

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022816\  
 Data File : BM004454.D  
 Acq On : 28 Feb 2016 17:18  
 Operator : SJ/UM  
 Sample : SSTDICC0.5  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTDICC0.5

Manual Integrations  
 APPROVED

UMANGI  
 2/29/2016 2:48:45 PM

Quant Time: Feb 29 03:24:04 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM022816.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 29 02:56:57 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.61  | 152  | 13914    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.38 | 136  | 47326    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10      | 14.25 | 164  | 28701    | 5.00 | ng    | 0.00     |
| 15) Phenanthrene-d10      | 17.03 | 188  | 45906    | 5.00 | ng    | 0.00     |
| 19) Chrysene-d12          | 21.25 | 240  | 58015    | 5.00 | ng    | 0.00     |
| 28) Perylene-d12          | 23.47 | 264  | 47189    | 5.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |      |      |    |      |
|--------------------------|-------|-----|------|------|----|------|
| 4) 2-Fluorophenol        | 5.21  | 112 | 1464 | 0.50 | ng | 0.00 |
| 5) Phenol-d6             | 6.83  | 99  | 1517 | 0.44 | ng | 0.00 |
| 8) Nitrobenzene-d5       | 8.79  | 82  | 1234 | 0.58 | ng | 0.00 |
| 13) 2,4,6-Tribromophenol | 15.78 | 330 | 452  | 0.53 | ng | 0.00 |
| 14) 2-Fluorobiphenyl     | 12.89 | 172 | 4456 | 0.51 | ng | 0.00 |
| 22) Terphenyl-d14        | 19.68 | 244 | 3641 | 0.49 | ng | 0.00 |

## Target Compounds

|                                |       |     |        |      |    | Qvalue |
|--------------------------------|-------|-----|--------|------|----|--------|
| 2) 1,4-Dioxane                 | 3.10  | 88  | 620    | 0.42 | ng | # 88   |
| 3) n-Nitrosodimethylamine      | 3.43  | 42  | 498    | 0.41 | ng | # 95   |
| 6) bis(2-Chloroethyl)ether     | 7.04  | 93  | 1385   | 0.43 | ng | # 99   |
| 9) Nitrobenzene                | 8.81  | 77  | 1380   | 0.57 | ng | # 98   |
| 10) Hexachlorobutadiene        | 10.74 | 225 | 956    | 0.55 | ng | 99     |
| 11) 2-Methylnaphthalene        | 12.07 | 142 | 3649   | 0.51 | ng | 97     |
| 16) Hexachlorobenzene          | 16.35 | 284 | 1258   | 0.76 | ng | # 100  |
| 17) Pentachlorophenol          | 16.72 | 266 | 358    | 0.82 | ng | 97     |
| 18) Fluoranthene               | 19.10 | 202 | 8270   | 0.64 | ng | 99     |
| 20) Benzidine                  | 19.34 | 184 | 961    | 0.34 | ng | # 59   |
| 21) Pyrene                     | 19.48 | 202 | 8558   | 0.52 | ng | 100    |
| 23) Benzo(a)anthracene         | 21.22 | 228 | 8547   | 0.49 | ng | 95     |
| 24) 3,3'-Dichlorobenzidine     | 21.18 | 252 | 2615   | 0.62 | ng | # 91   |
| 25) Chrysene                   | 21.27 | 228 | 12374m | 0.77 | ng |        |
| 26) Bis(2-ethylhexyl)phthalate | 21.13 | 149 | 4985   | 0.68 | ng | # 37   |
| 27) Indeno(1,2,3-cd)pyrene     | 25.71 | 276 | 7375   | 0.44 | ng | 99     |
| 29) Benzo(b)fluoranthene       | 22.80 | 252 | 8414   | 0.56 | ng | # 96   |
| 30) Benzo(k)fluoranthene       | 22.84 | 252 | 7471   | 0.56 | ng | # 94   |
| 31) Benzo(a)pyrene             | 23.37 | 252 | 6331   | 0.49 | ng | 91     |
| 32) Dibenzo(a,h)anthracene     | 25.72 | 278 | 5744   | 0.50 | ng | 96     |
| 33) Benzo(g,h,i)perylene       | 26.40 | 276 | 6345   | 0.50 | ng | 95     |

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

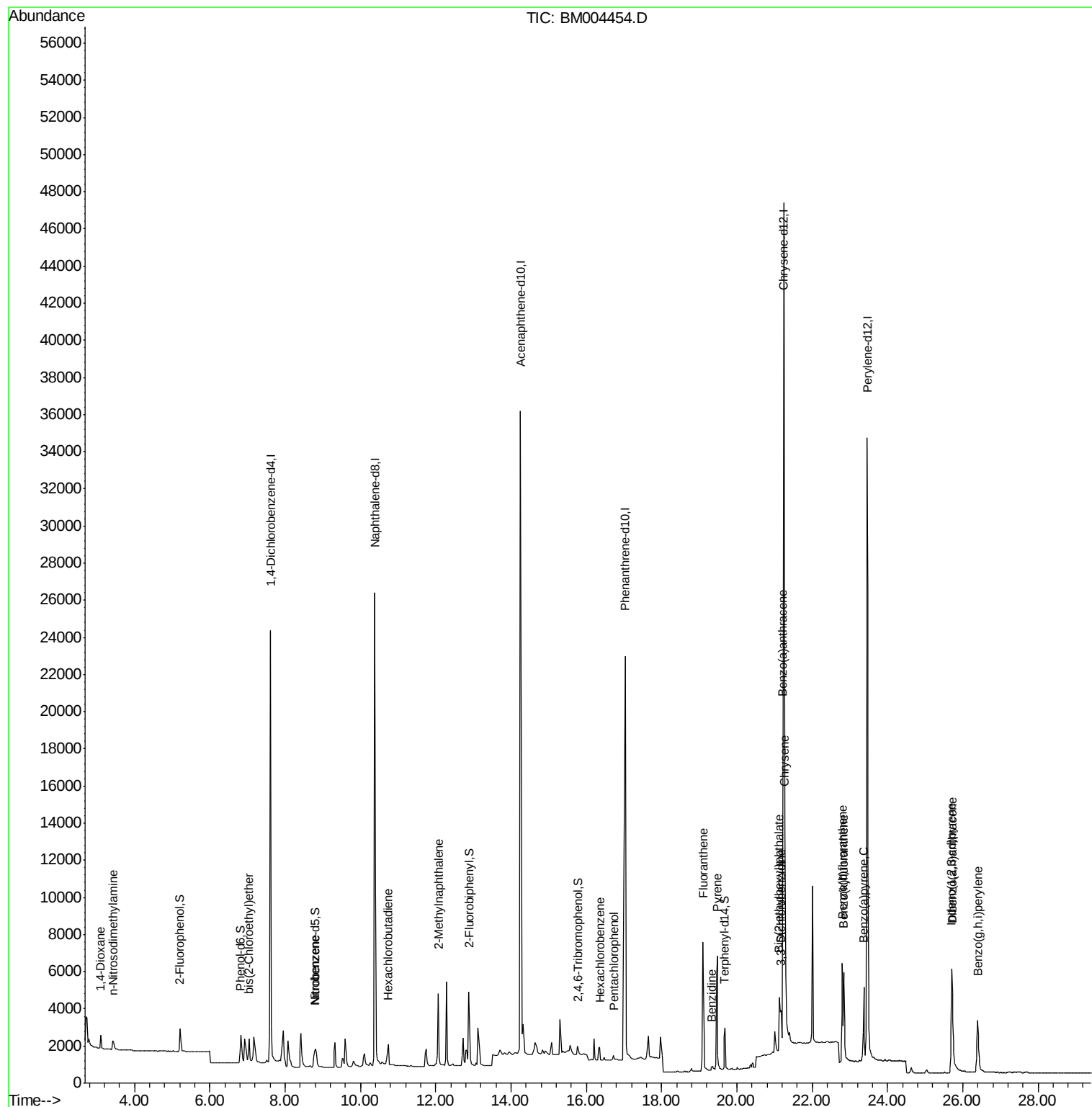
Data Path : Z:\HPCHEM1\BNA M\DATA\BM022816\  
Data File : BM004454.D  
Acq On : 28 Feb 2016 17:18  
Operator : SJ/UM  
Sample : SSTDICC0.5  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

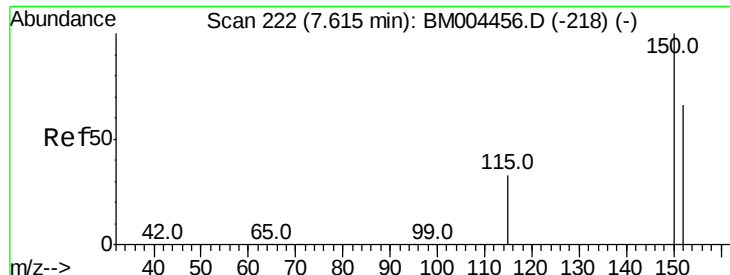
Instrument :  
BNA\_M  
ClientSampleId :  
SSTDICC0.5

Manual Integrations  
APPROVED

UMANGI  
2/29/2016 2:48:45 PM

Quant Time: Feb 29 03:24:04 2016  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-SIM-BM022816.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Feb 29 02:56:57 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.61 min Scan# 222

Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

Instrument :

BNA\_M

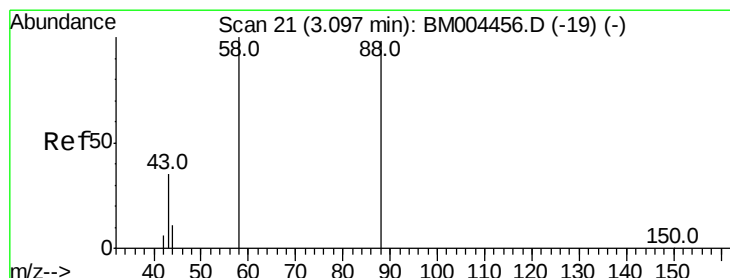
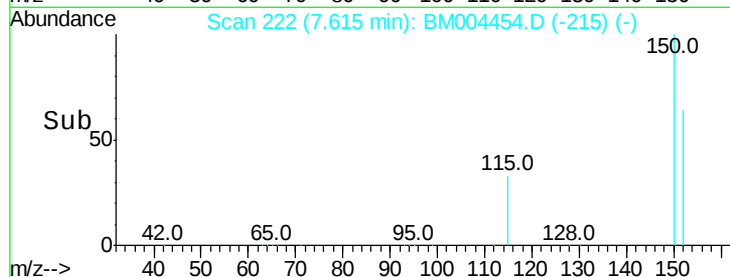
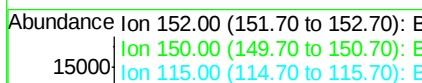
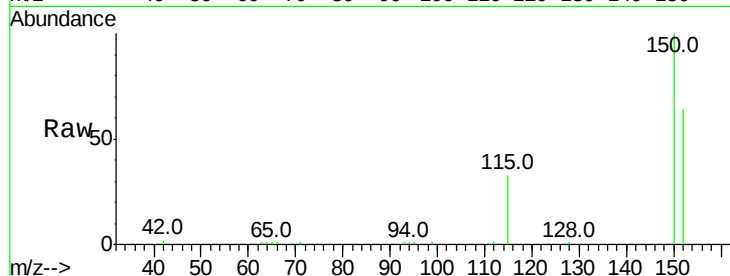
ClientSampleId :

SSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 13914 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 150      | 155.7 | 123.9 | 185.9 |
| 115      | 51.6  | 40.6  | 61.0  |

Manual Integrations  
APPROVED

UMANGI  
2/29/2016 2:48:45 PM



#2

1,4-Dioxane

Concen: 0.42 ng

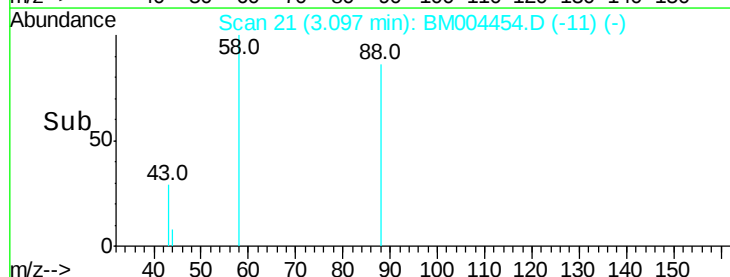
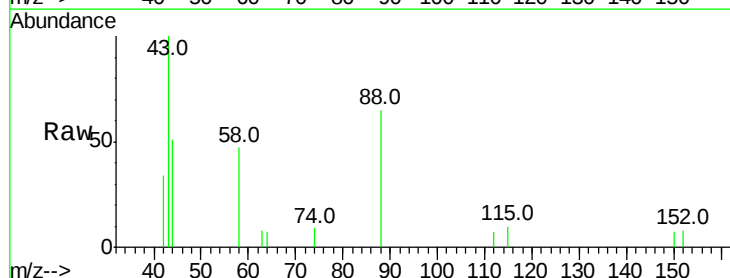
RT: 3.10 min Scan# 21

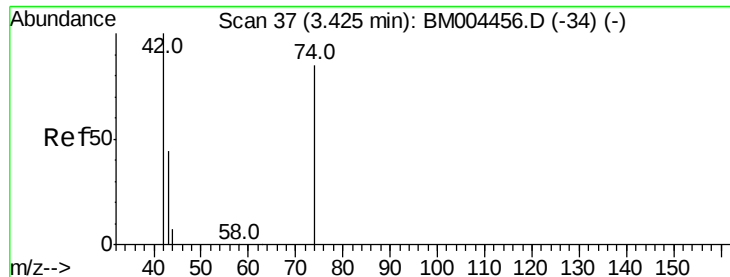
Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 620   |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 68.4  | 58.5  | 87.7  |
| 43       | 43.4  | 22.2  | 33.2# |





#3

n-Nitrosodimethylamine

Concen: 0.41 ng

RT: 3.43 min Scan# 37

Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

Instrument :

BNA\_M

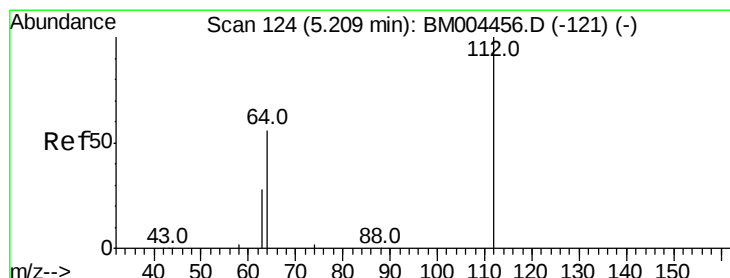
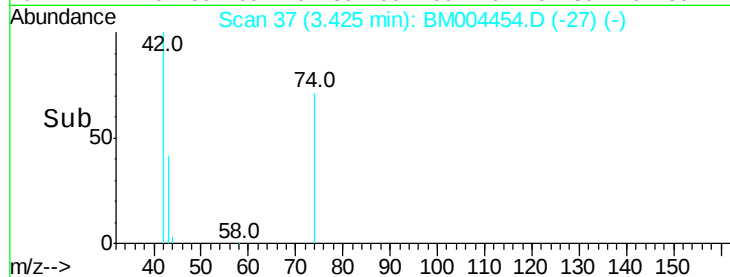
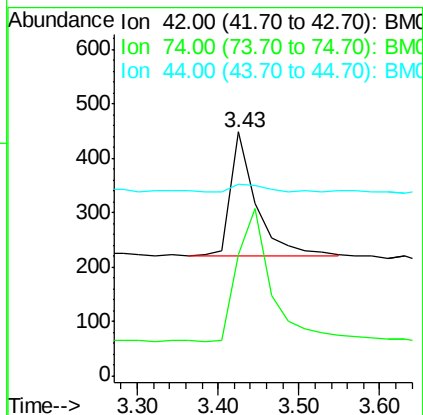
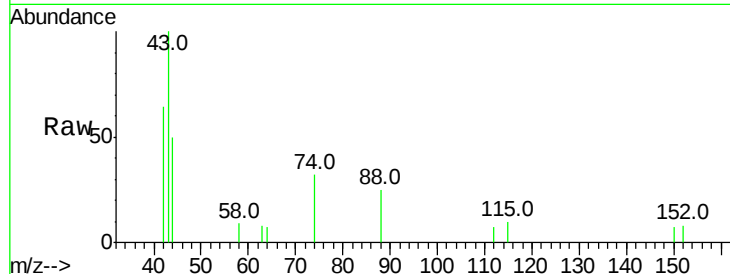
ClientSampleId :

SSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 42    | Resp: | 498   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 0.0   | 0.0   | 0.0   |
| 44       | 8.8   | 5.8   | 8.6#  |

Manual Integrations  
APPROVED

UMANGI  
2/29/2016 2:48:45 PM



#4

2-Fluorophenol

Concen: 0.50 ng

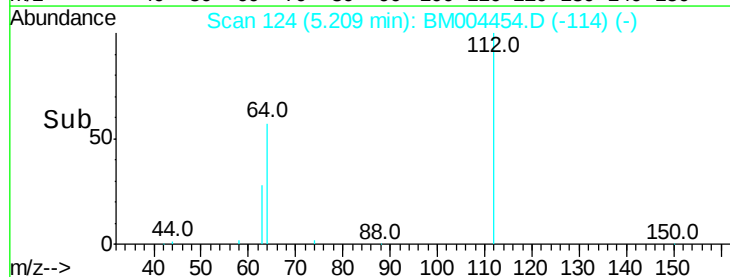
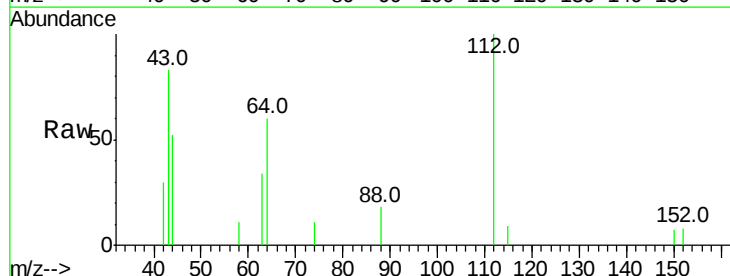
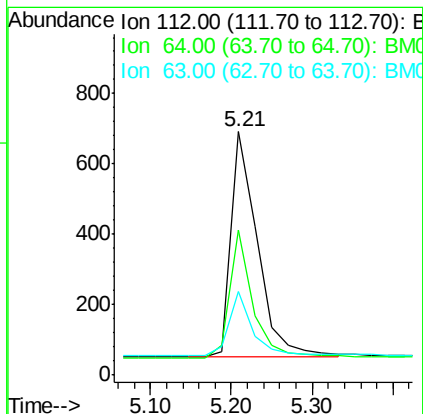
RT: 5.21 min Scan# 124

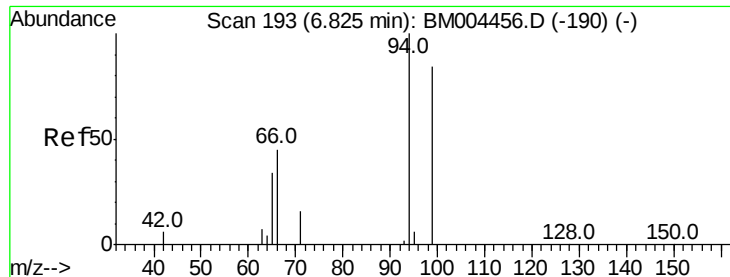
Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 1464  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 48.8  | 39.4  | 59.2  |
| 63       | 24.5  | 19.9  | 29.9  |





#5

Phenol-d6

Concen: 0.44 ng

RT: 6.83 min Scan# 193

Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

Instrument :

BNA\_M

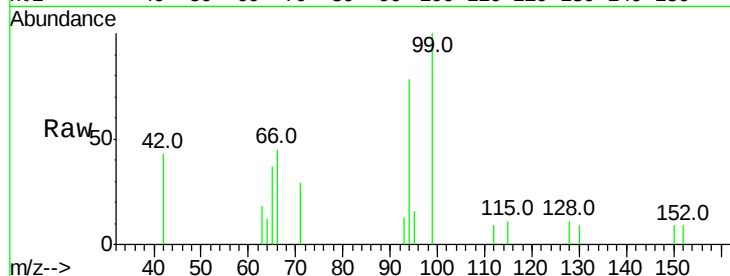
ClientSampleId :

SSTDIC0.5

| Tot Ion | 99    | Resp  | 1517  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 99      | 100   |       |       |
| 42      | 0.0   | 0.0   | 0.0   |
| 71      | 0.0   | 0.0   | 0.0   |

Manual Integrations  
APPROVED

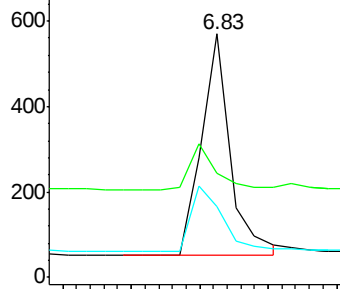
UMANGI  
2/29/2016 2:48:45 PM



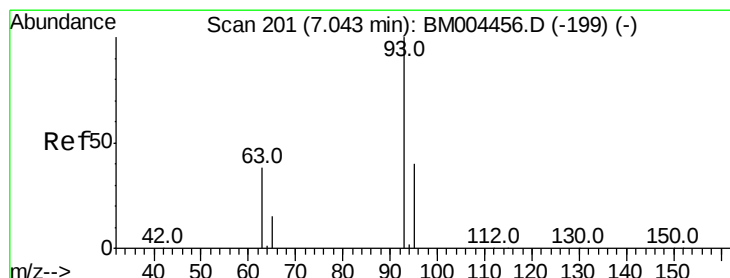
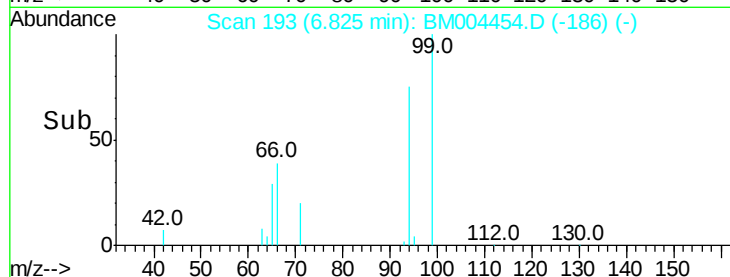
Abundance Ion 99.00 (98.70 to 99.70): BM004454.D (-190) (-)

Ion 42.00 (41.70 to 42.70): BM004454.D (-190) (-)

Ion 71.00 (70.70 to 71.70): BM004454.D (-190) (-)



Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.43 ng

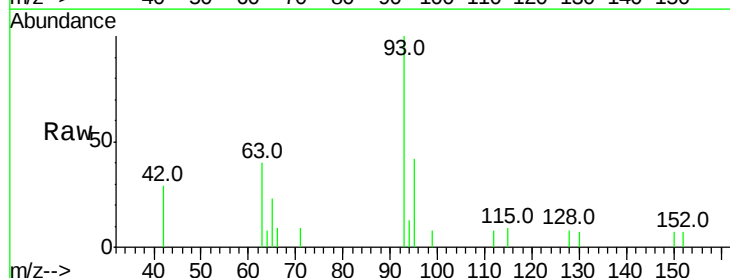
RT: 7.04 min Scan# 201

Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

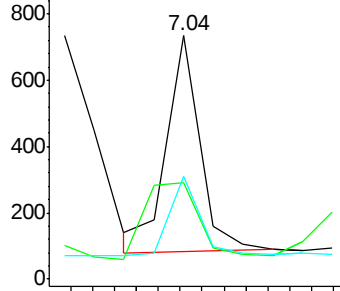
| Tgt Ion | 93    | Resp  | 1385  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 93      | 100   |       |       |
| 63      | 66.1  | 0.0   | 0.0#  |
| 95      | 34.6  | 27.1  | 40.7  |



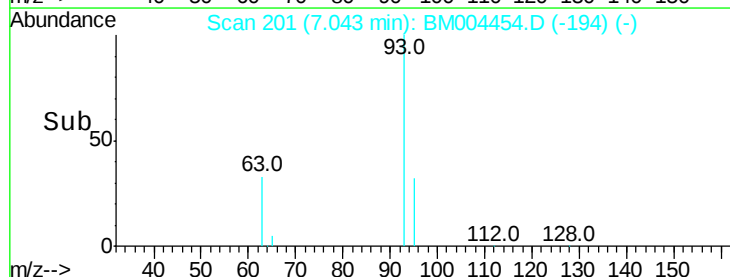
Abundance Ion 93.00 (92.70 to 93.70): BM004454.D (-199) (-)

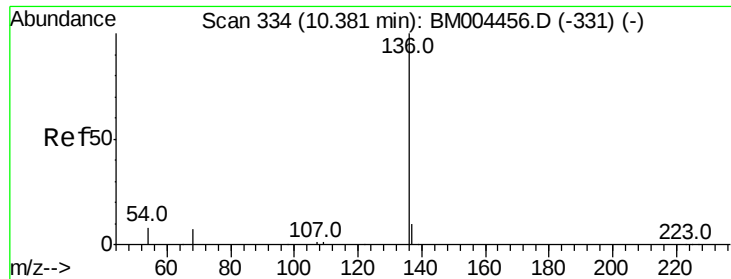
Ion 63.00 (62.70 to 63.70): BM004454.D (-199) (-)

Ion 95.00 (94.70 to 95.70): BM004454.D (-199) (-)



Time-->





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.38 min Scan# 334

Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

Instrument :

BNA\_M

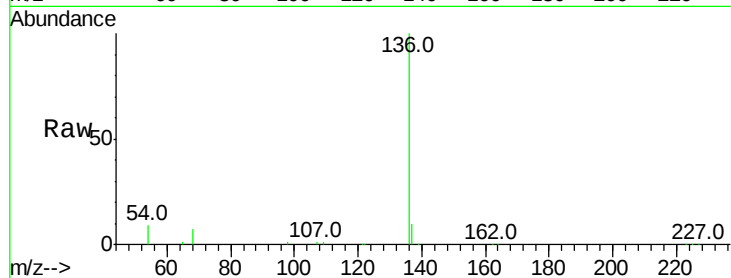
ClientSampleId :

SSTDIC0.5

| Tot Ion   | 136   | Resp  | 47326 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 10.1  | 8.0   | 12.0  |
| 54        | 9.0   | 7.0   | 10.6  |
| 68        | 7.3   | 5.8   | 8.6   |

Manual Integrations  
APPROVED

UMANGI  
2/29/2016 2:48:45 PM

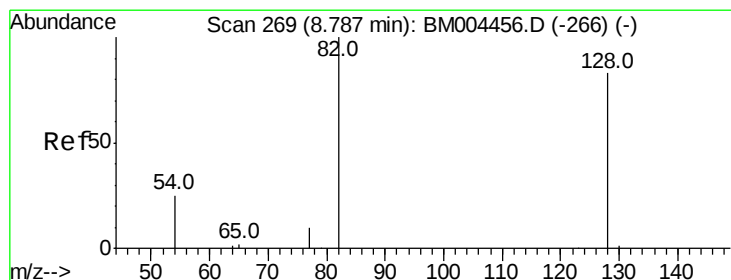
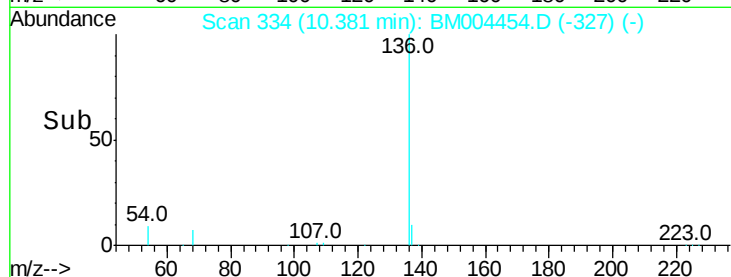
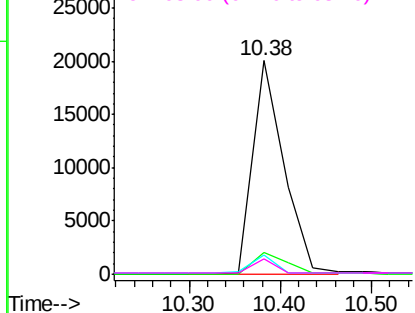


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#8

Nitrobenzene-d5

Concen: 0.58 ng

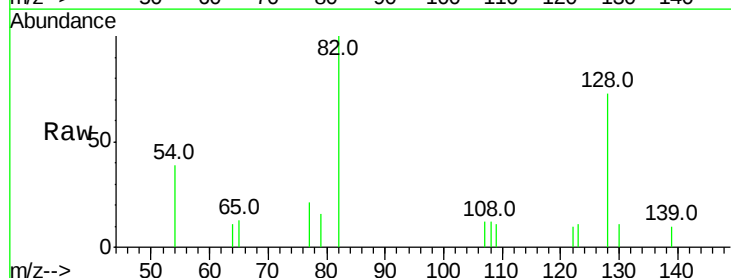
RT: 8.79 min Scan# 269

Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

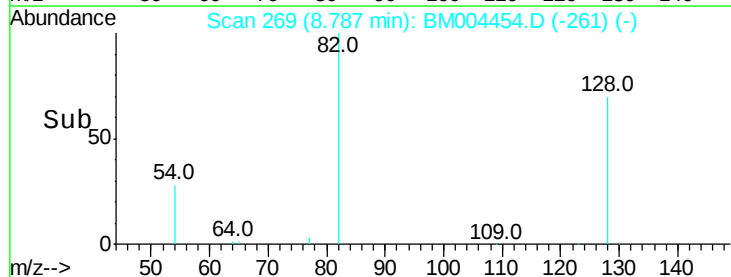
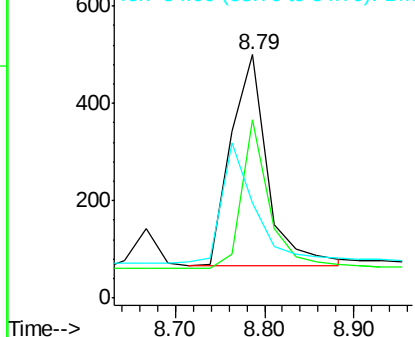
| Tgt Ion   | 82    | Resp  | 1234  |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 73.0  | 67.0  | 100.6 |
| 54        | 39.0  | 25.2  | 37.8# |

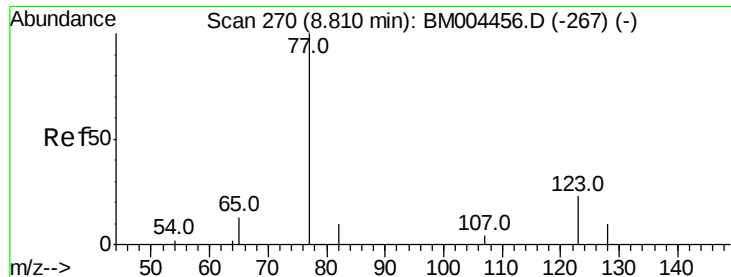


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#9

Nitrobenzene

Concen: 0.57 ng

RT: 8.81 min Scan# 270

Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

Instrument :

BNA\_M

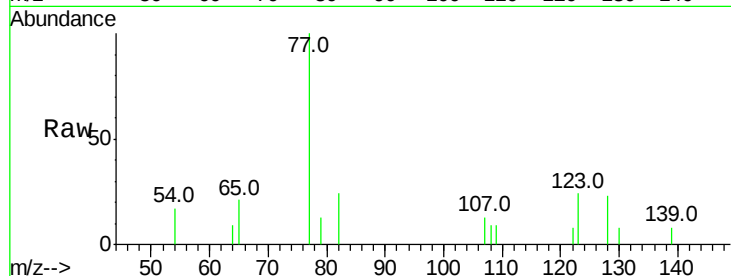
ClientSampleId :

SSTDICC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 77    | Resp: | 1380  |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 123      | 0.0   | 0.0   | 0.0   |
| 65       | 13.3  | 10.1  | 15.1  |

Manual Integrations  
APPROVED

UMANGI  
2/29/2016 2:48:45 PM

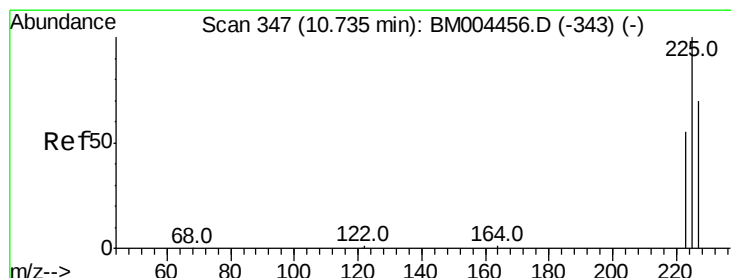
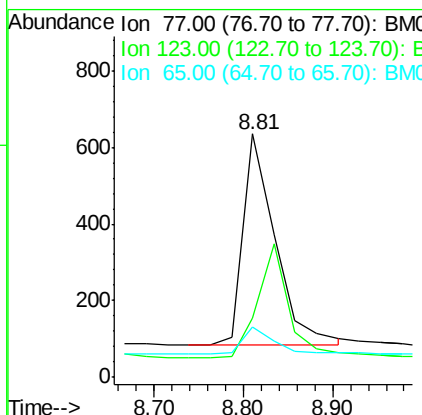
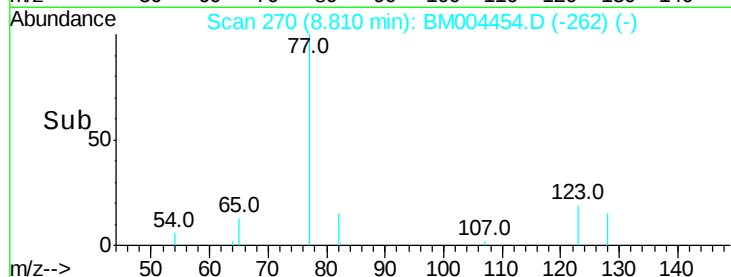


Abundance Ion 77.00 (76.70 to 77.70): BM004456.D (-267) (-)

Ion 123.00 (122.70 to 123.70): BM004456.D (-267) (-)

Ion 65.00 (64.70 to 65.70): BM004456.D (-267) (-)

Time-->



#10

Hexachlorobutadiene

Concen: 0.55 ng

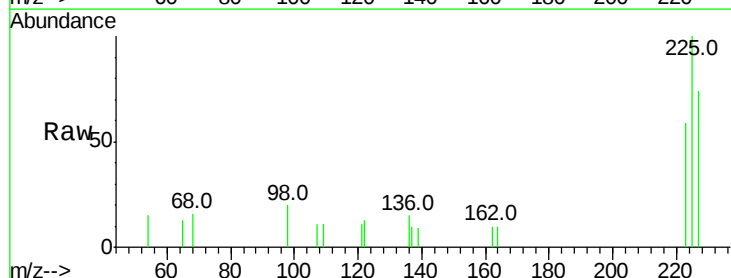
RT: 10.74 min Scan# 347

Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 956   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 59.1  | 48.4  | 72.6  |
| 227      | 66.6  | 52.8  | 79.2  |

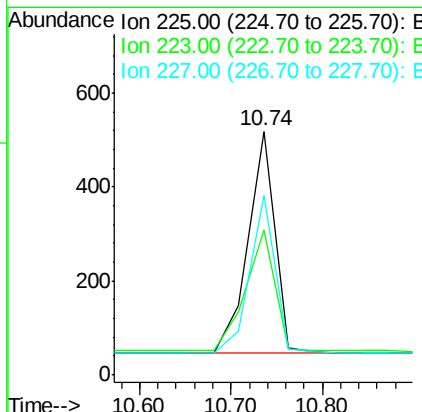
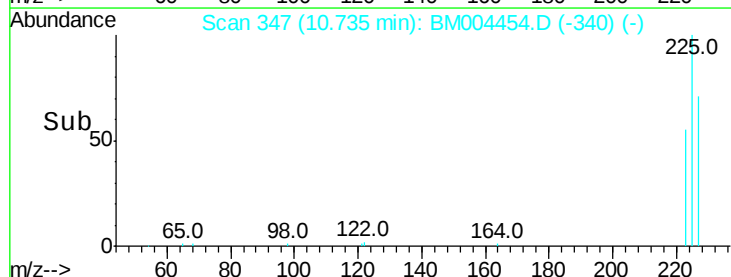


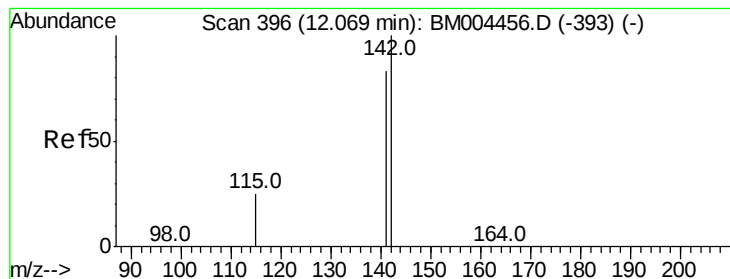
Abundance Ion 225.00 (224.70 to 225.70): BM004456.D (-343) (-)

Ion 223.00 (222.70 to 223.70): BM004456.D (-343) (-)

Ion 227.00 (226.70 to 227.70): BM004456.D (-343) (-)

Time-->





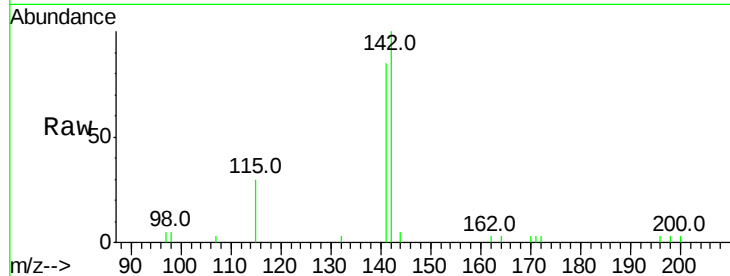
#11  
2-Methylnaphthalene  
Concen: 0.51 ng  
RT: 12.07 min Scan# 396  
Delta R.T. 0.00 min  
Lab File: BM004454.D  
Acq: 28 Feb 2016 17:18

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDICC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 85.4  | 66.4  | 99.6  |
| 115     | 30.2  | 21.6  | 32.4  |

Manual Integrations  
APPROVED

UMANGI  
2/29/2016 2:48:45 PM

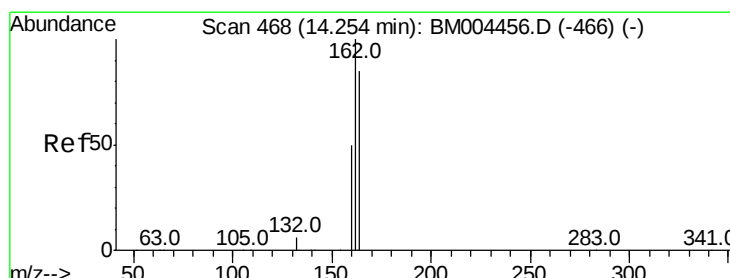
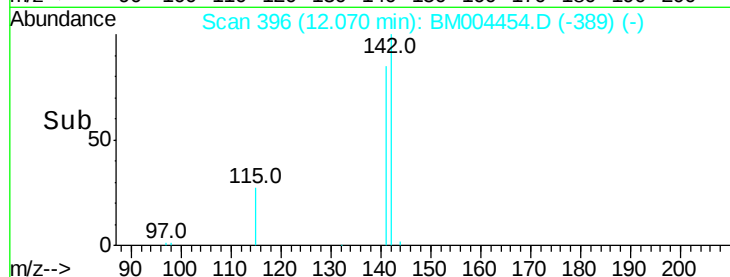
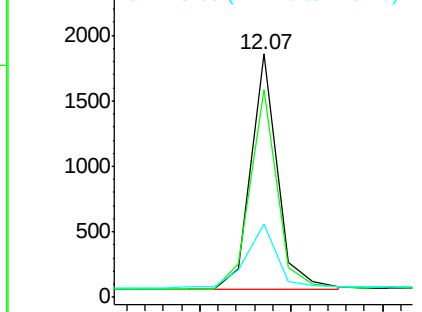


Abundance

Ion 142.00 (141.70 to 142.70): E

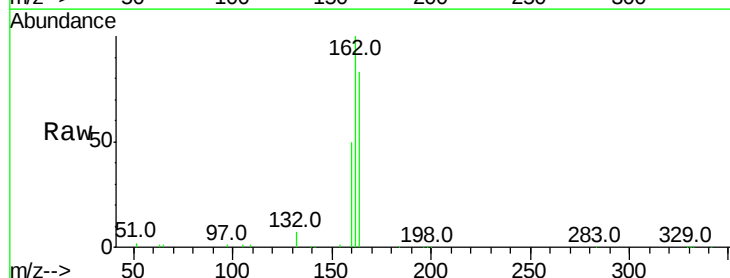
Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#12  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.25 min Scan# 468  
Delta R.T. 0.00 min  
Lab File: BM004454.D  
Acq: 28 Feb 2016 17:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 119.9 | 94.6  | 141.8 |
| 160     | 60.4  | 47.0  | 70.4  |

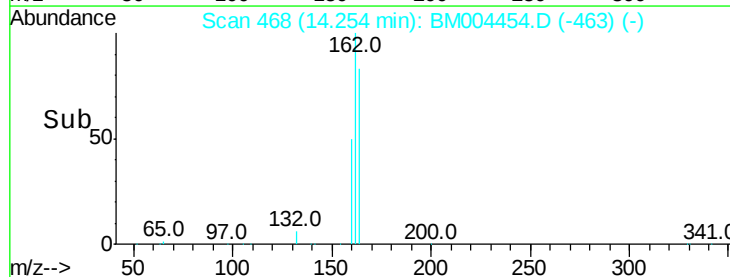
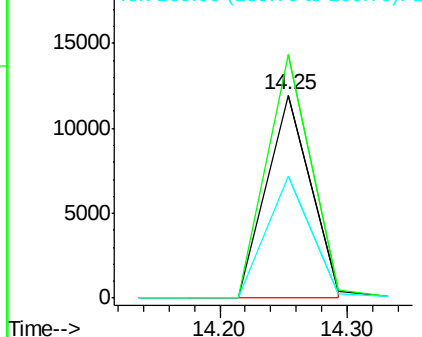


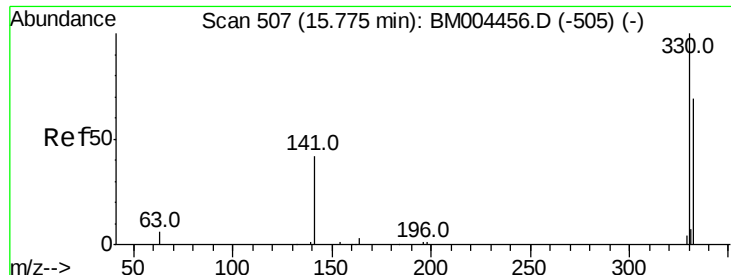
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





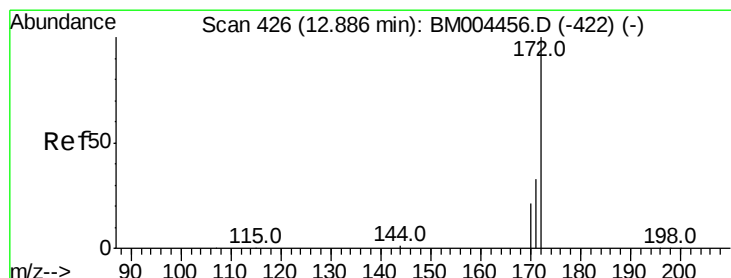
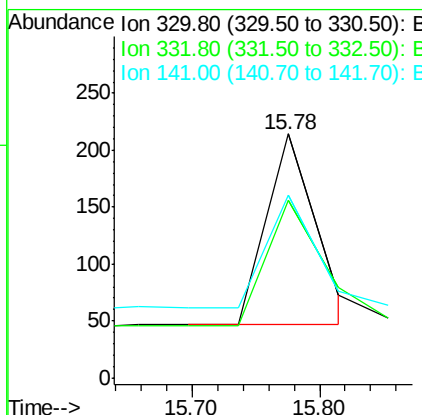
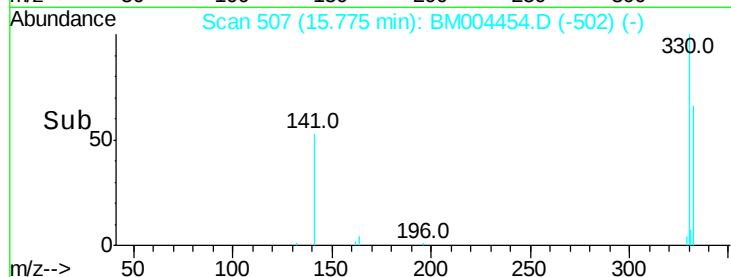
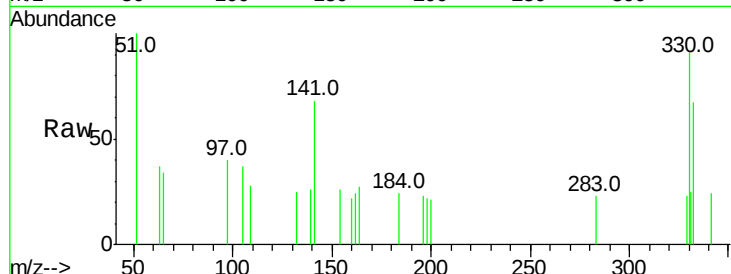
#13  
 2,4,6-Tribromophenol  
 Concen: 0.53 ng  
 RT: 15.78 min Scan# 507  
 Delta R.T. 0.00 min  
 Lab File: BM004454.D  
 Acq: 28 Feb 2016 17:18

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTDICC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 74.6  | 59.2  | 88.8  |
| 141     | 58.0  | 33.0  | 49.4  |

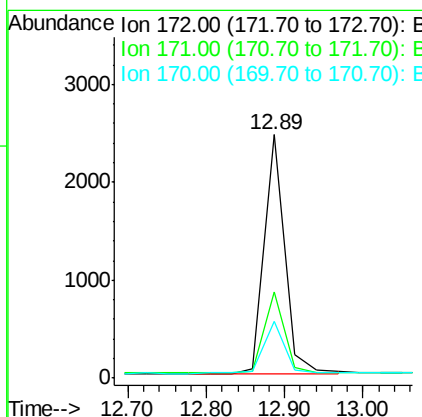
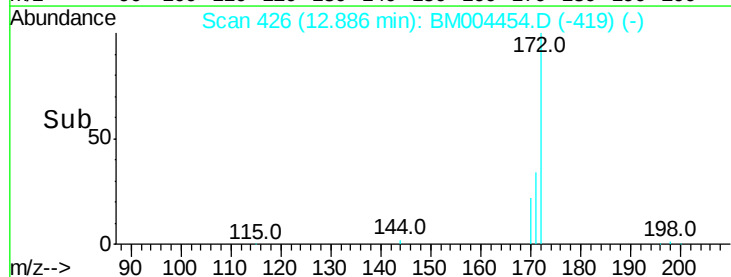
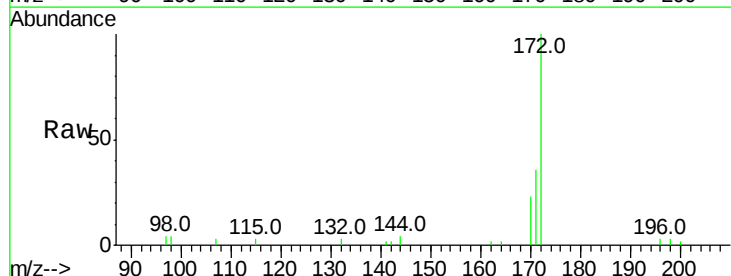
Manual Integrations  
 APPROVED

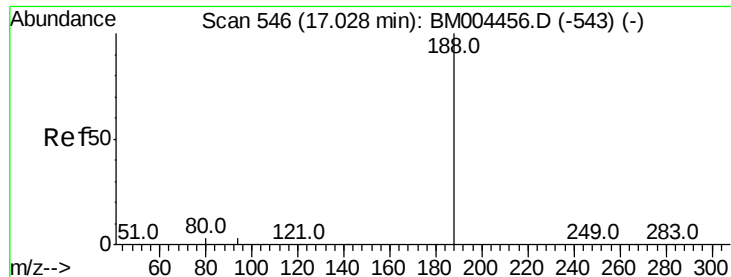
UMANGI  
 2/29/2016 2:48:45 PM



#14  
 2-Fluorobiphenyl  
 Concen: 0.51 ng  
 RT: 12.89 min Scan# 426  
 Delta R.T. 0.00 min  
 Lab File: BM004454.D  
 Acq: 28 Feb 2016 17:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 27.2  | 40.8  |
| 170     | 23.4  | 17.4  | 26.0  |





#15

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.03 min Scan# 546

Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

Instrument :

BNA\_M

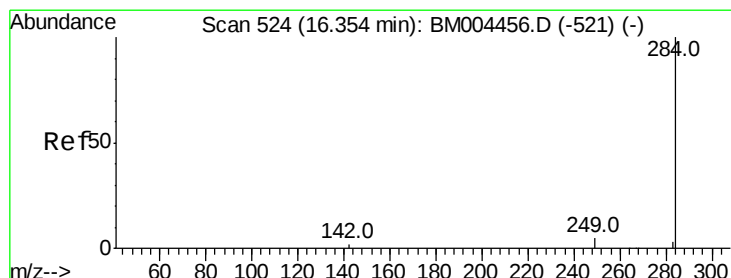
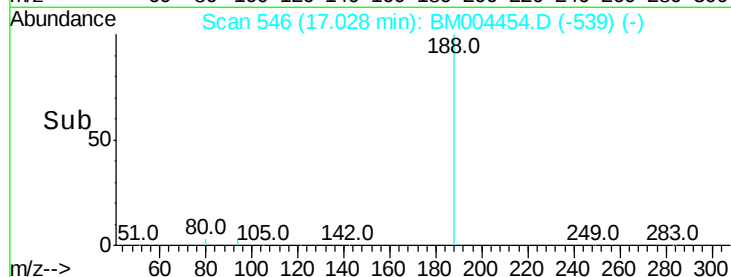
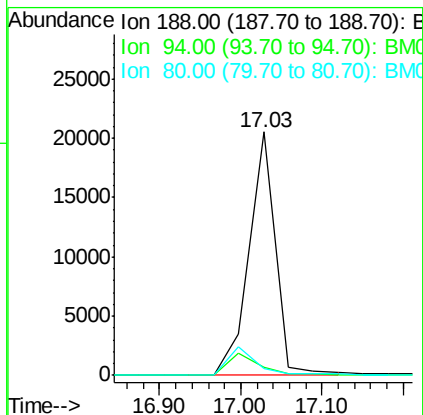
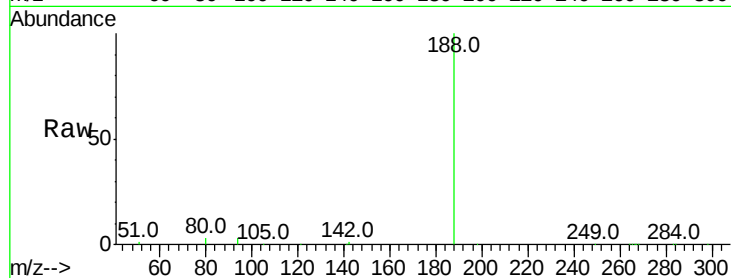
ClientSampleId :

SSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 45906 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 3.5   | 2.7   | 4.1   |
| 80        | 3.0   | 2.2   | 3.4   |

Manual Integrations  
APPROVED

UMANGI  
2/29/2016 2:48:45 PM



#16

Hexachlorobenzene

Concen: 0.76 ng

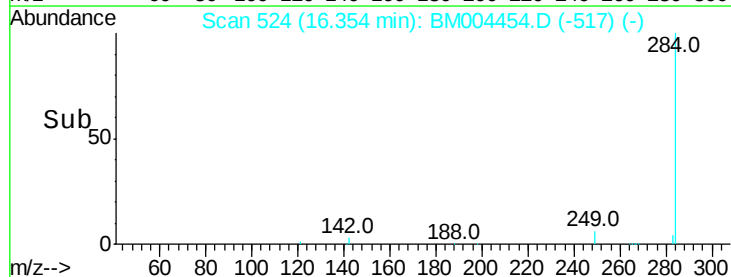
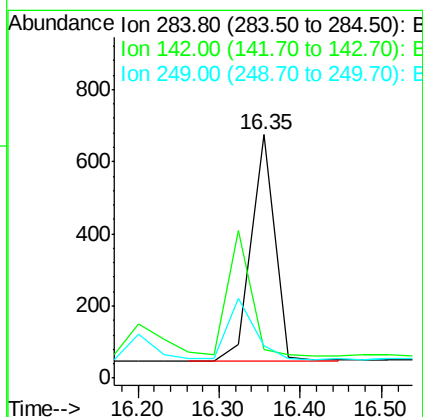
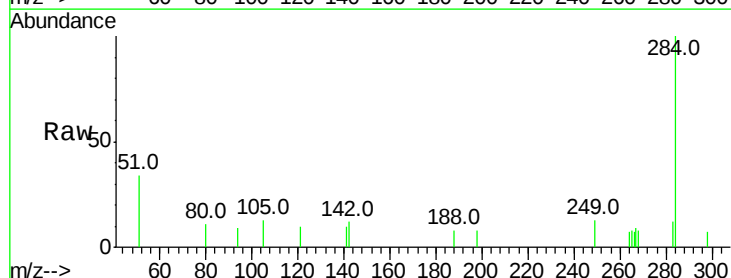
RT: 16.35 min Scan# 524

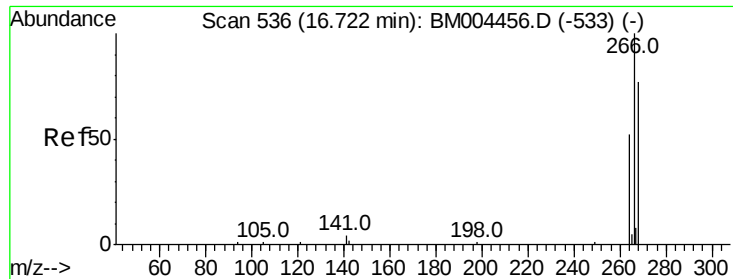
Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 284   | Resp: | 1258 |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 0.0   | 0.0   | 0.0  |
| 249       | 0.0   | 0.0   | 0.0  |





#17

Pentachlorophenol

Concen: 0.82 ng

RT: 16.72 min Scan# 536

Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

Instrument :

BNA\_M

ClientSampleId :

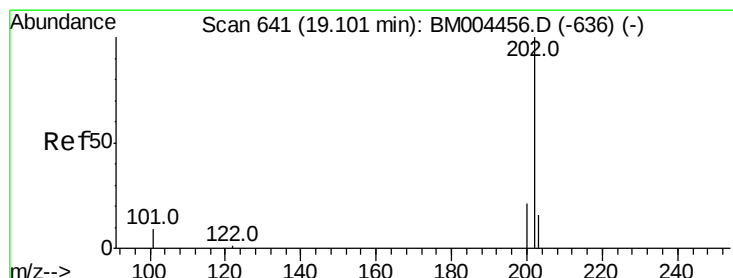
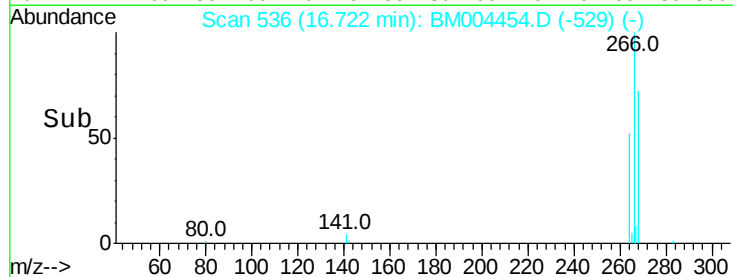
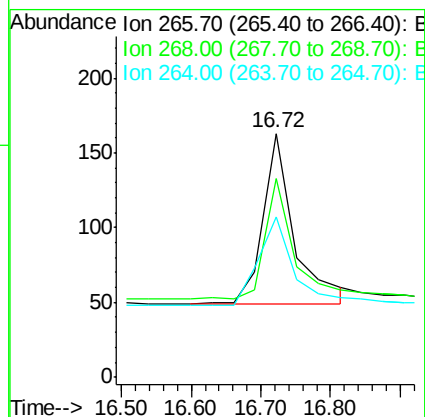
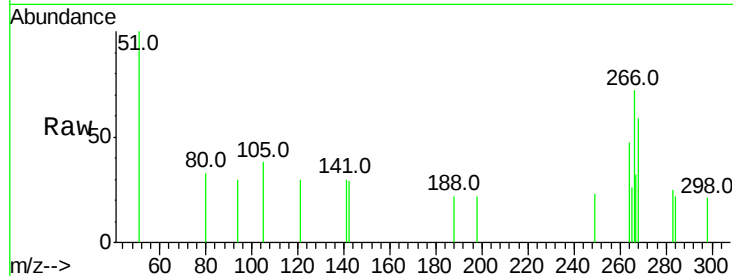
SSTDICC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 266   | Resp: | 358   |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 268       | 81.6  | 66.8  | 100.2 |
| 264       | 65.6  | 49.4  | 74.0  |

Manual Integrations  
APPROVED

UMANGI

2/29/2016 2:48:45 PM



#18

Fluoranthene

Concen: 0.64 ng

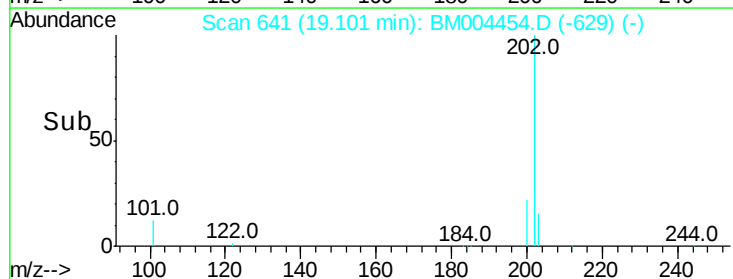
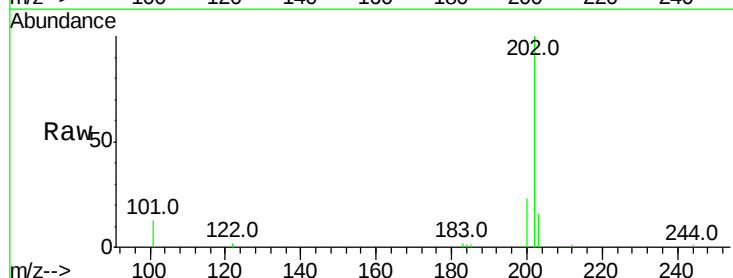
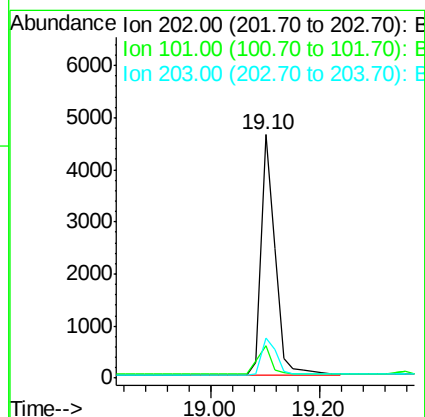
RT: 19.10 min Scan# 641

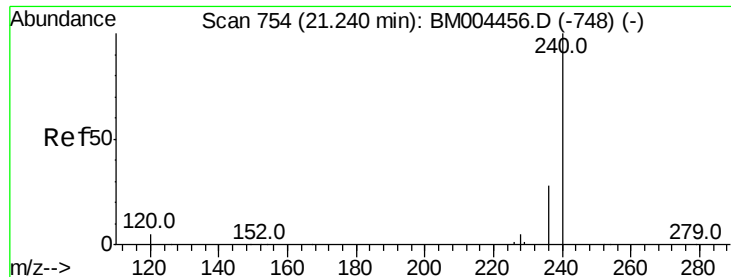
Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 8270 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 11.6  | 9.4   | 14.0 |
| 203       | 17.1  | 13.9  | 20.9 |





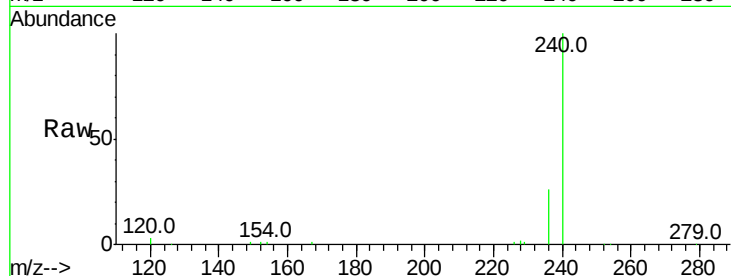
#19  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.25 min Scan# 754  
Delta R.T. 0.01 min  
Lab File: BM004454.D  
Acq: 28 Feb 2016 17:18

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDICC0.5

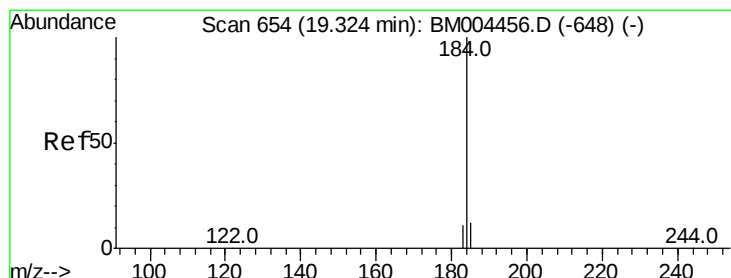
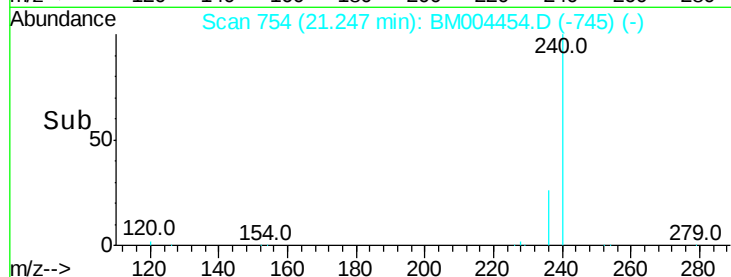
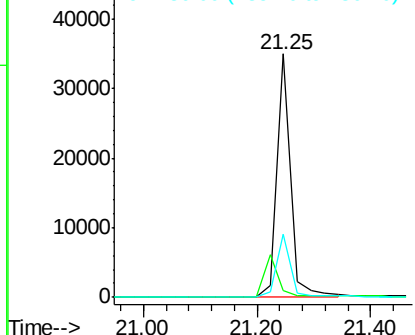
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 2.6   | 4.0   | 6.0#  |
| 236     | 25.7  | 22.7  | 34.1  |

Manual Integrations  
APPROVED

UMANGI  
2/29/2016 2:48:45 PM

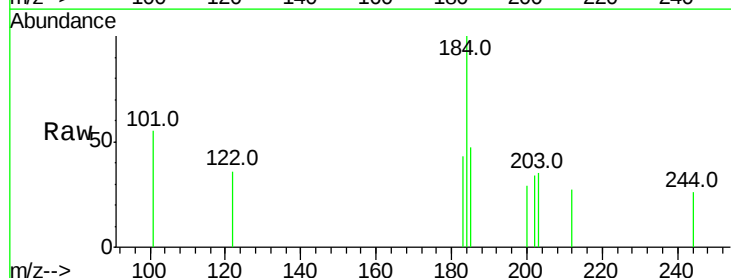


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

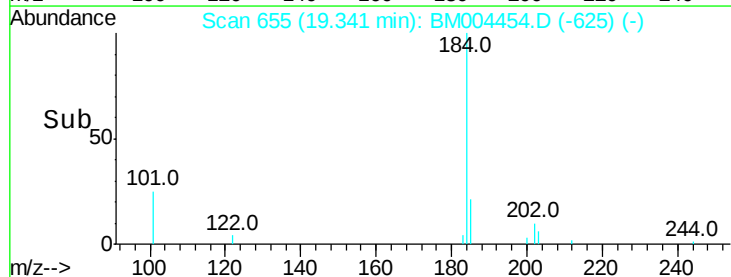
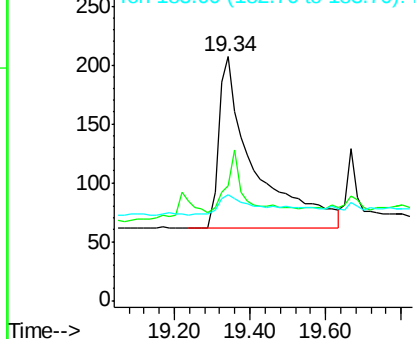


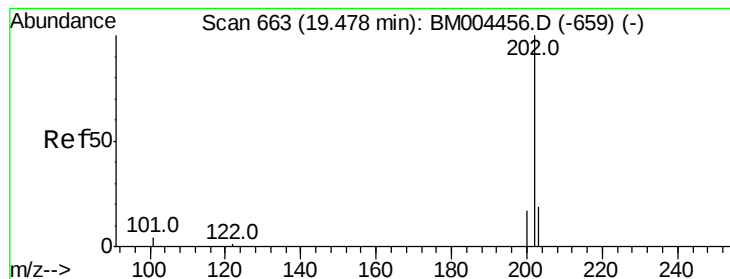
#20  
Benzidine  
Concen: 0.34 ng  
RT: 19.34 min Scan# 655  
Delta R.T. 0.02 min  
Lab File: BM004454.D  
Acq: 28 Feb 2016 17:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 46.9  | 20.8  | 31.2# |
| 183     | 43.5  | 18.5  | 27.7# |



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E





#21

Pvrene

Concen: 0.52 ng

RT: 19.48 min Scan# 663

Delta R.T. 0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

Instrument :

BNA\_M

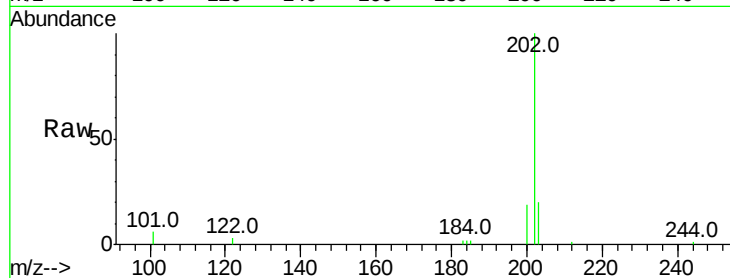
ClientSampleId :

SSTDICC0.5

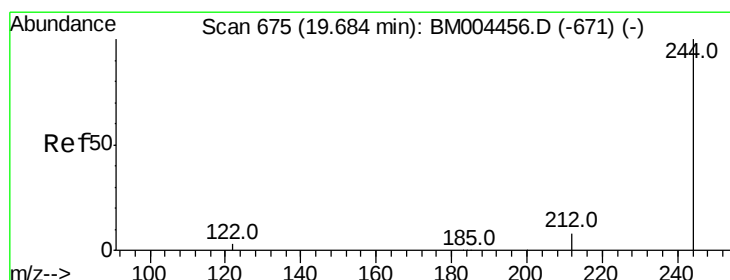
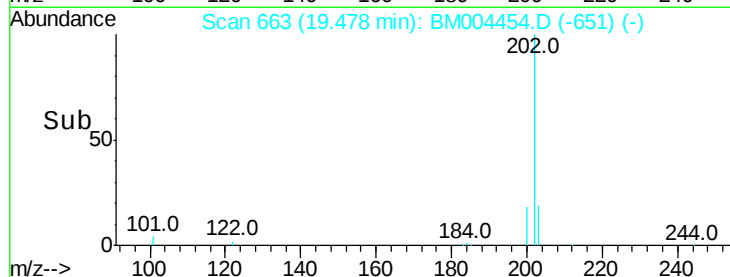
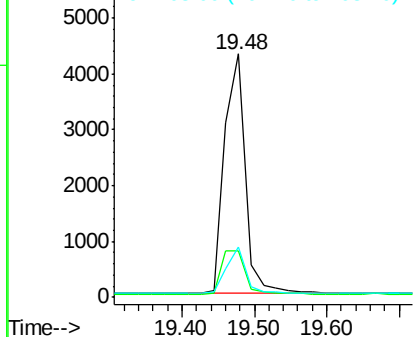
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 202   | Resp: | 8558 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 20.9  | 16.6  | 24.8 |
| 203       | 17.6  | 13.9  | 20.9 |

Manual Integrations  
APPROVED

UMANGI  
2/29/2016 2:48:45 PM



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E



#22

Terphenyl-d14

Concen: 0.49 ng

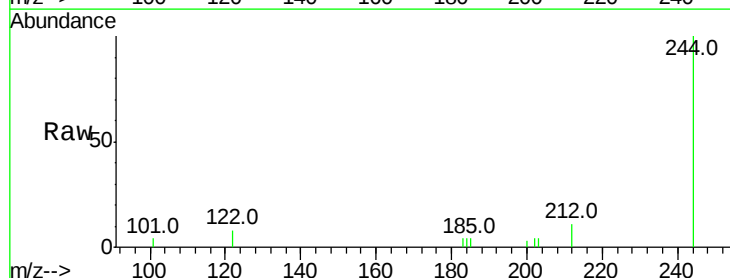
RT: 19.68 min Scan# 675

Delta R.T. 0.00 min

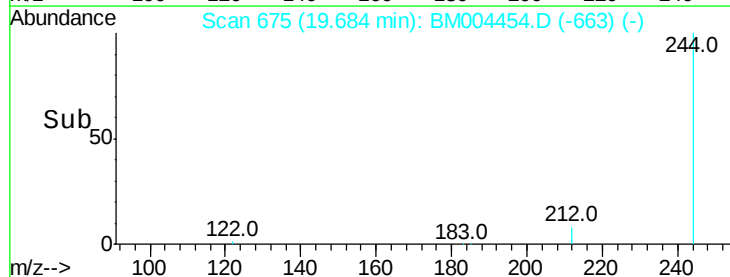
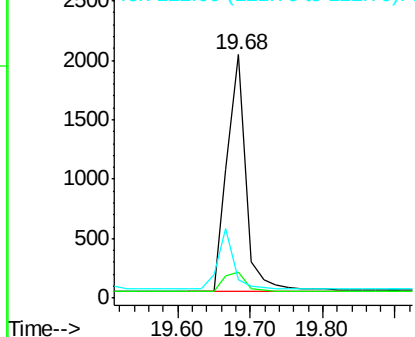
Lab File: BM004454.D

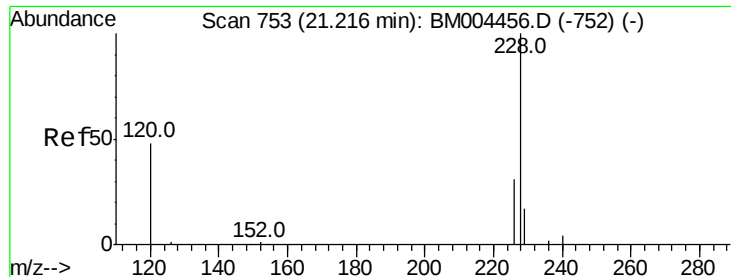
Acq: 28 Feb 2016 17:18

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 244   | Resp: | 3641 |
| Ion Ratio | Lower | Upper |      |
| 244       | 100   |       |      |
| 212       | 10.6  | 7.4   | 11.2 |
| 122       | 7.5   | 4.2   | 6.2# |



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E





#23

Benzo(a)anthracene

Concen: 0.49 ng

RT: 21.22 min Scan# 753

Delta R.T. 0.01 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

Instrument :

BNA\_M

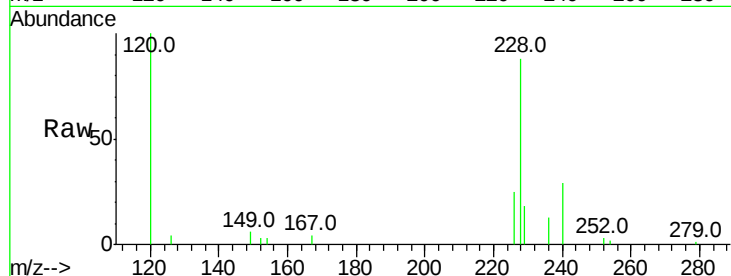
ClientSampleId :

SSTDIC0.5

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 228   | Resp: | 8547 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 28.8  | 25.1  | 37.7 |
| 229       | 19.9  | 14.2  | 21.4 |

Manual Integrations  
APPROVED

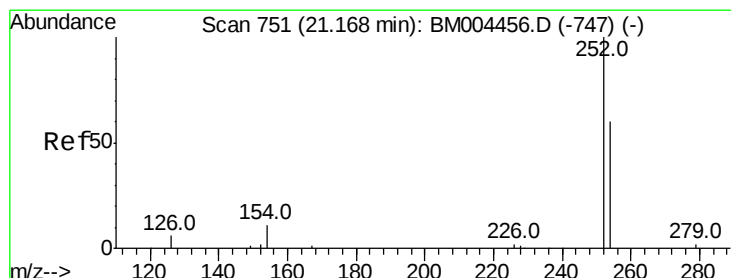
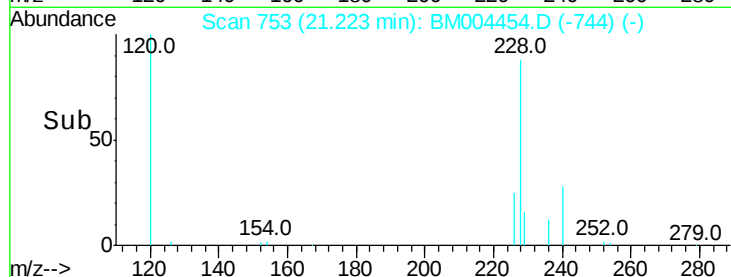
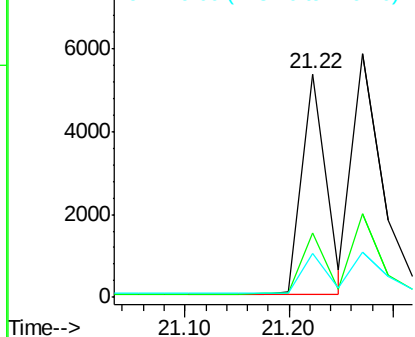
UMANGI  
2/29/2016 2:48:45 PM



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

3,3'-Dichlorobenzidine

Concen: 0.62 ng

RT: 21.18 min Scan# 751

Delta R.T. 0.01 min

Lab File: BM004454.D

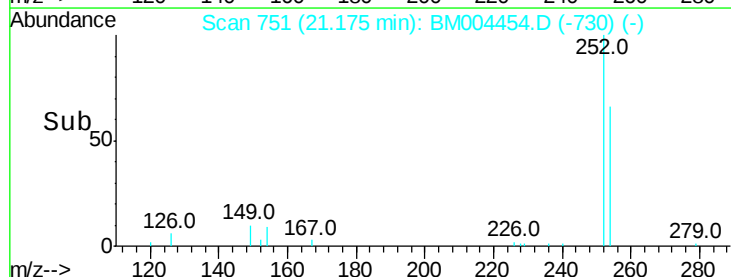
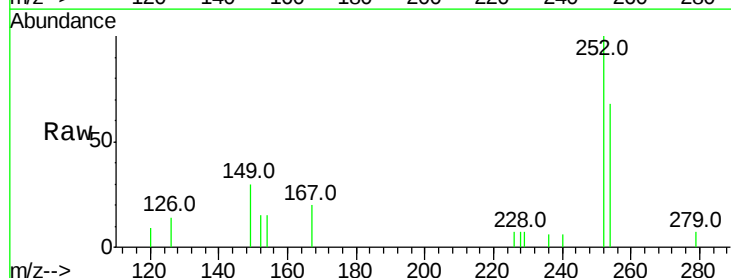
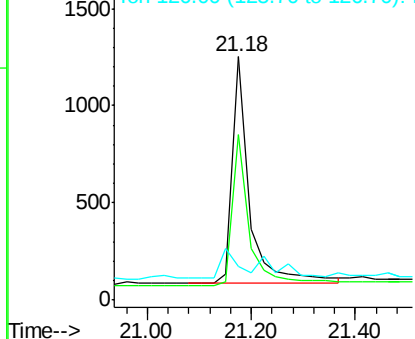
Acq: 28 Feb 2016 17:18

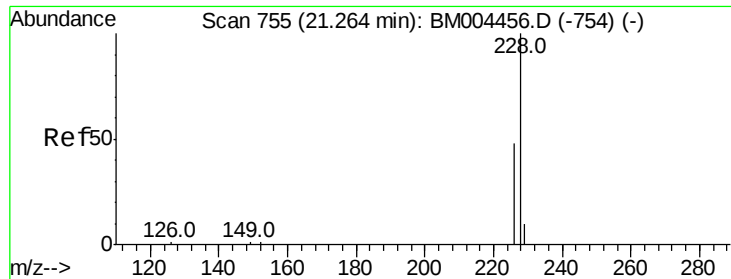
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 2615  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 254       | 67.8  | 48.7  | 73.1  |
| 126       | 13.7  | 8.2   | 12.2# |

Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





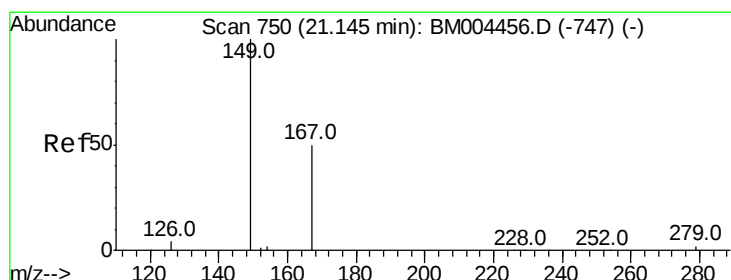
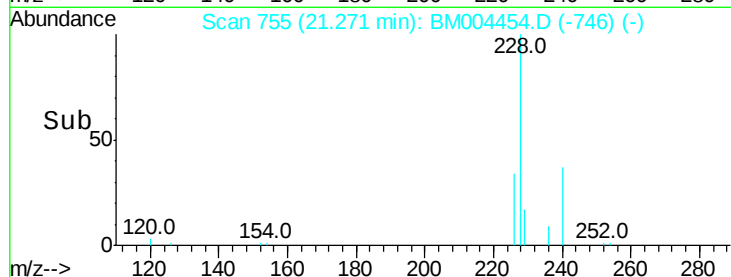
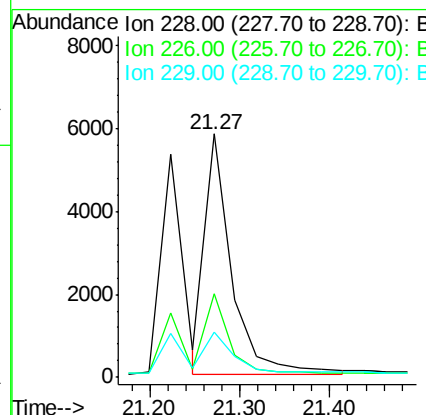
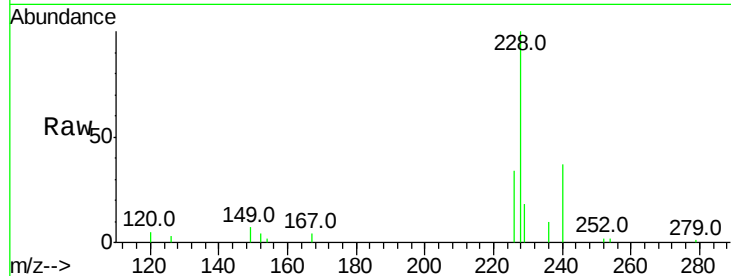
#25  
 Chrysene  
 Concen: 0.77 ng m  
 RT: 21.27 min Scan# 755  
 Delta R.T. 0.01 min  
 Lab File: BM004454.D  
 Acq: 28 Feb 2016 17:18

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTDIC0.5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 12374 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 34.4  | 31.0  | 46.6  |
| 229       | 18.5  | 13.4  | 20.2  |

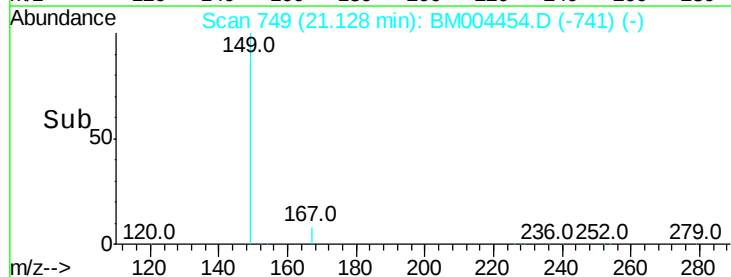
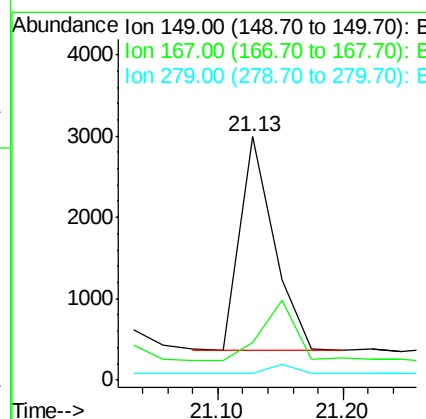
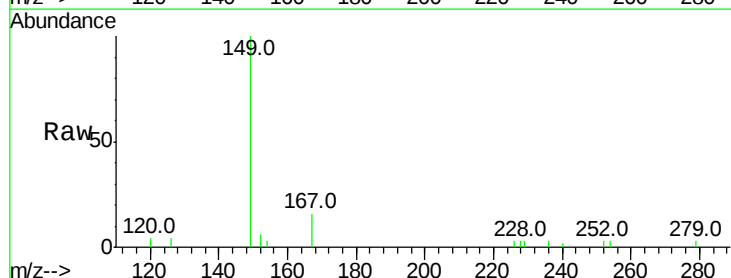
Manual Integrations  
 APPROVED

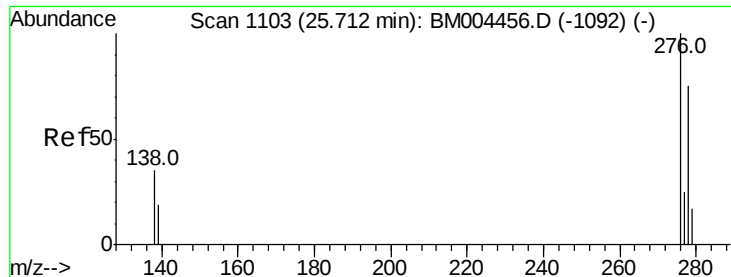
UMANGI  
 2/29/2016 2:48:45 PM



#26  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.68 ng  
 RT: 21.13 min Scan# 749  
 Delta R.T. -0.02 min  
 Lab File: BM004454.D  
 Acq: 28 Feb 2016 17:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 4985  |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 0.0   | 33.1  | 49.7# |
| 279       | 0.0   | 2.0   | 3.0#  |





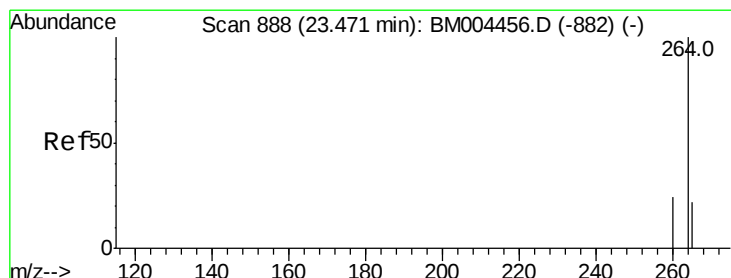
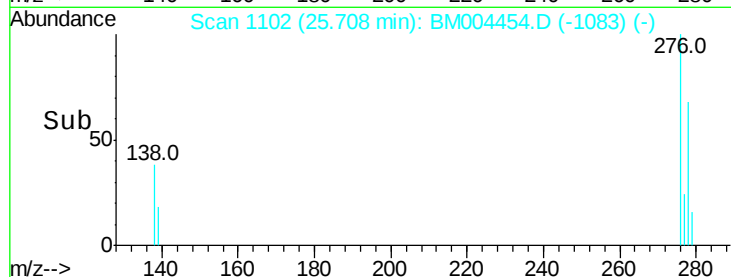
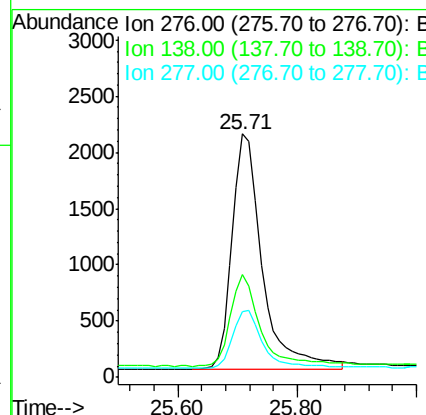
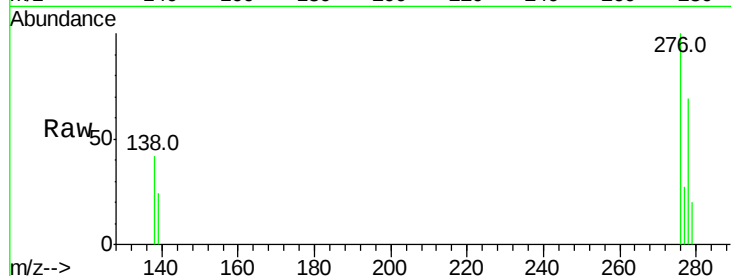
#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.44 ng  
RT: 25.71 min Scan# 1102  
Delta R.T. -0.00 min  
Lab File: BM004454.D  
Acq: 28 Feb 2016 17:18

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDICC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 38.1  | 30.0  | 45.0  |
| 277     | 24.7  | 19.8  | 29.8  |

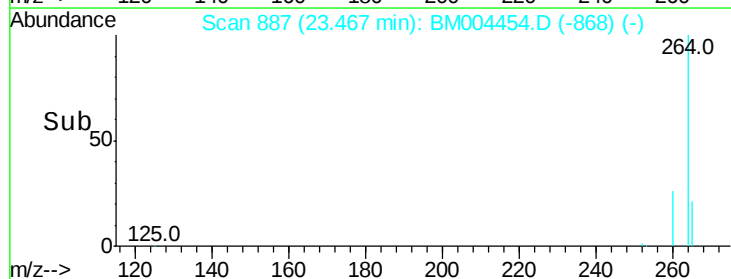
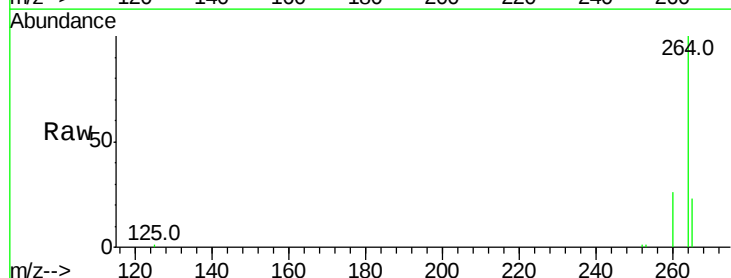
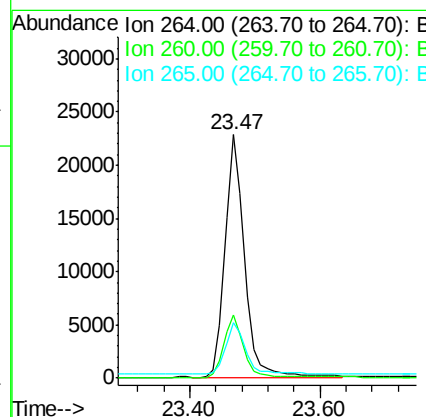
Manual Integrations  
APPROVED

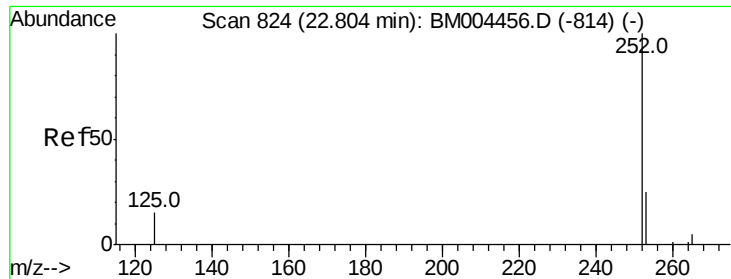
UMANGI  
2/29/2016 2:48:45 PM



#28  
Perylene-d12  
Concen: 5.00 ng  
RT: 23.47 min Scan# 887  
Delta R.T. -0.00 min  
Lab File: BM004454.D  
Acq: 28 Feb 2016 17:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.8  | 19.4  | 29.2  |
| 265     | 22.5  | 18.9  | 28.3  |





#29

Benzo(b)fluoranthene

Concen: 0.56 ng

RT: 22.80 min Scan# 823

Delta R.T. -0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

Instrument :

BNA\_M

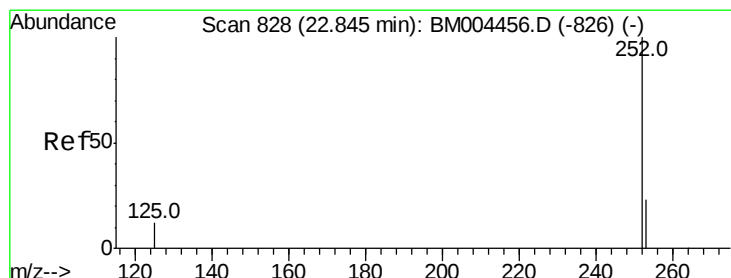
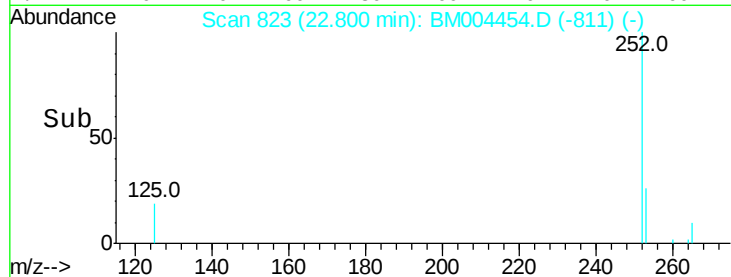
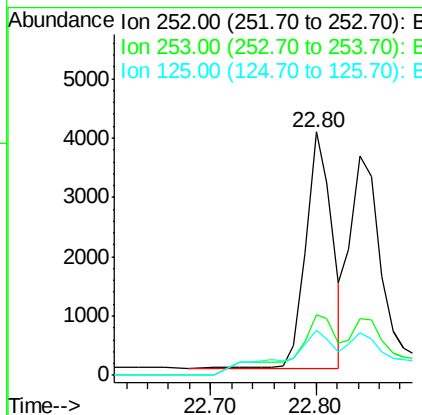
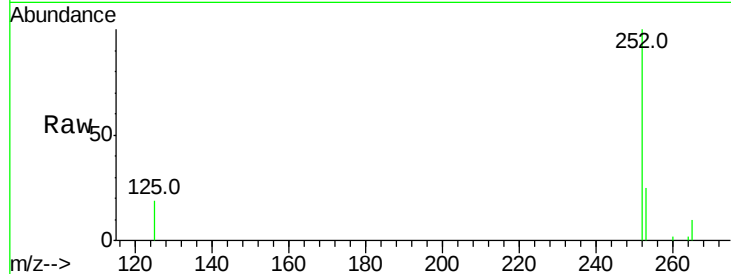
ClientSampleId :

SSTDICC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.0  | 19.8  | 29.6  |
| 125     | 18.7  | 12.2  | 18.2  |

Manual Integrations  
APPROVED

UMANGI  
2/29/2016 2:48:45 PM



#30

Benzo(k)fluoranthene

Concen: 0.56 ng

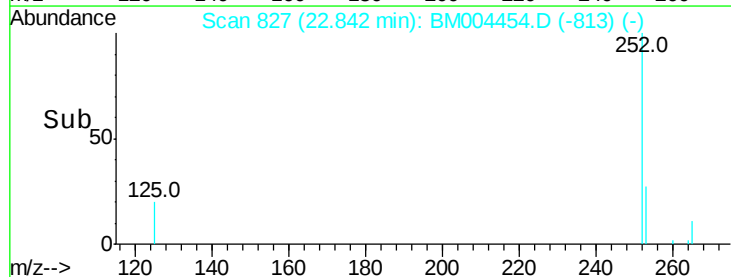
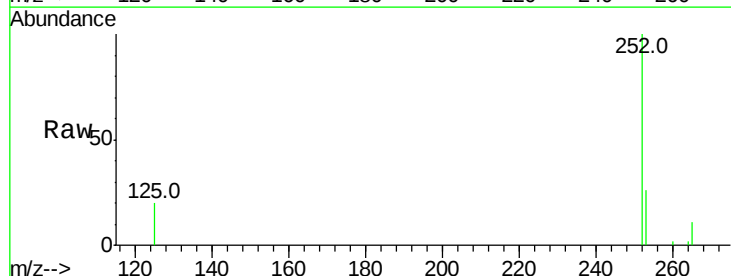
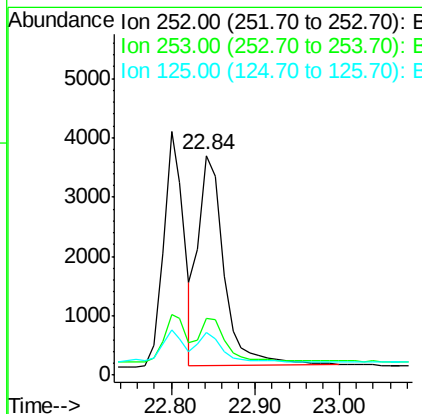
RT: 22.84 min Scan# 827

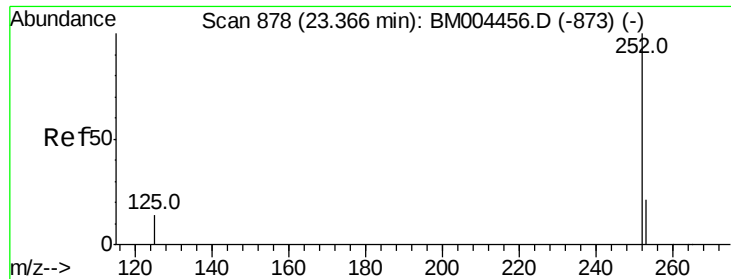
Delta R.T. -0.00 min

Lab File: BM004454.D

Acq: 28 Feb 2016 17:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 19.3  | 28.9  |
| 125     | 19.7  | 12.4  | 18.6  |





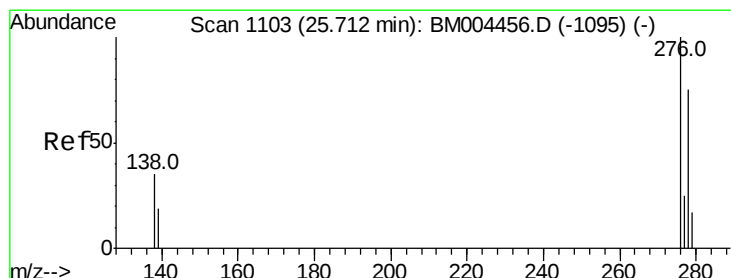
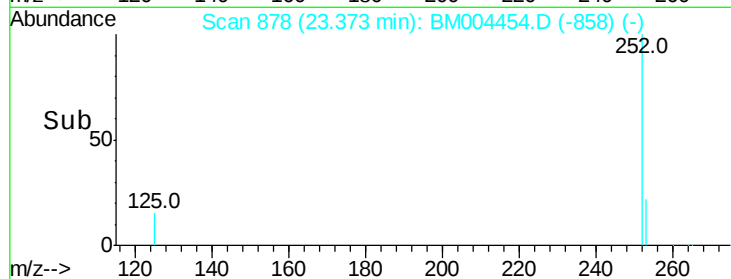
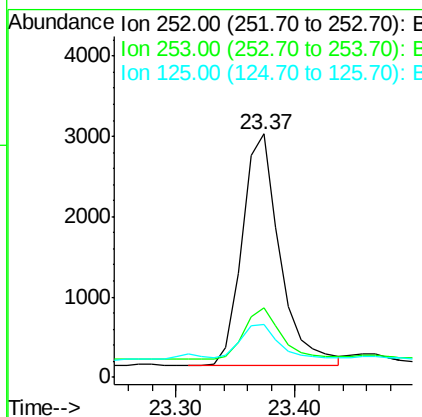
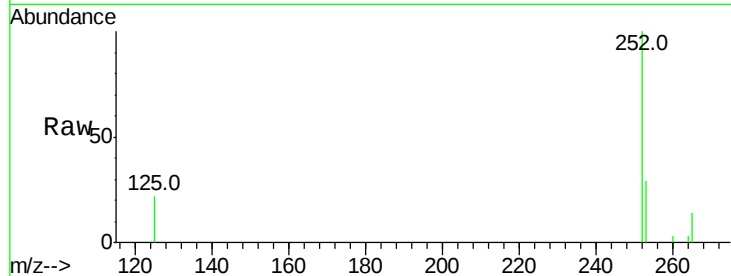
#31  
Benzo(a)pyrene  
Concen: 0.49 ng  
RT: 23.37 min Scan# 878  
Delta R.T. 0.01 min  
Lab File: BM004454.D  
Acq: 28 Feb 2016 17:18

Instrument :  
BNA\_M  
ClientSampleId :  
SSTDIC0.5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.6  | 19.3  | 28.9  |
| 125     | 21.5  | 14.4  | 21.6  |

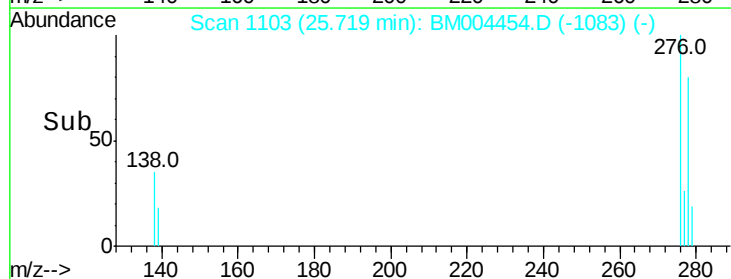
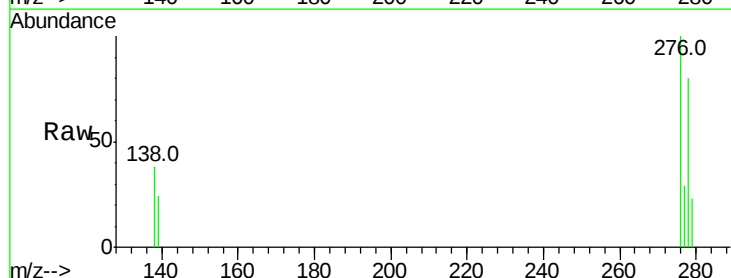
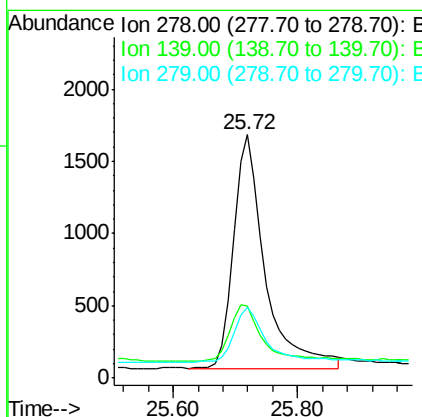
Manual Integrations  
APPROVED

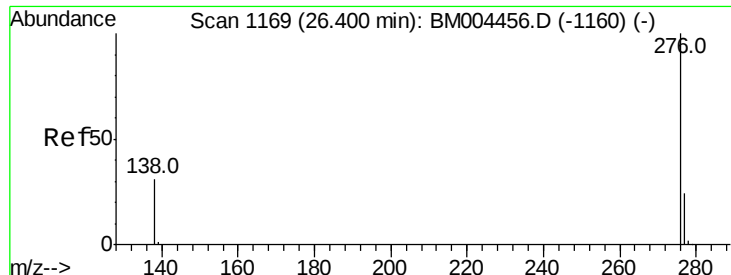
UMANGI  
2/29/2016 2:48:45 PM



#32  
Dibenzo(a,h)anthracene  
Concen: 0.50 ng  
RT: 25.72 min Scan# 1103  
Delta R.T. 0.01 min  
Lab File: BM004454.D  
Acq: 28 Feb 2016 17:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 29.4  | 22.3  | 33.5  |
| 279     | 29.1  | 20.7  | 31.1  |





#33

Benzo(a,h,i)perylene

Concen: 0.50 ng

RT: 26.40 min Scan# 1168

Delta R.T. -0.00 min

Lab File: BM004454.D

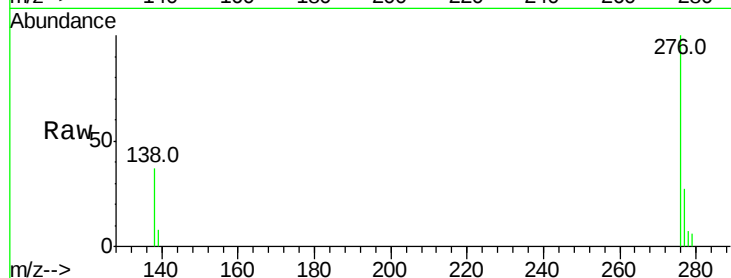
Acq: 28 Feb 2016 17:18

Instrument :

BNA\_M

ClientSampleId :

SSTDIC0.5



Tot Ion: 276 Resp: 6345

Ion Ratio Lower Upper

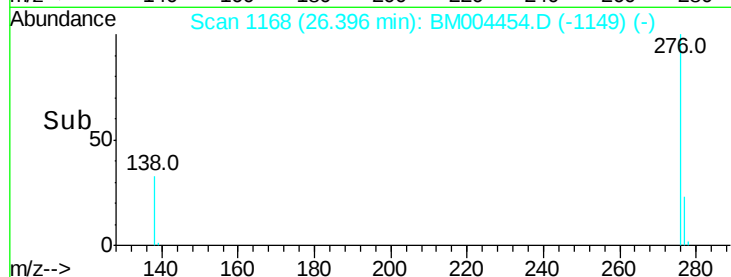
276 100

277 26.9 20.4 30.6

138 36.9 26.4 39.6

Manual Integrations  
APPROVED

UMANGI  
2/29/2016 2:48:45 PM



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

