

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091715\
 Data File : BF081690.D
 Acq On : 17 Sep 2015 21:57
 Operator : UM/IZ
 Sample : G3689-01RE
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIME-TOPSOILRE

Quant Time: Sep 18 00:57:02 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF090115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 15 14:03:59 2015
 Response via : Initial Calibration

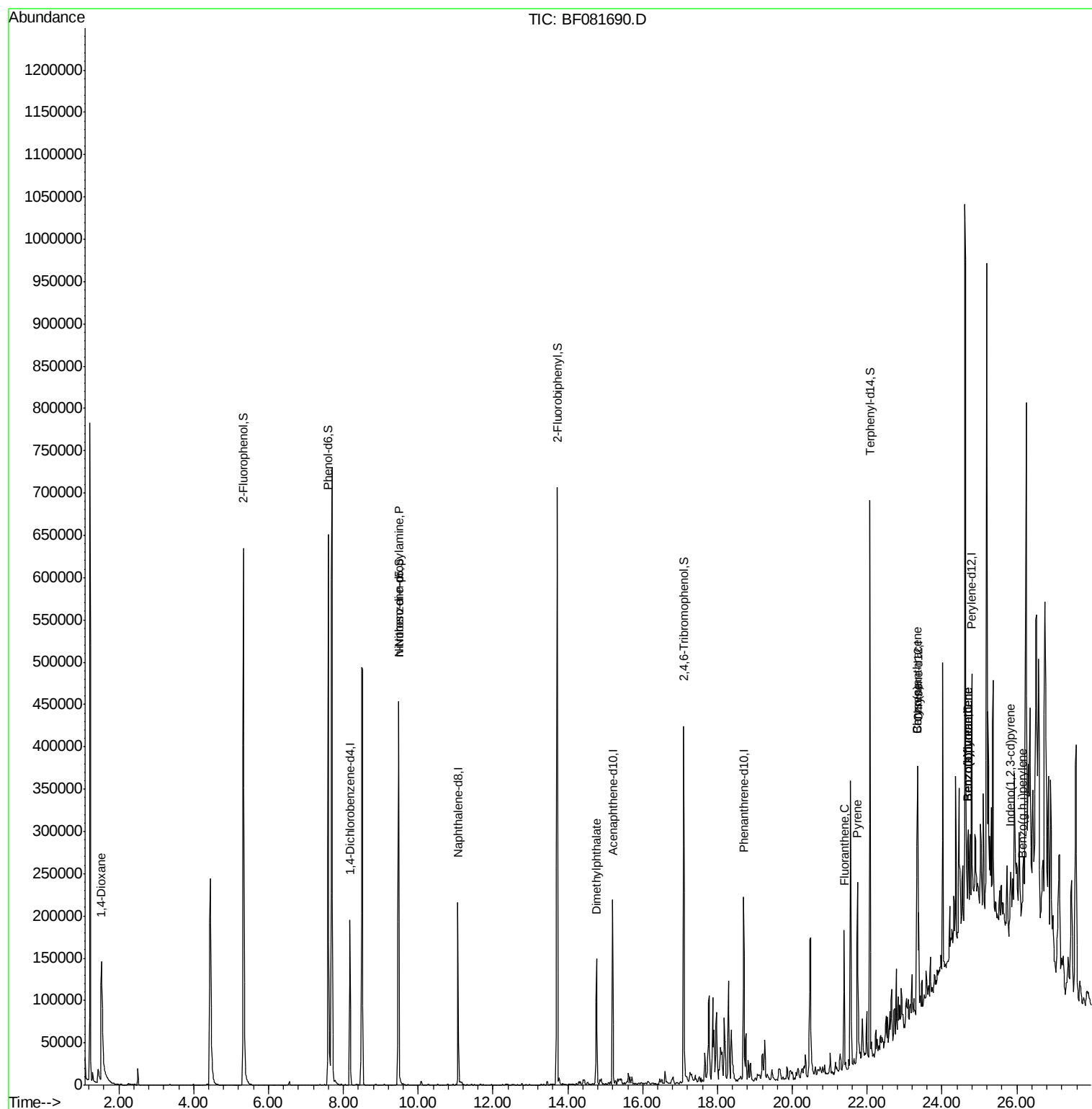
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	45785	20.00	ng	-0.04
21) Naphthalene-d8	11.07	136	179410	20.00	ng	-0.06
38) Acenaphthene-d10	15.20	164	80708	20.00	ng	-0.06
63) Phenanthrene-d10	18.70	188	140500	20.00	ng	-0.06
75) Chrysene-d12	23.35	240	93356	20.00	ng	-0.03
86) Perylene-d12	24.79	264	81186	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	286199	96.98	ng	-0.02
7) Phenol-d6	7.60	99	404053	103.44	ng	-0.04
23) Nitrobenzene-d5	9.48	82	269125	72.37	ng	-0.06
41) 2,4,6-Tribromophenol	17.10	330	69408	96.58	ng	-0.07
44) 2-Fluorobiphenyl	13.72	172	402239	63.87	ng	-0.06
78) Terphenyl-d14	22.07	244	221485	55.23	ng	-0.04
Target Compounds						Qvalue
2) 1,4-Dioxane	1.53	88	7655	5.78	ng	# 11
19) n-Nitroso-di-n-propylamine	9.48	70	35964	13.53	ng	# 67
49) Dimethylphthalate	14.77	163	95825	15.28	ng	# 96
74) Fluoranthene	21.39	202	93825	11.10	ng	# 88
77) Pyrene	21.74	202	80237	11.60	ng	# 93
80) Benzo(a)anthracene	23.34	228	38311	6.44	ng	# 94
82) Chrysene	23.34	228	38311	7.19	ng	# 96
85) Indeno(1,2,3-cd)pyrene	25.83	276	21017	5.38	ng	# 68
87) Benzo(b)fluoranthene	24.69	252	29741	5.13	ng	# 96
88) Benzo(k)fluoranthene	24.69	252	30161	6.27	ng	# 93
89) Benzo(a)pyrene	24.69	252	30208	6.15	ng	# 96
91) Benzo(g,h,i)perylene	26.14	276	19825	5.47	ng	# 73

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.17 min Scan# 620

Delta R.T. -0.04 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOILRE

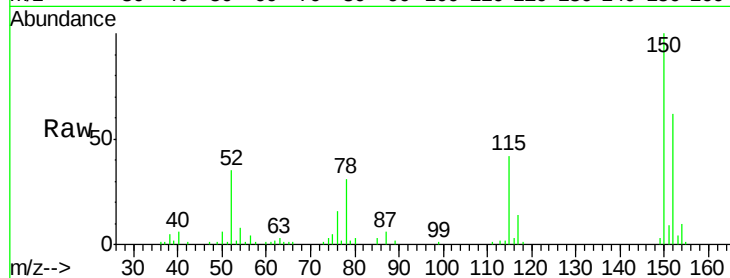
Tgt Ion:152 Resp: 45785

Ion Ratio Lower Upper

152 100

150 161.6 124.7 187.1

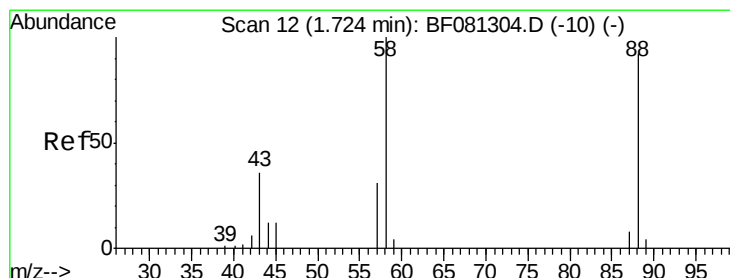
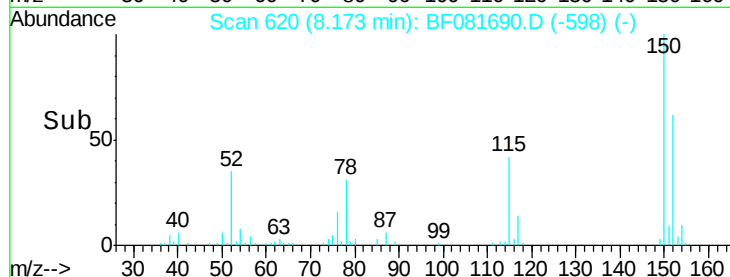
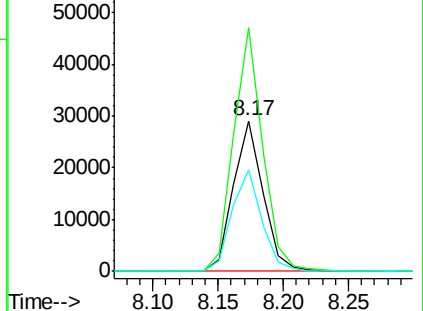
115 67.1 39.0 58.4#



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



#2

1,4-Dioxane

Concen: 5.78 ng

RT: 1.53 min Scan# 39

Delta R.T. -0.03 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

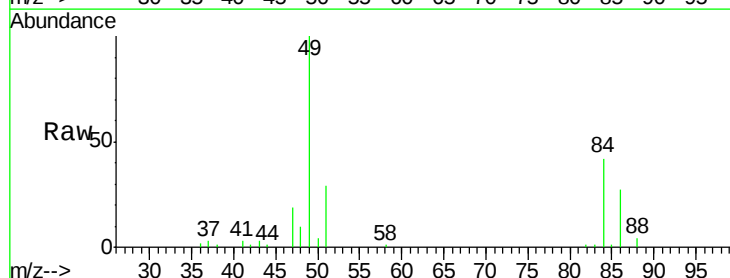
Tgt Ion: 88 Resp: 7655

Ion Ratio Lower Upper

88 100

58 0.0 77.7 116.5#

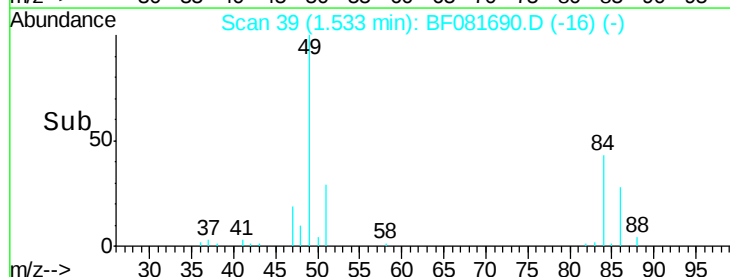
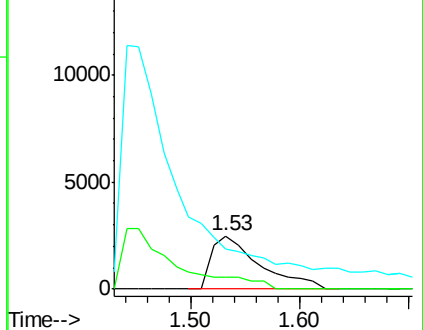
43 0.0 26.6 40.0#



Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 96.98 ng

RT: 5.33 min Scan# 371

Delta R.T. -0.02 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOILRE

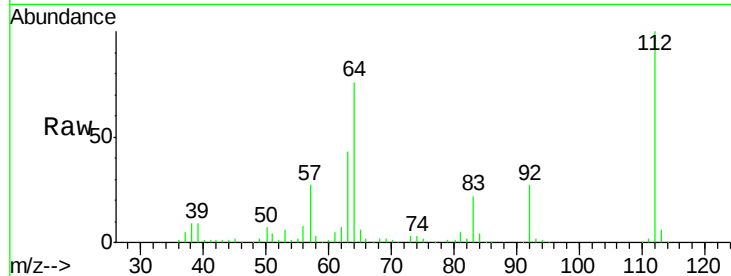
Tgt Ion: 112 Resp: 286199

Ion Ratio Lower Upper

112 100

64 76.4 39.7 59.5#

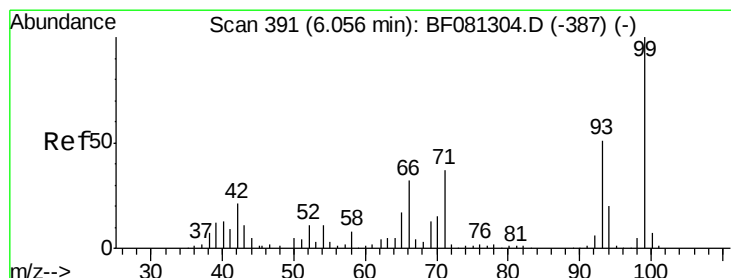
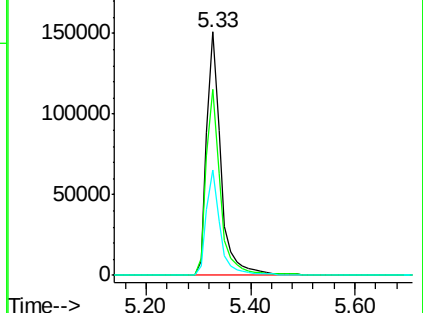
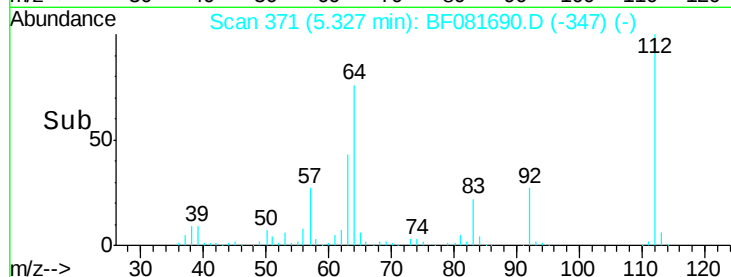
63 43.3 17.4 26.0#



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0



#7

Phenol-d6

Concen: 103.44 ng

RT: 7.60 min Scan# 570

Delta R.T. -0.04 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

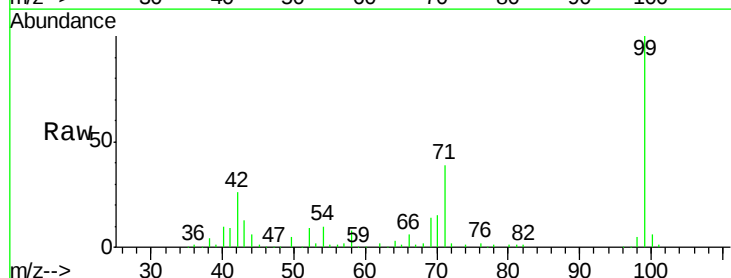
Tgt Ion: 99 Resp: 404053

Ion Ratio Lower Upper

99 100

42 25.5 13.7 20.5#

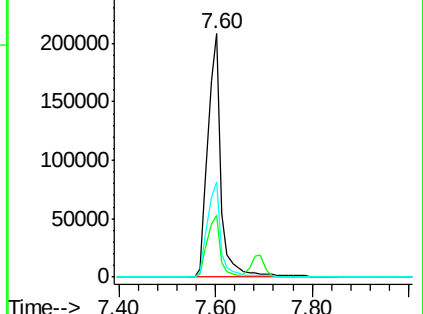
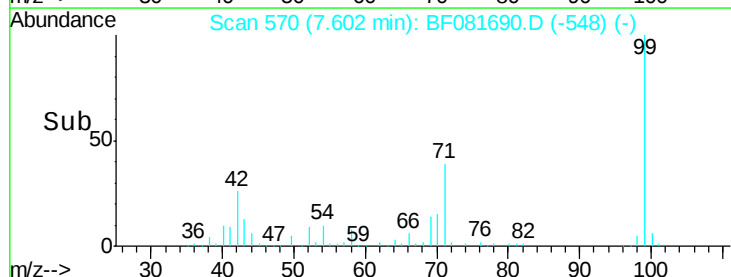
71 38.9 14.2 21.2#

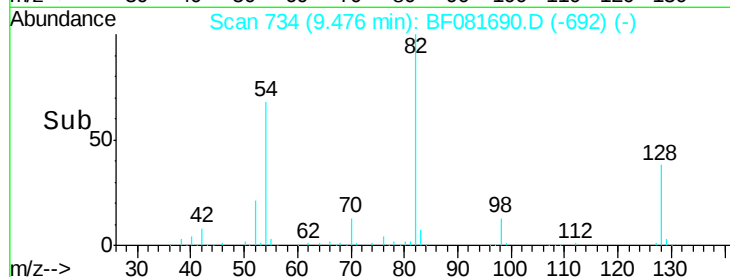
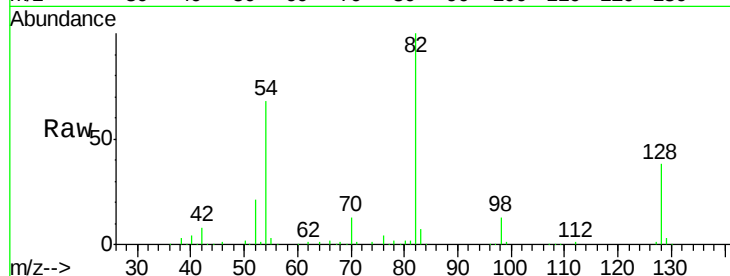
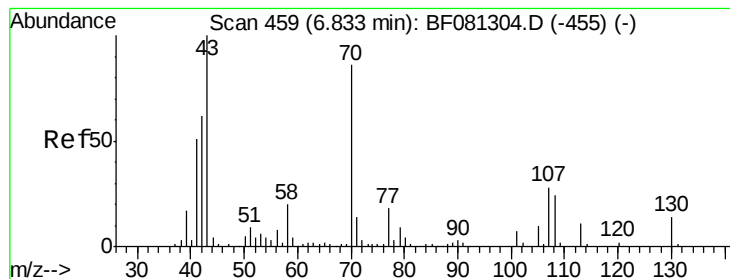


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 13.53 ng

RT: 9.48 min Scan# 734

Delta R.T. 0.18 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOILRE

Tgt Ion: 70 Resp: 35964

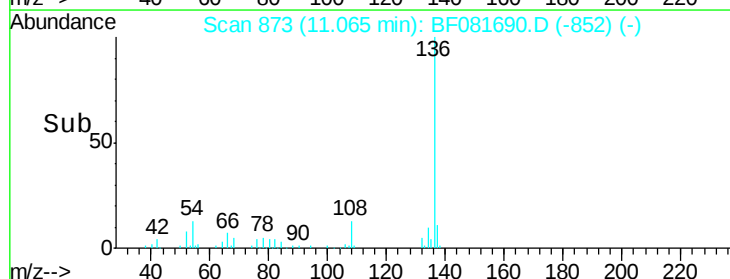
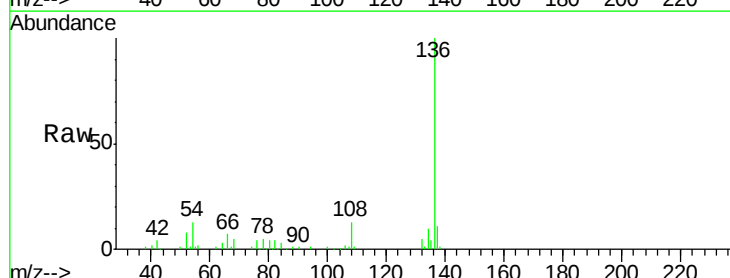
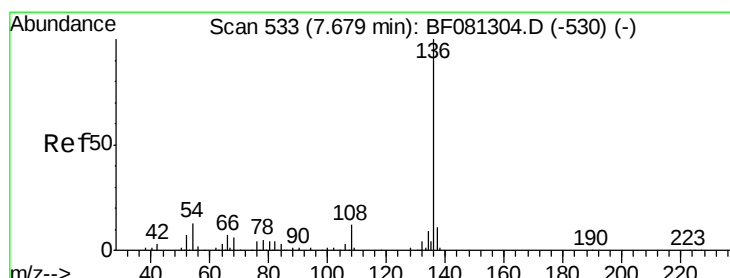
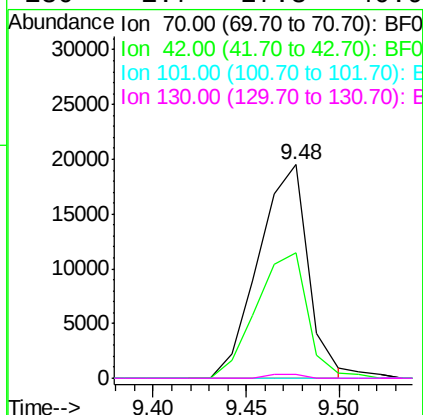
Ion Ratio Lower Upper

70 100

42 58.6 63.8 95.6#

101 0.0 9.2 13.8#

130 1.7 27.3 40.9#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.07 min Scan# 873

Delta R.T. -0.06 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

Tgt Ion: 136 Resp: 179410

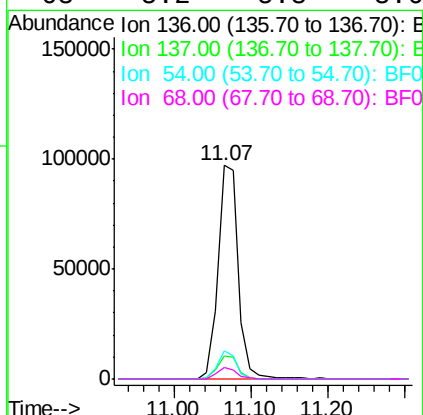
Ion Ratio Lower Upper

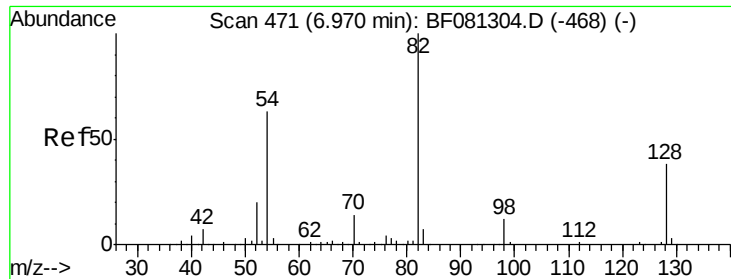
136 100

137 10.8 9.0 13.6

54 13.2 8.2 12.2#

68 5.2 5.8 8.6#

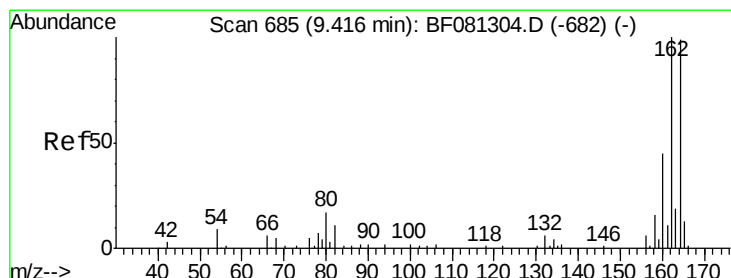
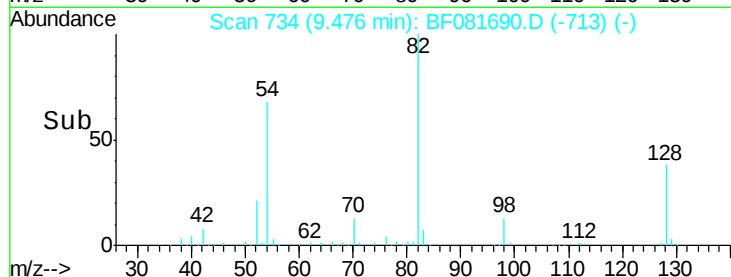
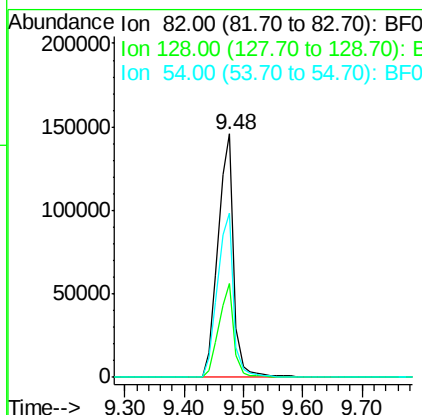
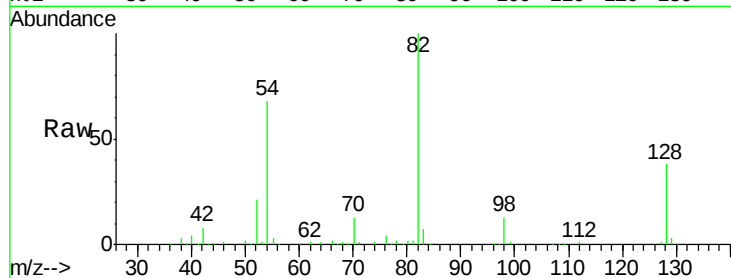




#23
 Nitrobenzene-d5
 Concen: 72.37 ng
 RT: 9.48 min Scan# 734
 Delta R.T. -0.06 min
 Lab File: BF081690.D
 Acq: 17 Sep 2015 21:57

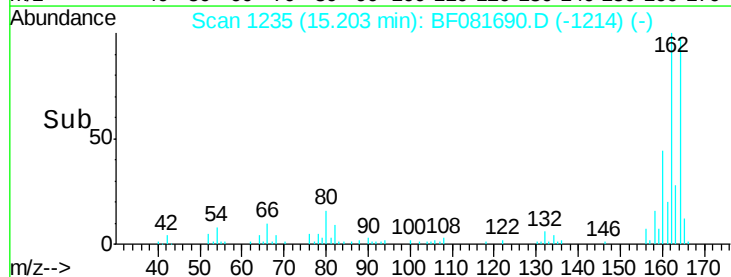
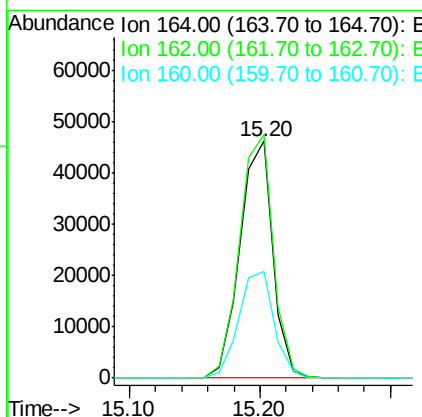
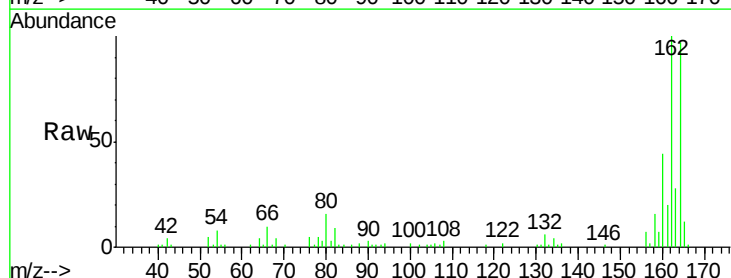
Instrument :
 BNA_F
 ClientSampleId :
 LIME-TOPSOILRE

Tgt Ion: 82 Resp: 269125
 Ion Ratio Lower Upper
 82 100
 128 38.5 51.0 76.6#
 54 67.6 47.5 71.3



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 15.20 min Scan# 1235
 Delta R.T. -0.06 min
 Lab File: BF081690.D
 Acq: 17 Sep 2015 21:57

Tgt Ion: 164 Resp: 80708
 Ion Ratio Lower Upper
 164 100
 162 102.8 75.2 112.8
 160 44.9 31.5 47.3

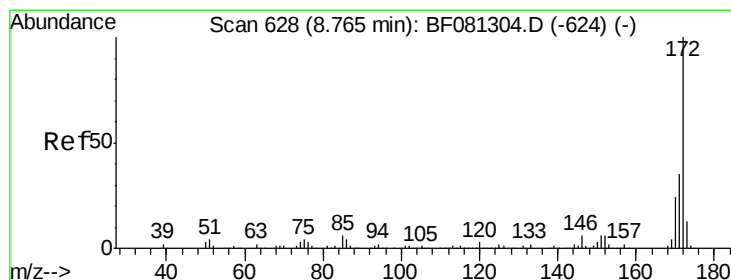
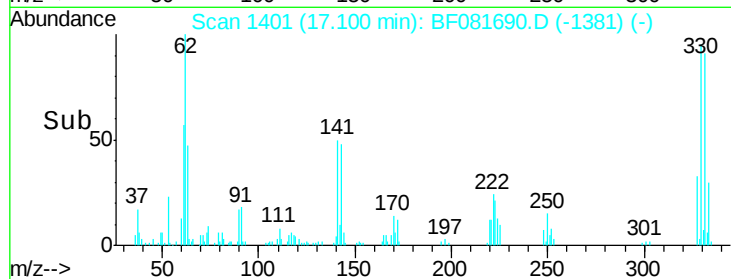
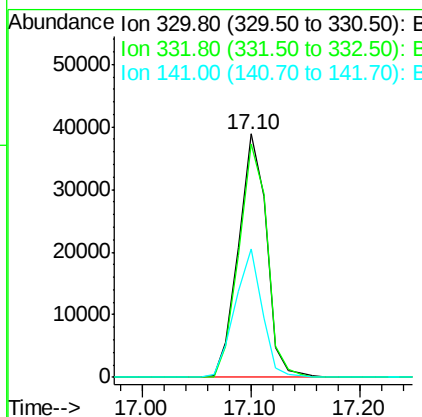
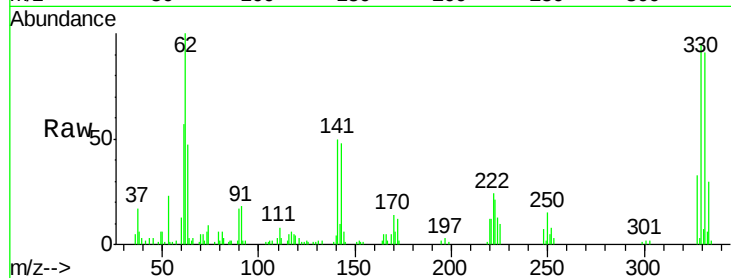




#41
 2,4,6-Tribromophenol
 Concen: 96.58 ng
 RT: 17.10 min Scan# 1401
 Delta R.T. -0.07 min
 Lab File: BF081690.D
 Acq: 17 Sep 2015 21:57

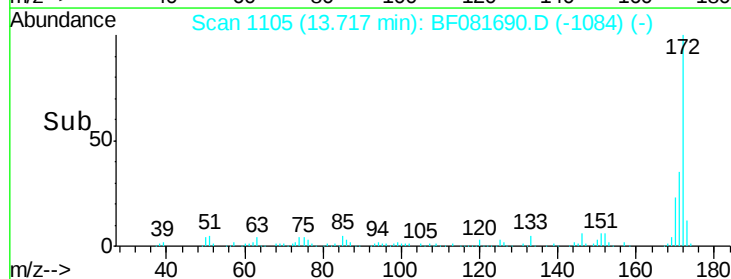
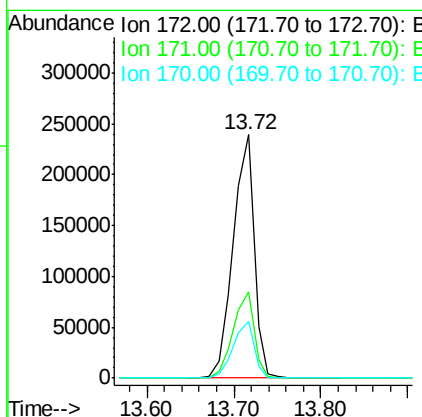
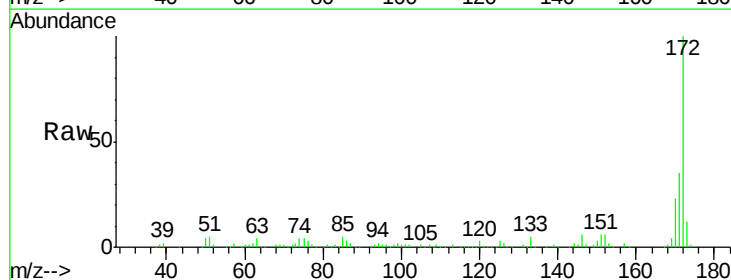
Instrument :
 BNA_F
 ClientSampleId :
 LIME-TOPSOILRE

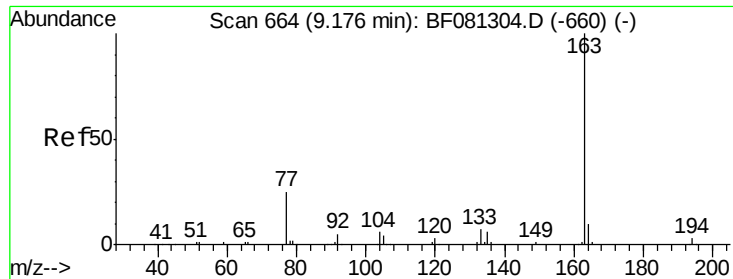
Tgt Ion:330 Resp: 69408
 Ion Ratio Lower Upper
 330 100
 332 96.6 76.6 114.8
 141 51.0 29.7 44.5#



#44
 2-Fluorobiphenyl
 Concen: 63.87 ng
 RT: 13.72 min Scan# 1105
 Delta R.T. -0.06 min
 Lab File: BF081690.D
 Acq: 17 Sep 2015 21:57

Tgt Ion:172 Resp: 402239
 Ion Ratio Lower Upper
 172 100
 171 35.3 26.1 39.1
 170 23.1 17.4 26.2





#49

Dimethylphthalate

Concen: 15.28 ng

RT: 14.77 min Scan# 1197

Delta R.T. -0.09 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOILRE

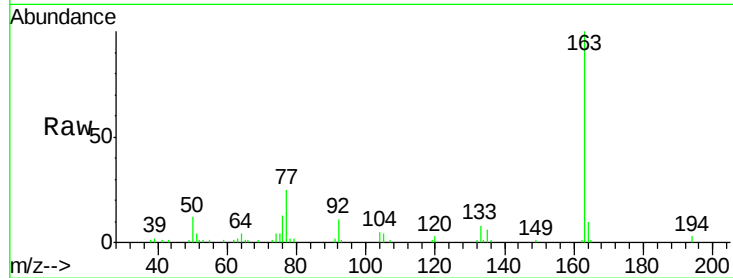
Tgt Ion:163 Resp: 95825

Ion Ratio Lower Upper

163 100

194 3.3 4.4 6.6#

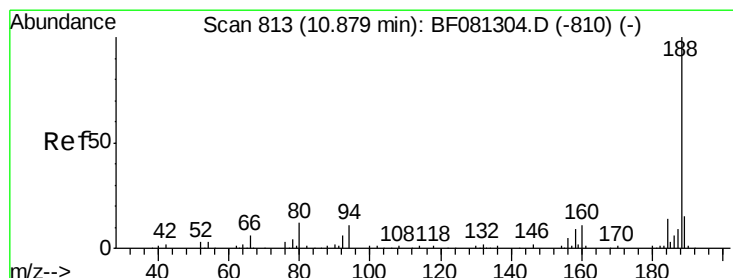
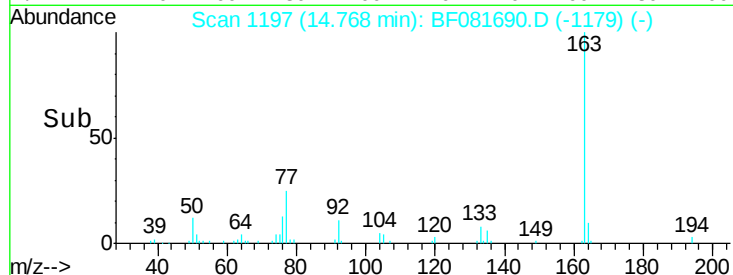
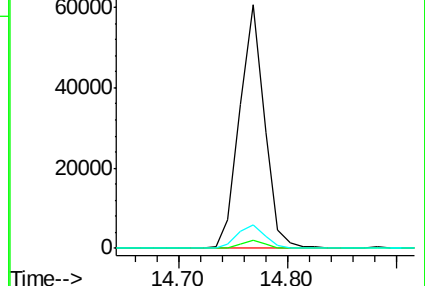
164 9.6 8.3 12.5



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 18.70 min Scan# 1541

Delta R.T. -0.06 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

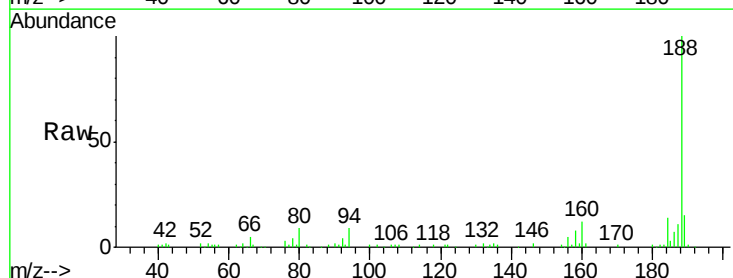
Tgt Ion:188 Resp: 140500

Ion Ratio Lower Upper

188 100

94 8.6 11.1 16.7#

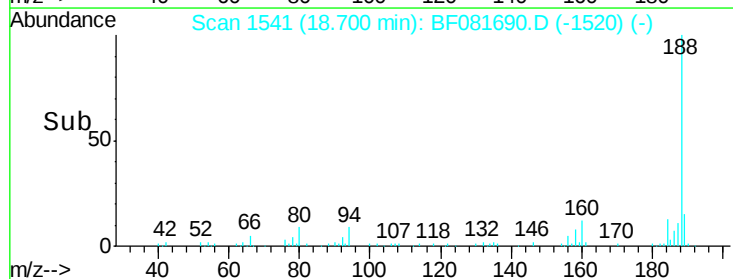
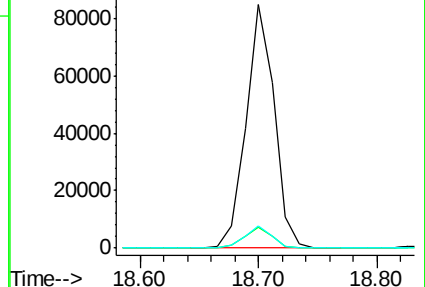
80 9.2 11.0 16.4#

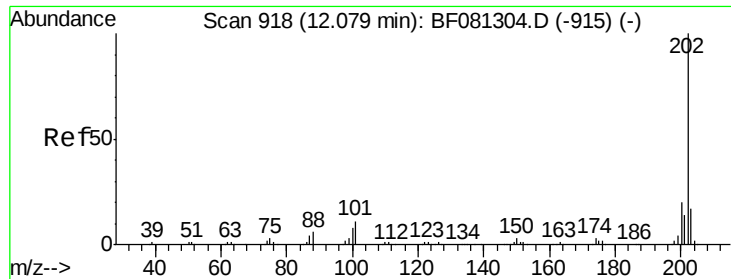


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

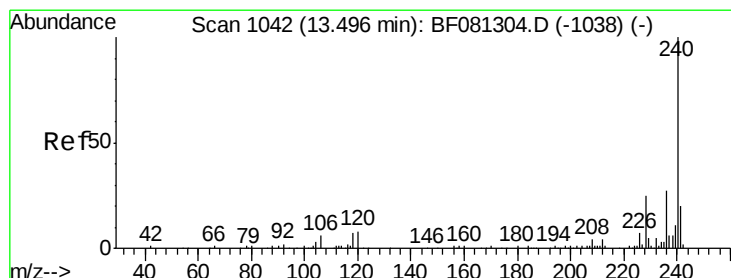
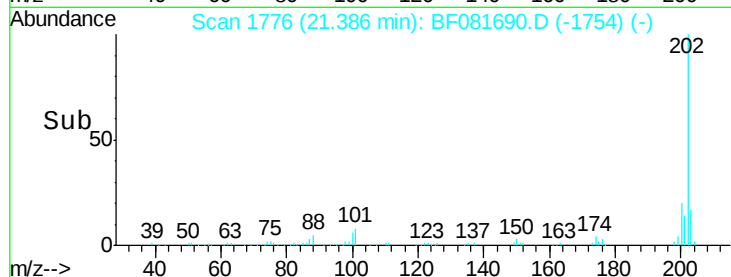
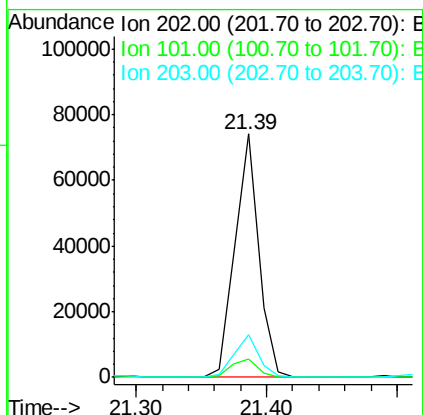
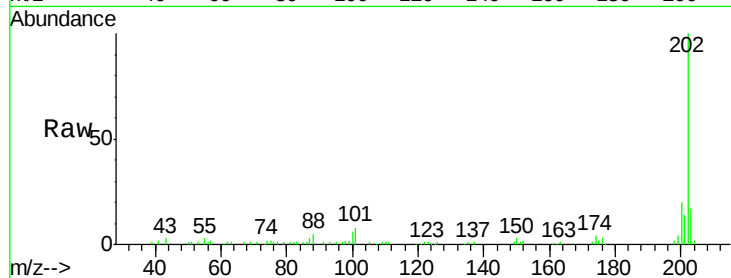




#74
 Fluoranthene
 Concen: 11.10 ng
 RT: 21.39 min Scan# 1776
 Delta R.T. -0.04 min
 Lab File: BF081690.D
 Acq: 17 Sep 2015 21:57

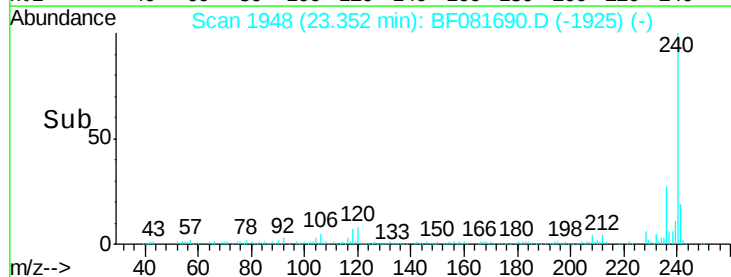
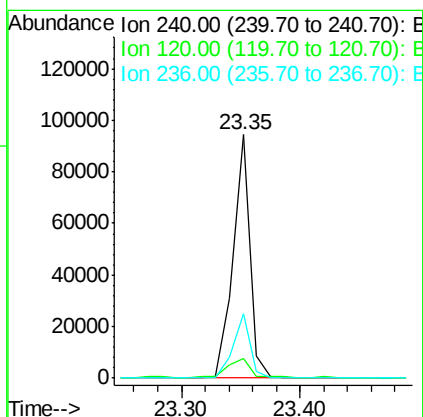
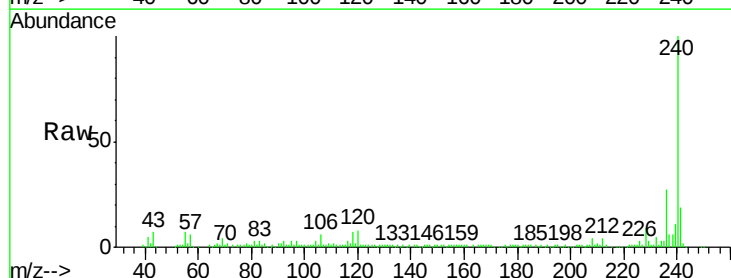
Instrument :
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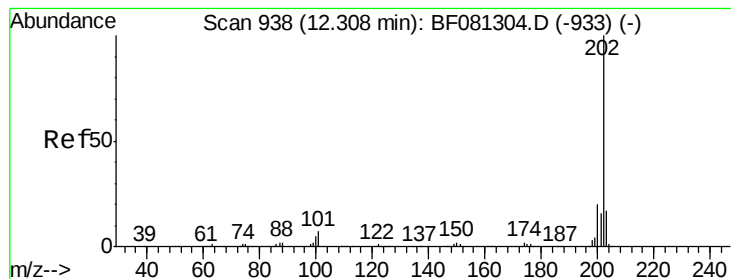
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	93825		
101	7.6		0.0	38.3
203	17.3		0.0	37.3



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 23.35 min Scan# 1948
 Delta R.T. -0.03 min
 Lab File: BF081690.D
 Acq: 17 Sep 2015 21:57

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	93356		
120	7.9		16.2	24.2#
236	26.6		18.4	27.6





#77

Pyrene

Concen: 11.60 ng

RT: 21.74 min Scan# 1807

Delta R.T. -0.04 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOILRE

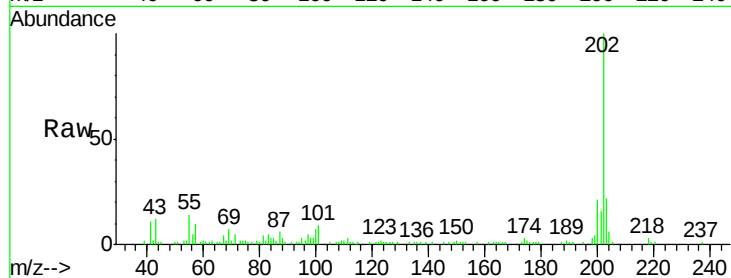
Tgt Ion:202 Resp: 80237

Ion Ratio Lower Upper

202 100

200 20.8 15.0 22.4

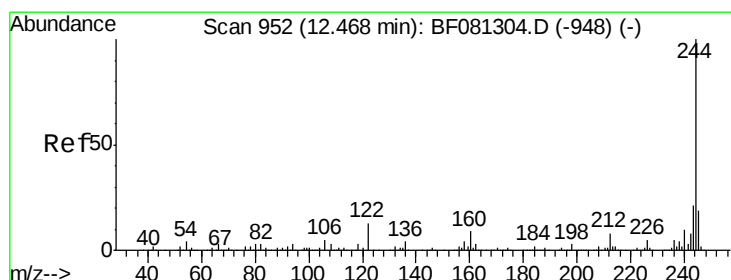
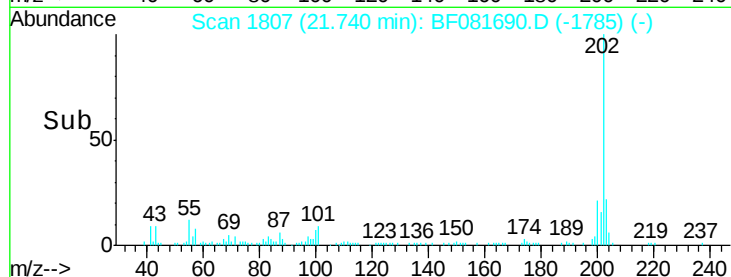
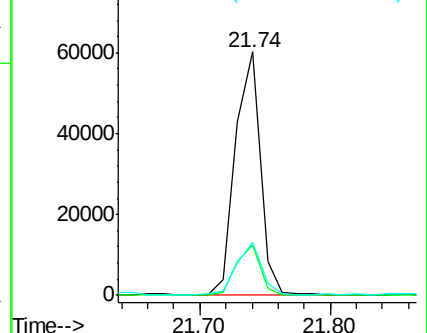
203 21.9 14.1 21.1#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 55.23 ng

RT: 22.07 min Scan# 1836

Delta R.T. -0.04 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

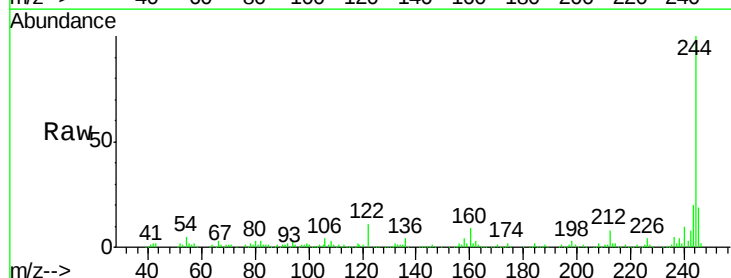
Tgt Ion:244 Resp: 221485

Ion Ratio Lower Upper

244 100

212 8.1 4.3 6.5#

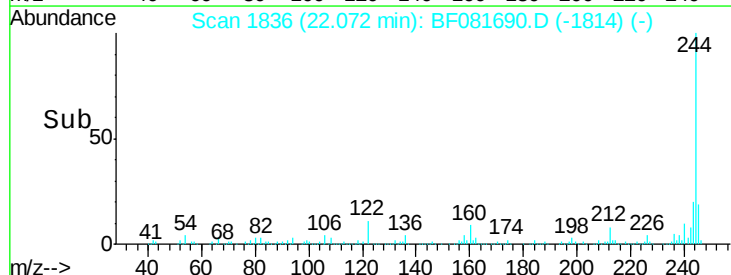
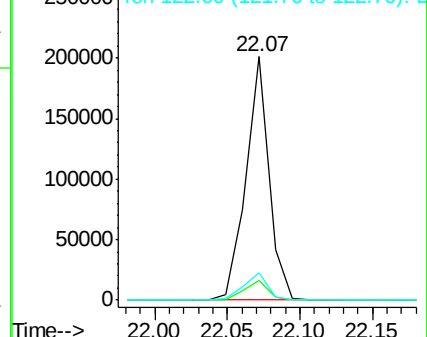
122 11.2 17.4 26.2#

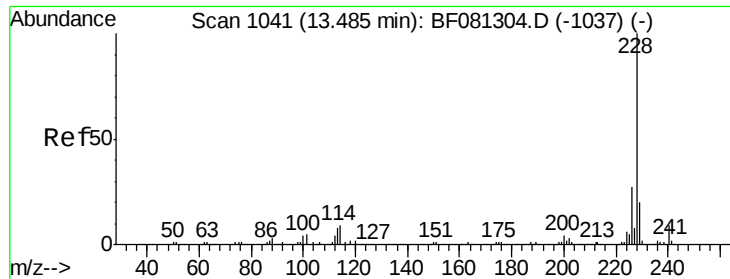


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 6.44 ng

RT: 23.34 min Scan# 1947

Delta R.T. -0.03 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOILRE

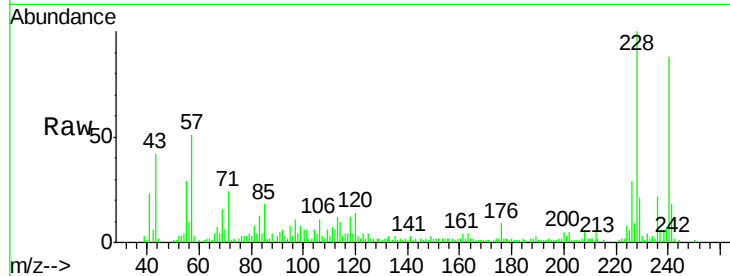
Tgt Ion: 228 Resp: 38311

Ion Ratio Lower Upper

228 100

226 28.9 20.0 30.0

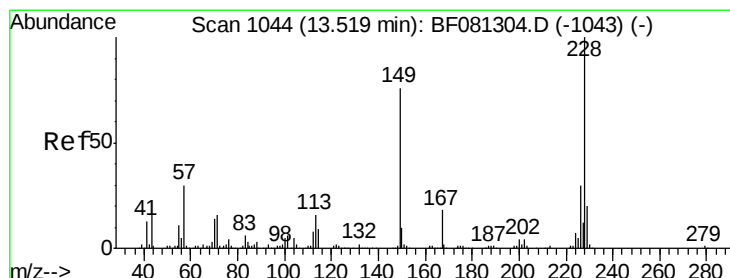
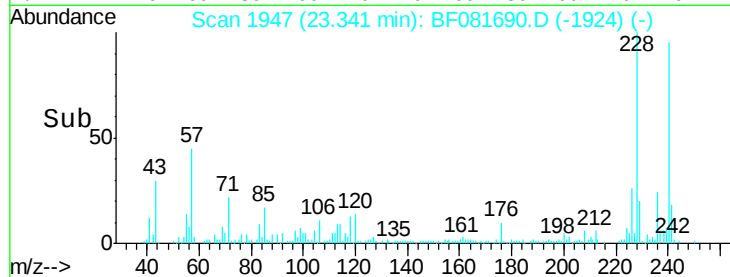
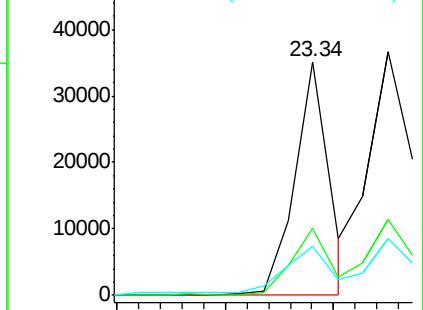
229 20.8 15.4 23.2



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: 7.19 ng

RT: 23.34 min Scan# 1947

Delta R.T. -0.08 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

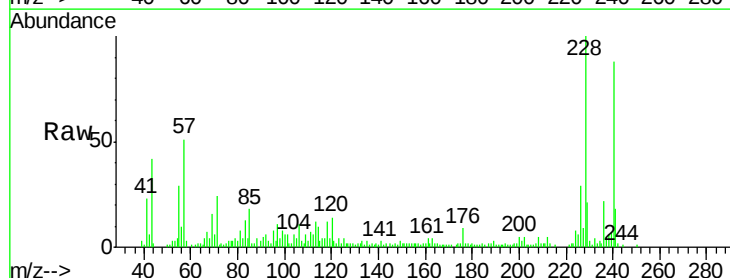
Tgt Ion: 228 Resp: 38311

Ion Ratio Lower Upper

228 100

226 28.9 21.0 31.4

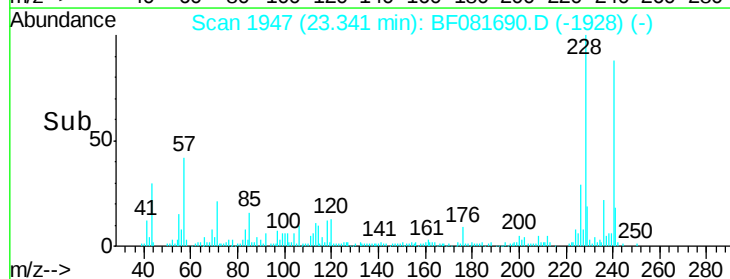
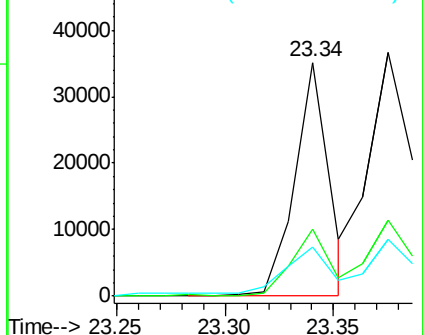
229 20.8 15.6 23.4

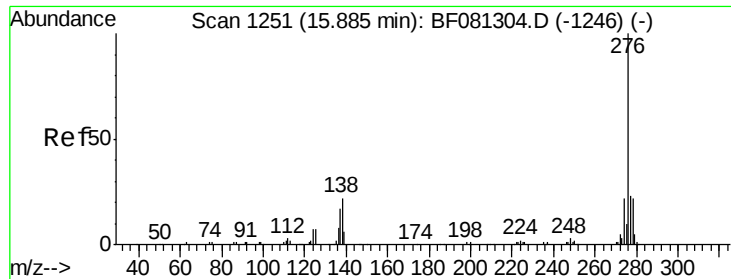


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 5.38 ng

RT: 25.83 min Scan# 2165

Delta R.T. -0.04 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOILRE

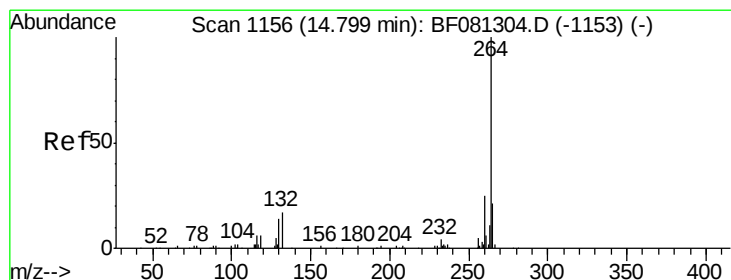
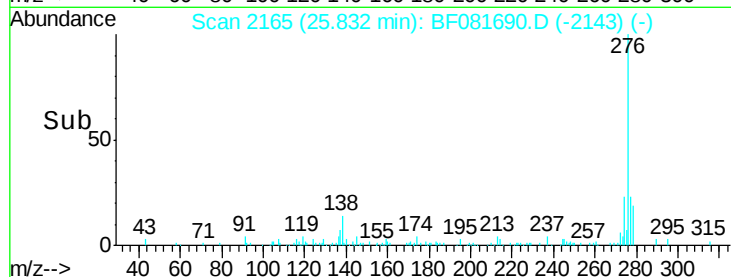
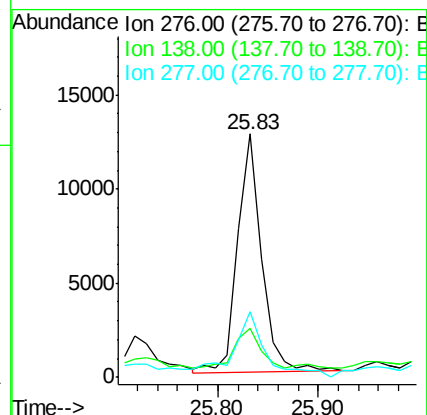
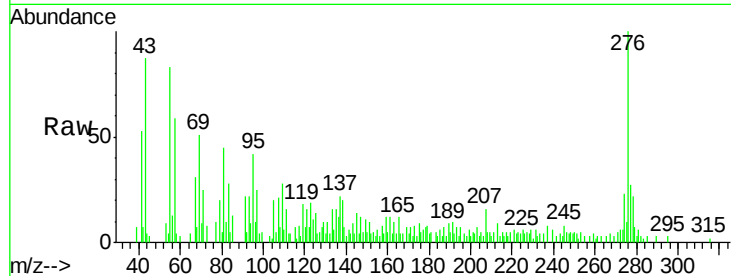
Tgt Ion:276 Resp: 21017

Ion Ratio Lower Upper

276 100

138 18.0 25.7 38.5#

277 39.0 15.6 23.4#



#86

Perylene-d12

Concen: 20.00 ng

RT: 24.79 min Scan# 2074

Delta R.T. -0.02 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

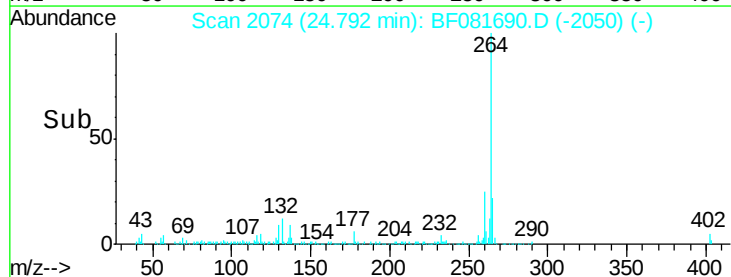
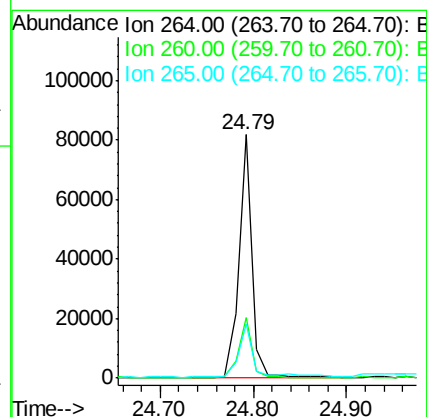
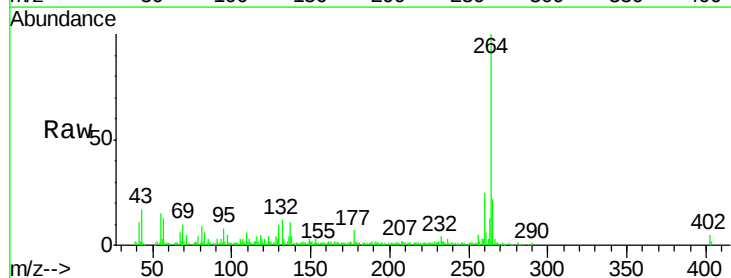
Tgt Ion:264 Resp: 81186

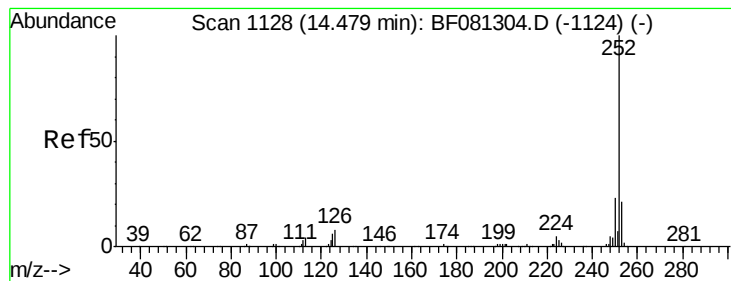
Ion Ratio Lower Upper

264 100

260 24.8 16.7 25.1

265 22.1 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 5.13 ng

RT: 24.69 min Scan# 2065

Delta R.T. 0.21 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOILRE

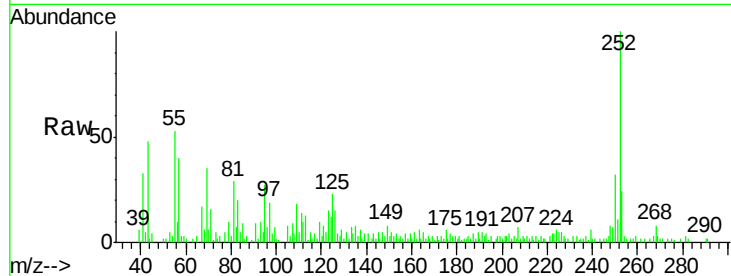
Tgt Ion:252 Resp: 29741

Ion Ratio Lower Upper

252 100

253 24.1 17.5 26.3

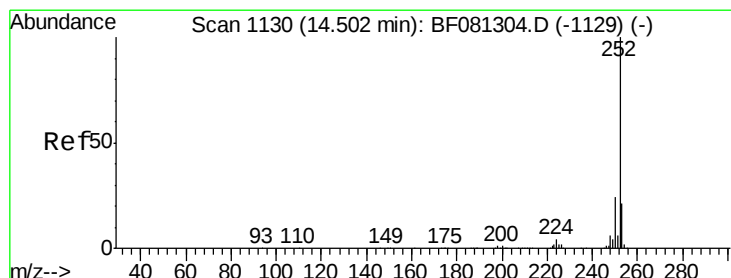
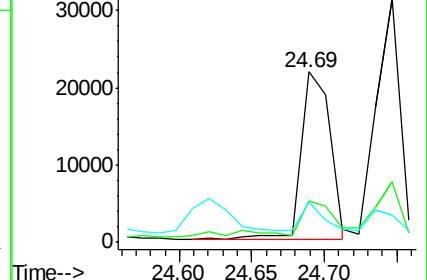
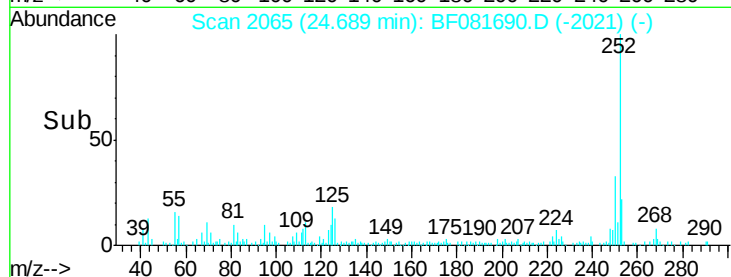
125 23.3 17.1 25.7



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



#88

Benzo(k)fluoranthene

Concen: 6.27 ng

RT: 24.69 min Scan# 2065

Delta R.T. 0.18 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

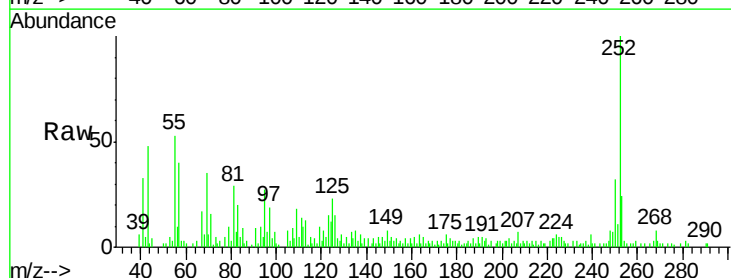
Tgt Ion:252 Resp: 30161

Ion Ratio Lower Upper

252 100

253 24.1 17.0 25.4

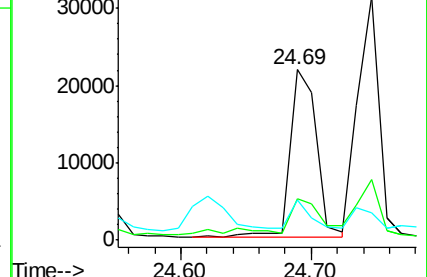
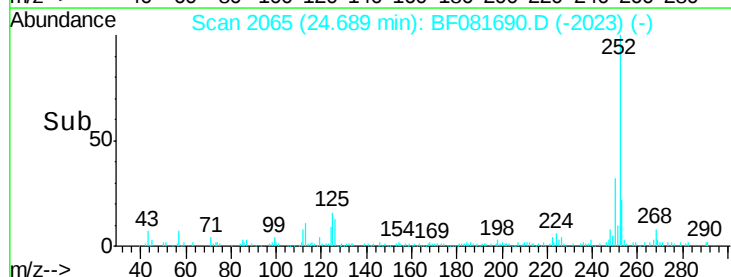
125 23.3 16.0 24.0

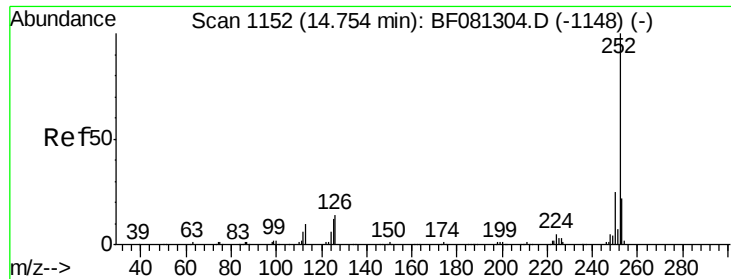


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 6.15 ng

RT: 24.69 min Scan# 2065

Delta R.T. -0.08 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOILRE

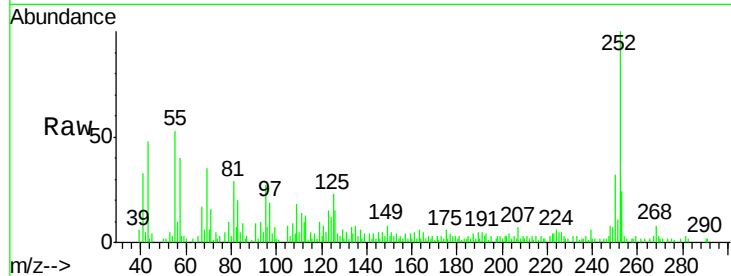
Tgt Ion:252 Resp: 30208

Ion Ratio Lower Upper

252 100

253 24.1 17.2 25.8

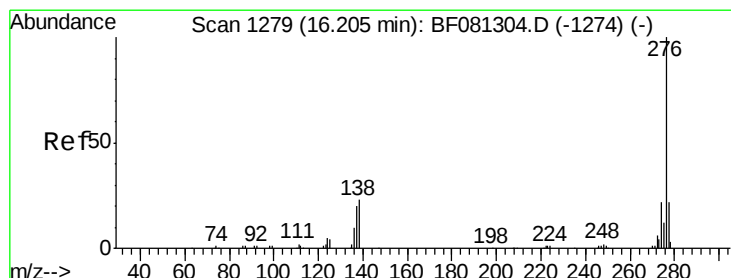
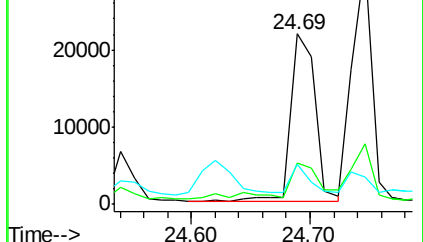
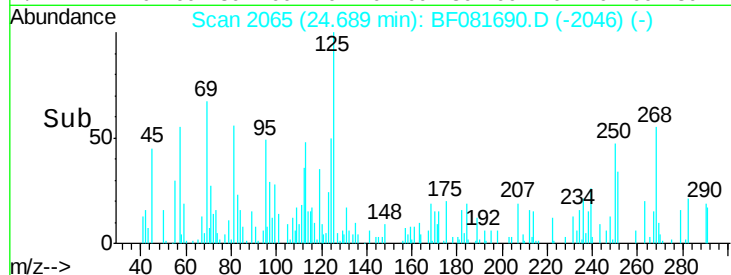
125 23.3 18.0 27.0



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

Benzo(g,h,i)perylene

Concen: 5.47 ng

RT: 26.14 min Scan# 2192

Delta R.T. -0.03 min

Lab File: BF081690.D

Acq: 17 Sep 2015 21:57

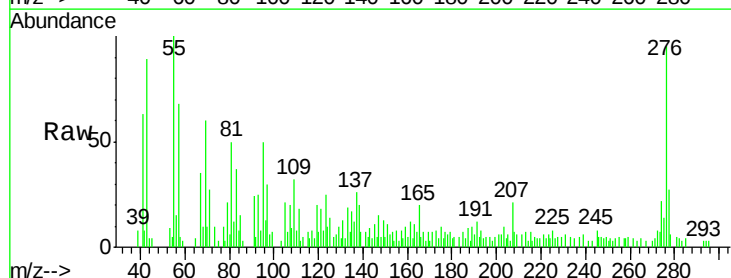
Tgt Ion:276 Resp: 19825

Ion Ratio Lower Upper

276 100

277 28.9 17.8 26.6#

138 21.2 34.6 51.8#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

