

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089451.D
 Acq On : 30 Jan 2015 23:53
 Operator : TP/IZ
 Sample : G1001-04
 Misc : LOQ-SOIL-1.0ML
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL2015-02

Quant Time: Feb 02 00:57:22 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 05:05:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.59	152	104393	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	426784	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	207582	5.00	ng	-0.01
11) Phenanthrene-d10	20.00	188	340491	5.00	ng	0.00
16) Chrysene-d12	23.84	240	285359	5.00	ng	0.00
22) Perylene-d12	25.55	264	252993	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	244125	8.64	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	381518	6.98	ng	0.00
18) Terphenyl-d14	22.48	244	351576	8.23	ng	0.00

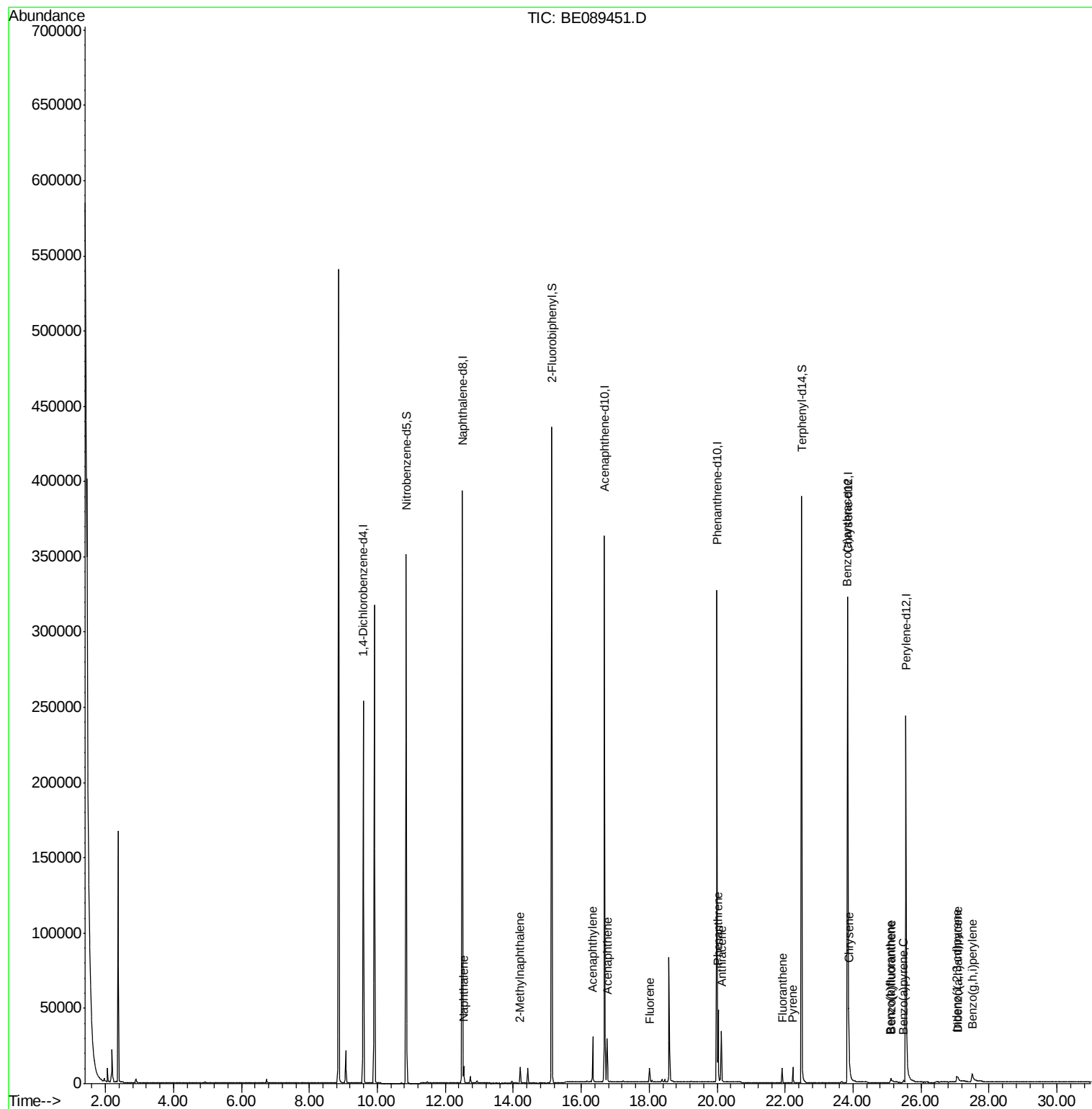
Target Compounds				Qvalue		
4) Naphthalene	12.55	128	12400	0.12	ng	99
5) 2-Methylnaphthalene	14.20	142	6850	0.11	ng	95
8) Acenaphthylene	16.34	152	35776	0.10	ng	99
9) Acenaphthene	16.76	154	6095	0.11	ng	97
10) Fluorene	18.02	166	6475	0.10	ng	99
12) Pentachlorophenol	19.66	266	178	Below Cal		90
13) Phenanthrene	20.03	178	41460	0.12	ng	98
14) Anthracene	20.12	178	33928	0.11	ng	99
15) Fluoranthene	21.91	202	7720	0.11	ng	99
17) Pyrene	22.23	202	8332	0.11	ng	98
19) Benzo(a)anthracene	23.83	228	26114	0.11	ng	98
20) Chrysene	23.87	228	36542	0.13	ng	97
21) Indeno(1,2,3-cd)pyrene	27.05	276	11566	0.05	ng	93
23) Benzo(b)fluoranthene	25.10	252	1990	0.23	ng	# 85
24) Benzo(k)fluoranthene	25.13	252	4834	0.08	ng	# 92
25) Benzo(a)pyrene	25.48	252	2689	0.18	ng	# 85
26) Dibenzo(a,h)anthracene	27.08	278	1679	0.16	ng	# 83
27) Benzo(g,h,i)perylene	27.51	276	15254	0.08	ng	# 87

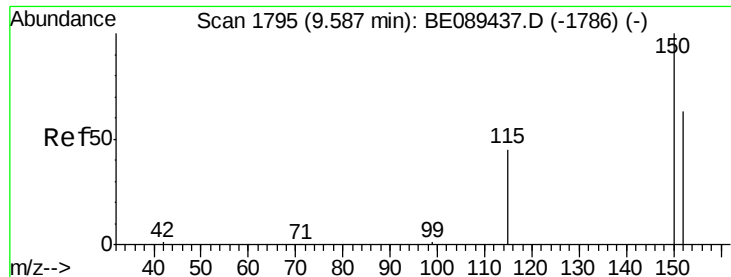
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02

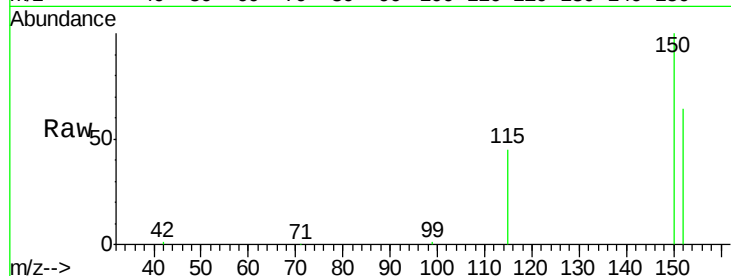
Tgt Ion:152 Resp: 104393

Ion Ratio Lower Upper

152 100

150 155.3 127.2 190.8

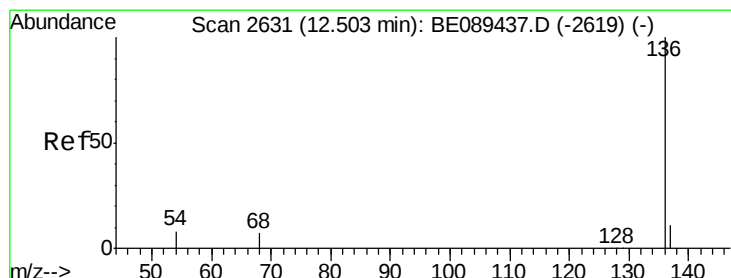
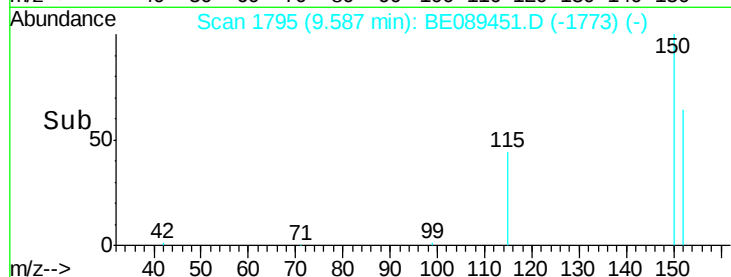
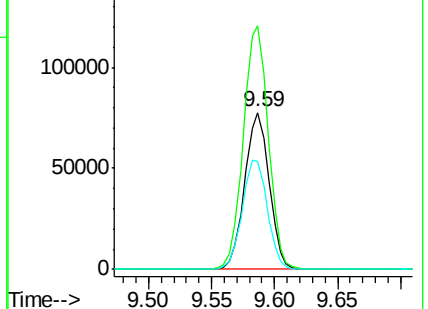
115 69.1 57.5 86.3



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: 12.50 min Scan# 2630

Delta R.T. -0.01 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

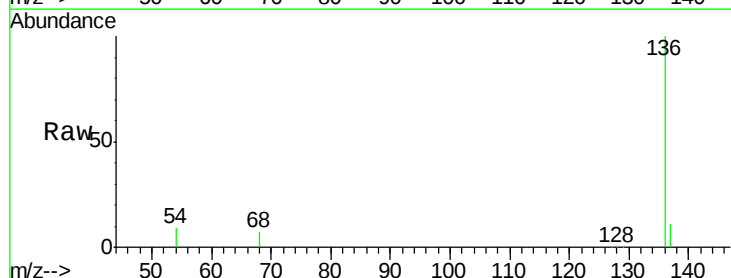
Tgt Ion:136 Resp: 426784

Ion Ratio Lower Upper

136 100

137 10.7 8.7 13.1

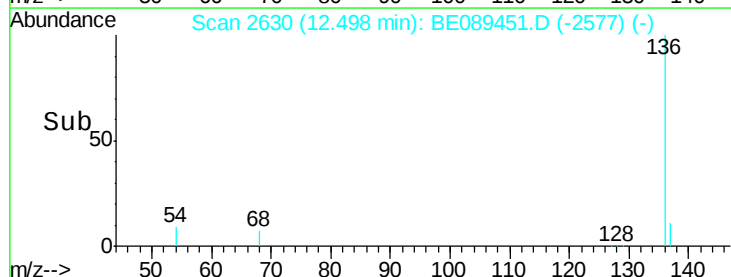
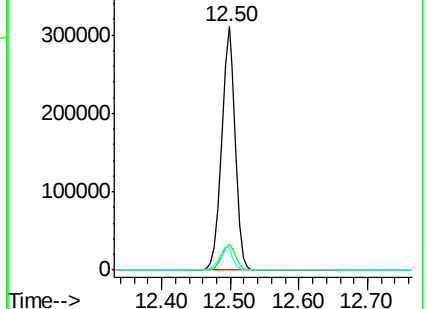
54 8.8 6.6 10.0



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





#3

Nitrobenzene-d5

Concen: 8.64 ng

RT: 10.85 min Scan# 2225

Delta R.T. 0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02

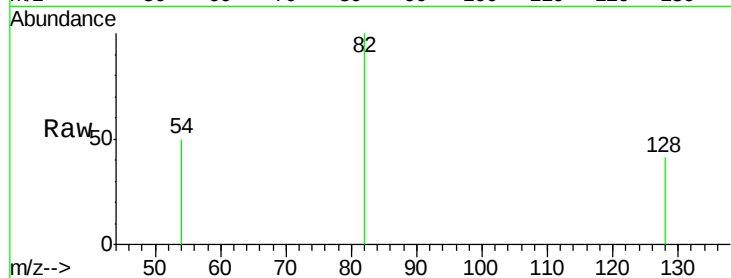
Tgt Ion: 82 Resp: 244125

Ion Ratio Lower Upper

82 100

128 40.5 31.2 46.8

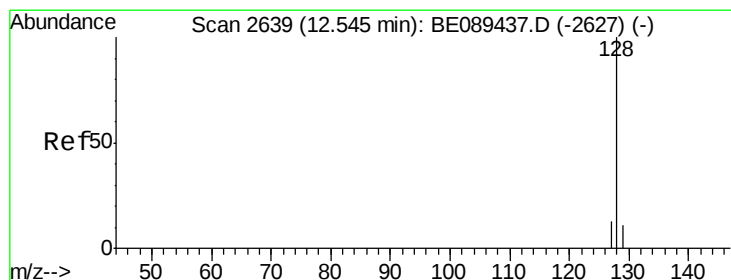
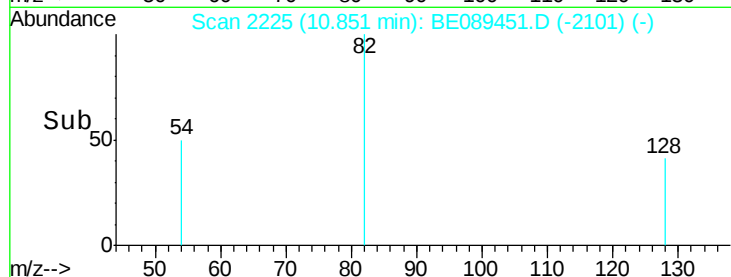
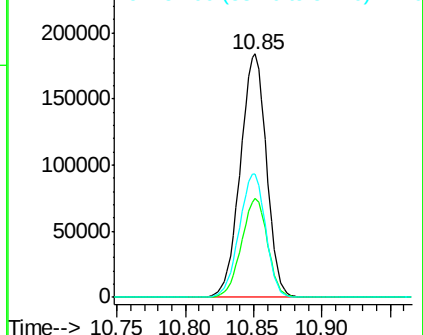
54 50.4 41.9 62.9



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: 0.12 ng

RT: 12.55 min Scan# 2639

Delta R.T. 0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

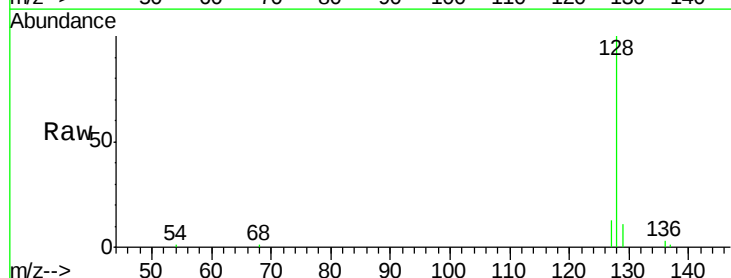
Tgt Ion: 128 Resp: 12400

Ion Ratio Lower Upper

128 100

129 11.3 8.8 13.2

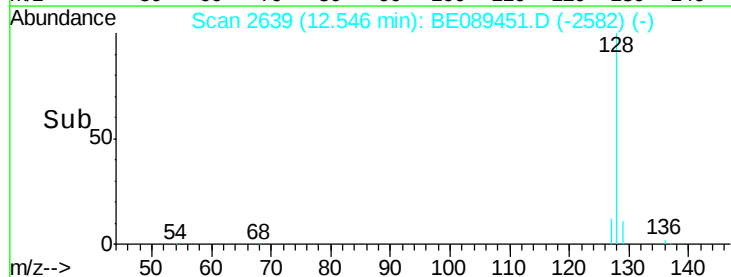
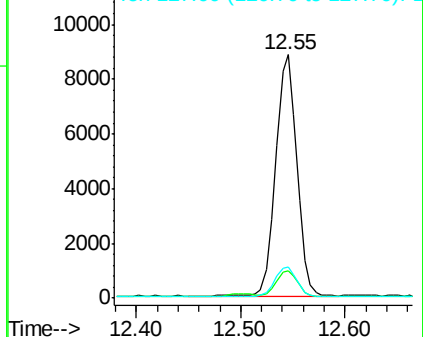
127 12.9 10.6 16.0



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: 0.11 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02

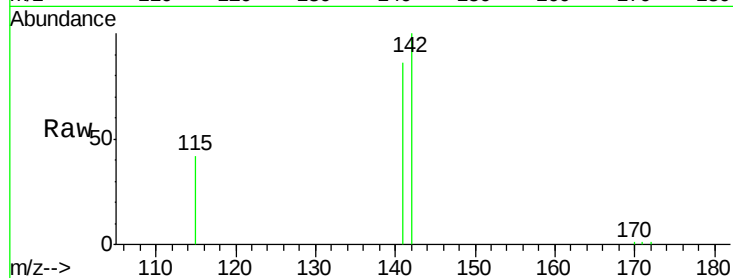
Tgt Ion:142 Resp: 6850

Ion Ratio Lower Upper

142 100

141 85.7 66.1 99.1

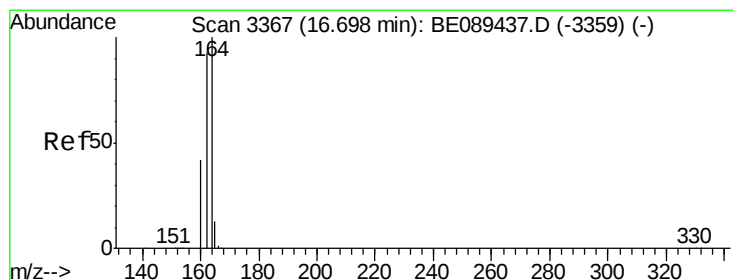
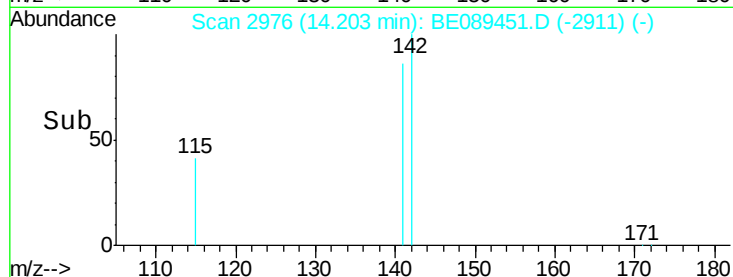
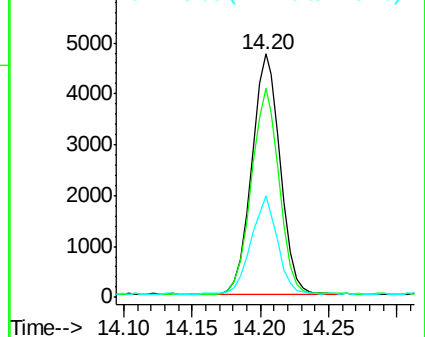
115 41.7 29.9 44.9



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: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

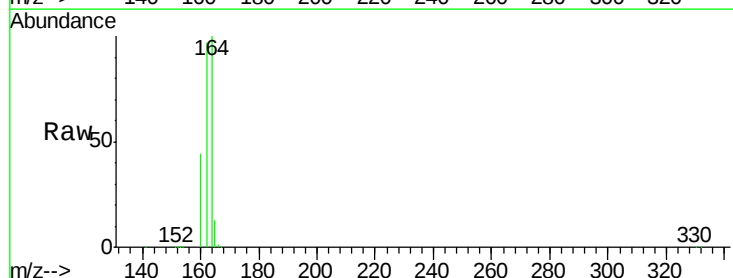
Tgt Ion:164 Resp: 207582

Ion Ratio Lower Upper

164 100

162 97.1 74.7 112.1

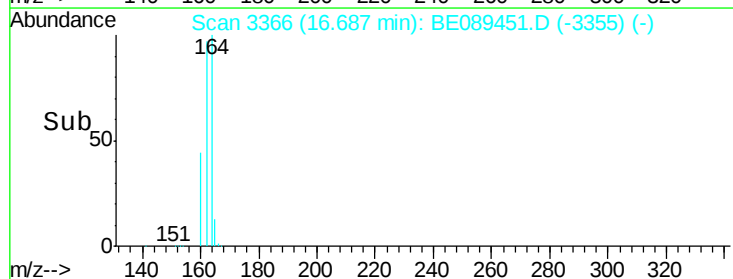
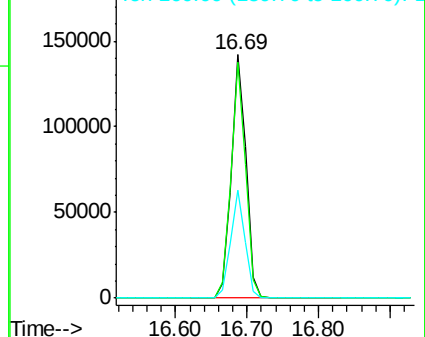
160 44.3 33.4 50.0



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: 6.98 ng

RT: 15.13 min Scan# 3180

Delta R.T. -0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02

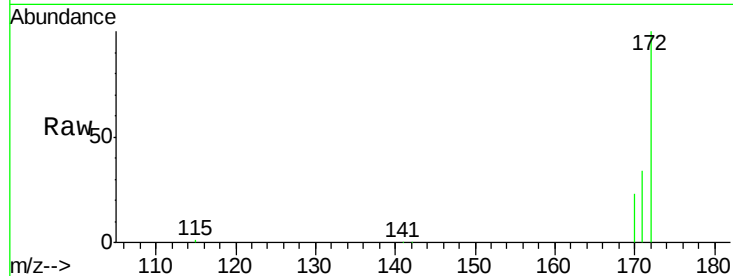
Tgt Ion:172 Resp: 381518

Ion Ratio Lower Upper

172 100

171 34.0 26.2 39.4

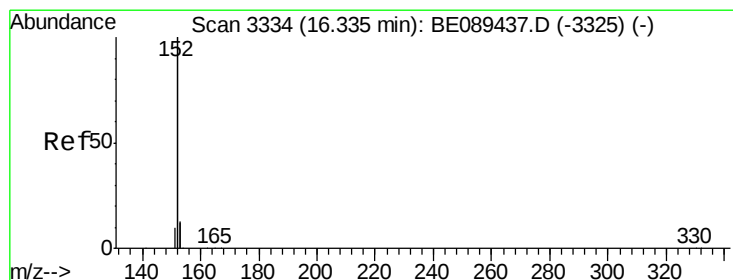
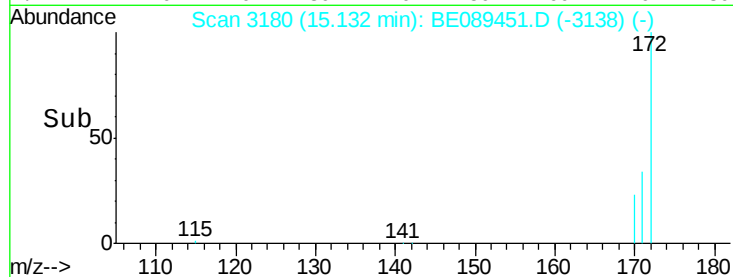
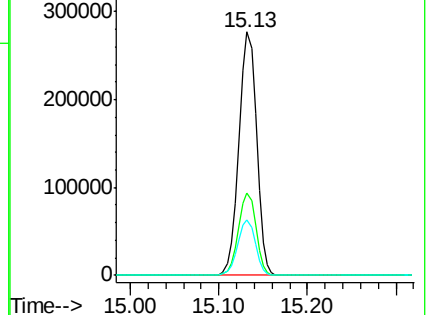
170 22.7 16.5 24.7



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



#8

Acenaphthylene

Concen: 0.10 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

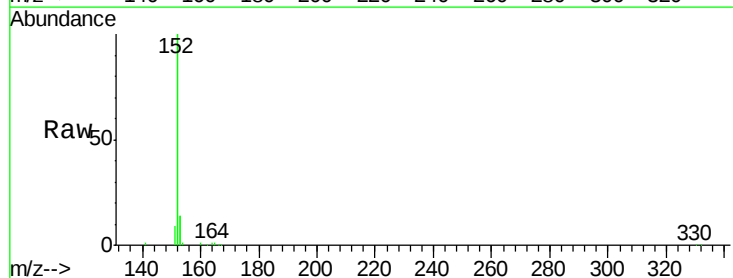
Tgt Ion:152 Resp: 35776

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

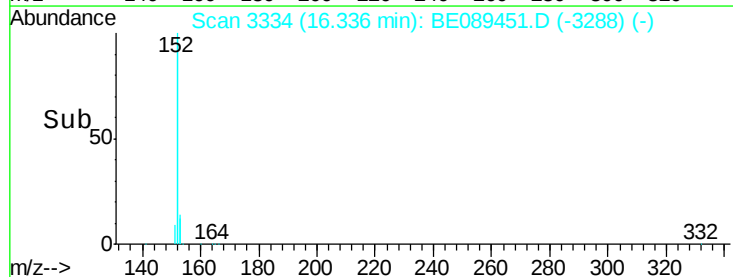
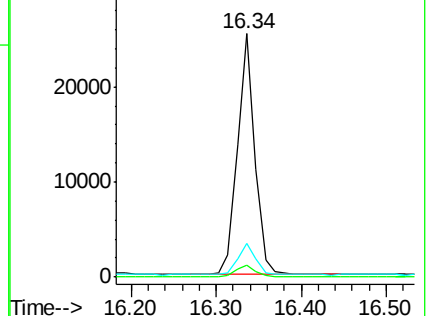
153 13.5 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.11 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02

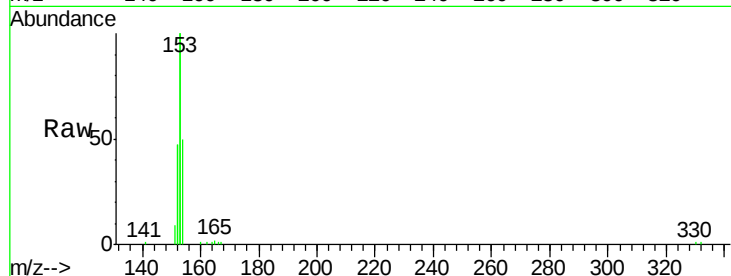
Tgt Ion:154 Resp: 6095

Ion Ratio Lower Upper

154 100

153 426.2 342.3 513.5

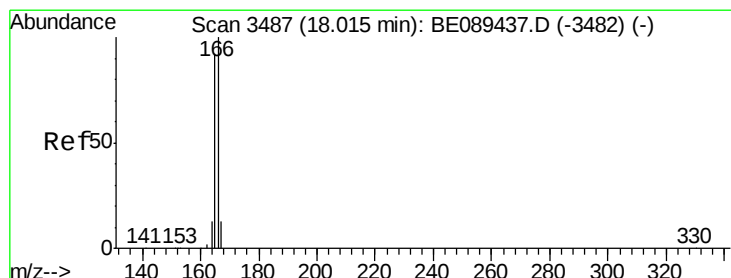
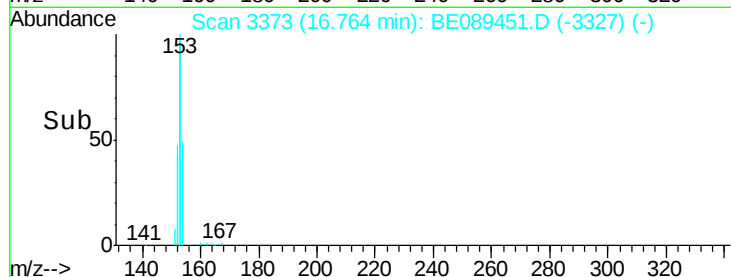
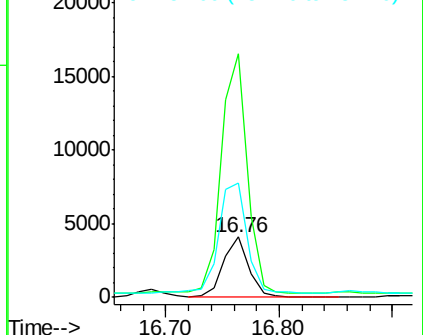
152 220.4 165.5 248.3



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.10 ng

RT: 18.02 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

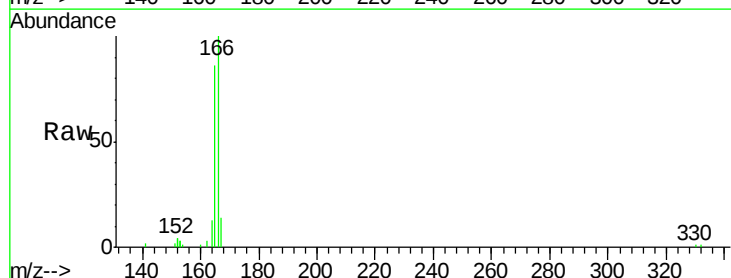
Tgt Ion:166 Resp: 6475

Ion Ratio Lower Upper

166 100

165 91.9 74.4 111.6

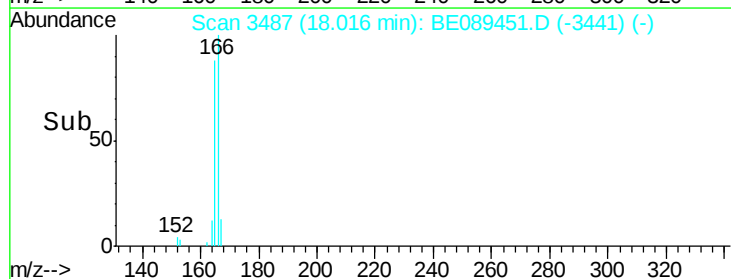
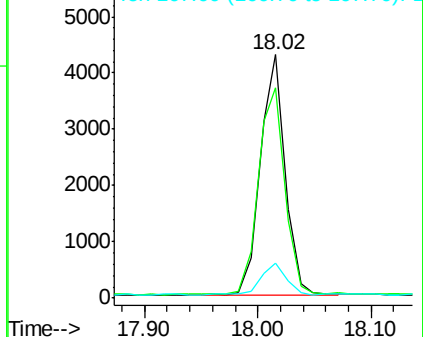
167 13.6 10.6 15.8



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

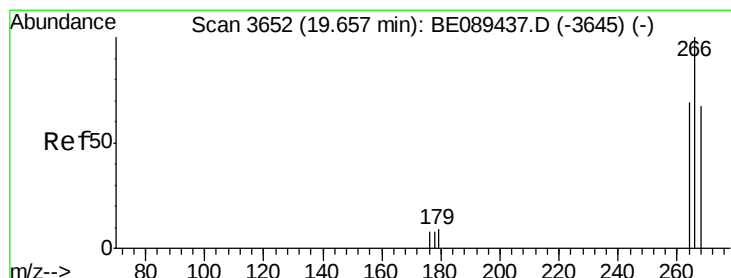
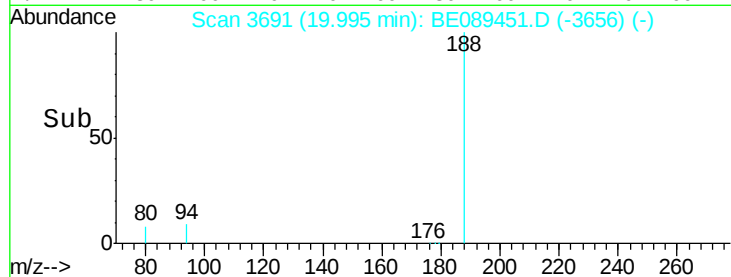
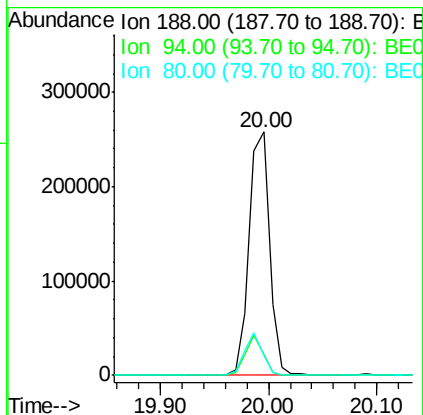
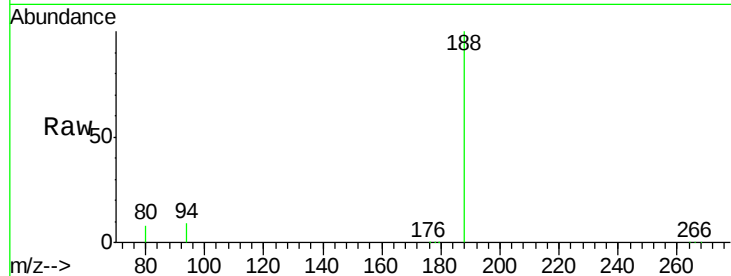




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 20.00 min Scan# 3691
Delta R.T. 0.00 min
Lab File: BE089451.D
Acq: 30 Jan 2015 23:53

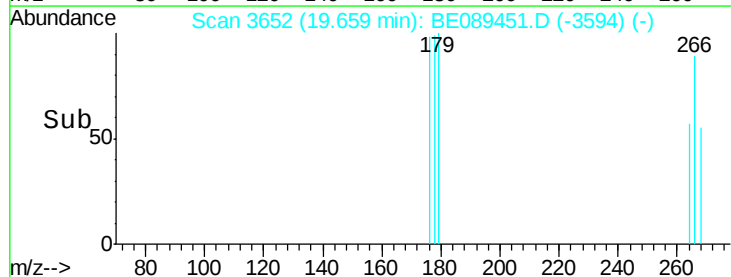
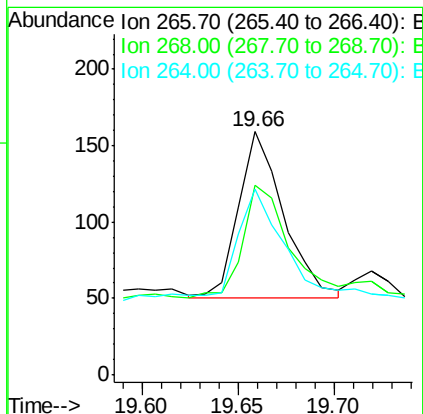
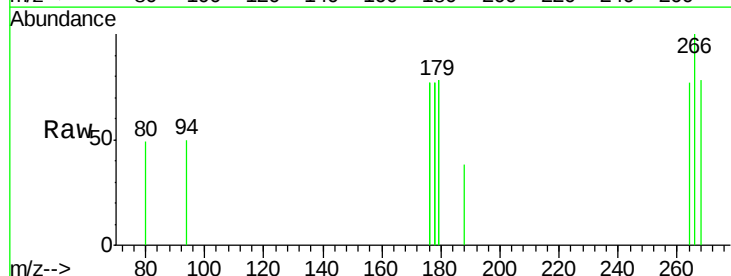
Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL2015-02

Tgt Ion:188 Resp: 340491
Ion Ratio Lower Upper
188 100
94 8.6 9.4 14.0#
80 8.3 9.3 13.9#



#12
Pentachlorophenol
Concen: Below Cal
RT: 19.66 min Scan# 3652
Delta R.T. 0.00 min
Lab File: BE089451.D
Acq: 30 Jan 2015 23:53

Tgt Ion:266 Resp: 178
Ion Ratio Lower Upper
266 100
268 78.0 54.2 81.4
264 76.7 56.2 84.2





#13

Phenanthrene

Concen: 0.12 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02

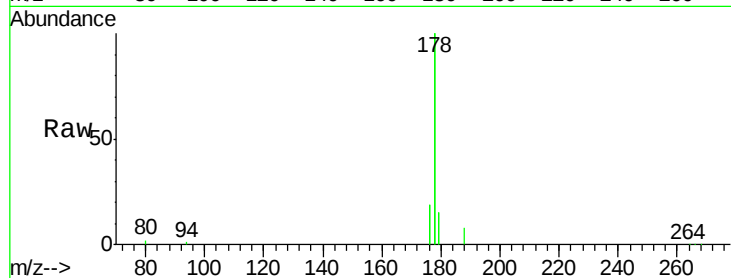
Tgt Ion:178 Resp: 41460

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

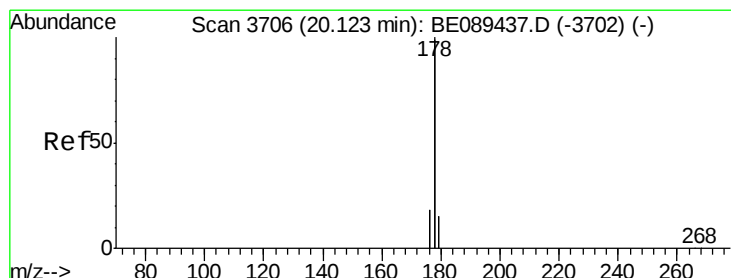
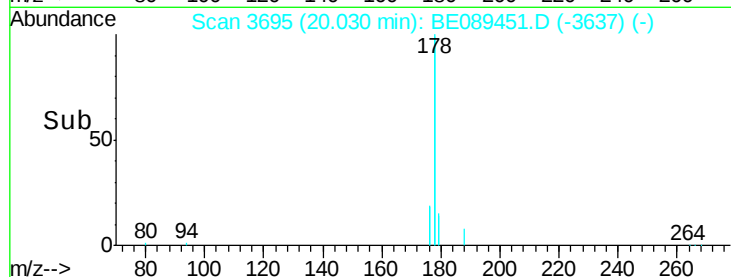
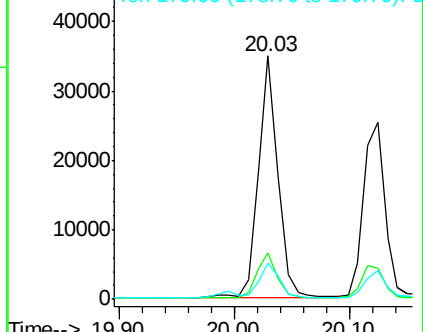
179 17.5 12.3 18.5



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

Anthracene

Concen: 0.11 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

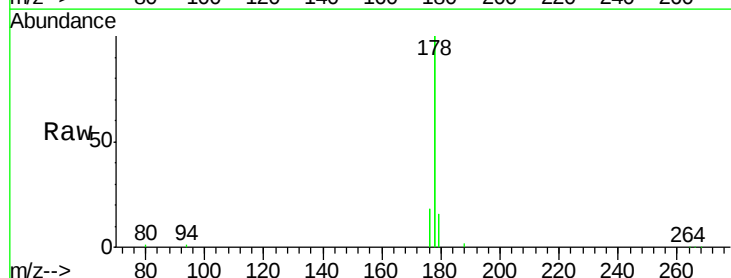
Tgt Ion:178 Resp: 33928

Ion Ratio Lower Upper

178 100

176 17.9 14.6 22.0

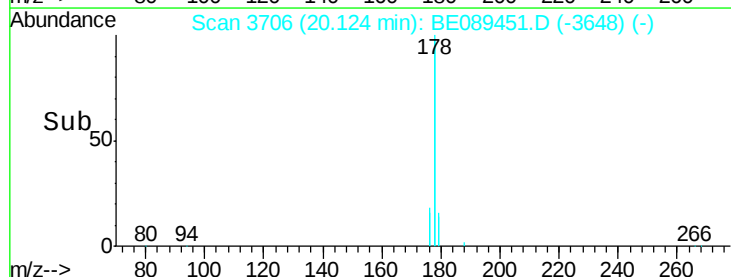
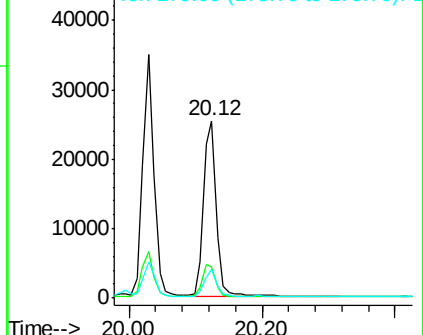
179 14.8 12.2 18.2

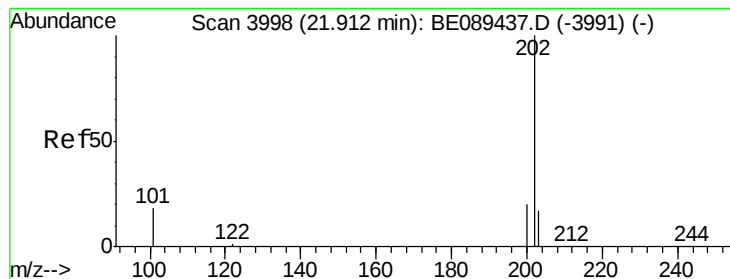


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.11 ng

RT: 21.91 min Scan# 3997

Delta R.T. -0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02

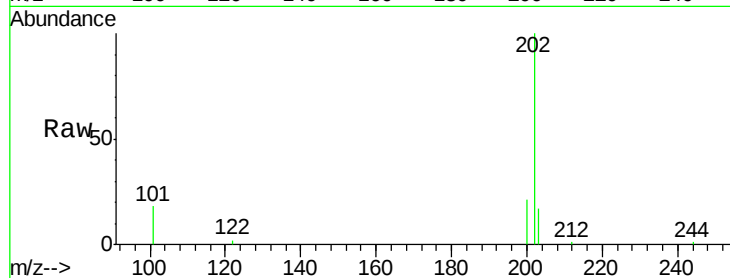
Tgt Ion:202 Resp: 7720

Ion Ratio Lower Upper

202 100

101 16.8 13.6 20.4

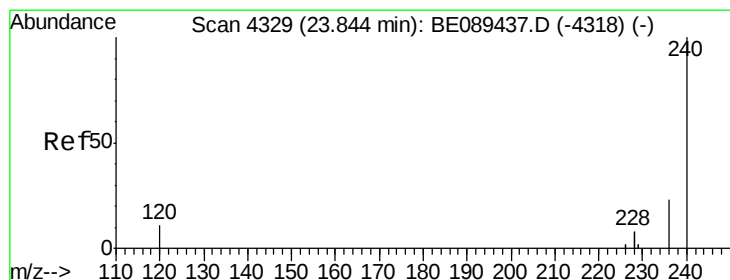
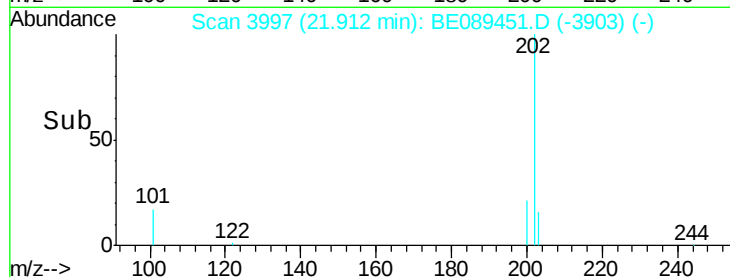
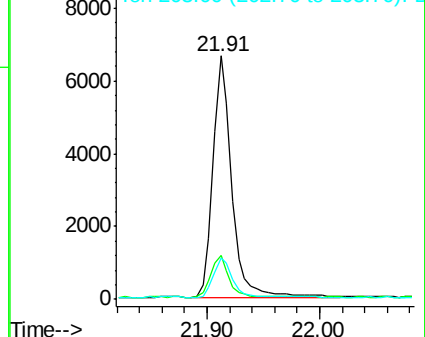
203 16.4 13.8 20.6



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



#16

Chrysene-d12

Concen: 5.00 ng

RT: 23.84 min Scan# 4328

Delta R.T. -0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

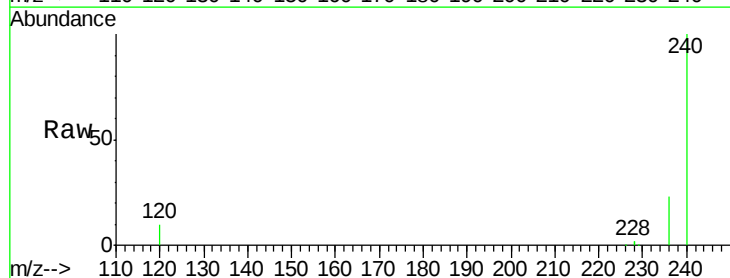
Tgt Ion:240 Resp: 285359

Ion Ratio Lower Upper

240 100

120 9.6 8.6 13.0

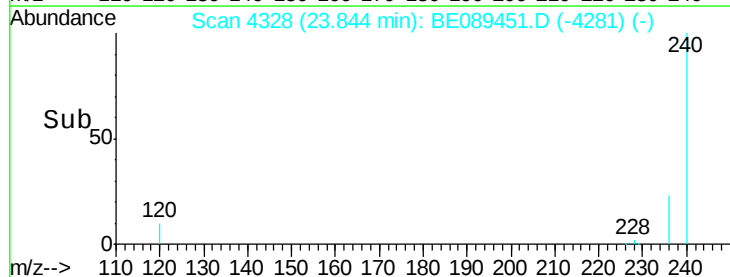
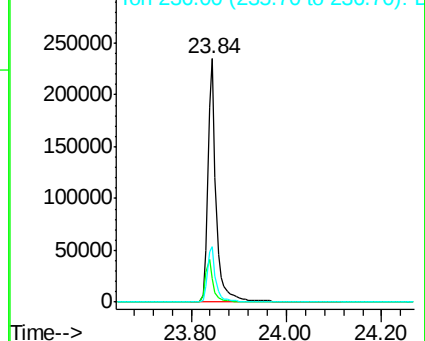
236 22.8 18.7 28.1

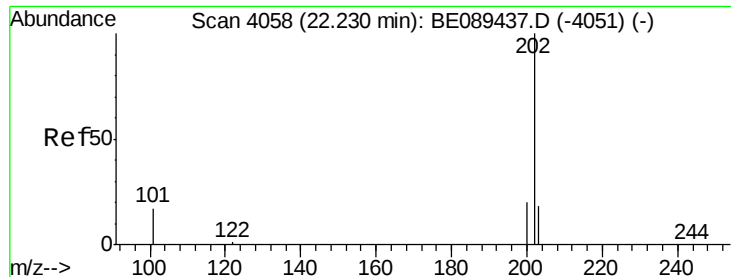


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 0.11 ng

RT: 22.23 min Scan# 4057

Delta R.T. -0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02

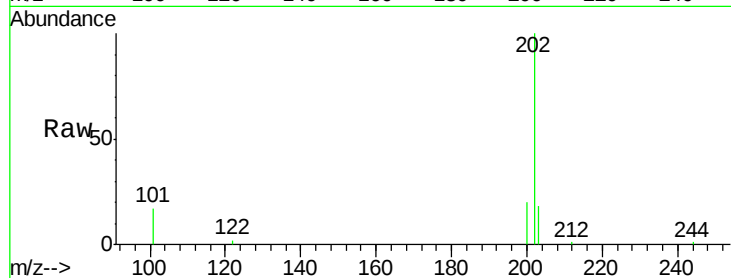
Tgt Ion:202 Resp: 8332

Ion Ratio Lower Upper

202 100

200 19.3 16.2 24.4

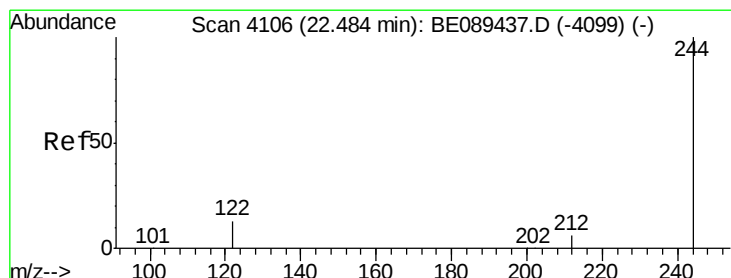
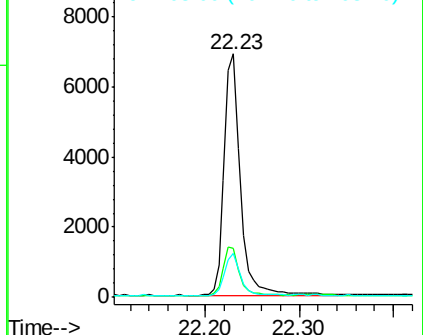
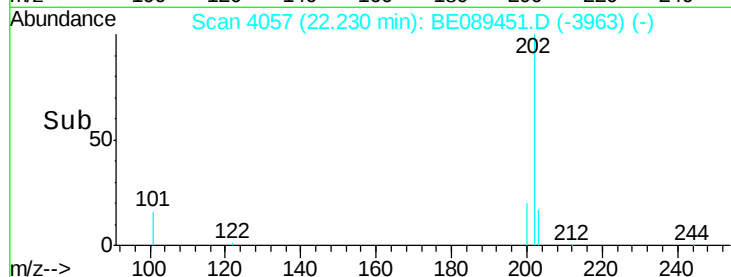
203 16.7 13.8 20.8



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



#18

Terphenyl-d14

Concen: 8.23 ng

RT: 22.48 min Scan# 4105

Delta R.T. -0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

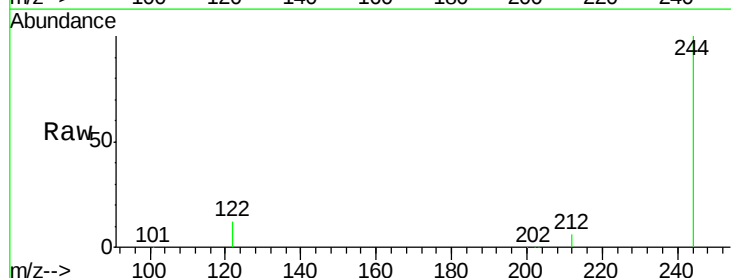
Tgt Ion:244 Resp: 351576

Ion Ratio Lower Upper

244 100

212 6.4 5.0 7.6

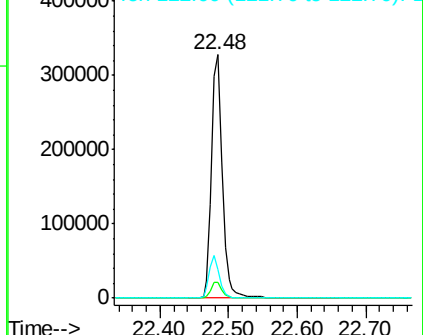
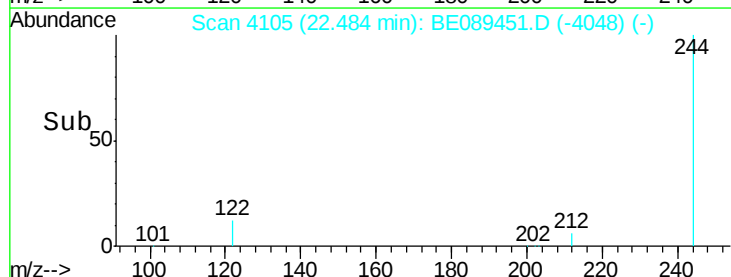
122 12.0 10.2 15.4



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





#19

Benzo(a)anthracene

Concen: 0.11 ng

RT: 23.83 min Scan# 4326

Delta R.T. -0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02

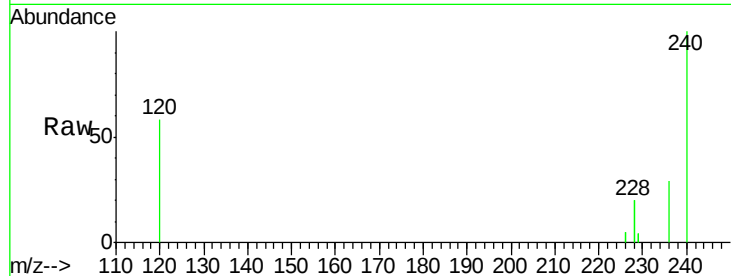
Tgt Ion:228 Resp: 26114

Ion Ratio Lower Upper

228 100

226 26.5 20.0 30.0

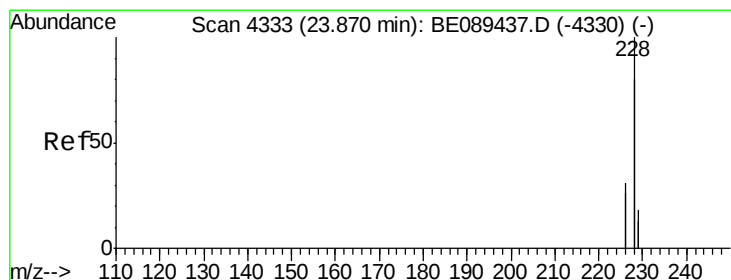
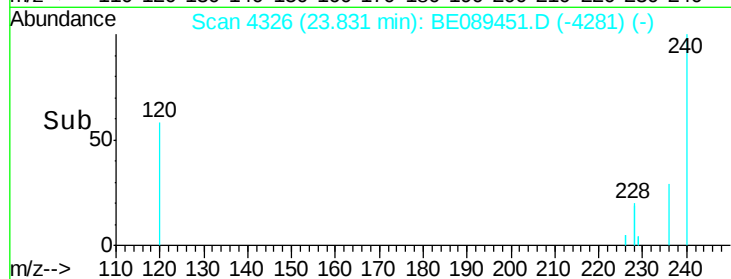
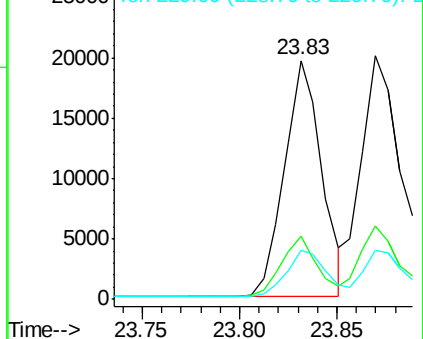
229 20.3 16.0 24.0



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

Chrysene

Concen: 0.13 ng

RT: 23.87 min Scan# 4332

Delta R.T. -0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

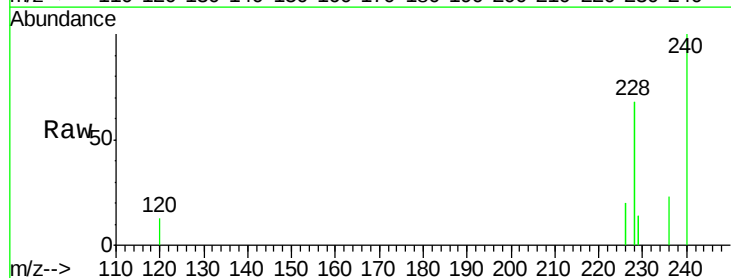
Tgt Ion:228 Resp: 36542

Ion Ratio Lower Upper

228 100

226 30.2 24.5 36.7

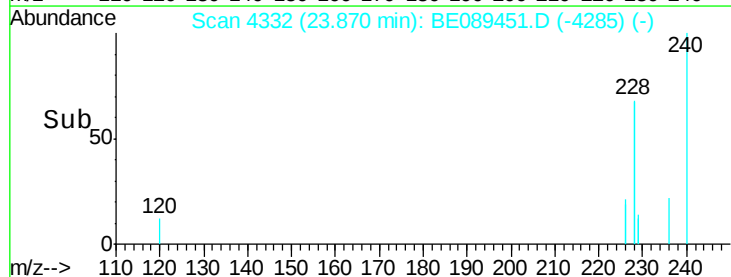
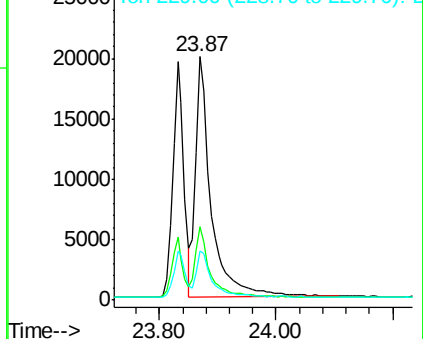
229 20.3 14.1 21.1



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





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.05 ng

RT: 27.05 min Scan# 4947

Delta R.T. -0.01 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02

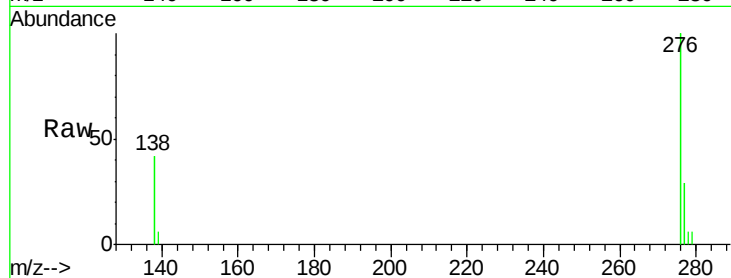
Tgt Ion:276 Resp: 11566

Ion Ratio Lower Upper

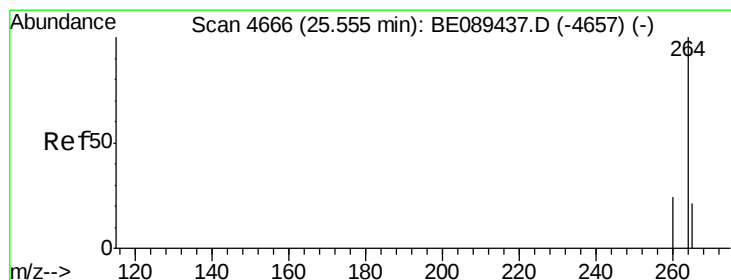
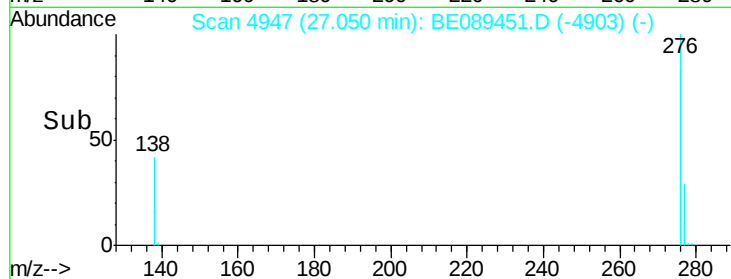
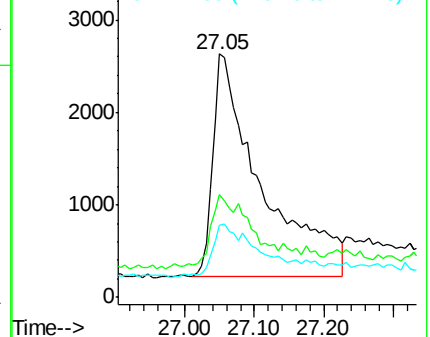
276 100

138 26.1 25.4 38.0

277 22.8 19.8 29.6



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4665

Delta R.T. 0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

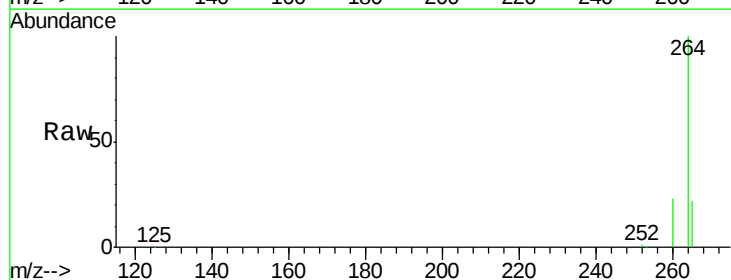
Tgt Ion:264 Resp: 252993

Ion Ratio Lower Upper

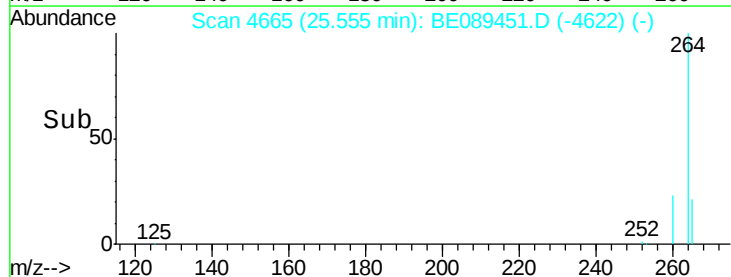
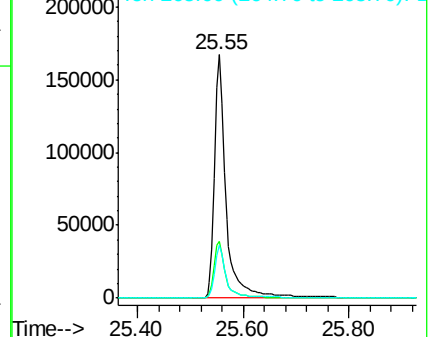
264 100

260 23.3 19.4 29.0

265 21.5 17.0 25.6



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





#23

Benzo(b)fluoranthene

Concen: 0.23 ng

RT: 25.10 min Scan# 4565

Delta R.T. 0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02

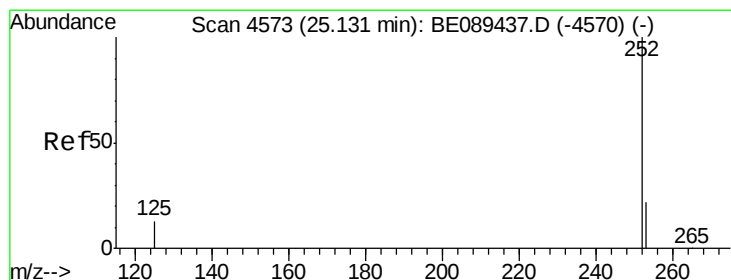
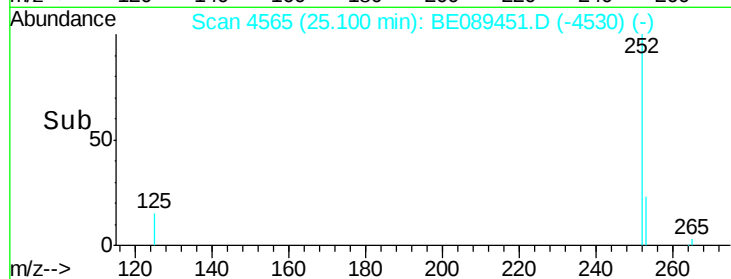
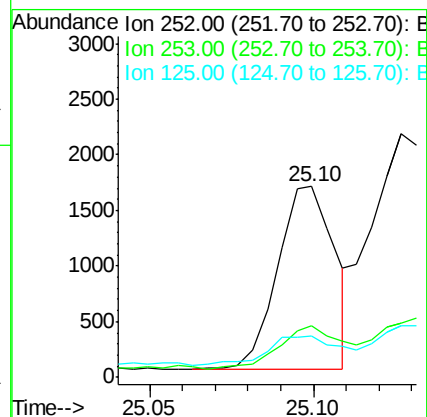
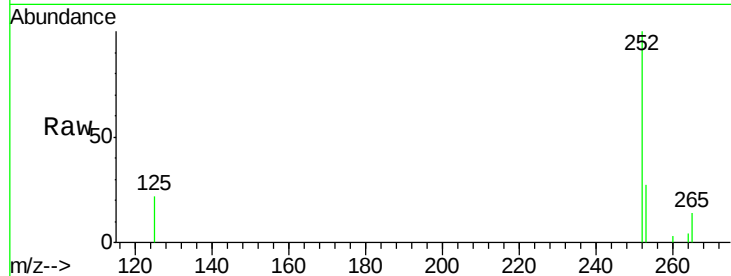
Tgt Ion:252 Resp: 1990

Ion Ratio Lower Upper

252 100

253 27.2 17.0 25.6#

125 21.5 11.4 17.0#



#24

Benzo(k)fluoranthene

Concen: 0.08 ng

RT: 25.13 min Scan# 4571

Delta R.T. -0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

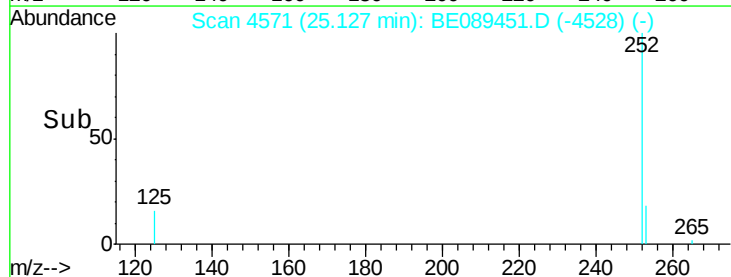
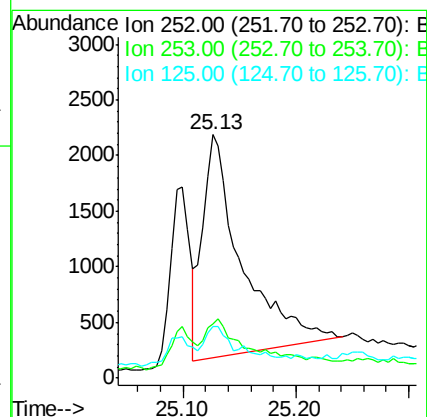
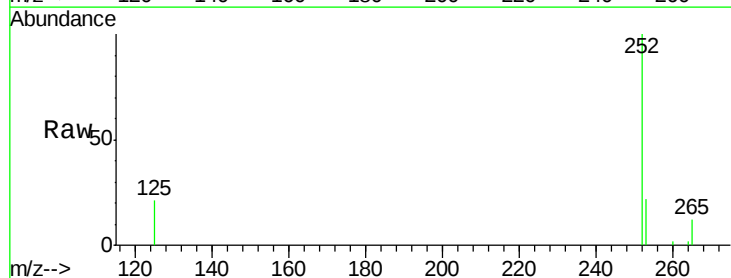
Tgt Ion:252 Resp: 4834

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.2

125 21.3 10.9 16.3#





#25

Benzo(a)pyrene

Concen: 0.18 ng

RT: 25.48 min Scan# 4649

Delta R.T. -0.00 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02

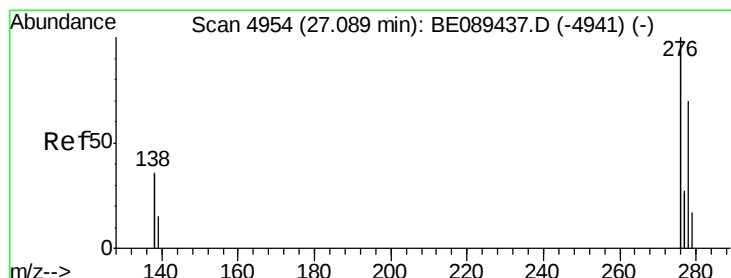
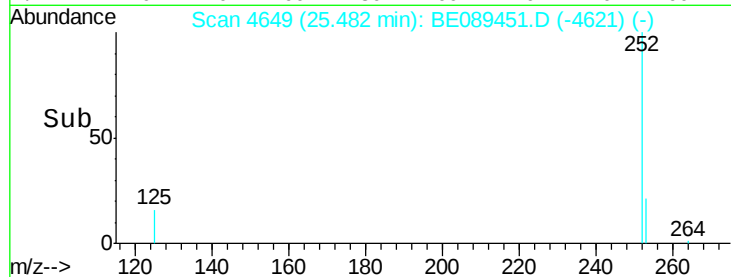
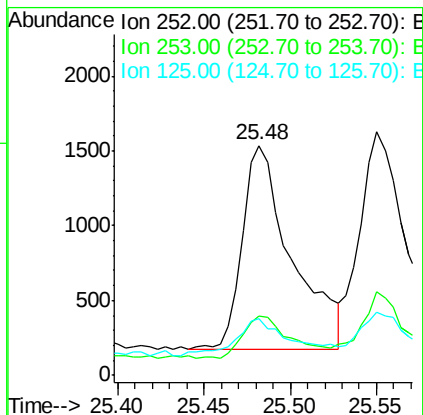
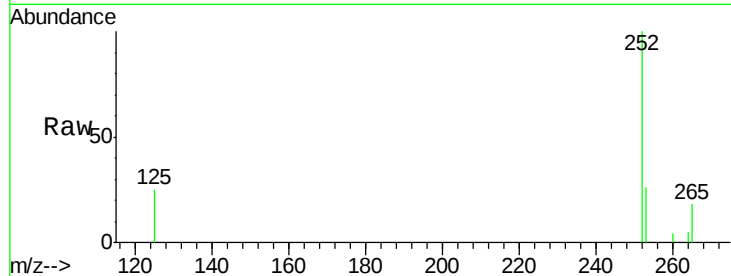
Tgt Ion:252 Resp: 2689

Ion Ratio Lower Upper

252 100

253 25.9 17.3 25.9

125 24.5 12.0 18.0#



#26

Dibenzo(a,h)anthracene

Concen: 0.16 ng

RT: 27.08 min Scan# 4952

Delta R.T. -0.01 min

Lab File: BE089451.D

Acq: 30 Jan 2015 23:53

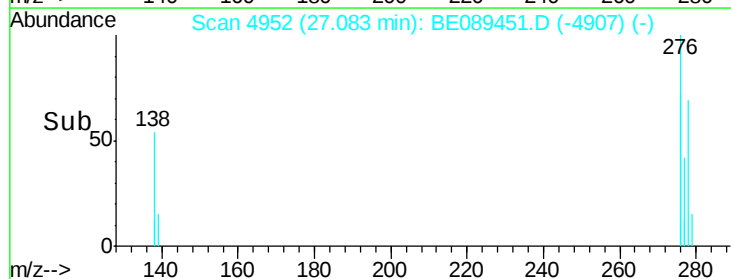
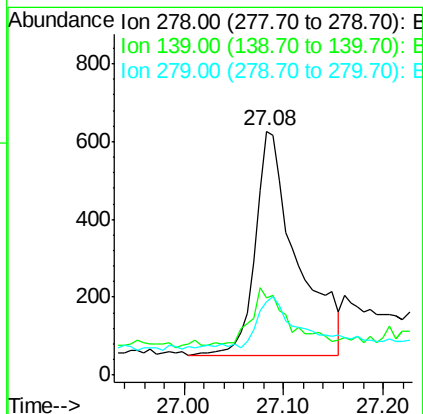
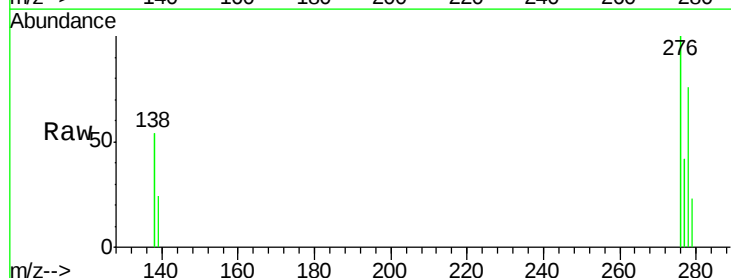
Tgt Ion:278 Resp: 1679

Ion Ratio Lower Upper

278 100

139 31.8 17.0 25.4#

279 30.0 19.1 28.7#





#27

Benzo(g,h,i)perylene

Concen: 0.08 ng

RT: 27.51 min Scan# 5017

Delta R.T. 0.00 min

Lab File: BE089451.D

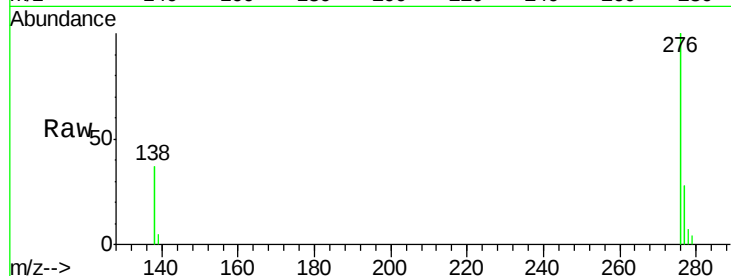
Acq: 30 Jan 2015 23:53

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL2015-02



Tgt Ion: 276 Resp: 15254

Ion Ratio Lower Upper

276 100

277 28.3 18.4 27.6#

138 37.0 23.7 35.5#

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

