

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP050423\  
 Data File : BP014944.D  
 Acq On : 04 May 2023 10:32  
 Operator : CG/JU  
 Sample : 02447-23  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 EW941

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/05/2023  
 Supervised By : Jagrut Upadhyay 05/05/2023

Quant Time: May 04 22:59:26 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP050323.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 04 11:40:49 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| -----                         |        |      |          |         |        |          |
| Internal Standards            |        |      |          |         |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.163  | 152  | 276748   | 20.000  | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.998 | 136  | 1052108  | 20.000  | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.810 | 164  | 568690   | 20.000  | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.569 | 188  | 1185514  | 20.000  | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.651 | 240  | 1081664  | 20.000  | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.251 | 264  | 1352810  | 20.000  | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |         |        |          |
| 3) 1,4-Dioxane-d8             | 3.458  | 96   | 22268    | 2.992   | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.899  | 84   | 233770   | 11.491  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.305  | 99   | 343688   | 14.324  | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.481  | 67   | 226645   | 15.283  | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.687  | 132  | 284513   | 16.127  | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.869  | 113  | 237058   | 12.821  | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.340  | 128  | 126711   | 16.934  | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.069 | 143  | 132825   | 17.287  | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.610 | 165  | 238784   | 15.827  | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.134 | 131  | 221831   | 10.166  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.210 | 166  | 697768   | 17.336  | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.504 | 160  | 834737   | 17.293  | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.987 | 143  | 46355    | 6.620   | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.798 | 176  | 613111   | 17.706  | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.916 | 200  | 43863    | 6.573   | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.663 | 188  | 931090   | 17.480  | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.880 | 212  | 1133566  | 15.538  | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.080 | 264  | 1229569  | 18.654  | ng/u1  | 0.01     |
| Target Compounds              |        |      |          |         |        |          |
|                               |        |      |          |         | Qvalue |          |
| 52) Acenaphthene              | 14.875 | 153  | 602541   | 15.911  | ng/u1  | 98       |
| 56) Dibenzofuran              | 15.204 | 168  | 382688   | 7.489   | ng/u1  | 99       |
| 61) Fluorene                  | 15.857 | 166  | 689206   | 17.098  | ng/u1  | 99       |
| 72) Phenanthrene              | 17.616 | 178  | 9738326  | 148.689 | ng/u1  | 98       |
| 74) Anthracene                | 17.698 | 178  | 3041207  | 46.640  | ng/u1  | 100      |
| 77) Carbazole                 | 17.963 | 167  | 928856   | 16.936  | ng/u1  | 99       |
| 80) Fluoranthene              | 19.569 | 202  | 13487602 | 150.668 | ng/u1# | 93       |
| 82) Pyrene                    | 19.922 | 202  | 11784907 | 124.258 | ng/u1  | 94       |
| 85) Benzo(a)anthracene        | 21.633 | 228  | 6491715  | 89.916  | ng/u1  | 98       |
| 87) Chrysene                  | 21.692 | 228  | 5856647  | 80.564  | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 23.457 | 252  | 8510959  | 97.346  | ng/u1  | 98       |
| 91) Benzo(k)fluoranthene      | 23.504 | 252  | 2989410m | 33.596  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.145 | 252  | 6342265  | 82.715  | ng/u1  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 27.015 | 276  | 4610219  | 49.291  | ng/u1  | 97       |
| 95) Dibenzo(a,h)anthracene    | 27.021 | 278  | 1071262  | 13.974  | ng/u1# | 84       |
| 96) Benzo(g,h,i)perylene      | 27.868 | 276  | 4032141  | 50.653  | ng/u1  | 98       |
| -----                         |        |      |          |         |        |          |

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

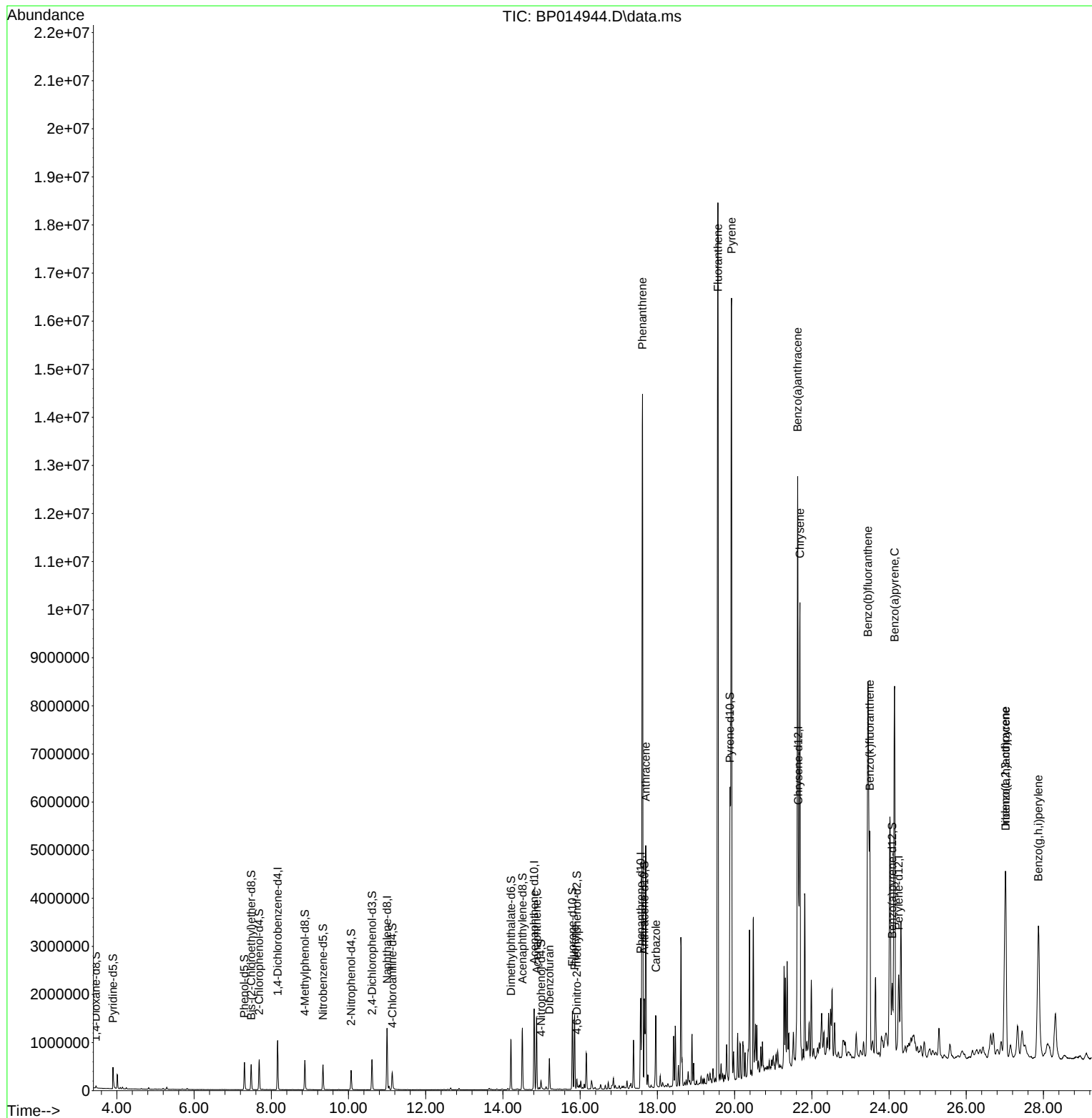
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP050423\  
Data File : BP014944.D  
Acq On : 04 May 2023 10:32  
Operator : CG/JU  
Sample : 02447-23  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

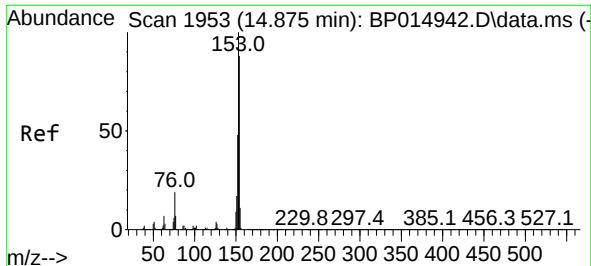
Instrument :  
BNA\_P  
ClientSampleId :  
EW941

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 05/05/2023  
Supervised By :Jagrut Upadhyay 05/05/2023

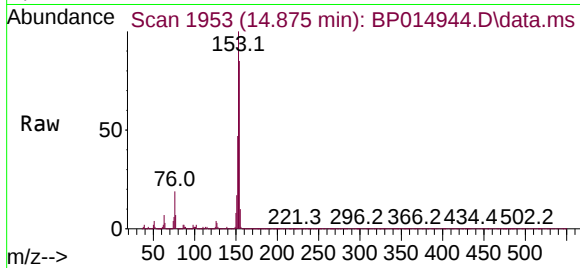
Quant Time: May 04 22:59:26 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP050323.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 04 11:40:49 2023  
Response via : Initial Calibration





#52  
Acenaphthene  
Concen: 15.911 ng/ul  
RT: 14.875 min Scan# 1953  
Delta R.T. -0.000 min  
Lab File: BP014944.D  
Acq: 04 May 2023 10:32

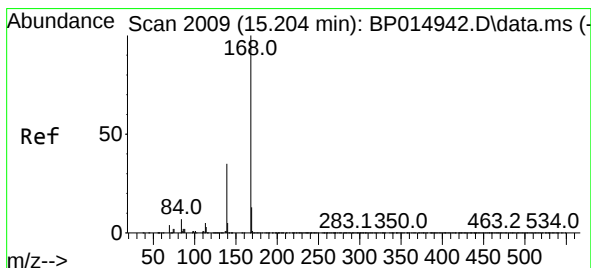
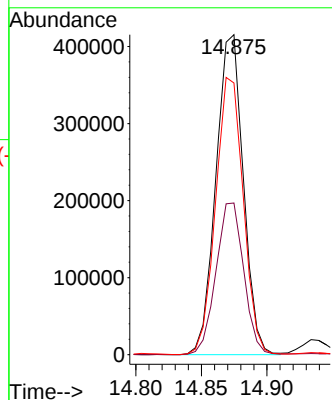
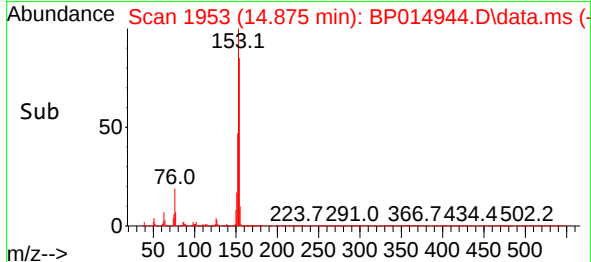
Instrument :  
BNA\_P  
ClientSampleId :  
EW941



Tgt Ion:153 Resp: 60254  
Ion Ratio Lower Upper  
153 100  
152 47.4 38.8 58.2  
154 84.9 69.6 104.4

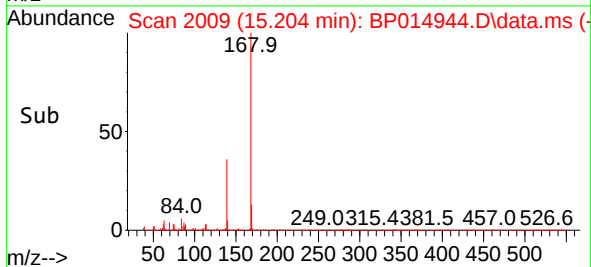
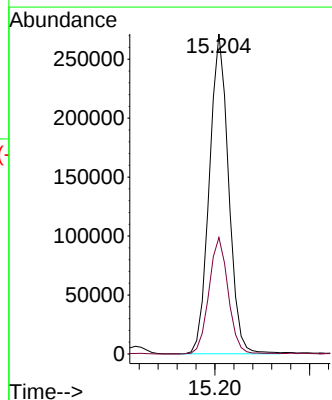
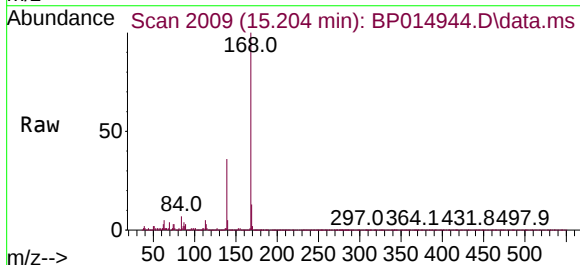
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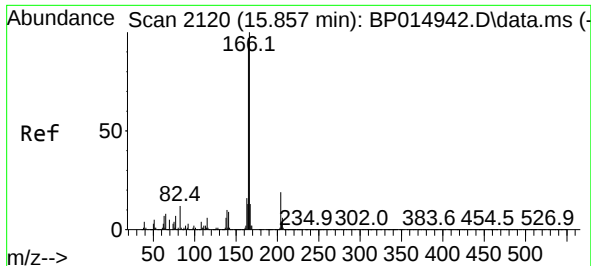
Reviewed By :Christian Giraldo 05/05/2023  
Supervised By :Jagrut Upadhyay 05/05/2023



#56  
Dibenzofuran  
Concen: 7.489 ng/ul  
RT: 15.204 min Scan# 2009  
Delta R.T. -0.000 min  
Lab File: BP014944.D  
Acq: 04 May 2023 10:32

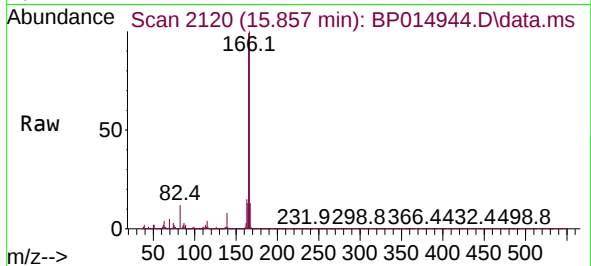
Tgt Ion:168 Resp: 382688  
Ion Ratio Lower Upper  
168 100  
139 36.4 28.6 42.8





#61  
Fluorene  
Concen: 17.098 ng/ul  
RT: 15.857 min Scan# 2120  
Delta R.T. -0.000 min  
Lab File: BP014944.D  
Acq: 04 May 2023 10:32

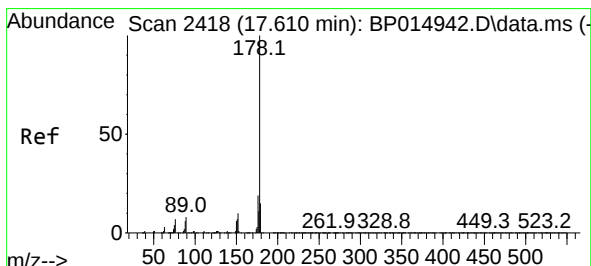
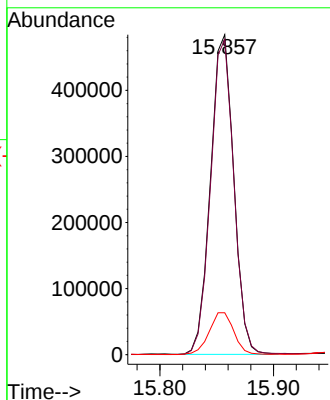
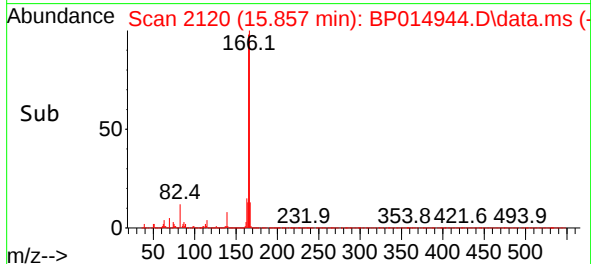
Instrument :  
BNA\_P  
ClientSampleId :  
EW941



Tgt Ion:166 Resp: 689200  
Ion Ratio Lower Upper  
166 100  
165 98.5 79.3 118.9  
167 13.1 10.7 16.1

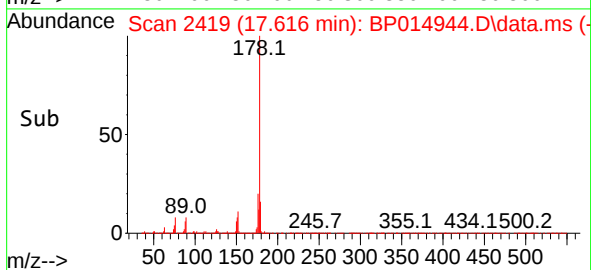
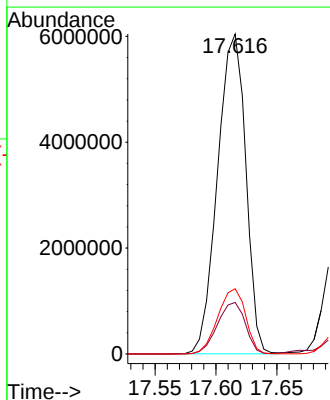
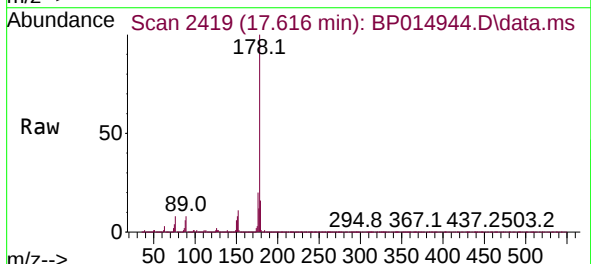
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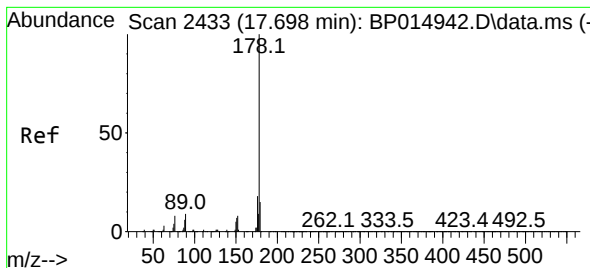
Reviewed By :Christian Giraldo 05/05/2023  
Supervised By :Jagrut Upadhyay 05/05/2023



#72  
Phenanthrene  
Concen: 148.689 ng/ul  
RT: 17.616 min Scan# 2419  
Delta R.T. 0.006 min  
Lab File: BP014944.D  
Acq: 04 May 2023 10:32

Tgt Ion:178 Resp: 9738326  
Ion Ratio Lower Upper  
178 100  
179 16.1 12.2 18.4  
176 20.4 15.4 23.0





#74

Anthracene

Concen: 46.640 ng/ul

RT: 17.698 min Scan# 2433

Delta R.T. -0.000 min

Lab File: BP014944.D

Acq: 04 May 2023 10:32

Instrument :

BNA\_P

ClientSampleId :

EW941

Tgt Ion:178 Resp: 304120

Ion Ratio Lower Upper

178 100

179 15.5 12.6 18.8

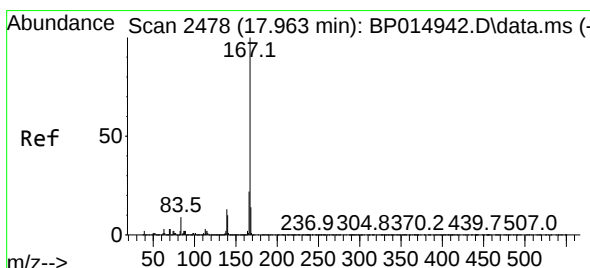
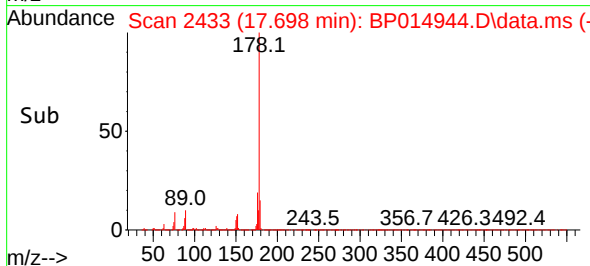
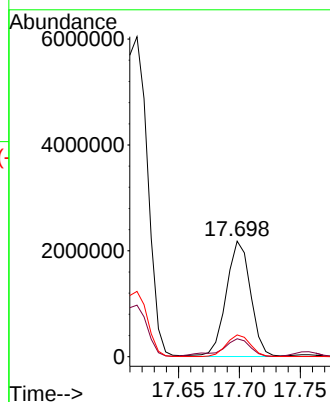
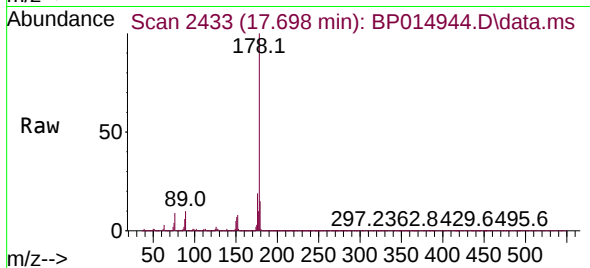
176 18.8 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/05/2023

Supervised By :Jagrut Upadhyay 05/05/2023



#77

Carbazole

Concen: 16.936 ng/ul

RT: 17.963 min Scan# 2478

Delta R.T. -0.000 min

Lab File: BP014944.D

Acq: 04 May 2023 10:32

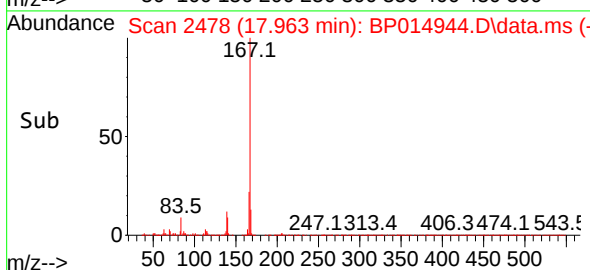
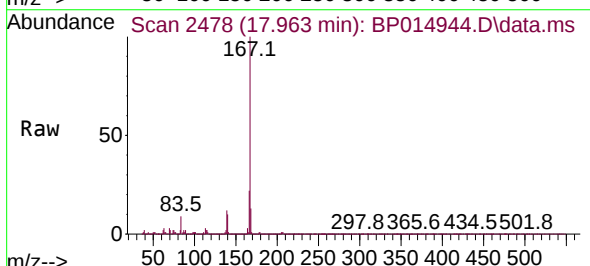
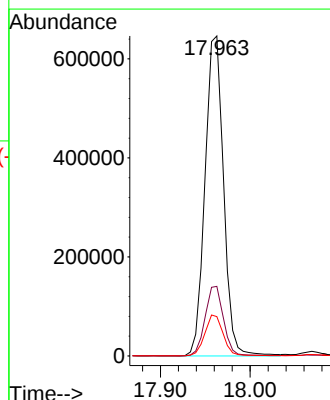
Tgt Ion:167 Resp: 928856

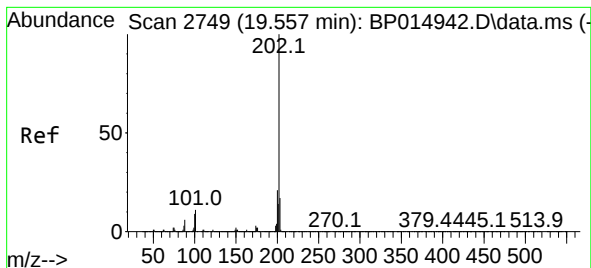
Ion Ratio Lower Upper

167 100

166 21.8 17.1 25.7

139 12.3 10.1 15.1





#80

Fluoranthene

Concen: 150.668 ng/u1

RT: 19.569 min Scan# 21

Delta R.T. 0.012 min

Lab File: BP014944.D

Acq: 04 May 2023 10:32

Instrument :

BNA\_P

ClientSampleId :

EW941

Tgt Ion:202 Resp:1348760

Ion Ratio Lower Upper

202 100

101 9.5 10.1 15.1

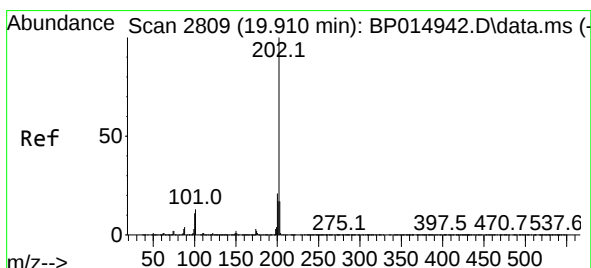
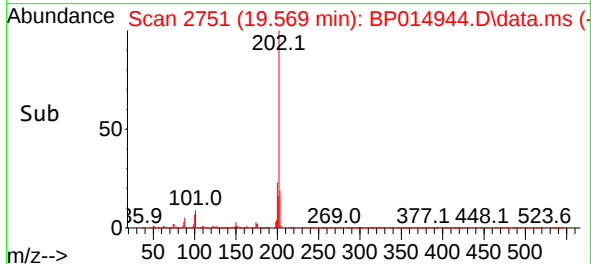
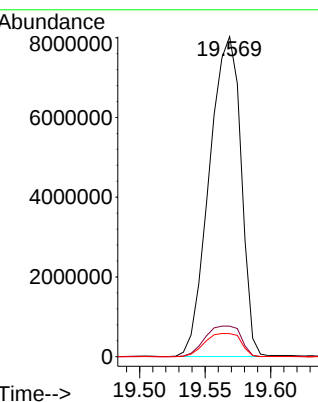
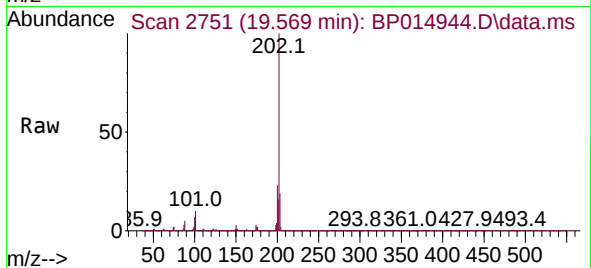
100 7.2 7.7 11.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/05/2023

Supervised By :Jagrut Upadhyay 05/05/2023



#82

Pyrene

Concen: 124.258 ng/u1

RT: 19.922 min Scan# 2811

Delta R.T. 0.012 min

Lab File: BP014944.D

Acq: 04 May 2023 10:32

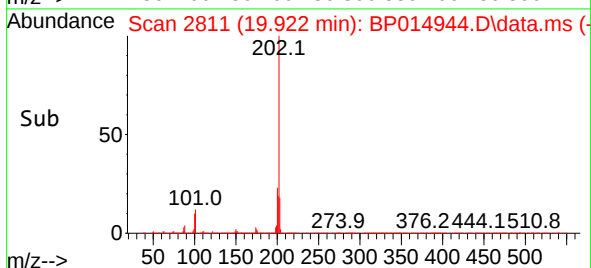
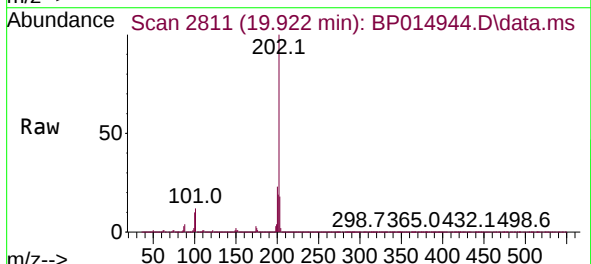
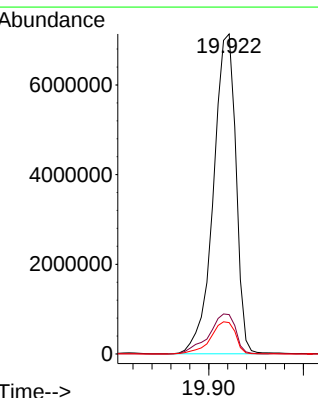
Tgt Ion:202 Resp:11784907

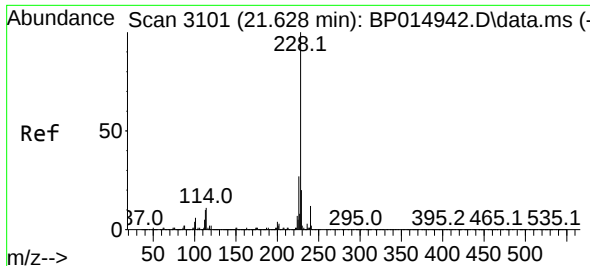
Ion Ratio Lower Upper

202 100

101 12.3 11.9 17.9

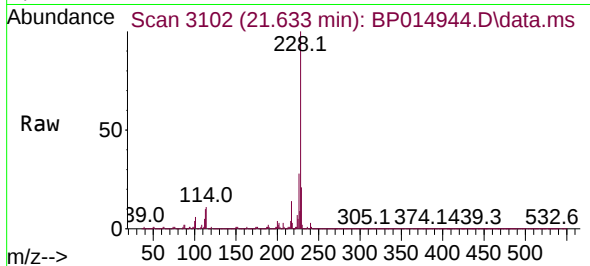
100 9.8 9.7 14.5





#85  
Benzo(a)anthracene  
Concen: 89.916 ng/u1  
RT: 21.633 min Scan# 3102  
Delta R.T. 0.006 min  
Lab File: BP014944.D  
Acq: 04 May 2023 10:32

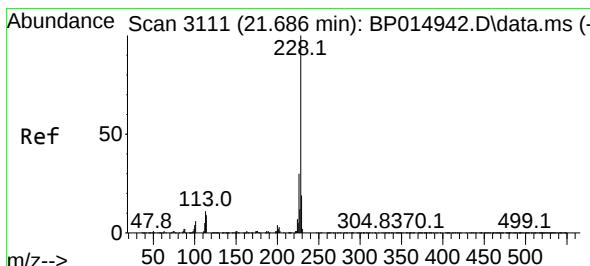
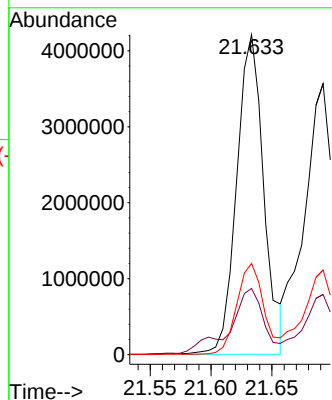
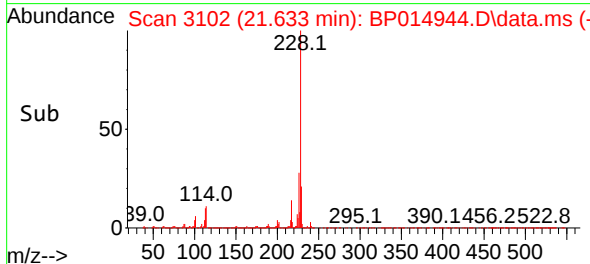
Instrument :  
BNA\_P  
ClientSampleId :  
EW941



Tgt Ion:228 Resp: 6491715  
Ion Ratio Lower Upper  
228 100  
229 20.7 15.9 23.9  
226 28.5 22.1 33.1

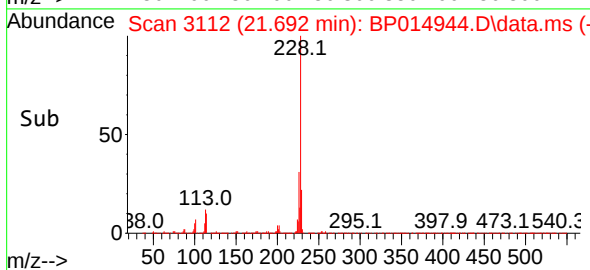
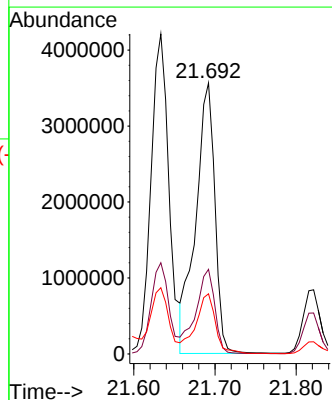
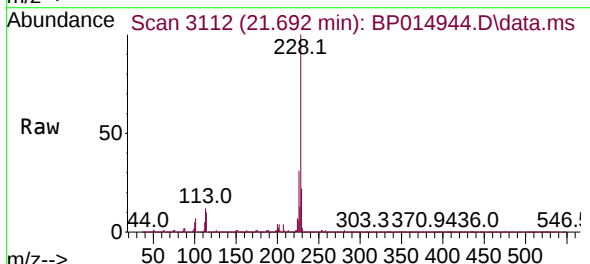
Manual Integrations  
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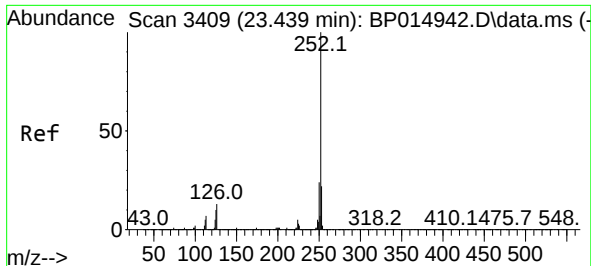
Reviewed By :Christian Giraldo 05/05/2023  
Supervised By :Jagrut Upadhyay 05/05/2023



#87  
Chrysene  
Concen: 80.564 ng/u1  
RT: 21.692 min Scan# 3112  
Delta R.T. 0.006 min  
Lab File: BP014944.D  
Acq: 04 May 2023 10:32

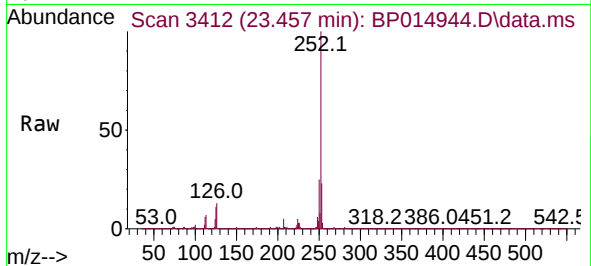
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Ion Ratio Lower Upper  
228 100  
226 31.2 24.3 36.5  
229 22.2 15.8 23.8





#90  
Benzo(b)fluoranthene  
Concen: 97.346 ng/ul  
RT: 23.457 min Scan# 3409  
Delta R.T. 0.017 min  
Lab File: BP014944.D  
Acq: 04 May 2023 10:32

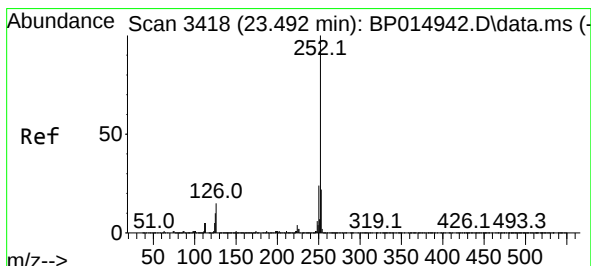
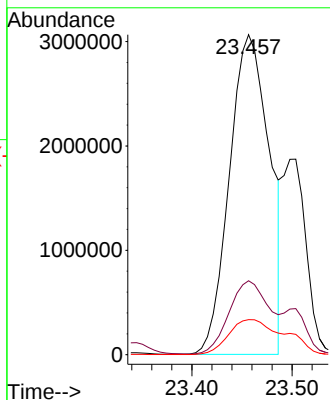
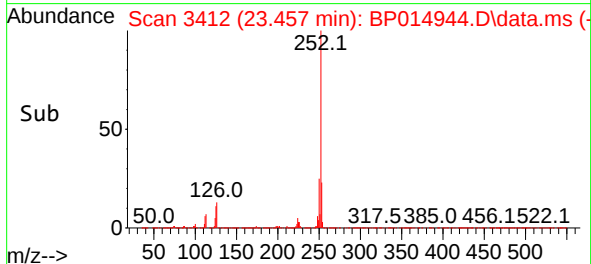
Instrument :  
BNA\_P  
ClientSampleId :  
EW941



Tgt Ion:252 Resp: 8510959  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.4 26.2  
125 11.0 8.4 12.6

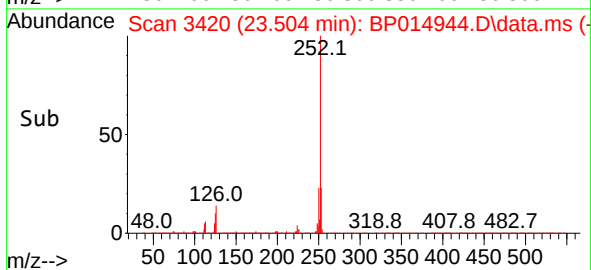
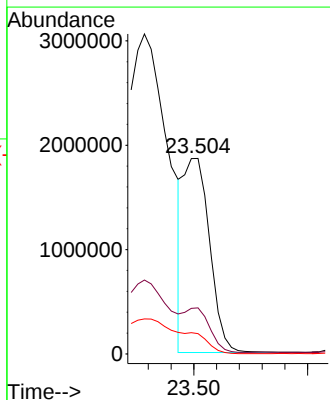
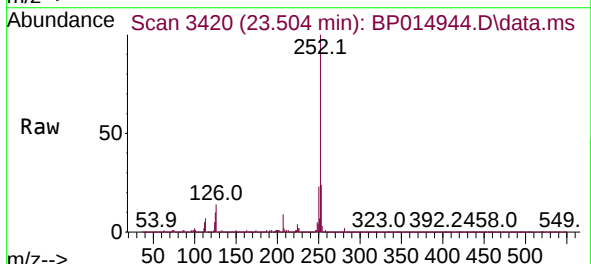
Manual Integrations  
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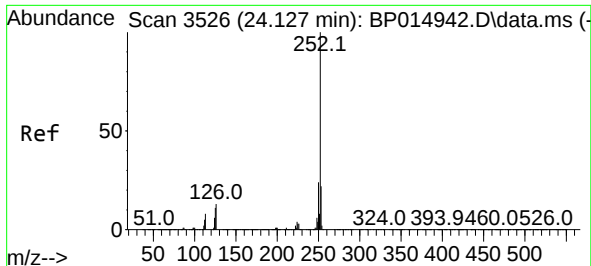
Reviewed By :Christian Giraldo 05/05/2023  
Supervised By :Jagrut Upadhyay 05/05/2023



#91  
Benzo(k)fluoranthene  
Concen: 33.596 ng/ul m  
RT: 23.504 min Scan# 3420  
Delta R.T. 0.012 min  
Lab File: BP014944.D  
Acq: 04 May 2023 10:32

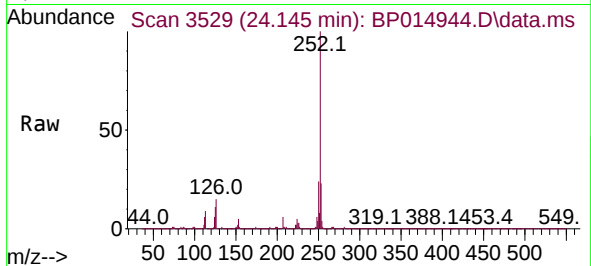
Tgt Ion:252 Resp: 2989410  
Ion Ratio Lower Upper  
252 100  
253 23.6 17.8 26.6  
125 10.4 8.9 13.3





#93  
Benzo(a)pyrene  
Concen: 82.715 ng/ul  
RT: 24.145 min Scan# 3526  
Delta R.T. 0.017 min  
Lab File: BP014944.D  
Acq: 04 May 2023 10:32

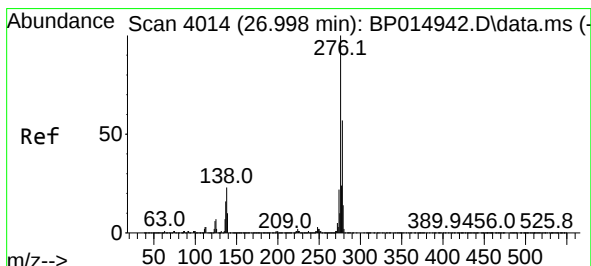
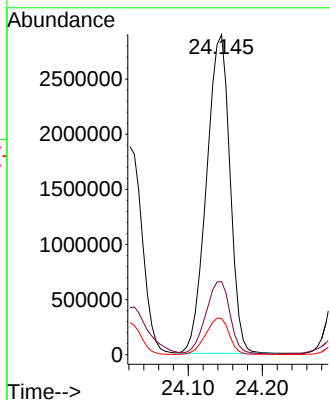
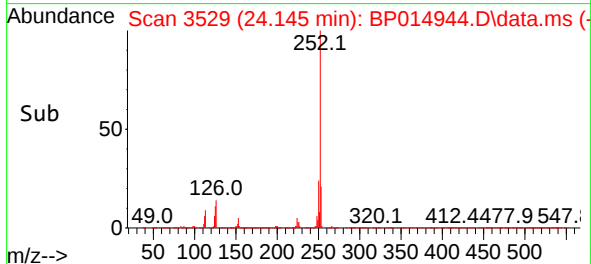
Instrument :  
BNA\_P  
ClientSampleId :  
EW941



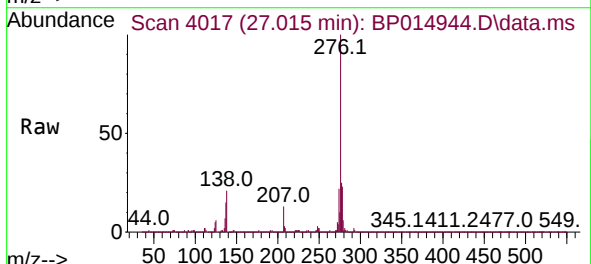
Tgt Ion:252 Resp: 634226  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.5 26.3  
125 11.3 9.4 14.2

Manual Integrations  
APPROVED

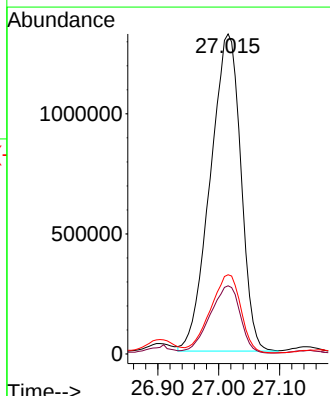
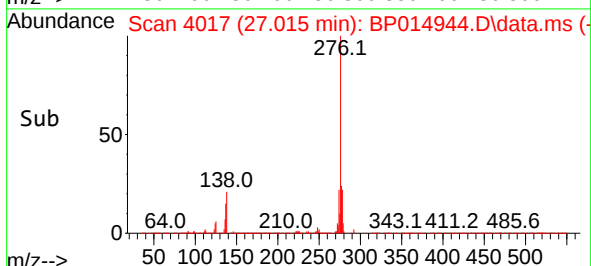
Reviewed By :Christian Giraldo 05/05/2023  
Supervised By :Jagrut Upadhyay 05/05/2023

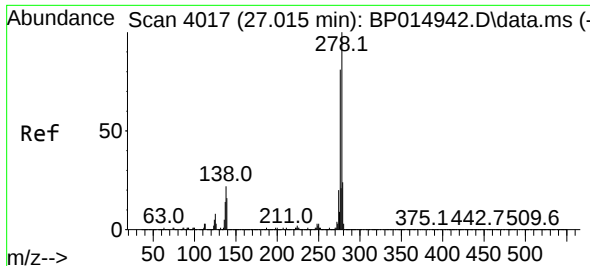


#94  
Indeno(1,2,3-cd)pyrene  
Concen: 49.291 ng/ul  
RT: 27.015 min Scan# 4017  
Delta R.T. 0.017 min  
Lab File: BP014944.D  
Acq: 04 May 2023 10:32



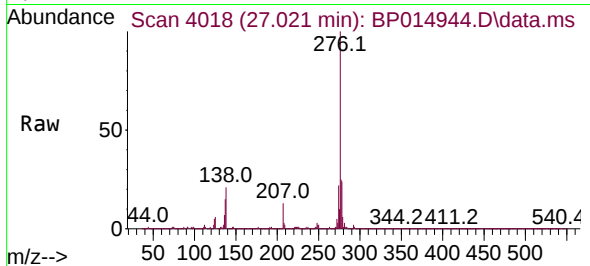
Tgt Ion:276 Resp: 4610219  
Ion Ratio Lower Upper  
276 100  
138 21.3 19.4 29.0  
277 24.8 19.4 29.2





#95  
Dibenzo(a,h)anthracene  
Concen: 13.974 ng/ul  
RT: 27.021 min Scan# 4017  
Delta R.T. 0.006 min  
Lab File: BP014944.D  
Acq: 04 May 2023 10:32

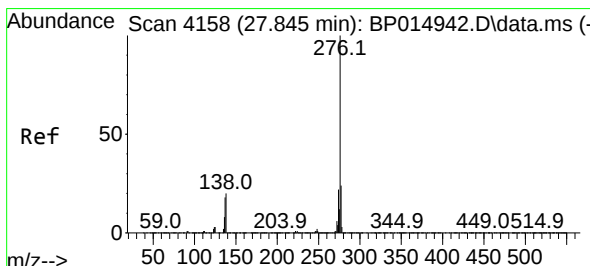
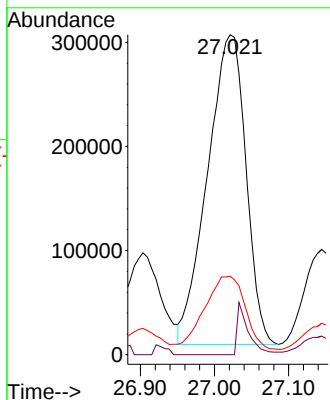
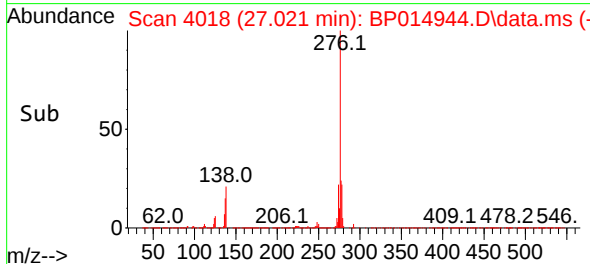
Instrument :  
BNA\_P  
ClientSampleId :  
EW941



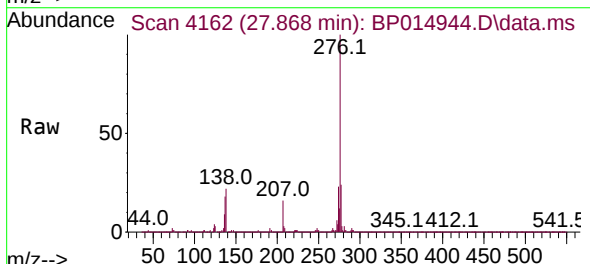
Tgt Ion:278 Resp: 107126  
Ion Ratio Lower Upper  
278 100  
139 0.0 12.9 19.3  
279 24.5 19.0 28.6

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 05/05/2023  
Supervised By :Jagrut Upadhyay 05/05/2023



#96  
Benzo(g,h,i)perylene  
Concen: 50.653 ng/ul  
RT: 27.868 min Scan# 4162  
Delta R.T. 0.023 min  
Lab File: BP014944.D  
Acq: 04 May 2023 10:32



Tgt Ion:276 Resp: 4032141  
Ion Ratio Lower Upper  
276 100  
138 21.7 18.0 27.0  
277 24.1 19.8 29.8

