

Data Path : Z:\HPCHEM1\BNA_E\Data\BE010715\
 Data File : BE089352.D
 Acq On : 8 Jan 2015 7:29
 Operator : TP/IZ
 Sample : G1001-03
 Misc : LOD-SOIL-0.5PPM-SIM
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOD-SOIL2015-01

Quant Time: Jan 08 15:49:42 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BASE-BE010715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 08 15:21:44 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	12039	5.00	ng	0.00
2) Naphthalene-d8	8.51	136	50531	5.00	ng	0.00
6) Acenaphthene-d10	10.65	164	27867	5.00	ng	0.00
11) Phenanthrene-d10	12.72	188	43200	5.00	ng	0.00
15) Chrysene-d12	18.06	240	24863	5.00	ng	0.00
21) Perylene-d12	21.11	264	24960	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	7.64	82	23800	6.77	ng	0.00
7) 2-Fluorobiphenyl	9.85	172	46247	6.09	ng	0.00
17) Terphenyl-d14	15.84	244	33778	7.67	ng	0.00

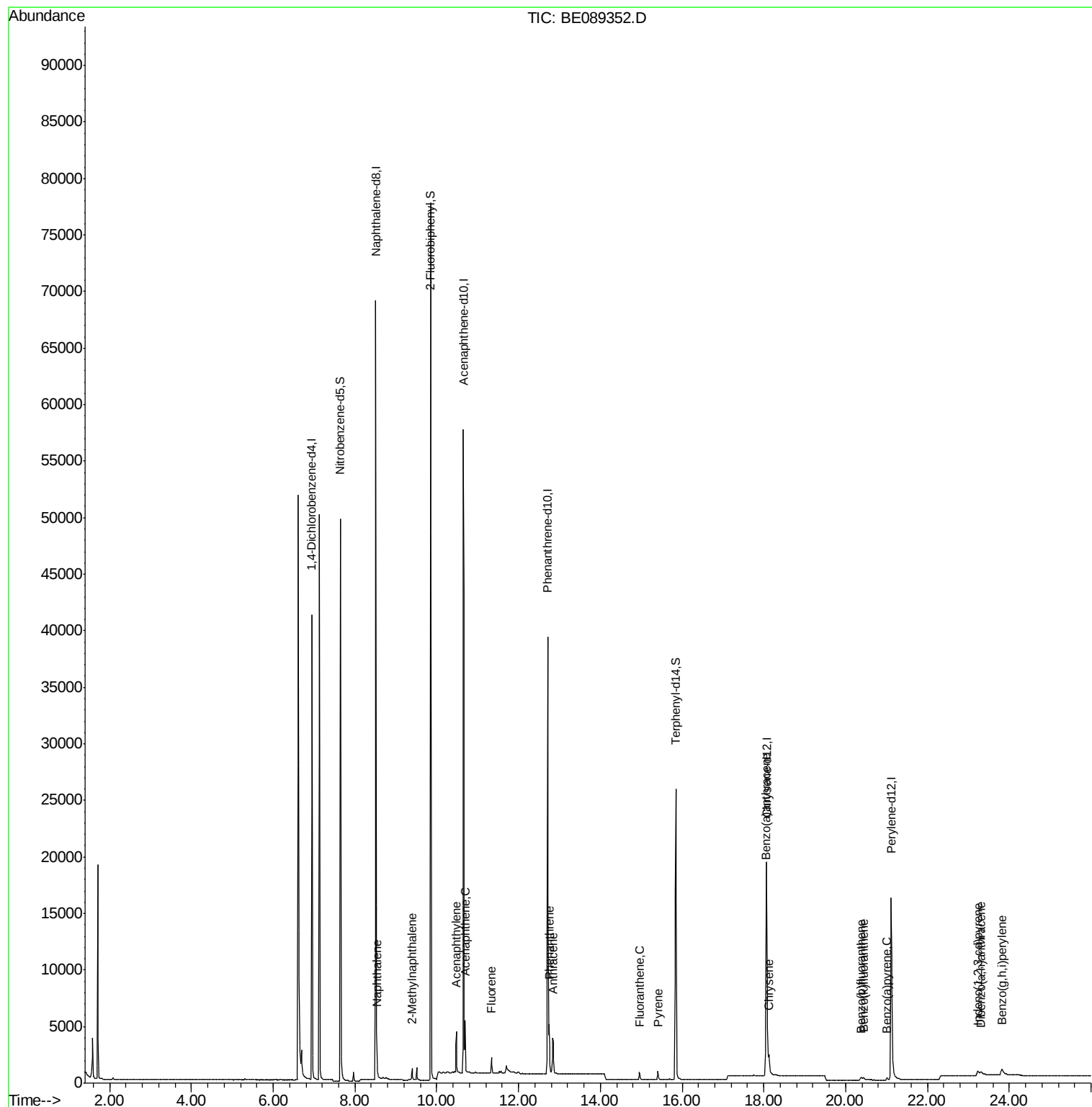
Target Compounds						Qvalue
4) Naphthalene	8.54	128	873	0.08	ng	# 89
5) 2-Methylnaphthalene	9.39	142	628	0.09	ng	# 97
8) Acenaphthylene	10.48	152	3967	0.08	ng	# 86
9) Acenaphthene	10.69	154	744	0.10	ng	# 88
10) Fluorene	11.34	166	694	0.09	ng	# 98
12) Phenanthrene	12.75	178	4166	0.09	ng	# 91
13) Anthracene	12.84	178	3665	0.08	ng	# 85
14) Fluoranthene	14.96	202	791	0.08	ng	# 85
16) Pyrene	15.41	202	786	0.10	ng	# 84
18) Benzo(a)anthracene	18.05	228	2353	0.09	ng	# 82
19) Chrysene	18.13	228	2375	0.09	ng	# 80
20) Indeno(1,2,3-cd)pyrene	23.24	276	1851	0.08	ng	# 77
22) Benzo(b)fluoranthene	20.38	252	386	0.07	ng	# 62
23) Benzo(k)fluoranthene	20.43	252	561	0.08	ng	# 64
24) Benzo(a)pyrene	21.01	252	410	0.08	ng	# 61
25) Dibenzo(a,h)anthracene	23.31	278	342	0.07	ng	# 39
26) Benzo(g,h,i)perylene	23.82	276	1854	0.07	ng	# 56

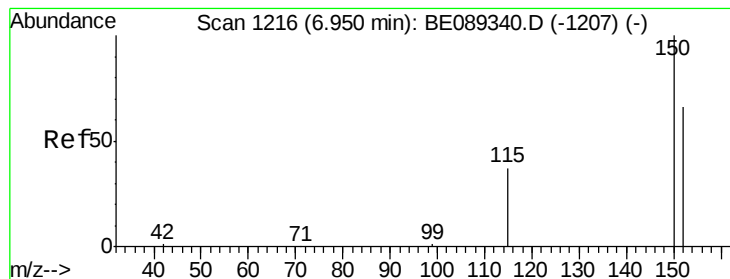
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.95 min Scan# 1216

Delta R.T. -0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

Instrument :

BNA_E

ClientSampleId :

LOD-SOIL2015-01

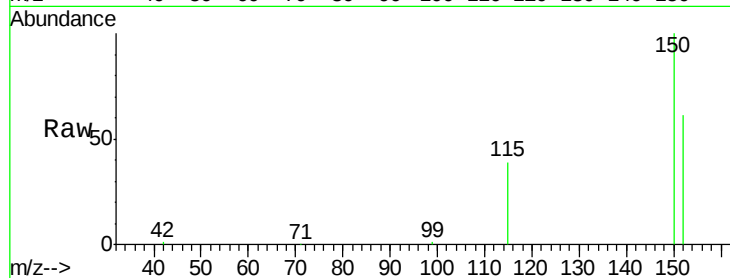
Tgt Ion:152 Resp: 12039

Ion Ratio Lower Upper

152 100

150 163.3 121.5 182.3

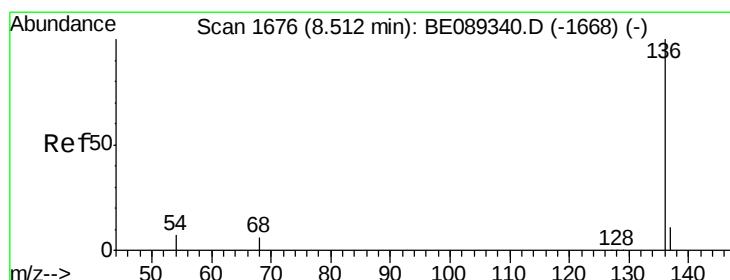
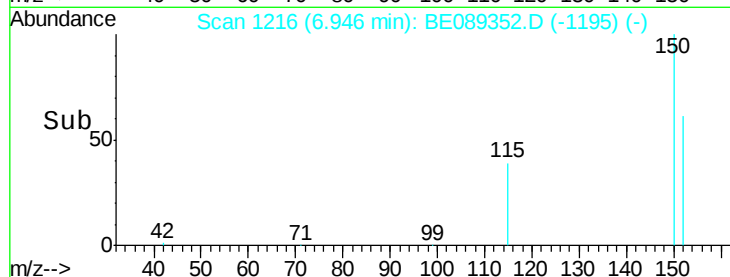
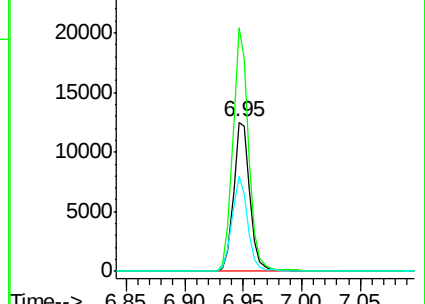
115 64.1 45.2 67.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 8.51 min Scan# 1676

Delta R.T. -0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

Tgt Ion:136 Resp: 50531

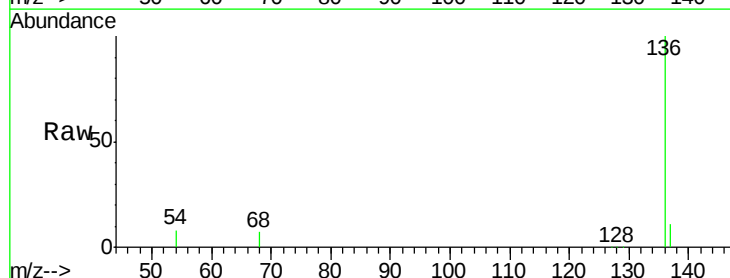
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 7.9 5.4 8.0

68 7.0 4.7 7.1

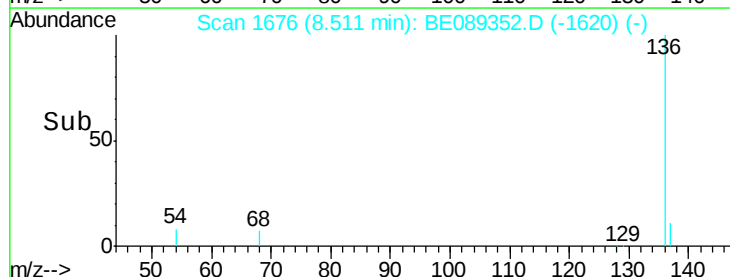
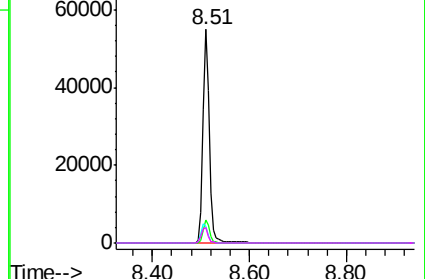


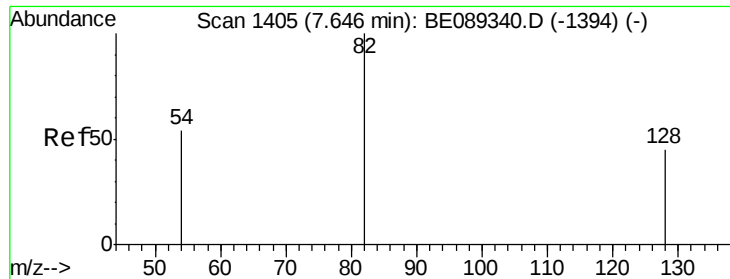
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#3

Nitrobenzene-d5

Concen: 6.77 ng

RT: 7.64 min Scan# 1405

Delta R.T. -0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

Instrument :

BNA_E

ClientSampleId :

LOD-SOIL2015-01

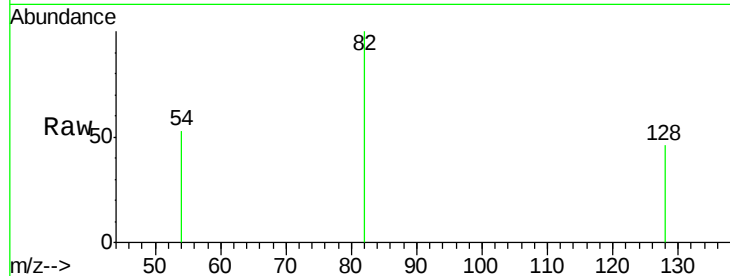
Tgt Ion: 82 Resp: 23800

Ion Ratio Lower Upper

82 100

128 46.1 36.5 54.7

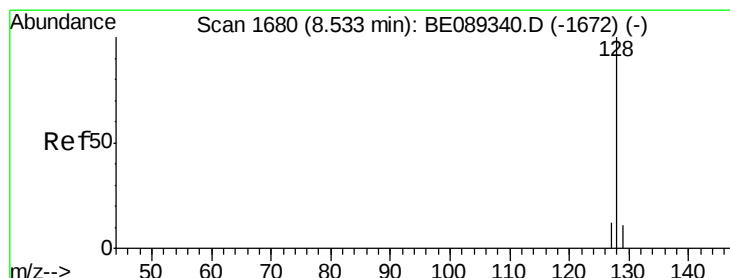
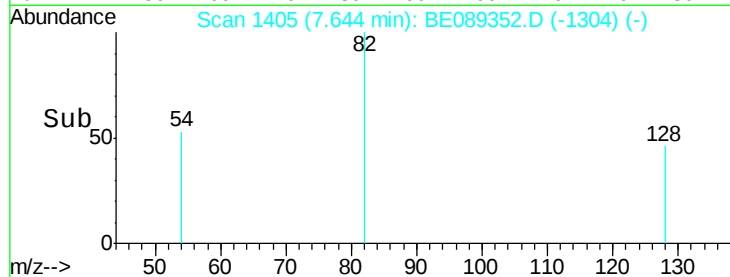
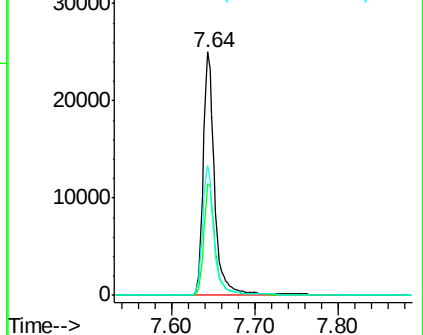
54 53.2 43.5 65.3



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.08 ng

RT: 8.54 min Scan# 1681

Delta R.T. 0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

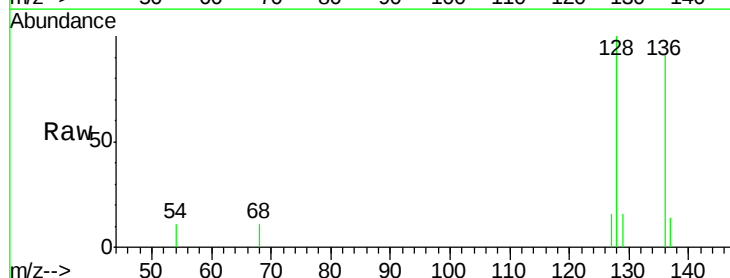
Tgt Ion: 128 Resp: 873

Ion Ratio Lower Upper

128 100

129 16.3 8.8 13.2#

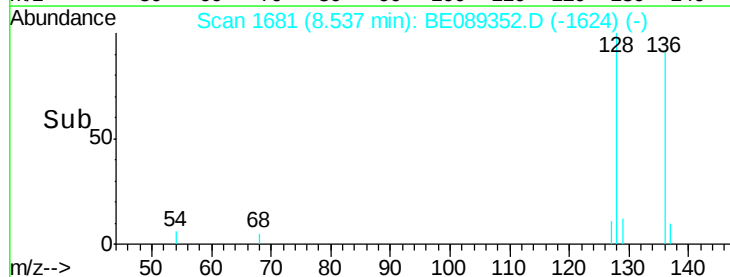
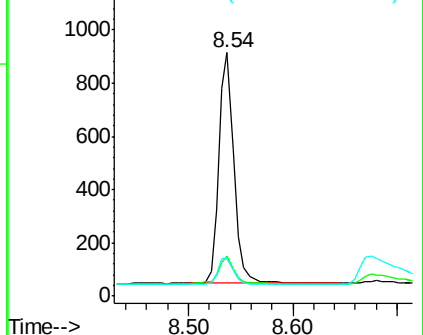
127 15.6 10.0 15.0#

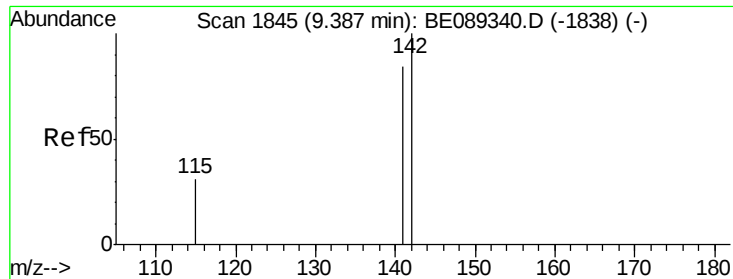


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.09 ng

RT: 9.39 min Scan# 1846

Delta R.T. 0.01 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

Instrument :

BNA_E

ClientSampleId :

LOD-SOIL2015-01

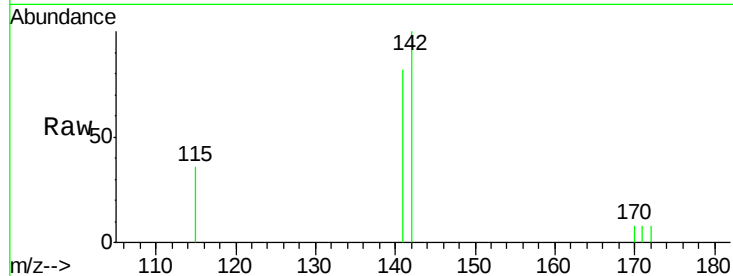
Tgt Ion:142 Resp: 628

Ion Ratio Lower Upper

142 100

141 82.0 66.3 99.5

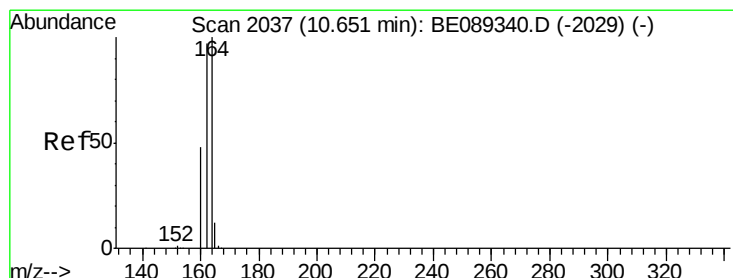
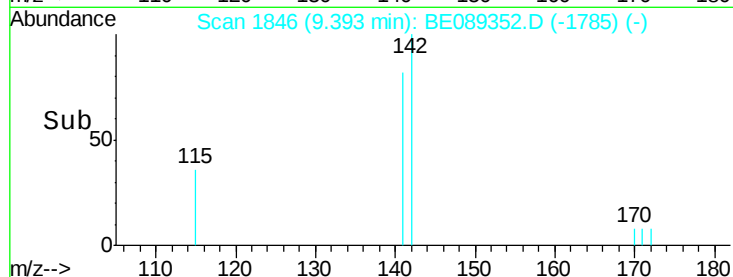
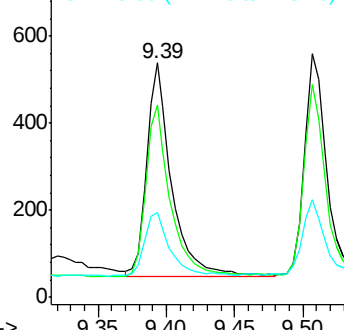
115 36.2 25.2 37.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.65 min Scan# 2036

Delta R.T. -0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

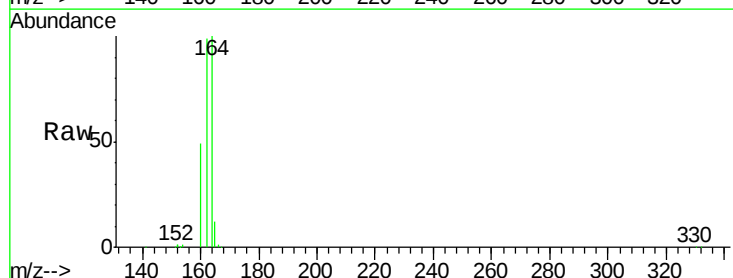
Tgt Ion:164 Resp: 27867

Ion Ratio Lower Upper

164 100

162 99.3 77.4 116.2

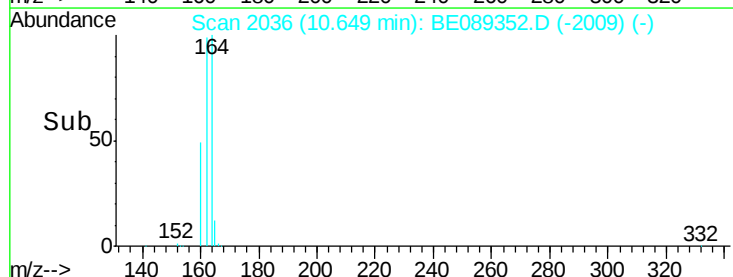
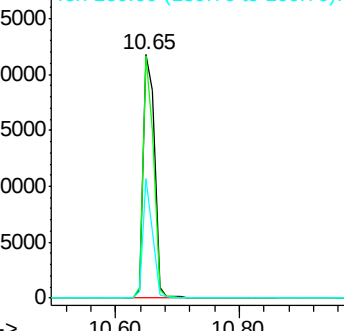
160 49.2 38.2 57.4

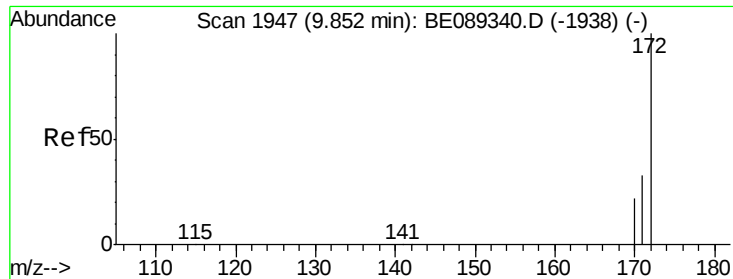


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 6.09 ng

RT: 9.85 min Scan# 1947

Delta R.T. 0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

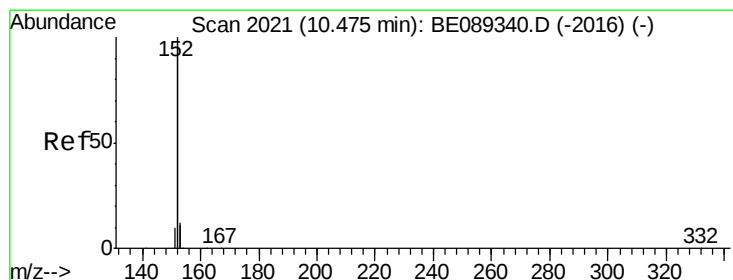
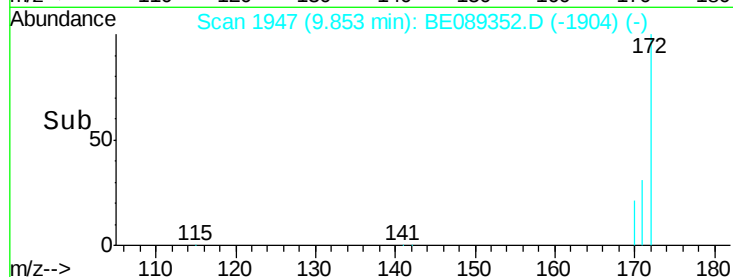
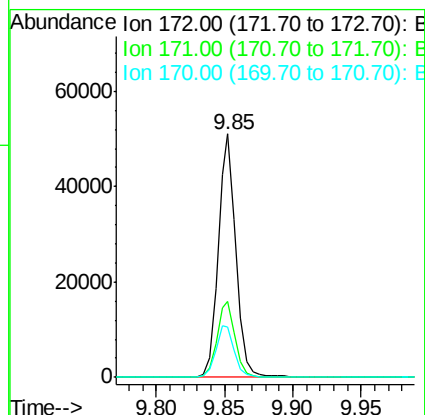
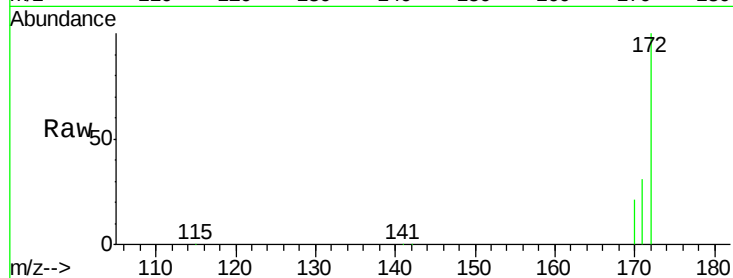
Instrument :

BNA_E

ClientSampleId :

LOD-SOIL2015-01

Tgt Ion:	172	Resp:	46247
Ion	Ratio	Lower	Upper
172	100		
171	31.1	26.4	39.6
170	20.6	18.0	27.0



#8

Acenaphthylene

Concen: 0.08 ng

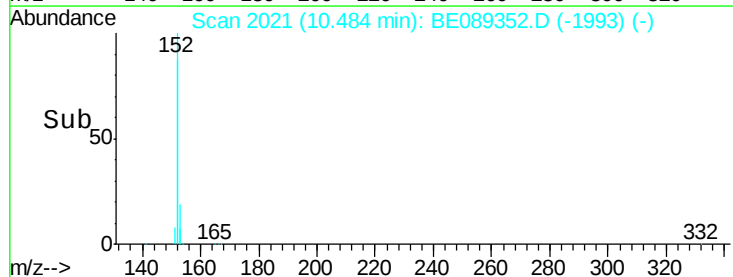
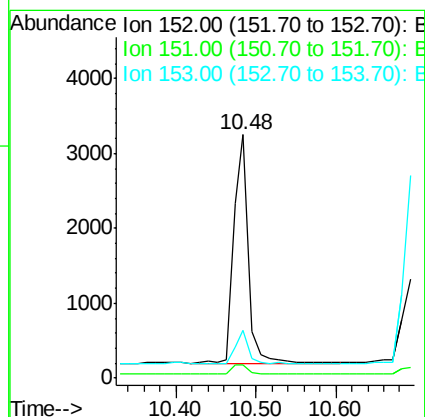
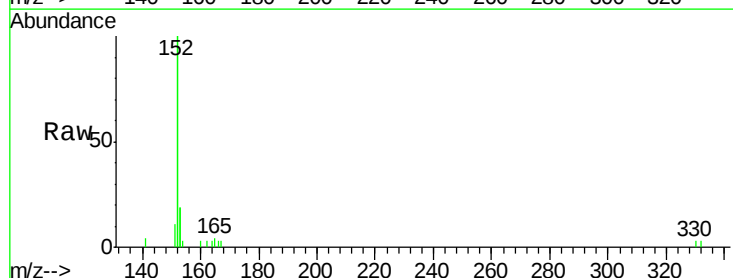
RT: 10.48 min Scan# 2021

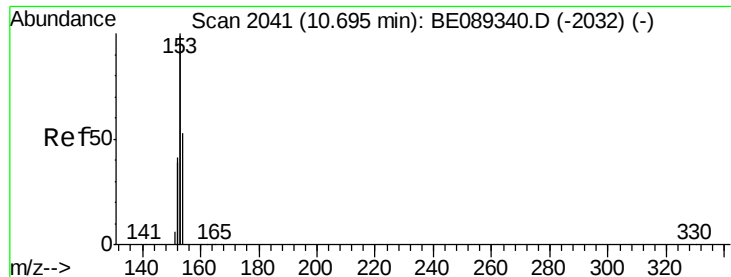
Delta R.T. 0.01 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

Tgt Ion:	152	Resp:	3967
Ion	Ratio	Lower	Upper
152	100		
151	5.5	4.1	6.1
153	19.5	9.8	14.6





#9

Acenaphthene

Concen: 0.10 ng

RT: 10.69 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

Instrument :

BNA_E

ClientSampleId :

LOD-SOIL2015-01

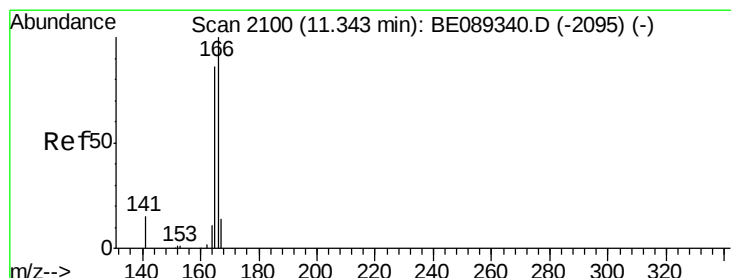
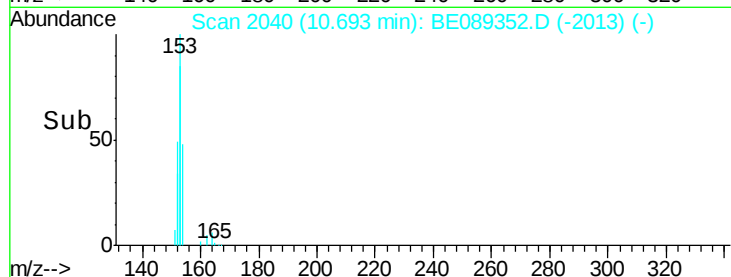
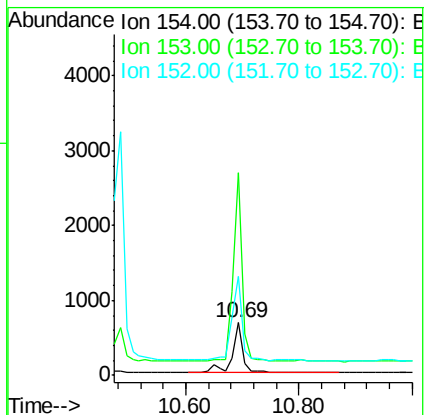
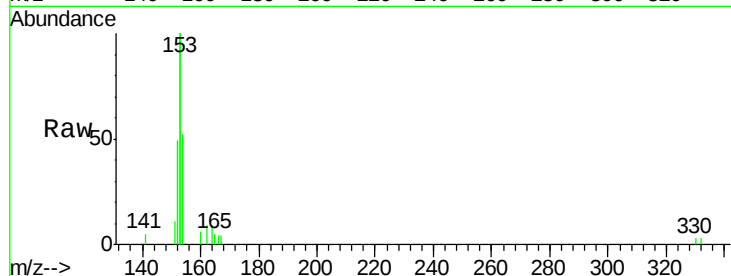
Tgt Ion:154 Resp: 744

Ion Ratio Lower Upper

154 100

153 387.4 300.6 450.8

152 190.0 123.3 184.9#



#10

Fluorene

Concen: 0.09 ng

RT: 11.34 min Scan# 2099

Delta R.T. -0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

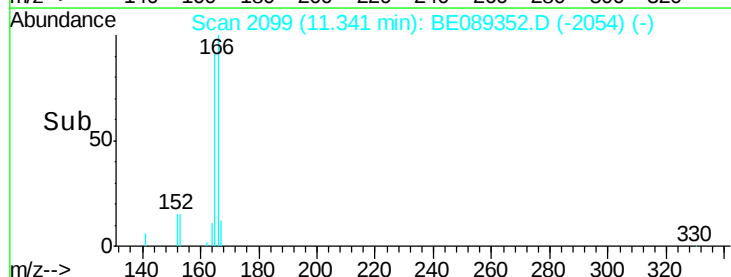
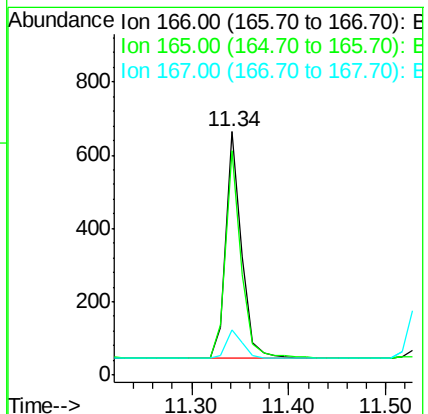
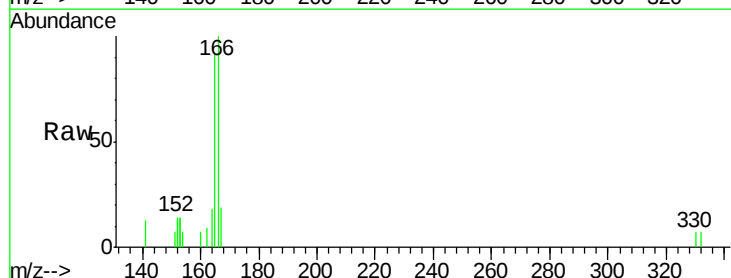
Tgt Ion:166 Resp: 694

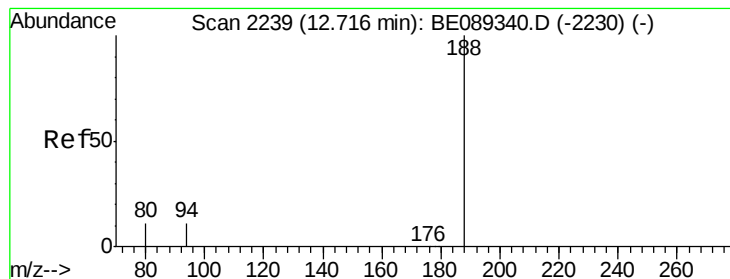
Ion Ratio Lower Upper

166 100

165 92.2 72.1 108.1

167 13.0 11.0 16.4





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.72 min Scan# 2239

Delta R.T. 0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

Instrument :

BNA_E

ClientSampleId :

LOD-SOIL2015-01

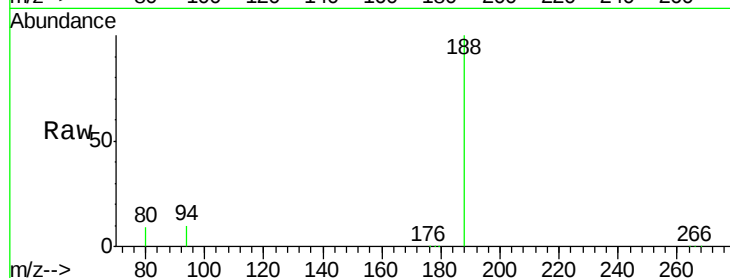
Tgt Ion:188 Resp: 43200

Ion Ratio Lower Upper

188 100

94 10.5 11.0 12.2#

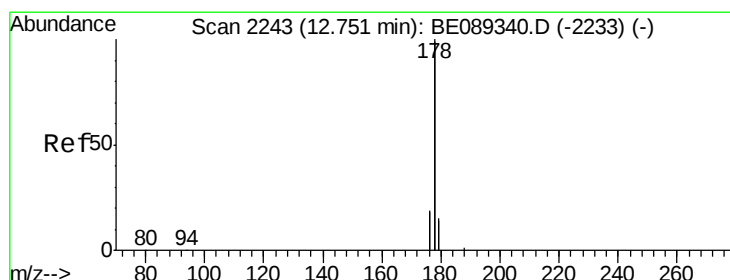
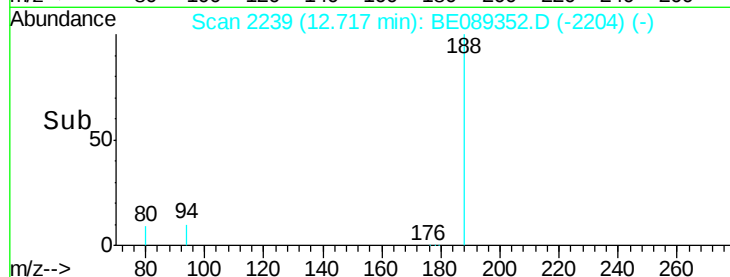
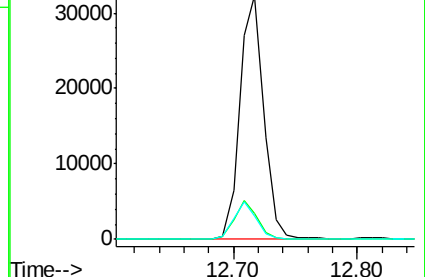
80 9.4 10.1 11.1#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#12

Phenanthrene

Concen: 0.09 ng

RT: 12.75 min Scan# 2243

Delta R.T. 0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

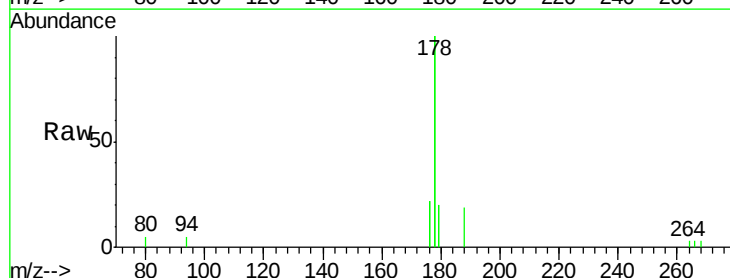
Tgt Ion:178 Resp: 4166

Ion Ratio Lower Upper

178 100

176 22.1 15.1 22.7

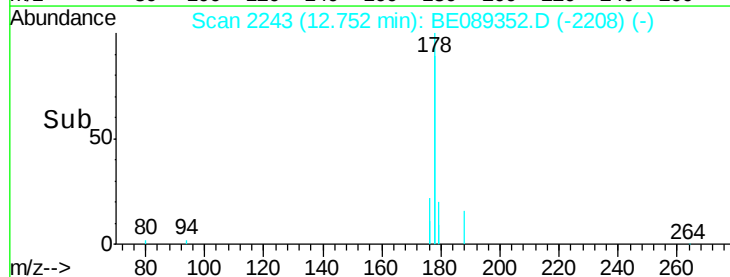
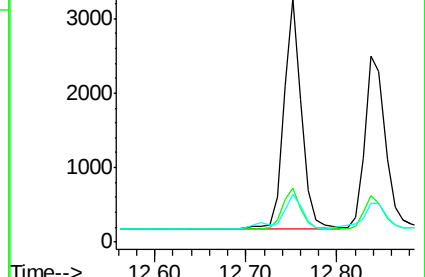
179 19.8 12.2 18.2#

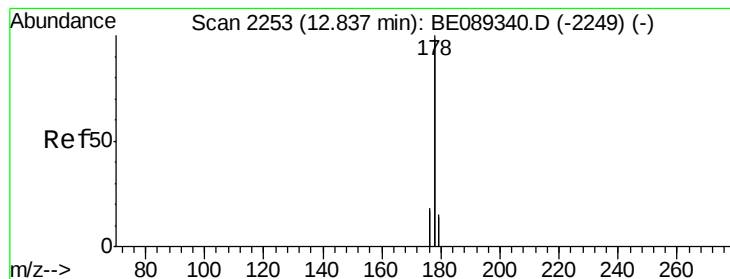


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#13

Anthracene

Concen: 0.08 ng

RT: 12.84 min Scan# 2253

Delta R.T. 0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

Instrument :

BNA_E

ClientSampleId :

LOD-SOIL2015-01

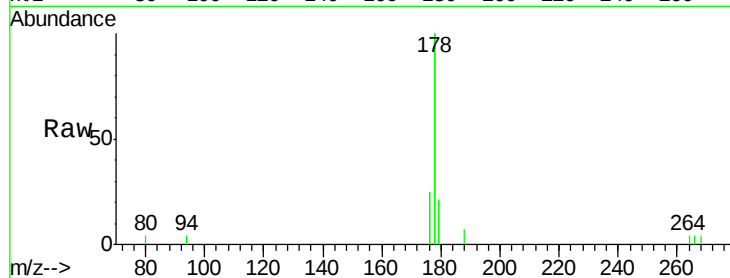
Tgt Ion:178 Resp: 3665

Ion Ratio Lower Upper

178 100

176 25.2 14.7 22.1#

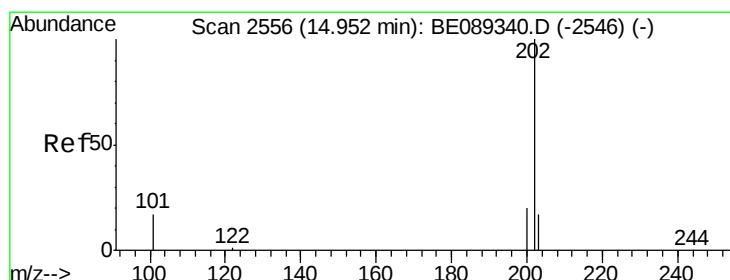
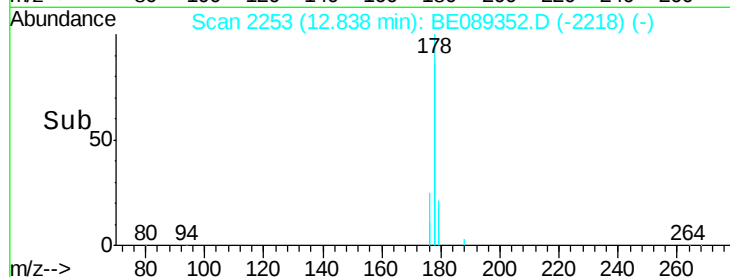
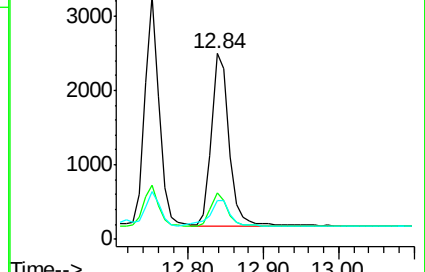
179 20.7 12.0 18.0#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Fluoranthene

Concen: 0.08 ng

RT: 14.96 min Scan# 2557

Delta R.T. 0.01 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

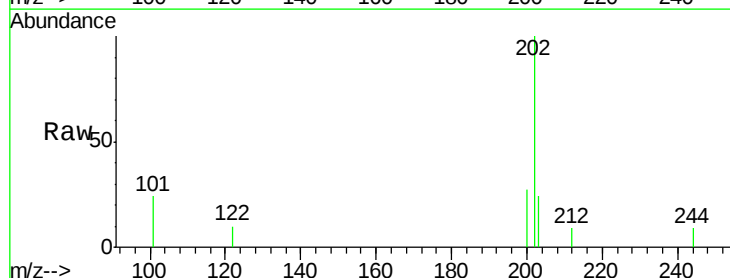
Tgt Ion:202 Resp: 791

Ion Ratio Lower Upper

202 100

101 24.4 0.0 37.9

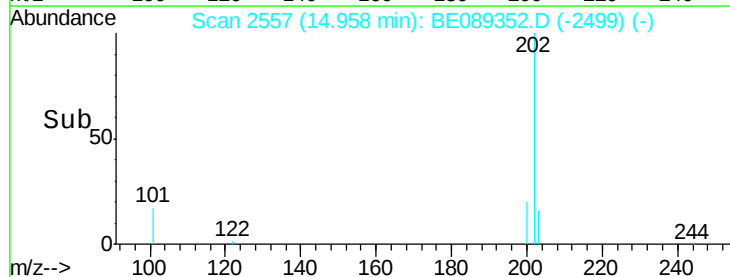
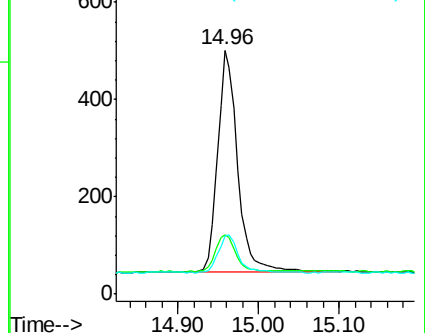
203 24.0 0.0 37.5

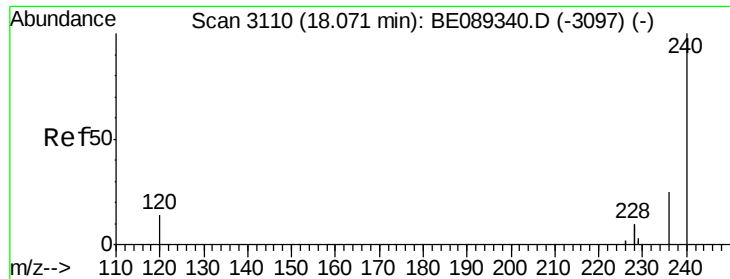


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#15

Chrysene-d12

Concen: 5.00 ng

RT: 18.06 min Scan# 3109

Delta R.T. -0.01 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

Instrument :

BNA_E

ClientSampleId :

LOD-SOIL2015-01

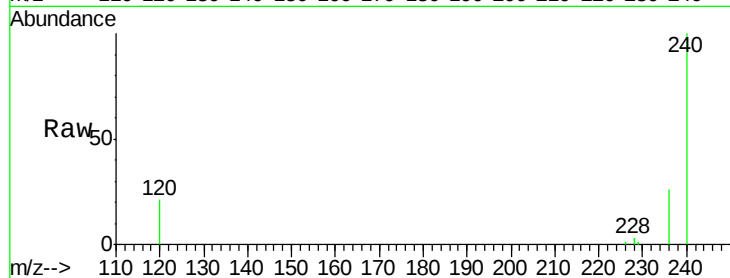
Tgt Ion:240 Resp: 24863

Ion Ratio Lower Upper

240 100

120 21.2 11.8 17.6#

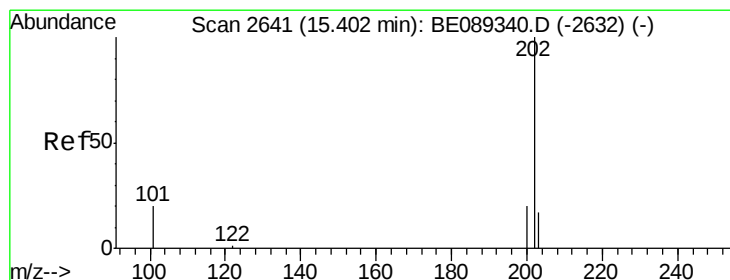
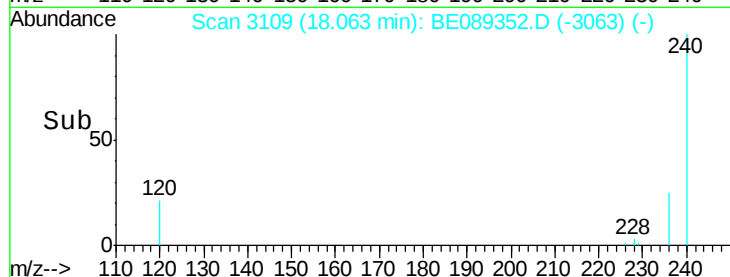
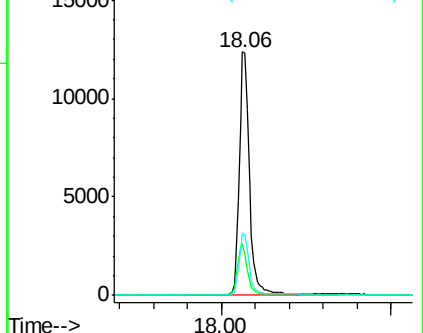
236 25.6 20.0 30.0



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



#16

Pyrene

Concen: 0.10 ng

RT: 15.41 min Scan# 2642

Delta R.T. 0.01 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

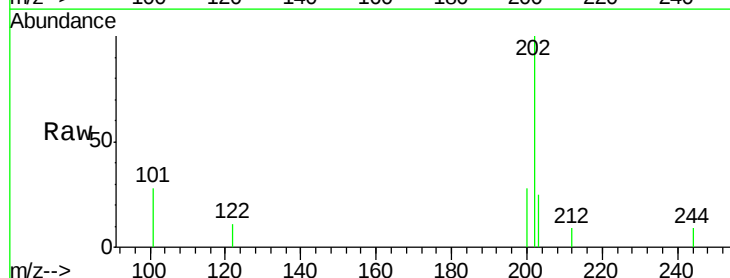
Tgt Ion:202 Resp: 786

Ion Ratio Lower Upper

202 100

200 28.4 16.8 25.2#

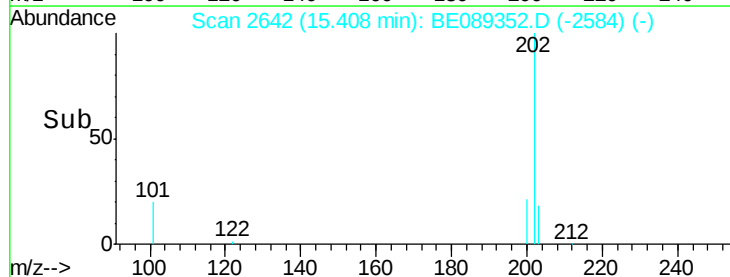
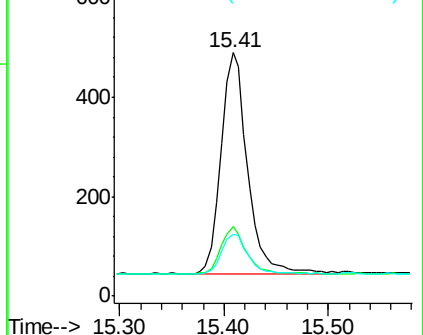
203 25.1 14.0 21.0#

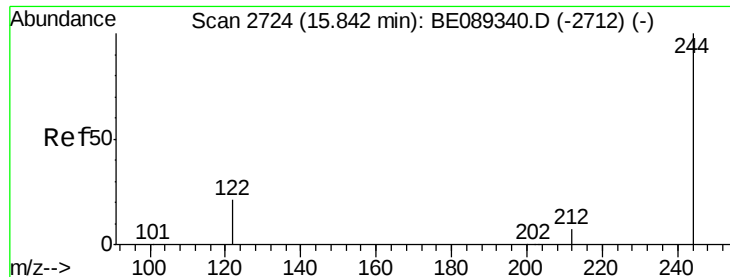


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

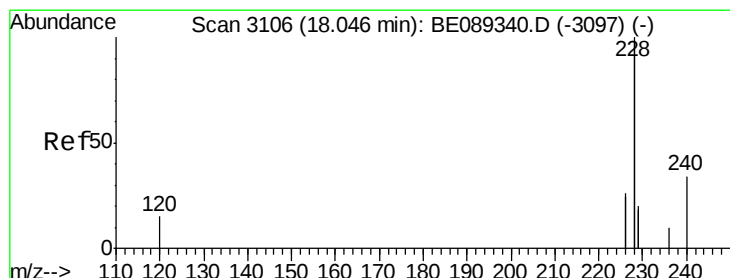
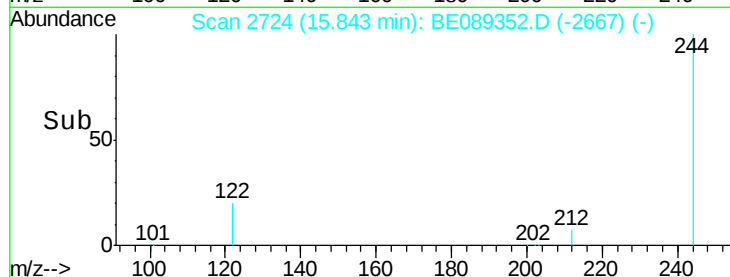
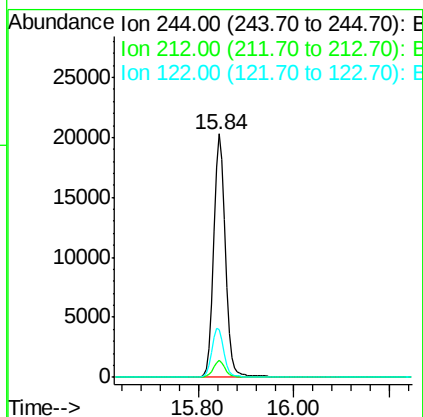
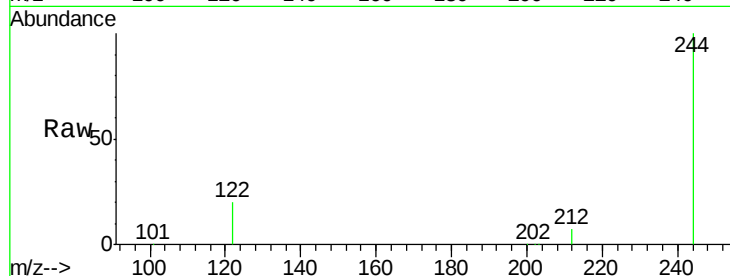




#17
 Terphenyl-d14
 Concen: 7.67 ng
 RT: 15.84 min Scan# 2724
 Delta R.T. 0.00 min
 Lab File: BE089352.D
 Acq: 8 Jan 2015 7:29

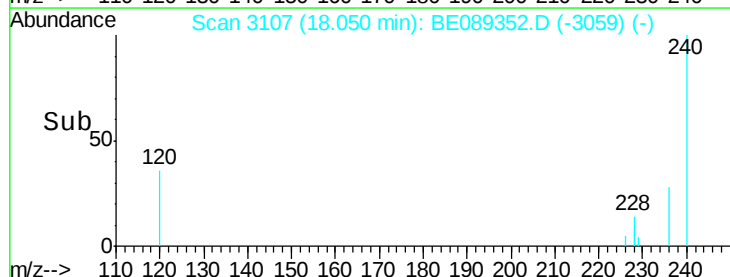
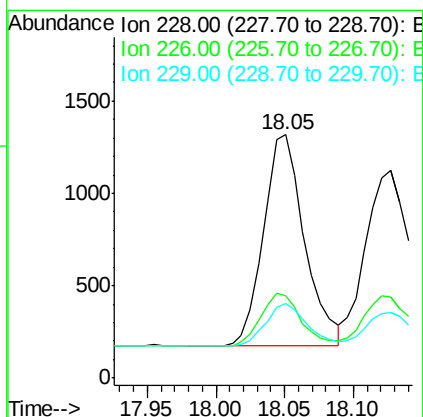
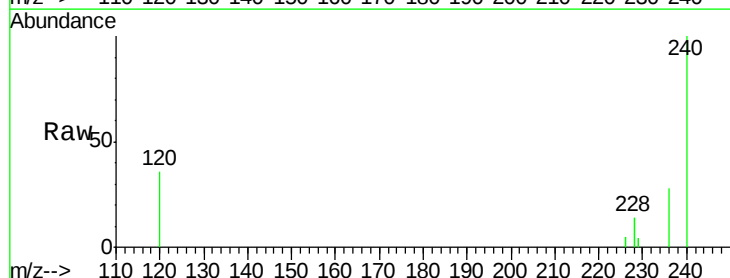
Instrument :
 BNA_E
 ClientSampleId :
 LOD-SOIL2015-01

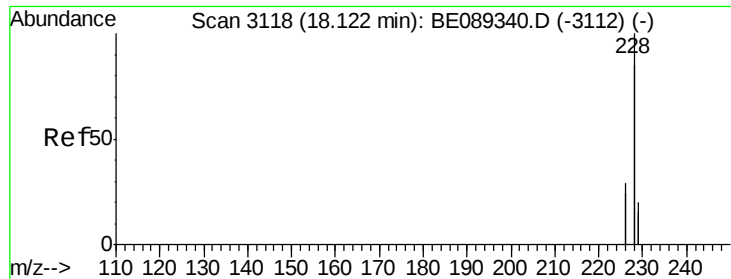
Tgt Ion:244 Resp: 33778
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.3 9.5
 122 19.8 17.7 26.5



#18
 Benzo(a)anthracene
 Concen: 0.09 ng
 RT: 18.05 min Scan# 3107
 Delta R.T. 0.00 min
 Lab File: BE089352.D
 Acq: 8 Jan 2015 7:29

Tgt Ion:228 Resp: 2353
 Ion Ratio Lower Upper
 228 100
 226 33.5 21.0 31.6#
 229 30.8 16.0 24.0#





#19

Chrysene

Concen: 0.09 ng

RT: 18.13 min Scan# 3119

Delta R.T. 0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

Instrument :

BNA_E

ClientSampleId :

LOD-SOIL2015-01

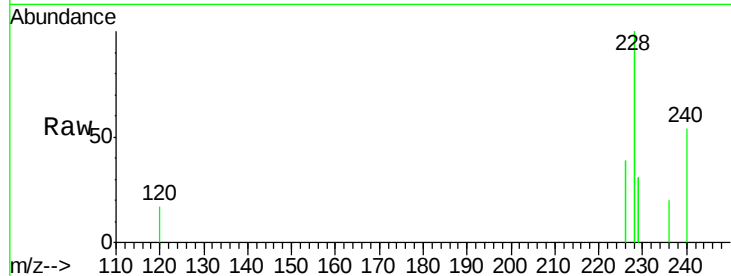
Tgt Ion:228 Resp: 2375

Ion Ratio Lower Upper

228 100

226 38.8 23.5 35.3#

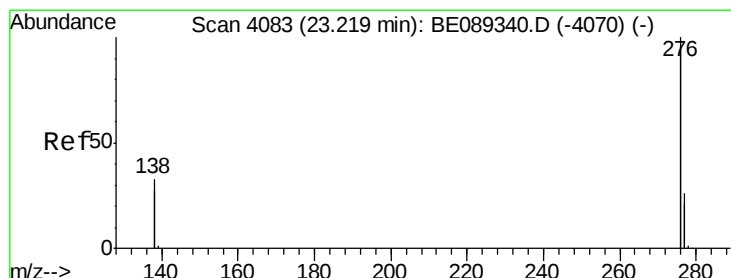
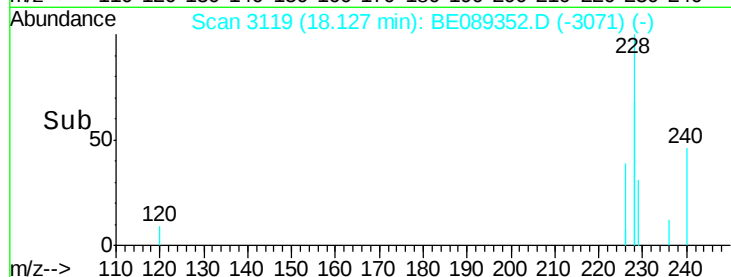
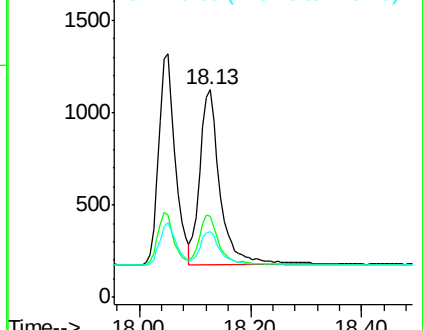
229 31.5 16.1 24.1#



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



#20

Indeno(1,2,3-cd)pyrene

Concen: 0.08 ng

RT: 23.24 min Scan# 4086

Delta R.T. 0.02 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

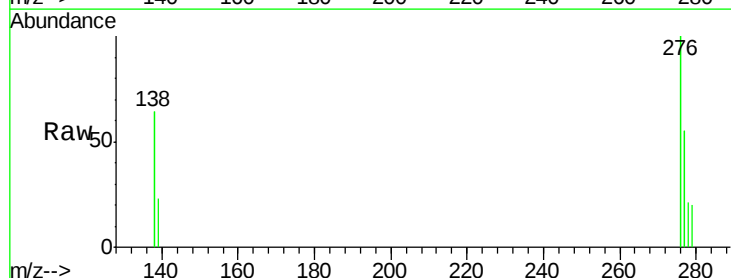
Tgt Ion:276 Resp: 1851

Ion Ratio Lower Upper

276 100

138 15.7 23.8 35.8#

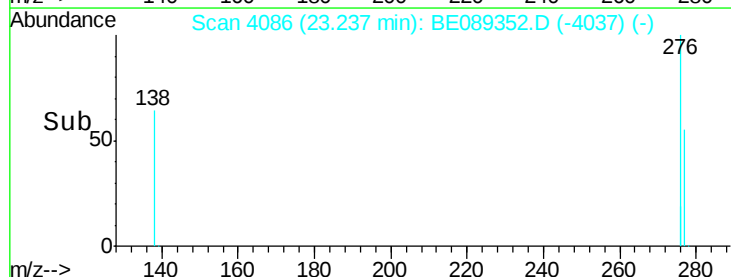
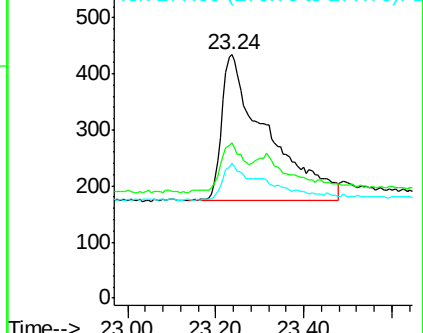
277 13.5 18.2 27.4#

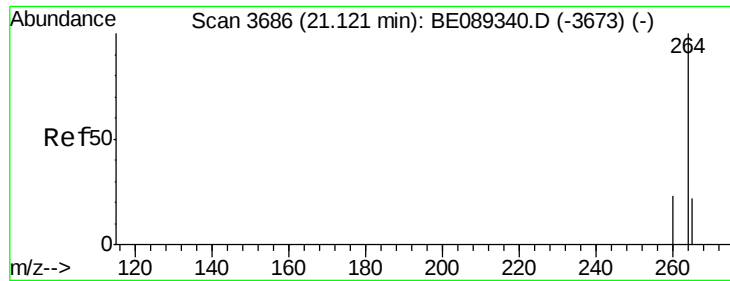


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#21

Perylene-d12

Concen: 5.00 ng

RT: 21.11 min Scan# 3685

Delta R.T. -0.01 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

Instrument :

BNA_E

ClientSampleId :

LOD-SOIL2015-01

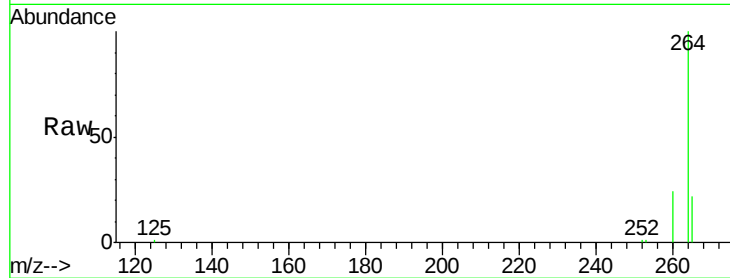
Tgt Ion:264 Resp: 24960

Ion Ratio Lower Upper

264 100

260 23.9 18.9 28.3

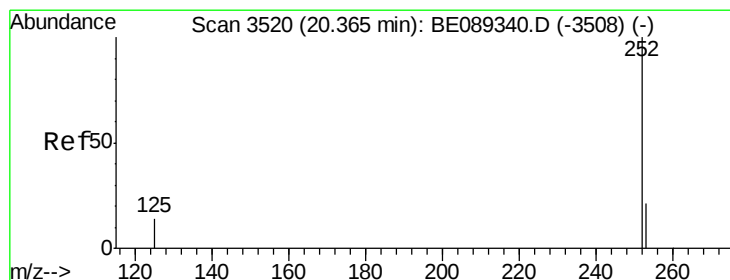
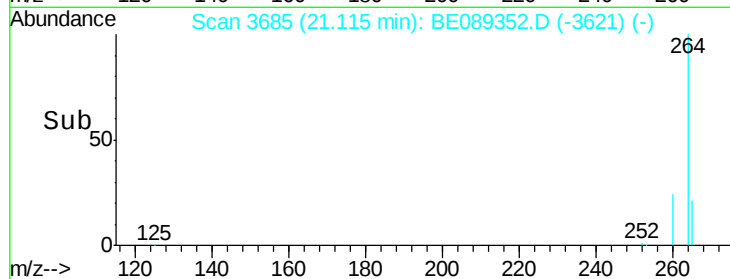
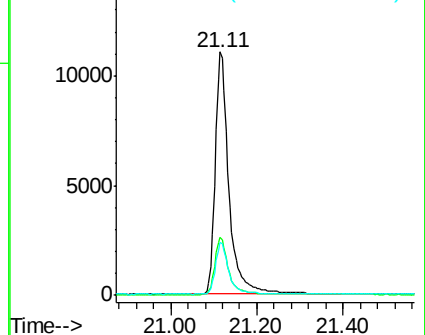
265 21.6 17.4 26.2



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



#22

Benzo(b)fluoranthene

Concen: 0.07 ng

RT: 20.38 min Scan# 3523

Delta R.T. 0.01 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

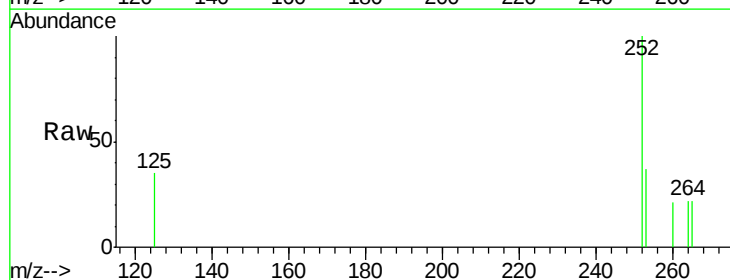
Tgt Ion:252 Resp: 386

Ion Ratio Lower Upper

252 100

253 37.4 17.8 26.6#

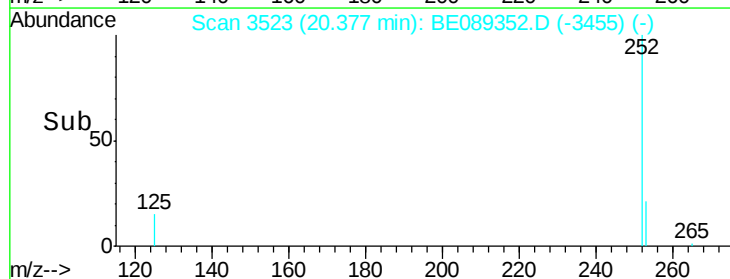
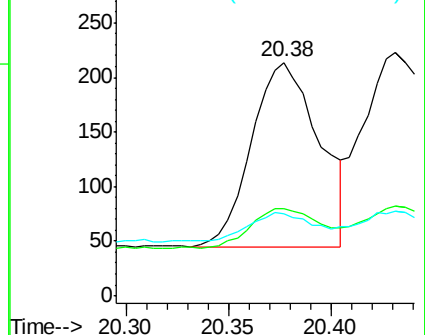
125 35.0 12.6 18.8#

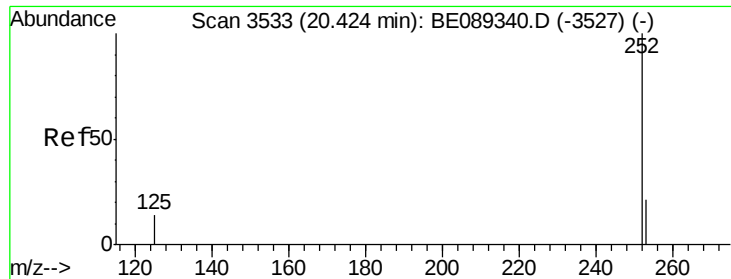


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(k)fluoranthene

Concen: 0.08 ng

RT: 20.43 min Scan# 3535

Delta R.T. 0.01 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

Instrument :

BNA_E

ClientSampleId :

LOD-SOIL2015-01

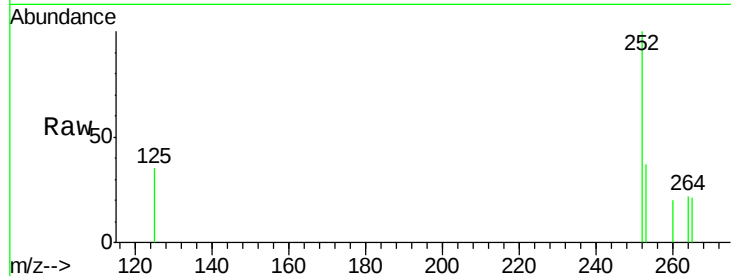
Tgt Ion:252 Resp: 561

Ion Ratio Lower Upper

252 100

253 36.8 18.0 27.0#

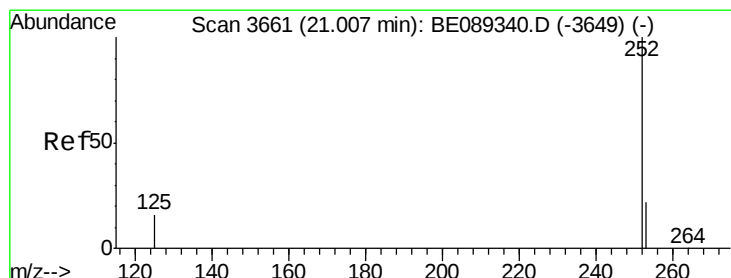
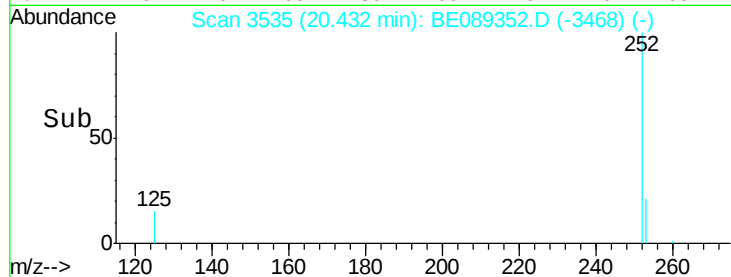
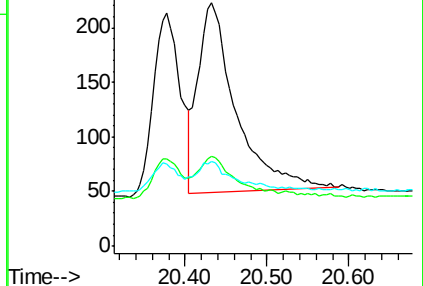
125 34.5 12.4 18.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(a)pyrene

Concen: 0.08 ng

RT: 21.01 min Scan# 3661

Delta R.T. -0.00 min

Lab File: BE089352.D

Acq: 8 Jan 2015 7:29

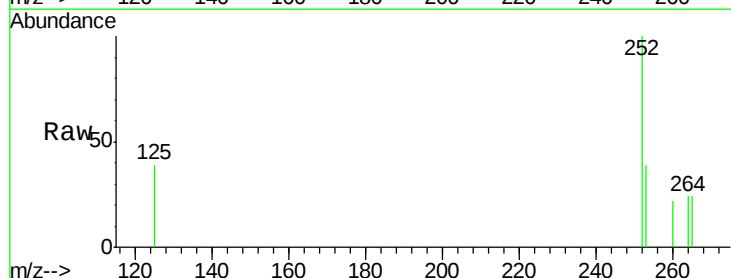
Tgt Ion:252 Resp: 410

Ion Ratio Lower Upper

252 100

253 38.6 18.3 27.5#

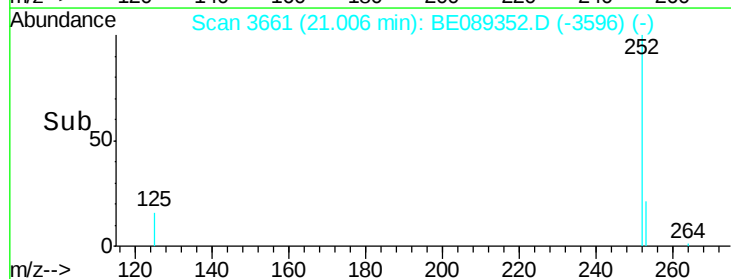
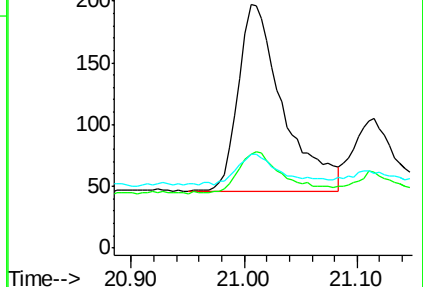
125 38.6 13.8 20.8#

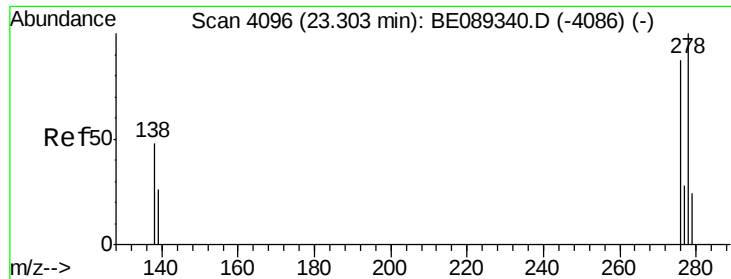


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

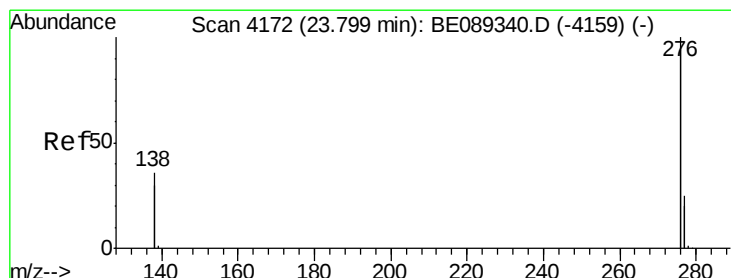
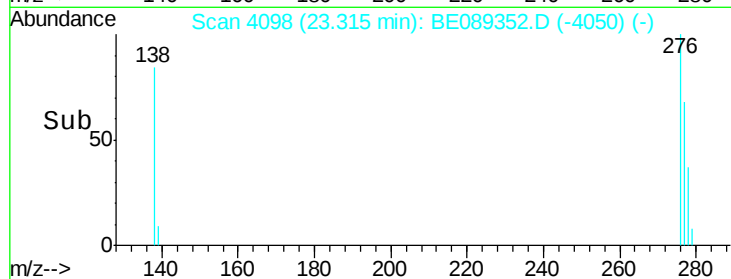
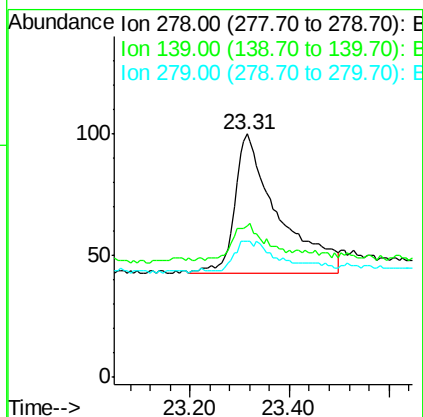
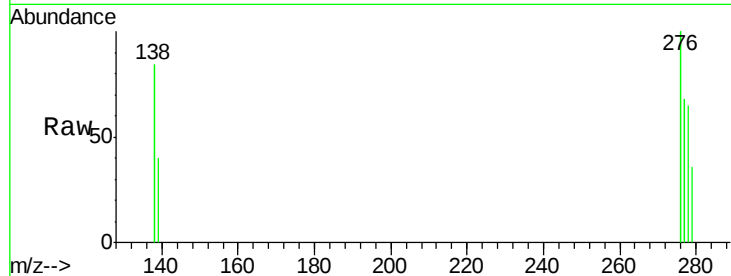




#25
Dibenzo(a,h)anthracene
Concen: 0.07 ng
RT: 23.31 min Scan# 4098
Delta R.T. 0.01 min
Lab File: BE089352.D
Acq: 8 Jan 2015 7:29

Instrument :
BNA_E
ClientSampleId :
LOD-SOIL2015-01

Tgt Ion: 278 Resp: 342
Ion Ratio Lower Upper
278 100
139 62.0 22.9 34.3#
279 56.0 20.8 31.2#



#26
Benzo(g,h,i)perylene
Concen: 0.07 ng
RT: 23.82 min Scan# 4176
Delta R.T. 0.02 min
Lab File: BE089352.D
Acq: 8 Jan 2015 7:29

Tgt Ion: 276 Resp: 1854
Ion Ratio Lower Upper
276 100
277 49.4 20.0 30.0#
138 59.5 28.5 42.7#

