

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE051019\  
 Data File : BE099602.D  
 Acq On : 10 May 2019 17:07  
 Operator : JU/SJ  
 Sample : K2781-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: May 11 01:01:30 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE050919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 09 13:32:58 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.82  | 152  | 2082     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.63 | 136  | 7413     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.50 | 164  | 5090     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.24 | 188  | 14537    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.43 | 240  | 17987    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.97 | 264  | 20879    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.39  | 112  | 889      | 0.16 | ng    | 0.00     |
| 5) Phenol-d6                | 6.99  | 99   | 782      | 0.10 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.98  | 82   | 2161     | 0.31 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152  | 4379     | 0.35 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.98 | 330  | 1039     | 0.34 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.12 | 172  | 7229     | 0.37 | ng    | 0.00     |
| 25) Fluoranthene-d10        | 19.27 | 212  | 70947    | 0.37 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.87 | 244  | 15384    | 0.48 | ng    | 0.00     |

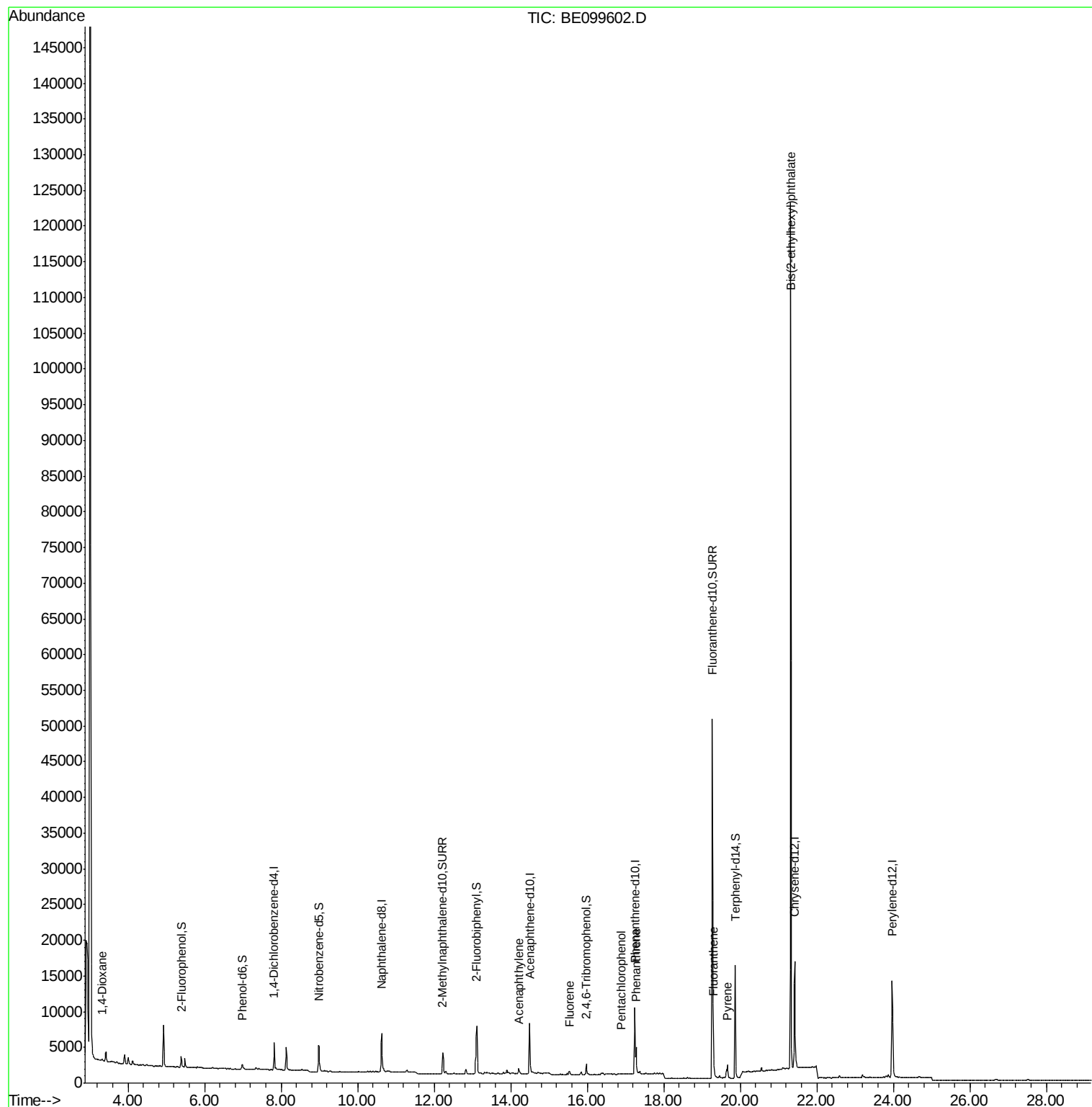
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.31  | 88   | 180      | 0.061 | ng    | # 43   |
| 16) Acenaphthylene             | 14.21 | 152  | 837      | 0.034 | ng    | 93     |
| 18) Fluorene                   | 15.53 | 166  | 428      | 0.022 | ng    | # 95   |
| 22) Pentachlorophenol          | 16.88 | 266  | 14       | 0.252 | ng    | # 72   |
| 23) Phenanthrene               | 17.28 | 178  | 3900     | 0.108 | ng    | 99     |
| 26) Fluoranthene               | 19.30 | 202  | 1563     | 0.029 | ng    | # 96   |
| 28) Pyrene                     | 19.66 | 202  | 1886     | 0.040 | ng    | 98     |
| 32) Bis(2-ethylhexyl)phthalate | 21.32 | 149  | 130654   | 1.655 | ng    | 100    |

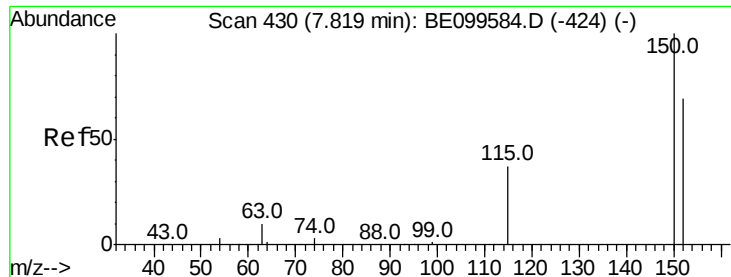
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE050919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 09 13:32:58 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: BE099602.D

Acq: 10 May 2019 17:07

Instrument :

BNA\_E

ClientSampleId :

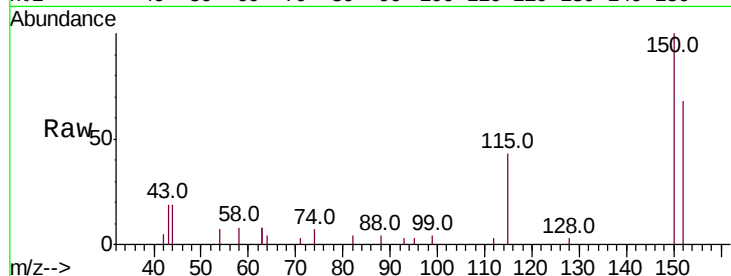
Tot Ion:152 Resp: 2082

Ion Ratio Lower Upper

152 100

150 146.8 114.2 171.4

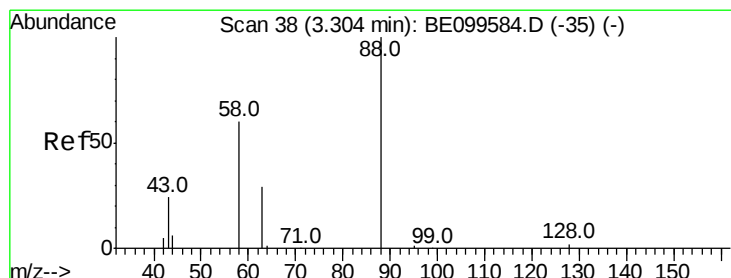
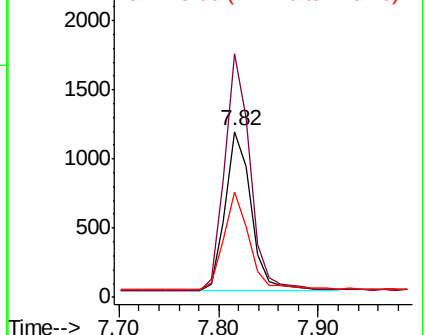
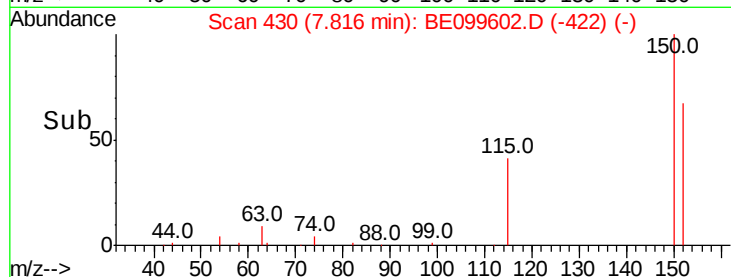
115 63.2 45.4 68.0



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: 0.061 ng

RT: 3.31 min Scan# 39

Delta R.T. 0.01 min

Lab File: BE099602.D

Acq: 10 May 2019 17:07

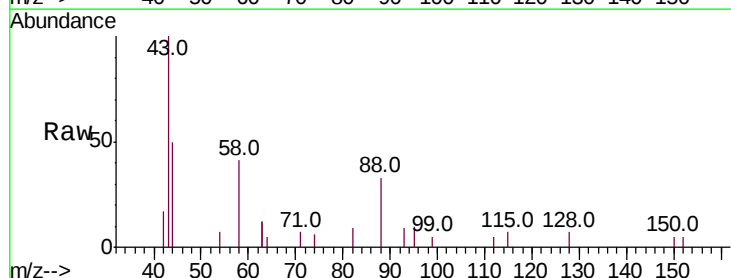
Tgt Ion: 88 Resp: 180

Ion Ratio Lower Upper

88 100

58 93.3 41.3 61.9#

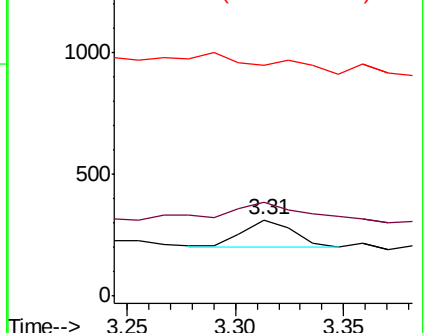
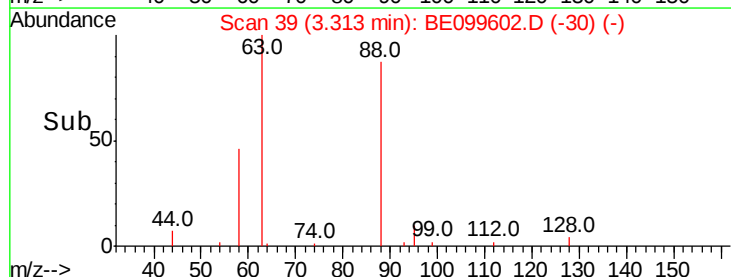
43 0.0 21.0 31.6#

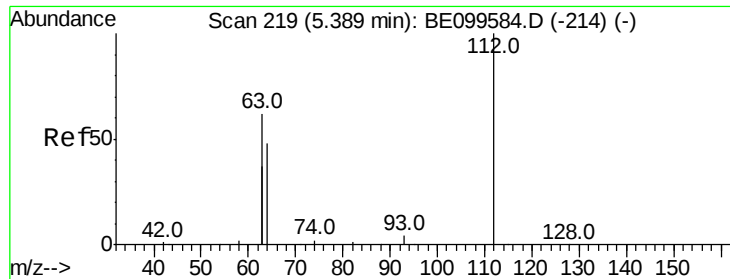


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.156 ng

RT: 5.39 min Scan# 219

Delta R.T. -0.00 min

Lab File: BE099602.D

Acq: 10 May 2019 17:07

Instrument :

BNA\_E

ClientSampled :

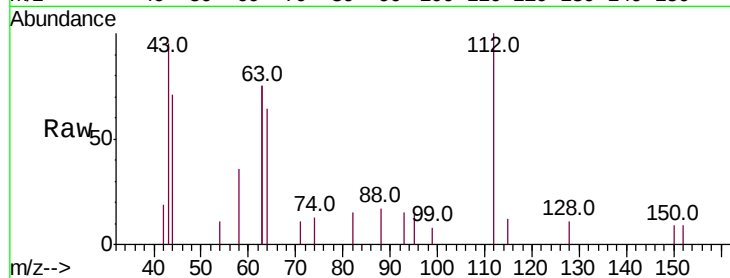
Tot Ion:112 Resp: 889

Ion Ratio Lower Upper

112 100

64 61.4 46.2 69.4

63 135.9 100.2 150.4

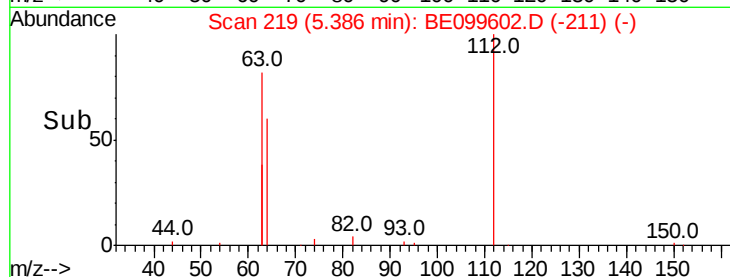


Abundance Ion 112.00 (111.70 to 112.70): BE0

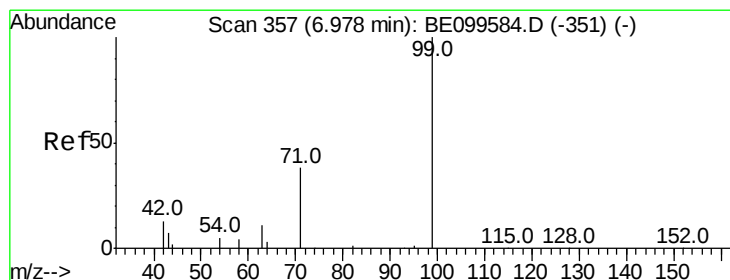
Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Time-->



Time-->



#5

Phenol-d6

Concen: 0.105 ng

RT: 6.99 min Scan# 358

Delta R.T. 0.01 min

Lab File: BE099602.D

Acq: 10 May 2019 17:07

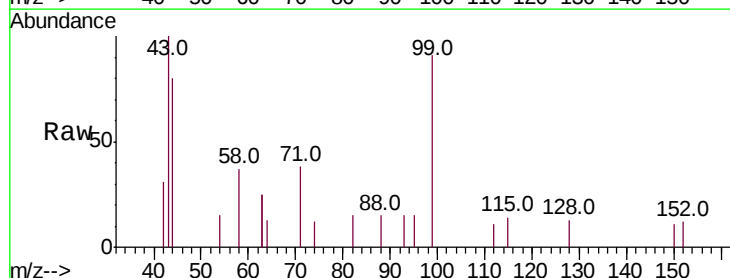
Tgt Ion: 99 Resp: 782

Ion Ratio Lower Upper

99 100

42 18.9 13.8 20.8

71 38.7 32.2 48.4

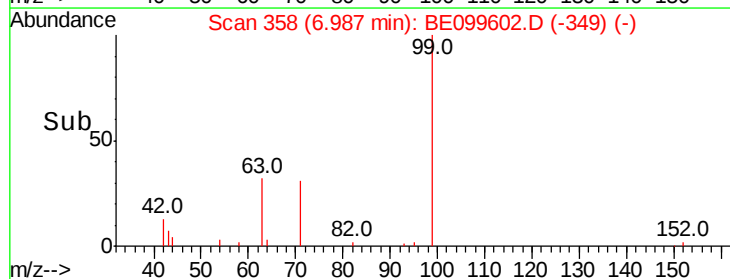


Abundance Ion 99.00 (98.70 to 99.70): BE0

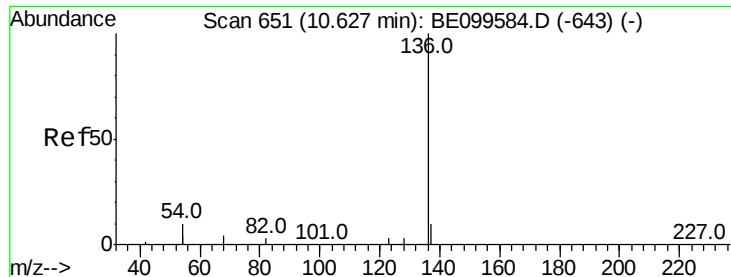
Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0

Time-->



Time-->



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. -0.00 min

Lab File: BE099602.D

Acq: 10 May 2019 17:07

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:136 Resp: 7413

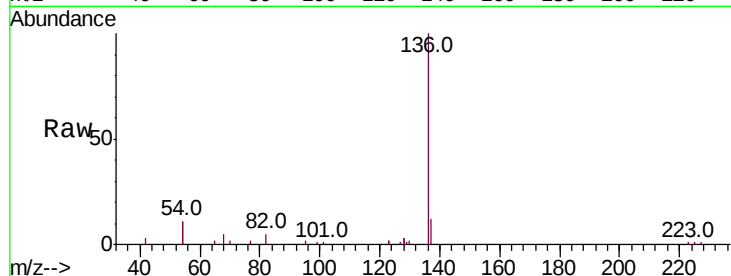
Ion Ratio Lower Upper

136 100

137 12.0 9.1 13.7

54 21.9 16.5 24.7

68 5.3 4.5 6.7

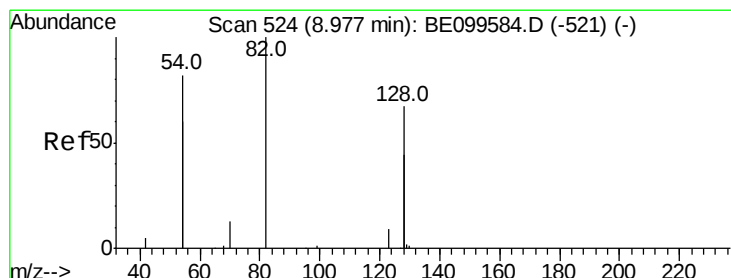
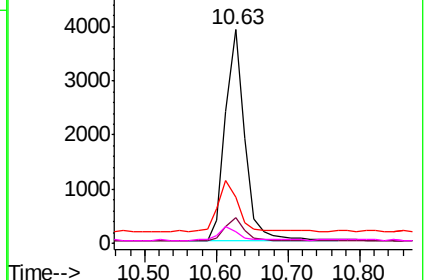
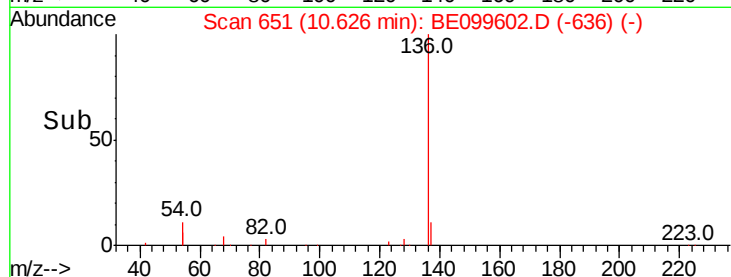


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.311 ng

RT: 8.98 min Scan# 524

Delta R.T. -0.00 min

Lab File: BE099602.D

Acq: 10 May 2019 17:07

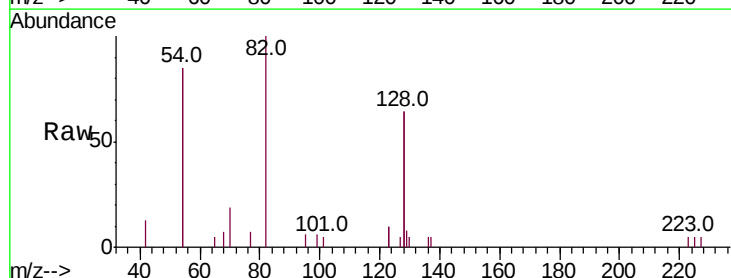
Tgt Ion: 82 Resp: 2161

Ion Ratio Lower Upper

82 100

128 127.6 101.5 152.3

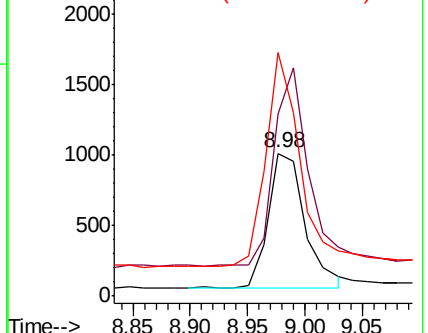
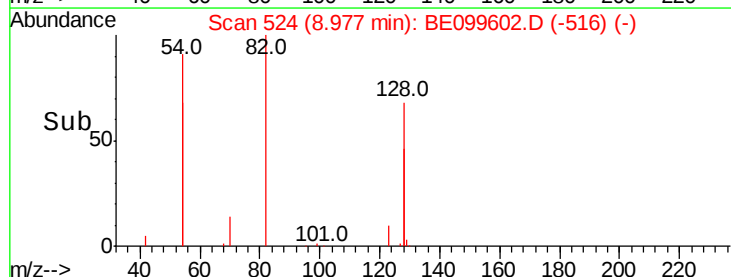
54 170.7 123.8 185.6

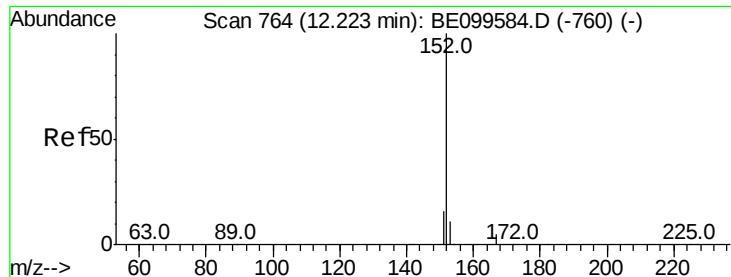


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

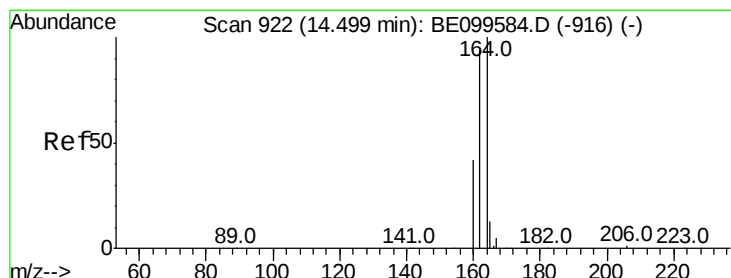
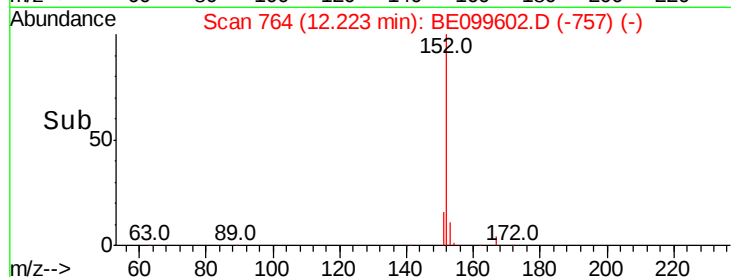
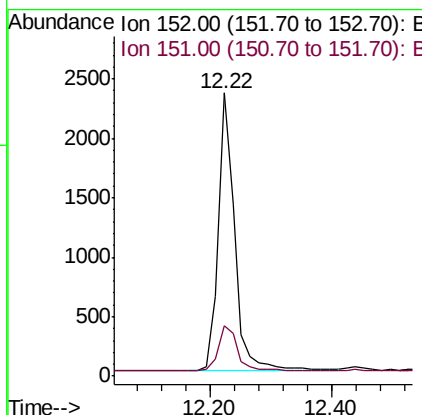
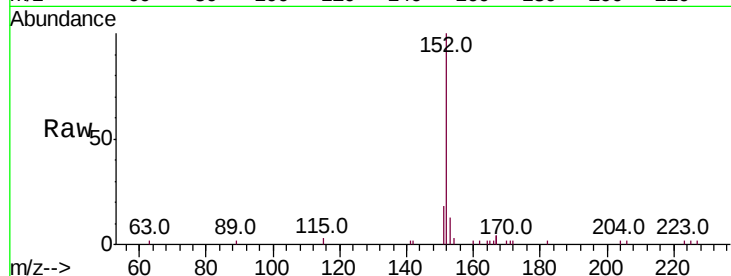




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.353 ng  
 RT: 12.22 min Scan# 764  
 Delta R.T. 0.00 min  
 Lab File: BE099602.D  
 Acq: 10 May 2019 17:07

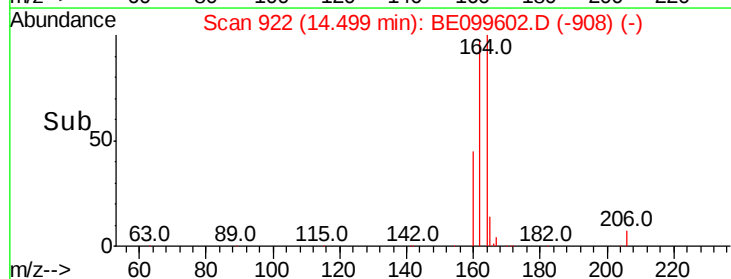
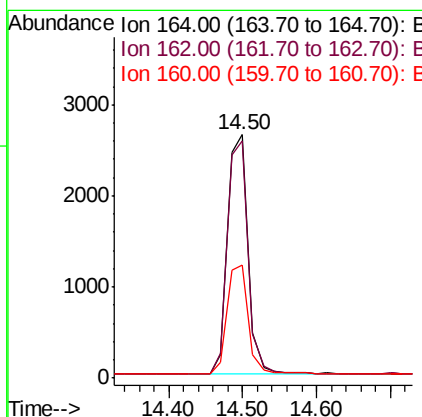
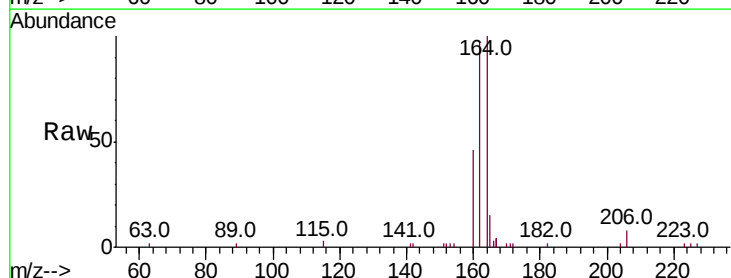
Instrument :  
 BNA\_E  
 ClientSampled :

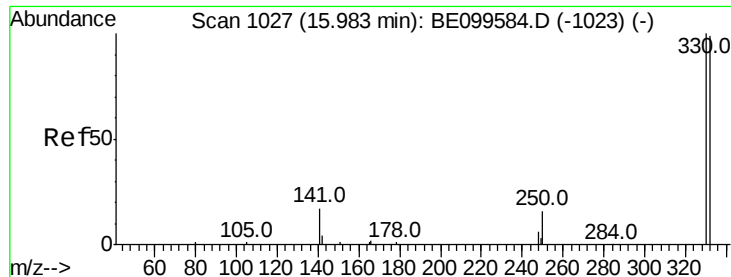
Tot Ion:152 Resp: 4379  
 Ion Ratio Lower Upper  
 152 100  
 151 19.4 16.2 24.2



#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.50 min Scan# 922  
 Delta R.T. 0.00 min  
 Lab File: BE099602.D  
 Acq: 10 May 2019 17:07

Tgt Ion:164 Resp: 5090  
 Ion Ratio Lower Upper  
 164 100  
 162 97.4 75.3 112.9  
 160 46.2 34.7 52.1

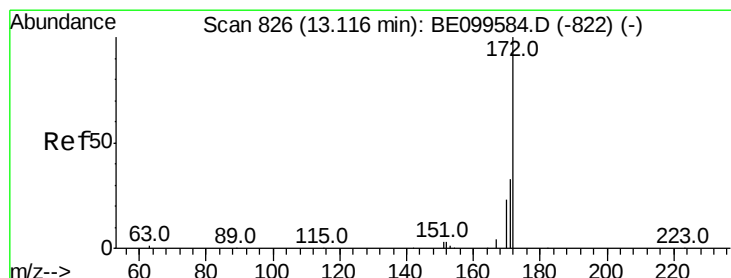
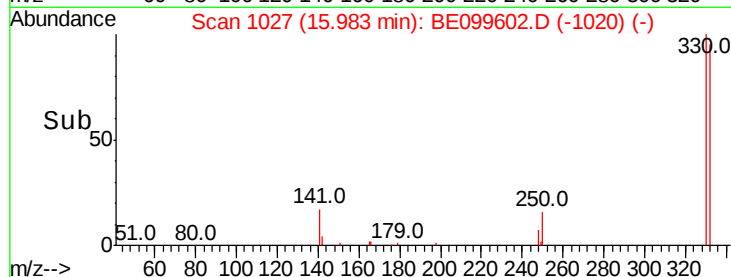
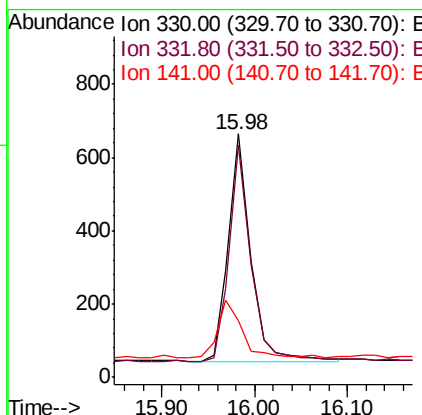
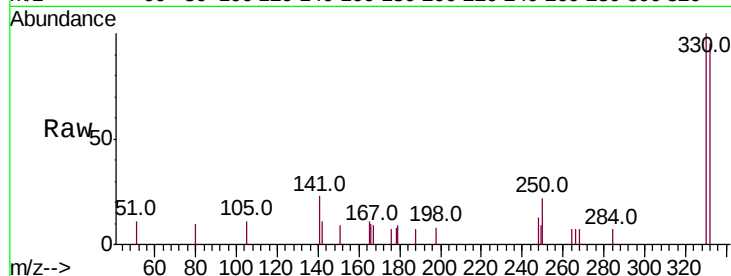




#14  
 2,4,6-Tribromophenol  
 Concen: 0.344 ng  
 RT: 15.98 min Scan# 1027  
 Delta R.T. -0.00 min  
 Lab File: BE099602.D  
 Acq: 10 May 2019 17:07

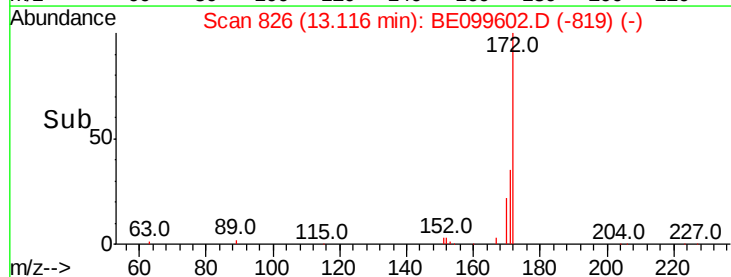
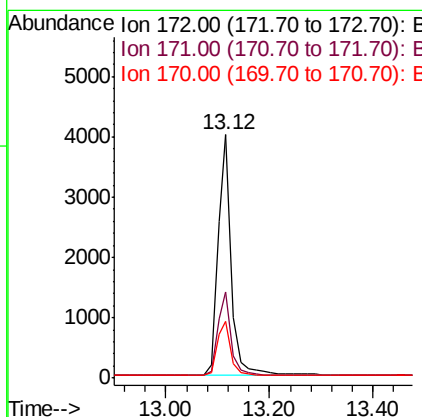
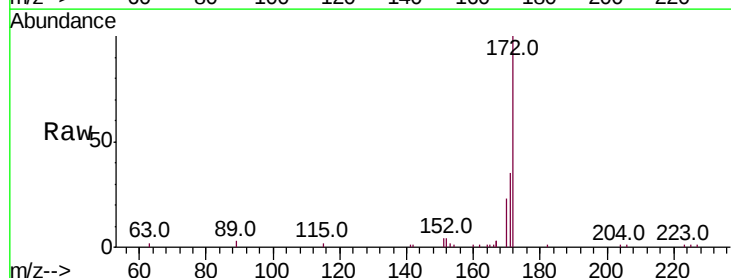
Instrument :  
 BNA\_E  
 ClientSampleId :

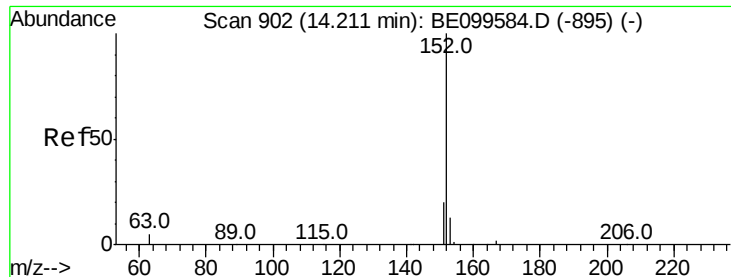
Tot Ion:330 Resp: 1039  
 Ion Ratio Lower Upper  
 330 100  
 332 92.3 78.7 118.1  
 141 25.7 22.3 33.5



#15  
 2-Fluorobiphenyl  
 Concen: 0.366 ng  
 RT: 13.12 min Scan# 826  
 Delta R.T. 0.00 min  
 Lab File: BE099602.D  
 Acq: 10 May 2019 17:07

Tgt Ion:172 Resp: 7229  
 Ion Ratio Lower Upper  
 172 100  
 171 35.3 27.5 41.3  
 170 23.4 19.1 28.7

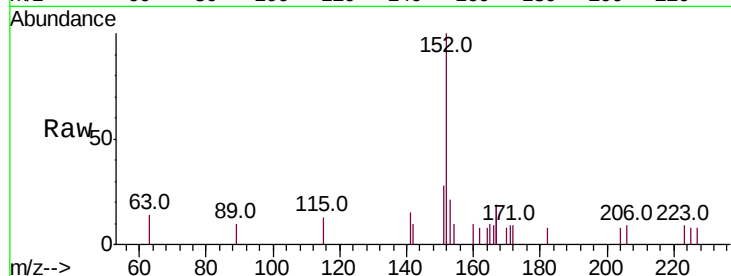




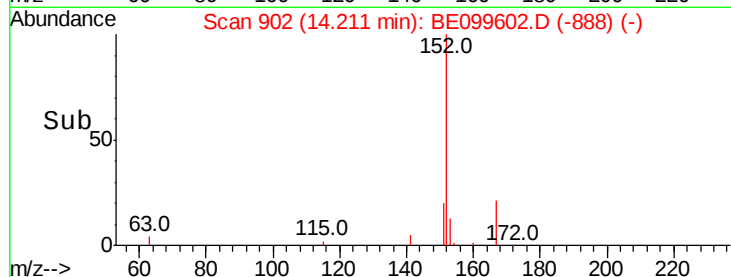
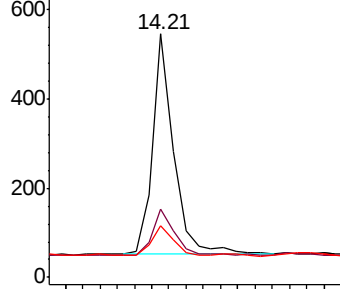
#16  
Acenaphthylene  
Concen: 0.034 ng  
RT: 14.21 min Scan# 902  
Delta R.T. 0.00 min  
Lab File: BE099602.D  
Acq: 10 May 2019 17:07

Instrument :  
BNA\_E  
ClientSampleId :

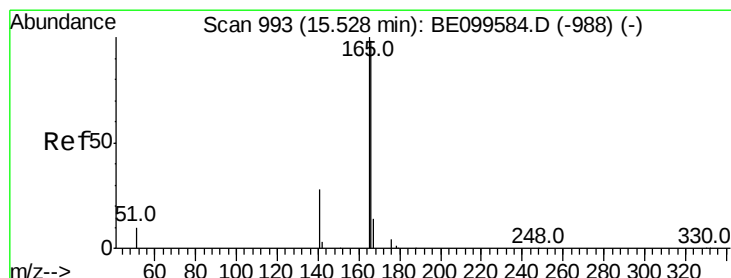
Tot Ion:152 Resp: 837  
Ion Ratio Lower Upper  
152 100  
151 23.1 15.5 23.3  
153 14.8 10.2 15.4



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

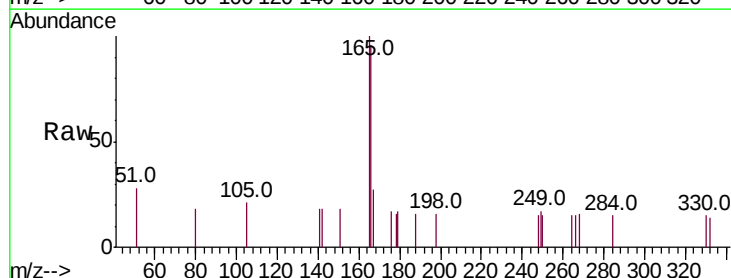


Time-->

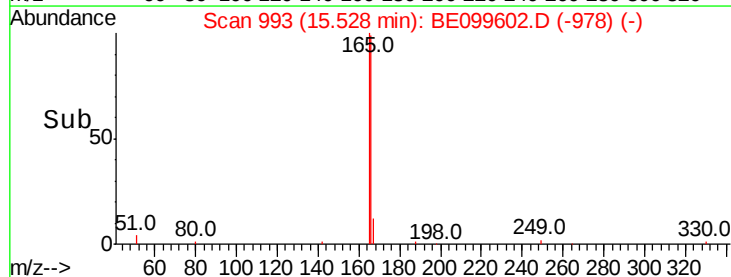
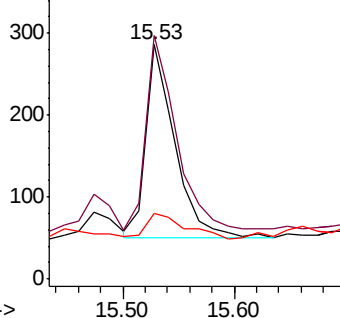


#18  
Fluorene  
Concen: 0.022 ng  
RT: 15.53 min Scan# 993  
Delta R.T. -0.00 min  
Lab File: BE099602.D  
Acq: 10 May 2019 17:07

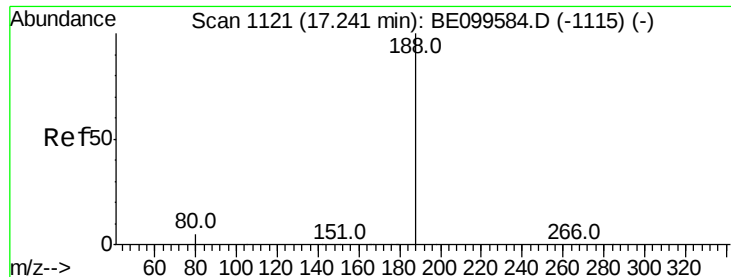
Tgt Ion:166 Resp: 428  
Ion Ratio Lower Upper  
166 100  
165 105.1 80.5 120.7  
167 17.8 11.6 17.4#



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



Time-->



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.24 min Scan# 1121

Delta R.T. -0.00 min

Lab File: BE099602.D

Acq: 10 May 2019 17:07

Instrument :

BNA\_E

ClientSampleId :

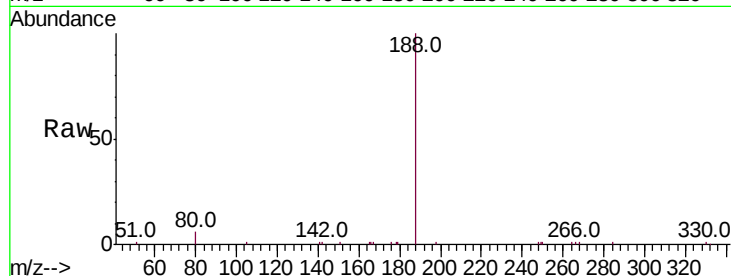
Tot Ion:188 Resp: 14537

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

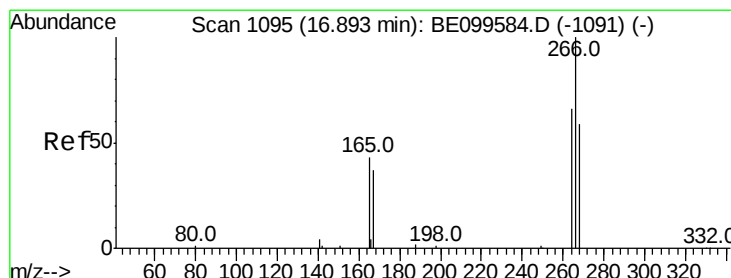
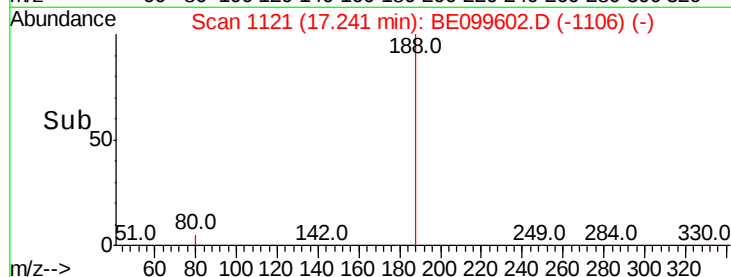
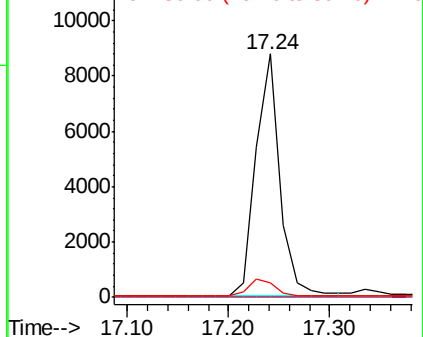
80 6.1 4.4 6.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#22

Pentachlorophenol

Concen: 0.252 ng

RT: 16.88 min Scan# 1094

Delta R.T. -0.01 min

Lab File: BE099602.D

Acq: 10 May 2019 17:07

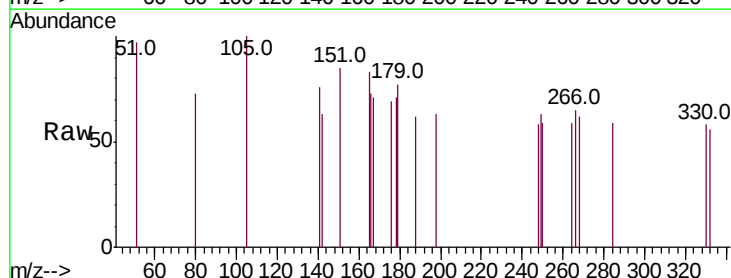
Tgt Ion:266 Resp: 14

Ion Ratio Lower Upper

266 100

264 90.2 57.3 85.9#

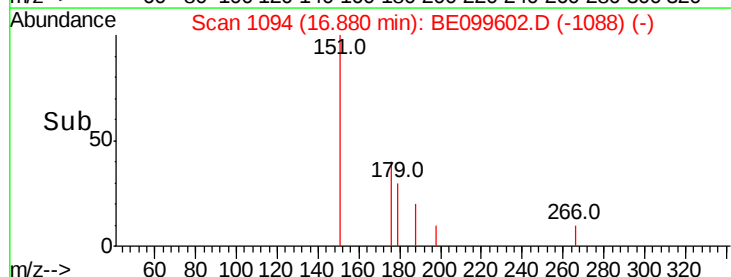
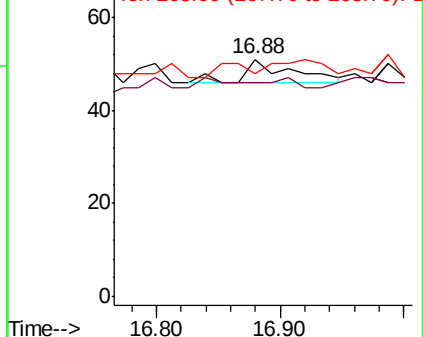
268 94.1 53.5 80.3#

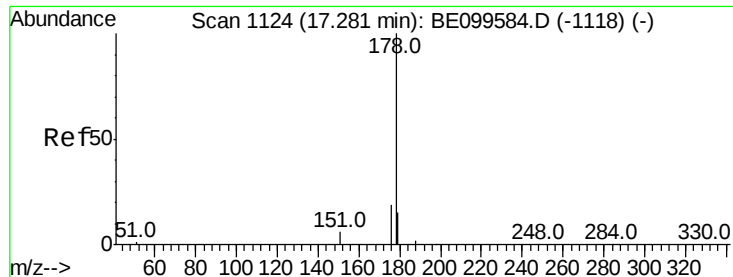


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.108 ng

RT: 17.28 min Scan# 1124

Delta R.T. -0.00 min

Lab File: BE099602.D

Acq: 10 May 2019 17:07

Instrument :

BNA\_E

ClientSampleId :

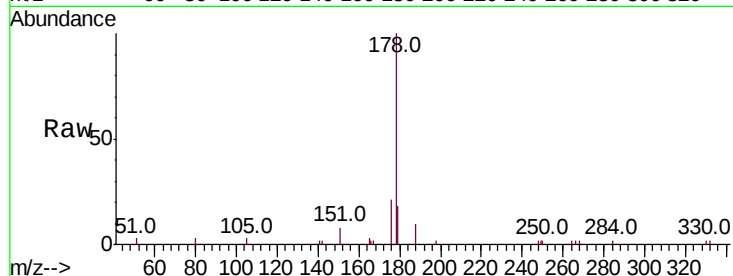
Tot Ion:178 Resp: 3900

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.6

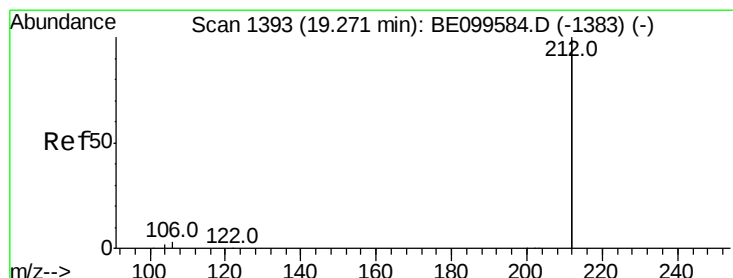
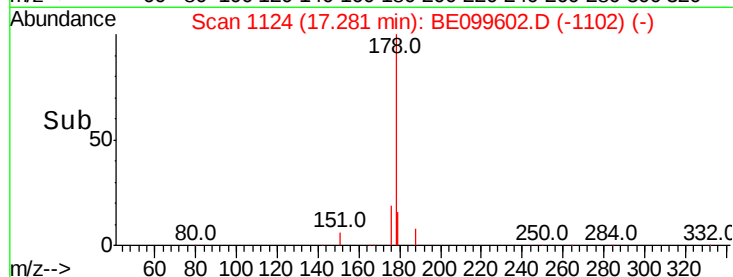
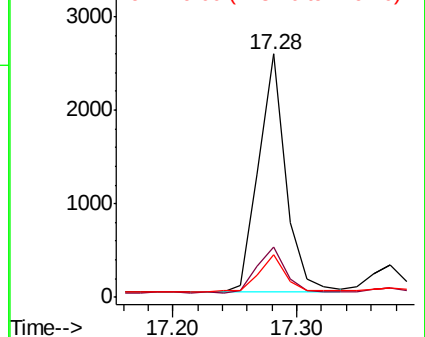
179 15.5 12.2 18.2



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: 0.371 ng

RT: 19.27 min Scan# 1393

Delta R.T. -0.00 min

Lab File: BE099602.D

Acq: 10 May 2019 17:07

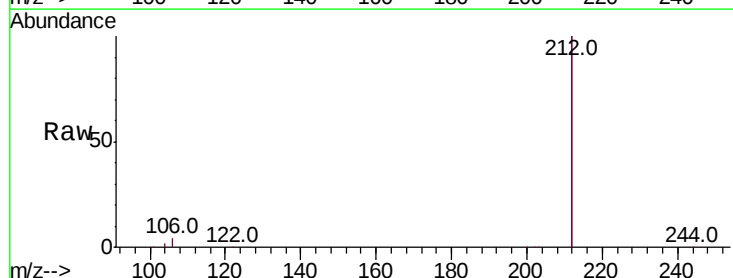
Tgt Ion:212 Resp: 70947

Ion Ratio Lower Upper

212 100

106 1.9 1.4 2.2

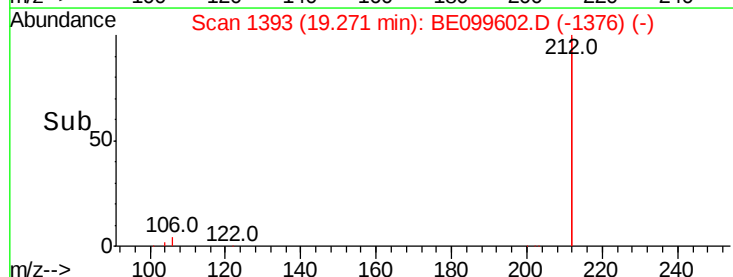
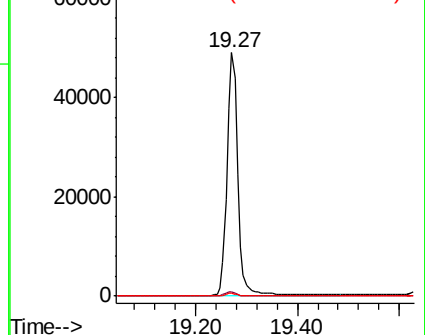
104 1.1 0.9 1.3

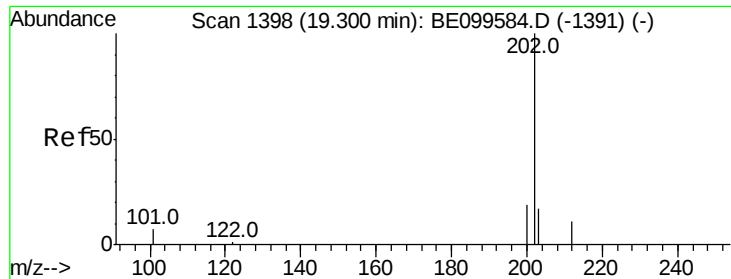


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

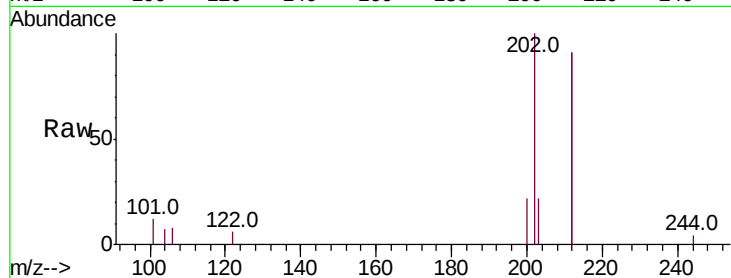




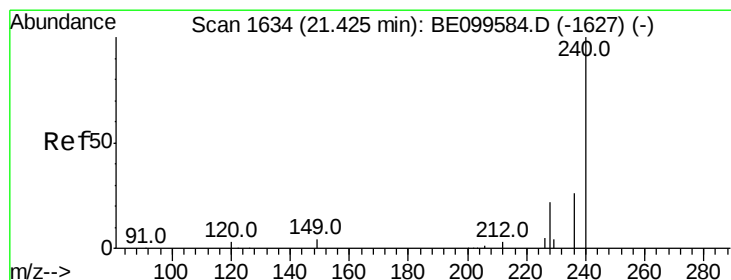
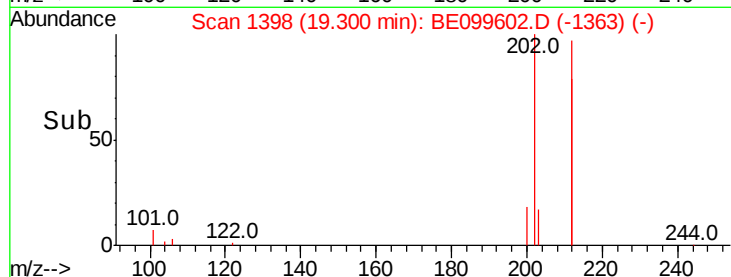
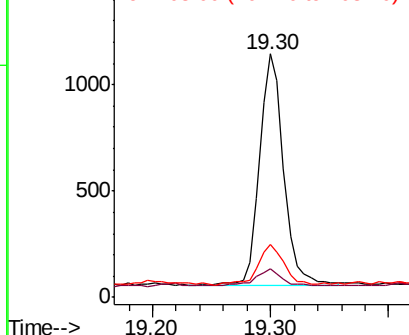
#26  
Fluoranthene  
Concen: 0.029 ng  
RT: 19.30 min Scan# 1398  
Delta R.T. -0.00 min  
Lab File: BE099602.D  
Acq: 10 May 2019 17:07

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:202 Resp: 1563  
Ion Ratio Lower Upper  
202 100  
101 8.5 5.4 8.2#  
203 18.8 13.7 20.5

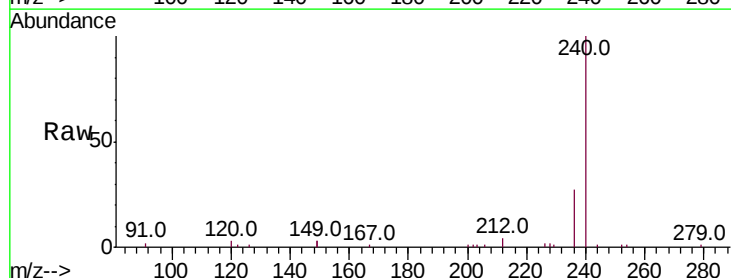


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E

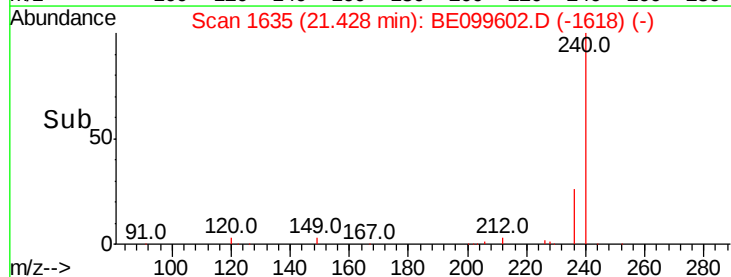
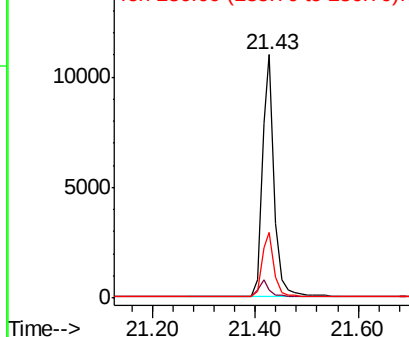


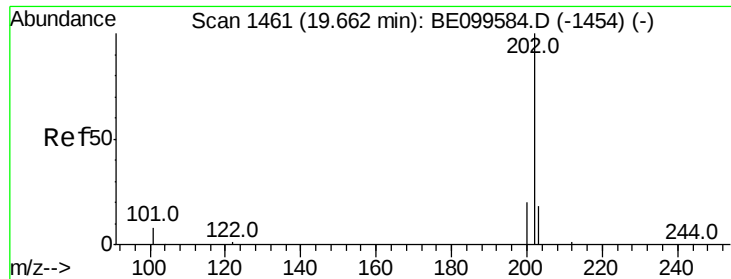
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.43 min Scan# 1635  
Delta R.T. 0.00 min  
Lab File: BE099602.D  
Acq: 10 May 2019 17:07

Tgt Ion:240 Resp: 17987  
Ion Ratio Lower Upper  
240 100  
120 3.4 3.2 4.8  
236 26.9 21.0 31.6



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

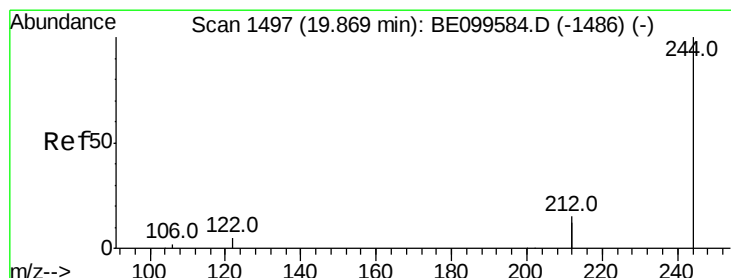
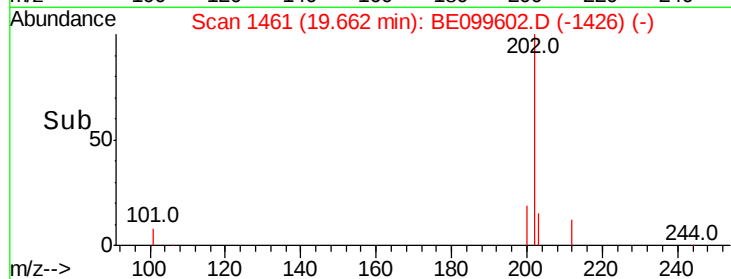
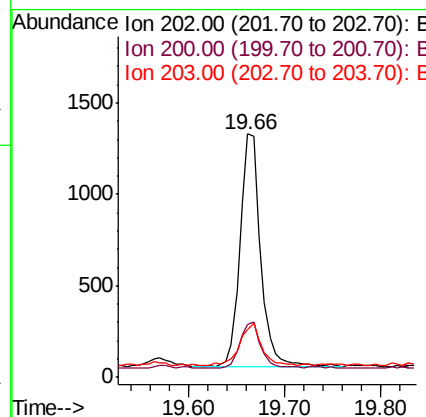
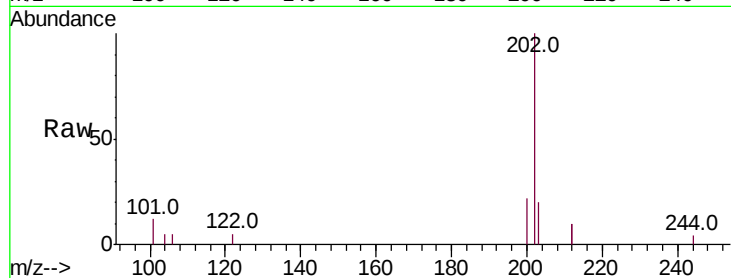




#28  
Pvrene  
Concen: 0.040 ng  
RT: 19.66 min Scan# 1461  
Delta R.T. -0.00 min  
Lab File: BE099602.D  
Acq: 10 May 2019 17:07

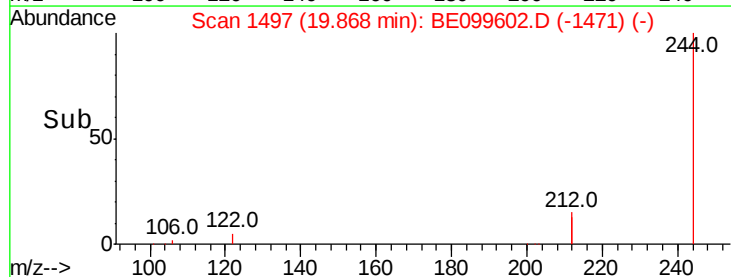
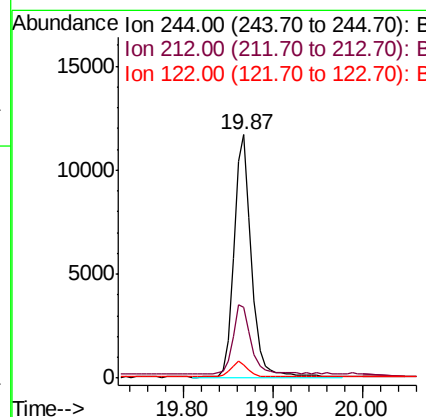
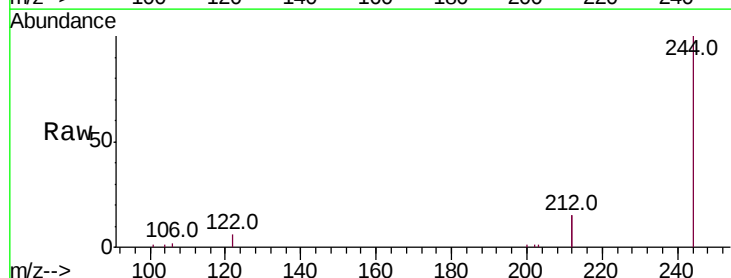
Instrument :  
BNA\_E  
ClientSampleId :

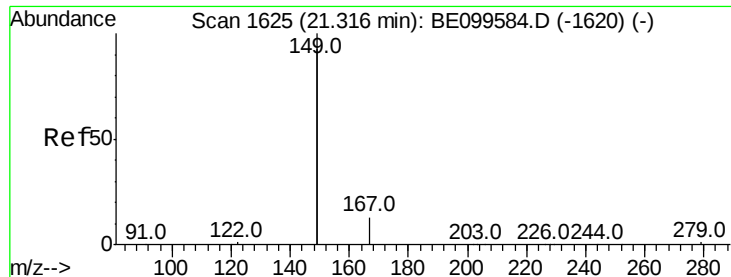
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.7  | 15.9  | 23.9  |
| 203     | 19.4  | 14.1  | 21.1  |



#29  
Terphenyl-d14  
Concen: 0.481 ng  
RT: 19.87 min Scan# 1497  
Delta R.T. -0.00 min  
Lab File: BE099602.D  
Acq: 10 May 2019 17:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 29.3  | 24.4  | 36.6  |
| 122     | 5.6   | 4.6   | 6.8   |





#32

Bis(2-ethylhexyl)phthalate

Concen: 1.655 ng

RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE099602.D

Acq: 10 May 2019 17:07

Instrument :

BNA\_E

ClientSampleId :

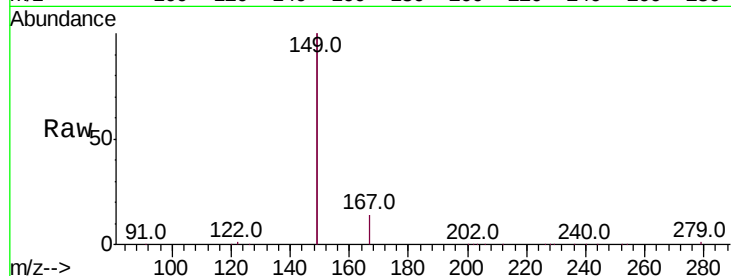
Tot Ion:149 Resp: 130654

Ion Ratio Lower Upper

149 100

167 7.4 6.0 9.0

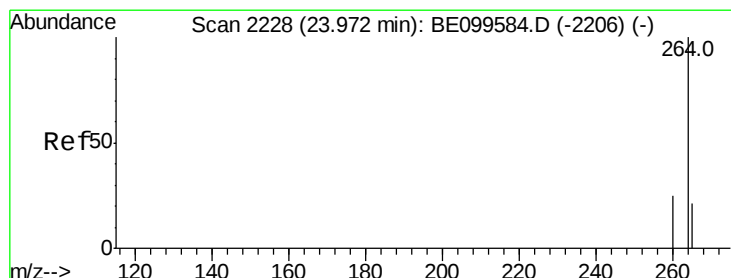
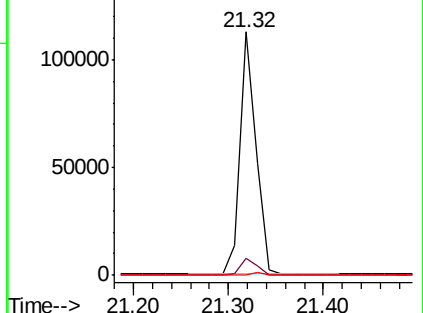
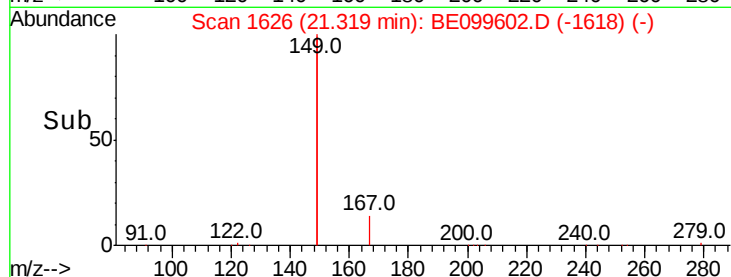
279 1.3 1.1 1.7



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.97 min Scan# 2228

Delta R.T. -0.00 min

Lab File: BE099602.D

Acq: 10 May 2019 17:07

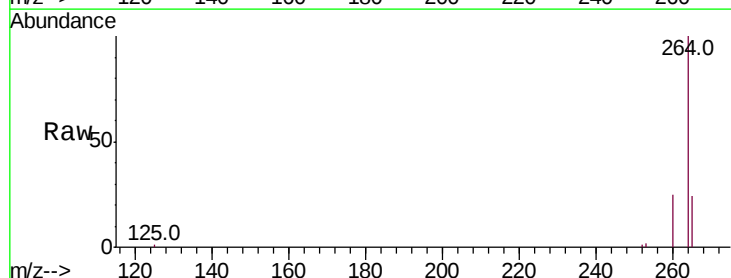
Tgt Ion:264 Resp: 20879

Ion Ratio Lower Upper

264 100

260 25.1 20.3 30.5

265 24.5 20.9 31.3



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

