

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM062416\  
 Data File : BM005983.D  
 Acq On : 25 Jun 2016 01:37  
 Operator : UM/SJ  
 Sample : H3612-13  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Z31

## Manual Integrations

umangi  
 6/27/2016 4:40:27 PM

Quant Time: Jun 25 07:14:13 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM062216.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jun 24 23:55:23 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 294549   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.44 | 136  | 1320499  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.31 | 164  | 717998   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.06 | 188  | 1547046  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.25 | 240  | 1476364  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.47 | 264  | 1558375  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.18  | 96  | 11569   | 1.56  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.83  | 99  | 550070  | 21.69 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.00  | 67  | 333503  | 21.49 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.19  | 132 | 413490  | 20.70 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.36  | 113 | 418373  | 21.05 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.81  | 128 | 204184  | 21.02 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.53  | 143 | 227819  | 22.41 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.06 | 165 | 416869  | 21.40 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.58 | 131 | 313023  | 14.69 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.72 | 166 | 1220476 | 21.39 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.00 | 160 | 1566134 | 21.98 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.50 | 143 | 203774  | 18.27 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.30 | 176 | 1071753 | 21.75 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.42 | 200 | 161008  | 20.89 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.16 | 188 | 1572050 | 22.31 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.45 | 212 | 1652750 | 24.12 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.33 | 264 | 1643075 | 23.40 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |             | Qvalue |
|----------------------------|-------|-----|---------|-------------|--------|
| 14) Acetophenone           | 8.47  | 105 | 60218   | 1.97 ng/ul  | 98     |
| 44) Dimethylphthalate      | 13.77 | 163 | 993813  | 17.26 ng/ul | 100    |
| 47) Acenaphthylene         | 14.03 | 152 | 103522  | 1.37 ng/ul  | 99     |
| 49) Acenaphthene           | 14.37 | 153 | 94851   | 1.98 ng/ul  | 99     |
| 53) Dibenzofuran           | 14.71 | 168 | 119091  | 1.72 ng/ul  | 99     |
| 58) Fluorene               | 15.36 | 166 | 91943   | 1.71 ng/ul  | 94     |
| 69) Phenanthrene           | 17.10 | 178 | 2976852 | 35.45 ng/ul | 99     |
| 71) Anthracene             | 17.19 | 178 | 411735  | 4.80 ng/ul  | 100    |
| 72) Carbazole              | 17.46 | 167 | 416465  | 5.64 ng/ul  | 99     |
| 74) Fluoranthene           | 19.12 | 202 | 4889503 | 53.09 ng/ul | 97     |
| 77) Pyrene                 | 19.49 | 202 | 4020523 | 44.53 ng/ul | 98     |
| 80) Benzo(a)anthracene     | 21.23 | 228 | 1822827 | 20.81 ng/ul | 98     |
| 82) Chrysene               | 21.29 | 228 | 2405594 | 29.76 ng/ul | 98     |
| 85) Benzo(b)fluoranthene   | 22.81 | 252 | 3357818 | 35.47 ng/ul | 99     |
| 86) Benzo(k)fluoranthene   | 22.84 | 252 | 982881m | 11.41 ng/ul |        |
| 88) Benzo(a)pyrene         | 23.37 | 252 | 1728818 | 19.66 ng/ul | 97     |
| 89) Indeno(1,2,3-cd)pyrene | 25.69 | 276 | 1400506 | 14.28 ng/ul | 97     |
| 90) Dibenzo(a,h)anthracene | 25.69 | 278 | 357907  | 4.42 ng/ul# | 82     |
| 91) Benzo(g,h,i)perylene   | 26.36 | 276 | 1222008 | 14.45 ng/ul | 96     |

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

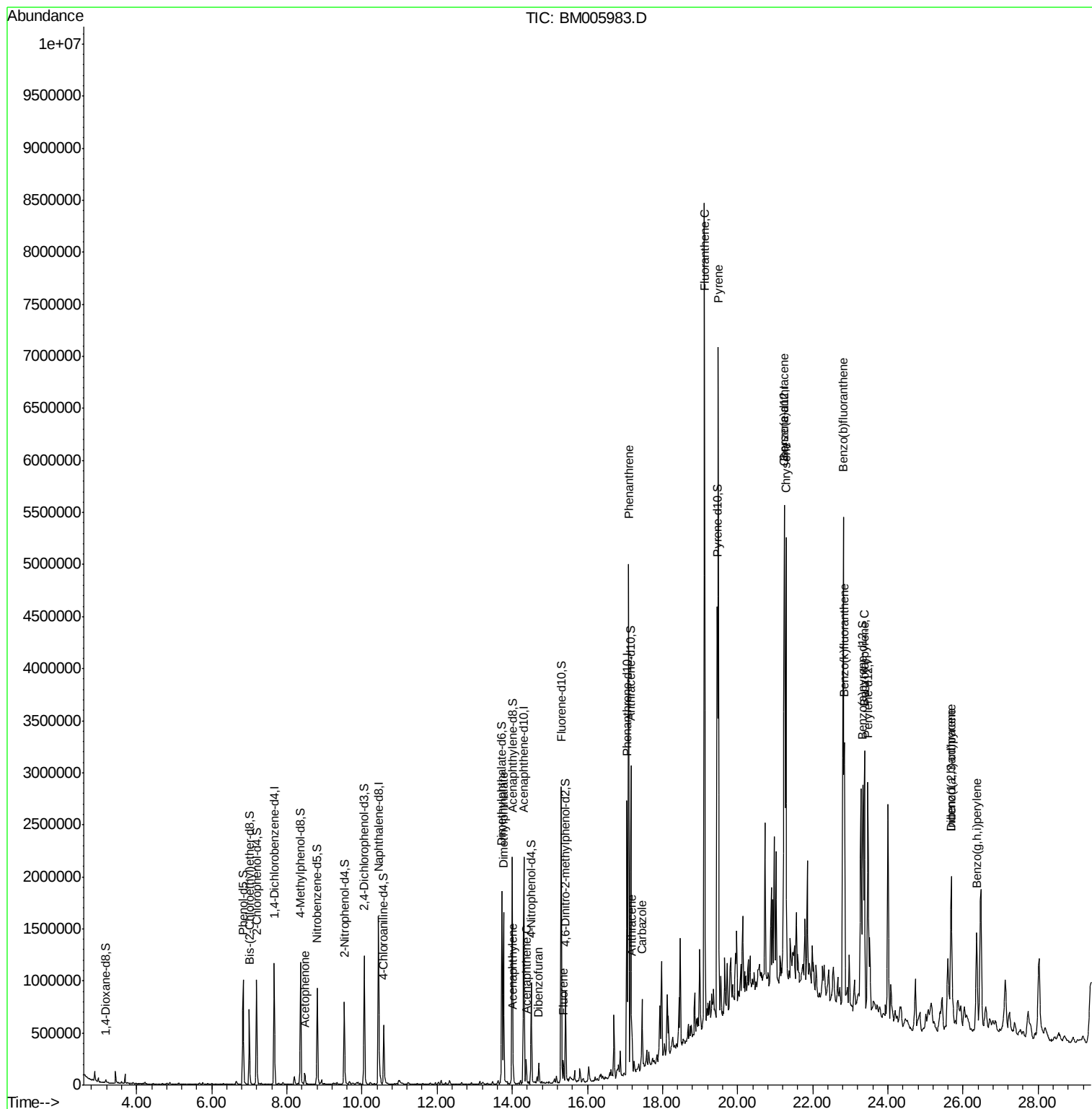
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM062416\  
Data File : BM005983.D  
Acq On : 25 Jun 2016 01:37  
Operator : UM/SJ  
Sample : H3612-13  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

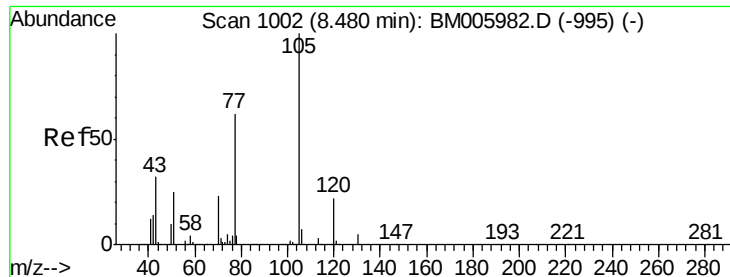
Instrument :  
BNA\_M  
ClientSampleId :  
D9Z31

## Manual Integrations

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Quant Time: Jun 25 07:14:13 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM062216.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Jun 24 23:55:23 2016  
Response via : Initial Calibration





#14

Acetophenone

Concen: 1.97 ng/ul

RT: 8.47 min Scan# 1001

Delta R.T. -0.01 min

Lab File: BM005983.D

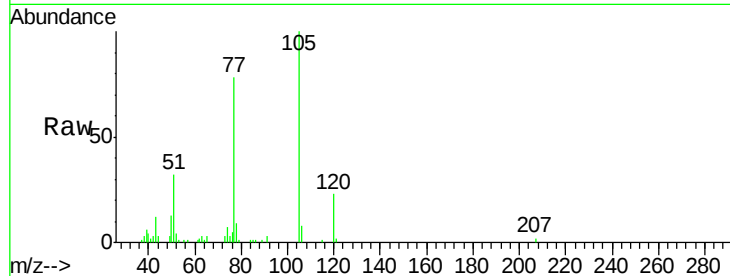
Acq: 25 Jun 2016 01:37

Instrument :

BNA\_M

ClientSampleId :

D9Z31

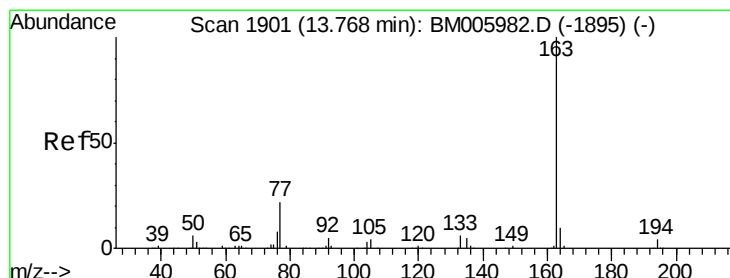
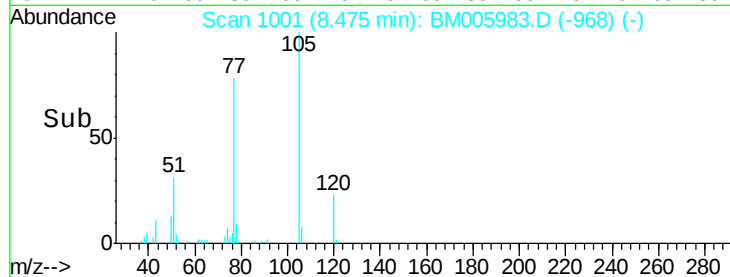
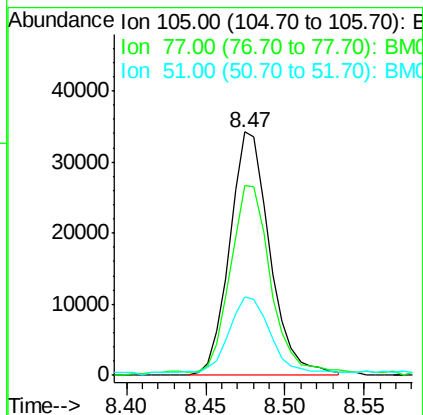


|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 60218 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 77        | 77.8  | 63.4  | 95.2  |
| 51        | 32.4  | 25.4  | 38.2  |

Manual Integrations

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#44

Dimethylphthalate

Concen: 17.26 ng/ul

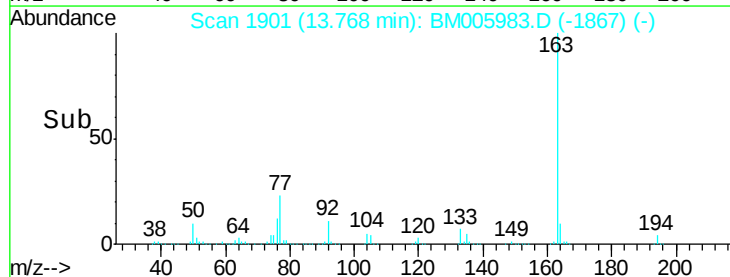
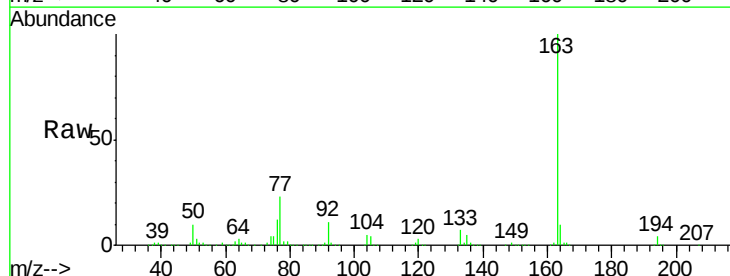
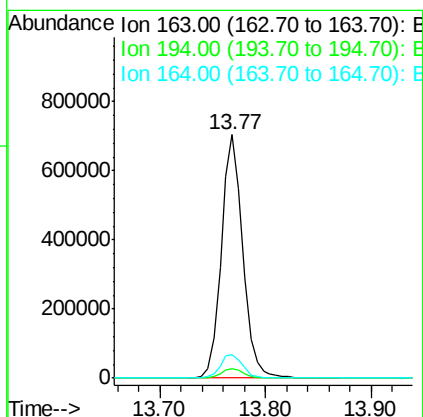
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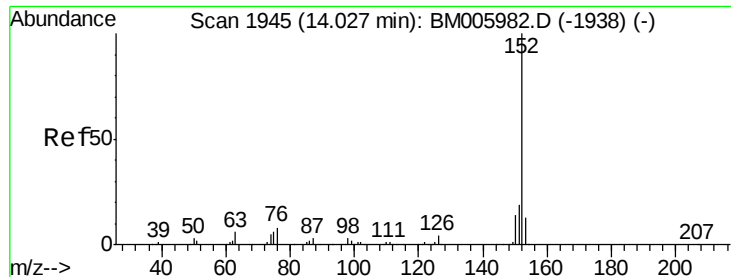
Delta R.T. -0.00 min

Lab File: BM005983.D

Acq: 25 Jun 2016 01:37

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 993813 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 3.9   | 3.1   | 4.7    |
| 164       | 9.7   | 7.9   | 11.9   |





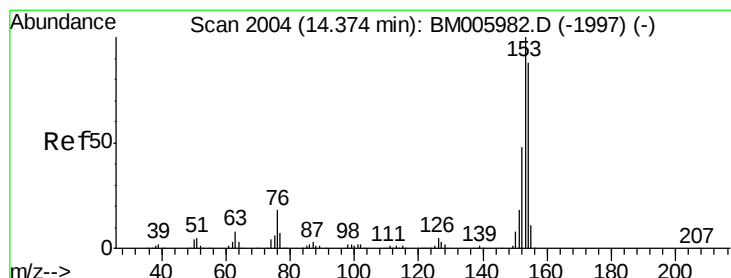
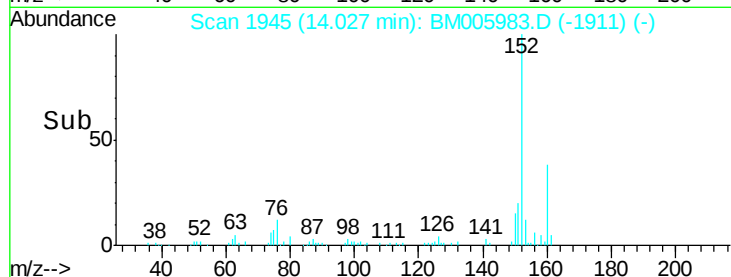
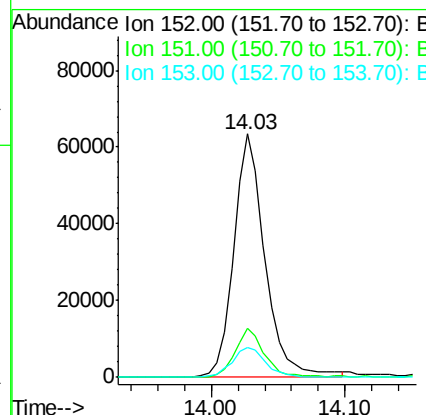
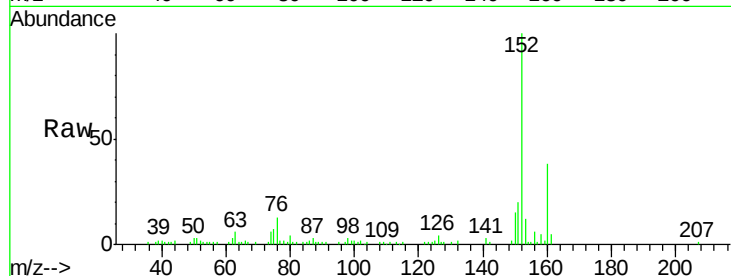
#47  
Acenaphthylene  
Concen: 1.37 ng/ul  
RT: 14.03 min Scan# 1945  
Delta R.T. -0.00 min  
Lab File: BM005983.D  
Acq: 25 Jun 2016 01:37

Instrument :  
BNA\_M  
ClientSampleId :  
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|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 103522 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 20.2  | 15.4  | 23.2   |
| 153       | 12.3  | 10.0  | 15.0   |

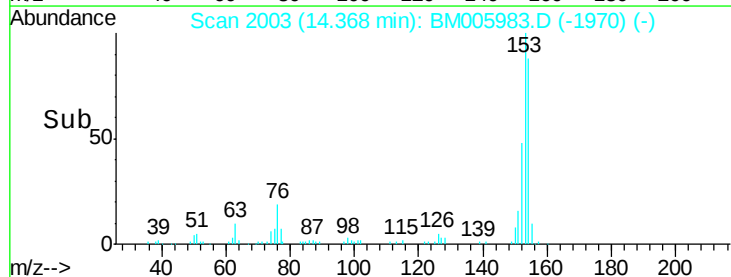
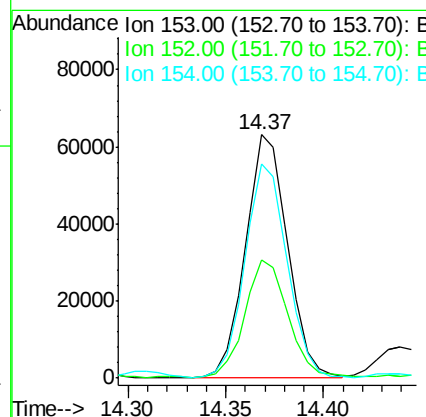
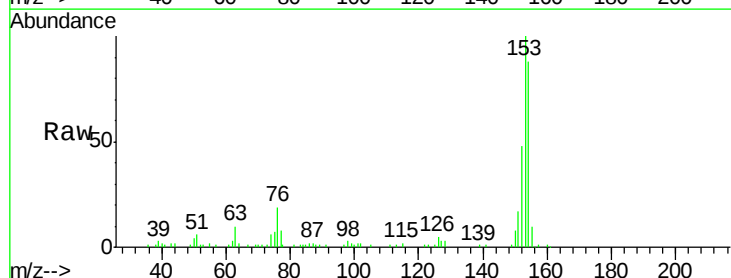
Manual Integrations

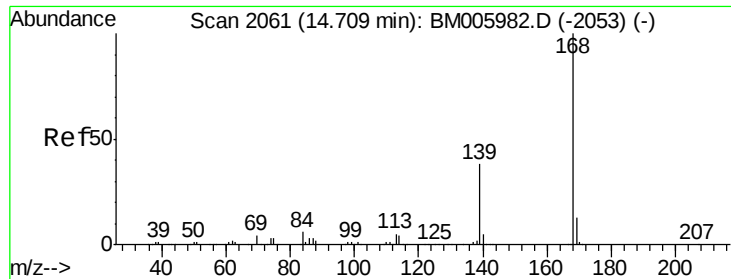
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#49  
Acenaphthene  
Concen: 1.98 ng/ul  
RT: 14.37 min Scan# 2003  
Delta R.T. -0.01 min  
Lab File: BM005983.D  
Acq: 25 Jun 2016 01:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 94851 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 48.4  | 38.4  | 57.6  |
| 154       | 88.1  | 71.9  | 107.9 |





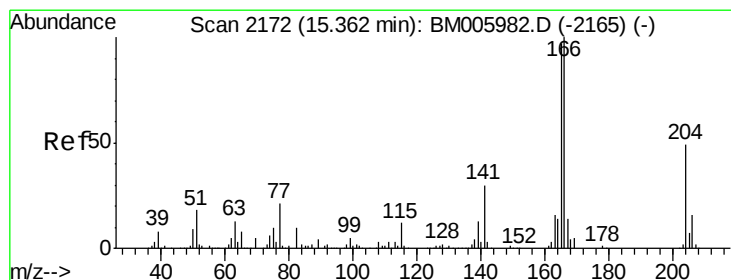
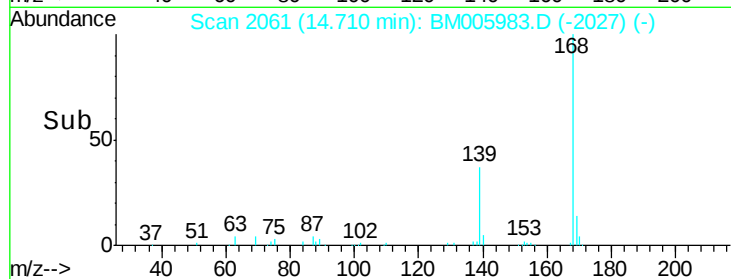
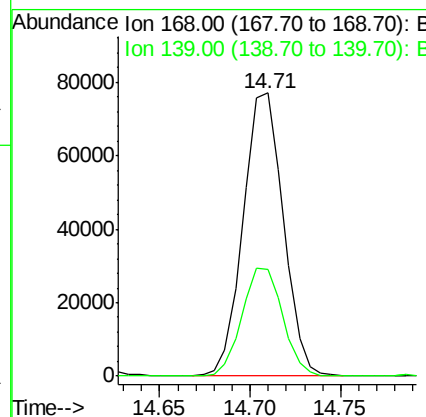
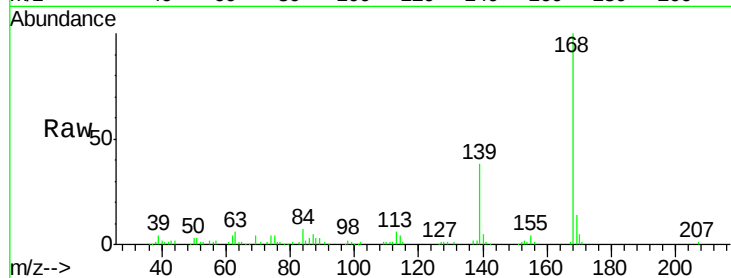
#53  
Dibenzenofuran  
Concen: 1.72 ng/ul  
RT: 14.71 min Scan# 2061  
Delta R.T. -0.00 min  
Lab File: BM005983.D  
Acq: 25 Jun 2016 01:37

Instrument :  
BNA\_M  
ClientSampleId :  
D9Z31

Tgt Ion:168 Resp: 119091  
Ion Ratio Lower Upper  
168 100  
139 37.8 30.8 46.2

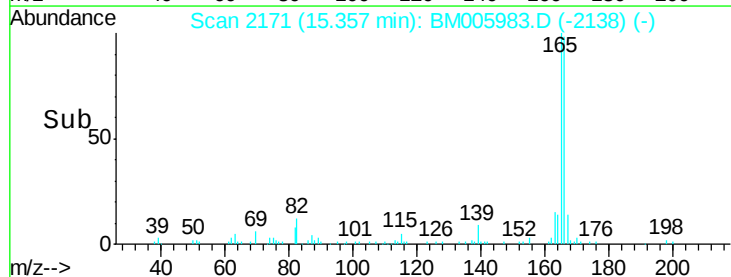
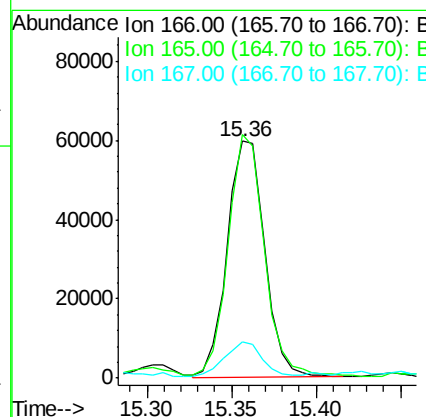
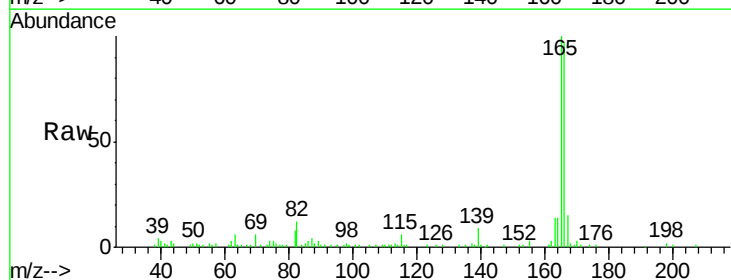
Manual Integrations

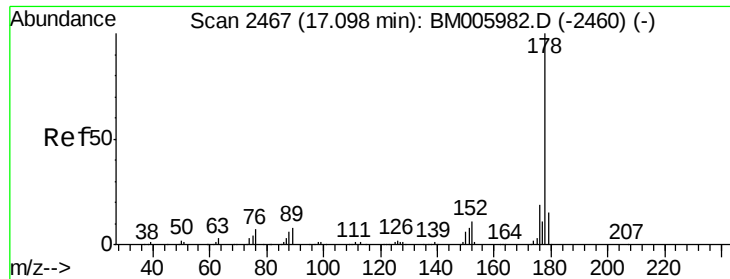
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#58  
Fluorene  
Concen: 1.71 ng/ul  
RT: 15.36 min Scan# 2171  
Delta R.T. -0.01 min  
Lab File: BM005983.D  
Acq: 25 Jun 2016 01:37

Tgt Ion:166 Resp: 91943  
Ion Ratio Lower Upper  
166 100  
165 102.9 77.3 115.9  
167 15.2 11.0 16.6





#69

Phenanthrene

Concen: 35.45 ng/ul

RT: 17.10 min Scan# 2467

Delta R.T. -0.00 min

Lab File: BM005983.D

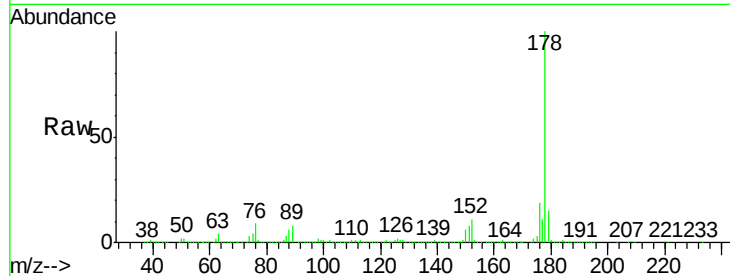
Acq: 25 Jun 2016 01:37

Instrument :

BNA\_M

ClientSampled :

D9Z31



Tgt Ion:178 Resp: 2976852

Ion Ratio Lower Upper

178 100

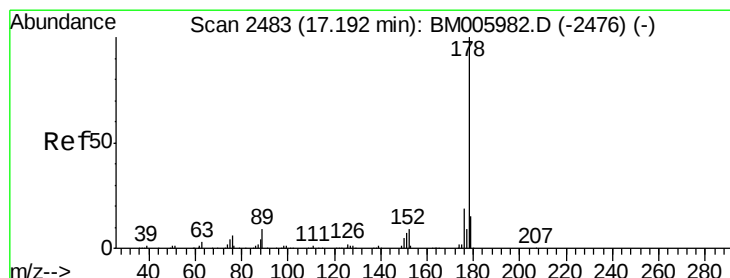
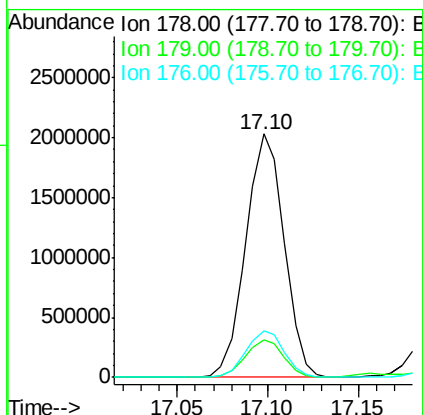
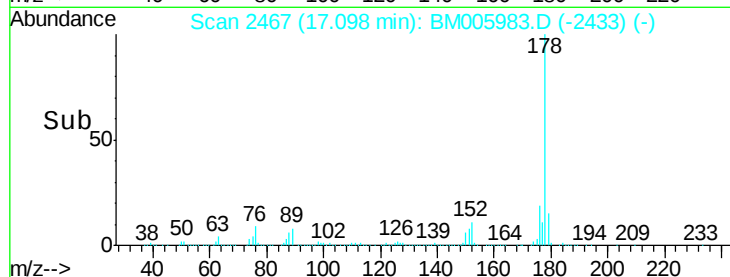
179 15.4 12.0 18.0

176 18.9 15.3 22.9

Manual Integrations

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#71

Anthracene

Concen: 4.80 ng/ul

RT: 17.19 min Scan# 2482

Delta R.T. -0.00 min

Lab File: BM005983.D

Acq: 25 Jun 2016 01:37

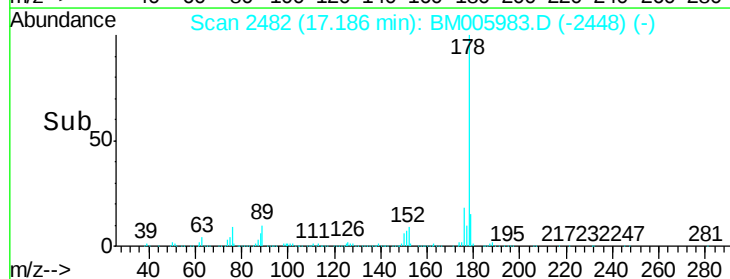
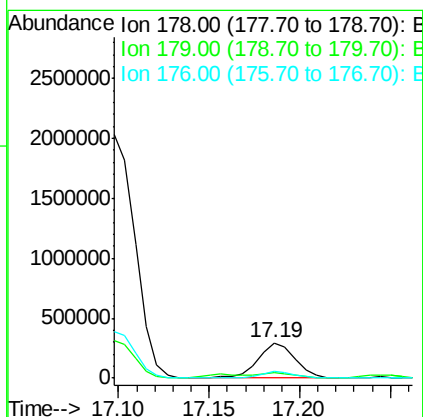
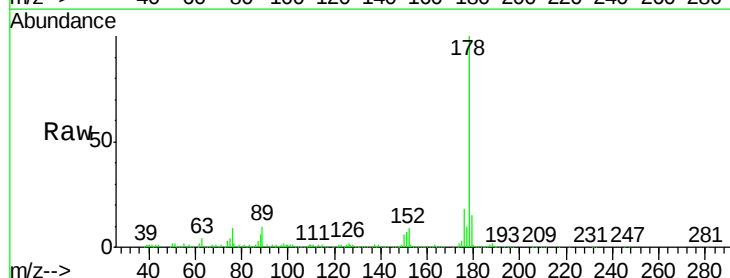
Tgt Ion:178 Resp: 411735

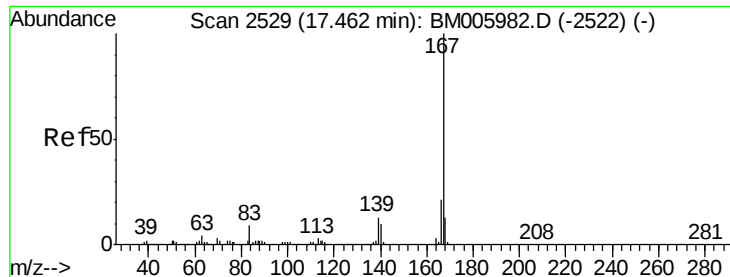
Ion Ratio Lower Upper

178 100

179 15.4 12.2 18.2

176 18.2 14.7 22.1





#72

Carbazole

Concen: 5.64 ng/ul

RT: 17.46 min Scan# 2528

Delta R.T. -0.00 min

Lab File: BM005983.D

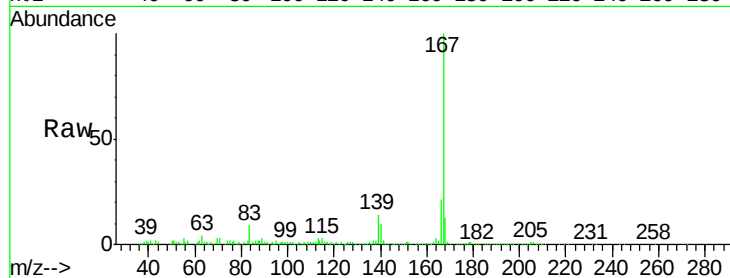
Acq: 25 Jun 2016 01:37

Instrument :

BNA\_M

ClientSampleId :

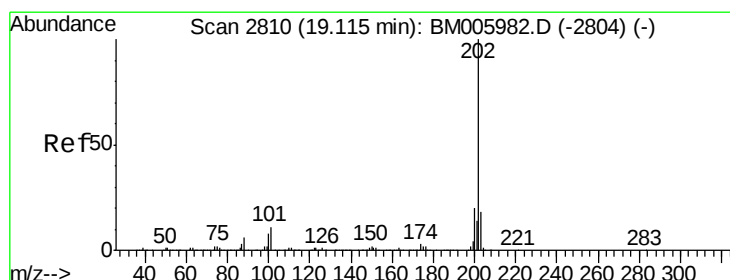
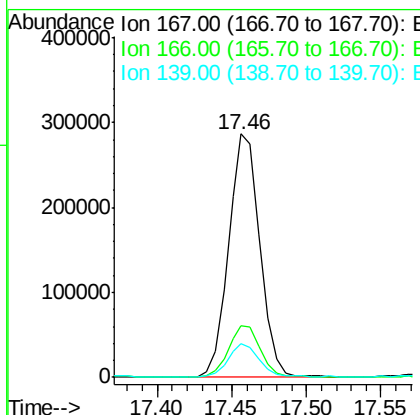
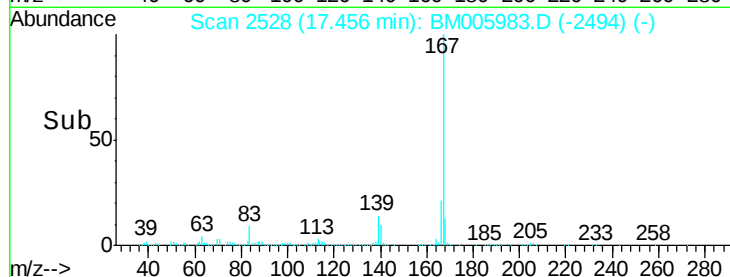
D9Z31



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 416465 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 21.4  | 17.3  | 25.9   |
| 139       | 13.8  | 10.8  | 16.2   |

Manual Integrations

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#74

Fluoranthene

Concen: 53.09 ng/ul

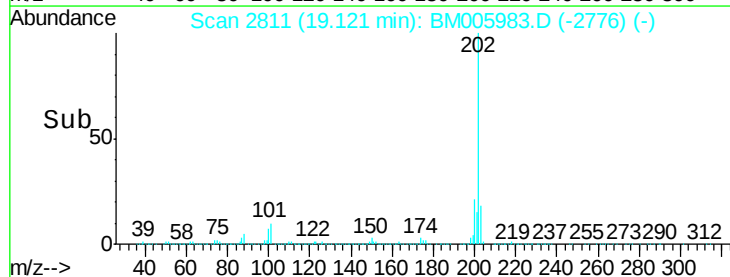
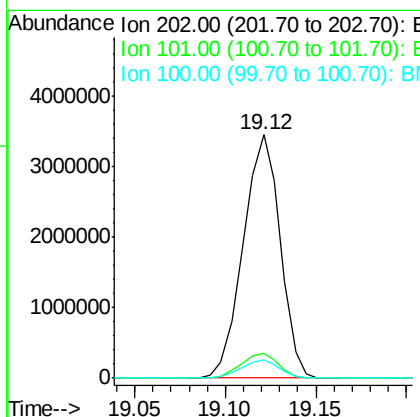
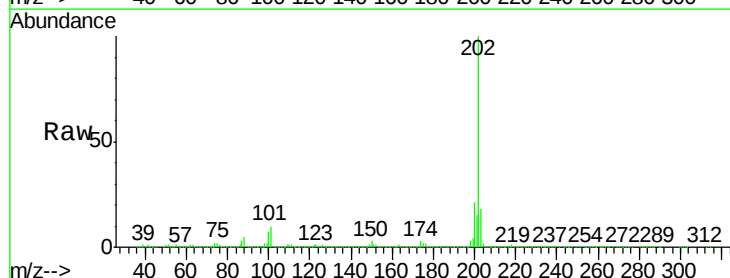
RT: 19.12 min Scan# 2811

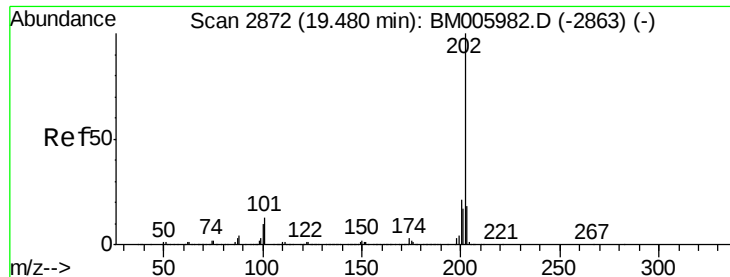
Delta R.T. 0.01 min

Lab File: BM005983.D

Acq: 25 Jun 2016 01:37

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 4889503 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 10.1  | 9.2   | 13.8    |
| 100       | 7.3   | 6.6   | 9.8     |





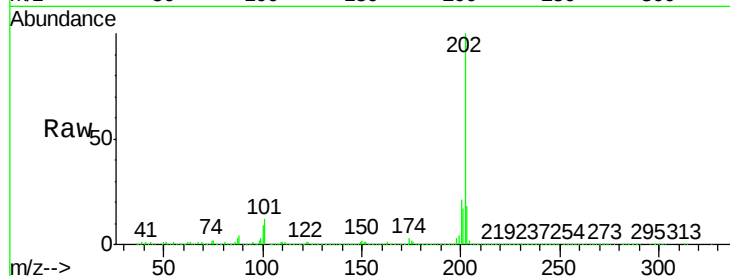
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 Pyrene  
 Concen: 44.53 ng/ul  
 RT: 19.49 min Scan# 2873  
 Delta R.T. 0.01 min  
 Lab File: BM005983.D  
 Acq: 25 Jun 2016 01:37

Instrument :  
 BNA\_M  
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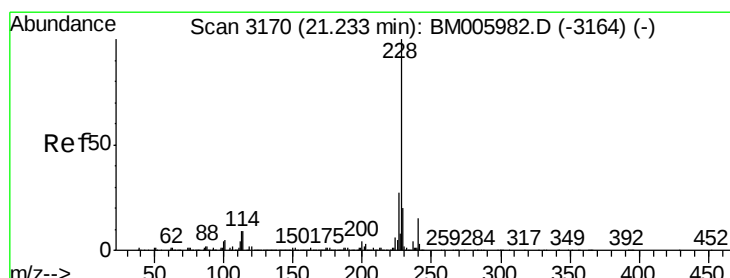
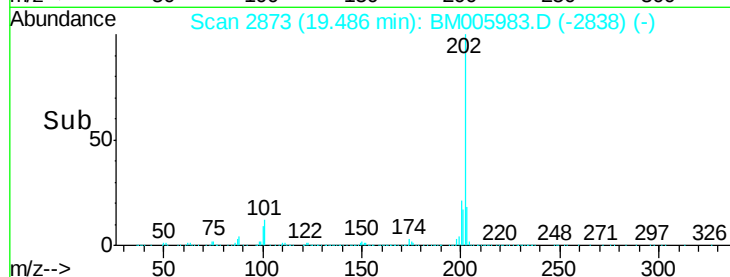
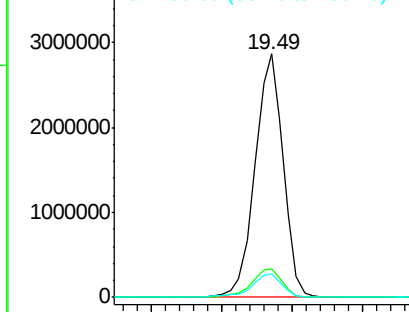
Tgt Ion: 202 Resp: 4020523  
 Ion Ratio Lower Upper  
 202 100  
 101 11.9 10.2 15.2  
 100 9.5 8.2 12.4

Manual Integrations

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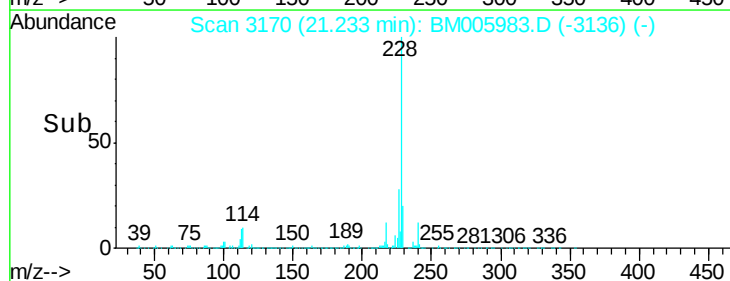
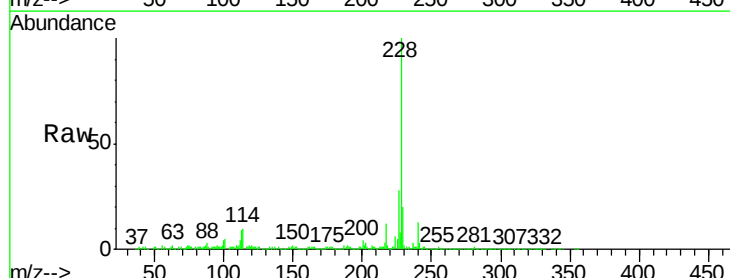
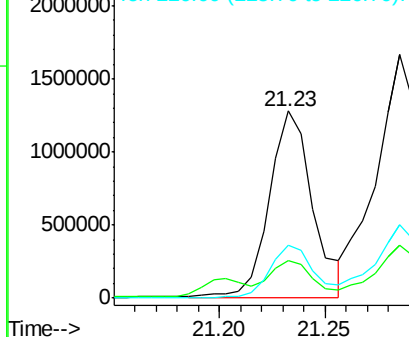
Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

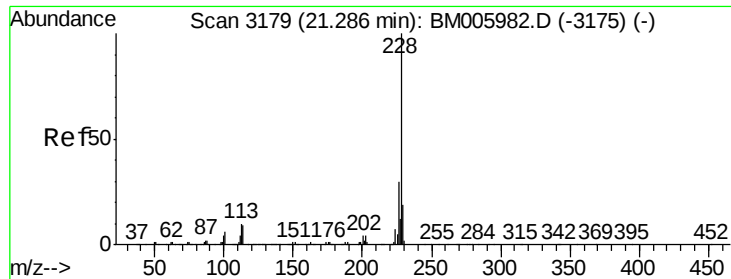


#80  
 Benzo(a)anthracene  
 Concen: 20.81 ng/ul  
 RT: 21.23 min Scan# 3170  
 Delta R.T. -0.00 min  
 Lab File: BM005983.D  
 Acq: 25 Jun 2016 01:37

Tgt Ion: 228 Resp: 1822827  
 Ion Ratio Lower Upper  
 228 100  
 229 20.4 15.8 23.8  
 226 28.4 21.6 32.4

Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 229.00 (228.70 to 229.70): E  
 Ion 226.00 (225.70 to 226.70): E





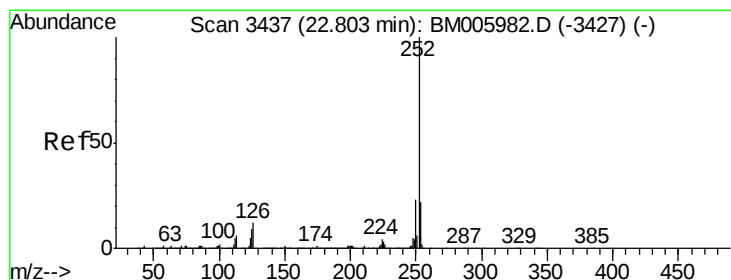
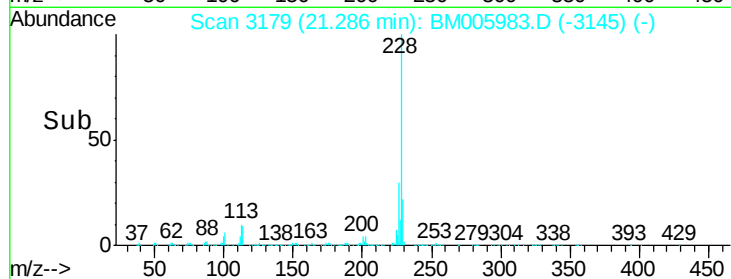
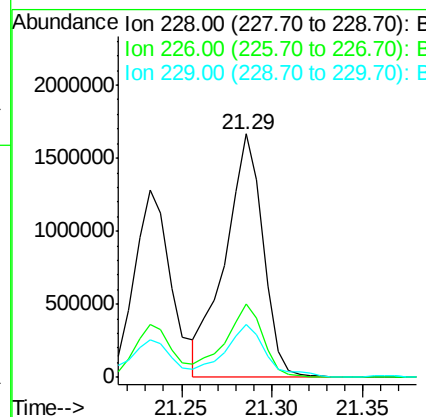
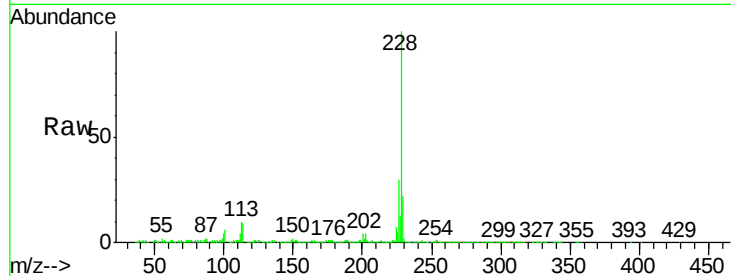
#82  
Chrysene  
Concen: 29.76 ng/ul  
RT: 21.29 min Scan# 3179  
Delta R.T. -0.00 min  
Lab File: BM005983.D  
Acq: 25 Jun 2016 01:37

Instrument :  
BNA\_M  
ClientSampleId :  
D9Z31

Tgt Ion:228 Resp: 2405594  
Ion Ratio Lower Upper  
228 100  
226 30.0 24.2 36.2  
229 21.8 15.8 23.6

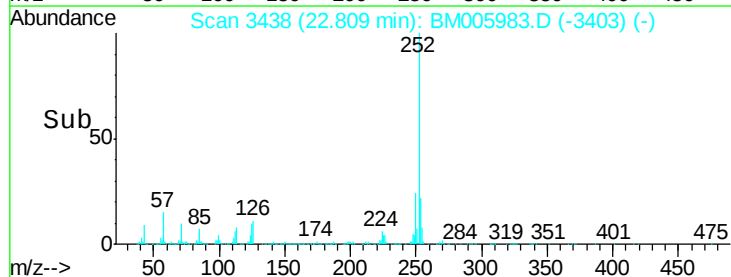
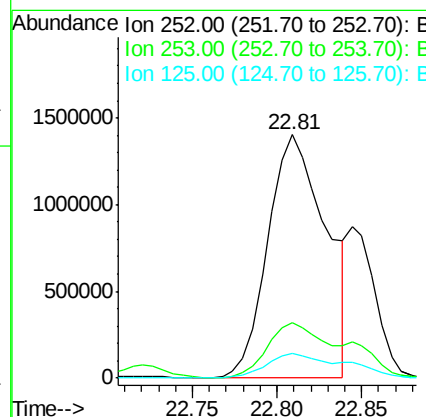
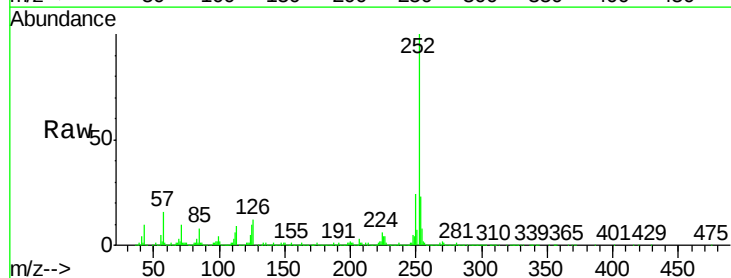
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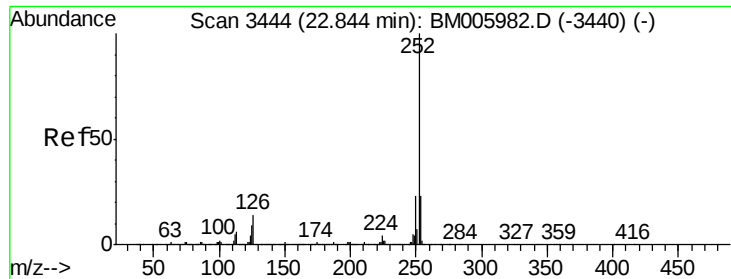
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#85  
Benzo(b)fluoranthene  
Concen: 35.47 ng/ul  
RT: 22.81 min Scan# 3438  
Delta R.T. 0.01 min  
Lab File: BM005983.D  
Acq: 25 Jun 2016 01:37

Tgt Ion:252 Resp: 3357818  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.7 26.5  
125 10.0 7.4 11.2





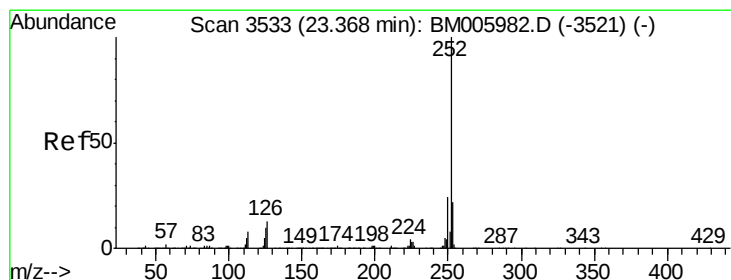
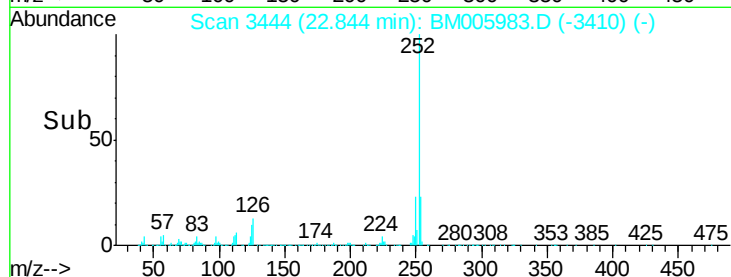
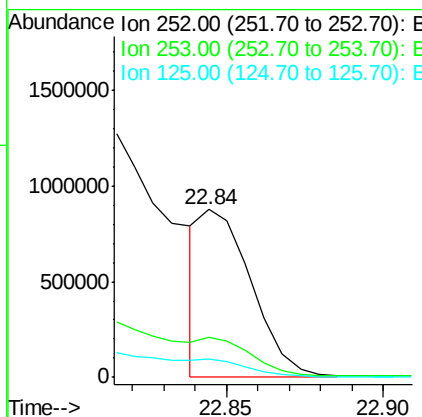
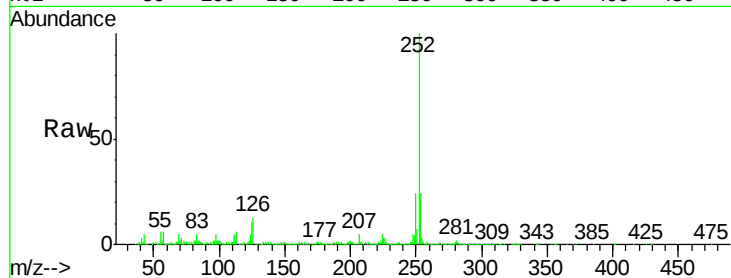
#86  
Benzo(k)fluoranthene  
Concen: 11.41 ng/ul m  
RT: 22.84 min Scan# 3444  
Delta R.T. -0.00 min  
Lab File: BM005983.D  
Acq: 25 Jun 2016 01:37

Instrument :  
BNA\_M  
ClientSampleId :  
D9Z31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.6  | 26.4  |
| 125     | 10.7  | 7.4   | 11.0  |

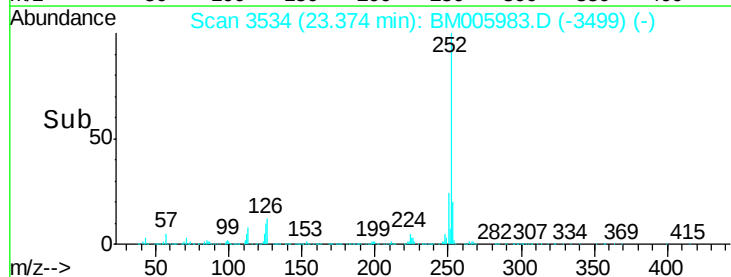
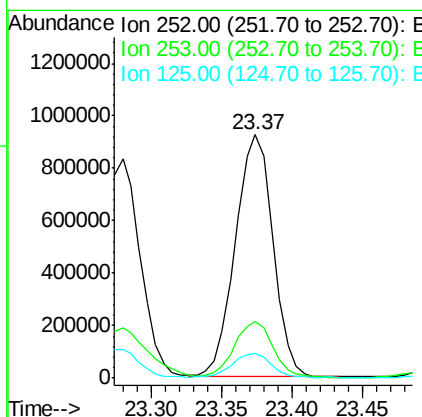
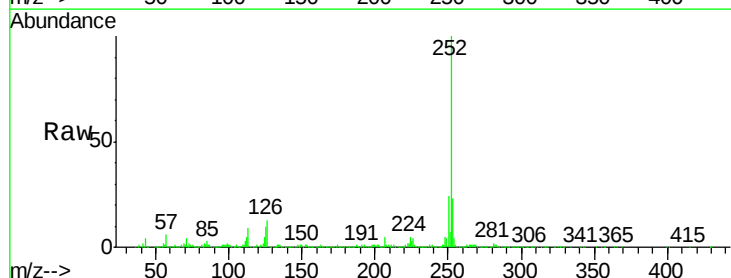
Manual Integrations

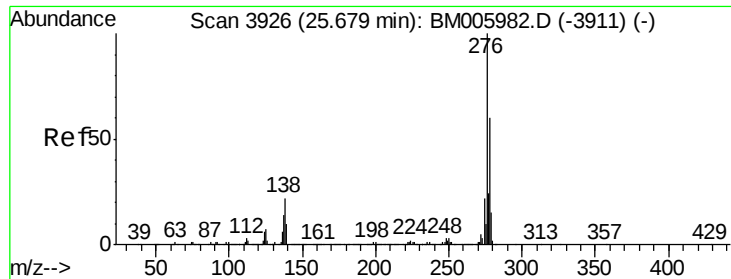
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#88  
Benzo(a)pyrene  
Concen: 19.66 ng/ul  
RT: 23.37 min Scan# 3534  
Delta R.T. 0.01 min  
Lab File: BM005983.D  
Acq: 25 Jun 2016 01:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.2  | 25.8  |
| 125     | 10.1  | 8.5   | 12.7  |





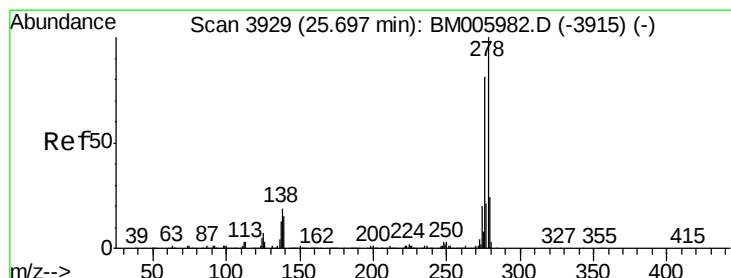
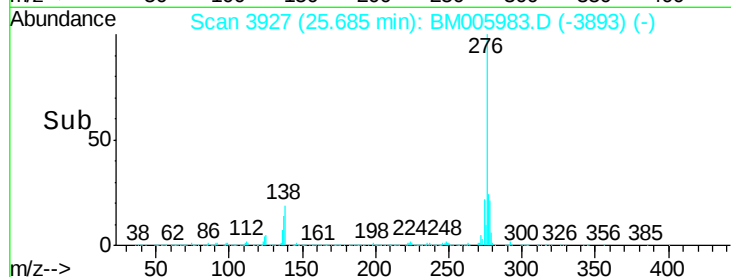
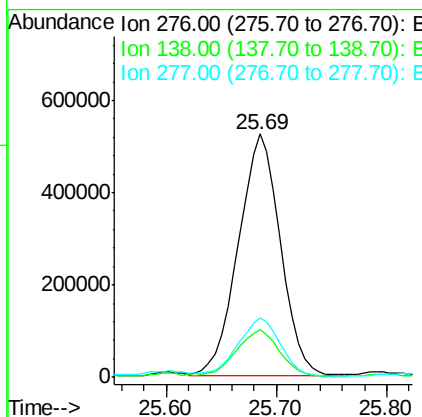
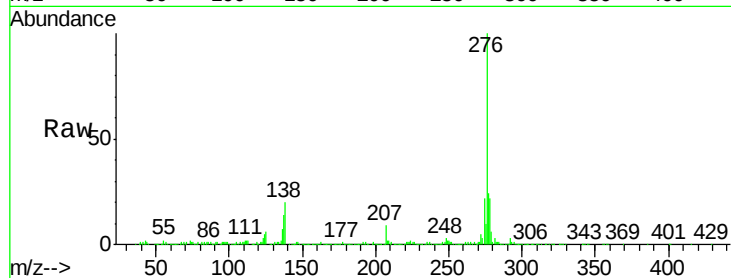
#89  
 Indeno(1,2,3-cd)pyrene  
 Concen: 14.28 ng/ul  
 RT: 25.69 min Scan# 3927  
 Delta R.T. -0.00 min  
 Lab File: BM005983.D  
 Acq: 25 Jun 2016 01:37

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Z31

Tgt Ion: 276 Resp: 1400506  
 Ion Ratio Lower Upper  
 276 100  
 138 19.6 18.1 27.1  
 277 24.2 19.4 29.2

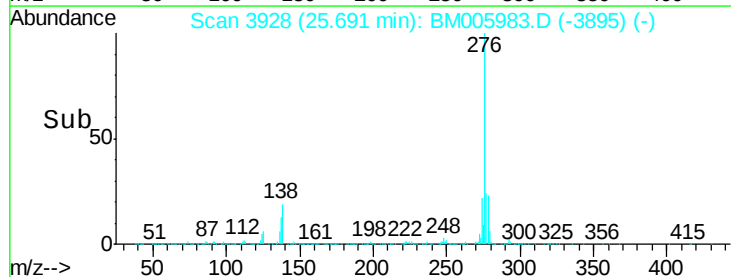
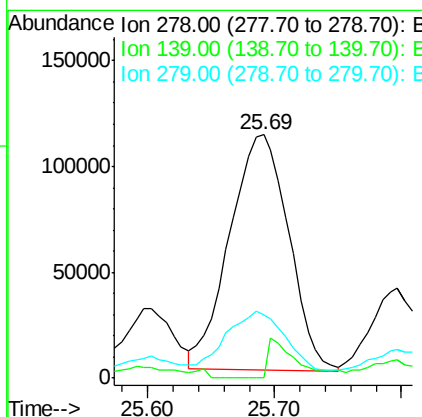
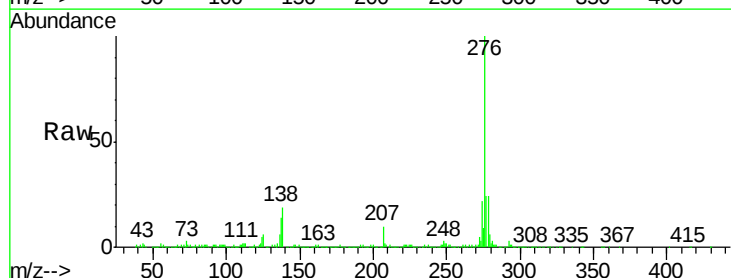
Manual Integrations

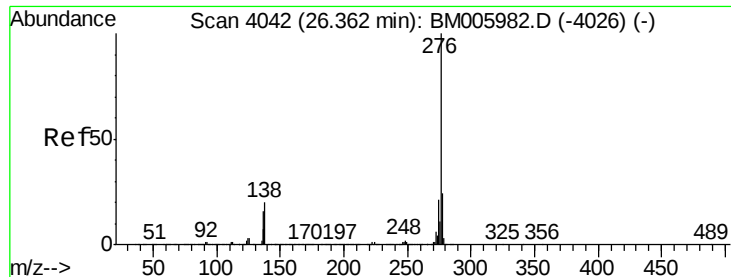
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#90  
 Dibenzo(a,h)anthracene  
 Concen: 4.42 ng/ul  
 RT: 25.69 min Scan# 3928  
 Delta R.T. -0.01 min  
 Lab File: BM005983.D  
 Acq: 25 Jun 2016 01:37

Tgt Ion: 278 Resp: 357907  
 Ion Ratio Lower Upper  
 278 100  
 139 0.0 12.6 19.0#  
 279 26.0 18.9 28.3





#91  
 Benzo(g,h,i)perylene  
 Concen: 14.45 ng/ul  
 RT: 26.36 min Scan# 4042  
 Delta R.T. -0.00 min  
 Lab File: BM005983.D  
 Acq: 25 Jun 2016 01:37

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Z31

Tgt Ion: 276 Resp: 1222008  
 Ion Ratio Lower Upper  
 276 100  
 138 18.8 17.2 25.8  
 277 24.3 18.7 28.1

Manual Integrations

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