

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN011023\  
 Data File : BN023601.D  
 Acq On : 10 Jan 2023 12:50  
 Operator : CG/JU  
 Sample : N4239-04  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MDL-SOIL-QT3-2022-06

Quant Time: Jan 10 13:41:26 2023  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN010323.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 04 00:28:51 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 01/11/2023  
 Supervised By :mohammad ahmed 01/12/2023

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.947  | 152  | 3721     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.764 | 136  | 11311    | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.602 | 164  | 6232     | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.351 | 188  | 13591    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.540 | 240  | 10847    | 0.400 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 23.964 | 264  | 8496     | 0.400 | ng/ul  | # 0.00   |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.302  | 96   | 1987     | 0.482 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.354 | 152  | 5280     | 0.304 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.377 | 212  | 11649    | 0.367 | ng/ul  | 0.00     |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       | Qvalue |          |
| 2) 1,4-Dioxane              | 3.336  | 88   | 294m     | 0.068 | ng/ul  |          |
| 5) Naphthalene              | 10.814 | 128  | 1903     | 0.058 | ng/ul# | 91       |
| 7) 2-Methylnaphthalene      | 12.425 | 142  | 1149     | 0.055 | ng/ul  | 98       |
| 8) 1-Methylnaphthalene      | 12.645 | 142  | 1132     | 0.053 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.320 | 152  | 1397     | 0.055 | ng/ul# | 88       |
| 11) Acenaphthene            | 14.662 | 153  | 1315     | 0.059 | ng/ul  | 97       |
| 12) Fluorene                | 15.652 | 166  | 1442     | 0.056 | ng/ul# | 99       |
| 14) Pentachlorophenol       | 17.000 | 266  | 386      | 0.088 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.389 | 178  | 2466     | 0.058 | ng/ul# | 93       |
| 16) Anthracene              | 17.482 | 178  | 1886     | 0.052 | ng/ul# | 89       |
| 19) Fluoranthene            | 19.410 | 202  | 2871     | 0.070 | ng/ul  | 96       |
| 20) Pyrene                  | 19.772 | 202  | 2861     | 0.066 | ng/ul# | 92       |
| 21) Benzo(a)anthracene      | 21.523 | 228  | 2258     | 0.056 | ng/ul  | 96       |
| 22) Chrysene                | 21.575 | 228  | 2608     | 0.065 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 23.224 | 252  | 2533     | 0.064 | ng/ul# | 56       |
| 25) Benzo(k)fluoranthene    | 23.271 | 252  | 2323     | 0.063 | ng/ul# | 55       |
| 26) Benzo(a)pyrene          | 23.855 | 252  | 1949     | 0.060 | ng/ul# | 23       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.490 | 276  | 2435     | 0.060 | ng/ul# | 96       |
| 28) Dibenzo(a,h)anthracene  | 26.510 | 278  | 1885     | 0.059 | ng/ul# | 65       |
| 29) Benzo(g,h,i)perylene    | 27.268 | 276  | 2122     | 0.065 | ng/ul# | 82       |
| -----                       |        |      |          |       |        |          |

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

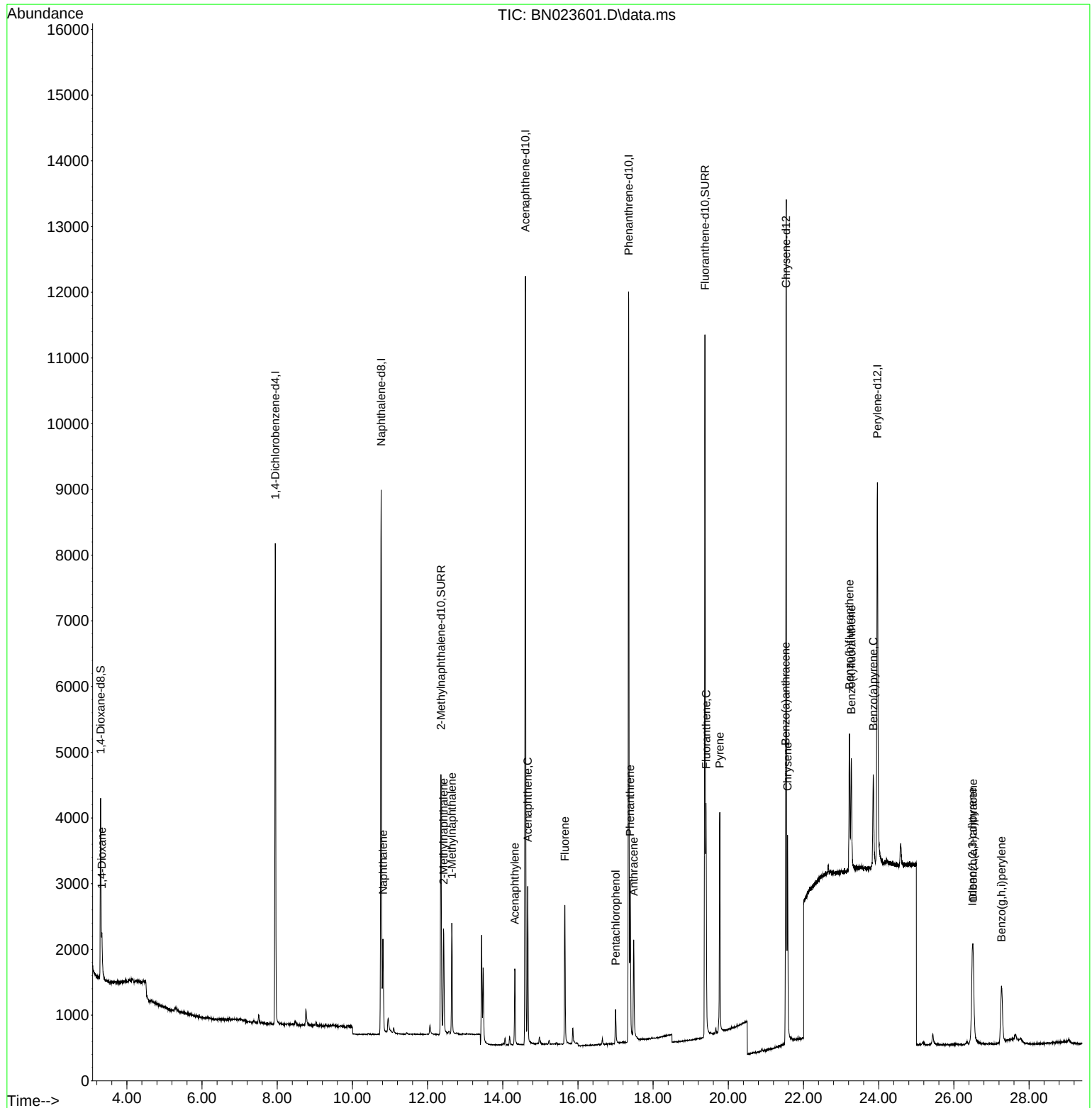
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN011023\  
Data File : BN023601.D  
Acq On : 10 Jan 2023 12:50  
Operator : CG/JU  
Sample : N4239-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

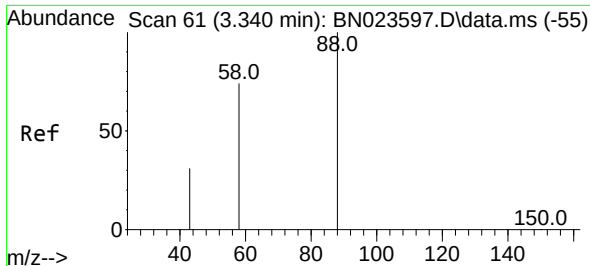
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT3-2022-06

Quant Time: Jan 10 13:41:26 2023  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SFAM-EPA-SIM-BN010323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jan 04 00:28:51 2023  
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Manual Integrations  
APPROVED

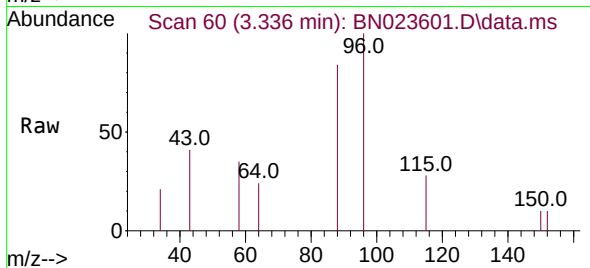
Reviewed By :Jagrut Upadhyay 01/11/2023  
Supervised By :mohammad ahmed 01/12/2023





#2  
1,4-Dioxane  
Concen: 0.068 ng/ul m  
RT: 3.336 min Scan# 60  
Delta R.T. -0.004 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

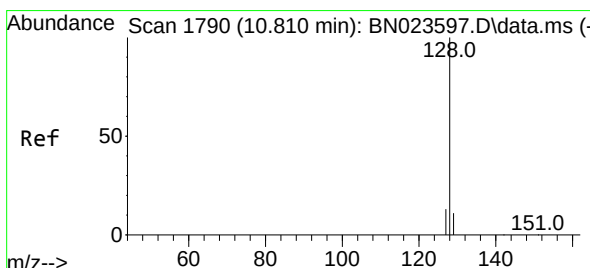
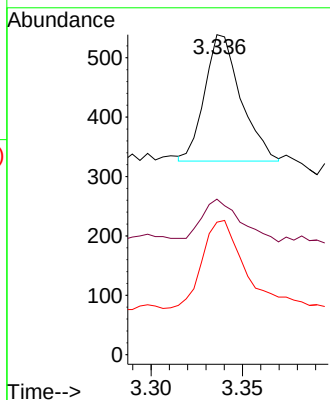
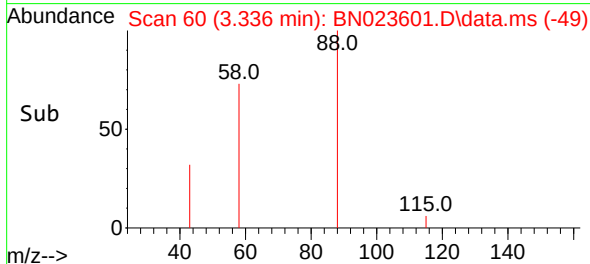
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT3-2022-06



Tgt Ion: 88 Resp: 294  
Ion Ratio Lower Upper  
88 100  
43 48.6 44.0 66.0  
58 41.4 50.5 75.7

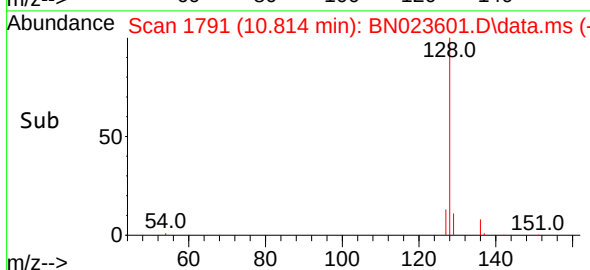
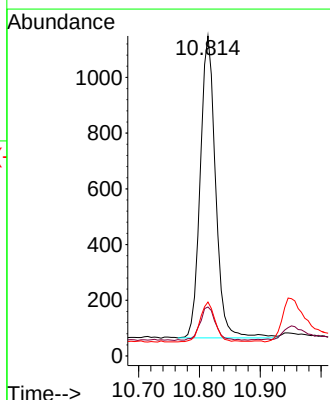
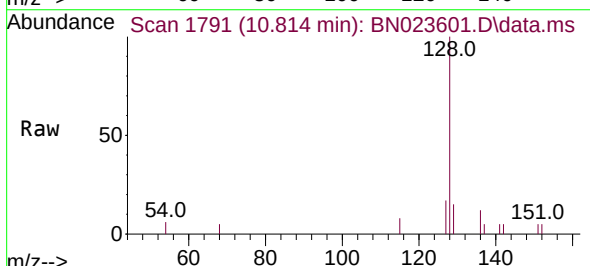
Manual Integrations  
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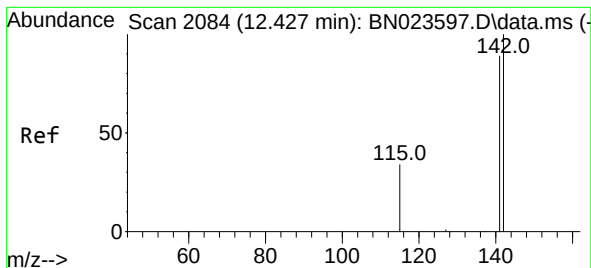
Reviewed By :Jagrut Upadhyay 01/11/2023  
Supervised By :mohammad ahmed 01/12/2023



#5  
Naphthalene  
Concen: 0.058 ng/ul  
RT: 10.814 min Scan# 1791  
Delta R.T. -0.007 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

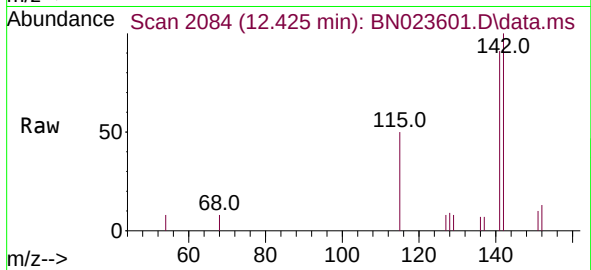
Tgt Ion:128 Resp: 1903  
Ion Ratio Lower Upper  
128 100  
129 15.3 9.3 13.9#  
127 16.9 10.9 16.3#





#7  
2-Methylnaphthalene  
Concen: 0.055 ng/ul  
RT: 12.425 min Scan# 2084  
Delta R.T. -0.007 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

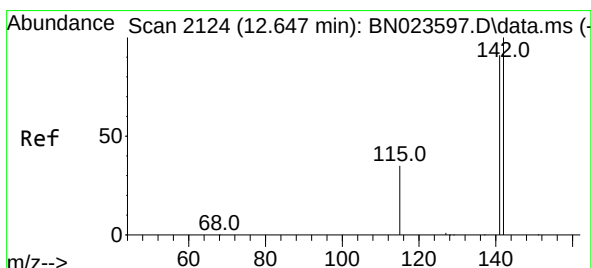
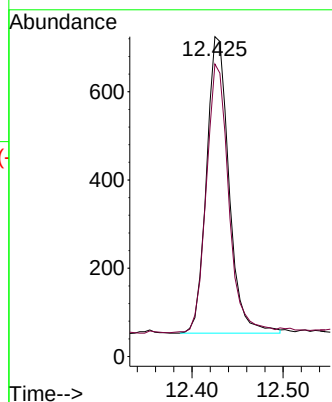
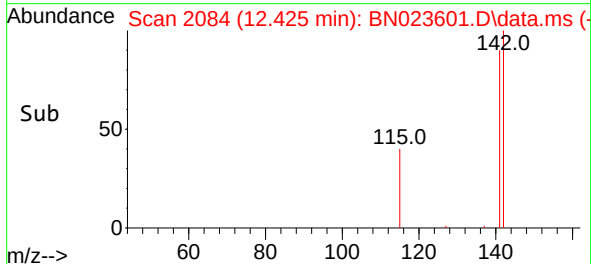
Instrument : BNA\_N  
ClientSampleId : MDL-SOIL-QT3-2022-06



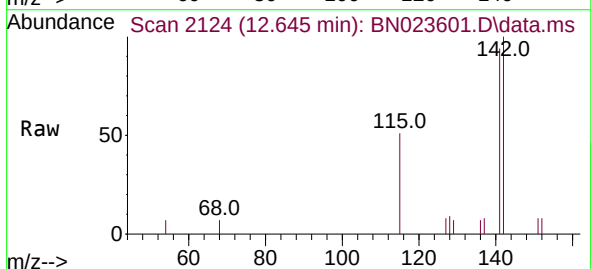
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Ion Ratio Lower Upper  
142 100  
141 91.0 71.4 107.2

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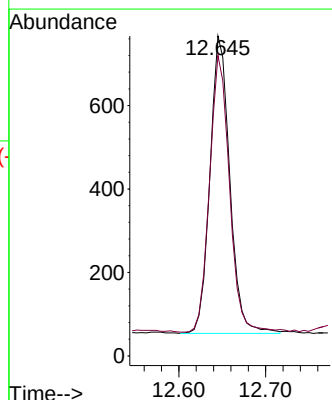
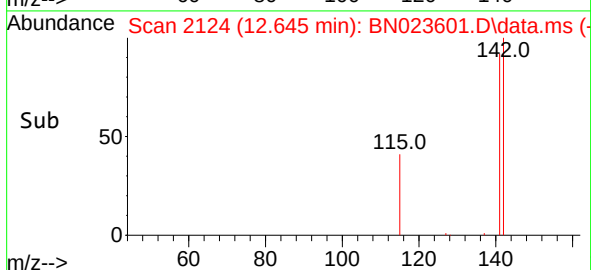
Reviewed By :Jagrut Upadhyay 01/11/2023  
Supervised By :mohammad ahmed 01/12/2023

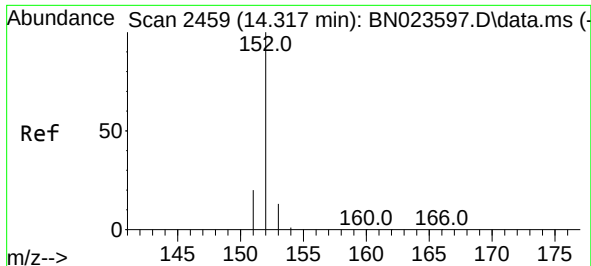


#8  
1-Methylnaphthalene  
Concen: 0.053 ng/ul  
RT: 12.645 min Scan# 2124  
Delta R.T. -0.007 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50



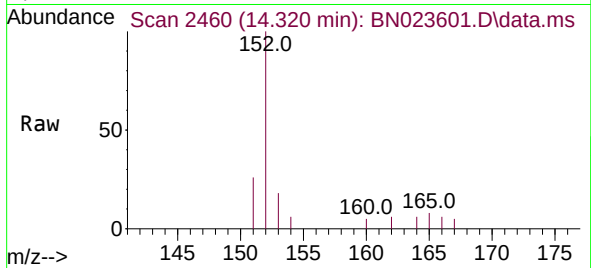
Tgt Ion:142 Resp: 1132  
Ion Ratio Lower Upper  
142 100  
141 93.5 74.1 111.1





#10  
Acenaphthylene  
Concen: 0.055 ng/ul  
RT: 14.320 min Scan# 2459  
Delta R.T. -0.006 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

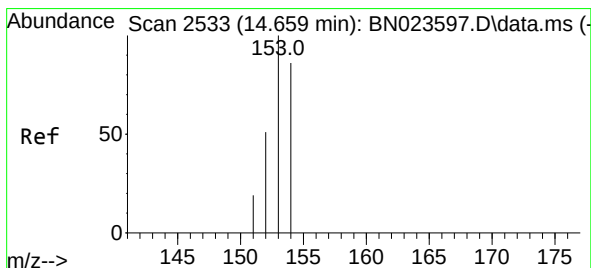
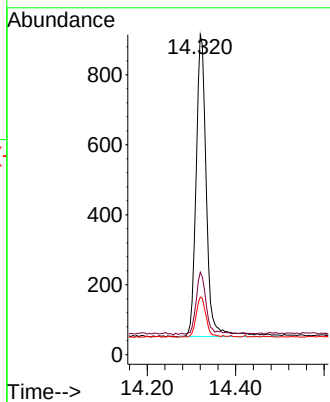
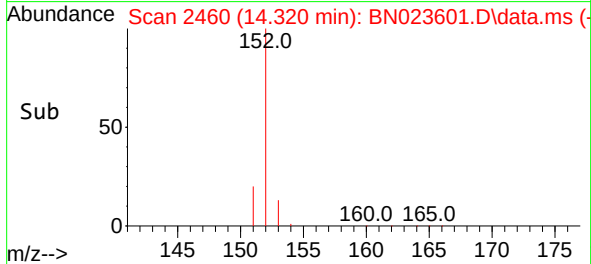
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT3-2022-06



Tgt Ion:152 Resp: 1397  
Ion Ratio Lower Upper  
152 100  
151 25.8 16.3 24.5  
153 18.0 10.7 16.1

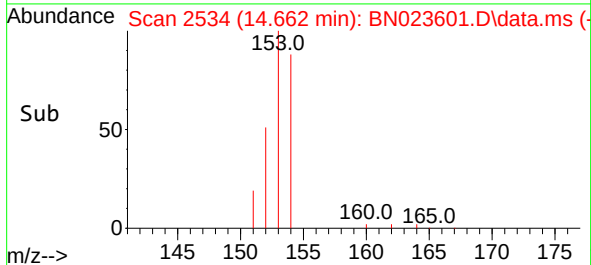
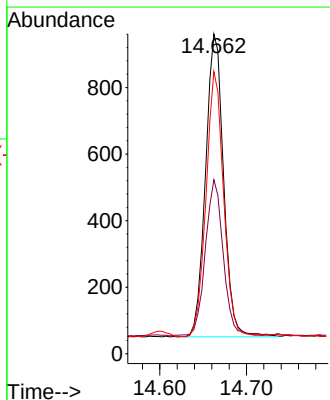
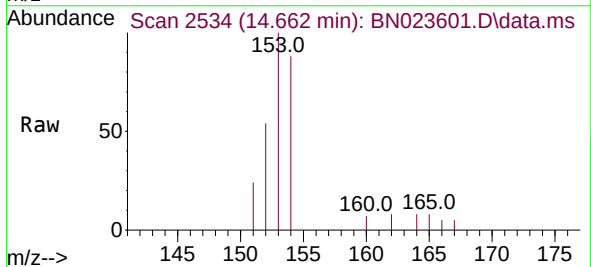
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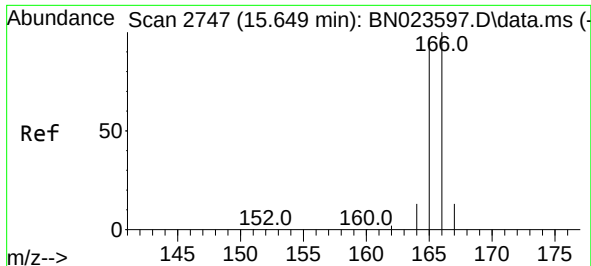
Reviewed By :Jagrut Upadhyay 01/11/2023  
Supervised By :mohammad ahmed 01/12/2023



#11  
Acenaphthene  
Concen: 0.059 ng/ul  
RT: 14.662 min Scan# 2534  
Delta R.T. -0.006 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

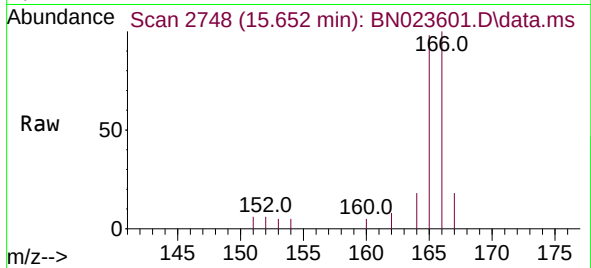
Tgt Ion:153 Resp: 1315  
Ion Ratio Lower Upper  
153 100  
152 54.4 39.8 59.8  
154 88.2 70.1 105.1





#12  
Fluorene  
Concen: 0.056 ng/ul  
RT: 15.652 min Scan# 21  
Delta R.T. -0.001 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

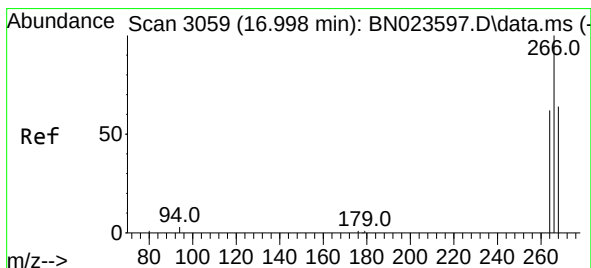
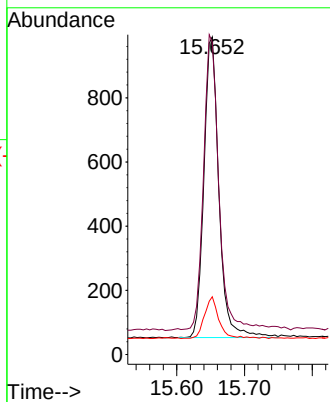
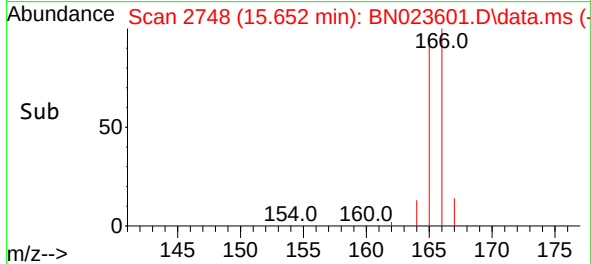
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT3-2022-06



Tgt Ion:166 Resp: 1442  
Ion Ratio Lower Upper  
166 100  
165 98.3 78.7 118.1  
167 18.2 11.0 16.6

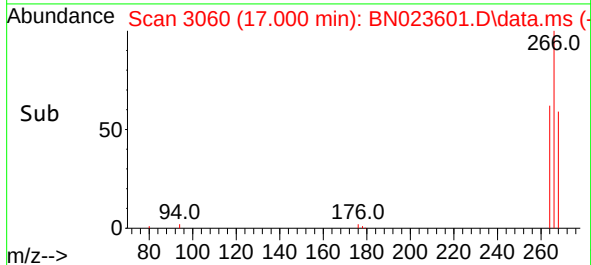
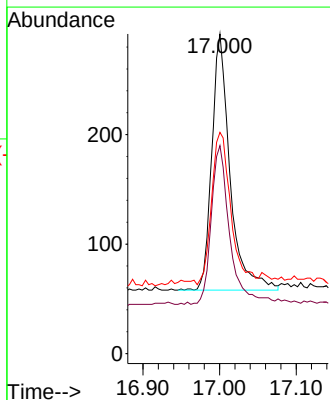
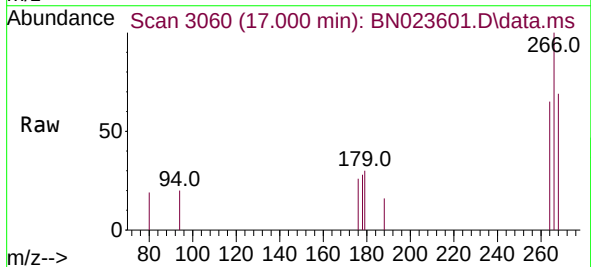
Manual Integrations  
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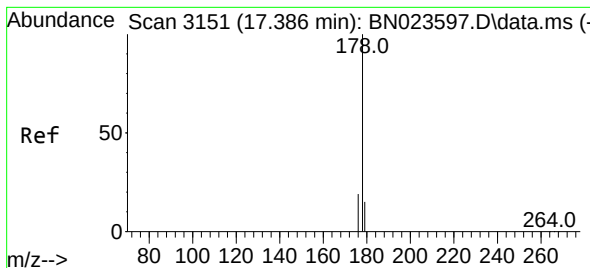
Reviewed By :Jagrut Upadhyay 01/11/2023  
Supervised By :mohammad ahmed 01/12/2023



#14  
Pentachlorophenol  
Concen: 0.088 ng/ul  
RT: 17.000 min Scan# 3060  
Delta R.T. -0.006 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

Tgt Ion:266 Resp: 386  
Ion Ratio Lower Upper  
266 100  
264 63.0 50.0 75.0  
268 63.0 51.4 77.0





#15

Phenanthrene

Concen: 0.058 ng/ul

RT: 17.389 min Scan# 3151

Delta R.T. -0.006 min

Lab File: BN023601.D

Acq: 10 Jan 2023 12:50

Instrument :

BNA\_N

ClientSampleId :

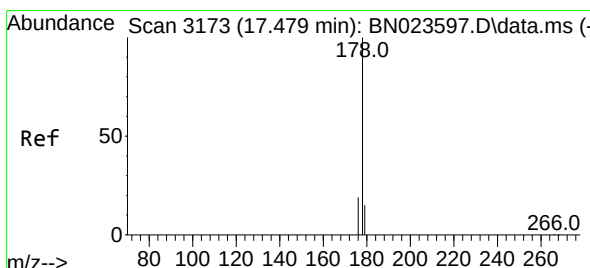
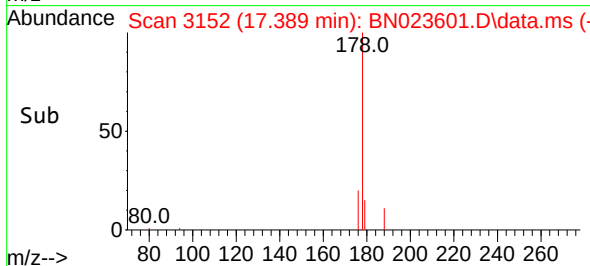
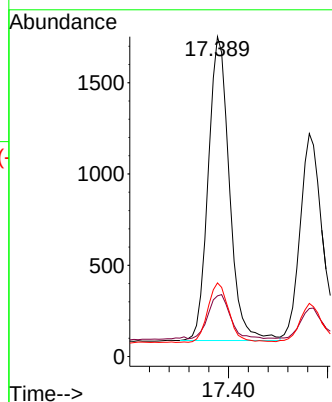
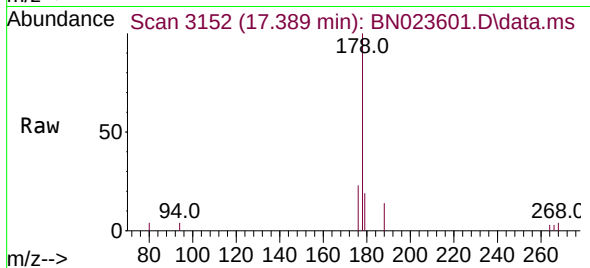
MDL-SOIL-QT3-2022-06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 2466  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 18.9  | 12.6  | 18.8# |
| 176       | 23.0  | 15.8  | 23.8# |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 01/11/2023  
Supervised By :mohammad ahmed 01/12/2023



#16

Anthracene

Concen: 0.052 ng/ul

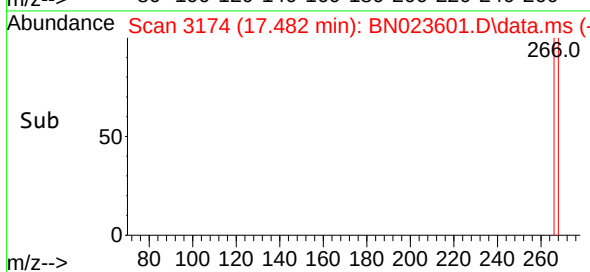
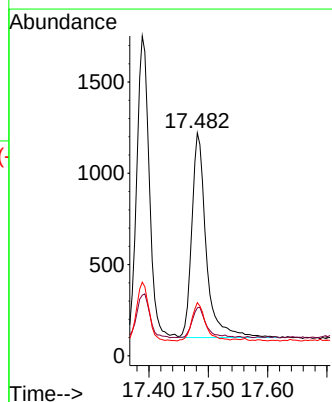
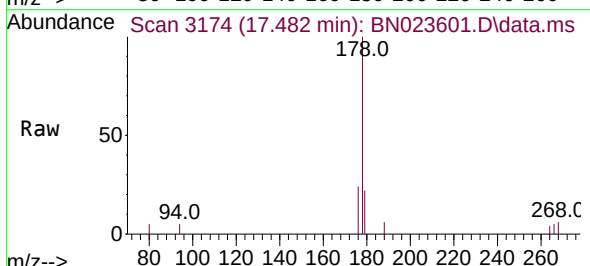
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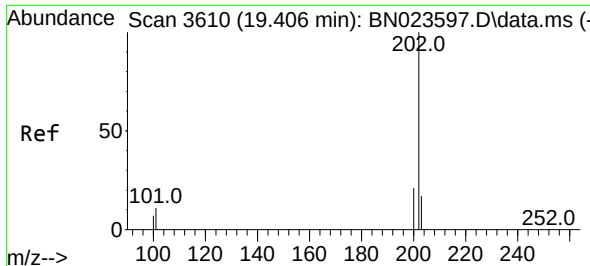
Delta R.T. -0.006 min

Lab File: BN023601.D

Acq: 10 Jan 2023 12:50

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 1886  |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 21.5  | 12.7  | 19.1# |
| 176       | 23.8  | 15.4  | 23.2# |





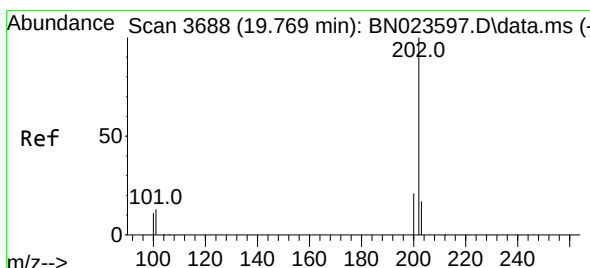
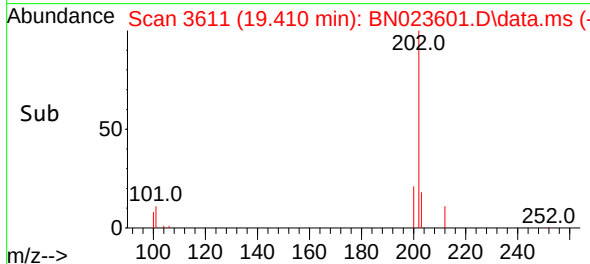
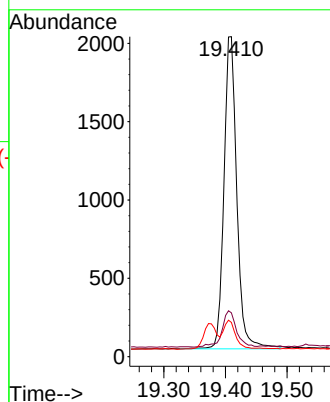
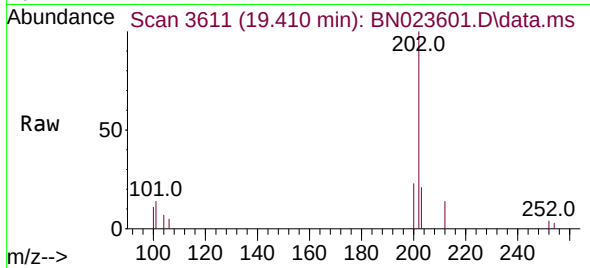
#19  
Fluoranthene  
Concen: 0.070 ng/ul  
RT: 19.410 min Scan# 3611  
Delta R.T. -0.001 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT3-2022-06

Tgt Ion:202 Resp: 2871  
Ion Ratio Lower Upper  
202 100  
101 13.7 9.8 14.6  
100 10.7 7.4 11.2

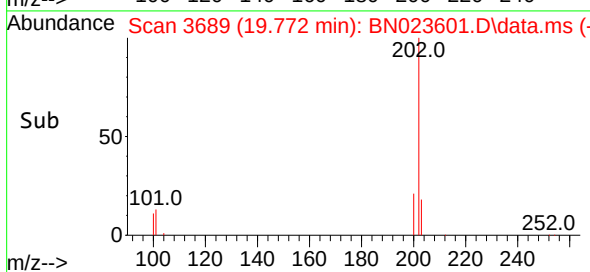
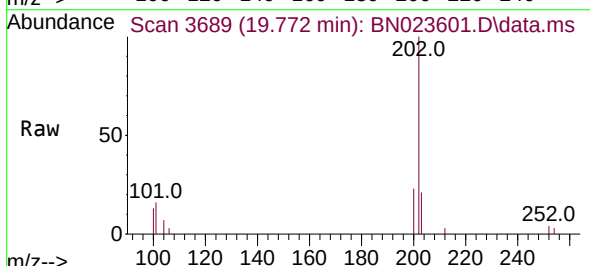
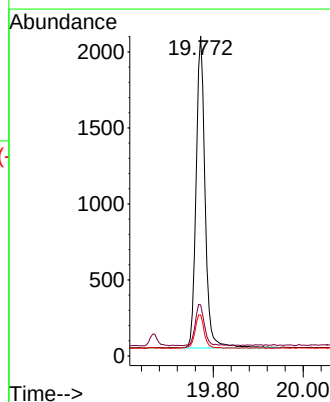
Manual Integrations  
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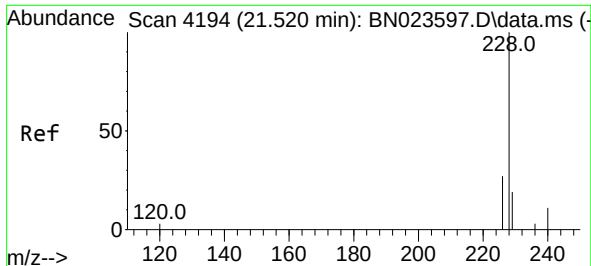


#20  
Pyrene  
Concen: 0.066 ng/ul  
RT: 19.772 min Scan# 3689  
Delta R.T. -0.006 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

Tgt Ion:202 Resp: 2861  
Ion Ratio Lower Upper  
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101 16.0 10.3 15.5#  
100 12.8 8.0 12.0#

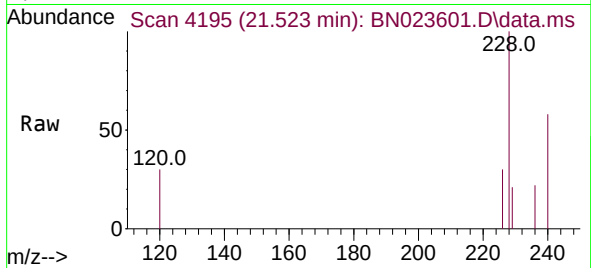






#21  
Benzo(a)anthracene  
Concen: 0.056 ng/u1  
RT: 21.523 min Scan# 4194  
Delta R.T. -0.003 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

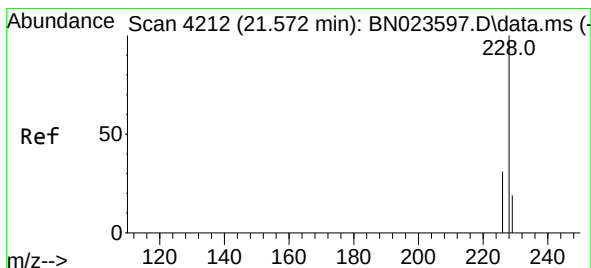
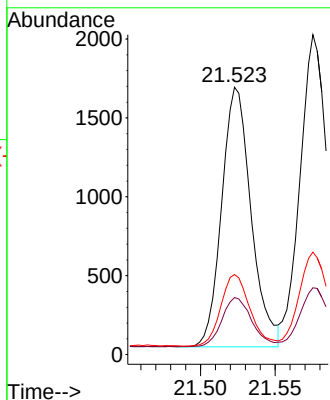
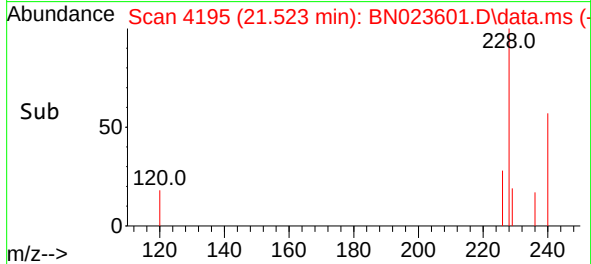
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT3-2022-06



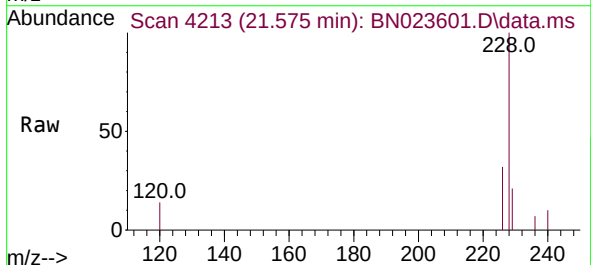
Tgt Ion:228 Resp: 2258  
Ion Ratio Lower Upper  
228 100  
229 21.3 15.5 23.3  
226 29.9 22.4 33.6

Manual Integrations  
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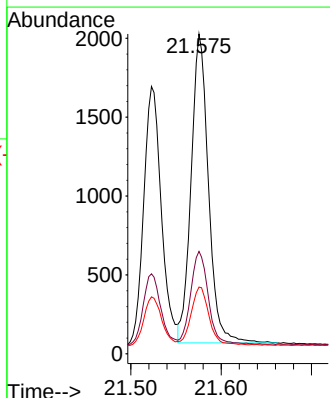
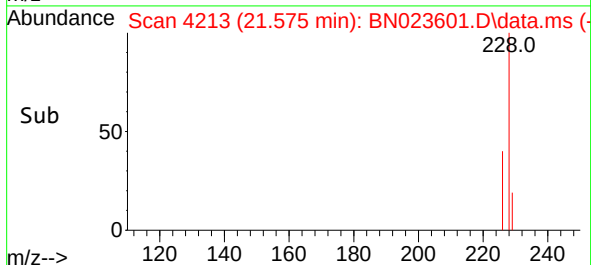
Reviewed By :Jagrut Upadhyay 01/11/2023  
Supervised By :mohammad ahmed 01/12/2023

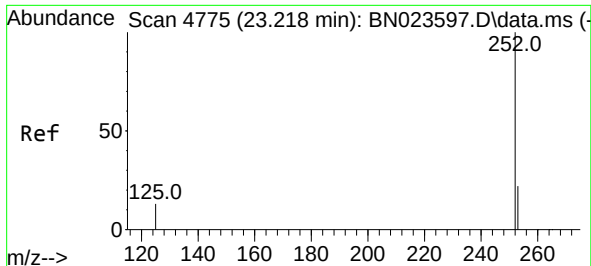


#22  
Chrysene  
Concen: 0.065 ng/u1  
RT: 21.575 min Scan# 4213  
Delta R.T. -0.003 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50



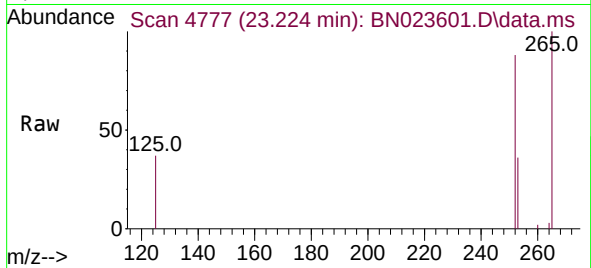
Tgt Ion:228 Resp: 2608  
Ion Ratio Lower Upper  
228 100  
226 32.0 24.9 37.3  
229 20.9 15.8 23.6





#24  
Benzo(b)fluoranthene  
Concen: 0.064 ng/ul  
RT: 23.224 min Scan# 4777  
Delta R.T. 0.000 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

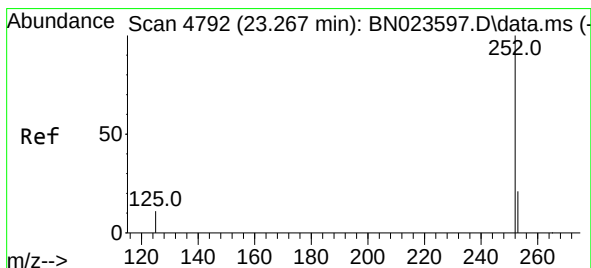
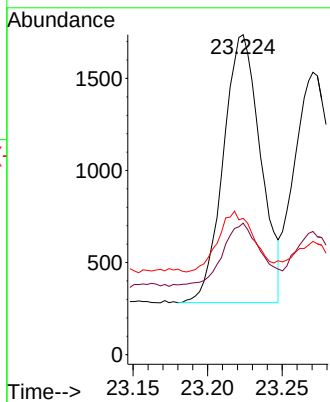
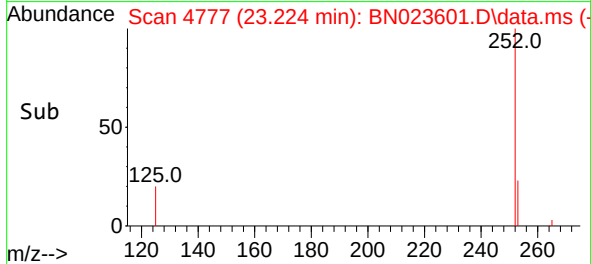
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT3-2022-06



Tgt Ion:252 Resp: 2533  
Ion Ratio Lower Upper  
252 100  
253 41.1 0.0 49.2  
125 42.6 0.0 34.2

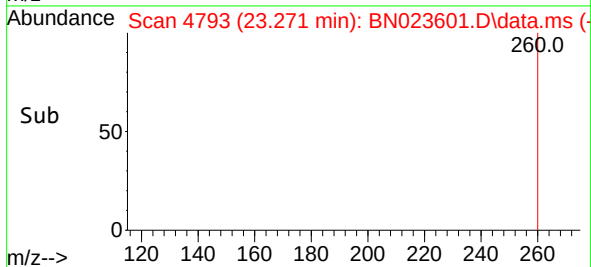
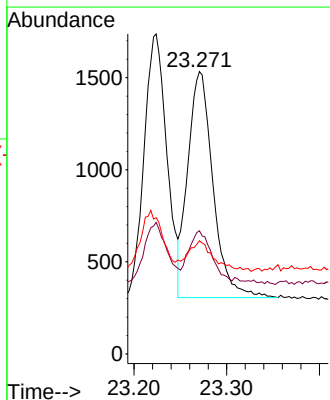
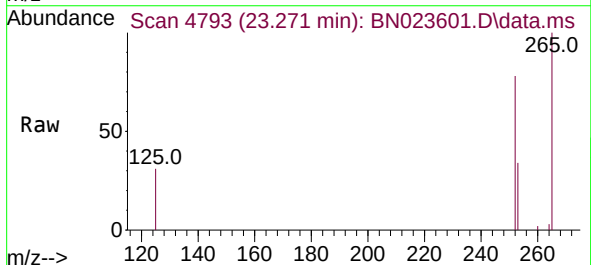
Manual Integrations  
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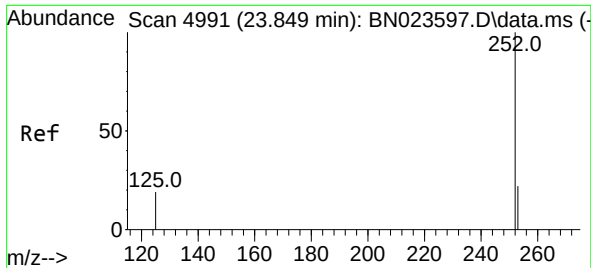
Reviewed By :Jagrut Upadhyay 01/11/2023  
Supervised By :mohammad ahmed 01/12/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.063 ng/ul  
RT: 23.271 min Scan# 4793  
Delta R.T. -0.003 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

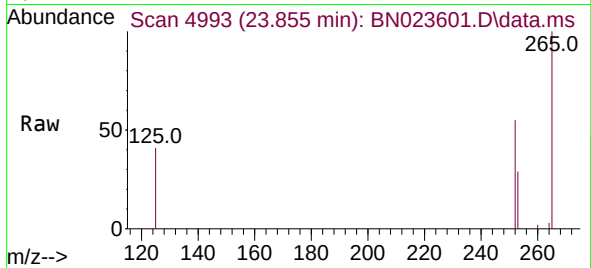
Tgt Ion:252 Resp: 2323  
Ion Ratio Lower Upper  
252 100  
253 43.6 20.2 30.2#  
125 40.1 12.1 18.1#





#26  
Benzo(a)pyrene  
Concen: 0.060 ng/ul  
RT: 23.855 min Scan# 4991  
Delta R.T. -0.003 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

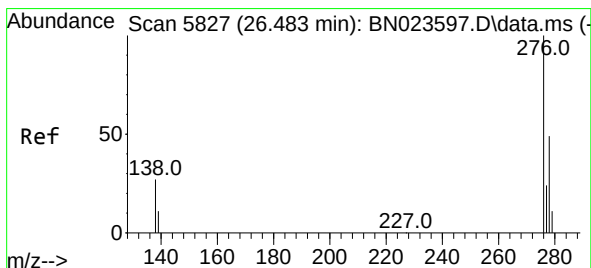
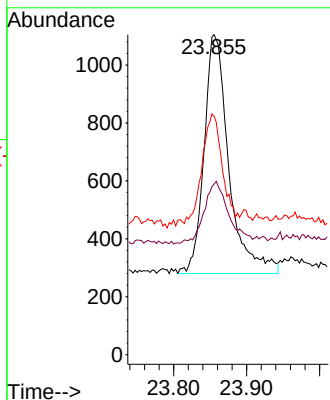
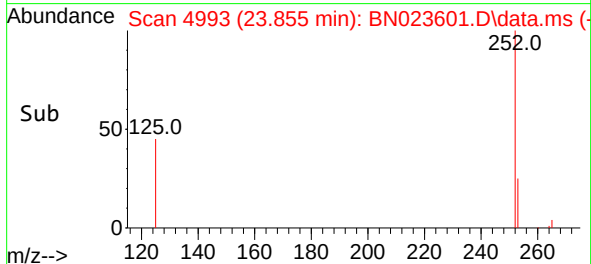
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT3-2022-06



Tgt Ion:252 Resp: 1949  
Ion Ratio Lower Upper  
252 100  
253 53.3 21.4 32.0  
125 74.5 18.4 27.6

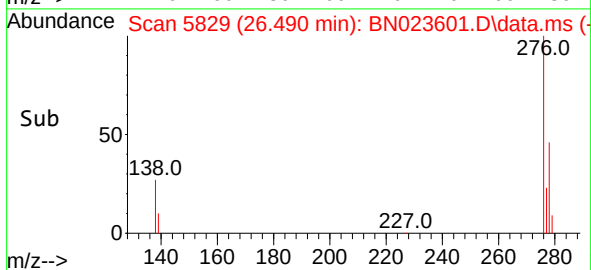
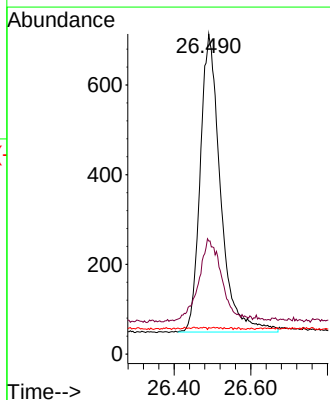
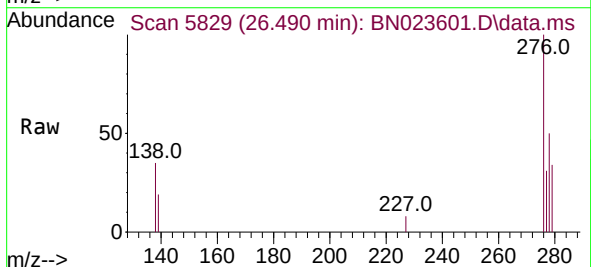
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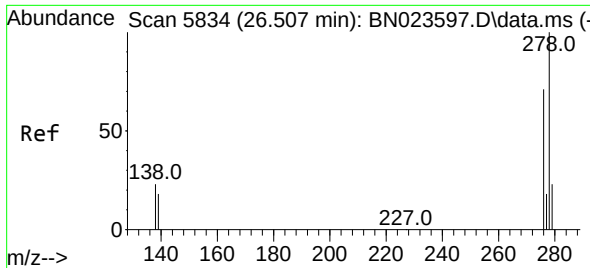
Reviewed By :Jagrut Upadhyay 01/11/2023  
Supervised By :mohammad ahmed 01/12/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.060 ng/ul  
RT: 26.490 min Scan# 5829  
Delta R.T. -0.003 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

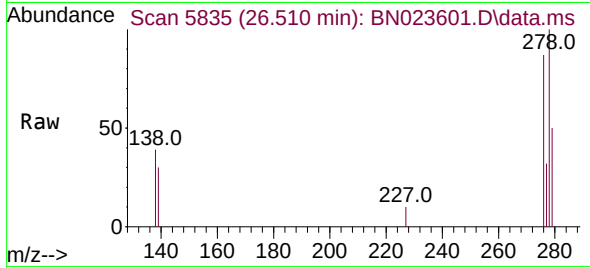
Tgt Ion:276 Resp: 2435  
Ion Ratio Lower Upper  
276 100  
138 31.0 23.2 34.8  
227 0.2 0.1 0.1





#28  
Dibenzo(a,h)anthracene  
Concen: 0.059 ng/ul  
RT: 26.510 min Scan# 5835  
Delta R.T. -0.003 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

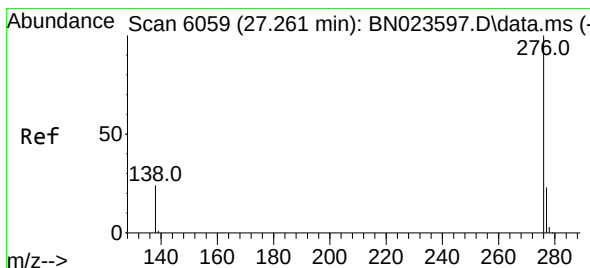
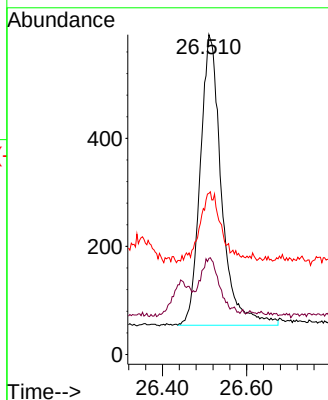
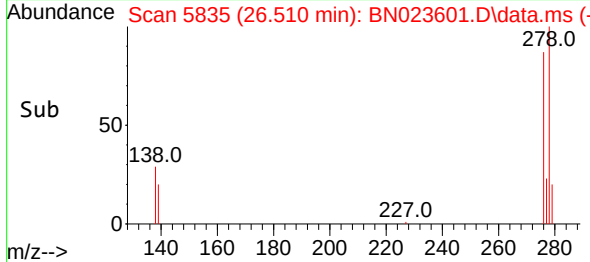
Instrument :  
BNA\_N  
ClientSampleId :  
MDL-SOIL-QT3-2022-06



Tgt Ion:278 Resp: 1885  
Ion Ratio Lower Upper  
278 100  
139 30.1 16.5 24.7  
279 50.3 21.0 31.4

Manual Integrations  
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Reviewed By :Jagrut Upadhyay 01/11/2023  
Supervised By :mohammad ahmed 01/12/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.065 ng/ul  
RT: 27.268 min Scan# 6061  
Delta R.T. 0.000 min  
Lab File: BN023601.D  
Acq: 10 Jan 2023 12:50

Tgt Ion:276 Resp: 2122  
Ion Ratio Lower Upper  
276 100  
138 34.7 20.7 31.1#  
277 33.6 19.6 29.4#

