

Data Path : Z:\HPCHEM1\BNA M\DATA\BM070716\  
 Data File : BM006305.D  
 Acq On : 07 Jul 2016 05:17  
 Operator : UM/SJ  
 Sample : H3811-21  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4TW9

## Manual Integrations

umangi  
 7/7/2016 6:06:12 PM

Quant Time: Jul 07 13:01:58 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 07 05:51:09 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.65  | 152  | 5140     | 0.40   | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.43 | 136  | 20686    | 0.40   | ng/ul  | 0.00     |
| 8) Acenaphthene-d10         | 14.30 | 164  | 12040    | 0.40   | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.04 | 188  | 26139m   | 0.40   | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.24 | 240  | 18509    | 0.40   | ng/ul  | 0.00     |
| 22) Perylene-d12            | 23.45 | 264  | 12514m   | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 2) 1,4-Dioxane-d8           | 3.17  | 96   | 10811    | 4.98   | ng/uL  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.02 | 152  | 9204     | 0.38   | ng/ul  | 0.00     |
| 16) Fluoranthene-d10        | 19.08 | 212  | 20201    | 0.37   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 9) Acenaphthylene           | 14.01 | 152  | 3909     | 0.10   | ng/ul# | 94       |
| 14) Phenanthrene            | 17.07 | 178  | 25683m   | 0.36   | ng/ul  |          |
| 15) Anthracene              | 17.18 | 178  | 3324     | 0.05   | ng/ul# | 85       |
| 17) Fluoranthene            | 19.11 | 202  | 51048m   | 0.64   | ng/ul  |          |
| 19) Pyrene                  | 19.47 | 202  | 47751    | 0.62   | ng/ul  | 97       |
| 20) Benzo(a)anthracene      | 21.22 | 228  | 14258    | 0.24   | ng/ul# | 90       |
| 21) Chrysene                | 21.27 | 228  | 19067    | 0.32   | ng/ul  | 94       |
| 23) Benzo(b)fluoranthene    | 22.78 | 252  | 22124m   | 0.49   | ng/ul  |          |
| 24) Benzo(k)fluoranthene    | 22.83 | 252  | 6478m    | 0.16   | ng/ul  |          |
| 25) Benzo(a)pyrene          | 23.35 | 252  | 12930m   | 0.31   | ng/ul  |          |
| 26) Indeno(1,2,3-cd)pyrene  | 25.66 | 276  | 9488m    | 0.21   | ng/ul  |          |
| 27) Dibenzo(a,h)anthracene  | 25.67 | 278  | 2579m    | 0.07   | ng/ul  |          |
| 28) Benzo(g,h,i)perylene    | 26.34 | 276  | 9665m    | 0.25   | ng/ul  |          |

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

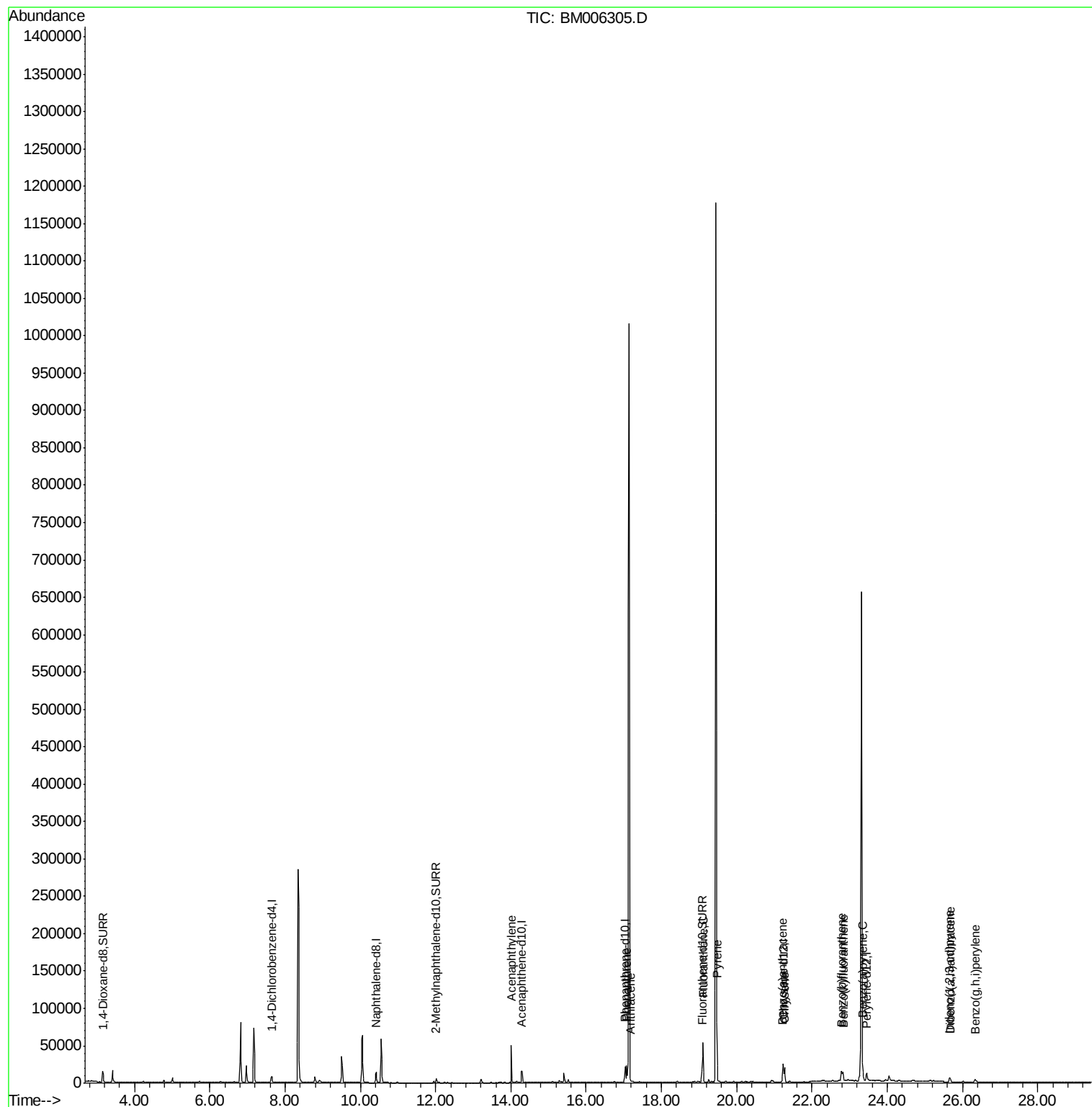
Data Path : Z:\HPCHEM1\BNA M\DATA\BM070716\  
Data File : BM006305.D  
Acq On : 07 Jul 2016 05:17  
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Misc :  
ALS Vial : 26 Sample Multiplier: 1

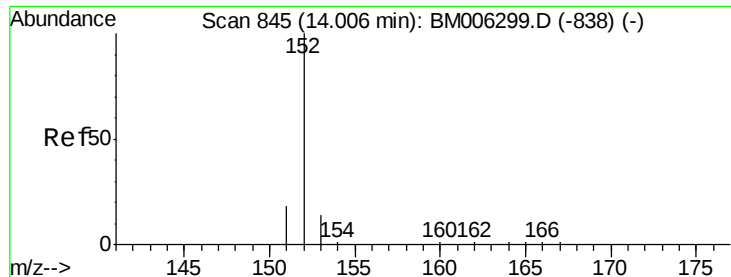
Instrument :  
BNA\_M  
ClientSampleId :  
A4TW9

## Manual Integrations

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7/7/2016 6:06:12 PM

Quant Time: Jul 07 13:01:58 2016  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM070716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 07 05:51:09 2016  
Response via : Initial Calibration





#9

Acenaphthylene

Concen: 0.10 ng/ul

RT: 14.01 min Scan# 845

Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

Instrument :

BNA\_M

ClientSampleId :

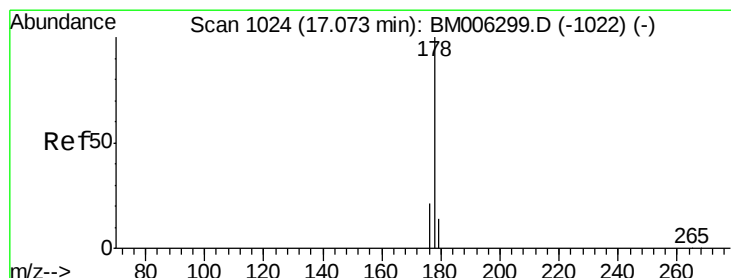
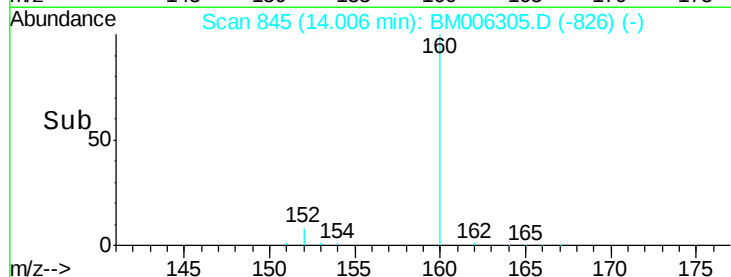
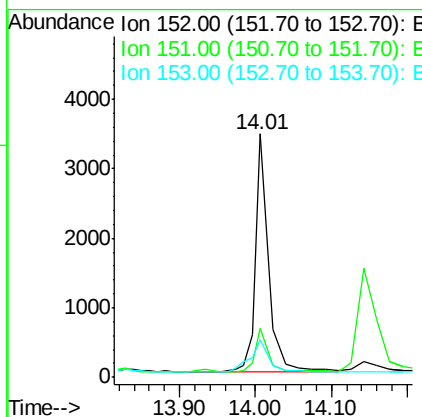
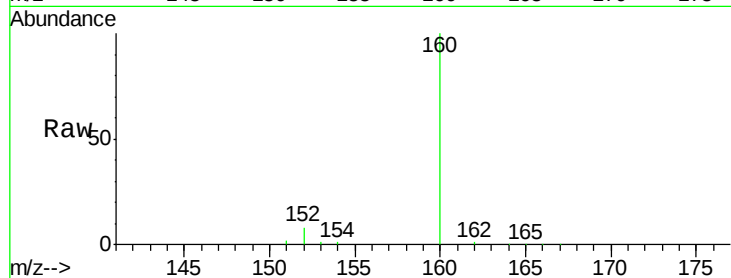
A4TW9

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 3909  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.0  | 17.6  | 26.4  |
| 153      | 15.6  | 9.7   | 14.5  |

Manual Integrations

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#14

Phenanthrene

Concen: 0.36 ng/ul m

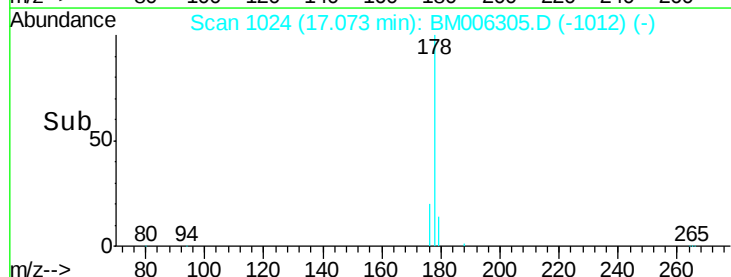
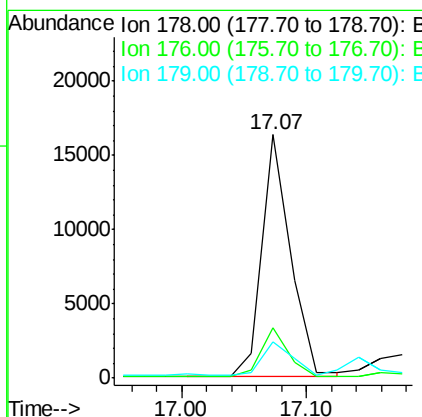
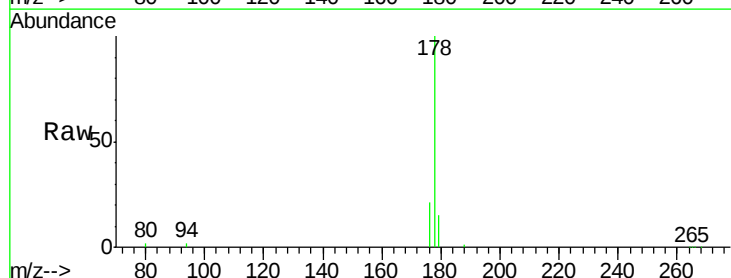
RT: 17.07 min Scan# 1024

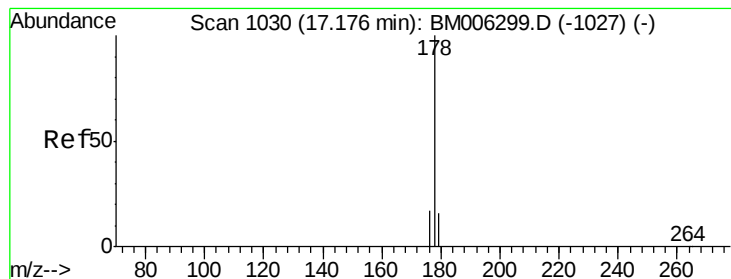
Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 25683 |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 176      | 20.6  | 13.0  | 19.4  |
| 179      | 15.0  | 14.2  | 21.2  |





#15

Anthracene

Concen: 0.05 ng/ul

RT: 17.18 min Scan# 1030

Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

Instrument :

BNA\_M

ClientSampleId :

A4TW9

Tot Ion:178 Resp: 3324

Ion Ratio Lower Upper

178 100

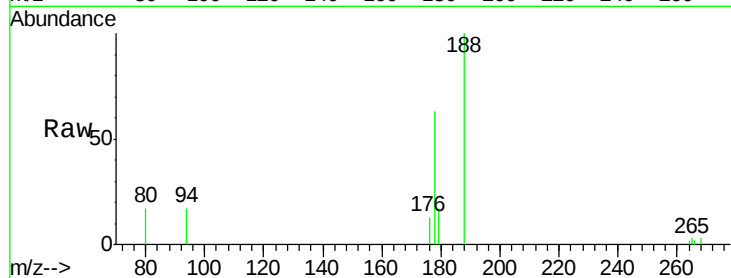
176 20.6 14.0 21.0

179 26.5 12.9 19.3#

Manual Integrations

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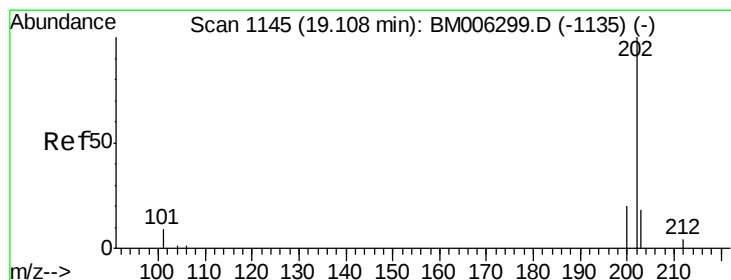
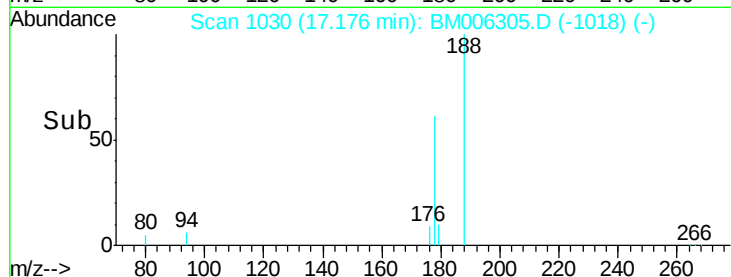
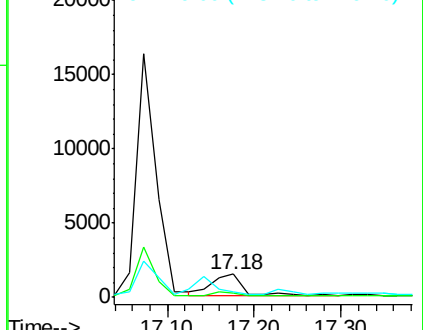
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#17

Fluoranthene

Concen: 0.64 ng/ul m

RT: 19.11 min Scan# 1145

Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

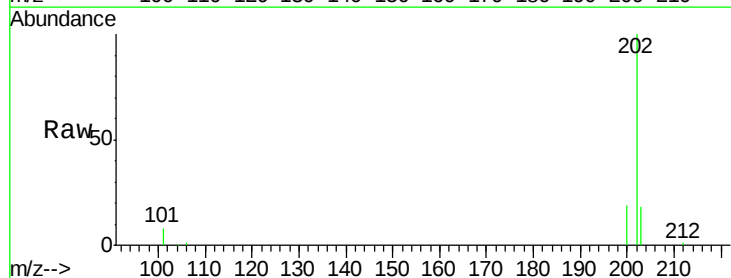
Tgt Ion:202 Resp: 51048

Ion Ratio Lower Upper

202 100

101 7.9 0.0 29.6

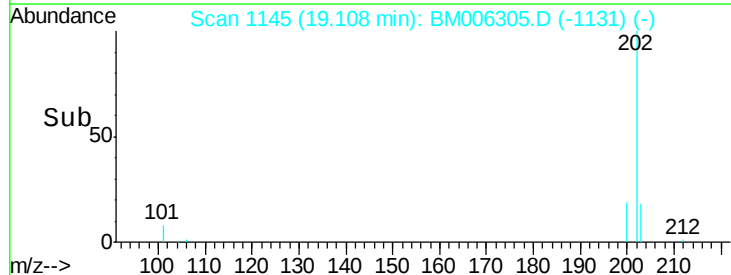
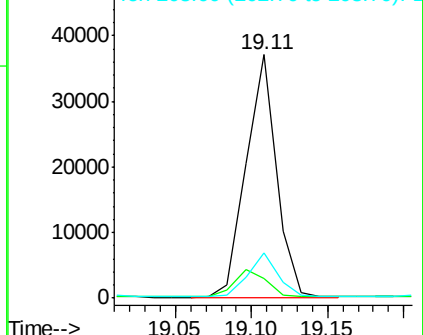
203 18.4 0.0 36.3

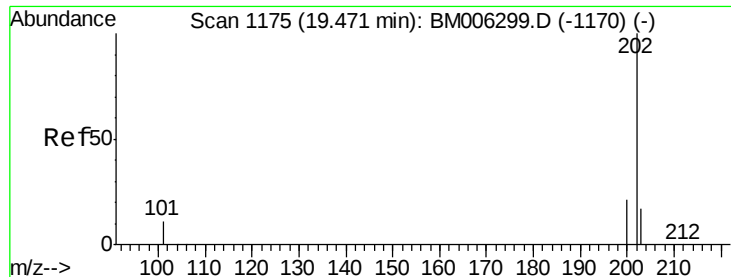


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





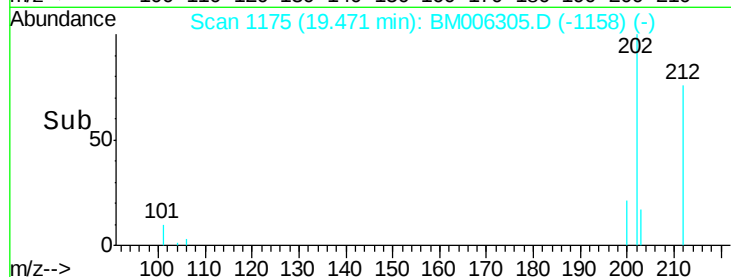
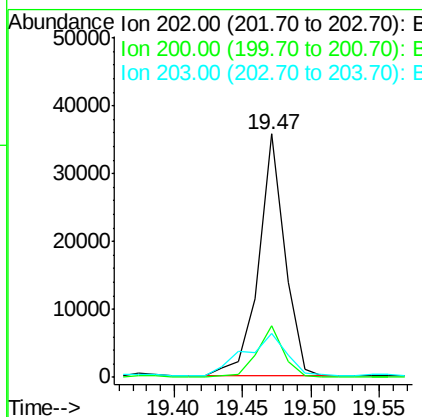
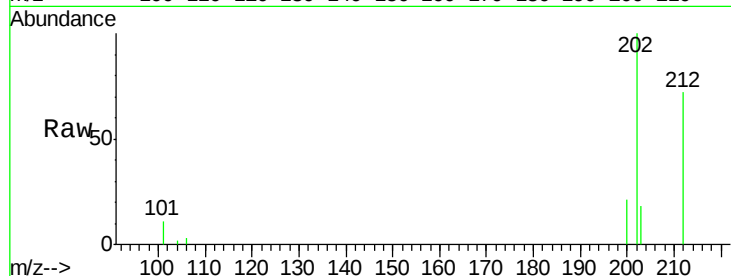
#19  
Pvrene  
Concen: 0.62 ng/ul  
RT: 19.47 min Scan# 1175  
Delta R.T. 0.00 min  
Lab File: BM006305.D  
Acq: 07 Jul 2016 05:17

Instrument :  
BNA\_M  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.0  | 17.8  | 26.8  |
| 203     | 17.8  | 12.8  | 19.2  |

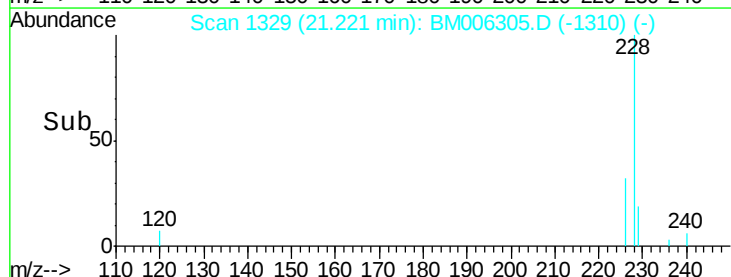
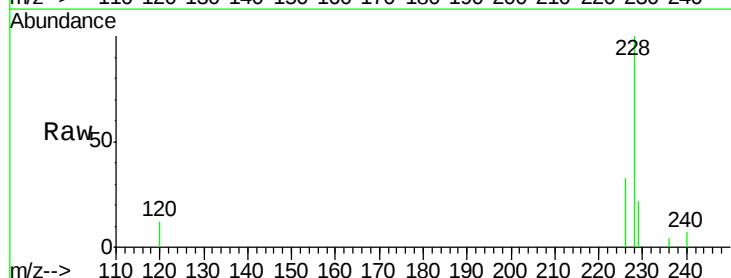
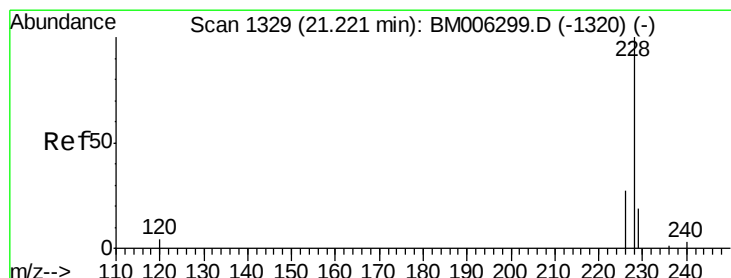
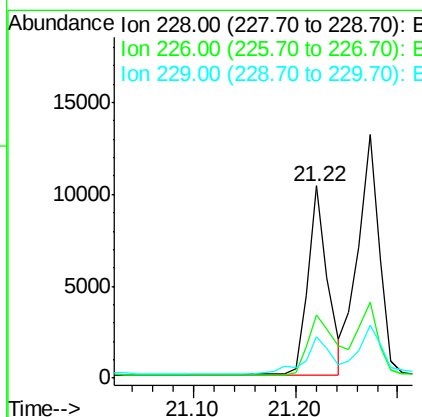
Manual Integrations

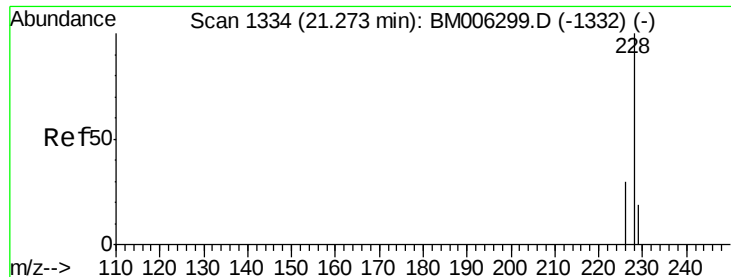
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#20  
Benzo(a)anthracene  
Concen: 0.24 ng/ul  
RT: 21.22 min Scan# 1329  
Delta R.T. 0.00 min  
Lab File: BM006305.D  
Acq: 07 Jul 2016 05:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.1  | 18.8  | 28.2# |
| 229     | 21.6  | 17.1  | 25.7  |





#21

Chrysene

Concen: 0.32 ng/ul

RT: 21.27 min Scan# 1334

Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

Instrument :

BNA\_M

ClientSampleId :

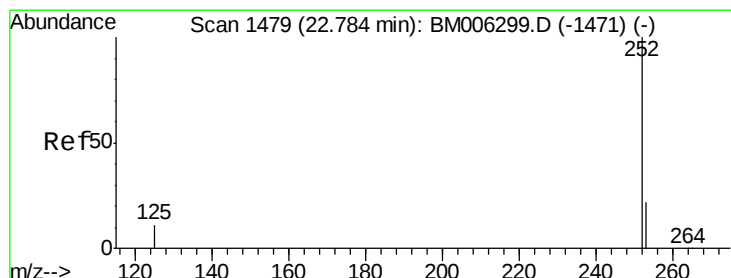
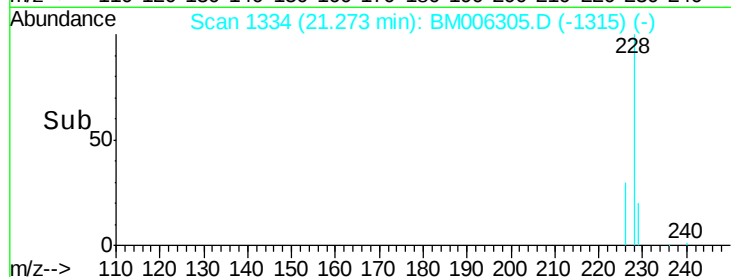
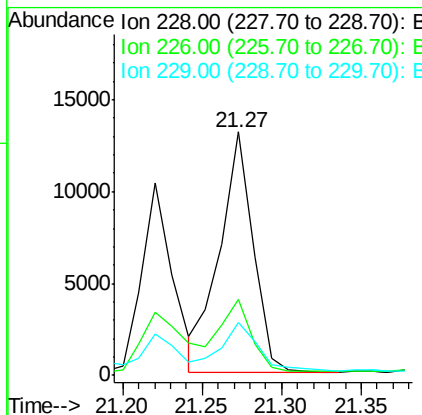
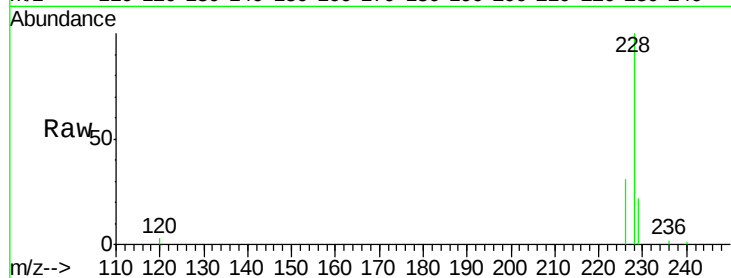
A4TW9

|             |       |       |
|-------------|-------|-------|
| Tot Ion:228 | Resp: | 19067 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 31.1    | 21.2  | 31.8  |
| 229 22.0    | 17.0  | 25.6  |

Manual Integrations

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#23

Benzo(b)fluoranthene

Concen: 0.49 ng/ul m

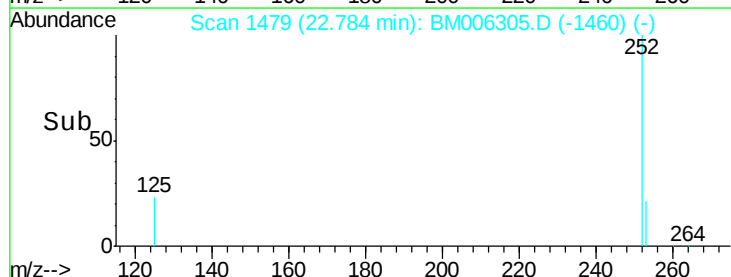
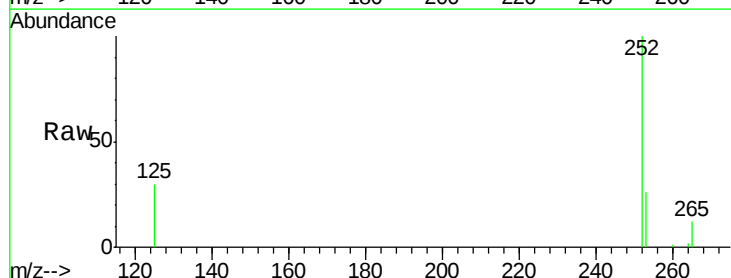
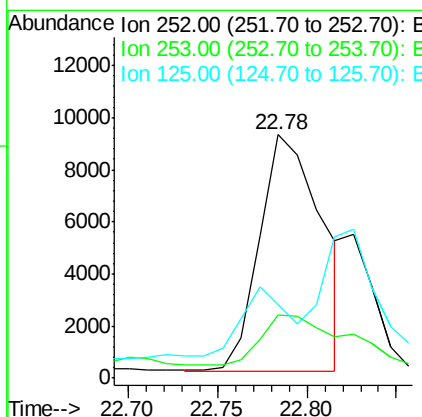
RT: 22.78 min Scan# 1479

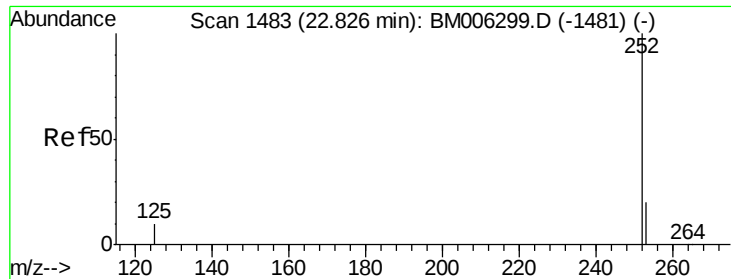
Delta R.T. 0.00 min

Lab File: BM006305.D

Acq: 07 Jul 2016 05:17

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:252 | Resp: | 22124 |
| Ion Ratio   | Lower | Upper |
| 252 100     |       |       |
| 253 25.9    | 0.0   | 45.4  |
| 125 30.0    | 0.0   | 28.8# |





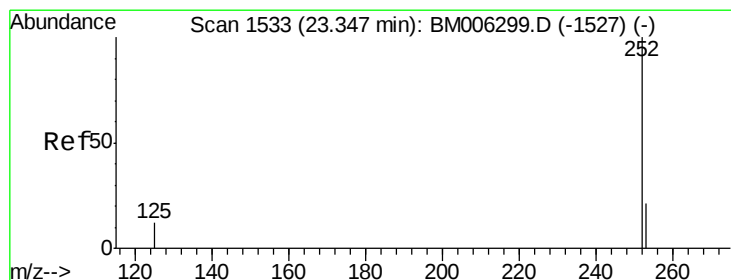
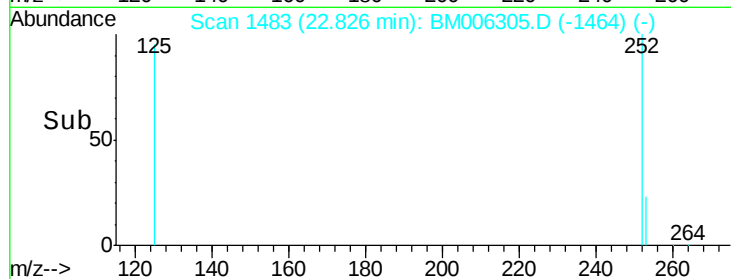
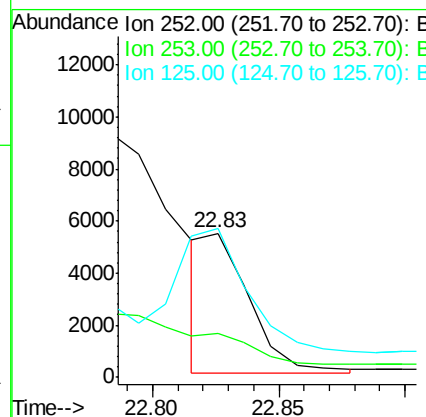
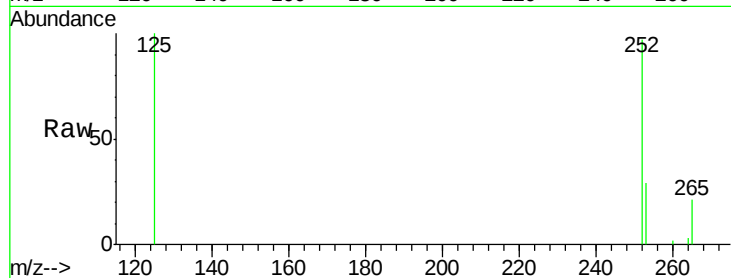
#24  
Benzo(k)fluoranthene  
Concen: 0.16 ng/ul m  
RT: 22.83 min Scan# 1483  
Delta R.T. 0.00 min  
Lab File: BM006305.D  
Acq: 07 Jul 2016 05:17

Instrument :  
BNA\_M  
ClientSampleId :  
A4TW9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.2  | 19.8  | 29.8# |
| 125     | 103.2 | 10.4  | 15.6# |

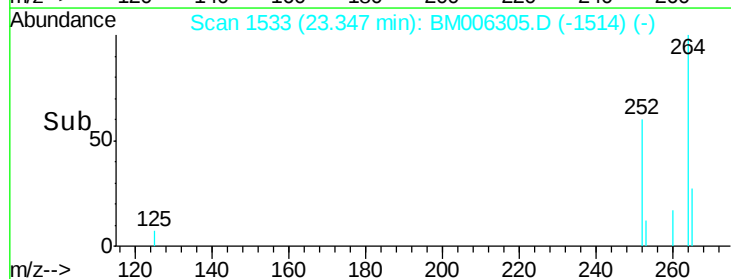
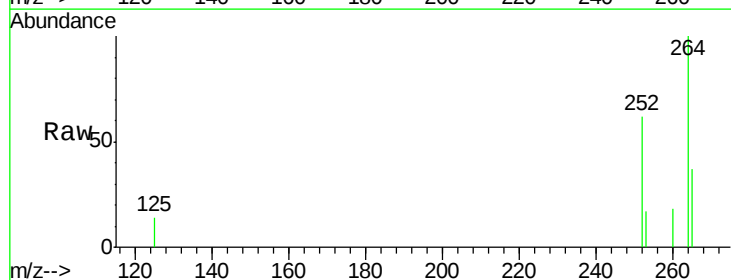
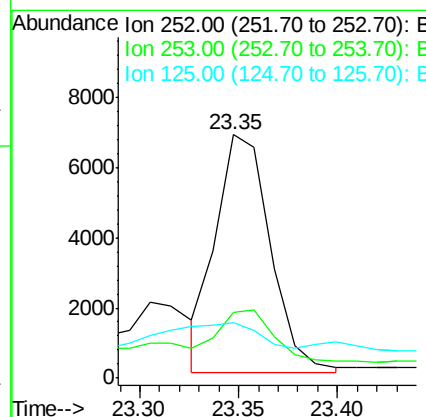
Manual Integrations

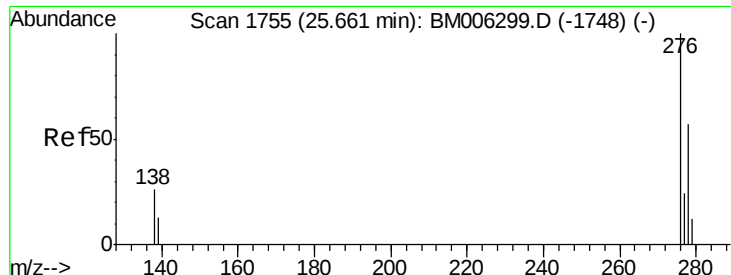
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#25  
Benzo(a)pyrene  
Concen: 0.31 ng/ul m  
RT: 23.35 min Scan# 1533  
Delta R.T. 0.00 min  
Lab File: BM006305.D  
Acq: 07 Jul 2016 05:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.0  | 19.4  | 29.2  |
| 125     | 22.6  | 12.7  | 19.1# |





#26

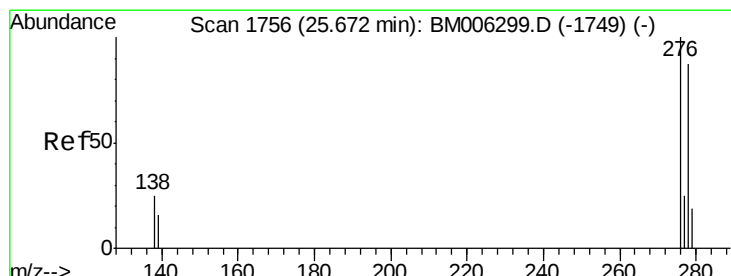
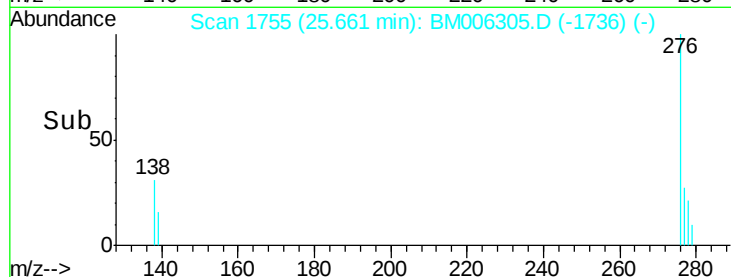
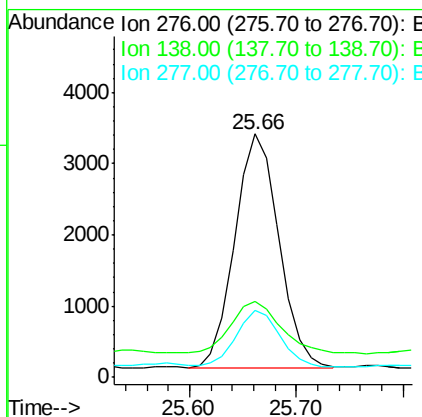
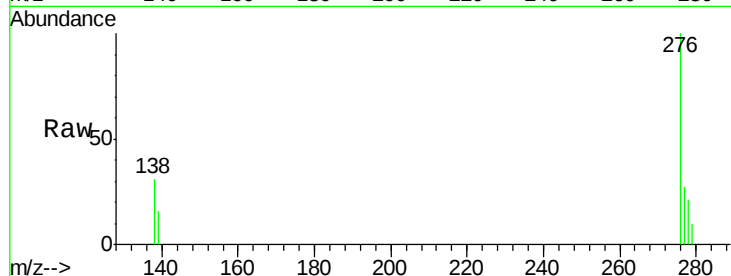
Indeno(1,2,3-cd)pyrene  
Concen: 0.21 ng/ul m  
RT: 25.66 min Scan# 1755  
Delta R.T. 0.00 min  
Lab File: BM006305.D  
Acq: 07 Jul 2016 05:17

Instrument :  
BNA\_M  
ClientSampleId :  
A4TW9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.1  | 16.3  | 24.5  |
| 277     | 16.8  | 19.8  | 29.8  |

Manual Integrations

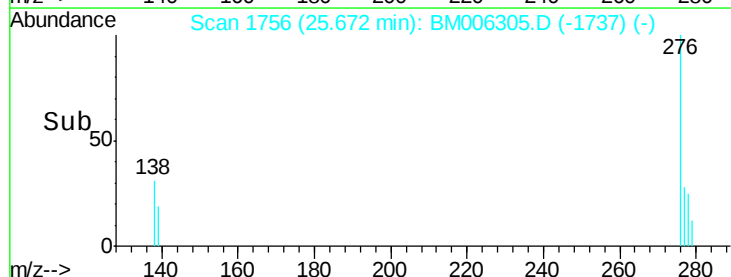
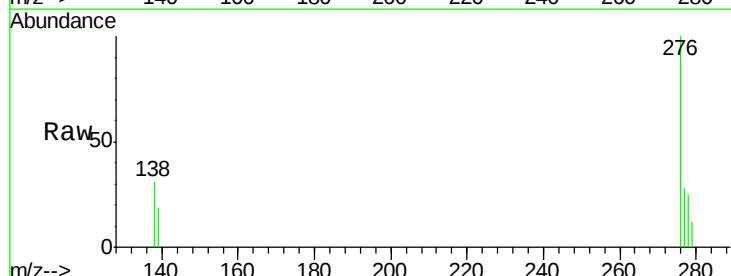
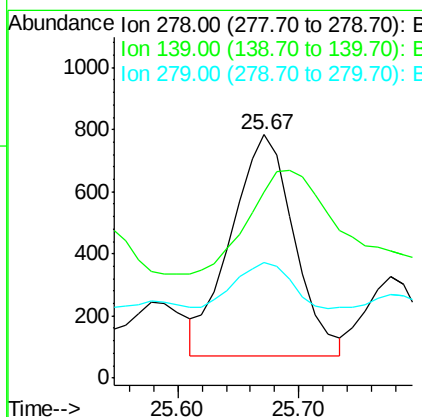
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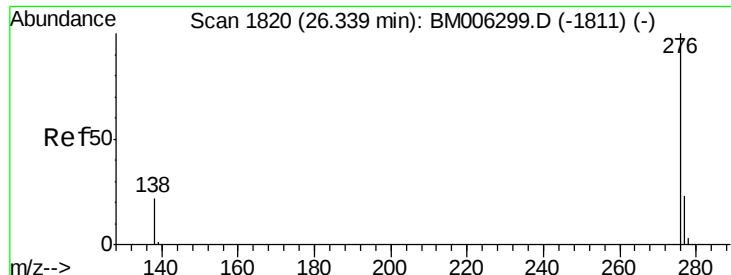


#27

Dibenzo(a,h)anthracene  
Concen: 0.07 ng/ul m  
RT: 25.67 min Scan# 1756  
Delta R.T. 0.00 min  
Lab File: BM006305.D  
Acq: 07 Jul 2016 05:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 76.3  | 16.4  | 24.6  |
| 279     | 47.7  | 20.2  | 30.2  |





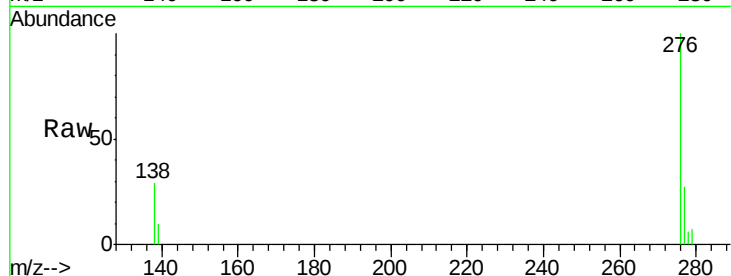
#28  
 Benzo(a,h,i)perylene  
 Concen: 0.25 ng/ul m  
 RT: 26.34 min Scan# 1820  
 Delta R.T. 0.00 min  
 Lab File: BM006305.D  
 Acq: 07 Jul 2016 05:17

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4TW9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.6  | 18.9  | 28.3  |
| 138     | 29.1  | 22.5  | 33.7  |

Manual Integrations

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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

