

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE021017\  
 Data File : BE092725.D  
 Acq On : 10 Feb 2017 17:20  
 Operator : SJ/MA  
 Sample : I1756-02  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OUTFALL001-170207

Manual Integrations  
 APPROVED

mohammad  
 2/13/2017 12:51:16 PM

Quant Time: Feb 10 17:57:00 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE011617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 17 10:14:01 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.12  | 152  | 10089    | 5.00 | ng    | -0.02    |
| 7) Naphthalene-d8              | 10.89 | 136  | 43137    | 5.00 | ng    | -0.02    |
| 12) Acenaphthene-d10           | 14.78 | 164  | 26764    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10           | 17.53 | 188  | 50920    | 5.00 | ng    | 0.00     |
| 24) Chrysene-d12               | 21.70 | 240  | 69799    | 5.00 | ng    | -0.02    |
| 31) Perylene-d12               | 24.04 | 264  | 63066    | 5.00 | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |      |       |          |
| 4) 2-Fluorophenol              | 5.63  | 112  | 9311     | 4.13 | ng    | -0.03    |
| 5) Phenol-d6                   | 7.29  | 99   | 6504     | 2.36 | ng    | -0.05    |
| 8) Nitrobenzene-d5             | 9.29  | 82   | 14322    | 5.11 | ng    | -0.05    |
| 13) 2,4,6-Tribromophenol       | 16.27 | 330  | 7553     | 9.53 | ng    | -0.02    |
| 14) 2-Fluorobiphenyl           | 13.39 | 172  | 36167    | 5.49 | ng    | -0.03    |
| 26) Terphenyl-d14              | 20.14 | 244  | 49982    | 5.07 | ng    | -0.02    |
| Target Compounds               |       |      |          |      |       |          |
| 9) Naphthalene                 | 10.95 | 128  | 632      | 0.07 | ng    | # 68     |
| 21) Phenanthrene               | 17.58 | 178  | 492      | 0.04 | ng    | # 57     |
| 23) Fluoranthene               | 19.58 | 202  | 3325     | 0.07 | ng    | 98       |
| 25) Pyrene                     | 19.93 | 202  | 3091     | 0.04 | ng    | 99       |
| 27) Benzo(a)anthracene         | 21.70 | 228  | 2008m    | 0.03 | ng    |          |
| 28) Chrysene                   | 21.75 | 228  | 3646m    | 0.05 | ng    |          |
| 29) Bis(2-ethylhexyl)phthalate | 21.59 | 149  | 831      | 0.26 | ng    | # 56     |

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

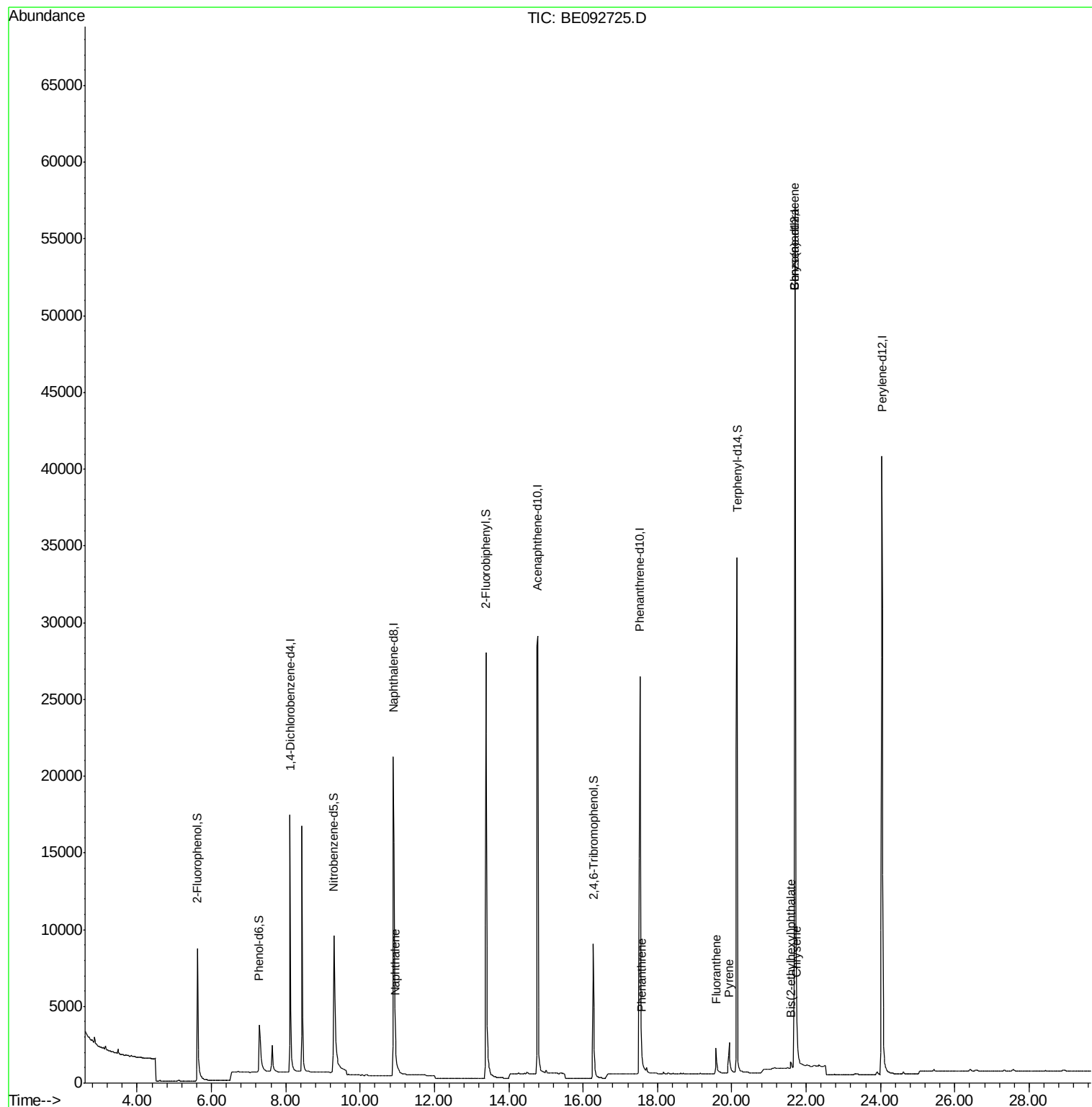
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE021017\  
Data File : BE092725.D  
Acq On : 10 Feb 2017 17:20  
Operator : SJ/MA  
Sample : I1756-02  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

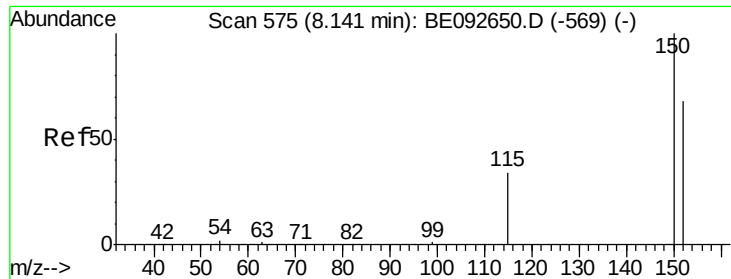
Instrument :  
BNA\_E  
ClientSampleId :  
OUTFALL001-170207

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Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE011617.M  
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QLast Update : Tue Jan 17 10:14:01 2017  
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.12 min Scan# 574

Delta R.T. -0.02 min

Lab File: BE092725.D

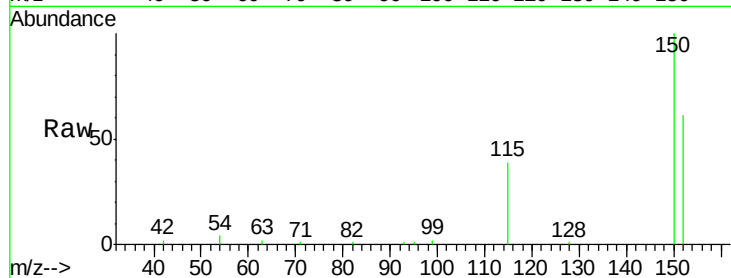
Acq: 10 Feb 2017 17:20

Instrument :

BNA\_E

ClientSampleId :

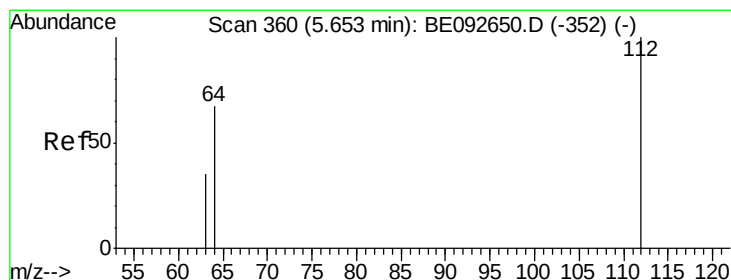
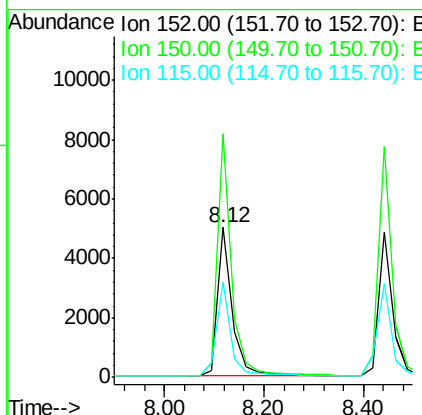
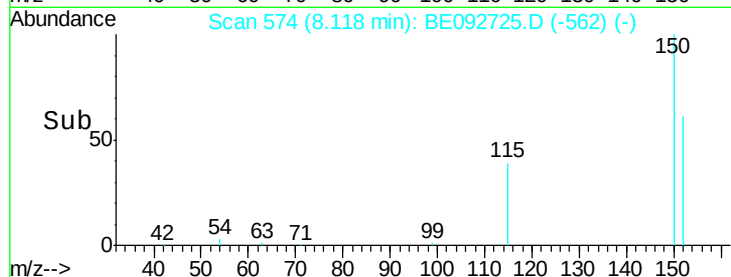
OUTFALL001-170207



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 10089  |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 150       | 162.6 | 106.0 | 159.0# |
| 115       | 63.9  | 31.2  | 46.8#  |

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#4

2-Fluorophenol

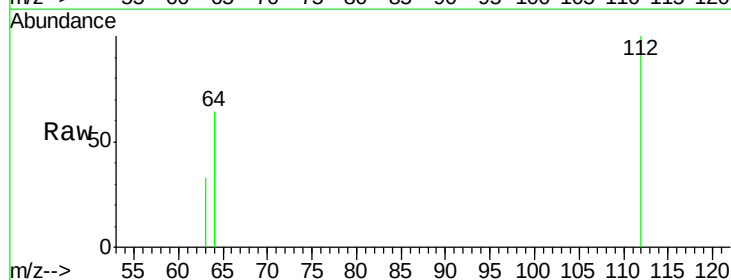
Concen: 4.13 ng

RT: 5.63 min Scan# 356

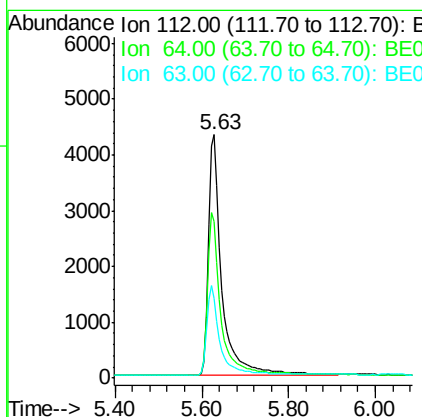
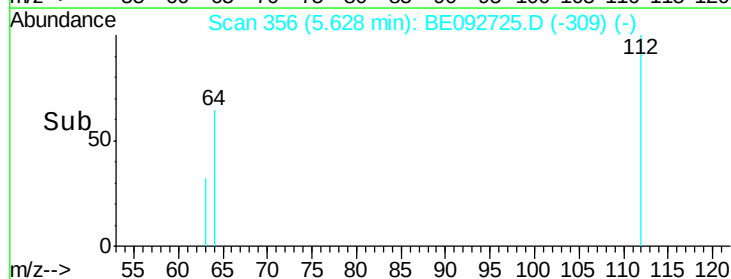
Delta R.T. -0.03 min

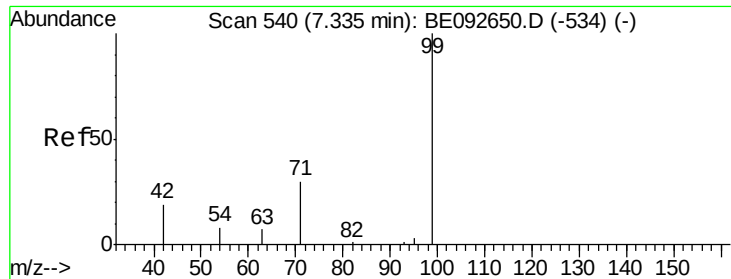
Lab File: BE092725.D

Acq: 10 Feb 2017 17:20



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 9311 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 64        | 67.5  | 53.5  | 80.3 |
| 63        | 36.0  | 27.9  | 41.9 |





#5

Phenol-d6

Concen: 2.36 ng

RT: 7.29 min Scan# 538

Delta R.T. -0.05 min

Lab File: BE092725.D

Acq: 10 Feb 2017 17:20

Instrument :

BNA\_E

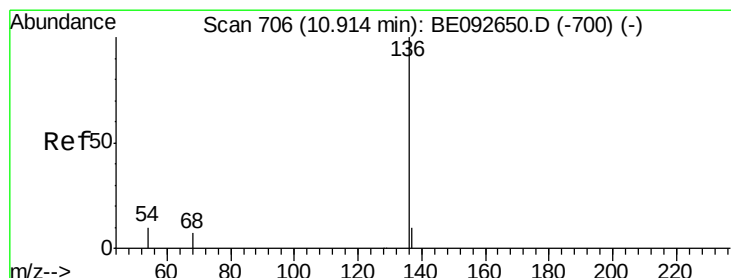
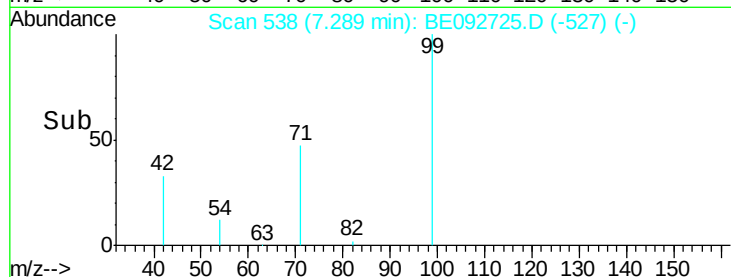
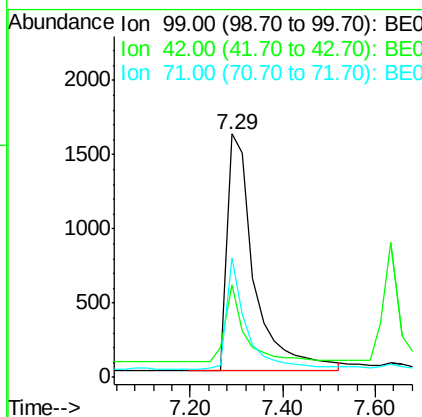
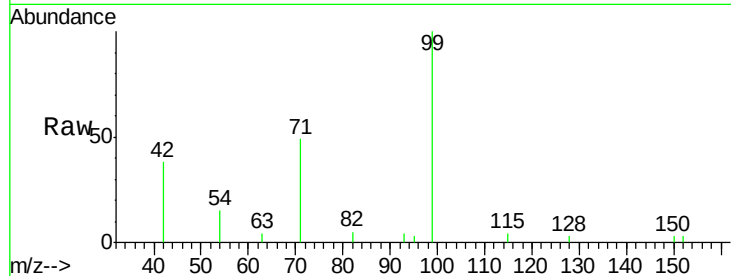
ClientSampleId :

OUTFALL001-170207

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 6504  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 23.6  | 16.0  | 24.0  |
| 71       | 35.0  | 30.6  | 45.8  |

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#7

Naphthalene-d8

Concen: 5.00 ng

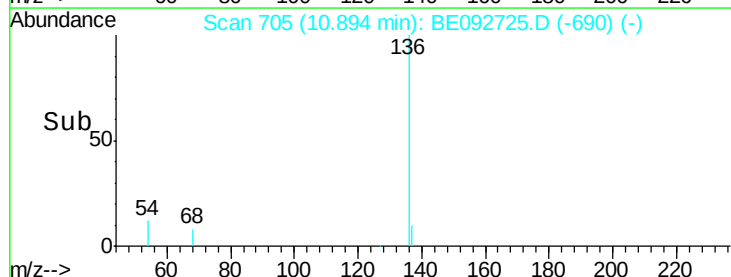
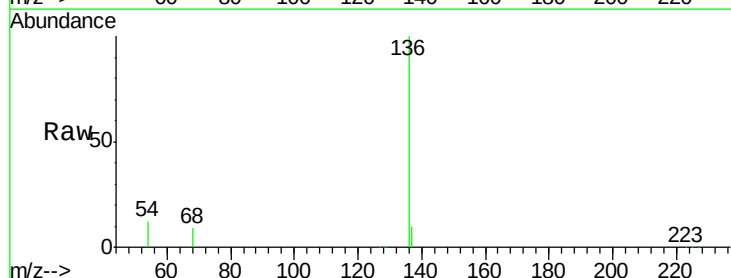
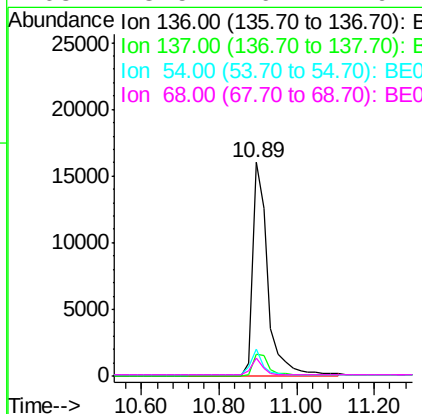
RT: 10.89 min Scan# 705

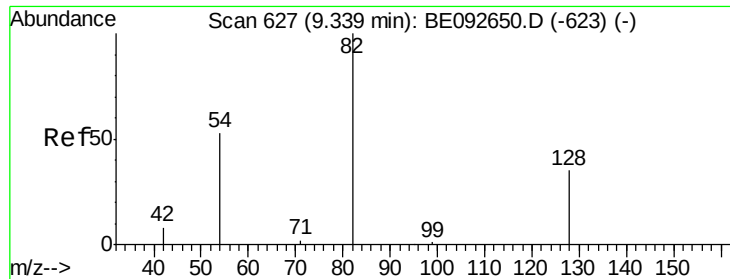
Delta R.T. -0.02 min

Lab File: BE092725.D

Acq: 10 Feb 2017 17:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 43137 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 10.1  | 8.2   | 12.4  |
| 54       | 12.3  | 9.6   | 14.4  |
| 68       | 8.5   | 6.7   | 10.1  |





#8

Nitrobenzene-d5

Concen: 5.11 ng

RT: 9.29 min Scan# 625

Delta R.T. -0.05 min

Lab File: BE092725.D

Acq: 10 Feb 2017 17:20

Instrument :

BNA\_E

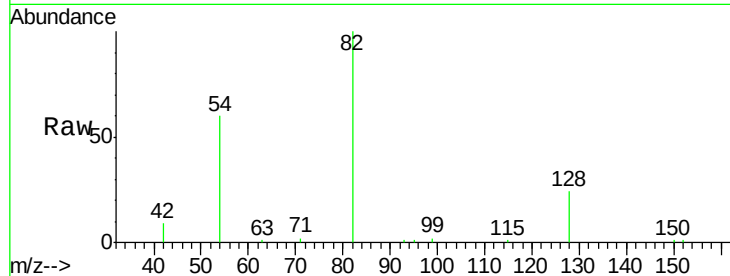
ClientSampleId :

OUTFALL001-170207

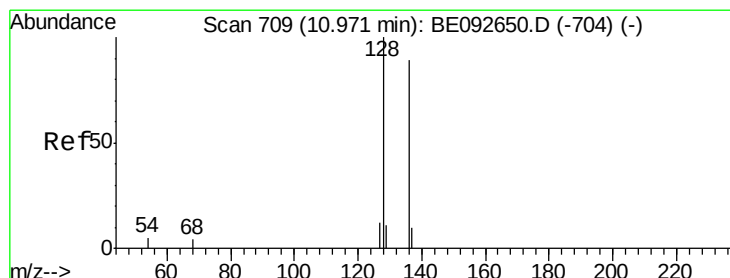
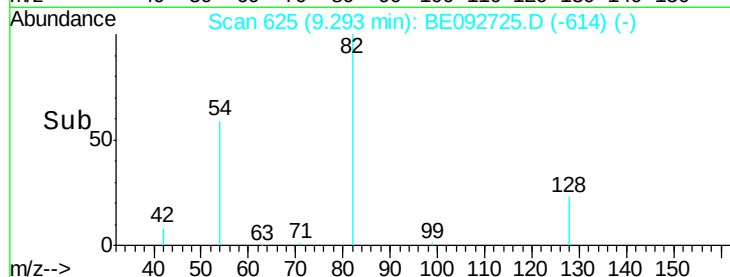
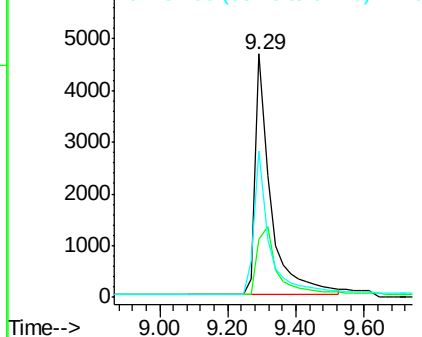
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 14322 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 23.8  | 39.0  | 58.4# |
| 54        | 60.0  | 44.8  | 67.2  |

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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: 0.07 ng

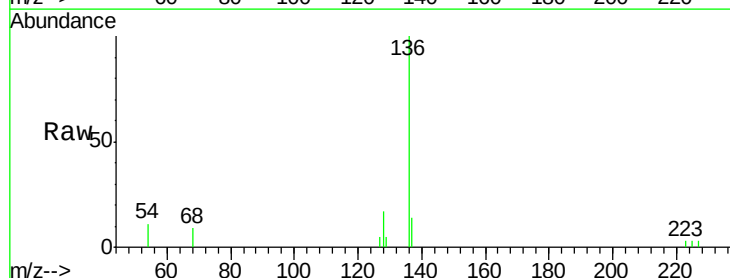
RT: 10.95 min Scan# 708

Delta R.T. -0.02 min

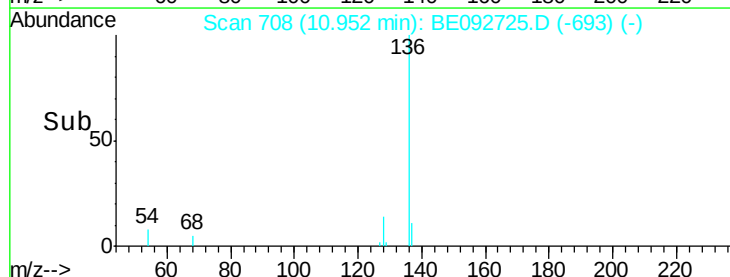
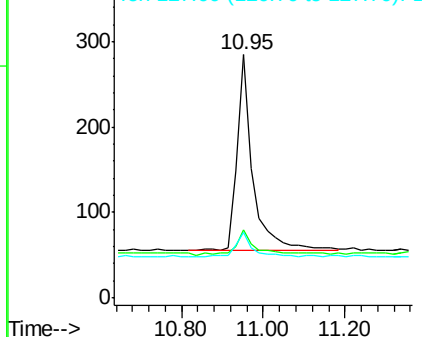
Lab File: BE092725.D

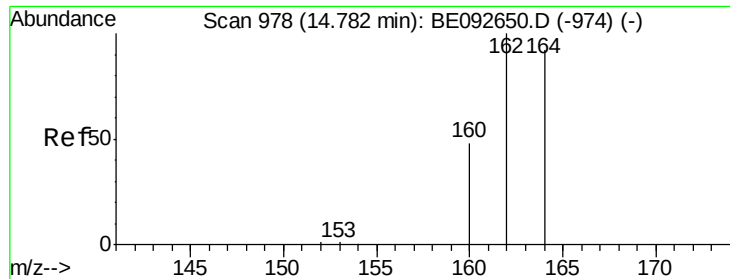
Acq: 10 Feb 2017 17:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 632   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 27.7  | 11.2  | 16.8# |
| 127       | 27.0  | 11.6  | 17.4# |



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





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.78 min Scan# 977

Delta R.T. -0.00 min

Lab File: BE092725.D

Acq: 10 Feb 2017 17:20

Instrument :  
BNA\_E

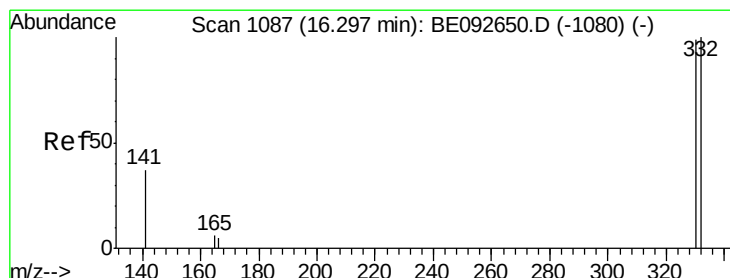
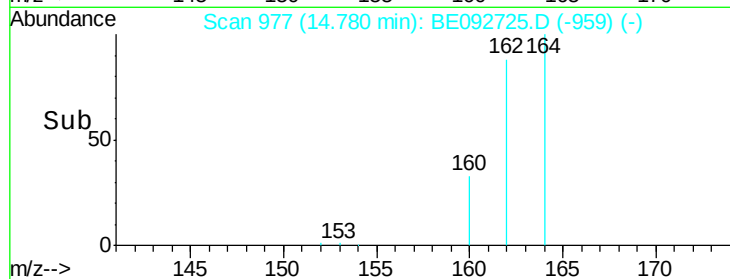
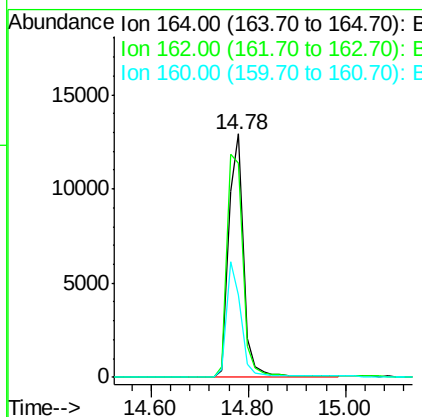
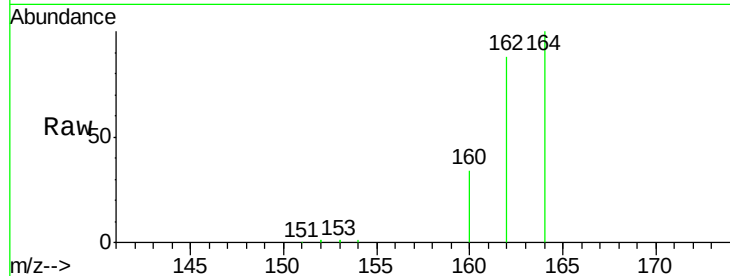
ClientSampleId :  
OUTFALL001-170207

Tgt Ion:164 Resp: 26764

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 87.9  | 71.4  | 107.0 |
| 160 | 33.6  | 27.4  | 41.2  |

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#13

2,4,6-Tribromophenol

Concen: 9.53 ng

RT: 16.27 min Scan# 1084

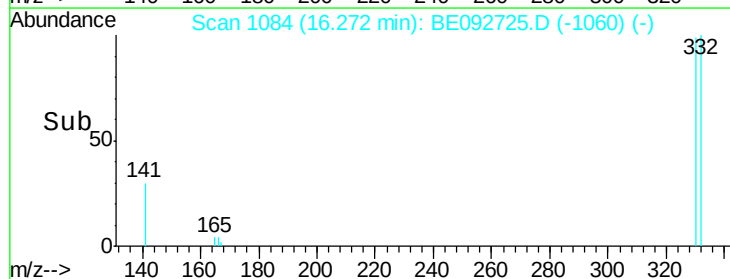
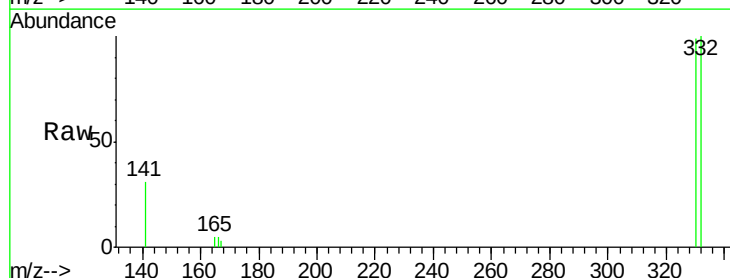
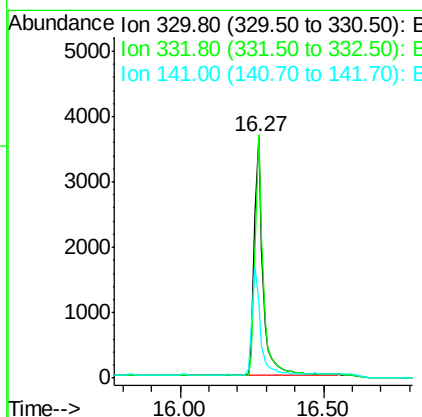
Delta R.T. -0.02 min

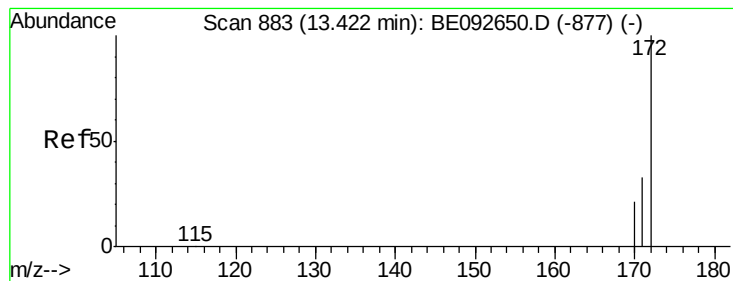
Lab File: BE092725.D

Acq: 10 Feb 2017 17:20

Tgt Ion:330 Resp: 7553

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 96.8  | 75.4  | 113.0 |
| 141 | 43.7  | 31.0  | 46.6  |





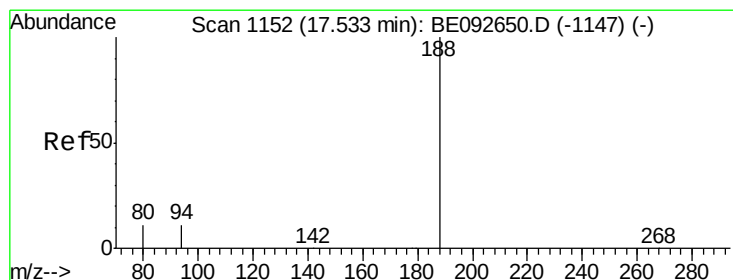
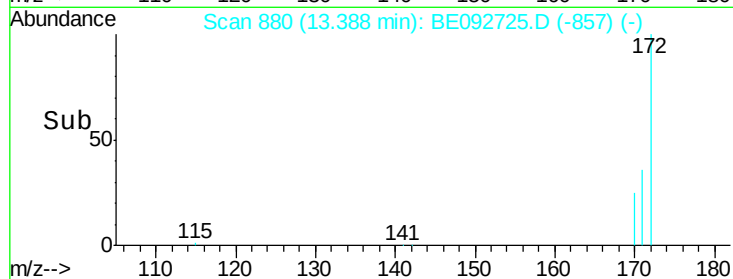
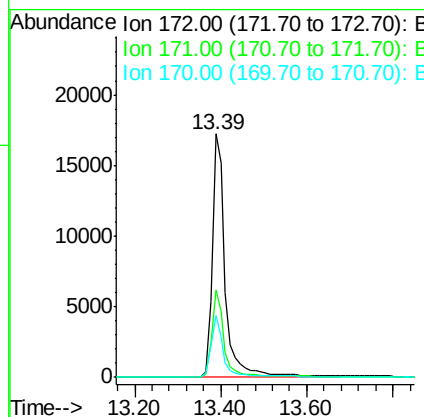
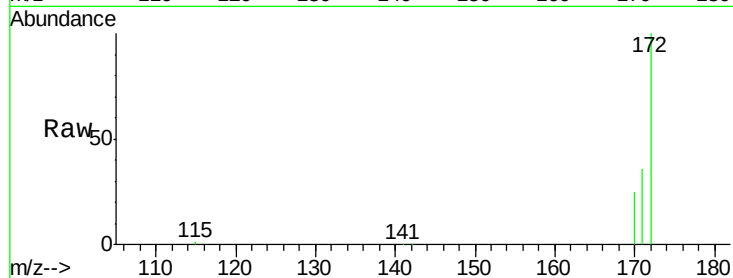
#14  
2-Fluorobiphenyl  
Concen: 5.49 ng  
RT: 13.39 min Scan# 880  
Delta R.T. -0.03 min  
Lab File: BE092725.D  
Acq: 10 Feb 2017 17:20

Instrument :  
BNA\_E  
ClientSampleId :  
OUTFALL001-170207

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 30.1  | 45.1  |
| 170     | 25.3  | 21.8  | 32.6  |

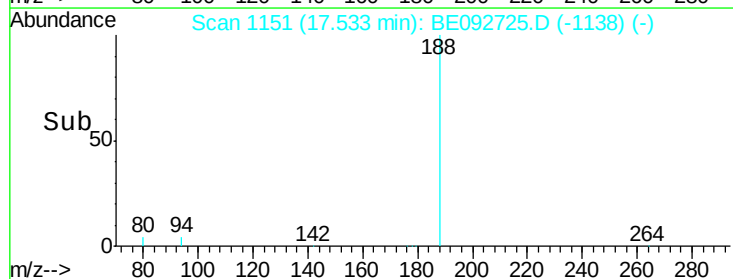
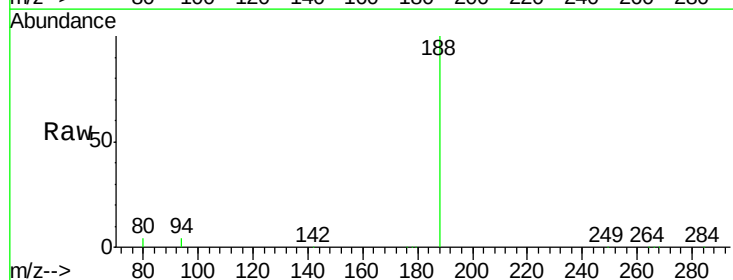
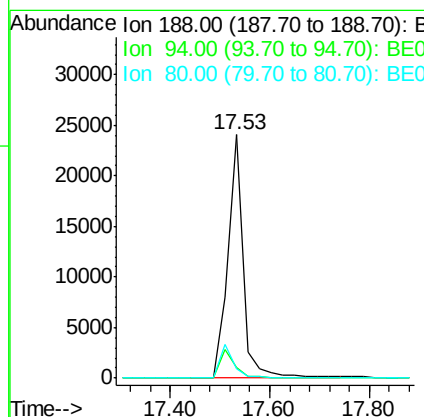
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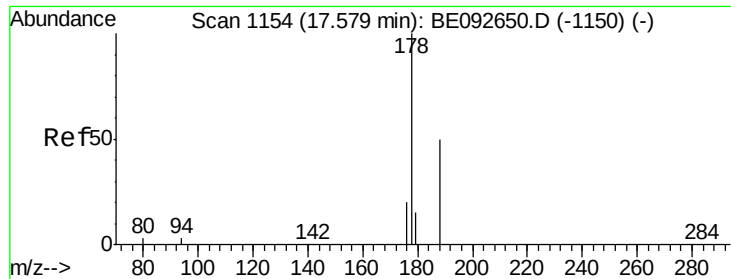
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#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.53 min Scan# 1151  
Delta R.T. 0.00 min  
Lab File: BE092725.D  
Acq: 10 Feb 2017 17:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 4.3   | 3.2   | 4.8   |
| 80      | 3.8   | 2.6   | 3.8   |





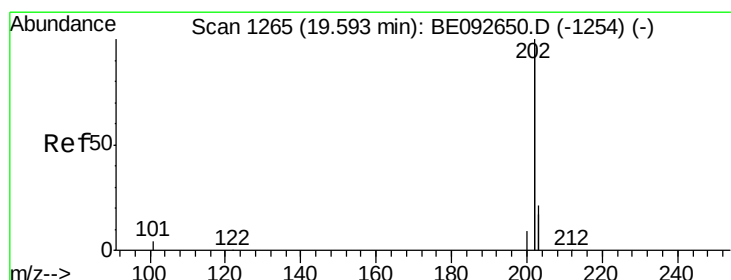
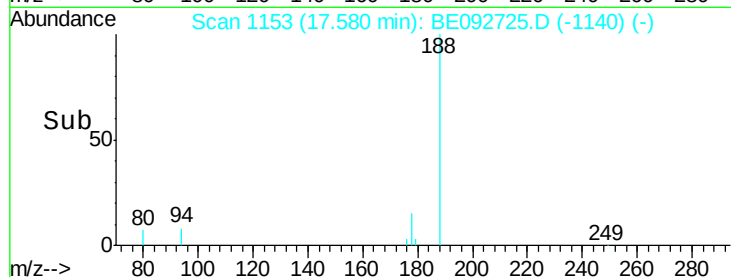
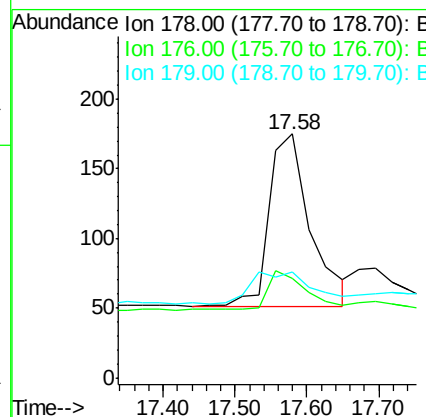
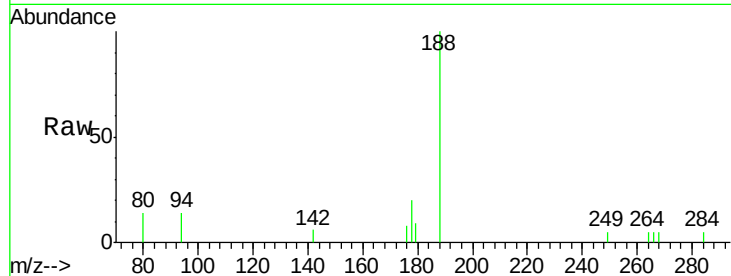
#21  
Phenanthrene  
Concen: 0.04 ng  
RT: 17.58 min Scan# 1153  
Delta R.T. 0.00 min  
Lab File: BE092725.D  
Acq: 10 Feb 2017 17:20

Instrument :  
BNA\_E  
ClientSampleId :  
OUTFALL001-170207

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 0.0   | 15.8  | 23.8# |
| 179     | 0.0   | 16.0  | 24.0# |

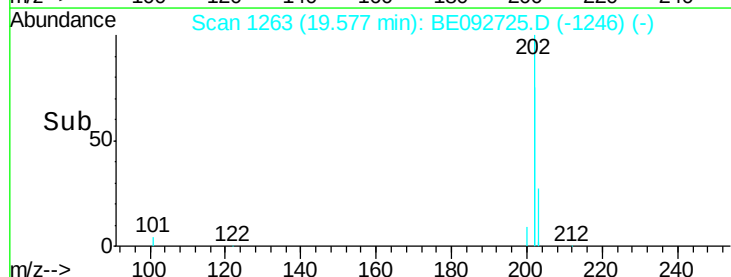
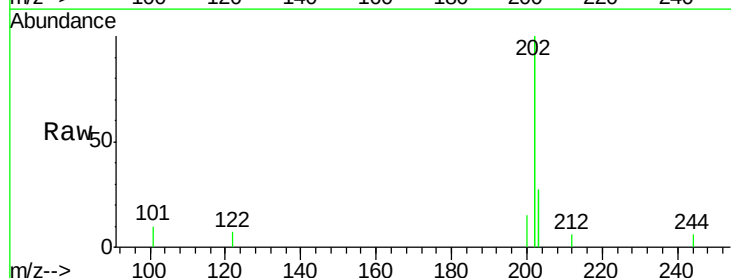
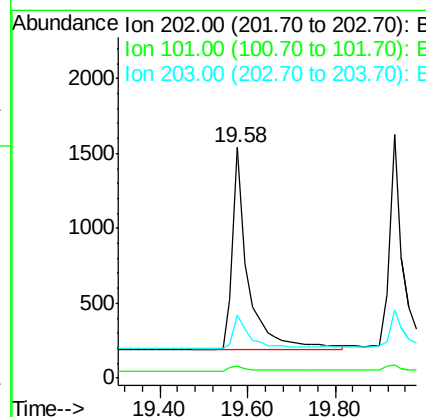
Manual Integrations  
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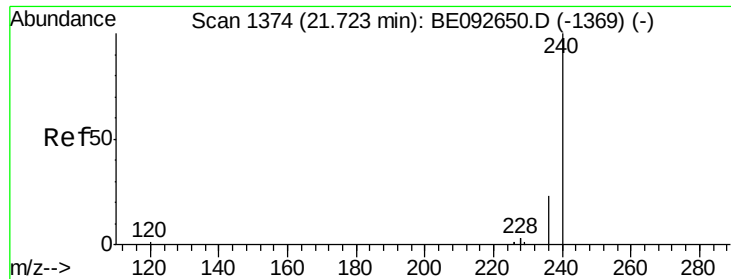


#23  
Fluoranthene  
Concen: 0.07 ng  
RT: 19.58 min Scan# 1263  
Delta R.T. -0.02 min  
Lab File: BE092725.D  
Acq: 10 Feb 2017 17:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 2.8   | 2.2   | 3.4   |
| 203     | 18.1  | 13.7  | 20.5  |







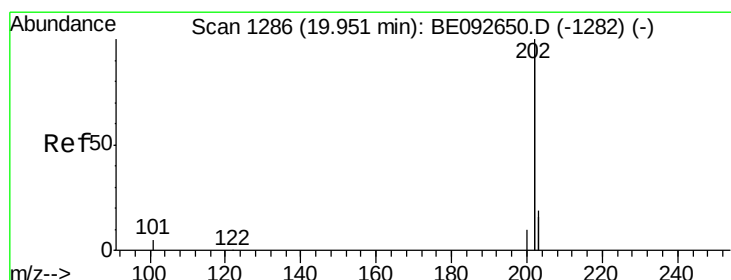
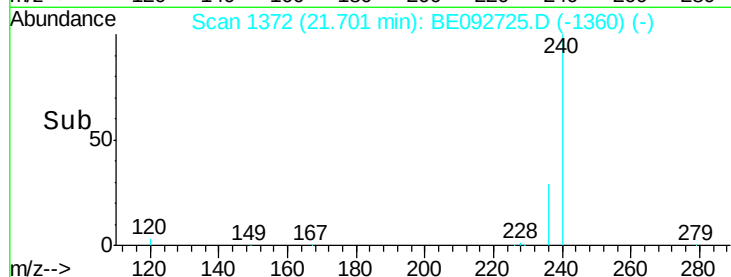
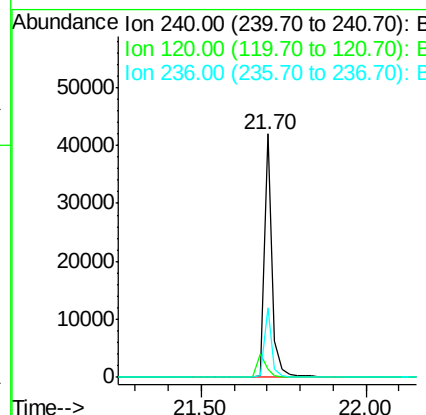
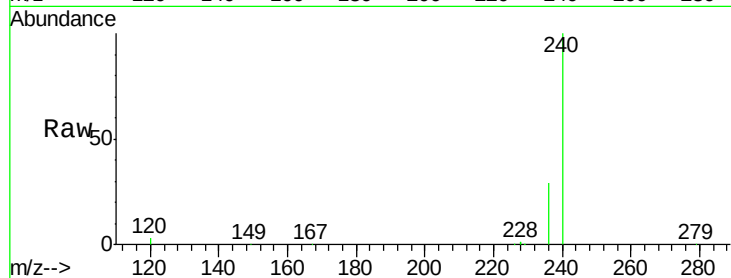
#24  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 21.70 min Scan# 1372  
 Delta R.T. -0.02 min  
 Lab File: BE092725.D  
 Acq: 10 Feb 2017 17:20

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OUTFALL001-170207

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 3.4   | 2.6   | 4.0   |
| 236     | 28.6  | 24.6  | 37.0  |

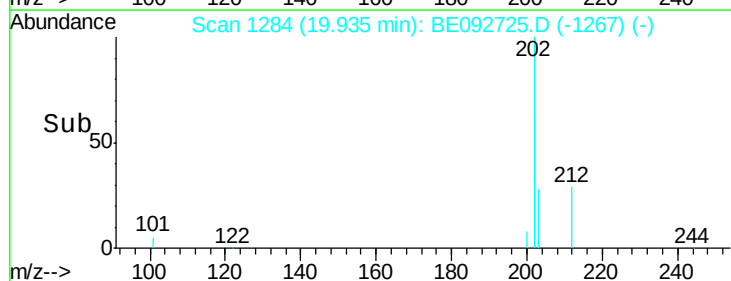
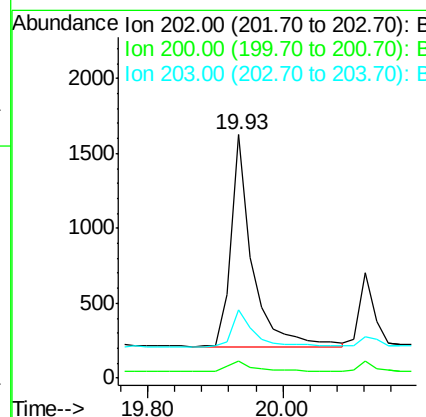
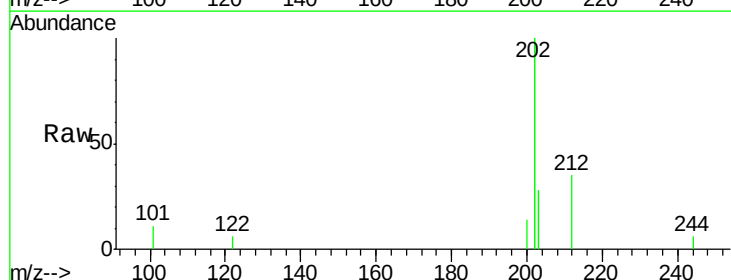
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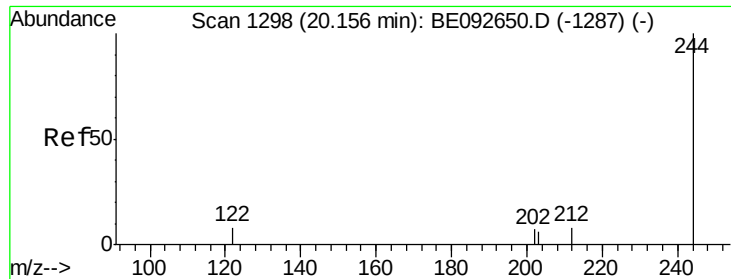
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#25  
 Pyrene  
 Concen: 0.04 ng  
 RT: 19.93 min Scan# 1284  
 Delta R.T. -0.02 min  
 Lab File: BE092725.D  
 Acq: 10 Feb 2017 17:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 5.5   | 4.2   | 6.4   |
| 203     | 18.1  | 13.9  | 20.9  |





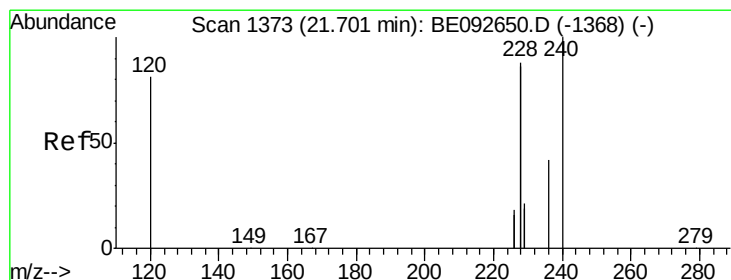
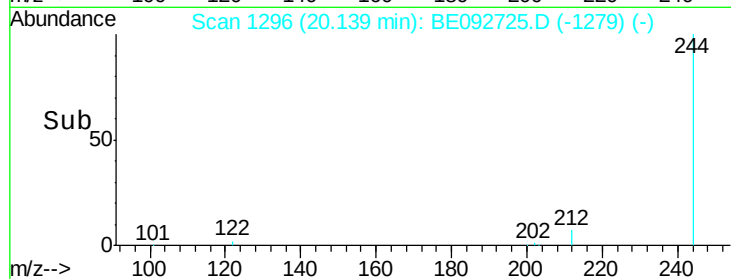
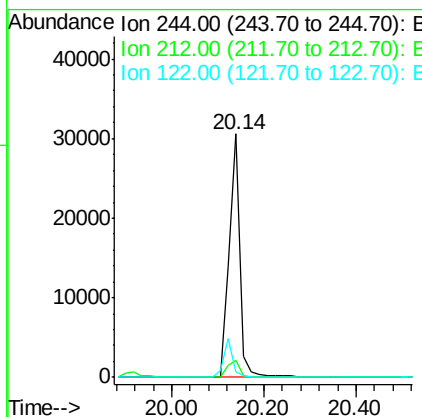
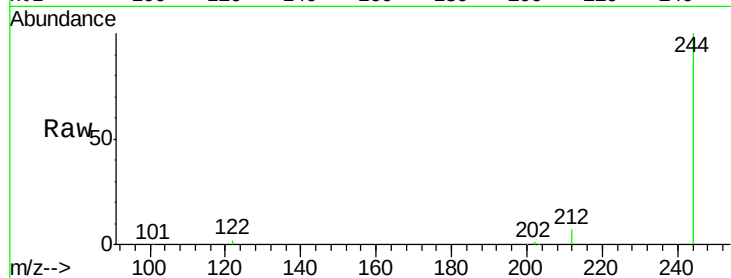
#26  
 Terphenyl-d14  
 Concen: 5.07 ng  
 RT: 20.14 min Scan# 1296  
 Delta R.T. -0.02 min  
 Lab File: BE092725.D  
 Acq: 10 Feb 2017 17:20

Instrument :  
 BNA\_E  
 ClientSampleId :  
 OUTFALL001-170207

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 244     | 100   | 49982 |       |       |
| 212     | 7.2   |       | 6.7   | 10.1  |
| 122     | 2.3   |       | 3.6   | 5.4#  |

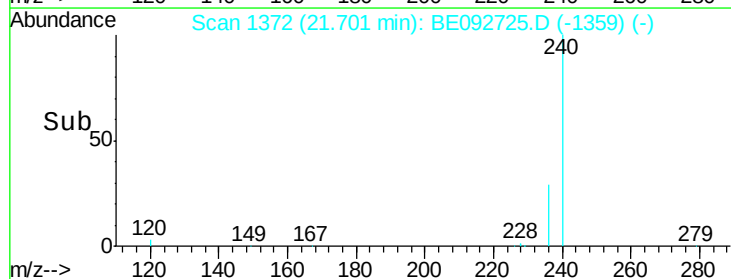
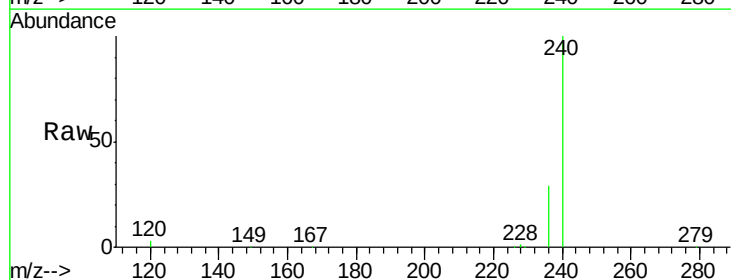
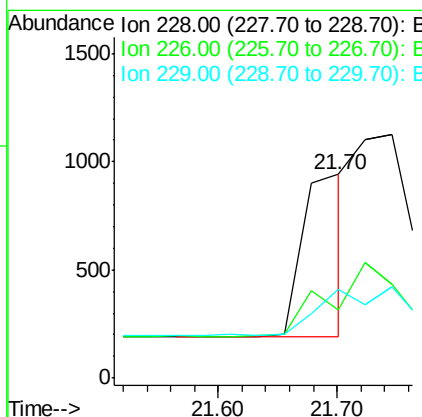
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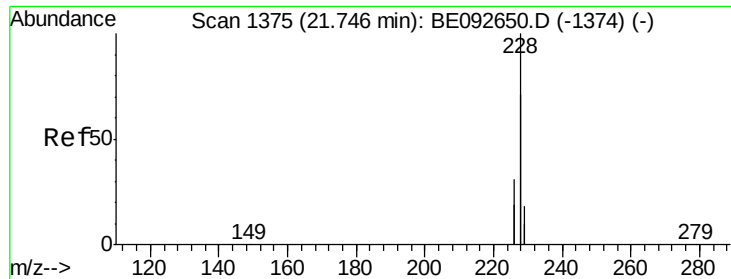
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#27  
 Benzo(a)anthracene  
 Concen: 0.03 ng m  
 RT: 21.70 min Scan# 1372  
 Delta R.T. 0.00 min  
 Lab File: BE092725.D  
 Acq: 10 Feb 2017 17:20

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 228     | 100   | 2008 |       |       |
| 226     | 33.8  |      | 23.6  | 35.4  |
| 229     | 43.3  |      | 13.3  | 19.9# |





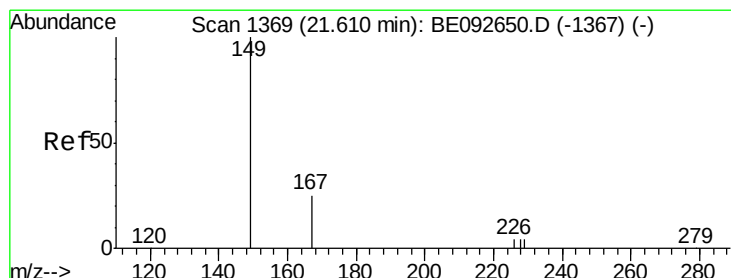
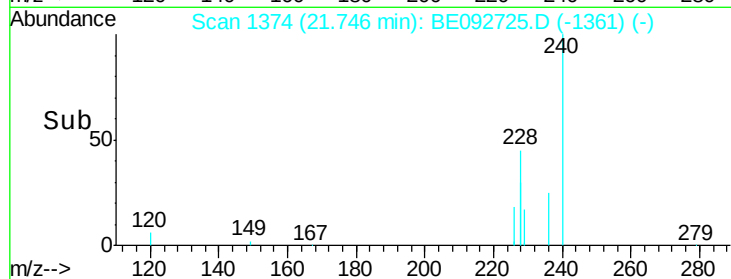
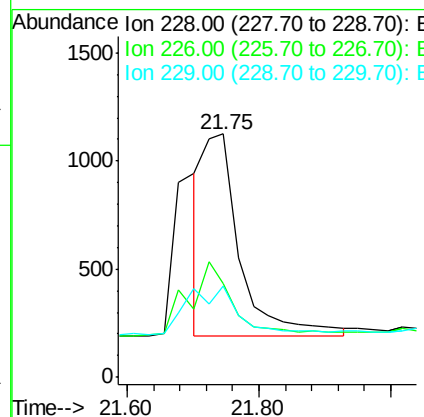
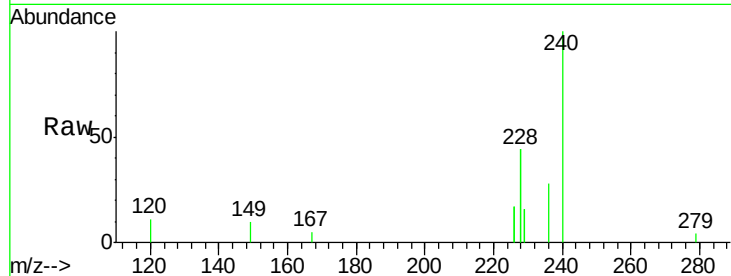
#28  
Chrysene  
Concen: 0.05 ng m  
RT: 21.75 min Scan# 1374  
Delta R.T. 0.00 min  
Lab File: BE092725.D  
Acq: 10 Feb 2017 17:20

Instrument :  
BNA\_E  
ClientSampleId :  
OUTFALL001-170207

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 38.7  | 36.3  | 54.5  |
| 229     | 37.3  | 10.6  | 16.0  |

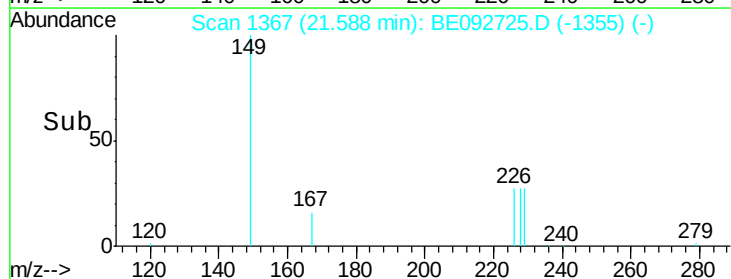
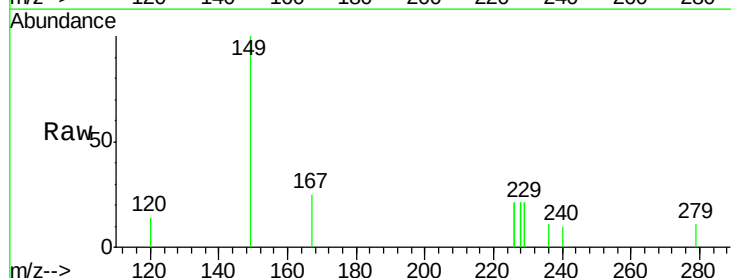
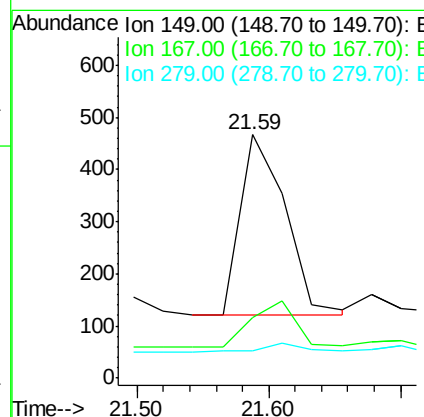
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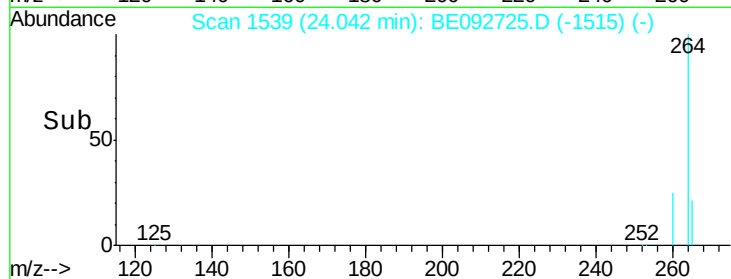
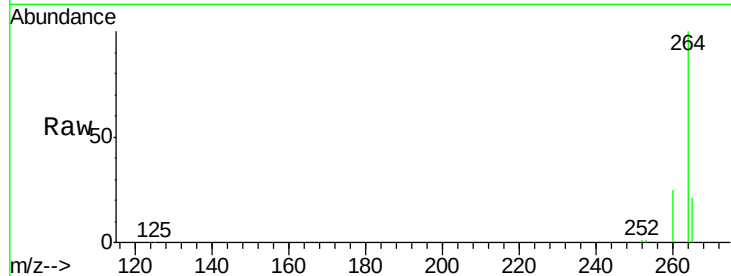
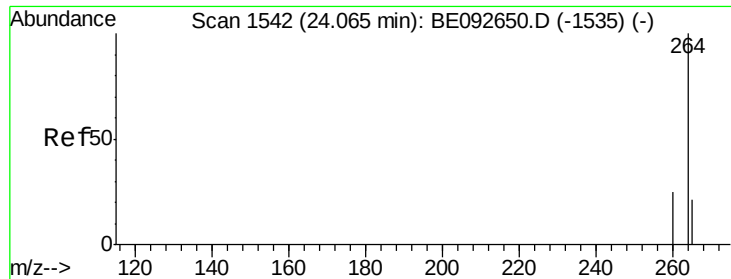
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#29  
Bis(2-ethylhexyl)phthalate  
Concen: 0.26 ng  
RT: 21.59 min Scan# 1367  
Delta R.T. -0.02 min  
Lab File: BE092725.D  
Acq: 10 Feb 2017 17:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 0.0   | 16.0  | 24.0  |
| 279     | 0.0   | 16.0  | 24.0  |





#31  
Perylene-d12  
Concen: 5.00 ng  
RT: 24.04 min Scan# 1539  
Delta R.T. -0.02 min  
Lab File: BE092725.D  
Acq: 10 Feb 2017 17:20

Instrument :  
BNA\_E  
ClientSampleId :  
OUTFALL001-170207

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.2  | 20.1  | 30.1  |
| 265     | 21.5  | 17.9  | 26.9  |

Manual Integrations  
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