

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA N\DATA\BN030118\  
 Data File : BN000220.D  
 Acq On : 01 Mar 2018 16:46  
 Operator : JU/SJ  
 Sample : J1161-02  
 Misc : L00 0.2 PPM  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 LOQ-SOIL-02-QT1-2018

Quant Time: Mar 01 17:59:40 2018  
 Quant Method : Z:\HPCHEM1\BNA N\METHODS\8270-SIM-BN022718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 27 15:07:57 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.46  | 152  | 7785     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 11.29 | 136  | 27621    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 15.06 | 164  | 13590    | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.78 | 188  | 30545    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.89 | 240  | 21696    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.37 | 264  | 16851    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.93  | 112 | 4973  | 0.30 | ng | 0.00 |
| 5) Phenol-d6                | 7.57  | 99  | 6078  | 0.29 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 9.63  | 82  | 4843  | 0.30 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.85 | 152 | 13474 | 0.32 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 16.53 | 330 | 1197  | 0.28 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.69 | 172 | 20683 | 0.32 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.77 | 212 | 23326 | 0.29 | ng | 0.00 |
| 29) Terphenyl-d14           | 20.33 | 244 | 13830 | 0.36 | ng | 0.00 |

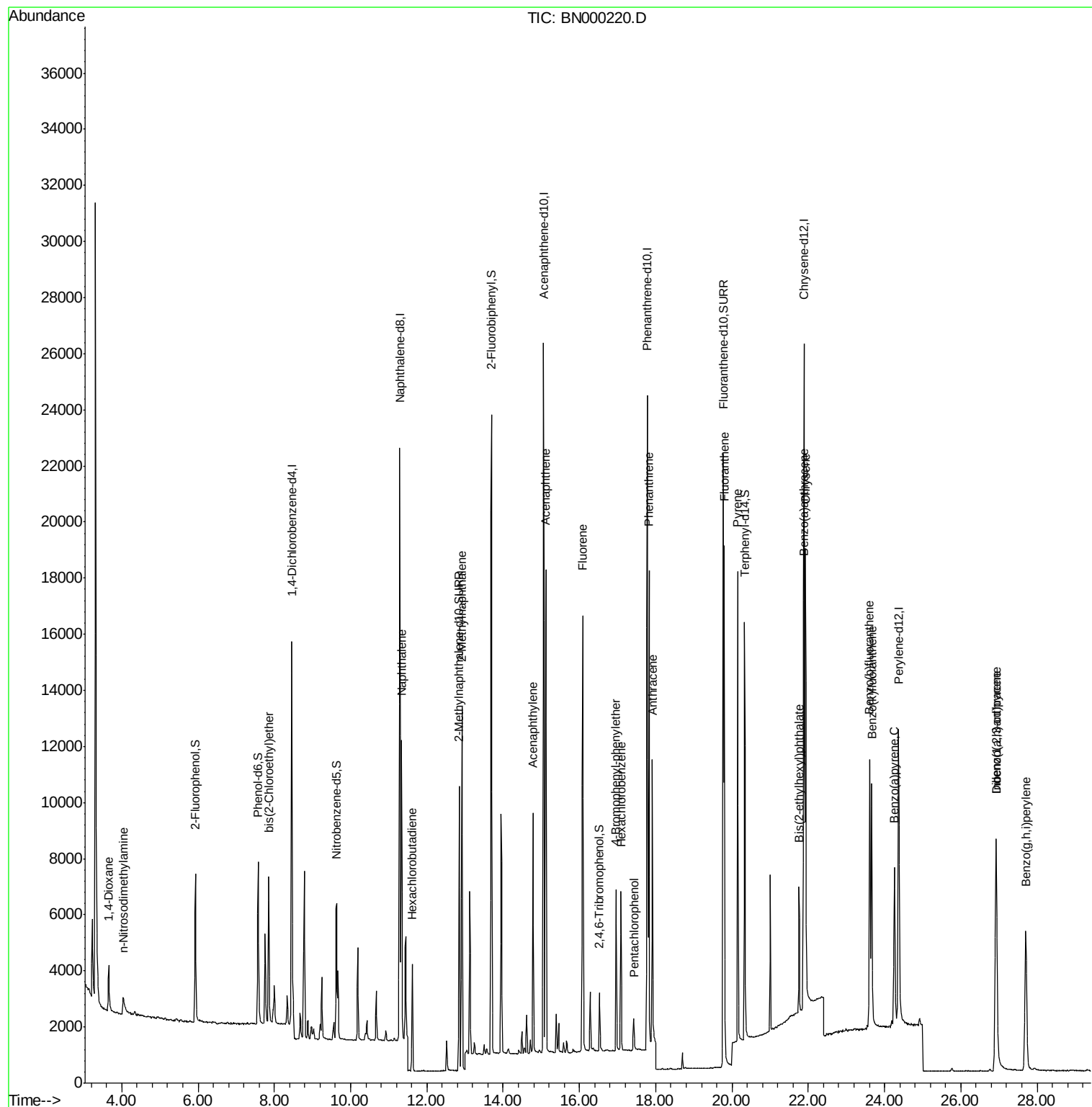
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.66  | 88  | 1448  | 0.180  | ng | 91   |
| 3) n-Nitrosodimethylamine      | 4.04  | 42  | 597   | 0.183  | ng | # 98 |
| 6) bis(2-Chloroethyl)ether     | 7.85  | 93  | 4378  | 0.165  | ng | 99   |
| 9) Naphthalene                 | 11.34 | 128 | 13954 | 0.173  | ng | 96   |
| 10) Hexachlorobutadiene        | 11.62 | 225 | 2422  | 0.177  | ng | 97   |
| 12) 2-Methylnaphthalene        | 12.92 | 142 | 8931  | 0.169  | ng | 99   |
| 16) Acenaphthylene             | 14.79 | 152 | 9556  | 0.149  | ng | 100  |
| 17) Acenaphthene               | 15.12 | 154 | 8501  | 0.168  | ng | 97   |
| 18) Fluorene                   | 16.09 | 166 | 10262 | 0.163  | ng | # 80 |
| 20) 4-Bromophenyl-phenylether  | 16.96 | 248 | 2805  | 0.159  | ng | # 69 |
| 21) Hexachlorobenzene          | 17.09 | 284 | 3937  | 0.167  | ng | 97   |
| 22) Pentachlorophenol          | 17.43 | 266 | 679   | 0.187  | ng | 94   |
| 23) Phenanthrene               | 17.82 | 178 | 17560 | 0.163  | ng | 98   |
| 24) Anthracene                 | 17.91 | 178 | 11757 | 0.144  | ng | 95   |
| 26) Fluoranthene               | 19.80 | 202 | 16600 | 0.149  | ng | # 96 |
| 28) Pyrene                     | 20.15 | 202 | 16743 | 0.197  | ng | 100  |
| 30) Benzo(a)anthracene         | 21.87 | 228 | 11039 | 0.162  | ng | 98   |
| 31) Chrysene                   | 21.93 | 228 | 14274 | 0.179  | ng | 99   |
| 32) Bis(2-ethylhexyl)phthalate | 21.76 | 149 | 4453  | 0.175  | ng | # 98 |
| 33) Indeno(1,2,3-cd)pyrene     | 26.92 | 276 | 10866 | 0.146  | ng | # 89 |
| 35) Benzo(b)fluoranthene       | 23.61 | 252 | 13052 | 0.170  | ng | 98   |
| 36) Benzo(k)fluoranthene       | 23.66 | 252 | 12604 | 0.168  | ng | # 83 |
| 37) Benzo(a)pyrene             | 24.26 | 252 | 9638  | 0.154  | ng | # 81 |
| 38) Dibenzo(a,h)anthracene     | 26.93 | 278 | 8470  | 0.152  | ng | # 88 |
| 39) Benzo(g,h,i)perylene       | 27.71 | 276 | 10600 | 0.161  | ng | # 85 |

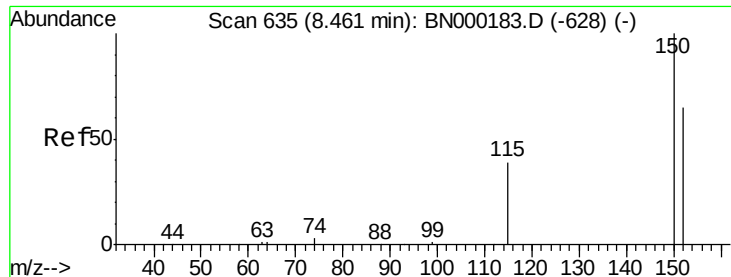
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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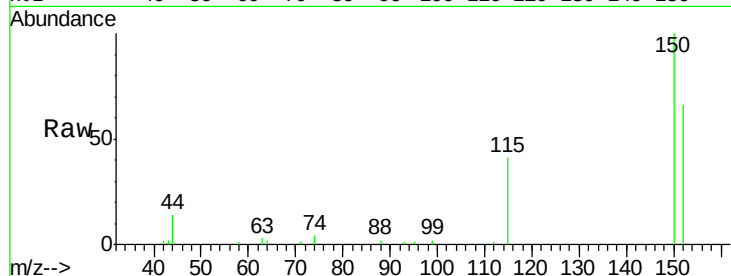


#1

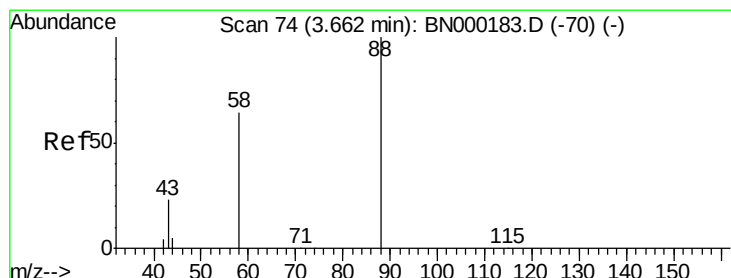
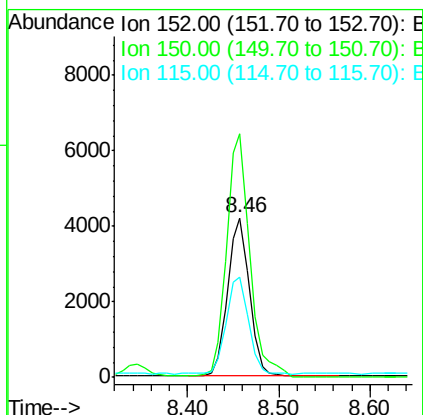
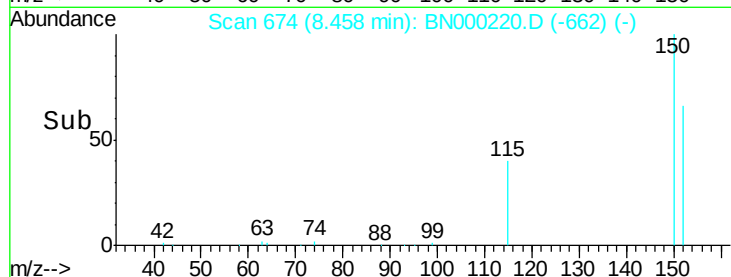
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 8.46 min Scan# 674  
Delta R.T. -0.00 min  
Lab File: BN000220.D  
Acq: 01 Mar 2018 16:46

Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT1-2018

Tot Ion:152 Resp: 7785  
Ion Ratio Lower Upper  
152 100  
150 152.7 117.2 175.8  
115 62.5 57.0 85.6



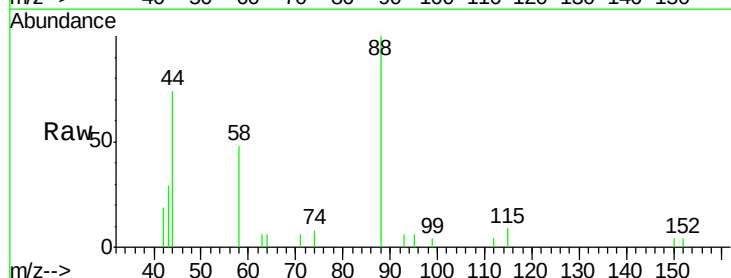
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



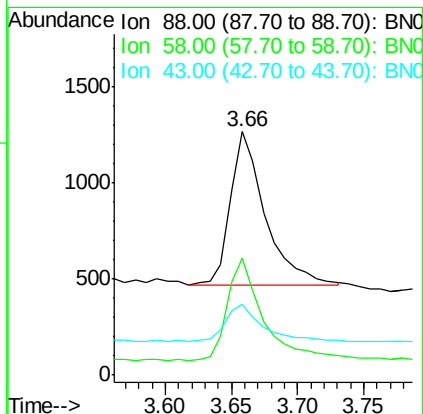
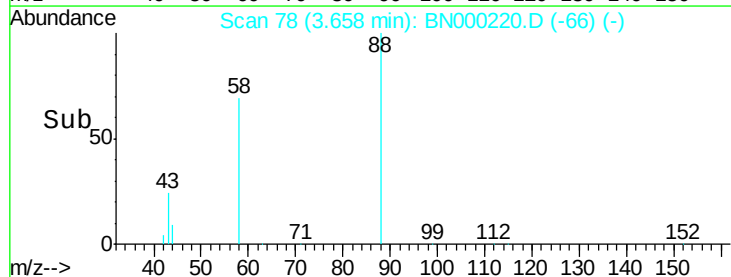
#2

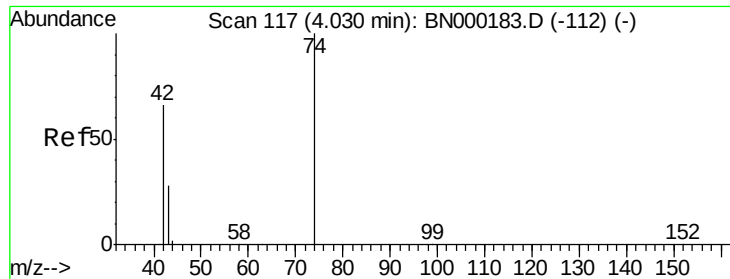
1,4-Dioxane  
Concen: 0.180 ng  
RT: 3.66 min Scan# 78  
Delta R.T. -0.00 min  
Lab File: BN000220.D  
Acq: 01 Mar 2018 16:46

Tgt Ion: 88 Resp: 1448  
Ion Ratio Lower Upper  
88 100  
58 68.4 48.0 72.0  
43 27.3 20.0 30.0



Abundance Ion 88.00 (87.70 to 88.70): BNC  
Ion 58.00 (57.70 to 58.70): BNC  
Ion 43.00 (42.70 to 43.70): BNC



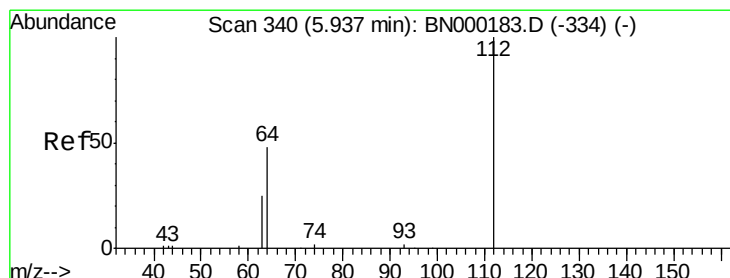
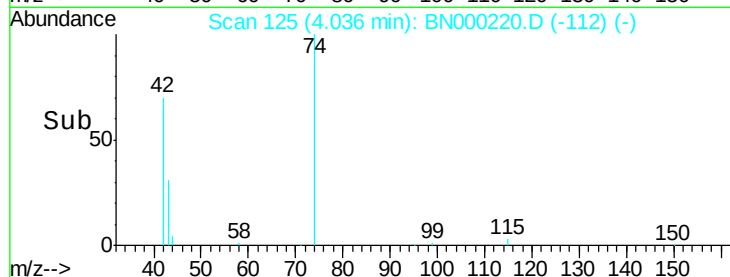
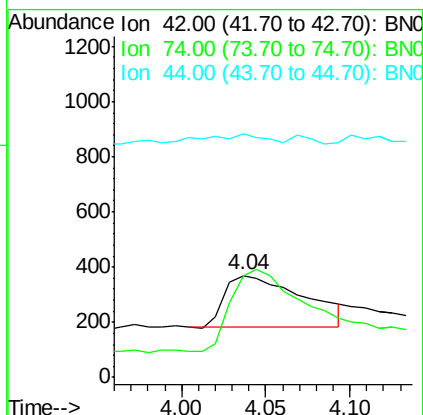
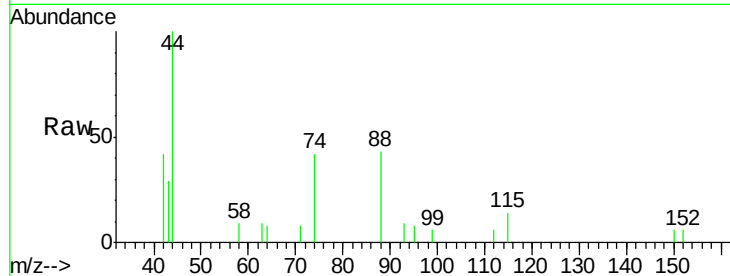


#3

n-Nitrosodimethylamine  
 Concen: 0.183 ng  
 RT: 4.04 min Scan# 125  
 Delta R.T. 0.01 min  
 Lab File: BN000220.D  
 Acq: 01 Mar 2018 16:46

Instrument :  
 BNA\_N  
 ClientSampleId :  
 LOQ-SOIL-02-QT1-2018

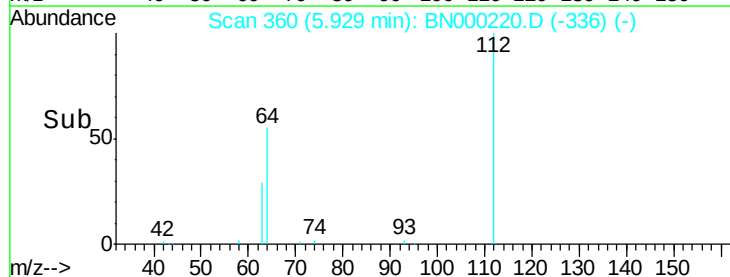
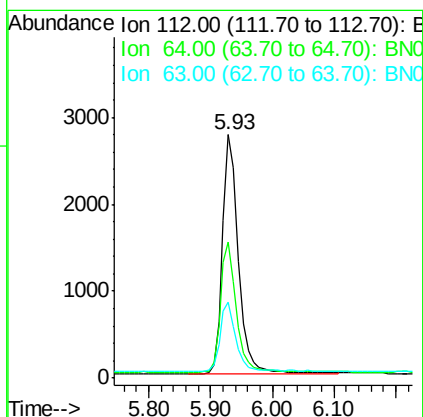
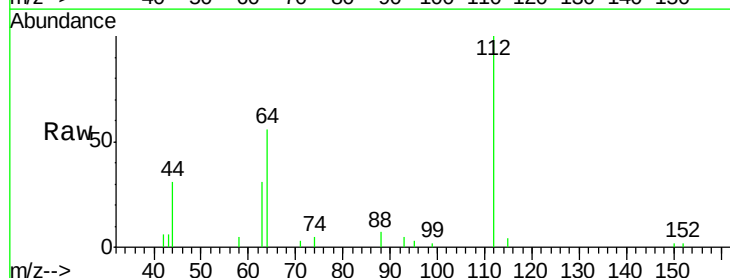
Tot Ion: 42 Resp: 597  
 Ion Ratio Lower Upper  
 42 100  
 74 151.9 120.0 180.0  
 44 14.1 4.0 6.0#

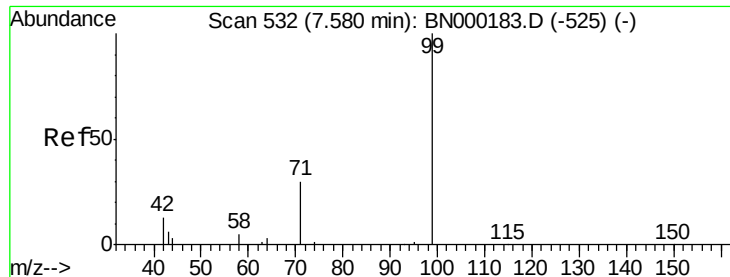


#4

2-Fluorophenol  
 Concen: 0.303 ng  
 RT: 5.93 min Scan# 360  
 Delta R.T. -0.01 min  
 Lab File: BN000220.D  
 Acq: 01 Mar 2018 16:46

Tgt Ion: 112 Resp: 4973  
 Ion Ratio Lower Upper  
 112 100  
 64 54.7 60.1 90.1#  
 63 29.1 116.8 175.2#





#5

Phenol-d6

Concen: 0.291 ng

RT: 7.57 min Scan# 564

Delta R.T. -0.01 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

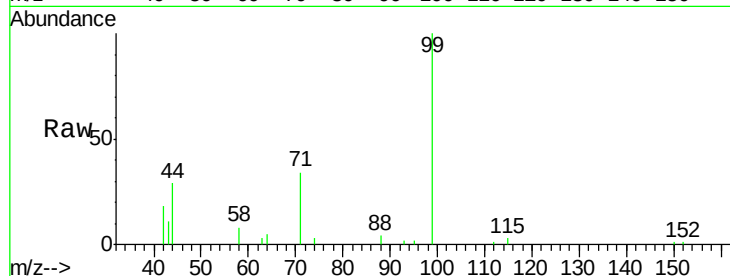
Tot Ion: 99 Resp: 6078

Ion Ratio Lower Upper

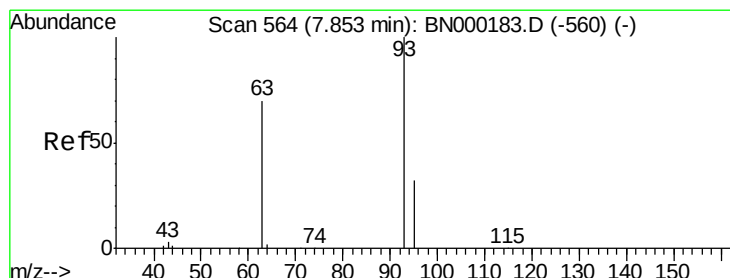
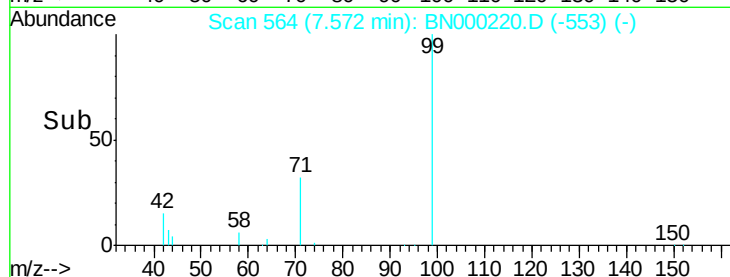
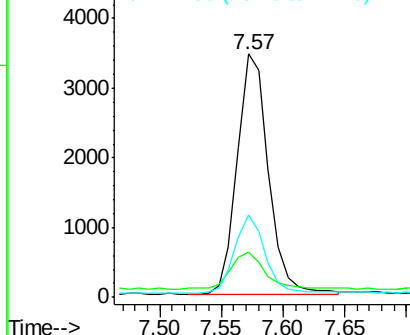
99 100

42 16.8 20.2 30.2#

71 31.2 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BN0  
Ion 42.00 (41.70 to 42.70): BN0  
Ion 71.00 (70.70 to 71.70): BN0



#6

bis(2-Chloroethyl)ether

Concen: 0.165 ng

RT: 7.85 min Scan# 599

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

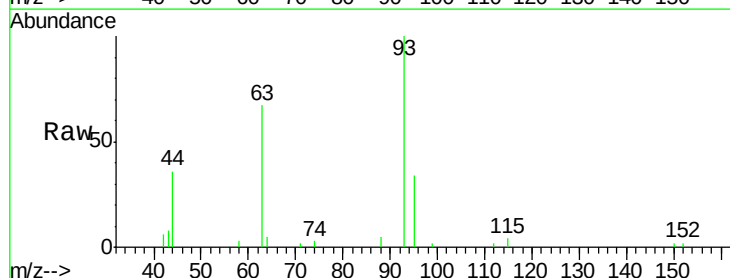
Tgt Ion: 93 Resp: 4378

Ion Ratio Lower Upper

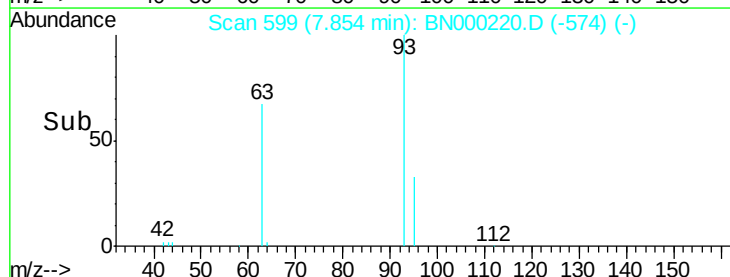
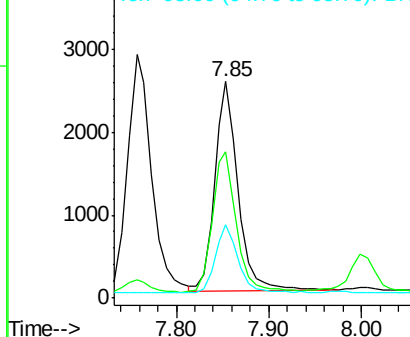
93 100

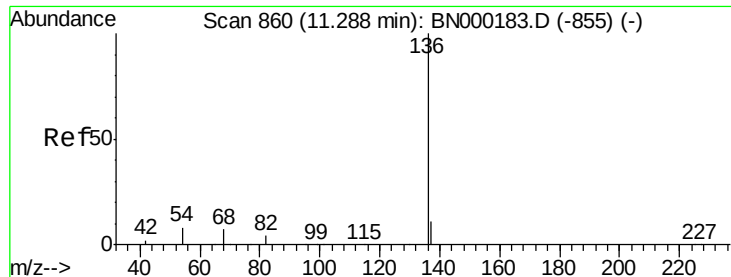
63 69.6 56.0 84.0

95 32.1 25.2 37.8



Abundance Ion 93.00 (92.70 to 93.70): BN0  
Ion 63.00 (62.70 to 63.70): BN0  
Ion 95.00 (94.70 to 95.70): BN0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.29 min Scan# 900

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion:136 Resp: 27621

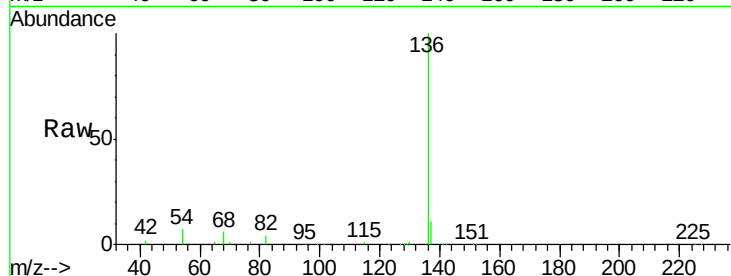
Ion Ratio Lower Upper

136 100

137 11.1 9.5 14.3

54 7.0 29.1 43.7#

68 6.4 6.2 9.2

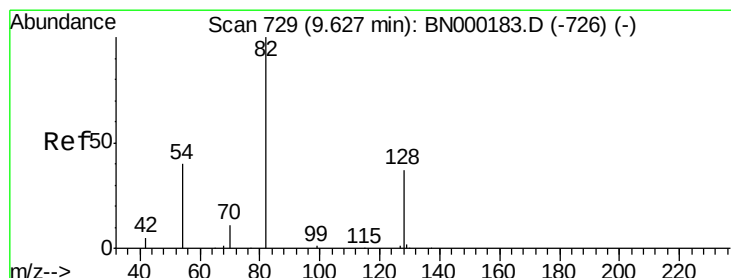
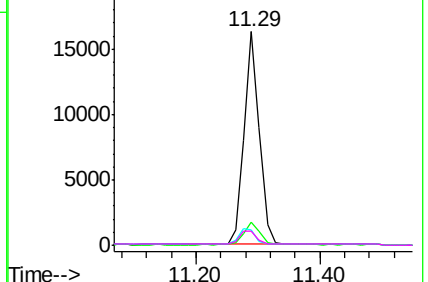
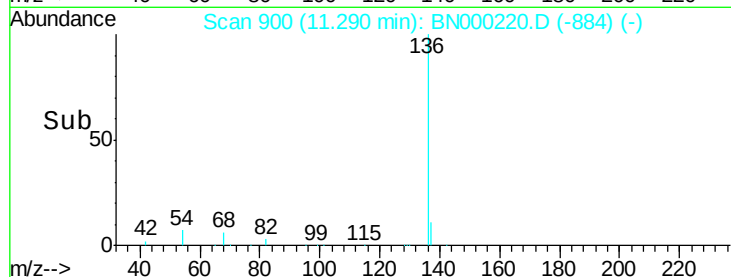


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.296 ng

RT: 9.63 min Scan# 769

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

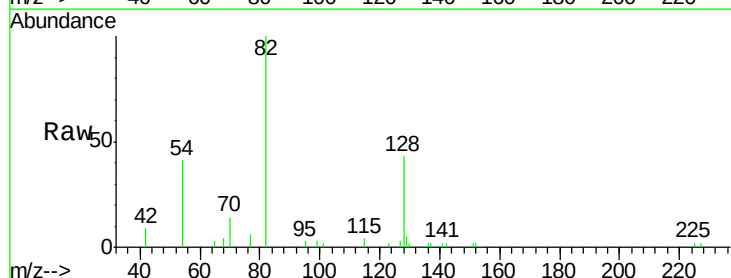
Tgt Ion: 82 Resp: 4843

Ion Ratio Lower Upper

82 100

128 42.7 150.0 225.0#

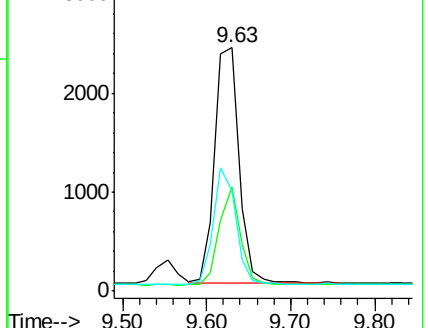
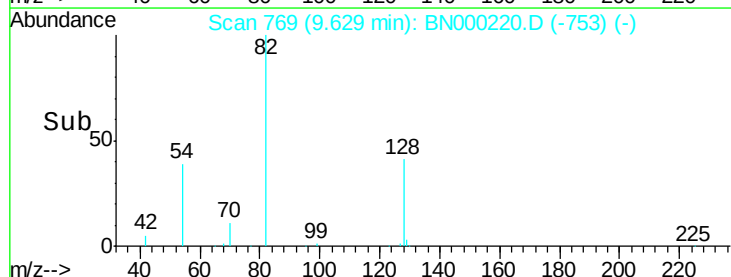
54 40.9 154.2 231.4#

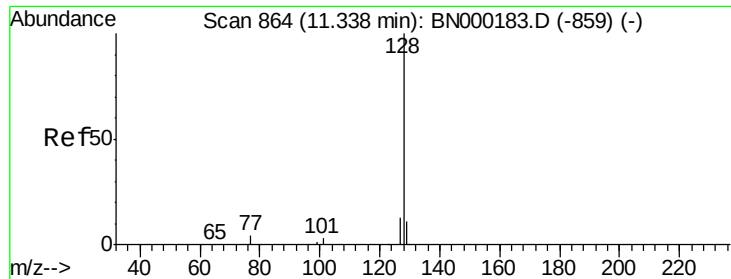


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.173 ng

RT: 11.34 min Scan# 904

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

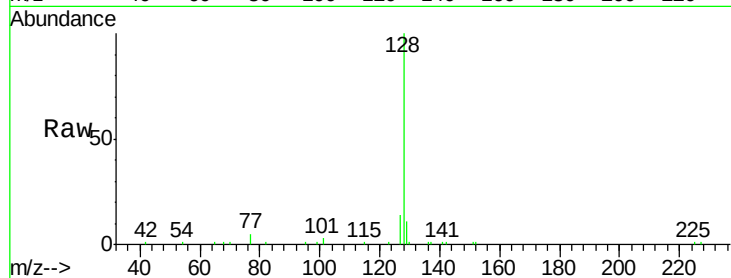
Tot Ion:128 Resp: 13954

Ion Ratio Lower Upper

128 100

129 11.4 8.0 12.0

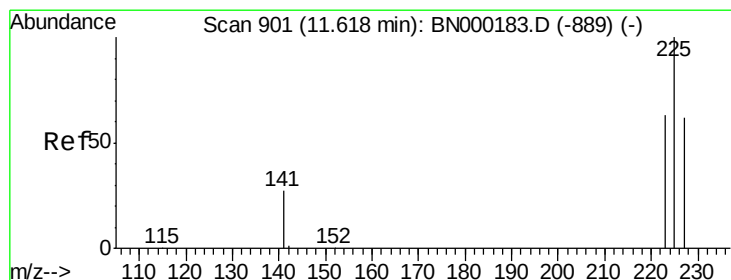
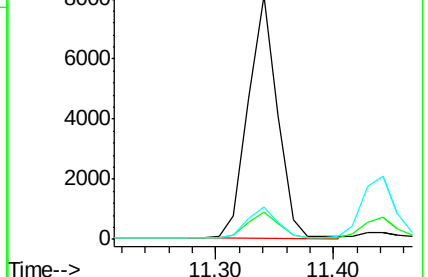
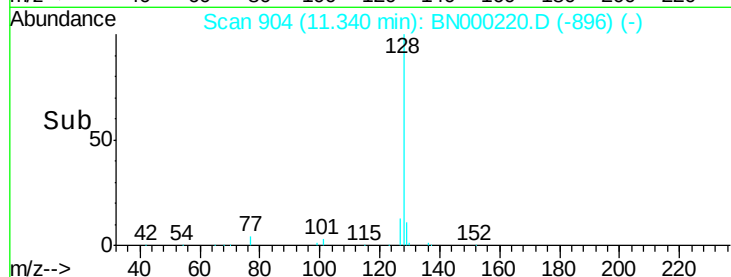
127 13.6 9.6 14.4



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



#10

Hexachlorobutadiene

Concen: 0.177 ng

RT: 11.62 min Scan# 942

Delta R.T. -0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

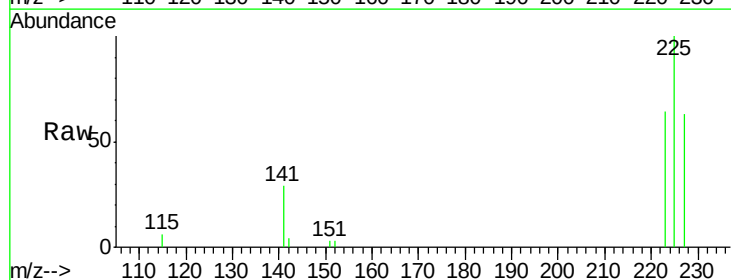
Tgt Ion:225 Resp: 2422

Ion Ratio Lower Upper

225 100

223 62.8 53.0 79.6

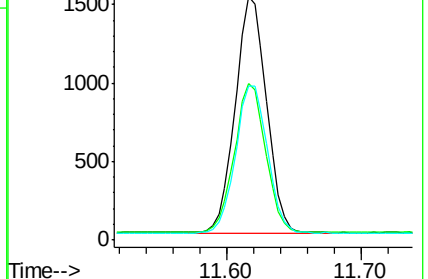
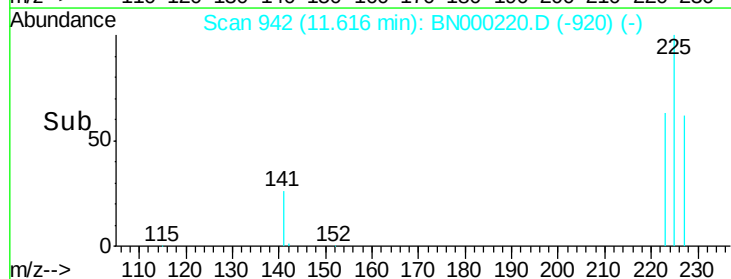
227 63.5 51.4 77.2

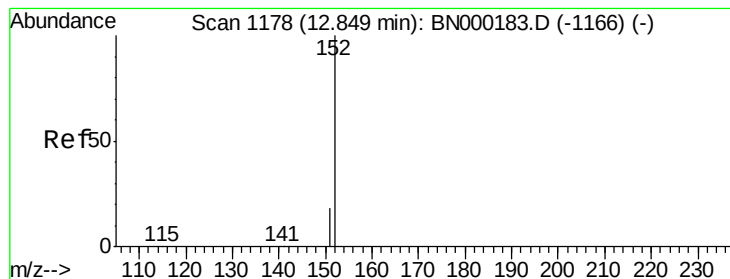


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.324 ng

RT: 12.85 min Scan# 1219

Delta R.T. -0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

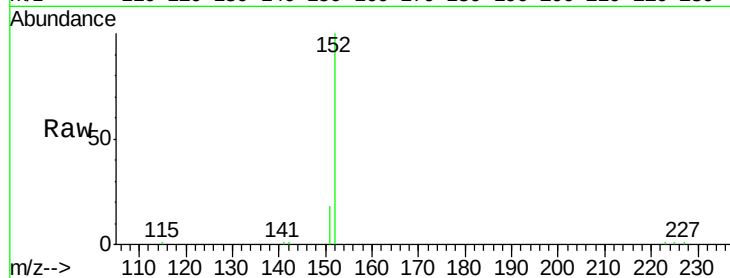
LOQ-SOIL-02-QT1-2018

Tot Ion:152 Resp: 13474

Ion Ratio Lower Upper

152 100

151 19.4 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.85

8000

6000

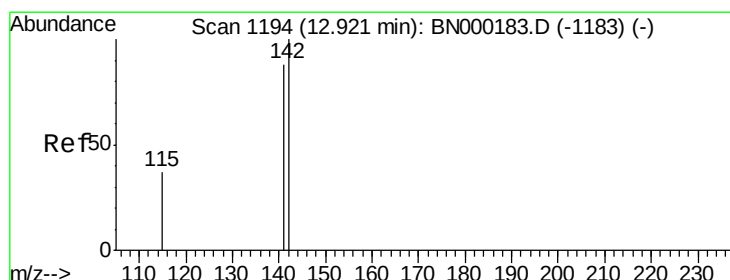
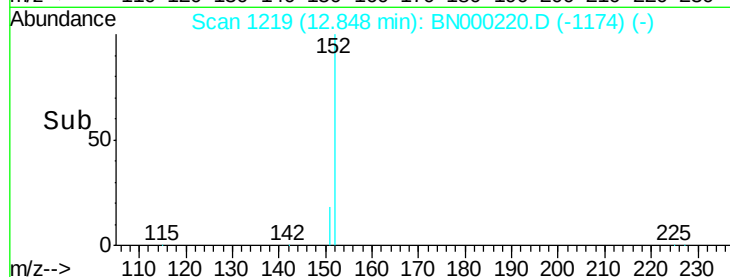
4000

2000

0

12.80 12.90 13.00

Time-->



#12

2-Methylnaphthalene

Concen: 0.169 ng

RT: 12.92 min Scan# 1235

Delta R.T. -0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

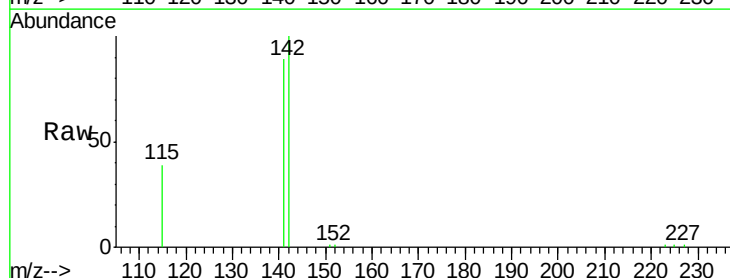
Tgt Ion:142 Resp: 8931

Ion Ratio Lower Upper

142 100

141 88.8 70.4 105.6

115 39.3 31.7 47.5



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

12.92

8000

6000

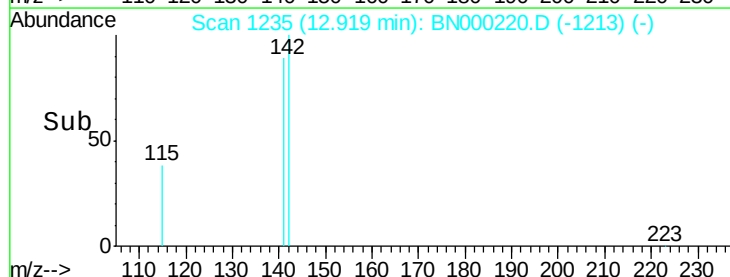
4000

2000

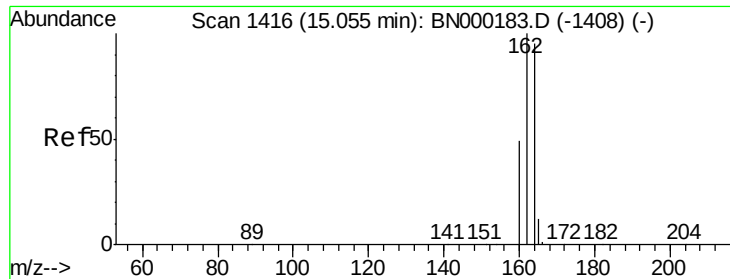
0

12.90 13.00

Time-->







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.06 min Scan# 1458

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

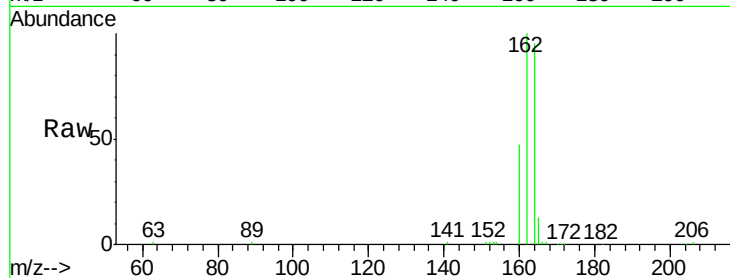
Tot Ion:164 Resp: 13590

Ion Ratio Lower Upper

164 100

162 104.9 83.1 124.7

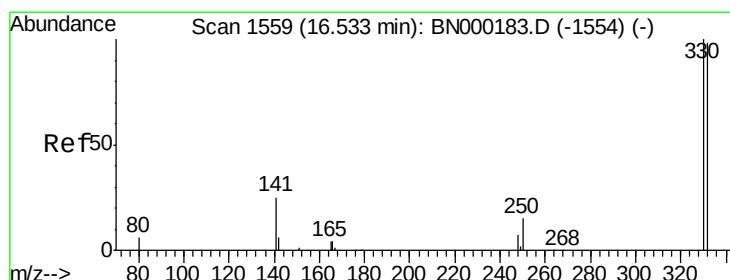
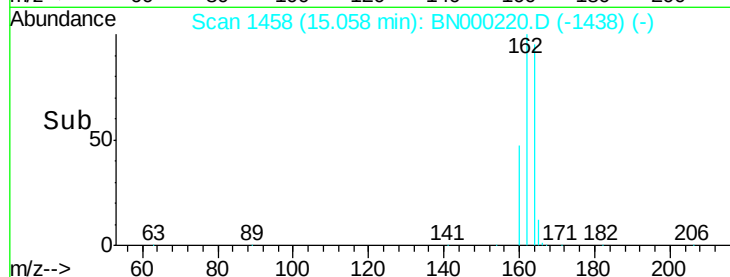
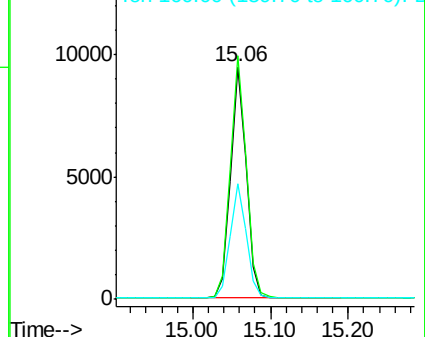
160 49.6 37.1 55.7



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



#14

2,4,6-Tribromophenol

Concen: 0.277 ng

RT: 16.53 min Scan# 1600

Delta R.T. -0.01 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

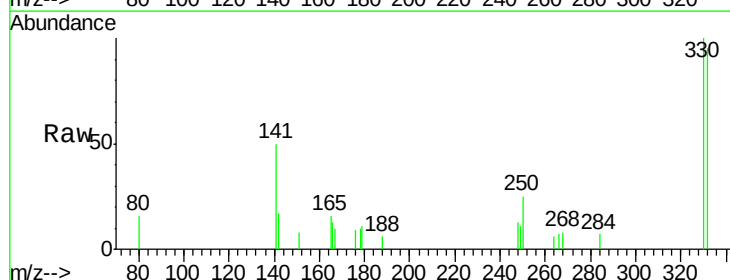
Tgt Ion:330 Resp: 1197

Ion Ratio Lower Upper

330 100

332 97.0 152.7 229.1#

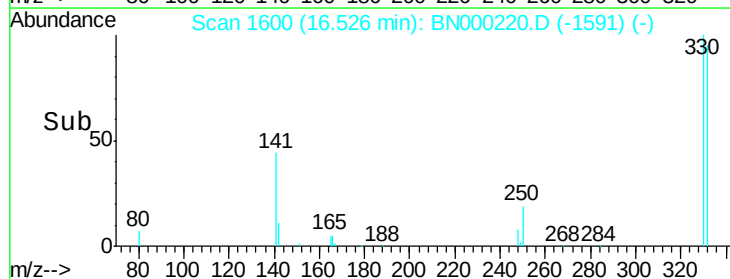
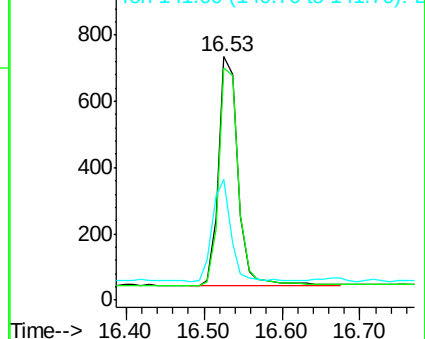
141 42.4 33.7 50.5

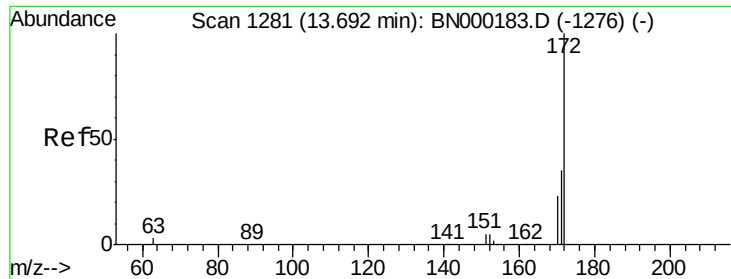


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.321 ng

RT: 13.69 min Scan# 1323

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

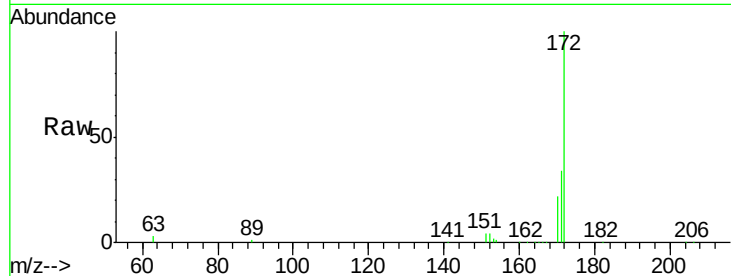
BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion:172 Resp: 20683

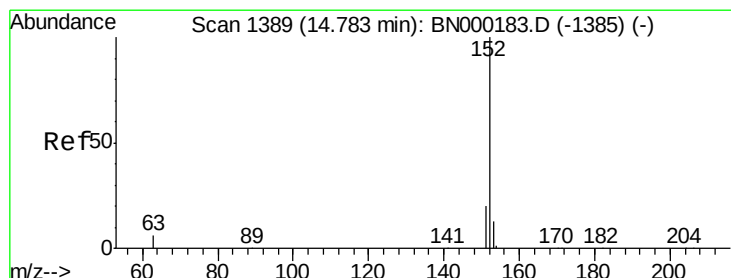
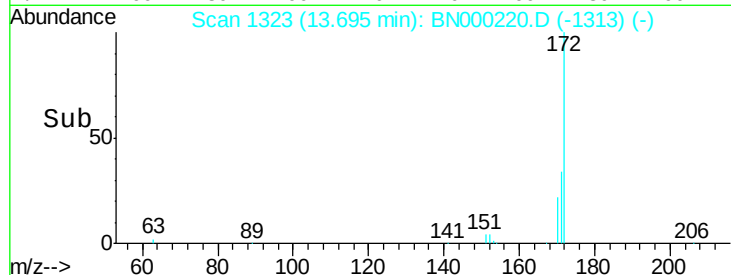
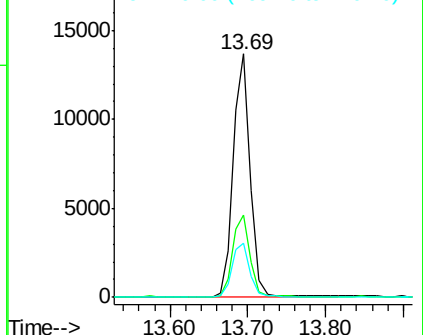
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 33.7  | 29.9  | 44.9  |
| 170 | 22.1  | 21.8  | 32.8  |



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



#16

Acenaphthylene

Concen: 0.149 ng

RT: 14.79 min Scan# 1431

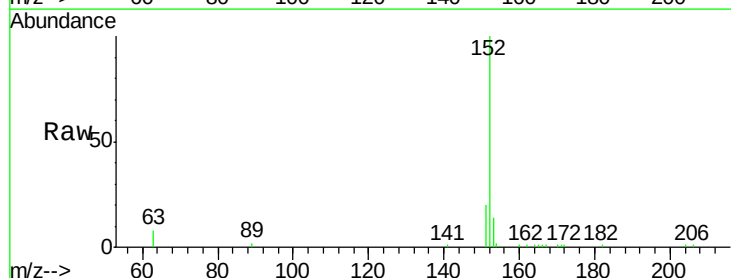
Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Tgt Ion:152 Resp: 9556

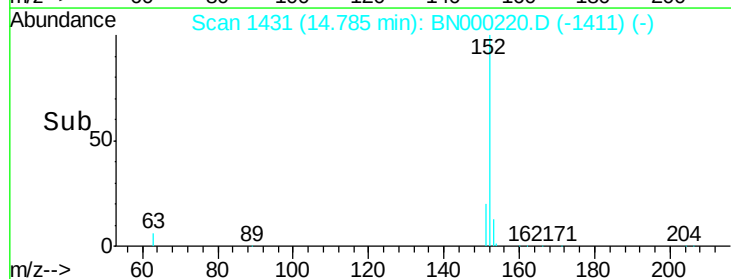
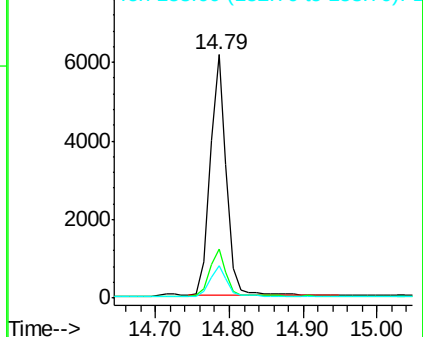
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 151 | 19.5  | 15.7  | 23.5  |
| 153 | 12.9  | 10.5  | 15.7  |

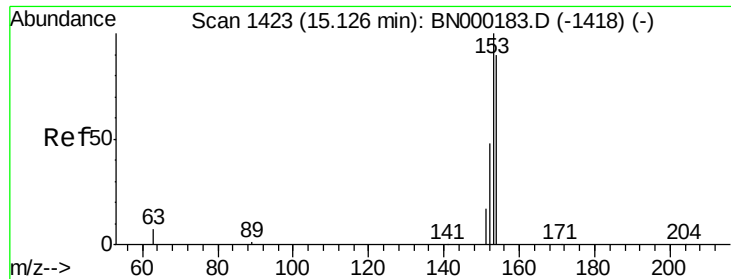


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.168 ng

RT: 15.12 min Scan# 1464

Delta R.T. -0.01 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

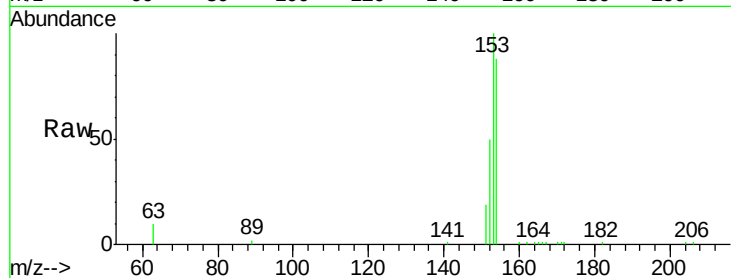
Tot Ion:154 Resp: 8501

Ion Ratio Lower Upper

154 100

153 112.7 89.2 133.8

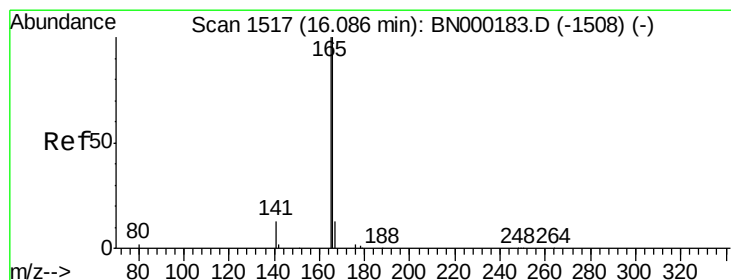
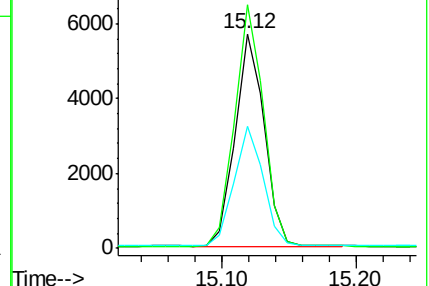
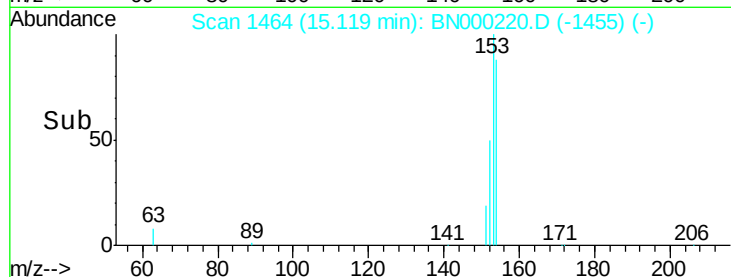
152 56.9 42.0 63.0



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



#18

Fluorene

Concen: 0.163 ng

RT: 16.09 min Scan# 1559

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

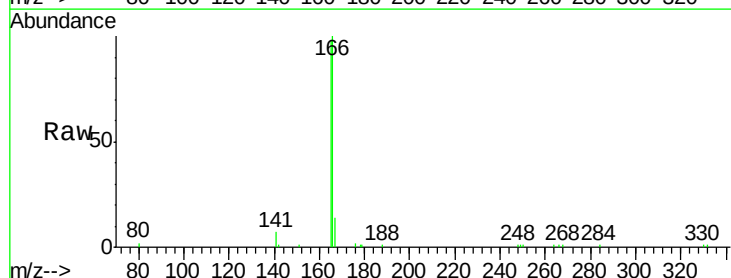
Tgt Ion:166 Resp: 10262

Ion Ratio Lower Upper

166 100

165 97.6 77.8 116.6

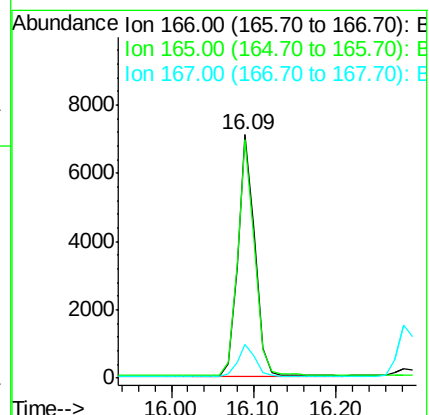
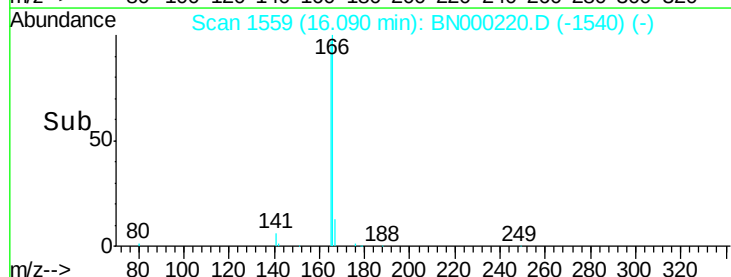
167 13.5 42.4 63.6#

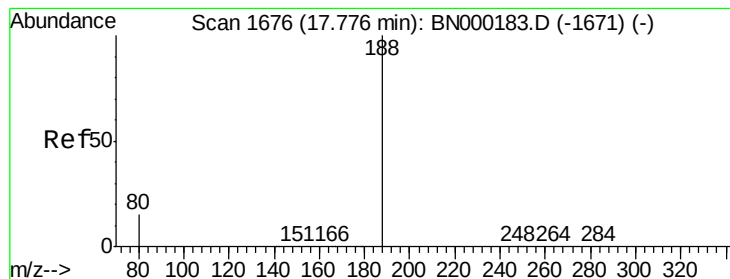


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.78 min Scan# 1718

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

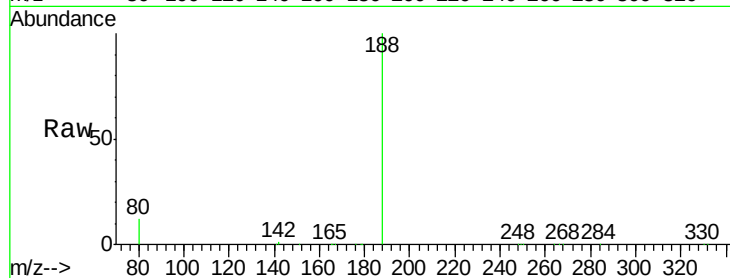
Tot Ion:188 Resp: 30545

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

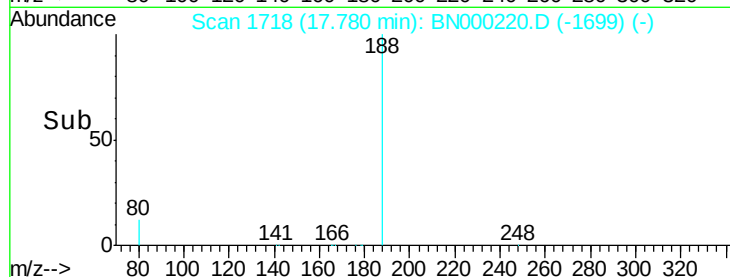
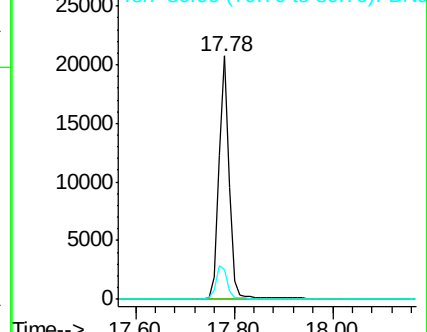
80 12.4 3.6 5.4#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#20

4-Bromophenyl-phenylether

Concen: 0.159 ng

RT: 16.96 min Scan# 1641

Delta R.T. -0.01 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

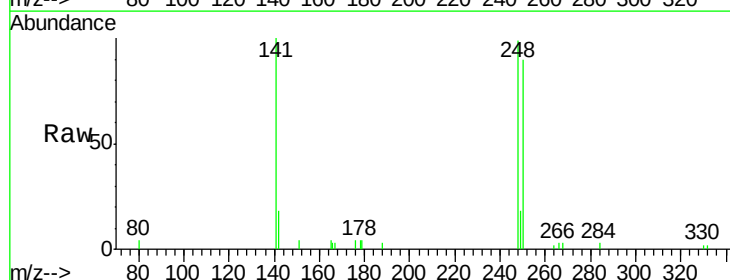
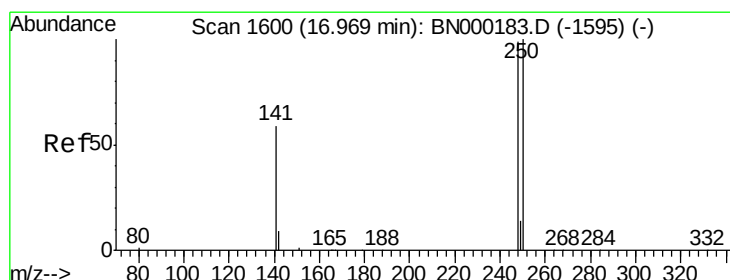
Tgt Ion:248 Resp: 2805

Ion Ratio Lower Upper

248 100

250 90.9 62.7 94.1

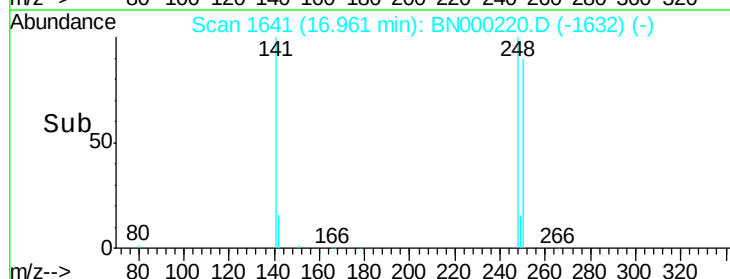
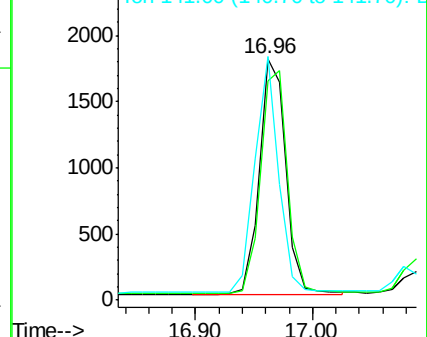
141 100.8 48.2 72.2#

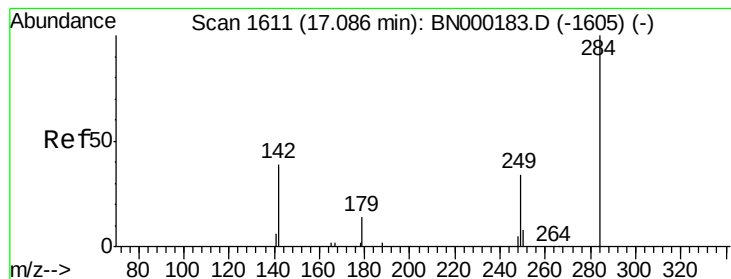


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.167 ng

RT: 17.09 min Scan# 1653

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

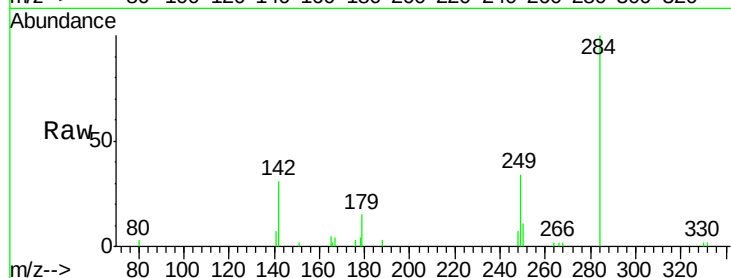
Tot Ion:284 Resp: 3937

Ion Ratio Lower Upper

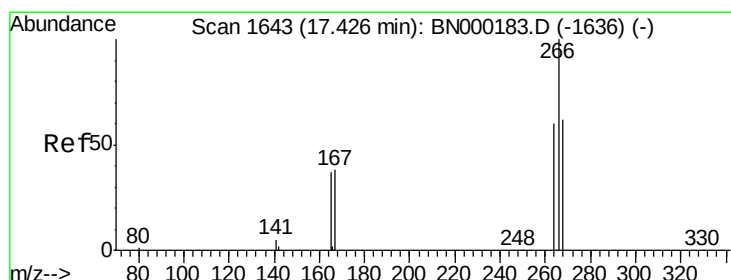
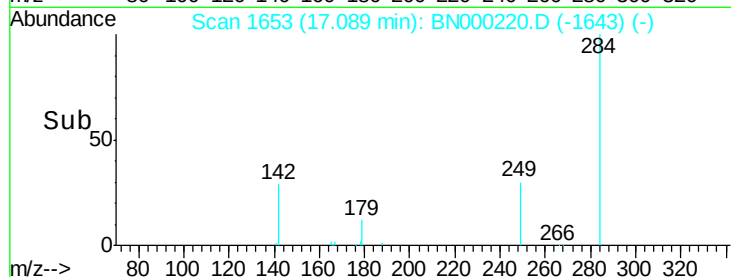
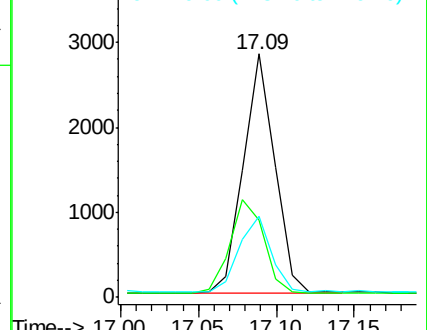
284 100

142 41.8 32.0 48.0

249 32.0 24.0 36.0



Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.187 ng

RT: 17.43 min Scan# 1685

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

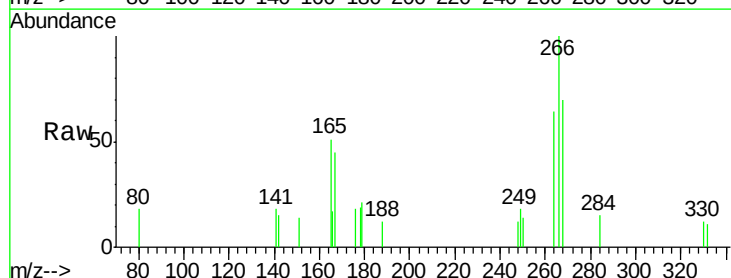
Tgt Ion:266 Resp: 679

Ion Ratio Lower Upper

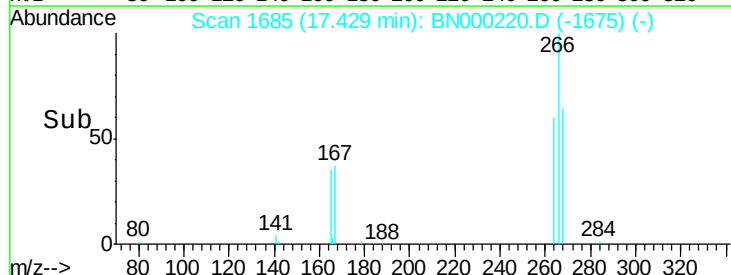
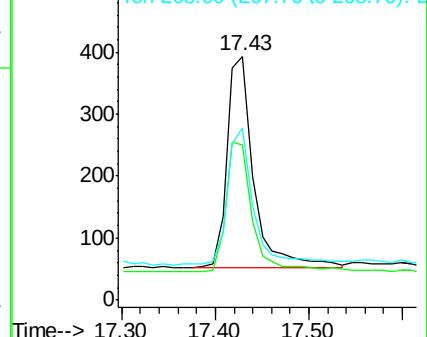
266 100

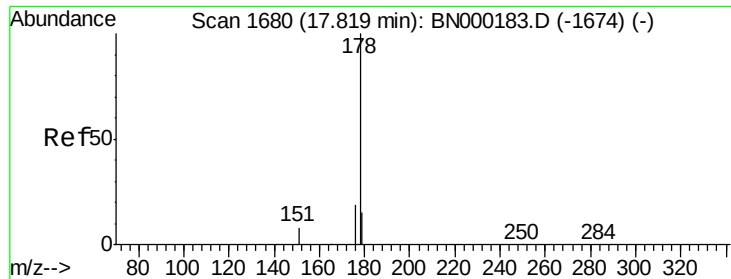
264 63.6 48.0 72.0

268 70.5 52.0 78.0



Abundance Ion 266.00 (265.70 to 266.70): E  
Ion 264.00 (263.70 to 264.70): E  
Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.163 ng

RT: 17.82 min Scan# 1722

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

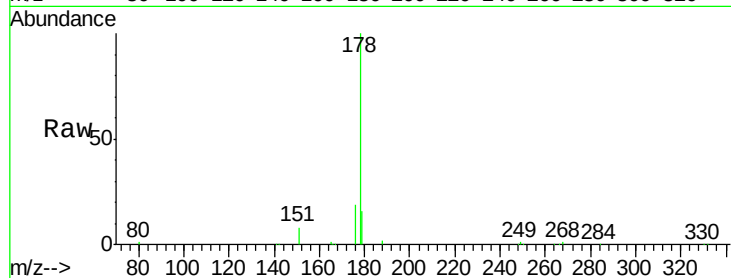
Tot Ion:178 Resp: 17560

Ion Ratio Lower Upper

178 100

176 19.3 15.1 22.7

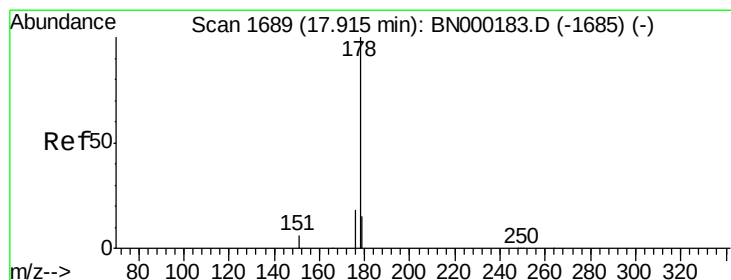
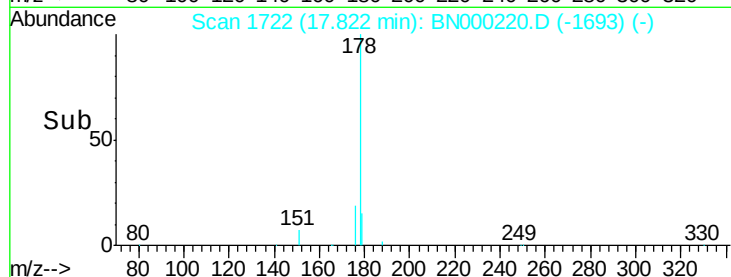
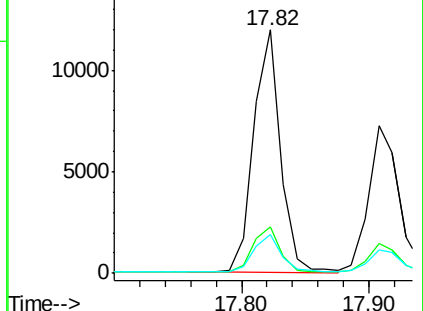
179 15.7 11.8 17.6



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



#24

Anthracene

Concen: 0.144 ng

RT: 17.91 min Scan# 1730

Delta R.T. -0.01 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

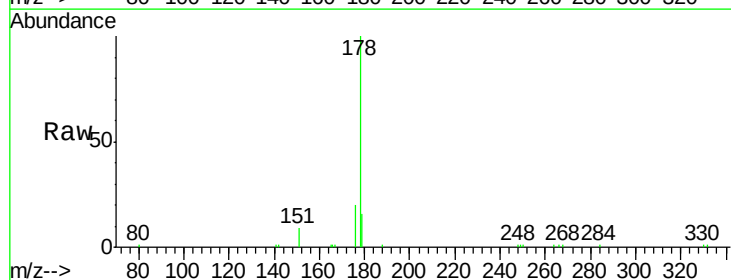
Tgt Ion:178 Resp: 11757

Ion Ratio Lower Upper

178 100

176 19.1 12.8 19.2

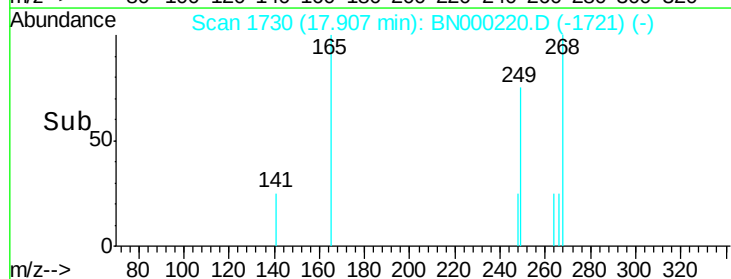
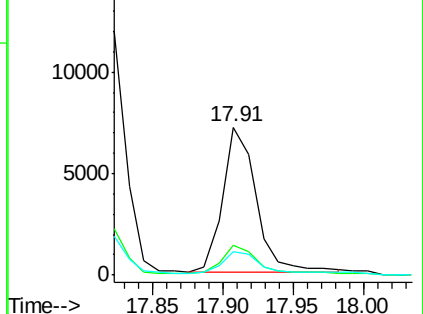
179 15.5 13.0 19.6

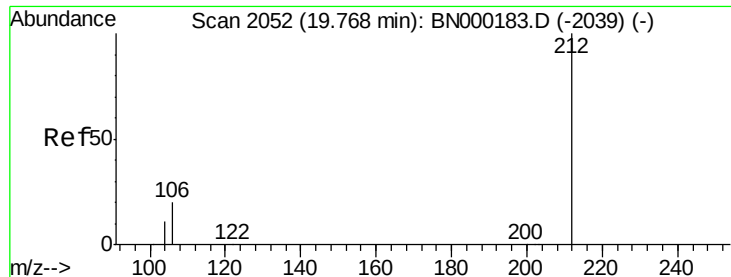


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.286 ng

RT: 19.77 min Scan# 2094

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

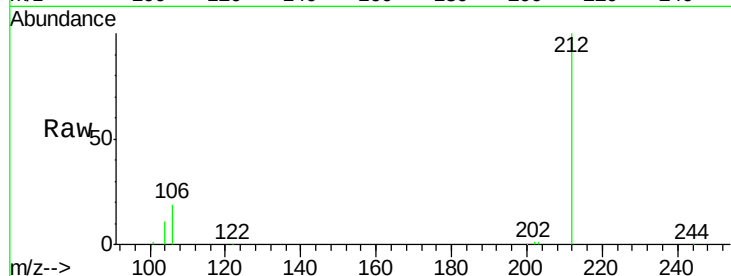
Tot Ion:212 Resp: 23326

Ion Ratio Lower Upper

212 100

106 19.1 2.8 4.2#

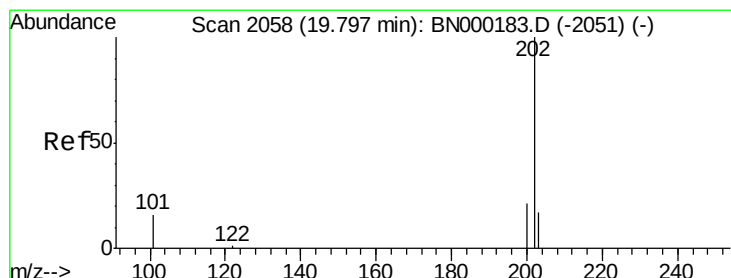
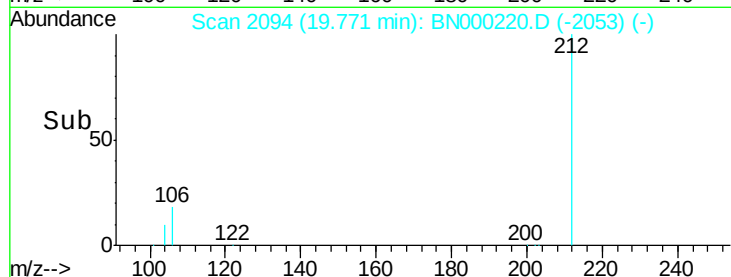
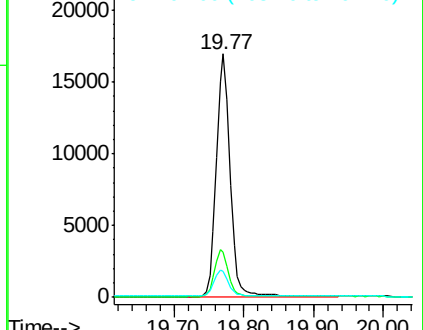
104 11.0 1.6 2.4#



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.149 ng

RT: 19.80 min Scan# 2100

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

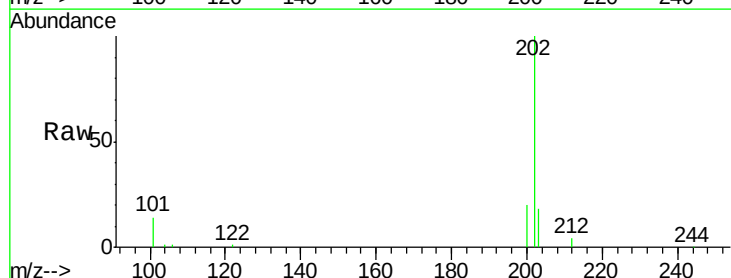
Tgt Ion:202 Resp: 16600

Ion Ratio Lower Upper

202 100

101 15.7 9.8 14.8#

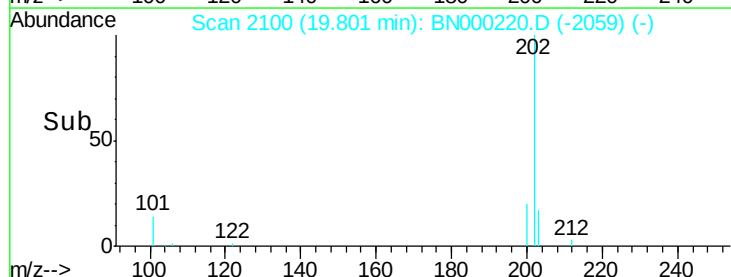
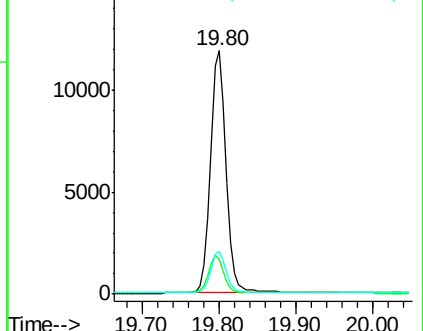
203 16.8 13.7 20.5

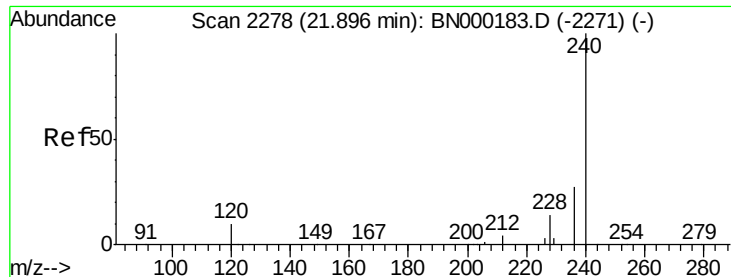


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.89 min Scan# 2319

Delta R.T. -0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

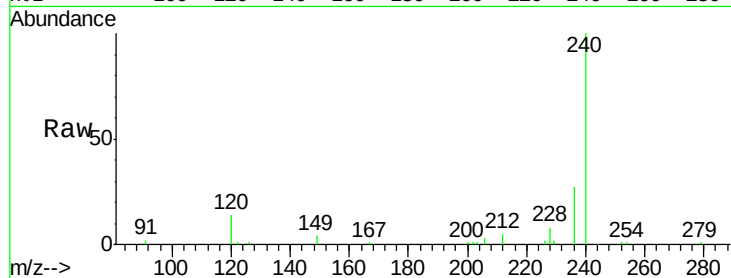
Tot Ion:240 Resp: 21696

Ion Ratio Lower Upper

240 100

120 13.6 5.5 8.3#

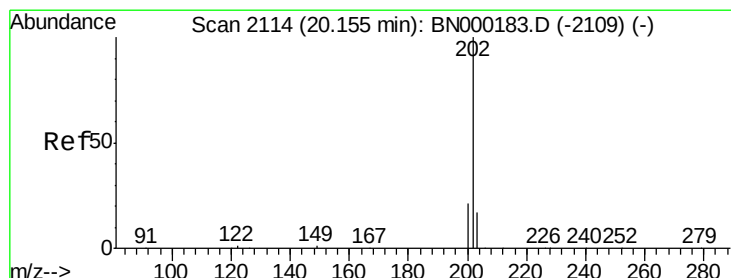
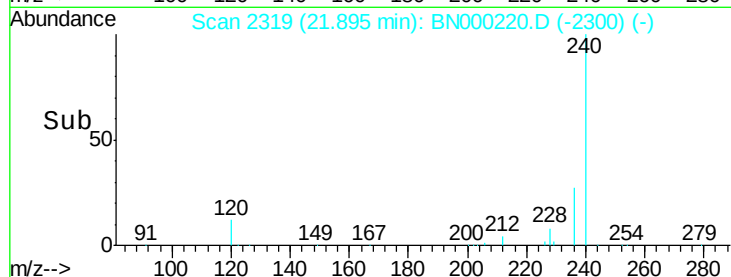
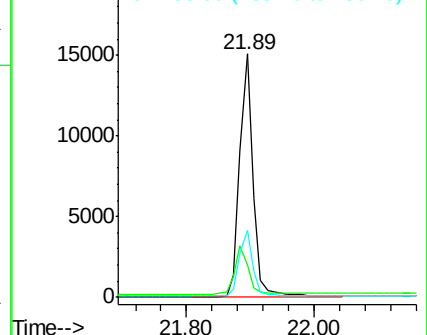
236 27.3 20.7 31.1



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



#28

Pyrene

Concen: 0.197 ng

RT: 20.15 min Scan# 2155

Delta R.T. -0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

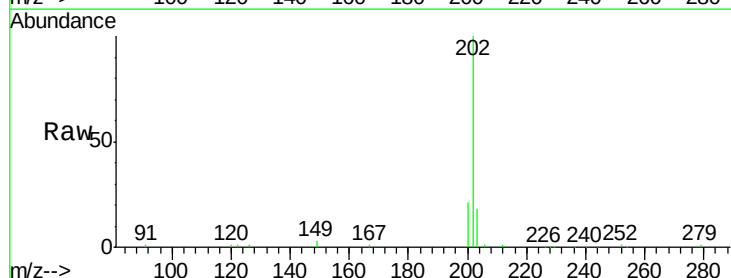
Tgt Ion:202 Resp: 16743

Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

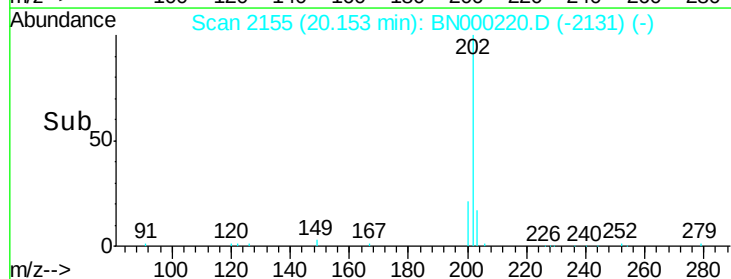
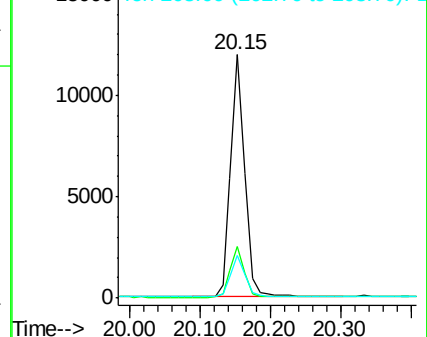
203 17.3 13.8 20.8



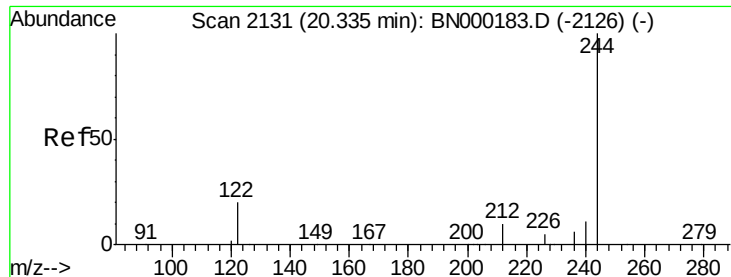
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.363 ng

RT: 20.33 min Scan# 2172

Delta R.T. -0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

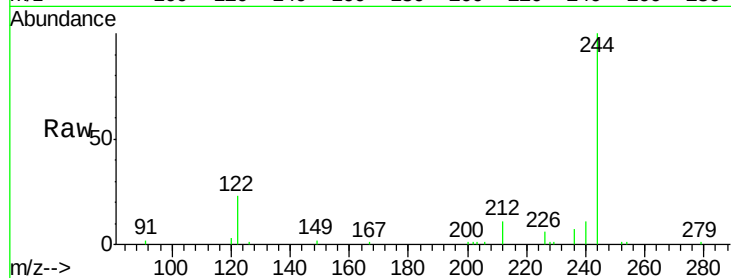
Tot Ion:244 Resp: 13830

Ion Ratio Lower Upper

244 100

212 10.8 25.4 38.0#

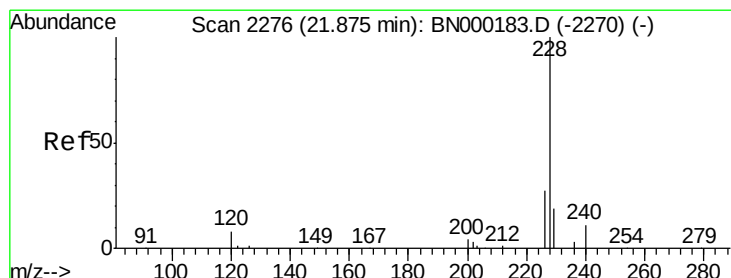
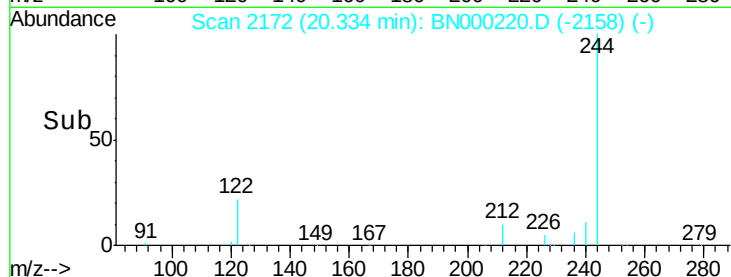
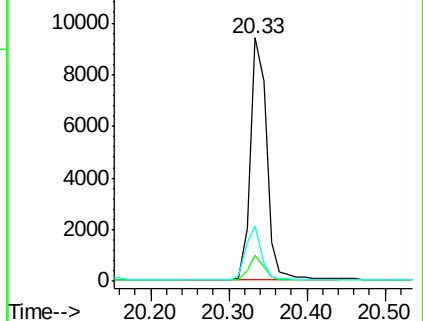
122 22.8 8.1 12.1#



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



#30

Benzo(a)anthracene

Concen: 0.162 ng

RT: 21.87 min Scan# 2317

Delta R.T. -0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

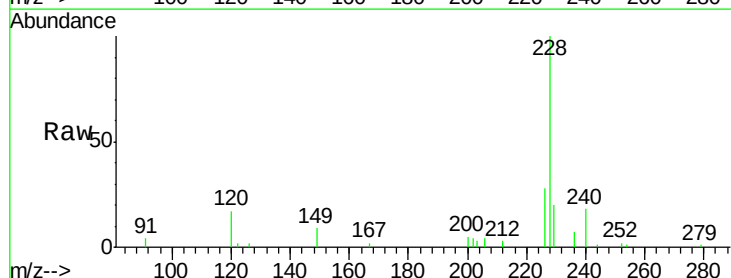
Tgt Ion:228 Resp: 11039

Ion Ratio Lower Upper

228 100

226 28.1 24.0 36.0

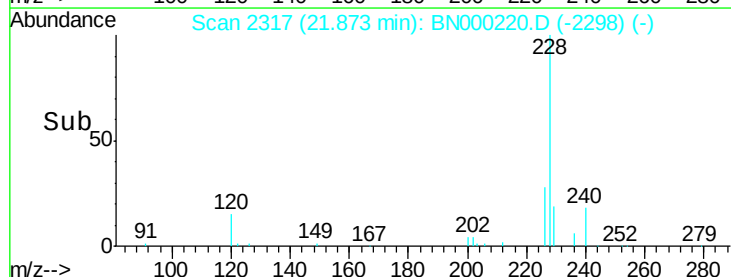
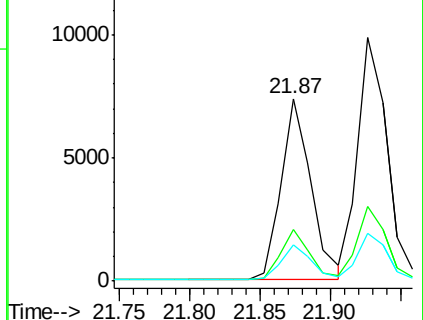
229 20.0 16.0 24.0

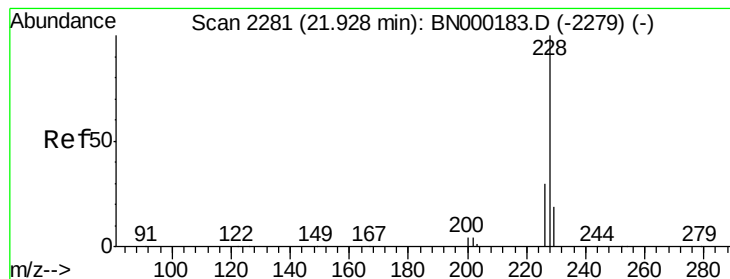


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.179 ng

RT: 21.93 min Scan# 2322

Delta R.T. -0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

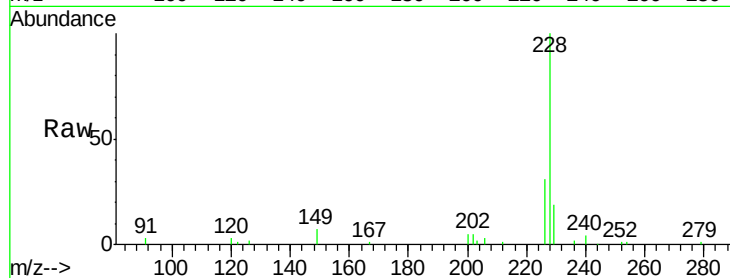
Tot Ion:228 Resp: 14274

Ion Ratio Lower Upper

228 100

226 30.6 24.0 36.0

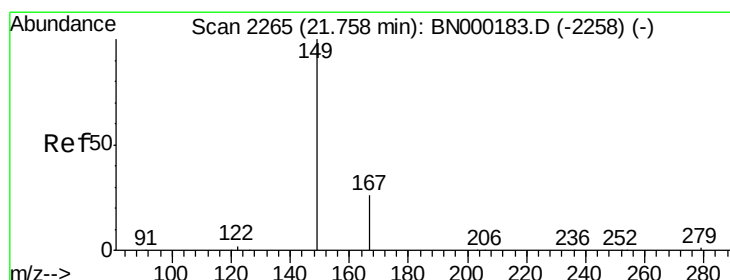
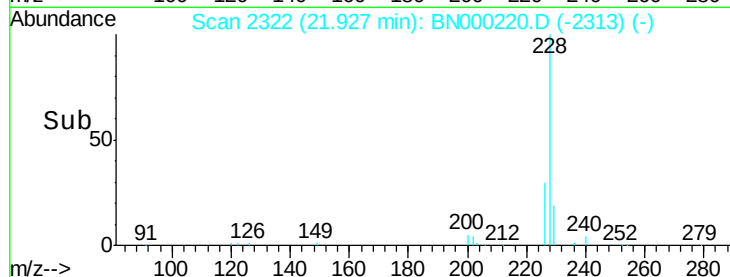
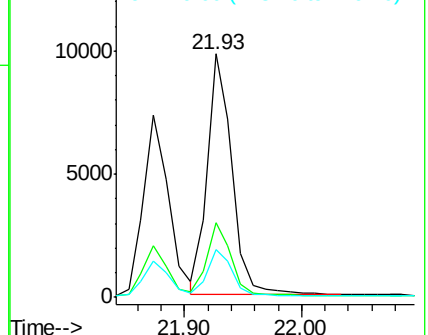
229 19.5 16.0 24.0



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.175 ng

RT: 21.76 min Scan# 2306

Delta R.T. -0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

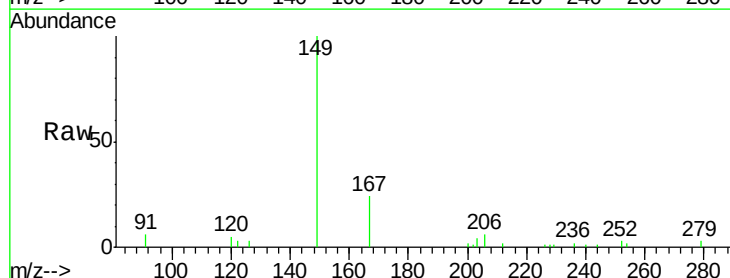
Tgt Ion:149 Resp: 4453

Ion Ratio Lower Upper

149 100

167 26.0 20.0 30.0

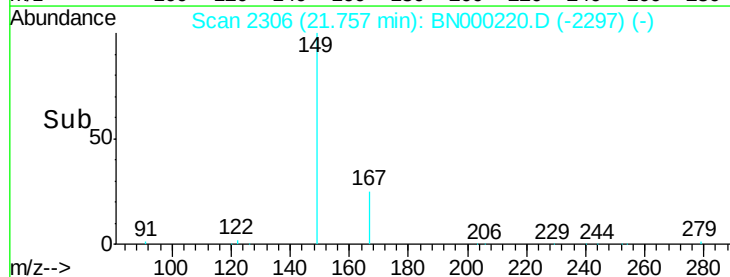
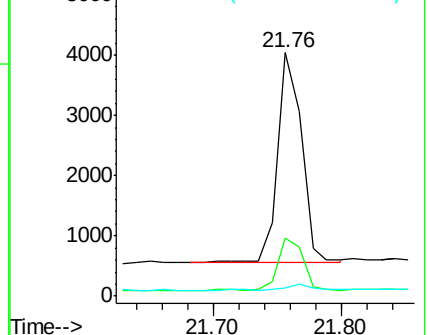
279 3.8 1.6 2.4#

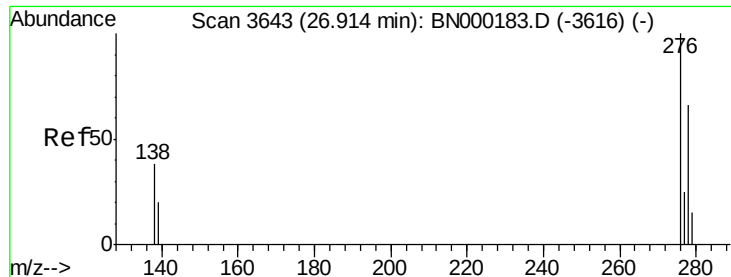


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

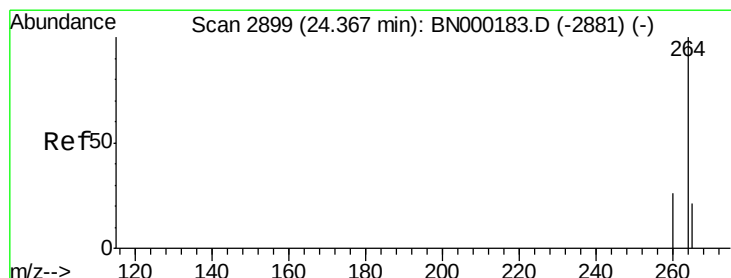
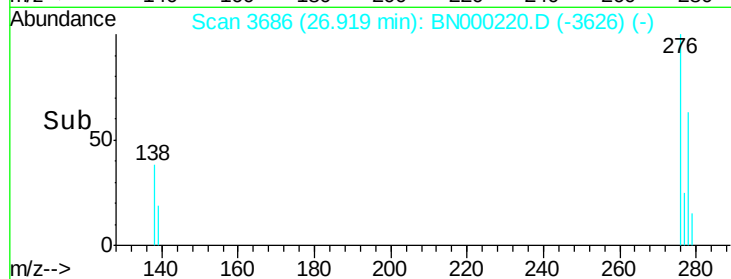
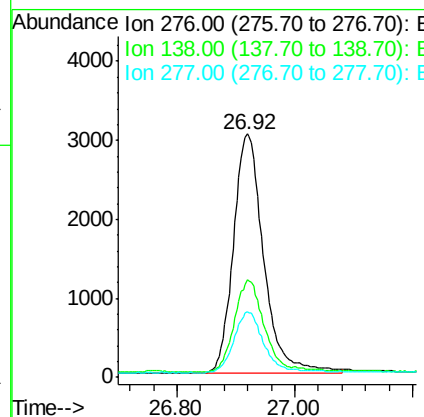
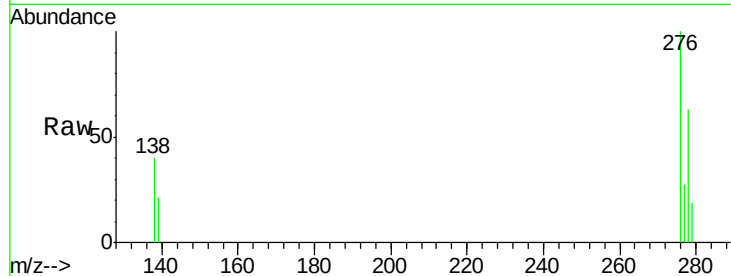




#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.146 ng  
RT: 26.92 min Scan# 3686  
Delta R.T. 0.01 min  
Lab File: BN000220.D  
Acq: 01 Mar 2018 16:46

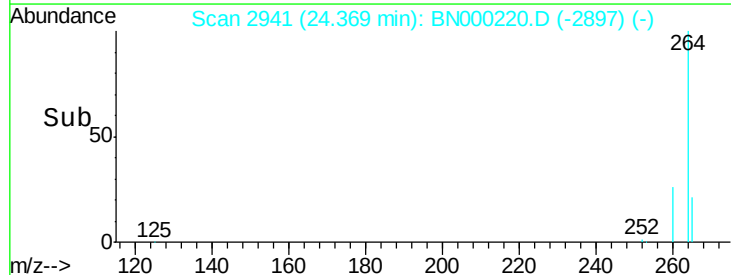
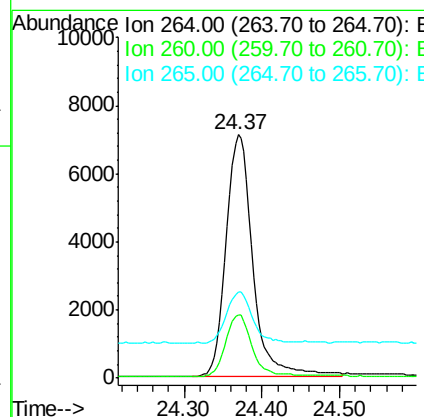
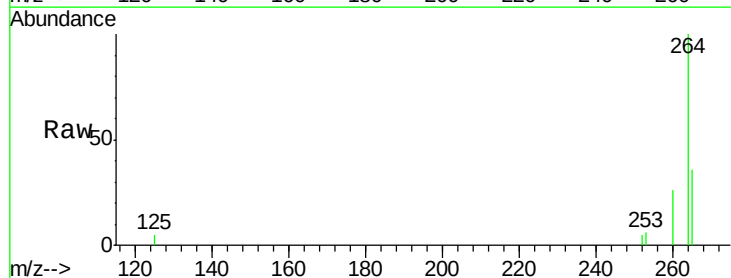
Instrument :  
BNA\_N  
ClientSampleId :  
LOQ-SOIL-02-QT1-2018

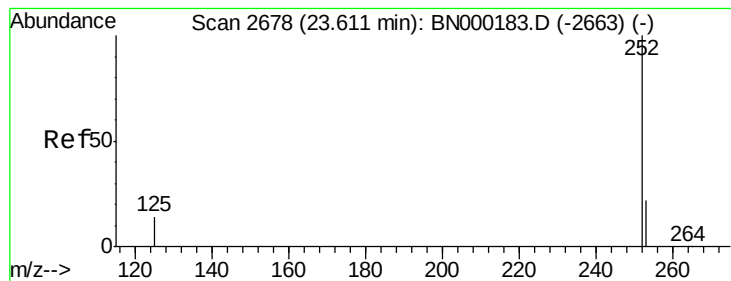
Tot Ion:276 Resp: 10866  
Ion Ratio Lower Upper  
276 100  
138 38.5 22.5 33.7#  
277 25.3 19.9 29.9



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 24.37 min Scan# 2941  
Delta R.T. 0.00 min  
Lab File: BN000220.D  
Acq: 01 Mar 2018 16:46

Tgt Ion:264 Resp: 16851  
Ion Ratio Lower Upper  
264 100  
260 26.0 20.5 30.7  
265 35.5 22.8 34.2#





#35

Benzo(b)fluoranthene

Concen: 0.170 ng

RT: 23.61 min Scan# 2720

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

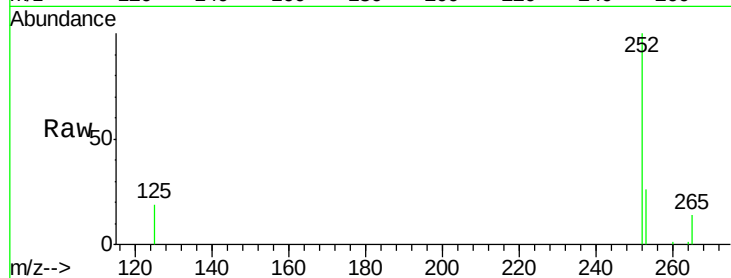
Tot Ion:252 Resp: 13052

Ion Ratio Lower Upper

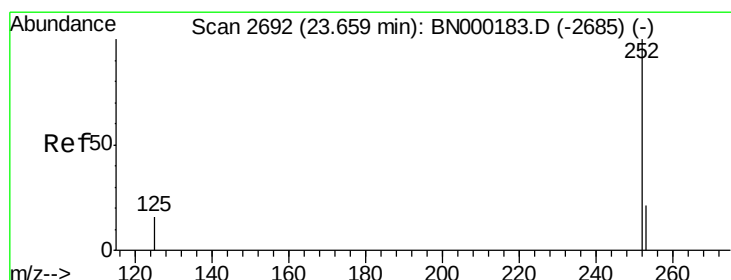
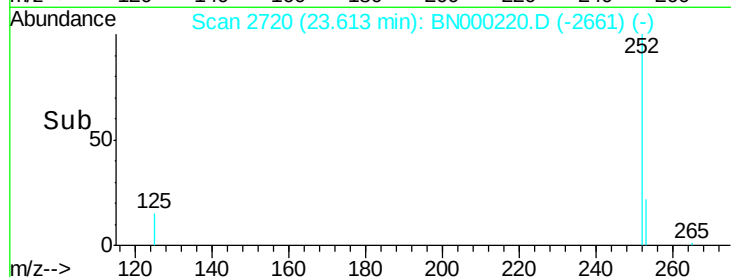
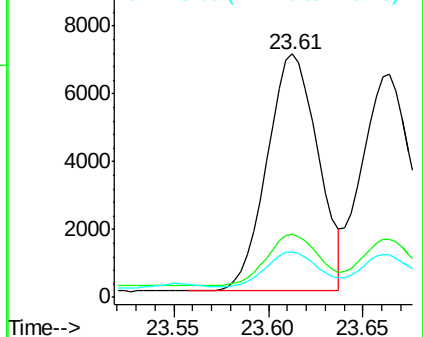
252 100

253 26.1 20.0 30.0

125 18.7 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



#36

Benzo(k)fluoranthene

Concen: 0.168 ng

RT: 23.66 min Scan# 2735

Delta R.T. 0.01 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

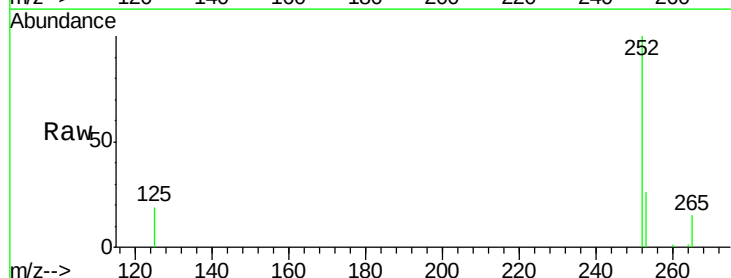
Tgt Ion:252 Resp: 12604

Ion Ratio Lower Upper

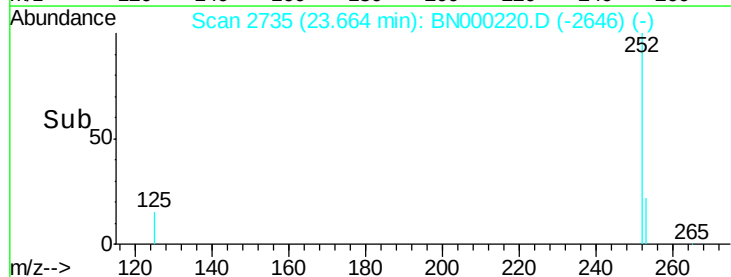
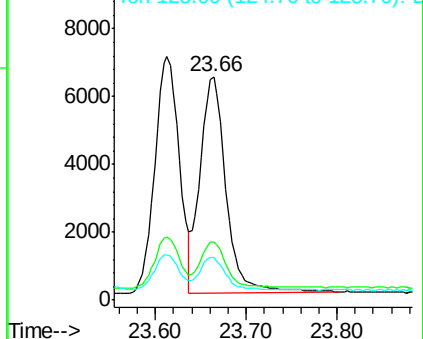
252 100

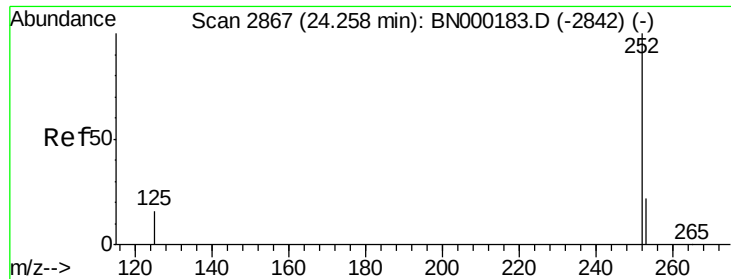
253 26.0 16.0 24.0#

125 19.3 8.0 12.0#



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





#37

Benzo(a)pyrene

Concen: 0.154 ng

RT: 24.26 min Scan# 2909

Delta R.T. 0.00 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

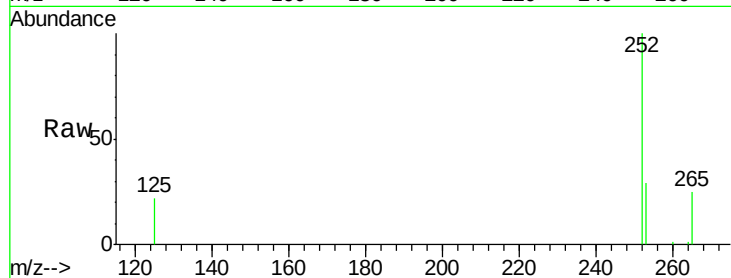
Tot Ion:252 Resp: 9638

Ion Ratio Lower Upper

252 100

253 29.0 16.0 24.0#

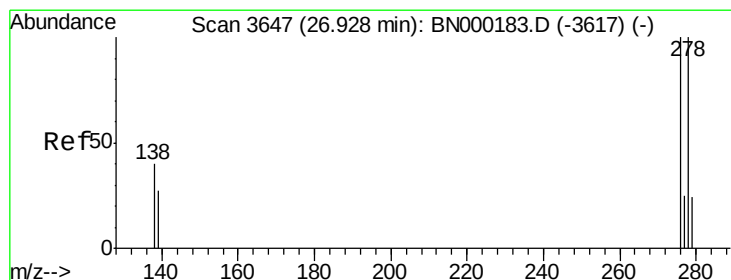
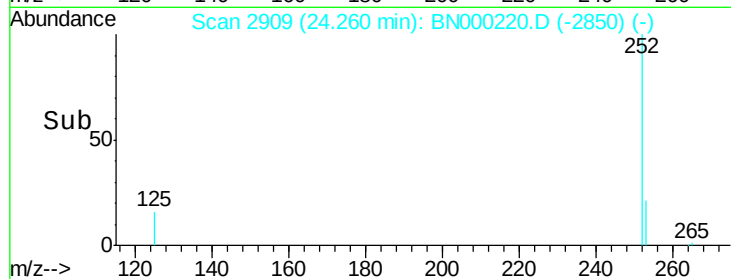
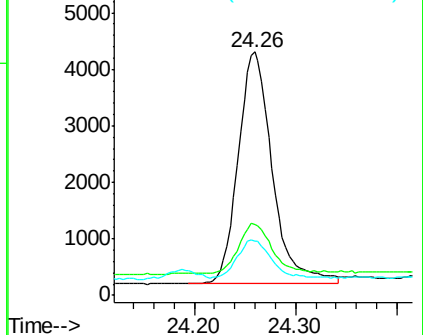
125 22.4 12.0 18.0#



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



#38

Dibenzo(a,h)anthracene

Concen: 0.152 ng

RT: 26.93 min Scan# 3690

Delta R.T. 0.01 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

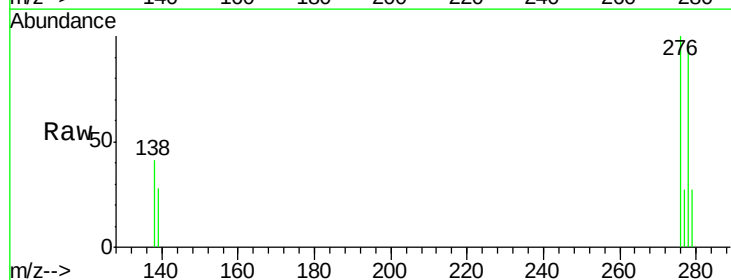
Tgt Ion:278 Resp: 8470

Ion Ratio Lower Upper

278 100

139 29.2 16.0 24.0#

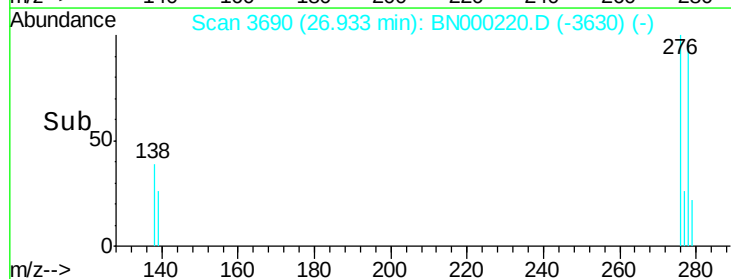
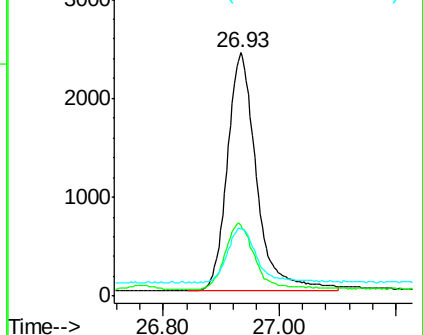
279 27.5 20.0 30.0

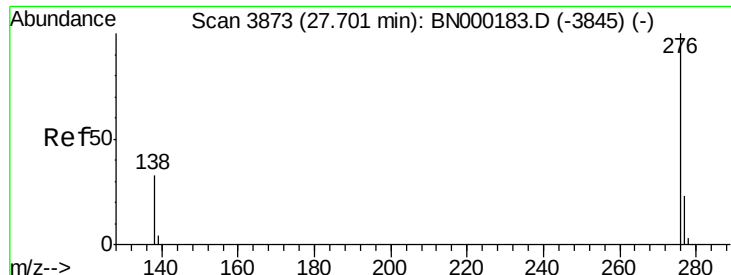


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Benzo(a,h,i)perylene

Concen: 0.161 ng

RT: 27.71 min Scan# 3916

Delta R.T. 0.01 min

Lab File: BN000220.D

Acq: 01 Mar 2018 16:46

Instrument :

BNA\_N

ClientSampleId :

LOQ-SOIL-02-QT1-2018

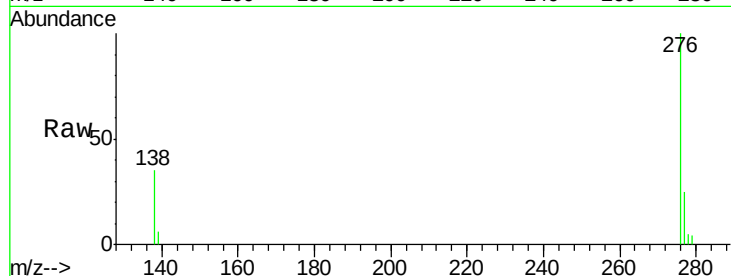
Tot Ion:276 Resp: 10600

Ion Ratio Lower Upper

276 100

277 24.7 16.0 24.0#

138 34.6 20.0 30.0#



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

