

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP110424\  
 Data File : BP022853.D  
 Acq On : 05 Nov 2024 09:11  
 Operator : RC/JU  
 Sample : P4568-17  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 A4EF1

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/06/2024  
 Supervised By :mohammad ahmed 11/08/2024

Quant Time: Nov 05 10:21:52 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP100724.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Oct 30 10:56:39 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.628  | 152  | 98611    | 20.000 | ng/ul  | -0.01    |
| 20) Naphthalene-d8            | 10.375 | 136  | 386585   | 20.000 | ng/ul  | -0.02    |
| 38) Acenaphthene-d10          | 14.245 | 164  | 313393   | 20.000 | ng/ul  | -0.02    |
| 64) Phenanthrene-d10          | 17.045 | 188  | 741204   | 20.000 | ng/ul  | -0.02    |
| 79) Chrysene-d12              | 21.480 | 240  | 719886   | 20.000 | ng/ul  | -0.02    |
| 88) Perylene-d12              | 24.727 | 264  | 864175   | 20.000 | ng/ul  | -0.02    |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.181  | 96   | 4234     | 1.669  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.599  | 84   | 47239    | 6.781  | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 6.822  | 99   | 100289   | 12.082 | ng/ul  | -0.01    |
| 9) Bis-(2-Chloroethyl)eth...  | 6.975  | 67   | 55940    | 11.466 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.169  | 132  | 76808    | 13.040 | ng/ul  | -0.01    |
| 15) 4-Methylphenol-d8         | 8.334  | 113  | 85953    | 12.975 | ng/ul  | -0.01    |
| 21) Nitrobenzene-d5           | 8.769  | 128  | 39155    | 13.173 | ng/ul  | -0.01    |
| 24) 2-Nitrophenol-d4          | 9.481  | 143  | 46841    | 13.611 | ng/ul  | -0.02    |
| 28) 2,4-Dichlorophenol-d3     | 10.022 | 165  | 100843   | 13.787 | ng/ul  | -0.01    |
| 31) 4-Chloroaniline-d4        | 10.534 | 131  | 65945    | 7.630  | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.645 | 166  | 356459   | 14.316 | ng/ul  | -0.02    |
| 49) Acenaphthylene-d8         | 13.928 | 160  | 376680   | 14.243 | ng/ul  | -0.02    |
| 54) 4-Nitrophenol-d4          | 14.516 | 143  | 42249m   | 10.114 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.263 | 176  | 327826   | 15.179 | ng/ul  | -0.01    |
| 65) 4,6-Dinitro-2-methylph... | 15.410 | 200  | 29634    | 6.079  | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.151 | 188  | 523316   | 15.008 | ng/ul  | -0.02    |
| 81) Pyrene-d10                | 19.533 | 212  | 540303   | 14.193 | ng/ul  | -0.01    |
| 92) Benzo(a)pyrene-d12        | 24.504 | 264  | 515509   | 11.170 | ng/ul  | -0.02    |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 8) Phenol                     | 6.852  | 94   | 11837    | 1.371  | ng/ul  | 93       |
| 16) Acetophenone              | 8.440  | 105  | 66252    | 6.058  | ng/ul  | 98       |
| 52) Acenaphthene              | 14.304 | 153  | 46780    | 2.410  | ng/ul  | 99       |
| 56) Dibenzofuran              | 14.657 | 168  | 49025    | 1.682  | ng/ul  | 98       |
| 61) Fluorene                  | 15.310 | 166  | 52017    | 2.190  | ng/ul  | 98       |
| 72) Phenanthrene              | 17.086 | 178  | 1067513  | 26.920 | ng/ul  | 99       |
| 74) Anthracene                | 17.192 | 178  | 208484   | 5.268  | ng/ul  | 100      |
| 77) Carbazole                 | 17.469 | 167  | 57553    | 1.644  | ng/ul  | 96       |
| 80) Fluoranthene              | 19.186 | 202  | 1324638  | 30.267 | ng/ul  | 99       |
| 82) Pyrene                    | 19.569 | 202  | 735867   | 15.688 | ng/ul  | 97       |
| 85) Benzo(a)anthracene        | 21.463 | 228  | 568549   | 11.266 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.398 | 149  | 37599    | 1.604  | ng/ul  | 99       |
| 87) Chrysene                  | 21.527 | 228  | 544923   | 11.645 | ng/ul  | 97       |
| 90) Benzo(b)fluoranthene      | 23.704 | 252  | 600058   | 11.031 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 23.763 | 252  | 187260   | 3.516  | ng/ul  | 96       |
| 93) Benzo(a)pyrene            | 24.568 | 252  | 169931   | 3.394  | ng/ul  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.409 | 276  | 161864m  | 2.423  | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 28.462 | 278  | 86005m   | 1.590  | ng/ul  |          |
| -----                         |        |      |          |        |        |          |

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

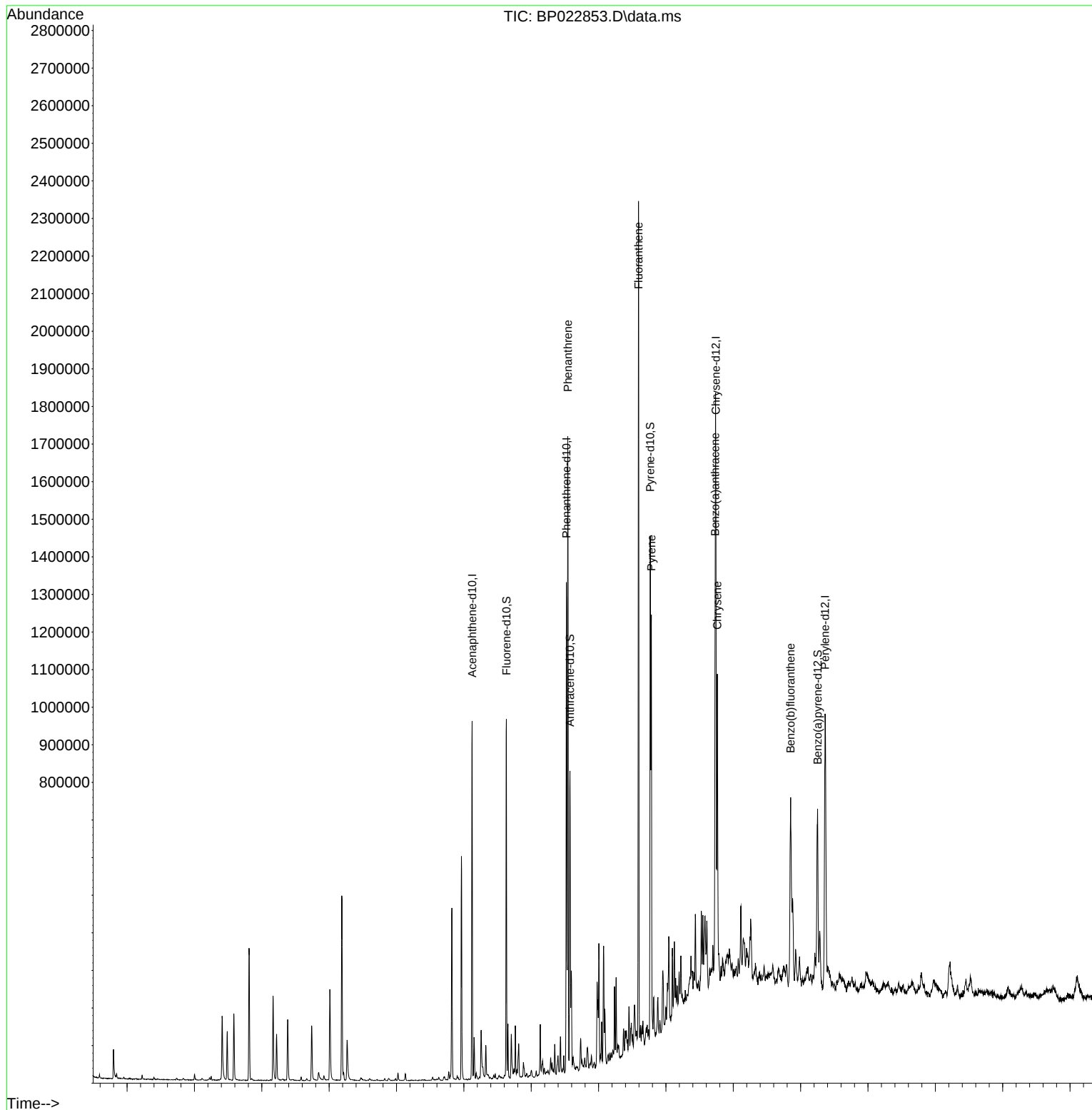
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP110424\  
Data File : BP022853.D  
Acq On : 05 Nov 2024 09:11  
Operator : RC/JU  
Sample : P4568-17  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

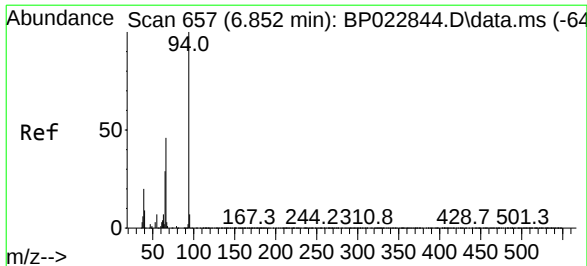
Instrument :  
BNA\_P  
ClientSampleId :  
A4EF1

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/06/2024  
Supervised By :mohammad ahmed 11/08/2024

Quant Time: Nov 05 10:21:52 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP100724.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Oct 30 10:56:39 2024  
Response via : Initial Calibration





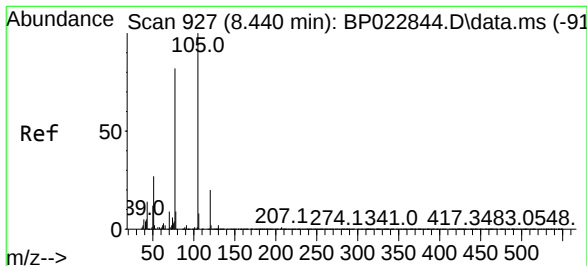
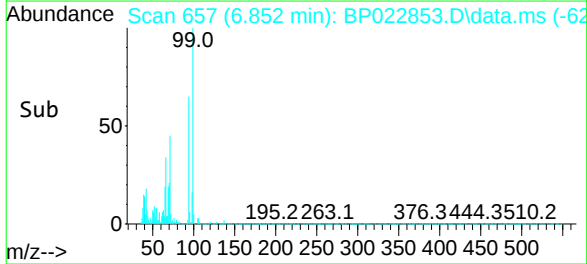
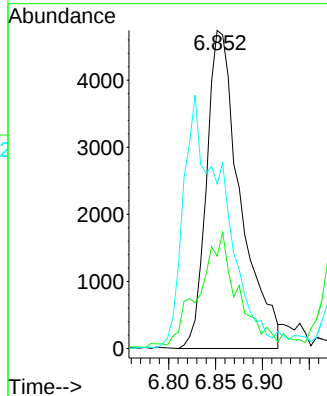
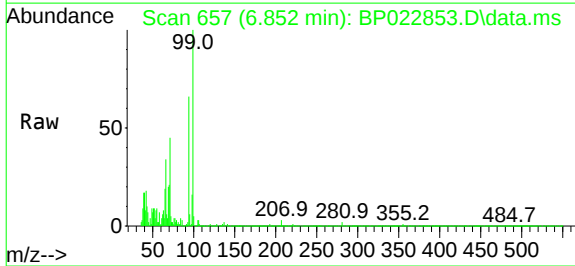
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Phenol  
Concen: 1.371 ng/ul  
RT: 6.852 min Scan# 657  
Delta R.T. -0.006 min  
Lab File: BP022853.D  
Acq: 05 Nov 2024 09:11

Instrument :  
BNA\_P  
ClientSampleId :  
A4EF1

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 94  | 100  |       |       |       |
| 65  | 29.0 | 25.9  | 38.9  |       |
| 66  | 51.8 | 37.6  | 56.4  |       |

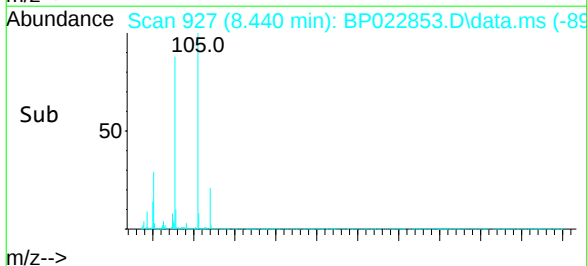
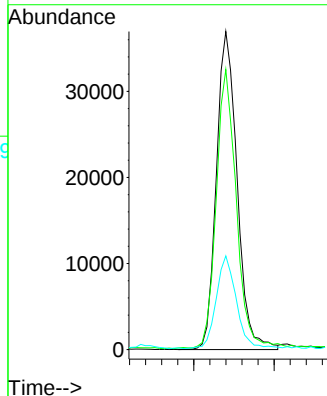
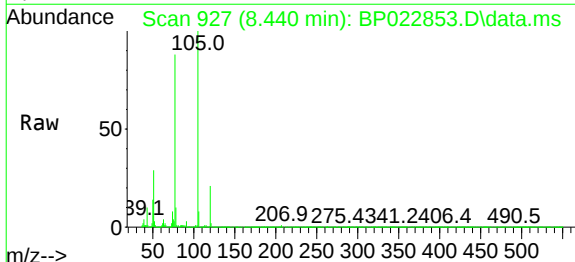
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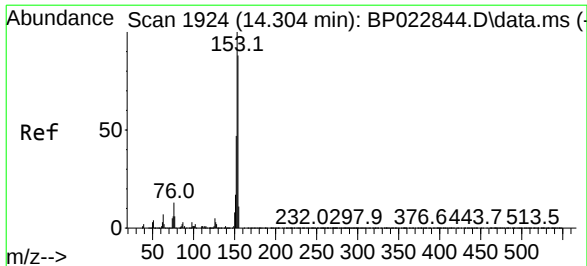
Reviewed By :Yogesh Patel 11/06/2024  
Supervised By :mohammad ahmed 11/08/2024



#16  
Acetophenone  
Concen: 6.058 ng/ul  
RT: 8.440 min Scan# 927  
Delta R.T. -0.012 min  
Lab File: BP022853.D  
Acq: 05 Nov 2024 09:11

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 105 | 100  |       |       |       |
| 77  | 88.0 | 69.0  | 103.4 |       |
| 51  | 29.5 | 22.6  | 33.8  |       |





#52

Acenaphthene

Concen: 2.410 ng/u1

RT: 14.304 min Scan# 19

Delta R.T. -0.024 min

Lab File: BP022853.D

Acq: 05 Nov 2024 09:11

Instrument :

BNA\_P

ClientSampleId :

A4EF1

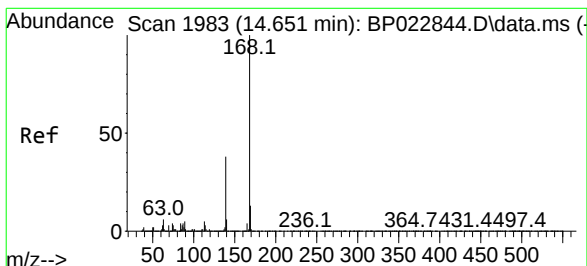
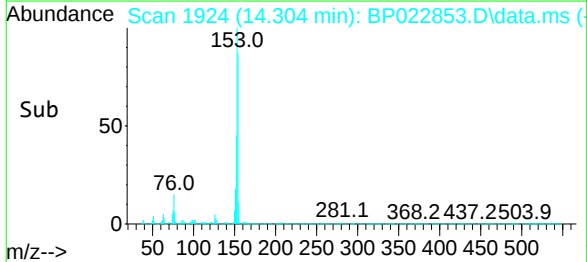
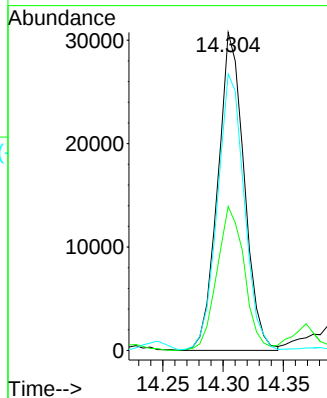
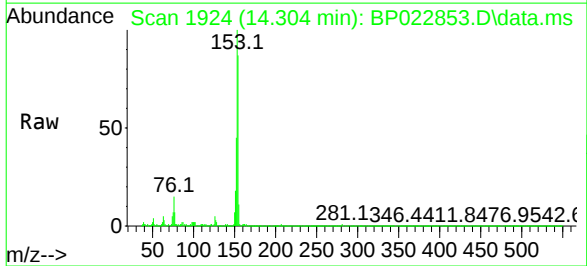
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 46780 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 45.3  | 37.8  | 56.6  |
| 154       | 86.9  | 69.5  | 104.3 |

Manual Integrations

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Reviewed By :Yogesh Patel 11/06/2024

Supervised By :mohammad ahmed 11/08/2024



#56

Dibenzofuran

Concen: 1.682 ng/u1

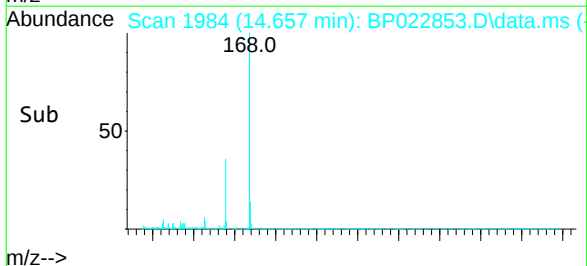
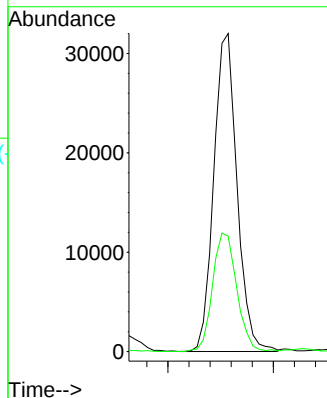
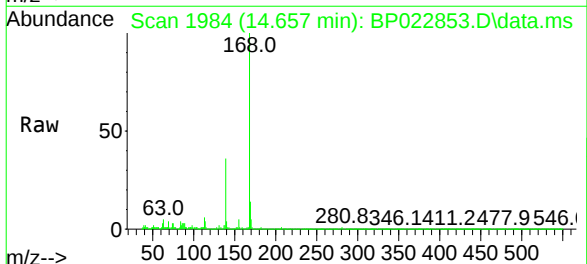
RT: 14.657 min Scan# 1984

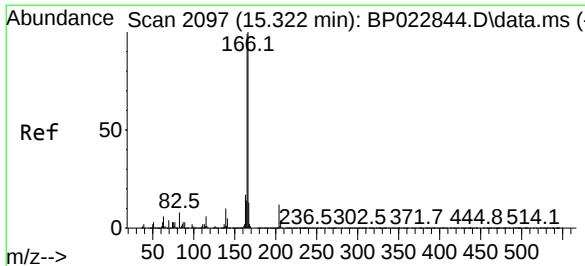
Delta R.T. -0.012 min

Lab File: BP022853.D

Acq: 05 Nov 2024 09:11

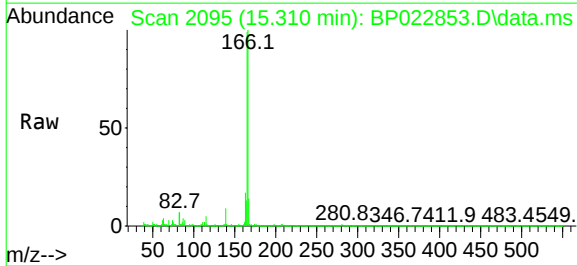
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 49025 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 36.3  | 30.2  | 45.2  |





#61  
Fluorene  
Concen: 2.190 ng/u1  
RT: 15.310 min Scan# 2097  
Delta R.T. -0.018 min  
Lab File: BP022853.D  
Acq: 05 Nov 2024 09:11

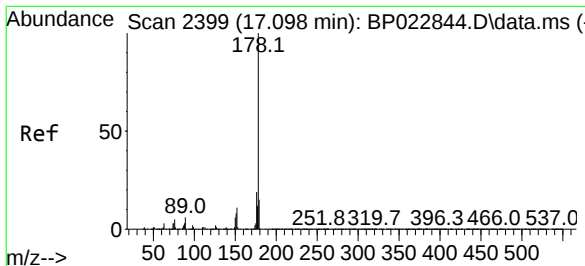
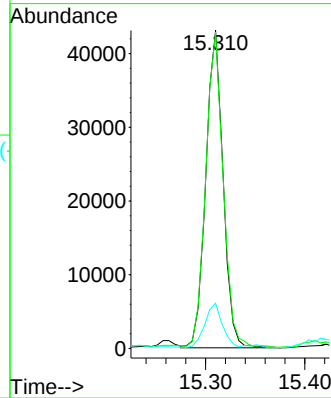
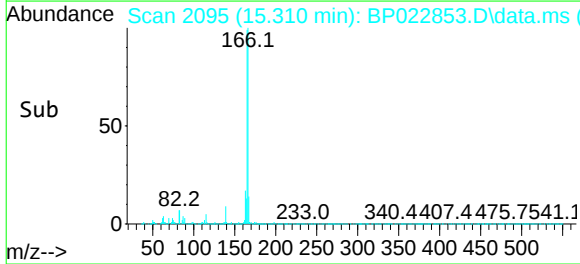
Instrument :  
BNA\_P  
ClientSampleId :  
A4EF1



Tgt Ion:166 Resp: 52017  
Ion Ratio Lower Upper  
166 100  
165 99.4 77.8 116.6  
167 14.2 11.1 16.7

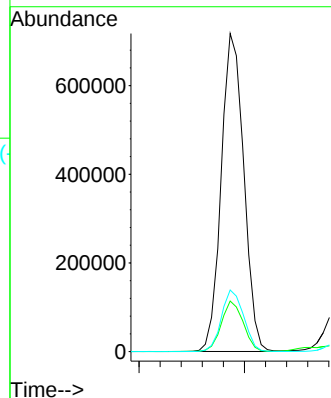
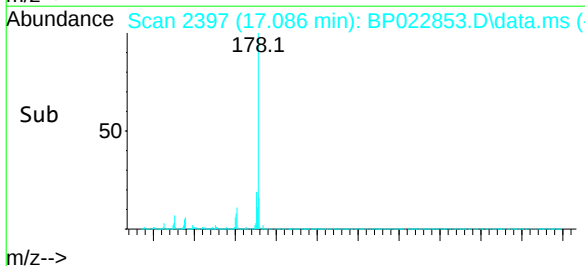
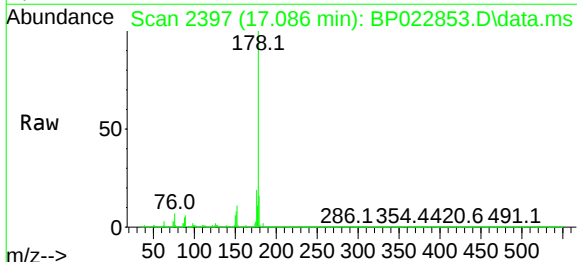
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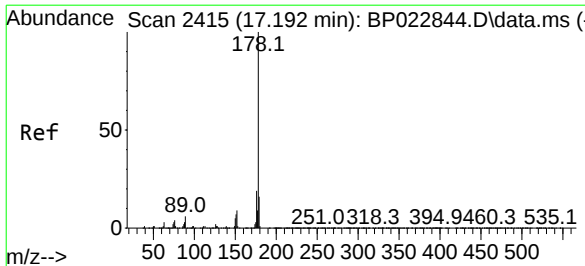
Reviewed By :Yogesh Patel 11/06/2024  
Supervised By :mohammad ahmed 11/08/2024



#72  
Phenanthrene  
Concen: 26.920 ng/u1  
RT: 17.086 min Scan# 2397  
Delta R.T. -0.018 min  
Lab File: BP022853.D  
Acq: 05 Nov 2024 09:11

Tgt Ion:178 Resp: 1067513  
Ion Ratio Lower Upper  
178 100  
179 15.9 12.2 18.4  
176 19.4 15.7 23.5





#74

Anthracene

Concen: 5.268 ng/u1

RT: 17.192 min Scan# 2415

Delta R.T. -0.012 min

Lab File: BP022853.D

Acq: 05 Nov 2024 09:11

Instrument :

BNA\_P

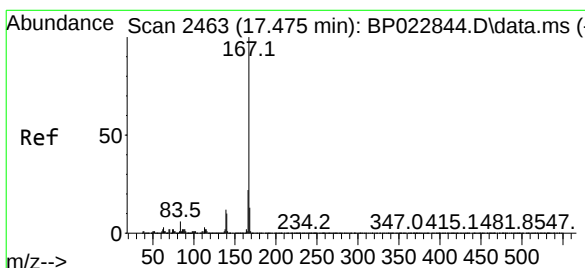
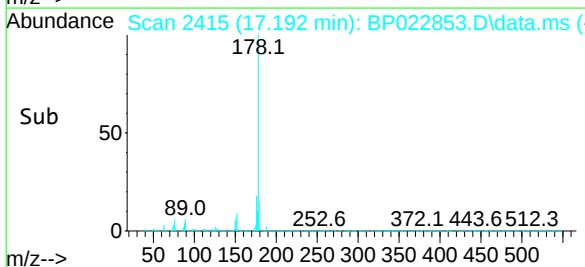
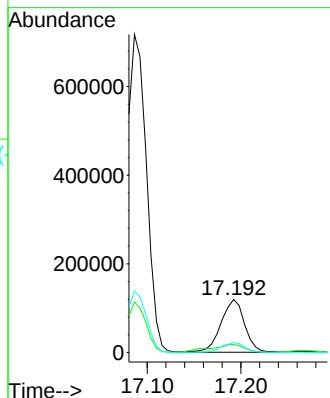
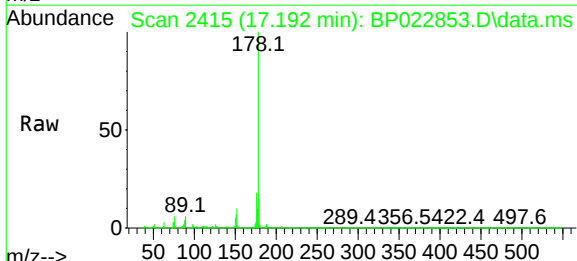
ClientSampleId :

A4EF1

|             |              |
|-------------|--------------|
| Tgt Ion:178 | Resp: 208484 |
| Ion Ratio   | Lower Upper  |
| 178 100     |              |
| 179 14.9    | 12.0 18.0    |
| 176 18.4    | 15.0 22.4    |

Manual Integrations  
APPROVED

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#77

Carbazole

Concen: 1.644 ng/u1

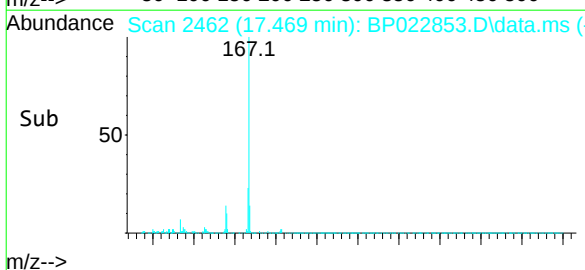
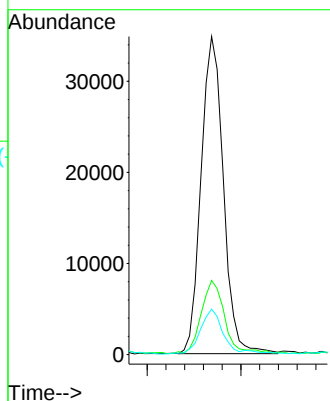
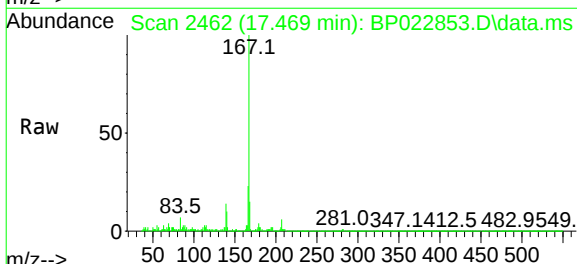
RT: 17.469 min Scan# 2462

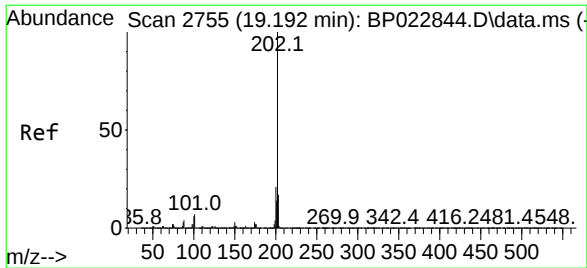
Delta R.T. -0.012 min

Lab File: BP022853.D

Acq: 05 Nov 2024 09:11

|             |             |
|-------------|-------------|
| Tgt Ion:167 | Resp: 57553 |
| Ion Ratio   | Lower Upper |
| 167 100     |             |
| 166 23.3    | 17.0 25.6   |
| 139 14.3    | 10.3 15.5   |





#80

Fluoranthene

Concen: 30.267 ng/u1

RT: 19.186 min Scan# 27

Delta R.T. -0.006 min

Lab File: BP022853.D

Acq: 05 Nov 2024 09:11

Instrument :

BNA\_P

ClientSampleId :

A4EF1

Tgt Ion:202 Resp: 1324638

Ion Ratio Lower Upper

202 100

101 6.7 5.8 8.8

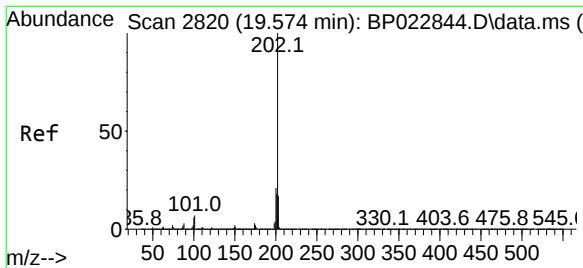
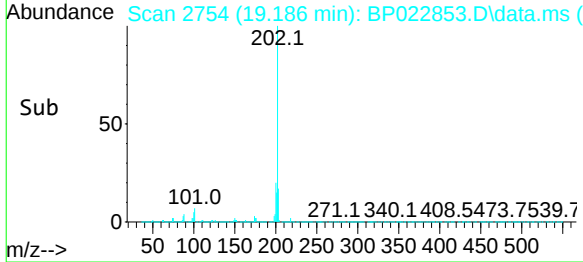
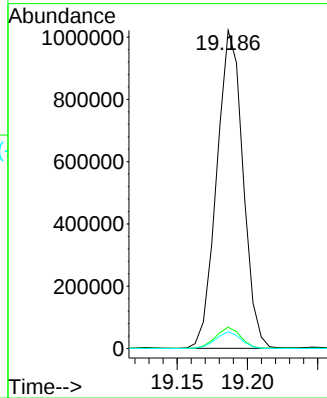
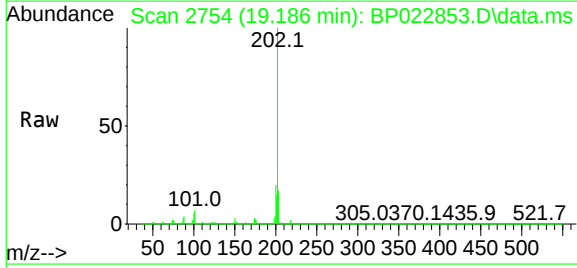
100 5.3 4.5 6.7

Manual Integrations

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Supervised By :mohammad ahmed 11/08/2024



#82

Pyrene

Concen: 15.688 ng/u1

RT: 19.569 min Scan# 2819

Delta R.T. -0.006 min

Lab File: BP022853.D

Acq: 05 Nov 2024 09:11

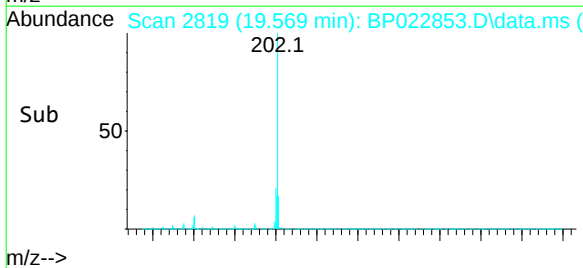
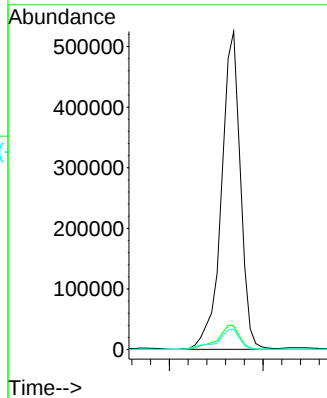
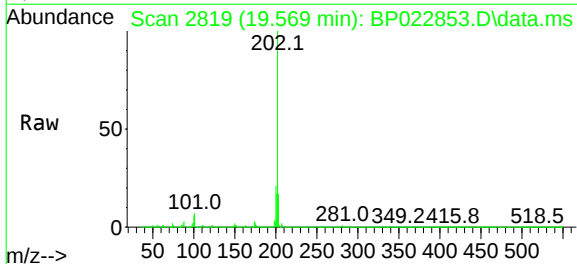
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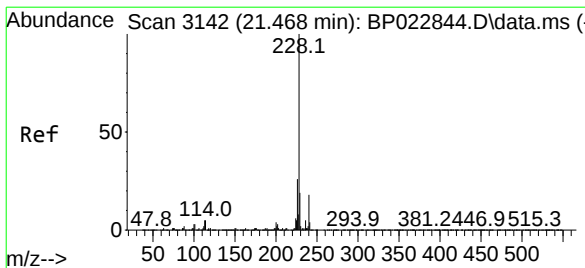
Ion Ratio Lower Upper

202 100

101 7.4 6.7 10.1

100 6.5 5.8 8.6





#85

Benzo(a)anthracene

Concen: 11.266 ng/ul

RT: 21.463 min Scan# 3142

Delta R.T. -0.012 min

Lab File: BP022853.D

Acq: 05 Nov 2024 09:11

Instrument :

BNA\_P

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A4EF1

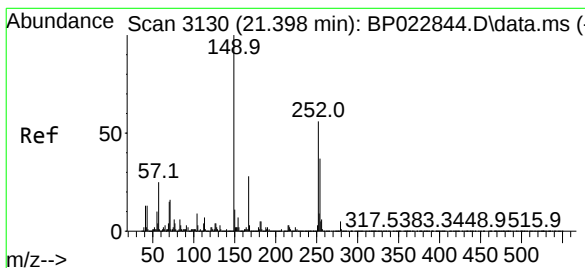
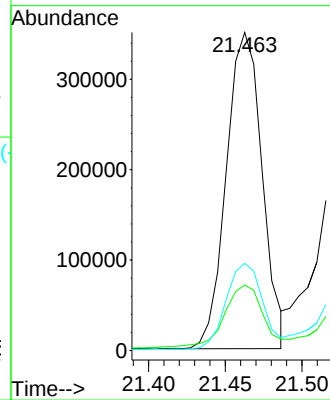
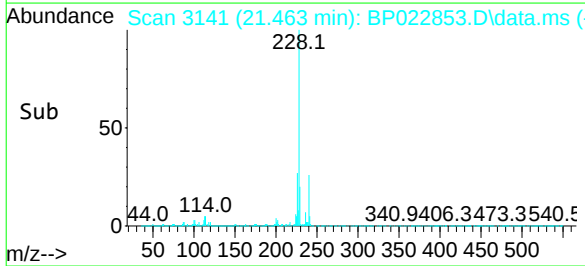
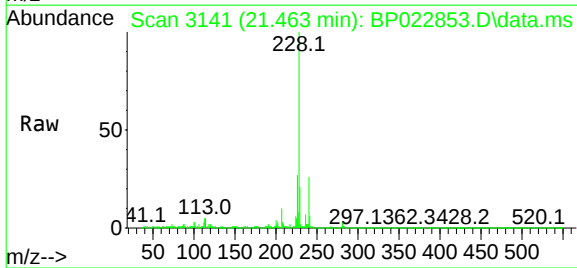
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 568549 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 20.6  | 15.4  | 23.0   |
| 226       | 27.4  | 21.5  | 32.3   |

Manual Integrations

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Reviewed By :Yogesh Patel 11/06/2024

Supervised By :mohammad ahmed 11/08/2024



#86

Bis(2-ethylhexyl)phthalate

Concen: 1.604 ng/ul

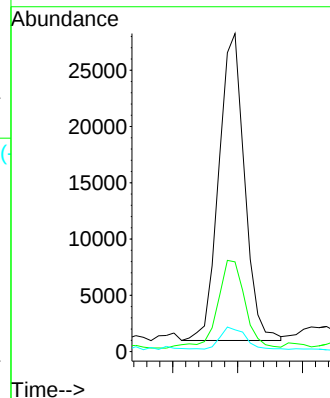
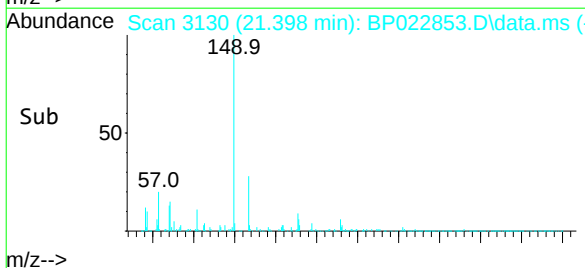
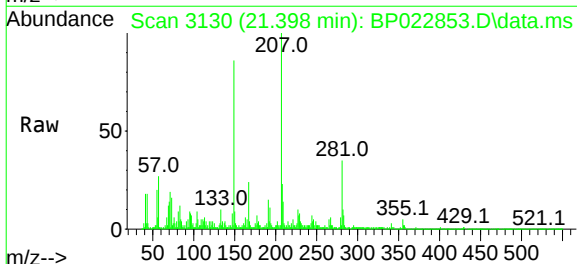
RT: 21.398 min Scan# 3130

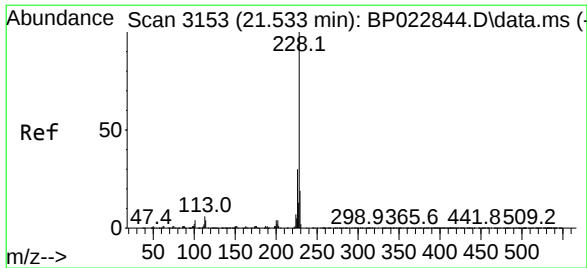
Delta R.T. -0.012 min

Lab File: BP022853.D

Acq: 05 Nov 2024 09:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 37599 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 28.2  | 23.0  | 34.4  |
| 279       | 6.8   | 4.8   | 7.2   |





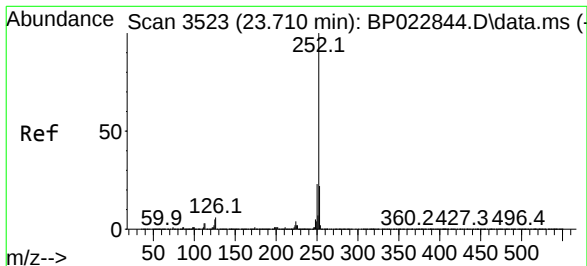
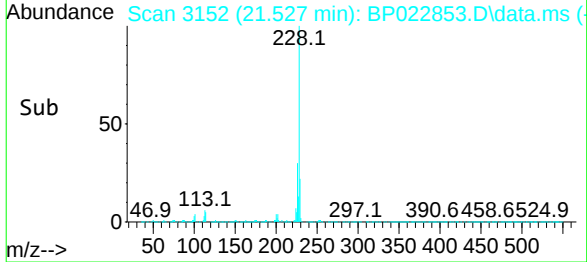
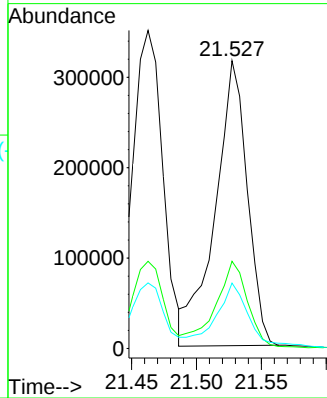
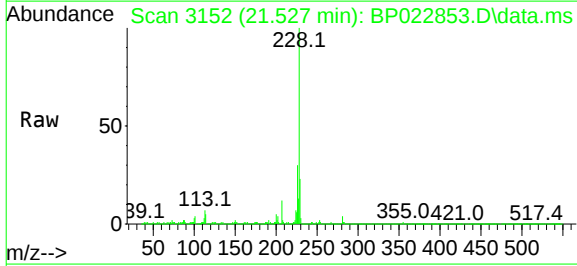
#87  
Chrysene  
Concen: 11.645 ng/u1  
RT: 21.527 min Scan# 3153  
Delta R.T. -0.024 min  
Lab File: BP022853.D  
Acq: 05 Nov 2024 09:11

Instrument :  
BNA\_P  
ClientSampleId :  
A4EF1

|             |              |
|-------------|--------------|
| Tgt Ion:228 | Resp: 544923 |
| Ion Ratio   | Lower Upper  |
| 228 100     |              |
| 226 30.3    | 23.8 35.8    |
| 229 22.7    | 15.5 23.3    |

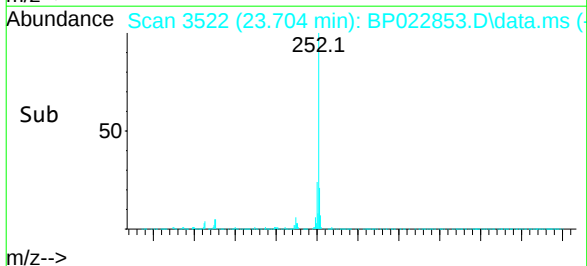
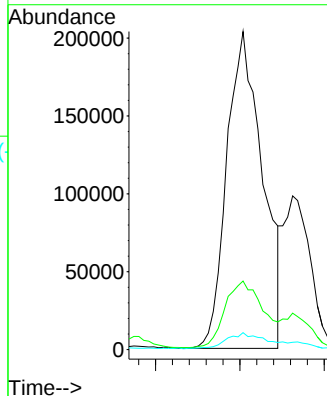
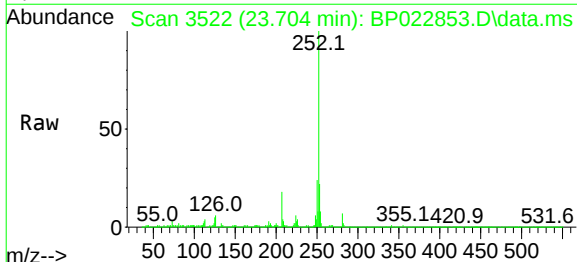
Manual Integrations  
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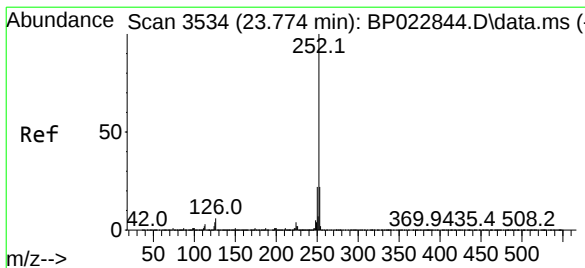
Reviewed By :Yogesh Patel 11/06/2024  
Supervised By :mohammad ahmed 11/08/2024



#90  
Benzo(b)fluoranthene  
Concen: 11.031 ng/u1  
RT: 23.704 min Scan# 3522  
Delta R.T. -0.018 min  
Lab File: BP022853.D  
Acq: 05 Nov 2024 09:11

|             |              |
|-------------|--------------|
| Tgt Ion:252 | Resp: 600058 |
| Ion Ratio   | Lower Upper  |
| 252 100     |              |
| 253 21.6    | 17.8 26.8    |
| 125 5.3     | 5.0 7.4      |





#91

Benzo(k)fluoranthene

Concen: 3.516 ng/u1

RT: 23.763 min Scan# 35

Delta R.T. -0.029 min

Lab File: BP022853.D

Acq: 05 Nov 2024 09:11

Instrument :

BNA\_P

ClientSampleId :

A4EF1

Tgt Ion:252 Resp: 187260

Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.0

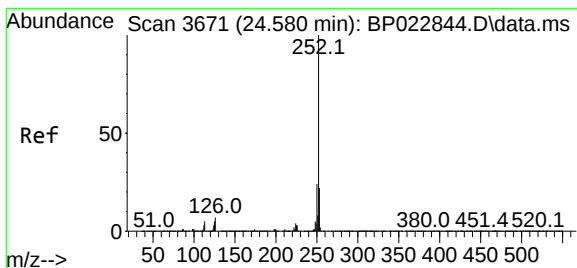
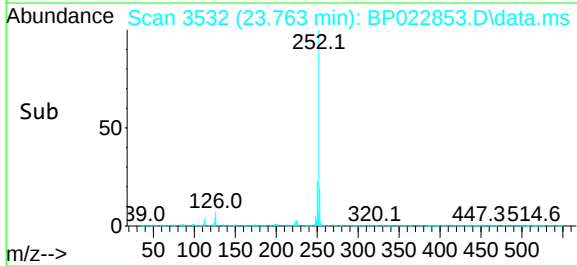
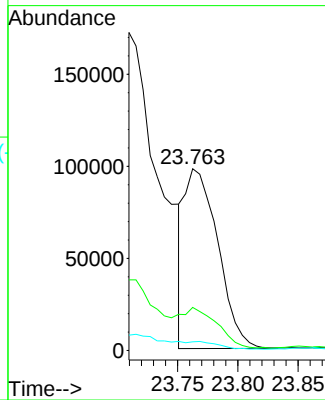
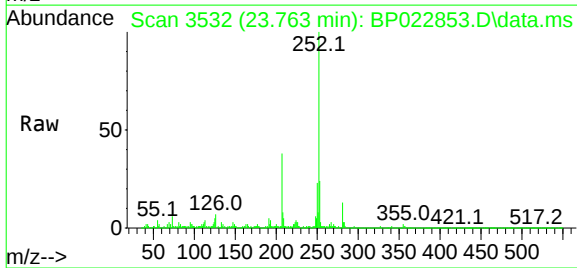
125 4.8 4.6 6.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/06/2024

Supervised By :mohammad ahmed 11/08/2024



#93

Benzo(a)pyrene

Concen: 3.394 ng/u1

RT: 24.568 min Scan# 3669

Delta R.T. -0.029 min

Lab File: BP022853.D

Acq: 05 Nov 2024 09:11

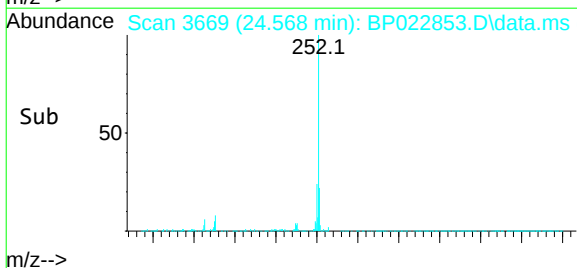
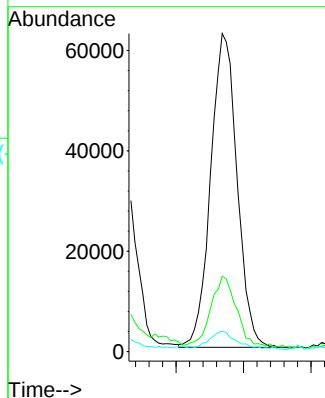
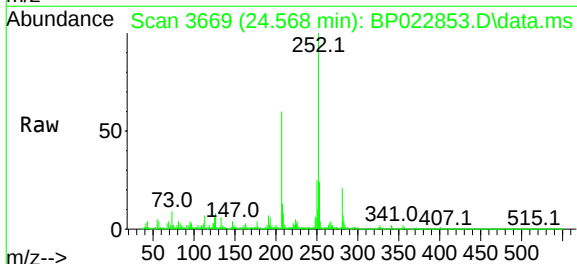
Tgt Ion:252 Resp: 169931

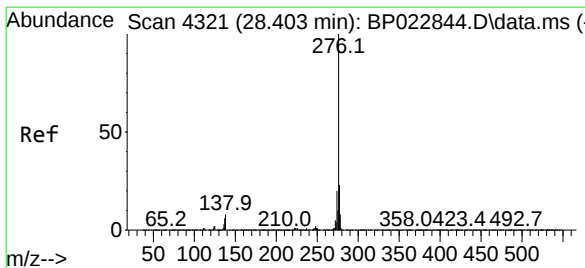
Ion Ratio Lower Upper

252 100

253 23.7 17.7 26.5

125 6.3 4.9 7.3





#94

Indeno(1,2,3-cd)pyrene

Concen: 2.423 ng/ul m

RT: 28.409 min Scan# 4321

Delta R.T. -0.029 min

Lab File: BP022853.D

Acq: 05 Nov 2024 09:11

Instrument :

BNA\_P

ClientSampleId :

A4EF1

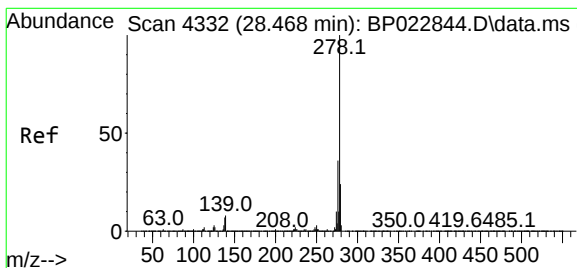
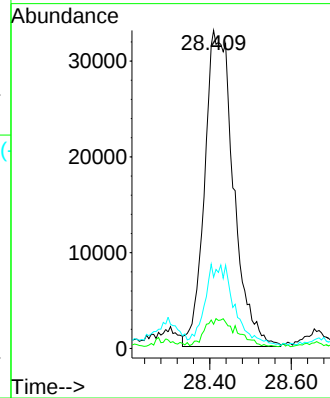
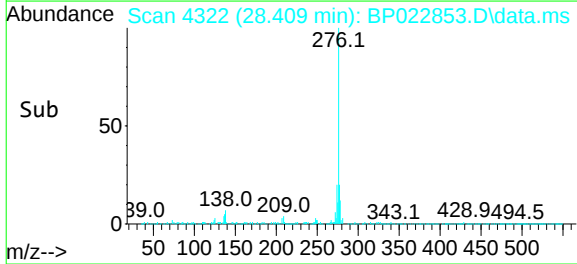
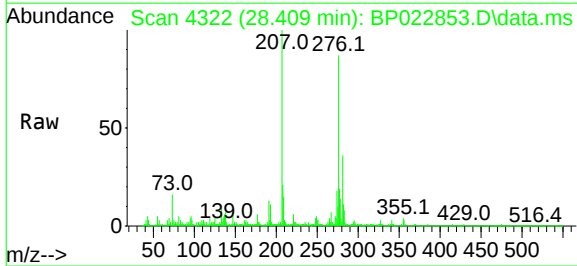
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 161864 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 7.6   | 9.1   | 13.7   |
| 277       | 22.4  | 18.6  | 27.8   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 11/06/2024

Supervised By :mohammad ahmed 11/08/2024



#95

Dibenzo(a,h)anthracene

Concen: 1.590 ng/ul m

RT: 28.462 min Scan# 4331

Delta R.T. -0.047 min

Lab File: BP022853.D

Acq: 05 Nov 2024 09:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 86005 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 8.9   | 7.3   | 10.9  |
| 279       | 25.9  | 19.0  | 28.4  |

