

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE101917\  
 Data File : BE094444.D  
 Acq On : 19 Oct 2017 12:54  
 Operator : SJ/JU  
 Sample : PB103238BL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB103238BL

Manual Integrations  
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Quant Time: Oct 20 13:15:23 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE101617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 16 14:54:40 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.90  | 152  | 1275     | 0.40 | ng    | -0.02    |
| 7) Naphthalene-d8           | 10.71 | 136  | 6015     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10        | 14.52 | 164  | 3960     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10        | 17.27 | 188  | 9143     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12            | 21.43 | 240  | 9876     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12            | 23.95 | 264  | 9430     | 0.40 | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |      |       |          |
| 4) 2-Fluorophenol           | 5.51  | 112  | 1688     | 0.39 | ng    | 0.00     |
| 5) Phenol-d6                | 7.14  | 99   | 1937     | 0.29 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 9.10  | 82   | 1872     | 0.36 | ng    | 0.02     |
| 11) 2-Methylnaphthalene-d10 | 12.31 | 152  | 4015     | 0.43 | ng    | 0.02     |
| 14) 2,4,6-Tribromophenol    | 16.06 | 330  | 436m     | 0.29 | ng    | 0.03     |
| 15) 2-Fluorobiphenyl        | 13.18 | 172  | 5277     | 0.37 | ng    | 0.03     |
| 25) Fluoranthene-d10        | 19.29 | 212  | 44819    | 0.30 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.87 | 244  | 7333     | 0.37 | ng    | 0.00     |

Target Compounds Qvalue

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

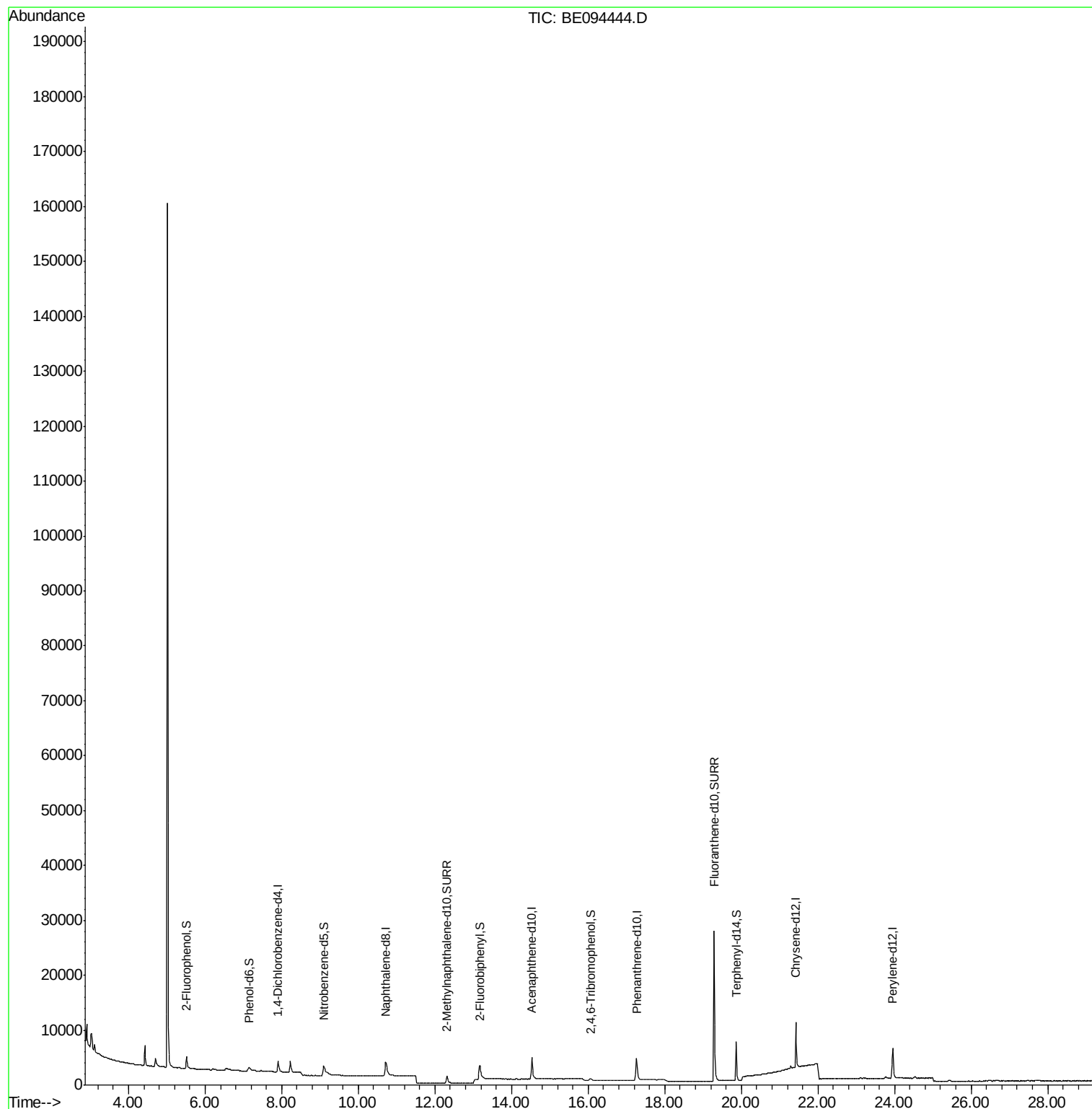
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE101917\  
Data File : BE094444.D  
Acq On : 19 Oct 2017 12:54  
Operator : SJ/JU  
Sample : PB103238BL  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

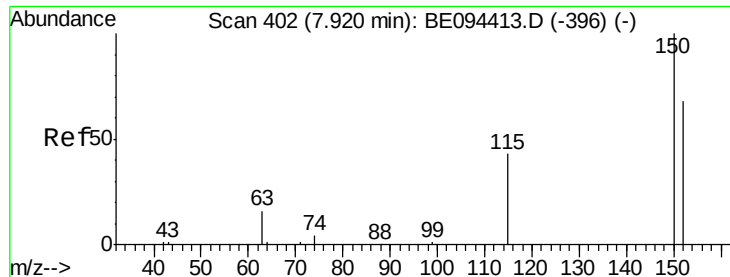
Instrument :  
BNA\_E  
ClientSampleId :  
PB103238BL

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Quant Time: Oct 20 13:15:23 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\8270-SIM-BE101617.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 16 14:54:40 2017  
Response via : Initial Calibration

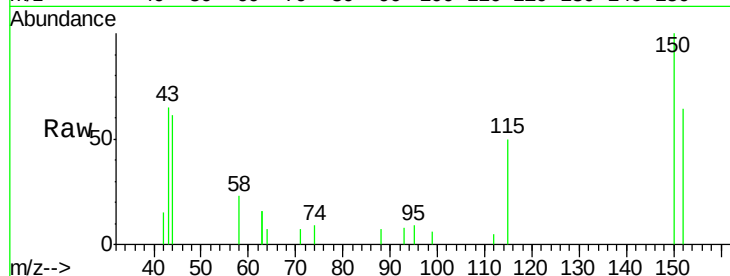




#1

1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.90 min Scan# 401  
Delta R.T. -0.02 min  
Lab File: BE094444.D  
Acq: 19 Oct 2017 12:54

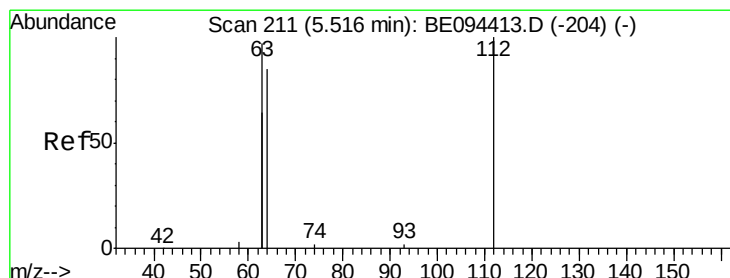
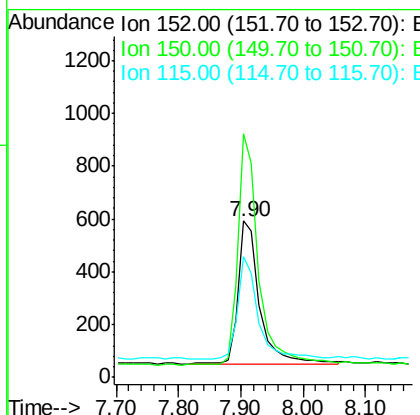
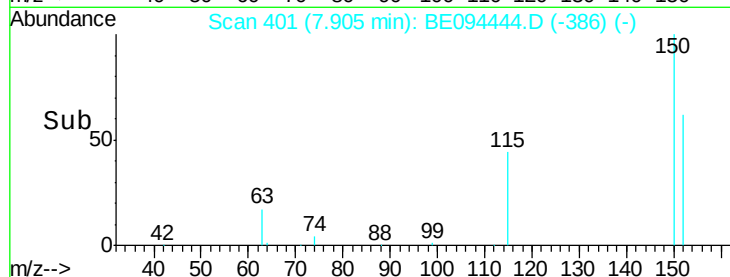
Instrument :  
BNA\_E  
ClientSampleId :  
PB103238BL



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.2 | 117.2 | 175.8 |
| 115     | 77.3  | 57.0  | 85.6  |

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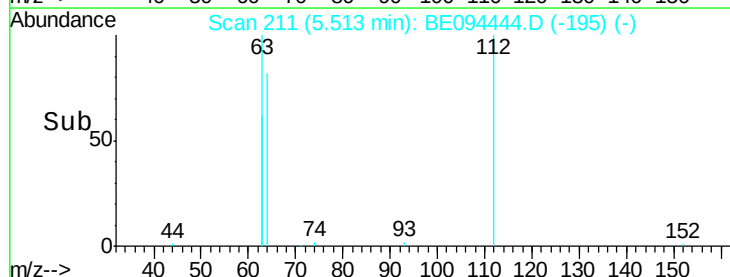
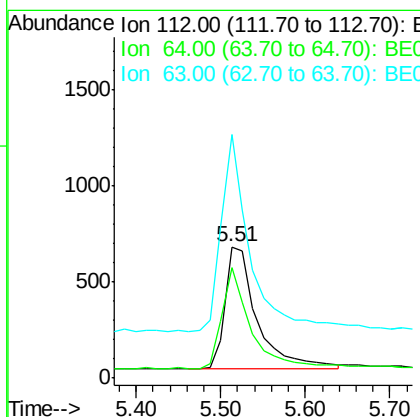
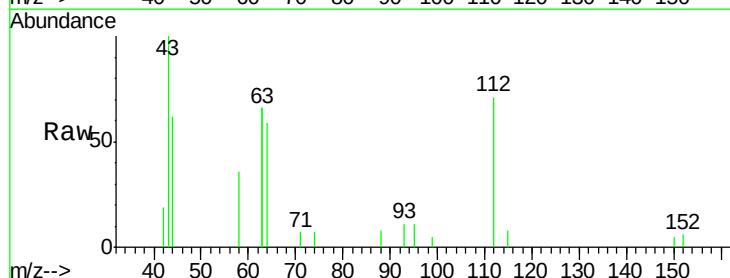
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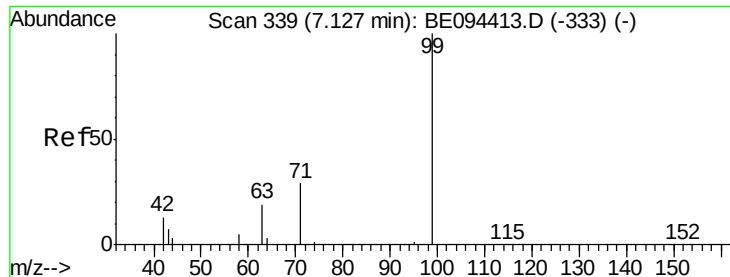


#4

2-Fluorophenol  
Concen: 0.392 ng  
RT: 5.51 min Scan# 211  
Delta R.T. -0.00 min  
Lab File: BE094444.D  
Acq: 19 Oct 2017 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 73.7  | 60.1  | 90.1  |
| 63      | 146.8 | 116.8 | 175.2 |





#5

Phenol-d6

Concen: 0.288 ng

RT: 7.14 min Scan# 340

Delta R.T. 0.01 min

Lab File: BE094444.D

Acq: 19 Oct 2017 12:54

Instrument :

BNA\_E

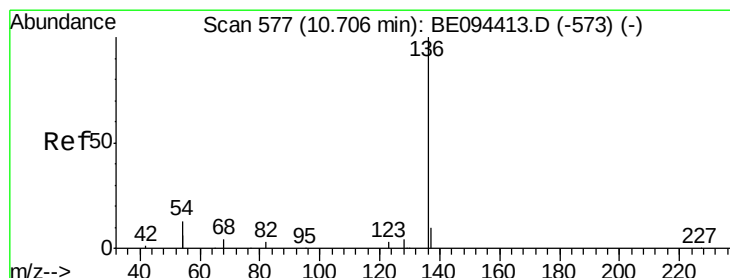
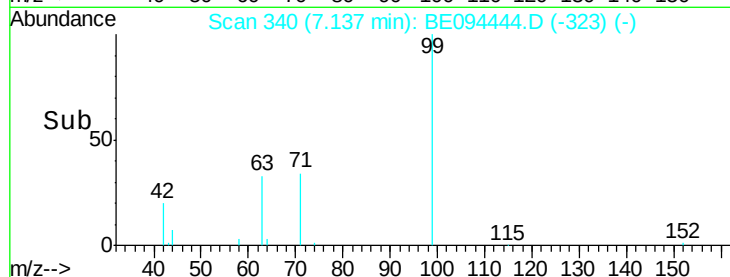
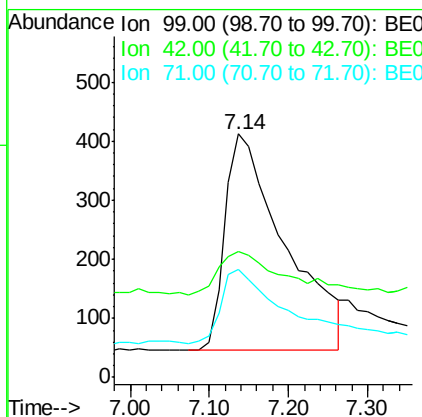
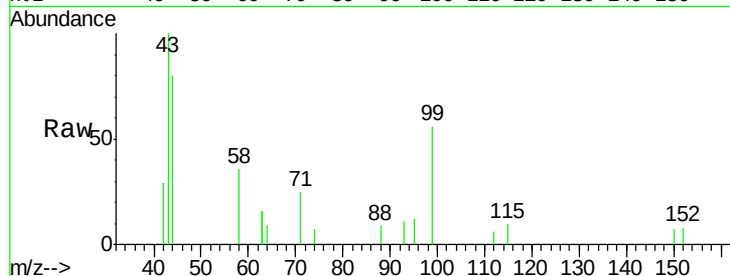
ClientSampled :

PB103238BL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1937  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 20.5  | 20.2  | 30.2  |
| 71       | 34.8  | 28.4  | 42.6  |

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#7

Naphthalene-d8

Concen: 0.400 ng

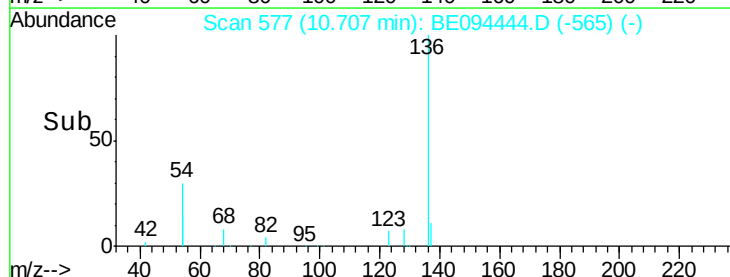
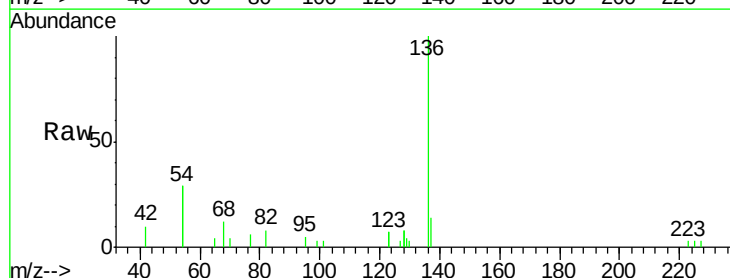
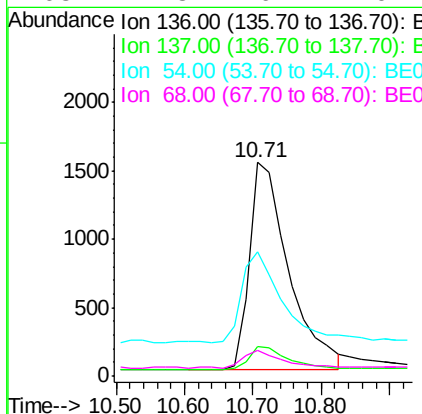
RT: 10.71 min Scan# 577

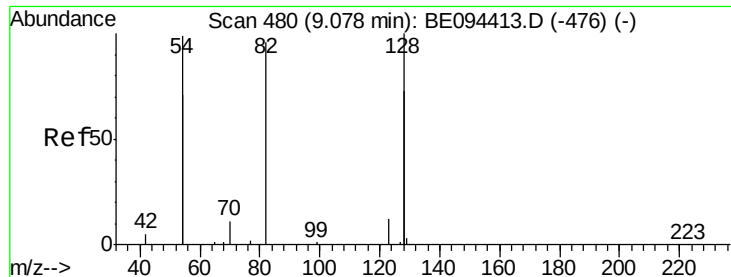
Delta R.T. 0.00 min

Lab File: BE094444.D

Acq: 19 Oct 2017 12:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 6015  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 14.0  | 9.5   | 14.3  |
| 54       | 58.3  | 29.1  | 43.7# |
| 68       | 11.8  | 6.2   | 9.2#  |





#8

Nitrobenzene-d5

Concen: 0.358 ng

RT: 9.10 min Scan# 481

Delta R.T. 0.02 min

Lab File: BE094444.D

Acq: 19 Oct 2017 12:54

Instrument :

BNA\_E

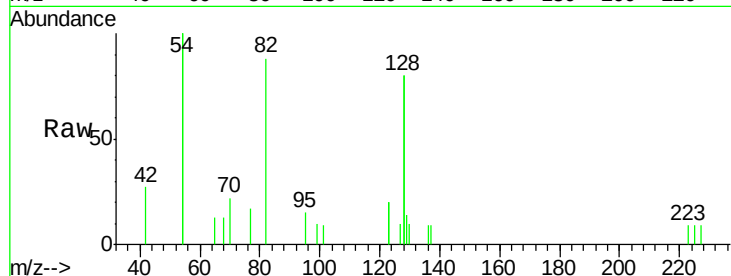
ClientSampleId :

PB103238BL

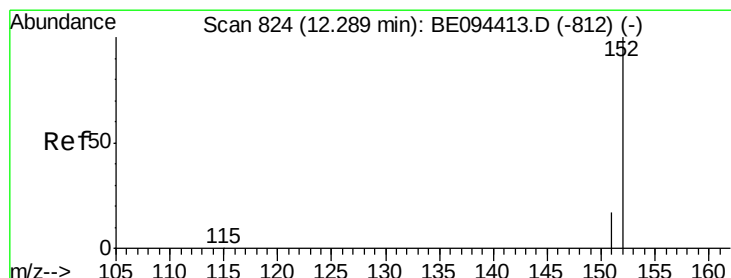
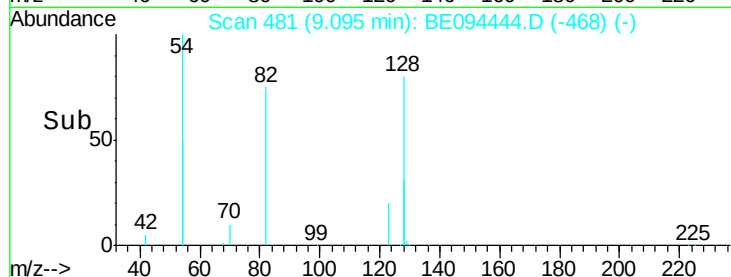
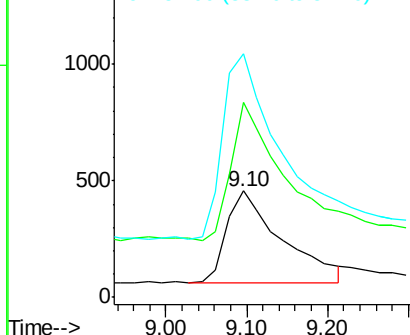
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 1872  |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 182.9 | 150.0 | 225.0 |
| 54        | 228.4 | 154.2 | 231.4 |

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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



#11

2-Methylnaphthalene-d10

Concen: 0.433 ng

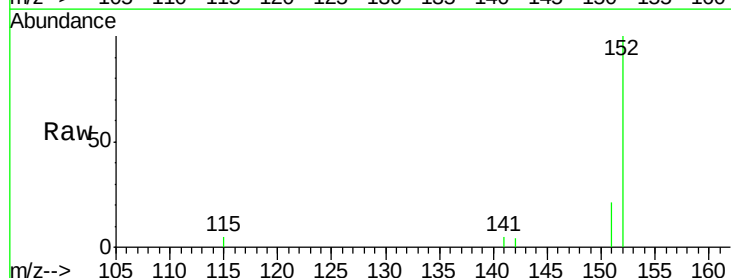
RT: 12.31 min Scan# 830

Delta R.T. 0.02 min

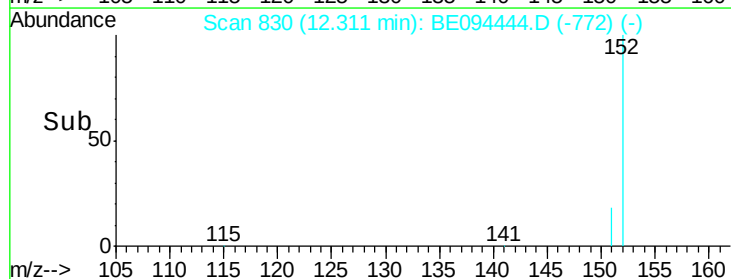
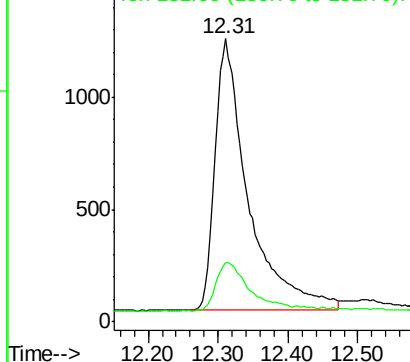
Lab File: BE094444.D

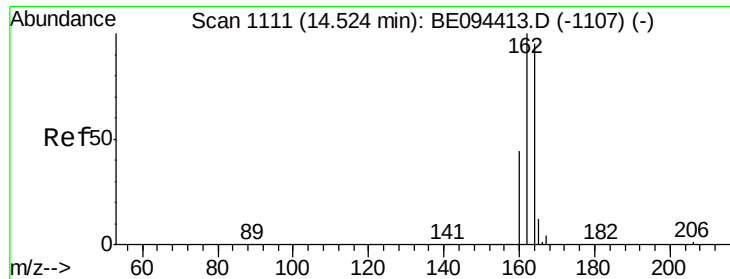
Acq: 19 Oct 2017 12:54

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 4015 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 17.8  | 15.4  | 23.0 |



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E





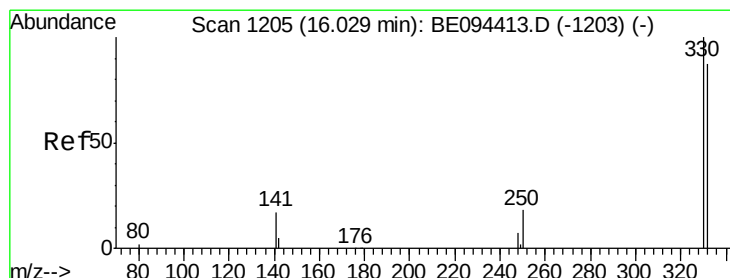
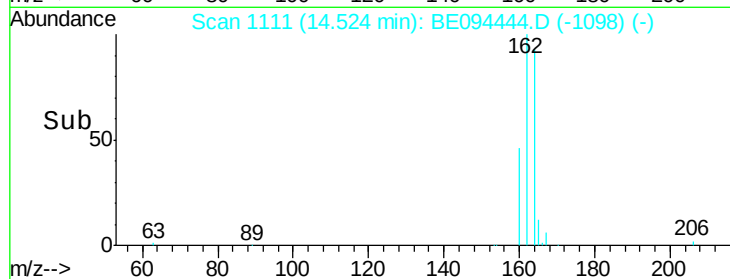
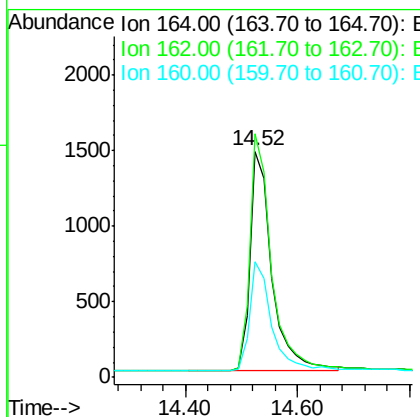
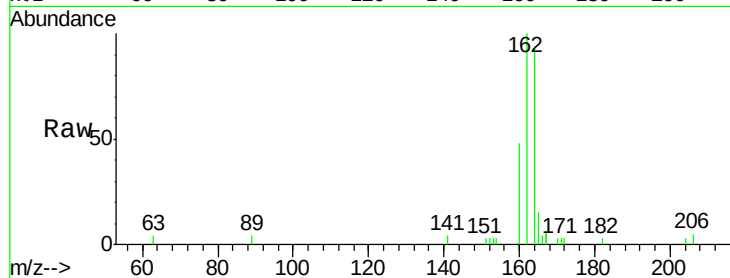
#13  
 Acenaphthene-d10  
 Concen: 0.400 ng  
 RT: 14.52 min Scan# 1111  
 Delta R.T. -0.00 min  
 Lab File: BE094444.D  
 Acq: 19 Oct 2017 12:54

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB103238BL

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   | 3960 |       |       |
| 162     | 107.6 | 83.1 | 124.7 |       |
| 160     | 51.4  | 37.1 | 55.7  |       |

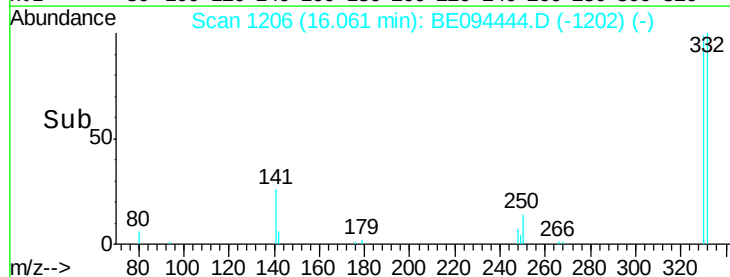
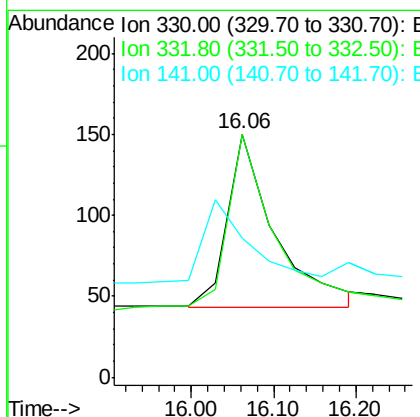
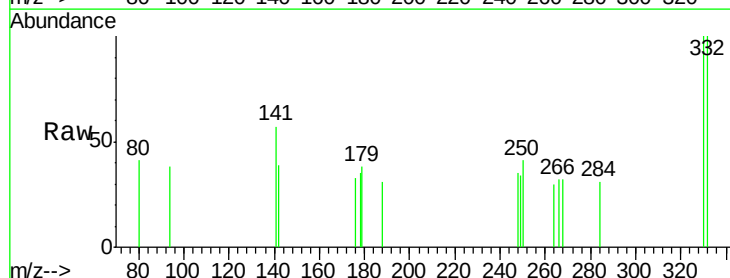
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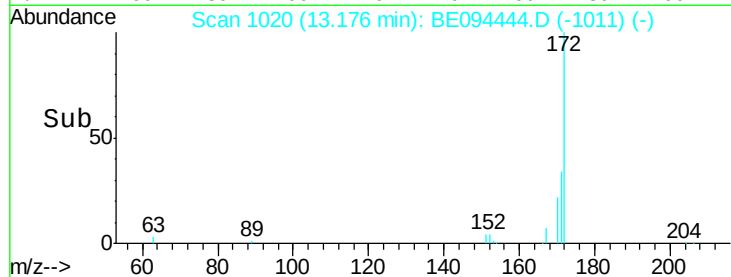
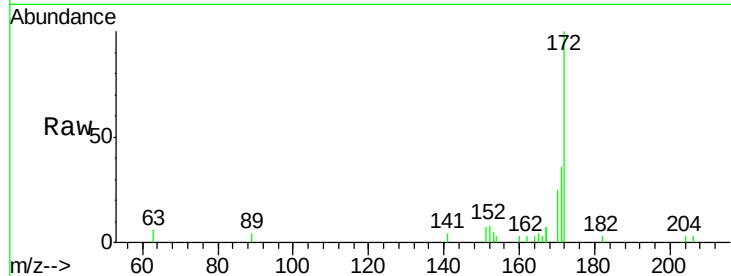
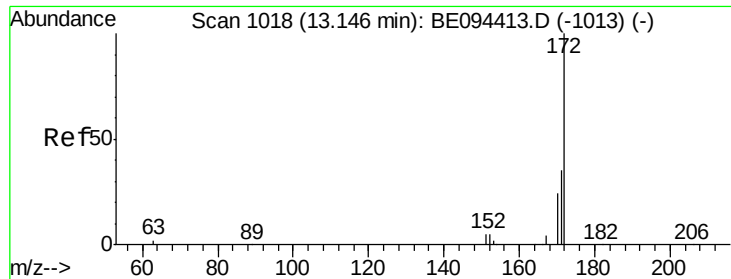
Sohil  
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#14  
 2,4,6-Tribromophenol  
 Concen: 0.289 ng m  
 RT: 16.06 min Scan# 1206  
 Delta R.T. 0.03 min  
 Lab File: BE094444.D  
 Acq: 19 Oct 2017 12:54

| Tgt Ion | Ratio | Resp  | Lower  | Upper |
|---------|-------|-------|--------|-------|
| 330     | 100   | 436   |        |       |
| 332     | 74.5  | 152.7 | 229.1# |       |
| 141     | 0.0   | 33.7  | 50.5#  |       |





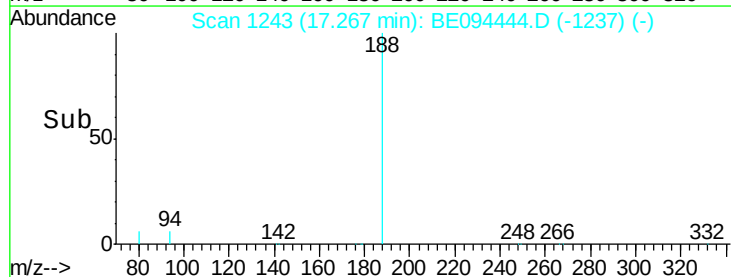
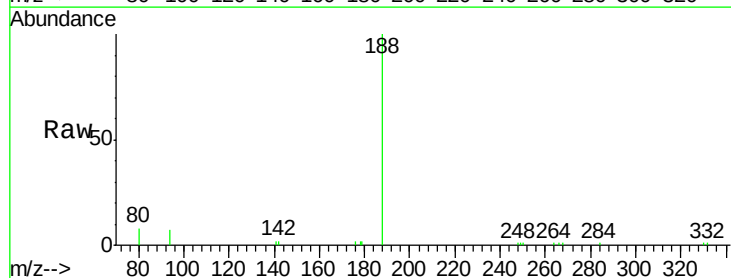
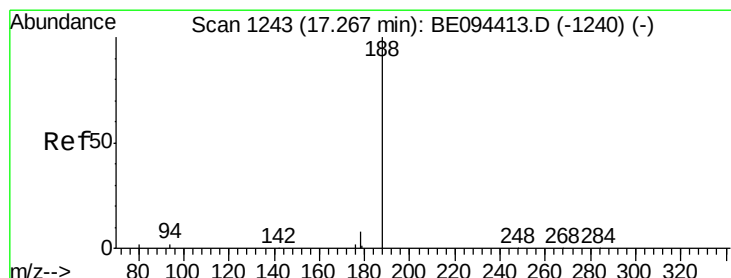
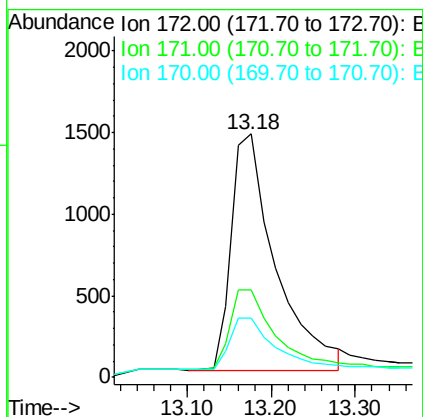
#15  
2-Fluorobiphenyl  
Concen: 0.373 ng  
RT: 13.18 min Scan# 1020  
Delta R.T. 0.03 min  
Lab File: BE094444.D  
Acq: 19 Oct 2017 12:54

Instrument :  
BNA\_E  
ClientSampleId :  
PB103238BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 29.9  | 44.9  |
| 170     | 24.5  | 21.8  | 32.8  |

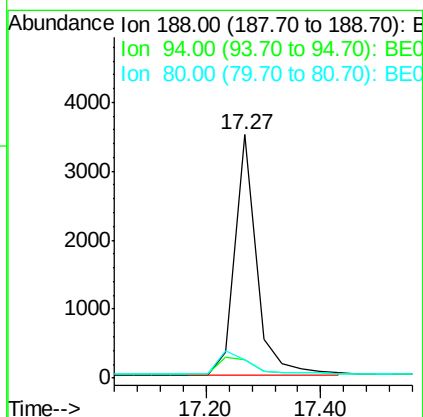
Manual Integrations  
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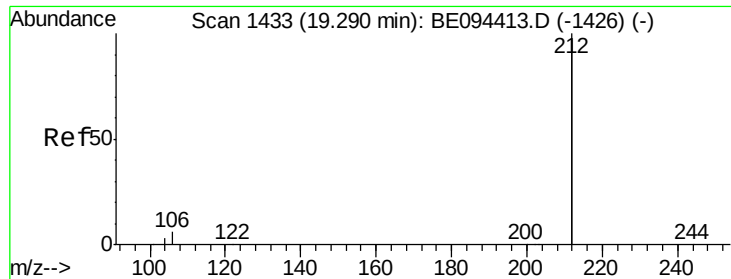
Sohil  
10/23/2017 3:11:13 PM



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.27 min Scan# 1243  
Delta R.T. -0.00 min  
Lab File: BE094444.D  
Acq: 19 Oct 2017 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.5   | 3.9   | 5.9#  |
| 80      | 7.6   | 3.6   | 5.4#  |





#25

Fluoranthene-d10

Concen: 0.304 ng

RT: 19.29 min Scan# 1433

Delta R.T. 0.00 min

Lab File: BE094444.D

Acq: 19 Oct 2017 12:54

Instrument :

BNA\_E

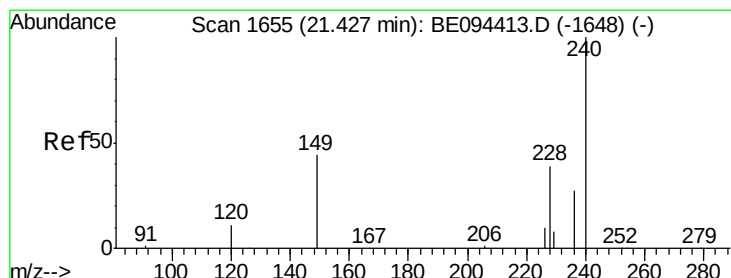
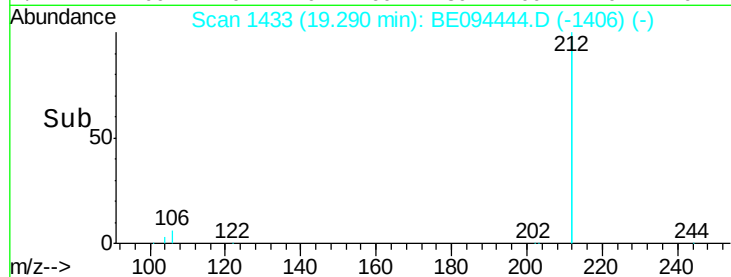
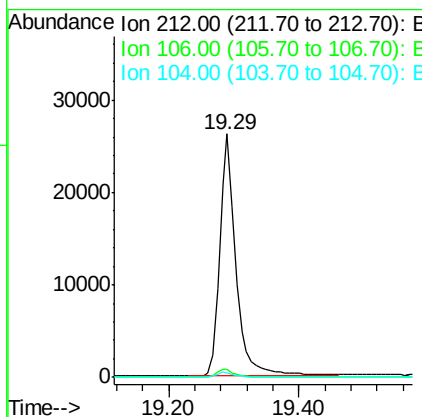
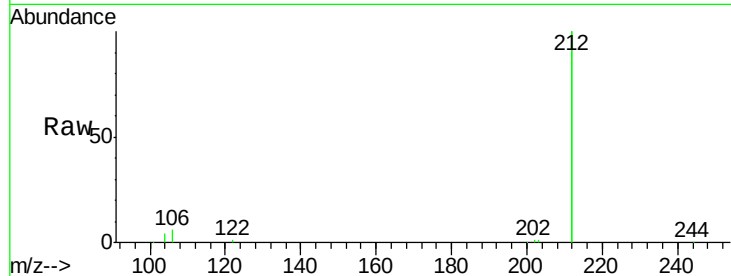
ClientSampleId :

PB103238BL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 212   | Resp: | 44819 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 3.4   | 2.8   | 4.2   |
| 104       | 1.9   | 1.6   | 2.4   |

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#27

Chrysene-d12

Concen: 0.400 ng

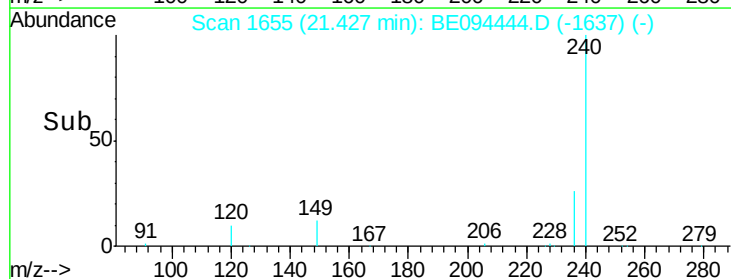
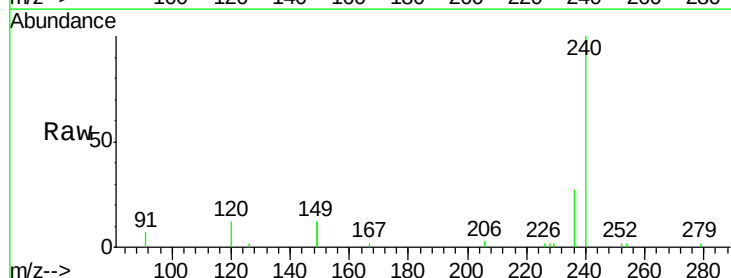
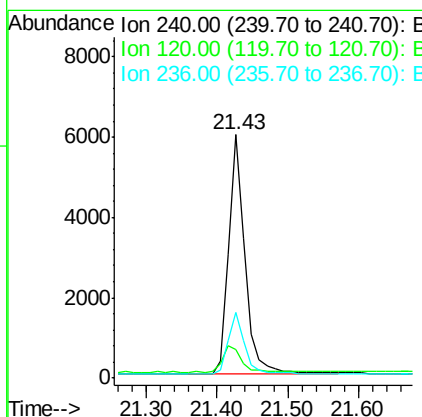
RT: 21.43 min Scan# 1655

Delta R.T. -0.00 min

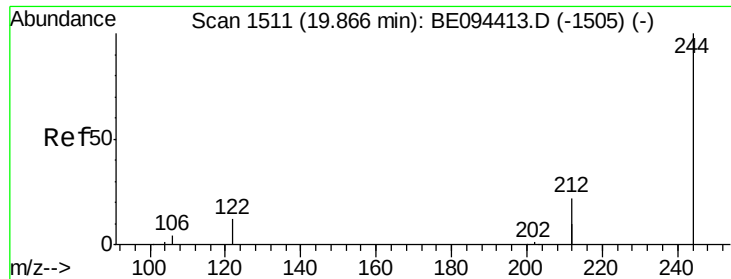
Lab File: BE094444.D

Acq: 19 Oct 2017 12:54

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 9876 |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 11.8  | 5.5   | 8.3# |
| 236       | 26.9  | 20.7  | 31.1 |







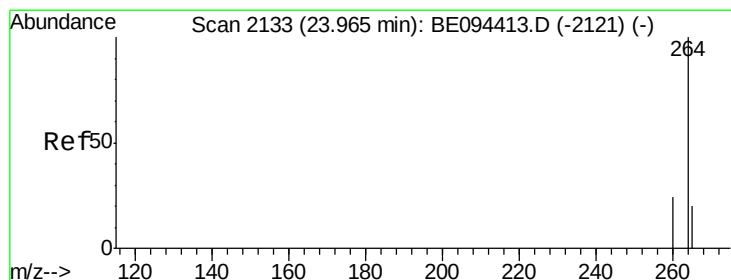
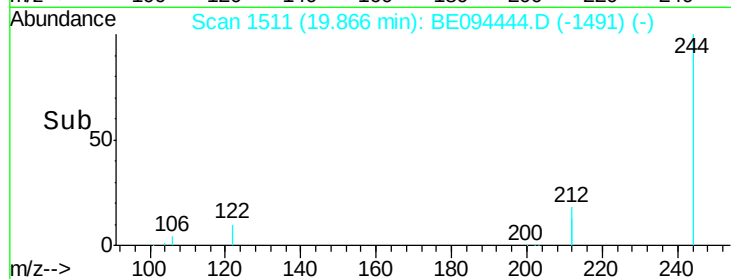
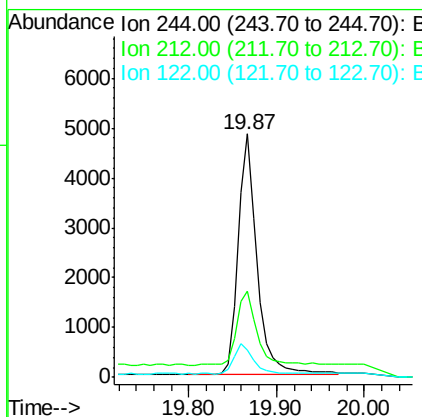
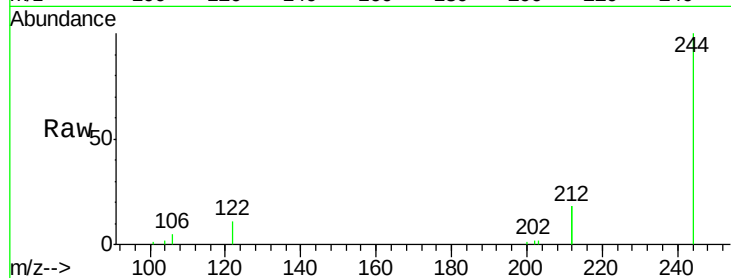
#29  
 Terphenyl-d14  
 Concen: 0.368 ng  
 RT: 19.87 min Scan# 1511  
 Delta R.T. 0.00 min  
 Lab File: BE094444.D  
 Acq: 19 Oct 2017 12:54

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB103238BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 35.3  | 25.4  | 38.0  |
| 122     | 11.4  | 8.1   | 12.1  |

Manual Integrations  
 APPROVED

Sohil  
 10/23/2017 3:11:13 PM



#34  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.95 min Scan# 2130  
 Delta R.T. -0.01 min  
 Lab File: BE094444.D  
 Acq: 19 Oct 2017 12:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.0  | 20.5  | 30.7  |
| 265     | 30.6  | 22.8  | 34.2  |

