

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP031122\  
 Data File : BP009364.D  
 Acq On : 11 Mar 2022 14:44  
 Operator : CG/JU  
 Sample : N1890-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 VNJ-232

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 03/14/2022  
 Supervised By : Jagrut Upadhyay 03/14/2022

Quant Time: Mar 12 04:50:07 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP030522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Mar 05 01:55:59 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.816  | 152  | 379895   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.610 | 136  | 1547686  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.457 | 164  | 971857   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.216 | 188  | 2003615  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.327 | 240  | 1984980  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 23.739 | 264  | 2227952  | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.422  | 112  | 2361823  | 90.749  | ng    | 0.01     |
| 7) Phenol-d6                  | 7.010  | 99   | 2987782  | 90.338  | ng    | 0.02     |
| 23) Nitrobenzene-d5           | 8.969  | 82   | 1858247  | 66.131  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 15.957 | 330  | 1446372  | 123.251 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.081 | 172  | 4351378  | 61.573  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.798 | 244  | 6747305  | 64.147  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 49) Acenaphthylene            | 14.175 | 152  | 250105   | 2.693   | ng    | 98       |
| 71) Phenanthrene              | 17.257 | 178  | 495245   | 4.301   | ng    | 99       |
| 75) Fluoranthene              | 19.239 | 202  | 1029159  | 7.743   | ng    | 98       |
| 78) Pyrene                    | 19.592 | 202  | 1128152  | 8.418   | ng    | 100      |
| 81) Benzo(a)anthracene        | 21.310 | 228  | 557944   | 4.147   | ng    | 94       |
| 83) Chrysene                  | 21.362 | 228  | 647300   | 4.955   | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.251 | 149  | 353208   | 4.565   | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 26.239 | 276  | 450043   | 2.600   | ng    | # 93     |
| 88) Benzo(b)fluoranthene      | 23.004 | 252  | 816248m  | 5.426   | ng    |          |
| 89) Benzo(k)fluoranthene      | 23.045 | 252  | 294251m  | 2.048   | ng    |          |
| 90) Benzo(a)pyrene            | 23.627 | 252  | 567323   | 3.976   | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 27.009 | 276  | 465645   | 3.211   | ng    | # 90     |
| -----                         |        |      |          |         |       |          |

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

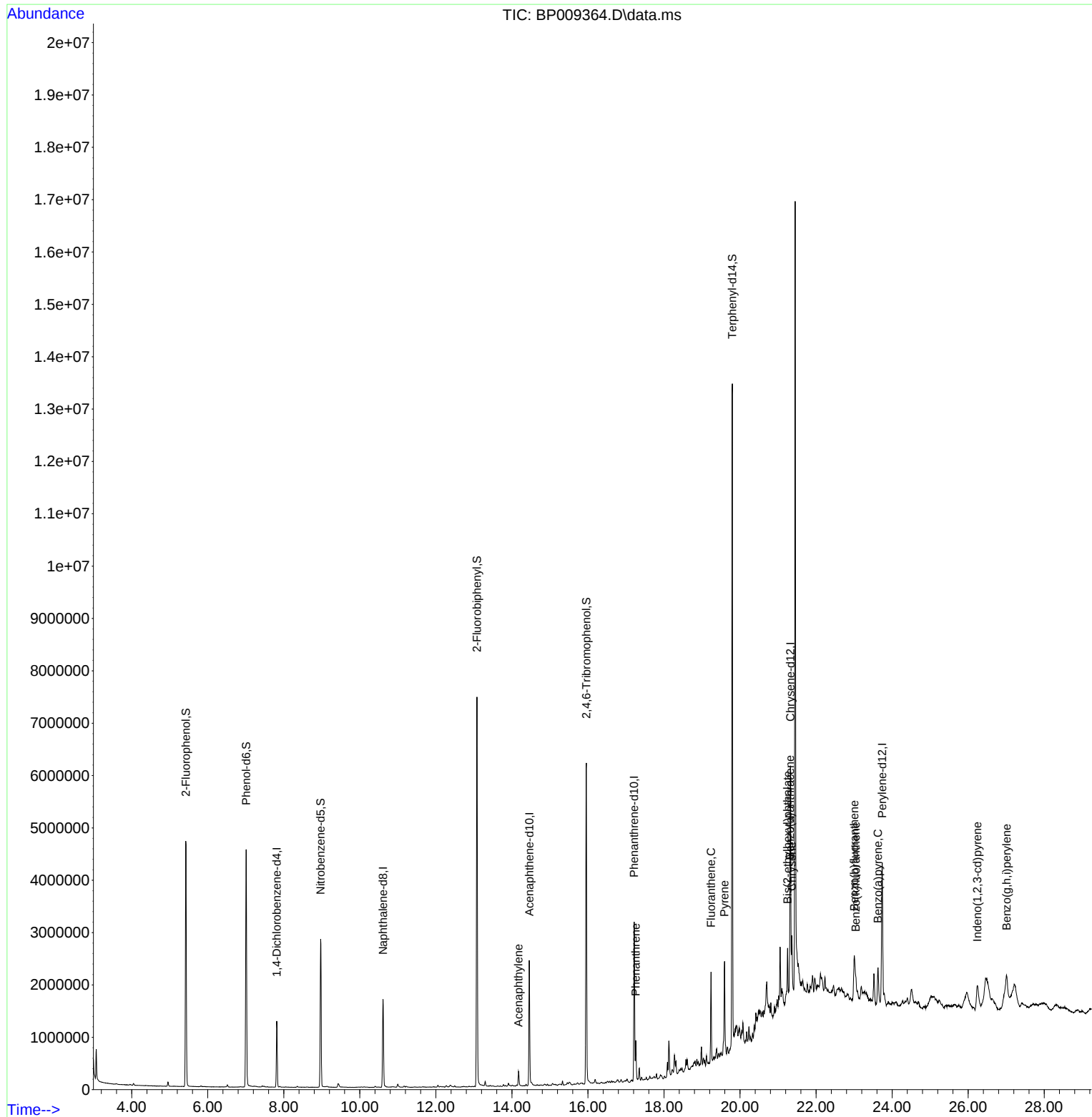
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP031122\  
Data File : BP009364.D  
Acq On : 11 Mar 2022 14:44  
Operator : CG/JU  
Sample : N1890-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

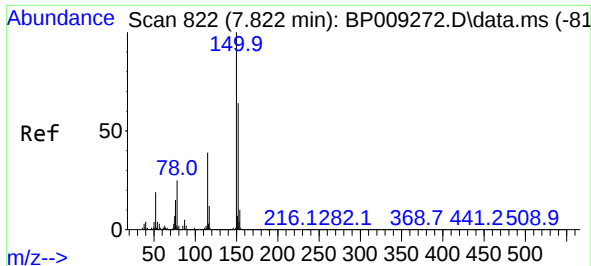
Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232

Quant Time: Mar 12 04:50:07 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP030522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Mar 05 01:55:59 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

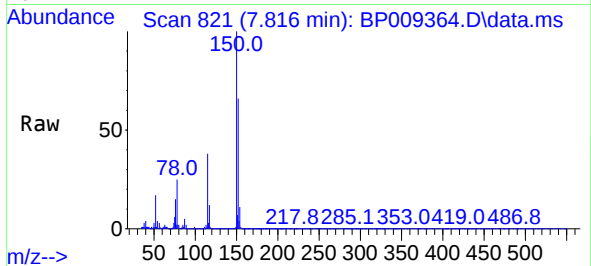
Reviewed By : Christian Giraldo 03/14/2022  
Supervised By : Jagrut Upadhyay 03/14/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.816 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

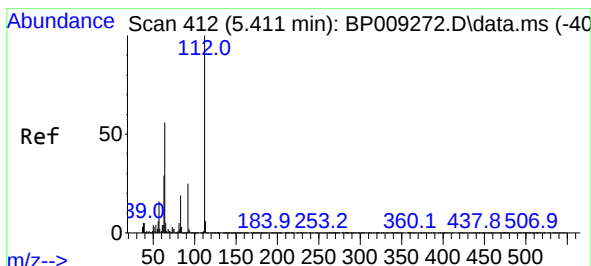
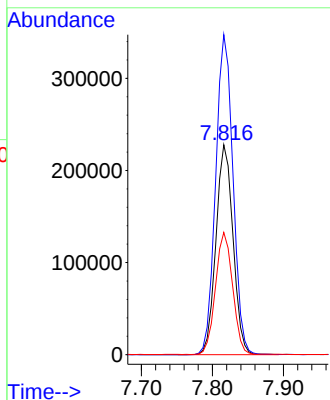
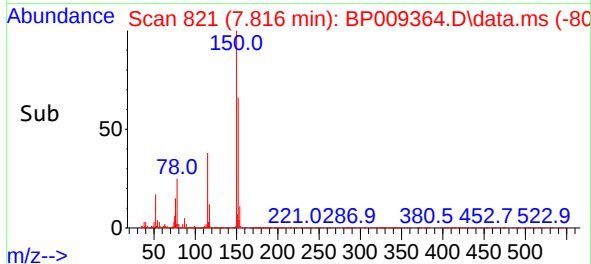
Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232



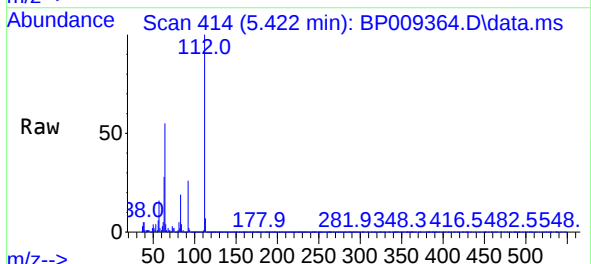
Tgt Ion:152 Resp: 37989  
Ion Ratio Lower Upper  
152 100  
150 152.4 124.5 186.7  
115 58.2 48.2 72.4

Manual Integrations  
APPROVED

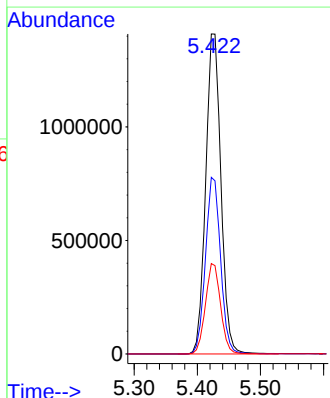
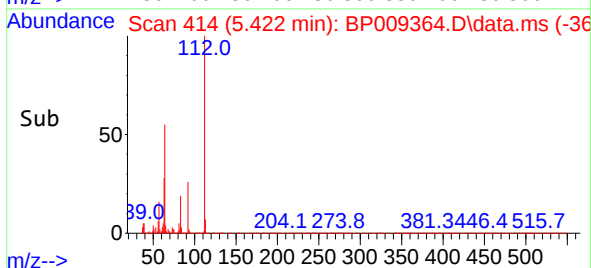
Reviewed By :Christian Giraldo 03/14/2022  
Supervised By :Jagrut Upadhyay 03/14/2022

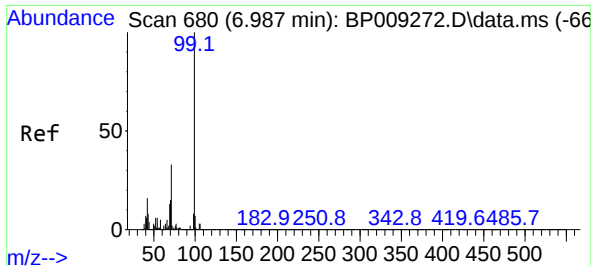


#5  
2-Fluorophenol  
Concen: 90.749 ng  
RT: 5.422 min Scan# 414  
Delta R.T. 0.011 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44



Tgt Ion:112 Resp: 2361823  
Ion Ratio Lower Upper  
112 100  
64 55.2 45.0 67.4  
63 28.2 23.0 34.6





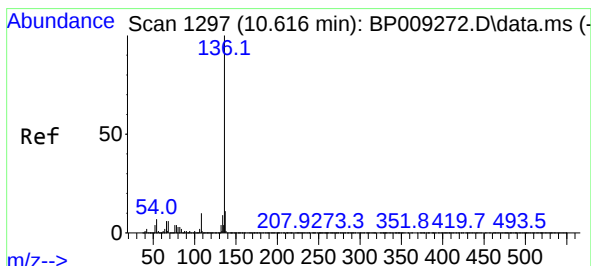
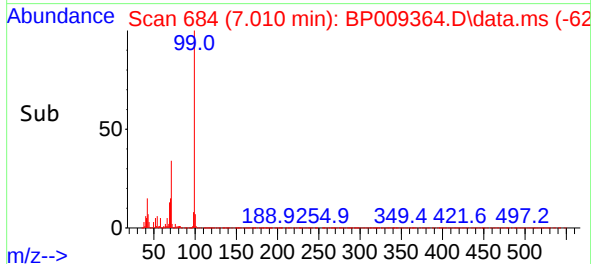
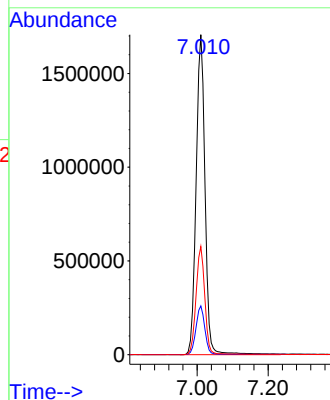
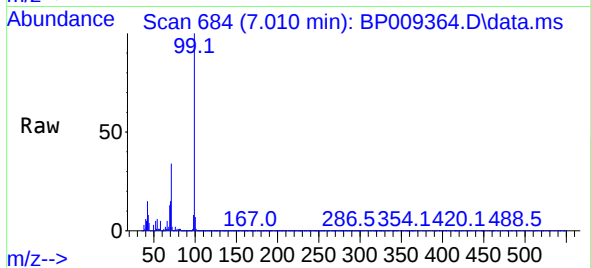
#7  
Phenol-d6  
Concen: 90.338 ng  
RT: 7.010 min Scan# 61  
Delta R.T. 0.023 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232

Tgt Ion: 99 Resp: 298778  
Ion Ratio Lower Upper  
99 100  
42 15.2 12.8 19.2  
71 33.8 26.3 39.5

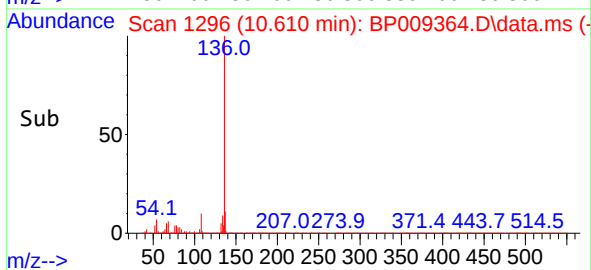
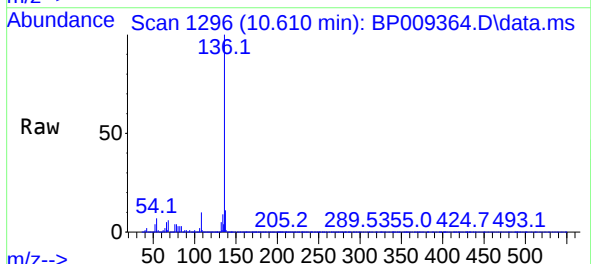
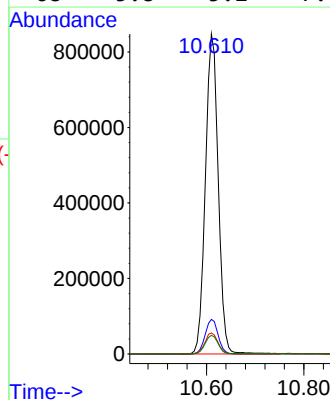
Manual Integrations  
APPROVED

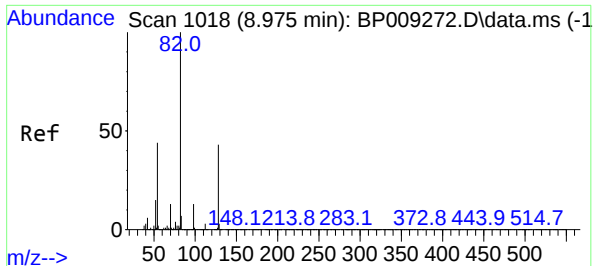
Reviewed By :Christian Giraldo 03/14/2022  
Supervised By :Jagrut Upadhyay 03/14/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.610 min Scan# 1296  
Delta R.T. -0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

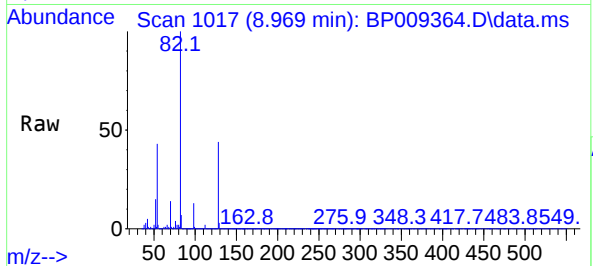
Tgt Ion:136 Resp: 1547686  
Ion Ratio Lower Upper  
136 100  
137 10.8 8.6 12.8  
54 6.6 5.8 8.8  
68 5.8 5.2 7.8





#23  
Nitrobenzene-d5  
Concen: 66.131 ng  
RT: 8.969 min Scan# 1018  
Delta R.T. -0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

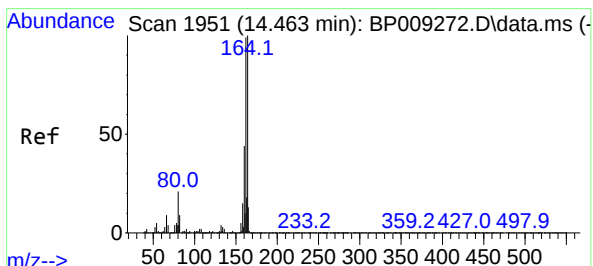
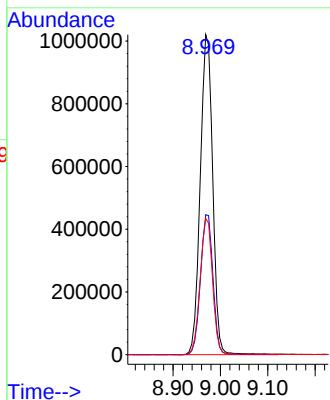
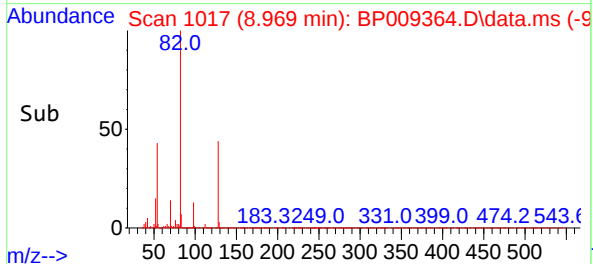
Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232



Tgt Ion: 82 Resp: 185824  
Ion Ratio Lower Upper  
82 100  
128 43.8 34.2 51.4  
54 42.6 34.7 52.1

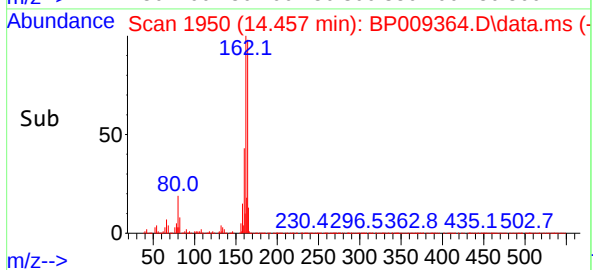
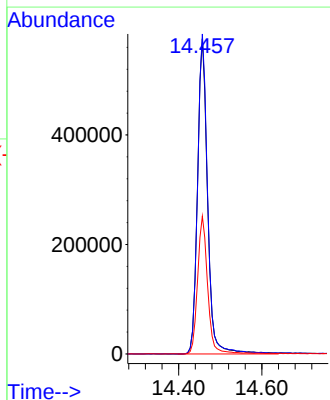
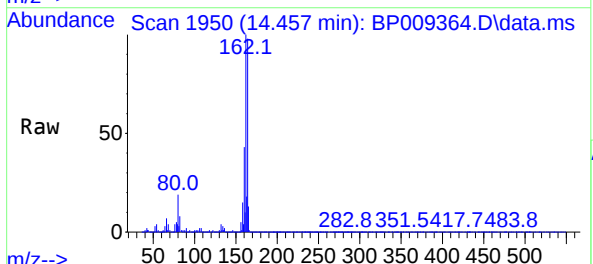
Manual Integrations  
APPROVED

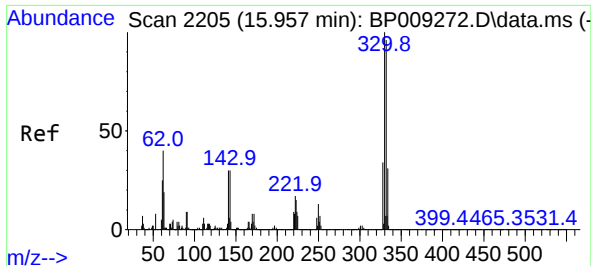
Reviewed By :Christian Giraldo 03/14/2022  
Supervised By :Jagrut Upadhyay 03/14/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.457 min Scan# 1950  
Delta R.T. -0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

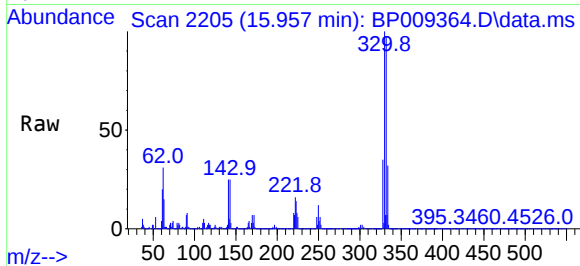
Tgt Ion:164 Resp: 971857  
Ion Ratio Lower Upper  
164 100  
162 101.5 79.1 118.7  
160 43.7 34.9 52.3





#42  
2,4,6-Tribromophenol  
Concen: 123.251 ng  
RT: 15.957 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

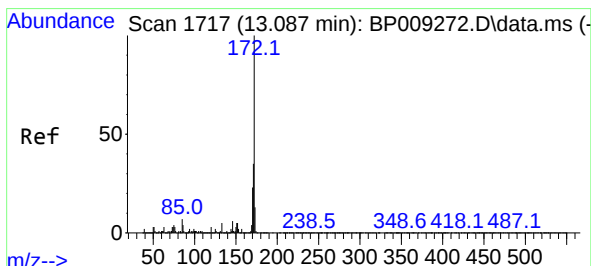
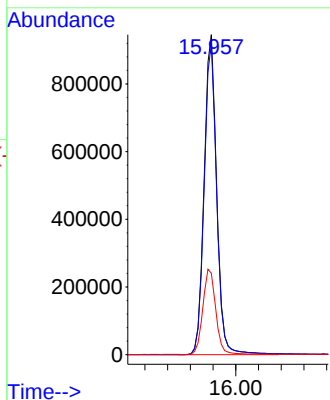
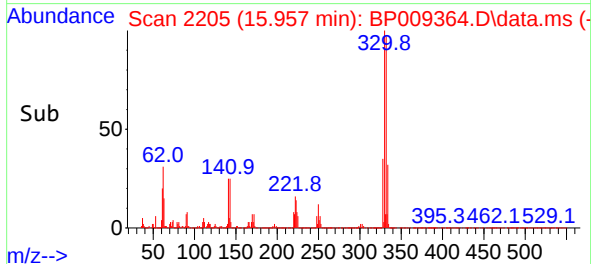
Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232



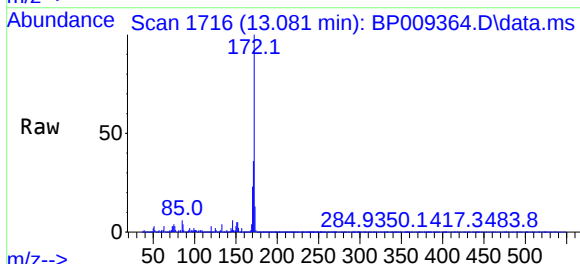
Tgt Ion:330 Resp: 1446372  
Ion Ratio Lower Upper  
330 100  
332 96.7 77.0 115.6  
141 27.3 27.6 41.4

Manual Integrations  
APPROVED

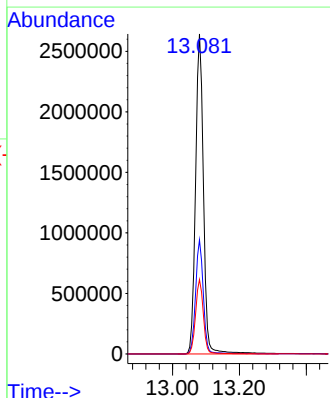
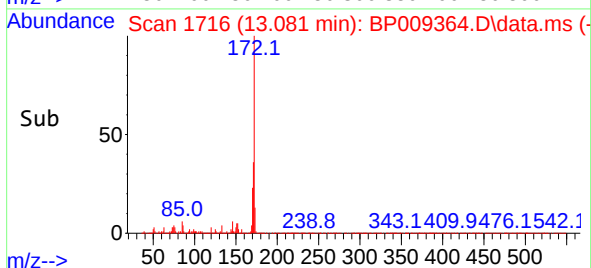
Reviewed By :Christian Giraldo 03/14/2022  
Supervised By :Jagrut Upadhyay 03/14/2022

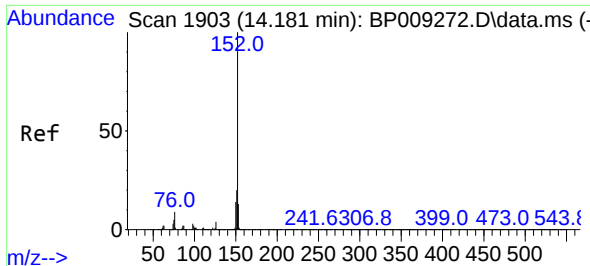


#45  
2-Fluorobiphenyl  
Concen: 61.573 ng  
RT: 13.081 min Scan# 1716  
Delta R.T. -0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44



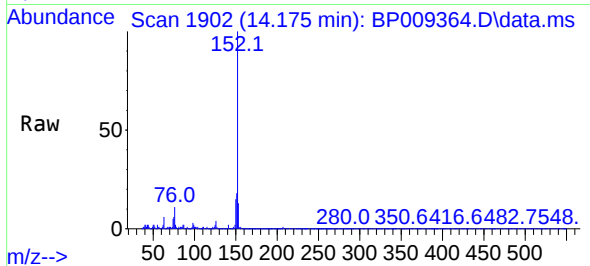
Tgt Ion:172 Resp: 4351378  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.0 42.0  
170 23.2 18.6 27.8





#49  
Acenaphthylene  
Concen: 2.693 ng  
RT: 14.175 min Scan# 1903  
Delta R.T. -0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

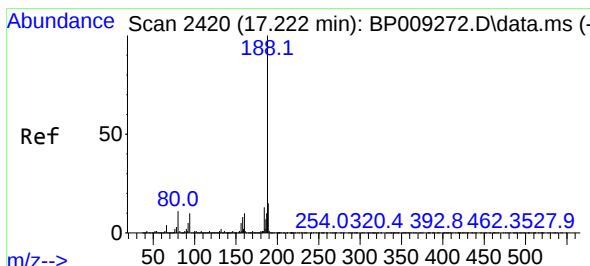
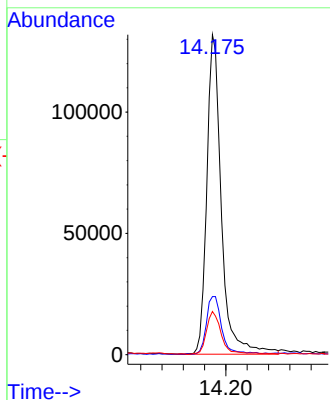
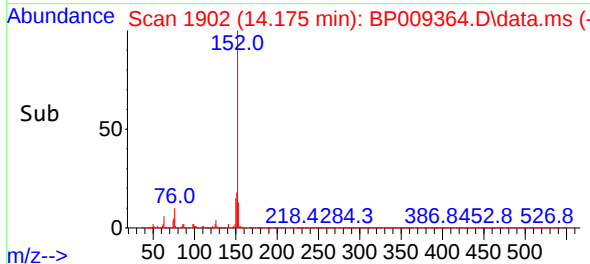
Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232



Tgt Ion:152 Resp: 25010  
Ion Ratio Lower Upper  
152 100  
151 18.2 15.9 23.9  
153 13.5 10.7 16.1

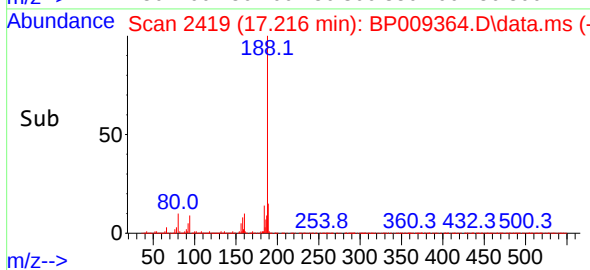
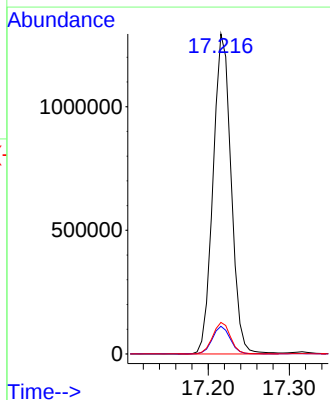
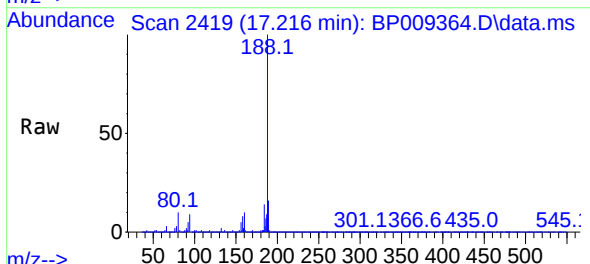
Manual Integrations  
APPROVED

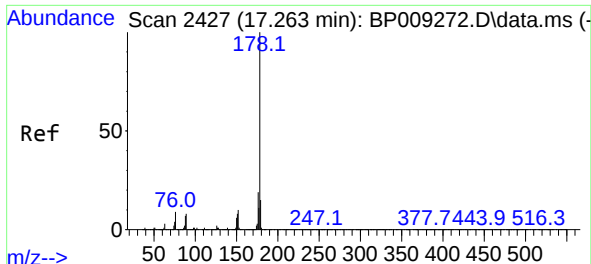
Reviewed By :Christian Giraldo 03/14/2022  
Supervised By :Jagrut Upadhyay 03/14/2022



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.216 min Scan# 2419  
Delta R.T. -0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

Tgt Ion:188 Resp: 2003615  
Ion Ratio Lower Upper  
188 100  
94 8.7 7.9 11.9  
80 9.9 8.8 13.2





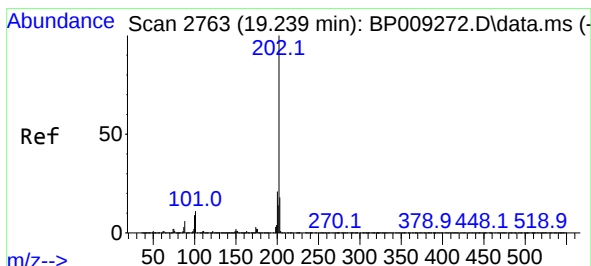
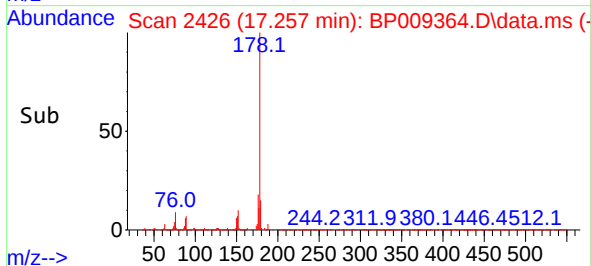
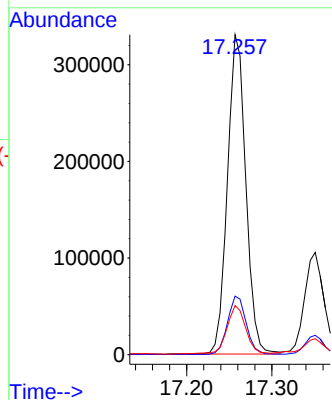
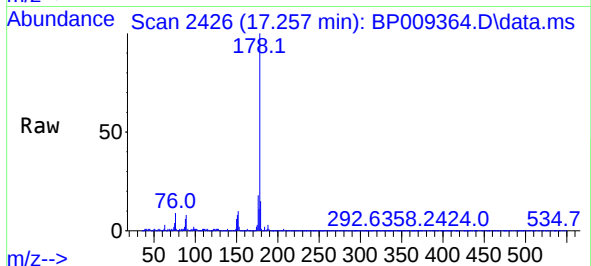
#71  
Phenanthrene  
Concen: 4.301 ng  
RT: 17.257 min Scan# 2427  
Delta R.T. -0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232

Tgt Ion:178 Resp: 495245  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.4 23.2  
179 15.3 12.3 18.5

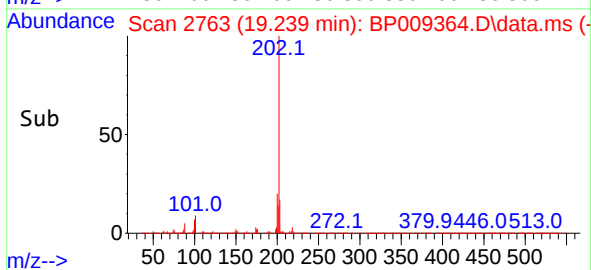
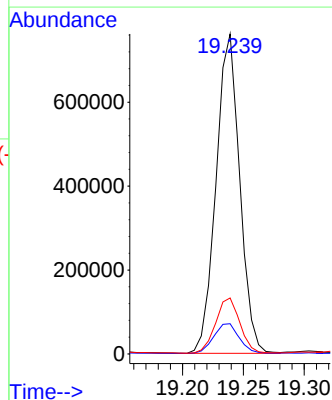
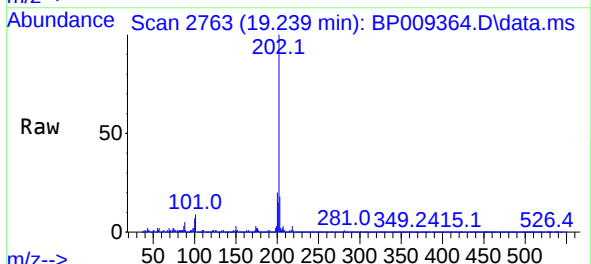
Manual Integrations  
APPROVED

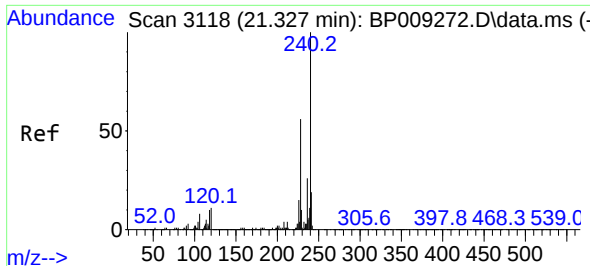
Reviewed By :Christian Giraldo 03/14/2022  
Supervised By :Jagrut Upadhyay 03/14/2022



#75  
Fluoranthene  
Concen: 7.743 ng  
RT: 19.239 min Scan# 2763  
Delta R.T. -0.000 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

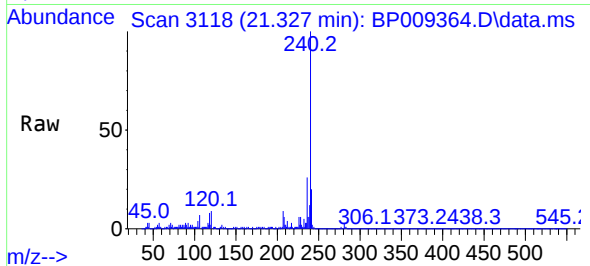
Tgt Ion:202 Resp: 1029159  
Ion Ratio Lower Upper  
202 100  
101 9.4 0.0 31.5  
203 17.5 0.0 37.8





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.327 min Scan# 3118  
Delta R.T. -0.000 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

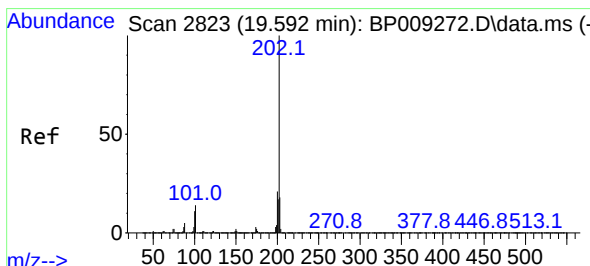
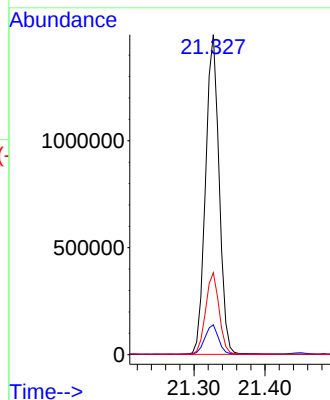
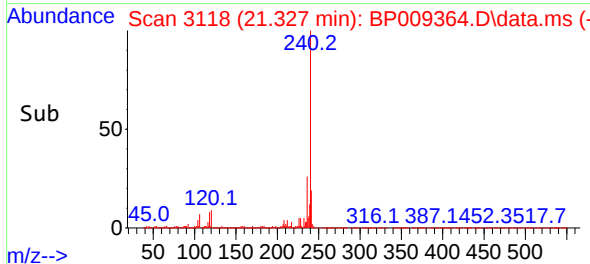
Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232



Tgt Ion:240 Resp: 1984980  
Ion Ratio Lower Upper  
240 100  
120 9.3 9.0 13.4  
236 25.6 20.6 30.8

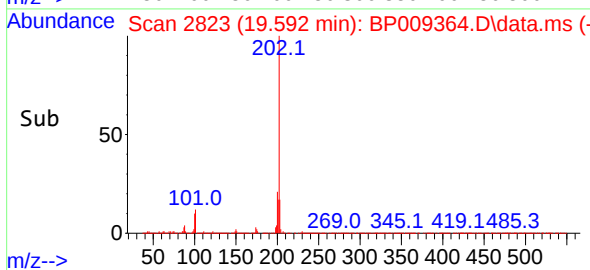
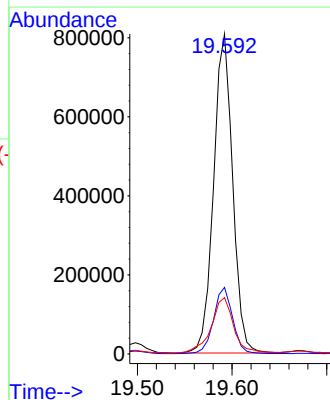
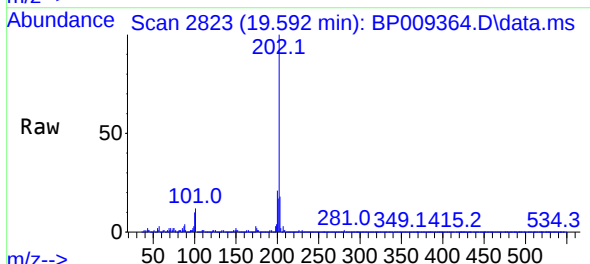
Manual Integrations  
APPROVED

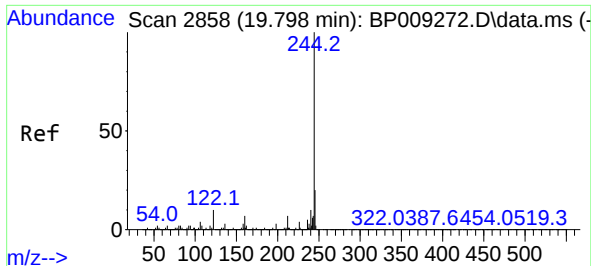
Reviewed By :Christian Giraldo 03/14/2022  
Supervised By :Jagrut Upadhyay 03/14/2022



#78  
Pyrene  
Concen: 8.418 ng  
RT: 19.592 min Scan# 2823  
Delta R.T. -0.000 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

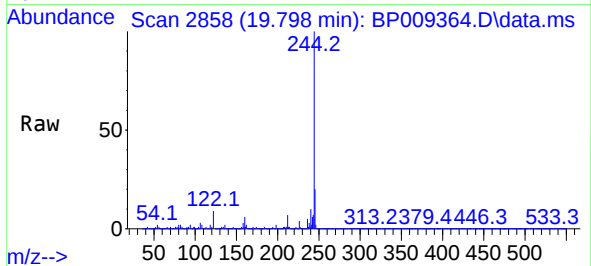
Tgt Ion:202 Resp: 1128152  
Ion Ratio Lower Upper  
202 100  
200 20.8 16.8 25.2  
203 17.6 14.2 21.4





#79  
Terphenyl-d14  
Concen: 64.147 ng  
RT: 19.798 min Scan# 2858  
Delta R.T. -0.000 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

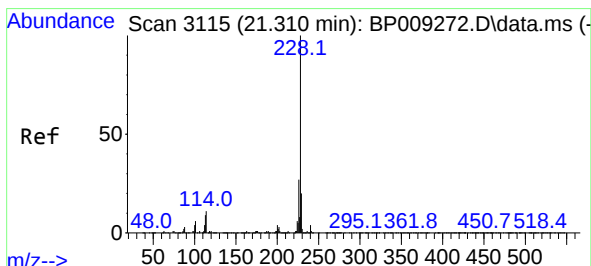
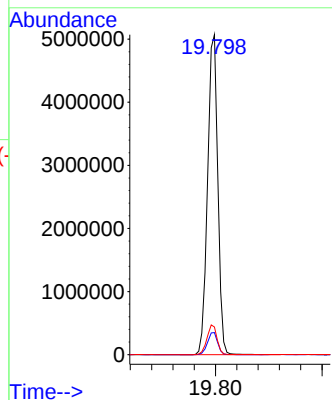
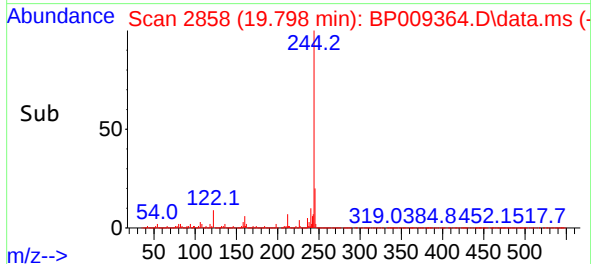
Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232



Tgt Ion:244 Resp: 6747309  
Ion Ratio Lower Upper  
244 100  
212 6.9 5.8 8.6  
122 8.6 8.3 12.5

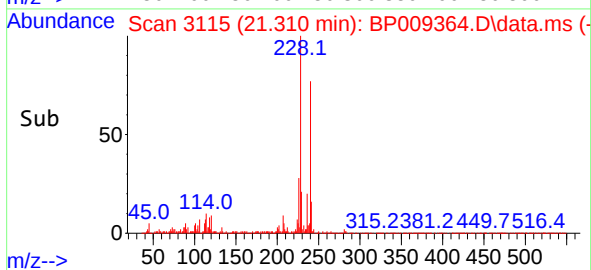
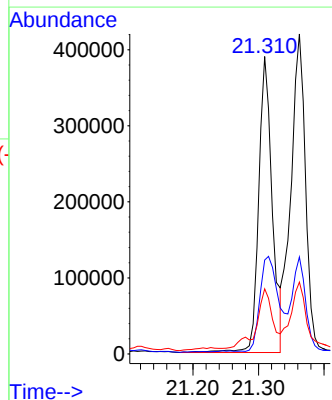
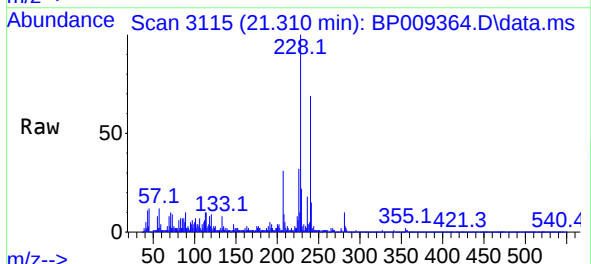
Manual Integrations  
APPROVED

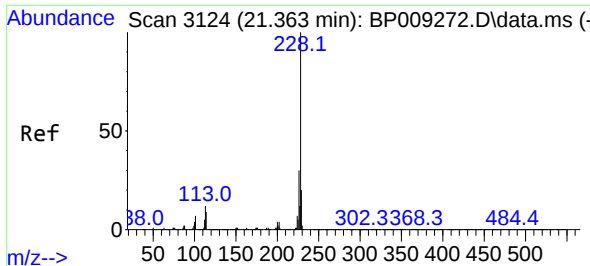
Reviewed By :Christian Giraldo 03/14/2022  
Supervised By :Jagrut Upadhyay 03/14/2022



#81  
Benzo(a)anthracene  
Concen: 4.147 ng  
RT: 21.310 min Scan# 3115  
Delta R.T. -0.000 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

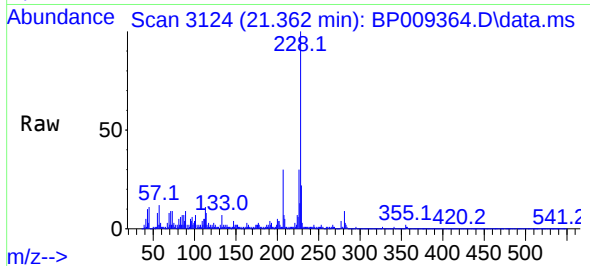
Tgt Ion:228 Resp: 557944  
Ion Ratio Lower Upper  
228 100  
226 31.6 22.0 33.0  
229 21.9 16.1 24.1





#83  
Chrysene  
Concen: 4.955 ng  
RT: 21.362 min Scan# 3124  
Delta R.T. -0.000 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

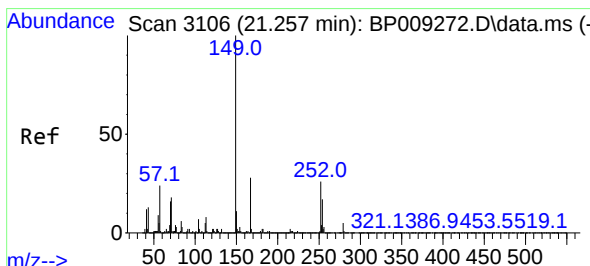
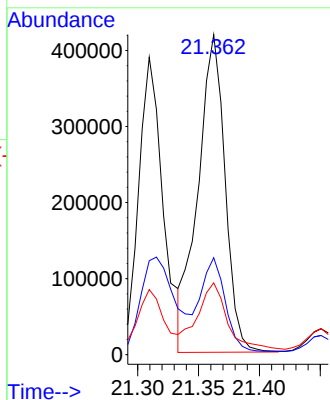
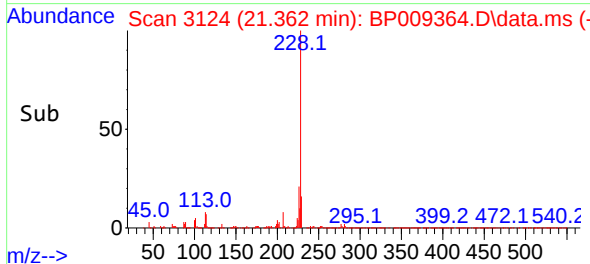
Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232



Tgt Ion:228 Resp: 647300  
Ion Ratio Lower Upper  
228 100  
226 30.3 24.2 36.2  
229 22.5 16.1 24.1

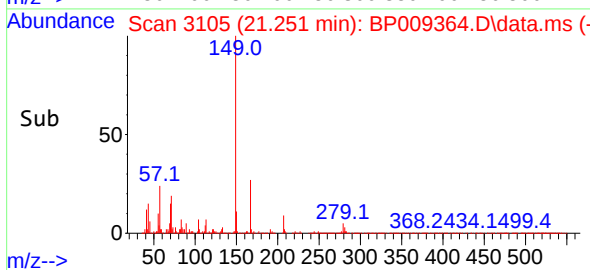
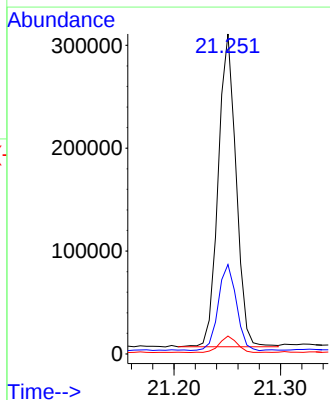
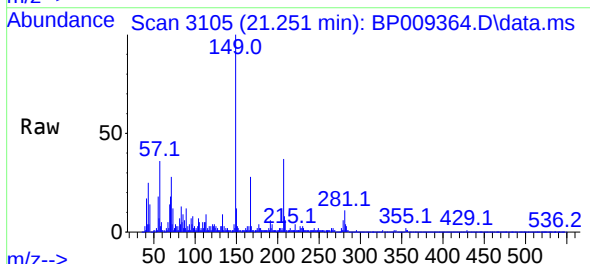
Manual Integrations  
APPROVED

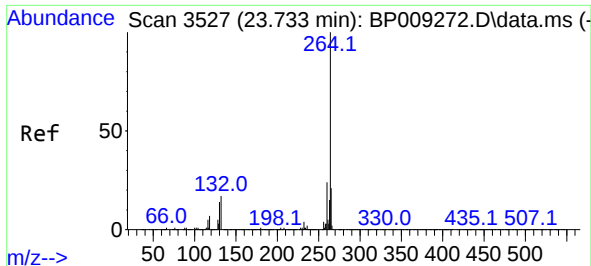
Reviewed By :Christian Giraldo 03/14/2022  
Supervised By :Jagrut Upadhyay 03/14/2022



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 4.565 ng  
RT: 21.251 min Scan# 3105  
Delta R.T. -0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

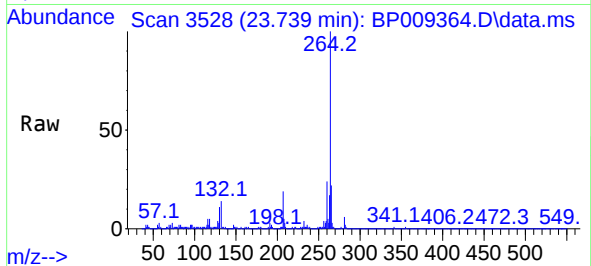
Tgt Ion:149 Resp: 353208  
Ion Ratio Lower Upper  
149 100  
167 28.0 22.6 33.8  
279 5.6 3.8 5.6





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.739 min Scan# 3527  
Delta R.T. 0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

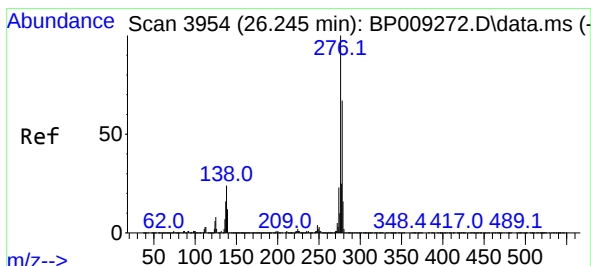
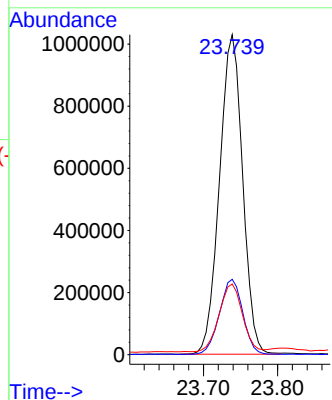
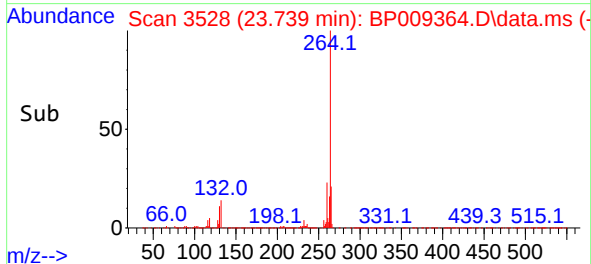
Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232



Tgt Ion:264 Resp: 222795  
Ion Ratio Lower Upper  
264 100  
260 23.5 19.4 29.0  
265 22.1 17.2 25.8

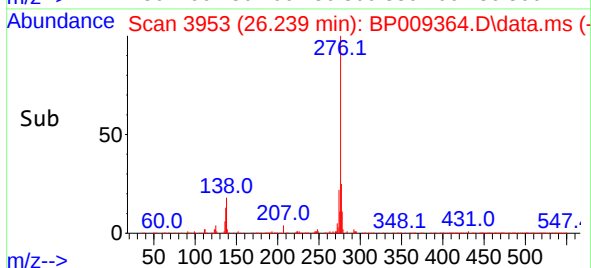
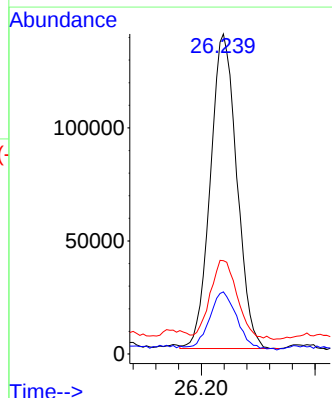
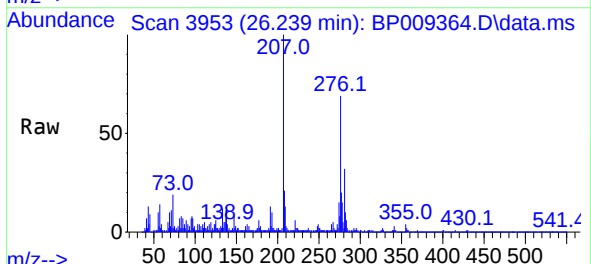
Manual Integrations  
APPROVED

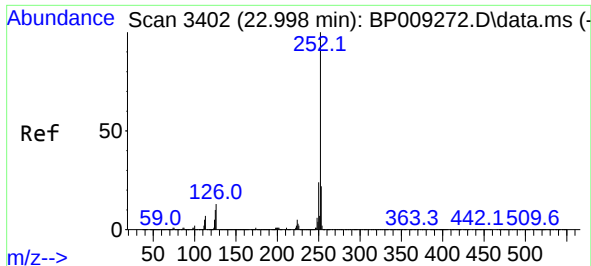
Reviewed By :Christian Giraldo 03/14/2022  
Supervised By :Jagrut Upadhyay 03/14/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.600 ng  
RT: 26.239 min Scan# 3953  
Delta R.T. -0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

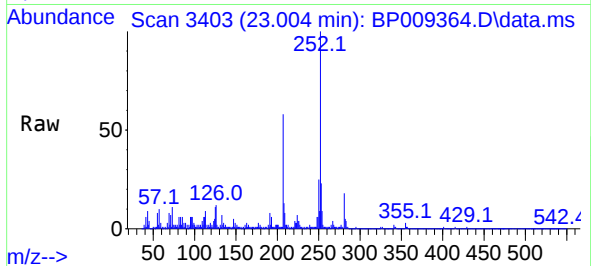
Tgt Ion:276 Resp: 450043  
Ion Ratio Lower Upper  
276 100  
138 19.4 20.5 30.7#  
277 26.1 20.4 30.6





#88  
Benzo(b)fluoranthene  
Concen: 5.426 ng m  
RT: 23.004 min Scan# 3402  
Delta R.T. 0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

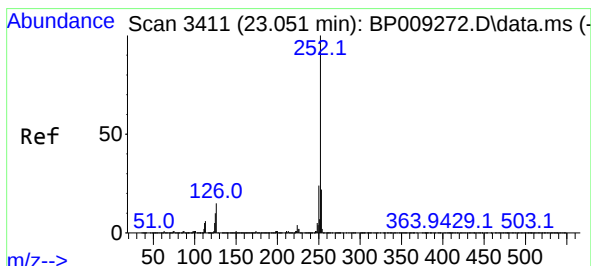
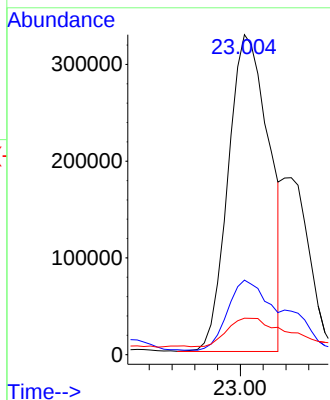
Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232



Tgt Ion:252 Resp: 816244  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.8 26.8  
125 11.4 8.1 12.1

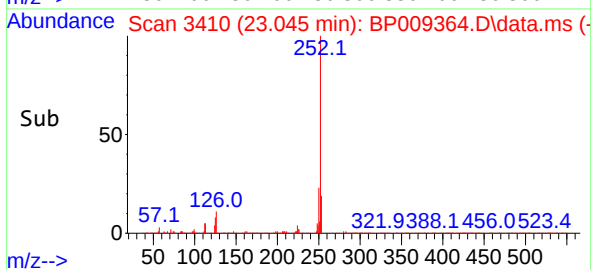
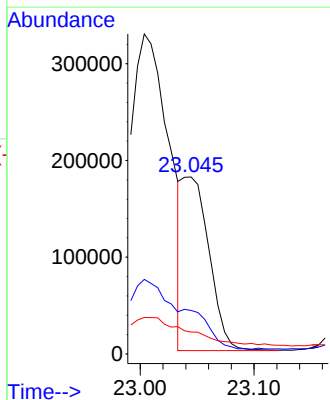
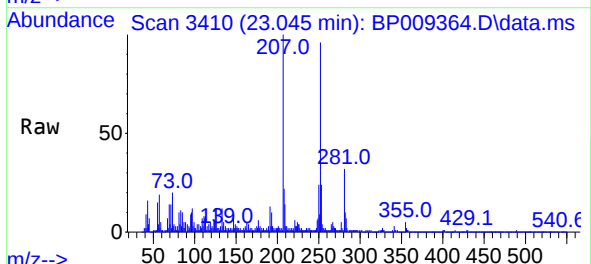
Manual Integrations  
APPROVED

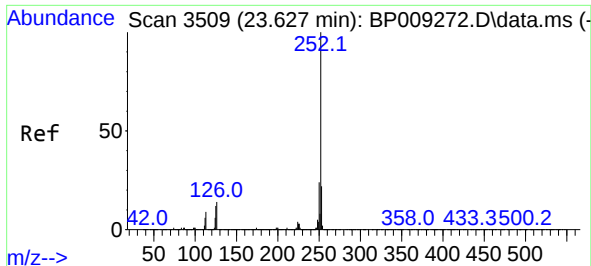
Reviewed By :Christian Giraldo 03/14/2022  
Supervised By :Jagrut Upadhyay 03/14/2022



#89  
Benzo(k)fluoranthene  
Concen: 2.048 ng m  
RT: 23.045 min Scan# 3410  
Delta R.T. -0.006 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

Tgt Ion:252 Resp: 294251  
Ion Ratio Lower Upper  
252 100  
253 24.6 17.5 26.3  
125 12.4 8.3 12.5





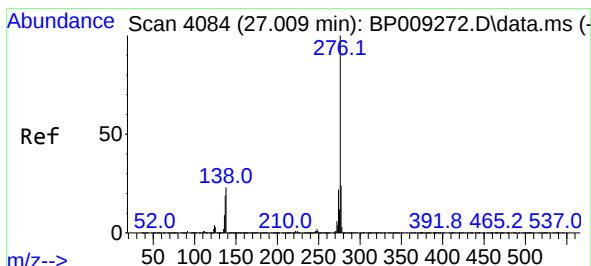
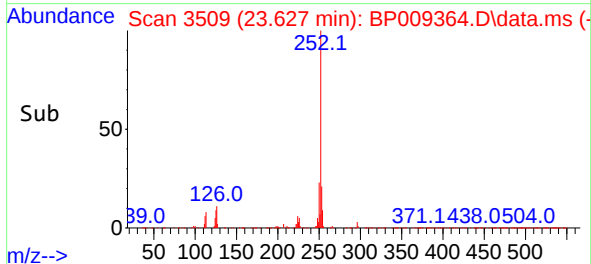
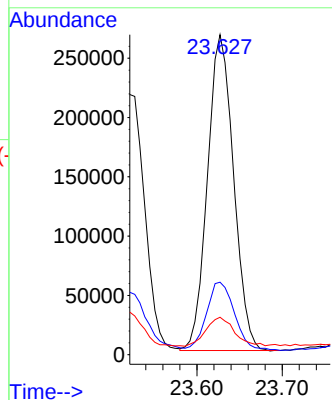
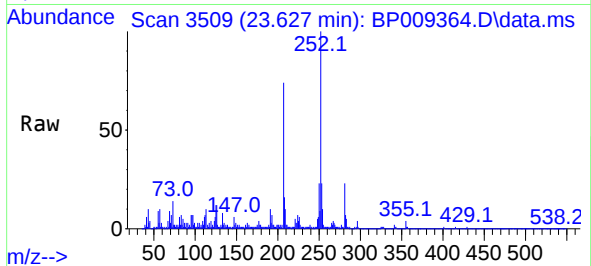
#90  
Benzo(a)pyrene  
Concen: 3.976 ng  
RT: 23.627 min Scan# 3509  
Delta R.T. -0.000 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

Instrument :  
BNA\_P  
ClientSampleId :  
VNJ-232

Tgt Ion:252 Resp: 56732  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.8 26.6  
125 11.7 9.3 13.9

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 03/14/2022  
Supervised By :Jagrut Upadhyay 03/14/2022



#92  
Benzo(g,h,i)perylene  
Concen: 3.211 ng  
RT: 27.009 min Scan# 4084  
Delta R.T. -0.000 min  
Lab File: BP009364.D  
Acq: 11 Mar 2022 14:44

Tgt Ion:276 Resp: 465645  
Ion Ratio Lower Upper  
276 100  
277 29.8 19.2 28.8#  
138 18.2 18.0 27.0

