

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE031819\  
 Data File : BE099000.D  
 Acq On : 18 Mar 2019 14:42  
 Operator : JU/SJ  
 Sample : PB117987BSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB117987BSD

Manual Integrations  
 APPROVED

Sohil  
 3/19/2019 5:25:41 PM

Quant Time: Mar 19 02:16:50 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE030619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 15 05:31:33 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 809      | 0.40 | ng    | 0.01     |
| 7) Naphthalene-d8         | 10.59 | 136  | 3848     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.46 | 164  | 2545     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.22 | 188  | 5649     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.40 | 240  | 6449     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.90 | 264  | 6075     | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.42  | 112 | 626   | 0.26 | ng | 0.03 |
| 5) Phenol-d6                | 7.01  | 99  | 1218  | 0.36 | ng | 0.02 |
| 8) Nitrobenzene-d5          | 8.99  | 82  | 1680  | 0.42 | ng | 0.03 |
| 11) 2-Methylnaphthalene-d10 | 12.21 | 152 | 2712  | 0.38 | ng | 0.01 |
| 14) 2,4,6-Tribromophenol    | 15.98 | 330 | 306   | 0.24 | ng | 0.01 |
| 15) 2-Fluorobiphenyl        | 13.09 | 172 | 5816  | 0.55 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.25 | 212 | 32443 | 0.36 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.84 | 244 | 19070 | 1.22 | ng | 0.00 |

|                                |       |     |       |          |        |     |
|--------------------------------|-------|-----|-------|----------|--------|-----|
| Target Compounds               |       |     |       |          | Qvalue |     |
| 2) 1,4-Dioxane                 | 3.29  | 88  | 552   | 0.339 ng |        | 92  |
| 3) n-Nitrosodimethylamine      | 3.69  | 42  | 301m  | 0.148 ng |        |     |
| 6) bis(2-Chloroethyl)ether     | 7.25  | 93  | 721   | 0.273 ng |        | 86  |
| 9) Naphthalene                 | 10.64 | 128 | 17487 | 0.397 ng |        | 100 |
| 10) Hexachlorobutadiene        | 10.91 | 225 | 1122  | 0.385 ng |        | 98  |
| 12) 2-Methylnaphthalene        | 12.28 | 142 | 2572  | 0.360 ng |        | 98  |
| 16) Acenaphthylene             | 14.18 | 152 | 4995  | 0.382 ng |        | 96  |
| 17) Acenaphthene               | 14.53 | 154 | 3038  | 0.391 ng |        | 99  |
| 18) Fluorene                   | 15.52 | 166 | 4127  | 0.369 ng |        | 99  |
| 20) 4-Bromophenyl-phenylether  | 16.41 | 248 | 1360  | 0.444 ng |        | 84  |
| 21) Hexachlorobenzene          | 16.52 | 284 | 1590  | 0.437 ng |        | 97  |
| 22) Pentachlorophenol          | 16.96 | 266 | 50    | 0.305 ng |        | 99  |
| 23) Phenanthrene               | 17.26 | 178 | 6571  | 0.409 ng |        | 99  |
| 24) Anthracene                 | 17.35 | 178 | 4873  | 0.355 ng |        | 98  |
| 26) Fluoranthene               | 19.28 | 202 | 8429  | 0.372 ng |        | 99  |
| 28) Pyrene                     | 19.64 | 202 | 8594  | 0.436 ng |        | 100 |
| 30) Benzo(a)anthracene         | 21.39 | 228 | 6940  | 0.345 ng |        | 97  |
| 31) Chrysene                   | 21.44 | 228 | 8446  | 0.392 ng |        | 100 |
| 32) Bis(2-ethylhexyl)phthalate | 21.29 | 149 | 12932 | 0.302 ng |        | 100 |
| 33) Indeno(1,2,3-cd)pyrene     | 26.55 | 276 | 7249  | 0.319 ng | #      | 86  |
| 35) Benzo(b)fluoranthene       | 23.13 | 252 | 7675m | 0.384 ng |        |     |
| 36) Benzo(k)fluoranthene       | 23.19 | 252 | 9652  | 0.462 ng |        | 99  |
| 37) Benzo(a)pyrene             | 23.79 | 252 | 7770  | 0.406 ng | #      | 84  |
| 38) Dibenzo(a,h)anthracene     | 26.58 | 278 | 4648  | 0.257 ng |        | 93  |
| 39) Benzo(g,h,i)perylene       | 27.35 | 276 | 5766  | 0.304 ng | #      | 96  |

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

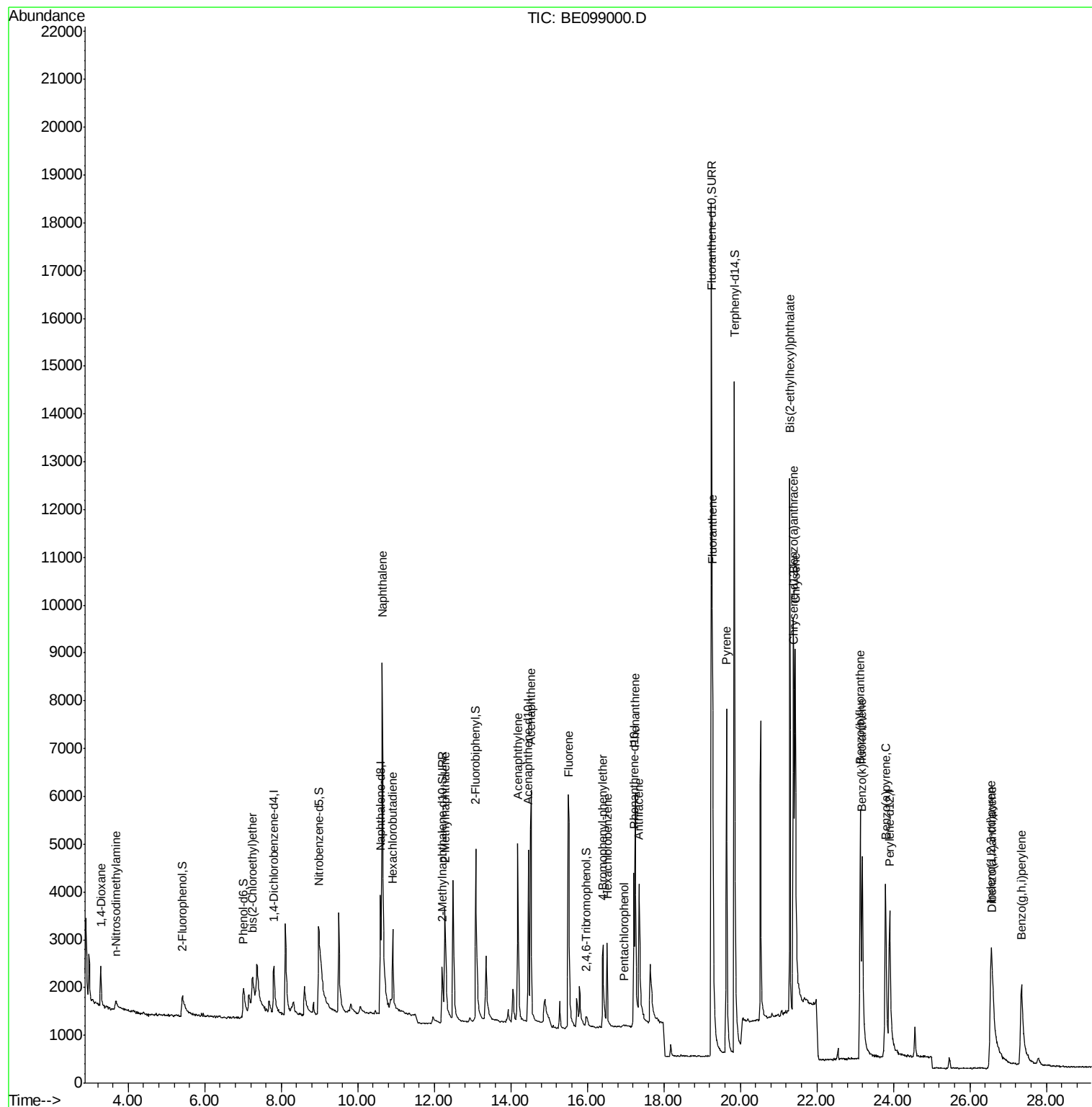
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE031819\  
Data File : BE099000.D  
Acq On : 18 Mar 2019 14:42  
Operator : JU/SJ  
Sample : PB117987BSD  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
PB117987BSD

Manual Integrations  
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3/19/2019 5:25:41 PM

Quant Time: Mar 19 02:16:50 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE030619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 15 05:31:33 2019  
Response via : Initial Calibration





#1

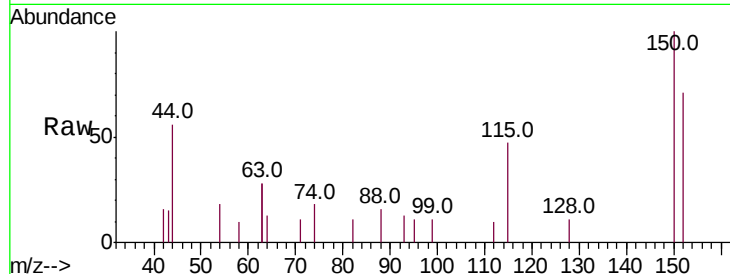
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.80 min Scan# 429  
Delta R.T. 0.01 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

Instrument :  
BNA\_E  
ClientSampleId :  
PB117987BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 140.9 | 122.5 | 183.7 |
| 115     | 66.8  | 57.4  | 86.2  |

Manual Integrations  
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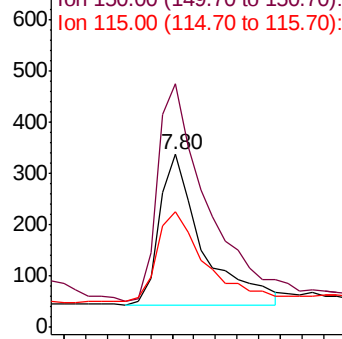


Abundance

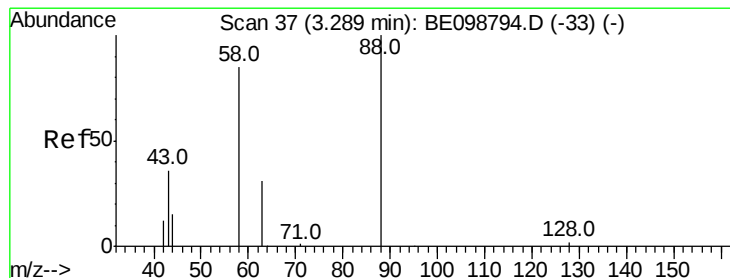
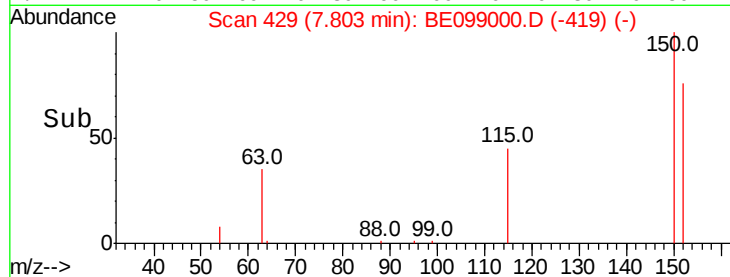
Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->



#2

1,4-Dioxane  
Concen: 0.339 ng  
RT: 3.29 min Scan# 37  
Delta R.T. 0.00 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

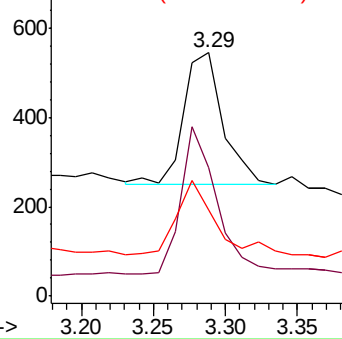
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 103.8 | 75.8  | 113.6 |
| 43      | 55.6  | 41.8  | 62.8  |

Abundance

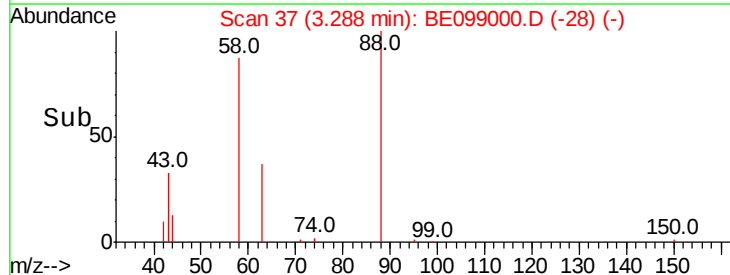
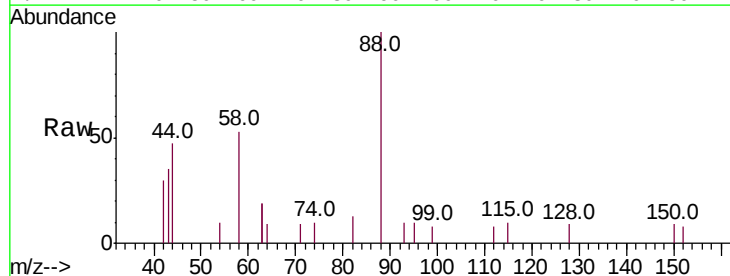
Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



Time-->





#3

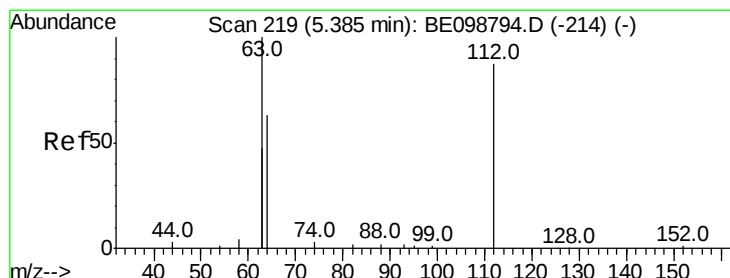
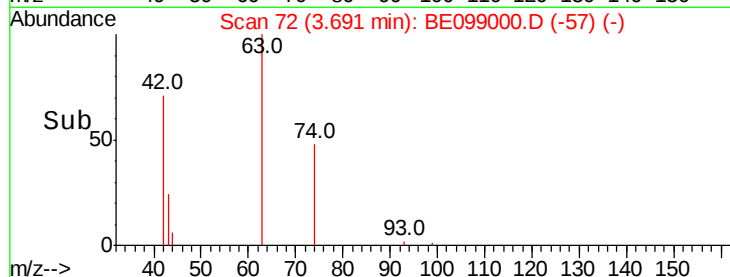
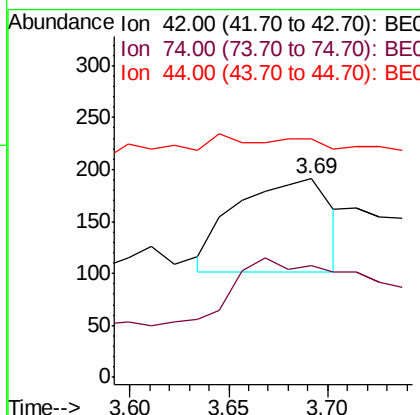
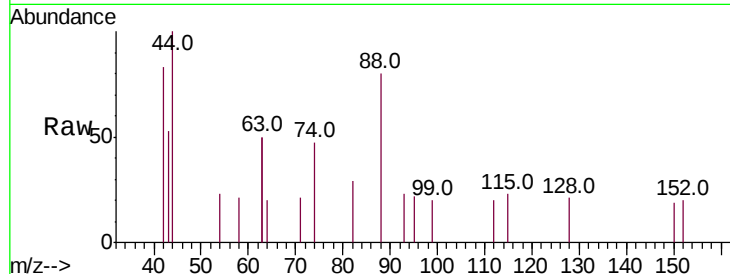
n-Nitrosodimethylamine  
 Concen: 0.148 ng/ml  
 RT: 3.69 min Scan# 72  
 Delta R.T. 0.07 min  
 Lab File: BE099000.D  
 Acq: 18 Mar 2019 14:42

Instrument :  
 BNA\_E  
 ClientSampleID :  
 PB117987BSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 42    | Resp: | 301   |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 74        | 0.0   | 57.0  | 85.4# |
| 44        | 0.0   | 0.0   | 0.0   |

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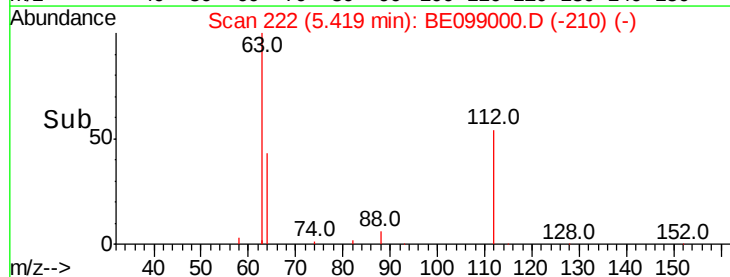
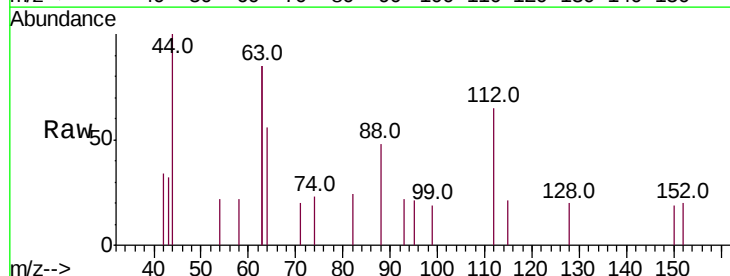
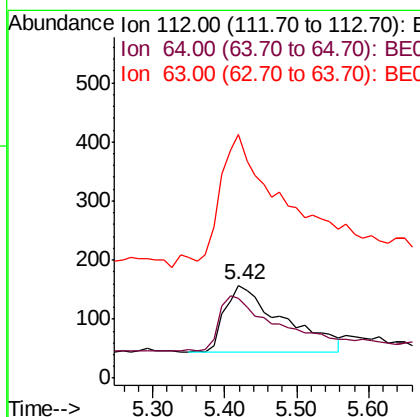
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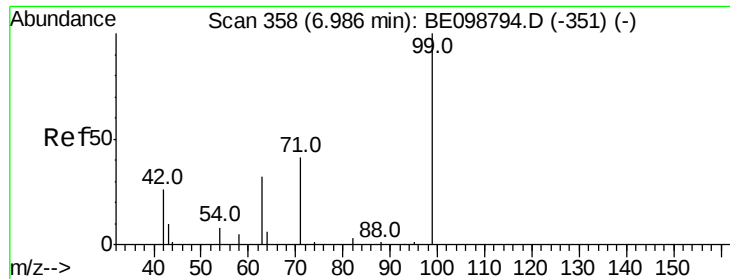


#4

2-Fluorophenol  
 Concen: 0.259 ng/ml  
 RT: 5.42 min Scan# 222  
 Delta R.T. 0.03 min  
 Lab File: BE099000.D  
 Acq: 18 Mar 2019 14:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 626    |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 98.2  | 57.9  | 86.9#  |
| 63        | 259.9 | 158.3 | 237.5# |





#5

Phenol-d6

Concen: 0.357 ng

RT: 7.01 min Scan# 360

Delta R.T. 0.02 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

Instrument :

BNA\_E

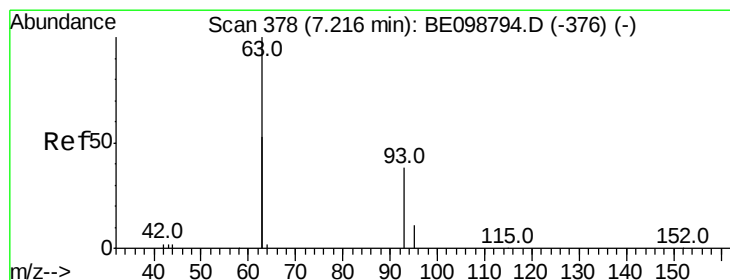
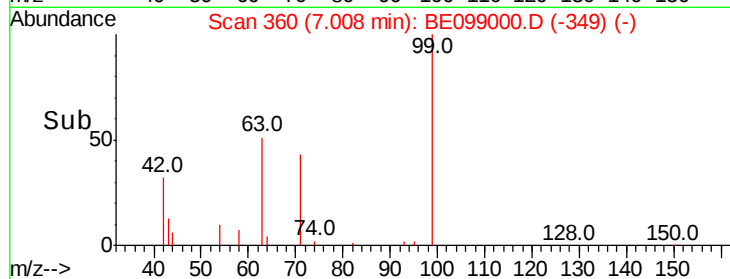
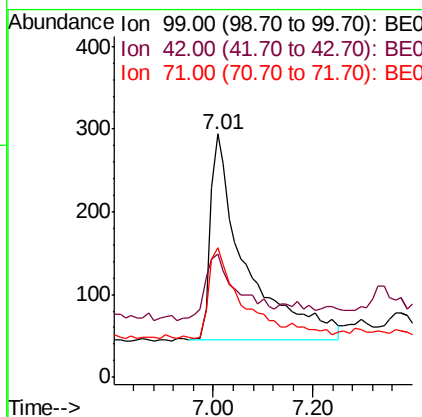
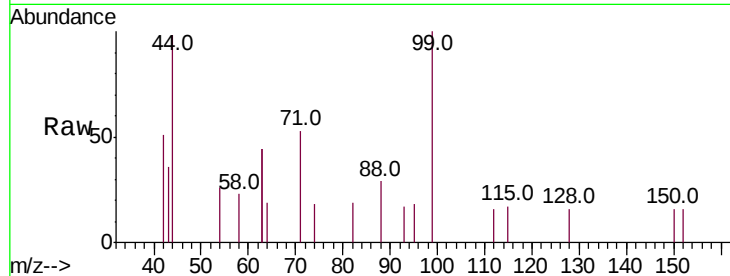
ClientSampleId :

PB117987BSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 1218  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 30.5  | 24.2  | 36.2  |
| 71       | 39.5  | 35.7  | 53.5  |

Manual Integrations  
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#6

bis(2-Chloroethyl)ether

Concen: 0.273 ng

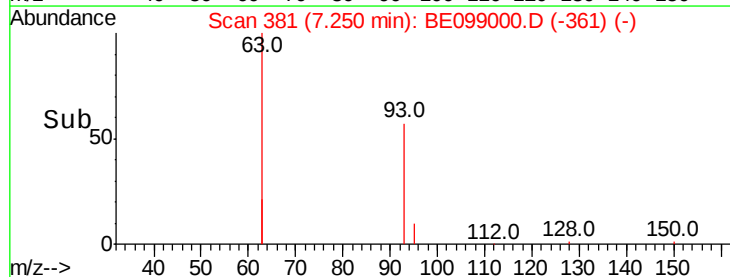
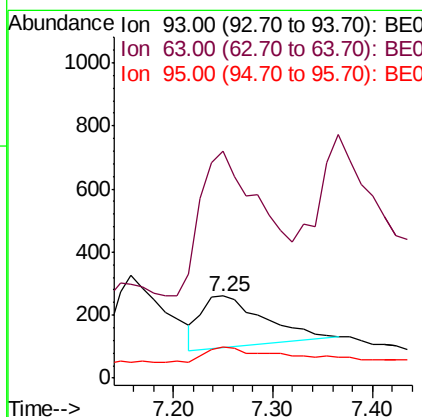
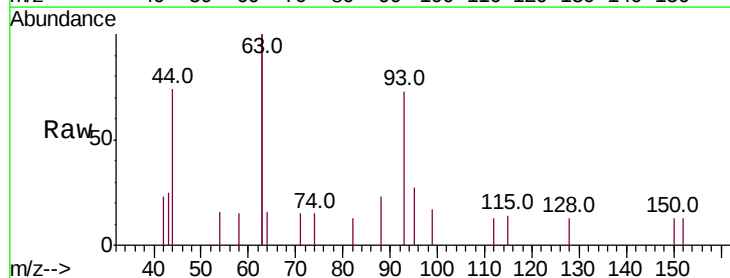
RT: 7.25 min Scan# 381

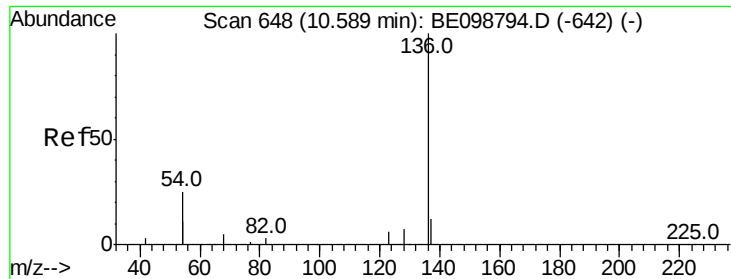
Delta R.T. 0.03 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 721   |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 279.9 | 247.5 | 371.3 |
| 95       | 29.8  | 21.8  | 32.8  |





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.59 min Scan# 649

Delta R.T. 0.00 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

Instrument :

BNA\_E

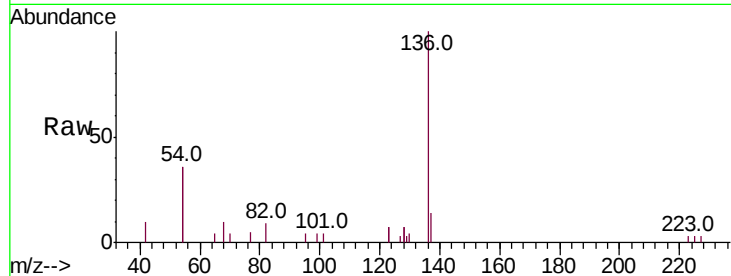
ClientSampleId :

PB117987BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 14.3  | 11.4  | 17.0  |
| 54      | 71.6  | 39.3  | 58.9  |
| 68      | 10.0  | 6.7   | 10.1  |

Manual Integrations  
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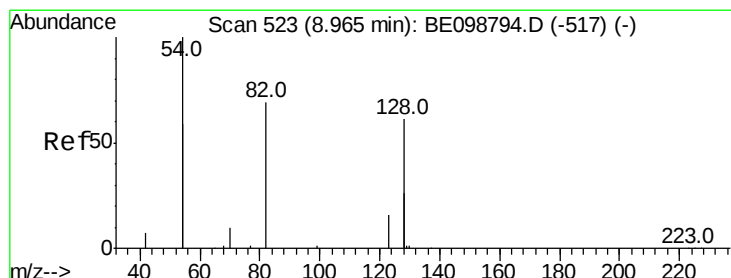
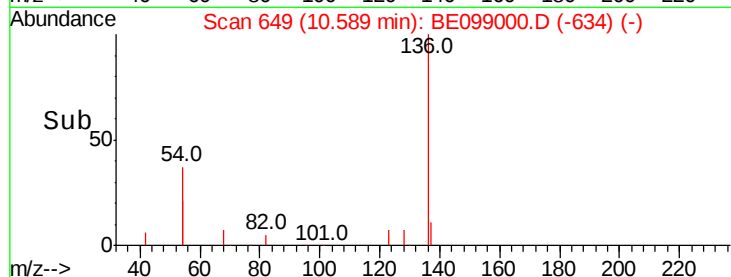
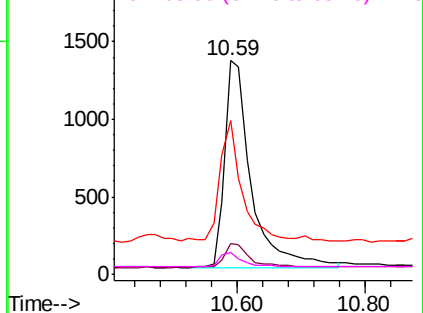
Abundance

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: 0.416 ng

RT: 8.99 min Scan# 526

Delta R.T. 0.03 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

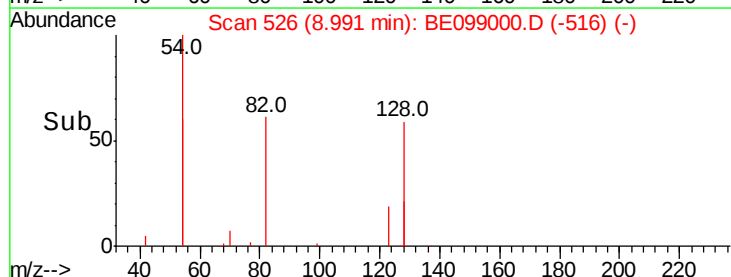
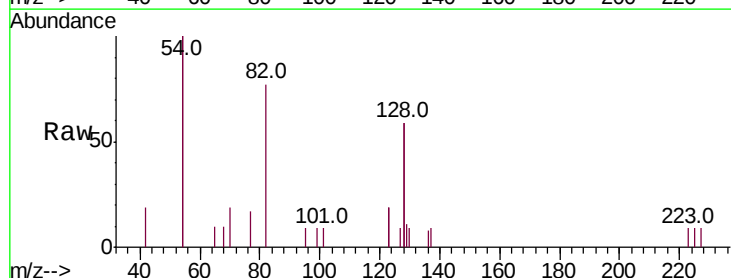
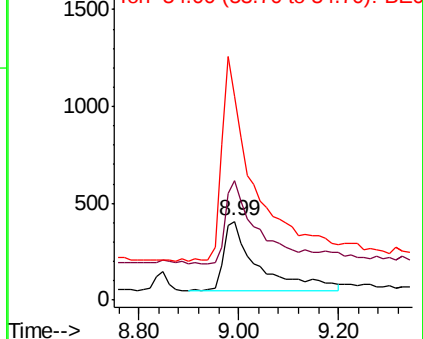
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 152.2 | 123.8 | 185.8 |
| 54      | 260.1 | 203.4 | 305.2 |

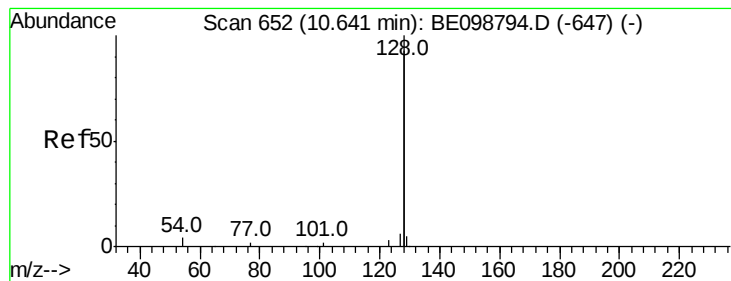
Abundance

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: 0.397 ng

RT: 10.64 min Scan# 653

Delta R.T. 0.00 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

Instrument :

BNA\_E

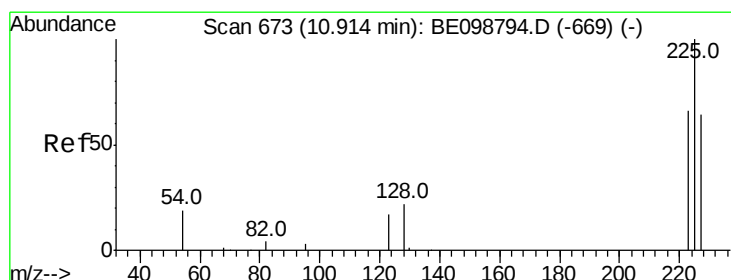
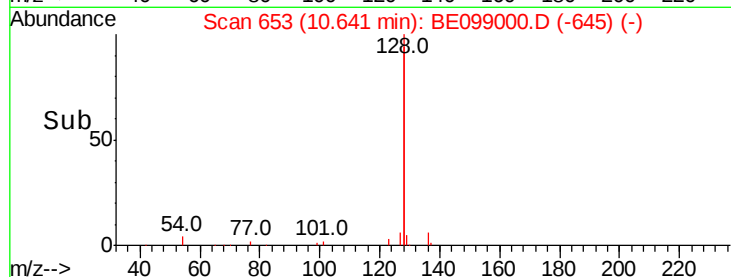
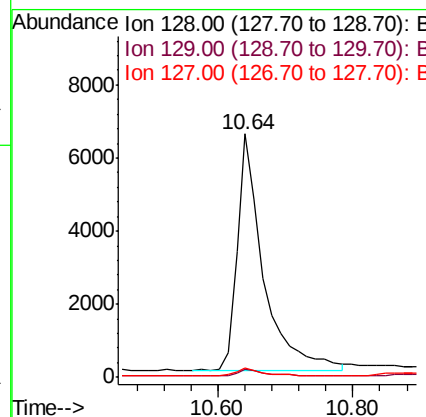
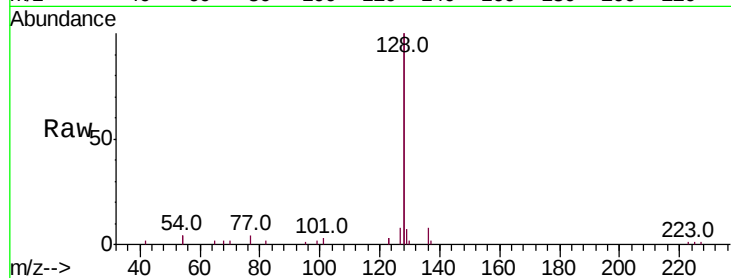
ClientSampleId :

PB117987BSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 17487 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.4   | 2.6   | 4.0   |
| 127       | 3.9   | 3.1   | 4.7   |

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#10

Hexachlorobutadiene

Concen: 0.385 ng

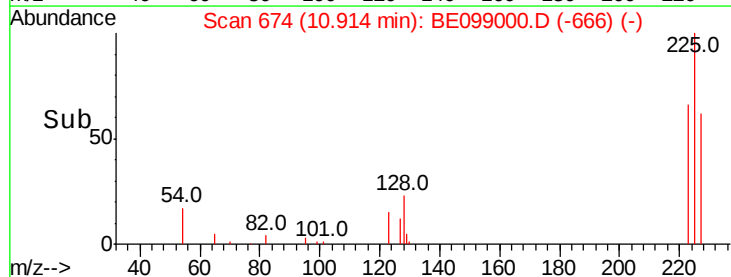
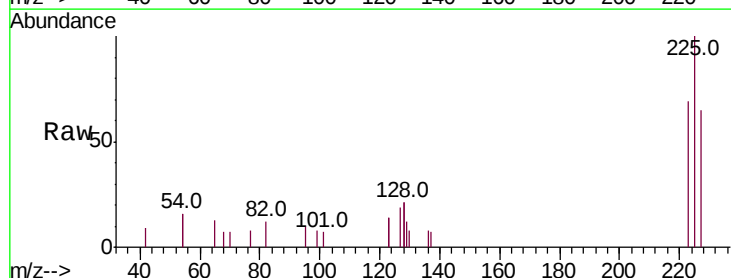
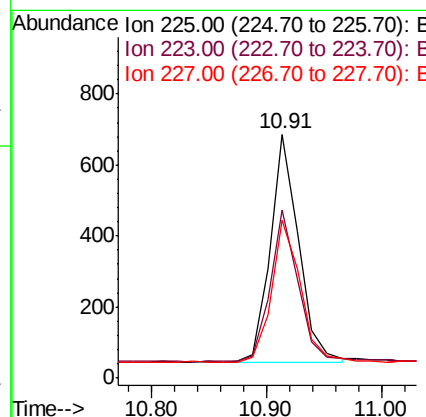
RT: 10.91 min Scan# 674

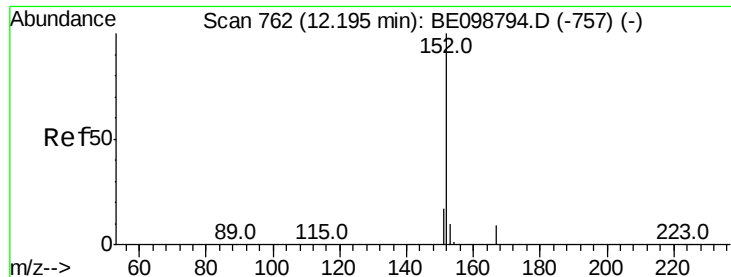
Delta R.T. 0.00 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 1122 |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 65.5  | 51.1  | 76.7 |
| 227       | 62.8  | 51.6  | 77.4 |





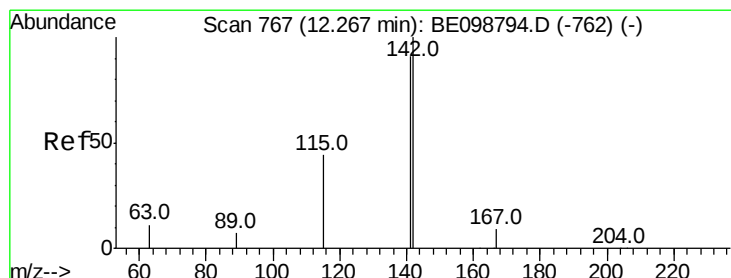
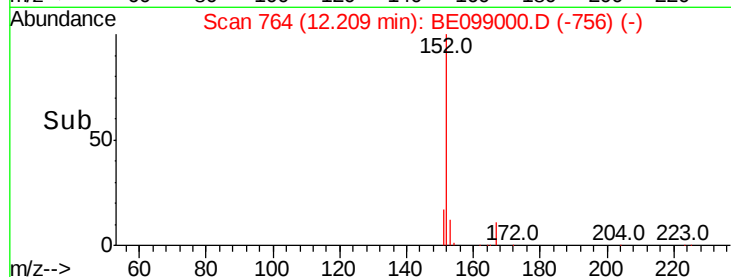
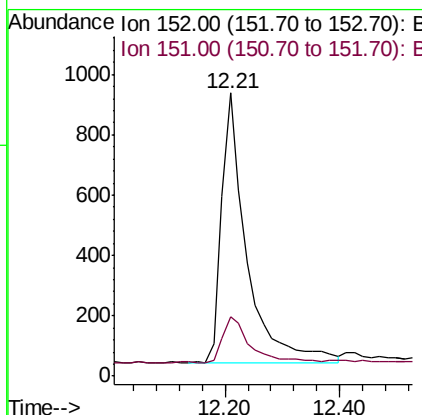
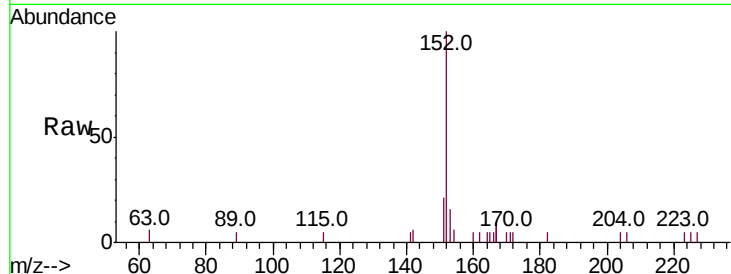
#11  
2-Methylnaphthalene-d10  
Concen: 0.381 ng  
RT: 12.21 min Scan# 764  
Delta R.T. 0.01 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

Instrument :  
BNA\_E  
ClientSampleId :  
PB117987BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.0  | 16.5  | 24.7  |

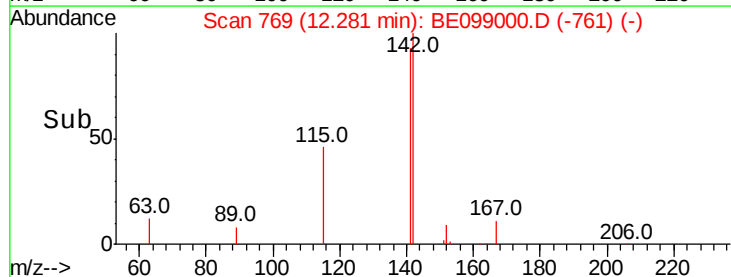
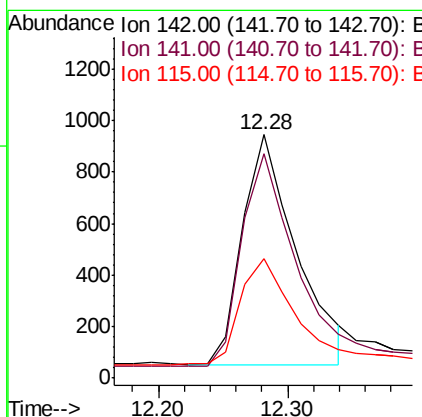
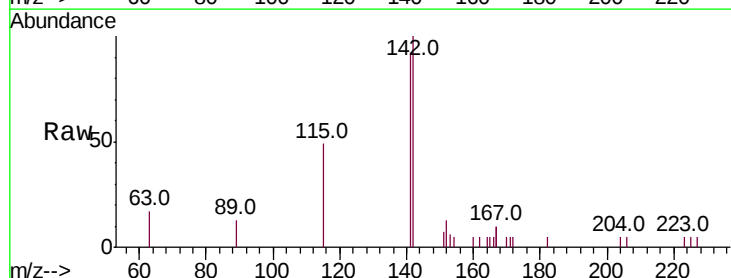
Manual Integrations  
APPROVED

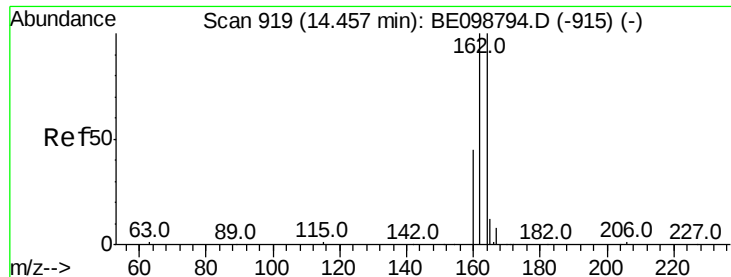
Sohil  
3/19/2019 5:25:41 PM



#12  
2-Methylnaphthalene  
Concen: 0.360 ng  
RT: 12.28 min Scan# 769  
Delta R.T. 0.01 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.0  | 72.6  | 108.8 |
| 115     | 49.0  | 37.4  | 56.2  |





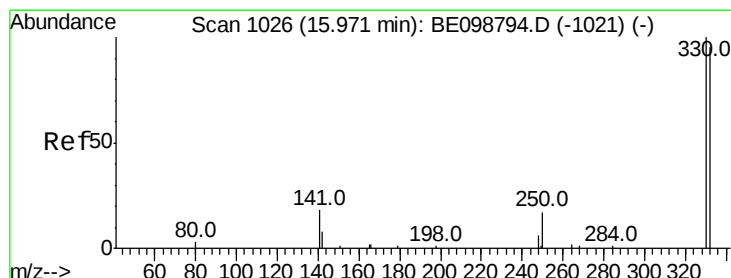
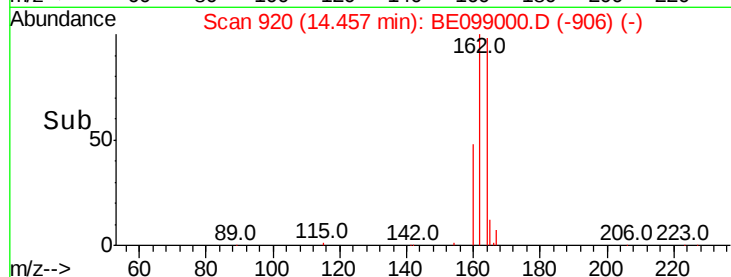
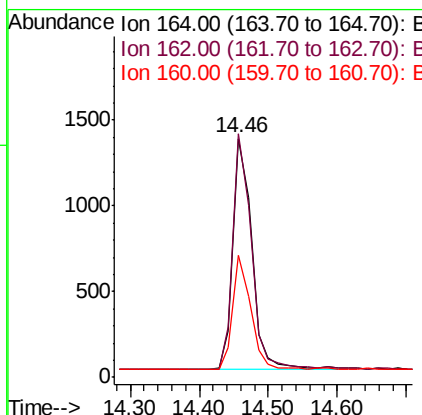
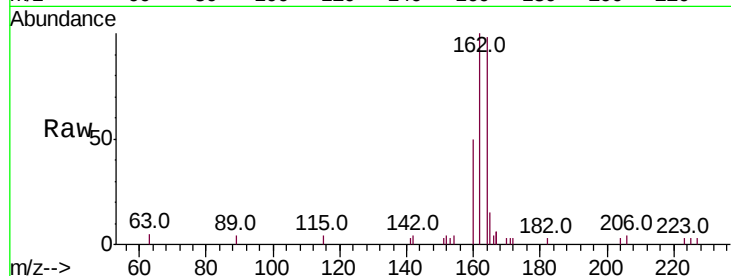
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.46 min Scan# 920  
Delta R.T. 0.00 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

Instrument :  
BNA\_E  
ClientSampleId :  
PB117987BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.9 | 80.2  | 120.2 |
| 160     | 50.9  | 37.8  | 56.8  |

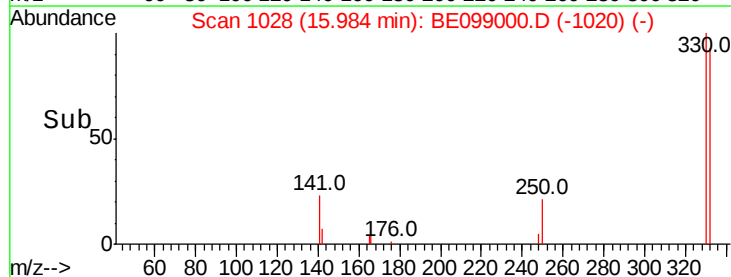
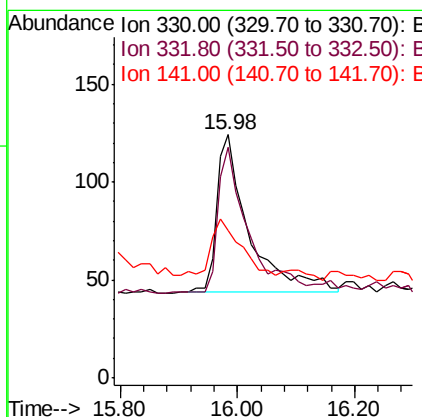
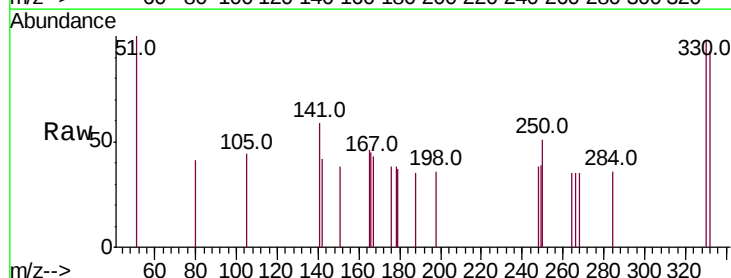
Manual Integrations  
APPROVED

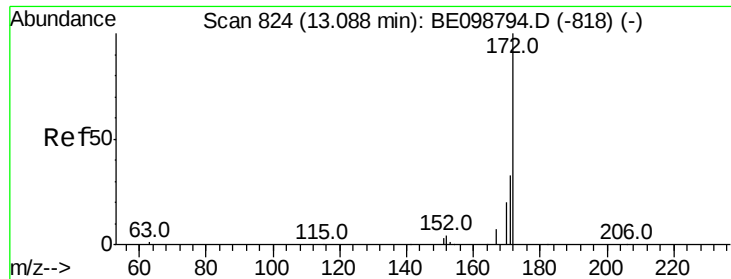
Sohil  
3/19/2019 5:25:41 PM



#14  
2,4,6-Tribromophenol  
Concen: 0.238 ng  
RT: 15.98 min Scan# 1028  
Delta R.T. 0.01 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 84.6  | 77.6  | 116.4 |
| 141     | 34.3  | 31.0  | 46.4  |





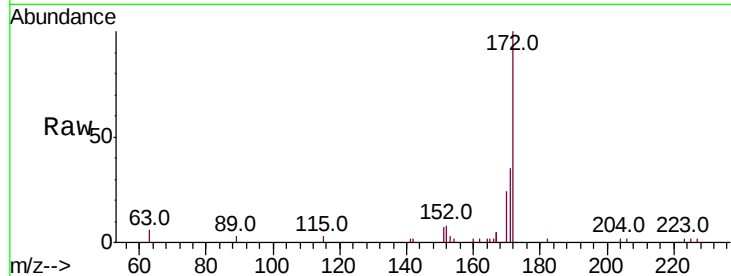
#15  
2-Fluorobiphenyl  
Concen: 0.552 ng  
RT: 13.09 min Scan# 825  
Delta R.T. 0.00 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

Instrument :  
BNA\_E  
ClientSampleId :  
PB117987BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.7  | 28.0  | 42.0  |
| 170     | 23.8  | 17.7  | 26.5  |

Manual Integrations  
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3/19/2019 5:25:41 PM

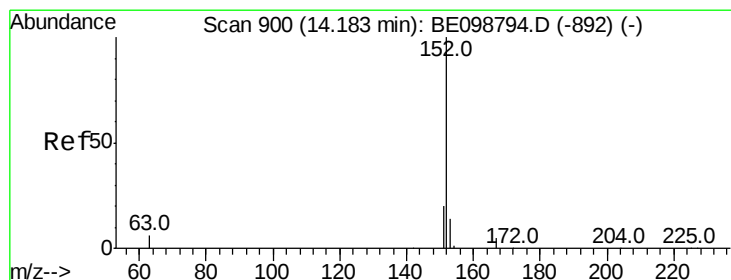
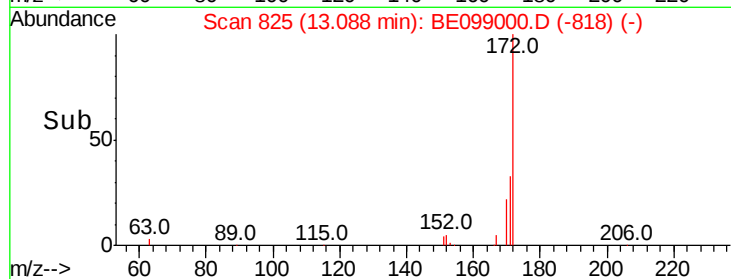
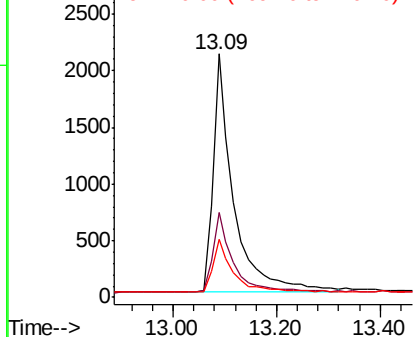


Abundance

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: 0.382 ng  
RT: 14.18 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

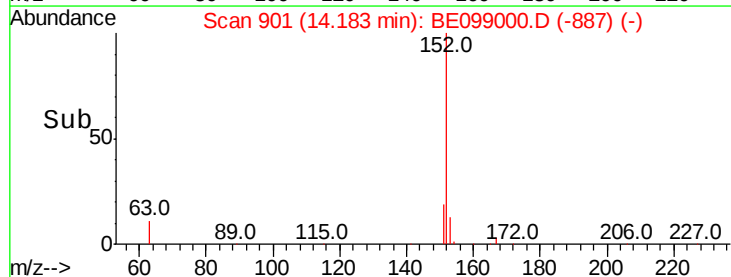
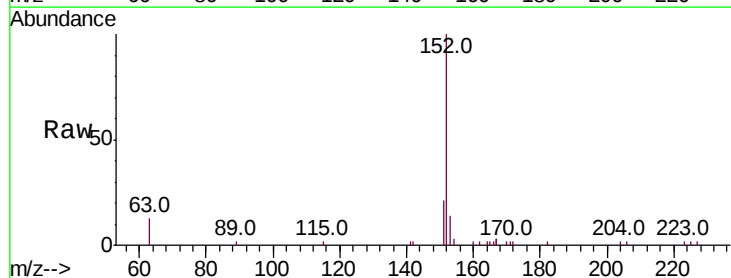
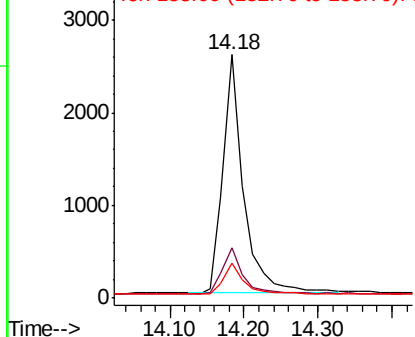
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.2  | 17.0  | 25.6  |
| 153     | 13.0  | 11.2  | 16.8  |

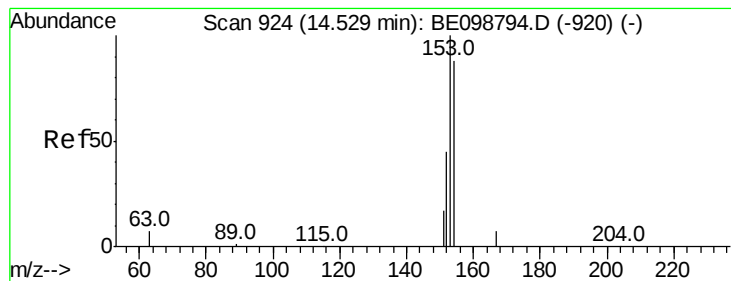
Abundance

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: 0.391 ng

RT: 14.53 min Scan# 925

Delta R.T. 0.00 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

Instrument :

BNA\_E

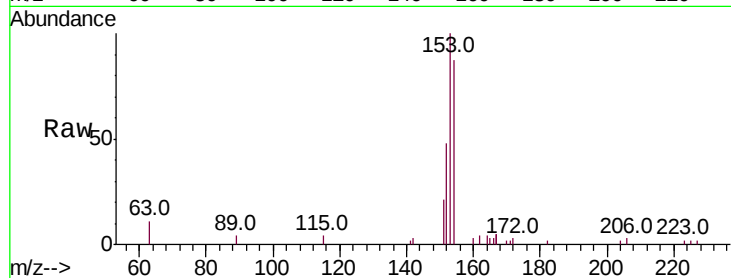
ClientSampled :

PB117987BSD

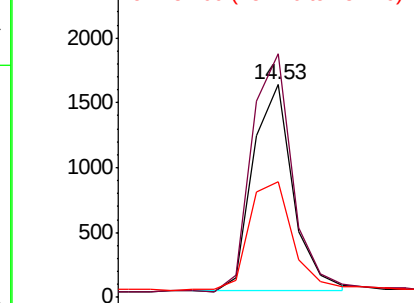
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 154   | Resp: | 3038  |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 116.4 | 94.2  | 141.4 |
| 152      | 57.2  | 45.0  | 67.4  |

Manual Integrations  
APPROVED

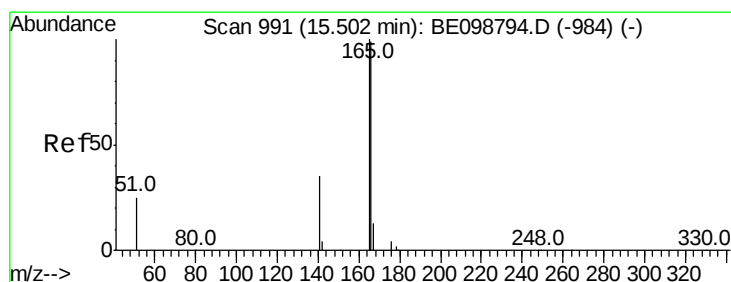
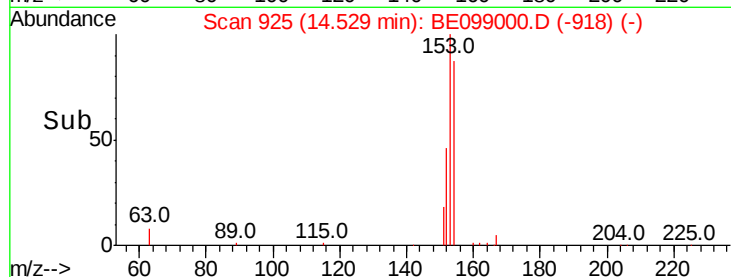
Sohil  
3/19/2019 5:25:41 PM



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



Time-->



#18

Fluorene

Concen: 0.369 ng

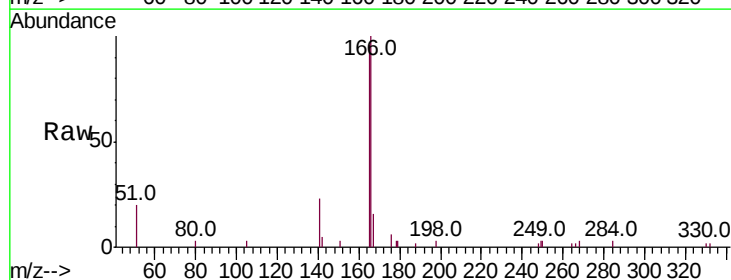
RT: 15.52 min Scan# 993

Delta R.T. 0.01 min

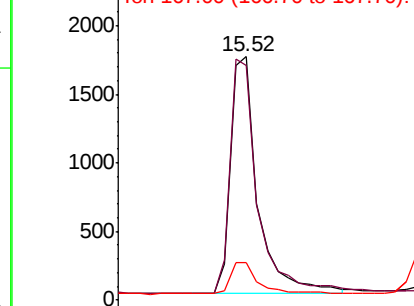
Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

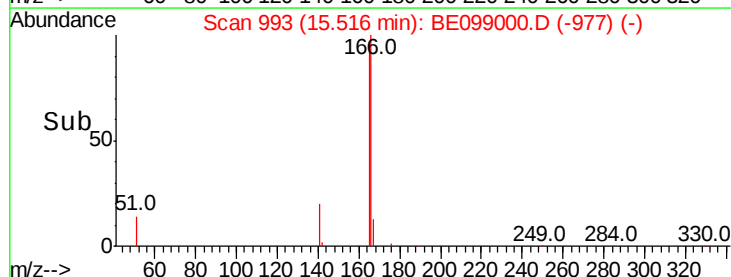
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 4127  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 100.1 | 79.3  | 118.9 |
| 167      | 13.5  | 10.5  | 15.7  |

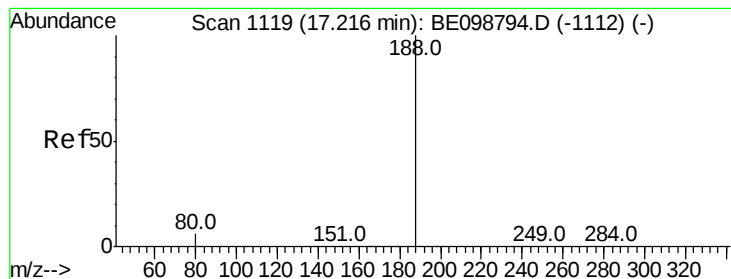


Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E



Time-->





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.22 min Scan# 1120

Delta R.T. 0.00 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

Instrument :

BNA\_E

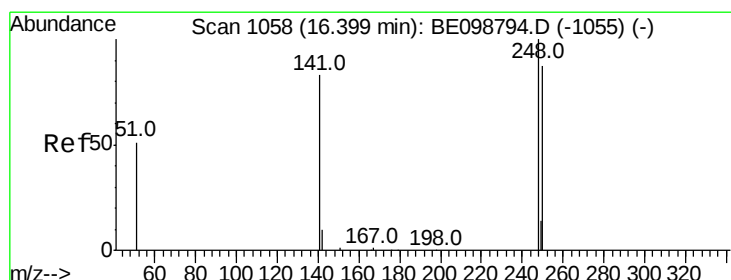
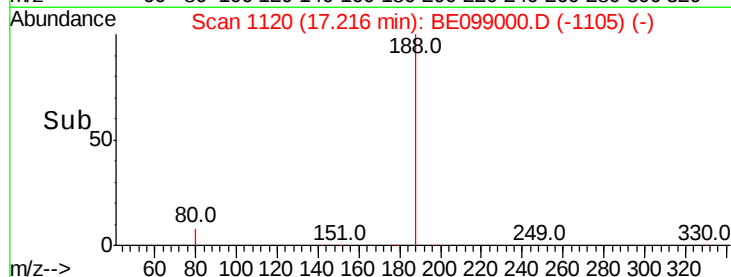
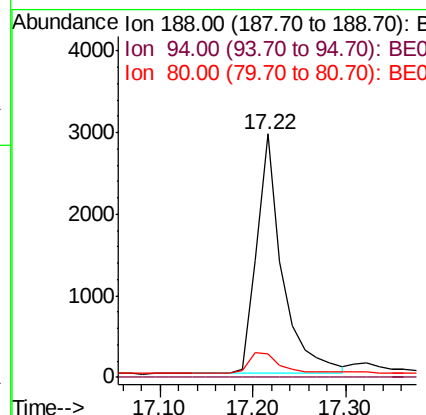
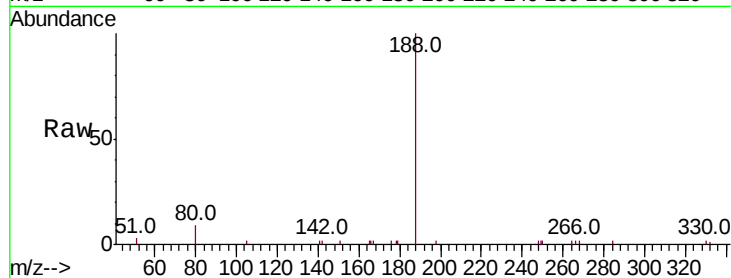
ClientSampleId :

PB117987BSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 188   | Resp: | 5649 |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 0.0   | 0.0  |
| 80        | 9.4   | 6.3   | 9.5  |

Manual Integrations  
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#20

4-Bromophenyl-phenylether

Concen: 0.444 ng

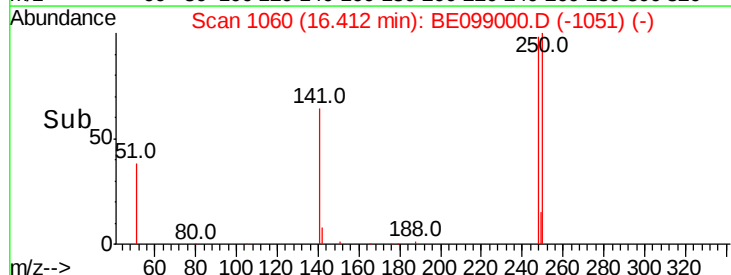
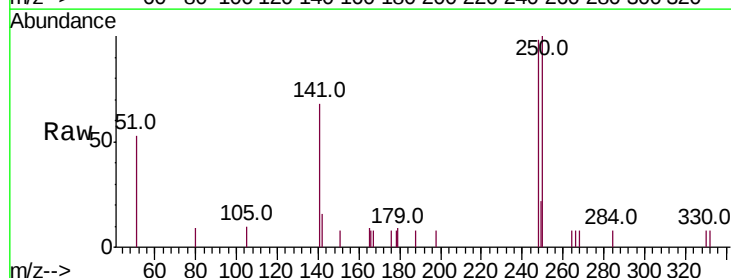
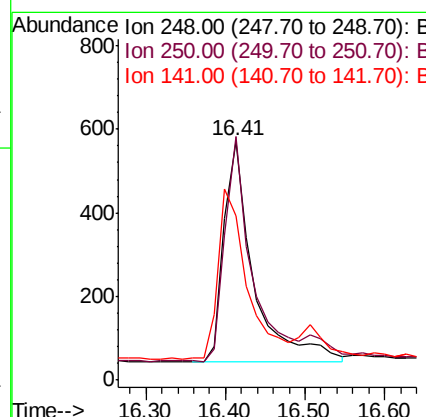
RT: 16.41 min Scan# 1060

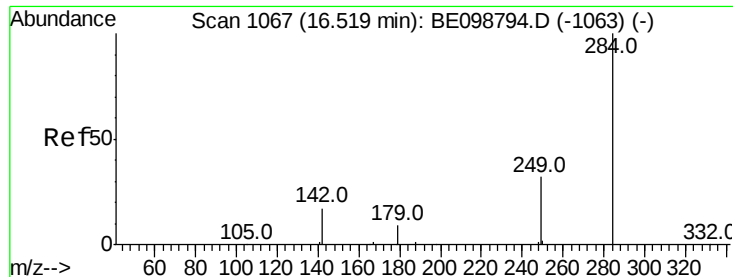
Delta R.T. 0.01 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 248   | Resp: | 1360  |
| Ion Ratio | Lower | Upper |       |
| 248       | 100   |       |       |
| 250       | 101.9 | 70.6  | 105.8 |
| 141       | 69.0  | 68.6  | 102.8 |





#21

Hexachlorobenzene

Concen: 0.437 ng

RT: 16.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

Instrument :

BNA\_E

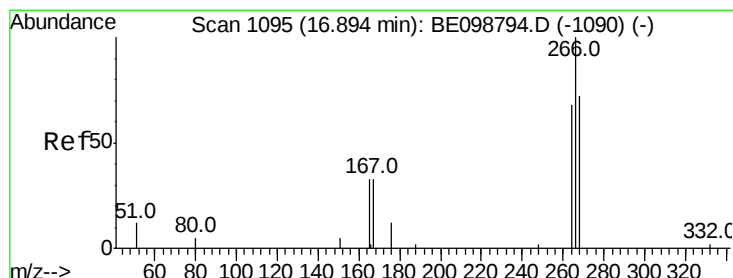
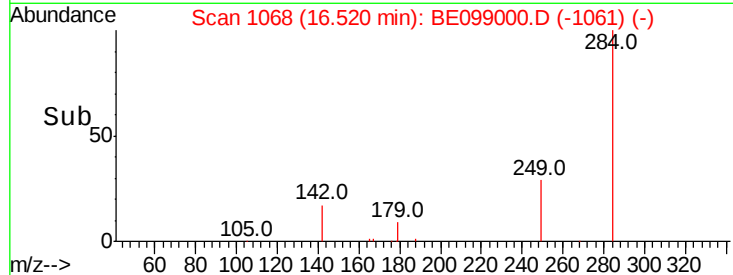
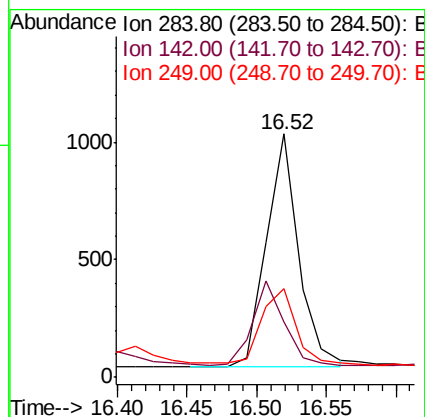
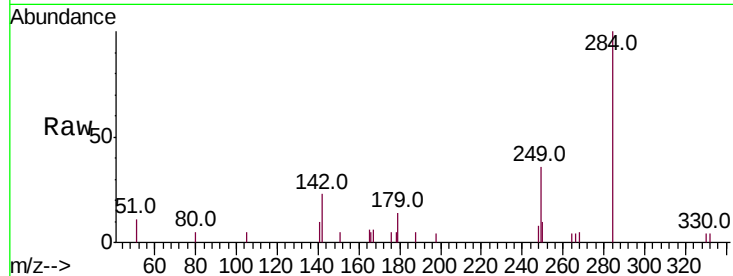
ClientSampled :

PB117987BSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 284   | Resp: | 1590 |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 35.0  | 28.7  | 43.1 |
| 249       | 33.8  | 29.6  | 44.4 |

Manual Integrations  
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#22

Pentachlorophenol

Concen: 0.305 ng

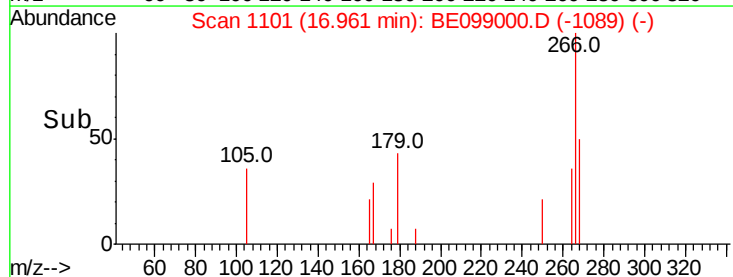
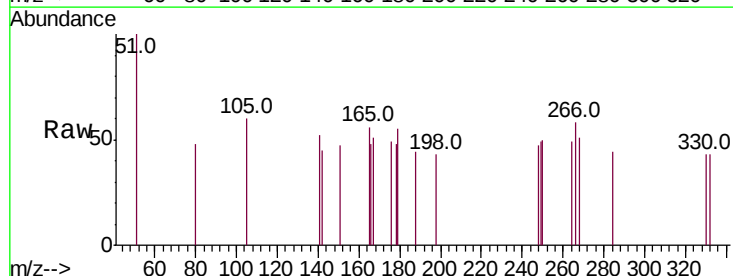
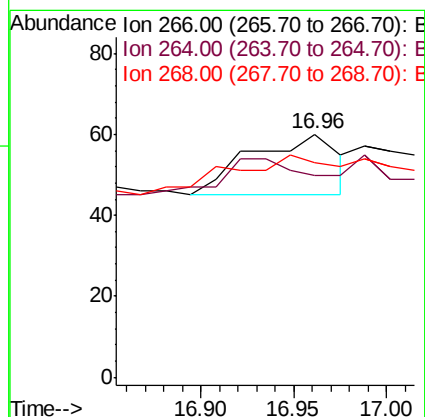
RT: 16.96 min Scan# 1101

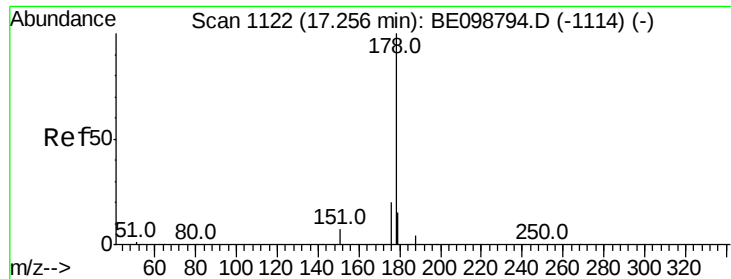
Delta R.T. 0.07 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 266   | Resp: | 50    |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 264       | 83.3  | 66.6  | 100.0 |
| 268       | 88.3  | 69.8  | 104.8 |





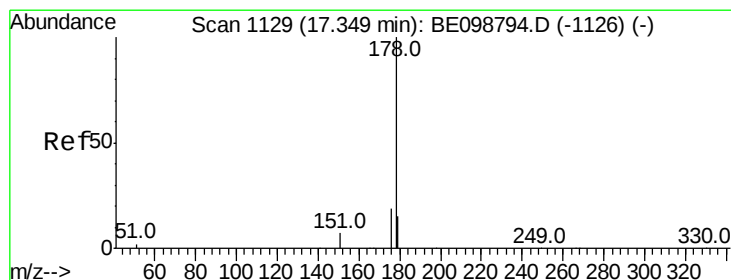
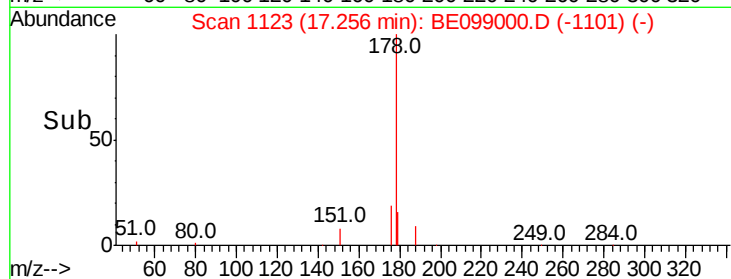
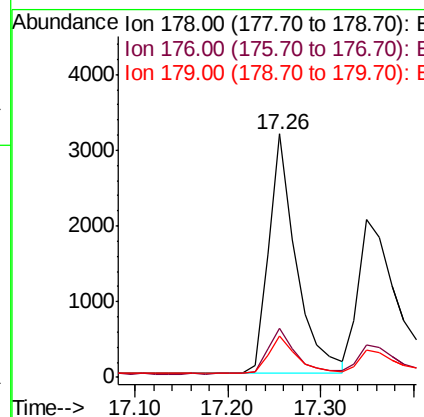
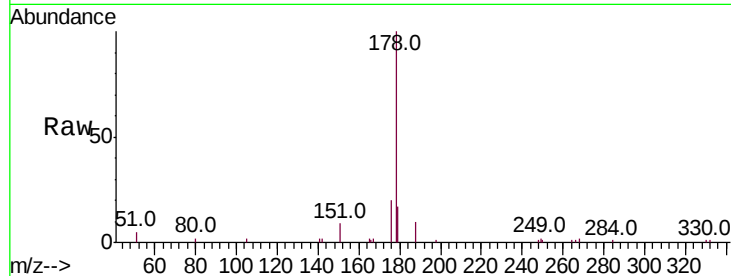
#23  
Phenanthrene  
Concen: 0.409 ng  
RT: 17.26 min Scan# 1123  
Delta R.T. 0.00 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

Instrument :  
BNA\_E  
ClientSampleId :  
PB117987BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 16.0  | 24.0  |
| 179     | 15.8  | 12.1  | 18.1  |

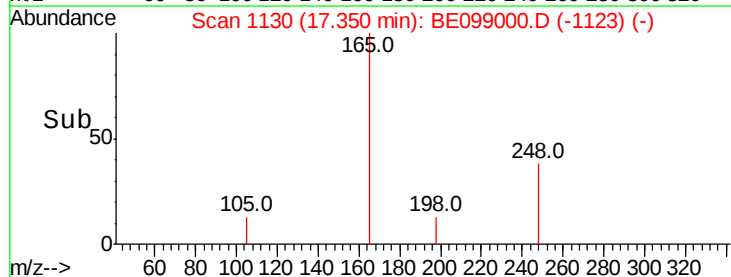
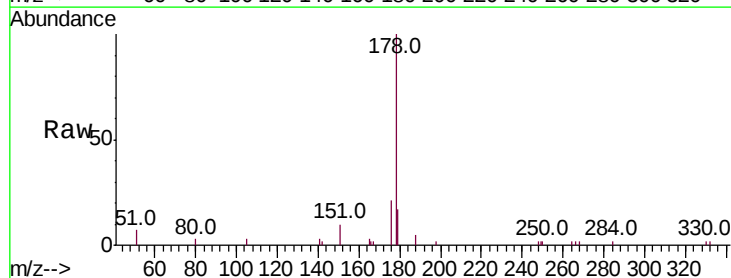
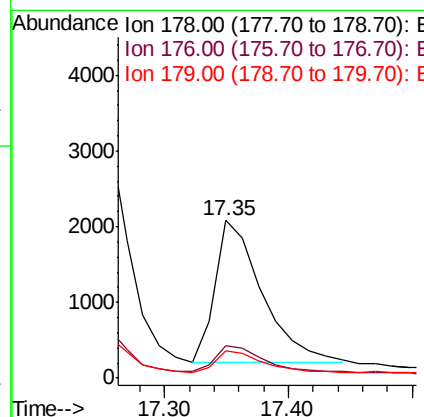
Manual Integrations  
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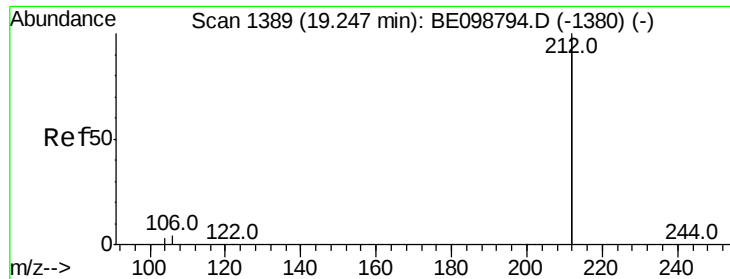
Sohil  
3/19/2019 5:25:41 PM



#24  
Anthracene  
Concen: 0.355 ng  
RT: 17.35 min Scan# 1130  
Delta R.T. 0.00 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.2  | 15.4  | 23.0  |
| 179     | 15.0  | 12.2  | 18.4  |





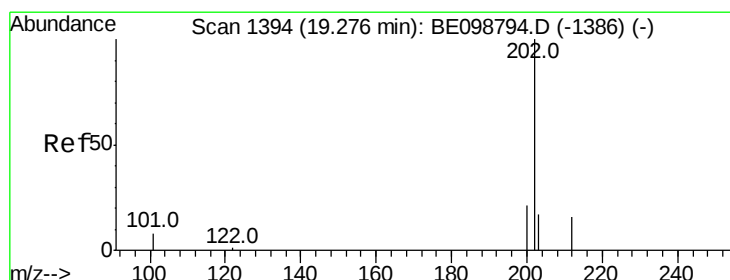
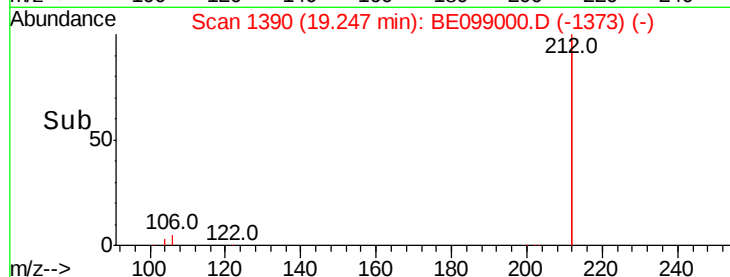
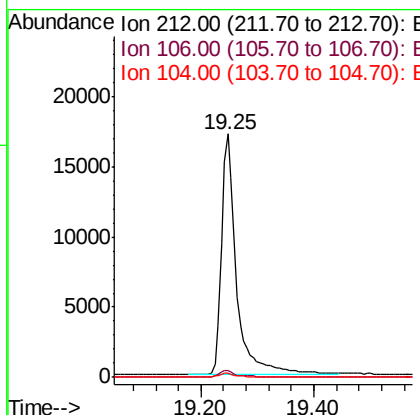
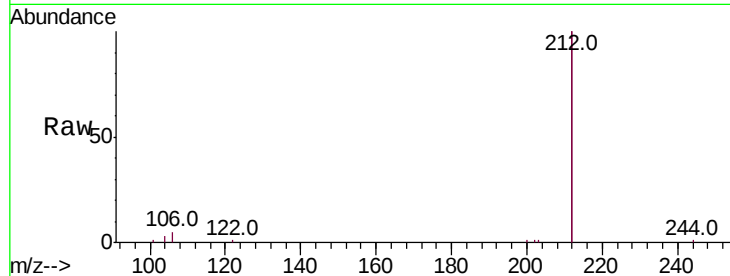
#25  
 Fluoranthene-d10  
 Concen: 0.360 ng  
 RT: 19.25 min Scan# 1390  
 Delta R.T. 0.00 min  
 Lab File: BE099000.D  
 Acq: 18 Mar 2019 14:42

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB117987BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 2.3   | 1.8   | 2.8   |
| 104     | 1.4   | 1.0   | 1.6   |

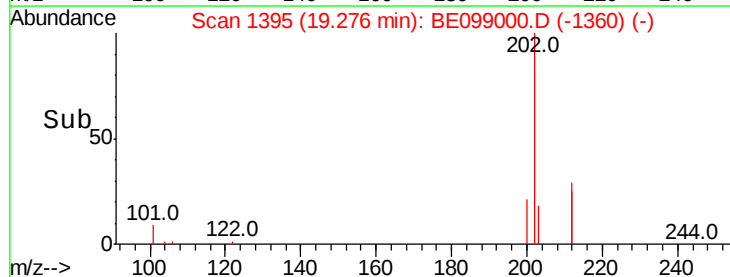
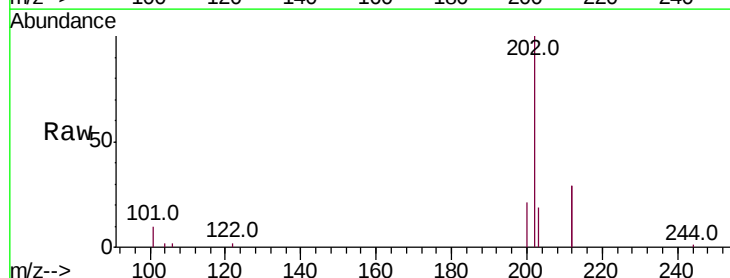
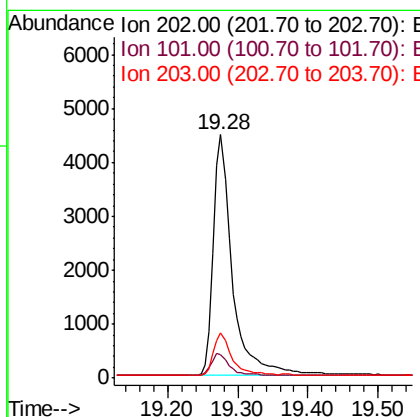
Manual Integrations  
 APPROVED

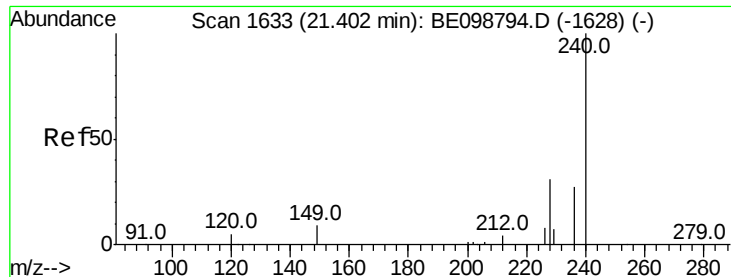
Sohil  
 3/19/2019 5:25:41 PM



#26  
 Fluoranthene  
 Concen: 0.372 ng  
 RT: 19.28 min Scan# 1395  
 Delta R.T. 0.00 min  
 Lab File: BE099000.D  
 Acq: 18 Mar 2019 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.3   | 7.3   | 10.9  |
| 203     | 17.3  | 13.4  | 20.2  |





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.40 min Scan# 1634

Delta R.T. -0.00 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

Instrument :

BNA\_E

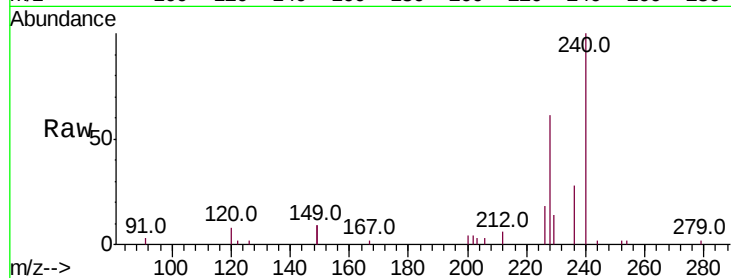
ClientSampleId :

PB117987BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 8.0   | 5.0   | 7.4#  |
| 236     | 27.7  | 22.7  | 34.1  |

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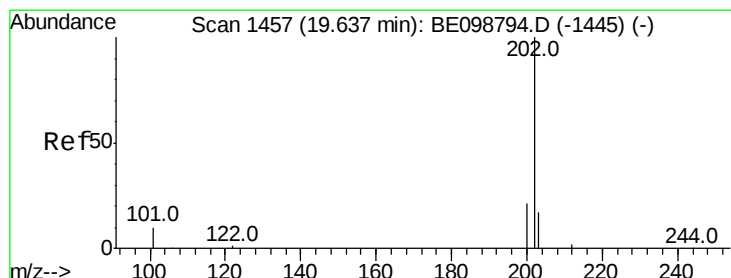
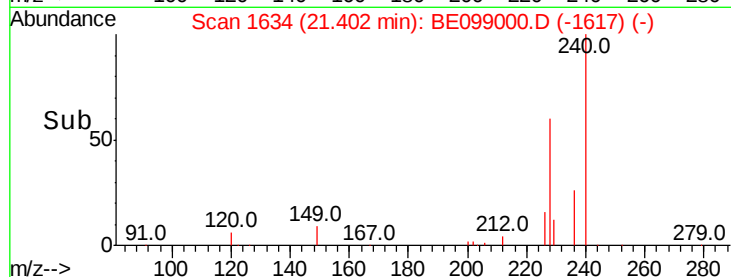
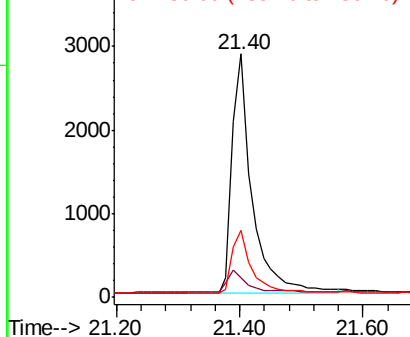


Abundance

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: 0.436 ng

RT: 19.64 min Scan# 1458

Delta R.T. 0.00 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

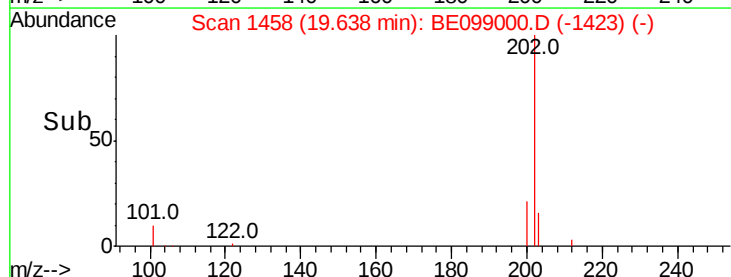
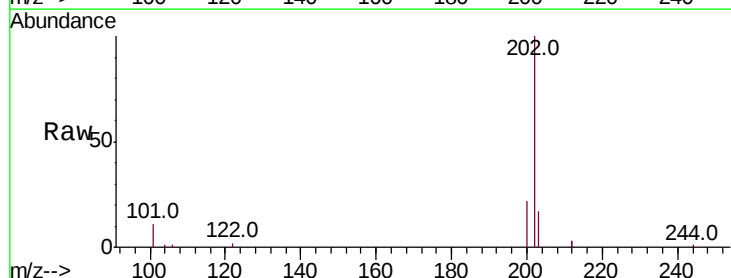
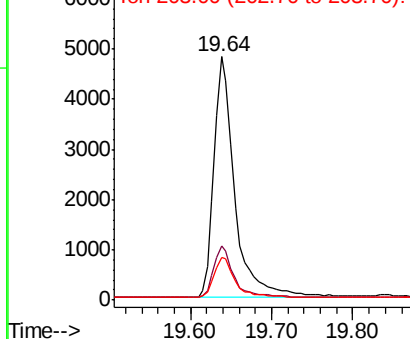
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.3  | 17.0  | 25.6  |
| 203     | 17.3  | 14.2  | 21.2  |

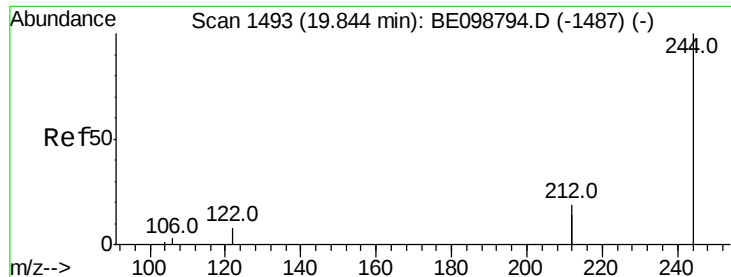
Abundance

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





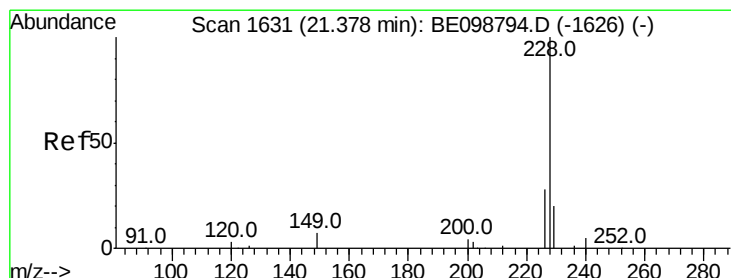
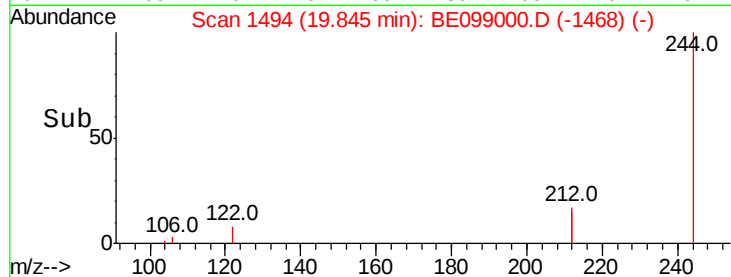
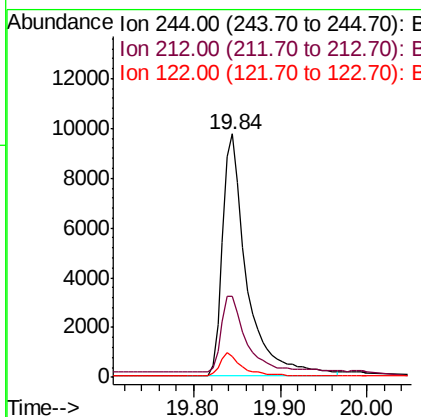
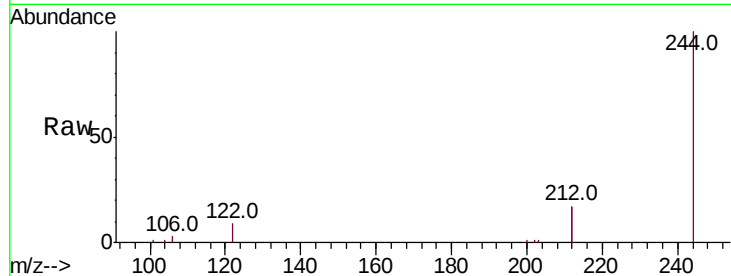
#29  
 Terphenyl-d14  
 Concen: 1.217 ng  
 RT: 19.84 min Scan# 1494  
 Delta R.T. 0.00 min  
 Lab File: BE099000.D  
 Acq: 18 Mar 2019 14:42

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB117987BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 33.5  | 29.4  | 44.2  |
| 122     | 8.8   | 7.1   | 10.7  |

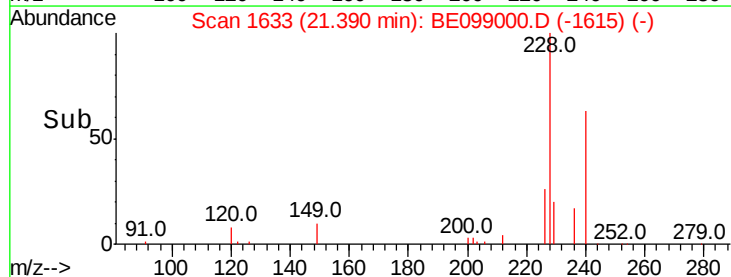
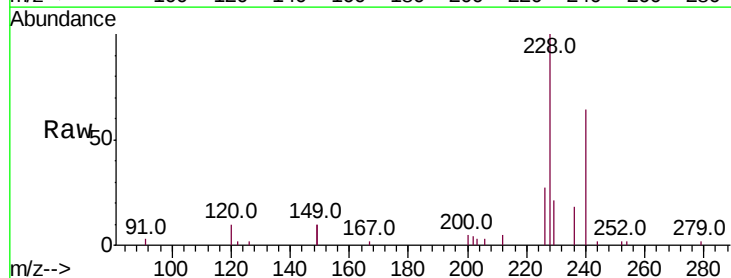
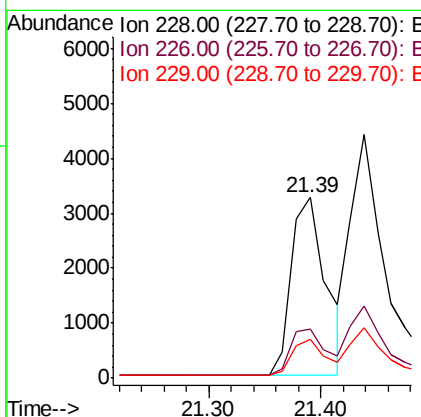
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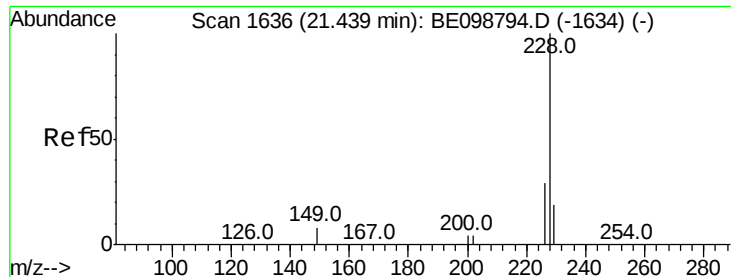
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#30  
 Benzo(a)anthracene  
 Concen: 0.345 ng  
 RT: 21.39 min Scan# 1633  
 Delta R.T. 0.01 min  
 Lab File: BE099000.D  
 Acq: 18 Mar 2019 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.9  | 23.0  | 34.4  |
| 229     | 21.2  | 16.5  | 24.7  |





#31

Chrysene

Concen: 0.392 ng

RT: 21.44 min Scan# 1637

Delta R.T. -0.00 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

Instrument :

BNA\_E

ClientSampleId :

PB117987BSD

Tot Ion:228 Resp: 8446

Ion Ratio Lower Upper

228 100

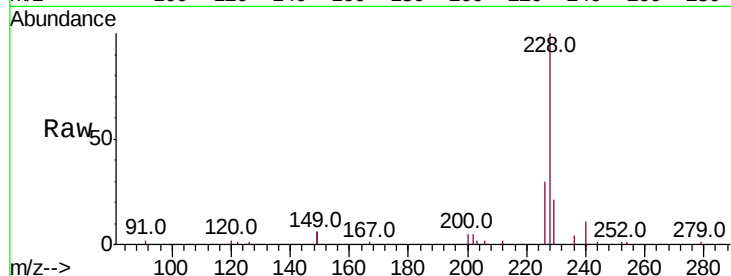
226 29.6 23.7 35.5

229 20.5 16.1 24.1

Manual Integrations  
APPROVED

Sohil

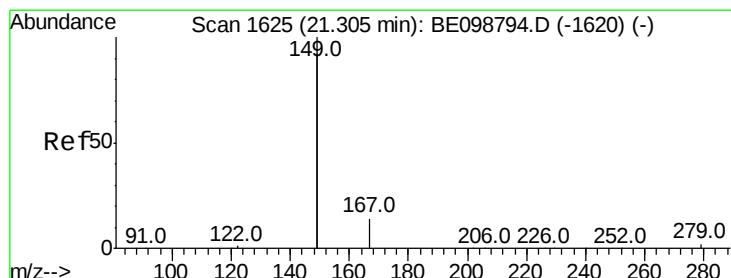
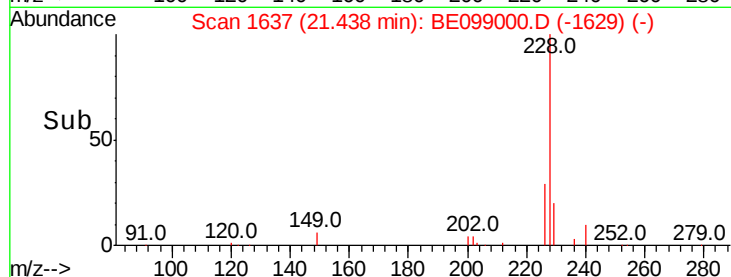
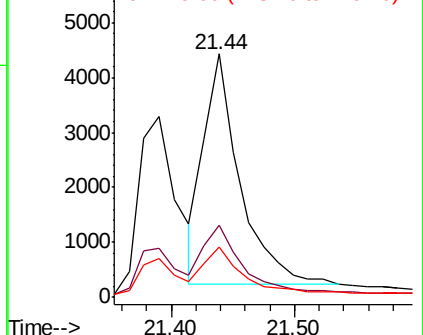
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.302 ng

RT: 21.29 min Scan# 1625

Delta R.T. -0.01 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

Tgt Ion:149 Resp: 12932

Ion Ratio Lower Upper

149 100

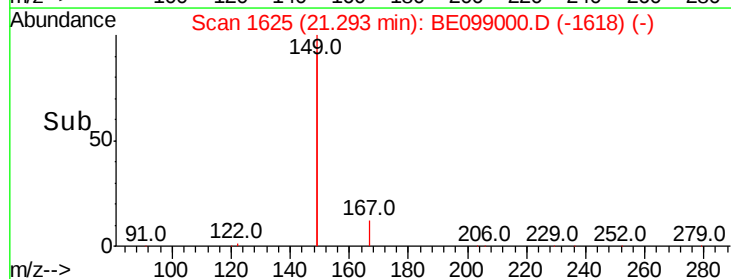
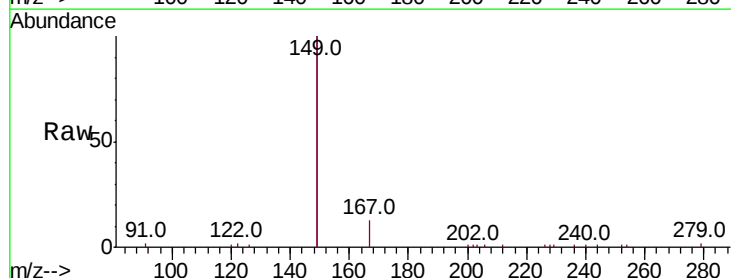
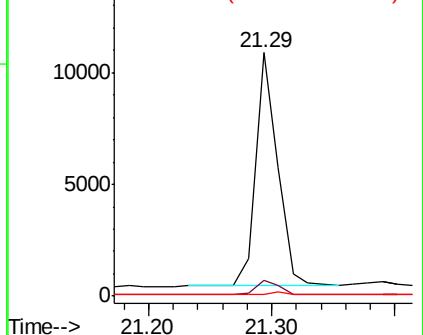
167 6.6 5.4 8.0

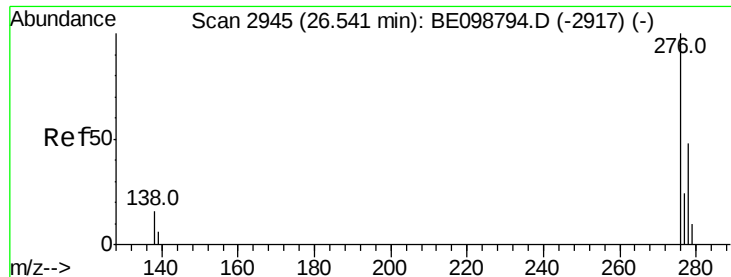
279 1.2 1.0 1.4

Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





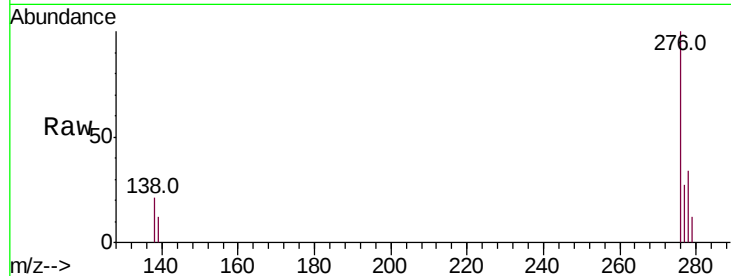
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.319 ng  
RT: 26.55 min Scan# 2948  
Delta R.T. 0.01 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

Instrument :  
BNA\_E  
ClientSampleId :  
PB117987BSD

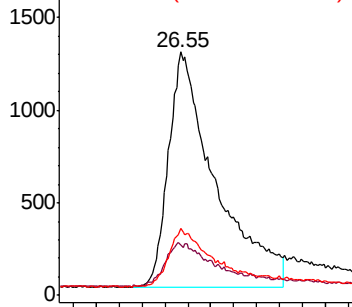
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 6.9   | 13.8  | 20.8# |
| 277     | 20.9  | 19.5  | 29.3  |

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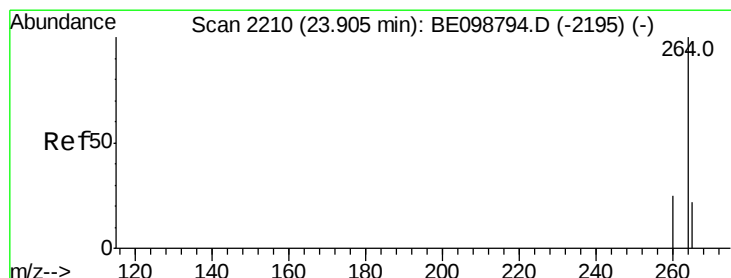
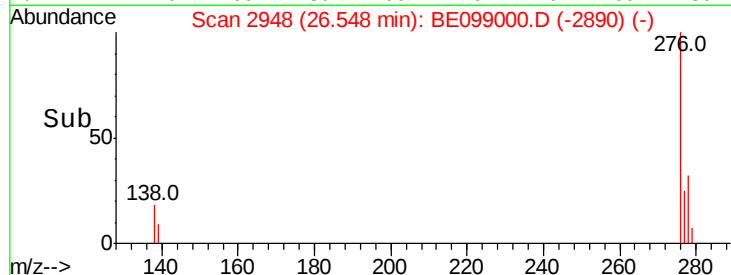
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Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



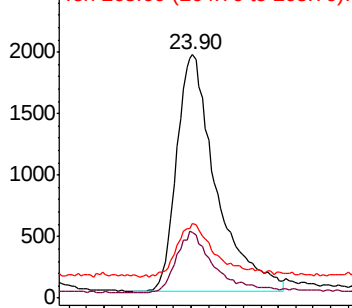
Time-->



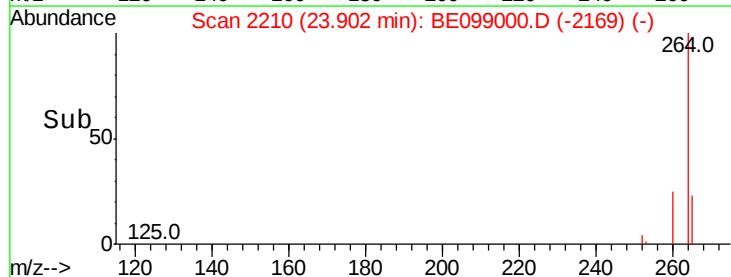
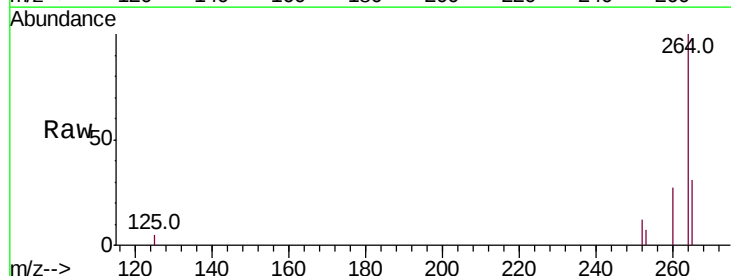
#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.90 min Scan# 2210  
Delta R.T. -0.00 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

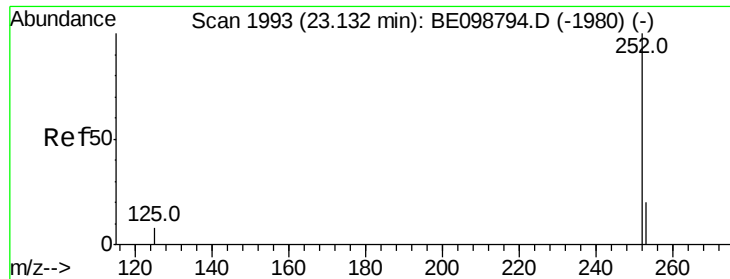
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.9  | 21.2  | 31.8  |
| 265     | 30.8  | 24.6  | 36.8  |

Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



Time-->





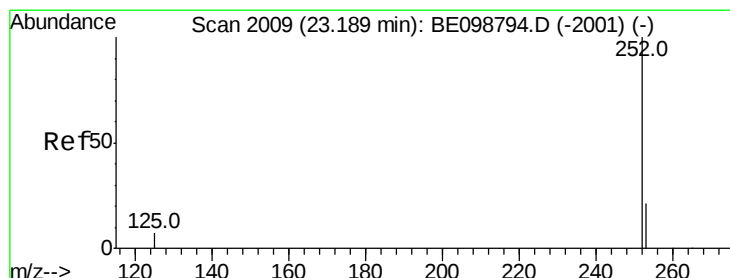
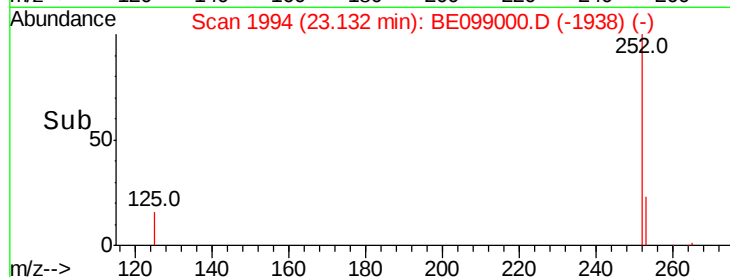
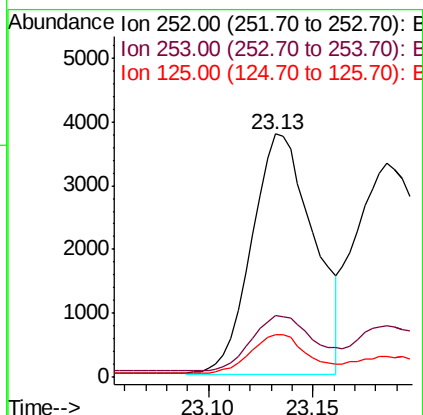
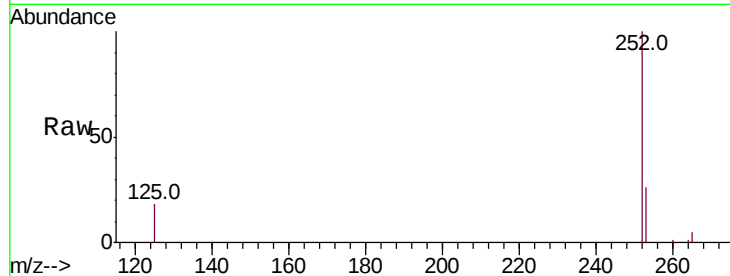
#35  
Benzo(b)fluoranthene  
Concen: 0.384 ng m  
RT: 23.13 min Scan# 1994  
Delta R.T. 0.00 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

Instrument :  
BNA\_E  
ClientSampleId :  
PB117987BSD

Tot Ion:252 Resp: 7675  
Ion Ratio Lower Upper  
252 100  
253 25.5 18.2 27.2  
125 17.6 7.3 10.9#

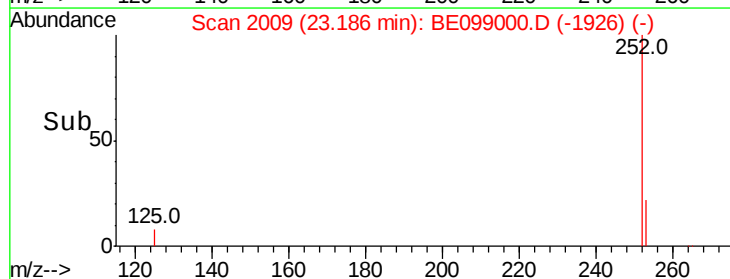
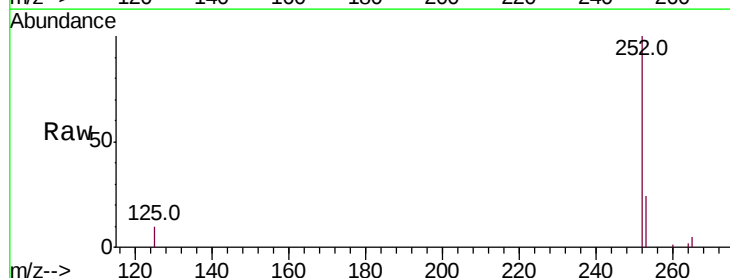
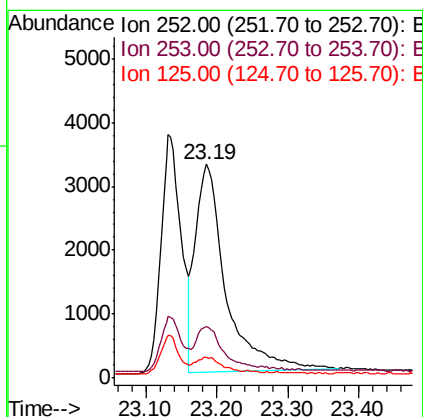
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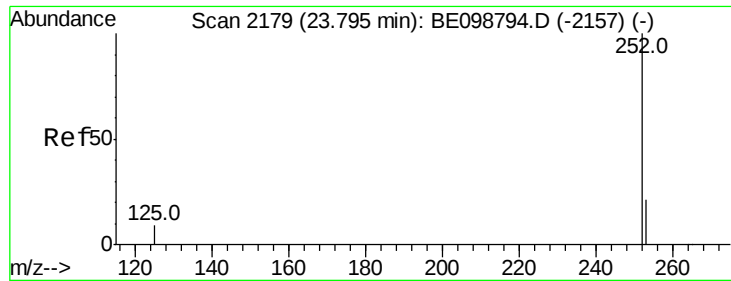
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#36  
Benzo(k)fluoranthene  
Concen: 0.462 ng  
RT: 23.19 min Scan# 2009  
Delta R.T. -0.00 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

Tgt Ion:252 Resp: 9652  
Ion Ratio Lower Upper  
252 100  
253 24.3 19.3 28.9  
125 9.7 7.5 11.3





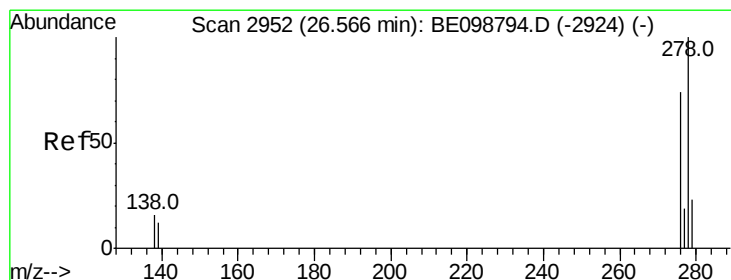
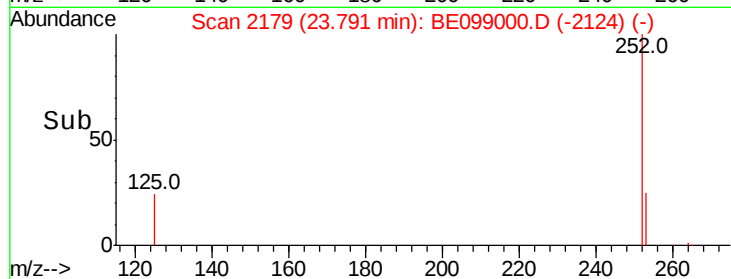
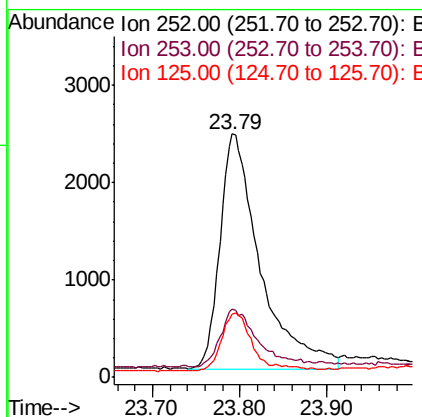
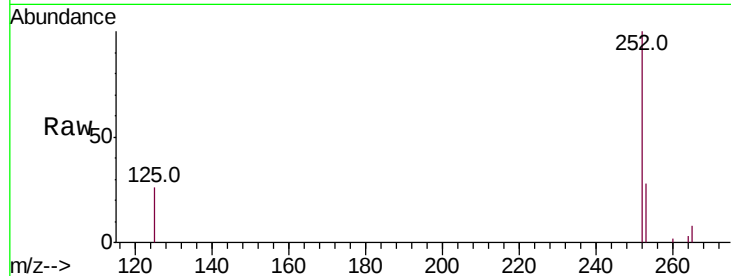
#37  
Benzo(a)pyrene  
Concen: 0.406 ng  
RT: 23.79 min Scan# 2179  
Delta R.T. -0.00 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

Instrument :  
BNA\_E  
ClientSampleId :  
PB117987BSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.1  | 19.9  | 29.9  |
| 125     | 26.1  | 9.0   | 13.4  |

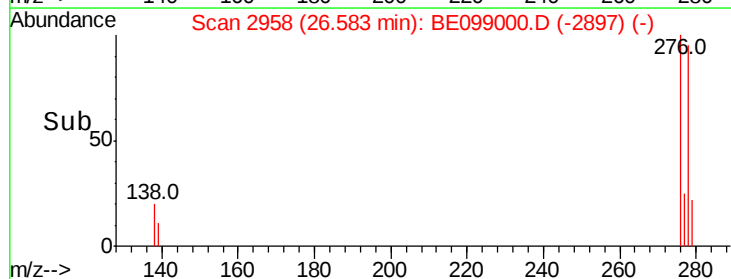
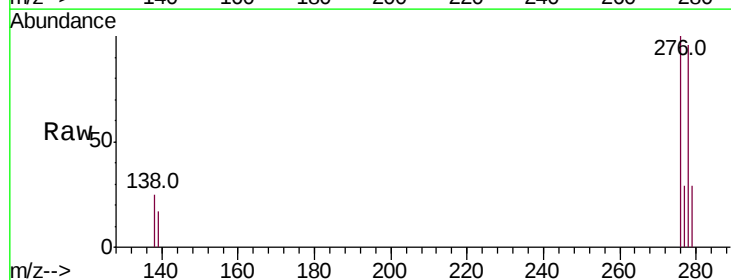
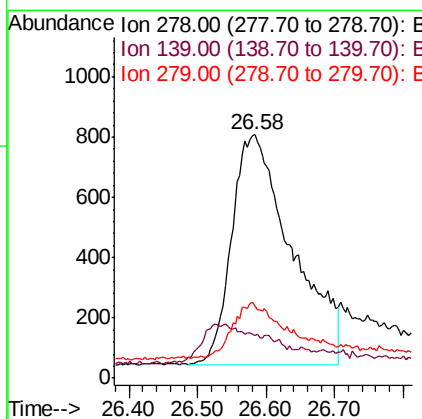
Manual Integrations  
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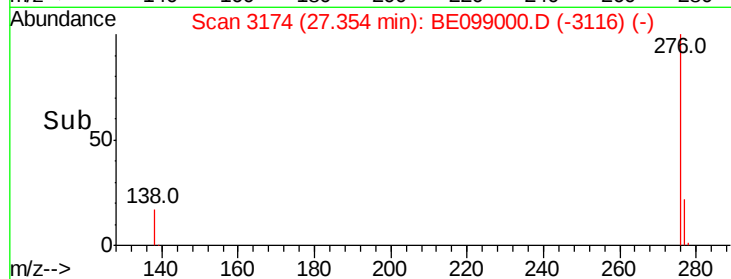
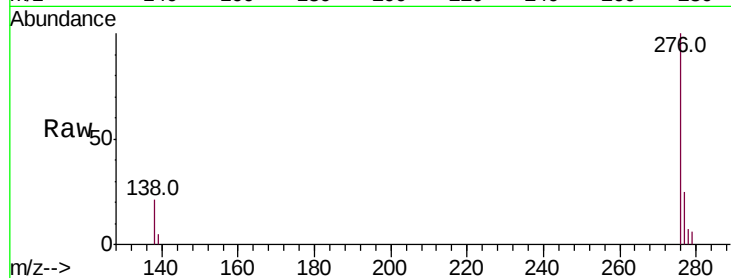
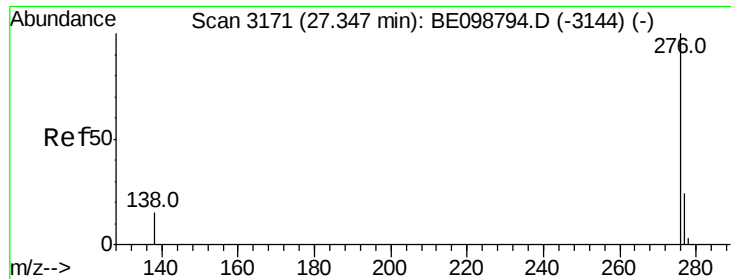
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#38  
Dibenzo(a,h)anthracene  
Concen: 0.257 ng  
RT: 26.58 min Scan# 2958  
Delta R.T. 0.02 min  
Lab File: BE099000.D  
Acq: 18 Mar 2019 14:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.6  | 11.8  | 17.6  |
| 279     | 29.8  | 21.1  | 31.7  |





#39

Benzo(a,h,i)perylene

Concen: 0.304 ng

RT: 27.35 min Scan# 3174

Delta R.T. 0.01 min

Lab File: BE099000.D

Acq: 18 Mar 2019 14:42

Instrument :

BNA\_E

ClientSampleId :

PB117987BSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 5766 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 277       | 25.1  | 20.4  | 30.6 |
| 138       | 20.6  | 13.6  | 20.4 |

Manual Integrations  
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