

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE091718\  
 Data File : BE097512.D  
 Acq On : 18 Sep 2018 1:15  
 Operator : SJ/JU  
 Sample : J4741-35  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 AOC3-01-D

Manual Integrations  
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 9/18/2018 5:56:17 PM

Quant Time: Sep 18 07:07:33 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE091718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 17 18:57:11 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)   |
|--------------------------------|-------|------|----------|-------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4      | 7.38  | 152  | 959      | 0.40  | ng    | 0.00       |
| 7) Naphthalene-d8              | 10.13 | 136  | 4485     | 0.40  | ng    | 0.00       |
| 13) Acenaphthene-d10           | 14.00 | 164  | 2636     | 0.40  | ng    | 0.00       |
| 19) Phenanthrene-d10           | 16.75 | 188  | 7463     | 0.40  | ng    | -0.01      |
| 27) Chrysene-d12               | 20.97 | 240  | 9014     | 0.40  | ng    | 0.00       |
| 34) Perylene-d12               | 23.20 | 264  | 9107     | 0.40  | ng    | 0.00       |
| System Monitoring Compounds    |       |      |          |       |       |            |
| 4) 2-Fluorophenol              | 5.05  | 112  | 730      | 0.22  | ng    | 0.00       |
| 5) Phenol-d6                   | 6.61  | 99   | 565m     | 0.14  | ng    | 0.00       |
| 8) Nitrobenzene-d5             | 8.52  | 82   | 1652     | 0.46  | ng    | -0.01      |
| 11) 2-Methylnaphthalene-d10    | 11.71 | 152  | 3090     | 0.48  | ng    | 0.00       |
| 14) 2,4,6-Tribromophenol       | 15.51 | 330  | 680      | 0.49  | ng    | -0.02      |
| 15) 2-Fluorobiphenyl           | 12.62 | 172  | 5121     | 0.56  | ng    | 0.00       |
| 25) Fluoranthene-d10           | 18.80 | 212  | 46530    | 0.52  | ng    | 0.00       |
| 29) Terphenyl-d14              | 19.41 | 244  | 9272     | 0.54  | ng    | 0.00       |
| Target Compounds               |       |      |          |       |       |            |
| 9) Naphthalene                 | 10.17 | 128  | 25691    | 0.631 | ng    | Qvalue 100 |
| 12) 2-Methylnaphthalene        | 11.79 | 142  | 2605     | 0.400 | ng    | 100        |
| 17) Acenaphthene               | 14.06 | 154  | 1803     | 0.255 | ng    | 97         |
| 18) Fluorene                   | 15.06 | 166  | 2179     | 0.241 | ng    | # 79       |
| 23) Phenanthrene               | 16.80 | 178  | 4764     | 0.271 | ng    | 99         |
| 24) Anthracene                 | 16.89 | 178  | 640      | 0.039 | ng    | 96         |
| 26) Fluoranthene               | 18.83 | 202  | 1226     | 0.054 | ng    | 95         |
| 28) Pyrene                     | 19.19 | 202  | 985      | 0.042 | ng    | # 93       |
| 32) Bis(2-ethylhexyl)phthalate | 20.91 | 149  | 8460     | 0.168 | ng    | # 99       |

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

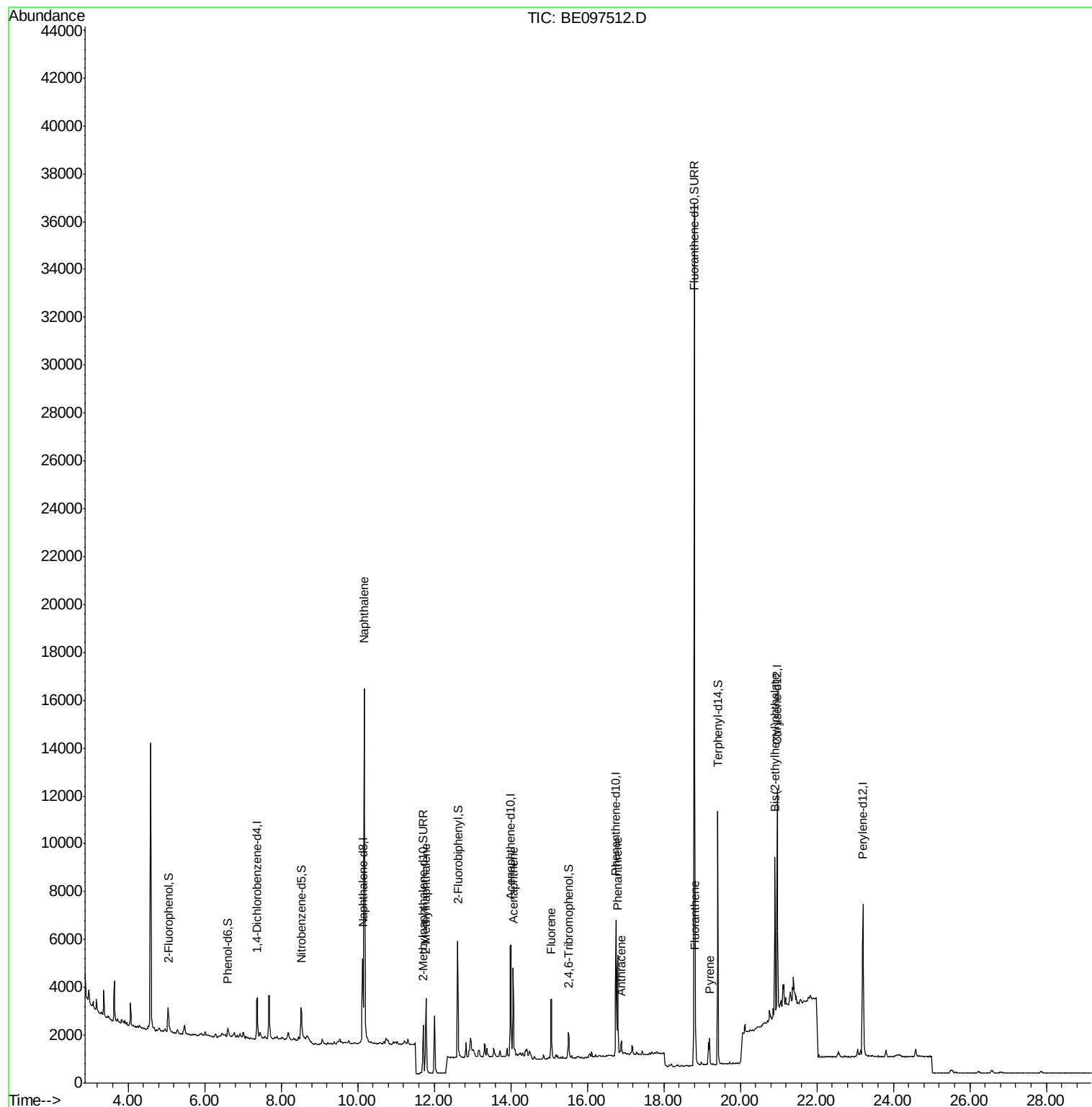
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE091718\  
Data File : BE097512.D  
Acq On : 18 Sep 2018 1:15  
Operator : SJ/JU  
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ALS Vial : 17 Sample Multiplier: 1

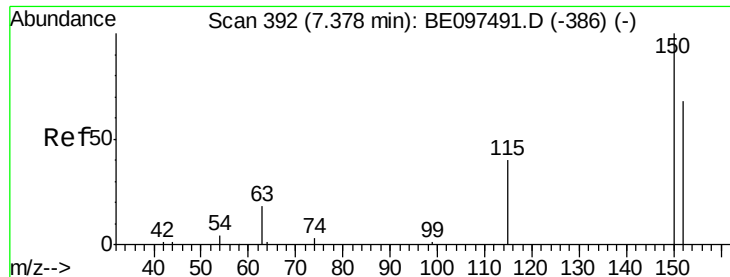
Instrument :  
BNA\_E  
ClientSampleId :  
AOC3-01-D

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Quant Time: Sep 18 07:07:33 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE091718.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Sep 17 18:57:11 2018  
Response via : Initial Calibration





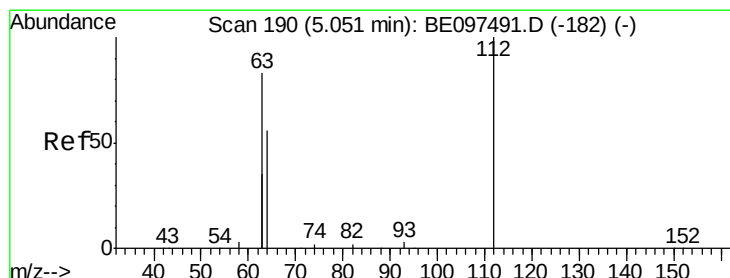
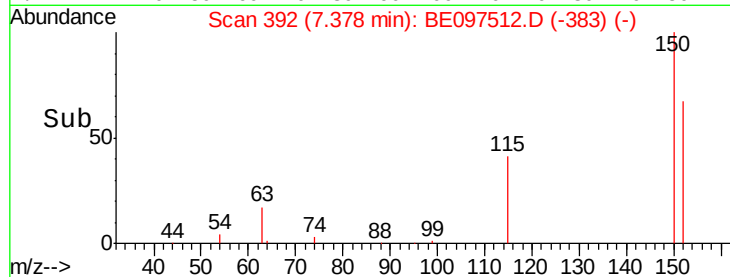
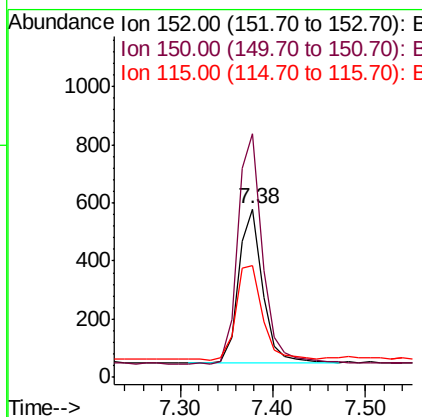
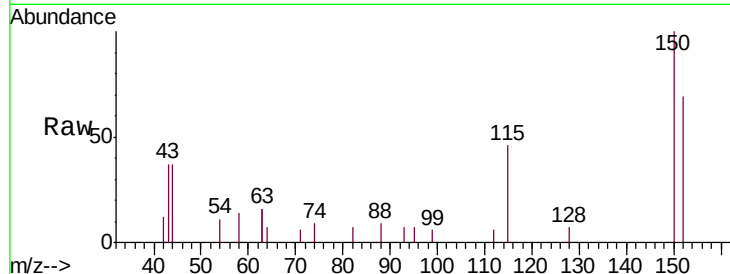
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.38 min Scan# 392  
 Delta R.T. 0.00 min  
 Lab File: BE097512.D  
 Acq: 18 Sep 2018 1:15

Instrument :  
 BNA\_E  
 ClientSampleID :  
 AOC3-01-D

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 959   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 150       | 144.8 | 117.2 | 175.8 |
| 115       | 66.4  | 57.0  | 85.6  |

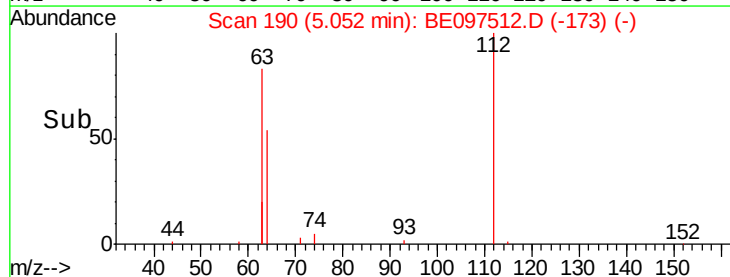
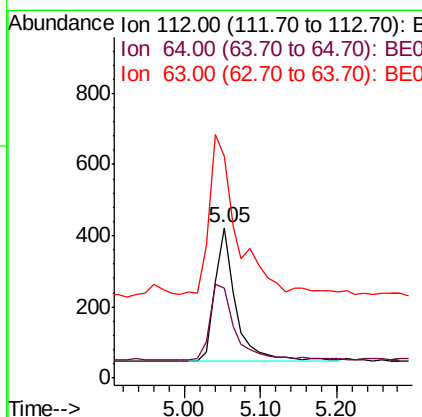
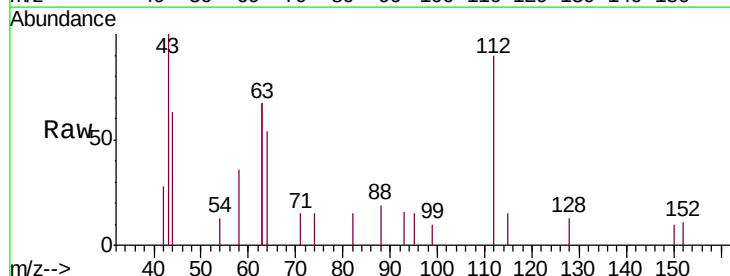
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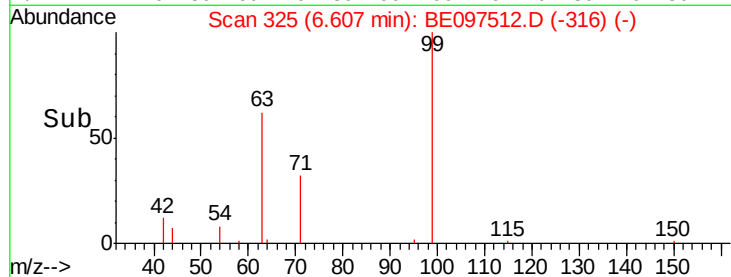
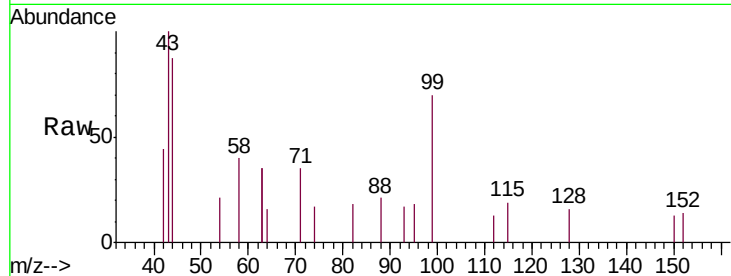
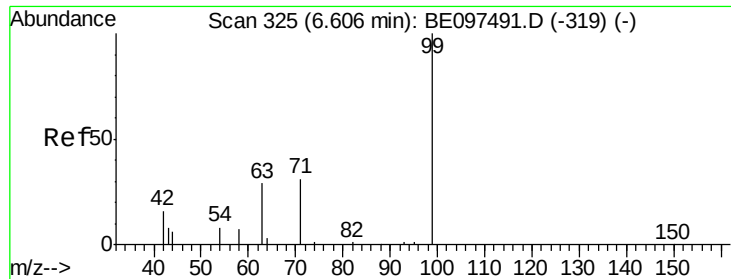
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#4  
 2-Fluorophenol  
 Concen: 0.225 ng  
 RT: 5.05 min Scan# 190  
 Delta R.T. 0.00 min  
 Lab File: BE097512.D  
 Acq: 18 Sep 2018 1:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 112   | Resp: | 730   |
| Ion Ratio | Lower | Upper |       |
| 112       | 100   |       |       |
| 64        | 67.0  | 60.1  | 90.1  |
| 63        | 158.2 | 116.8 | 175.2 |





#5

Phenol-d6

Concen: 0.137 ng m

RT: 6.61 min Scan# 325

Delta R.T. 0.00 min

Lab File: BE097512.D

Acq: 18 Sep 2018 1:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 99    | Resp: | 565   |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 13.6  | 20.2  | 30.2# |
| 71        | 29.0  | 28.4  | 42.6  |

Instrument :

BNA\_E

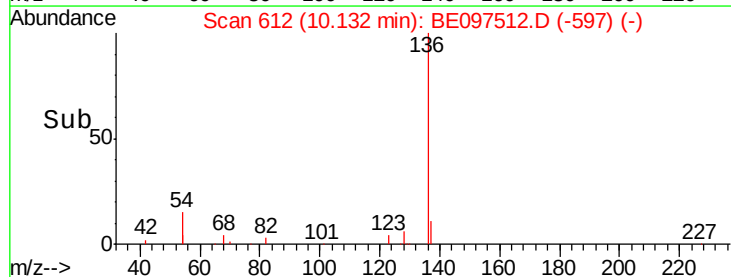
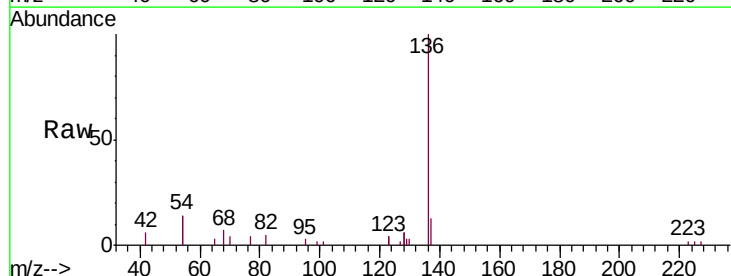
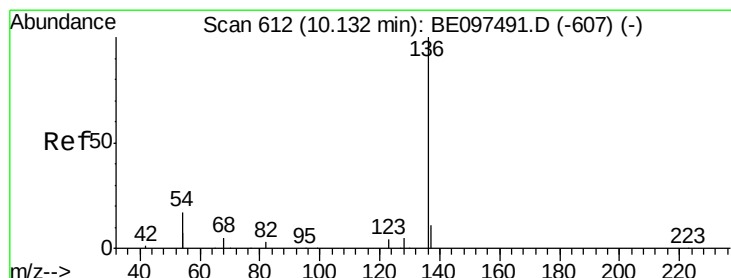
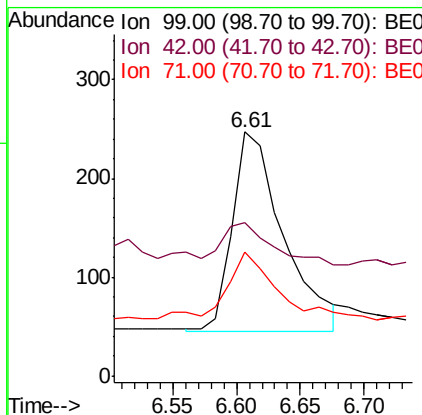
ClientSampled :

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#7

Naphthalene-d8

Concen: 0.400 ng

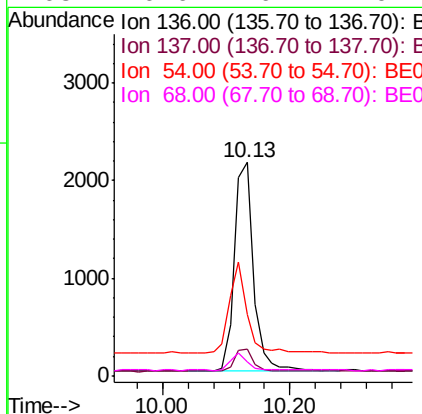
RT: 10.13 min Scan# 612

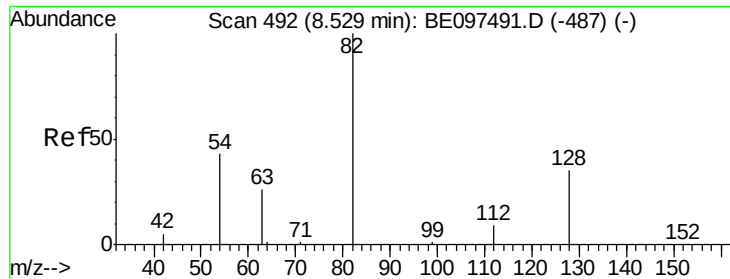
Delta R.T. -0.00 min

Lab File: BE097512.D

Acq: 18 Sep 2018 1:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 4485  |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 12.7  | 9.5   | 14.3  |
| 54        | 28.7  | 29.1  | 43.7# |
| 68        | 6.6   | 6.2   | 9.2   |





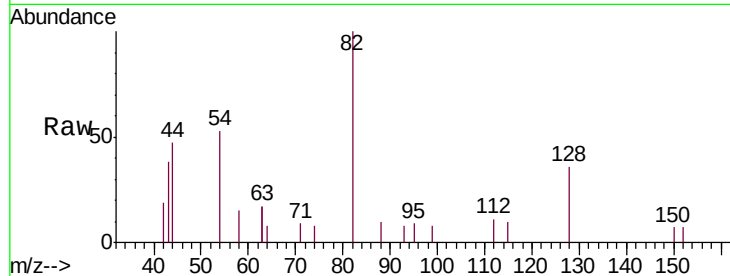
#8  
 Nitrobenzene-d5  
 Concen: 0.458 ng  
 RT: 8.52 min Scan# 491  
 Delta R.T. -0.01 min  
 Lab File: BE097512.D  
 Acq: 18 Sep 2018 1:15

Instrument :  
 BNA\_E  
 ClientSampleID :  
 AOC3-01-D

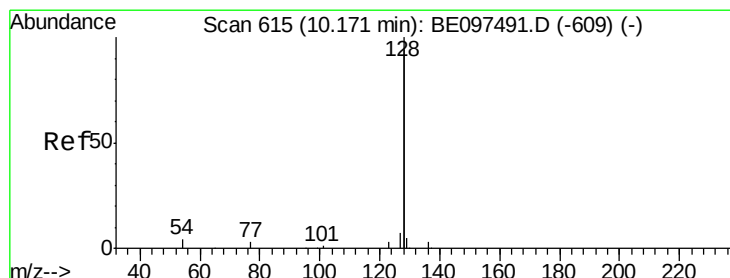
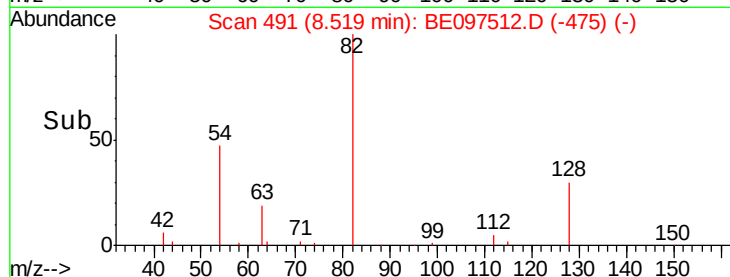
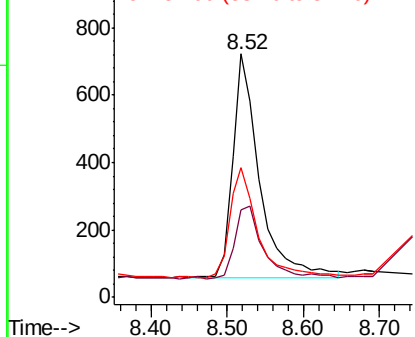
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1652  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 35.7  | 24.0  | 36.0  |
| 54       | 53.3  | 40.0  | 60.0  |

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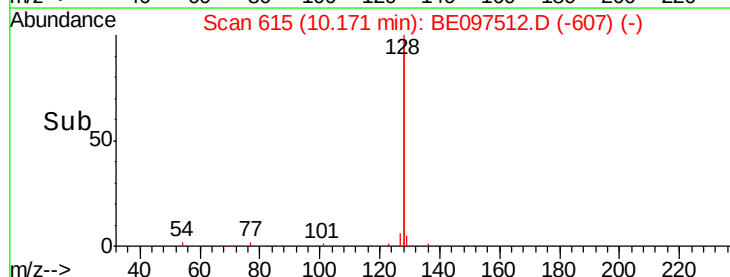
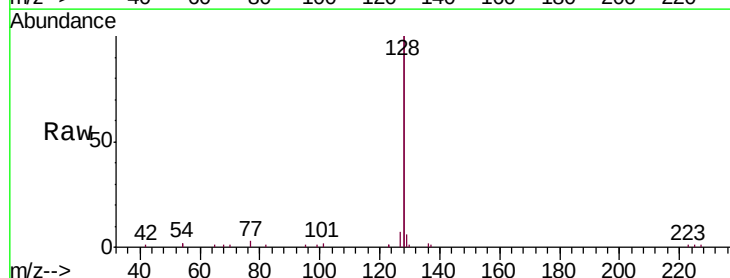
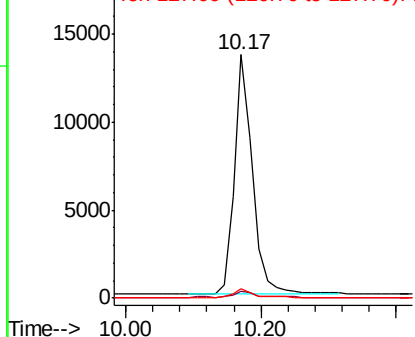
Abundance Ion 82.00 (81.70 to 82.70): BE0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BE0

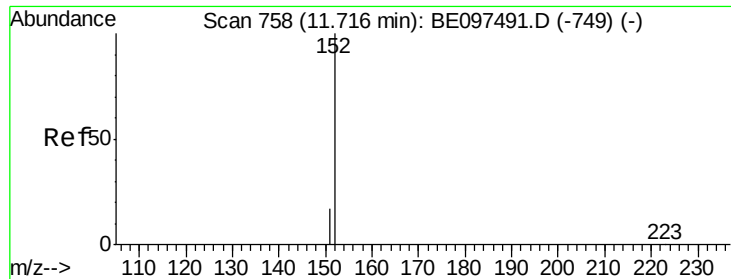


#9  
 Naphthalene  
 Concen: 0.631 ng  
 RT: 10.17 min Scan# 615  
 Delta R.T. -0.00 min  
 Lab File: BE097512.D  
 Acq: 18 Sep 2018 1:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 25691 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 3.0   | 2.6   | 3.8   |
| 127      | 3.6   | 2.8   | 4.2   |

Abundance Ion 128.00 (127.70 to 128.70): E  
 Ion 129.00 (128.70 to 129.70): E  
 Ion 127.00 (126.70 to 127.70): E





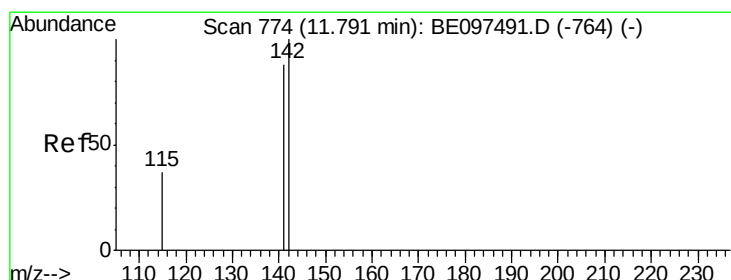
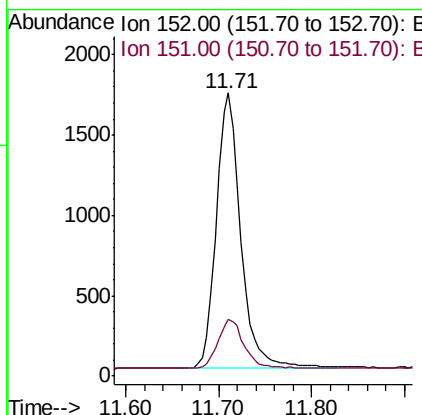
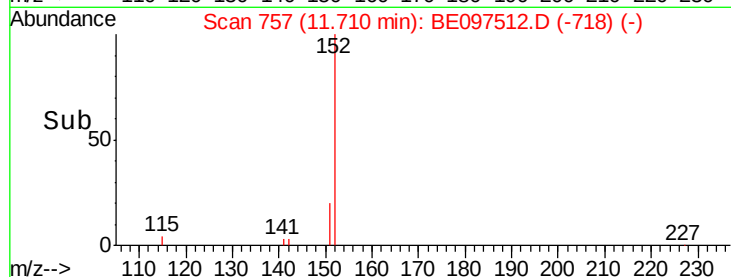
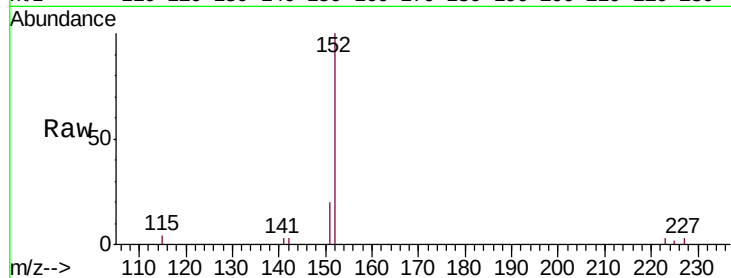
#11  
2-Methylnaphthalene-d10  
Concen: 0.482 ng  
RT: 11.71 min Scan# 757  
Delta R.T. -0.01 min  
Lab File: BE097512.D  
Acq: 18 Sep 2018 1:15

Instrument :  
BNA\_E  
ClientSampleId :  
AOC3-01-D

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 152     | 100   | 3090 |       |       |
| 151     | 19.1  | 15.4 | 23.0  |       |

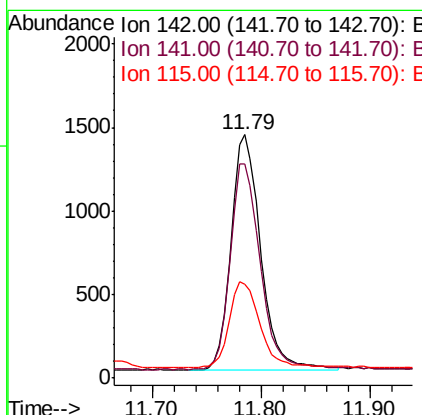
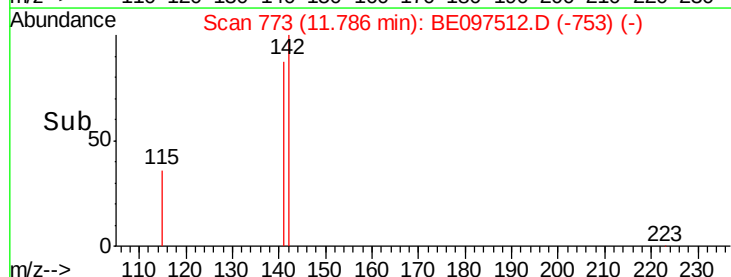
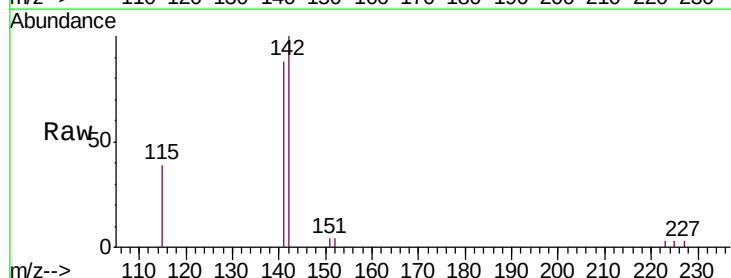
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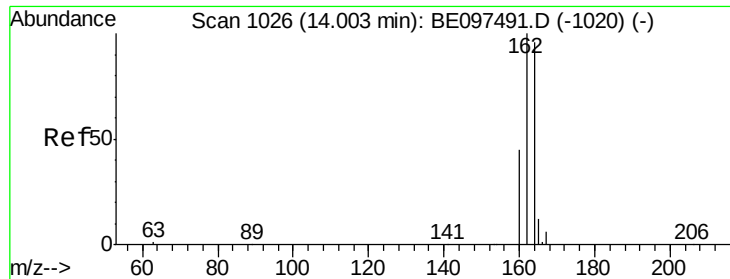
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#12  
2-Methylnaphthalene  
Concen: 0.400 ng  
RT: 11.79 min Scan# 773  
Delta R.T. -0.01 min  
Lab File: BE097512.D  
Acq: 18 Sep 2018 1:15

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 142     | 100   | 2605 |       |       |
| 141     | 88.0  | 70.4 | 105.6 |       |
| 115     | 38.7  | 31.7 | 47.5  |       |





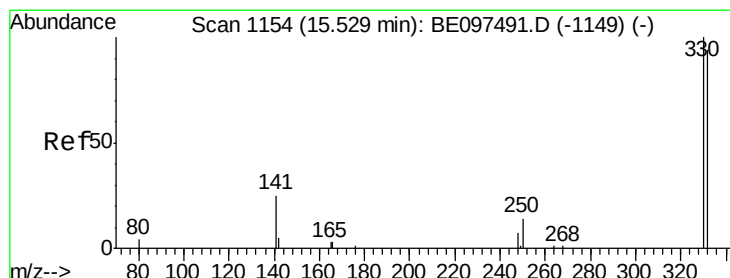
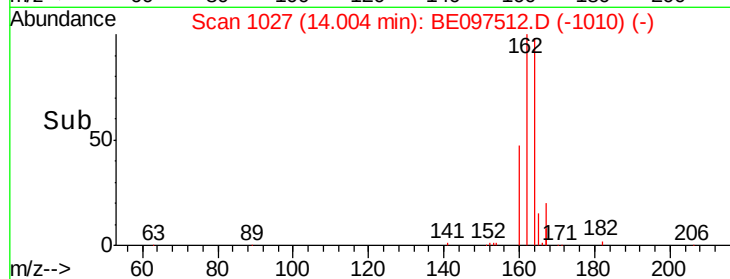
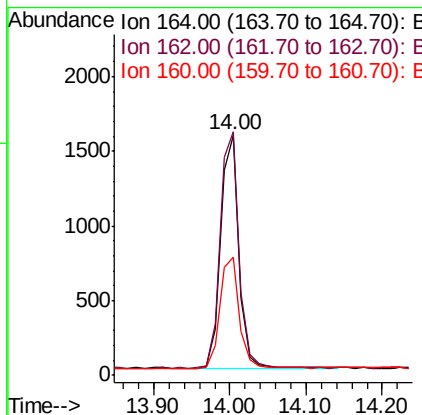
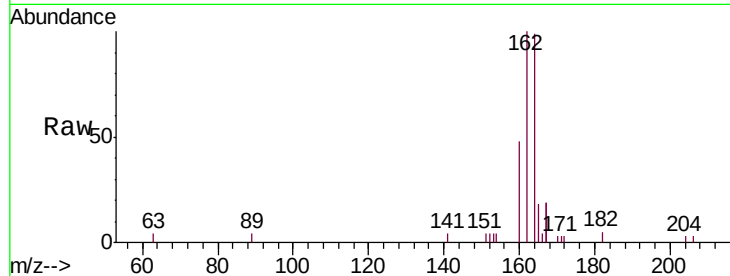
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.00 min Scan# 1027  
 Delta R.T. 0.00 min  
 Lab File: BE097512.D  
 Acq: 18 Sep 2018 1:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 AOC3-01-D

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.4 | 83.1  | 124.7 |
| 160     | 49.1  | 37.1  | 55.7  |

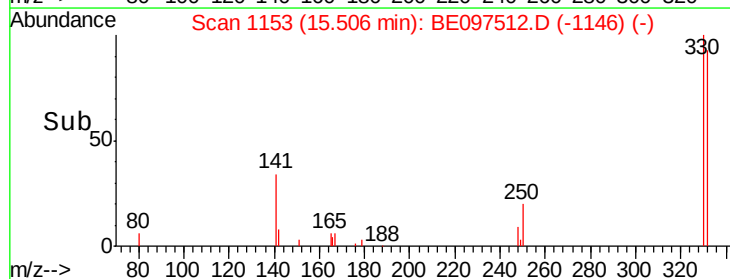
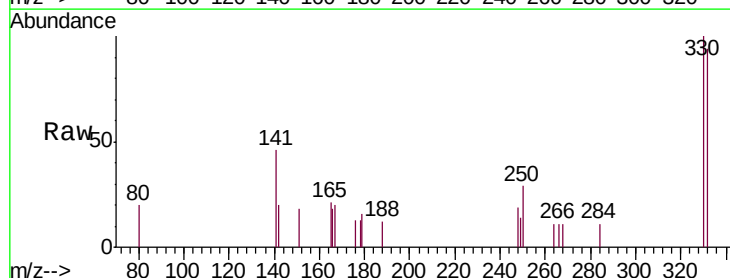
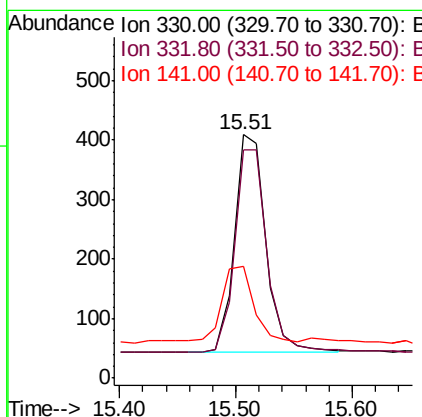
Manual Integrations  
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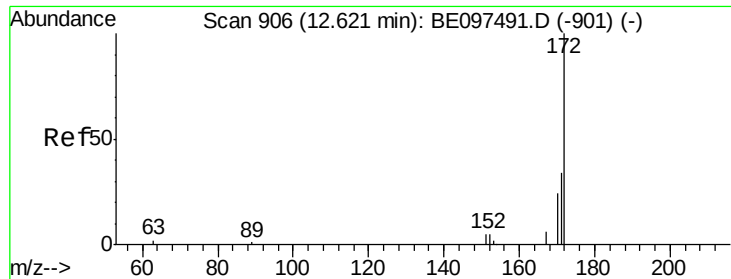
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#14  
 2,4,6-Tribromophenol  
 Concen: 0.488 ng  
 RT: 15.51 min Scan# 1153  
 Delta R.T. -0.02 min  
 Lab File: BE097512.D  
 Acq: 18 Sep 2018 1:15

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 330     | 100   |       |        |
| 332     | 96.9  | 152.7 | 229.1# |
| 141     | 34.1  | 33.7  | 50.5   |





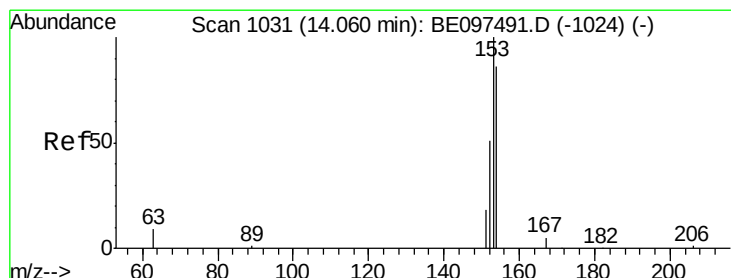
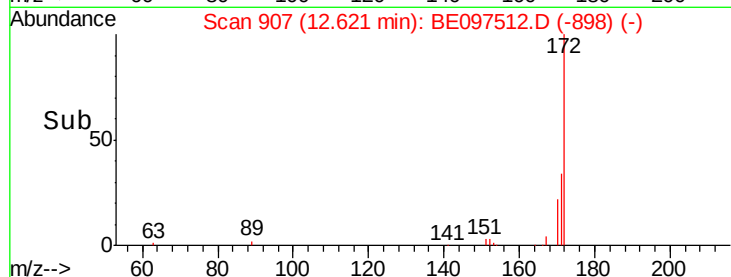
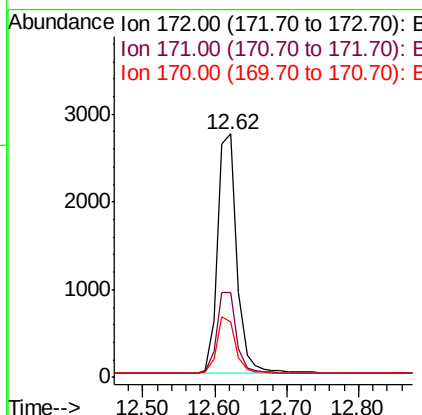
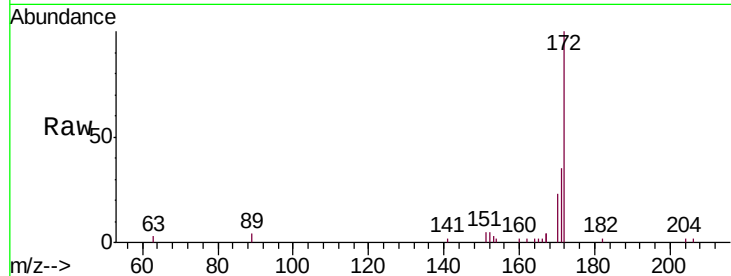
#15  
2-Fluorobiphenyl  
Concen: 0.556 ng  
RT: 12.62 min Scan# 907  
Delta R.T. 0.00 min  
Lab File: BE097512.D  
Acq: 18 Sep 2018 1:15

Instrument :  
BNA\_E  
ClientSampleId :  
AOC3-01-D

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.9  | 29.9  | 44.9  |
| 170     | 22.9  | 21.8  | 32.8  |

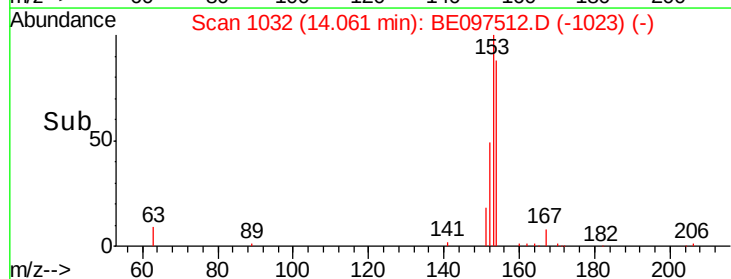
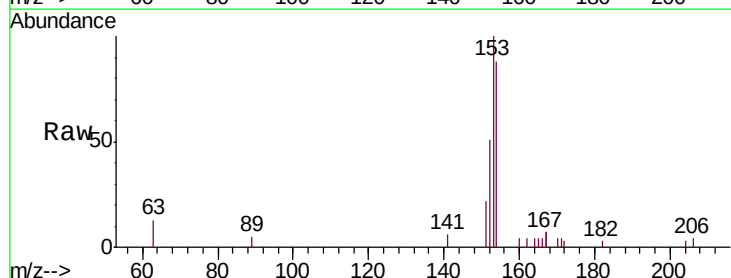
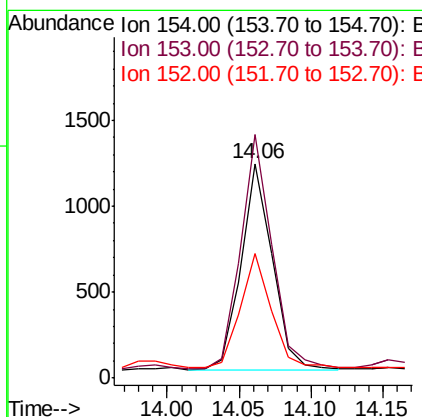
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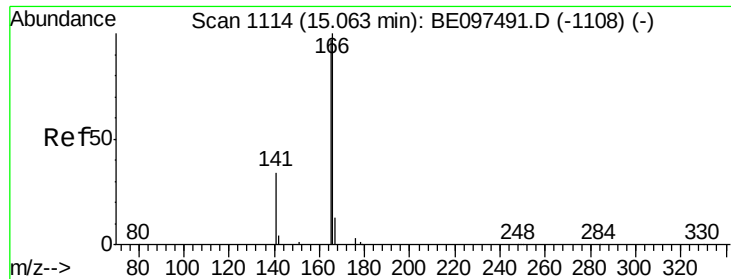


#17  
Acenaphthene  
Concen: 0.255 ng  
RT: 14.06 min Scan# 1032  
Delta R.T. 0.00 min  
Lab File: BE097512.D  
Acq: 18 Sep 2018 1:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 113.4 | 89.2  | 133.8 |
| 152     | 55.5  | 42.0  | 63.0  |







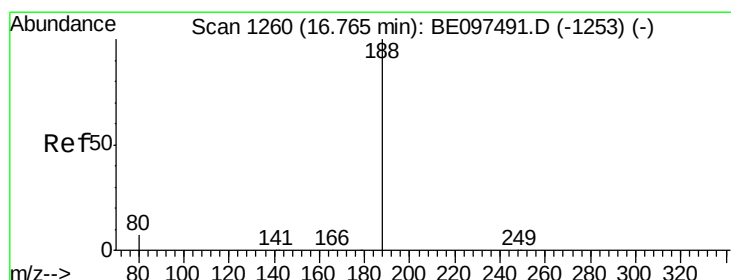
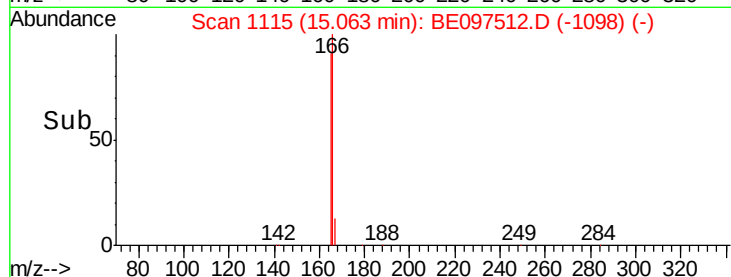
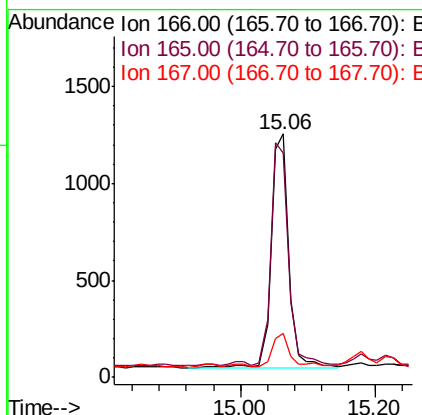
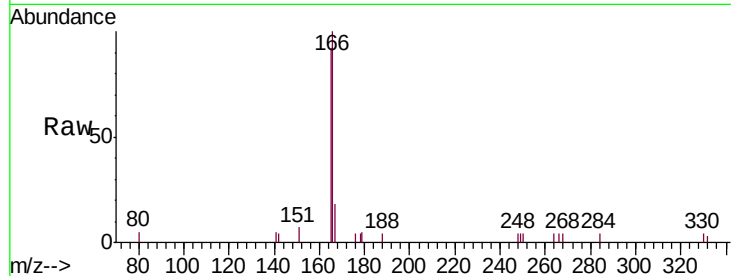
#18  
 Fluorene  
 Concen: 0.241 ng  
 RT: 15.06 min Scan# 1115  
 Delta R.T. 0.00 min  
 Lab File: BE097512.D  
 Acq: 18 Sep 2018 1:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 AOC3-01-D

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 166     | 100   | 2179 |       |       |
| 165     | 94.1  | 77.8 | 116.6 |       |
| 167     | 14.5  | 42.4 | 63.6# |       |

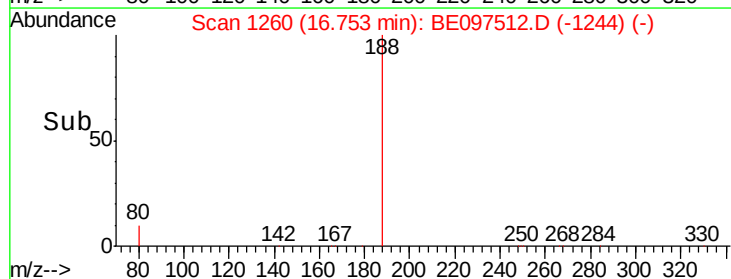
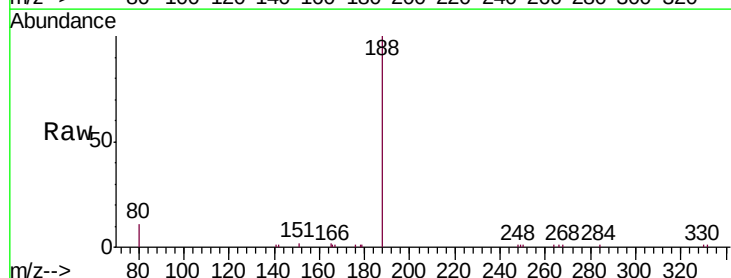
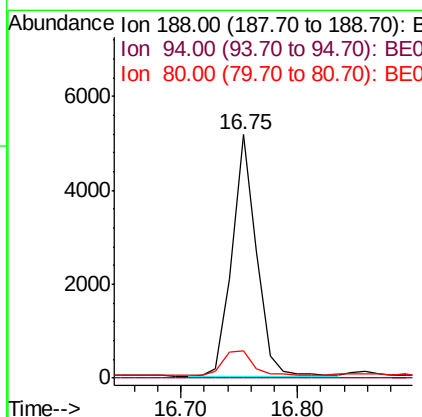
Manual Integrations  
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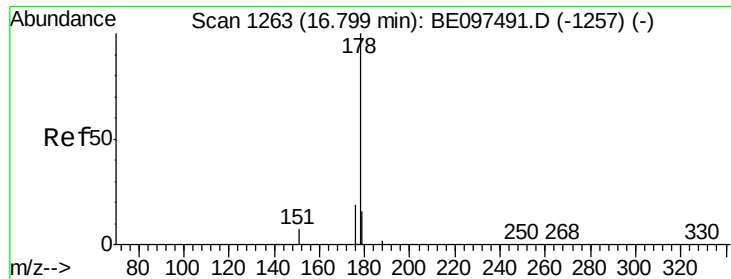
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#19  
 Phenanthrene-d10  
 Concen: 0.400 ng  
 RT: 16.75 min Scan# 1260  
 Delta R.T. -0.01 min  
 Lab File: BE097512.D  
 Acq: 18 Sep 2018 1:15

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 188     | 100   | 7463 |       |       |
| 94      | 0.0   | 3.9  | 5.9#  |       |
| 80      | 11.4  | 3.6  | 5.4#  |       |





#23

Phenanthrene

Concen: 0.271 ng

RT: 16.80 min Scan# 1264

Delta R.T. 0.00 min

Lab File: BE097512.D

Acq: 18 Sep 2018 1:15

Instrument :

BNA\_E

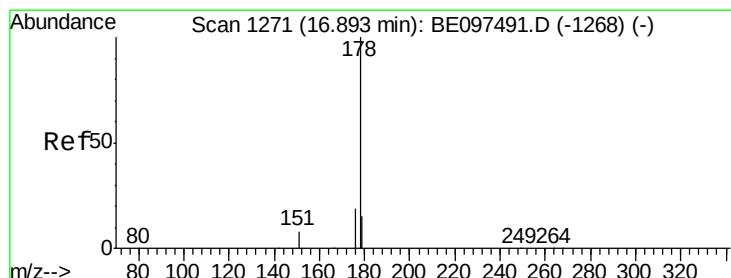
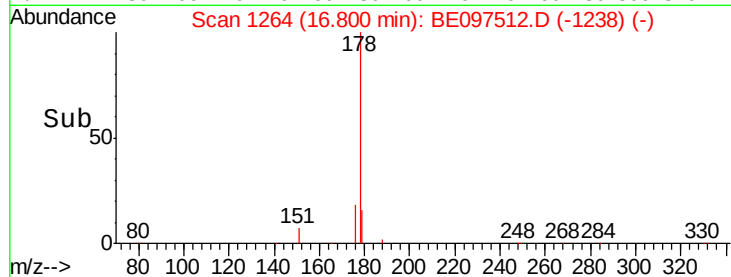
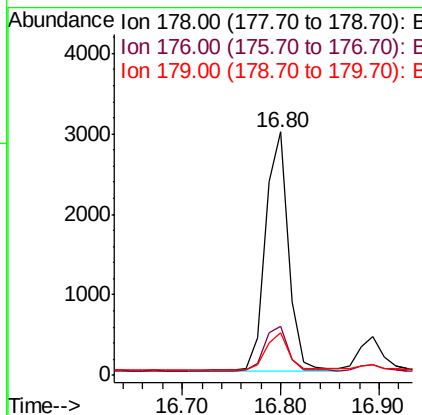
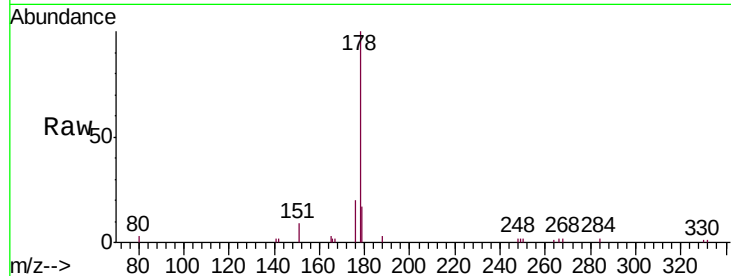
ClientSampleId :

AOC3-01-D

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 4764 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 19.3  | 15.1  | 22.7 |
| 179       | 15.6  | 11.8  | 17.6 |

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#24

Anthracene

Concen: 0.039 ng

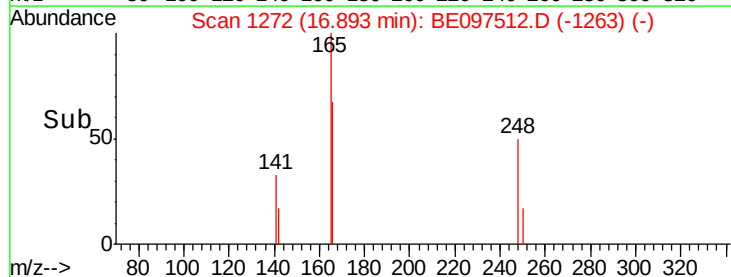
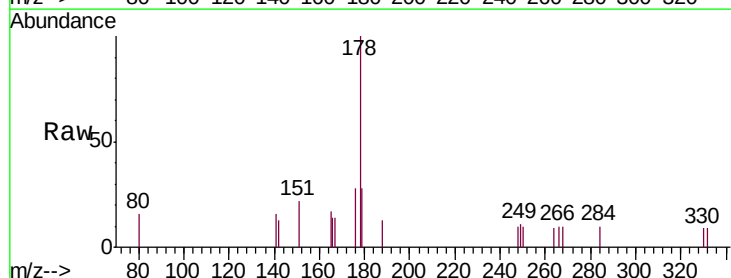
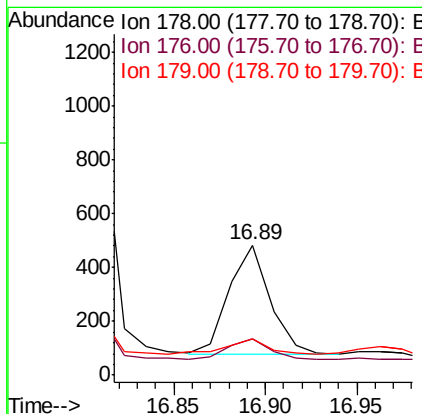
RT: 16.89 min Scan# 1272

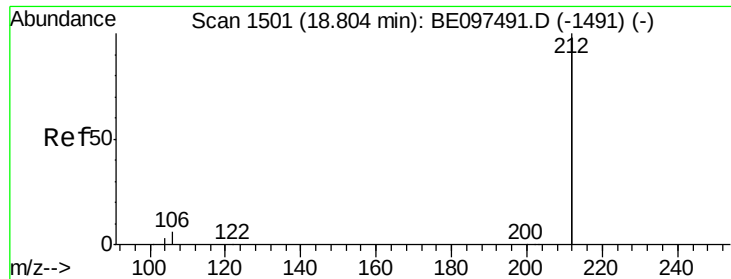
Delta R.T. 0.00 min

Lab File: BE097512.D

Acq: 18 Sep 2018 1:15

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 640  |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 18.8  | 12.8  | 19.2 |
| 179       | 15.3  | 13.0  | 19.6 |





#25

Fluoranthene-d10

Concen: 0.519 ng

RT: 18.80 min Scan# 1501

Delta R.T. -0.01 min

Lab File: BE097512.D

Acq: 18 Sep 2018 1:15

Instrument :

BNA\_E

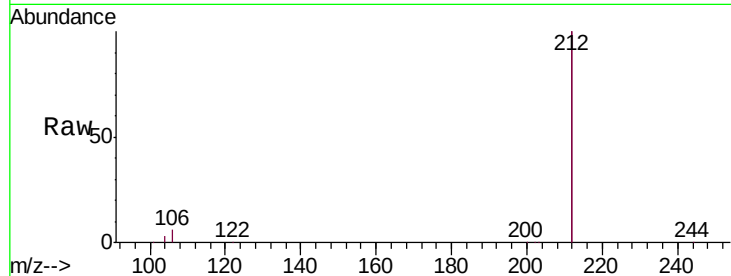
ClientSampleId :

AOC3-01-D

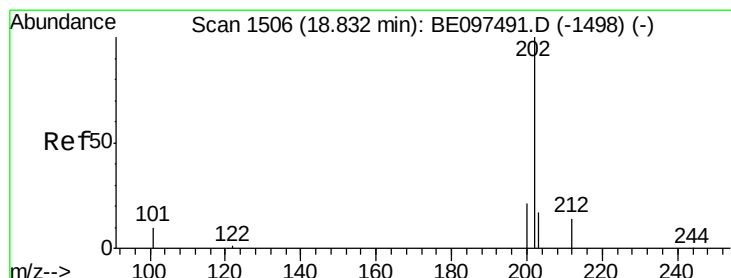
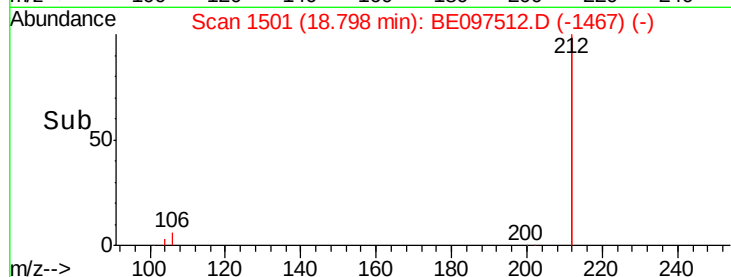
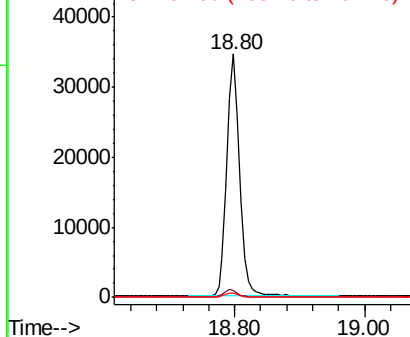
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 212   | Resp: | 46530 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 3.2   | 2.8   | 4.2   |
| 104       | 1.7   | 1.6   | 2.4   |

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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: 0.054 ng

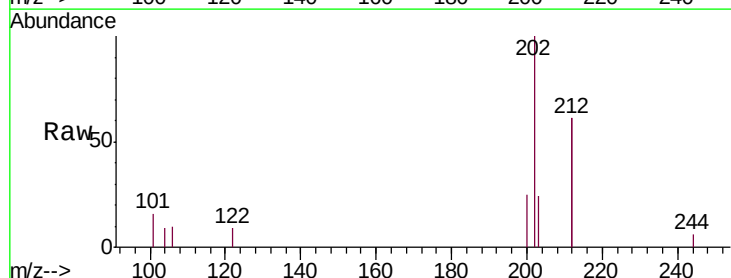
RT: 18.83 min Scan# 1506

Delta R.T. -0.01 min

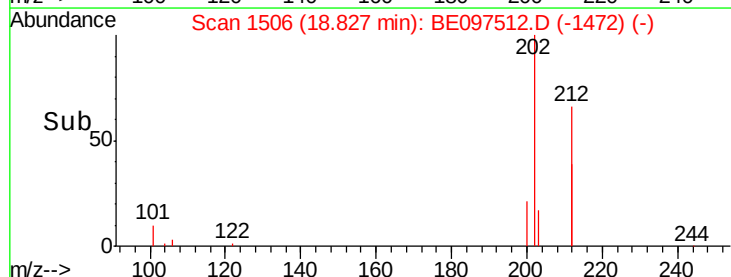
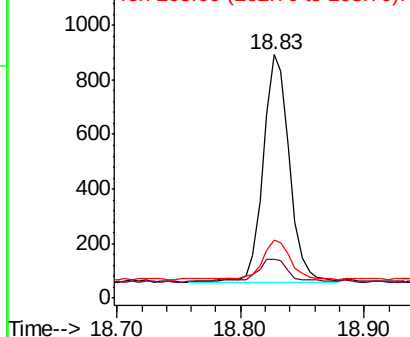
Lab File: BE097512.D

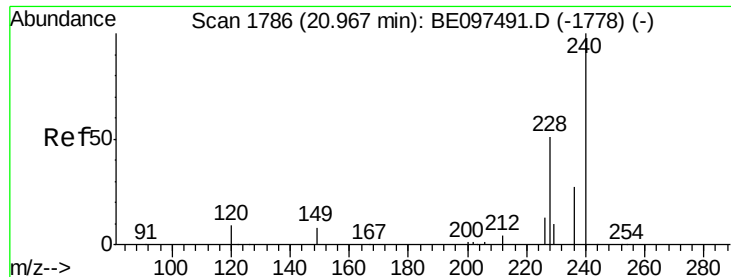
Acq: 18 Sep 2018 1:15

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 1226 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 10.4  | 9.8   | 14.8 |
| 203       | 19.0  | 13.7  | 20.5 |



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





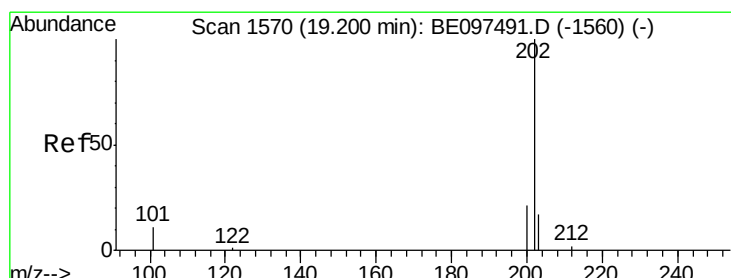
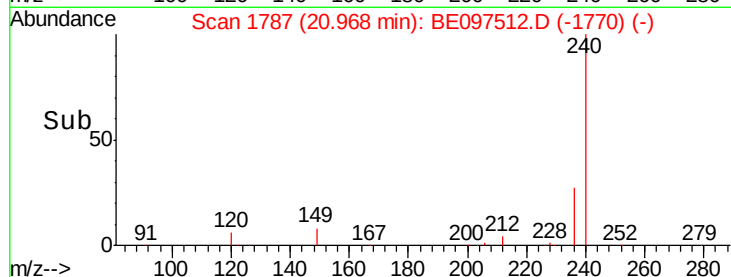
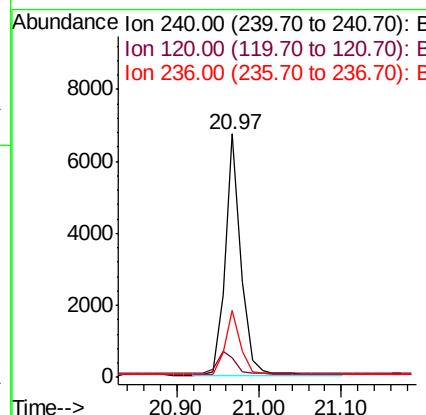
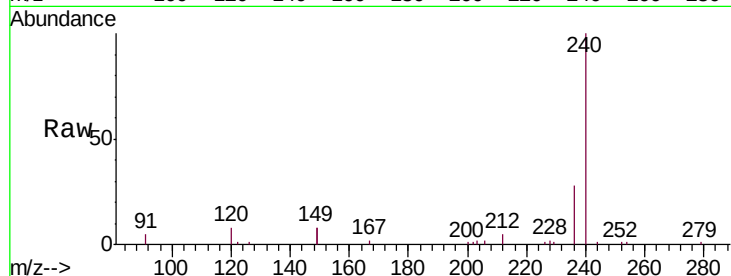
#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 20.97 min Scan# 1787  
 Delta R.T. 0.00 min  
 Lab File: BE097512.D  
 Acq: 18 Sep 2018 1:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 AOC3-01-D

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 8.0   | 5.5   | 8.3   |
| 236     | 27.6  | 20.7  | 31.1  |

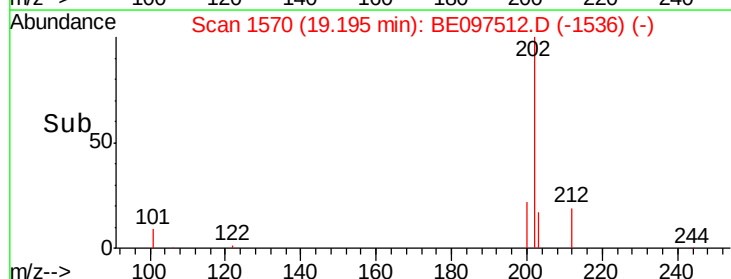
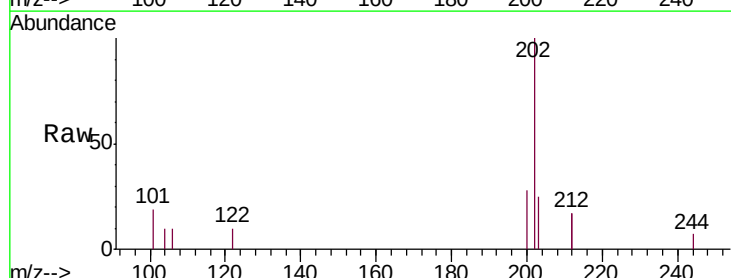
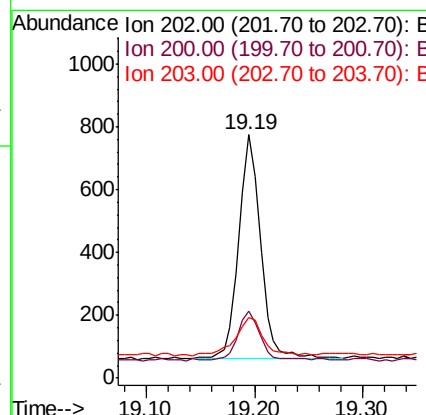
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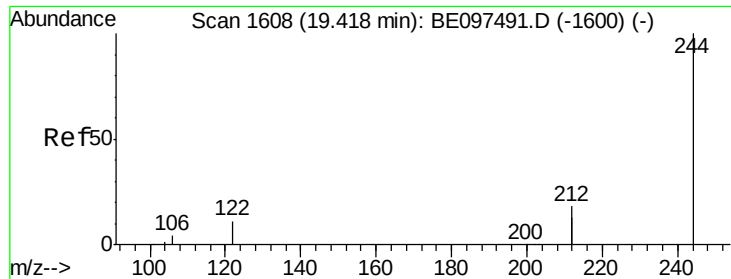
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#28  
 Pyrene  
 Concen: 0.042 ng  
 RT: 19.19 min Scan# 1570  
 Delta R.T. -0.01 min  
 Lab File: BE097512.D  
 Acq: 18 Sep 2018 1:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.9  | 16.6  | 25.0  |
| 203     | 21.6  | 13.8  | 20.8  |





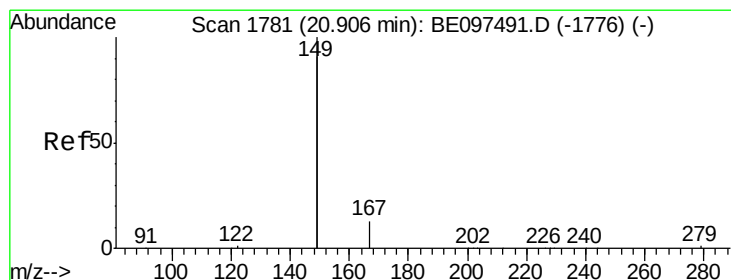
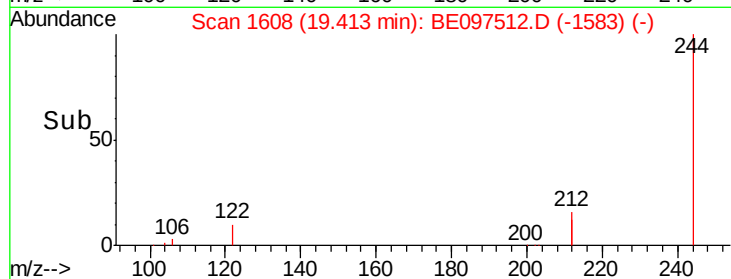
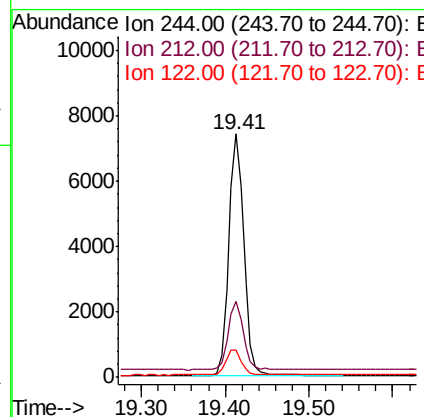
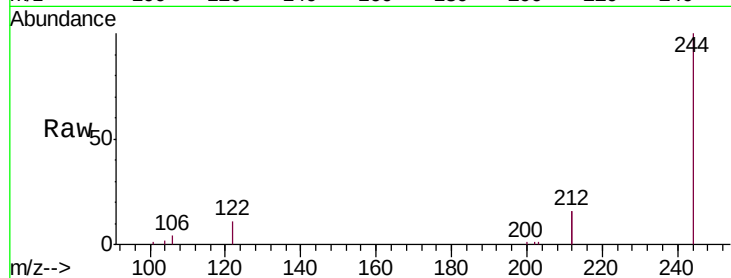
#29  
 Terphenyl-d14  
 Concen: 0.538 ng  
 RT: 19.41 min Scan# 1608  
 Delta R.T. -0.01 min  
 Lab File: BE097512.D  
 Acq: 18 Sep 2018 1:15

Instrument :  
 BNA\_E  
 ClientSampled :  
 AOC3-01-D

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 244     | 100   | 9272 |       |       |
| 212     | 31.1  | 25.4 | 38.0  |       |
| 122     | 11.2  | 8.1  | 12.1  |       |

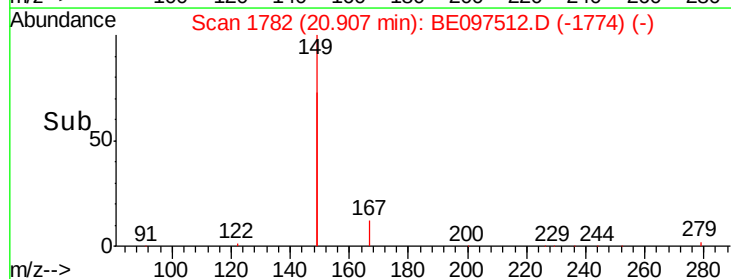
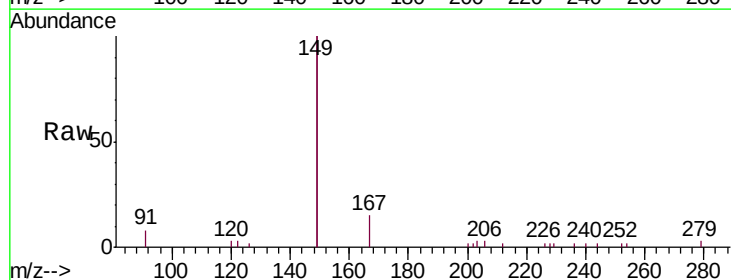
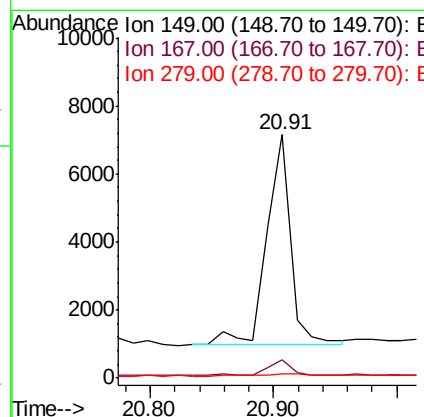
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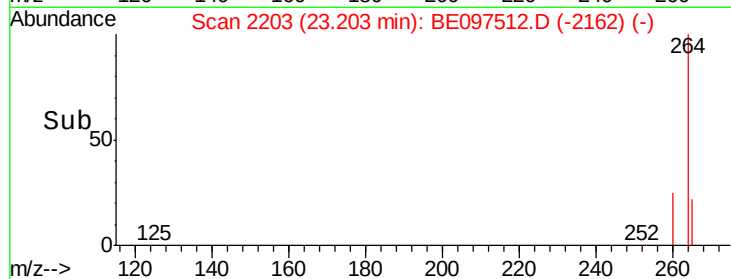
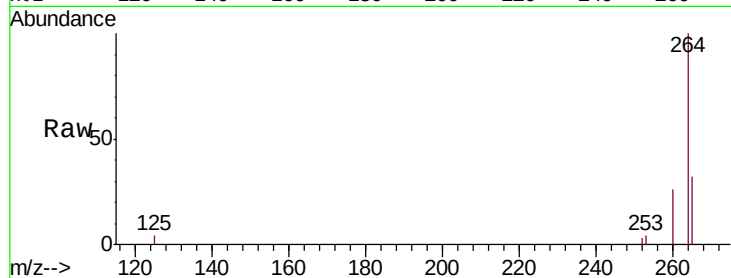
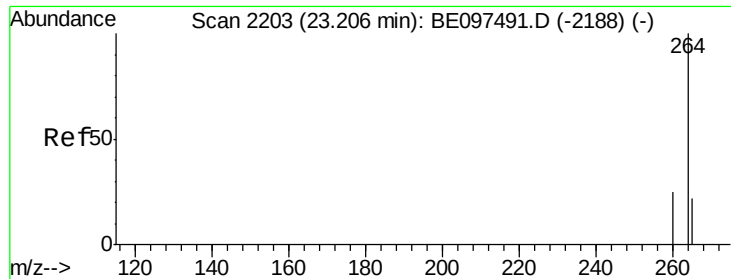
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#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.168 ng  
 RT: 20.91 min Scan# 1782  
 Delta R.T. 0.00 min  
 Lab File: BE097512.D  
 Acq: 18 Sep 2018 1:15

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 149     | 100   | 8460 |       |       |
| 167     | 6.3   | 5.4  | 8.0   |       |
| 279     | 1.5   | 0.7  | 1.1   |       |





#34

Perylene-d12

Concen: 0.400 ng

RT: 23.20 min Scan# 2203

Delta R.T. -0.00 min

Lab File: BE097512.D

Acq: 18 Sep 2018 1:15

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 264  | Resp: | 9107  |
| Ion Ratio |      | Lower | Upper |
| 264       | 100  |       |       |
| 260       | 25.6 | 20.5  | 30.7  |
| 265       | 32.5 | 22.8  | 34.2  |

Instrument :

BNA\_E

ClientSampleId :

AOC3-01-D

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