

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041416\  
 Data File : BG021686.D  
 Acq On : 15 Apr 2016 13:59  
 Operator : UM/SJ  
 Sample : H2412-10  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP-7W(0-2)C

Manual Integrations  
 APPROVED

Sohil  
 4/15/2016 4:45:00 PM

Quant Time: Apr 15 16:31:10 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 13 15:48:13 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.22  | 152  | 48396    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 11.04 | 136  | 203461   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10        | 14.83 | 164  | 111049   | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10        | 17.56 | 188  | 228479   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12            | 21.84 | 240  | 258282   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12            | 25.19 | 264  | 210058   | 20.00  | ng    | 0.02        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.77  | 112  | 431579   | 148.50 | ng    | 0.01        |
| 7) Phenol-d6                | 7.38  | 99   | 603939   | 139.12 | ng    | 0.02        |
| 23) Nitrobenzene-d5         | 9.39  | 82   | 383994   | 97.01  | ng    | 0.00        |
| 41) 2,4,6-Tribromophenol    | 16.31 | 330  | 180426   | 150.75 | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 13.46 | 172  | 736889   | 97.22  | ng    | 0.00        |
| 78) Terphenyl-d14           | 20.15 | 244  | 864373   | 83.51  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 31) Naphthalene             | 11.09 | 128  | 21935    | 2.01   | ng    | Qvalue # 93 |
| 49) Dimethylphthalate       | 14.27 | 163  | 117960   | 12.29  | ng    | # 98        |
| 70) Phenanthrene            | 17.61 | 178  | 175414   | 13.93  | ng    | 99          |
| 71) Anthracene              | 17.69 | 178  | 48585    | 3.80   | ng    | 97          |
| 74) Fluoranthene            | 19.60 | 202  | 412142   | 27.41  | ng    | 98          |
| 77) Pyrene                  | 19.96 | 202  | 410925   | 27.59  | ng    | 99          |
| 80) Benzo(a)anthracene      | 21.82 | 228  | 251746   | 16.94  | ng    | 98          |
| 82) Chrysene                | 21.88 | 228  | 233097m  | 16.32  | ng    |             |
| 85) Indeno(1,2,3-cd)pyrene  | 29.02 | 276  | 73392    | 4.32   | ng    | # 54        |
| 87) Benzo(b)fluoranthene    | 24.12 | 252  | 274909   | 22.55  | ng    | 95          |
| 88) Benzo(k)fluoranthene    | 24.19 | 252  | 121776m  | 10.22  | ng    |             |
| 89) Benzo(a)pyrene          | 25.03 | 252  | 190040   | 16.09  | ng    | # 93        |
| 91) Benzo(g,h,i)perylene    | 30.19 | 276  | 59521m   | 5.12   | ng    |             |

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

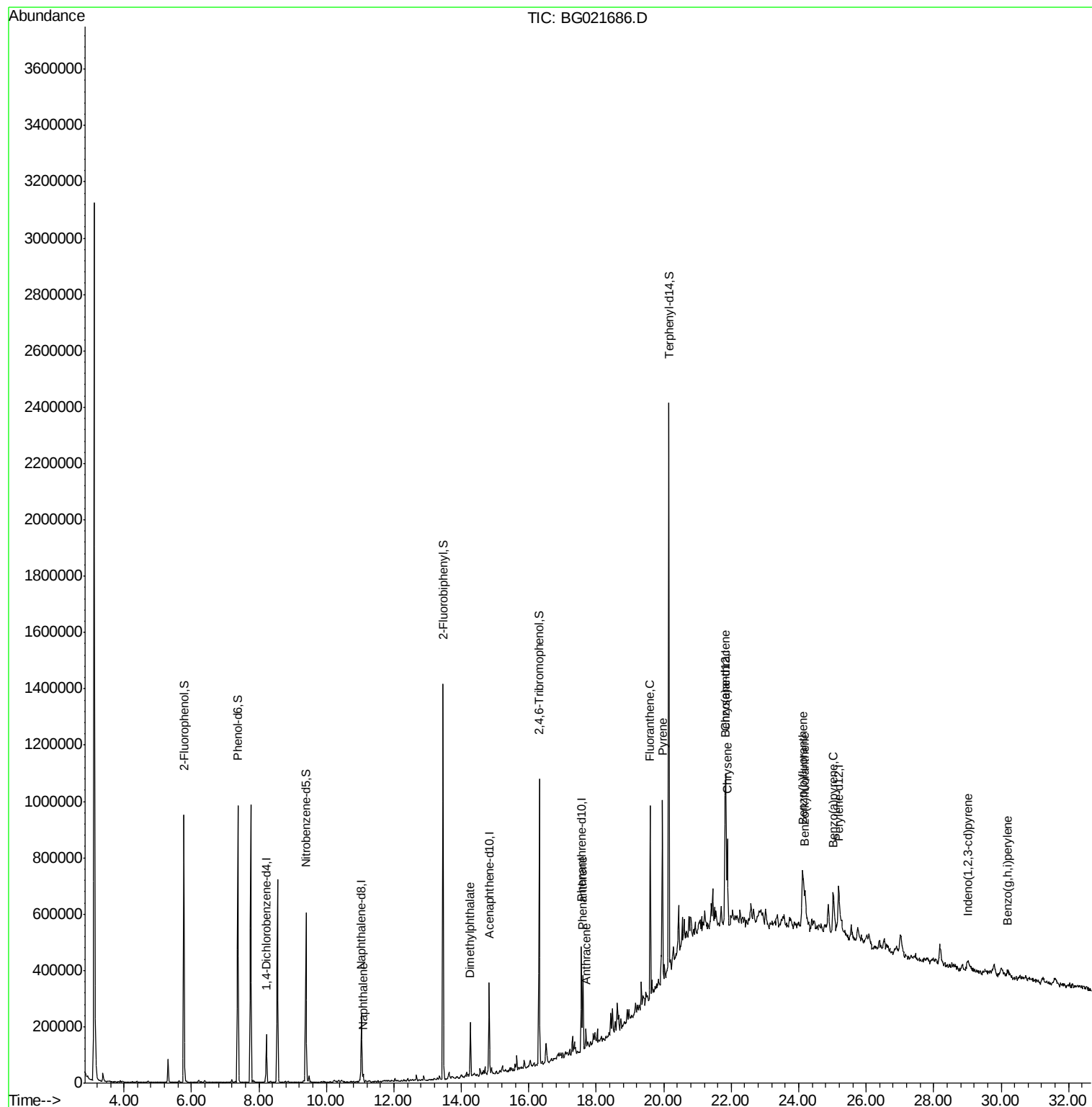
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG041416\  
Data File : BG021686.D  
Acq On : 15 Apr 2016 13:59  
Operator : UM/SJ  
Sample : H2412-10  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

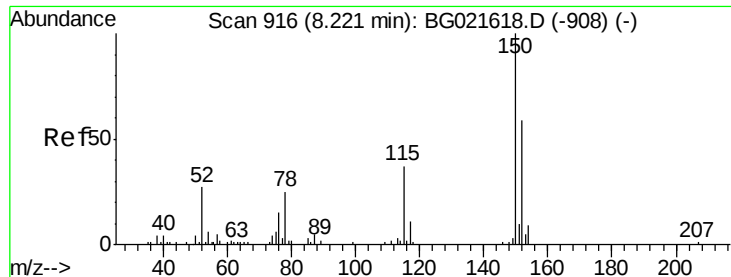
Instrument :  
BNA\_G  
ClientSampleId :  
SP-7W(0-2)C

Manual Integrations  
APPROVED

Sohil  
4/15/2016 4:45:00 PM

Quant Time: Apr 15 16:31:10 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG041316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 13 15:48:13 2016  
Response via : Initial Calibration





#1

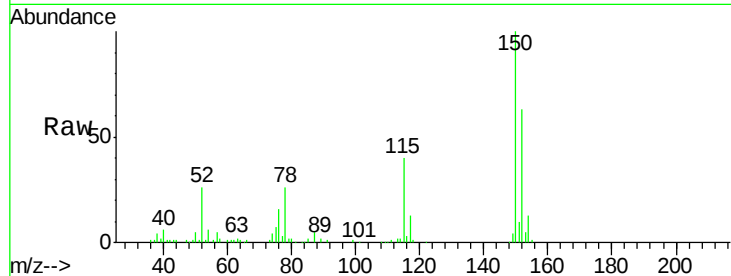
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.22 min Scan# 916  
Delta R.T. 0.00 min  
Lab File: BG021686.D  
Acq: 15 Apr 2016 13:59

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7W(0-2)C

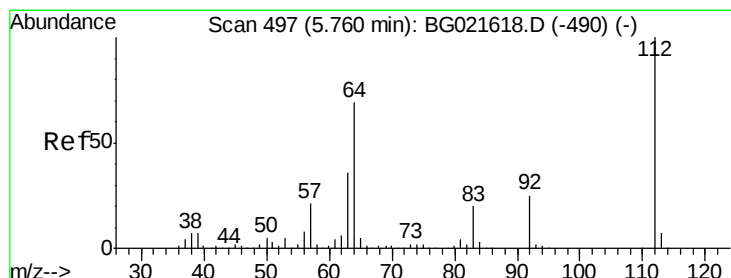
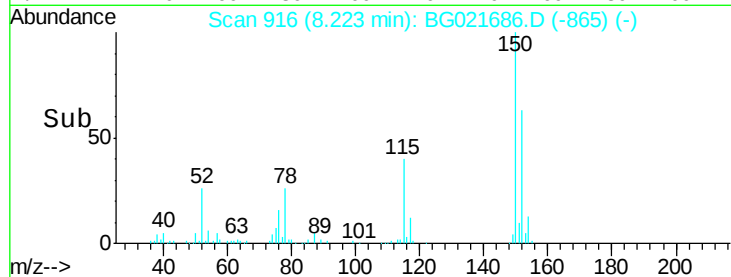
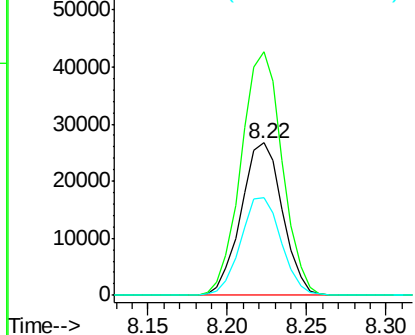
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.6 | 130.1 | 195.1 |
| 115     | 63.9  | 62.2  | 93.2  |

Manual Integrations  
APPROVED

Sohil  
4/15/2016 4:45:00 PM



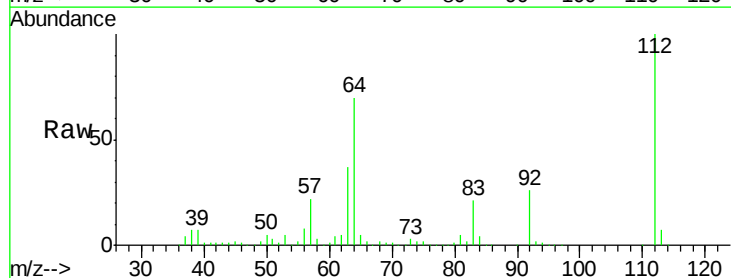
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



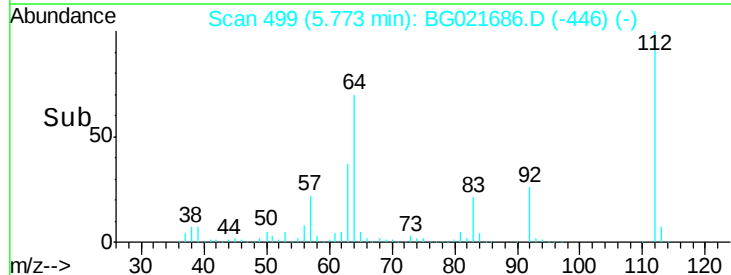
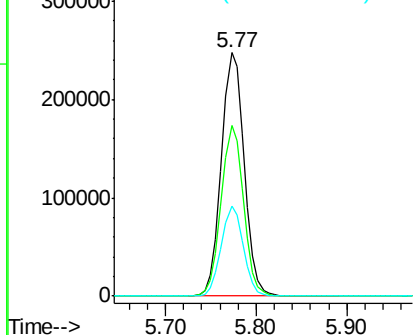
#5

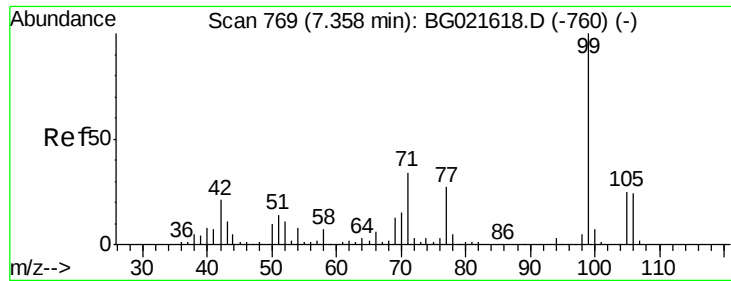
2-Fluorophenol  
Concen: 148.50 ng  
RT: 5.77 min Scan# 499  
Delta R.T. 0.01 min  
Lab File: BG021686.D  
Acq: 15 Apr 2016 13:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 70.2  | 51.1  | 76.7  |
| 63      | 36.8  | 24.6  | 37.0  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 139.12 ng

RT: 7.38 min Scan# 772

Delta R.T. 0.02 min

Lab File: BG021686.D

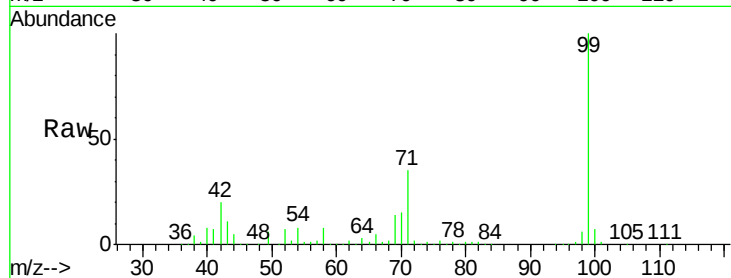
Acq: 15 Apr 2016 13:59

Instrument :

BNA\_G

ClientSampleId :

SP-7W(0-2)C



Tgt Ion: 99 Resp: 603939

Ion Ratio Lower Upper

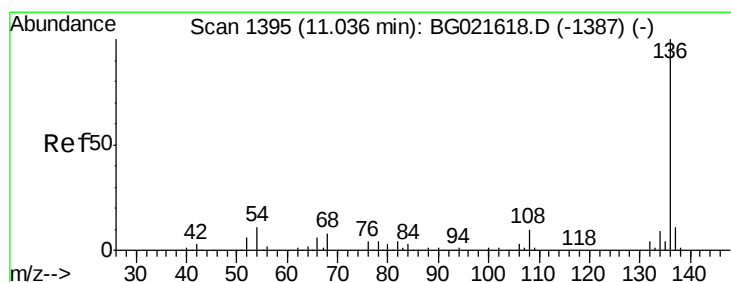
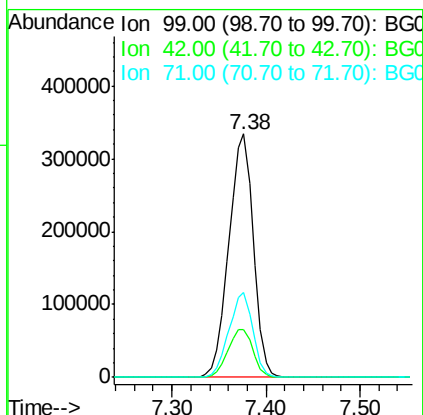
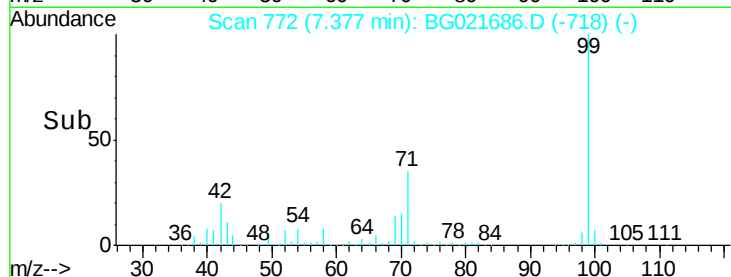
99 100

42 19.8 16.4 24.6

71 34.9 25.0 37.4

Manual Integrations  
APPROVED

Sohil  
4/15/2016 4:45:00 PM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.04 min Scan# 1395

Delta R.T. 0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

Tgt Ion: 136 Resp: 203461

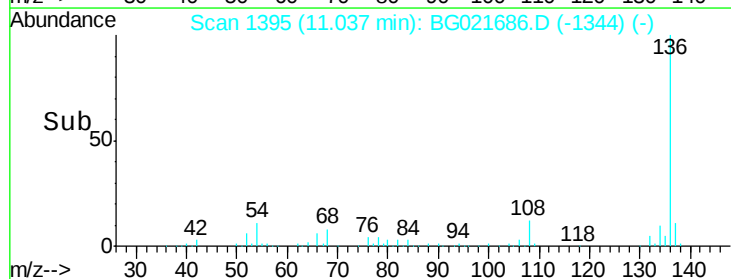
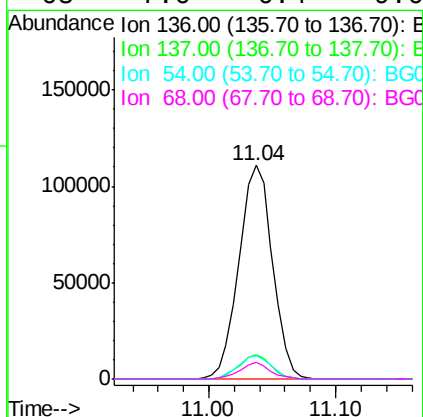
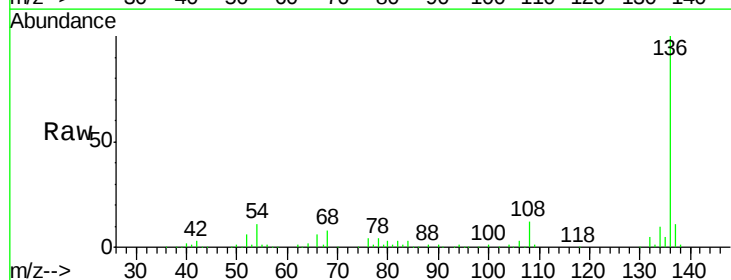
Ion Ratio Lower Upper

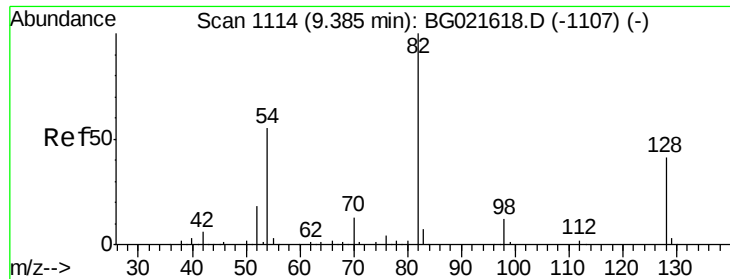
136 100

137 11.5 9.0 13.4

54 10.9 9.6 14.4

68 7.6 6.4 9.6





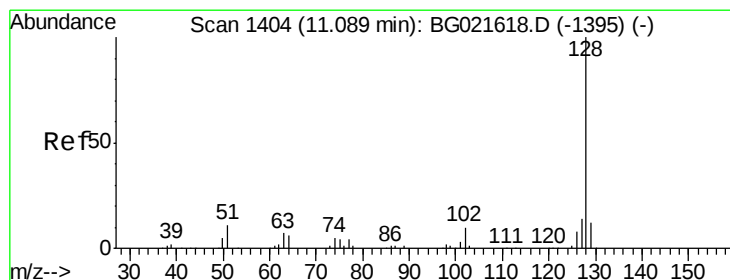
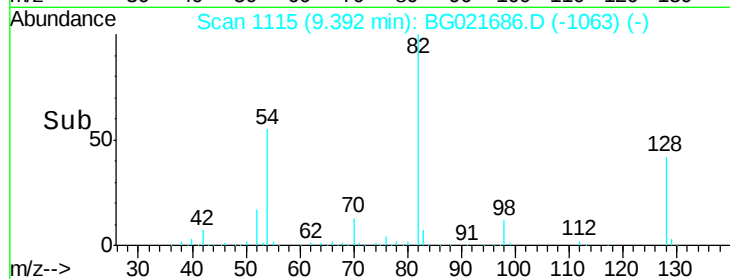
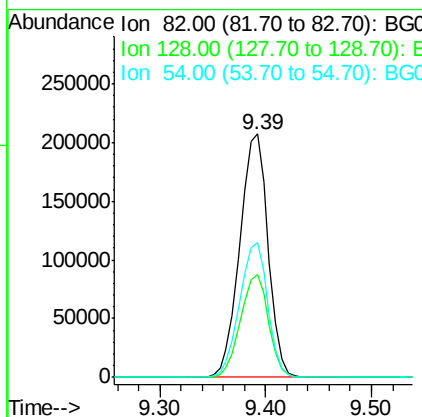
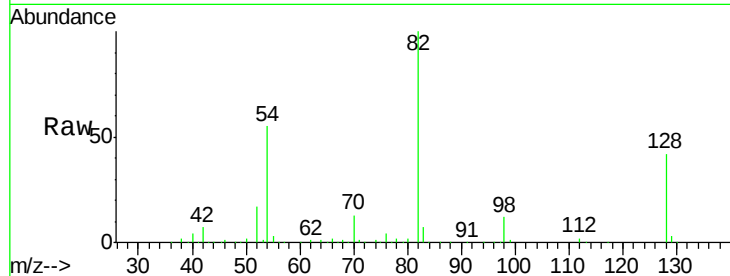
#23  
Nitrobenzene-d5  
Concen: 97.01 ng  
RT: 9.39 min Scan# 1115  
Delta R.T. 0.01 min  
Lab File: BG021686.D  
Acq: 15 Apr 2016 13:59

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7W(0-2)C

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 383994 |       |       |
| 128     | 42.4  | 33.4   | 50.0  |       |
| 54      | 55.2  | 46.1   | 69.1  |       |

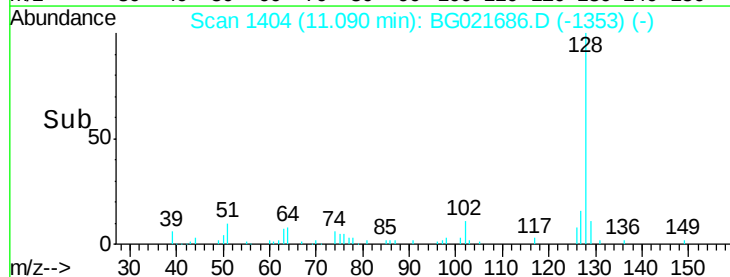
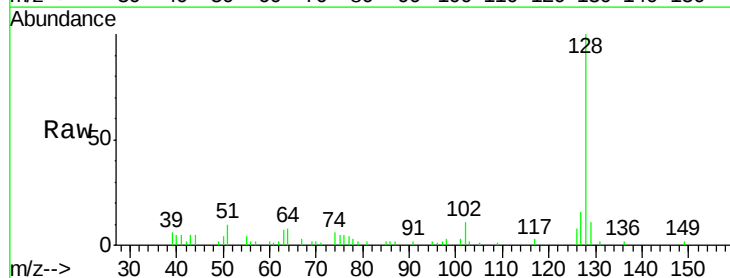
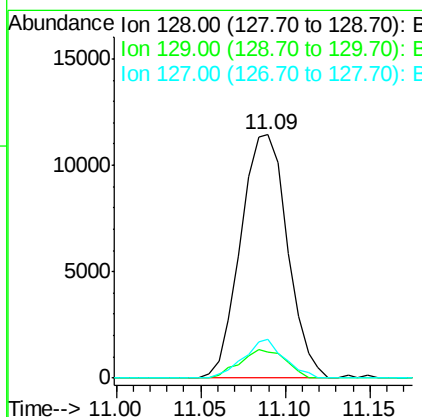
Manual Integrations  
APPROVED

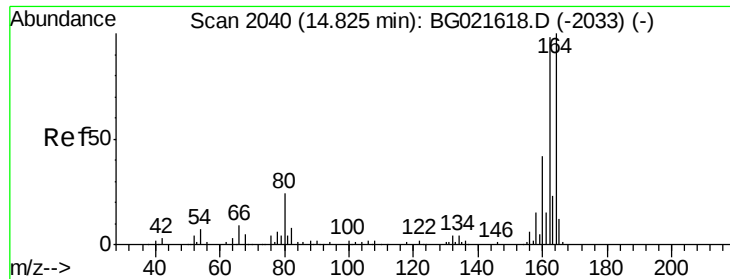
Sohil  
4/15/2016 4:45:00 PM



#31  
Naphthalene  
Concen: 2.01 ng  
RT: 11.09 min Scan# 1404  
Delta R.T. 0.00 min  
Lab File: BG021686.D  
Acq: 15 Apr 2016 13:59

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 128     | 100   | 21935 |       |       |
| 129     | 10.8  | 7.0   | 10.6# |       |
| 127     | 15.8  | 10.1  | 15.1# |       |





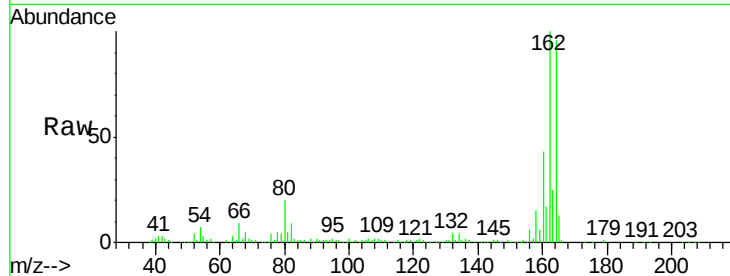
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.83 min Scan# 2040  
Delta R.T. 0.00 min  
Lab File: BG021686.D  
Acq: 15 Apr 2016 13:59

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7W(0-2)C

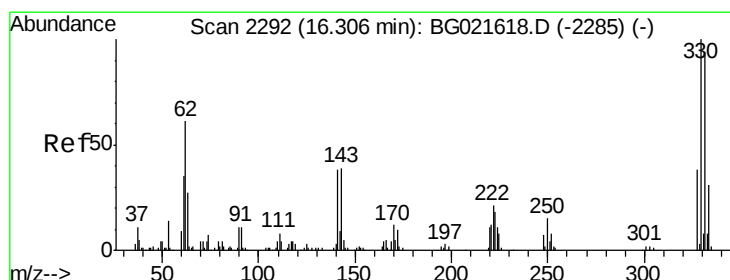
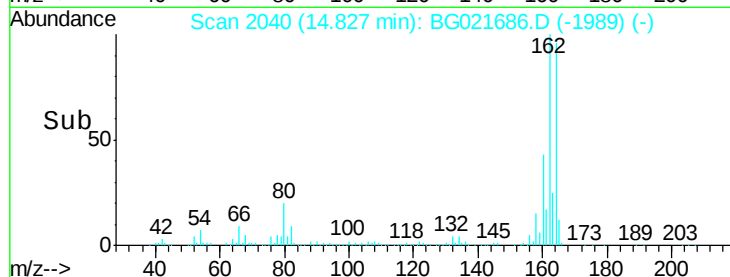
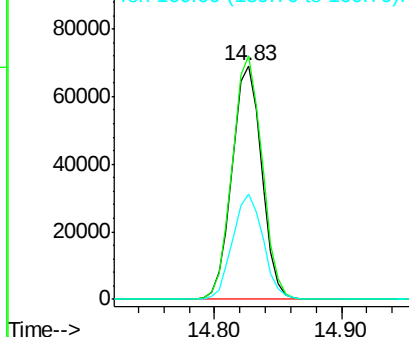
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 111049 |       |       |
| 162     | 104.2 | 78.0   | 117.0 |       |
| 160     | 44.9  | 32.9   | 49.3  |       |

Manual Integrations  
APPROVED

Sohil  
4/15/2016 4:45:00 PM

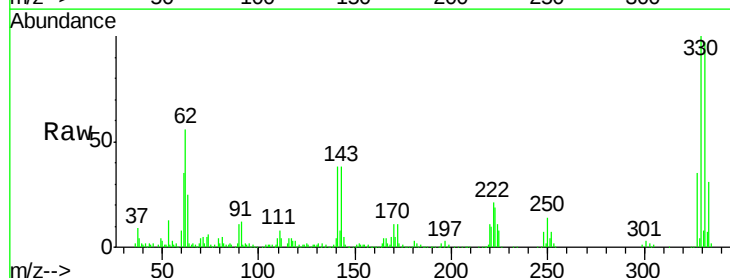


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

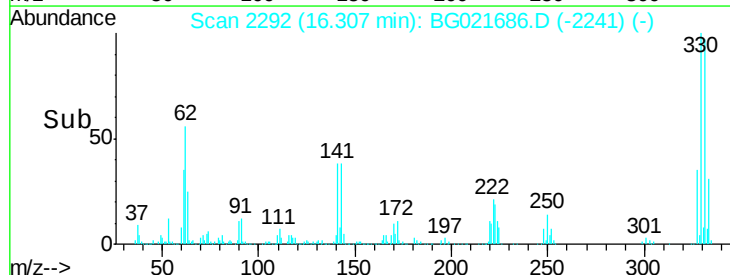
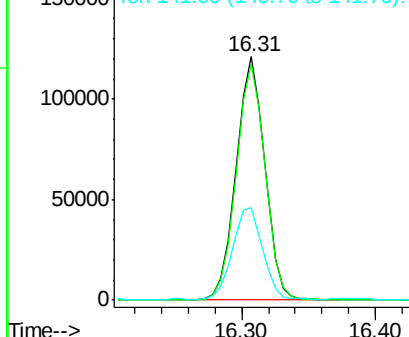


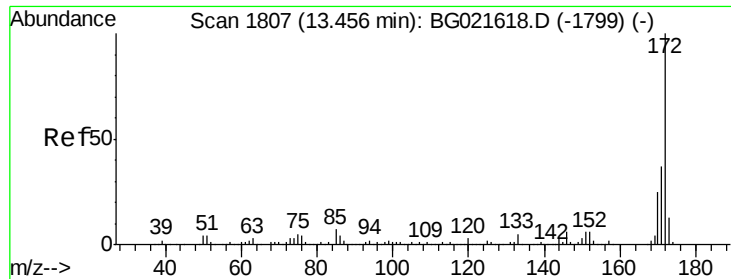
#41  
2,4,6-Tribromophenol  
Concen: 150.75 ng  
RT: 16.31 min Scan# 2292  
Delta R.T. 0.00 min  
Lab File: BG021686.D  
Acq: 15 Apr 2016 13:59

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 180426 |       |       |
| 332     | 97.5  | 78.0   | 117.0 |       |
| 141     | 39.5  | 33.8   | 50.8  |       |



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E





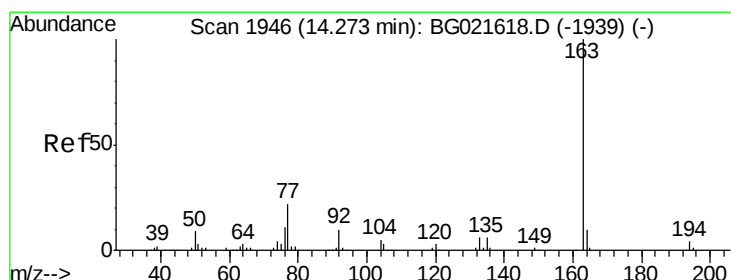
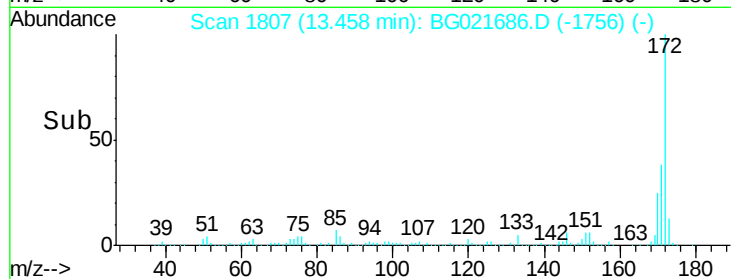
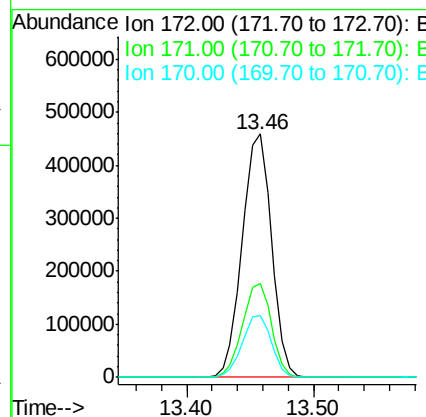
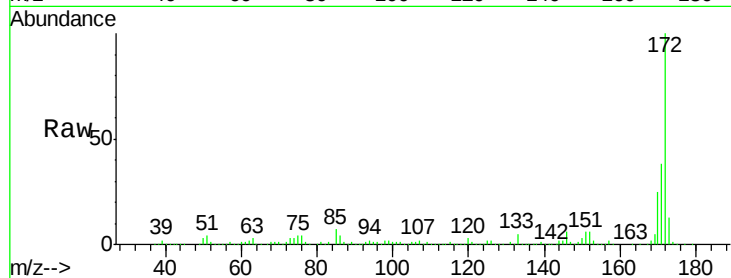
#44  
2-Fluorobiphenyl  
Concen: 97.22 ng  
RT: 13.46 min Scan# 1807  
Delta R.T. 0.00 min  
Lab File: BG021686.D  
Acq: 15 Apr 2016 13:59

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7W(0-2)C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.4  | 27.8  | 41.6  |
| 170     | 25.4  | 19.6  | 29.4  |

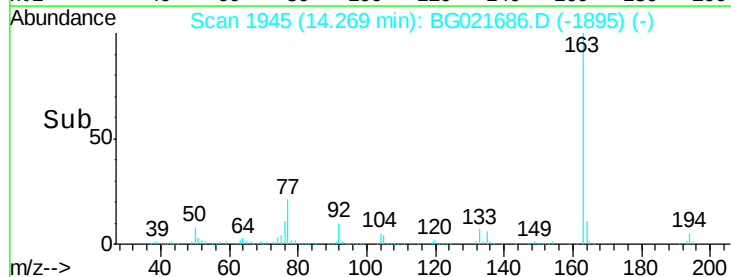
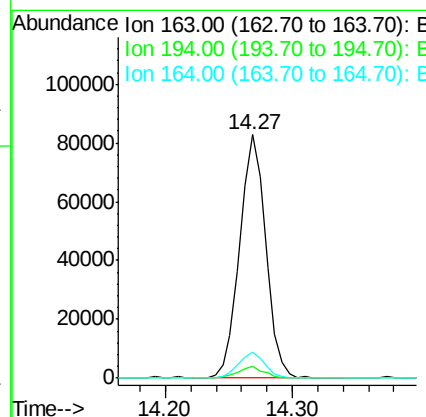
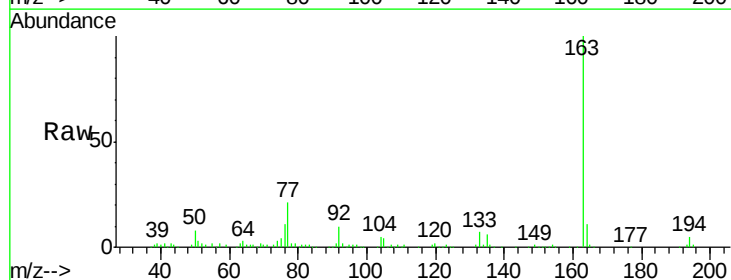
Manual Integrations  
APPROVED

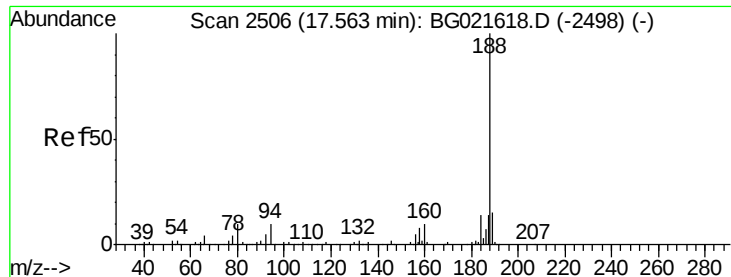
Sohil  
4/15/2016 4:45:00 PM



#49  
Dimethylphthalate  
Concen: 12.29 ng  
RT: 14.27 min Scan# 1945  
Delta R.T. -0.00 min  
Lab File: BG021686.D  
Acq: 15 Apr 2016 13:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.8   | 3.0   | 4.6#  |
| 164     | 10.6  | 8.1   | 12.1  |





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.56 min Scan# 2505

Delta R.T. -0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

Instrument :

BNA\_G

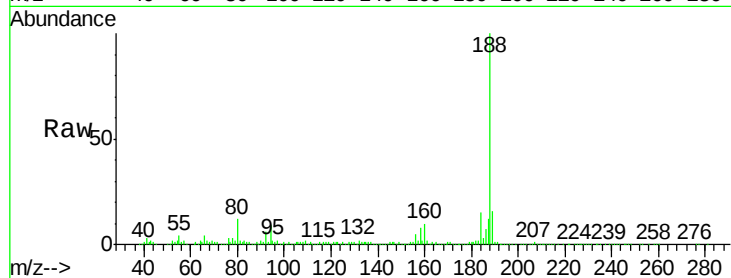
ClientSampleId :

SP-7W(0-2)C

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 9.1   | 7.5        | 11.3       |
| 80      | 11.6  | 8.6        | 13.0       |

Manual Integrations  
APPROVED

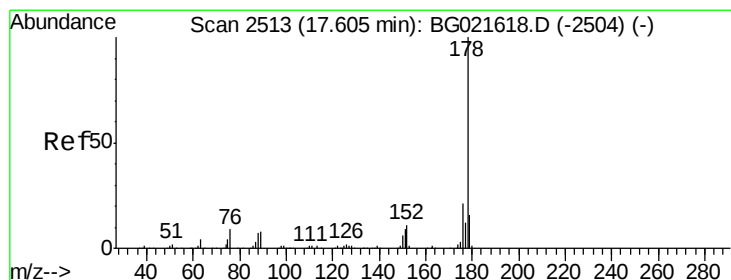
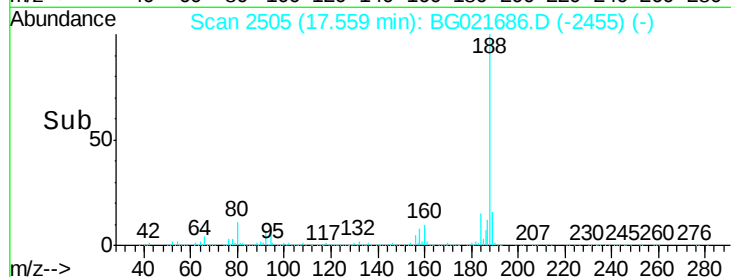
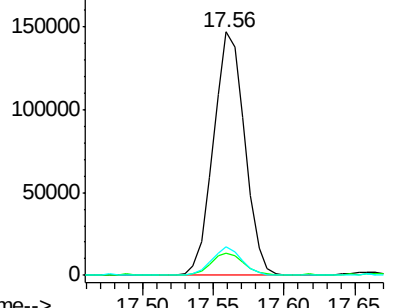
Sohil  
4/15/2016 4:45:00 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#70

Phenanthrene

Concen: 13.93 ng

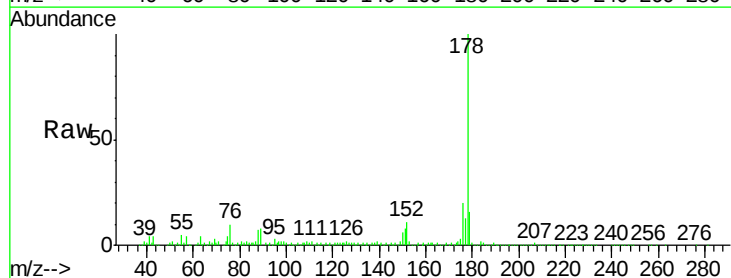
RT: 17.61 min Scan# 2513

Delta R.T. 0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

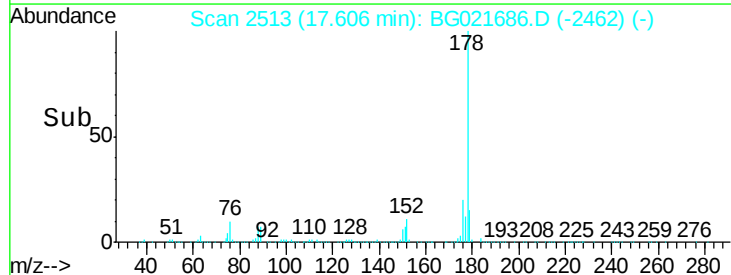
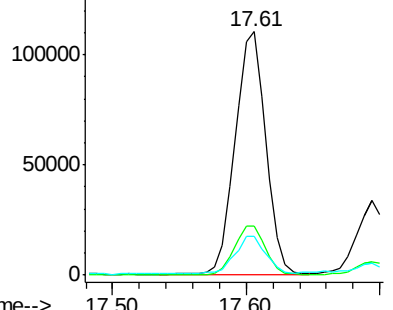
| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 178     | 100   |            |            |
| 176     | 20.0  | 16.2       | 24.4       |
| 179     | 15.8  | 12.0       | 18.0       |

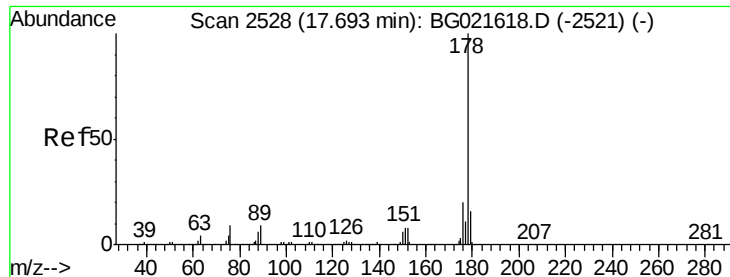


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 3.80 ng

RT: 17.69 min Scan# 2528

Delta R.T. 0.00 min

Lab File: BG021686.D

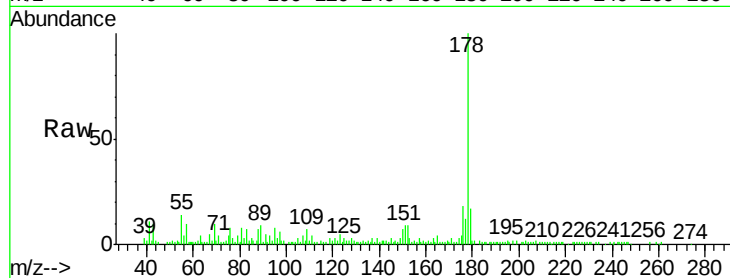
Acq: 15 Apr 2016 13:59

Instrument :

BNA\_G

ClientSampleId :

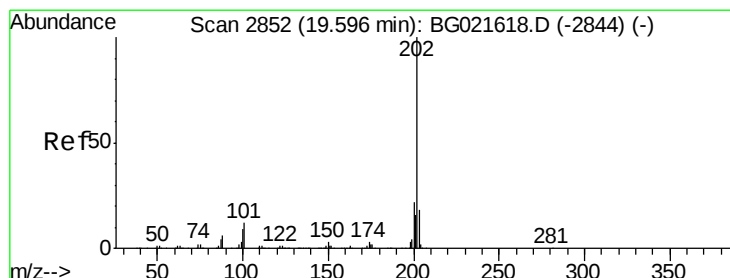
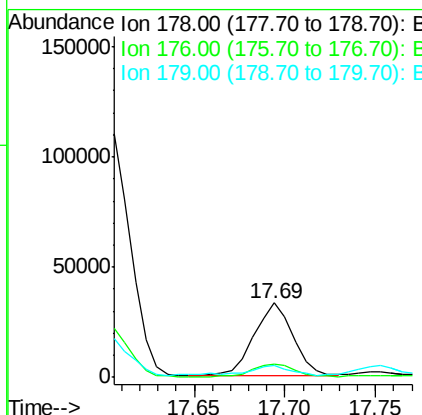
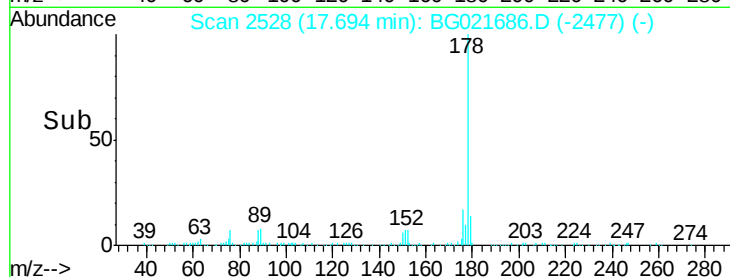
SP-7W(0-2)C



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.7  | 15.0  | 22.4  |
| 179     | 16.5  | 12.2  | 18.4  |

Manual Integrations  
APPROVED

Sohil  
4/15/2016 4:45:00 PM



#74

Fluoranthene

Concen: 27.41 ng

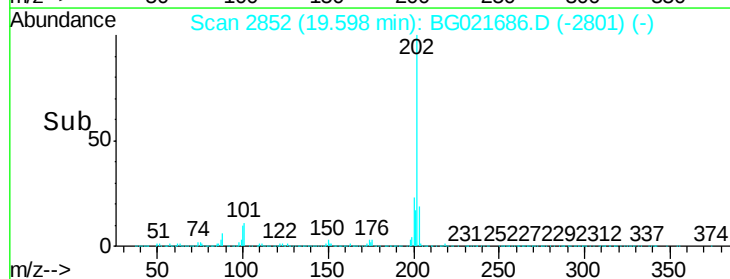
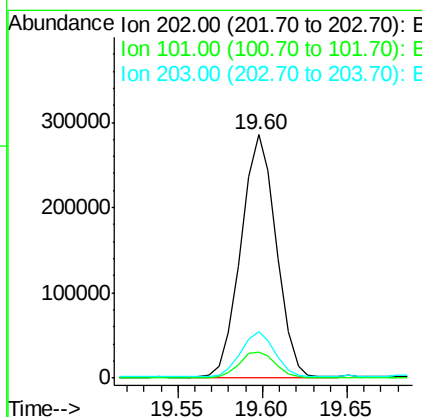
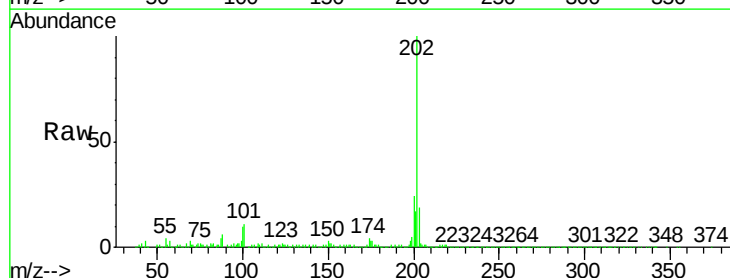
RT: 19.60 min Scan# 2852

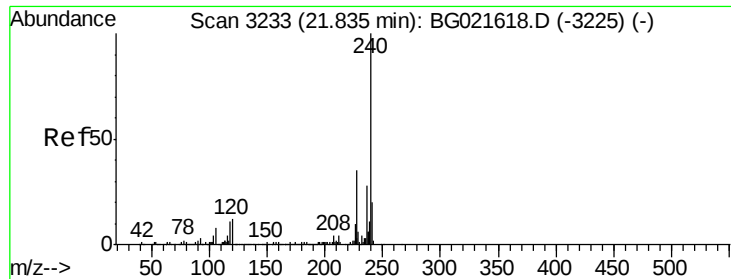
Delta R.T. 0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.9  | 0.0   | 31.0  |
| 203     | 19.0  | 0.0   | 37.9  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.84 min Scan# 3234

Delta R.T. 0.01 min

Lab File: BG021686.D

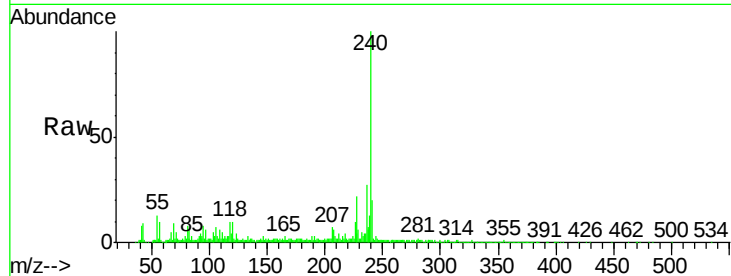
Acq: 15 Apr 2016 13:59

Instrument :

BNA\_G

ClientSampleId :

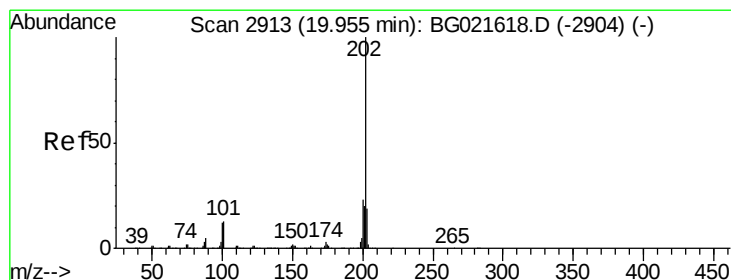
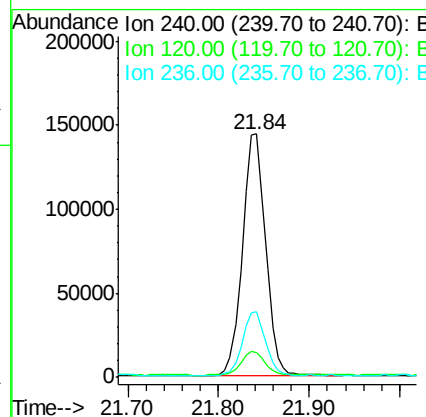
SP-7W(0-2)C



| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 240     | 100   |      |       |       |
| 120     | 10.0  | 8.4  | 12.6  |       |
| 236     | 26.8  | 19.6 | 29.4  |       |

Manual Integrations  
APPROVED

Sohil  
4/15/2016 4:45:00 PM



#77

Pyrene

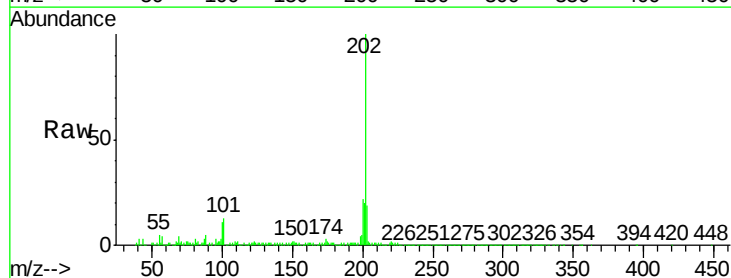
Concen: 27.59 ng

RT: 19.96 min Scan# 2913

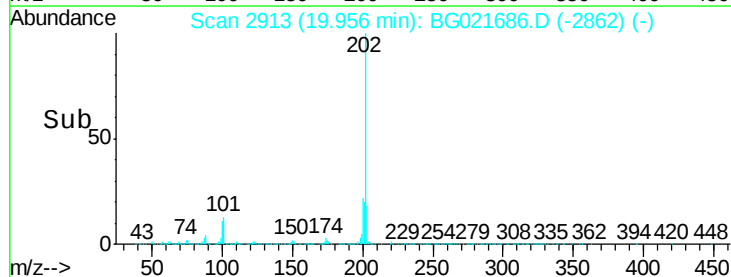
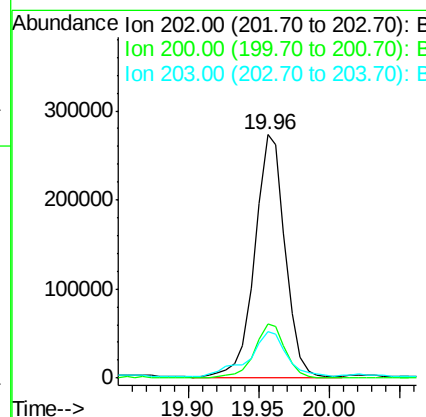
Delta R.T. 0.00 min

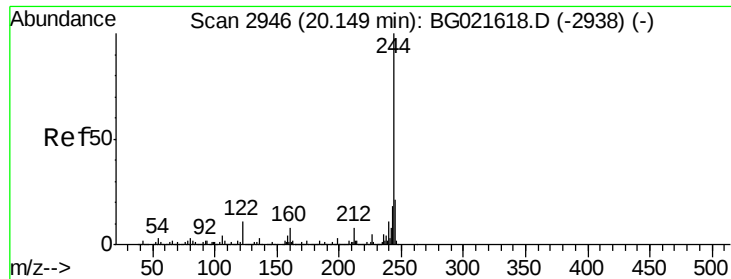
Lab File: BG021686.D

Acq: 15 Apr 2016 13:59



| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 200     | 22.2  | 18.2 | 27.2  |       |
| 203     | 19.0  | 15.0 | 22.4  |       |





#78

Terphenyl-d14

Concen: 83.51 ng

RT: 20.15 min Scan# 2946

Delta R.T. 0.00 min

Lab File: BG021686.D

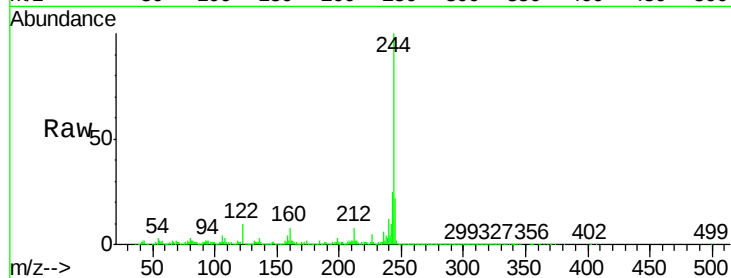
Acq: 15 Apr 2016 13:59

Instrument :

BNA\_G

ClientSampleId :

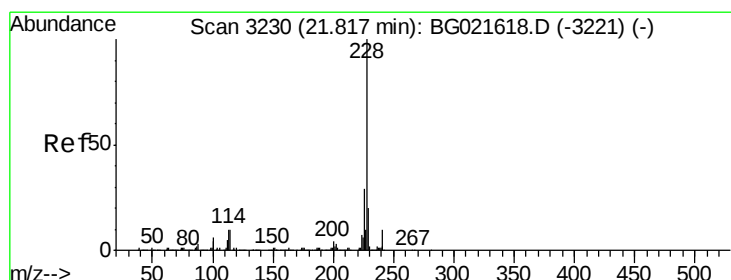
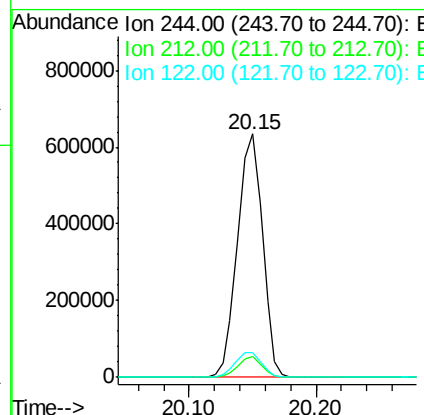
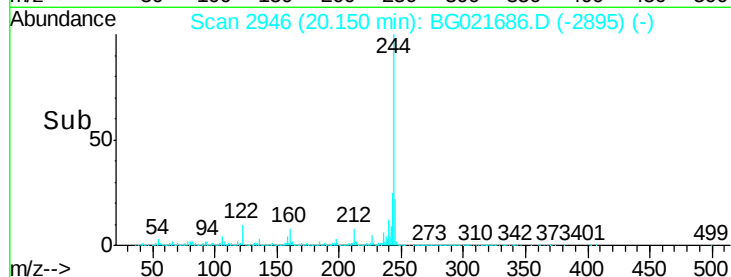
SP-7W(0-2)C



| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 864373 |       |       |
| 212     | 8.5   |        | 6.5   | 9.7   |
| 122     | 10.2  |        | 8.6   | 12.8  |

Manual Integrations  
APPROVED

Sohil  
4/15/2016 4:45:00 PM



#80

Benzo(a)anthracene

Concen: 16.94 ng

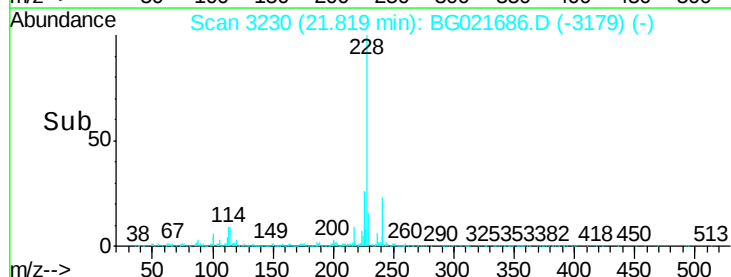
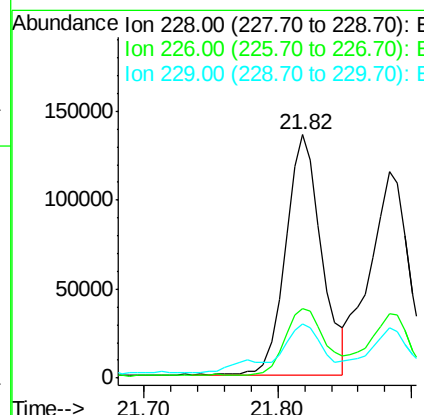
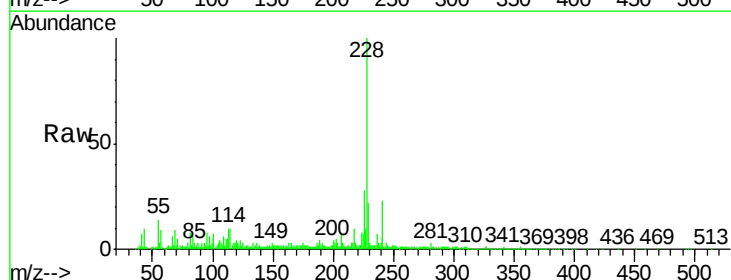
RT: 21.82 min Scan# 3230

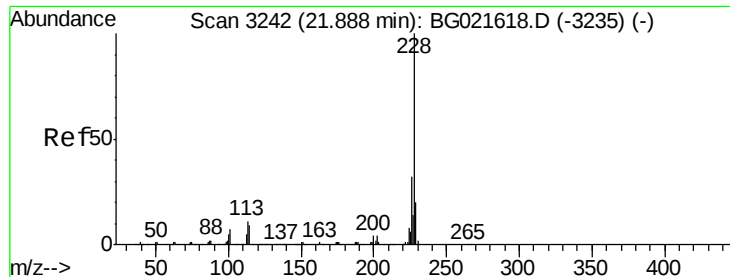
Delta R.T. 0.00 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 251746 |       |       |
| 226     | 28.4  |        | 22.6  | 34.0  |
| 229     | 22.4  |        | 16.1  | 24.1  |





#82

Chrysene

Concen: 16.32 ng m

RT: 21.88 min Scan# 3241

Delta R.T. -0.00 min

Lab File: BG021686.D

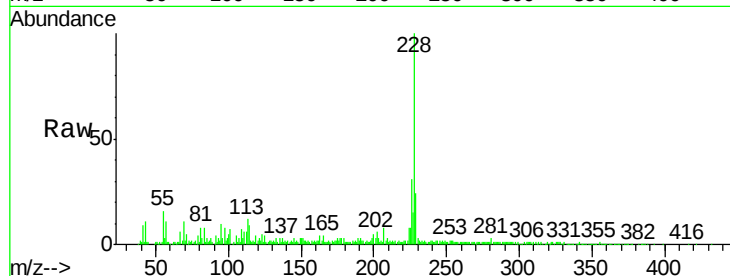
Acq: 15 Apr 2016 13:59

Instrument :

BNA\_G

ClientSampleId :

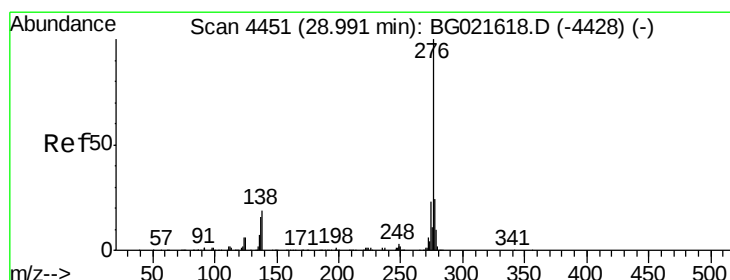
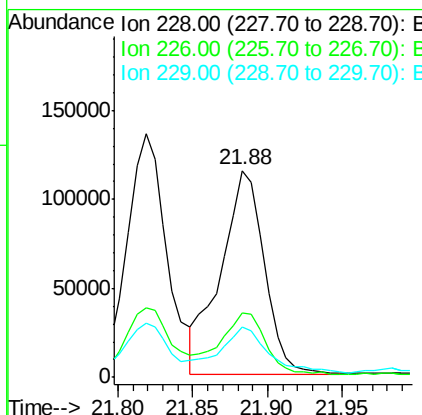
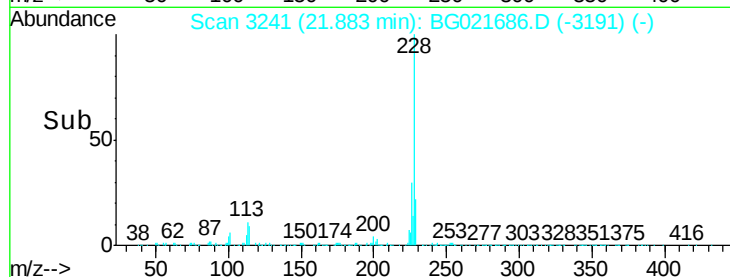
SP-7W(0-2)C



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.1  | 25.4  | 38.0  |
| 229     | 24.1  | 15.9  | 23.9# |

Manual Integrations  
APPROVED

Sohil  
4/15/2016 4:45:00 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.32 ng

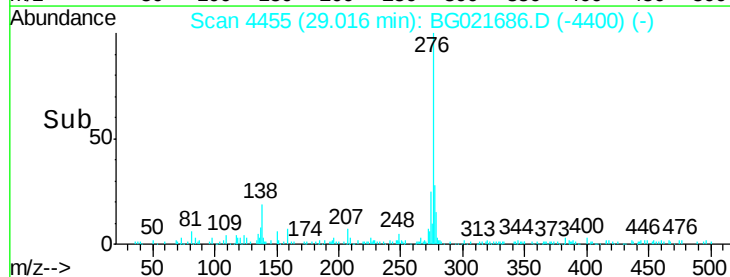
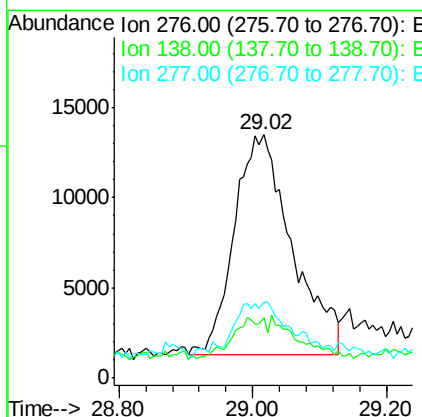
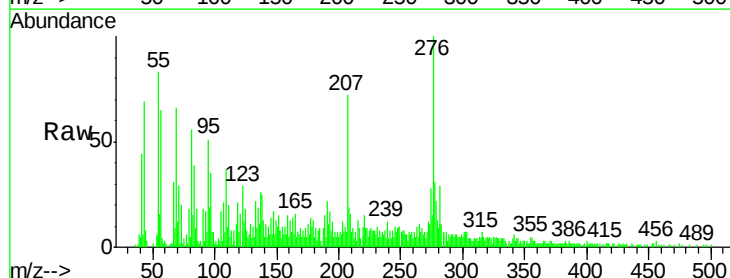
RT: 29.02 min Scan# 4455

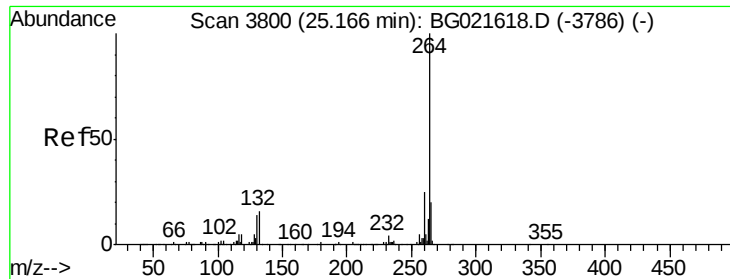
Delta R.T. 0.02 min

Lab File: BG021686.D

Acq: 15 Apr 2016 13:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 0.0   | 14.0  | 21.0# |
| 277     | 0.0   | 20.6  | 30.8# |





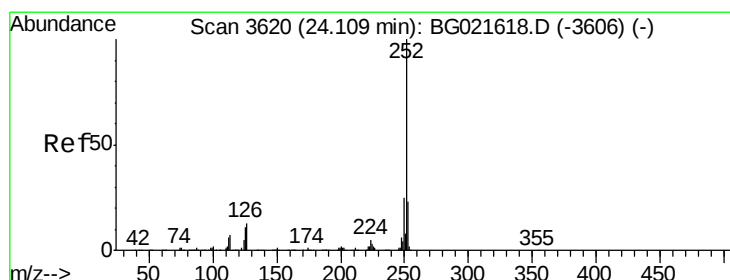
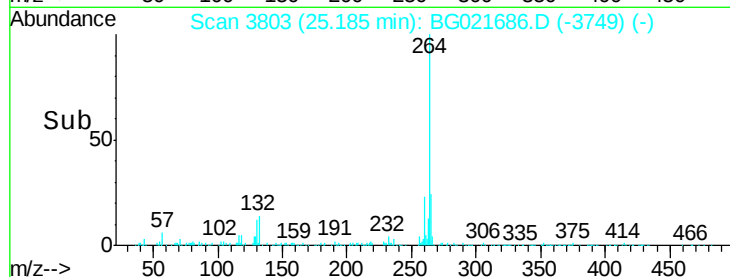
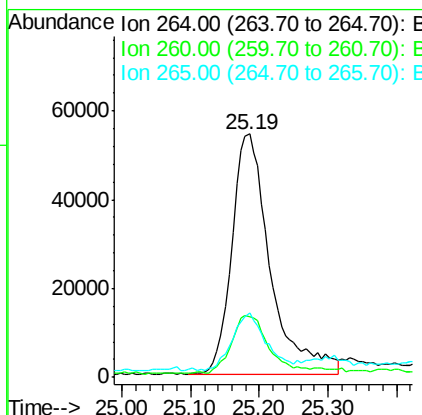
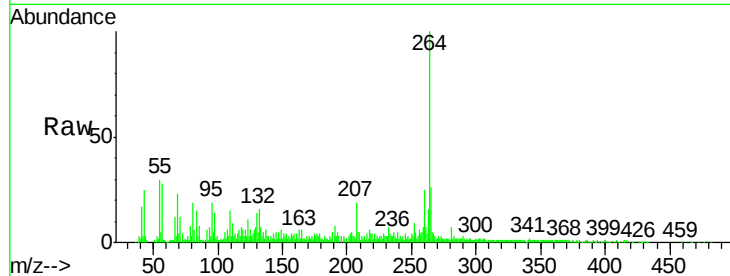
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 25.19 min Scan# 3803  
Delta R.T. 0.02 min  
Lab File: BG021686.D  
Acq: 15 Apr 2016 13:59

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7W(0-2)C

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 264     | 100   | 210058 |       |       |
| 260     | 24.9  | 20.2   | 30.4  |       |
| 265     | 26.2  | 17.8   | 26.8  |       |

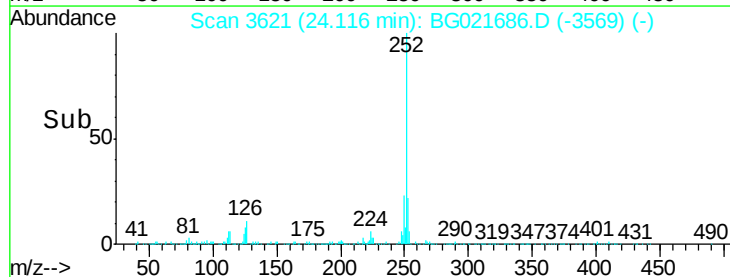
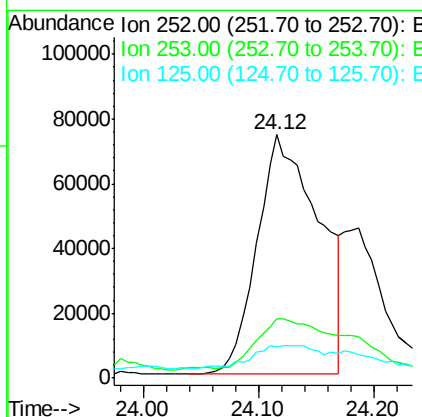
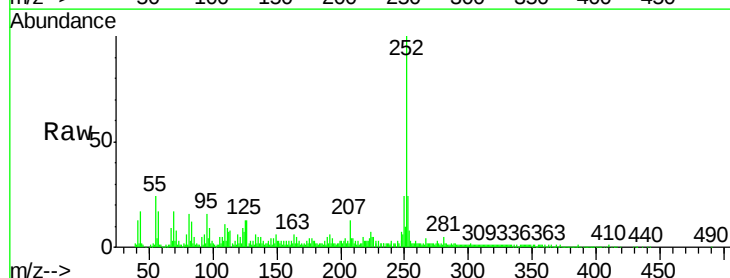
Manual Integrations  
APPROVED

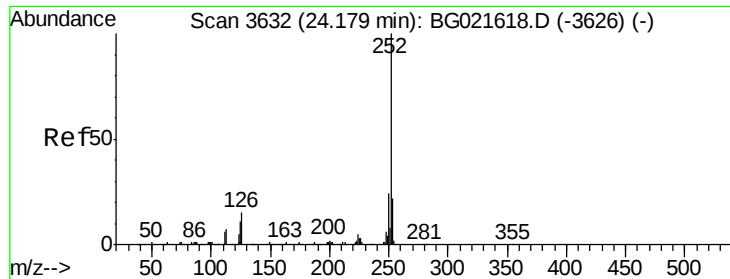
Sohil  
4/15/2016 4:45:00 PM



#87  
Benzo(b)fluoranthene  
Concen: 22.55 ng  
RT: 24.12 min Scan# 3621  
Delta R.T. 0.01 min  
Lab File: BG021686.D  
Acq: 15 Apr 2016 13:59

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 274909 |       |       |
| 253     | 24.4  | 17.5   | 26.3  |       |
| 125     | 12.8  | 8.6    | 13.0  |       |





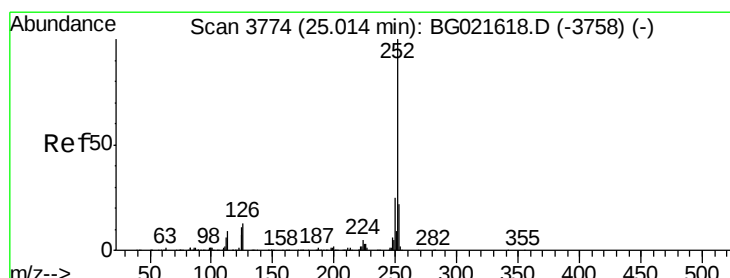
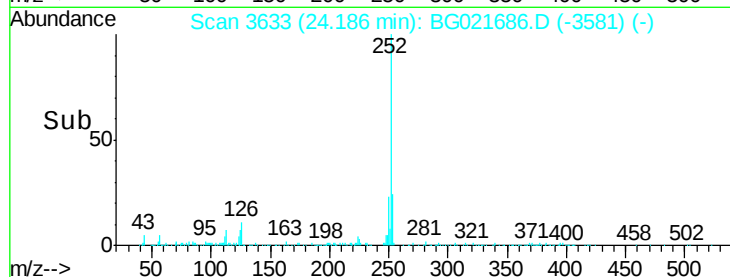
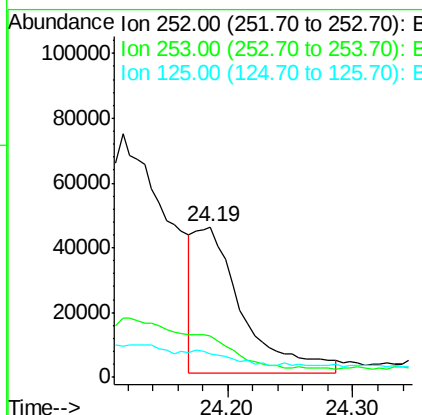
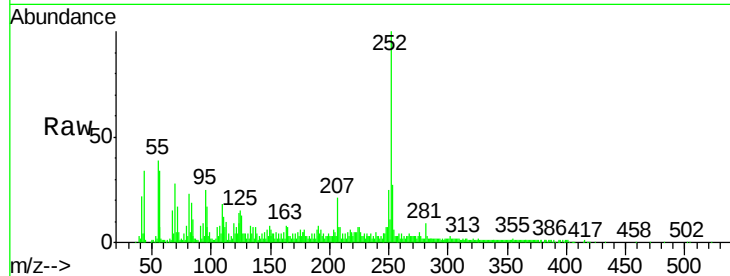
#88  
Benzo(k)fluoranthene  
Concen: 10.22 ng m  
RT: 24.19 min Scan# 3633  
Delta R.T. 0.01 min  
Lab File: BG021686.D  
Acq: 15 Apr 2016 13:59

Instrument :  
BNA\_G  
ClientSampleId :  
SP-7W(0-2)C

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.2  | 17.8  | 26.8# |
| 125     | 15.4  | 8.3   | 12.5# |

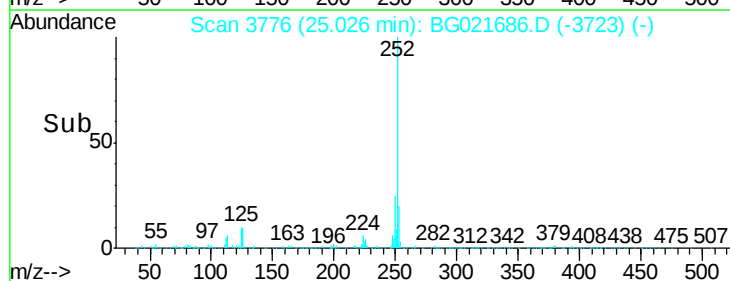
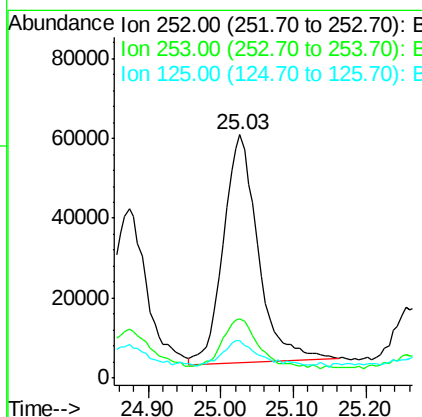
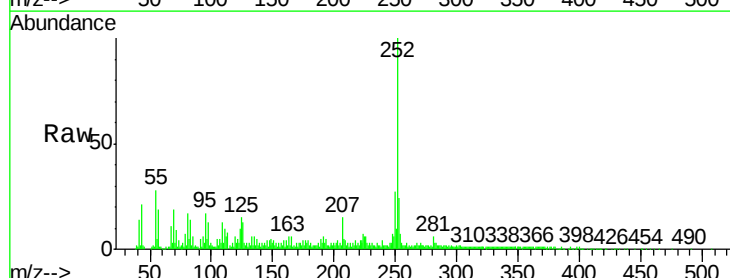
Manual Integrations  
APPROVED

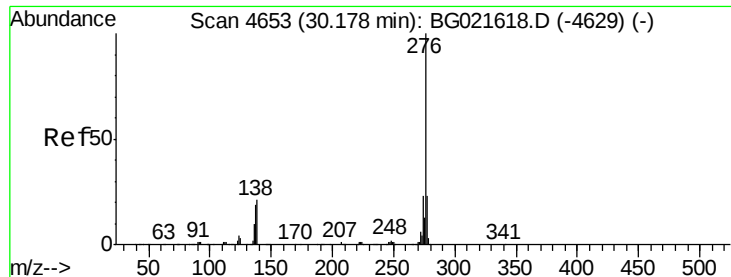
Sohil  
4/15/2016 4:45:00 PM



#89  
Benzo(a)pyrene  
Concen: 16.09 ng  
RT: 25.03 min Scan# 3776  
Delta R.T. 0.01 min  
Lab File: BG021686.D  
Acq: 15 Apr 2016 13:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 17.1  | 25.7  |
| 125     | 15.2  | 9.6   | 14.4# |





#91

Benzo(g,h,i)perylene

Concen: 5.12 ng m

RT: 30.19 min Scan# 4655

Delta R.T. 0.01 min

Lab File: BG021686.D

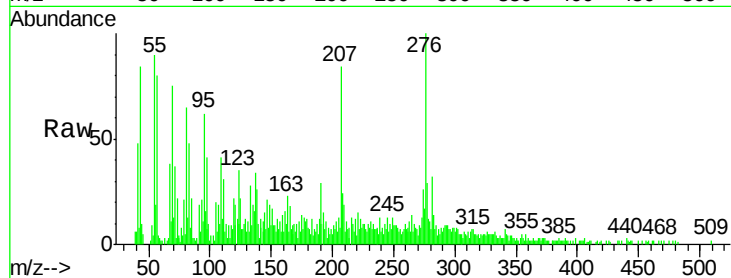
Acq: 15 Apr 2016 13:59

Instrument :

BNA\_G

ClientSampleId :

SP-7W(0-2)C



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 59521 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 29.0  | 19.4  | 29.2  |
| 138       | 25.6  | 17.4  | 26.0  |

Manual Integrations  
APPROVED

Sohil  
4/15/2016 4:45:00 PM

