

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE061019\  
 Data File : BE099897.D  
 Acq On : 10 Jun 2019 19:20  
 Operator : JU/SJ  
 Sample : K2241-07  
 Misc : MDL-SOIL-0.12PPM  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MDL-MDL-SOIL-03-QT2-2019

Quant Time: Jun 11 05:58:02 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  | 612      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.61 | 136  | 2170     | 0.40 | ng    | 0.01     |
| 13) Acenaphthene-d10      | 14.47 | 164  | 1723     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.23 | 188  | 5953     | 0.40 | ng    | 0.01     |
| 27) Chrysene-d12          | 21.40 | 240  | 7947     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.93 | 264  | 9218     | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| 4) 2-Fluorophenol           | 5.36  | 112 | 1471  | 0.89 | ng | 0.00 |
| 5) Phenol-d6                | 6.96  | 99  | 1821  | 0.86 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.98  | 82  | 1258  | 0.61 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152 | 1527  | 0.40 | ng | 0.01 |
| 14) 2,4,6-Tribromophenol    | 15.98 | 330 | 929   | 0.73 | ng | 0.01 |
| 15) 2-Fluorobiphenyl        | 13.10 | 172 | 4511  | 0.69 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.25 | 212 | 32092 | 0.37 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.85 | 244 | 12748 | 0.89 | ng | 0.00 |

#### Target Compounds

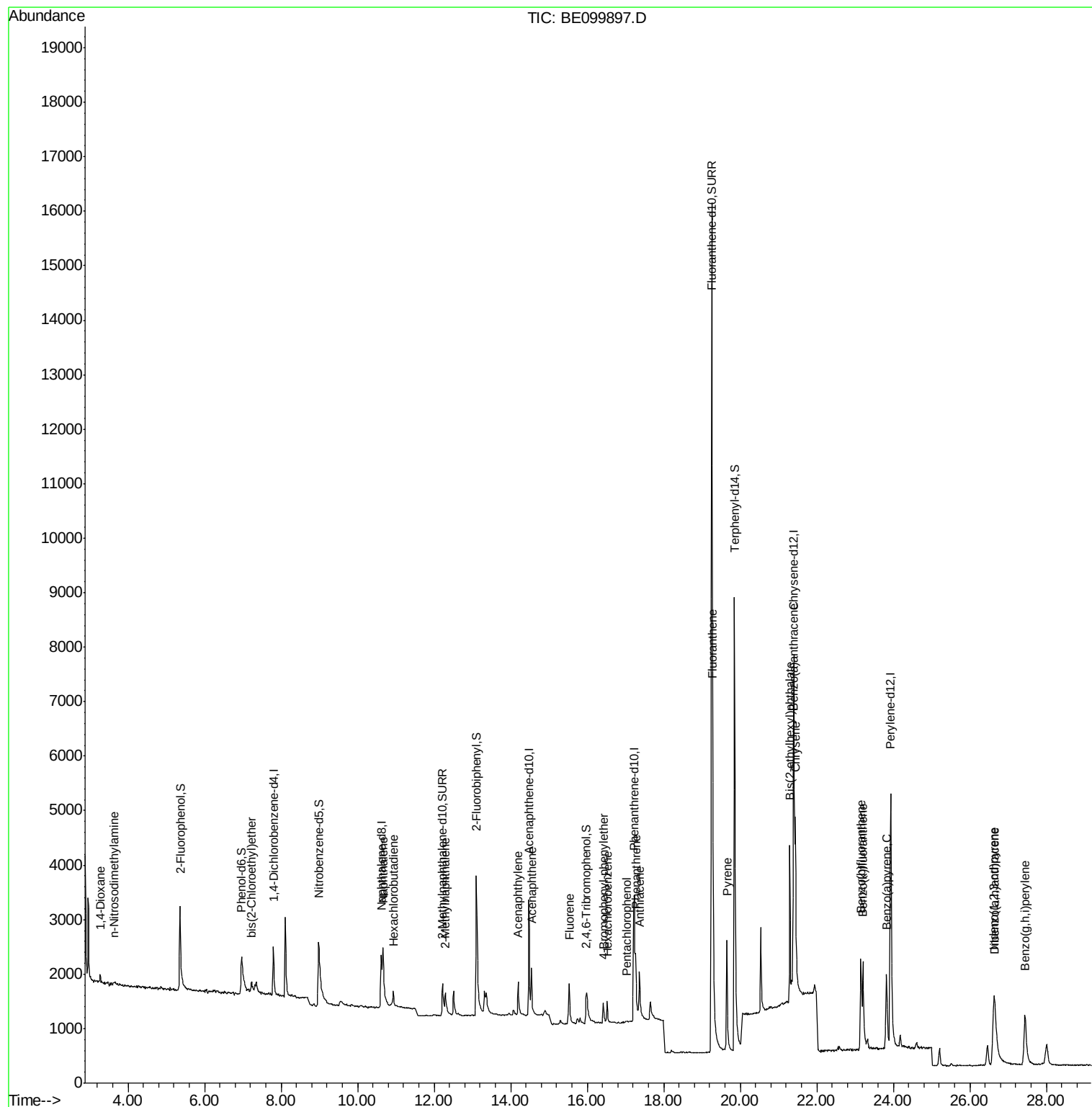
|                                |       |     |      |       |    | Qvalue |
|--------------------------------|-------|-----|------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.27  | 88  | 138  | 0.152 | ng | # 85   |
| 3) n-Nitrosodimethylamine      | 3.64  | 42  | 76   | 0.146 | ng | # 100  |
| 6) bis(2-Chloroethyl)ether     | 7.23  | 93  | 230  | 0.132 | ng | # 61   |
| 9) Naphthalene                 | 10.67 | 128 | 2803 | 0.120 | ng | # 91   |
| 10) Hexachlorobutadiene        | 10.93 | 225 | 225  | 0.126 | ng | # 98   |
| 12) 2-Methylnaphthalene        | 12.29 | 142 | 450  | 0.118 | ng | # 94   |
| 16) Acenaphthylene             | 14.20 | 152 | 975  | 0.114 | ng | # 96   |
| 17) Acenaphthene               | 14.54 | 154 | 523  | 0.112 | ng | # 99   |
| 18) Fluorene                   | 15.53 | 166 | 839  | 0.120 | ng | # 96   |
| 20) 4-Bromophenyl-phenylether  | 16.42 | 248 | 388  | 0.115 | ng | # 90   |
| 21) Hexachlorobenzene          | 16.52 | 284 | 420  | 0.122 | ng | # 96   |
| 22) Pentachlorophenol          | 17.04 | 266 | 45   | 0.327 | ng | # 84   |
| 23) Phenanthrene               | 17.27 | 178 | 1549 | 0.107 | ng | # 100  |
| 24) Anthracene                 | 17.36 | 178 | 1223 | 0.092 | ng | # 98   |
| 26) Fluoranthene               | 19.28 | 202 | 2783 | 0.113 | ng | # 99   |
| 28) Pyrene                     | 19.65 | 202 | 2787 | 0.133 | ng | # 100  |
| 30) Benzo(a)anthracene         | 21.39 | 228 | 2620 | 0.110 | ng | # 95   |
| 31) Chrysene                   | 21.44 | 228 | 3143 | 0.128 | ng | # 96   |
| 32) Bis(2-ethylhexyl)phthalate | 21.29 | 149 | 3954 | 0.116 | ng | # 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.63 | 276 | 3541 | 0.122 | ng | # 98   |
| 35) Benzo(b)fluoranthene       | 23.15 | 252 | 2785 | 0.108 | ng | # 86   |
| 36) Benzo(k)fluoranthene       | 23.20 | 252 | 3275 | 0.121 | ng | # 90   |
| 37) Benzo(a)pyrene             | 23.82 | 252 | 3066 | 0.120 | ng | # 83   |
| 38) Dibenzo(a,h)anthracene     | 26.66 | 278 | 2725 | 0.106 | ng | # 79   |
| 39) Benzo(g,h,i)perylene       | 27.44 | 276 | 3129 | 0.118 | ng | # 87   |

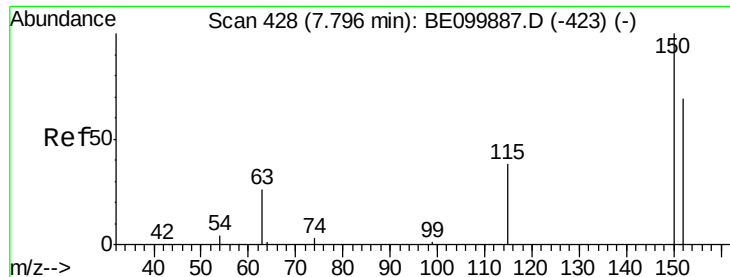
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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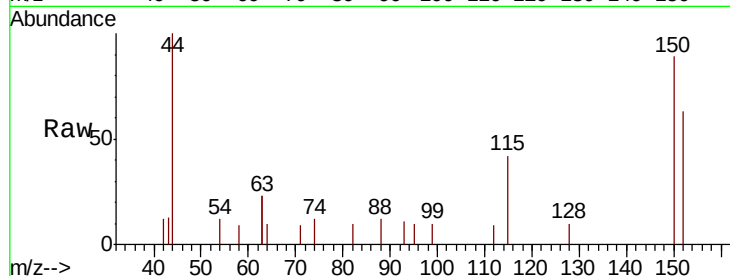


#1

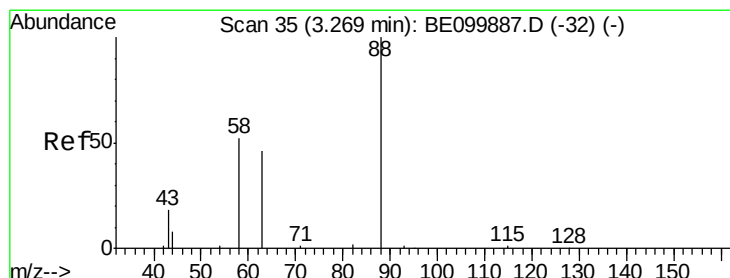
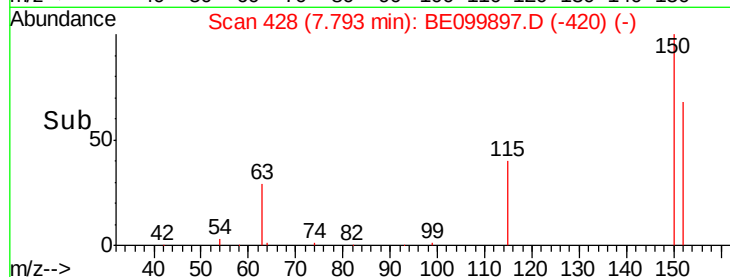
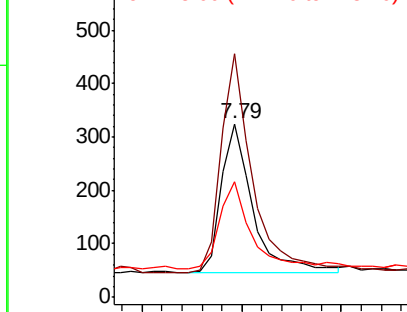
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.79 min Scan# 428  
Delta R.T. -0.00 min  
Lab File: BE099897.D  
Acq: 10 Jun 2019 19:20

Instrument :  
BNA\_E  
ClientSampleId :  
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 152 Resp: 612  
Ion Ratio Lower Upper  
152 100  
150 140.7 111.0 166.6  
115 67.0 50.7 76.1



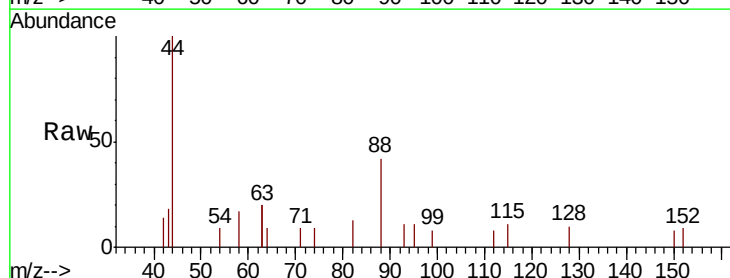
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



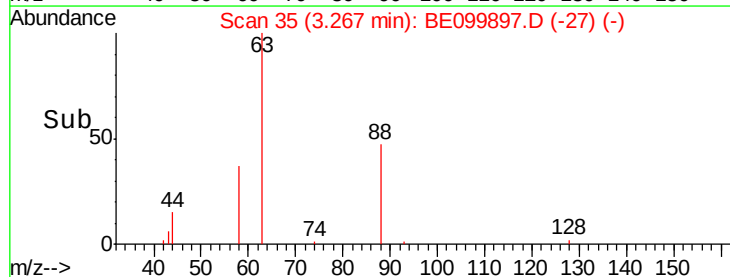
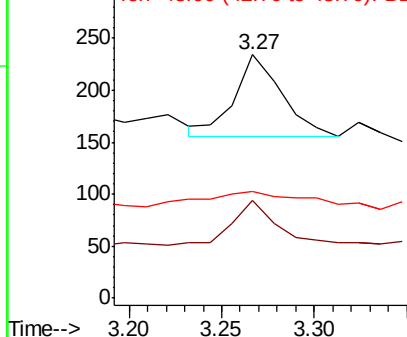
#2

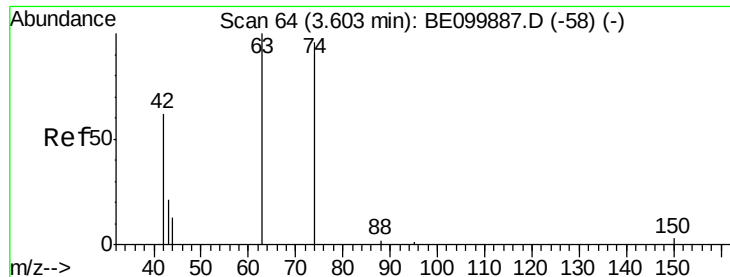
1,4-Dioxane  
Concen: 0.152 ng  
RT: 3.27 min Scan# 35  
Delta R.T. -0.00 min  
Lab File: BE099897.D  
Acq: 10 Jun 2019 19:20

Tgt Ion: 88 Resp: 138  
Ion Ratio Lower Upper  
88 100  
58 53.6 48.8 73.2  
43 38.4 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: 0.146 ng

RT: 3.64 min Scan# 67

Delta R.T. 0.03 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

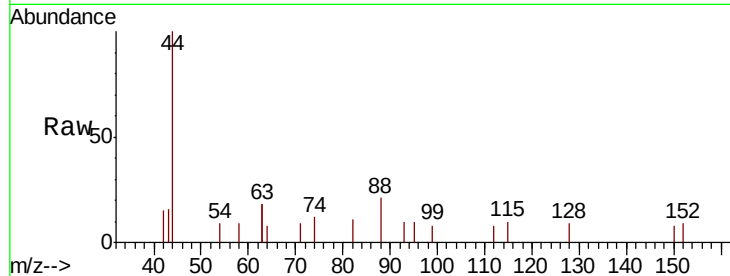
Tgt Ion: 42 Resp: 76

Ion Ratio Lower Upper

42 100

74 72.4 0.0 0.0#

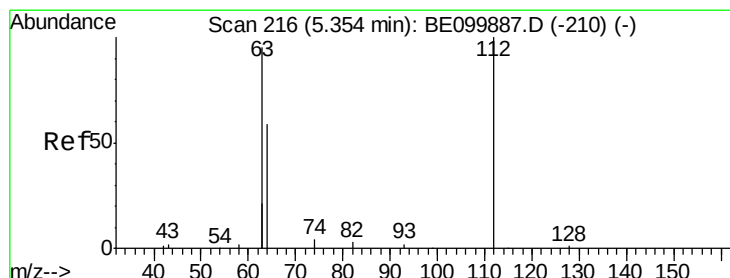
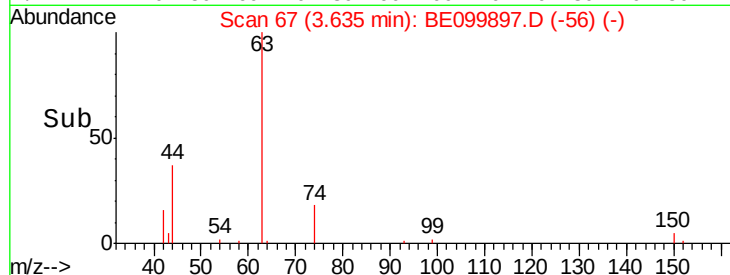
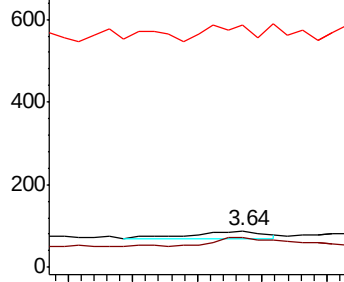
44 0.0 0.0 0.0



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: 0.890 ng

RT: 5.36 min Scan# 217

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

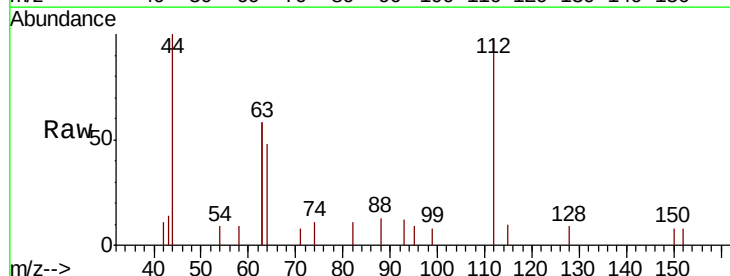
Tgt Ion: 112 Resp: 1471

Ion Ratio Lower Upper

112 100

64 51.8 44.1 66.1

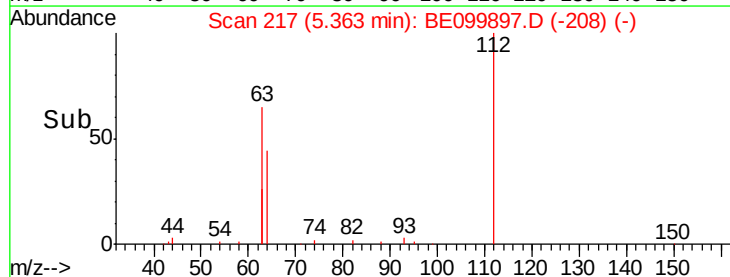
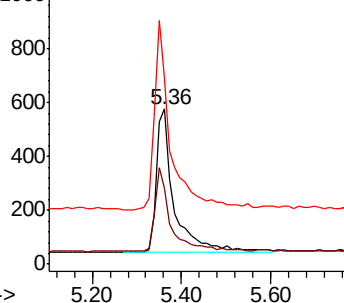
63 124.0 87.8 131.6

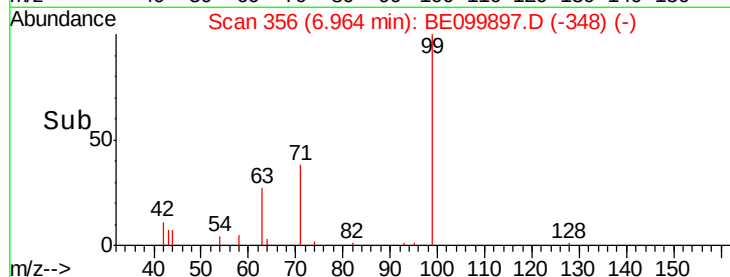
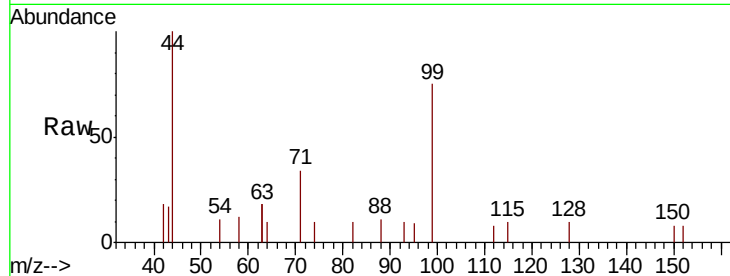
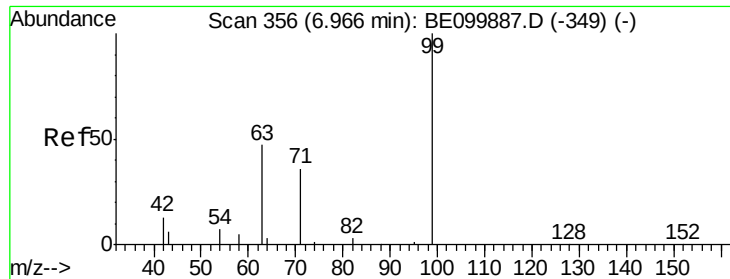


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.856 ng

RT: 6.96 min Scan# 356

Delta R.T. -0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

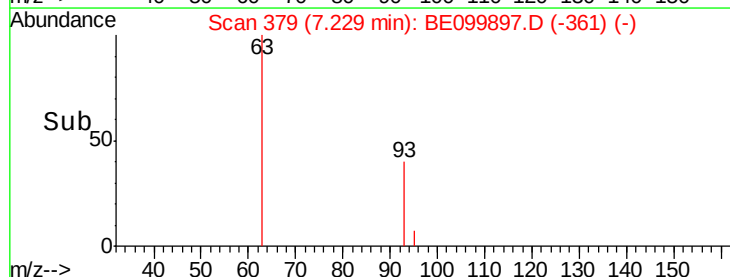
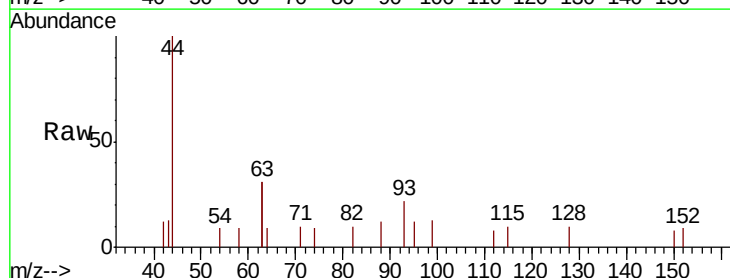
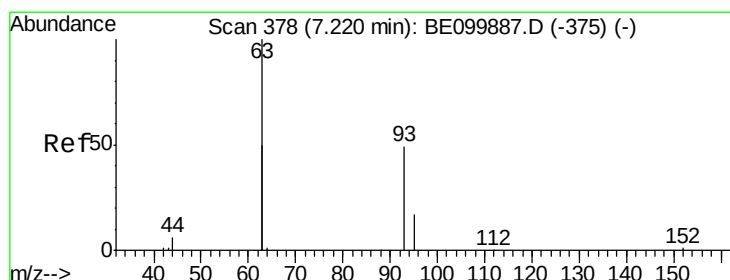
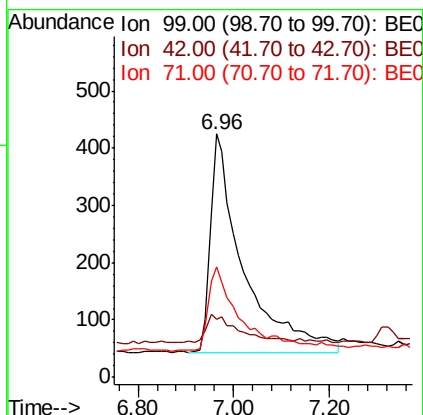
Tgt Ion: 99 Resp: 1821

Ion Ratio Lower Upper

99 100

42 13.1 15.9 23.9#

71 36.2 34.6 52.0



#6

bis(2-Chloroethyl)ether

Concen: 0.132 ng

RT: 7.23 min Scan# 379

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

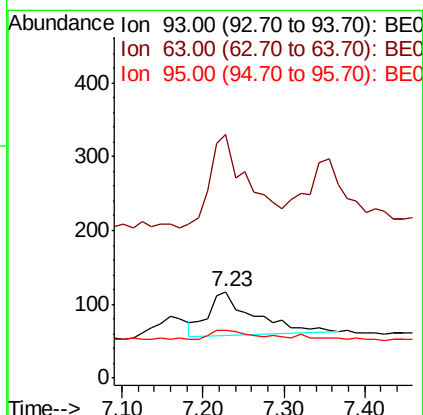
Tgt Ion: 93 Resp: 230

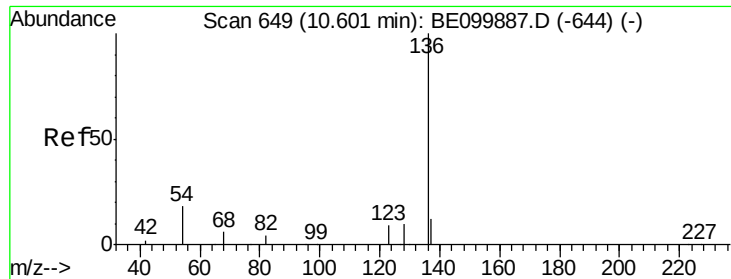
Ion Ratio Lower Upper

93 100

63 181.3 202.8 304.2#

95 17.8 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: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 136 Resp: 2170

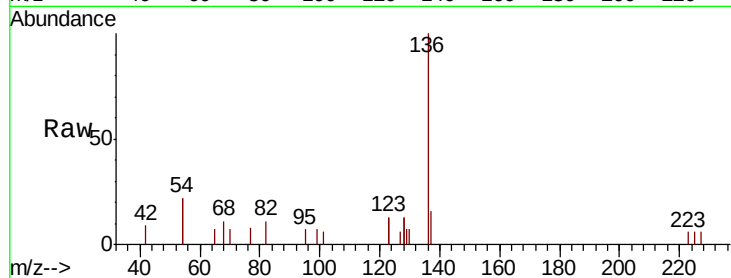
Ion Ratio Lower Upper

136 100

137 15.7 12.3 18.5

54 44.0 28.2 42.4#

68 11.4 7.8 11.8

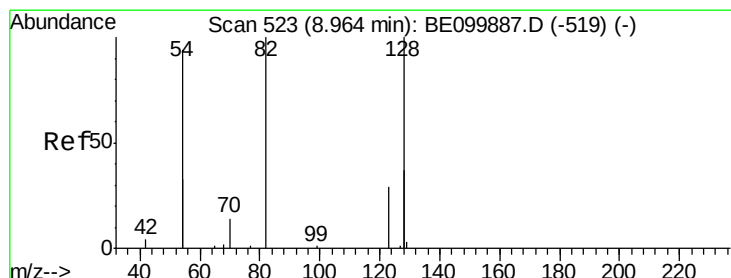
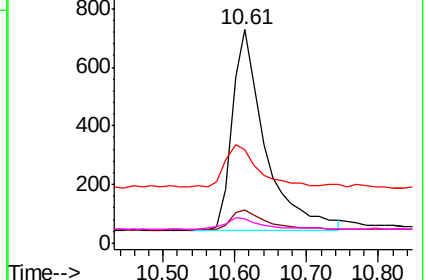
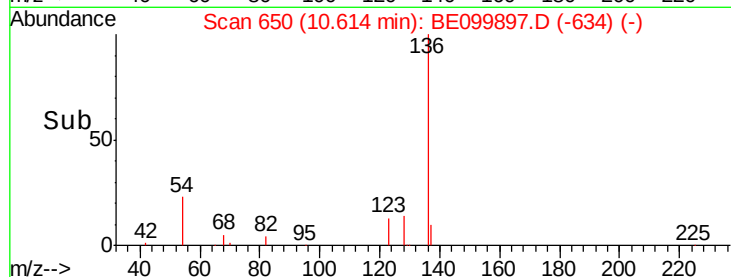


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.612 ng

RT: 8.98 min Scan# 524

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

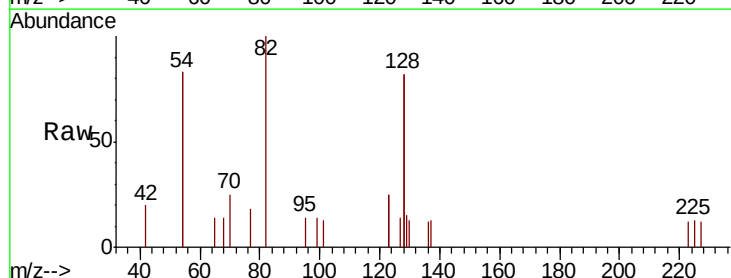
Tgt Ion: 82 Resp: 1258

Ion Ratio Lower Upper

82 100

128 164.0 137.3 205.9

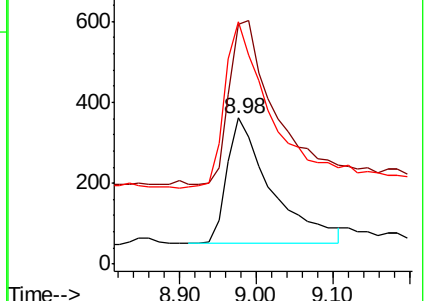
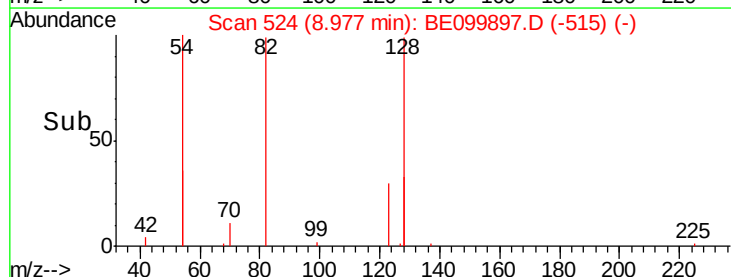
54 166.2 129.7 194.5

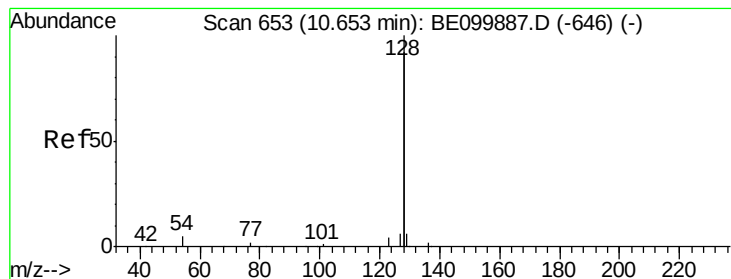


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.120 ng

RT: 10.67 min Scan# 654

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

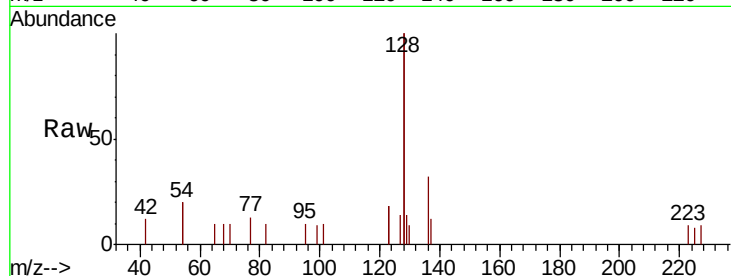
Tgt Ion:128 Resp: 2803

Ion Ratio Lower Upper

128 100

129 6.9 3.0 4.6#

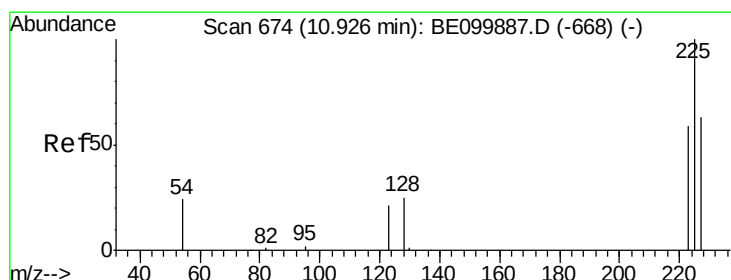
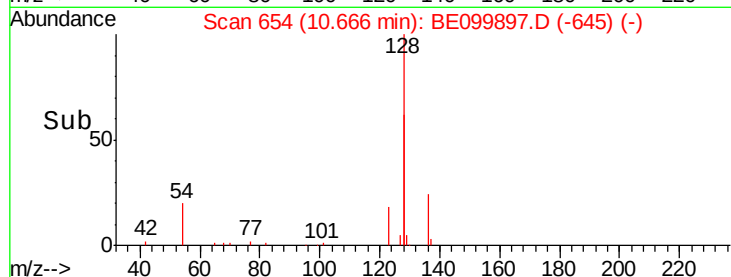
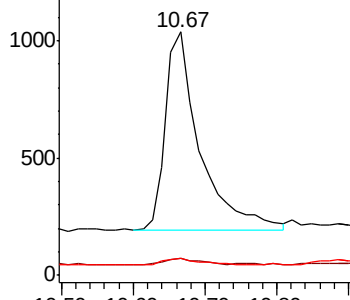
127 6.9 3.4 5.0#



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: 0.126 ng

RT: 10.93 min Scan# 674

Delta R.T. -0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

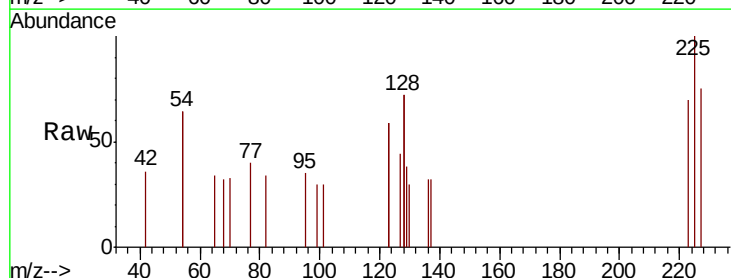
Tgt Ion:225 Resp: 225

Ion Ratio Lower Upper

225 100

223 64.0 51.6 77.4

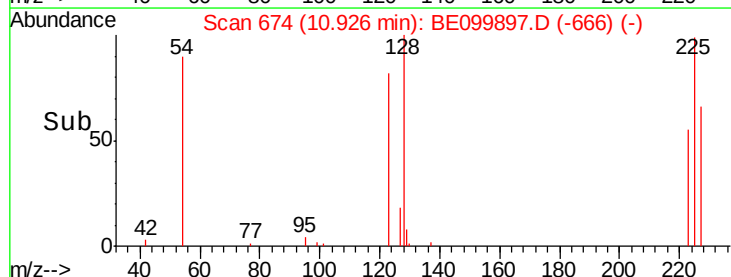
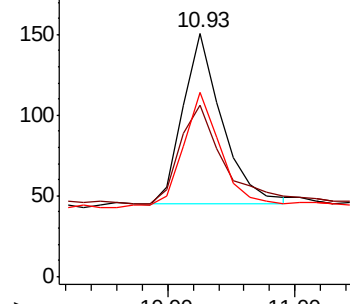
227 65.3 50.6 76.0

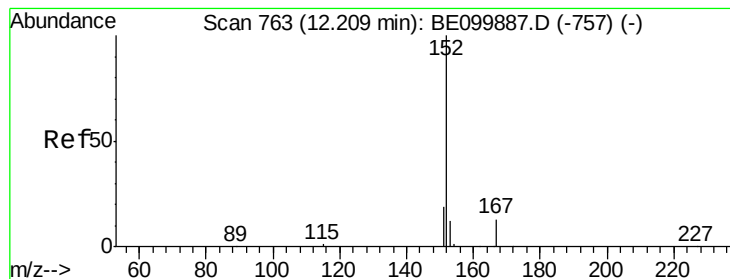


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.404 ng

RT: 12.22 min Scan# 764

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

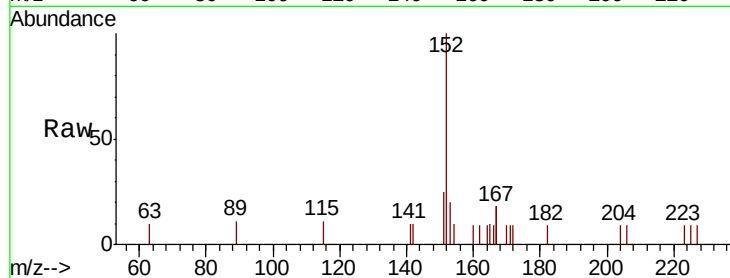
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion:152 Resp: 1527

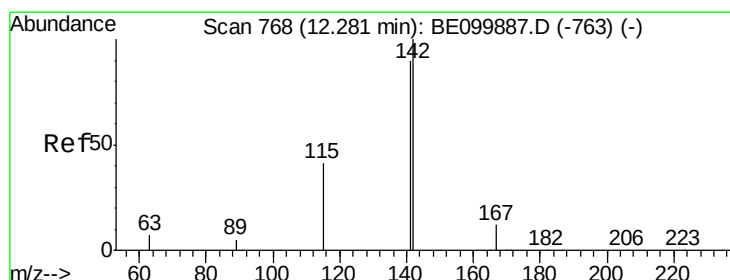
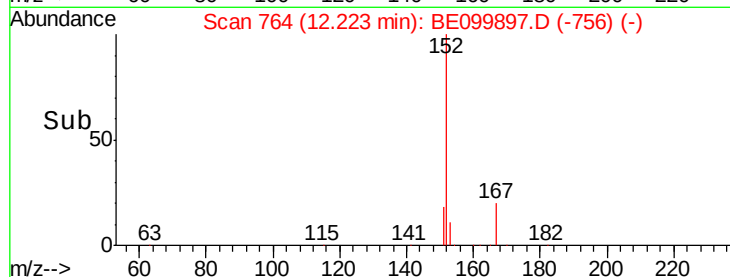
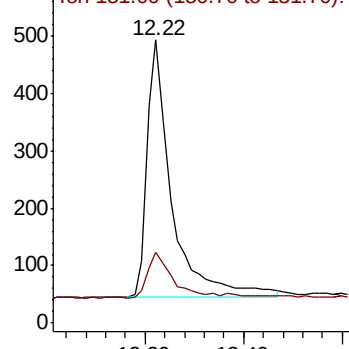
Ion Ratio Lower Upper

152 100

151 18.0 15.2 22.8



Abundance Ion 152.00 (151.70 to 152.70): E



#12

2-Methylnaphthalene

Concen: 0.118 ng

RT: 12.29 min Scan# 769

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

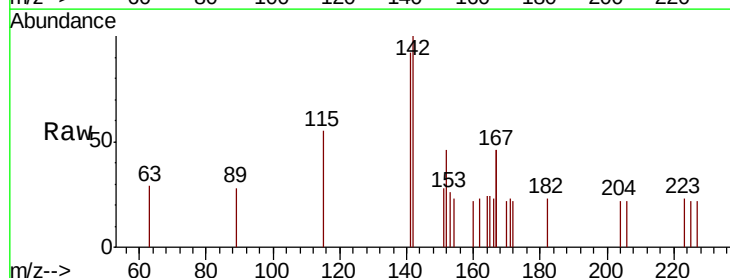
Tgt Ion:142 Resp: 450

Ion Ratio Lower Upper

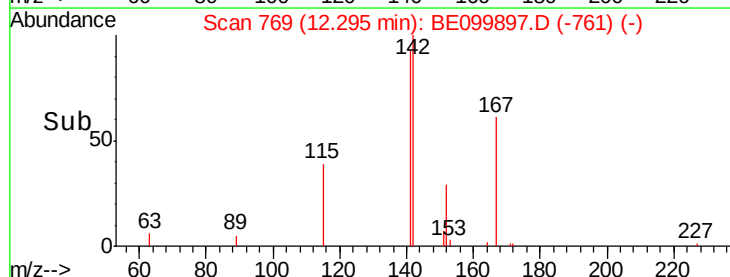
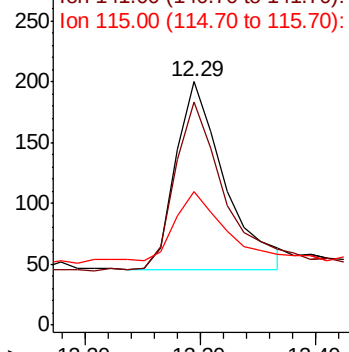
142 100

141 91.5 72.3 108.5

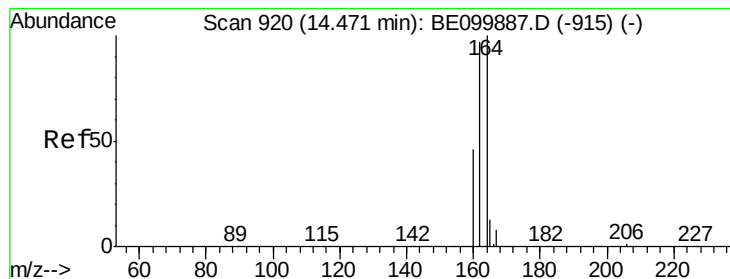
115 55.0 36.4 54.6#



Abundance Ion 142.00 (141.70 to 142.70): E







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.47 min Scan# 920

Delta R.T. -0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

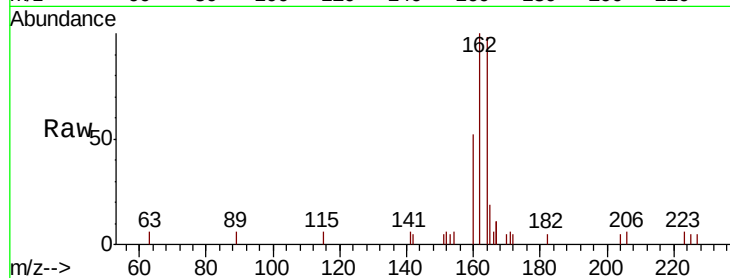
Tgt Ion:164 Resp: 1723

Ion Ratio Lower Upper

164 100

162 102.2 77.8 116.8

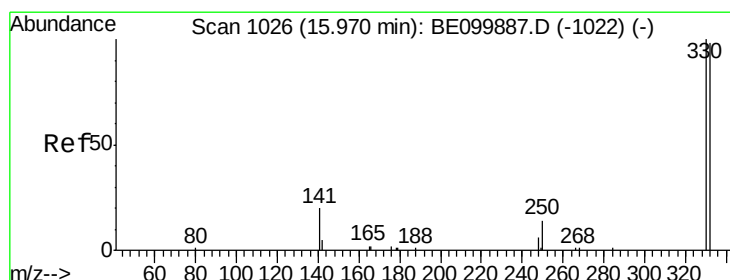
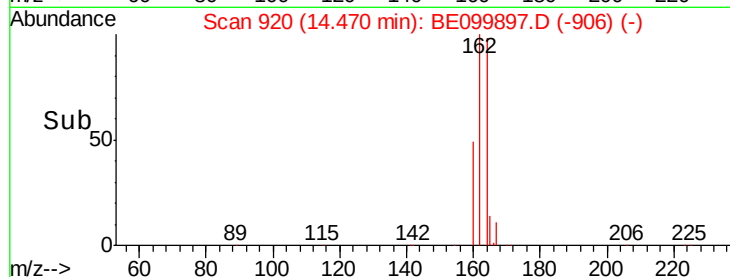
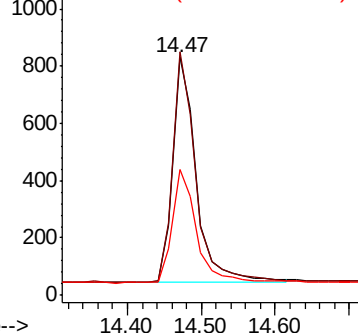
160 53.0 38.2 57.4



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: 0.730 ng

RT: 15.98 min Scan# 1027

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

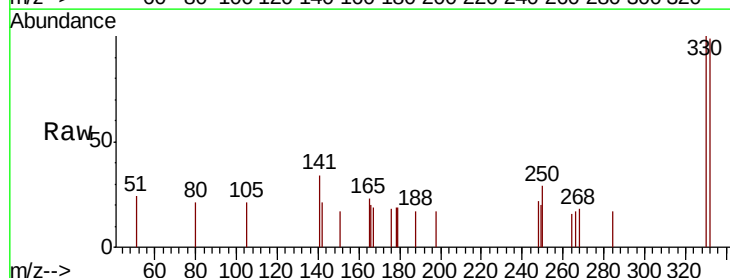
Tgt Ion:330 Resp: 929

Ion Ratio Lower Upper

330 100

332 96.4 76.7 115.1

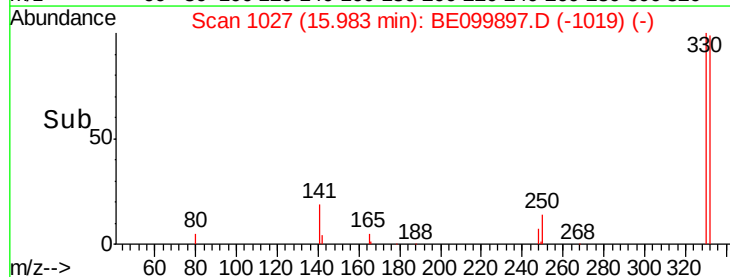
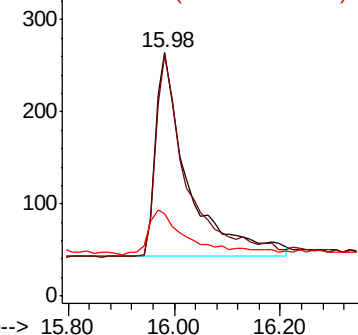
141 27.3 21.0 31.6

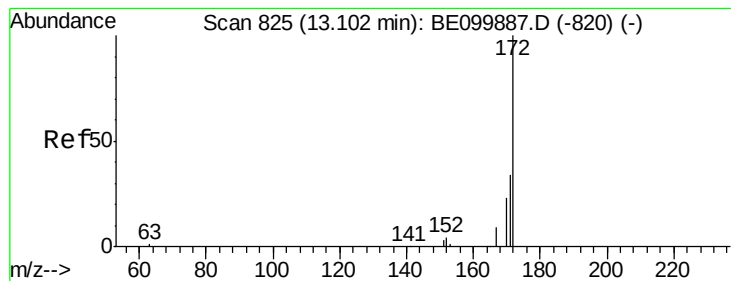


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#15

2-Fluorobiphenyl

Concen: 0.691 ng

RT: 13.10 min Scan# 825

Delta R.T. -0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

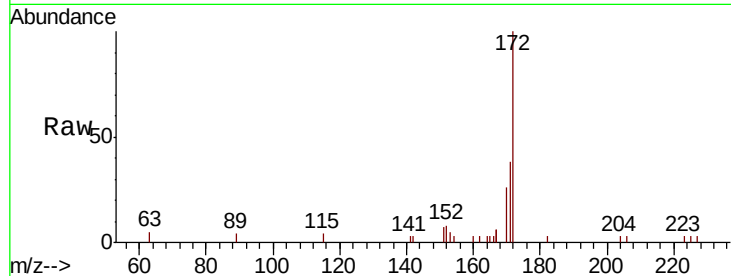
Tgt Ion:172 Resp: 4511

Ion Ratio Lower Upper

172 100

171 38.2 29.2 43.8

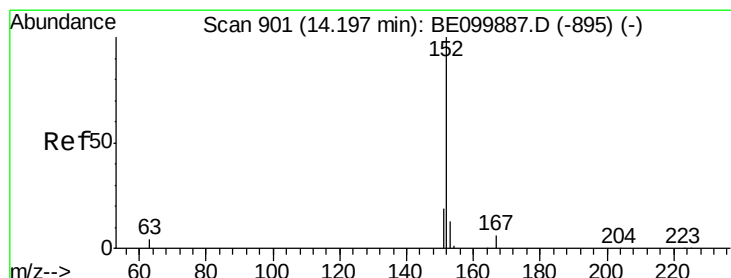
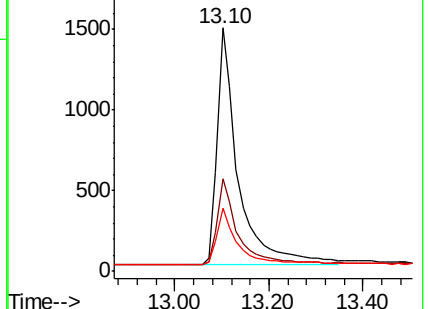
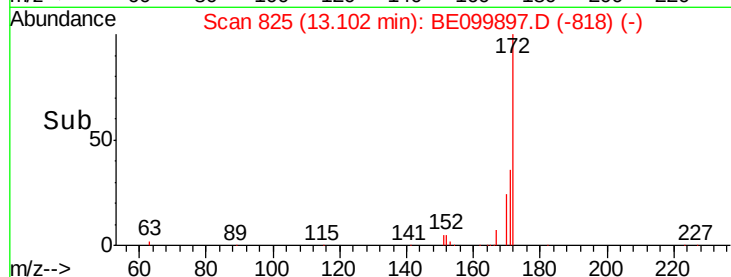
170 25.7 21.2 31.8



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: 0.114 ng

RT: 14.20 min Scan# 901

Delta R.T. -0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

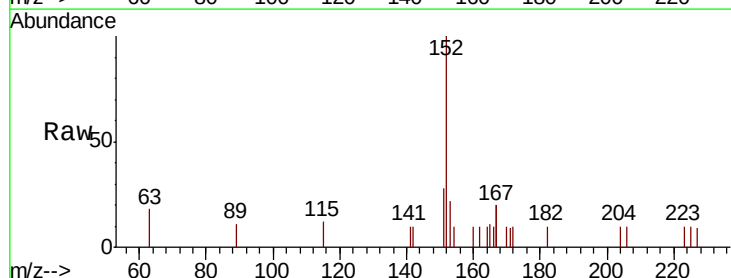
Tgt Ion:152 Resp: 975

Ion Ratio Lower Upper

152 100

151 21.0 15.5 23.3

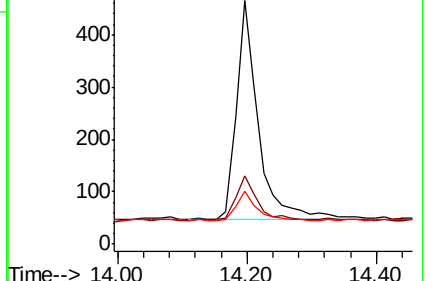
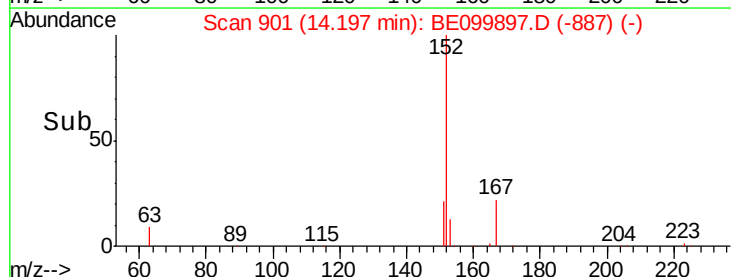
153 14.2 10.2 15.2

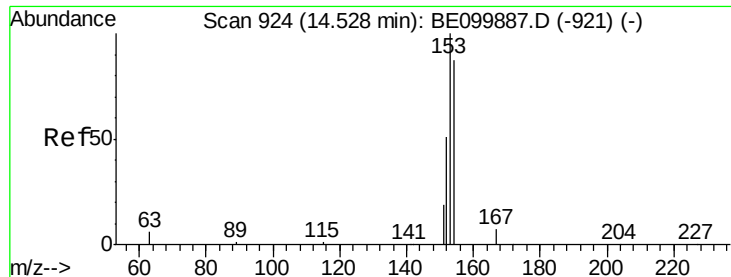


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.112 ng

RT: 14.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

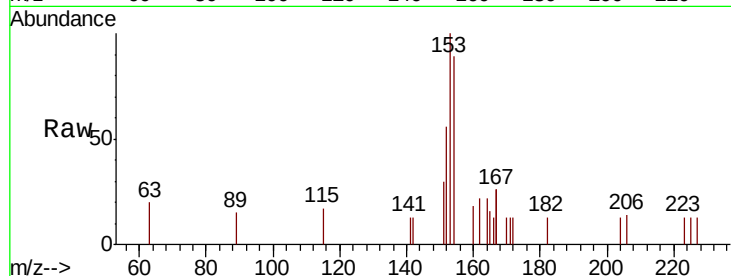
Tgt Ion:154 Resp: 523

Ion Ratio Lower Upper

154 100

153 116.1 93.1 139.7

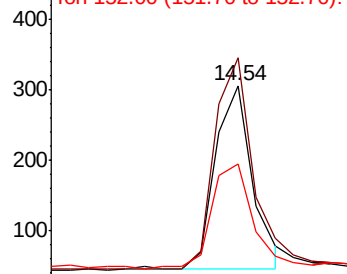
152 61.4 47.0 70.4



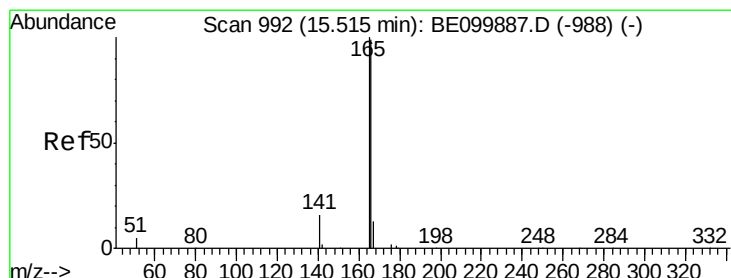
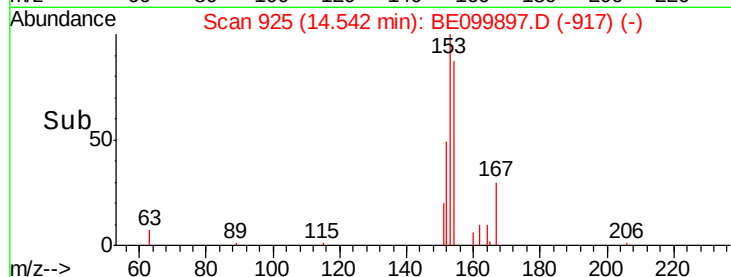
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



Time--> 14.40 14.50 14.60



#18

Fluorene

Concen: 0.120 ng

RT: 15.53 min Scan# 993

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

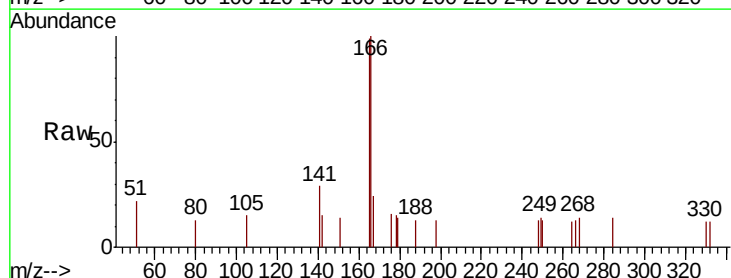
Tgt Ion:166 Resp: 839

Ion Ratio Lower Upper

166 100

165 98.0 81.8 122.8

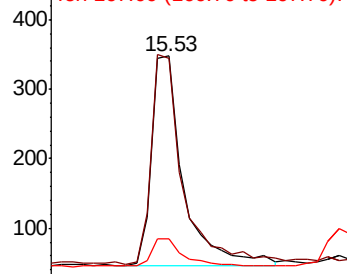
167 14.3 11.2 16.8



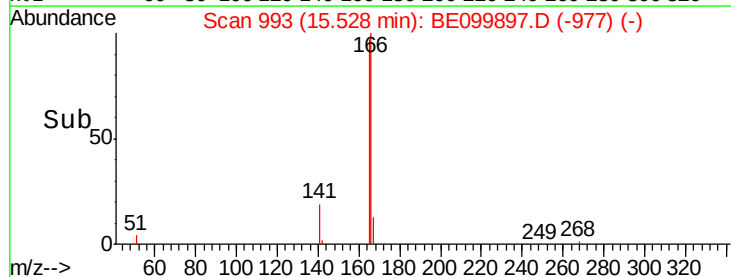
Abundance Ion 166.00 (165.70 to 166.70): E

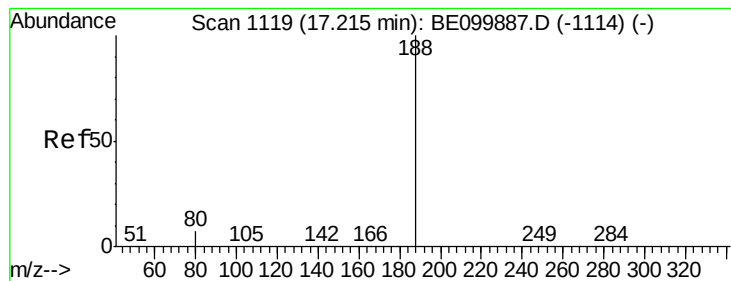
Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time--> 15.40 15.50 15.60 15.70





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.23 min Scan# 1120

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

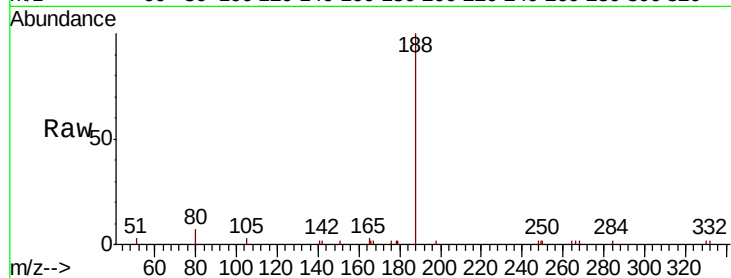
Tgt Ion:188 Resp: 5953

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

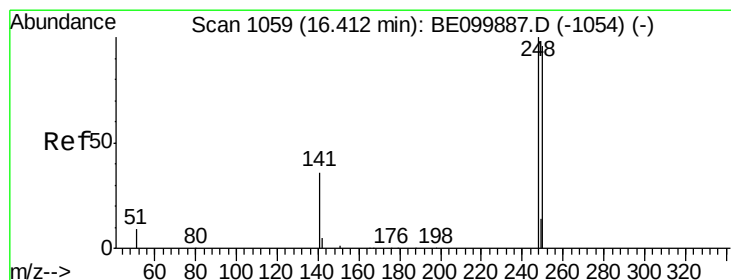
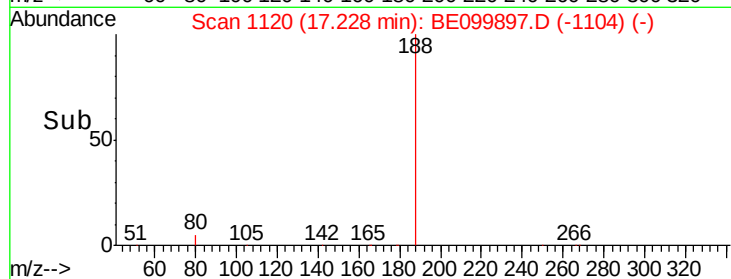
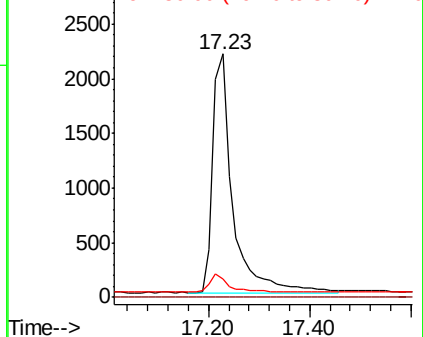
80 7.5 6.4 9.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.115 ng

RT: 16.42 min Scan# 1060

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

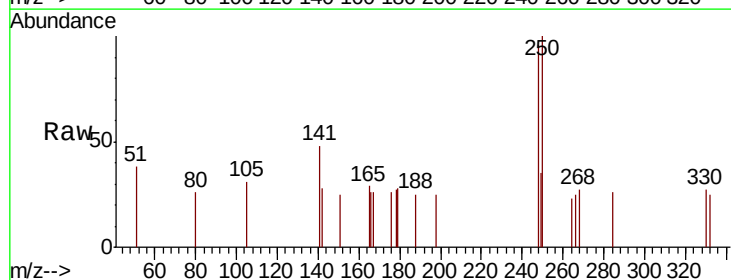
Tgt Ion:248 Resp: 388

Ion Ratio Lower Upper

248 100

250 104.6 77.5 116.3

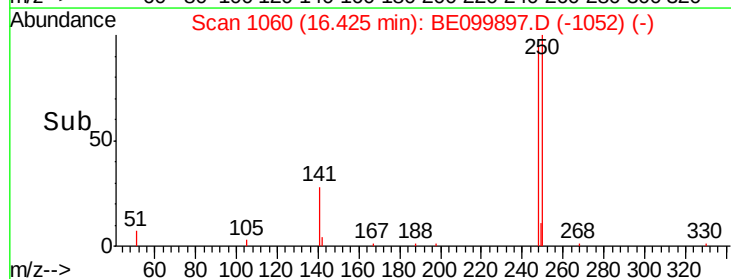
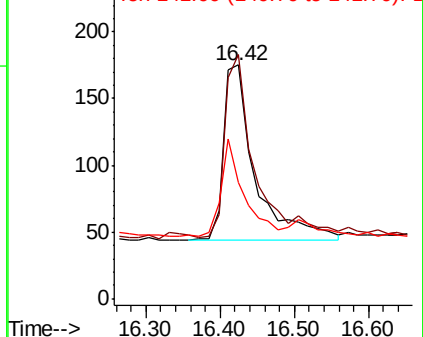
141 49.7 31.8 47.8#

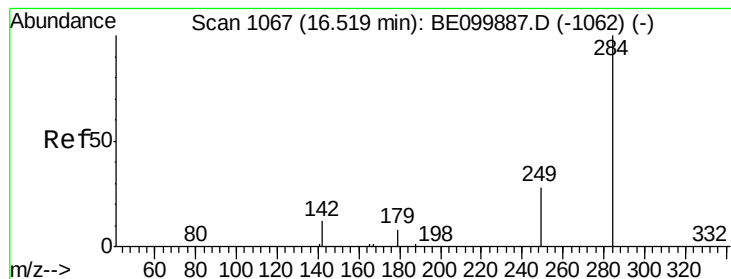


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.122 ng

RT: 16.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

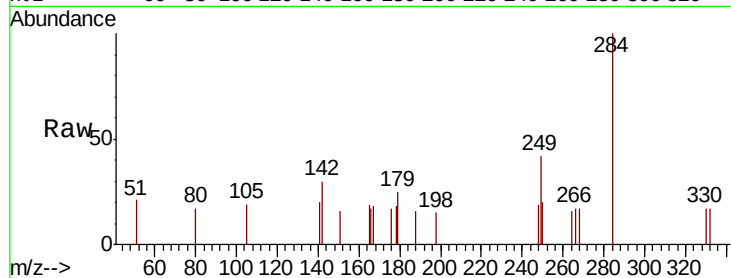
Tgt Ion:284 Resp: 420

Ion Ratio Lower Upper

284 100

142 24.5 18.2 27.4

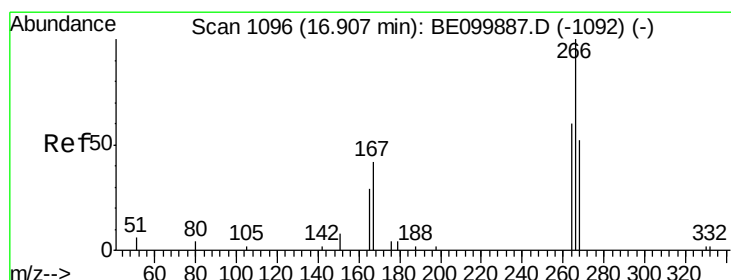
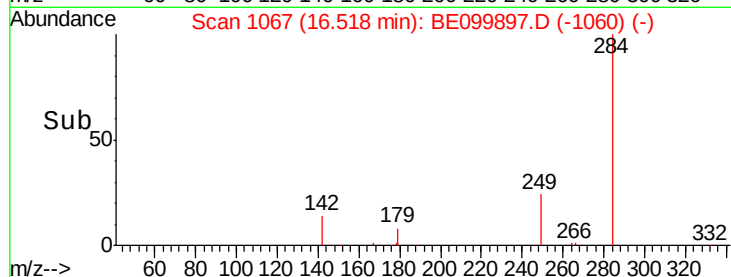
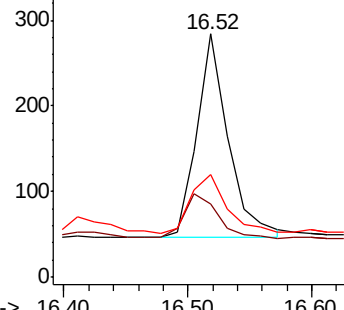
249 33.1 24.6 37.0



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: 0.327 ng

RT: 17.04 min Scan# 1106

Delta R.T. 0.13 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

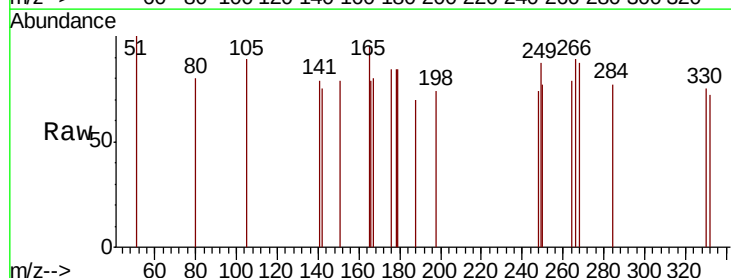
Tgt Ion:266 Resp: 45

Ion Ratio Lower Upper

266 100

264 88.9 62.2 93.2

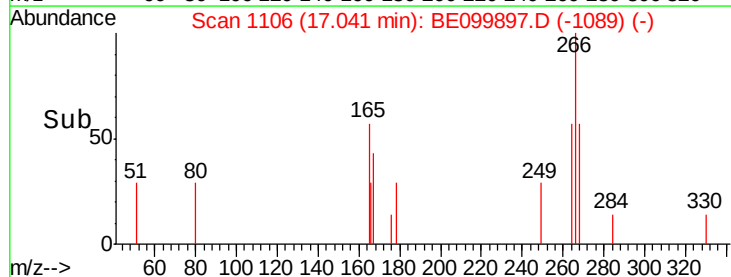
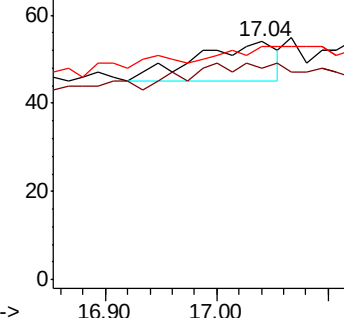
268 98.1 65.5 98.3

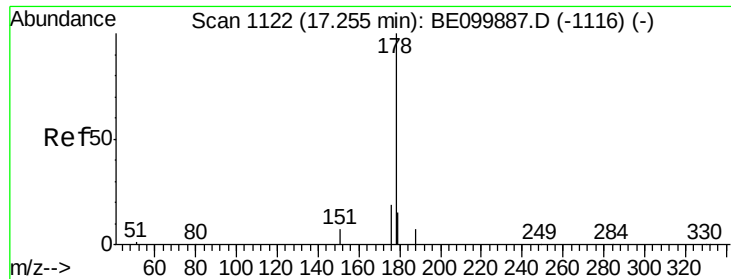


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E

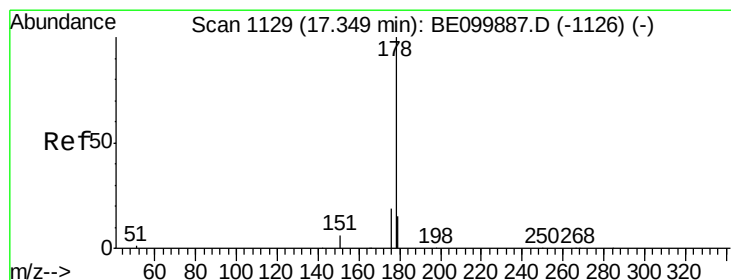
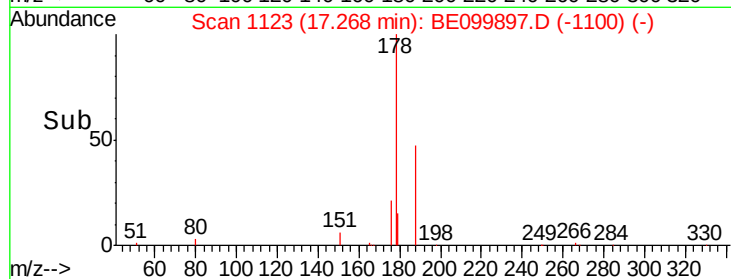
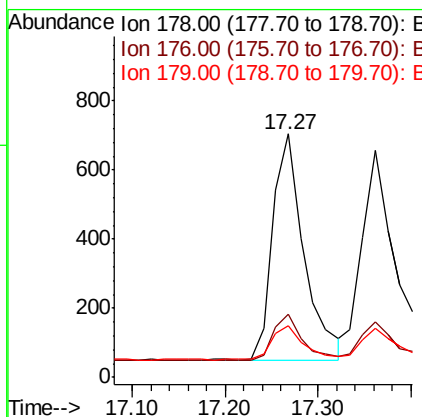
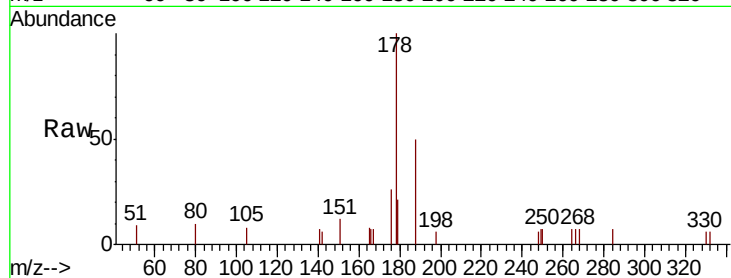




#23  
Phenanthrene  
Concen: 0.107 ng  
RT: 17.27 min Scan# 1123  
Delta R.T. 0.01 min  
Lab File: BE099897.D  
Acq: 10 Jun 2019 19:20

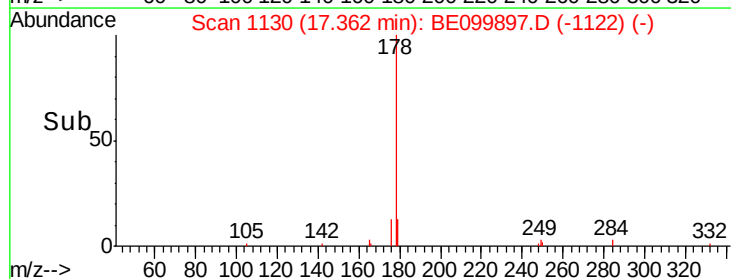
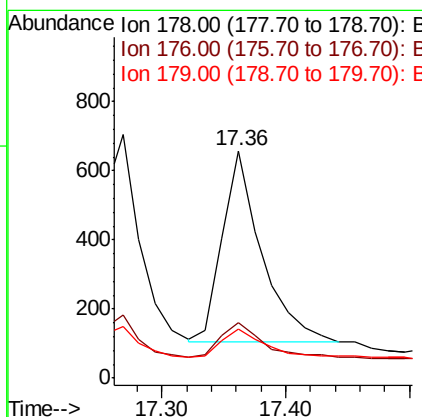
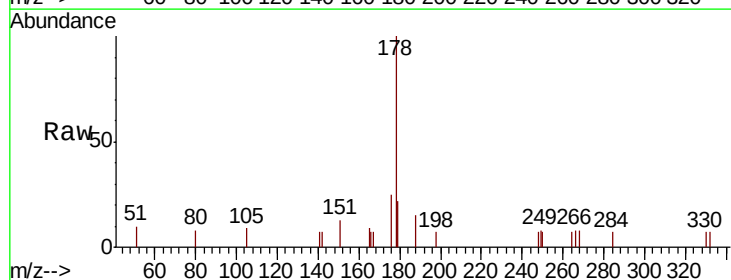
Instrument :  
BNA\_E  
ClientSampleId :  
MDL-MDL-SOIL-03-QT2-2019

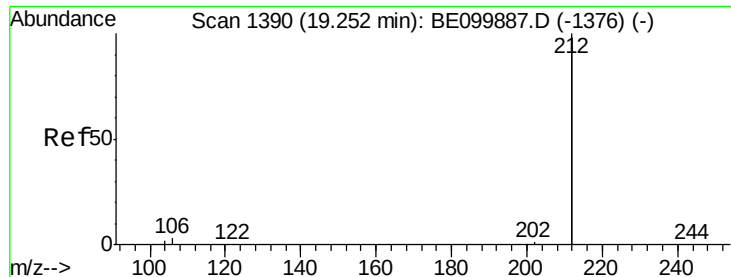
Tgt Ion:178 Resp: 1549  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.8 23.8  
179 15.8 12.4 18.6



#24  
Anthracene  
Concen: 0.092 ng  
RT: 17.36 min Scan# 1130  
Delta R.T. 0.01 min  
Lab File: BE099897.D  
Acq: 10 Jun 2019 19:20

Tgt Ion:178 Resp: 1223  
Ion Ratio Lower Upper  
178 100  
176 19.1 14.6 22.0  
179 14.9 12.3 18.5





#25

Fluoranthene-d10

Concen: 0.370 ng

RT: 19.25 min Scan# 1390

Delta R.T. 0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

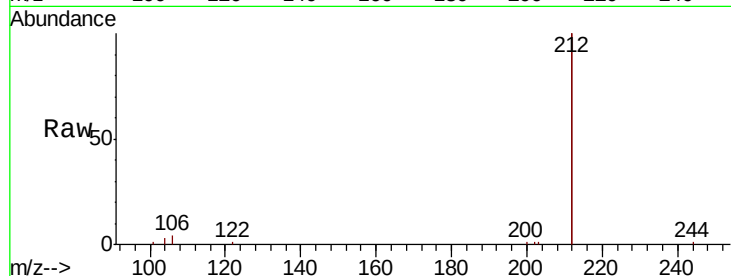
Tgt Ion:212 Resp: 32092

Ion Ratio Lower Upper

212 100

106 1.8 1.4 2.2

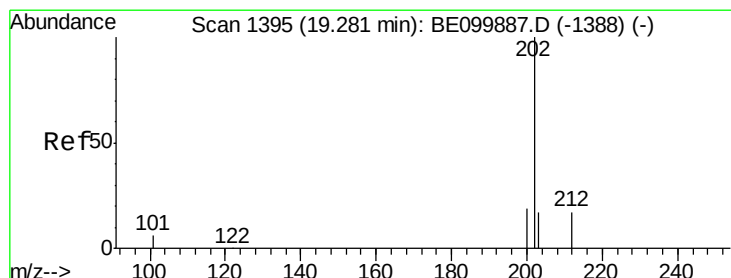
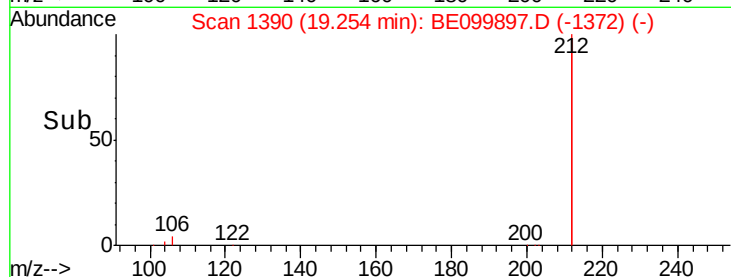
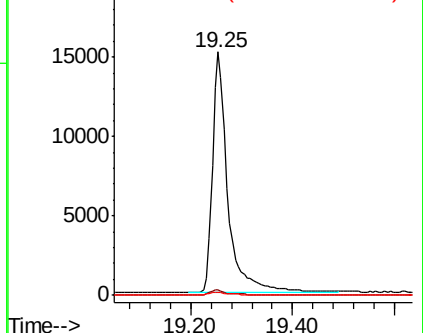
104 1.0 0.9 1.3



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: 0.113 ng

RT: 19.28 min Scan# 1395

Delta R.T. 0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

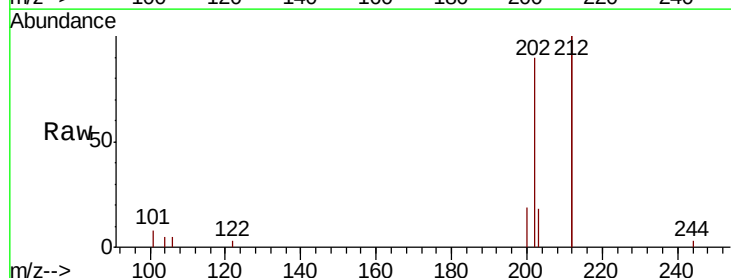
Tgt Ion:202 Resp: 2783

Ion Ratio Lower Upper

202 100

101 6.2 5.4 8.0

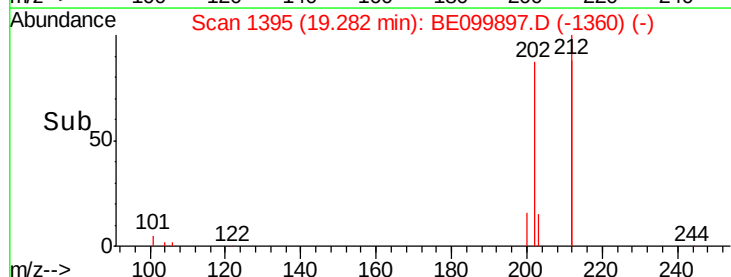
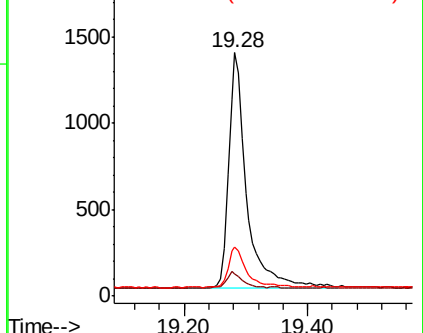
203 17.0 13.2 19.8

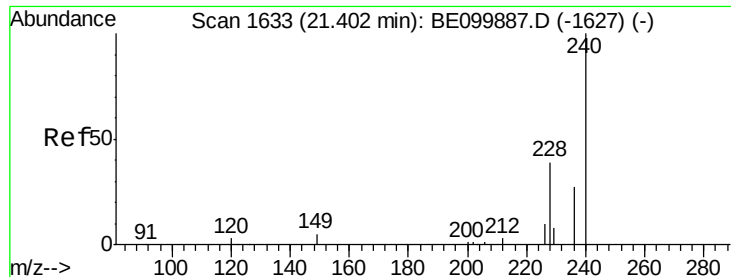


Abundance Ion 202.00 (201.70 to 202.70): E

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# 1633

Delta R.T. 0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

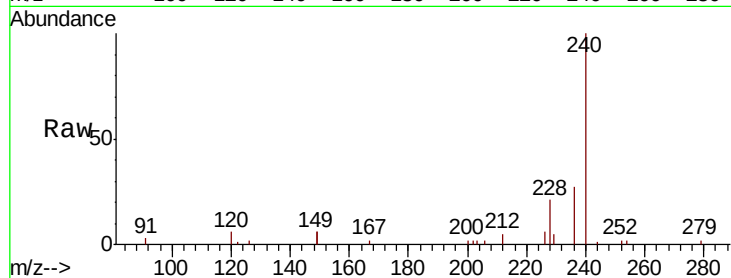
Tgt Ion:240 Resp: 7947

Ion Ratio Lower Upper

240 100

120 5.8 3.8 5.6#

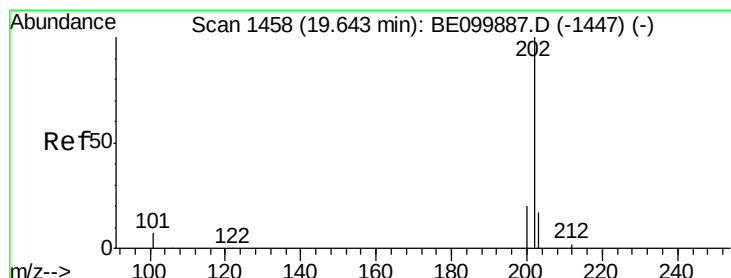
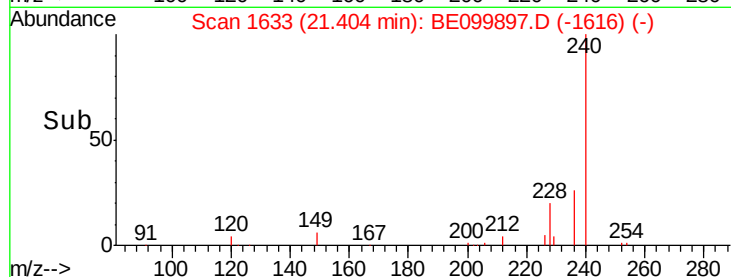
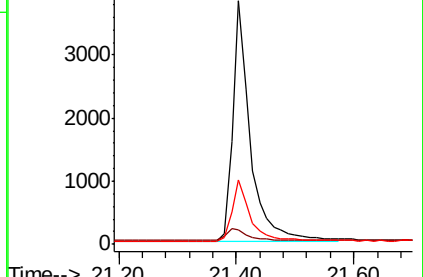
236 26.5 22.0 33.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.133 ng

RT: 19.65 min Scan# 1459

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

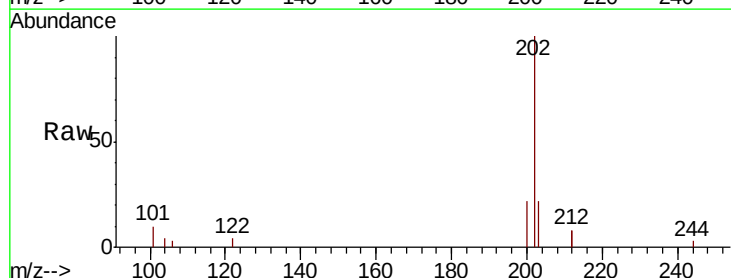
Tgt Ion:202 Resp: 2787

Ion Ratio Lower Upper

202 100

200 19.5 15.5 23.3

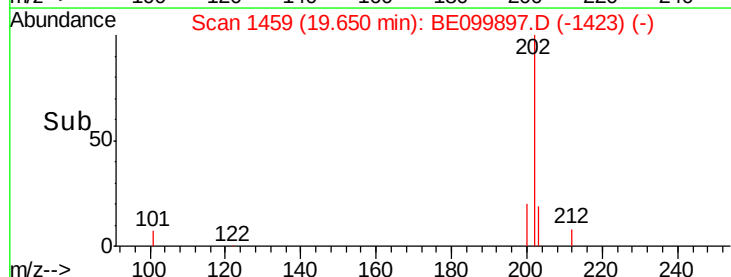
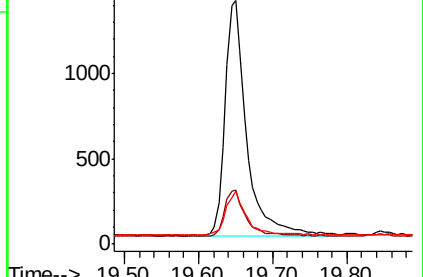
203 17.8 14.0 21.0



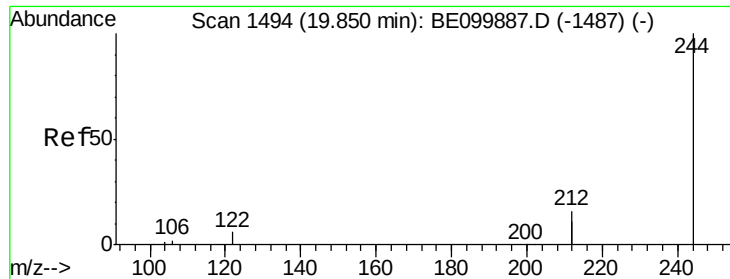
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.891 ng

RT: 19.85 min Scan# 1494

Delta R.T. 0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

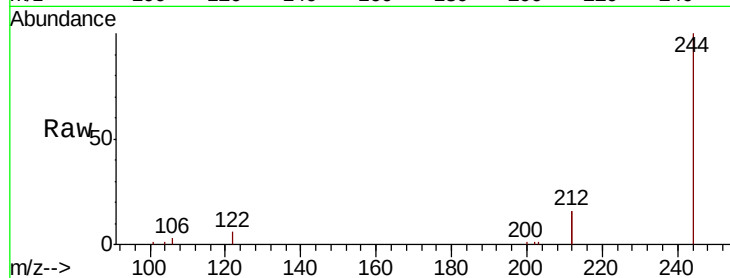
Tgt Ion:244 Resp: 12748

Ion Ratio Lower Upper

244 100

212 31.1 25.7 38.5

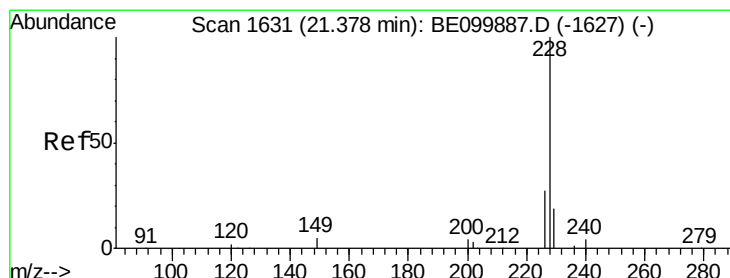
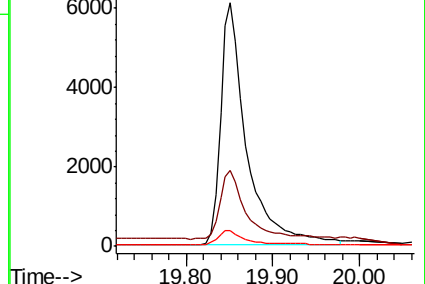
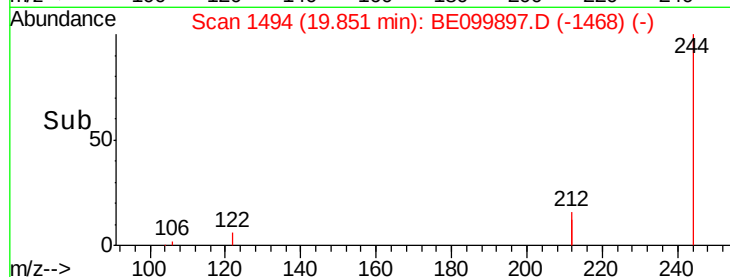
122 6.4 5.5 8.3



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: 0.110 ng

RT: 21.39 min Scan# 1632

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

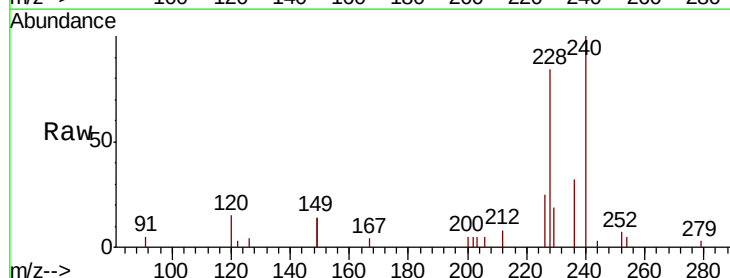
Tgt Ion:228 Resp: 2620

Ion Ratio Lower Upper

228 100

226 30.3 22.5 33.7

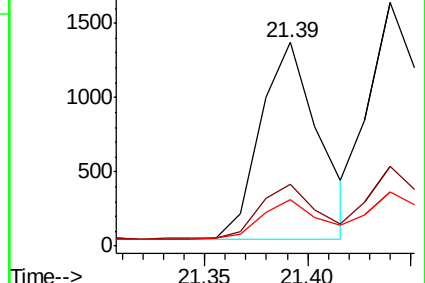
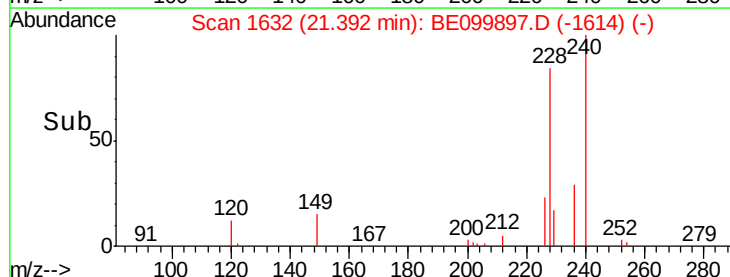
229 23.1 15.9 23.9

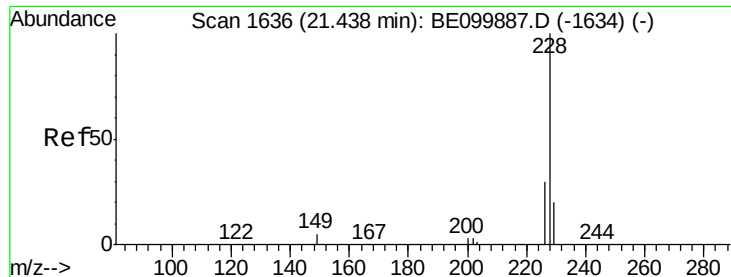


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.128 ng

RT: 21.44 min Scan# 1636

Delta R.T. 0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

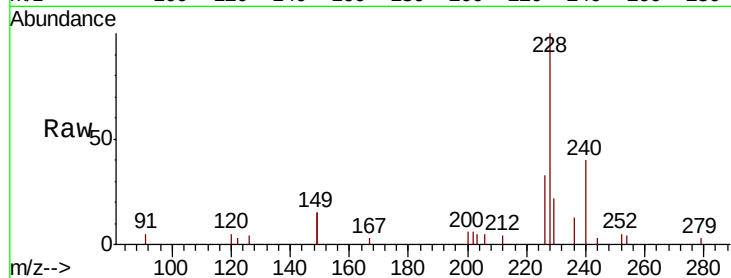
Tgt Ion:228 Resp: 3143

Ion Ratio Lower Upper

228 100

226 32.6 24.1 36.1

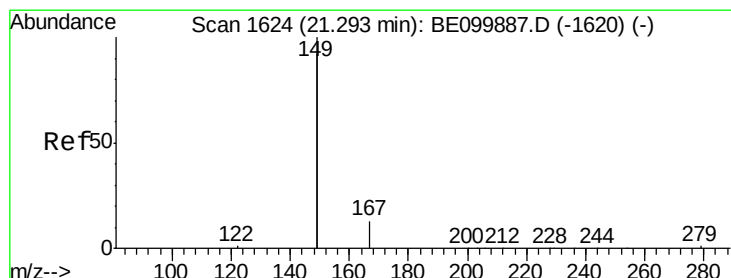
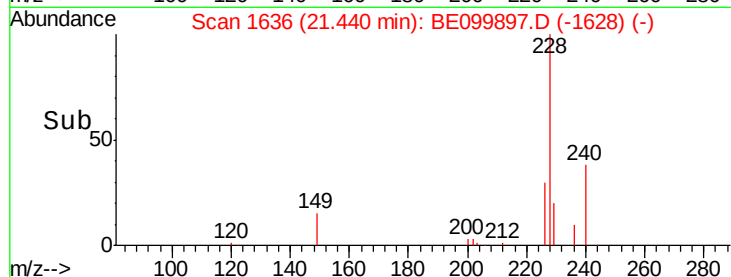
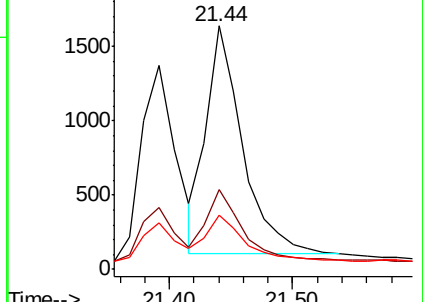
229 22.0 16.1 24.1



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: 0.116 ng

RT: 21.29 min Scan# 1624

Delta R.T. 0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

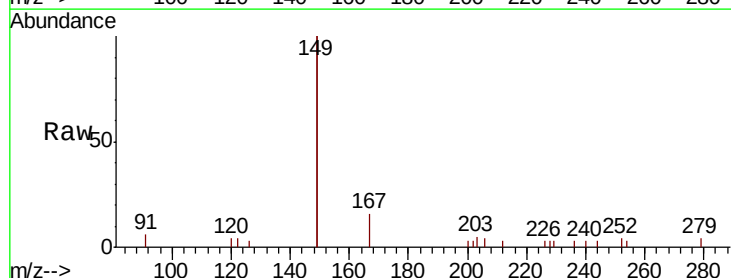
Tgt Ion:149 Resp: 3954

Ion Ratio Lower Upper

149 100

167 7.7 5.9 8.9

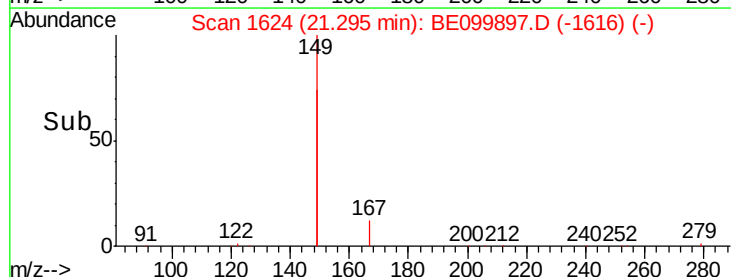
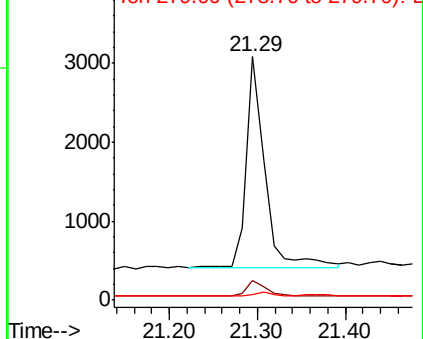
279 1.5 1.2 1.8

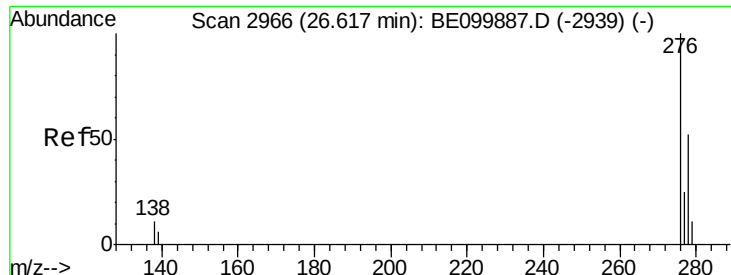


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.122 ng

RT: 26.63 min Scan# 2970

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

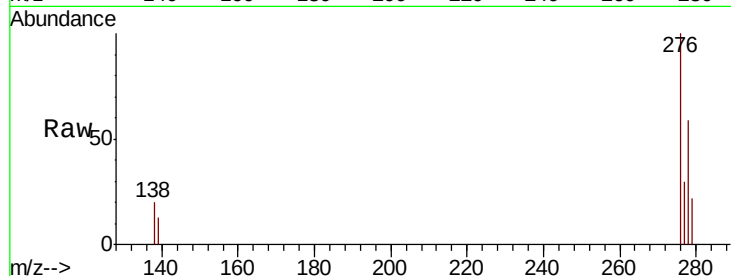
Tgt Ion:276 Resp: 3541

Ion Ratio Lower Upper

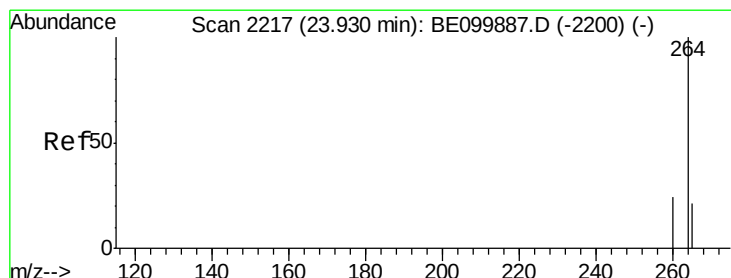
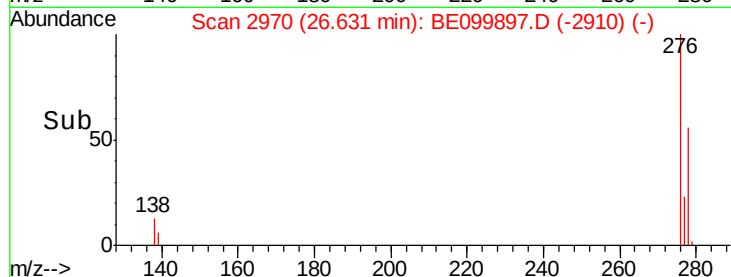
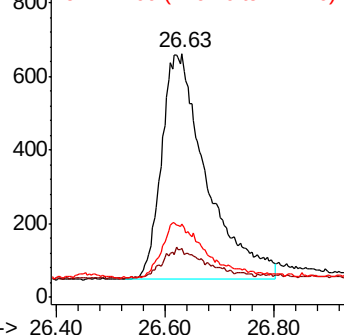
276 100

138 11.7 10.1 15.1

277 22.8 19.1 28.7



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.93 min Scan# 2217

Delta R.T. 0.00 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

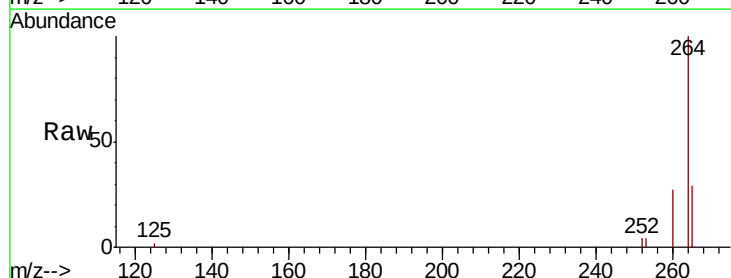
Tgt Ion:264 Resp: 9218

Ion Ratio Lower Upper

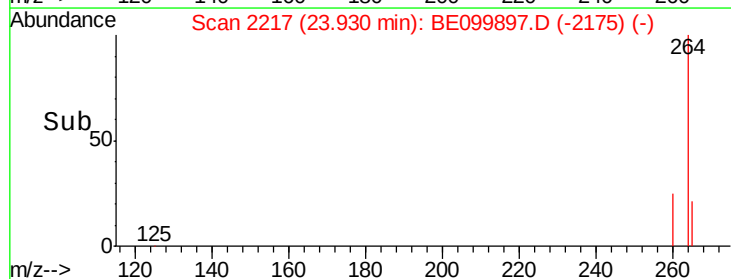
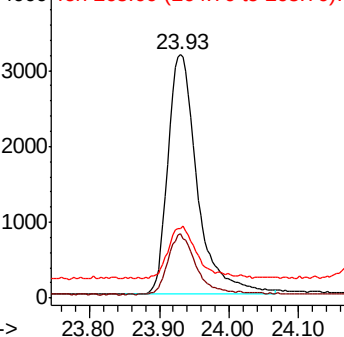
264 100

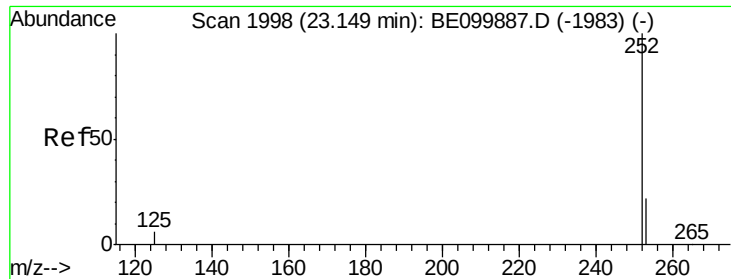
260 26.5 20.2 30.2

265 28.8 22.0 33.0



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

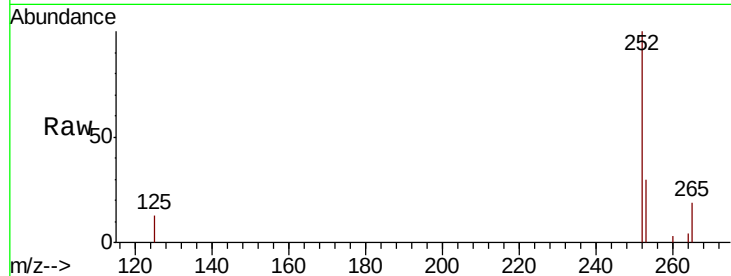




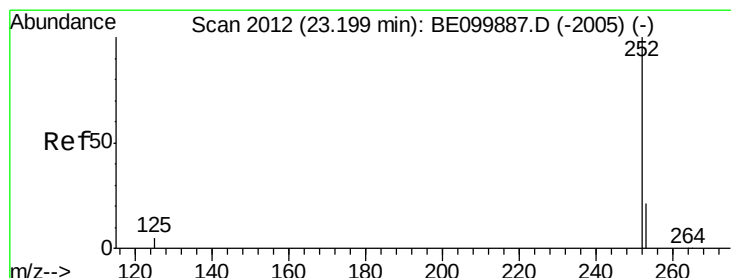
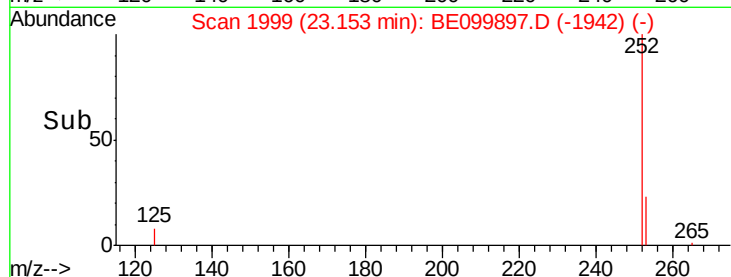
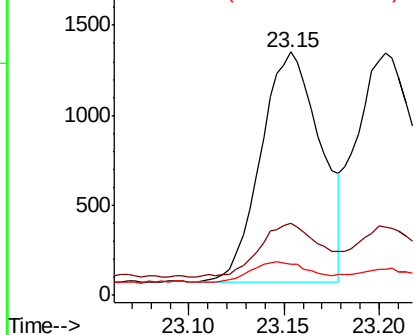
#35  
Benzo(b)fluoranthene  
Concen: 0.108 ng  
RT: 23.15 min Scan# 1999  
Delta R.T. 0.00 min  
Lab File: BE099897.D  
Acq: 10 Jun 2019 19:20

Instrument :  
BNA\_E  
ClientSampleId :  
MDL-MDL-SOIL-03-QT2-2019

Tgt Ion: 252 Resp: 2785  
Ion Ratio Lower Upper  
252 100  
253 29.7 18.7 28.1#  
125 13.0 5.7 8.5#

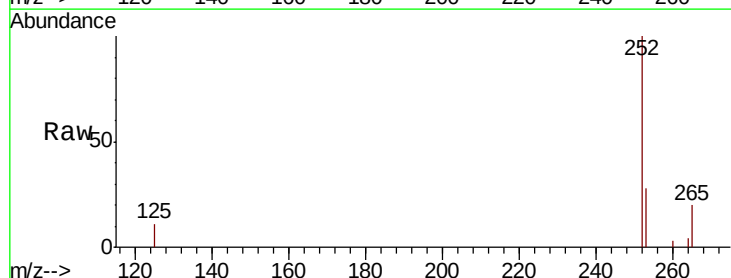


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

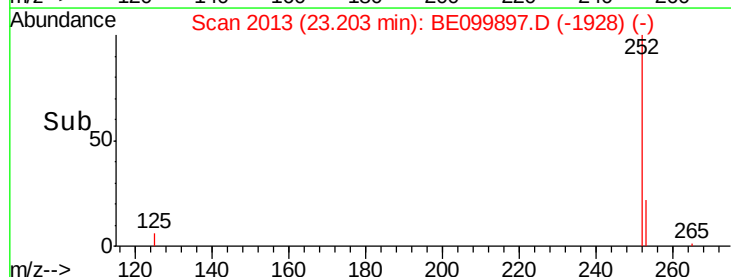
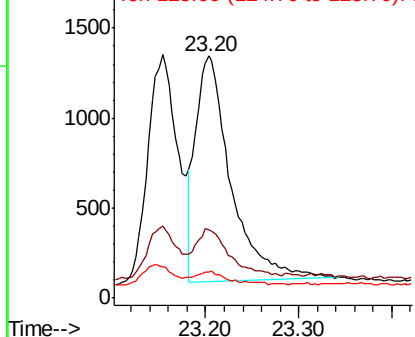


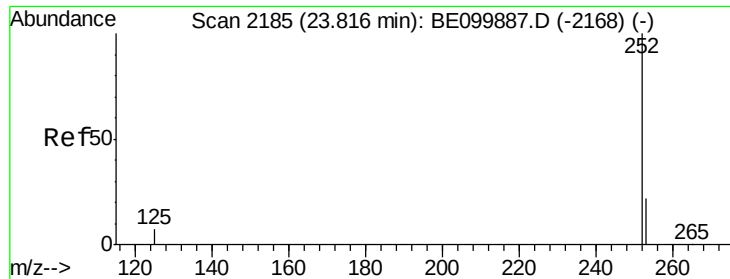
#36  
Benzo(k)fluoranthene  
Concen: 0.121 ng  
RT: 23.20 min Scan# 2013  
Delta R.T. 0.00 min  
Lab File: BE099897.D  
Acq: 10 Jun 2019 19:20

Tgt Ion: 252 Resp: 3275  
Ion Ratio Lower Upper  
252 100  
253 28.1 18.6 28.0#  
125 10.6 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: 0.120 ng

RT: 23.82 min Scan# 2187

Delta R.T. 0.01 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

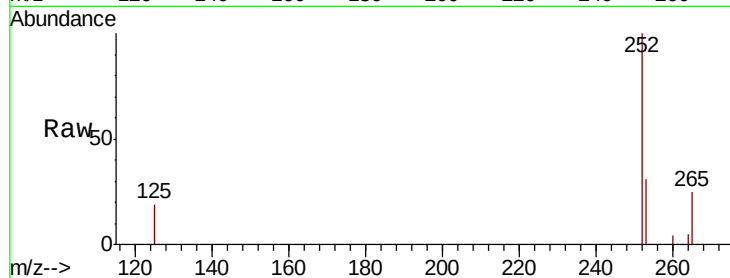
Tgt Ion:252 Resp: 3066

Ion Ratio Lower Upper

252 100

253 31.0 19.6 29.4#

125 18.7 6.6 10.0#

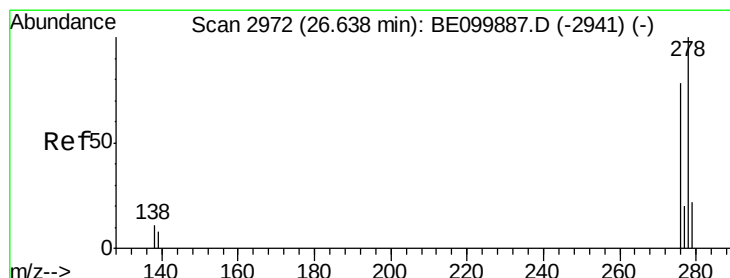
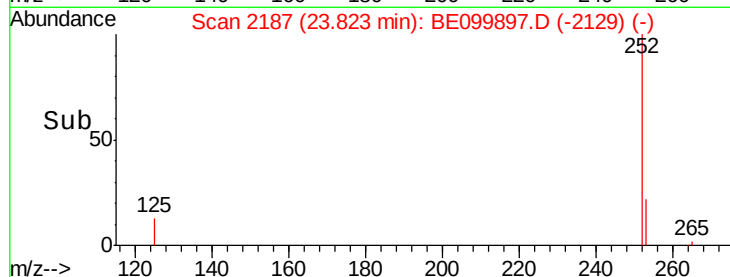
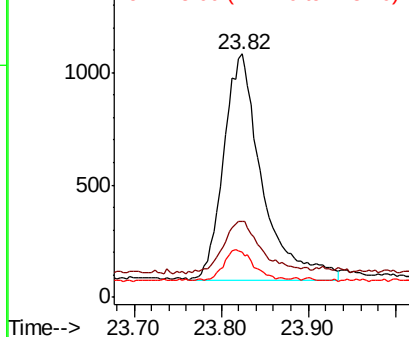


Abundance

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: 0.106 ng

RT: 26.66 min Scan# 2978

Delta R.T. 0.02 min

Lab File: BE099897.D

Acq: 10 Jun 2019 19:20

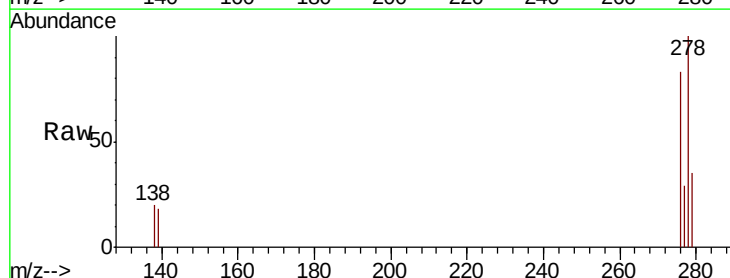
Tgt Ion:278 Resp: 2725

Ion Ratio Lower Upper

278 100

139 18.3 7.8 11.8#

279 34.9 20.0 30.0#

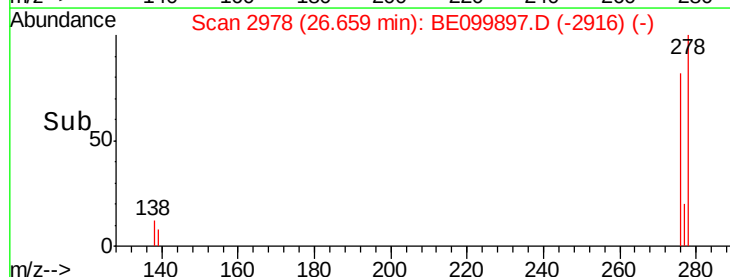
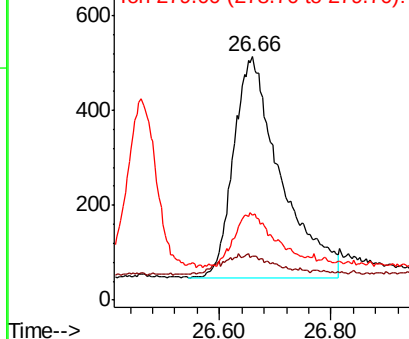


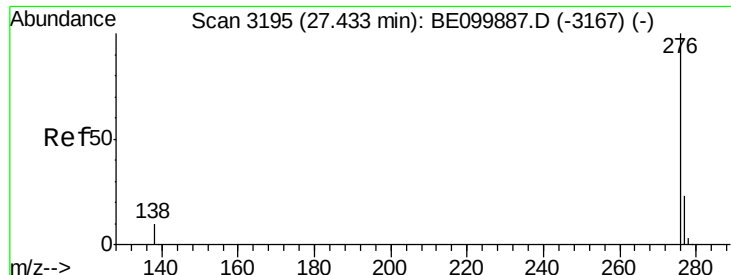
Abundance

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(g,h,i)perylene

Concen: 0.118 ng

RT: 27.44 min Scan# 3197

Delta R.T. 0.01 min

Lab File: BE099897.D

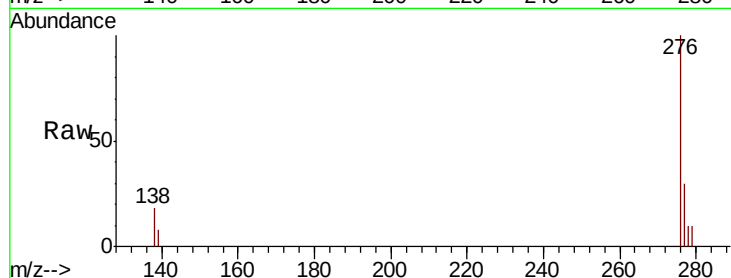
Acq: 10 Jun 2019 19:20

Instrument :

BNA\_E

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019



Tgt Ion: 276 Resp: 3129

Ion Ratio Lower Upper

276 100

277 30.4 19.5 29.3#

138 18.1 9.5 14.3#

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

