

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE102114\  
 Data File : BE088149.D  
 Acq On : 21 Oct 2014 19:05  
 Operator : TP/JJ  
 Sample : F4351-08  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 YS19-SW07-1014

Manual Integrations  
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 10/22/2014 1:53:43 PM

Quant Time: Oct 22 04:55:36 2014  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIM-PAH-BE102014.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 21 02:11:14 2014  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.14  | 152  | 33579    | 5.00 | ng    | 0.00     |
| 3) Naphthalene-d8           | 8.70  | 136  | 124081   | 5.00 | ng    | 0.00     |
| 7) Acenaphthene-d10         | 10.85 | 164  | 55955    | 5.00 | ng    | 0.00     |
| 12) Phenanthrene-d10        | 12.96 | 188  | 104072   | 5.00 | ng    | 0.00     |
| 16) Chrysene-d12            | 18.38 | 240  | 72962    | 5.00 | ng    | 0.00     |
| 22) Perylene-d12            | 21.44 | 264  | 68836    | 5.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |      |       |          |
| 4) Nitrobenzene-d5          | 7.82  | 82   | 47795    | 5.34 | ng    | 0.00     |
| 8) 2-Fluorobiphenyl         | 10.03 | 172  | 86648    | 5.61 | ng    | 0.00     |
| 18) Terphenyl-d14           | 16.15 | 244  | 96445    | 8.21 | ng    | 0.00     |
| Target Compounds            |       |      |          |      |       | Qvalue   |
| 14) Anthracene              | 13.09 | 178  | 1684m    | 0.02 | ng    |          |
| 15) Fluoranthene            | 15.24 | 202  | 1156     | 0.06 | ng    | 98       |
| 17) Pyrene                  | 15.70 | 202  | 1200     | 0.06 | ng    | 97       |
| 19) Benzo(a)anthracene      | 18.36 | 228  | 4075     | 0.06 | ng    | # 84     |
| 20) Chrysene                | 18.44 | 228  | 5066     | 0.08 | ng    | # 87     |

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

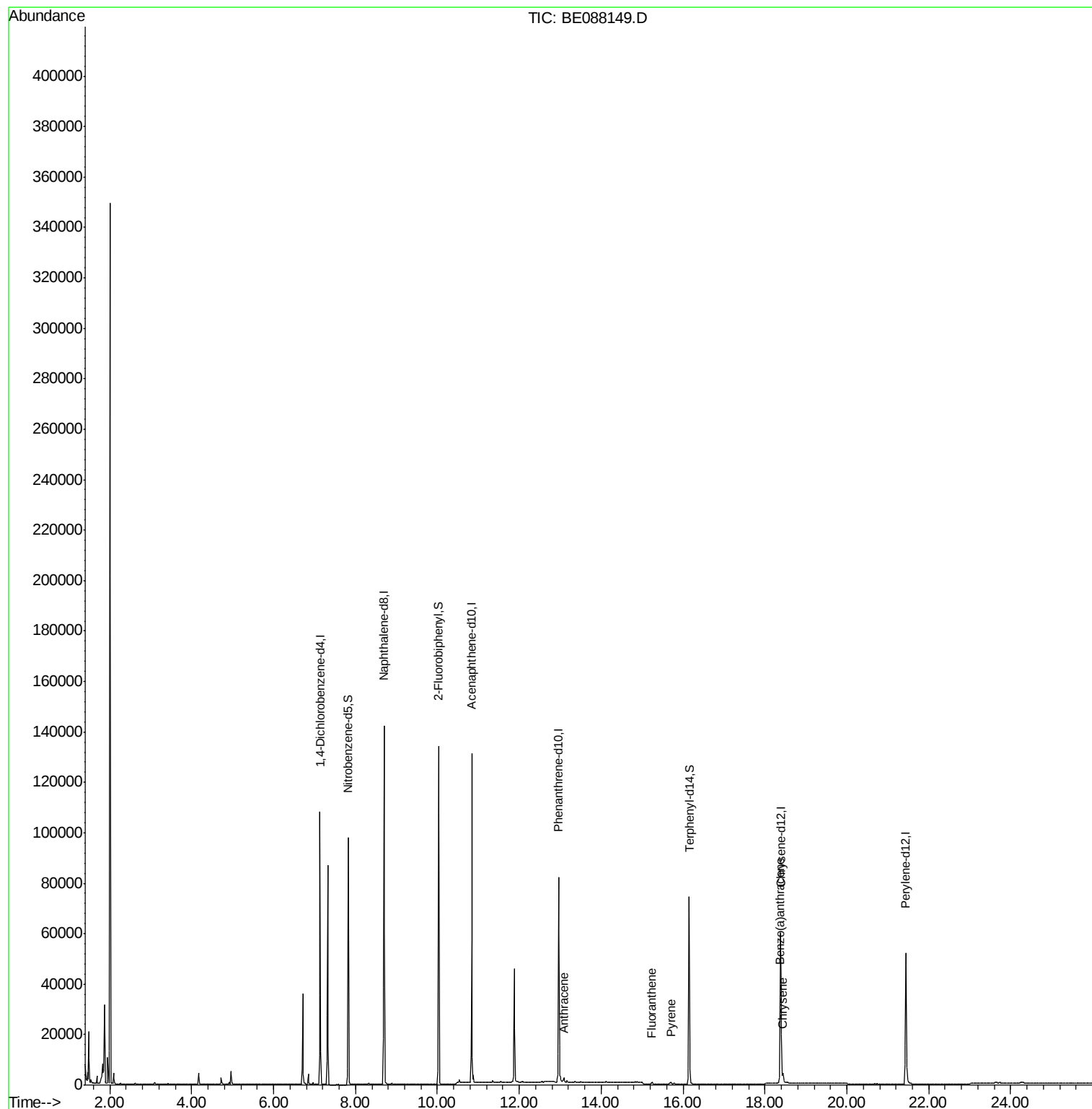
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE102114\  
Data File : BE088149.D  
Acq On : 21 Oct 2014 19:05  
Operator : TP/JJ  
Sample : F4351-08  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

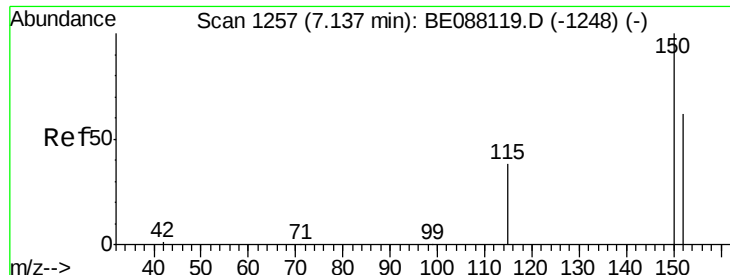
Instrument :  
BNA\_E  
ClientSampleId :  
YS19-SW07-1014

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Quant Time: Oct 22 04:55:36 2014  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIM-PAH-BE102014.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Oct 21 02:11:14 2014  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1257

Delta R.T. 0.00 min

Lab File: BE088149.D

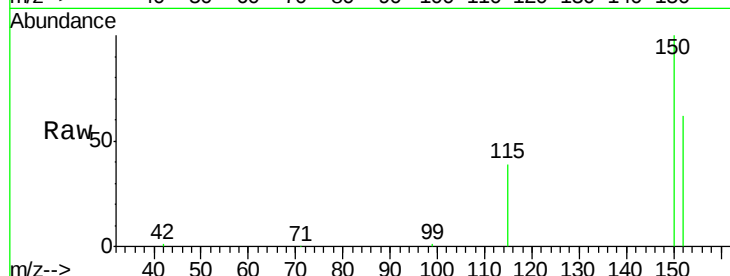
Acq: 21 Oct 2014 19:05

Instrument :

BNA\_E

ClientSampleId :

YS19-SW07-1014



Tgt Ion:152 Resp: 33579

Ion Ratio Lower Upper

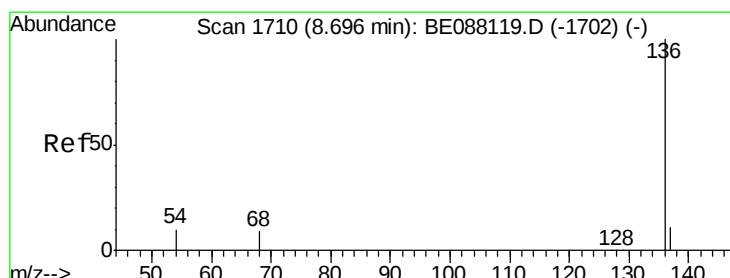
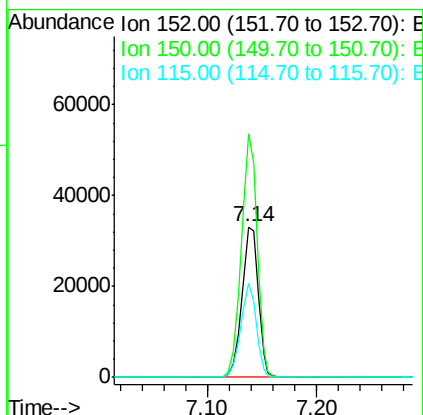
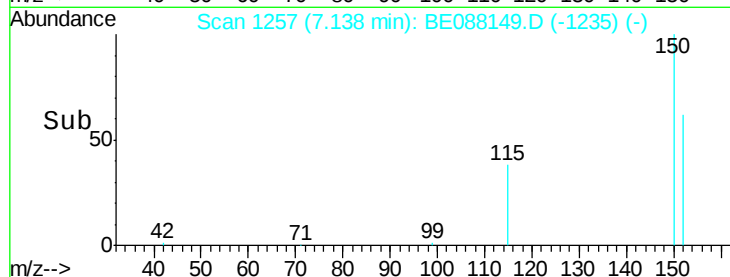
152 100

150 161.7 129.2 193.8

115 62.3 49.3 73.9

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#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.01 min

Lab File: BE088149.D

Acq: 21 Oct 2014 19:05

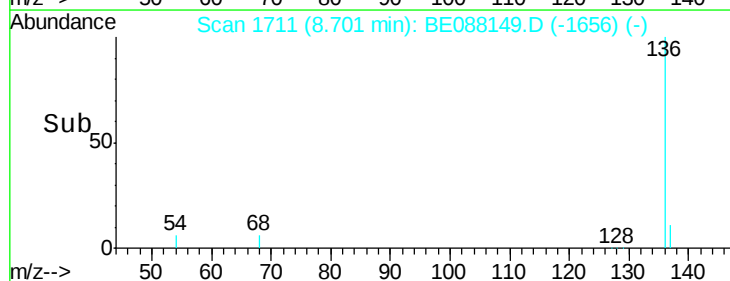
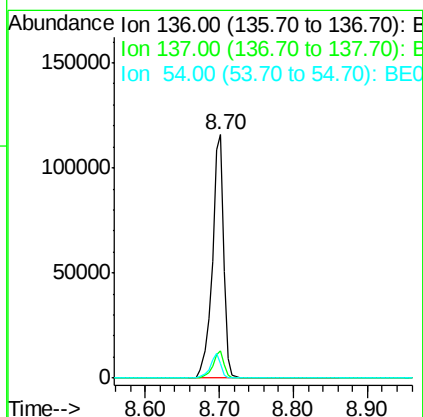
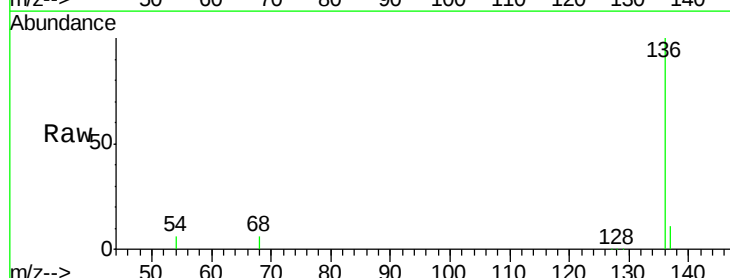
Tgt Ion:136 Resp: 124081

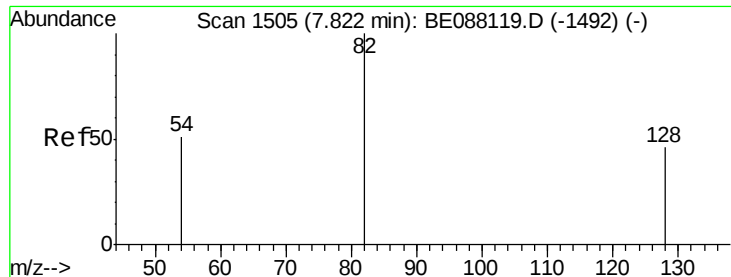
Ion Ratio Lower Upper

136 100

137 11.4 8.6 12.8

54 5.8 7.7 11.5#





#4

Nitrobenzene-d5

Concen: 5.34 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088149.D

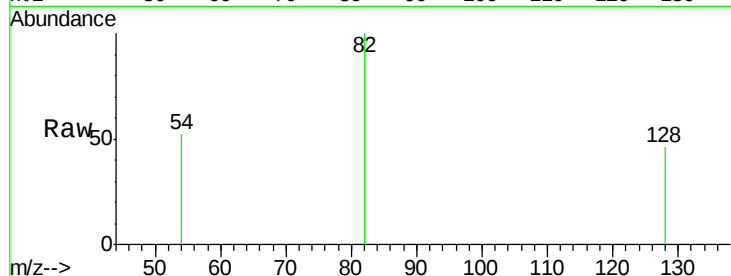
Acq: 21 Oct 2014 19:05

Instrument :

BNA\_E

ClientSampleId :

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Tgt Ion: 82 Resp: 47795

Ion Ratio Lower Upper

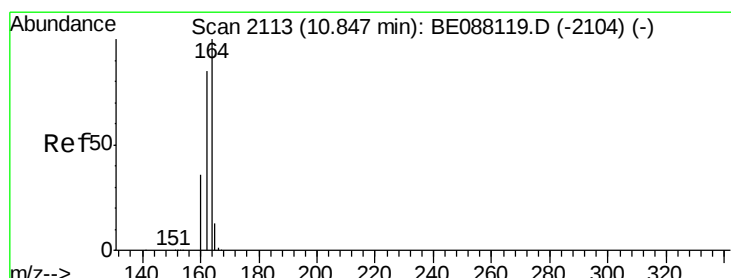
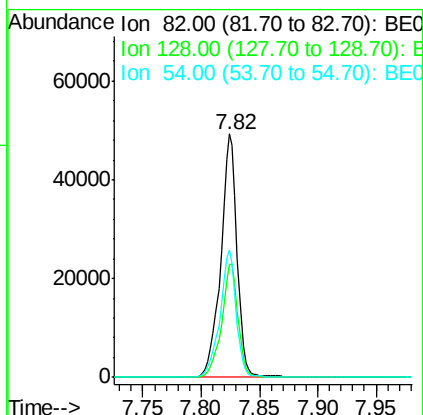
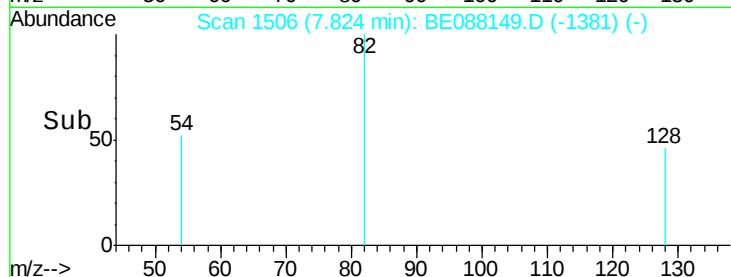
82 100

128 46.4 37.1 55.7

54 52.4 41.1 61.7

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#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088149.D

Acq: 21 Oct 2014 19:05

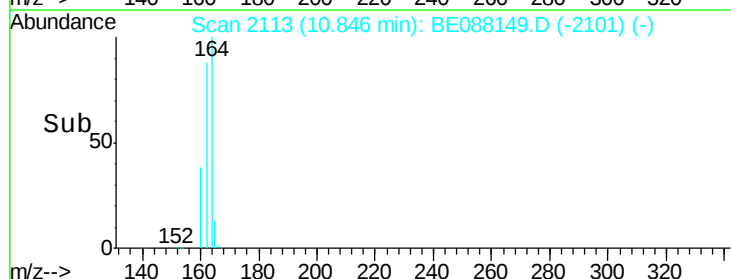
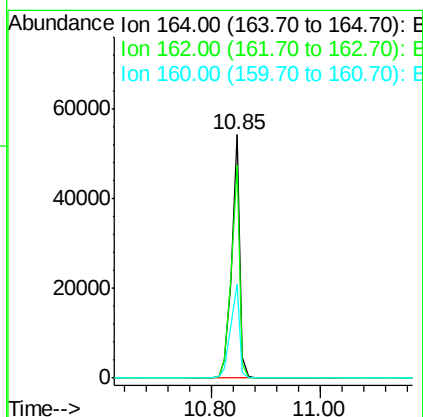
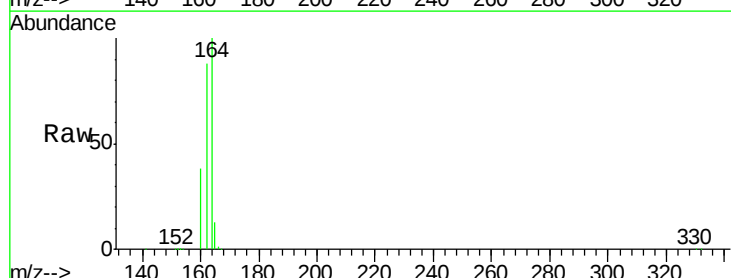
Tgt Ion: 164 Resp: 55955

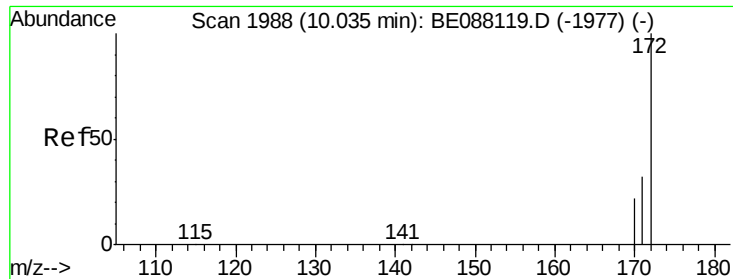
Ion Ratio Lower Upper

164 100

162 87.7 68.3 102.5

160 38.3 28.7 43.1





#8

2-Fluorobiphenyl

Concen: 5.61 ng

RT: 10.03 min Scan# 1988

Delta R.T. -0.00 min

Lab File: BE088149.D

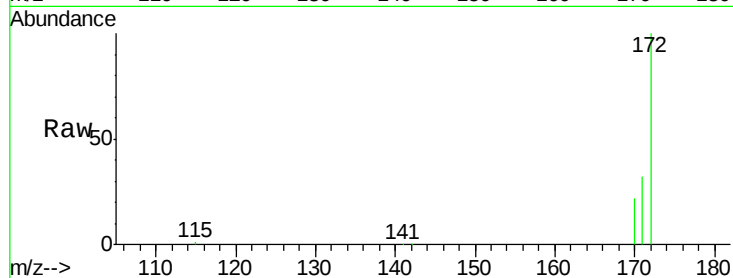
Acq: 21 Oct 2014 19:05

Instrument :

BNA\_E

ClientSampleId :

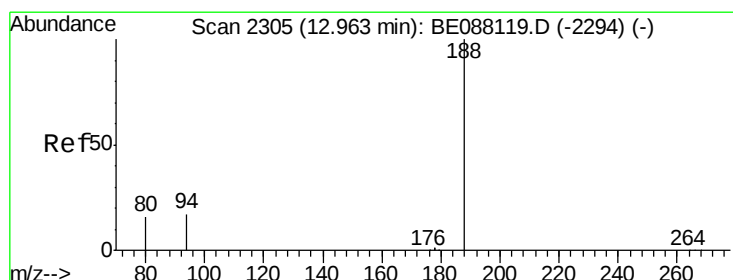
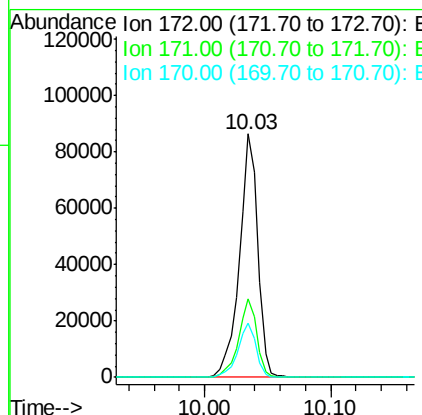
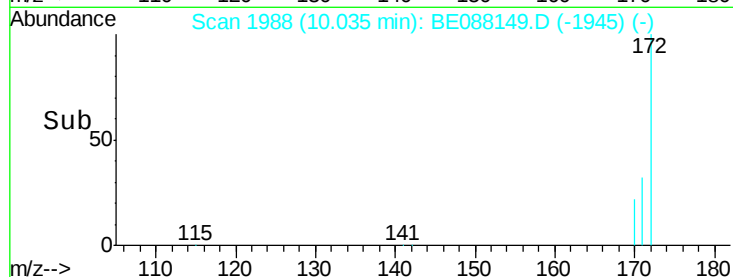
YS19-SW07-1014



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 86648 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 32.5  | 25.4  | 38.2  |
| 170       | 22.4  | 17.4  | 26.2  |

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#12

Phenanthrene-d10

Concen: 5.00 ng

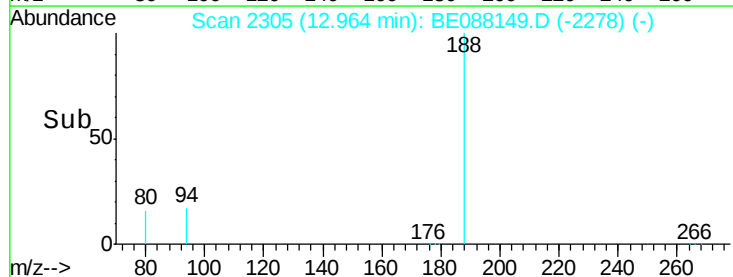
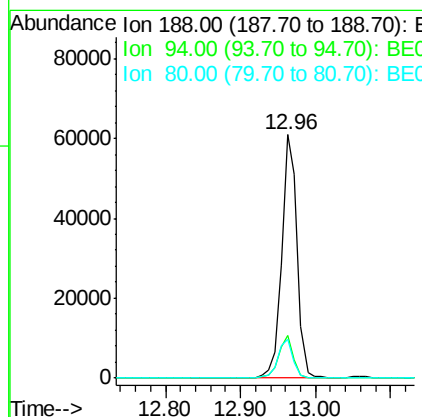
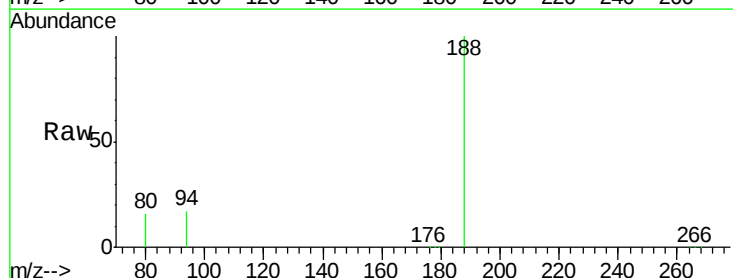
RT: 12.96 min Scan# 2305

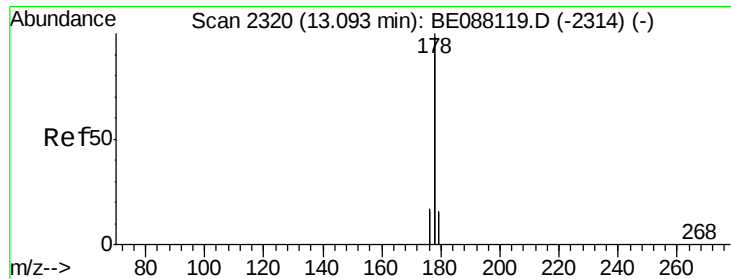
Delta R.T. 0.00 min

Lab File: BE088149.D

Acq: 21 Oct 2014 19:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 104072 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 17.4  | 13.9  | 20.9   |
| 80        | 16.2  | 12.9  | 19.3   |





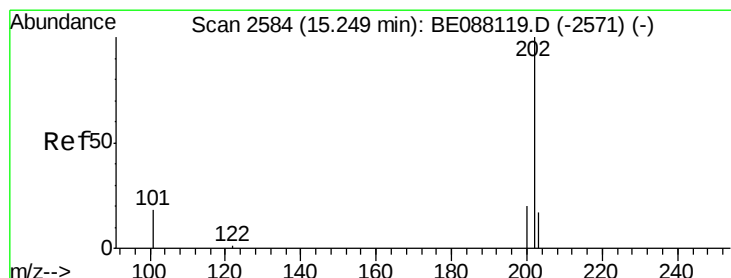
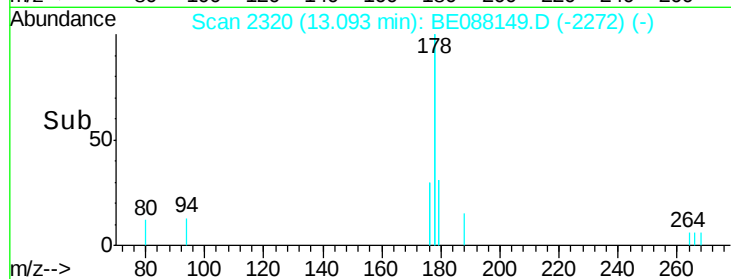
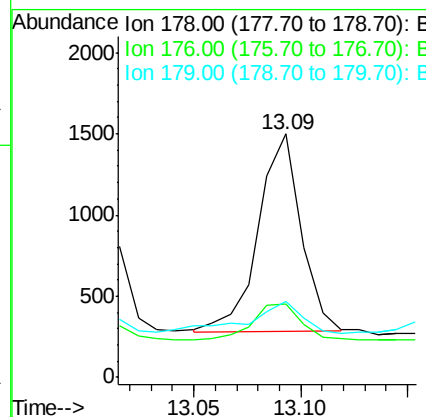
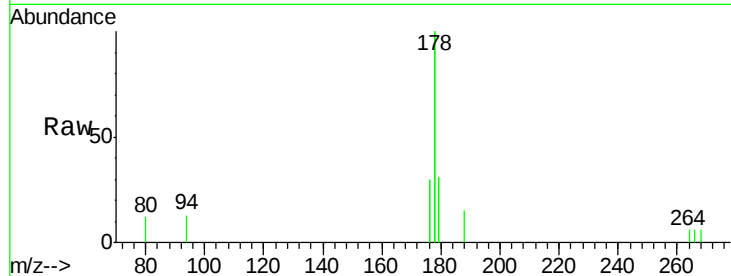
#14  
 Anthracene  
 Concen: 0.02 ng m  
 RT: 13.09 min Scan# 2320  
 Delta R.T. 0.00 min  
 Lab File: BE088149.D  
 Acq: 21 Oct 2014 19:05

Instrument :  
 BNA\_E  
 ClientSampleId :  
 YS19-SW07-1014

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 41.2  | 14.6  | 21.8# |
| 179     | 13.1  | 12.5  | 18.7  |

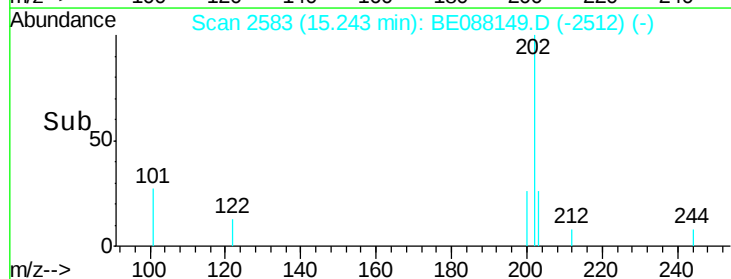
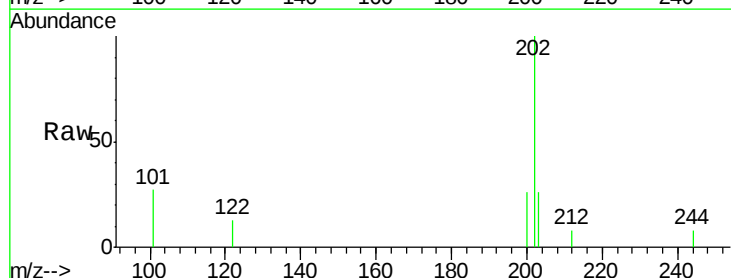
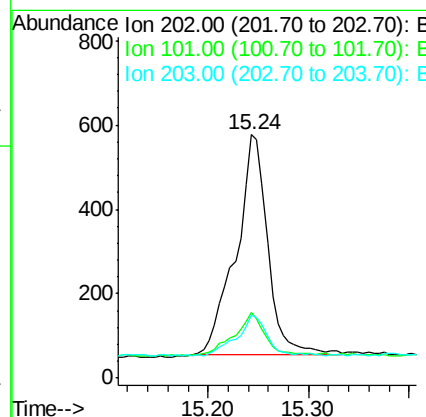
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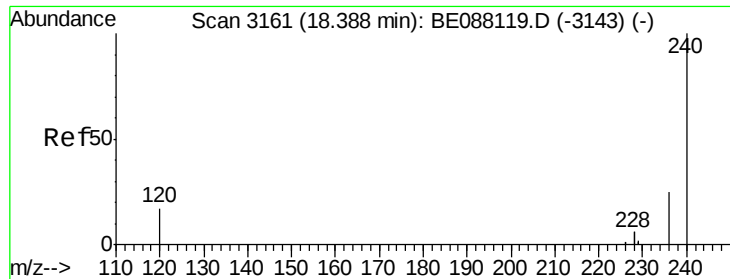
mohammad  
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#15  
 Fluoranthene  
 Concen: 0.06 ng  
 RT: 15.24 min Scan# 2583  
 Delta R.T. -0.01 min  
 Lab File: BE088149.D  
 Acq: 21 Oct 2014 19:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 17.0  | 14.8  | 22.2  |
| 203     | 17.0  | 13.5  | 20.3  |





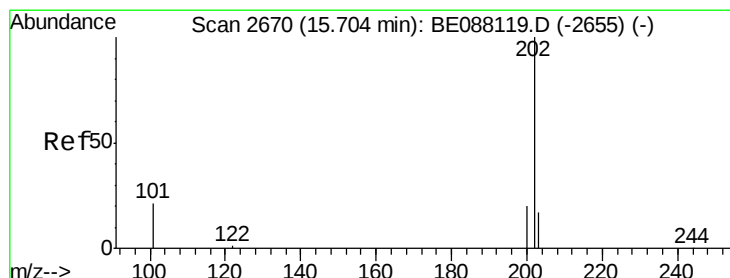
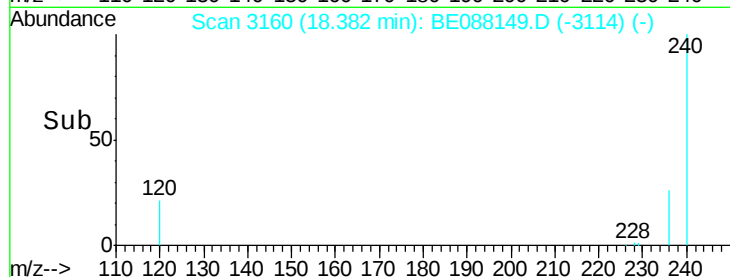
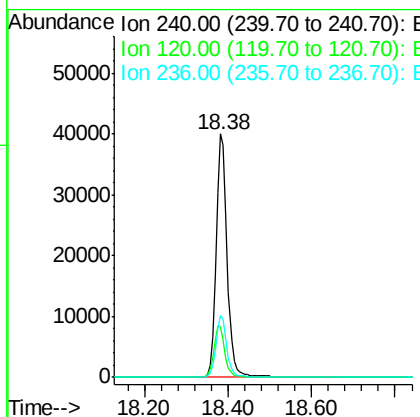
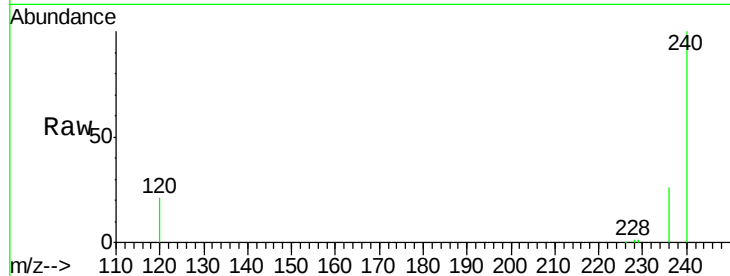
#16  
Chrysene-d12  
Concen: 5.00 ng  
RT: 18.38 min Scan# 3160  
Delta R.T. -0.01 min  
Lab File: BE088149.D  
Acq: 21 Oct 2014 19:05

Instrument :  
BNA\_E  
ClientSampleId :  
YS19-SW07-1014

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 20.7  | 13.9  | 20.9  |
| 236     | 25.6  | 19.9  | 29.9  |

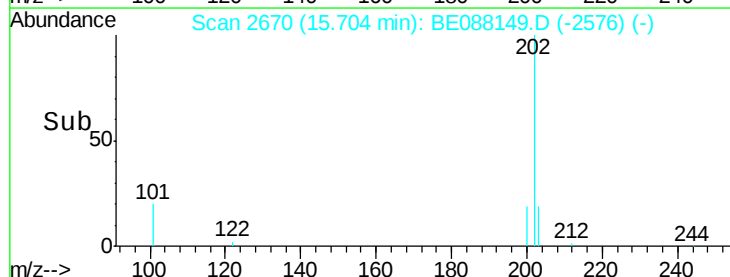
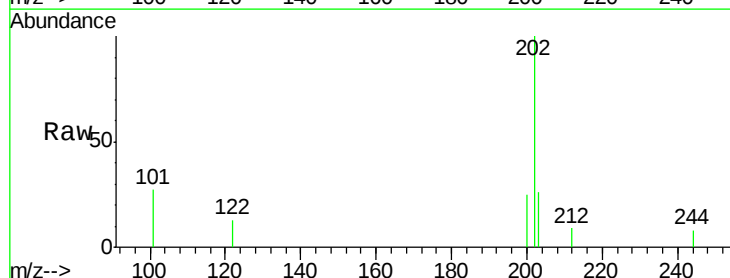
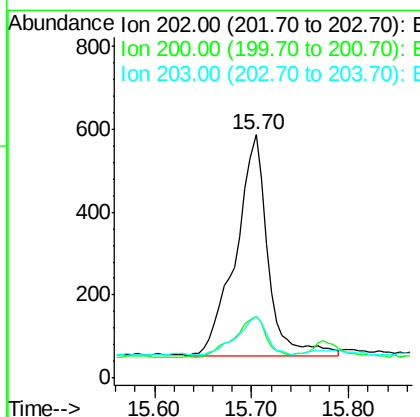
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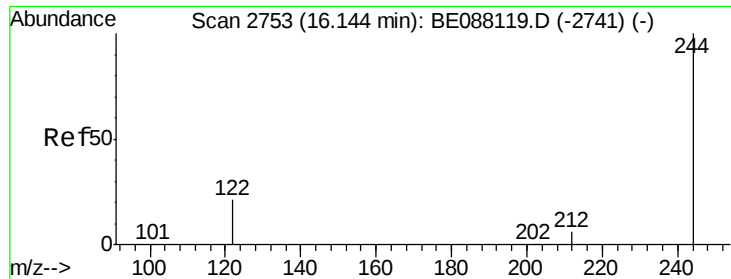
mohammad  
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#17  
Pyrene  
Concen: 0.06 ng  
RT: 15.70 min Scan# 2670  
Delta R.T. -0.00 min  
Lab File: BE088149.D  
Acq: 21 Oct 2014 19:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.0  | 16.1  | 24.1  |
| 203     | 16.2  | 13.9  | 20.9  |





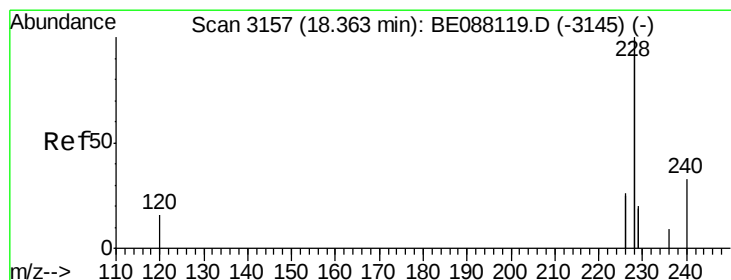
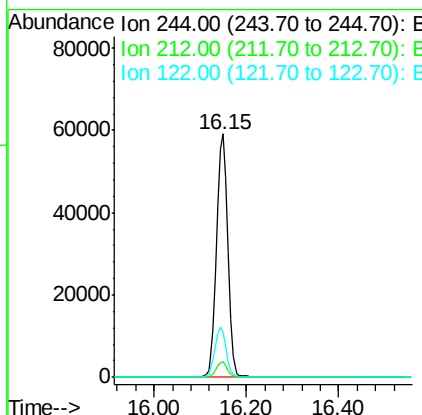
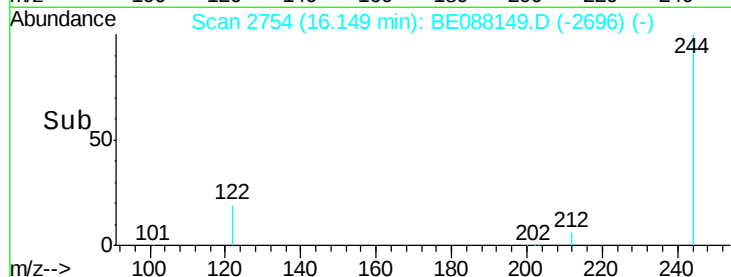
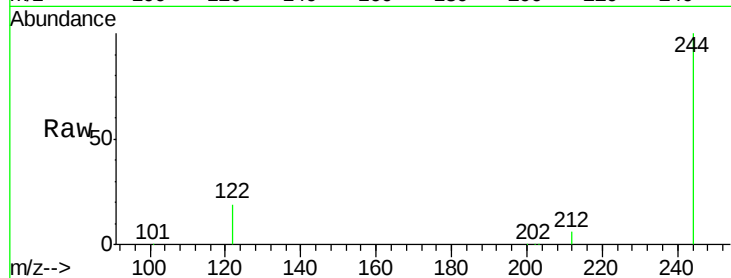
#18  
 Terphenyl-d14  
 Concen: 8.21 ng  
 RT: 16.15 min Scan# 2754  
 Delta R.T. 0.01 min  
 Lab File: BE088149.D  
 Acq: 21 Oct 2014 19:05

Instrument :  
 BNA\_E  
 ClientSampleId :  
 YS19-SW07-1014

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.3   | 5.4   | 8.0   |
| 122     | 18.8  | 17.5  | 26.3  |

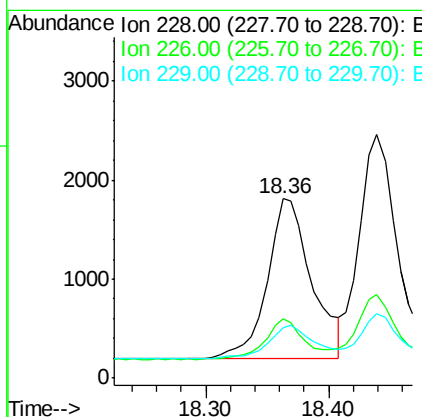
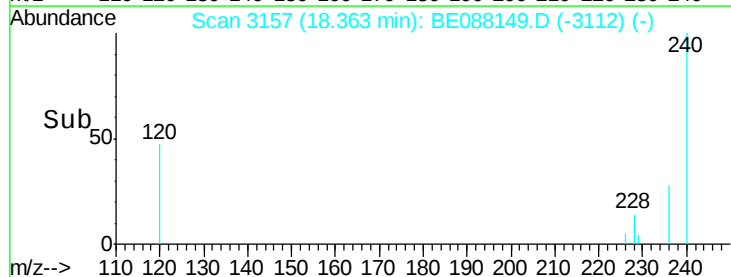
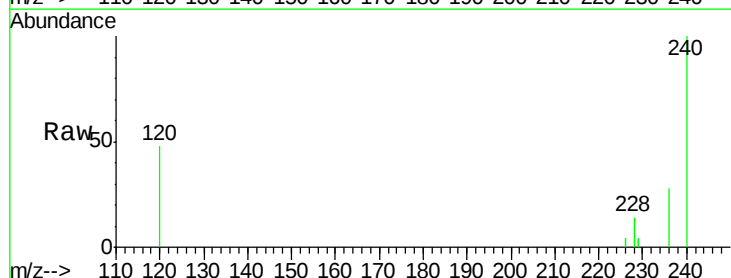
Manual Integrations  
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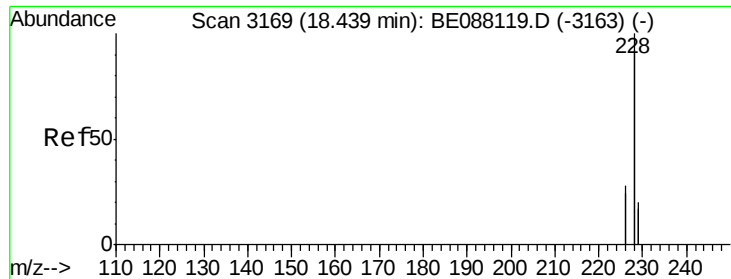
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#19  
 Benzo(a)anthracene  
 Concen: 0.06 ng  
 RT: 18.36 min Scan# 3157  
 Delta R.T. 0.00 min  
 Lab File: BE088149.D  
 Acq: 21 Oct 2014 19:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.0  | 20.8  | 31.2# |
| 229     | 28.3  | 15.6  | 23.4# |





#20

Chrysene

Concen: 0.08 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088149.D

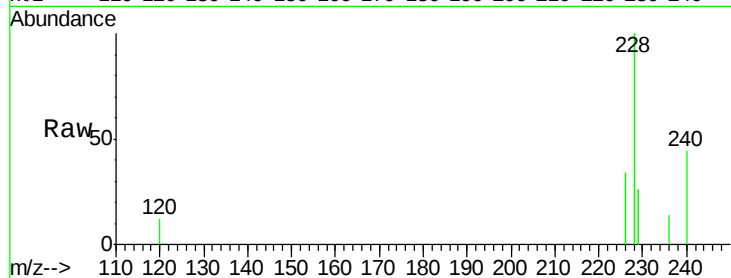
Acq: 21 Oct 2014 19:05

Instrument :

BNA\_E

ClientSampleId :

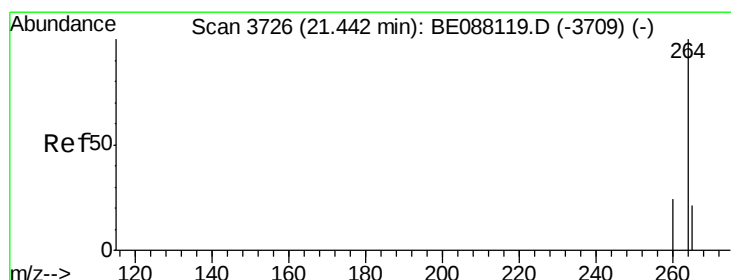
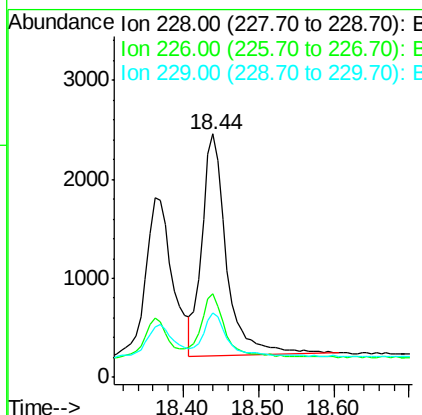
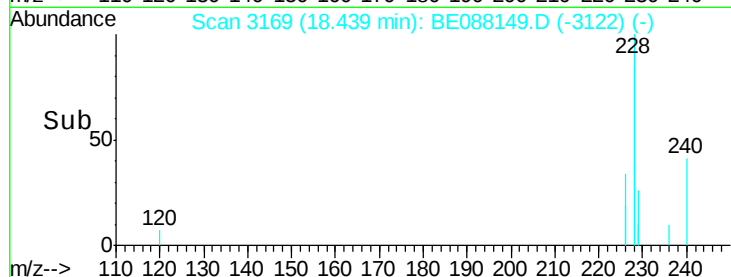
YS19-SW07-1014



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 5066  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 34.3  | 22.7  | 34.1# |
| 229       | 26.3  | 15.8  | 23.6# |

Manual Integrations  
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#22

Perylene-d12

Concen: 5.00 ng

RT: 21.44 min Scan# 3726

Delta R.T. -0.00 min

Lab File: BE088149.D

Acq: 21 Oct 2014 19:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 68836 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 23.7  | 19.0  | 28.4  |
| 265       | 21.6  | 17.2  | 25.8  |

