

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP022924\  
 Data File : BP019938.D  
 Acq On : 29 Feb 2024 15:43  
 Operator : MA/JU  
 Sample : P1602-10DL 5X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 WC-4DL

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 03/01/2024  
 Supervised By :mohammad ahmed 03/02/2024

Quant Time: Feb 29 16:22:15 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP022624.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 29 12:18:35 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|--------|--------|----------|
| -----                       |        |      |          |        |        |          |
| Internal Standards          |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.893  | 152  | 69299    | 20.000 | ng     | -0.02    |
| 21) Naphthalene-d8          | 10.699 | 136  | 262966   | 20.000 | ng     | -0.02    |
| 39) Acenaphthene-d10        | 14.540 | 164  | 184472   | 20.000 | ng     | -0.02    |
| 64) Phenanthrene-d10        | 17.304 | 188  | 426959   | 20.000 | ng     | -0.02    |
| 76) Chrysene-d12            | 21.410 | 240  | 453129   | 20.000 | ng     | -0.02    |
| 86) Perylene-d12            | 23.839 | 264  | 489035   | 20.000 | ng     | -0.03    |
|                             |        |      |          |        |        |          |
| System Monitoring Compounds |        |      |          |        |        |          |
| 5) 2-Fluorophenol           | 5.469  | 112  | 74872    | 17.734 | ng     | -0.01    |
| 7) Phenol-d6                | 7.069  | 99   | 98623    | 15.689 | ng     | -0.02    |
| 23) Nitrobenzene-d5         | 9.069  | 82   | 68391    | 10.500 | ng     | -0.02    |
| 42) 2,4,6-Tribromophenol    | 16.039 | 330  | 59666    | 18.863 | ng     | -0.02    |
| 45) 2-Fluorobiphenyl        | 13.163 | 172  | 152276   | 11.153 | ng     | -0.02    |
| 79) Terphenyl-d14           | 19.875 | 244  | 287573   | 10.003 | ng     | -0.02    |
|                             |        |      |          |        |        |          |
| Target Compounds            |        |      |          |        | Qvalue |          |
| 49) Acenaphthylene          | 14.263 | 152  | 126812   | 7.635  | ng     | 98       |
| 71) Phenanthrene            | 17.345 | 178  | 427746   | 18.769 | ng     | 100      |
| 72) Anthracene              | 17.439 | 178  | 109297   | 4.698  | ng     | 98       |
| 75) Fluoranthene            | 19.322 | 202  | 793155   | 26.817 | ng     | 100      |
| 78) Pyrene                  | 19.675 | 202  | 895371   | 28.760 | ng     | 100      |
| 81) Benzo(a)anthracene      | 21.392 | 228  | 427737   | 13.298 | ng     | 96       |
| 83) Chrysene                | 21.451 | 228  | 454956   | 15.095 | ng     | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 26.386 | 276  | 235046   | 6.827  | ng     | 97       |
| 88) Benzo(b)fluoranthene    | 23.104 | 252  | 501691   | 16.733 | ng     | 98       |
| 89) Benzo(k)fluoranthene    | 23.145 | 252  | 174035m  | 5.919  | ng     |          |
| 90) Benzo(a)pyrene          | 23.733 | 252  | 384415   | 13.416 | ng     | 98       |
| 91) Dibenzo(a,h)anthracene  | 26.404 | 278  | 64371    | 2.224  | ng     | # 86     |
| 92) Benzo(g,h,i)perylene    | 27.168 | 276  | 229164   | 8.202  | ng     | 97       |
| -----                       |        |      |          |        |        |          |

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

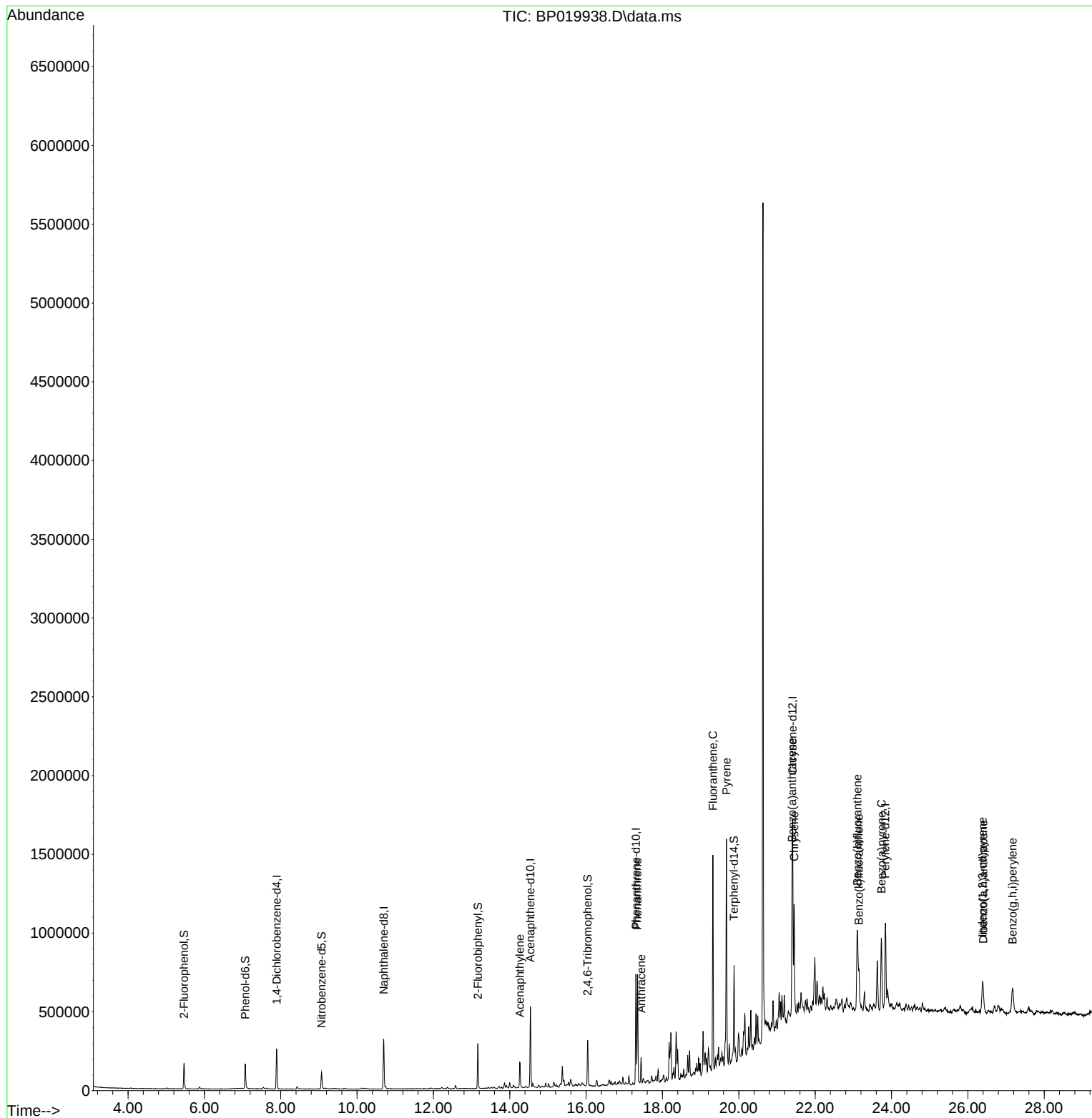
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP022924\  
Data File : BP019938.D  
Acq On : 29 Feb 2024 15:43  
Operator : MA/JU  
Sample : P1602-10DL 5X  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

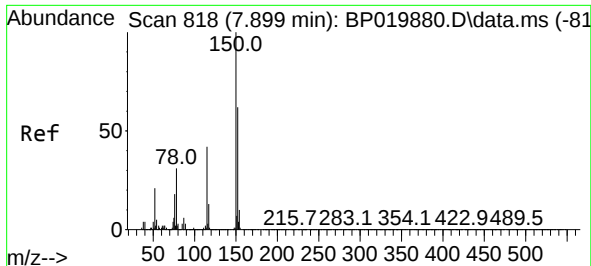
Instrument :  
BNA\_P  
ClientSampleId :  
WC-4DL

Quant Time: Feb 29 16:22:15 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP022624.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Feb 29 12:18:35 2024  
Response via : Initial Calibration

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Supervised By :mohammad ahmed 03/02/2024





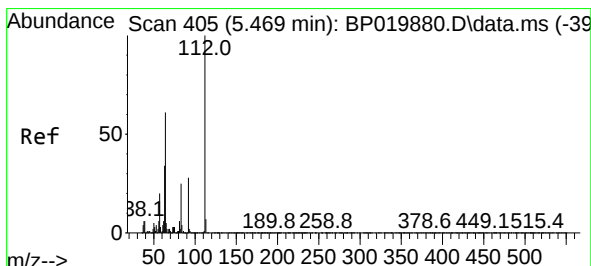
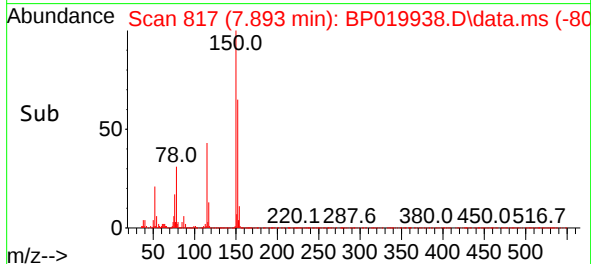
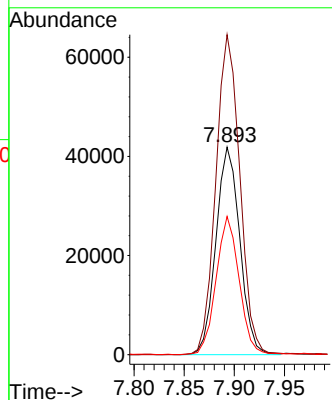
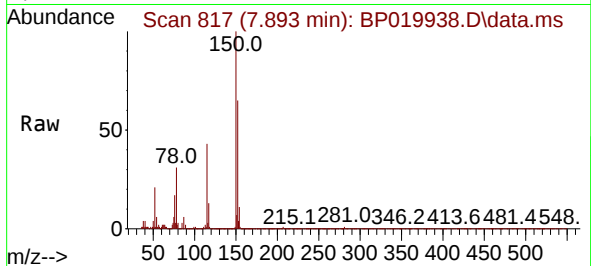
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.893 min Scan# 818  
Delta R.T. -0.017 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

Instrument :  
BNA\_P  
ClientSampleId :  
WC-4DL

Tgt Ion:152 Resp: 69299  
Ion Ratio Lower Upper  
152 100  
150 154.2 128.6 192.8  
115 66.6 53.4 80.2

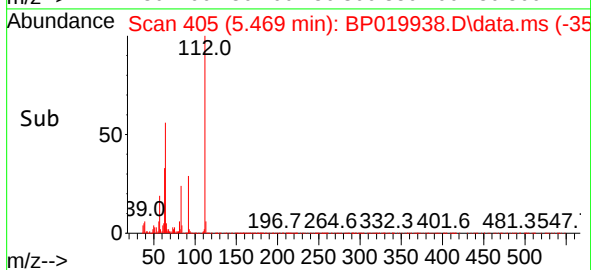
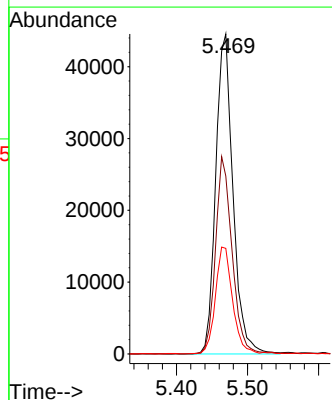
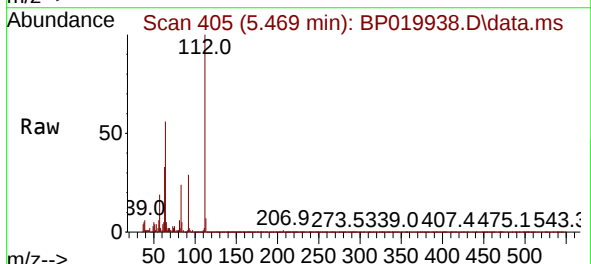
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Supervised By :mohammad ahmed 03/02/2024



#5  
2-Fluorophenol  
Concen: 17.734 ng  
RT: 5.469 min Scan# 405  
Delta R.T. -0.012 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

Tgt Ion:112 Resp: 74872  
Ion Ratio Lower Upper  
112 100  
64 55.6 49.0 73.6  
63 33.0 27.6 41.4





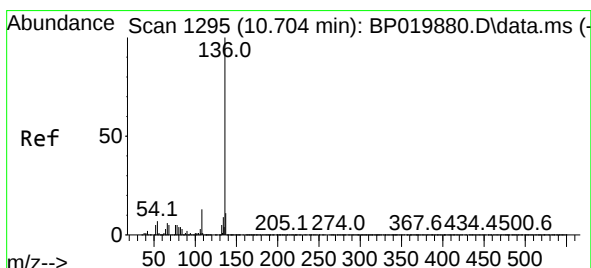
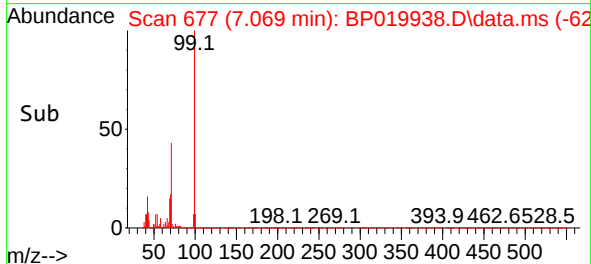
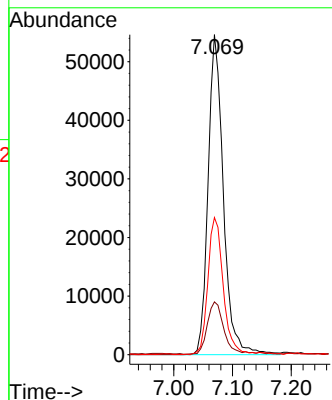
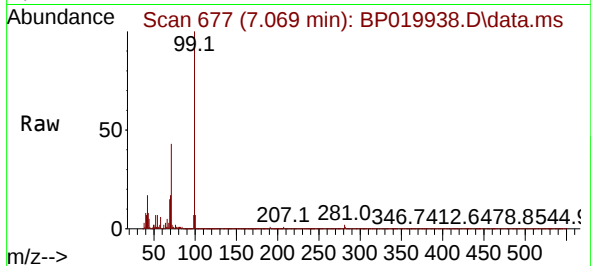
#7  
Phenol-d6  
Concen: 15.689 ng  
RT: 7.069 min Scan# 61  
Delta R.T. -0.018 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

Instrument :  
BNA\_P  
ClientSampleId :  
WC-4DL

|             |             |
|-------------|-------------|
| Tgt Ion: 99 | Resp: 9862  |
| Ion Ratio   | Lower Upper |
| 99 100      |             |
| 42 16.5     | 13.8 20.8   |
| 71 42.8     | 34.5 51.7   |

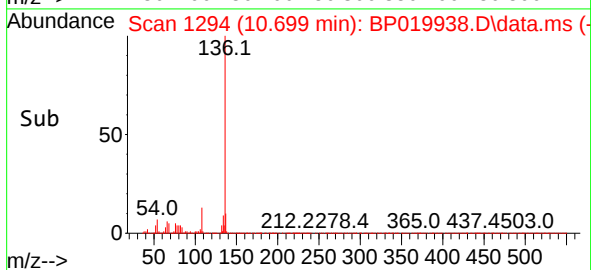
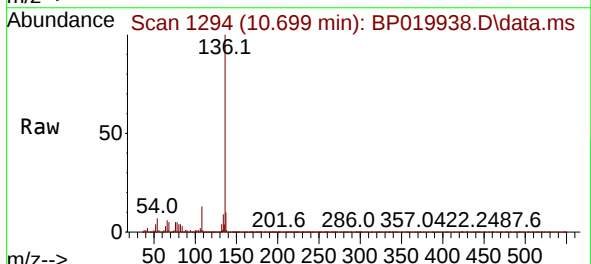
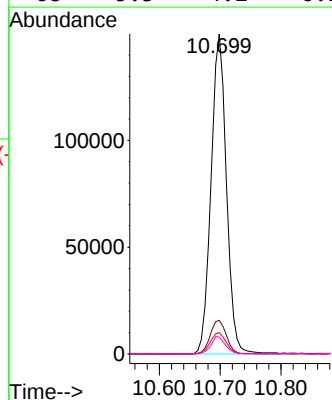
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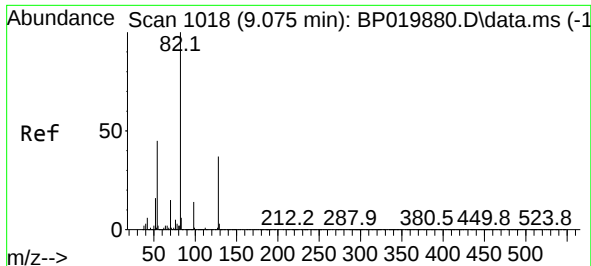
Reviewed By :Jagrut Upadhyay 03/01/2024  
Supervised By :mohammad ahmed 03/02/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.699 min Scan# 1294  
Delta R.T. -0.018 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

|             |              |
|-------------|--------------|
| Tgt Ion:136 | Resp: 262966 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 10.5    | 8.7 13.1     |
| 54 6.7      | 6.0 9.0      |
| 68 5.3      | 4.2 6.2      |





#23

Nitrobenzene-d5

Concen: 10.500 ng

RT: 9.069 min Scan# 1018

Delta R.T. -0.018 min

Lab File: BP019938.D

Acq: 29 Feb 2024 15:43

Instrument :

BNA\_P

ClientSampleId :

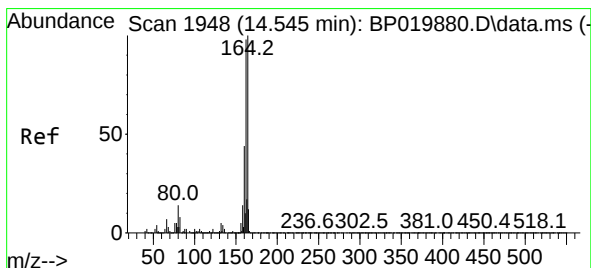
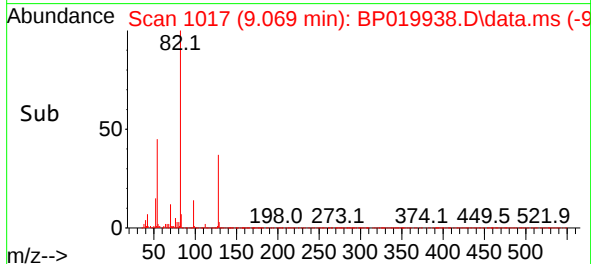
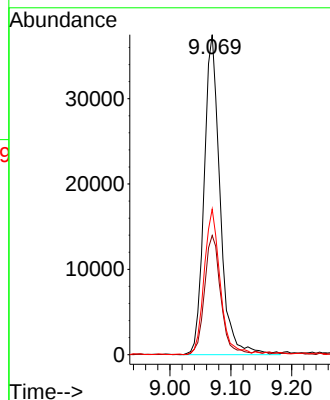
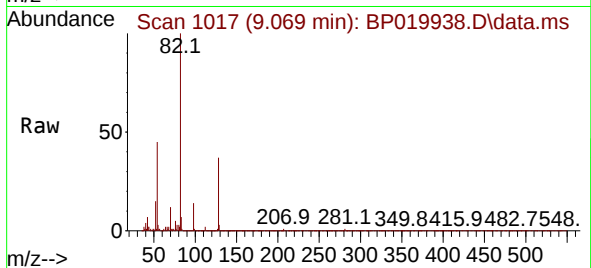
WC-4DL

|             |             |
|-------------|-------------|
| Tgt Ion: 82 | Resp: 6839  |
| Ion Ratio   | Lower Upper |
| 82 100      |             |
| 128 37.2    | 29.6 44.4   |
| 54 45.5     | 36.3 54.5   |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/01/2024  
Supervised By :mohammad ahmed 03/02/2024



#39

Acenaphthene-d10

Concen: 20.000 ng

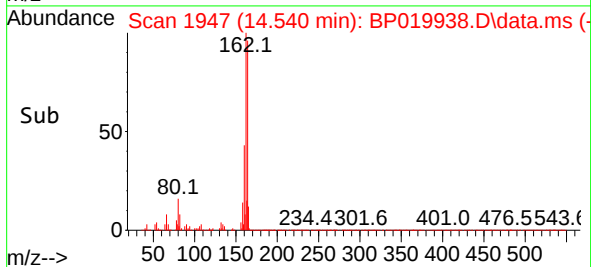
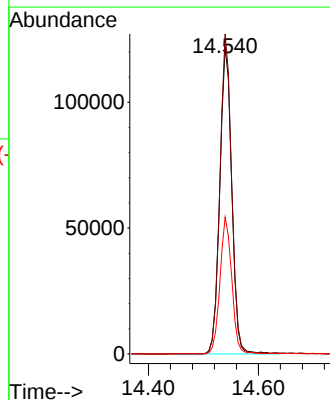
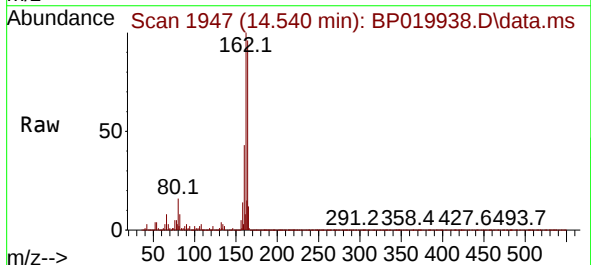
RT: 14.540 min Scan# 1947

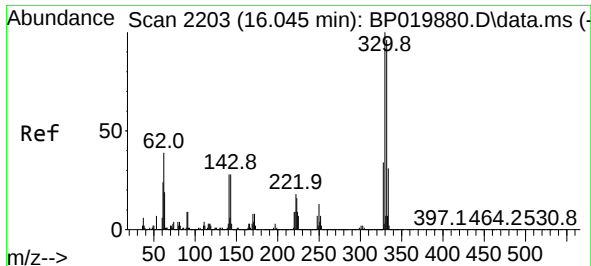
Delta R.T. -0.018 min

Lab File: BP019938.D

Acq: 29 Feb 2024 15:43

|             |              |
|-------------|--------------|
| Tgt Ion:164 | Resp: 184472 |
| Ion Ratio   | Lower Upper  |
| 164 100     |              |
| 162 104.2   | 78.1 117.1   |
| 160 44.5    | 35.3 52.9    |





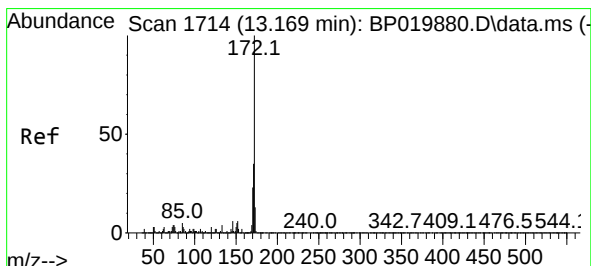
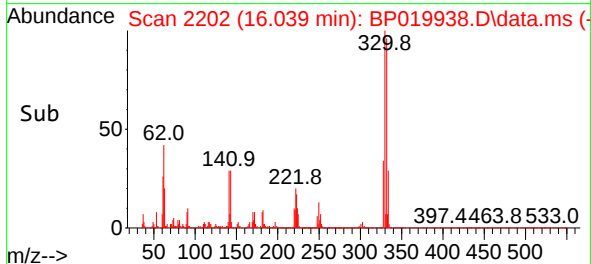
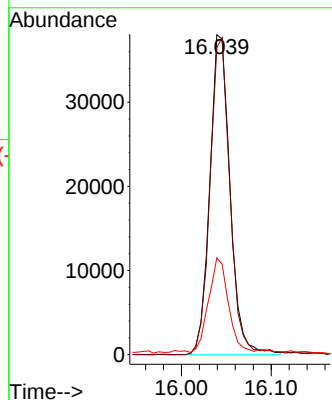
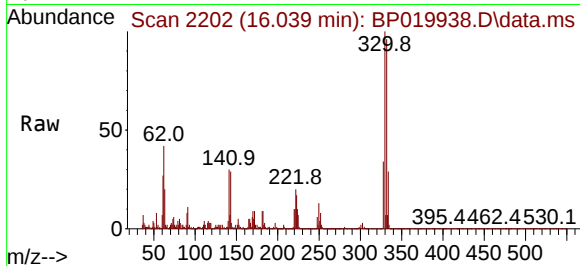
#42  
2,4,6-Tribromophenol  
Concen: 18.863 ng  
RT: 16.039 min Scan# 21  
Delta R.T. -0.023 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

Instrument :  
BNA\_P  
ClientSampleId :  
WC-4DL

Tgt Ion:330 Resp: 5966  
Ion Ratio Lower Upper  
330 100  
332 97.6 77.4 116.2  
141 28.7 24.6 37.0

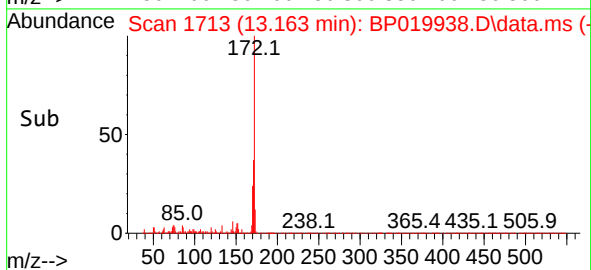
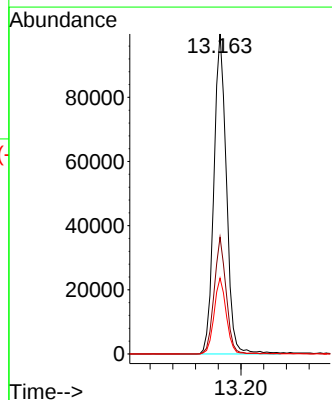
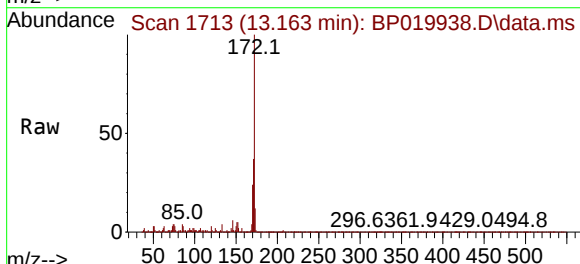
Manual Integrations  
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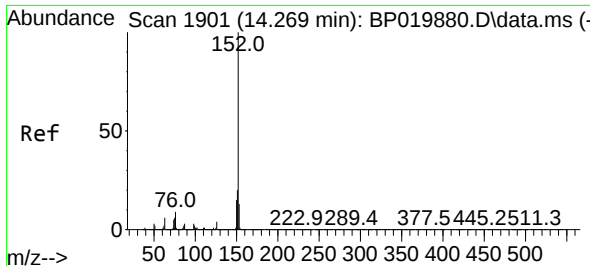
Reviewed By :Jagrut Upadhyay 03/01/2024  
Supervised By :mohammad ahmed 03/02/2024



#45  
2-Fluorobiphenyl  
Concen: 11.153 ng  
RT: 13.163 min Scan# 1713  
Delta R.T. -0.018 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

Tgt Ion:172 Resp: 152276  
Ion Ratio Lower Upper  
172 100  
171 36.5 27.8 41.6  
170 23.7 18.4 27.6





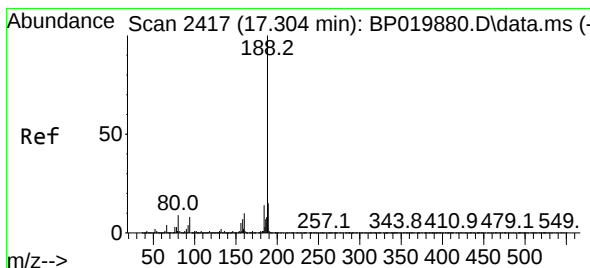
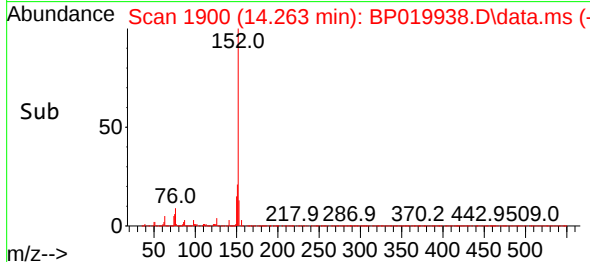
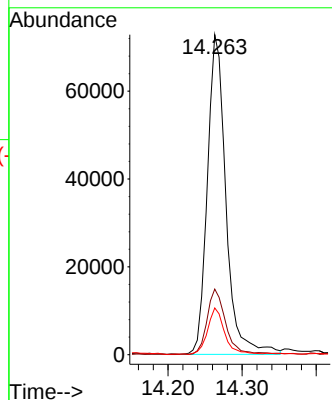
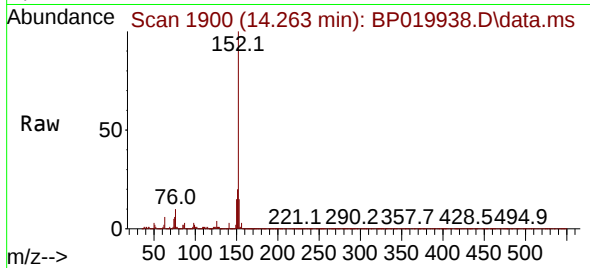
#49  
Acenaphthylene  
Concen: 7.635 ng  
RT: 14.263 min Scan# 1900  
Delta R.T. -0.018 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

Instrument :  
BNA\_P  
ClientSampleId :  
WC-4DL

Tgt Ion:152 Resp: 12681  
Ion Ratio Lower Upper  
152 100  
151 20.5 15.9 23.9  
153 14.6 10.4 15.6

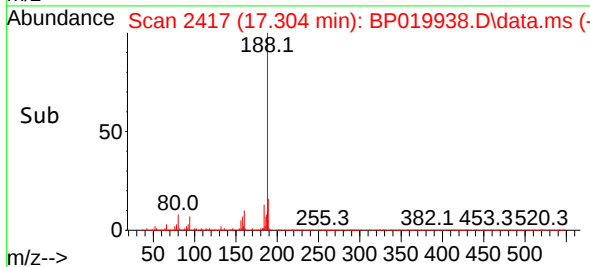
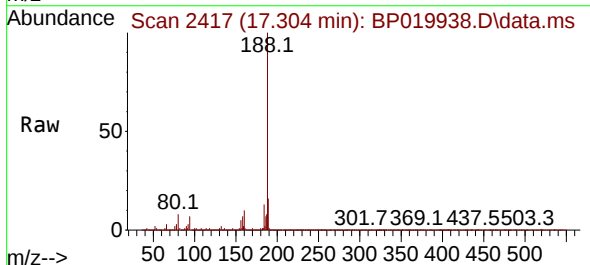
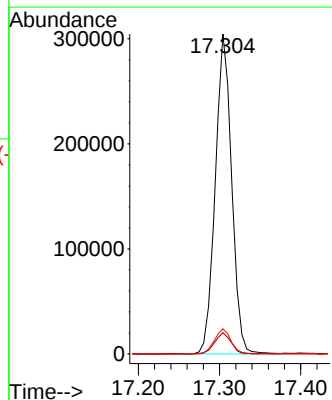
Manual Integrations  
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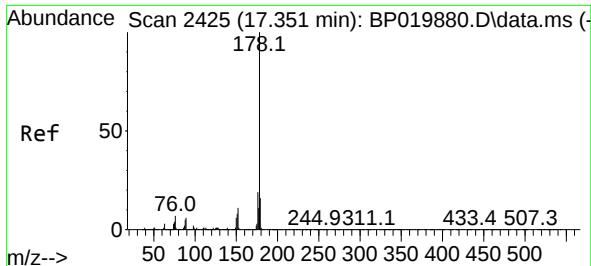
Reviewed By :Jagrut Upadhyay 03/01/2024  
Supervised By :mohammad ahmed 03/02/2024



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.304 min Scan# 2417  
Delta R.T. -0.018 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

Tgt Ion:188 Resp: 426959  
Ion Ratio Lower Upper  
188 100  
94 6.6 6.2 9.4  
80 7.9 7.0 10.4





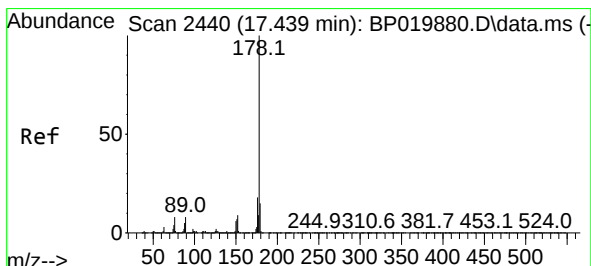
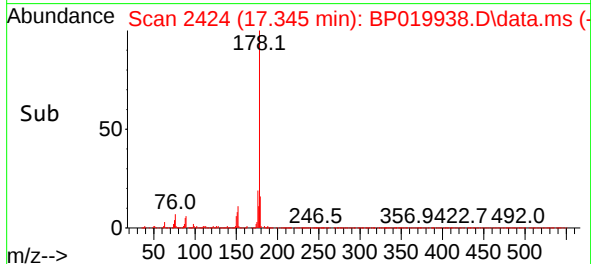
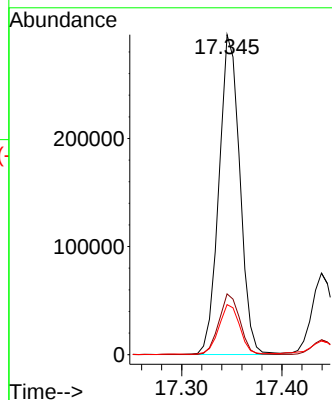
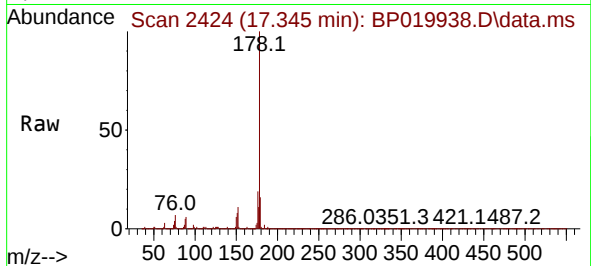
#71  
Phenanthrene  
Concen: 18.769 ng  
RT: 17.345 min Scan# 2425  
Delta R.T. -0.024 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

Instrument :  
BNA\_P  
ClientSampleId :  
WC-4DL

Tgt Ion:178 Resp: 427740  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.2 22.8  
179 15.7 12.5 18.7

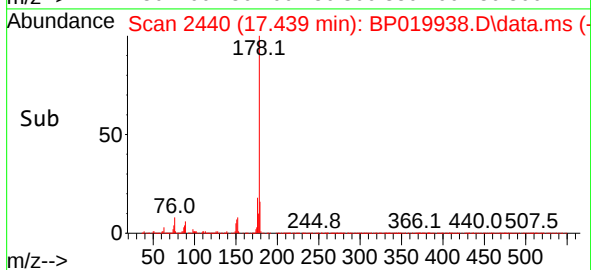
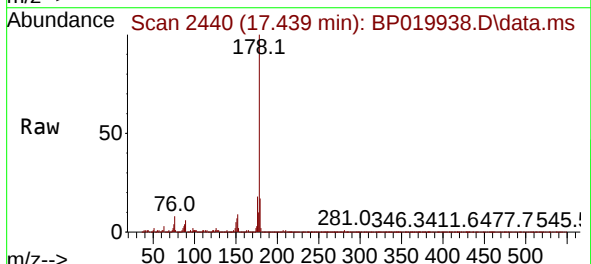
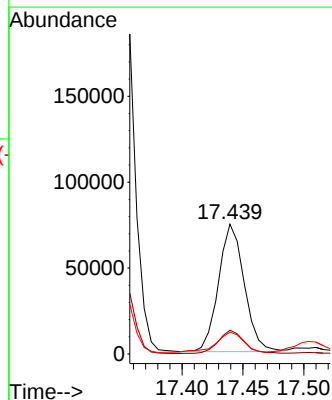
Manual Integrations  
APPROVED

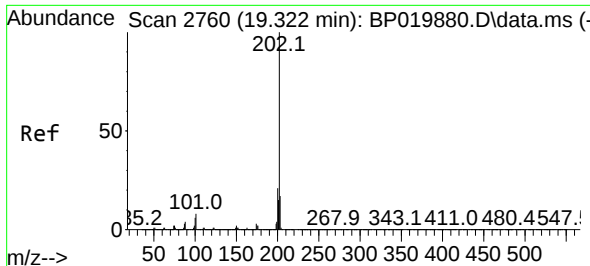
Reviewed By :Jagrut Upadhyay 03/01/2024  
Supervised By :mohammad ahmed 03/02/2024



#72  
Anthracene  
Concen: 4.698 ng  
RT: 17.439 min Scan# 2440  
Delta R.T. -0.018 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

Tgt Ion:178 Resp: 109297  
Ion Ratio Lower Upper  
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179 16.9 12.2 18.4





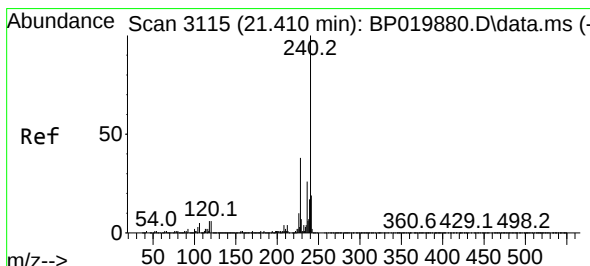
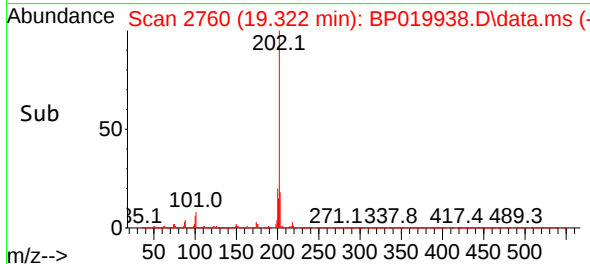
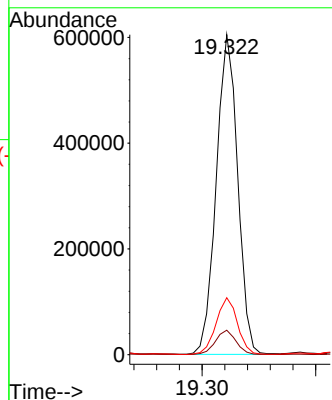
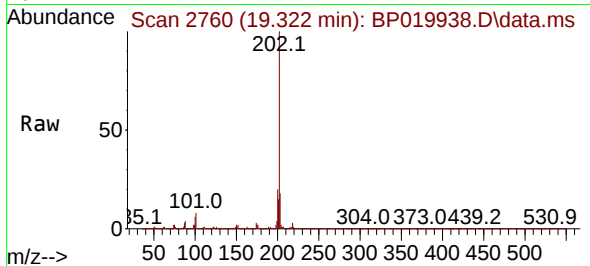
#75  
Fluoranthene  
Concen: 26.817 ng  
RT: 19.322 min Scan# 2760  
Delta R.T. -0.018 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

Instrument :  
BNA\_P  
ClientSampleId :  
WC-4DL

Tgt Ion:202 Resp: 79315  
Ion Ratio Lower Upper  
202 100  
101 7.7 0.0 27.7  
203 17.8 0.0 37.5

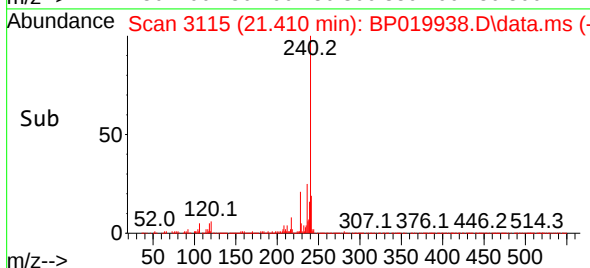
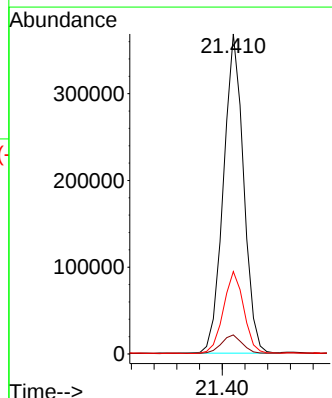
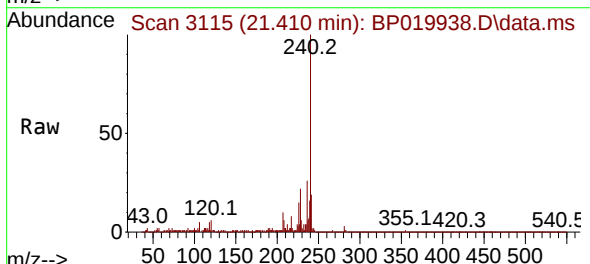
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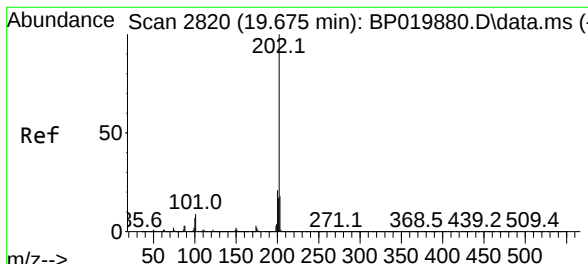
Reviewed By :Jagrut Upadhyay 03/01/2024  
Supervised By :mohammad ahmed 03/02/2024



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.410 min Scan# 3115  
Delta R.T. -0.018 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

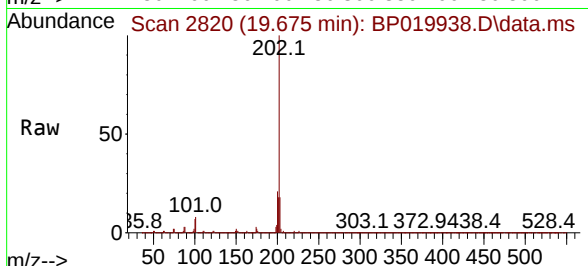
Tgt Ion:240 Resp: 453129  
Ion Ratio Lower Upper  
240 100  
120 5.9 5.1 7.7  
236 25.7 20.5 30.7





#78  
 Pyrene  
 Concen: 28.760 ng  
 RT: 19.675 min Scan# 2820  
 Delta R.T. -0.018 min  
 Lab File: BP019938.D  
 Acq: 29 Feb 2024 15:43

Instrument :  
 BNA\_P  
 ClientSampleId :  
 WC-4DL

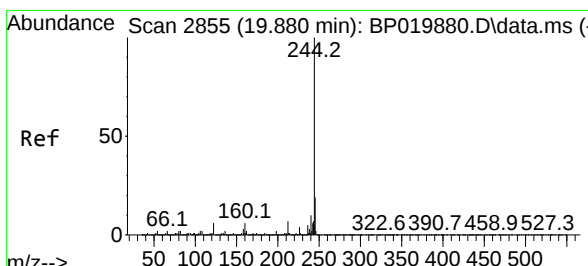
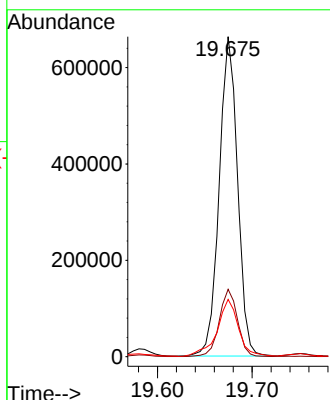
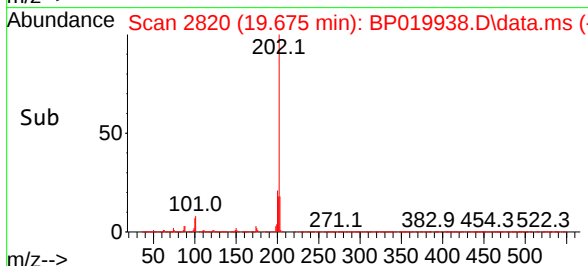


Tgt Ion: 202 Resp: 89537

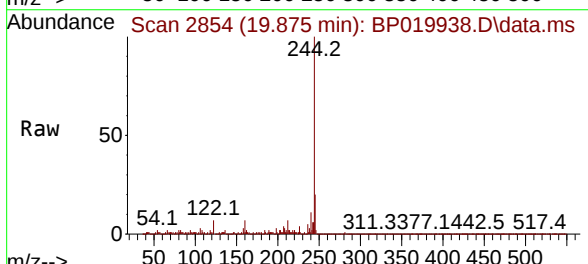
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 21.1  | 16.7  | 25.1  |
| 203 | 17.9  | 14.2  | 21.2  |

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Reviewed By :Jagrut Upadhyay 03/01/2024  
 Supervised By :mohammad ahmed 03/02/2024

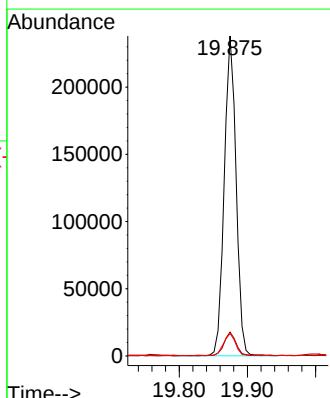
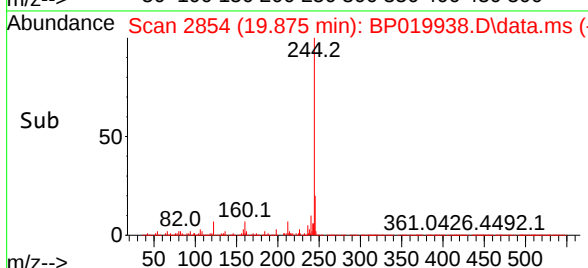


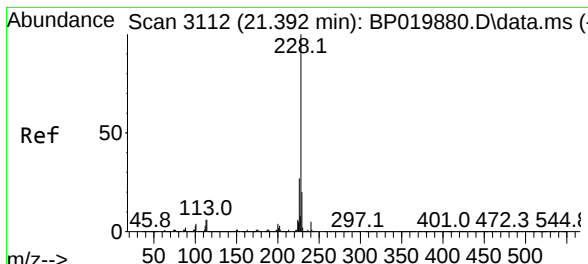
#79  
 Terphenyl-d14  
 Concen: 10.003 ng  
 RT: 19.875 min Scan# 2854  
 Delta R.T. -0.018 min  
 Lab File: BP019938.D  
 Acq: 29 Feb 2024 15:43



Tgt Ion: 244 Resp: 287573

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.4   | 5.8   | 8.8   |
| 122 | 7.0   | 5.0   | 7.6   |





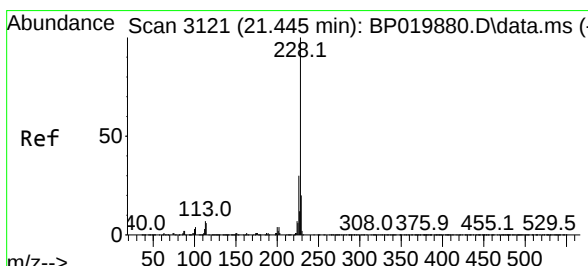
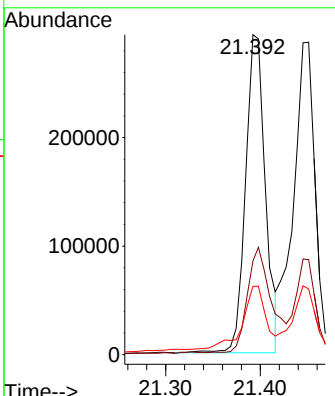
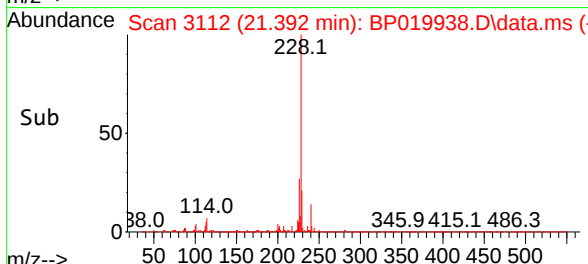
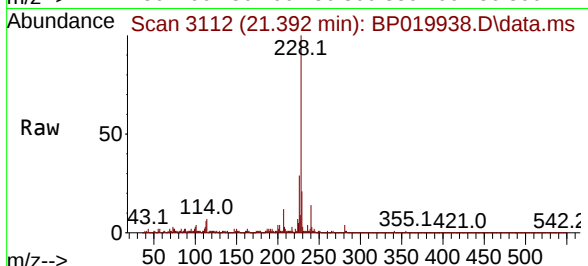
#81  
 Benzo(a)anthracene  
 Concen: 13.298 ng  
 RT: 21.392 min Scan# 3112  
 Delta R.T. -0.018 min  
 Lab File: BP019938.D  
 Acq: 29 Feb 2024 15:43

Instrument : BNA\_P  
 Client Sample Id : WC-4DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 42773 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.3  | 21.5  | 32.3  |
| 229       | 21.4  | 15.6  | 23.4  |

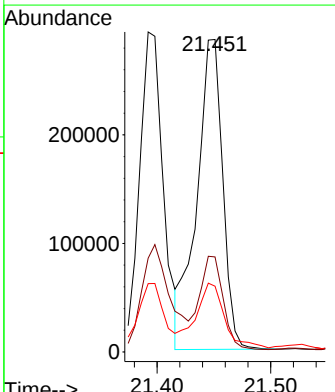
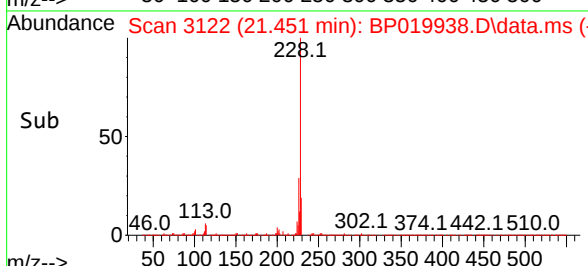
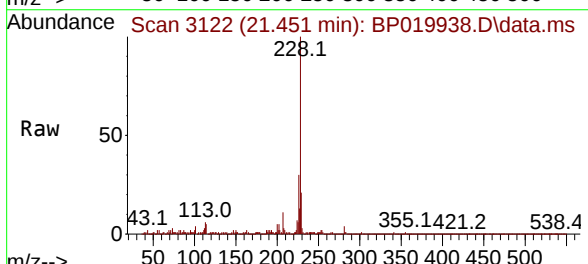
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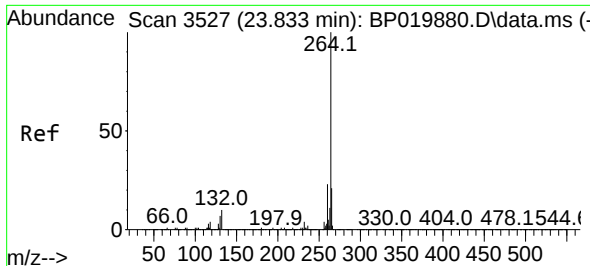
Reviewed By :Jagrut Upadhyay 03/01/2024  
 Supervised By :mohammad ahmed 03/02/2024



#83  
 Chrysene  
 Concen: 15.095 ng  
 RT: 21.451 min Scan# 3122  
 Delta R.T. -0.018 min  
 Lab File: BP019938.D  
 Acq: 29 Feb 2024 15:43

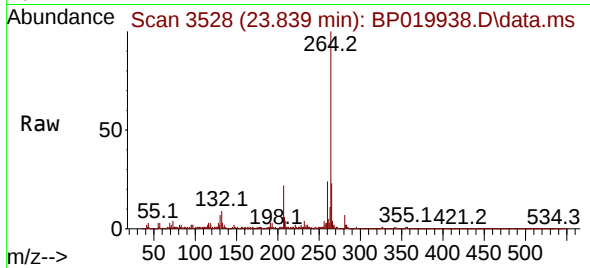
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 454956 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.4  | 23.9  | 35.9   |
| 229       | 21.0  | 15.7  | 23.5   |





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.839 min Scan# 3527  
Delta R.T. -0.029 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

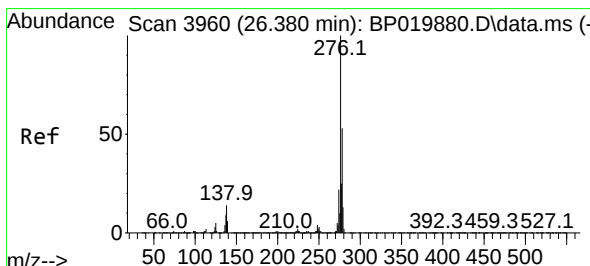
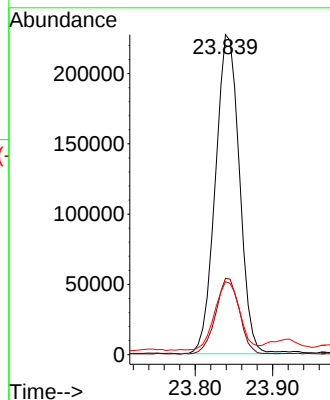
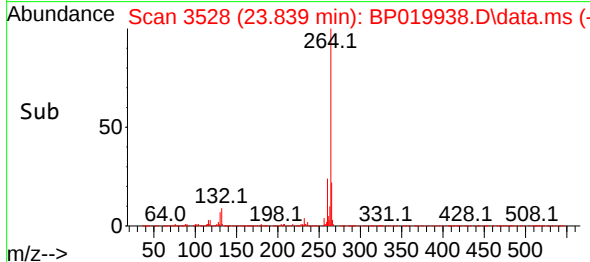
Instrument :  
BNA\_P  
ClientSampleId :  
WC-4DL



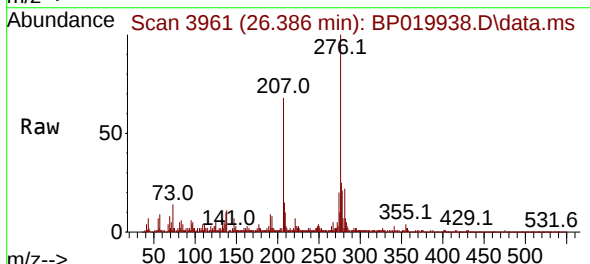
Tgt Ion:264 Resp: 489035  
Ion Ratio Lower Upper  
264 100  
260 23.9 18.7 28.1  
265 22.8 17.4 26.2

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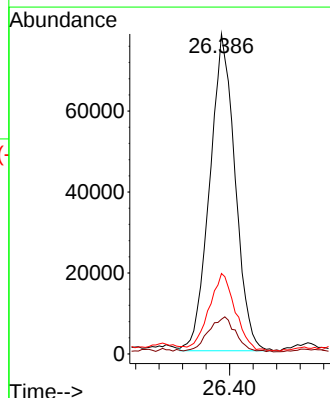
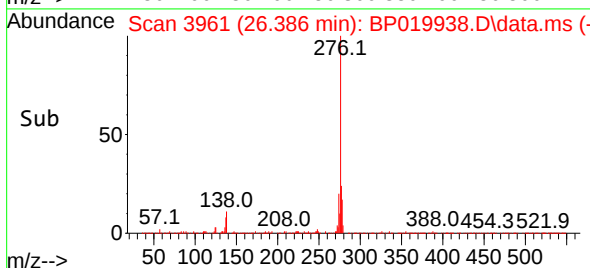
Reviewed By :Jagrut Upadhyay 03/01/2024  
Supervised By :mohammad ahmed 03/02/2024

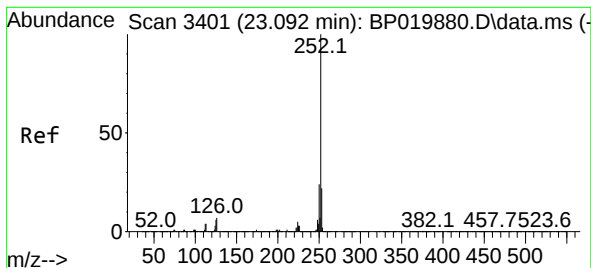


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 6.827 ng  
RT: 26.386 min Scan# 3961  
Delta R.T. -0.059 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43



Tgt Ion:276 Resp: 235046  
Ion Ratio Lower Upper  
276 100  
138 11.9 11.7 17.5  
277 24.9 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 16.733 ng

RT: 23.104 min Scan# 3401

Delta R.T. -0.018 min

Lab File: BP019938.D

Acq: 29 Feb 2024 15:43

Instrument :

BNA\_P

ClientSampleId :

WC-4DL

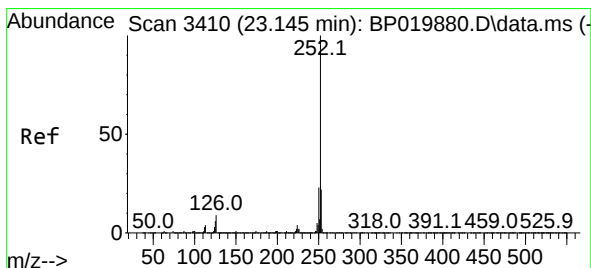
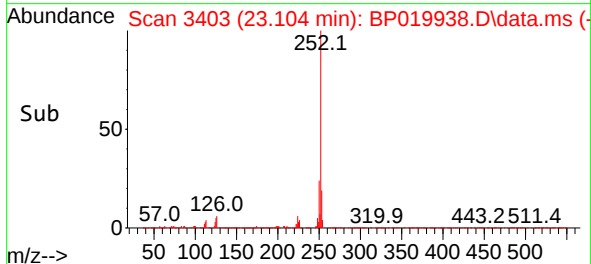
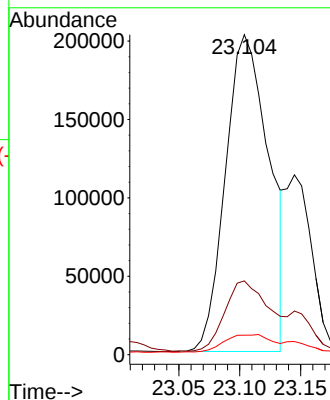
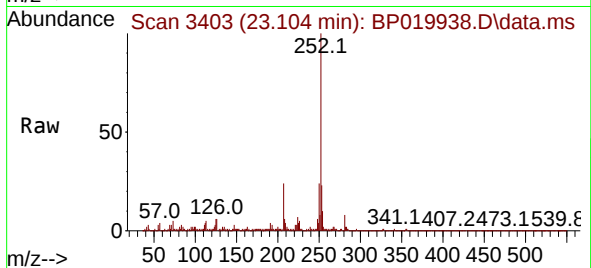
Tgt Ion:252 Resp: 50169

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.1  | 17.6  | 26.4  |
| 125 | 6.1   | 4.6   | 7.0   |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 03/01/2024  
Supervised By :mohammad ahmed 03/02/2024



#89

Benzo(k)fluoranthene

Concen: 5.919 ng m

RT: 23.145 min Scan# 3410

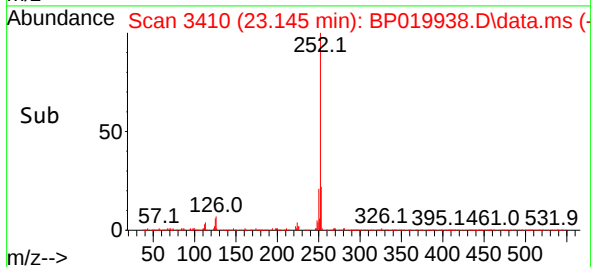
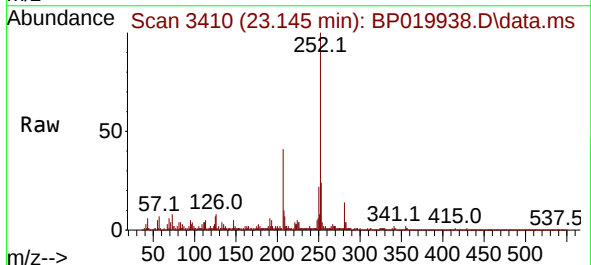
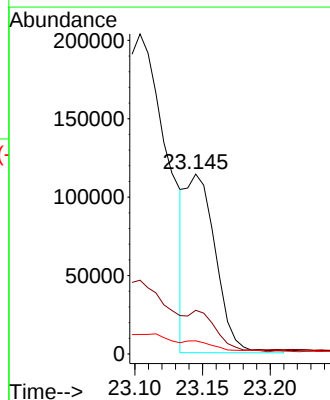
Delta R.T. -0.029 min

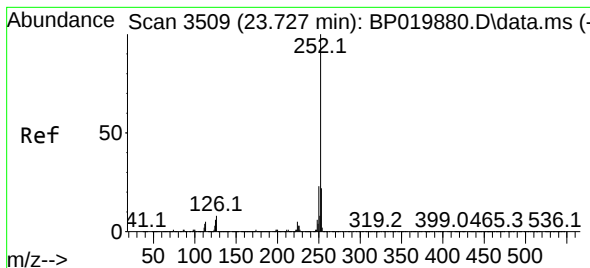
Lab File: BP019938.D

Acq: 29 Feb 2024 15:43

Tgt Ion:252 Resp: 174035

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.3  | 17.3  | 25.9  |
| 125 | 7.3   | 4.6   | 6.8   |





#90

Benzo(a)pyrene

Concen: 13.416 ng

RT: 23.733 min Scan# 3510

Delta R.T. -0.029 min

Lab File: BP019938.D

Acq: 29 Feb 2024 15:43

Instrument :

BNA\_P

ClientSampleId :

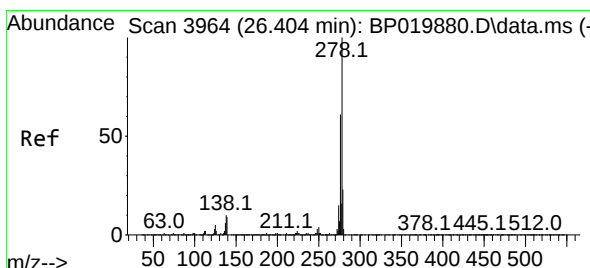
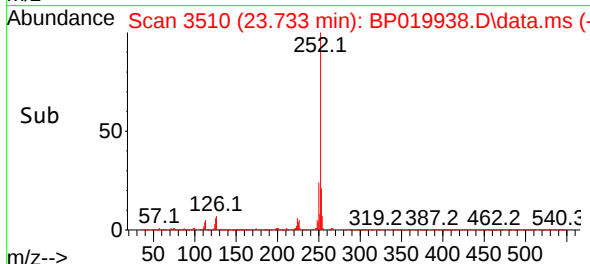
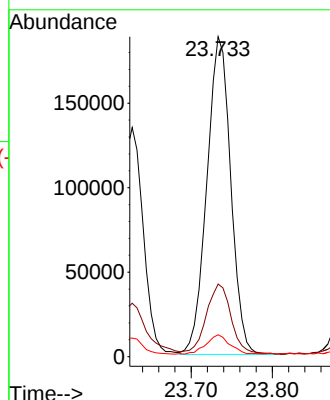
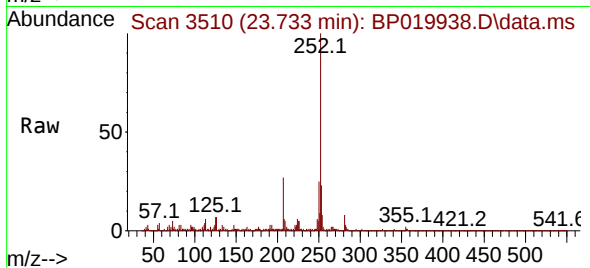
WC-4DL

Tgt Ion:252 Resp: 384415  
 Ion Ratio Lower Upper  
 252 100  
 253 22.7 17.5 26.3  
 125 6.8 5.2 7.8

Manual Integrations

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 Supervised By :mohammad ahmed 03/02/2024



#91

Dibenzo(a,h)anthracene

Concen: 2.224 ng

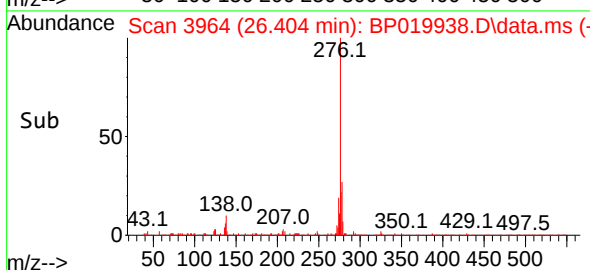
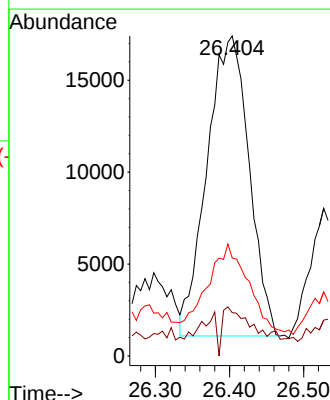
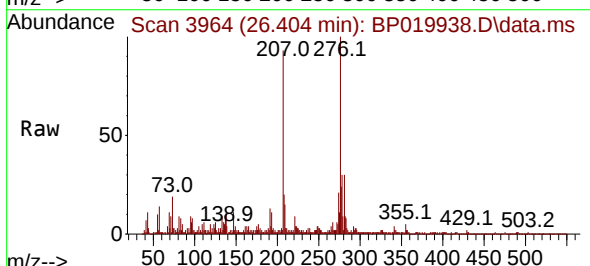
RT: 26.404 min Scan# 3964

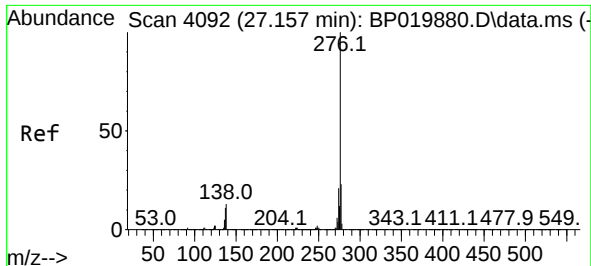
Delta R.T. -0.059 min

Lab File: BP019938.D

Acq: 29 Feb 2024 15:43

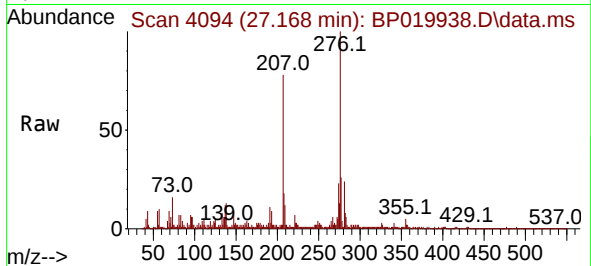
Tgt Ion:278 Resp: 64371  
 Ion Ratio Lower Upper  
 278 100  
 139 13.6 7.4 11.0#  
 279 30.6 18.7 28.1#





#92  
Benzo(g,h,i)perylene  
Concen: 8.202 ng  
RT: 27.168 min Scan# 4094  
Delta R.T. -0.059 min  
Lab File: BP019938.D  
Acq: 29 Feb 2024 15:43

Instrument :  
BNA\_P  
ClientSampleId :  
WC-4DL



Tgt Ion:276 Resp: 229164  
Ion Ratio Lower Upper  
276 100  
277 25.6 18.5 27.7  
138 13.0 10.2 15.2

Manual Integrations  
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Reviewed By :Jagrut Upadhyay 03/01/2024  
Supervised By :mohammad ahmed 03/02/2024

