

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121817\  
 Data File : BM013498.D  
 Acq On : 18 Dec 2017 14:48  
 Operator : SJ/JU  
 Sample : I6776-04MEDL 20X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A56MEDL

Manual Integrations  
 APPROVED

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 12/19/2017 4:56:29 PM

Quant Time: Dec 19 01:20:38 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 19 00:41:55 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|---------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.67  | 152  | 168297   | 20.00   | ng/ul  | 0.00     |
| 18) Naphthalene-d8             | 10.45 | 136  | 754737   | 20.00   | ng/ul  | 0.00     |
| 35) Acenaphthene-d10           | 14.32 | 164  | 436967   | 20.00   | ng/ul  | 0.00     |
| 61) Phenanthrene-d10           | 17.07 | 188  | 944741   | 20.00   | ng/ul  | 0.00     |
| 75) Chrysene-d12               | 21.26 | 240  | 741743   | 20.00   | ng/ul  | 0.00     |
| 83) Perylene-d12               | 23.48 | 264  | 624613   | 20.00   | ng/ul  | 0.00     |
| System Monitoring Compounds    |       |      |          |         |        |          |
| 3) 1,4-Dioxane-d8              | 3.23  | 96   | 527      | 0.16    | ng/uL  | 0.00     |
| 5) Phenol-d5                   | 6.85  | 99   | 23631    | 1.62    | ng/ul  | 0.00     |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.02  | 67   | 14404    | 1.73    | ng/ul  | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.21  | 132  | 20288    | 1.78    | ng/ul  | 0.00     |
| 13) 4-Methylphenol-d8          | 8.39  | 113  | 21841    | 1.76    | ng/ul  | 0.00     |
| 19) Nitrobenzene-d5            | 8.83  | 128  | 12002    | 2.01    | ng/ul  | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.55  | 143  | 10277    | 1.60    | ng/ul  | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.09 | 165  | 22243m   | 1.68    | ng/ul  | 0.00     |
| 29) 4-Chloroaniline-d4         | 10.60 | 131  | 19761m   | 1.63    | ng/ul  | 0.01     |
| 43) Dimethylphthalate-d6       | 13.73 | 166  | 77316    | 1.99    | ng/ul  | 0.00     |
| 46) Acenaphthylene-d8          | 14.01 | 160  | 92694    | 1.93    | ng/ul  | 0.00     |
| 51) 4-Nitrophenol-d4           | 14.57 | 143  | 6122m    | 0.91    | ng/ul  | 0.04     |
| 57) Fluorene-d10               | 15.32 | 176  | 68544    | 2.05    | ng/ul  | 0.00     |
| 62) 4,6-Dinitro-2-methylphenol | 15.46 | 200  | 5062     | 0.85    | ng/ul  | 0.01     |
| 70) Anthracene-d10             | 17.16 | 188  | 102868   | 2.17    | ng/ul  | 0.00     |
| 76) Pyrene-d10                 | 19.46 | 212  | 101021   | 2.73    | ng/ul  | 0.00     |
| 87) Benzo(a)pyrene-d12         | 23.34 | 264  | 69083    | 2.17    | ng/ul  | 0.00     |
| Target Compounds               |       |      |          |         |        |          |
| 47) Acenaphthylene             | 14.04 | 152  | 48764    | 1.098   | ng/ul# | 94       |
| 71) Anthracene                 | 17.20 | 178  | 85511    | 1.559   | ng/ul  | 99       |
| 74) Fluoranthene               | 19.13 | 202  | 4130310  | 62.795  | ng/ul# | 92       |
| 77) Pyrene                     | 19.50 | 202  | 4977497  | 110.457 | ng/ul# | 92       |
| 80) Benzo(a)anthracene         | 21.24 | 228  | 717911   | 15.255  | ng/ul  | 98       |
| 82) Chrysene                   | 21.30 | 228  | 865940   | 19.833  | ng/ul  | 99       |
| 85) Benzo(b)fluoranthene       | 22.82 | 252  | 493059   | 11.710  | ng/ul# | 97       |
| 86) Benzo(k)fluoranthene       | 22.86 | 252  | 169679   | 4.282   | ng/ul# | 94       |
| 88) Benzo(a)pyrene             | 23.39 | 252  | 138224   | 3.654   | ng/ul# | 97       |
| 89) Indeno(1,2,3-cd)pyrene     | 25.71 | 276  | 83094    | 2.214   | ng/ul# | 88       |
| 91) Benzo(g,h,i)perylene       | 26.40 | 276  | 51822    | 1.751   | ng/ul# | 93       |

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

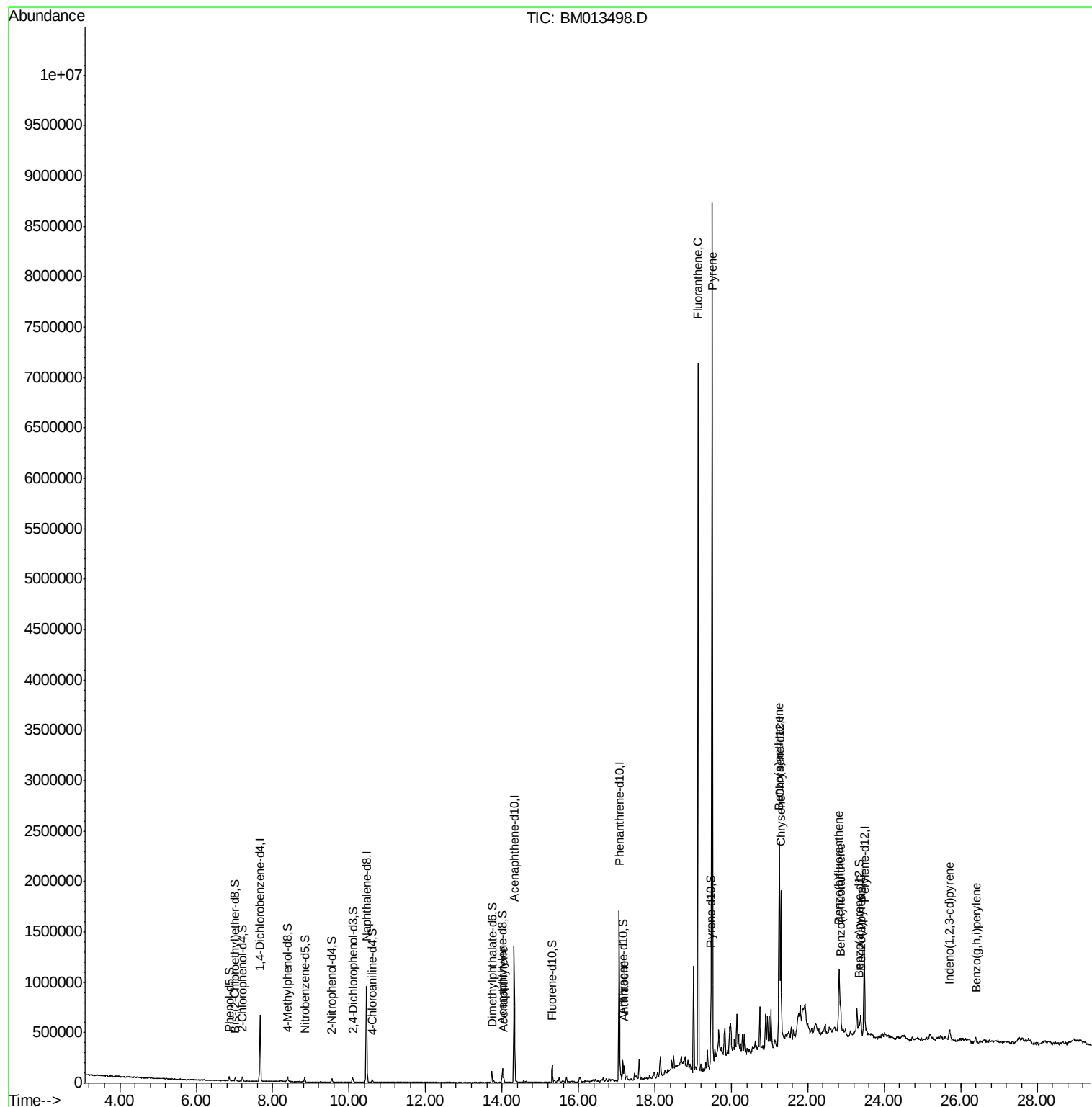
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121817\  
Data File : BM013498.D  
Acq On : 18 Dec 2017 14:48  
Operator : SJ/JU  
Sample : I6776-04MEDL 20X  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

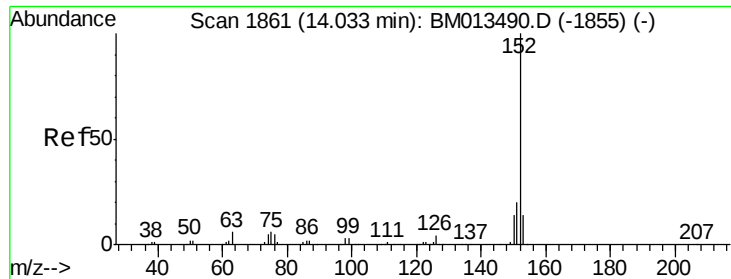
Instrument :  
BNA\_M  
ClientSampleId :  
F9A56MEDL

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Quant Time: Dec 19 01:20:38 2017  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 19 00:41:55 2017  
Response via : Initial Calibration





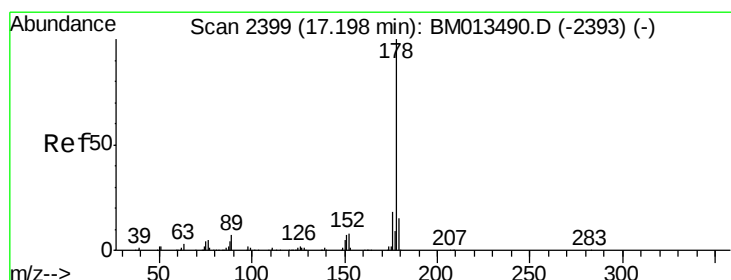
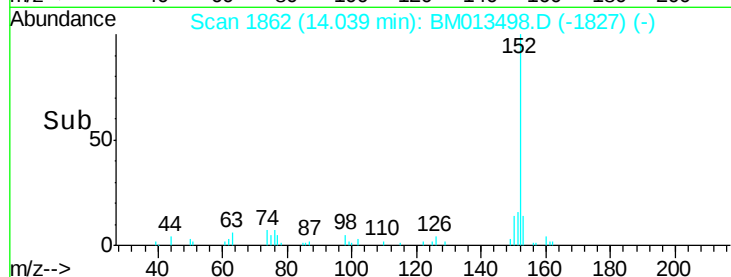
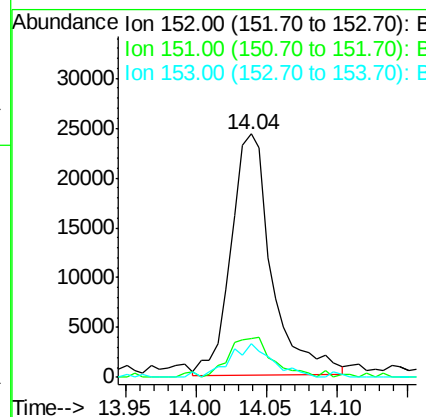
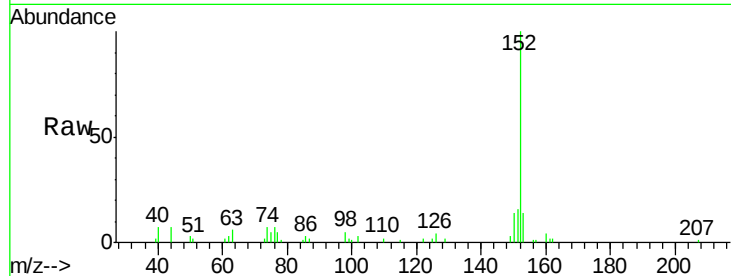
#47  
 Acenaphthylene  
 Concen: 1.098 ng/ul  
 RT: 14.04 min Scan# 1862  
 Delta R.T. 0.01 min  
 Lab File: BM013498.D  
 Acq: 18 Dec 2017 14:48

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A56MEDL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 16.2  | 16.3  | 24.5# |
| 153     | 13.7  | 10.2  | 15.4  |

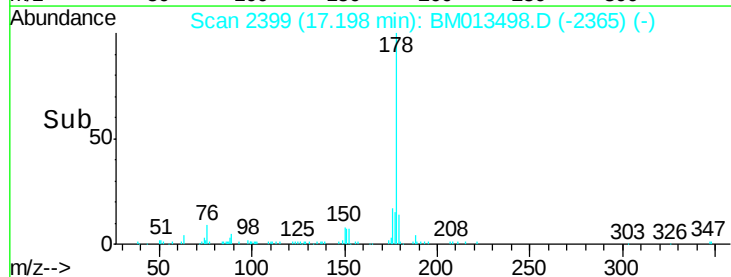
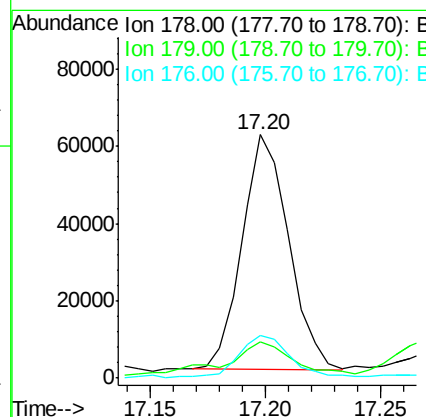
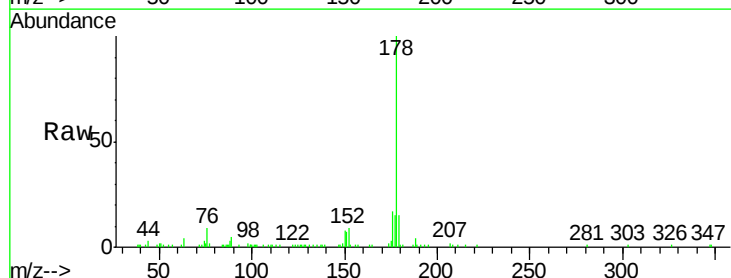
Manual Integrations  
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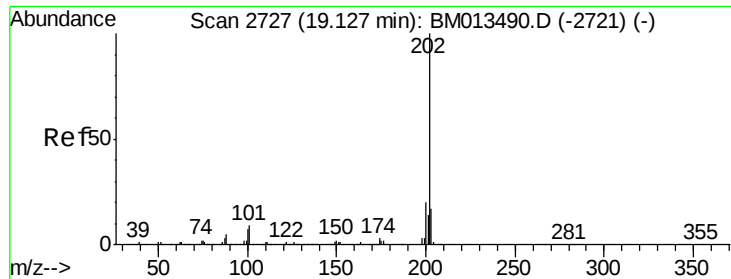
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#71  
 Anthracene  
 Concen: 1.559 ng/ul  
 RT: 17.20 min Scan# 2399  
 Delta R.T. 0.00 min  
 Lab File: BM013498.D  
 Acq: 18 Dec 2017 14:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.9  | 11.7  | 17.5  |
| 176     | 17.3  | 14.6  | 21.8  |





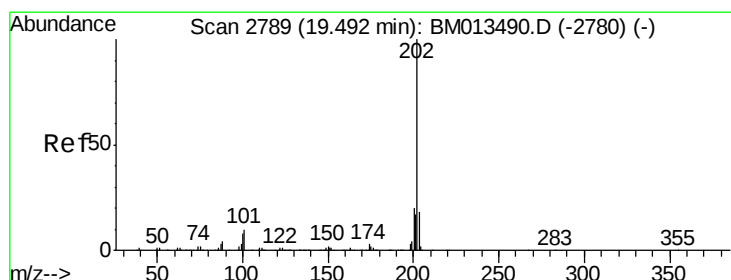
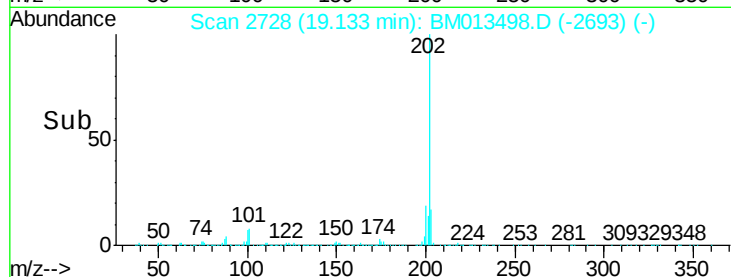
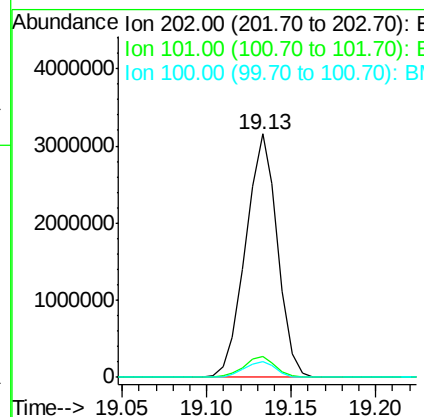
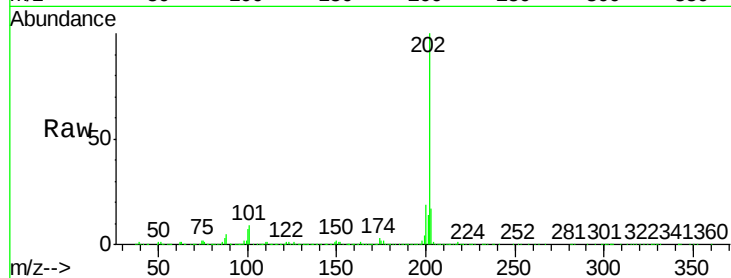
#74  
Fluoranthene  
Concen: 62.795 ng/ul  
RT: 19.13 min Scan# 2728  
Delta R.T. 0.01 min  
Lab File: BM013498.D  
Acq: 18 Dec 2017 14:48

Instrument :  
BNA\_M  
ClientSampleId :  
F9A56MEDL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.5   | 4.6   | 7.0#  |
| 100     | 6.7   | 3.4   | 5.2#  |

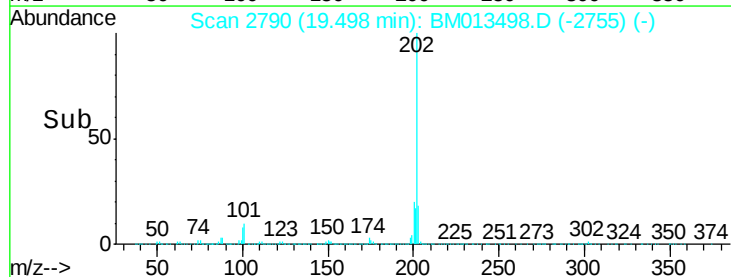
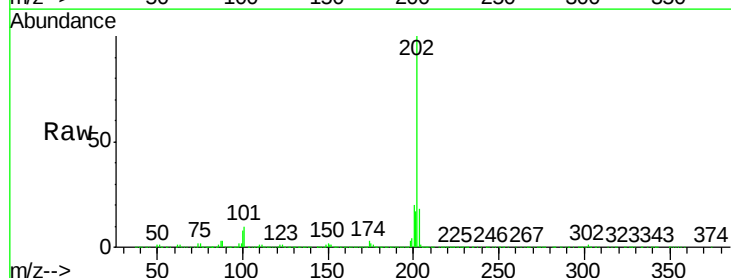
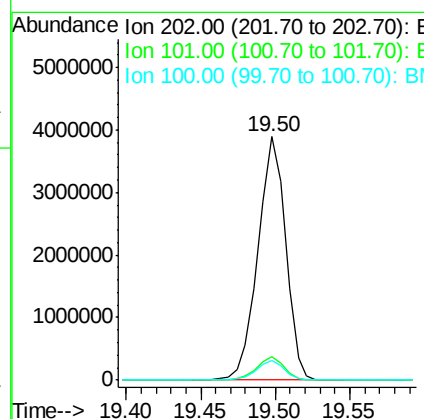
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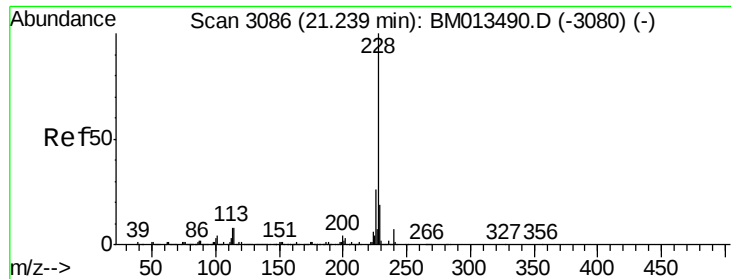
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#77  
Pyrene  
Concen: 110.457 ng/ul  
RT: 19.50 min Scan# 2790  
Delta R.T. 0.01 min  
Lab File: BM013498.D  
Acq: 18 Dec 2017 14:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.7   | 5.1   | 7.7#  |
| 100     | 8.0   | 4.9   | 7.3#  |





#80

Benzo(a)anthracene

Concen: 15.255 ng/u1

RT: 21.24 min Scan# 3087

Delta R.T. 0.01 min

Lab File: BM013498.D

Acq: 18 Dec 2017 14:48

Instrument :

BNA\_M

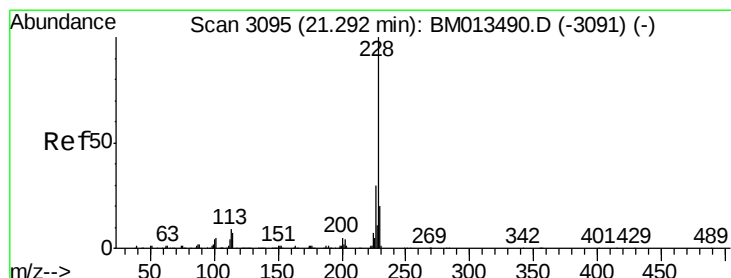
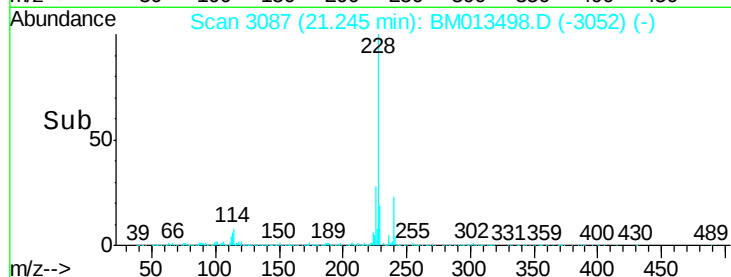
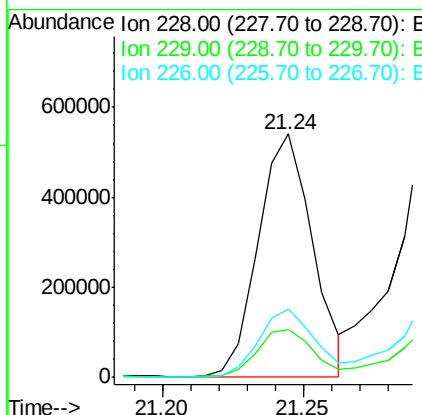
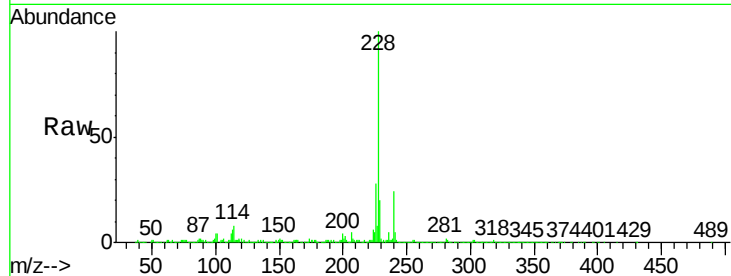
ClientSampleId :

F9A56MEDL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 717911 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 19.9  | 15.4  | 23.0   |
| 226       | 28.0  | 21.4  | 32.0   |

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#82

Chrysene

Concen: 19.833 ng/u1

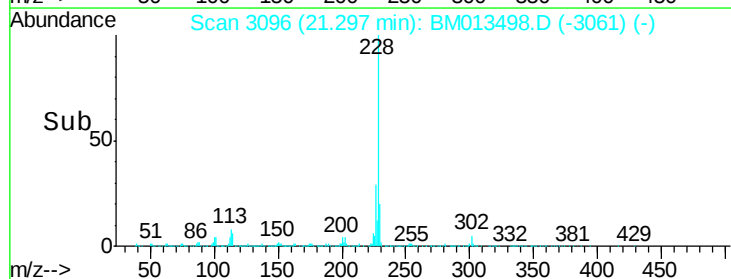
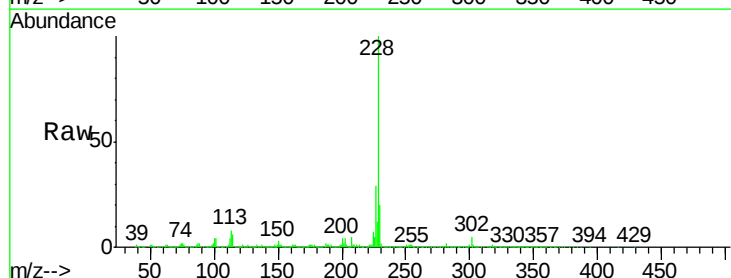
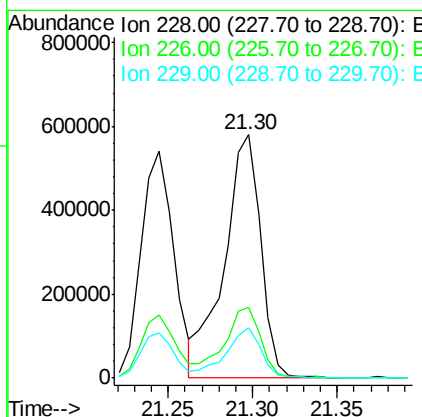
RT: 21.30 min Scan# 3096

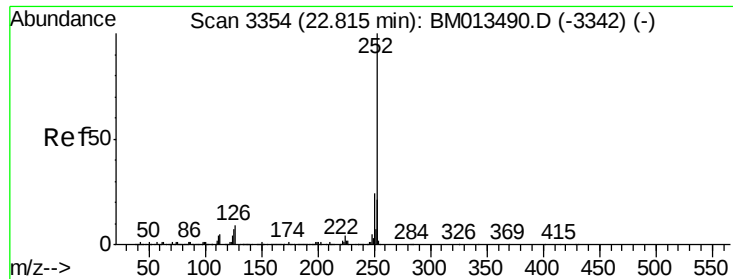
Delta R.T. 0.01 min

Lab File: BM013498.D

Acq: 18 Dec 2017 14:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 865940 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.3  | 23.4  | 35.2   |
| 229       | 20.4  | 15.5  | 23.3   |





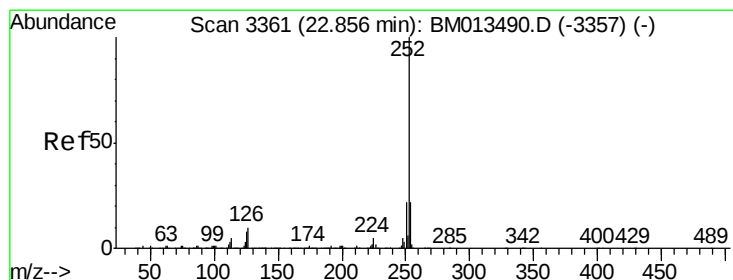
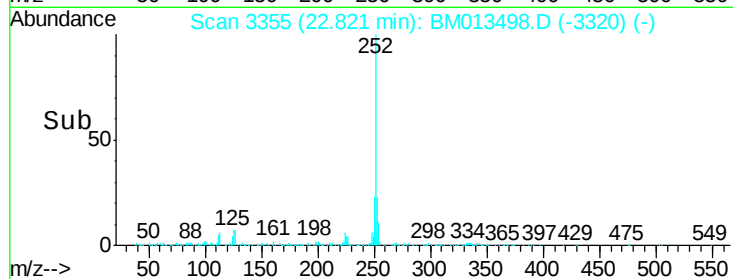
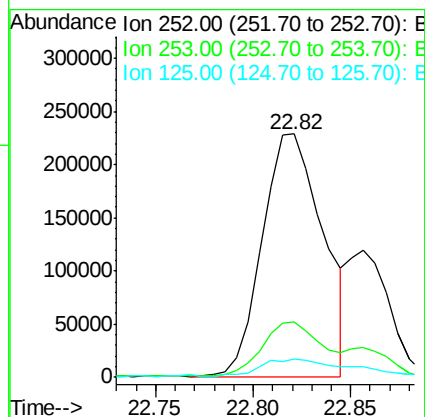
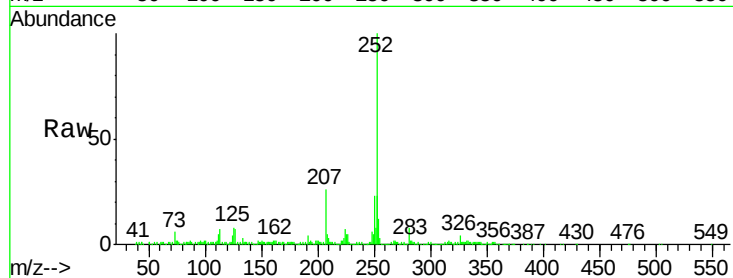
#85  
Benzo(b)fluoranthene  
Concen: 11.710 ng/ul  
RT: 22.82 min Scan# 3355  
Delta R.T. 0.01 min  
Lab File: BM013498.D  
Acq: 18 Dec 2017 14:48

Instrument :  
BNA\_M  
ClientSampleId :  
F9A56MEDL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.0  | 17.9  | 26.9  |
| 125     | 7.5   | 3.6   | 5.4   |

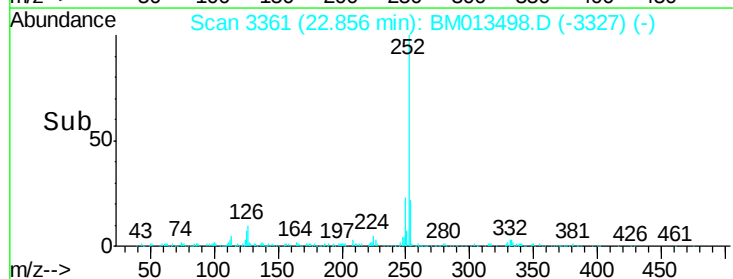
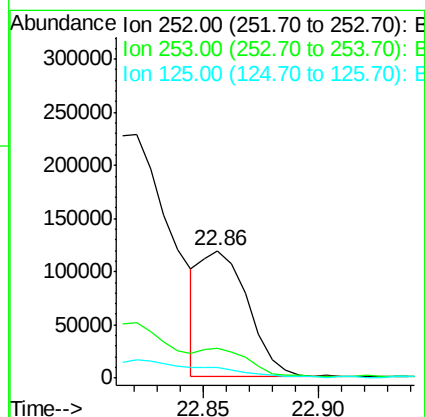
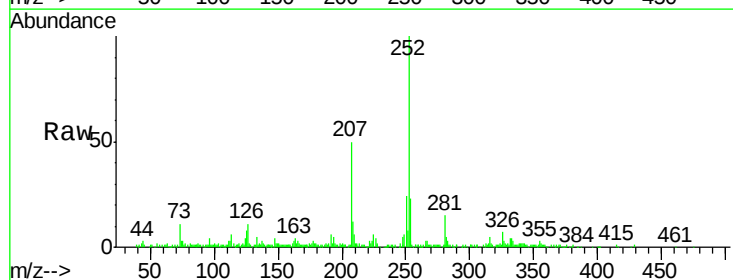
Manual Integrations  
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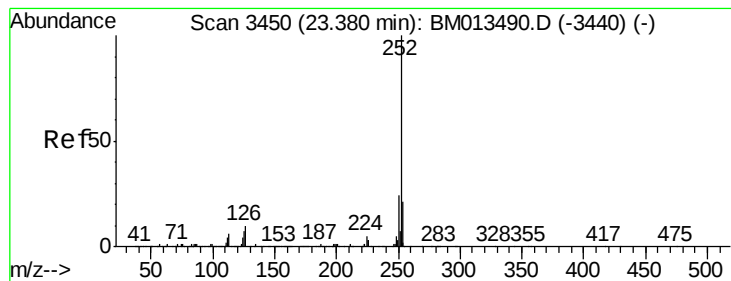
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#86  
Benzo(k)fluoranthene  
Concen: 4.282 ng/ul  
RT: 22.86 min Scan# 3361  
Delta R.T. 0.00 min  
Lab File: BM013498.D  
Acq: 18 Dec 2017 14:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.1  | 25.7  |
| 125     | 8.3   | 3.4   | 5.2   |





#88

Benzo(a)pyrene

Concen: 3.654 ng/ul

RT: 23.39 min Scan# 3451

Delta R.T. 0.01 min

Lab File: BM013498.D

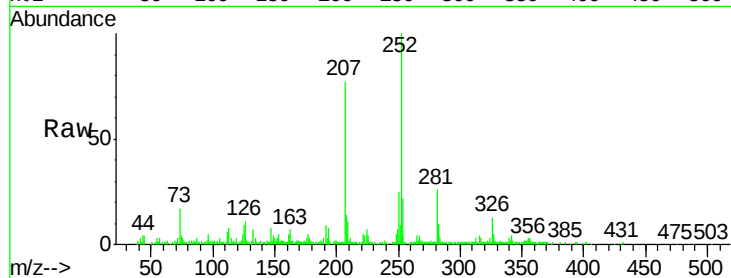
Acq: 18 Dec 2017 14:48

Instrument :

BNA\_M

ClientSampled :

F9A56MEDL



Tgt Ion: 252 Resp: 138224

Ion Ratio Lower Upper

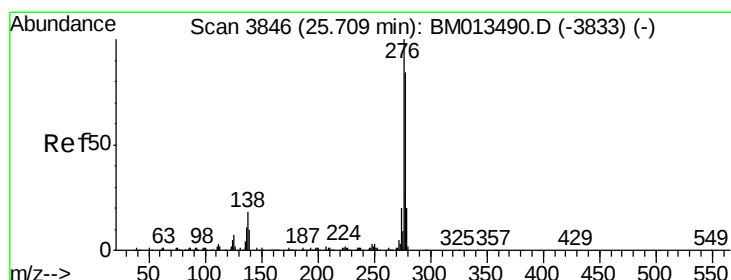
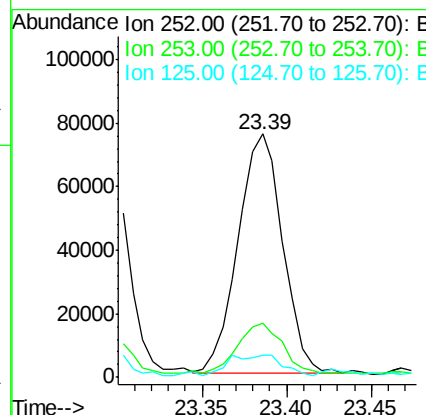
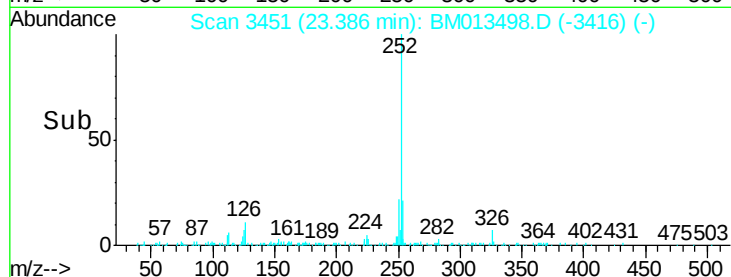
252 100

253 22.4 18.2 27.2

125 9.1 4.0 6.0#

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#89

Indeno(1,2,3-cd)pyrene

Concen: 2.214 ng/ul

RT: 25.71 min Scan# 3846

Delta R.T. 0.00 min

Lab File: BM013498.D

Acq: 18 Dec 2017 14:48

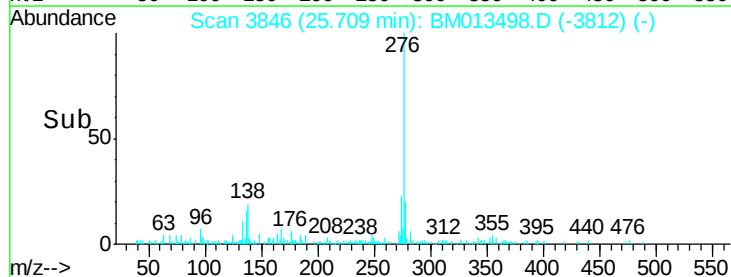
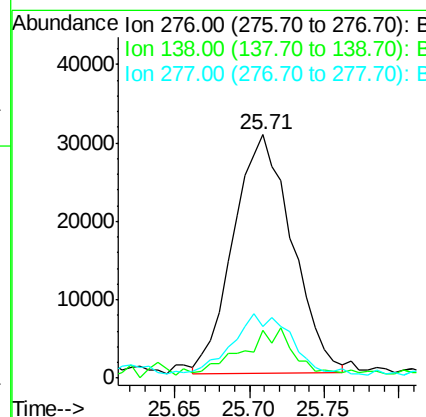
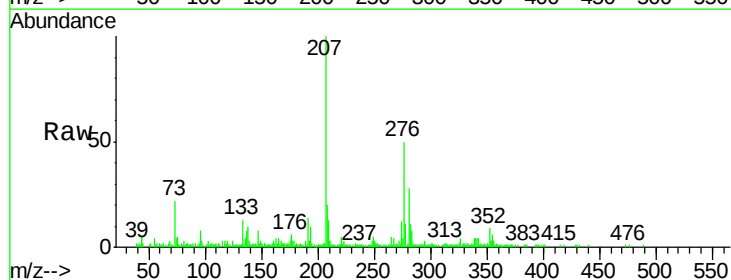
Tgt Ion: 276 Resp: 83094

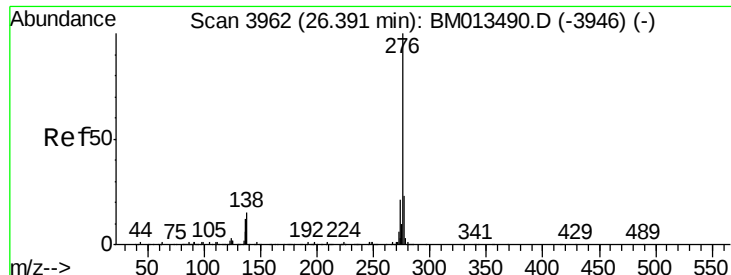
Ion Ratio Lower Upper

276 100

138 19.8 9.3 13.9#

277 21.4 19.9 29.9





#91

Benzo(g,h,i)perylene

Concen: 1.751 ng/ul

RT: 26.40 min Scan# 3963

Delta R.T. 0.01 min

Lab File: BM013498.D

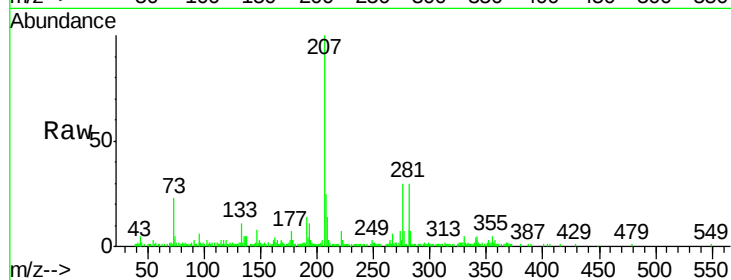
Acq: 18 Dec 2017 14:48

Instrument :

BNA\_M

ClientSampleId :

F9A56MEDL



Tgt Ion: 276 Resp: 51822

Ion Ratio Lower Upper

276 100

138 16.8 8.5 12.7#

277 22.1 18.6 28.0

Manual Integrations

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