

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP121720\  
 Data File : BP004341.D  
 Acq On : 17 Dec 2020 15:24  
 Operator : CG/JU  
 Sample : L5067-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 A54E1

Manual Integrations  
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mohammad  
 12/18/2020 10:27:38 AM

Quant Time: Dec 17 16:05:23 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP121020MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 17 15:20:40 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.83  | 152  | 254427   | 20.00 | ng/ul | -0.01    |
| 18) Naphthalene-d8        | 10.63 | 136  | 1079551  | 20.00 | ng/ul | -0.01    |
| 36) Acenaphthene-d10      | 14.48 | 164  | 678522   | 20.00 | ng/ul | -0.01    |
| 62) Phenanthrene-d10      | 17.25 | 188  | 1502024  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.34 | 240  | 1463881  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.71 | 264  | 1621898  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.32  | 96  | 12178   | 1.68  | ng/uL | -0.01 |
| 5) Phenol-d5                   | 6.99  | 99  | 268511  | 12.76 | ng/ul | -0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.16  | 67  | 145701  | 11.09 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.36  | 132 | 214991  | 13.46 | ng/ul | -0.01 |
| 13) 4-Methylphenol-d8          | 8.53  | 113 | 215073  | 13.52 | ng/ul | -0.01 |
| 19) Nitrobenzene-d5            | 8.99  | 128 | 108151  | 12.23 | ng/ul | -0.01 |
| 22) 2-Nitrophenol-d4           | 9.71  | 143 | 118163  | 16.20 | ng/ul | -0.01 |
| 26) 2,4-Dichlorophenol-d3      | 10.25 | 165 | 222876  | 13.90 | ng/ul | -0.01 |
| 29) 4-Chloroaniline-d4         | 10.76 | 131 | 230753  | 11.61 | ng/ul | 0.00  |
| 44) Dimethylphthalate-d6       | 13.89 | 166 | 683563  | 13.18 | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 14.17 | 160 | 905767  | 13.68 | ng/ul | -0.01 |
| 52) 4-Nitrophenol-d4           | 14.67 | 143 | 101852  | 11.63 | ng/ul | -0.01 |
| 58) Fluorene-d10               | 15.48 | 176 | 616369  | 13.12 | ng/ul | 0.00  |
| 63) 4,6-Dinitro-2-methylphenol | 15.60 | 200 | 54556   | 7.57  | ng/ul | -0.01 |
| 71) Anthracene-d10             | 17.34 | 188 | 984211  | 13.44 | ng/ul | -0.01 |
| 79) Pyrene-d10                 | 19.59 | 212 | 1118349 | 14.66 | ng/ul | 0.00  |
| 90) Benzo(a)pyrene-d12         | 23.56 | 264 | 1210771 | 14.17 | ng/ul | 0.00  |

## Target Compounds

|                            |       |     |          |        | Ovalue |     |
|----------------------------|-------|-----|----------|--------|--------|-----|
| 6) Phenol                  | 7.02  | 94  | 104533   | 4.757  | ng/ul  | 98  |
| 28) Naphthalene            | 10.68 | 128 | 153285   | 2.505  | ng/ul  | 99  |
| 45) Dimethylphthalate      | 13.93 | 163 | 77246    | 1.462  | ng/ul  | 100 |
| 48) Acenaphthylene         | 14.20 | 152 | 512298   | 7.799  | ng/ul  | 100 |
| 50) Acenaphthene           | 14.55 | 153 | 83198    | 1.789  | ng/ul  | 99  |
| 54) Dibenzofuran           | 14.88 | 168 | 193378   | 2.951  | ng/ul  | 99  |
| 59) Fluorene               | 15.53 | 166 | 230472   | 4.397  | ng/ul  | 97  |
| 70) Phenanthrene           | 17.29 | 178 | 4946164  | 55.817 | ng/ul  | 99  |
| 72) Anthracene             | 17.37 | 178 | 951816   | 10.857 | ng/ul  | 99  |
| 75) Carbazole              | 17.65 | 167 | 370189   | 5.189  | ng/ul  | 99  |
| 77) Fluoranthene           | 19.26 | 202 | 8343834  | 88.184 | ng/ul  | 99  |
| 80) Pyrene                 | 19.62 | 202 | 7433368  | 75.277 | ng/ul  | 98  |
| 83) Benzo(a)anthracene     | 21.33 | 228 | 3761727  | 38.984 | ng/ul  | 95  |
| 85) Chrysene               | 21.38 | 228 | 3884110  | 41.032 | ng/ul  | 97  |
| 88) Benzo(b)fluoranthene   | 23.00 | 252 | 5488354  | 53.360 | ng/ul  | 98  |
| 89) Benzo(k)fluoranthene   | 23.03 | 252 | 1684435m | 15.946 | ng/ul  |     |
| 91) Benzo(a)pyrene         | 23.61 | 252 | 4170684  | 43.453 | ng/ul  | 97  |
| 92) Indeno(1,2,3-cd)pyrene | 26.15 | 276 | 3097798  | 25.736 | ng/ul  | 96  |
| 93) Dibenzo(a,h)anthracene | 26.15 | 278 | 687637   | 6.816  | ng/ul# | 80  |
| 94) Benzo(g,h,i)perylene   | 26.90 | 276 | 2835993  | 28.084 | ng/ul  | 96  |

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

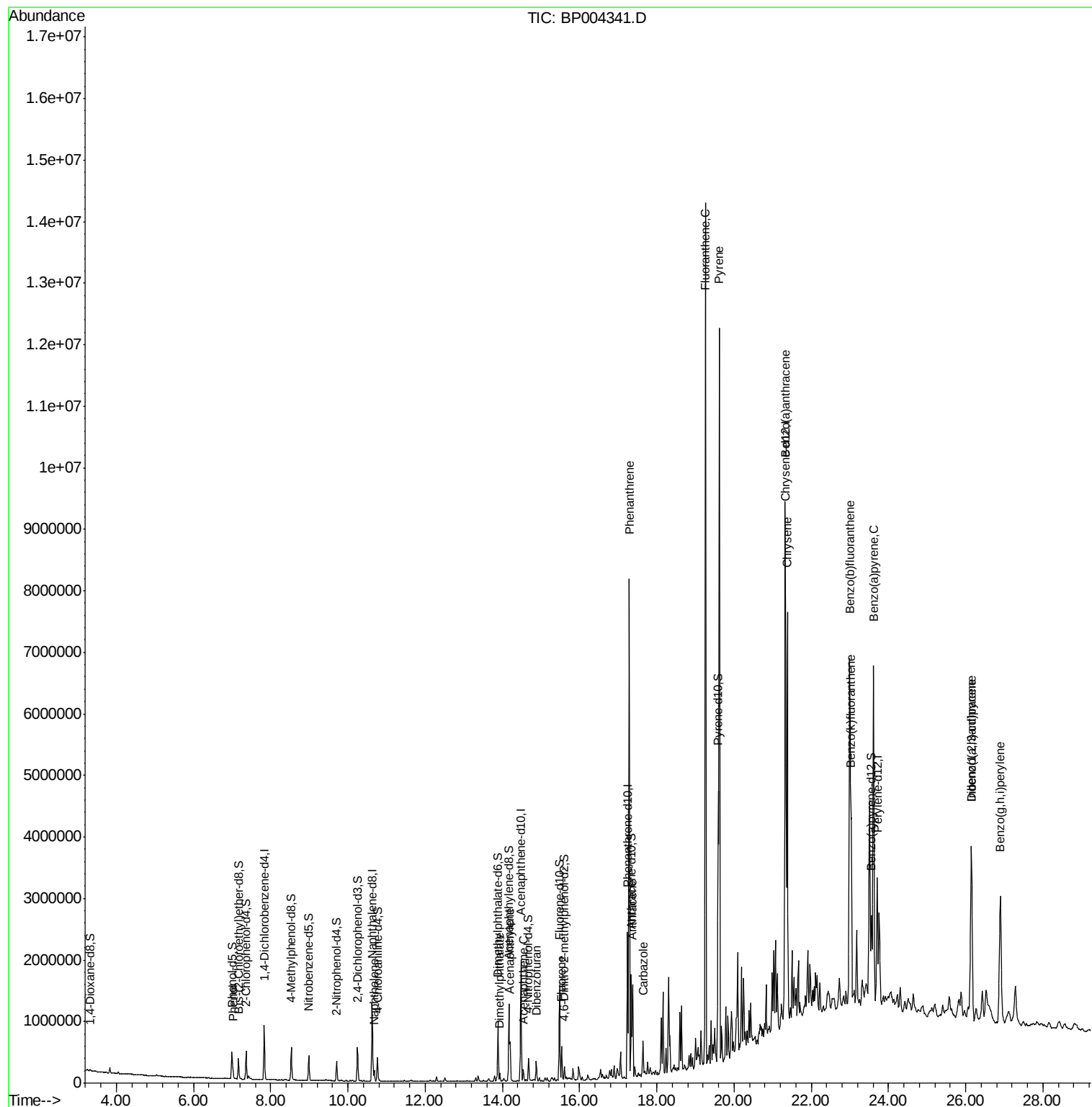
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP121720\  
Data File : BP004341.D  
Acq On : 17 Dec 2020 15:24  
Operator : CG/JU  
Sample : L5067-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

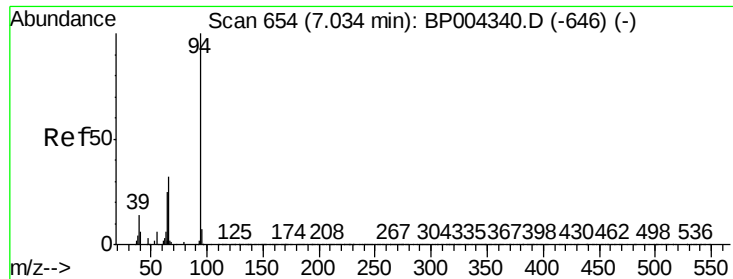
Instrument :  
BNA\_P  
ClientSampleId :  
A54E1

Quant Time: Dec 17 16:05:23 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SOM-EPA-BP121020MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Dec 17 15:20:40 2020  
Response via : Initial Calibration

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#6

Phenol

Concen: 4.757 ng/ul

RT: 7.02 min Scan# 652

Delta R.T. -0.01 min

Lab File: BP004341.D

Acq: 17 Dec 2020 15:24

Instrument :

BNA\_P

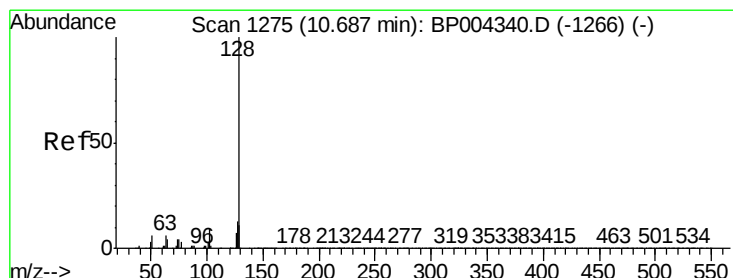
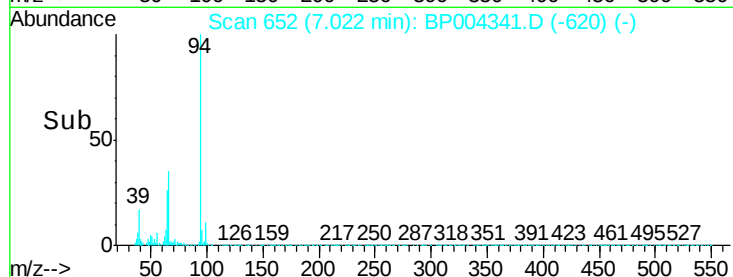
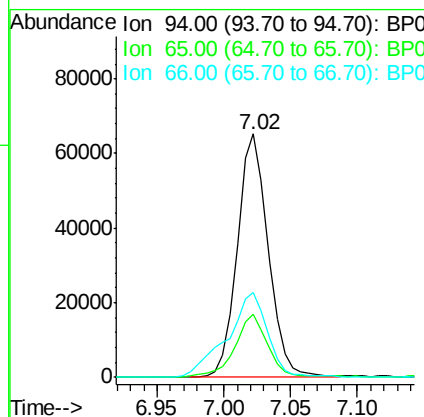
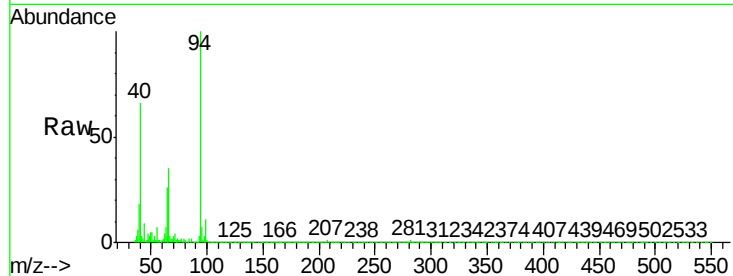
ClientSampleId :

A54E1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 94    | Resp: | 104533 |
| Ion Ratio | Lower | Upper |        |
| 94        | 100   |       |        |
| 65        | 26.2  | 20.8  | 31.2   |
| 66        | 35.0  | 26.5  | 39.7   |

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#28

Naphthalene

Concen: 2.505 ng/ul

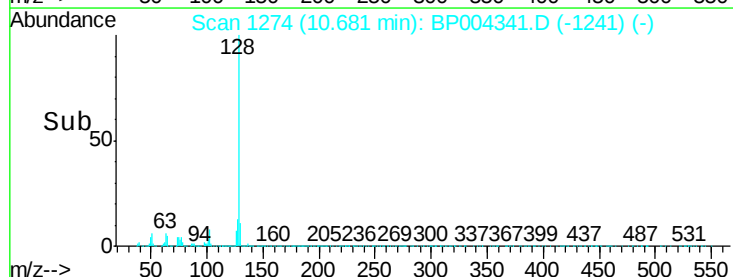
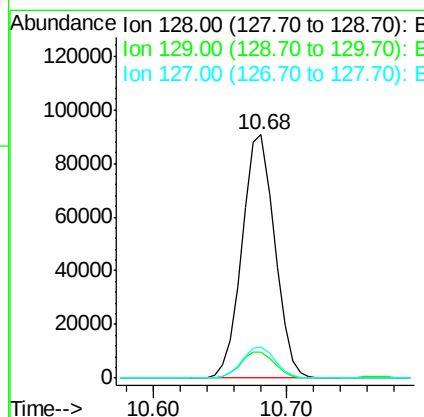
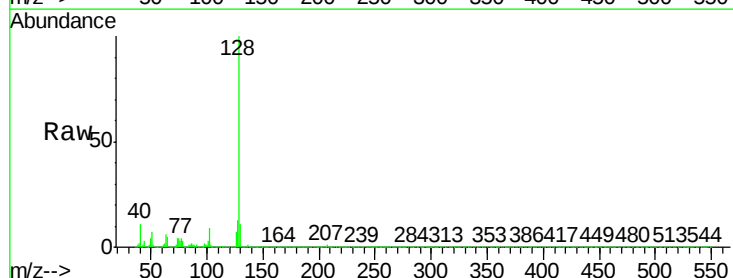
RT: 10.68 min Scan# 1274

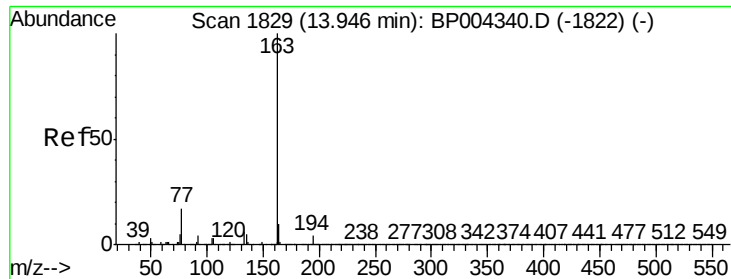
Delta R.T. -0.01 min

Lab File: BP004341.D

Acq: 17 Dec 2020 15:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 153285 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 10.8  | 8.8   | 13.2   |
| 127       | 13.0  | 10.6  | 16.0   |





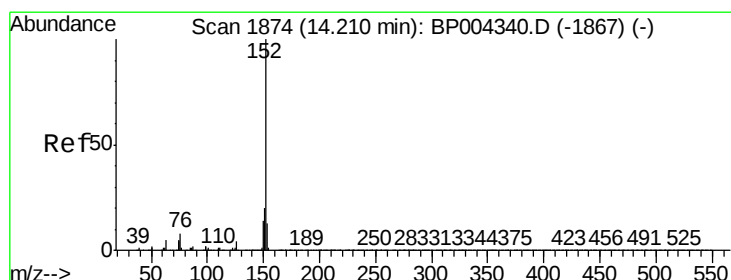
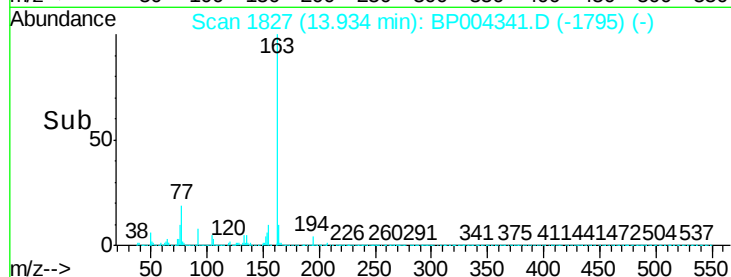
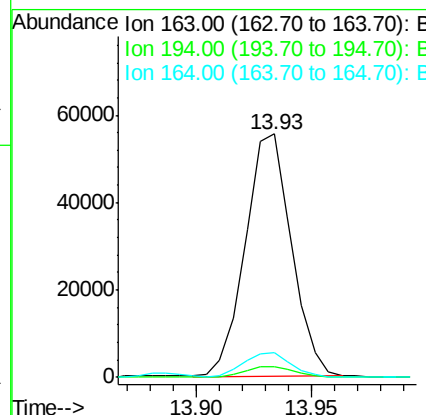
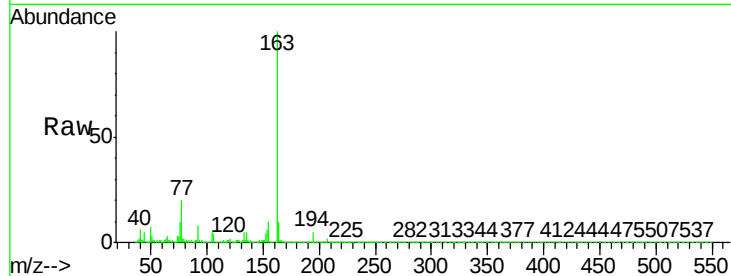
#45  
Dimethylphthalate  
Concen: 1.462 ng/ul  
RT: 13.93 min Scan# 1827  
Delta R.T. -0.01 min  
Lab File: BP004341.D  
Acq: 17 Dec 2020 15:24

Instrument :  
BNA\_P  
ClientSampleId :  
A54E1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 77246 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.6   | 3.4   | 5.2   |
| 164       | 10.4  | 8.4   | 12.6  |

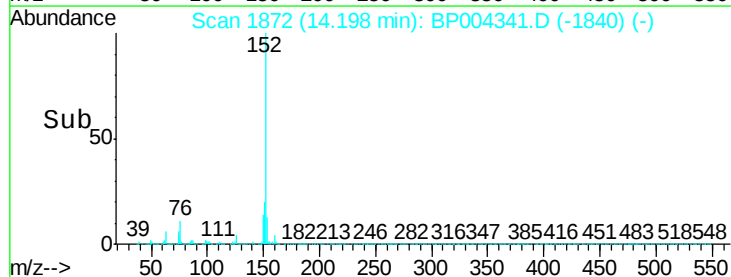
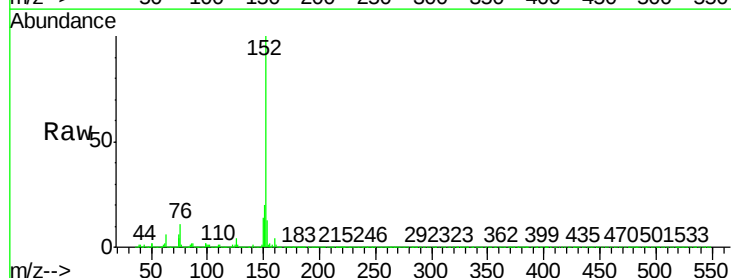
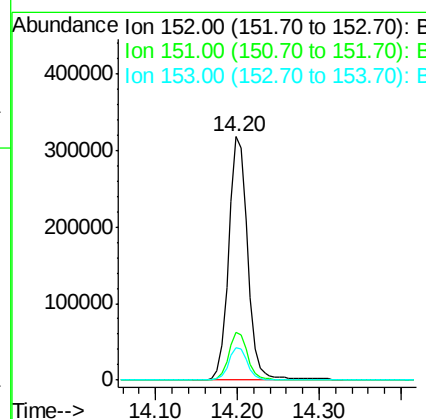
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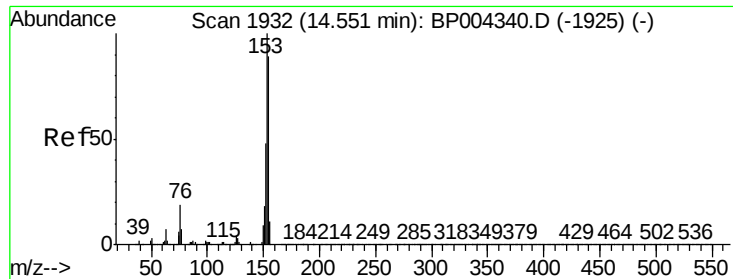
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#48  
Acenaphthylene  
Concen: 7.799 ng/ul  
RT: 14.20 min Scan# 1872  
Delta R.T. -0.01 min  
Lab File: BP004341.D  
Acq: 17 Dec 2020 15:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 512298 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 19.7  | 15.8  | 23.8   |
| 153       | 13.1  | 10.6  | 16.0   |





#50

Acenaphthene

Concen: 1.789 ng/ul

RT: 14.55 min Scan# 1931

Delta R.T. -0.01 min

Lab File: BP004341.D

Acq: 17 Dec 2020 15:24

Instrument :

BNA\_P

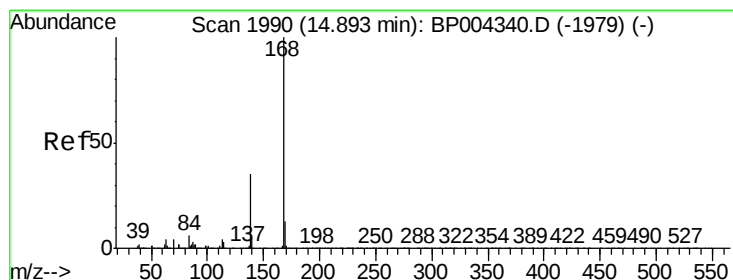
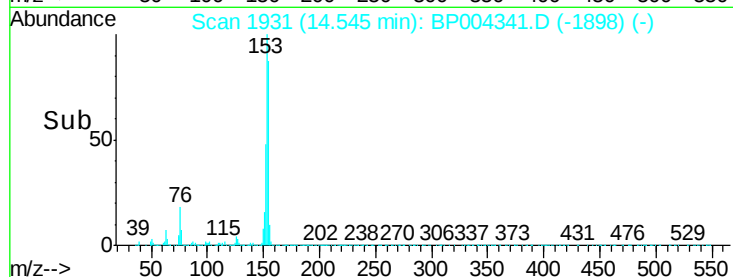
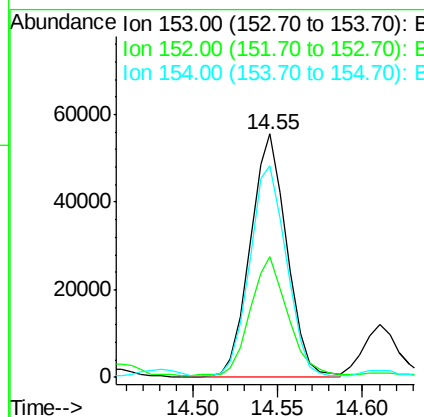
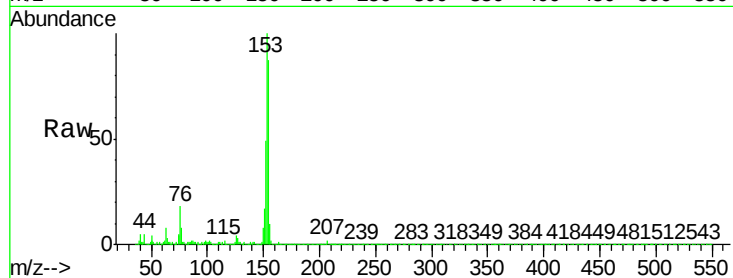
ClientSampleId :

A54E1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 153   | Resp: | 83198 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 49.4  | 37.8  | 56.6  |
| 154       | 87.0  | 69.8  | 104.8 |

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#54

Dibenzofuran

Concen: 2.951 ng/ul

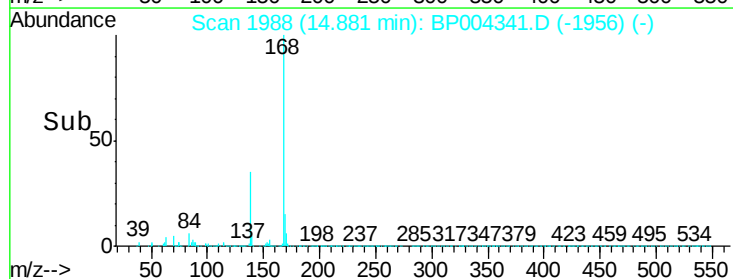
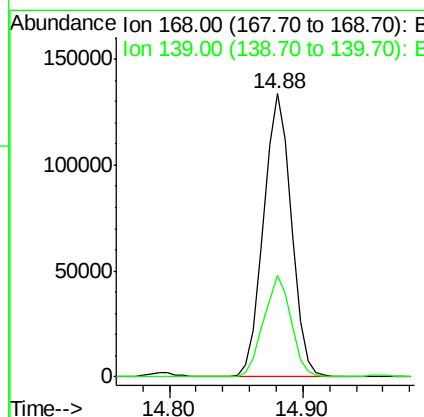
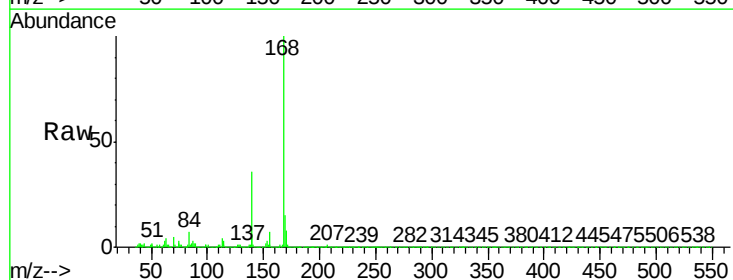
RT: 14.88 min Scan# 1988

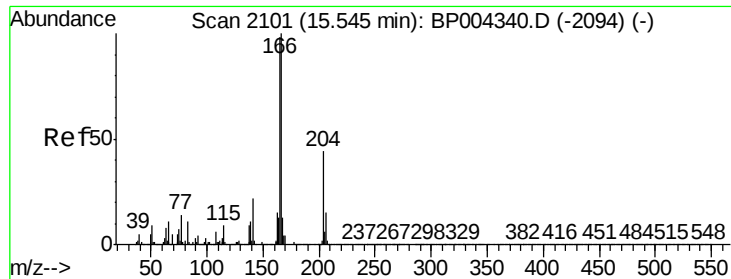
Delta R.T. -0.01 min

Lab File: BP004341.D

Acq: 17 Dec 2020 15:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 168   | Resp: | 193378 |
| Ion Ratio | Lower | Upper |        |
| 168       | 100   |       |        |
| 139       | 35.9  | 29.0  | 43.6   |





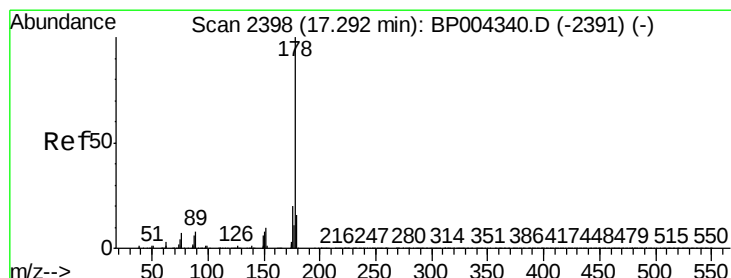
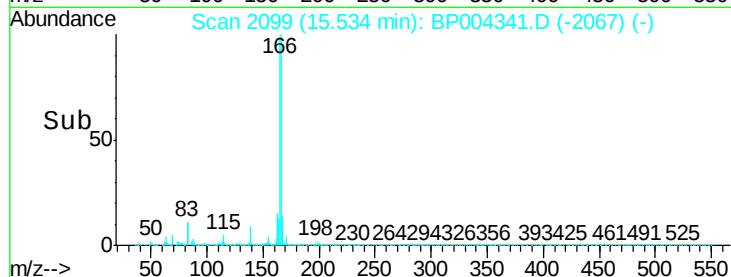
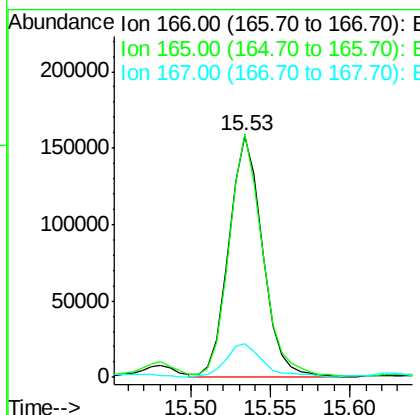
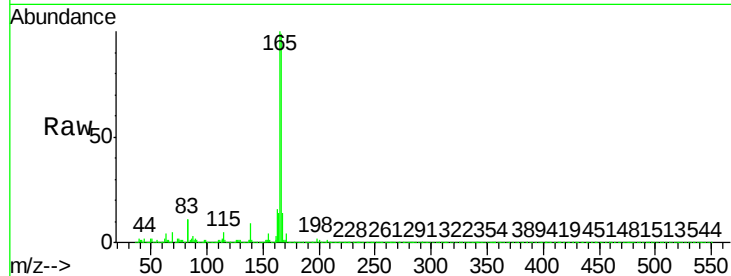
#59  
Fluorene  
Concen: 4.397 ng/ul  
RT: 15.53 min Scan# 2099  
Delta R.T. -0.01 min  
Lab File: BP004341.D  
Acq: 17 Dec 2020 15:24

Instrument :  
BNA\_P  
ClientSampleId :  
A54E1

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 166     | 100   |       |       |       |       |
| 165     | 100.9 | 78.2  | 117.2 |       |       |
| 167     | 14.1  | 10.8  | 16.2  |       |       |

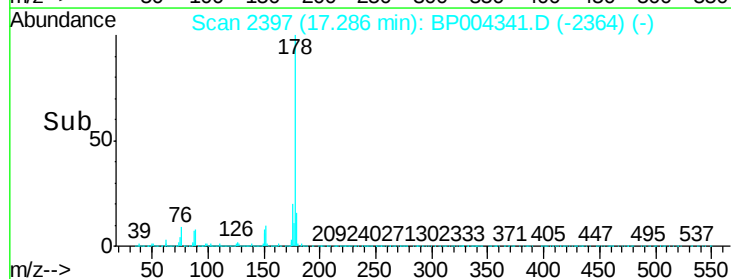
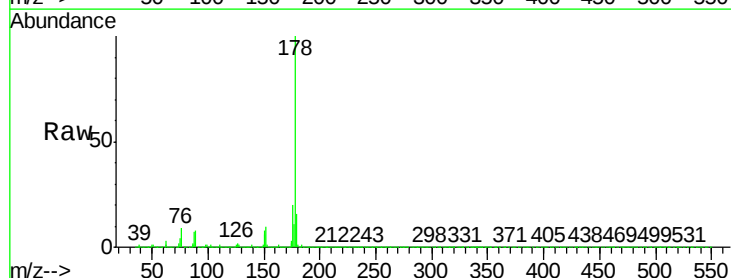
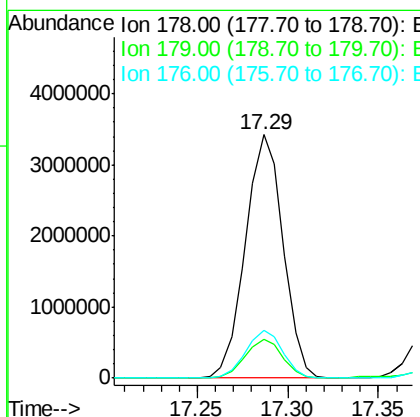
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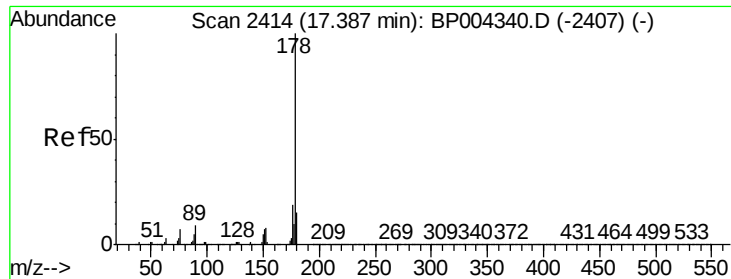
mohammad  
12/18/2020 10:27:38 AM



#70  
Phenanthrene  
Concen: 55.817 ng/ul  
RT: 17.29 min Scan# 2397  
Delta R.T. -0.01 min  
Lab File: BP004341.D  
Acq: 17 Dec 2020 15:24

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 178     | 100  |       |      |       |       |
| 179     | 16.0 | 12.4  | 18.6 |       |       |
| 176     | 19.8 | 15.4  | 23.0 |       |       |





#72

Anthracene

Concen: 10.857 ng/ul

RT: 17.37 min Scan# 2412

Delta R.T. -0.01 min

Lab File: BP004341.D

Acq: 17 Dec 2020 15:24

Instrument :

BNA\_P

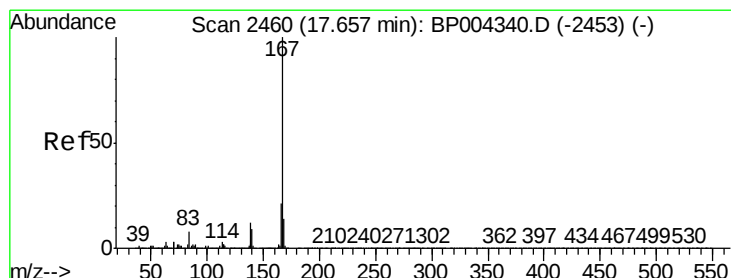
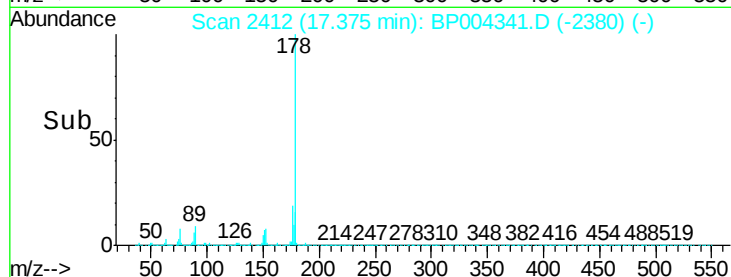
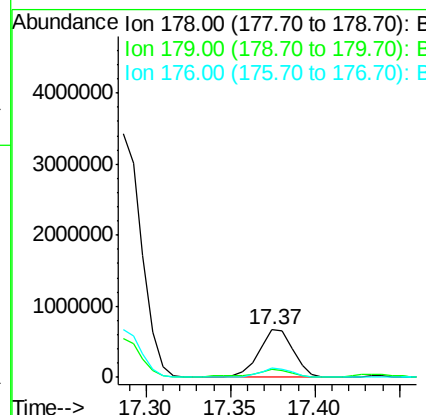
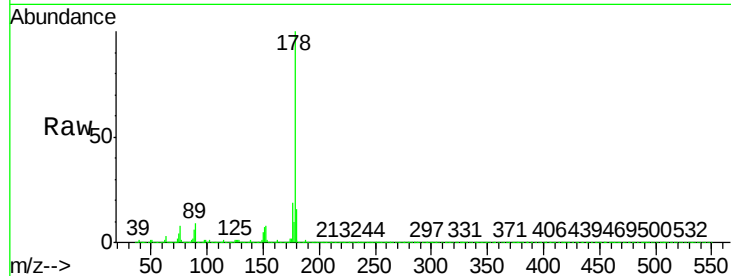
ClientSampled :

A54E1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 951816 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.9  | 12.3  | 18.5   |
| 176       | 18.8  | 14.9  | 22.3   |

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#75

Carbazole

Concen: 5.189 ng/ul

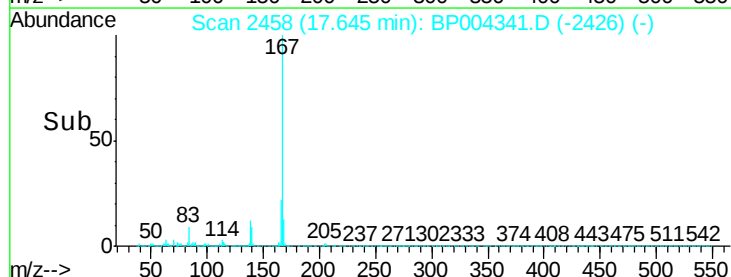
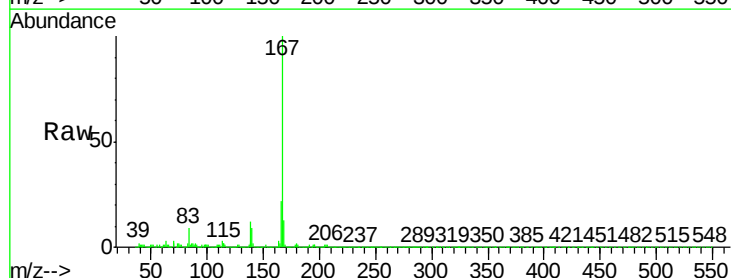
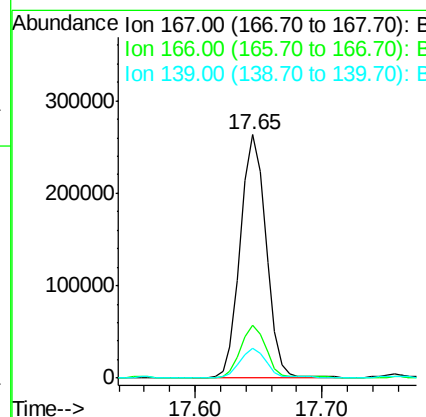
RT: 17.65 min Scan# 2458

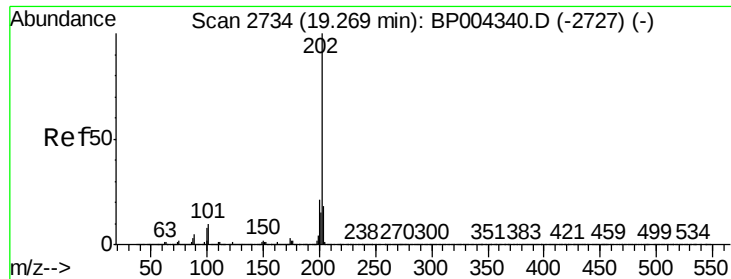
Delta R.T. -0.01 min

Lab File: BP004341.D

Acq: 17 Dec 2020 15:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 167   | Resp: | 370189 |
| Ion Ratio | Lower | Upper |        |
| 167       | 100   |       |        |
| 166       | 21.9  | 17.1  | 25.7   |
| 139       | 12.2  | 9.8   | 14.6   |





#77

Fluoranthene

Concen: 88.184 ng/ul

RT: 19.26 min Scan# 2733

Delta R.T. -0.01 min

Lab File: BP004341.D

Acq: 17 Dec 2020 15:24

Instrument :

BNA\_P

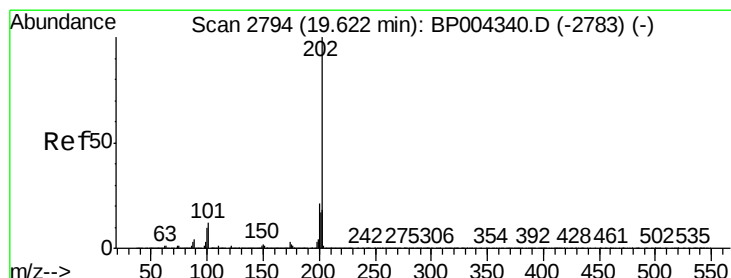
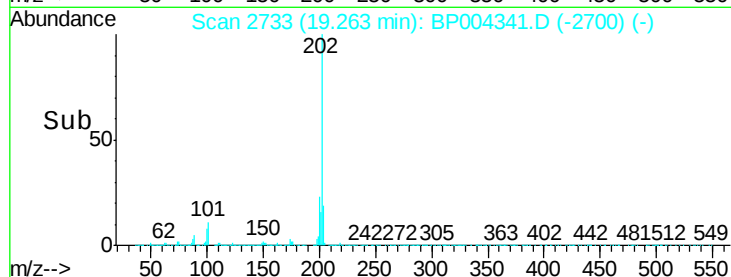
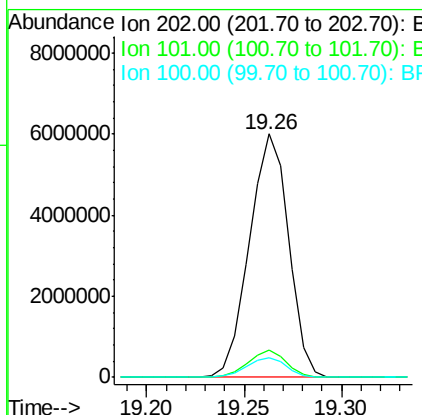
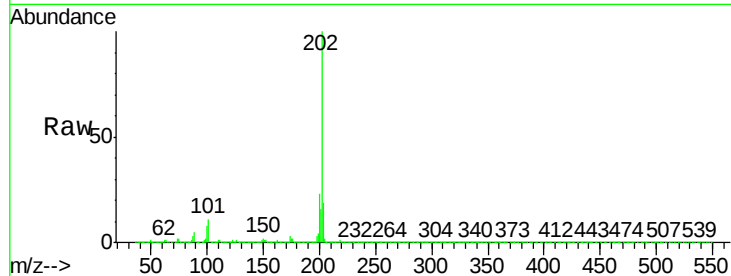
ClientSampleId :

A54E1

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 8343834 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 11.0  | 9.1   | 13.7    |
| 100       | 8.3   | 7.1   | 10.7    |

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#80

Pyrene

Concen: 75.277 ng/ul

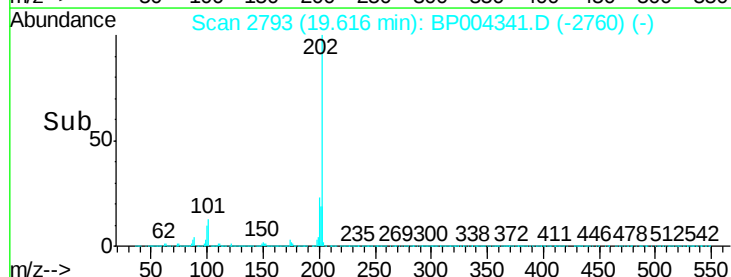
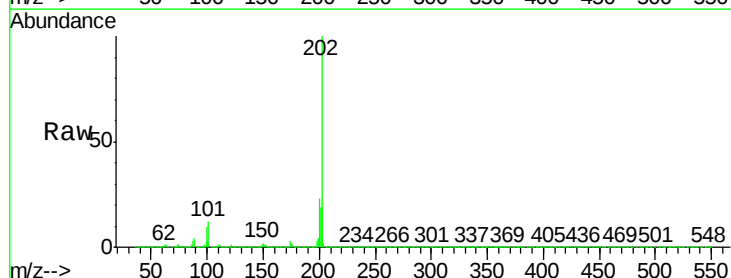
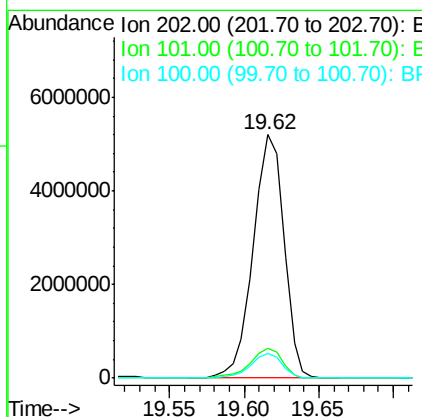
RT: 19.62 min Scan# 2793

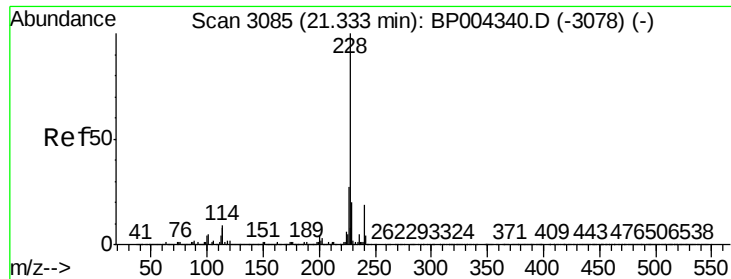
Delta R.T. -0.01 min

Lab File: BP004341.D

Acq: 17 Dec 2020 15:24

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 7433368 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 12.5  | 10.6  | 15.8    |
| 100       | 10.1  | 8.6   | 12.8    |





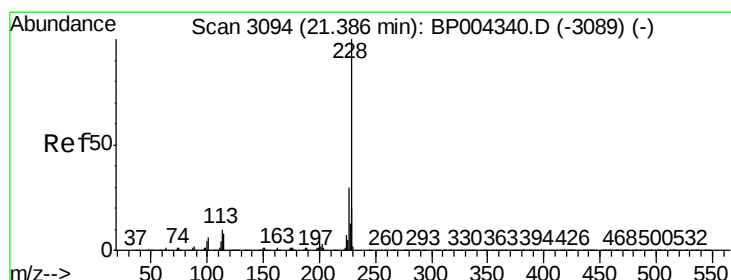
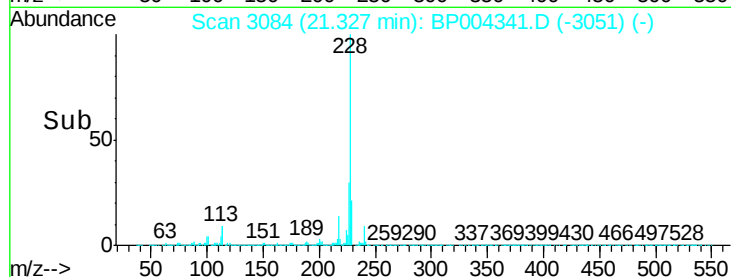
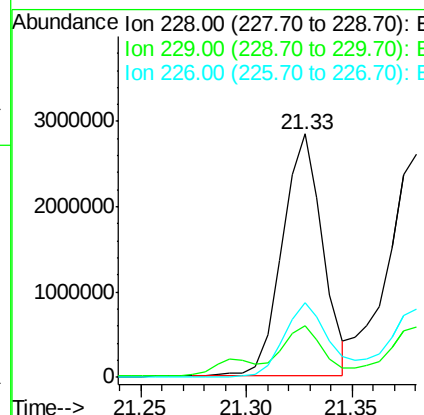
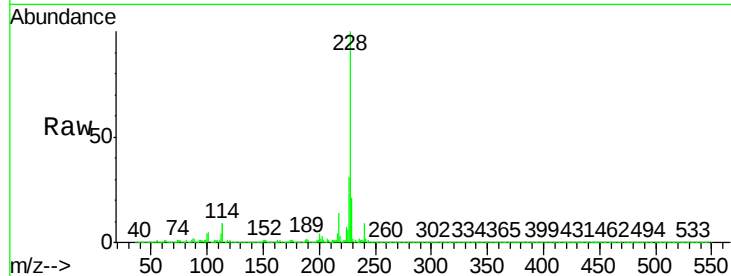
#83  
Benzo(a)anthracene  
Concen: 38.984 ng/ul  
RT: 21.33 min Scan# 3084  
Delta R.T. -0.01 min  
Lab File: BP004341.D  
Acq: 17 Dec 2020 15:24

Instrument :  
BNA\_P  
ClientSampleId :  
A54E1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.0  | 15.8  | 23.8  |
| 226     | 30.7  | 21.7  | 32.5  |

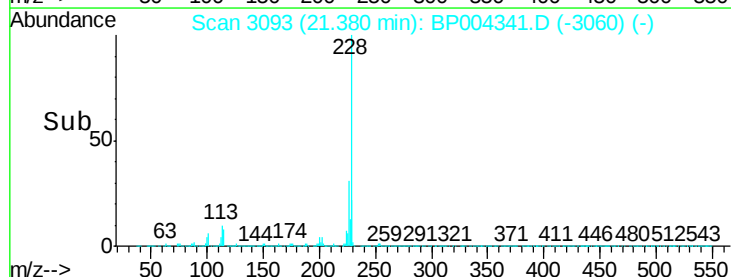
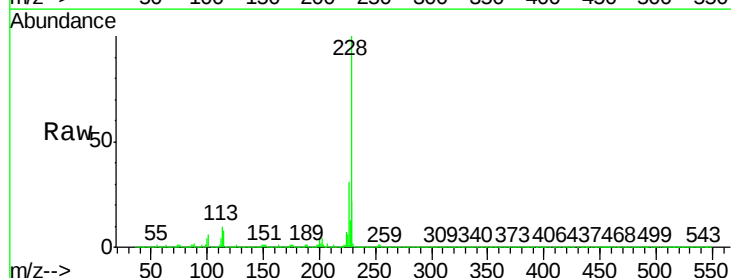
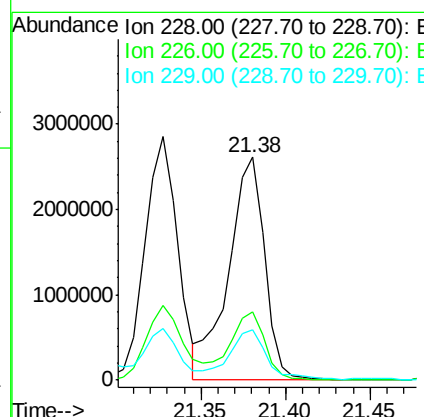
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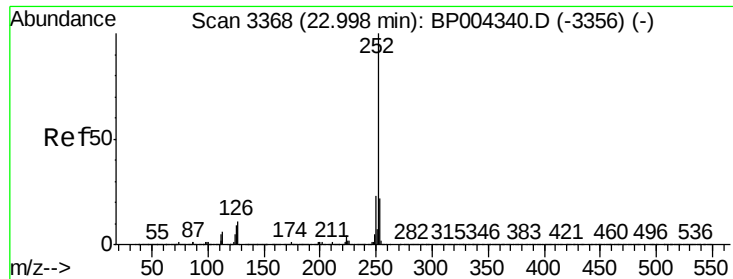
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#85  
Chrysene  
Concen: 41.032 ng/ul  
RT: 21.38 min Scan# 3093  
Delta R.T. -0.01 min  
Lab File: BP004341.D  
Acq: 17 Dec 2020 15:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.8  | 24.2  | 36.2  |
| 229     | 22.3  | 15.8  | 23.8  |





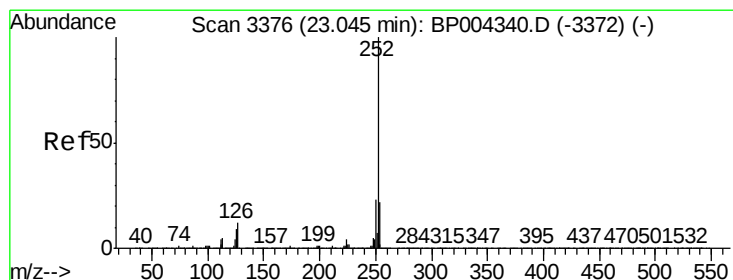
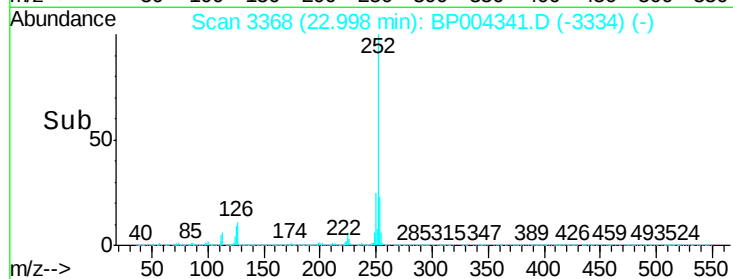
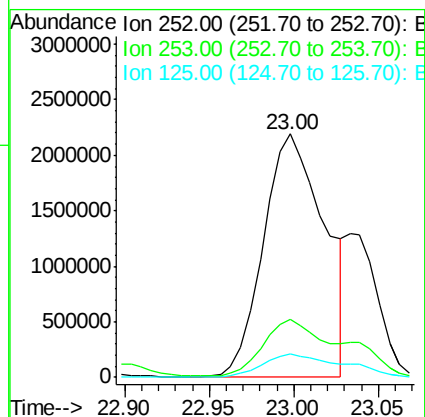
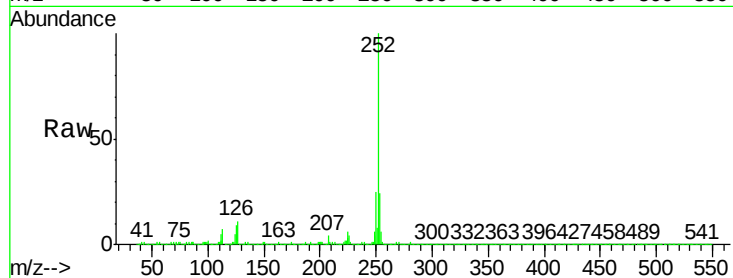
#88  
Benzo(b)fluoranthene  
Concen: 53.360 ng/ul  
RT: 23.00 min Scan# 3368  
Delta R.T. -0.00 min  
Lab File: BP004341.D  
Acq: 17 Dec 2020 15:24

Instrument :  
BNA\_P  
ClientSampled :  
A54E1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.6  | 26.4  |
| 125     | 9.5   | 7.7   | 11.5  |

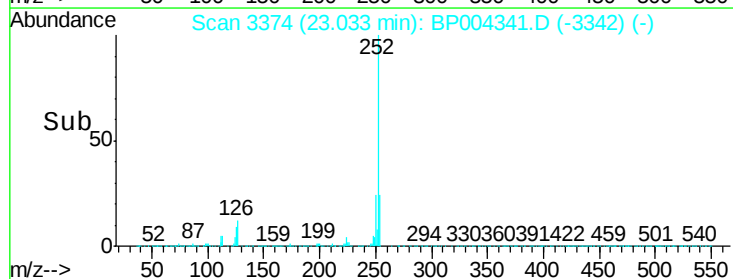
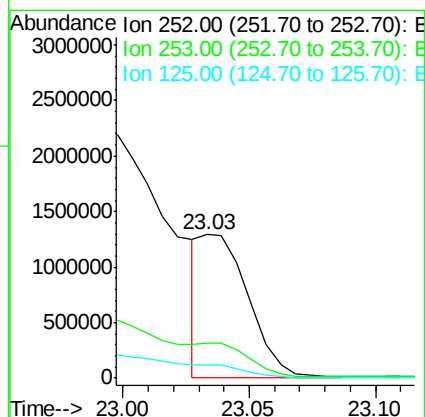
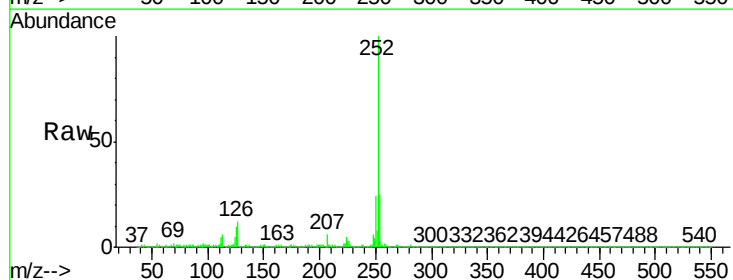
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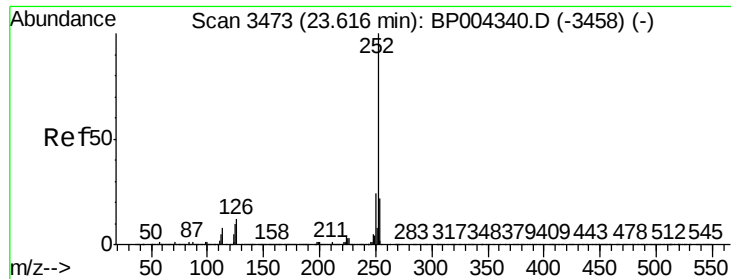
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#89  
Benzo(k)fluoranthene  
Concen: 15.946 ng/ul m  
RT: 23.03 min Scan# 3374  
Delta R.T. -0.01 min  
Lab File: BP004341.D  
Acq: 17 Dec 2020 15:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.7  | 17.4  | 26.2  |
| 125     | 9.5   | 7.3   | 10.9  |





#91

Benzo(a)pyrene

Concen: 43.453 ng/u1

RT: 23.61 min Scan# 3472

Delta R.T. -0.01 min

Lab File: BP004341.D

Acq: 17 Dec 2020 15:24

Instrument :

BNA\_P

ClientSampled :

A54E1

Tot Ion:252 Resp: 4170684

Ion Ratio Lower Upper

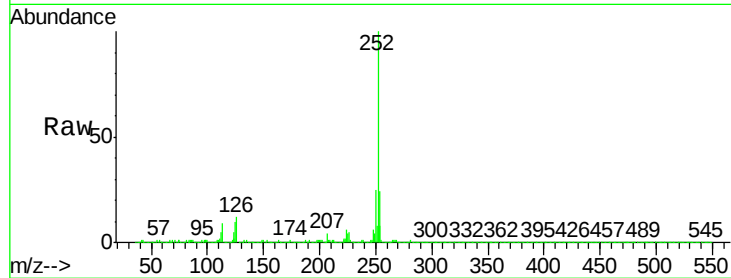
252 100

253 23.9 17.3 25.9

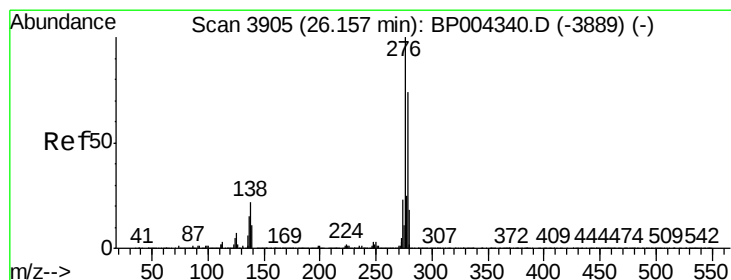
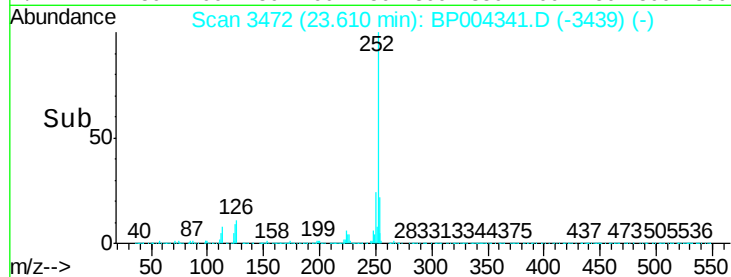
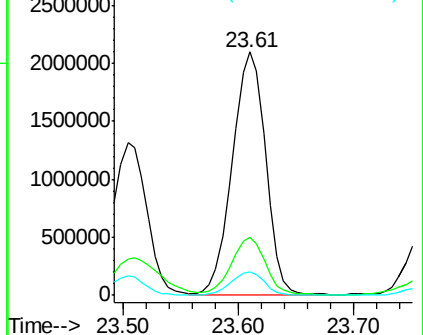
125 9.6 7.8 11.6

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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



#92

Indeno(1,2,3-cd)pyrene

Concen: 25.736 ng/u1

RT: 26.15 min Scan# 3904

Delta R.T. -0.01 min

Lab File: BP004341.D

Acq: 17 Dec 2020 15:24

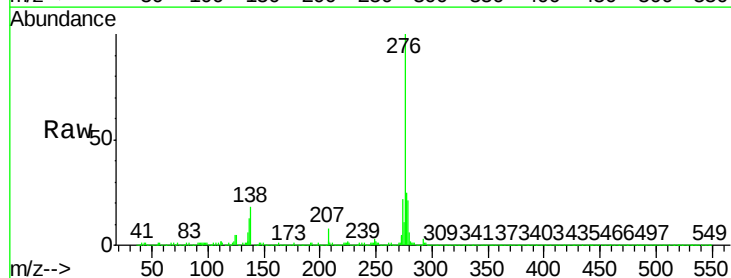
Tgt Ion:276 Resp: 3097798

Ion Ratio Lower Upper

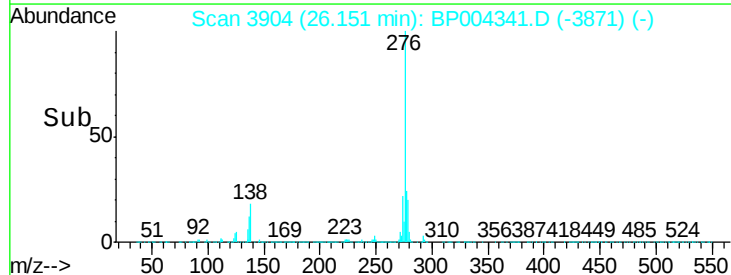
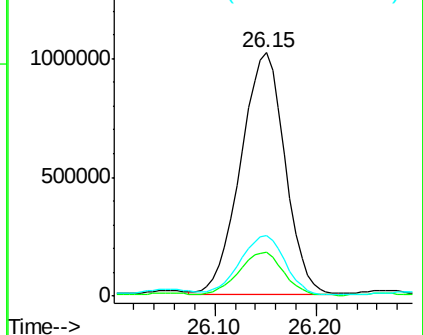
276 100

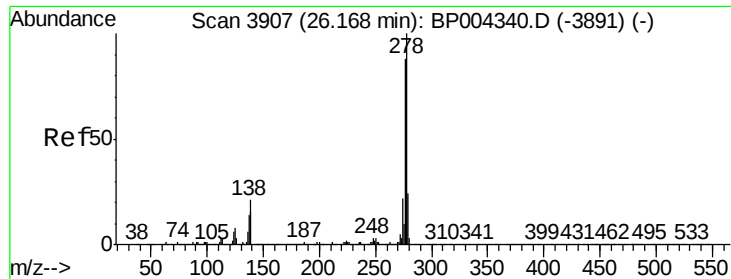
138 17.9 17.8 26.6

277 24.8 19.8 29.6



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





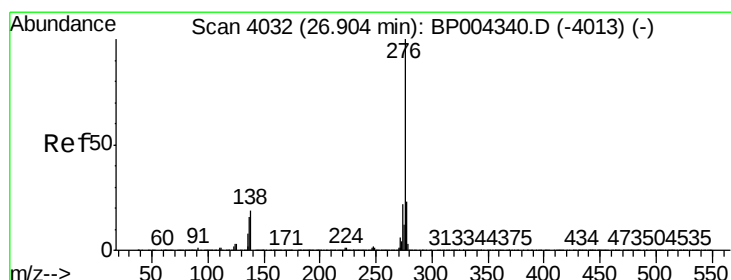
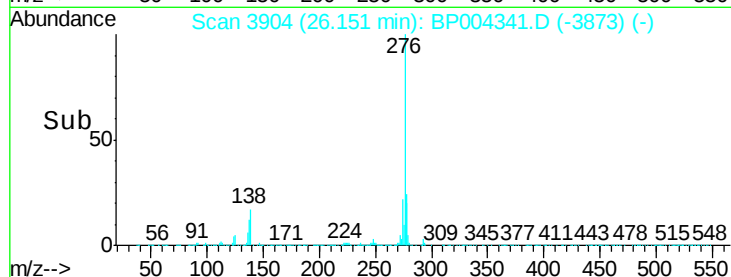
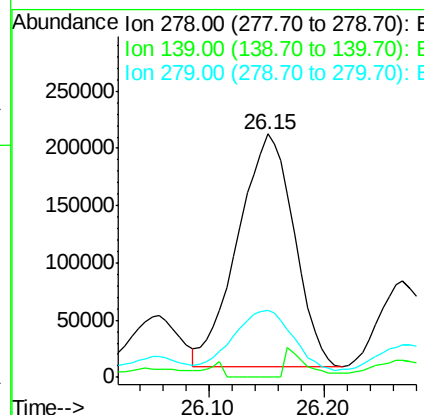
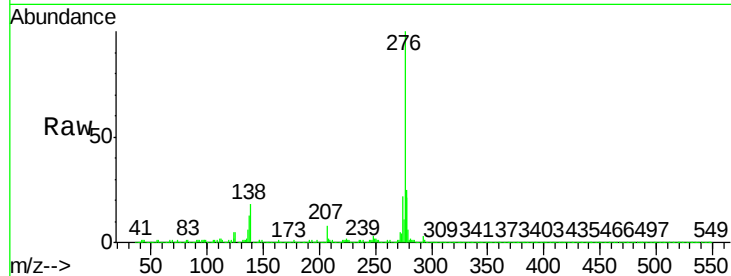
#93  
Dibenzo(a,h)anthracene  
Concen: 6.816 ng/ul  
RT: 26.15 min Scan# 3904  
Delta R.T. -0.02 min  
Lab File: BP004341.D  
Acq: 17 Dec 2020 15:24

Instrument :  
BNA\_P  
ClientSampleId :  
A54E1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 11.9  | 17.9# |
| 279     | 27.8  | 18.6  | 28.0  |

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#94  
Benzo(g,h,i)perylene  
Concen: 28.084 ng/ul  
RT: 26.90 min Scan# 4032  
Delta R.T. -0.00 min  
Lab File: BP004341.D  
Acq: 17 Dec 2020 15:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.6  | 16.6  | 25.0  |
| 277     | 24.5  | 18.5  | 27.7  |

