

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081116\  
 Data File : BG023642.D  
 Acq On : 12 Aug 2016 3:51  
 Operator : UM/SJ  
 Sample : H4360-06 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR001-SS002-0612-01

Manual Integrations  
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 8/12/2016 5:56:32 PM

Quant Time: Aug 12 14:29:06 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Aug 12 04:34:52 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.11  | 152  | 183930   | 20.00 | ng/ul | -0.01    |
| 18) Naphthalene-d8        | 10.95 | 136  | 845783   | 20.00 | ng/ul | -0.01    |
| 35) Acenaphthene-d10      | 14.79 | 164  | 556158   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.55 | 188  | 1214928  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.88 | 240  | 1182887  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.28 | 264  | 1240261  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |      |       |       |
|--------------------------------|-------|-----|---------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.48  | 96  | 1446m   | 0.33 | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.27  | 99  | 65758   | 3.55 | ng/ul | -0.02 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.43  | 67  | 44382   | 3.74 | ng/ul | -0.02 |
| 9) 2-Chlorophenol-d4           | 7.64  | 132 | 47835   | 3.78 | ng/ul | -0.01 |
| 13) 4-Methylphenol-d8          | 8.83  | 113 | 50695   | 3.50 | ng/ul | -0.01 |
| 19) Nitrobenzene-d5            | 9.29  | 128 | 25111   | 3.77 | ng/ul | -0.01 |
| 22) 2-Nitrophenol-d4           | 10.02 | 143 | 29651   | 3.87 | ng/ul | -0.02 |
| 26) 2,4-Dichlorophenol-d3      | 10.58 | 165 | 51790   | 3.59 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 11.09 | 131 | 41455   | 2.45 | ng/ul | -0.01 |
| 43) Dimethylphthalate-d6       | 14.18 | 166 | 193045  | 4.24 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.48 | 160 | 229073  | 4.47 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 15.02 | 143 | 23567m  | 3.03 | ng/ul | 0.02  |
| 57) Fluorene-d10               | 15.78 | 176 | 174985  | 4.16 | ng/ul | -0.01 |
| 62) 4,6-Dinitro-2-methylphenol | 15.92 | 200 | 16750   | 2.15 | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.65 | 188 | 257942  | 4.71 | ng/ul | -0.01 |
| 76) Pyrene-d10                 | 19.94 | 212 | 279660  | 4.67 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 25.06 | 264 | 257875m | 4.59 | ng/ul | 0.01  |

## Target Compounds

|                            |       |     |         |       |        | Qvalue |
|----------------------------|-------|-----|---------|-------|--------|--------|
| 44) Dimethylphthalate      | 14.23 | 163 | 108799  | 2.41  | ng/ul  | 98     |
| 47) Acenaphthylene         | 14.51 | 152 | 108233  | 2.02  | ng/ul  | 96     |
| 69) Phenanthrene           | 17.59 | 178 | 638246  | 10.14 | ng/ul  | 96     |
| 71) Anthracene             | 17.68 | 178 | 97763   | 1.52  | ng/ul  | 96     |
| 74) Fluoranthene           | 19.61 | 202 | 999188  | 15.51 | ng/ul# | 93     |
| 77) Pyrene                 | 19.97 | 202 | 1330069 | 18.19 | ng/ul# | 94     |
| 80) Benzo(a)anthracene     | 21.85 | 228 | 606050  | 9.10  | ng/ul# | 95     |
| 82) Chrysene               | 21.92 | 228 | 691935  | 11.42 | ng/ul# | 95     |
| 85) Benzo(b)fluoranthene   | 24.20 | 252 | 677769m | 9.61  | ng/ul  |        |
| 86) Benzo(k)fluoranthene   | 24.26 | 252 | 231190m | 3.33  | ng/ul  |        |
| 88) Benzo(a)pyrene         | 25.12 | 252 | 598496m | 8.79  | ng/ul  |        |
| 89) Indeno(1,2,3-cd)pyrene | 29.20 | 276 | 367105m | 4.59  | ng/ul  |        |
| 90) Dibenzo(a,h)anthracene | 29.21 | 278 | 114236m | 1.67  | ng/ul  |        |
| 91) Benzo(g,h,i)perylene   | 30.42 | 276 | 384440m | 5.79  | ng/ul  |        |

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

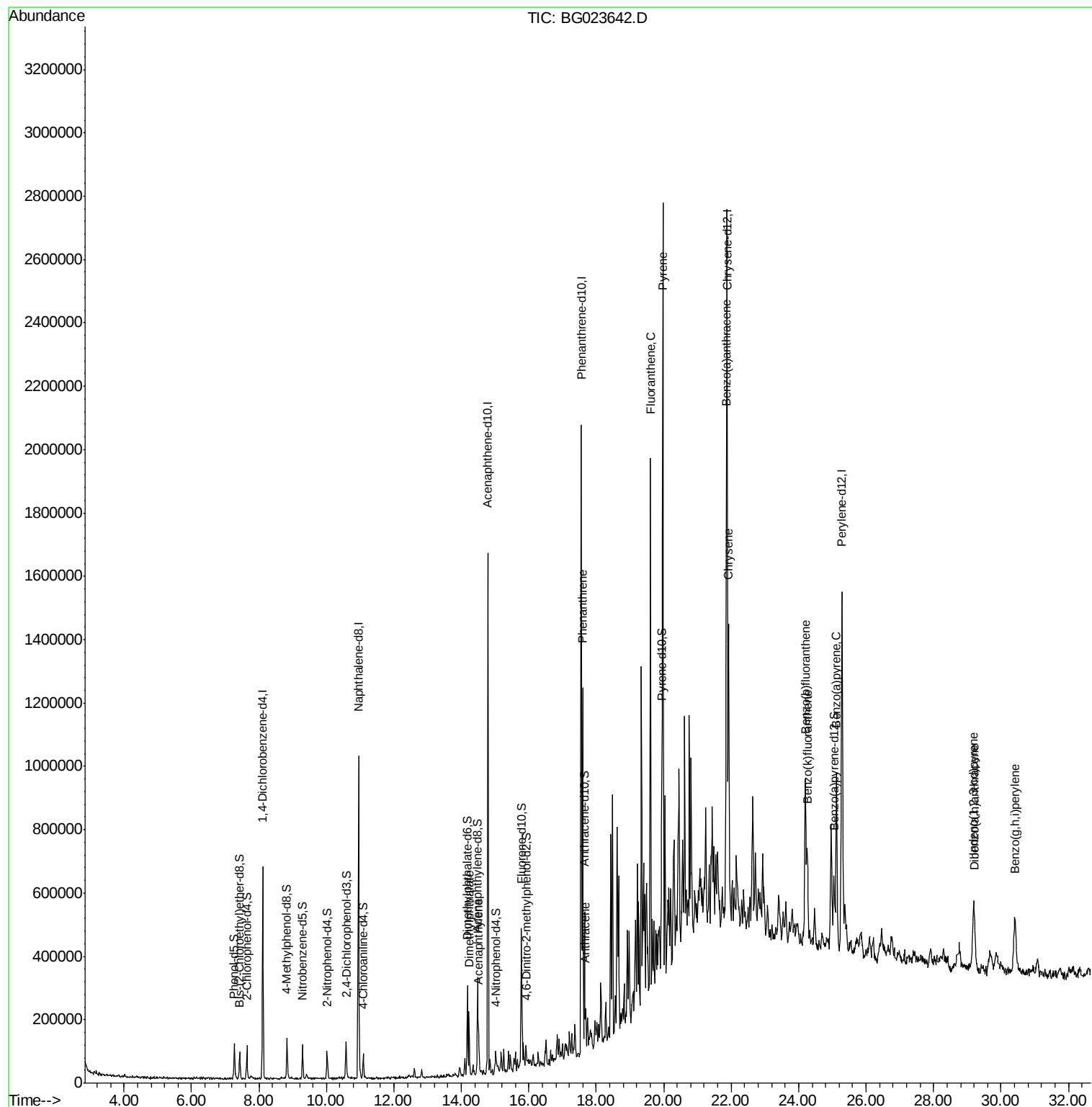
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081116\  
Data File : BG023642.D  
Acq On : 12 Aug 2016 3:51  
Operator : UM/SJ  
Sample : H4360-06 5X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

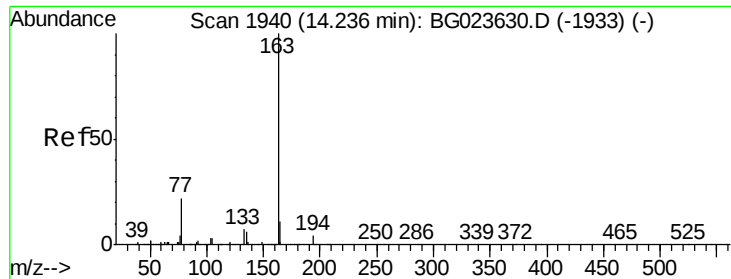
Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS002-0612-01

Manual Integrations  
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Quant Time: Aug 12 14:29:06 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Aug 12 04:34:52 2016  
Response via : Initial Calibration





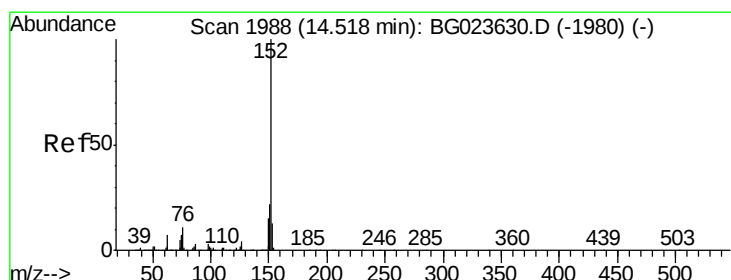
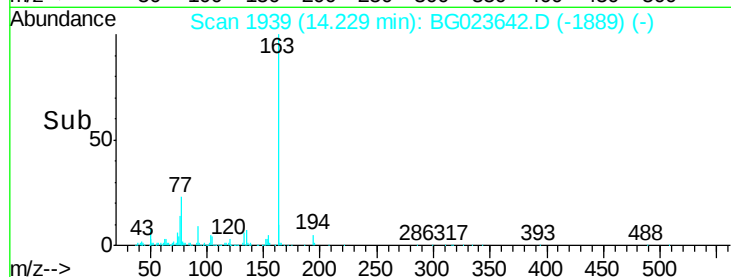
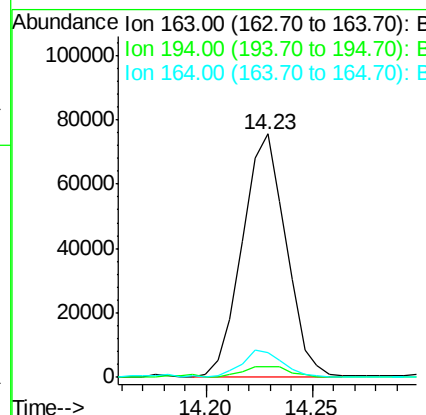
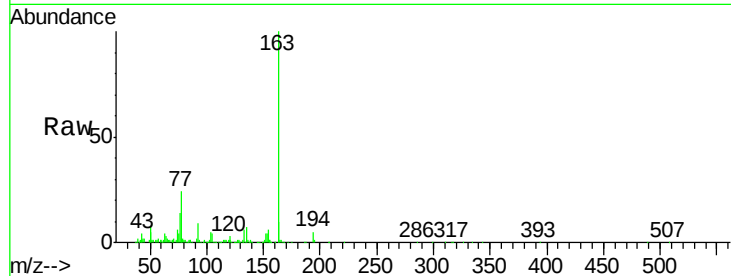
#44  
Dimethylphthalate  
Concen: 2.41 ng/ul  
RT: 14.23 min Scan# 1939  
Delta R.T. -0.01 min  
Lab File: BG023642.D  
Acq: 12 Aug 2016 3:51

Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS002-0612-01

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 163     | 100   |            |            |
| 194     | 4.6   | 3.4        | 5.2        |
| 164     | 10.2  | 8.8        | 13.2       |

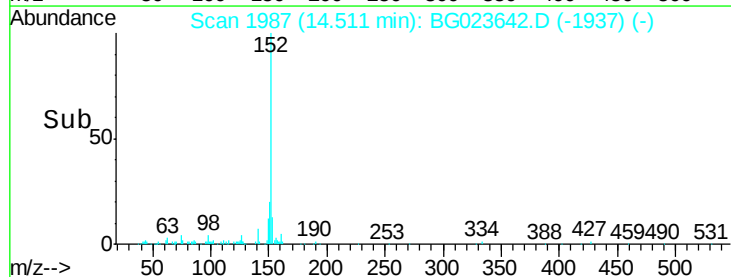
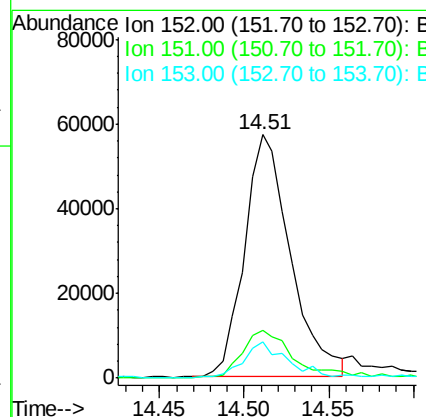
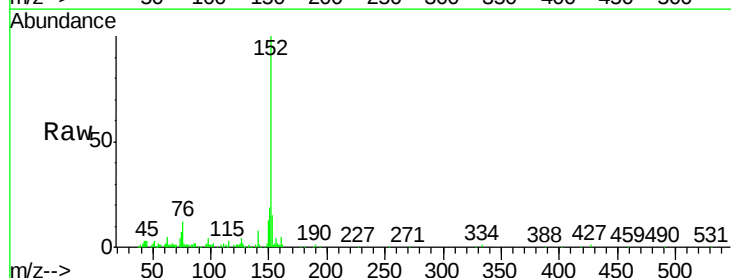
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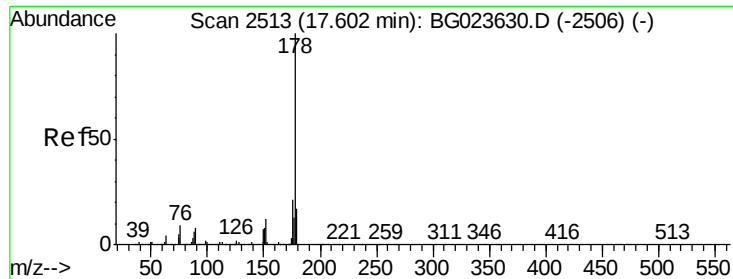
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#47  
Acenaphthylene  
Concen: 2.02 ng/ul  
RT: 14.51 min Scan# 1987  
Delta R.T. -0.01 min  
Lab File: BG023642.D  
Acq: 12 Aug 2016 3:51

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 152     | 100   |            |            |
| 151     | 19.4  | 17.5       | 26.3       |
| 153     | 14.7  | 11.1       | 16.7       |





#69

Phenanthrene

Concen: 10.14 ng/ul

RT: 17.59 min Scan# 2512

Delta R.T. -0.01 min

Lab File: BG023642.D

Acq: 12 Aug 2016 3:51

Instrument :

BNA\_G

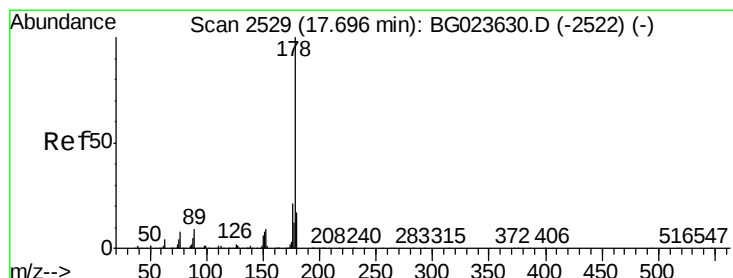
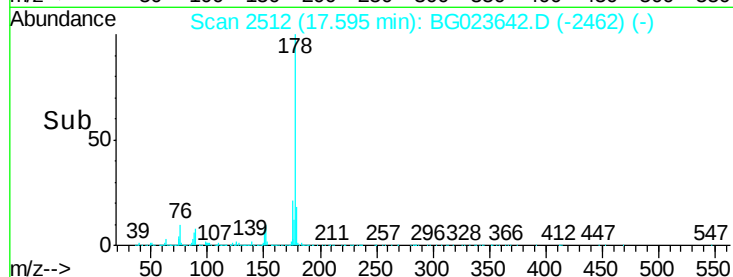
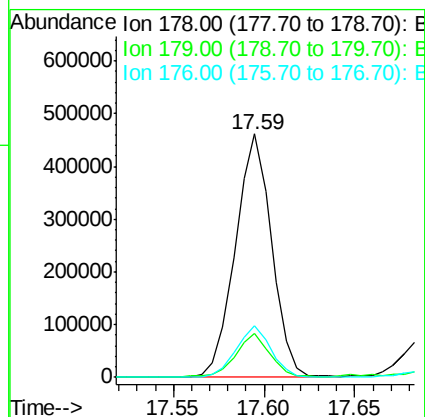
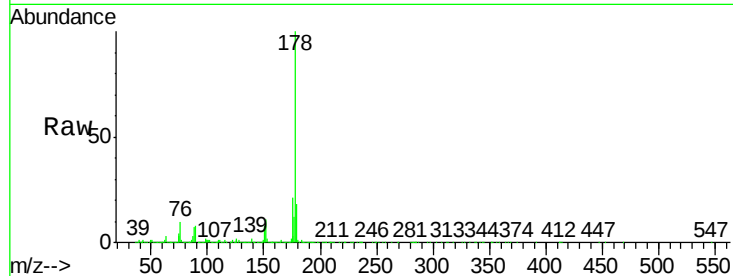
ClientSampleId :

PR001-SS002-0612-01

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 638246 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 18.0  | 12.9  | 19.3   |
| 176       | 21.4  | 15.8  | 23.8   |

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#71

Anthracene

Concen: 1.52 ng/ul

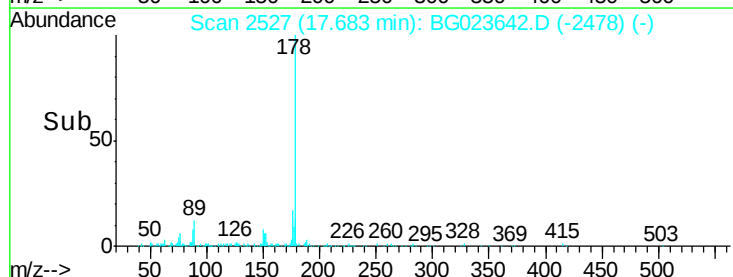
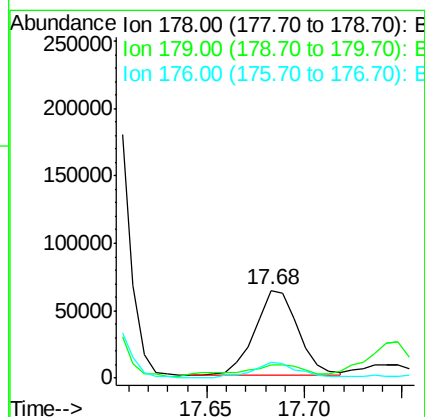
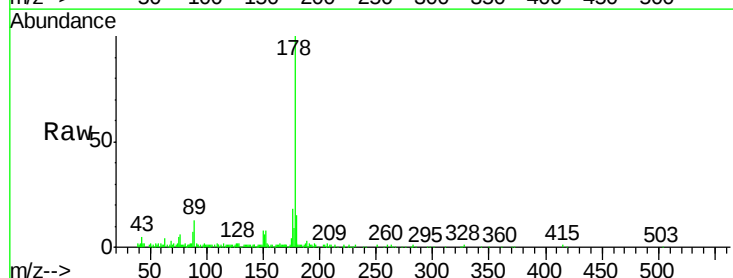
RT: 17.68 min Scan# 2527

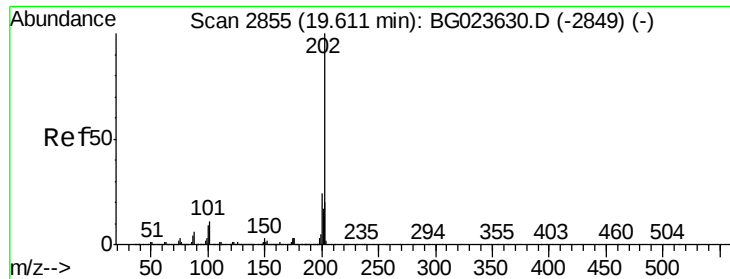
Delta R.T. -0.01 min

Lab File: BG023642.D

Acq: 12 Aug 2016 3:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 97763 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 14.5  | 12.3  | 18.5  |
| 176       | 17.8  | 16.3  | 24.5  |





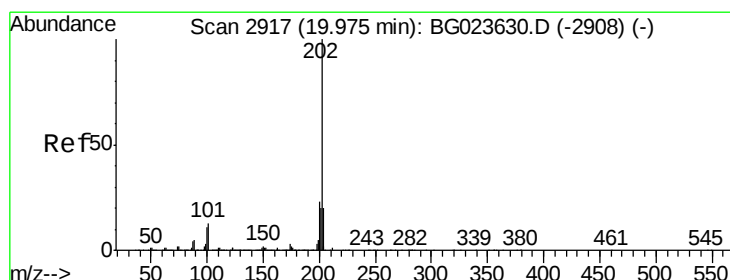
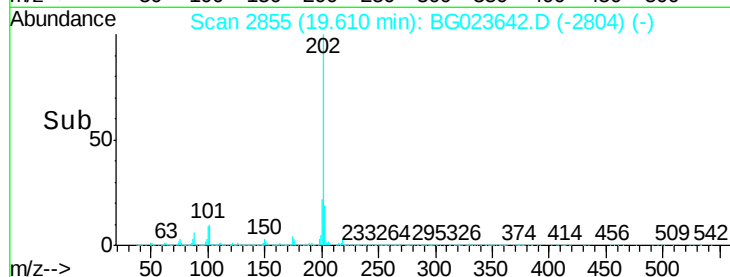
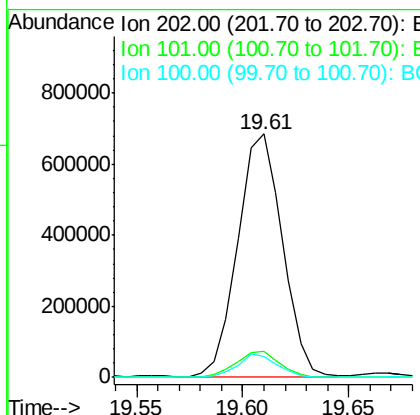
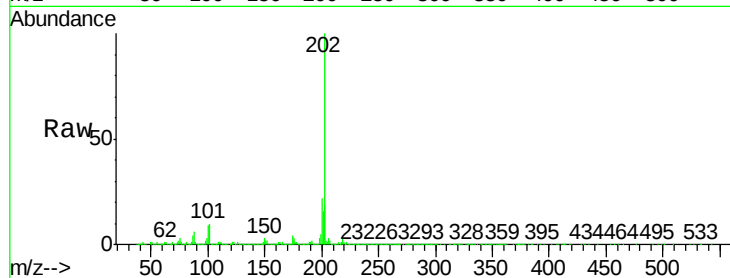
#74  
Fluoranthene  
Concen: 15.51 ng/ul  
RT: 19.61 min Scan# 2855  
Delta R.T. -0.00 min  
Lab File: BG023642.D  
Acq: 12 Aug 2016 3:51

Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS002-0612-01

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 10.4  | 10.6       | 16.0#      |
| 100     | 8.7   | 8.7        | 13.1#      |

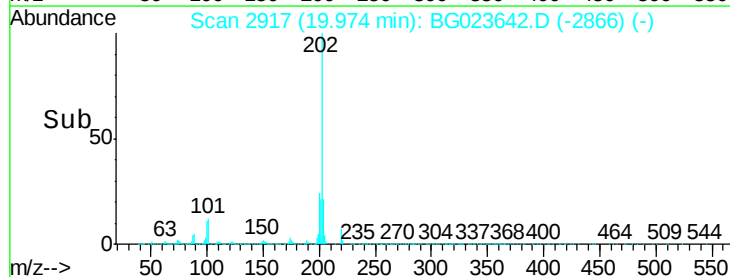
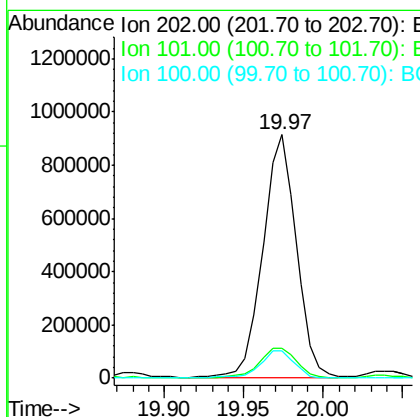
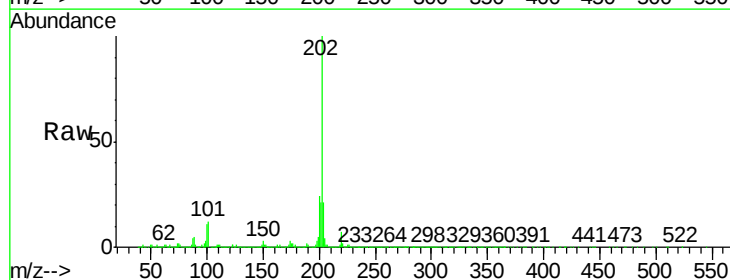
Manual Integrations  
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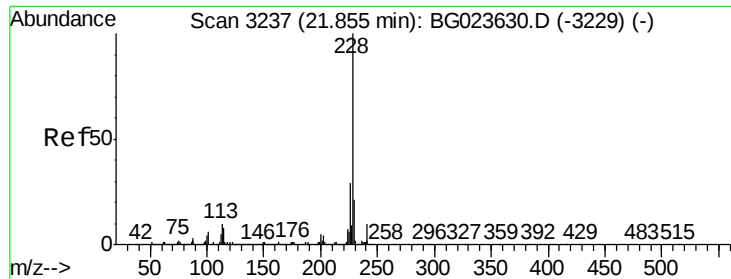
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#77  
Pyrene  
Concen: 18.19 ng/ul  
RT: 19.97 min Scan# 2917  
Delta R.T. -0.00 min  
Lab File: BG023642.D  
Acq: 12 Aug 2016 3:51

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 12.3  | 12.5       | 18.7#      |
| 100     | 11.4  | 10.2       | 15.4       |





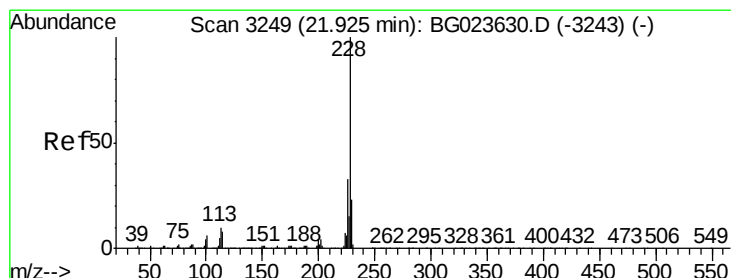
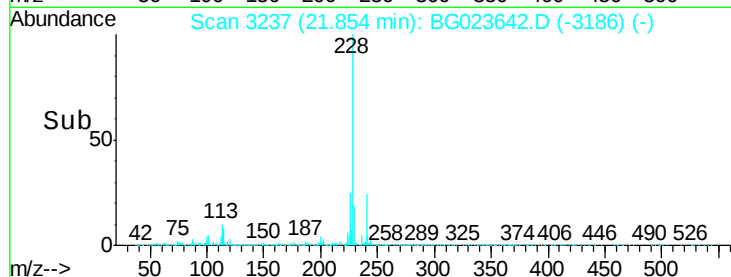
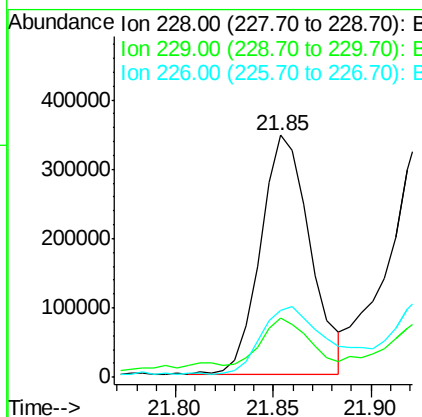
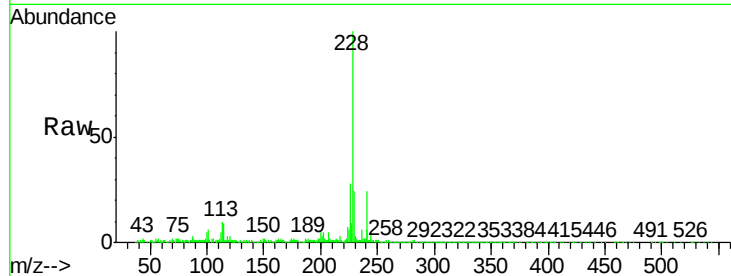
#80  
Benzo(a)anthracene  
Concen: 9.10 ng/ul  
RT: 21.85 min Scan# 3237  
Delta R.T. -0.00 min  
Lab File: BG023642.D  
Acq: 12 Aug 2016 3:51

Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS002-0612-01

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 24.4  | 15.4       | 23.2# |
| 226     | 27.9  | 22.8       | 34.2  |

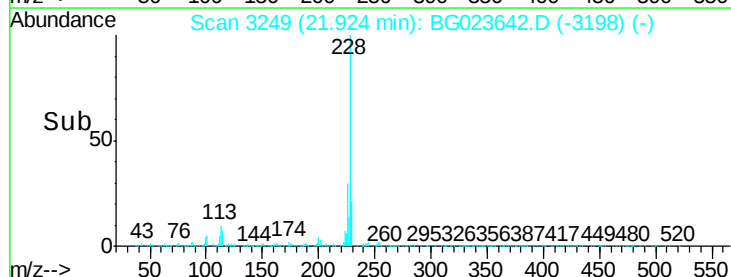
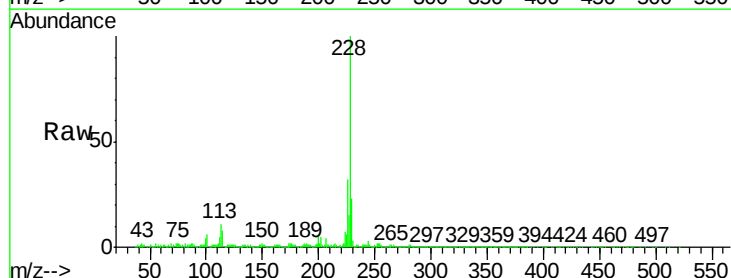
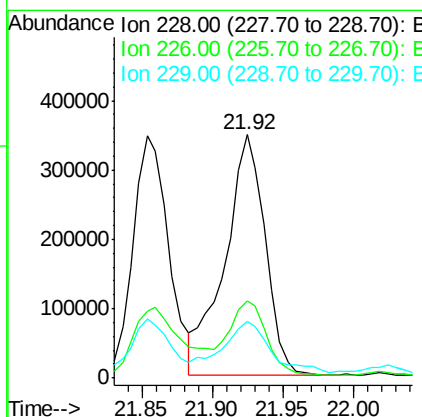
Manual Integrations  
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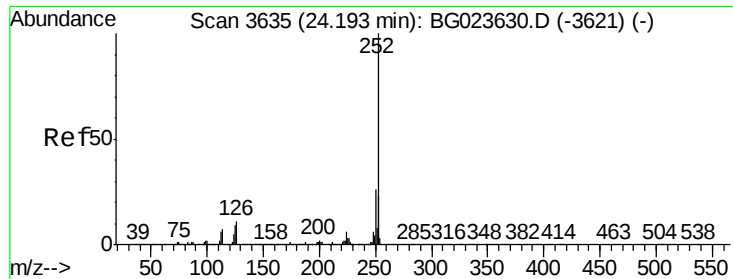
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#82  
Chrysene  
Concen: 11.42 ng/ul  
RT: 21.92 min Scan# 3249  
Delta R.T. -0.00 min  
Lab File: BG023642.D  
Acq: 12 Aug 2016 3:51

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 226     | 31.6  | 24.2       | 36.4  |
| 229     | 23.3  | 15.0       | 22.6# |





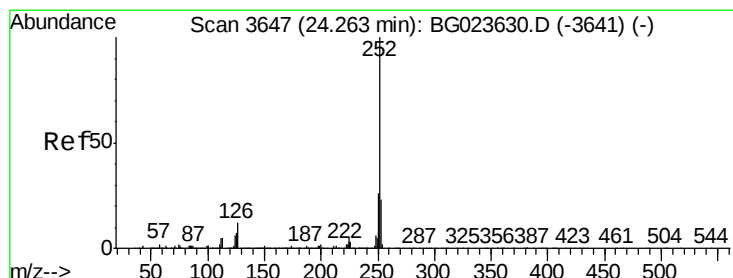
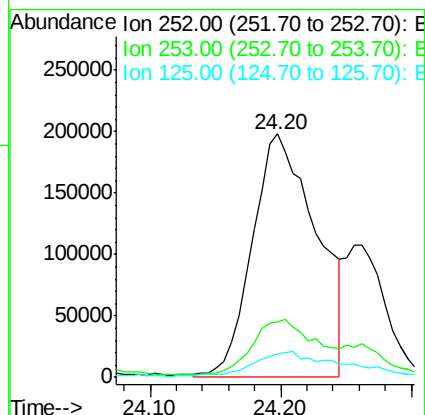
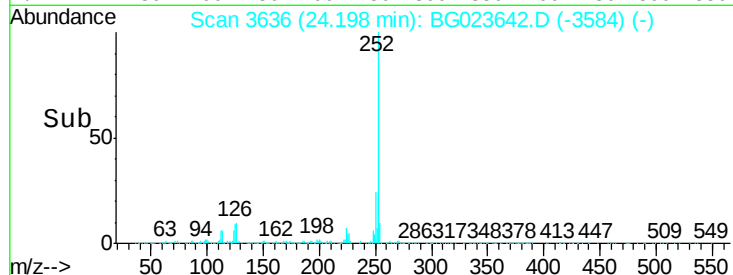
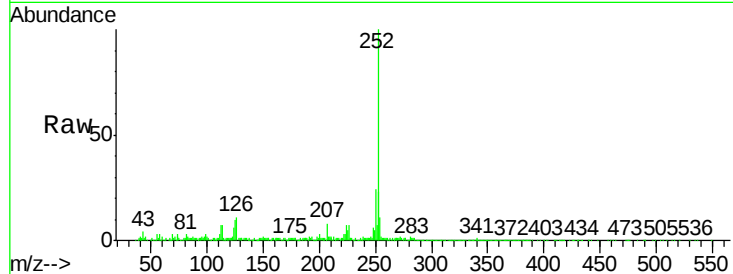
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Benzo(b)fluoranthene  
Concen: 9.61 ng/ul m  
RT: 24.20 min Scan# 3636  
Delta R.T. 0.00 min  
Lab File: BG023642.D  
Acq: 12 Aug 2016 3:51

Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS002-0612-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.2  | 27.2  |
| 125     | 9.5   | 10.8  | 16.2# |

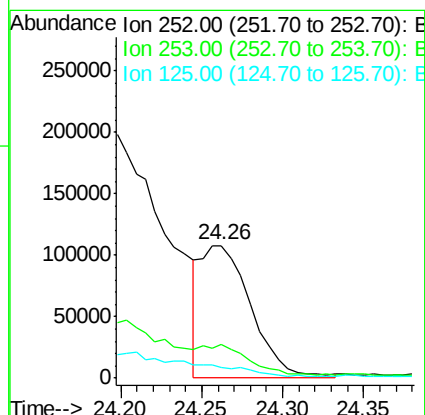
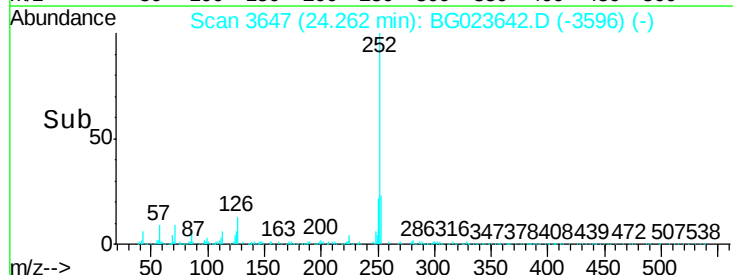
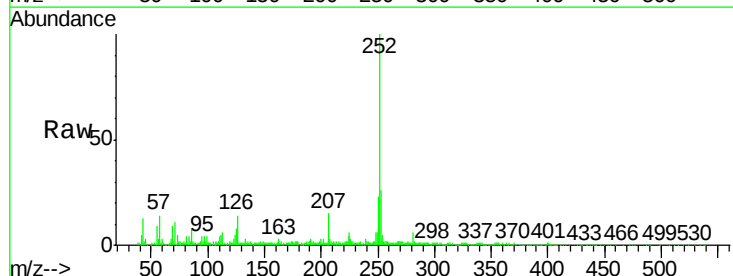
Manual Integrations  
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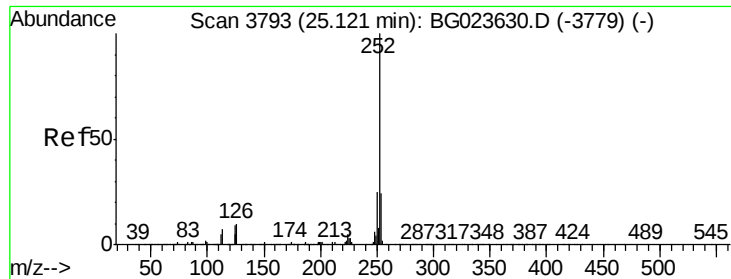
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#86  
Benzo(k)fluoranthene  
Concen: 3.33 ng/ul m  
RT: 24.26 min Scan# 3647  
Delta R.T. -0.00 min  
Lab File: BG023642.D  
Acq: 12 Aug 2016 3:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.7  | 15.8  | 23.6# |
| 125     | 7.9   | 10.6  | 16.0# |





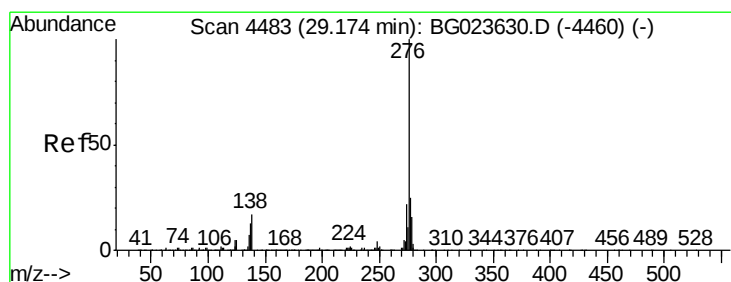
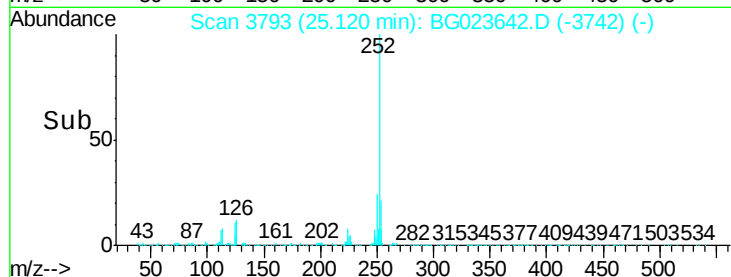
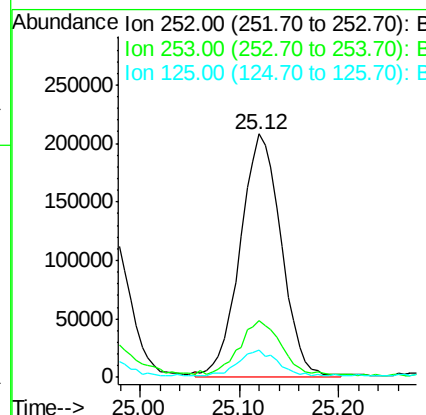
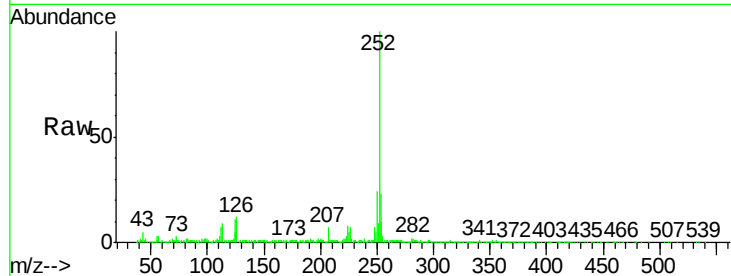
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Benzo(a)pyrene  
Concen: 8.79 ng/ul m  
RT: 25.12 min Scan# 3793  
Delta R.T. -0.00 min  
Lab File: BG023642.D  
Acq: 12 Aug 2016 3:51

Instrument :  
BNA\_G  
ClientSampleId :  
PR001-SS002-0612-01

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 23.4  | 19.0       | 28.4       |
| 125     | 11.1  | 12.0       | 18.0#      |

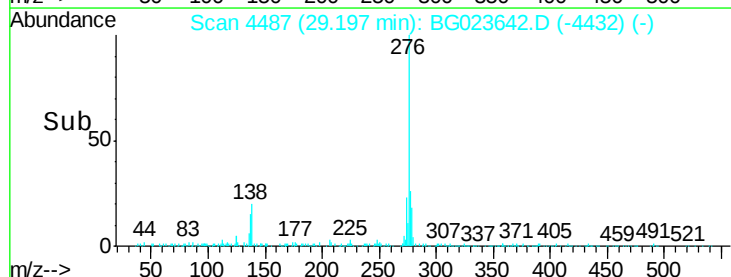
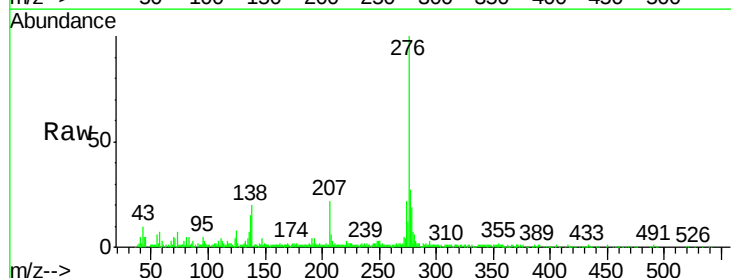
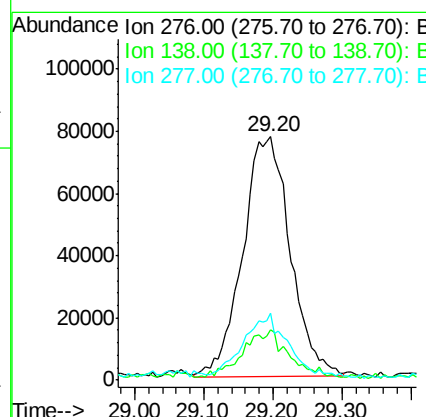
Manual Integrations  
APPROVED

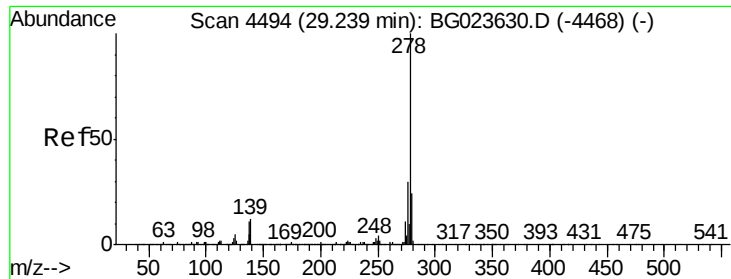
sohil  
8/12/2016 5:56:32 PM



#89  
Indeno(1,2,3-cd)pyrene  
Concen: 4.59 ng/ul m  
RT: 29.20 min Scan# 4487  
Delta R.T. 0.02 min  
Lab File: BG023642.D  
Acq: 12 Aug 2016 3:51

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 20.4  | 20.8       | 31.2#      |
| 277     | 27.4  | 17.6       | 26.4#      |





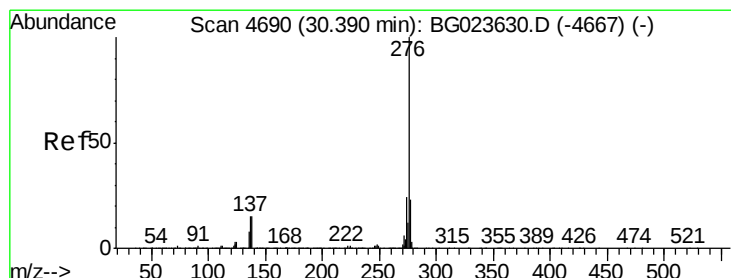
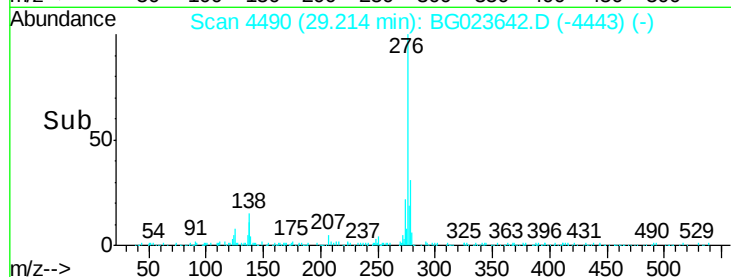
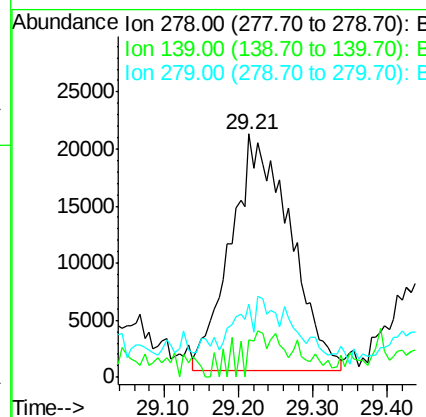
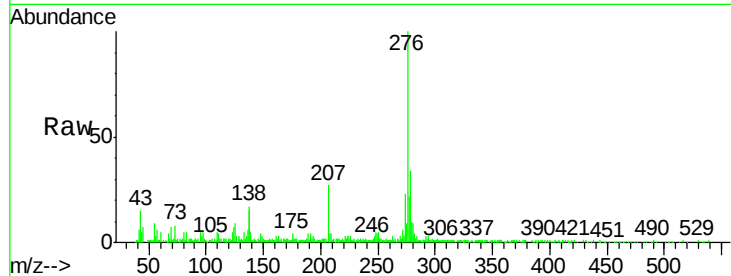
#90  
 Dibenzo(a,h)anthracene  
 Concen: 1.67 ng/ul m  
 RT: 29.21 min Scan# 4490  
 Delta R.T. -0.02 min  
 Lab File: BG023642.D  
 Acq: 12 Aug 2016 3:51

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PR001-SS002-0612-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 15.3  | 16.3  | 24.5# |
| 279     | 30.2  | 19.1  | 28.7# |

Manual Integrations  
 APPROVED

sohil  
 8/12/2016 5:56:32 PM



#91  
 Benzo(g,h,i)perylene  
 Concen: 5.79 ng/ul m  
 RT: 30.42 min Scan# 4695  
 Delta R.T. 0.03 min  
 Lab File: BG023642.D  
 Acq: 12 Aug 2016 3:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.5  | 22.1  | 33.1# |
| 277     | 23.7  | 17.0  | 25.4  |

