

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE121018\  
 Data File : BE098298.D  
 Acq On : 10 Dec 2018 14:17  
 Operator : SJ/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDICC3.2

Quant Time: Dec 10 14:56:03 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 10 13:04:34 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 1732     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.65 | 136  | 7374     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.53 | 164  | 4590     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.28 | 188  | 12739    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.46 | 240  | 13270    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.01 | 264  | 11714    | 0.40 | ng    | 0.00     |

|                             |       |     |        |      |    |       |
|-----------------------------|-------|-----|--------|------|----|-------|
| System Monitoring Compounds |       |     |        |      |    |       |
| 4) 2-Fluorophenol           | 5.45  | 112 | 13694  | 2.96 | ng | 0.00  |
| 5) Phenol-d6                | 7.04  | 99  | 20546  | 3.15 | ng | -0.01 |
| 8) Nitrobenzene-d5          | 9.02  | 82  | 23801  | 3.19 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 12.25 | 152 | 39084  | 3.26 | ng | -0.01 |
| 14) 2,4,6-Tribromophenol    | 0.00  | 330 | 0d     | 0.00 | ng |       |
| 15) 2-Fluorobiphenyl        | 13.15 | 172 | 58958  | 3.10 | ng | 0.00  |
| 25) Fluoranthene-d10        | 19.31 | 212 | 541775 | 3.15 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.90 | 244 | 106373 | 3.56 | ng | 0.00  |

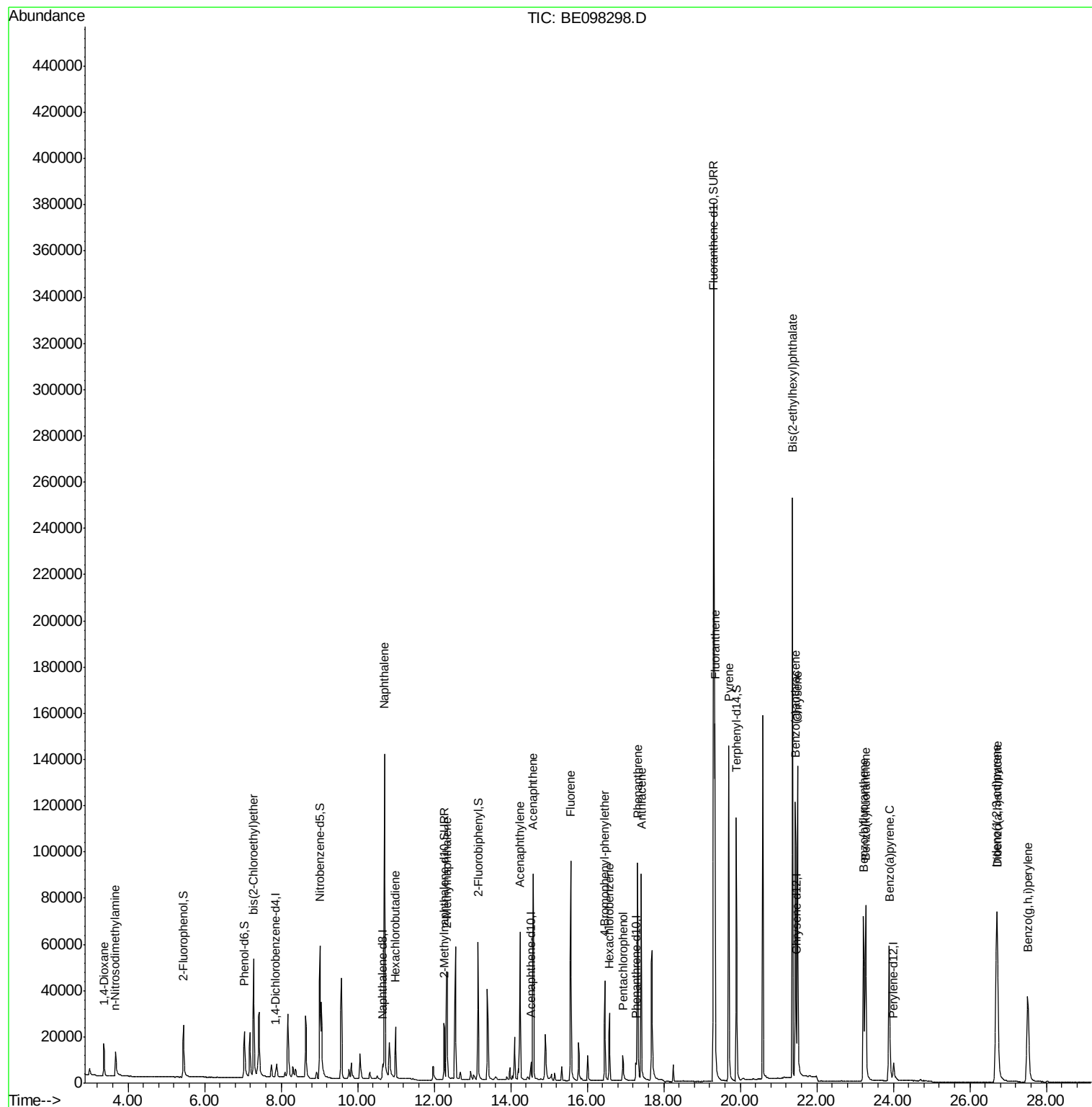
|                                |       |     |        |        |    |       |
|--------------------------------|-------|-----|--------|--------|----|-------|
| Target Compounds               |       |     |        | Qvalue |    |       |
| 2) 1,4-Dioxane                 | 3.37  | 88  | 8814   | 2.744  | ng | 97    |
| 3) n-Nitrosodimethylamine      | 3.67  | 42  | 10104  | 3.039  | ng | # 100 |
| 6) bis(2-Chloroethyl)ether     | 7.28  | 93  | 18403  | 3.069  | ng | 95    |
| 9) Naphthalene                 | 10.71 | 128 | 235726 | 3.182  | ng | 99    |
| 10) Hexachlorobutadiene        | 10.99 | 225 | 14831  | 3.121  | ng | 98    |
| 12) 2-Methylnaphthalene        | 12.34 | 142 | 40018  | 3.253  | ng | 98    |
| 16) Acenaphthylene             | 14.24 | 152 | 71988  | 3.360  | ng | 99    |
| 17) Acenaphthene               | 14.59 | 154 | 43264  | 3.389  | ng | 99    |
| 18) Fluorene                   | 15.57 | 166 | 59047  | 3.488  | ng | 99    |
| 20) 4-Bromophenyl-phenylether  | 16.46 | 248 | 22926  | 3.180  | ng | # 83  |
| 21) Hexachlorobenzene          | 16.58 | 284 | 23261  | 3.119  | ng | 97    |
| 22) Pentachlorophenol          | 16.93 | 266 | 7116   | 2.944  | ng | 90    |
| 23) Phenanthrene               | 17.31 | 178 | 100477 | 3.176  | ng | 99    |
| 24) Anthracene                 | 17.41 | 178 | 96977  | 3.291  | ng | 100   |
| 26) Fluoranthene               | 19.34 | 202 | 136156 | 3.153  | ng | 100   |
| 28) Pyrene                     | 19.70 | 202 | 138179 | 3.759  | ng | 99    |
| 30) Benzo(a)anthracene         | 21.44 | 228 | 124398 | 3.183  | ng | 98    |
| 31) Chrysene                   | 21.50 | 228 | 123960 | 3.123  | ng | 99    |
| 32) Bis(2-ethylhexyl)phthalate | 21.37 | 149 | 265768 | 2.840  | ng | 99    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.70 | 276 | 124120 | 3.093  | ng | 100   |
| 35) Benzo(b)fluoranthene       | 23.22 | 252 | 106429 | 3.099  | ng | # 93  |
| 36) Benzo(k)fluoranthene       | 23.27 | 252 | 123474 | 3.424  | ng | # 95  |
| 37) Benzo(a)pyrene             | 23.89 | 252 | 107773 | 3.258  | ng | # 92  |
| 38) Dibenzo(a,h)anthracene     | 26.72 | 278 | 103923 | 3.313  | ng | # 92  |
| 39) Benzo(g,h,i)perylene       | 27.52 | 276 | 103283 | 3.286  | ng | 96    |

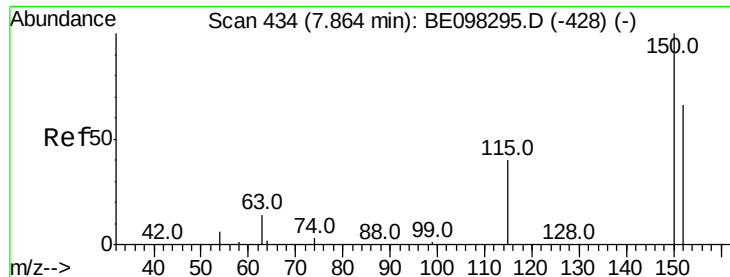
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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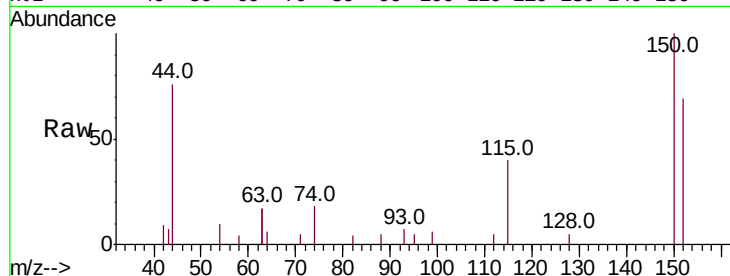


#1

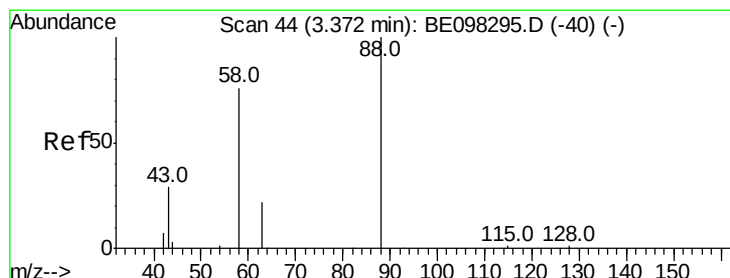
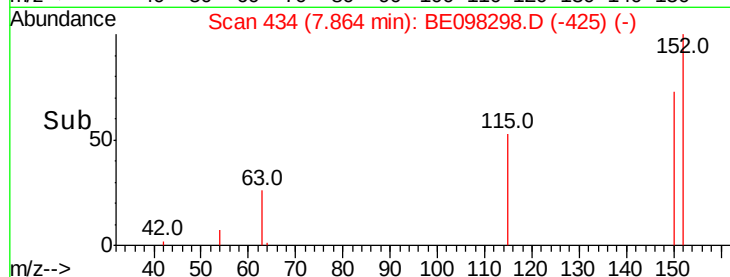
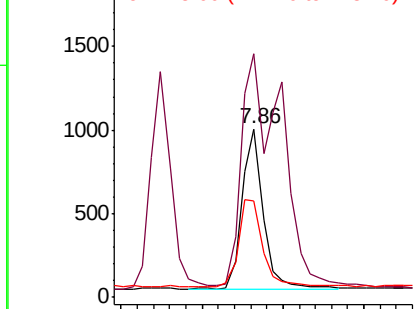
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.86 min Scan# 434  
Delta R.T. 0.00 min  
Lab File: BE098298.D  
Acq: 10 Dec 2018 14:17

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC3.2

Tot Ion:152 Resp: 1732  
Ion Ratio Lower Upper  
152 100  
150 144.9 124.2 186.4  
115 57.5 53.9 80.9



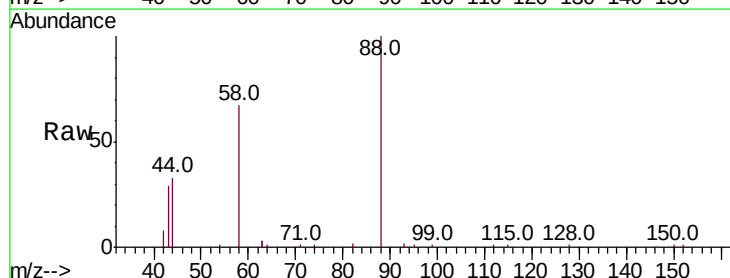
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



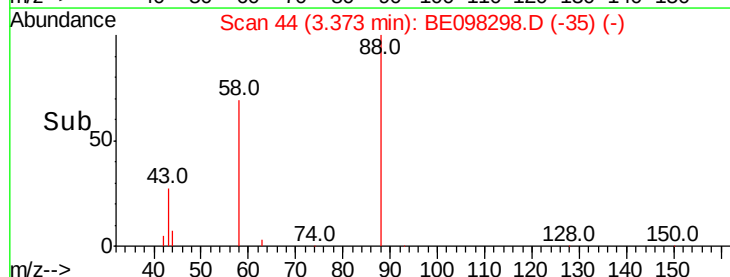
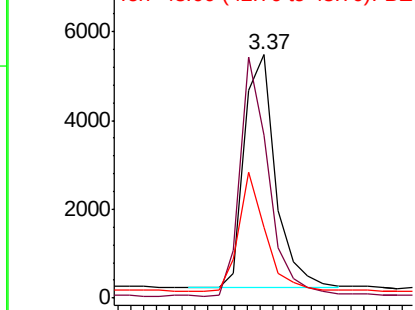
#2

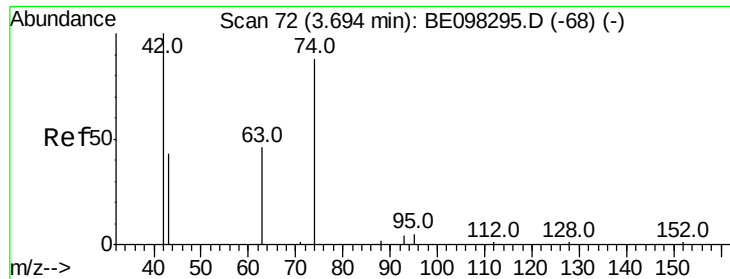
1,4-Dioxane  
Concen: 2.744 ng  
RT: 3.37 min Scan# 44  
Delta R.T. 0.00 min  
Lab File: BE098298.D  
Acq: 10 Dec 2018 14:17

Tgt Ion: 88 Resp: 8814  
Ion Ratio Lower Upper  
88 100  
58 92.7 75.0 112.6  
43 43.6 38.3 57.5



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: 3.039 ng

RT: 3.67 min Scan# 70

Delta R.T. -0.02 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

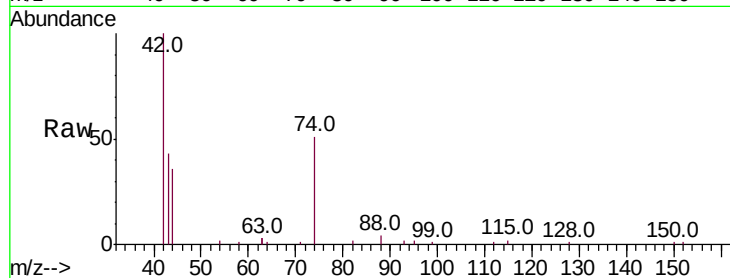
Tot Ion: 42 Resp: 10104

Ion Ratio Lower Upper

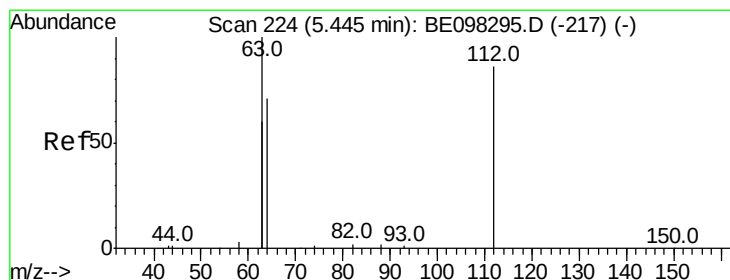
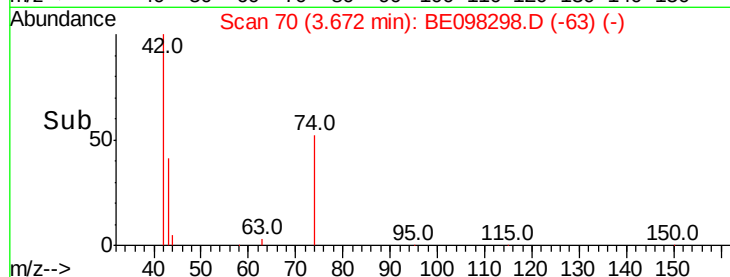
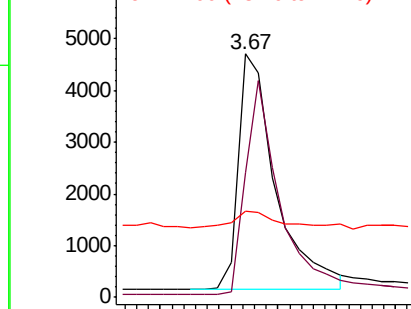
42 100

74 83.6 0.0 0.0#

44 7.7 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: 2.961 ng

RT: 5.45 min Scan# 224

Delta R.T. 0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

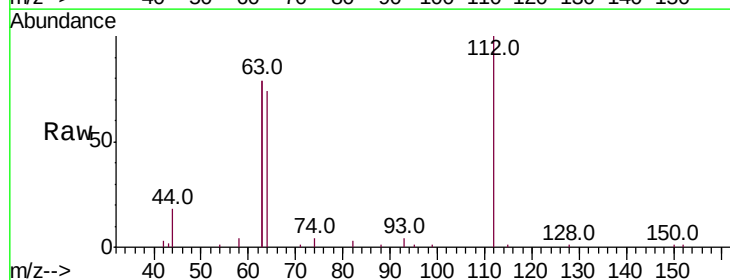
Tgt Ion: 112 Resp: 13694

Ion Ratio Lower Upper

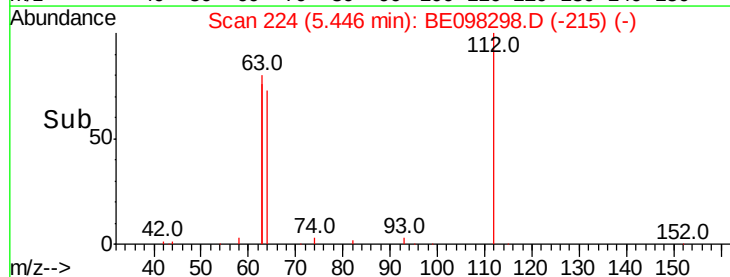
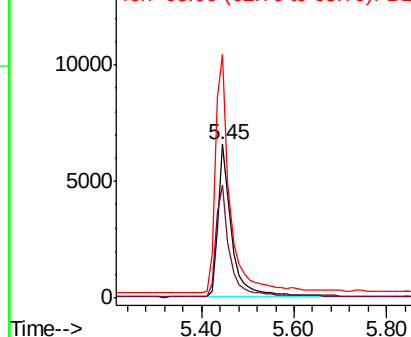
112 100

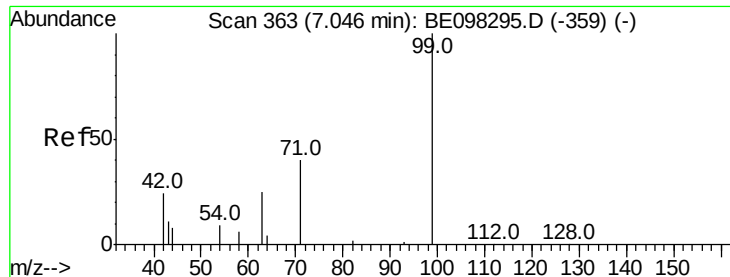
64 75.4 59.8 89.8

63 164.2 133.7 200.5



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: 3.153 ng

RT: 7.04 min Scan# 362

Delta R.T. -0.01 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

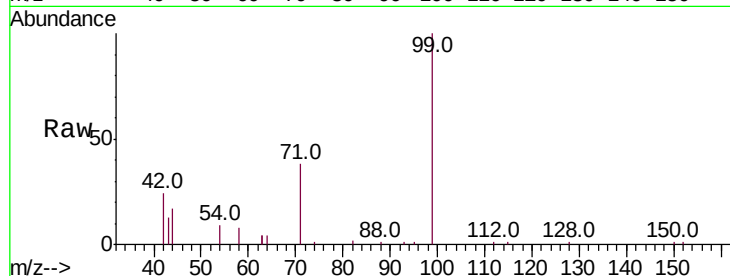
Tot Ion: 99 Resp: 20546

Ion Ratio Lower Upper

99 100

42 27.7 26.3 39.5

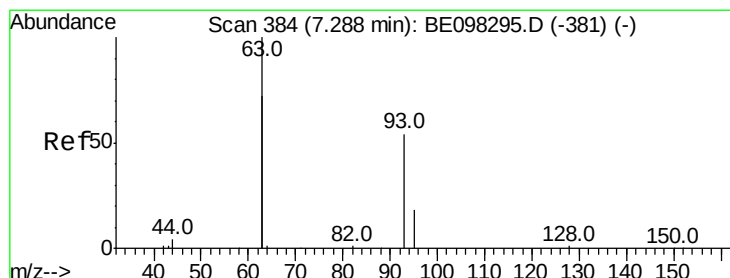
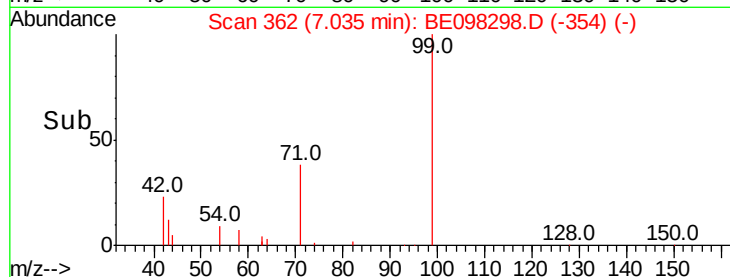
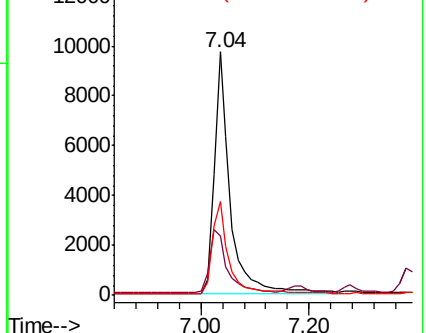
71 39.8 33.6 50.4



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



#6

bis(2-Chloroethyl)ether

Concen: 3.069 ng

RT: 7.28 min Scan# 383

Delta R.T. -0.01 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

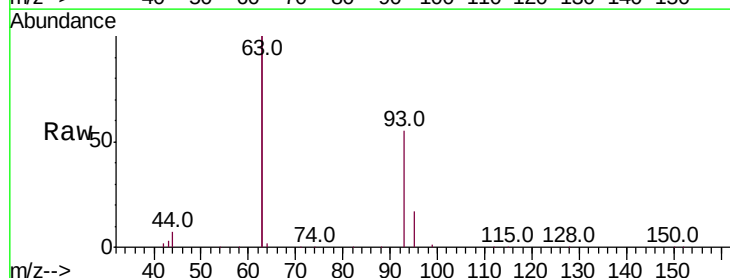
Tgt Ion: 93 Resp: 18403

Ion Ratio Lower Upper

93 100

63 341.9 264.4 396.6

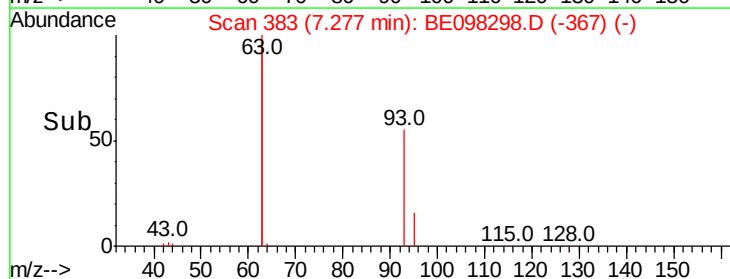
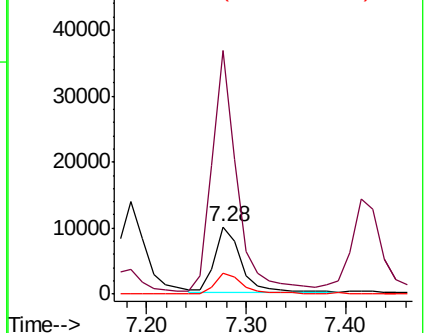
95 31.7 26.6 40.0

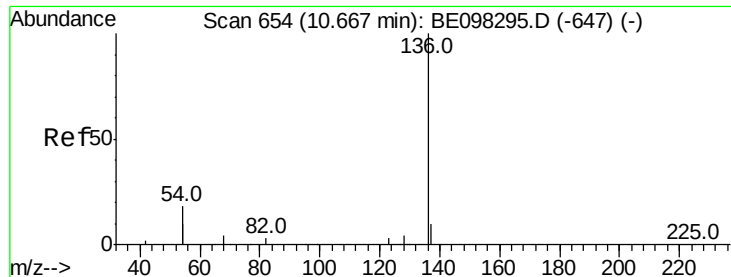


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

Tot Ion:136 Resp: 7374

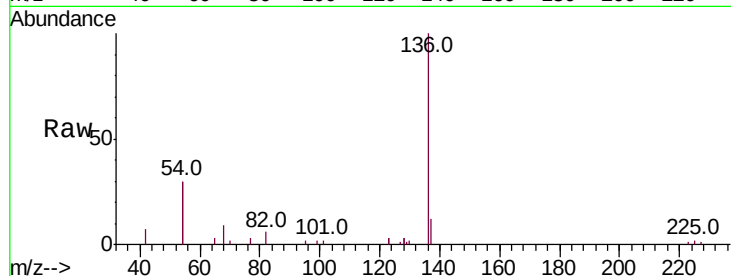
Ion Ratio Lower Upper

136 100

137 11.7 9.2 13.8

54 60.8 28.4 42.6#

68 9.2 5.4 8.0#

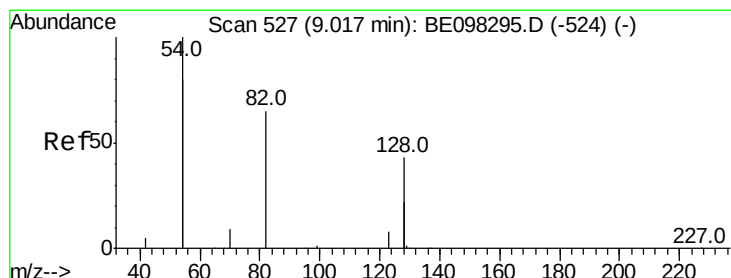
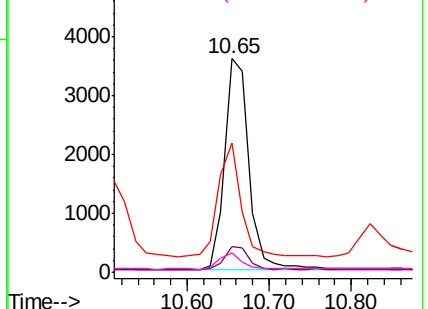
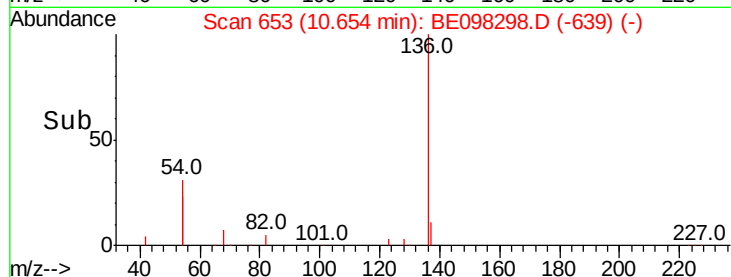


Abundance Ion 136.00 (135.70 to 136.70): E

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: 3.187 ng

RT: 9.02 min Scan# 527

Delta R.T. 0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

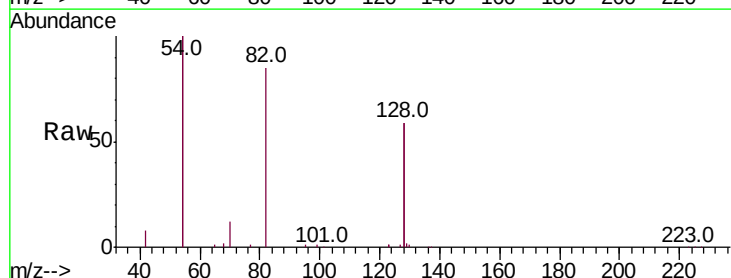
Tgt Ion: 82 Resp: 23801

Ion Ratio Lower Upper

82 100

128 139.4 102.4 153.6

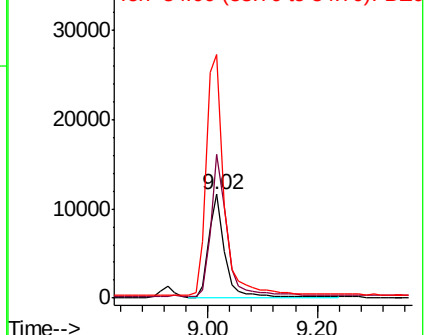
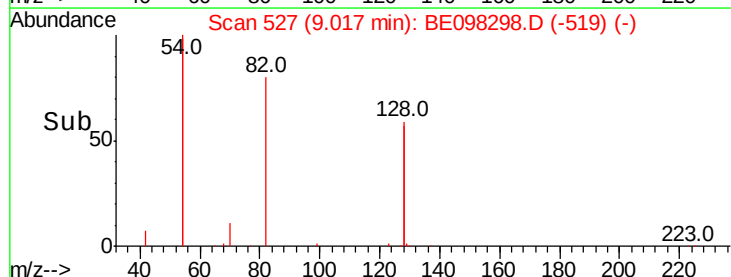
54 235.3 221.8 332.8

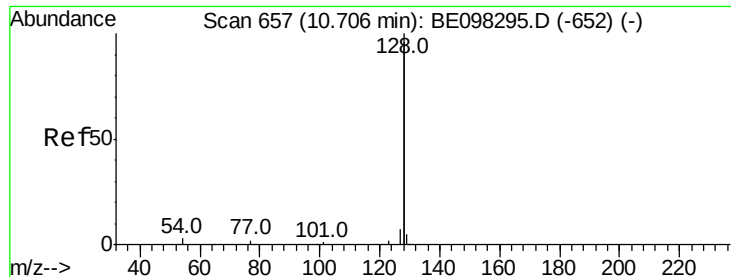


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 3.182 ng

RT: 10.71 min Scan# 657

Delta R.T. 0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

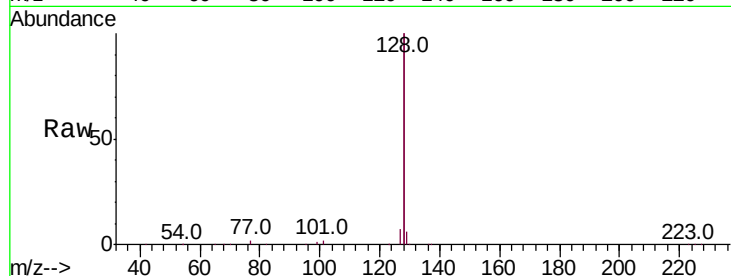
Tot Ion:128 Resp: 235726

Ion Ratio Lower Upper

128 100

129 2.8 2.5 3.7

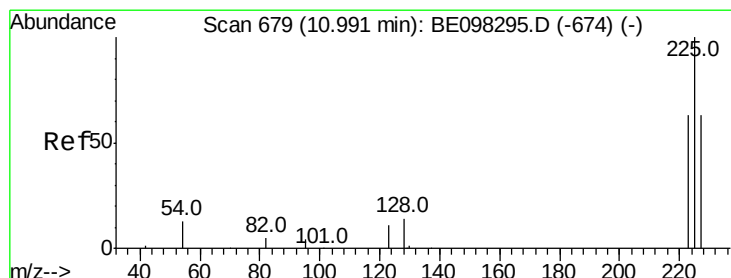
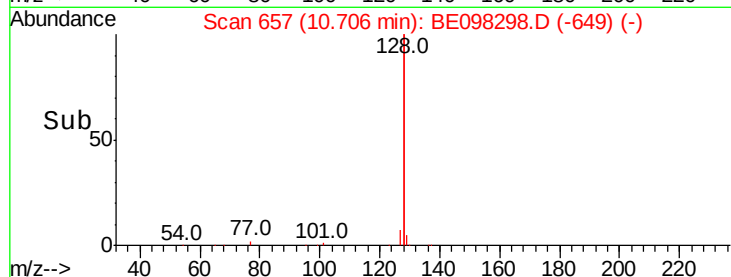
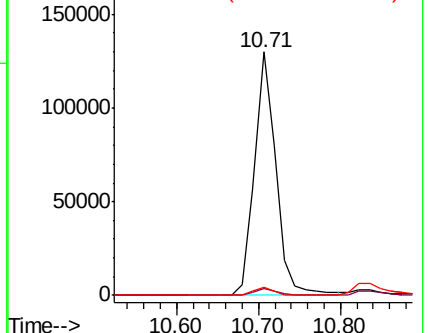
127 3.4 2.7 4.1



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: 3.121 ng

RT: 10.99 min Scan# 679

Delta R.T. 0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

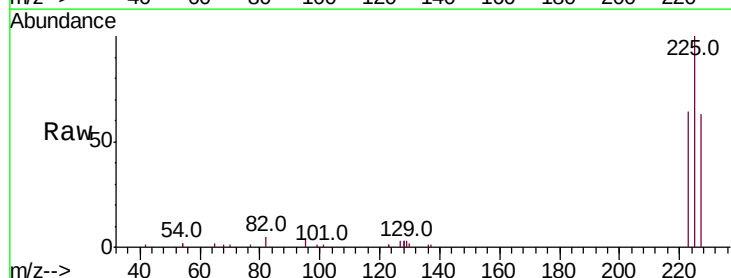
Tgt Ion:225 Resp: 14831

Ion Ratio Lower Upper

225 100

223 63.6 49.4 74.0

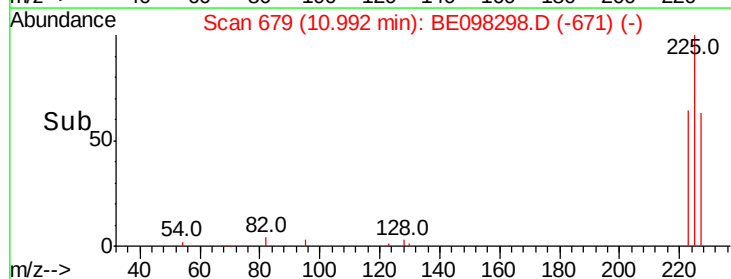
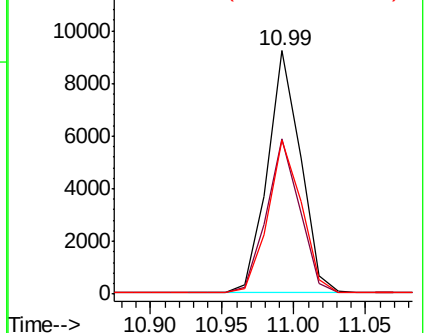
227 64.0 52.0 78.0

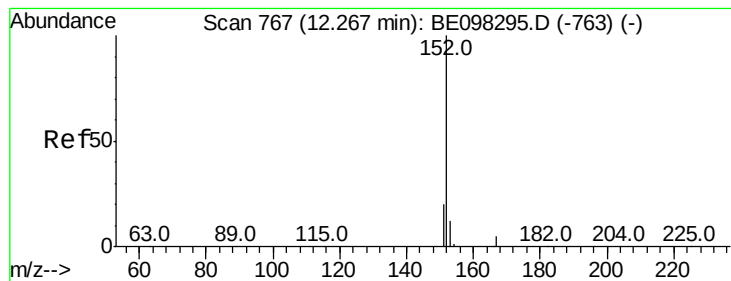


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 3.264 ng

RT: 12.25 min Scan# 766

Delta R.T. -0.01 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

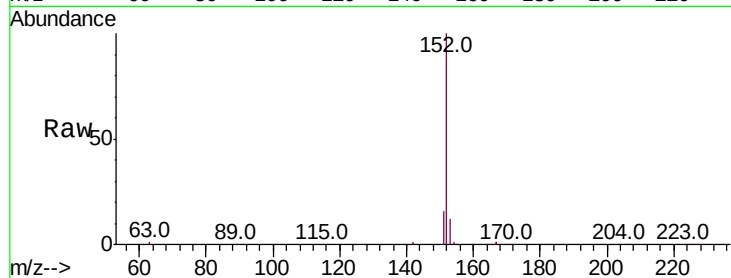
SSTDICC3.2

Tot Ion:152 Resp: 39084

Ion Ratio Lower Upper

152 100

151 19.1 16.2 24.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

20000

15000

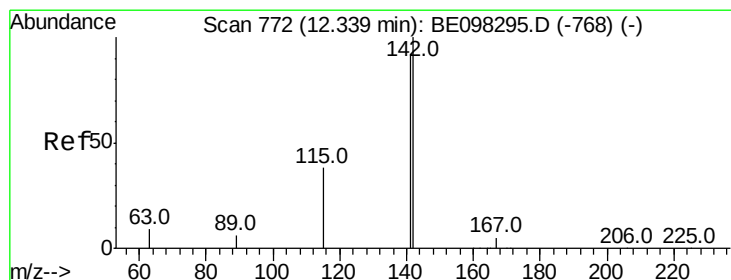
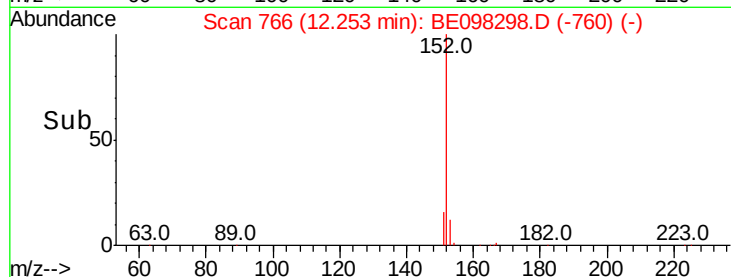
10000

5000

0

12.25

Time-->



#12

2-Methylnaphthalene

Concen: 3.253 ng

RT: 12.34 min Scan# 772

Delta R.T. 0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

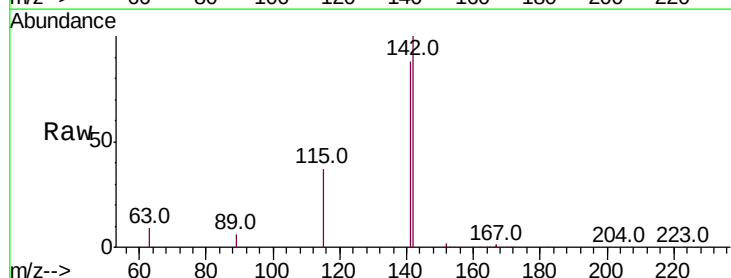
Tgt Ion:142 Resp: 40018

Ion Ratio Lower Upper

142 100

141 87.8 71.0 106.6

115 37.4 32.2 48.2



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

25000

20000

15000

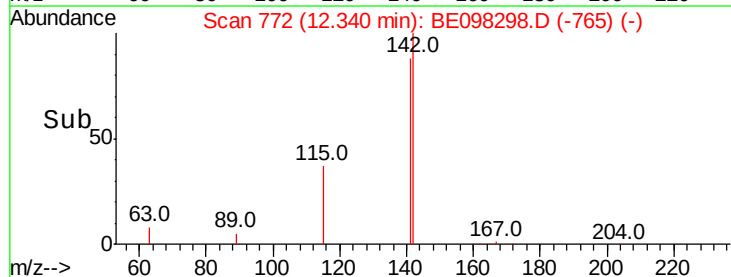
10000

5000

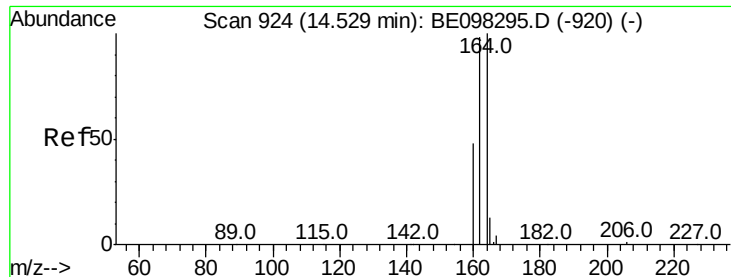
0

12.34

Time-->







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.53 min Scan# 924

Delta R.T. 0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

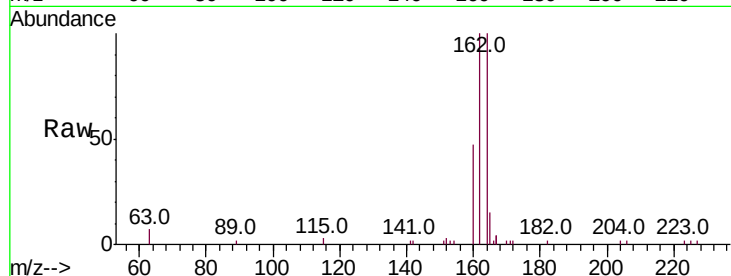
Tot Ion:164 Resp: 4590

Ion Ratio Lower Upper

164 100

162 100.0 77.6 116.4

160 47.4 36.0 54.0

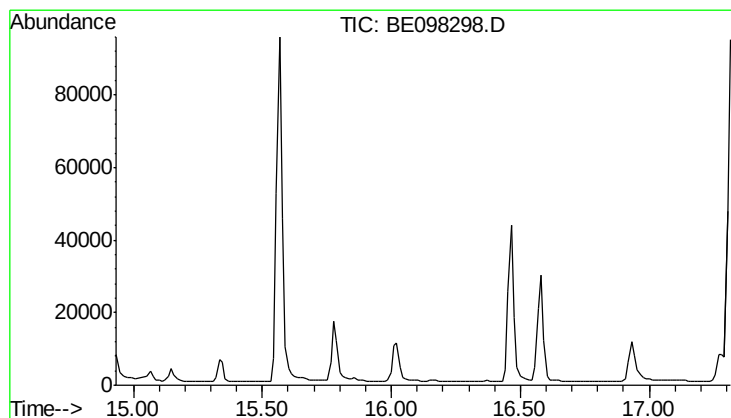
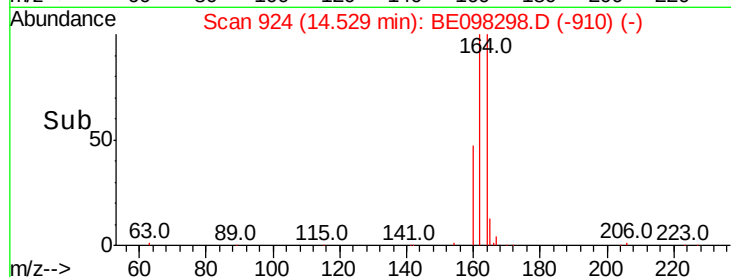
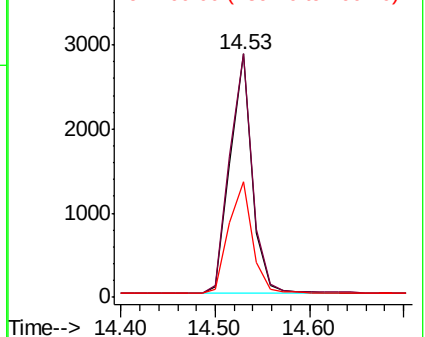


Abundance

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: 0.000 ng

Expected RT: 16.02 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

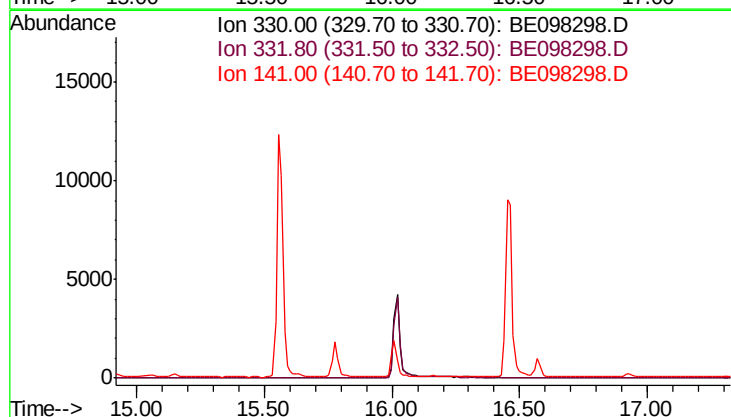
Tgt Ion: 330

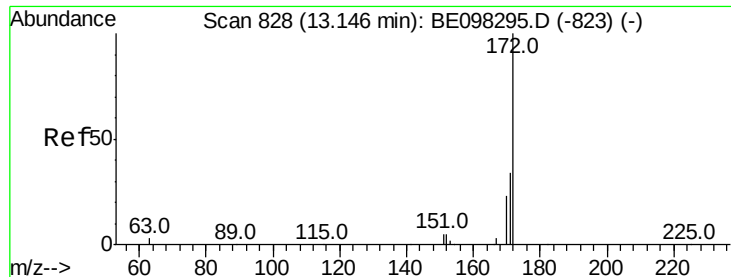
Sig Exp Ratio

330 100

332 95.3

141 48.7

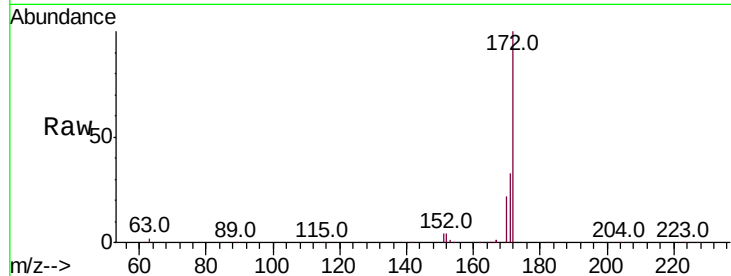




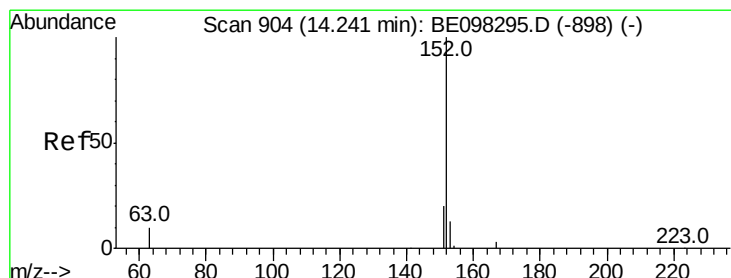
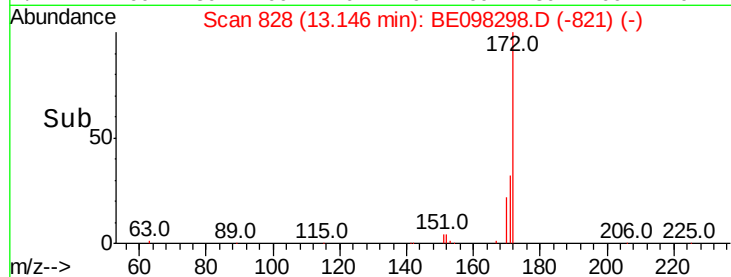
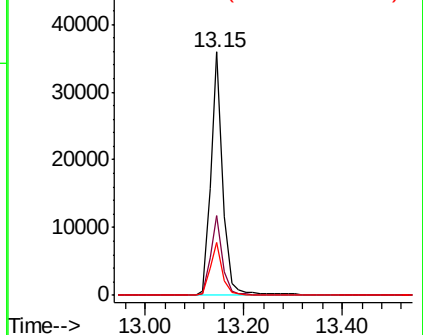
#15  
2-Fluorobiphenyl  
Concen: 3.102 ng  
RT: 13.15 min Scan# 828  
Delta R.T. 0.00 min  
Lab File: BE098298.D  
Acq: 10 Dec 2018 14:17

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC3.2

Tot Ion:172 Resp: 58958  
Ion Ratio Lower Upper  
172 100  
171 32.5 27.5 41.3  
170 21.9 19.6 29.4

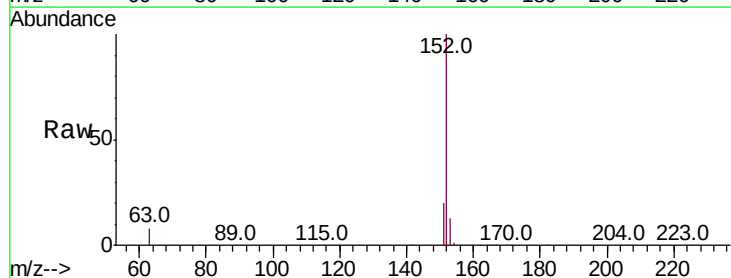


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

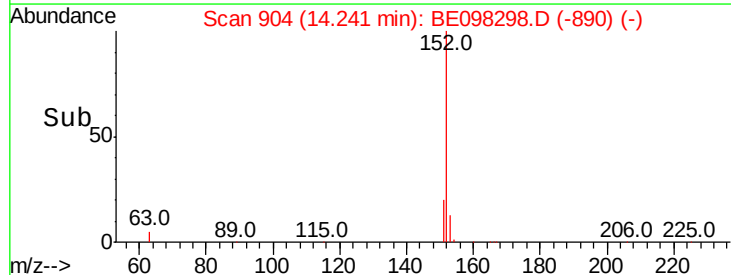
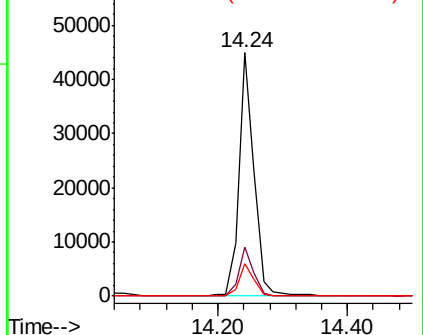


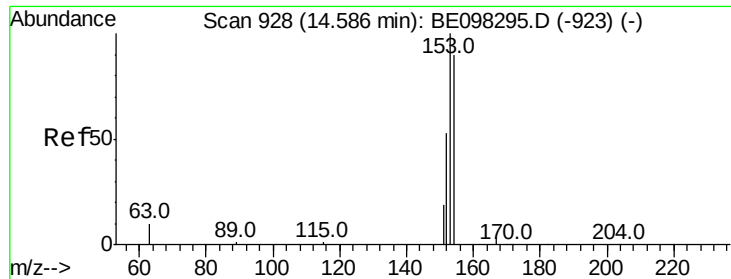
#16  
Acenaphthylene  
Concen: 3.360 ng  
RT: 14.24 min Scan# 904  
Delta R.T. 0.00 min  
Lab File: BE098298.D  
Acq: 10 Dec 2018 14:17

Tgt Ion:152 Resp: 71988  
Ion Ratio Lower Upper  
152 100  
151 19.8 15.5 23.3  
153 13.0 10.6 16.0



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

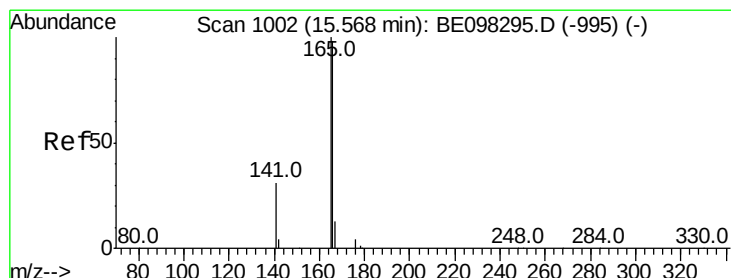
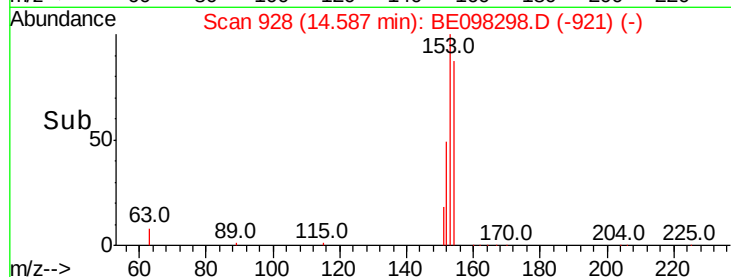
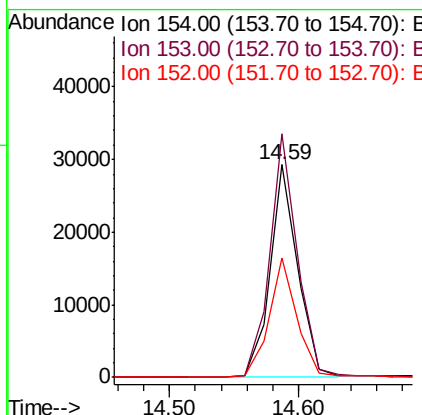
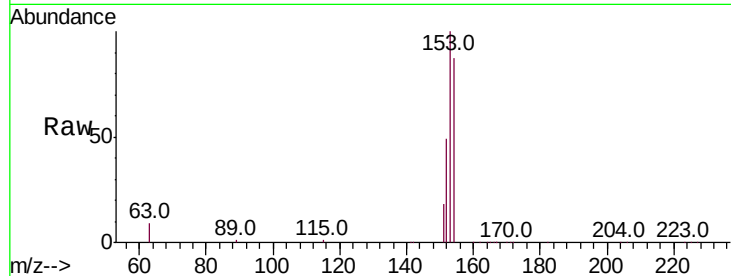




#17  
Acenaphthene  
Concen: 3.389 ng  
RT: 14.59 min Scan# 928  
Delta R.T. 0.00 min  
Lab File: BE098298.D  
Acq: 10 Dec 2018 14:17

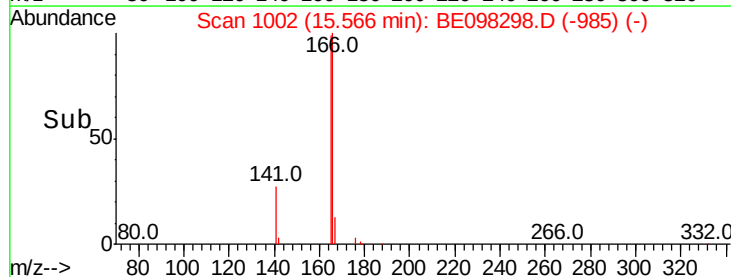
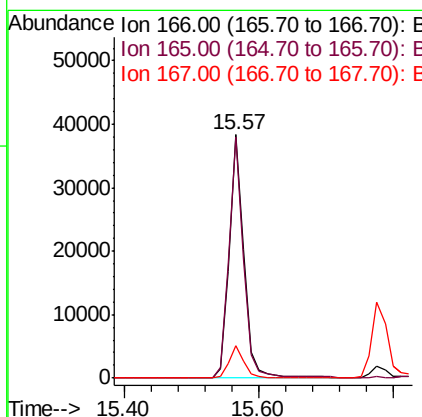
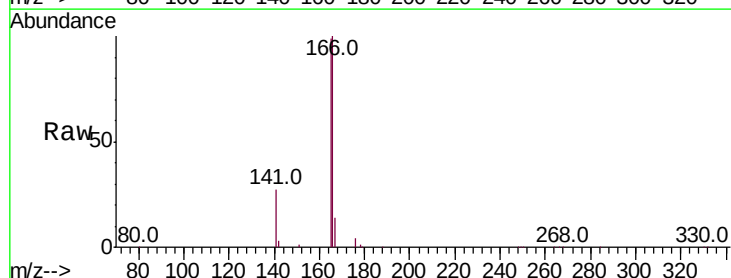
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC3.2

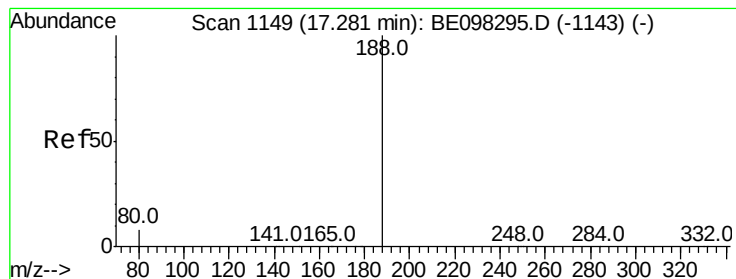
Tot Ion:154 Resp: 43264  
Ion Ratio Lower Upper  
154 100  
153 114.2 91.8 137.6  
152 55.9 45.5 68.3



#18  
Fluorene  
Concen: 3.488 ng  
RT: 15.57 min Scan# 1002  
Delta R.T. -0.00 min  
Lab File: BE098298.D  
Acq: 10 Dec 2018 14:17

Tgt Ion:166 Resp: 59047  
Ion Ratio Lower Upper  
166 100  
165 98.5 79.3 118.9  
167 13.4 11.3 16.9





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.28 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

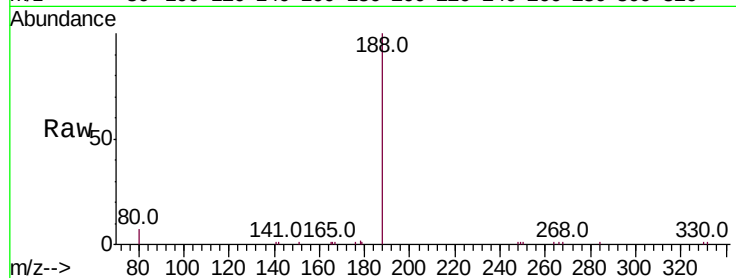
Tot Ion:188 Resp: 12739

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

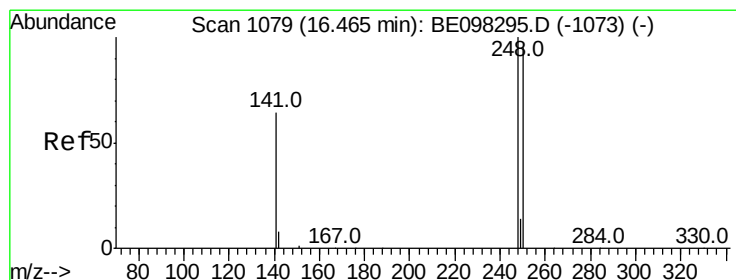
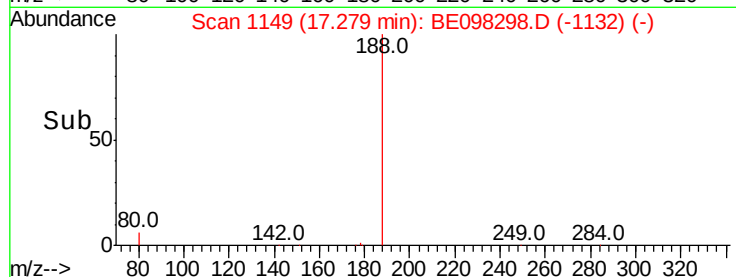
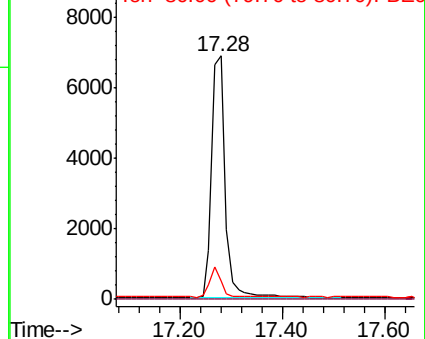
80 7.5 7.2 10.8



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: 3.180 ng

RT: 16.46 min Scan# 1079

Delta R.T. -0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

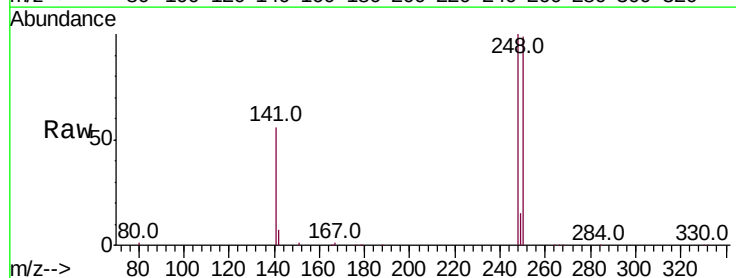
Tgt Ion:248 Resp: 22926

Ion Ratio Lower Upper

248 100

250 99.3 71.0 106.6

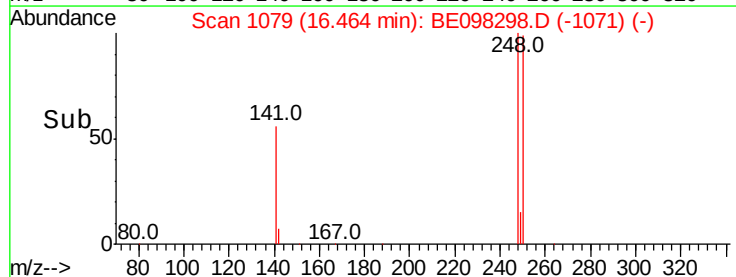
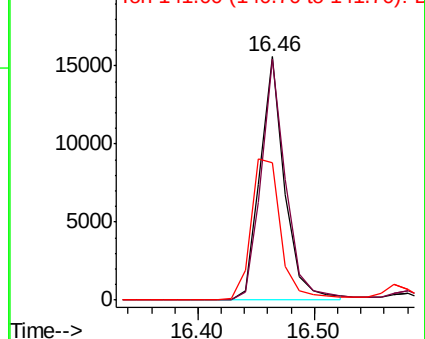
141 56.3 62.1 93.1#

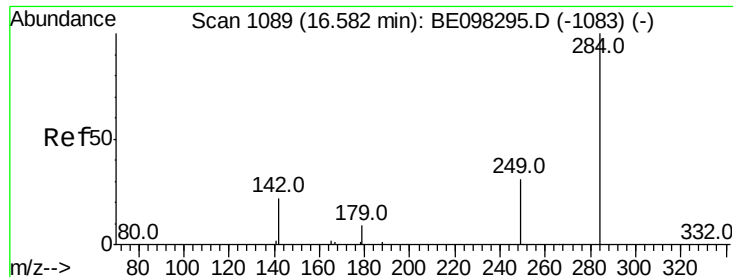


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 3.119 ng

RT: 16.58 min Scan# 1089

Delta R.T. -0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

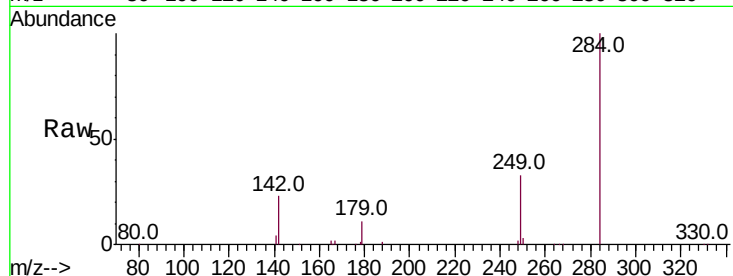
Tot Ion:284 Resp: 23261

Ion Ratio Lower Upper

284 100

142 34.8 26.3 39.5

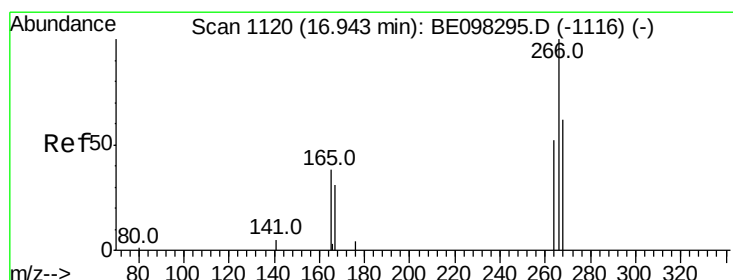
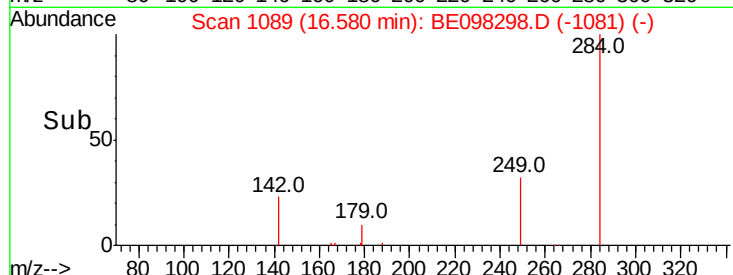
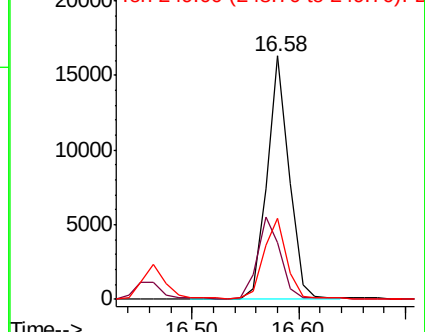
249 34.0 26.0 39.0



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: 2.944 ng

RT: 16.93 min Scan# 1119

Delta R.T. -0.01 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

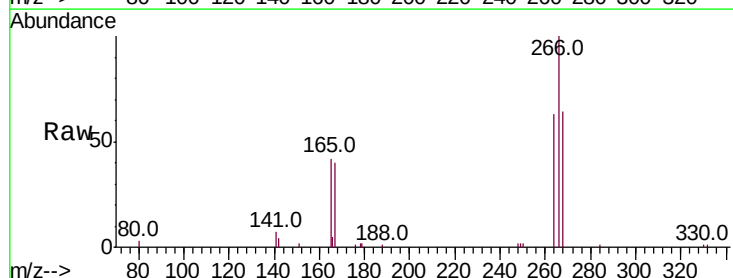
Tgt Ion:266 Resp: 7116

Ion Ratio Lower Upper

266 100

264 62.8 59.0 88.4

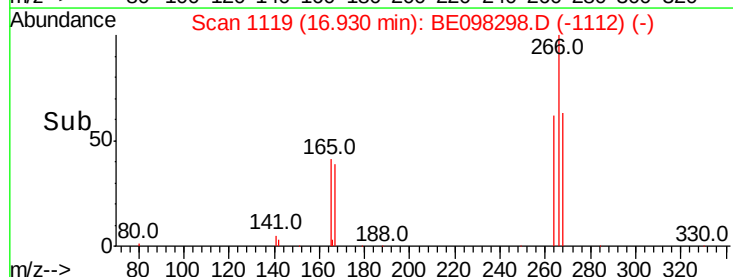
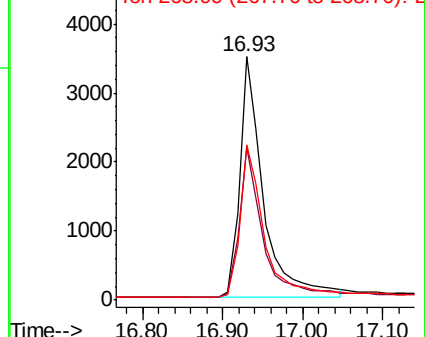
268 63.8 55.1 82.7

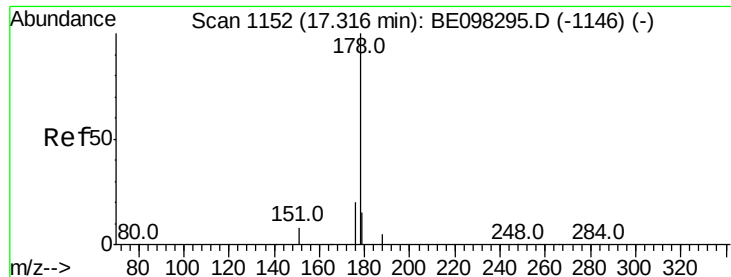


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 3.176 ng

RT: 17.31 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

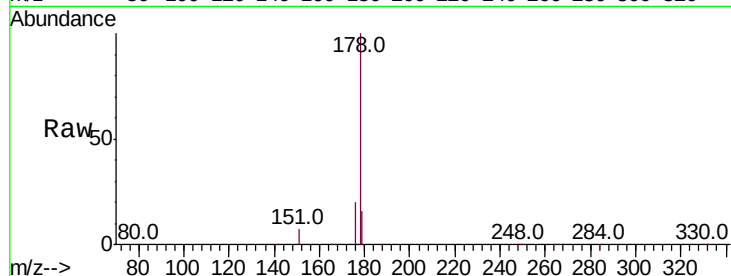
Tot Ion:178 Resp: 100477

Ion Ratio Lower Upper

178 100

176 19.5 15.9 23.9

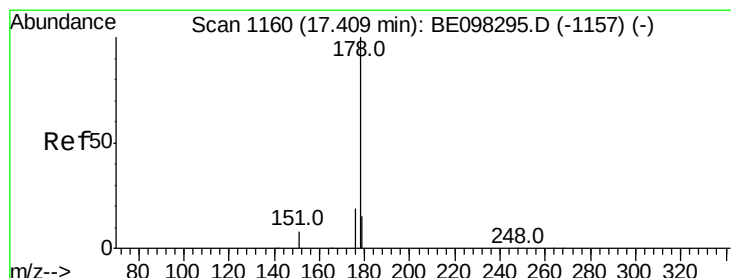
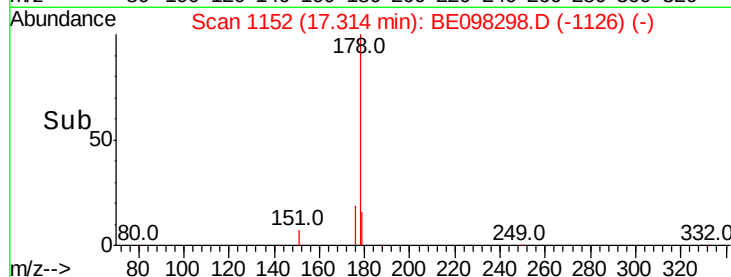
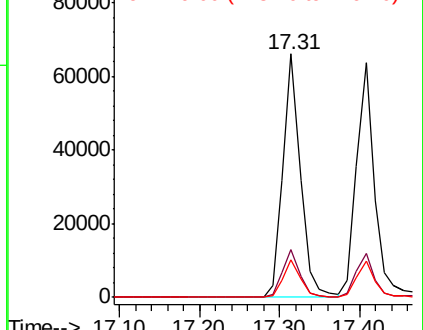
179 15.4 12.3 18.5



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: 3.291 ng

RT: 17.41 min Scan# 1160

Delta R.T. -0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

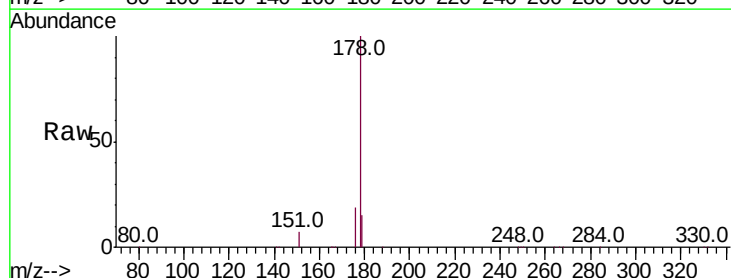
Tgt Ion:178 Resp: 96977

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.4

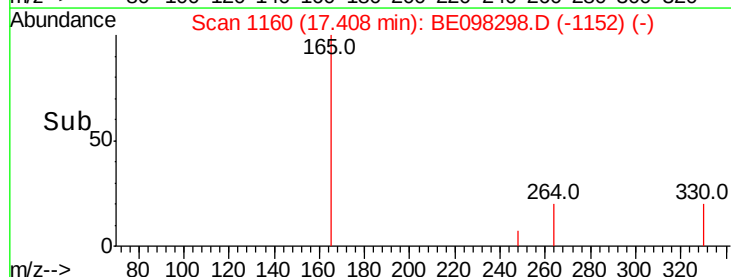
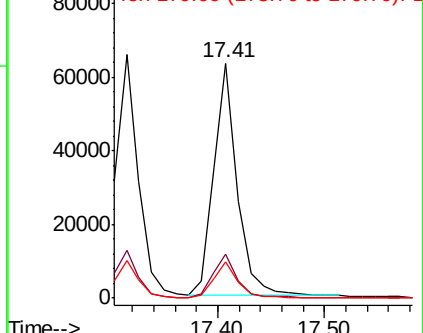
179 15.4 12.3 18.5

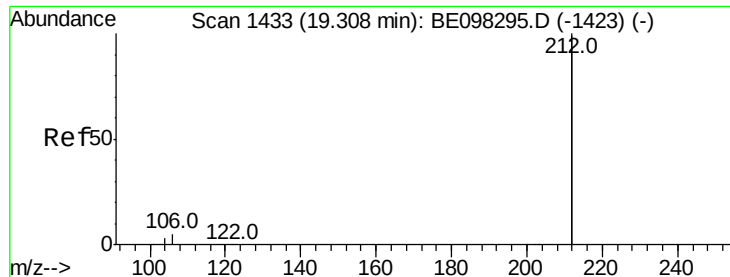


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 3.152 ng

RT: 19.31 min Scan# 1433

Delta R.T. 0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

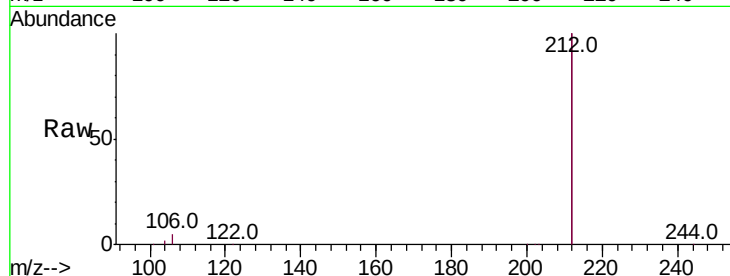
Tot Ion:212 Resp: 541775

Ion Ratio Lower Upper

212 100

106 2.7 2.2 3.2

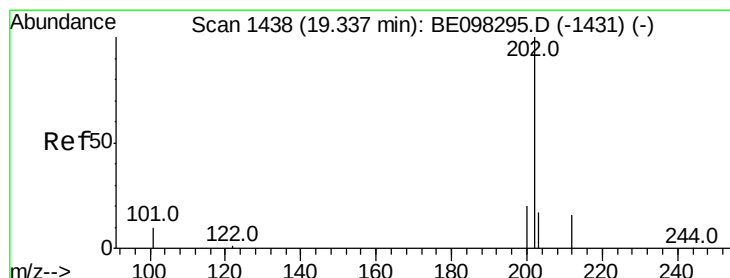
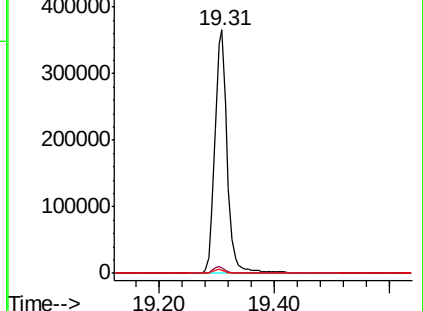
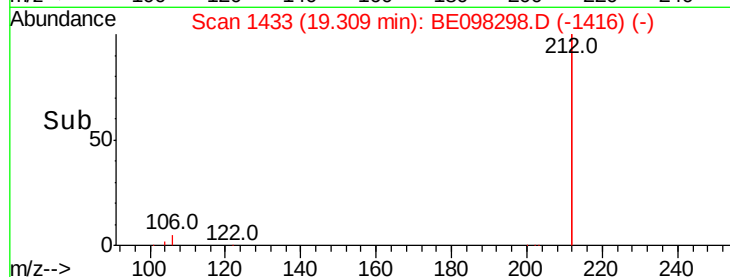
104 1.5 1.3 1.9



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: 3.153 ng

RT: 19.34 min Scan# 1438

Delta R.T. 0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

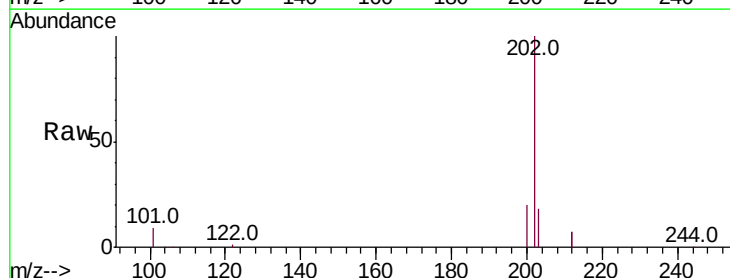
Tgt Ion:202 Resp: 136156

Ion Ratio Lower Upper

202 100

101 9.9 8.0 12.0

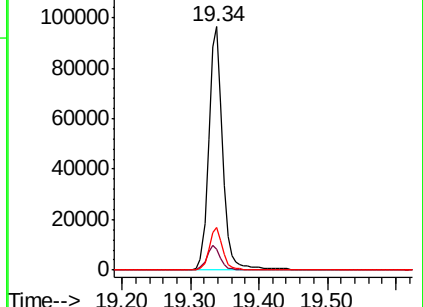
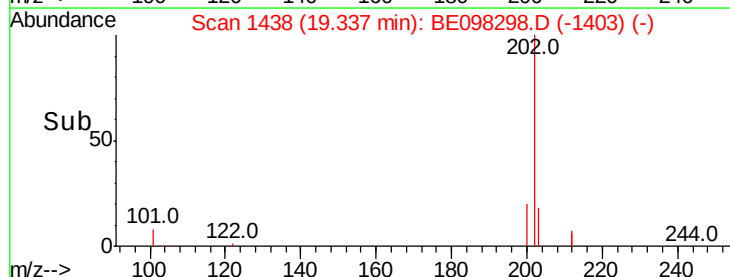
203 17.1 13.8 20.6

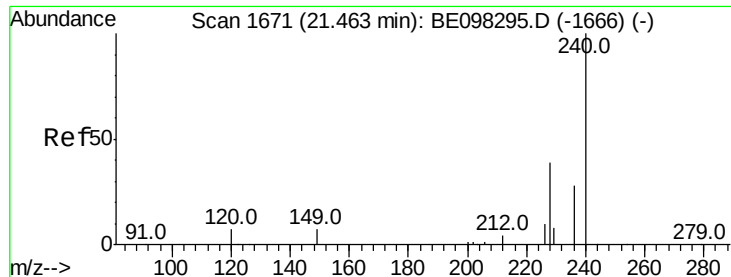


Abundance Ion 202.00 (201.70 to 202.70): E

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: 21.46 min Scan# 1671

Delta R.T. 0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

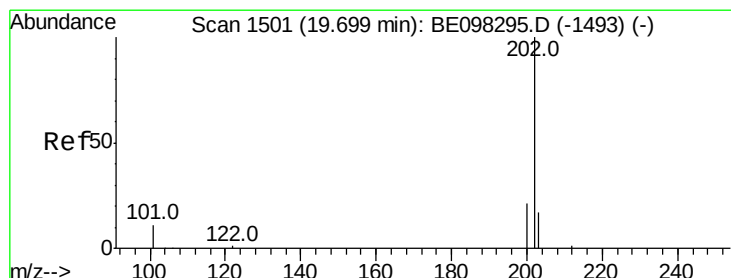
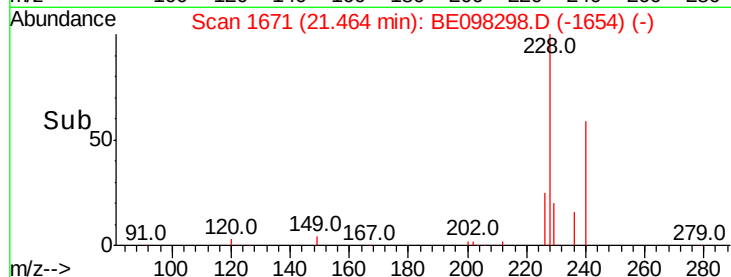
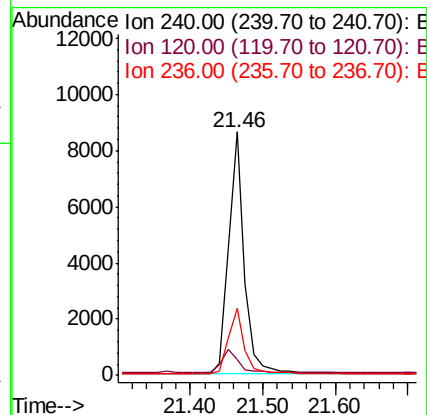
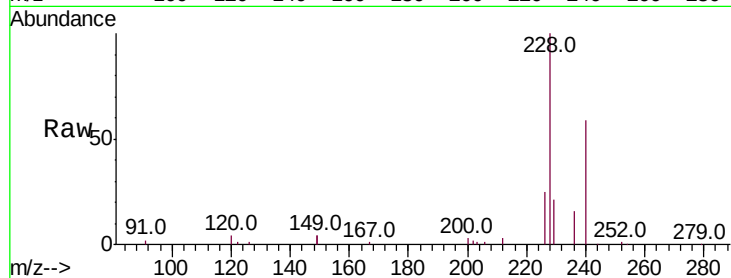
Tot Ion:240 Resp: 13270

Ion Ratio Lower Upper

240 100

120 6.6 9.5 14.3#

236 27.3 22.7 34.1



#28

Pyrene

Concen: 3.759 ng

RT: 19.70 min Scan# 1501

Delta R.T. 0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

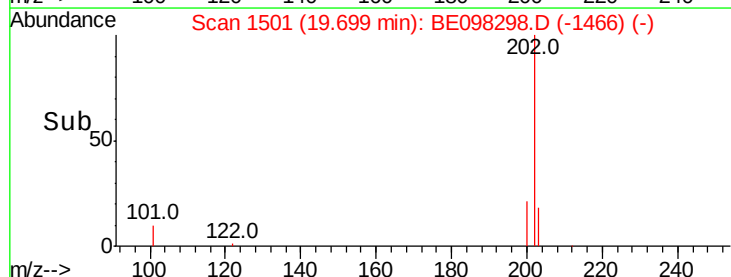
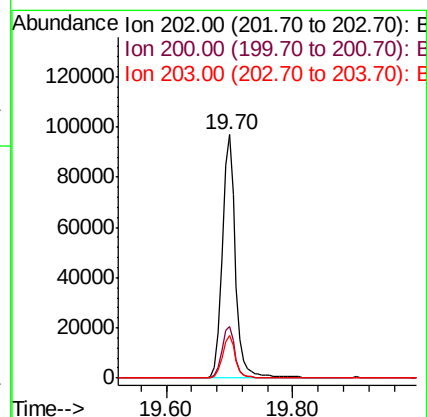
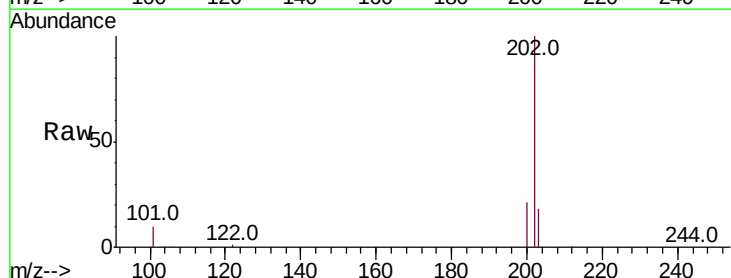
Tgt Ion:202 Resp: 138179

Ion Ratio Lower Upper

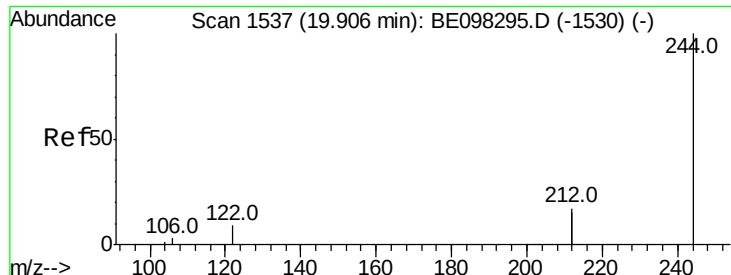
202 100

200 21.5 16.7 25.1

203 17.6 14.1 21.1







#29

Terphenyl-d14

Concen: 3.565 ng

RT: 19.90 min Scan# 1536

Delta R.T. -0.01 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

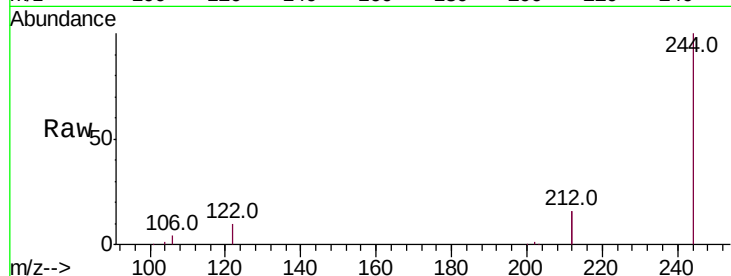
Tot Ion:244 Resp: 106373

Ion Ratio Lower Upper

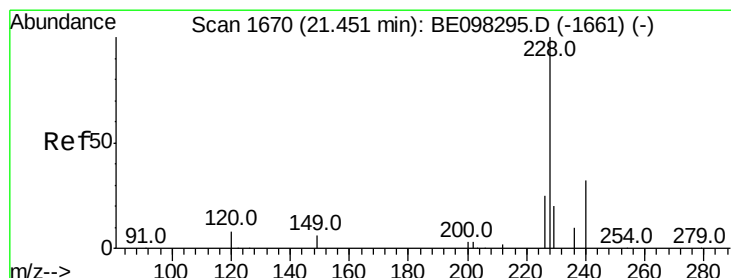
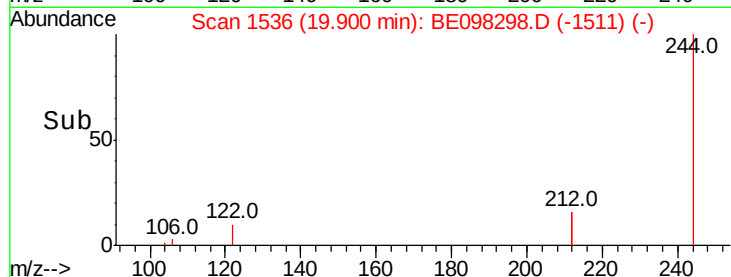
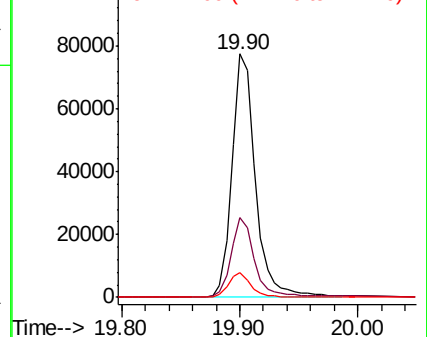
244 100

212 32.8 27.4 41.0

122 10.0 8.3 12.5



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: 3.183 ng

RT: 21.44 min Scan# 1669

Delta R.T. -0.01 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

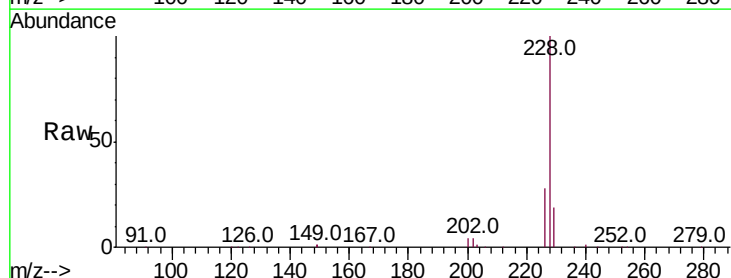
Tgt Ion:228 Resp: 124398

Ion Ratio Lower Upper

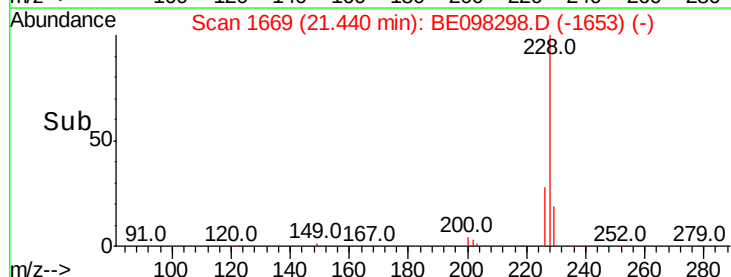
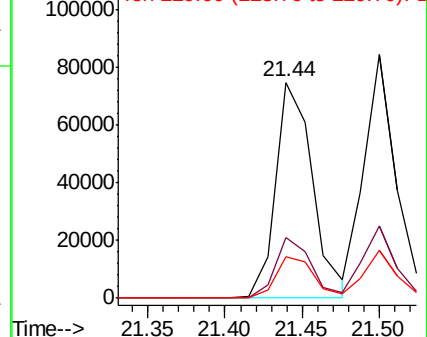
228 100

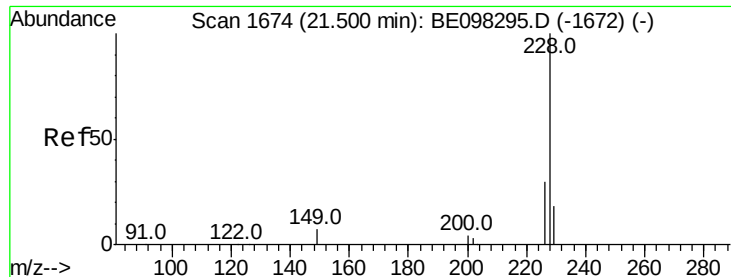
226 28.1 21.8 32.8

229 19.4 16.3 24.5



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: 3.123 ng

RT: 21.50 min Scan# 1674

Delta R.T. 0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

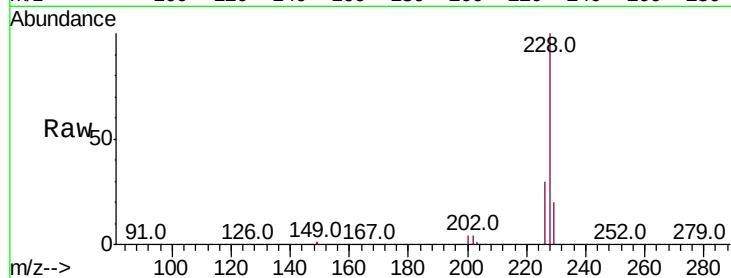
BNA\_E

ClientSampleId :

SSTDICC3.2

Tot Ion:228 Resp: 123960

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.7  | 23.4  | 35.0  |
| 229 | 19.8  | 16.2  | 24.4  |

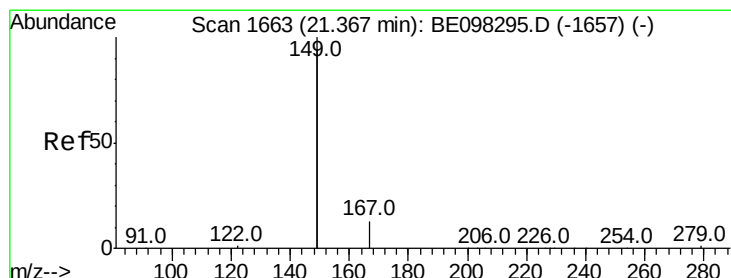
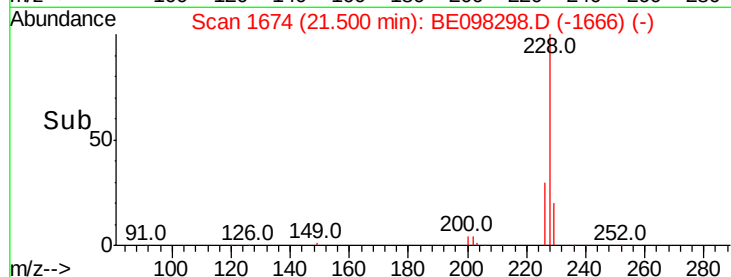
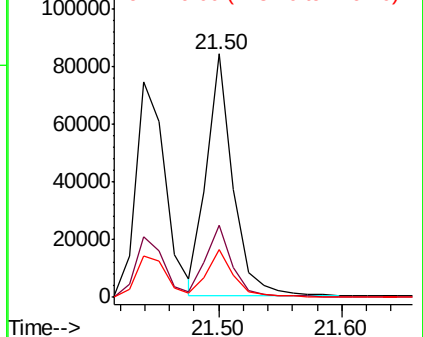


Abundance

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: 2.840 ng

RT: 21.37 min Scan# 1663

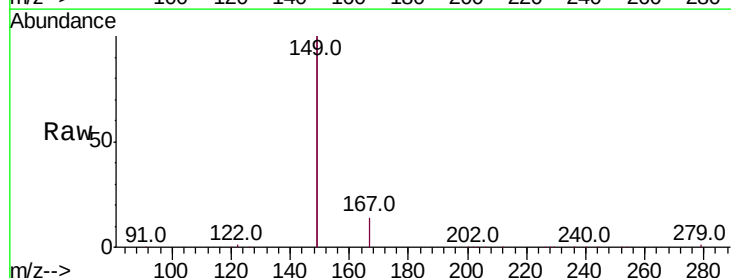
Delta R.T. 0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Tgt Ion:149 Resp: 265768

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 6.9   | 5.7   | 8.5   |
| 279 | 1.0   | 1.0   | 1.4   |

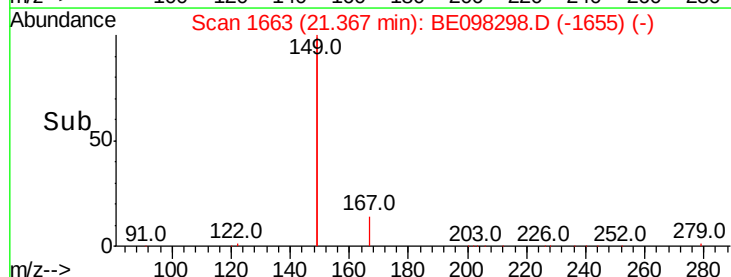
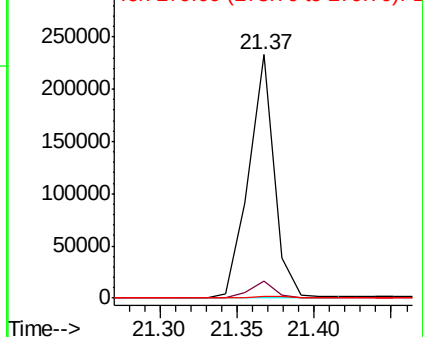


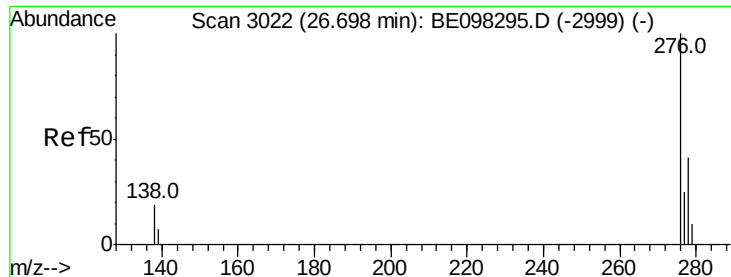
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

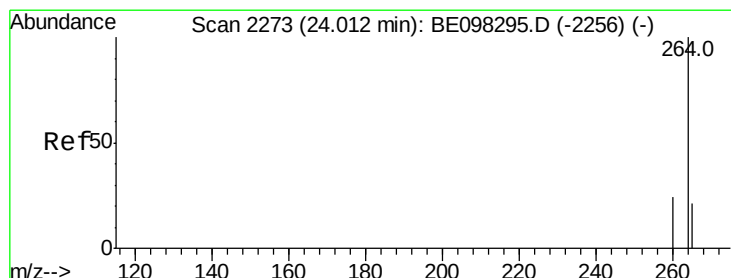
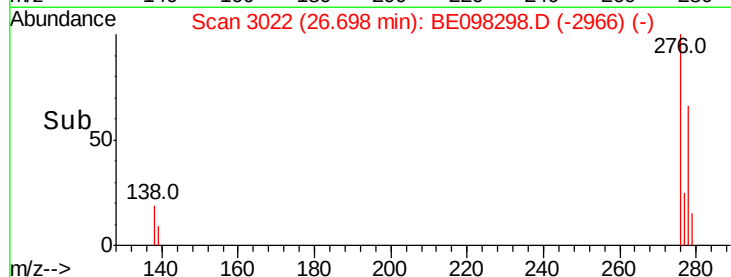
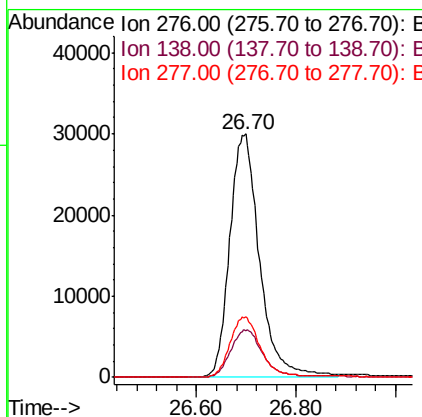
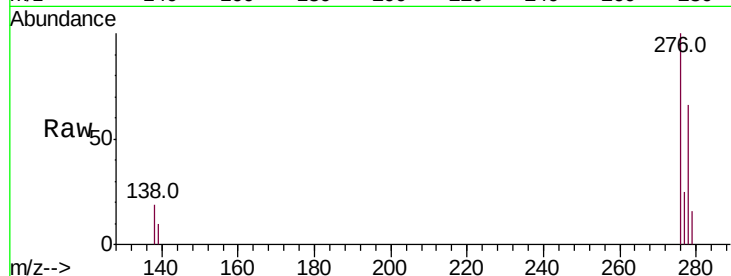




#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.093 ng  
 RT: 26.70 min Scan# 3022  
 Delta R.T. 0.00 min  
 Lab File: BE098298.D  
 Acq: 10 Dec 2018 14:17

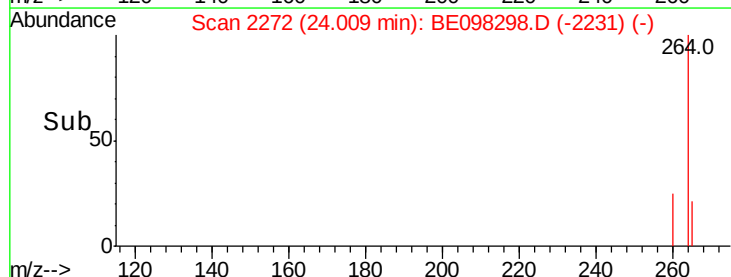
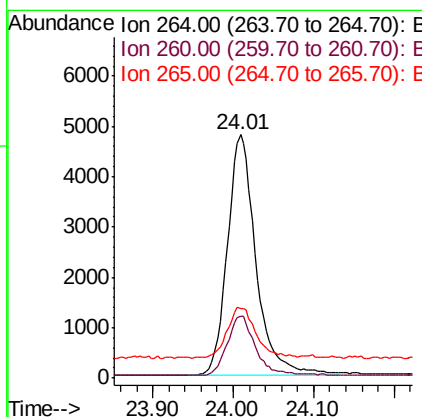
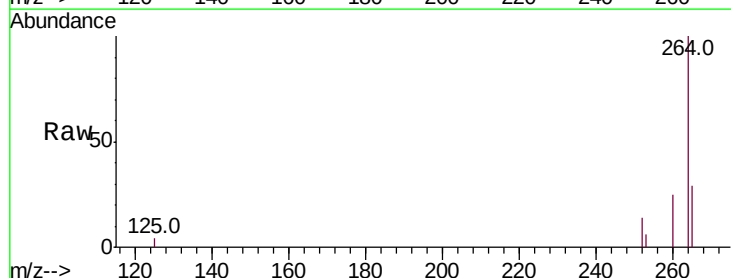
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDICC3.2

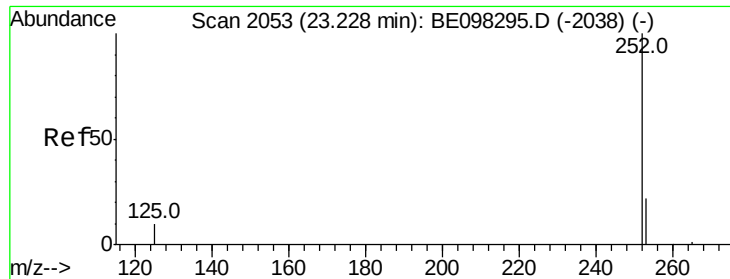
Tot Ion:276 Resp: 124120  
 Ion Ratio Lower Upper  
 276 100  
 138 20.5 16.3 24.5  
 277 25.0 20.2 30.4



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.01 min Scan# 2272  
 Delta R.T. -0.00 min  
 Lab File: BE098298.D  
 Acq: 10 Dec 2018 14:17

Tgt Ion:264 Resp: 11714  
 Ion Ratio Lower Upper  
 264 100  
 260 25.3 20.2 30.2  
 265 28.8 25.2 37.8





#35

Benzo(b)fluoranthene

Concen: 3.099 ng

RT: 23.22 min Scan# 2052

Delta R.T. -0.00 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

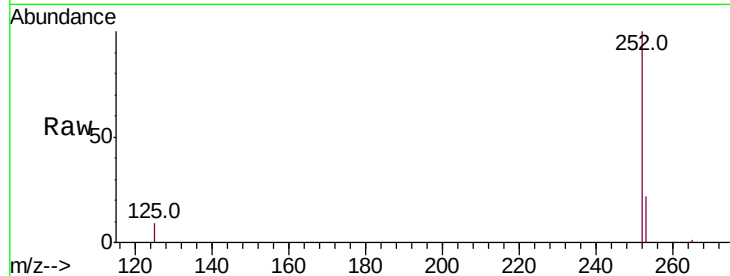
Tot Ion:252 Resp: 106429

Ion Ratio Lower Upper

252 100

253 21.9 20.0 30.0

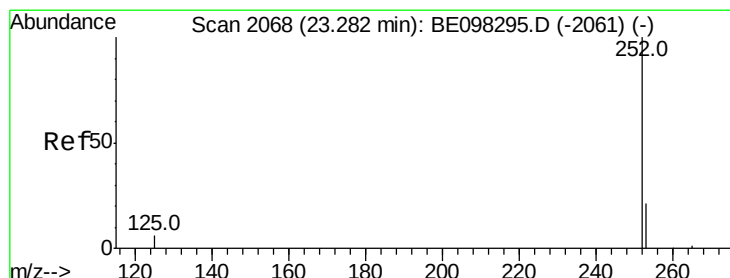
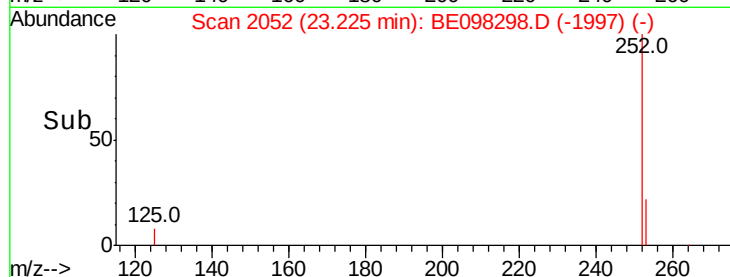
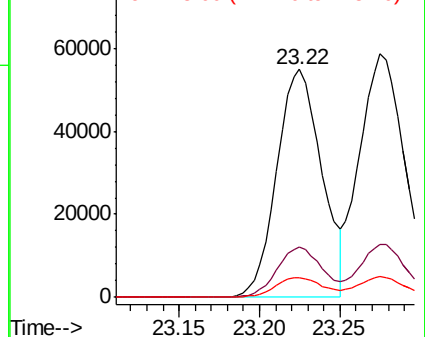
125 8.5 9.6 14.4#



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: 3.424 ng

RT: 23.27 min Scan# 2066

Delta R.T. -0.01 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

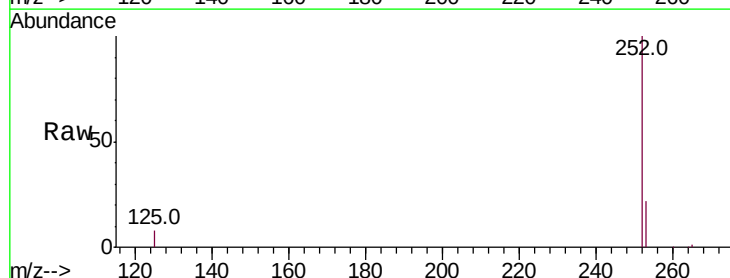
Tgt Ion:252 Resp: 123474

Ion Ratio Lower Upper

252 100

253 21.9 19.0 28.6

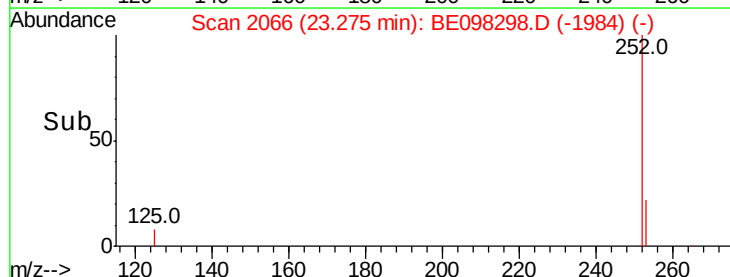
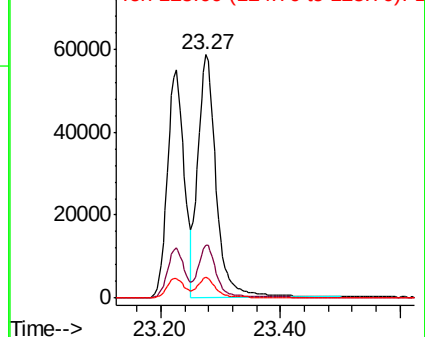
125 8.4 9.1 13.7#

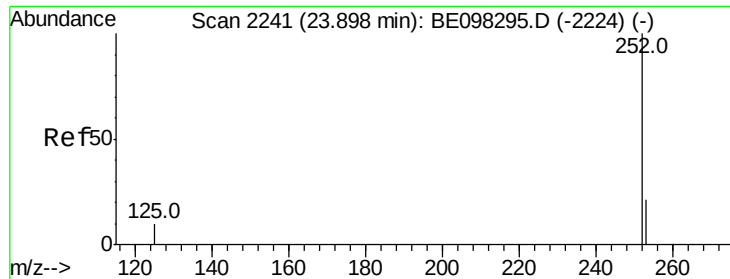


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 3.258 ng

RT: 23.89 min Scan# 2239

Delta R.T. -0.01 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

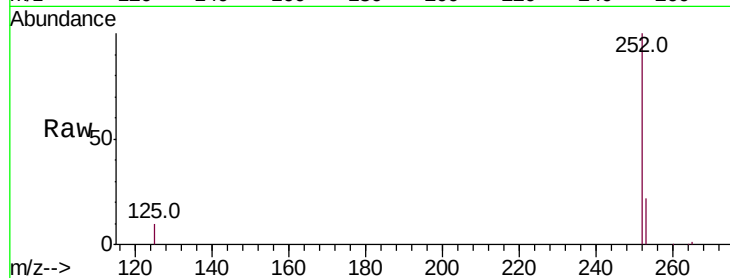
Tot Ion:252 Resp: 107773

Ion Ratio Lower Upper

252 100

253 22.0 20.6 30.8

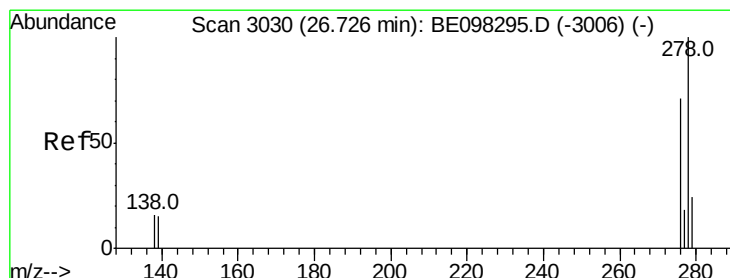
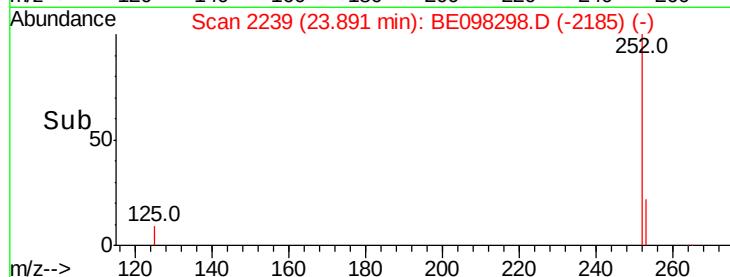
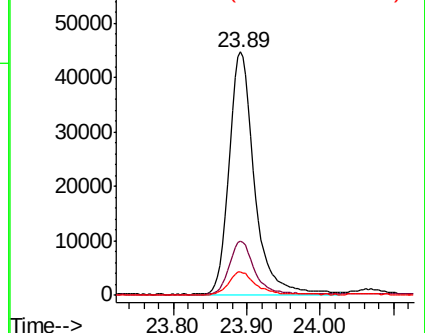
125 9.5 10.5 15.7#



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: 3.313 ng

RT: 26.72 min Scan# 3027

Delta R.T. -0.01 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

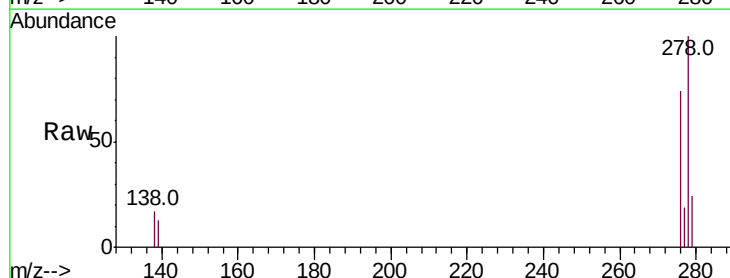
Tgt Ion:278 Resp: 103923

Ion Ratio Lower Upper

278 100

139 13.3 14.5 21.7#

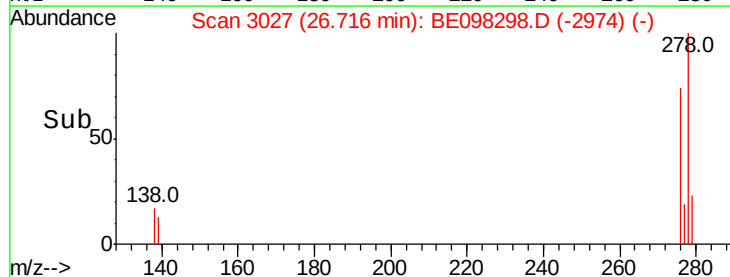
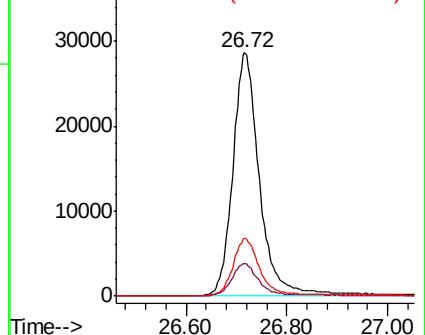
279 23.7 21.8 32.8

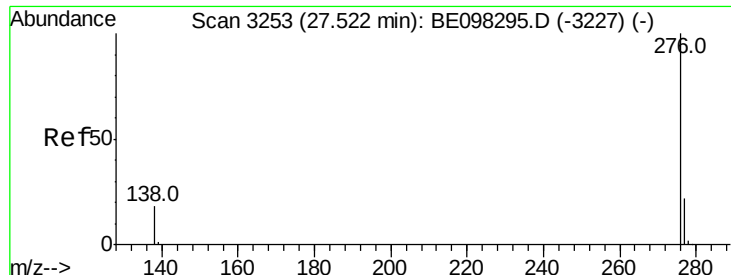


Abundance Ion 278.00 (277.70 to 278.70): E

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: 3.286 ng

RT: 27.52 min Scan# 3251

Delta R.T. -0.01 min

Lab File: BE098298.D

Acq: 10 Dec 2018 14:17

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

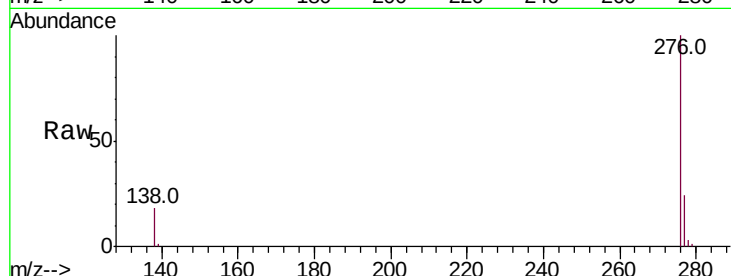
Tot Ion:276 Resp: 103283

Ion Ratio Lower Upper

276 100

277 24.0 20.8 31.2

138 17.9 15.8 23.6



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

