

Data Path : Z:\HPCHEM1\BNA E\DATA\BE041816\  
 Data File : BE091664.D  
 Acq On : 18 Apr 2016 14:29  
 Operator : UM/SJ  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDICC3.2

Manual Integrations  
 APPROVED

Sohil  
 4/19/2016 6:39:40 PM

Quant Time: Apr 18 16:09:47 2016  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE041816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 18 14:18:33 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 35301    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.57 | 136  | 171099   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.42 | 164  | 103681   | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.16 | 188  | 246217   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.31 | 240  | 301330   | 5.00 | ng    | 0.00     |
| 35) Perylene-d12          | 23.75 | 264  | 261882   | 5.00 | ng    | -0.01    |

|                             |       |     |        |      |    |       |
|-----------------------------|-------|-----|--------|------|----|-------|
| System Monitoring Compounds |       |     |        |      |    |       |
| 4) 2-Fluorophenol           | 5.41  | 112 | 25326  | 3.01 | ng | 0.00  |
| 5) Phenol-d6                | 6.97  | 99  | 35225  | 3.14 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 8.96  | 82  | 30514  | 3.07 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.90 | 330 | 9200m  | 3.22 | ng | -0.01 |
| 15) 2-Fluorobiphenyl        | 13.05 | 172 | 95256  | 3.30 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.76 | 244 | 143918 | 3.83 | ng | 0.00  |

|                                |       |     |         |      |    |        |
|--------------------------------|-------|-----|---------|------|----|--------|
| Target Compounds               |       |     |         |      |    | Qvalue |
| 2) 1,4-Dioxane                 | 3.35  | 88  | 13165   | 2.91 | ng | # 95   |
| 3) n-Nitrosodimethylamine      | 3.64  | 42  | 17990   | 3.32 | ng | # 87   |
| 6) bis(2-Chloroethyl)ether     | 7.23  | 93  | 32089   | 3.29 | ng | # 76   |
| 9) Nitrobenzene                | 8.99  | 77  | 33324   | 3.19 | ng | 95     |
| 10) Naphthalene                | 10.63 | 128 | 112660  | 3.19 | ng | 98     |
| 11) Hexachlorobutadiene        | 10.92 | 225 | 16400m  | 3.16 | ng |        |
| 12) 2-Methylnaphthalene        | 12.24 | 142 | 74412   | 3.30 | ng | 98     |
| 16) Acenaphthylene             | 14.14 | 152 | 138095  | 3.43 | ng | # 87   |
| 17) Acenaphthene               | 14.47 | 154 | 83305   | 3.27 | ng | 89     |
| 18) Fluorene                   | 15.46 | 166 | 105990  | 3.33 | ng | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.34 | 248 | 29736   | 3.42 | ng | 96     |
| 21) Hexachlorobenzene          | 16.46 | 284 | 30139   | 3.34 | ng | 97     |
| 22) Pentachlorophenol          | 16.79 | 266 | 11188   | 3.35 | ng | # 90   |
| 23) Phenanthrene               | 17.19 | 178 | 184747  | 3.29 | ng | 99     |
| 24) Anthracene                 | 17.29 | 178 | 173244  | 3.48 | ng | 98     |
| 25) Fluoranthene               | 19.20 | 202 | 191925  | 3.23 | ng | 97     |
| 27) Benzidine                  | 19.38 | 184 | 60518   | 3.05 | ng | # 75   |
| 28) Pyrene                     | 19.55 | 202 | 206531  | 3.43 | ng | 99     |
| 30) Benzo(a)anthracene         | 21.29 | 228 | 232962m | 3.46 | ng |        |
| 31) 3,3'-Dichlorobenzidine     | 21.22 | 252 | 103650  | 2.87 | ng | # 75   |
| 32) Chrysene                   | 21.33 | 228 | 227127m | 3.71 | ng |        |
| 33) Bis(2-ethylhexyl)phthalate | 21.22 | 149 | 53090   | 1.78 | ng | # 81   |
| 34) Indeno(1,2,3-cd)pyrene     | 26.31 | 276 | 220502  | 3.23 | ng | 97     |
| 36) Benzo(b)fluoranthene       | 23.00 | 252 | 198769  | 3.27 | ng | 97     |
| 37) Benzo(k)fluoranthene       | 23.04 | 252 | 207462  | 3.46 | ng | 97     |
| 38) Benzo(a)pyrene             | 23.63 | 252 | 183462  | 3.25 | ng | 96     |
| 39) Dibenzo(a,h)anthracene     | 26.33 | 278 | 182214  | 3.28 | ng | 96     |
| 40) Benzo(g,h,i)perylene       | 27.09 | 276 | 183451  | 3.20 | ng | 98     |

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

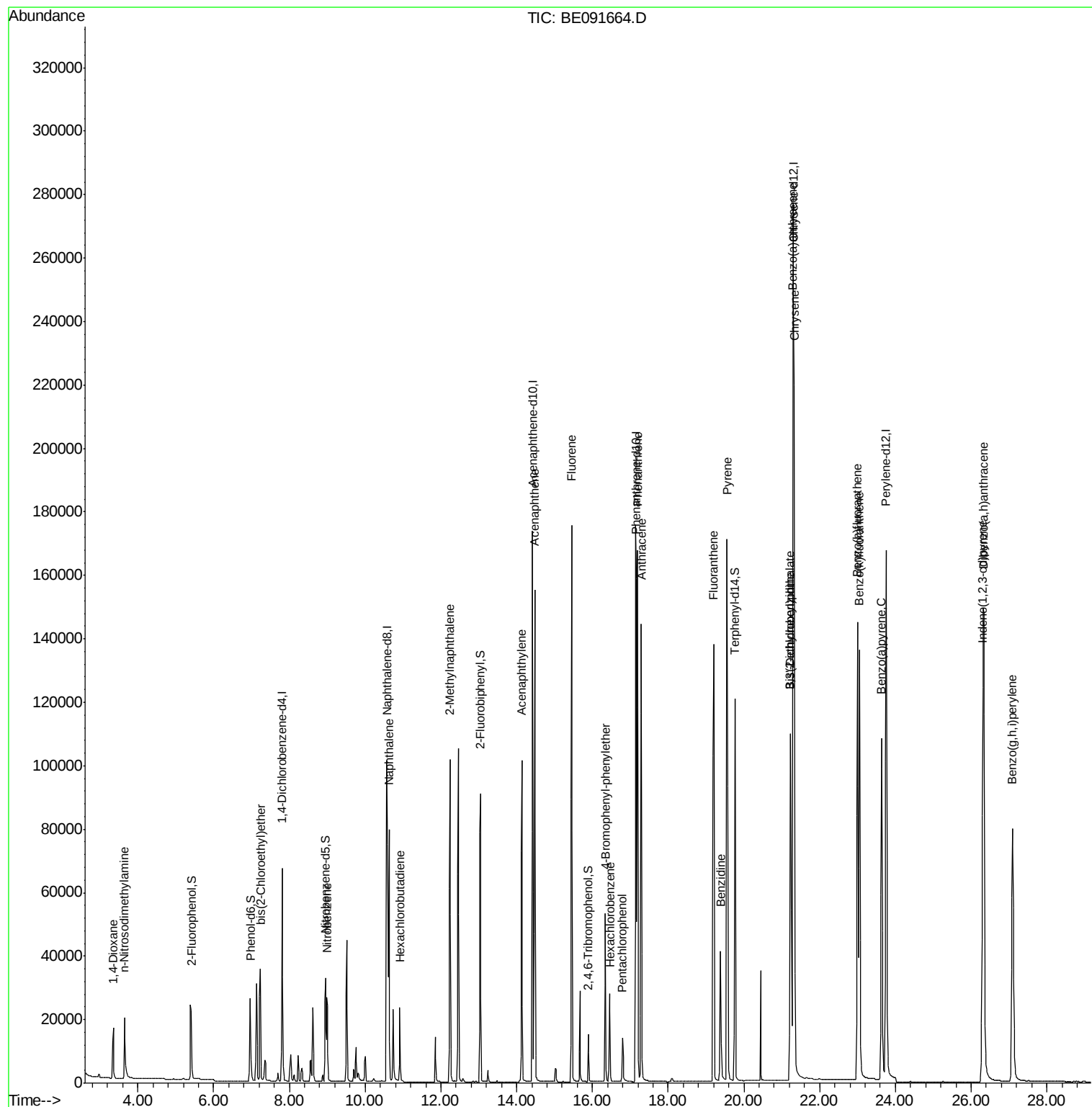
Data Path : Z:\HPCHEM1\BNA E\DATA\BE041816\  
Data File : BE091664.D  
Acq On : 18 Apr 2016 14:29  
Operator : UM/SJ  
Sample : SSTDICC3.2  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

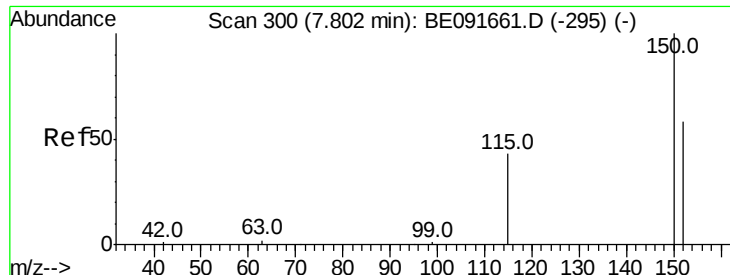
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC3.2

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Quant Time: Apr 18 16:09:47 2016  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE041816.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 18 14:18:33 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 300

Delta R.T. 0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

Instrument :

BNA\_E

ClientSampleId :

SSTDICC3.2

Tot Ion:152 Resp: 35301

Ion Ratio Lower Upper

152 100

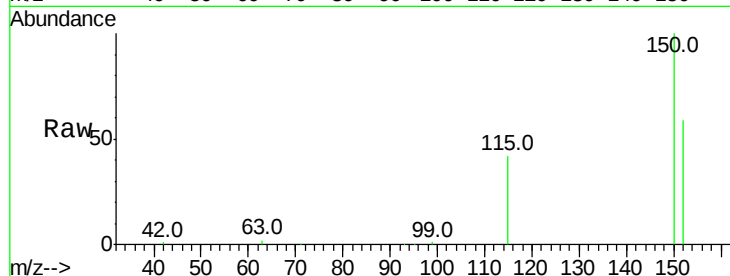
150 169.9 122.6 183.8

115 71.7 52.8 79.2

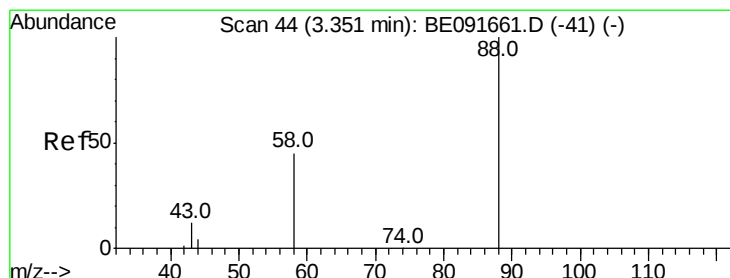
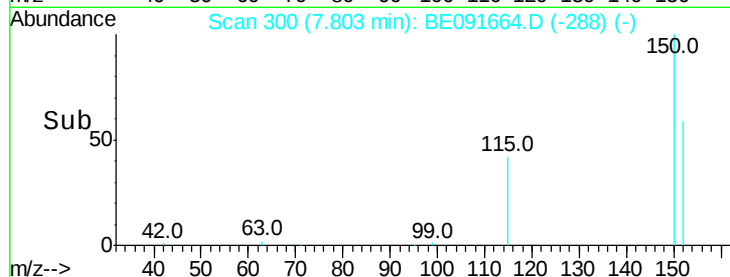
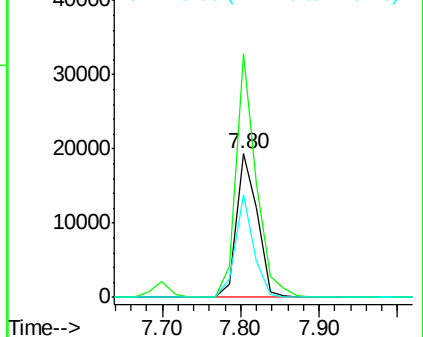
Manual Integrations  
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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 2.91 ng

RT: 3.35 min Scan# 44

Delta R.T. -0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

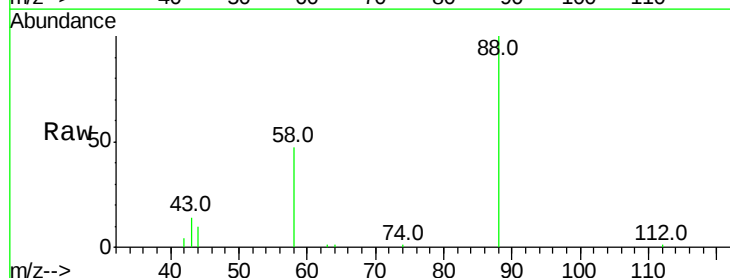
Tgt Ion: 88 Resp: 13165

Ion Ratio Lower Upper

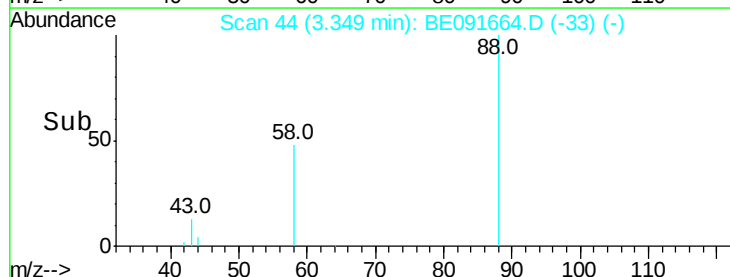
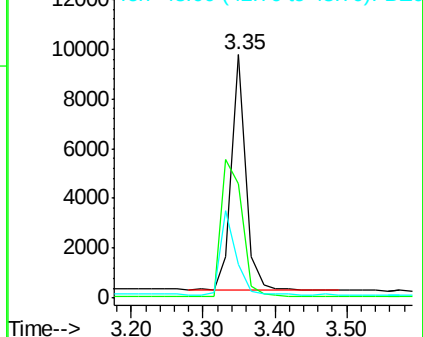
88 100

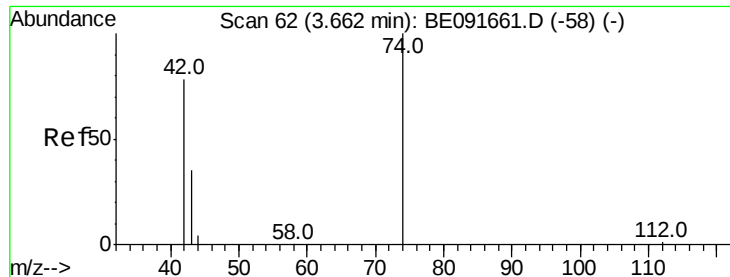
58 84.5 65.8 98.6

43 38.6 25.3 37.9#



Abundance Ion 88.00 (87.70 to 88.70): BE0  
Ion 58.00 (57.70 to 58.70): BE0  
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 3.32 ng

RT: 3.64 min Scan# 61

Delta R.T. -0.02 min

Lab File: BE091664.D

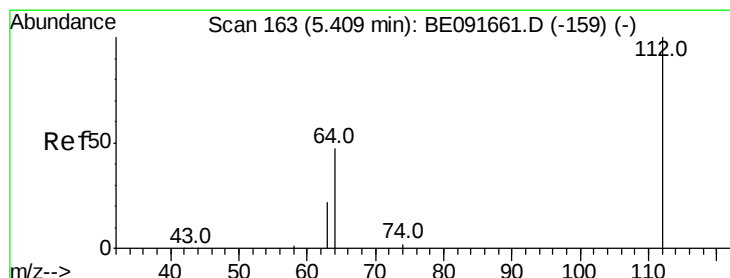
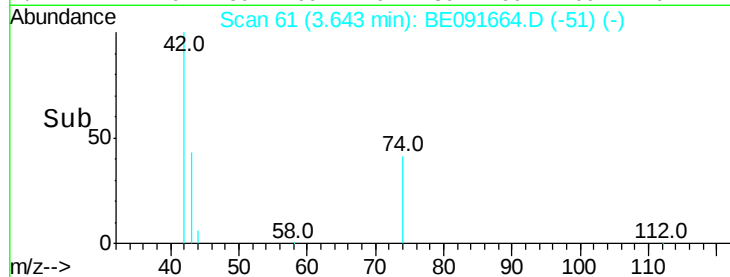
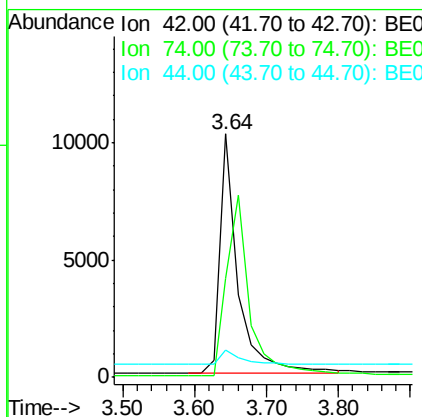
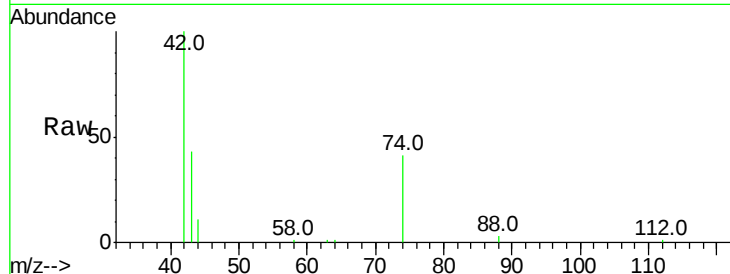
Acq: 18 Apr 2016 14:29

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC3.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 74      | 96.2  | 87.9  | 131.9 |
| 44      | 6.2   | 6.6   | 9.8#  |

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#4

2-Fluorophenol

Concen: 3.01 ng

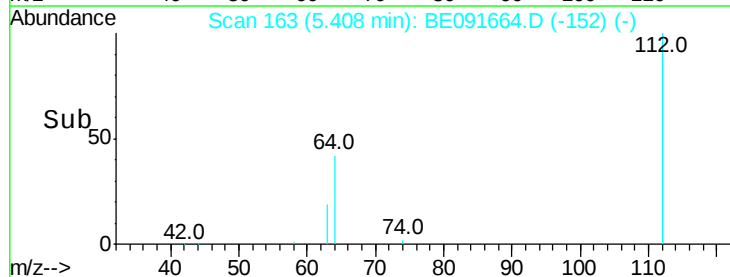
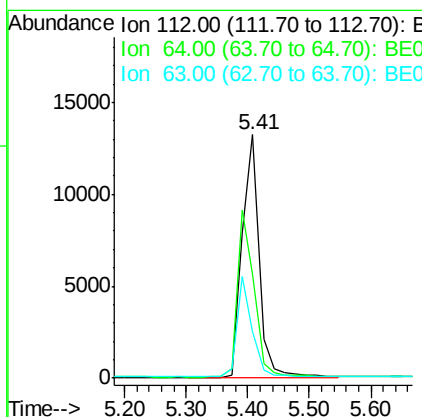
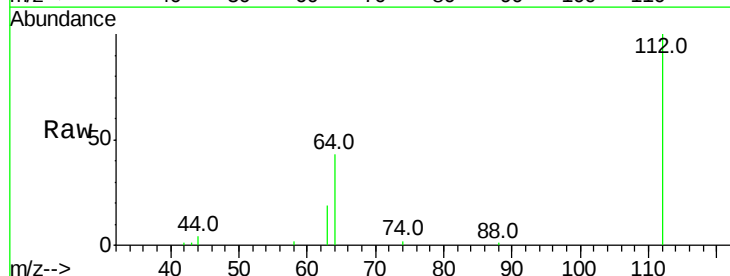
RT: 5.41 min Scan# 163

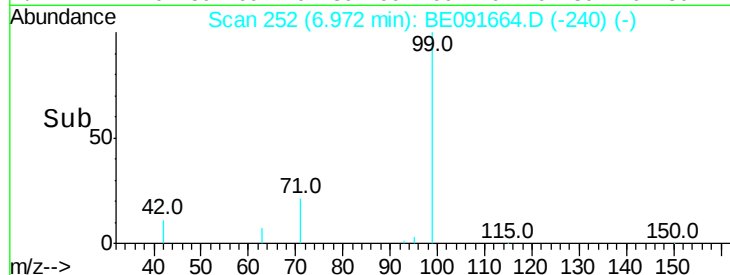
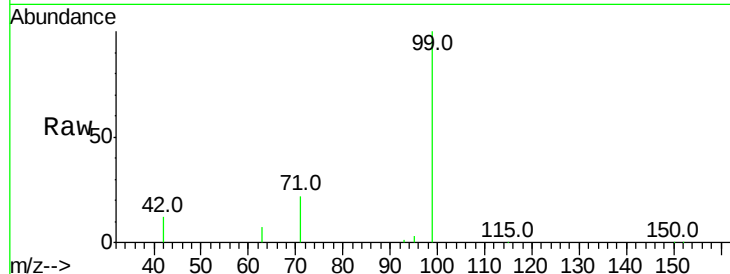
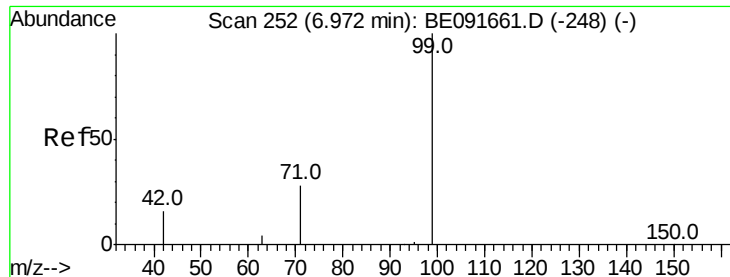
Delta R.T. -0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.9  | 30.9  | 46.3# |
| 63      | 37.0  | 16.7  | 25.1# |





#5

Phenol-d6

Concen: 3.14 ng

RT: 6.97 min Scan# 252

Delta R.T. 0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

Instrument :

BNA\_E

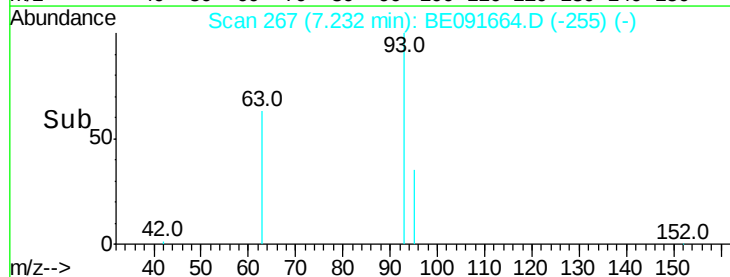
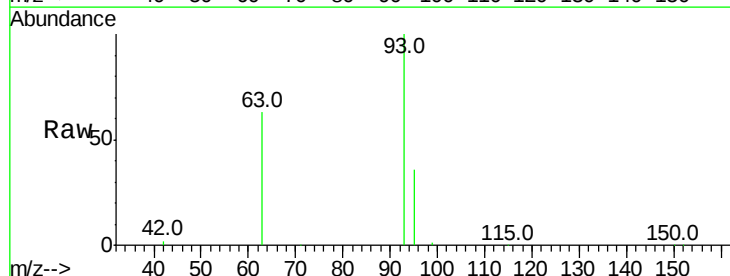
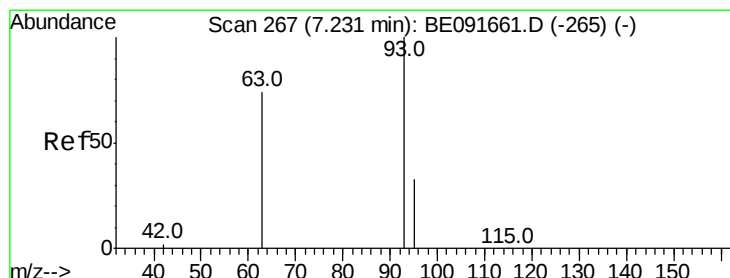
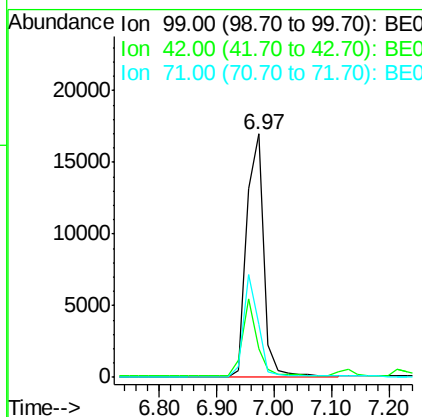
ClientSampleId :

SSTDICC3.2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 35225 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 26.8  | 16.2  | 24.2# |
| 71        | 36.0  | 29.0  | 43.4  |

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#6

bis(2-Chloroethyl)ether

Concen: 3.29 ng

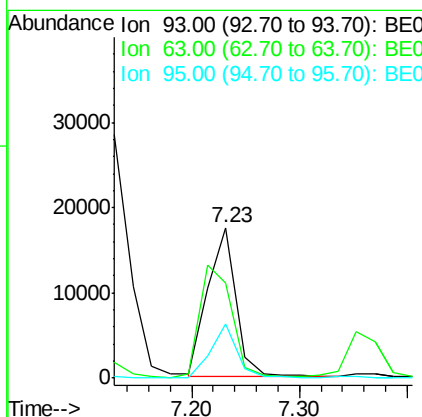
RT: 7.23 min Scan# 267

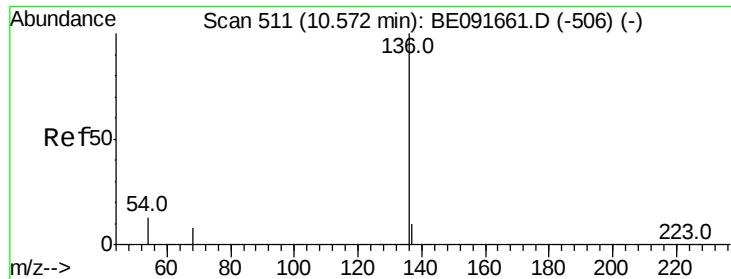
Delta R.T. 0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 93    | Resp: | 32089 |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 63        | 85.6  | 49.5  | 74.3# |
| 95        | 32.7  | 22.2  | 33.4  |





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.57 min Scan# 511

Delta R.T. -0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

Instrument :

BNA\_E

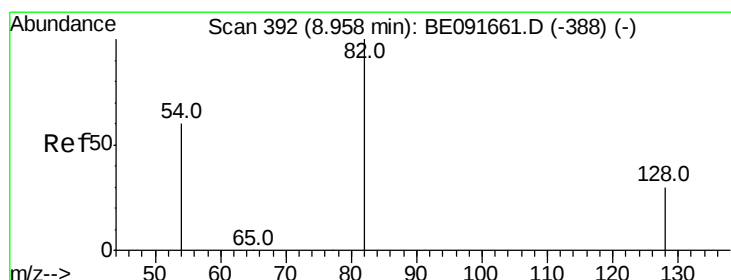
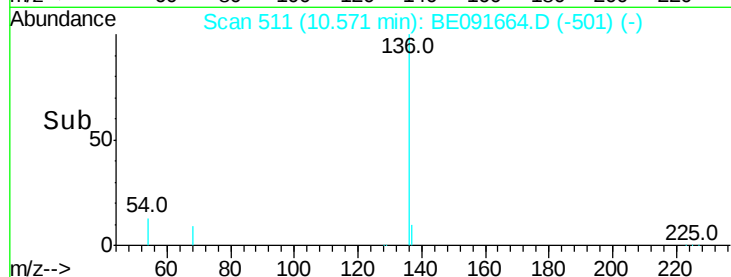
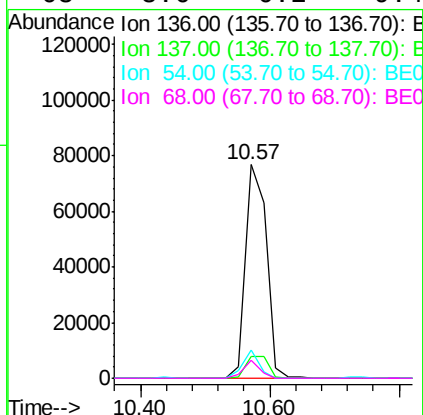
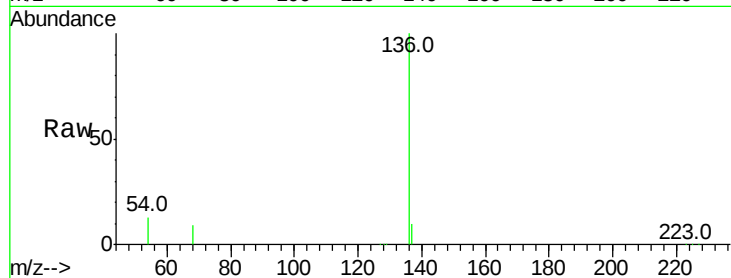
ClientSampleId :

SSTDICC3.2

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 10.0  | 8.9  | 13.3  |       |
| 54      | 13.4  | 8.2  | 12.4  |       |
| 68      | 8.6   | 6.2  | 9.4   |       |

Manual Integrations  
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#8

Nitrobenzene-d5

Concen: 3.07 ng

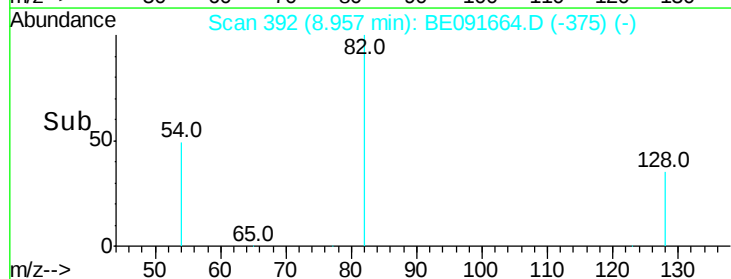
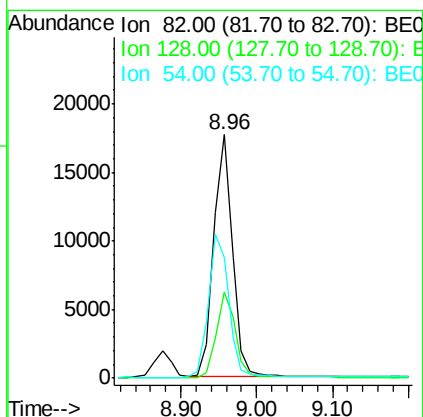
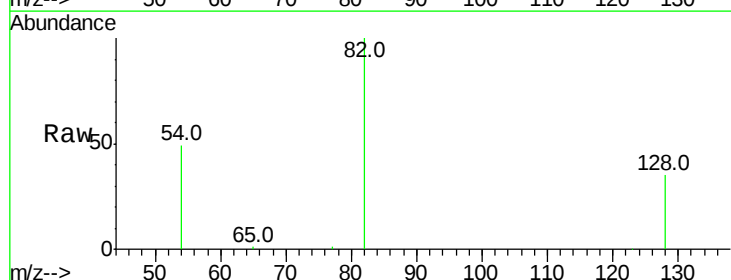
RT: 8.96 min Scan# 392

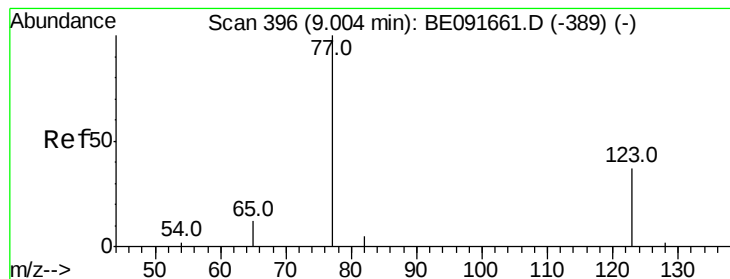
Delta R.T. -0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 35.2  | 25.4 | 38.0  |       |
| 54      | 49.4  | 48.4 | 72.6  |       |





#9

Nitrobenzene

Concen: 3.19 ng

RT: 8.99 min Scan# 395

Delta R.T. -0.01 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

Instrument :

BNA\_E

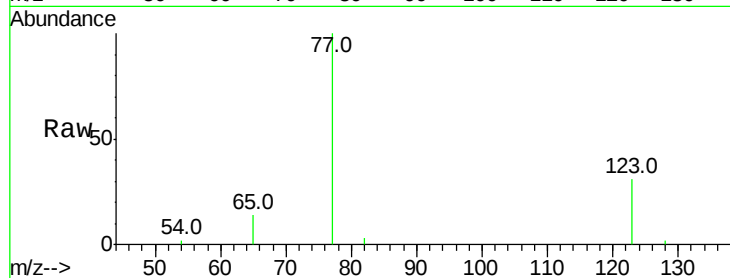
ClientSampleId :

SSTDICC3.2

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 77    | Resp: | 33324 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 123      | 36.6  | 26.9  | 40.3  |
| 65       | 13.9  | 9.4   | 14.2  |

Manual Integrations  
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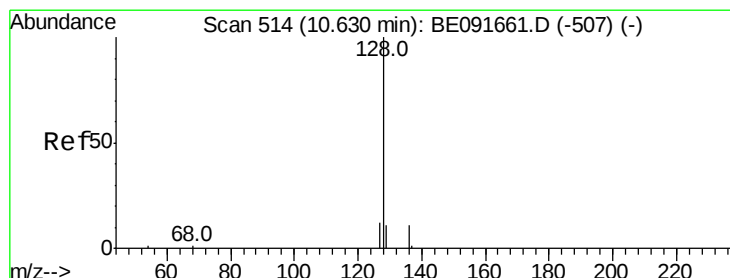
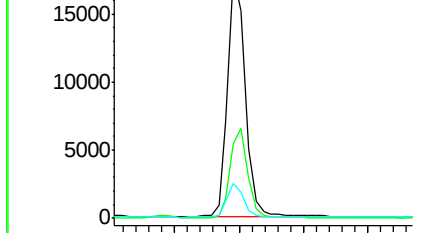
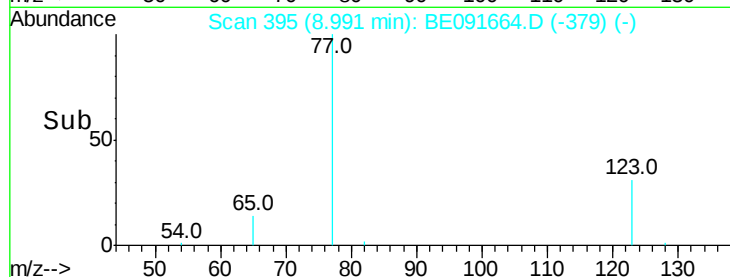


Abundance Ion 77.00 (76.70 to 77.70): BE091661.D (-389) (-)

Ion 123.00 (122.70 to 123.70): BE091661.D (-389) (-)

Ion 65.00 (64.70 to 65.70): BE091661.D (-389) (-)

Time-->



#10

Naphthalene

Concen: 3.19 ng

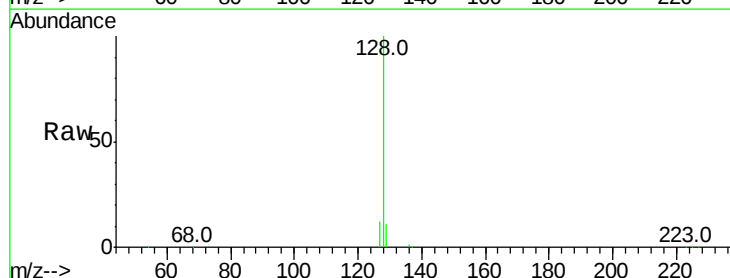
RT: 10.63 min Scan# 514

Delta R.T. -0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 112660 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 129      | 11.4  | 9.3   | 13.9   |
| 127      | 12.2  | 10.7  | 16.1   |

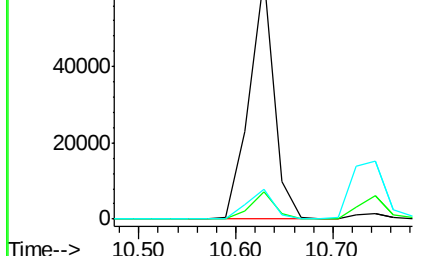
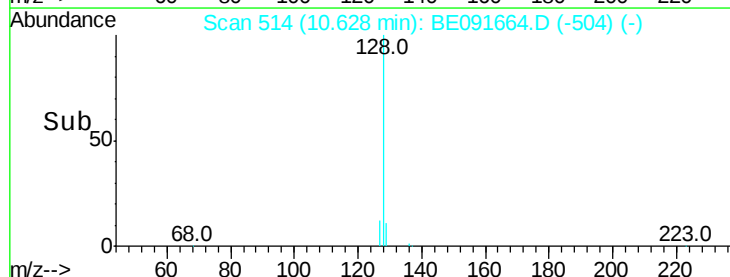


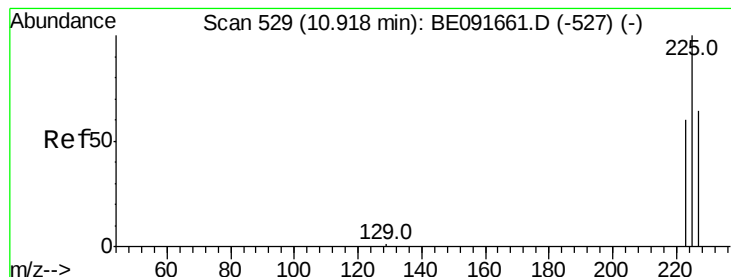
Abundance Ion 128.00 (127.70 to 128.70): BE091661.D (-507) (-)

Ion 129.00 (128.70 to 129.70): BE091661.D (-507) (-)

Ion 127.00 (126.70 to 127.70): BE091661.D (-507) (-)

Time-->





#11

Hexachlorobutadiene

Concen: 3.16 ng/ml

RT: 10.92 min Scan# 529

Delta R.T. -0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

Instrument :

BNA\_E

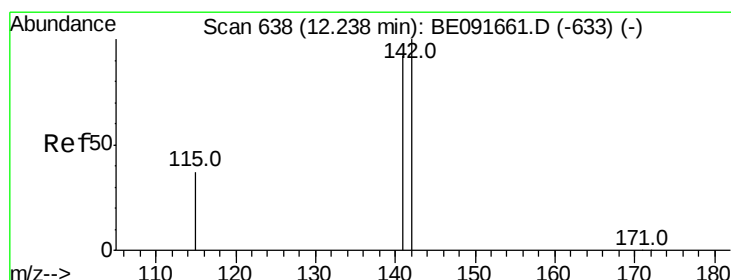
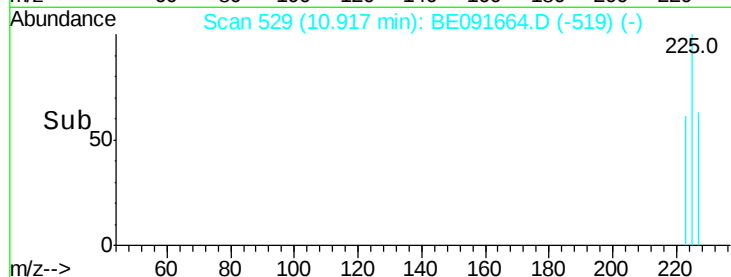
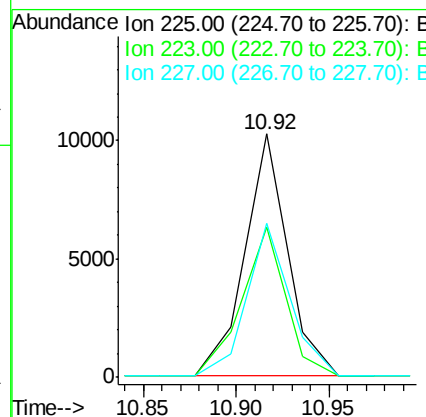
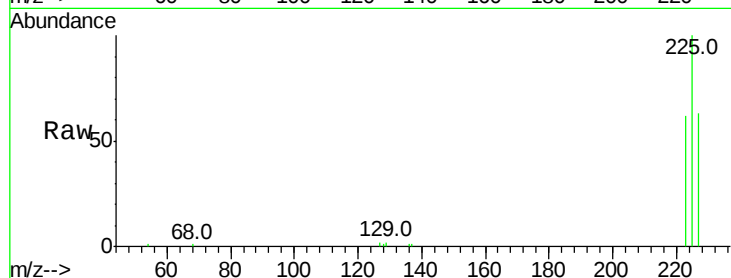
ClientSampleId :

SSTDICC3.2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 225   | Resp: | 16400 |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 71.0  | 49.0  | 73.6  |
| 227       | 71.7  | 50.3  | 75.5  |

Manual Integrations  
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4/19/2016 6:39:40 PM



#12

2-Methylnaphthalene

Concen: 3.30 ng/ml

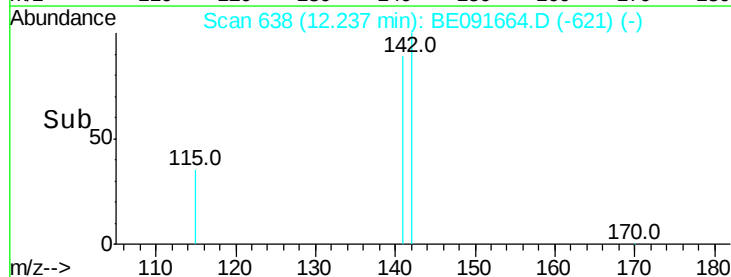
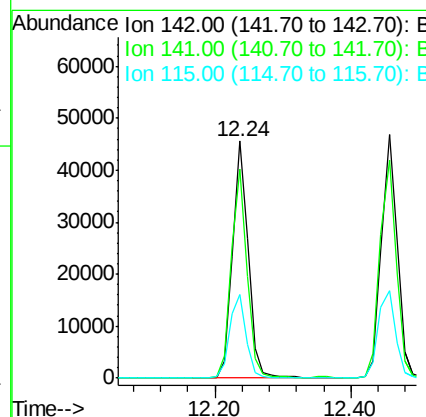
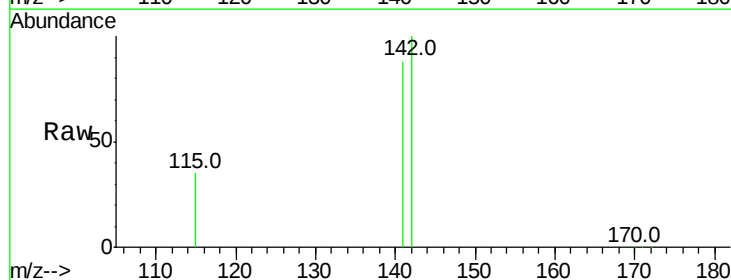
RT: 12.24 min Scan# 638

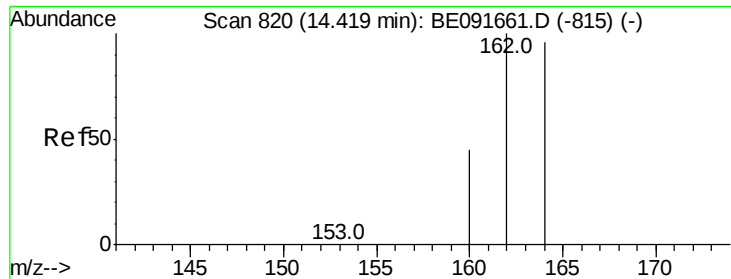
Delta R.T. -0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 74412 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 88.4  | 71.4  | 107.0 |
| 115       | 35.1  | 30.3  | 45.5  |





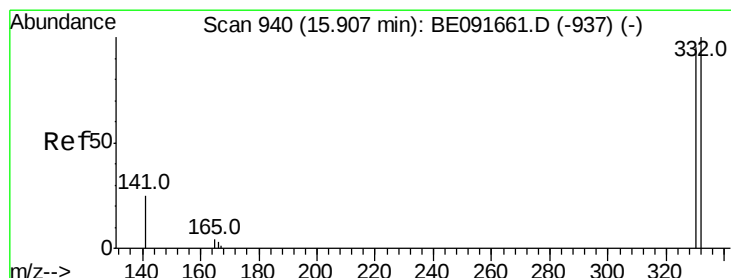
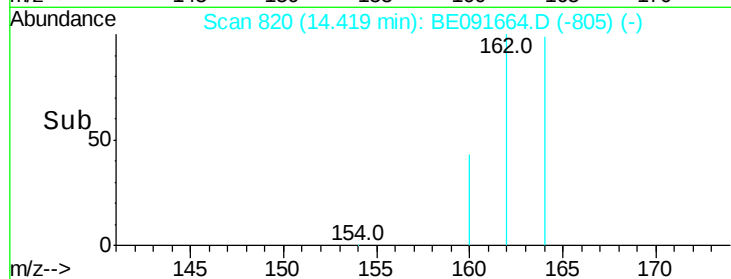
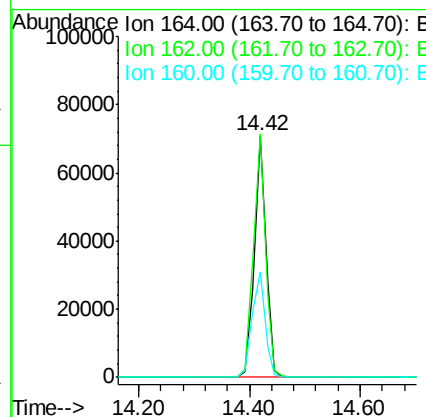
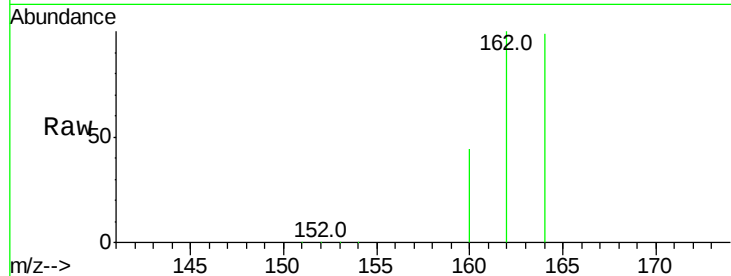
#13  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.42 min Scan# 820  
Delta R.T. 0.00 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC3.2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 103681 |       |       |
| 162     | 100.8 | 85.3   | 127.9 |       |
| 160     | 43.9  | 46.2   | 69.2  |       |

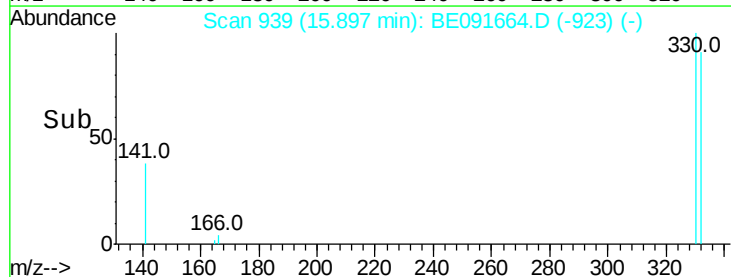
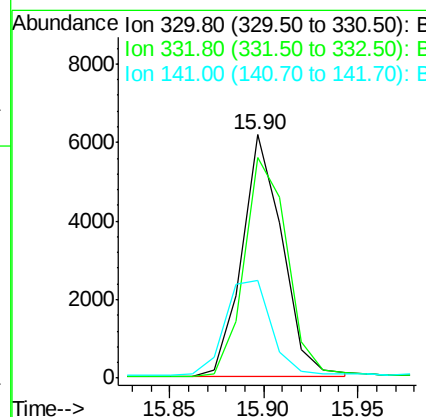
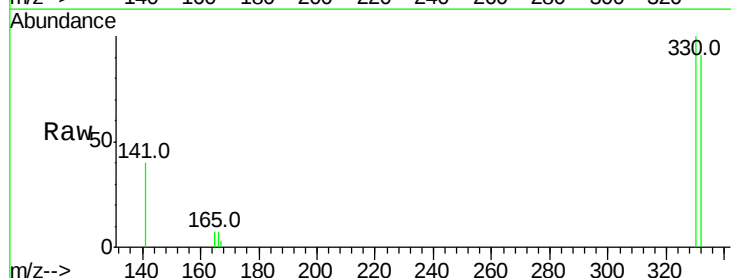
Manual Integrations  
APPROVED

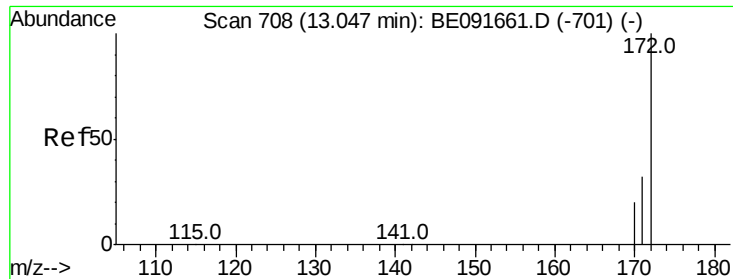
Sohil  
4/19/2016 6:39:40 PM



#14  
2,4,6-Tribromophenol  
Concen: 3.22 ng m  
RT: 15.90 min Scan# 939  
Delta R.T. -0.01 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 9200  |       |       |
| 332     | 115.0 | 79.1  | 118.7 |       |
| 141     | 45.3  | 125.4 | 188.0 |       |





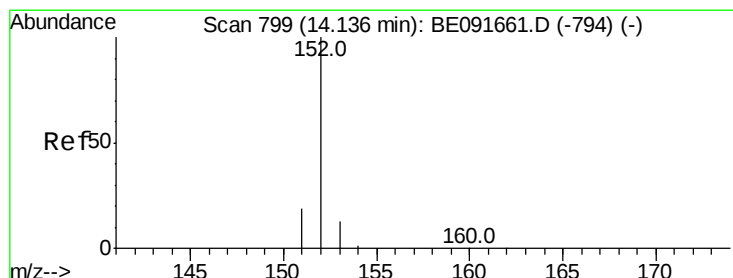
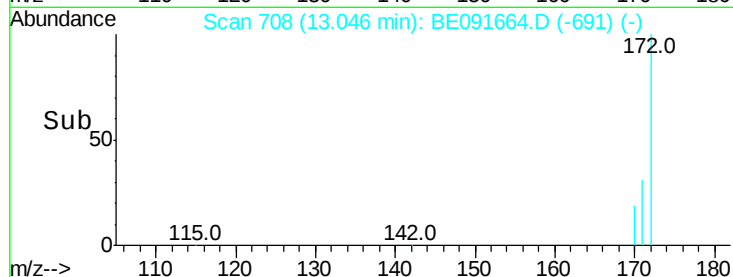
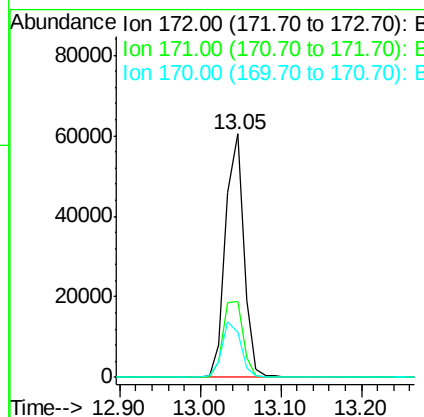
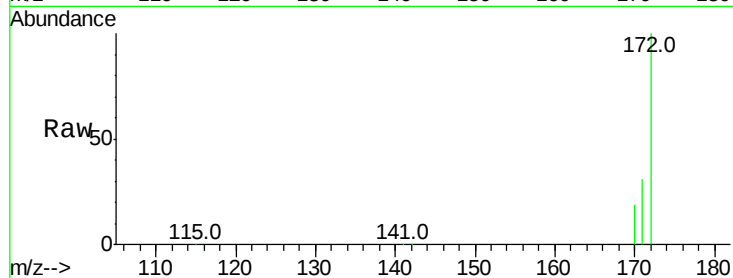
#15  
2-Fluorobiphenyl  
Concen: 3.30 ng  
RT: 13.05 min Scan# 708  
Delta R.T. -0.00 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC3.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 31.4  | 28.8  | 43.2  |
| 170     | 18.8  | 19.3  | 28.9  |

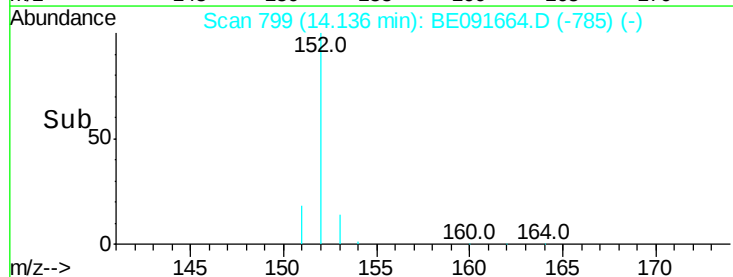
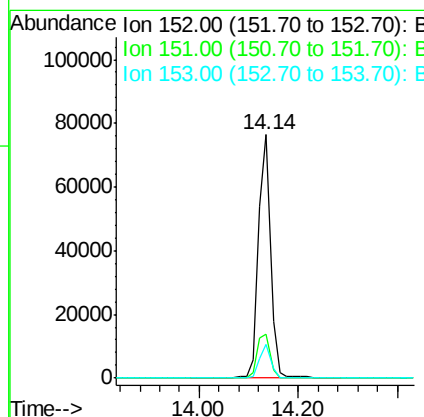
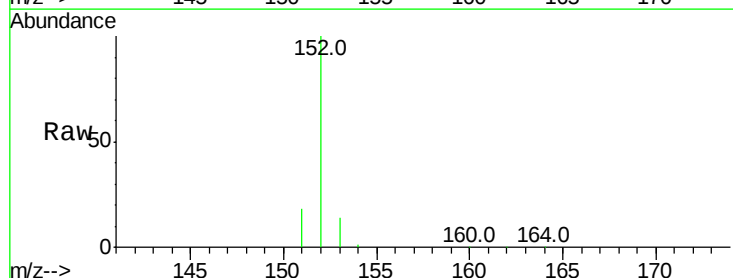
Manual Integrations  
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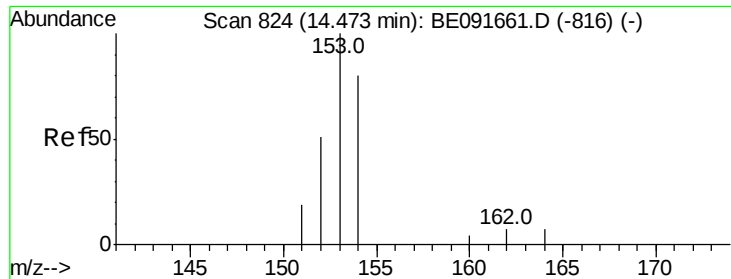
Sohil  
4/19/2016 6:39:40 PM



#16  
Acenaphthylene  
Concen: 3.43 ng  
RT: 14.14 min Scan# 799  
Delta R.T. 0.00 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 18.4  | 3.9   | 5.9   |
| 153     | 13.7  | 10.3  | 15.5  |





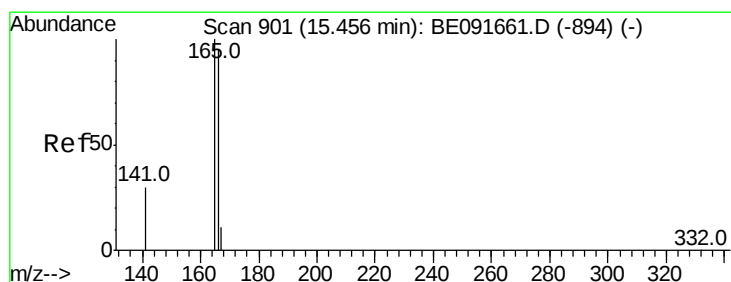
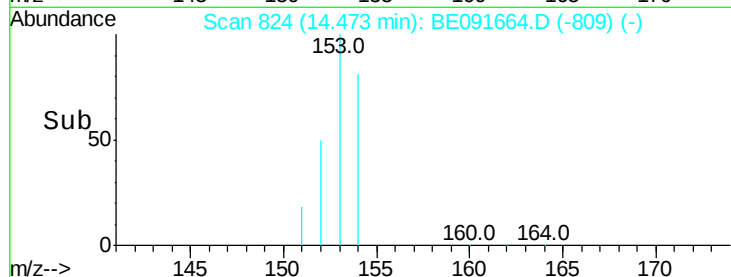
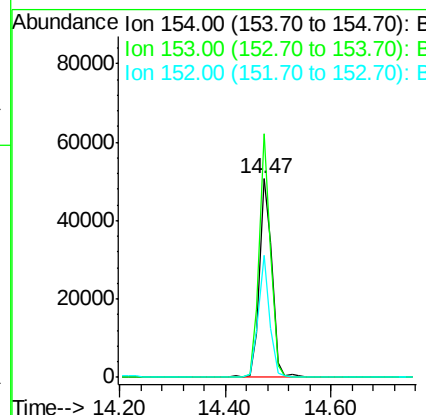
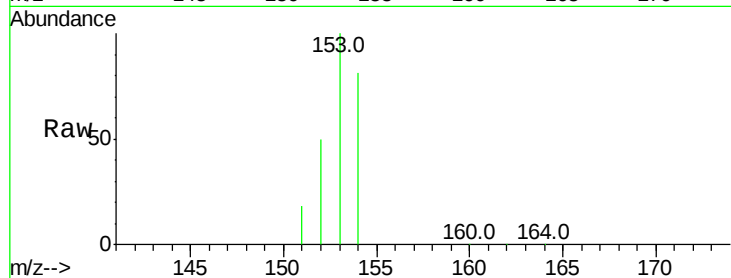
#17  
Acenaphthene  
Concen: 3.27 ng  
RT: 14.47 min Scan# 824  
Delta R.T. 0.00 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC3.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 112.3 | 80.0  | 120.0 |
| 152     | 55.4  | 40.0  | 60.0  |

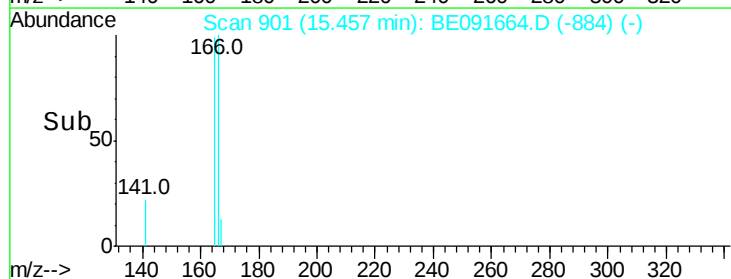
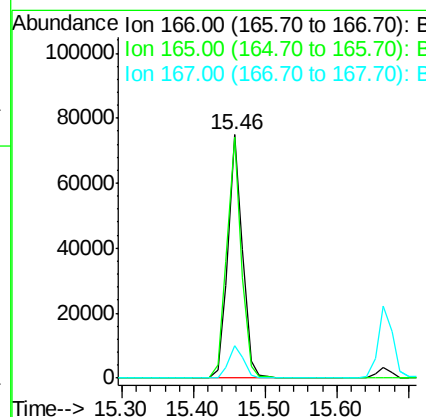
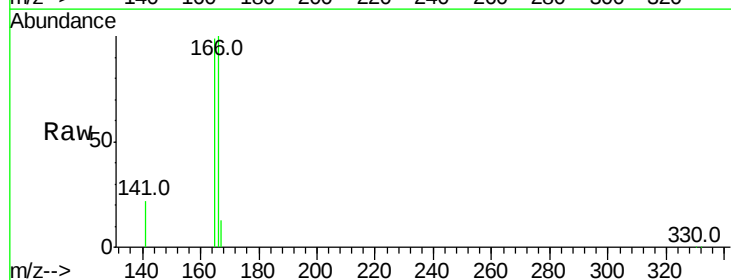
Manual Integrations  
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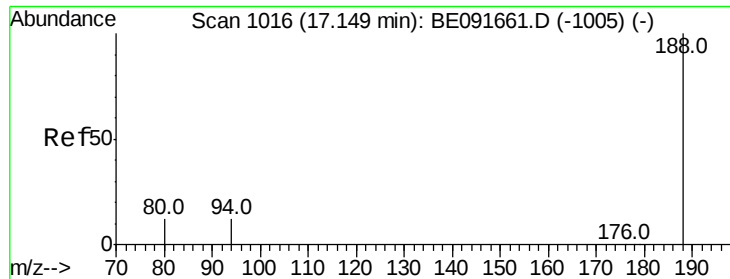
Sohil  
4/19/2016 6:39:40 PM



#18  
Fluorene  
Concen: 3.33 ng  
RT: 15.46 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.4  | 80.8  | 121.2 |
| 167     | 13.6  | 10.9  | 16.3  |





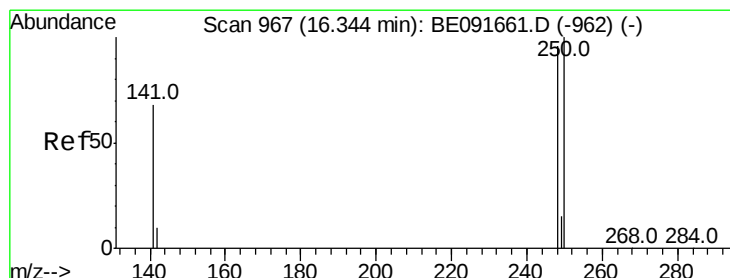
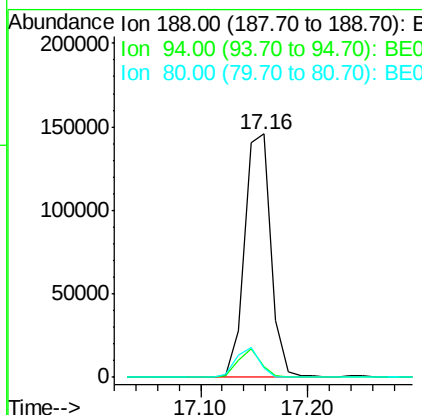
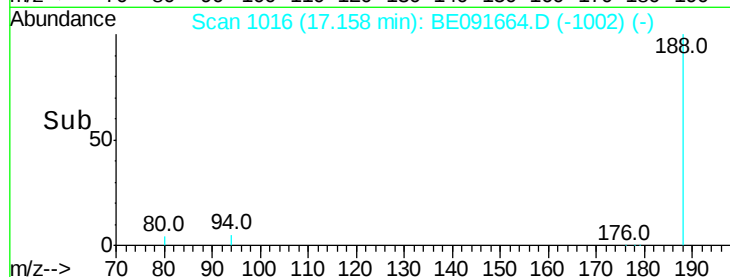
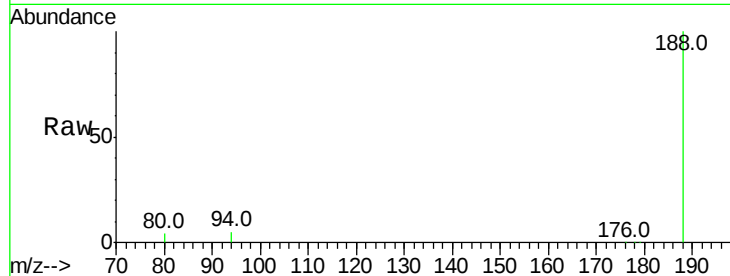
#19  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.16 min Scan# 1016  
Delta R.T. 0.01 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC3.2

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 4.6   | 8.7        | 13.1# |
| 80      | 3.8   | 9.4        | 14.0# |

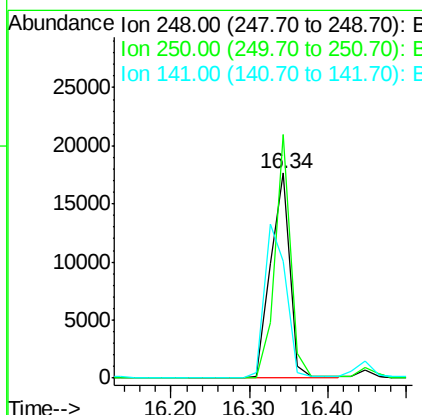
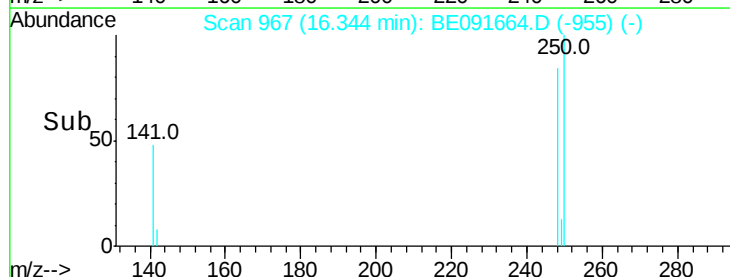
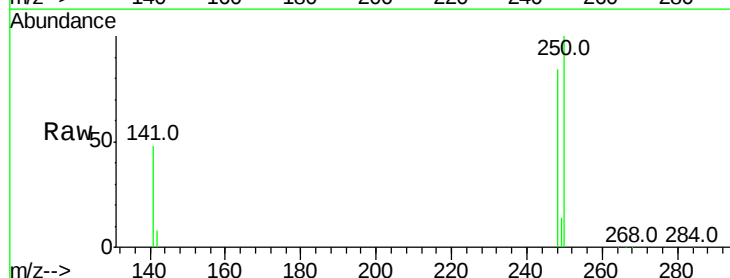
Manual Integrations  
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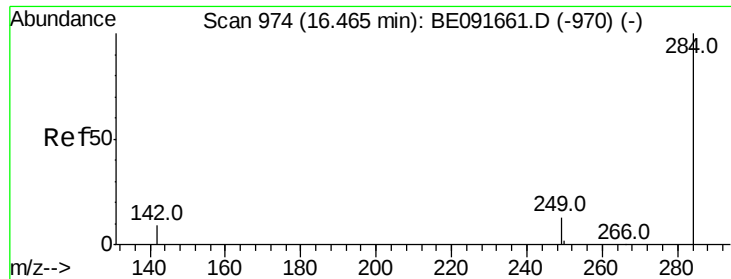
Sohil  
4/19/2016 6:39:40 PM



#20  
4-Bromophenyl-phenylether  
Concen: 3.42 ng  
RT: 16.34 min Scan# 967  
Delta R.T. 0.00 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 248     | 100   |            |       |
| 250     | 97.8  | 80.5       | 120.7 |
| 141     | 84.3  | 72.0       | 108.0 |





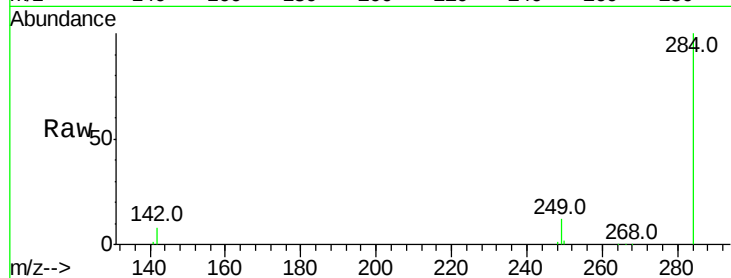
#21  
Hexachlorobenzene  
Concen: 3.34 ng  
RT: 16.46 min Scan# 974  
Delta R.T. 0.00 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC3.2

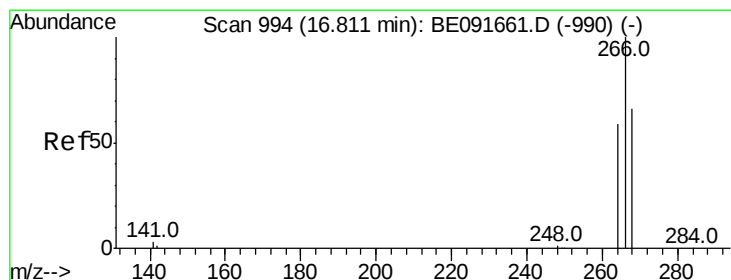
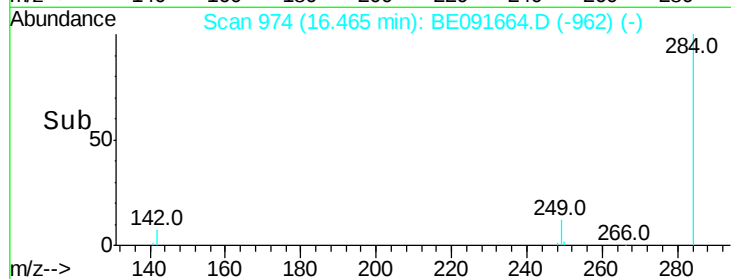
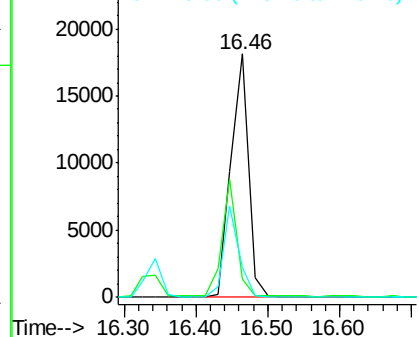
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 284     | 100   |      |       |       |
| 142     | 42.0  | 32.2 | 48.2  |       |
| 249     | 33.2  | 25.4 | 38.2  |       |

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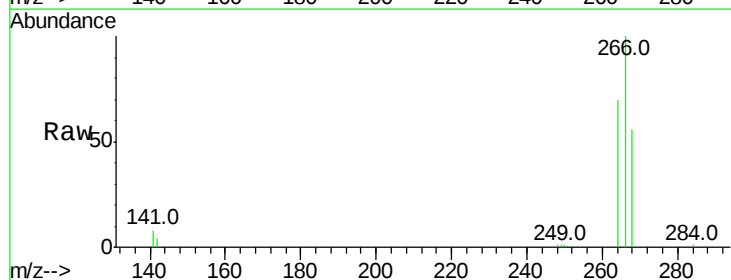


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

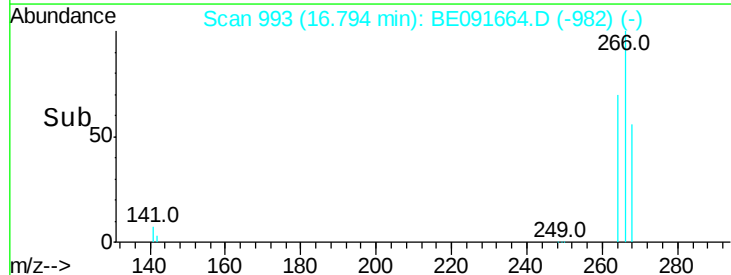
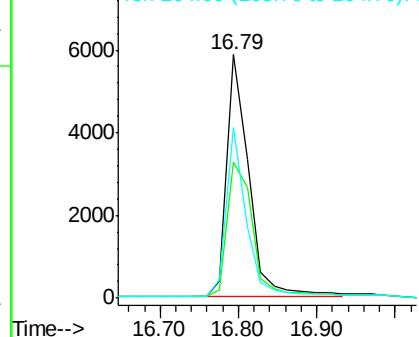


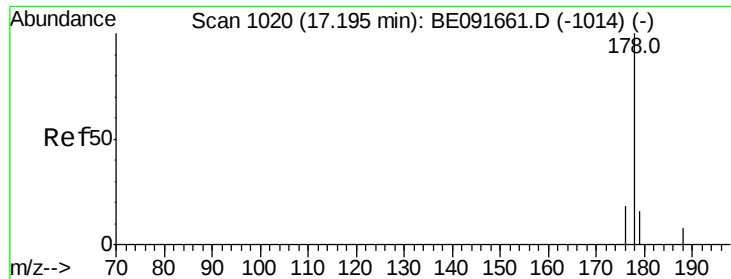
#22  
Pentachlorophenol  
Concen: 3.35 ng  
RT: 16.79 min Scan# 993  
Delta R.T. -0.02 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 266     | 100   |      |       |       |
| 268     | 56.0  | 58.2 | 87.2# |       |
| 264     | 70.4  | 56.2 | 84.4  |       |



Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 268.00 (267.70 to 268.70): E  
Ion 264.00 (263.70 to 264.70): E





#23

Phenanthrene

Concen: 3.29 ng

RT: 17.19 min Scan# 1019

Delta R.T. -0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

Instrument :

BNA\_E

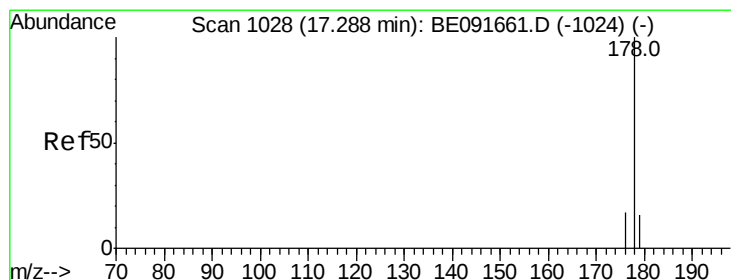
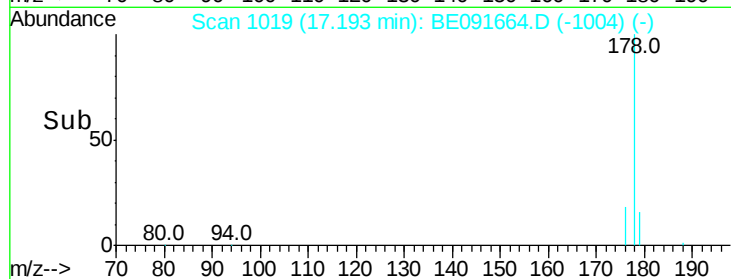
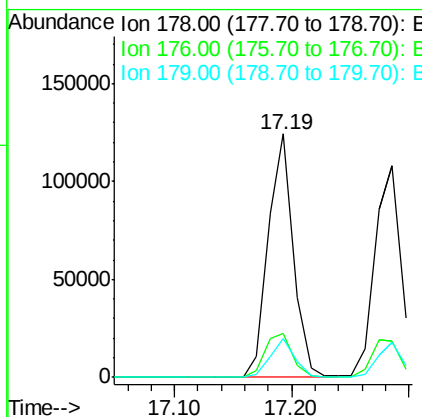
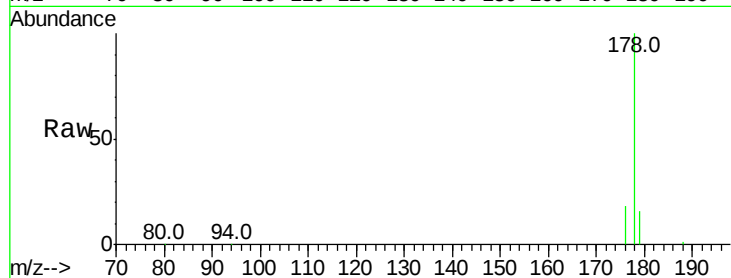
ClientSampleId :

SSTDICC3.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 15.3  | 22.9  |
| 179     | 15.5  | 12.6  | 18.8  |

Manual Integrations  
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4/19/2016 6:39:40 PM



#24

Anthracene

Concen: 3.48 ng

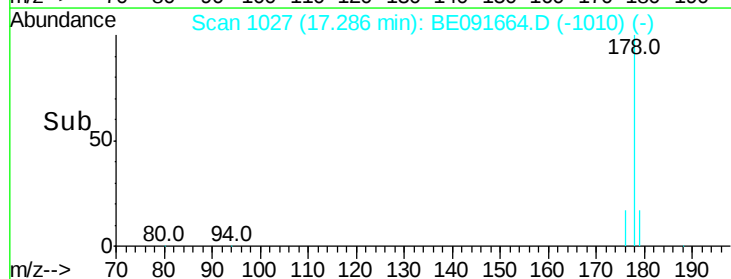
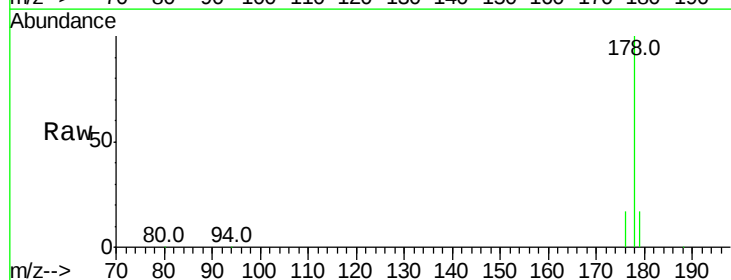
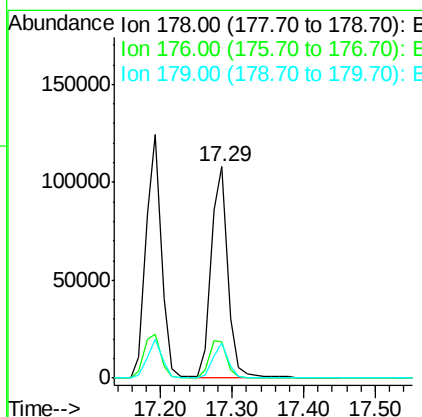
RT: 17.29 min Scan# 1027

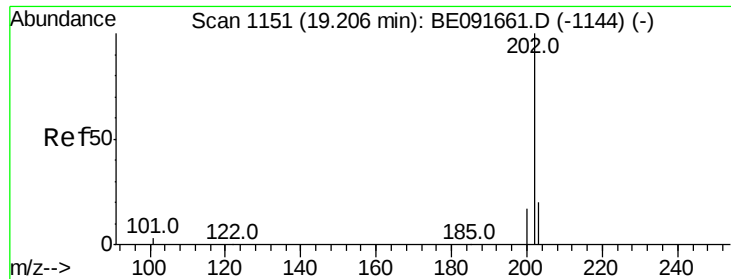
Delta R.T. -0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 14.6  | 21.8  |
| 179     | 15.5  | 11.8  | 17.6  |





#25

Fluoranthene

Concen: 3.23 ng

RT: 19.20 min Scan# 1150

Delta R.T. -0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

Instrument :

BNA\_E

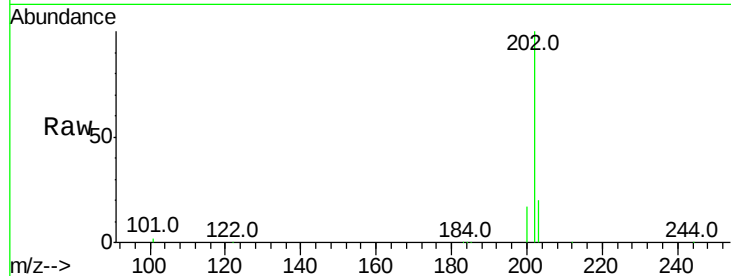
ClientSampleId :

SSTDICC3.2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 191925 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.8  | 11.0  | 16.6   |
| 203       | 17.7  | 13.9  | 20.9   |

Manual Integrations  
APPROVED

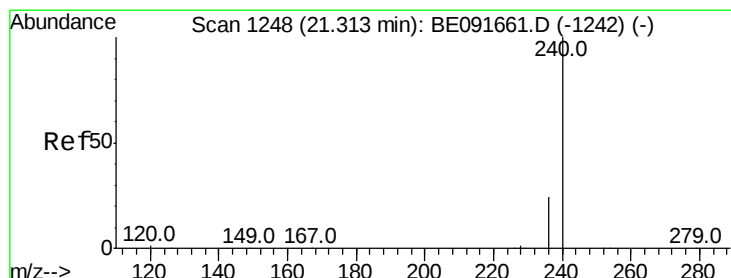
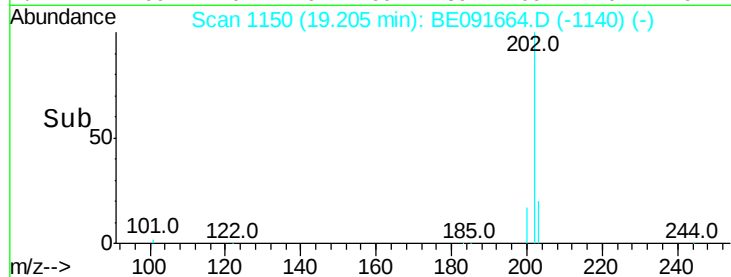
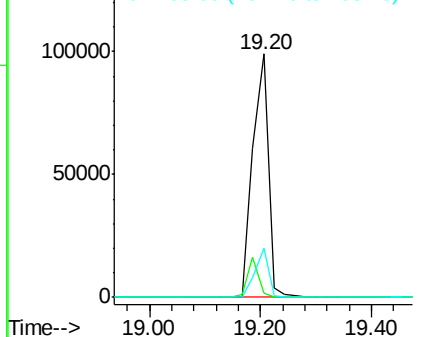
Sohil  
4/19/2016 6:39:40 PM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#26

Chrysene-d12

Concen: 5.00 ng

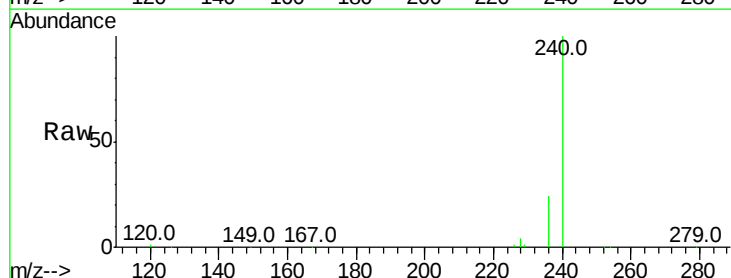
RT: 21.31 min Scan# 1247

Delta R.T. -0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

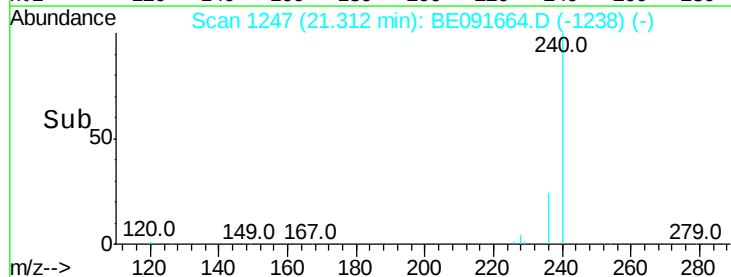
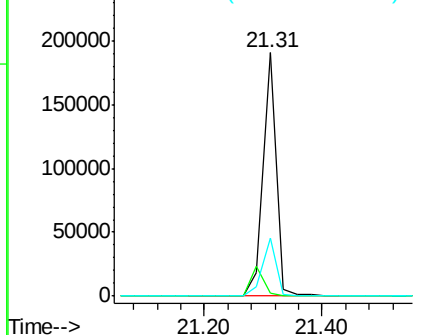
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 301330 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 1.4   | 11.0  | 16.4#  |
| 236       | 24.0  | 21.7  | 32.5   |

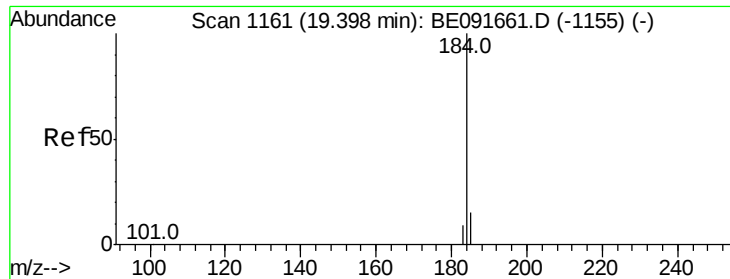


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 3.05 ng

RT: 19.38 min Scan# 1159

Delta R.T. -0.02 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

Instrument :

BNA\_E

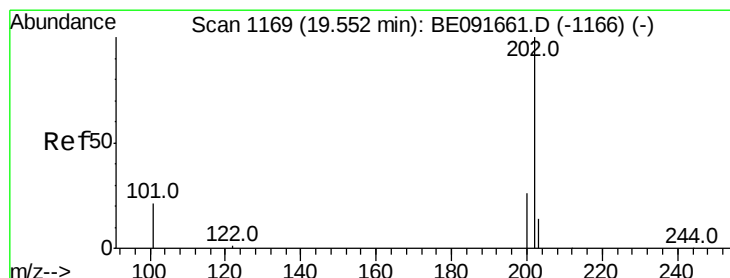
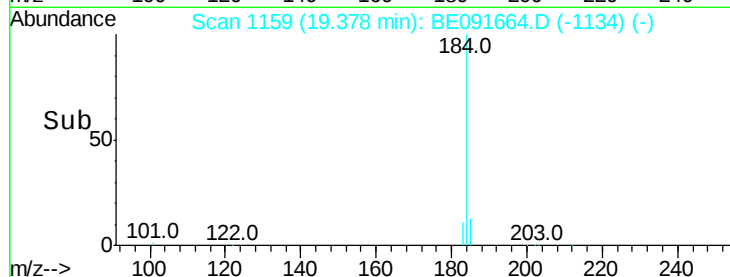
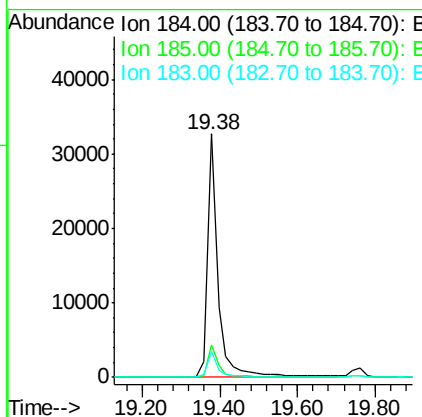
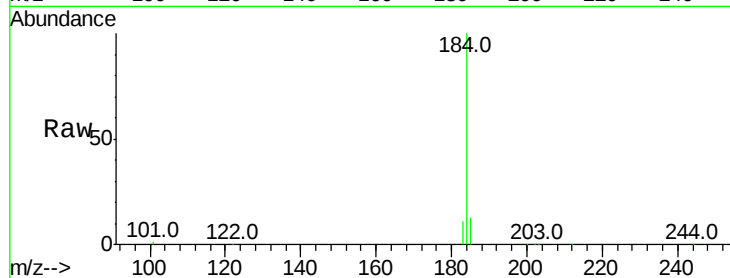
ClientSampleId :

SSTDICC3.2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 184   | Resp: | 60518 |
| Ion Ratio | Lower | Upper |       |
| 184       | 100   |       |       |
| 185       | 13.5  | 22.3  | 33.5# |
| 183       | 10.9  | 16.4  | 24.6# |

Manual Integrations  
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#28

Pyrene

Concen: 3.43 ng

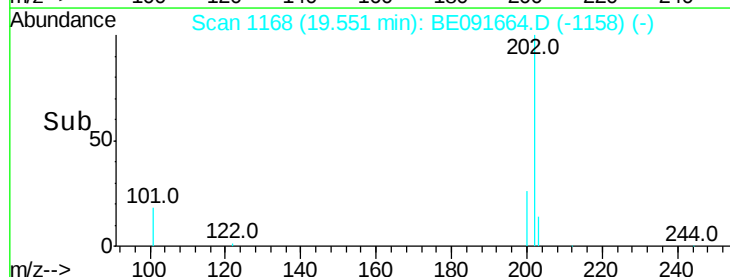
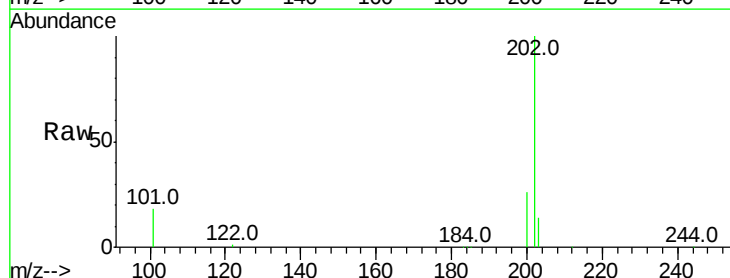
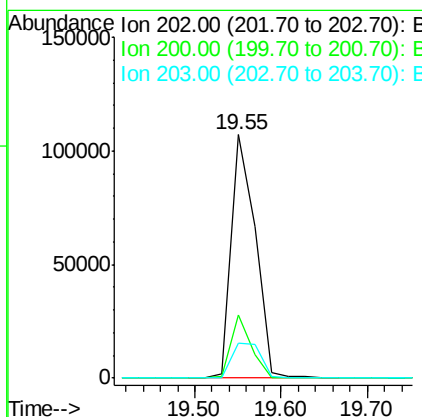
RT: 19.55 min Scan# 1168

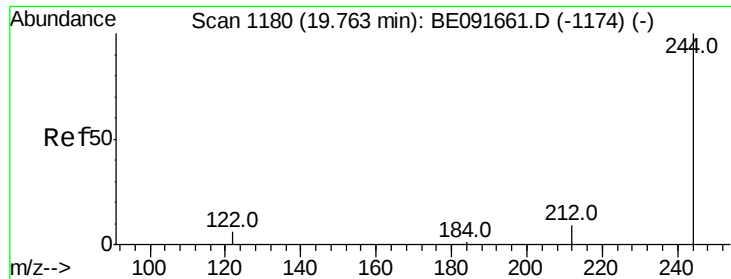
Delta R.T. -0.00 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 206531 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 22.1  | 16.8  | 25.2   |
| 203       | 17.3  | 14.0  | 21.0   |





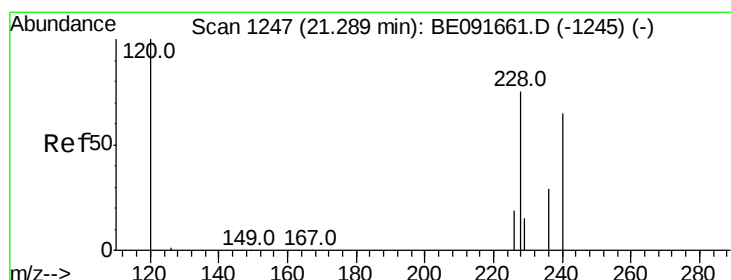
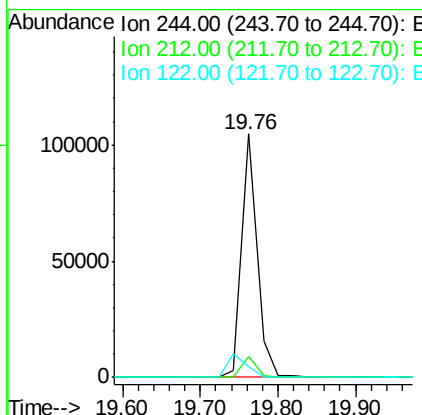
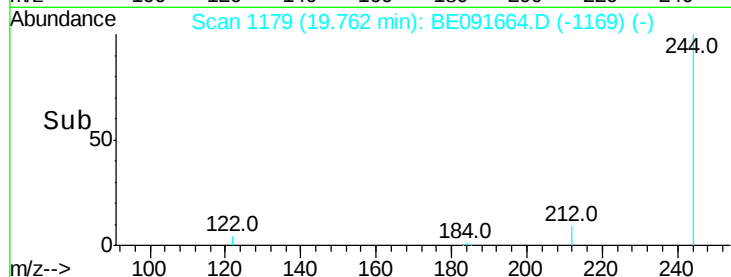
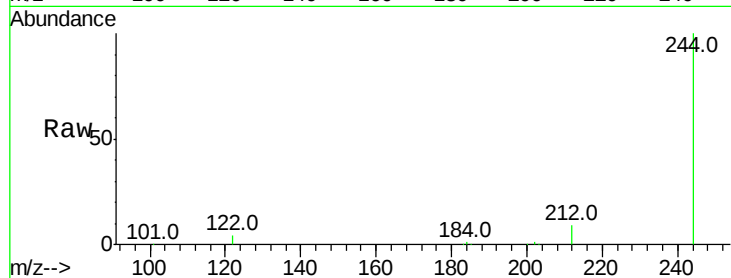
#29  
 Terphenyl-d14  
 Concen: 3.83 ng  
 RT: 19.76 min Scan# 1179  
 Delta R.T. -0.00 min  
 Lab File: BE091664.D  
 Acq: 18 Apr 2016 14:29

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDICC3.2

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 8.8   | 6.9        | 10.3  |
| 122     | 4.2   | 11.0       | 16.4  |

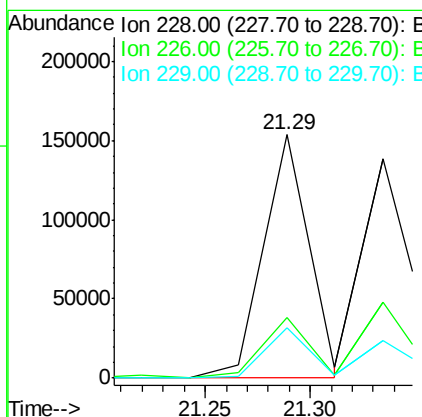
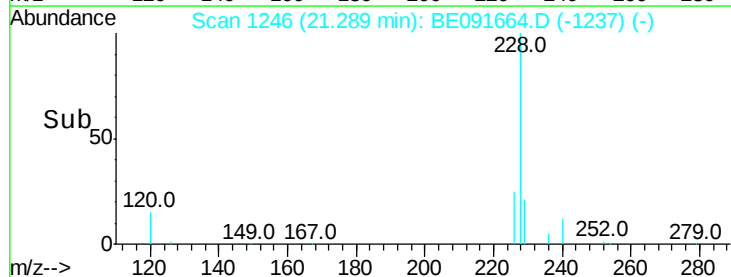
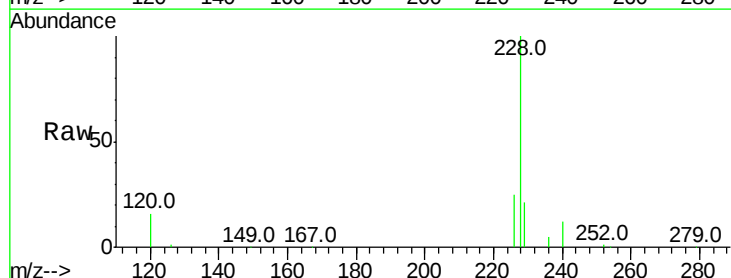
Manual Integrations  
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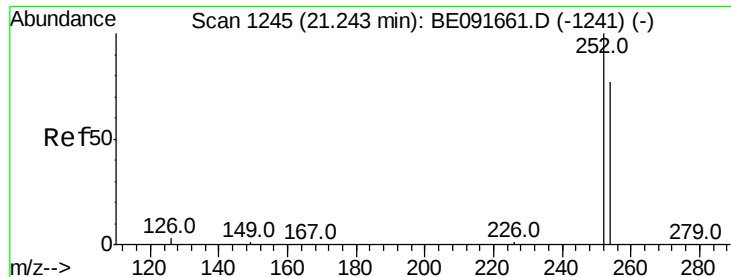
Sohil  
 4/19/2016 6:39:40 PM



#30  
 Benzo(a)anthracene  
 Concen: 3.46 ng m  
 RT: 21.29 min Scan# 1246  
 Delta R.T. -0.00 min  
 Lab File: BE091664.D  
 Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 226     | 25.0  | 21.0       | 31.4  |
| 229     | 20.8  | 15.7       | 23.5  |





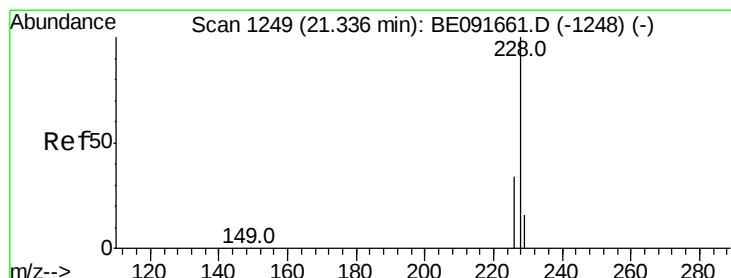
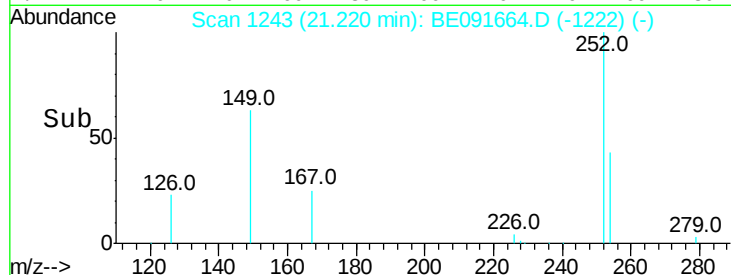
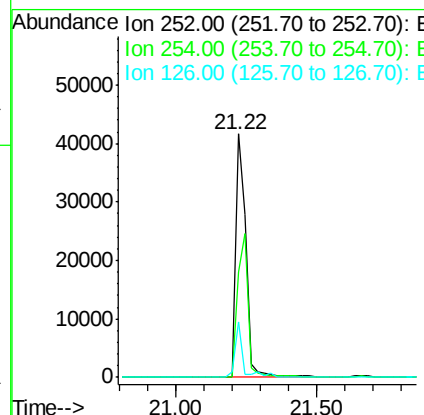
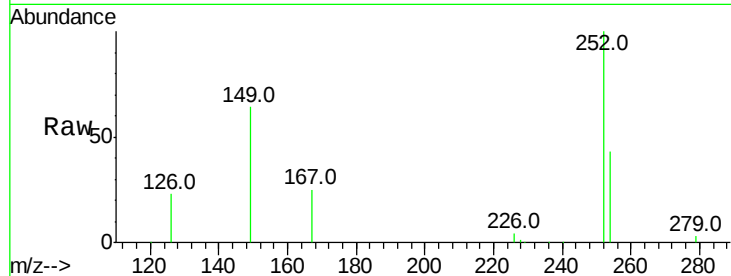
#31  
 3,3'-Dichlorobenzidine  
 Concen: 2.87 ng  
 RT: 21.22 min Scan# 1243  
 Delta R.T. -0.02 min  
 Lab File: BE091664.D  
 Acq: 18 Apr 2016 14:29

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDICC3.2

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 252     | 100   |      |       |       |
| 254     | 43.3  | 51.1 | 76.7# |       |
| 126     | 23.0  | 12.6 | 18.8# |       |

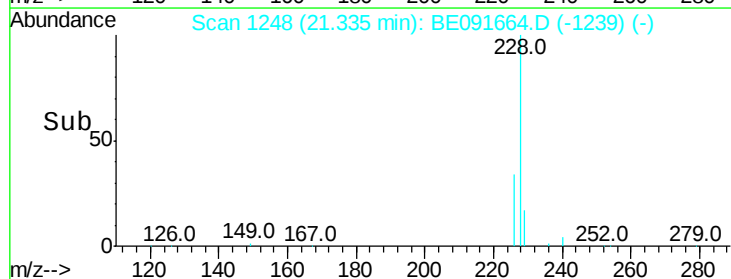
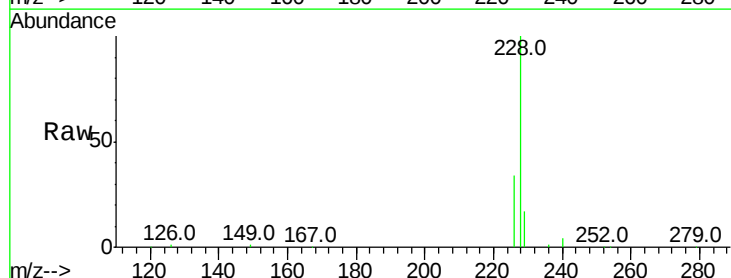
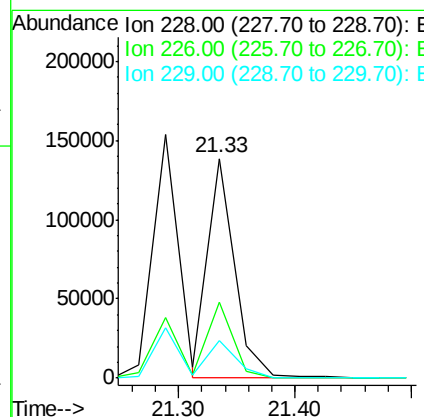
Manual Integrations  
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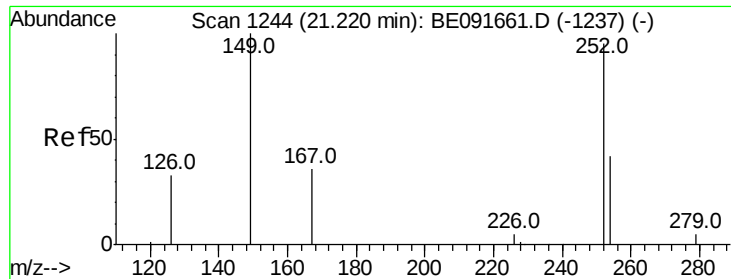
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 4/19/2016 6:39:40 PM



#32  
 Chrysene  
 Concen: 3.71 ng m  
 RT: 21.33 min Scan# 1248  
 Delta R.T. -0.00 min  
 Lab File: BE091664.D  
 Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 228     | 100   |      |       |       |
| 226     | 34.5  | 24.0 | 36.0  |       |
| 229     | 17.0  | 15.9 | 23.9  |       |





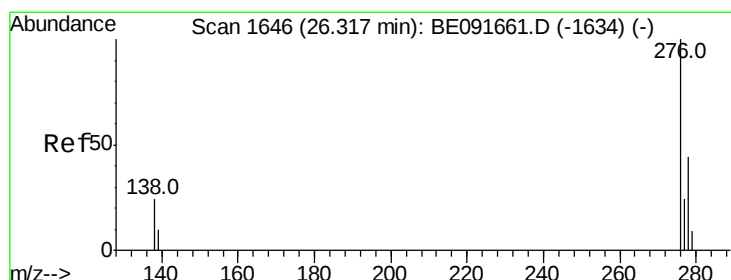
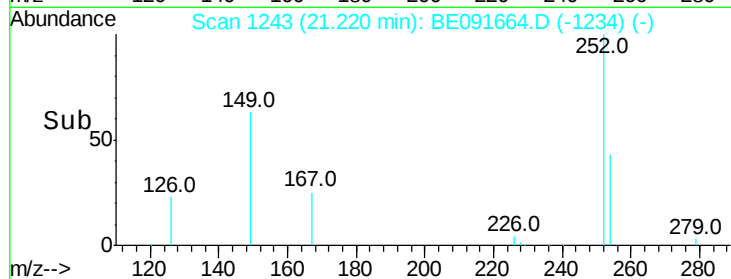
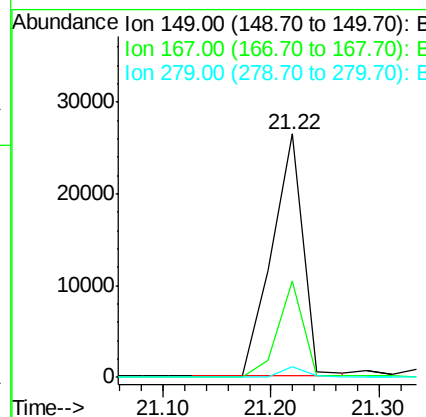
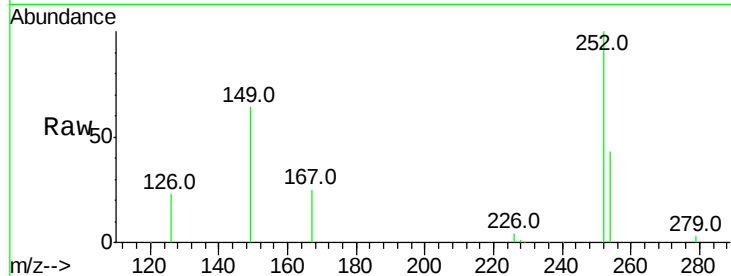
#33  
 Bis(2-ethylhexyl)phthalate  
 Concen: 1.78 ng  
 RT: 21.22 min Scan# 1243  
 Delta R.T. -0.00 min  
 Lab File: BE091664.D  
 Acq: 18 Apr 2016 14:29

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDICC3.2

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 149     | 100   | 53090 |       |       |
| 167     | 32.6  | 19.5  | 29.3  |       |
| 279     | 3.5   | 10.0  | 15.0  |       |

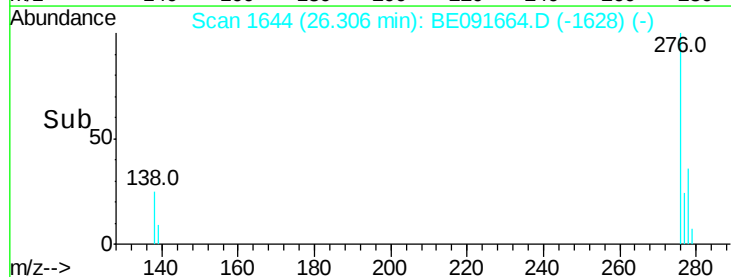
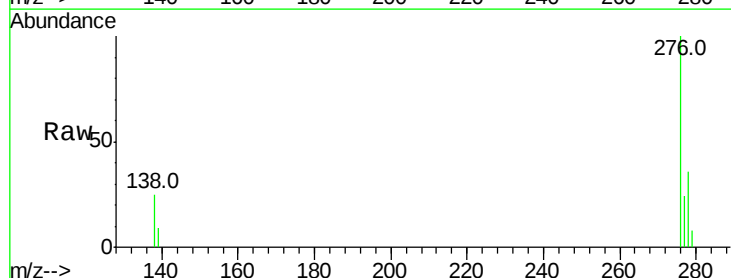
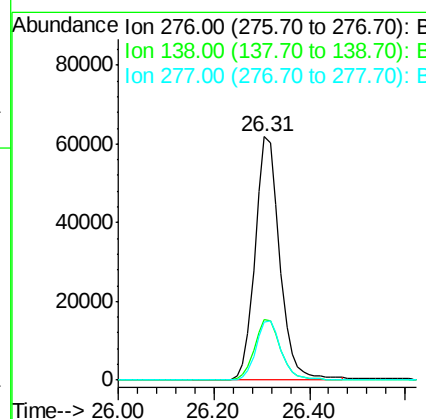
Manual Integrations  
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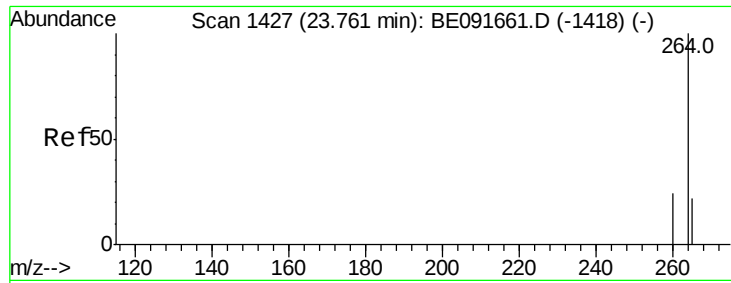
Sohil  
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#34  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.23 ng  
 RT: 26.31 min Scan# 1644  
 Delta R.T. -0.01 min  
 Lab File: BE091664.D  
 Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 220502 |       |       |
| 138     | 26.1  | 23.4   | 35.2  |       |
| 277     | 24.8  | 19.8   | 29.8  |       |





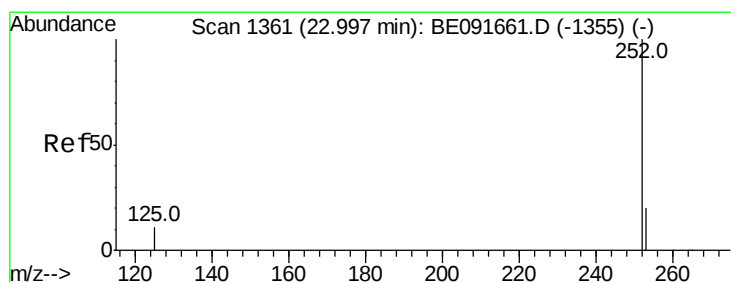
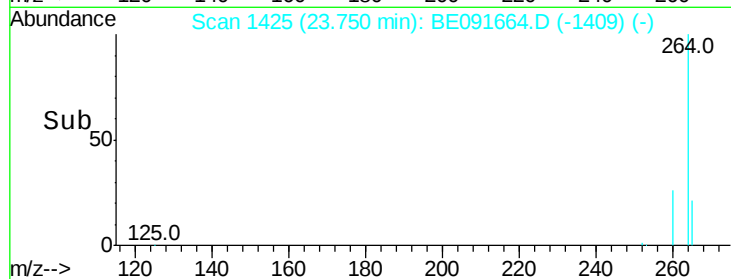
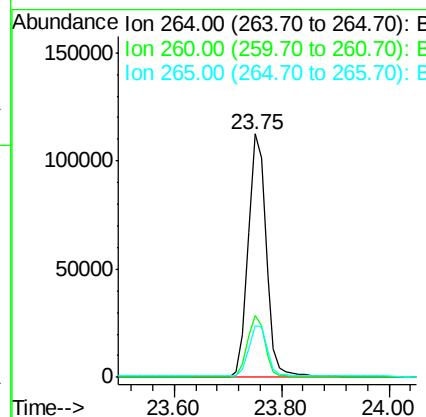
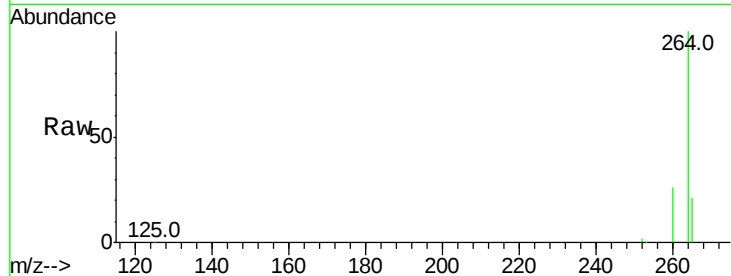
#35  
Pervlene-d12  
Concen: 5.00 ng  
RT: 23.75 min Scan# 1425  
Delta R.T. -0.01 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC3.2

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 25.7  | 20.0       | 30.0  |
| 265     | 21.2  | 17.5       | 26.3  |

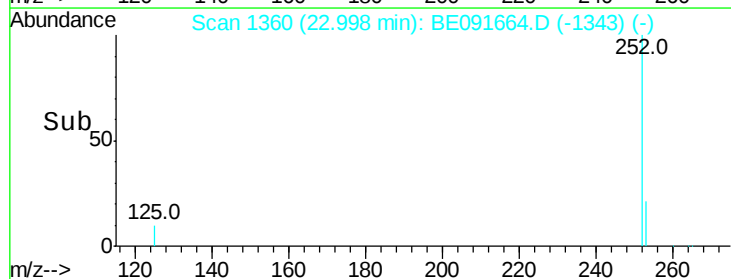
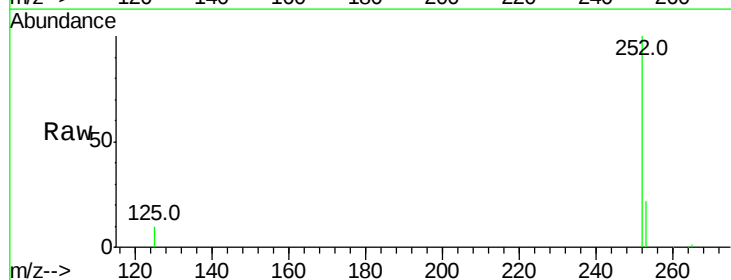
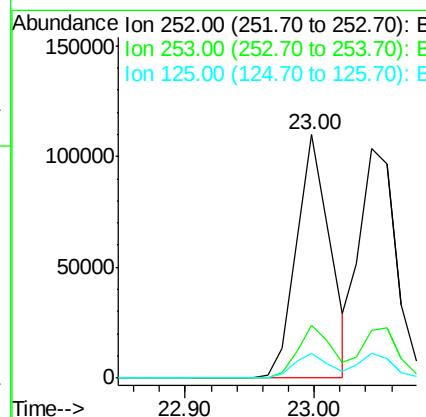
Manual Integrations  
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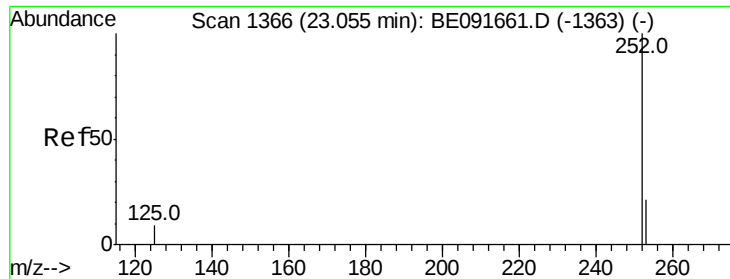
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#36  
Benzo(b)fluoranthene  
Concen: 3.27 ng  
RT: 23.00 min Scan# 1360  
Delta R.T. 0.00 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 21.5  | 17.4       | 26.0  |
| 125     | 10.2  | 10.2       | 15.2  |





#37

Benzo(k)fluoranthene

Concen: 3.46 ng

RT: 23.04 min Scan# 1364

Delta R.T. -0.01 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

Instrument :

BNA\_E

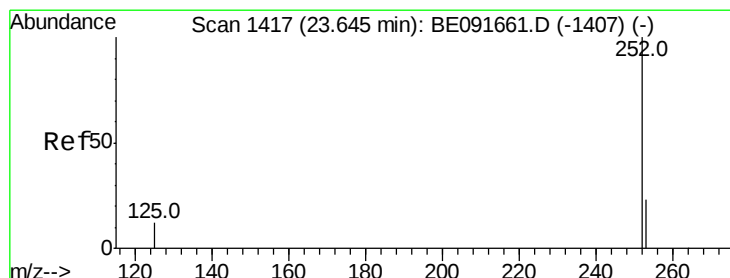
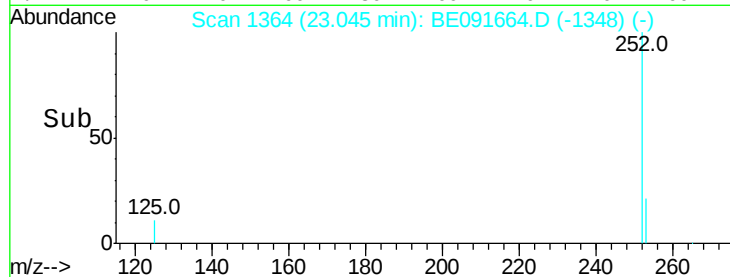
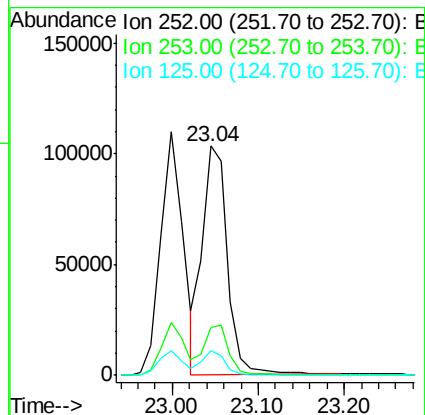
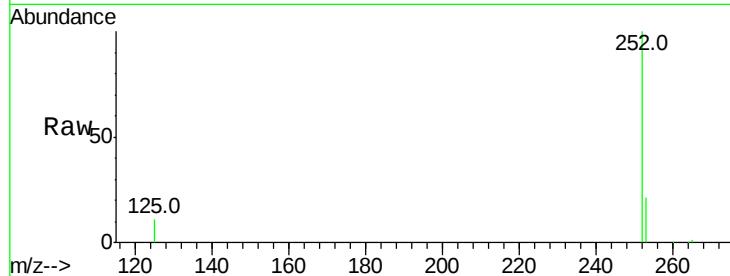
ClientSampleId :

SSTDICC3.2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 207462 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 20.8  | 17.6  | 26.4   |
| 125       | 10.7  | 9.9   | 14.9   |

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#38

Benzo(a)pyrene

Concen: 3.25 ng

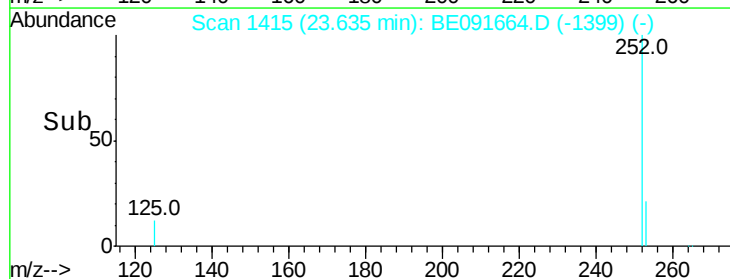
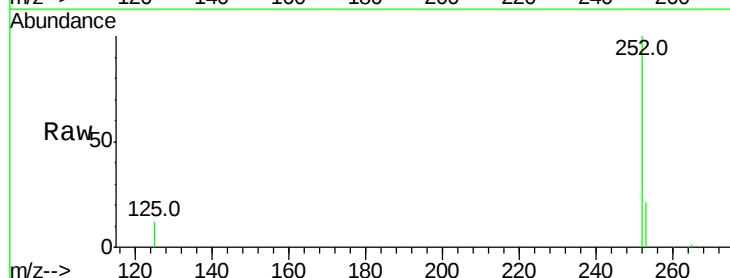
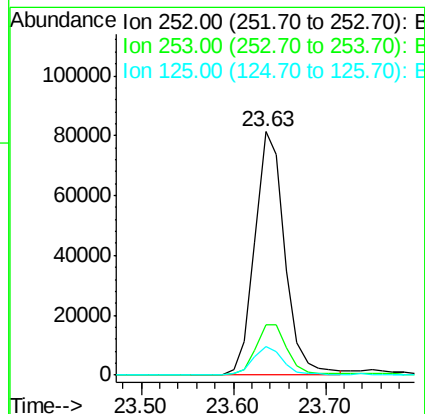
RT: 23.63 min Scan# 1415

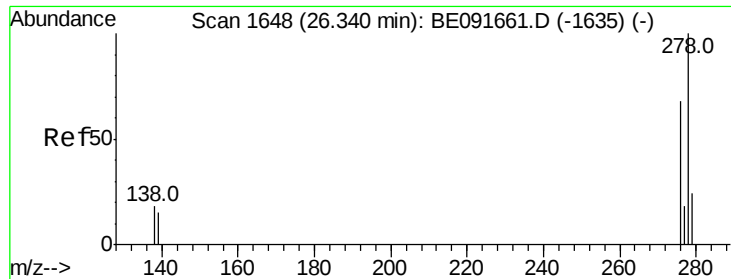
Delta R.T. -0.01 min

Lab File: BE091664.D

Acq: 18 Apr 2016 14:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 183462 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 20.9  | 18.1  | 27.1   |
| 125       | 11.9  | 11.0  | 16.4   |





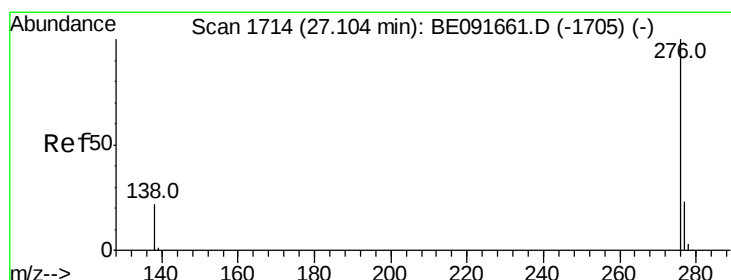
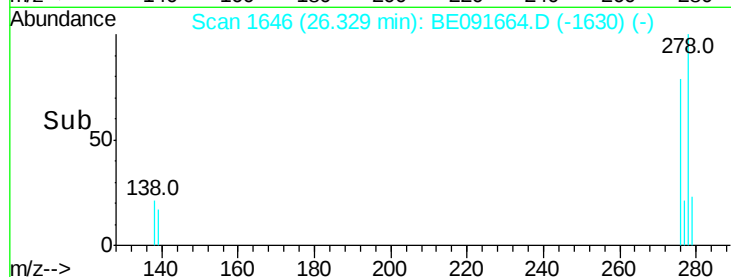
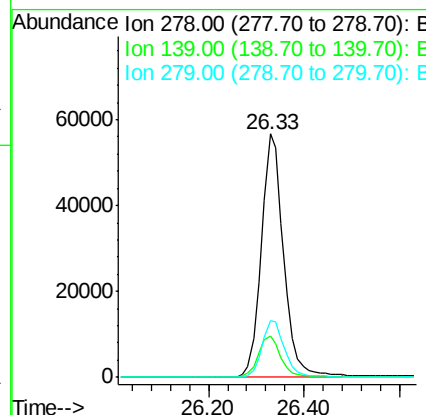
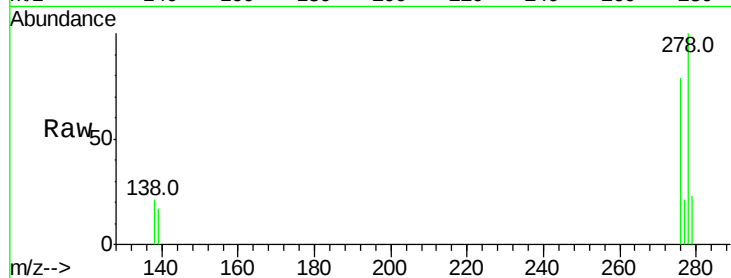
#39  
Dibenzo(a,h)anthracene  
Concen: 3.28 ng  
RT: 26.33 min Scan# 1646  
Delta R.T. -0.01 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDICC3.2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.1  | 16.0  | 24.0  |
| 279     | 23.2  | 19.4  | 29.2  |

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#40  
Benzo(g,h,i)perylene  
Concen: 3.20 ng  
RT: 27.09 min Scan# 1712  
Delta R.T. -0.01 min  
Lab File: BE091664.D  
Acq: 18 Apr 2016 14:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.3  | 18.6  | 28.0  |
| 138     | 23.2  | 20.4  | 30.6  |

