

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE091718\  
 Data File : BE097498.D  
 Acq On : 17 Sep 2018 16:28  
 Operator : SJ/JU  
 Sample : J4741-33  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

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

Manual Integrations  
 APPROVED

Sohil  
 9/18/2018 5:55:51 PM

Quant Time: Sep 18 06:05:12 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  | 900      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.13 | 136  | 4259     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.00 | 164  | 2465     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.75 | 188  | 6761     | 0.40 | ng    | -0.01    |
| 27) Chrysene-d12          | 20.97 | 240  | 8594     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.21 | 264  | 8635     | 0.40 | ng    | 0.00     |

#### System Monitoring Compounds

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| 4) 2-Fluorophenol           | 5.06  | 112 | 640   | 0.21 | ng | 0.00  |
| 5) Phenol-d6                | 6.62  | 99  | 440   | 0.11 | ng | 0.02  |
| 8) Nitrobenzene-d5          | 8.52  | 82  | 1500  | 0.44 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 11.71 | 152 | 2913  | 0.48 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.52 | 330 | 669   | 0.51 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 12.62 | 172 | 4987  | 0.58 | ng | 0.00  |
| 25) Fluoranthene-d10        | 18.80 | 212 | 42305 | 0.52 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.42 | 244 | 10663 | 0.65 | ng | 0.00  |

#### Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 9) Naphthalene                 | 10.17 | 128 | 35924  | 0.929 | ng | 100    |
| 12) 2-Methylnaphthalene        | 11.79 | 142 | 6010   | 0.972 | ng | 99     |
| 17) Acenaphthene               | 14.06 | 154 | 1971   | 0.298 | ng | 93     |
| 18) Fluorene                   | 15.06 | 166 | 2058   | 0.244 | ng | # 80   |
| 22) Pentachlorophenol          | 16.44 | 266 | 302    | 0.619 | ng | # 80   |
| 23) Phenanthrene               | 16.80 | 178 | 6128   | 0.385 | ng | 99     |
| 24) Anthracene                 | 16.89 | 178 | 689    | 0.047 | ng | 98     |
| 26) Fluoranthene               | 18.83 | 202 | 2160   | 0.104 | ng | 99     |
| 28) Pyrene                     | 19.19 | 202 | 1961   | 0.089 | ng | # 96   |
| 32) Bis(2-ethylhexyl)phthalate | 20.91 | 149 | 10922m | 0.227 | ng |        |

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

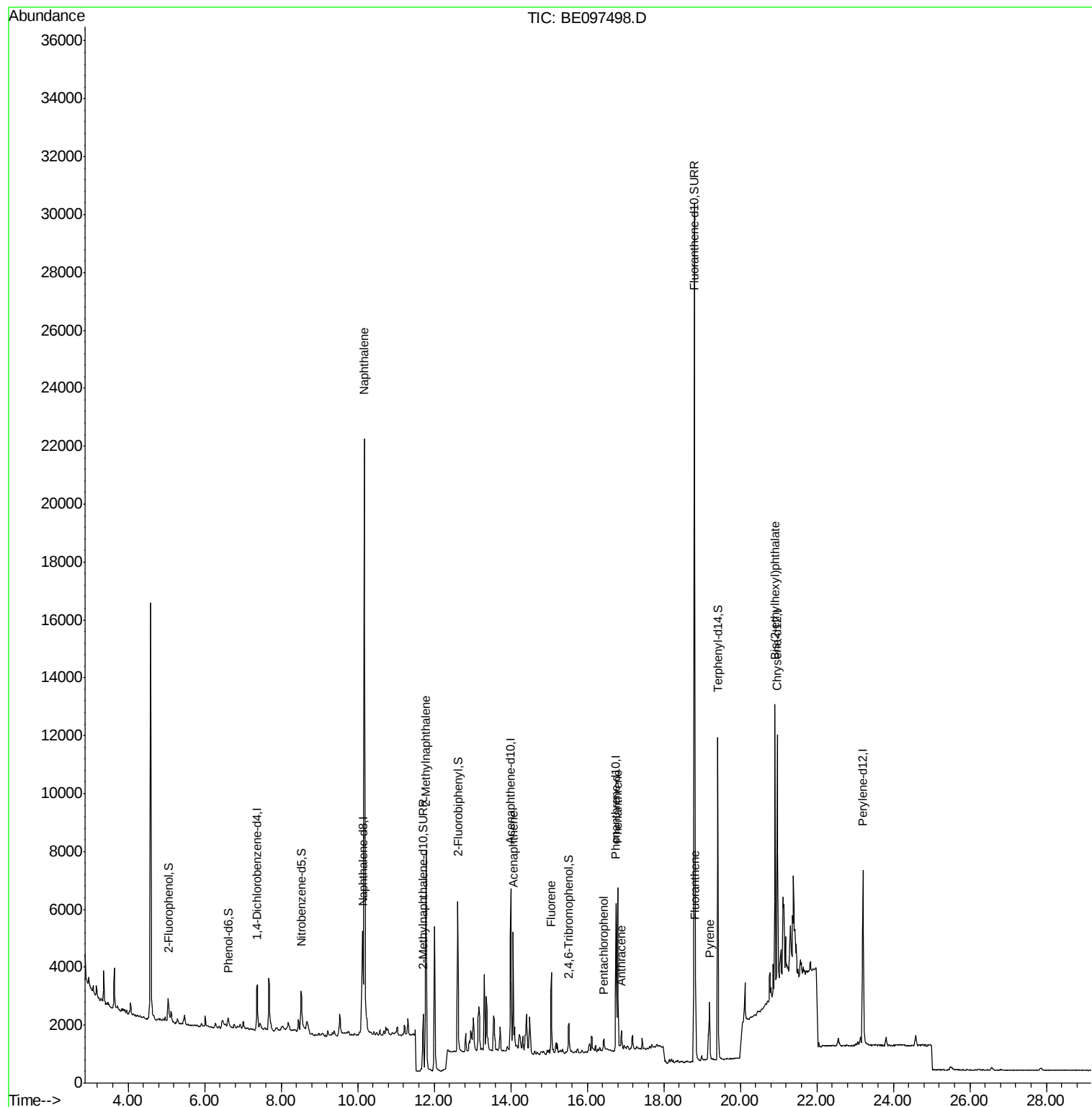
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_E\DATA\BE091718\  
Data File : BE097498.D  
Acq On : 17 Sep 2018 16:28  
Operator : SJ/JU  
Sample : J4741-33  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

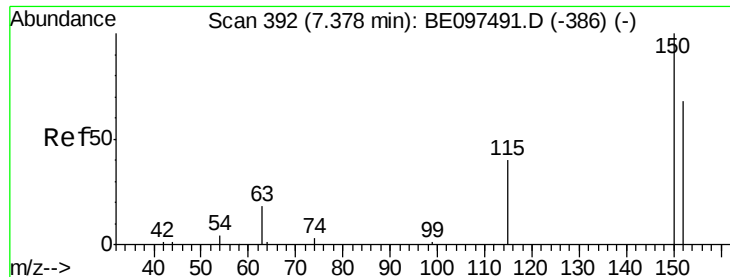
Instrument :  
BNA\_E  
ClientSampleId :  
AOC3-01-B

Manual Integrations  
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Quant Time: Sep 18 06:05:12 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

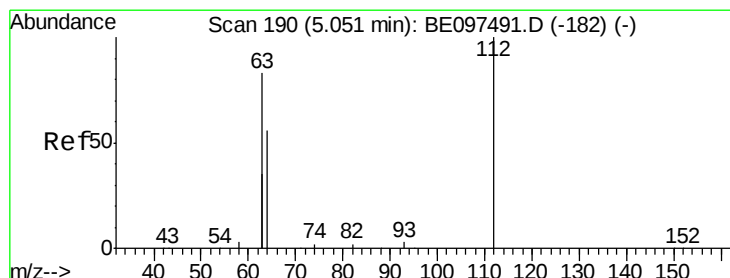
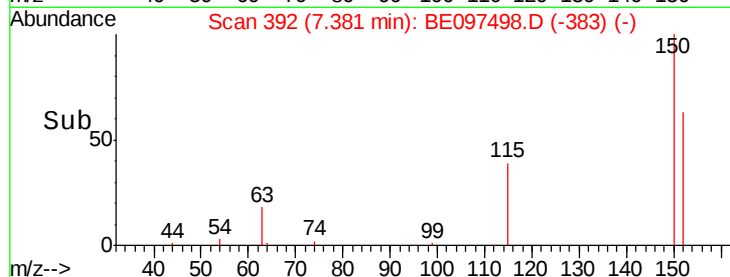
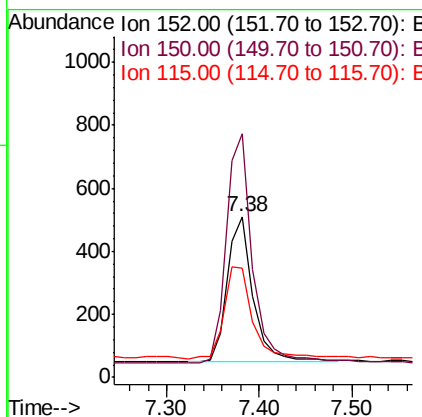
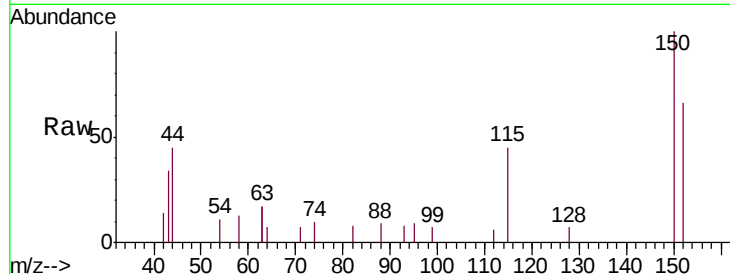
1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.38 min Scan# 392  
 Delta R.T. 0.00 min  
 Lab File: BE097498.D  
 Acq: 17 Sep 2018 16:28

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.6 | 117.2 | 175.8 |
| 115     | 68.0  | 57.0  | 85.6  |

Manual Integrations  
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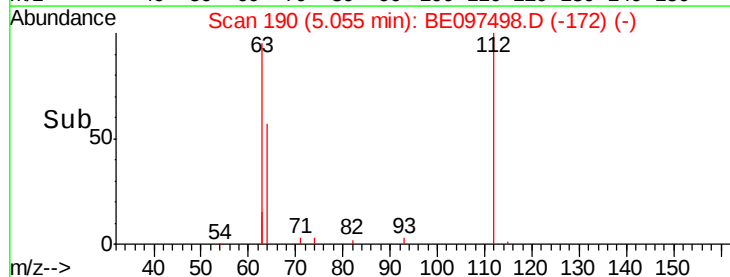
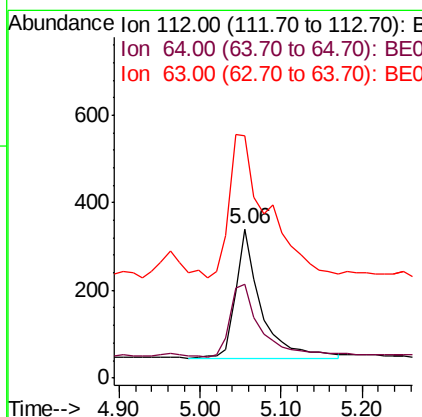
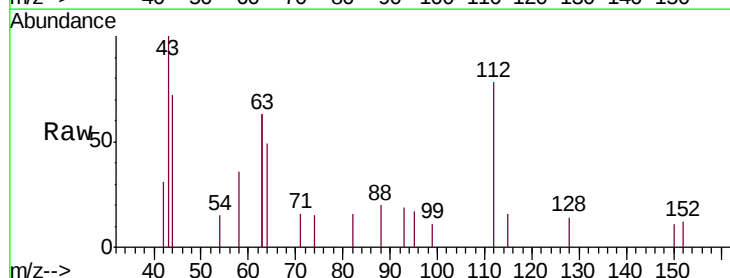
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 9/18/2018 5:55:51 PM

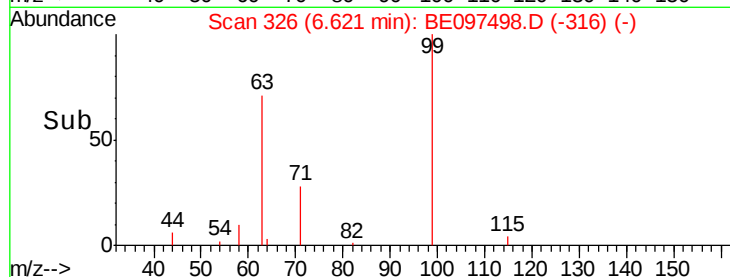
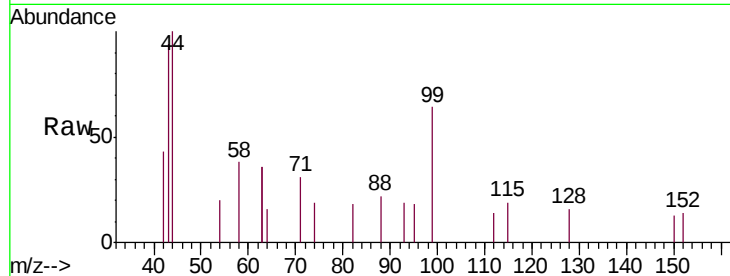
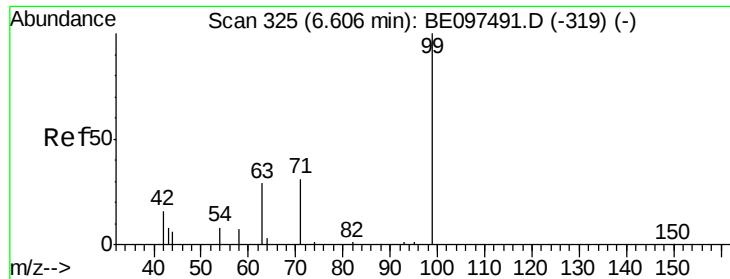


#4

2-Fluorophenol  
 Concen: 0.210 ng  
 RT: 5.06 min Scan# 190  
 Delta R.T. 0.00 min  
 Lab File: BE097498.D  
 Acq: 17 Sep 2018 16:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.8  | 60.1  | 90.1  |
| 63      | 166.3 | 116.8 | 175.2 |





#5

Phenol-d6

Concen: 0.114 ng

RT: 6.62 min Scan# 326

Delta R.T. 0.02 min

Lab File: BE097498.D

Acq: 17 Sep 2018 16:28

Instrument :

BNA\_E

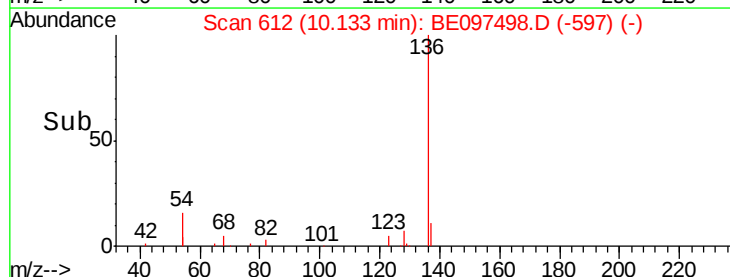
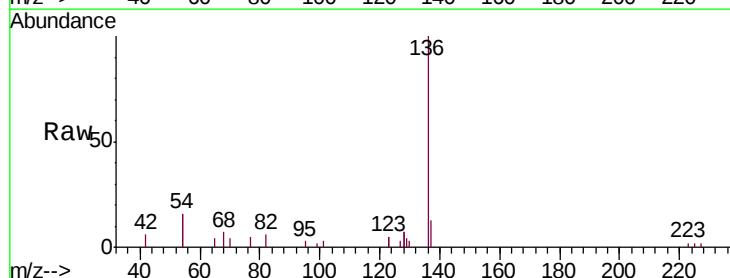
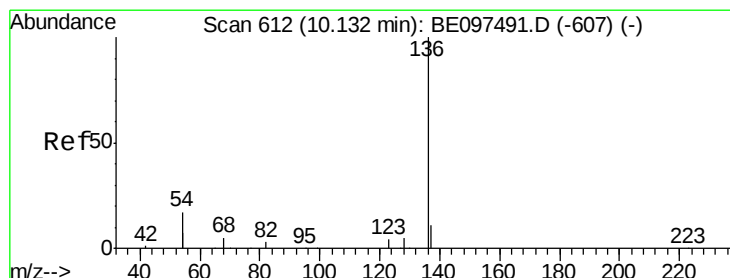
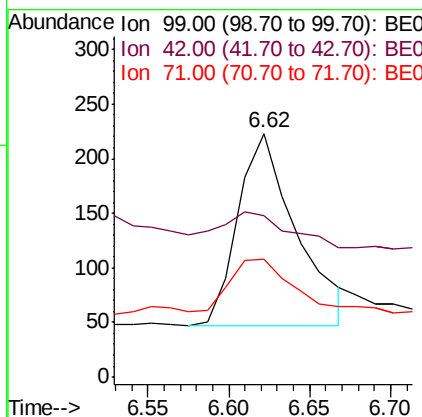
ClientSampled :

AOC3-01-B

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 440   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 21.1  | 20.2  | 30.2  |
| 71       | 28.0  | 28.4  | 42.6# |

Manual Integrations  
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#7

Naphthalene-d8

Concen: 0.400 ng

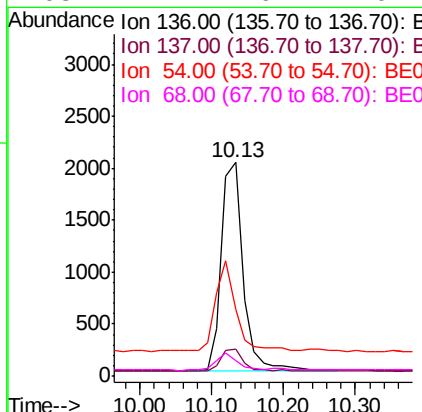
RT: 10.13 min Scan# 612

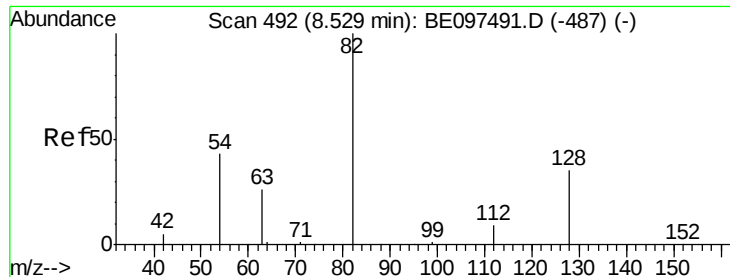
Delta R.T. 0.00 min

Lab File: BE097498.D

Acq: 17 Sep 2018 16:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4259  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.6  | 9.5   | 14.3  |
| 54       | 31.4  | 29.1  | 43.7  |
| 68       | 7.2   | 6.2   | 9.2   |





#8

Nitrobenzene-d5

Concen: 0.438 ng

RT: 8.52 min Scan# 491

Delta R.T. -0.01 min

Lab File: BE097498.D

Acq: 17 Sep 2018 16:28

Instrument :

BNA\_E

ClientSampled :

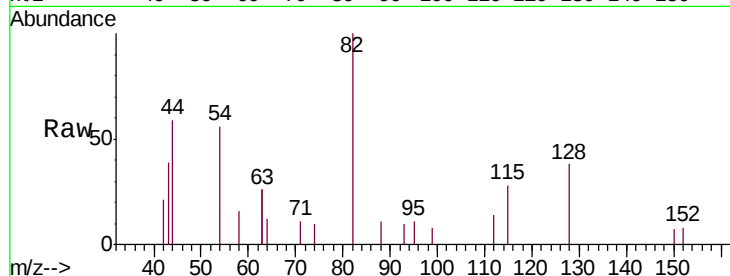
AOC3-01-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 1500  |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 37.6  | 24.0  | 36.0# |
| 54        | 56.2  | 40.0  | 60.0  |

Manual Integrations  
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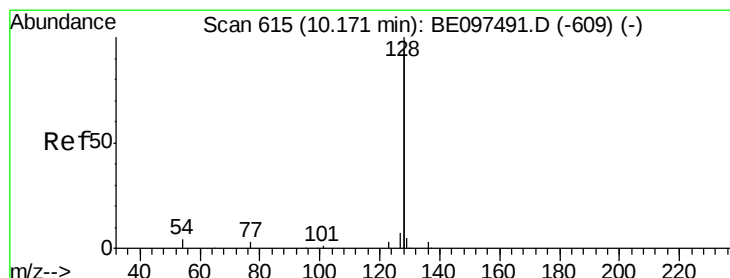
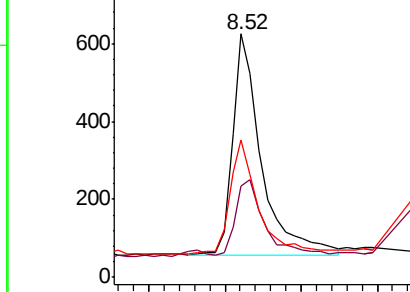
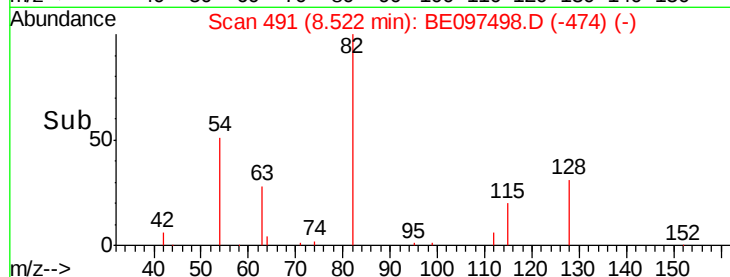


Abundance Ion 82.00 (81.70 to 82.70): BE097491.D (-487) (-)

Ion 128.00 (127.70 to 128.70): BE097491.D (-487) (-)

Ion 54.00 (53.70 to 54.70): BE097491.D (-487) (-)

Time-->



#9

Naphthalene

Concen: 0.929 ng

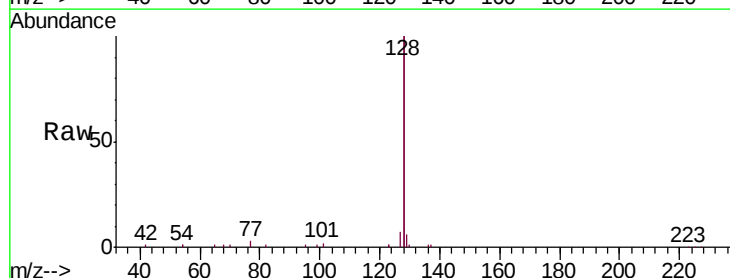
RT: 10.17 min Scan# 615

Delta R.T. 0.00 min

Lab File: BE097498.D

Acq: 17 Sep 2018 16:28

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 35924 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 3.1   | 2.6   | 3.8   |
| 127       | 3.4   | 2.8   | 4.2   |

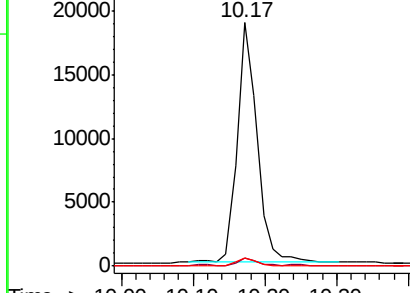
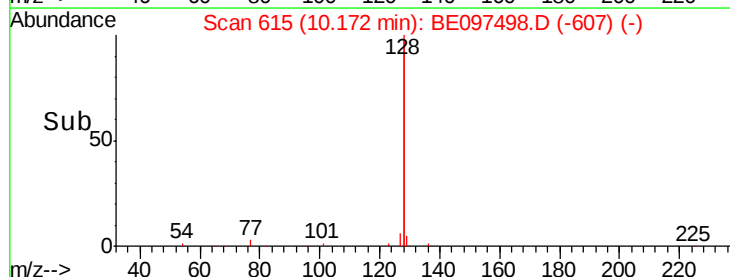


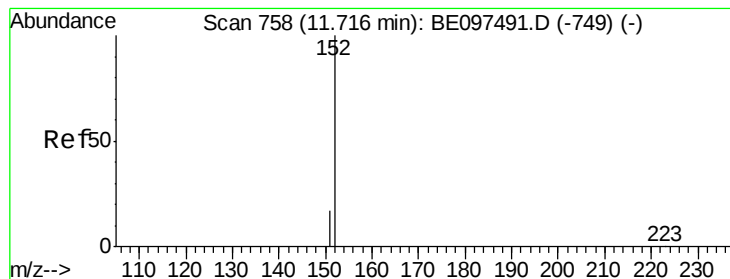
Abundance Ion 128.00 (127.70 to 128.70): BE097491.D (-609) (-)

Ion 129.00 (128.70 to 129.70): BE097491.D (-609) (-)

Ion 127.00 (126.70 to 127.70): BE097491.D (-609) (-)

Time-->





#11

2-Methylnaphthalene-d10

Concen: 0.479 ng

RT: 11.71 min Scan# 757

Delta R.T. -0.01 min

Lab File: BE097498.D

Acq: 17 Sep 2018 16:28

Instrument :

BNA\_E

ClientSampleId :

AOC3-01-B

Tgt Ion:152 Resp: 2913

Ion Ratio Lower Upper

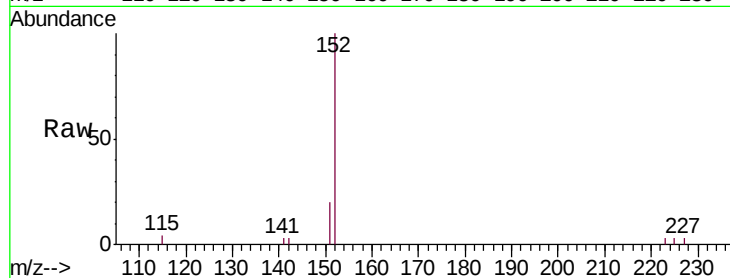
152 100

151 19.2 15.4 23.0

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Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

2000

1500

1000

500

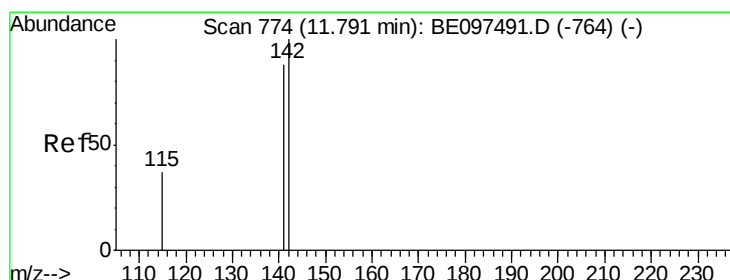
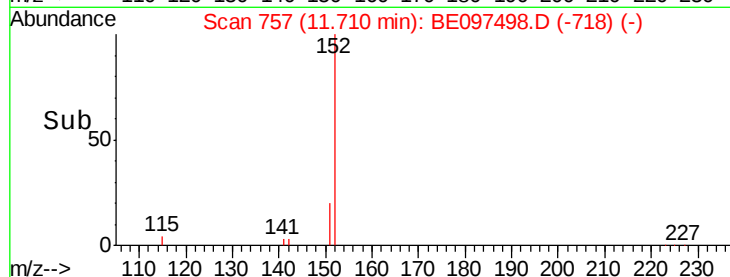
0

11.60

11.70

11.80

Time-->



#12

2-Methylnaphthalene

Concen: 0.972 ng

RT: 11.79 min Scan# 773

Delta R.T. -0.01 min

Lab File: BE097498.D

Acq: 17 Sep 2018 16:28

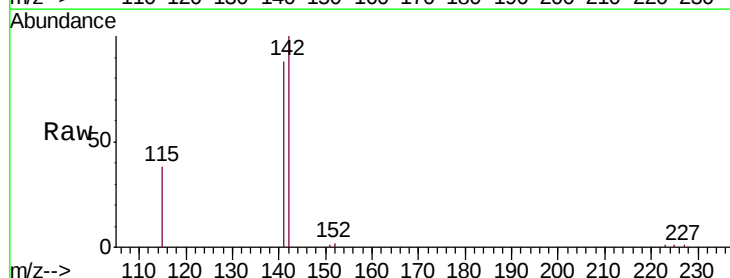
Tgt Ion:142 Resp: 6010

Ion Ratio Lower Upper

142 100

141 87.9 70.4 105.6

115 38.2 31.7 47.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

4000

3000

2000

1000

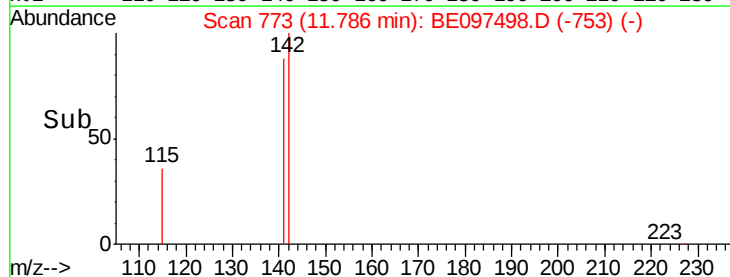
0

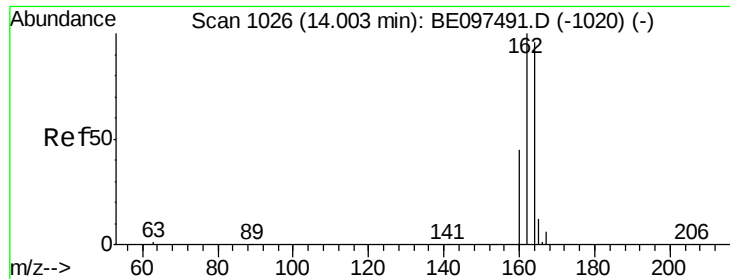
11.70

11.80

11.90

Time-->





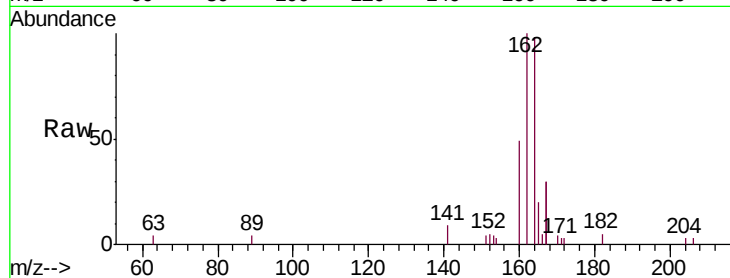
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.00 min Scan# 1026  
Delta R.T. -0.00 min  
Lab File: BE097498.D  
Acq: 17 Sep 2018 16:28

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

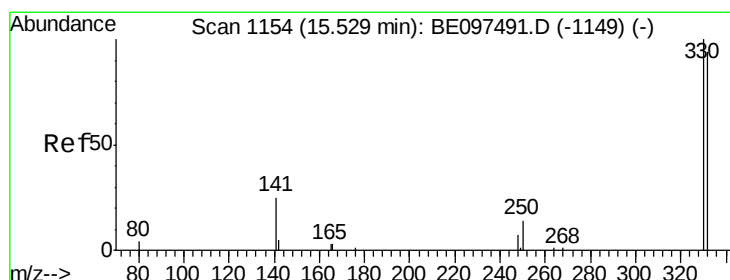
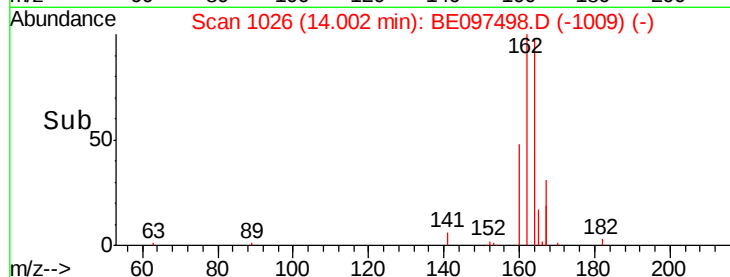
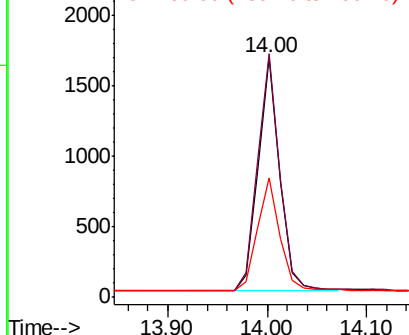
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.8 | 83.1  | 124.7 |
| 160     | 50.2  | 37.1  | 55.7  |

Manual Integrations  
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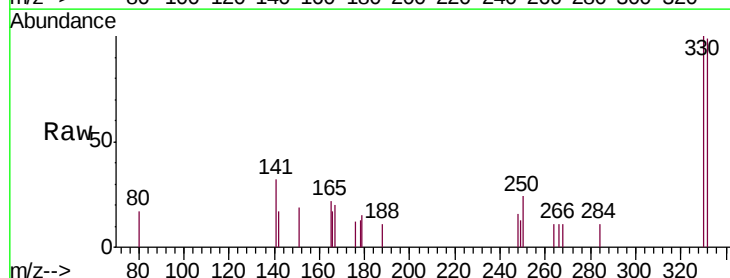


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

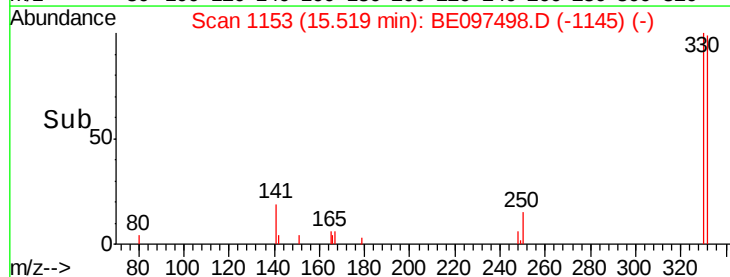
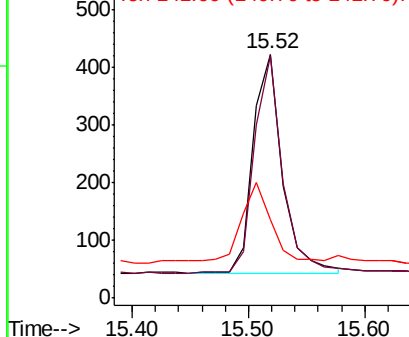


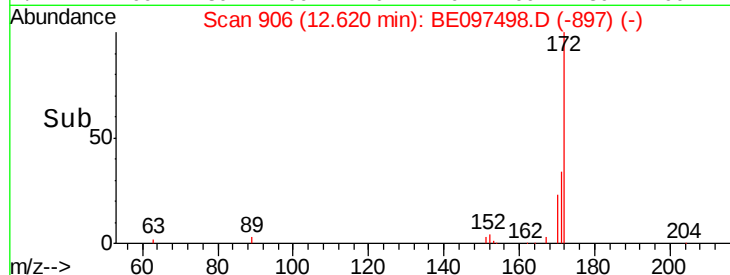
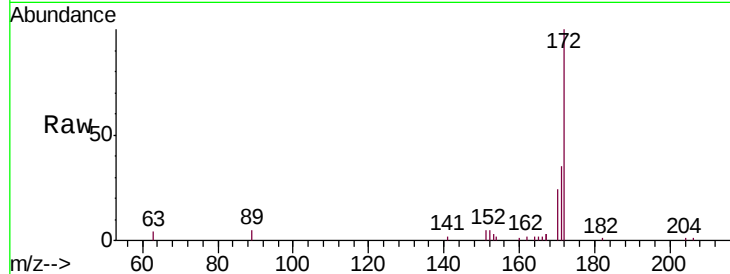
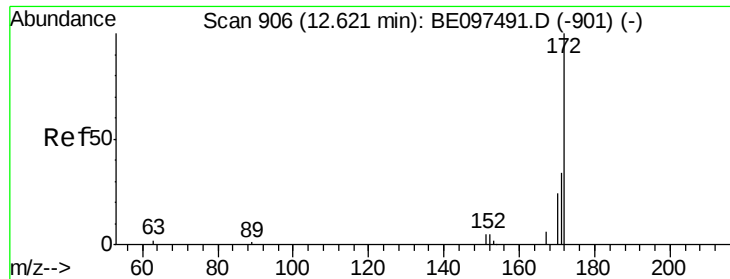
#14  
2,4,6-Tribromophenol  
Concen: 0.514 ng  
RT: 15.52 min Scan# 1153  
Delta R.T. -0.01 min  
Lab File: BE097498.D  
Acq: 17 Sep 2018 16:28

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 330     | 100   |       |        |
| 332     | 96.1  | 152.7 | 229.1# |
| 141     | 35.1  | 33.7  | 50.5   |



Abundance Ion 330.00 (329.70 to 330.70): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E





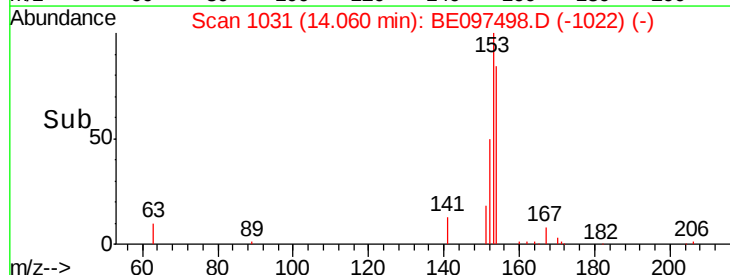
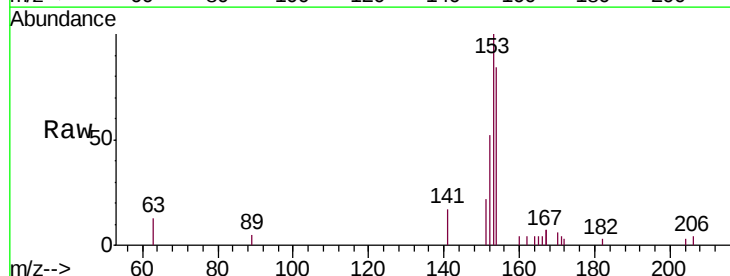
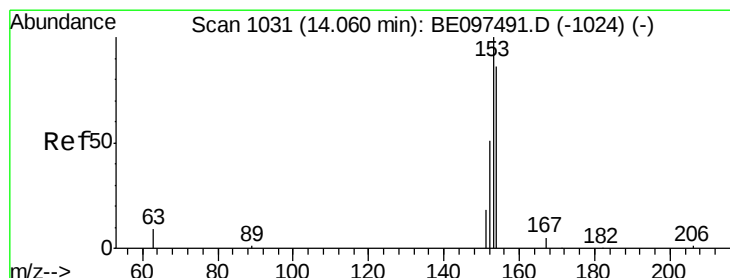
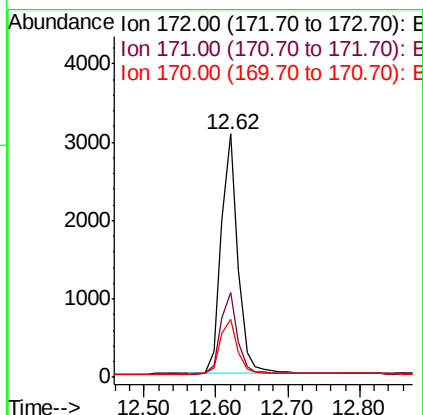
#15  
2-Fluorobiphenyl  
Concen: 0.579 ng  
RT: 12.62 min Scan# 906  
Delta R.T. -0.00 min  
Lab File: BE097498.D  
Acq: 17 Sep 2018 16:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.7  | 29.9  | 44.9  |
| 170     | 23.8  | 21.8  | 32.8  |

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

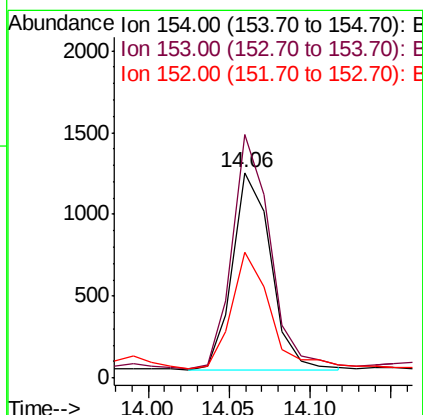
Manual Integrations  
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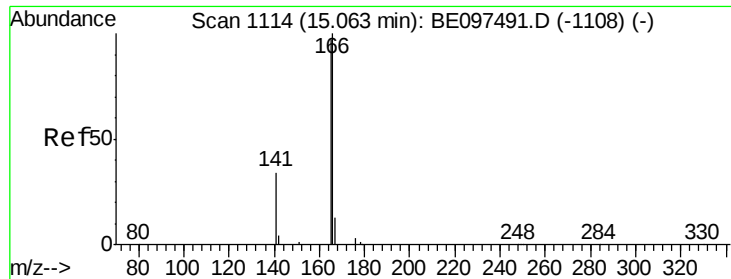
Sohil  
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#17  
Acenaphthene  
Concen: 0.298 ng  
RT: 14.06 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: BE097498.D  
Acq: 17 Sep 2018 16:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 118.1 | 89.2  | 133.8 |
| 152     | 59.2  | 42.0  | 63.0  |





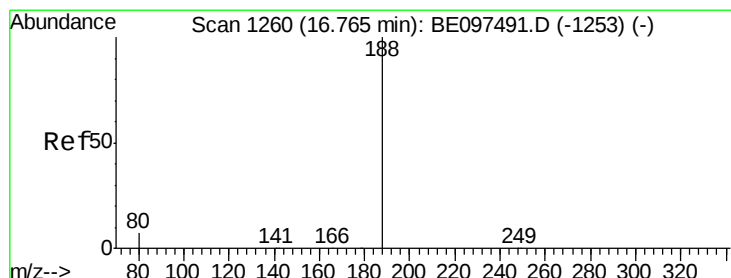
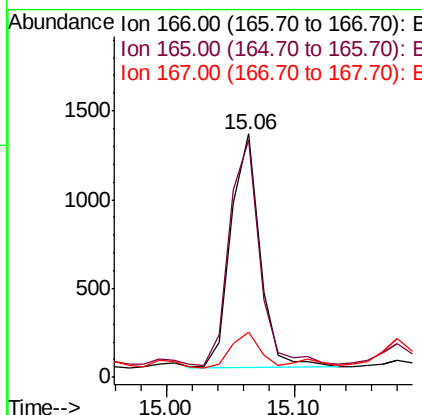
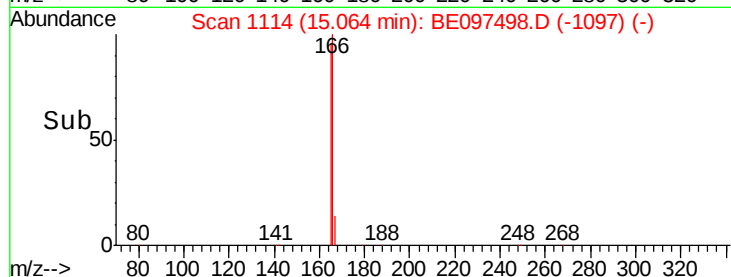
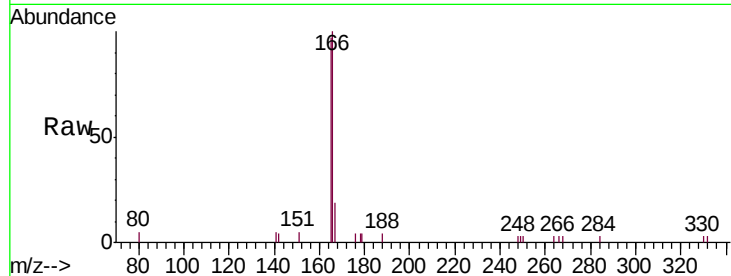
#18  
**Fluorene**  
 Concen: 0.244 ng  
 RT: 15.06 min Scan# 1114  
 Delta R.T. 0.00 min  
 Lab File: BE097498.D  
 Acq: 17 Sep 2018 16:28

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.6  | 77.8  | 116.6 |
| 167     | 15.6  | 42.4  | 63.6# |

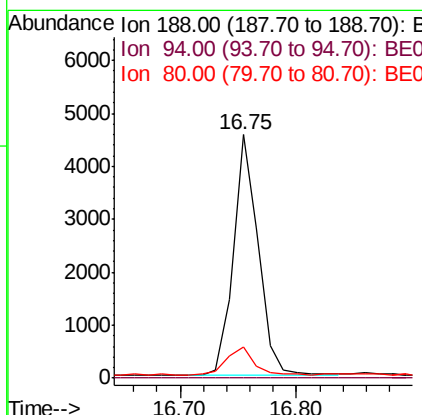
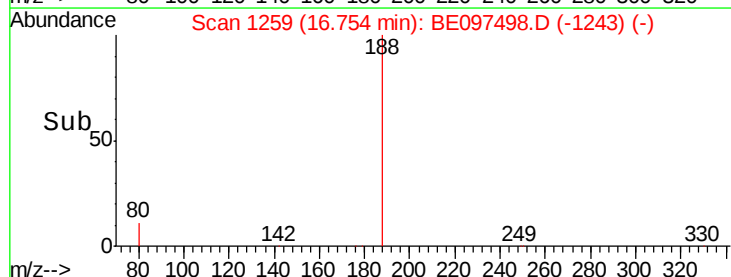
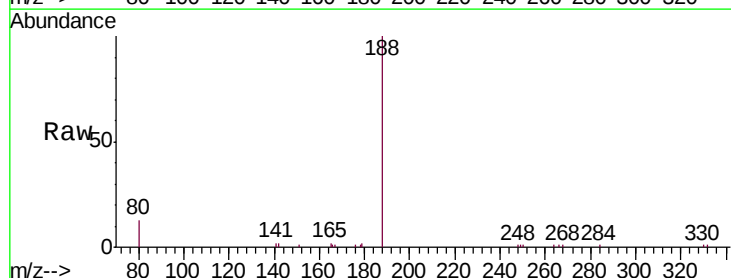
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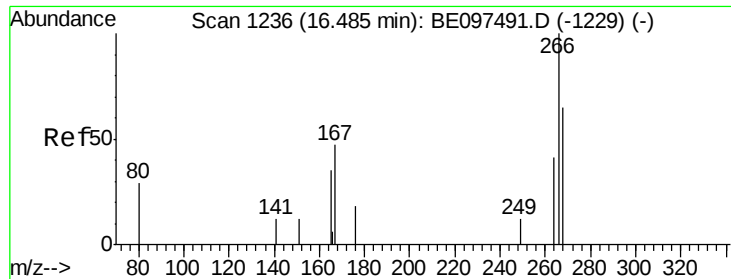
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#19  
**Phenanthrene-d10**  
 Concen: 0.400 ng  
 RT: 16.75 min Scan# 1259  
 Delta R.T. -0.01 min  
 Lab File: BE097498.D  
 Acq: 17 Sep 2018 16:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 3.9   | 5.9#  |
| 80      | 12.6  | 3.6   | 5.4#  |





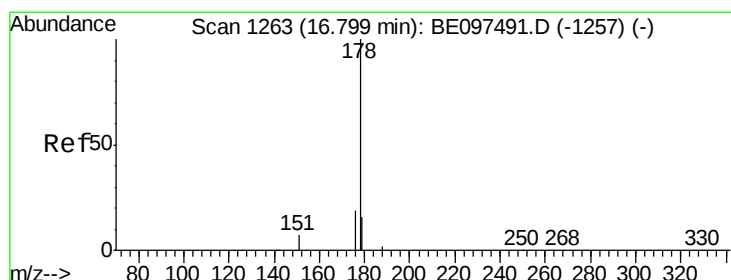
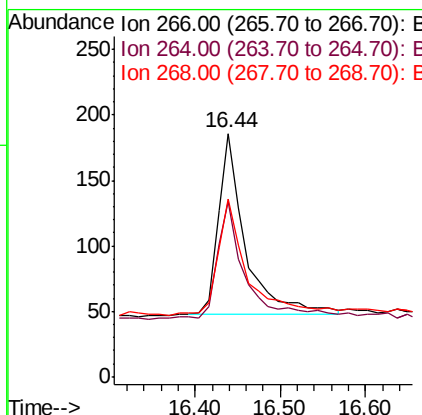
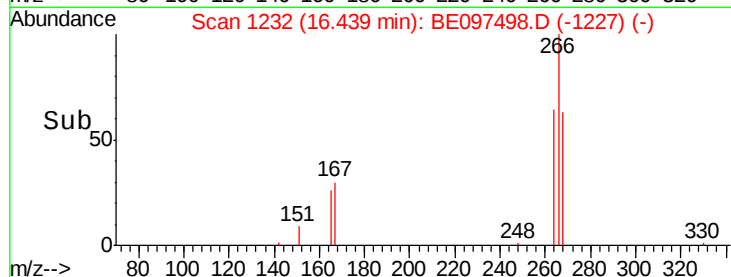
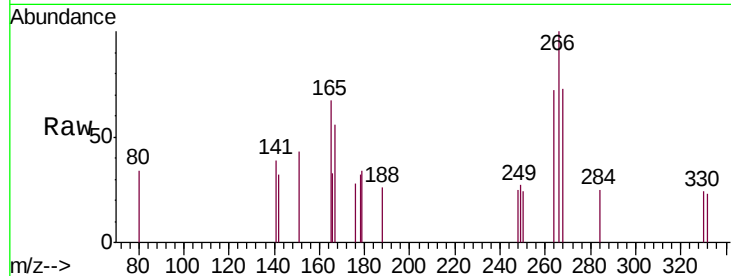
#22  
 Pentachlorophenol  
 Concen: 0.619 ng  
 RT: 16.44 min Scan# 1232  
 Delta R.T. -0.04 min  
 Lab File: BE097498.D  
 Acq: 17 Sep 2018 16:28

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

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 266     | 100   |       |        |
| 264     | 72.0  | 72.5  | 108.7# |
| 268     | 73.1  | 73.8  | 110.6# |

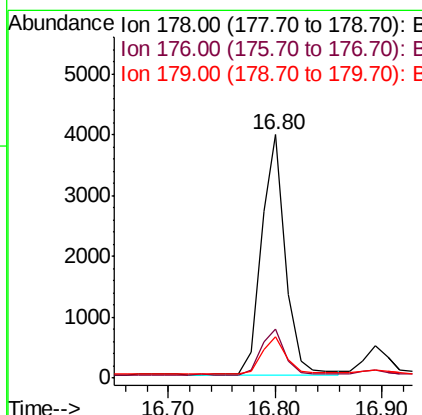
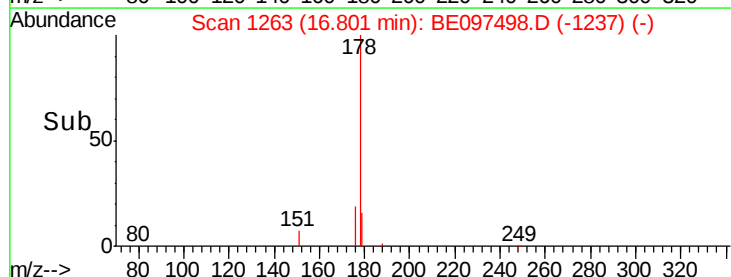
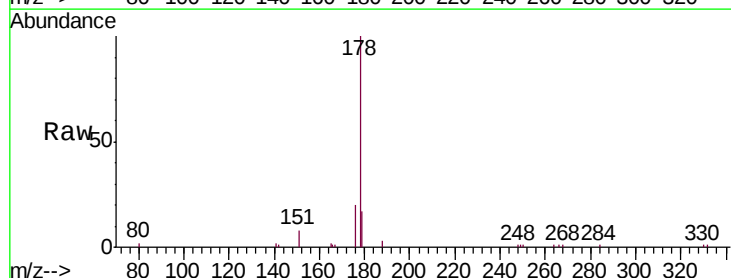
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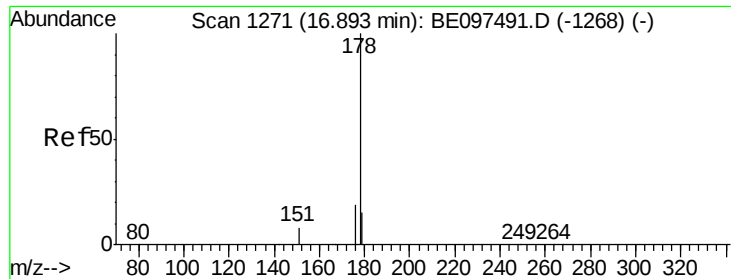
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#23  
 Phenanthrene  
 Concen: 0.385 ng  
 RT: 16.80 min Scan# 1263  
 Delta R.T. 0.00 min  
 Lab File: BE097498.D  
 Acq: 17 Sep 2018 16:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 15.1  | 22.7  |
| 179     | 15.9  | 11.8  | 17.6  |





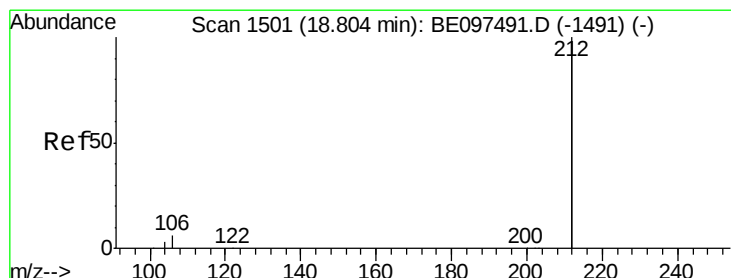
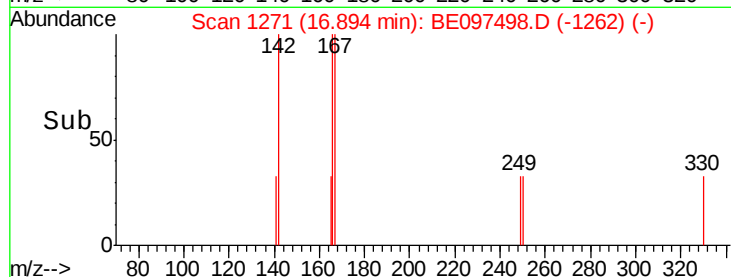
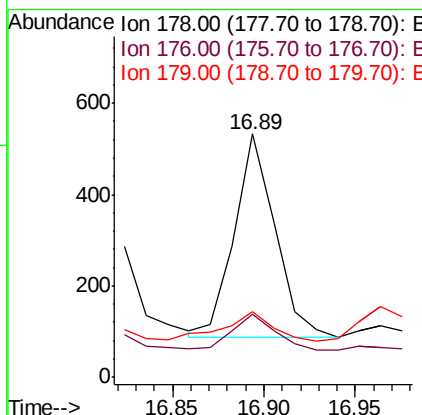
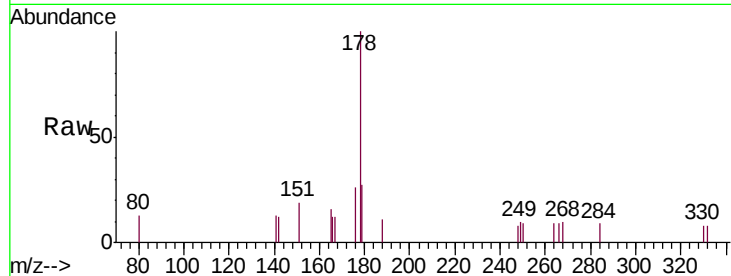
#24  
 Anthracene  
 Concen: 0.047 ng  
 RT: 16.89 min Scan# 1271  
 Delta R.T. 0.00 min  
 Lab File: BE097498.D  
 Acq: 17 Sep 2018 16:28

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.6  | 12.8  | 19.2  |
| 179     | 16.8  | 13.0  | 19.6  |

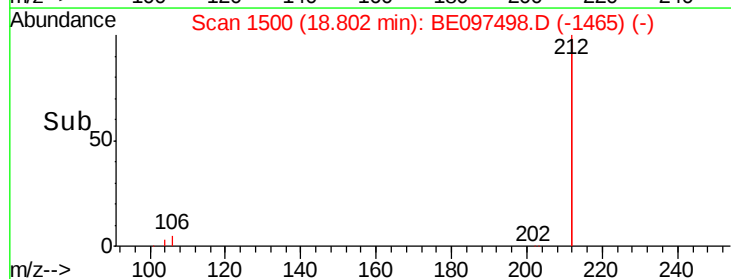
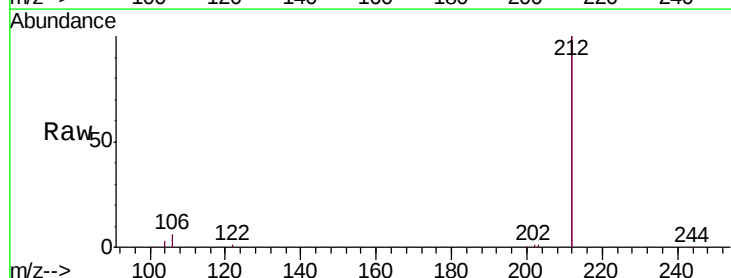
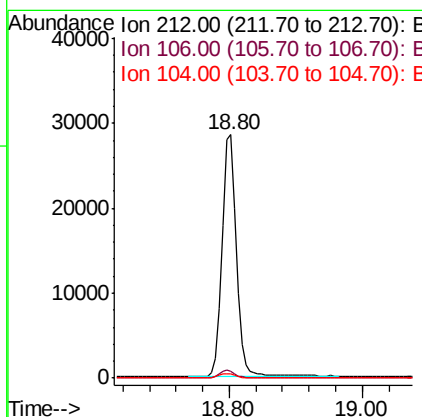
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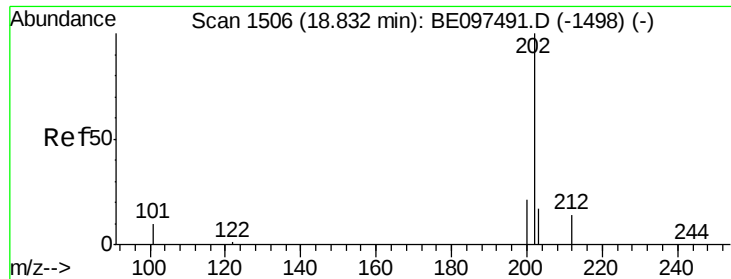
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#25  
 Fluoranthene-d10  
 Concen: 0.521 ng  
 RT: 18.80 min Scan# 1500  
 Delta R.T. -0.00 min  
 Lab File: BE097498.D  
 Acq: 17 Sep 2018 16:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 3.1   | 2.8   | 4.2   |
| 104     | 1.7   | 1.6   | 2.4   |





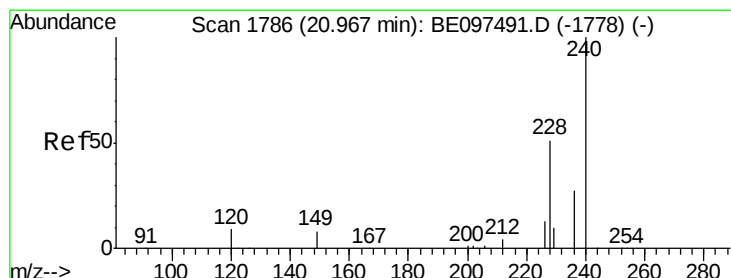
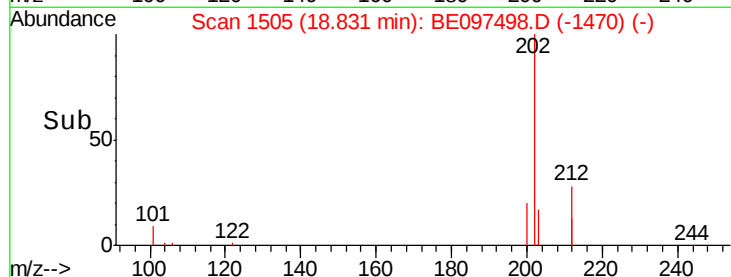
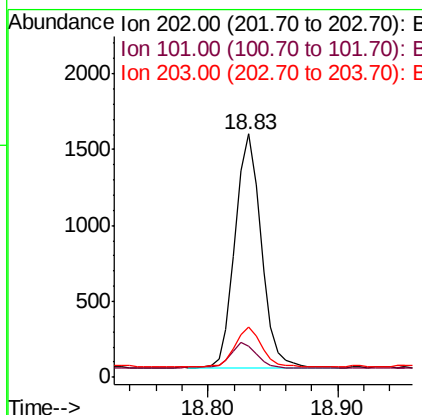
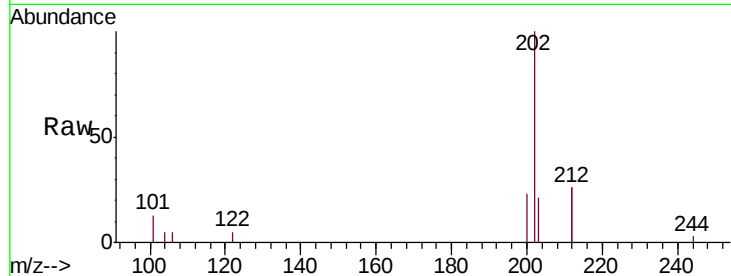
#26  
Fluoranthene  
Concen: 0.104 ng  
RT: 18.83 min Scan# 1505  
Delta R.T. -0.00 min  
Lab File: BE097498.D  
Acq: 17 Sep 2018 16:28

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

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.8  | 9.8   | 14.8  |
| 203     | 17.1  | 13.7  | 20.5  |

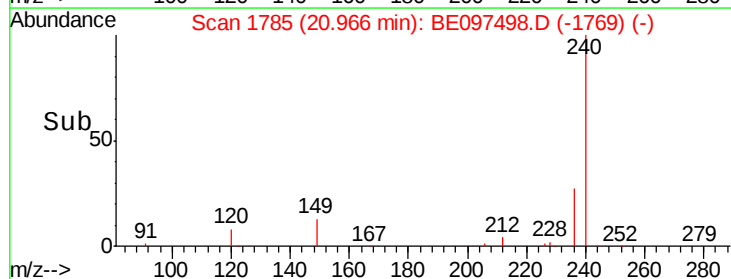
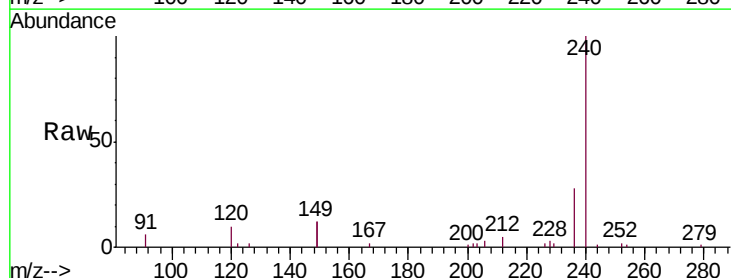
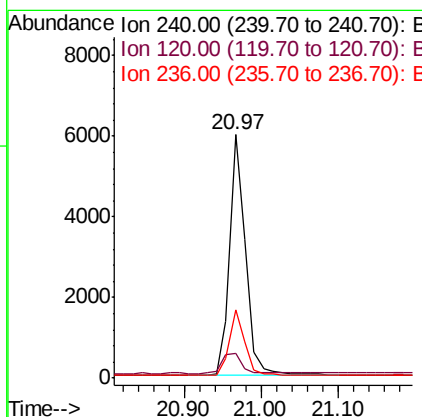
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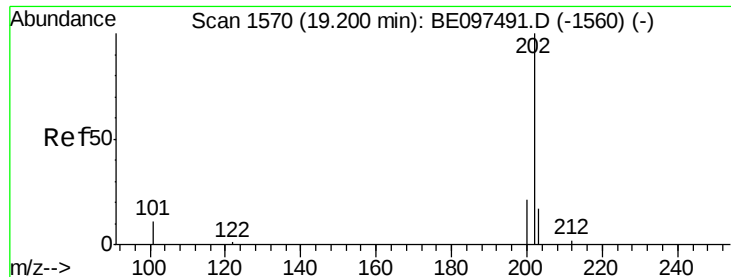
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#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 20.97 min Scan# 1785  
Delta R.T. -0.00 min  
Lab File: BE097498.D  
Acq: 17 Sep 2018 16:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.1  | 5.5   | 8.3#  |
| 236     | 28.2  | 20.7  | 31.1  |





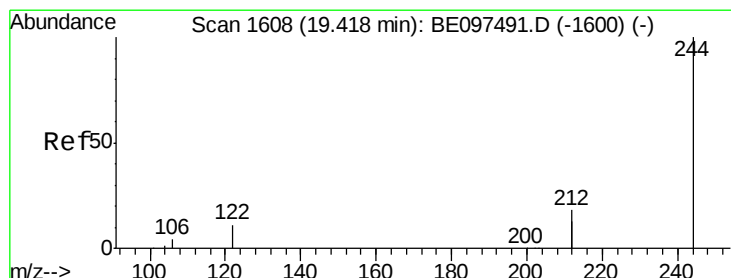
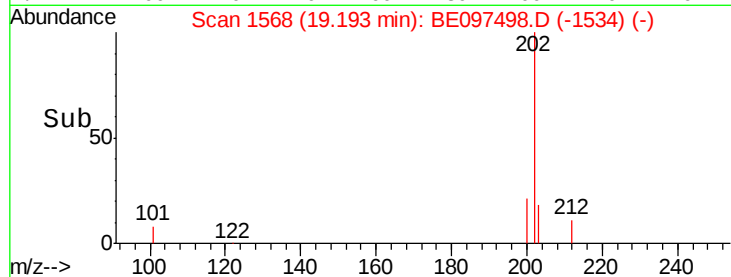
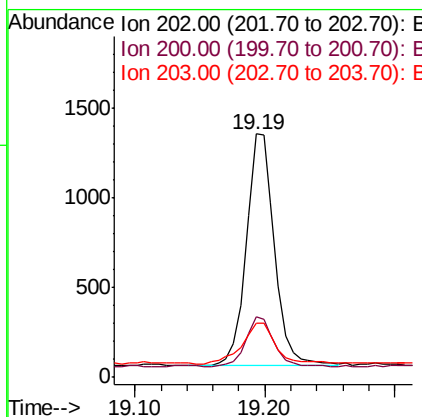
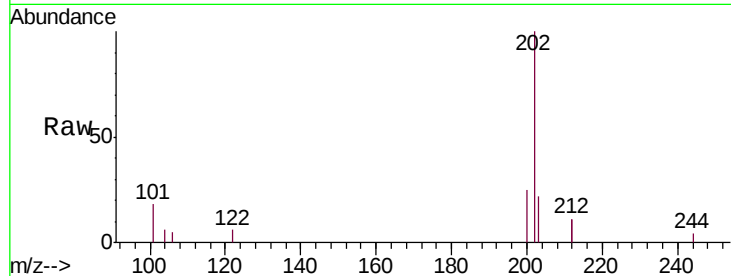
#28  
 Pyrene  
 Concen: 0.089 ng  
 RT: 19.19 min Scan# 1568  
 Delta R.T. -0.01 min  
 Lab File: BE097498.D  
 Acq: 17 Sep 2018 16:28

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

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 20.7  | 16.6       | 25.0       |
| 203     | 21.4  | 13.8       | 20.8       |

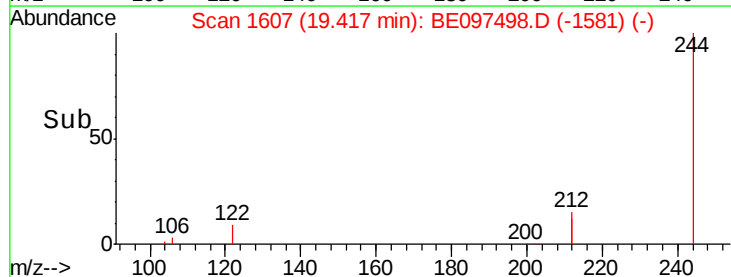
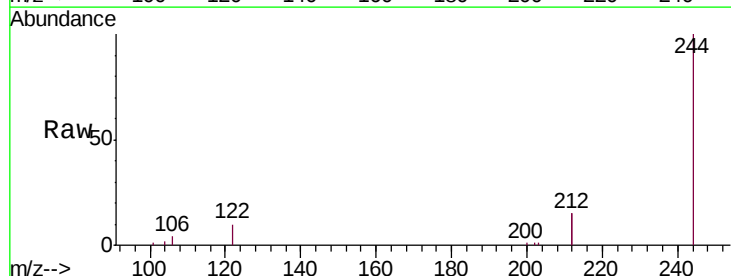
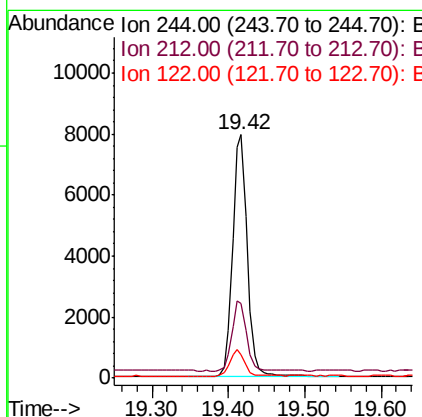
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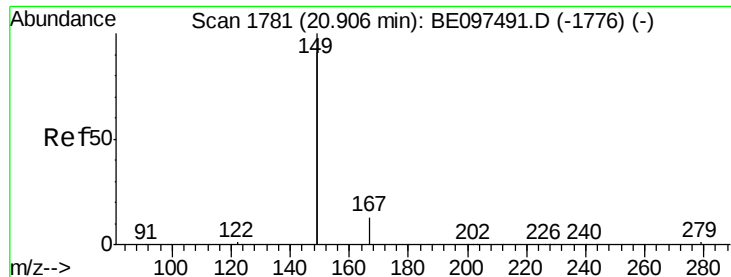
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#29  
 Terphenyl-d14  
 Concen: 0.649 ng  
 RT: 19.42 min Scan# 1607  
 Delta R.T. -0.00 min  
 Lab File: BE097498.D  
 Acq: 17 Sep 2018 16:28

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 244     | 100   |            |            |
| 212     | 30.8  | 25.4       | 38.0       |
| 122     | 9.6   | 8.1        | 12.1       |





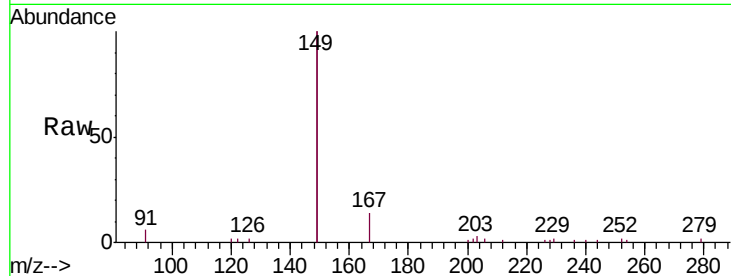
#32  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.227 ng m  
 RT: 20.91 min Scan# 1780  
 Delta R.T. -0.00 min  
 Lab File: BE097498.D  
 Acq: 17 Sep 2018 16:28

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

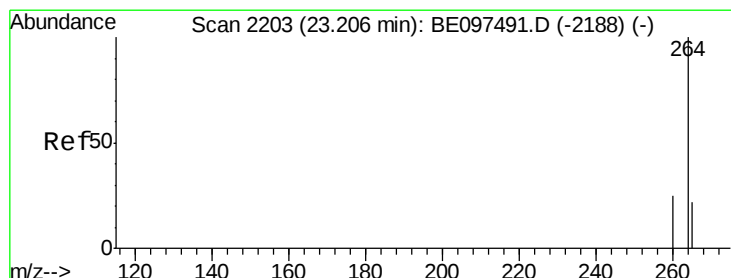
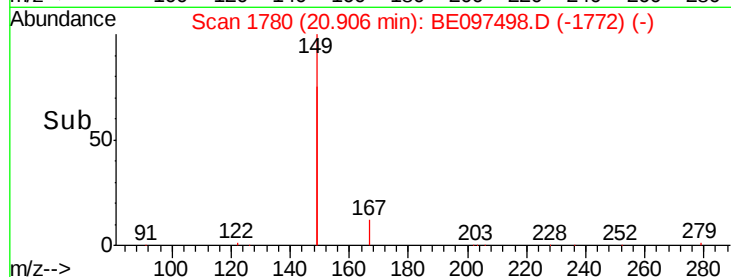
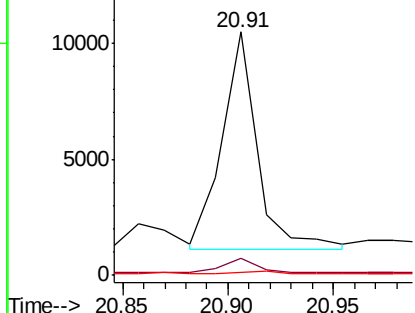
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 6.5   | 5.4   | 8.0   |
| 279     | 1.3   | 0.7   | 1.1#  |

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Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.21 min Scan# 2202  
 Delta R.T. 0.00 min  
 Lab File: BE097498.D  
 Acq: 17 Sep 2018 16:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.5  | 20.5  | 30.7  |
| 265     | 35.2  | 22.8  | 34.2# |

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

