

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032922\  
 Data File : BP009614.D  
 Acq On : 30 Mar 2022 02:21  
 Operator : CG/JU  
 Sample : N2095-09 5X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 SB-09-3.0-4.0

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 03/30/2022  
 Supervised By : Jagrut Upadhyay 03/30/2022

Quant Time: Mar 30 04:12:49 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP031722.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 30 04:00:13 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.763  | 152  | 307707   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.557 | 136  | 1265473  | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.410 | 164  | 809716   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.175 | 188  | 1654104  | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.292 | 240  | 1553845  | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 23.692 | 264  | 1741954  | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.375  | 112  | 225747   | 12.809 | ng    | 0.00     |
| 7) Phenol-d6                | 6.963  | 99   | 280548   | 11.771 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 8.928  | 82   | 168282   | 7.067  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.916 | 330  | 131410   | 9.835  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.028 | 172  | 478267   | 8.188  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.757 | 244  | 749153   | 8.654  | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 14.134 | 152  | 148981   | 2.029  | ng    | 98       |
| 71) Phenanthrene            | 17.222 | 178  | 244502   | 2.761  | ng    | 99       |
| 75) Fluoranthene            | 19.204 | 202  | 658832   | 6.146  | ng    | 98       |
| 78) Pyrene                  | 19.557 | 202  | 686201   | 6.702  | ng    | 100      |
| 81) Benzo(a)anthracene      | 21.280 | 228  | 408269   | 3.999  | ng    | 93       |
| 83) Chrysene                | 21.333 | 228  | 362936m  | 3.754  | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 26.192 | 276  | 387226   | 2.930  | ng    | # 93     |
| 88) Benzo(b)fluoranthene    | 22.963 | 252  | 786253   | 7.561  | ng    | # 90     |
| 89) Benzo(k)fluoranthene    | 23.010 | 252  | 269808m  | 2.650  | ng    |          |
| 90) Benzo(a)pyrene          | 23.586 | 252  | 554585   | 6.233  | ng    | # 92     |
| 92) Benzo(g,h,i)perylene    | 26.957 | 276  | 403453   | 3.723  | ng    | # 91     |
| -----                       |        |      |          |        |       |          |

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

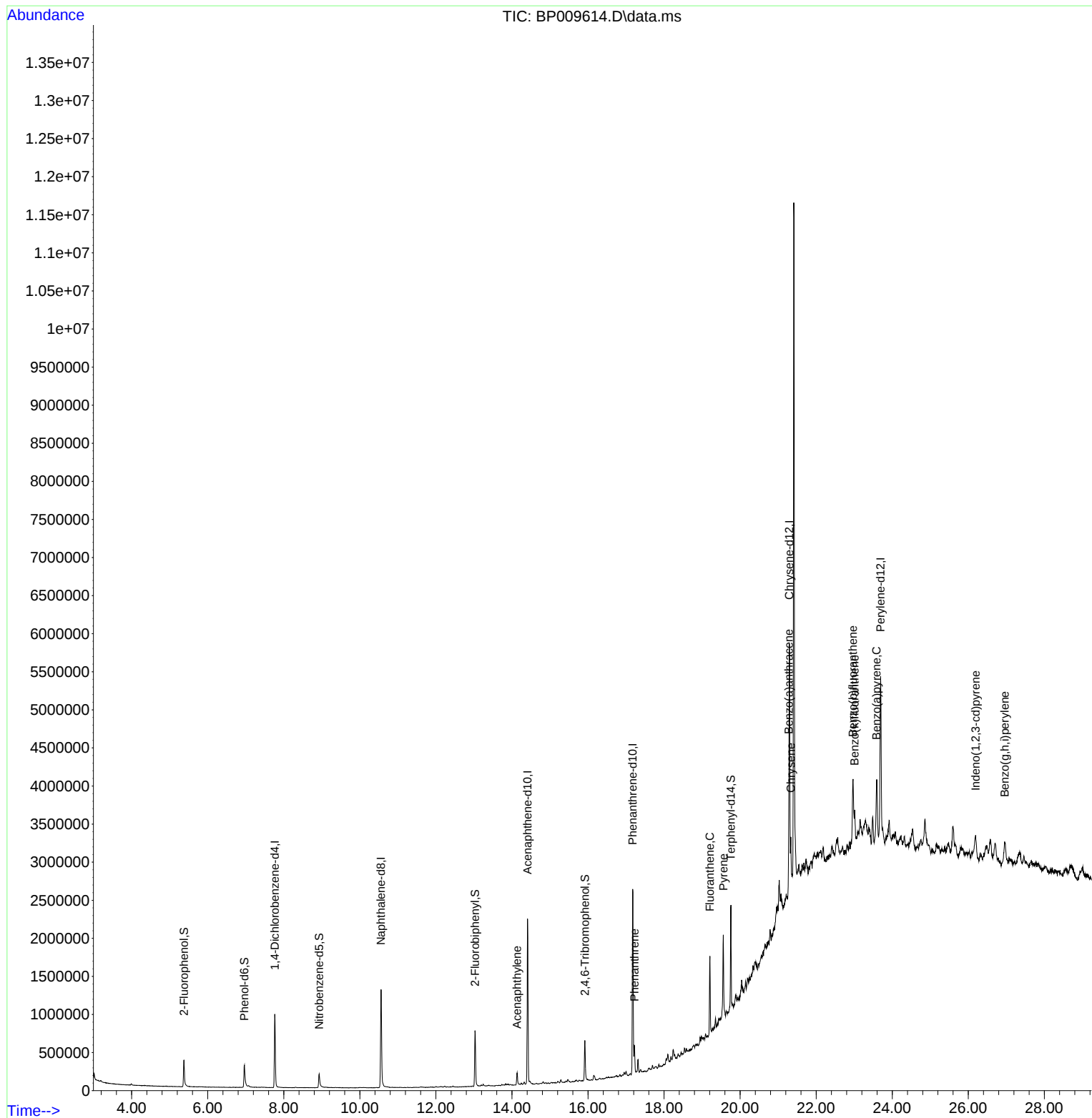
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP032922\  
Data File : BP009614.D  
Acq On : 30 Mar 2022 02:21  
Operator : CG/JU  
Sample : N2095-09 5X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

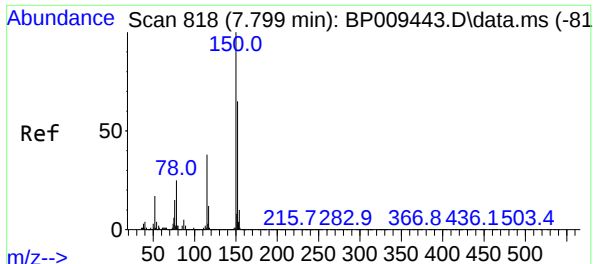
Instrument :  
BNA\_P  
ClientSampleId :  
SB-09-3.0-4.0

Quant Time: Mar 30 04:12:49 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP031722.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 30 04:00:13 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

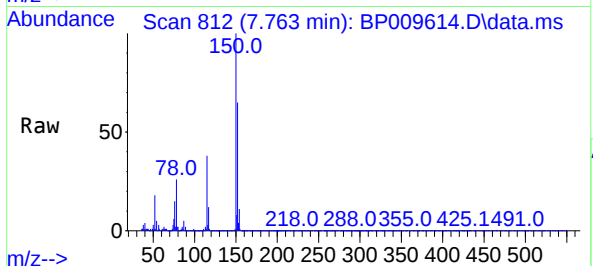
Reviewed By :Christian Giraldo 03/30/2022  
Supervised By :Jagrut Upadhyay 03/30/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.763 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

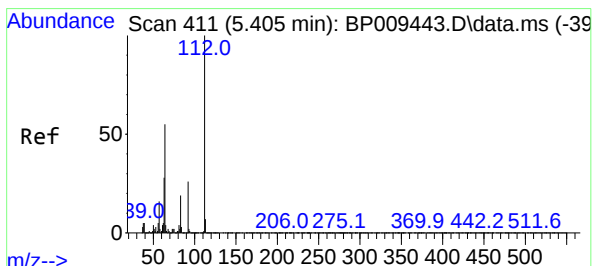
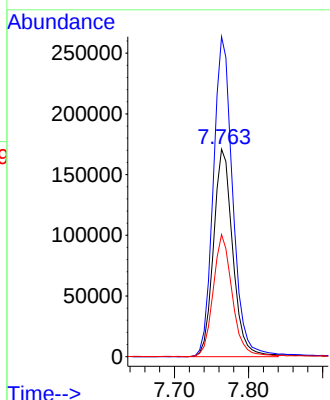
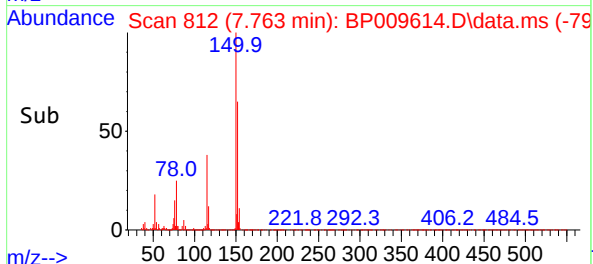
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BNA\_P  
ClientSampleId :  
SB-09-3.0-4.0



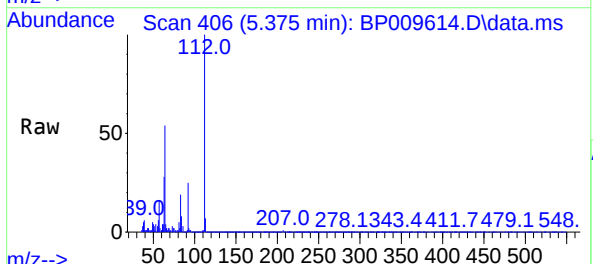
Tgt Ion:152 Resp: 30770  
Ion Ratio Lower Upper  
152 100  
150 154.2 124.5 186.7  
115 58.8 48.2 72.4

Manual Integrations  
APPROVED

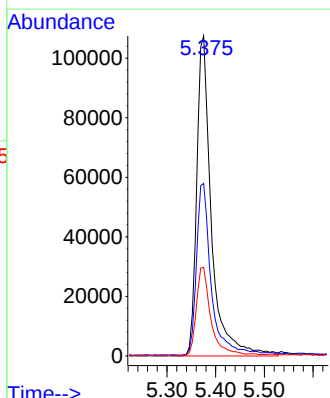
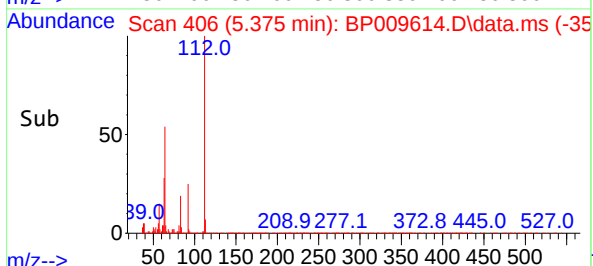
Reviewed By :Christian Giraldo 03/30/2022  
Supervised By :Jagrut Upadhyay 03/30/2022

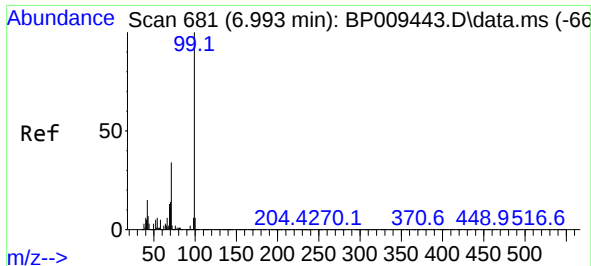


#5  
2-Fluorophenol  
Concen: 12.809 ng  
RT: 5.375 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21



Tgt Ion:112 Resp: 225747  
Ion Ratio Lower Upper  
112 100  
64 53.9 45.0 67.4  
63 27.6 23.0 34.6





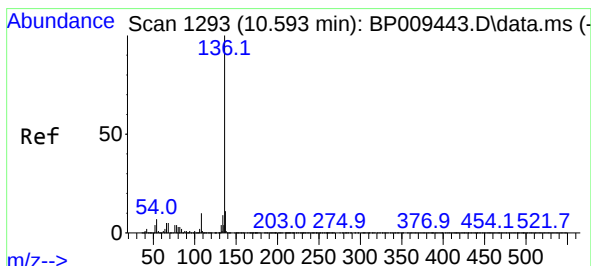
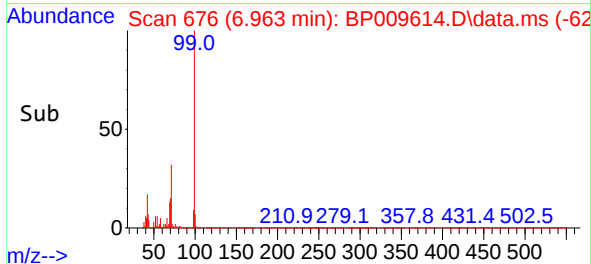
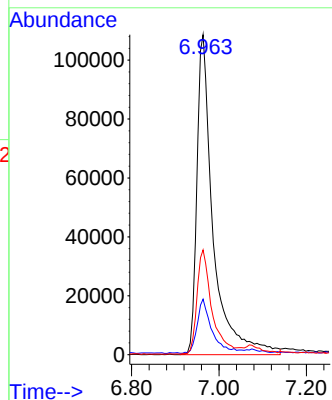
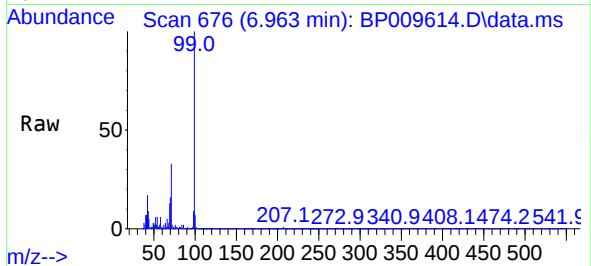
#7  
Phenol-d6  
Concen: 11.771 ng  
RT: 6.963 min Scan# 61  
Delta R.T. 0.012 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

Instrument :  
BNA\_P  
ClientSampleId :  
SB-09-3.0-4.0

Tgt Ion: 99 Resp: 280548  
Ion Ratio Lower Upper  
99 100  
42 17.3 12.8 19.2  
71 32.8 26.3 39.5

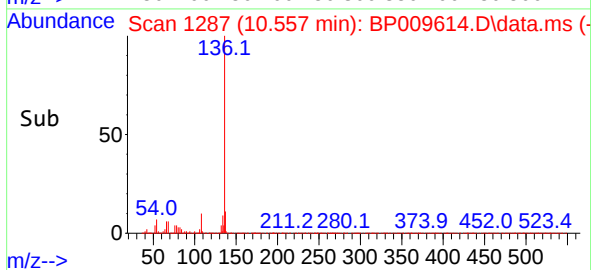
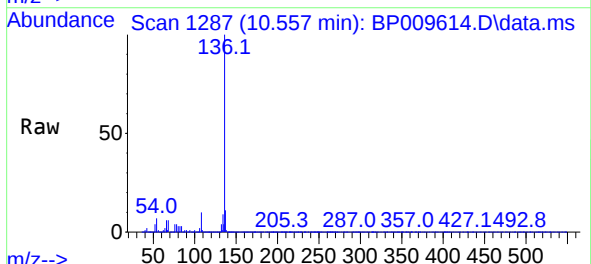
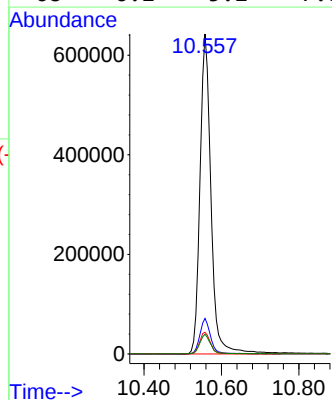
Manual Integrations  
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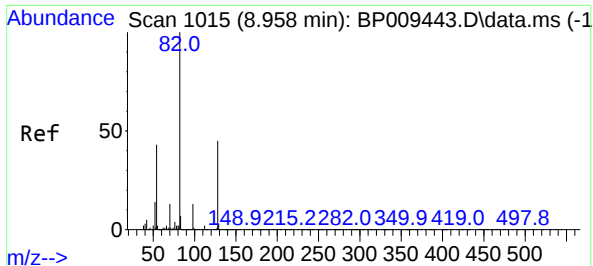
Reviewed By :Christian Giraldo 03/30/2022  
Supervised By :Jagrut Upadhyay 03/30/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.557 min Scan# 1287  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

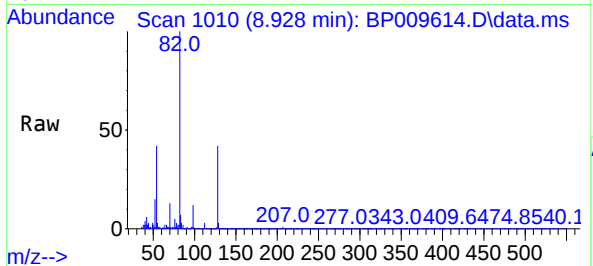
Tgt Ion:136 Resp: 1265473  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.6 12.8  
54 6.8 5.8 8.8  
68 6.2 5.2 7.8





#23  
Nitrobenzene-d5  
Concen: 7.067 ng  
RT: 8.928 min Scan# 1010  
Delta R.T. 0.006 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

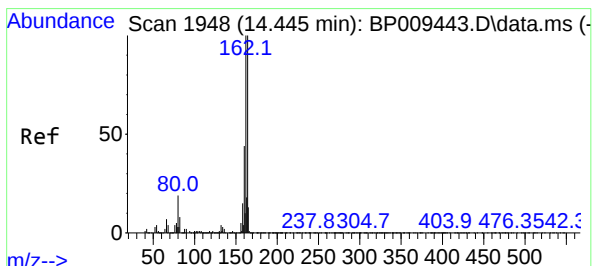
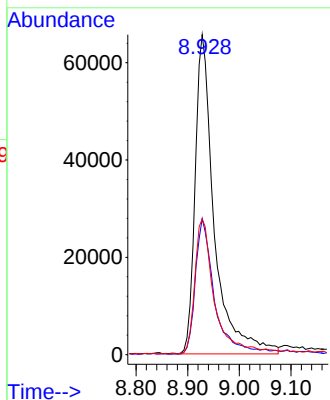
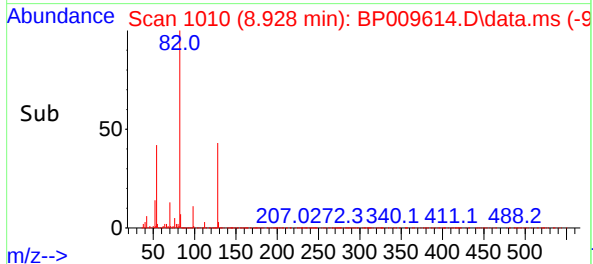
Instrument :  
BNA\_P  
ClientSampleId :  
SB-09-3.0-4.0



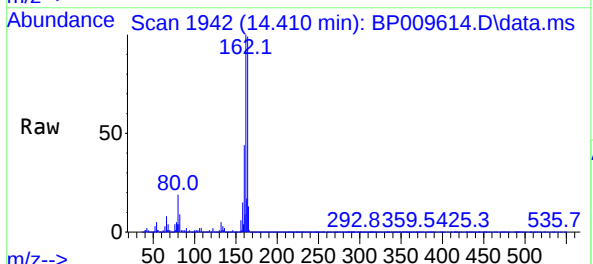
Tgt Ion: 82 Resp: 16828  
Ion Ratio Lower Upper  
82 100  
128 42.5 34.2 51.4  
54 42.4 34.7 52.1

Manual Integrations  
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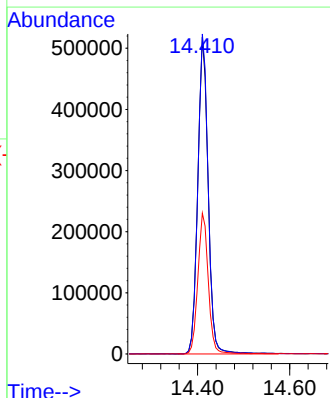
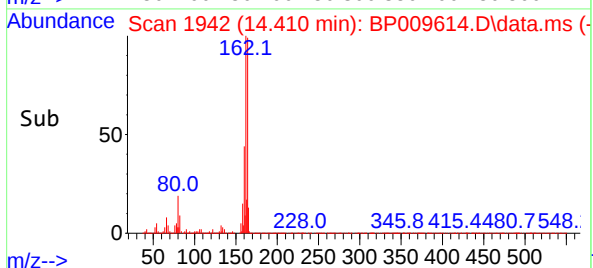
Reviewed By :Christian Giraldo 03/30/2022  
Supervised By :Jagrut Upadhyay 03/30/2022

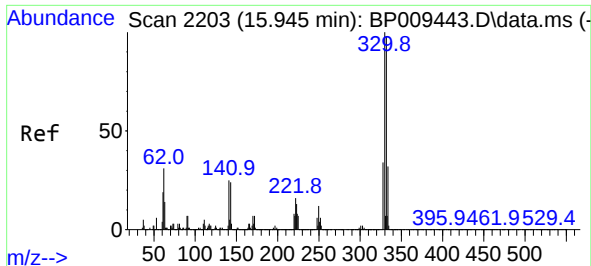


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.410 min Scan# 1942  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21



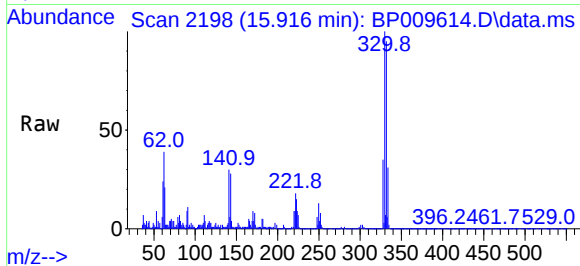
Tgt Ion:164 Resp: 809716  
Ion Ratio Lower Upper  
164 100  
162 101.0 79.1 118.7  
160 44.4 34.9 52.3





#42  
2,4,6-Tribromophenol  
Concen: 9.835 ng  
RT: 15.916 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

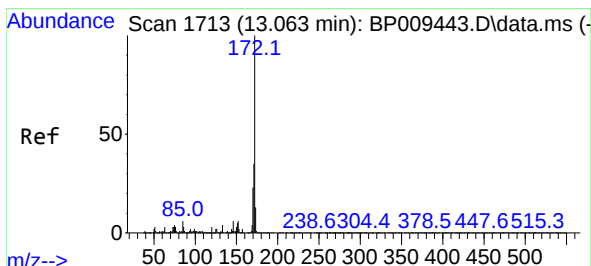
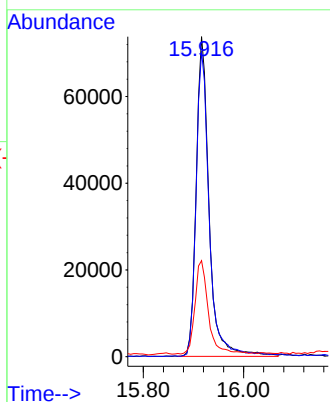
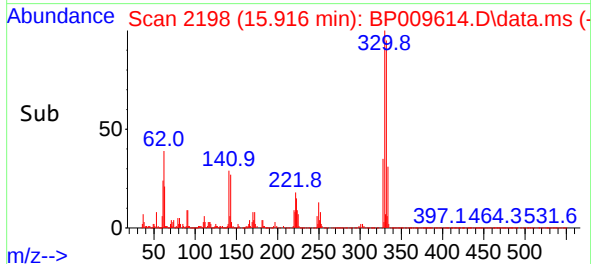
Instrument :  
BNA\_P  
ClientSampleId :  
SB-09-3.0-4.0



Tgt Ion:330 Resp: 131410  
Ion Ratio Lower Upper  
330 100  
332 96.0 77.0 115.6  
141 30.6 27.6 41.4

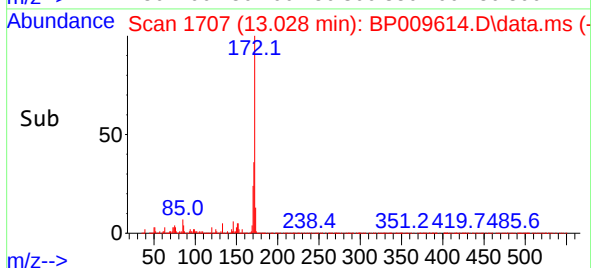
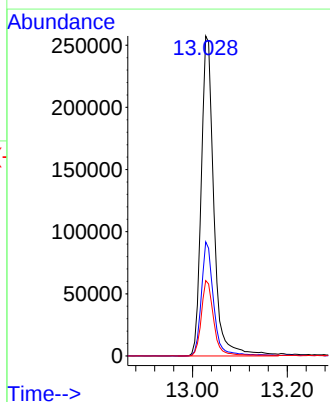
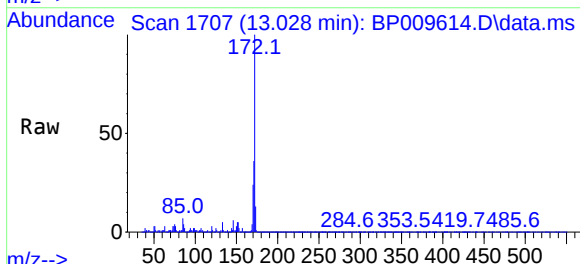
Manual Integrations  
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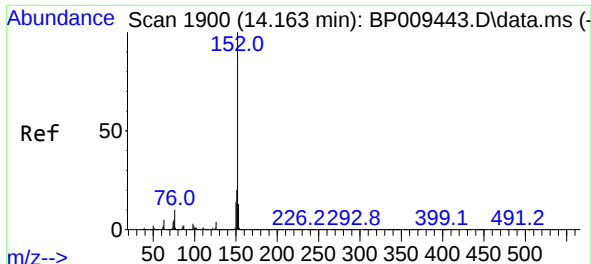
Reviewed By :Christian Giraldo 03/30/2022  
Supervised By :Jagrut Upadhyay 03/30/2022



#45  
2-Fluorobiphenyl  
Concen: 8.188 ng  
RT: 13.028 min Scan# 1707  
Delta R.T. -0.006 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

Tgt Ion:172 Resp: 478267  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.0 42.0  
170 23.5 18.6 27.8





#49  
Acenaphthylene  
Concen: 2.029 ng  
RT: 14.134 min Scan# 1895  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

Instrument :

BNA\_P

ClientSampleId :

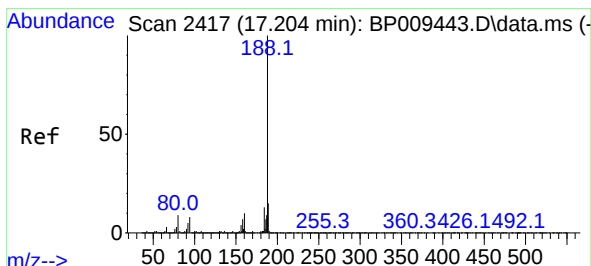
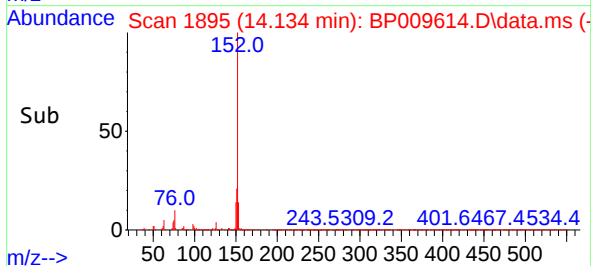
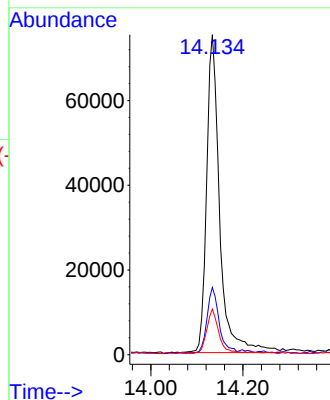
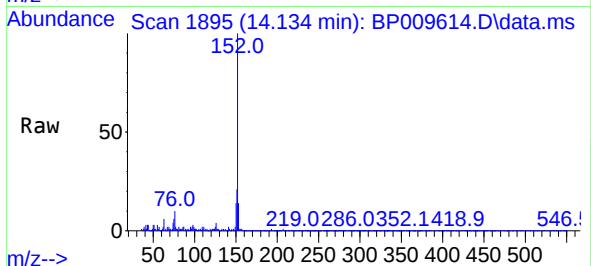
SB-09-3.0-4.0

Tgt Ion:152 Resp: 14898  
Ion Ratio Lower Upper  
152 100  
151 21.0 15.9 23.9  
153 14.2 10.7 16.1

Manual Integrations

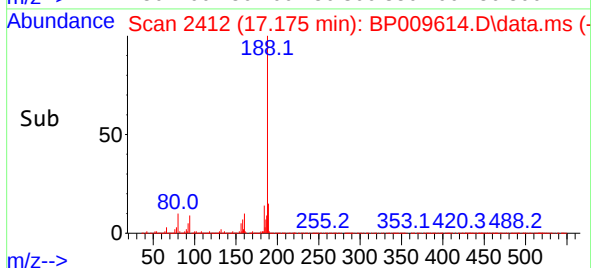
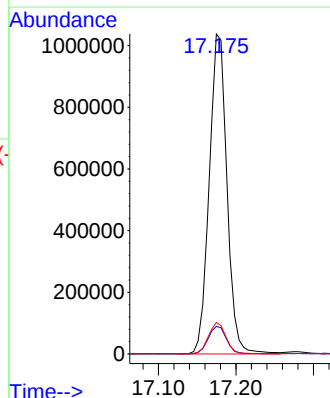
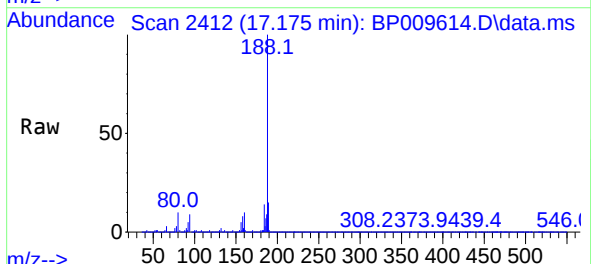
APPROVED

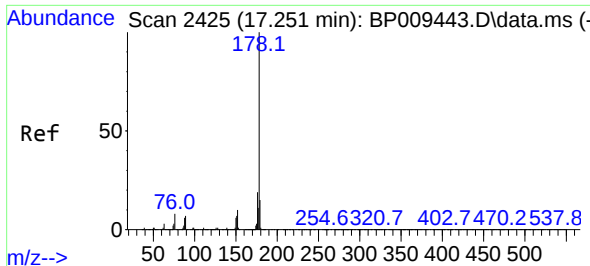
Reviewed By :Christian Giraldo 03/30/2022  
Supervised By :Jagrut Upadhyay 03/30/2022



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.175 min Scan# 2412  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

Tgt Ion:188 Resp: 1654104  
Ion Ratio Lower Upper  
188 100  
94 8.6 7.9 11.9  
80 9.9 8.8 13.2





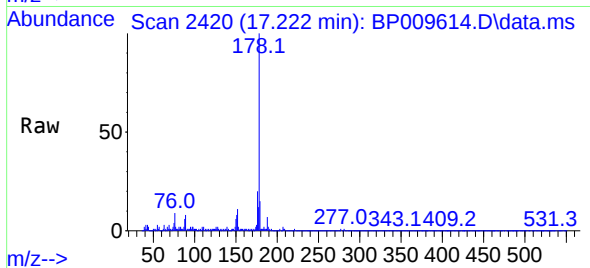
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Phenanthrene  
Concen: 2.761 ng  
RT: 17.222 min Scan# 2425  
Delta R.T. 0.006 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

Instrument :

BNA\_P

ClientSampleId :

SB-09-3.0-4.0

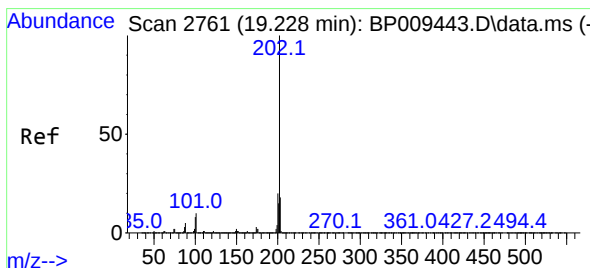
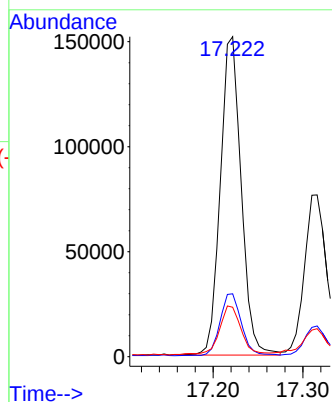
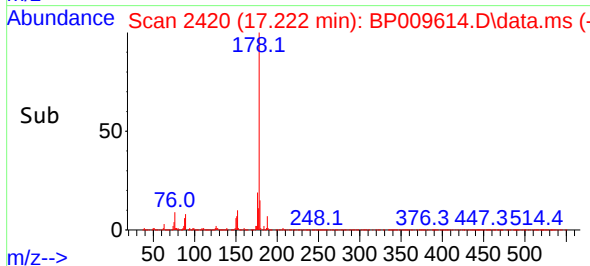


Tgt Ion:178 Resp: 244502  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.4 23.2  
179 15.5 12.3 18.5

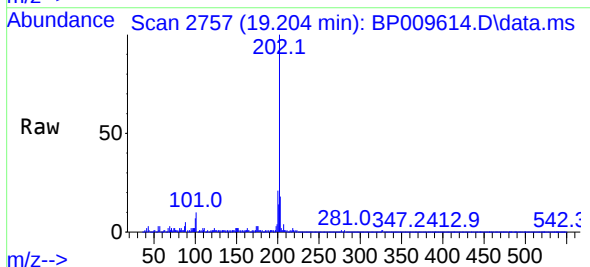
Manual Integrations

APPROVED

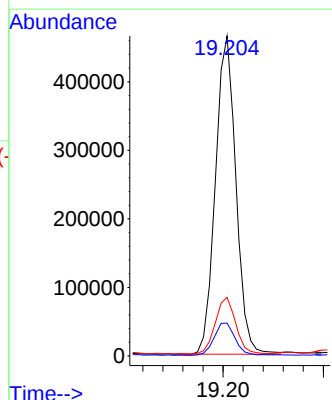
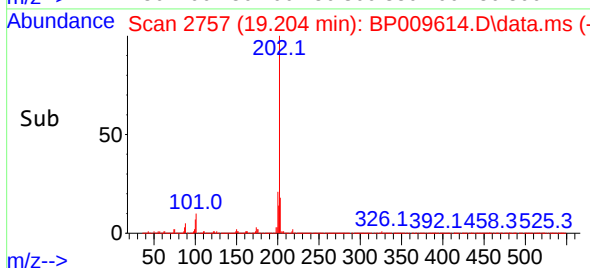
Reviewed By :Christian Giraldo 03/30/2022  
Supervised By :Jagrut Upadhyay 03/30/2022

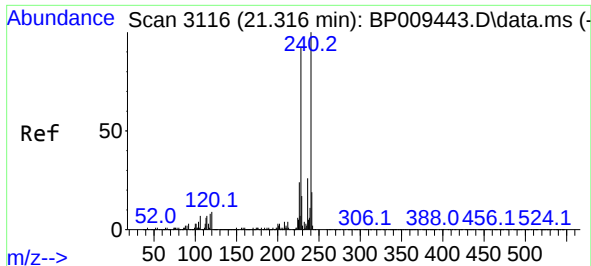


#75  
Fluoranthene  
Concen: 6.146 ng  
RT: 19.204 min Scan# 2757  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21



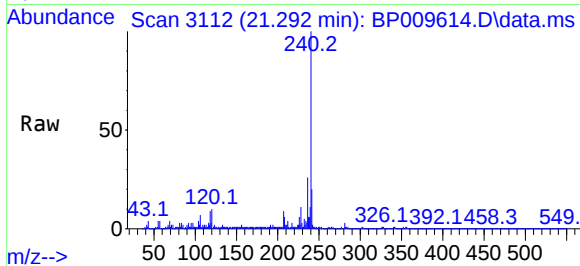
Tgt Ion:202 Resp: 658832  
Ion Ratio Lower Upper  
202 100  
101 10.2 0.0 31.5  
203 18.3 0.0 37.8





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.292 min Scan# 3116  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

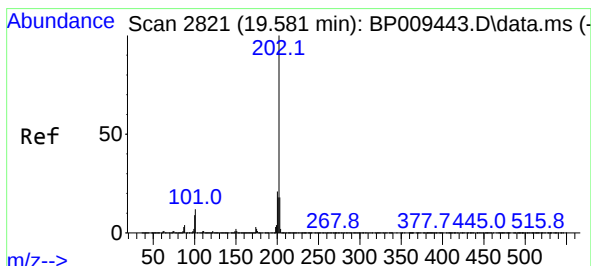
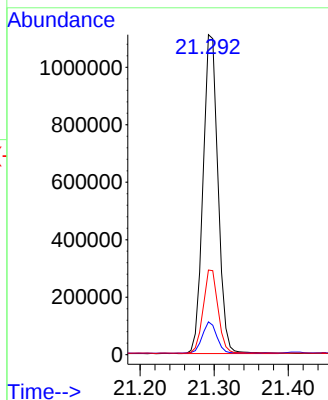
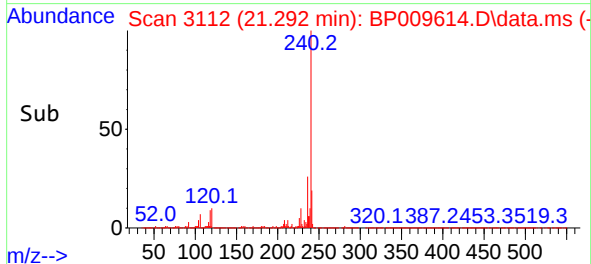
Instrument :  
BNA\_P  
ClientSampleId :  
SB-09-3.0-4.0



Tgt Ion:240 Resp: 155384  
Ion Ratio Lower Upper  
240 100  
120 10.2 9.0 13.4  
236 26.4 20.6 30.8

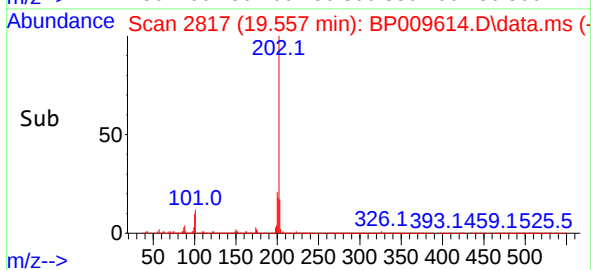
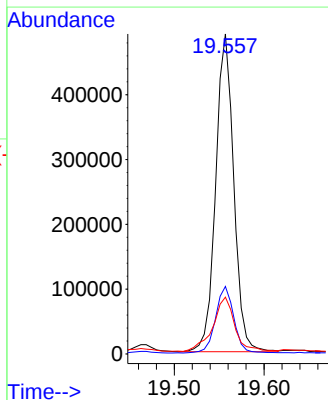
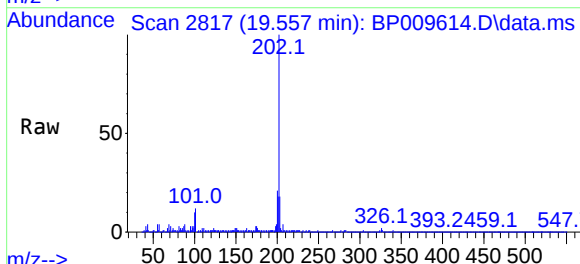
Manual Integrations  
APPROVED

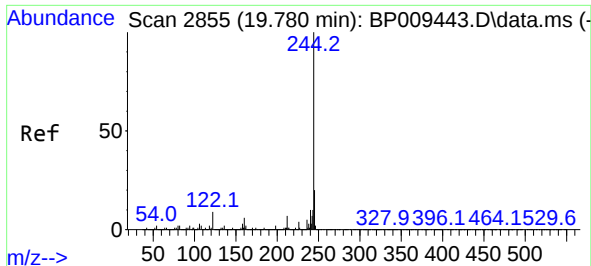
Reviewed By :Christian Giraldo 03/30/2022  
Supervised By :Jagrut Upadhyay 03/30/2022



#78  
Pyrene  
Concen: 6.702 ng  
RT: 19.557 min Scan# 2817  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

Tgt Ion:202 Resp: 686201  
Ion Ratio Lower Upper  
202 100  
200 21.1 16.8 25.2  
203 17.8 14.2 21.4





#79  
Terphenyl-d14  
Concen: 8.654 ng  
RT: 19.757 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

Instrument :

BNA\_P

ClientSampleId :

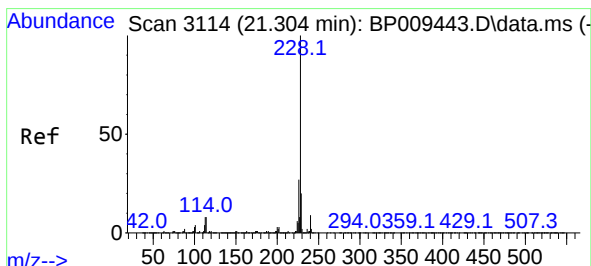
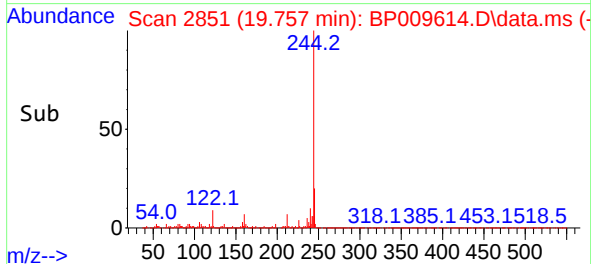
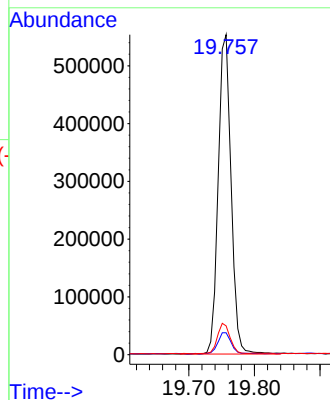
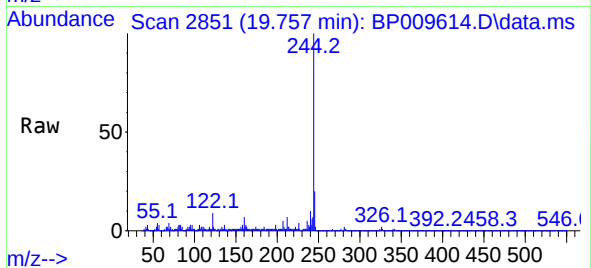
SB-09-3.0-4.0

Tgt Ion:244 Resp: 74915  
Ion Ratio Lower Upper  
244 100  
212 6.9 5.8 8.6  
122 9.0 8.3 12.5

Manual Integrations

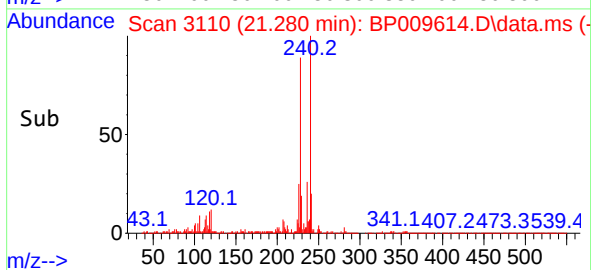
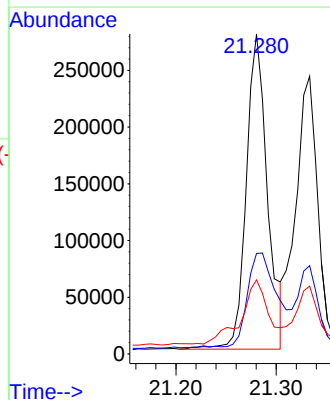
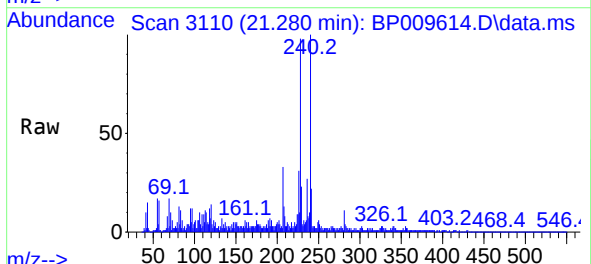
APPROVED

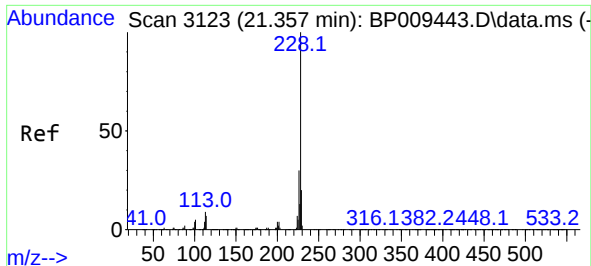
Reviewed By :Christian Giraldo 03/30/2022  
Supervised By :Jagrut Upadhyay 03/30/2022



#81  
Benzo(a)anthracene  
Concen: 3.999 ng  
RT: 21.280 min Scan# 3110  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

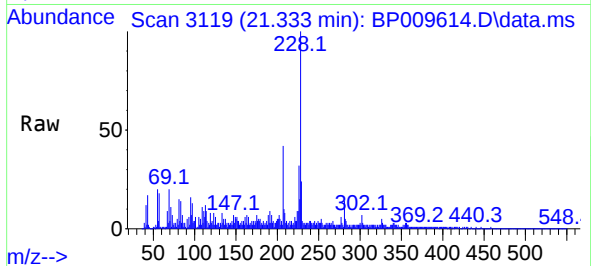
Tgt Ion:228 Resp: 408269  
Ion Ratio Lower Upper  
228 100  
226 31.4 22.0 33.0  
229 23.2 16.1 24.1





#83  
Chrysene  
Concen: 3.754 ng m  
RT: 21.333 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

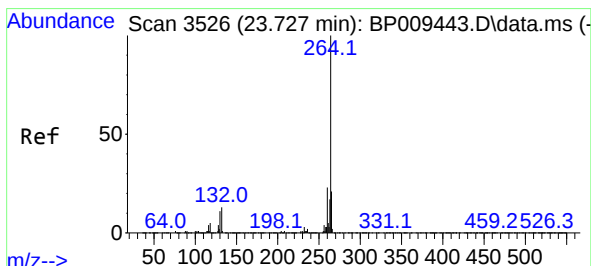
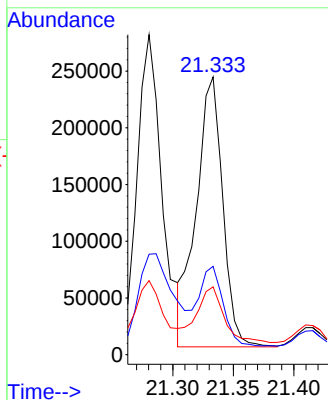
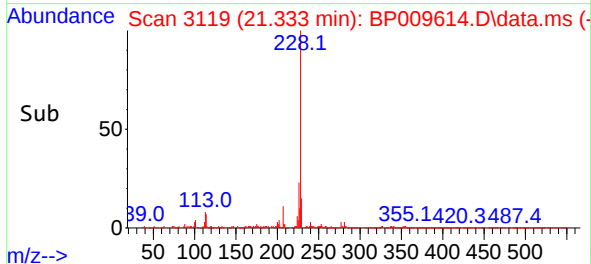
Instrument :  
BNA\_P  
ClientSampleId :  
SB-09-3.0-4.0



Tgt Ion:228 Resp: 362930  
Ion Ratio Lower Upper  
228 100  
226 31.8 24.2 36.2  
229 24.4 16.1 24.1

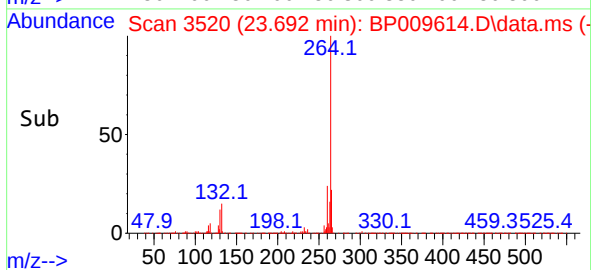
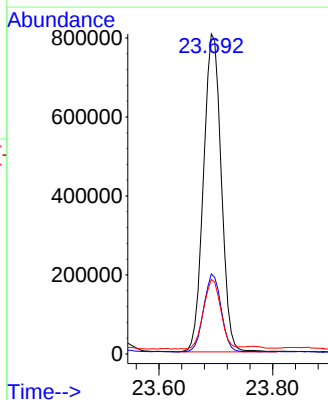
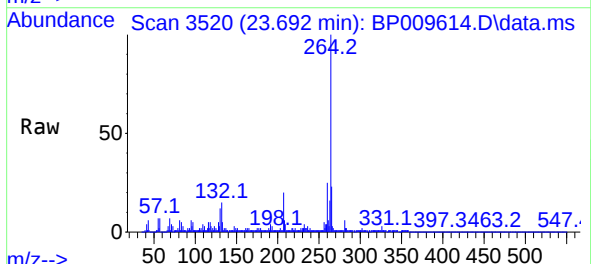
Manual Integrations  
APPROVED

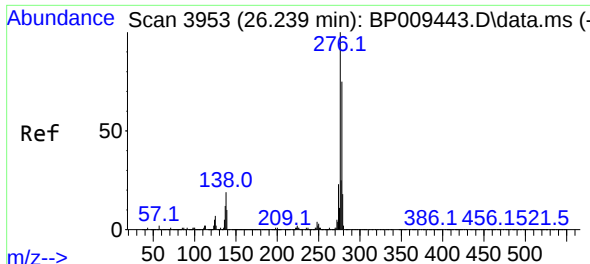
Reviewed By :Christian Giraldo 03/30/2022  
Supervised By :Jagrut Upadhyay 03/30/2022



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.692 min Scan# 3520  
Delta R.T. 0.006 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

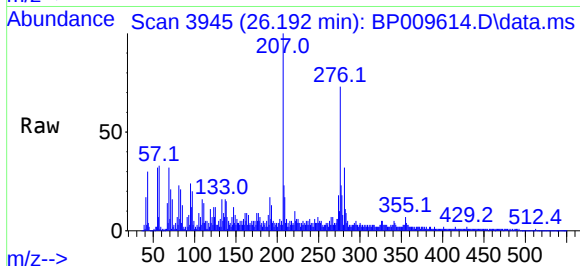
Tgt Ion:264 Resp: 1741954  
Ion Ratio Lower Upper  
264 100  
260 25.0 19.4 29.0  
265 23.3 17.2 25.8





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.930 ng  
RT: 26.192 min Scan# 3945  
Delta R.T. 0.012 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

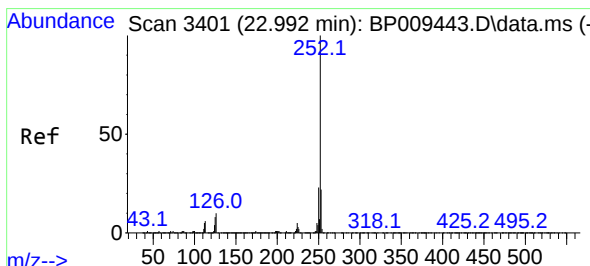
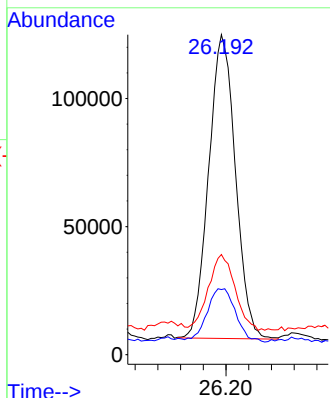
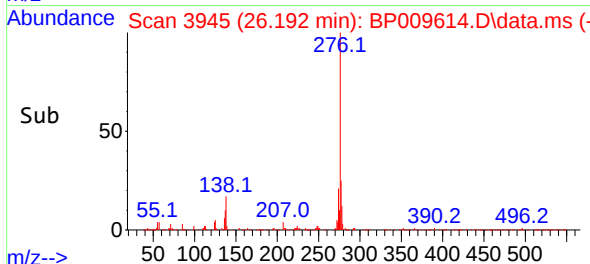
Instrument :  
BNA\_P  
ClientSampleId :  
SB-09-3.0-4.0



Tgt Ion: 276 Resp: 387220  
Ion Ratio Lower Upper  
276 100  
138 18.9 20.5 30.7  
277 24.8 20.4 30.6

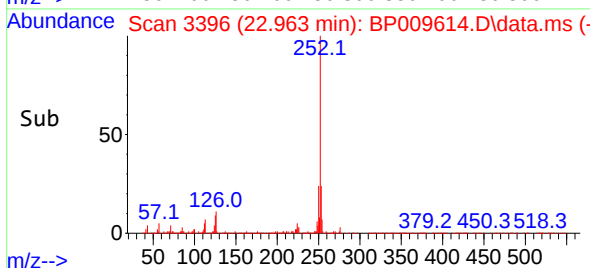
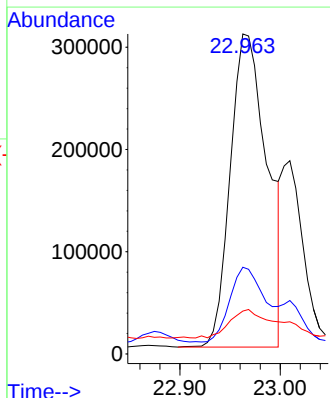
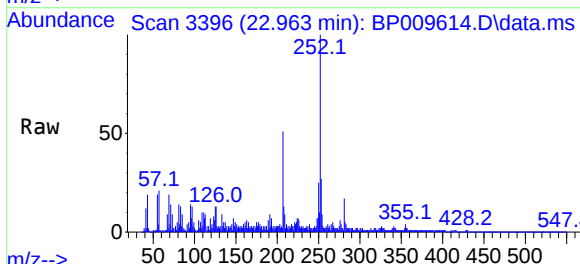
Manual Integrations  
APPROVED

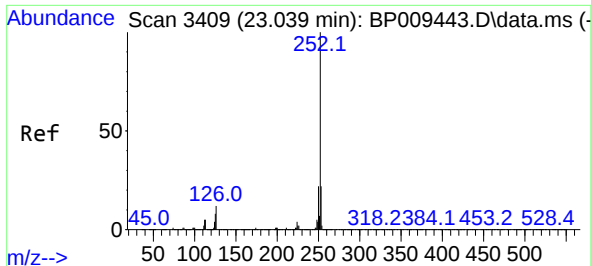
Reviewed By : Christian Giraldo 03/30/2022  
Supervised By : Jagrut Upadhyay 03/30/2022



#88  
Benzo(b)fluoranthene  
Concen: 7.561 ng  
RT: 22.963 min Scan# 3396  
Delta R.T. 0.000 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

Tgt Ion: 252 Resp: 786253  
Ion Ratio Lower Upper  
252 100  
253 27.1 17.8 26.8#  
125 13.4 8.1 12.1#





#89  
Benzo(k)fluoranthene  
Concen: 2.650 ng m  
RT: 23.010 min Scan# 3409  
Delta R.T. 0.006 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

Instrument :

BNA\_P

ClientSampleId :

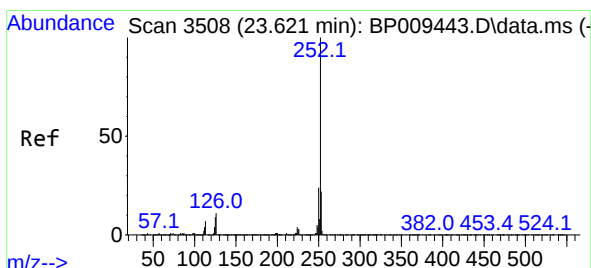
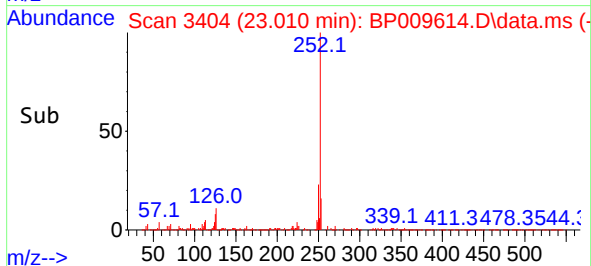
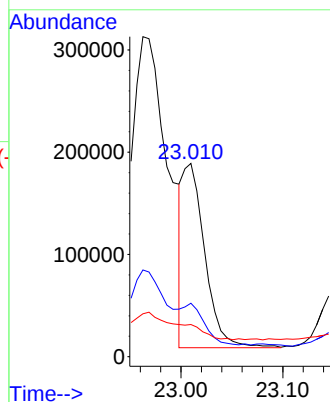
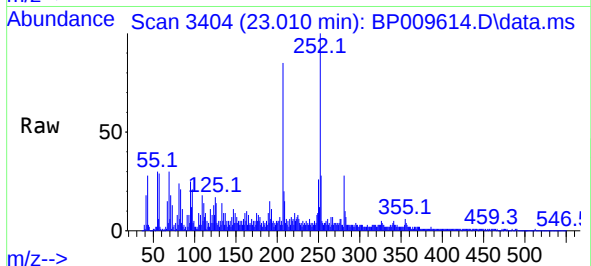
SB-09-3.0-4.0

Tgt Ion:252 Resp: 269800  
Ion Ratio Lower Upper  
252 100  
253 27.7 17.5 26.3  
125 16.6 8.3 12.5

Manual Integrations

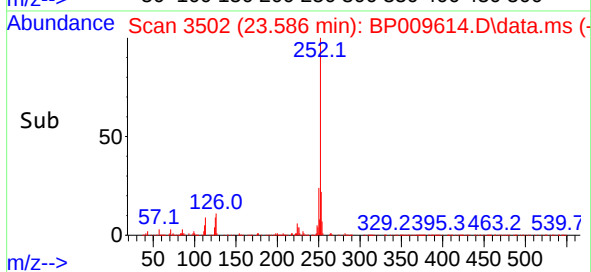
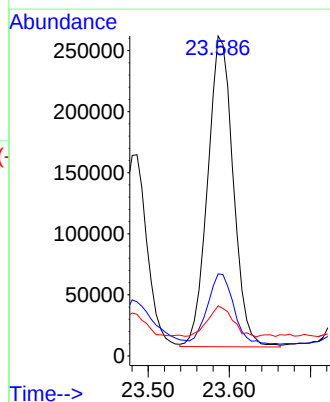
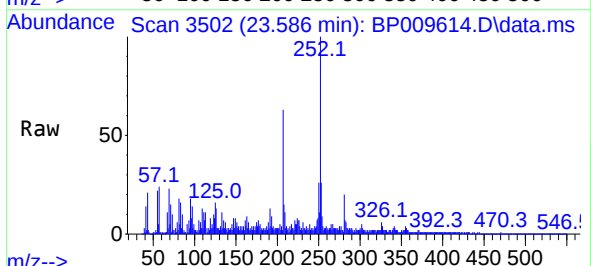
APPROVED

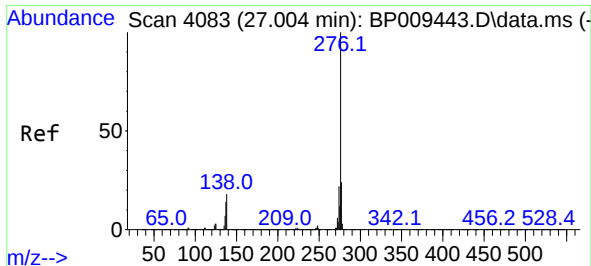
Reviewed By :Christian Giraldo 03/30/2022  
Supervised By :Jagrut Upadhyay 03/30/2022



#90  
Benzo(a)pyrene  
Concen: 6.233 ng  
RT: 23.586 min Scan# 3502  
Delta R.T. 0.006 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

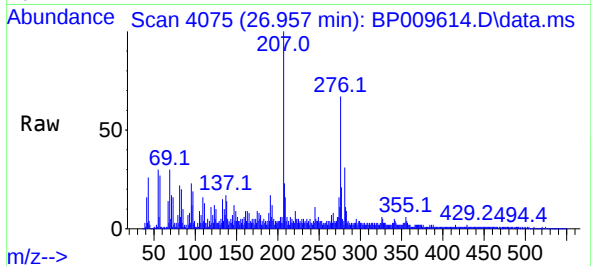
Tgt Ion:252 Resp: 554585  
Ion Ratio Lower Upper  
252 100  
253 25.7 17.8 26.6  
125 15.6 9.3 13.9





#92  
Benzo(g,h,i)perylene  
Concen: 3.723 ng  
RT: 26.957 min Scan# 4083  
Delta R.T. 0.012 min  
Lab File: BP009614.D  
Acq: 30 Mar 2022 02:21

Instrument :  
BNA\_P  
ClientSampleId :  
SB-09-3.0-4.0



Tgt Ion: 276 Resp: 40345  
Ion Ratio Lower Upper  
276 100  
277 31.5 19.2 28.8  
138 21.0 18.0 27.0

Manual Integrations  
APPROVED

Reviewed By : Christian Giraldo 03/30/2022  
Supervised By : Jagrut Upadhyay 03/30/2022

