

Data Path : Z:\HPCHEM1\BNA E\DATA\BE030617\  
 Data File : BE092801.D  
 Acq On : 6 Mar 2017 23:54  
 Operator : SJ/MA  
 Sample : I2052-05  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 CPS113051

Manual Integrations  
 APPROVED

mohammad  
 3/7/2017 4:23:34 PM

Quant Time: Mar 07 02:47:12 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE030617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 06 15:46:01 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.09  | 152  | 9670     | 5.00  | ng    | -0.02    |
| 7) Naphthalene-d8              | 10.88 | 136  | 42696    | 5.00  | ng    | -0.02    |
| 12) Acenaphthene-d10           | 14.75 | 164  | 25910    | 5.00  | ng    | -0.02    |
| 18) Phenanthrene-d10           | 17.51 | 188  | 62788    | 5.00  | ng    | 0.00     |
| 24) Chrysene-d12               | 21.68 | 240  | 88287    | 5.00  | ng    | -0.02    |
| 31) Perylene-d12               | 24.01 | 264  | 75943    | 5.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 4) 2-Fluorophenol              | 5.60  | 112  | 8421     | 4.12  | ng    | -0.03    |
| 5) Phenol-d6                   | 7.27  | 99   | 6263     | 2.57  | ng    | -0.05    |
| 8) Nitrobenzene-d5             | 9.27  | 82   | 11911    | 4.56  | ng    | -0.05    |
| 13) 2,4,6-Tribromophenol       | 16.25 | 330  | 9773     | 14.34 | ng    | -0.03    |
| 14) 2-Fluorobiphenyl           | 13.36 | 172  | 31121    | 5.09  | ng    | -0.03    |
| 26) Terphenyl-d14              | 20.10 | 244  | 52911    | 4.97  | ng    | -0.03    |
| Target Compounds               |       |      |          |       |       |          |
| 9) Naphthalene                 | 10.91 | 128  | 1040m    | 0.11  | ng    | Qvalue   |
| 17) Fluorene                   | 15.80 | 166  | 733      | 0.10  | ng    | 99       |
| 29) Bis(2-ethylhexyl)phthalate | 21.59 | 149  | 4763     | 0.68  | ng    | # 72     |

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

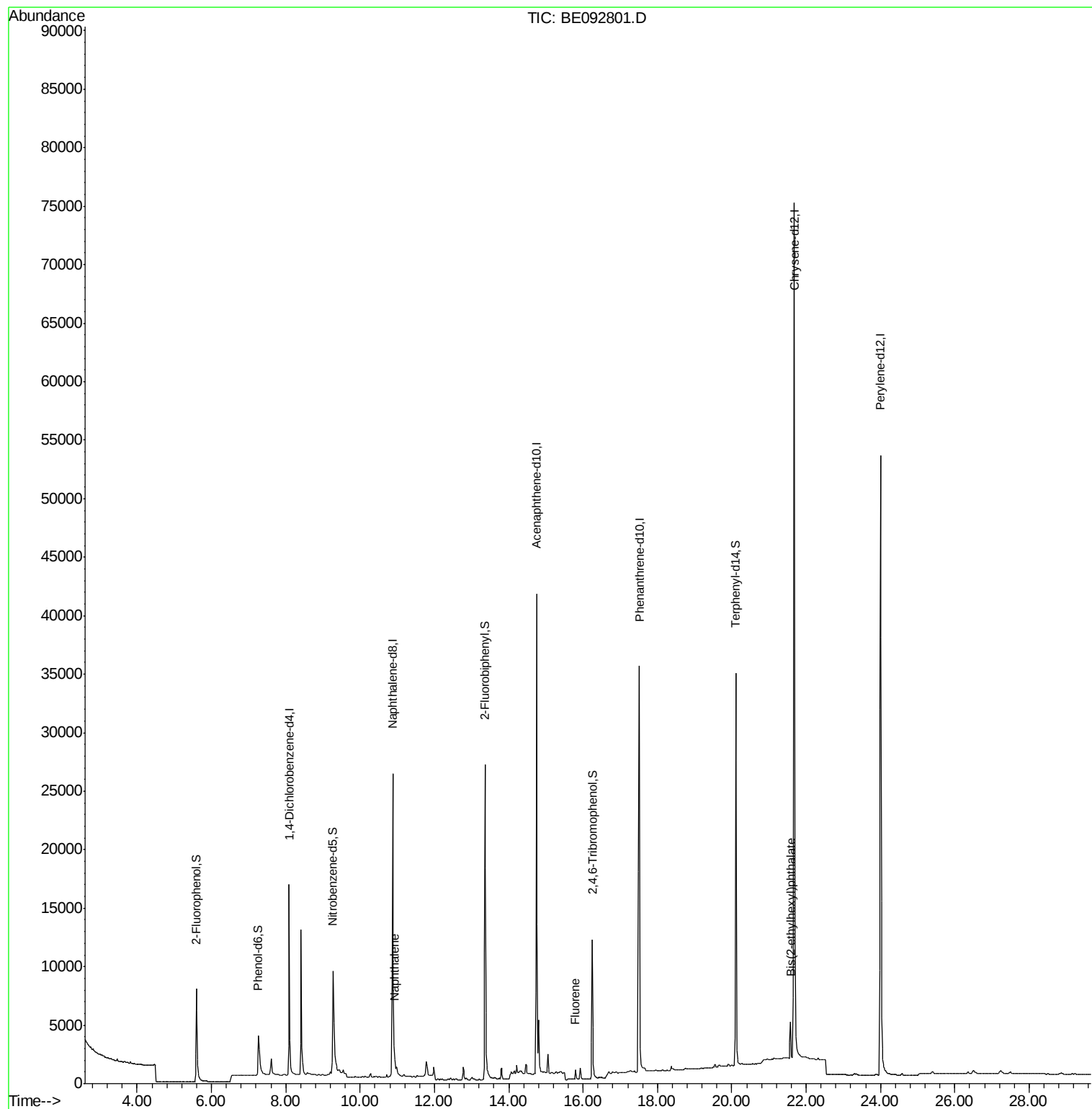
Data Path : Z:\HPCHEM1\BNA E\DATA\BE030617\  
Data File : BE092801.D  
Acq On : 6 Mar 2017 23:54  
Operator : SJ/MA  
Sample : I2052-05  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

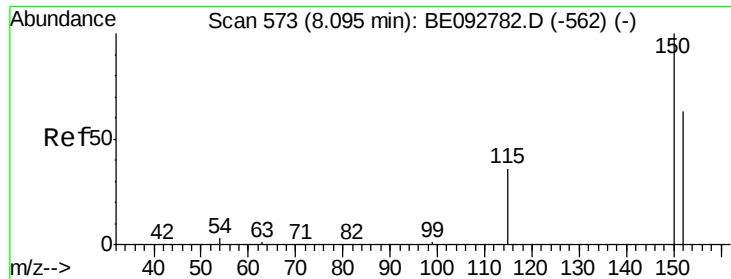
Instrument :  
BNA\_E  
ClientSampleId :  
CPS113051

Manual Integrations  
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Quant Time: Mar 07 02:47:12 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE030617.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 06 15:46:01 2017  
Response via : Initial Calibration





#1

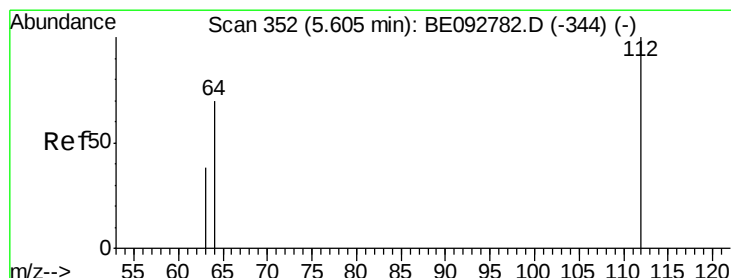
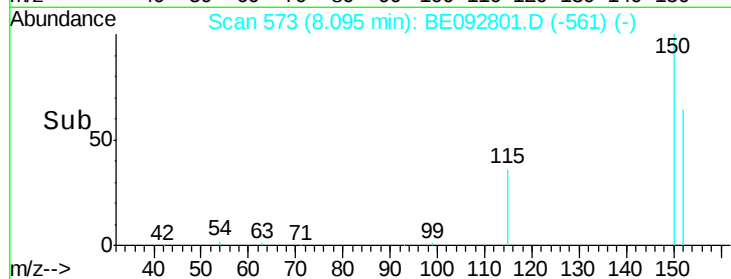
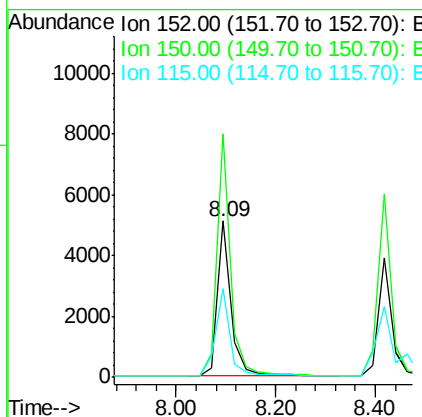
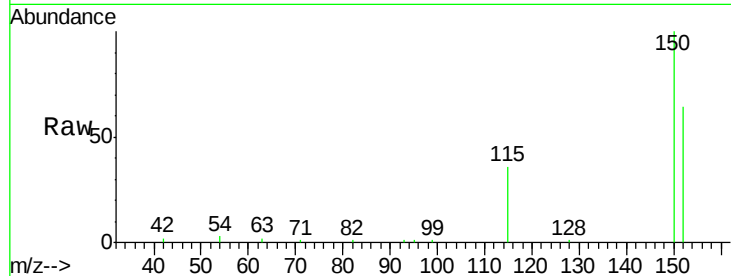
1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 8.09 min Scan# 573  
Delta R.T. -0.02 min  
Lab File: BE092801.D  
Acq: 6 Mar 2017 23:54

Instrument :  
BNA\_E  
ClientSampleId :  
CPS113051

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.6 | 106.0 | 159.0 |
| 115     | 56.3  | 31.2  | 46.8  |

Manual Integrations  
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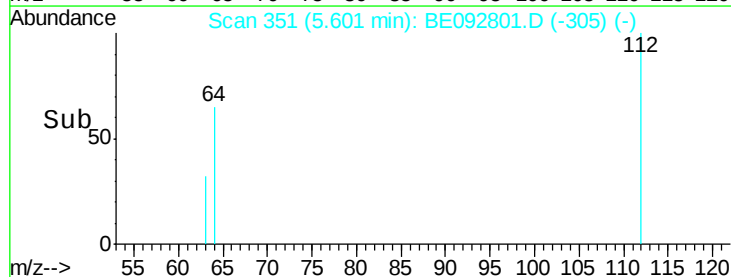
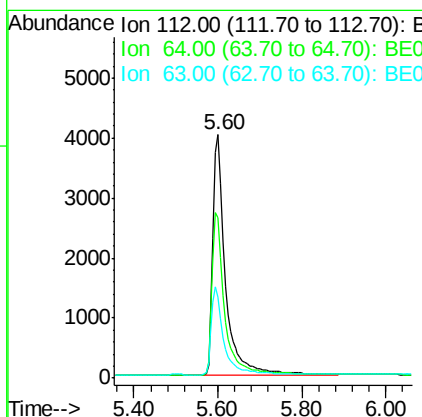
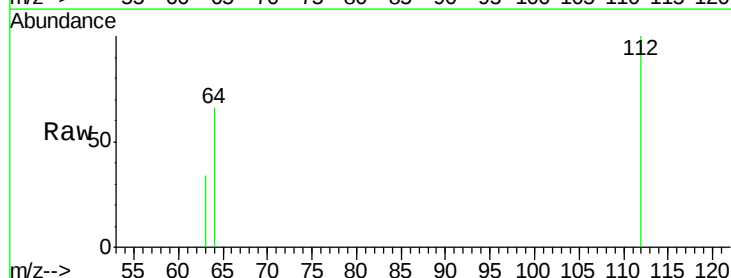
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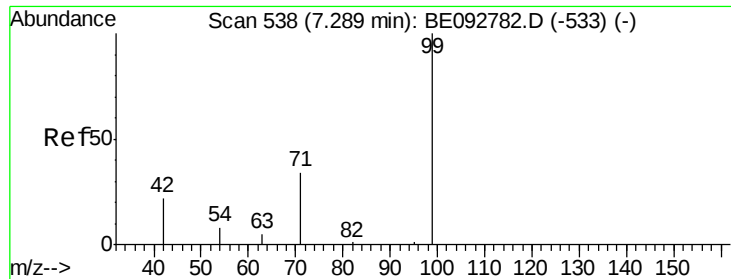


#4

2-Fluorophenol  
Concen: 4.12 ng  
RT: 5.60 min Scan# 351  
Delta R.T. -0.03 min  
Lab File: BE092801.D  
Acq: 6 Mar 2017 23:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.3  | 53.5  | 80.3  |
| 63      | 35.8  | 27.9  | 41.9  |





#5

Phenol-d6

Concen: 2.57 ng

RT: 7.27 min Scan# 537

Delta R.T. -0.05 min

Lab File: BE092801.D

Acq: 6 Mar 2017 23:54

Instrument :

BNA\_E

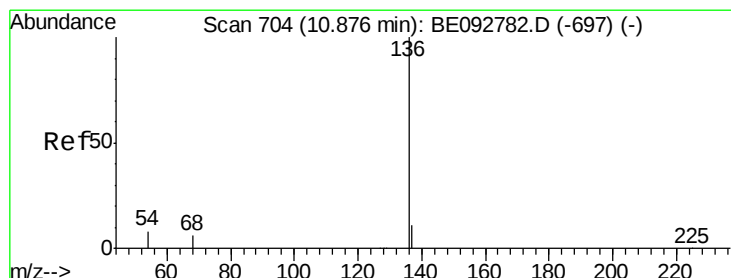
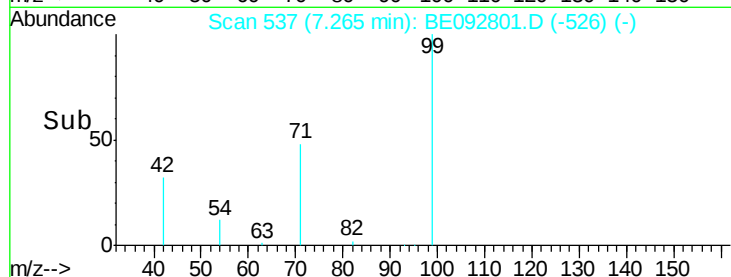
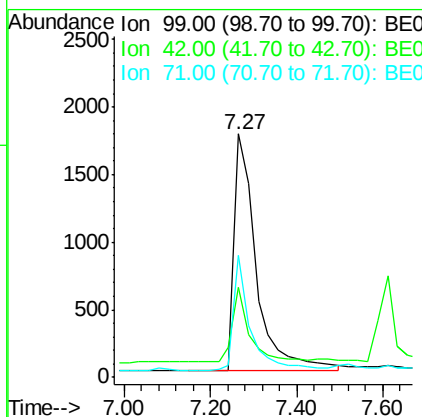
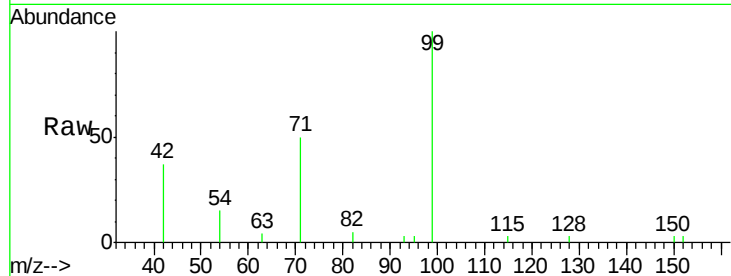
ClientSampleId :

CPS113051

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 6263  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 24.5  | 16.0  | 24.0# |
| 71       | 35.7  | 30.6  | 45.8  |

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#7

Naphthalene-d8

Concen: 5.00 ng

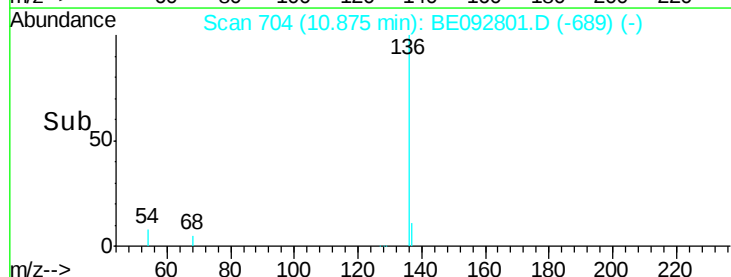
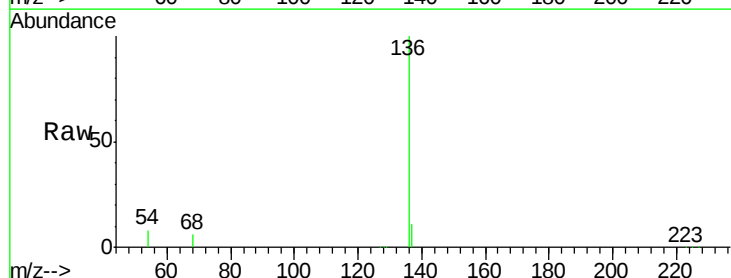
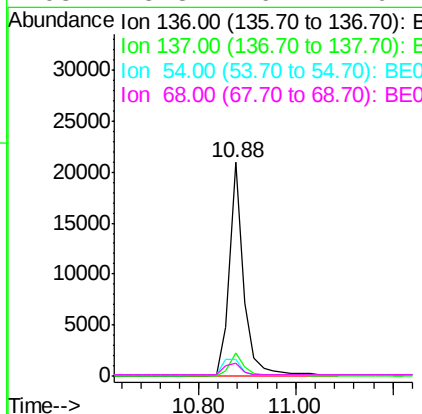
RT: 10.88 min Scan# 704

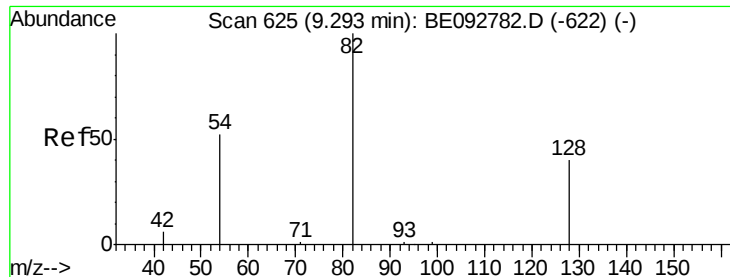
Delta R.T. -0.02 min

Lab File: BE092801.D

Acq: 6 Mar 2017 23:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 42696 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.1  | 8.2   | 12.4  |
| 54       | 7.9   | 9.6   | 14.4# |
| 68       | 5.8   | 6.7   | 10.1# |





#8

Nitrobenzene-d5

Concen: 4.56 ng

RT: 9.27 min Scan# 624

Delta R.T. -0.05 min

Lab File: BE092801.D

Acq: 6 Mar 2017 23:54

Instrument :

BNA\_E

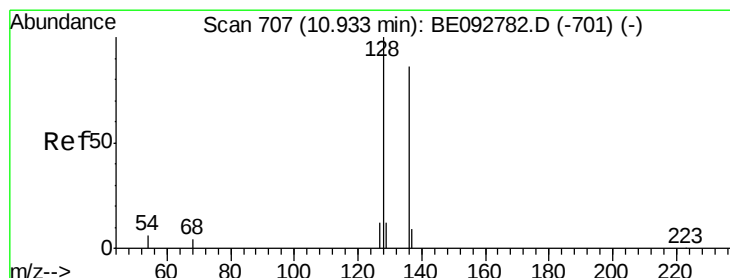
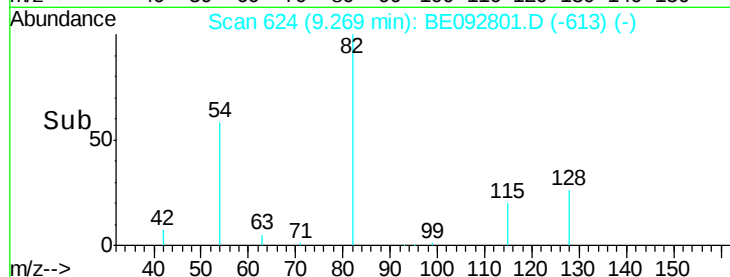
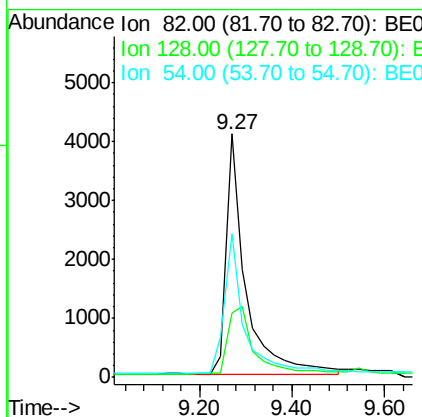
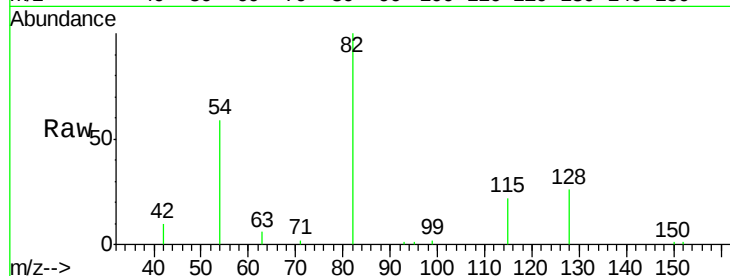
ClientSampleId :

CPS113051

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 82    | Resp: | 11911 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 26.5  | 39.0  | 58.4# |
| 54        | 59.1  | 44.8  | 67.2  |

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#9

Naphthalene

Concen: 0.11 ng m

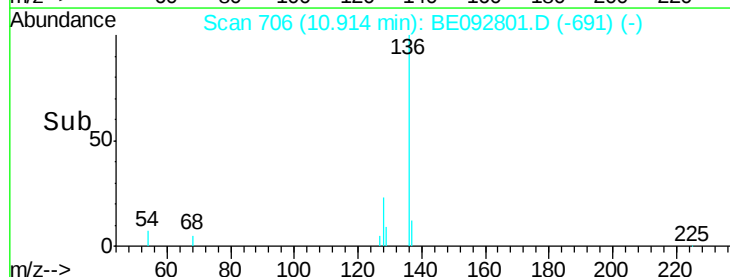
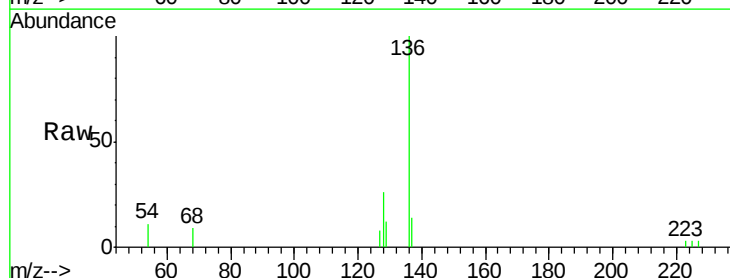
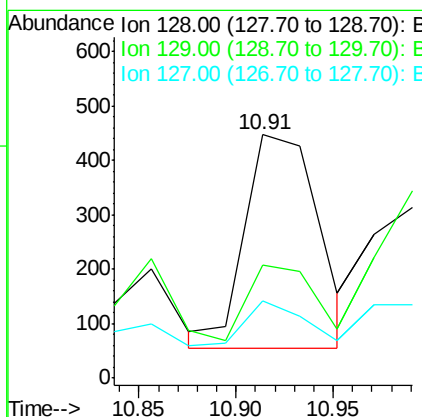
RT: 10.91 min Scan# 706

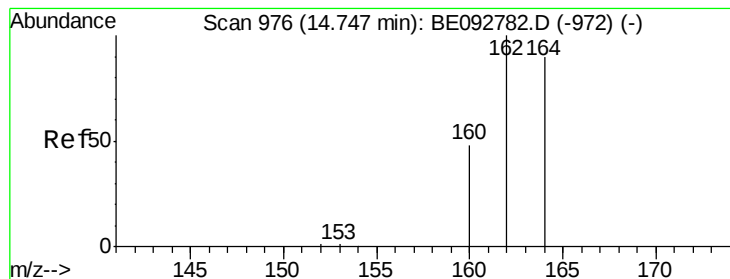
Delta R.T. -0.02 min

Lab File: BE092801.D

Acq: 6 Mar 2017 23:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 1040  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 46.8  | 11.2  | 16.8# |
| 127       | 32.0  | 11.6  | 17.4# |





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.75 min Scan# 976

Delta R.T. -0.02 min

Lab File: BE092801.D

Acq: 6 Mar 2017 23:54

Instrument :

BNA\_E

ClientSampleId :

CPS113051

Tot Ion:164 Resp: 25910

Ion Ratio Lower Upper

164 100

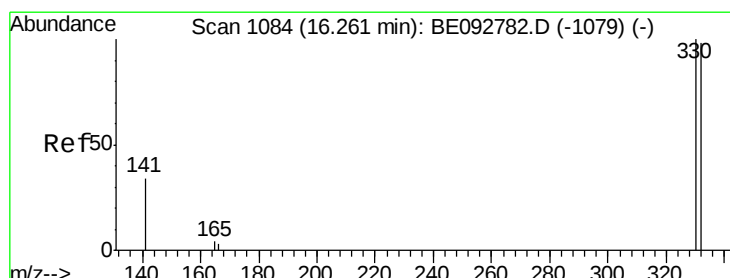
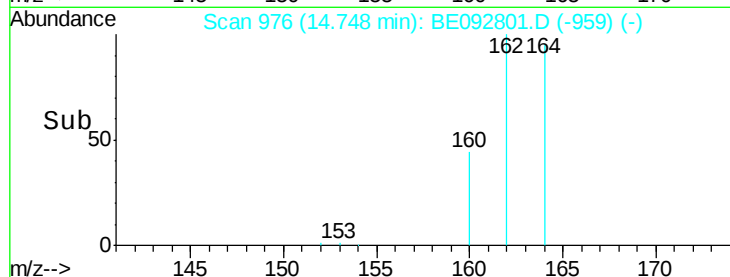
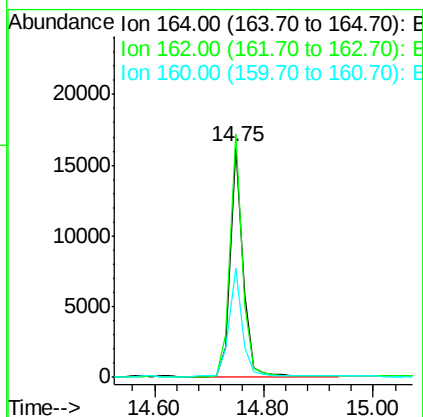
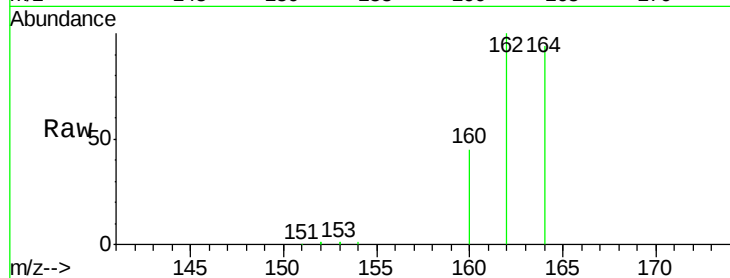
162 105.9 71.4 107.0

160 47.5 27.4 41.2#

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#13

2,4,6-Tribromophenol

Concen: 14.34 ng

RT: 16.25 min Scan# 1083

Delta R.T. -0.03 min

Lab File: BE092801.D

Acq: 6 Mar 2017 23:54

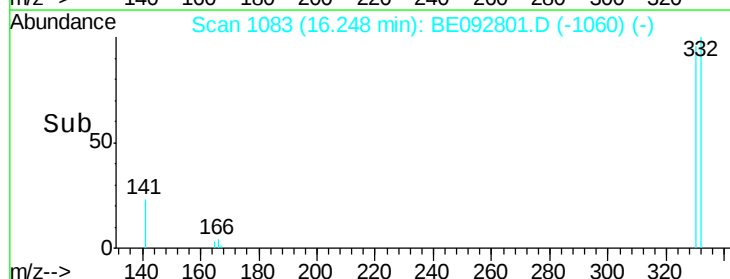
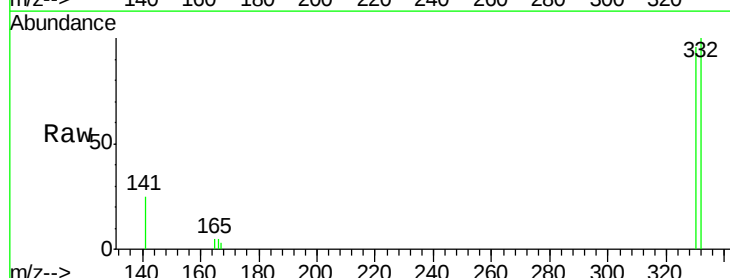
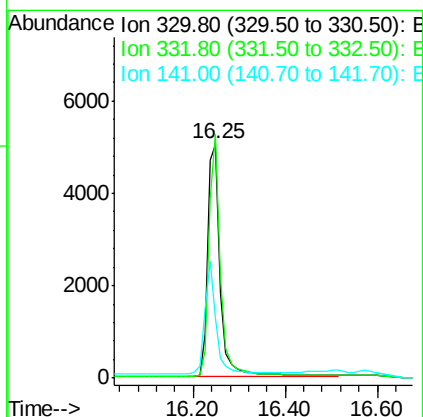
Tgt Ion:330 Resp: 9773

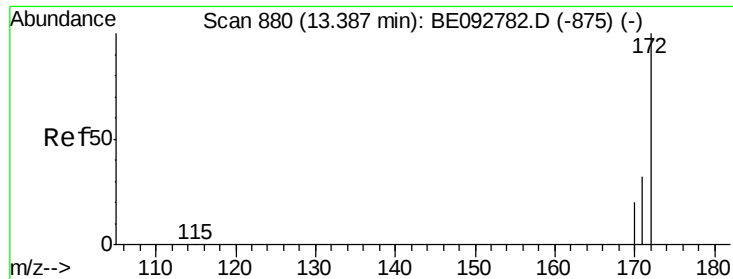
Ion Ratio Lower Upper

330 100

332 96.4 75.4 113.0

141 45.1 31.0 46.6





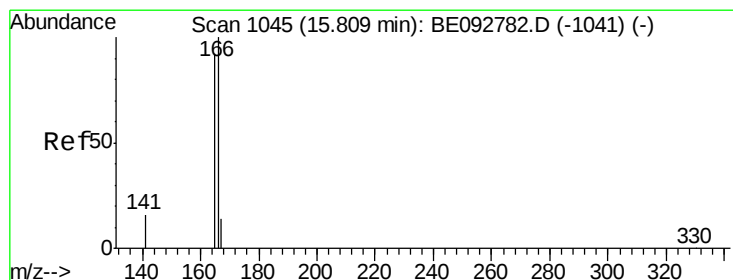
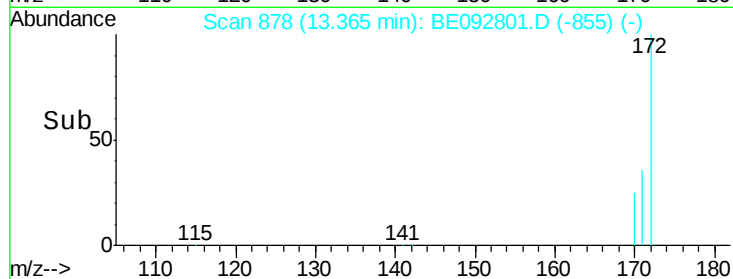
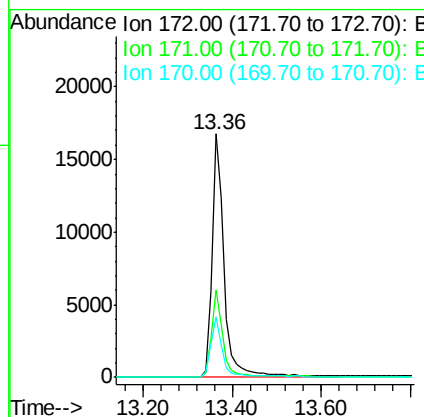
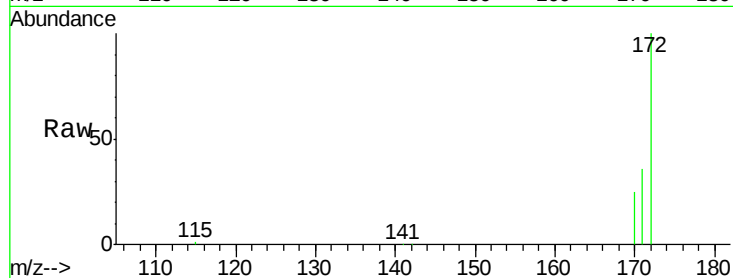
#14  
2-Fluorobiphenyl  
Concen: 5.09 ng  
RT: 13.36 min Scan# 878  
Delta R.T. -0.03 min  
Lab File: BE092801.D  
Acq: 6 Mar 2017 23:54

Instrument :  
BNA\_E  
ClientSampleId :  
CPS113051

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 30.1  | 45.1  |
| 170     | 25.1  | 21.8  | 32.6  |

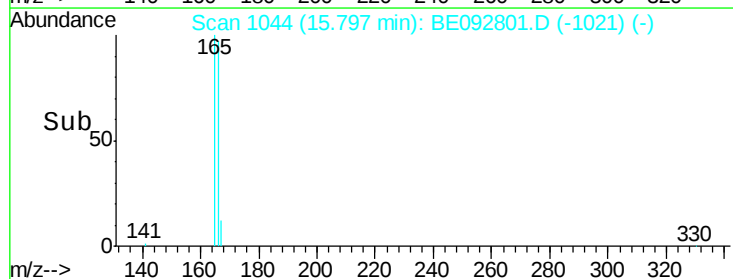
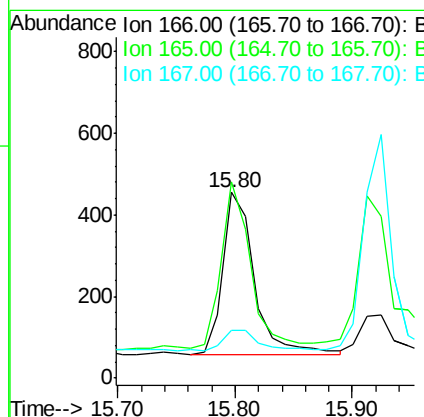
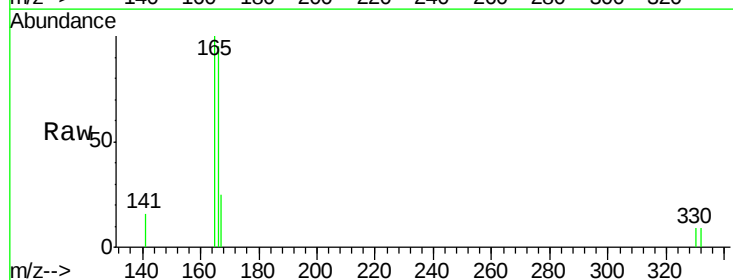
Manual Integrations  
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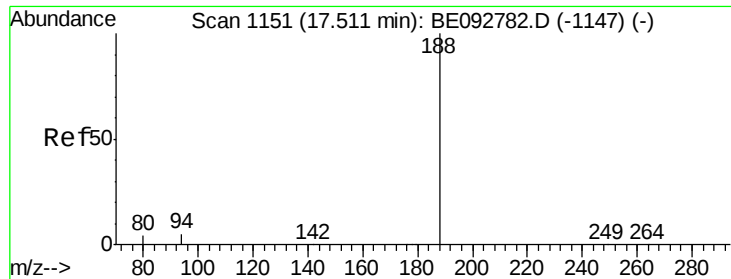
mohammad  
3/7/2017 4:23:34 PM



#17  
Fluorene  
Concen: 0.10 ng  
RT: 15.80 min Scan# 1044  
Delta R.T. -0.02 min  
Lab File: BE092801.D  
Acq: 6 Mar 2017 23:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 96.9  | 78.2  | 117.4 |
| 167     | 14.2  | 11.0  | 16.4  |





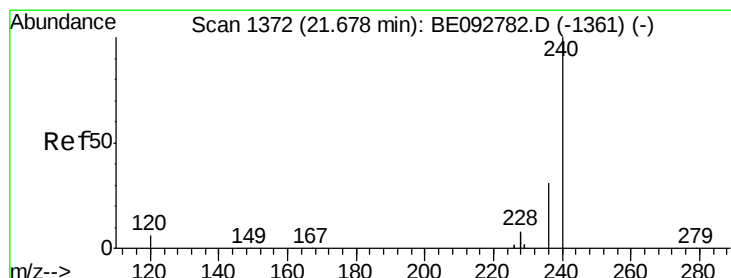
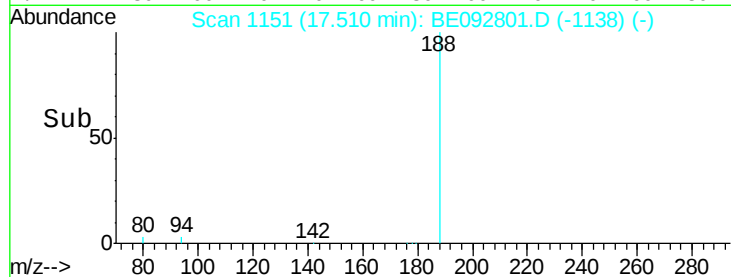
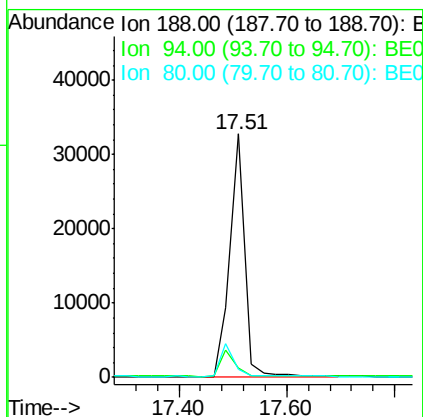
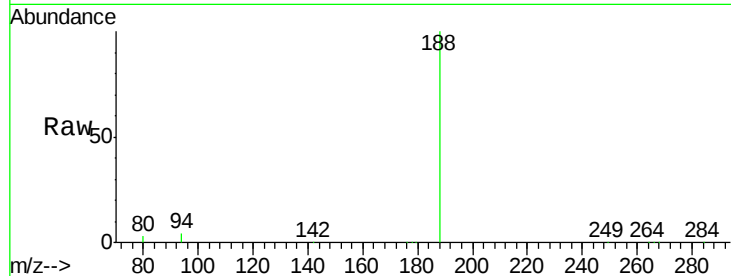
#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.51 min Scan# 1151  
Delta R.T. -0.00 min  
Lab File: BE092801.D  
Acq: 6 Mar 2017 23:54

Instrument :  
BNA\_E  
ClientSampleId :  
CPS113051

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 62788 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 3.8   | 3.2   | 4.8   |
| 80        | 3.1   | 2.6   | 3.8   |

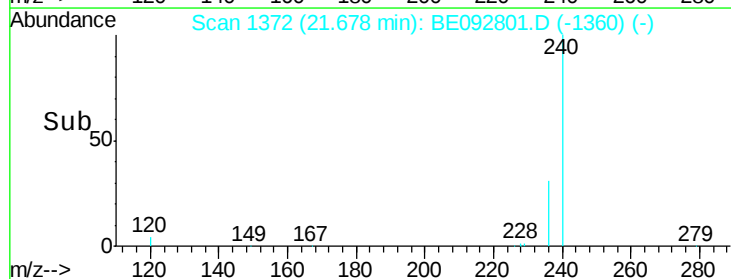
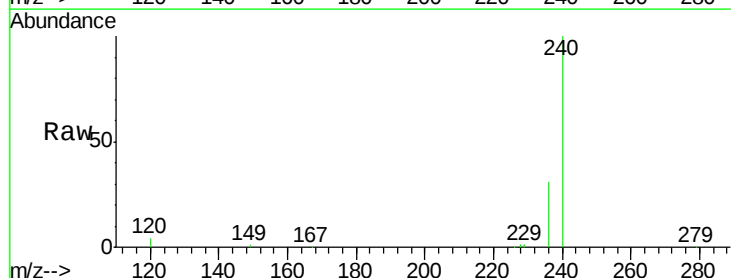
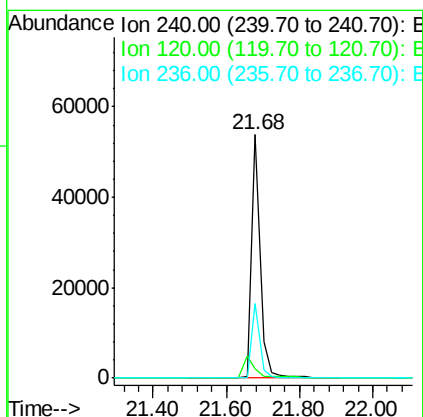
Manual Integrations  
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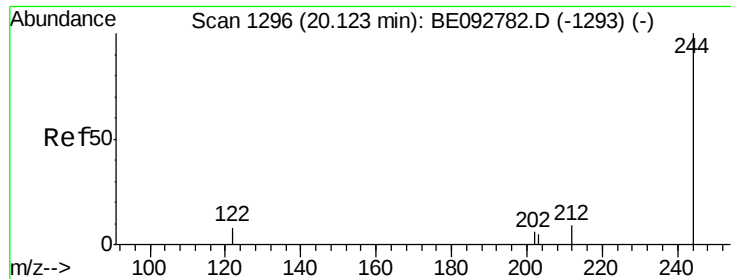
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#24  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.68 min Scan# 1372  
Delta R.T. -0.02 min  
Lab File: BE092801.D  
Acq: 6 Mar 2017 23:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 88287 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 4.1   | 2.6   | 4.0#  |
| 236       | 30.7  | 24.6  | 37.0  |





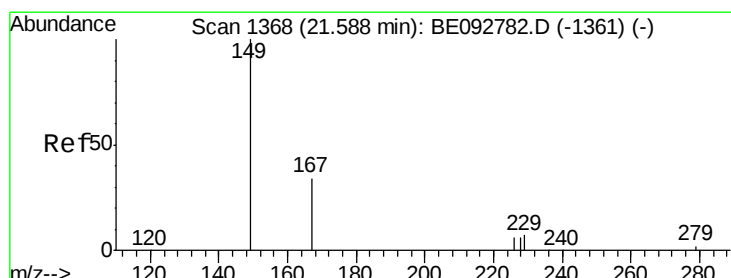
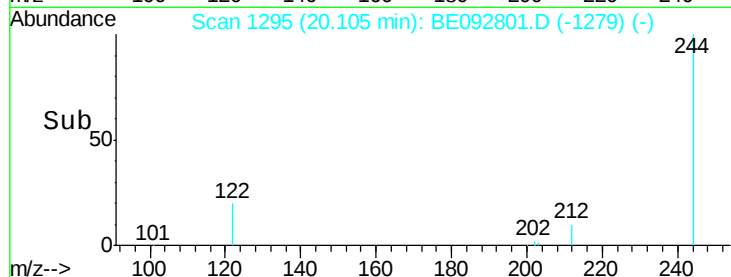
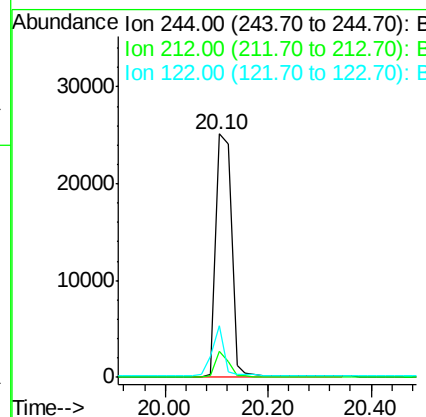
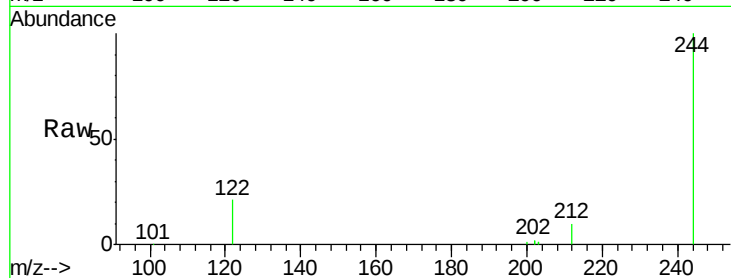
#26  
 Terphenyl-d14  
 Concen: 4.97 ng  
 RT: 20.10 min Scan# 1295  
 Delta R.T. -0.03 min  
 Lab File: BE092801.D  
 Acq: 6 Mar 2017 23:54

Instrument :  
 BNA\_E  
 ClientSampleId :  
 CPS113051

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.5  | 6.7   | 10.1# |
| 122     | 21.2  | 3.6   | 5.4#  |

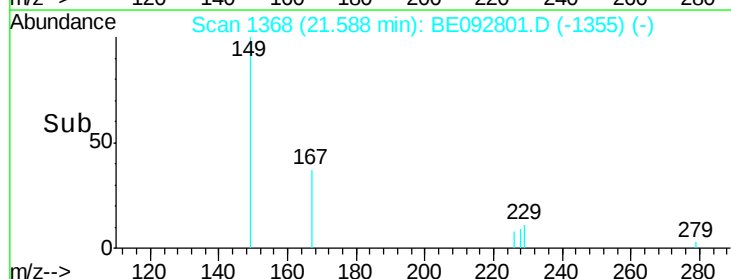
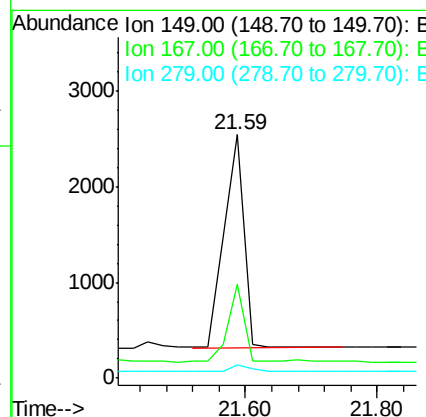
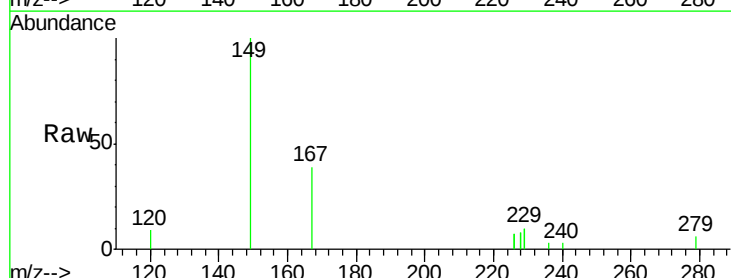
Manual Integrations  
 APPROVED

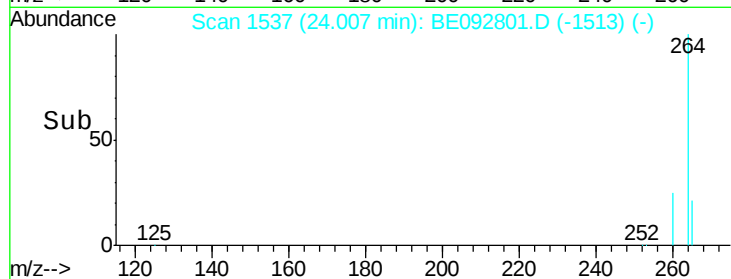
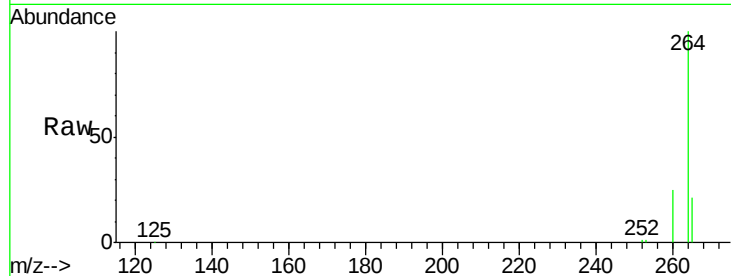
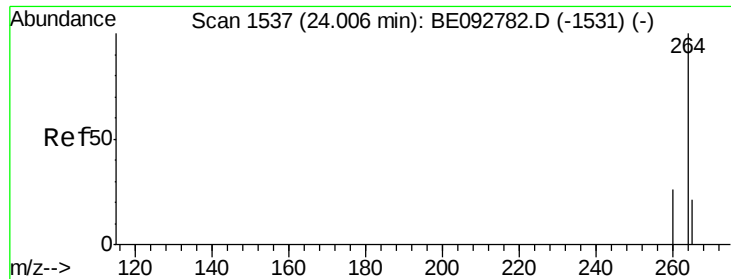
mohammad  
 3/7/2017 4:23:34 PM



#29  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.68 ng  
 RT: 21.59 min Scan# 1368  
 Delta R.T. 0.00 min  
 Lab File: BE092801.D  
 Acq: 6 Mar 2017 23:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 29.0  | 16.0  | 24.0# |
| 279     | 3.2   | 16.0  | 24.0# |





#31

Pervlene-d12

Concen: 5.00 ng

RT: 24.01 min Scan# 1537

Delta R.T. -0.02 min

Lab File: BE092801.D

Acq: 6 Mar 2017 23:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 264   | Resp: | 75943 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 25.2  | 20.1  | 30.1  |
| 265       | 21.5  | 17.9  | 26.9  |

Instrument :

BNA\_E

ClientSampleId :

CPS113051

Manual Integrations  
APPROVED

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