

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120122\  
 Data File : BN023038.D  
 Acq On : 02 Dec 2022 04:56  
 Operator : CG/JU  
 Sample : N5757-01  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE117D1-20221121

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 12/02/2022  
 Supervised By : Jagrut Upadhyay 12/02/2022

Quant Time: Dec 02 05:33:03 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 02 02:30:10 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.057  | 152  | 4526     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.872 | 136  | 11721    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.688 | 164  | 5213     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.439 | 188  | 10188    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.616 | 240  | 6618     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 24.100 | 264  | 5031     | 0.400 | ng    | # 0.00   |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.594  | 112  | 1475     | 0.125 | ng    | 0.00     |
| 5) Phenol-d6                  | 7.204  | 99   | 1079     | 0.072 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 9.217  | 82   | 3521m    | 0.387 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.457 | 152  | 7110     | 0.280 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 16.185 | 330  | 591      | 0.235 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.319 | 172  | 9974     | 0.418 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.464 | 212  | 8701     | 0.314 | ng    | 0.00     |
| 31) Terphenyl-d14             | 20.058 | 244  | 6159     | 0.396 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.442  | 88   | 2319     | 0.404 | ng    | # 94     |
| 9) Naphthalene                | 10.925 | 128  | 871      | 0.024 | ng    | # 78     |
| 30) Pyrene                    | 19.856 | 202  | 718      | 0.021 | ng    | # 94     |
| 32) Benzo(a)anthracene        | 21.598 | 228  | 966      | 0.036 | ng    | # 88     |
| 33) Chrysene                  | 21.652 | 228  | 1219     | 0.044 | ng    | # 92     |
| 34) Bis(2-ethylhexyl)phtha... | 21.526 | 149  | 765      | 0.071 | ng    | # 94     |
| 36) Indeno(1,2,3-cd)pyrene    | 26.693 | 276  | 822      | 0.039 | ng    | # 90     |
| 37) Benzo(b)fluoranthene      | 23.337 | 252  | 1087     | 0.048 | ng    | # 27     |
| 38) Benzo(k)fluoranthene      | 23.387 | 252  | 952      | 0.039 | ng    | # 22     |
| 39) Benzo(a)pyrene            | 23.986 | 252  | 575      | 0.034 | ng    | # 1      |
| 40) Dibenzo(a,h)anthracene    | 26.717 | 278  | 748      | 0.045 | ng    | # 35     |
| 41) Benzo(g,h,i)perylene      | 27.491 | 276  | 750      | 0.042 | ng    | # 58     |
| -----                         |        |      |          |       |       |          |

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

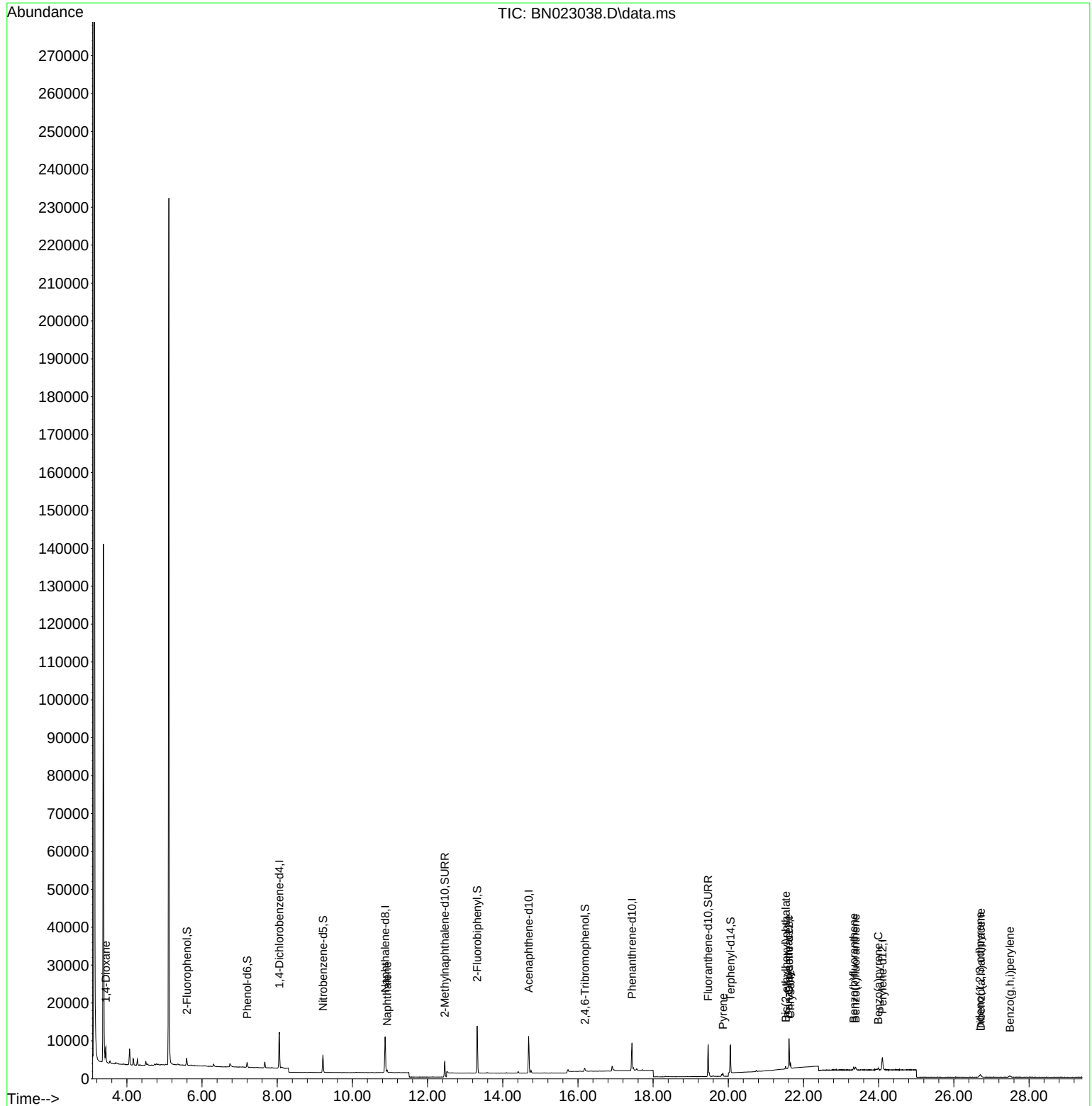
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN120122\  
Data File : BN023038.D  
Acq On : 02 Dec 2022 04:56  
Operator : CG/JU  
Sample : N5757-01  
Misc :  
ALS Vial : 27 Sample Multiplier: 1

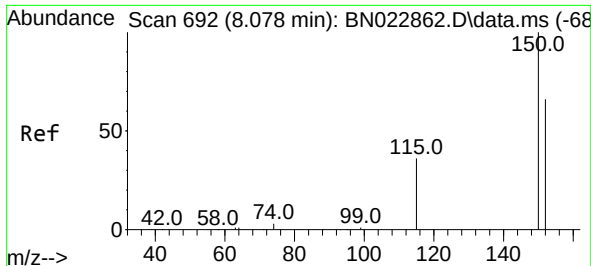
Instrument :  
BNA\_N  
ClientSampleId :  
RE117D1-20221121

Manual Integrations  
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Reviewed By :Christian Giraldo 12/02/2022  
Supervised By :Jagrut Upadhyay 12/02/2022

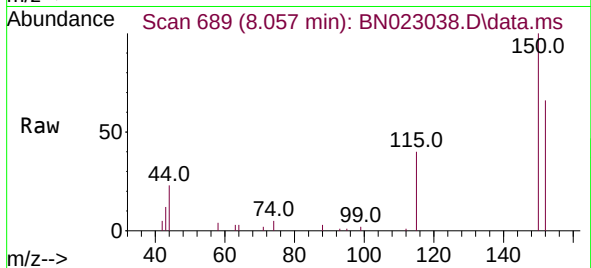
Quant Time: Dec 02 05:33:03 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN112522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 02 02:30:10 2022  
Response via : Initial Calibration





#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 8.057 min Scan# 68  
 Delta R.T. -0.000 min  
 Lab File: BN023038.D  
 Acq: 02 Dec 2022 04:56

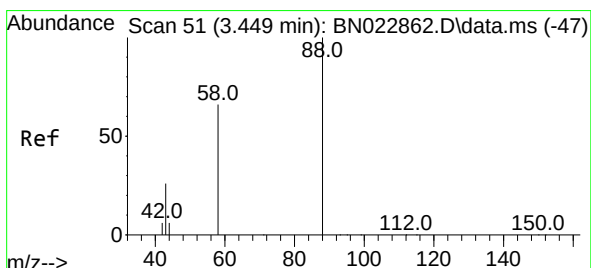
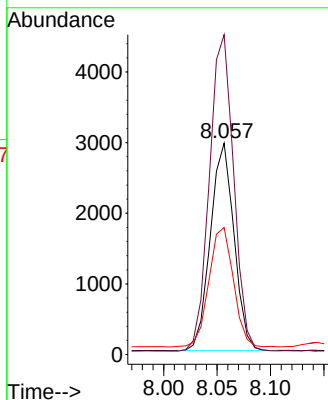
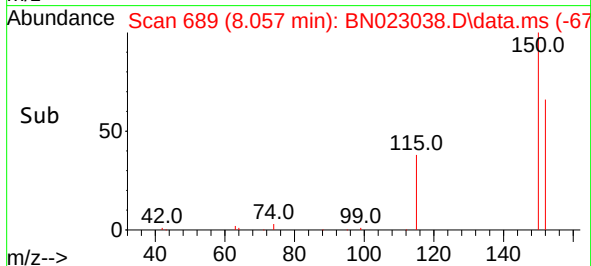
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE117D1-20221121



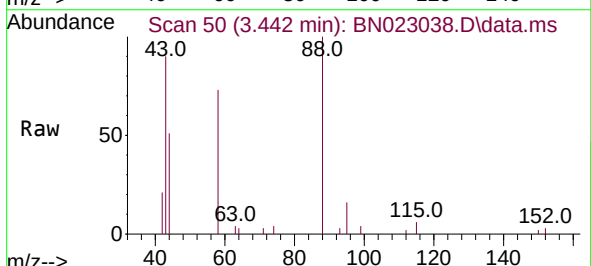
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 Ion Ratio Lower Upper  
 152 100  
 150 151.3 121.2 181.8  
 115 60.1 46.2 69.4

Manual Integrations  
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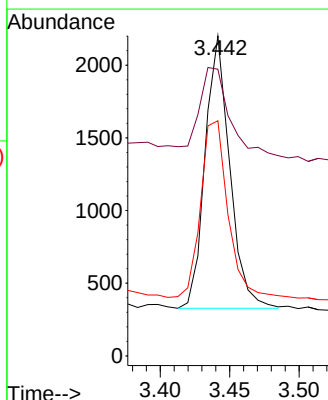
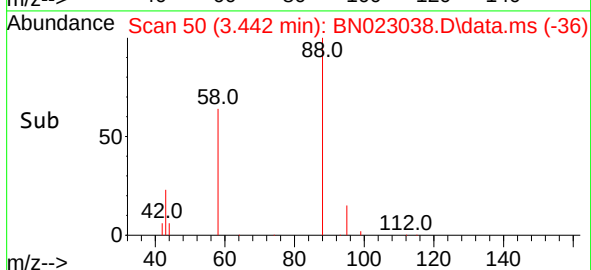
Reviewed By : Christian Giraldo 12/02/2022  
 Supervised By : Jagrut Upadhyay 12/02/2022

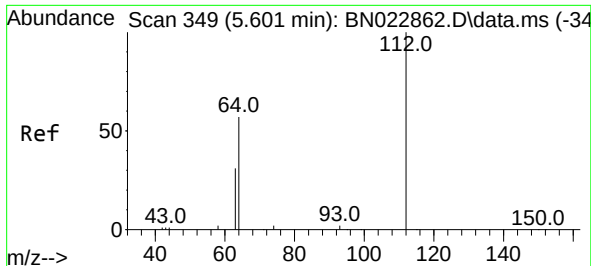


#2  
 1,4-Dioxane  
 Concen: 0.404 ng  
 RT: 3.442 min Scan# 50  
 Delta R.T. -0.000 min  
 Lab File: BN023038.D  
 Acq: 02 Dec 2022 04:56



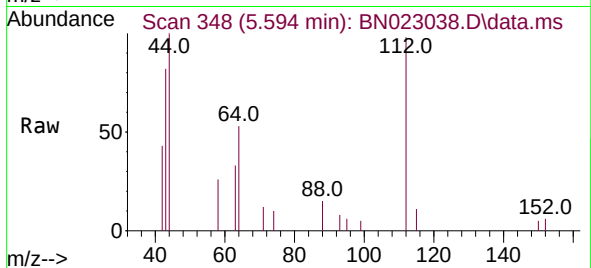
Tgt Ion: 88 Resp: 2319  
 Ion Ratio Lower Upper  
 88 100  
 43 42.0 25.4 38.2#  
 58 71.2 56.5 84.7





#4  
2-Fluorophenol  
Concen: 0.125 ng  
RT: 5.594 min Scan# 349  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

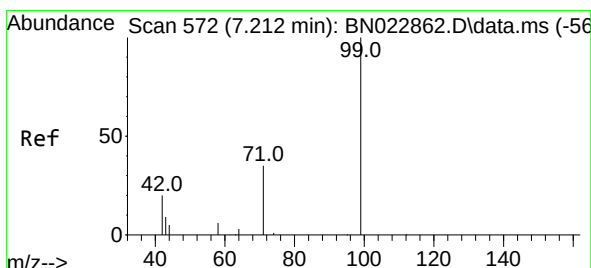
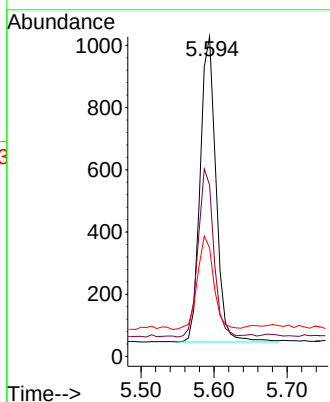
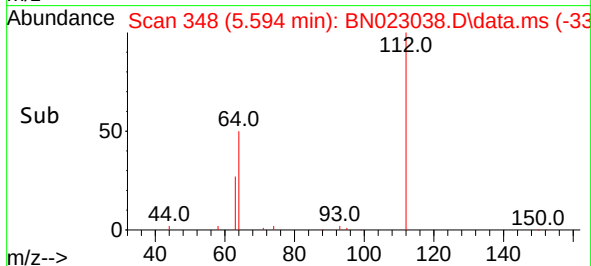
Instrument :  
BNA\_N  
ClientSampleId :  
RE117D1-20221121



Tgt Ion: 112 Resp: 1475  
Ion Ratio Lower Upper  
112 100  
64 54.6 43.4 65.2  
63 31.5 23.4 35.2

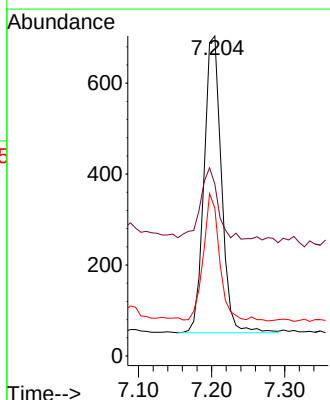
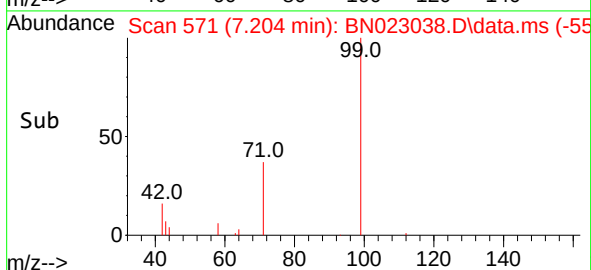
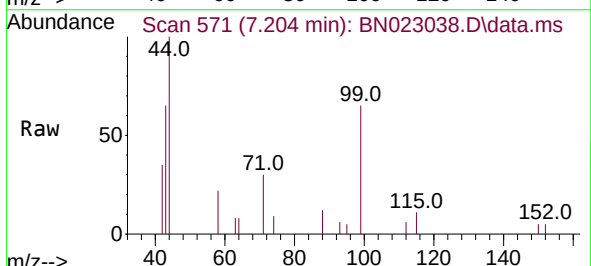
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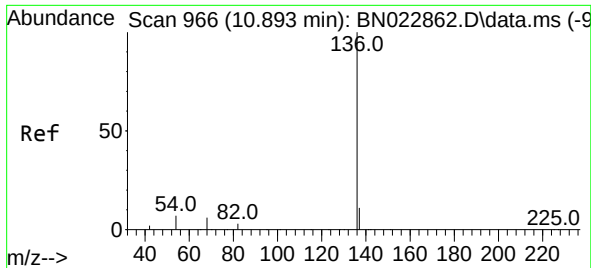
Reviewed By :Christian Giraldo 12/02/2022  
Supervised By :Jagrut Upadhyay 12/02/2022



#5  
Phenol-d6  
Concen: 0.072 ng  
RT: 7.204 min Scan# 571  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

Tgt Ion: 99 Resp: 1079  
Ion Ratio Lower Upper  
99 100  
42 23.4 16.0 24.0  
71 38.8 26.8 40.2





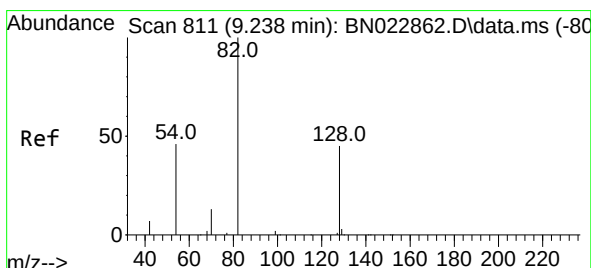
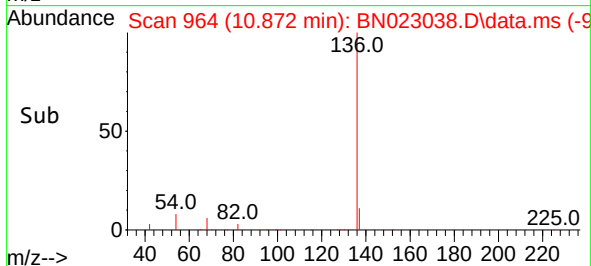
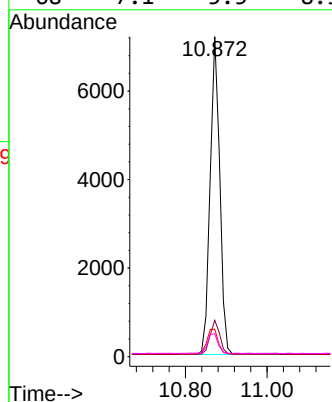
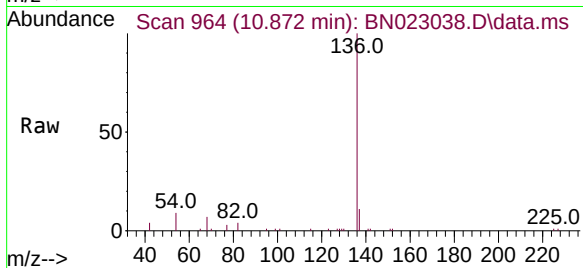
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.872 min Scan# 90  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

Instrument :  
BNA\_N  
ClientSampleId :  
RE117D1-20221121

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 1172 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 11.3  | 9.0   | 13.4 |
| 54        | 8.6   | 6.6   | 9.8  |
| 68        | 7.1   | 5.5   | 8.3  |

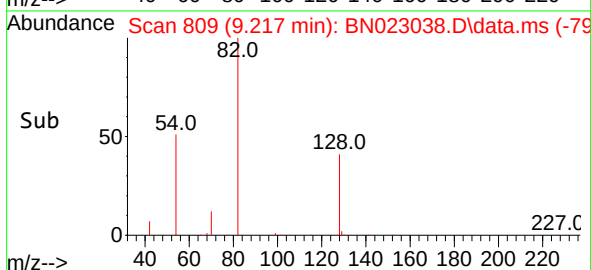
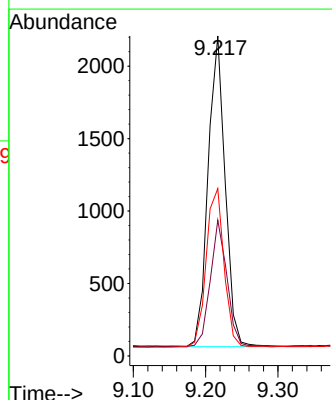
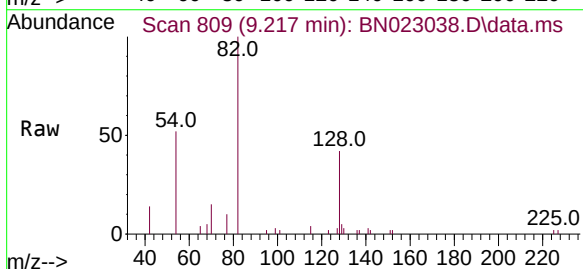
Manual Integrations  
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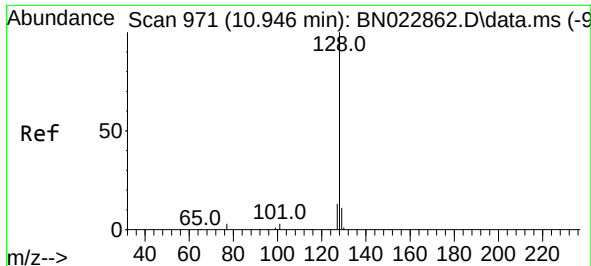
Reviewed By :Christian Giraldo 12/02/2022  
Supervised By :Jagrut Upadhyay 12/02/2022



#8  
Nitrobenzene-d5  
Concen: 0.387 ng m  
RT: 9.217 min Scan# 809  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 3521 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 42.4  | 36.6  | 54.8 |
| 54        | 52.3  | 38.5  | 57.7 |





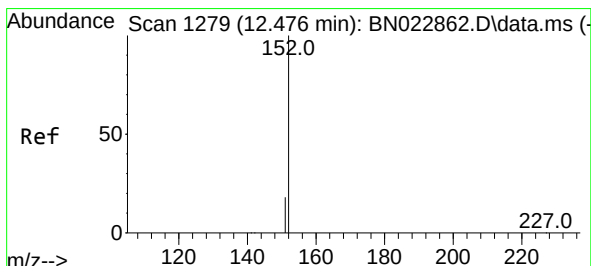
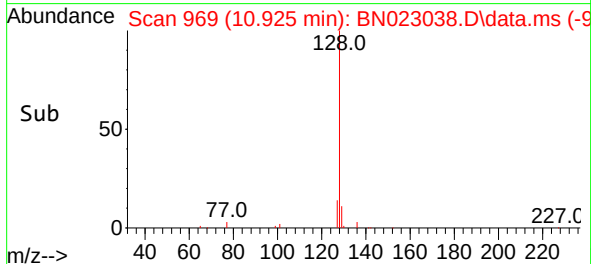
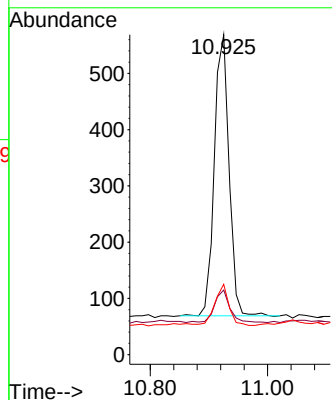
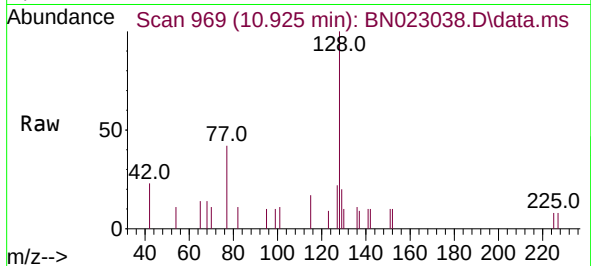
#9  
Naphthalene  
Concen: 0.024 ng  
RT: 10.925 min Scan# 90  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

Instrument :  
BNA\_N  
ClientSampleId :  
RE117D1-20221121

Tgt Ion:128 Resp: 87  
Ion Ratio Lower Upper  
128 100  
129 20.2 9.0 13.4  
127 22.0 10.8 16.2

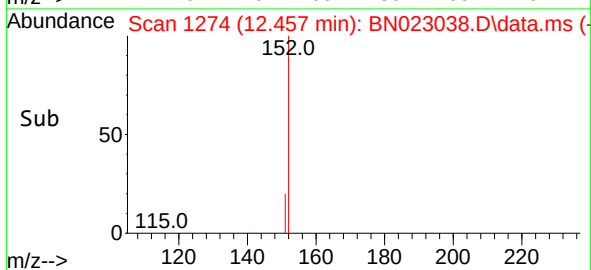
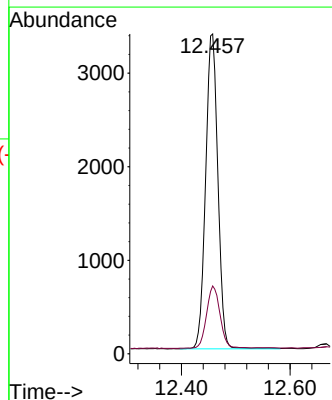
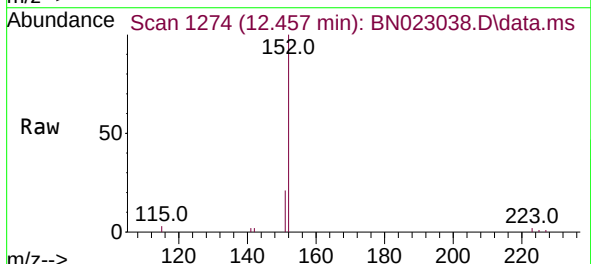
Manual Integrations  
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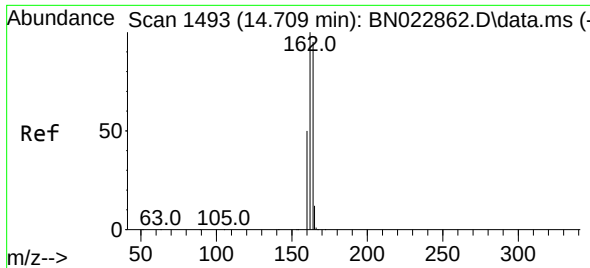
Reviewed By :Christian Giraldo 12/02/2022  
Supervised By :Jagrut Upadhyay 12/02/2022



#11  
2-Methylnaphthalene-d10  
Concen: 0.280 ng  
RT: 12.457 min Scan# 1274  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

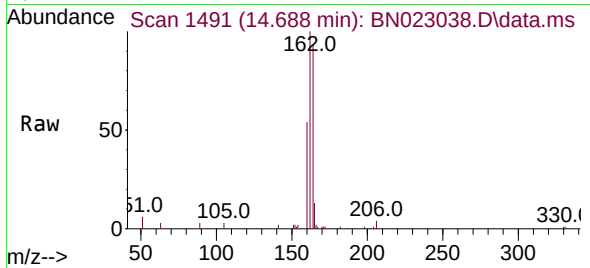
Tgt Ion:152 Resp: 7110  
Ion Ratio Lower Upper  
152 100  
151 18.0 18.6 27.8





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.688 min Scan# 1491  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

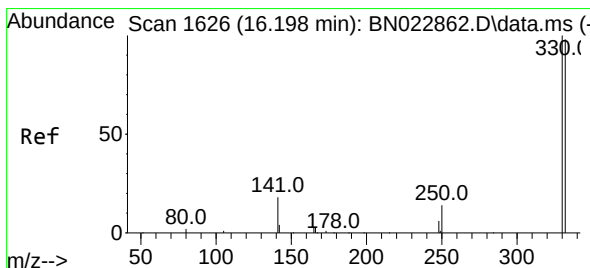
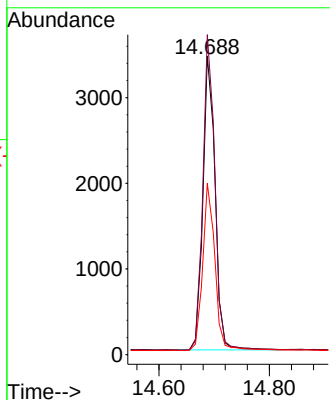
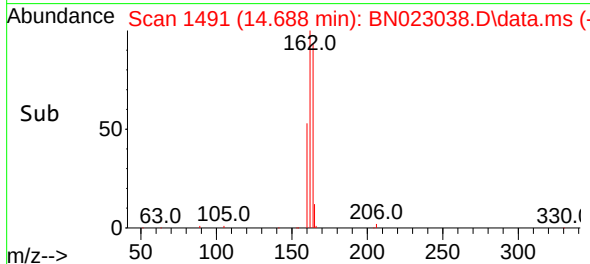
Instrument :  
BNA\_N  
ClientSampleId :  
RE117D1-20221121



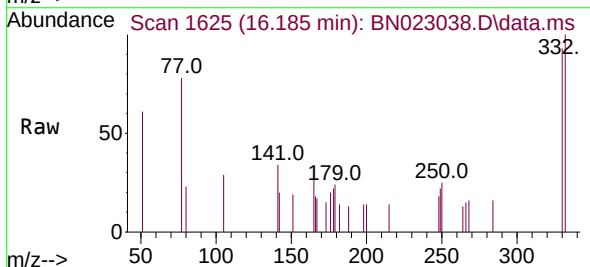
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Ion Ratio Lower Upper  
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160 57.4 42.5 63.7

Manual Integrations  
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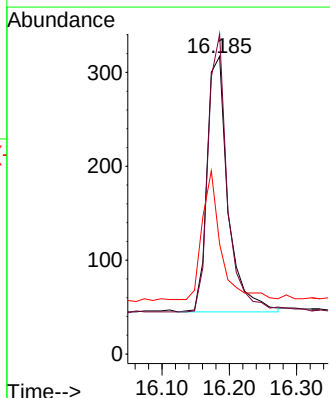
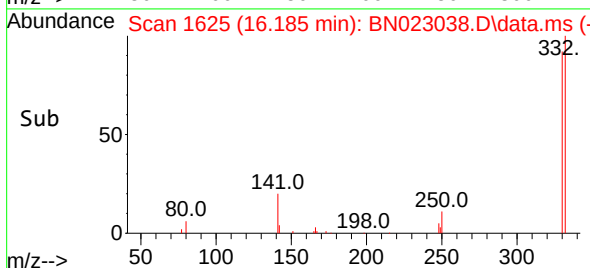
Reviewed By :Christian Giraldo 12/02/2022  
Supervised By :Jagrut Upadhyay 12/02/2022

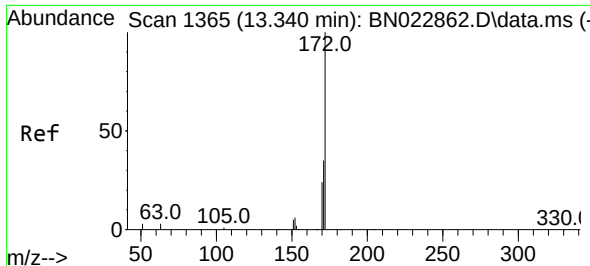


#14  
2,4,6-Tribromophenol  
Concen: 0.235 ng  
RT: 16.185 min Scan# 1625  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56



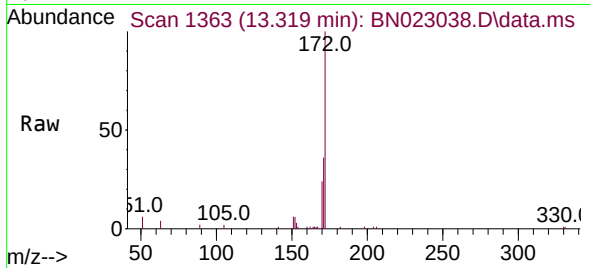
Tgt Ion:330 Resp: 591  
Ion Ratio Lower Upper  
330 100  
332 100.5 76.5 114.7  
141 44.3 32.6 48.8





#15  
2-Fluorobiphenyl  
Concen: 0.418 ng  
RT: 13.319 min Scan# 1363  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

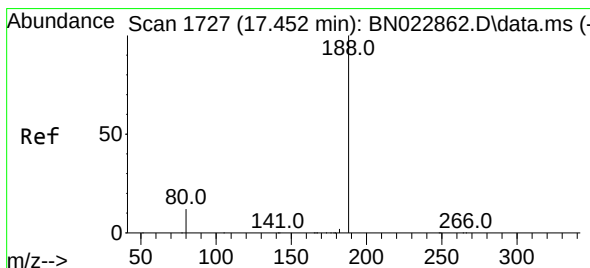
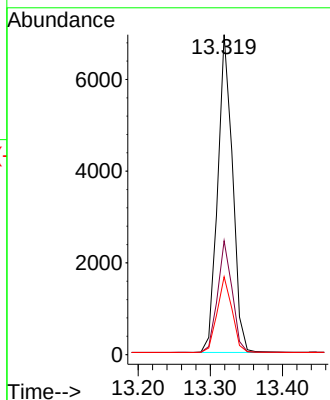
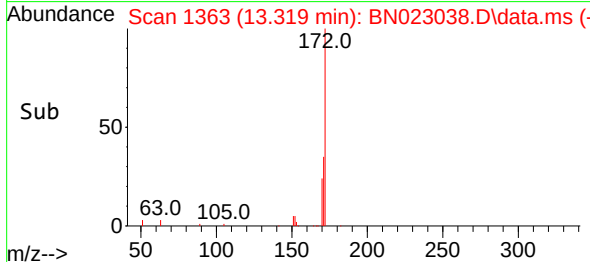
Instrument :  
BNA\_N  
ClientSampleId :  
RE117D1-20221121



Tgt Ion:172 Resp: 9974  
Ion Ratio Lower Upper  
172 100  
171 35.6 28.2 42.4  
170 24.3 19.3 28.9

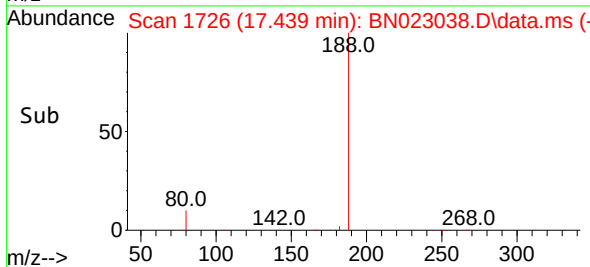
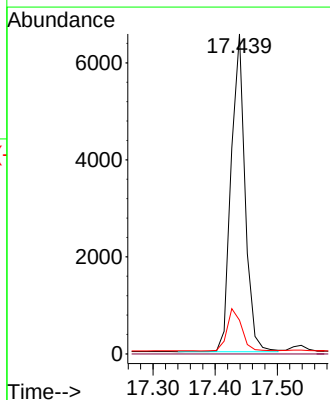
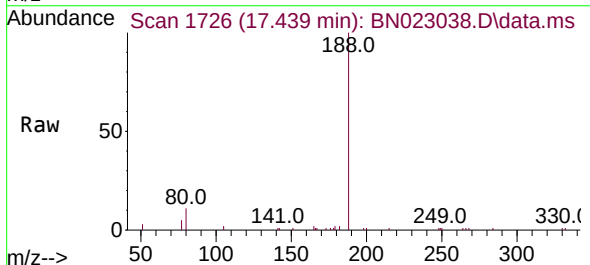
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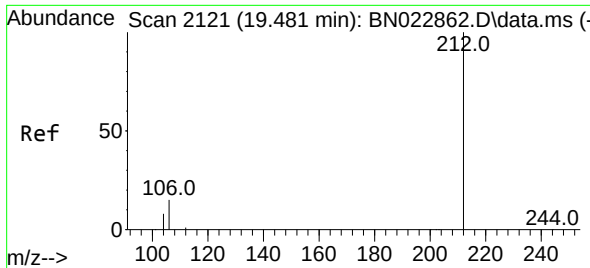


#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.439 min Scan# 1726  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

Tgt Ion:188 Resp: 10188  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 10.5 10.3 15.5

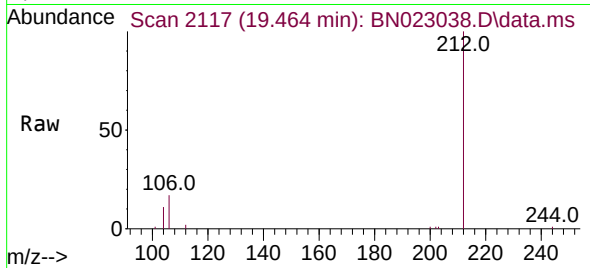






#27  
Fluoranthene-d10  
Concen: 0.314 ng  
RT: 19.464 min Scan# 2117  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

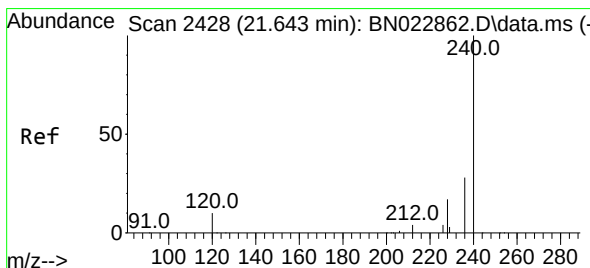
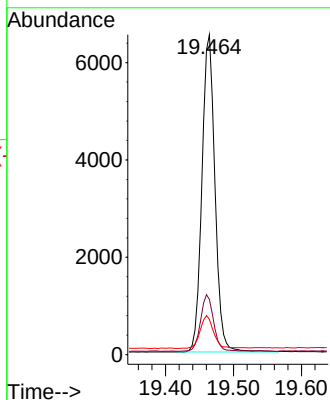
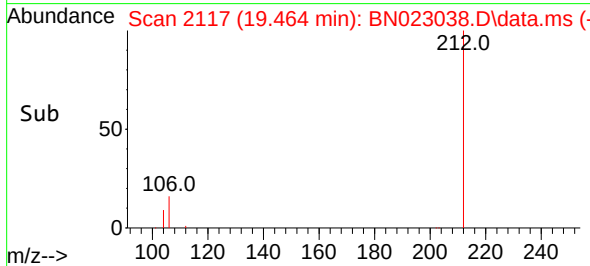
Instrument :  
BNA\_N  
ClientSampleId :  
RE117D1-20221121



Tgt Ion:212 Resp: 8701  
Ion Ratio Lower Upper  
212 100  
106 17.8 12.3 18.5  
104 10.5 7.0 10.4

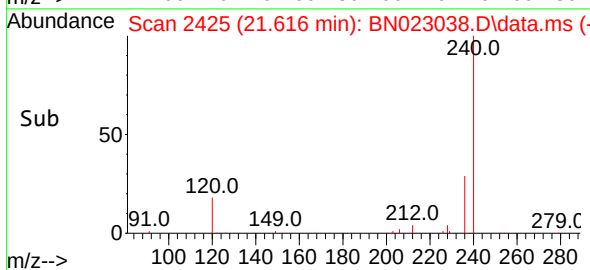
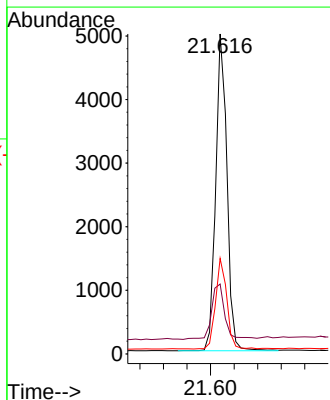
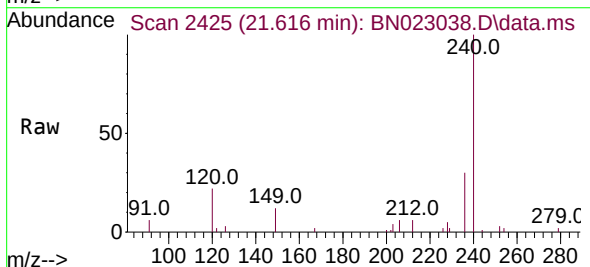
Manual Integrations  
APPROVED

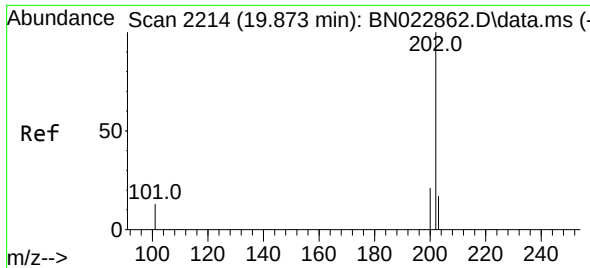
Reviewed By :Christian Giraldo 12/02/2022  
Supervised By :Jagrut Upadhyay 12/02/2022



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.616 min Scan# 2425  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

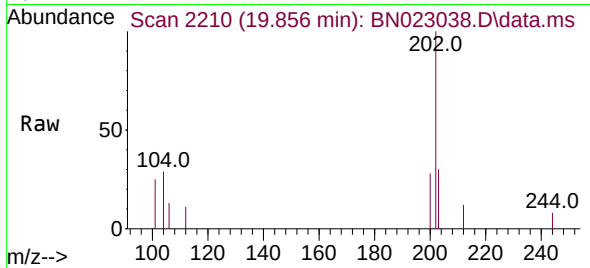
Tgt Ion:240 Resp: 6618  
Ion Ratio Lower Upper  
240 100  
120 21.8 9.2 13.8  
236 29.8 22.6 34.0





#30  
Pyrene  
Concen: 0.021 ng  
RT: 19.856 min Scan# 2210  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

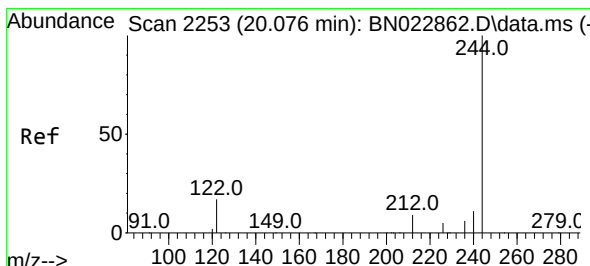
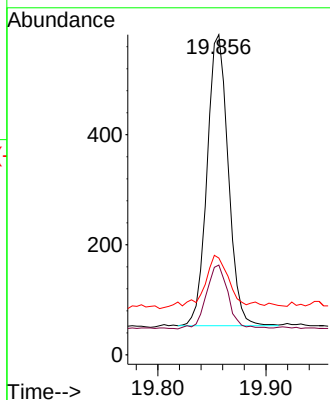
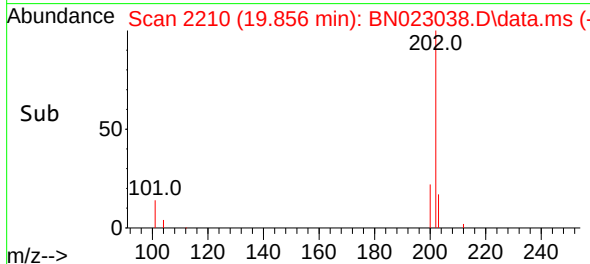
Instrument :  
BNA\_N  
ClientSampleId :  
RE117D1-20221121



Tgt Ion:202 Resp: 718  
Ion Ratio Lower Upper  
202 100  
200 23.0 17.0 25.4  
203 21.4 14.2 21.2

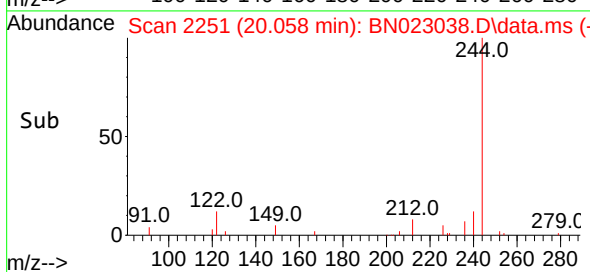
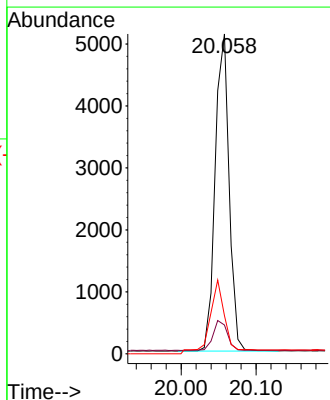
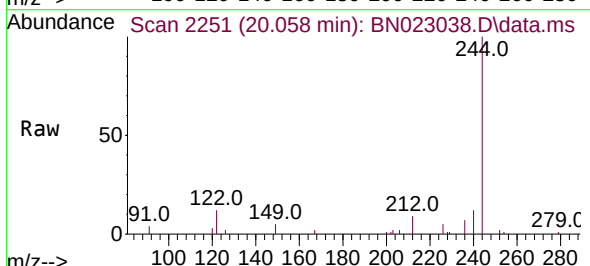
Manual Integrations  
APPROVED

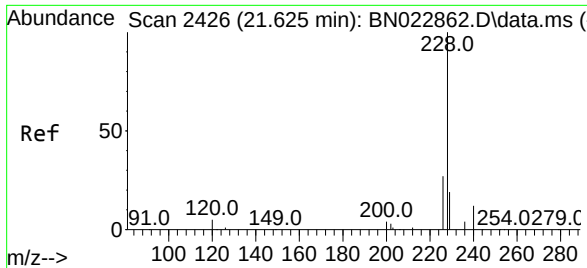
Reviewed By :Christian Giraldo 12/02/2022  
Supervised By :Jagrut Upadhyay 12/02/2022



#31  
Terphenyl-d14  
Concen: 0.396 ng  
RT: 20.058 min Scan# 2251  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

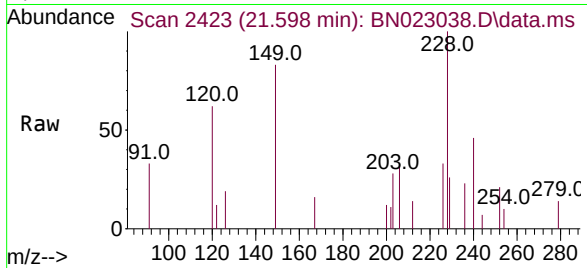
Tgt Ion:244 Resp: 6159  
Ion Ratio Lower Upper  
244 100  
212 9.0 7.9 11.9  
122 12.0 13.9 20.9





#32  
Benzo(a)anthracene  
Concen: 0.036 ng  
RT: 21.598 min Scan# 2423  
Delta R.T. -0.009 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

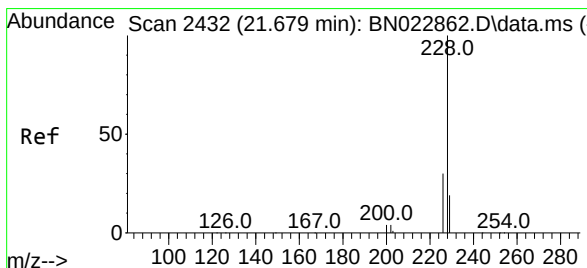
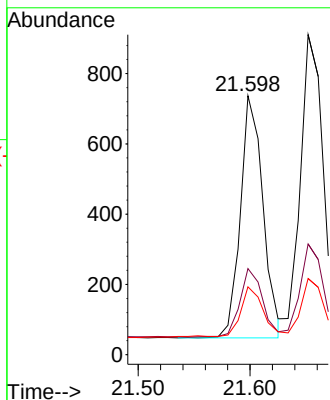
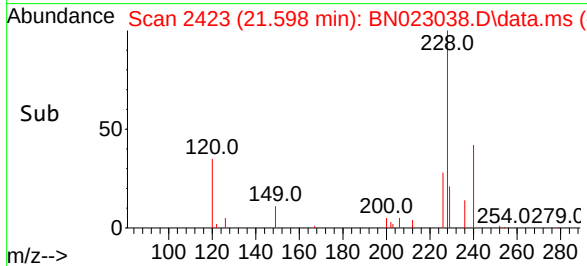
Instrument :  
BNA\_N  
ClientSampleId :  
RE117D1-20221121



Tgt Ion:228 Resp: 966  
Ion Ratio Lower Upper  
228 100  
226 33.2 22.1 33.1  
229 26.2 15.8 23.6

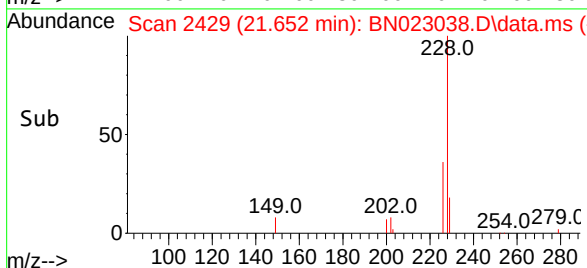
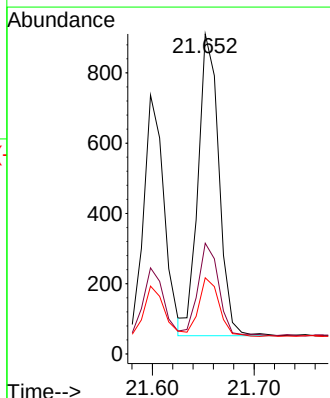
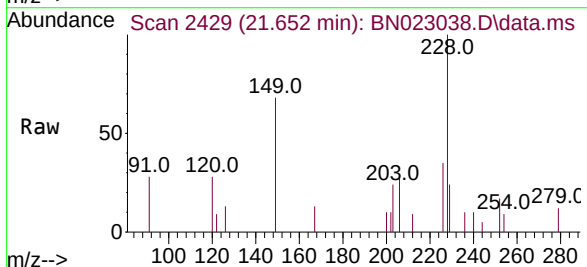
Manual Integrations  
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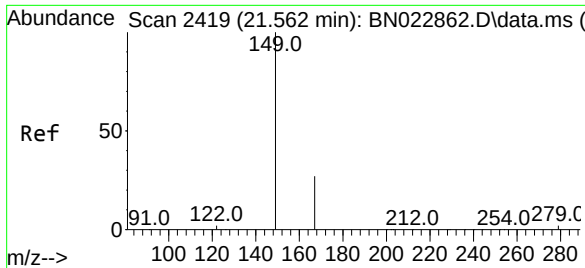
Reviewed By :Christian Giraldo 12/02/2022  
Supervised By :Jagrut Upadhyay 12/02/2022



#33  
Chrysene  
Concen: 0.044 ng  
RT: 21.652 min Scan# 2429  
Delta R.T. -0.009 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

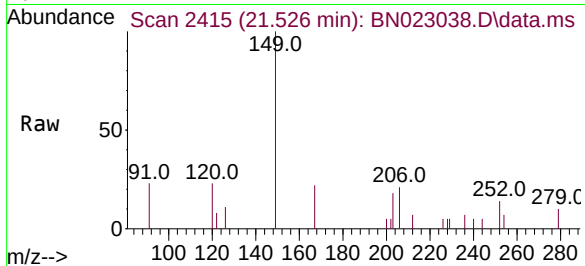
Tgt Ion:228 Resp: 1219  
Ion Ratio Lower Upper  
228 100  
226 34.6 24.5 36.7  
229 23.8 15.8 23.6





#34  
 Bis(2-ethylhexyl)phthalate  
 Concen: 0.071 ng  
 RT: 21.526 min Scan# 2419  
 Delta R.T. -0.000 min  
 Lab File: BN023038.D  
 Acq: 02 Dec 2022 04:56

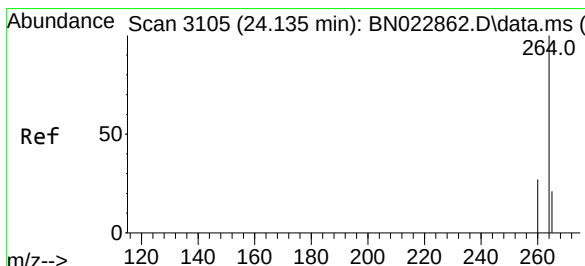
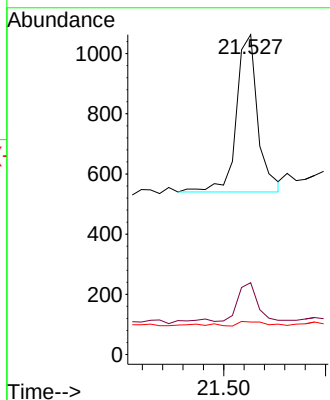
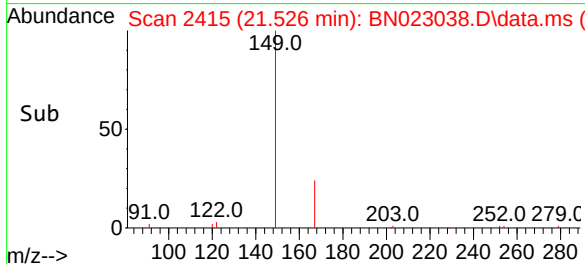
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RE117D1-20221121



Tgt Ion:149 Resp: 765  
 Ion Ratio Lower Upper  
 149 100  
 167 23.4 21.3 31.9  
 279 3.7 2.3 3.5

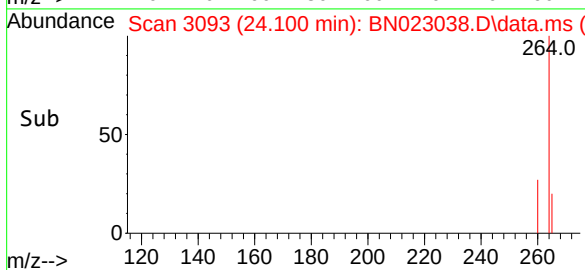
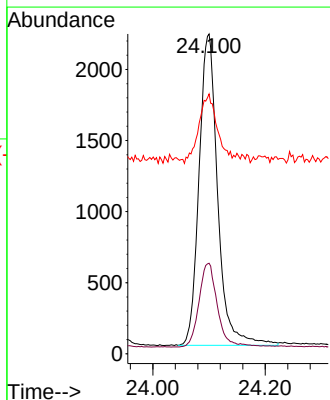
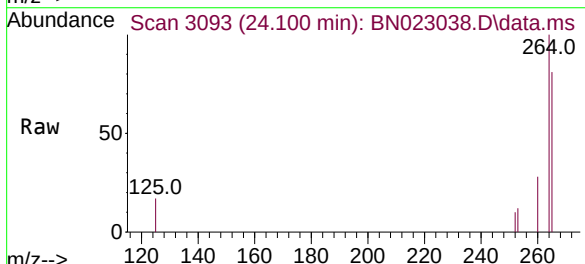
Manual Integrations  
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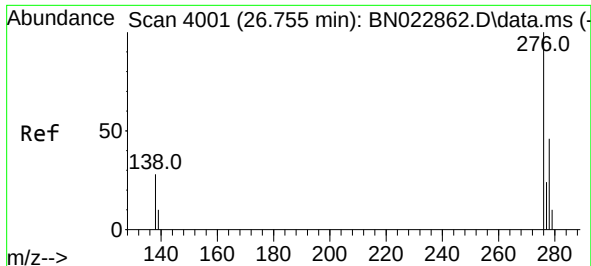
Reviewed By :Christian Giraldo 12/02/2022  
 Supervised By :Jagrut Upadhyay 12/02/2022



#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 24.100 min Scan# 3093  
 Delta R.T. -0.003 min  
 Lab File: BN023038.D  
 Acq: 02 Dec 2022 04:56

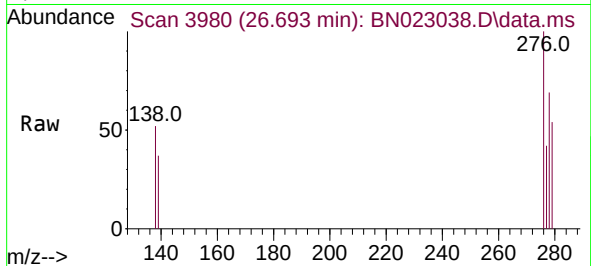
Tgt Ion:264 Resp: 5031  
 Ion Ratio Lower Upper  
 264 100  
 260 28.3 21.7 32.5  
 265 81.2 31.0 46.4





#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.039 ng  
RT: 26.693 min Scan# 3980  
Delta R.T. -0.003 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

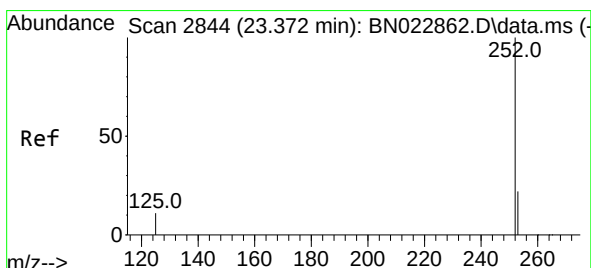
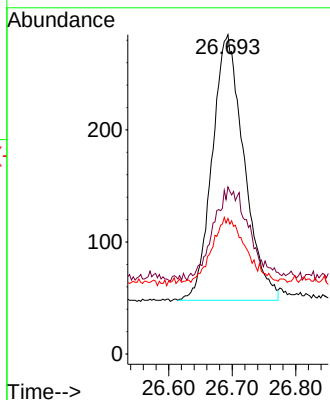
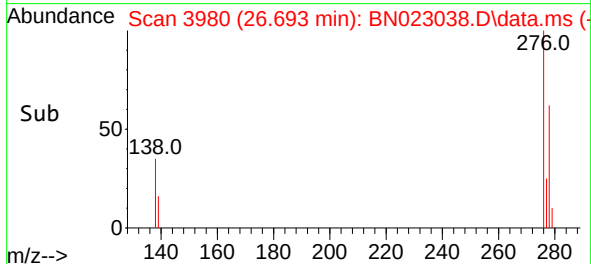
Instrument :  
BNA\_N  
ClientSampleId :  
RE117D1-20221121



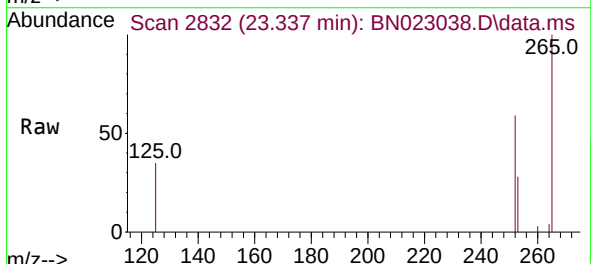
Tgt Ion: 276 Resp: 822  
Ion Ratio Lower Upper  
276 100  
138 39.9 24.4 36.6#  
277 23.8 19.9 29.9#

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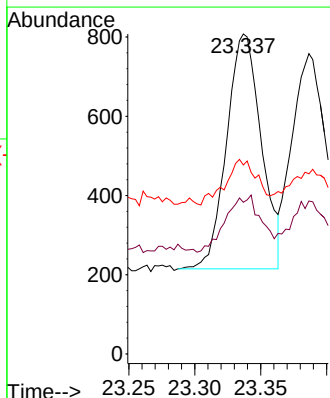
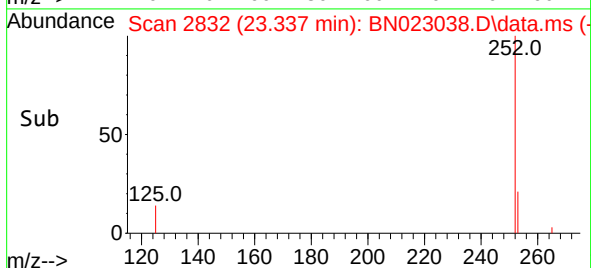
Reviewed By : Christian Giraldo 12/02/2022  
Supervised By : Jagrut Upadhyay 12/02/2022

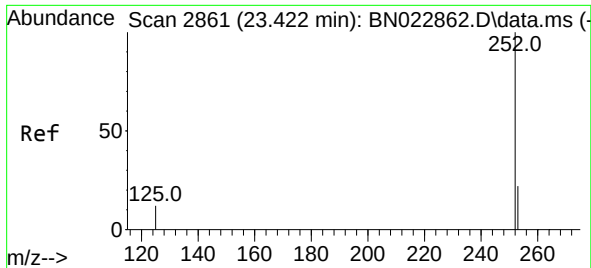


#37  
Benzo(b)fluoranthene  
Concen: 0.048 ng  
RT: 23.337 min Scan# 2832  
Delta R.T. -0.003 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56



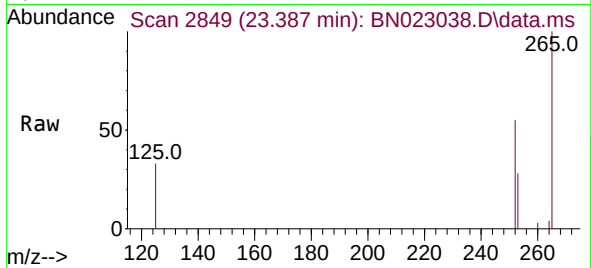
Tgt Ion: 252 Resp: 1087  
Ion Ratio Lower Upper  
252 100  
253 47.4 18.5 27.7#  
125 59.0 10.8 16.2#





#38  
Benzo(k)fluoranthene  
Concen: 0.039 ng  
RT: 23.387 min Scan# 2849  
Delta R.T. -0.003 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

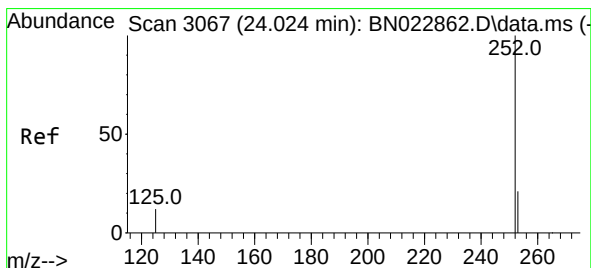
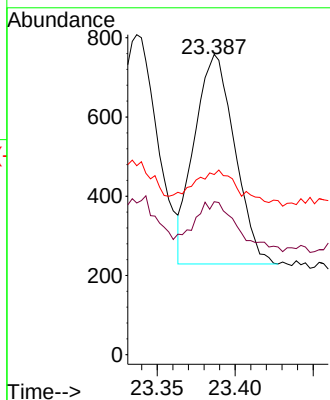
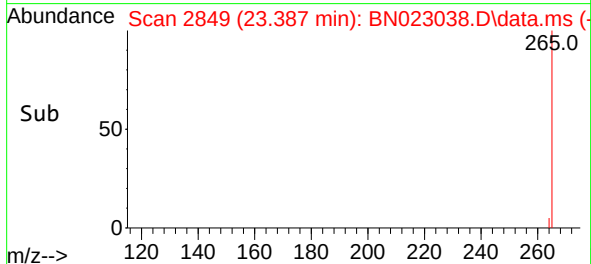
Instrument :  
BNA\_N  
ClientSampleId :  
RE117D1-20221121



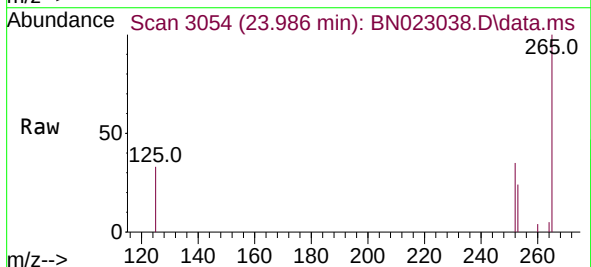
Tgt Ion:252 Resp: 952  
Ion Ratio Lower Upper  
252 100  
253 50.9 18.6 27.8#  
125 60.0 11.0 16.4#

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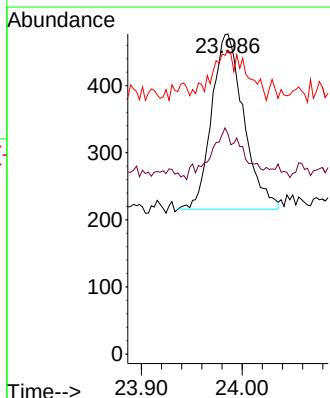
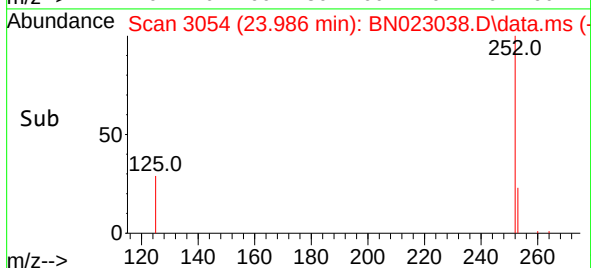
Reviewed By :Christian Giraldo 12/02/2022  
Supervised By :Jagrut Upadhyay 12/02/2022

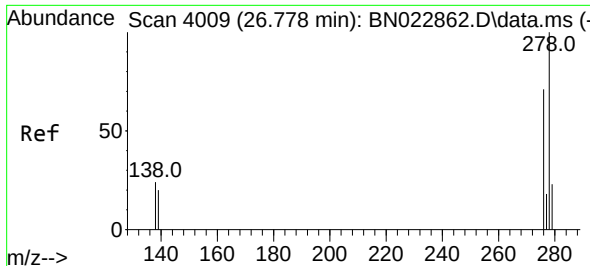


#39  
Benzo(a)pyrene  
Concen: 0.034 ng  
RT: 23.986 min Scan# 3054  
Delta R.T. -0.006 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56



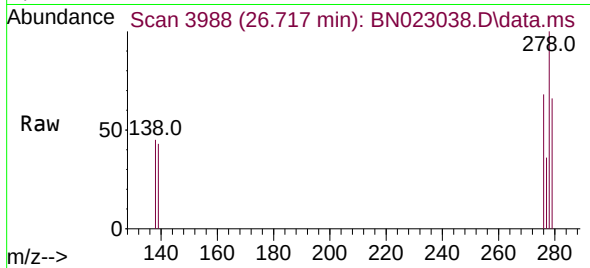
Tgt Ion:252 Resp: 575  
Ion Ratio Lower Upper  
252 100  
253 68.8 19.2 28.8#  
125 95.0 12.7 19.1#





#40  
Dibenzo(a,h)anthracene  
Concen: 0.045 ng  
RT: 26.717 min Scan# 3988  
Delta R.T. -0.000 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56

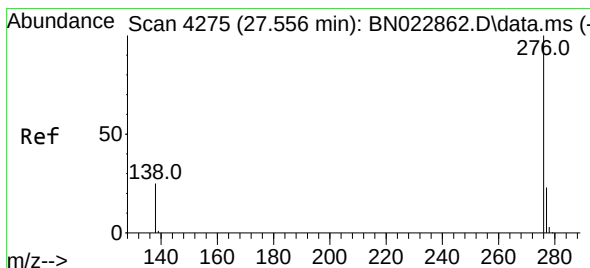
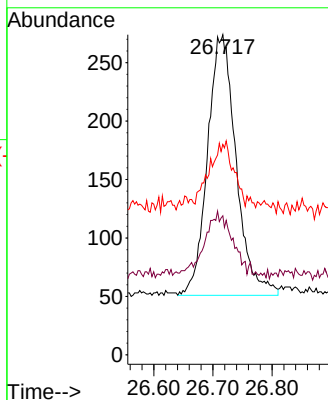
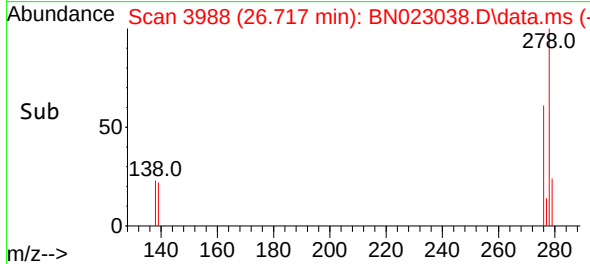
Instrument :  
BNA\_N  
ClientSampleId :  
RE117D1-20221121



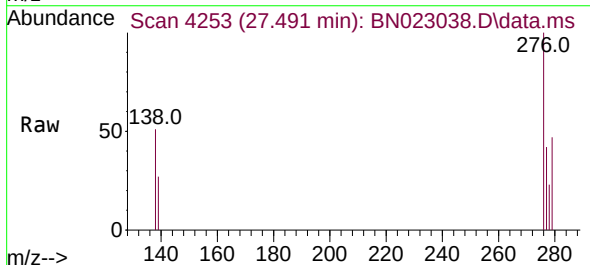
Tgt Ion:278 Resp: 748  
Ion Ratio Lower Upper  
278 100  
139 43.4 17.4 26.0#  
279 65.7 20.0 30.0#

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 12/02/2022  
Supervised By :Jagrut Upadhyay 12/02/2022



#41  
Benzo(g,h,i)perylene  
Concen: 0.042 ng  
RT: 27.491 min Scan# 4253  
Delta R.T. -0.003 min  
Lab File: BN023038.D  
Acq: 02 Dec 2022 04:56



Tgt Ion:276 Resp: 750  
Ion Ratio Lower Upper  
276 100  
277 42.4 19.7 29.5#  
138 51.4 21.4 32.2#

