

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE061019\  
 Data File : BE099895.D  
 Acq On : 10 Jun 2019 18:08  
 Operator : JU/SJ  
 Sample : K2241-01  
 Misc : LOD-SOIL-0.1PPM  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT2-2019

Quant Time: Jun 11 07:11:36 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE061019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 10 14:57:20 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.79  | 152  | 605      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.61 | 136  | 2131     | 0.40 | ng    | 0.01     |
| 13) Acenaphthene-d10      | 14.49 | 164  | 1798     | 0.40 | ng    | 0.01     |
| 19) Phenanthrene-d10      | 17.23 | 188  | 6040     | 0.40 | ng    | 0.01     |
| 27) Chrysene-d12          | 21.40 | 240  | 7962     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.94 | 264  | 9277     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.36  | 112 | 1407  | 0.86 | ng | 0.00 |
| 5) Phenol-d6                | 6.98  | 99  | 1727  | 0.82 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.99  | 82  | 1217  | 0.60 | ng | 0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152 | 1438  | 0.39 | ng | 0.01 |
| 14) 2,4,6-Tribromophenol    | 15.98 | 330 | 929   | 0.70 | ng | 0.01 |
| 15) 2-Fluorobiphenyl        | 13.12 | 172 | 4594  | 0.67 | ng | 0.01 |
| 25) Fluoranthene-d10        | 19.25 | 212 | 32213 | 0.37 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.85 | 244 | 12822 | 0.89 | ng | 0.00 |

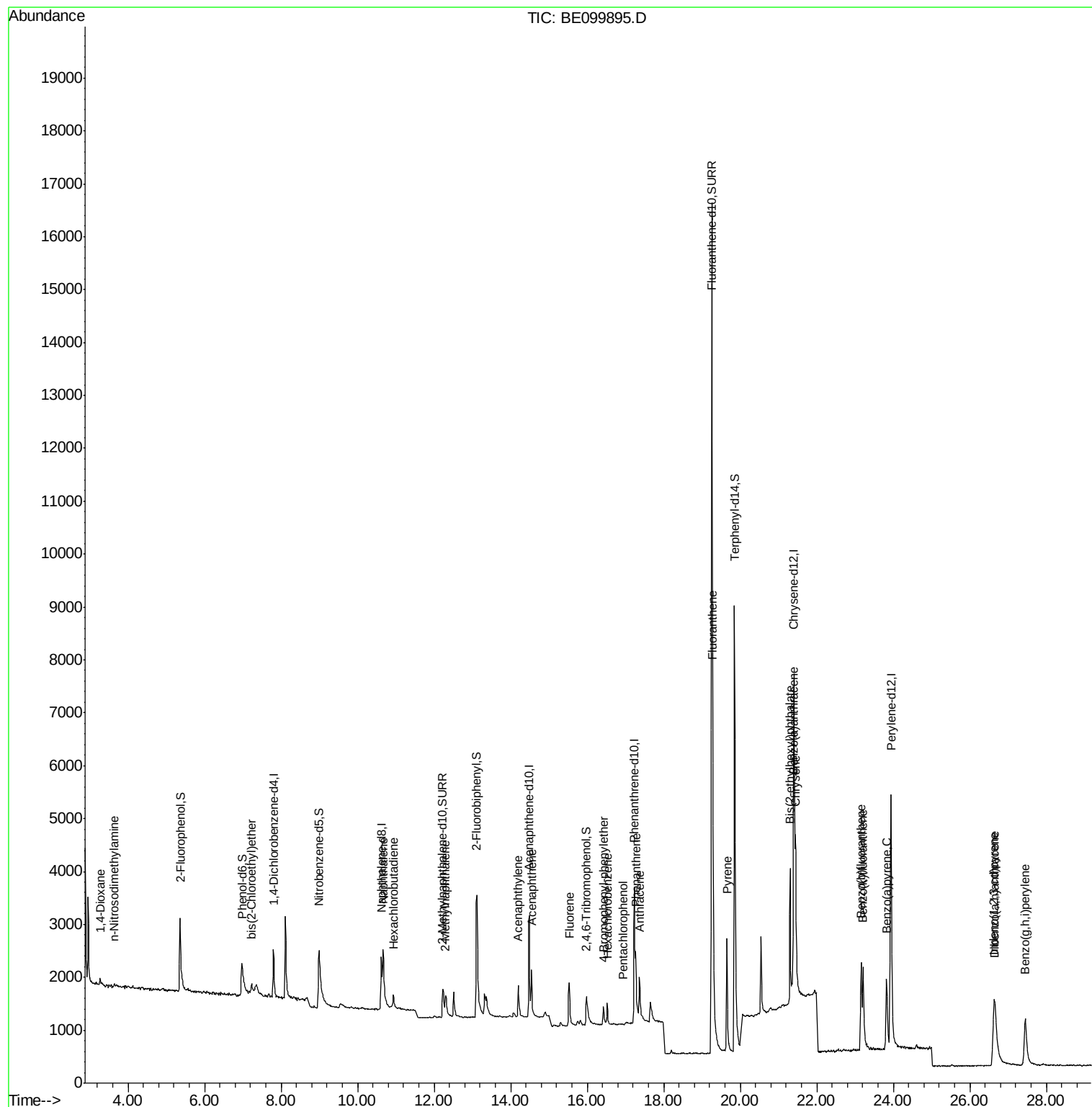
|                                |       |     |      |        |    |       |
|--------------------------------|-------|-----|------|--------|----|-------|
| Target Compounds               |       |     |      | Qvalue |    |       |
| 2) 1,4-Dioxane                 | 3.27  | 88  | 111  | 0.124  | ng | # 77  |
| 3) n-Nitrosodimethylamine      | 3.62  | 42  | 35   | 0.068  | ng | # 100 |
| 6) bis(2-Chloroethyl)ether     | 7.23  | 93  | 169  | 0.098  | ng | 94    |
| 9) Naphthalene                 | 10.67 | 128 | 2811 | 0.122  | ng | # 91  |
| 10) Hexachlorobutadiene        | 10.93 | 225 | 202  | 0.115  | ng | 95    |
| 12) 2-Methylnaphthalene        | 12.30 | 142 | 435  | 0.116  | ng | # 93  |
| 16) Acenaphthylene             | 14.20 | 152 | 974  | 0.109  | ng | 99    |
| 17) Acenaphthene               | 14.54 | 154 | 523  | 0.107  | ng | 97    |
| 18) Fluorene                   | 15.53 | 166 | 850  | 0.116  | ng | 96    |
| 20) 4-Bromophenyl-phenylether  | 16.42 | 248 | 363  | 0.106  | ng | # 90  |
| 21) Hexachlorobenzene          | 16.52 | 284 | 408  | 0.117  | ng | 98    |
| 22) Pentachlorophenol          | 16.95 | 266 | 8    | 0.007  | ng | 85    |
| 23) Phenanthrene               | 17.27 | 178 | 1574 | 0.107  | ng | 98    |
| 24) Anthracene                 | 17.36 | 178 | 1271 | 0.095  | ng | 99    |
| 26) Fluoranthene               | 19.28 | 202 | 2739 | 0.110  | ng | 100   |
| 28) Pyrene                     | 19.65 | 202 | 2843 | 0.136  | ng | 99    |
| 30) Benzo(a)anthracene         | 21.39 | 228 | 2506 | 0.105  | ng | 96    |
| 31) Chrysene                   | 21.45 | 228 | 3291 | 0.134  | ng | 98    |
| 32) Bis(2-ethylhexyl)phthalate | 21.31 | 149 | 3832 | 0.112  | ng | 99    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.63 | 276 | 3516 | 0.121  | ng | # 92  |
| 35) Benzo(b)fluoranthene       | 23.16 | 252 | 2776 | 0.107  | ng | # 87  |
| 36) Benzo(k)fluoranthene       | 23.21 | 252 | 3049 | 0.112  | ng | # 89  |
| 37) Benzo(a)pyrene             | 23.82 | 252 | 3111 | 0.121  | ng | # 81  |
| 38) Dibenzo(a,h)anthracene     | 26.66 | 278 | 2759 | 0.107  | ng | # 81  |
| 39) Benzo(g,h,i)perylene       | 27.45 | 276 | 3106 | 0.117  | ng | # 90  |

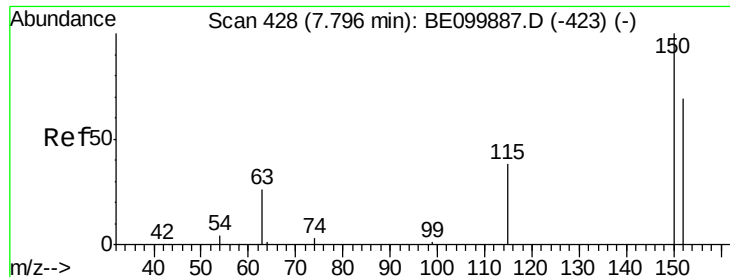
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 11 07:11:36 2019  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 10 14:57:20 2019  
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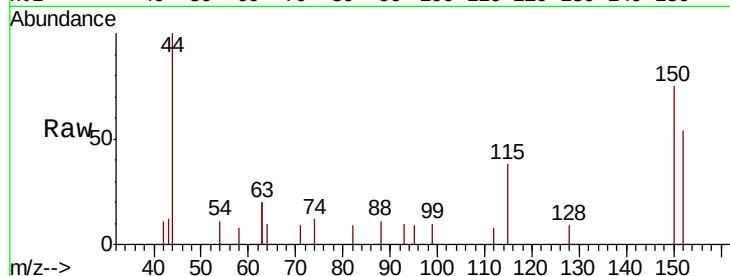


#1

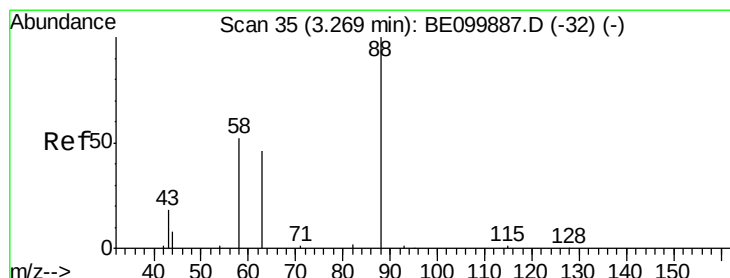
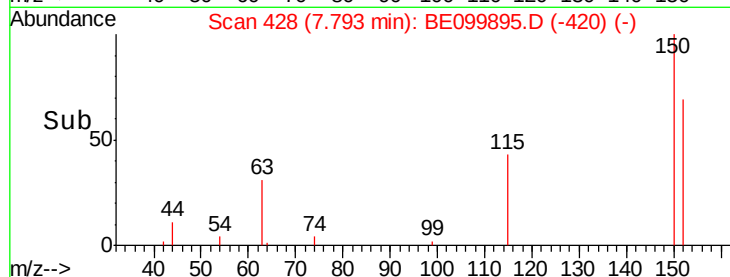
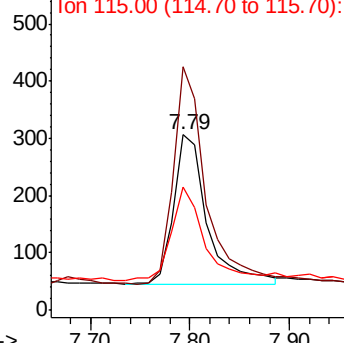
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.79 min Scan# 428  
Delta R.T. -0.00 min  
Lab File: BE099895.D  
Acq: 10 Jun 2019 18:08

Instrument :  
BNA\_E  
ClientSampleId :  
LOD-MDL-SOIL-01-QT2-2019

Tot Ion:152 Resp: 605  
Ion Ratio Lower Upper  
152 100  
150 138.9 111.0 166.6  
115 69.9 50.7 76.1



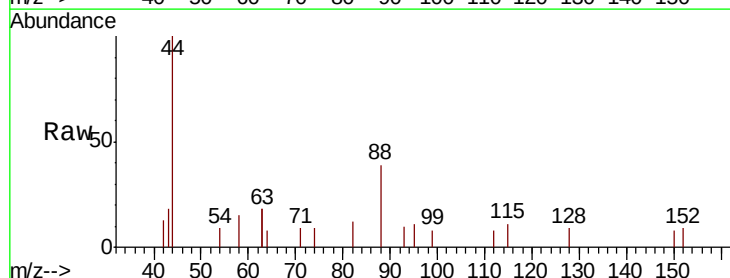
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



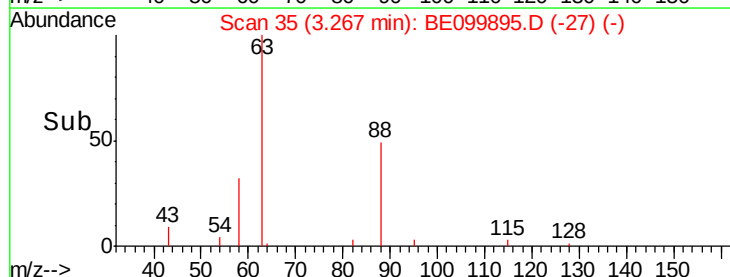
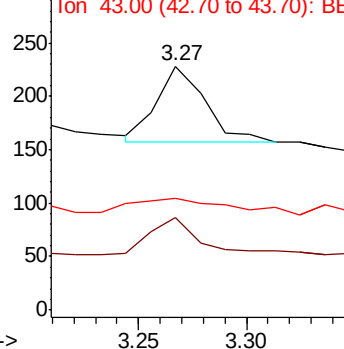
#2

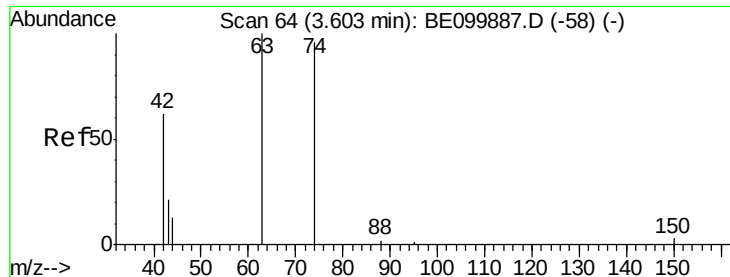
1,4-Dioxane  
Concen: 0.124 ng  
RT: 3.27 min Scan# 35  
Delta R.T. -0.00 min  
Lab File: BE099895.D  
Acq: 10 Jun 2019 18:08

Tgt Ion: 88 Resp: 111  
Ion Ratio Lower Upper  
88 100  
58 49.5 48.8 73.2  
43 45.0 19.0 28.6#



Abundance Ion 88.00 (87.70 to 88.70): BE0  
Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.068 ng

RT: 3.62 min Scan# 66

Delta R.T. 0.02 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

Instrument :

BNA\_E

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

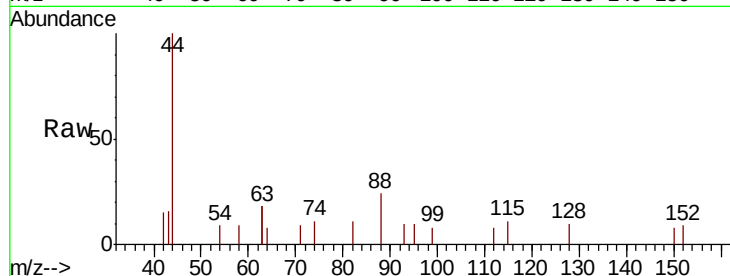
Tot Ion: 42 Resp: 35

Ion Ratio Lower Upper

42 100

74 145.7 0.0 0.0#

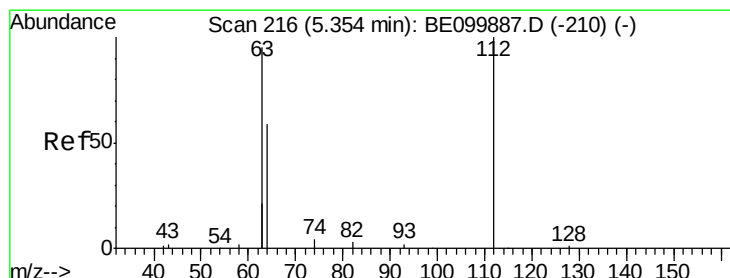
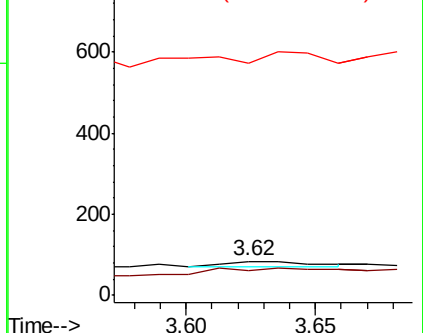
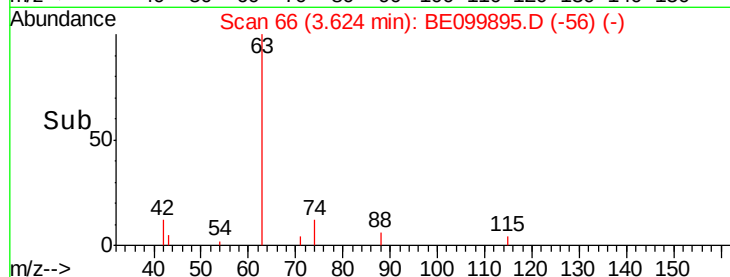
44 340.0 0.0 0.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.861 ng

RT: 5.36 min Scan# 217

Delta R.T. 0.01 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

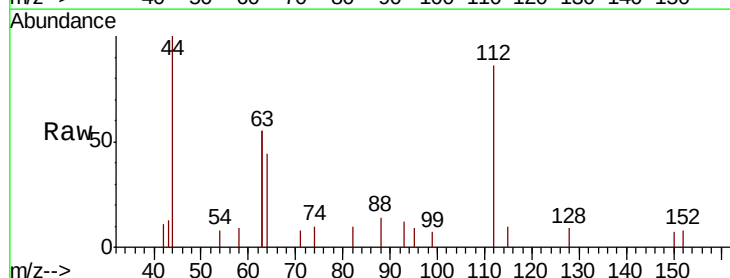
Tgt Ion: 112 Resp: 1407

Ion Ratio Lower Upper

112 100

64 57.8 44.1 66.1

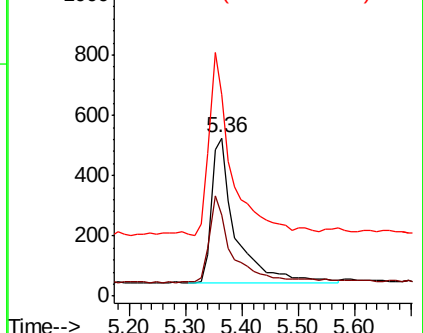
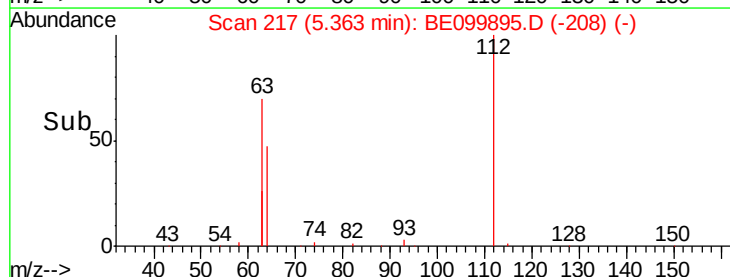
63 116.2 87.8 131.6

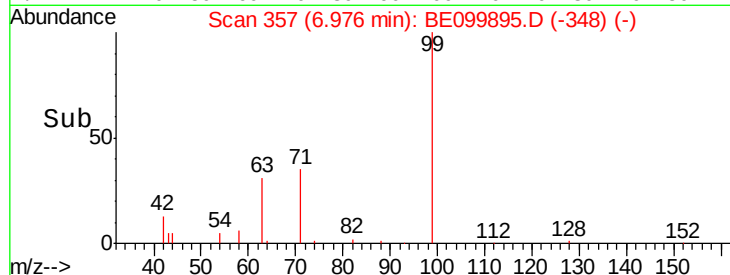
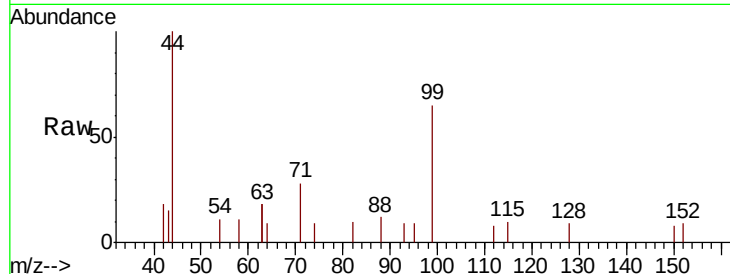
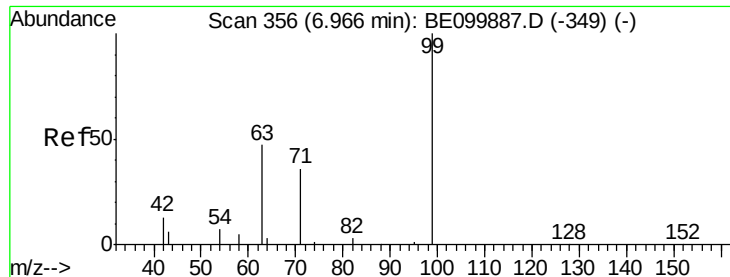


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

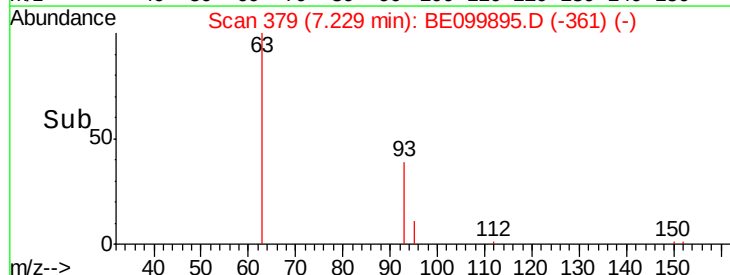
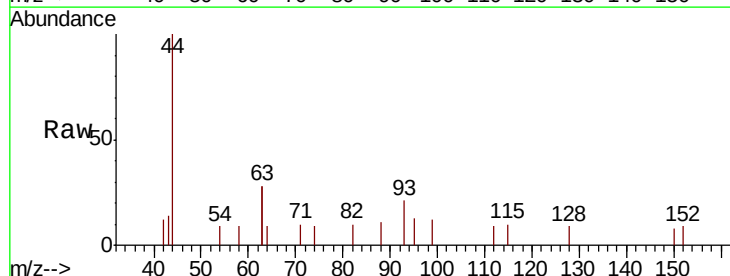
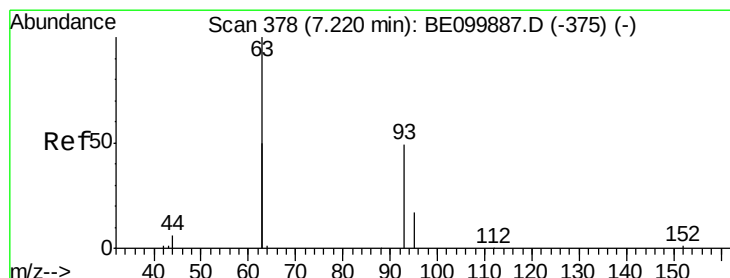
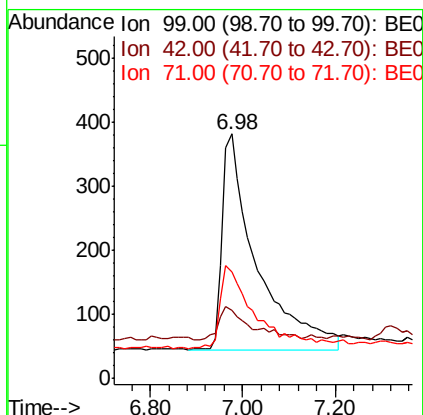




#5  
 Phenol-d6  
 Concen: 0.821 ng  
 RT: 6.98 min Scan# 357  
 Delta R.T. 0.01 min  
 Lab File: BE099895.D  
 Acq: 10 Jun 2019 18:08

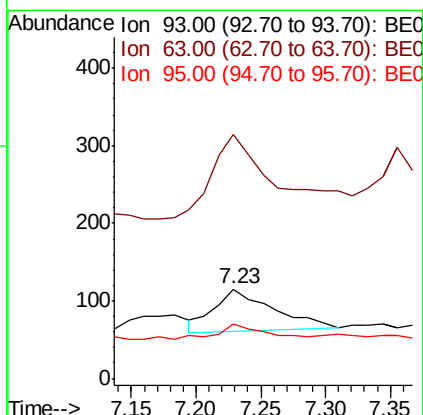
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 14.5  | 15.9  | 23.9# |
| 71      | 39.2  | 34.6  | 52.0  |

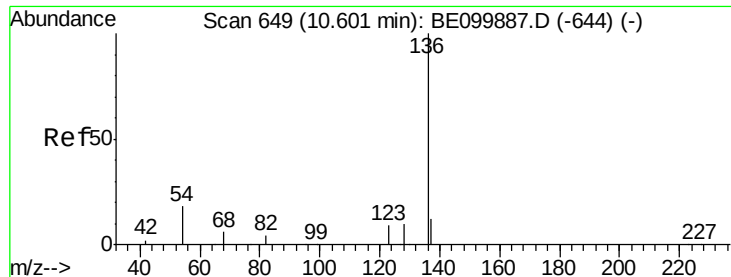
Instrument :  
 BNA\_E  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT2-2019



#6  
 bis(2-Chloroethyl)ether  
 Concen: 0.098 ng  
 RT: 7.23 min Scan# 379  
 Delta R.T. 0.01 min  
 Lab File: BE099895.D  
 Acq: 10 Jun 2019 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 242.0 | 202.8 | 304.2 |
| 95      | 32.5  | 23.7  | 35.5  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.61 min Scan# 650

Delta R.T. 0.01 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

Instrument :

BNA\_E

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

Tot Ion:136 Resp: 2131

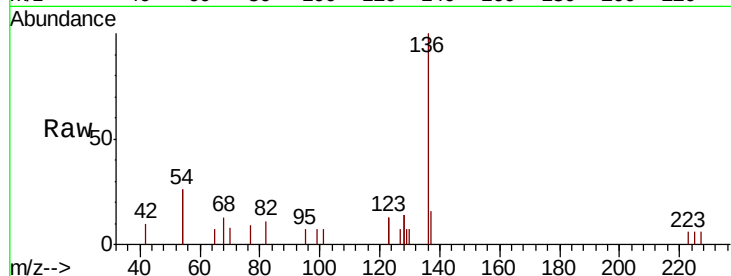
Ion Ratio Lower Upper

136 100

137 16.0 12.3 18.5

54 51.8 28.2 42.4#

68 13.2 7.8 11.8#

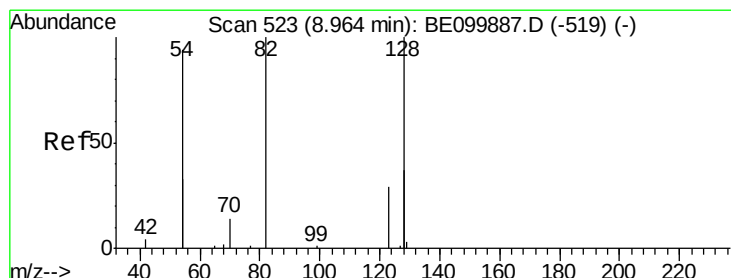
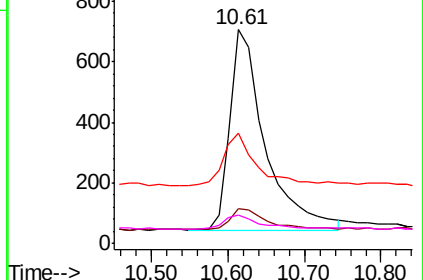
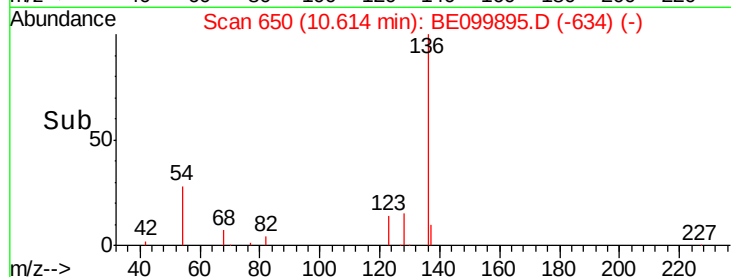


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.603 ng

RT: 8.99 min Scan# 525

Delta R.T. 0.03 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

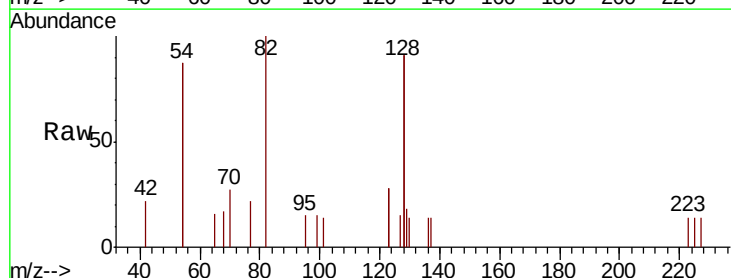
Tgt Ion: 82 Resp: 1217

Ion Ratio Lower Upper

82 100

128 181.5 137.3 205.9

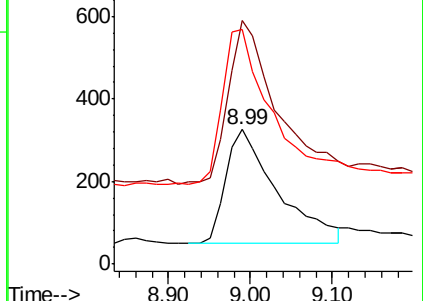
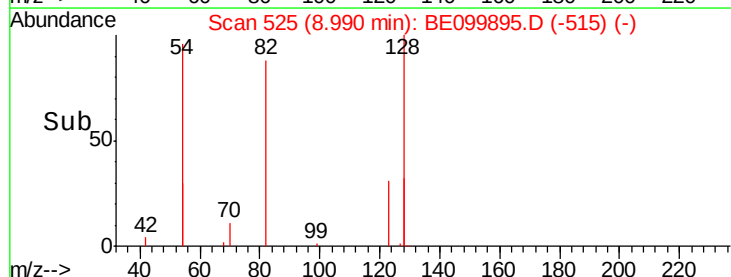
54 174.8 129.7 194.5

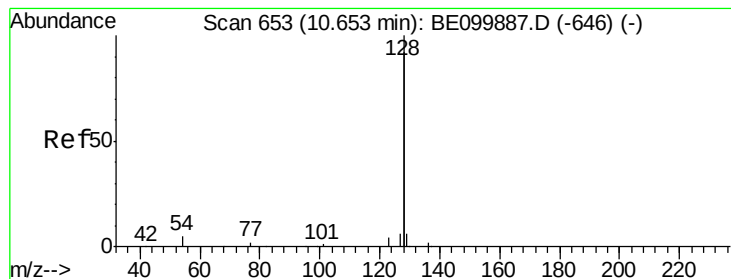


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.122 ng

RT: 10.67 min Scan# 654

Delta R.T. 0.01 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

Instrument :

BNA\_E

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

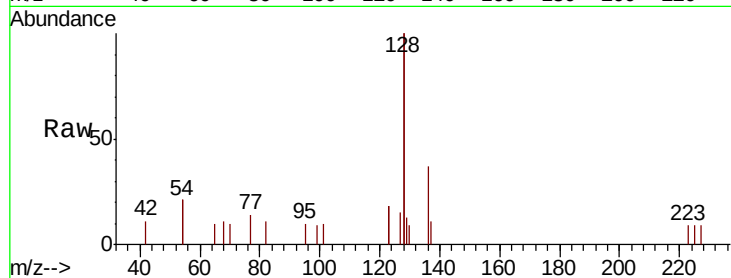
Tot Ion:128 Resp: 2811

Ion Ratio Lower Upper

128 100

129 6.7 3.0 4.6#

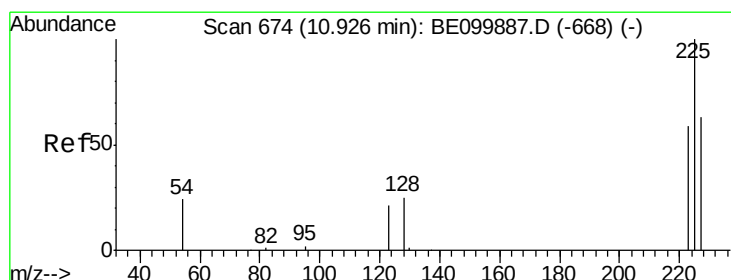
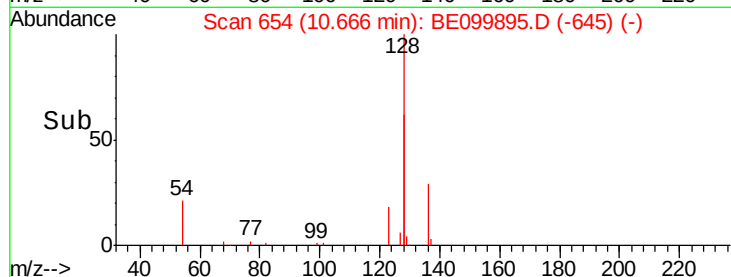
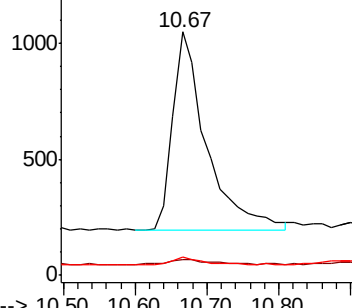
127 7.5 3.4 5.0#



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



#10

Hexachlorobutadiene

Concen: 0.115 ng

RT: 10.93 min Scan# 674

Delta R.T. -0.00 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

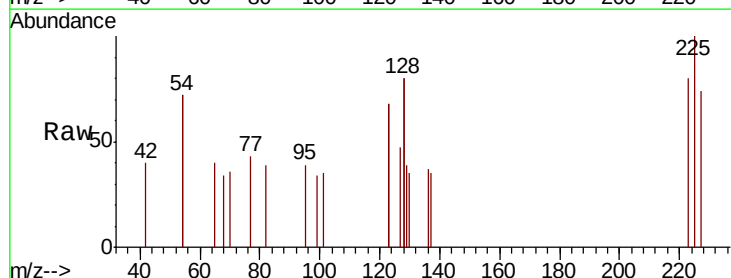
Tgt Ion:225 Resp: 202

Ion Ratio Lower Upper

225 100

223 69.3 51.6 77.4

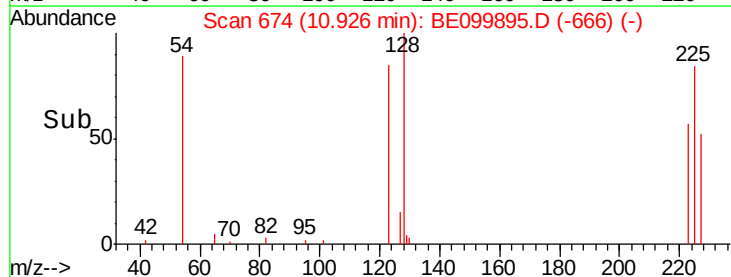
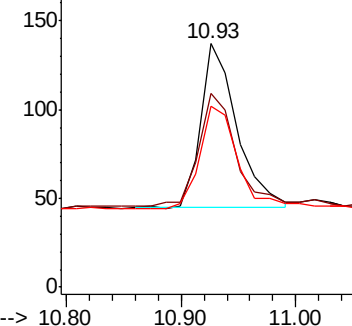
227 66.3 50.6 76.0

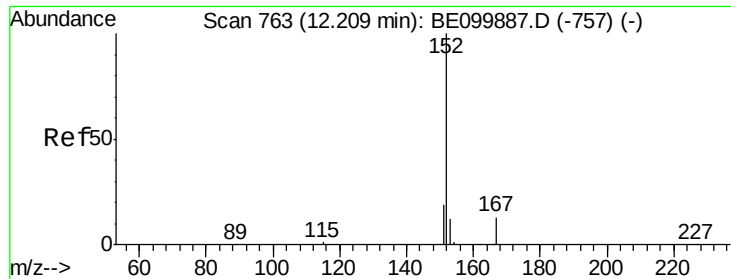


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

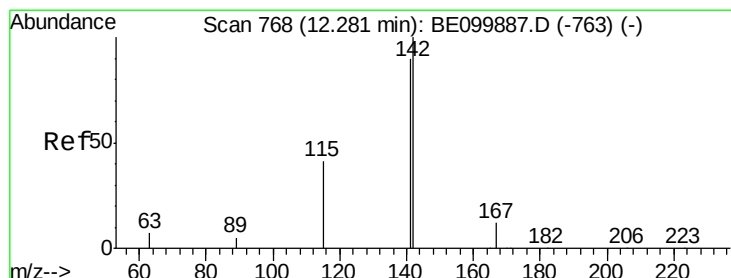
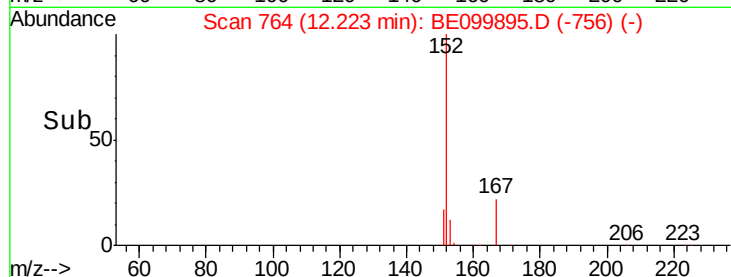
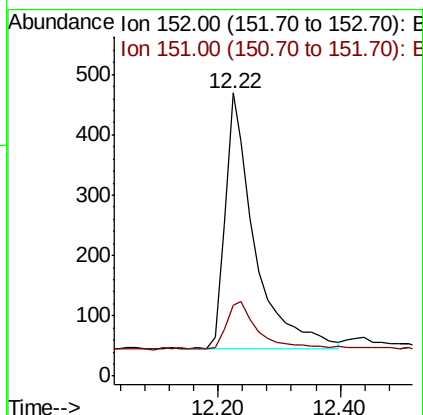
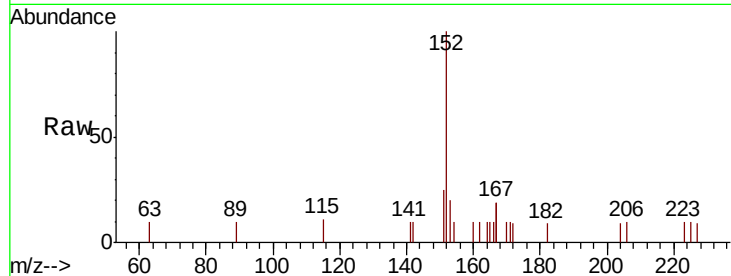




#11  
2-Methylnaphthalene-d10  
Concen: 0.387 ng  
RT: 12.22 min Scan# 764  
Delta R.T. 0.01 min  
Lab File: BE099895.D  
Acq: 10 Jun 2019 18:08

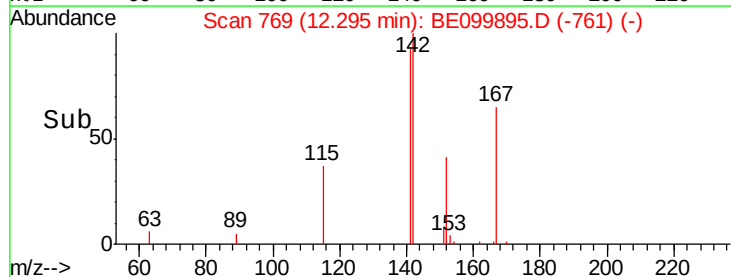
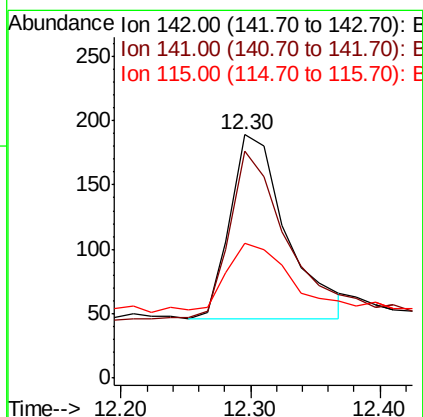
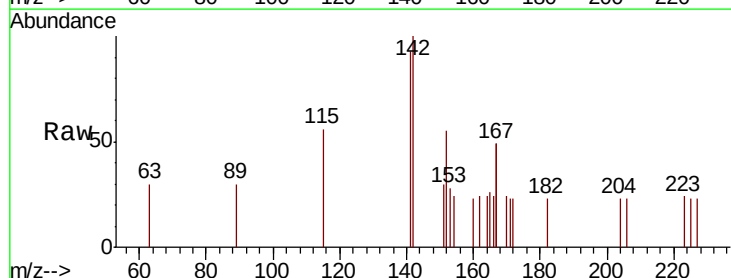
Instrument :  
BNA\_E  
ClientSampleId :  
LOD-MDL-SOIL-01-QT2-2019

Tot Ion:152 Resp: 1438  
Ion Ratio Lower Upper  
152 100  
151 20.6 15.2 22.8

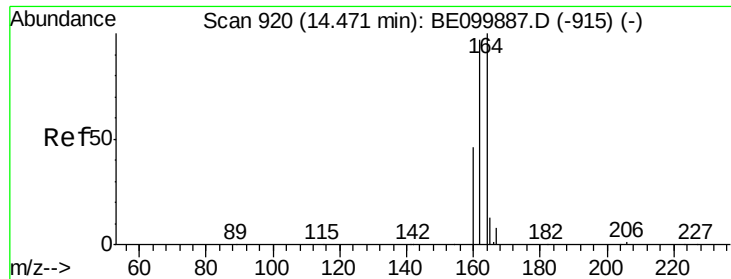


#12  
2-Methylnaphthalene  
Concen: 0.116 ng  
RT: 12.30 min Scan# 769  
Delta R.T. 0.01 min  
Lab File: BE099895.D  
Acq: 10 Jun 2019 18:08

Tgt Ion:142 Resp: 435  
Ion Ratio Lower Upper  
142 100  
141 93.1 72.3 108.5  
115 55.6 36.4 54.6#



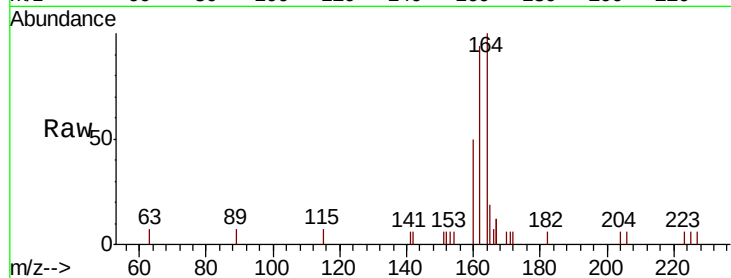




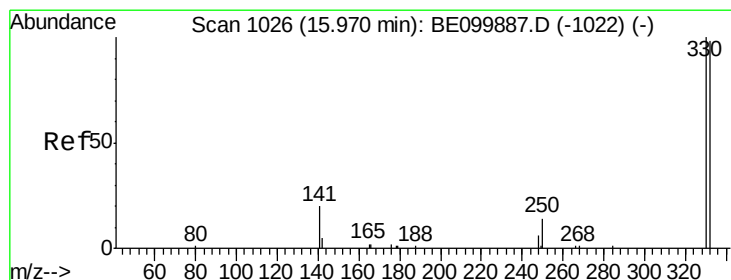
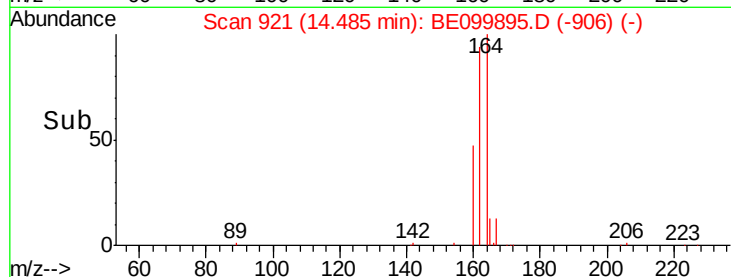
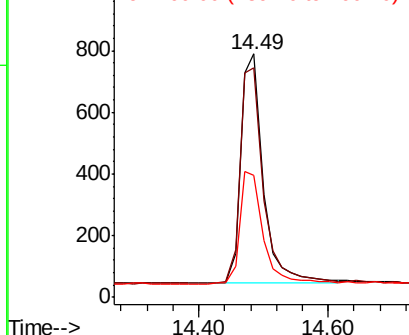
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.49 min Scan# 921  
Delta R.T. 0.01 min  
Lab File: BE099895.D  
Acq: 10 Jun 2019 18:08

Instrument :  
BNA\_E  
ClientSampleId :  
LOD-MDL-SOIL-01-QT2-2019

Tot Ion:164 Resp: 1798  
Ion Ratio Lower Upper  
164 100  
162 94.4 77.8 116.8  
160 50.2 38.2 57.4

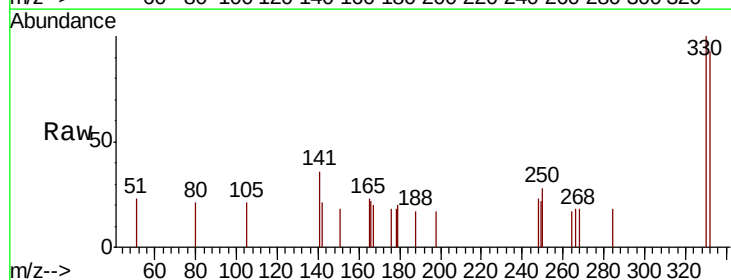


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

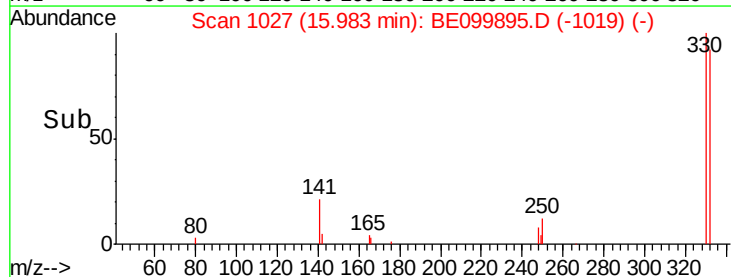
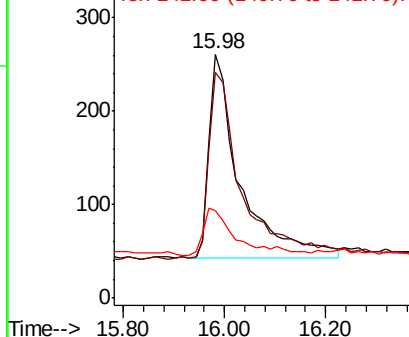


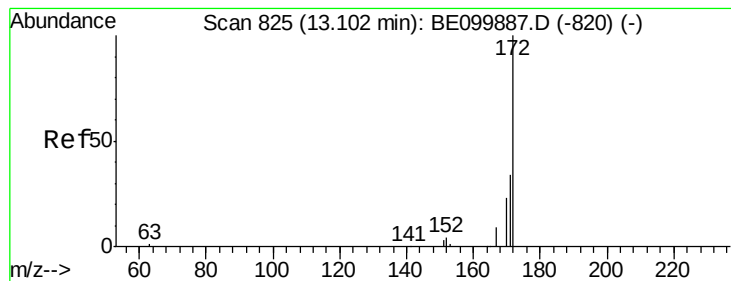
#14  
2,4,6-Tribromophenol  
Concen: 0.699 ng  
RT: 15.98 min Scan# 1027  
Delta R.T. 0.01 min  
Lab File: BE099895.D  
Acq: 10 Jun 2019 18:08

Tgt Ion:330 Resp: 929  
Ion Ratio Lower Upper  
330 100  
332 97.2 76.7 115.1  
141 24.2 21.0 31.6



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: 0.674 ng

RT: 13.12 min Scan# 826

Delta R.T. 0.01 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

Instrument :

BNA\_E

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

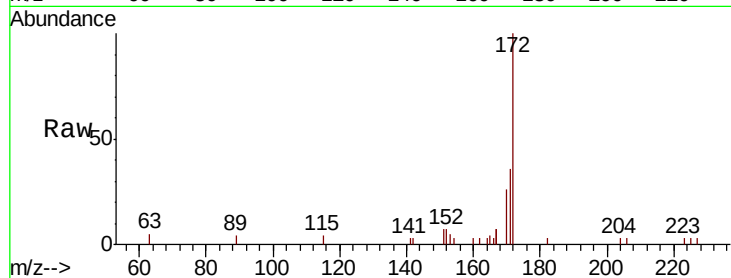
Tot Ion:172 Resp: 4594

Ion Ratio Lower Upper

172 100

171 36.0 29.2 43.8

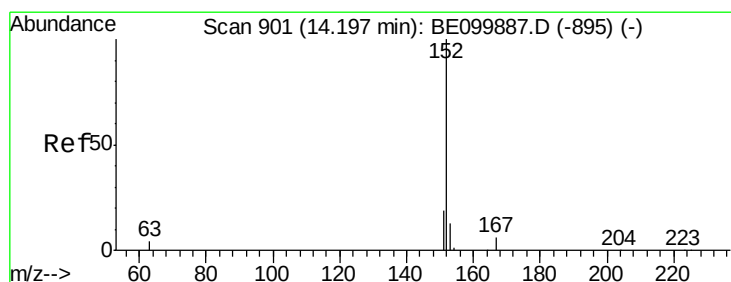
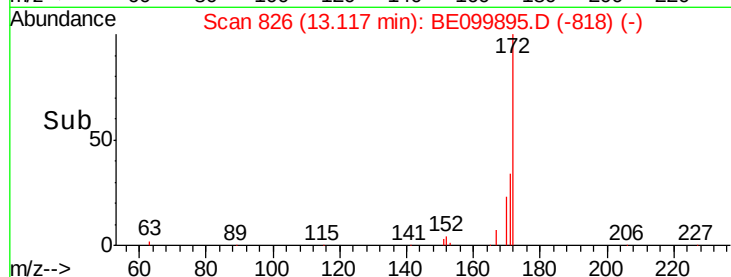
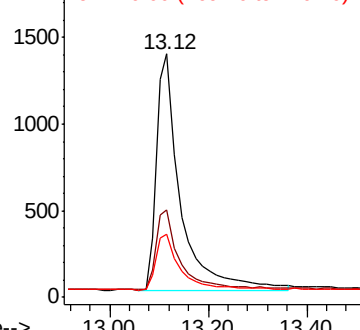
170 25.8 21.2 31.8



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: 0.109 ng

RT: 14.20 min Scan# 901

Delta R.T. 0.00 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

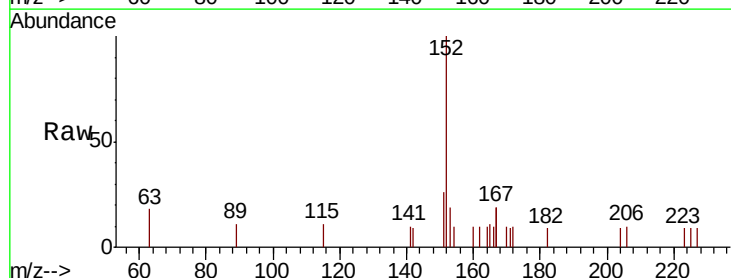
Tgt Ion:152 Resp: 974

Ion Ratio Lower Upper

152 100

151 19.8 15.5 23.3

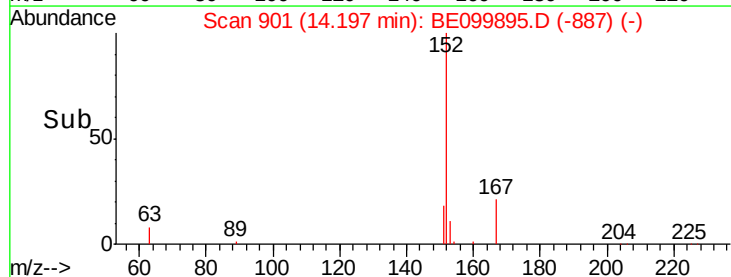
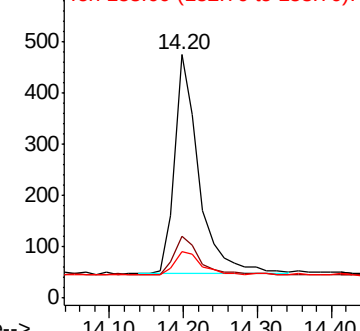
153 12.7 10.2 15.2

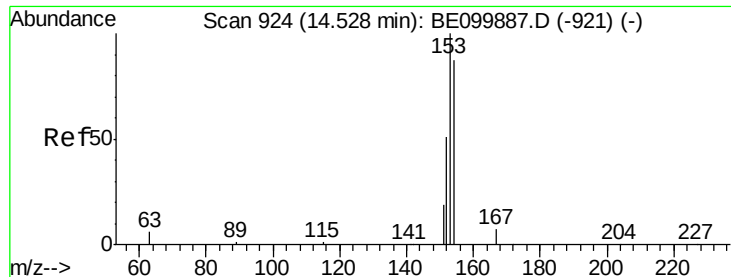


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

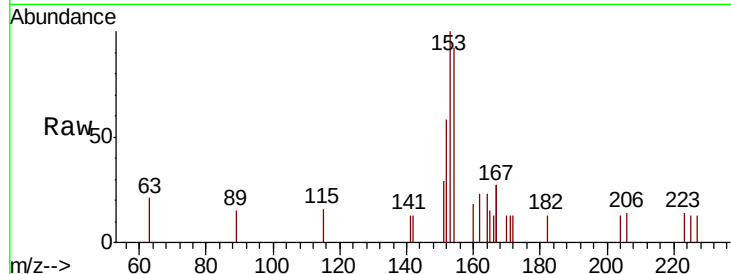




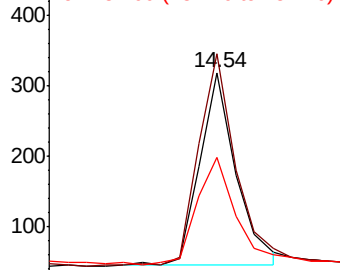
#17  
Acenaphthene  
Concen: 0.107 ng  
RT: 14.54 min Scan# 925  
Delta R.T. 0.01 min  
Lab File: BE099895.D  
Acq: 10 Jun 2019 18:08

Instrument :  
BNA\_E  
ClientSampleId :  
LOD-MDL-SOIL-01-QT2-2019

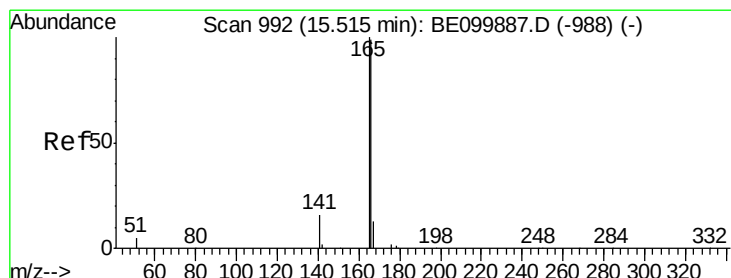
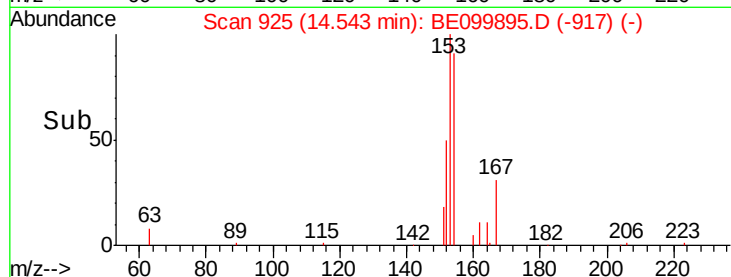
Tot Ion:154 Resp: 523  
Ion Ratio Lower Upper  
154 100  
153 112.8 93.1 139.7  
152 60.2 47.0 70.4



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

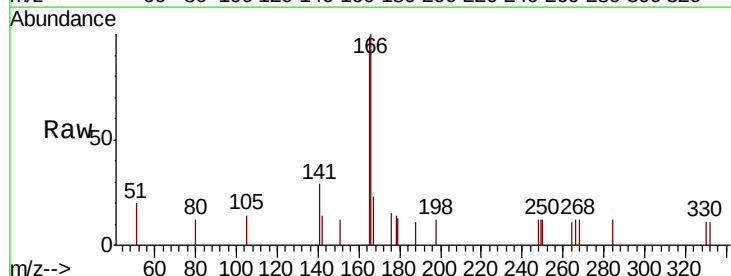


Time-->

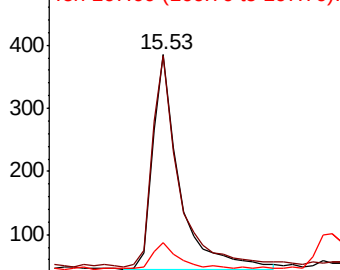


#18  
Fluorene  
Concen: 0.116 ng  
RT: 15.53 min Scan# 993  
Delta R.T. 0.01 min  
Lab File: BE099895.D  
Acq: 10 Jun 2019 18:08

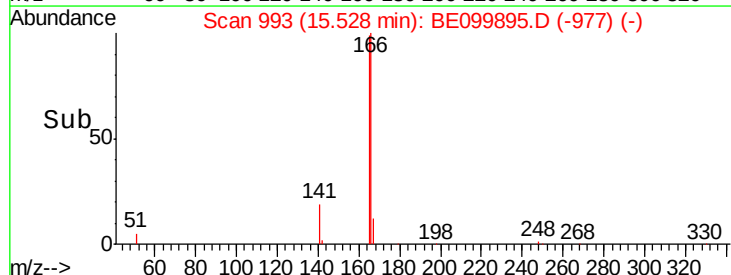
Tgt Ion:166 Resp: 850  
Ion Ratio Lower Upper  
166 100  
165 98.2 81.8 122.8  
167 14.7 11.2 16.8

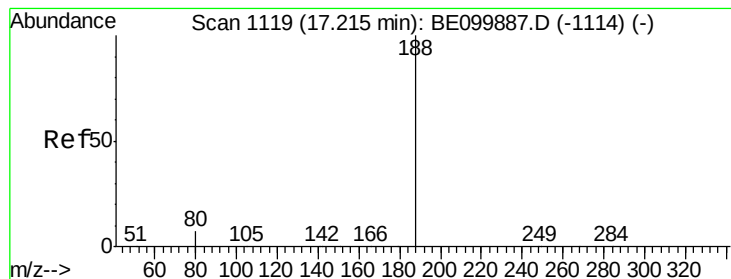


Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E



Time-->





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.01 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

Instrument :

BNA\_E

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

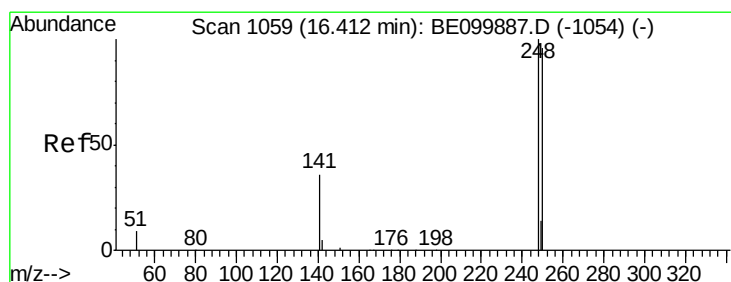
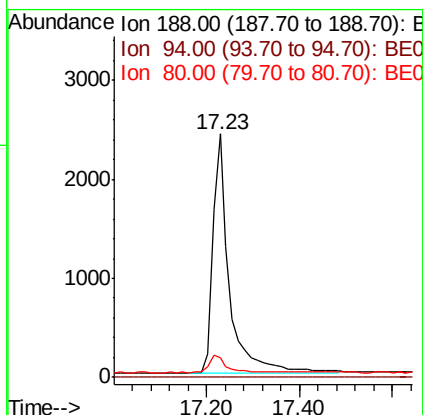
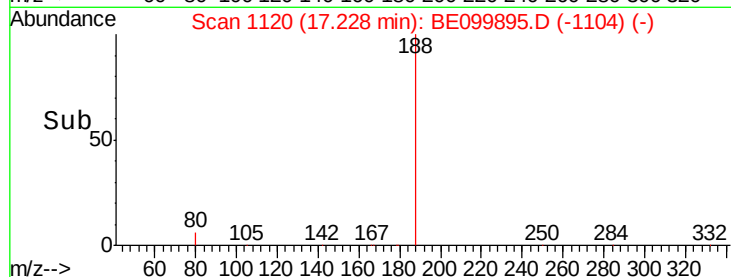
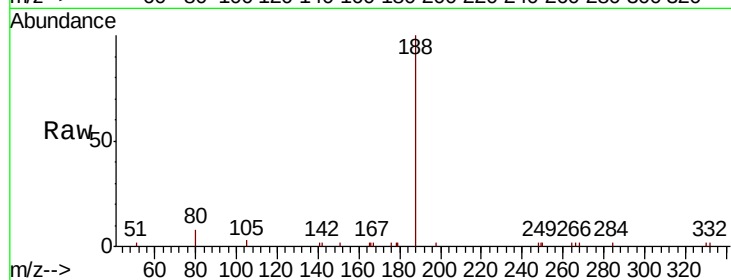
Tot Ion:188 Resp: 6040

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.9 6.4 9.6



#20

4-Bromophenyl-phenylether

Concen: 0.106 ng

RT: 16.42 min Scan# 1060

Delta R.T. 0.01 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

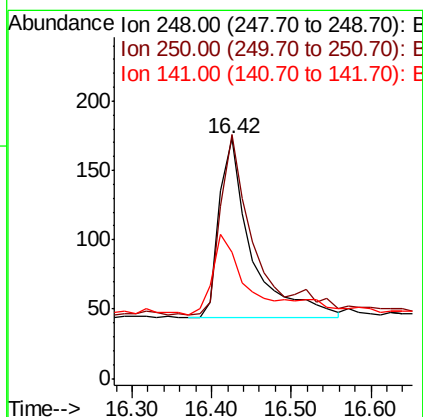
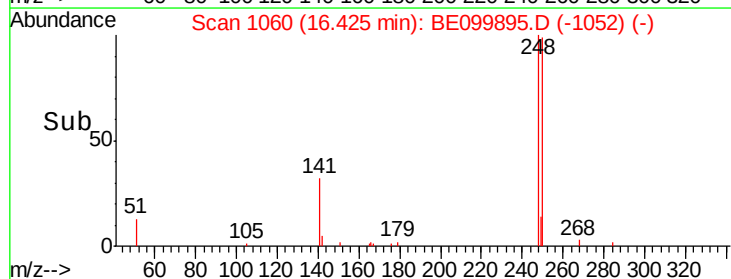
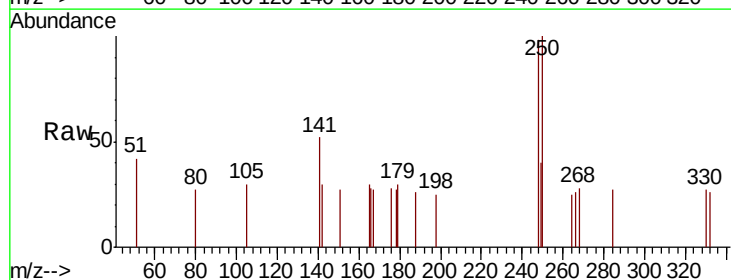
Tgt Ion:248 Resp: 363

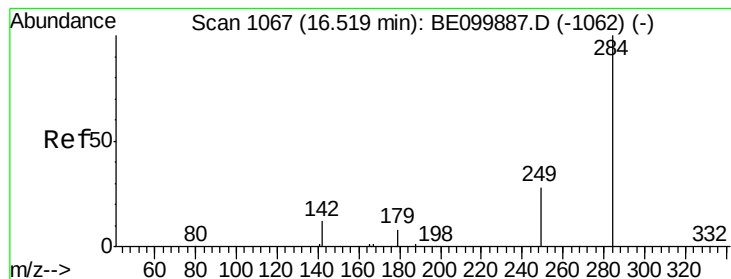
Ion Ratio Lower Upper

248 100

250 101.7 77.5 116.3

141 52.6 31.8 47.8#





#21

Hexachlorobenzene

Concen: 0.117 ng

RT: 16.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

Instrument :

BNA\_E

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

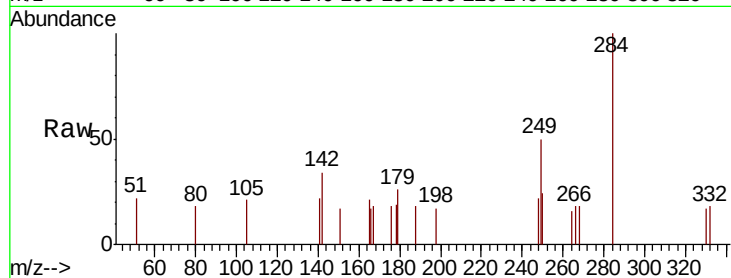
Tot Ion:284 Resp: 408

Ion Ratio Lower Upper

284 100

142 21.6 18.2 27.4

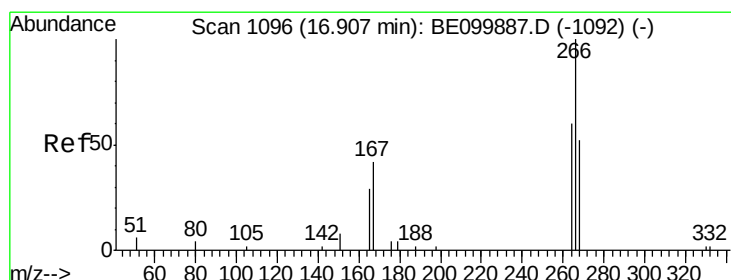
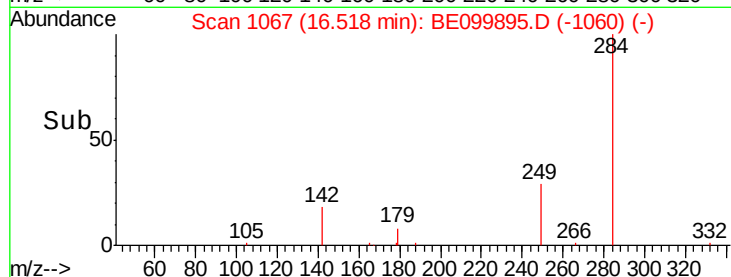
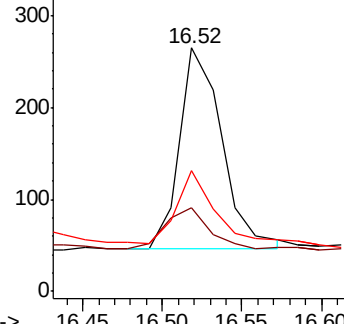
249 30.4 24.6 37.0



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: 0.007 ng

RT: 16.95 min Scan# 1099

Delta R.T. 0.04 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

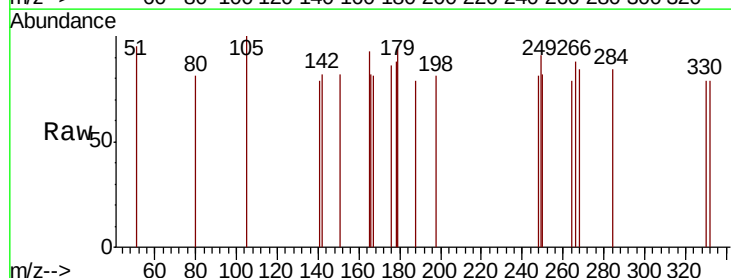
Tgt Ion:266 Resp: 8

Ion Ratio Lower Upper

266 100

264 90.0 62.2 93.2

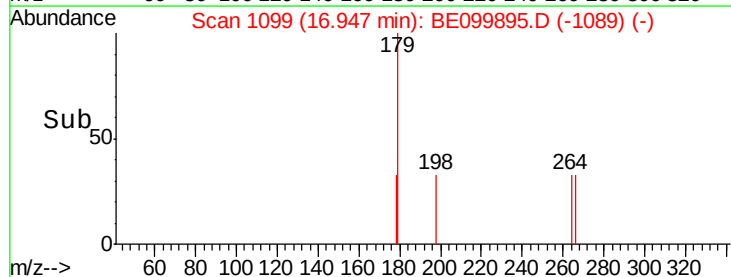
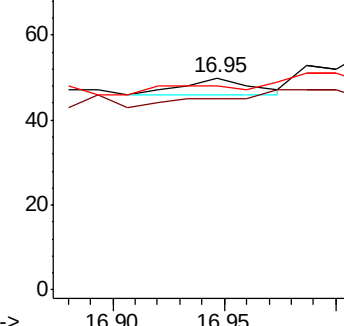
268 96.0 65.5 98.3

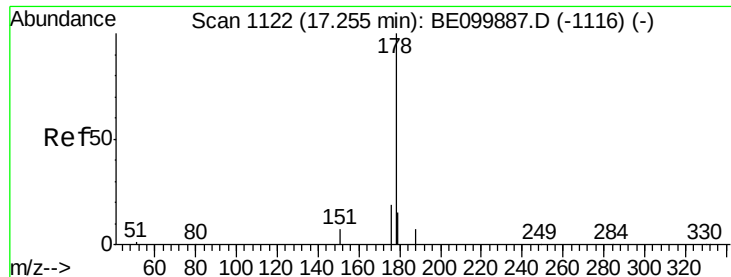


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E

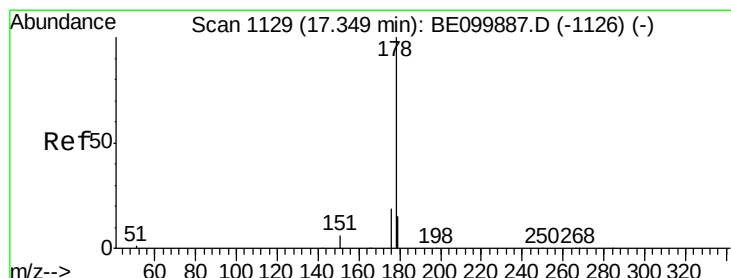
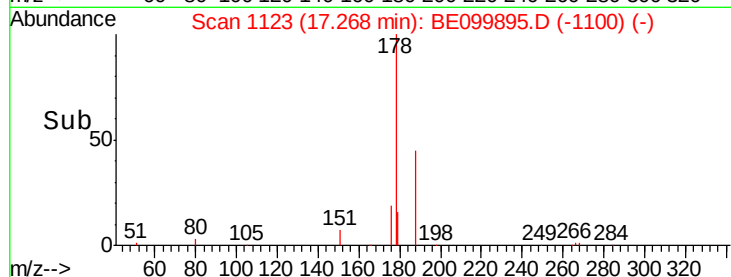
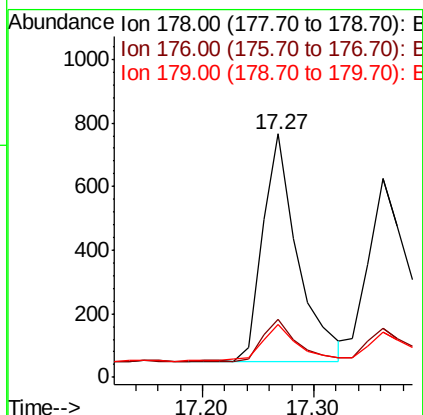
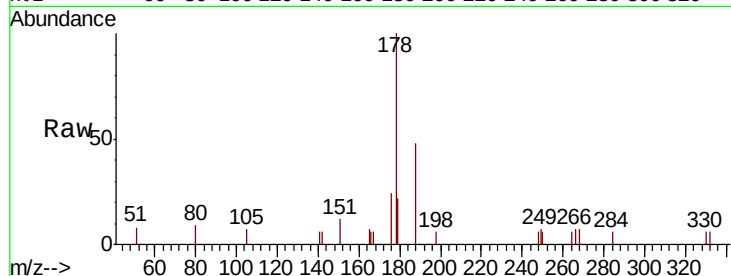




#23  
Phenanthrene  
Concen: 0.107 ng  
RT: 17.27 min Scan# 1123  
Delta R.T. 0.01 min  
Lab File: BE099895.D  
Acq: 10 Jun 2019 18:08

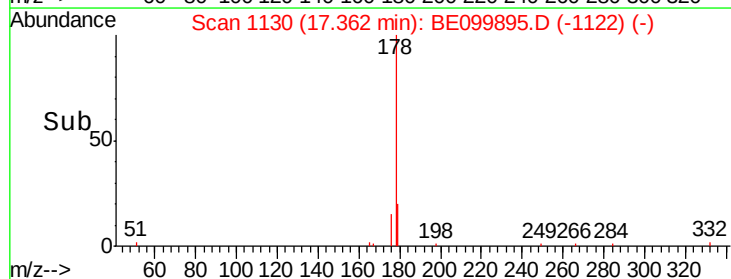
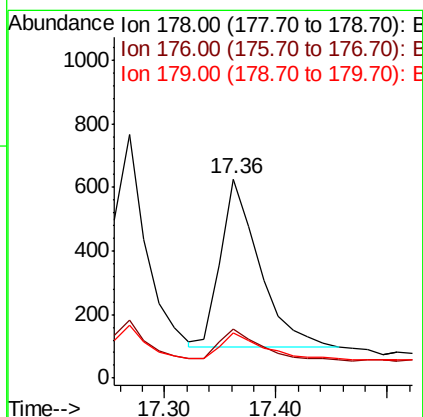
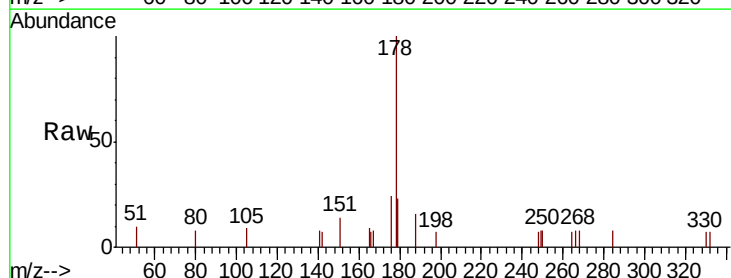
Instrument :  
BNA\_E  
ClientSampleId :  
LOD-MDL-SOIL-01-QT2-2019

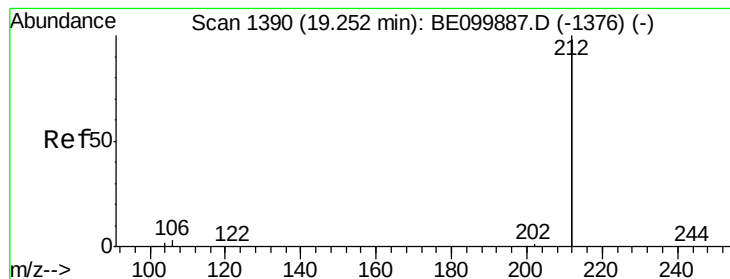
Tot Ion:178 Resp: 1574  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.8 23.8  
179 16.7 12.4 18.6



#24  
Anthracene  
Concen: 0.095 ng  
RT: 17.36 min Scan# 1130  
Delta R.T. 0.01 min  
Lab File: BE099895.D  
Acq: 10 Jun 2019 18:08

Tgt Ion:178 Resp: 1271  
Ion Ratio Lower Upper  
178 100  
176 18.3 14.6 22.0  
179 14.9 12.3 18.5





#25

Fluoranthene-d10

Concen: 0.366 ng

RT: 19.25 min Scan# 1390

Delta R.T. 0.00 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

Instrument :

BNA\_E

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

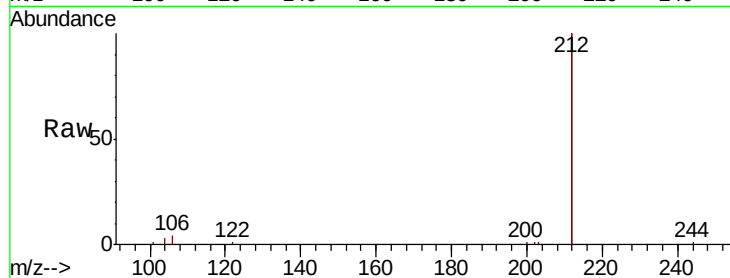
Tot Ion:212 Resp: 32213

Ion Ratio Lower Upper

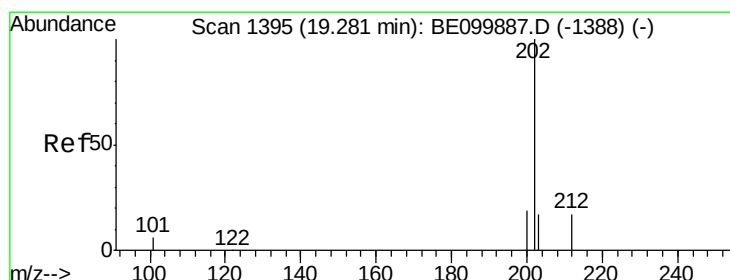
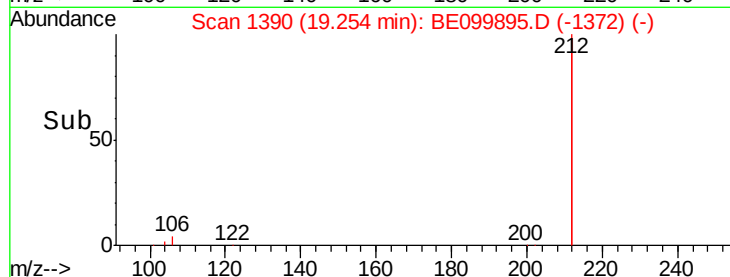
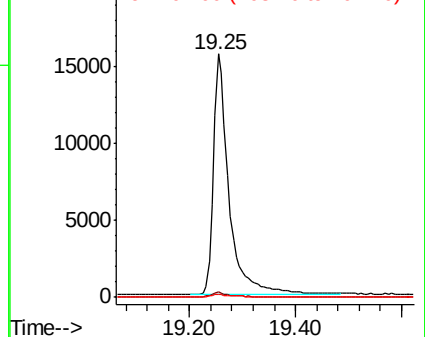
212 100

106 1.8 1.4 2.2

104 1.1 0.9 1.3



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: 0.110 ng

RT: 19.28 min Scan# 1395

Delta R.T. 0.00 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

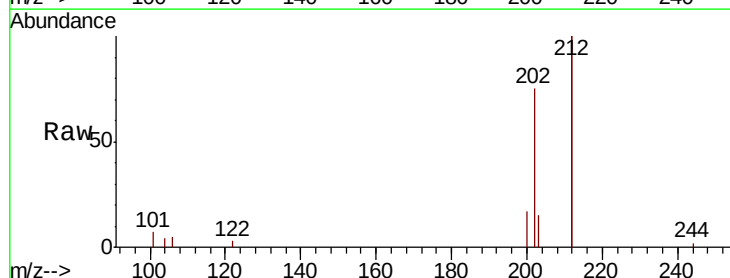
Tgt Ion:202 Resp: 2739

Ion Ratio Lower Upper

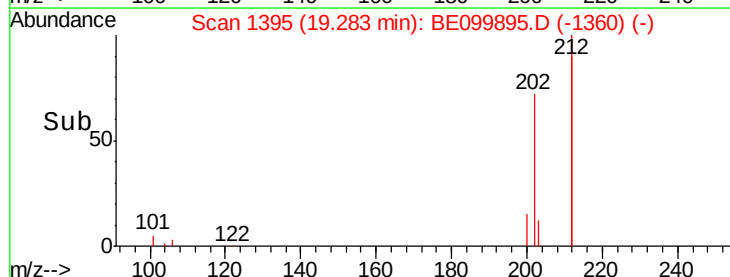
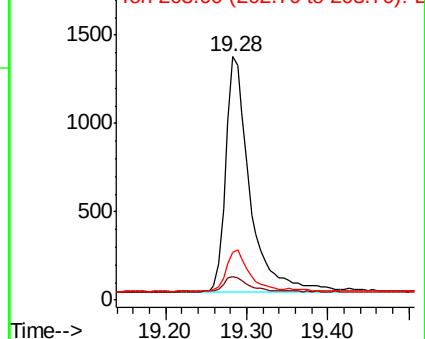
202 100

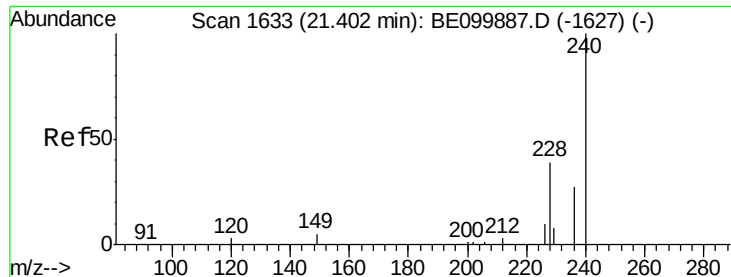
101 6.5 5.4 8.0

203 16.5 13.2 19.8



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

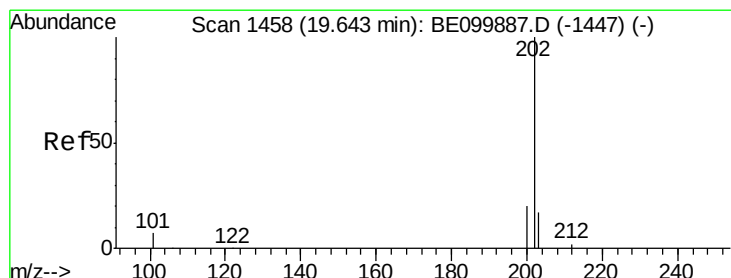
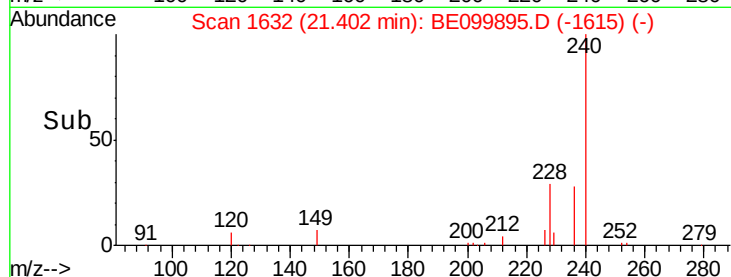
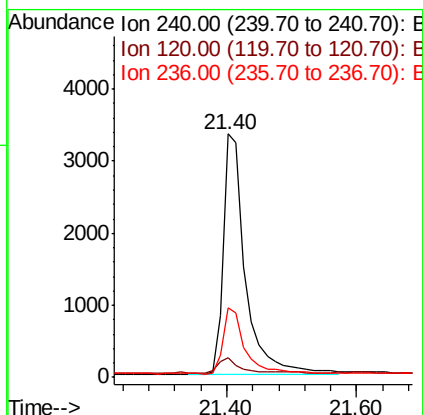
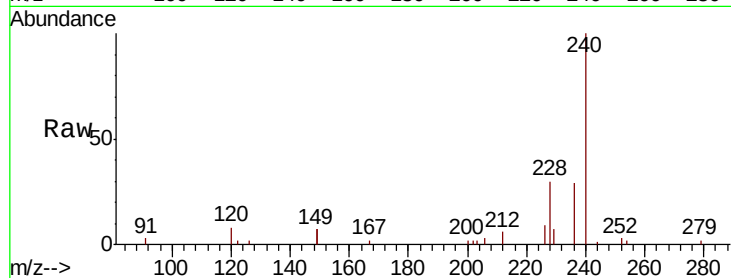




#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.40 min Scan# 1632  
Delta R.T. -0.00 min  
Lab File: BE099895.D  
Acq: 10 Jun 2019 18:08

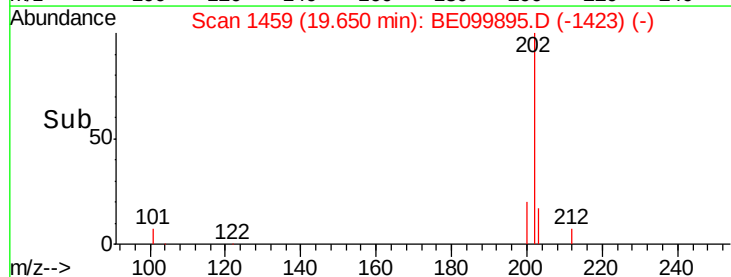
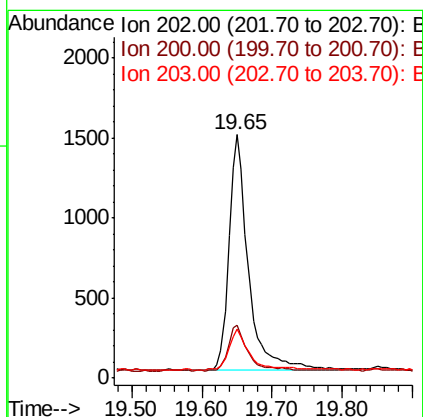
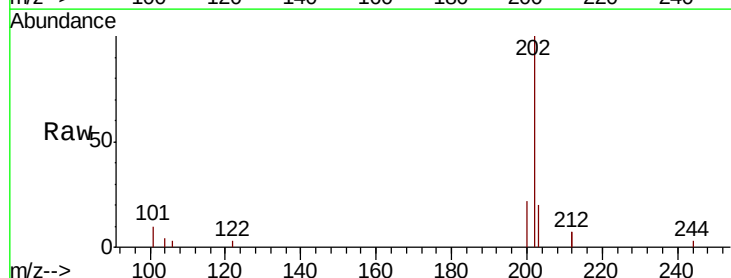
Instrument :  
BNA\_E  
ClientSampleId :  
LOD-MDL-SOIL-01-QT2-2019

Tot Ion:240 Resp: 7962  
Ion Ratio Lower Upper  
240 100  
120 7.9 3.8 5.6#  
236 28.8 22.0 33.0

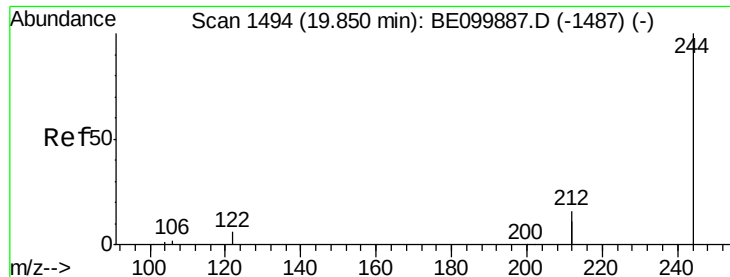


#28  
Pyrene  
Concen: 0.136 ng  
RT: 19.65 min Scan# 1459  
Delta R.T. 0.01 min  
Lab File: BE099895.D  
Acq: 10 Jun 2019 18:08

Tgt Ion:202 Resp: 2843  
Ion Ratio Lower Upper  
202 100  
200 18.6 15.5 23.3  
203 17.1 14.0 21.0







#29

Terphenyl-d14

Concen: 0.895 ng

RT: 19.85 min Scan# 1494

Delta R.T. 0.00 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

Instrument :

BNA\_E

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

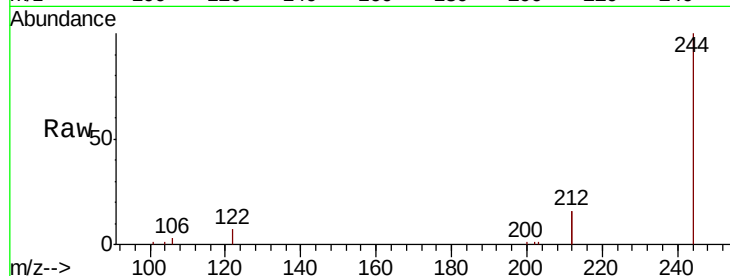
Tot Ion:244 Resp: 12822

Ion Ratio Lower Upper

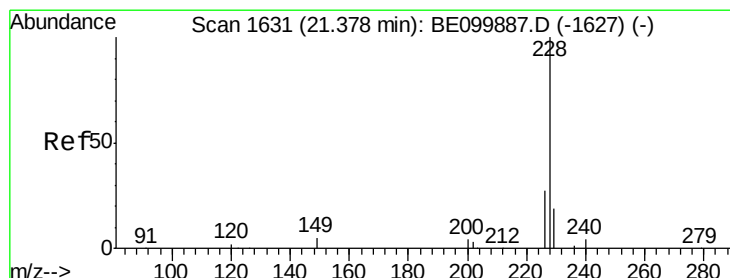
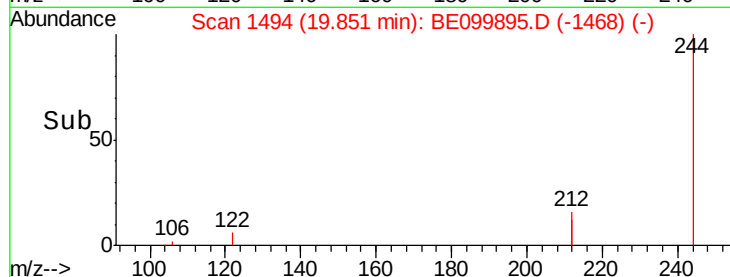
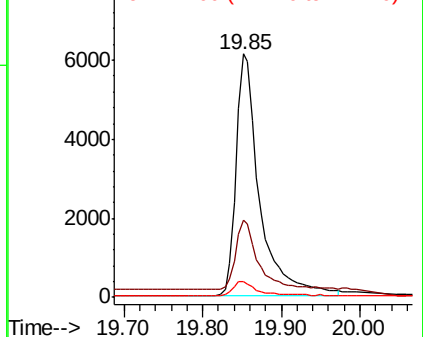
244 100

212 31.5 25.7 38.5

122 6.6 5.5 8.3



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: 0.105 ng

RT: 21.39 min Scan# 1631

Delta R.T. 0.01 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

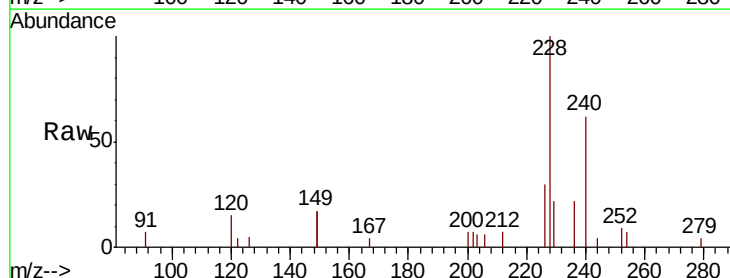
Tgt Ion:228 Resp: 2506

Ion Ratio Lower Upper

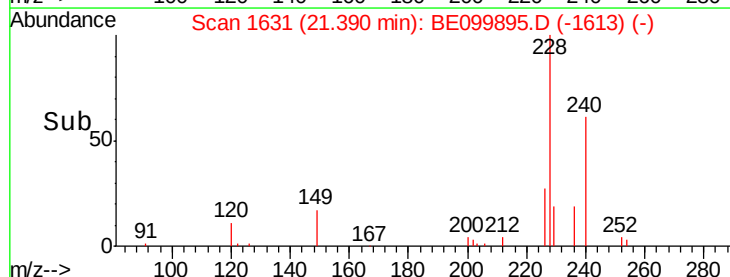
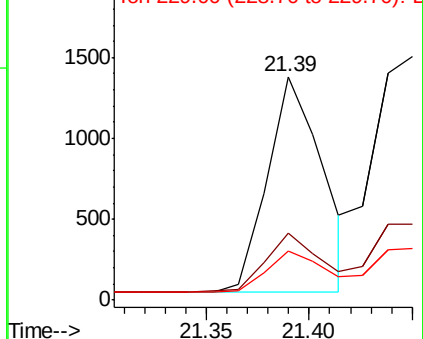
228 100

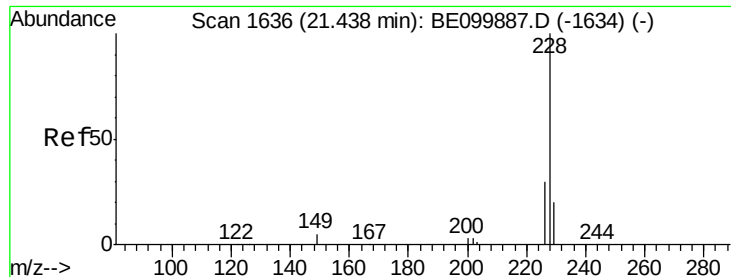
226 29.9 22.5 33.7

229 21.9 15.9 23.9



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: 0.134 ng

RT: 21.45 min Scan# 1636

Delta R.T. 0.01 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

Instrument :

BNA\_E

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

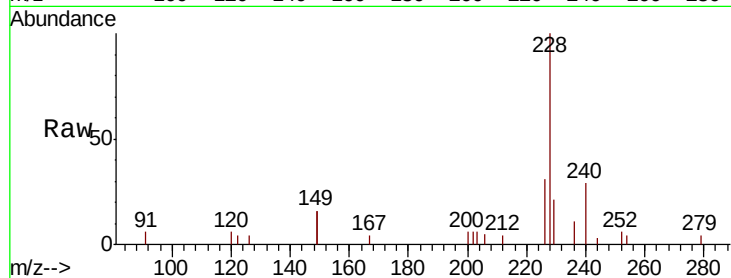
Tot Ion:228 Resp: 3291

Ion Ratio Lower Upper

228 100

226 30.9 24.1 36.1

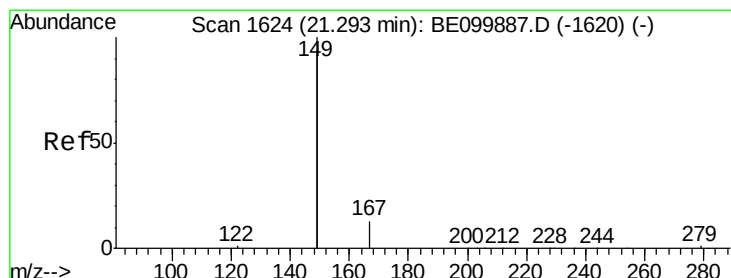
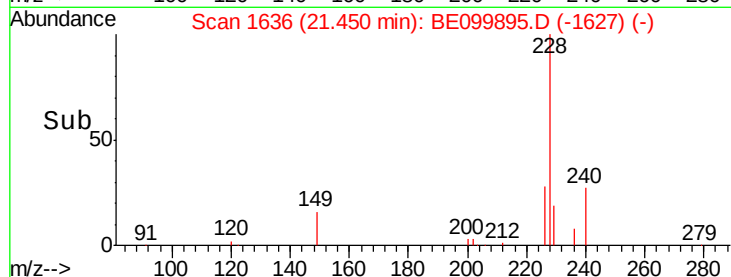
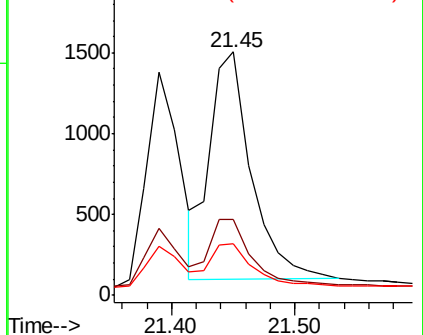
229 21.3 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.112 ng

RT: 21.31 min Scan# 1624

Delta R.T. 0.01 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

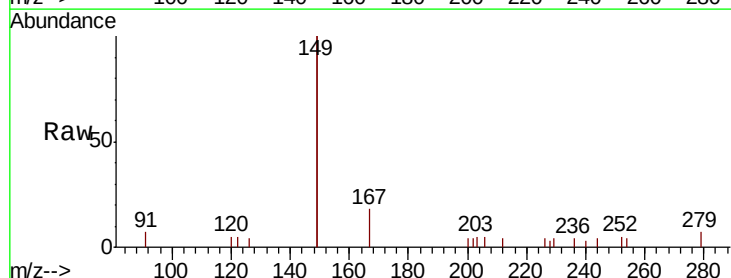
Tgt Ion:149 Resp: 3832

Ion Ratio Lower Upper

149 100

167 7.2 5.9 8.9

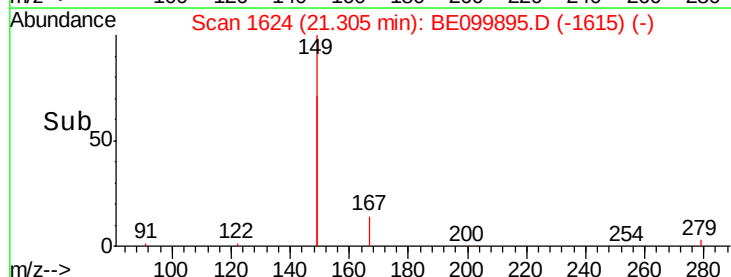
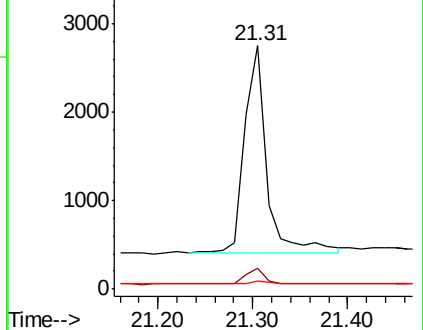
279 1.6 1.2 1.8

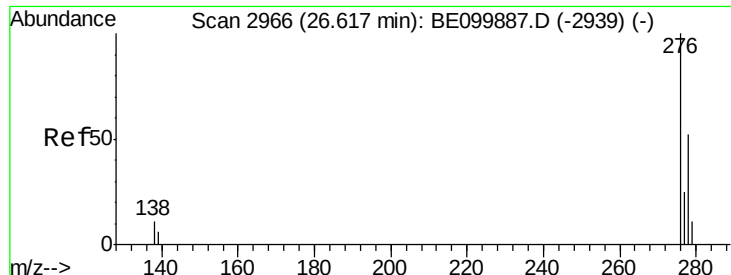


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

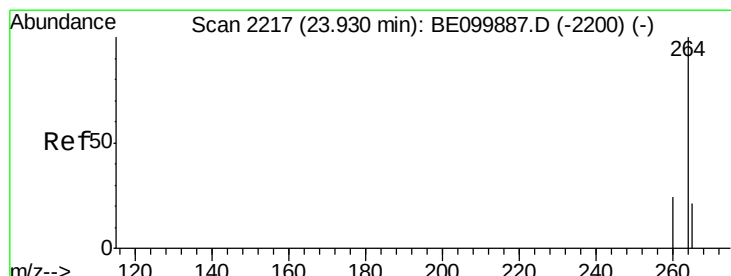
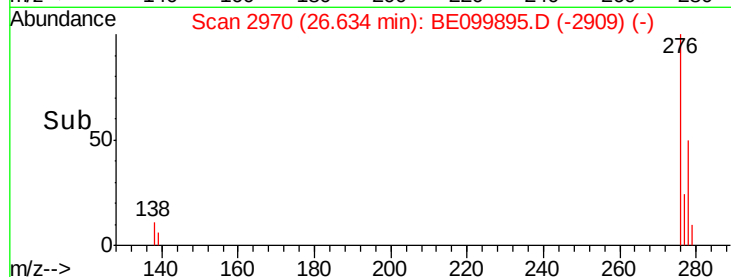
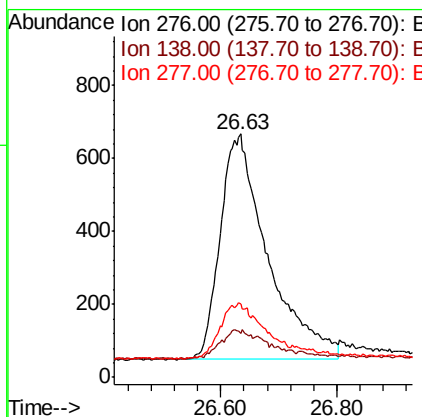
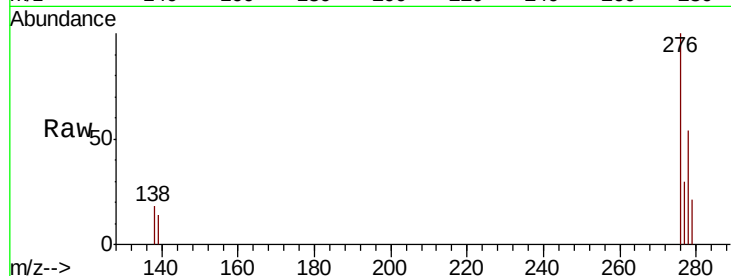




#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.121 ng  
 RT: 26.63 min Scan# 2970  
 Delta R.T. 0.02 min  
 Lab File: BE099895.D  
 Acq: 10 Jun 2019 18:08

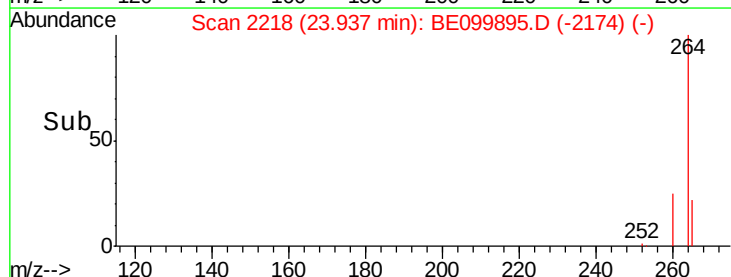
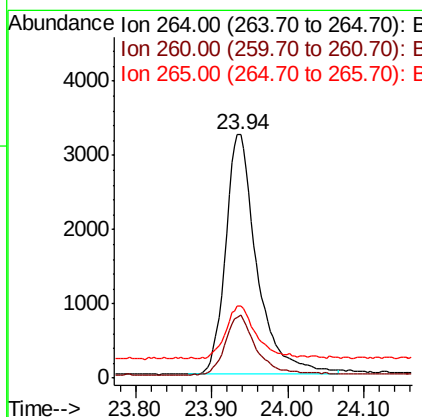
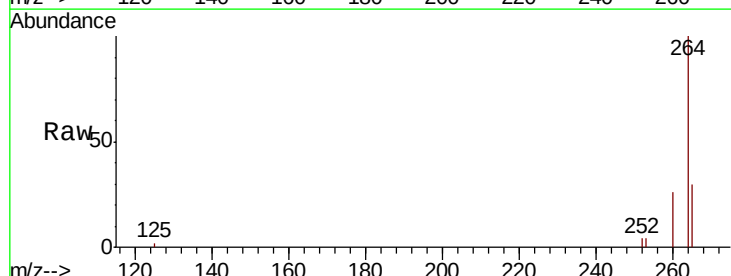
Instrument :  
 BNA\_E  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT2-2019

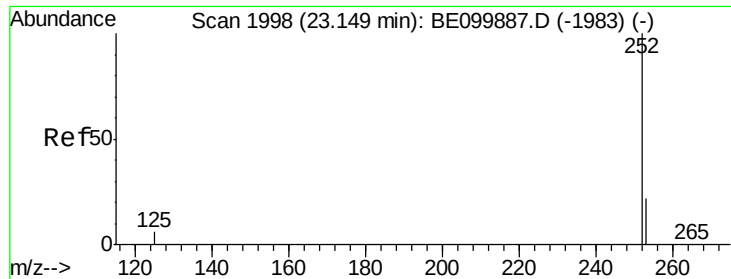
Tot Ion:276 Resp: 3516  
 Ion Ratio Lower Upper  
 276 100  
 138 5.6 10.1 15.1#  
 277 22.5 19.1 28.7



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.94 min Scan# 2218  
 Delta R.T. 0.01 min  
 Lab File: BE099895.D  
 Acq: 10 Jun 2019 18:08

Tgt Ion:264 Resp: 9277  
 Ion Ratio Lower Upper  
 264 100  
 260 26.0 20.2 30.2  
 265 29.8 22.0 33.0





#35

Benzo(b)fluoranthene

Concen: 0.107 ng

RT: 23.16 min Scan# 1999

Delta R.T. 0.01 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

Instrument :

BNA\_E

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

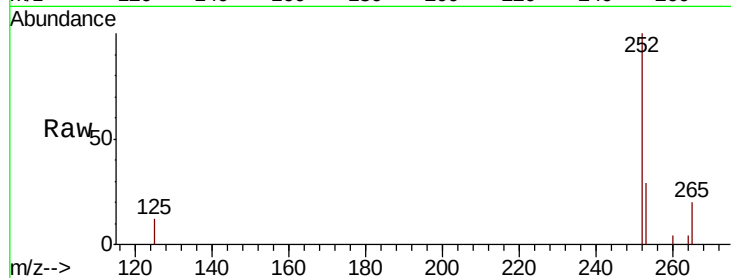
Tot Ion:252 Resp: 2776

Ion Ratio Lower Upper

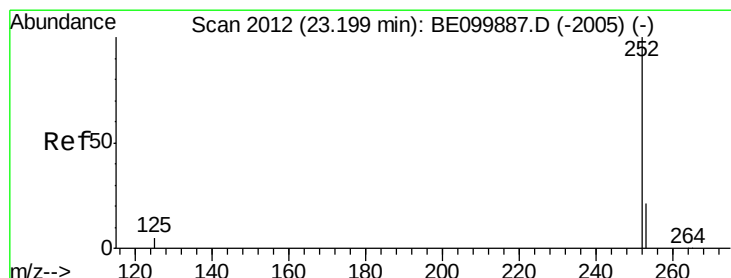
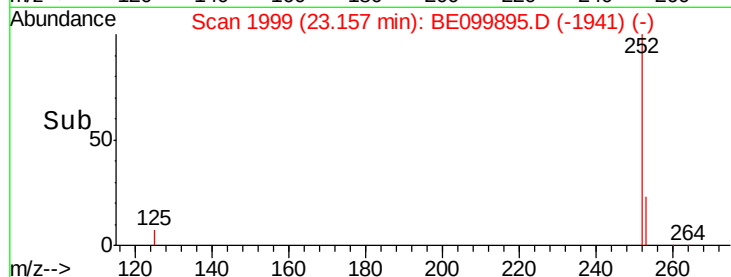
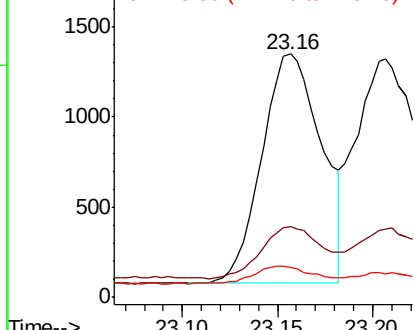
252 100

253 29.2 18.7 28.1#

125 12.1 5.7 8.5#



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: 0.112 ng

RT: 23.21 min Scan# 2013

Delta R.T. 0.01 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

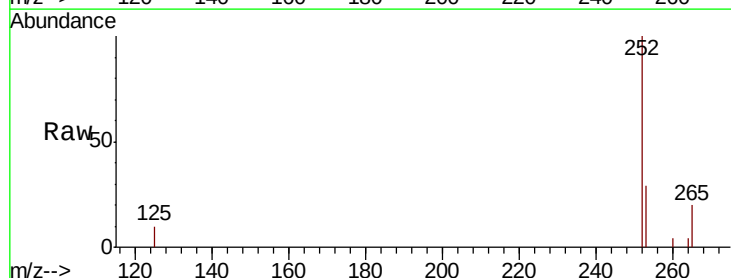
Tgt Ion:252 Resp: 3049

Ion Ratio Lower Upper

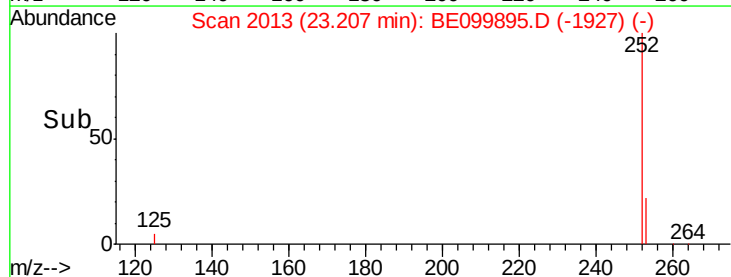
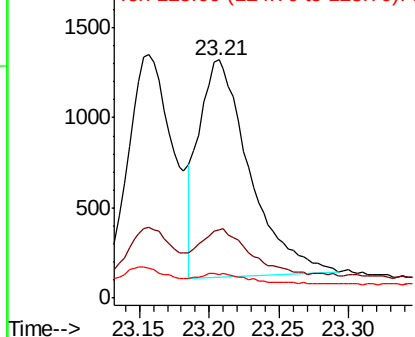
252 100

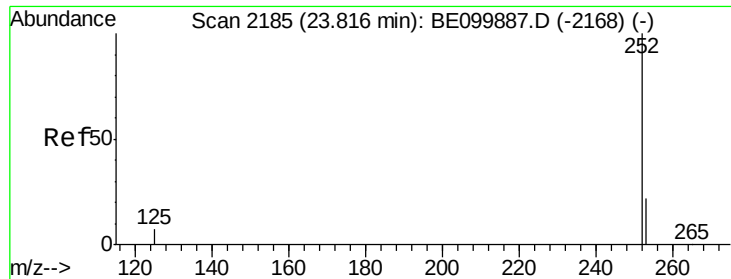
253 28.8 18.6 28.0#

125 10.1 5.4 8.0#



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: 0.121 ng

RT: 23.82 min Scan# 2186

Delta R.T. 0.01 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

Instrument :

BNA\_E

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019

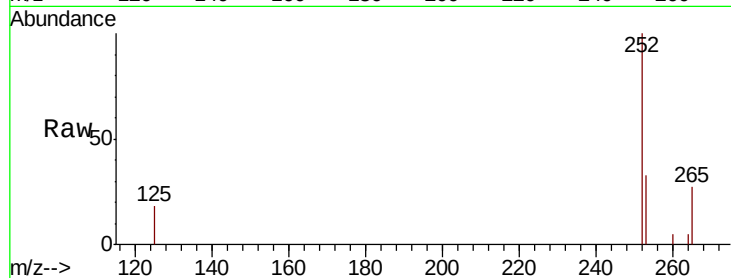
Tot Ion:252 Resp: 3111

Ion Ratio Lower Upper

252 100

253 32.5 19.6 29.4#

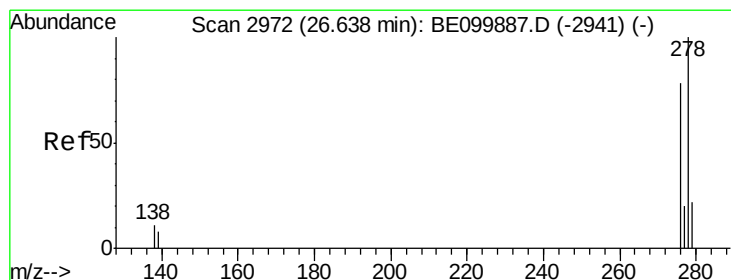
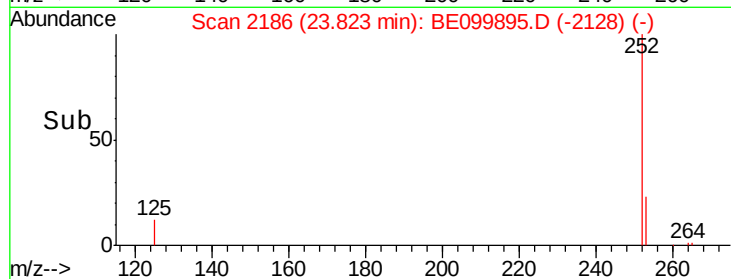
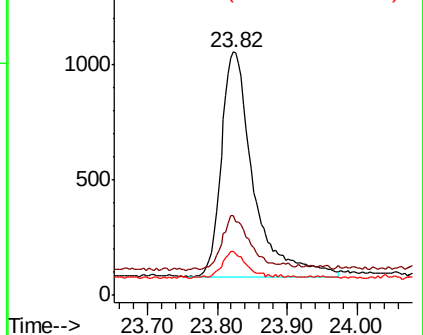
125 18.0 6.6 10.0#



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: 0.107 ng

RT: 26.66 min Scan# 2978

Delta R.T. 0.02 min

Lab File: BE099895.D

Acq: 10 Jun 2019 18:08

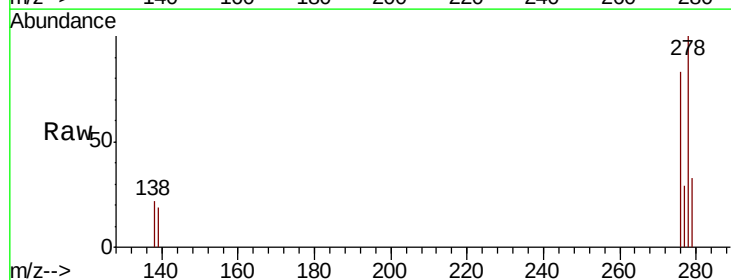
Tgt Ion:278 Resp: 2759

Ion Ratio Lower Upper

278 100

139 18.6 7.8 11.8#

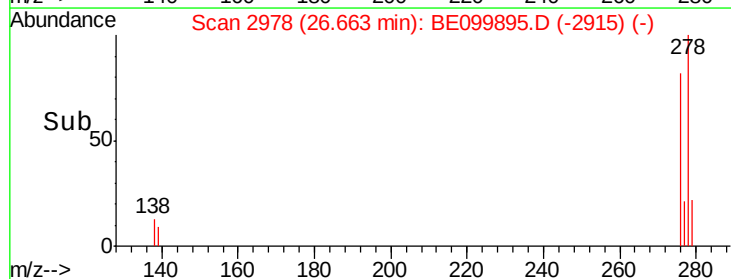
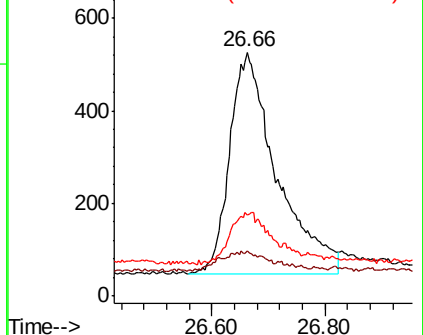
279 33.5 20.0 30.0#

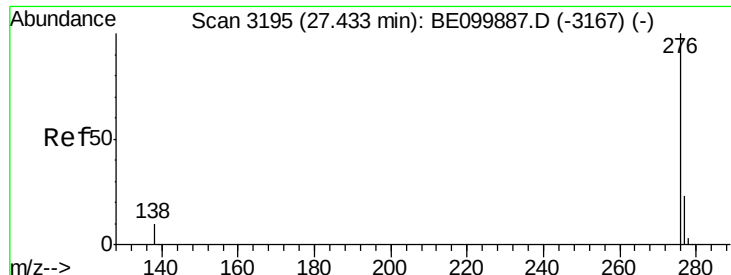


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.117 ng

RT: 27.45 min Scan# 3198

Delta R.T. 0.01 min

Lab File: BE099895.D

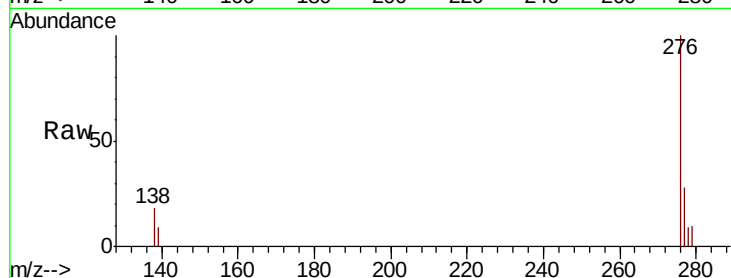
Acq: 10 Jun 2019 18:08

Instrument :

BNA\_E

ClientSampleId :

LOD-MDL-SOIL-01-QT2-2019



Tot Ion: 276 Resp: 3106

Ion Ratio Lower Upper

276 100

277 28.2 19.5 29.3

138 18.0 9.5 14.3

