

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF040616\
 Data File : BF086120.D
 Acq On : 7 Apr 2016 1:47
 Operator : UM/SJ
 Sample : H2166-01RE
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 L-P-C-SOIL-PILE1

Quant Time: Apr 07 03:44:57 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	114439	20.00	ng	-0.03
21) Naphthalene-d8	8.03	136	443923	20.00	ng	-0.03
38) Acenaphthene-d10	9.78	164	164802	20.00	ng	-0.03
63) Phenanthrene-d10	11.26	188	267219	20.00	ng	-0.03
75) Chrysene-d12	13.91	240	225990	20.00	ng	-0.02
86) Perylene-d12	15.31	264	144727	20.00	ng	-0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	925890	138.29	ng	-0.02
7) Phenol-d6	6.40	99	1234388	145.15	ng	-0.02
23) Nitrobenzene-d5	7.31	82	756362	100.48	ng	-0.03
41) 2,4,6-Tribromophenol	10.58	330	214123	138.43	ng	-0.02
44) 2-Fluorobiphenyl	9.10	172	1043455	105.27	ng	-0.03
78) Terphenyl-d14	12.85	244	820433	85.34	ng	-0.02

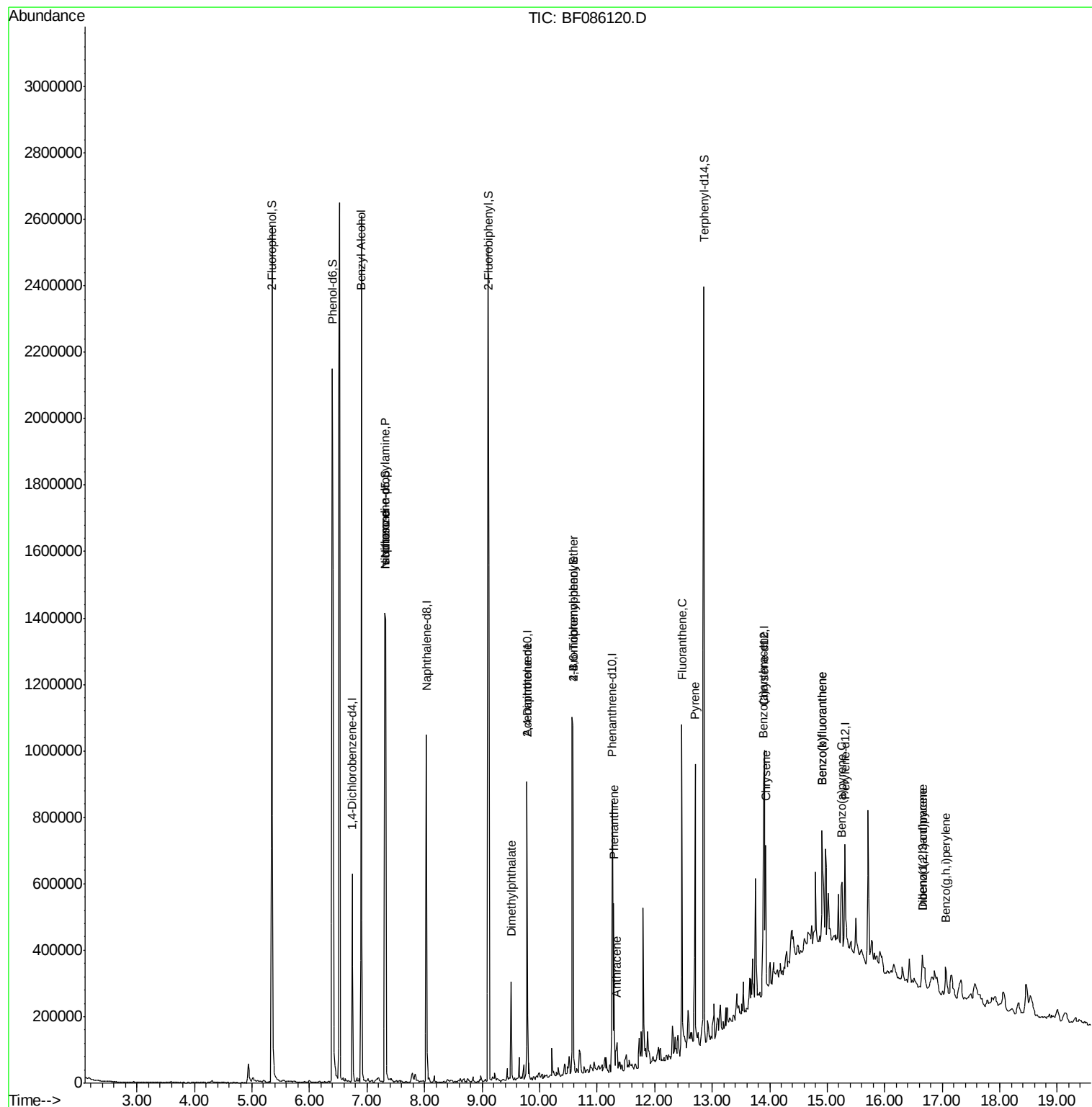
Target Compounds						Qvalue
15) Benzyl Alcohol	6.90	79	13288	2.42	ng	# 50
19) n-Nitroso-di-n-propylamine	7.31	70	97513	18.50	ng	# 80
25) Isophorone	7.31	82	713315	48.00	ng	# 68
49) Dimethylphthalate	9.50	163	106113	8.69	ng	99
56) 2,4-Dinitrotoluene	9.78	165	21417	6.56	ng	# 37
66) 4-Bromophenyl-phenylether	10.58	248	13123	4.81	ng	# 1
70) Phenanthrene	11.29	178	169887	11.65	ng	98
71) Anthracene	11.34	178	44988	2.95	ng	98
74) Fluoranthene	12.48	202	358614	23.65	ng	95
77) Pyrene	12.71	202	337871	21.22	ng	100
80) Benzo(a)anthracene	13.89	228	167311	12.56	ng	97
82) Chrysene	13.93	228	134284	10.46	ng	98
85) Indeno(1,2,3-cd)pyrene	16.66	276	65688	6.31	ng	95
87) Benzo(b)fluoranthene	14.91	252	233318	25.63	ng	97
88) Benzo(k)fluoranthene	14.91	252	233318	28.94	ng	# 94
89) Benzo(a)pyrene	15.25	252	109773	13.61	ng	97
90) Dibenzo(a,h)anthracene	16.66	278	19113	2.94	ng	# 73
91) Benzo(g,h,i)perylene	17.06	276	65209	10.38	ng	97

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

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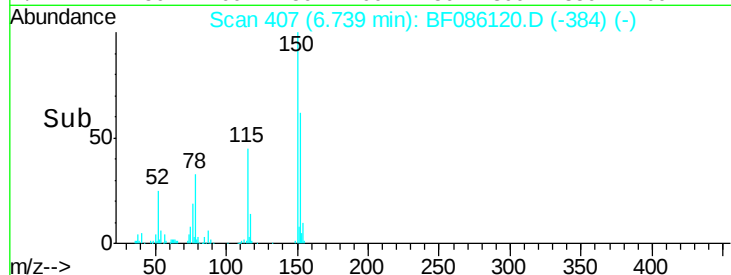
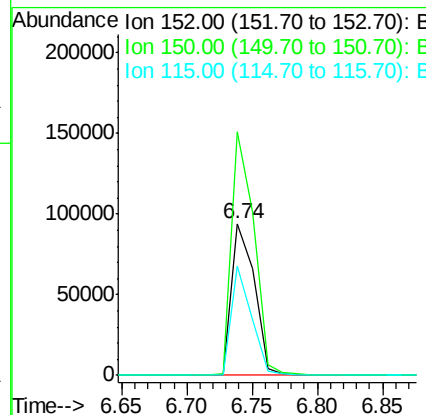
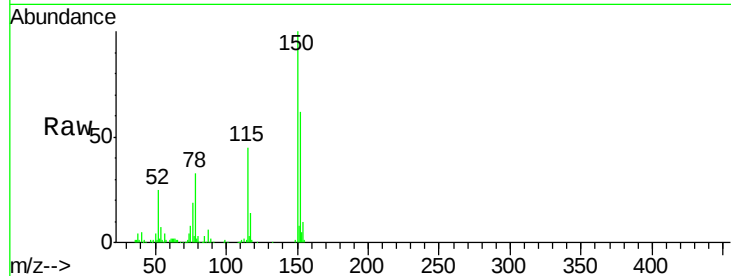


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.74 min Scan# 407
Delta R.T. -0.03 min
Lab File: BF086120.D
Acq: 7 Apr 2016 1:47

Instrument :
BNA_F
ClientSampleId :
L-P-C-SOIL-PILE1

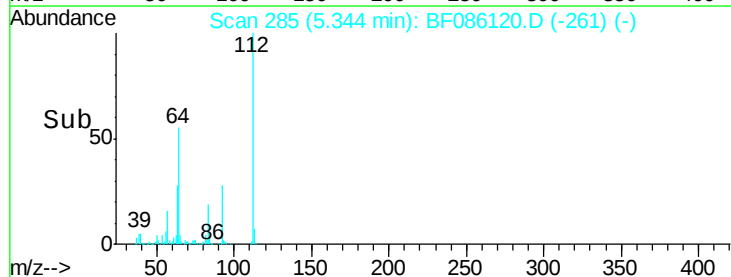
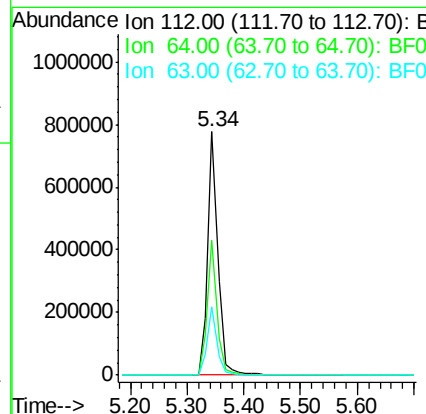
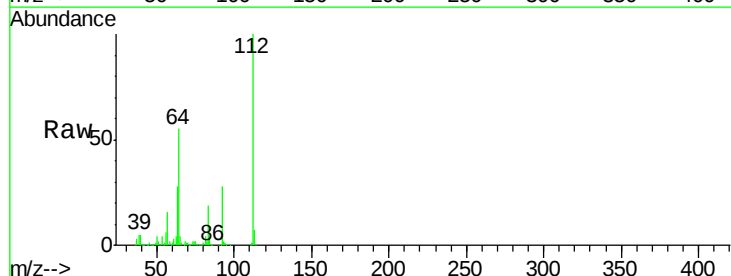
Tgt Ion	Ratio	Lower	Upper
152	100		
150	160.3	124.2	186.2
115	72.2	47.0	70.6



#5

2-Fluorophenol
Concen: 138.29 ng
RT: 5.34 min Scan# 285
Delta R.T. -0.02 min
Lab File: BF086120.D
Acq: 7 Apr 2016 1:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.3	39.9	59.9
63	28.0	20.2	30.2





#7

Phenol-d6

Concen: 145.15 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.02 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

Instrument :

BNA_F

ClientSampleId :

L-P-C-SOIL-PILE1

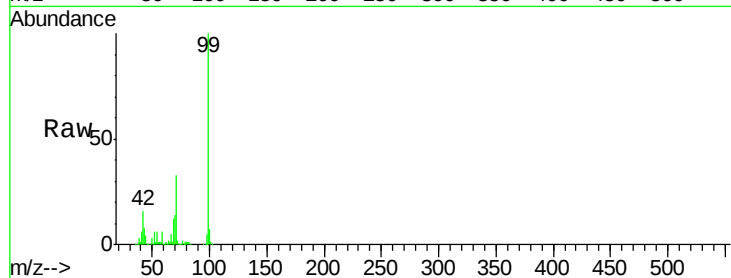
Tgt Ion: 99 Resp: 1234388

Ion Ratio Lower Upper

99 100

42 15.6 11.1 16.7

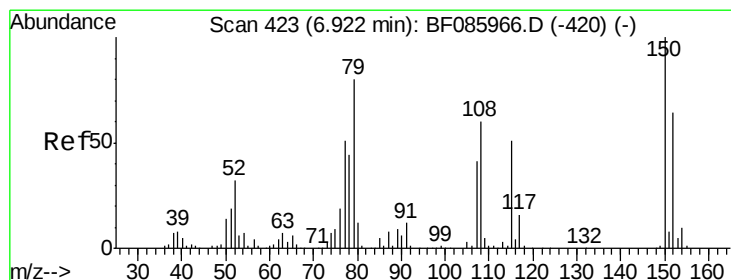
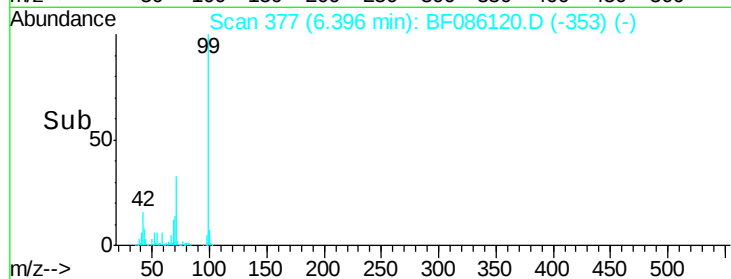
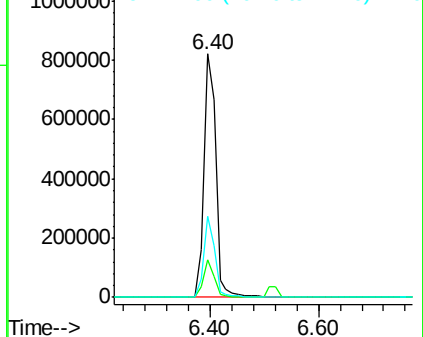
71 33.2 24.9 37.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#15

Benzyl Alcohol

Concen: 2.42 ng

RT: 6.90 min Scan# 421

Delta R.T. -0.02 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

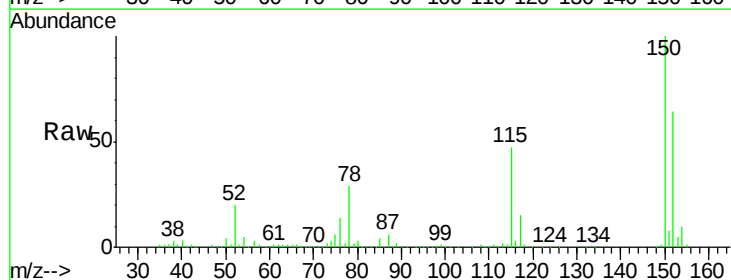
Tgt Ion: 79 Resp: 13288

Ion Ratio Lower Upper

79 100

108 31.0 61.8 92.6#

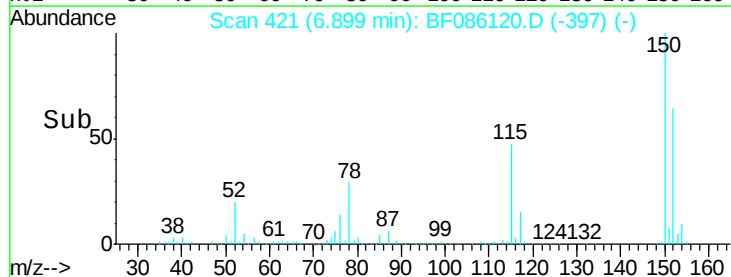
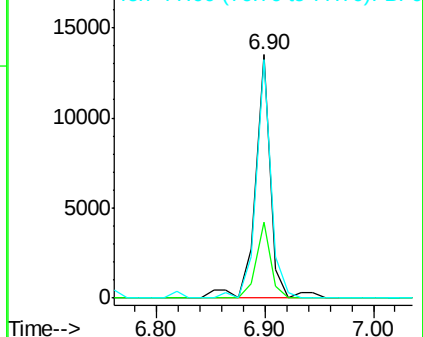
77 97.7 49.6 74.4#

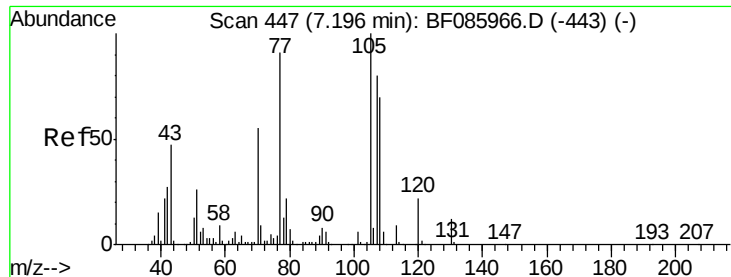


Abundance Ion 79.00 (78.70 to 79.70): BF0

Ion 108.00 (107.70 to 108.70): BF0

Ion 77.00 (76.70 to 77.70): BF0

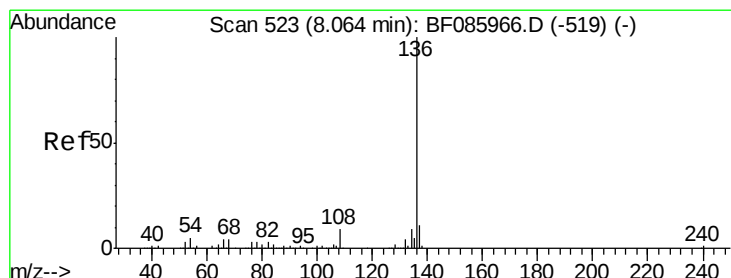
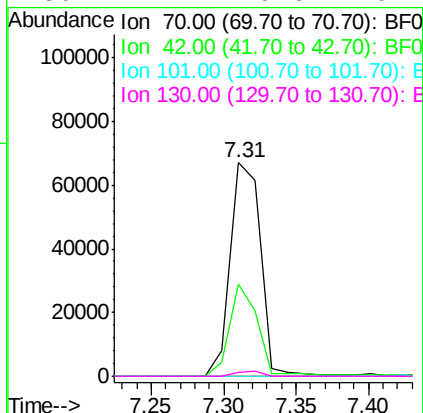
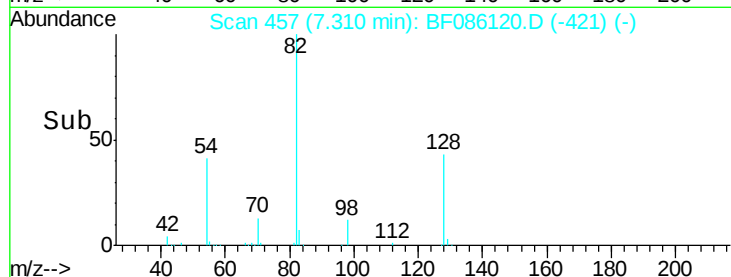
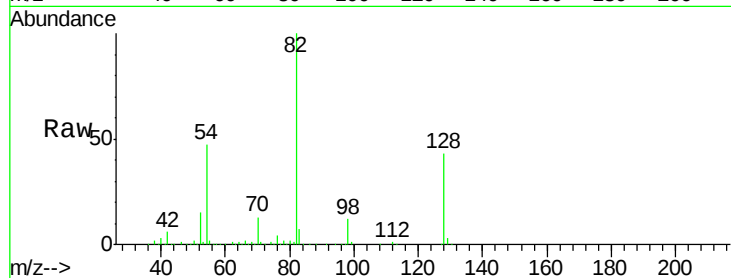




#19
n-Nitroso-di-n-propylamine
Concen: 18.50 ng
RT: 7.31 min Scan# 457
Delta R.T. 0.11 min
Lab File: BF086120.D
Acq: 7 Apr 2016 1:47

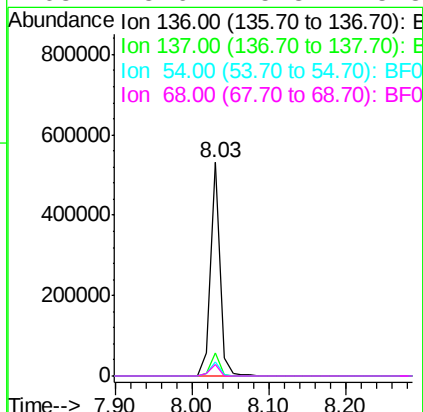
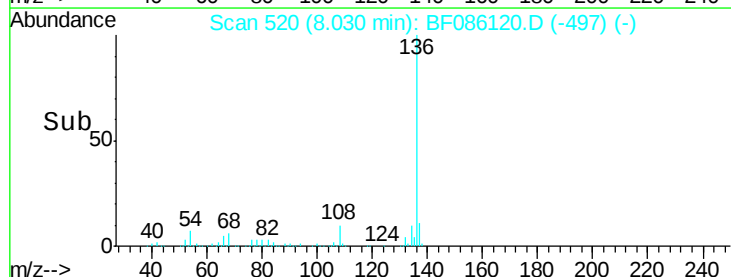
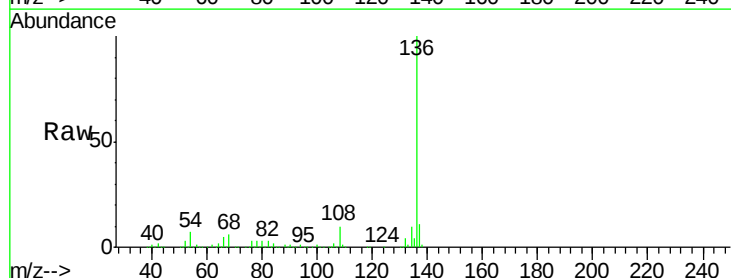
Instrument :
BNA_F
ClientSampleId :
L-P-C-SOIL-PILE1

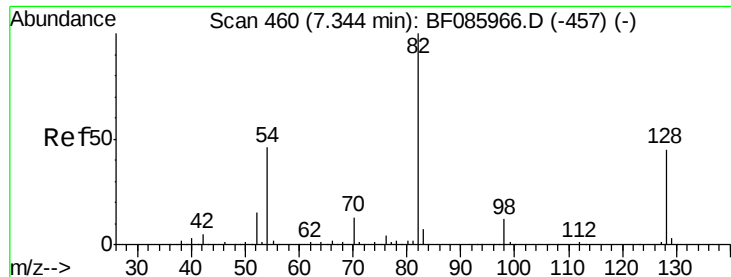
Tgt Ion: 70 Resp: 97513
Ion Ratio Lower Upper
70 100
42 43.1 37.1 55.7
101 0.0 8.6 12.8#
130 2.1 19.6 29.4#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.03 min Scan# 520
Delta R.T. -0.03 min
Lab File: BF086120.D
Acq: 7 Apr 2016 1:47

Tgt Ion: 136 Resp: 443923
Ion Ratio Lower Upper
136 100
137 11.0 9.1 13.7
54 6.6 7.4 11.0#
68 5.6 5.8 8.8#

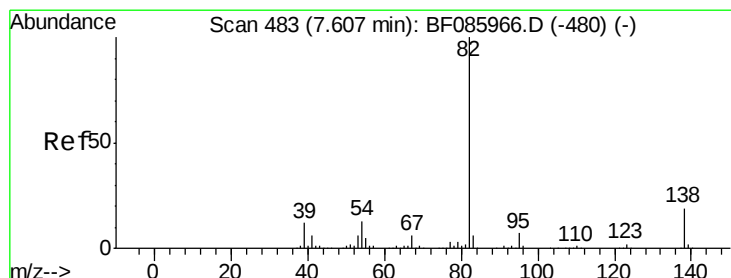
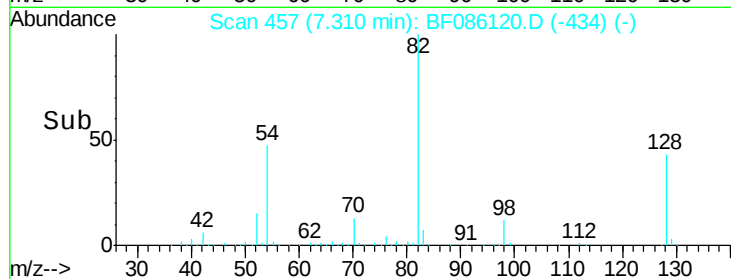
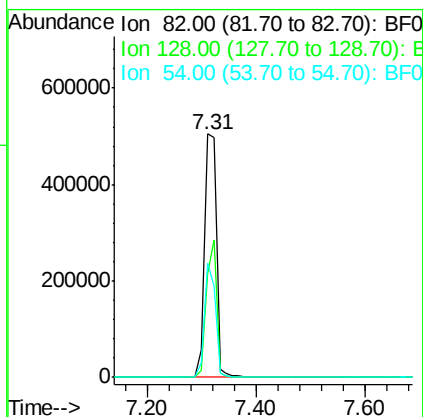
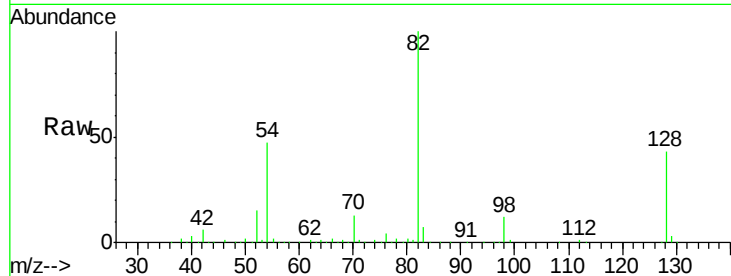




#23
 Nitrobenzene-d5
 Concen: 100.48 ng
 RT: 7.31 min Scan# 457
 Delta R.T. -0.03 min
 Lab File: BF086120.D
 Acq: 7 Apr 2016 1:47

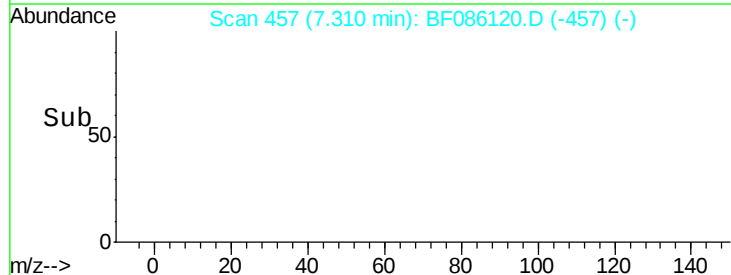
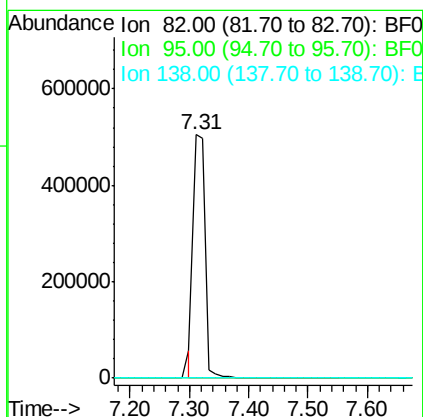
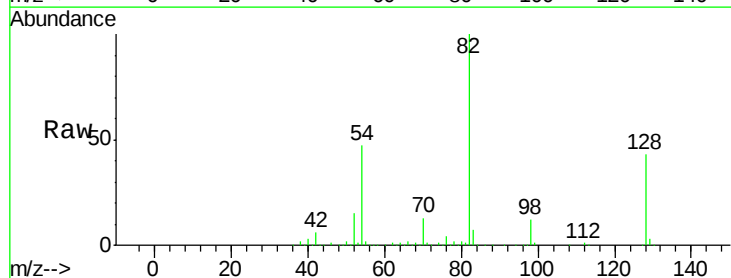
Instrument :
 BNA_F
 ClientSampleId :
 L-P-C-SOIL-PILE1

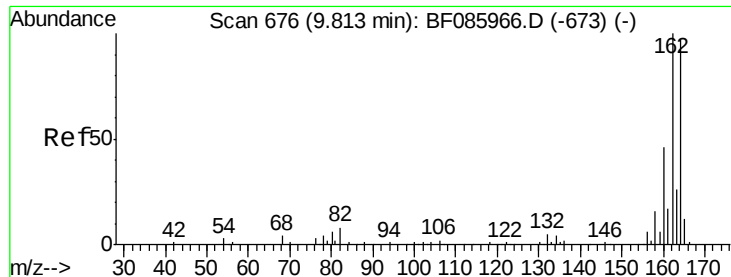
Tgt Ion: 82 Resp: 756362
 Ion Ratio Lower Upper
 82 100
 128 43.0 41.8 62.8
 54 47.1 33.4 50.0



#25
 Isophorone
 Concen: 48.00 ng
 RT: 7.31 min Scan# 457
 Delta R.T. -0.30 min
 Lab File: BF086120.D
 Acq: 7 Apr 2016 1:47

Tgt Ion: 82 Resp: 713315
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.4 8.2#
 138 0.0 12.9 19.3#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.03 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

Instrument :

BNA_F

ClientSampleId :

L-P-C-SOIL-PILE1

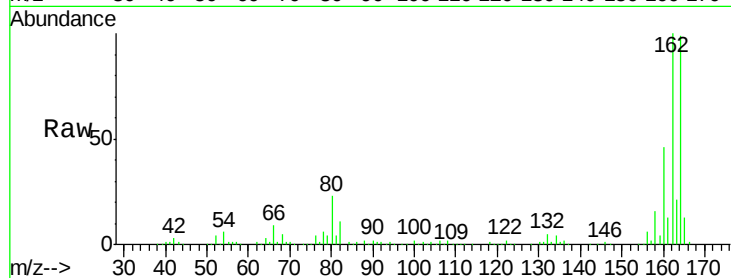
Tgt Ion:164 Resp: 164802

Ion Ratio Lower Upper

164 100

162 101.0 82.1 123.1

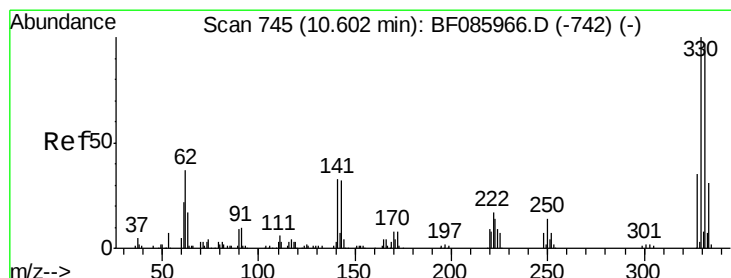
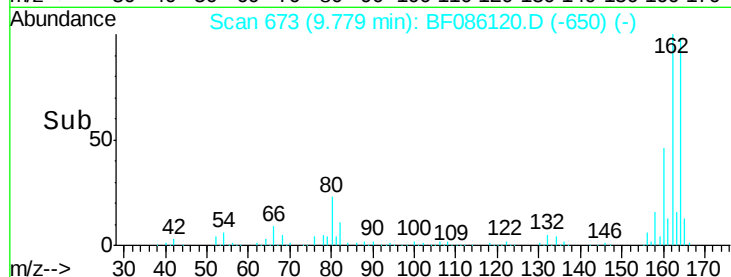
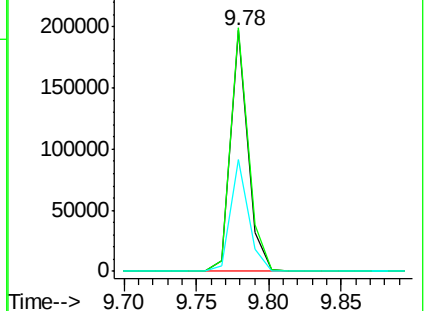
160 46.6 37.4 56.2



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



#41

2,4,6-Tribromophenol

Concen: 138.43 ng

RT: 10.58 min Scan# 743

Delta R.T. -0.02 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

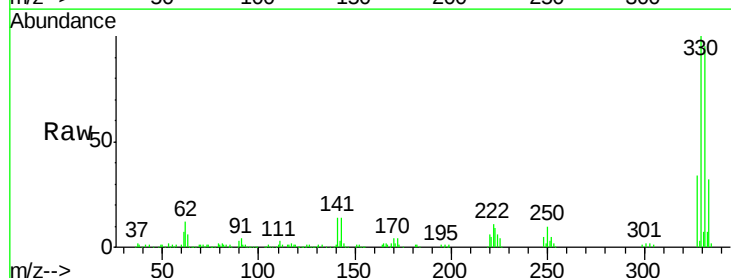
Tgt Ion:330 Resp: 214123

Ion Ratio Lower Upper

330 100

332 95.4 78.2 117.2

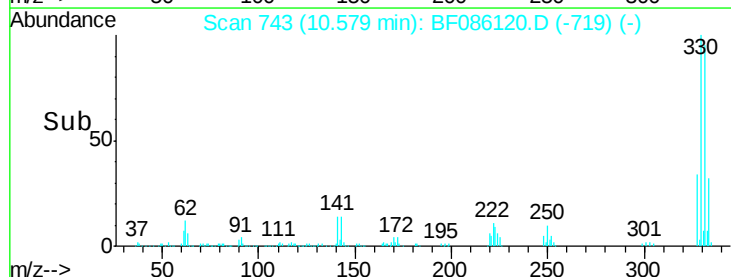
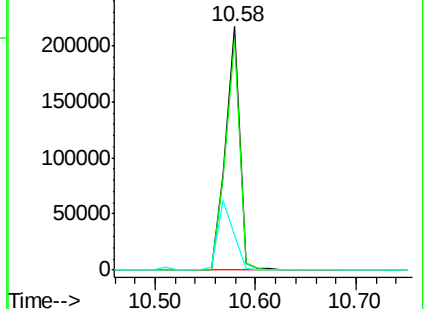
141 31.6 31.5 47.3

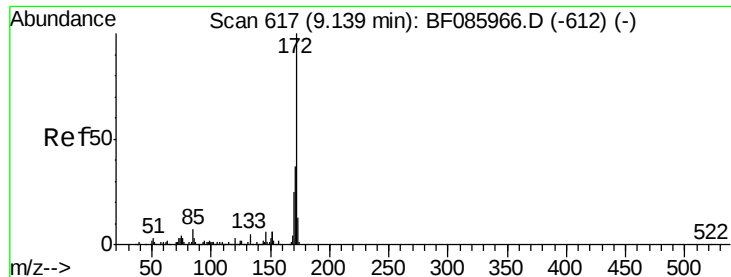


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 105.27 ng

RT: 9.10 min Scan# 614

Delta R.T. -0.03 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

Instrument :

BNA_F

ClientSampleId :

L-P-C-SOIL-PILE1

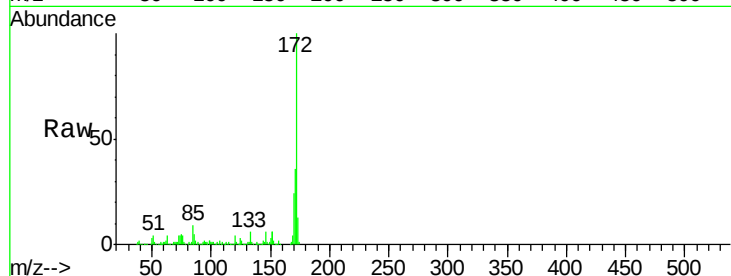
Tgt Ion:172 Resp: 1043455

Ion Ratio Lower Upper

172 100

171 36.0 29.4 44.2

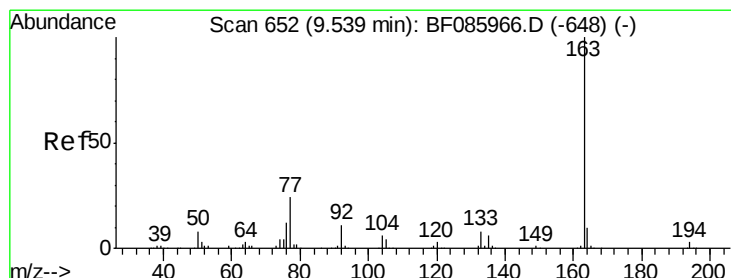
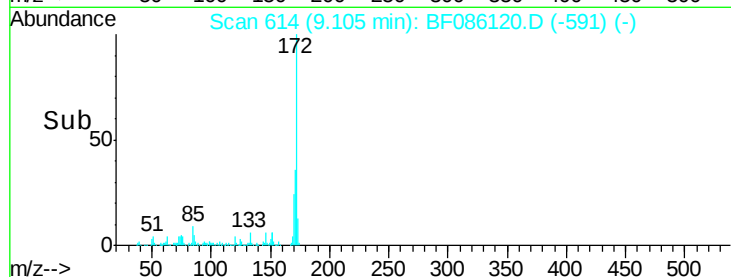
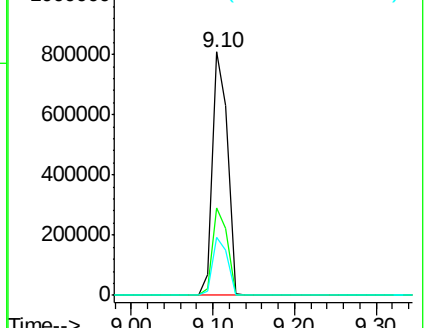
170 24.1 19.8 29.6



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



#49

Dimethylphthalate

Concen: 8.69 ng

RT: 9.50 min Scan# 649

Delta R.T. -0.03 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

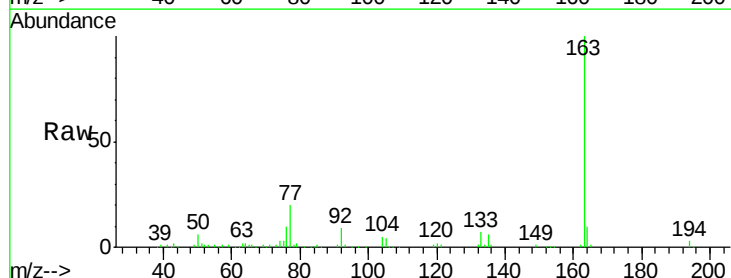
Tgt Ion:163 Resp: 106113

Ion Ratio Lower Upper

163 100

194 3.2 2.9 4.3

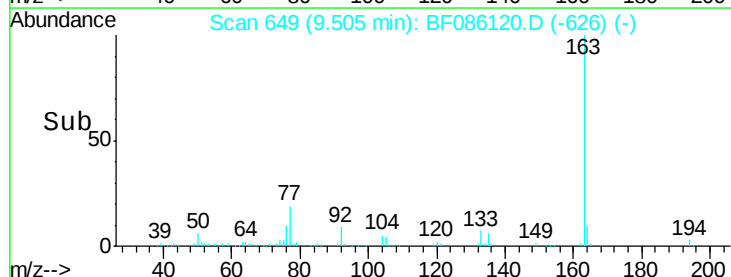
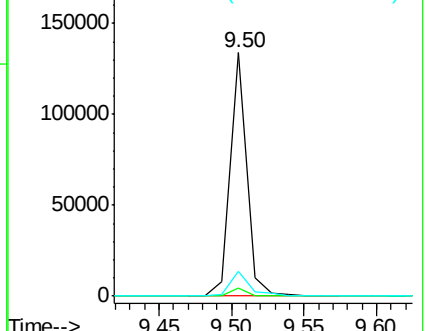
164 10.2 8.3 12.5

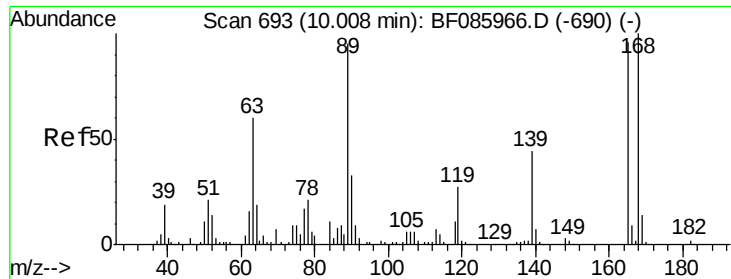


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

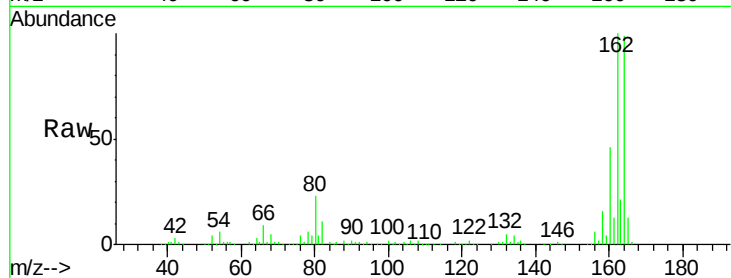




#56
 2,4-Dinitrotoluene
 Concen: 6.56 ng
 RT: 9.78 min Scan# 673
 Delta R.T. -0.23 min
 Lab File: BF086120.D
 Acq: 7 Apr 2016 1:47

Instrument :
 BNA_F
 ClientSampleId :
 L-P-C-SOIL-PILE1

Tgt Ion:	165	Resp:	21417
Ion	Ratio	Lower	Upper
165	100		
63	1.5	24.9	37.3#
89	1.6	41.0	61.6#
182	0.0	2.1	3.1#

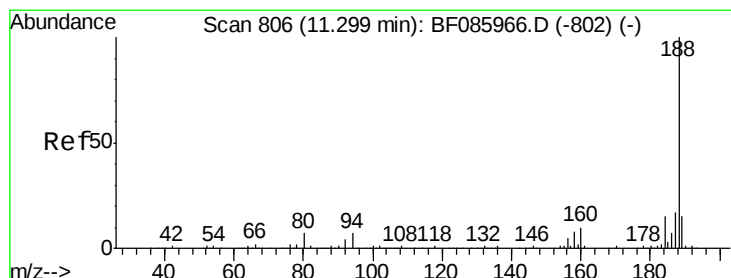
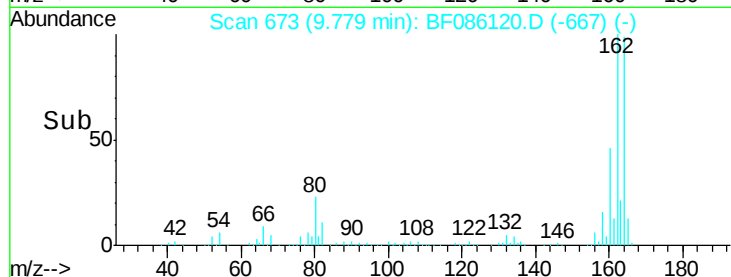
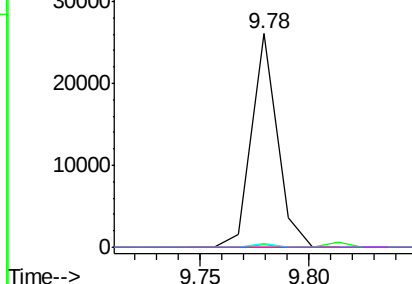


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

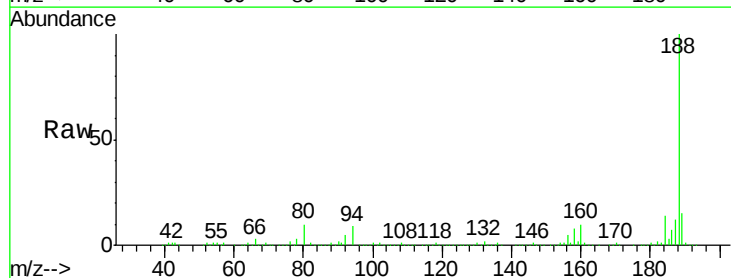
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.26 min Scan# 803
 Delta R.T. -0.03 min
 Lab File: BF086120.D
 Acq: 7 Apr 2016 1:47

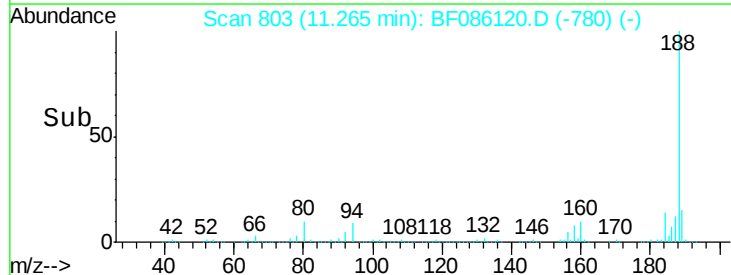
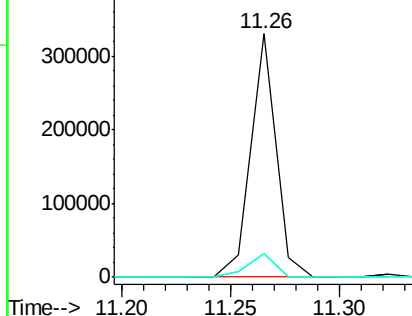
Tgt Ion:	188	Resp:	267219
Ion	Ratio	Lower	Upper
188	100		
94	9.4	5.4	8.0#
80	9.7	5.5	8.3#

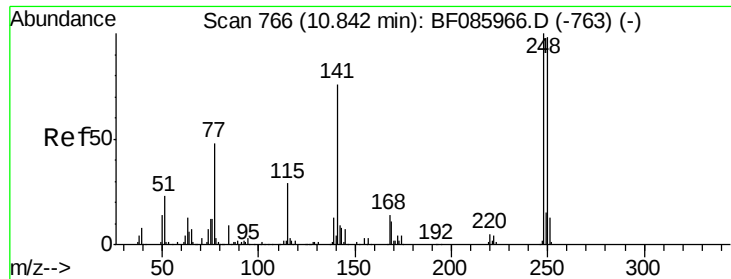


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

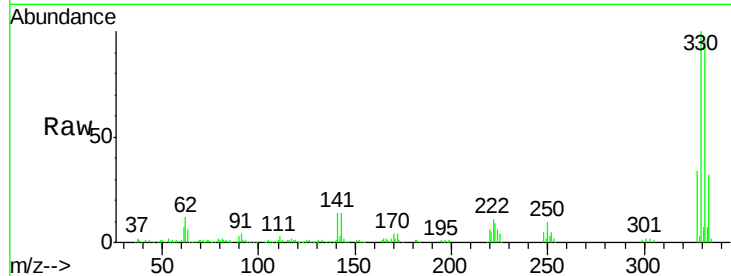




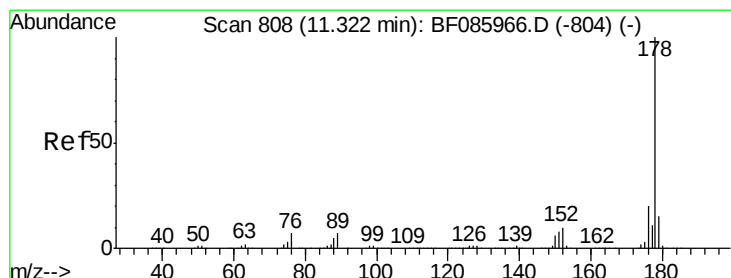
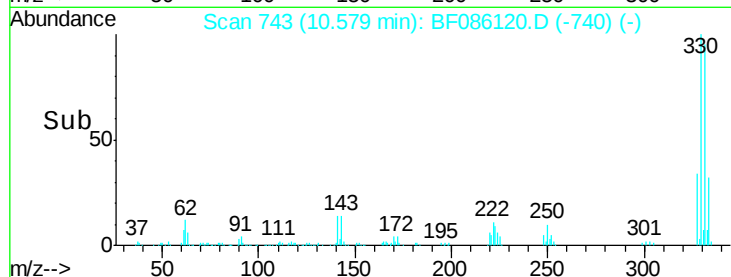
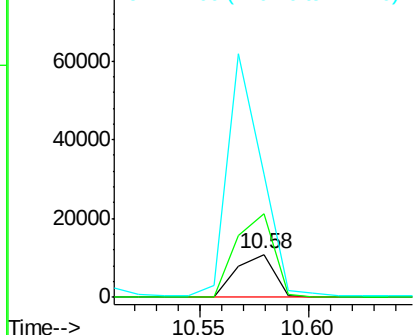
#66
 4-Bromophenyl-phenylether
 Concen: 4.81 ng
 RT: 10.58 min Scan# 743
 Delta R.T. -0.26 min
 Lab File: BF086120.D
 Acq: 7 Apr 2016 1:47

Instrument :
 BNA_F
 ClientSampleId :
 L-P-C-SOIL-PILE1

Tgt Ion:248 Resp: 13123
 Ion Ratio Lower Upper
 248 100
 250 195.6 77.4 116.0#
 141 287.8 63.6 95.4#

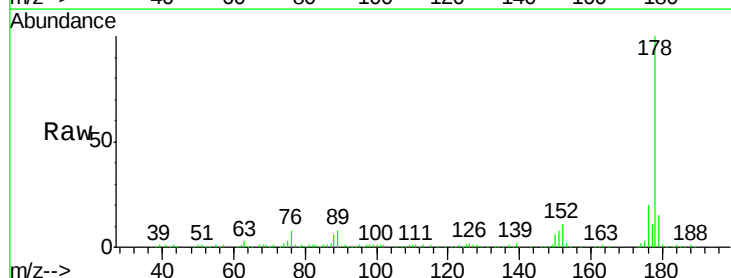


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

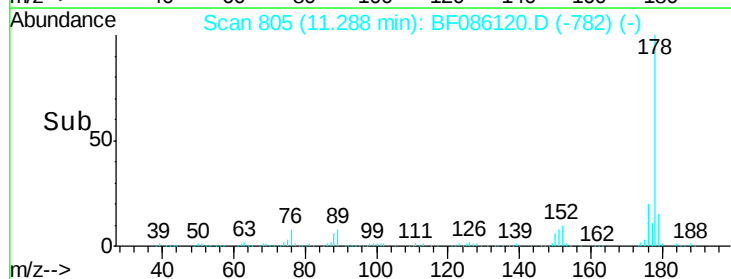
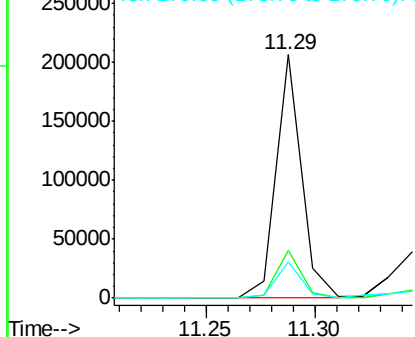


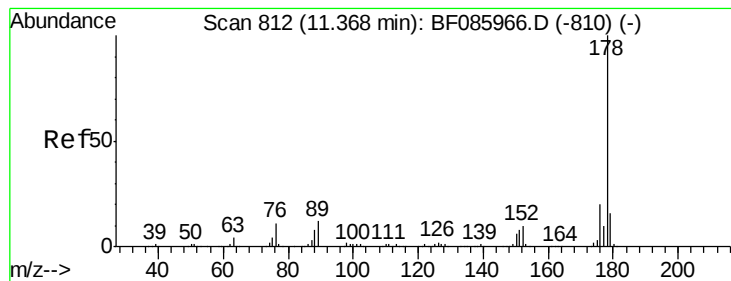
#70
 Phenanthrene
 Concen: 11.65 ng
 RT: 11.29 min Scan# 805
 Delta R.T. -0.03 min
 Lab File: BF086120.D
 Acq: 7 Apr 2016 1:47

Tgt Ion:178 Resp: 169887
 Ion Ratio Lower Upper
 178 100
 176 19.7 16.3 24.5
 179 14.9 12.6 18.8



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





#71

Anthracene

Concen: 2.95 ng

RT: 11.34 min Scan# 810

Delta R.T. -0.02 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

Instrument :

BNA_F

ClientSampleId :

L-P-C-SOIL-PILE1

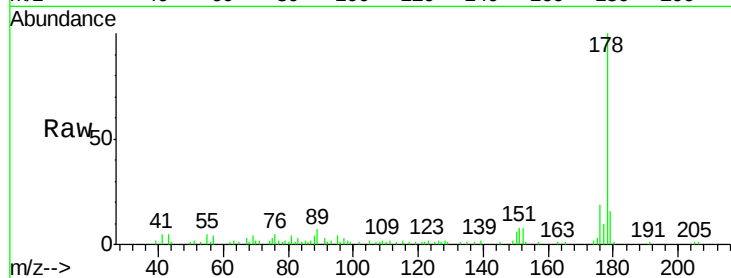
Tgt Ion:178 Resp: 44988

Ion Ratio Lower Upper

178 100

176 18.7 15.9 23.9

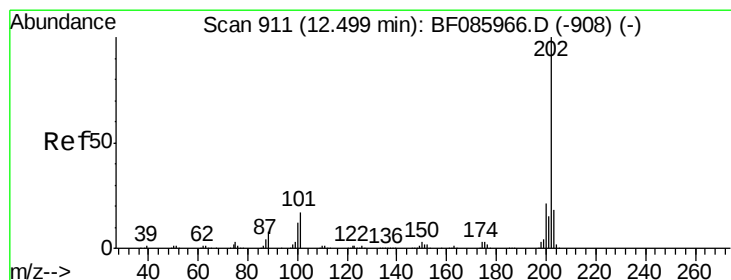
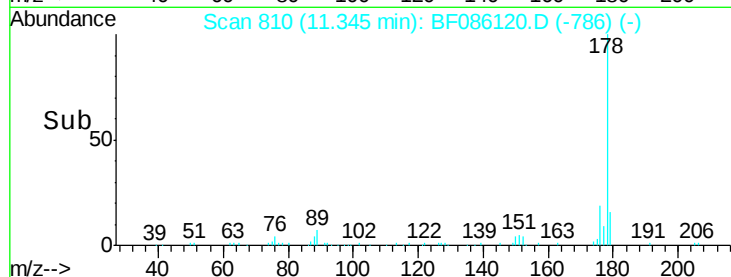
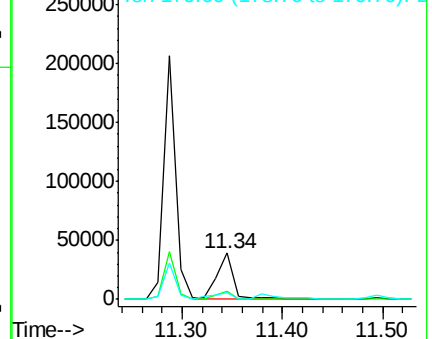
179 15.5 13.0 19.4



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



#74

Fluoranthene

Concen: 23.65 ng

RT: 12.48 min Scan# 909

Delta R.T. -0.02 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

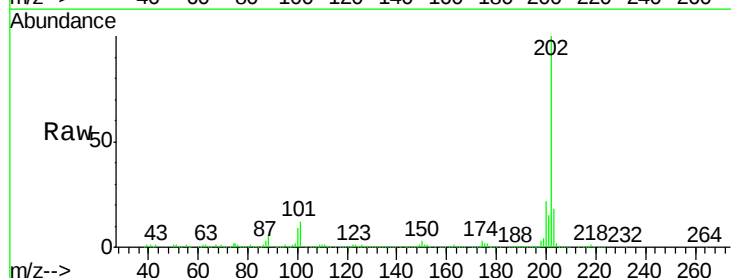
Tgt Ion:202 Resp: 358614

Ion Ratio Lower Upper

202 100

101 12.0 0.0 36.6

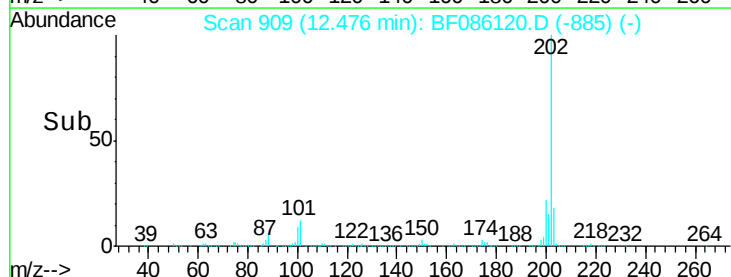
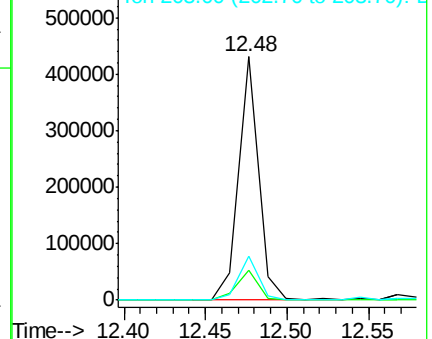
203 17.9 0.0 38.1

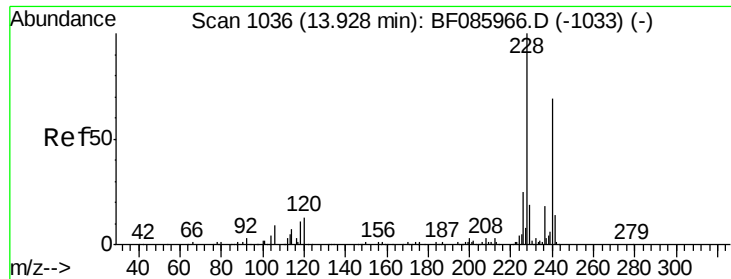


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

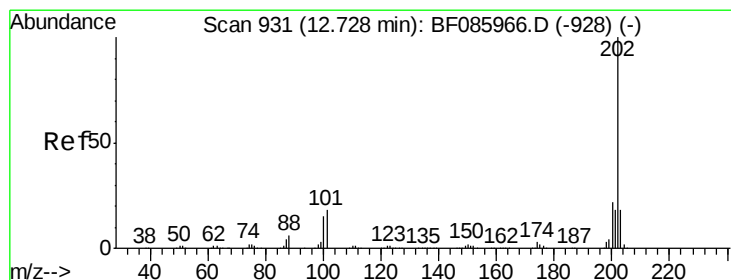
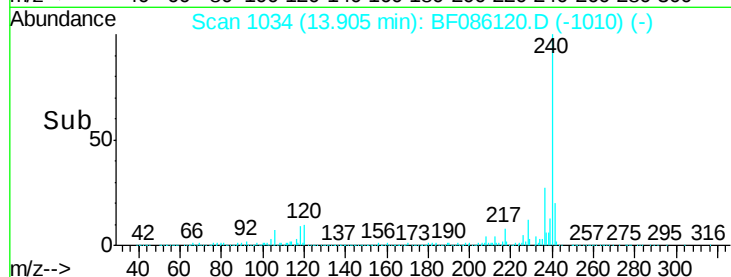
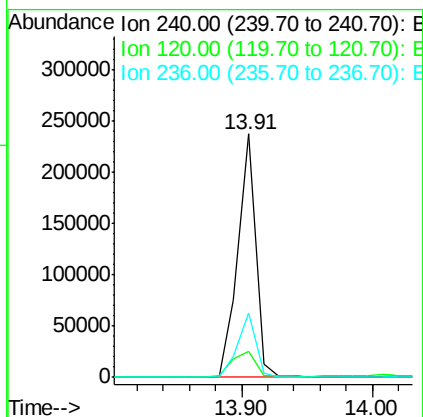
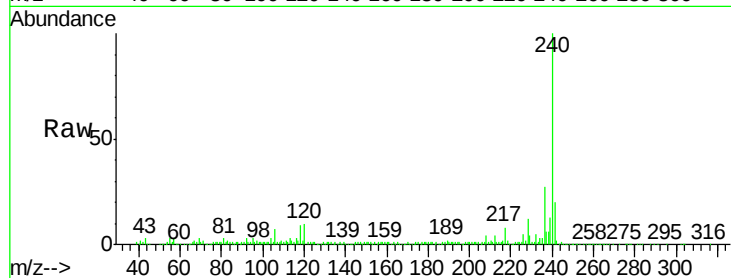




#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.91 min Scan# 1034
Delta R.T. -0.02 min
Lab File: BF086120.D
Acq: 7 Apr 2016 1:47

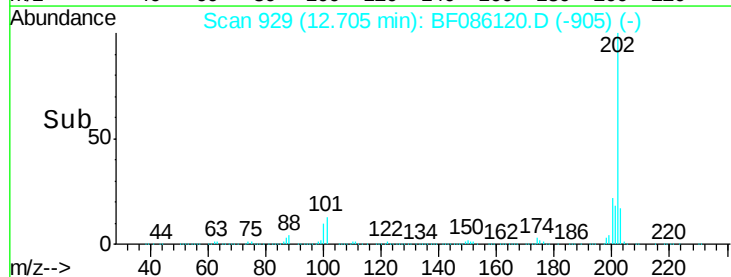
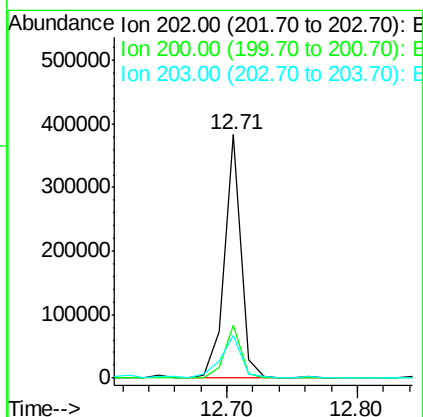
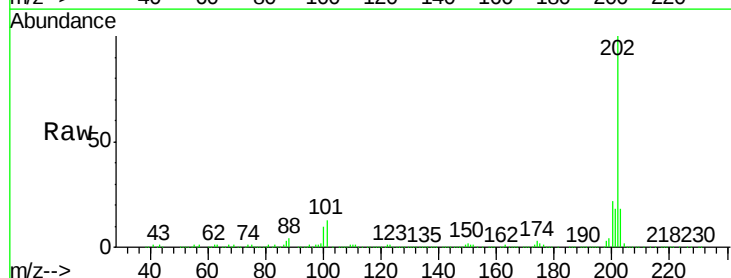
Instrument :
BNA_F
ClientSampleId :
L-P-C-SOIL-PILE1

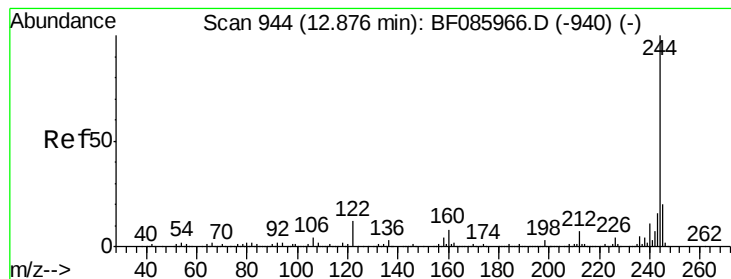
Tgt Ion:240 Resp: 225990
Ion Ratio Lower Upper
240 100
120 10.4 13.8 20.8#
236 26.7 20.6 30.8



#77
Pyrene
Concen: 21.22 ng
RT: 12.71 min Scan# 929
Delta R.T. -0.02 min
Lab File: BF086120.D
Acq: 7 Apr 2016 1:47

Tgt Ion:202 Resp: 337871
Ion Ratio Lower Upper
202 100
200 21.9 17.6 26.4
203 17.6 14.0 21.0





#78

Terphenyl-d14

Concen: 85.34 ng

RT: 12.85 min Scan# 942

Delta R.T. -0.02 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

Instrument :

BNA_F

ClientSampleId :

L-P-C-SOIL-PILE1

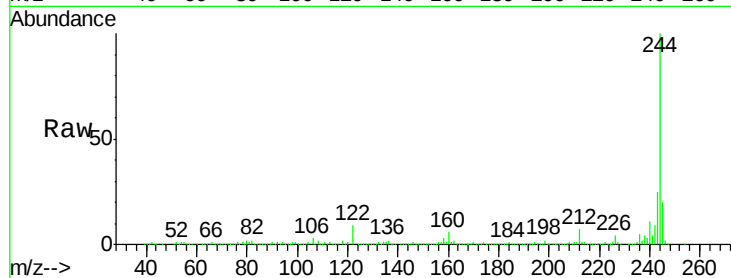
Tgt Ion:244 Resp: 820433

Ion Ratio Lower Upper

244 100

212 6.9 6.1 9.1

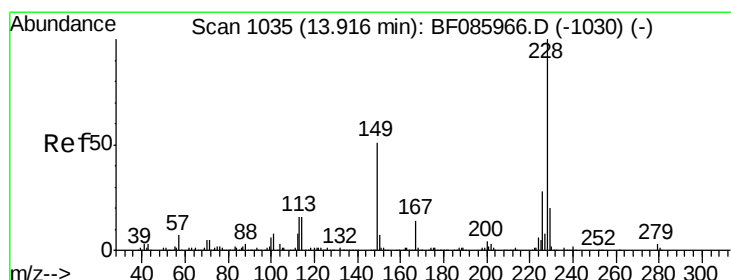
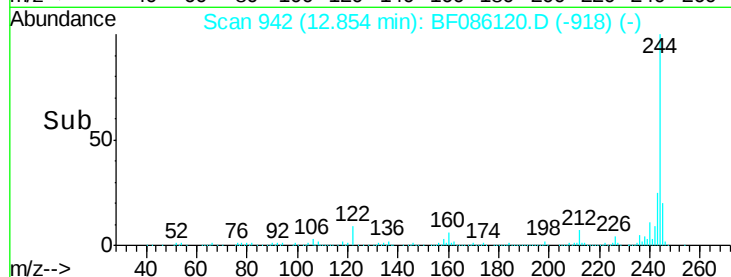
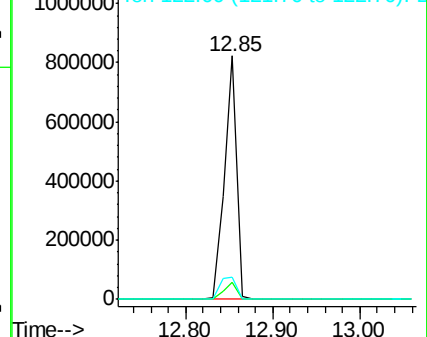
122 9.0 10.2 15.4#



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



#80

Benzo(a)anthracene

Concen: 12.56 ng

RT: 13.89 min Scan# 1033

Delta R.T. -0.02 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

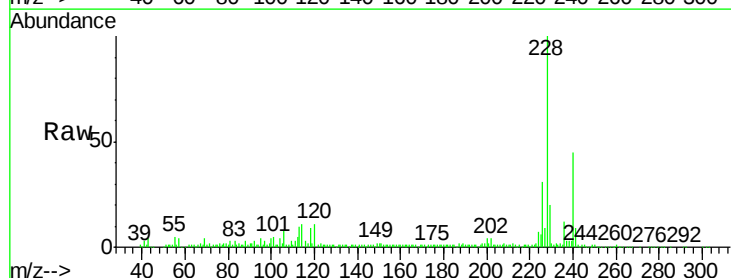
Tgt Ion:228 Resp: 167311

Ion Ratio Lower Upper

228 100

226 30.7 22.1 33.1

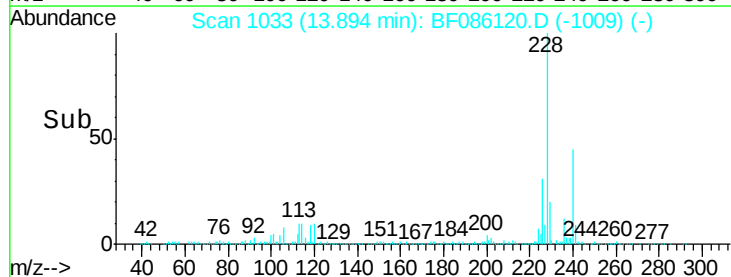
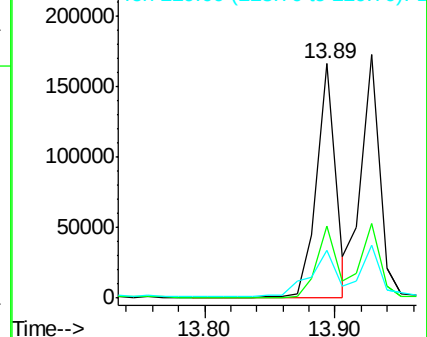
229 20.3 16.2 24.4

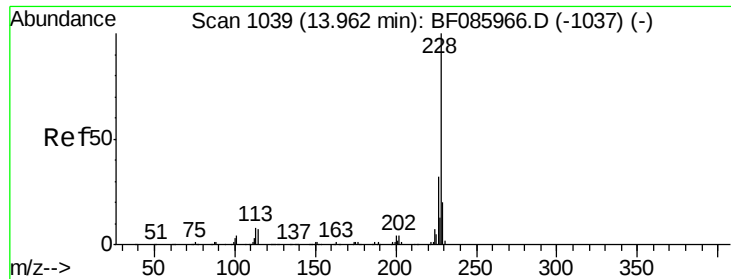


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 10.46 ng

RT: 13.93 min Scan# 1036

Delta R.T. -0.03 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

Instrument :

BNA_F

ClientSampleId :

L-P-C-SOIL-PILE1

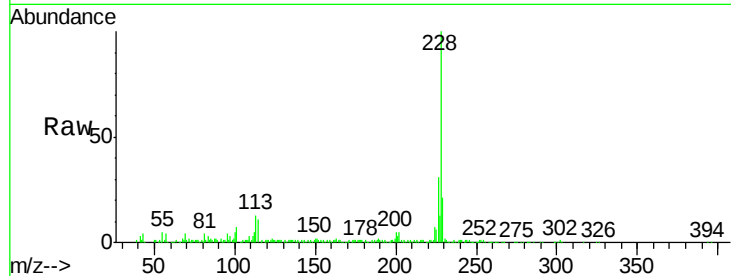
Tgt Ion:228 Resp: 134284

Ion Ratio Lower Upper

228 100

226 30.9 25.0 37.6

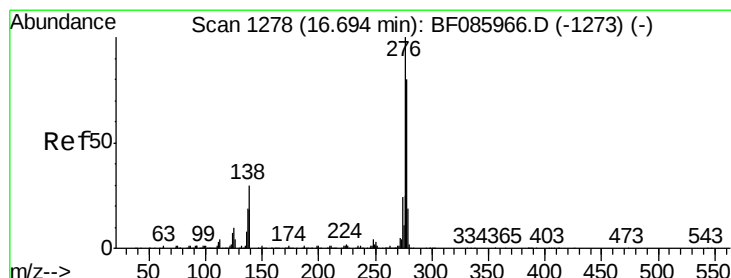
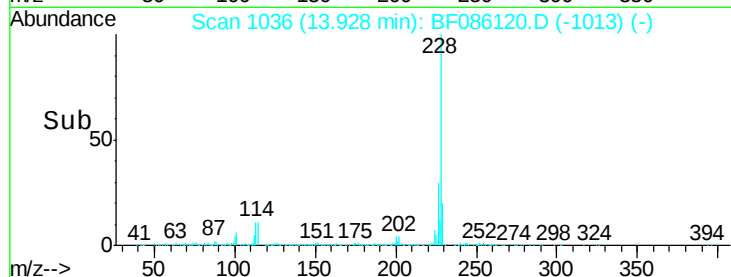
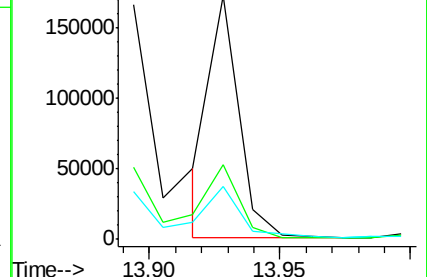
229 21.5 15.7 23.5



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.31 ng

RT: 16.66 min Scan# 1275

Delta R.T. -0.03 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

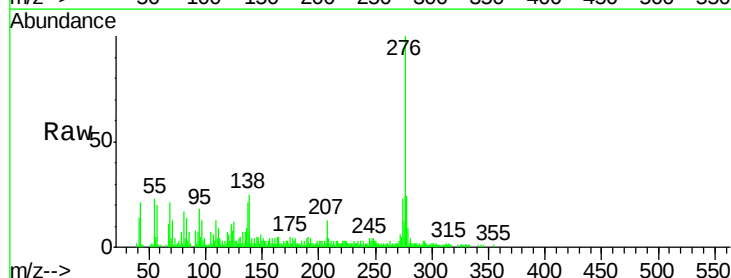
Tgt Ion:276 Resp: 65688

Ion Ratio Lower Upper

276 100

138 27.1 24.2 36.4

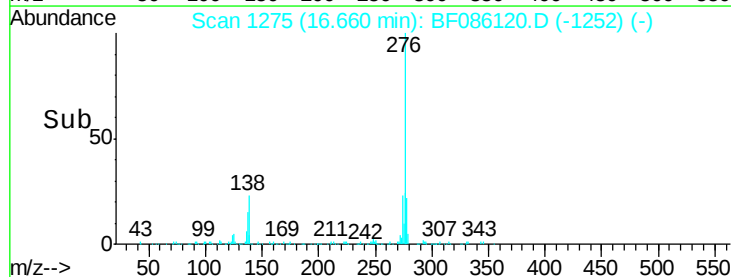
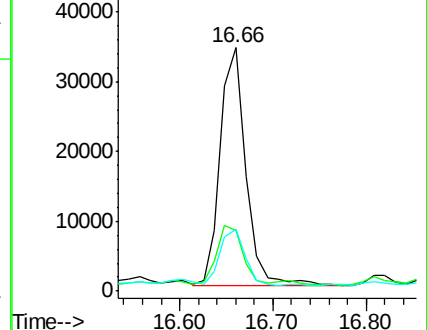
277 22.8 20.0 30.0

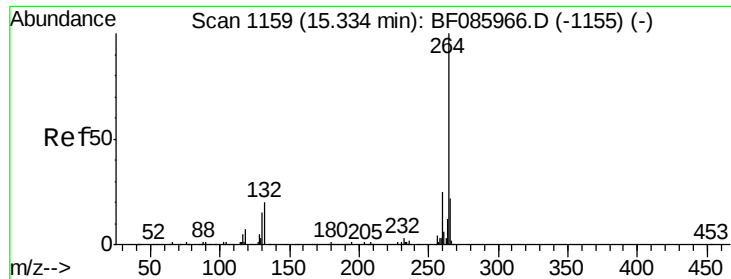


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



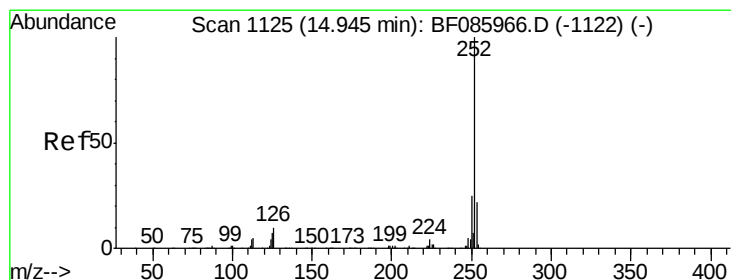
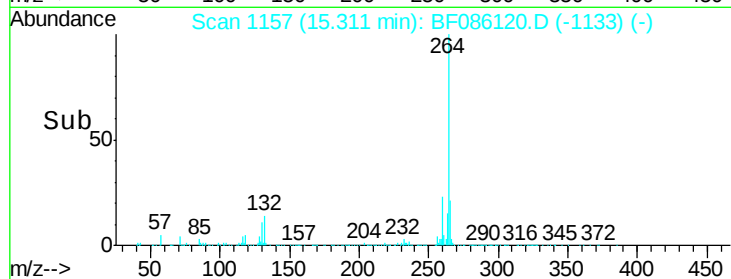
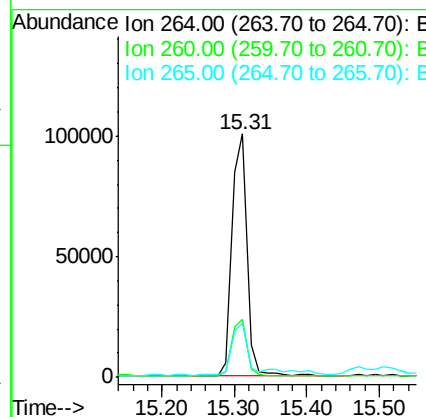
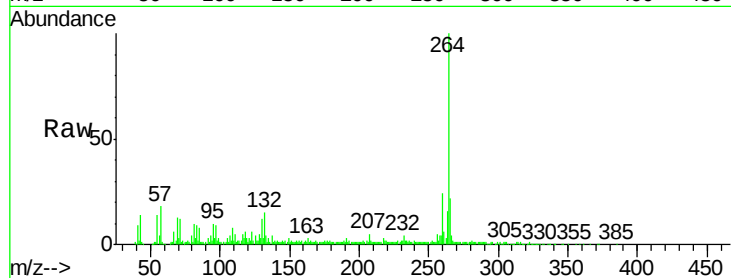


#86
Perylene-d12
Concen: 20.00 ng
RT: 15.31 min Scan# 1157
Delta R.T. -0.02 min
Lab File: BF086120.D
Acq: 7 Apr 2016 1:47

Instrument :
BNA_F
ClientSampleId :
L-P-C-SOIL-PILE1

Tgt Ion: 264 Resp: 144727

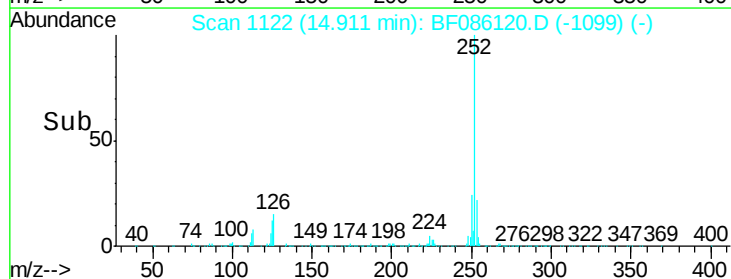
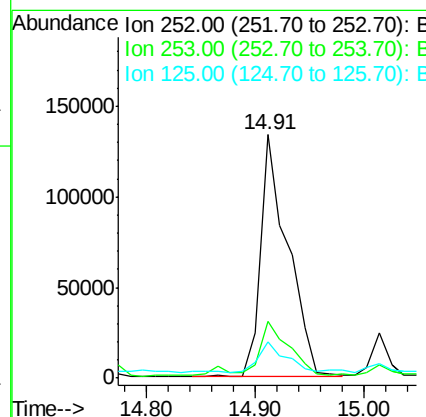
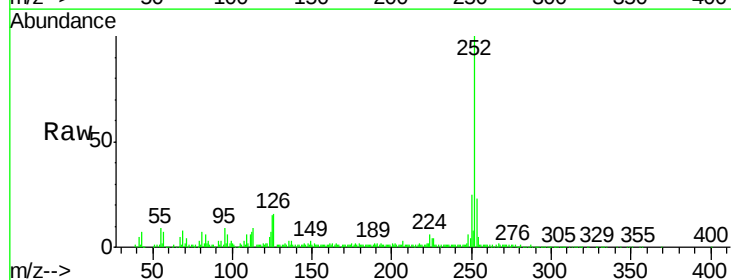
Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.2
265	22.1	17.2	25.8

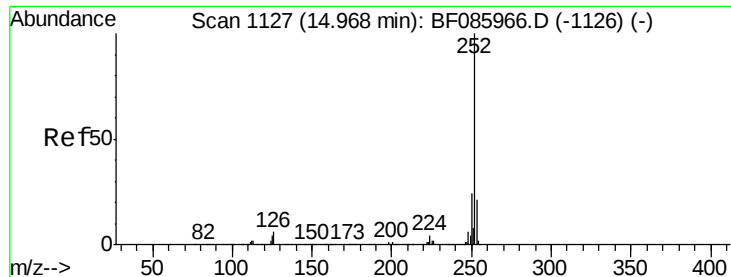


#87
Benzo(b)fluoranthene
Concen: 25.63 ng
RT: 14.91 min Scan# 1122
Delta R.T. -0.03 min
Lab File: BF086120.D
Acq: 7 Apr 2016 1:47

Tgt Ion: 252 Resp: 233318

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.6	26.4
125	14.8	10.3	15.5

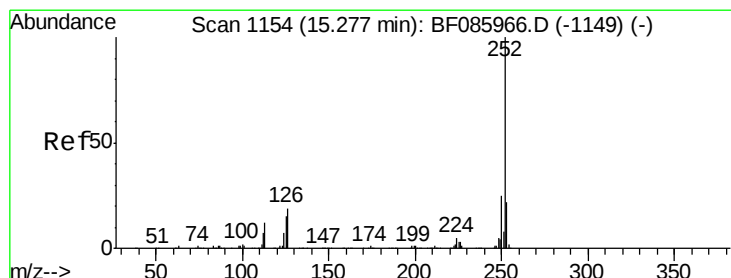
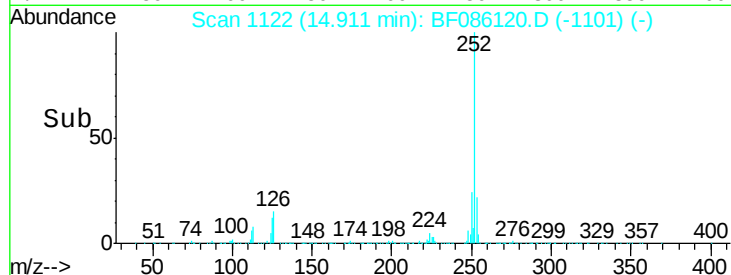
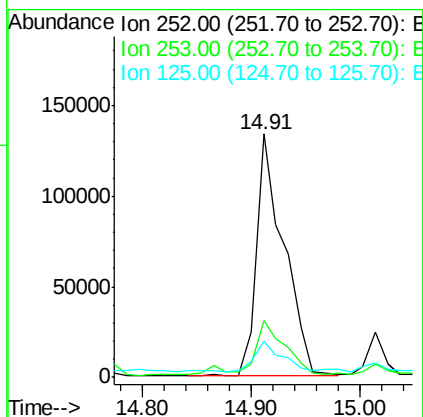
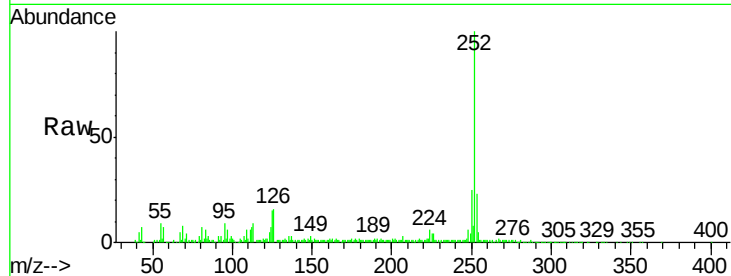




#88
Benzo(k)fluoranthene
Concen: 28.94 ng
RT: 14.91 min Scan# 1127
Delta R.T. -0.06 min
Lab File: BF086120.D
Acq: 7 Apr 2016 1:47

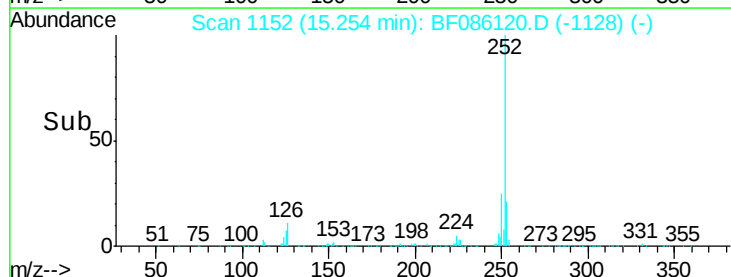
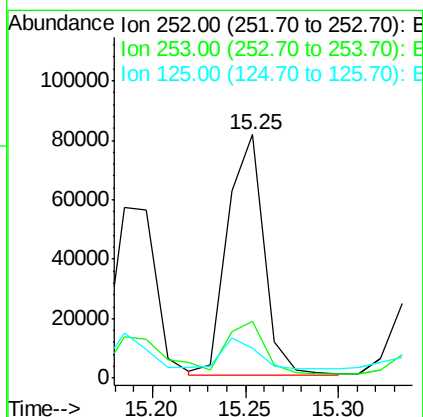
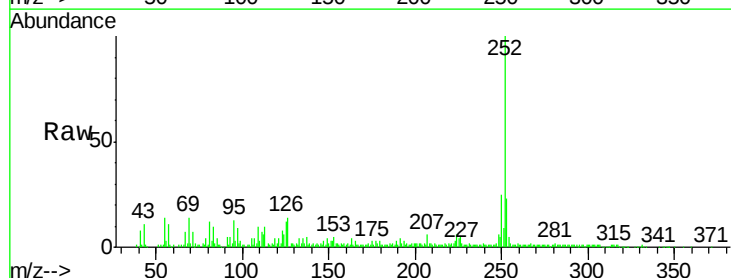
Instrument :
BNA_F
ClientSampleId :
L-P-C-SOIL-PILE1

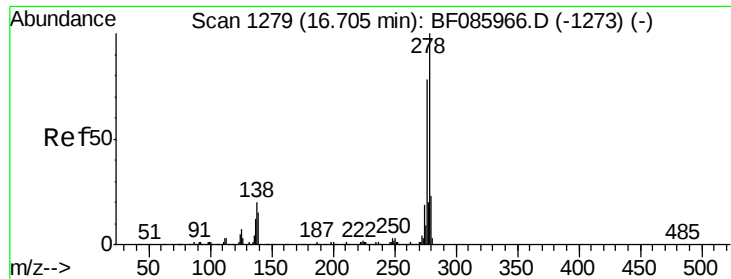
Tgt Ion:252 Resp: 233318
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.6
125 14.8 7.7 11.5#



#89
Benzo(a)pyrene
Concen: 13.61 ng
RT: 15.25 min Scan# 1152
Delta R.T. -0.02 min
Lab File: BF086120.D
Acq: 7 Apr 2016 1:47

Tgt Ion:252 Resp: 109773
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.0
125 12.3 10.3 15.5





#90

Dibenzo(a,h)anthracene

Concen: 2.94 ng

RT: 16.66 min Scan# 1275

Delta R.T. -0.05 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

Instrument :

BNA_F

ClientSampleId :

L-P-C-SOIL-PILE1

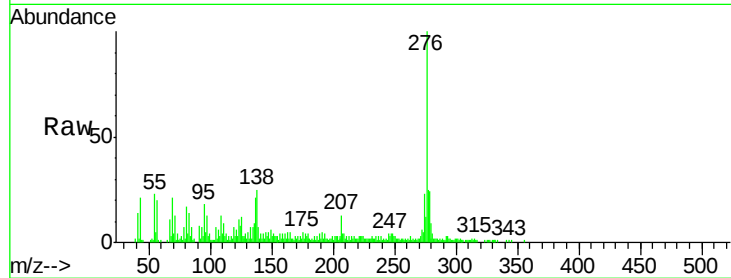
Tgt Ion:278 Resp: 19113

Ion Ratio Lower Upper

278 100

139 31.1 14.4 21.6#

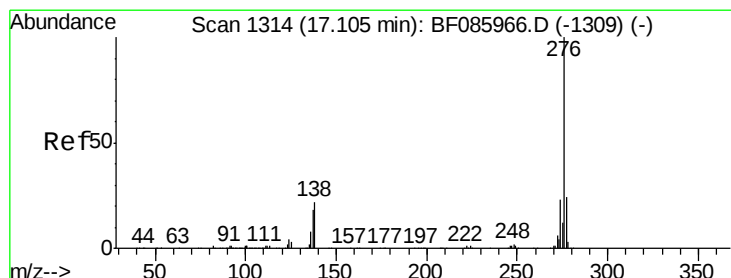
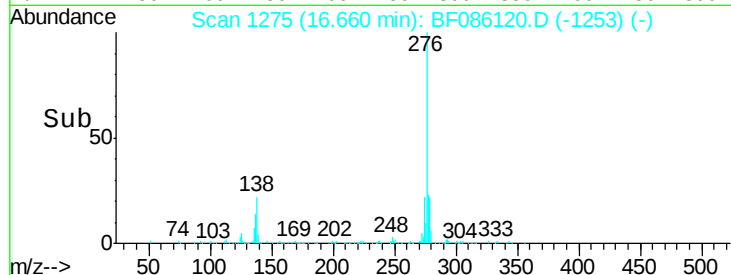
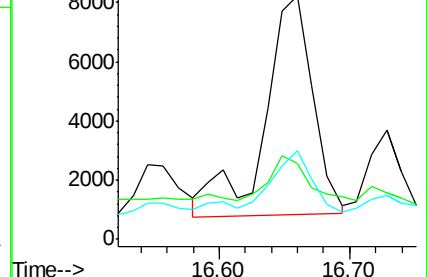
279 36.5 19.1 28.7#



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



#91

Benzo(g,h,i)perylene

Concen: 10.38 ng

RT: 17.06 min Scan# 1310

Delta R.T. -0.05 min

Lab File: BF086120.D

Acq: 7 Apr 2016 1:47

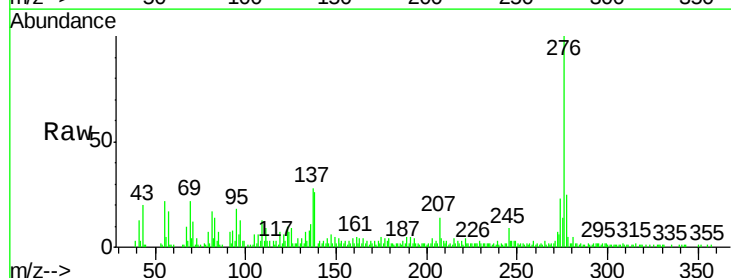
Tgt Ion:276 Resp: 65209

Ion Ratio Lower Upper

276 100

277 24.8 18.8 28.2

138 26.4 22.6 34.0



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

