

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP061424\  
 Data File : BP020627.D  
 Acq On : 14 Jun 2024 16:04  
 Operator : MA/JU  
 Sample : P2889-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 WCS-TPJ

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/17/2024  
 Supervised By :mohammad ahmed 06/18/2024

Quant Time: Jun 14 16:33:50 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP052924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 30 03:41:03 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.752  | 152  | 194064   | 20.000  | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.522 | 136  | 748510   | 20.000  | ng    | -0.01    |
| 39) Acenaphthene-d10        | 14.375 | 164  | 520827   | 20.000  | ng    | -0.02    |
| 64) Phenanthrene-d10        | 17.187 | 188  | 1175688  | 20.000  | ng    | -0.02    |
| 76) Chrysene-d12            | 21.633 | 240  | 1134752  | 20.000  | ng    | -0.04    |
| 86) Perylene-d12            | 24.974 | 264  | 1338750  | 20.000  | ng    | -0.05    |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.375  | 112  | 1335853  | 123.247 | ng    | 0.00     |
| 7) Phenol-d6                | 6.934  | 99   | 1717204  | 112.342 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.899  | 82   | 1028446  | 75.212  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 15.892 | 330  | 920889   | 170.372 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 12.993 | 172  | 2728438  | 78.094  | ng    | -0.01    |
| 79) Terphenyl-d14           | 19.916 | 244  | 5013373  | 73.548  | ng    | -0.03    |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 17.228 | 178  | 174704   | 3.023   | ng    | 98       |
| 75) Fluoranthene            | 19.316 | 202  | 571554   | 8.359   | ng    | 100      |
| 78) Pyrene                  | 19.692 | 202  | 535944   | 6.279   | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.616 | 228  | 308400   | 4.128   | ng    | 96       |
| 83) Chrysene                | 21.686 | 228  | 307731m  | 4.371   | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 28.768 | 276  | 249107   | 3.060   | ng    | # 94     |
| 88) Benzo(b)fluoranthene    | 23.916 | 252  | 454785   | 5.453   | ng    | 94       |
| 90) Benzo(a)pyrene          | 24.816 | 252  | 335795   | 4.862   | ng    | 95       |
| 92) Benzo(g,h,i)perylene    | 29.951 | 276  | 250235   | 3.687   | ng    | 96       |
| -----                       |        |      |          |         |       |          |

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

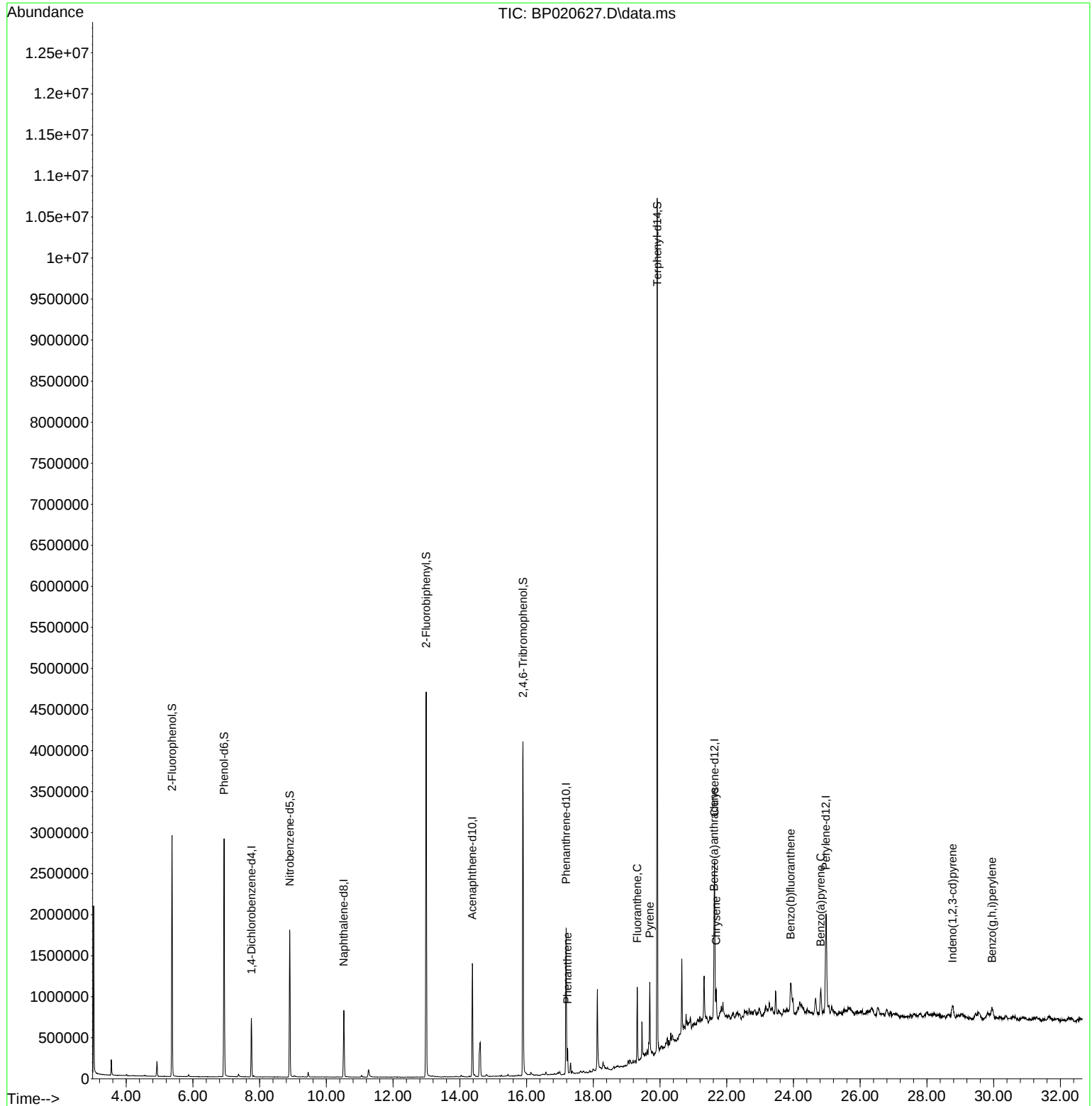
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP061424\  
Data File : BP020627.D  
Acq On : 14 Jun 2024 16:04  
Operator : MA/JU  
Sample : P2889-01  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

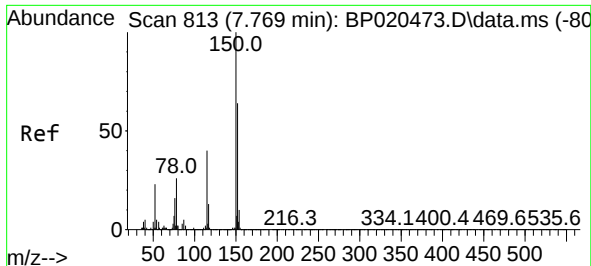
Instrument :  
BNA\_P  
ClientSampleId :  
WCS-TPJ

Quant Time: Jun 14 16:33:50 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP052924.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 30 03:41:03 2024  
Response via : Initial Calibration

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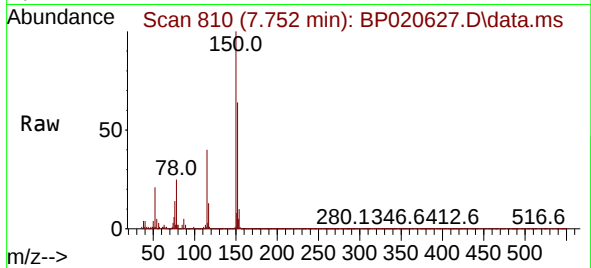
Reviewed By :Jagrut Upadhyay 06/17/2024  
Supervised By :mohammad ahmed 06/18/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.752 min Scan# 813  
Delta R.T. -0.017 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04

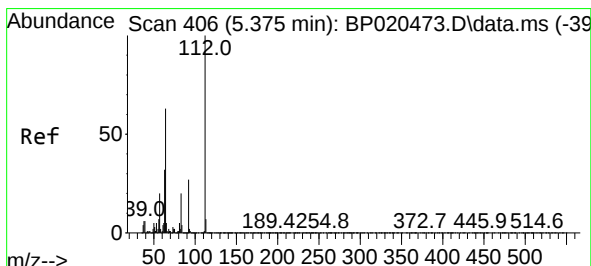
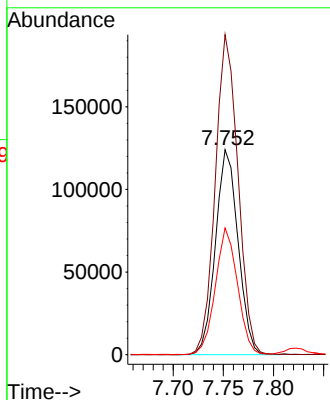
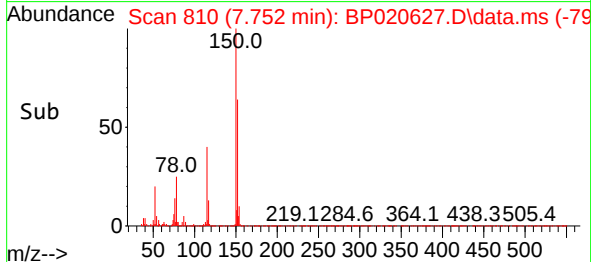
Instrument :  
BNA\_P  
ClientSampleId :  
WCS-TPJ



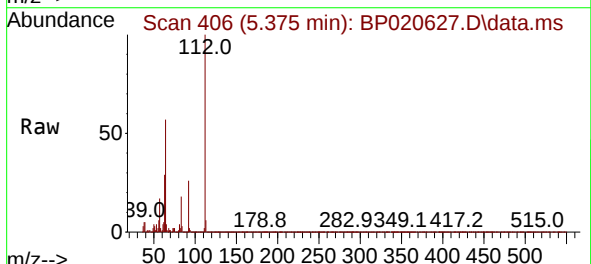
Tgt Ion:152 Resp: 194064  
Ion Ratio Lower Upper  
152 100  
150 156.1 124.2 186.2  
115 61.8 49.5 74.3

Manual Integrations  
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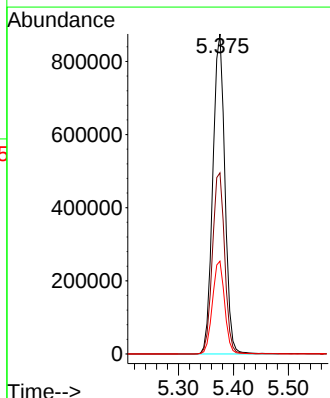
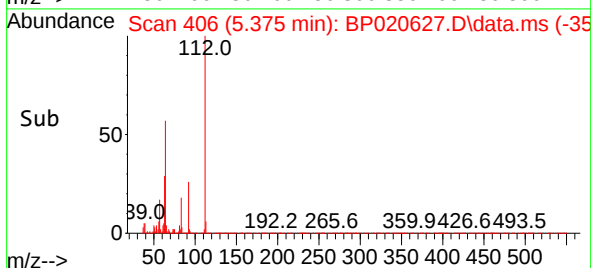
Reviewed By :Jagrut Upadhyay 06/17/2024  
Supervised By :mohammad ahmed 06/18/2024



#5  
2-Fluorophenol  
Concen: 123.247 ng  
RT: 5.375 min Scan# 406  
Delta R.T. 0.000 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04



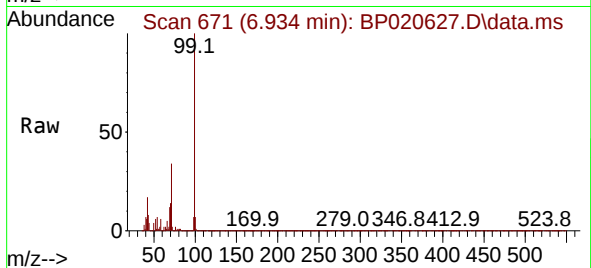
Tgt Ion:112 Resp: 1335853  
Ion Ratio Lower Upper  
112 100  
64 56.6 50.1 75.1  
63 29.0 25.7 38.5





#7  
Phenol-d6  
Concen: 112.342 ng  
RT: 6.934 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04

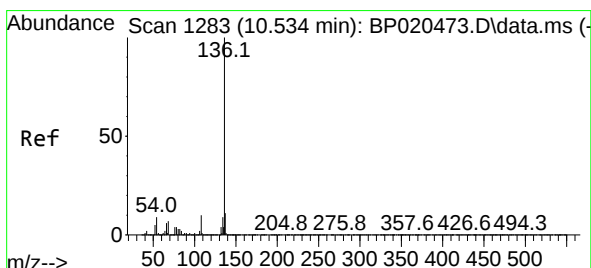
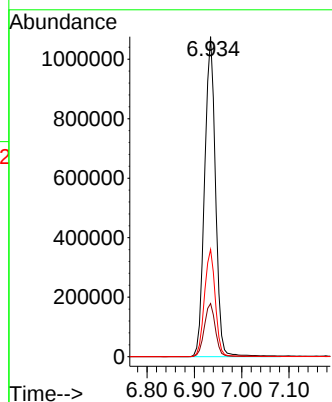
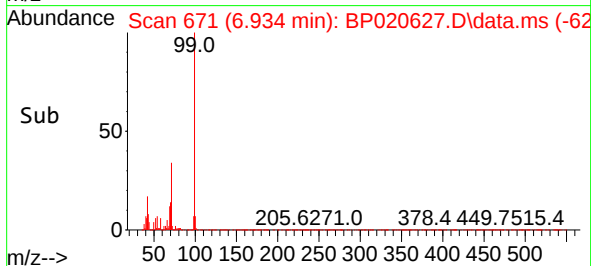
Instrument :  
BNA\_P  
ClientSampleId :  
WCS-TPJ



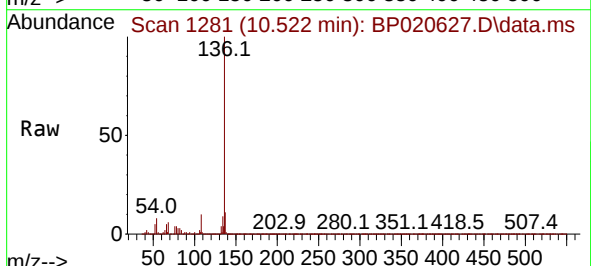
Tgt Ion: 99 Resp: 1717204  
Ion Ratio Lower Upper  
99 100  
42 16.6 15.0 22.4  
71 33.5 27.3 40.9

Manual Integrations  
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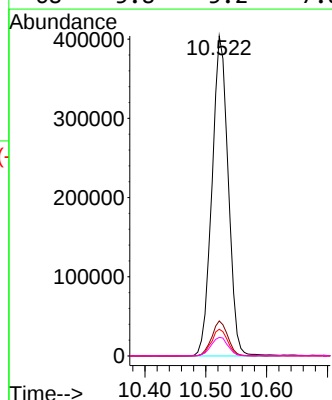
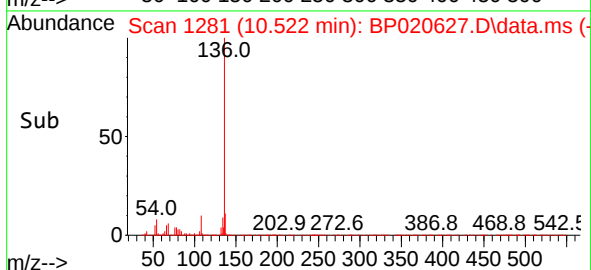
Reviewed By :Jagrut Upadhyay 06/17/2024  
Supervised By :mohammad ahmed 06/18/2024

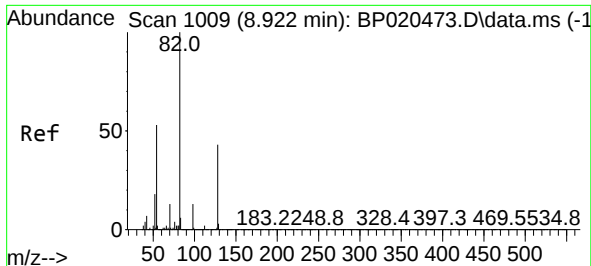


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.522 min Scan# 1281  
Delta R.T. -0.012 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04



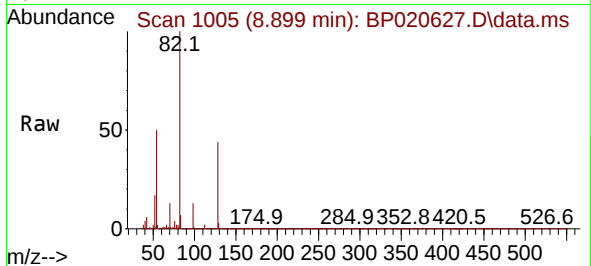
Tgt Ion:136 Resp: 748510  
Ion Ratio Lower Upper  
136 100  
137 11.0 9.0 13.4  
54 8.4 7.4 11.0  
68 5.8 5.2 7.8





#23  
Nitrobenzene-d5  
Concen: 75.212 ng  
RT: 8.899 min Scan# 1005  
Delta R.T. -0.023 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04

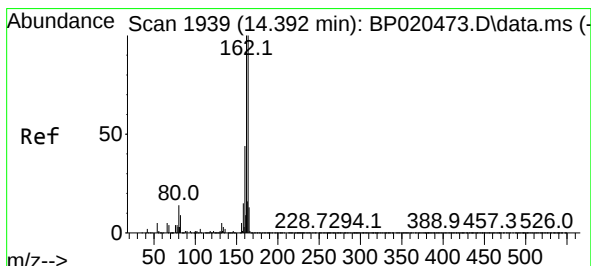
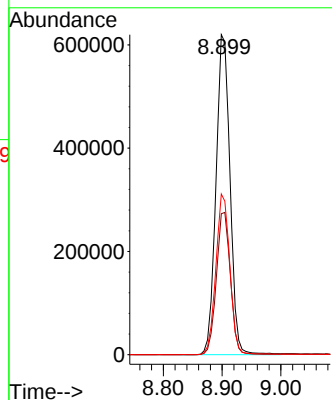
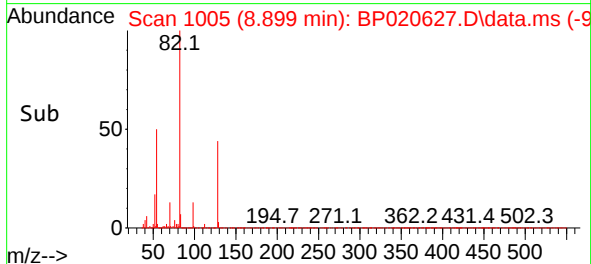
Instrument :  
BNA\_P  
ClientSampleId :  
WCS-TPJ



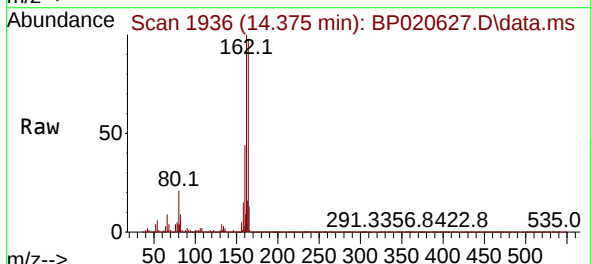
Tgt Ion: 82 Resp: 102844  
Ion Ratio Lower Upper  
82 100  
128 44.0 34.2 51.4  
54 50.2 42.7 64.1

Manual Integrations  
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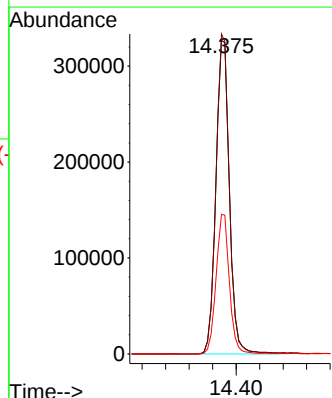
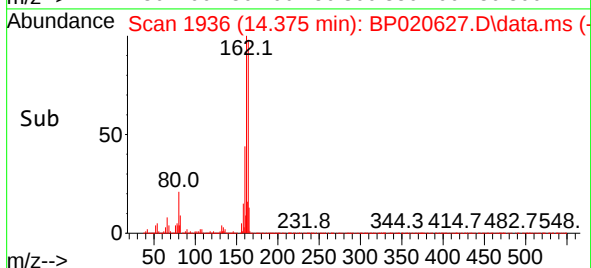
Reviewed By :Jagrut Upadhyay 06/17/2024  
Supervised By :mohammad ahmed 06/18/2024

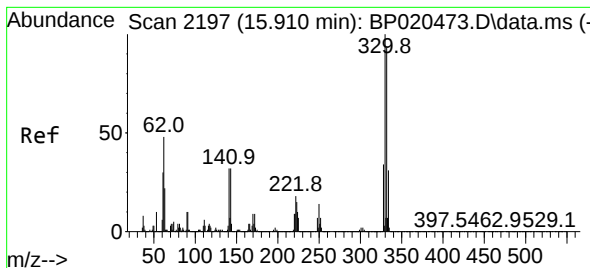


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.375 min Scan# 1936  
Delta R.T. -0.017 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04



Tgt Ion:164 Resp: 520827  
Ion Ratio Lower Upper  
164 100  
162 102.0 80.3 120.5  
160 44.5 35.4 53.2





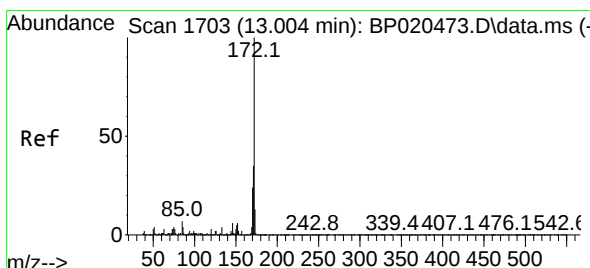
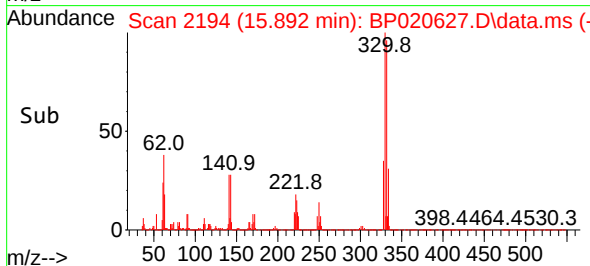
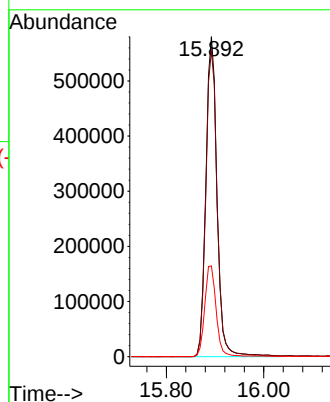
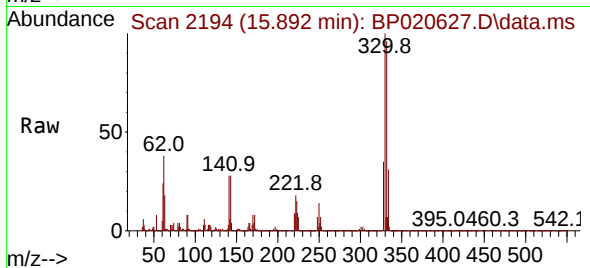
#42  
2,4,6-Tribromophenol  
Concen: 170.372 ng  
RT: 15.892 min Scan# 2197  
Delta R.T. -0.018 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04

Instrument :  
BNA\_P  
ClientSampleId :  
WCS-TPJ

Tgt Ion:330 Resp: 920889  
Ion Ratio Lower Upper  
330 100  
332 97.1 76.6 114.8  
141 28.9 27.1 40.7

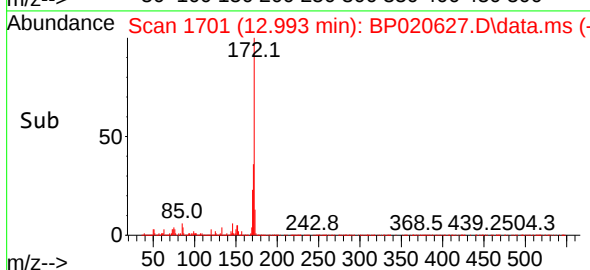
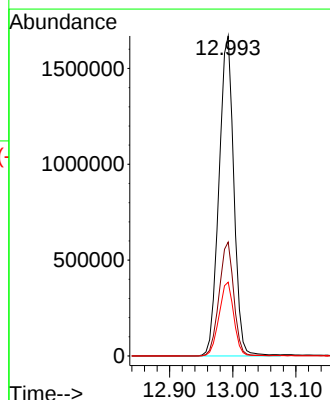
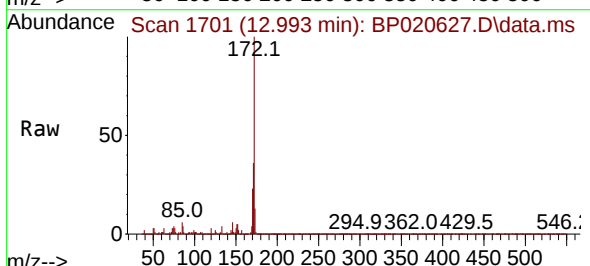
Manual Integrations  
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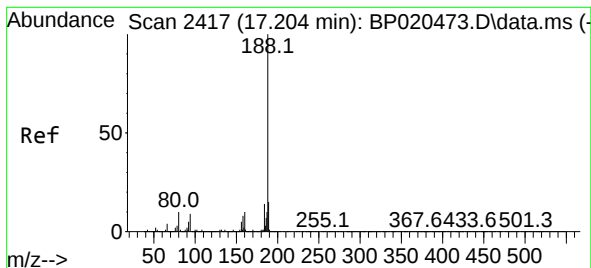
Reviewed By :Jagrut Upadhyay 06/17/2024  
Supervised By :mohammad ahmed 06/18/2024



#45  
2-Fluorobiphenyl  
Concen: 78.094 ng  
RT: 12.993 min Scan# 1701  
Delta R.T. -0.012 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04

Tgt Ion:172 Resp: 2728438  
Ion Ratio Lower Upper  
172 100  
171 35.6 28.4 42.6  
170 23.1 18.9 28.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.187 min Scan# 2414

Delta R.T. -0.018 min

Lab File: BP020627.D

Acq: 14 Jun 2024 16:04

Instrument :

BNA\_P

ClientSampleId :

WCS-TPJ

Tgt Ion:188 Resp: 117568

Ion Ratio Lower Upper

188 100

94 8.9 7.2 10.8

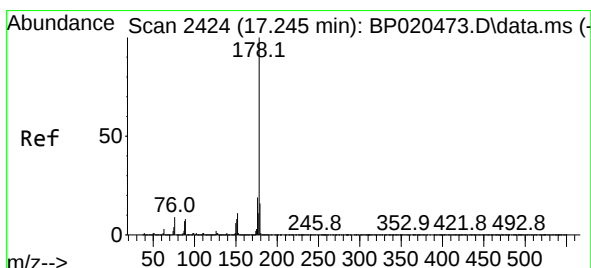
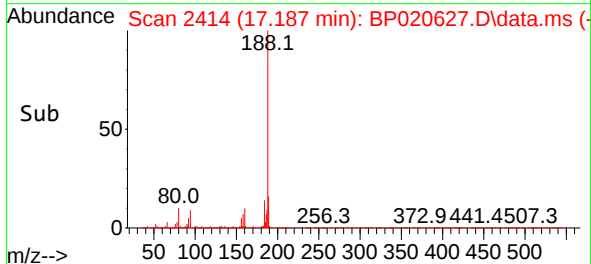
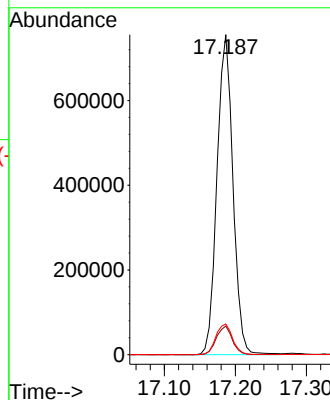
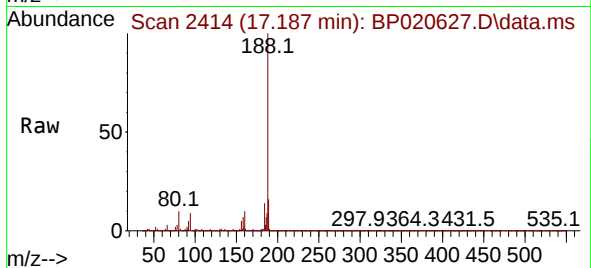
80 9.6 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/17/2024

Supervised By :mohammad ahmed 06/18/2024



#71

Phenanthrene

Concen: 3.023 ng

RT: 17.228 min Scan# 2421

Delta R.T. -0.018 min

Lab File: BP020627.D

Acq: 14 Jun 2024 16:04

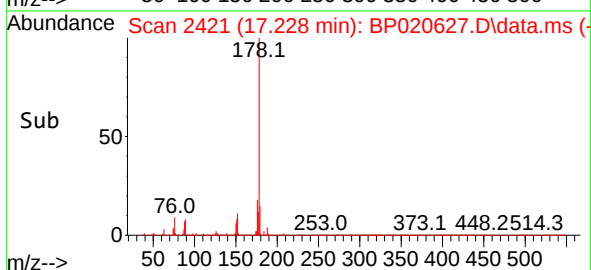
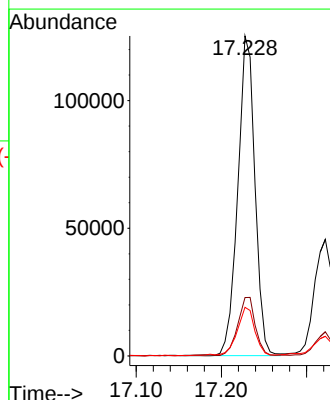
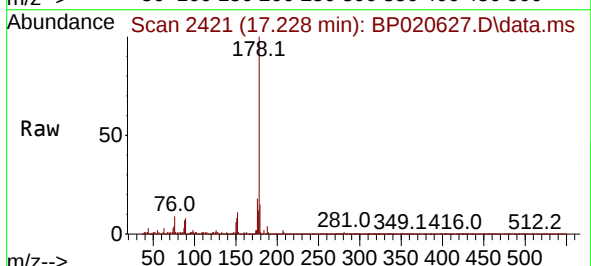
Tgt Ion:178 Resp: 174704

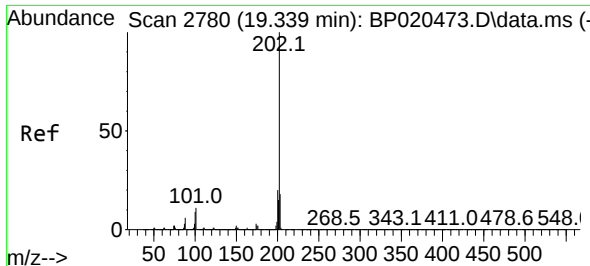
Ion Ratio Lower Upper

178 100

176 18.2 15.4 23.2

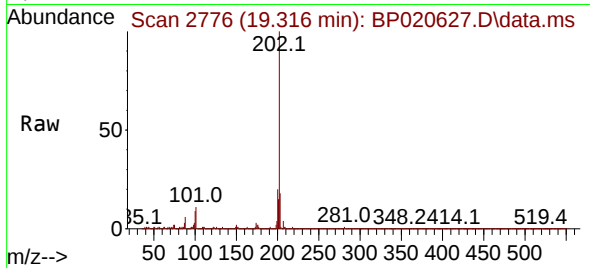
179 15.2 12.5 18.7





#75  
Fluoranthene  
Concen: 8.359 ng  
RT: 19.316 min Scan# 21  
Delta R.T. -0.023 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04

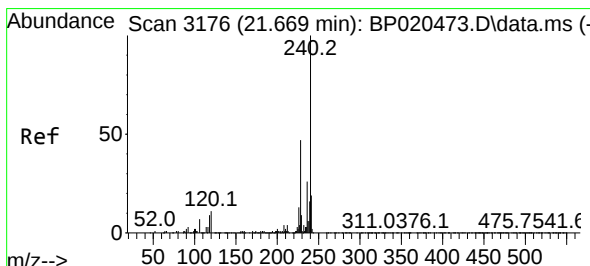
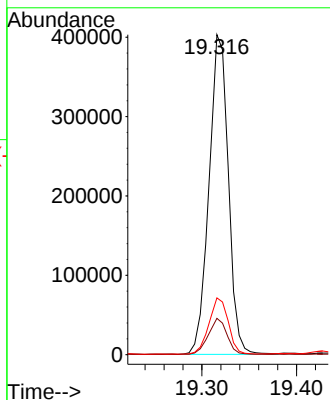
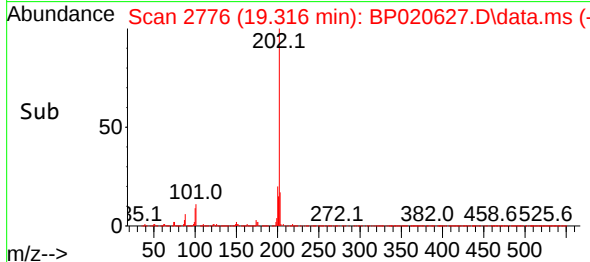
Instrument :  
BNA\_P  
ClientSampleId :  
WCS-TPJ



Tgt Ion:202 Resp: 571554  
Ion Ratio Lower Upper  
202 100  
101 11.4 0.0 31.4  
203 17.7 0.0 37.7

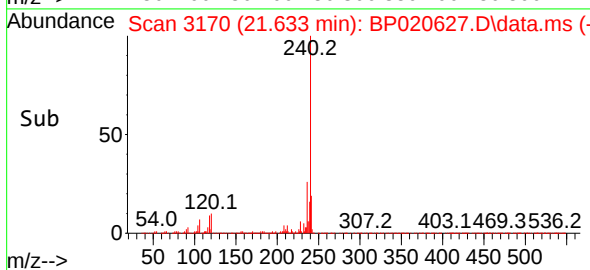
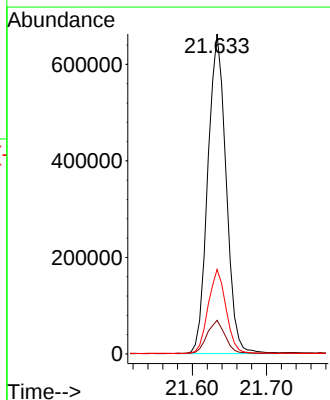
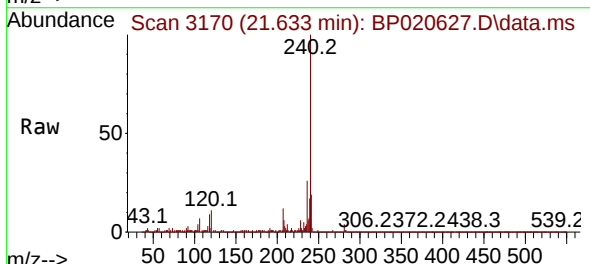
Manual Integrations  
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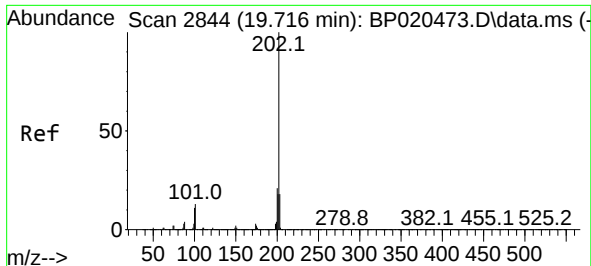
Reviewed By :Jagrut Upadhyay 06/17/2024  
Supervised By :mohammad ahmed 06/18/2024



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.633 min Scan# 3170  
Delta R.T. -0.035 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04

Tgt Ion:240 Resp: 1134752  
Ion Ratio Lower Upper  
240 100  
120 10.5 8.5 12.7  
236 26.4 20.5 30.7





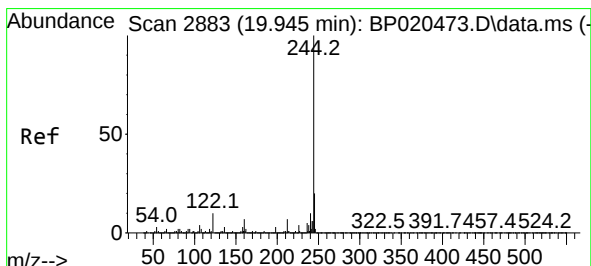
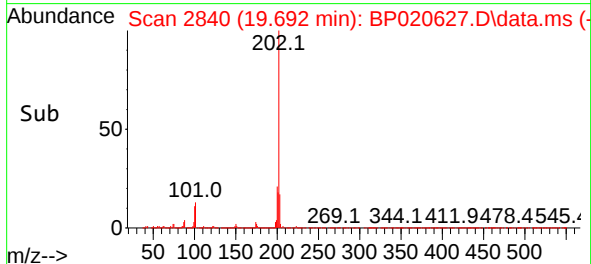
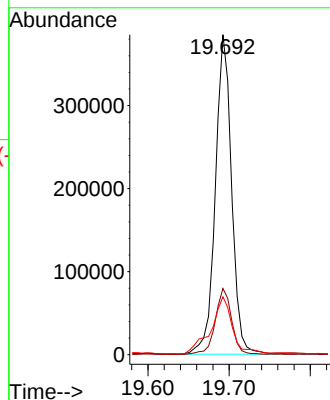
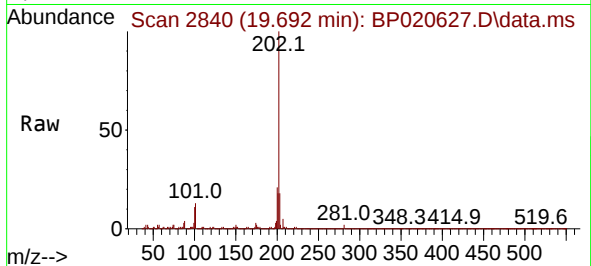
#78  
Pyrene  
Concen: 6.279 ng  
RT: 19.692 min Scan# 21  
Delta R.T. -0.023 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04

Instrument :  
BNA\_P  
ClientSampleId :  
WCS-TPJ

Tgt Ion:202 Resp: 535944  
Ion Ratio Lower Upper  
202 100  
200 20.7 16.9 25.3  
203 18.1 14.1 21.1

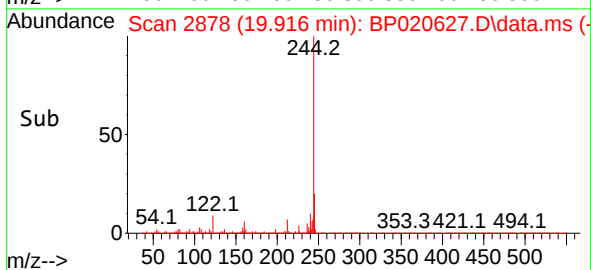
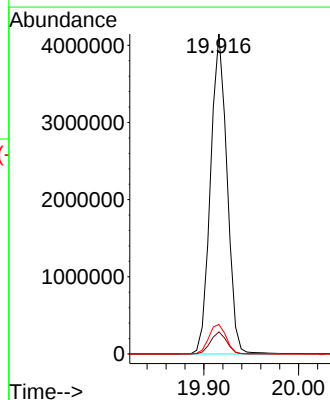
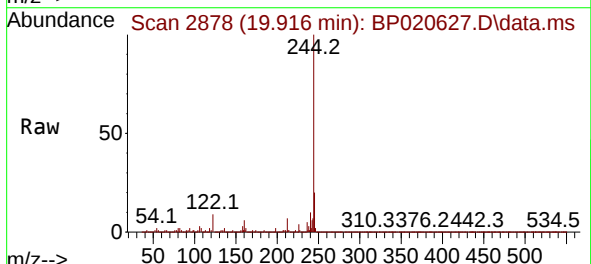
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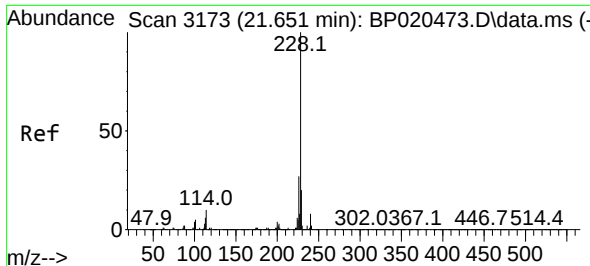
Reviewed By :Jagrut Upadhyay 06/17/2024  
Supervised By :mohammad ahmed 06/18/2024



#79  
Terphenyl-d14  
Concen: 73.548 ng  
RT: 19.916 min Scan# 2878  
Delta R.T. -0.029 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04

Tgt Ion:244 Resp: 5013373  
Ion Ratio Lower Upper  
244 100  
212 6.9 5.8 8.8  
122 9.2 8.2 12.2





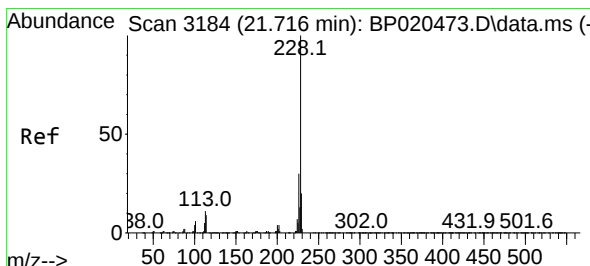
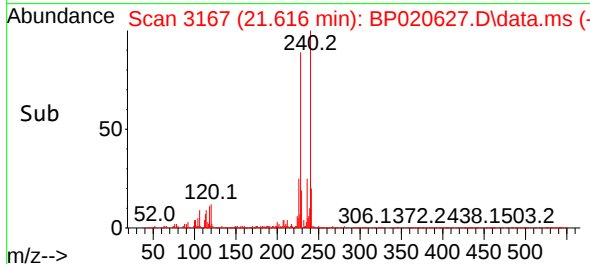
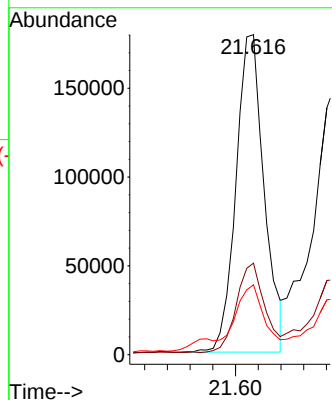
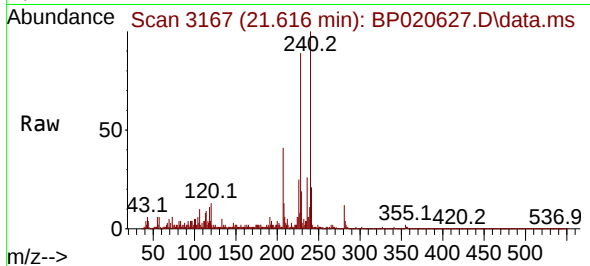
#81  
Benzo(a)anthracene  
Concen: 4.128 ng  
RT: 21.616 min Scan# 3173  
Delta R.T. -0.035 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04

Instrument :  
BNA\_P  
ClientSampleId :  
WCS-TPJ

Tgt Ion:228 Resp: 308400  
Ion Ratio Lower Upper  
228 100  
226 28.6 21.7 32.5  
229 21.9 15.8 23.6

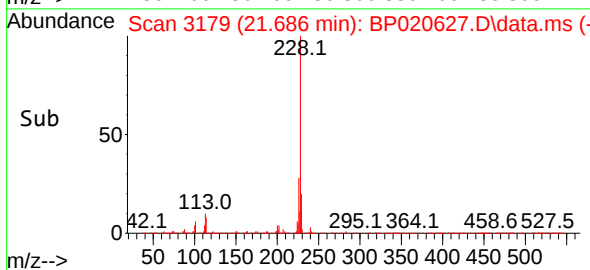
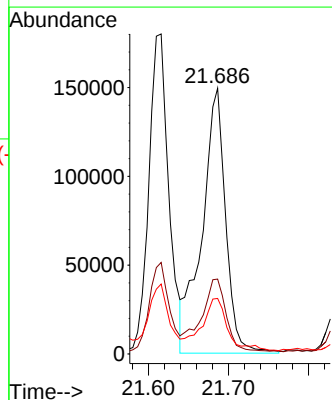
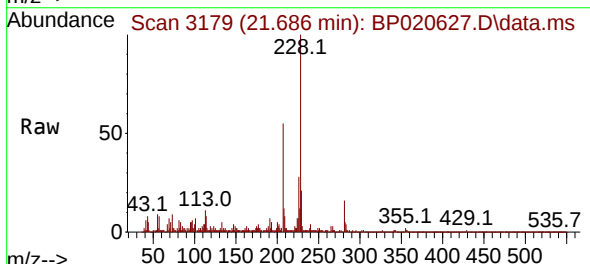
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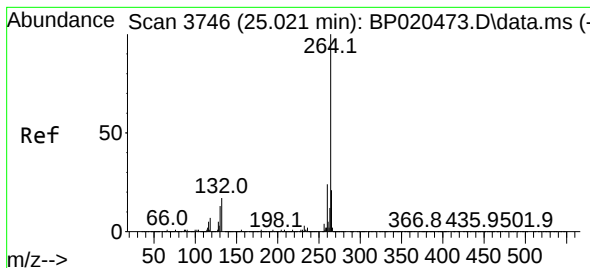
Reviewed By :Jagrut Upadhyay 06/17/2024  
Supervised By :mohammad ahmed 06/18/2024



#83  
Chrysene  
Concen: 4.371 ng m  
RT: 21.686 min Scan# 3179  
Delta R.T. -0.029 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04

Tgt Ion:228 Resp: 307731  
Ion Ratio Lower Upper  
228 100  
226 28.2 24.0 36.0  
229 20.9 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.974 min Scan# 31

Delta R.T. -0.047 min

Lab File: BP020627.D

Acq: 14 Jun 2024 16:04

Instrument :

BNA\_P

ClientSampleId :

WCS-TPJ

Tgt Ion:264 Resp: 1338750

Ion Ratio Lower Upper

264 100

260 23.4 18.9 28.3

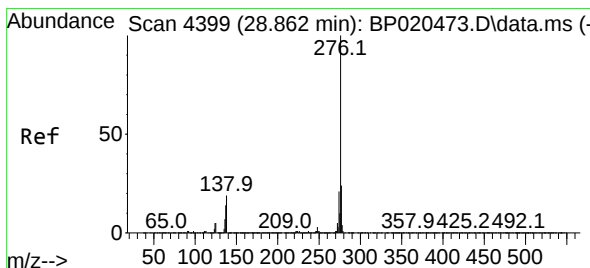
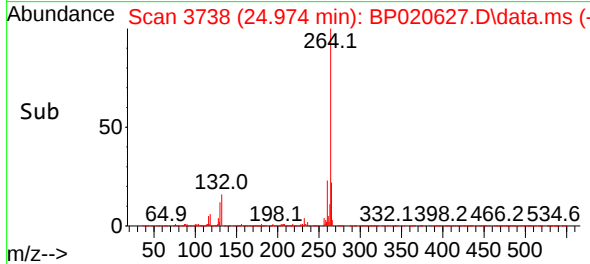
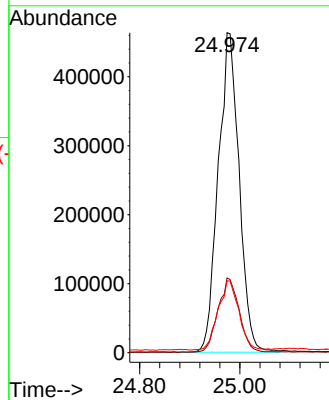
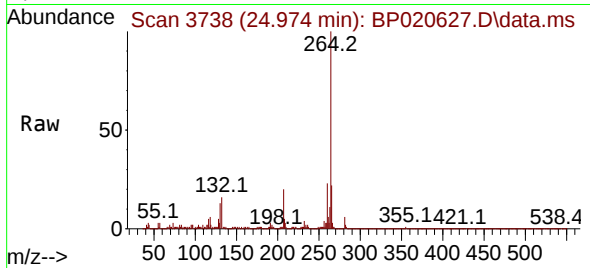
265 22.5 17.4 26.0

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Reviewed By :Jagrut Upadhyay 06/17/2024

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#87

Indeno(1,2,3-cd)pyrene

Concen: 3.060 ng

RT: 28.768 min Scan# 4383

Delta R.T. -0.094 min

Lab File: BP020627.D

Acq: 14 Jun 2024 16:04

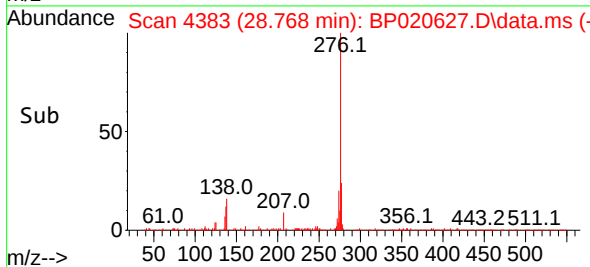
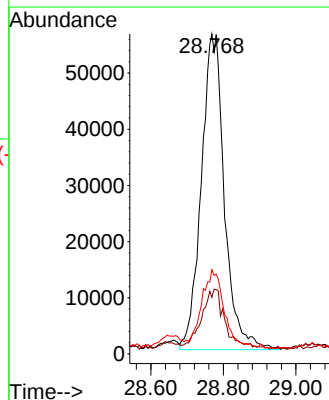
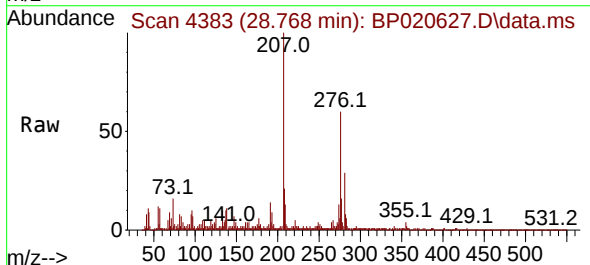
Tgt Ion:276 Resp: 249107

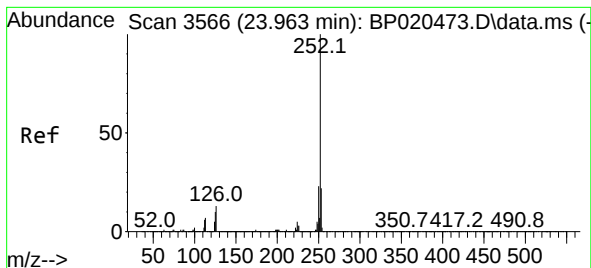
Ion Ratio Lower Upper

276 100

138 16.7 12.8 19.2

277 23.9 15.6 23.4#





#88

Benzo(b)fluoranthene

Concen: 5.453 ng

RT: 23.916 min Scan# 31

Delta R.T. -0.047 min

Lab File: BP020627.D

Acq: 14 Jun 2024 16:04

Instrument :

BNA\_P

ClientSampleId :

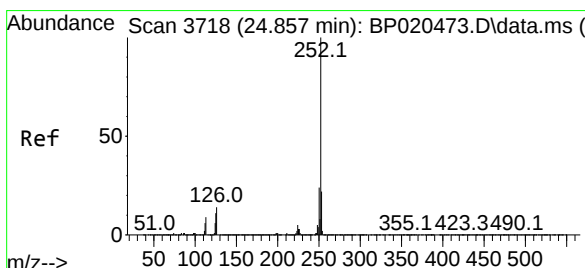
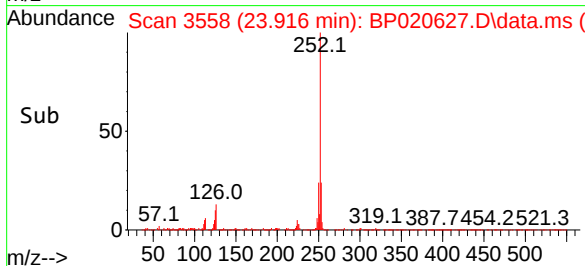
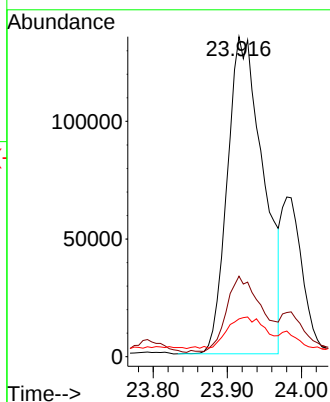
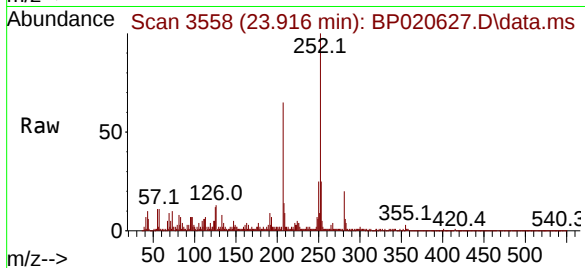
WCS-TPJ

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 45478 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.1  | 17.6  | 26.4  |
| 125       | 11.8  | 8.0   | 12.0  |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 06/17/2024  
Supervised By :mohammad ahmed 06/18/2024



#90

Benzo(a)pyrene

Concen: 4.862 ng

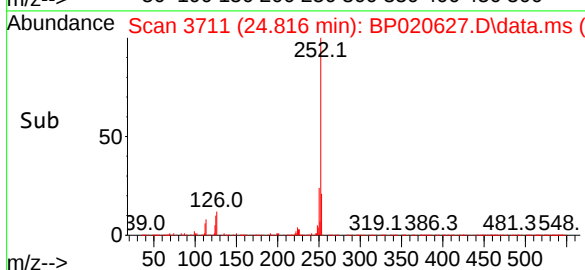
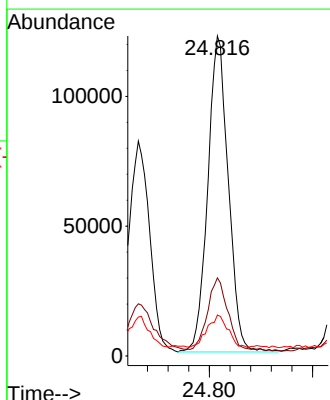
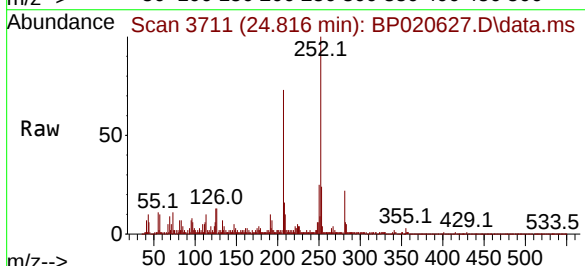
RT: 24.816 min Scan# 3711

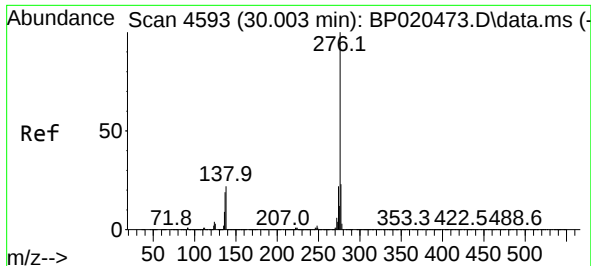
Delta R.T. -0.041 min

Lab File: BP020627.D

Acq: 14 Jun 2024 16:04

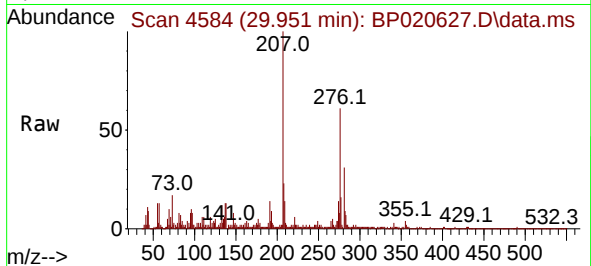
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 335795 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.4  | 17.4  | 26.2   |
| 125       | 12.8  | 8.9   | 13.3   |





#92  
Benzo(g,h,i)perylene  
Concen: 3.687 ng  
RT: 29.951 min Scan# 4584  
Delta R.T. -0.053 min  
Lab File: BP020627.D  
Acq: 14 Jun 2024 16:04

Instrument :  
BNA\_P  
ClientSampleId :  
WCS-TPJ



Tgt Ion: 276 Resp: 250235  
Ion Ratio Lower Upper  
276 100  
277 26.1 18.7 28.1  
138 20.8 17.7 26.5

Manual Integrations  
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Reviewed By :Jagrut Upadhyay 06/17/2024  
Supervised By :mohammad ahmed 06/18/2024

