

Data Path : Z:\HPCHEM1\BNA M\DATA\BM103017\  
 Data File : BM012585.D  
 Acq On : 30 Oct 2017 22:14  
 Operator : SJ/JU  
 Sample : I5886-02  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ESNE2

Manual Integrations  
 APPROVED

Sohil  
 10/31/2017 7:47:15 PM

Quant Time: Oct 31 04:58:13 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Oct 31 04:46:13 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 314529   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.65 | 136  | 1219977  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.49 | 164  | 669512   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.23 | 188  | 1382891  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.40 | 240  | 1498874  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.70 | 264  | 1655374  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.35  | 96  | 33887m  | 5.50  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.02  | 99  | 638648  | 24.30 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.19  | 67  | 410944  | 26.35 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.39  | 132 | 527374  | 26.80 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.56  | 113 | 467597  | 20.82 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.01  | 128 | 251554  | 32.92 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.73  | 143 | 289672  | 36.80 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.27 | 165 | 532578  | 25.54 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.78 | 131 | 475861  | 21.64 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.89 | 166 | 1518832 | 25.97 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.18 | 160 | 1878888 | 27.16 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.69 | 143 | 172905  | 19.89 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.48 | 176 | 1264585 | 25.54 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.60 | 200 | 164809  | 24.63 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.33 | 188 | 1754201 | 26.62 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.62 | 212 | 1875650 | 27.28 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.55 | 264 | 2018039 | 25.66 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         |        | Ovalue |    |
|--------------------------------|-------|-----|---------|--------|--------|----|
| 6) Phenol                      | 7.05  | 94  | 105387  | 3.852  | ng/ul# | 86 |
| 44) Dimethylphthalate          | 13.94 | 163 | 98643   | 1.705  | ng/ul  | 98 |
| 69) Phenanthrene               | 17.27 | 178 | 373635  | 4.996  | ng/ul  | 99 |
| 74) Fluoranthene               | 19.28 | 202 | 1095604 | 12.929 | ng/ul# | 92 |
| 77) Pyrene                     | 19.64 | 202 | 914303  | 10.727 | ng/ul# | 91 |
| 80) Benzo(a)anthracene         | 21.39 | 228 | 508708  | 5.668  | ng/ul  | 98 |
| 81) Bis(2-ethylhexyl)phthalate | 21.32 | 149 | 51970   | 1.017  | ng/ul  | 98 |
| 82) Chrysene                   | 21.43 | 228 | 589963  | 7.393  | ng/ul  | 97 |
| 85) Benzo(b)fluoranthene       | 23.00 | 252 | 884519  | 8.644  | ng/ul# | 96 |
| 86) Benzo(k)fluoranthene       | 23.04 | 252 | 330625m | 3.433  | ng/ul  |    |
| 88) Benzo(a)pyrene             | 23.60 | 252 | 558347  | 5.723  | ng/ul# | 96 |
| 89) Indeno(1,2,3-cd)pyrene     | 26.02 | 276 | 479984  | 4.180  | ng/ul  | 98 |
| 90) Dibenzo(a,h)anthracene     | 26.03 | 278 | 122198  | 1.255  | ng/ul# | 89 |
| 91) Benzo(g,h,i)perylene       | 26.74 | 276 | 398417  | 4.281  | ng/ul# | 94 |

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

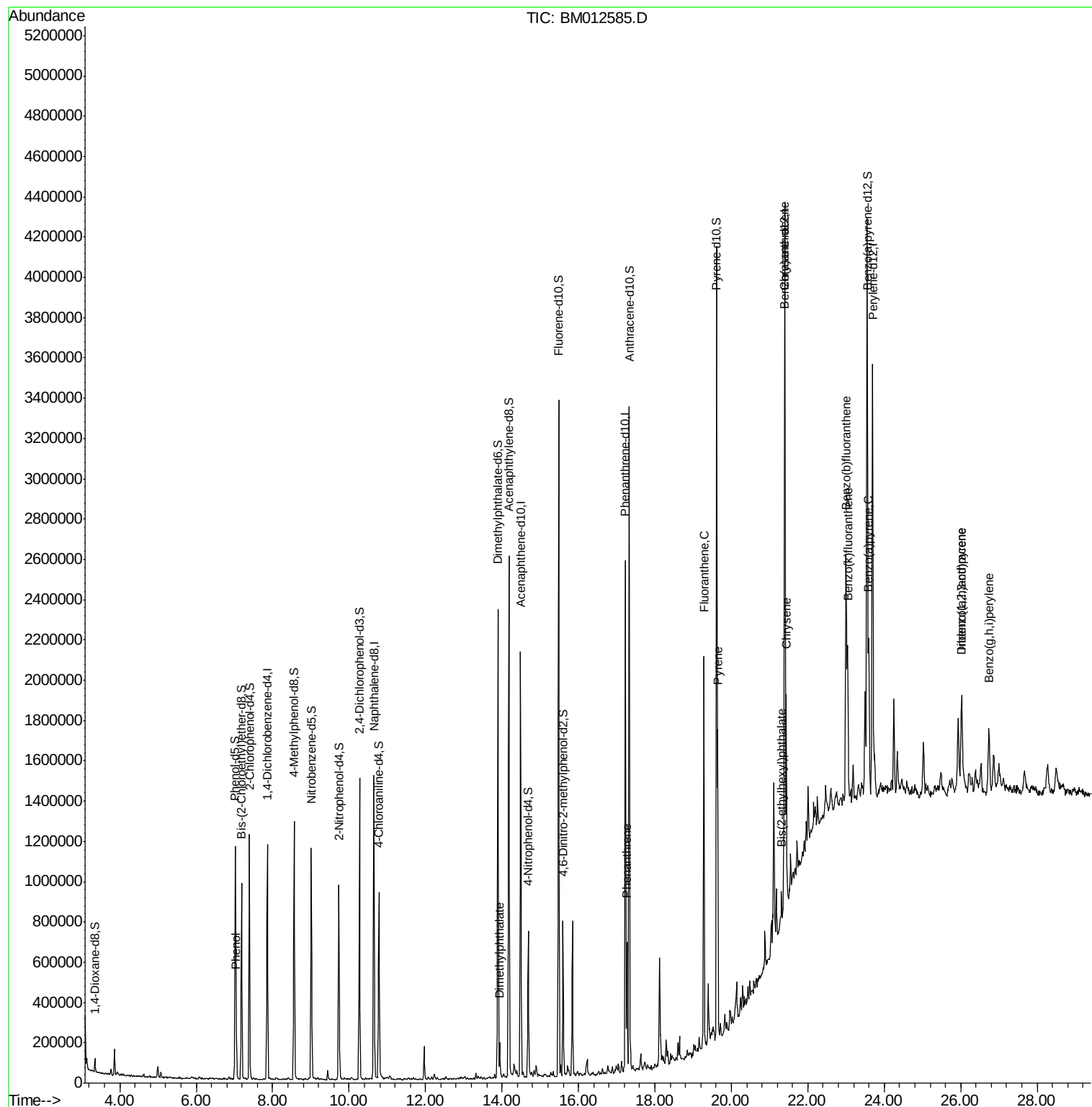
Data Path : Z:\HPCHEM1\BNA M\DATA\BM103017\  
Data File : BM012585.D  
Acq On : 30 Oct 2017 22:14  
Operator : SJ/JU  
Sample : I5886-02  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

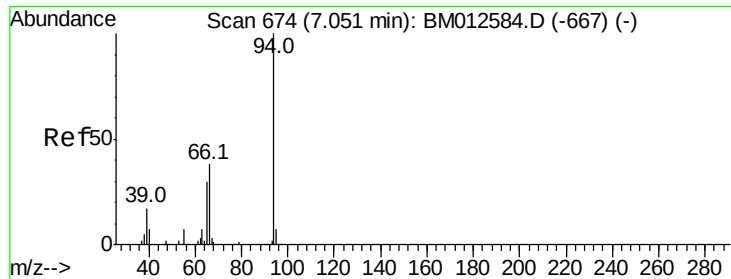
Instrument :  
BNA\_M  
ClientSampleId :  
ESNE2

Quant Time: Oct 31 04:58:13 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM102417.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Oct 31 04:46:13 2017  
Response via : Initial Calibration

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#6

Phenol

Concen: 3.852 ng/ul

RT: 7.05 min Scan# 674

Delta R.T. 0.00 min

Lab File: BM012585.D

Acq: 30 Oct 2017 22:14

Instrument :

BNA\_M

ClientSampled :

ESNE2

Tot Ion: 94 Resp: 105387

Ion Ratio Lower Upper

94 100

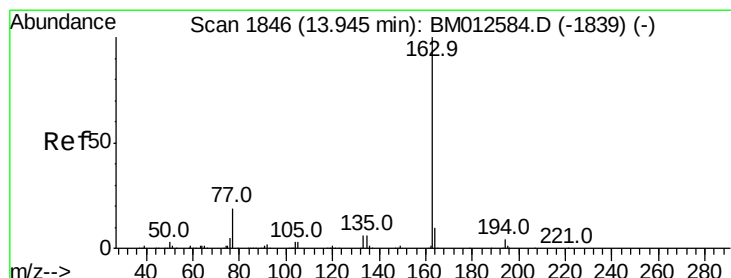
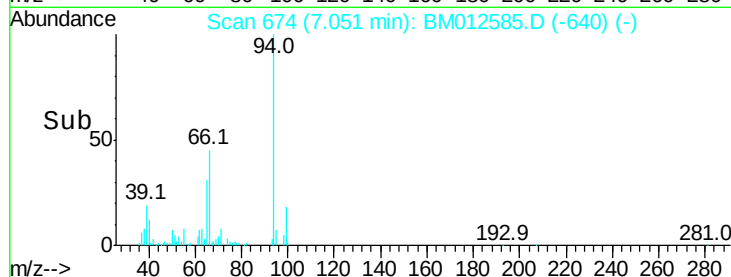
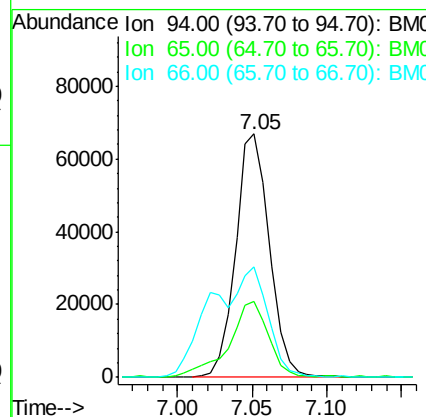
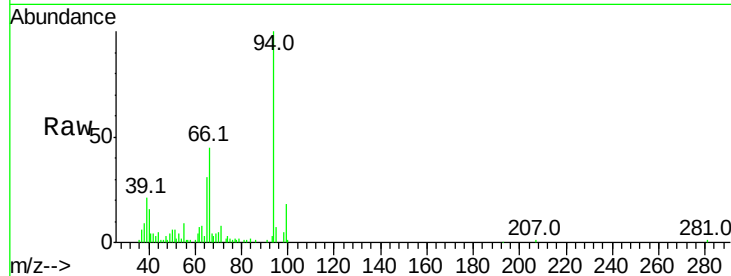
65 31.0 28.2 42.4

66 45.2 47.2 70.8#

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#44

Dimethylphthalate

Concen: 1.705 ng/ul

RT: 13.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BM012585.D

Acq: 30 Oct 2017 22:14

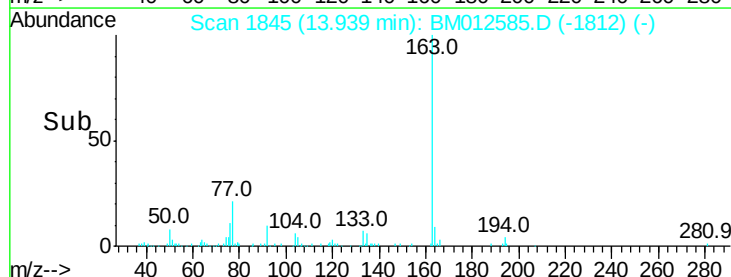
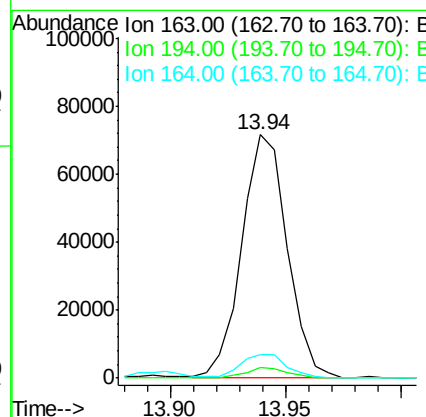
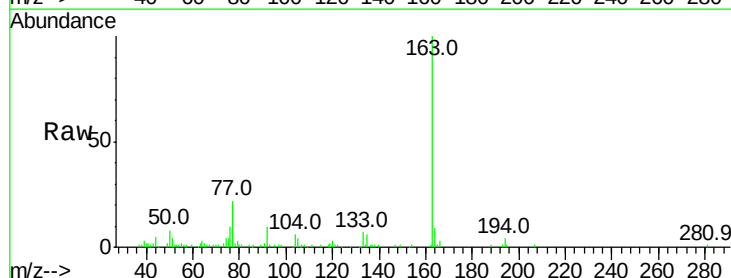
Tgt Ion:163 Resp: 98643

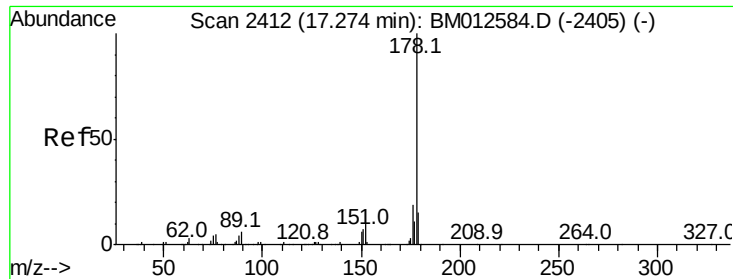
Ion Ratio Lower Upper

163 100

194 4.1 3.5 5.3

164 9.4 8.2 12.4





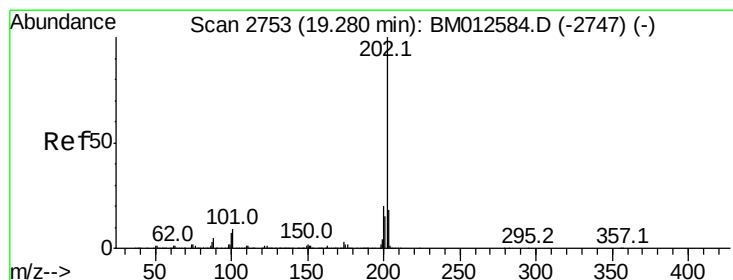
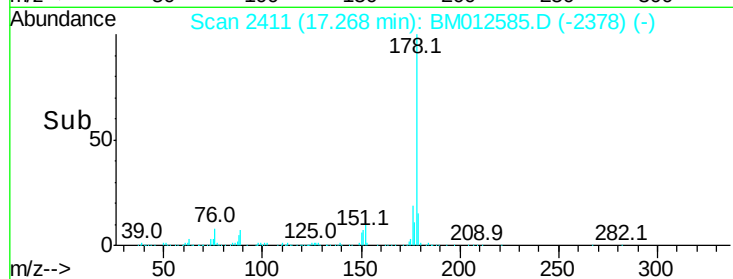
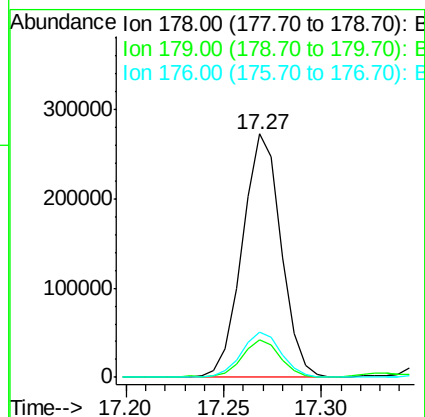
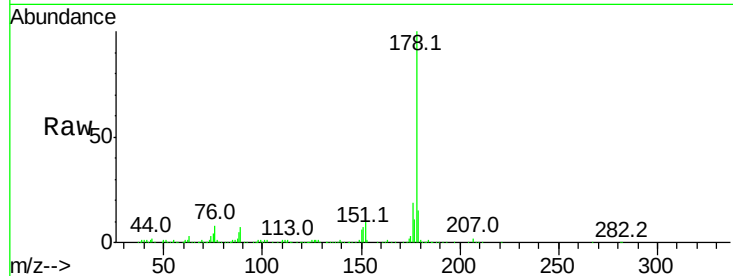
#69  
 Phenanthrene  
 Concen: 4.996 ng/ul  
 RT: 17.27 min Scan# 2411  
 Delta R.T. -0.01 min  
 Lab File: BM012585.D  
 Acq: 30 Oct 2017 22:14

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ESNE2

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 178     | 100   |      |       |       |
| 179     | 15.4  | 12.6 | 19.0  |       |
| 176     | 18.8  | 14.9 | 22.3  |       |

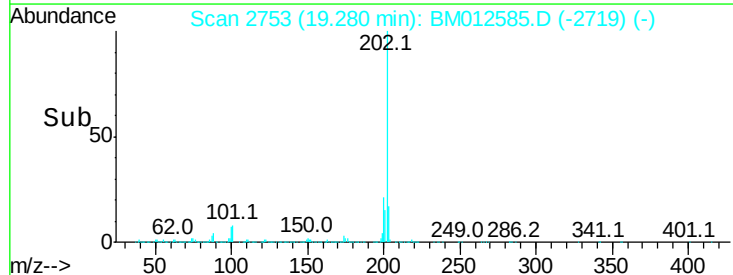
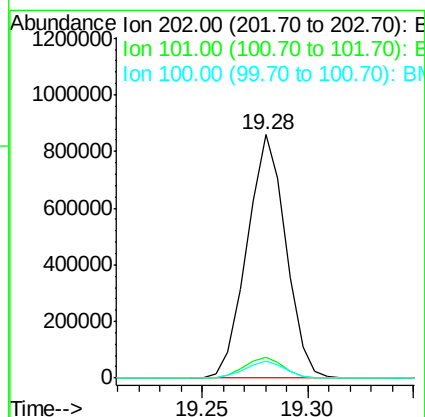
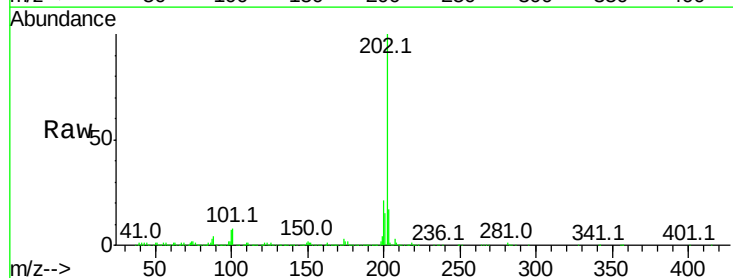
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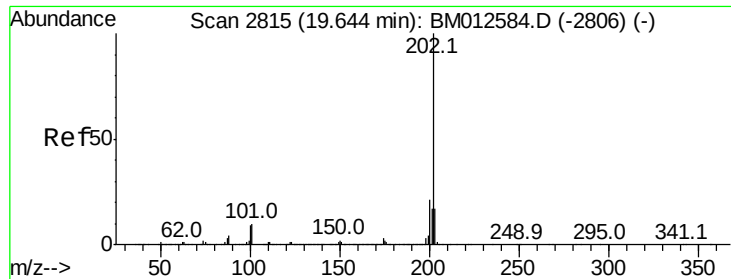
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#74  
 Fluoranthene  
 Concen: 12.929 ng/ul  
 RT: 19.28 min Scan# 2753  
 Delta R.T. 0.00 min  
 Lab File: BM012585.D  
 Acq: 30 Oct 2017 22:14

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 202     | 100   |      |       |       |
| 101     | 8.3   | 4.6  | 7.0#  |       |
| 100     | 6.9   | 3.4  | 5.2#  |       |





#77

Pvrene

Concen: 10.727 ng/ul

RT: 19.64 min Scan# 2815

Delta R.T. 0.00 min

Lab File: BM012585.D

Acq: 30 Oct 2017 22:14

Instrument :

BNA\_M

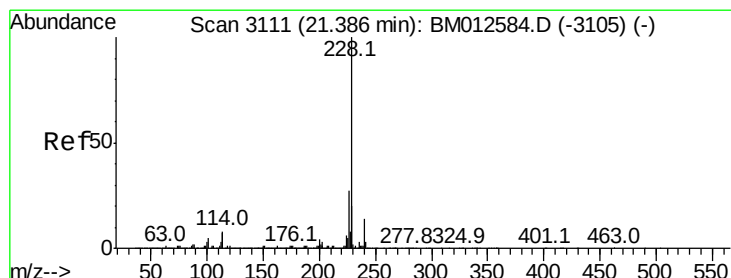
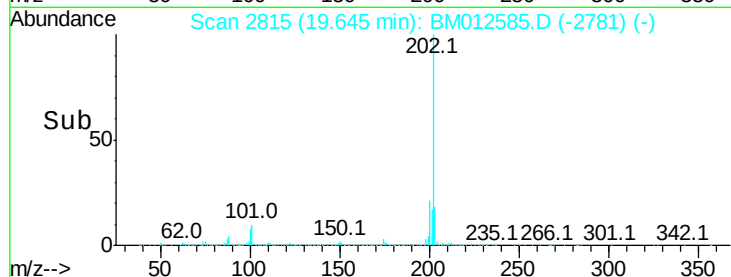
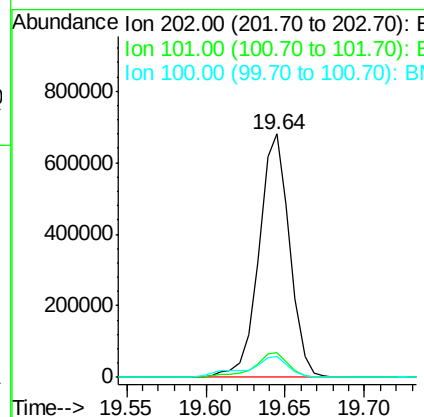
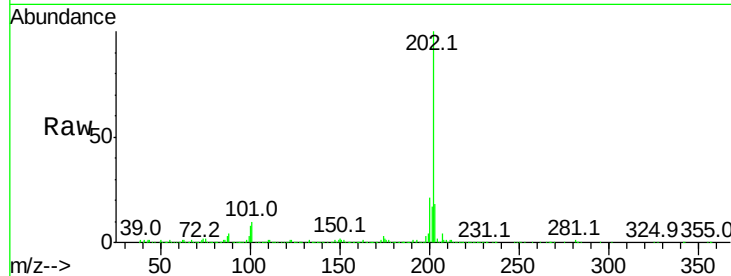
ClientSampleId :

ESNE2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 914303 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.3  | 5.1   | 7.7#   |
| 100       | 8.4   | 4.9   | 7.3#   |

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#80

Benzo(a)anthracene

Concen: 5.668 ng/ul

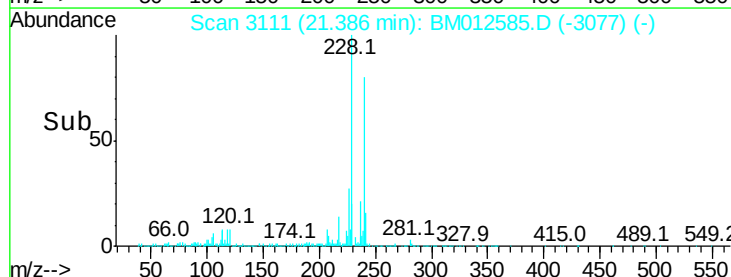
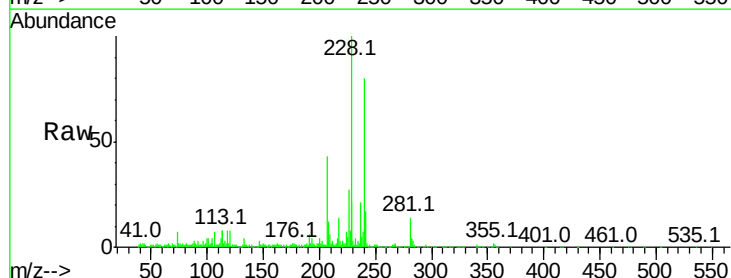
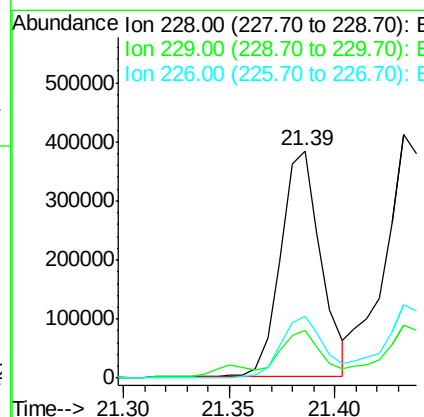
RT: 21.39 min Scan# 3111

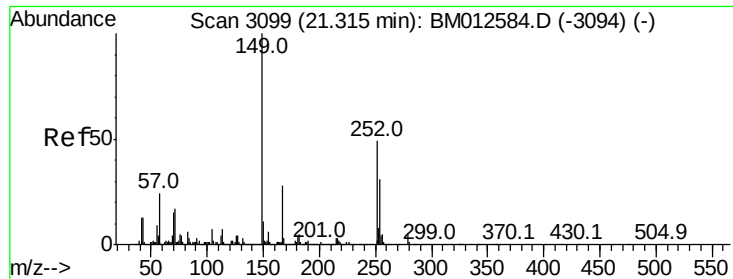
Delta R.T. 0.00 min

Lab File: BM012585.D

Acq: 30 Oct 2017 22:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 508708 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.0  | 15.4  | 23.0   |
| 226       | 27.3  | 21.4  | 32.0   |





#81

Bis(2-ethylhexyl)phthalate

Concen: 1.017 ng/ul

RT: 21.32 min Scan# 3099

Delta R.T. 0.00 min

Lab File: BM012585.D

Acq: 30 Oct 2017 22:14

Instrument :

BNA\_M

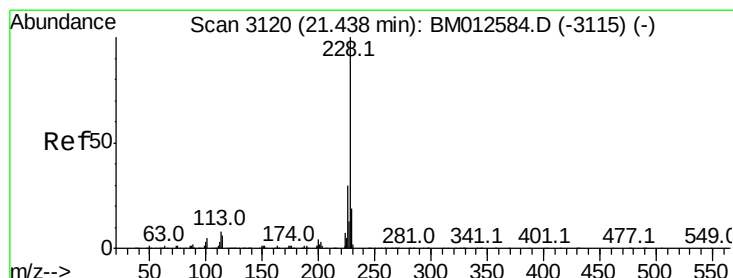
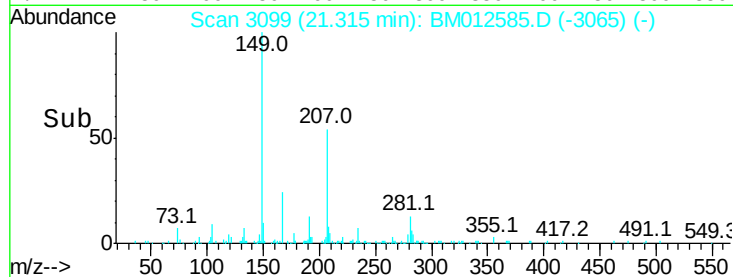
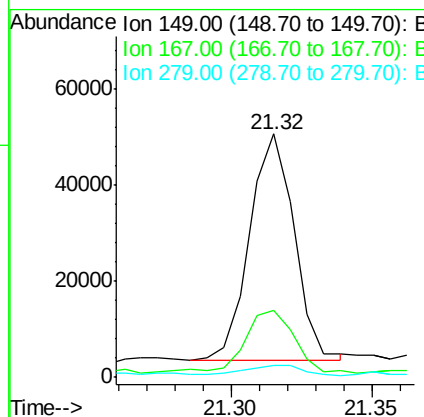
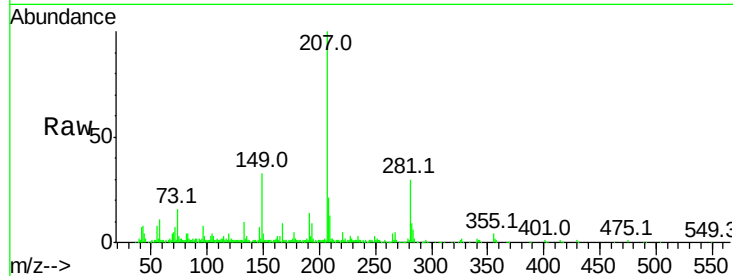
ClientSampleId :

ESNE2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 149   | Resp: | 51970 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 27.7  | 22.8  | 34.2  |
| 279       | 5.0   | 4.9   | 7.3   |

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#82

Chrysene

Concen: 7.393 ng/ul

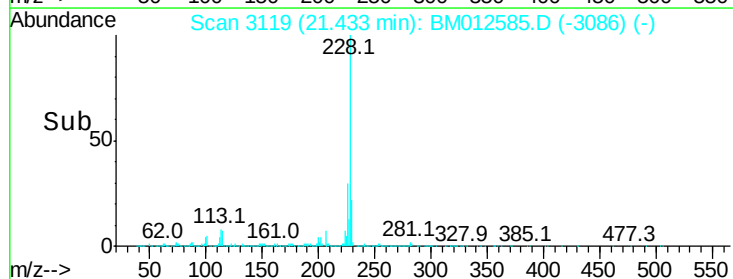
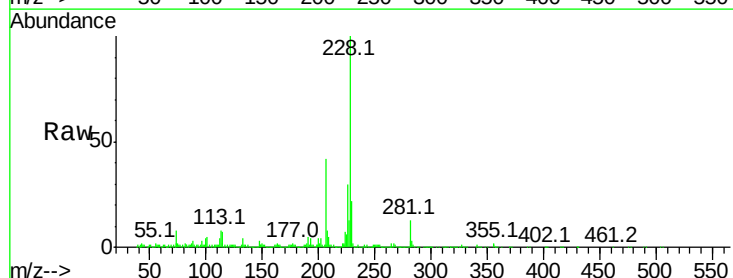
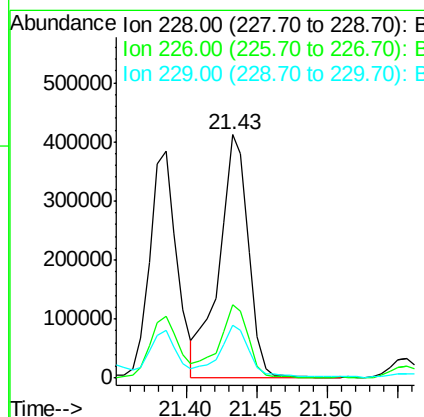
RT: 21.43 min Scan# 3119

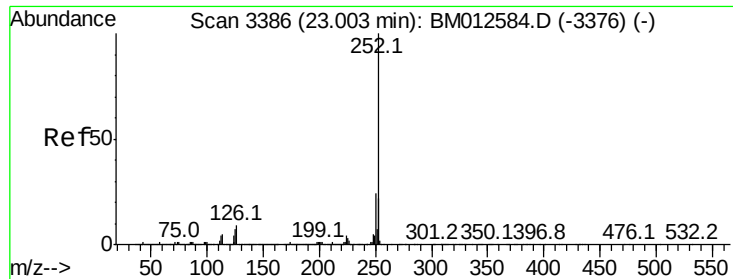
Delta R.T. -0.01 min

Lab File: BM012585.D

Acq: 30 Oct 2017 22:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 589963 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.1  | 23.4  | 35.2   |
| 229       | 21.9  | 15.5  | 23.3   |





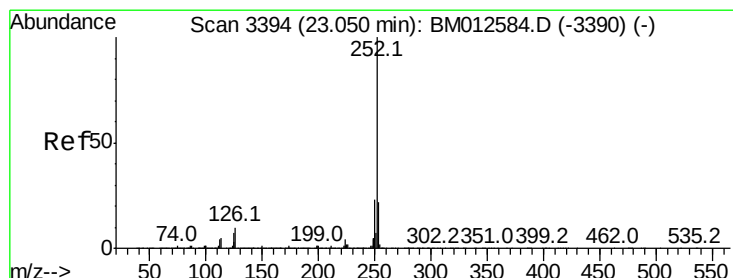
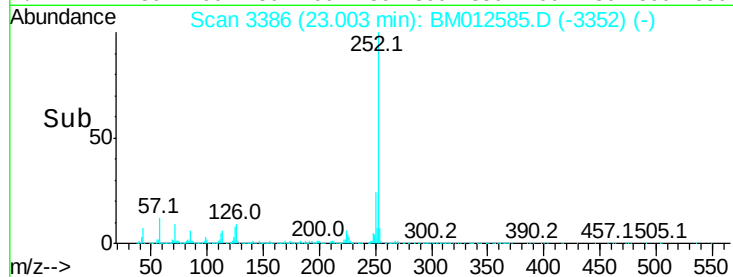
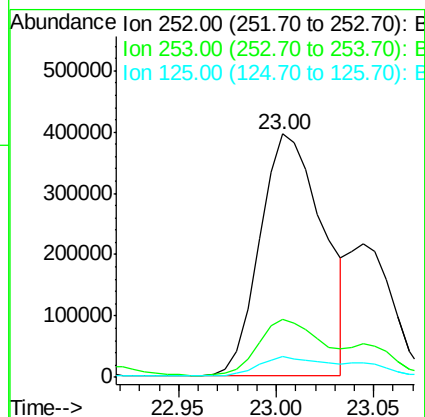
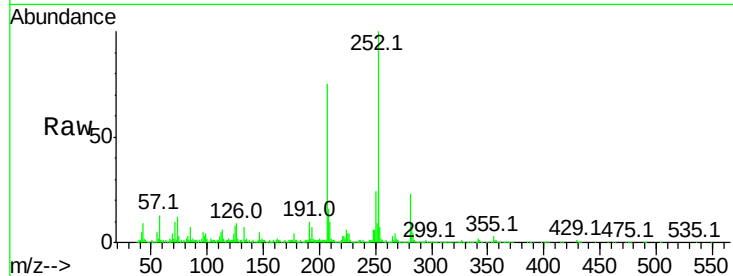
#85  
Benzo(b)fluoranthene  
Concen: 8.644 ng/ul  
RT: 23.00 min Scan# 3386  
Delta R.T. 0.00 min  
Lab File: BM012585.D  
Acq: 30 Oct 2017 22:14

Instrument :  
BNA\_M  
ClientSampled :  
ESNE2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 17.9  | 26.9  |
| 125     | 8.4   | 3.6   | 5.4   |

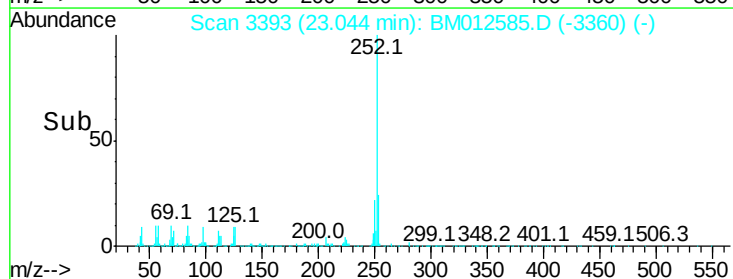
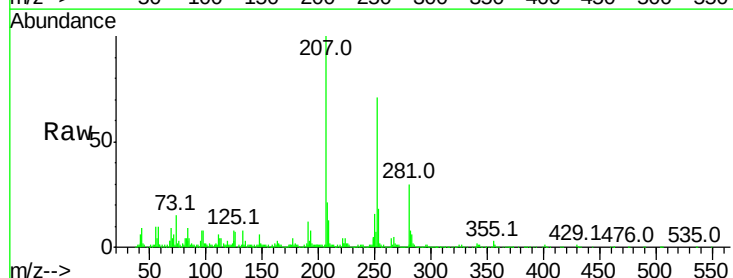
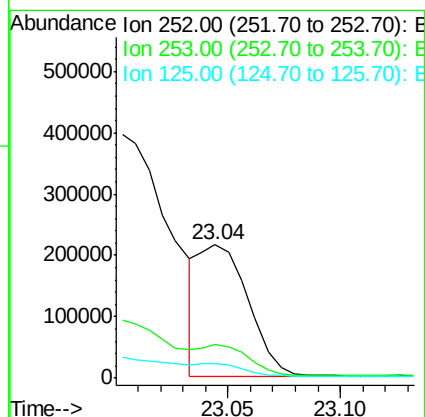
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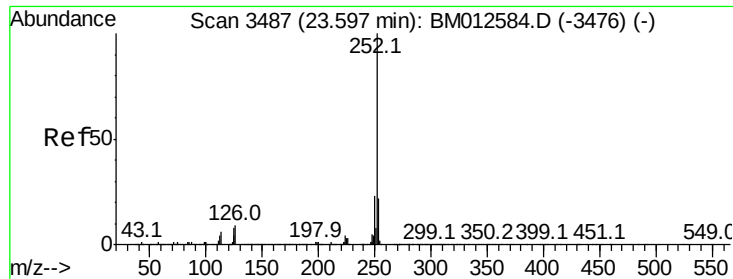
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#86  
Benzo(k)fluoranthene  
Concen: 3.433 ng/ul m  
RT: 23.04 min Scan# 3393  
Delta R.T. -0.01 min  
Lab File: BM012585.D  
Acq: 30 Oct 2017 22:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 17.1  | 25.7  |
| 125     | 10.8  | 3.4   | 5.2   |





#88

Benzo(a)pyrene

Concen: 5.723 ng/ul

RT: 23.60 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BM012585.D

Acq: 30 Oct 2017 22:14

Instrument :

BNA\_M

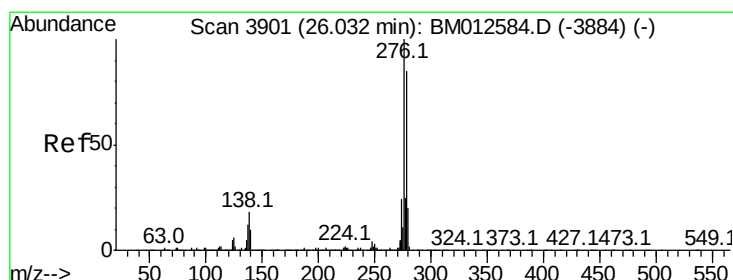
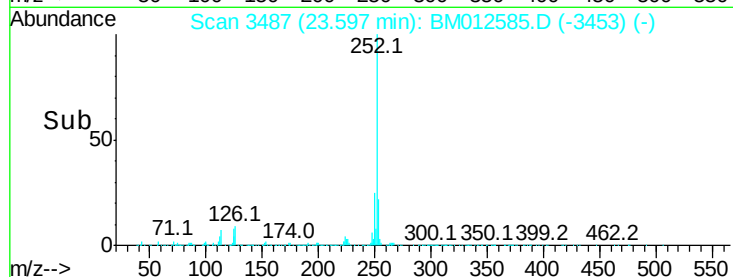
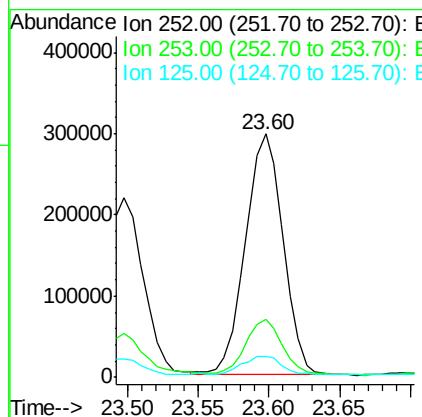
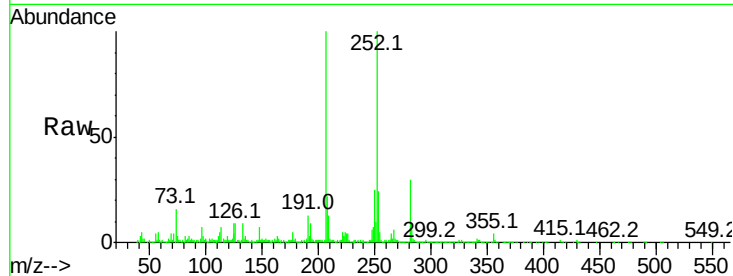
ClientSampleId :

ESNE2

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 558347 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.9  | 18.2  | 27.2   |
| 125       | 8.7   | 4.0   | 6.0#   |

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#89

Indeno(1,2,3-cd)pyrene

Concen: 4.180 ng/ul

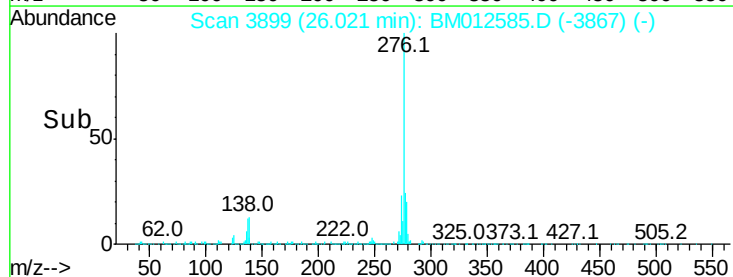
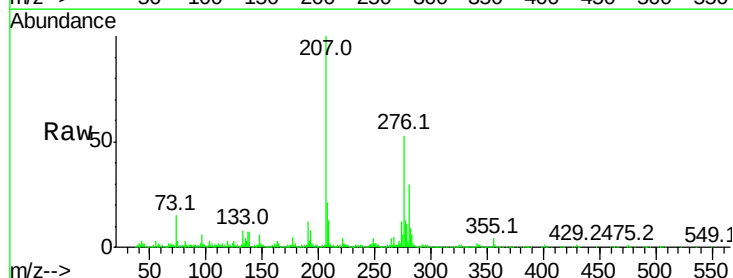
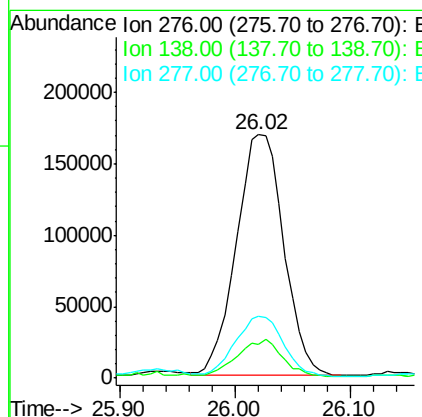
RT: 26.02 min Scan# 3899

Delta R.T. -0.01 min

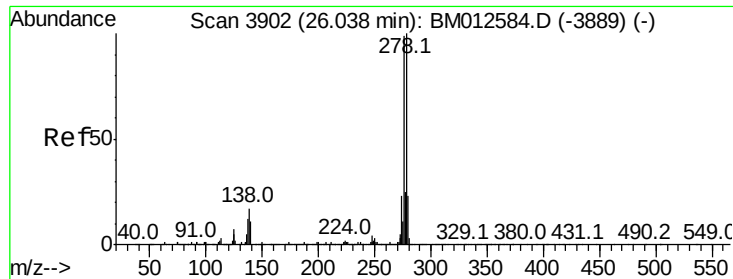
Lab File: BM012585.D

Acq: 30 Oct 2017 22:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 479984 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 13.8  | 9.3   | 13.9   |
| 277       | 25.2  | 19.9  | 29.9   |







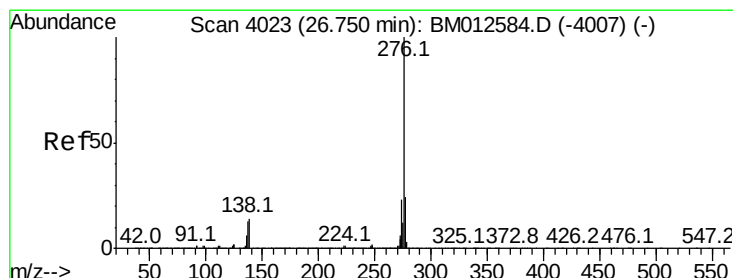
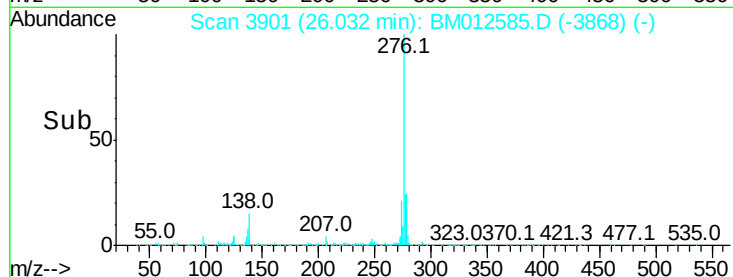
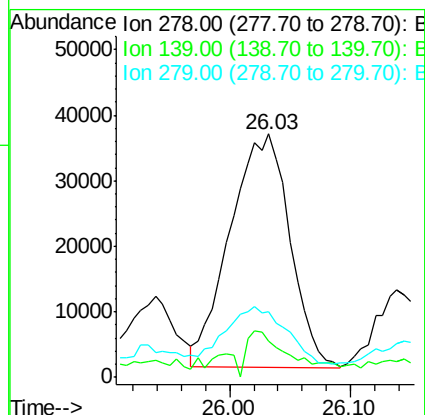
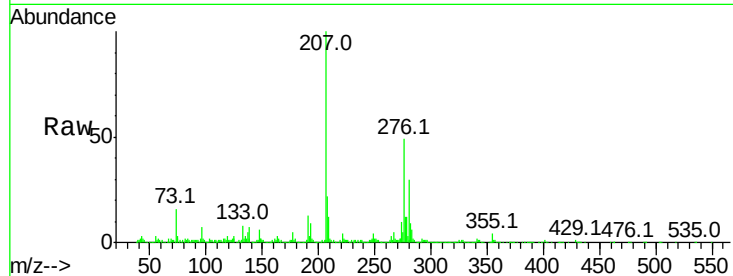
#90  
Dibenzo(a,h)anthracene  
Concen: 1.255 ng/ul  
RT: 26.03 min Scan# 3901  
Delta R.T. -0.01 min  
Lab File: BM012585.D  
Acq: 30 Oct 2017 22:14

Instrument :  
BNA\_M  
ClientSampled :  
ESNE2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 15.1  | 5.8   | 8.8#  |
| 279     | 26.8  | 18.6  | 27.8  |

Manual Integrations  
APPROVED

Sohil  
10/31/2017 7:47:15 PM



#91  
Benzo(g,h,i)perylene  
Concen: 4.281 ng/ul  
RT: 26.74 min Scan# 4021  
Delta R.T. -0.01 min  
Lab File: BM012585.D  
Acq: 30 Oct 2017 22:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.3  | 8.5   | 12.7# |
| 277     | 25.1  | 18.6  | 28.0  |

