

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP071724\  
 Data File : BP021040.D  
 Acq On : 18 Jul 2024 07:55  
 Operator : MA/JU  
 Sample : P3215-13  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 A4D26

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 07/18/2024  
 Supervised By :mohammad ahmed 07/19/2024

Quant Time: Jul 18 08:39:54 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP071024.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jul 18 06:57:29 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.699  | 152  | 217983   | 20.000 | ng/u1  | 0.01     |
| 20) Naphthalene-d8            | 10.469 | 136  | 907226   | 20.000 | ng/u1  | 0.02     |
| 38) Acenaphthene-d10          | 14.316 | 164  | 592386   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.139 | 188  | 1191674  | 20.000 | ng/u1  | 0.02     |
| 79) Chrysene-d12              | 21.592 | 240  | 1016372  | 20.000 | ng/u1  | 0.03     |
| 88) Perylene-d12              | 24.915 | 264  | 1225911  | 20.000 | ng/u1  | 0.04     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.252  | 96   | 14547    | 3.037  | ng/uL  | 0.01     |
| 4) Pyridine-d5                | 3.693  | 84   | 12378m   | 0.893  | ng/u1  | 0.04     |
| 7) Phenol-d5                  | 6.928  | 99   | 413804   | 23.285 | ng/u1  | 0.04     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.052  | 67   | 249695   | 23.184 | ng/u1  | 0.02     |
| 11) 2-Chlorophenol-d4         | 7.258  | 132  | 352125   | 24.049 | ng/u1  | 0.02     |
| 15) 4-Methylphenol-d8         | 8.434  | 113  | 305664   | 20.709 | ng/u1  | 0.04     |
| 21) Nitrobenzene-d5           | 8.857  | 128  | 177192   | 25.146 | ng/u1  | 0.02     |
| 24) 2-Nitrophenol-d4          | 9.563  | 143  | 209364   | 25.959 | ng/u1  | 0.02     |
| 28) 2,4-Dichlorophenol-d3     | 10.122 | 165  | 363067   | 24.895 | ng/u1  | 0.04     |
| 31) 4-Chloroaniline-d4        | 10.628 | 131  | 73846m   | 3.822  | ng/u1  | 0.03     |
| 46) Dimethylphthalate-d6      | 13.734 | 166  | 1145864  | 26.609 | ng/u1  | 0.02     |
| 49) Acenaphthylene-d8         | 14.016 | 160  | 1276852  | 26.406 | ng/u1  | 0.02     |
| 54) 4-Nitrophenol-d4          | 14.628 | 143  | 131699m  | 21.495 | ng/u1  | 0.05     |
| 60) Fluorene-d10              | 15.339 | 176  | 967118   | 27.375 | ng/u1  | 0.02     |
| 65) 4,6-Dinitro-2-methylph... | 15.498 | 200  | 67130    | 9.310  | ng/u1  | 0.04     |
| 73) Anthracene-d10            | 17.239 | 188  | 1447355  | 27.346 | ng/u1  | 0.01     |
| 81) Pyrene-d10                | 19.627 | 212  | 1174189  | 18.686 | ng/u1  | 0.02     |
| 92) Benzo(a)pyrene-d12        | 24.692 | 264  | 761696   | 12.598 | ng/u1  | 0.05     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 30) Naphthalene               | 10.510 | 128  | 72549    | 1.520  | ng/u1  | 99       |
| 36) 2-Methylnaphthalene       | 12.116 | 142  | 69149    | 2.111  | ng/u1  | 96       |
| 37) 1-Methylnaphthalene       | 12.345 | 142  | 71759    | 2.130  | ng/u1  | 99       |
| 72) Phenanthrene              | 17.181 | 178  | 511288   | 8.271  | ng/u1  | 99       |
| 74) Anthracene                | 17.286 | 178  | 66890m   | 1.061  | ng/u1  |          |
| 80) Fluoranthene              | 19.275 | 202  | 844775   | 11.132 | ng/u1  | 99       |
| 82) Pyrene                    | 19.657 | 202  | 493087   | 6.386  | ng/u1  | 99       |
| 85) Benzo(a)anthracene        | 21.574 | 228  | 396077   | 5.563  | ng/u1# | 85       |
| 87) Chrysene                  | 21.639 | 228  | 592730   | 8.959  | ng/u1# | 92       |
| 90) Benzo(b)fluoranthene      | 23.874 | 252  | 665988   | 8.952  | ng/u1# | 93       |
| 91) Benzo(k)fluoranthene      | 23.927 | 252  | 187065   | 2.520  | ng/u1# | 85       |
| 93) Benzo(a)pyrene            | 24.762 | 252  | 166656   | 2.371  | ng/u1# | 80       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.703 | 276  | 187412   | 2.069  | ng/u1# | 88       |
| 95) Dibenzo(a,h)anthracene    | 28.751 | 278  | 105829m  | 1.411  | ng/u1  |          |
| -----                         |        |      |          |        |        |          |

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

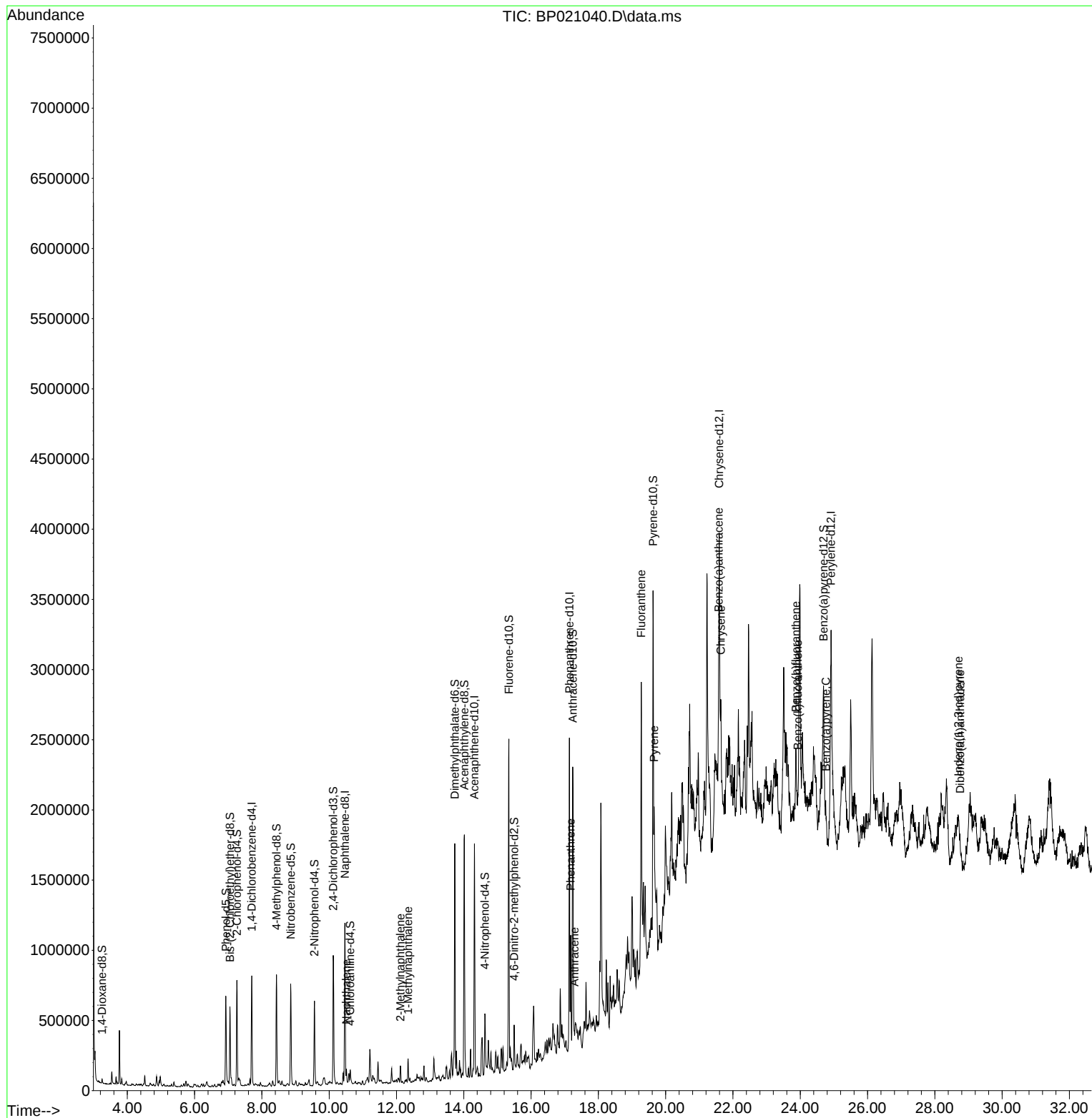
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP071724\  
 Data File : BP021040.D  
 Acq On : 18 Jul 2024 07:55  
 Operator : MA/JU  
 Sample : P3215-13  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

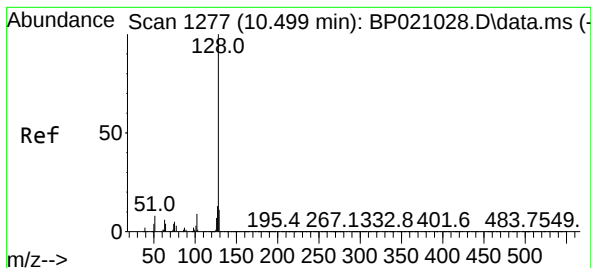
Instrument :  
 BNA\_P  
 ClientSampleId :  
 A4D26

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 07/18/2024  
 Supervised By :mohammad ahmed 07/19/2024

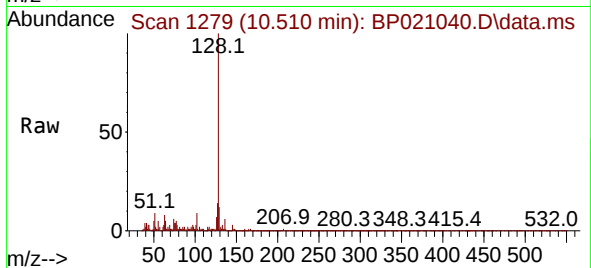
Quant Time: Jul 18 08:39:54 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP071024.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jul 18 06:57:29 2024  
 Response via : Initial Calibration





#30  
Naphthalene  
Concen: 1.520 ng/ul  
RT: 10.510 min Scan# 1279  
Delta R.T. 0.012 min  
Lab File: BP021040.D  
Acq: 18 Jul 2024 07:55

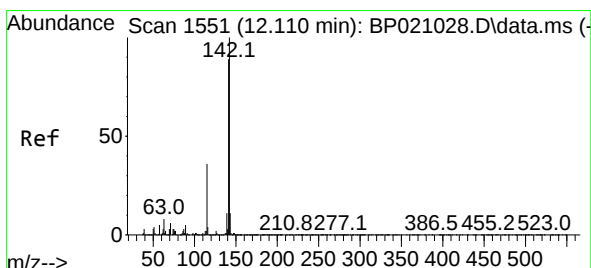
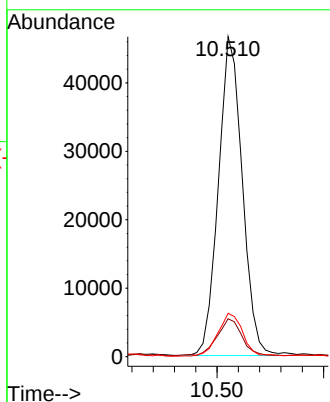
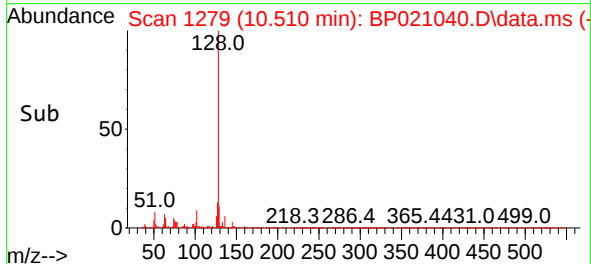
Instrument :  
BNA\_P  
ClientSampleId :  
A4D26



Tgt Ion:128 Resp: 72549  
Ion Ratio Lower Upper  
128 100  
129 11.9 8.6 13.0  
127 13.6 10.8 16.2

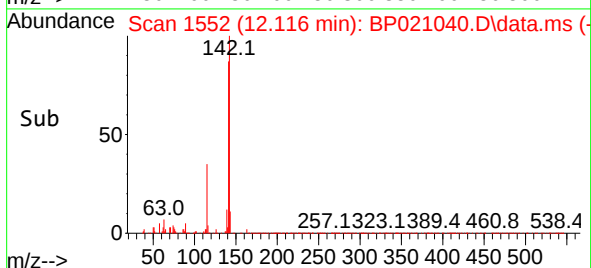
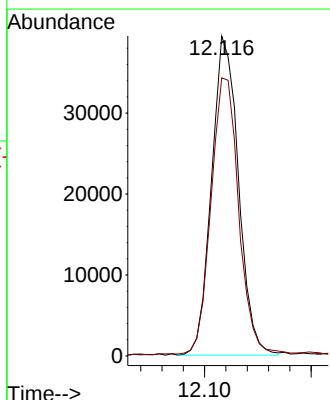
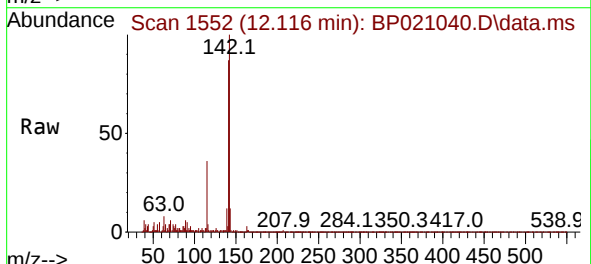
Manual Integrations  
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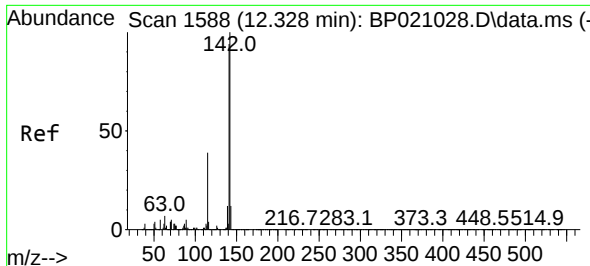
Reviewed By :Jagrut Upadhyay 07/18/2024  
Supervised By :mohammad ahmed 07/19/2024



#36  
2-Methylnaphthalene  
Concen: 2.111 ng/ul  
RT: 12.116 min Scan# 1552  
Delta R.T. 0.006 min  
Lab File: BP021040.D  
Acq: 18 Jul 2024 07:55

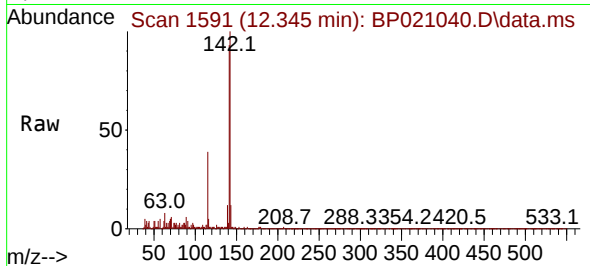
Tgt Ion:142 Resp: 69149  
Ion Ratio Lower Upper  
142 100  
141 86.9 72.6 108.8





#37  
1-Methylnaphthalene  
Concen: 2.130 ng/ul  
RT: 12.345 min Scan# 1591  
Delta R.T. 0.018 min  
Lab File: BP021040.D  
Acq: 18 Jul 2024 07:55

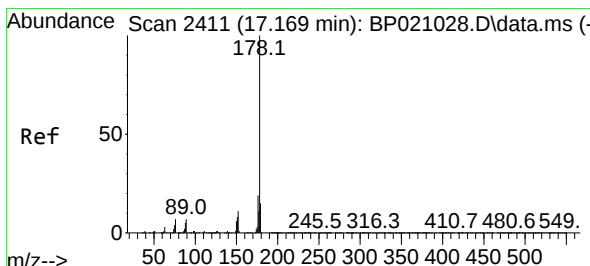
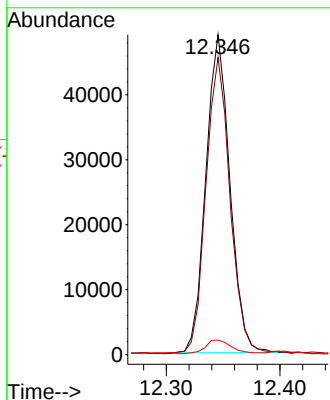
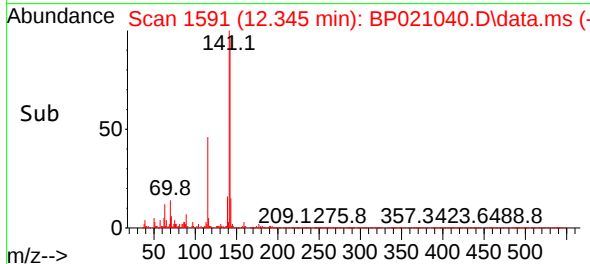
Instrument :  
BNA\_P  
ClientSampleId :  
A4D26



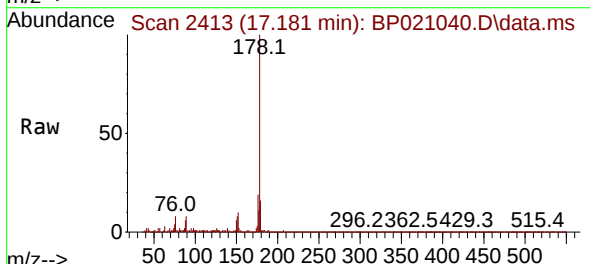
Tgt Ion:142 Resp: 71759  
Ion Ratio Lower Upper  
142 100  
141 92.9 75.0 112.6  
116 4.5 3.2 4.8

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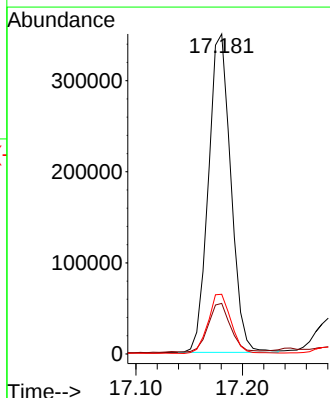
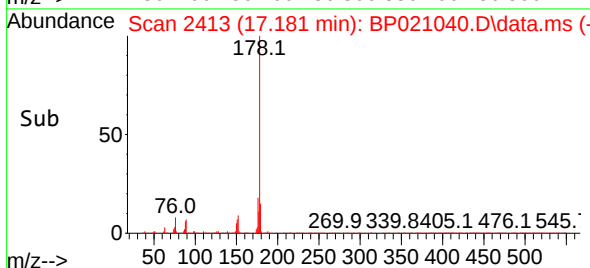
Reviewed By :Jagrut Upadhyay 07/18/2024  
Supervised By :mohammad ahmed 07/19/2024

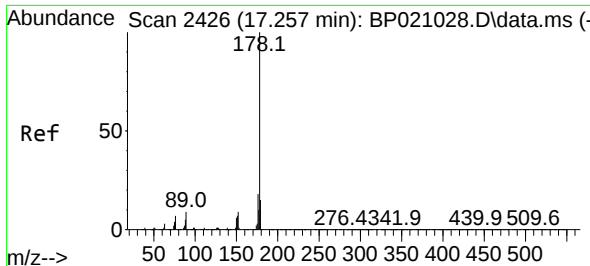


#72  
Phenanthrene  
Concen: 8.271 ng/ul  
RT: 17.181 min Scan# 2413  
Delta R.T. 0.012 min  
Lab File: BP021040.D  
Acq: 18 Jul 2024 07:55



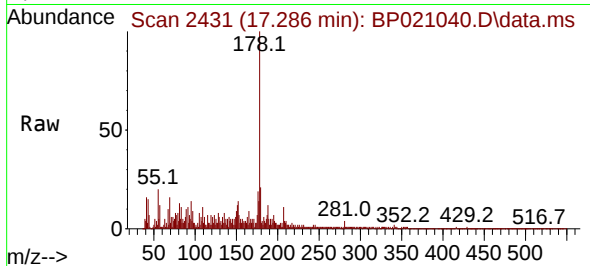
Tgt Ion:178 Resp: 511288  
Ion Ratio Lower Upper  
178 100  
179 15.8 12.2 18.4  
176 18.6 15.0 22.4





#74  
 Anthracene  
 Concen: 1.061 ng/ul m  
 RT: 17.286 min Scan# 2426  
 Delta R.T. 0.029 min  
 Lab File: BP021040.D  
 Acq: 18 Jul 2024 07:55

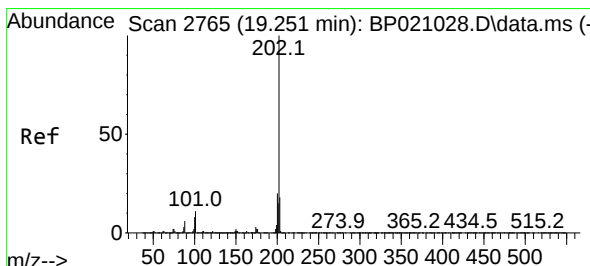
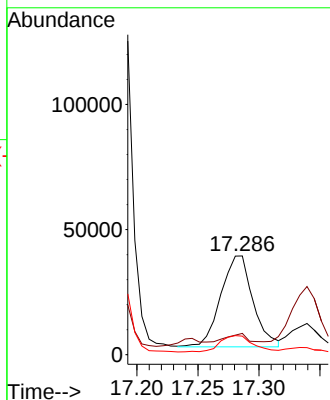
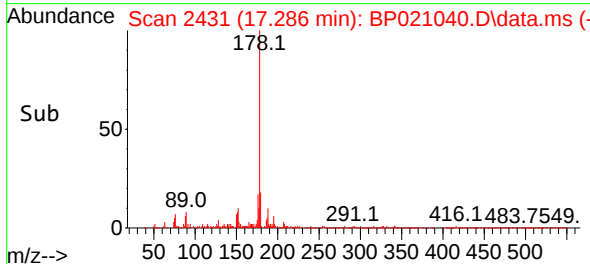
Instrument :  
 BNA\_P  
 ClientSampleId :  
 A4D26



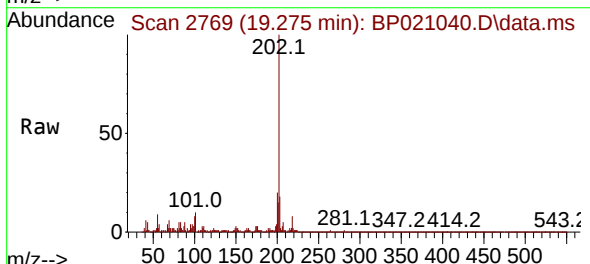
Tgt Ion:178 Resp: 66890  
 Ion Ratio Lower Upper  
 178 100  
 179 21.5 12.5 18.7  
 176 18.8 14.8 22.2

Manual Integrations  
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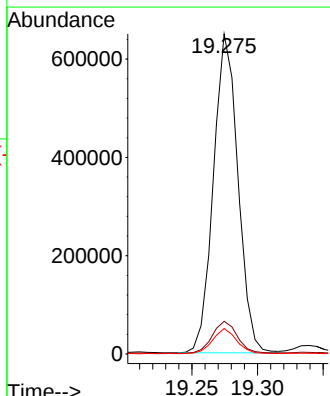
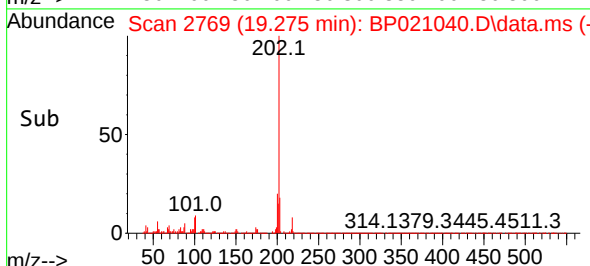
Reviewed By :Jagrut Upadhyay 07/18/2024  
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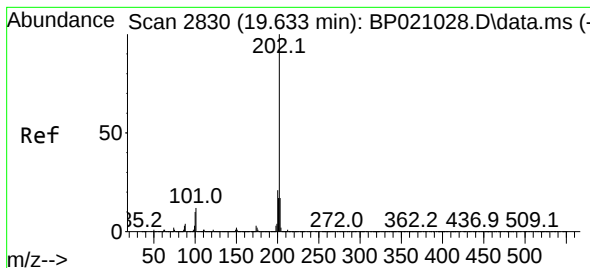


#80  
 Fluoranthene  
 Concen: 11.132 ng/ul  
 RT: 19.275 min Scan# 2769  
 Delta R.T. 0.023 min  
 Lab File: BP021040.D  
 Acq: 18 Jul 2024 07:55



Tgt Ion:202 Resp: 844775  
 Ion Ratio Lower Upper  
 202 100  
 101 10.2 8.0 12.0  
 100 7.9 6.1 9.1





#82

Pyrene

Concen: 6.386 ng/ul

RT: 19.657 min Scan# 21

Delta R.T. 0.023 min

Lab File: BP021040.D

Acq: 18 Jul 2024 07:55

Instrument :

BNA\_P

ClientSampleId :

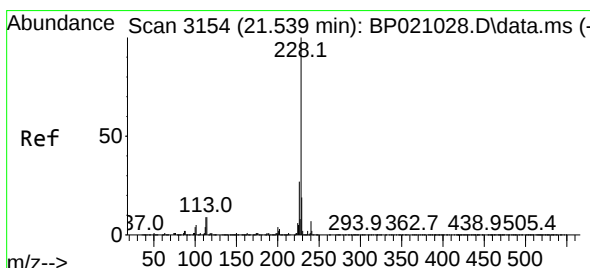
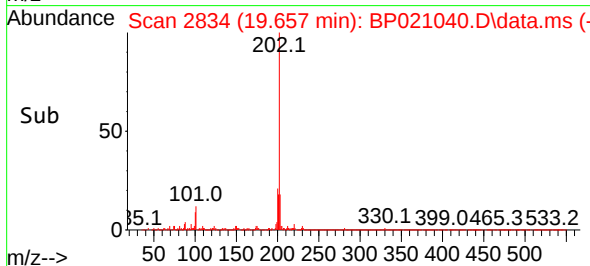
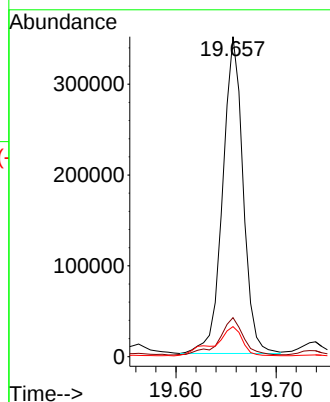
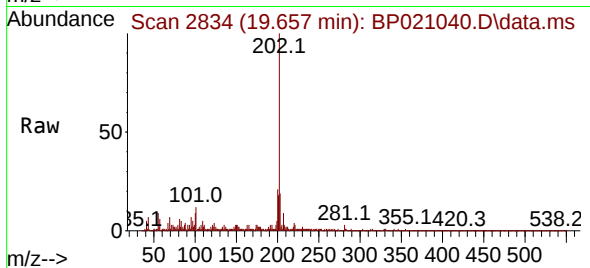
A4D26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 49308 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.2  | 9.4   | 14.2  |
| 100       | 9.4   | 7.8   | 11.6  |

Manual Integrations

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Supervised By :mohammad ahmed 07/19/2024



#85

Benzo(a)anthracene

Concen: 5.563 ng/ul

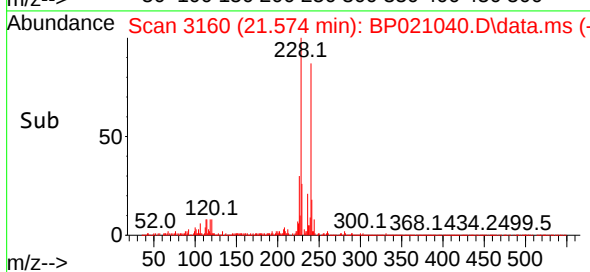
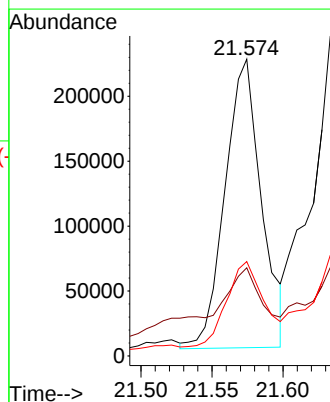
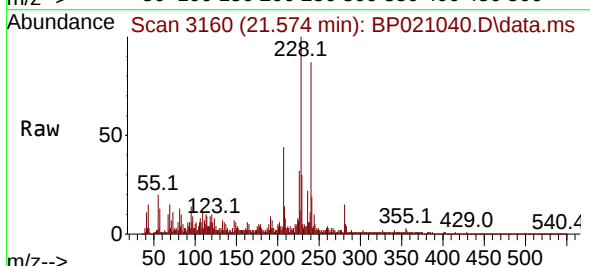
RT: 21.574 min Scan# 3160

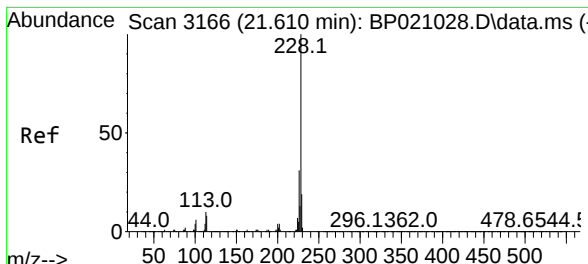
Delta R.T. 0.035 min

Lab File: BP021040.D

Acq: 18 Jul 2024 07:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 396077 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 29.7  | 15.5  | 23.3#  |
| 226       | 31.8  | 21.4  | 32.2   |





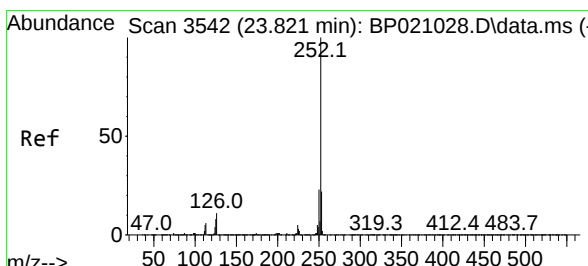
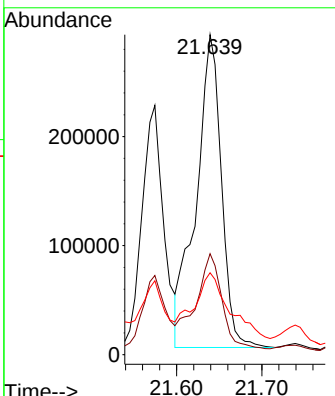
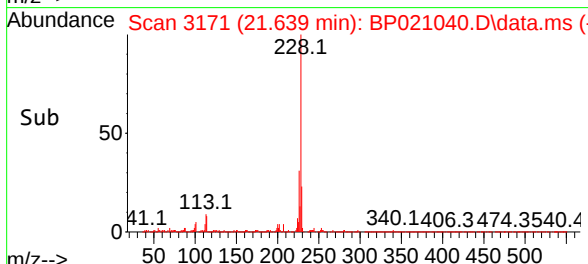
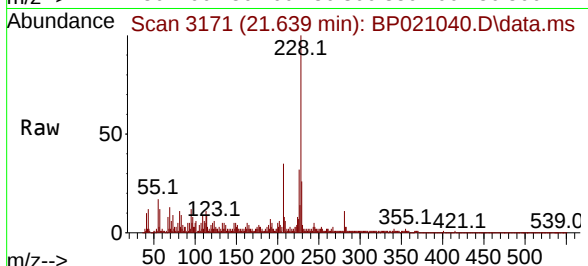
#87  
 Chrysene  
 Concen: 8.959 ng/ul  
 RT: 21.639 min Scan# 3166  
 Delta R.T. 0.029 min  
 Lab File: BP021040.D  
 Acq: 18 Jul 2024 07:55

Instrument : BNA\_P  
 ClientSampleId : A4D26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 592730 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.6  | 23.6  | 35.4   |
| 229       | 25.6  | 15.5  | 23.3   |

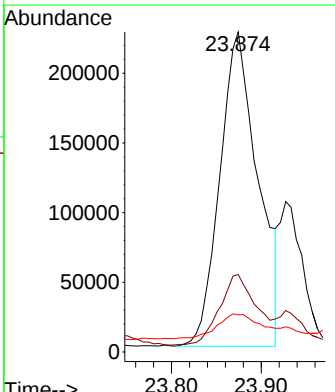
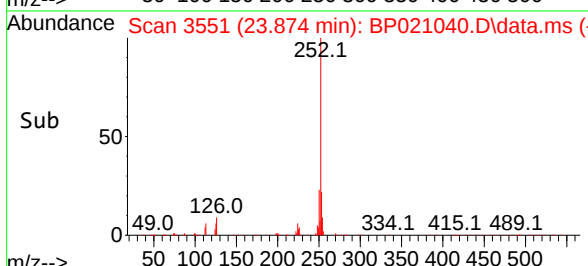
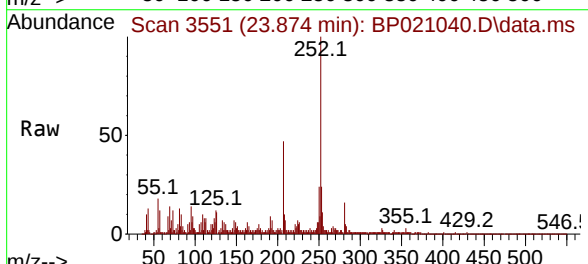
Manual Integrations  
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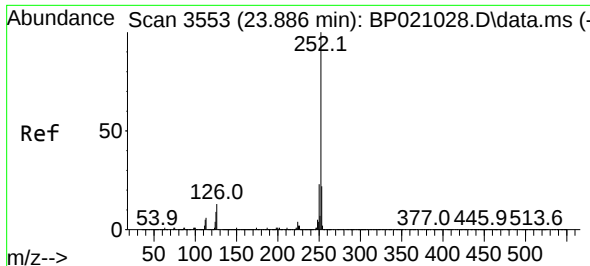
Reviewed By :Jagrut Upadhyay 07/18/2024  
 Supervised By :mohammad ahmed 07/19/2024



#90  
 Benzo(b)fluoranthene  
 Concen: 8.952 ng/ul  
 RT: 23.874 min Scan# 3551  
 Delta R.T. 0.053 min  
 Lab File: BP021040.D  
 Acq: 18 Jul 2024 07:55

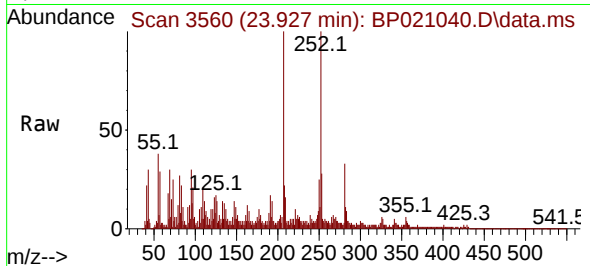
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|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 665988 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.2  | 17.1  | 25.7   |
| 125       | 11.6  | 7.0   | 10.4   |





#91  
Benzo(k)fluoranthene  
Concen: 2.520 ng/u1  
RT: 23.927 min Scan# 31  
Delta R.T. 0.041 min  
Lab File: BP021040.D  
Acq: 18 Jul 2024 07:55

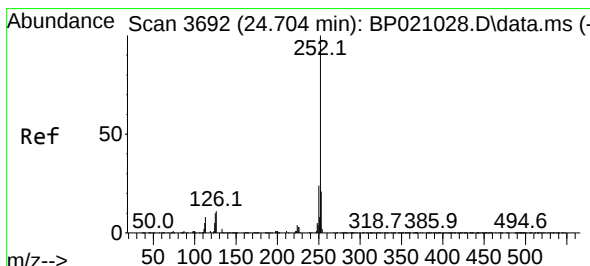
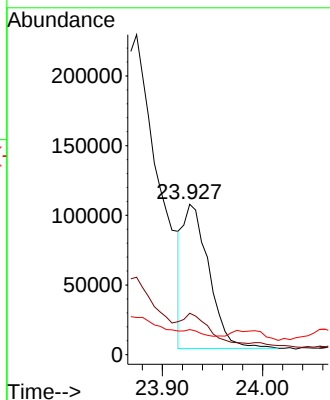
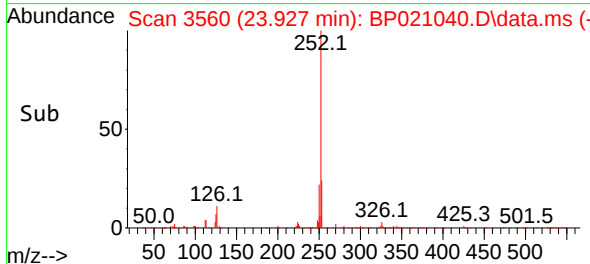
Instrument :  
BNA\_P  
ClientSampleId :  
A4D26



Tgt Ion:252 Resp: 187065  
Ion Ratio Lower Upper  
252 100  
253 27.5 17.4 26.2  
125 16.7 7.4 11.0

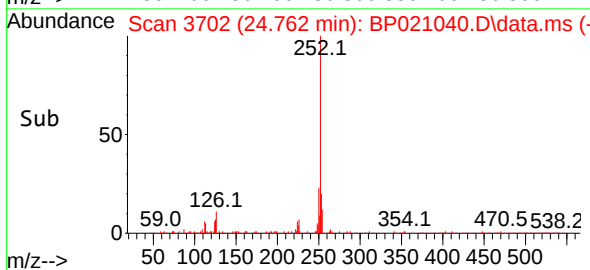
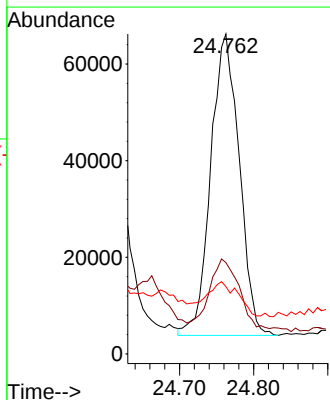
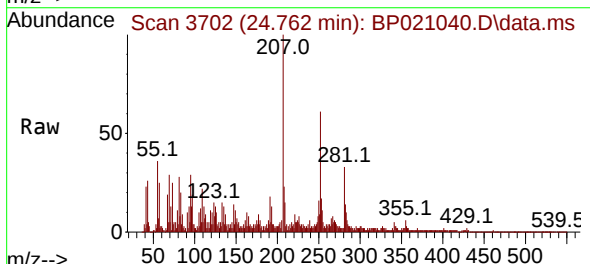
Manual Integrations  
APPROVED

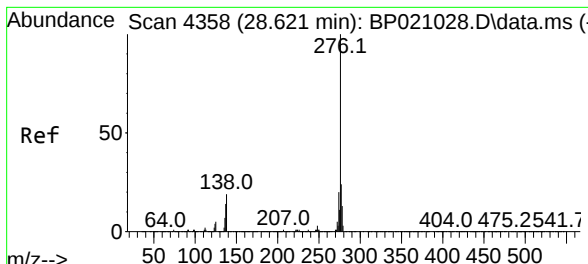
Reviewed By :Jagrut Upadhyay 07/18/2024  
Supervised By :mohammad ahmed 07/19/2024



#93  
Benzo(a)pyrene  
Concen: 2.371 ng/u1  
RT: 24.762 min Scan# 3702  
Delta R.T. 0.059 min  
Lab File: BP021040.D  
Acq: 18 Jul 2024 07:55

Tgt Ion:252 Resp: 166656  
Ion Ratio Lower Upper  
252 100  
253 28.6 17.4 26.0#  
125 21.0 7.7 11.5#



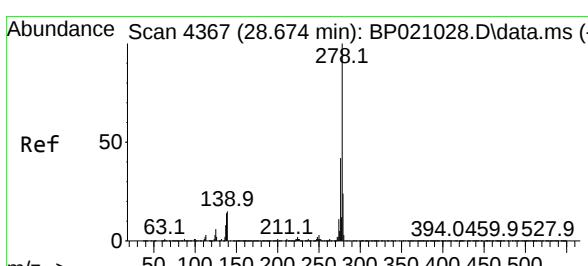
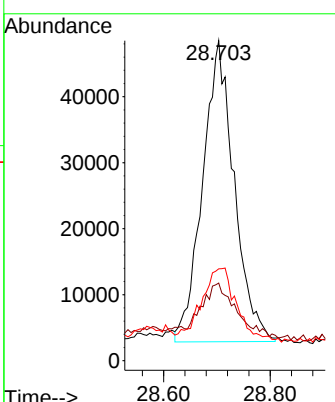
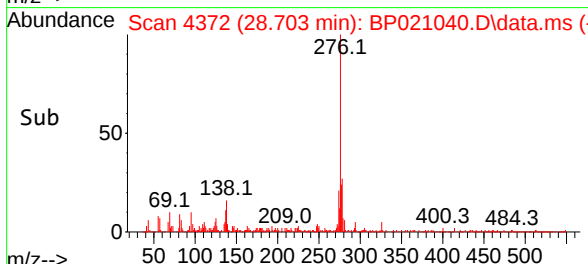
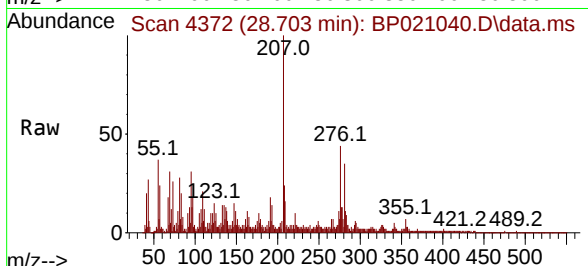


#94  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.069 ng/ul  
 RT: 28.703 min Scan# 4372  
 Delta R.T. 0.082 min  
 Lab File: BP021040.D  
 Acq: 18 Jul 2024 07:55

Instrument : BNA\_P  
 ClientSampleId : A4D26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 18741 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 24.2  | 14.3  | 21.5  |
| 277       | 28.7  | 19.2  | 28.8  |

Manual Integrations  
**APPROVED**  
 Reviewed By :Jagrut Upadhyay 07/18/2024  
 Supervised By :mohammad ahmed 07/19/2024



#95  
 Dibenzo(a,h)anthracene  
 Concen: 1.411 ng/ul m  
 RT: 28.751 min Scan# 4380  
 Delta R.T. 0.076 min  
 Lab File: BP021040.D  
 Acq: 18 Jul 2024 07:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 105829 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 32.5  | 10.9  | 16.3   |
| 279       | 44.7  | 19.4  | 29.0   |

