

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE032919\  
 Data File : BE099257.D  
 Acq On : 29 Mar 2019 16:27  
 Operator : JU/SJ  
 Sample : K1982-12  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 EXT-027-SW024-032519

Quant Time: Mar 29 22:56:29 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE032519.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Mar 26 07:02:06 2019

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.83  | 152  | 3499     | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.63 | 136  | 14575    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.47 | 164  | 11089    | 0.40 | ng    | -0.01    |
| 19) Phenanthrene-d10      | 17.20 | 188  | 33900    | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 21.38 | 240  | 42088    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.89 | 264  | 41121    | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| 4) 2-Fluorophenol           | 5.41  | 112 | 1953  | 0.19 | ng | 0.00  |
| 5) Phenol-d6                | 6.99  | 99  | 2931  | 0.18 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 8.99  | 82  | 2204  | 0.19 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 12.21 | 152 | 5267  | 0.19 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol    | 15.96 | 330 | 925   | 0.38 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 13.10 | 172 | 7768  | 0.17 | ng | 0.00  |
| 25) Fluoranthene-d10        | 19.24 | 212 | 77211 | 0.19 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.83 | 244 | 13122 | 0.14 | ng | 0.00  |

#### Target Compounds

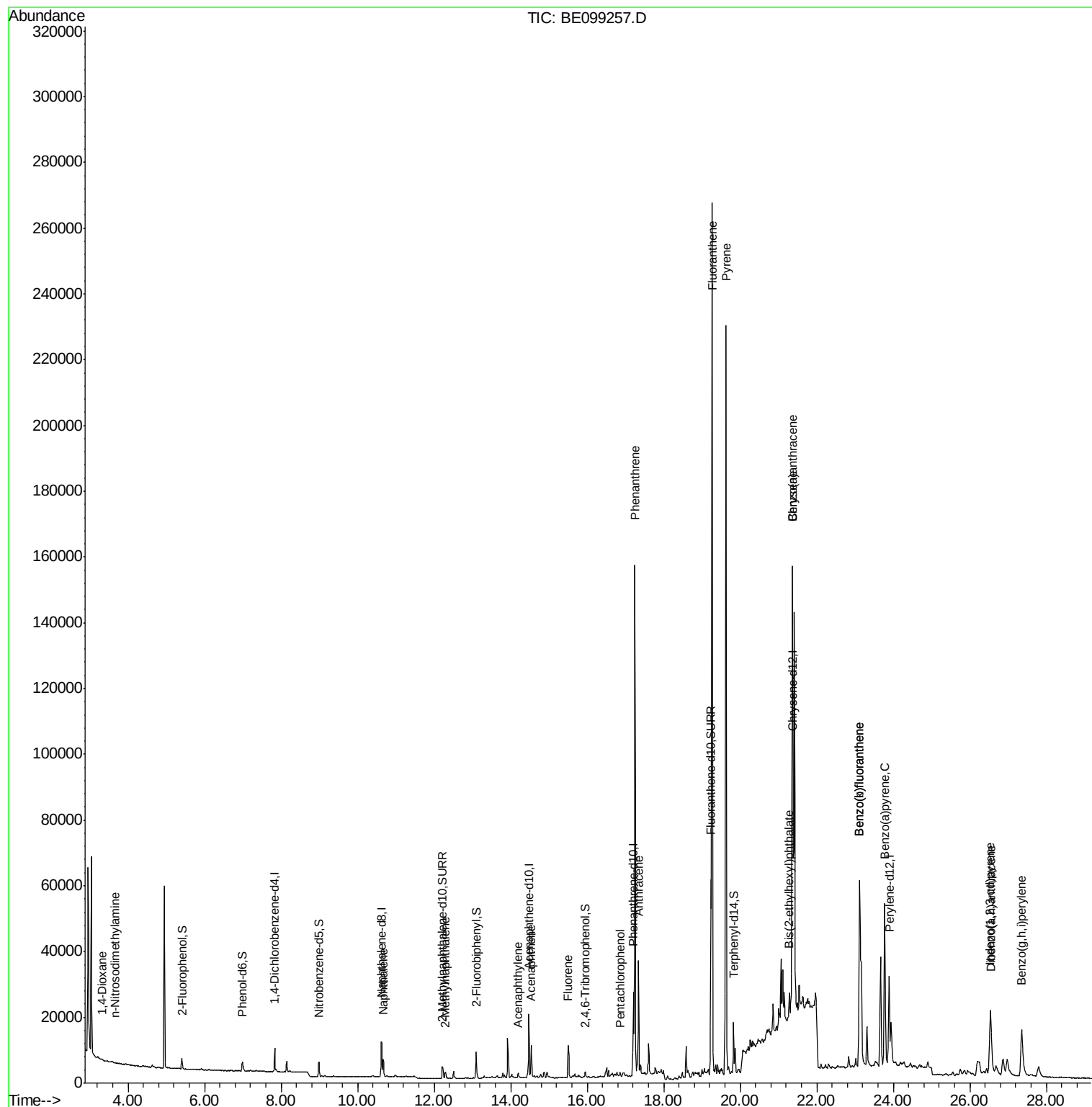
|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.33  | 88  | 148    | 0.032 | ng | # 30   |
| 3) n-Nitrosodimethylamine      | 3.66  | 42  | 194    | 0.075 | ng | # 1    |
| 9) Naphthalene                 | 10.67 | 128 | 8776   | 0.051 | ng | # 97   |
| 12) 2-Methylnaphthalene        | 12.30 | 142 | 1413   | 0.046 | ng | 97     |
| 16) Acenaphthylene             | 14.20 | 152 | 2205   | 0.039 | ng | 97     |
| 17) Acenaphthene               | 14.53 | 154 | 5424   | 0.160 | ng | 100    |
| 18) Fluorene                   | 15.50 | 166 | 7372   | 0.155 | ng | # 97   |
| 22) Pentachlorophenol          | 16.85 | 266 | 20     | 0.245 | ng | # 77   |
| 23) Phenanthrene               | 17.24 | 178 | 162489 | 1.632 | ng | 100    |
| 24) Anthracene                 | 17.34 | 178 | 35935  | 0.399 | ng | # 95   |
| 26) Fluoranthene               | 19.26 | 202 | 242818 | 1.911 | ng | 99     |
| 28) Pyrene                     | 19.63 | 202 | 209374 | 1.497 | ng | # 95   |
| 30) Benzo(a)anthracene         | 21.37 | 228 | 140428 | 1.011 | ng | 98     |
| 31) Chrysene                   | 21.37 | 228 | 134351 | 0.905 | ng | 93     |
| 32) Bis(2-ethylhexyl)phthalate | 21.28 | 149 | 8211   | 0.050 | ng | # 94   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.53 | 276 | 43876  | 0.312 | ng | # 95   |
| 35) Benzo(b)fluoranthene       | 23.12 | 252 | 111710 | 0.826 | ng | 95     |
| 36) Benzo(k)fluoranthene       | 23.12 | 252 | 111710 | 0.781 | ng | 95     |
| 37) Benzo(a)pyrene             | 23.77 | 252 | 81563  | 0.645 | ng | 97     |
| 38) Dibenzo(a,h)anthracene     | 26.56 | 278 | 12004  | 0.107 | ng | # 77   |
| 39) Benzo(g,h,i)perylene       | 27.35 | 276 | 41334  | 0.367 | ng | 96     |

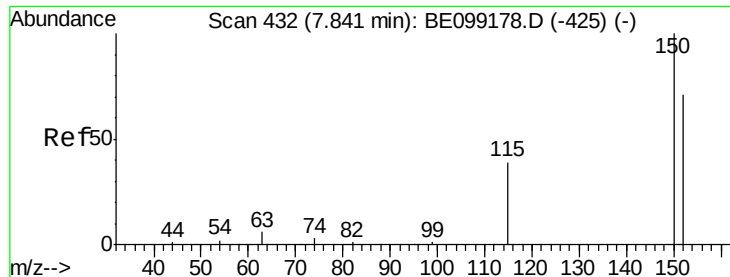
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K1982-12  
Misc :  
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Instrument :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Mar 26 07:02:06 2019  
Response via : Initial Calibration



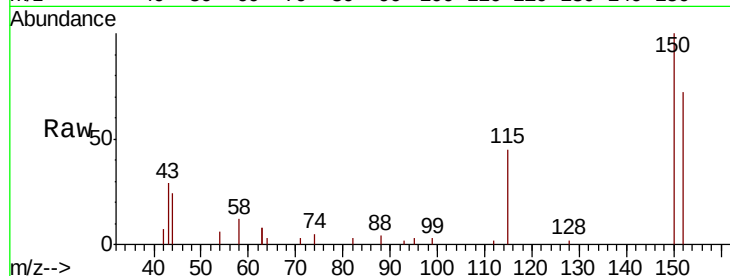


#1

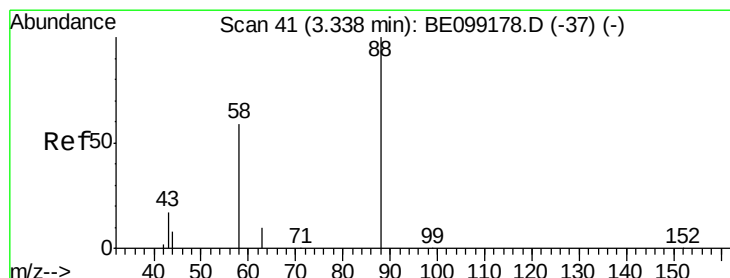
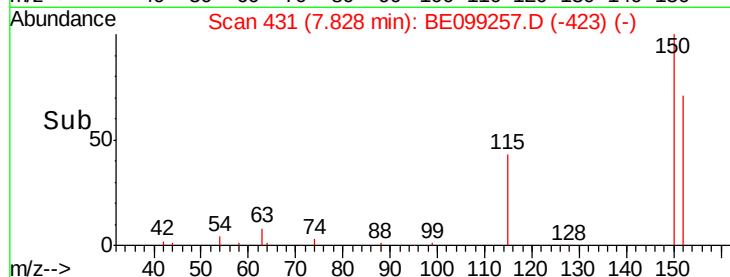
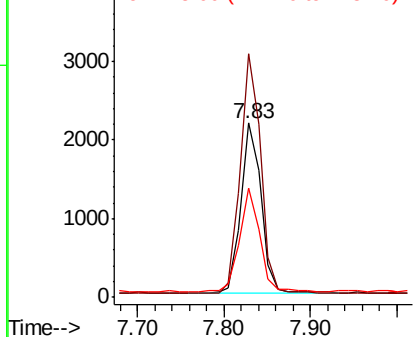
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.83 min Scan# 431  
Delta R.T. -0.01 min  
Lab File: BE099257.D  
Acq: 29 Mar 2019 16:27

Instrument :  
BNA\_E  
ClientSampleId :  
EXT-027-SW024-032519

Tgt Ion: 152 Resp: 3499  
Ion Ratio Lower Upper  
152 100  
150 139.6 112.8 169.2  
115 62.8 45.1 67.7



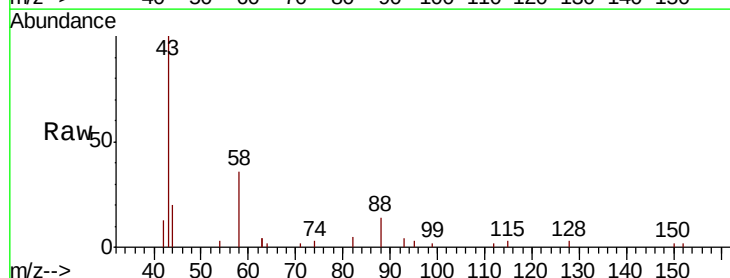
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



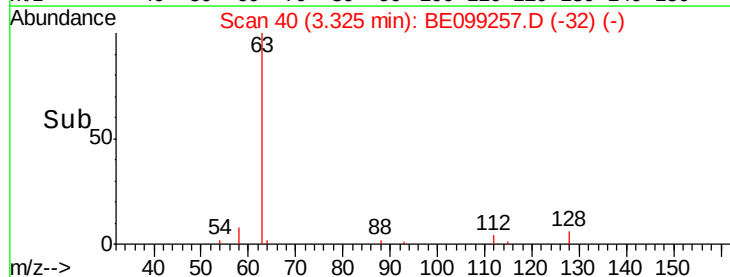
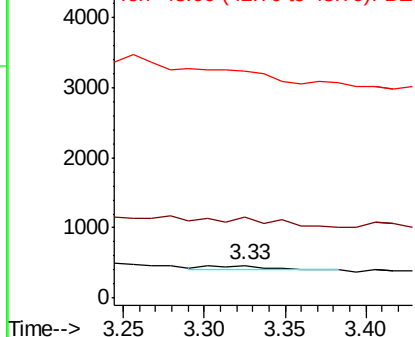
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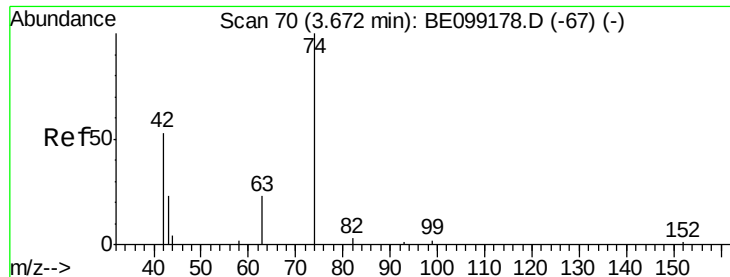
1,4-Dioxane  
Concen: 0.032 ng  
RT: 3.33 min Scan# 40  
Delta R.T. -0.01 min  
Lab File: BE099257.D  
Acq: 29 Mar 2019 16:27

Tgt Ion: 88 Resp: 148  
Ion Ratio Lower Upper  
88 100  
58 0.0 47.4 71.0#  
43 0.0 15.6 23.4#



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: 0.075 ng

RT: 3.66 min Scan# 69

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519

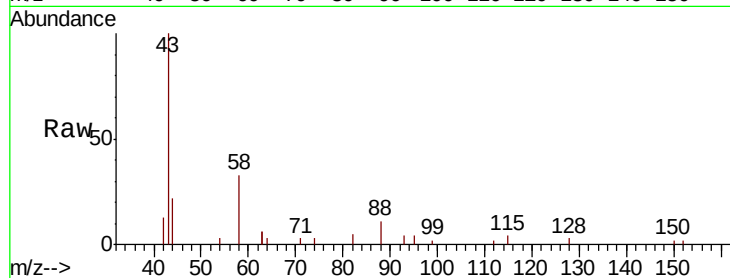
Tgt Ion: 42 Resp: 194

Ion Ratio Lower Upper

42 100

74 4.1 138.6 207.8#

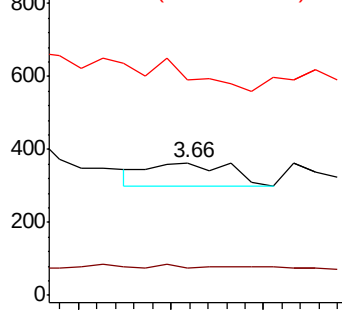
44 0.0 15.0 22.6#



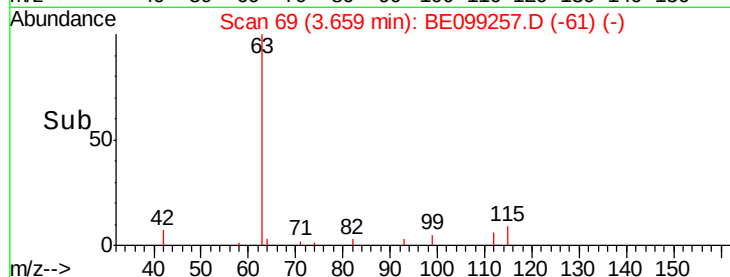
Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



Time-->



#4

2-Fluorophenol

Concen: 0.187 ng

RT: 5.41 min Scan# 221

Delta R.T. -0.00 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

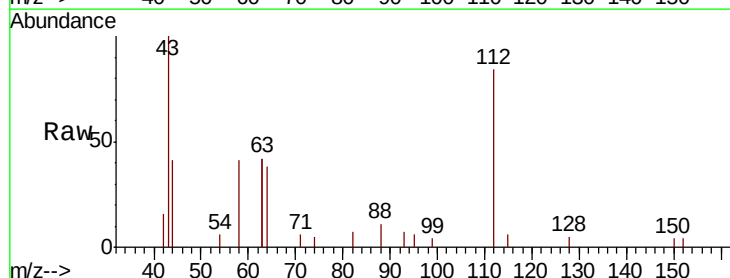
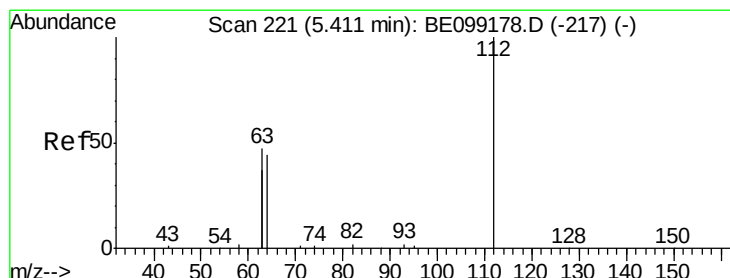
Tgt Ion: 112 Resp: 1953

Ion Ratio Lower Upper

112 100

64 59.5 46.2 69.2

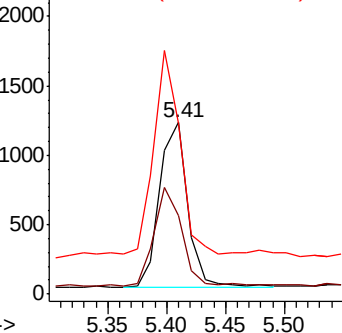
63 116.1 89.9 134.9



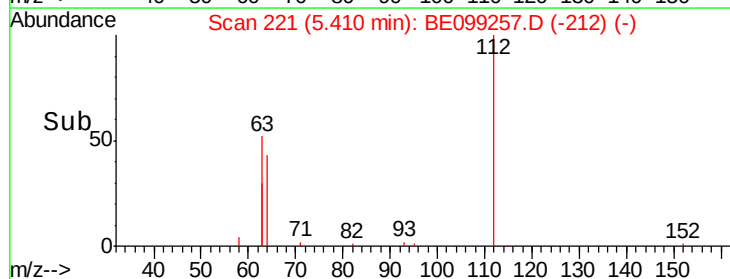
Abundance Ion 112.00 (111.70 to 112.70): E

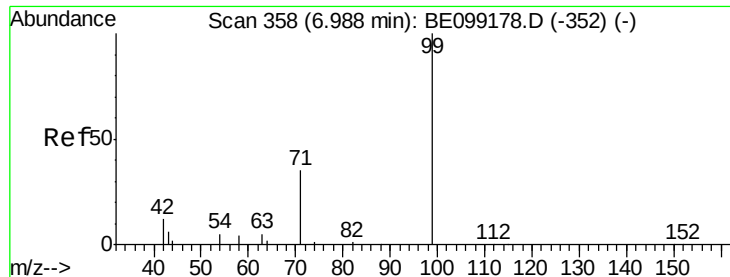
Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



Time-->





#5

Phenol-d6

Concen: 0.184 ng

RT: 6.99 min Scan# 358

Delta R.T. -0.00 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519

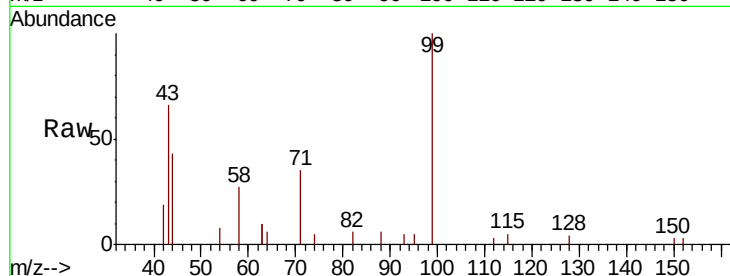
Tgt Ion: 99 Resp: 2931

Ion Ratio Lower Upper

99 100

42 21.8 12.4 18.6#

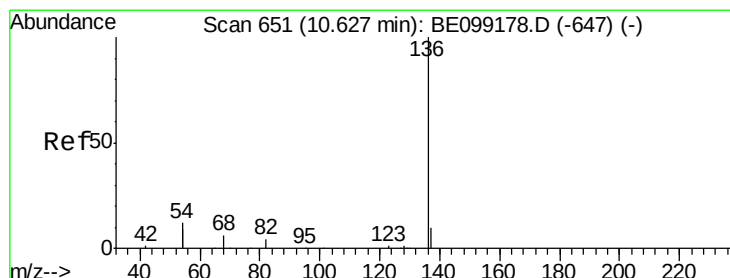
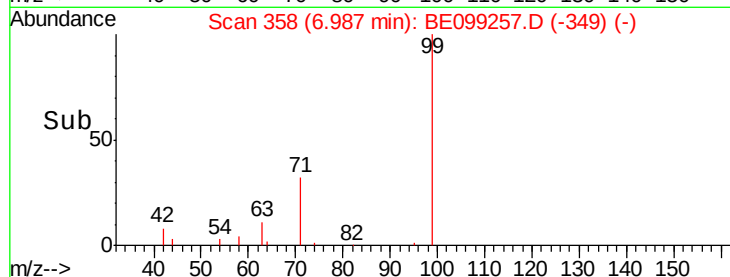
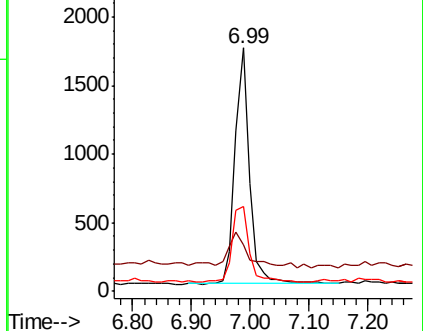
71 38.2 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. 0.00 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Tgt Ion: 136 Resp: 14575

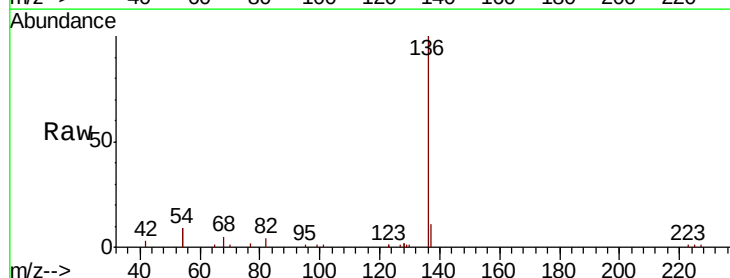
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 17.0 18.7 28.1#

68 5.0 5.2 7.8#

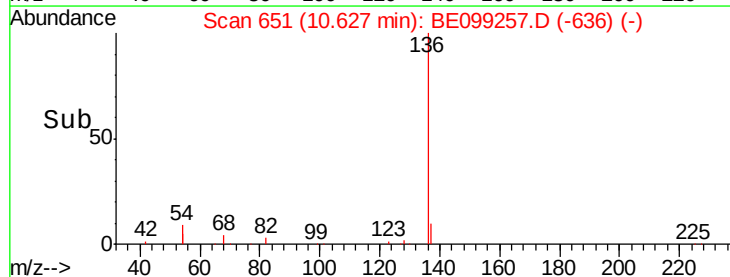
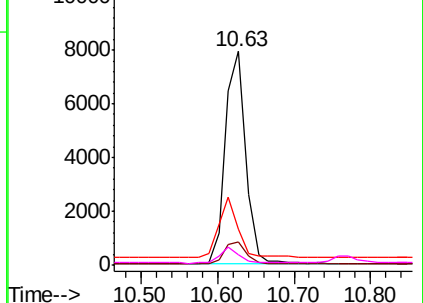


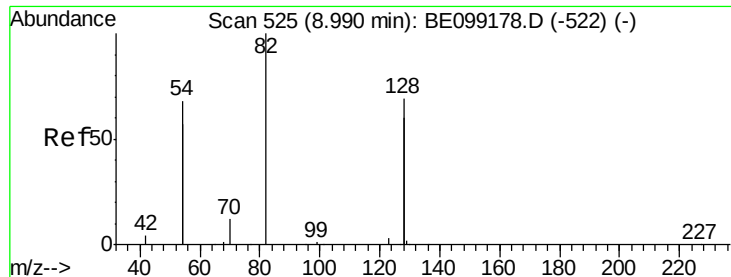
Abundance Ion 136.00 (135.70 to 136.70): E

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

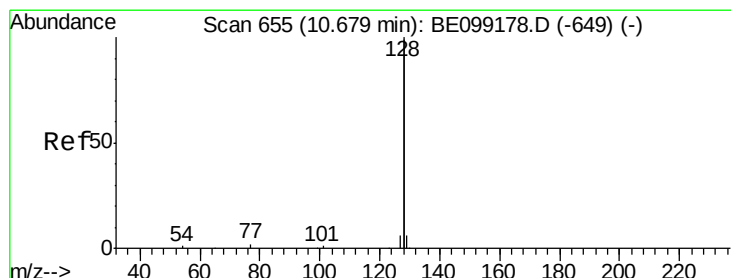
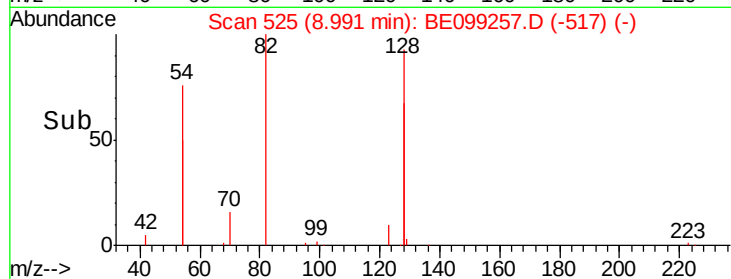
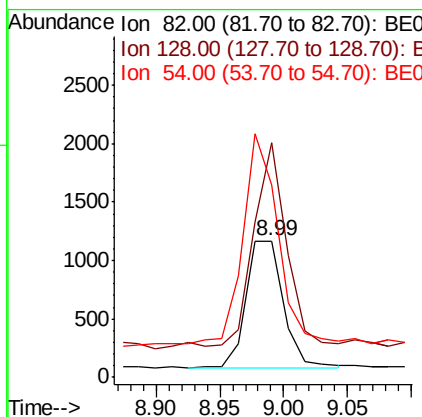
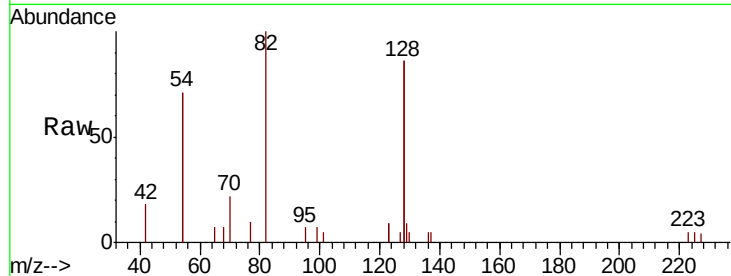




#8  
 Nitrobenzene-d5  
 Concen: 0.185 ng  
 RT: 8.99 min Scan# 525  
 Delta R.T. 0.00 min  
 Lab File: BE099257.D  
 Acq: 29 Mar 2019 16:27

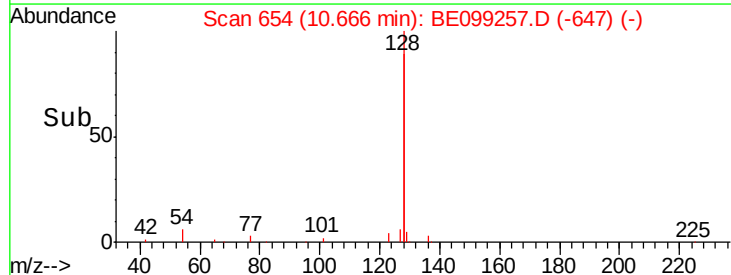
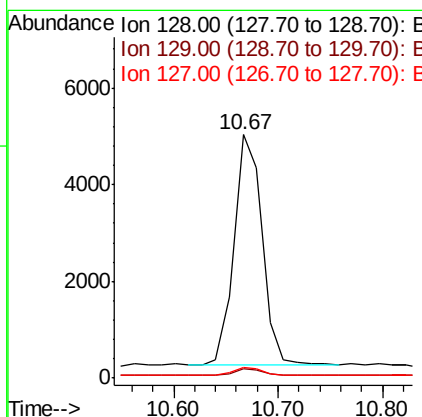
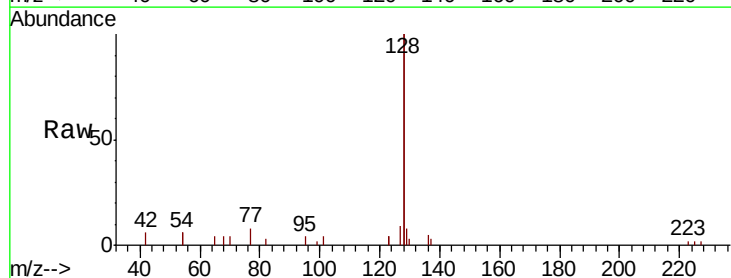
Instrument :  
 BNA\_E  
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 EXT-027-SW024-032519

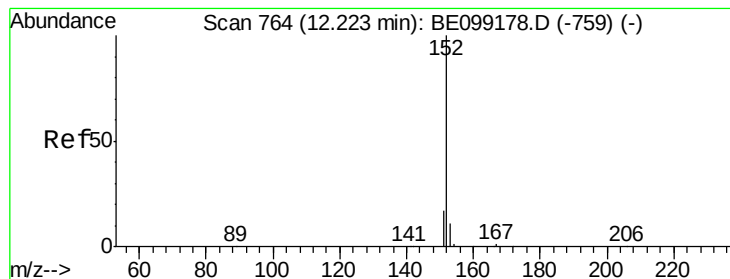
Tgt Ion: 82 Resp: 2204  
 Ion Ratio Lower Upper  
 82 100  
 128 171.9 107.5 161.3#  
 54 141.1 106.3 159.5



#9  
 Naphthalene  
 Concen: 0.051 ng  
 RT: 10.67 min Scan# 654  
 Delta R.T. -0.01 min  
 Lab File: BE099257.D  
 Acq: 29 Mar 2019 16:27

Tgt Ion: 128 Resp: 8776  
 Ion Ratio Lower Upper  
 128 100  
 129 3.8 2.3 3.5#  
 127 4.3 2.6 3.8#





#11

2-Methylnaphthalene-d10

Concen: 0.188 ng

RT: 12.21 min Scan# 763

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

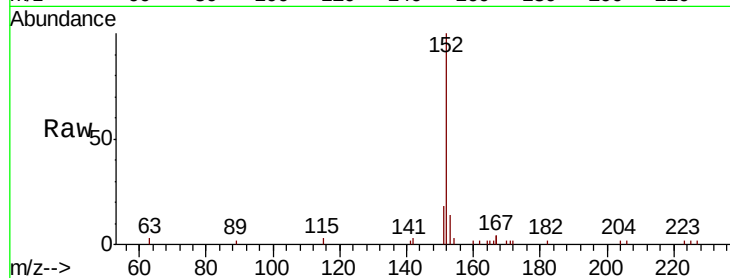
EXT-027-SW024-032519

Tgt Ion:152 Resp: 5267

Ion Ratio Lower Upper

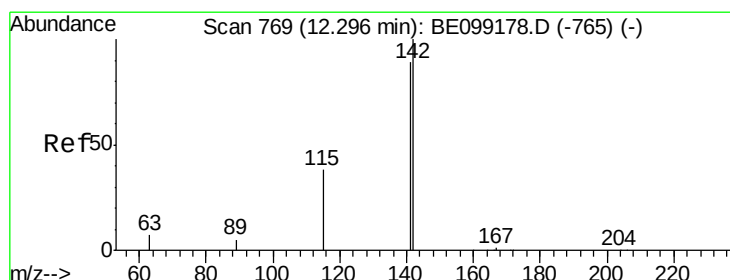
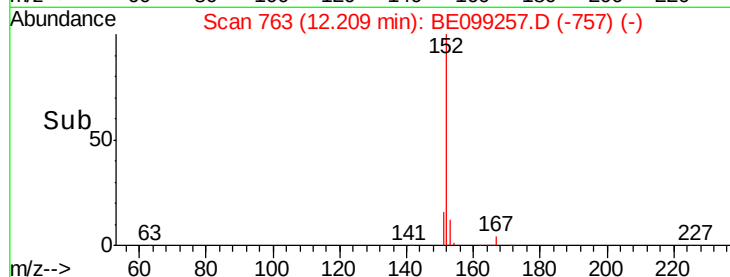
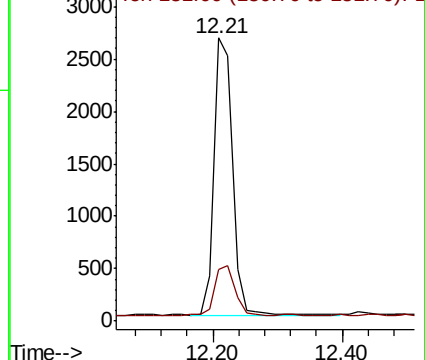
152 100

151 19.4 15.0 22.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E



#12

2-Methylnaphthalene

Concen: 0.046 ng

RT: 12.30 min Scan# 769

Delta R.T. 0.00 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

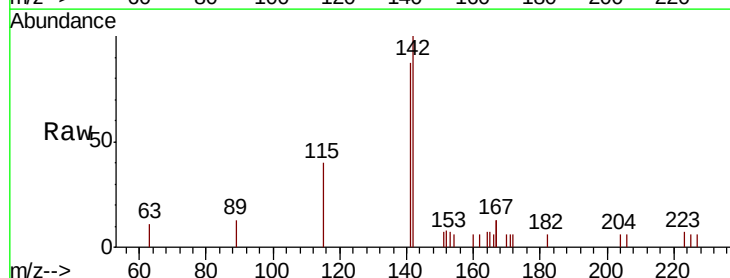
Tgt Ion:142 Resp: 1413

Ion Ratio Lower Upper

142 100

141 87.2 71.3 106.9

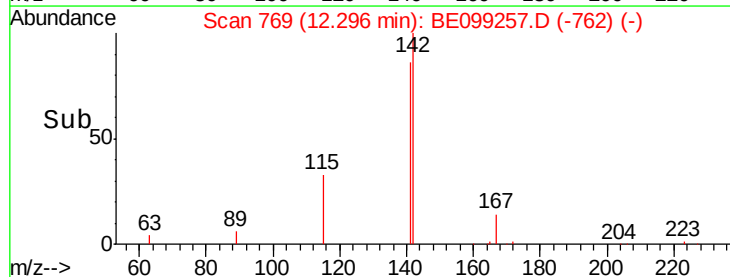
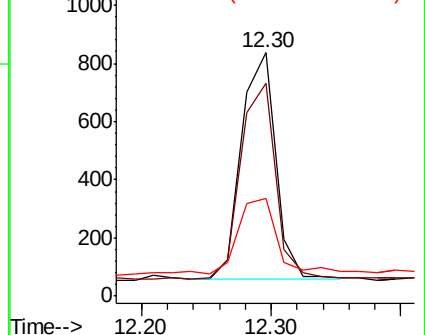
115 40.4 30.4 45.6

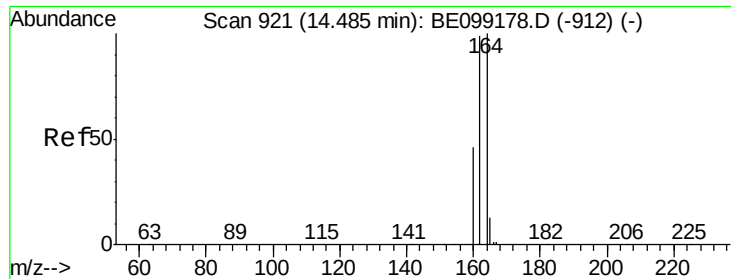


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

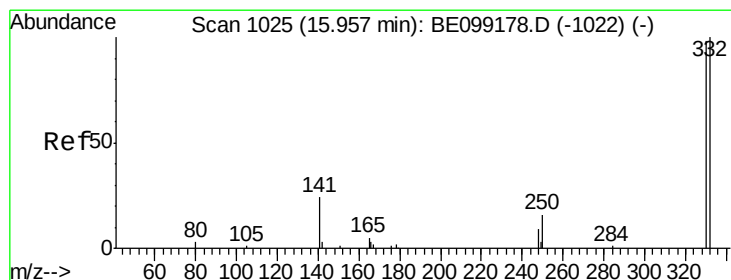
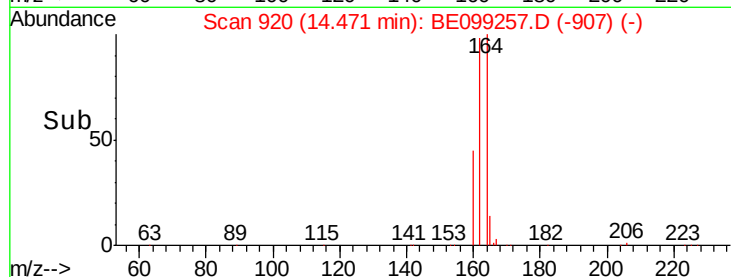
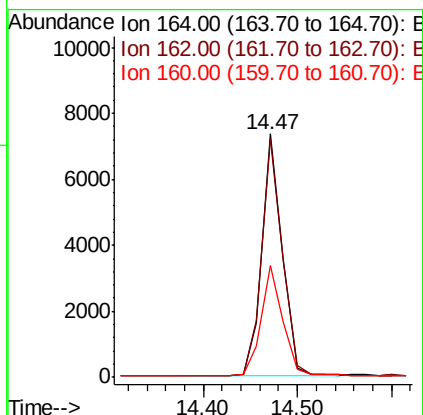
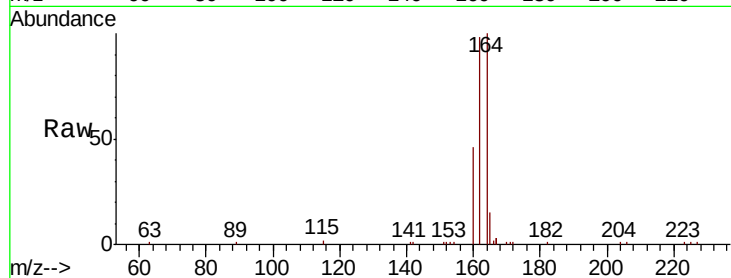




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.47 min Scan# 920  
Delta R.T. -0.01 min  
Lab File: BE099257.D  
Acq: 29 Mar 2019 16:27

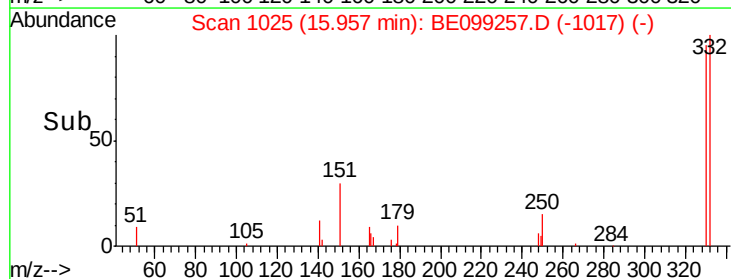
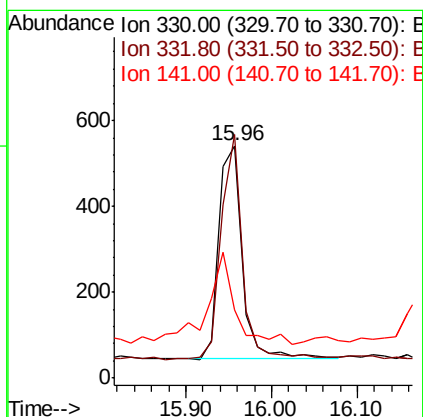
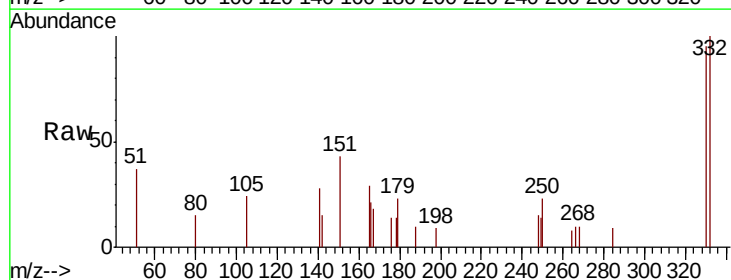
Instrument :  
BNA\_E  
ClientSampleId :  
EXT-027-SW024-032519

Tgt Ion:164 Resp: 11089  
Ion Ratio Lower Upper  
164 100  
162 98.0 79.2 118.8  
160 45.9 36.7 55.1

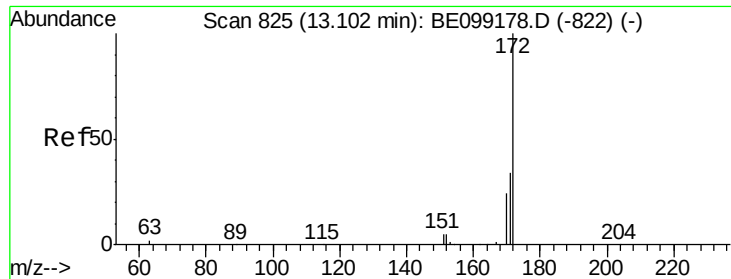


#14  
2,4,6-Tribromophenol  
Concen: 0.377 ng  
RT: 15.96 min Scan# 1025  
Delta R.T. 0.00 min  
Lab File: BE099257.D  
Acq: 29 Mar 2019 16:27

Tgt Ion:330 Resp: 925  
Ion Ratio Lower Upper  
330 100  
332 97.9 71.3 106.9  
141 53.2 21.7 32.5#



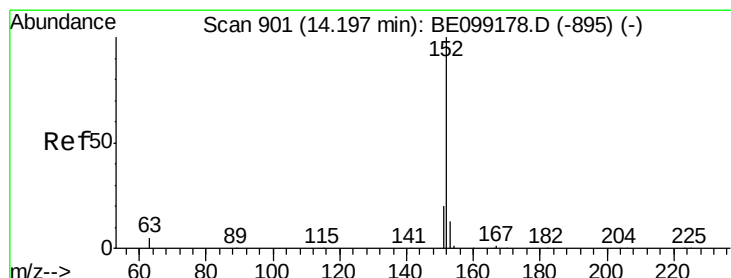
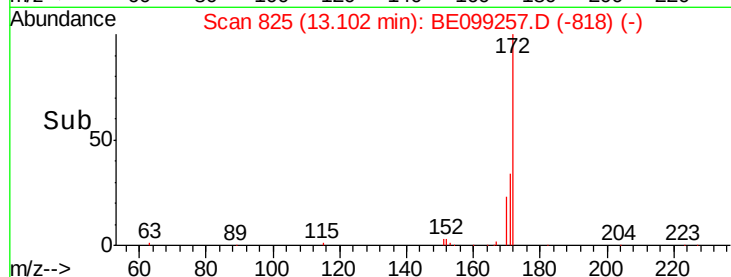
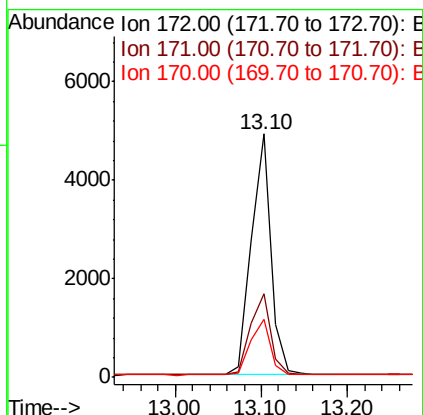
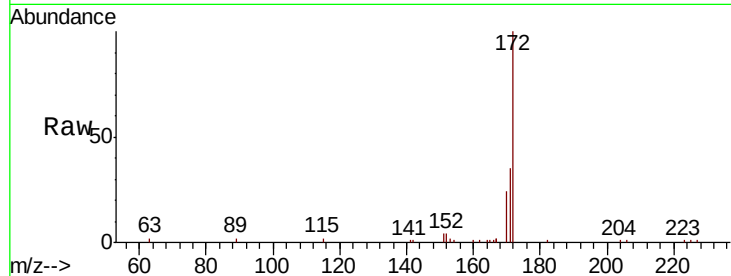




#15  
2-Fluorobiphenyl  
Concen: 0.172 ng  
RT: 13.10 min Scan# 825  
Delta R.T. 0.00 min  
Lab File: BE099257.D  
Acq: 29 Mar 2019 16:27

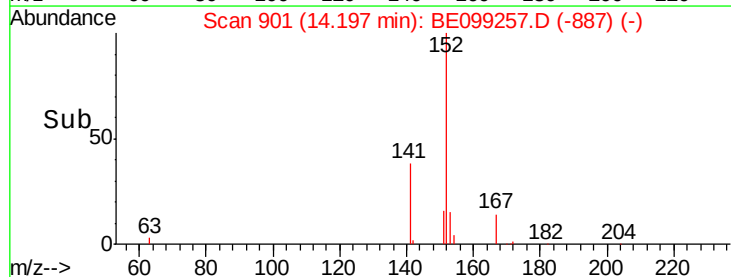
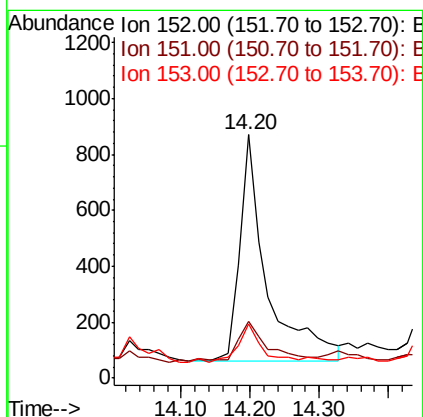
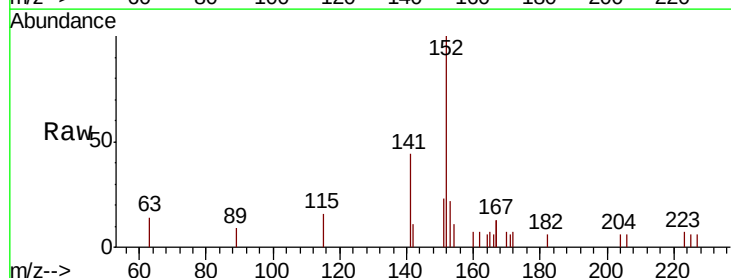
Instrument :  
BNA\_E  
ClientSampleId :  
EXT-027-SW024-032519

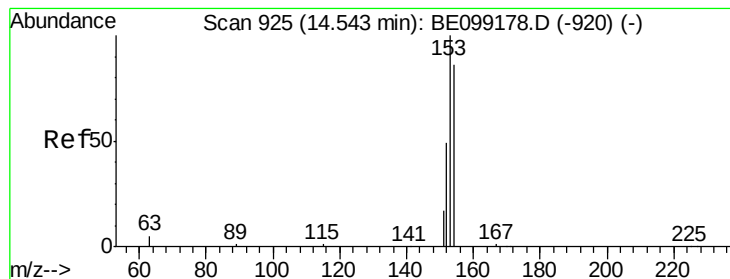
Tgt Ion:172 Resp: 7768  
Ion Ratio Lower Upper  
172 100  
171 34.6 27.4 41.0  
170 23.8 19.1 28.7



#16  
Acenaphthylene  
Concen: 0.039 ng  
RT: 14.20 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: BE099257.D  
Acq: 29 Mar 2019 16:27

Tgt Ion:152 Resp: 2205  
Ion Ratio Lower Upper  
152 100  
151 20.5 15.7 23.5  
153 14.9 10.6 15.8





#17

Acenaphthene

Concen: 0.160 ng

RT: 14.53 min Scan# 924

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519

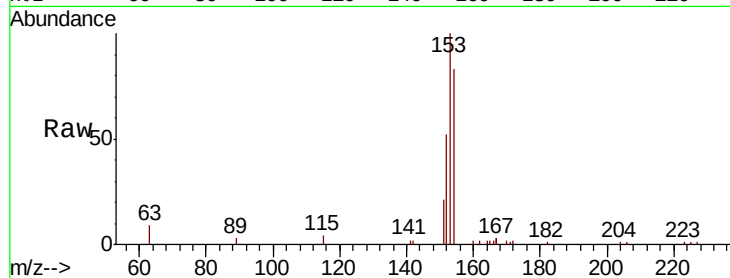
Tgt Ion:154 Resp: 5424

Ion Ratio Lower Upper

154 100

153 116.9 93.4 140.0

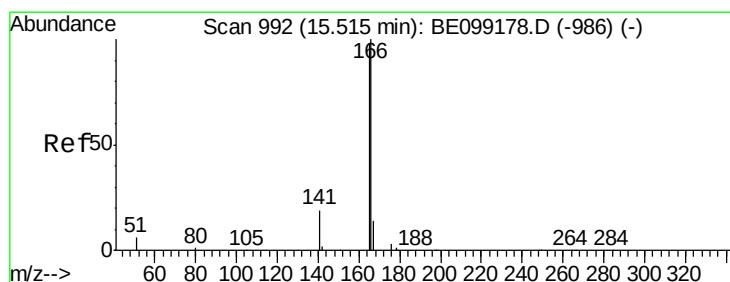
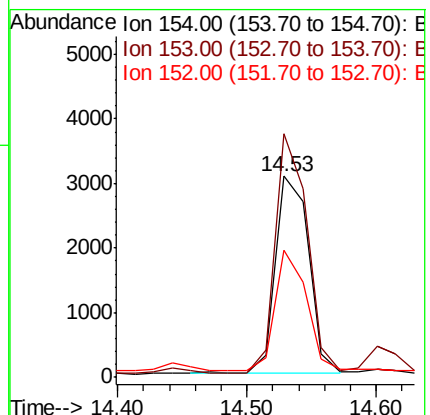
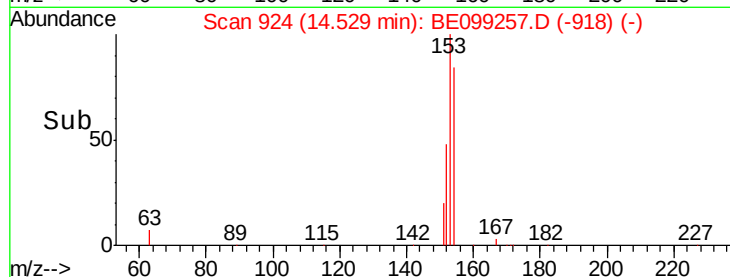
152 57.6 46.6 69.8



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: 0.155 ng

RT: 15.50 min Scan# 991

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

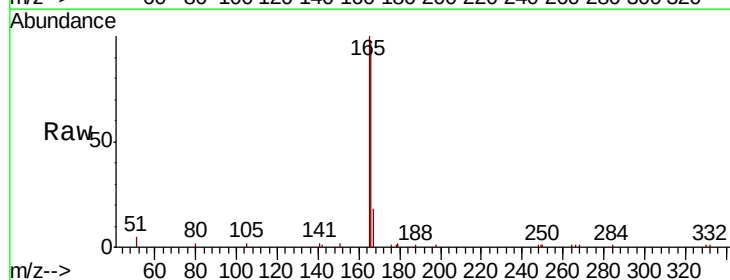
Tgt Ion:166 Resp: 7372

Ion Ratio Lower Upper

166 100

165 96.8 78.9 118.3

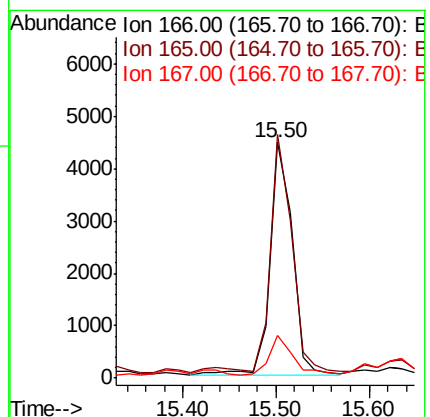
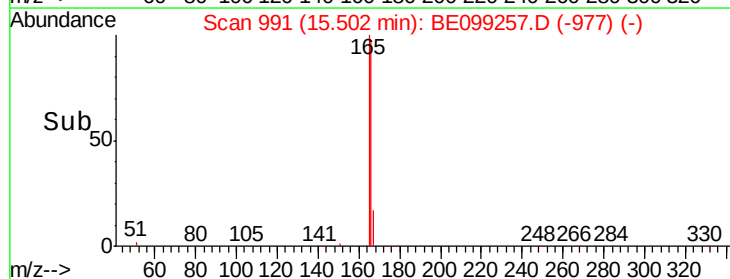
167 17.8 10.9 16.3#

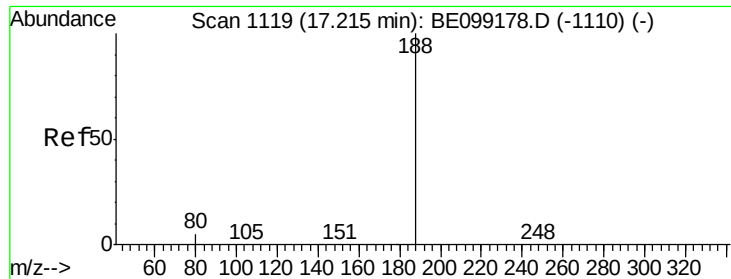


Abundance Ion 166.00 (165.70 to 166.70): E

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: 17.20 min Scan# 1118

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519

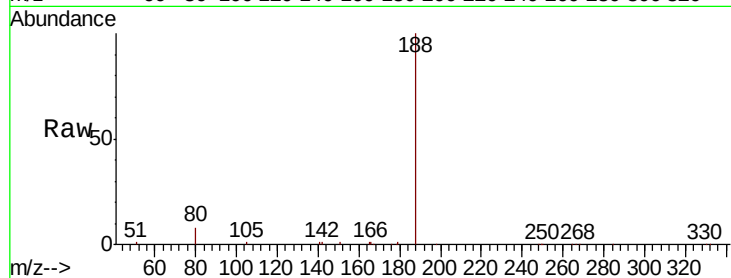
Tgt Ion:188 Resp: 33900

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

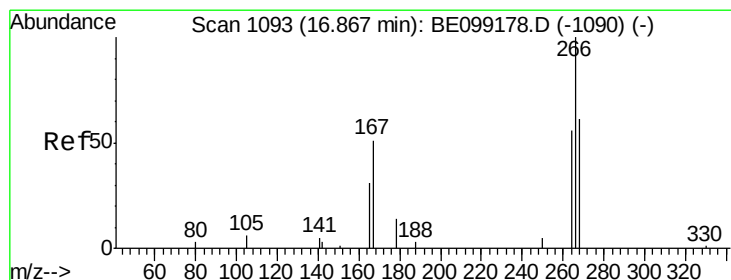
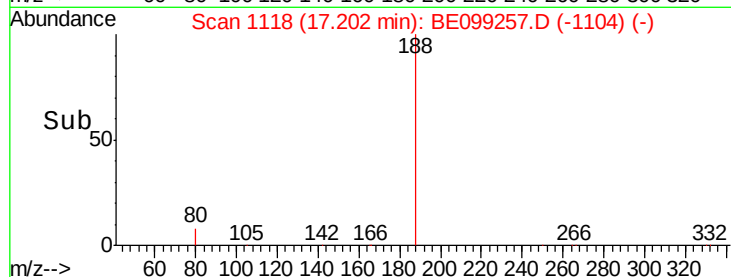
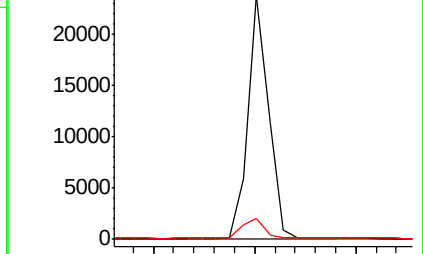
80 8.4 4.5 6.7#



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



#22

Pentachlorophenol

Concen: 0.245 ng

RT: 16.85 min Scan# 1092

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

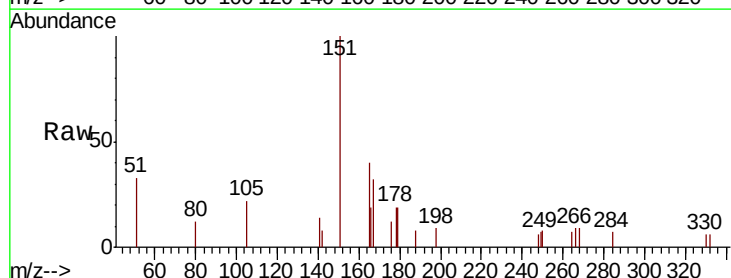
Tgt Ion:266 Resp: 20

Ion Ratio Lower Upper

266 100

264 81.4 54.4 81.6

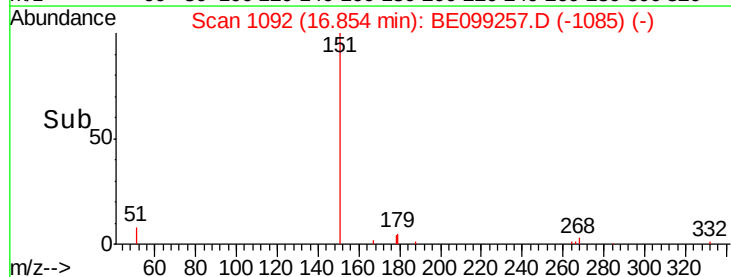
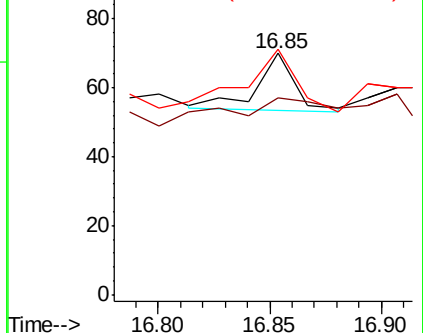
268 101.4 61.3 91.9#

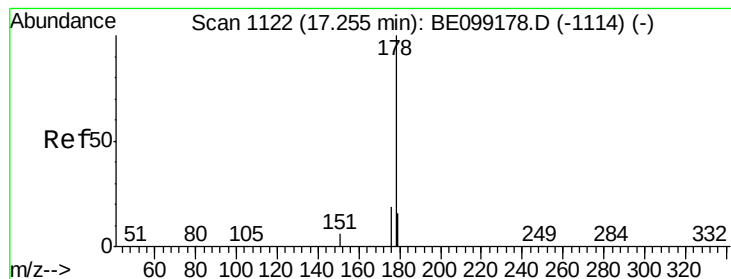


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 1.632 ng

RT: 17.24 min Scan# 1121

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519

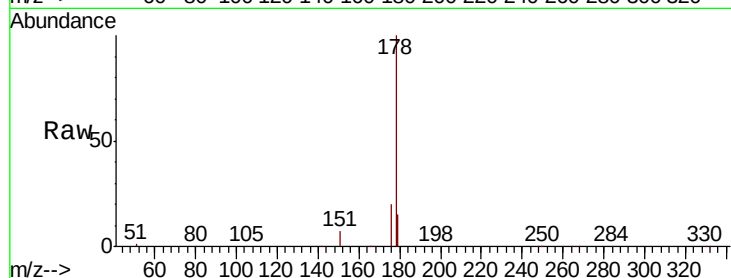
Tgt Ion:178 Resp: 162489

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

179 15.5 12.3 18.5

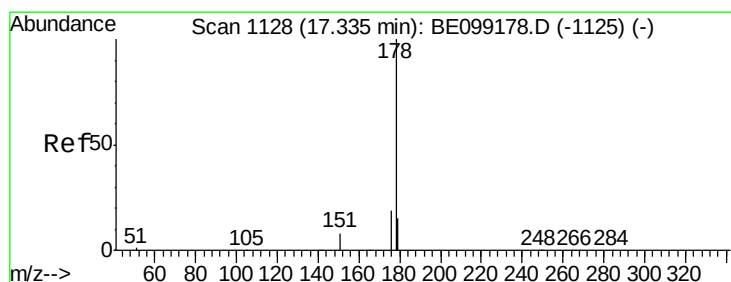
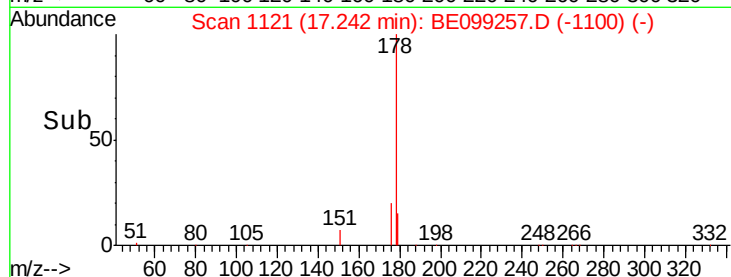
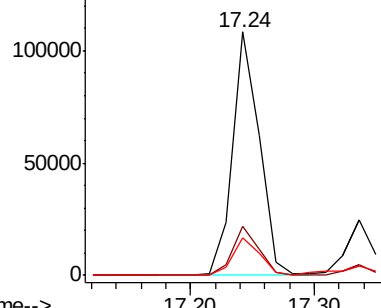


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.399 ng

RT: 17.34 min Scan# 1128

Delta R.T. 0.00 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

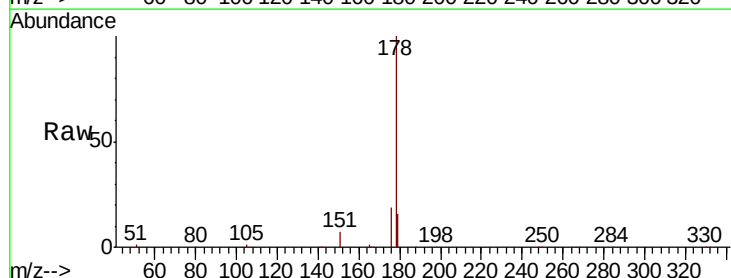
Tgt Ion:178 Resp: 35935

Ion Ratio Lower Upper

178 100

176 18.3 15.1 22.7

179 19.8 12.4 18.6#

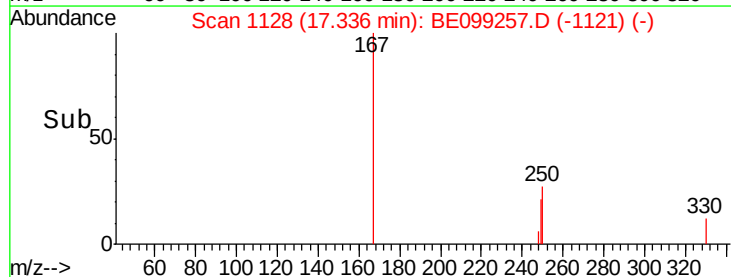
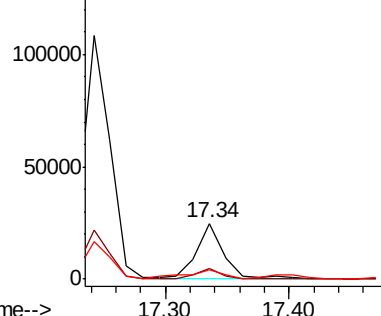


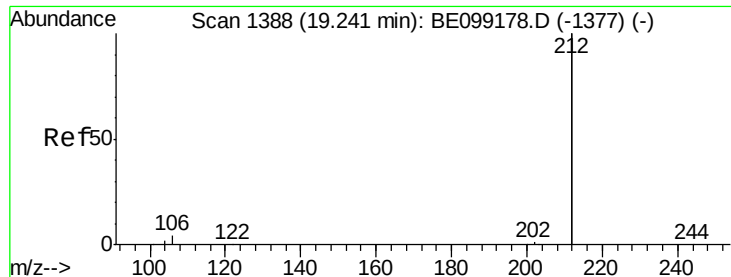
Abundance

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: 0.188 ng

RT: 19.24 min Scan# 1387

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519

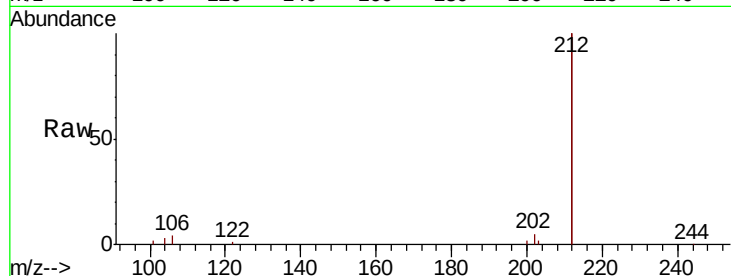
Tgt Ion:212 Resp: 77211

Ion Ratio Lower Upper

212 100

106 2.3 1.8 2.8

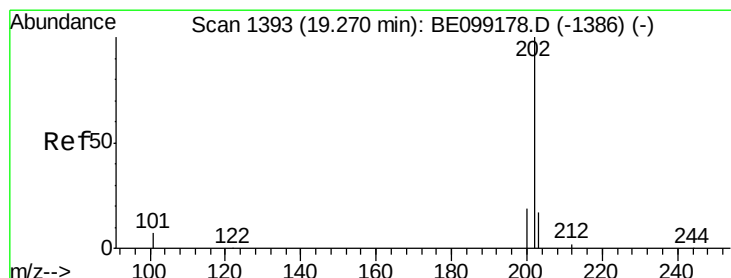
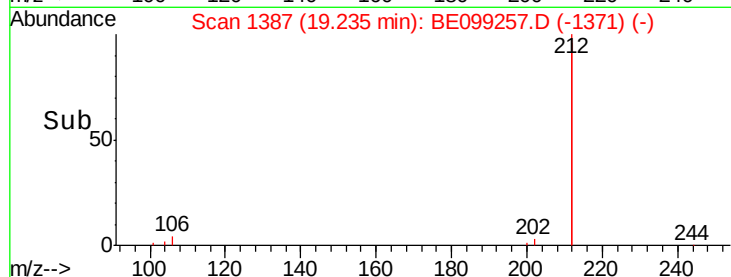
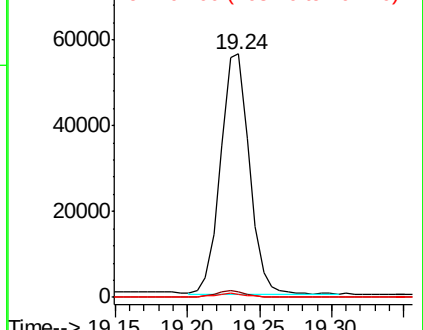
104 1.4 1.1 1.7



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: 1.911 ng

RT: 19.26 min Scan# 1392

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

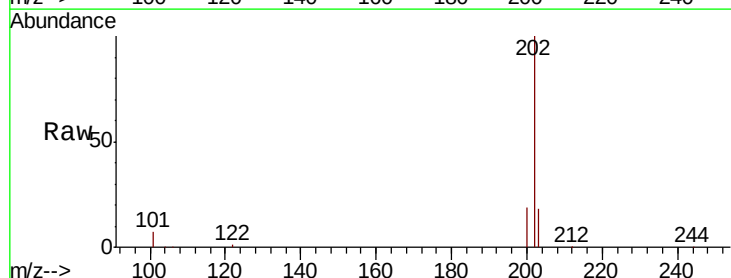
Tgt Ion:202 Resp: 242818

Ion Ratio Lower Upper

202 100

101 7.9 7.0 10.4

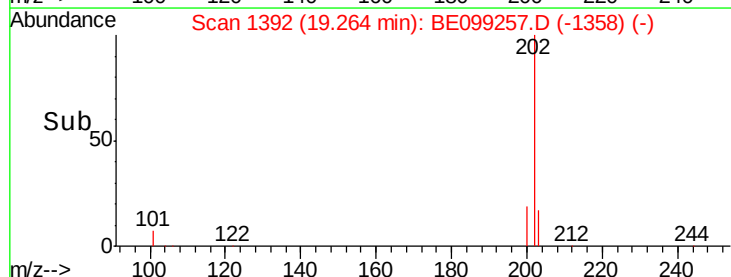
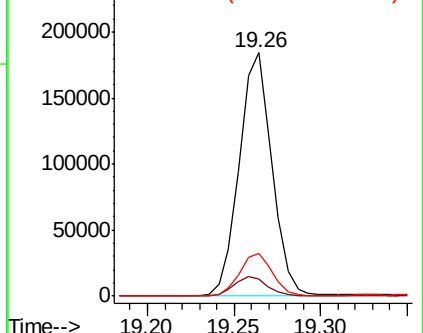
203 17.6 13.8 20.6

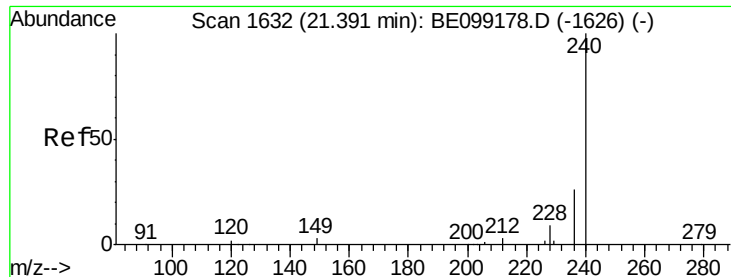


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.38 min Scan# 1631

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519

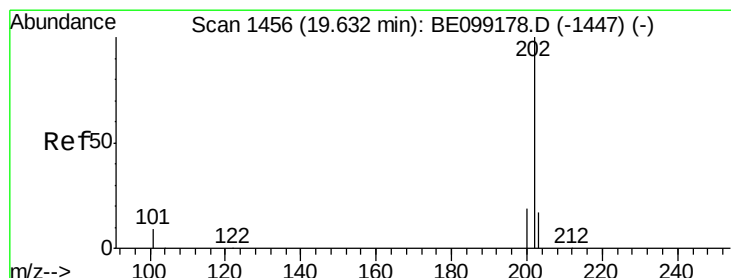
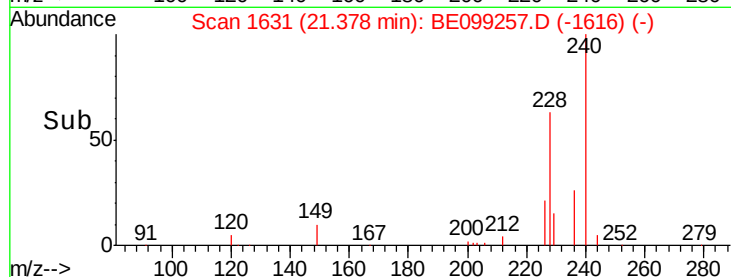
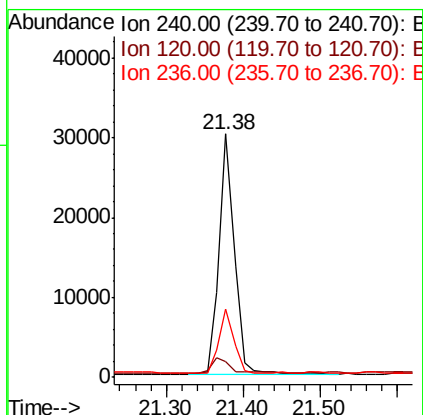
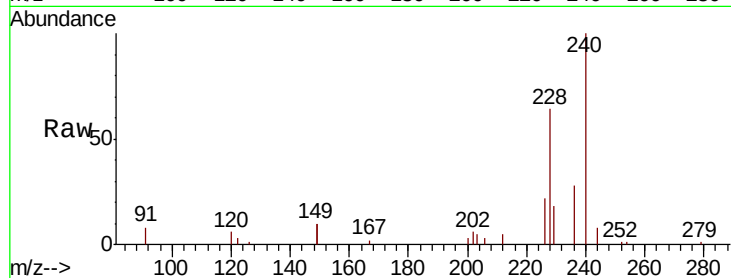
Tgt Ion:240 Resp: 42088

Ion Ratio Lower Upper

240 100

120 6.4 2.6 3.8#

236 27.8 20.9 31.3



#28

Pyrene

Concen: 1.497 ng

RT: 19.63 min Scan# 1455

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

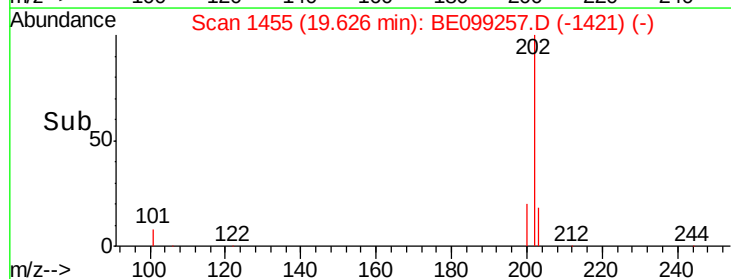
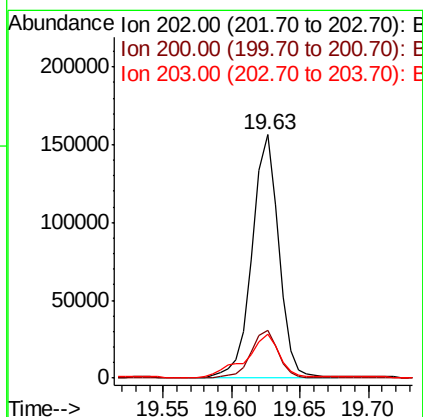
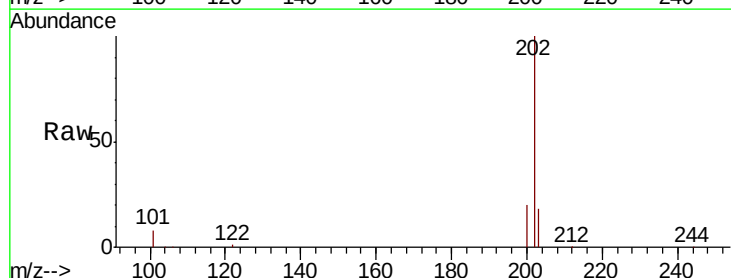
Tgt Ion:202 Resp: 209374

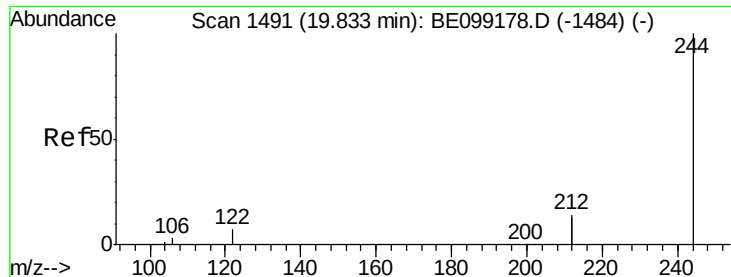
Ion Ratio Lower Upper

202 100

200 19.8 15.8 23.8

203 22.5 14.1 21.1#





#29

Terphenyl-d14

Concen: 0.143 ng

RT: 19.83 min Scan# 1490

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519

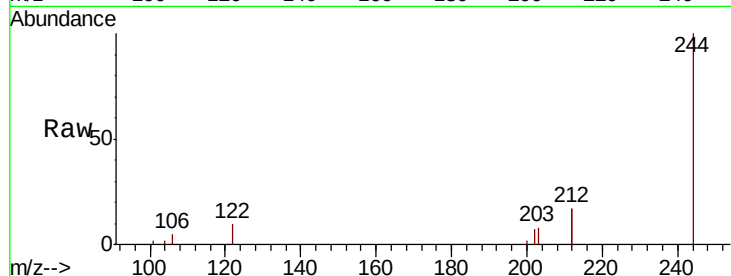
Tgt Ion:244 Resp: 13122

Ion Ratio Lower Upper

244 100

212 34.0 22.7 34.1

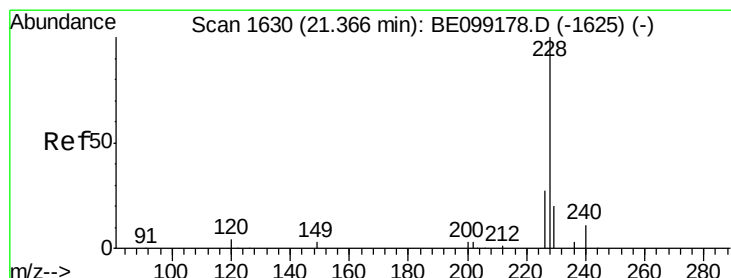
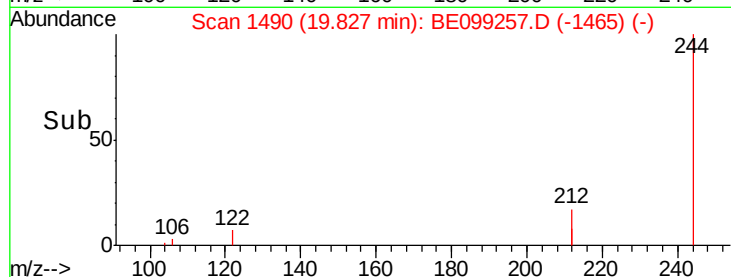
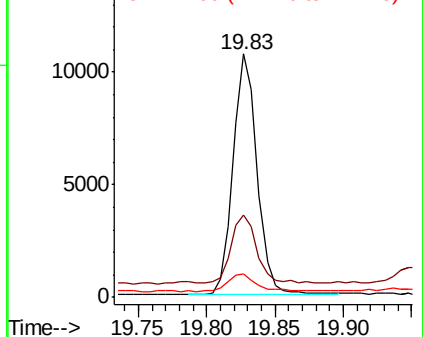
122 9.8 5.8 8.6#



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: 1.011 ng

RT: 21.37 min Scan# 1630

Delta R.T. -0.00 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

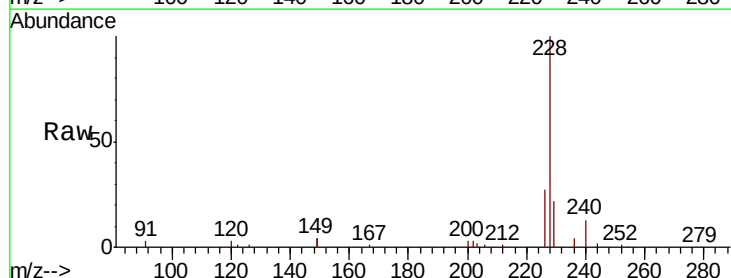
Tgt Ion:228 Resp: 140428

Ion Ratio Lower Upper

228 100

226 27.2 21.7 32.5

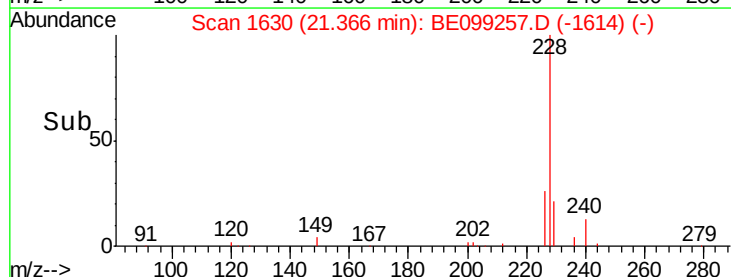
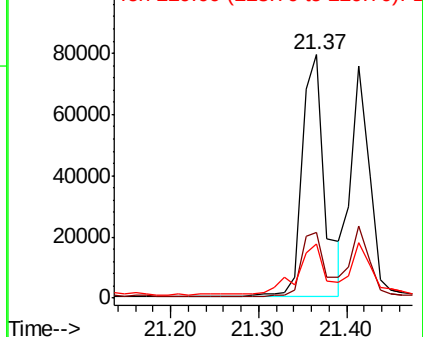
229 22.3 15.9 23.9

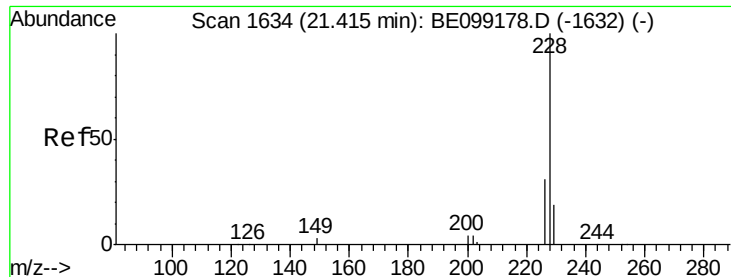


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.905 ng

RT: 21.37 min Scan# 1630

Delta R.T. -0.05 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519

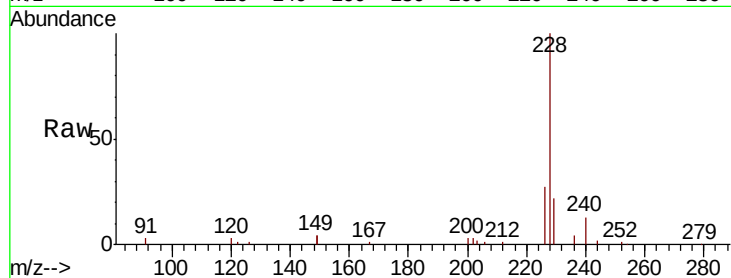
Tgt Ion:228 Resp: 134351

Ion Ratio Lower Upper

228 100

226 27.2 24.8 37.2

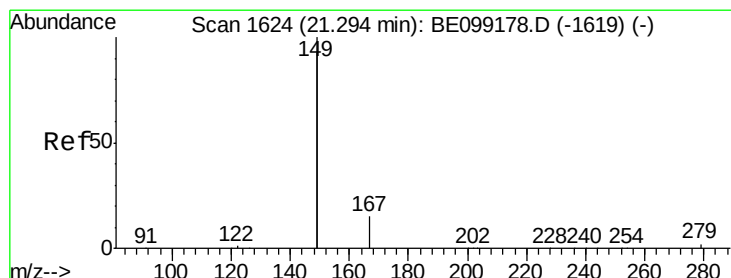
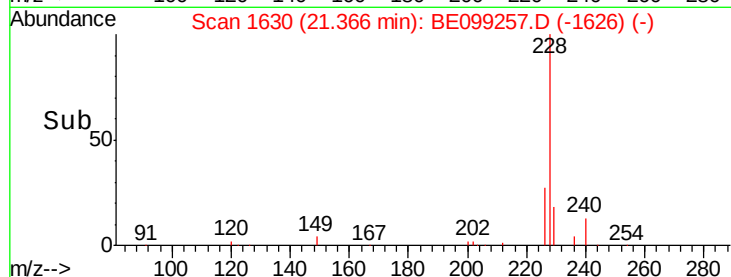
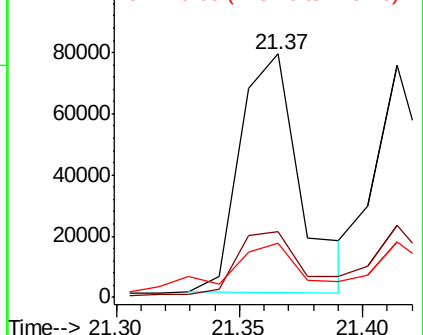
229 22.3 15.4 23.0



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: 0.050 ng

RT: 21.28 min Scan# 1623

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

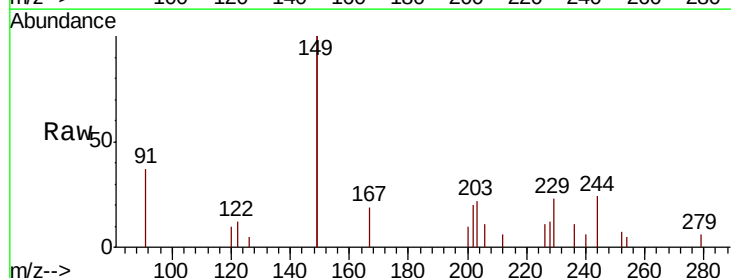
Tgt Ion:149 Resp: 8211

Ion Ratio Lower Upper

149 100

167 9.7 5.9 8.9#

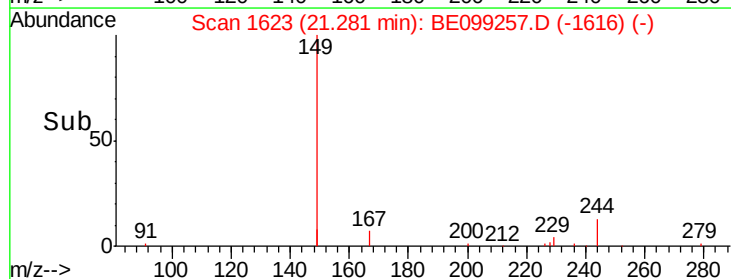
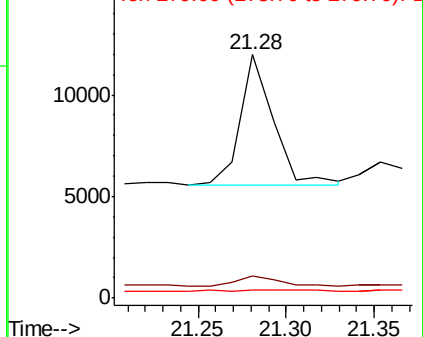
279 0.0 1.0 1.6#



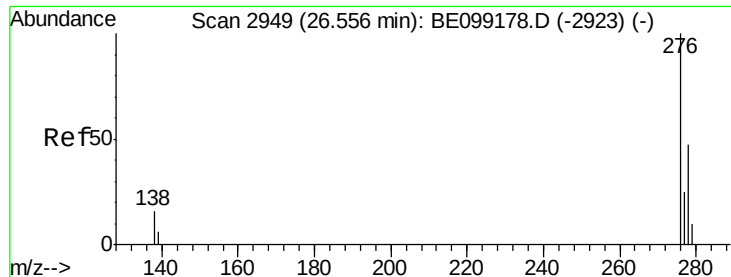
Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.312 ng

RT: 26.53 min Scan# 2943

Delta R.T. -0.02 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519

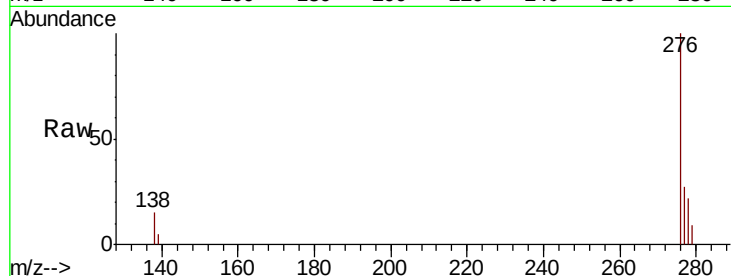
Tgt Ion:276 Resp: 43876

Ion Ratio Lower Upper

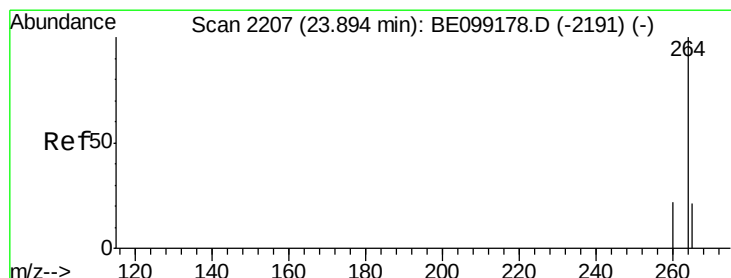
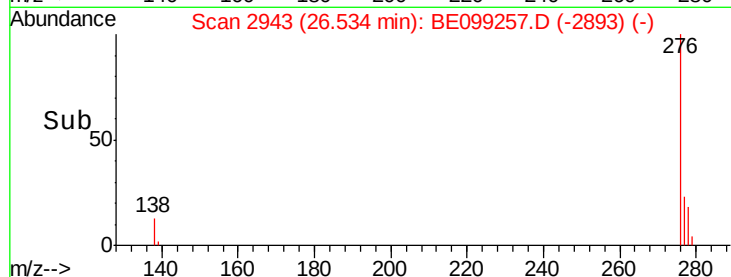
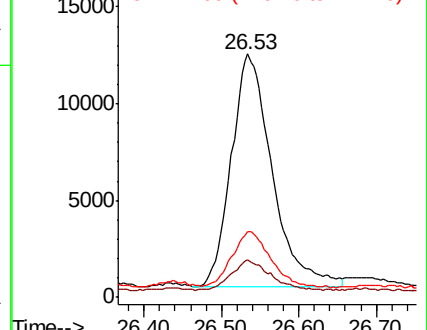
276 100

138 11.8 12.9 19.3#

277 21.8 18.3 27.5



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: 23.89 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

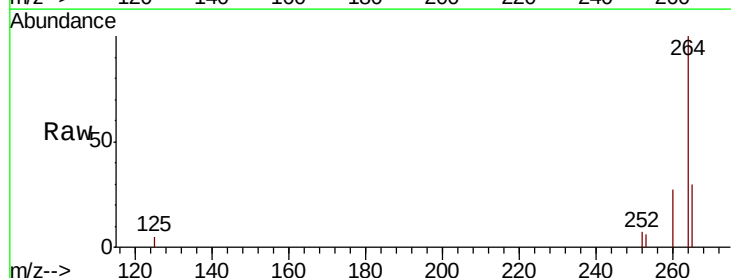
Tgt Ion:264 Resp: 41121

Ion Ratio Lower Upper

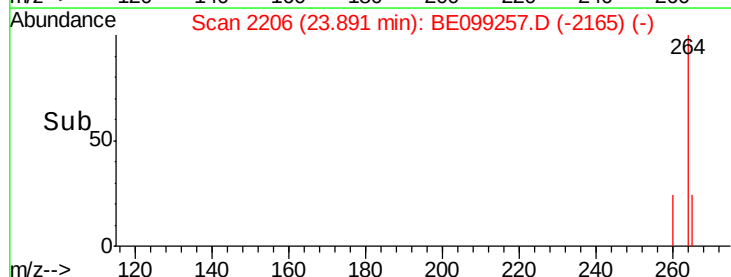
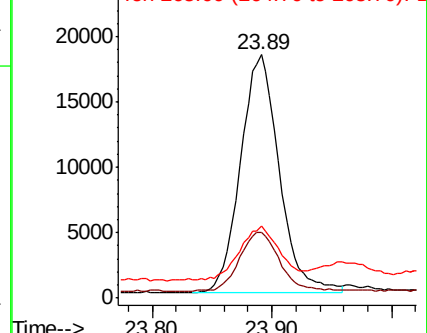
264 100

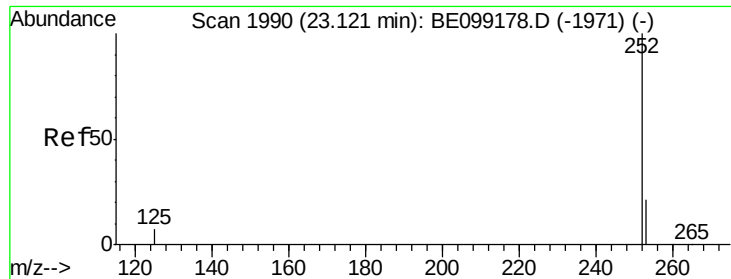
260 27.2 18.2 27.2

265 29.6 21.8 32.8



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: 0.826 ng

RT: 23.12 min Scan# 1989

Delta R.T. -0.00 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519

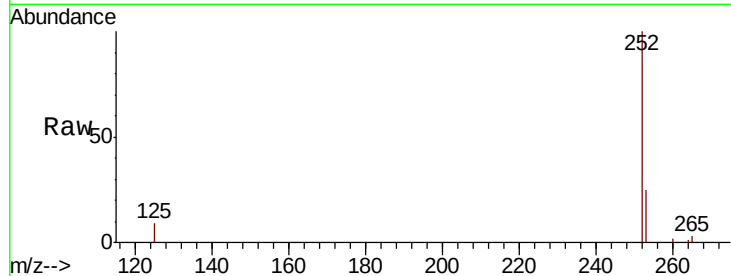
Tgt Ion:252 Resp: 111710

Ion Ratio Lower Upper

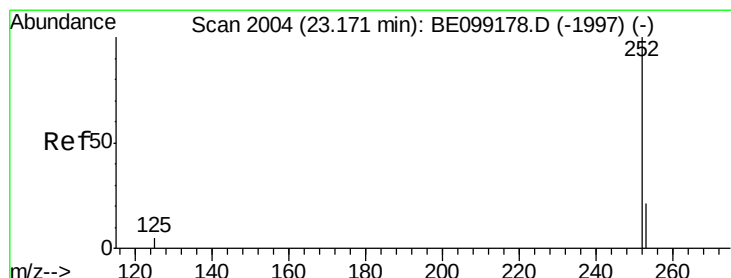
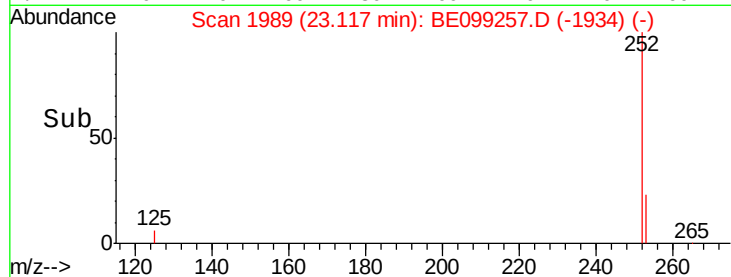
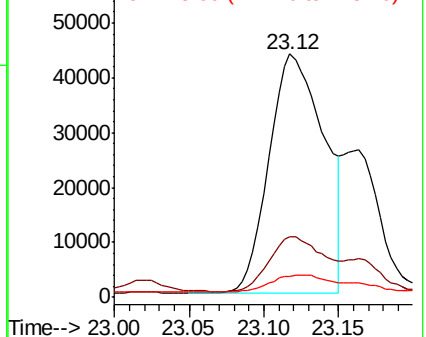
252 100

253 24.9 17.8 26.8

125 8.8 6.1 9.1



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: 0.781 ng

RT: 23.12 min Scan# 1989

Delta R.T. -0.05 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

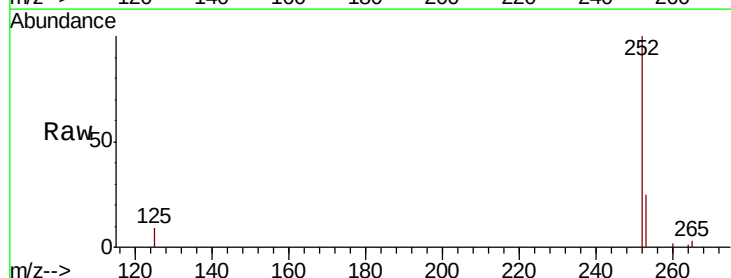
Tgt Ion:252 Resp: 111710

Ion Ratio Lower Upper

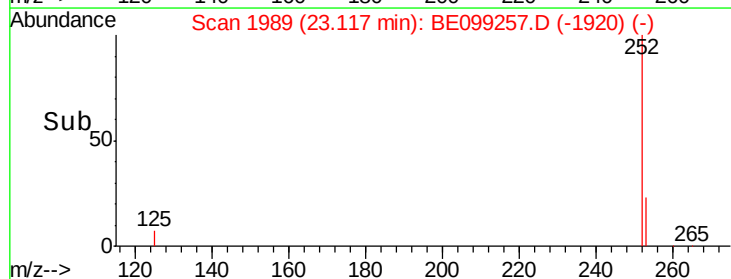
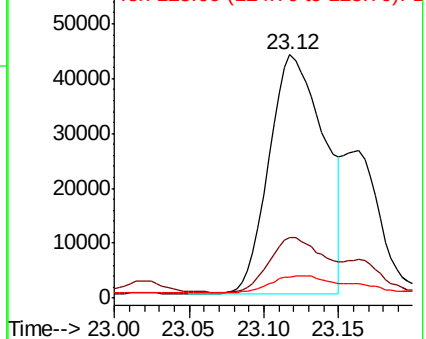
252 100

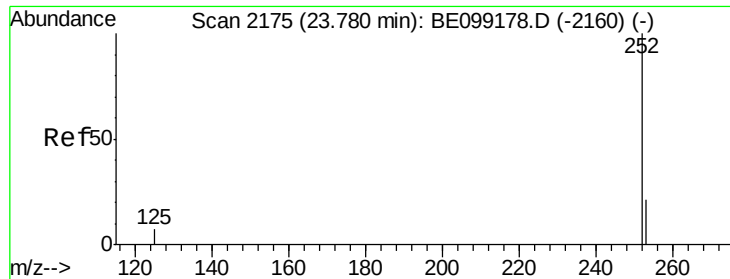
253 24.9 17.8 26.6

125 8.8 5.9 8.9



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: 0.645 ng

RT: 23.77 min Scan# 2173

Delta R.T. -0.01 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519

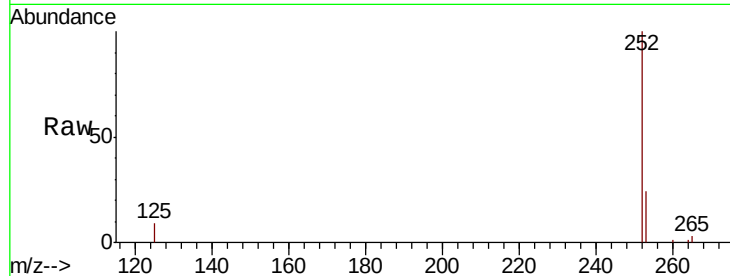
Tgt Ion:252 Resp: 81563

Ion Ratio Lower Upper

252 100

253 24.4 18.1 27.1

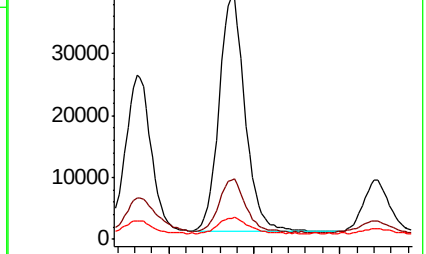
125 8.7 6.8 10.2



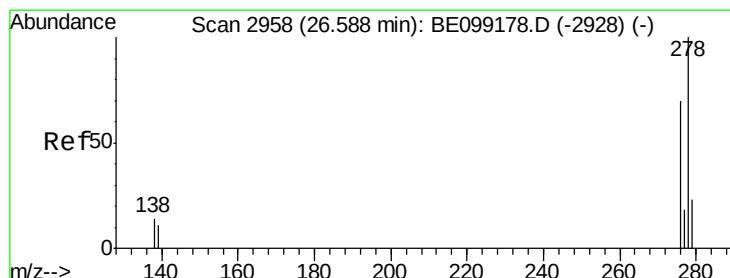
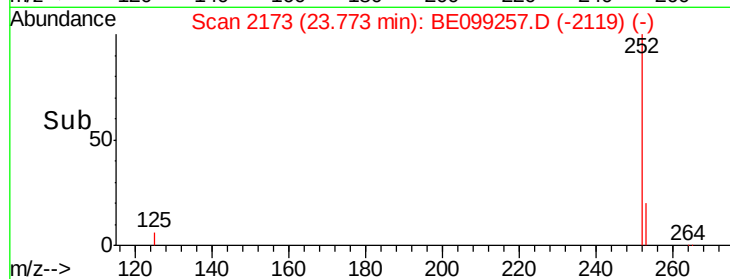
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



Time-->



#38

Dibenzo(a,h)anthracene

Concen: 0.107 ng

RT: 26.56 min Scan# 2949

Delta R.T. -0.03 min

Lab File: BE099257.D

Acq: 29 Mar 2019 16:27

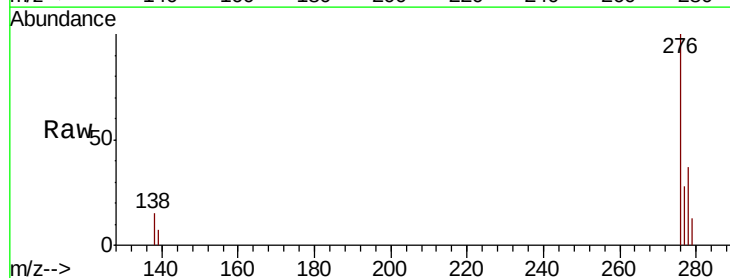
Tgt Ion:278 Resp: 12004

Ion Ratio Lower Upper

278 100

139 18.9 9.5 14.3#

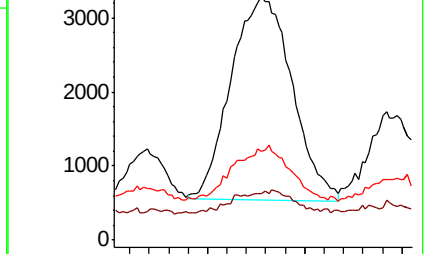
279 36.6 19.1 28.7#



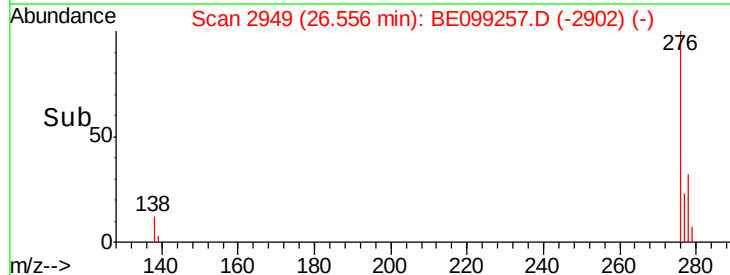
Abundance Ion 278.00 (277.70 to 278.70): E

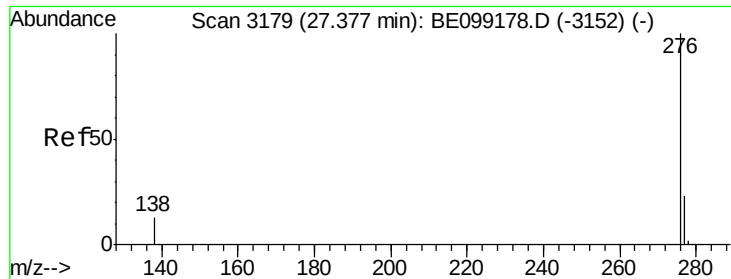
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->





#39

Benzo(g,h,i)perylene

Concen: 0.367 ng

RT: 27.35 min Scan# 3172

Delta R.T. -0.03 min

Lab File: BE099257.D

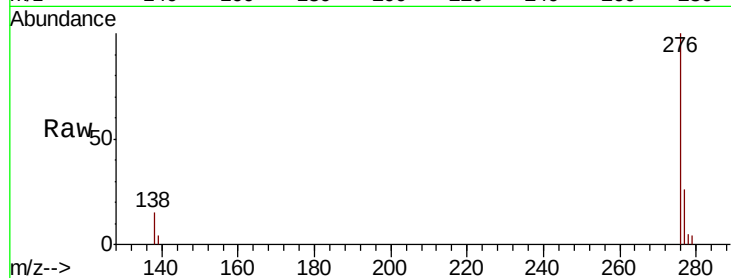
Acq: 29 Mar 2019 16:27

Instrument :

BNA\_E

ClientSampleId :

EXT-027-SW024-032519



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 41334 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 26.2  | 19.0  | 28.4  |
| 138       | 14.5  | 11.1  | 16.7  |

