

Data Path : Z:\HPCHEM1\BNA_F\Data\BF091615\
 Data File : BF081673.D
 Acq On : 17 Sep 2015 9:05
 Operator : UM/IZ
 Sample : G3689-01
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIME-TOPSOIL

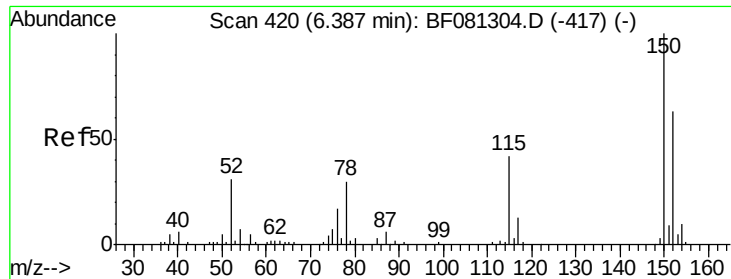
Quant Time: Sep 17 11:49:48 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF090115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 15 14:03:59 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.18	152	45944	20.00	ng	-0.03
21) Naphthalene-d8	11.09	136	173952	20.00	ng	-0.03
38) Acenaphthene-d10	15.21	164	75557	20.00	ng	-0.05
63) Phenanthrene-d10	18.72	188	126604	20.00	ng	-0.03
75) Chrysene-d12	23.36	240	99054	20.00	ng	-0.02
86) Perylene-d12	24.80	264	76464	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.34	112	284250	95.99	ng	-0.01
7) Phenol-d6	7.61	99	399249	101.86	ng	-0.03
23) Nitrobenzene-d5	9.49	82	260641	72.29	ng	-0.05
41) 2,4,6-Tribromophenol	17.12	330	61293	91.11	ng	-0.05
44) 2-Fluorobiphenyl	13.73	172	388368	65.87	ng	-0.05
78) Terphenyl-d14	22.08	244	227376	53.43	ng	-0.03

Target Compounds						Qvalue
2) 1,4-Dioxane	1.53	88	22976	17.28	ng	# 11
19) n-Nitroso-di-n-propylamine	9.49	70	34261	12.84	ng	# 69
49) Dimethylphthalate	14.78	163	90817	15.47	ng	# 97
70) Phenanthrene	18.77	178	35098	4.99	ng	95
74) Fluoranthene	21.40	202	93432	12.26	ng	89
77) Pyrene	21.75	202	82311	11.22	ng	97
80) Benzo(a)anthracene	23.35	228	43412	6.88	ng	94
82) Chrysene	23.38	228	54230	9.59	ng	92
83) Bis(2-ethylhexyl)phthalate	23.48	149	10720	2.55	ng	# 93
85) Indeno(1,2,3-cd)pyrene	25.84	276	18347	4.42	ng	# 82
87) Benzo(b)fluoranthene	24.46	252	82424	15.10	ng	# 88
88) Benzo(k)fluoranthene	24.70	252	30835	6.81	ng	94
89) Benzo(a)pyrene	24.74	252	34718	7.51	ng	# 90
90) Dibenzo(a,h)anthracene	25.84	278	7405	2.07	ng	# 94
91) Benzo(g,h,i)perylene	26.15	276	17378	5.09	ng	# 78

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.18 min Scan# 599

Delta R.T. -0.03 min

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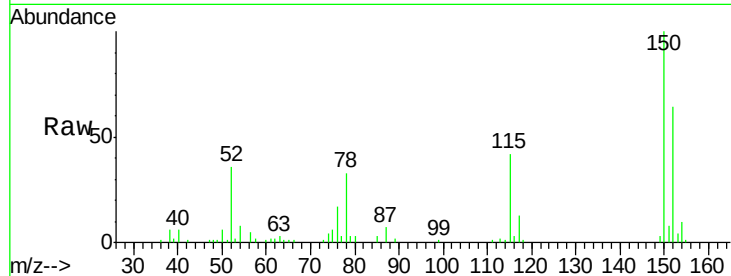
Tgt Ion:152 Resp: 45944

Ion Ratio Lower Upper

152 100

150 156.1 124.7 187.1

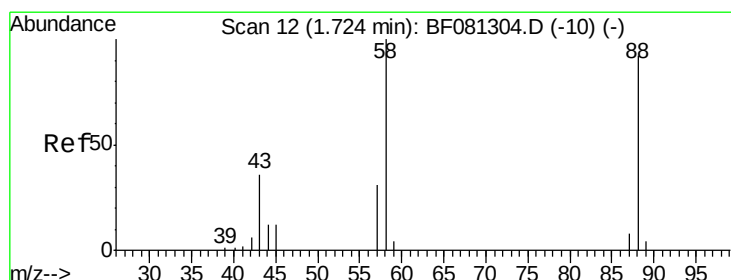
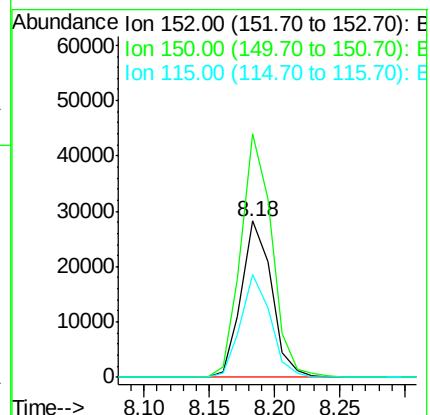
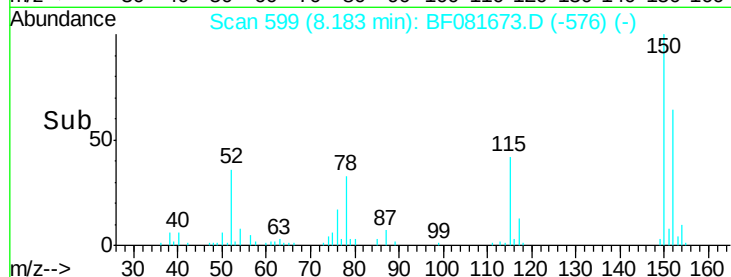
115 66.2 39.0 58.4#



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: 17.28 ng

RT: 1.53 min Scan# 17

Delta R.T. -0.03 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

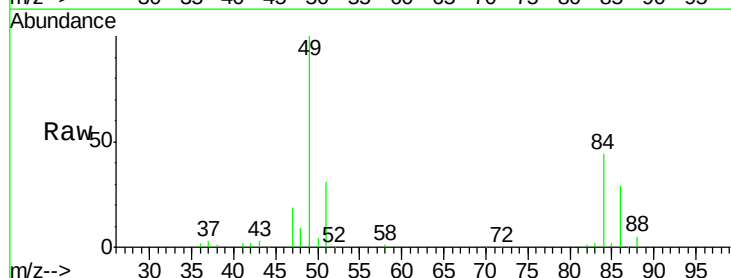
Tgt Ion: 88 Resp: 22976

Ion Ratio Lower Upper

88 100

58 0.0 77.7 116.5#

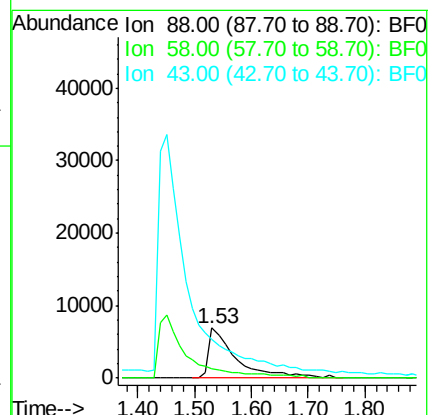
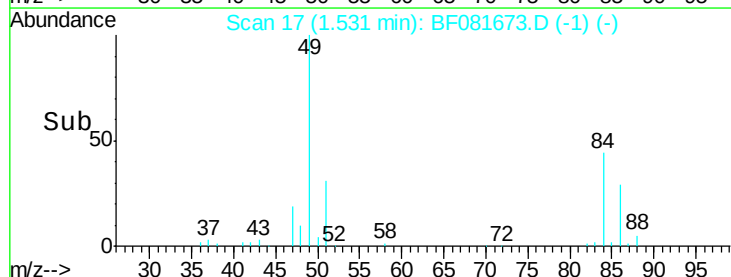
43 0.0 26.6 40.0#

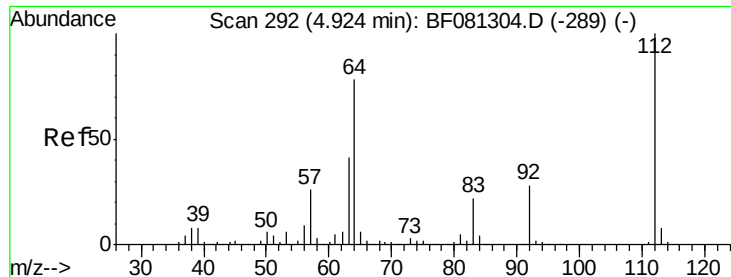


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 95.99 ng

RT: 5.34 min Scan# 350

Delta R.T. -0.01 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

Instrument :

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ClientSampleId :

LIME-TOPSOIL

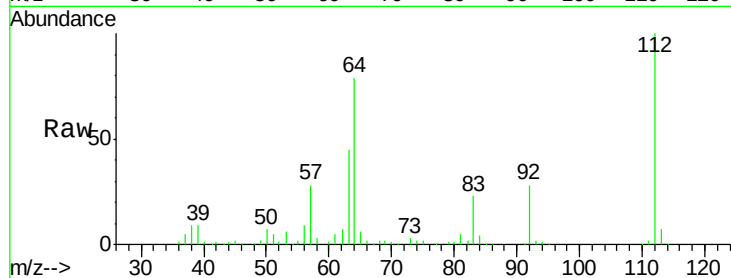
Tgt Ion: 112 Resp: 284250

Ion Ratio Lower Upper

112 100

64 78.6 39.7 59.5#

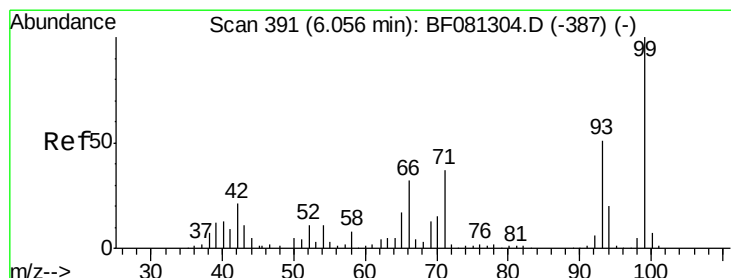
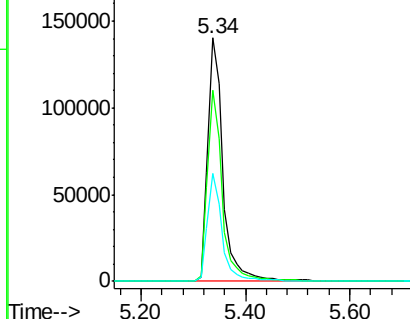
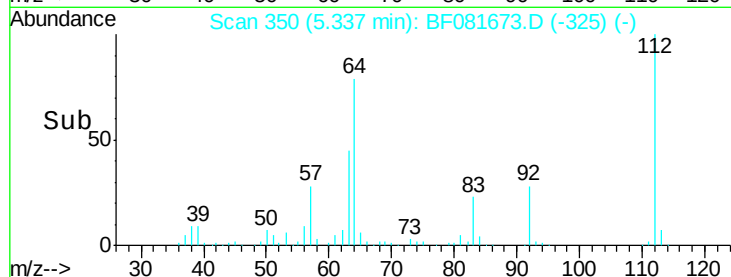
63 44.5 17.4 26.0#



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: 101.86 ng

RT: 7.61 min Scan# 549

Delta R.T. -0.03 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

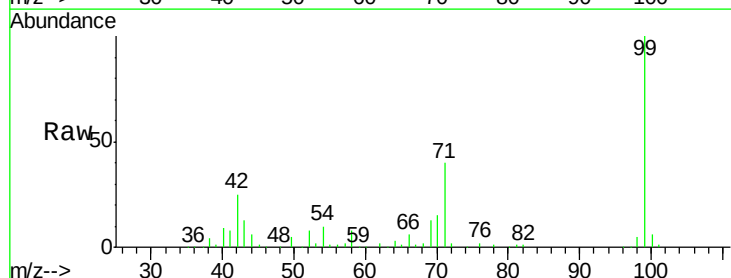
Tgt Ion: 99 Resp: 399249

Ion Ratio Lower Upper

99 100

42 24.5 13.7 20.5#

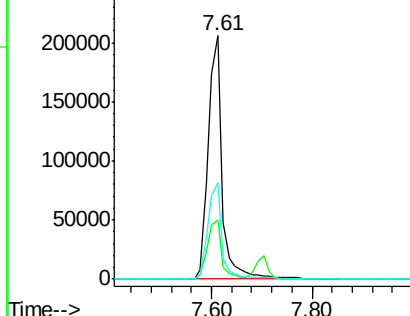
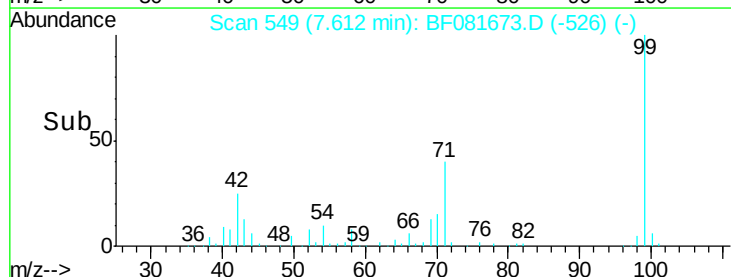
71 39.9 14.2 21.2#

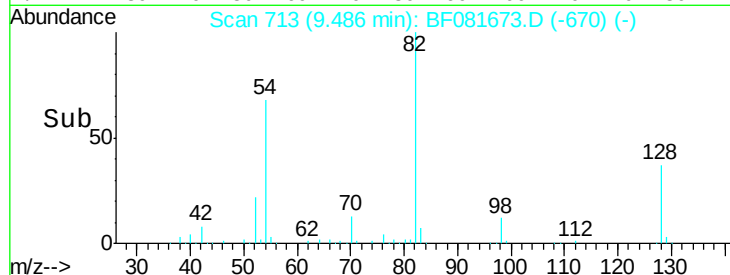
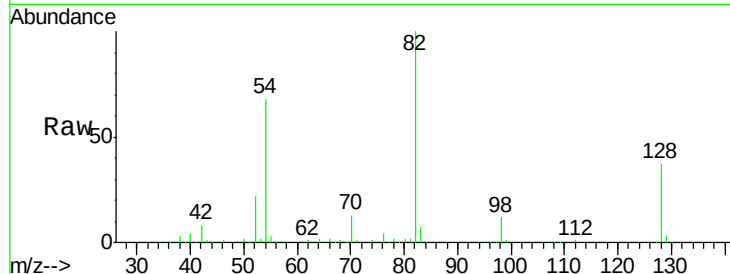
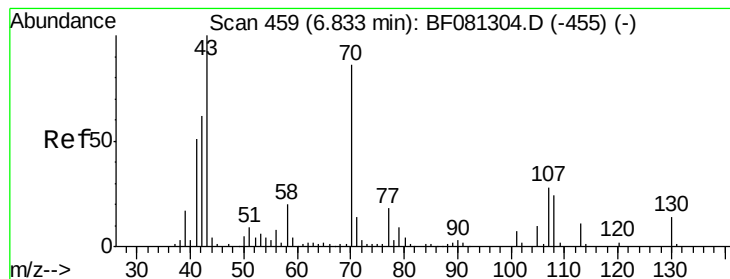


Abundance Ion 99.00 (98.70 to 99.70): BF0

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: 12.84 ng

RT: 9.49 min Scan# 713

Delta R.T. 0.19 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOIL

Tgt Ion: 70 Resp: 34261

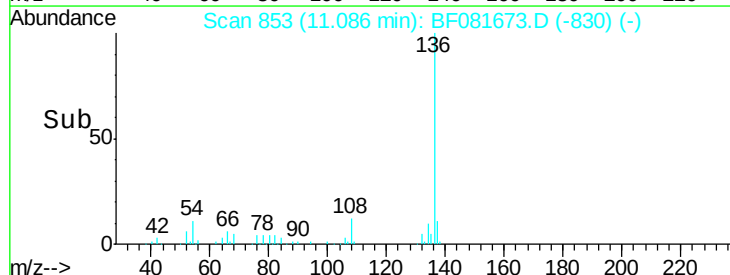
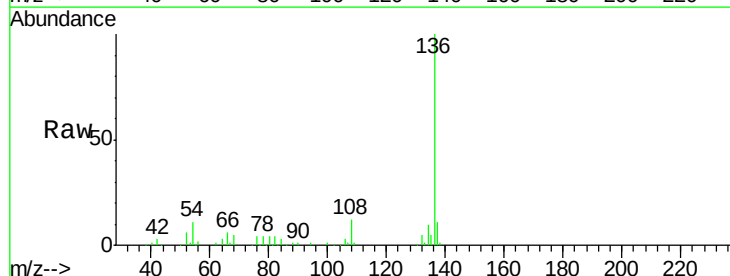
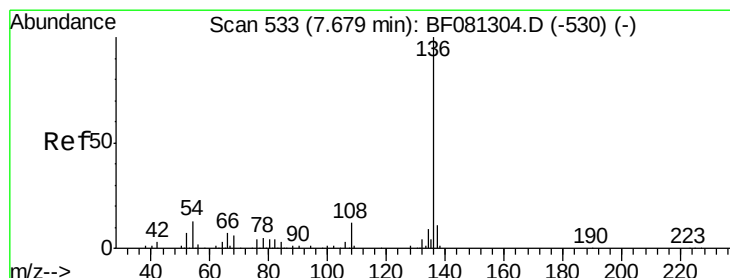
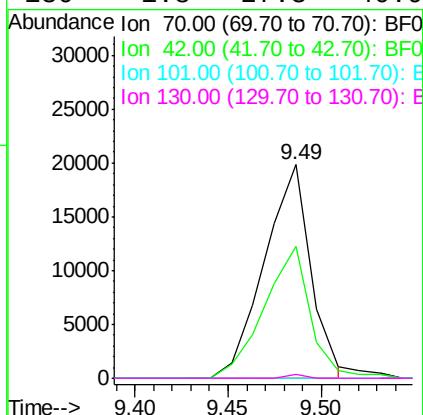
Ion Ratio Lower Upper

70 100

42 62.0 63.8 95.6#

101 0.0 9.2 13.8#

130 1.8 27.3 40.9#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.09 min Scan# 853

Delta R.T. -0.03 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

Tgt Ion: 136 Resp: 173952

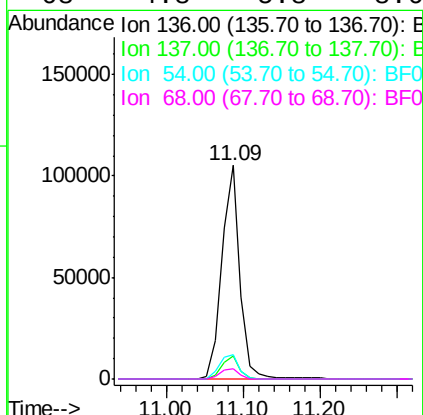
Ion Ratio Lower Upper

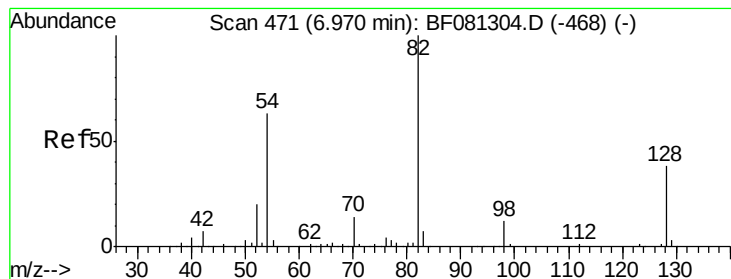
136 100

137 11.0 9.0 13.6

54 11.1 8.2 12.2

68 4.8 5.8 8.6#





#23

Nitrobenzene-d5

Concen: 72.29 ng

RT: 9.49 min Scan# 713

Delta R.T. -0.05 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOIL

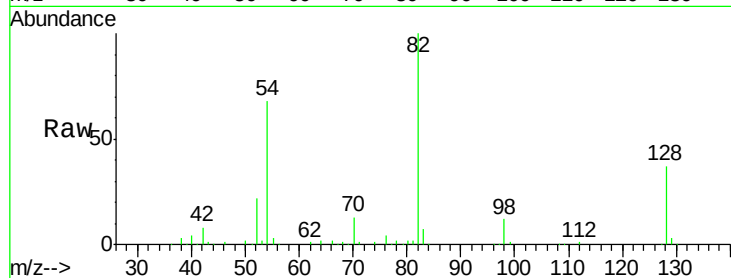
Tgt Ion: 82 Resp: 260641

Ion Ratio Lower Upper

82 100

128 37.2 51.0 76.6#

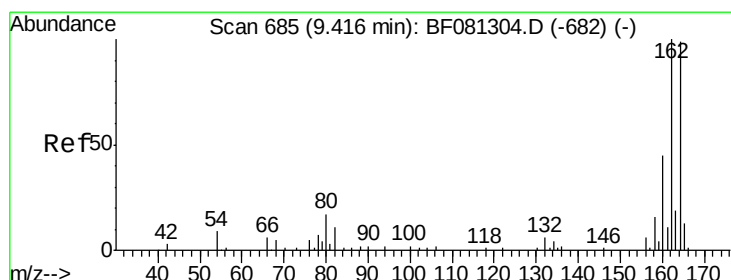
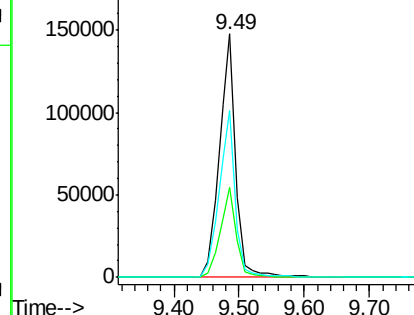
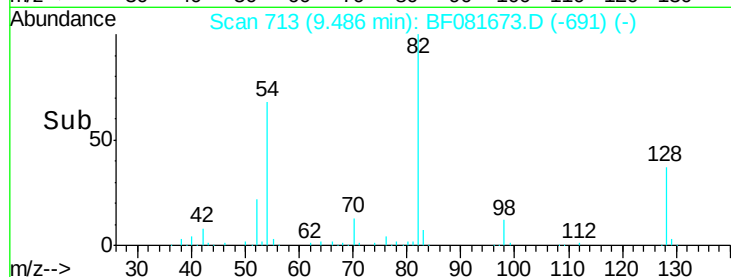
54 68.3 47.5 71.3



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 15.21 min Scan# 1214

Delta R.T. -0.05 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

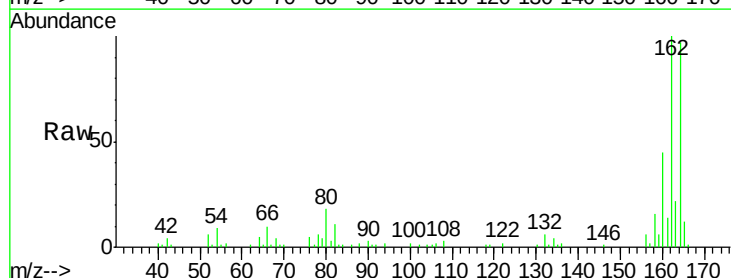
Tgt Ion: 164 Resp: 75557

Ion Ratio Lower Upper

164 100

162 102.8 75.2 112.8

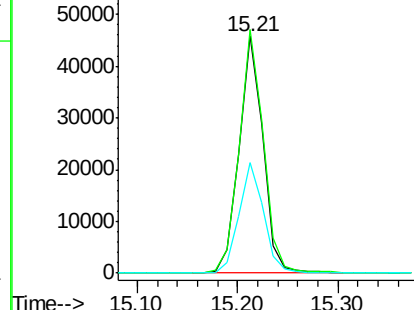
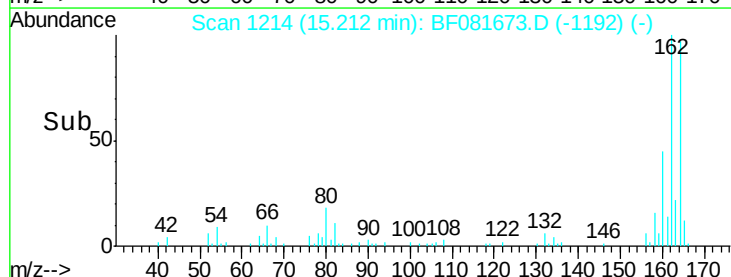
160 46.7 31.5 47.3

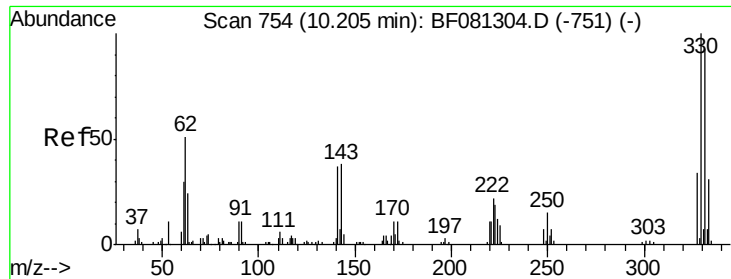


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

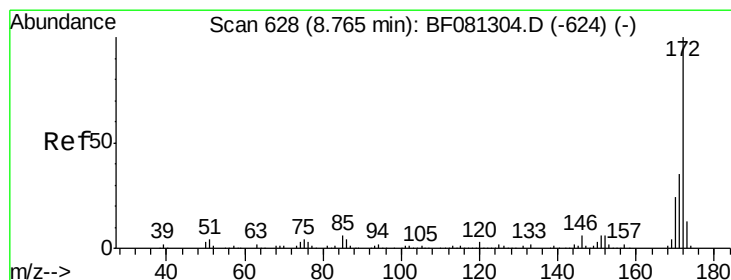
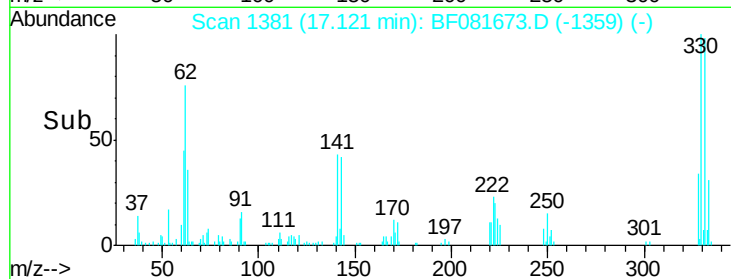
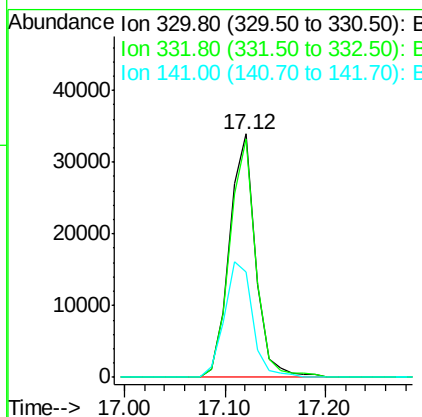
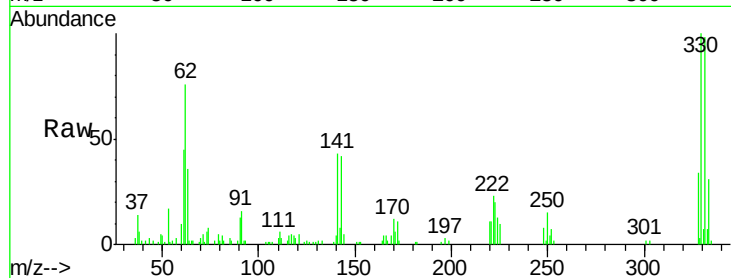




#41
 2,4,6-Tribromophenol
 Concen: 91.11 ng
 RT: 17.12 min Scan# 1381
 Delta R.T. -0.05 min
 Lab File: BF081673.D
 Acq: 17 Sep 2015 9:05

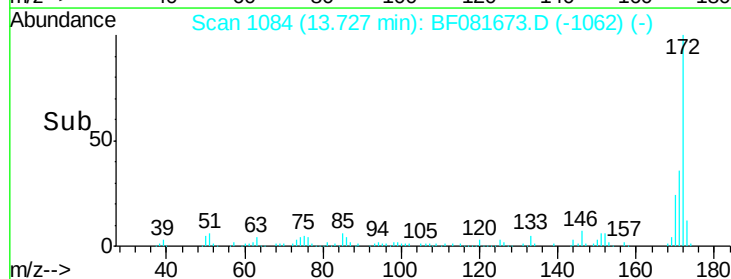
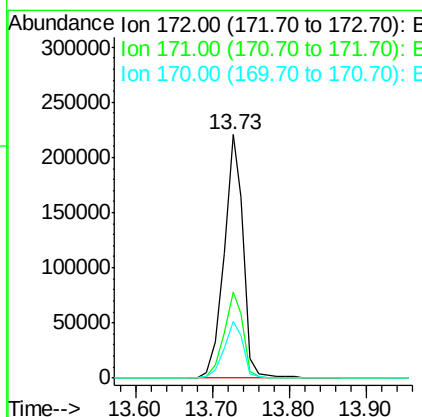
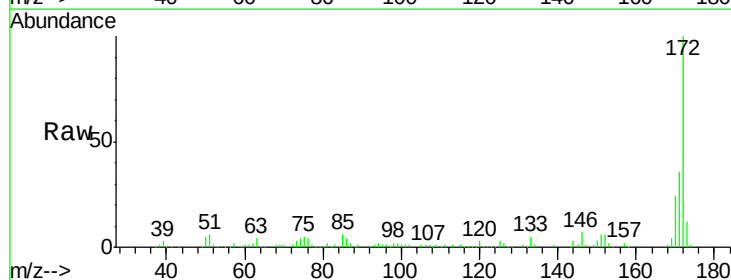
Instrument :
 BNA_F
 ClientSampleId :
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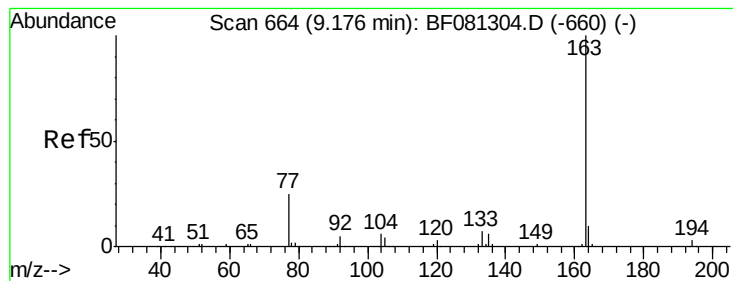
Tgt Ion:330 Resp: 61293
 Ion Ratio Lower Upper
 330 100
 332 97.5 76.6 114.8
 141 51.0 29.7 44.5#



#44
 2-Fluorobiphenyl
 Concen: 65.87 ng
 RT: 13.73 min Scan# 1084
 Delta R.T. -0.05 min
 Lab File: BF081673.D
 Acq: 17 Sep 2015 9:05

Tgt Ion:172 Resp: 388368
 Ion Ratio Lower Upper
 172 100
 171 35.6 26.1 39.1
 170 23.5 17.4 26.2





#49

Dimethylphthalate

Concen: 15.47 ng

RT: 14.78 min Scan# 1176

Delta R.T. -0.08 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

Instrument :

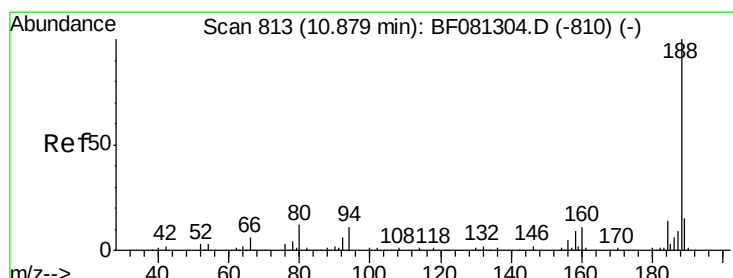
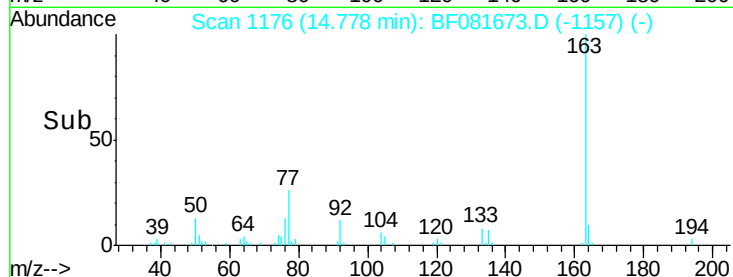
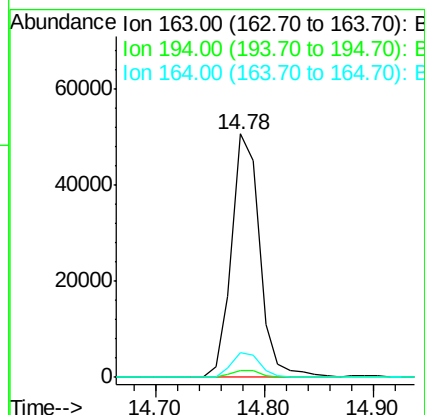
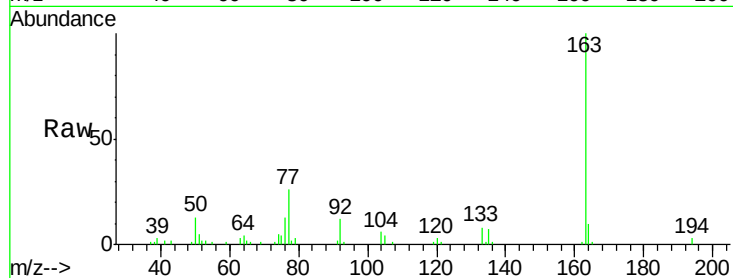
BNA_F

ClientSampleId :

LIME-TOPSOIL

Tgt Ion:163 Resp: 90817

Ion	Ratio	Lower	Upper
163	100		
194	2.8	4.4	6.6#
164	10.3	8.3	12.5



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 18.72 min Scan# 1521

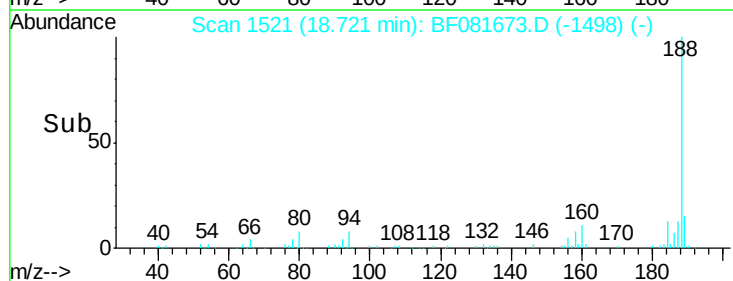
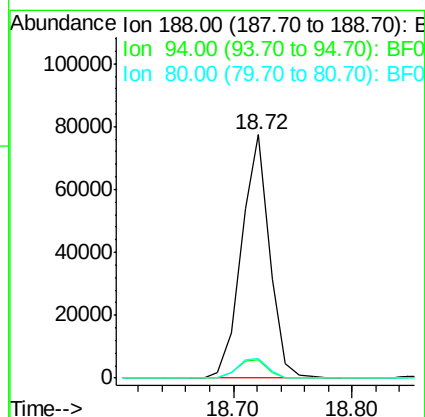
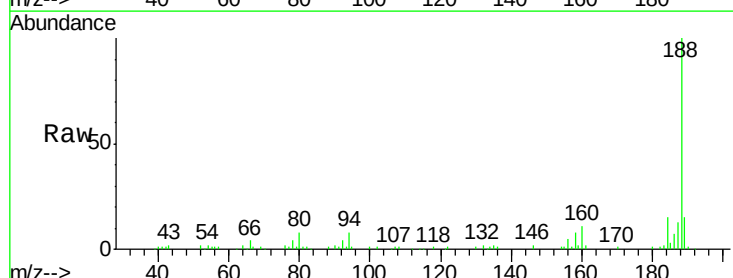
Delta R.T. -0.03 min

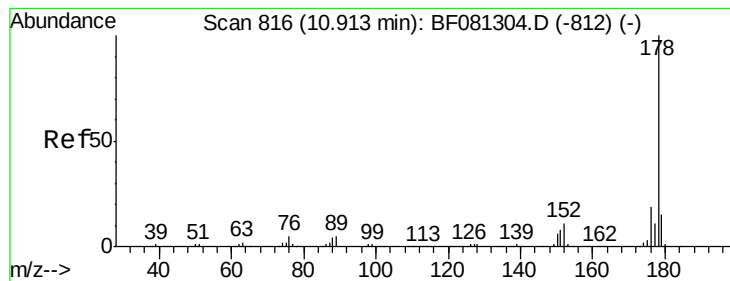
Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

Tgt Ion:188 Resp: 126604

Ion	Ratio	Lower	Upper
188	100		
94	7.6	11.1	16.7#
80	8.1	11.0	16.4#





#70

Phenanthrene

Concen: 4.99 ng

RT: 18.77 min Scan# 1525

Delta R.T. -0.06 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOIL

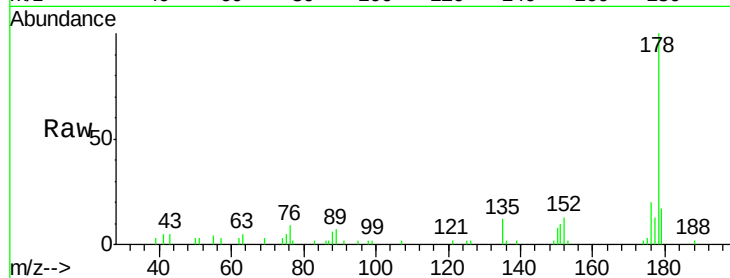
Tgt Ion:178 Resp: 35098

Ion Ratio Lower Upper

178 100

176 19.8 13.8 20.8

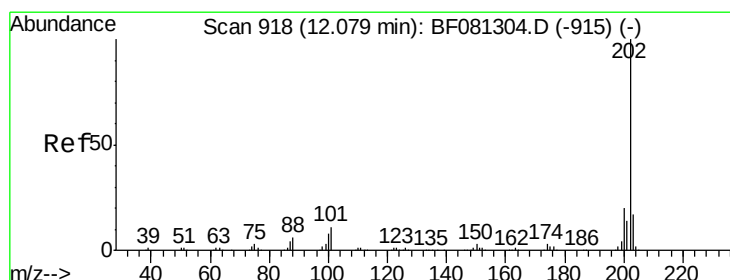
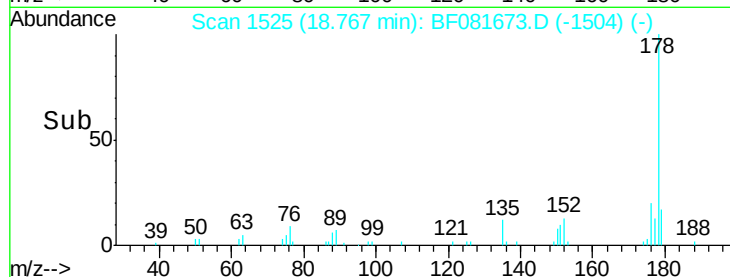
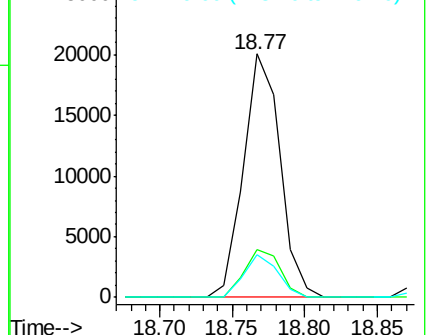
179 17.3 12.2 18.2



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: 12.26 ng

RT: 21.40 min Scan# 1755

Delta R.T. -0.03 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

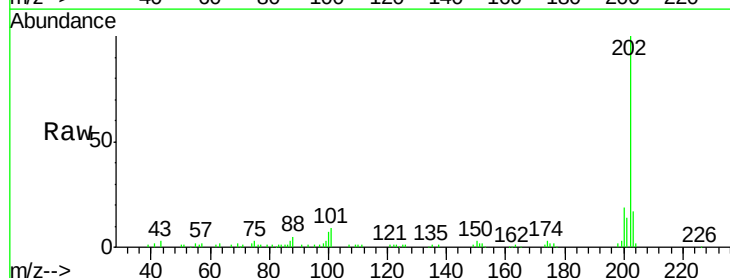
Tgt Ion:202 Resp: 93432

Ion Ratio Lower Upper

202 100

101 9.4 0.0 38.3

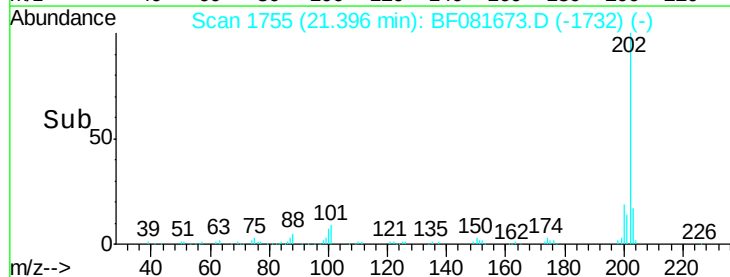
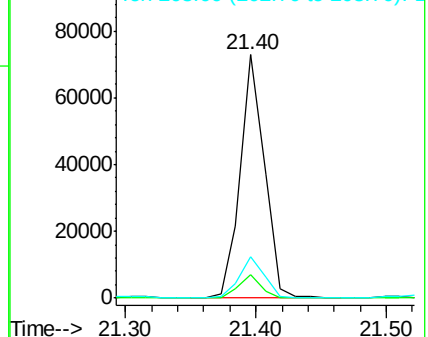
203 17.0 0.0 37.3

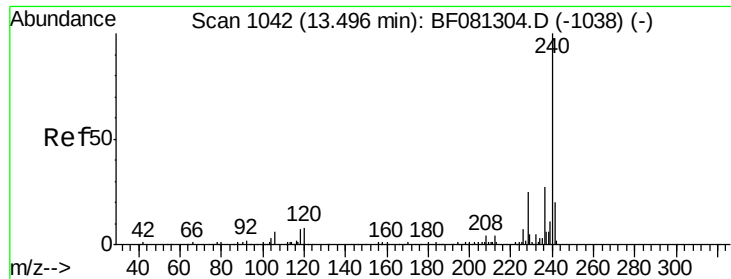


Abundance Ion 202.00 (201.70 to 202.70): E

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: 23.36 min Scan# 1927

Delta R.T. -0.02 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOIL

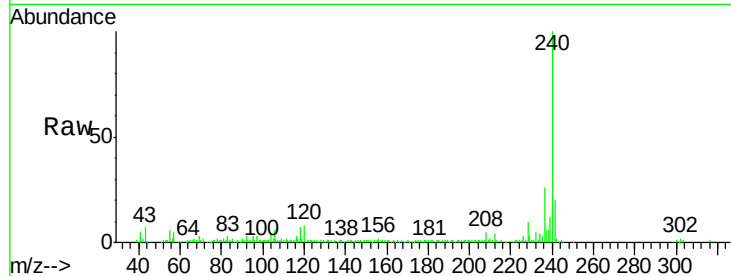
Tgt Ion:240 Resp: 99054

Ion Ratio Lower Upper

240 100

120 8.1 16.2 24.2#

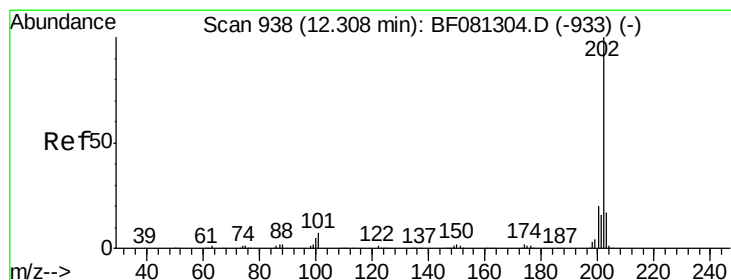
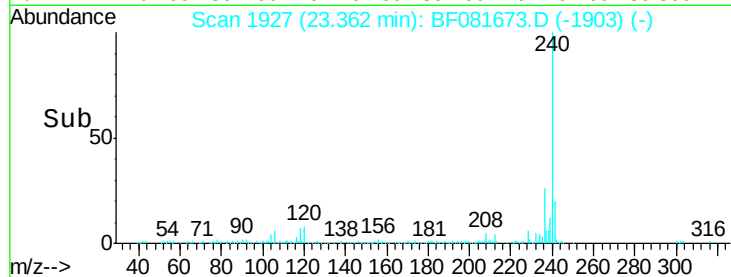
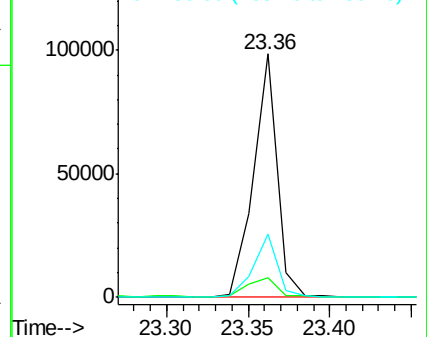
236 25.9 18.4 27.6



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 11.22 ng

RT: 21.75 min Scan# 1786

Delta R.T. -0.03 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

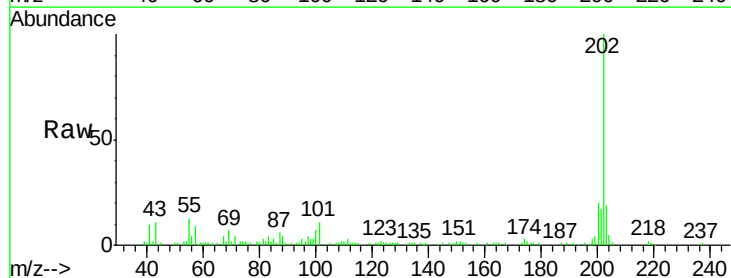
Tgt Ion:202 Resp: 82311

Ion Ratio Lower Upper

202 100

200 19.7 15.0 22.4

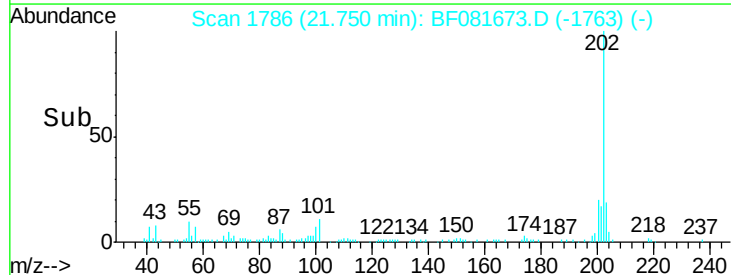
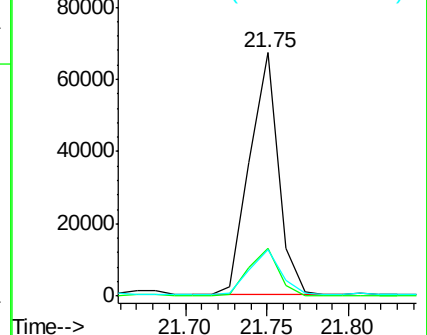
203 19.3 14.1 21.1

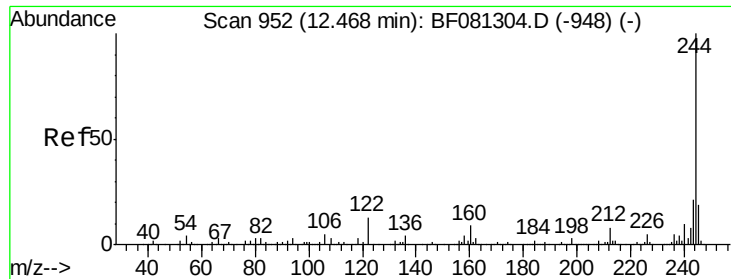


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 53.43 ng

RT: 22.08 min Scan# 1815

Delta R.T. -0.03 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOIL

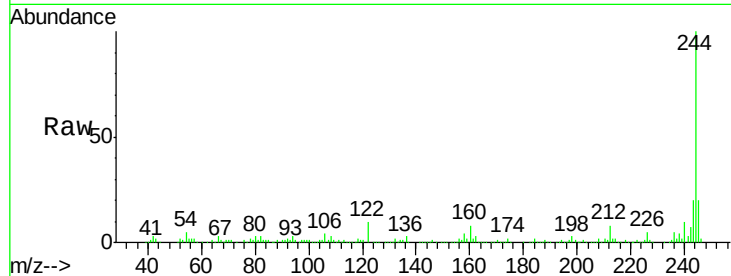
Tgt Ion:244 Resp: 227376

Ion Ratio Lower Upper

244 100

212 8.0 4.3 6.5#

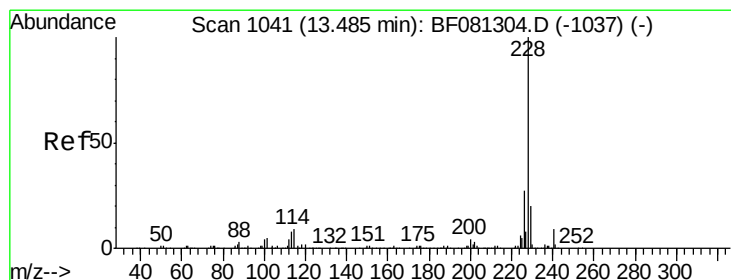
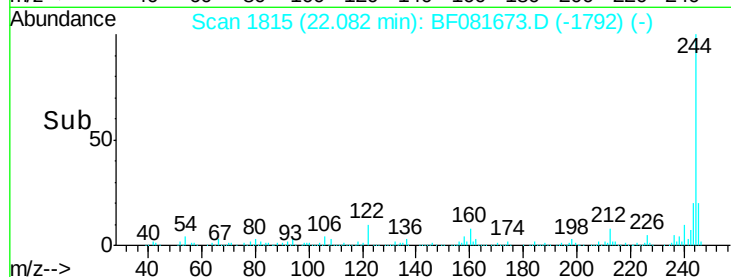
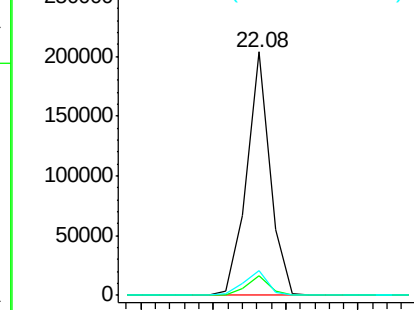
122 10.3 17.4 26.2#



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: 6.88 ng

RT: 23.35 min Scan# 1926

Delta R.T. -0.02 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

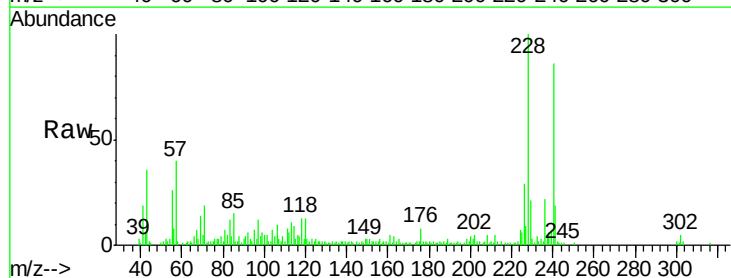
Tgt Ion:228 Resp: 43412

Ion Ratio Lower Upper

228 100

226 28.8 20.0 30.0

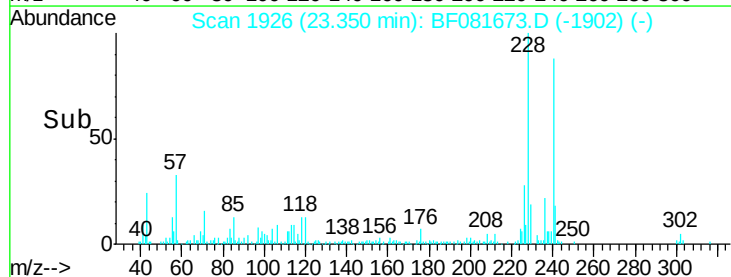
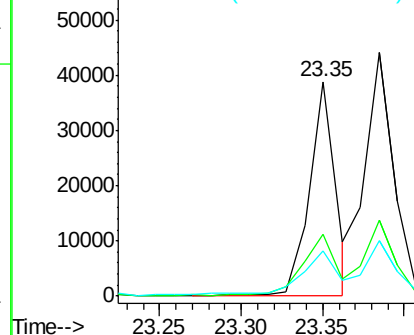
229 21.2 15.4 23.2

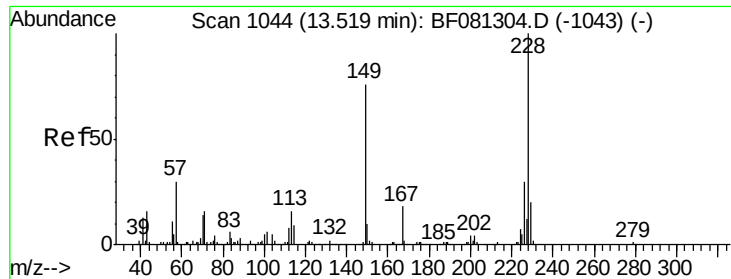


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 9.59 ng

RT: 23.38 min Scan# 1929

Delta R.T. -0.03 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOIL

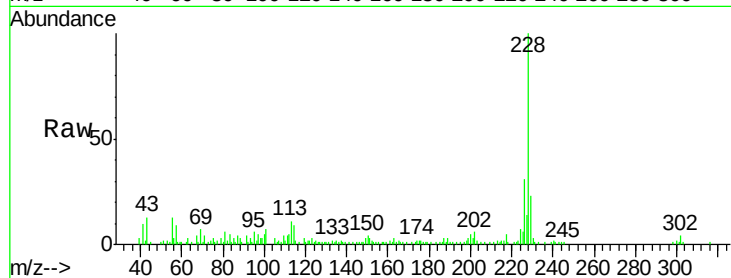
Tgt Ion:228 Resp: 54230

Ion Ratio Lower Upper

228 100

226 31.0 21.0 31.4

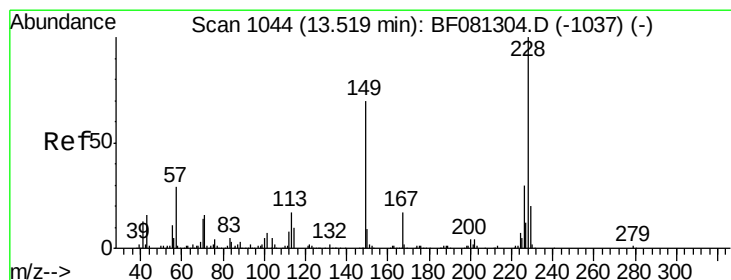
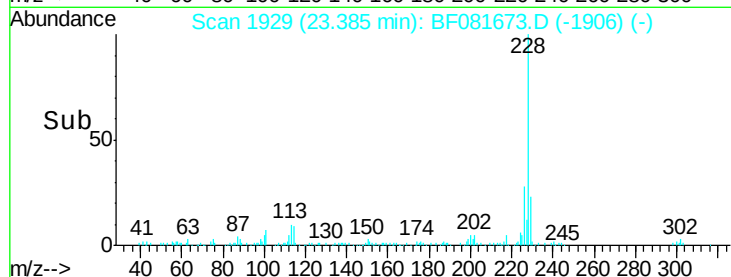
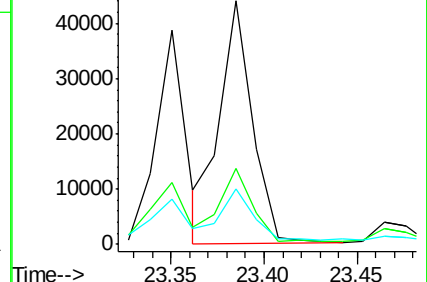
229 22.6 15.6 23.4



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.55 ng

RT: 23.48 min Scan# 1937

Delta R.T. -0.02 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

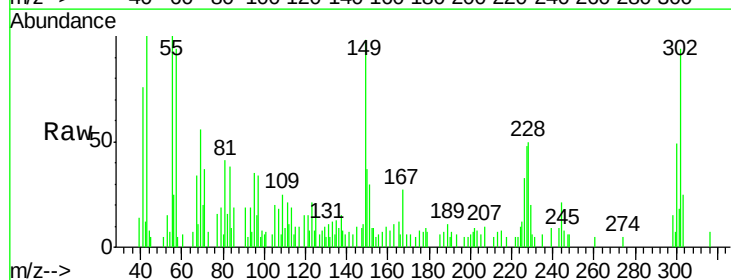
Tgt Ion:149 Resp: 10720

Ion Ratio Lower Upper

149 100

167 27.1 24.2 36.2

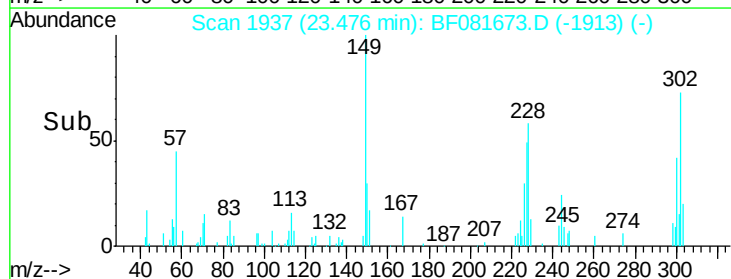
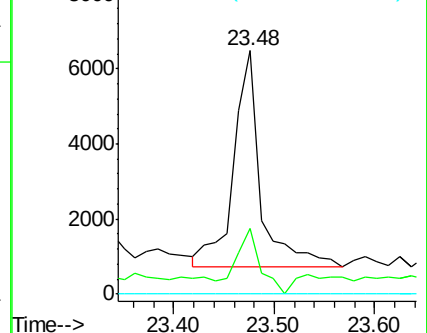
279 0.0 3.8 5.6#

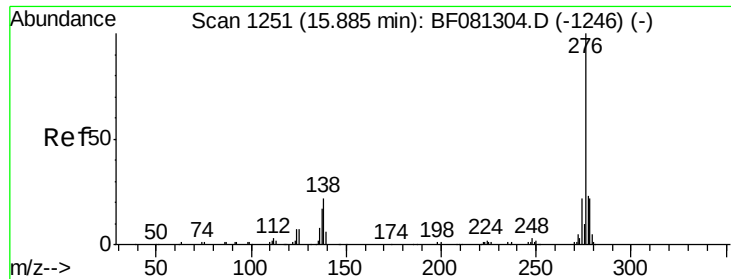


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

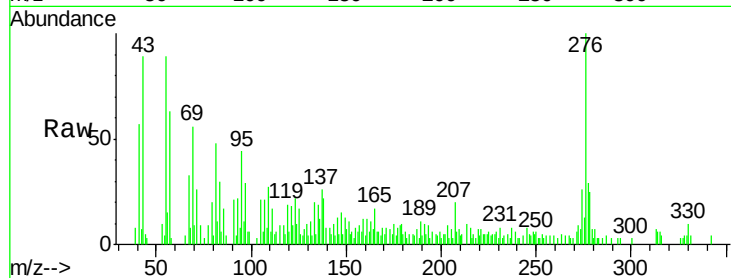




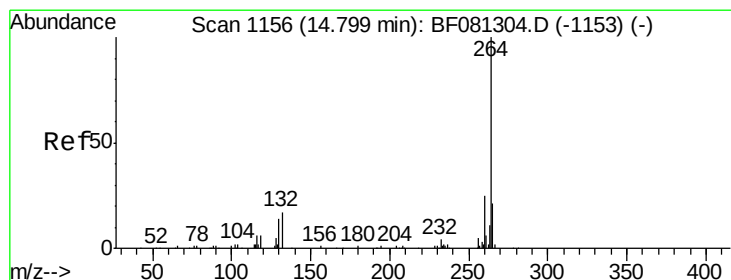
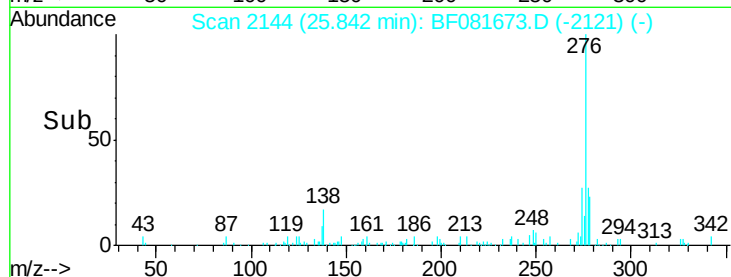
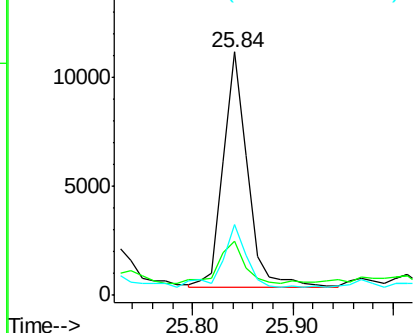
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.42 ng
 RT: 25.84 min Scan# 2144
 Delta R.T. -0.03 min
 Lab File: BF081673.D
 Acq: 17 Sep 2015 9:05

Instrument :
 BNA_F
 ClientSampleId :
 LIME-TOPSOIL

Tgt Ion: 276 Resp: 18347
 Ion Ratio Lower Upper
 276 100
 138 20.6 25.7 38.5#
 277 26.3 15.6 23.4#

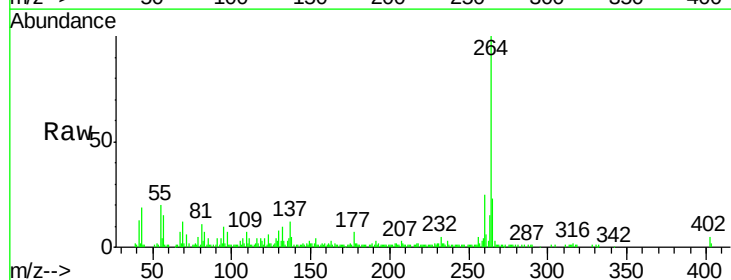


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

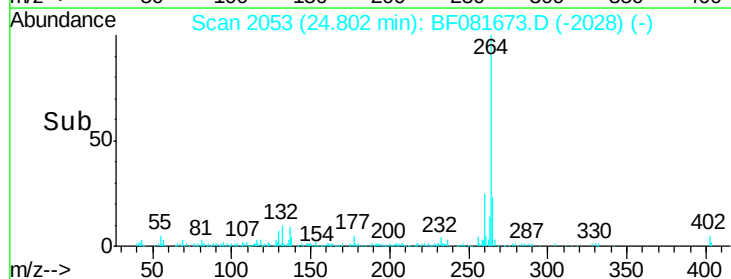
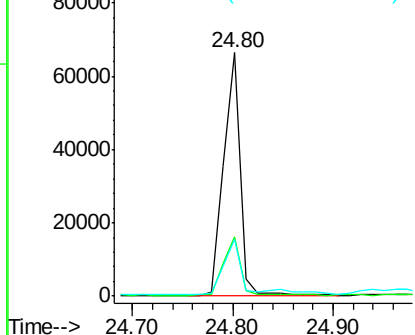


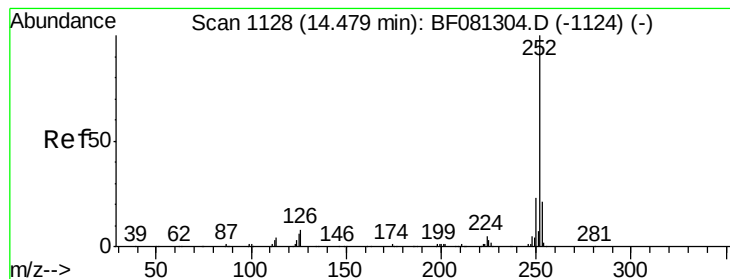
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 24.80 min Scan# 2053
 Delta R.T. -0.01 min
 Lab File: BF081673.D
 Acq: 17 Sep 2015 9:05

Tgt Ion: 264 Resp: 76464
 Ion Ratio Lower Upper
 264 100
 260 24.6 16.7 25.1
 265 23.4 17.2 25.8



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

Benzo(b)fluoranthene

Concen: 15.10 ng

RT: 24.46 min Scan# 2023

Delta R.T. -0.02 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOIL

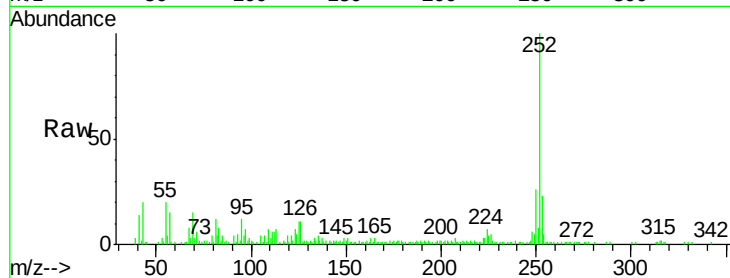
Tgt Ion:252 Resp: 82424

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

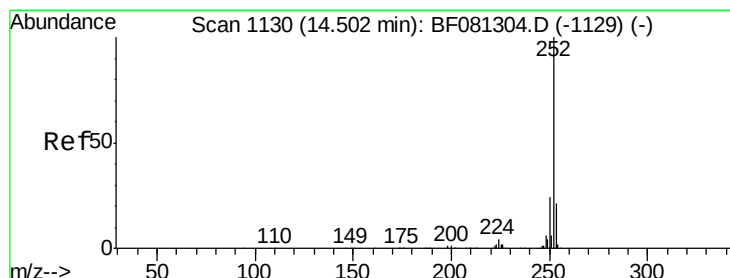
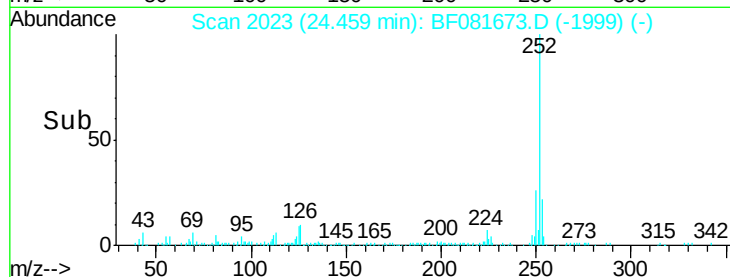
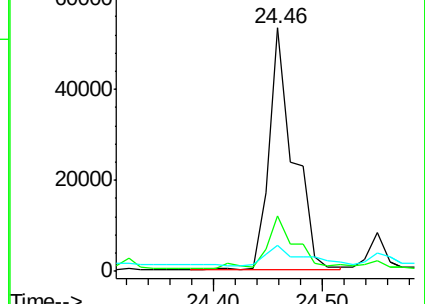
125 10.9 17.1 25.7#



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: 6.81 ng

RT: 24.70 min Scan# 2044

Delta R.T. 0.19 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

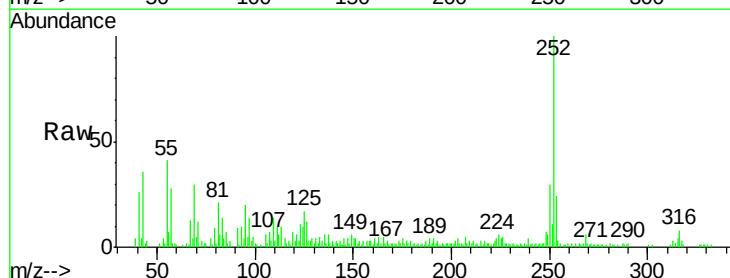
Tgt Ion:252 Resp: 30835

Ion Ratio Lower Upper

252 100

253 23.8 17.0 25.4

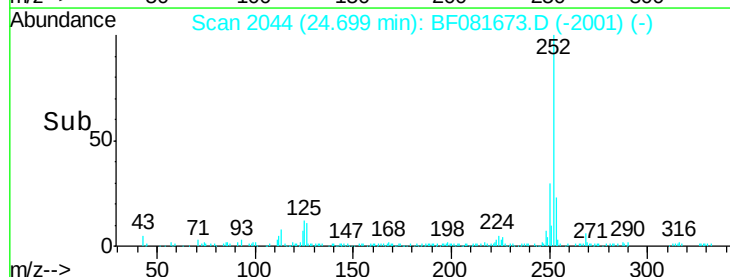
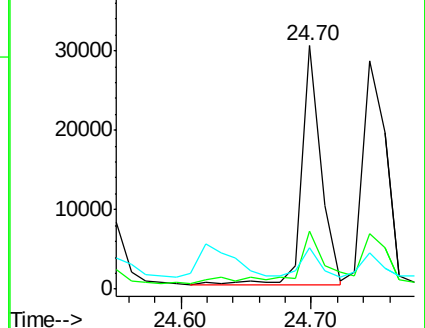
125 17.0 16.0 24.0

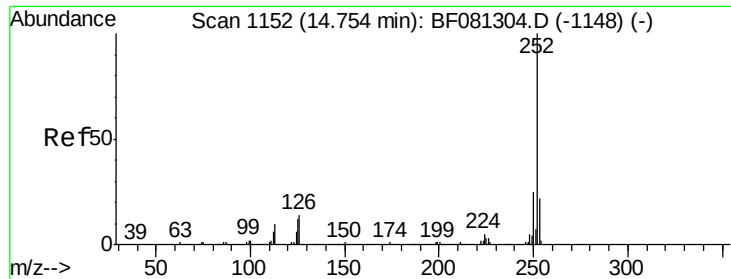


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 7.51 ng

RT: 24.74 min Scan# 2048

Delta R.T. -0.02 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOIL

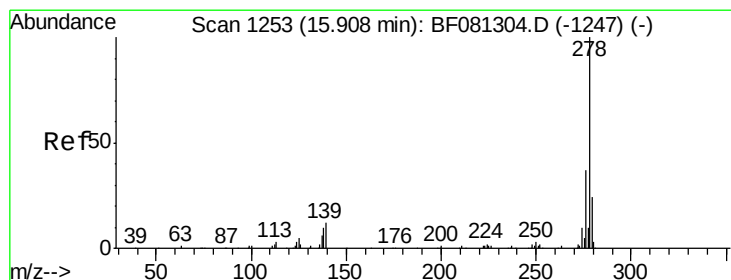
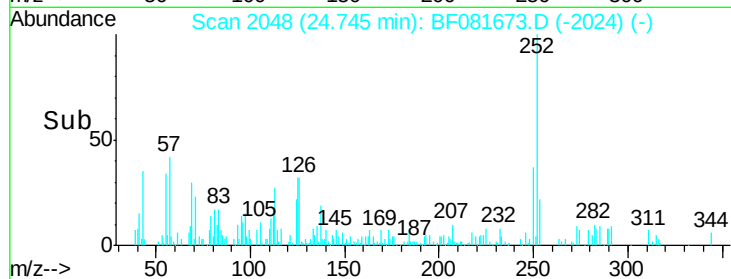
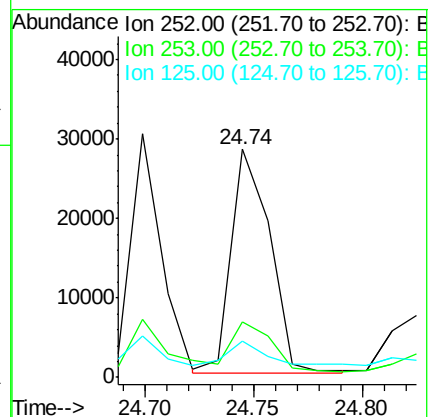
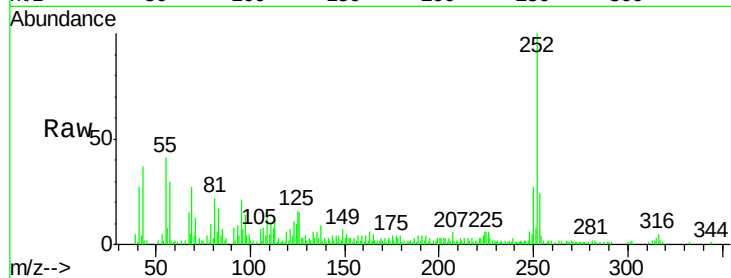
Tgt Ion:252 Resp: 34718

Ion Ratio Lower Upper

252 100

253 24.1 17.2 25.8

125 16.0 18.0 27.0#



#90

Dibenzo(a,h)anthracene

Concen: 2.07 ng

RT: 25.84 min Scan# 2144

Delta R.T. -0.05 min

Lab File: BF081673.D

Acq: 17 Sep 2015 9:05

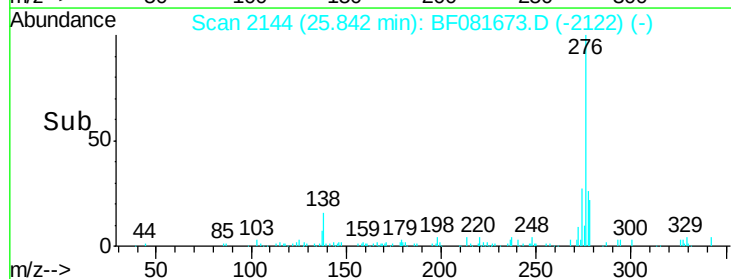
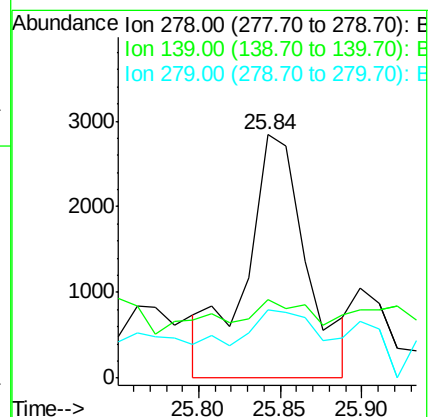
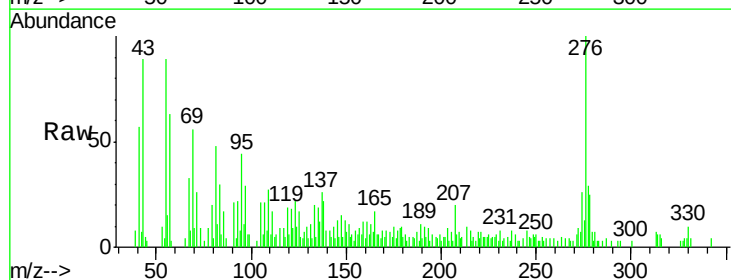
Tgt Ion:278 Resp: 7405

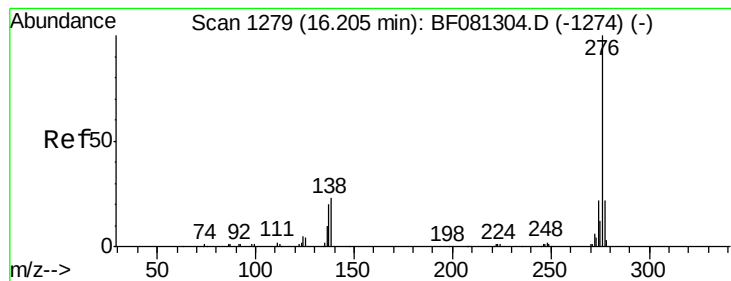
Ion Ratio Lower Upper

278 100

139 32.0 26.3 39.5

279 28.2 18.2 27.4#





#91

Benzo(g,h,i)perylene

Concen: 5.09 ng

RT: 26.15 min Scan# 2171

Delta R.T. -0.02 min

Lab File: BF081673.D

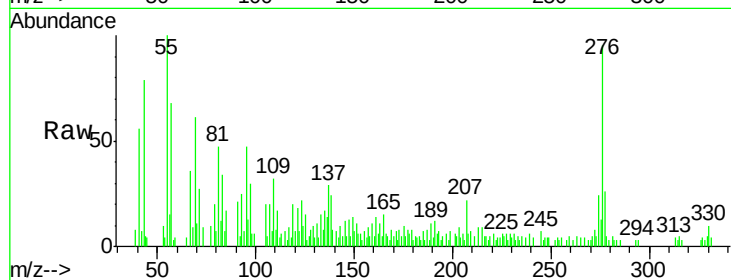
Acq: 17 Sep 2015 9:05

Instrument :

BNA_F

ClientSampleId :

LIME-TOPSOIL



Tgt Ion:	276	Resp:	17378
Ion	Ratio	Lower	Upper
276	100		
277	27.6	17.8	26.6#
138	25.3	34.6	51.8#

