

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050719\  
 Data File : BE099566.D  
 Acq On : 7 May 2019 15:27  
 Operator : JU/SJ  
 Sample : PB119482BS  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB119482BS

Manual Integrations  
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mohammad  
 5/8/2019 3:59:35 PM

Quant Time: May 07 16:06:08 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE050719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue May 07 14:10:11 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.84  | 152  | 2028     | 0.40 | ng    | 0.02     |
| 7) Naphthalene-d8         | 10.64 | 136  | 7031     | 0.40 | ng    | 0.01     |
| 13) Acenaphthene-d10      | 14.50 | 164  | 4729     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.25 | 188  | 13644    | 0.40 | ng    | 0.01     |
| 27) Chrysene-d12          | 21.43 | 240  | 19088    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.99 | 264  | 22576    | 0.40 | ng    | 0.01     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.40  | 112 | 2119  | 0.38 | ng | 0.00 |
| 5) Phenol-d6                | 7.00  | 99  | 2884  | 0.39 | ng | 0.02 |
| 8) Nitrobenzene-d5          | 9.00  | 82  | 2438  | 0.36 | ng | 0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.24 | 152 | 4409m | 0.36 | ng | 0.01 |
| 14) 2,4,6-Tribromophenol    | 16.00 | 330 | 1032  | 0.33 | ng | 0.01 |
| 15) 2-Fluorobiphenyl        | 13.13 | 172 | 6532  | 0.36 | ng | 0.01 |
| 25) Fluoranthene-d10        | 19.28 | 212 | 68888 | 0.37 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.87 | 244 | 14969 | 0.42 | ng | 0.00 |

|                                |       |     |       |       |        |      |
|--------------------------------|-------|-----|-------|-------|--------|------|
| Target Compounds               |       |     |       |       | Qvalue |      |
| 2) 1,4-Dioxane                 | 3.31  | 88  | 765   | 0.267 | ng     | # 27 |
| 3) n-Nitrosodimethylamine      | 3.64  | 42  | 695   | 0.367 | ng     | # 95 |
| 6) bis(2-Chloroethyl)ether     | 7.25  | 93  | 2139  | 0.347 | ng     | 97   |
| 9) Naphthalene                 | 10.69 | 128 | 26817 | 0.360 | ng     | 100  |
| 10) Hexachlorobutadiene        | 10.96 | 225 | 1852  | 0.342 | ng     | 97   |
| 12) 2-Methylnaphthalene        | 12.31 | 142 | 4537  | 0.359 | ng     | 94   |
| 16) Acenaphthylene             | 14.23 | 152 | 7756  | 0.340 | ng     | 99   |
| 17) Acenaphthene               | 14.57 | 154 | 4429  | 0.347 | ng     | 97   |
| 18) Fluorene                   | 15.54 | 166 | 6408  | 0.352 | ng     | 99   |
| 20) 4-Bromophenyl-phenylether  | 16.44 | 248 | 2690  | 0.347 | ng     | # 82 |
| 21) Hexachlorobenzene          | 16.55 | 284 | 2689  | 0.349 | ng     | 98   |
| 22) Pentachlorophenol          | 16.91 | 266 | 2018  | 0.636 | ng     | 94   |
| 23) Phenanthrene               | 17.30 | 178 | 12062 | 0.359 | ng     | 99   |
| 24) Anthracene                 | 17.38 | 178 | 11386 | 0.352 | ng     | 99   |
| 26) Fluoranthene               | 19.31 | 202 | 18738 | 0.362 | ng     | 99   |
| 28) Pyrene                     | 19.67 | 202 | 19564 | 0.383 | ng     | 99   |
| 30) Benzo(a)anthracene         | 21.42 | 228 | 23369 | 0.395 | ng     | 99   |
| 31) Chrysene                   | 21.46 | 228 | 23219 | 0.398 | ng     | 99   |
| 32) Bis(2-ethylhexyl)phthalate | 21.33 | 149 | 36232 | 0.387 | ng     | 99   |
| 33) Indeno(1,2,3-cd)pyrene     | 26.69 | 276 | 28169 | 0.406 | ng     | 99   |
| 35) Benzo(b)fluoranthene       | 23.20 | 252 | 22667 | 0.364 | ng     | 99   |
| 36) Benzo(k)fluoranthene       | 23.25 | 252 | 24406 | 0.398 | ng     | 99   |
| 37) Benzo(a)pyrene             | 23.87 | 252 | 22968 | 0.382 | ng     | 98   |
| 38) Dibenzo(a,h)anthracene     | 26.72 | 278 | 23185 | 0.373 | ng     | 98   |
| 39) Benzo(g,h,i)perylene       | 27.53 | 276 | 23745 | 0.382 | ng     | 100  |

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

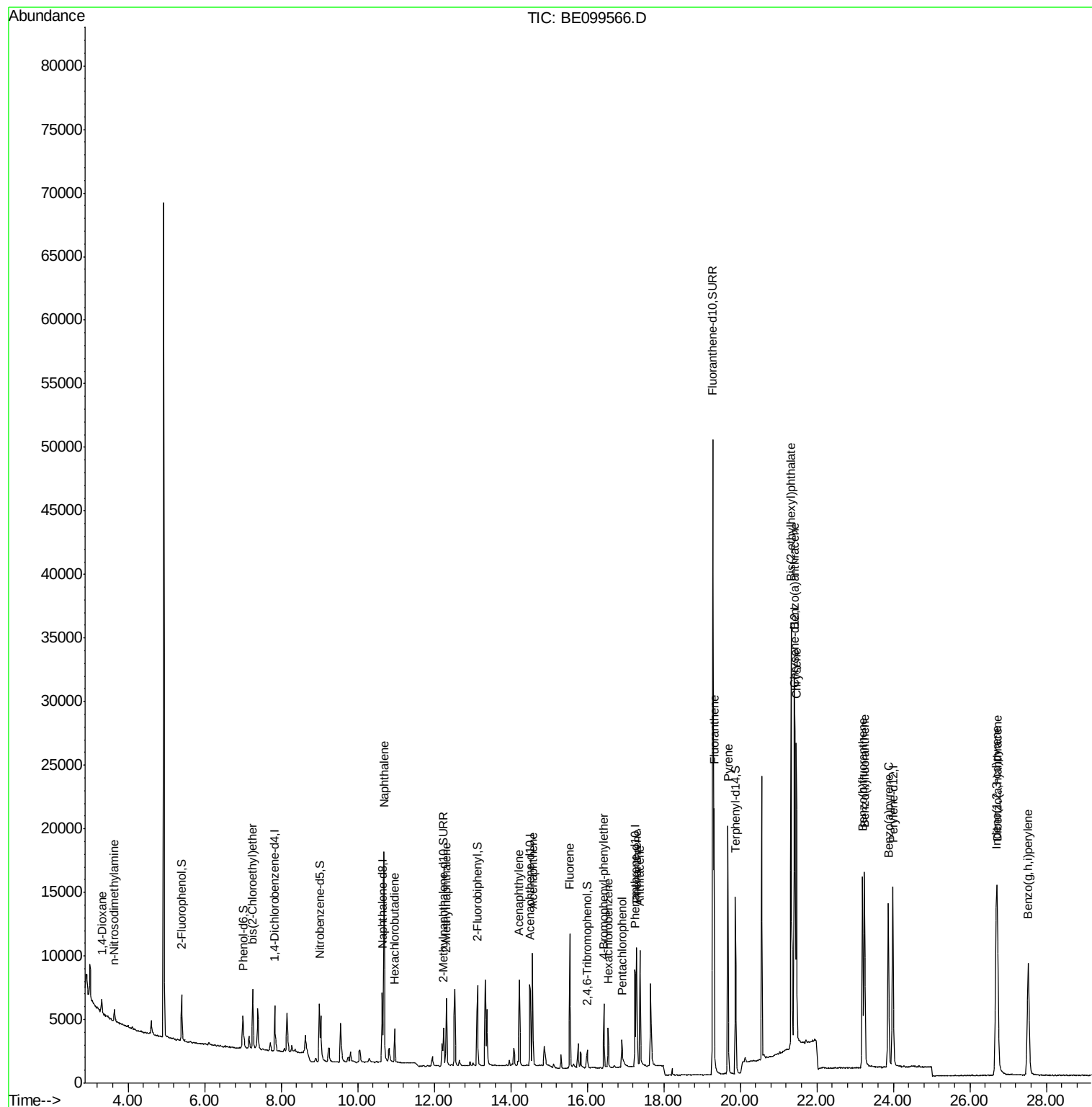
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE050719\  
Data File : BE099566.D  
Acq On : 7 May 2019 15:27  
Operator : JU/SJ  
Sample : PB119482BS  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

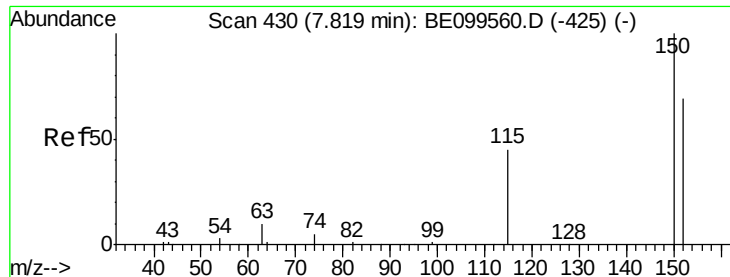
Instrument :  
BNA\_E  
ClientSampleId :  
PB119482BS

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Quant Time: May 07 16:06:08 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE050719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue May 07 14:10:11 2019  
Response via : Initial Calibration





#1

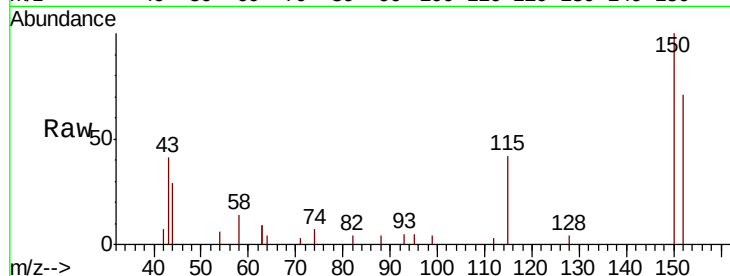
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.84 min Scan# 432  
Delta R.T. 0.02 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

Instrument :  
BNA\_E  
ClientSampleId :  
PB119482BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 141.3 | 113.8 | 170.6 |
| 115     | 59.9  | 54.2  | 81.2  |

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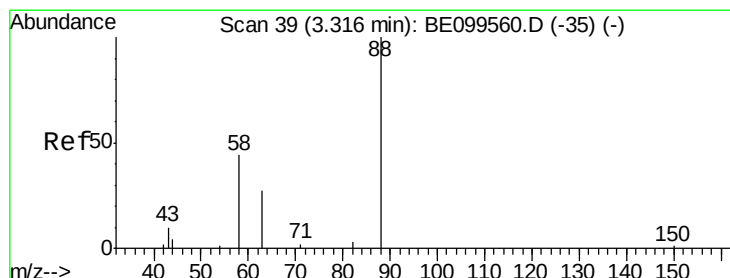
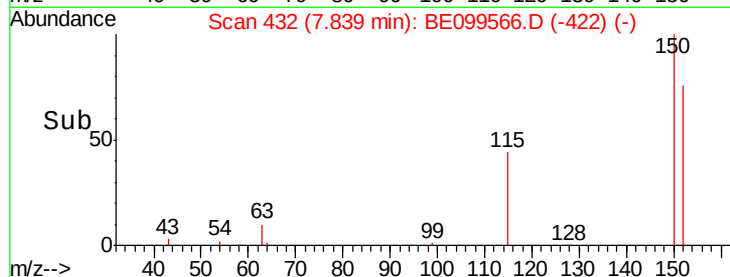
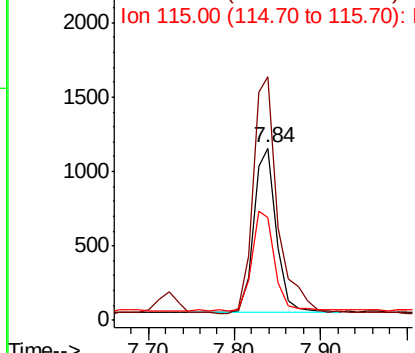


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

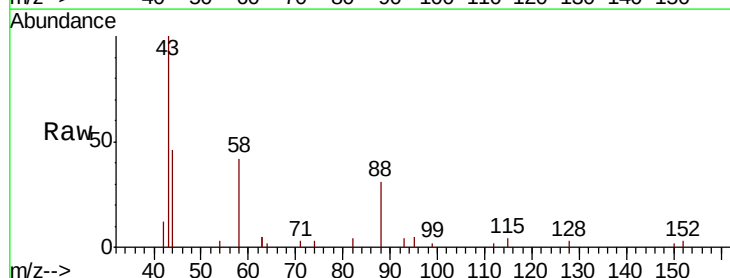
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane  
Concen: 0.267 ng  
RT: 3.31 min Scan# 39  
Delta R.T. -0.00 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 80.7  | 46.6  | 69.8# |
| 43      | 111.9 | 20.3  | 30.5# |

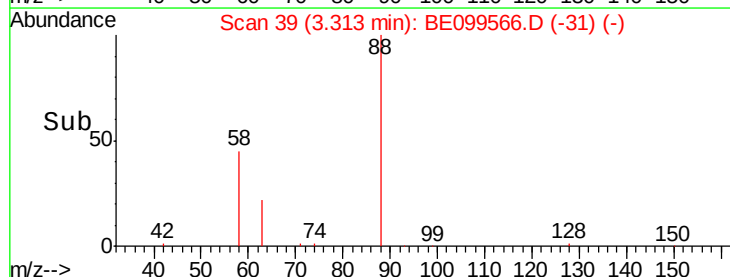
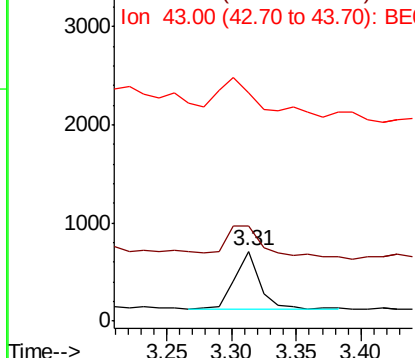


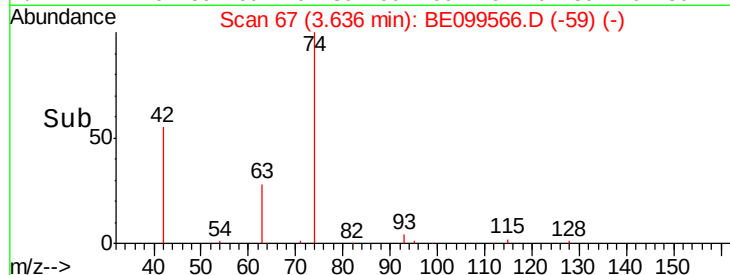
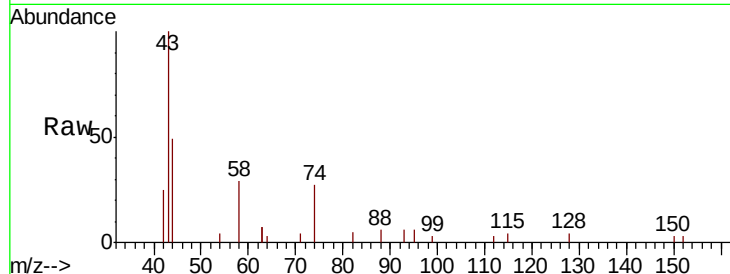
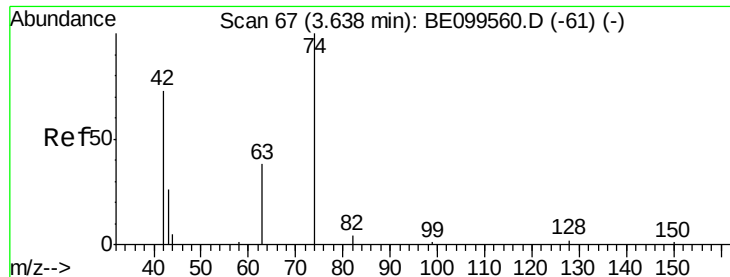
Abundance

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





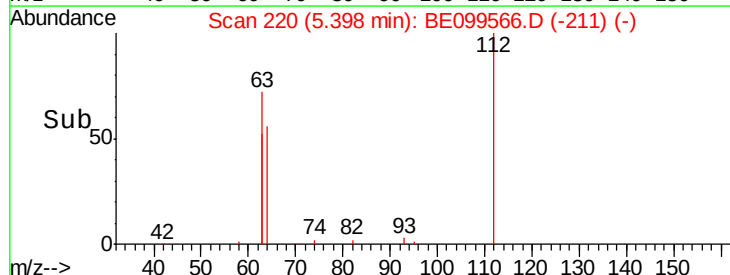
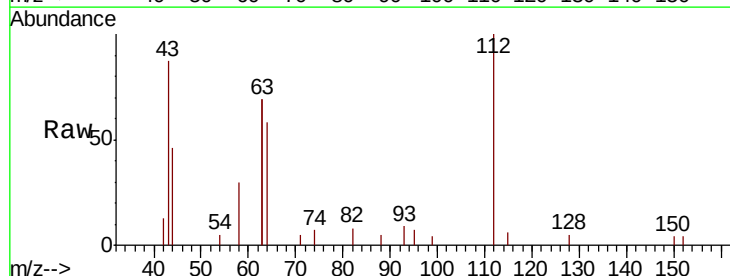
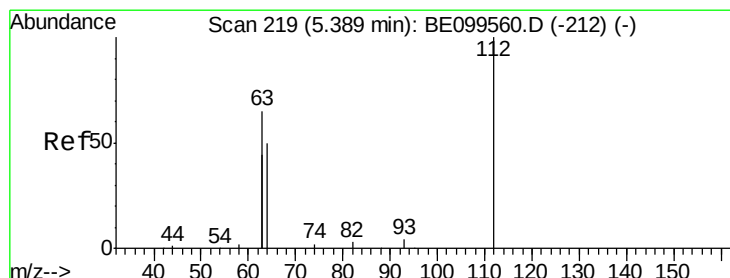
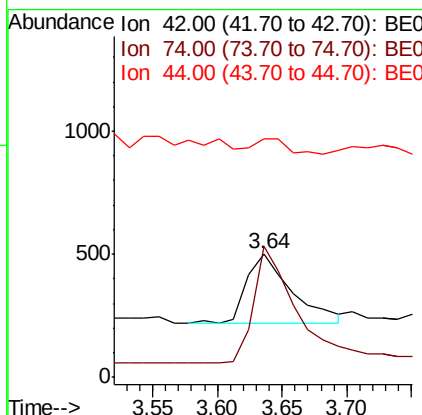
#3  
n-Nitrosodimethylamine  
Concen: 0.367 ng  
RT: 3.64 min Scan# 67  
Delta R.T. -0.00 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 695   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 158.6 | 121.3 | 181.9 |
| 44       | 14.8  | 0.0   | 0.0#  |

Instrument :  
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ClientSampleId :  
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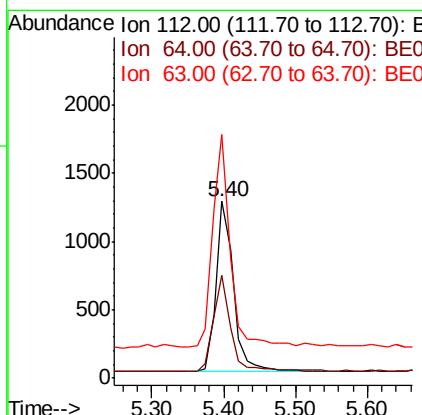
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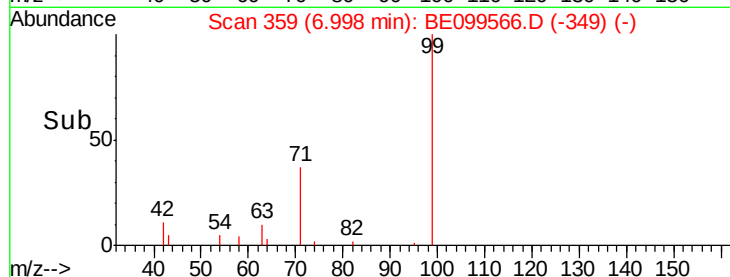
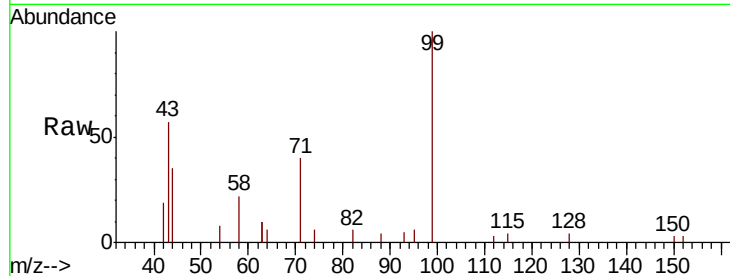
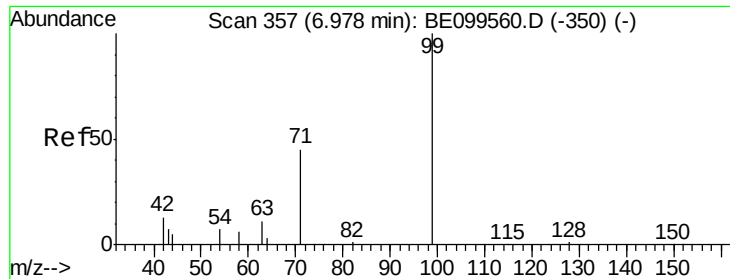
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#4  
2-Fluorophenol  
Concen: 0.377 ng  
RT: 5.40 min Scan# 220  
Delta R.T. 0.01 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 2119  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 55.7  | 46.3  | 69.5  |
| 63       | 122.7 | 99.6  | 149.4 |





#5

Phenol-d6

Concen: 0.390 ng

RT: 7.00 min Scan# 359

Delta R.T. 0.02 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 2884  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 15.2  | 13.4  | 20.0  |
| 71       | 39.3  | 34.2  | 51.2  |

Instrument :

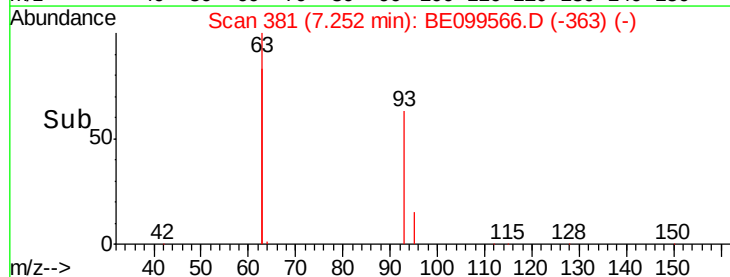
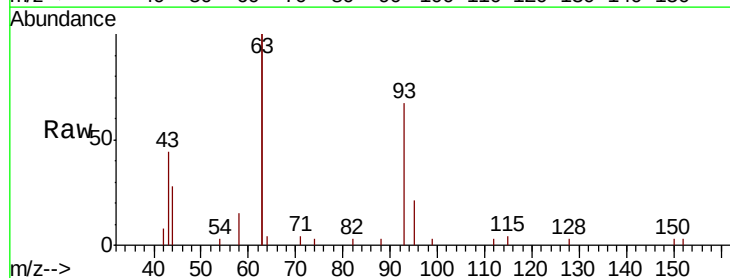
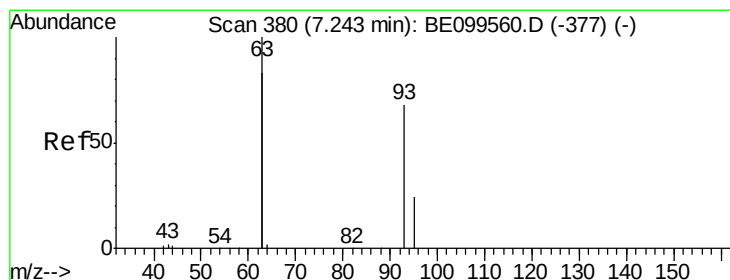
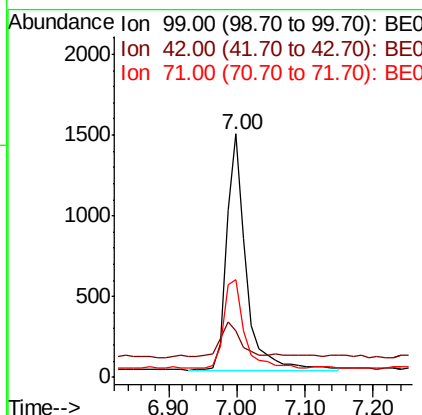
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#6

bis(2-Chloroethyl)ether

Concen: 0.347 ng

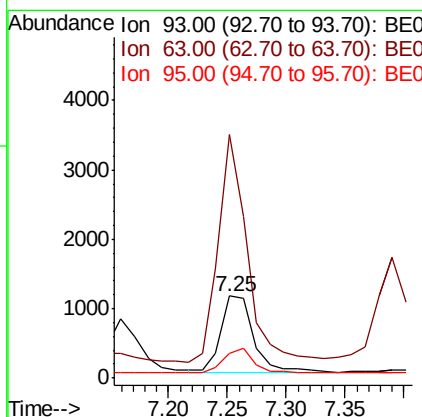
RT: 7.25 min Scan# 381

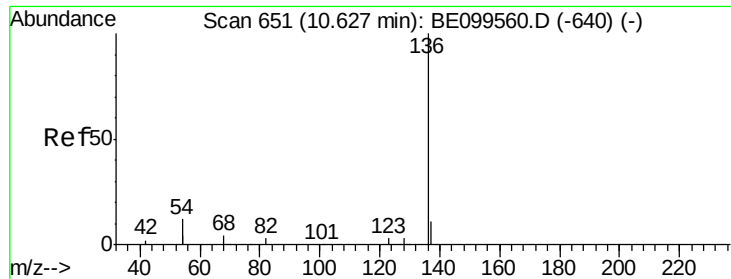
Delta R.T. 0.01 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2139  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 255.8 | 209.0 | 313.4 |
| 95       | 30.0  | 26.9  | 40.3  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.64 min Scan# 652

Delta R.T. 0.01 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

Instrument :

BNA\_E

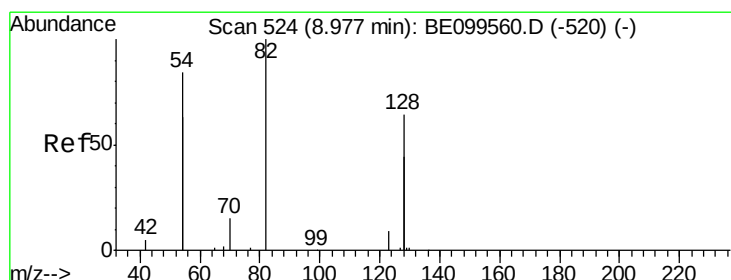
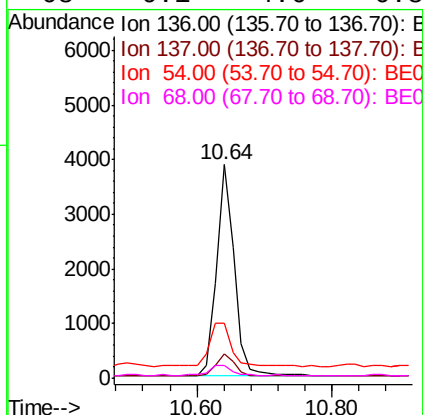
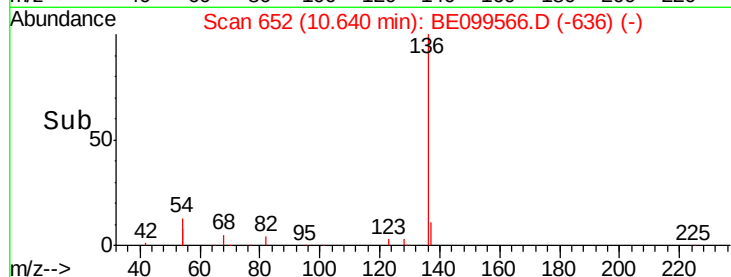
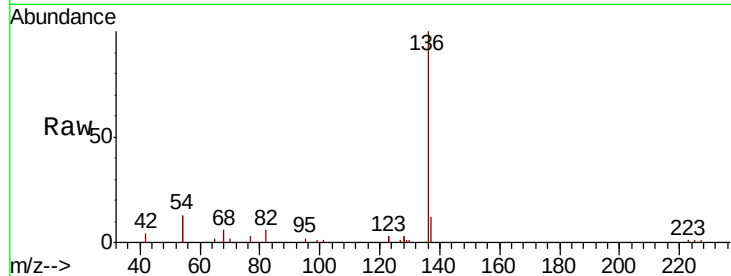
ClientSampleId :

PB119482BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 11.6  | 10.0  | 15.0  |
| 54      | 26.0  | 18.6  | 28.0  |
| 68      | 6.1   | 4.6   | 6.8   |

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#8

Nitrobenzene-d5

Concen: 0.360 ng

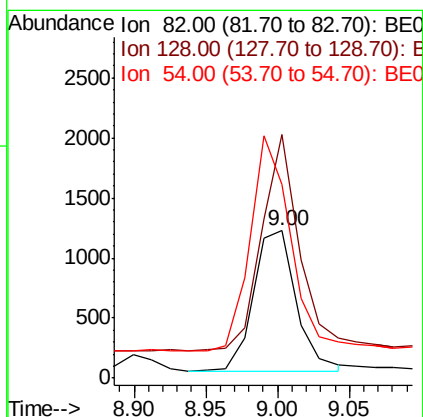
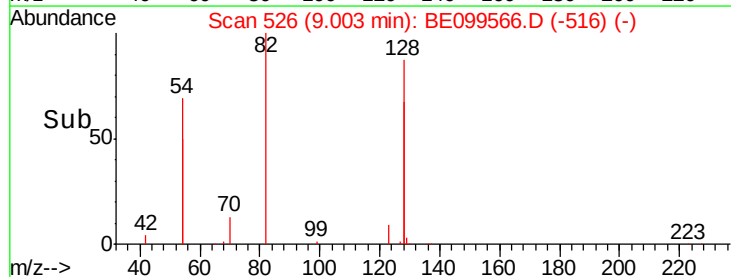
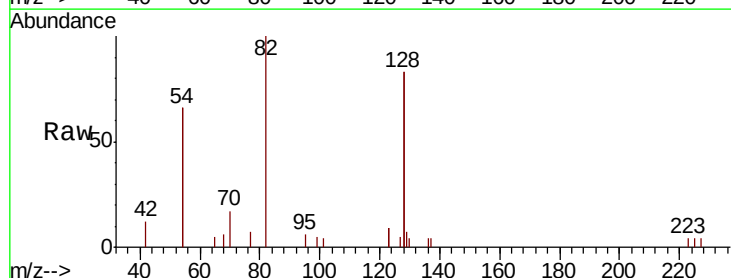
RT: 9.00 min Scan# 526

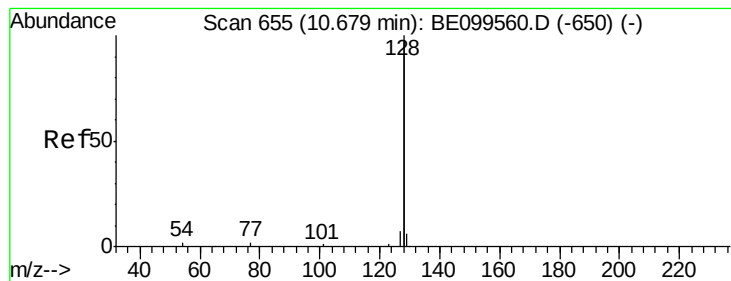
Delta R.T. 0.03 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 82      | 100   |       |        |
| 128     | 165.3 | 97.6  | 146.4# |
| 54      | 131.4 | 127.4 | 191.2  |





#9

Naphthalene

Concen: 0.360 ng

RT: 10.69 min Scan# 656

Delta R.T. 0.01 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

Instrument :

BNA\_E

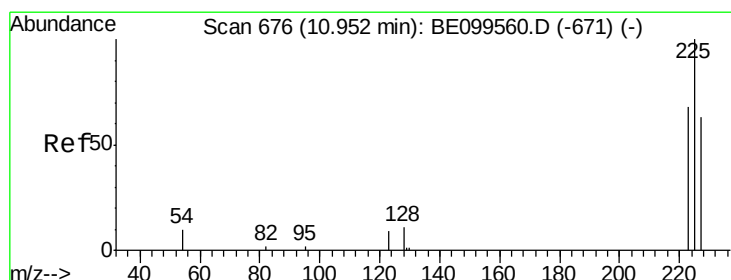
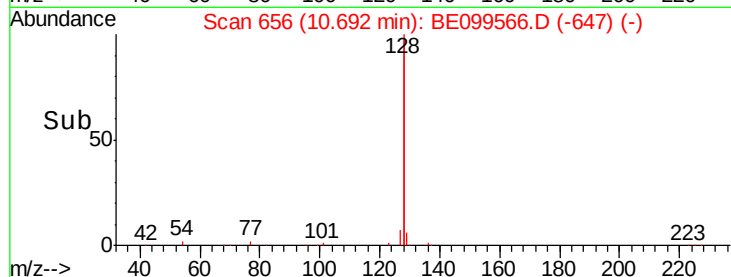
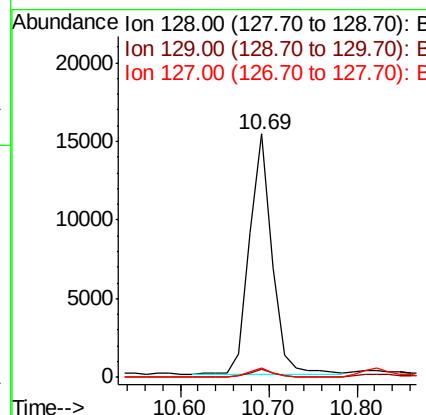
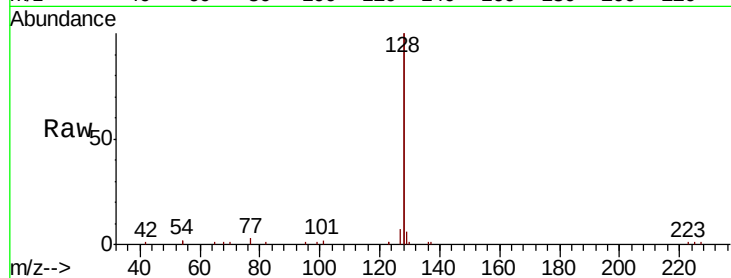
ClientSampleId :

PB119482BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 3.1   | 2.6   | 3.8   |
| 127     | 3.6   | 3.0   | 4.4   |

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#10

Hexachlorobutadiene

Concen: 0.342 ng

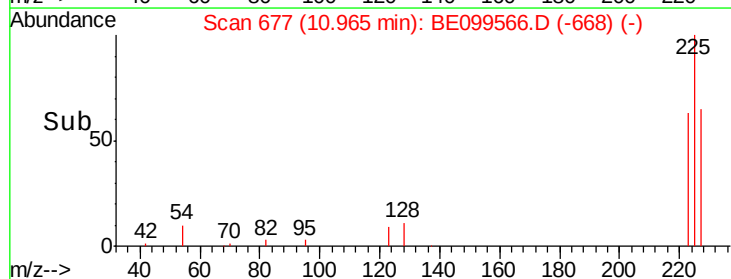
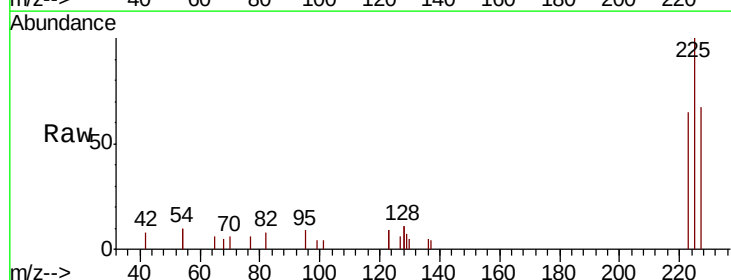
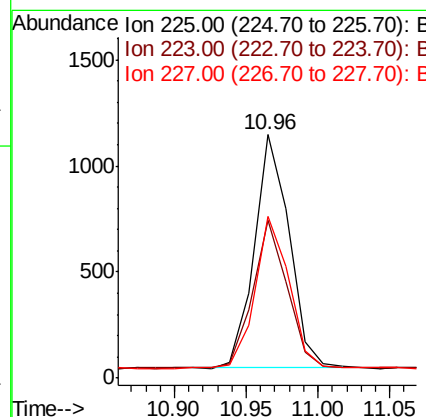
RT: 10.96 min Scan# 677

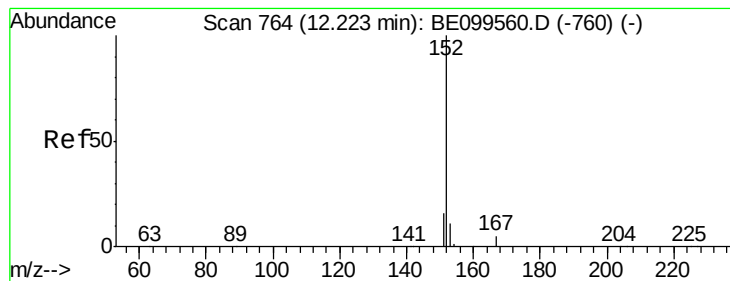
Delta R.T. 0.01 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 62.3  | 53.0  | 79.6  |
| 227     | 64.0  | 51.4  | 77.0  |





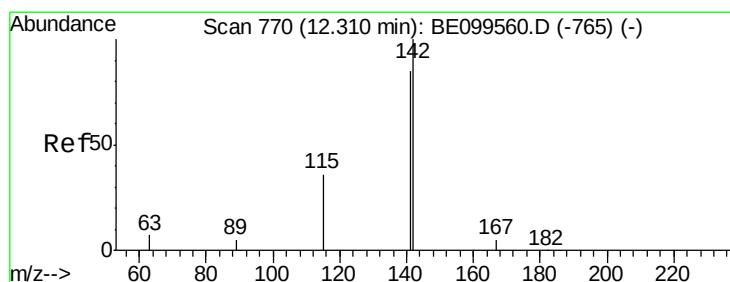
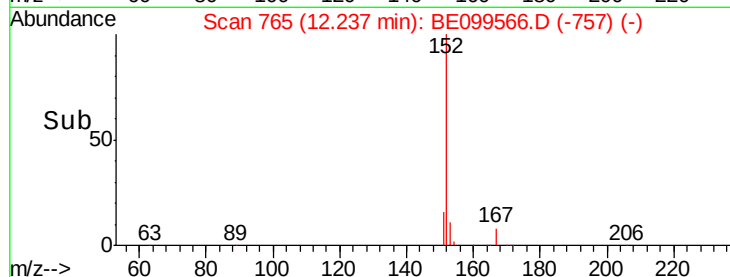
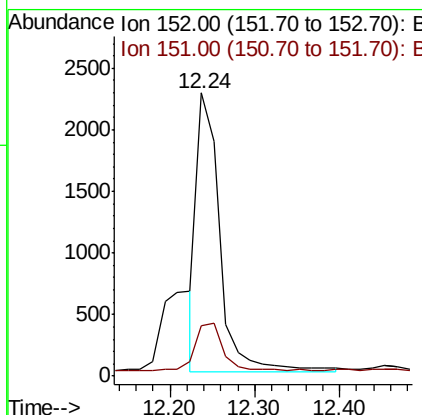
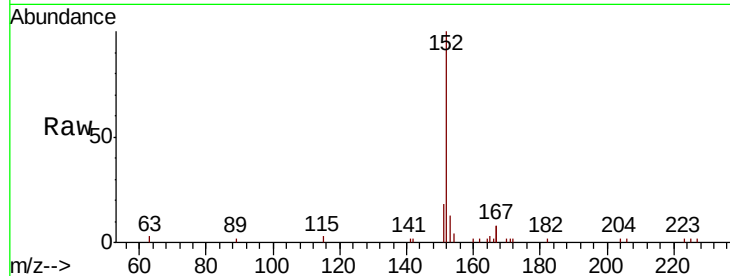
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.360 ng m  
 RT: 12.24 min Scan# 765  
 Delta R.T. 0.01 min  
 Lab File: BE099566.D  
 Acq: 7 May 2019 15:27

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB119482BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.6  | 15.8  | 23.8  |

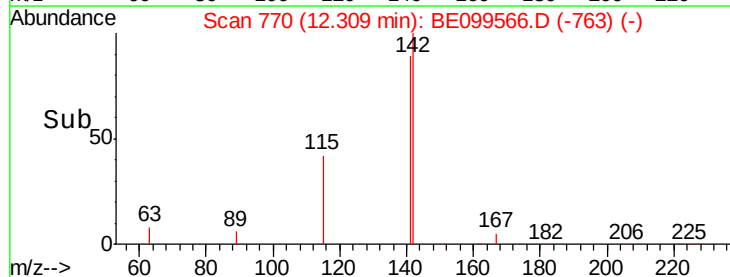
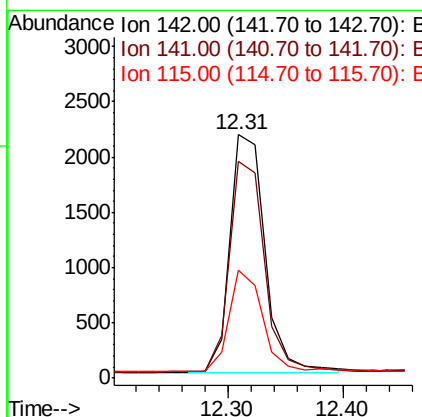
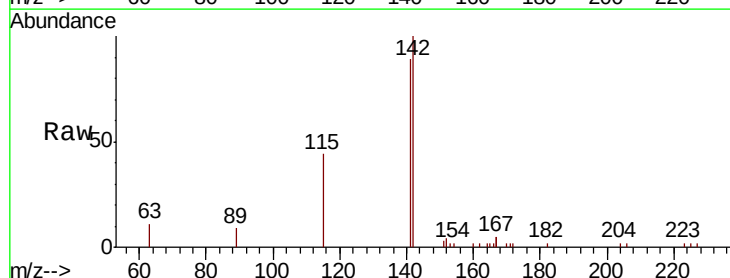
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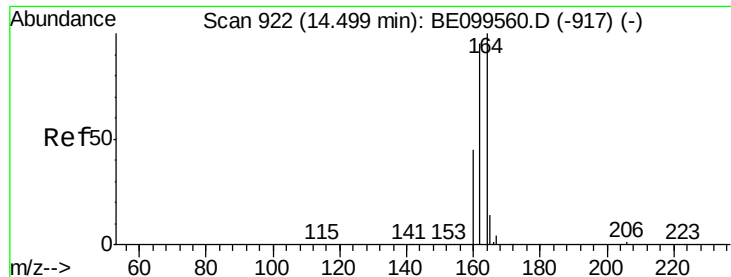


#12  
 2-Methylnaphthalene  
 Concen: 0.359 ng  
 RT: 12.31 min Scan# 770  
 Delta R.T. -0.00 min  
 Lab File: BE099566.D  
 Acq: 7 May 2019 15:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.2  | 68.1  | 102.1 |
| 115     | 44.1  | 30.8  | 46.2  |







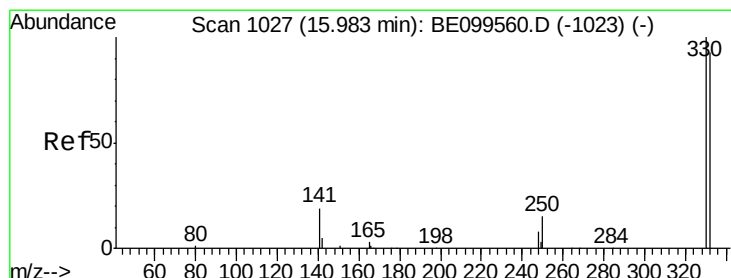
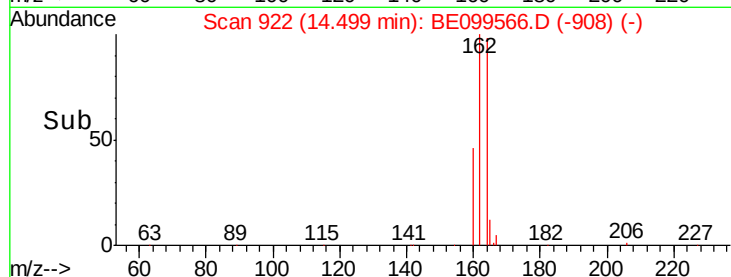
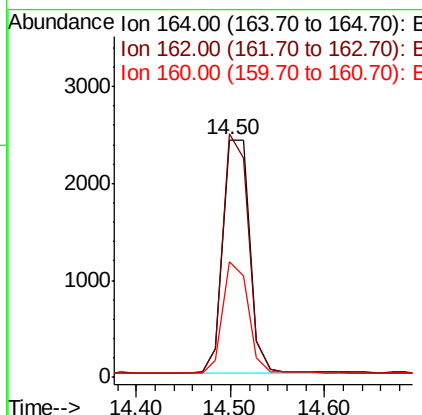
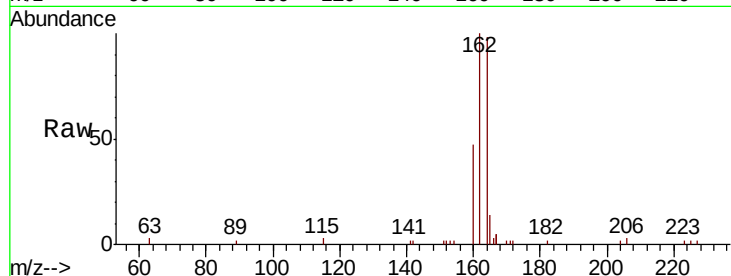
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.50 min Scan# 922  
Delta R.T. -0.00 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

Instrument :  
BNA\_E  
ClientSampleId :  
PB119482BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.4 | 76.4  | 114.6 |
| 160     | 48.5  | 36.6  | 55.0  |

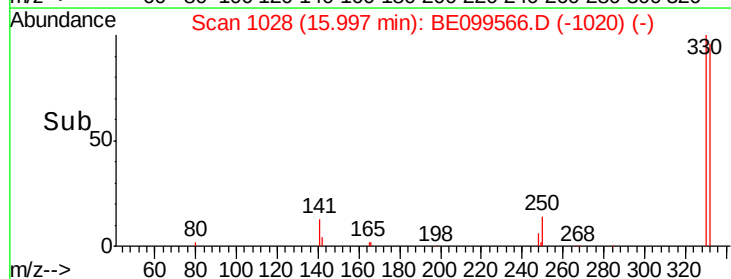
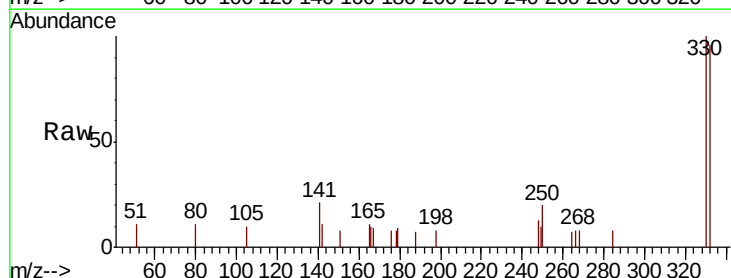
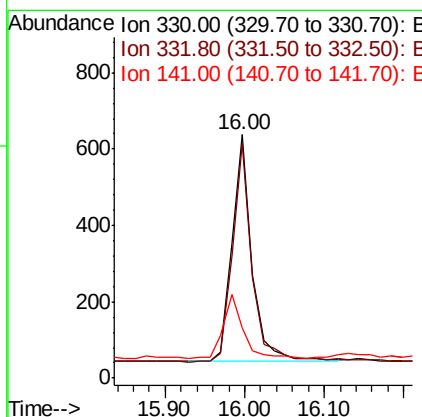
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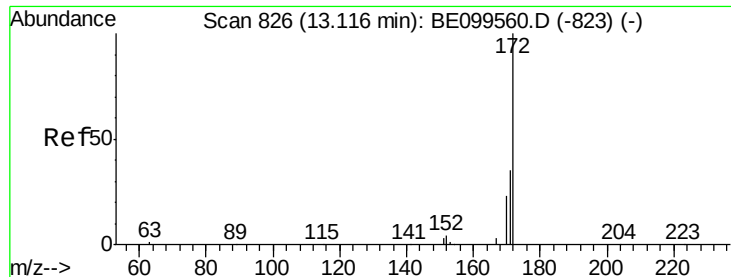
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#14  
2,4,6-Tribromophenol  
Concen: 0.328 ng  
RT: 16.00 min Scan# 1028  
Delta R.T. 0.01 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.0  | 77.7  | 116.5 |
| 141     | 28.0  | 26.1  | 39.1  |





#15

2-Fluorobiphenyl

Concen: 0.365 ng

RT: 13.13 min Scan# 827

Delta R.T. 0.01 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

Instrument :

BNA\_E

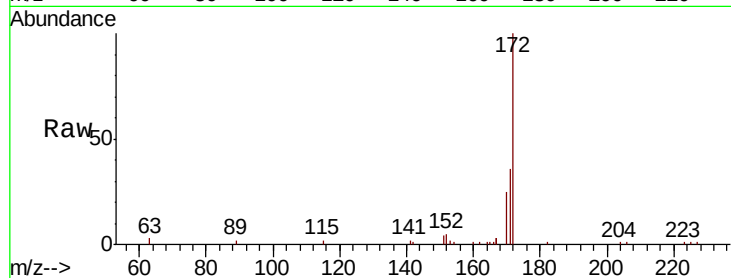
ClientSampleId :

PB119482BS

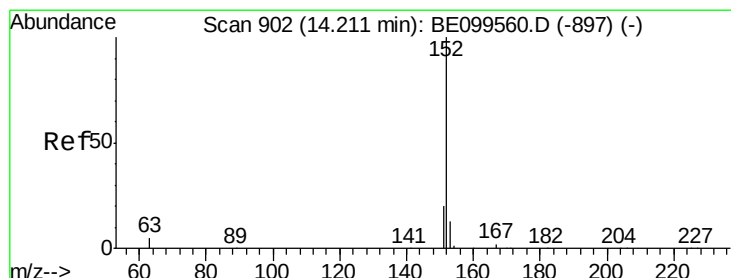
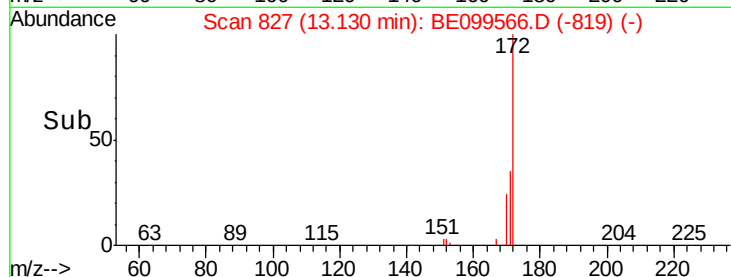
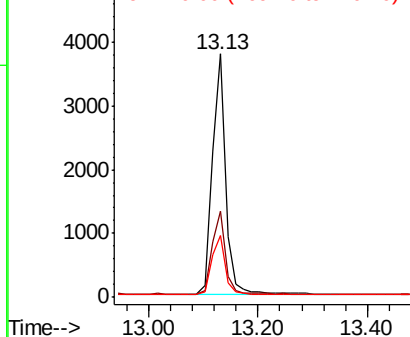
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 172   | Resp: | 6532 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 35.7  | 28.4  | 42.6 |
| 170       | 25.2  | 18.8  | 28.2 |

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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: 0.340 ng

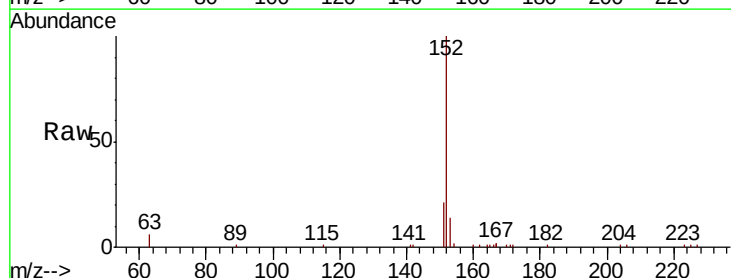
RT: 14.23 min Scan# 903

Delta R.T. 0.01 min

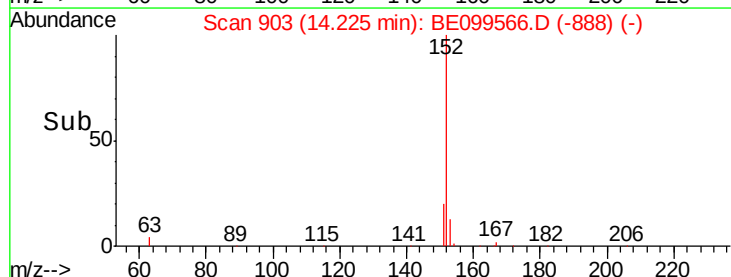
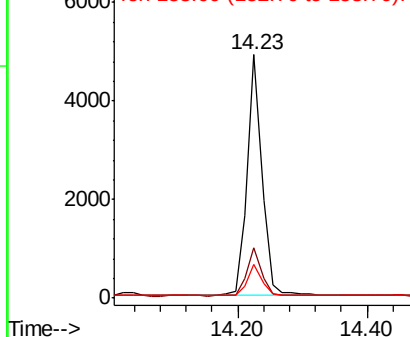
Lab File: BE099566.D

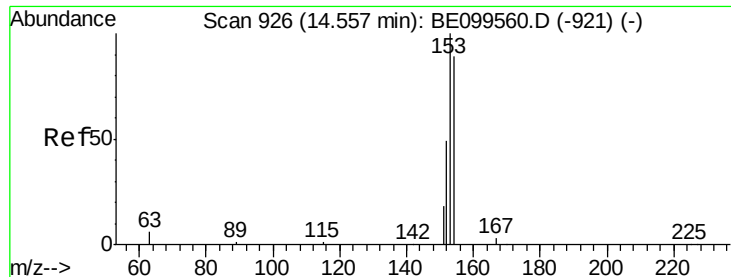
Acq: 7 May 2019 15:27

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 7756 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.0  | 15.8  | 23.8 |
| 153       | 12.6  | 10.5  | 15.7 |



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: 0.347 ng

RT: 14.57 min Scan# 927

Delta R.T. 0.01 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

Instrument :

BNA\_E

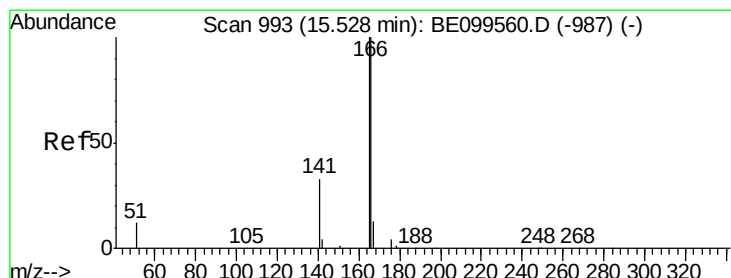
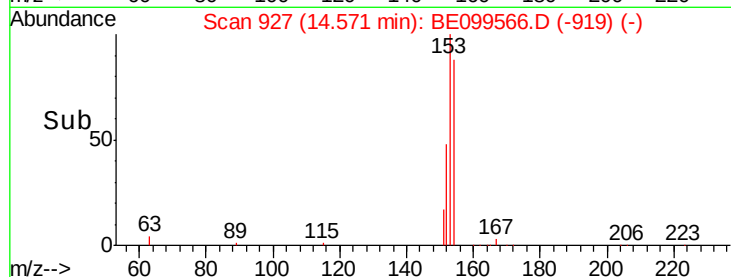
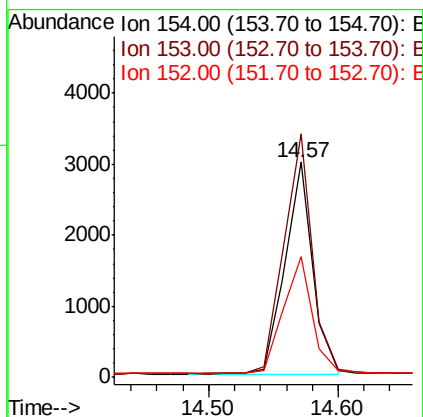
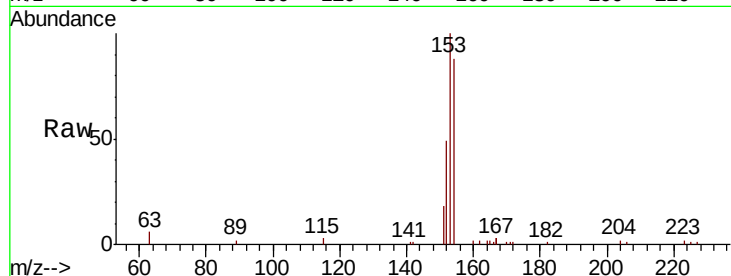
ClientSampleId :

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|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 154   | Resp: | 4429  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 115.7 | 89.7  | 134.5 |
| 152      | 56.6  | 43.9  | 65.9  |

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#18

Fluorene

Concen: 0.352 ng

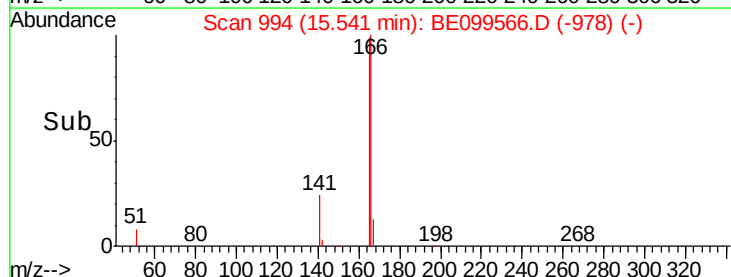
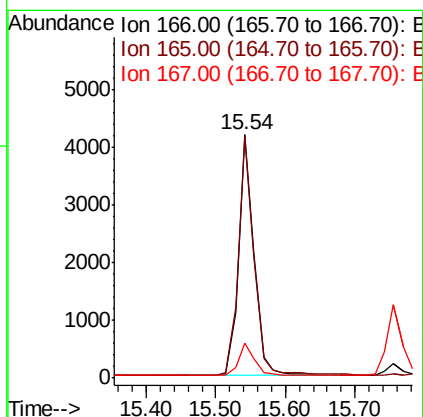
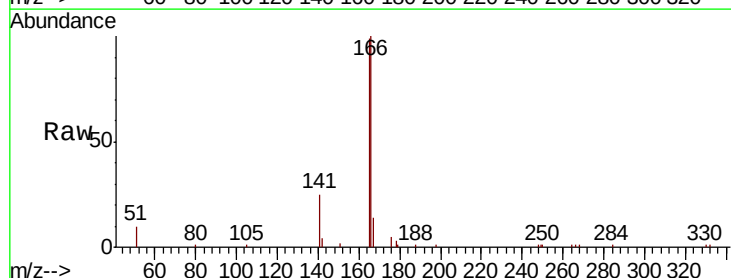
RT: 15.54 min Scan# 994

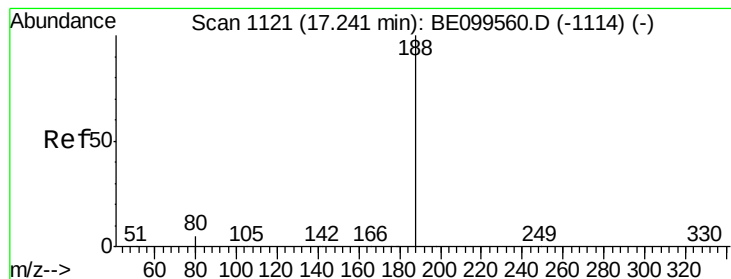
Delta R.T. 0.01 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 6408  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 99.7  | 79.0  | 118.6 |
| 167      | 13.2  | 11.5  | 17.3  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.25 min Scan# 1122

Delta R.T. 0.01 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

Instrument :

BNA\_E

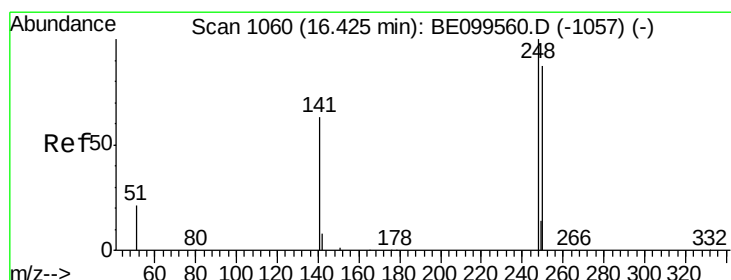
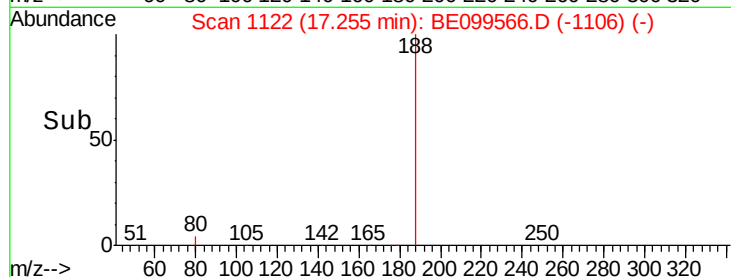
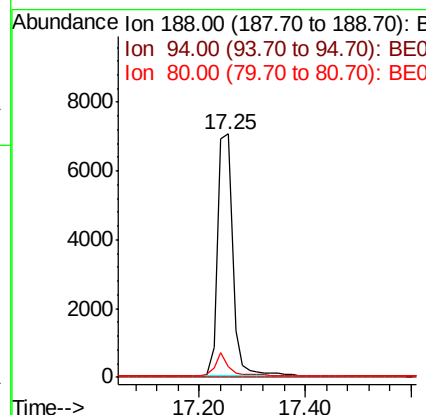
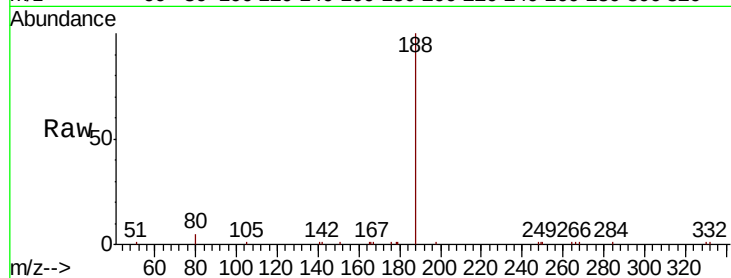
ClientSampleId :

PB119482BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 13644 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 0.0   | 0.0   | 0.0   |
| 80        | 4.6   | 4.6   | 7.0#  |

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#20

4-Bromophenyl-phenylether

Concen: 0.347 ng

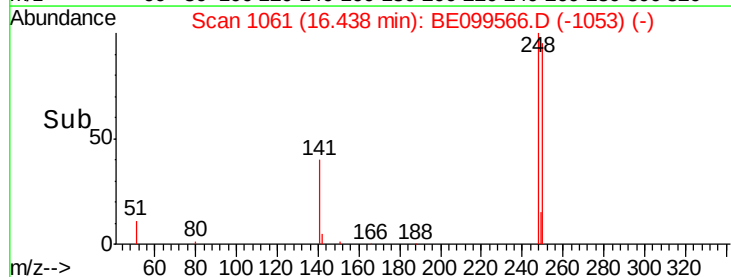
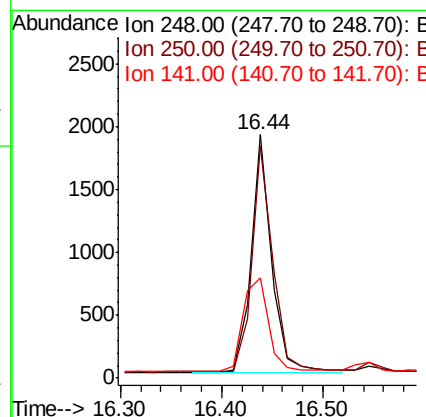
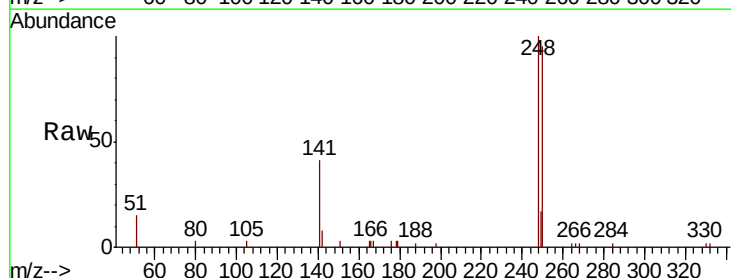
RT: 16.44 min Scan# 1061

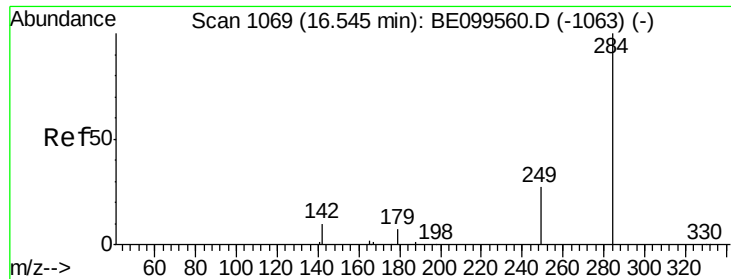
Delta R.T. 0.01 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 2690  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 95.3  | 70.0  | 105.0 |
| 141       | 41.3  | 51.8  | 77.8# |





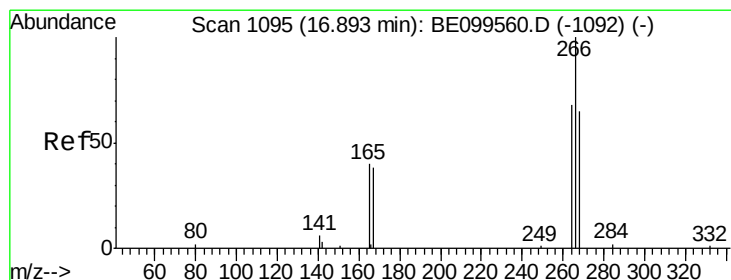
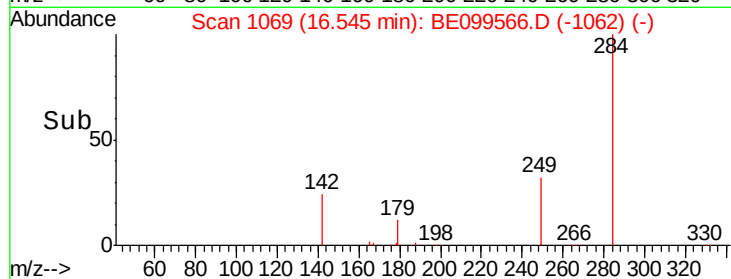
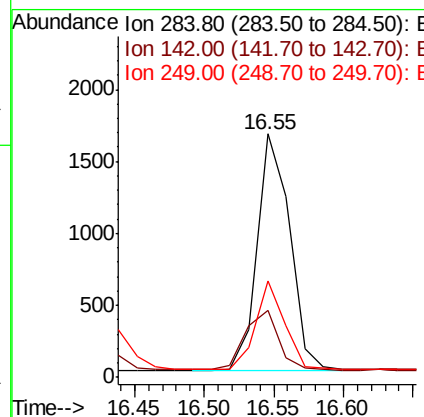
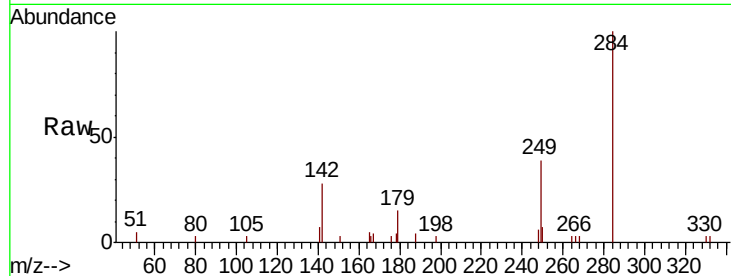
#21  
Hexachlorobenzene  
Concen: 0.349 ng  
RT: 16.55 min Scan# 1069  
Delta R.T. 0.00 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

Instrument :  
BNA\_E  
ClientSampleId :  
PB119482BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 284   | Resp: | 2689 |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 26.0  | 19.5  | 29.3 |
| 249       | 33.0  | 26.2  | 39.2 |

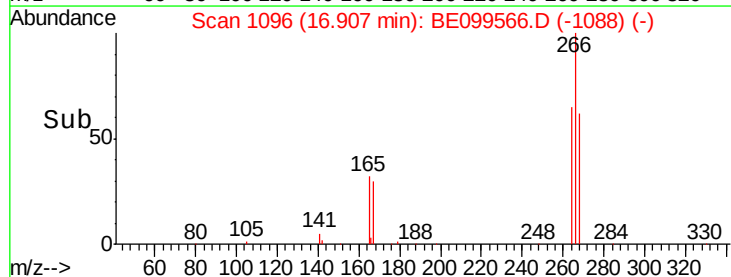
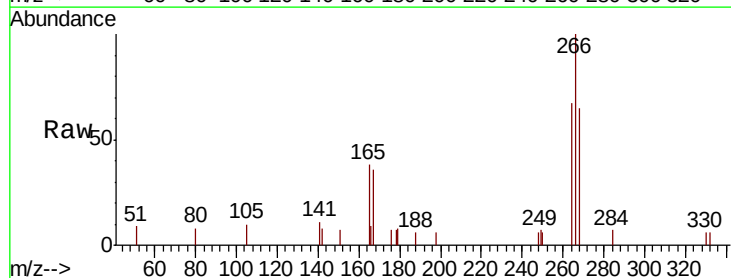
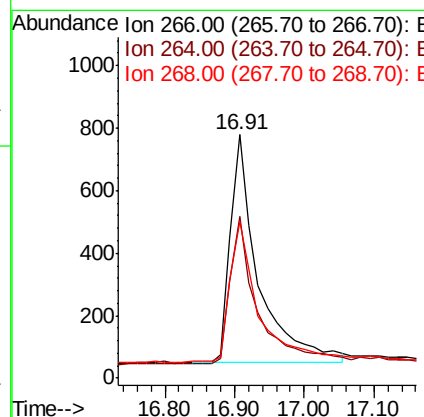
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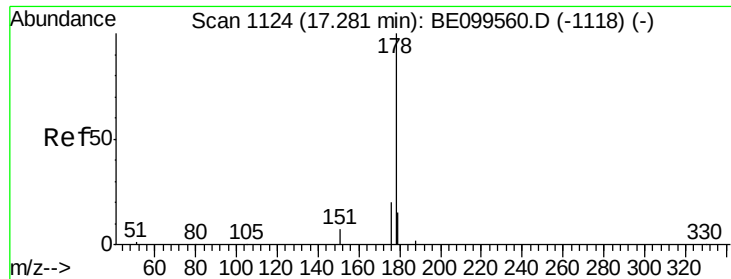
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#22  
Pentachlorophenol  
Concen: 0.636 ng  
RT: 16.91 min Scan# 1096  
Delta R.T. 0.01 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 2018 |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 66.6  | 56.6  | 84.8 |
| 268       | 64.6  | 55.8  | 83.8 |





#23

Phenanthrene

Concen: 0.359 ng

RT: 17.30 min Scan# 1125

Delta R.T. 0.01 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

Instrument :

BNA\_E

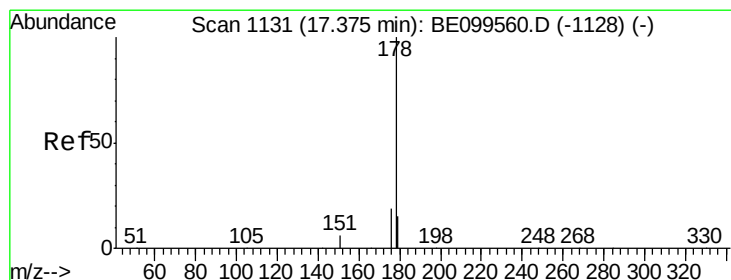
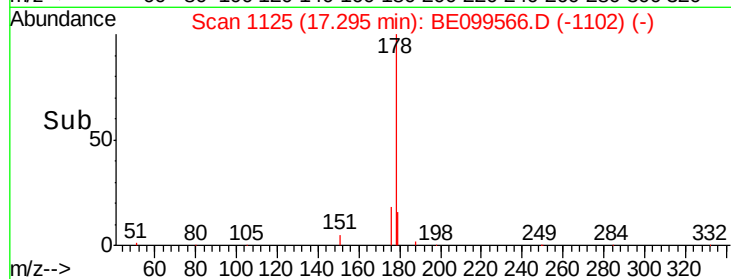
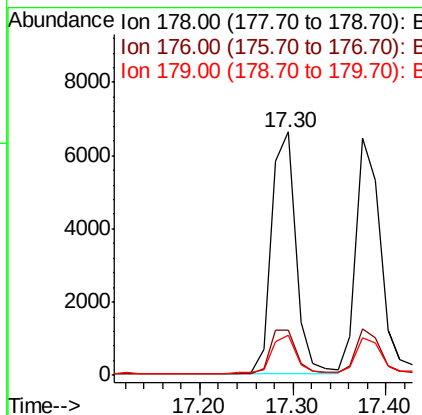
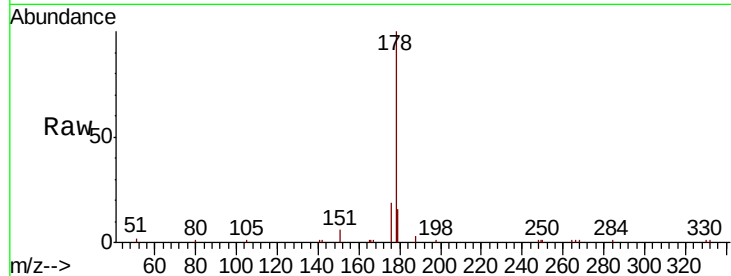
ClientSampleId :

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|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 12062     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 19.1  | 15.8 23.6 |
| 179         | 15.8  | 12.5 18.7 |

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#24

Anthracene

Concen: 0.352 ng

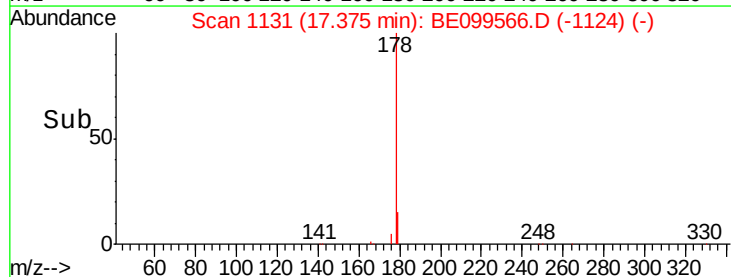
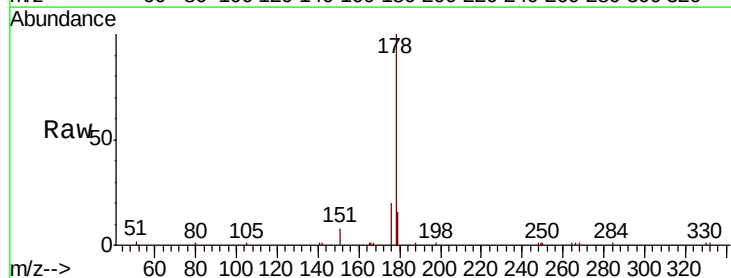
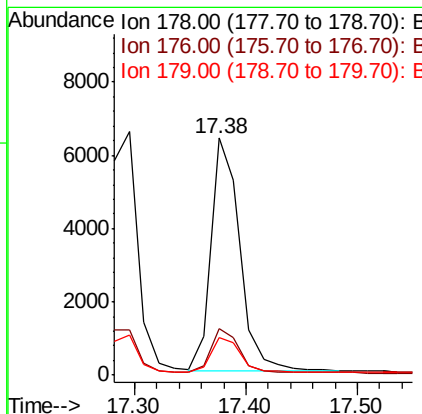
RT: 17.38 min Scan# 1131

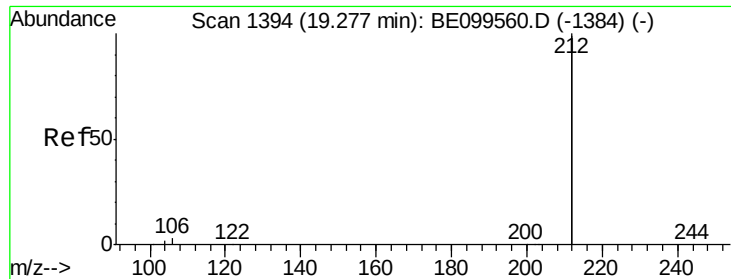
Delta R.T. 0.00 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 11386     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 18.8  | 15.3 22.9 |
| 179         | 15.4  | 12.2 18.4 |





#25

Fluoranthene-d10

Concen: 0.375 ng

RT: 19.28 min Scan# 1395

Delta R.T. 0.01 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

Instrument :

BNA\_E

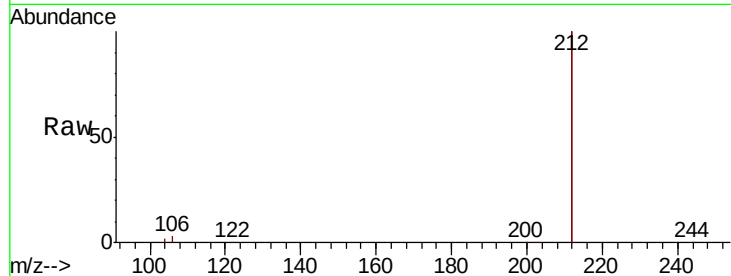
ClientSampleId :

PB119482BS

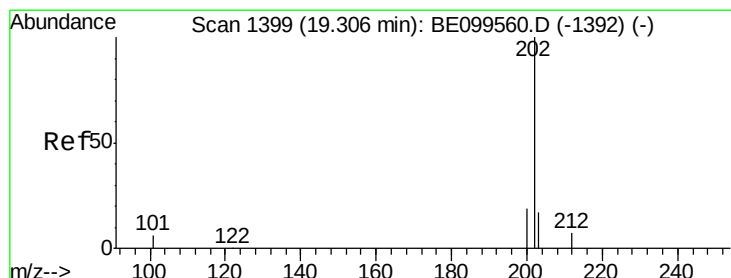
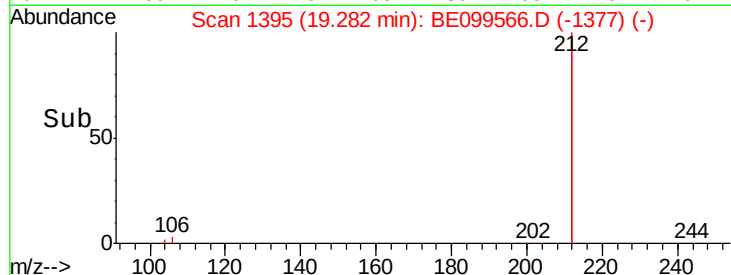
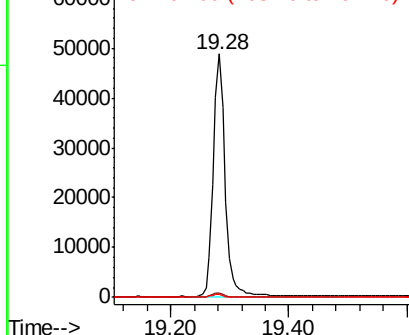
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 212   | Resp: | 68888 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 1.7   | 1.4   | 2.0   |
| 104       | 1.0   | 0.8   | 1.2   |

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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: 0.362 ng

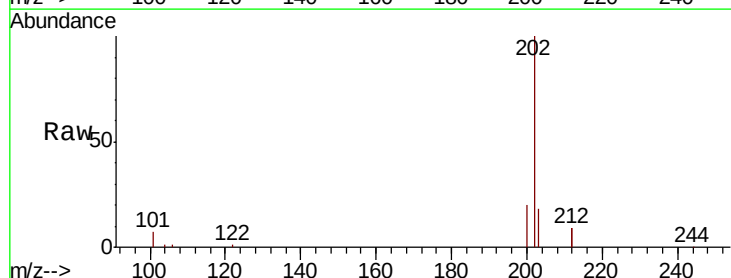
RT: 19.31 min Scan# 1400

Delta R.T. 0.01 min

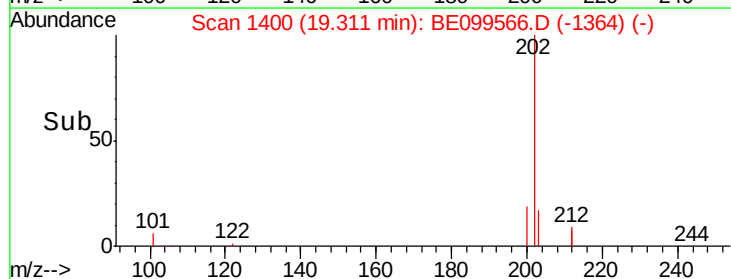
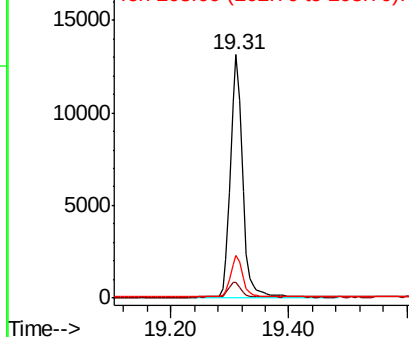
Lab File: BE099566.D

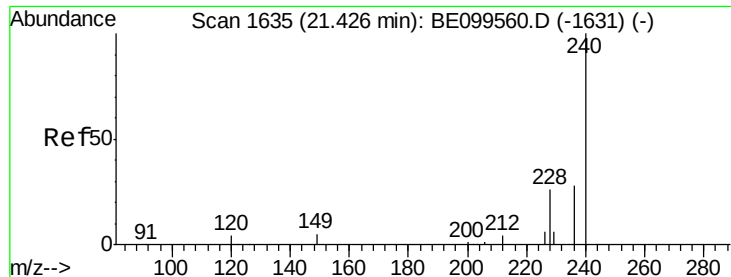
Acq: 7 May 2019 15:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 18738 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 6.4   | 5.3   | 7.9   |
| 203       | 17.1  | 13.4  | 20.2  |



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: BE099566.D

Acq: 7 May 2019 15:27

Instrument :

BNA\_E

ClientSampleId :

PB119482BS

Tot Ion:240 Resp: 19088

Ion Ratio Lower Upper

240 100

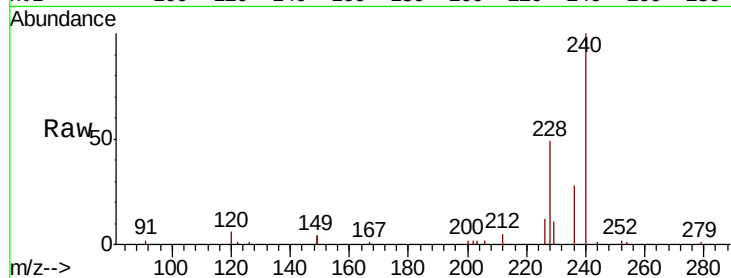
120 6.5 3.8 5.6#

236 28.0 22.5 33.7

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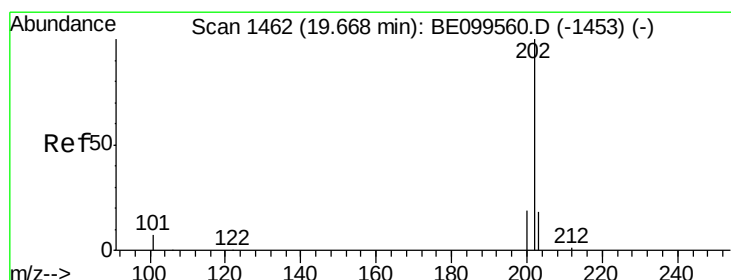
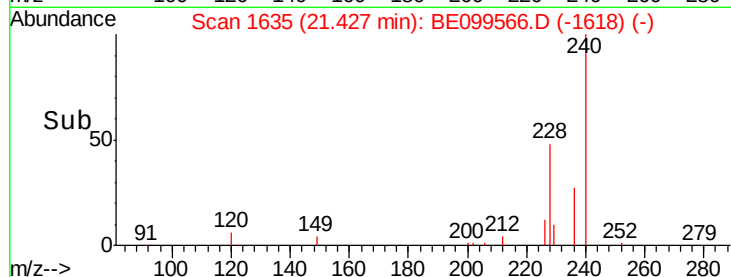
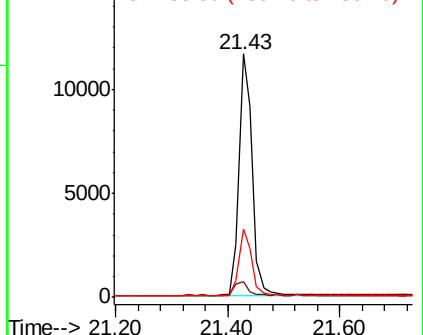


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.383 ng

RT: 19.67 min Scan# 1463

Delta R.T. 0.01 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

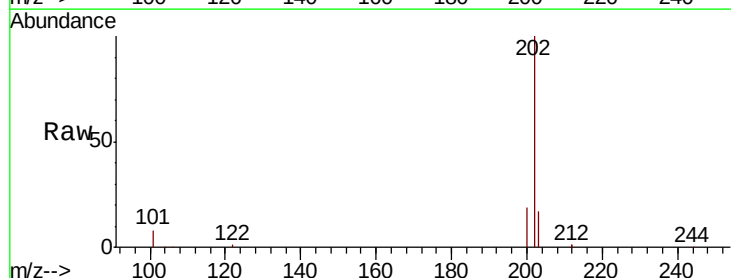
Tgt Ion:202 Resp: 19564

Ion Ratio Lower Upper

202 100

200 19.4 15.8 23.6

203 17.9 14.1 21.1

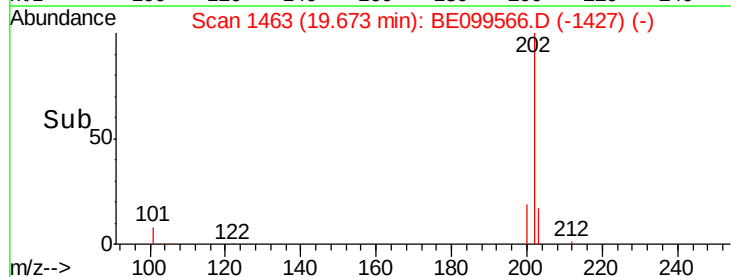
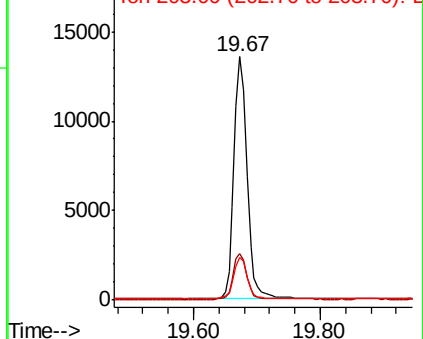


Abundance

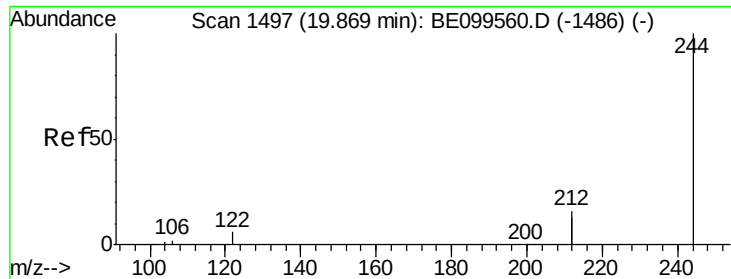
Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E







#29

Terphenyl-d14

Concen: 0.423 ng

RT: 19.87 min Scan# 1498

Delta R.T. 0.01 min

Lab File: BE099566.D

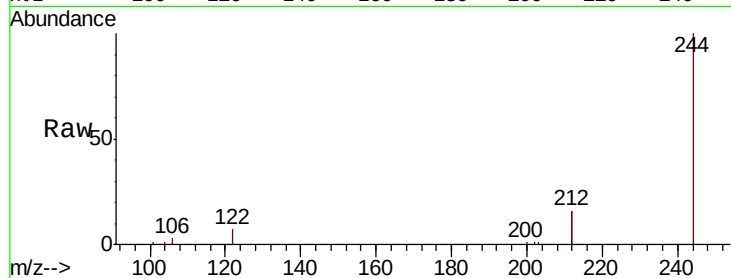
Acq: 7 May 2019 15:27

Instrument :

BNA\_E

ClientSampleId :

PB119482BS



Tot Ion:244 Resp: 14969

Ion Ratio Lower Upper

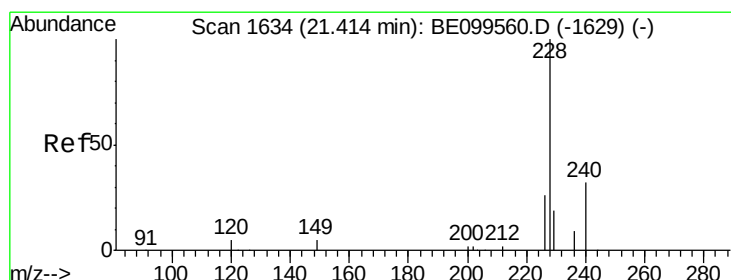
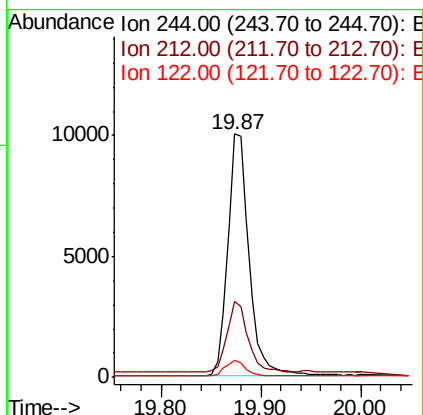
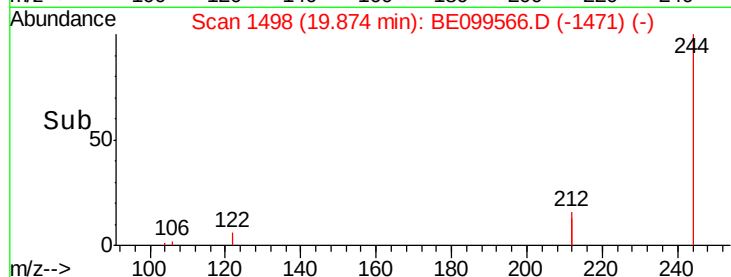
244 100

212 31.2 24.6 37.0

122 6.8 5.0 7.6

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#30

Benzo(a)anthracene

Concen: 0.395 ng

RT: 21.42 min Scan# 1634

Delta R.T. 0.00 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

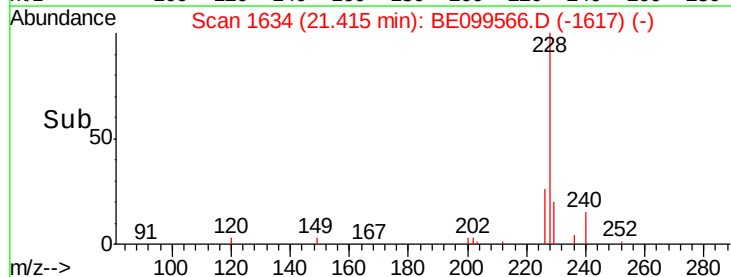
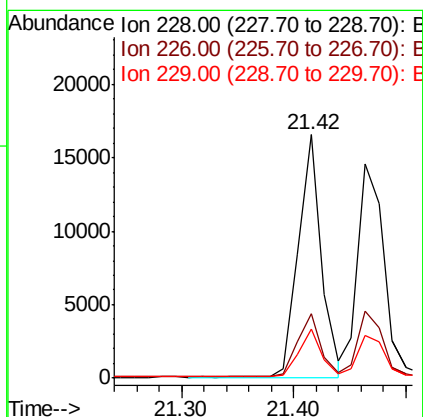
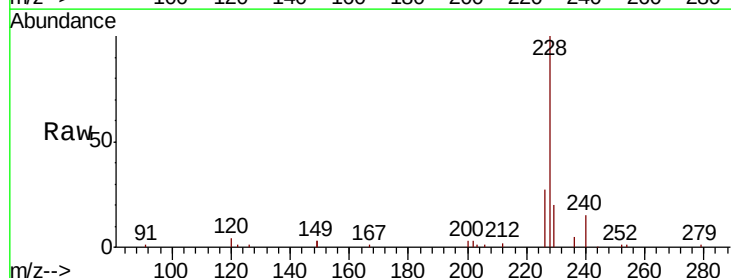
Tgt Ion:228 Resp: 23369

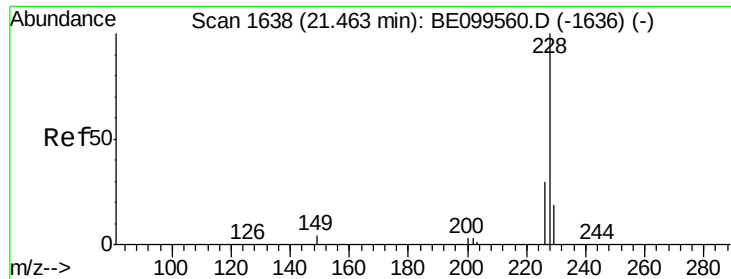
Ion Ratio Lower Upper

228 100

226 26.7 20.9 31.3

229 20.2 16.1 24.1





#31

Chrysene

Concen: 0.398 ng

RT: 21.46 min Scan# 1638

Delta R.T. 0.00 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

Instrument :

BNA\_E

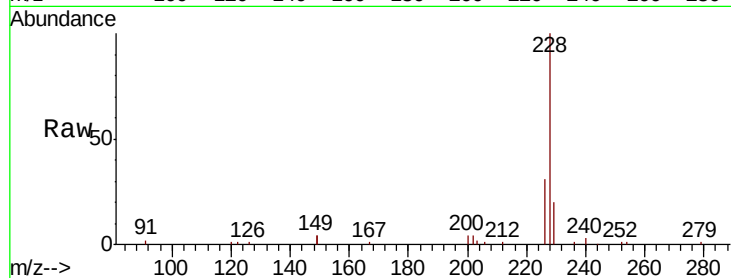
ClientSampleId :

PB119482BS

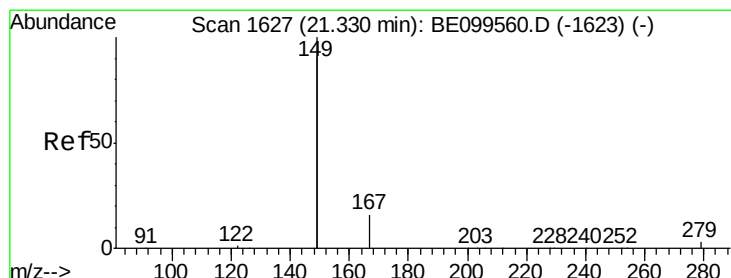
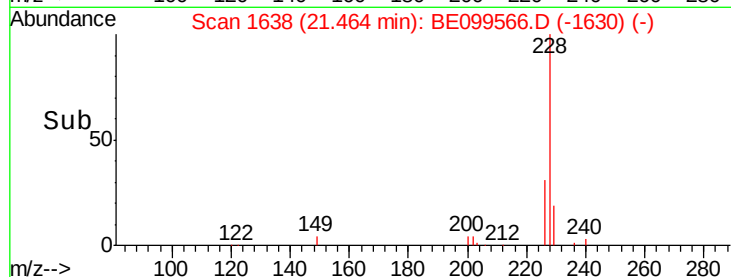
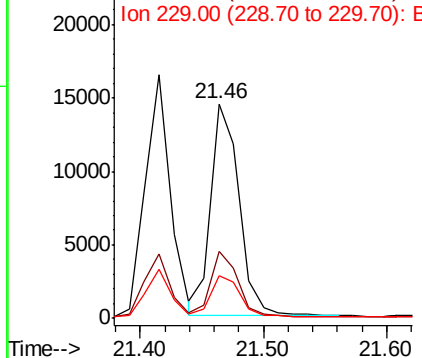
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 23219 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 31.3  | 24.2  | 36.4  |
| 229      | 19.6  | 15.8  | 23.6  |

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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: 0.387 ng

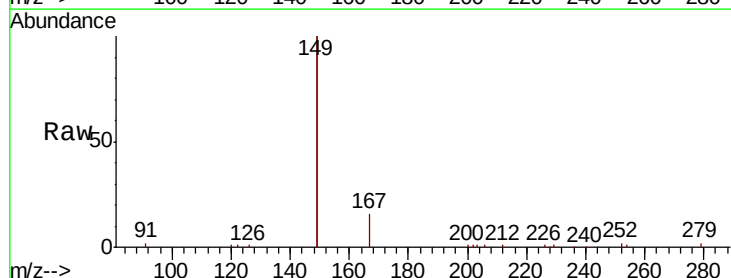
RT: 21.33 min Scan# 1627

Delta R.T. 0.00 min

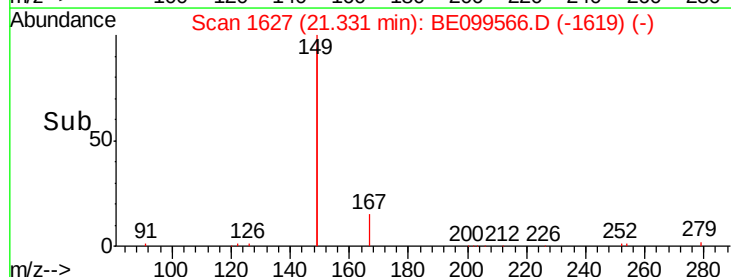
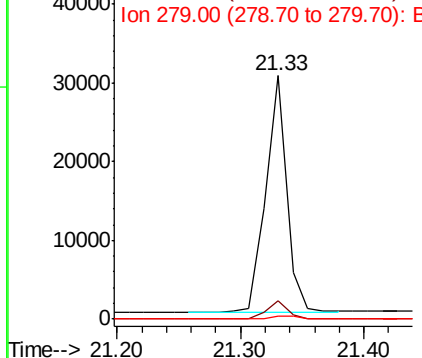
Lab File: BE099566.D

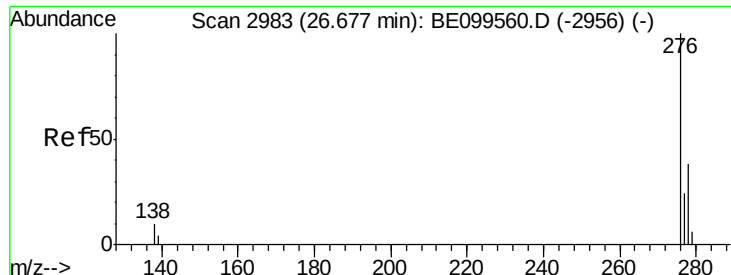
Acq: 7 May 2019 15:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 36232 |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 167      | 7.2   | 6.1   | 9.1   |
| 279      | 1.4   | 1.3   | 1.9   |



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





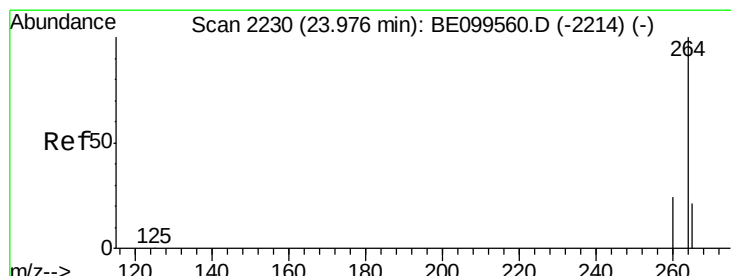
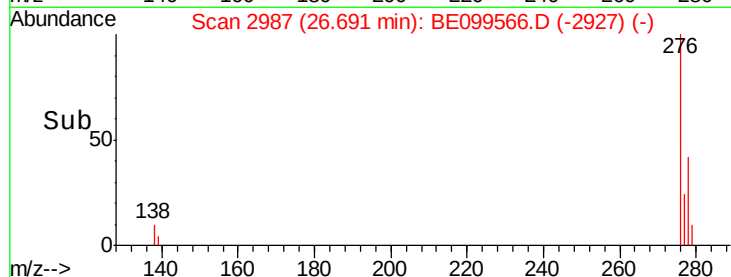
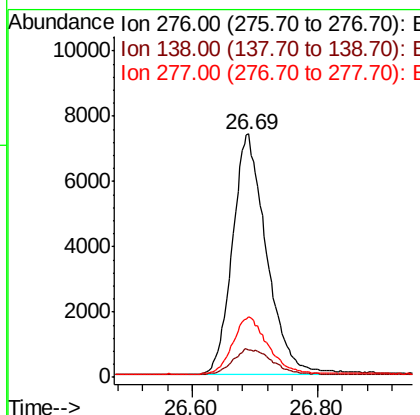
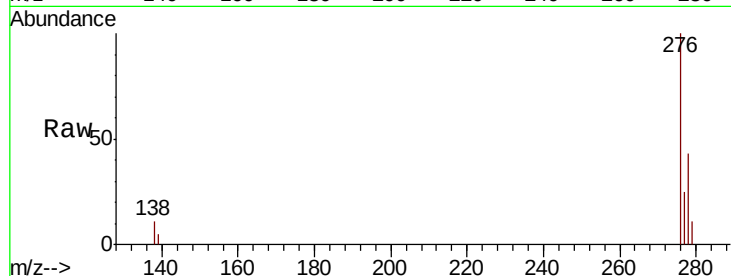
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.406 ng  
RT: 26.69 min Scan# 2987  
Delta R.T. 0.01 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

Instrument :  
BNA\_E  
ClientSampleId :  
PB119482BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 12.1  | 9.5   | 14.3  |
| 277     | 24.1  | 19.7  | 29.5  |

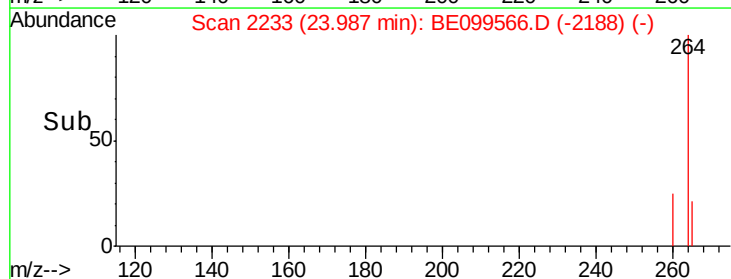
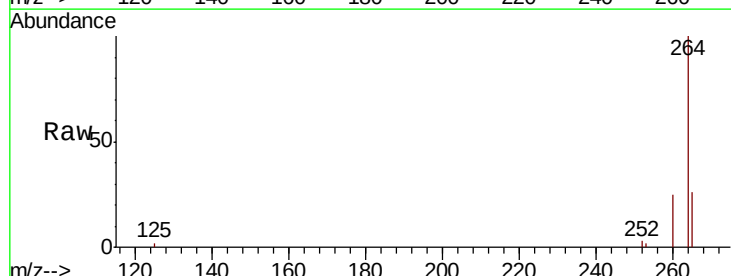
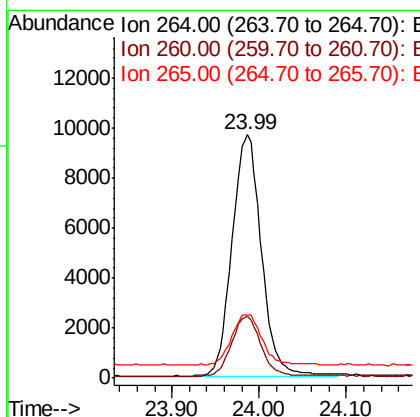
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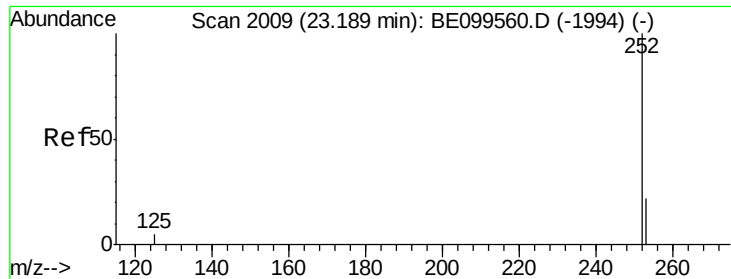
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#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.99 min Scan# 2233  
Delta R.T. 0.01 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.3  | 19.9  | 29.9  |
| 265     | 26.0  | 22.2  | 33.2  |





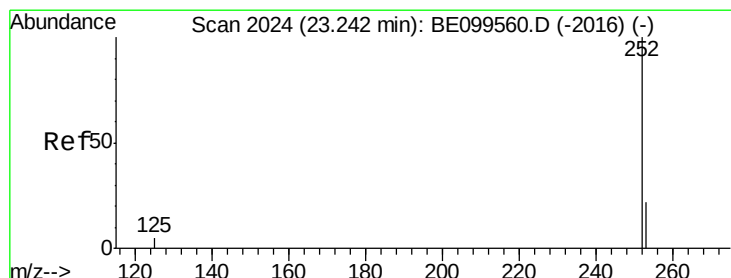
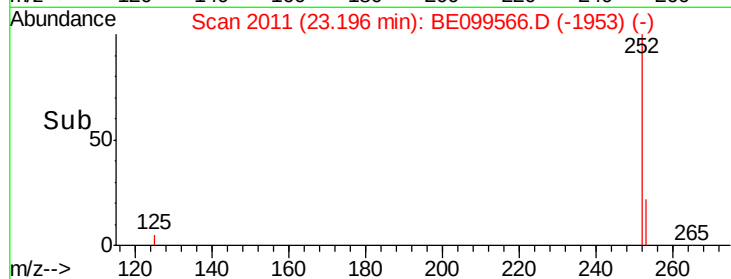
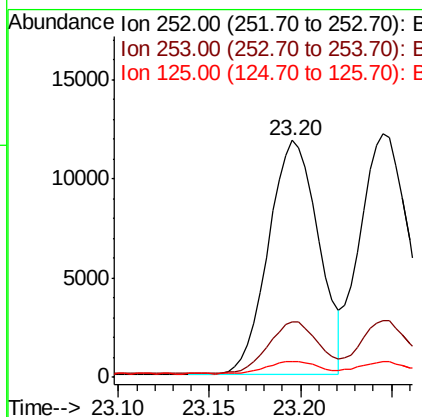
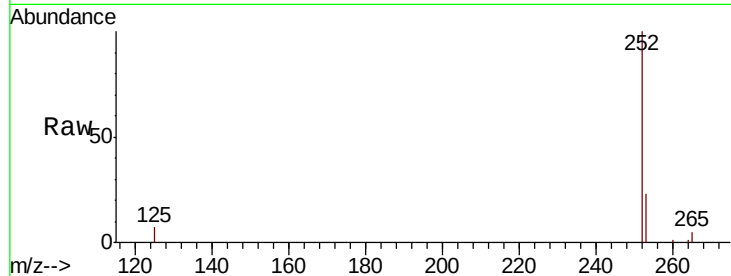
#35  
Benzo(b)fluoranthene  
Concen: 0.364 ng  
RT: 23.20 min Scan# 2011  
Delta R.T. 0.01 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

Instrument :  
BNA\_E  
ClientSampleId :  
PB119482BS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 19.0  | 28.4  |
| 125     | 6.9   | 5.8   | 8.6   |

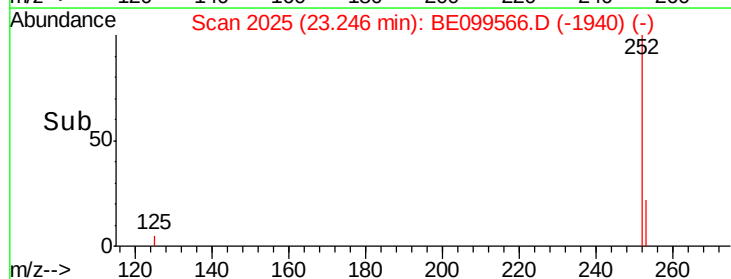
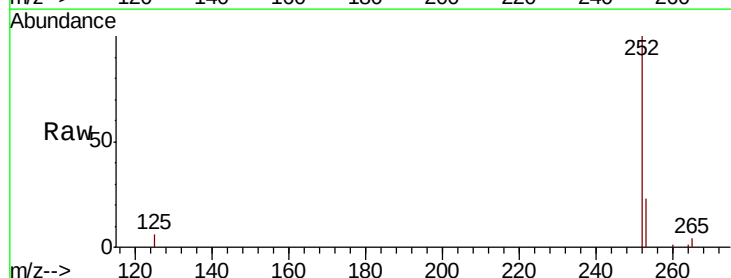
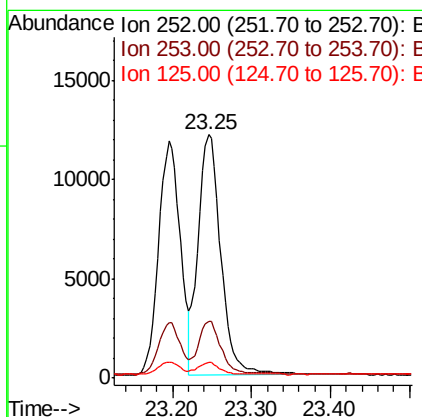
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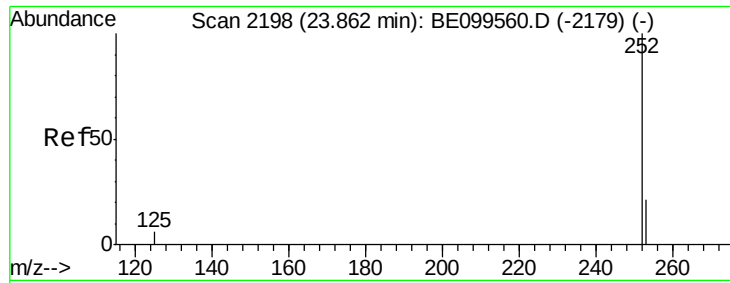
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#36  
Benzo(k)fluoranthene  
Concen: 0.398 ng  
RT: 23.25 min Scan# 2025  
Delta R.T. 0.00 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 19.1  | 28.7  |
| 125     | 6.3   | 5.8   | 8.6   |





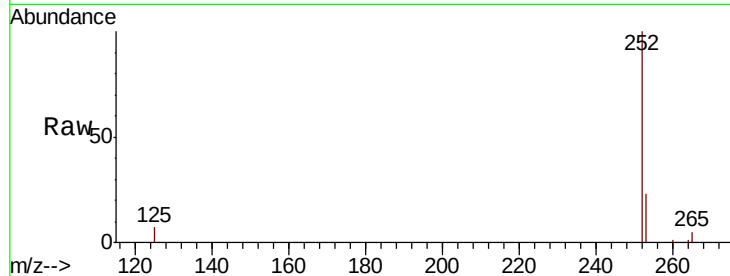
#37  
Benzo(a)pyrene  
Concen: 0.382 ng  
RT: 23.87 min Scan# 2200  
Delta R.T. 0.01 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

Instrument :  
BNA\_E  
ClientSampleId :  
PB119482BS

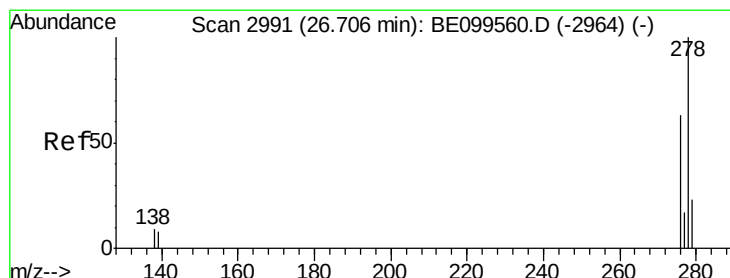
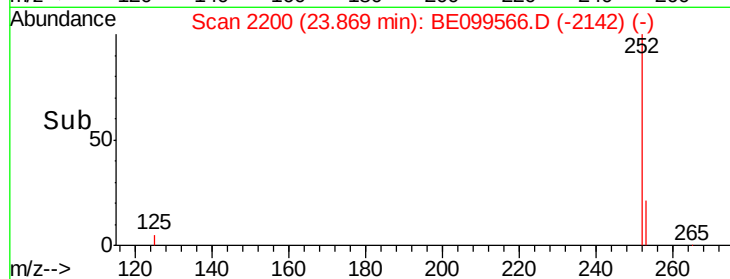
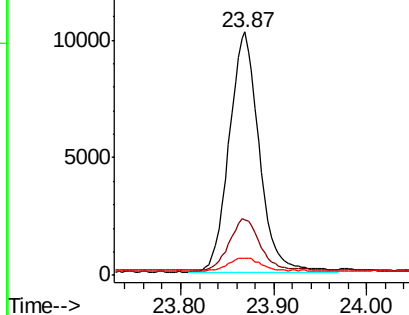
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 18.9  | 28.3  |
| 125     | 7.1   | 6.6   | 9.8   |

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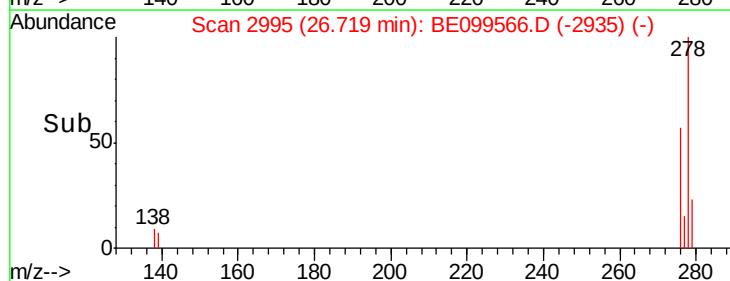
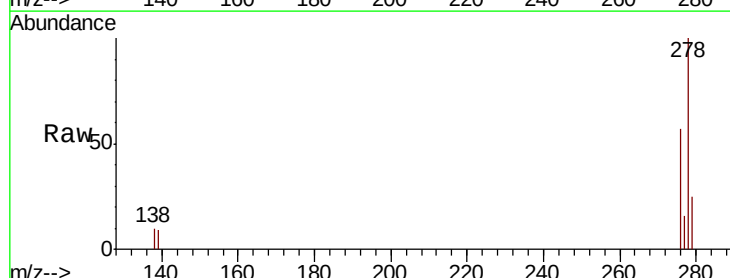
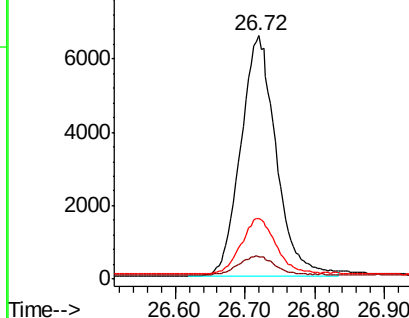
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

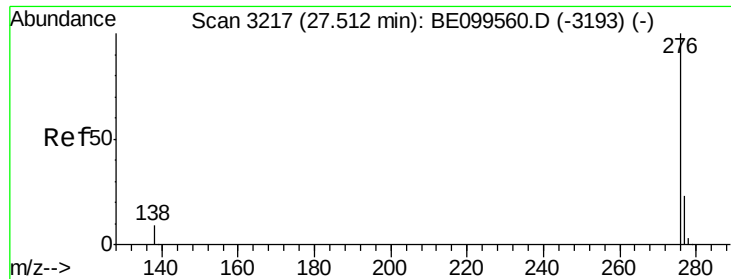


#38  
Dibenzo(a,h)anthracene  
Concen: 0.373 ng  
RT: 26.72 min Scan# 2995  
Delta R.T. 0.01 min  
Lab File: BE099566.D  
Acq: 7 May 2019 15:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 9.0   | 7.7   | 11.5  |
| 279     | 24.9  | 21.0  | 31.4  |

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: 0.382 ng

RT: 27.53 min Scan# 3222

Delta R.T. 0.02 min

Lab File: BE099566.D

Acq: 7 May 2019 15:27

Instrument :

BNA\_E

ClientSampleId :

PB119482BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 23745 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 24.6  | 19.7  | 29.5  |
| 138       | 11.1  | 8.6   | 12.8  |

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