

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060424\  
 Data File : BM045851.D  
 Acq On : 05 Jun 2024 15:36  
 Operator : MA/JU  
 Sample : P2586-10  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4D21

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/06/2024  
 Supervised By :mohammad ahmed 06/07/2024

Quant Time: Jun 06 01:56:30 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 31 13:01:11 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.463  | 152  | 271526   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.228 | 136  | 1063996  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.104 | 164  | 575796   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 16.851 | 188  | 1018099  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.062 | 240  | 825949   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.785 | 264  | 934458   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.052  | 96   | 29321    | 4.187  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.463  | 84   | 377965   | 20.960 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.722  | 99   | 613783   | 26.609 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.828  | 67   | 420666   | 25.397 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.028  | 132  | 491683   | 28.536 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.234  | 113  | 454433   | 26.076 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.628  | 128  | 241231   | 28.998 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.339  | 143  | 260337   | 30.921 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 9.886  | 165  | 444286   | 28.140 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.416 | 131  | 306065   | 14.007 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.557 | 166  | 1187431  | 29.788 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.798 | 160  | 1360105  | 29.383 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.410 | 143  | 151372   | 17.596 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.104 | 176  | 953046   | 28.025 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.245 | 200  | 96242    | 18.512 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 16.951 | 188  | 1307684  | 29.546 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.250 | 212  | 1393082  | 27.121 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.603 | 264  | 1279538  | 29.297 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 37) 1-Methylnaphthalene       | 12.127 | 142  | 38585    | 1.027  | ng/u1# | 92       |
| 50) Acenaphthylene            | 13.827 | 152  | 60524    | 1.130  | ng/u1  | 97       |
| 72) Phenanthrene              | 16.892 | 178  | 478167   | 8.914  | ng/u1  | 100      |
| 74) Anthracene                | 16.986 | 178  | 103555   | 1.933  | ng/u1  | 99       |
| 77) Carbazole                 | 17.274 | 167  | 55495    | 1.214  | ng/u1  | 97       |
| 80) Fluoranthene              | 18.915 | 202  | 959328   | 15.406 | ng/u1  | 99       |
| 82) Pyrene                    | 19.280 | 202  | 844915   | 13.206 | ng/u1  | 99       |
| 83) Butylbenzylphthalate      | 20.209 | 149  | 27076    | 1.038  | ng/u1  | 95       |
| 85) Benzo(a)anthracene        | 21.044 | 228  | 423077   | 7.419  | ng/u1  | 96       |
| 86) Bis(2-ethylhexyl)phtha... | 20.997 | 149  | 470562   | 12.147 | ng/u1  | 99       |
| 87) Chrysene                  | 21.103 | 228  | 498574   | 9.450  | ng/u1  | 96       |
| 90) Benzo(b)fluoranthene      | 22.933 | 252  | 624118   | 10.868 | ng/u1  | 99       |
| 91) Benzo(k)fluoranthene      | 22.986 | 252  | 199698m  | 3.560  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 23.656 | 252  | 396610   | 7.859  | ng/u1  | 96       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.785 | 276  | 282185   | 5.121  | ng/u1  | 96       |
| 95) Dibenzo(a,h)anthracene    | 26.821 | 278  | 77160    | 1.770  | ng/u1# | 86       |
| 96) Benzo(g,h,i)perylene      | 27.721 | 276  | 281913   | 5.808  | ng/u1  | 99       |
| -----                         |        |      |          |        |        |          |

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

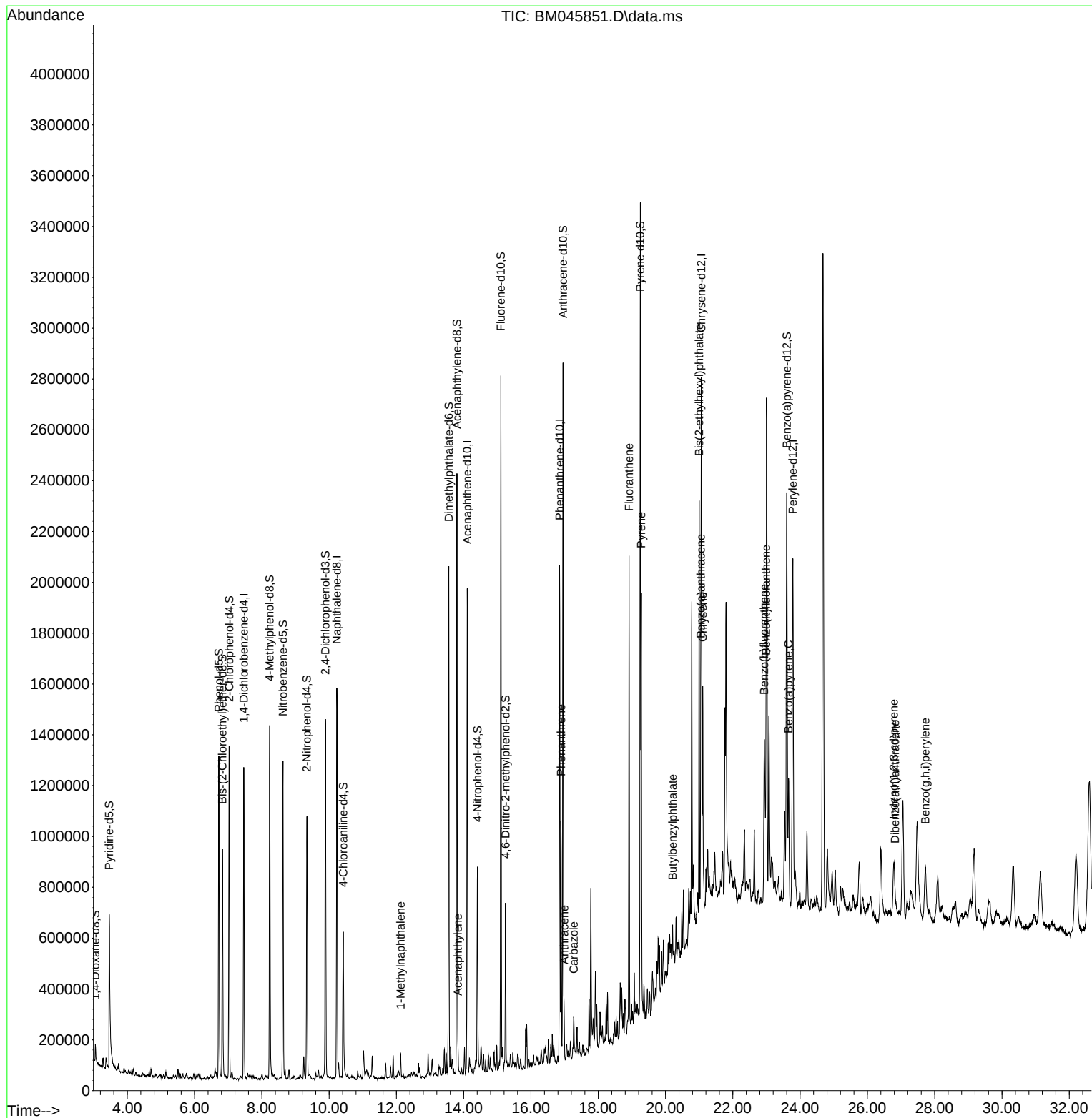
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM060424\  
 Data File : BM045851.D  
 Acq On : 05 Jun 2024 15:36  
 Operator : MA/JU  
 Sample : P2586-10  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

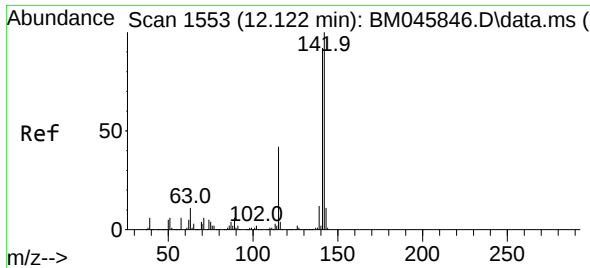
Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4D21

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 06/06/2024  
 Supervised By :mohammad ahmed 06/07/2024

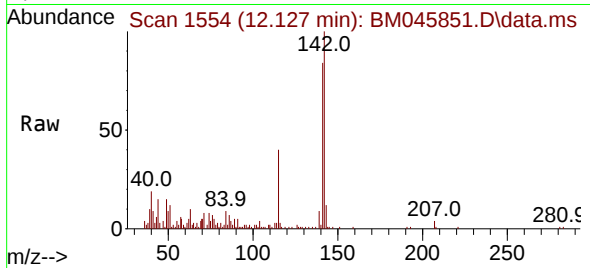
Quant Time: Jun 06 01:56:30 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM053124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 31 13:01:11 2024  
 Response via : Initial Calibration





#37  
1-Methylnaphthalene  
Concen: 1.027 ng/ul  
RT: 12.127 min Scan# 1553  
Delta R.T. -0.000 min  
Lab File: BM045851.D  
Acq: 05 Jun 2024 15:36

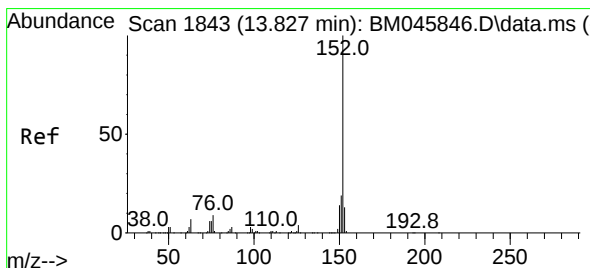
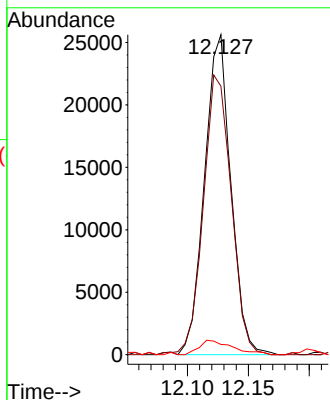
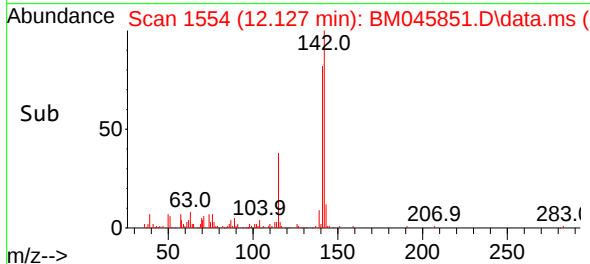
Instrument :  
BNA\_M  
ClientSampleId :  
A4D21



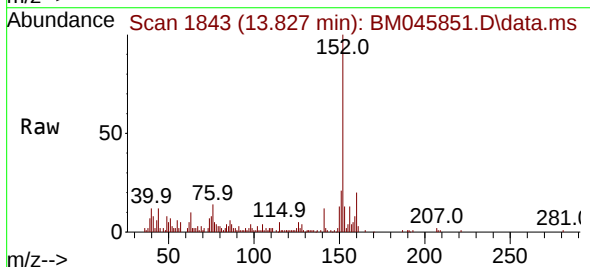
Tgt Ion:142 Resp: 3858  
Ion Ratio Lower Upper  
142 100  
141 83.9 73.5 110.3  
116 3.2 3.3 4.9

Manual Integrations  
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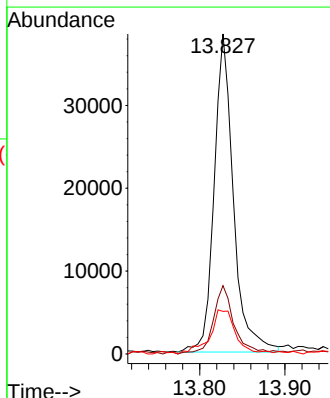
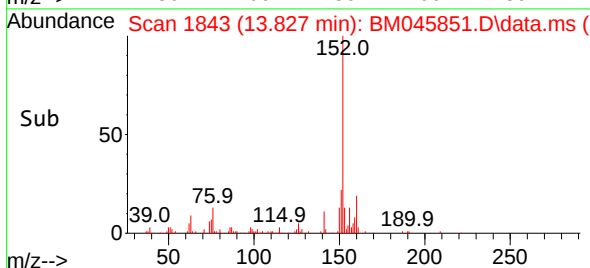
Reviewed By :Jagrut Upadhyay 06/06/2024  
Supervised By :mohammad ahmed 06/07/2024

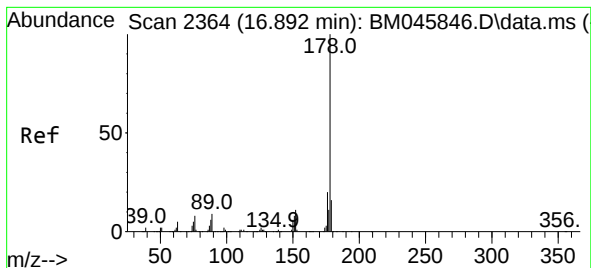


#50  
Acenaphthylene  
Concen: 1.130 ng/ul  
RT: 13.827 min Scan# 1843  
Delta R.T. -0.006 min  
Lab File: BM045851.D  
Acq: 05 Jun 2024 15:36



Tgt Ion:152 Resp: 60524  
Ion Ratio Lower Upper  
152 100  
151 21.4 15.6 23.4  
153 13.3 10.4 15.6





#72

Phenanthrene

Concen: 8.914 ng/ul

RT: 16.892 min Scan# 2364

Delta R.T. -0.006 min

Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

Instrument :

BNA\_M

ClientSampleId :

A4D21

Tgt Ion:178 Resp: 47816

Ion Ratio Lower Upper

178 100

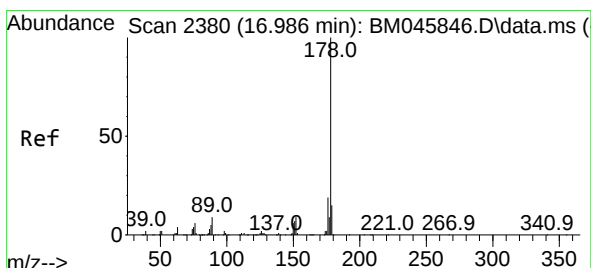
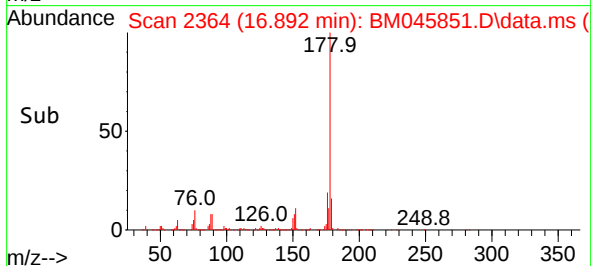
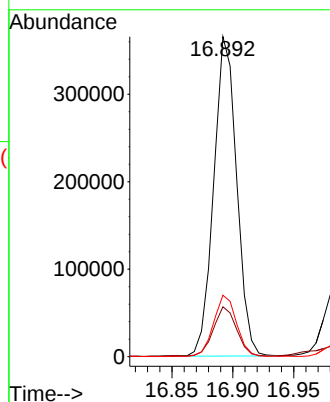
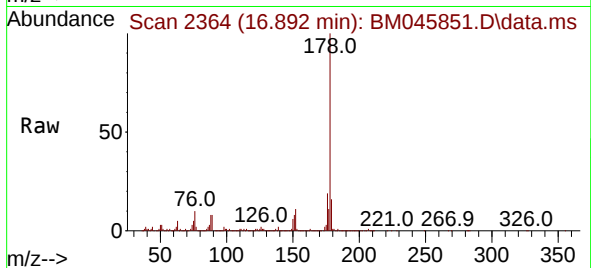
179 15.6 12.4 18.6

176 19.2 15.3 22.9

Manual Integrations

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#74

Anthracene

Concen: 1.933 ng/ul

RT: 16.986 min Scan# 2380

Delta R.T. -0.006 min

Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

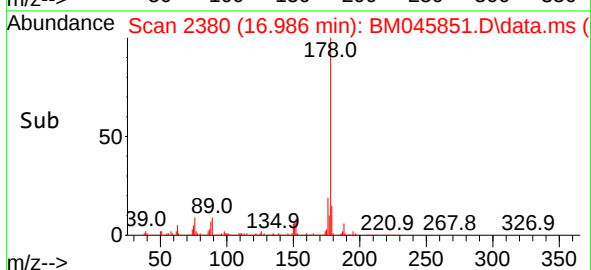
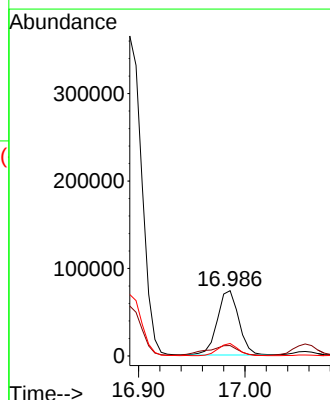
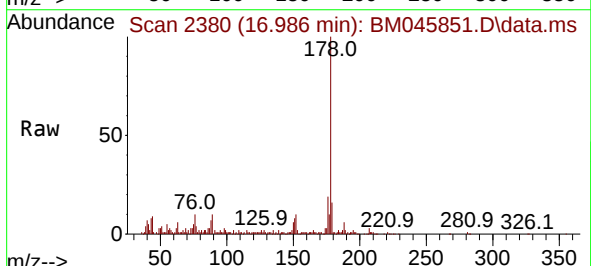
Tgt Ion:178 Resp: 103555

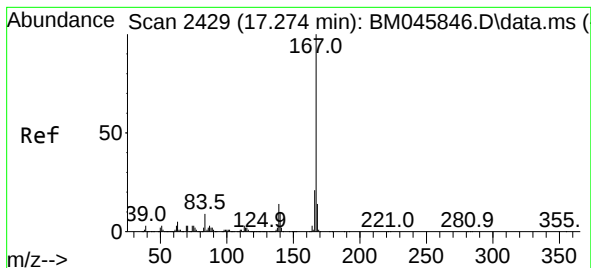
Ion Ratio Lower Upper

178 100

179 15.9 12.0 18.0

176 19.2 15.0 22.6





#77

Carbazole

Concen: 1.214 ng/ul

RT: 17.274 min Scan# 2429

Delta R.T. -0.006 min

Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

Instrument :

BNA\_M

ClientSampleId :

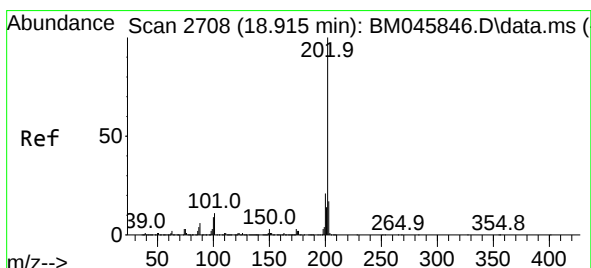
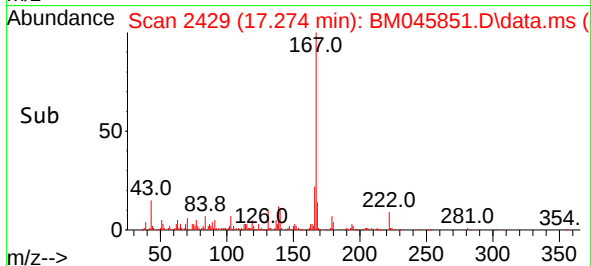
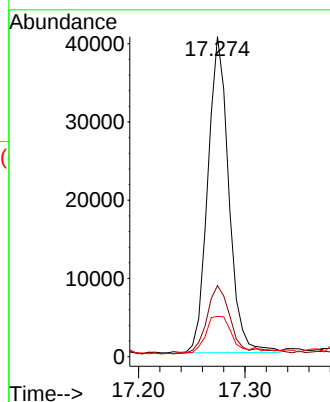
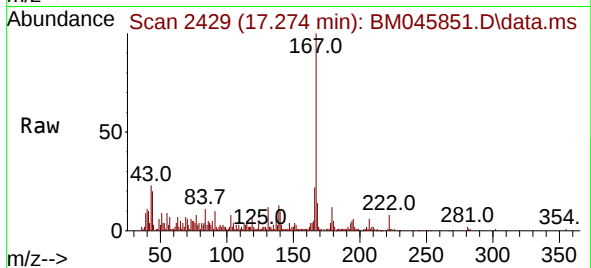
A4D21

|             |             |
|-------------|-------------|
| Tgt Ion:167 | Resp: 55498 |
| Ion Ratio   | Lower Upper |
| 167 100     |             |
| 166 22.2    | 16.6 24.8   |
| 139 12.6    | 10.6 16.0   |

Manual Integrations

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#80

Fluoranthene

Concen: 15.406 ng/ul

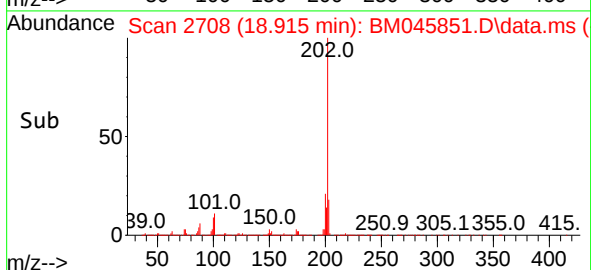
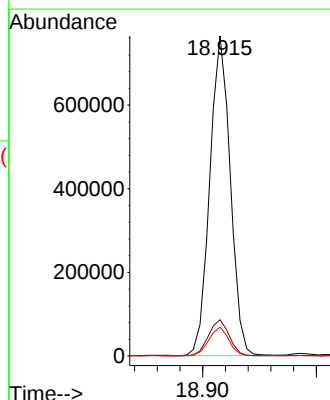
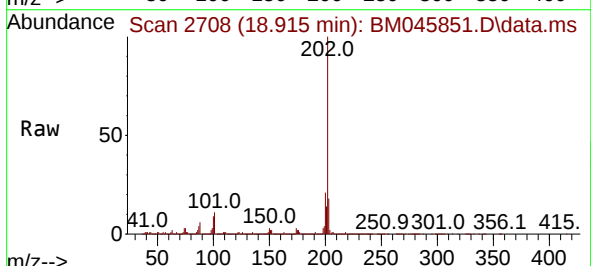
RT: 18.915 min Scan# 2708

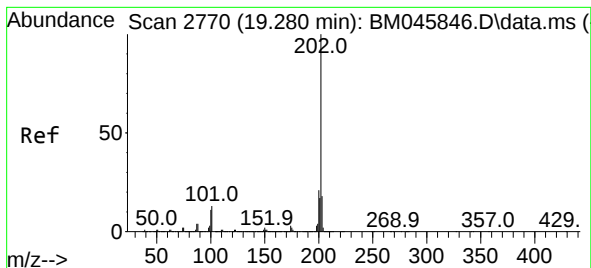
Delta R.T. -0.006 min

Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

|             |              |
|-------------|--------------|
| Tgt Ion:202 | Resp: 959328 |
| Ion Ratio   | Lower Upper  |
| 202 100     |              |
| 101 11.4    | 8.9 13.3     |
| 100 9.0     | 6.6 10.0     |





#82

Pyrene

Concen: 13.206 ng/ul

RT: 19.280 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

Instrument :

BNA\_M

ClientSampleId :

A4D21

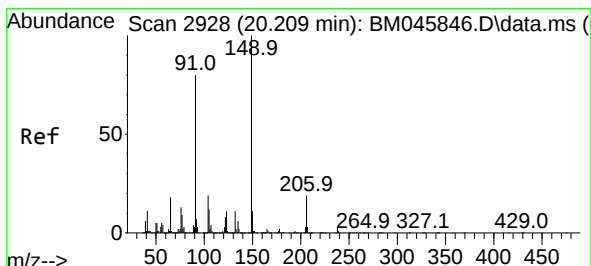
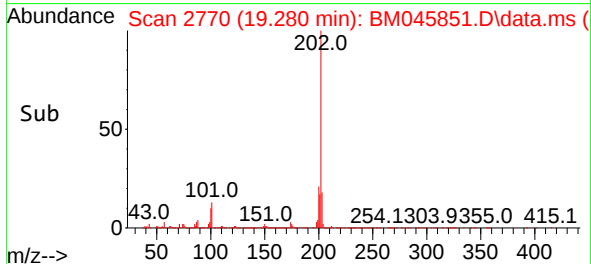
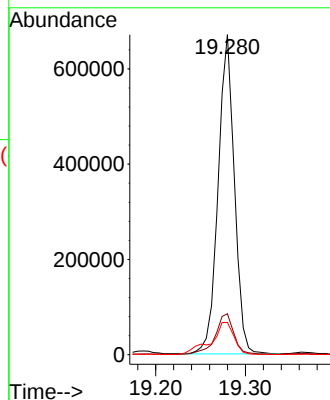
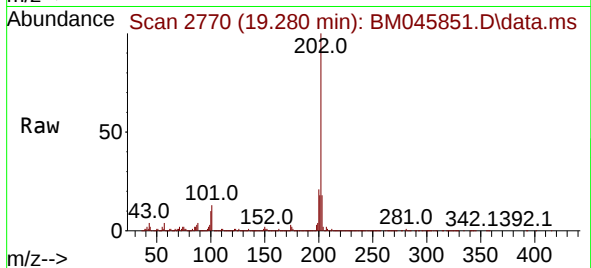
Tgt Ion:202 Resp: 844915

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 12.8  | 10.5  | 15.7  |
| 100 | 10.1  | 8.6   | 12.8  |

Manual Integrations

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#83

Butylbenzylphthalate

Concen: 1.038 ng/ul

RT: 20.209 min Scan# 2928

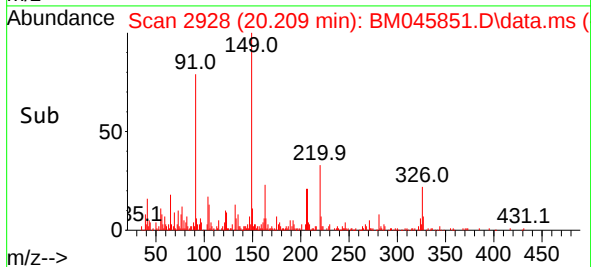
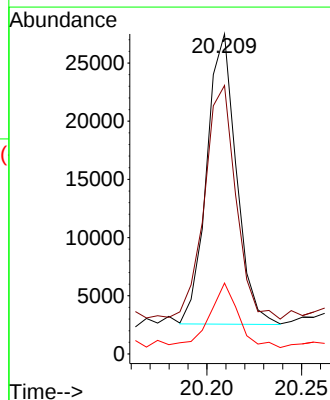
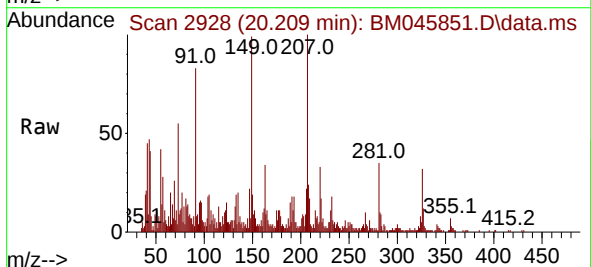
Delta R.T. -0.006 min

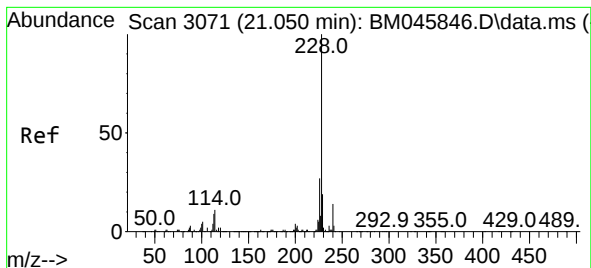
Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

Tgt Ion:149 Resp: 27076

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 91  | 83.9  | 63.7  | 95.5  |
| 206 | 22.1  | 15.9  | 23.9  |





#85

Benzo(a)anthracene

Concen: 7.419 ng/ul

RT: 21.044 min Scan# 3071

Delta R.T. -0.006 min

Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

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ClientSampleId :

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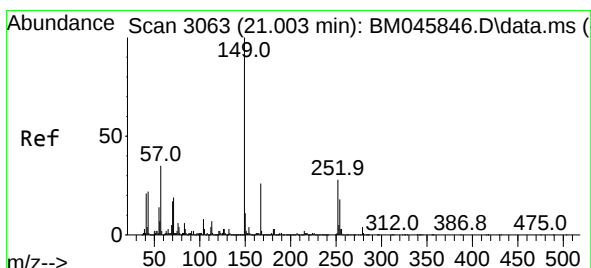
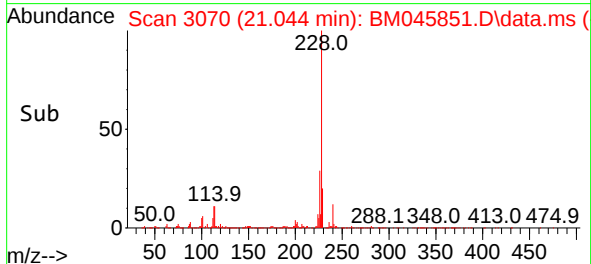
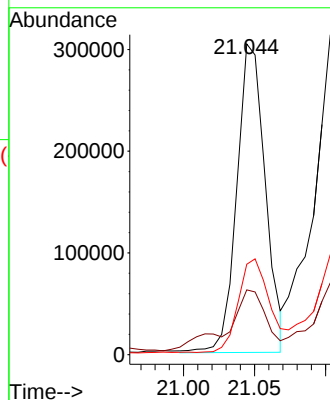
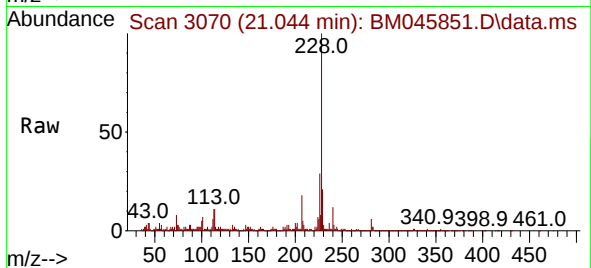
Tgt Ion:228 Resp: 423071

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 229 | 20.8  | 15.8  | 23.8  |
| 226 | 29.1  | 21.4  | 32.0  |

Manual Integrations

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Supervised By :mohammad ahmed 06/07/2024



#86

Bis(2-ethylhexyl)phthalate

Concen: 12.147 ng/ul

RT: 20.997 min Scan# 3062

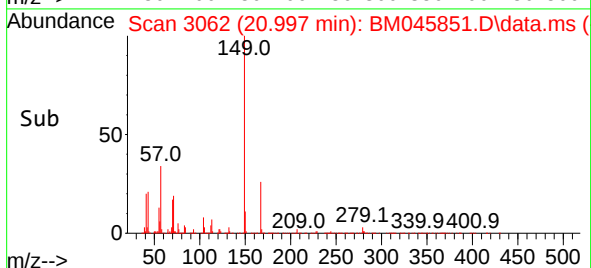
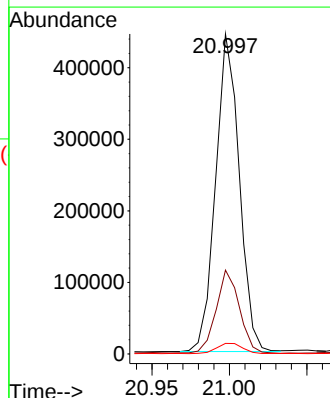
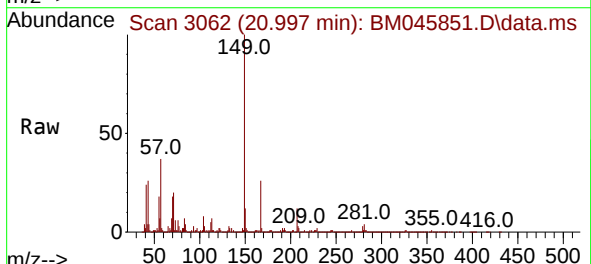
Delta R.T. -0.012 min

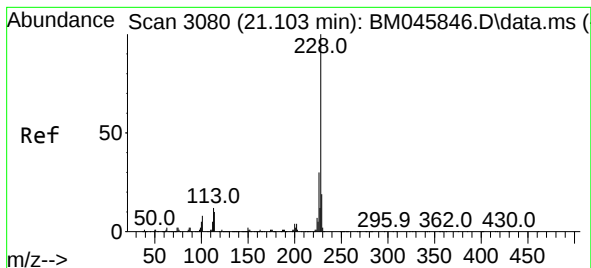
Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

Tgt Ion:149 Resp: 470562

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 26.2  | 20.4  | 30.6  |
| 279 | 3.3   | 3.1   | 4.7   |





#87

Chrysene

Concen: 9.450 ng/ul

RT: 21.103 min Scan# 3080

Delta R.T. -0.006 min

Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

Instrument :

BNA\_M

ClientSampleId :

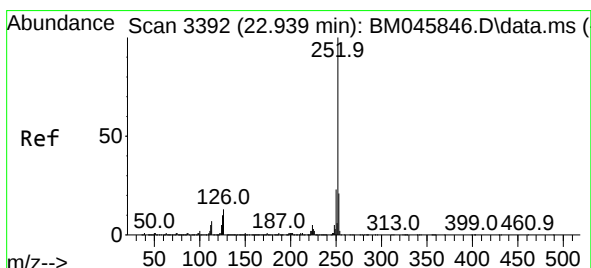
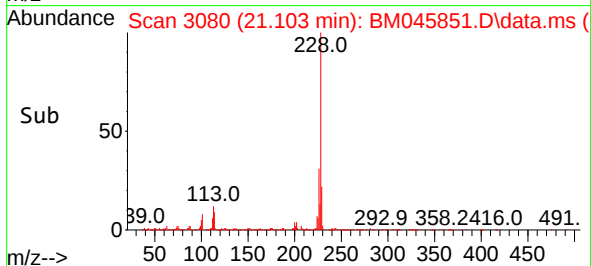
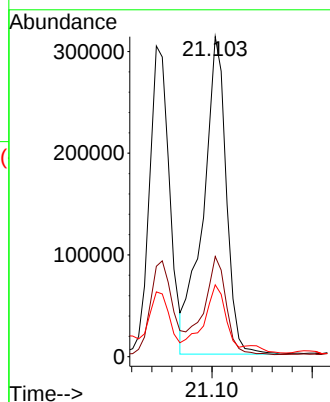
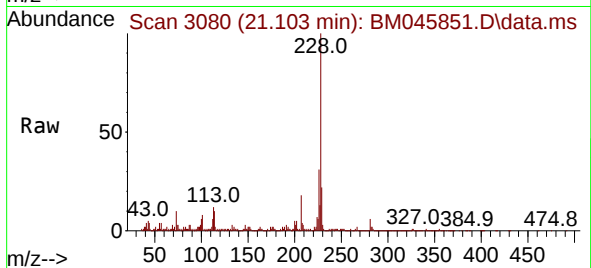
A4D21

|             |              |
|-------------|--------------|
| Tgt Ion:228 | Resp: 498574 |
| Ion Ratio   | Lower Upper  |
| 228 100     |              |
| 226 31.3    | 24.2 36.2    |
| 229 22.4    | 15.2 22.8    |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/06/2024  
Supervised By :mohammad ahmed 06/07/2024



#90

Benzo(b)fluoranthene

Concen: 10.868 ng/ul

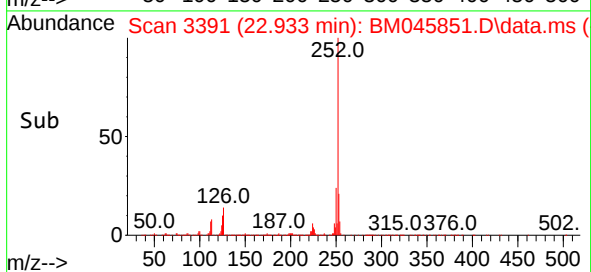
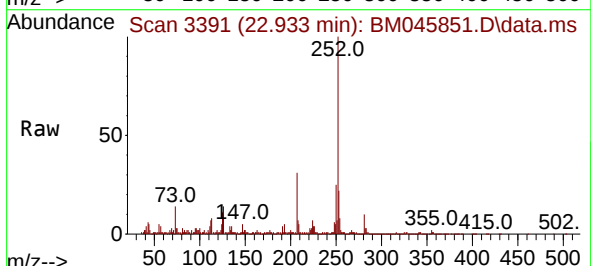
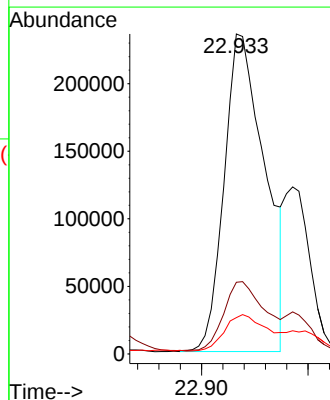
RT: 22.933 min Scan# 3391

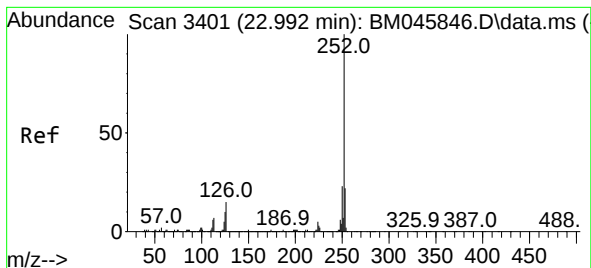
Delta R.T. -0.006 min

Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

|             |              |
|-------------|--------------|
| Tgt Ion:252 | Resp: 624118 |
| Ion Ratio   | Lower Upper  |
| 252 100     |              |
| 253 22.4    | 17.8 26.6    |
| 125 11.4    | 8.4 12.6     |





#91

Benzo(k)fluoranthene

Concen: 3.560 ng/ul m

RT: 22.986 min Scan# 3401

Delta R.T. -0.012 min

Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

Instrument :

BNA\_M

ClientSampleId :

A4D21

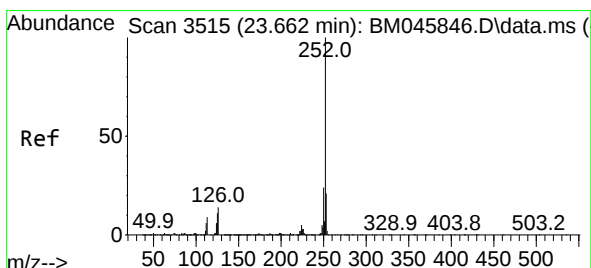
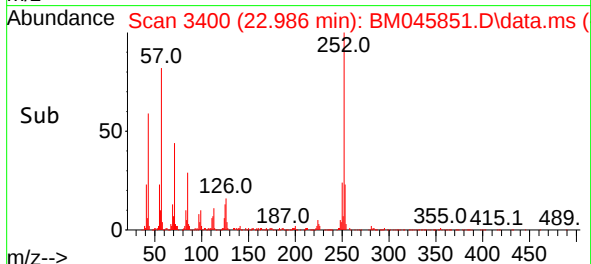
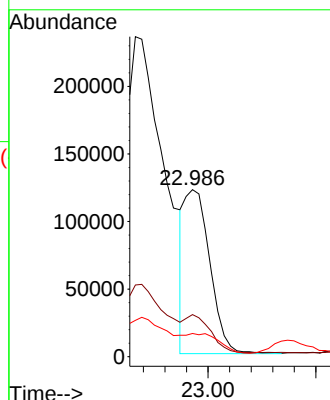
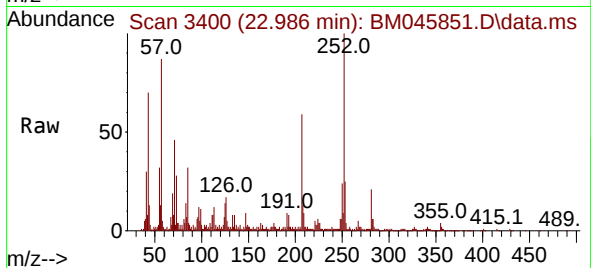
Tgt Ion:252 Resp: 199698

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.2  | 16.8  | 25.2  |
| 125 | 13.9  | 8.2   | 12.4  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/06/2024  
Supervised By :mohammad ahmed 06/07/2024



#93

Benzo(a)pyrene

Concen: 7.859 ng/ul

RT: 23.656 min Scan# 3514

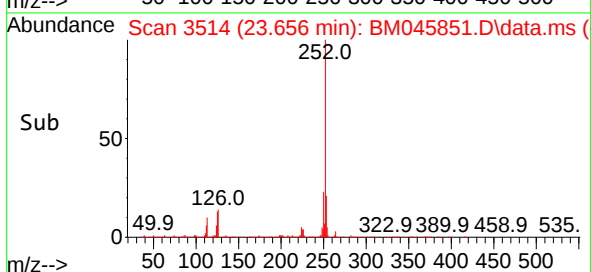
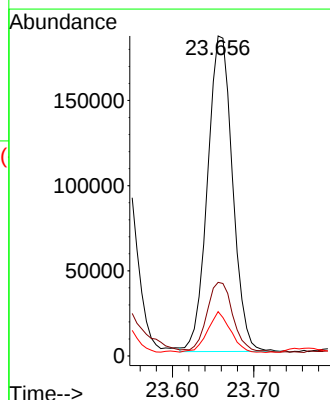
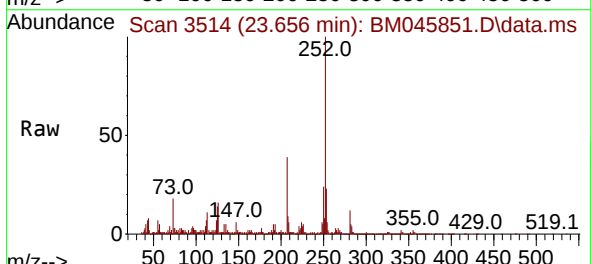
Delta R.T. -0.006 min

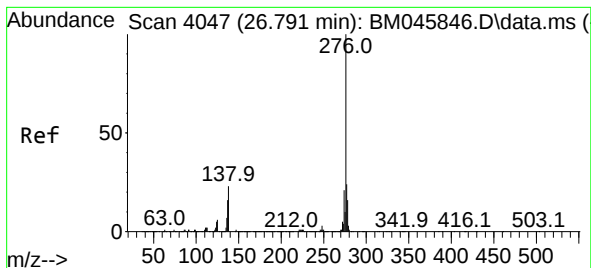
Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

Tgt Ion:252 Resp: 396610

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.0  | 17.5  | 26.3  |
| 125 | 13.8  | 9.3   | 13.9  |





#94

Indeno(1,2,3-cd)pyrene

Concen: 5.121 ng/ul

RT: 26.785 min Scan# 4046

Delta R.T. -0.006 min

Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

Instrument :

BNA\_M

ClientSampleId :

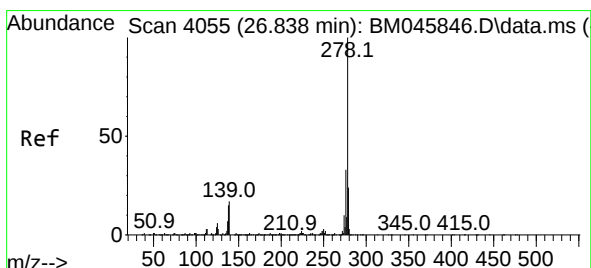
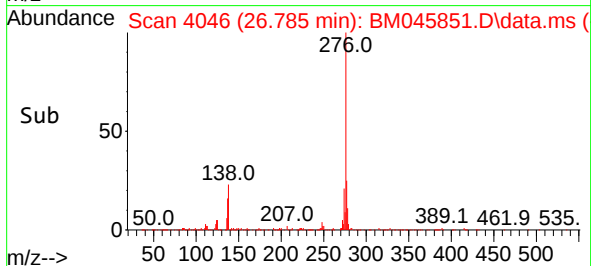
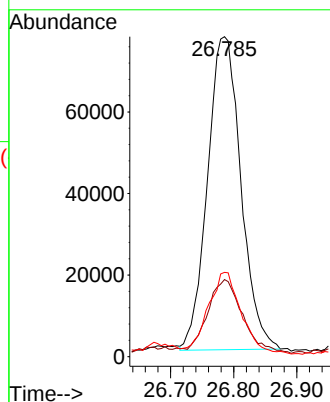
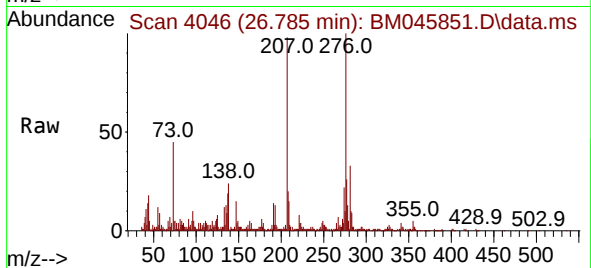
A4D21

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 28218 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 24.1  | 17.9  | 26.9  |
| 277       | 26.3  | 19.0  | 28.6  |

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/06/2024  
Supervised By :mohammad ahmed 06/07/2024



#95

Dibenzo(a,h)anthracene

Concen: 1.770 ng/ul

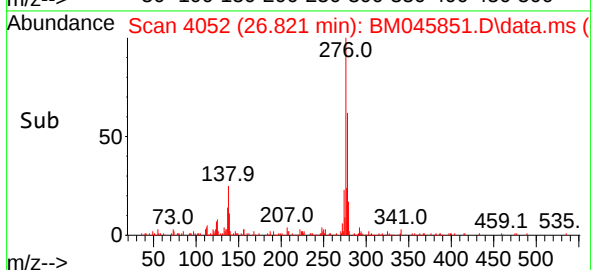
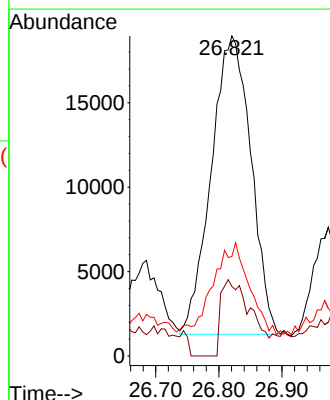
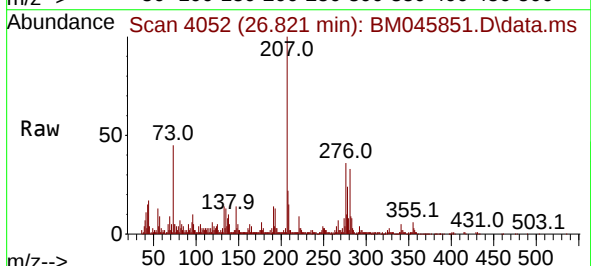
RT: 26.821 min Scan# 4052

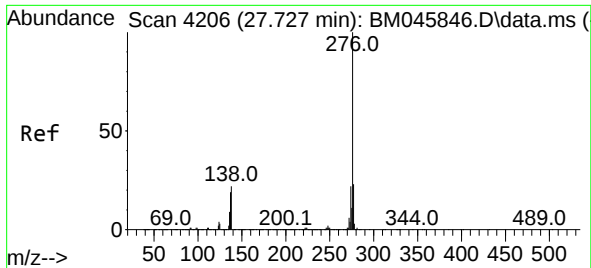
Delta R.T. -0.018 min

Lab File: BM045851.D

Acq: 05 Jun 2024 15:36

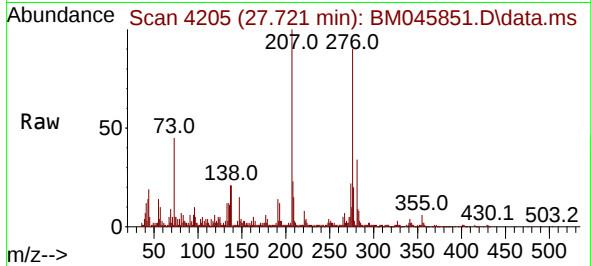
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 77160 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 21.7  | 13.2  | 19.8# |
| 279       | 31.0  | 19.1  | 28.7# |





#96  
 Benzo(g,h,i)perylene  
 Concen: 5.808 ng/ul  
 RT: 27.721 min Scan# 41  
 Delta R.T. -0.006 min  
 Lab File: BM045851.D  
 Acq: 05 Jun 2024 15:36

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4D21



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 28191 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 23.9  | 18.6  | 27.8  |
| 277       | 22.8  | 18.7  | 28.1  |

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/06/2024  
 Supervised By :mohammad ahmed 06/07/2024

