

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE060419\  
 Data File : BE099794.D  
 Acq On : 4 Jun 2019 10:29  
 Operator : JU/SJ  
 Sample : PB120277BSD  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jun 04 11:50:54 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE052019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 20 19:29:40 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 1517     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.62 | 136  | 5034     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.49 | 164  | 3192     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.23 | 188  | 9508     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.41 | 240  | 19891    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.95 | 264  | 23707    | 0.40 | ng    | -0.01    |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.39  | 112 | 1268  | 0.33 | ng | 0.01 |
| 5) Phenol-d6                | 6.99  | 99  | 1545  | 0.30 | ng | 0.01 |
| 8) Nitrobenzene-d5          | 8.98  | 82  | 1326  | 0.30 | ng | 0.00 |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152 | 3766  | 0.43 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.98 | 330 | 468   | 0.33 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.12 | 172 | 4119  | 0.34 | ng | 0.01 |
| 25) Fluoranthene-d10        | 19.26 | 212 | 50604 | 0.39 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.86 | 244 | 11317 | 0.32 | ng | 0.00 |

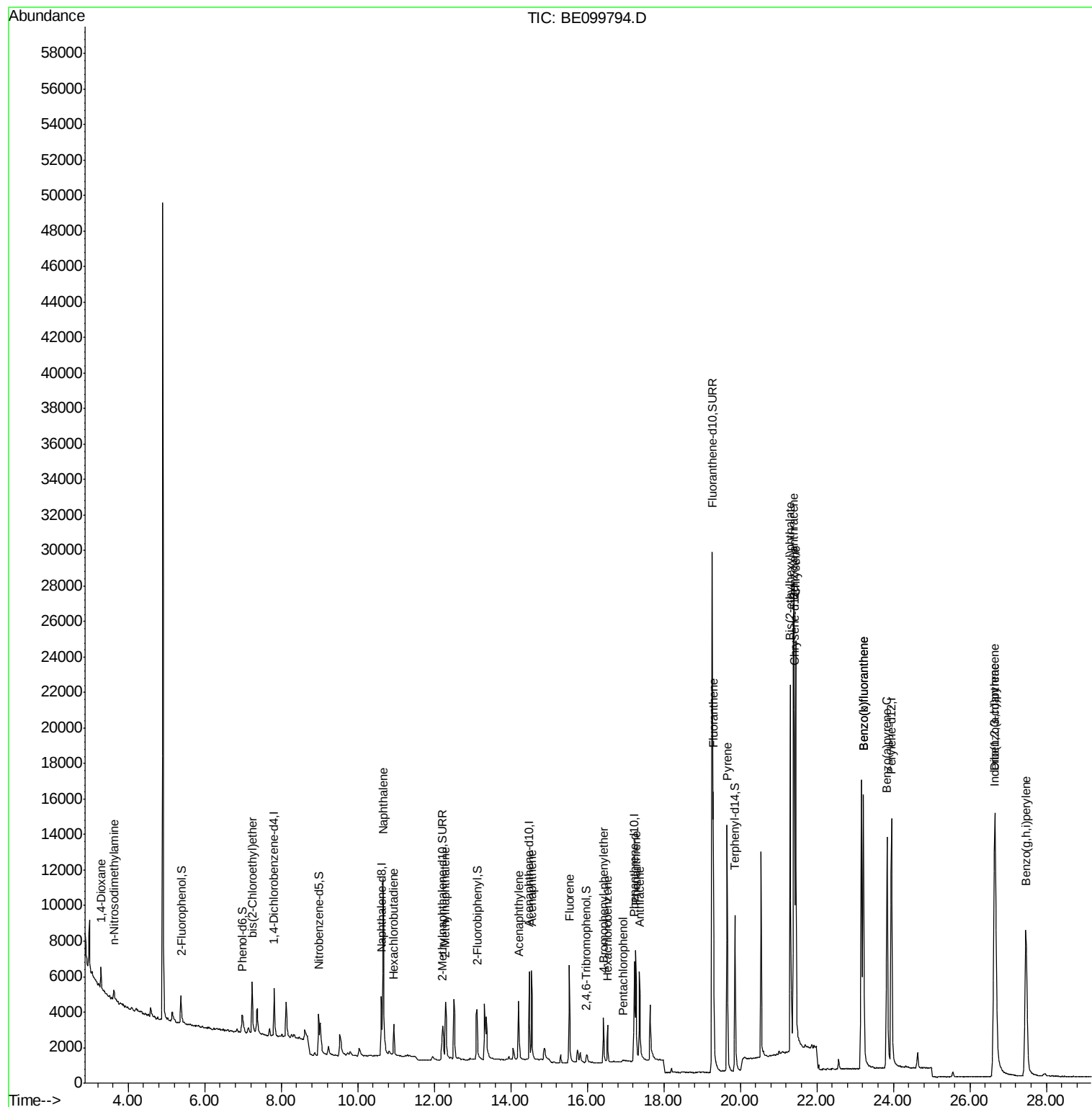
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.29  | 88  | 857   | 0.382  | ng | # 65 |
| 3) n-Nitrosodimethylamine      | 3.62  | 42  | 408   | 0.329  | ng | # 64 |
| 6) bis(2-Chloroethyl)ether     | 7.24  | 93  | 1499  | 0.332  | ng | 97   |
| 9) Naphthalene                 | 10.67 | 128 | 19130 | 0.355  | ng | 100  |
| 10) Hexachlorobutadiene        | 10.94 | 225 | 1429  | 0.360  | ng | 97   |
| 12) 2-Methylnaphthalene        | 12.30 | 142 | 2826  | 0.322  | ng | 96   |
| 16) Acenaphthylene             | 14.21 | 152 | 5099  | 0.343  | ng | 100  |
| 17) Acenaphthene               | 14.54 | 154 | 2887  | 0.346  | ng | 99   |
| 18) Fluorene                   | 15.53 | 166 | 3998  | 0.325  | ng | 99   |
| 20) 4-Bromophenyl-phenylether  | 16.42 | 248 | 1729  | 0.315  | ng | 99   |
| 21) Hexachlorobenzene          | 16.53 | 284 | 1983  | 0.353  | ng | 99   |
| 22) Pentachlorophenol          | 16.93 | 266 | 163   | 0.277  | ng | 83   |
| 23) Phenanthrene               | 17.27 | 178 | 7859  | 0.338  | ng | 99   |
| 24) Anthracene                 | 17.36 | 178 | 6785  | 0.322  | ng | 100  |
| 26) Fluoranthene               | 19.29 | 202 | 14822 | 0.404  | ng | 100  |
| 28) Pyrene                     | 19.66 | 202 | 15932 | 0.319  | ng | 99   |
| 30) Benzo(a)anthracene         | 21.39 | 228 | 22454 | 0.397  | ng | 99   |
| 31) Chrysene                   | 21.45 | 228 | 22595 | 0.374  | ng | 98   |
| 32) Bis(2-ethylhexyl)phthalate | 21.31 | 149 | 22546 | 0.346  | ng | 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.64 | 276 | 29520 | 0.405  | ng | 99   |
| 35) Benzo(b)fluoranthene       | 23.21 | 252 | 26346 | 0.406  | ng | 99   |
| 36) Benzo(k)fluoranthene       | 23.21 | 252 | 26346 | 0.389  | ng | 100  |
| 37) Benzo(a)pyrene             | 23.84 | 252 | 24553 | 0.393  | ng | # 94 |
| 38) Dibenzo(a,h)anthracene     | 26.66 | 278 | 23661 | 0.360  | ng | # 97 |
| 39) Benzo(g,h,i)perylene       | 27.47 | 276 | 24924 | 0.376  | ng | 99   |

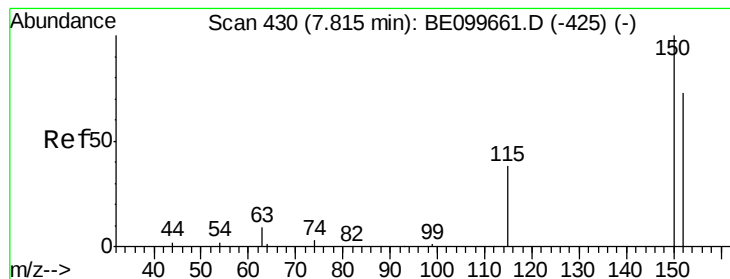
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE060419\  
Data File : BE099794.D  
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Sample : PB120277BSD  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :

Quant Time: Jun 04 11:50:54 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE052019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 20 19:29:40 2019  
Response via : Initial Calibration



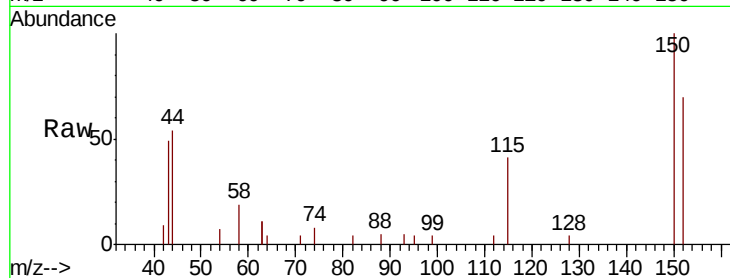


#1

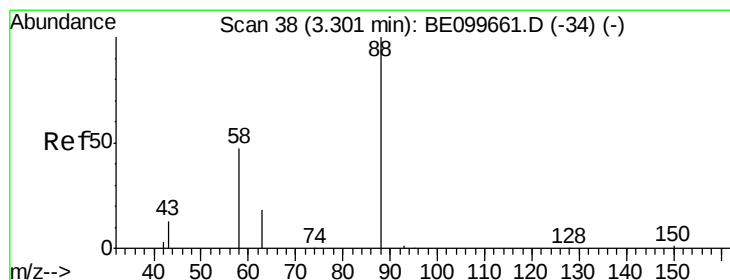
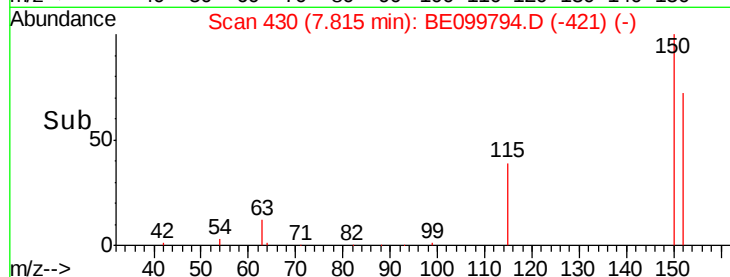
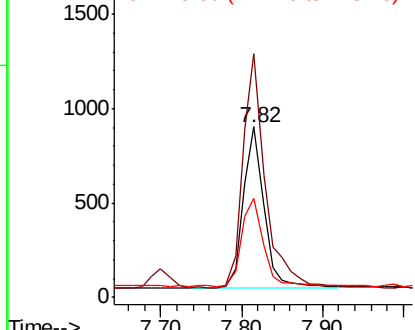
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.82 min Scan# 430  
Delta R.T. 0.00 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 1517  
Ion Ratio Lower Upper  
152 100  
150 142.7 109.2 163.8  
115 57.9 43.7 65.5



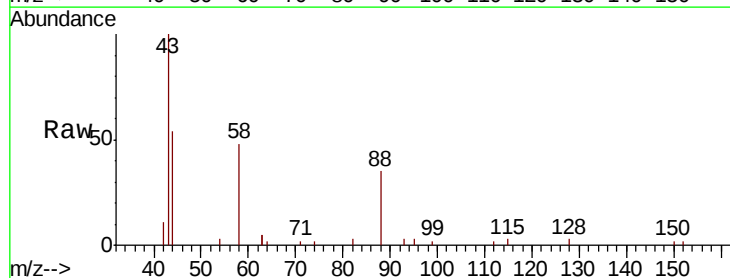
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



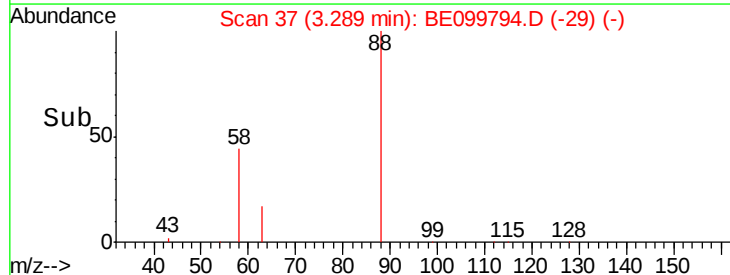
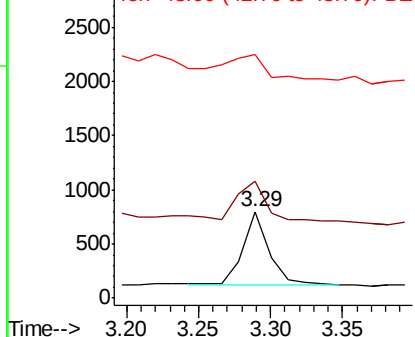
#2

1,4-Dioxane  
Concen: 0.382 ng  
RT: 3.29 min Scan# 37  
Delta R.T. -0.01 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

Tgt Ion: 88 Resp: 857  
Ion Ratio Lower Upper  
88 100  
58 65.1 41.8 62.8#  
43 55.8 15.0 22.4#



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



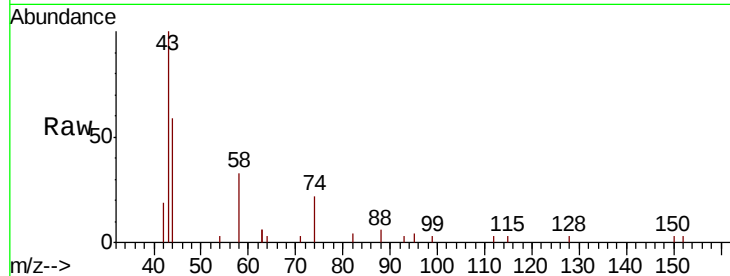


#3

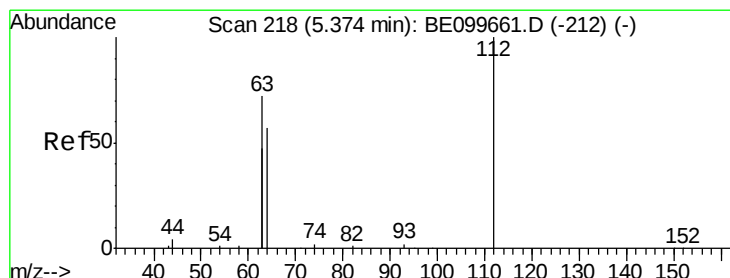
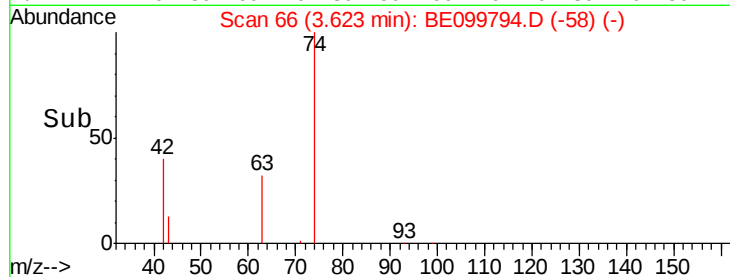
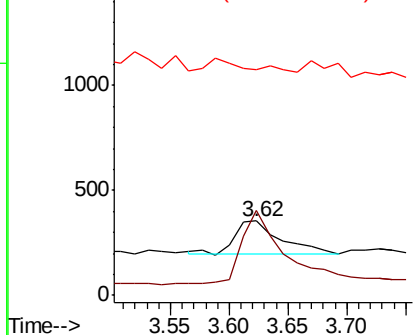
n-Nitrosodimethylamine  
 Concen: 0.329 ng  
 RT: 3.62 min Scan# 66  
 Delta R.T. -0.01 min  
 Lab File: BE099794.D  
 Acq: 4 Jun 2019 10:29

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion: 42 Resp: 408  
 Ion Ratio Lower Upper  
 42 100  
 74 209.8 129.2 193.8#  
 44 0.0 0.0 0.0



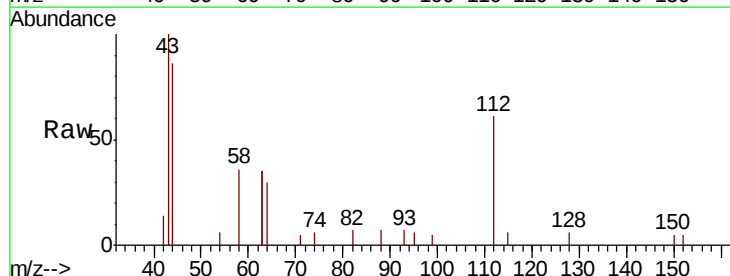
Abundance Ion 42.00 (41.70 to 42.70): BE0  
 Ion 74.00 (73.70 to 74.70): BE0  
 Ion 44.00 (43.70 to 44.70): BE0



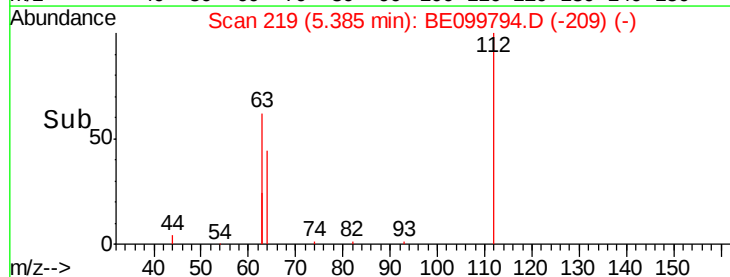
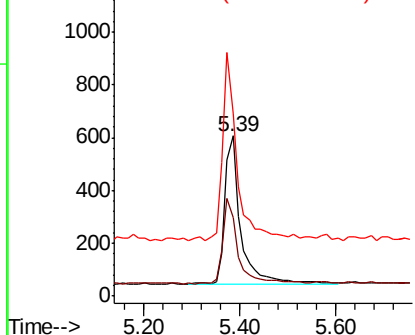
#4

2-Fluorophenol  
 Concen: 0.331 ng  
 RT: 5.39 min Scan# 219  
 Delta R.T. 0.01 min  
 Lab File: BE099794.D  
 Acq: 4 Jun 2019 10:29

Tgt Ion: 112 Resp: 1268  
 Ion Ratio Lower Upper  
 112 100  
 64 56.2 43.4 65.2  
 63 112.7 96.9 145.3



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: 0.304 ng

RT: 6.99 min Scan# 358

Delta R.T. 0.01 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

Instrument :

BNA\_E

ClientSampleId :

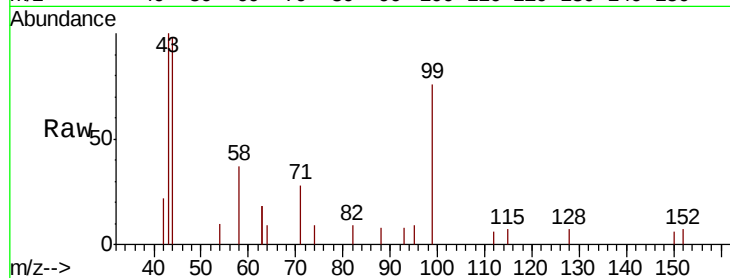
Tot Ion: 99 Resp: 1545

Ion Ratio Lower Upper

99 100

42 15.5 12.2 18.2

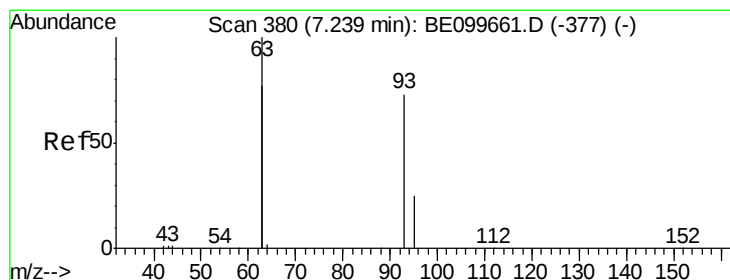
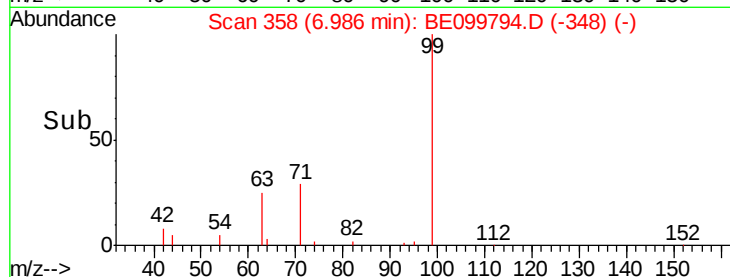
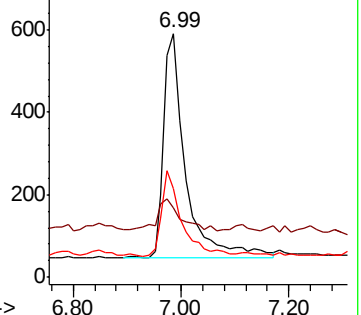
71 36.2 28.9 43.3



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: 0.332 ng

RT: 7.24 min Scan# 380

Delta R.T. 0.00 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

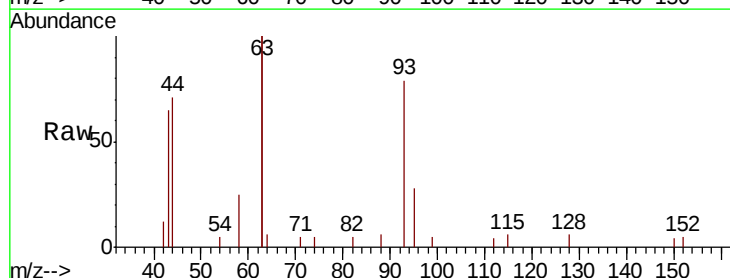
Tgt Ion: 93 Resp: 1499

Ion Ratio Lower Upper

93 100

63 264.4 207.8 311.6

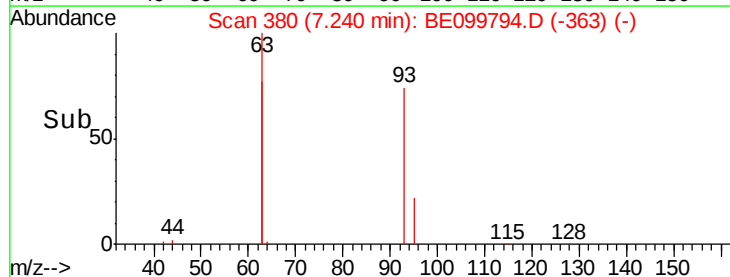
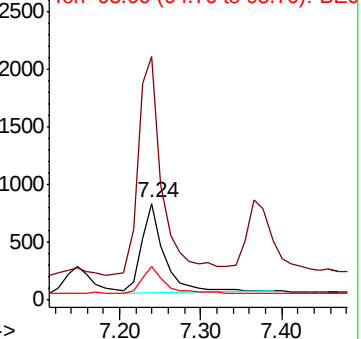
95 31.6 25.9 38.9

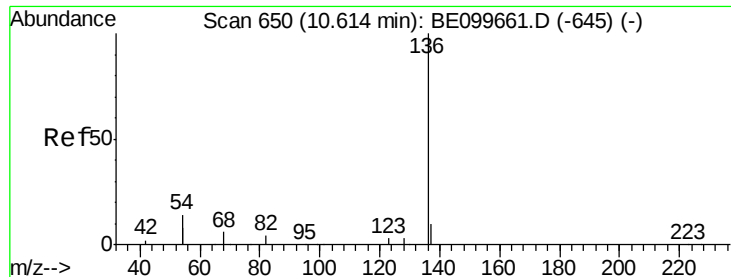


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 10.62 min Scan# 650

Delta R.T. 0.00 min

Lab File: BE099794.D

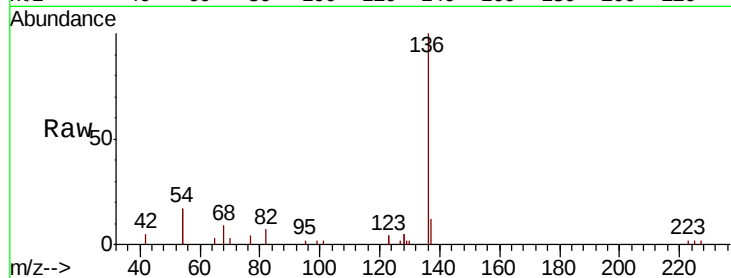
Acq: 4 Jun 2019 10:29

Instrument :

BNA\_E

ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 5034        |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 12.1  | 9.0 13.6    |
| 54          | 33.3  | 22.3 33.5   |
| 68          | 9.0   | 6.0 9.0#    |

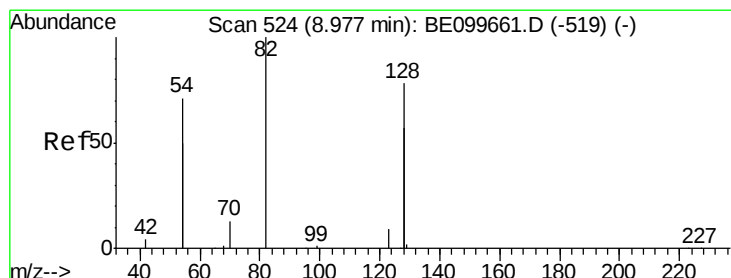
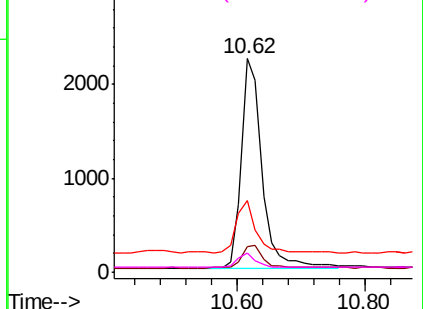
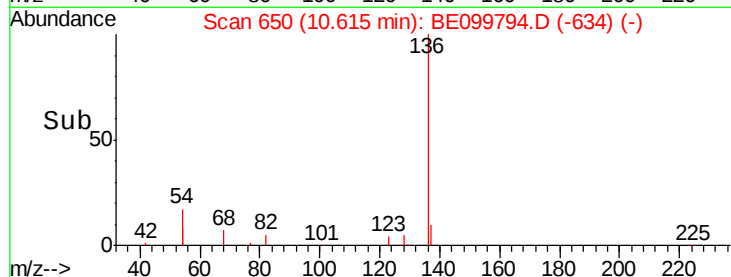


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.304 ng

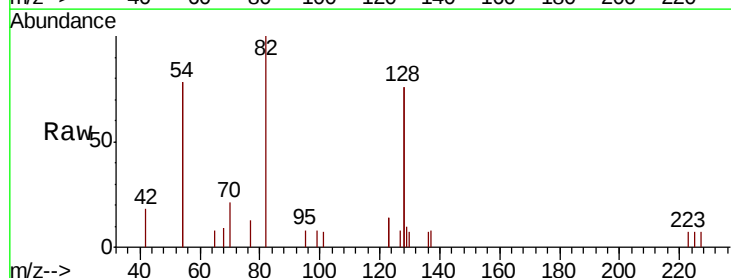
RT: 8.98 min Scan# 524

Delta R.T. 0.00 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

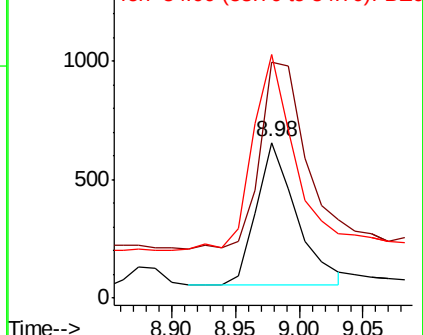
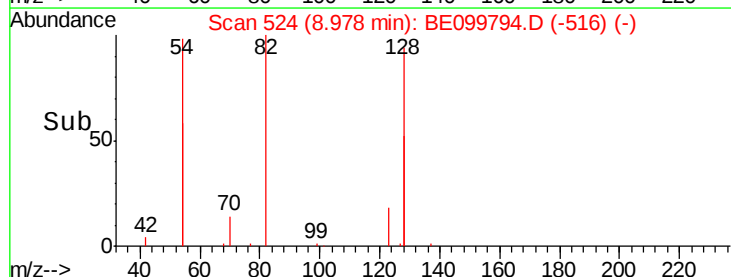
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 1326        |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 151.1 | 117.7 176.5 |
| 54          | 156.2 | 106.6 160.0 |

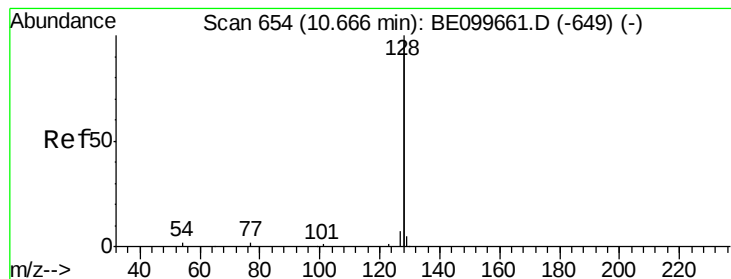


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.355 ng

RT: 10.67 min Scan# 654

Delta R.T. 0.00 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

Instrument :

BNA\_E

ClientSampleId :

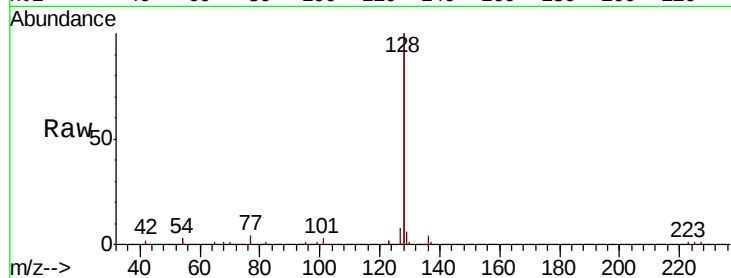
Tot Ion:128 Resp: 19130

Ion Ratio Lower Upper

128 100

129 3.0 2.4 3.6

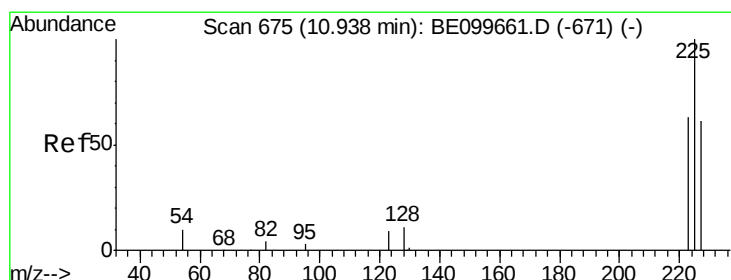
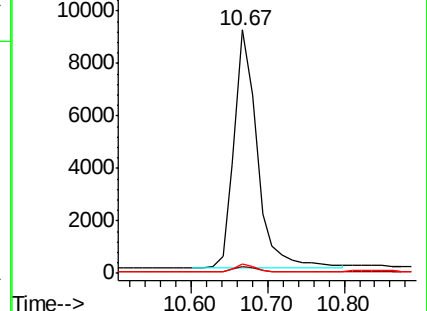
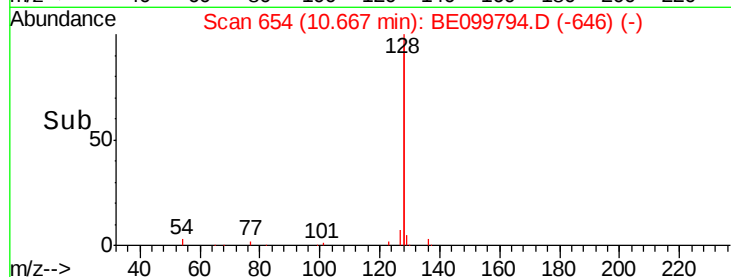
127 3.8 2.9 4.3



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: 0.360 ng

RT: 10.94 min Scan# 675

Delta R.T. 0.00 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

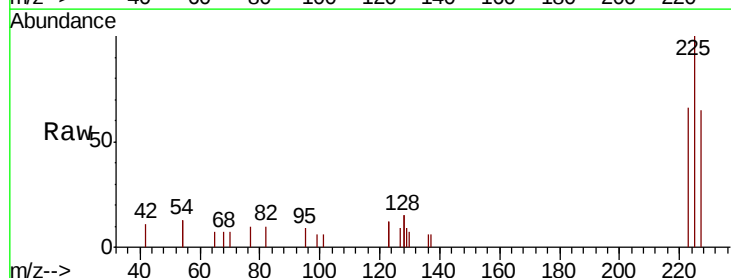
Tgt Ion:225 Resp: 1429

Ion Ratio Lower Upper

225 100

223 61.7 51.8 77.6

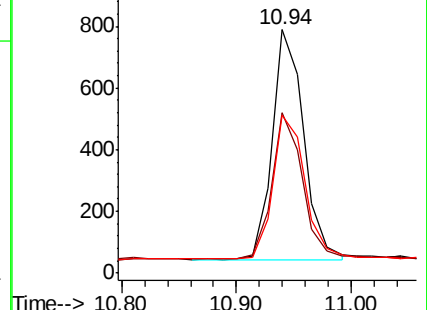
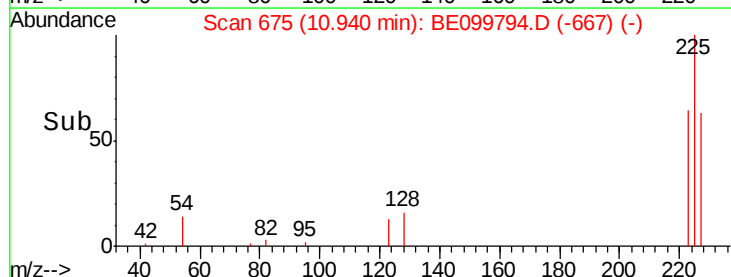
227 63.5 52.6 79.0

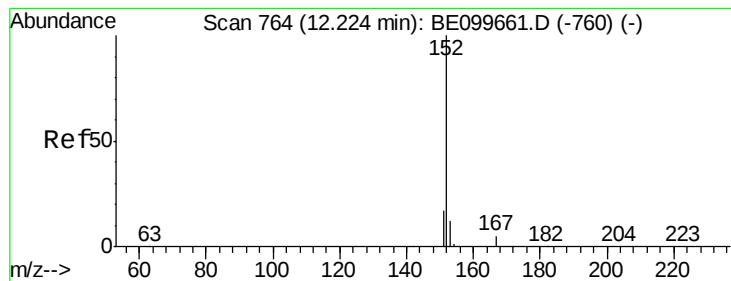


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

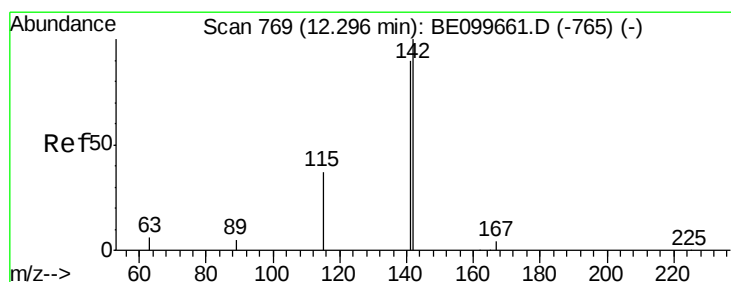
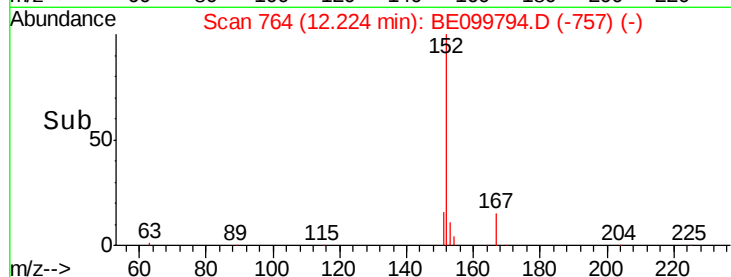
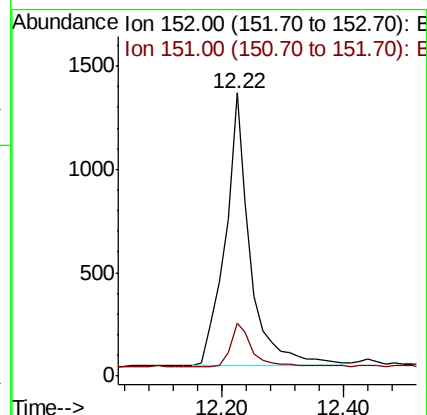
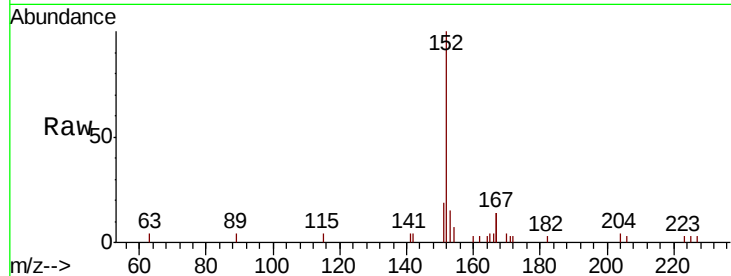




#11  
2-Methylnaphthalene-d10  
Concen: 0.434 ng  
RT: 12.22 min Scan# 764  
Delta R.T. -0.00 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

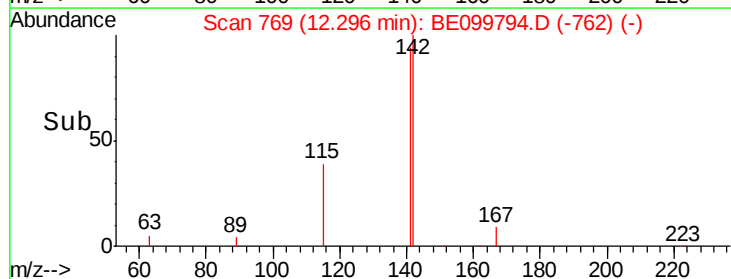
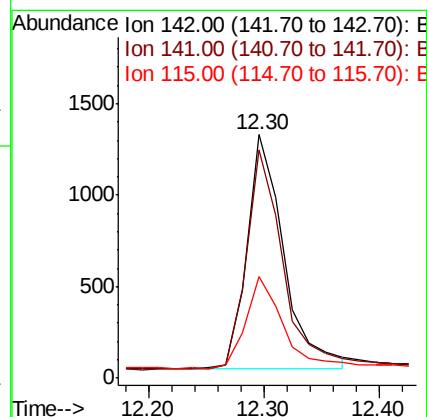
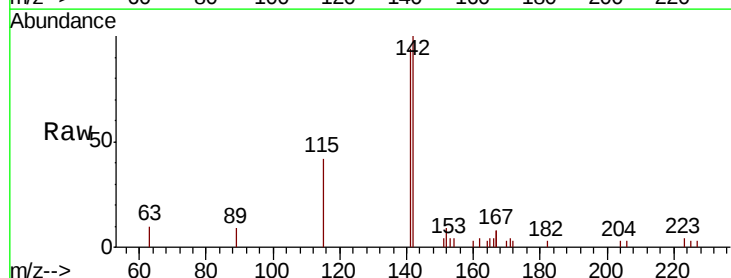
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:152 Resp: 3766  
Ion Ratio Lower Upper  
152 100  
151 14.5 15.0 22.4#



#12  
2-Methylnaphthalene  
Concen: 0.322 ng  
RT: 12.30 min Scan# 769  
Delta R.T. -0.00 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

Tgt Ion:142 Resp: 2826  
Ion Ratio Lower Upper  
142 100  
141 93.8 72.0 108.0  
115 41.9 31.0 46.4

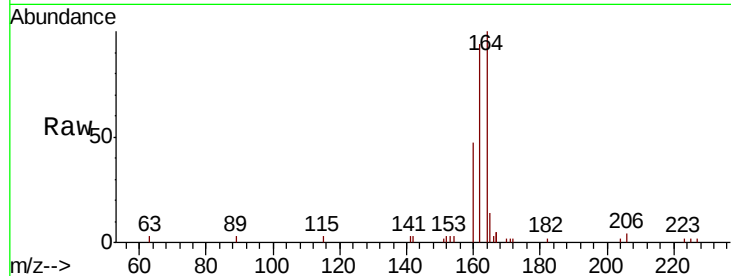




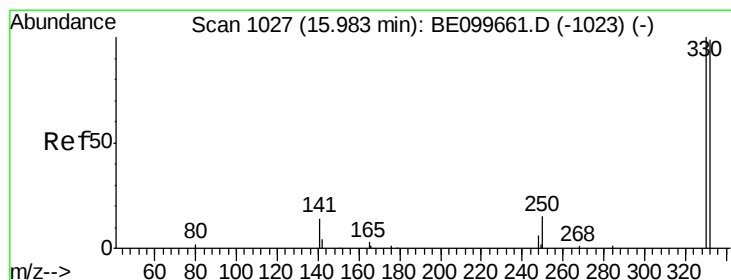
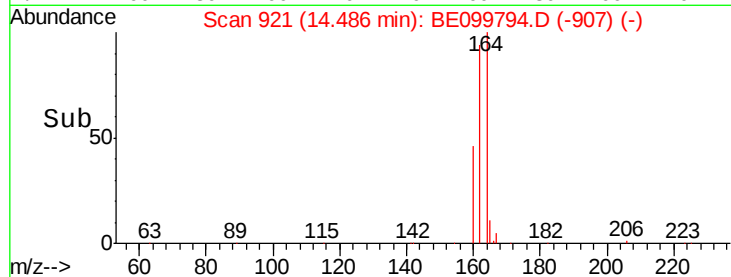
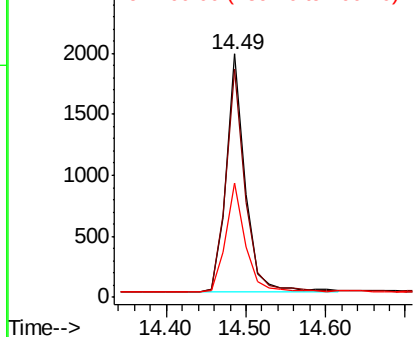
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.49 min Scan# 921  
Delta R.T. -0.00 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:164 Resp: 3192  
Ion Ratio Lower Upper  
164 100  
162 93.7 76.5 114.7  
160 47.0 37.4 56.2

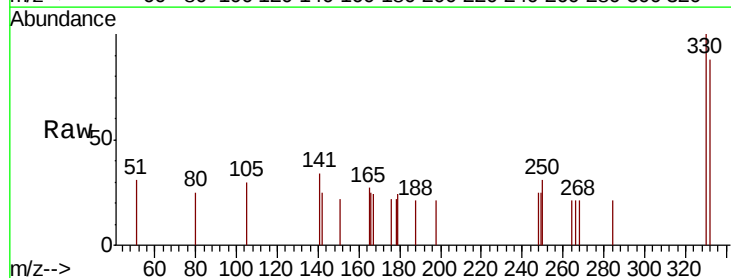


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

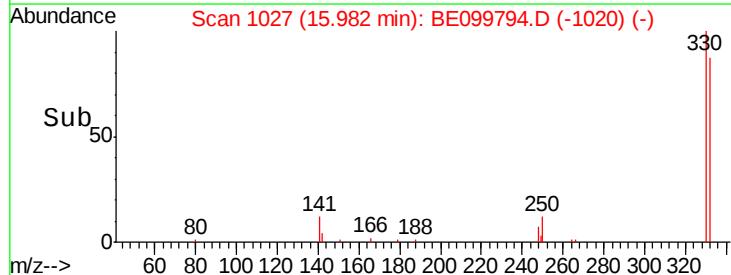
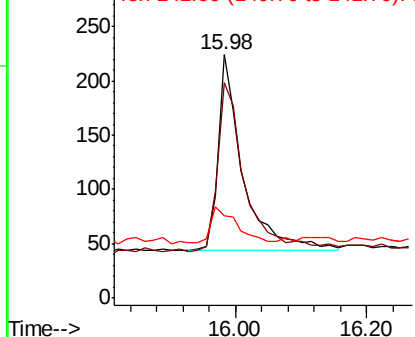


#14  
2,4,6-Tribromophenol  
Concen: 0.327 ng  
RT: 15.98 min Scan# 1027  
Delta R.T. 0.00 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

Tgt Ion:330 Resp: 468  
Ion Ratio Lower Upper  
330 100  
332 96.6 77.3 115.9  
141 18.6 18.9 28.3#



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

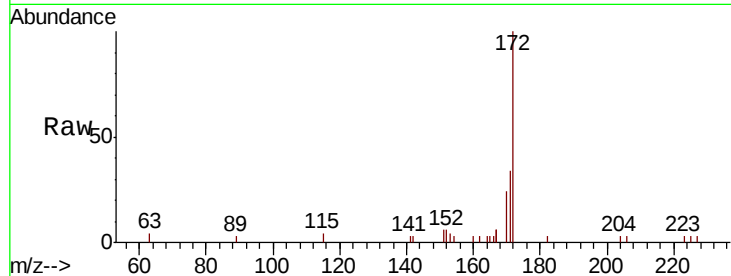




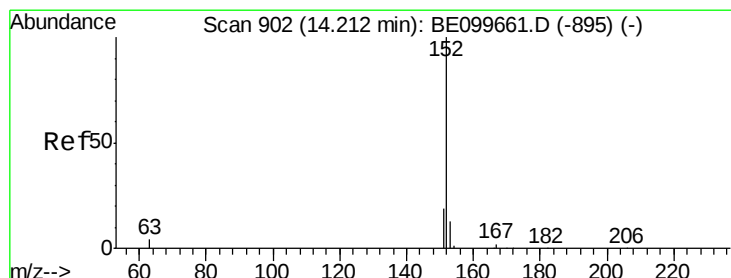
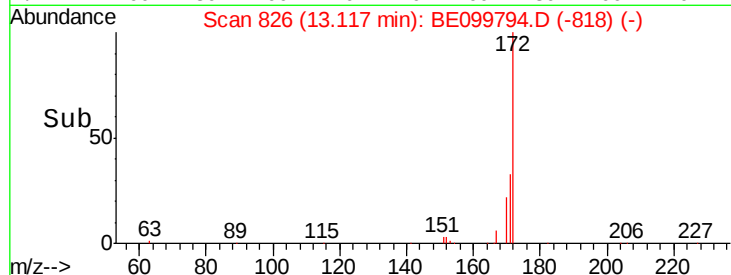
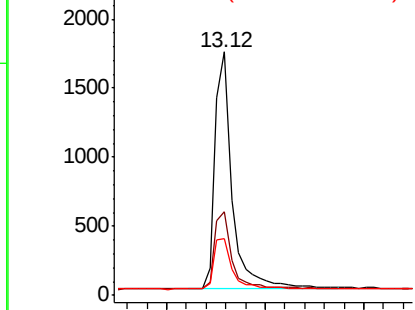
#15  
2-Fluorobiphenyl  
Concen: 0.340 ng  
RT: 13.12 min Scan# 826  
Delta R.T. 0.01 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:172 Resp: 4119  
Ion Ratio Lower Upper  
172 100  
171 34.5 28.7 43.1  
170 23.5 20.9 31.3

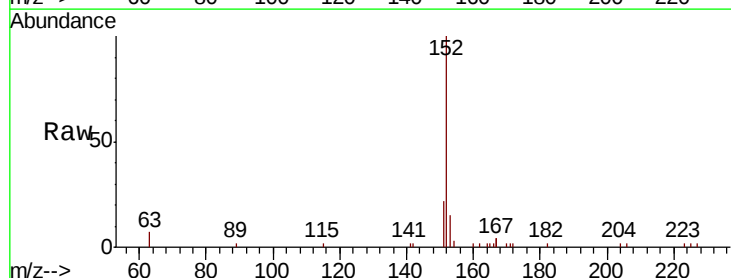


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

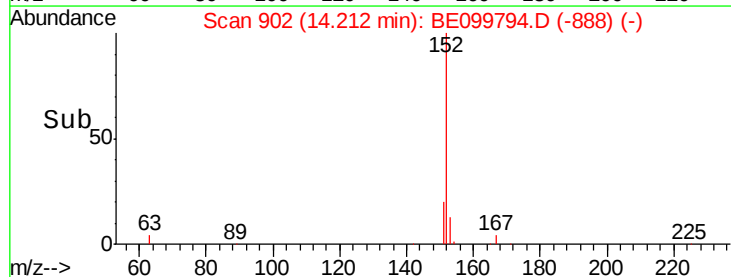
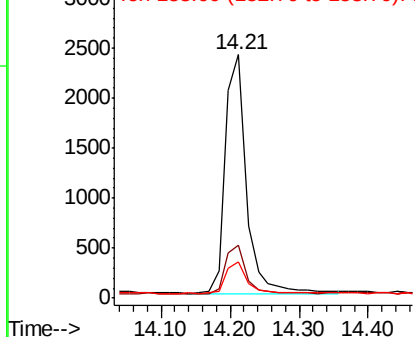


#16  
Acenaphthylene  
Concen: 0.343 ng  
RT: 14.21 min Scan# 902  
Delta R.T. -0.00 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

Tgt Ion:152 Resp: 5099  
Ion Ratio Lower Upper  
152 100  
151 19.9 15.9 23.9  
153 13.4 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

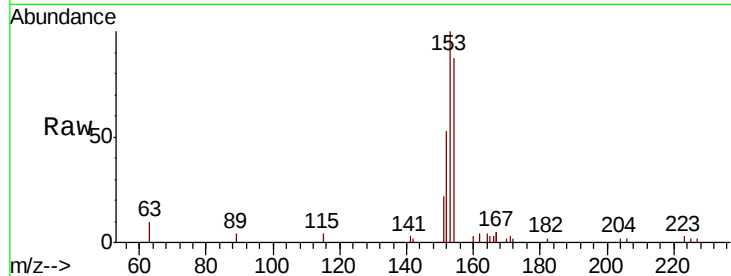




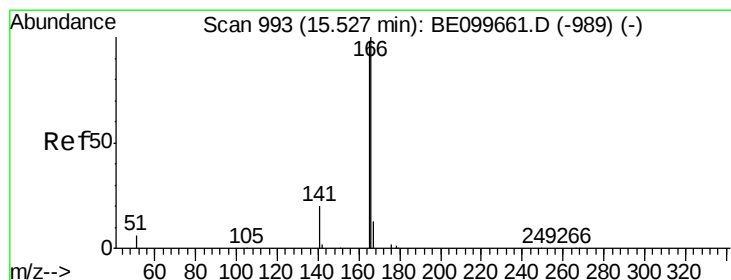
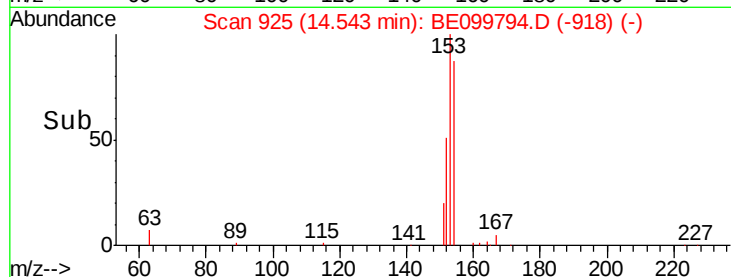
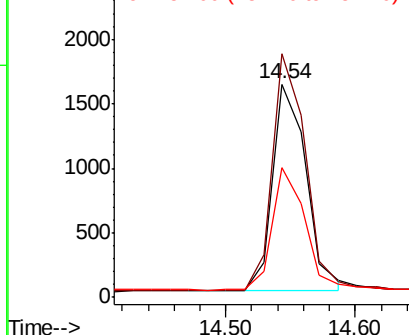
#17  
Acenaphthene  
Concen: 0.346 ng  
RT: 14.54 min Scan# 925  
Delta R.T. -0.00 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:154 Resp: 2887  
Ion Ratio Lower Upper  
154 100  
153 113.6 91.8 137.6  
152 57.4 46.0 69.0

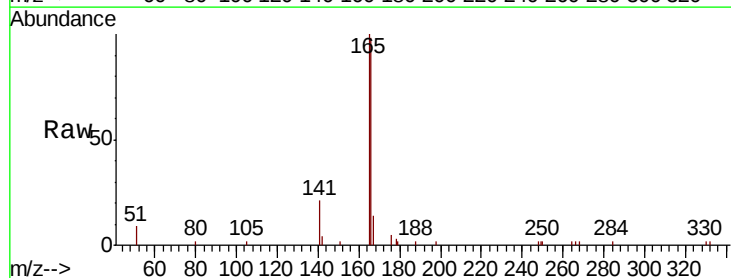


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

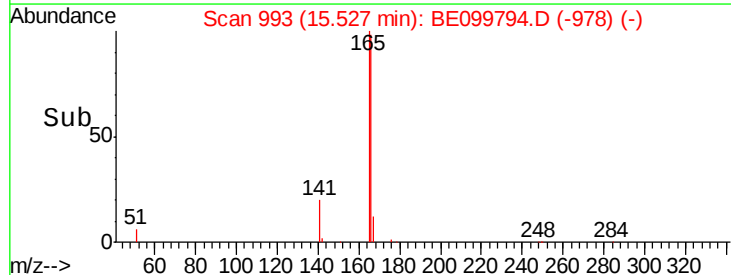
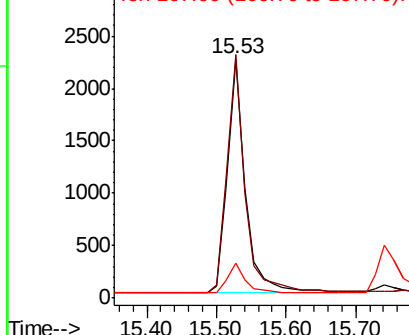


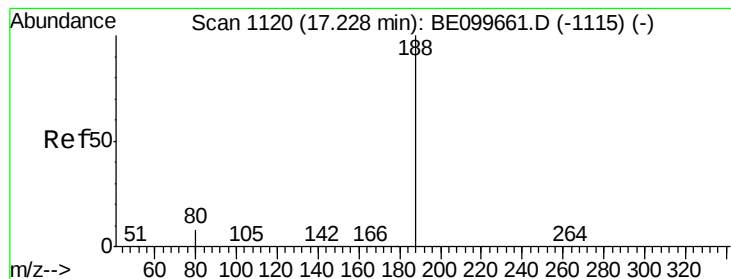
#18  
Fluorene  
Concen: 0.325 ng  
RT: 15.53 min Scan# 993  
Delta R.T. -0.00 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

Tgt Ion:166 Resp: 3998  
Ion Ratio Lower Upper  
166 100  
165 101.2 80.3 120.5  
167 13.4 10.6 16.0



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: 17.23 min Scan# 1120

Delta R.T. -0.00 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

Instrument :

BNA\_E

ClientSampleId :

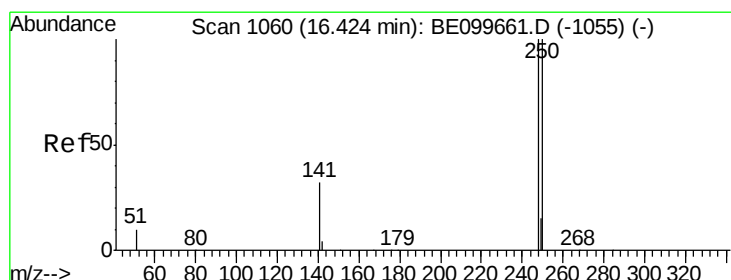
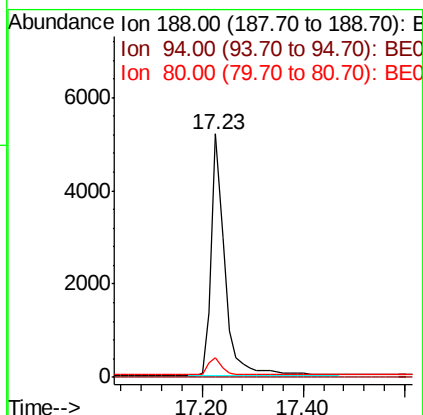
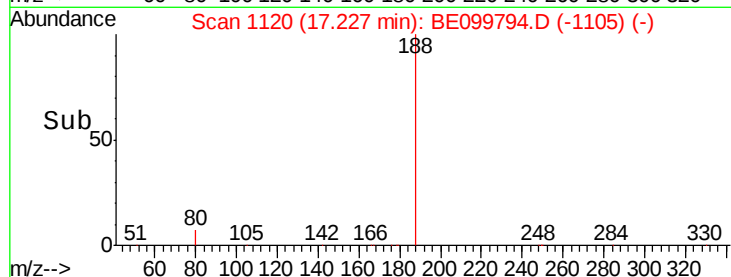
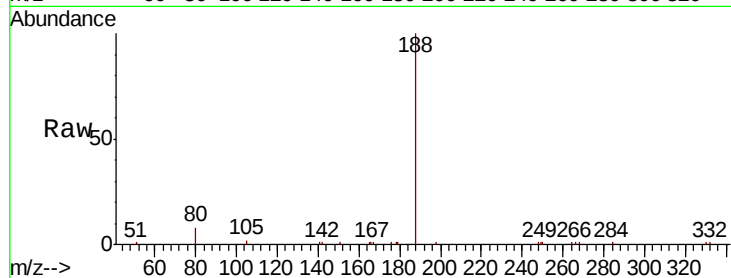
Tot Ion:188 Resp: 9508

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 6.7 10.1



#20

4-Bromophenyl-phenylether

Concen: 0.315 ng

RT: 16.42 min Scan# 1060

Delta R.T. -0.00 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

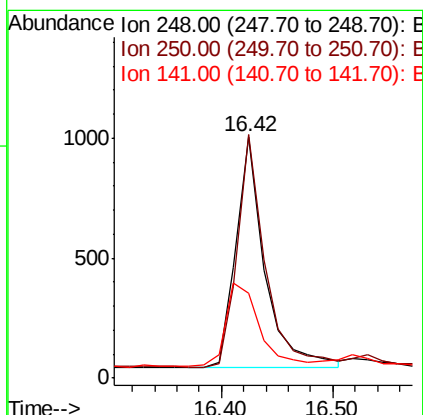
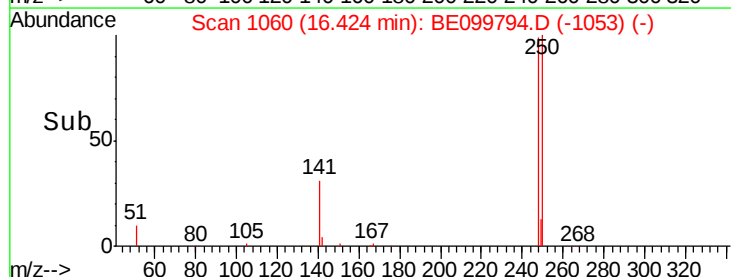
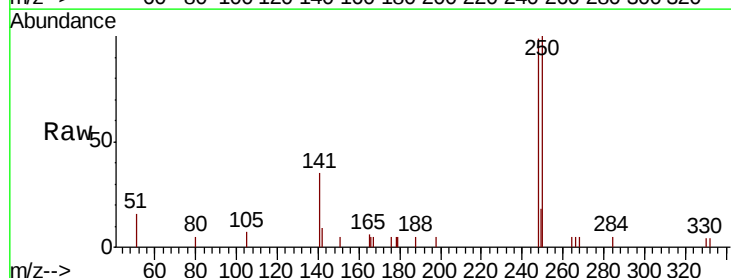
Tgt Ion:248 Resp: 1729

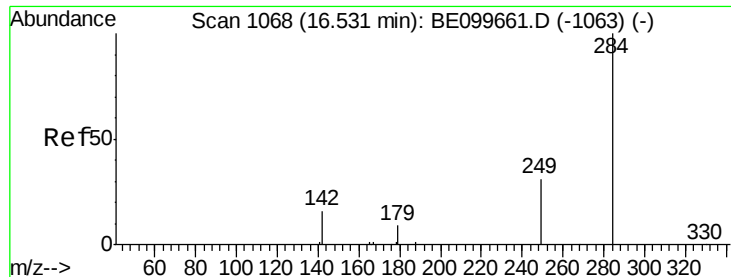
Ion Ratio Lower Upper

248 100

250 100.9 79.8 119.8

141 35.0 27.0 40.6





#21

Hexachlorobenzene

Concen: 0.353 ng

RT: 16.53 min Scan# 1068

Delta R.T. -0.00 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

Instrument :

BNA\_E

ClientSampleId :

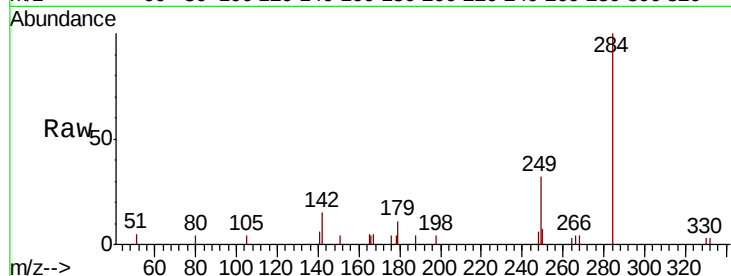
Tot Ion:284 Resp: 1983

Ion Ratio Lower Upper

284 100

142 21.9 17.8 26.6

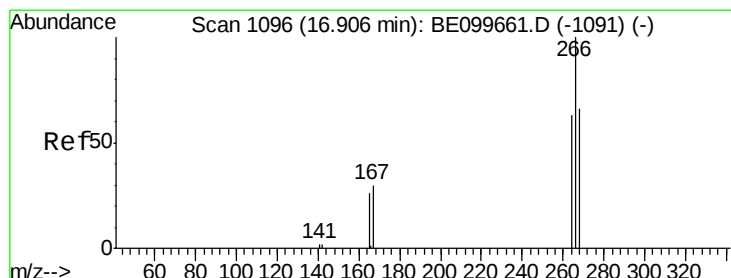
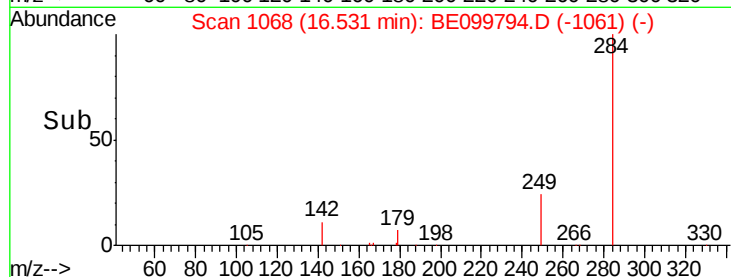
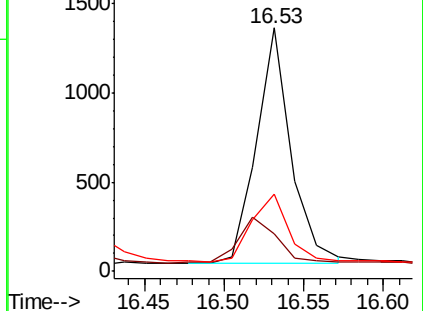
249 30.7 24.8 37.2



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: 0.277 ng

RT: 16.93 min Scan# 1098

Delta R.T. 0.03 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

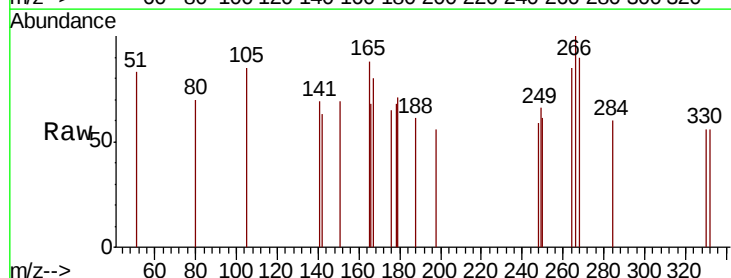
Tgt Ion:266 Resp: 163

Ion Ratio Lower Upper

266 100

264 85.0 57.2 85.8

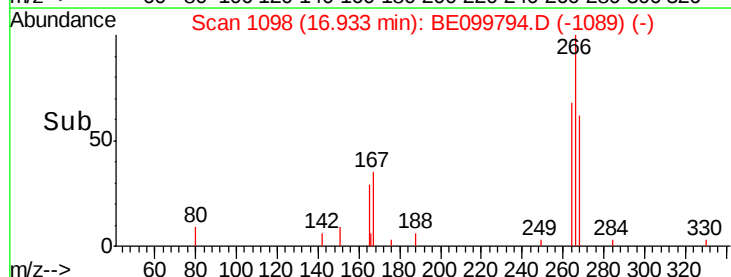
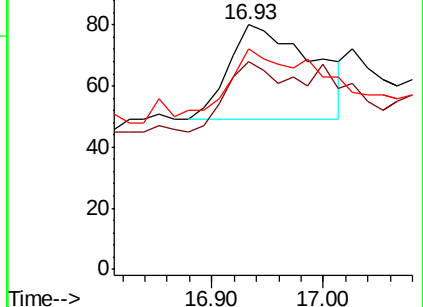
268 90.0 60.5 90.7

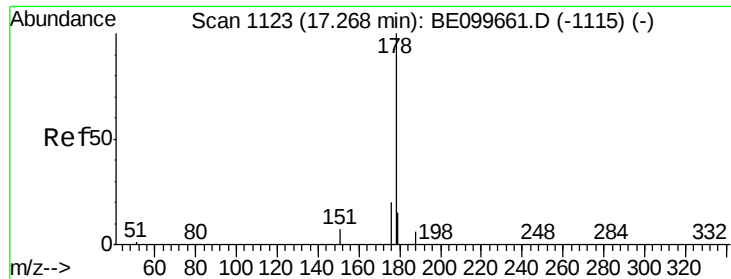


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.338 ng

RT: 17.27 min Scan# 1123

Delta R.T. -0.00 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

Instrument :

BNA\_E

ClientSampleId :

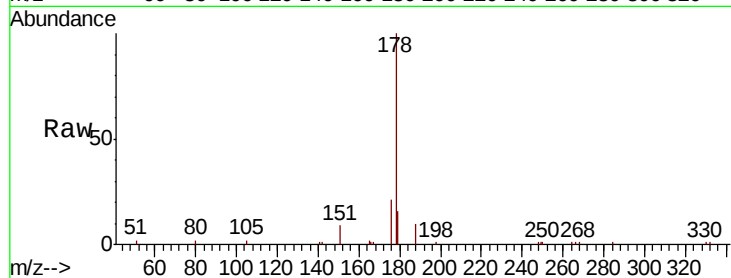
Tot Ion:178 Resp: 7859

Ion Ratio Lower Upper

178 100

176 19.9 15.6 23.4

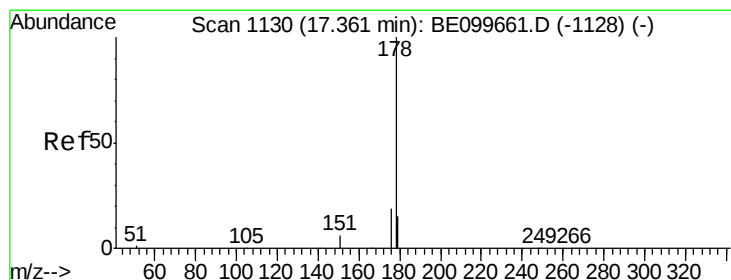
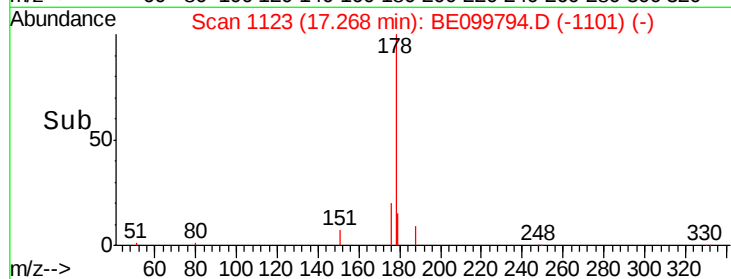
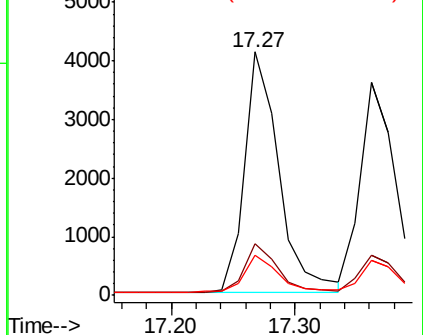
179 15.5 12.2 18.4



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: 0.322 ng

RT: 17.36 min Scan# 1130

Delta R.T. -0.00 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

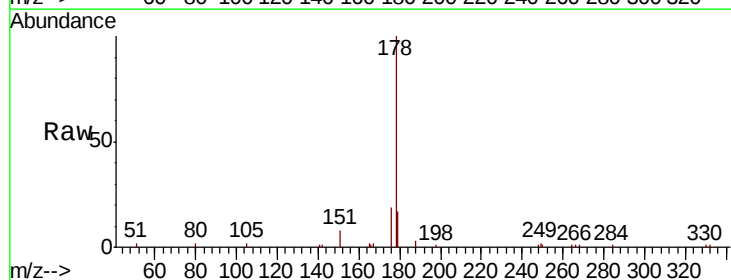
Tgt Ion:178 Resp: 6785

Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

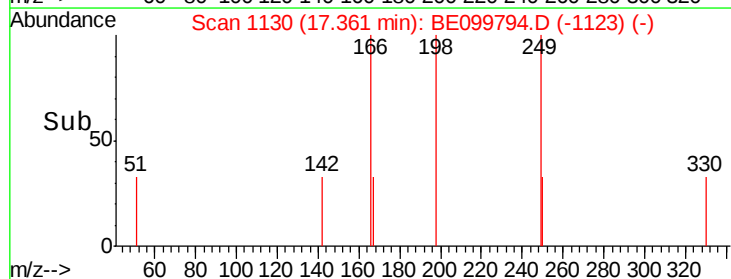
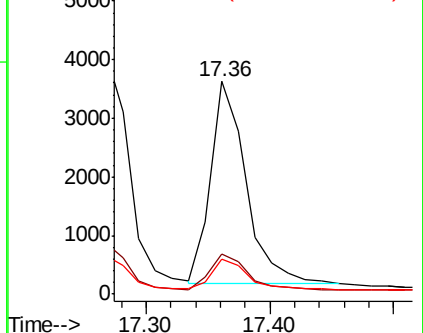
179 15.3 12.0 18.0

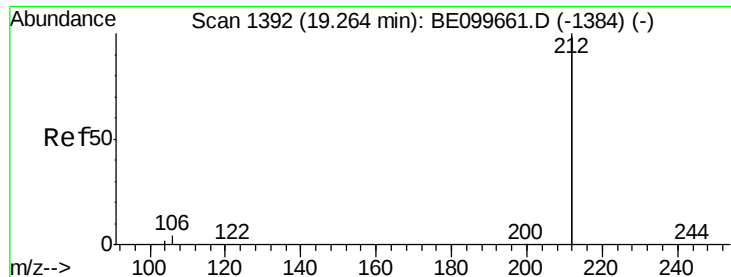


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.389 ng

RT: 19.26 min Scan# 1392

Delta R.T. 0.00 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

Instrument :

BNA\_E

ClientSampleId :

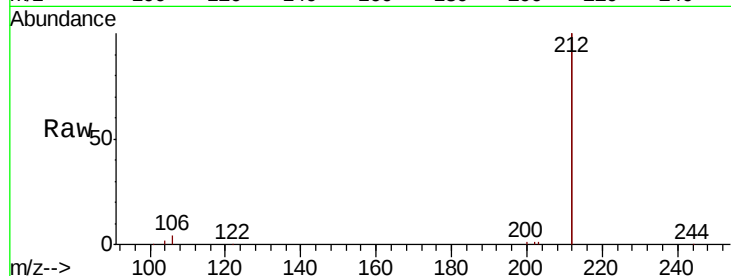
Tot Ion:212 Resp: 50604

Ion Ratio Lower Upper

212 100

106 1.8 1.4 2.2

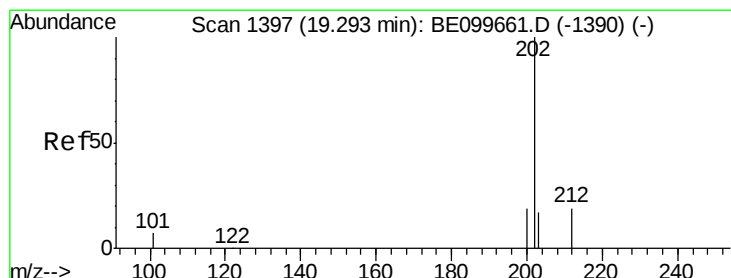
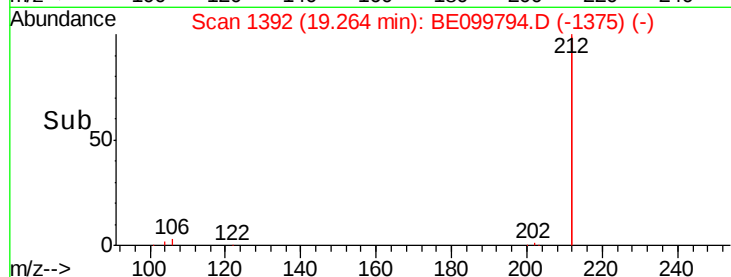
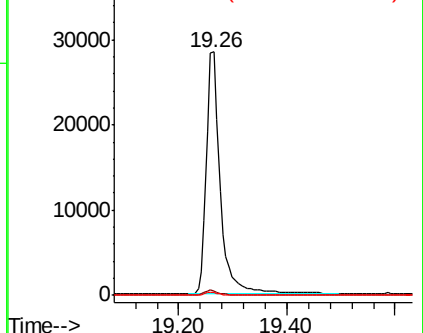
104 1.0 0.8 1.2



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: 0.404 ng

RT: 19.29 min Scan# 1397

Delta R.T. 0.00 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

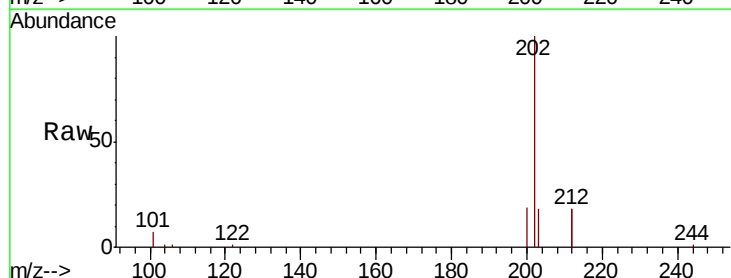
Tgt Ion:202 Resp: 14822

Ion Ratio Lower Upper

202 100

101 6.5 5.2 7.8

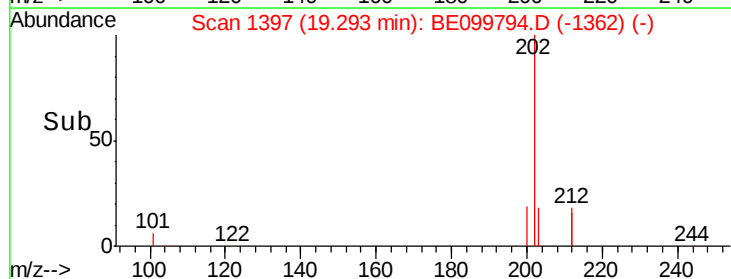
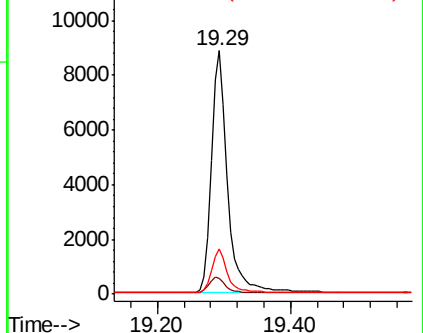
203 17.1 13.8 20.6



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

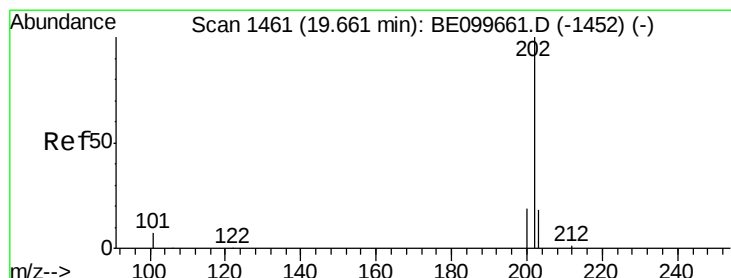
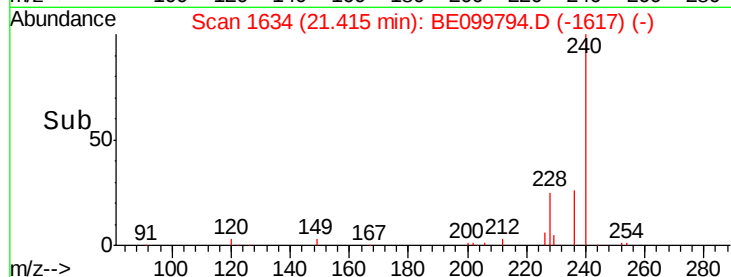
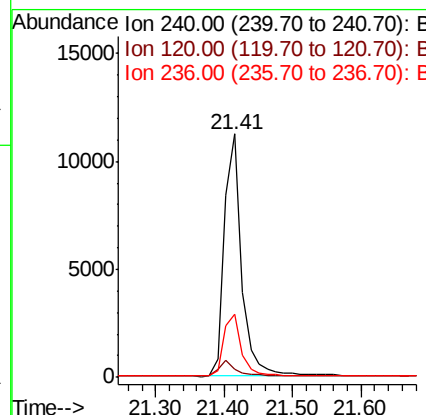
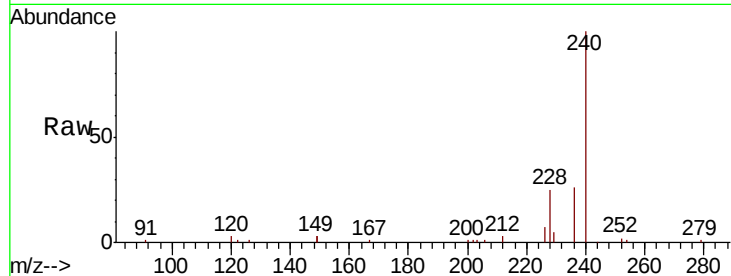




#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.41 min Scan# 1634  
 Delta R.T. 0.00 min  
 Lab File: BE099794.D  
 Acq: 4 Jun 2019 10:29

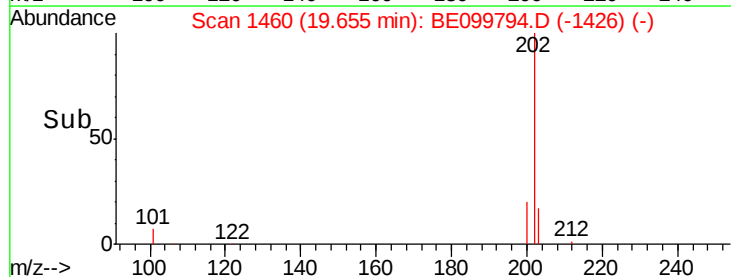
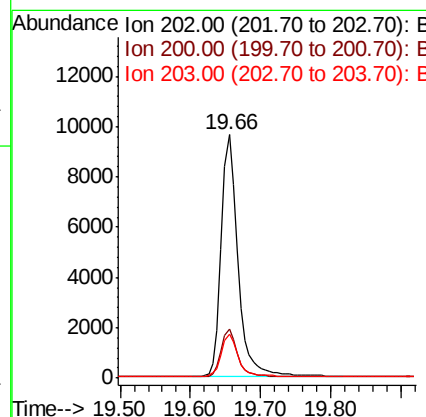
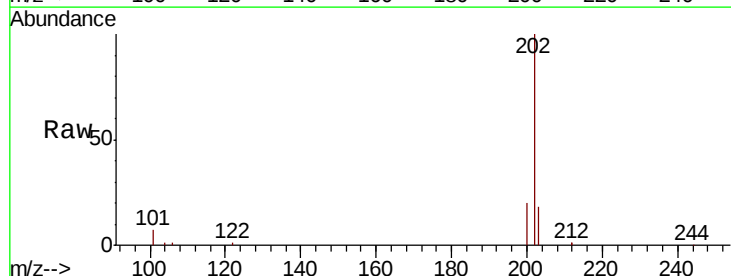
Instrument :  
 BNA\_E  
 ClientSampled :

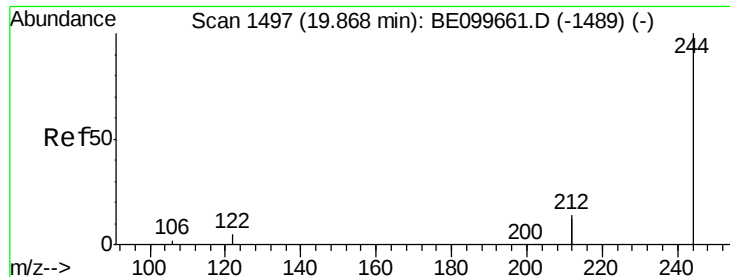
Tot Ion:240 Resp: 19891  
 Ion Ratio Lower Upper  
 240 100  
 120 3.4 5.4 8.0#  
 236 26.2 21.7 32.5



#28  
 Pyrene  
 Concen: 0.319 ng  
 RT: 19.66 min Scan# 1460  
 Delta R.T. -0.01 min  
 Lab File: BE099794.D  
 Acq: 4 Jun 2019 10:29

Tgt Ion:202 Resp: 15932  
 Ion Ratio Lower Upper  
 202 100  
 200 19.6 15.4 23.2  
 203 17.9 13.8 20.8





#29

Terphenyl-d14

Concen: 0.319 ng

RT: 19.86 min Scan# 1496

Delta R.T. -0.01 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

Instrument :

BNA\_E

ClientSampleId :

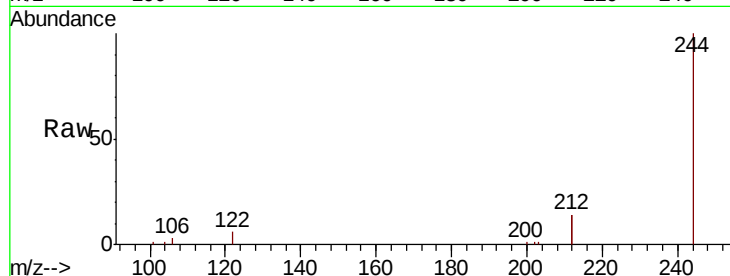
Tot Ion:244 Resp: 11317

Ion Ratio Lower Upper

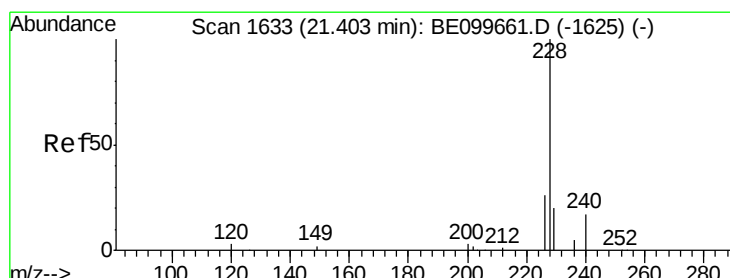
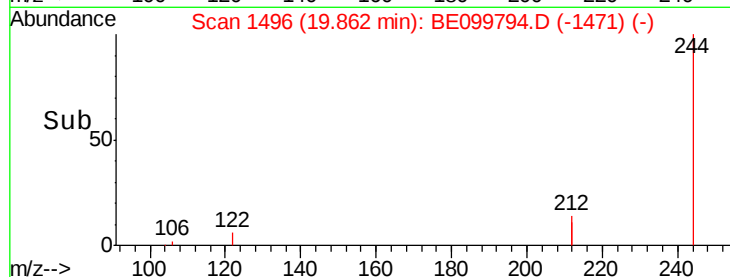
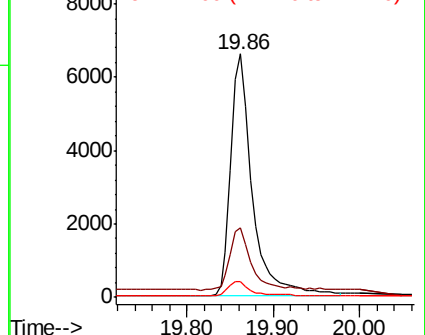
244 100

212 28.4 22.5 33.7

122 6.3 4.3 6.5



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: 0.397 ng

RT: 21.39 min Scan# 1632

Delta R.T. -0.01 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

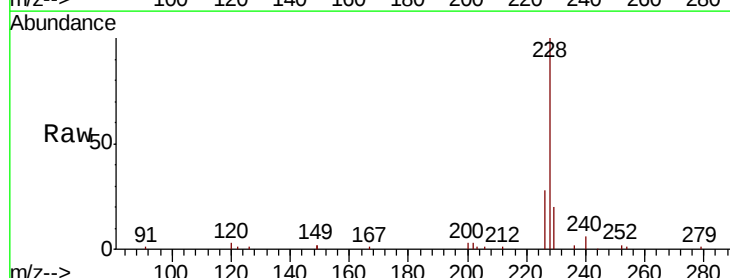
Tgt Ion:228 Resp: 22454

Ion Ratio Lower Upper

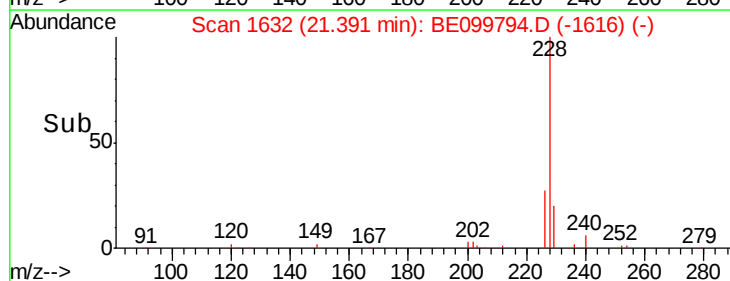
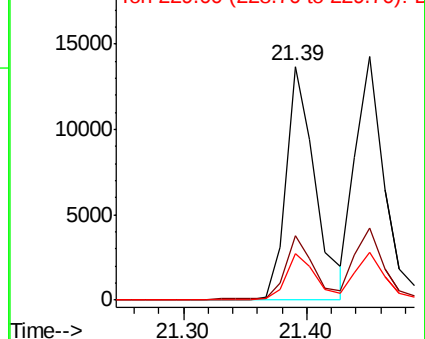
228 100

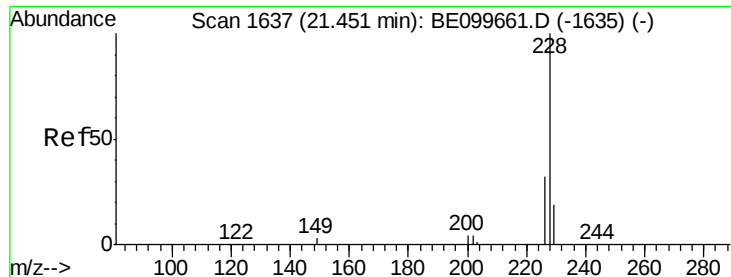
226 27.8 21.3 31.9

229 19.9 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





#31

Chrysene

Concen: 0.374 ng

RT: 21.45 min Scan# 1637

Delta R.T. 0.00 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

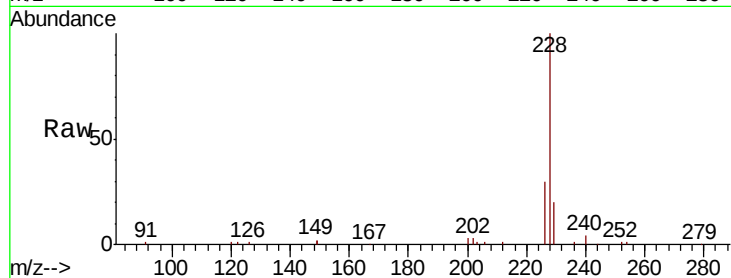
Instrument :

BNA\_E

ClientSampleId :

Tot Ion:228 Resp: 22595

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.5  | 24.7  | 37.1  |
| 229 | 19.7  | 15.8  | 23.6  |

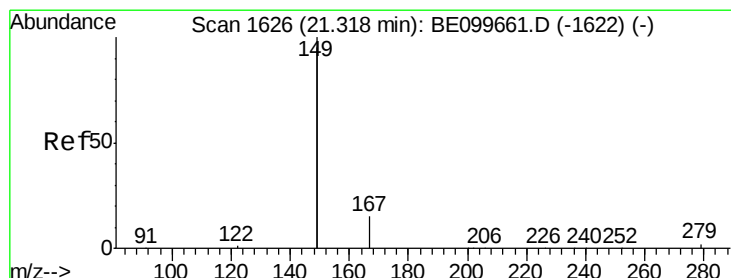
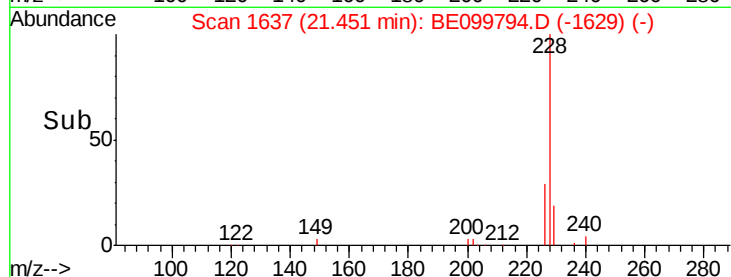
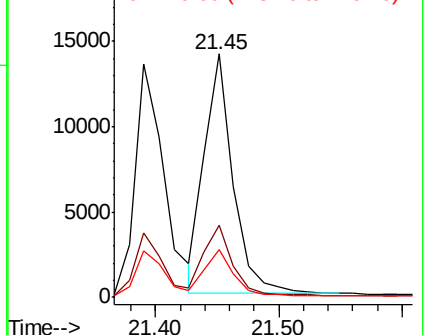


Abundance

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: 0.346 ng

RT: 21.31 min Scan# 1625

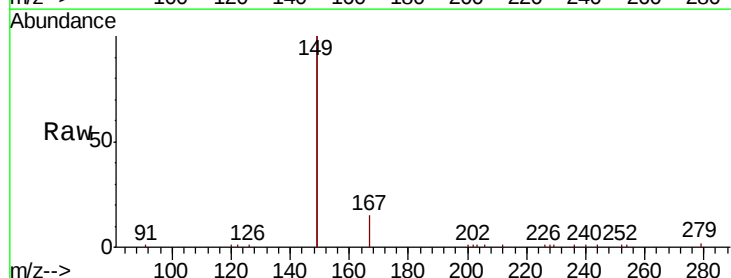
Delta R.T. -0.01 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

Tgt Ion:149 Resp: 22546

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 7.5   | 6.2   | 9.4   |
| 279 | 1.7   | 1.2   | 1.8   |

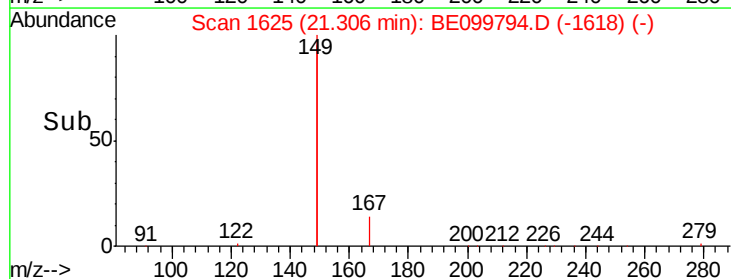
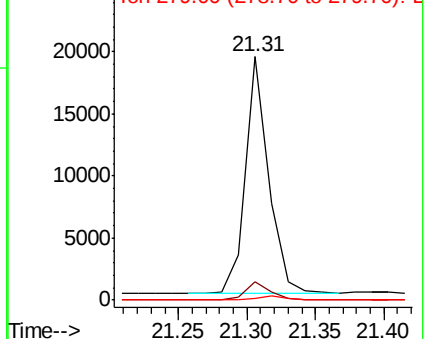


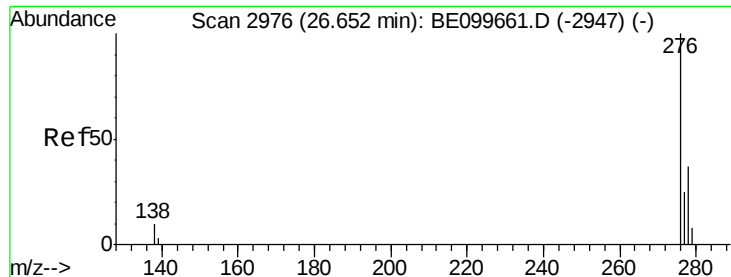
Abundance

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

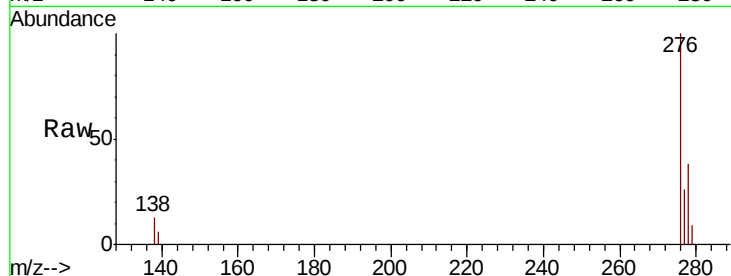




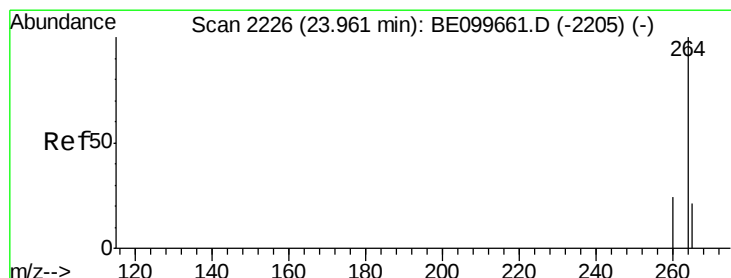
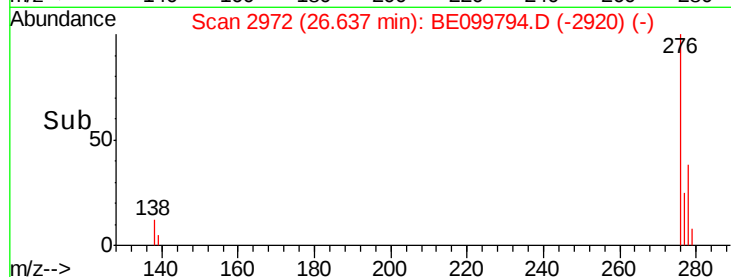
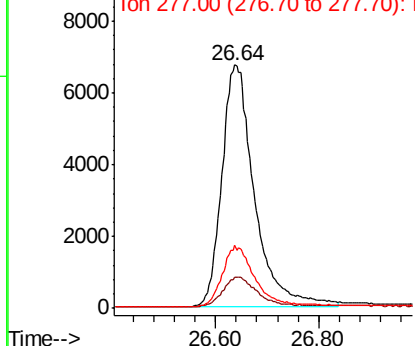
#33  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.405 ng  
 RT: 26.64 min Scan# 2972  
 Delta R.T. -0.01 min  
 Lab File: BE099794.D  
 Acq: 4 Jun 2019 10:29

Instrument :  
 BNA\_E  
 ClientSampleId :

Tot Ion:276 Resp: 29520  
 Ion Ratio Lower Upper  
 276 100  
 138 12.3 9.6 14.4  
 277 24.5 19.2 28.8

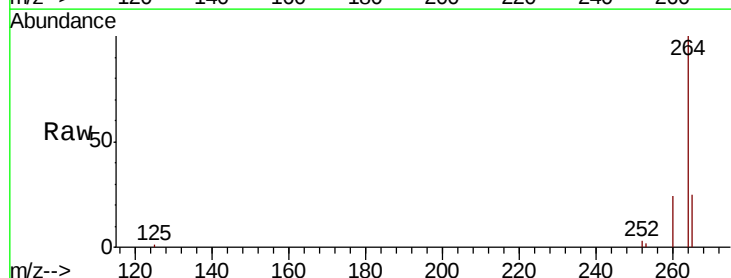


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

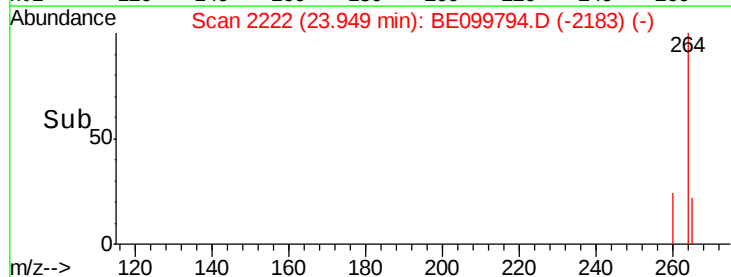
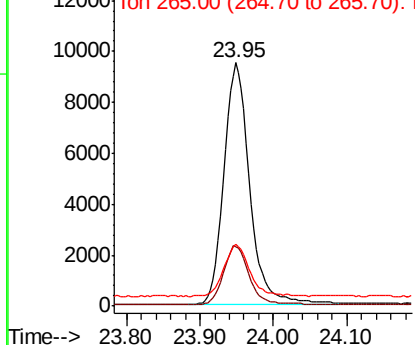


#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.95 min Scan# 2222  
 Delta R.T. -0.01 min  
 Lab File: BE099794.D  
 Acq: 4 Jun 2019 10:29

Tgt Ion:264 Resp: 23707  
 Ion Ratio Lower Upper  
 264 100  
 260 24.3 19.6 29.4  
 265 25.4 19.1 28.7



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

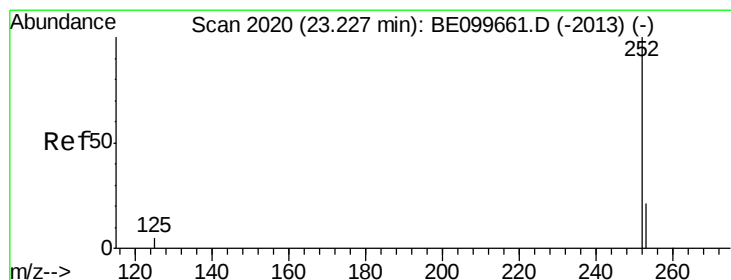
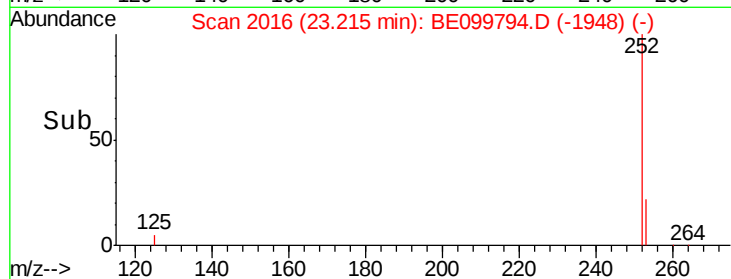
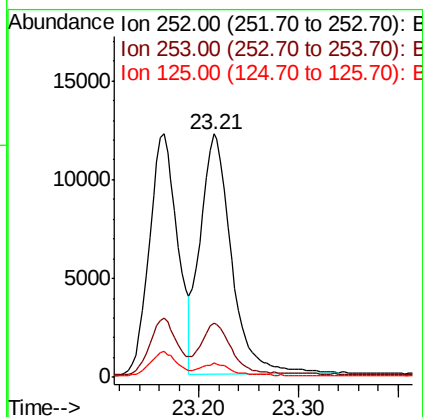
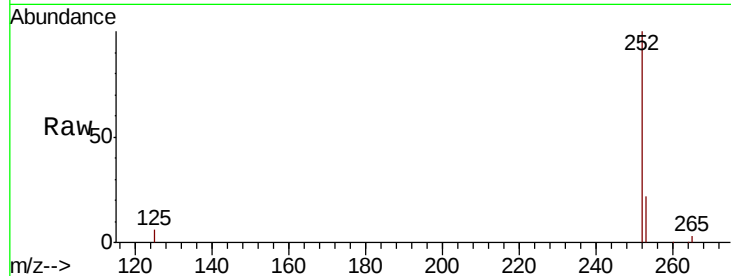




#35  
Benzo(b)fluoranthene  
Concen: 0.406 ng  
RT: 23.21 min Scan# 2016  
Delta R.T. 0.04 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

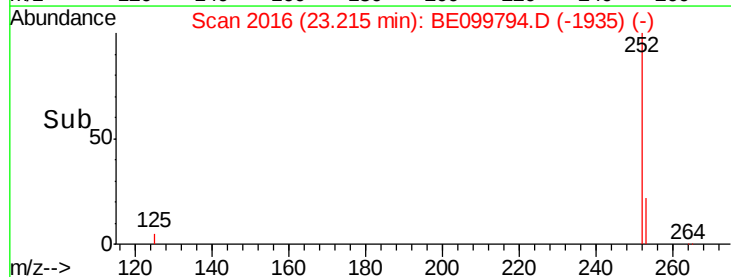
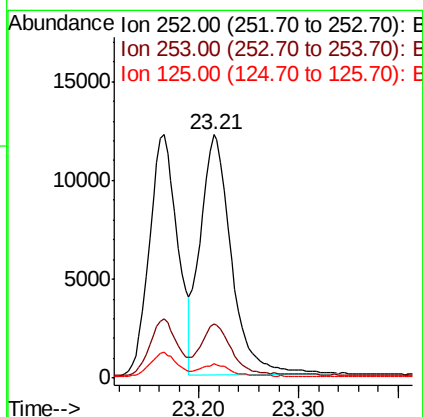
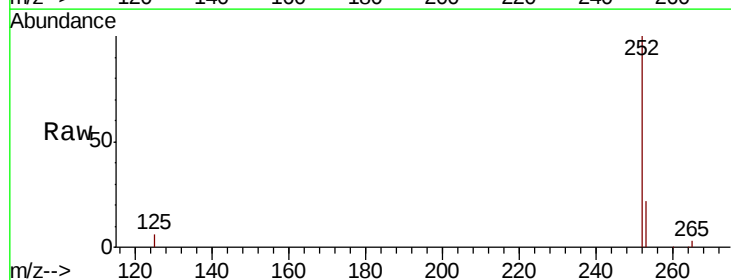
Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:252 Resp: 26346  
Ion Ratio Lower Upper  
252 100  
253 22.5 18.2 27.4  
125 5.7 4.5 6.7



#36  
Benzo(k)fluoranthene  
Concen: 0.389 ng  
RT: 23.21 min Scan# 2016  
Delta R.T. -0.01 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

Tgt Ion:252 Resp: 26346  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.8 26.8  
125 5.7 4.6 6.8

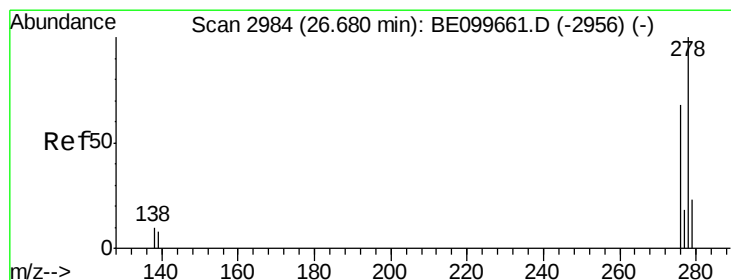
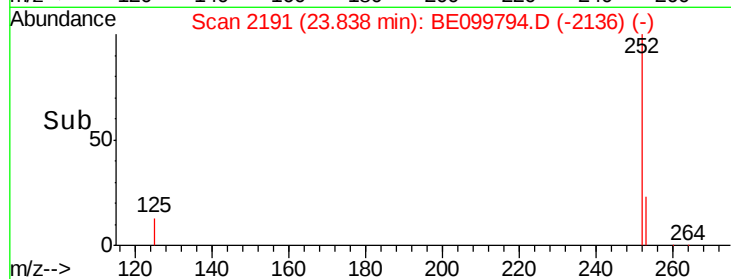
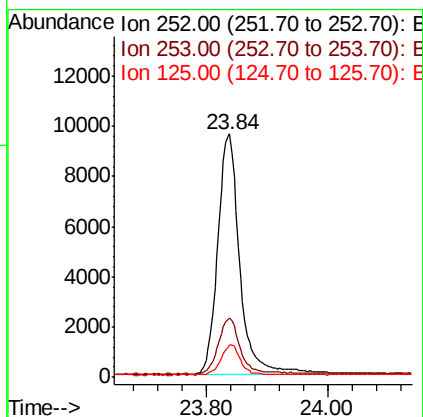
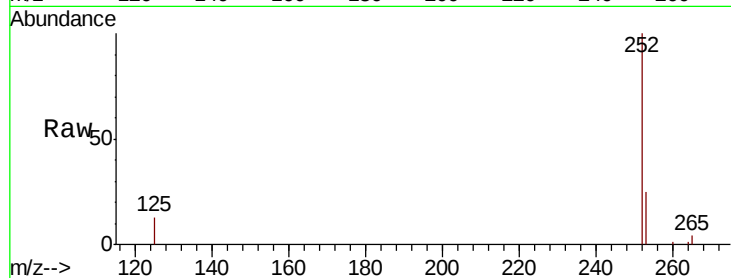




#37  
Benzo(a)pyrene  
Concen: 0.393 ng  
RT: 23.84 min Scan# 2191  
Delta R.T. -0.01 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

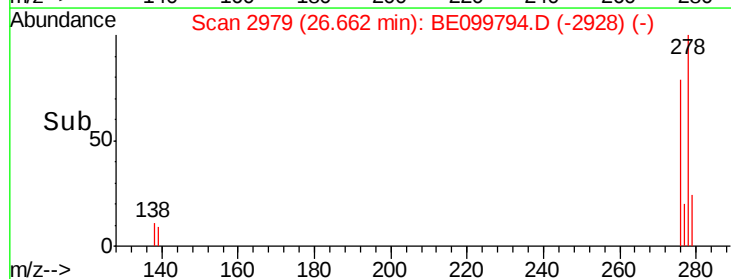
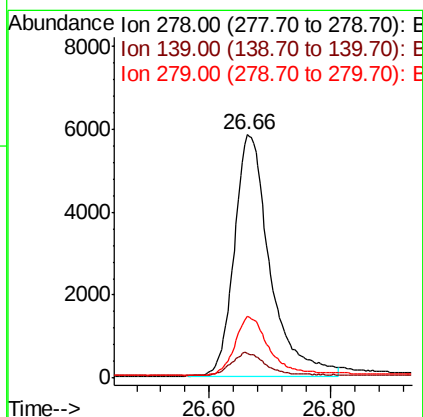
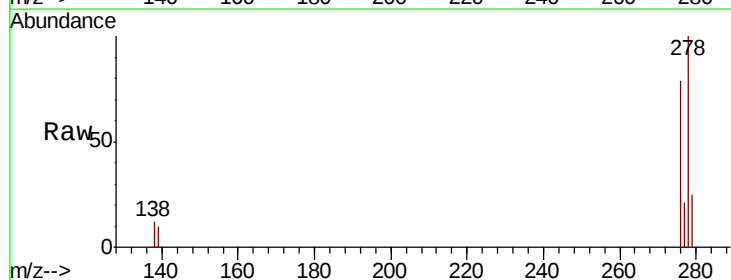
Instrument :  
BNA\_E  
ClientSampleId :

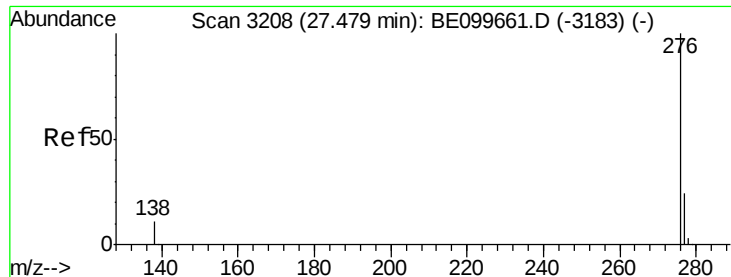
Tot Ion:252 Resp: 24553  
Ion Ratio Lower Upper  
252 100  
253 24.5 18.9 28.3  
125 13.3 5.4 8.0#



#38  
Dibenzo(a,h)anthracene  
Concen: 0.360 ng  
RT: 26.66 min Scan# 2979  
Delta R.T. -0.02 min  
Lab File: BE099794.D  
Acq: 4 Jun 2019 10:29

Tgt Ion:278 Resp: 23661  
Ion Ratio Lower Upper  
278 100  
139 10.3 6.9 10.3#  
279 25.5 19.2 28.8





#39

Benzo(a,h,i)perylene

Concen: 0.376 ng

RT: 27.47 min Scan# 3205

Delta R.T. -0.01 min

Lab File: BE099794.D

Acq: 4 Jun 2019 10:29

Instrument :

BNA\_E

ClientSampleId :

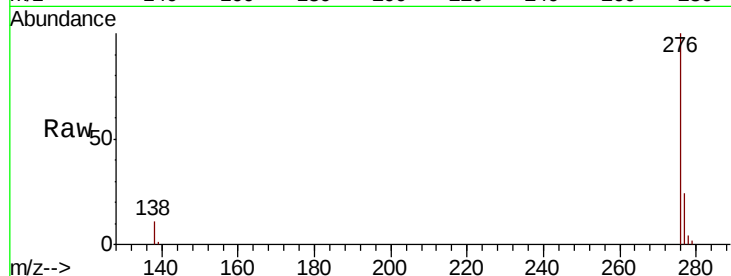
Tot Ion:276 Resp: 24924

Ion Ratio Lower Upper

276 100

277 24.0 19.8 29.6

138 10.9 9.2 13.8



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

