

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM040115\
 Data File : BM000796.D
 Acq On : 01 Apr 2015 22:20
 Operator : TP/IZ
 Sample : G1614-04
 Misc : LOQ-SOIL-0.2PPM
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL2015-02

Quant Time: Apr 02 16:01:22 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM033115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 01 04:17:30 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	28798	5.00	ng	0.00
4) Naphthalene-d8	10.40	136	96984	5.00	ng	0.00
8) Acenaphthene-d10	14.28	164	46368	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	101573	5.00	ng	0.00
19) Chrysene-d12	21.21	240	83412	5.00	ng	0.00
25) Perylene-d12	23.40	264	76719	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) Nitrobenzene-d5	8.77	82	51508	8.64	ng	0.00
9) 2-Fluorobiphenyl	12.89	172	154891	10.77	ng	0.00
21) Terphenyl-d14	19.66	244	115950	11.55	ng	0.00

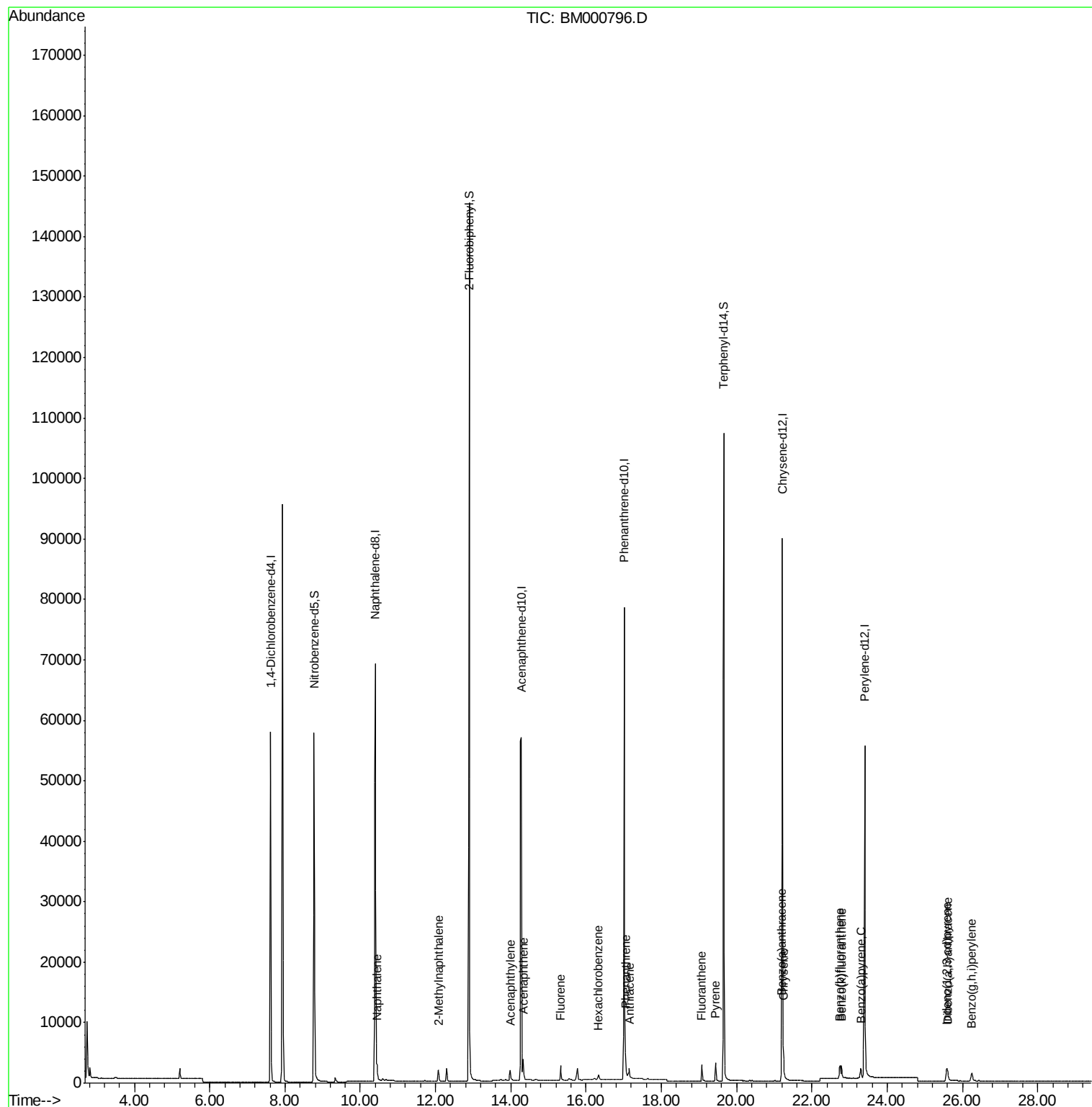
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Naphthalene	10.45	128	2797	0.12	ng	# 94
7) 2-Methylnaphthalene	12.08	142	1740	0.12	ng	96
10) Acenaphthylene	13.98	152	2183	0.11	ng	100
11) Acenaphthene	14.33	154	1865	0.13	ng	93
12) Fluorene	15.32	166	1960	0.12	ng	99
14) Hexachlorobenzene	16.33	284	748	0.13	ng	# 97
16) Phenanthrene	17.05	178	3397	0.12	ng	97
17) Anthracene	17.15	178	2654	0.11	ng	100
18) Fluoranthene	19.08	202	3185	0.12	ng	99
20) Pyrene	19.44	202	3334	0.12	ng	99
22) Benzo(a)anthracene	21.19	228	3002	0.13	ng	# 91
23) Chrysene	21.24	228	3394	0.14	ng	97
24) Indeno(1,2,3-cd)pyrene	25.58	276	3105	0.12	ng	99
26) Benzo(b)fluoranthene	22.74	252	3017	0.12	ng	# 82
27) Benzo(k)fluoranthene	22.79	252	2855	0.12	ng	# 81
28) Benzo(a)pyrene	23.30	252	2611	0.13	ng	# 77
29) Dibenzo(a,h)anthracene	25.60	278	2509	0.12	ng	# 84
30) Benzo(g,h,i)perylene	26.25	276	2816	0.13	ng	# 89

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

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Quant Time: Apr 02 16:01:22 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM033115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 01 04:17:30 2015
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.61 min Scan# 919

Delta R.T. -0.01 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL2015-02

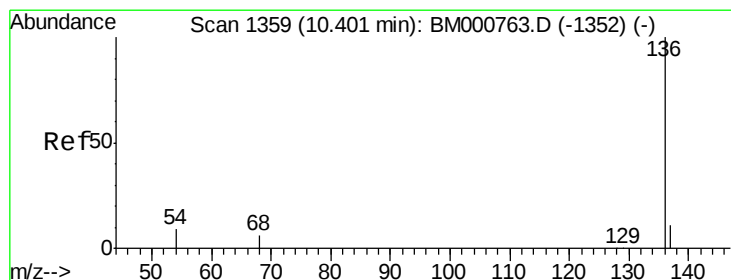
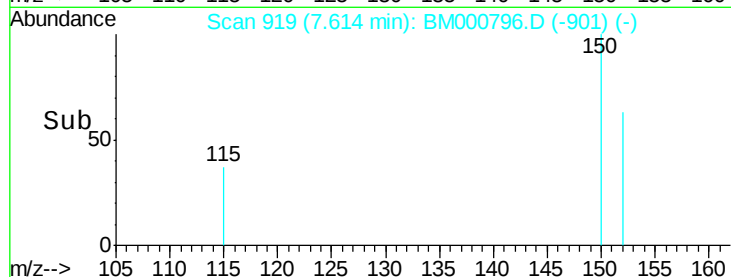
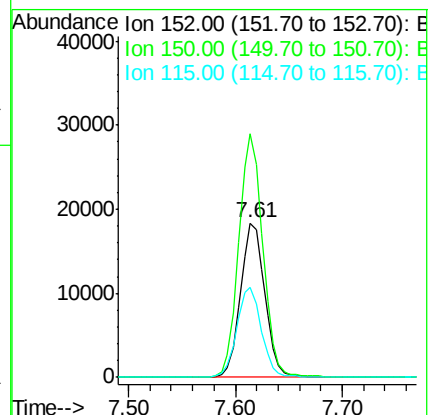
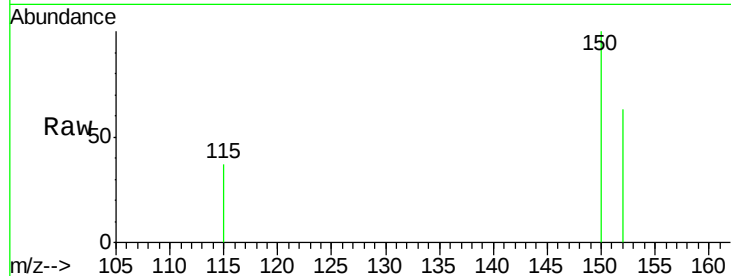
Tgt Ion:152 Resp: 28798

Ion Ratio Lower Upper

152 100

150 157.9 120.8 181.2

115 58.5 42.7 64.1



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.40 min Scan# 1359

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

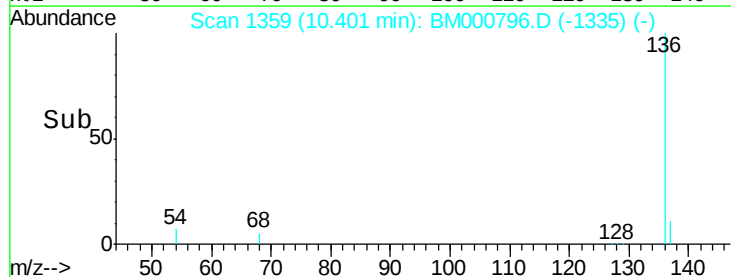
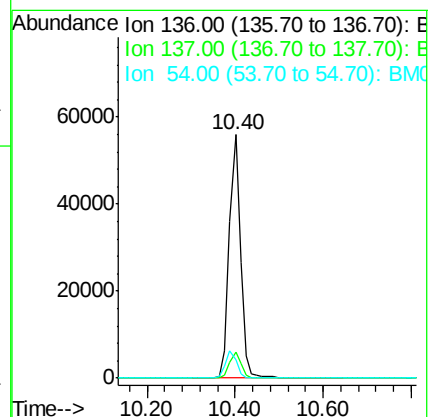
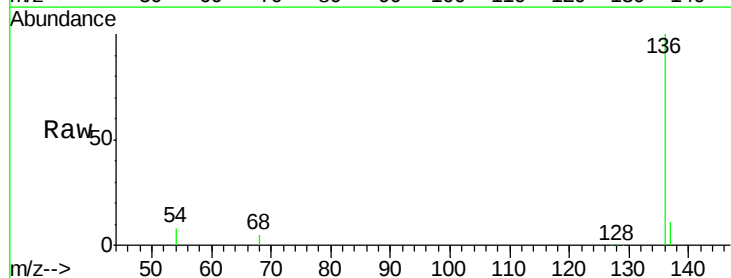
Tgt Ion:136 Resp: 96984

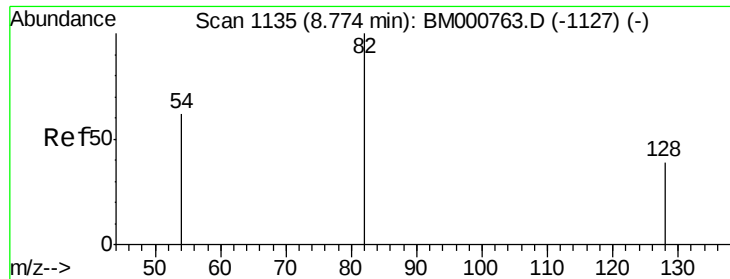
Ion Ratio Lower Upper

136 100

137 10.9 8.6 12.8

54 7.6 7.0 10.6





#5

Nitrobenzene-d5

Concen: 8.64 ng

RT: 8.77 min Scan# 1134

Delta R.T. -0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL2015-02

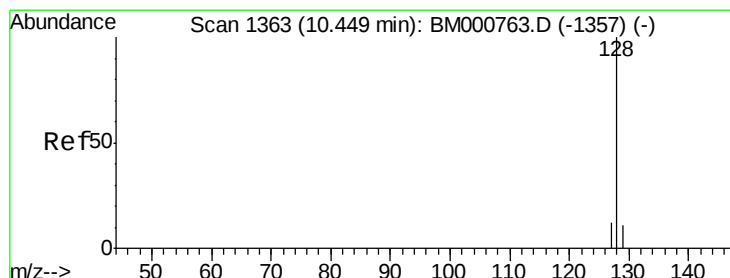
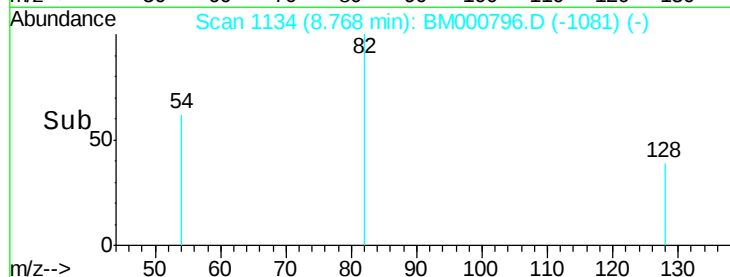
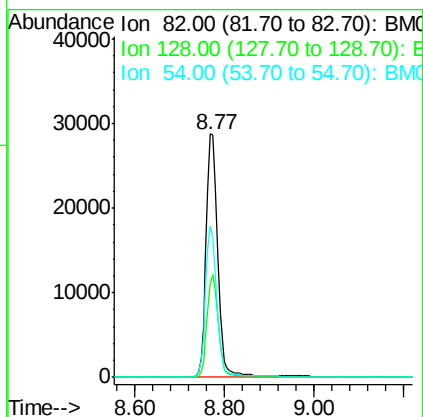
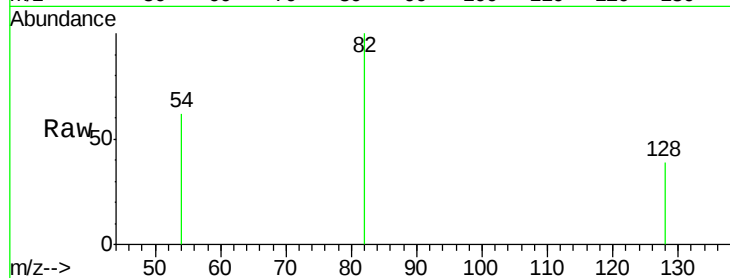
Tgt Ion: 82 Resp: 51508

Ion Ratio Lower Upper

82 100

128 38.6 32.2 48.2

54 62.5 50.2 75.4



#6

Naphthalene

Concen: 0.12 ng

RT: 10.45 min Scan# 1363

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

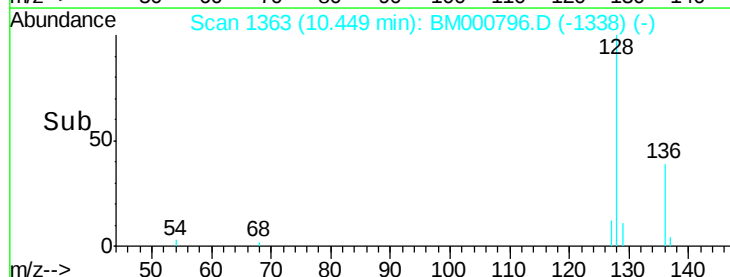
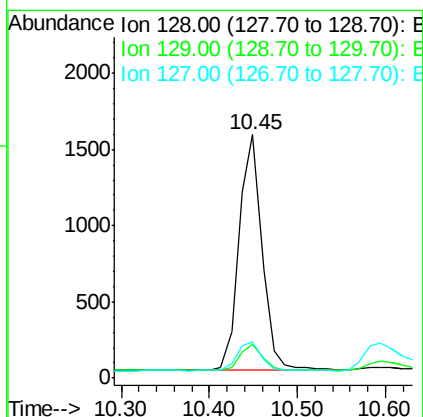
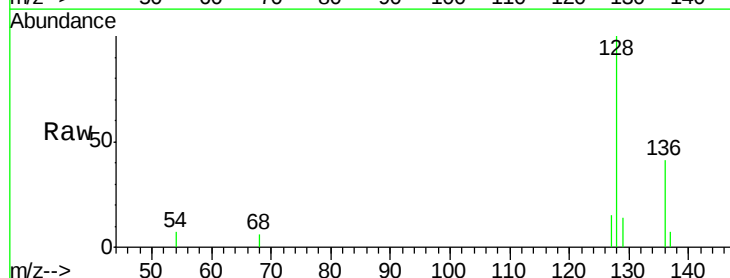
Tgt Ion: 128 Resp: 2797

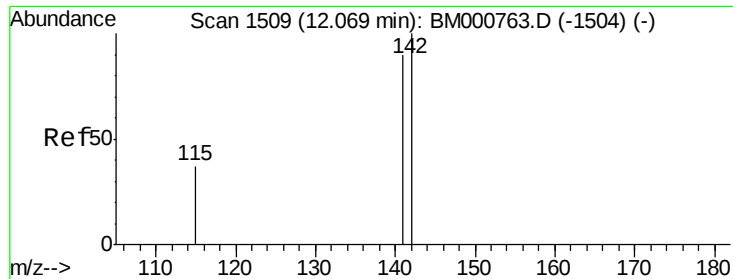
Ion Ratio Lower Upper

128 100

129 14.0 8.9 13.3#

127 14.6 10.0 15.0





#7

2-Methylnaphthalene

Concen: 0.12 ng

RT: 12.08 min Scan# 1510

Delta R.T. 0.01 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL2015-02

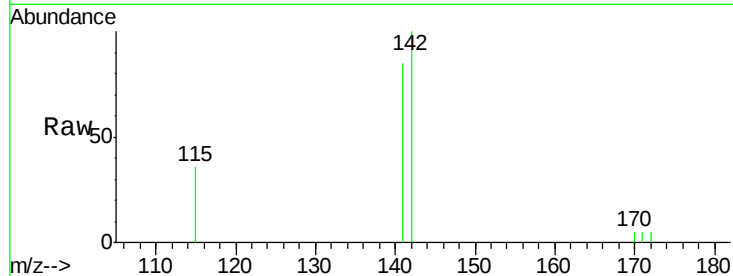
Tgt Ion:142 Resp: 1740

Ion Ratio Lower Upper

142 100

141 85.2 72.3 108.5

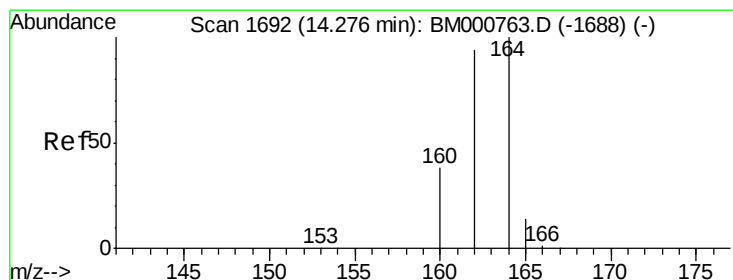
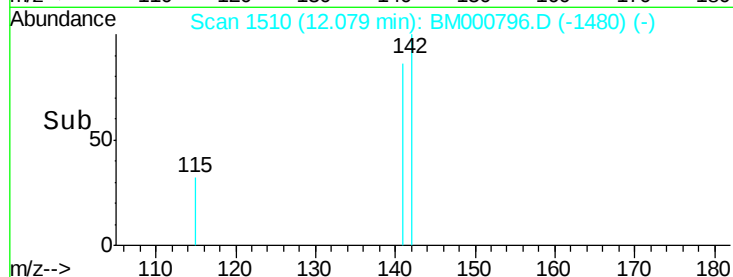
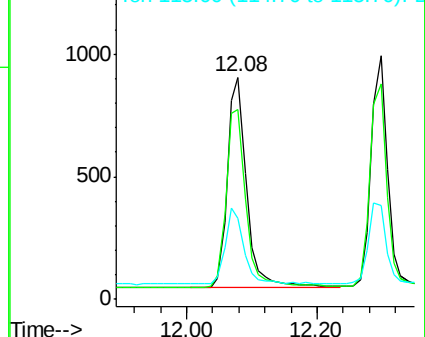
115 36.4 29.5 44.3



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.28 min Scan# 1692

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

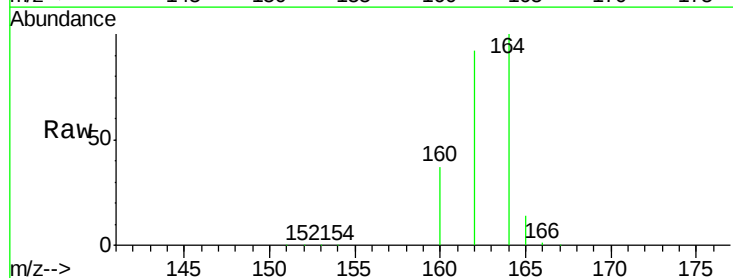
Tgt Ion:164 Resp: 46368

Ion Ratio Lower Upper

164 100

162 91.8 75.4 113.2

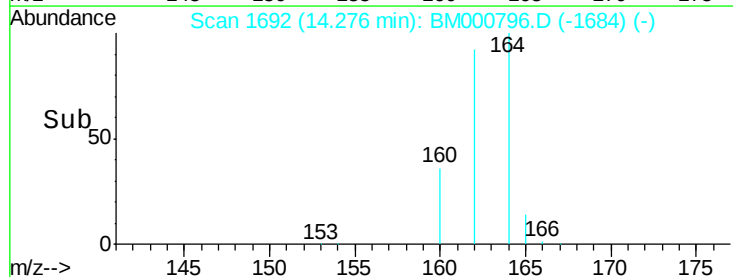
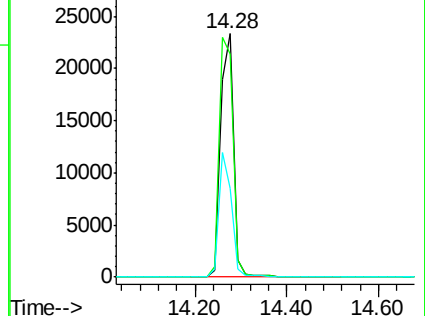
160 36.6 30.8 46.2

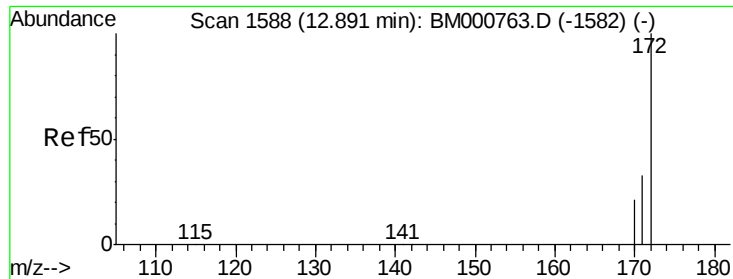


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 10.77 ng

RT: 12.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

Instrument :

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LOQ-SOIL2015-02

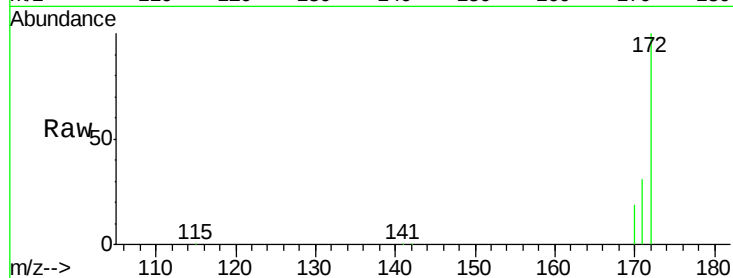
Tgt Ion:172 Resp: 154891

Ion Ratio Lower Upper

172 100

171 31.2 26.6 39.8

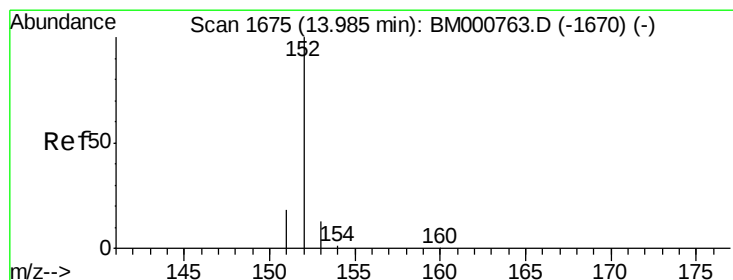
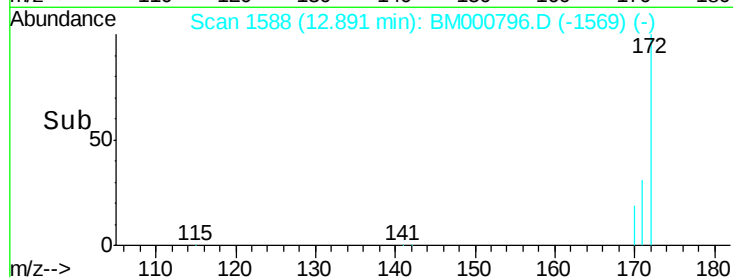
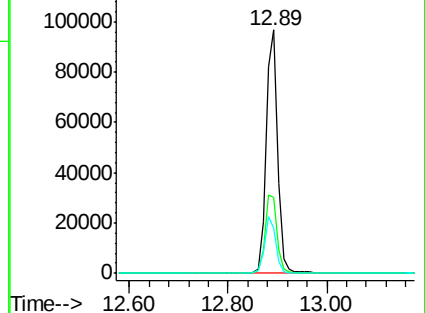
170 18.8 17.1 25.7



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



#10

Acenaphthylene

Concen: 0.11 ng

RT: 13.98 min Scan# 1675

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

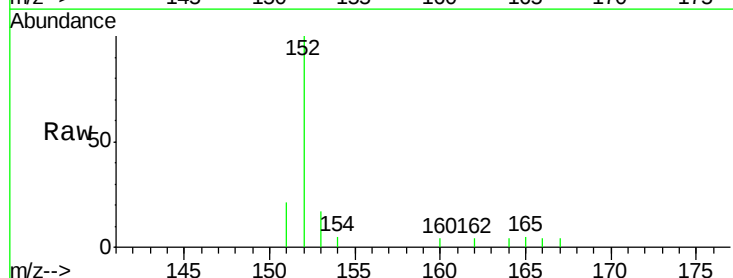
Tgt Ion:152 Resp: 2183

Ion Ratio Lower Upper

152 100

151 18.6 15.1 22.7

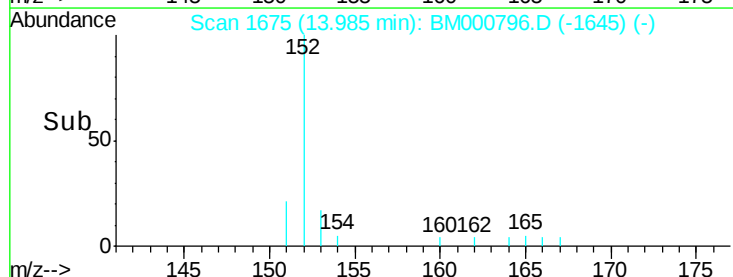
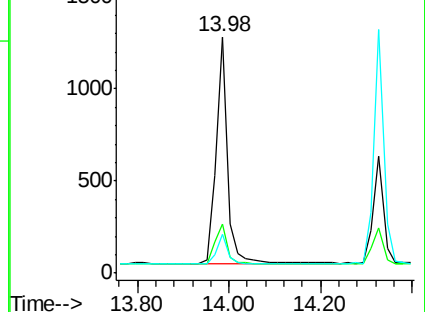
153 12.8 10.2 15.4

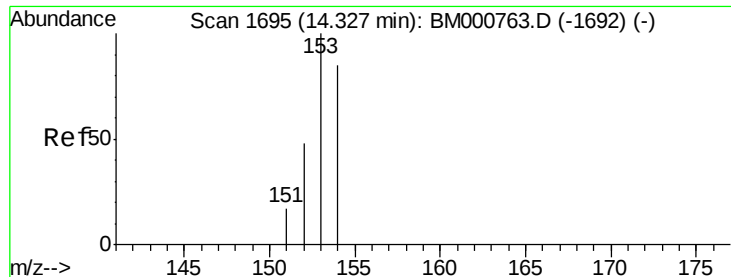


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.13 ng

RT: 14.33 min Scan# 1695

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL2015-02

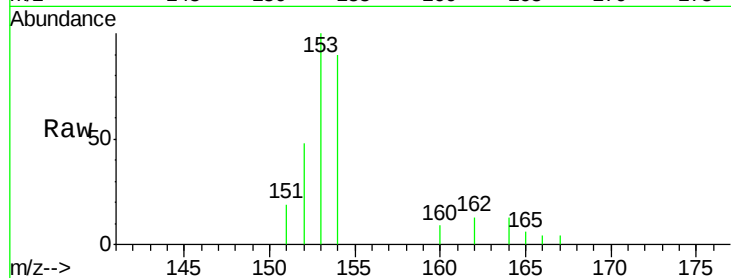
Tgt Ion:154 Resp: 1865

Ion Ratio Lower Upper

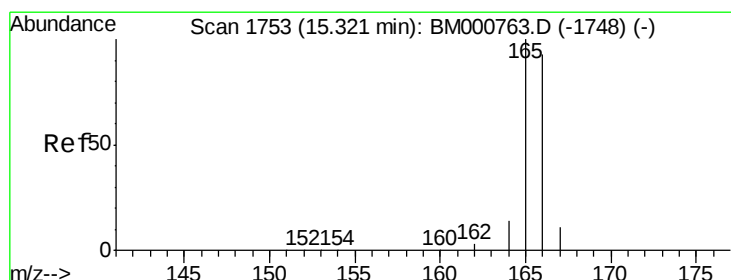
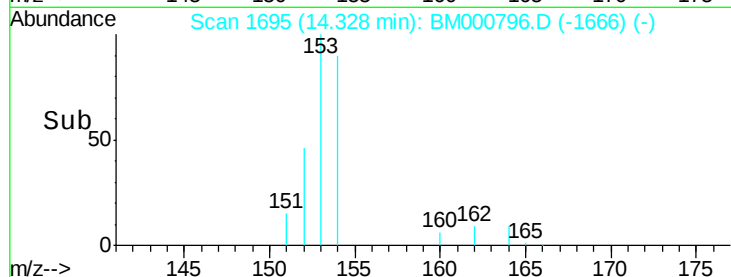
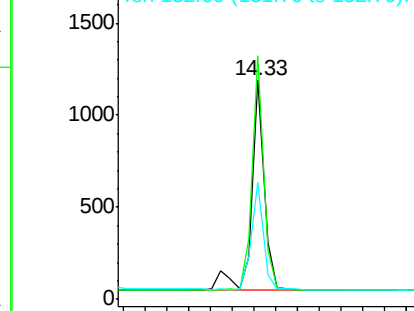
154 100

153 101.4 87.3 130.9

152 48.6 43.0 64.6



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



#12

Fluorene

Concen: 0.12 ng

RT: 15.32 min Scan# 1753

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

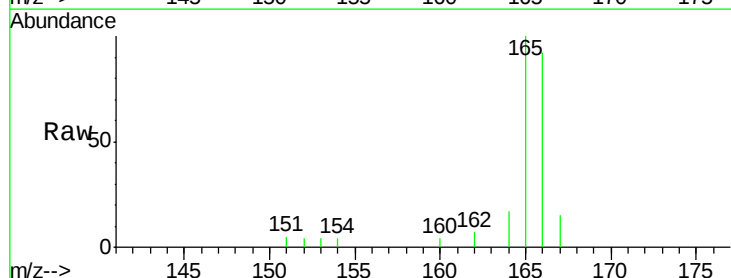
Tgt Ion:166 Resp: 1960

Ion Ratio Lower Upper

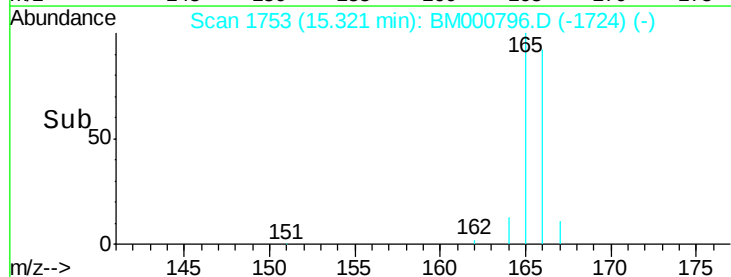
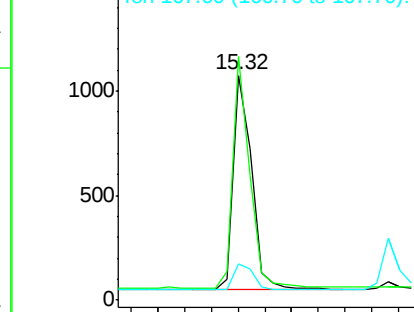
166 100

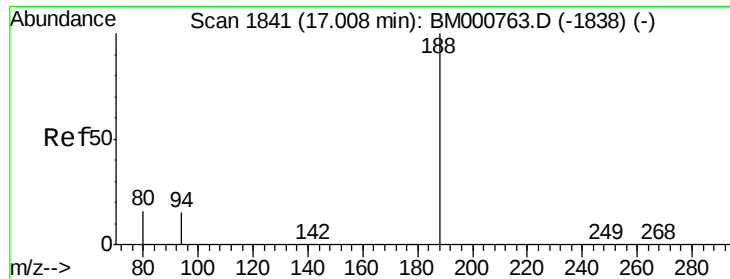
165 98.9 78.2 117.2

167 13.4 10.7 16.1



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

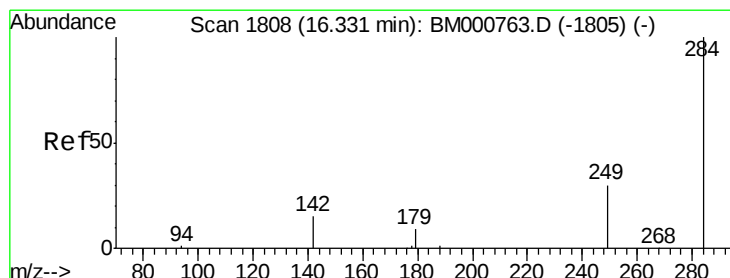
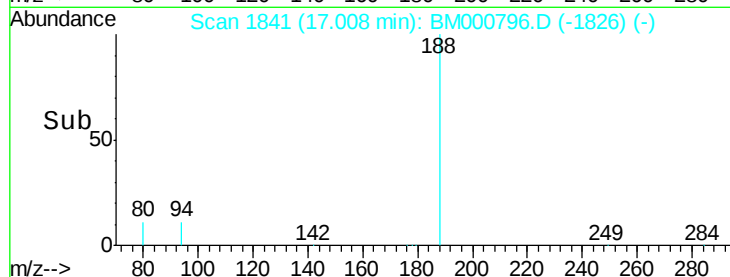
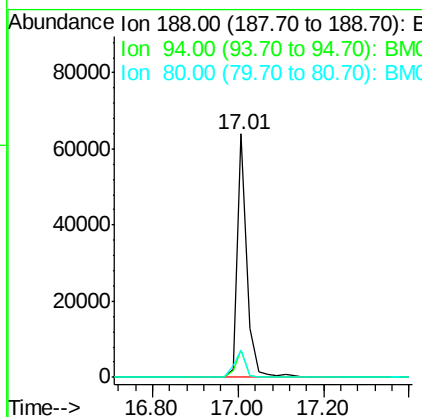
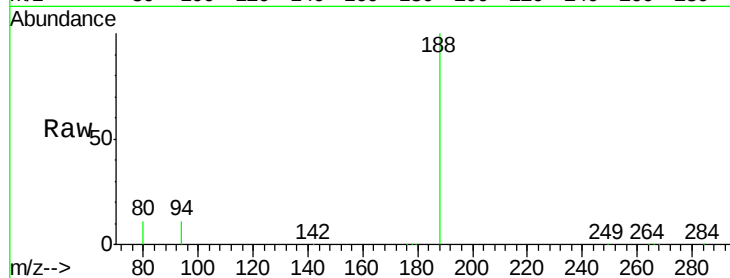




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.01 min Scan# 1841
Delta R.T. 0.00 min
Lab File: BM000796.D
Acq: 01 Apr 2015 22:20

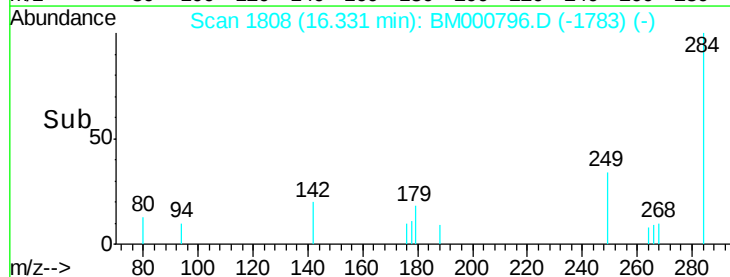
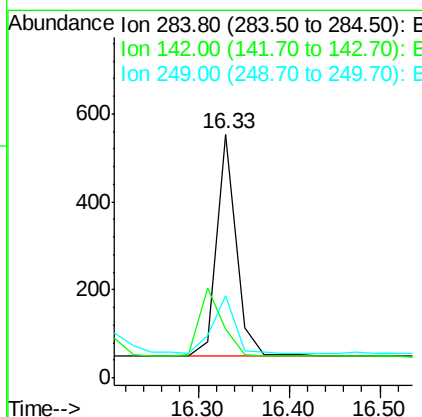
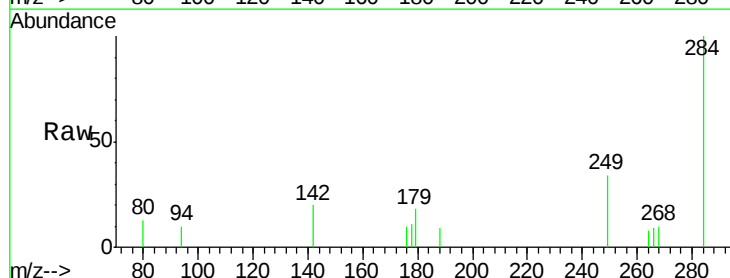
Instrument :
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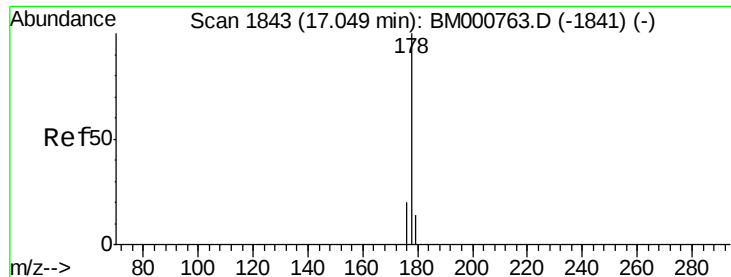
Tgt Ion:188 Resp: 101573
Ion Ratio Lower Upper
188 100
94 11.0 12.0 18.0#
80 11.0 12.8 19.2#



#14
Hexachlorobenzene
Concen: 0.13 ng
RT: 16.33 min Scan# 1808
Delta R.T. 0.00 min
Lab File: BM000796.D
Acq: 01 Apr 2015 22:20

Tgt Ion:284 Resp: 748
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 29.9 25.2 37.8





#16

Phenanthrene

Concen: 0.12 ng

RT: 17.05 min Scan# 1843

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL2015-02

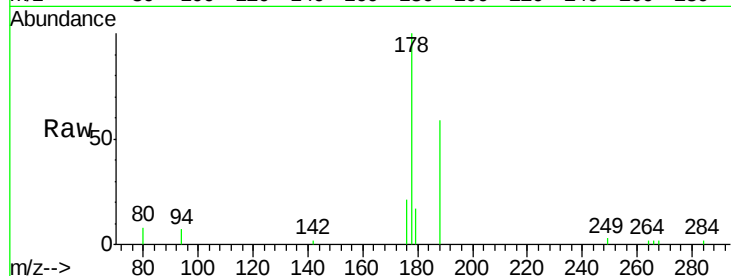
Tgt Ion:178 Resp: 3397

Ion Ratio Lower Upper

178 100

176 18.5 15.3 22.9

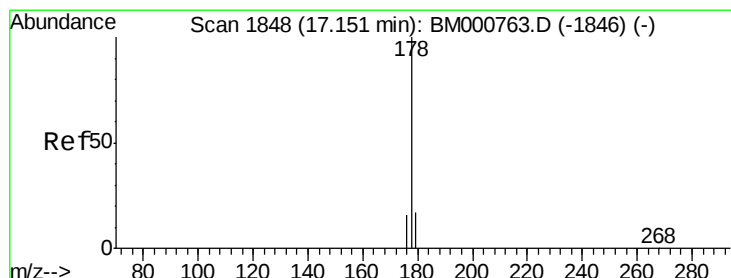
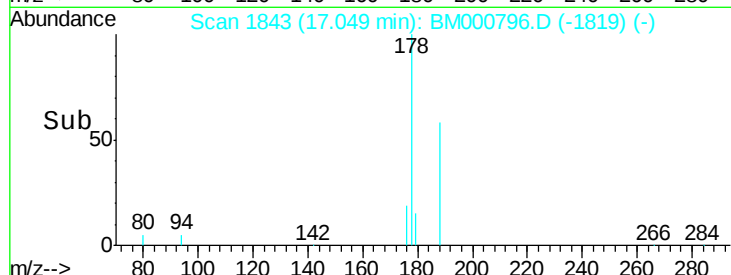
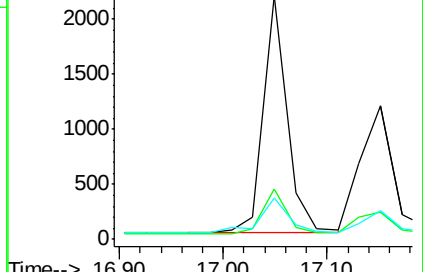
179 17.2 12.2 18.2



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



#17

Anthracene

Concen: 0.11 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

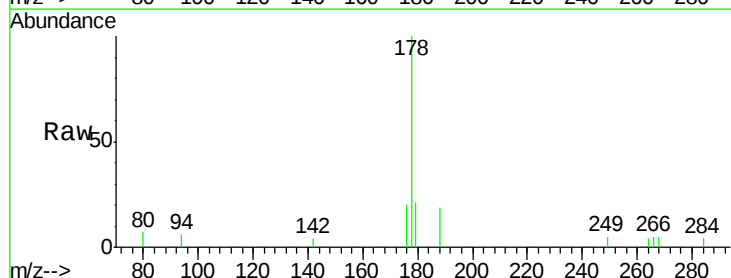
Tgt Ion:178 Resp: 2654

Ion Ratio Lower Upper

178 100

176 18.1 14.6 22.0

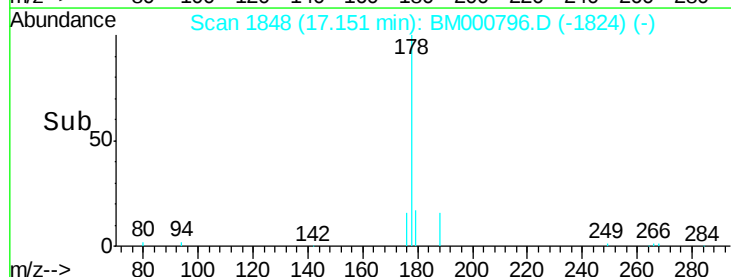
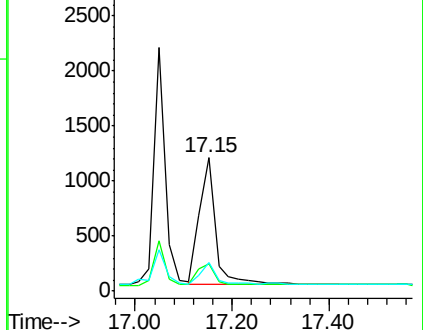
179 15.1 12.2 18.4

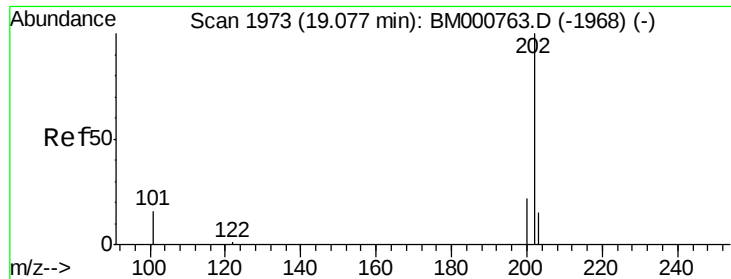


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

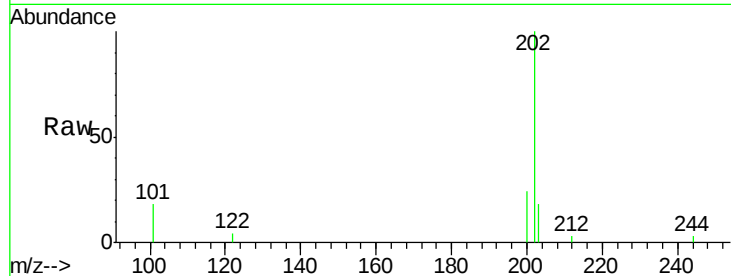




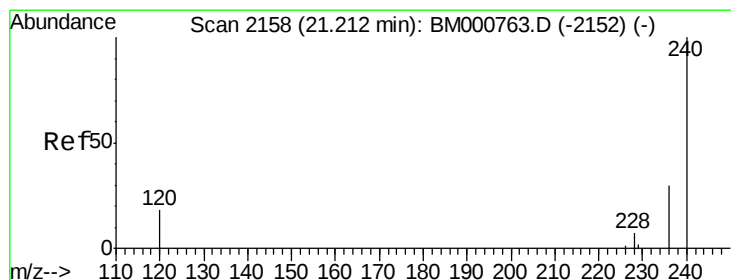
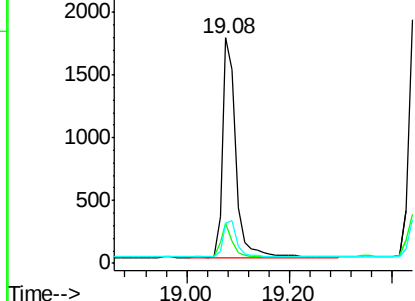
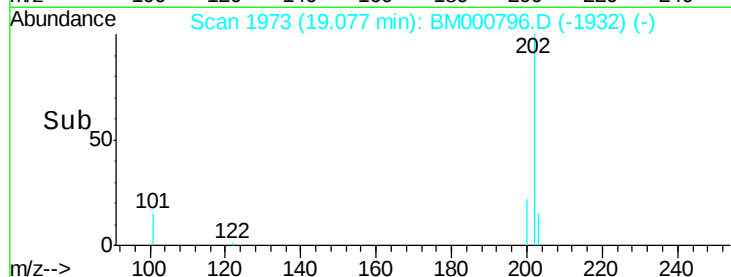
#18
 Fluoranthene
 Concen: 0.12 ng
 RT: 19.08 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: BM000796.D
 Acq: 01 Apr 2015 22:20

Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL2015-02

Tgt Ion:202 Resp: 3185
 Ion Ratio Lower Upper
 202 100
 101 13.5 10.5 15.7
 203 17.5 13.8 20.8

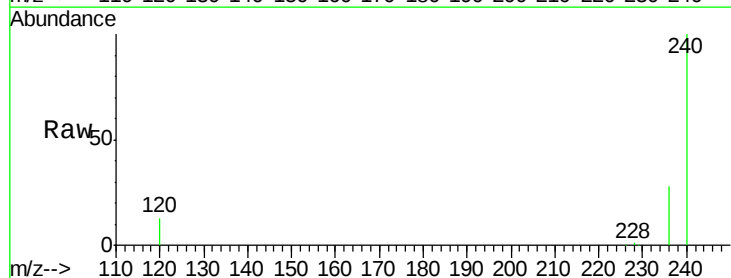


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

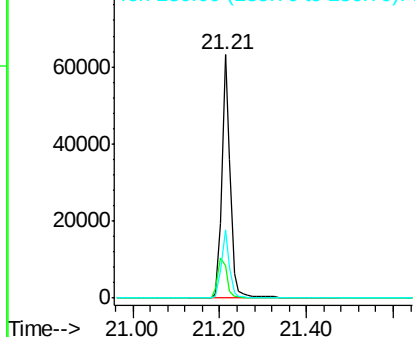
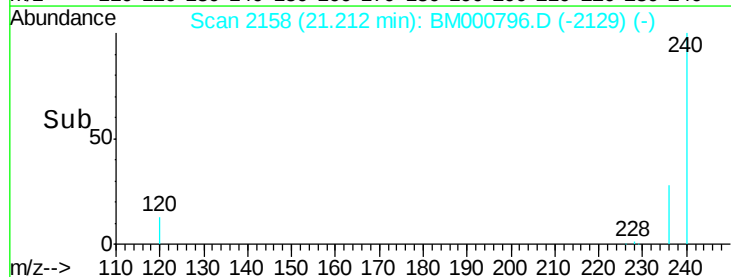


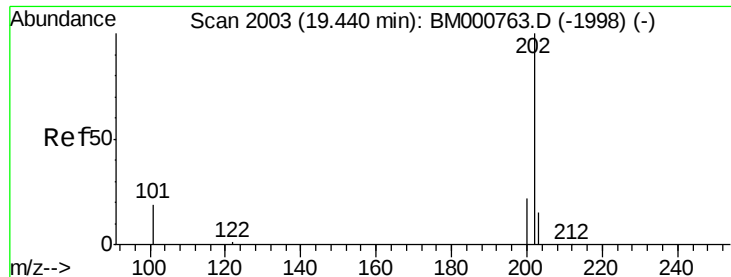
#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.21 min Scan# 2158
 Delta R.T. 0.00 min
 Lab File: BM000796.D
 Acq: 01 Apr 2015 22:20

Tgt Ion:240 Resp: 83412
 Ion Ratio Lower Upper
 240 100
 120 13.1 14.9 22.3#
 236 28.1 24.2 36.4



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

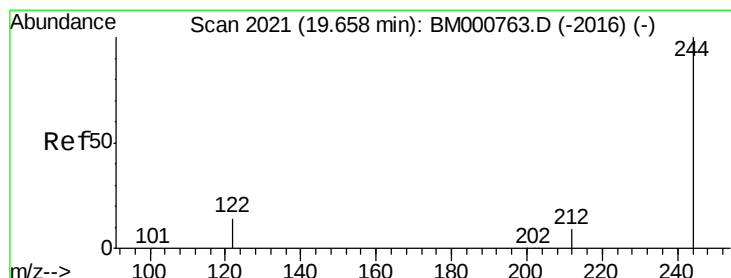
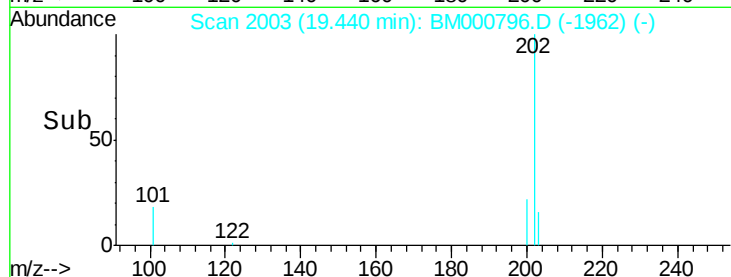
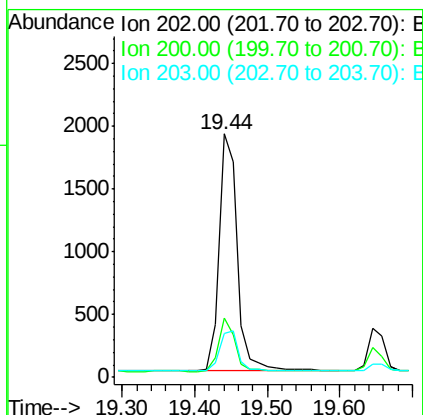
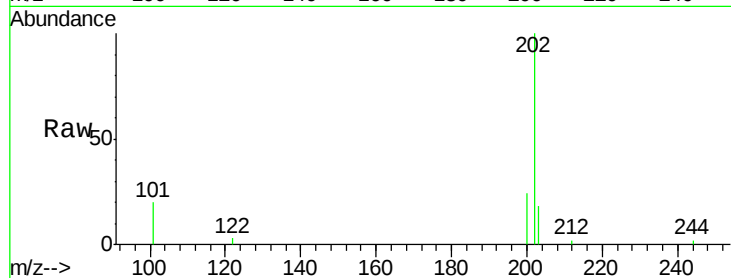




#20
 Pyrene
 Concen: 0.12 ng
 RT: 19.44 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: BM000796.D
 Acq: 01 Apr 2015 22:20

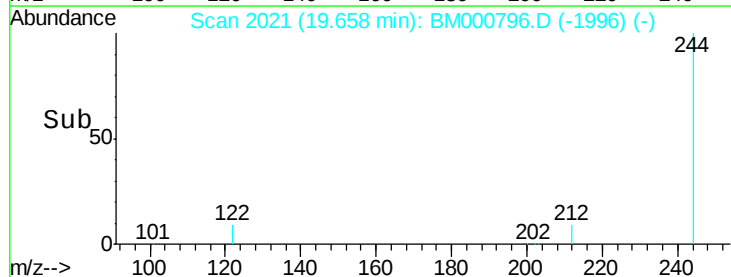
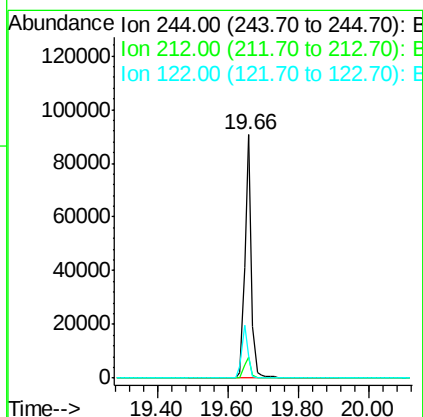
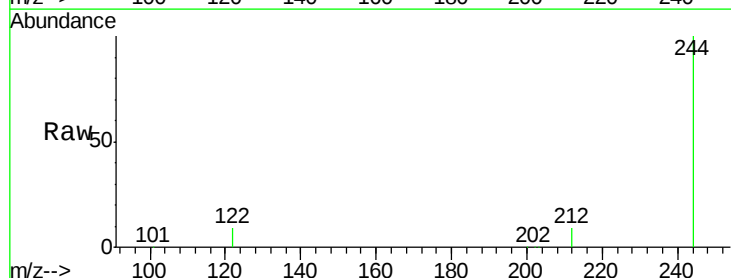
Instrument :
 BNA_M
 ClientSampleId :
 LOQ-SOIL2015-02

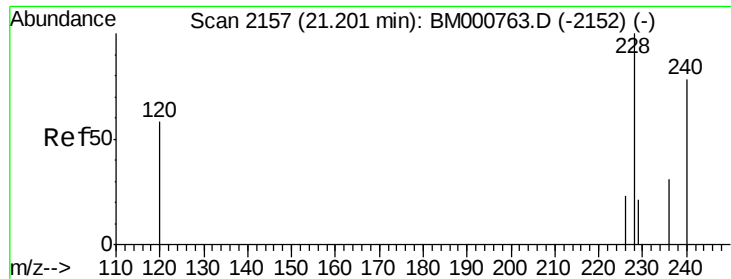
Tgt Ion: 202 Resp: 3334
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.2 24.2
 203 18.5 13.9 20.9



#21
 Terphenyl-d14
 Concen: 11.55 ng
 RT: 19.66 min Scan# 2021
 Delta R.T. 0.00 min
 Lab File: BM000796.D
 Acq: 01 Apr 2015 22:20

Tgt Ion: 244 Resp: 115950
 Ion Ratio Lower Upper
 244 100
 212 8.6 7.8 11.6
 122 9.2 11.8 17.8#





#22

Benzo(a)anthracene

Concen: 0.13 ng

RT: 21.19 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL2015-02

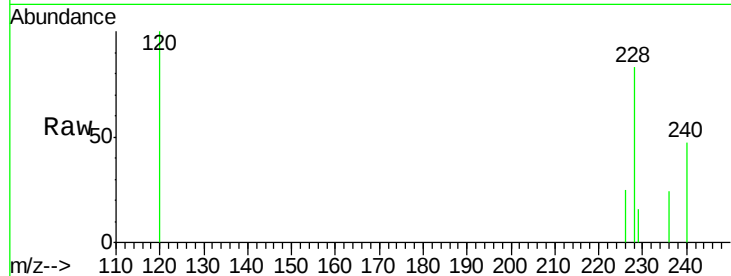
Tgt Ion:228 Resp: 3002

Ion Ratio Lower Upper

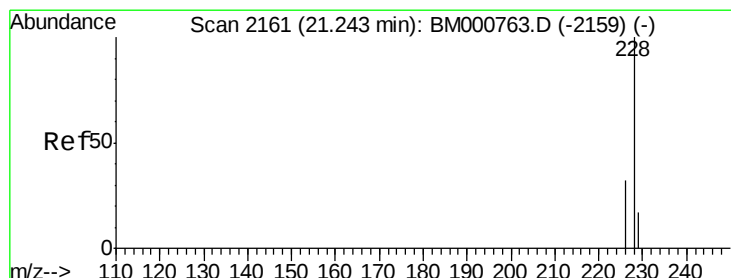
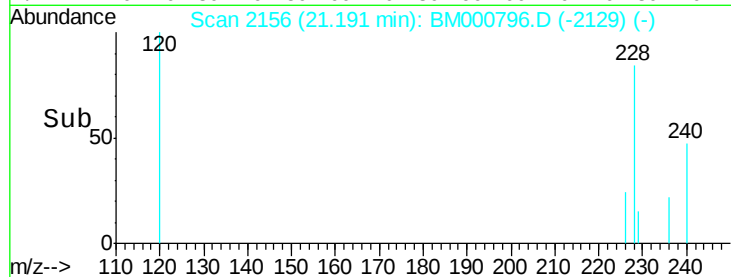
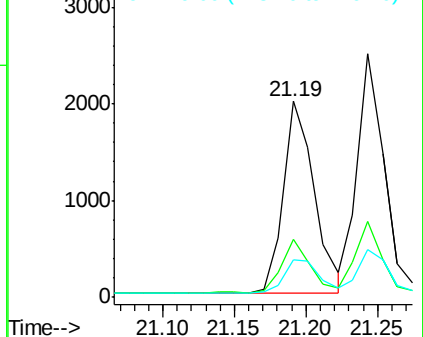
228 100

226 30.0 18.6 27.8#

229 19.4 17.2 25.8



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



#23

Chrysene

Concen: 0.14 ng

RT: 21.24 min Scan# 2161

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

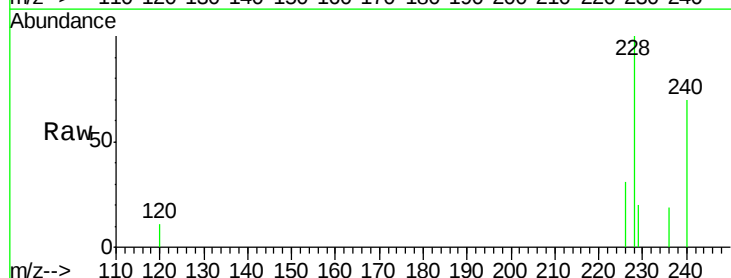
Tgt Ion:228 Resp: 3394

Ion Ratio Lower Upper

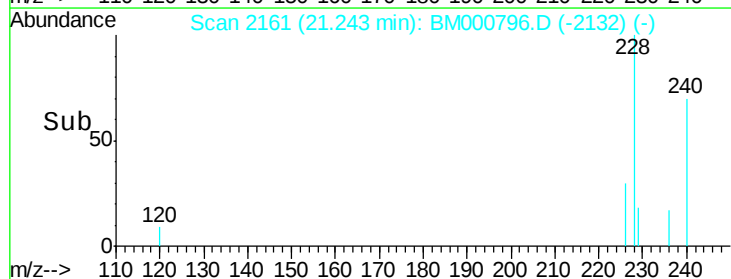
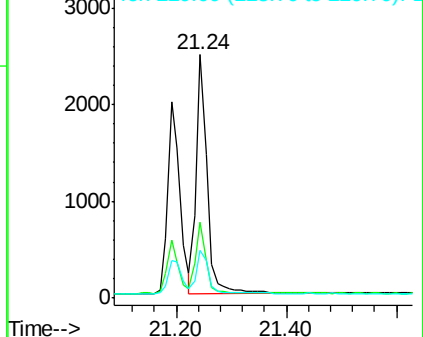
228 100

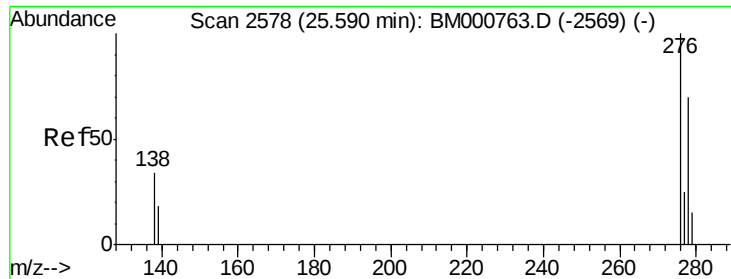
226 31.2 25.8 38.8

229 19.8 13.8 20.6



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





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.12 ng

RT: 25.58 min Scan# 2577

Delta R.T. -0.01 min

Lab File: BM000796.D

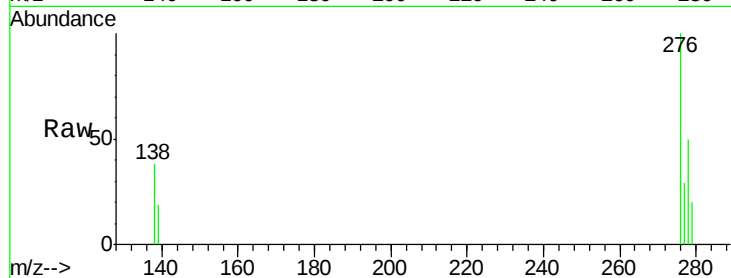
Acq: 01 Apr 2015 22:20

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL2015-02



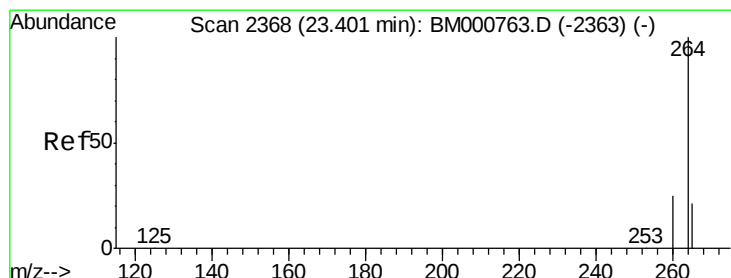
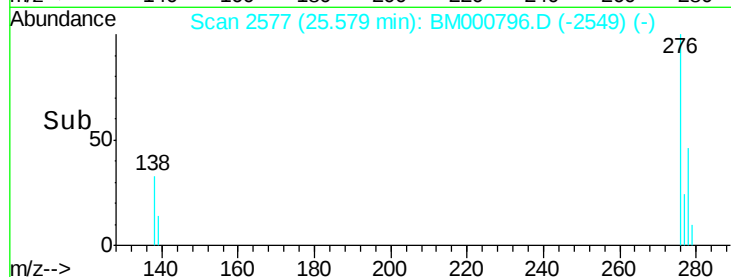
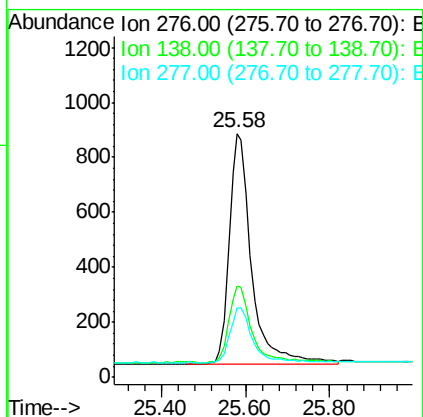
Tgt Ion:276 Resp: 3105

Ion Ratio Lower Upper

276 100

138 34.8 27.4 41.2

277 24.1 19.7 29.5



#25

Perylene-d12

Concen: 5.00 ng

RT: 23.40 min Scan# 2368

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

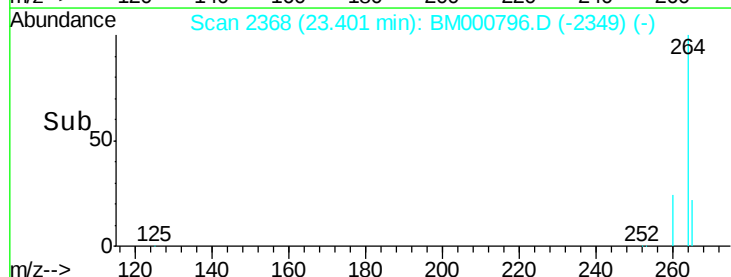
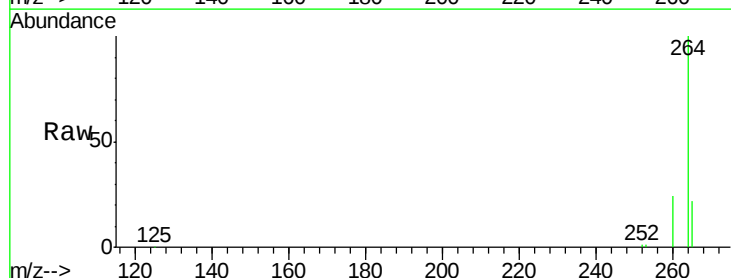
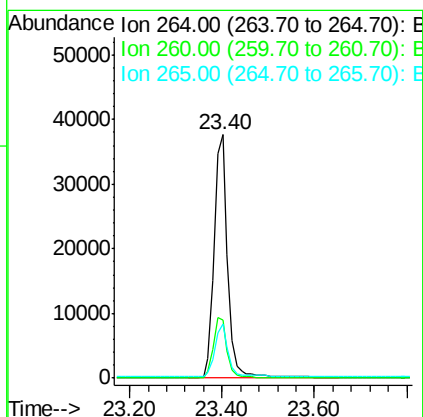
Tgt Ion:264 Resp: 76719

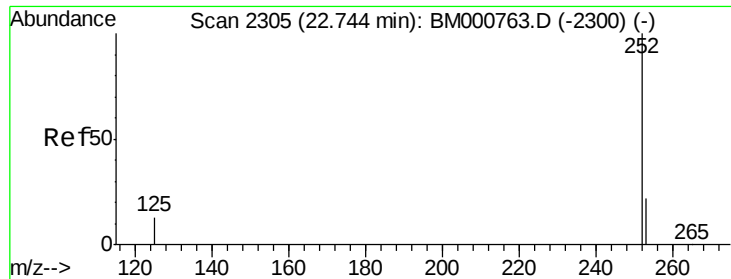
Ion Ratio Lower Upper

264 100

260 23.8 20.1 30.1

265 22.3 17.4 26.0





#26

Benzo(b)fluoranthene

Concen: 0.12 ng

RT: 22.74 min Scan# 2305

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL2015-02

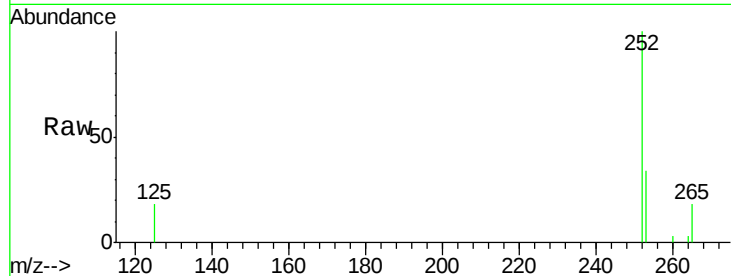
Tgt Ion:252 Resp: 3017

Ion Ratio Lower Upper

252 100

253 34.2 18.5 27.7#

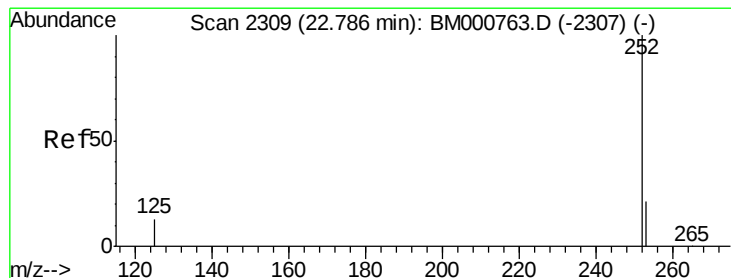
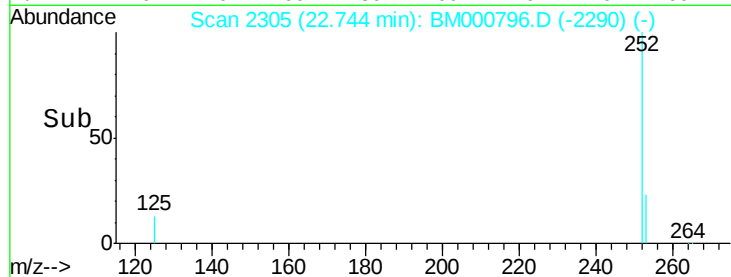
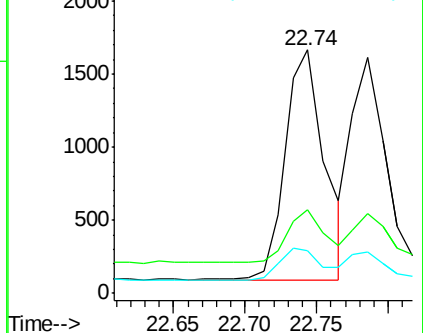
125 17.6 10.6 16.0#



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



#27

Benzo(k)fluoranthene

Concen: 0.12 ng

RT: 22.79 min Scan# 2309

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

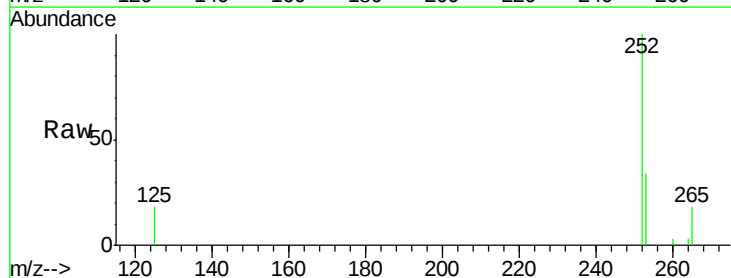
Tgt Ion:252 Resp: 2855

Ion Ratio Lower Upper

252 100

253 34.0 17.9 26.9#

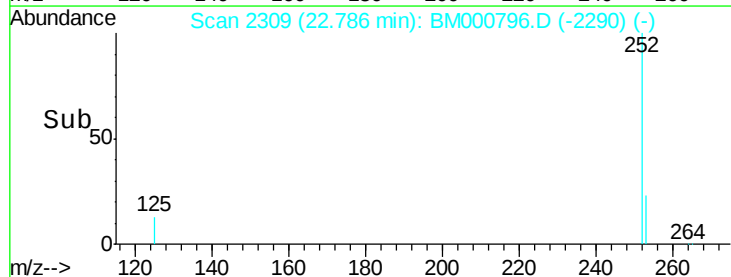
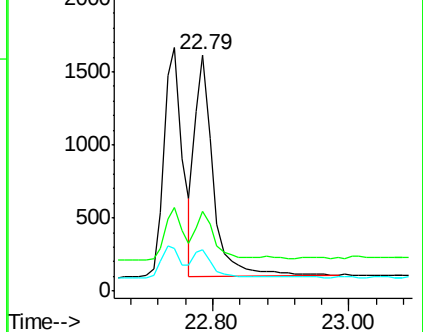
125 17.7 10.8 16.2#

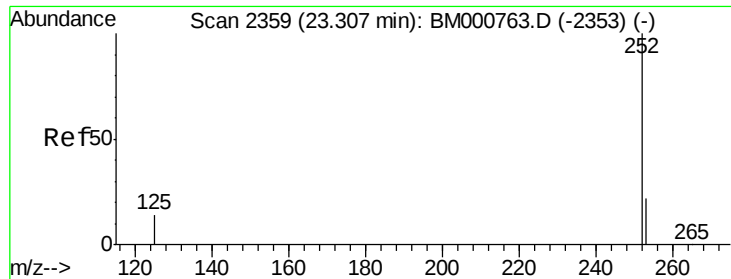


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#28

Benzo(a)pyrene

Concen: 0.13 ng

RT: 23.30 min Scan# 2358

Delta R.T. -0.01 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL2015-02

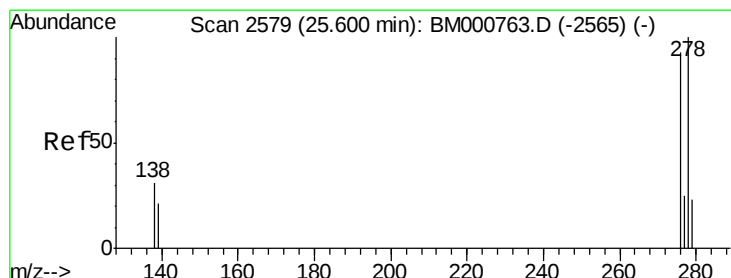
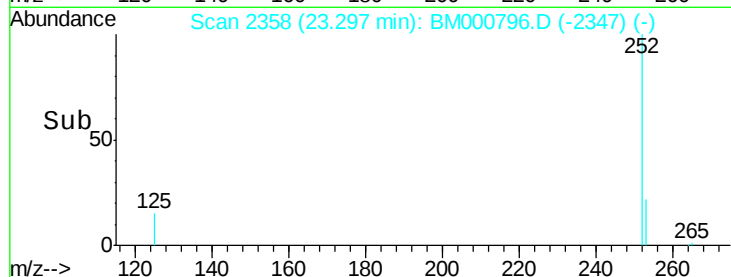
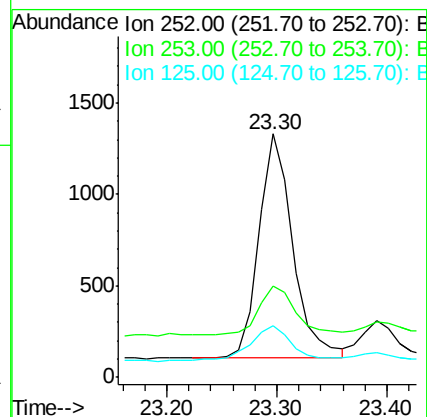
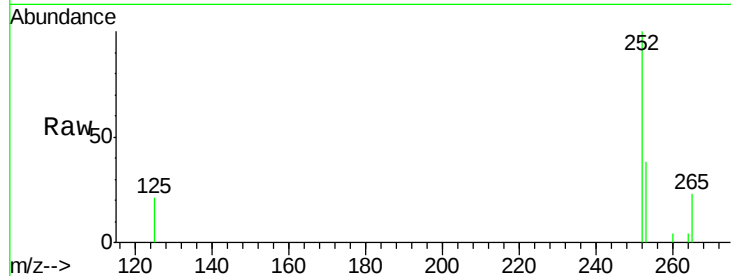
Tgt Ion:252 Resp: 2611

Ion Ratio Lower Upper

252 100

253 37.6 19.4 29.2#

125 21.0 11.5 17.3#



#29

Dibenzo(a,h)anthracene

Concen: 0.12 ng

RT: 25.60 min Scan# 2579

Delta R.T. 0.00 min

Lab File: BM000796.D

Acq: 01 Apr 2015 22:20

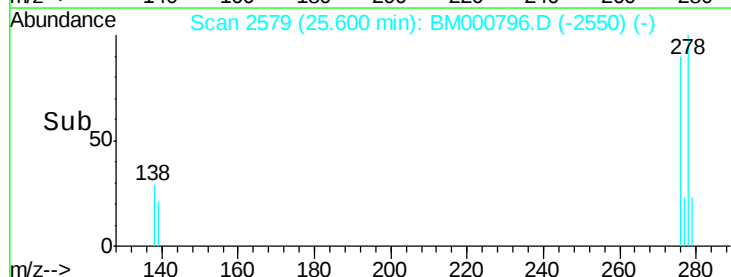
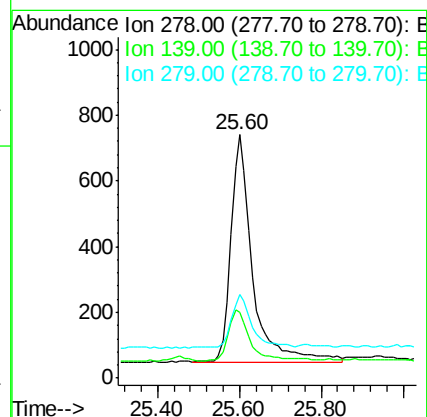
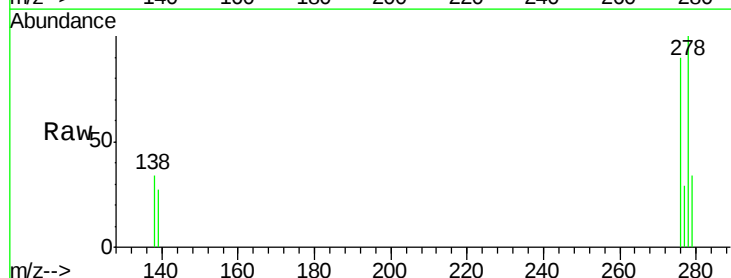
Tgt Ion:278 Resp: 2509

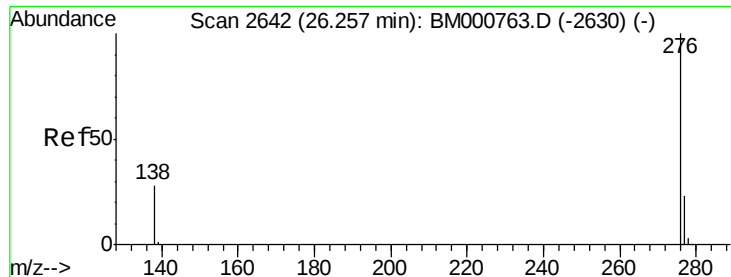
Ion Ratio Lower Upper

278 100

139 27.1 17.8 26.6#

279 34.3 19.3 28.9#





#30

Benzo(g,h,i)perylene

Concen: 0.13 ng

RT: 26.25 min Scan# 2641

Delta R.T. -0.01 min

Lab File: BM000796.D

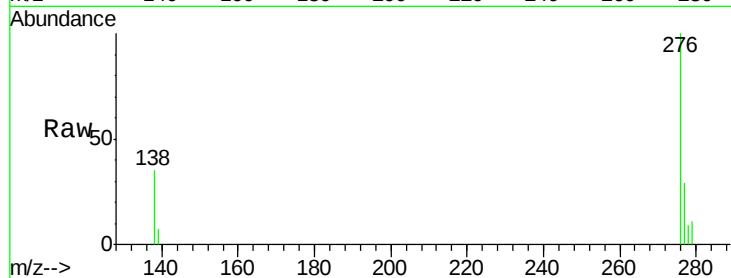
Acq: 01 Apr 2015 22:20

Instrument :

BNA_M

ClientSampleId :

LOQ-SOIL2015-02



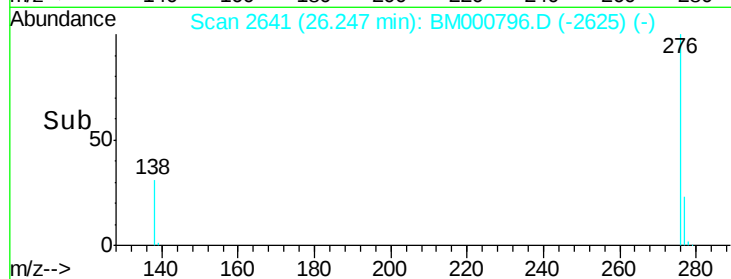
Tgt Ion: 276 Resp: 2816

Ion Ratio Lower Upper

276 100

277 28.6 19.1 28.7

138 35.2 23.1 34.7#



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

