

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP021723\  
 Data File : BP013853.D  
 Acq On : 17 Feb 2023 19:41  
 Operator : CG/JU  
 Sample : 01586-07  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 COMP-4

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 02/20/2023  
 Supervised By :Jagrut Upadhyay 02/20/2023

Quant Time: Feb 17 22:07:31 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP021623.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 17 18:05:40 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.110  | 152  | 142385   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.934 | 136  | 562769   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.745 | 164  | 343040   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.498 | 188  | 883137   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.574 | 240  | 892021   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 24.133 | 264  | 1040775  | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.646  | 112  | 43223    | 5.003  | ng    | 0.00     |
| 7) Phenol-d6                | 7.257  | 99   | 633354   | 57.242 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.281  | 82   | 574265   | 55.103 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.233 | 330  | 1334     | 0.267  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.369 | 172  | 1256988  | 48.129 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.033 | 244  | 2613974  | 56.381 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 17.539 | 178  | 327129   | 6.612  | ng    | 99       |
| 75) Fluoranthene            | 19.492 | 202  | 585642   | 9.495  | ng    | 100      |
| 78) Pyrene                  | 19.845 | 202  | 524579   | 8.606  | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.563 | 228  | 298726   | 4.677  | ng    | 97       |
| 83) Chrysene                | 21.616 | 228  | 286024m  | 4.622  | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 26.821 | 276  | 191223   | 2.362  | ng    | # 95     |
| 88) Benzo(b)fluoranthene    | 23.351 | 252  | 365174   | 5.548  | ng    | # 91     |
| 89) Benzo(k)fluoranthene    | 23.398 | 252  | 155967m  | 2.334  | ng    |          |
| 90) Benzo(a)pyrene          | 24.015 | 252  | 258260   | 4.058  | ng    | # 92     |
| 92) Benzo(g,h,i)perylene    | 27.656 | 276  | 191428   | 2.854  | ng    | 96       |
| -----                       |        |      |          |        |       |          |

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

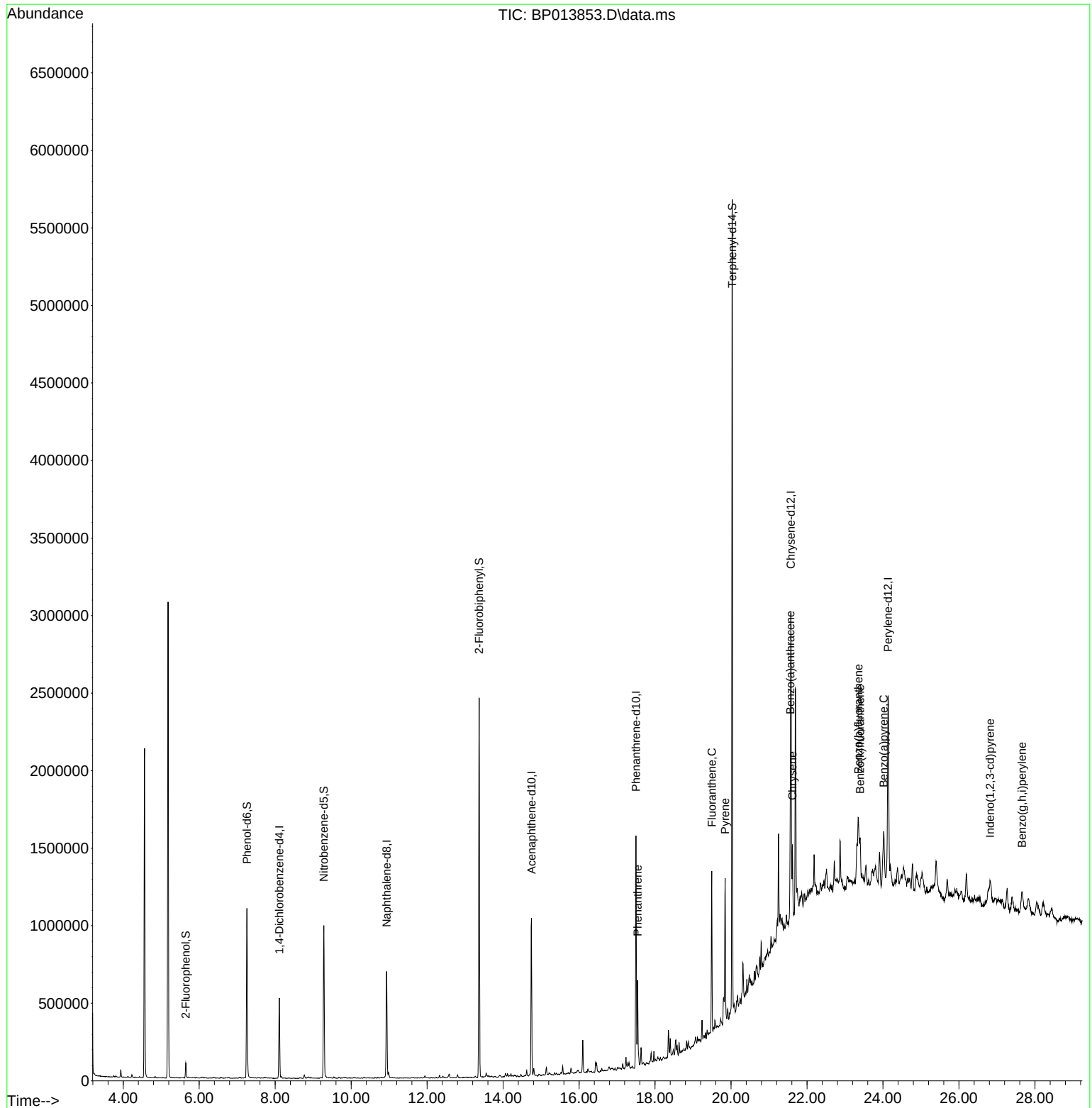
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP021723\  
Data File : BP013853.D  
Acq On : 17 Feb 2023 19:41  
Operator : CG/JU  
Sample : 01586-07  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

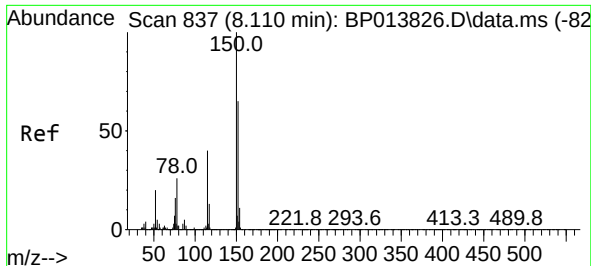
Instrument :  
BNA\_P  
ClientSampleId :  
COMP-4

Quant Time: Feb 17 22:07:31 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP021623.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 17 18:05:40 2023  
Response via : Initial Calibration

Manual Integrations  
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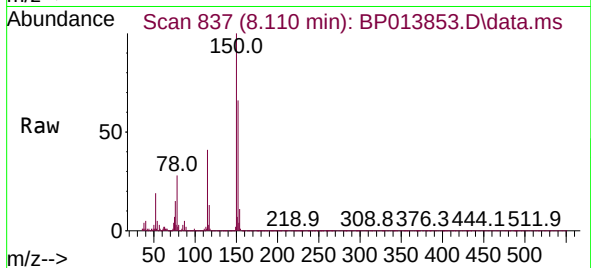
Reviewed By :Yogesh Patel 02/20/2023  
Supervised By :Jagrut Upadhyay 02/20/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.110 min Scan# 837  
Delta R.T. 0.000 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

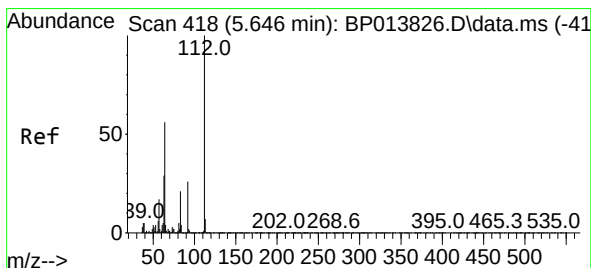
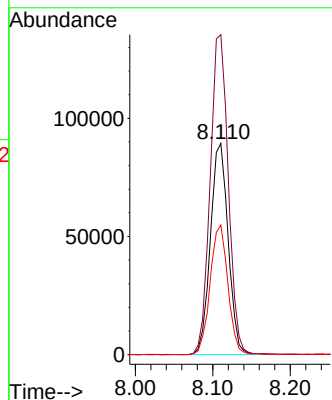
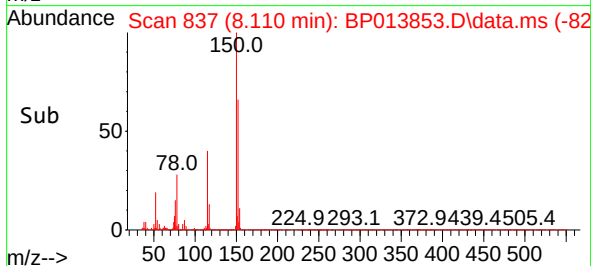
Instrument :  
BNA\_P  
ClientSampleId :  
COMP-4



Tgt Ion:152 Resp: 142385  
Ion Ratio Lower Upper  
152 100  
150 151.5 122.8 184.2  
115 61.4 49.0 73.6

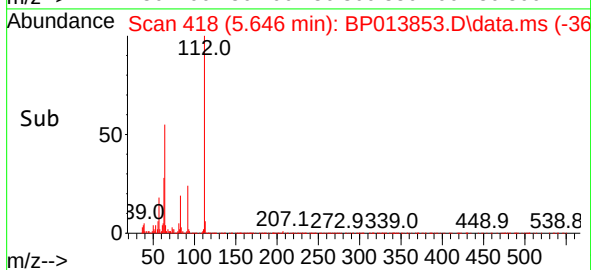
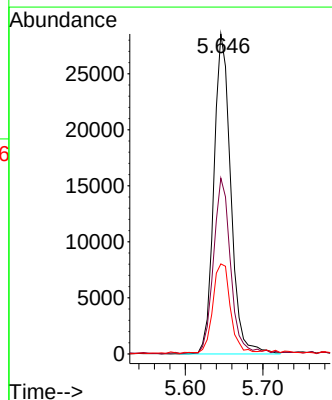
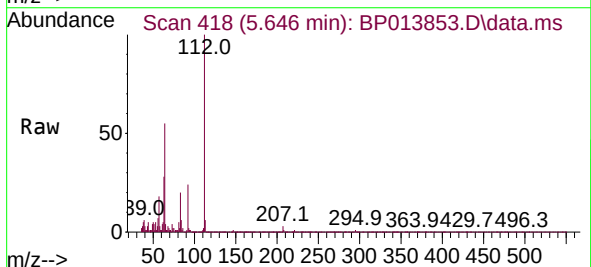
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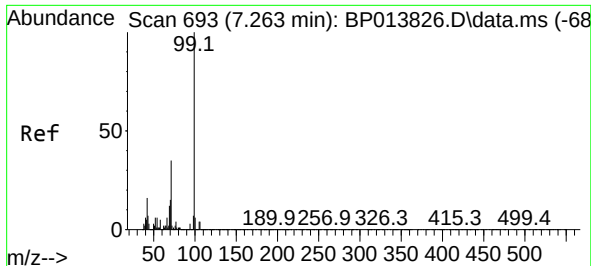
Reviewed By :Yogesh Patel 02/20/2023  
Supervised By :Jagrut Upadhyay 02/20/2023



#5  
2-Fluorophenol  
Concen: 5.003 ng  
RT: 5.646 min Scan# 418  
Delta R.T. 0.000 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

Tgt Ion:112 Resp: 43223  
Ion Ratio Lower Upper  
112 100  
64 54.9 44.6 66.8  
63 28.1 23.6 35.4





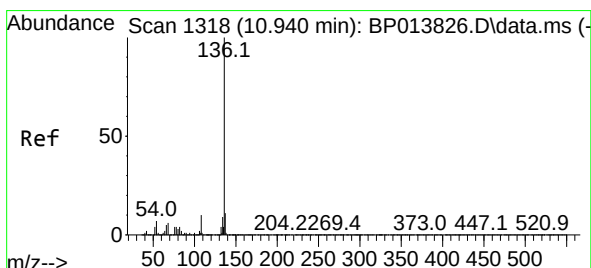
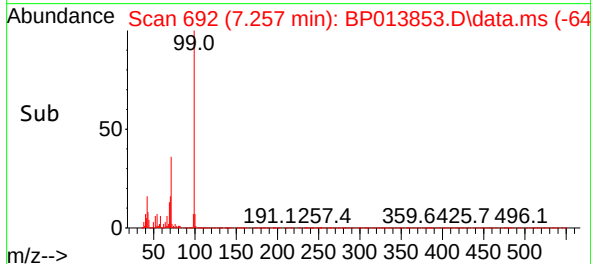
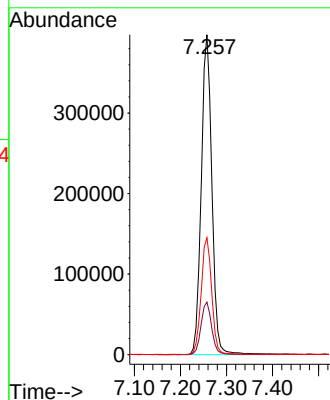
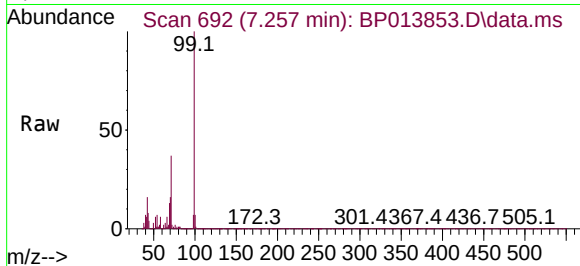
#7  
Phenol-d6  
Concen: 57.242 ng  
RT: 7.257 min Scan# 69  
Delta R.T. -0.006 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

Instrument :  
BNA\_P  
ClientSampleId :  
COMP-4

Tgt Ion: 99 Resp: 633354  
Ion Ratio Lower Upper  
99 100  
42 16.4 12.5 18.7  
71 36.5 27.8 41.8

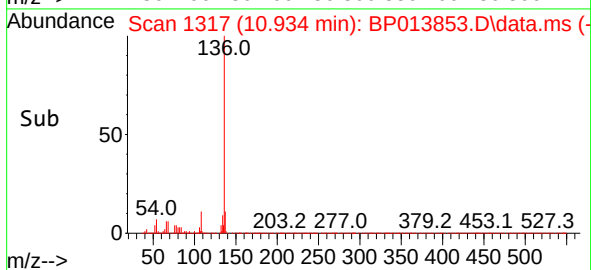
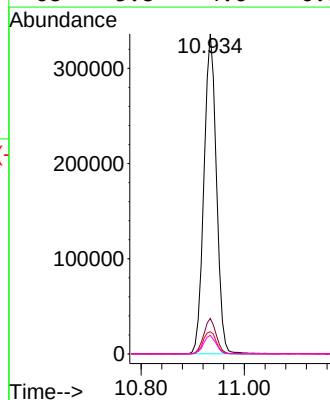
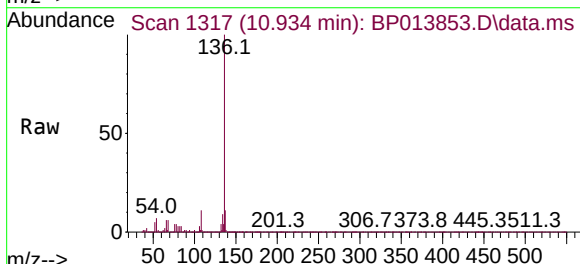
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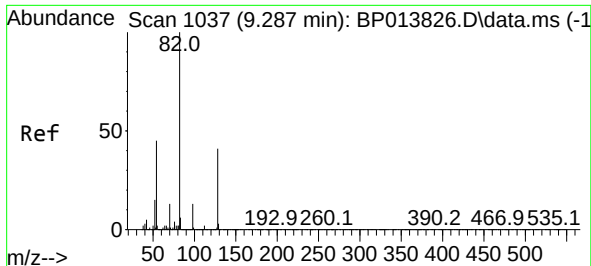
Reviewed By :Yogesh Patel 02/20/2023  
Supervised By :Jagrut Upadhyay 02/20/2023



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.934 min Scan# 1317  
Delta R.T. -0.006 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

Tgt Ion:136 Resp: 562769  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.5 12.7  
54 6.9 5.8 8.6  
68 5.8 4.6 6.8





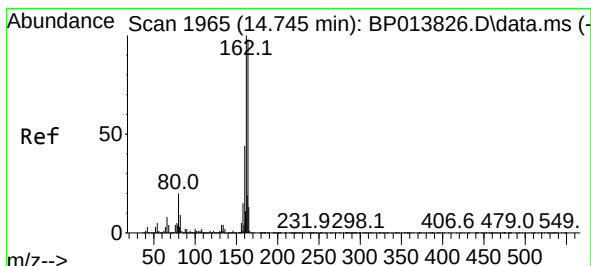
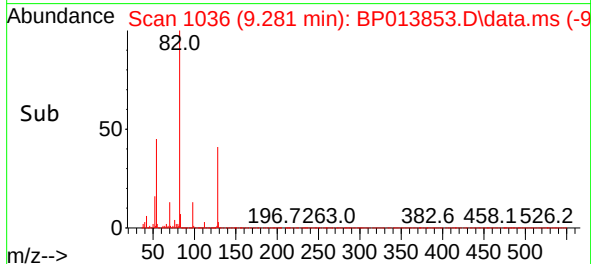
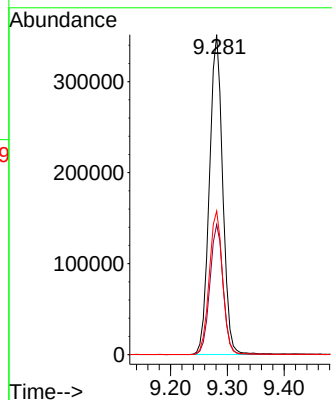
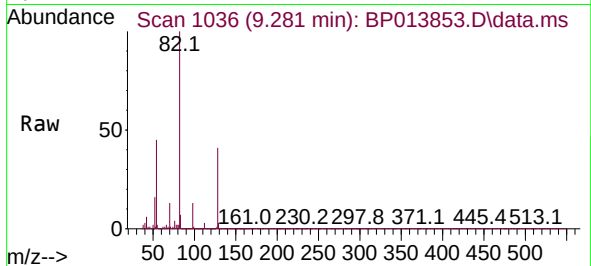
#23  
Nitrobenzene-d5  
Concen: 55.103 ng  
RT: 9.281 min Scan# 1036  
Delta R.T. -0.006 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

Instrument :  
BNA\_P  
ClientSampleId :  
COMP-4

Tgt Ion: 82 Resp: 574265  
Ion Ratio Lower Upper  
82 100  
128 40.6 32.9 49.3  
54 44.9 35.6 53.4

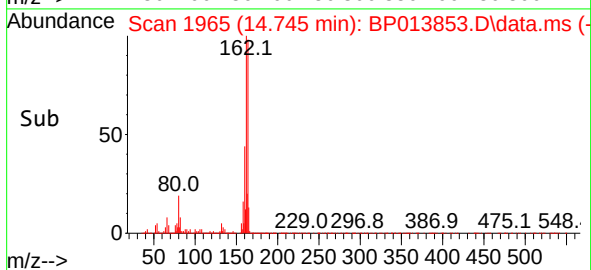
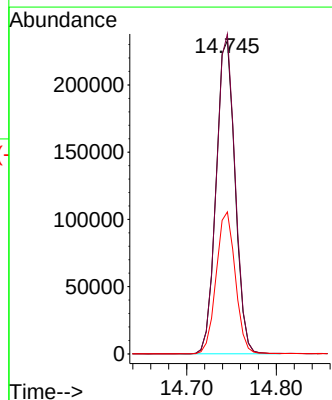
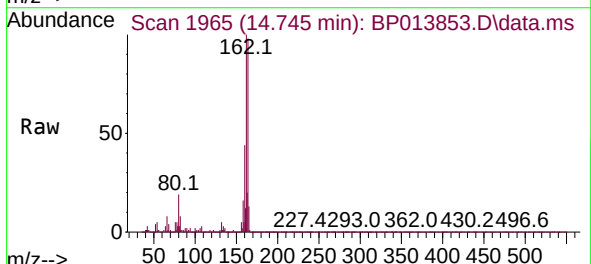
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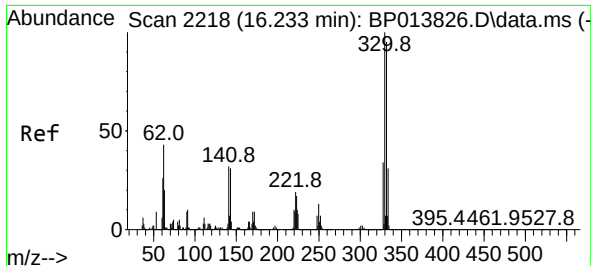
Reviewed By :Yogesh Patel 02/20/2023  
Supervised By :Jagrut Upadhyay 02/20/2023



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.745 min Scan# 1965  
Delta R.T. 0.000 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

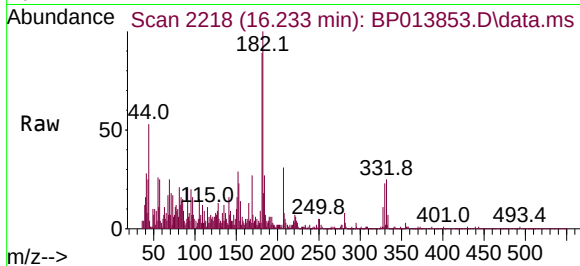
Tgt Ion:164 Resp: 343040  
Ion Ratio Lower Upper  
164 100  
162 102.1 81.7 122.5  
160 45.3 36.1 54.1





#42  
2,4,6-Tribromophenol  
Concen: 0.267 ng  
RT: 16.233 min Scan# 2218  
Delta R.T. 0.000 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

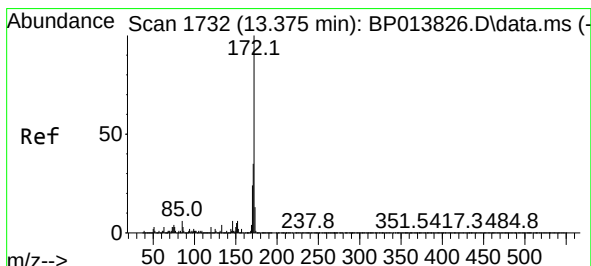
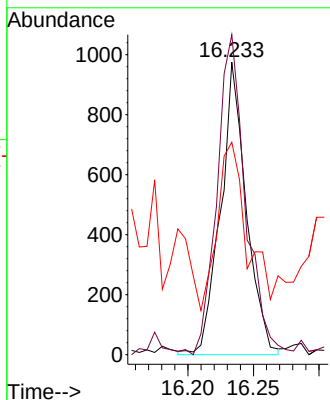
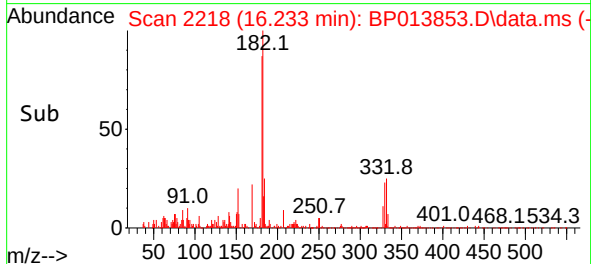
Instrument :  
BNA\_P  
ClientSampleId :  
COMP-4



Tgt Ion: 330 Resp: 1334  
Ion Ratio Lower Upper  
330 100  
332 118.8 76.7 115.1  
141 70.2 25.1 37.7

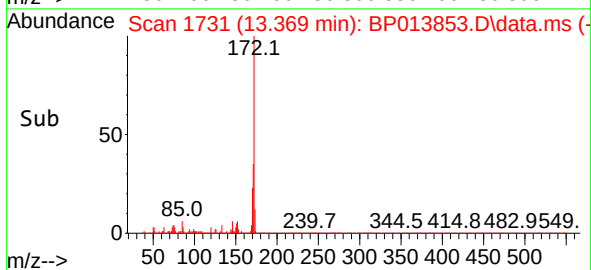
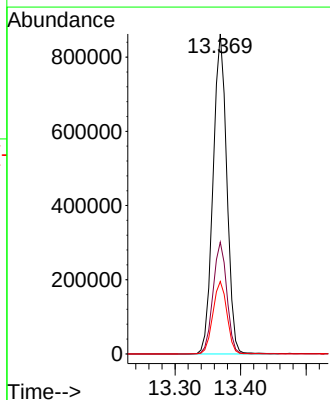
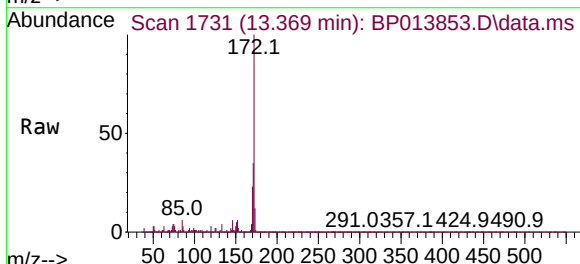
Manual Integrations  
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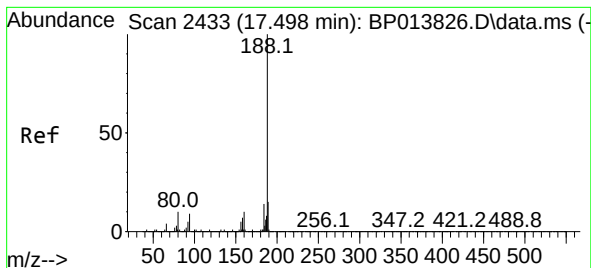
Reviewed By :Yogesh Patel 02/20/2023  
Supervised By :Jagrut Upadhyay 02/20/2023



#45  
2-Fluorobiphenyl  
Concen: 48.129 ng  
RT: 13.369 min Scan# 1731  
Delta R.T. -0.006 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

Tgt Ion: 172 Resp: 1256988  
Ion Ratio Lower Upper  
172 100  
171 34.9 28.2 42.4  
170 22.6 19.0 28.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.498 min Scan# 2433

Delta R.T. 0.000 min

Lab File: BP013853.D

Acq: 17 Feb 2023 19:41

Instrument :

BNA\_P

ClientSampleId :

COMP-4

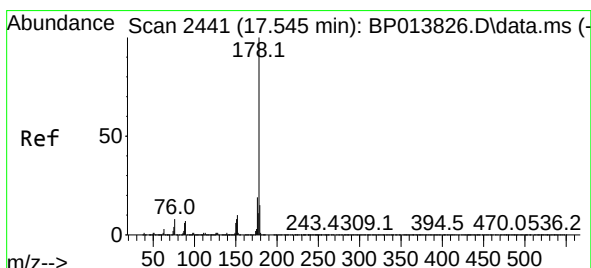
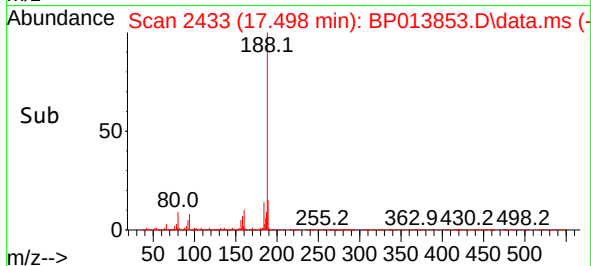
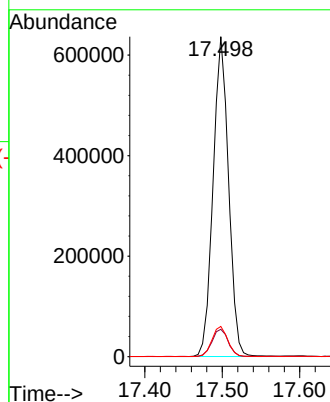
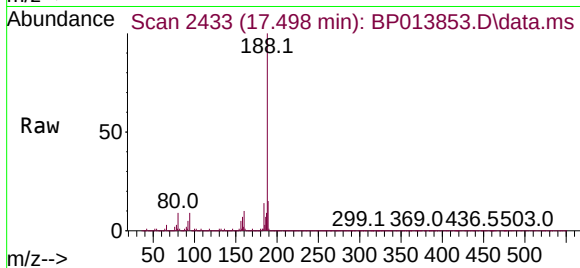
|             |             |
|-------------|-------------|
| Tgt Ion:188 | Resp: 88313 |
| Ion Ratio   | Lower Upper |
| 188 100     |             |
| 94 8.5      | 7.0 10.6    |
| 80 9.4      | 7.8 11.8    |

Manual Integrations

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Reviewed By :Yogesh Patel 02/20/2023

Supervised By :Jagrut Upadhyay 02/20/2023



#71

Phenanthrene

Concen: 6.612 ng

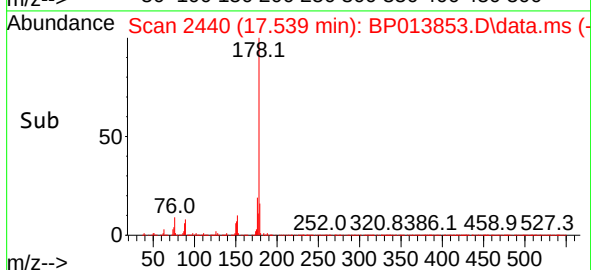
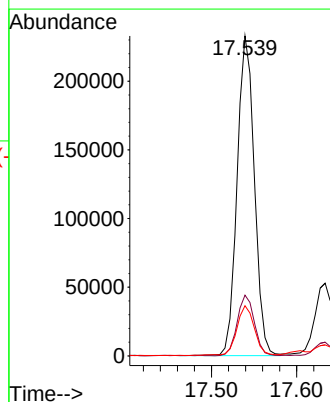
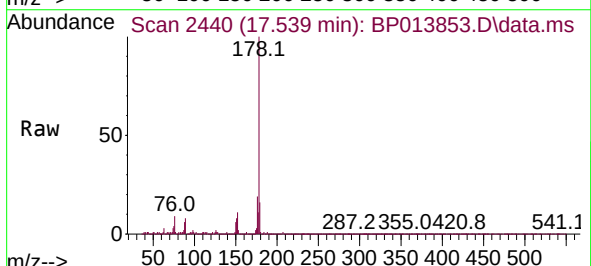
RT: 17.539 min Scan# 2440

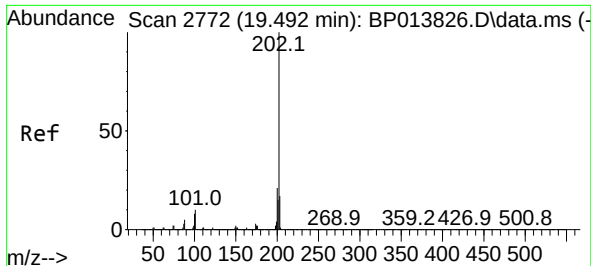
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Lab File: BP013853.D

Acq: 17 Feb 2023 19:41

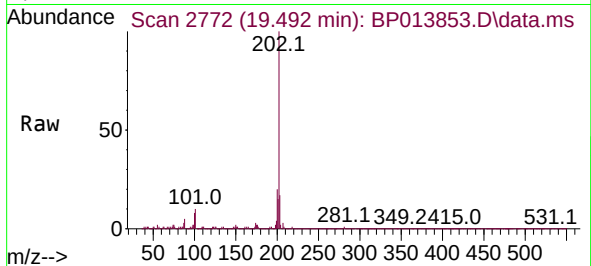
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|-------------|--------------|
| Tgt Ion:178 | Resp: 327129 |
| Ion Ratio   | Lower Upper  |
| 178 100     |              |
| 176 19.0    | 15.4 23.0    |
| 179 15.7    | 12.2 18.4    |





#75  
Fluoranthene  
Concen: 9.495 ng  
RT: 19.492 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

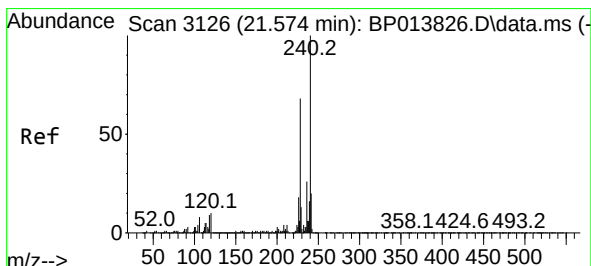
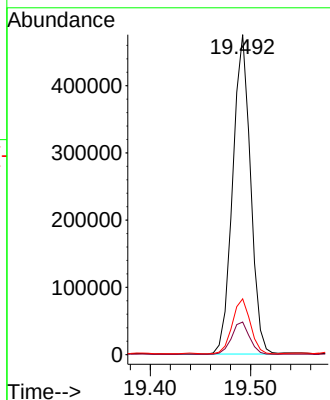
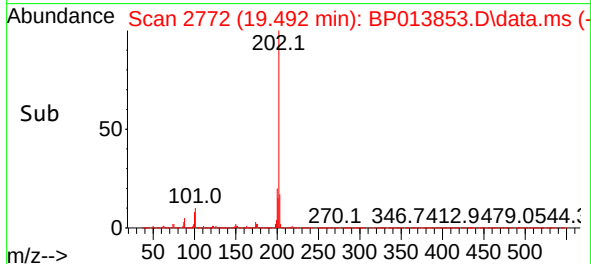
Instrument :  
BNA\_P  
ClientSampleId :  
COMP-4



Tgt Ion:202 Resp: 585642  
Ion Ratio Lower Upper  
202 100  
101 10.2 0.0 30.0  
203 17.4 0.0 37.5

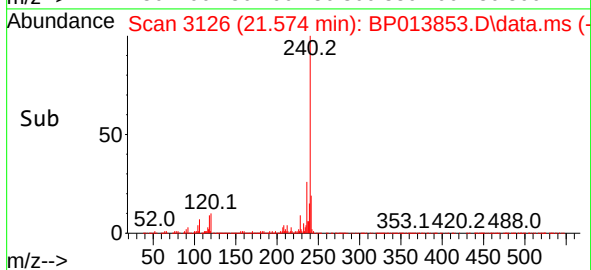
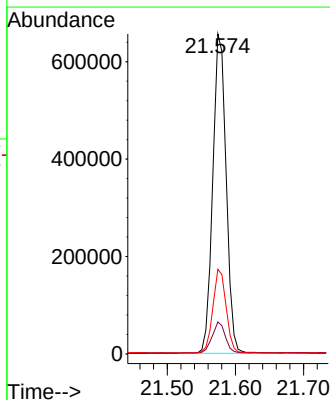
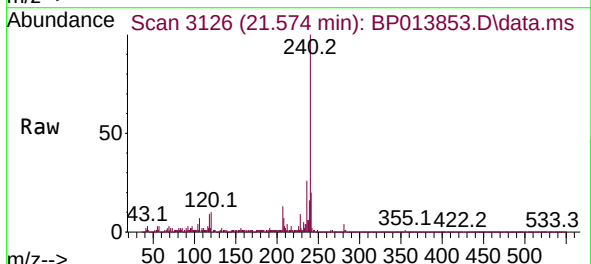
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 02/20/2023  
Supervised By :Jagrut Upadhyay 02/20/2023

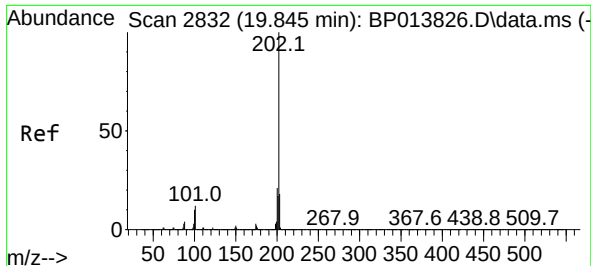


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.574 min Scan# 3126  
Delta R.T. 0.000 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

Tgt Ion:240 Resp: 892021  
Ion Ratio Lower Upper  
240 100  
120 10.0 7.9 11.9  
236 26.4 20.9 31.3

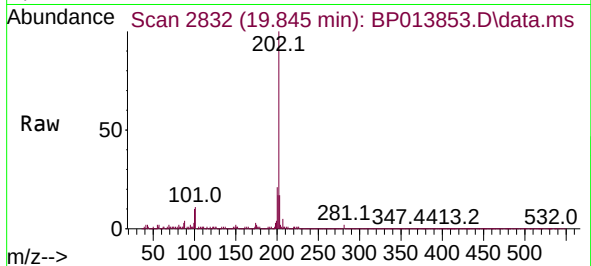






#78  
Pyrene  
Concen: 8.606 ng  
RT: 19.845 min Scan# 2832  
Delta R.T. 0.000 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

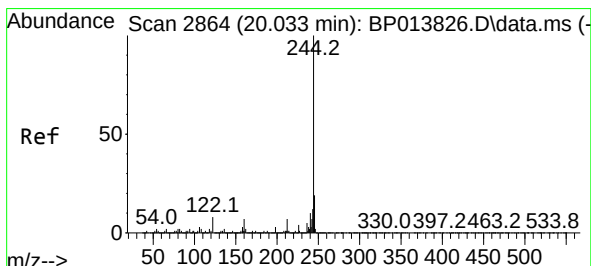
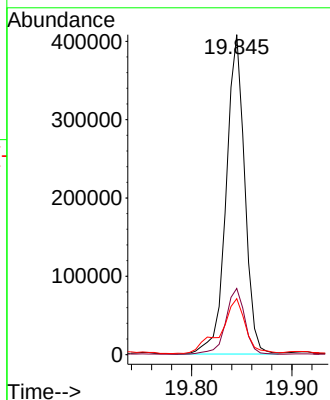
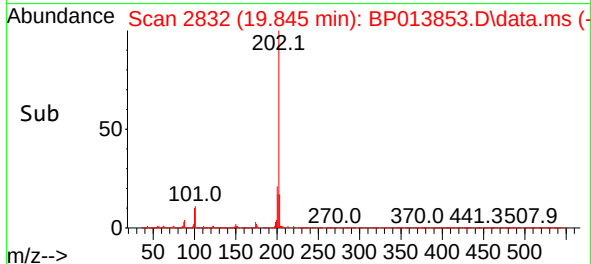
Instrument :  
BNA\_P  
ClientSampleId :  
COMP-4



Tgt Ion:202 Resp: 524579  
Ion Ratio Lower Upper  
202 100  
200 20.7 16.9 25.3  
203 17.5 14.2 21.2

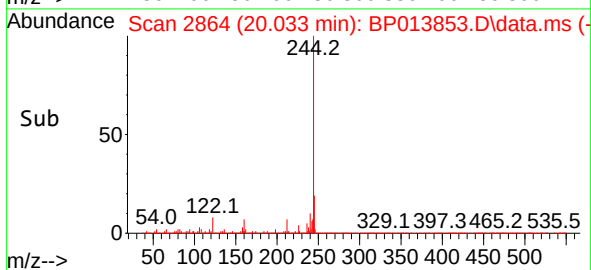
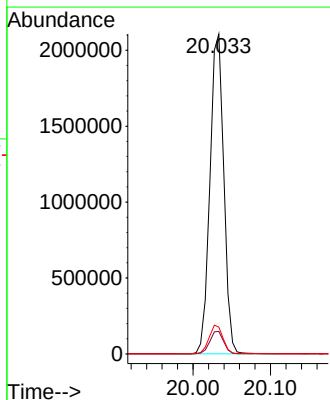
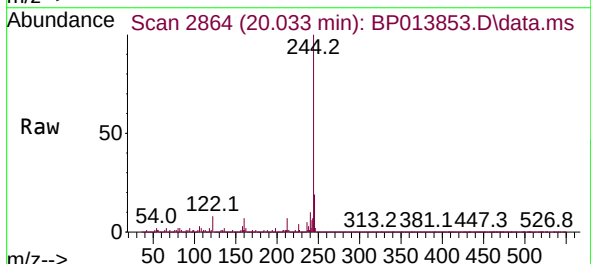
Manual Integrations  
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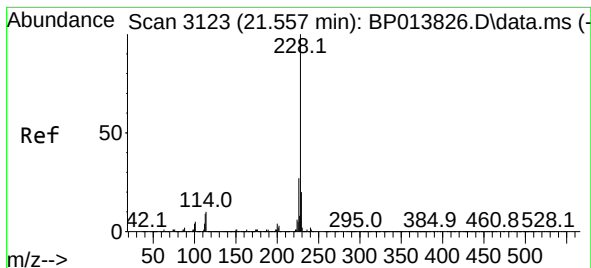
Reviewed By :Yogesh Patel 02/20/2023  
Supervised By :Jagrut Upadhyay 02/20/2023



#79  
Terphenyl-d14  
Concen: 56.381 ng  
RT: 20.033 min Scan# 2864  
Delta R.T. 0.000 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

Tgt Ion:244 Resp: 2613974  
Ion Ratio Lower Upper  
244 100  
212 7.0 5.8 8.6  
122 8.4 6.7 10.1





#81

Benzo(a)anthracene

Concen: 4.677 ng

RT: 21.563 min Scan# 3124

Delta R.T. 0.006 min

Lab File: BP013853.D

Acq: 17 Feb 2023 19:41

Instrument :

BNA\_P

ClientSampleId :

COMP-4

Tgt Ion:228 Resp: 298726

Ion Ratio Lower Upper

228 100

226 28.4 21.7 32.5

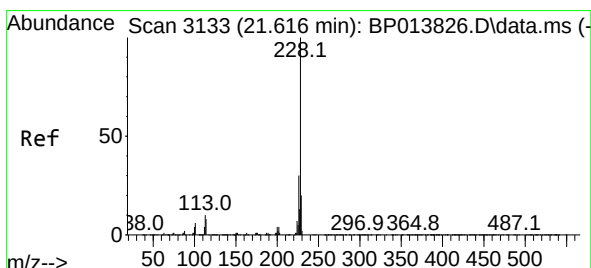
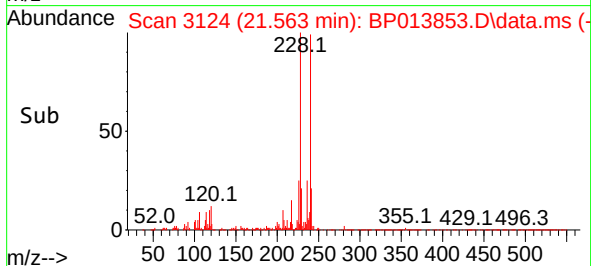
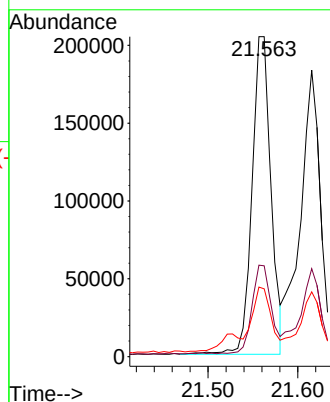
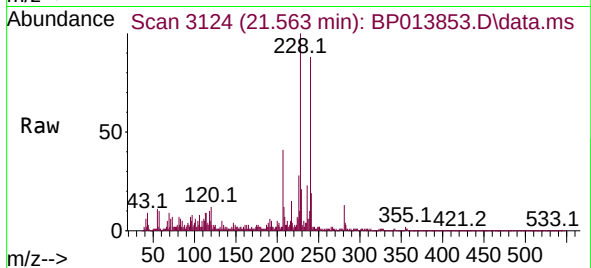
229 21.2 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/20/2023

Supervised By :Jagrut Upadhyay 02/20/2023



#83

Chrysene

Concen: 4.622 ng m

RT: 21.616 min Scan# 3133

Delta R.T. 0.000 min

Lab File: BP013853.D

Acq: 17 Feb 2023 19:41

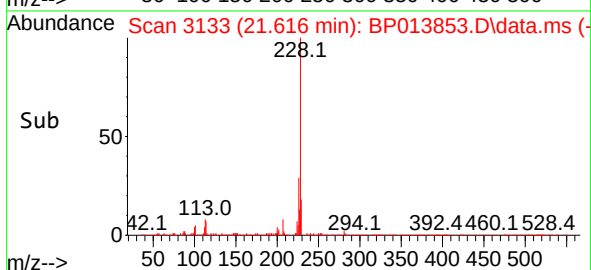
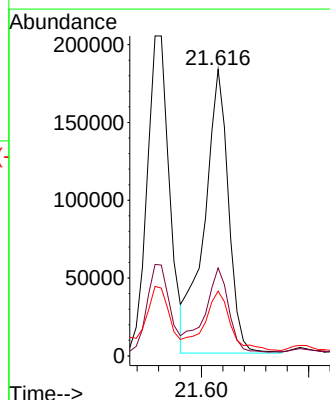
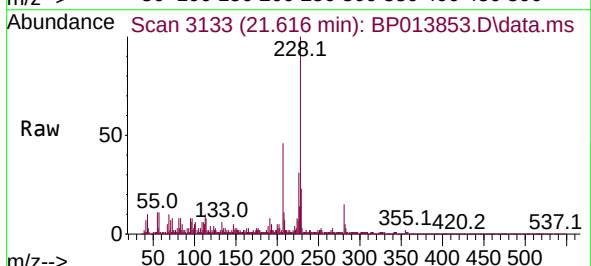
Tgt Ion:228 Resp: 286024

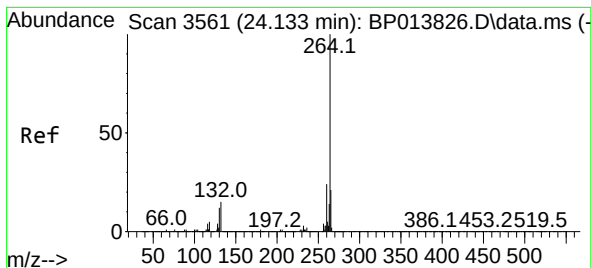
Ion Ratio Lower Upper

228 100

226 30.7 23.8 35.8

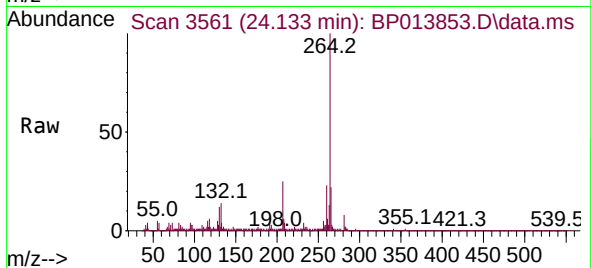
229 22.6 15.8 23.6





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.133 min Scan# 3561  
Delta R.T. 0.000 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

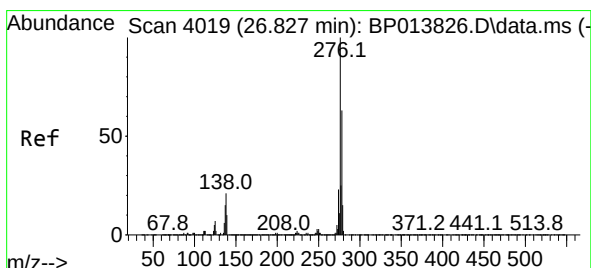
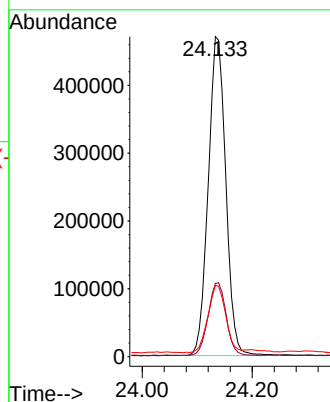
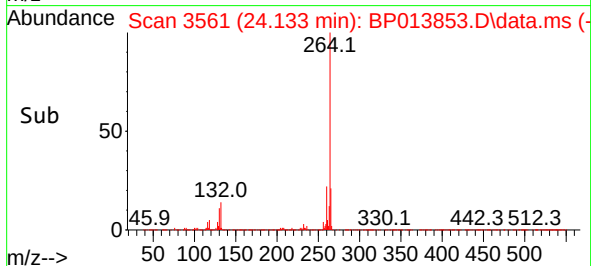
Instrument :  
BNA\_P  
ClientSampleId :  
COMP-4



Tgt Ion:264 Resp: 1040775  
Ion Ratio Lower Upper  
264 100  
260 22.9 19.4 29.0  
265 22.2 17.6 26.4

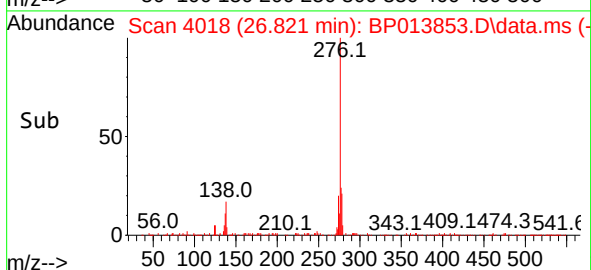
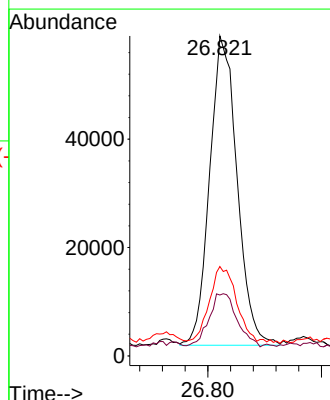
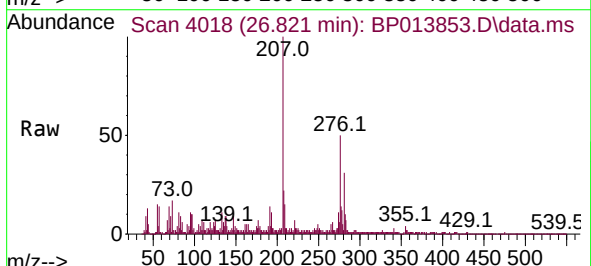
Manual Integrations  
APPROVED

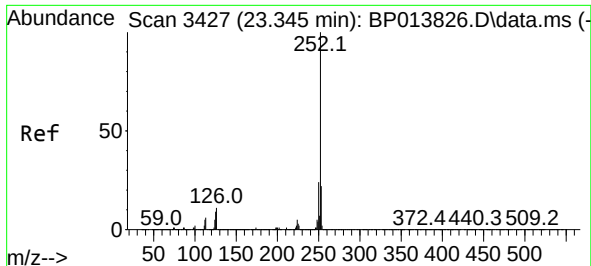
Reviewed By :Yogesh Patel 02/20/2023  
Supervised By :Jagrut Upadhyay 02/20/2023



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.362 ng  
RT: 26.821 min Scan# 4018  
Delta R.T. -0.006 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

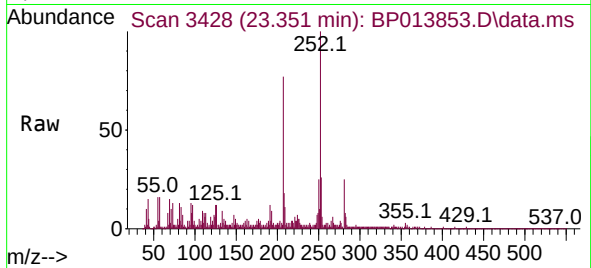
Tgt Ion:276 Resp: 191223  
Ion Ratio Lower Upper  
276 100  
138 17.6 17.8 26.8#  
277 25.3 20.2 30.2





#88  
Benzo(b)fluoranthene  
Concen: 5.548 ng  
RT: 23.351 min Scan# 3427  
Delta R.T. 0.006 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

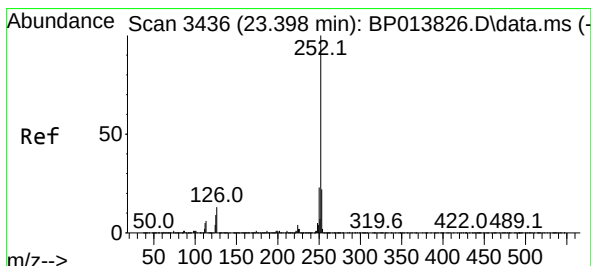
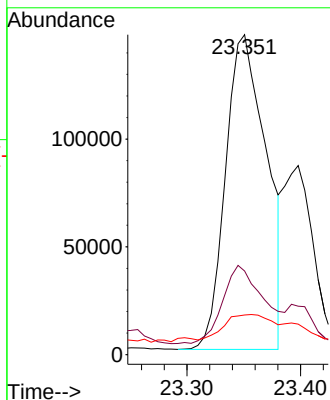
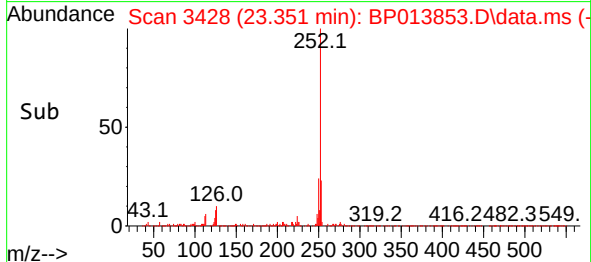
Instrument :  
BNA\_P  
ClientSampleId :  
COMP-4



Tgt Ion:252 Resp: 365174  
Ion Ratio Lower Upper  
252 100  
253 26.1 17.8 26.6  
125 12.4 7.1 10.7

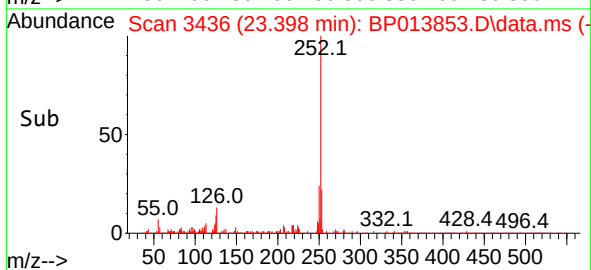
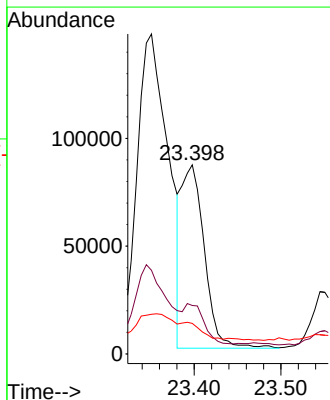
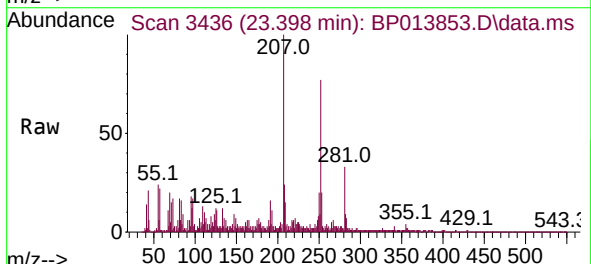
Manual Integrations  
APPROVED

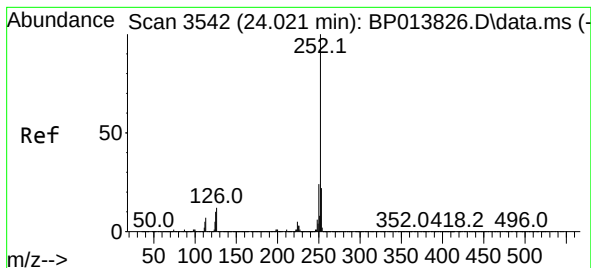
Reviewed By :Yogesh Patel 02/20/2023  
Supervised By :Jagrut Upadhyay 02/20/2023



#89  
Benzo(k)fluoranthene  
Concen: 2.334 ng m  
RT: 23.398 min Scan# 3436  
Delta R.T. 0.000 min  
Lab File: BP013853.D  
Acq: 17 Feb 2023 19:41

Tgt Ion:252 Resp: 155967  
Ion Ratio Lower Upper  
252 100  
253 25.6 17.5 26.3  
125 16.1 7.0 10.4





#90

Benzo(a)pyrene

Concen: 4.058 ng

RT: 24.015 min Scan# 3541

Delta R.T. -0.006 min

Lab File: BP013853.D

Acq: 17 Feb 2023 19:41

Instrument :

BNA\_P

ClientSampleId :

COMP-4

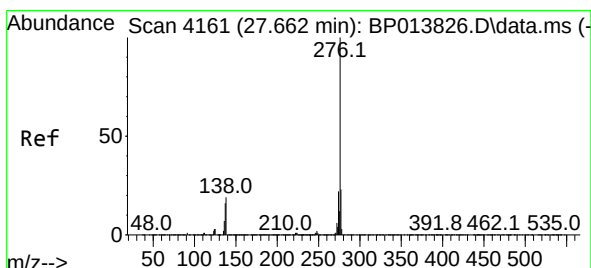
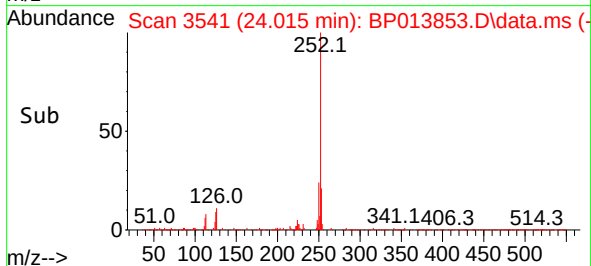
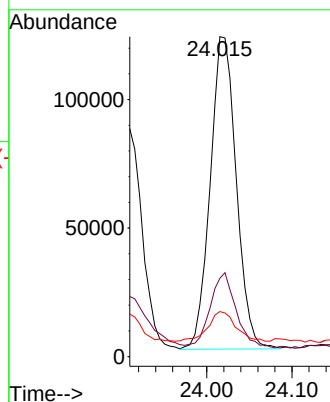
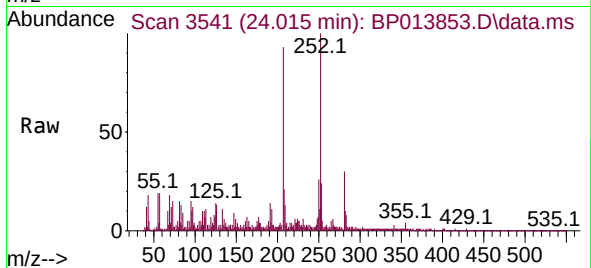
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 258260 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.5  | 17.4  | 26.0   |
| 125       | 14.1  | 7.7   | 11.5   |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/20/2023

Supervised By :Jagrut Upadhyay 02/20/2023



#92

Benzo(g,h,i)perylene

Concen: 2.854 ng

RT: 27.656 min Scan# 4160

Delta R.T. -0.006 min

Lab File: BP013853.D

Acq: 17 Feb 2023 19:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 191428 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 26.2  | 18.7  | 28.1   |
| 138       | 20.0  | 15.5  | 23.3   |

