

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM121324\  
 Data File : BM048977.D  
 Acq On : 13 Dec 2024 11:51  
 Operator : RC/JU  
 Sample : P4776-04  
 Misc : MDL-SOIL-QT4-2024  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-QT4-2024-08

Quant Time: Dec 14 00:26:41 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM121124.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 12 00:53:37 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/14/2024  
 Supervised By :mohammad ahmed 12/14/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.569  | 152  | 204403   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.333 | 136  | 805389   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.210 | 164  | 438589   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 16.951 | 188  | 843616   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.174 | 240  | 713740   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.985 | 264  | 738713   | 20.000 | ng/u1  | -0.01    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.151  | 96   | 18380    | 3.165  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.546  | 84   | 199535   | 11.552 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.757  | 99   | 211078   | 11.846 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.916  | 67   | 153752   | 12.706 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.110  | 132  | 160485   | 12.413 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.275  | 113  | 145320   | 10.926 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.716  | 128  | 69889    | 12.100 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.428  | 143  | 58496    | 10.955 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 9.963  | 165  | 129883   | 11.429 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.475 | 131  | 189867   | 10.716 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.627 | 166  | 357012   | 11.822 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 13.898 | 160  | 446362   | 12.109 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.415 | 143  | 51185    | 8.846  | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.204 | 176  | 318329   | 12.163 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.321 | 200  | 29006    | 6.591  | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.051 | 188  | 439977   | 10.641 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.350 | 212  | 512473   | 12.789 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.791 | 264  | 445739   | 11.776 | ng/u1  | -0.01    |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.187  | 88   | 6576m    | 1.063  | ng/uL  |          |
| 5) Pyridine                   | 3.563  | 79   | 67970    | 3.766  | ng/u1# | 87       |
| 6) Benzaldehyde               | 6.728  | 77   | 44890    | 4.725  | ng/u1  | 97       |
| 8) Phenol                     | 6.781  | 94   | 76282    | 3.972  | ng/u1  | 96       |
| 10) Bis(2-Chloroethyl)ether   | 7.010  | 93   | 62945    | 4.144  | ng/u1  | 97       |
| 12) 2-Chlorophenol            | 7.139  | 128  | 55655    | 4.077  | ng/u1  | 97       |
| 13) 2-Methylphenol            | 8.016  | 108  | 46230    | 3.507  | ng/u1  | 95       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.092  | 45   | 93182    | 4.145  | ng/u1  | 99       |
| 16) Acetophenone              | 8.386  | 105  | 85858    | 3.837  | ng/u1  | 97       |
| 17) N-Nitroso-di-n-propyla... | 8.375  | 70   | 39702    | 3.641  | ng/u1  | 97       |
| 18) 4-Methylphenol            | 8.339  | 108  | 51528    | 3.557  | ng/u1  | 99       |
| 19) Hexachloroethane          | 8.633  | 117  | 24839    | 4.210  | ng/u1  | 98       |
| 22) Nitrobenzene              | 8.757  | 77   | 64228    | 4.056  | ng/u1  | 97       |
| 23) Isophorone                | 9.281  | 82   | 101871   | 3.639  | ng/u1  | 99       |
| 25) 2-Nitrophenol             | 9.457  | 139  | 23070    | 3.663  | ng/u1  | 99       |
| 26) 2,4-Dimethylphenol        | 9.533  | 107  | 28949    | 2.214  | ng/u1  | 94       |
| 27) Bis(2-Chloroethoxy)met... | 9.769  | 93   | 69784    | 3.900  | ng/u1  | 95       |
| 29) 2,4-Dichlorophenol        | 9.986  | 162  | 46234    | 3.936  | ng/u1  | 96       |
| 30) Naphthalene               | 10.386 | 128  | 174792   | 4.085  | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.498 | 127  | 61708    | 3.618  | ng/u1  | 100      |
| 33) Hexachlorobutadiene       | 10.680 | 225  | 30102    | 3.971  | ng/u1  | 94       |
| 34) Caprolactam               | 11.286 | 113  | 11150m   | 3.013  | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 11.633 | 107  | 35567    | 3.166  | ng/u1  | 98       |
| 36) 2-Methylnaphthalene       | 12.004 | 142  | 102916   | 3.797  | ng/u1  | 100      |

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Quant Time: Dec 14 00:26:41 2024  
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 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 12 00:53:37 2024  
 Response via : Initial Calibration

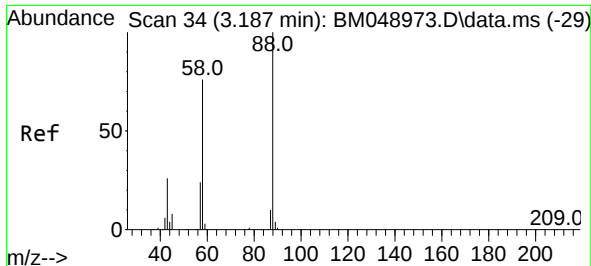
### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/14/2024  
 Supervised By :mohammad ahmed 12/14/2024

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |                               |
|-------------------------------|--------|------|----------|-------|--------|----------|-------------------------------|
| 37) 1-Methylnaphthalene       | 12.227 | 142  | 95111    | 3.512 | ng/ul# | 98       | 12/14/2024                    |
| 39) 1,2,4,5-Tetrachloroben... | 12.380 | 216  | 53877    | 4.013 | ng/ul  | 96       | Supervised By :mohammad ahmed |
| 40) Hexachlorocyclopentadiene | 12.369 | 237  | 22196    | 2.662 | ng/ul  | 98       |                               |
| 41) 2,4,6-Trichlorophenol     | 12.627 | 196  | 25284    | 3.357 | ng/ul  | 98       |                               |
| 42) 2,4,5-Trichlorophenol     | 12.692 | 196  | 26946    | 3.250 | ng/ul  | 94       |                               |
| 43) 1,1'-Biphenyl             | 13.039 | 154  | 134214   | 4.043 | ng/ul  | 99       |                               |
| 44) 2-Chloronaphthalene       | 13.068 | 162  | 107509   | 4.076 | ng/ul  | 98       | 12/14/2024                    |
| 45) 2-Nitroaniline            | 13.280 | 65   | 19770    | 2.922 | ng/ul  | 98       |                               |
| 47) Dimethylphthalate         | 13.674 | 163  | 116145   | 3.844 | ng/ul  | 100      |                               |
| 48) 2,6-Dinitrotoluene        | 13.786 | 165  | 14207    | 2.789 | ng/ul# | 94       |                               |
| 50) Acenaphthylene            | 13.921 | 152  | 166373   | 4.147 | ng/ul  | 98       |                               |
| 51) 3-Nitroaniline            | 14.115 | 138  | 15813m   | 2.665 | ng/ul  |          |                               |
| 52) Acenaphthene              | 14.268 | 153  | 111321   | 3.911 | ng/ul  | 99       |                               |
| 53) 2,4-Dinitrophenol         | 14.321 | 184  | 8402     | 3.157 | ng/ul  | 91       |                               |
| 55) 4-Nitrophenol             | 14.427 | 109  | 11997    | 2.829 | ng/ul  | 89       |                               |
| 56) Dibenzofuran              | 14.610 | 168  | 154195   | 4.025 | ng/ul  | 99       |                               |
| 57) 2,4-Dinitrotoluene        | 14.574 | 165  | 23524    | 3.123 | ng/ul  | 96       |                               |
| 58) 2,3,4,6-Tetrachlorophenol | 14.839 | 232  | 19920    | 3.282 | ng/ul# | 99       |                               |
| 59) Diethylphthalate          | 15.051 | 149  | 107795   | 3.704 | ng/ul  | 98       |                               |
| 61) Fluorene                  | 15.257 | 166  | 120964   | 3.819 | ng/ul  | 98       |                               |
| 62) 4-Chlorophenyl-phenyle... | 15.262 | 204  | 55754    | 3.633 | ng/ul  | 96       |                               |
| 63) 4-Nitroaniline            | 15.280 | 138  | 15897m   | 2.812 | ng/ul  |          |                               |
| 66) 4,6-Dinitro-2-methylph... | 15.339 | 198  | 13471    | 2.749 | ng/ul  | 94       |                               |
| 67) N-Nitrosodiphenylamine    | 15.474 | 169  | 90237    | 3.511 | ng/ul  | 97       |                               |
| 68) 4-Bromophenyl-phenylether | 16.157 | 248  | 29138    | 3.506 | ng/ul  | 89       |                               |
| 69) Hexachlorobenzene         | 16.262 | 284  | 35083    | 3.511 | ng/ul  | 97       |                               |
| 70) Atrazine                  | 16.439 | 200  | 27354    | 2.903 | ng/ul  | 96       |                               |
| 71) Pentachlorophenol         | 16.609 | 266  | 22335    | 3.611 | ng/ul  | 95       |                               |
| 72) Phenanthrene              | 16.992 | 178  | 179586   | 3.680 | ng/ul  | 100      |                               |
| 74) Anthracene                | 17.086 | 178  | 172221   | 3.505 | ng/ul  | 100      |                               |
| 75) 1,2,3,4-Tetrachloroben... | 12.992 | 216  | 48100    | 3.516 | ng/uL  | 97       |                               |
| 76) Pentachlorobenzene        | 14.527 | 250  | 43348    | 3.267 | ng/uL  | 96       |                               |
| 77) Carbazole                 | 17.356 | 167  | 153533   | 3.313 | ng/ul  | 100      |                               |
| 78) Di-n-butylphthalate       | 17.945 | 149  | 154356   | 3.316 | ng/ul  | 100      |                               |
| 80) Fluoranthene              | 19.015 | 202  | 183868   | 3.902 | ng/ul  | 97       |                               |
| 82) Pyrene                    | 19.380 | 202  | 208363   | 4.009 | ng/ul# | 95       |                               |
| 83) Butylbenzylphthalate      | 20.309 | 149  | 54181    | 3.416 | ng/ul  | 96       |                               |
| 84) 3,3'-Dichlorobenzidine    | 21.097 | 252  | 20378m   | 1.645 | ng/ul  |          |                               |
| 85) Benzo(a)anthracene        | 21.162 | 228  | 189029   | 3.949 | ng/ul  | 99       |                               |
| 86) Bis(2-ethylhexyl)phtha... | 21.121 | 149  | 74117    | 3.234 | ng/ul  | 100      |                               |
| 87) Chrysene                  | 21.215 | 228  | 177661   | 3.943 | ng/ul  | 99       |                               |
| 89) Di-n-octyl phthalate      | 22.191 | 149  | 100966   | 2.272 | ng/ul  | 100      |                               |
| 90) Benzo(b)fluoranthene      | 23.103 | 252  | 166095   | 3.555 | ng/ul  | 97       |                               |
| 91) Benzo(k)fluoranthene      | 23.162 | 252  | 166303   | 3.563 | ng/ul  | 98       |                               |
| 93) Benzo(a)pyrene            | 23.850 | 252  | 157490   | 3.626 | ng/ul  | 98       |                               |
| 94) Indeno(1,2,3-cd)pyrene    | 27.091 | 276  | 204534   | 3.811 | ng/ul  | 98       |                               |
| 95) Dibenzo(a,h)anthracene    | 27.150 | 278  | 168563m  | 3.844 | ng/ul  |          |                               |
| 96) Benzo(g,h,i)perylene      | 28.068 | 276  | 167880m  | 4.075 | ng/ul  |          |                               |

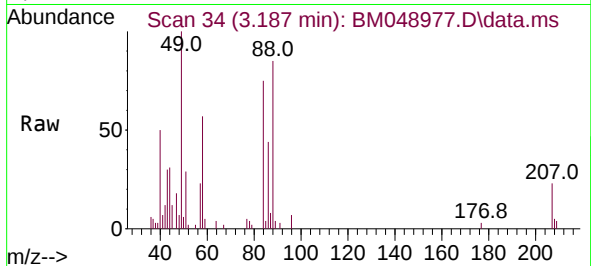
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#2  
1,4-Dioxane  
Concen: 1.063 ng/uL m  
RT: 3.187 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

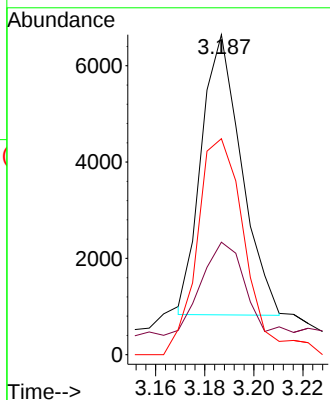
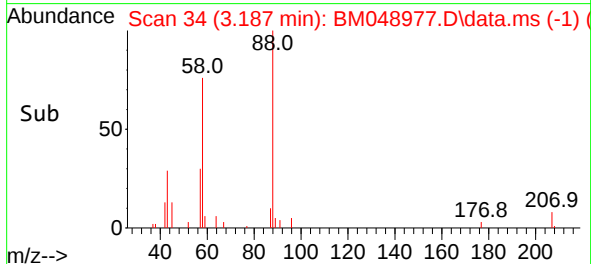
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion: 88 Resp: 6570  
Ion Ratio Lower Upper  
88 100  
43 35.2 24.7 37.1  
58 67.5 60.0 90.0

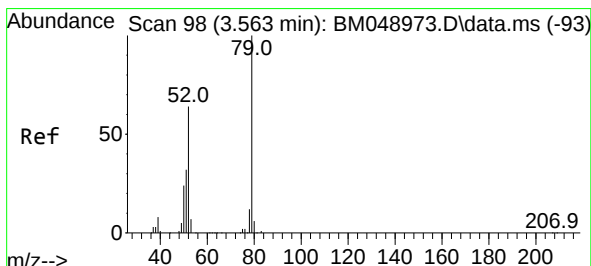
Manual Integrations  
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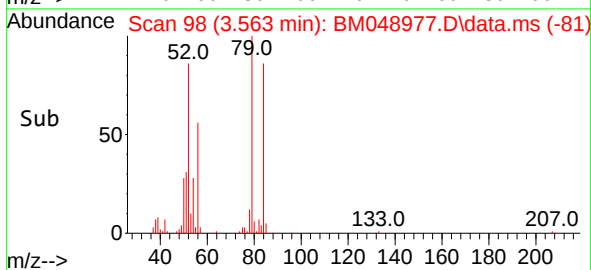
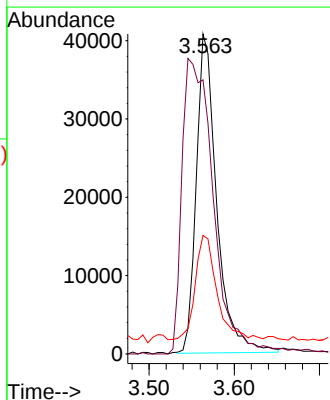
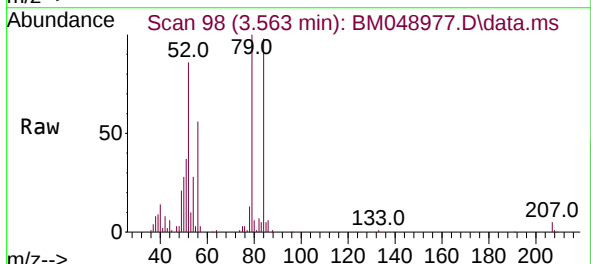
12/14/2024  
Supervised By :mohammad  
ahmed

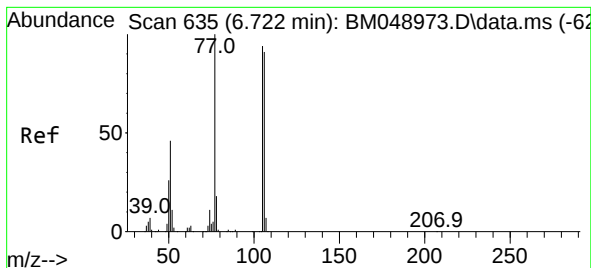
12/14/2024



#5  
Pyridine  
Concen: 3.766 ng/uL  
RT: 3.563 min Scan# 98  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Tgt Ion: 79 Resp: 67970  
Ion Ratio Lower Upper  
79 100  
52 85.6 56.2 84.4#  
51 37.1 28.6 42.8





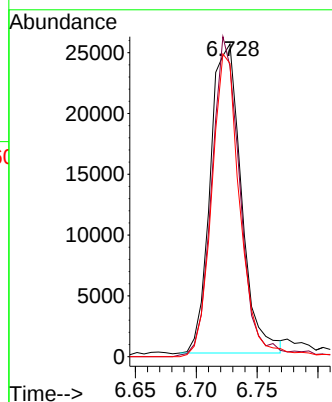
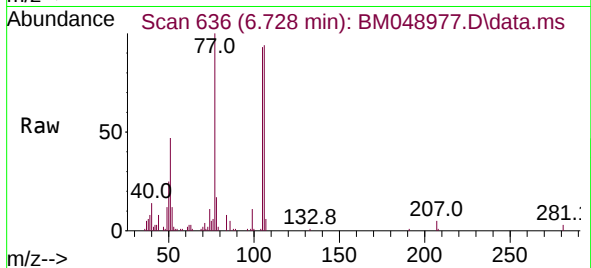
#6  
Benzaldehyde  
Concen: 4.725 ng/ul  
RT: 6.728 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08

Tgt Ion: 77 Resp: 44890  
Ion Ratio Lower Upper  
77 100  
105 92.8 73.3 109.9  
106 93.8 71.9 107.9

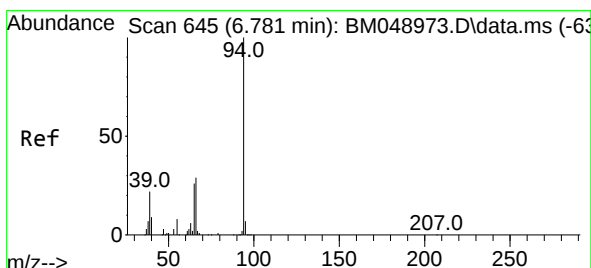
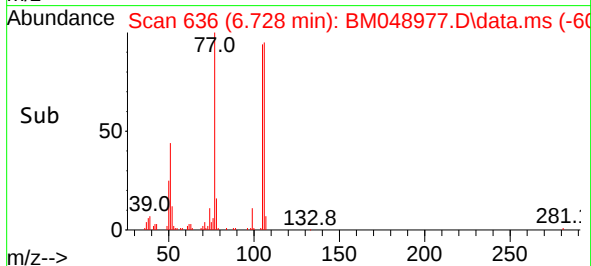
Manual Integrations  
APPROVED

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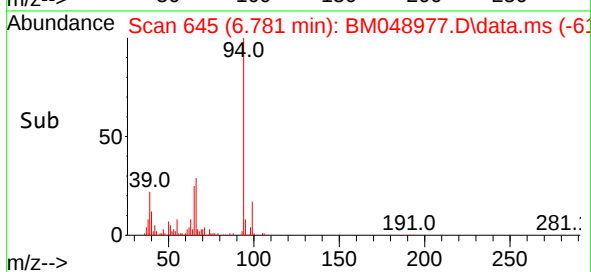
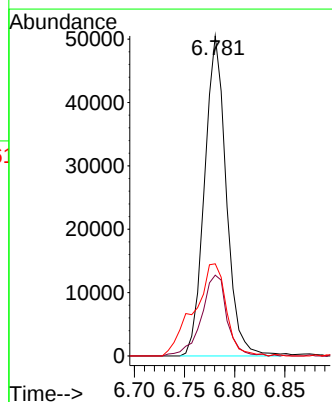
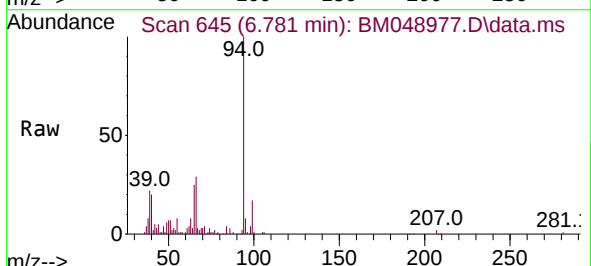
12/14/2024  
Supervised By :mohammad  
ahmed

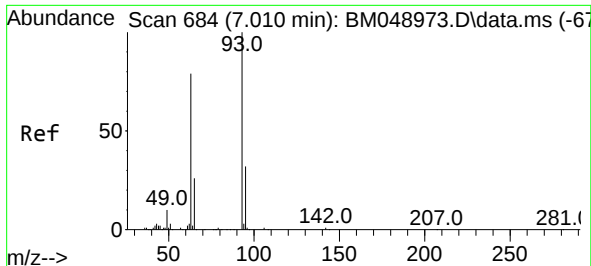
12/14/2024



#8  
Phenol  
Concen: 3.972 ng/ul  
RT: 6.781 min Scan# 645  
Delta R.T. 0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

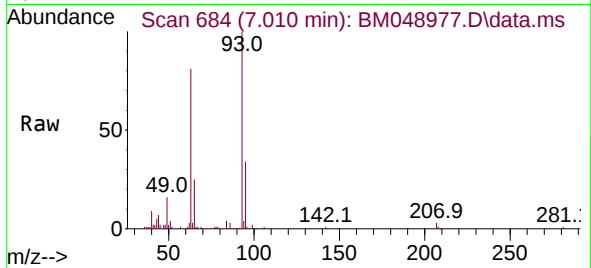
Tgt Ion: 94 Resp: 76282  
Ion Ratio Lower Upper  
94 100  
65 25.2 22.1 33.1  
66 28.8 24.9 37.3





#10  
Bis(2-Chloroethyl)ether  
Concen: 4.144 ng/ul  
RT: 7.010 min Scan# 684  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

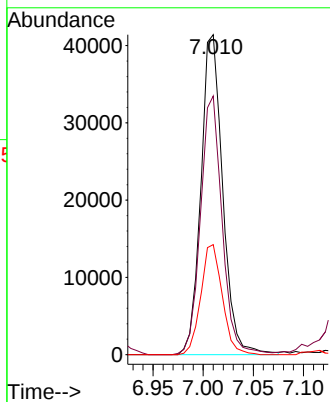
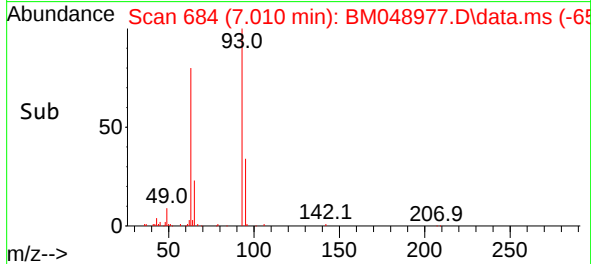
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion: 93 Resp: 62945  
Ion Ratio Lower Upper  
93 100  
63 80.9 62.9 94.3  
95 34.4 26.2 39.2

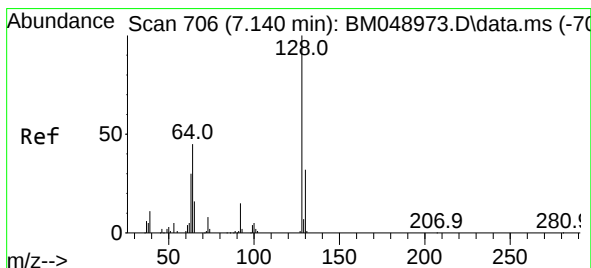
Manual Integrations  
APPROVED

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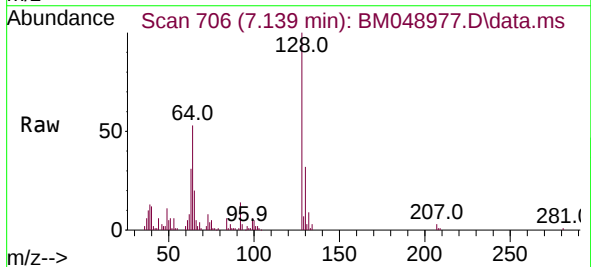


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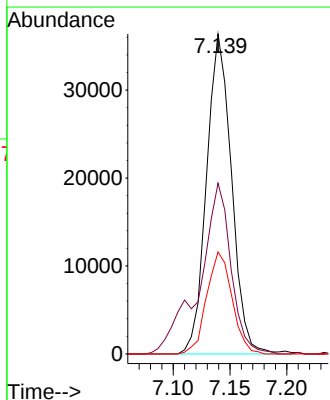
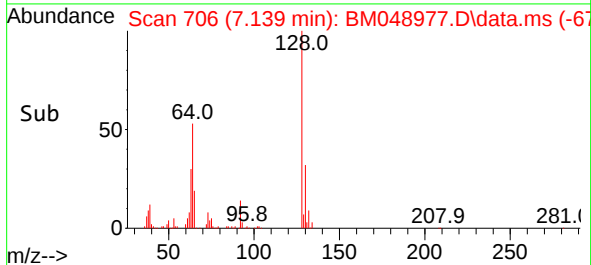
12/14/2024

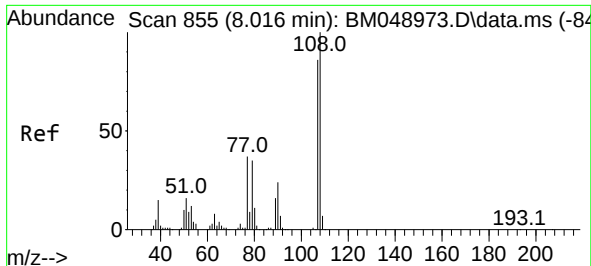


#12  
2-Chlorophenol  
Concen: 4.077 ng/ul  
RT: 7.139 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51



Tgt Ion:128 Resp: 55655  
Ion Ratio Lower Upper  
128 100  
64 53.3 40.8 61.2  
130 31.9 26.1 39.1





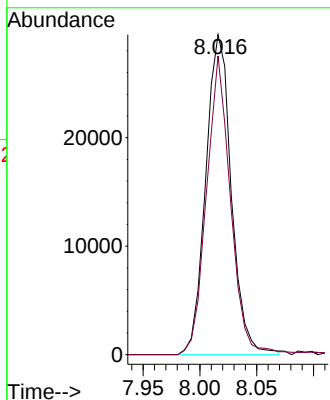
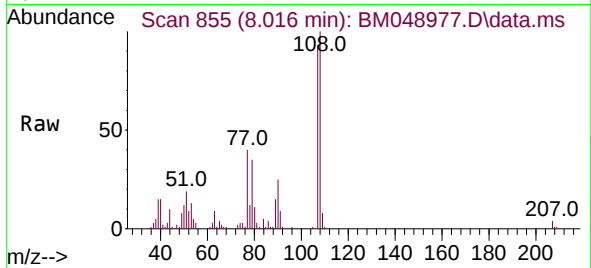
#13  
2-Methylphenol  
Concen: 3.507 ng/ul  
RT: 8.016 min Scan# 855  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08

Tgt Ion:108 Resp: 46230  
Ion Ratio Lower Upper  
108 100  
107 93.4 70.7 106.1

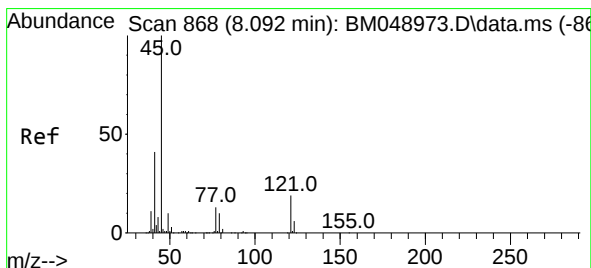
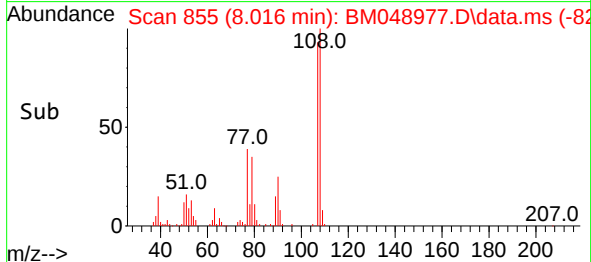
Manual Integrations  
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Supervised By :mohammad ahmed 12/14/2024



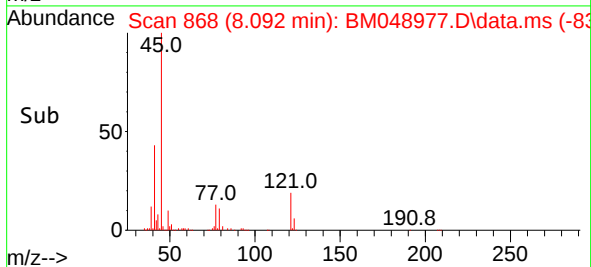
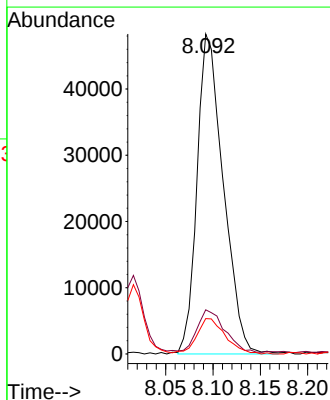
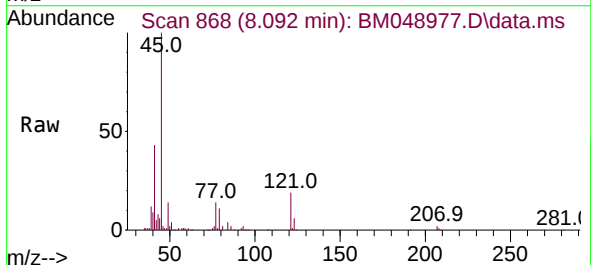
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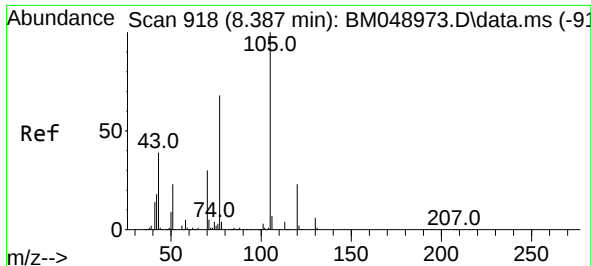
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#14  
2,2'-oxybis(1-Chloropropane)  
Concen: 4.145 ng/ul  
RT: 8.092 min Scan# 868  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Tgt Ion: 45 Resp: 93182  
Ion Ratio Lower Upper  
45 100  
77 13.8 10.6 16.0  
79 11.0 8.5 12.7





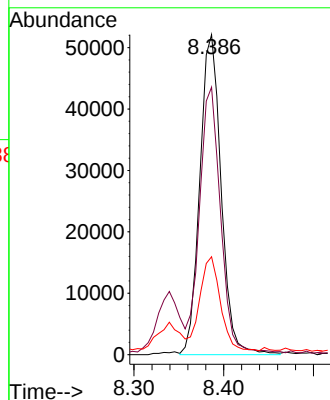
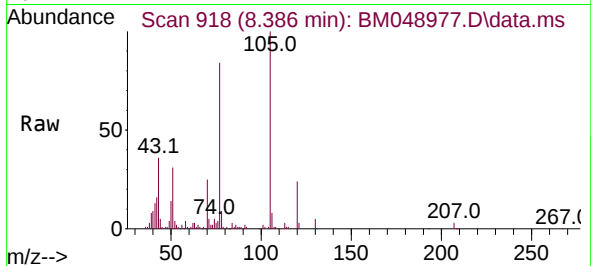
#16  
Acetophenone  
Concen: 3.837 ng/ul  
RT: 8.386 min Scan# 918  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08

Tgt Ion:105 Resp: 8585  
Ion Ratio Lower Upper  
105 100  
77 83.6 64.2 96.2  
51 30.6 23.7 35.5

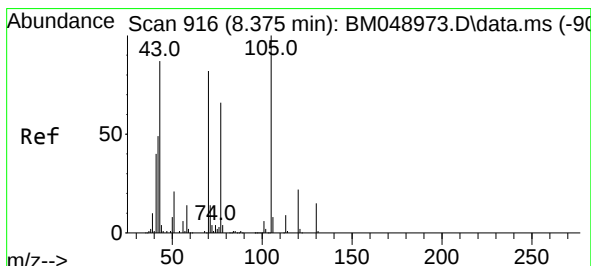
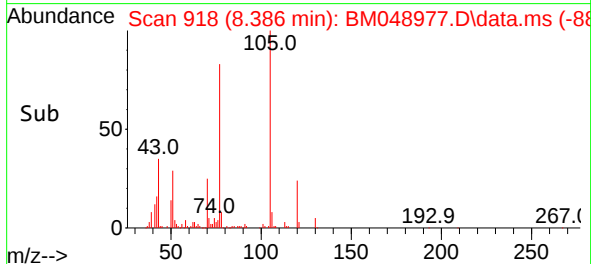
Manual Integrations  
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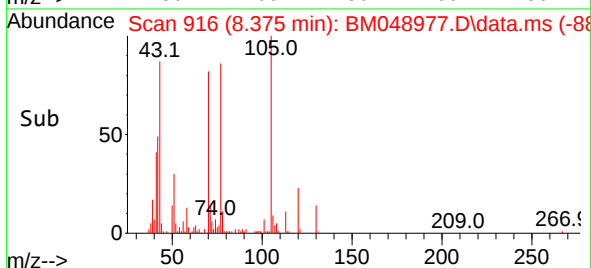
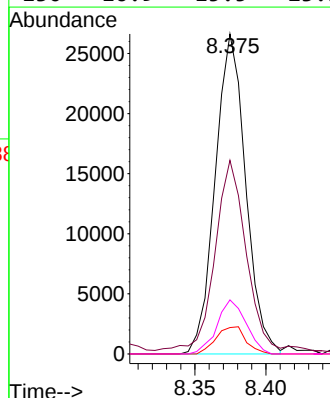
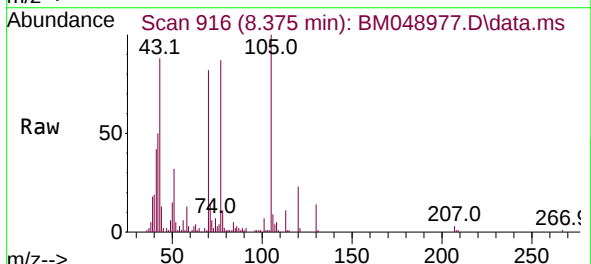
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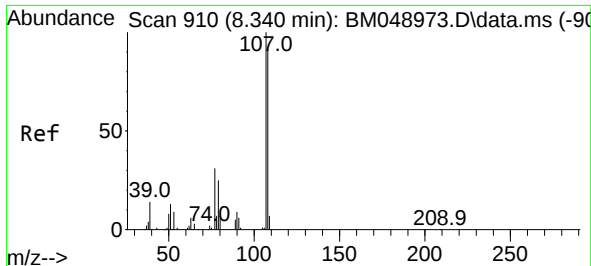
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#17  
N-Nitroso-di-n-propylamine  
Concen: 3.641 ng/ul  
RT: 8.375 min Scan# 916  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

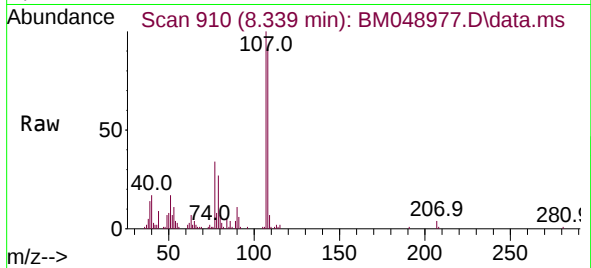
Tgt Ion: 70 Resp: 39702  
Ion Ratio Lower Upper  
70 100  
42 60.5 49.6 74.4  
101 8.3 6.9 10.3  
130 16.9 15.5 23.3





#18  
4-Methylphenol  
Concen: 3.557 ng/ul  
RT: 8.339 min Scan# 910  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

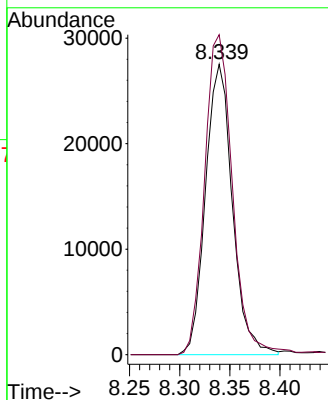
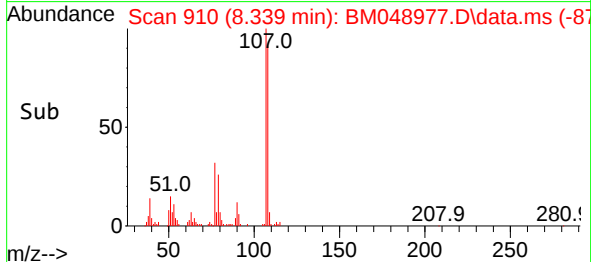
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:108 Resp: 51528  
Ion Ratio Lower Upper  
108 100  
107 110.2 89.4 134.0

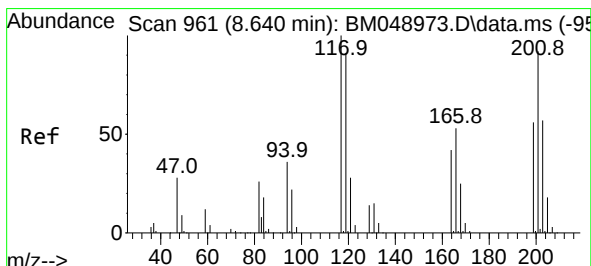
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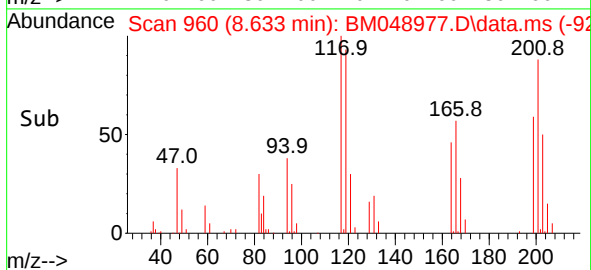
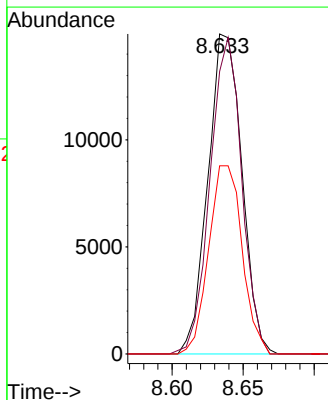
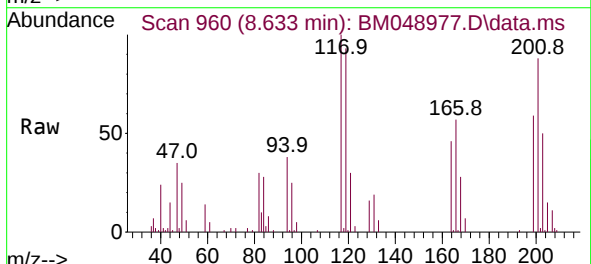
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ahmed

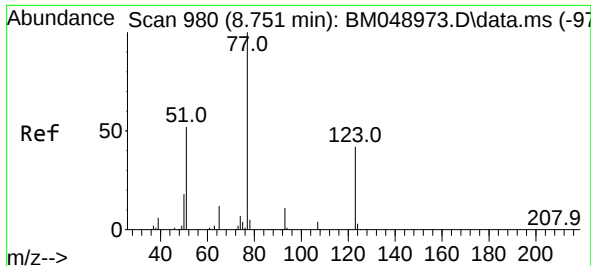
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#19  
Hexachloroethane  
Concen: 4.210 ng/ul  
RT: 8.633 min Scan# 960  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

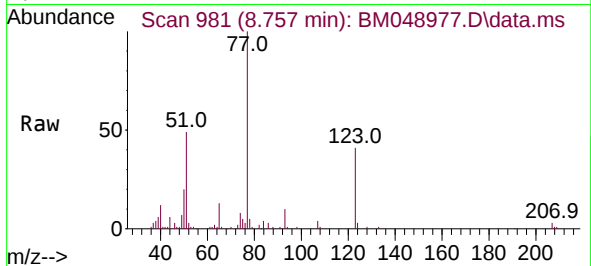
Tgt Ion:117 Resp: 24839  
Ion Ratio Lower Upper  
117 100  
201 88.3 72.2 108.4  
199 58.8 45.6 68.4





#22  
Nitrobenzene  
Concen: 4.056 ng/ul  
RT: 8.757 min Scan# 980  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

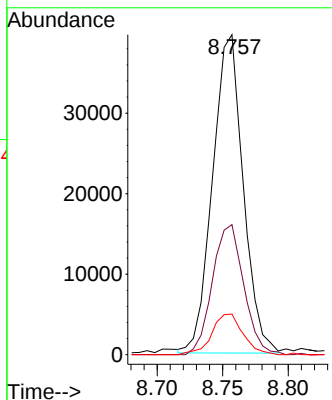
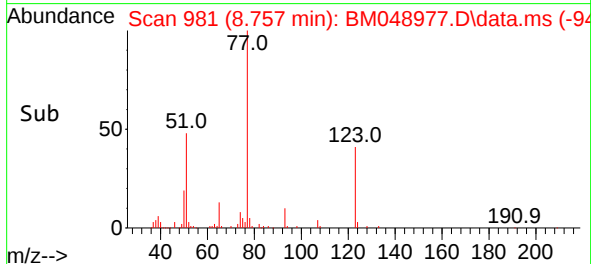
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion: 77 Resp: 64228  
Ion Ratio Lower Upper  
77 100  
123 40.7 34.3 51.5  
65 12.7 10.0 15.0

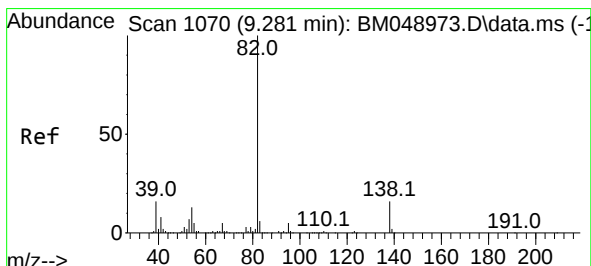
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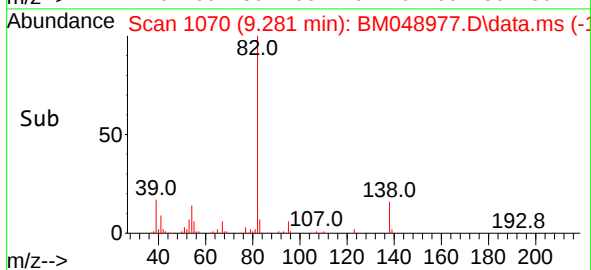
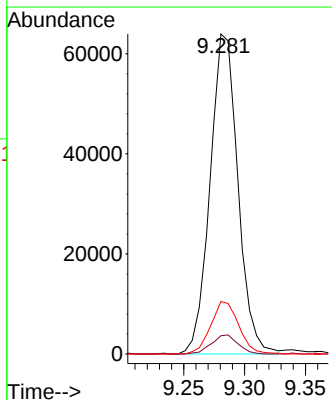
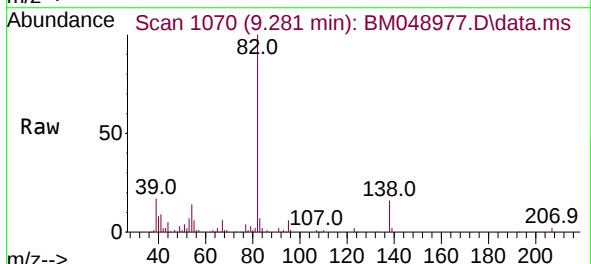
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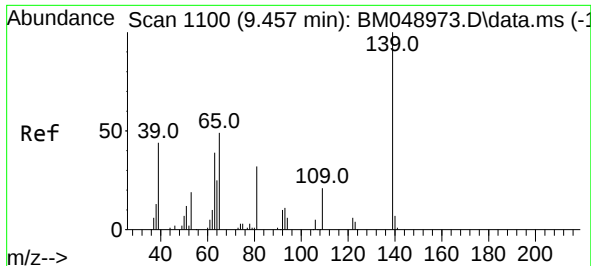
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#23  
Isophorone  
Concen: 3.639 ng/ul  
RT: 9.281 min Scan# 1070  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Tgt Ion: 82 Resp: 101871  
Ion Ratio Lower Upper  
82 100  
95 5.7 4.7 7.1  
138 16.4 13.7 20.5





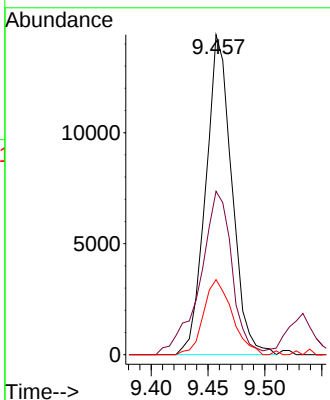
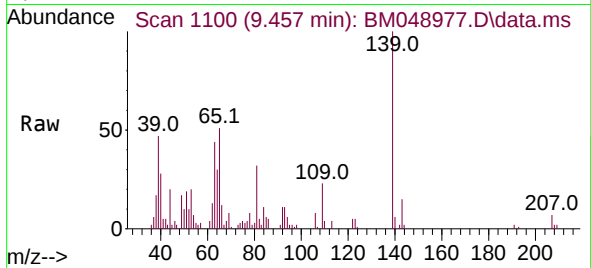
#25  
2-Nitrophenol  
Concen: 3.663 ng/ul  
RT: 9.457 min Scan# 1100  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08

Tgt Ion:139 Resp: 23070  
Ion Ratio Lower Upper  
139 100  
65 51.1 41.4 62.0  
109 23.5 17.8 26.6

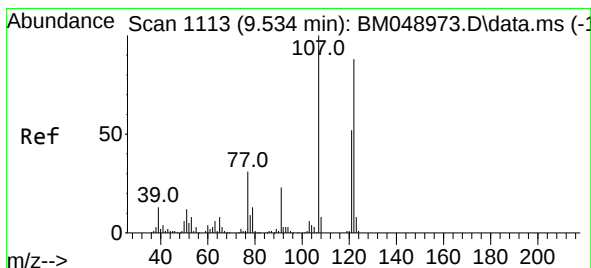
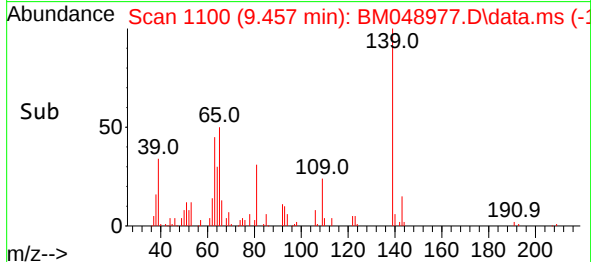
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Supervised By :mohammad ahmed 12/14/2024



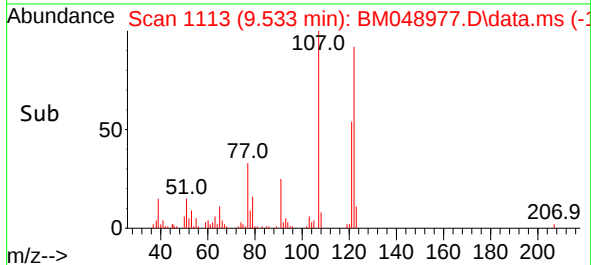
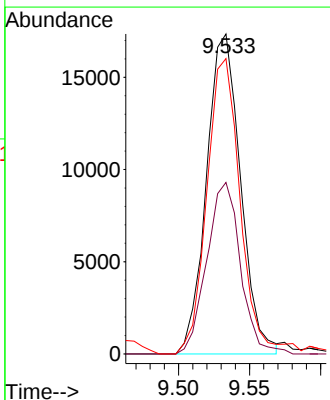
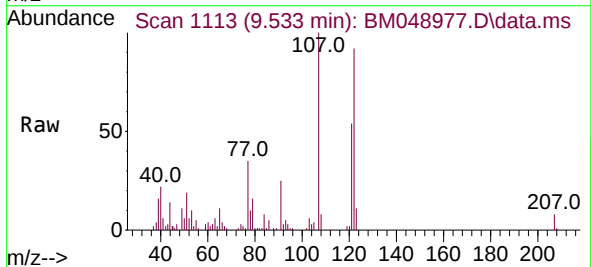
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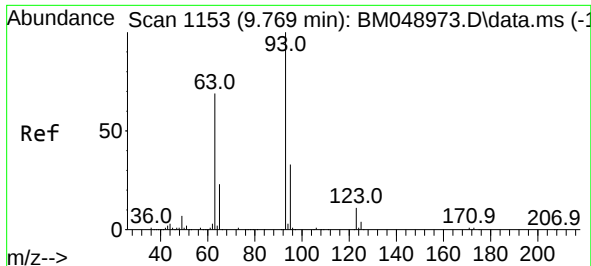
12/14/2024



#26  
2,4-Dimethylphenol  
Concen: 2.214 ng/ul  
RT: 9.533 min Scan# 1113  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

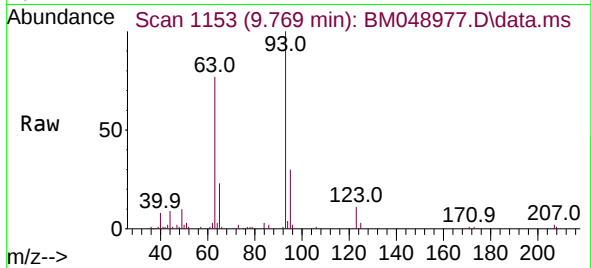
Tgt Ion:107 Resp: 28949  
Ion Ratio Lower Upper  
107 100  
121 53.6 40.2 60.4  
122 92.3 68.6 102.8





#27  
Bis(2-Chloroethoxy)methane  
Concen: 3.900 ng/ul  
RT: 9.769 min Scan# 1153  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

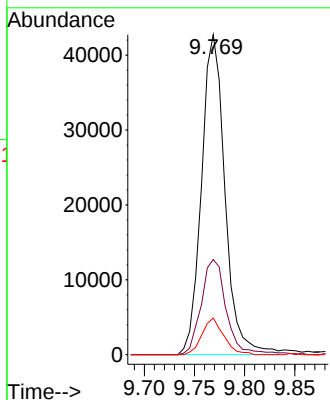
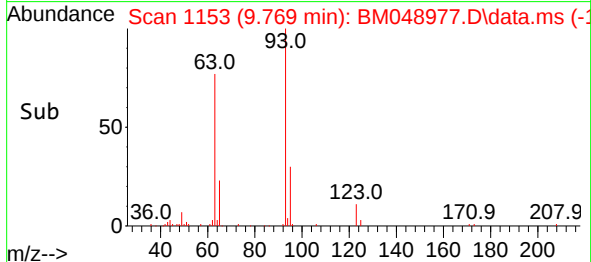
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion: 93 Resp: 69784  
Ion Ratio Lower Upper  
93 100  
95 29.8 26.6 40.0  
123 11.5 8.8 13.2

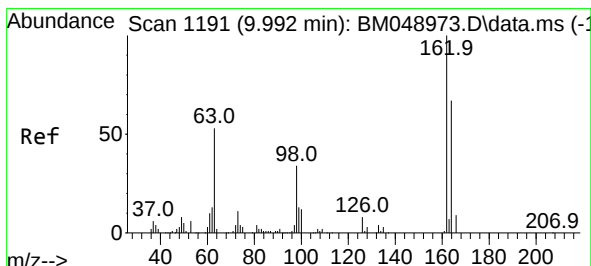
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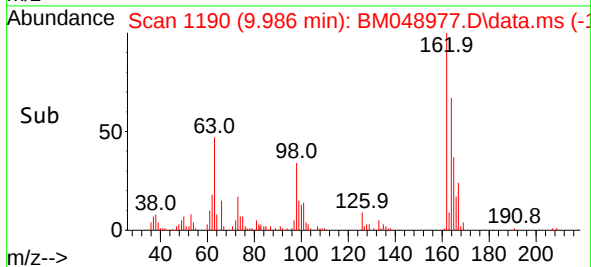
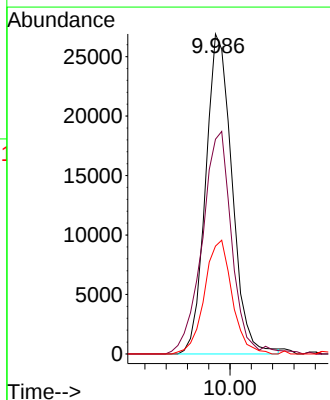
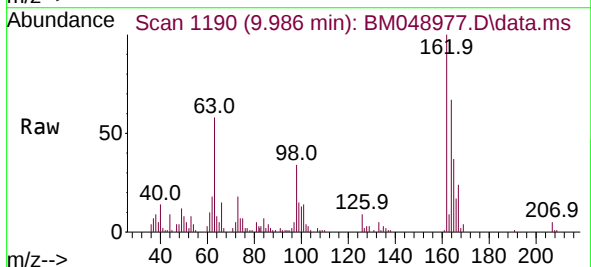
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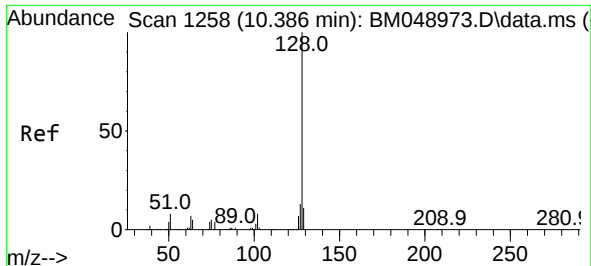
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#29  
2,4-Dichlorophenol  
Concen: 3.936 ng/ul  
RT: 9.986 min Scan# 1190  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

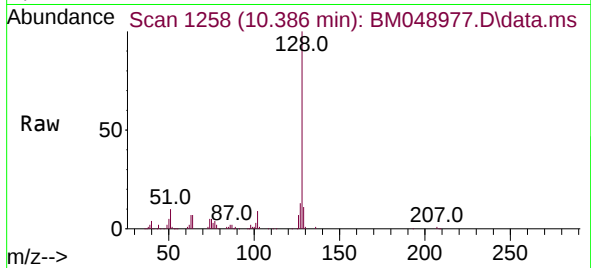
Tgt Ion:162 Resp: 46234  
Ion Ratio Lower Upper  
162 100  
164 67.1 50.5 75.7  
98 33.7 28.3 42.5





#30  
Naphthalene  
Concen: 4.085 ng/ul  
RT: 10.386 min Scan# 1258  
Delta R.T. 0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

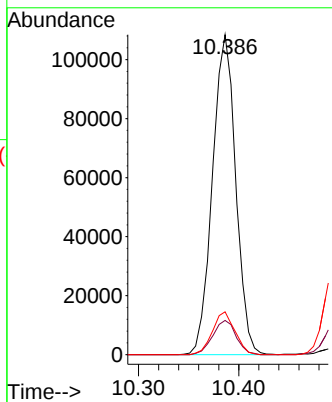
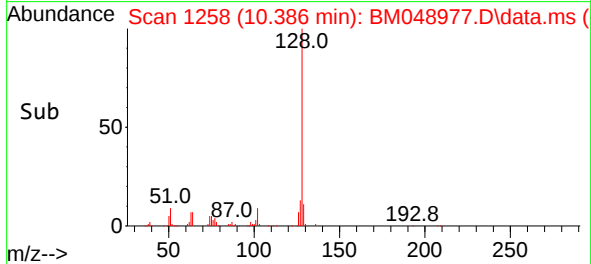
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:128 Resp: 174792  
Ion Ratio Lower Upper  
128 100  
129 10.7 8.7 13.1  
127 13.4 10.1 15.1

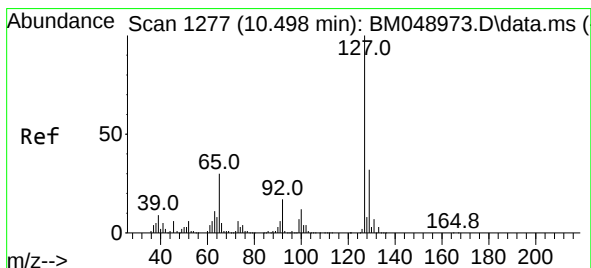
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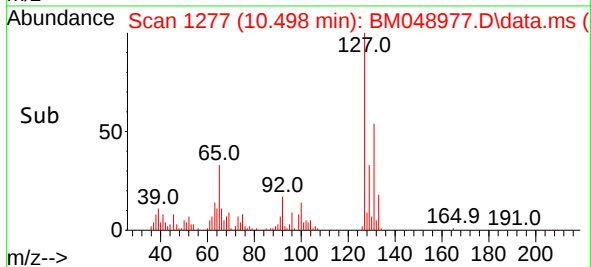
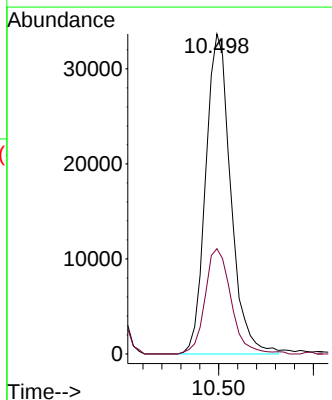
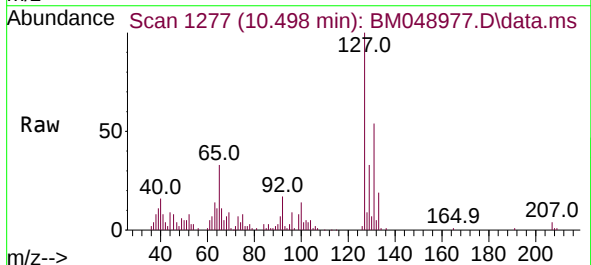
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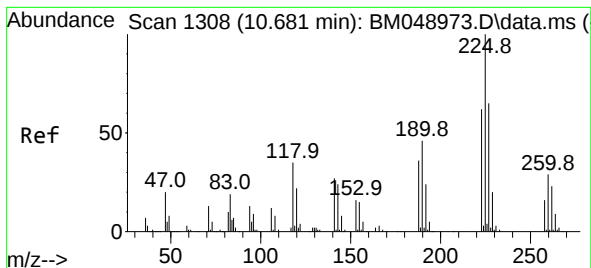
12/14/2024



#32  
4-Chloroaniline  
Concen: 3.618 ng/ul  
RT: 10.498 min Scan# 1277  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

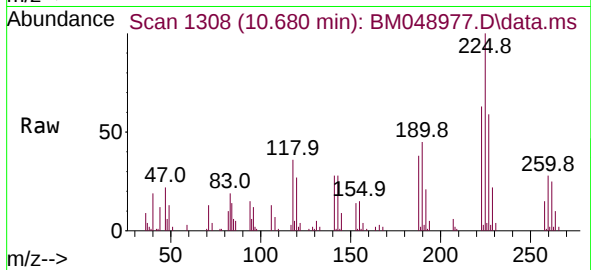
Tgt Ion:127 Resp: 61708  
Ion Ratio Lower Upper  
127 100  
129 32.9 26.5 39.7





#33  
Hexachlorobutadiene  
Concen: 3.971 ng/ul  
RT: 10.680 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

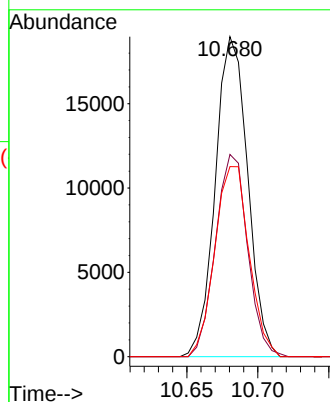
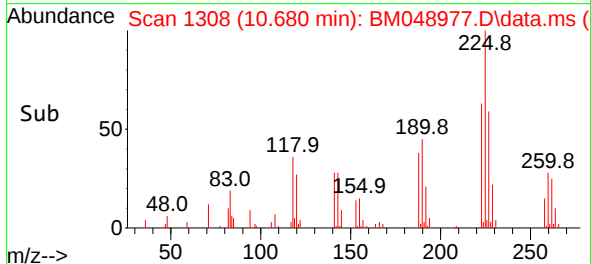
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:225 Resp: 3010  
Ion Ratio Lower Upper  
225 100  
223 63.3 48.9 73.3  
227 57.0 50.9 76.3

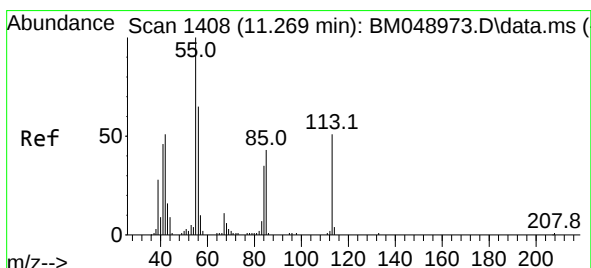
Manual Integrations  
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Supervised By :mohammad ahmed 12/14/2024



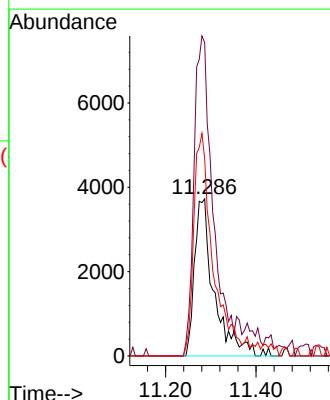
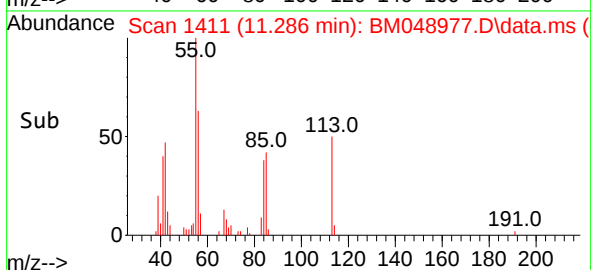
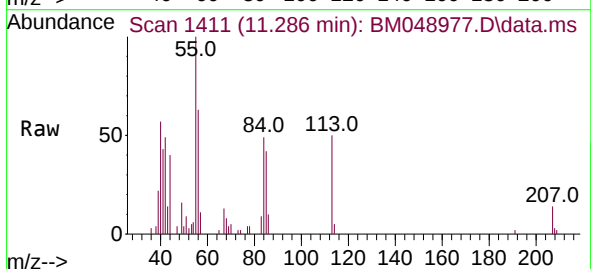
12/14/2024  
Supervised By :mohammad  
ahmed

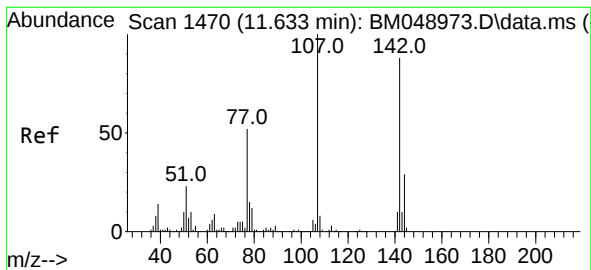
12/14/2024



#34  
Caprolactam  
Concen: 3.013 ng/ul m  
RT: 11.286 min Scan# 1411  
Delta R.T. 0.018 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Tgt Ion:113 Resp: 11150  
Ion Ratio Lower Upper  
113 100  
55 199.6 143.5 215.3  
56 125.6 96.9 145.3





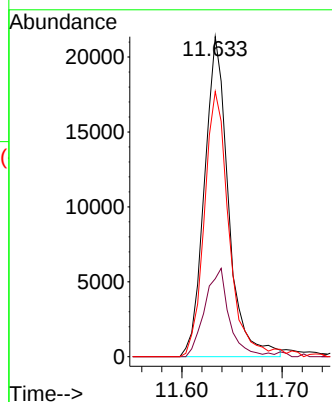
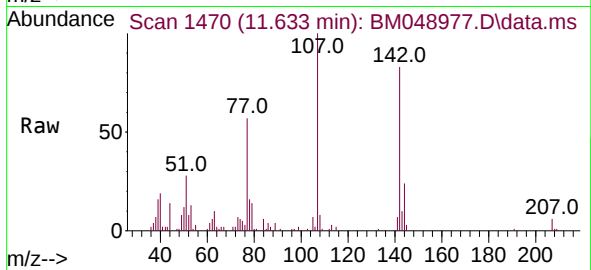
#35  
4-Chloro-3-methylphenol  
Concen: 3.166 ng/ul  
RT: 11.633 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08

Tgt Ion:107 Resp: 3556  
Ion Ratio Lower Upper  
107 100  
144 24.3 22.2 33.4  
142 82.8 66.6 99.8

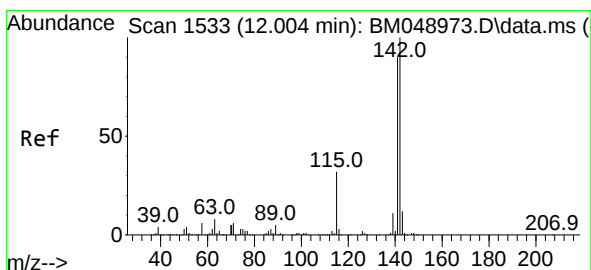
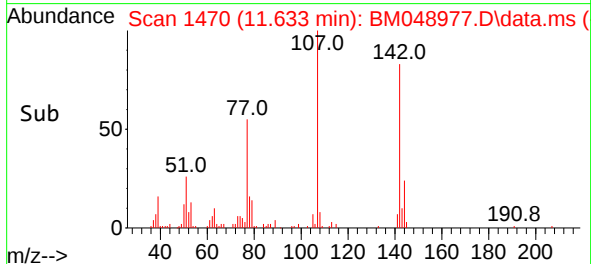
Manual Integrations  
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Supervised By :mohammad ahmed 12/14/2024



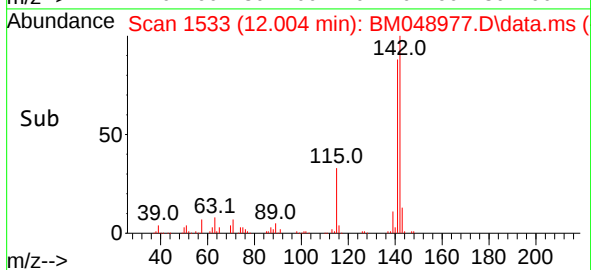
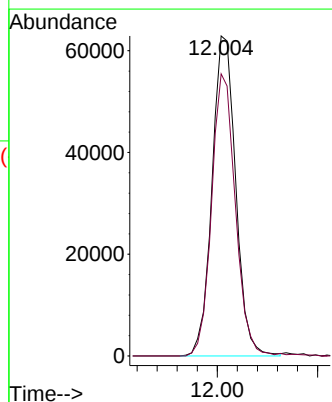
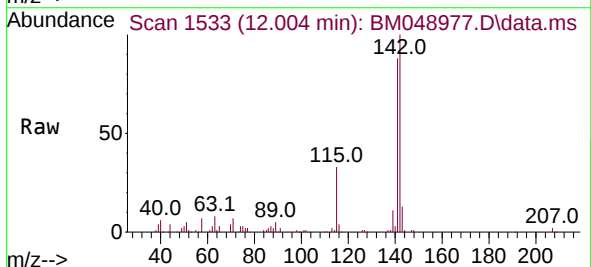
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ahmed

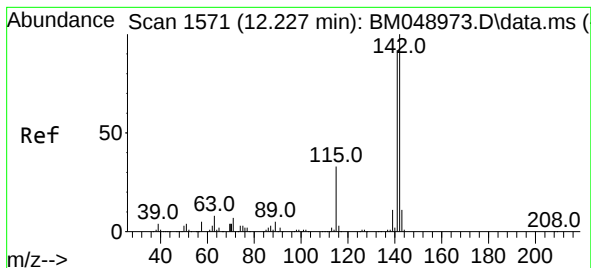
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#36  
2-Methylnaphthalene  
Concen: 3.797 ng/ul  
RT: 12.004 min Scan# 1533  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Tgt Ion:142 Resp: 102916  
Ion Ratio Lower Upper  
142 100  
141 88.1 70.9 106.3





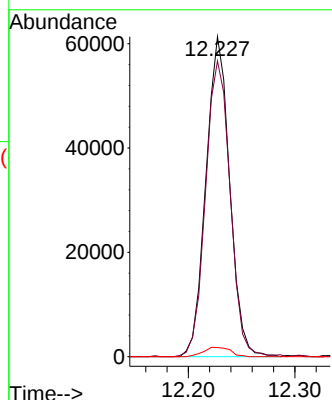
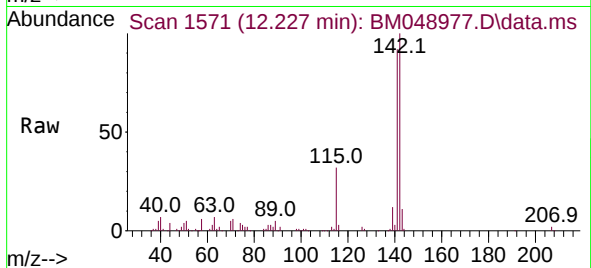
#37  
1-Methylnaphthalene  
Concen: 3.512 ng/ul  
RT: 12.227 min Scan# 1571  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Instrument : BNA\_M  
ClientSampleId : MDL-SOIL-QT4-2024-08

Tgt Ion:142 Resp: 9511  
Ion Ratio Lower Upper  
142 100  
141 92.4 75.1 112.7  
116 2.9 2.9 4.3

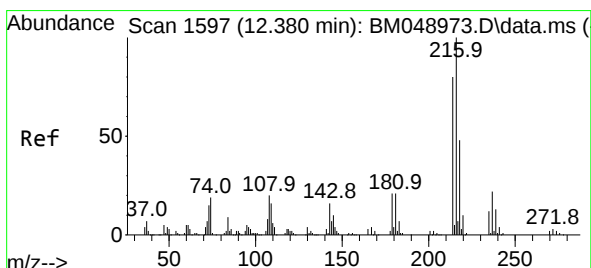
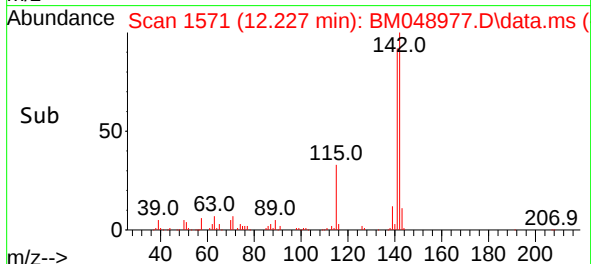
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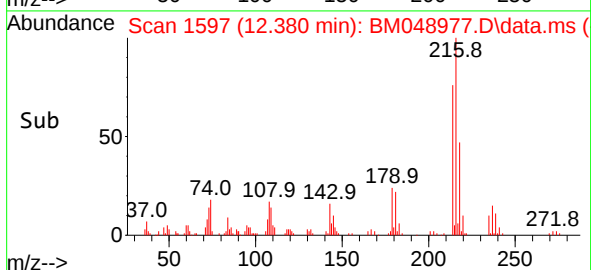
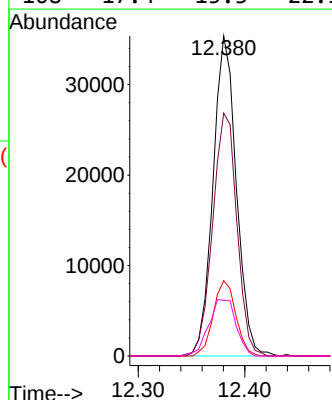
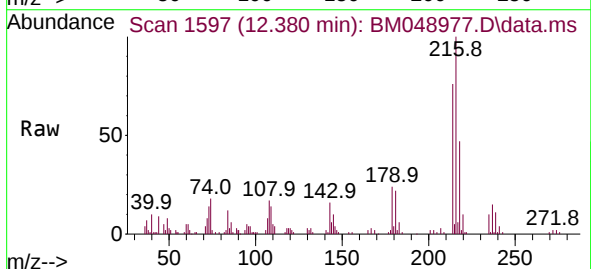
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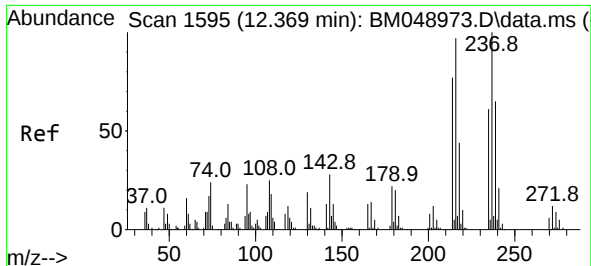
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#39  
1,2,4,5-Tetrachlorobenzene  
Concen: 4.013 ng/ul  
RT: 12.380 min Scan# 1597  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

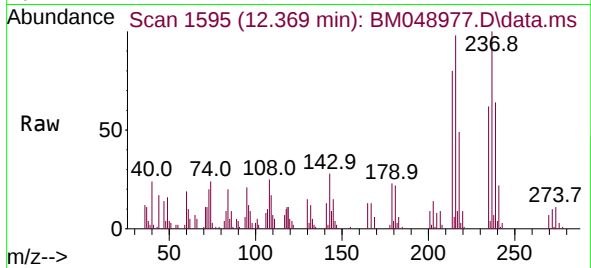
Tgt Ion:216 Resp: 53877  
Ion Ratio Lower Upper  
216 100  
214 75.9 63.7 95.5  
179 23.6 17.8 26.8  
108 17.4 15.3 22.9





#40  
Hexachlorocyclopentadiene  
Concen: 2.662 ng/ul  
RT: 12.369 min Scan# 1595  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

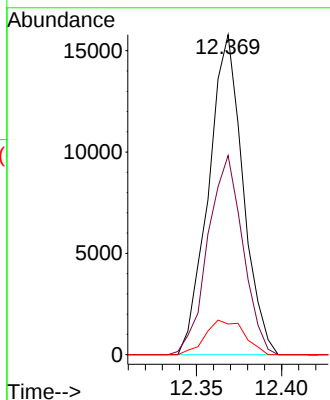
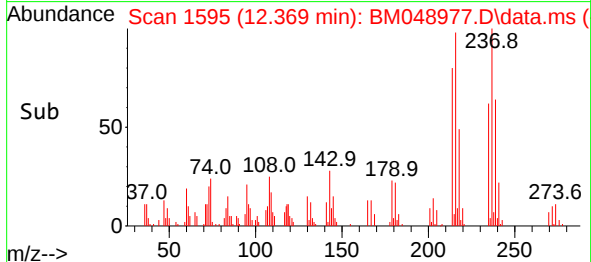
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:237 Resp: 22190  
Ion Ratio Lower Upper  
237 100  
235 62.2 50.5 75.7  
272 10.6 9.8 14.6

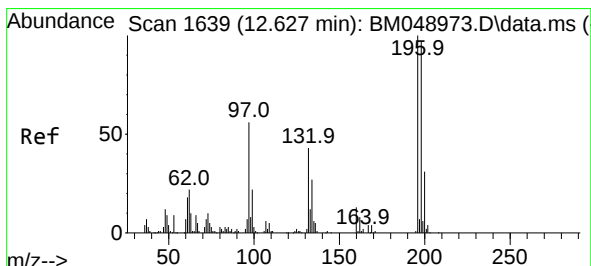
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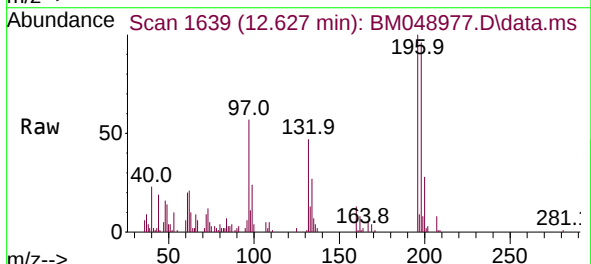


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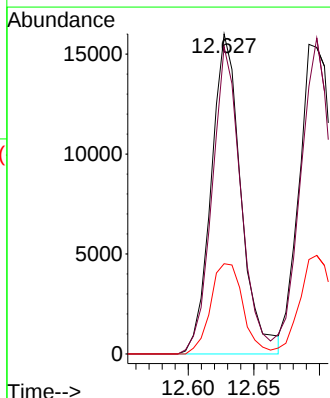
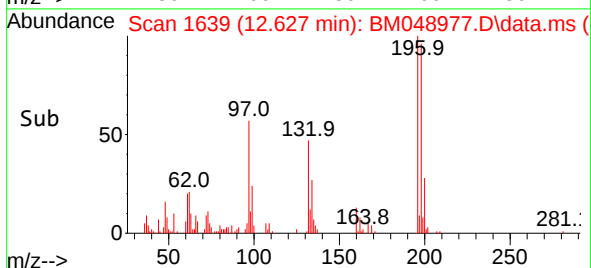
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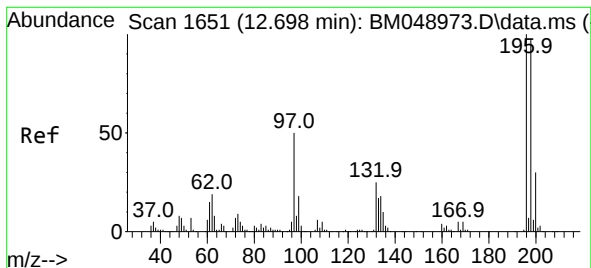


#41  
2,4,6-Trichlorophenol  
Concen: 3.357 ng/ul  
RT: 12.627 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51



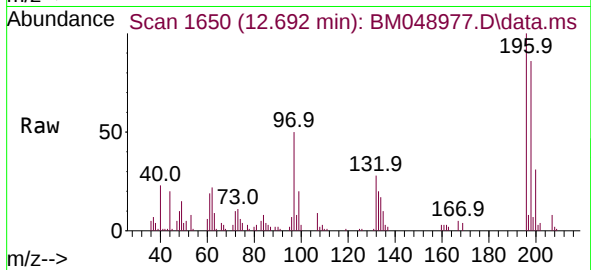
Tgt Ion:196 Resp: 25284  
Ion Ratio Lower Upper  
196 100  
198 96.0 77.9 116.9  
200 28.2 25.0 37.6





#42  
2,4,5-Trichlorophenol  
Concen: 3.250 ng/ul  
RT: 12.692 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

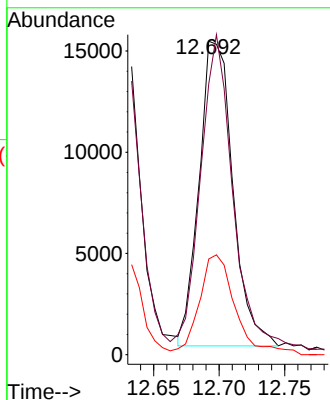
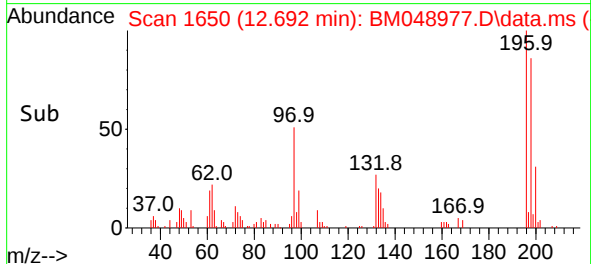
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:196 Resp: 26940  
Ion Ratio Lower Upper  
196 100  
198 86.4 75.4 113.0  
200 30.5 24.4 36.6

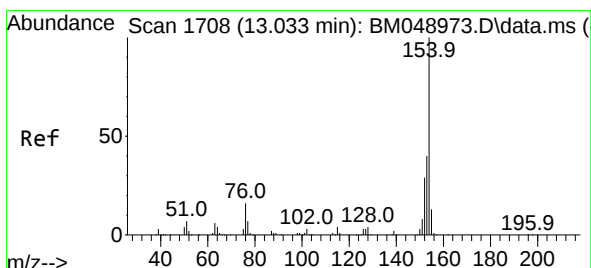
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Supervised By :mohammad ahmed 12/14/2024

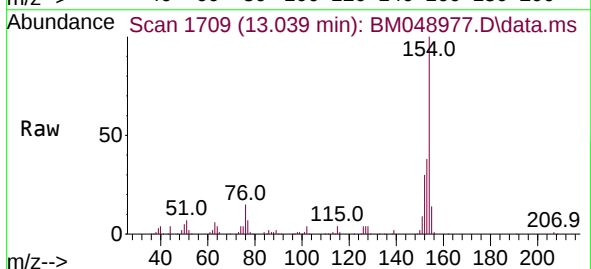


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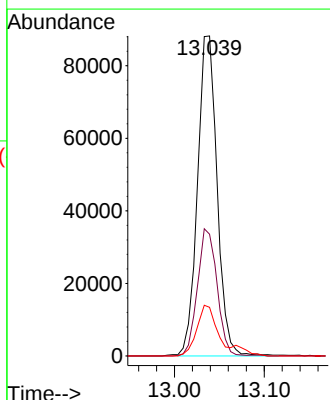
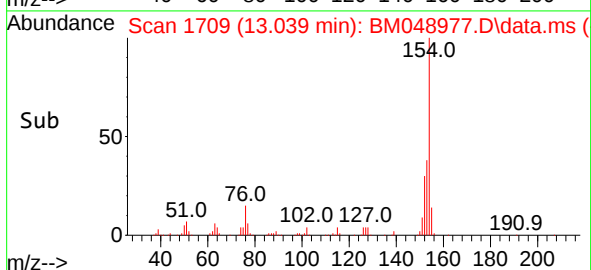
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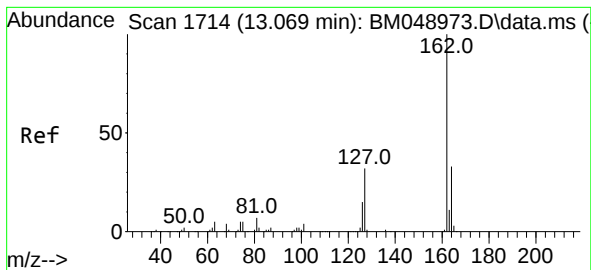


#43  
1,1'-Biphenyl  
Concen: 4.043 ng/ul  
RT: 13.039 min Scan# 1709  
Delta R.T. 0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51



Tgt Ion:154 Resp: 134214  
Ion Ratio Lower Upper  
154 100  
153 38.0 31.4 47.0  
76 15.2 12.2 18.4





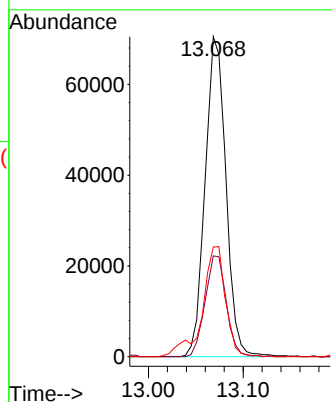
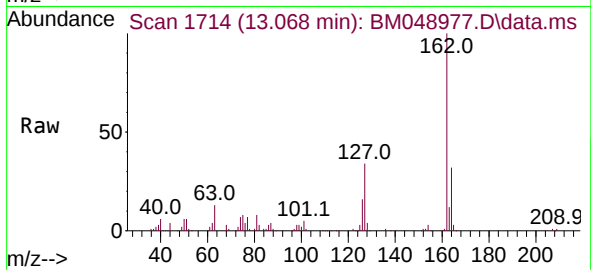
#44  
2-Chloronaphthalene  
Concen: 4.076 ng/ul  
RT: 13.068 min Scan# 1714  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Instrument : BNA\_M  
ClientSampleId : MDL-SOIL-QT4-2024-08

Tgt Ion:162 Resp: 107509  
Ion Ratio Lower Upper  
162 100  
164 31.5 26.2 39.2  
127 34.3 28.6 42.8

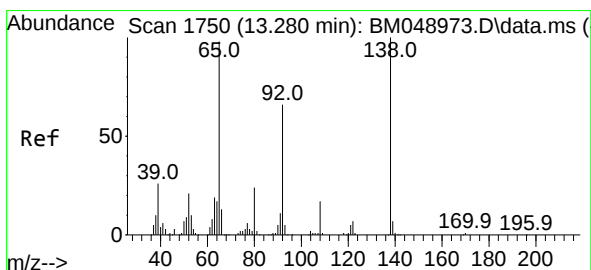
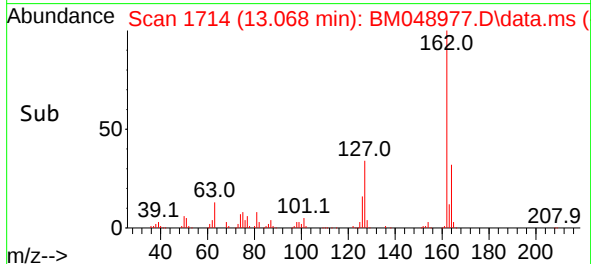
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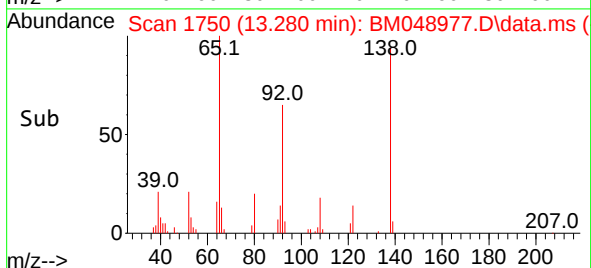
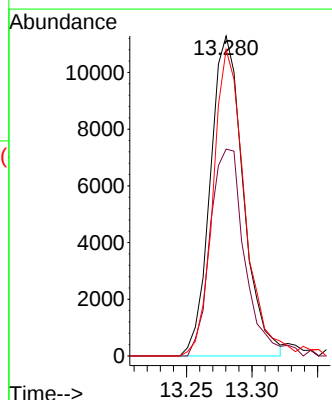
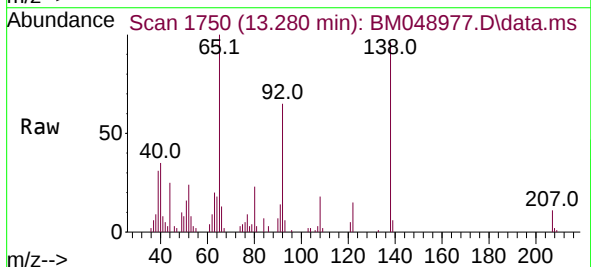
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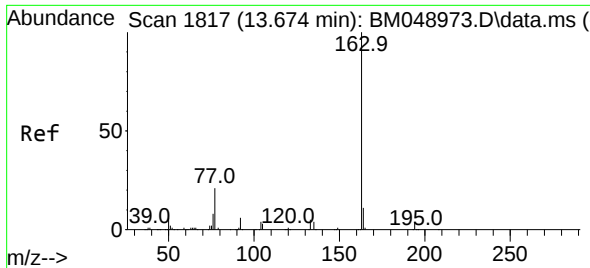
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#45  
2-Nitroaniline  
Concen: 2.922 ng/ul  
RT: 13.280 min Scan# 1750  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

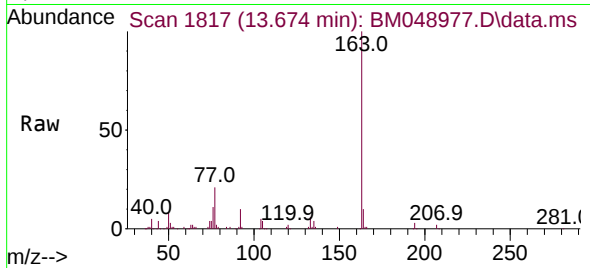
Tgt Ion: 65 Resp: 19770  
Ion Ratio Lower Upper  
65 100  
92 64.7 54.6 81.8  
138 95.7 76.1 114.1





#47  
Dimethylphthalate  
Concen: 3.844 ng/ul  
RT: 13.674 min Scan# 1817  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

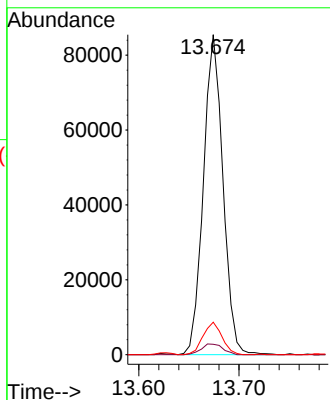
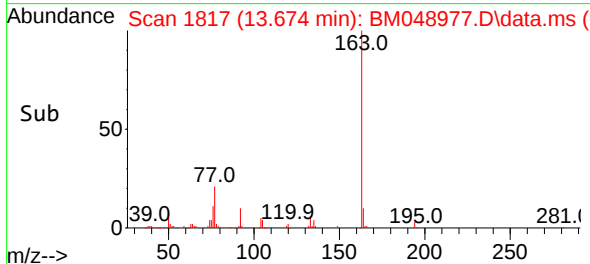
Instrument : BNA\_M  
ClientSampleId : MDL-SOIL-QT4-2024-08



Tgt Ion:163 Resp: 11614  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.7 4.1  
164 10.2 8.2 12.2

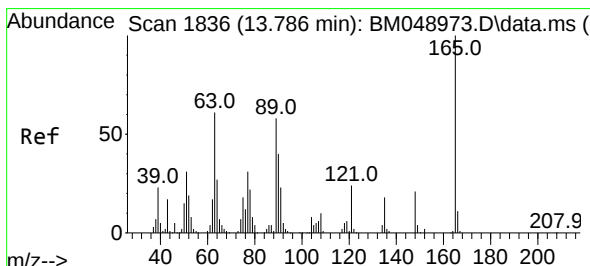
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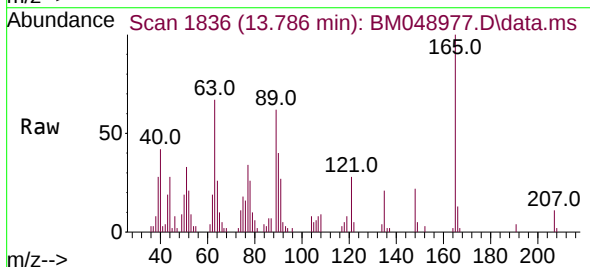


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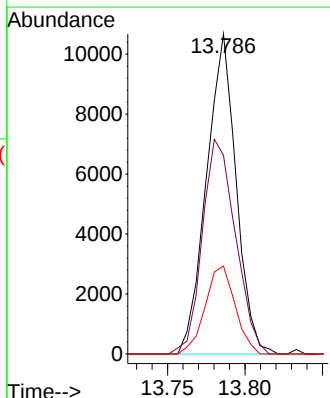
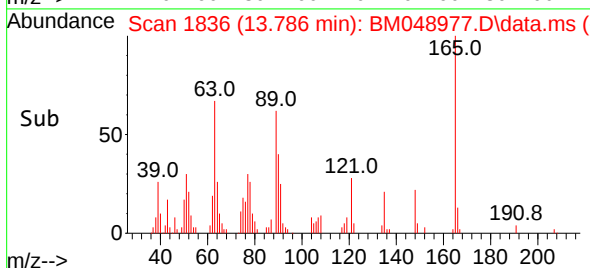
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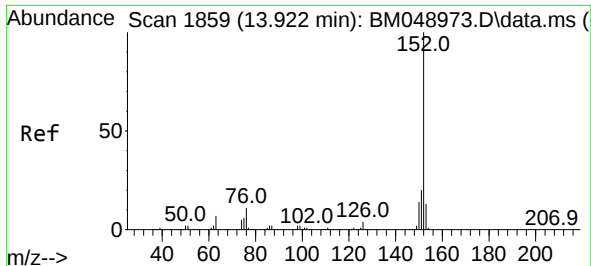


#48  
2,6-Dinitrotoluene  
Concen: 2.789 ng/ul  
RT: 13.786 min Scan# 1836  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51



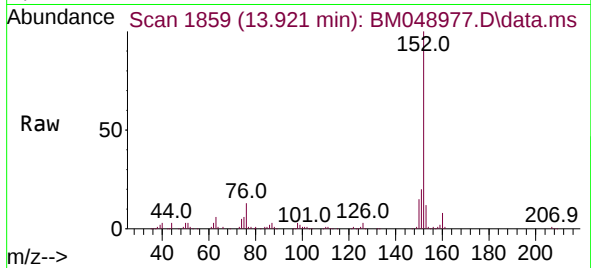
Tgt Ion:165 Resp: 14207  
Ion Ratio Lower Upper  
165 100  
89 62.1 52.4 78.6  
121 27.5 18.0 27.0#





#50  
Acenaphthylene  
Concen: 4.147 ng/ul  
RT: 13.921 min Scan# 1859  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

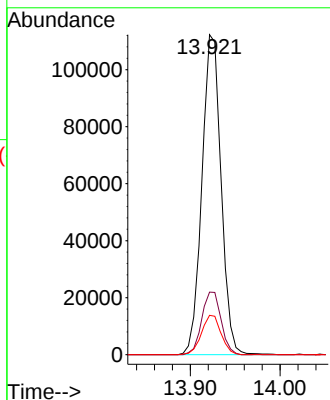
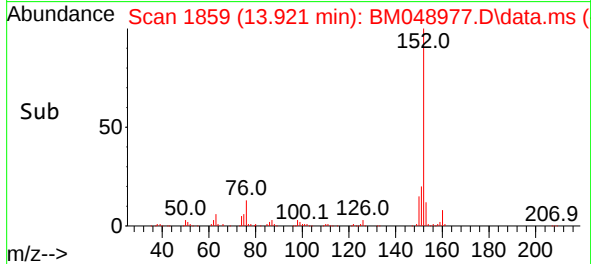
Instrument : BNA\_M  
ClientSampleId : MDL-SOIL-QT4-2024-08



Tgt Ion:152 Resp: 16637  
Ion Ratio Lower Upper  
152 100  
151 19.5 16.2 24.4  
153 12.3 10.3 15.5

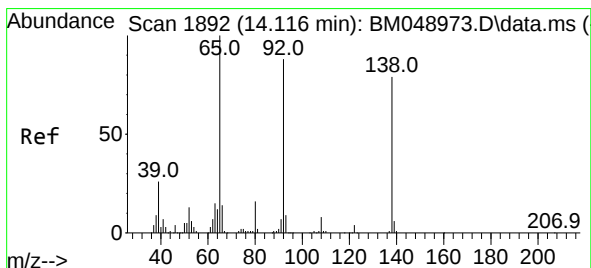
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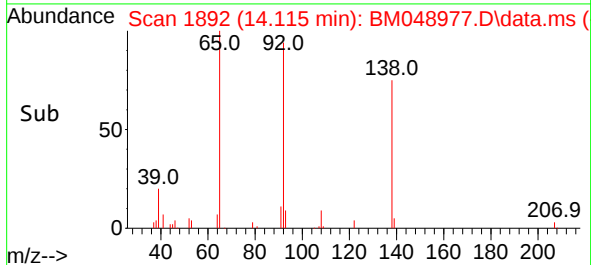
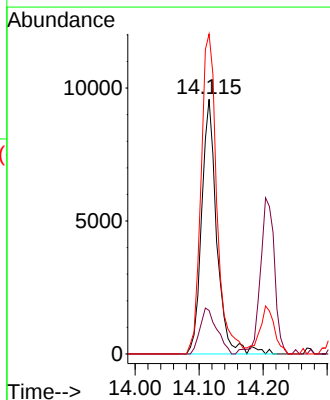
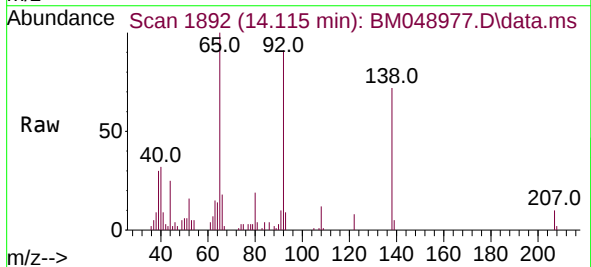
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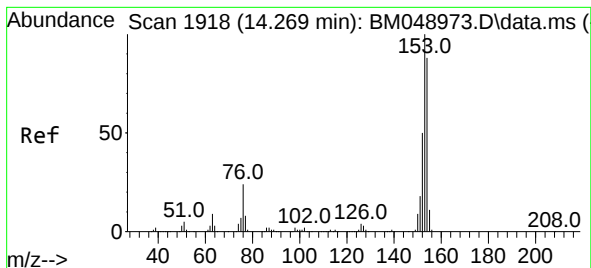
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#51  
3-Nitroaniline  
Concen: 2.665 ng/ul m  
RT: 14.115 min Scan# 1892  
Delta R.T. 0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Tgt Ion:138 Resp: 15813  
Ion Ratio Lower Upper  
138 100  
108 17.1 8.6 13.0#  
92 125.7 93.8 140.6





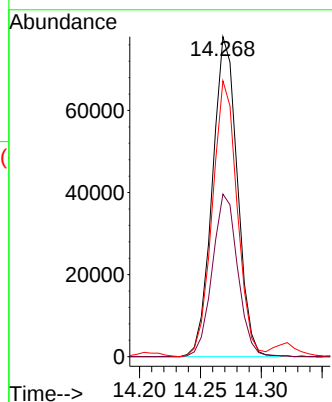
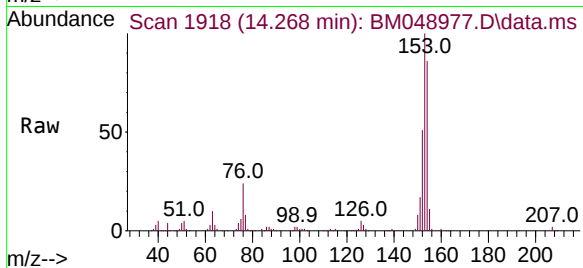
#52  
Acenaphthene  
Concen: 3.911 ng/ul  
RT: 14.268 min Scan# 1918  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08

Tgt Ion:153 Resp: 11132  
Ion Ratio Lower Upper  
153 100  
152 50.8 39.1 58.7  
154 86.2 69.1 103.7

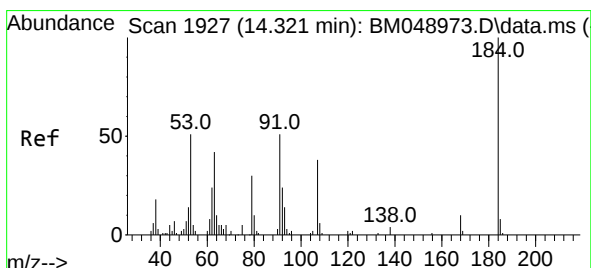
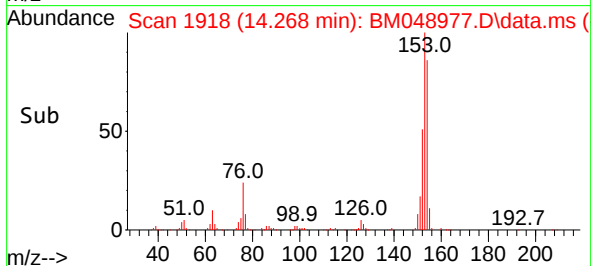
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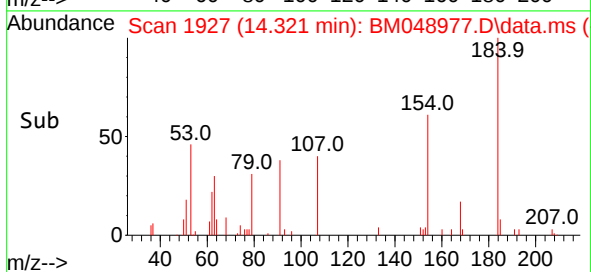
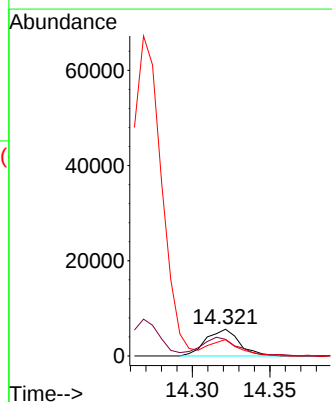
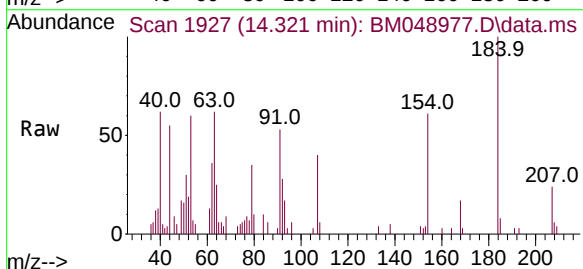
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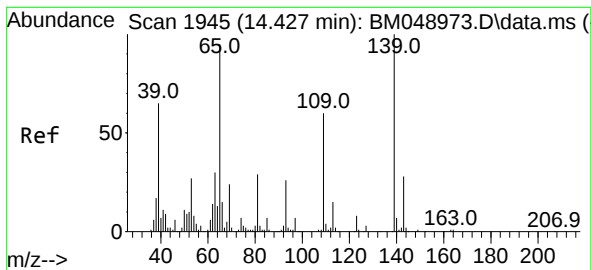
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#53  
2,4-Dinitrophenol  
Concen: 3.157 ng/ul  
RT: 14.321 min Scan# 1927  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Tgt Ion:184 Resp: 8402  
Ion Ratio Lower Upper  
184 100  
63 62.3 61.2 91.8  
154 61.1 48.6 73.0





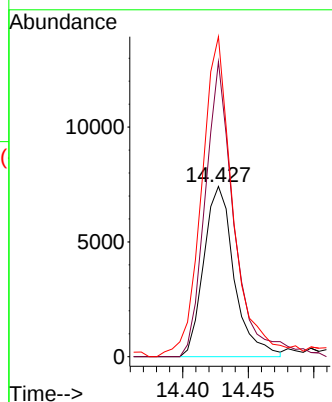
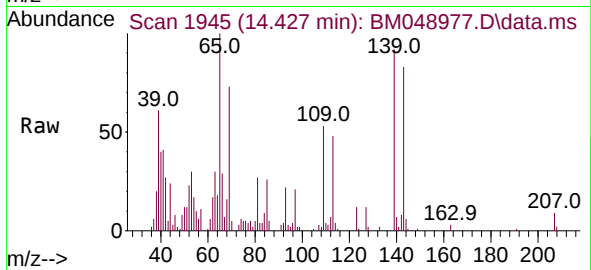
#55  
4-Nitrophenol  
Concen: 2.829 ng/ul  
RT: 14.427 min Scan# 1945  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08

Tgt Ion:109 Resp: 1199  
Ion Ratio Lower Upper  
109 100  
139 173.3 133.8 200.6  
65 188.0 132.3 198.5

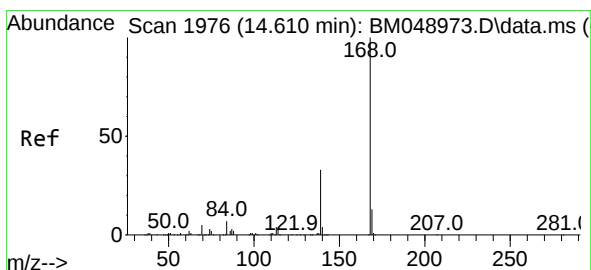
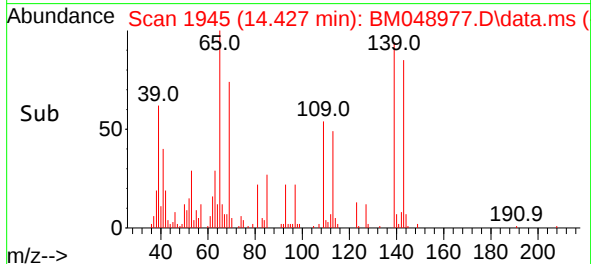
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Supervised By :mohammad ahmed 12/14/2024



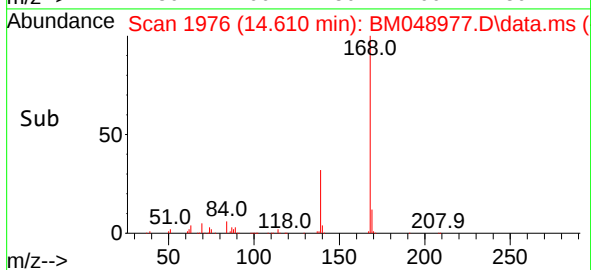
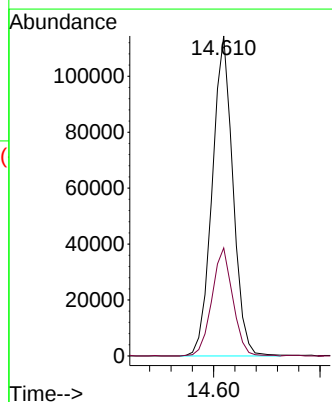
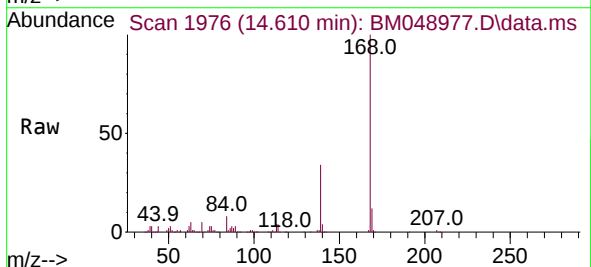
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Supervised By :mohammad  
ahmed

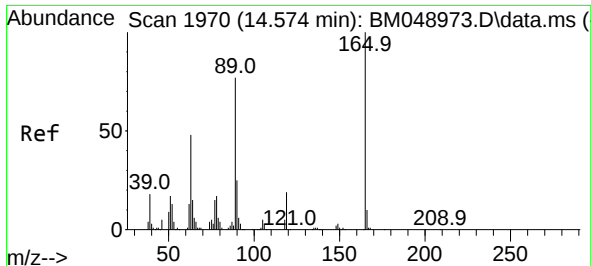
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#56  
Dibenzofuran  
Concen: 4.025 ng/ul  
RT: 14.610 min Scan# 1976  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

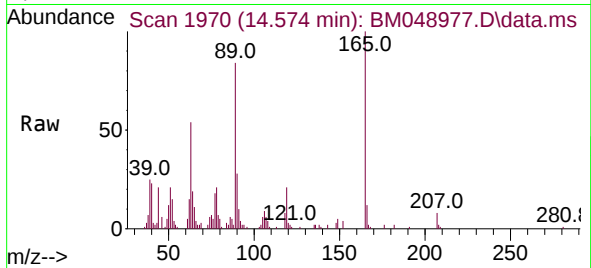
Tgt Ion:168 Resp: 154195  
Ion Ratio Lower Upper  
168 100  
139 33.8 27.6 41.4





#57  
2,4-Dinitrotoluene  
Concen: 3.123 ng/ul  
RT: 14.574 min Scan# 1970  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

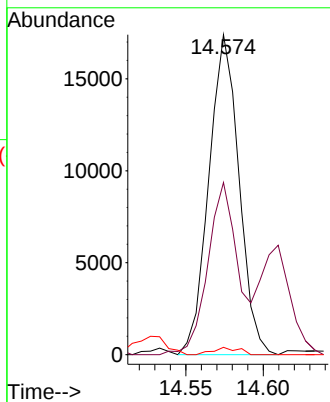
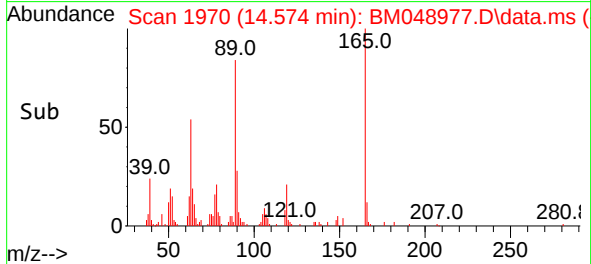
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:165 Resp: 23524  
Ion Ratio Lower Upper  
165 100  
63 53.8 40.9 61.3  
182 2.3 2.0 3.0

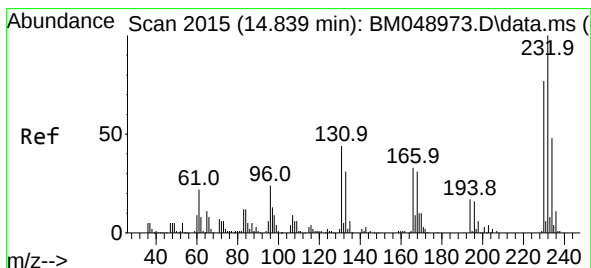
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Supervised By :mohammad ahmed 12/14/2024



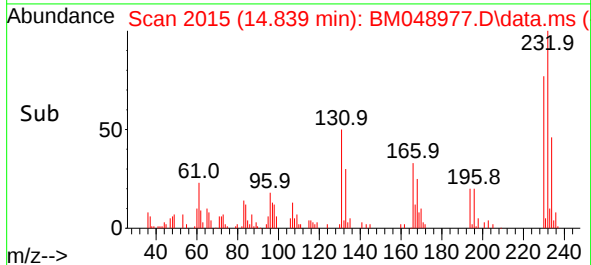
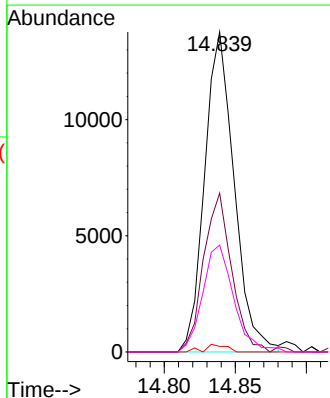
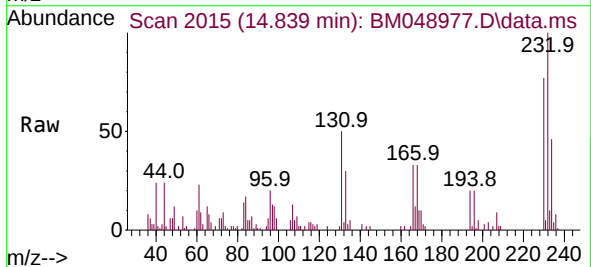
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ahmed

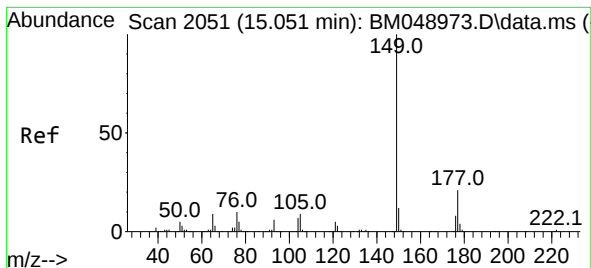
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#58  
2,3,4,6-Tetrachlorophenol  
Concen: 3.282 ng/ul  
RT: 14.839 min Scan# 2015  
Delta R.T. 0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

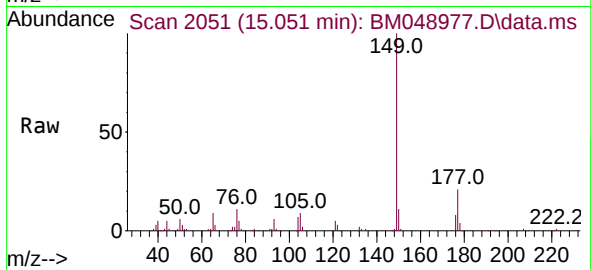
Tgt Ion:232 Resp: 19920  
Ion Ratio Lower Upper  
232 100  
131 49.7 39.3 58.9  
130 1.8 2.3 3.5#  
166 33.4 26.2 39.2





#59  
Diethylphthalate  
Concen: 3.704 ng/ul  
RT: 15.051 min Scan# 2051  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

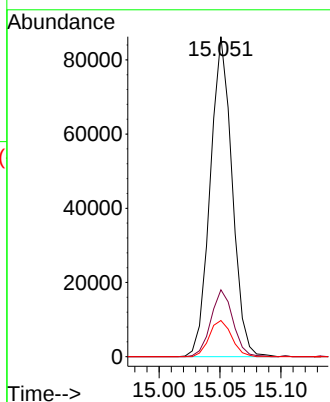
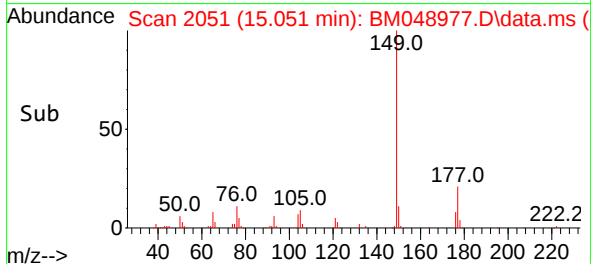
Instrument : BNA\_M  
ClientSampleId : MDL-SOIL-QT4-2024-08



Tgt Ion:149 Resp: 10779  
Ion Ratio Lower Upper  
149 100  
177 20.9 17.5 26.3  
150 11.3 9.4 14.2

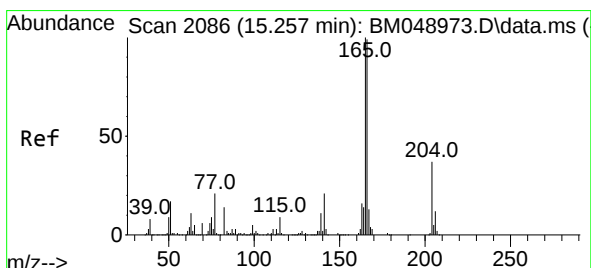
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Supervised By :mohammad ahmed 12/14/2024

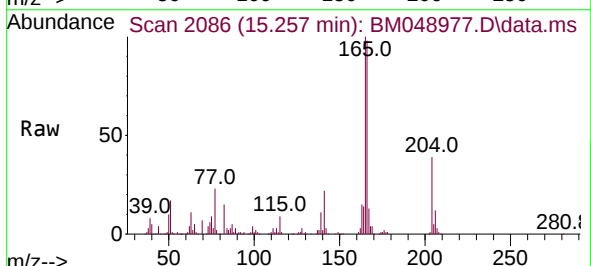


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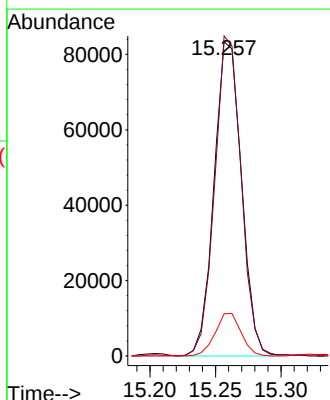
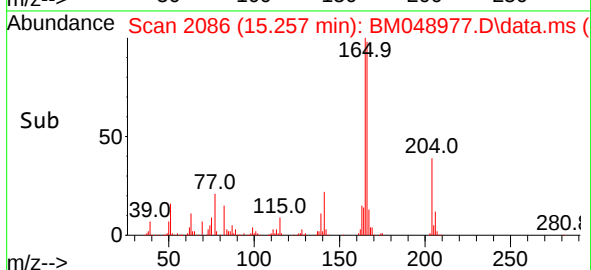
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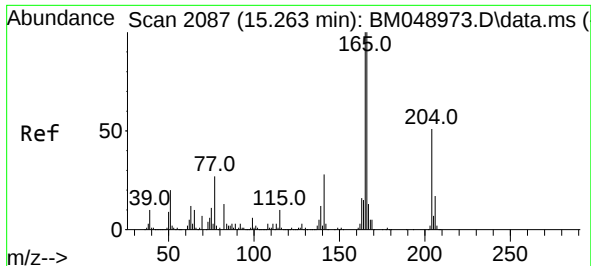


#61  
Fluorene  
Concen: 3.819 ng/ul  
RT: 15.257 min Scan# 2086  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51



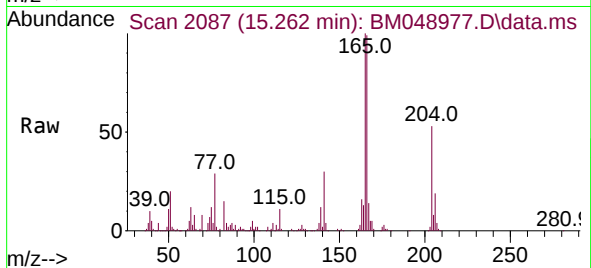
Tgt Ion:166 Resp: 120964  
Ion Ratio Lower Upper  
166 100  
165 101.8 79.8 119.6  
167 13.4 10.6 15.8





#62  
4-Chlorophenyl-phenylether  
Concen: 3.633 ng/ul  
RT: 15.262 min Scan# 2087  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

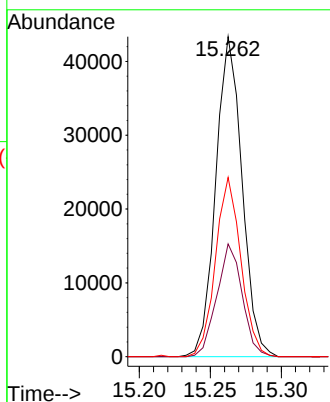
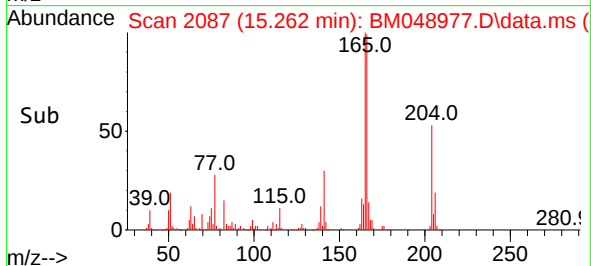
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:204 Resp: 55754  
Ion Ratio Lower Upper  
204 100  
206 35.3 26.4 39.6  
141 56.0 42.2 63.2

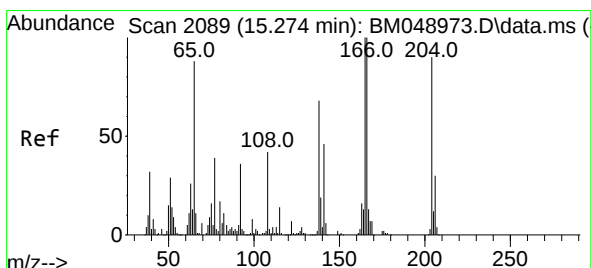
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Supervised By :mohammad ahmed 12/14/2024

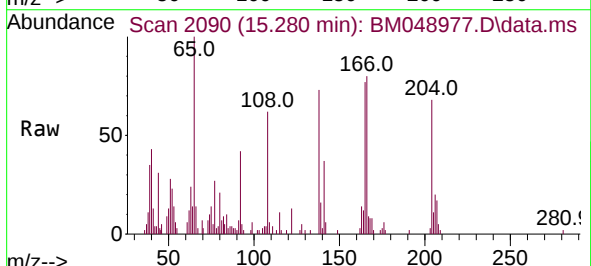


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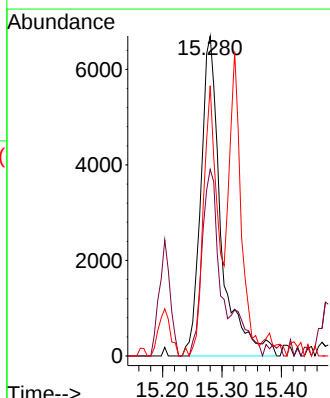
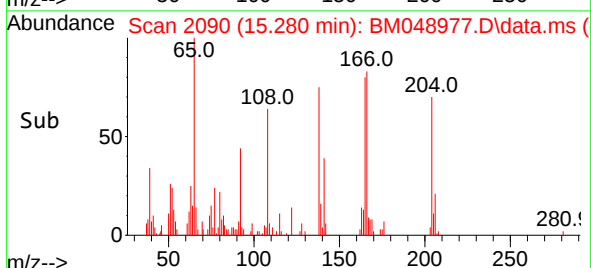
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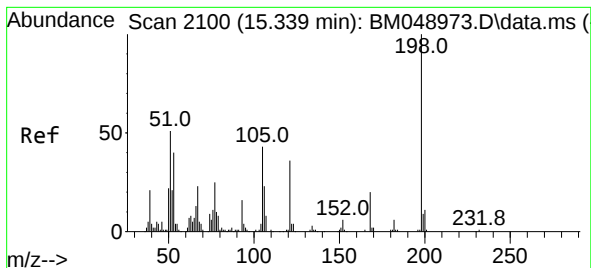


#63  
4-Nitroaniline  
Concen: 2.812 ng/ul m  
RT: 15.280 min Scan# 2090  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51



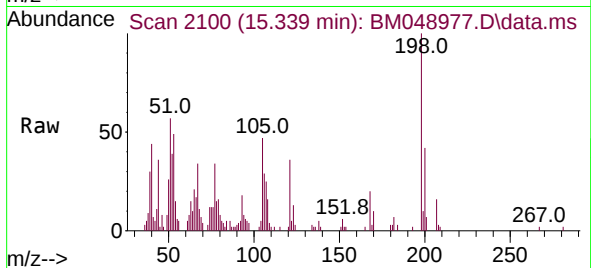
Tgt Ion:138 Resp: 15897  
Ion Ratio Lower Upper  
138 100  
92 58.3 40.6 60.8  
108 84.5 50.3 75.5#





#66  
4,6-Dinitro-2-methylphenol  
Concen: 2.749 ng/ul  
RT: 15.339 min Scan# 2100  
Delta R.T. 0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

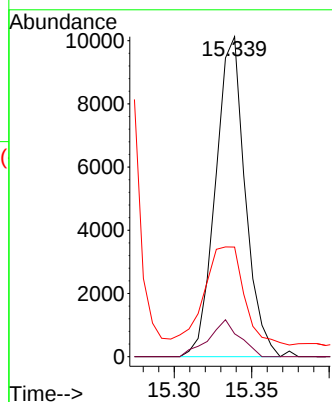
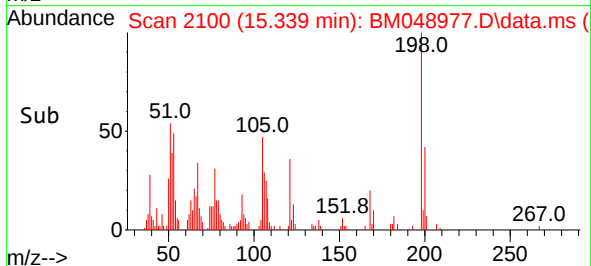
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:198 Resp: 1347  
Ion Ratio Lower Upper  
198 100  
182 7.1 5.3 7.9  
77 34.3 24.3 36.5

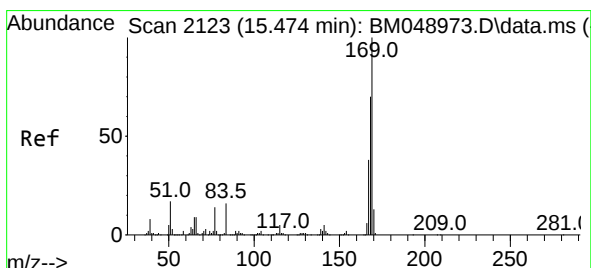
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Supervised By :mohammad ahmed 12/14/2024



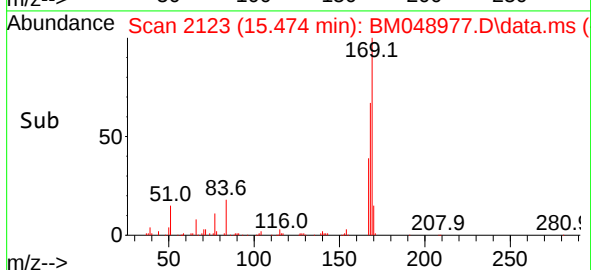
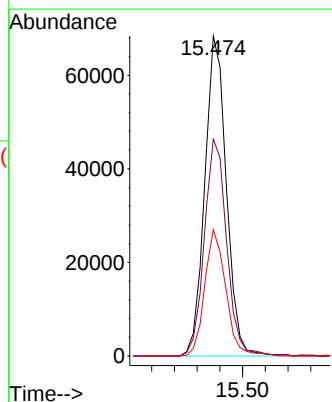
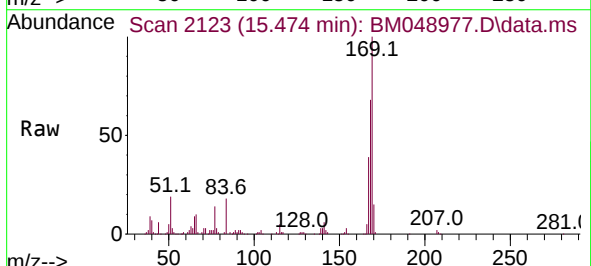
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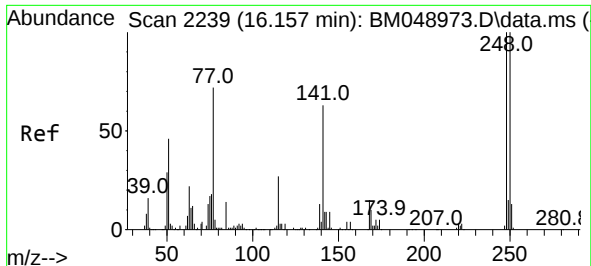
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#67  
N-Nitrosodiphenylamine  
Concen: 3.511 ng/ul  
RT: 15.474 min Scan# 2123  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

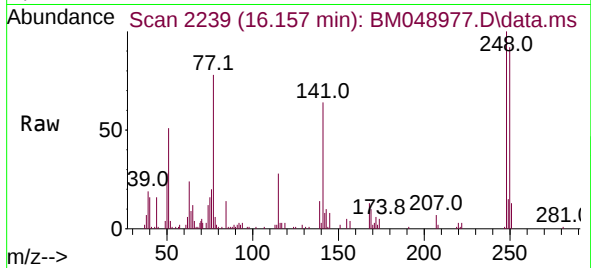
Tgt Ion:169 Resp: 90237  
Ion Ratio Lower Upper  
169 100  
168 67.7 56.9 85.3  
167 39.5 31.9 47.9





#68  
4-Bromophenyl-phenylether  
Concen: 3.506 ng/ul  
RT: 16.157 min Scan# 2113  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

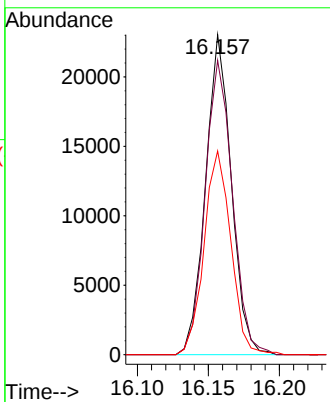
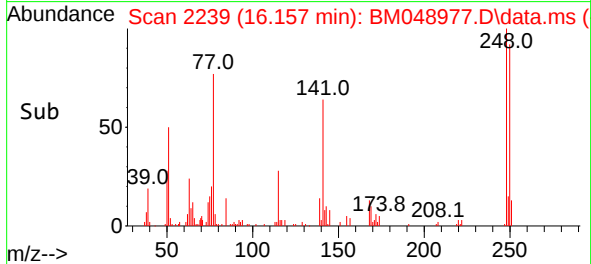
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:248 Resp: 29138  
Ion Ratio Lower Upper  
248 100  
250 91.9 81.4 122.0  
141 63.6 58.8 88.2

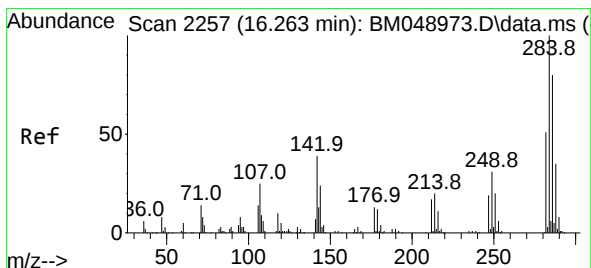
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Supervised By :mohammad ahmed 12/14/2024



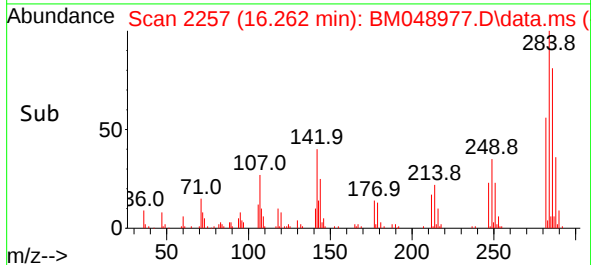
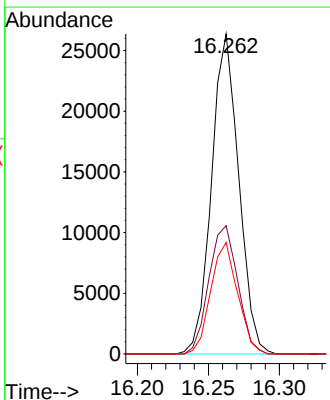
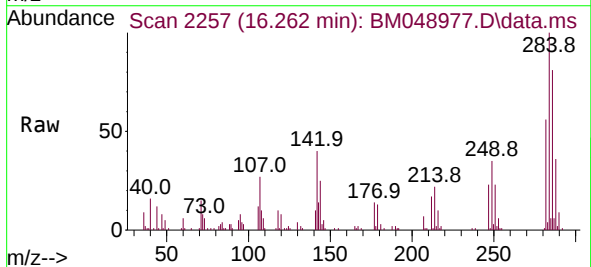
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ahmed

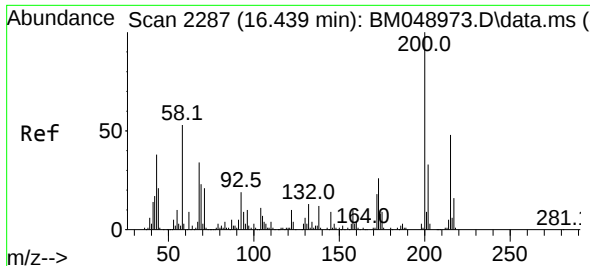
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#69  
Hexachlorobenzene  
Concen: 3.511 ng/ul  
RT: 16.262 min Scan# 2257  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

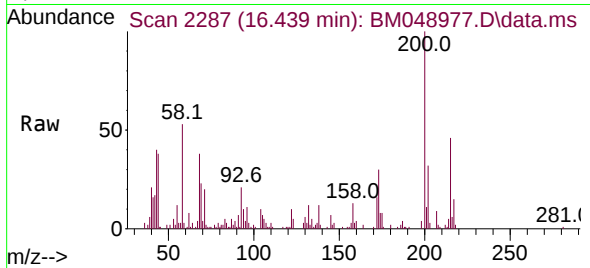
Tgt Ion:284 Resp: 35083  
Ion Ratio Lower Upper  
284 100  
142 40.1 32.0 48.0  
249 34.9 24.6 37.0





#70  
Atrazine  
Concen: 2.903 ng/ul  
RT: 16.439 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

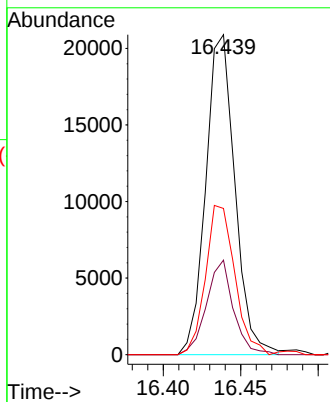
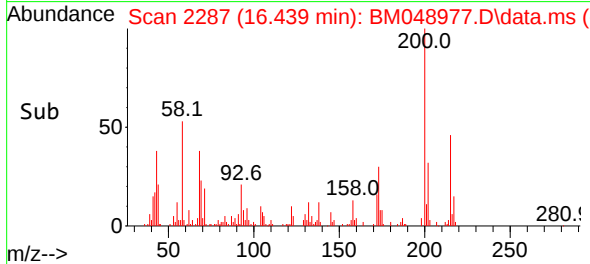
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:200 Resp: 27354  
Ion Ratio Lower Upper  
200 100  
173 29.5 20.7 31.1  
215 45.7 37.7 56.5

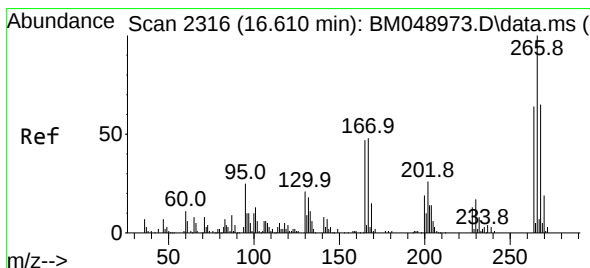
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Supervised By :mohammad ahmed 12/14/2024



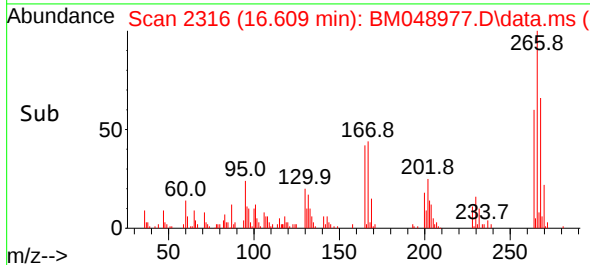
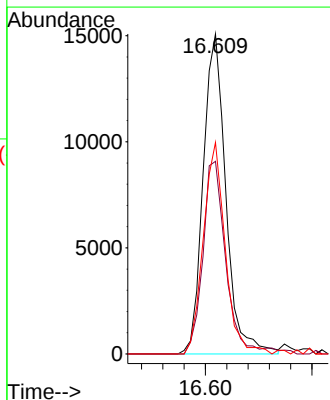
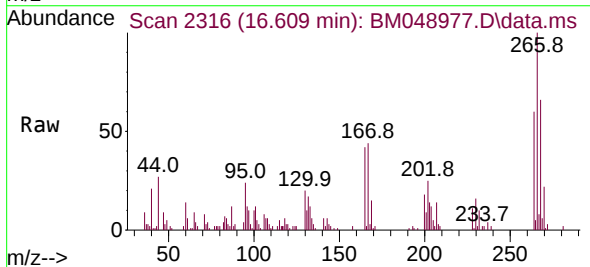
12/14/2024  
Supervised By :mohammad  
ahmed

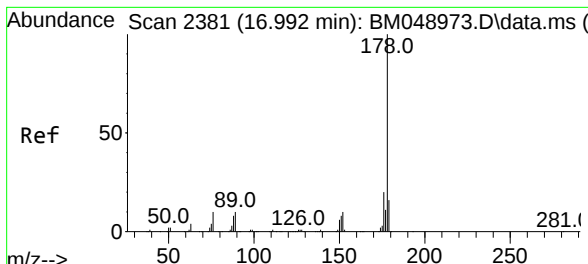
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#71  
Pentachlorophenol  
Concen: 3.611 ng/ul  
RT: 16.609 min Scan# 2316  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Tgt Ion:266 Resp: 22335  
Ion Ratio Lower Upper  
266 100  
264 60.2 48.4 72.6  
268 71.8 52.0 78.0





#72  
Phenanthrene  
Concen: 3.680 ng/u1  
RT: 16.992 min Scan# 2381  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

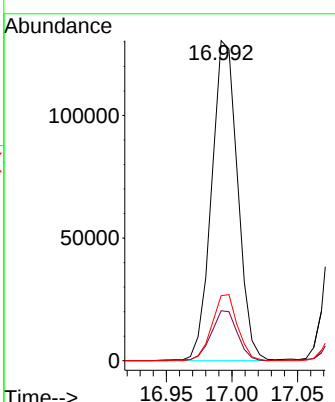
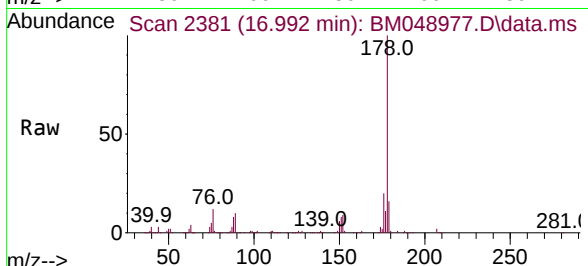
Instrument : BNA\_M  
ClientSampleId : MDL-SOIL-QT4-2024-08

Tgt Ion:178 Resp: 179580

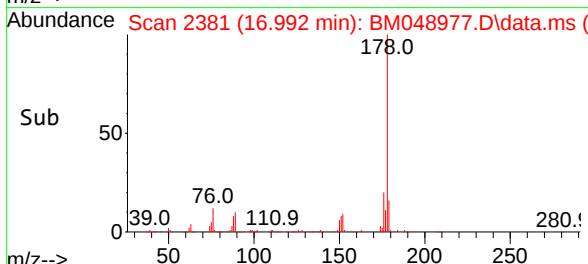
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.6  | 12.3  | 18.5  |
| 176 | 20.3  | 16.2  | 24.2  |

Manual Integrations  
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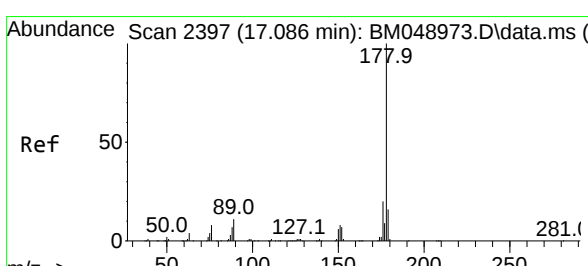
Reviewed By :Yogesh Patel 12/14/2024  
Supervised By :mohammad ahmed 12/14/2024



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Supervised By :mohammad ahmed



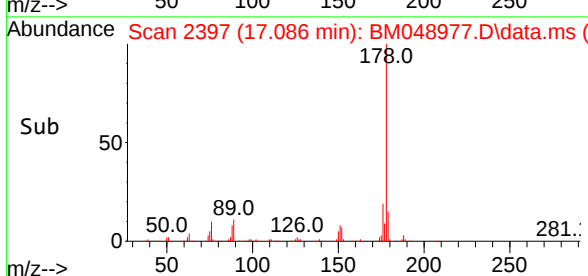
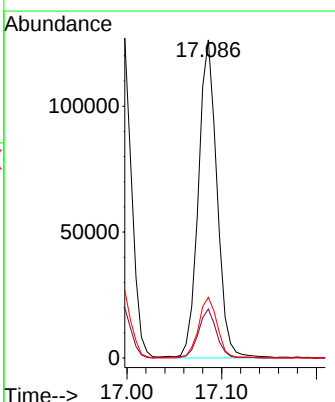
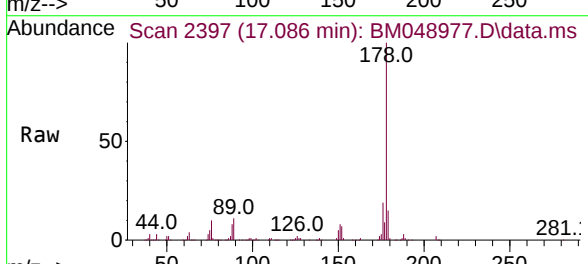
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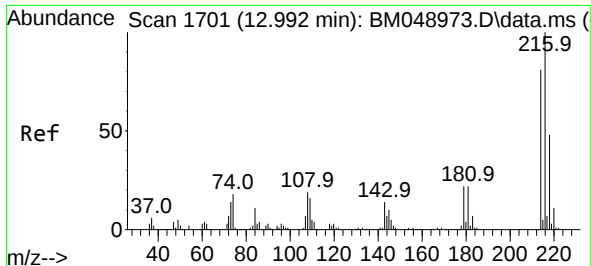


#74  
Anthracene  
Concen: 3.505 ng/u1  
RT: 17.086 min Scan# 2397  
Delta R.T. -0.000 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Tgt Ion:178 Resp: 172221

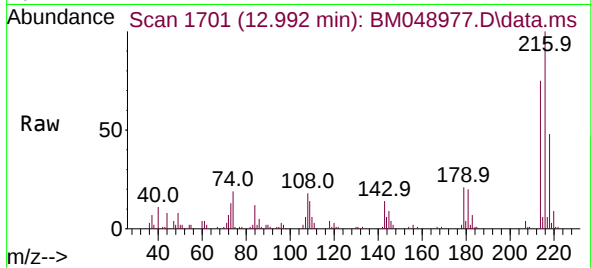
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.4  | 12.2  | 18.4  |
| 176 | 19.1  | 15.4  | 23.0  |





#75  
1,2,3,4-Tetrachlorobenzene  
Concen: 3.516 ng/uL  
RT: 12.992 min Scan# 1701  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

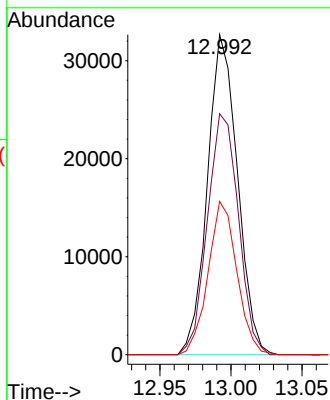
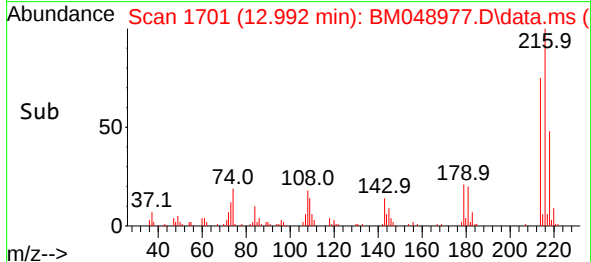
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:216 Resp: 48100  
Ion Ratio Lower Upper  
216 100  
214 75.3 63.7 95.5  
218 47.9 37.9 56.9

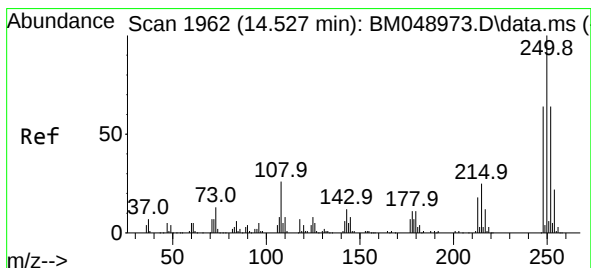
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/14/2024  
Supervised By :mohammad ahmed 12/14/2024

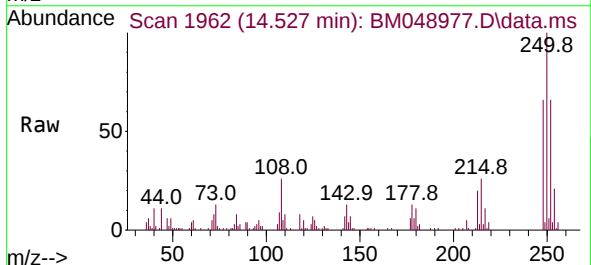


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Supervised By :mohammad  
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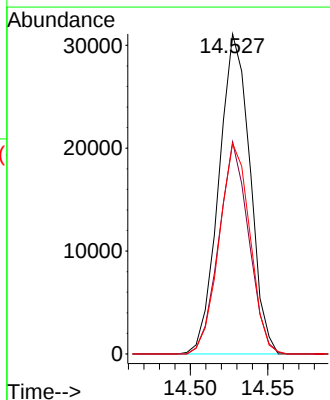
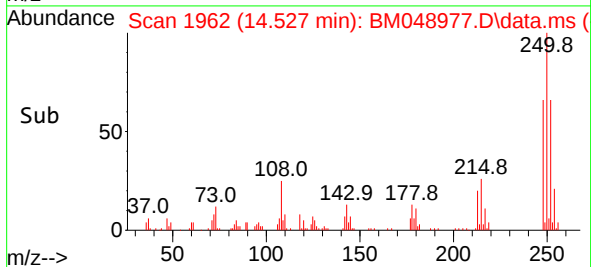
12/14/2024

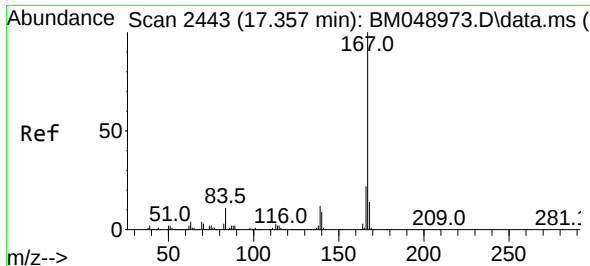


#76  
Pentachlorobenzene  
Concen: 3.267 ng/uL  
RT: 14.527 min Scan# 1962  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51



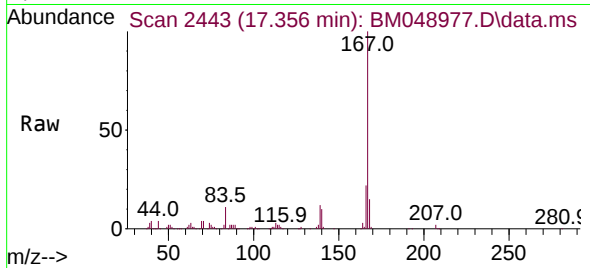
Tgt Ion:250 Resp: 43348  
Ion Ratio Lower Upper  
250 100  
248 66.3 49.0 73.4  
252 65.8 52.2 78.4





#77  
 Carbazole  
 Concen: 3.313 ng/ul  
 RT: 17.356 min Scan# 2443  
 Delta R.T. -0.006 min  
 Lab File: BM048977.D  
 Acq: 13 Dec 2024 11:51

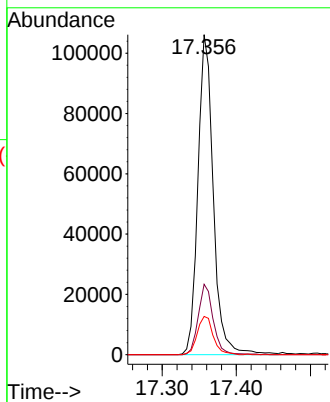
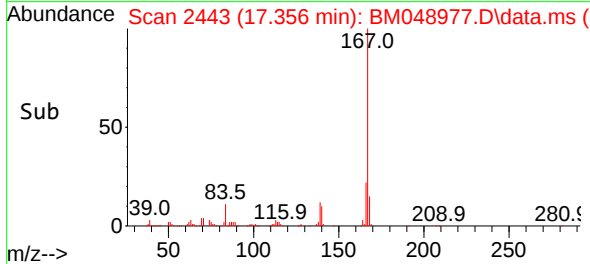
Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-QT4-2024-08



Tgt Ion:167 Resp: 15353  
 Ion Ratio Lower Upper  
 167 100  
 166 22.0 17.4 26.2  
 139 12.0 9.7 14.5

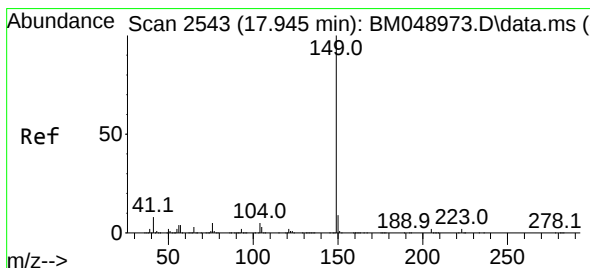
Manual Integrations  
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Reviewed By :Yogesh Patel 12/14/2024  
 Supervised By :mohammad ahmed 12/14/2024

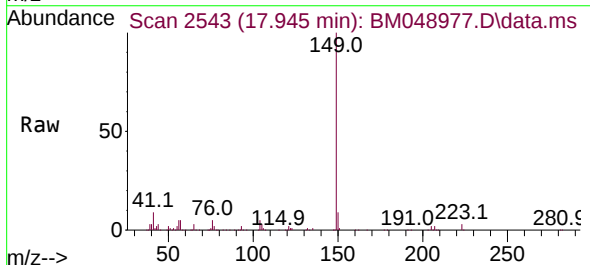


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 Supervised By :mohammad  
 ahmed

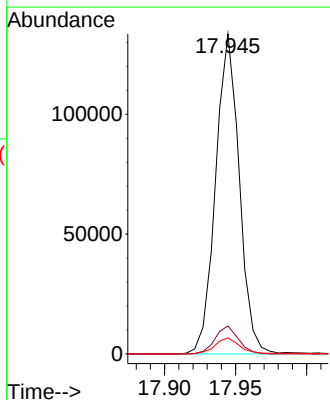
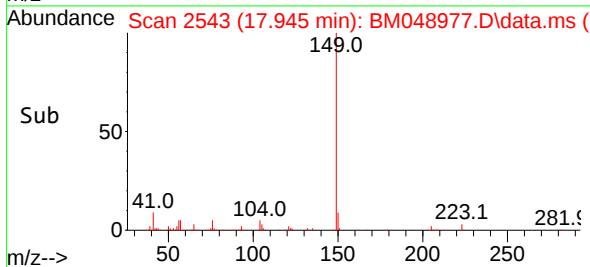
12/14/2024

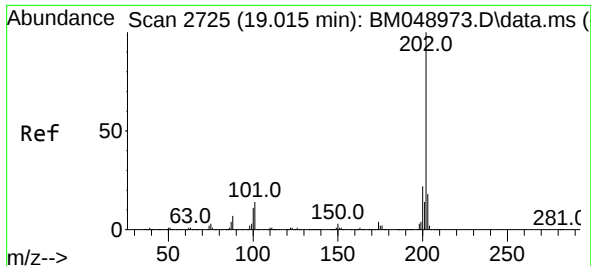


#78  
 Di-n-butylphthalate  
 Concen: 3.316 ng/ul  
 RT: 17.945 min Scan# 2543  
 Delta R.T. -0.006 min  
 Lab File: BM048977.D  
 Acq: 13 Dec 2024 11:51



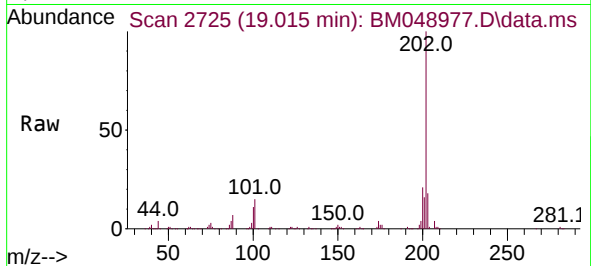
Tgt Ion:149 Resp: 154356  
 Ion Ratio Lower Upper  
 149 100  
 150 8.7 7.1 10.7  
 104 5.1 3.9 5.9





#80  
Fluoranthene  
Concen: 3.902 ng/u1  
RT: 19.015 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

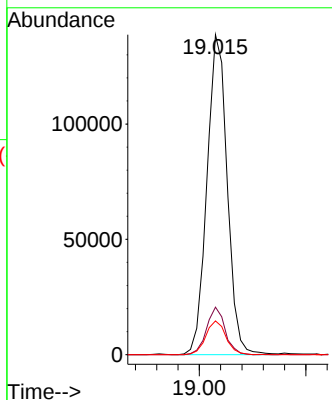
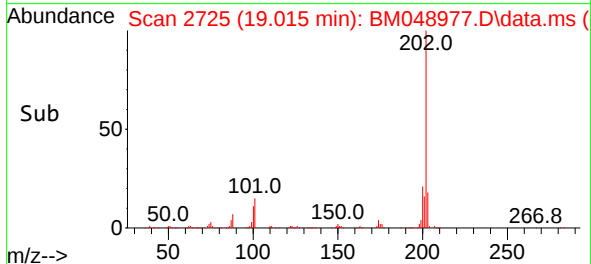
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:202 Resp: 18386  
Ion Ratio Lower Upper  
202 100  
101 14.9 10.2 15.4  
100 10.6 8.3 12.5

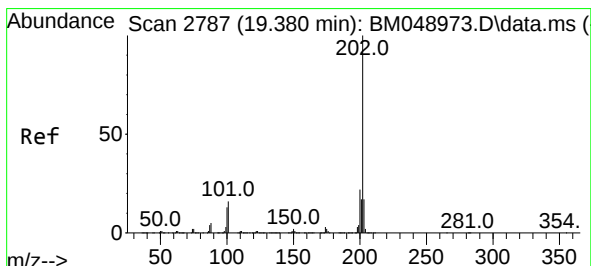
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Reviewed By :Yogesh Patel 12/14/2024  
Supervised By :mohammad ahmed 12/14/2024



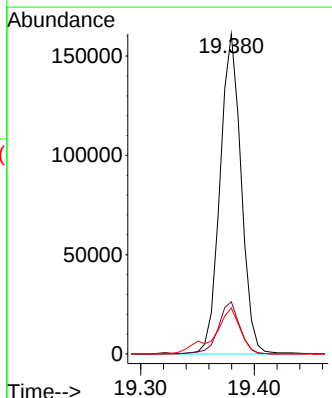
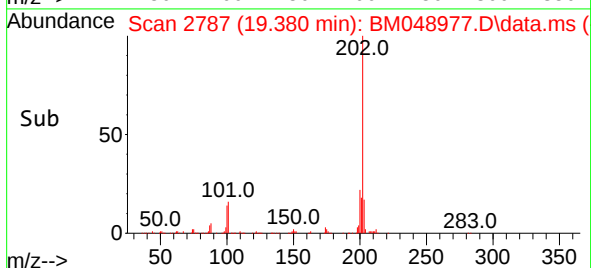
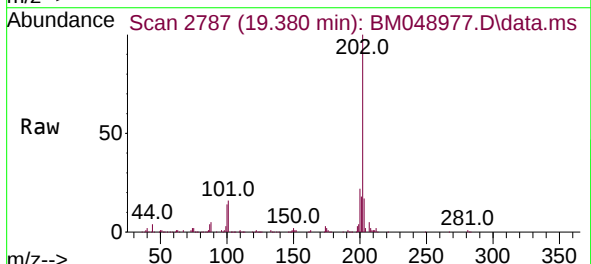
12/14/2024  
Supervised By :mohammad  
ahmed

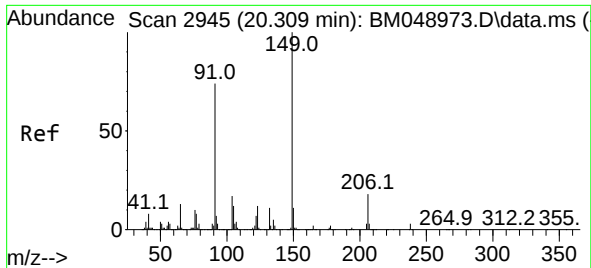
12/14/2024



#82  
Pyrene  
Concen: 4.009 ng/u1  
RT: 19.380 min Scan# 2787  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Tgt Ion:202 Resp: 208363  
Ion Ratio Lower Upper  
202 100  
101 16.3 11.7 17.5  
100 14.3 9.4 14.2#





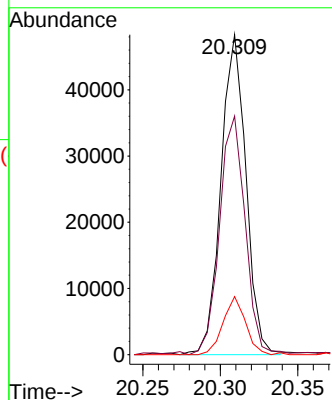
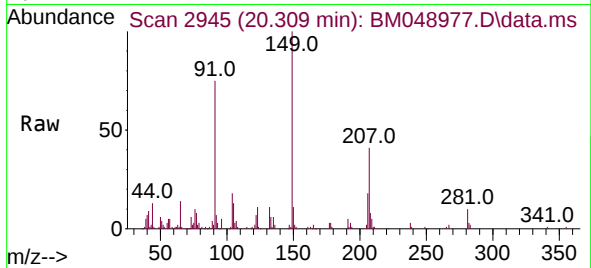
#83  
Butylbenzylphthalate  
Concen: 3.416 ng/ul  
RT: 20.309 min Scan# 2945  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 74.6  | 56.2  | 84.4  |
| 206     | 18.2  | 14.2  | 21.2  |

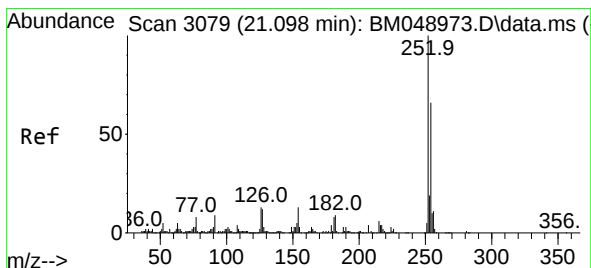
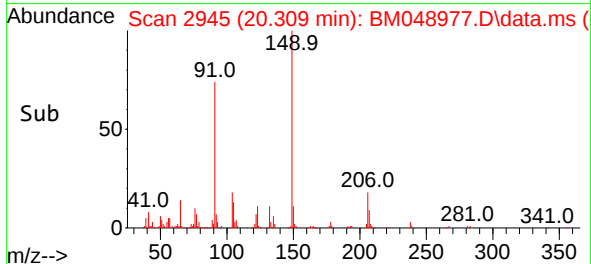
Manual Integrations  
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Supervised By :mohammad ahmed 12/14/2024



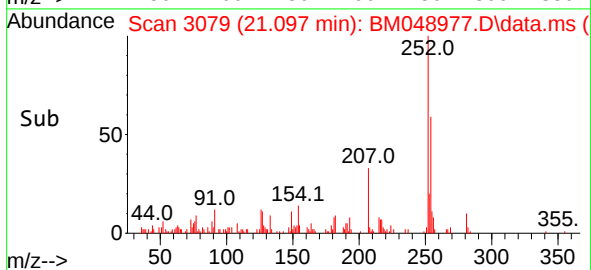
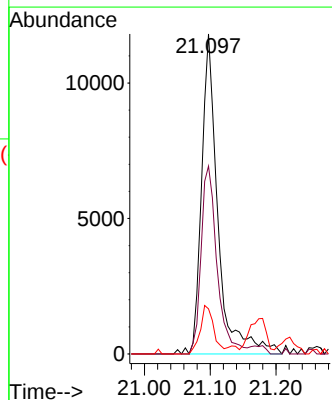
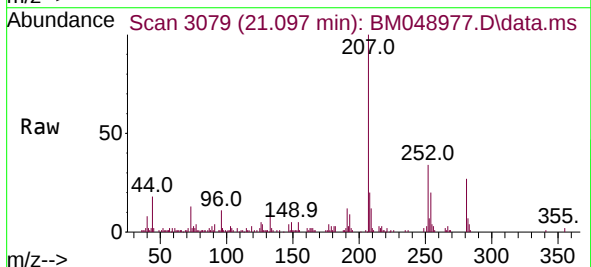
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ahmed

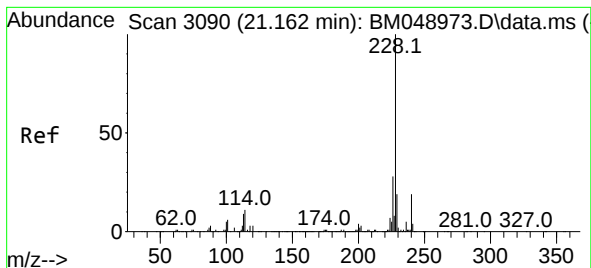
12/14/2024



#84  
3,3'-Dichlorobenzidine  
Concen: 1.645 ng/ul m  
RT: 21.097 min Scan# 3079  
Delta R.T. -0.006 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 58.7  | 51.9  | 77.9  |
| 126     | 14.1  | 9.4   | 14.2  |





#85

Benzo(a)anthracene

Concen: 3.949 ng/ul

RT: 21.162 min Scan# 3090

Delta R.T. -0.006 min

Lab File: BM048977.D

Acq: 13 Dec 2024 11:51

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-QT4-2024-08

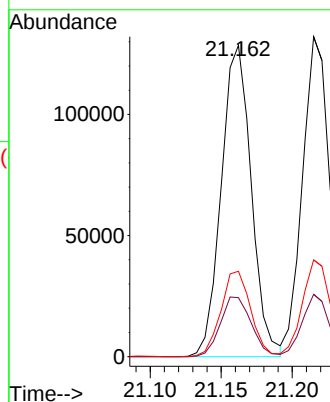
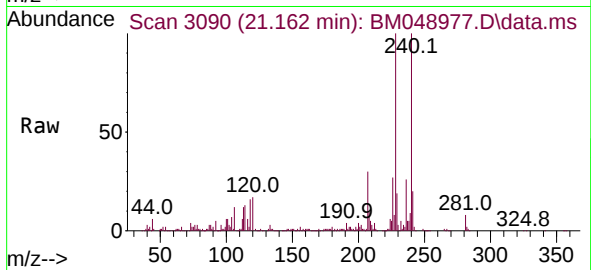
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 189029 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 19.0  | 15.7  | 23.5   |
| 226       | 27.4  | 22.0  | 33.0   |

Manual Integrations

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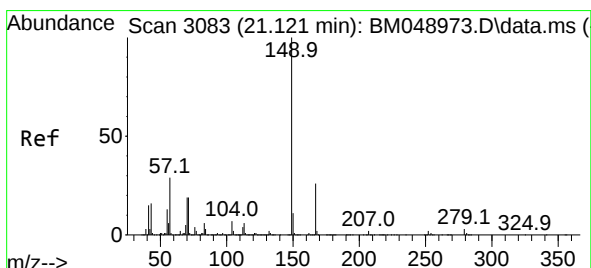
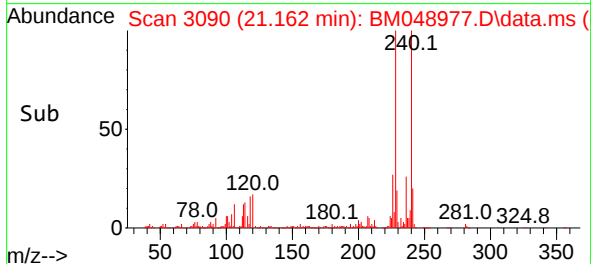
Reviewed By :Yogesh Patel 12/14/2024

Supervised By :mohammad ahmed 12/14/2024



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12/14/2024



#86

Bis(2-ethylhexyl)phthalate

Concen: 3.234 ng/ul

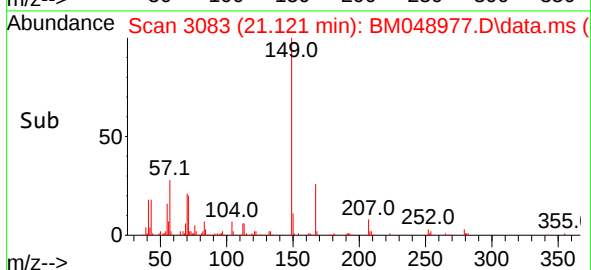
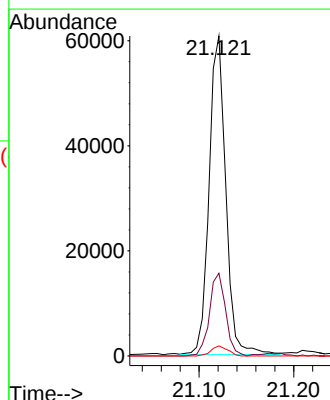
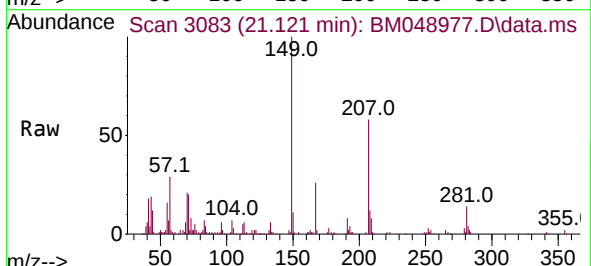
RT: 21.121 min Scan# 3083

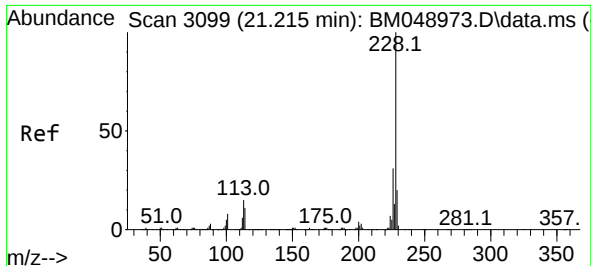
Delta R.T. -0.006 min

Lab File: BM048977.D

Acq: 13 Dec 2024 11:51

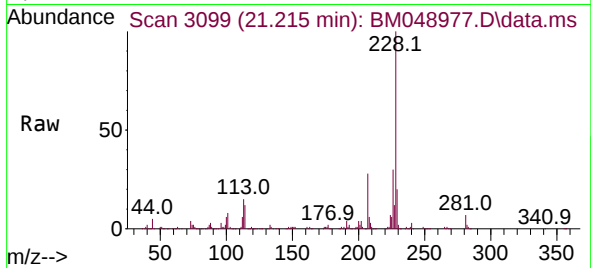
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 74117 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 25.9  | 20.6  | 31.0  |
| 279       | 3.2   | 2.5   | 3.7   |





#87  
Chrysene  
Concen: 3.943 ng/ul  
RT: 21.215 min Scan# 3099  
Delta R.T. -0.012 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

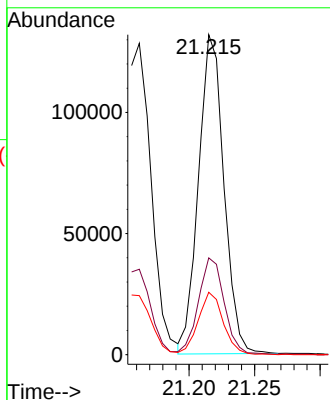
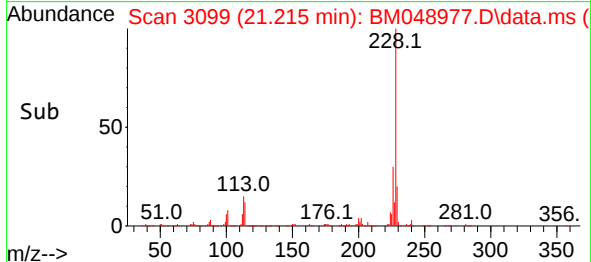
Instrument : BNA\_M  
ClientSampleId : MDL-SOIL-QT4-2024-08



Tgt Ion:228 Resp: 17766  
Ion Ratio Lower Upper  
228 100  
226 30.3 24.6 37.0  
229 19.5 15.4 23.0

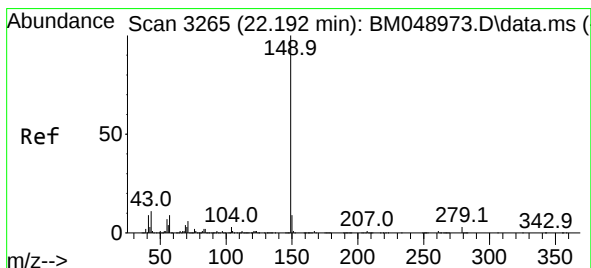
Manual Integrations  
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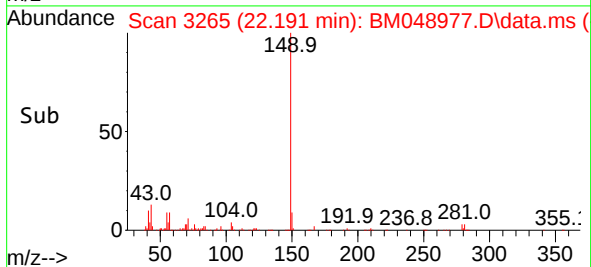
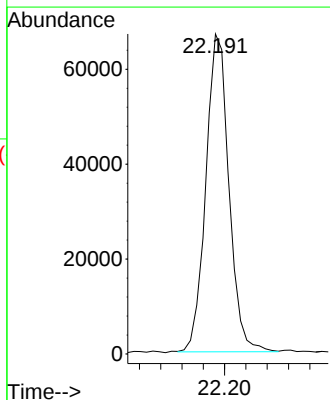
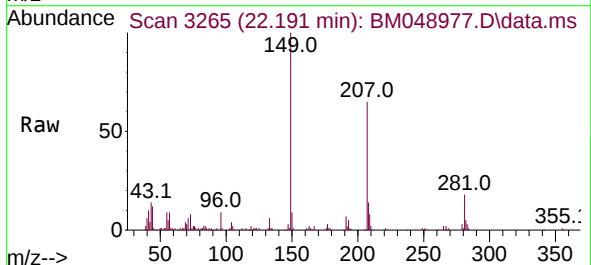
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Supervised By :mohammad  
ahmed

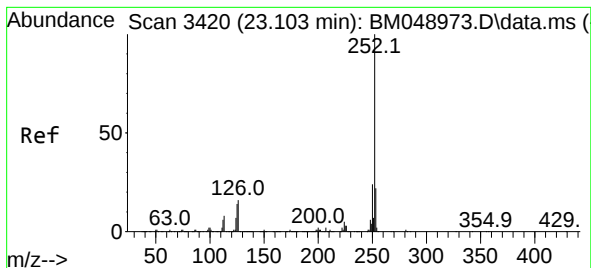
12/14/2024



#89  
Di-n-octyl phthalate  
Concen: 2.272 ng/ul  
RT: 22.191 min Scan# 3265  
Delta R.T. -0.012 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

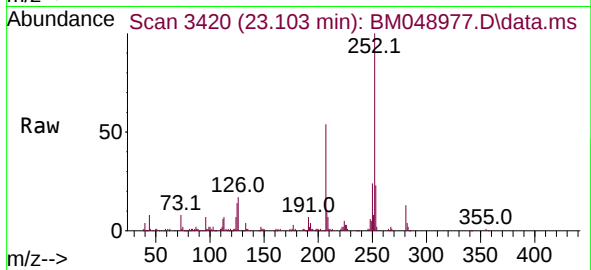
Tgt Ion:149 Resp: 100966





#90  
Benzo(b)fluoranthene  
Concen: 3.555 ng/ul  
RT: 23.103 min Scan# 3420  
Delta R.T. -0.012 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

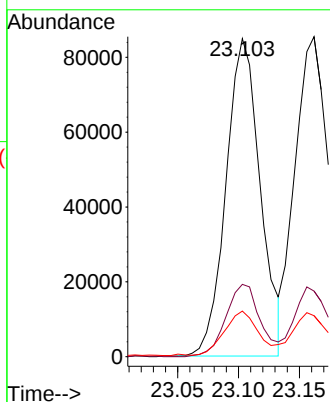
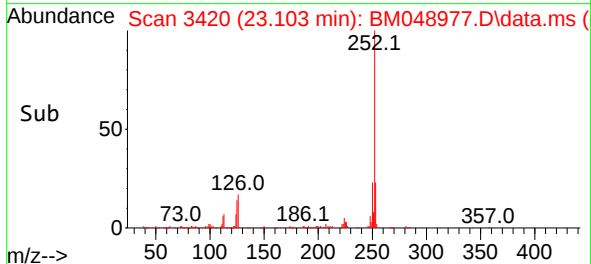
Instrument : BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion:252 Resp: 166095  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.3 25.9  
125 14.3 9.8 14.8

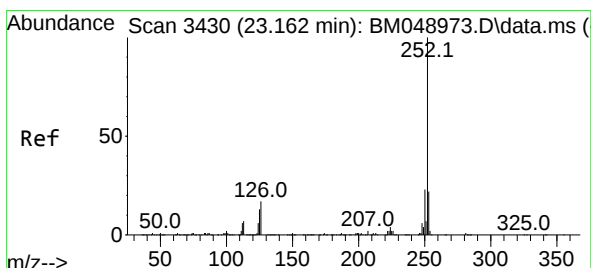
Manual Integrations  
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Supervised By :mohammad ahmed 12/14/2024



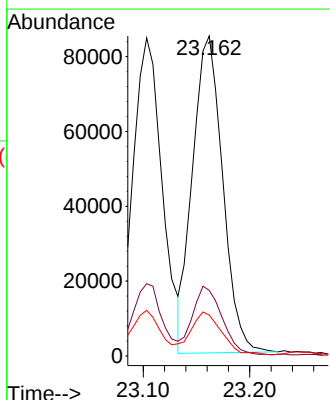
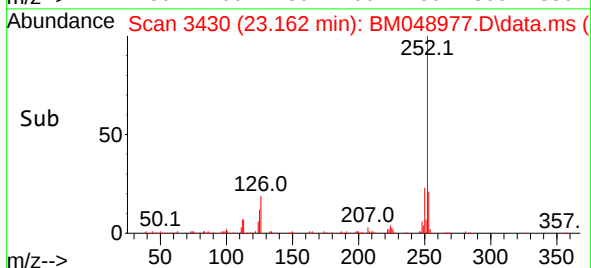
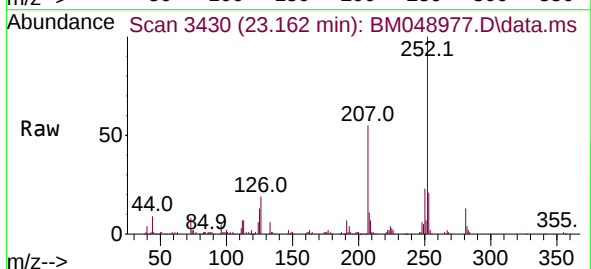
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Supervised By :mohammad  
ahmed

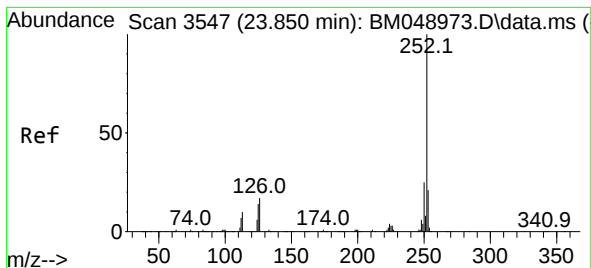
12/14/2024



#91  
Benzo(k)fluoranthene  
Concen: 3.563 ng/ul  
RT: 23.162 min Scan# 3430  
Delta R.T. -0.012 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

Tgt Ion:252 Resp: 166303  
Ion Ratio Lower Upper  
252 100  
253 20.5 17.2 25.8  
125 12.8 10.1 15.1





#93

Benzo(a)pyrene

Concen: 3.626 ng/ul

RT: 23.850 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM048977.D

Acq: 13 Dec 2024 11:51

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-QT4-2024-08

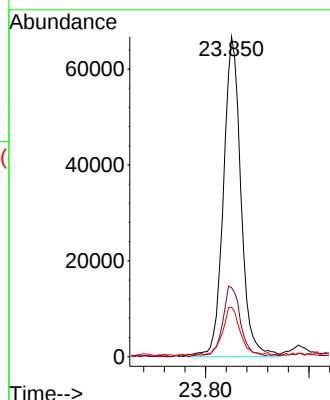
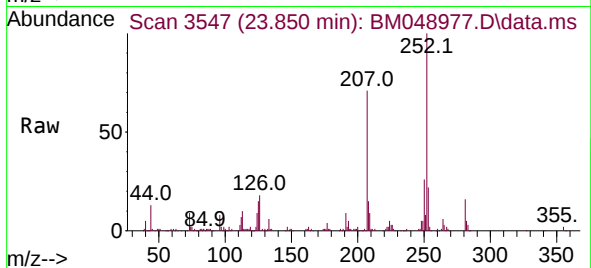
Tgt Ion:252 Resp: 157490  
 Ion Ratio Lower Upper  
 252 100  
 253 21.6 17.8 26.8  
 125 15.4 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 12/14/2024

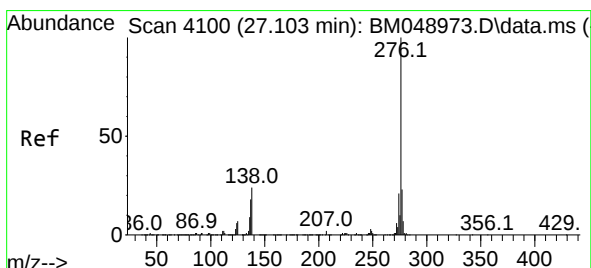
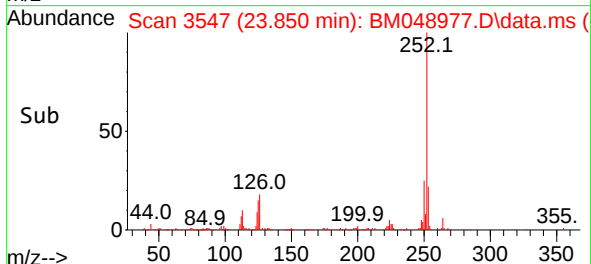
Supervised By :mohammad ahmed 12/14/2024



12/14/2024

Supervised By :mohammad  
ahmed

12/14/2024



#94

Indeno(1,2,3-cd)pyrene

Concen: 3.811 ng/ul

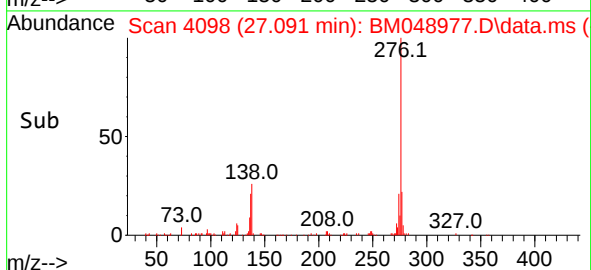
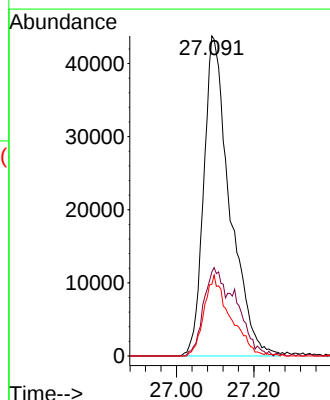
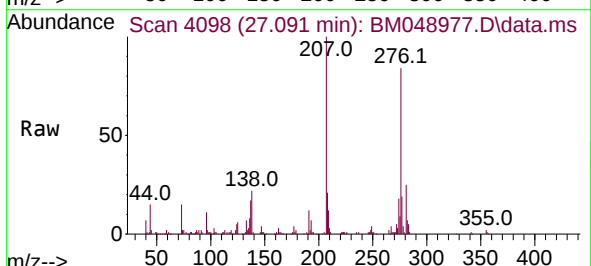
RT: 27.091 min Scan# 4098

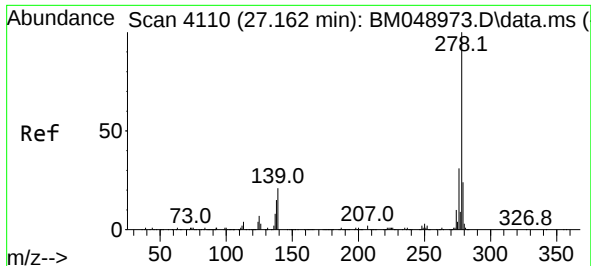
Delta R.T. -0.035 min

Lab File: BM048977.D

Acq: 13 Dec 2024 11:51

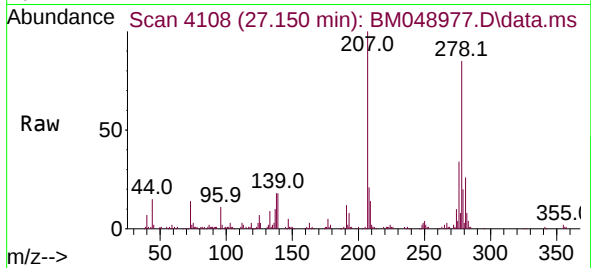
Tgt Ion:276 Resp: 204534  
 Ion Ratio Lower Upper  
 276 100  
 138 26.2 20.0 30.0  
 277 22.4 18.8 28.2





#95  
Dibenzo(a,h)anthracene  
Concen: 3.844 ng/ul m  
RT: 27.150 min Scan# 4110  
Delta R.T. -0.035 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51

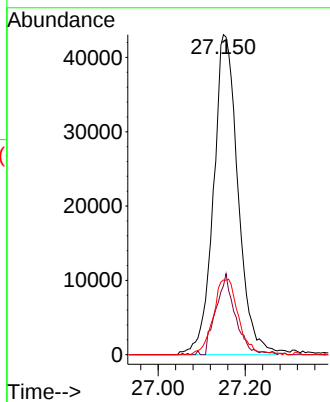
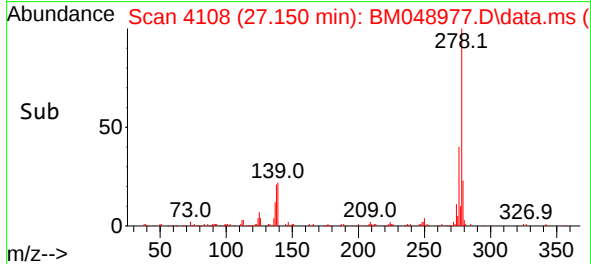
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-QT4-2024-08



Tgt Ion: 278 Resp: 16856  
Ion Ratio Lower Upper  
278 100  
139 21.6 15.2 22.8  
279 23.4 18.6 28.0

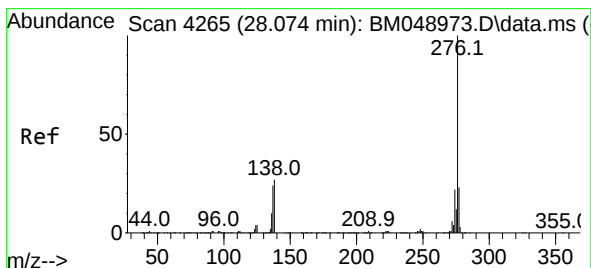
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 12/14/2024  
Supervised By :mohammad ahmed 12/14/2024

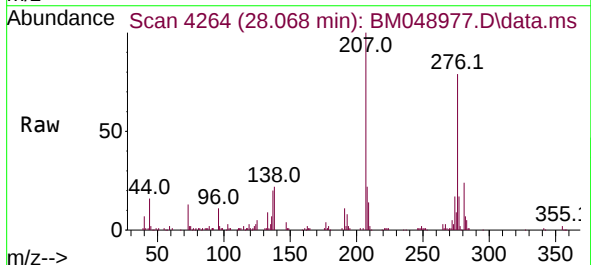


12/14/2024  
Supervised By :mohammad  
ahmed

12/14/2024



#96  
Benzo(g,h,i)perylene  
Concen: 4.075 ng/ul m  
RT: 28.068 min Scan# 4264  
Delta R.T. -0.018 min  
Lab File: BM048977.D  
Acq: 13 Dec 2024 11:51



Tgt Ion: 276 Resp: 167880  
Ion Ratio Lower Upper  
276 100  
138 28.3 22.2 33.2  
277 22.0 18.9 28.3

