

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG122515\  
 Data File : BG020511.D  
 Acq On : 25 Dec 2015 19:46  
 Operator : UM/SJ  
 Sample : G4847-01  
 Misc :  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N66

Manual Integrations  
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 12/28/2015 6:06:09 PM

Quant Time: Jan 04 07:51:26 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG122415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Dec 26 02:12:58 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.08  | 152  | 18233    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.90 | 136  | 78856    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.71 | 164  | 57058    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.45 | 188  | 150071   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.72 | 240  | 190130   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.99 | 264  | 179788   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds    | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 3) 1,4-Dioxane-d8              | 3.45  | 96   | 448      | 1.36  | ng/uL | 0.00     |
| 5) Phenol-d5                   | 7.24  | 99   | 9581     | 6.55  | ng/ul | 0.00     |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.39  | 67   | 26672    | 30.77 | ng/ul | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.61  | 132  | 27439    | 24.45 | ng/ul | 0.00     |
| 13) 4-Methylphenol-d8          | 8.79  | 113  | 19556    | 15.89 | ng/ul | 0.00     |
| 19) Nitrobenzene-d5            | 9.24  | 128  | 18242    | 29.51 | ng/ul | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.97  | 143  | 21455    | 30.53 | ng/ul | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.51 | 165  | 37654    | 27.68 | ng/ul | 0.00     |
| 29) 4-Chloroaniline-d4         | 0.00  | 131  | 0d       | 0.00  | ng/ul | 0.00     |
| 44) Dimethylphthalate-d6       | 14.11 | 166  | 151306   | 32.17 | ng/ul | 0.00     |
| 47) Acenaphthylene-d8          | 14.40 | 160  | 171586   | 31.49 | ng/ul | 0.00     |
| 52) 4-Nitrophenol-d4           | 14.92 | 143  | 2753     | 3.51  | ng/ul | 0.00     |
| 58) Fluorene-d10               | 15.70 | 176  | 136935   | 32.20 | ng/ul | 0.00     |
| 63) 4,6-Dinitro-2-methylphenol | 15.81 | 200  | 25115    | 25.25 | ng/ul | 0.00     |
| 71) Anthracene-d10             | 17.55 | 188  | 228045   | 32.44 | ng/ul | 0.00     |
| 79) Pyrene-d10                 | 19.83 | 212  | 276190   | 33.55 | ng/ul | 0.00     |
| 90) Benzo(a)pyrene-d12         | 24.76 | 264  | 299401   | 32.94 | ng/ul | 0.00     |

| Target Compounds        | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------|-------|------|----------|--------|--------|--------|
| 28) Naphthalene         | 10.95 | 128  | 667323   | 159.19 | ng/ul  | 97     |
| 34) 2-Methylnaphthalene | 12.54 | 142  | 80699    | 26.02  | ng/ul  | 98     |
| 41) 1,1'-Biphenyl       | 13.55 | 154  | 31174    | 7.08   | ng/ul# | 92     |
| 45) Dimethylphthalate   | 14.16 | 163  | 8902     | 1.86   | ng/ul# | 98     |
| 48) Acenaphthylene      | 14.43 | 152  | 17887    | 3.12   | ng/ul  | 98     |
| 50) Acenaphthene        | 14.77 | 153  | 148675   | 38.40  | ng/ul  | 96     |
| 54) Dibenzofuran        | 15.11 | 168  | 99483    | 17.27  | ng/ul  | 98     |
| 59) Fluorene            | 15.75 | 166  | 91268    | 19.55  | ng/ul  | 96     |
| 70) Phenanthrene        | 17.49 | 178  | 185274   | 22.19  | ng/ul  | 99     |
| 72) Anthracene          | 17.59 | 178  | 10862m   | 1.27   | ng/ul  |        |
| 75) Carbazole           | 17.86 | 167  | 82229    | 11.43  | ng/ul  | 98     |
| 77) Fluoranthene        | 19.50 | 202  | 23574    | 2.24   | ng/ul  | 98     |

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

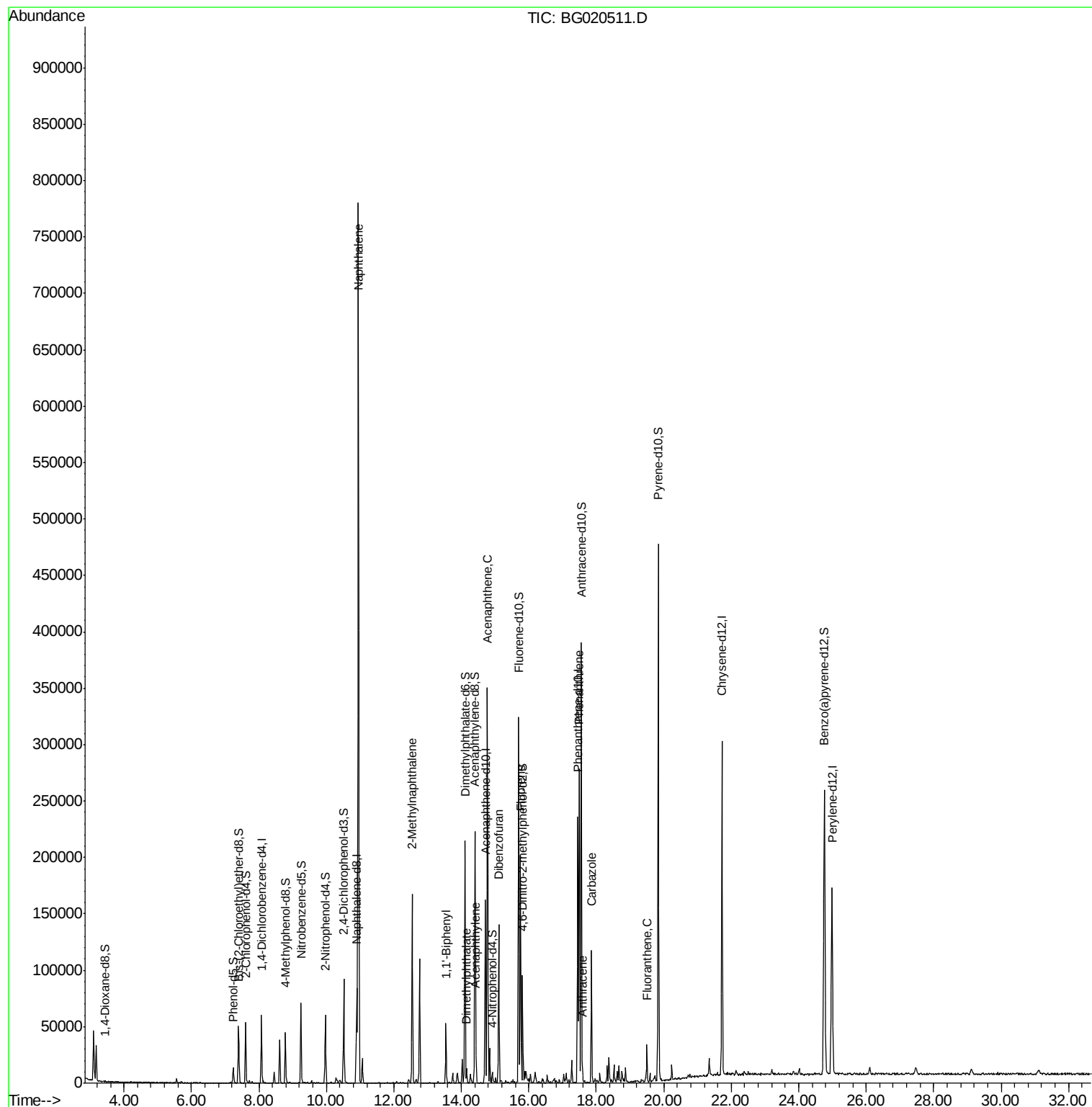
Data Path : Z:\HPCHEM1\BNA\_G\Data\BG122515\  
Data File : BG020511.D  
Acq On : 25 Dec 2015 19:46  
Operator : UM/SJ  
Sample : G4847-01  
Misc :  
ALS Vial : 50 Sample Multiplier: 1

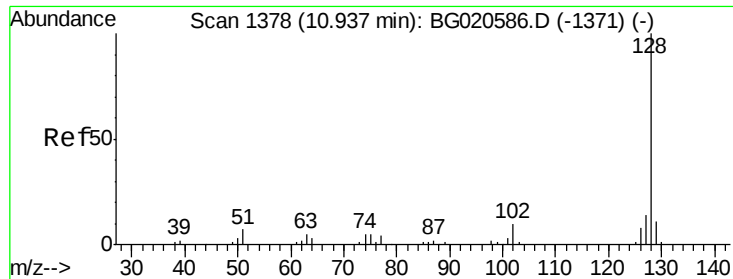
Instrument :  
BNA\_G  
ClientSampleId :  
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Quant Time: Jan 04 07:51:26 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG122415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sat Dec 26 02:12:58 2015  
Response via : Initial Calibration





#28

Naphthalene

Concen: 159.19 ng/ul

RT: 10.95 min Scan# 1380

Delta R.T. 0.01 min

Lab File: BG020511.D

Acq: 25 Dec 2015 19:46

Instrument :

BNA\_G

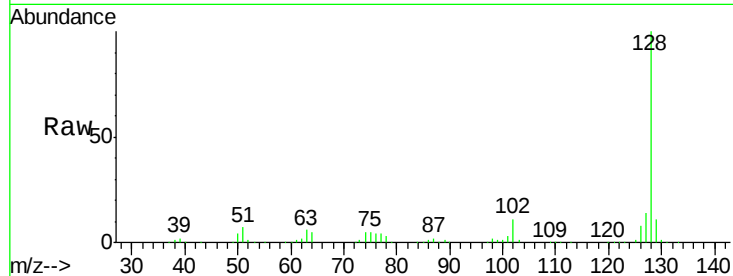
ClientSampleId :

D9N66

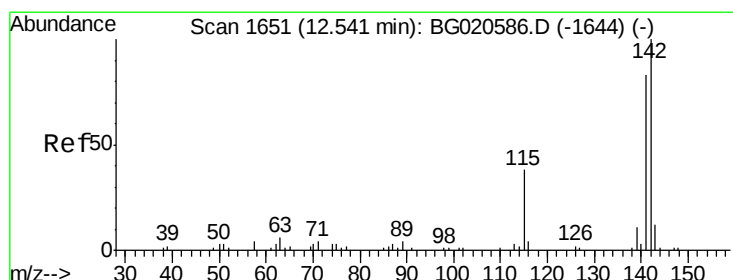
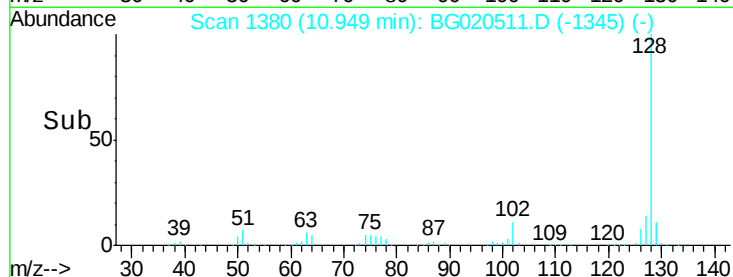
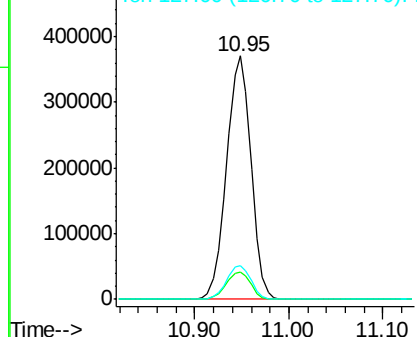
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 667323 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 11.5  | 8.6   | 12.8   |
| 127       | 13.9  | 10.1  | 15.1   |

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Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 26.02 ng/ul

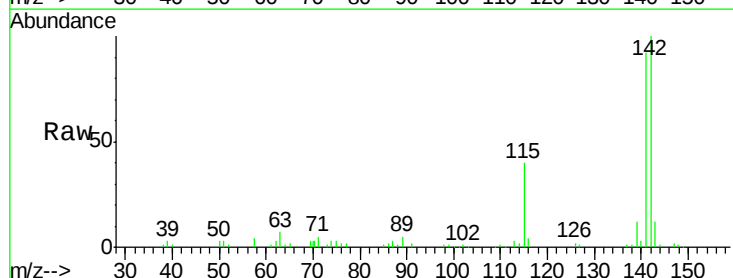
RT: 12.54 min Scan# 1651

Delta R.T. -0.00 min

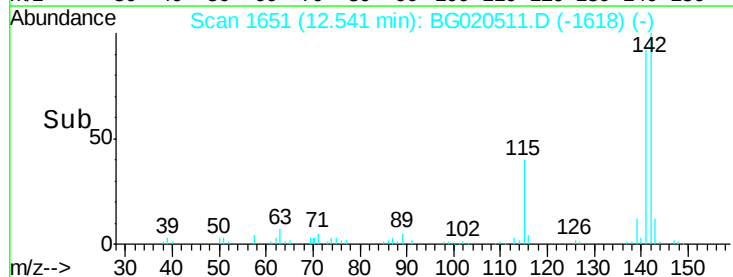
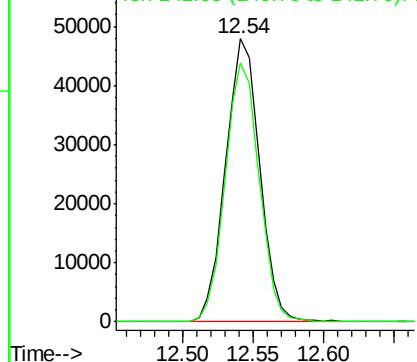
Lab File: BG020511.D

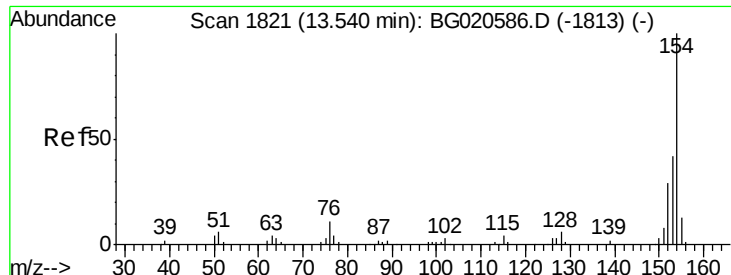
Acq: 25 Dec 2015 19:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 80699 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 91.7  | 74.9  | 112.3 |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E





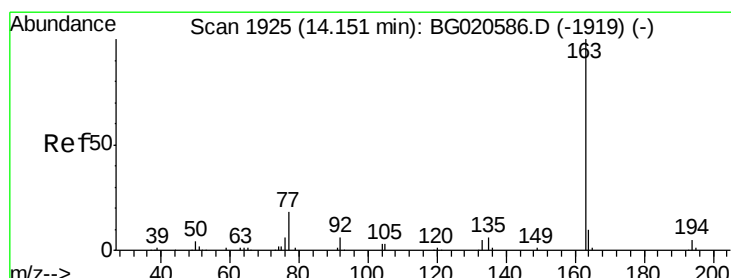
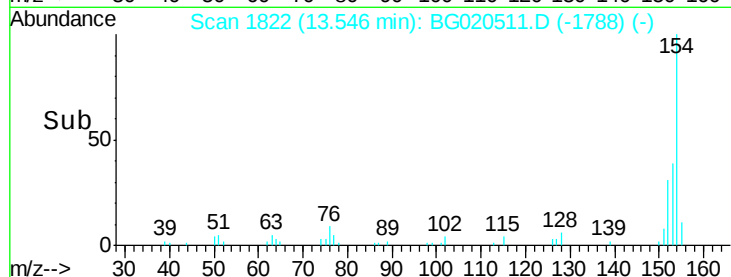
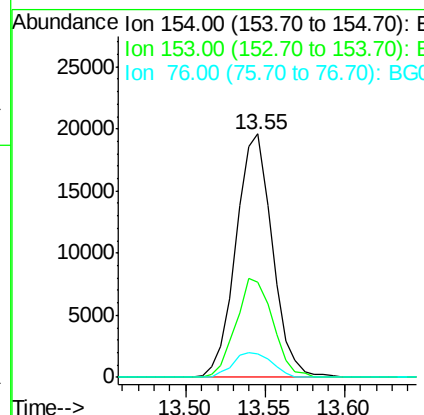
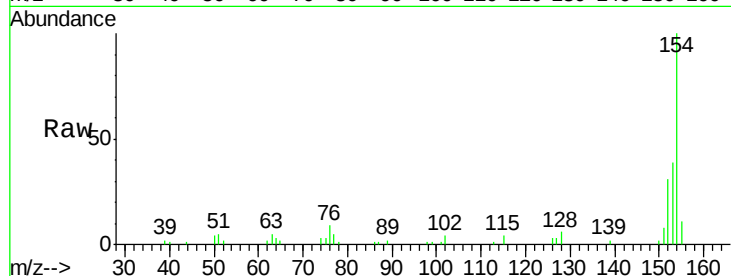
#41  
 1,1'-Biphenyl  
 Concen: 7.08 ng/ul  
 RT: 13.55 min Scan# 1822  
 Delta R.T. 0.00 min  
 Lab File: BG020511.D  
 Acq: 25 Dec 2015 19:46

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N66

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 31174 |       |       |
| 153     | 39.3  | 35.5  | 53.3  |       |
| 76      | 9.4   | 10.4  | 15.6  |       |

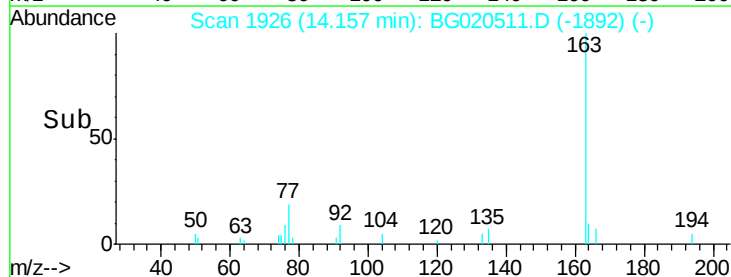
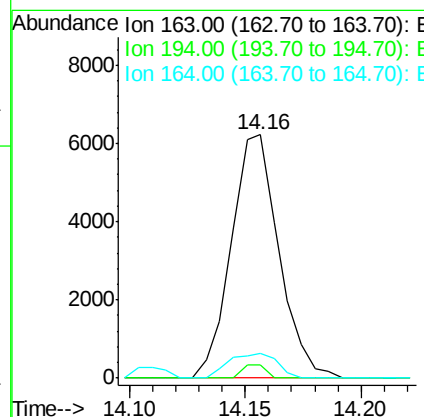
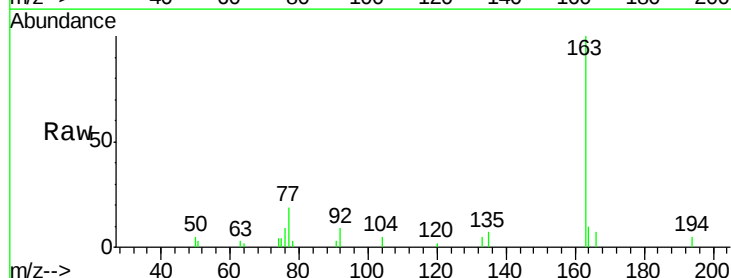
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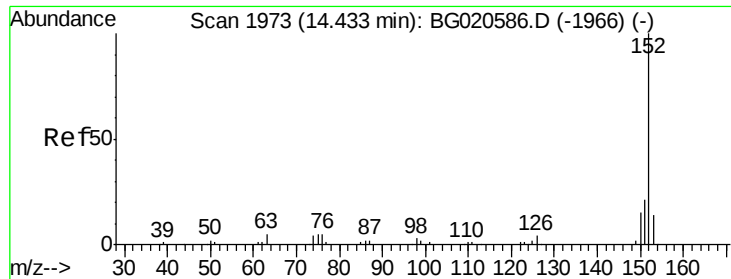
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#45  
 Dimethylphthalate  
 Concen: 1.86 ng/ul  
 RT: 14.16 min Scan# 1926  
 Delta R.T. 0.00 min  
 Lab File: BG020511.D  
 Acq: 25 Dec 2015 19:46

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 163     | 100   | 8902 |       |       |
| 194     | 5.3   | 3.5  | 5.3   |       |
| 164     | 10.2  | 7.7  | 11.5  |       |





#48

Acenaphthylene

Concen: 3.12 ng/ul

RT: 14.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: BG020511.D

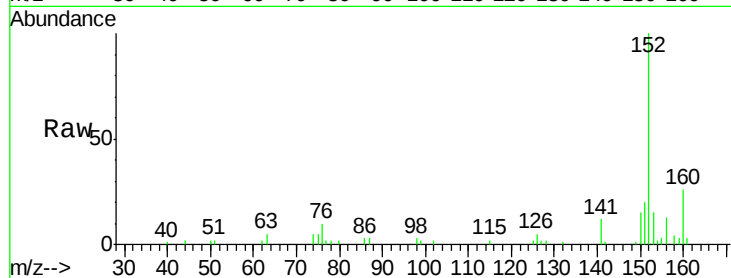
Acq: 25 Dec 2015 19:46

Instrument :

BNA\_G

ClientSampleId :

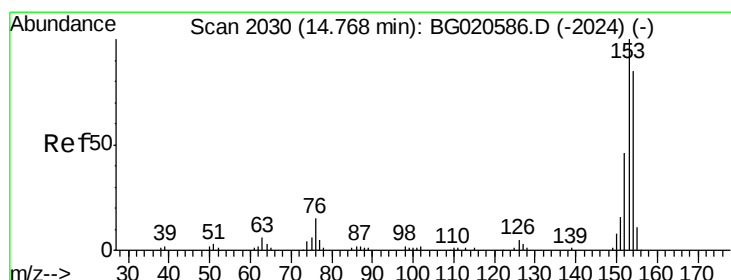
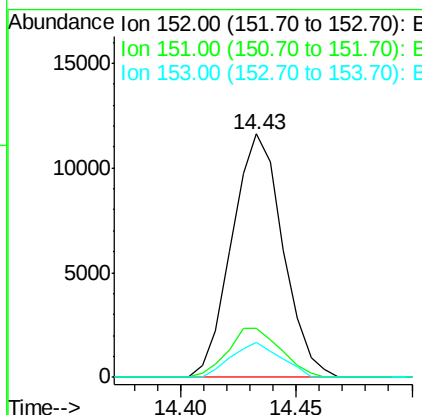
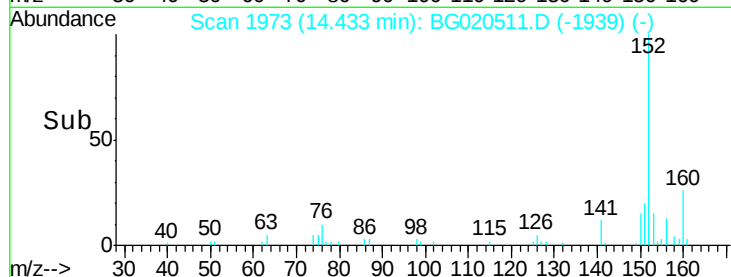
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 16.4  | 24.6  |
| 153     | 14.6  | 10.4  | 15.6  |

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#50

Acenaphthene

Concen: 38.40 ng/ul

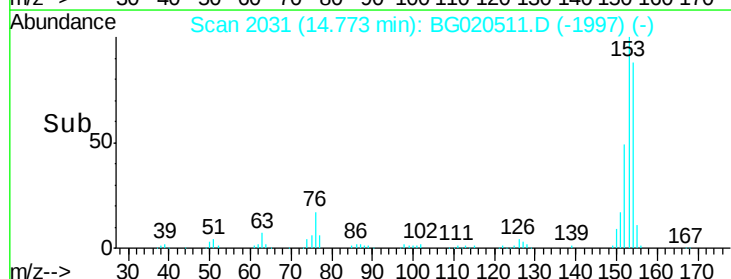
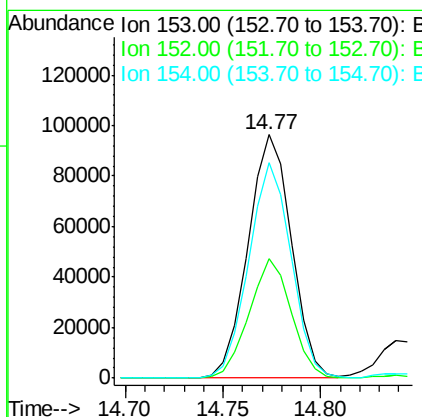
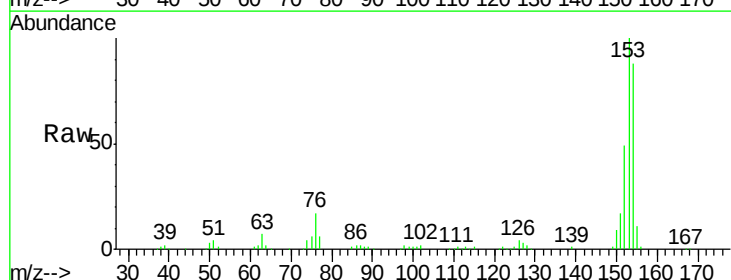
RT: 14.77 min Scan# 2031

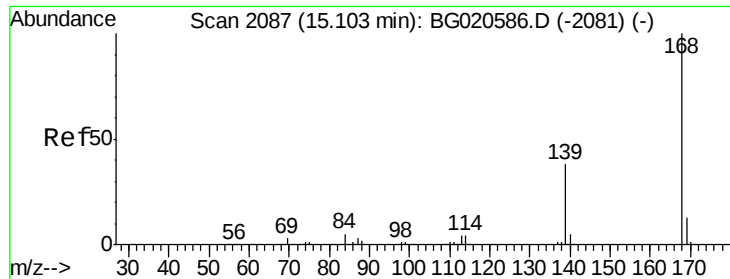
Delta R.T. 0.00 min

Lab File: BG020511.D

Acq: 25 Dec 2015 19:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 49.1  | 37.6  | 56.4  |
| 154     | 88.5  | 67.9  | 101.9 |





#54

Dibenzenofuran

Concen: 17.27 ng/ul

RT: 15.11 min Scan# 2088

Delta R.T. 0.00 min

Lab File: BG020511.D

Acq: 25 Dec 2015 19:46

Instrument :

BNA\_G

ClientSampleId :

D9N66

Tgt Ion:168 Resp: 99483

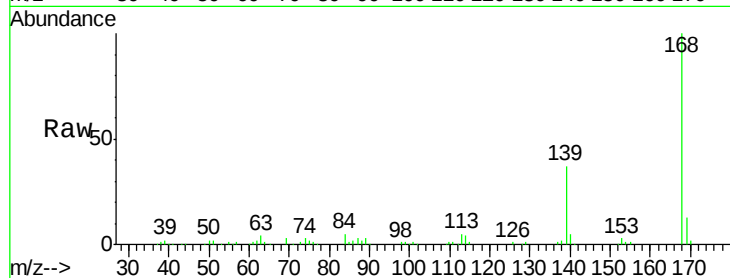
Ion Ratio Lower Upper

168 100

139 37.2 30.5 45.7

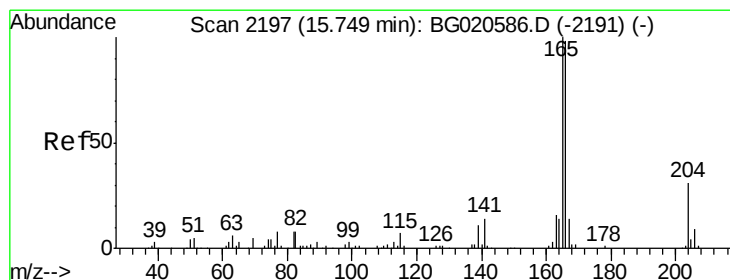
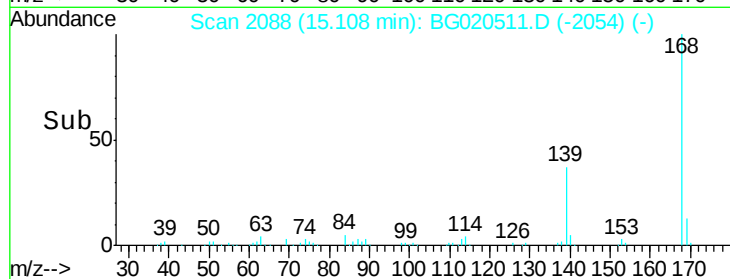
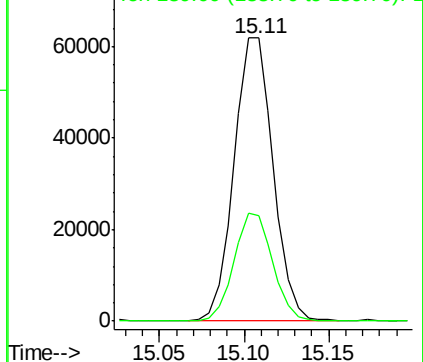
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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 19.55 ng/ul

RT: 15.75 min Scan# 2198

Delta R.T. 0.00 min

Lab File: BG020511.D

Acq: 25 Dec 2015 19:46

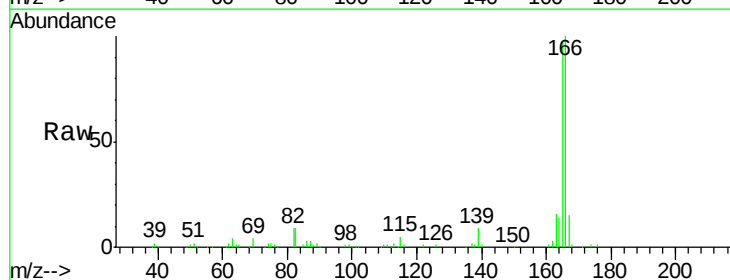
Tgt Ion:166 Resp: 91268

Ion Ratio Lower Upper

166 100

165 97.0 81.4 122.0

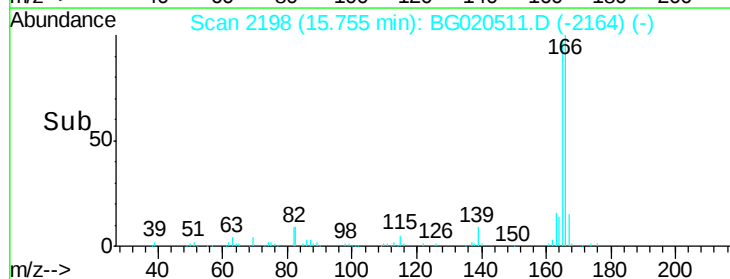
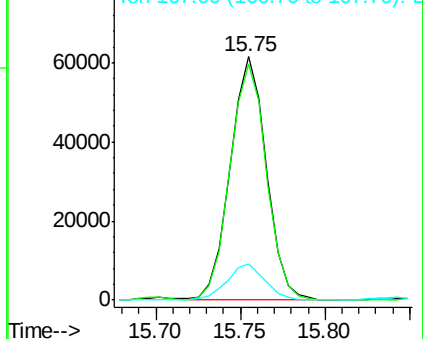
167 14.8 11.2 16.8

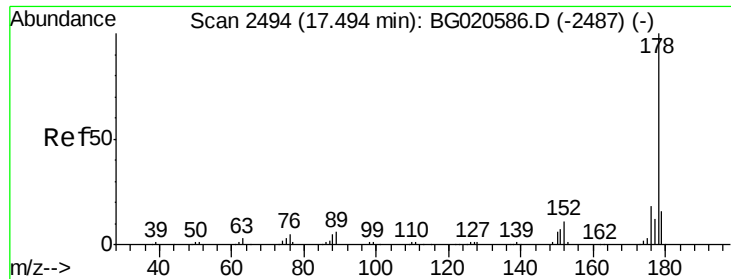


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 22.19 ng/ul

RT: 17.49 min Scan# 2494

Delta R.T. -0.00 min

Lab File: BG020511.D

Acq: 25 Dec 2015 19:46

Instrument :

BNA\_G

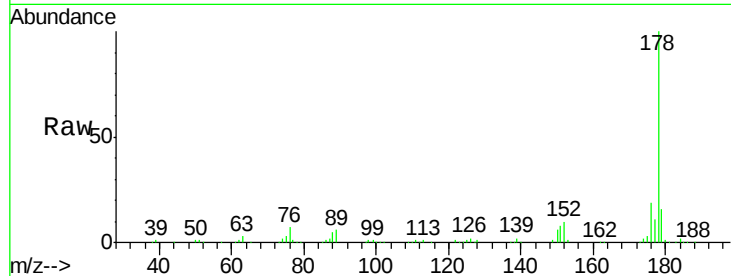
ClientSampleId :

D9N66

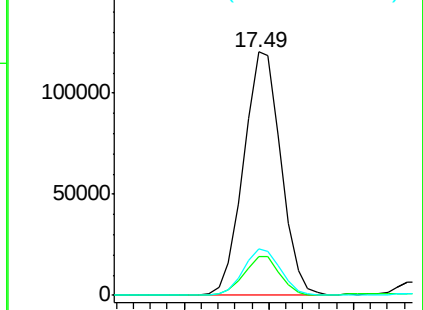
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 185274 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.7  | 12.9  | 19.3   |
| 176       | 19.3  | 15.3  | 22.9   |

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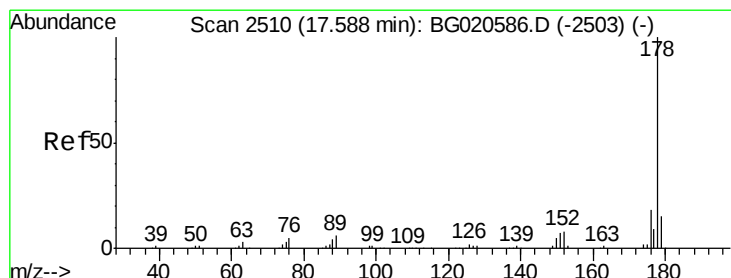
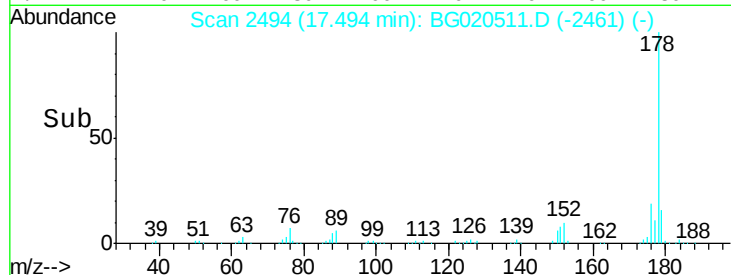
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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



Time-->



#72

Anthracene

Concen: 1.27 ng/ul m

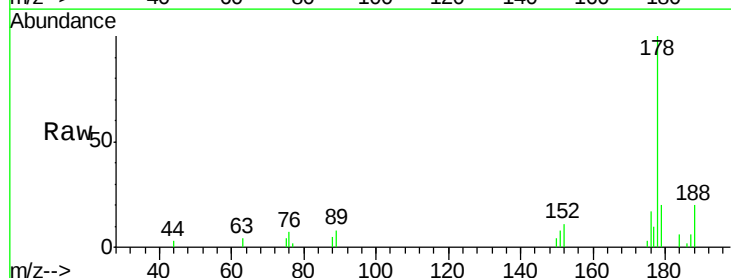
RT: 17.59 min Scan# 2510

Delta R.T. 0.00 min

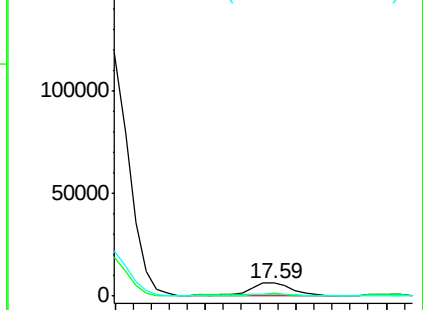
Lab File: BG020511.D

Acq: 25 Dec 2015 19:46

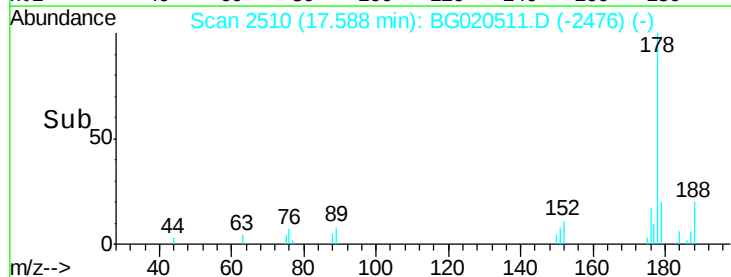
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 10862 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 20.1  | 12.3  | 18.5# |
| 176       | 17.4  | 14.3  | 21.5  |

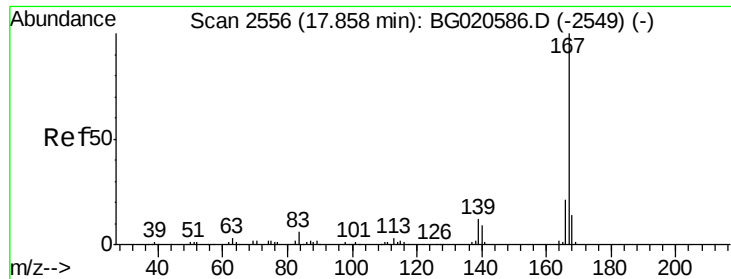


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



Time-->





#75

Carbazole

Concen: 11.43 ng/ul

RT: 17.86 min Scan# 2556

Delta R.T. 0.00 min

Lab File: BG020511.D

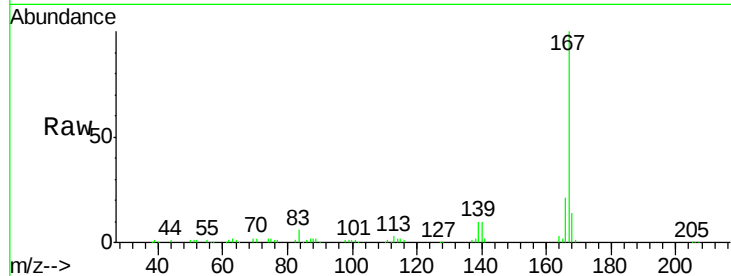
Acq: 25 Dec 2015 19:46

Instrument :

BNA\_G

ClientSampleId :

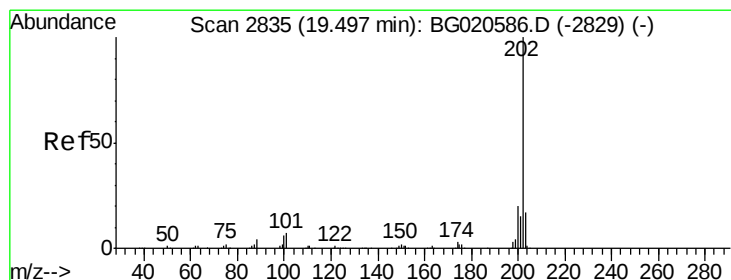
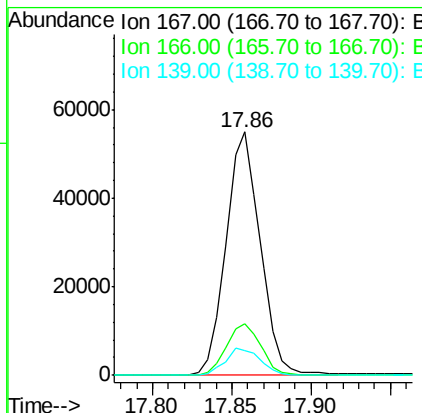
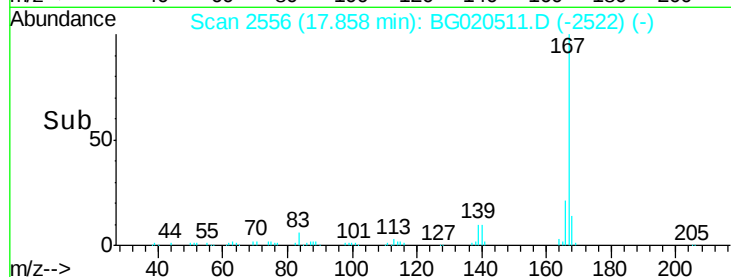
D9N66



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 167   | Resp: | 82229 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 21.0  | 17.0  | 25.6  |
| 139       | 10.4  | 10.1  | 15.1  |

Manual Integrations  
APPROVED

Sohil  
12/28/2015 6:06:09 PM



#77

Fluoranthene

Concen: 2.24 ng/ul

RT: 19.50 min Scan# 2835

Delta R.T. -0.00 min

Lab File: BG020511.D

Acq: 25 Dec 2015 19:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 23574 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 6.5   | 6.2   | 9.4   |
| 100       | 6.8   | 5.1   | 7.7   |

