

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052215\  
 Data File : BG017273.D  
 Acq On : 23 May 2015 9:06  
 Operator : TP/IZ  
 Sample : G2359-05 2X  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-29AS

Quant Time: May 26 00:59:23 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 25 08:11:45 2015  
 Response via : Initial Calibration

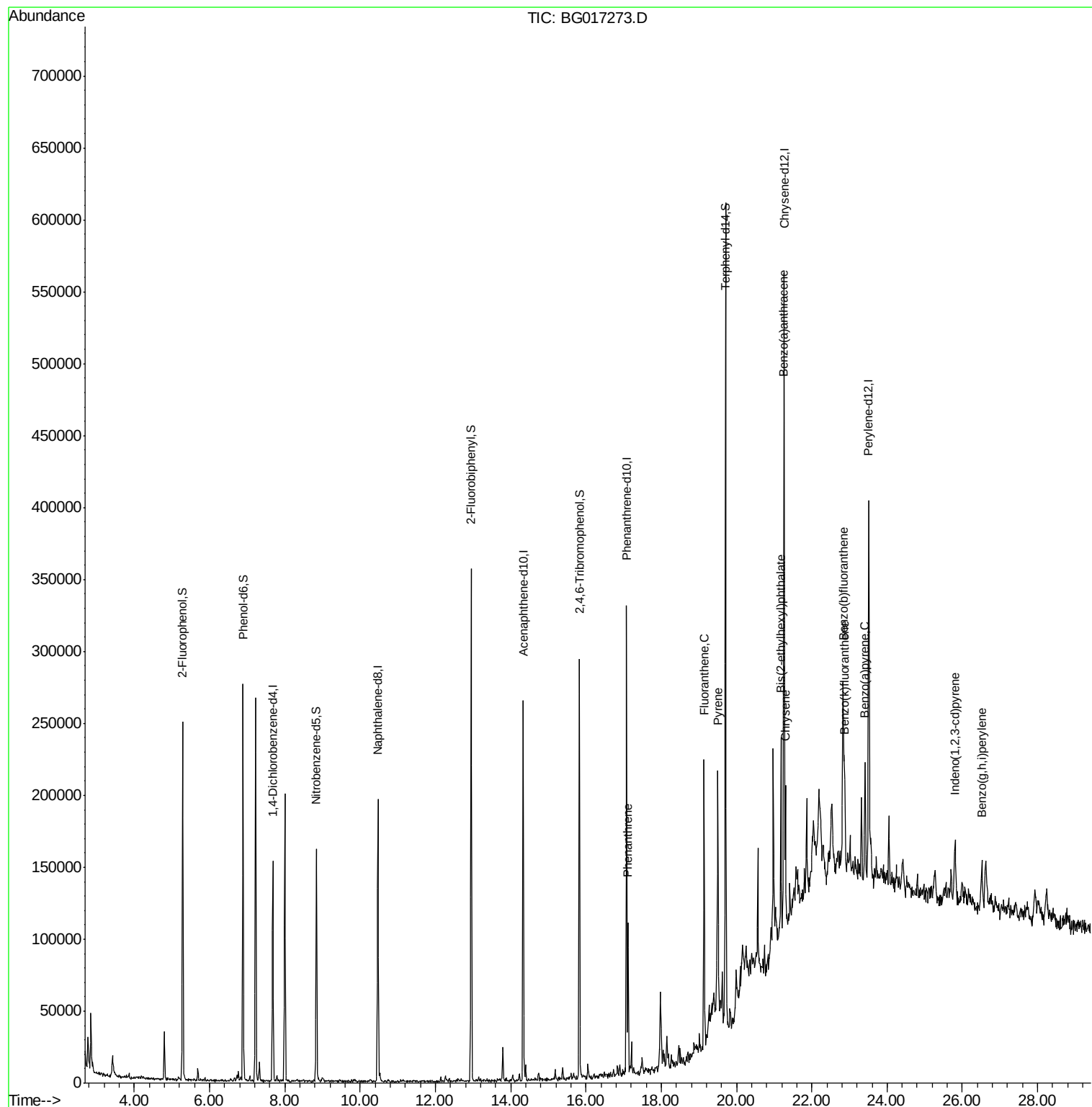
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.68  | 152  | 34861    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.47 | 136  | 143396   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.33 | 164  | 81823    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.08 | 188  | 170569   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 21.26 | 240  | 185550   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 23.52 | 264  | 185149   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.29  | 112  | 90319    | 45.97 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.89  | 99   | 125196   | 45.40 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 8.84  | 82   | 86464    | 28.15 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 15.83 | 330  | 43675    | 44.16 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 12.95 | 172  | 166628   | 29.88 | ng    | 0.00     |
| 78) Terphenyl-d14              | 19.71 | 244  | 222171   | 24.95 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 70) Phenanthrene               | 17.12 | 178  | 54315    | 6.18  | ng    | 94       |
| 74) Fluoranthene               | 19.14 | 202  | 107238   | 10.15 | ng    | 98       |
| 77) Pyrene                     | 19.51 | 202  | 99833    | 8.77  | ng    | 100      |
| 80) Benzo(a)anthracene         | 21.25 | 228  | 54008    | 5.08  | ng    | 95       |
| 82) Chrysene                   | 21.30 | 228  | 51157    | 5.17  | ng    | 98       |
| 83) Bis(2-ethylhexyl)phthalate | 21.18 | 149  | 39724    | 5.40  | ng    | 98       |
| 85) Indeno(1,2,3-cd)pyrene     | 25.80 | 276  | 37054    | 3.13  | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 22.84 | 252  | 74773    | 6.93  | ng    | 98       |
| 88) Benzo(k)fluoranthene       | 22.88 | 252  | 23677m   | 2.31  | ng    |          |
| 89) Benzo(a)pyrene             | 23.41 | 252  | 53563    | 5.40  | ng    | 97       |
| 91) Benzo(g,h,i)perylene       | 26.50 | 276  | 39809    | 4.16  | ng    | # 91     |

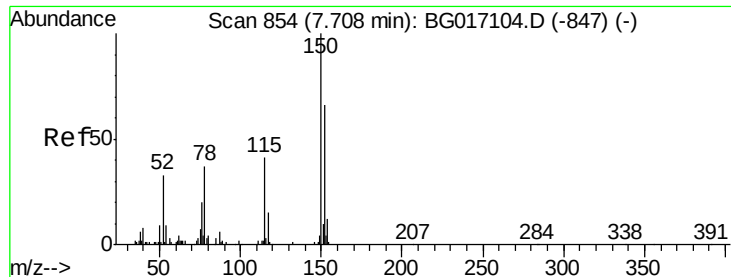
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.68 min Scan# 850

Delta R.T. 0.00 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

Instrument :

BNA\_G

ClientSampleId :

SB-29AS

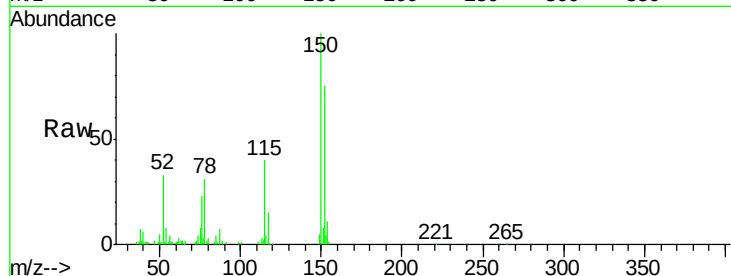
Tgt Ion:152 Resp: 34861

Ion Ratio Lower Upper

152 100

150 134.2 120.8 181.2

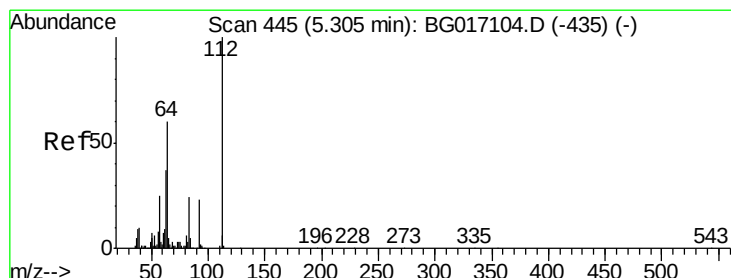
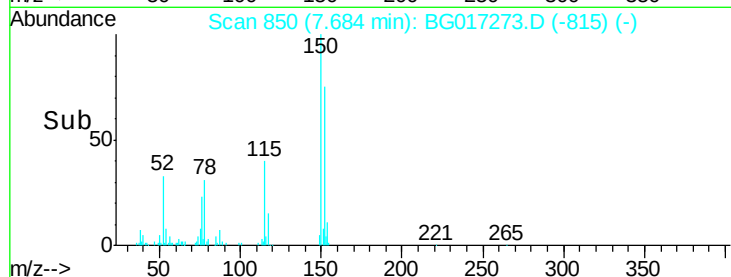
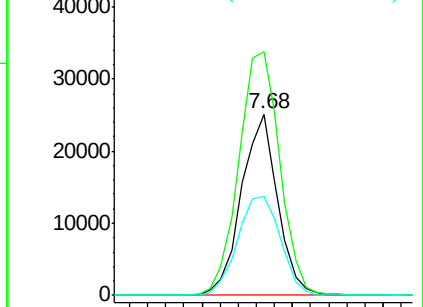
115 54.3 49.4 74.2



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: 45.97 ng

RT: 5.29 min Scan# 442

Delta R.T. 0.01 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

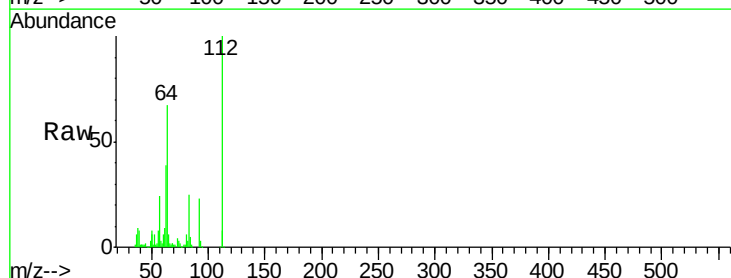
Tgt Ion:112 Resp: 90319

Ion Ratio Lower Upper

112 100

64 67.4 48.1 72.1

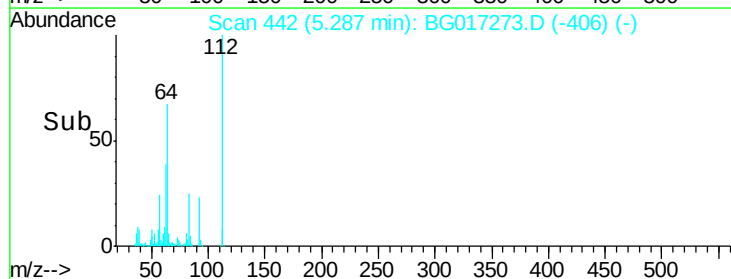
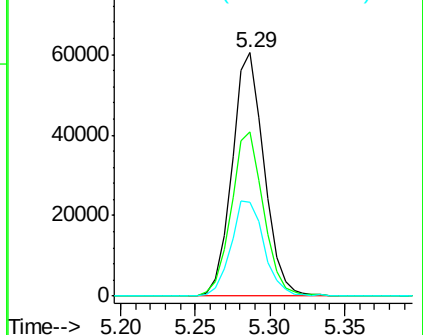
63 38.5 29.8 44.8

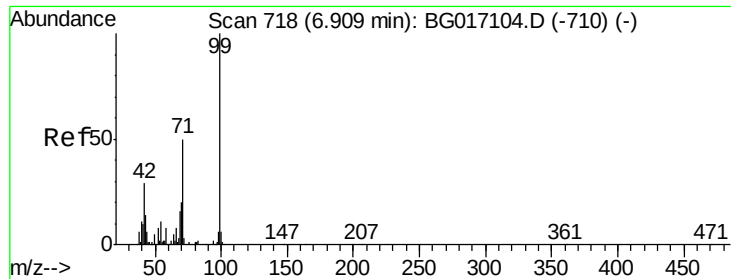


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 45.40 ng

RT: 6.89 min Scan# 715

Delta R.T. 0.01 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

Instrument :

BNA\_G

ClientSampleId :

SB-29AS

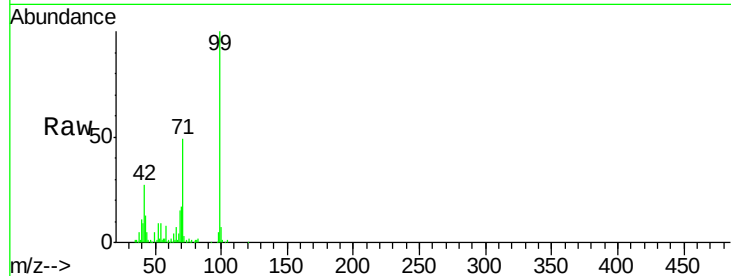
Tgt Ion: 99 Resp: 125196

Ion Ratio Lower Upper

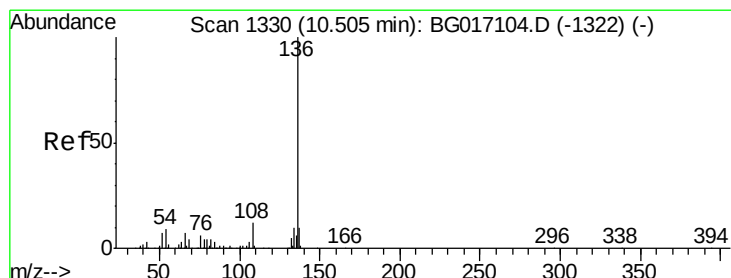
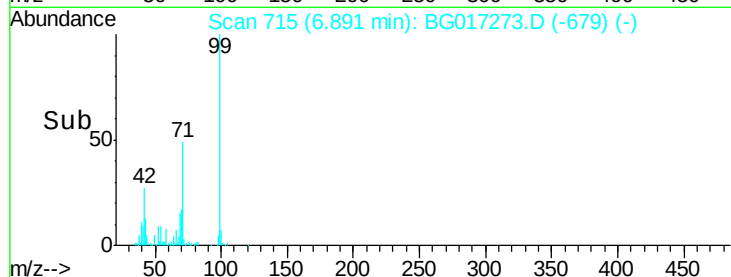
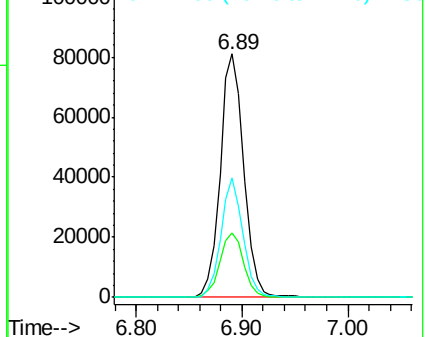
99 100

42 26.5 23.5 35.3

71 48.9 39.8 59.8



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.47 min Scan# 1325

Delta R.T. 0.00 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

Tgt Ion: 136 Resp: 143396

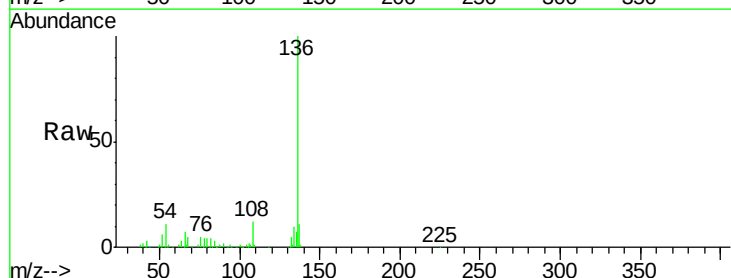
Ion Ratio Lower Upper

136 100

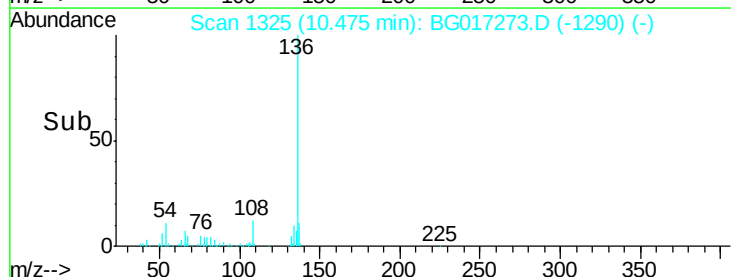
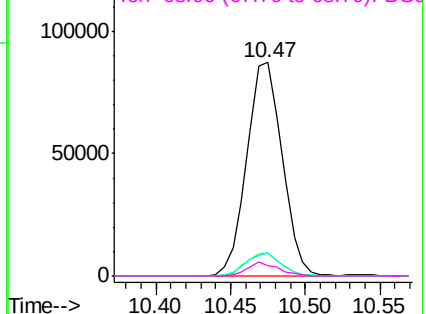
137 10.9 8.3 12.5

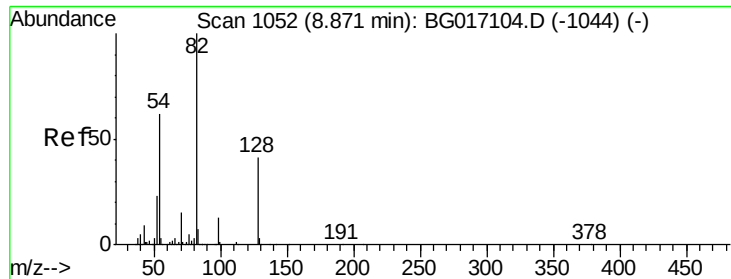
54 10.7 7.4 11.2

68 5.0 3.6 5.4



Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

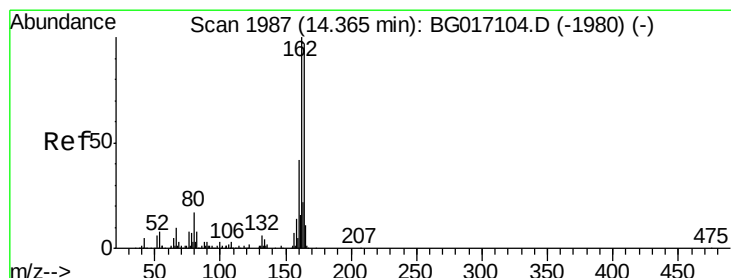
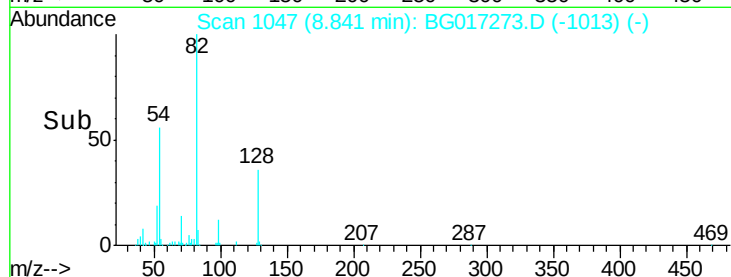
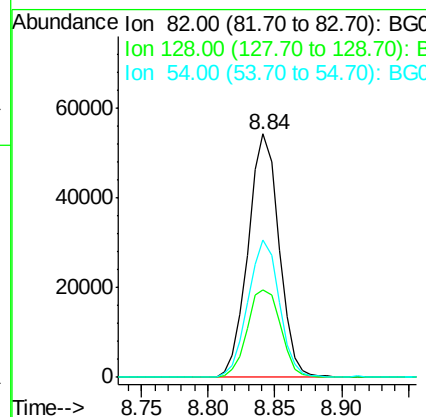
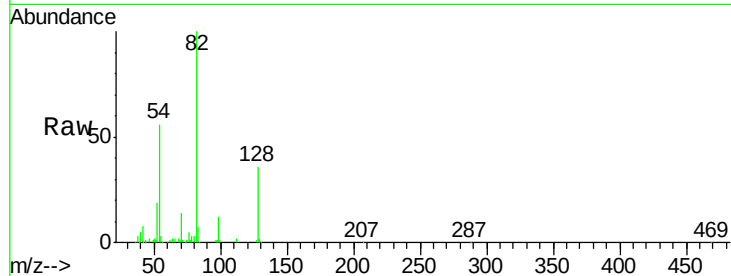




#23  
 Nitrobenzene-d5  
 Concen: 28.15 ng  
 RT: 8.84 min Scan# 1047  
 Delta R.T. -0.00 min  
 Lab File: BG017273.D  
 Acq: 23 May 2015 9:06

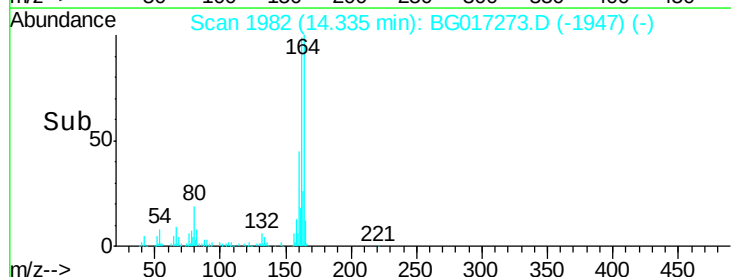
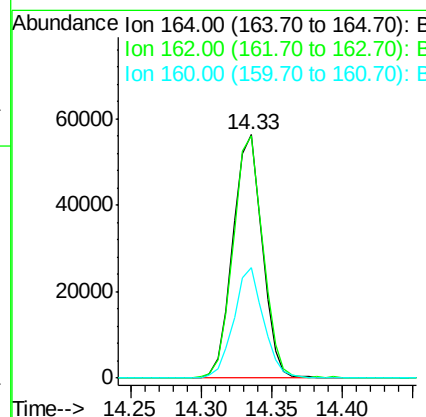
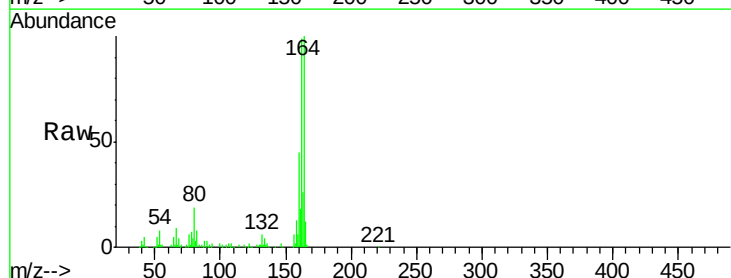
Instrument :  
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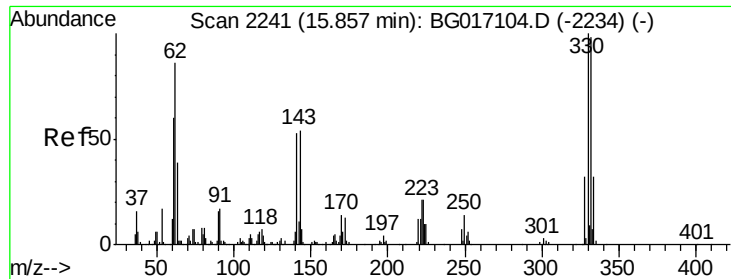
Tgt Ion: 82 Resp: 86464  
 Ion Ratio Lower Upper  
 82 100  
 128 36.1 32.6 49.0  
 54 56.4 49.6 74.4



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.33 min Scan# 1982  
 Delta R.T. 0.00 min  
 Lab File: BG017273.D  
 Acq: 23 May 2015 9:06

Tgt Ion: 164 Resp: 81823  
 Ion Ratio Lower Upper  
 164 100  
 162 99.3 82.1 123.1  
 160 45.4 34.8 52.2

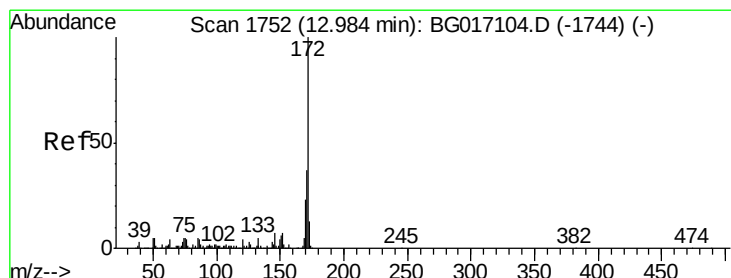
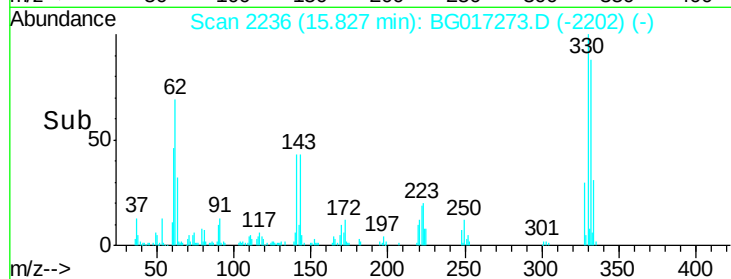
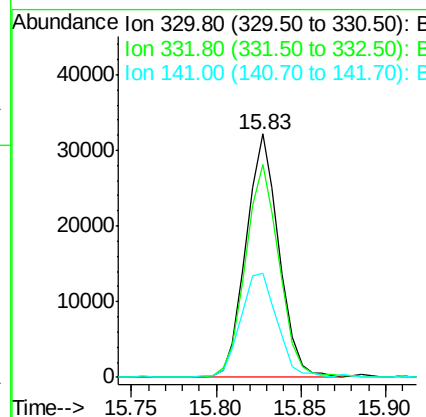
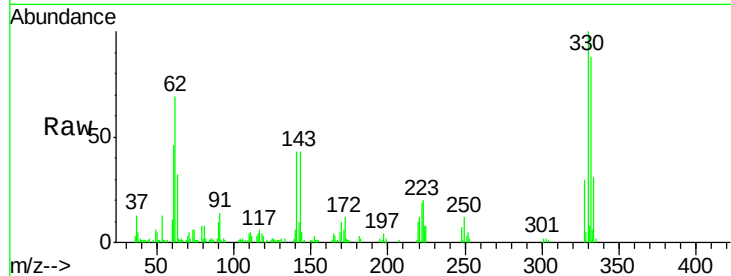




#41  
 2,4,6-Tribromophenol  
 Concen: 44.16 ng  
 RT: 15.83 min Scan# 2236  
 Delta R.T. -0.00 min  
 Lab File: BG017273.D  
 Acq: 23 May 2015 9:06

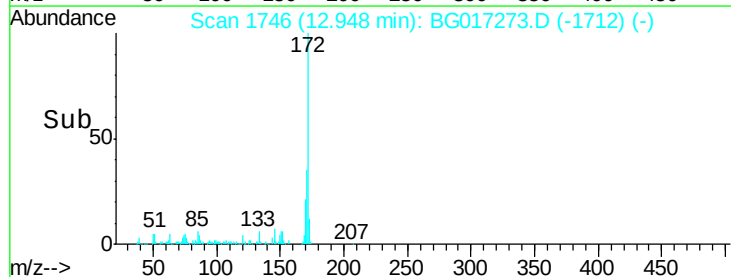
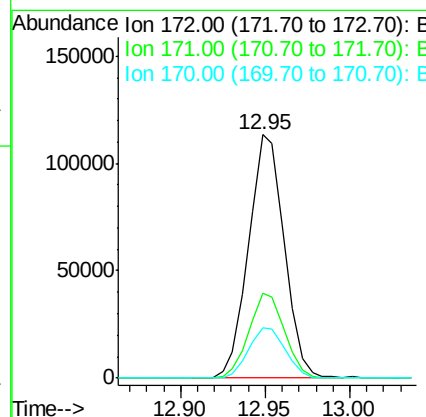
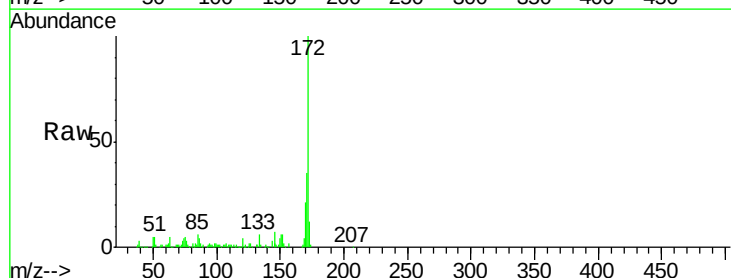
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-29AS

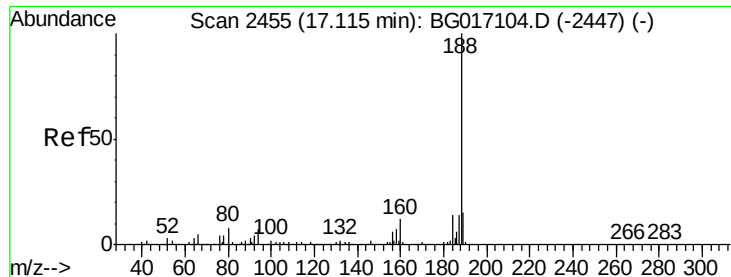
Tgt Ion: 330 Resp: 43675  
 Ion Ratio Lower Upper  
 330 100  
 332 89.6 76.9 115.3  
 141 47.5 42.2 63.2



#44  
 2-Fluorobiphenyl  
 Concen: 29.88 ng  
 RT: 12.95 min Scan# 1746  
 Delta R.T. -0.00 min  
 Lab File: BG017273.D  
 Acq: 23 May 2015 9:06

Tgt Ion: 172 Resp: 166628  
 Ion Ratio Lower Upper  
 172 100  
 171 34.7 29.7 44.5  
 170 20.8 18.4 27.6

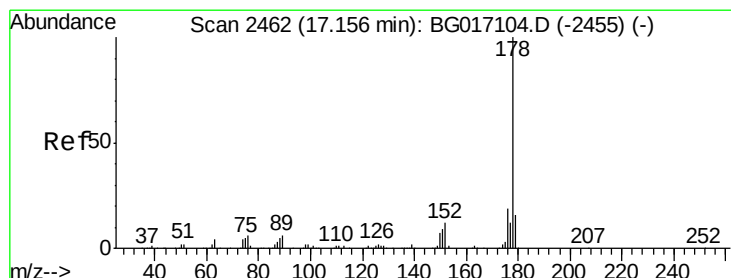
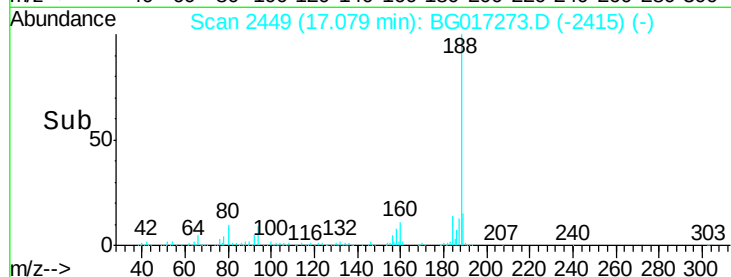
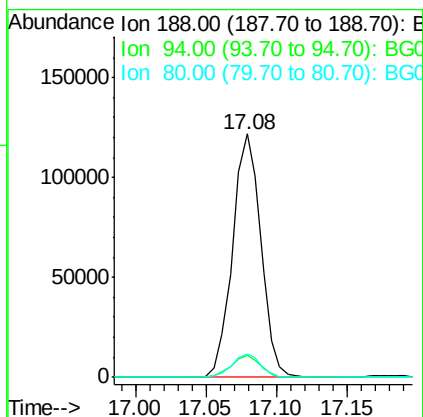
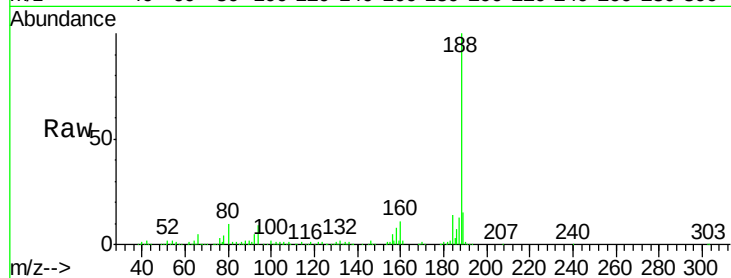




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.08 min Scan# 2449  
Delta R.T. -0.00 min  
Lab File: BG017273.D  
Acq: 23 May 2015 9:06

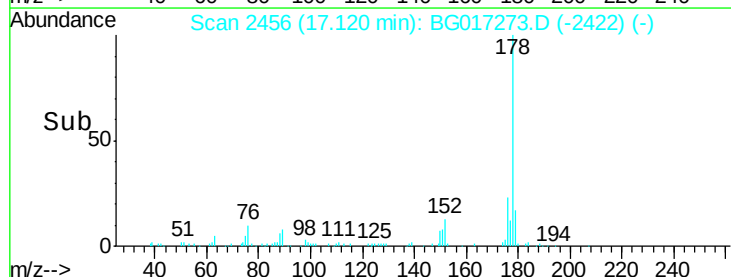
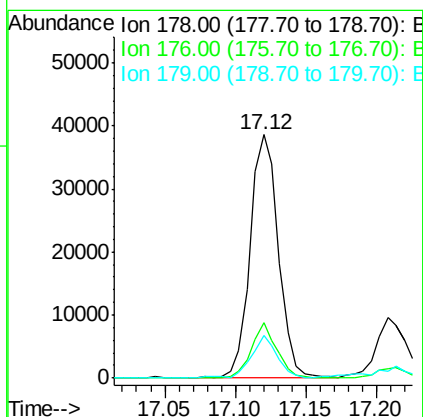
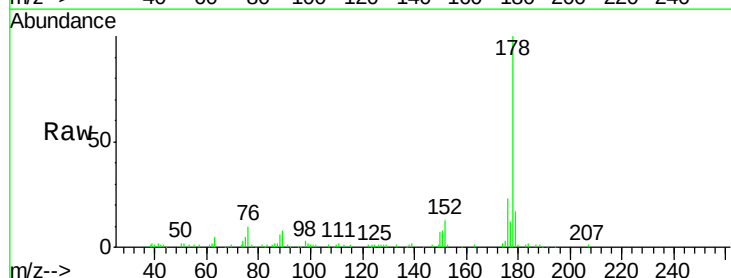
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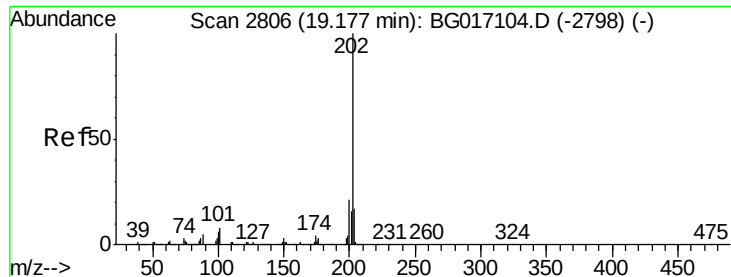
Tgt Ion:188 Resp: 170569  
Ion Ratio Lower Upper  
188 100  
94 9.1 5.8 8.6#  
80 9.6 6.5 9.7



#70  
Phenanthrene  
Concen: 6.18 ng  
RT: 17.12 min Scan# 2456  
Delta R.T. -0.00 min  
Lab File: BG017273.D  
Acq: 23 May 2015 9:06

Tgt Ion:178 Resp: 54315  
Ion Ratio Lower Upper  
178 100  
176 22.9 15.4 23.2  
179 17.4 12.5 18.7





#74

Fluoranthene

Concen: 10.15 ng

RT: 19.14 min Scan# 2800

Delta R.T. -0.00 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

Instrument :

BNA\_G

ClientSampled :

SB-29AS

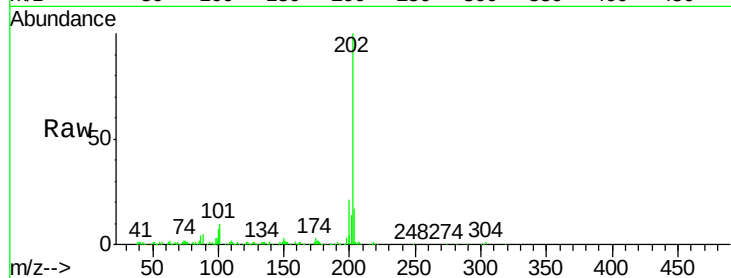
Tgt Ion:202 Resp: 107238

Ion Ratio Lower Upper

202 100

101 10.4 0.0 28.3

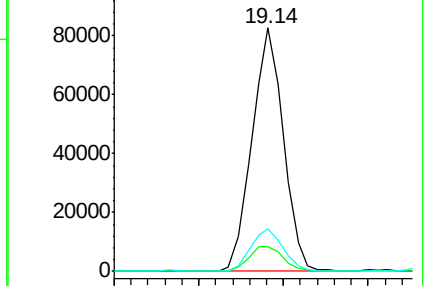
203 17.3 0.0 37.4



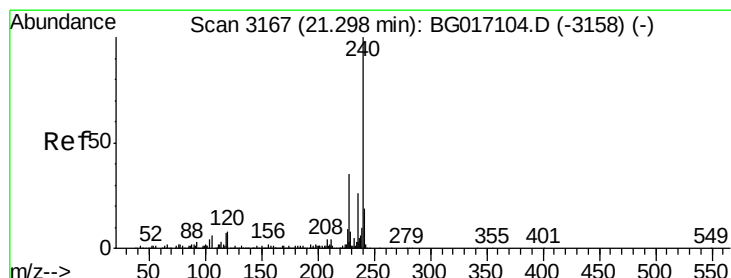
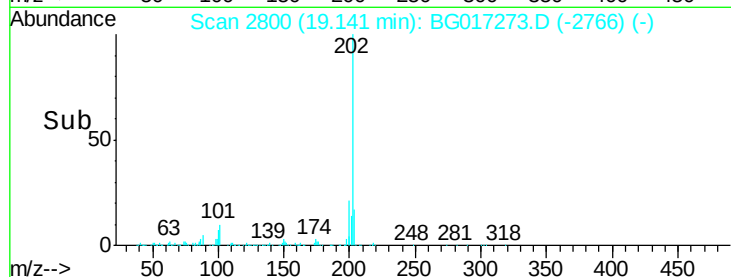
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time--> 19.05 19.10 19.15 19.20



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.26 min Scan# 3161

Delta R.T. -0.00 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

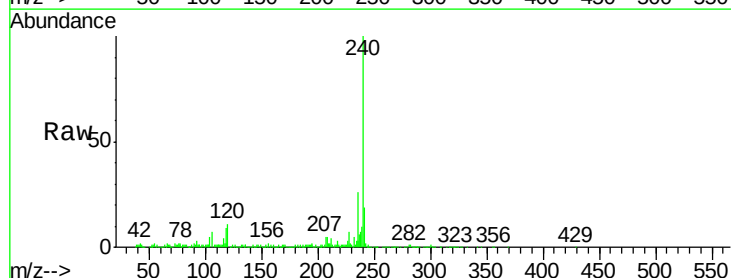
Tgt Ion:240 Resp: 185550

Ion Ratio Lower Upper

240 100

120 11.1 6.0 9.0#

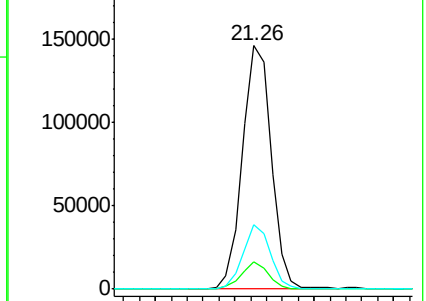
236 26.4 20.5 30.7



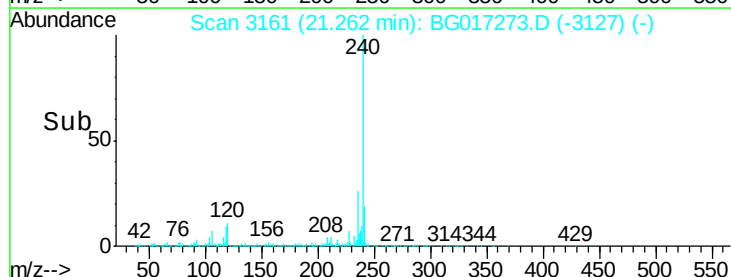
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

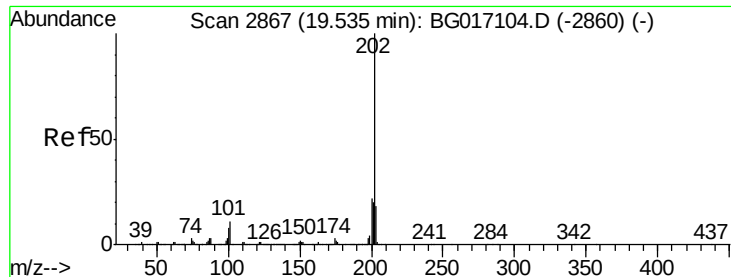
Ion 236.00 (235.70 to 236.70): E



Time--> 21.20 21.25 21.30







#77

Pyrene

Concen: 8.77 ng

RT: 19.51 min Scan# 2862

Delta R.T. 0.00 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

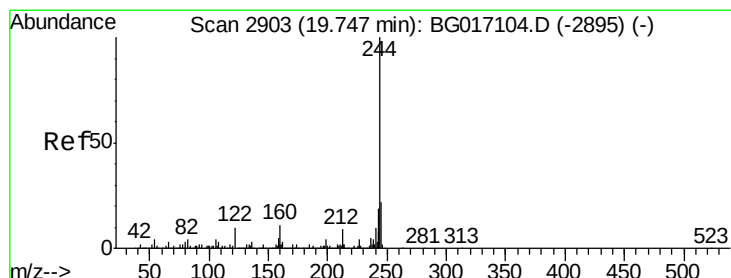
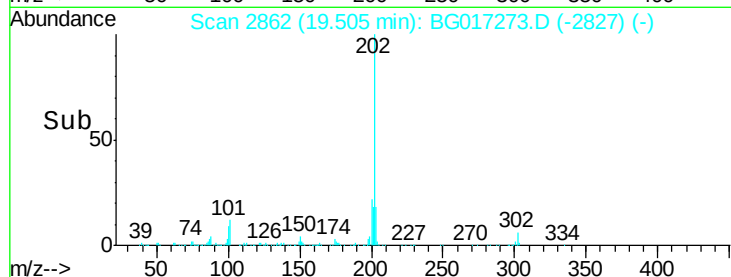
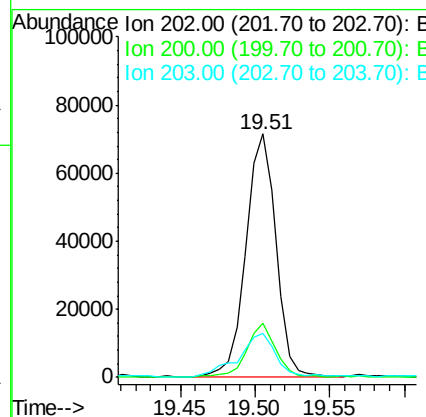
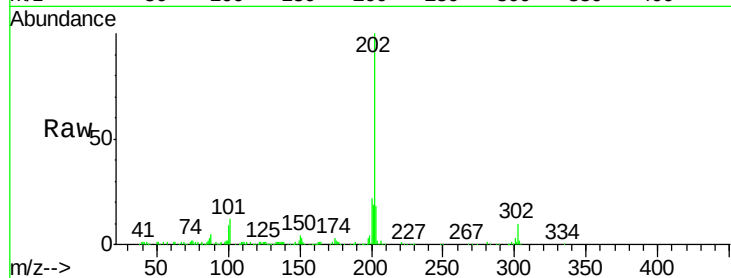
Instrument :

BNA\_G

ClientSampleId :

SB-29AS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 99833 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 200      | 22.0  | 17.8  | 26.8  |
| 203      | 18.1  | 14.4  | 21.6  |



#78

Terphenyl-d14

Concen: 24.95 ng

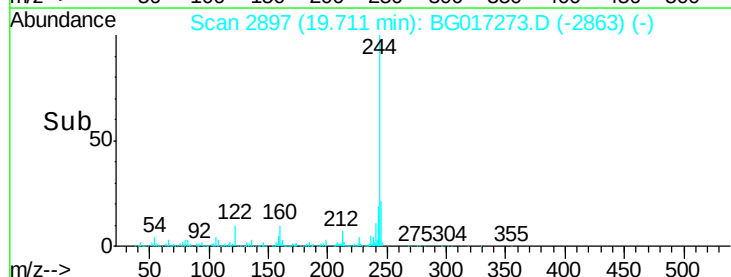
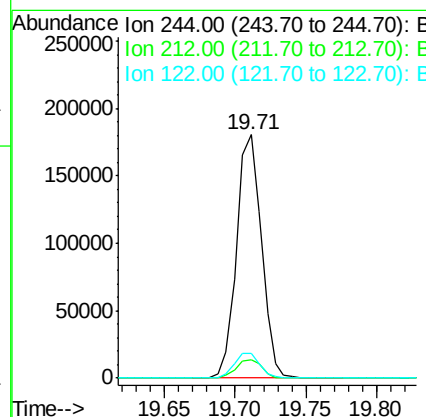
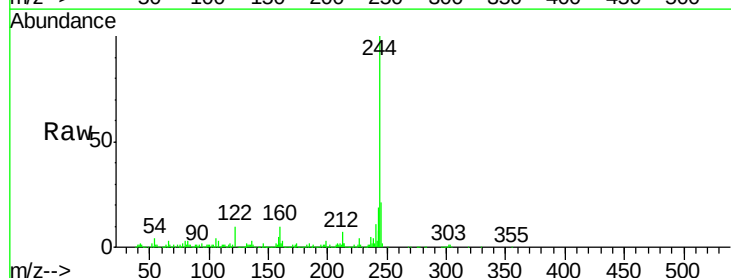
RT: 19.71 min Scan# 2897

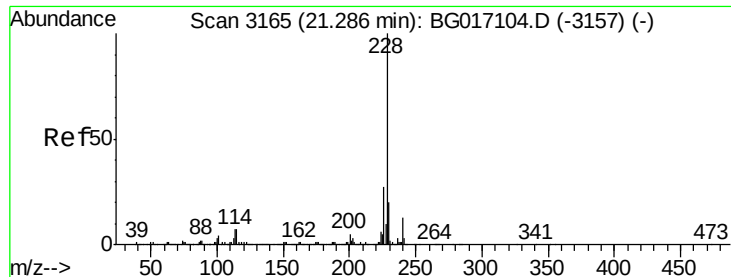
Delta R.T. -0.00 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 244   | Resp: | 222171 |
| Ion      | Ratio | Lower | Upper  |
| 244      | 100   |       |        |
| 212      | 7.4   | 7.0   | 10.4   |
| 122      | 10.2  | 8.4   | 12.6   |





#80

Benzo(a)anthracene

Concen: 5.08 ng

RT: 21.25 min Scan# 3159

Delta R.T. 0.00 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

Instrument :

BNA\_G

ClientSampleId :

SB-29AS

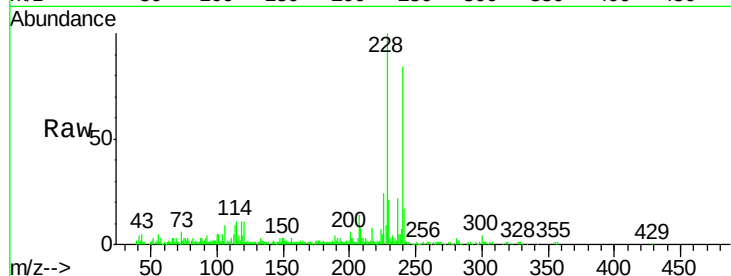
Tgt Ion:228 Resp: 54008

Ion Ratio Lower Upper

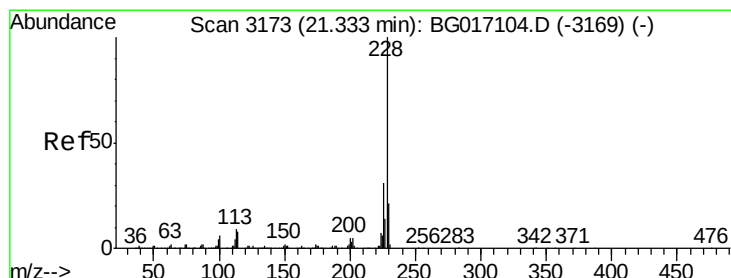
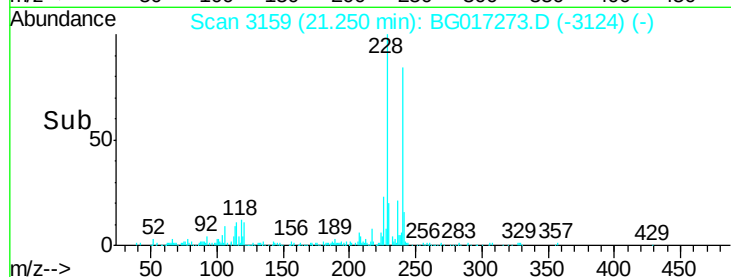
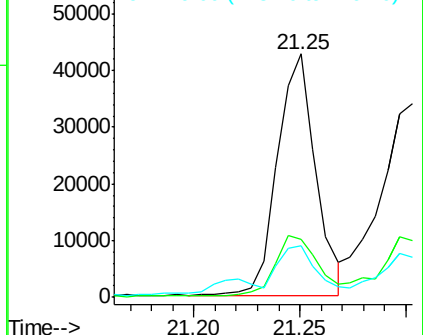
228 100

226 23.7 21.7 32.5

229 21.2 16.1 24.1



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



#82

Chrysene

Concen: 5.17 ng

RT: 21.30 min Scan# 3168

Delta R.T. 0.00 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

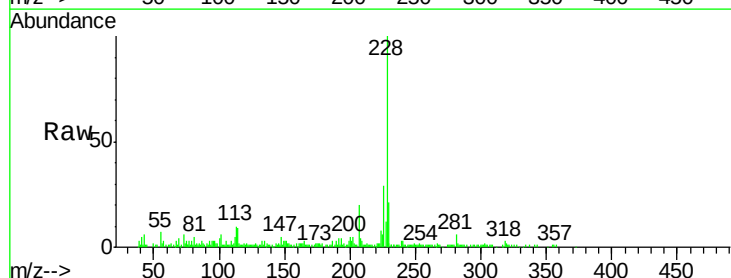
Tgt Ion:228 Resp: 51157

Ion Ratio Lower Upper

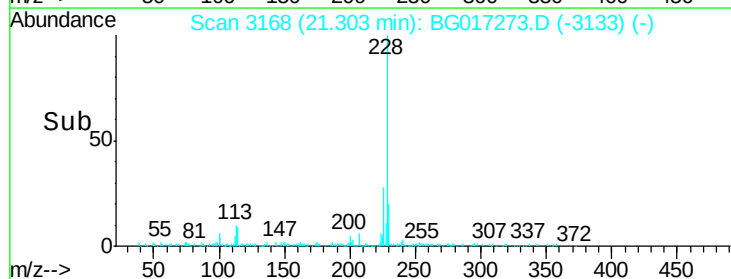
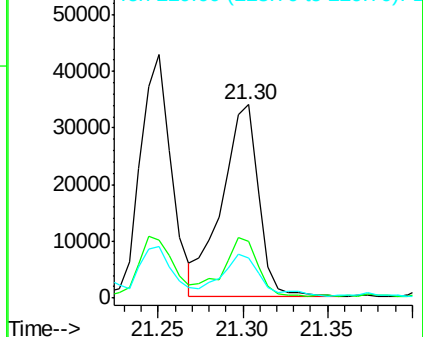
228 100

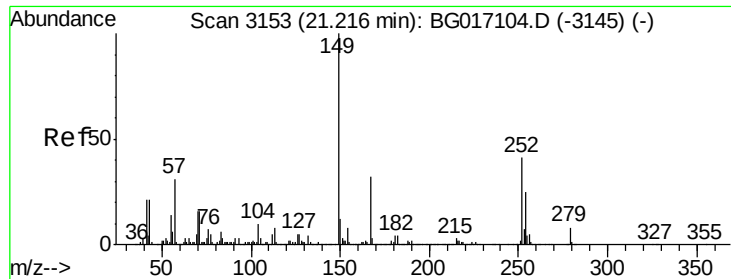
226 29.2 24.8 37.2

229 20.7 17.0 25.6



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

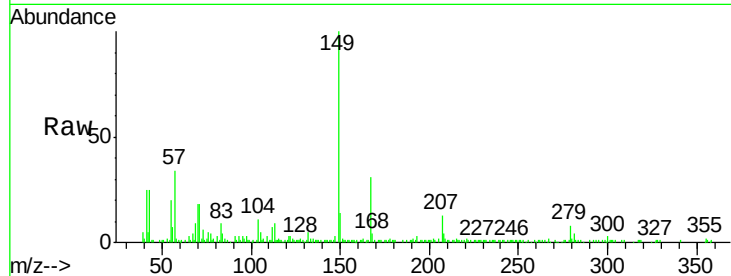




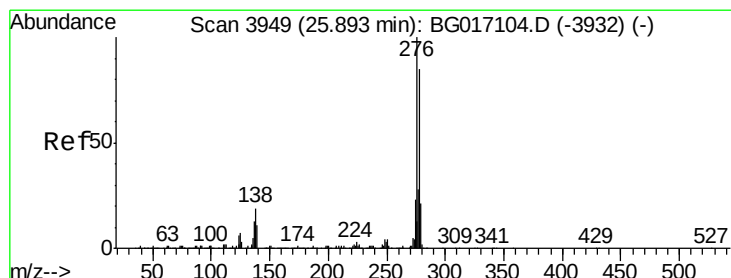
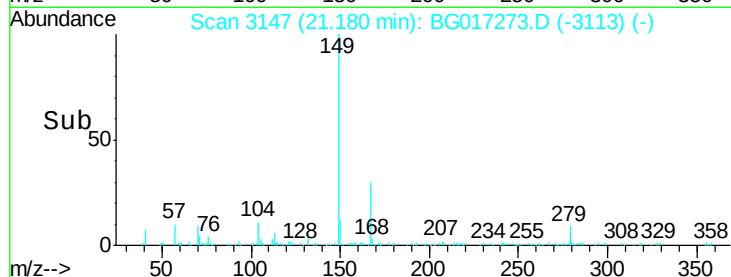
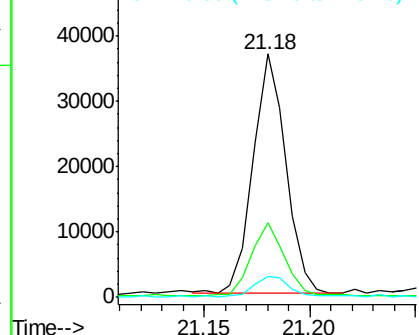
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 5.40 ng  
 RT: 21.18 min Scan# 3147  
 Delta R.T. -0.00 min  
 Lab File: BG017273.D  
 Acq: 23 May 2015 9:06

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-29AS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 30.7  | 25.4  | 38.2  |
| 279     | 8.3   | 6.8   | 10.2  |

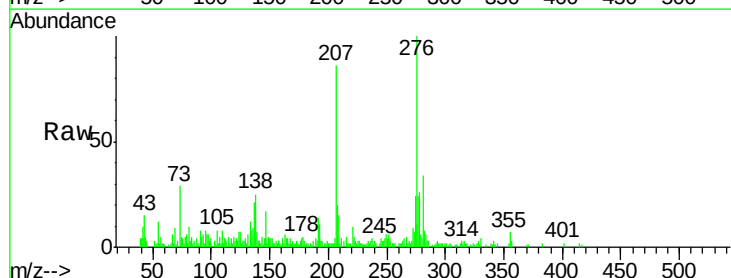


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

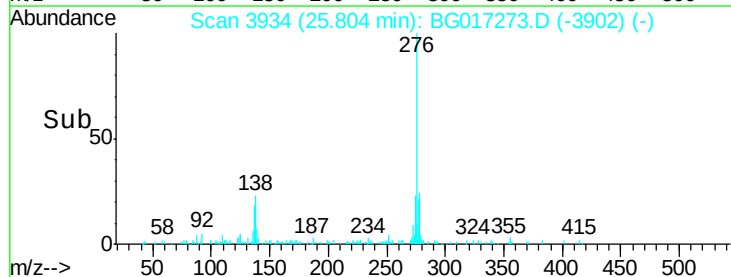
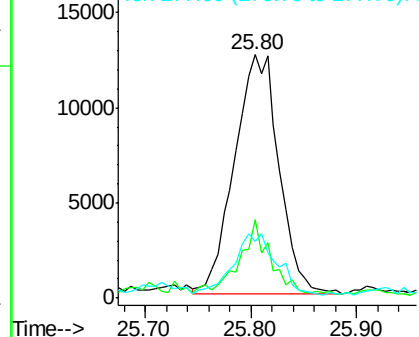


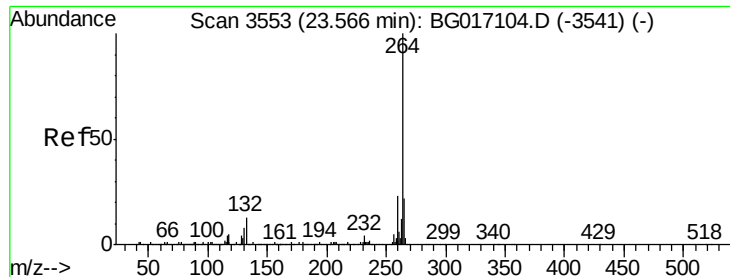
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.13 ng  
 RT: 25.80 min Scan# 3934  
 Delta R.T. -0.01 min  
 Lab File: BG017273.D  
 Acq: 23 May 2015 9:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 21.4  | 16.0  | 24.0  |
| 277     | 24.7  | 20.9  | 31.3  |



Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 23.52 min Scan# 3545

Delta R.T. 0.00 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

Instrument :

BNA\_G

ClientSampleId :

SB-29AS

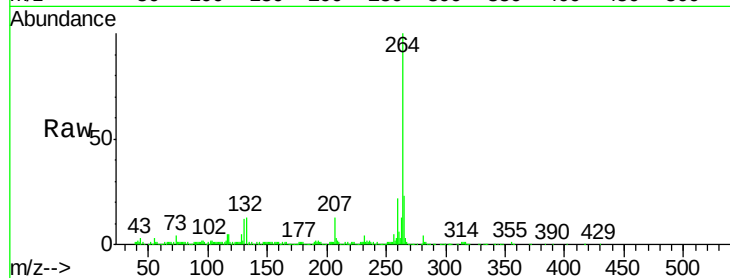
Tgt Ion:264 Resp: 185149

Ion Ratio Lower Upper

264 100

260 21.7 18.0 27.0

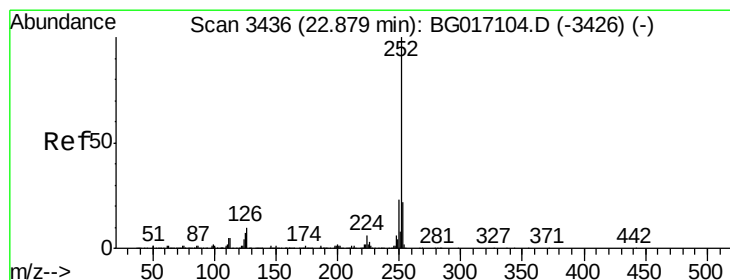
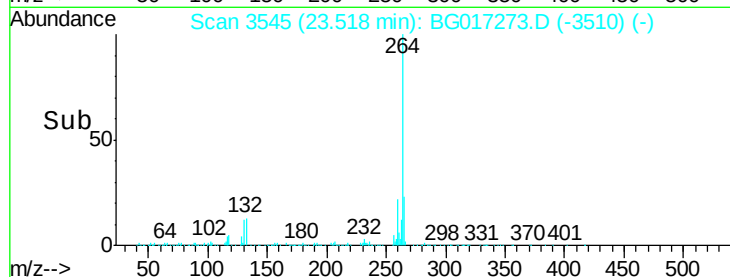
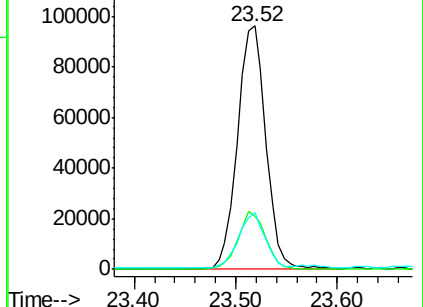
265 23.4 17.4 26.0



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 6.93 ng

RT: 22.84 min Scan# 3429

Delta R.T. 0.00 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

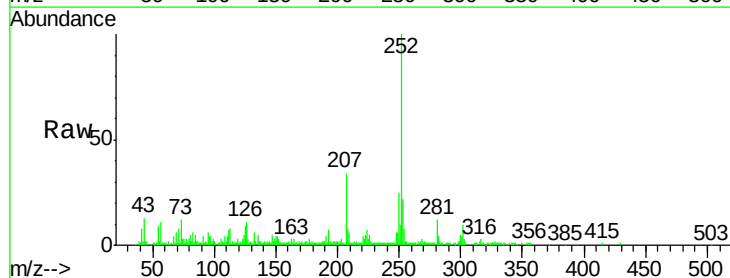
Tgt Ion:252 Resp: 74773

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.2

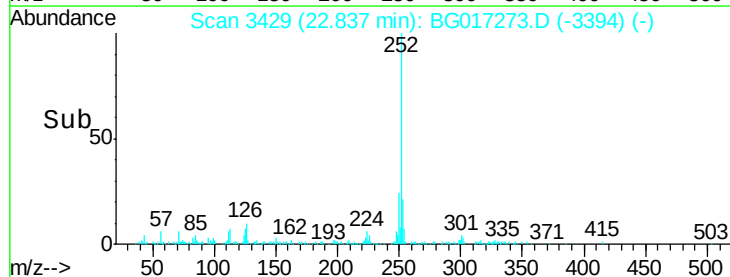
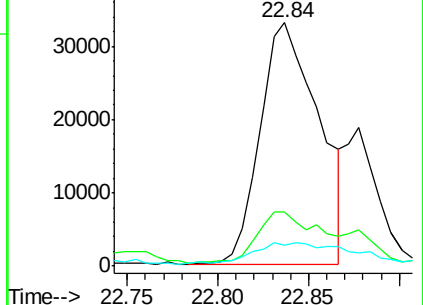
125 8.7 5.9 8.9

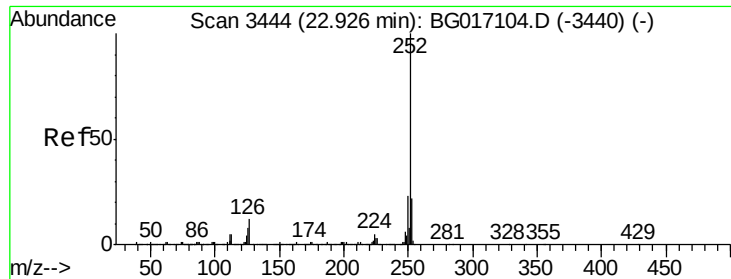


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 2.31 ng m

RT: 22.88 min Scan# 3436

Delta R.T. -0.00 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

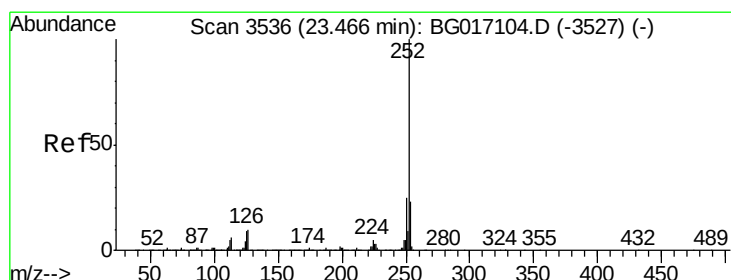
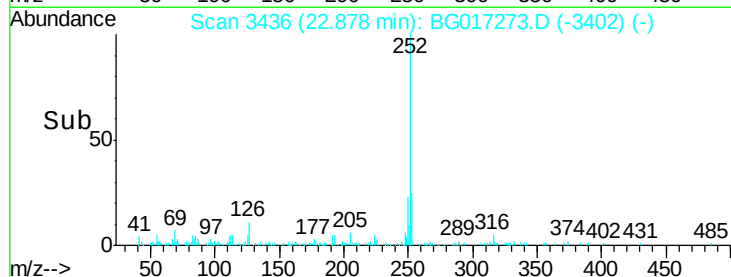
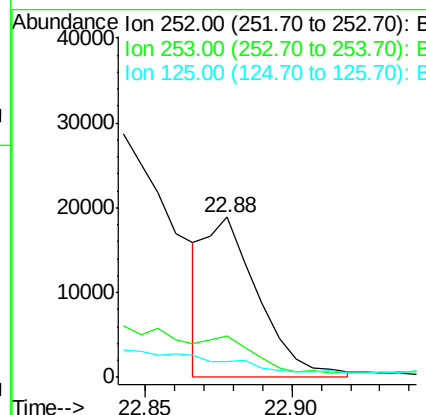
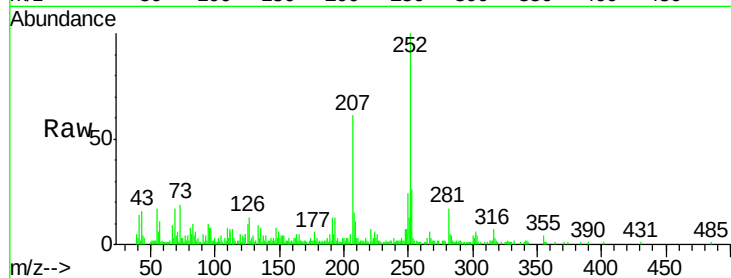
Instrument :

BNA\_G

ClientSampleId :

SB-29AS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 23677 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.9  | 17.8  | 26.6  |
| 125       | 10.0  | 6.4   | 9.6#  |



#89

Benzo(a)pyrene

Concen: 5.40 ng

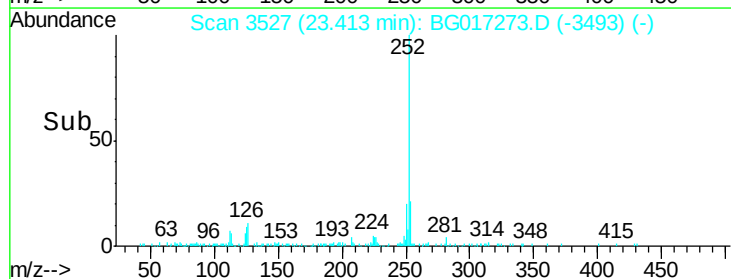
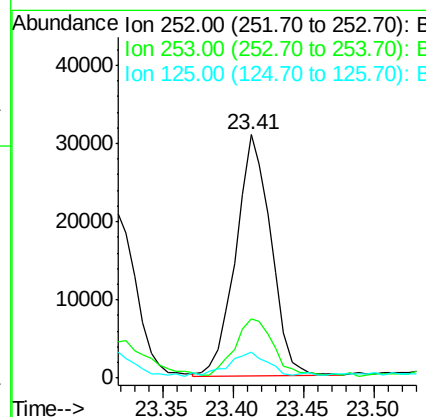
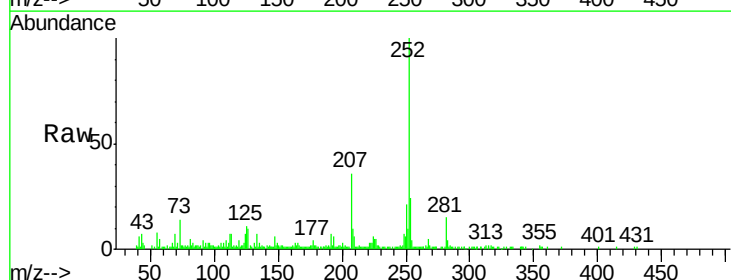
RT: 23.41 min Scan# 3527

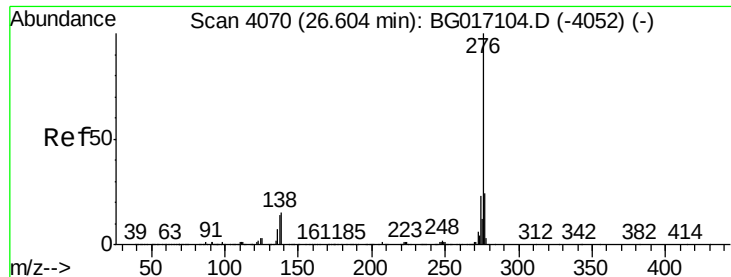
Delta R.T. -0.00 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 53563 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 18.4  | 27.6  |
| 125       | 10.7  | 7.2   | 10.8  |





#91

Benzo(g,h,i)perylene

Concen: 4.16 ng

RT: 26.50 min Scan# 4053

Delta R.T. -0.02 min

Lab File: BG017273.D

Acq: 23 May 2015 9:06

Instrument :

BNA\_G

ClientSampleId :

SB-29AS

Tgt Ion: 276 Resp: 39809

Ion Ratio Lower Upper

276 100

277 20.1 18.9 28.3

138 20.1 11.8 17.8#

