

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120224\  
 Data File : BF140697.D  
 Acq On : 02 Dec 2024 18:57  
 Operator : RC/JU  
 Sample : P5026-05MS  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-1-HAMMS

Manual Integrations  
 APPROVED

Reviewed By :Jagrut  
 Upadhyay

Quant Time: Dec 03 00:05:05 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112124.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 21 15:23:48 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.869  | 152  | 86982    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.151  | 136  | 326220   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.910  | 164  | 185319   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.398 | 188  | 361245   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.051 | 240  | 215378   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.539 | 264  | 179173   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.510  | 112  | 404761   | 79.397  | ng    | 0.01     |
| 7) Phenol-d6                  | 6.510  | 99   | 520507   | 77.231  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.434  | 82   | 326875   | 51.253  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.704 | 330  | 156373   | 78.897  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.222  | 172  | 617867   | 49.676  | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.980 | 244  | 651465   | 47.099  | ng    | -0.01    |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.716  | 88   | 97314    | 45.401  | ng    | 96       |
| 3) Pyridine                   | 3.481  | 79   | 232285   | 49.254  | ng    | 99       |
| 4) n-Nitrosodimethylamine     | 3.434  | 42   | 125835   | 45.399  | ng    | 93       |
| 6) Aniline                    | 6.534  | 93   | 202004   | 42.583  | ng    | 93       |
| 8) 2-Chlorophenol             | 6.663  | 128  | 261231   | 47.630  | ng    | 95       |
| 9) Benzaldehyde               | 6.422  | 77   | 92190    | 25.839  | ng    | 99       |
| 10) Phenol                    | 6.528  | 94   | 335261   | 48.710  | ng    | 97       |
| 11) bis(2-Chloroethyl)ether   | 6.604  | 93   | 241087   | 45.774  | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 6.810  | 146  | 270476   | 43.889  | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.886  | 146  | 277935   | 44.540  | ng    | 100      |
| 14) 1,2-Dichlorobenzene       | 7.039  | 146  | 266699   | 45.612  | ng    | 99       |
| 15) Benzyl Alcohol            | 7.016  | 79   | 238550   | 47.728  | ng    | 98       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.139  | 45   | 295947   | 47.562  | ng    | 90       |
| 17) 2-Methylphenol            | 7.128  | 107  | 206380   | 47.007  | ng    | 97       |
| 18) Hexachloroethane          | 7.381  | 117  | 101781   | 43.672  | ng    | 99       |
| 19) n-Nitroso-di-n-propyla... | 7.281  | 70   | 183718   | 46.124  | ng    | 96       |
| 20) 3+4-Methylphenols         | 7.286  | 107  | 270560   | 47.945  | ng    | # 88     |
| 22) Acetophenone              | 7.281  | 105  | 356828   | 44.867  | ng    | 98       |
| 24) Nitrobenzene              | 7.451  | 77   | 282479   | 42.855  | ng    | 98       |
| 25) Isophorone                | 7.692  | 82   | 495522   | 46.583  | ng    | 99       |
| 26) 2-Nitrophenol             | 7.769  | 139  | 138912   | 47.555  | ng    | 96       |
| 27) 2,4-Dimethylphenol        | 7.804  | 122  | 206467m  | 59.075  | ng    |          |
| 28) bis(2-Chloroethoxy)met... | 7.898  | 93   | 298103   | 46.001  | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 8.016  | 162  | 223268   | 48.210  | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 8.092  | 180  | 227995   | 43.118  | ng    | 99       |
| 31) Naphthalene               | 8.175  | 128  | 752162   | 44.763  | ng    | 99       |
| 32) Benzoic acid              | 7.945  | 122  | 110420   | 38.058  | ng    | 98       |
| 33) 4-Chloroaniline           | 8.228  | 127  | 88445    | 17.580  | ng    | 98       |
| 34) Hexachlorobutadiene       | 8.286  | 225  | 147954   | 42.244  | ng    | 99       |
| 35) Caprolactam               | 8.598  | 113  | 70253m   | 49.019  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 8.716  | 107  | 249424   | 48.104  | ng    | 100      |
| 37) 2-Methylnaphthalene       | 8.863  | 142  | 496414   | 46.513  | ng    | 100      |
| 38) 1-Methylnaphthalene       | 8.963  | 142  | 461372   | 44.102  | ng    | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 9.028  | 216  | 241508   | 44.516  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.016  | 237  | 193001   | 151.133 | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.145  | 196  | 154115   | 45.271  | ng    | 100      |

12/03/2024  
 Supervised By :mohammad  
 Ahmed

12/05/2024

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 Sample : P5026-05MS  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-1-HAMMS

Manual Integrations  
 APPROVED

Reviewed By :Jagrut  
 Upadhyay

Quant Time: Dec 03 00:05:05 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112124.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 21 15:23:48 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.192  | 196  | 168210   | 45.529 | ng    | 97       |
| 46) 1,1'-Biphenyl             | 9.328  | 154  | 631770   | 45.661 | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.351  | 162  | 472794   | 45.097 | ng    | 99       |
| 48) 2-Nitroaniline            | 9.457  | 65   | 158460   | 47.089 | ng    | 97       |
| 49) Acenaphthylene            | 9.769  | 152  | 778803   | 49.165 | ng    | 100      |
| 50) Dimethylphthalate         | 9.627  | 163  | 570326   | 46.729 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.698  | 165  | 124988   | 45.154 | ng    | 94       |
| 52) Acenaphthene              | 9.945  | 154  | 468552   | 46.553 | ng    | 98       |
| 53) 3-Nitroaniline            | 9.869  | 138  | 76391    | 28.217 | ng    | 96       |
| 54) 2,4-Dinitrophenol         | 9.986  | 184  | 129635   | 89.408 | ng    | 92       |
| 55) Dibenzofuran              | 10.116 | 168  | 708430   | 46.145 | ng    | 99       |
| 56) 4-Nitrophenol             | 10.045 | 139  | 158869   | 86.045 | ng    | 95       |
| 57) 2,4-Dinitrotoluene        | 10.104 | 165  | 172063   | 46.771 | ng    | 98       |
| 58) Fluorene                  | 10.457 | 166  | 575880   | 46.733 | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.239 | 232  | 145636   | 51.290 | ng    | 92       |
| 60) Diethylphthalate          | 10.327 | 149  | 575157   | 46.382 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.445 | 204  | 278573   | 46.064 | ng    | 99       |
| 62) 4-Nitroaniline            | 10.486 | 138  | 133321   | 46.954 | ng    | 96       |
| 63) Azobenzene                | 10.610 | 77   | 595388   | 50.701 | ng    | 96       |
| 65) 4,6-Dinitro-2-methylph... | 10.516 | 198  | 95467    | 51.716 | ng    | 98       |
| 66) n-Nitrosodiphenylamine    | 10.569 | 169  | 494813   | 46.318 | ng    | 100      |
| 67) 4-Bromophenyl-phenylether | 10.939 | 248  | 168456   | 45.281 | ng    | 96       |
| 68) Hexachlorobenzene         | 11.010 | 284  | 190245   | 44.164 | ng    | 99       |
| 69) Atrazine                  | 11.098 | 200  | 166080   | 55.262 | ng    | 100      |
| 70) Pentachlorophenol         | 11.210 | 266  | 162158   | 85.530 | ng    | 98       |
| 71) Phenanthrene              | 11.427 | 178  | 822711   | 47.378 | ng    | 99       |
| 72) Anthracene                | 11.474 | 178  | 842789   | 49.617 | ng    | 100      |
| 73) Carbazole                 | 11.633 | 167  | 780430   | 47.760 | ng    | 100      |
| 74) Di-n-butylphthalate       | 11.951 | 149  | 905796   | 48.014 | ng    | 100      |
| 75) Fluoranthene              | 12.616 | 202  | 905950   | 48.052 | ng    | 99       |
| 77) Benzidine                 | 12.739 | 184  | 210111   | 33.553 | ng    | 99       |
| 78) Pyrene                    | 12.845 | 202  | 924020   | 46.400 | ng    | 100      |
| 80) Butylbenzylphthalate      | 13.457 | 149  | 350493   | 48.856 | ng    | 99       |
| 81) Benzo(a)anthracene        | 14.039 | 228  | 690465   | 48.429 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 13.998 | 252  | 113614   | 26.542 | ng    | 100      |
| 83) Chrysene                  | 14.074 | 228  | 623612   | 47.836 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 14.010 | 149  | 455784   | 50.315 | ng    | 100      |
| 85) Di-n-octyl phthalate      | 14.633 | 149  | 641952   | 51.855 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.056 | 276  | 561222   | 48.064 | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.104 | 252  | 563925   | 50.108 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.133 | 252  | 447597   | 45.449 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.480 | 252  | 474294   | 51.833 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 17.068 | 278  | 457088   | 47.799 | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.509 | 276  | 428277   | 43.889 | ng    | 98       |

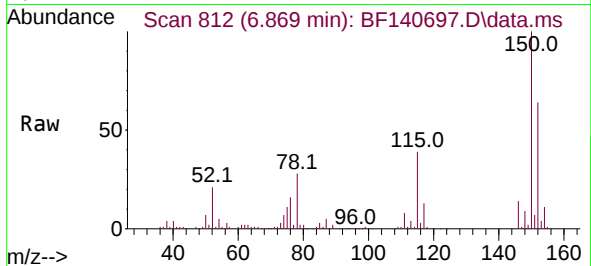
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.869 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

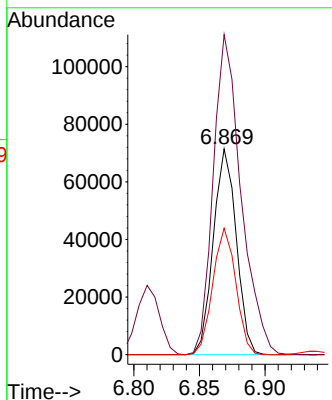
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:152 Resp: 8698  
Ion Ratio Lower Upper  
152 100  
150 155.5 128.5 192.7  
115 61.4 50.2 75.4

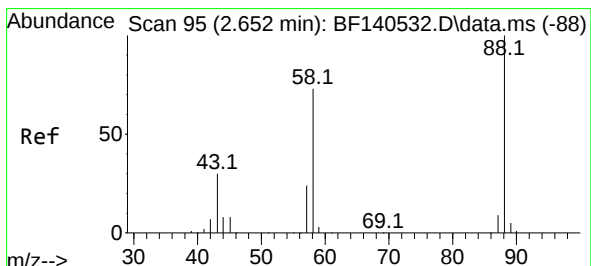
Manual Integrations  
APPROVED

Reviewed By :Jagrut  
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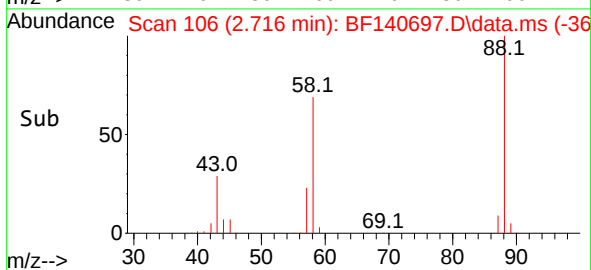
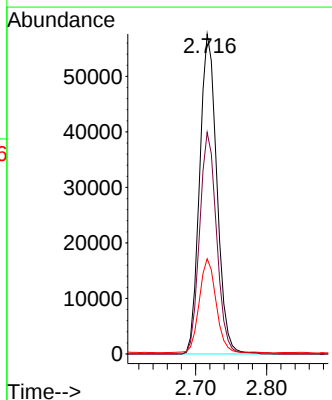
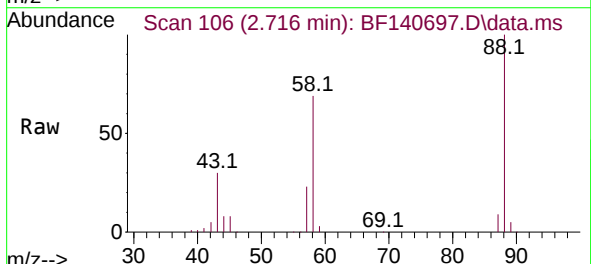
12/03/2024  
Supervised By :mohammad  
ahmed

12/05/2024



#2  
1,4-Dioxane  
Concen: 45.401 ng  
RT: 2.716 min Scan# 106  
Delta R.T. 0.065 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion: 88 Resp: 97314  
Ion Ratio Lower Upper  
88 100  
58 68.4 57.4 86.2  
43 28.4 24.3 36.5





#3

Pyridine

Concen: 49.254 ng

RT: 3.481 min Scan# 21

Delta R.T. 0.059 min

Lab File: BF140697.D

Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

ClientSampleId :

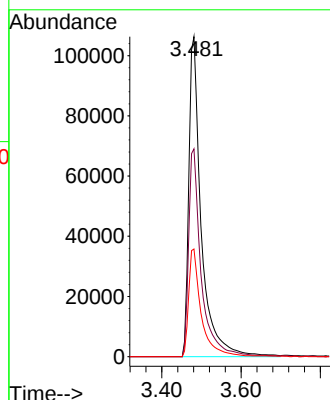
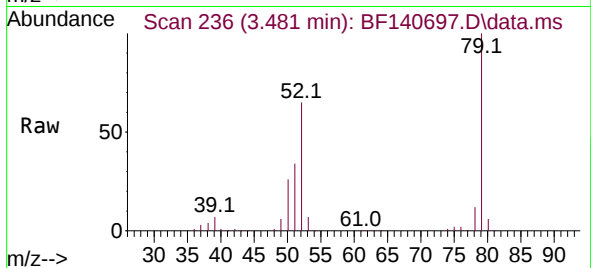
SOIL-1-HAMMS

Tgt Ion: 79 Resp: 23228

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 79  | 100   |       |       |
| 52  | 64.9  | 52.1  | 78.1  |
| 51  | 33.7  | 27.8  | 41.8  |

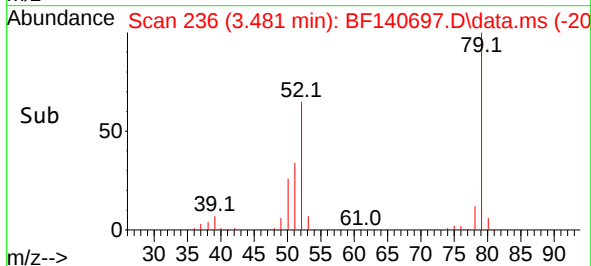
Manual Integrations  
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ahmed

12/05/2024



#4

n-Nitrosodimethylamine

Concen: 45.399 ng

RT: 3.434 min Scan# 228

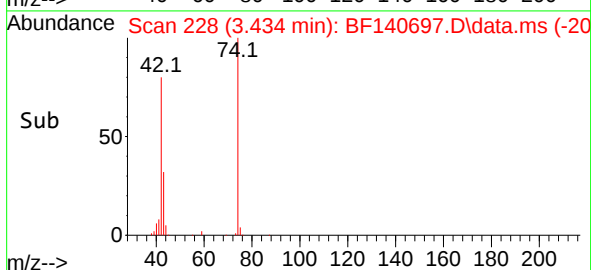
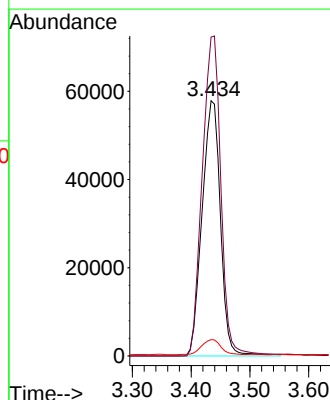
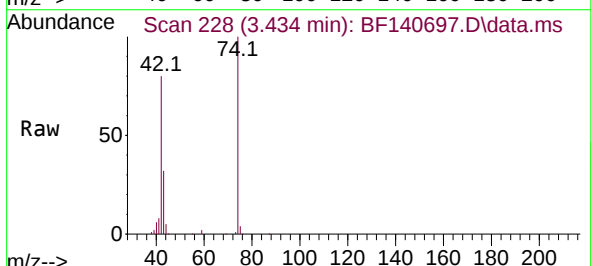
Delta R.T. 0.053 min

Lab File: BF140697.D

Acq: 02 Dec 2024 18:57

Tgt Ion: 42 Resp: 125835

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 74  | 124.9 | 93.8  | 140.6 |
| 44  | 6.4   | 4.6   | 6.8   |





#5  
2-Fluorophenol  
Concen: 79.397 ng  
RT: 5.510 min Scan# 581  
Delta R.T. 0.012 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

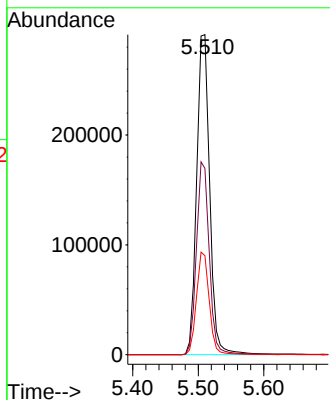
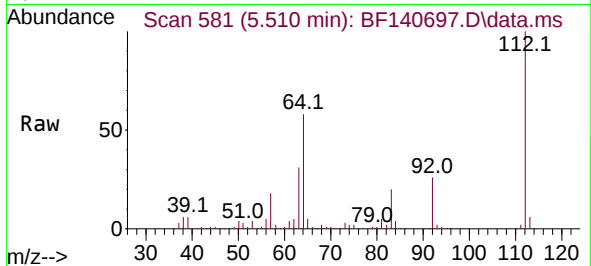
ClientSampleId :

SOIL-1-HAMMS

Tgt Ion:112 Resp: 40476  
Ion Ratio Lower Upper  
112 100  
64 58.2 49.2 73.8  
63 30.9 27.0 40.4

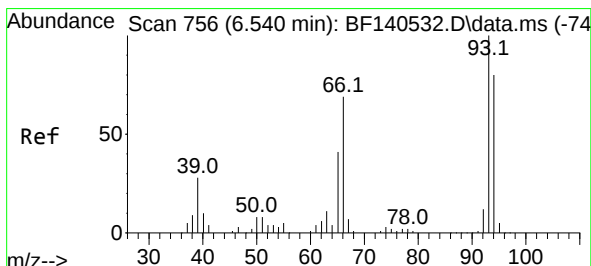
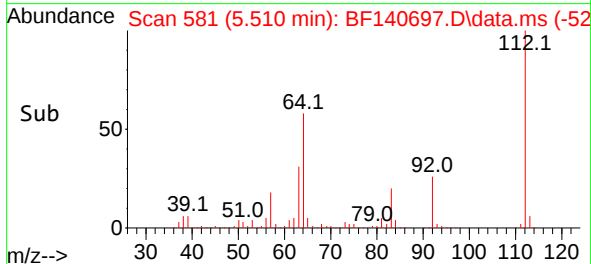
Manual Integrations  
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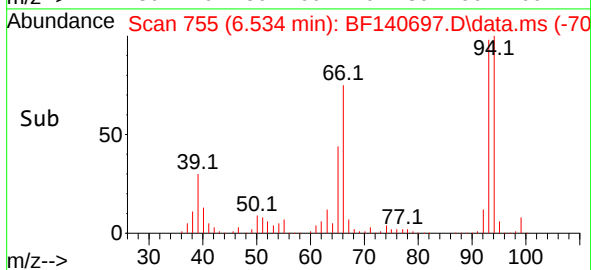
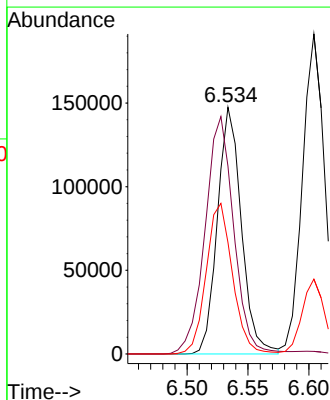
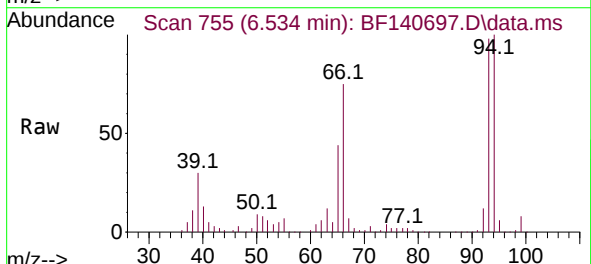
12/03/2024  
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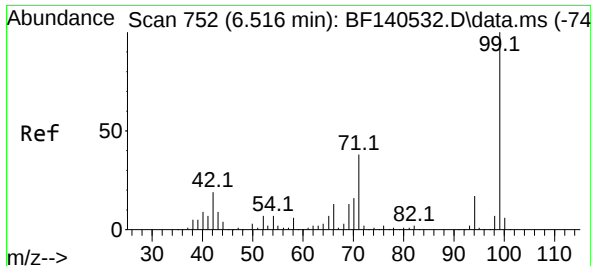
12/05/2024



#6  
Aniline  
Concen: 42.583 ng  
RT: 6.534 min Scan# 755  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion: 93 Resp: 202004  
Ion Ratio Lower Upper  
93 100  
66 76.1 56.5 84.7  
65 45.2 32.9 49.3





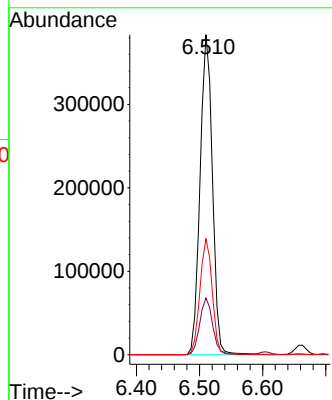
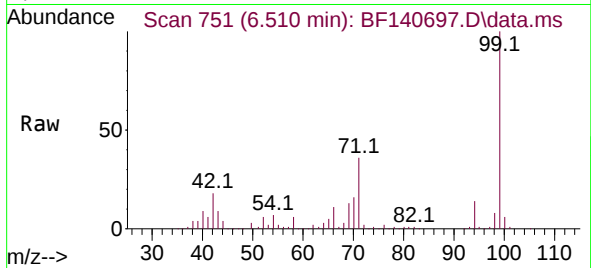
#7  
Phenol-d6  
Concen: 77.231 ng  
RT: 6.510 min Scan# 752  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS

Tgt Ion: 99 Resp: 52050  
Ion Ratio Lower Upper  
99 100  
42 17.7 15.4 23.0  
71 36.2 30.6 46.0

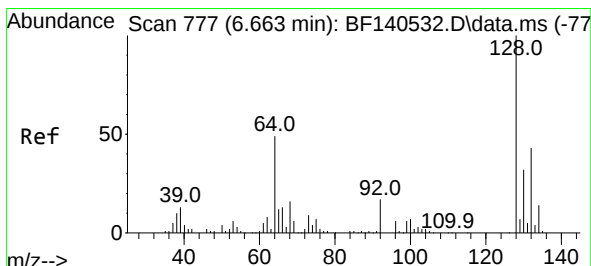
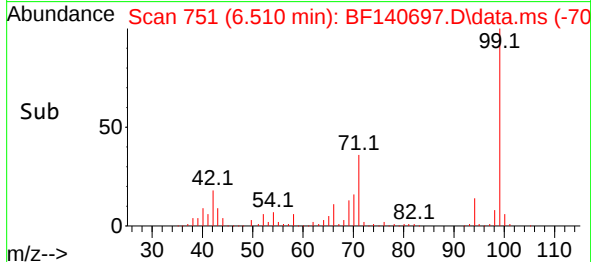
Manual Integrations  
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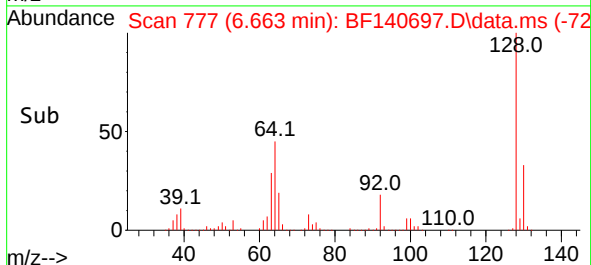
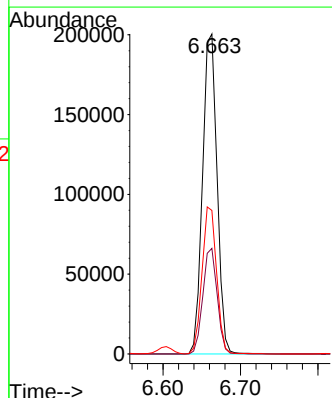
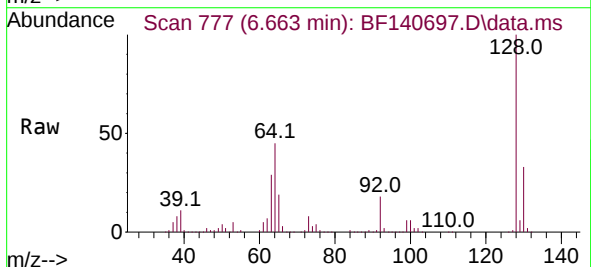
12/03/2024  
Supervised By :mohammad  
ahmed

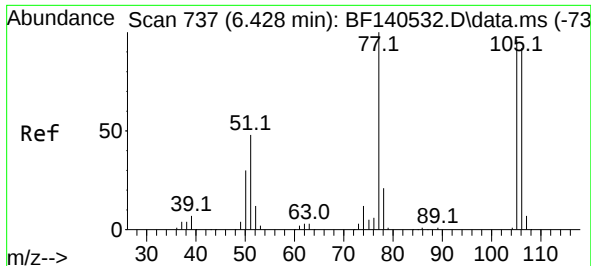
12/05/2024



#8  
2-Chlorophenol  
Concen: 47.630 ng  
RT: 6.663 min Scan# 777  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion:128 Resp: 261231  
Ion Ratio Lower Upper  
128 100  
130 33.0 12.3 52.3  
64 44.9 30.2 70.2





#9

Benzaldehyde

Concen: 25.839 ng

RT: 6.422 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF140697.D

Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

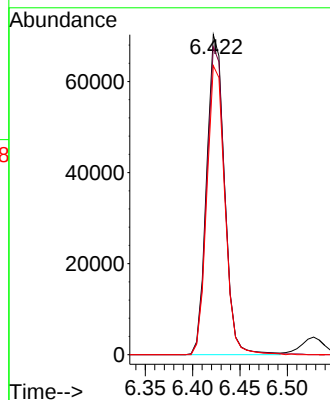
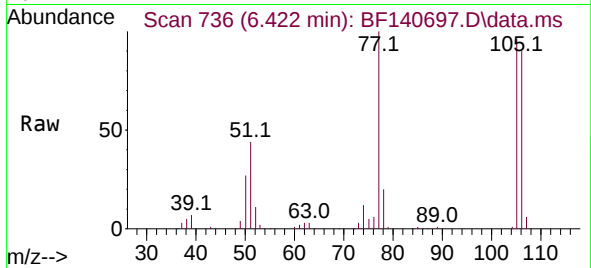
ClientSampleId :

SOIL-1-HAMMS

|             |             |
|-------------|-------------|
| Tgt Ion: 77 | Resp: 92190 |
| Ion Ratio   | Lower Upper |
| 77 100      |             |
| 105 96.2    | 75.6 115.6  |
| 106 90.3    | 72.0 112.0  |

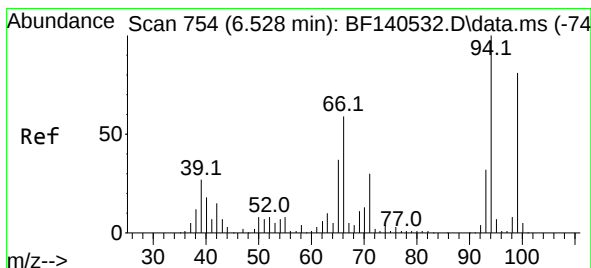
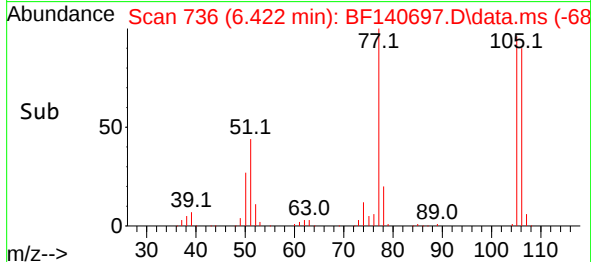
Manual Integrations  
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#10

Phenol

Concen: 48.710 ng

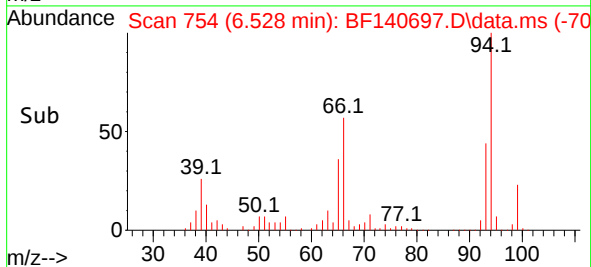
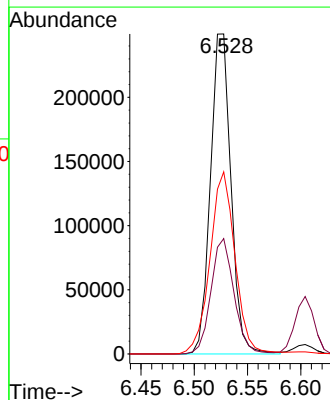
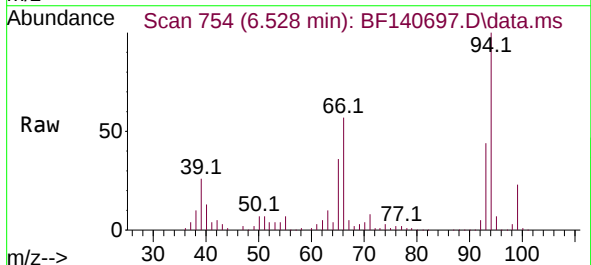
RT: 6.528 min Scan# 754

Delta R.T. -0.000 min

Lab File: BF140697.D

Acq: 02 Dec 2024 18:57

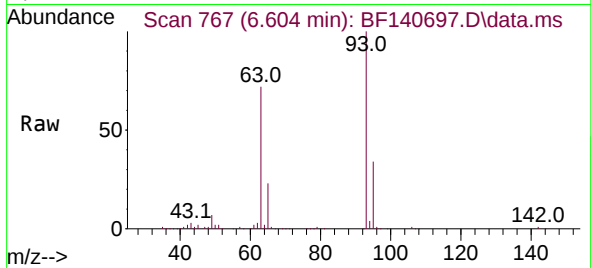
|             |              |
|-------------|--------------|
| Tgt Ion: 94 | Resp: 335261 |
| Ion Ratio   | Lower Upper  |
| 94 100      |              |
| 65 36.1     | 17.2 57.2    |
| 66 56.9     | 39.2 79.2    |





#11  
bis(2-Chloroethyl)ether  
Concen: 45.774 ng  
RT: 6.604 min Scan# 768  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

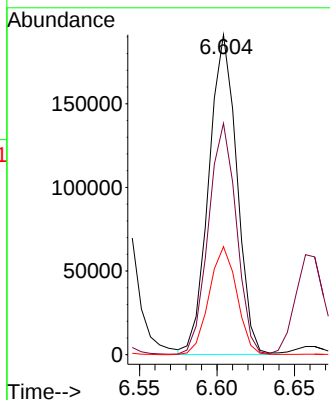
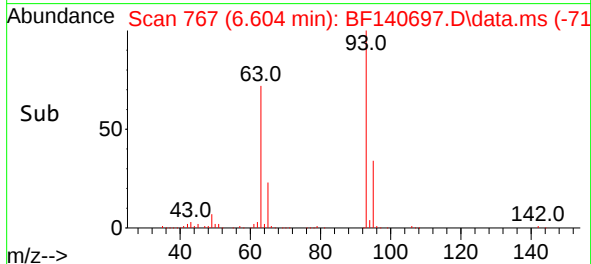
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion: 93 Resp: 24108  
Ion Ratio Lower Upper  
93 100  
63 72.3 52.8 92.8  
95 33.8 12.3 52.3

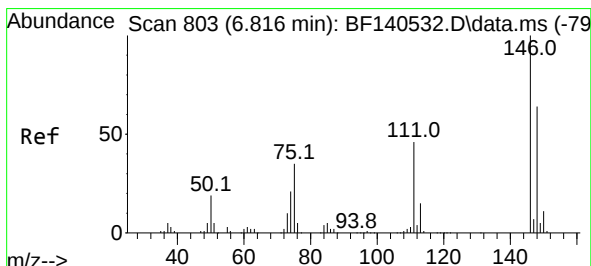
Manual Integrations  
APPROVED

Reviewed By :Jagrut  
Upadhyay

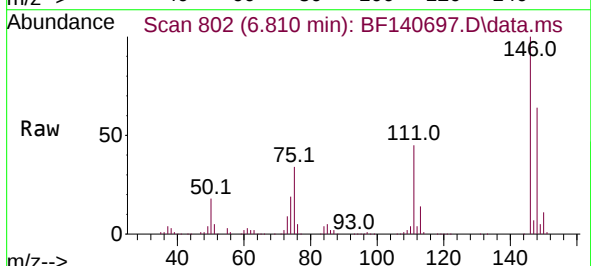


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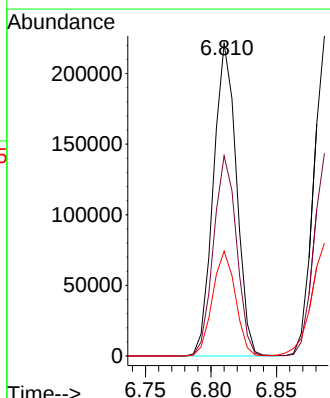
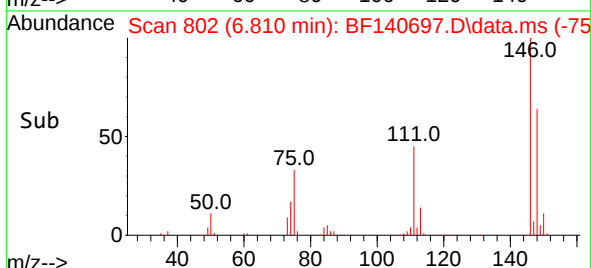
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#12  
1,3-Dichlorobenzene  
Concen: 43.889 ng  
RT: 6.810 min Scan# 802  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57



Tgt Ion:146 Resp: 270476  
Ion Ratio Lower Upper  
146 100  
148 64.1 51.3 76.9  
75 33.5 28.2 42.2





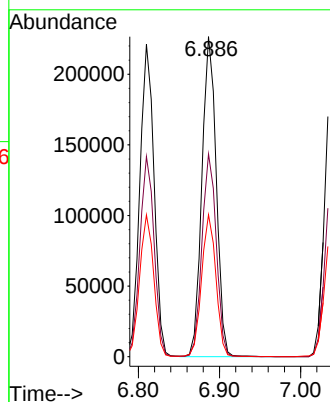
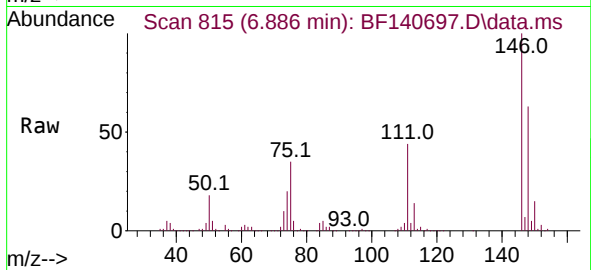
#13  
1,4-Dichlorobenzene  
Concen: 44.540 ng  
RT: 6.886 min Scan# 815  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS

Tgt Ion:146 Resp: 277935  
Ion Ratio Lower Upper  
146 100  
148 63.4 51.0 76.6  
111 44.3 35.3 52.9

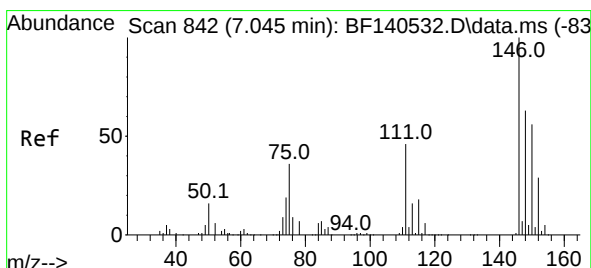
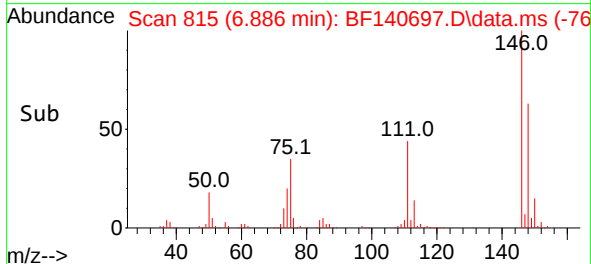
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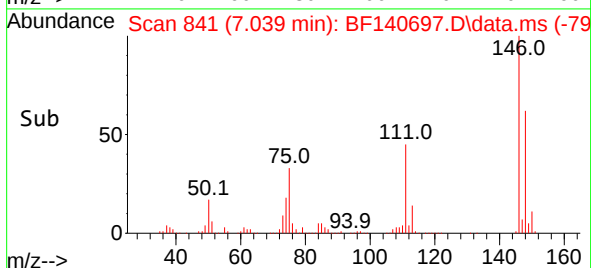
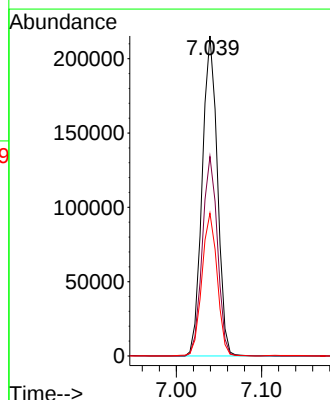
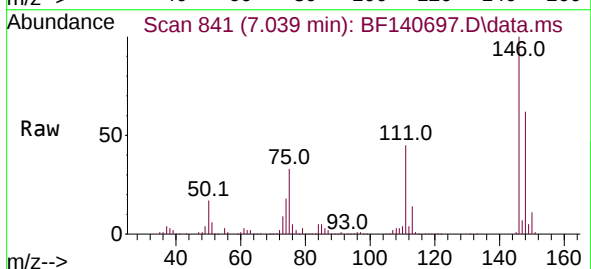
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#14  
1,2-Dichlorobenzene  
Concen: 45.612 ng  
RT: 7.039 min Scan# 841  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

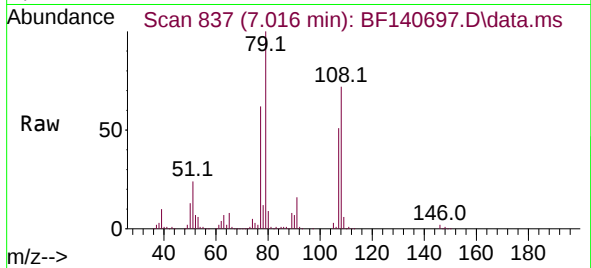
Tgt Ion:146 Resp: 266699  
Ion Ratio Lower Upper  
146 100  
148 62.3 50.5 75.7  
111 44.6 36.7 55.1





#15  
Benzyl Alcohol  
Concen: 47.728 ng  
RT: 7.016 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

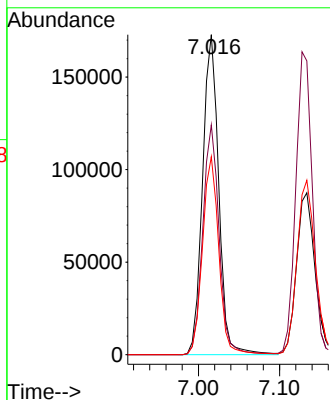
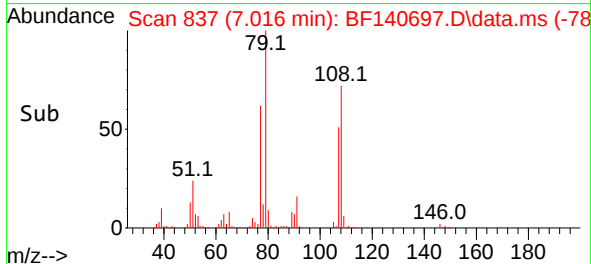
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion: 79 Resp: 238550  
Ion Ratio Lower Upper  
79 100  
108 71.8 55.0 82.6  
77 61.8 50.1 75.1

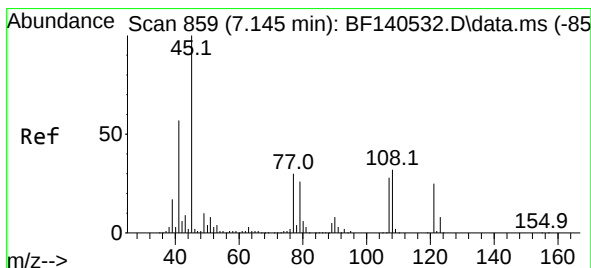
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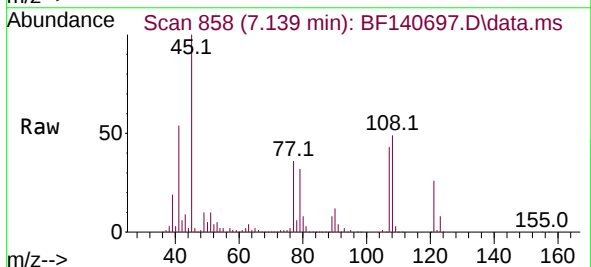


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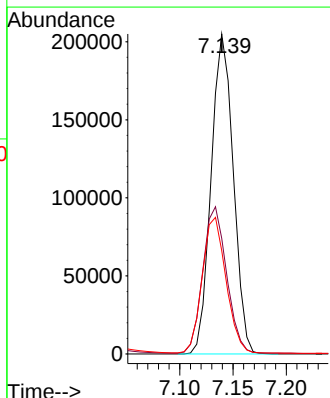
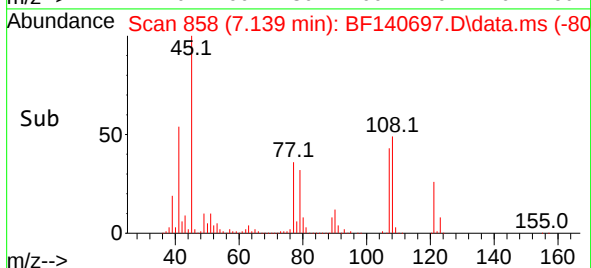
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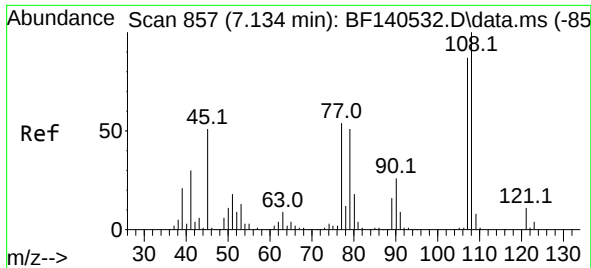


#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 47.562 ng  
RT: 7.139 min Scan# 858  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57



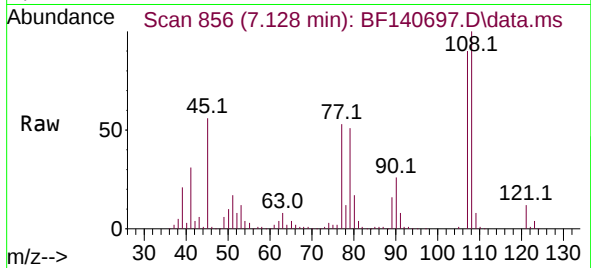
Tgt Ion: 45 Resp: 295947  
Ion Ratio Lower Upper  
45 100  
77 36.2 10.7 50.7  
79 32.3 7.0 47.0





#17  
2-Methylphenol  
Concen: 47.007 ng  
RT: 7.128 min Scan# 810  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

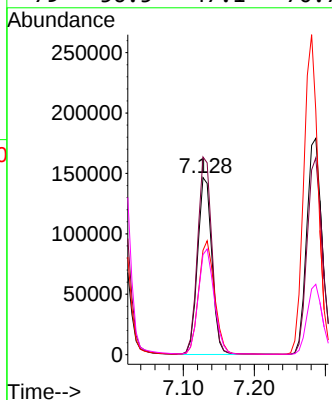
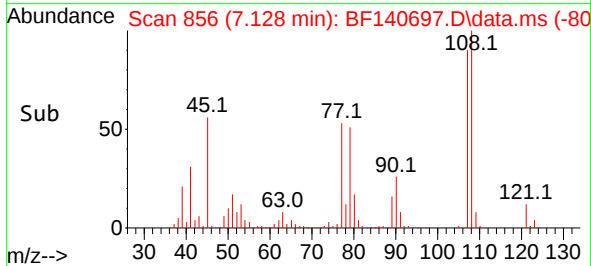
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:107 Resp: 206380  
Ion Ratio Lower Upper  
107 100  
108 111.7 91.7 137.5  
77 58.9 49.3 73.9  
79 56.5 47.1 70.7

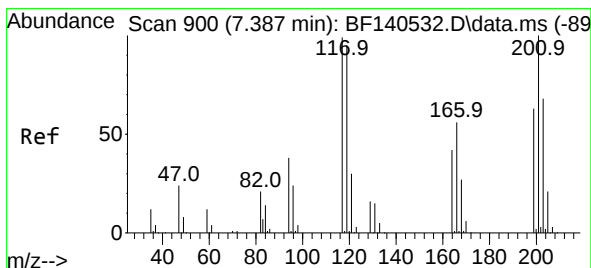
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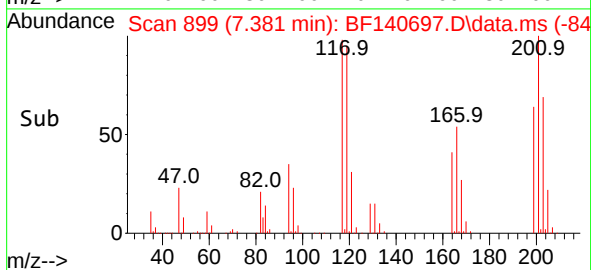
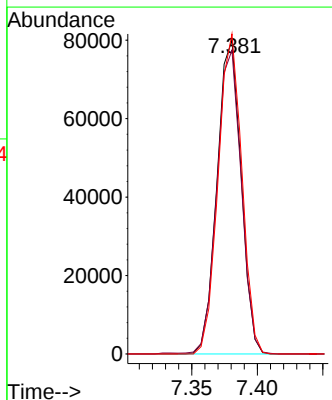
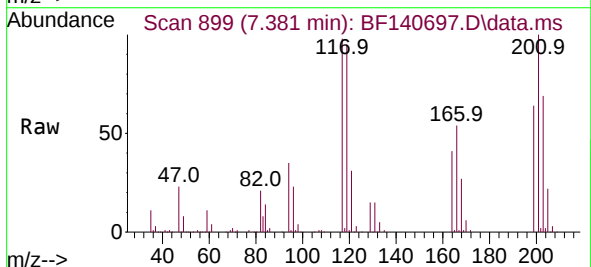
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#18  
Hexachloroethane  
Concen: 43.672 ng  
RT: 7.381 min Scan# 899  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion:117 Resp: 101781  
Ion Ratio Lower Upper  
117 100  
119 96.9 77.1 115.7  
201 102.0 81.1 121.7





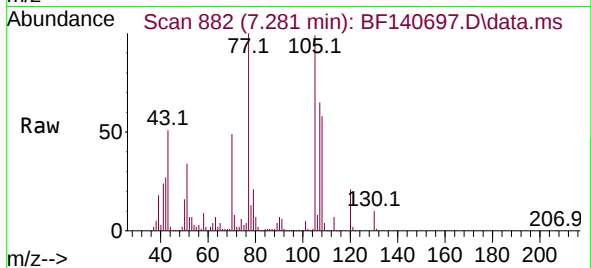
#19  
n-Nitroso-di-n-propylamine  
Concen: 46.124 ng  
RT: 7.281 min Scan# 882  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

ClientSampleId :

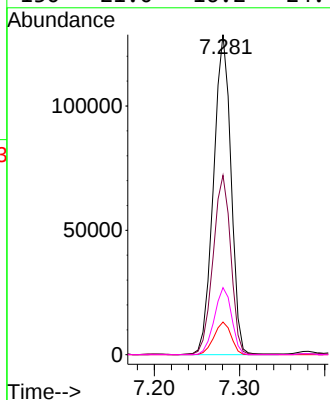
SOIL-1-HAMMS



Tgt Ion: 70 Resp: 183718  
Ion Ratio Lower Upper  
70 100  
42 56.1 47.6 71.4  
101 10.2 7.6 11.4  
130 21.0 16.2 24.4

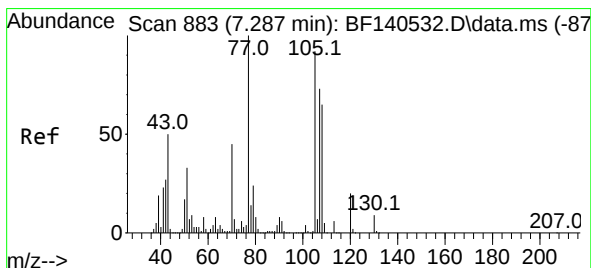
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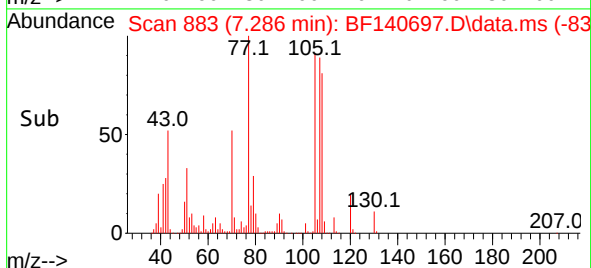
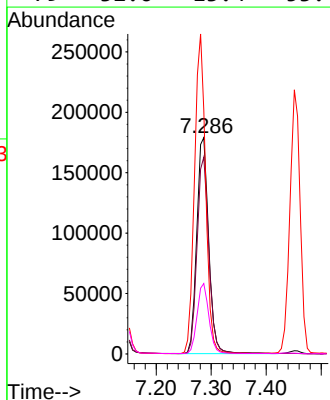
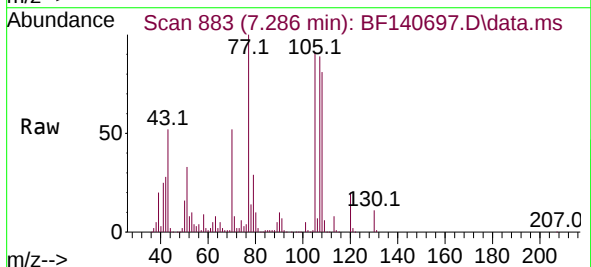
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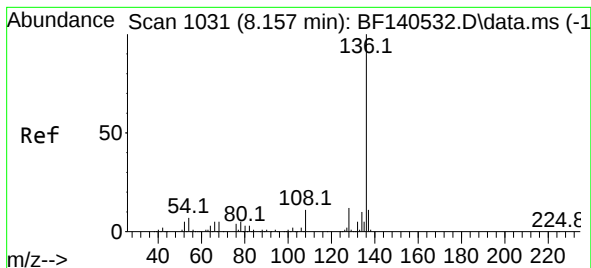
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#20  
3+4-Methylphenols  
Concen: 47.945 ng  
RT: 7.286 min Scan# 883  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion:107 Resp: 270560  
Ion Ratio Lower Upper  
107 100  
108 91.0 69.9 109.9  
77 112.7 117.7 157.7#  
79 32.6 13.4 53.4





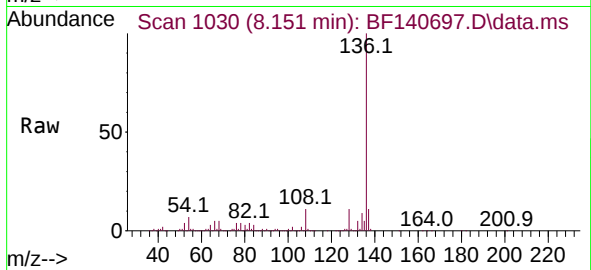
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.151 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

ClientSampleId :

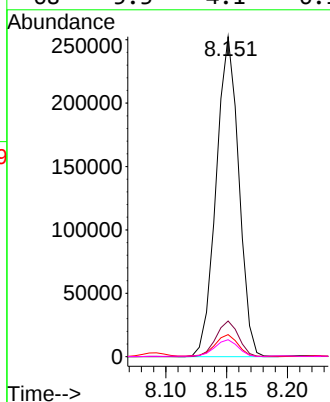
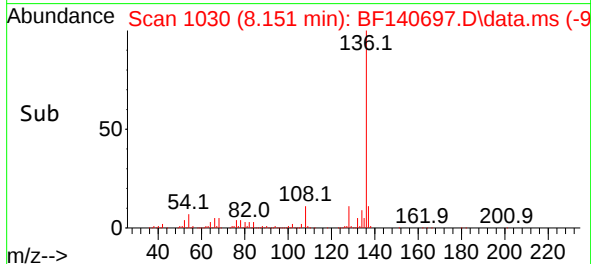
SOIL-1-HAMMS



Tgt Ion:136 Resp: 326220  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.6 13.0  
54 6.9 5.8 8.8  
68 5.3 4.1 6.1

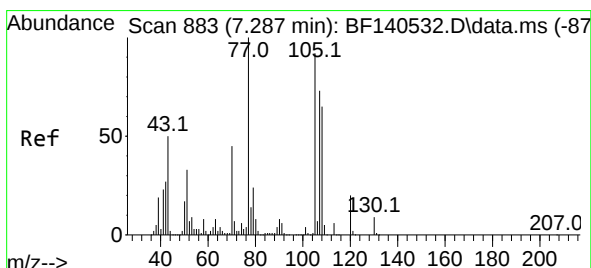
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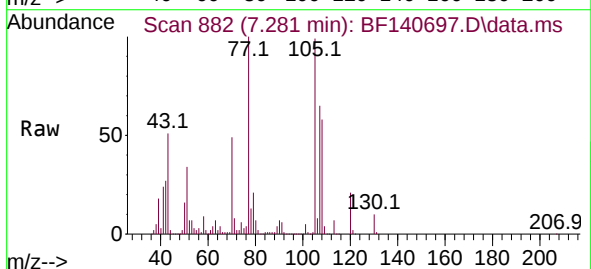


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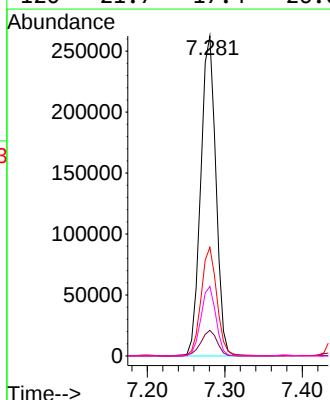
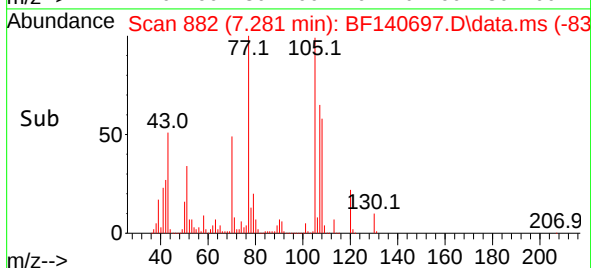
12/05/2024



#22  
Acetophenone  
Concen: 44.867 ng  
RT: 7.281 min Scan# 882  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57



Tgt Ion:105 Resp: 356828  
Ion Ratio Lower Upper  
105 100  
71 8.0 6.2 9.2  
51 34.0 29.0 43.6  
120 21.7 17.4 26.0





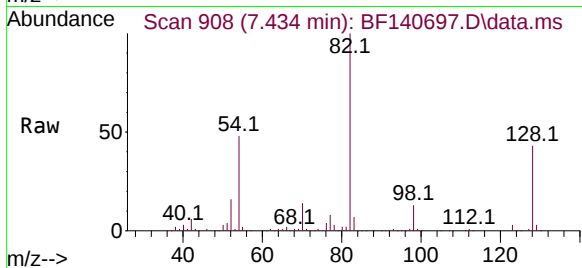
#23  
Nitrobenzene-d5  
Concen: 51.253 ng  
RT: 7.434 min Scan# 909  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

ClientSampleId :

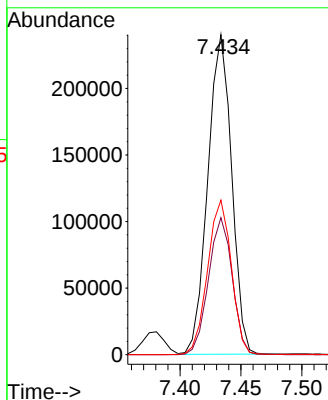
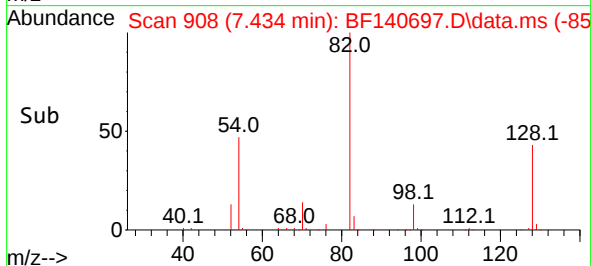
SOIL-1-HAMMS



Tgt Ion: 82 Resp: 326879  
Ion Ratio Lower Upper  
82 100  
128 42.8 33.0 49.4  
54 48.3 39.5 59.3

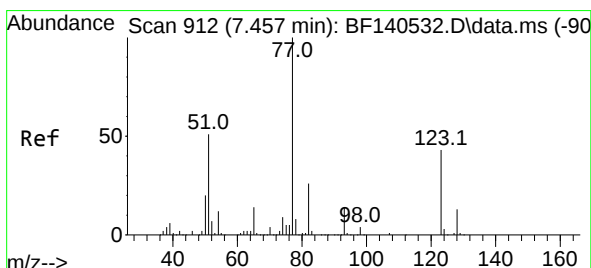
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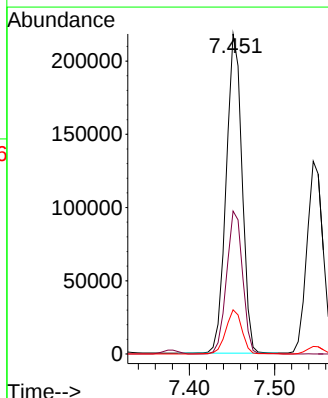
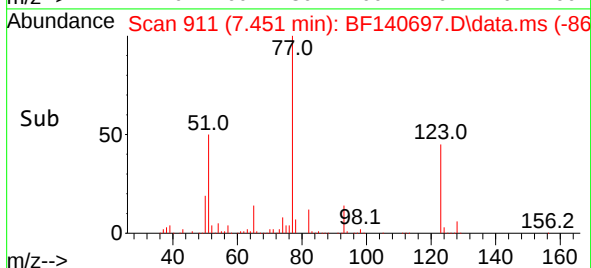
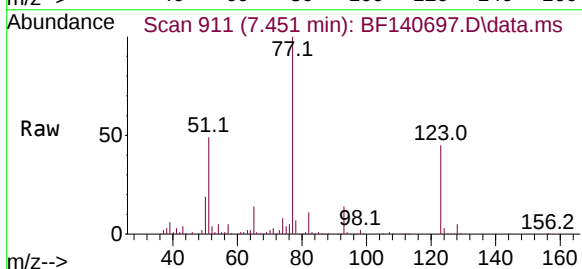
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Supervised By :mohammad  
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#24  
Nitrobenzene  
Concen: 42.855 ng  
RT: 7.451 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion: 77 Resp: 282479  
Ion Ratio Lower Upper  
77 100  
123 44.7 34.3 51.5  
65 13.8 11.2 16.8





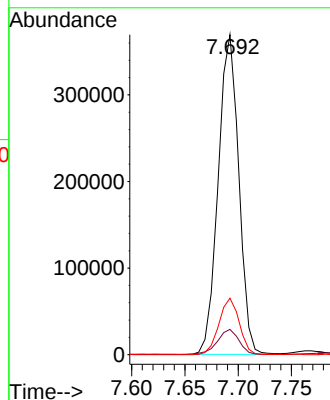
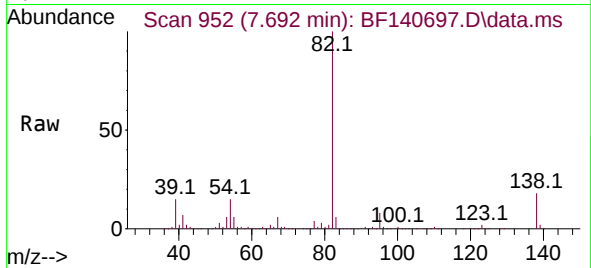
#25  
Isophorone  
Concen: 46.583 ng  
RT: 7.692 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS

Tgt Ion: 82 Resp: 49552  
Ion Ratio Lower Upper  
82 100  
95 7.9 6.4 9.6  
138 17.7 13.8 20.6

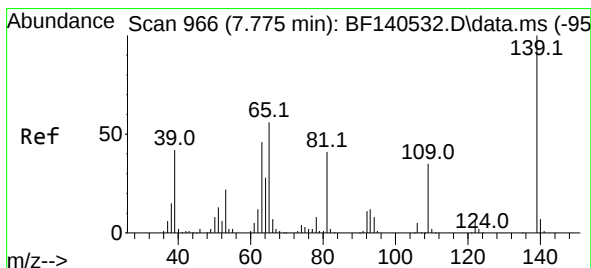
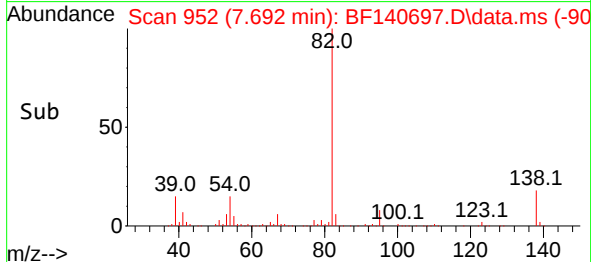
Manual Integrations  
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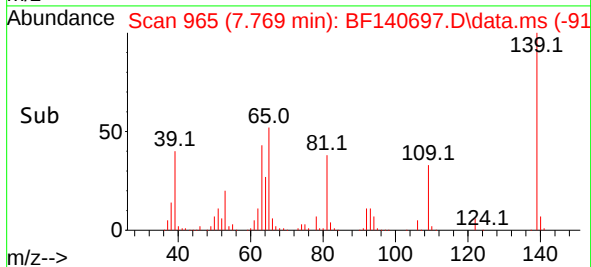
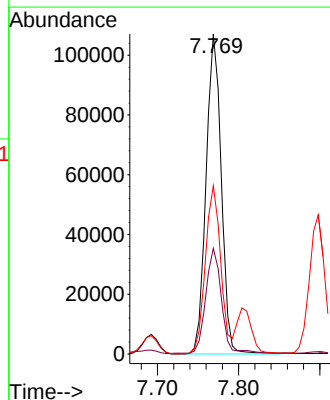
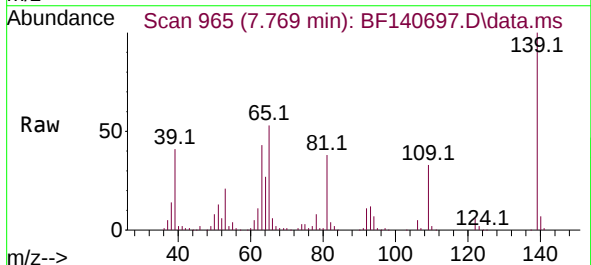
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Supervised By :mohammad  
ahmed

12/05/2024



#26  
2-Nitrophenol  
Concen: 47.555 ng  
RT: 7.769 min Scan# 965  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

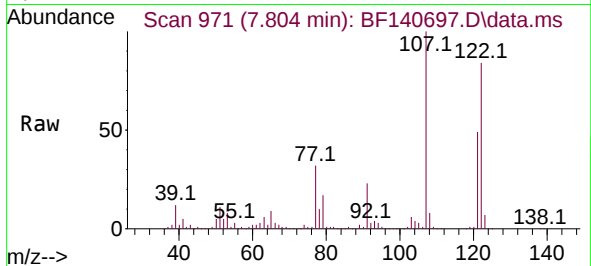
Tgt Ion:139 Resp: 138912  
Ion Ratio Lower Upper  
139 100  
109 33.0 28.0 42.0  
65 52.5 44.6 67.0





#27  
2,4-Dimethylphenol  
Concen: 59.075 ng m  
RT: 7.804 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

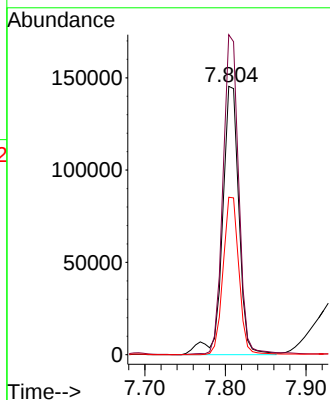
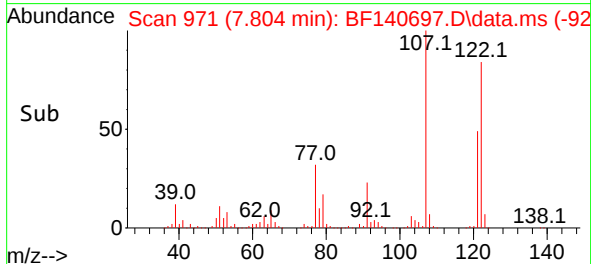
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:122 Resp: 20646  
Ion Ratio Lower Upper  
122 100  
107 119.3 96.8 145.2  
121 58.7 47.4 71.0

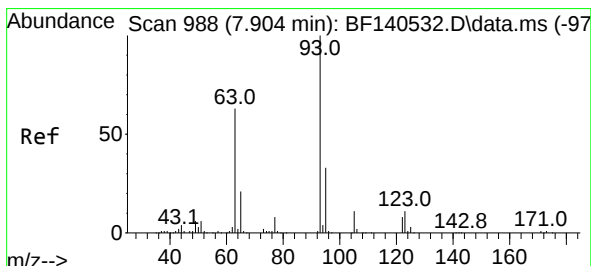
Manual Integrations  
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Upadhyay

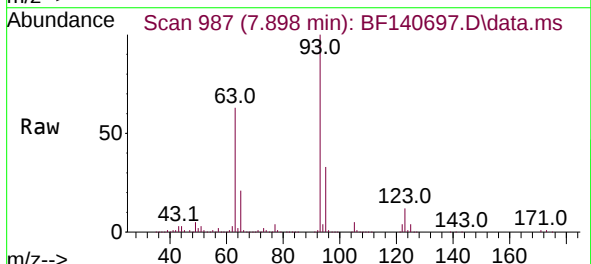


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Supervised By :mohammad  
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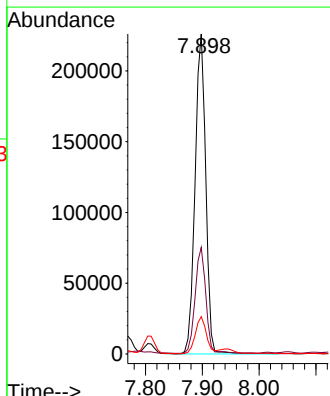
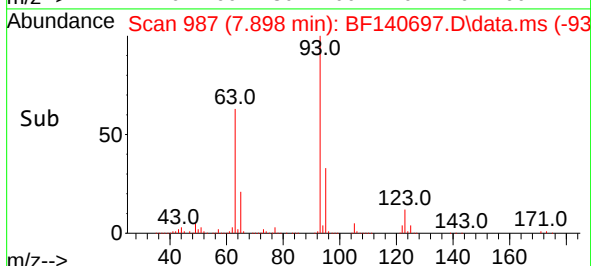
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#28  
bis(2-Chloroethoxy)methane  
Concen: 46.001 ng  
RT: 7.898 min Scan# 987  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57



Tgt Ion: 93 Resp: 298103  
Ion Ratio Lower Upper  
93 100  
95 33.3 26.1 39.1  
123 11.6 9.1 13.7





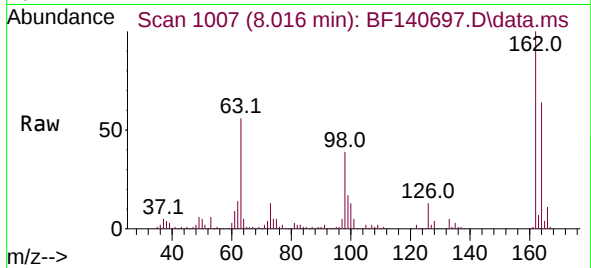
#29  
2,4-Dichlorophenol  
Concen: 48.210 ng  
RT: 8.016 min Scan# 1007  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

ClientSampleId :

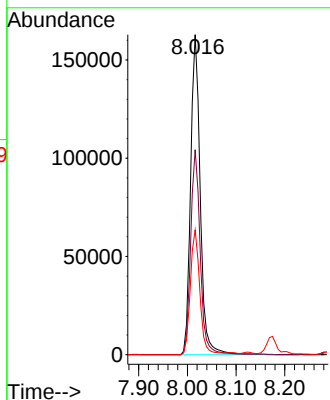
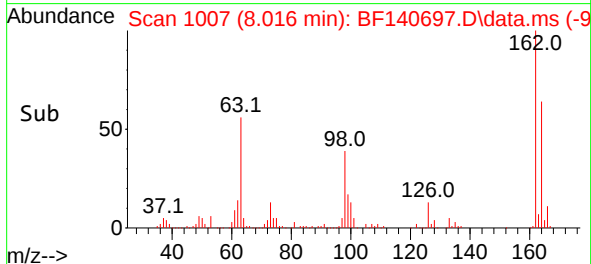
SOIL-1-HAMMS



Tgt Ion:162 Resp: 223268  
Ion Ratio Lower Upper  
162 100  
164 64.0 44.8 84.8  
98 38.9 21.2 61.2

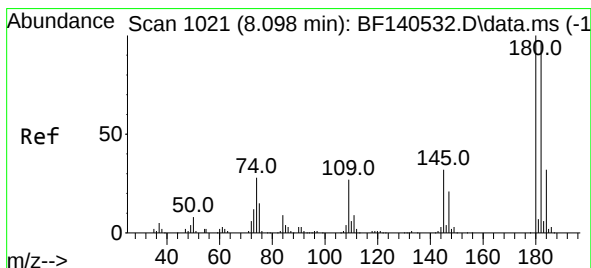
Manual Integrations  
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Reviewed By :Jagrut  
Upadhyay

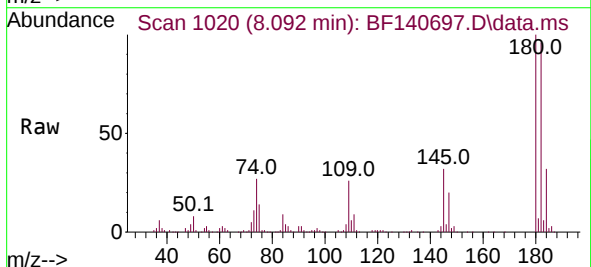


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Supervised By :mohammad  
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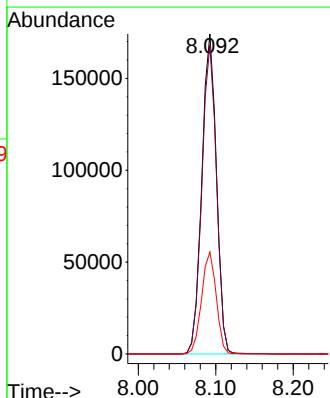
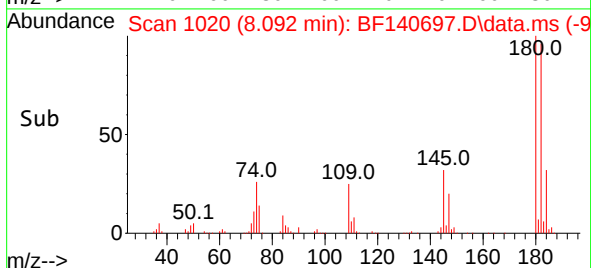
12/05/2024

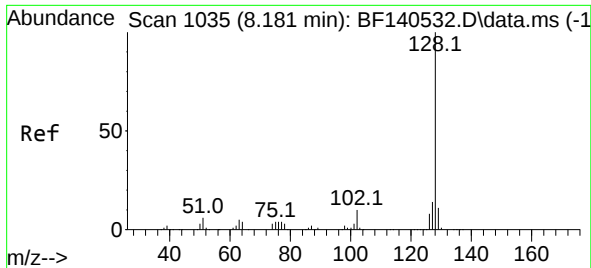


#30  
1,2,4-Trichlorobenzene  
Concen: 43.118 ng  
RT: 8.092 min Scan# 1020  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57



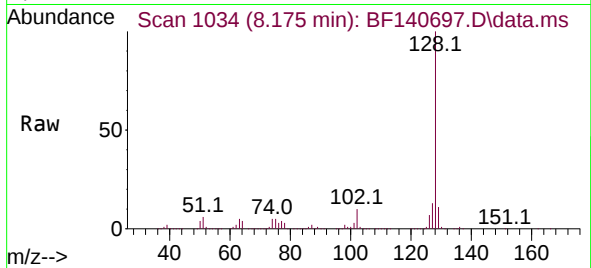
Tgt Ion:180 Resp: 227995  
Ion Ratio Lower Upper  
180 100  
182 96.4 76.4 114.6  
145 31.9 25.9 38.9





#31  
Naphthalene  
Concen: 44.763 ng  
RT: 8.175 min Scan# 1034  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

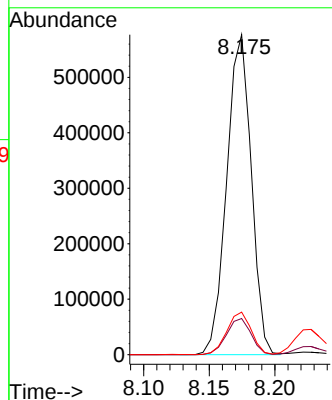
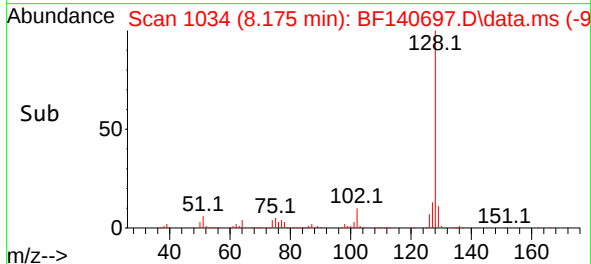
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:128 Resp: 75216  
Ion Ratio Lower Upper  
128 100  
129 11.3 8.6 13.0  
127 13.3 10.8 16.2

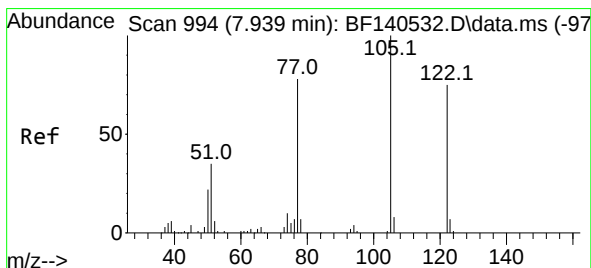
Manual Integrations  
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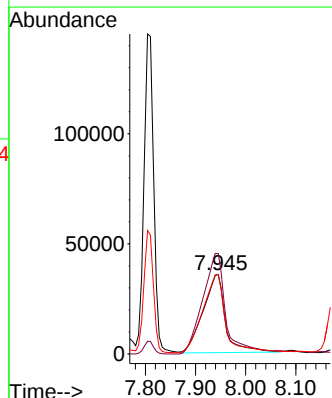
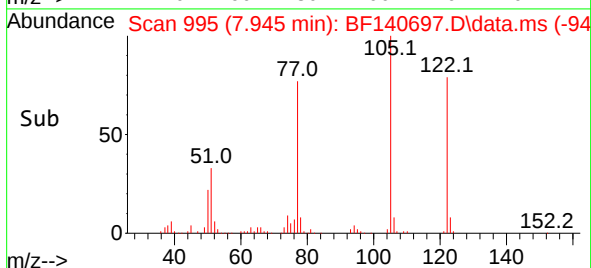
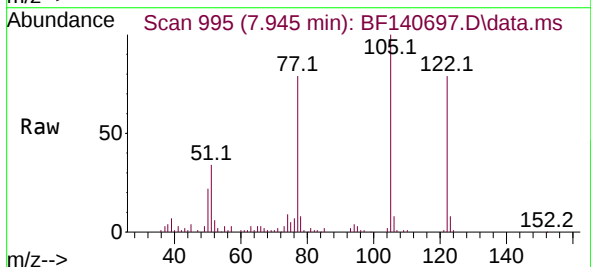
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Supervised By :mohammad  
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#32  
Benzoic acid  
Concen: 38.058 ng  
RT: 7.945 min Scan# 995  
Delta R.T. 0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion:122 Resp: 110420  
Ion Ratio Lower Upper  
122 100  
105 126.4 109.3 149.3  
77 100.0 82.3 122.3





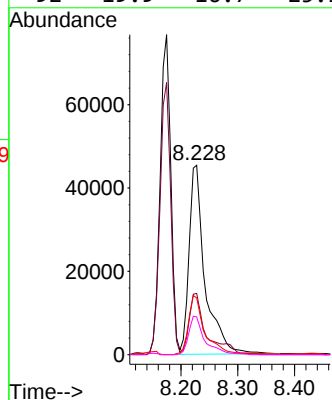
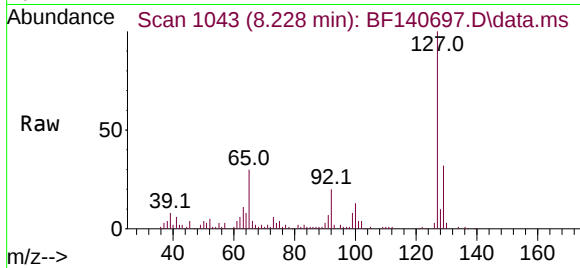
#33  
4-Chloroaniline  
Concen: 17.580 ng  
RT: 8.228 min Scan# 1043  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 127   | Resp: | 8844 |
| Ion Ratio | Lower | Upper |      |
| 127       | 100   |       |      |
| 129       | 32.3  | 26.0  | 39.0 |
| 65        | 30.0  | 26.0  | 39.0 |
| 92        | 19.9  | 16.7  | 25.1 |

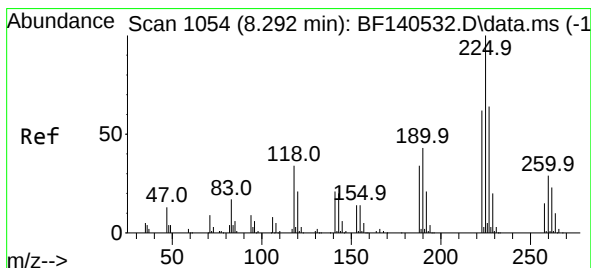
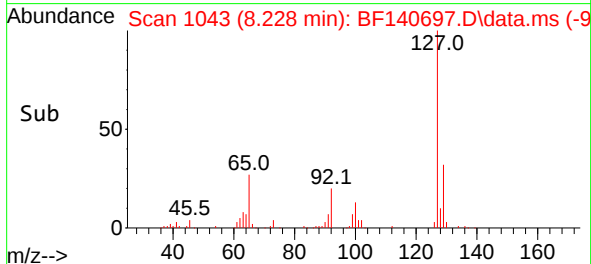
Manual Integrations  
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Upadhyay



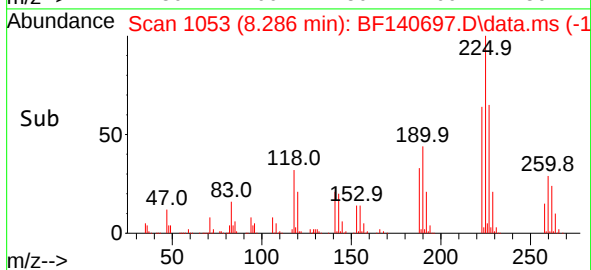
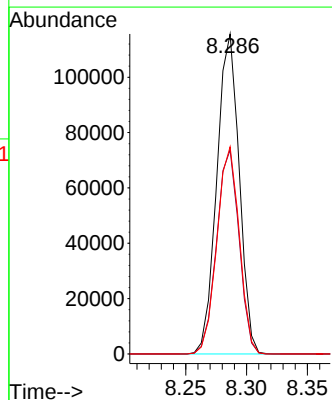
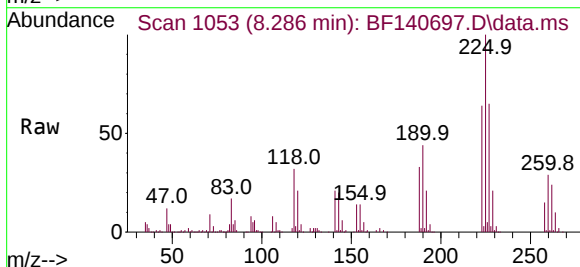
12/03/2024  
Supervised By :mohammad  
ahmed

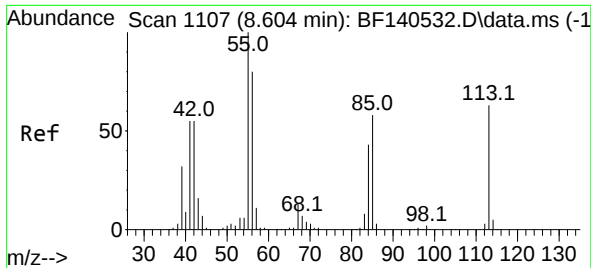
12/05/2024



#34  
Hexachlorobutadiene  
Concen: 42.244 ng  
RT: 8.286 min Scan# 1053  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 147954 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 63.8  | 49.8  | 74.8   |
| 227       | 64.8  | 51.3  | 76.9   |





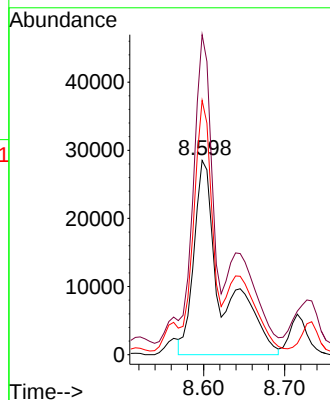
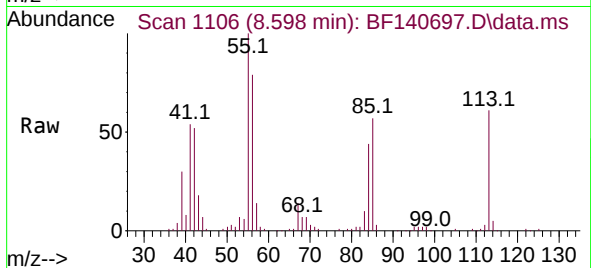
#35  
Caprolactam  
Concen: 49.019 ng m  
RT: 8.598 min Scan# 1106  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS

Tgt Ion:113 Resp: 7025  
Ion Ratio Lower Upper  
113 100  
55 164.7 137.7 177.7  
56 130.9 106.4 146.4

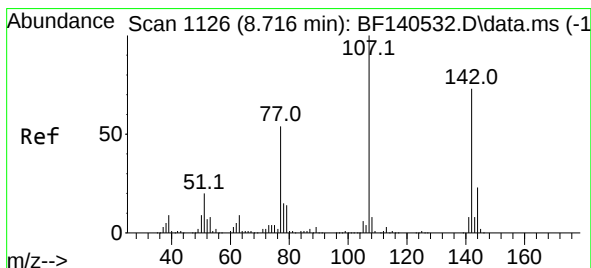
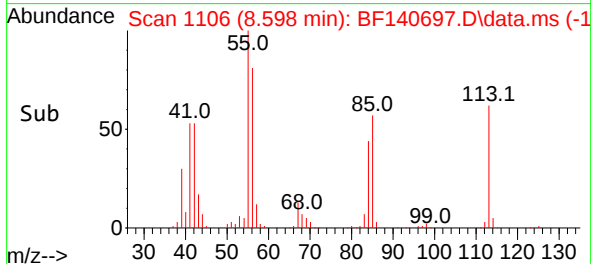
Manual Integrations  
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Upadhyay



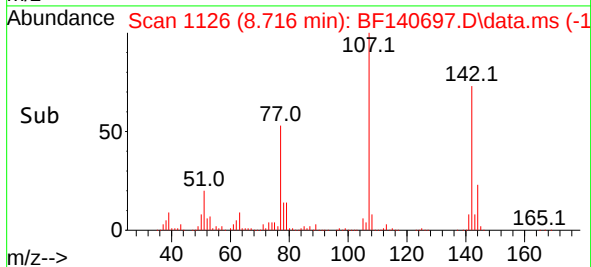
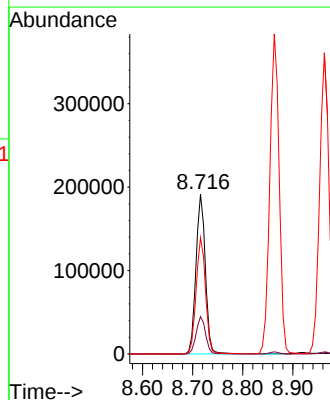
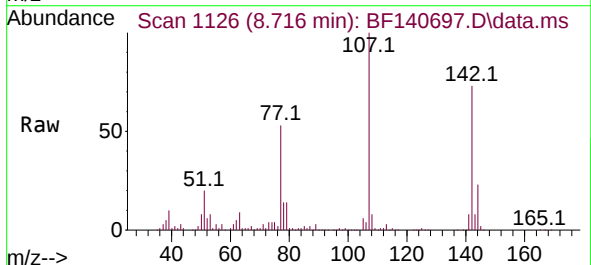
12/03/2024  
Supervised By :mohammad  
ahmed

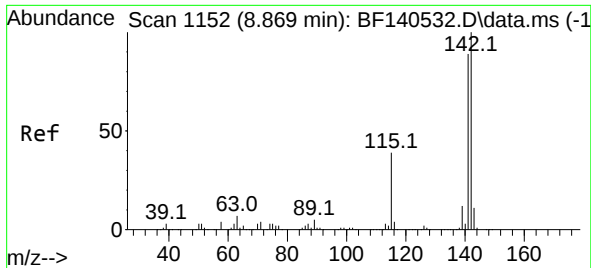
12/05/2024



#36  
4-Chloro-3-methylphenol  
Concen: 48.104 ng  
RT: 8.716 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion:107 Resp: 249424  
Ion Ratio Lower Upper  
107 100  
144 23.4 18.7 28.1  
142 72.8 58.3 87.5





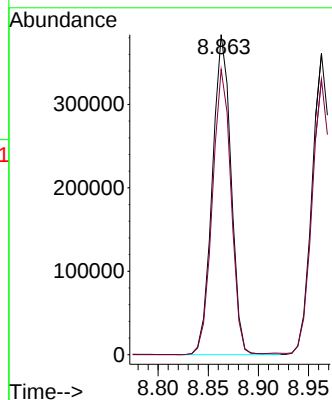
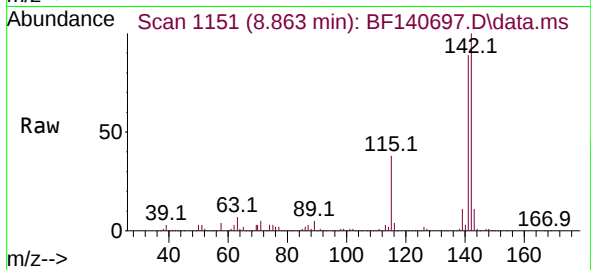
#37  
2-Methylnaphthalene  
Concen: 46.513 ng  
RT: 8.863 min Scan# 1152  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS

Tgt Ion:142 Resp: 496414  
Ion Ratio Lower Upper  
142 100  
141 89.2 71.0 106.6

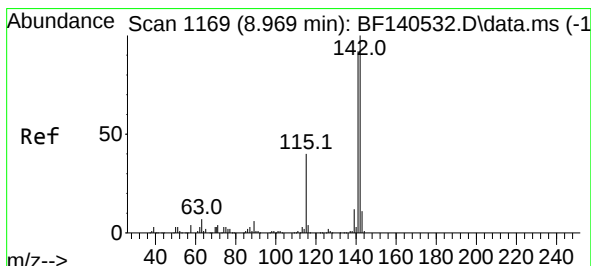
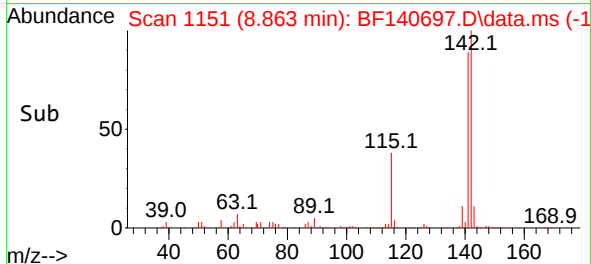
Manual Integrations  
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Upadhyay



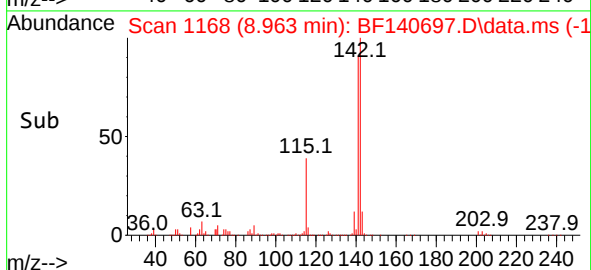
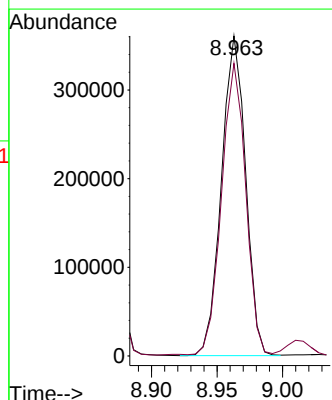
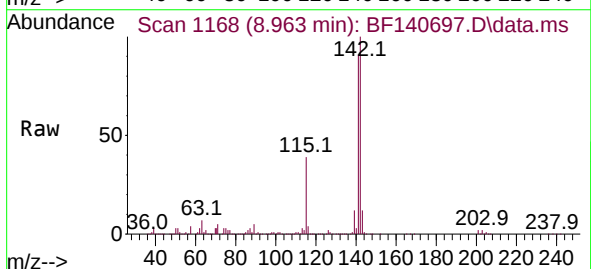
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ahmed

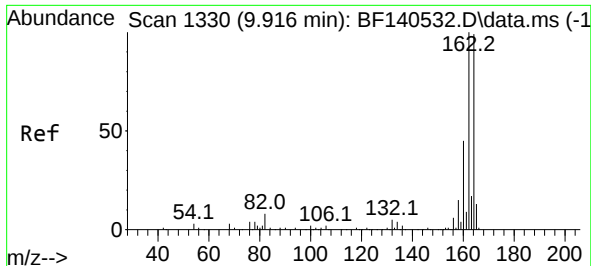
12/05/2024



#38  
1-Methylnaphthalene  
Concen: 44.102 ng  
RT: 8.963 min Scan# 1168  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion:142 Resp: 461372  
Ion Ratio Lower Upper  
142 100  
141 91.5 73.3 109.9





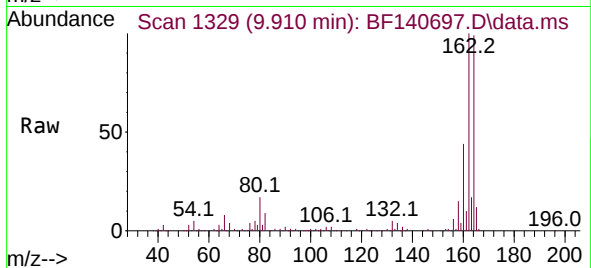
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.910 min Scan# 1179  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

ClientSampleId :

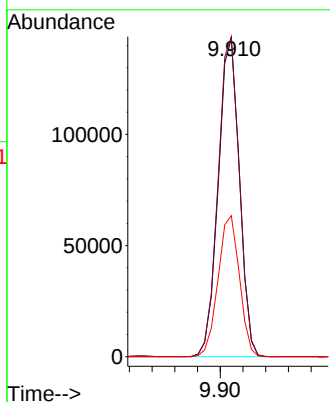
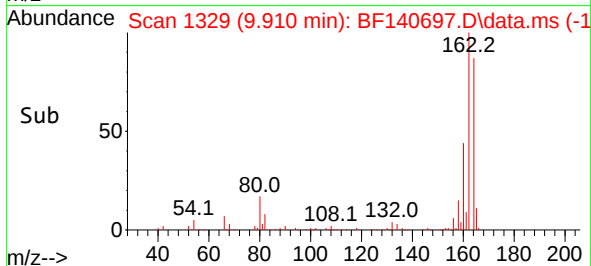
SOIL-1-HAMMS



Tgt Ion:164 Resp: 185319  
Ion Ratio Lower Upper  
164 100  
162 100.6 80.6 120.8  
160 44.3 36.2 54.4

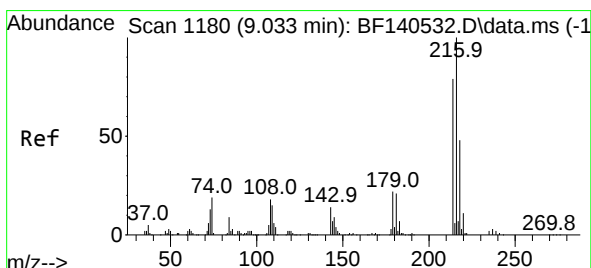
Manual Integrations  
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Upadhyay

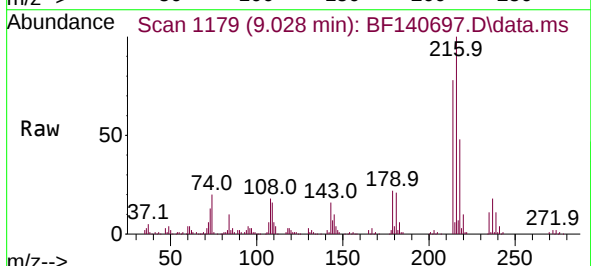


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Supervised By :mohammad  
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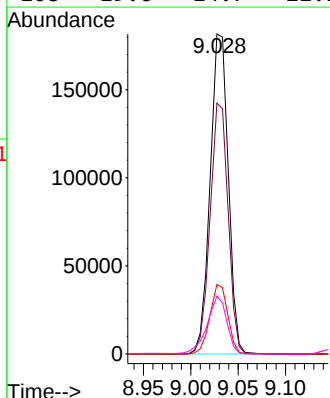
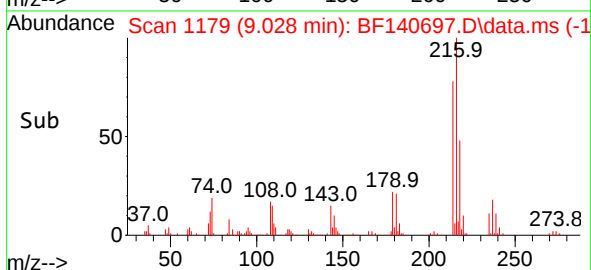
12/05/2024

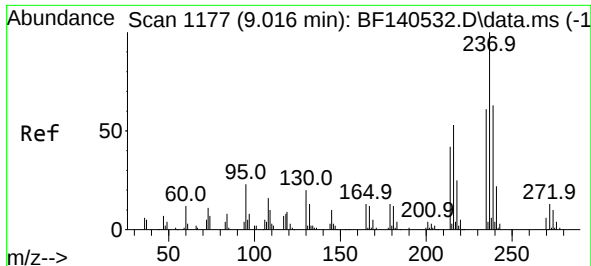


#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 44.516 ng  
RT: 9.028 min Scan# 1179  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57



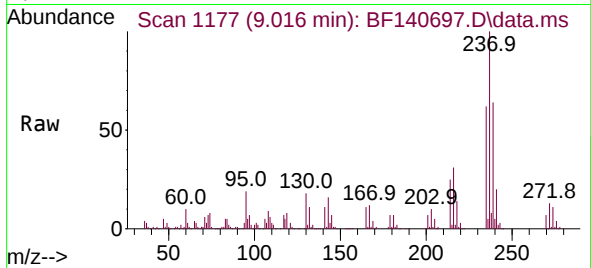
Tgt Ion:216 Resp: 241508  
Ion Ratio Lower Upper  
216 100  
214 78.0 63.0 94.4  
179 21.4 17.5 26.3  
108 19.6 14.7 22.1





#41  
Hexachlorocyclopentadiene  
Concen: 151.133 ng  
RT: 9.016 min Scan# 1177  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

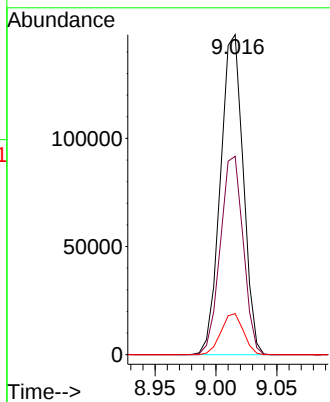
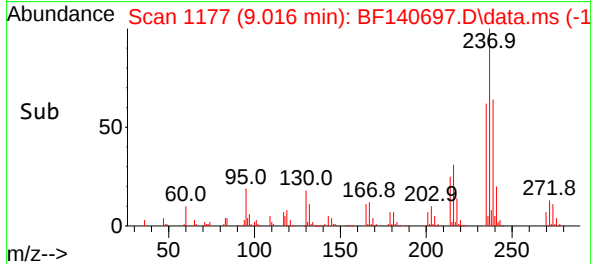
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:237 Resp: 193000  
Ion Ratio Lower Upper  
237 100  
235 62.0 41.1 81.1  
272 12.8 0.0 32.6

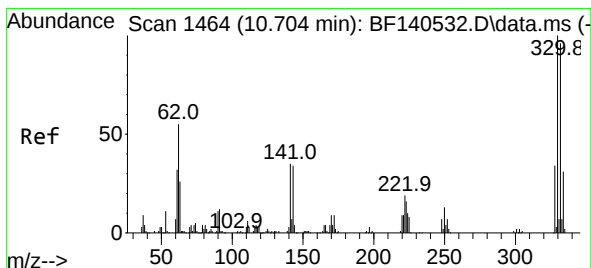
Manual Integrations  
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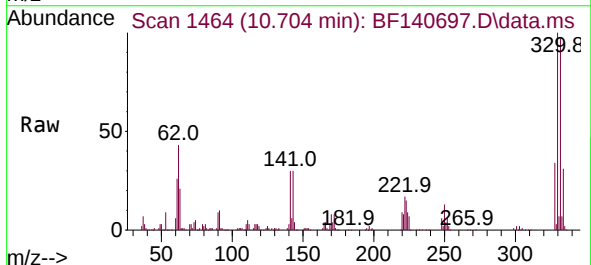


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Supervised By :mohammad  
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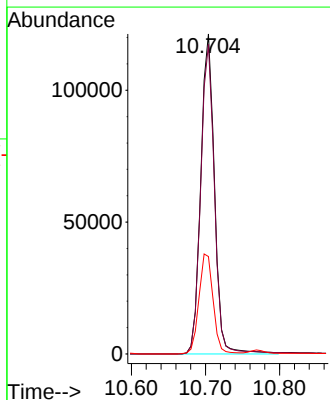
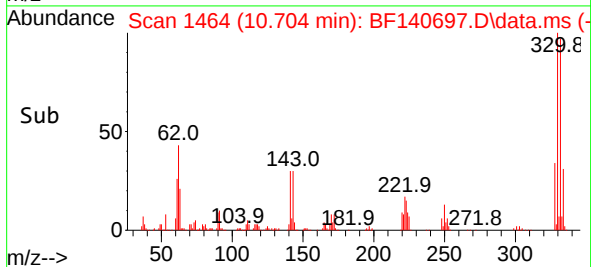
12/05/2024

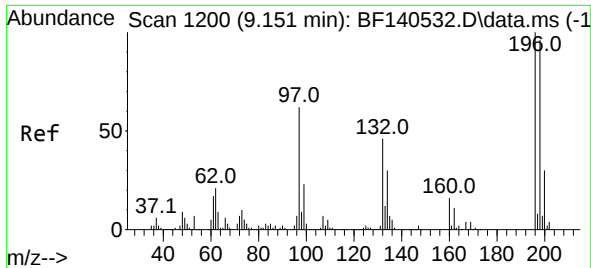


#42  
2,4,6-Tribromophenol  
Concen: 78.897 ng  
RT: 10.704 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57



Tgt Ion:330 Resp: 156373  
Ion Ratio Lower Upper  
330 100  
332 97.8 76.9 115.3  
141 32.3 26.7 40.1





#43  
2,4,6-Trichlorophenol  
Concen: 45.271 ng  
RT: 9.145 min Scan# 1199  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

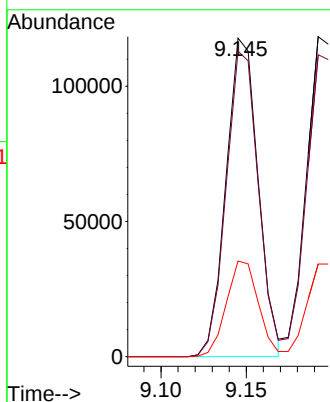
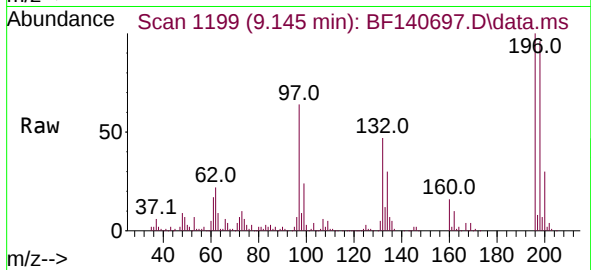
ClientSampleId :

SOIL-1-HAMMS

Tgt Ion:196 Resp: 15411  
Ion Ratio Lower Upper  
196 100  
198 95.9 76.8 115.2  
200 30.0 24.3 36.5

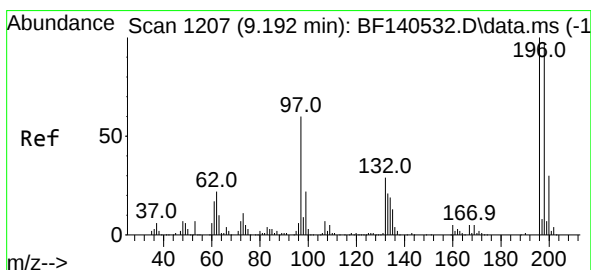
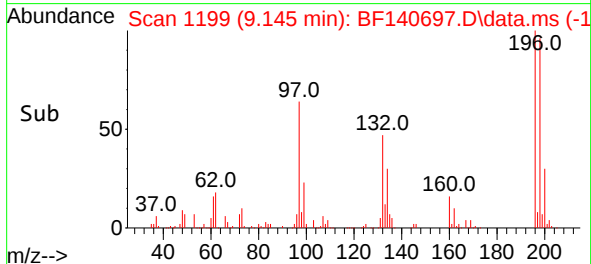
Manual Integrations  
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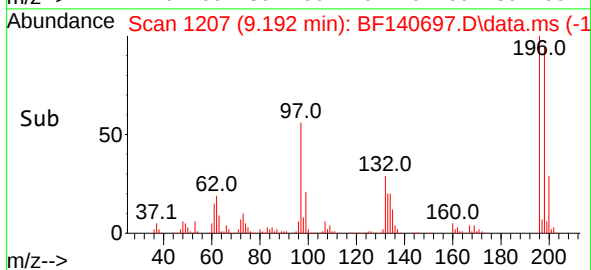
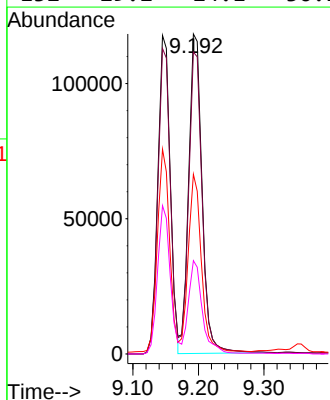
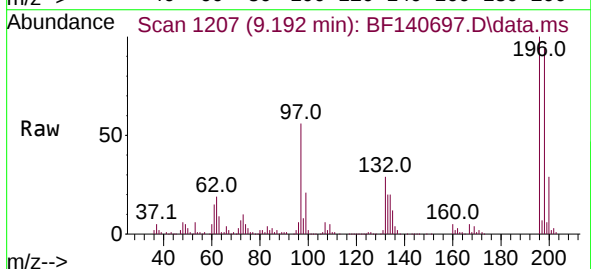
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Supervised By :mohammad  
ahmed

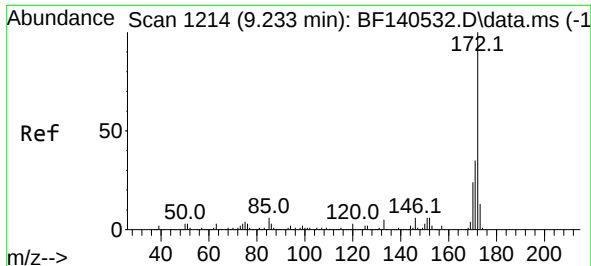
12/05/2024



#44  
2,4,5-Trichlorophenol  
Concen: 45.529 ng  
RT: 9.192 min Scan# 1207  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

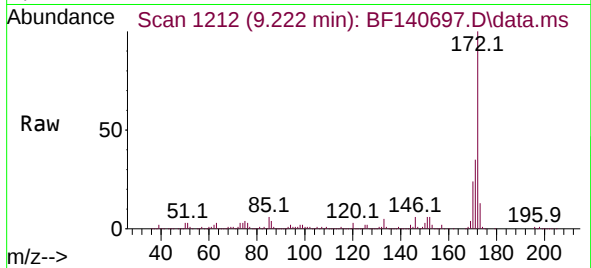
Tgt Ion:196 Resp: 168210  
Ion Ratio Lower Upper  
196 100  
198 94.4 77.2 115.8  
97 56.1 47.1 70.7  
132 29.2 24.1 36.1





#45  
2-Fluorobiphenyl  
Concen: 49.676 ng  
RT: 9.222 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

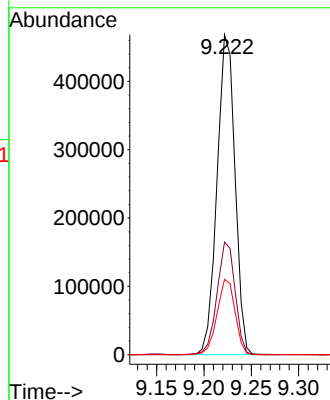
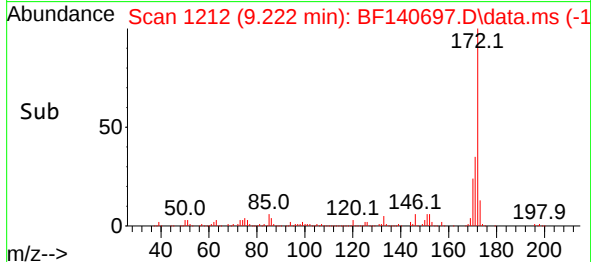
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:172 Resp: 61786  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.4 42.6  
170 23.6 19.0 28.6

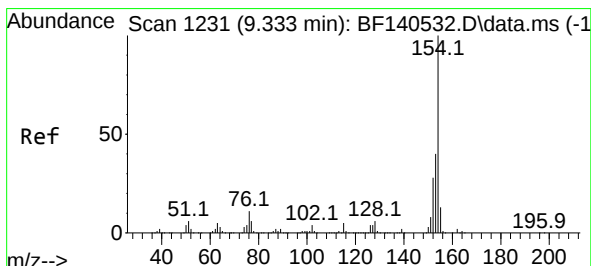
Manual Integrations  
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Upadhyay

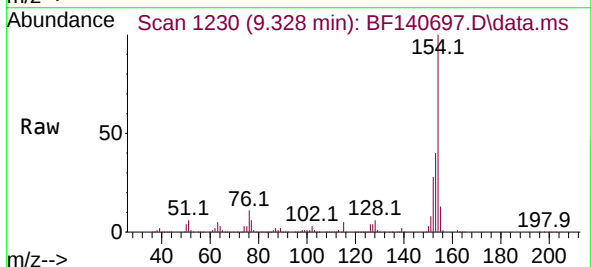


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Supervised By :mohammad  
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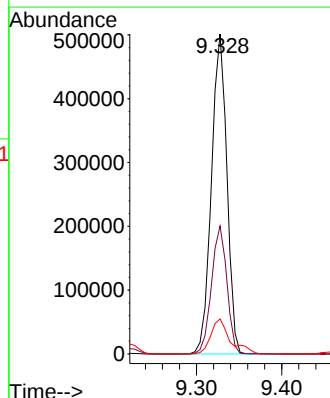
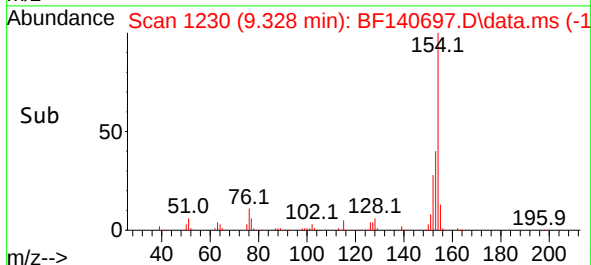
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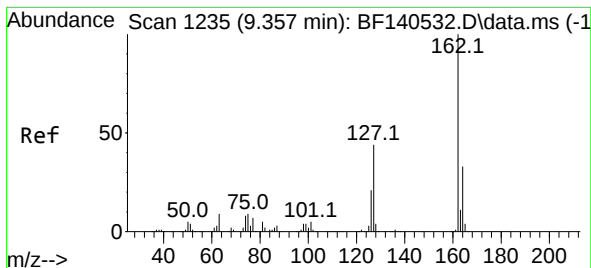


#46  
1,1'-Biphenyl  
Concen: 45.661 ng  
RT: 9.328 min Scan# 1230  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57



Tgt Ion:154 Resp: 631770  
Ion Ratio Lower Upper  
154 100  
153 40.0 20.4 60.4  
76 11.0 0.0 31.2





#47  
2-Chloronaphthalene  
Concen: 45.097 ng  
RT: 9.351 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

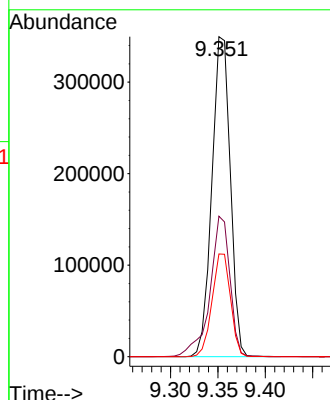
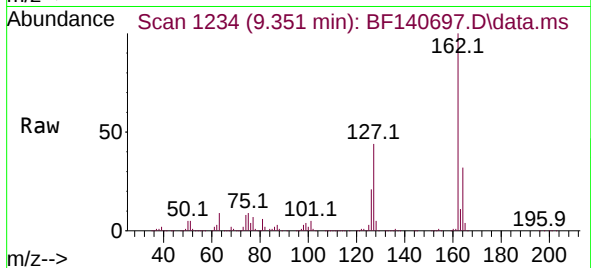
ClientSampleId :

SOIL-1-HAMMS

Tgt Ion:162 Resp: 472794  
Ion Ratio Lower Upper  
162 100  
127 43.9 35.7 53.5  
164 32.1 26.1 39.1

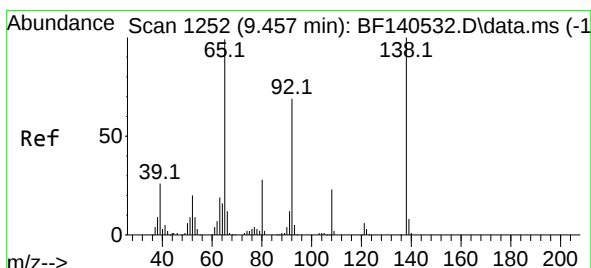
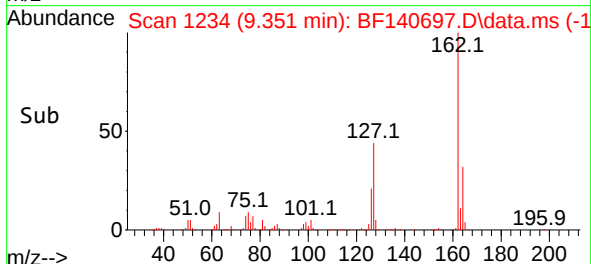
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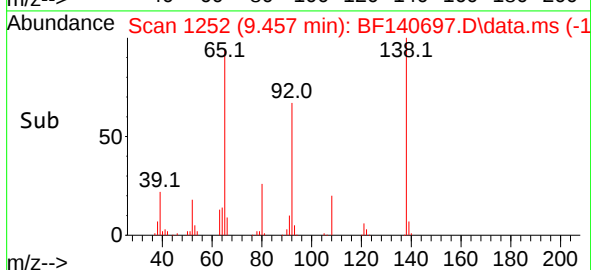
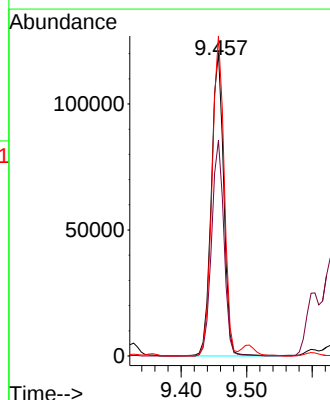
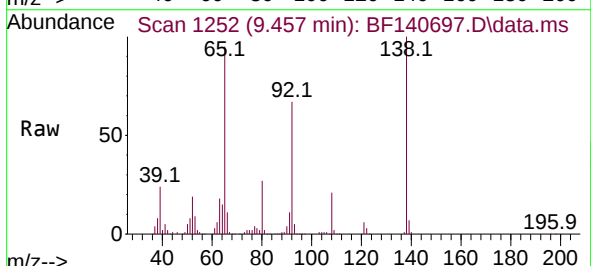
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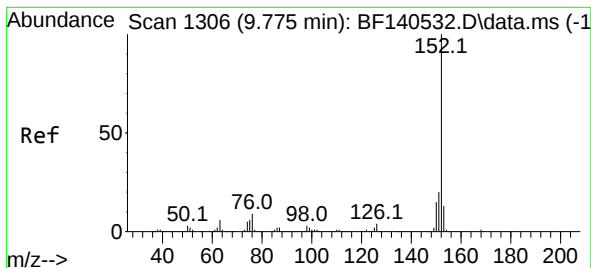
12/05/2024



#48  
2-Nitroaniline  
Concen: 47.089 ng  
RT: 9.457 min Scan# 1252  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion: 65 Resp: 158460  
Ion Ratio Lower Upper  
65 100  
92 71.1 56.1 84.1  
138 105.5 81.0 121.6





#49

Acenaphthylene

Concen: 49.165 ng

RT: 9.769 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF140697.D

Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

ClientSampleId :

SOIL-1-HAMMS

Tgt Ion:152 Resp: 77880

Ion Ratio Lower Upper

152 100

151 20.0 15.9 23.9

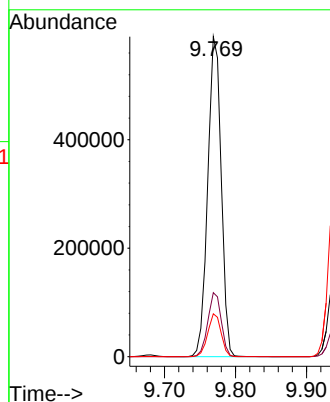
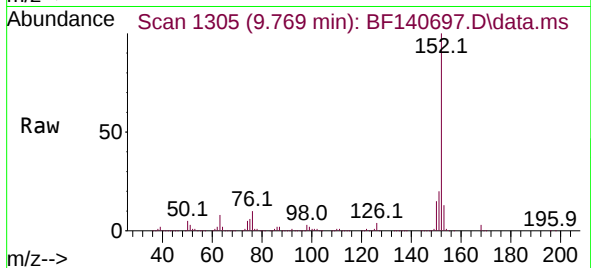
153 13.4 10.6 16.0

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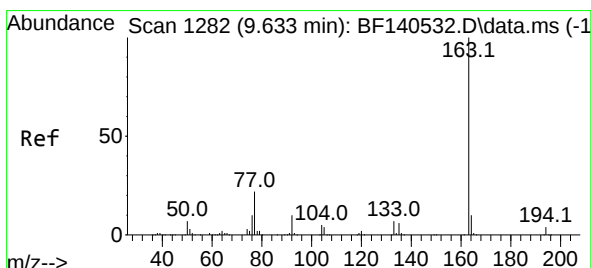
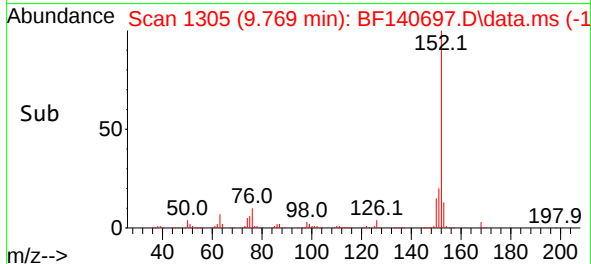
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#50

Dimethylphthalate

Concen: 46.729 ng

RT: 9.627 min Scan# 1281

Delta R.T. -0.006 min

Lab File: BF140697.D

Acq: 02 Dec 2024 18:57

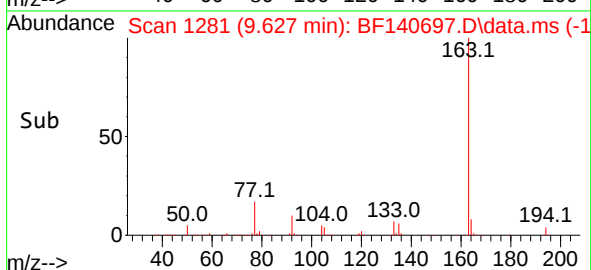
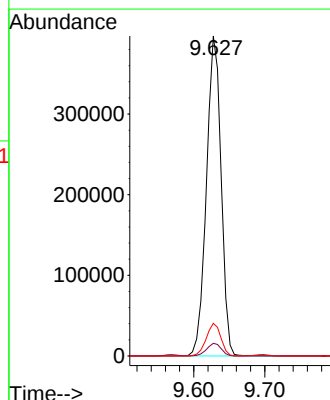
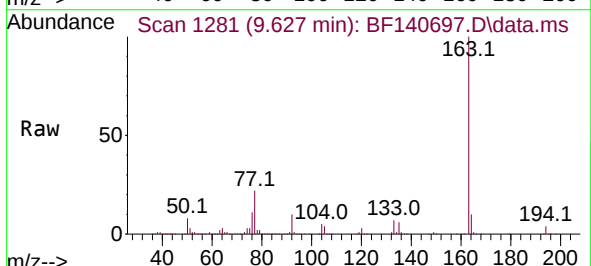
Tgt Ion:163 Resp: 570326

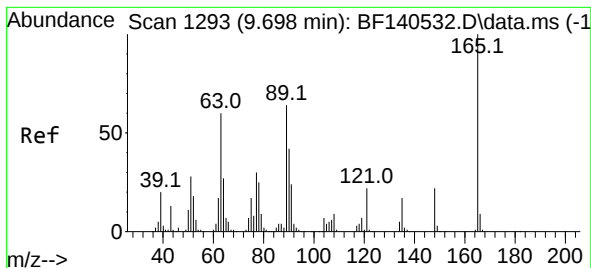
Ion Ratio Lower Upper

163 100

194 4.0 3.1 4.7

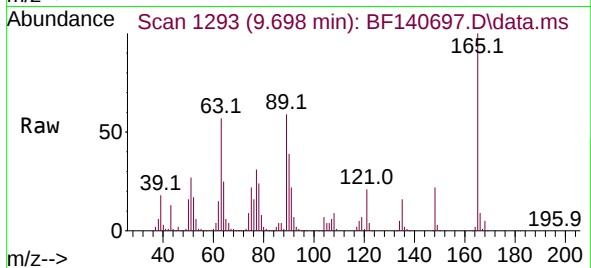
164 10.2 8.2 12.2





#51  
2,6-Dinitrotoluene  
Concen: 45.154 ng  
RT: 9.698 min Scan# 1293  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

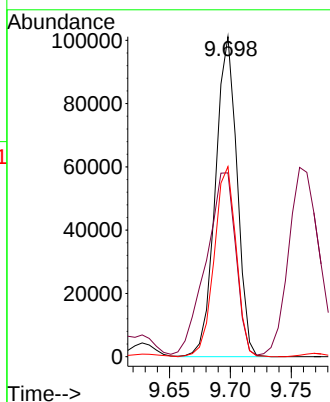
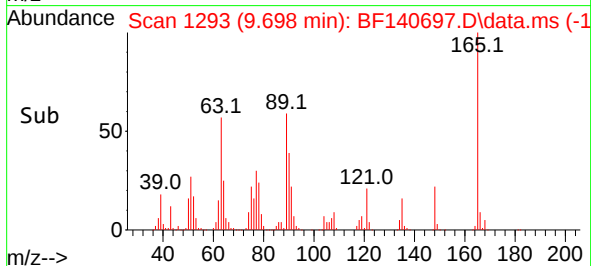
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:165 Resp: 124988  
Ion Ratio Lower Upper  
165 100  
63 57.5 49.9 74.9  
89 59.4 50.9 76.3

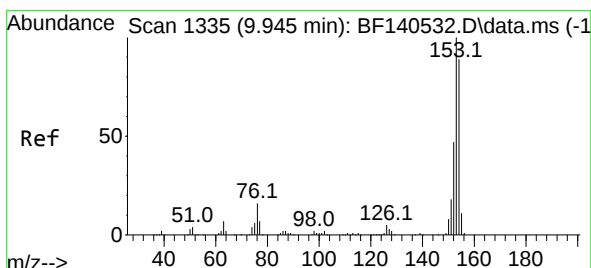
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Upadhyay



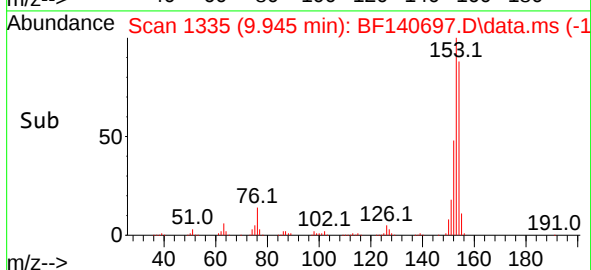
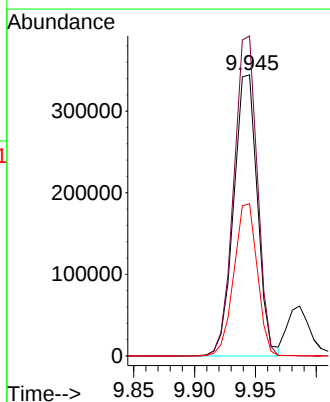
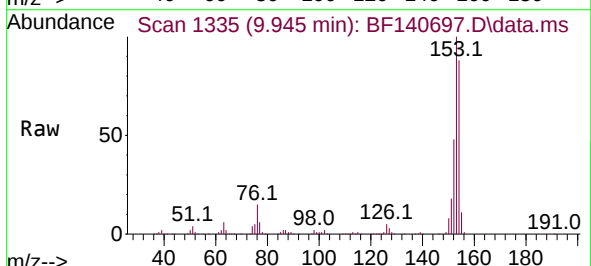
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Supervised By :mohammad  
ahmed

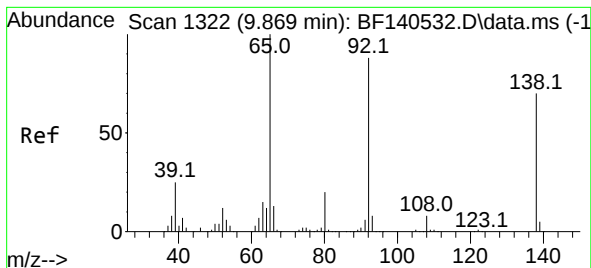
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#52  
Acenaphthene  
Concen: 46.553 ng  
RT: 9.945 min Scan# 1335  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion:154 Resp: 468552  
Ion Ratio Lower Upper  
154 100  
153 113.8 89.7 134.5  
152 54.1 42.5 63.7





#53  
3-Nitroaniline  
Concen: 28.217 ng  
RT: 9.869 min Scan# 1322  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

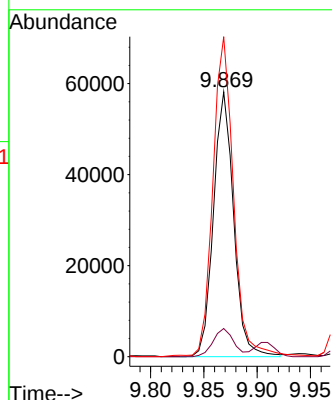
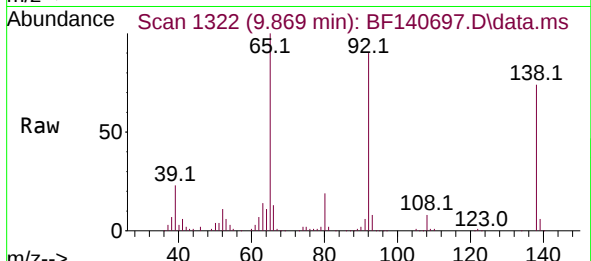
ClientSampleId :

SOIL-1-HAMMS

Tgt Ion:138 Resp: 7639  
Ion Ratio Lower Upper  
138 100  
108 10.7 9.2 13.8  
92 120.8 100.6 150.8

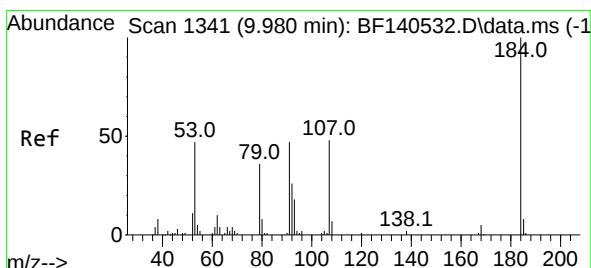
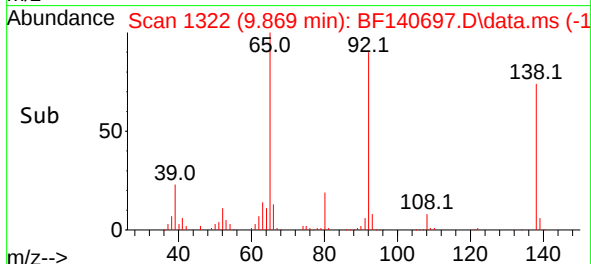
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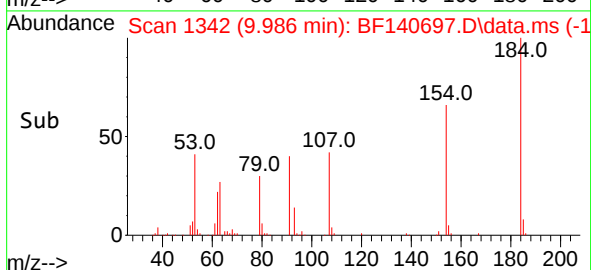
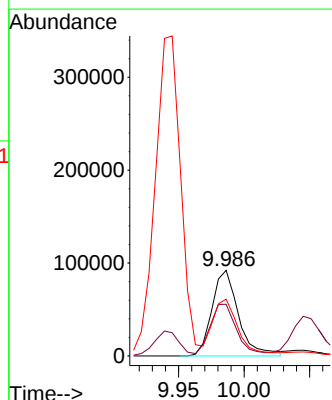
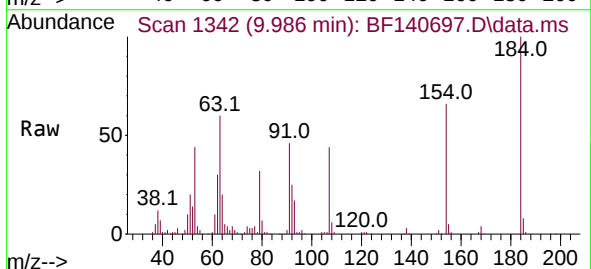
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Supervised By :mohammad  
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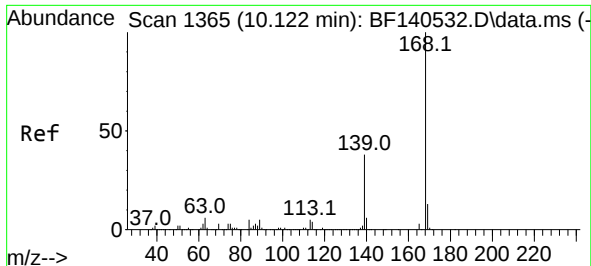
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#54  
2,4-Dinitrophenol  
Concen: 89.408 ng  
RT: 9.986 min Scan# 1342  
Delta R.T. 0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

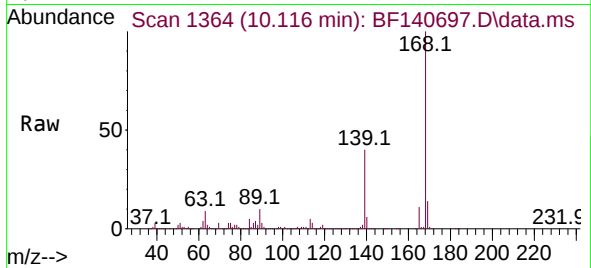
Tgt Ion:184 Resp: 129635  
Ion Ratio Lower Upper  
184 100  
63 60.4 54.1 81.1  
154 66.4 57.4 86.0





#55  
Dibenzenofuran  
Concen: 46.145 ng  
RT: 10.116 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

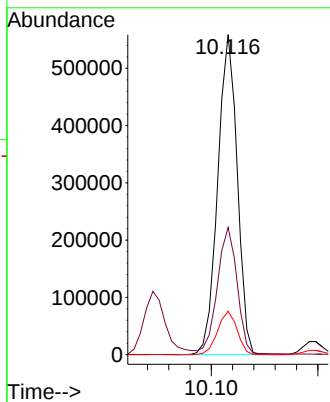
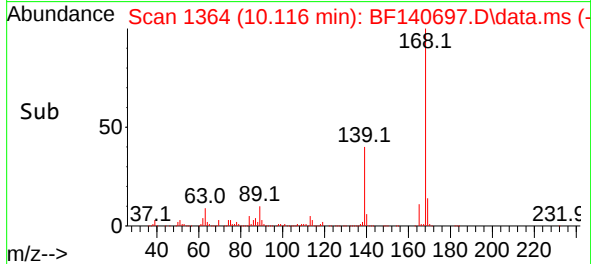
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:168 Resp: 708430  
Ion Ratio Lower Upper  
168 100  
139 39.8 31.3 46.9  
169 13.5 10.5 15.7

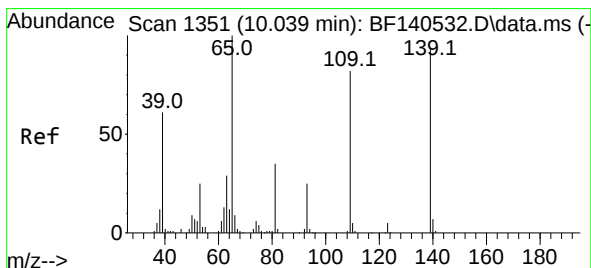
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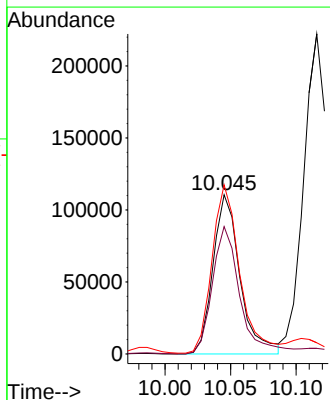
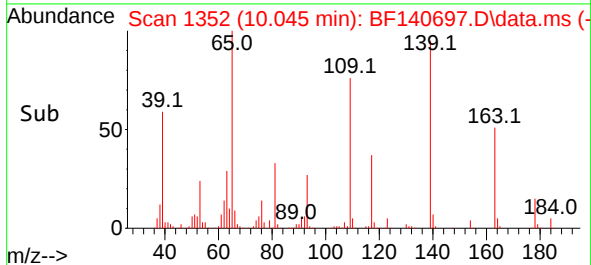
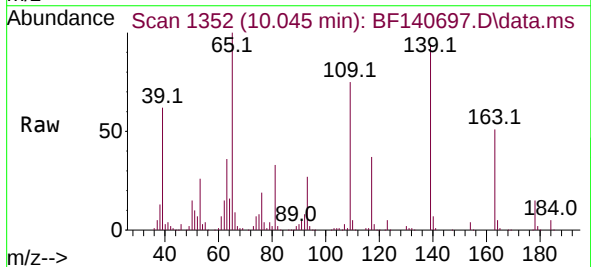
12/03/2024  
Supervised By :mohammad  
ahmed

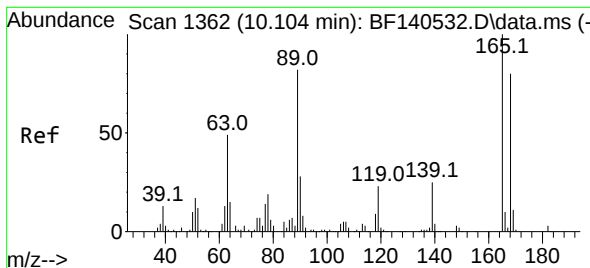
12/05/2024



#56  
4-Nitrophenol  
Concen: 86.045 ng  
RT: 10.045 min Scan# 1352  
Delta R.T. 0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

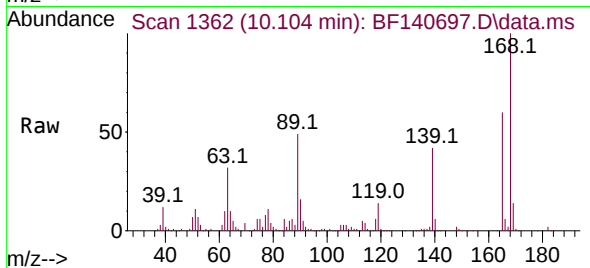
Tgt Ion:139 Resp: 158869  
Ion Ratio Lower Upper  
139 100  
109 80.0 68.4 108.4  
65 106.2 88.6 128.6





#57  
2,4-Dinitrotoluene  
Concen: 46.771 ng  
RT: 10.104 min Scan# 1362  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

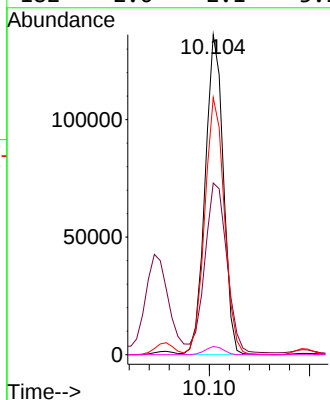
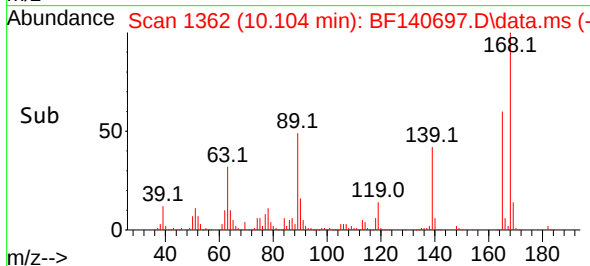
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:165 Resp: 17206  
Ion Ratio Lower Upper  
165 100  
63 53.7 41.7 62.5  
89 80.4 65.8 98.8  
182 2.6 2.1 3.1

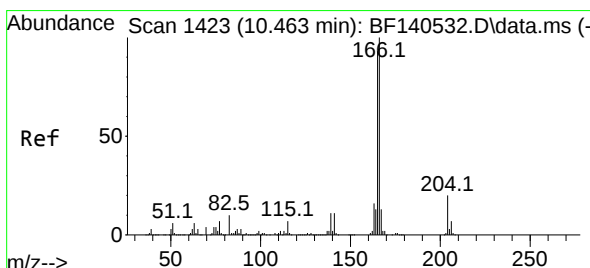
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Upadhyay



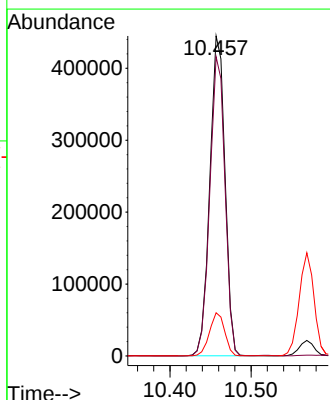
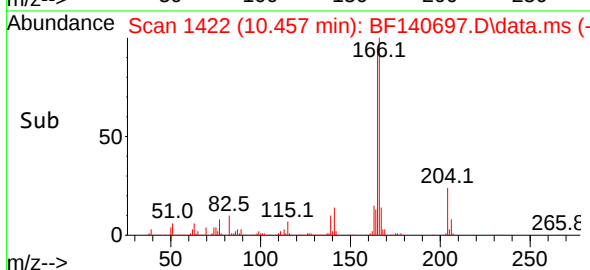
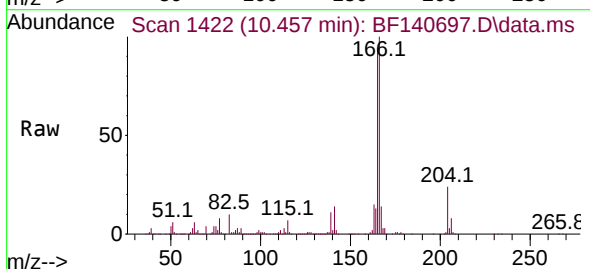
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Supervised By :mohammad  
ahmed

12/05/2024



#58  
Fluorene  
Concen: 46.733 ng  
RT: 10.457 min Scan# 1422  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

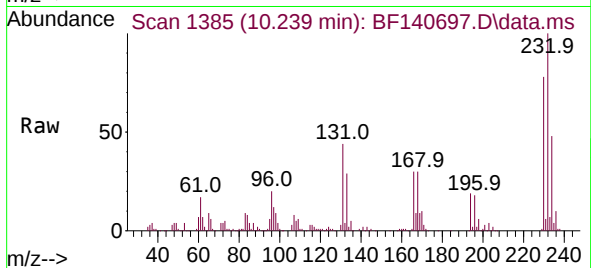
Tgt Ion:166 Resp: 575880  
Ion Ratio Lower Upper  
166 100  
165 93.5 74.6 111.8  
167 13.5 10.6 16.0





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 51.290 ng  
RT: 10.239 min Scan# 1385  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

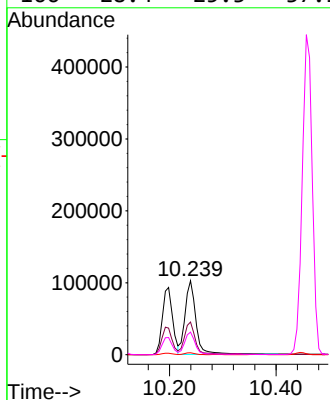
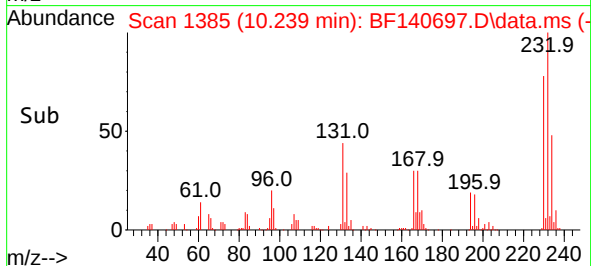
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:232 Resp: 145630  
Ion Ratio Lower Upper  
232 100  
131 43.1 39.6 59.4  
130 2.4 1.9 2.9  
166 28.4 25.3 37.9

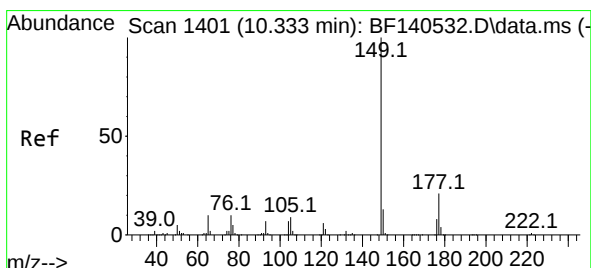
Manual Integrations  
APPROVED

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Upadhyay



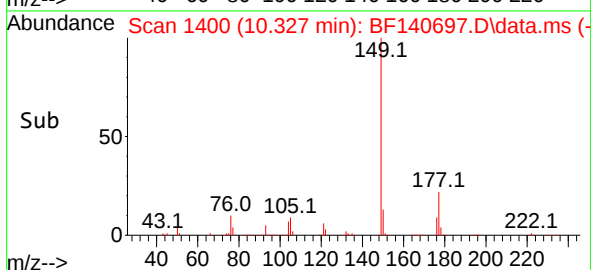
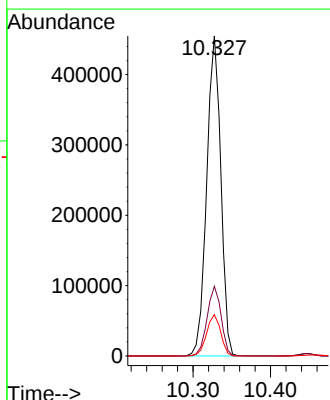
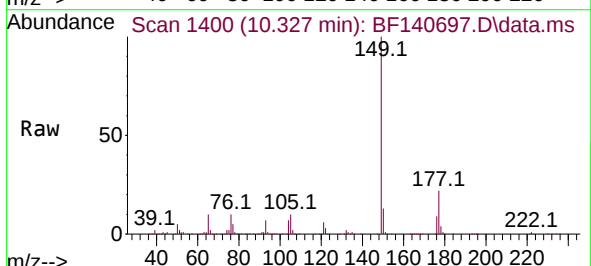
12/03/2024  
Supervised By :mohammad  
ahmed

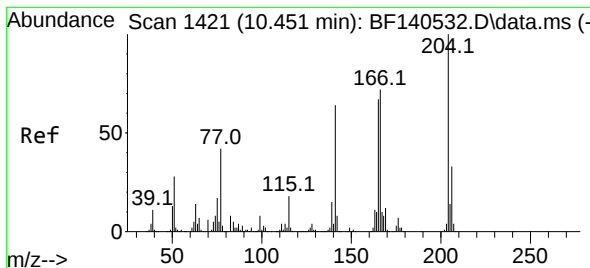
12/05/2024



#60  
Diethylphthalate  
Concen: 46.382 ng  
RT: 10.327 min Scan# 1400  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

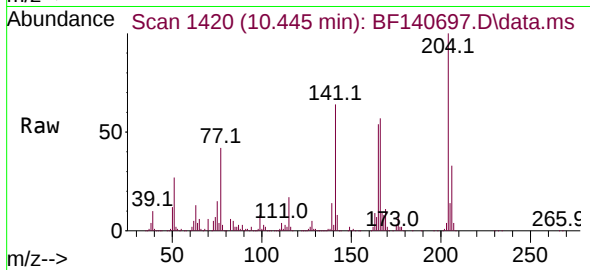
Tgt Ion:149 Resp: 575157  
Ion Ratio Lower Upper  
149 100  
177 21.8 17.1 25.7  
150 12.9 10.1 15.1





#61  
4-Chlorophenyl-phenylether  
Concen: 46.064 ng  
RT: 10.445 min Scan# 1421  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

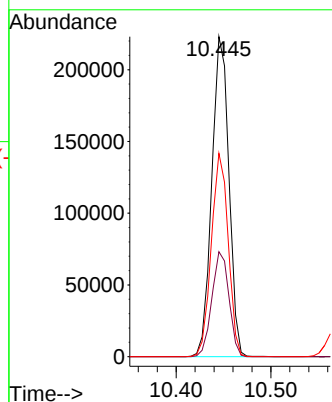
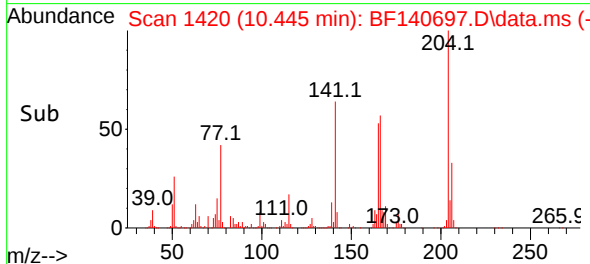
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:204 Resp: 27857  
Ion Ratio Lower Upper  
204 100  
206 32.8 26.6 40.0  
141 63.5 51.1 76.7

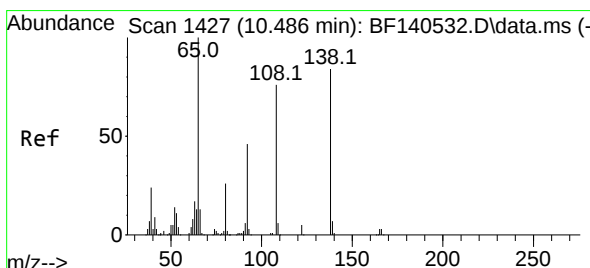
Manual Integrations  
APPROVED

Reviewed By :Jagrut  
Upadhyay



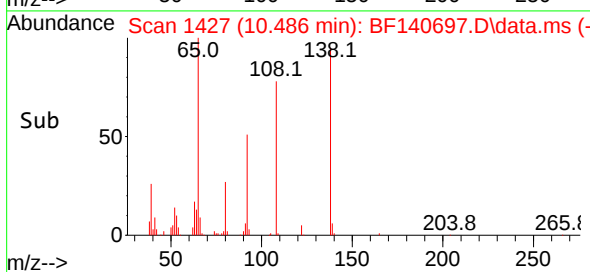
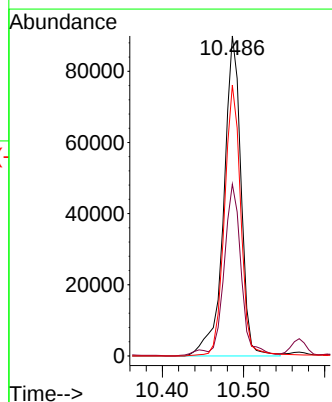
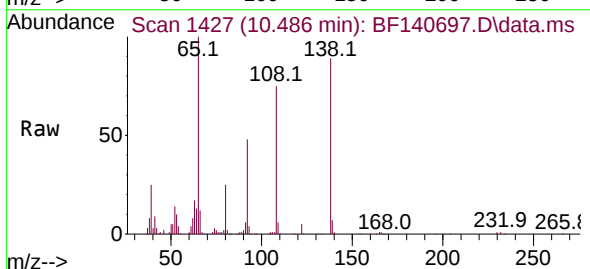
12/03/2024  
Supervised By :mohammad  
ahmed

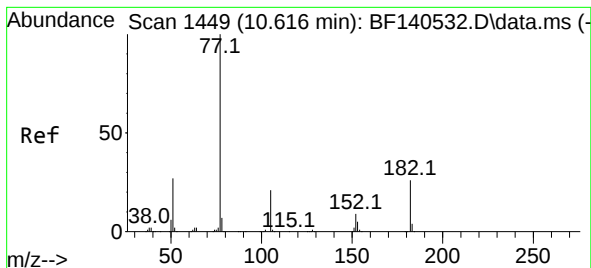
12/05/2024



#62  
4-Nitroaniline  
Concen: 46.954 ng  
RT: 10.486 min Scan# 1427  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

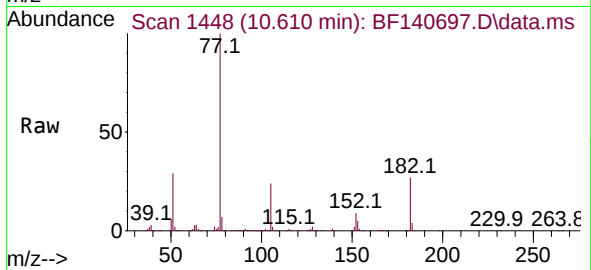
Tgt Ion:138 Resp: 133321  
Ion Ratio Lower Upper  
138 100  
92 53.7 34.5 74.5  
108 84.6 70.6 110.6





#63  
Azobenzene  
Concen: 50.701 ng  
RT: 10.610 min Scan# 1449  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

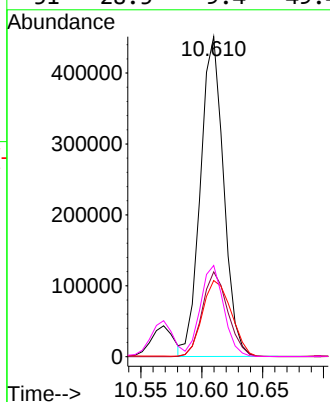
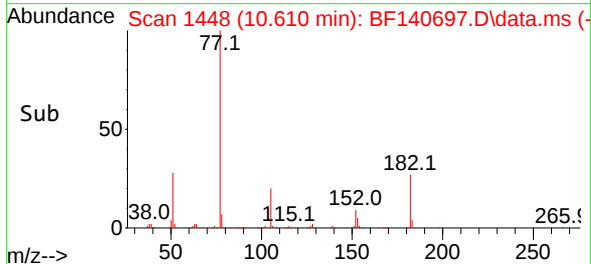
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion: 77 Resp: 59538  
Ion Ratio Lower Upper  
77 100  
182 26.5 5.3 45.3  
105 23.8 0.3 40.3  
51 28.5 9.4 49.4

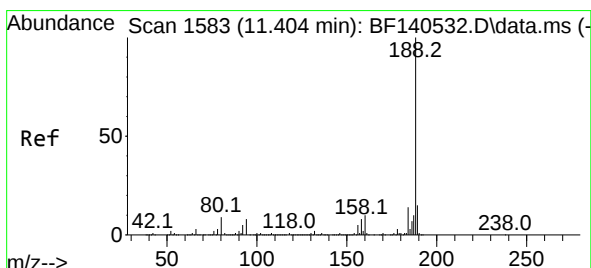
Manual Integrations  
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Reviewed By :Jagrut  
Upadhyay

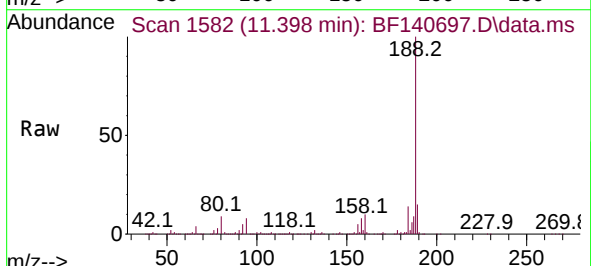


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Supervised By :mohammad  
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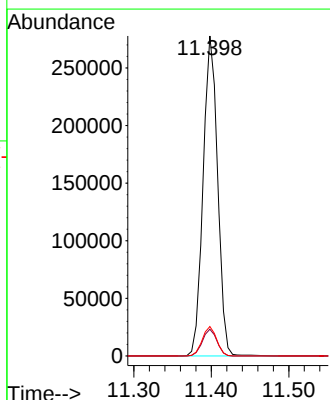
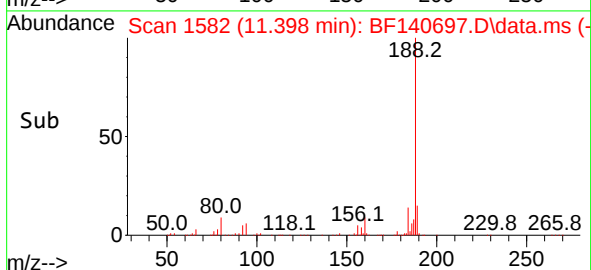
12/05/2024

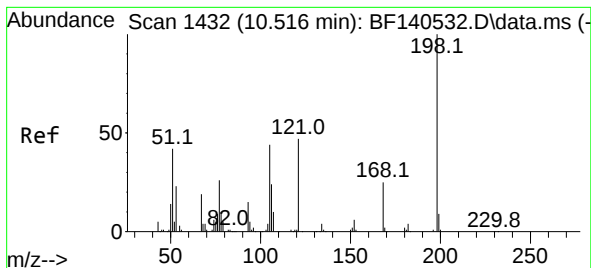


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.398 min Scan# 1582  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57



Tgt Ion:188 Resp: 361245  
Ion Ratio Lower Upper  
188 100  
94 8.4 6.4 9.6  
80 9.2 6.9 10.3





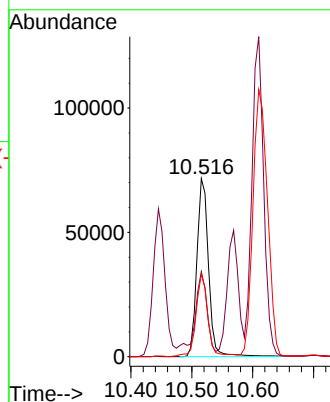
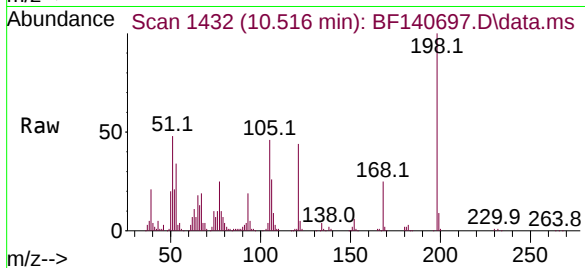
#65  
4,6-Dinitro-2-methylphenol  
Concen: 51.716 ng  
RT: 10.516 min Scan# 1432  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS

Tgt Ion:198 Resp: 9546  
Ion Ratio Lower Upper  
198 100  
51 47.8 29.4 69.4  
105 46.4 25.4 65.4

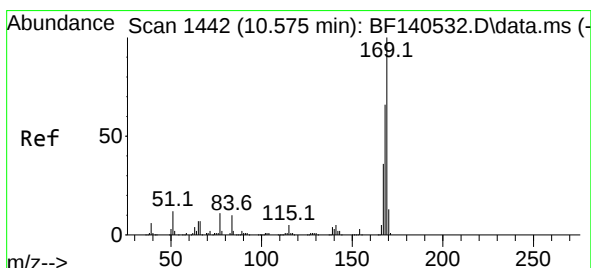
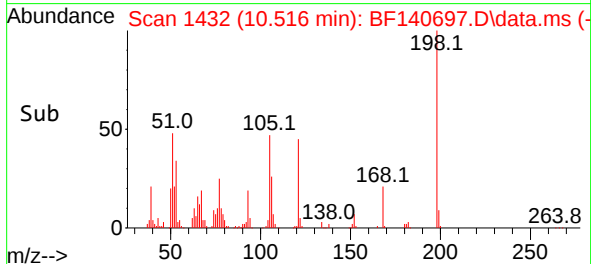
Manual Integrations  
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Upadhyay



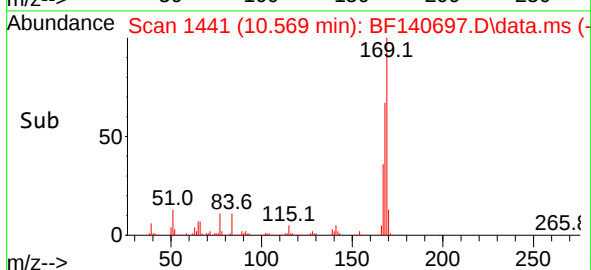
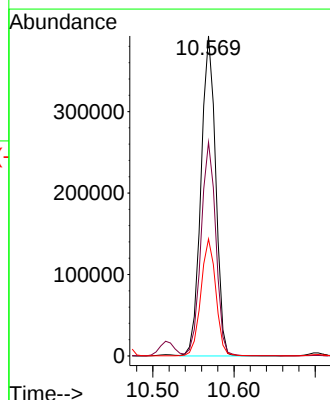
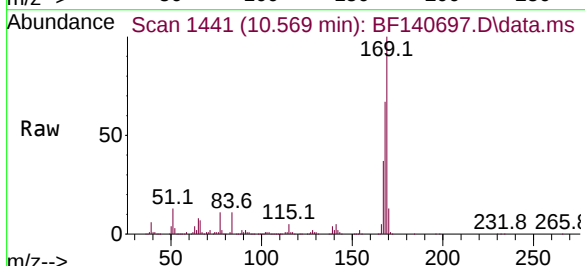
12/03/2024  
Supervised By :mohammad  
ahmed

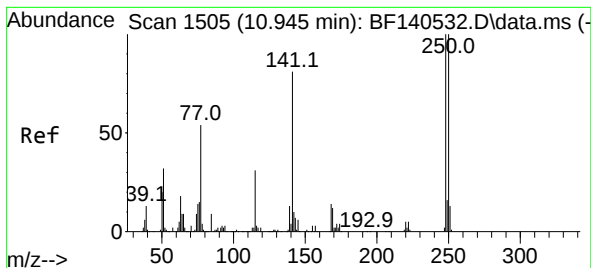
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#66  
n-Nitrosodiphenylamine  
Concen: 46.318 ng  
RT: 10.569 min Scan# 1441  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

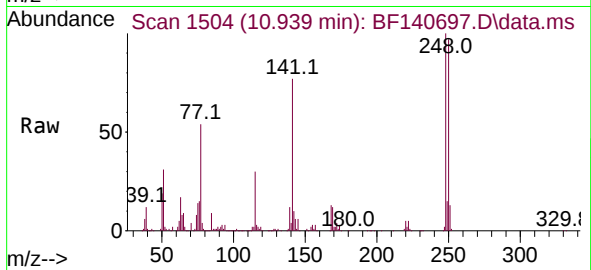
Tgt Ion:169 Resp: 494813  
Ion Ratio Lower Upper  
169 100  
168 66.8 53.2 79.8  
167 36.5 29.0 43.6





#67  
4-Bromophenyl-phenylether  
Concen: 45.281 ng  
RT: 10.939 min Scan# 1504  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

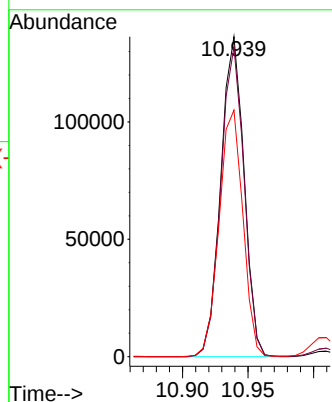
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:248 Resp: 168450  
Ion Ratio Lower Upper  
248 100  
250 96.8 79.8 119.8  
141 77.0 64.7 97.1

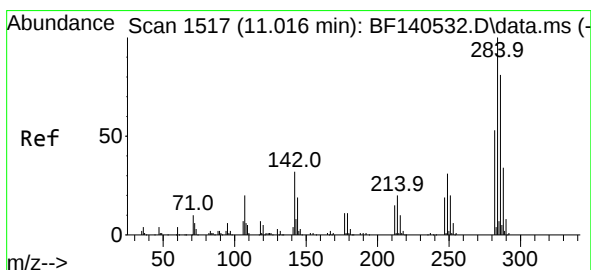
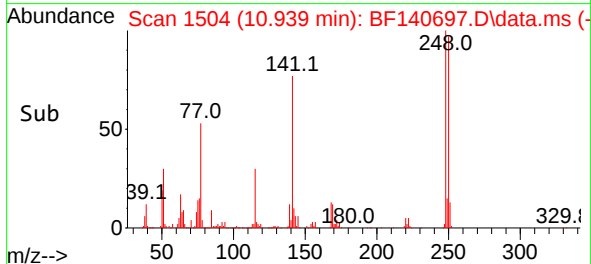
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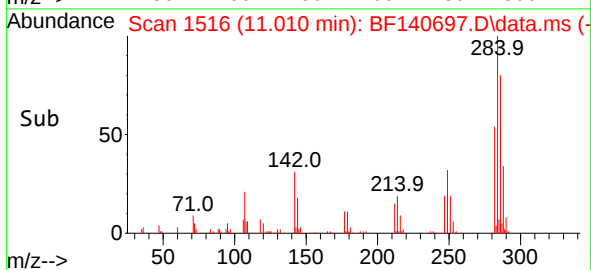
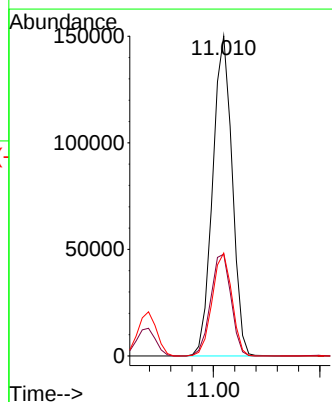
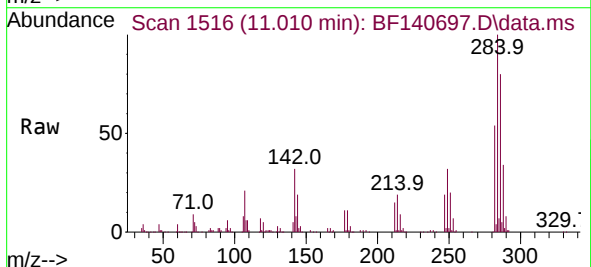
12/03/2024  
Supervised By :mohammad  
ahmed

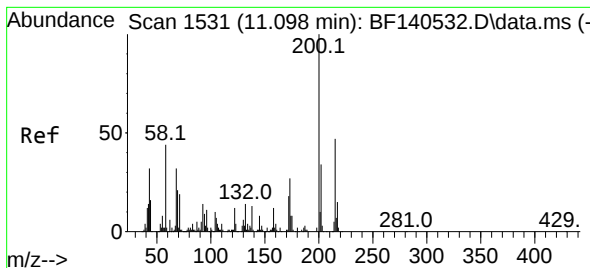
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#68  
Hexachlorobenzene  
Concen: 44.164 ng  
RT: 11.010 min Scan# 1516  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion:284 Resp: 190245  
Ion Ratio Lower Upper  
284 100  
142 31.8 25.3 37.9  
249 32.2 24.8 37.2





#69

Atrazine

Concen: 55.262 ng

RT: 11.098 min Scan# 1531

Delta R.T. -0.000 min

Lab File: BF140697.D

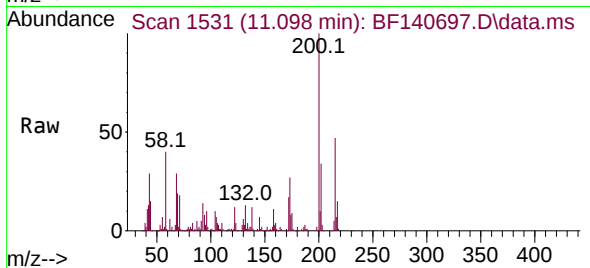
Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

ClientSampleId :

SOIL-1-HAMMS

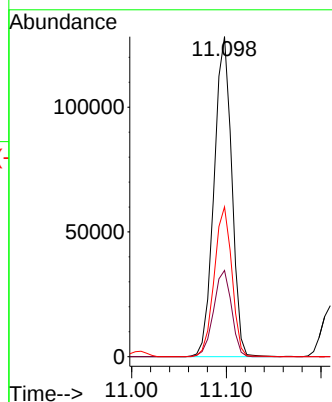


Tgt Ion:200 Resp: 166080

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 200 | 100   |       |       |
| 173 | 26.9  | 7.0   | 47.0  |
| 215 | 46.8  | 26.7  | 66.7  |

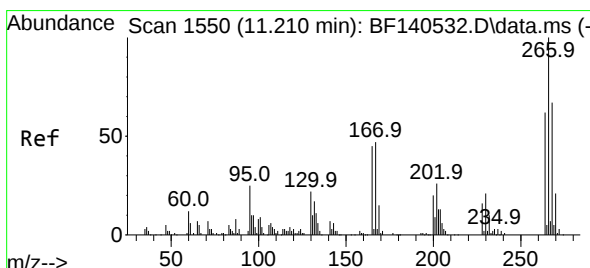
Manual Integrations  
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#70

Pentachlorophenol

Concen: 85.530 ng

RT: 11.210 min Scan# 1550

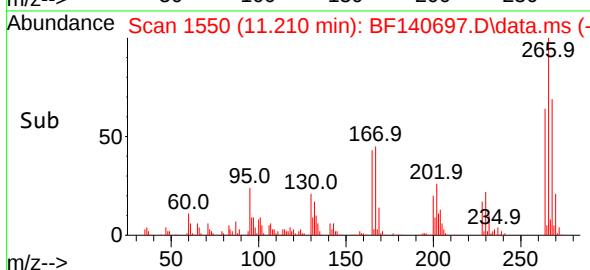
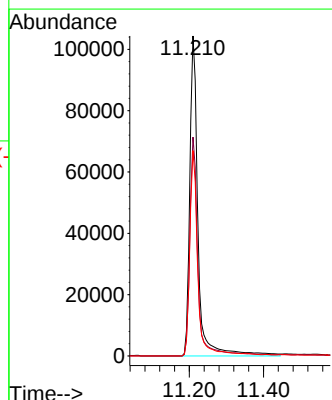
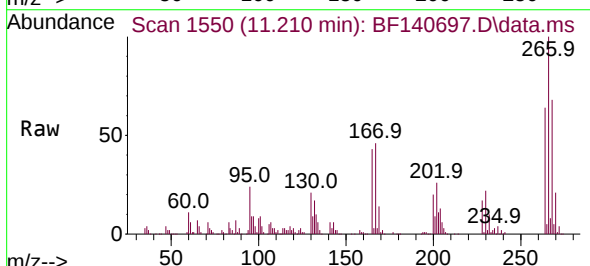
Delta R.T. -0.000 min

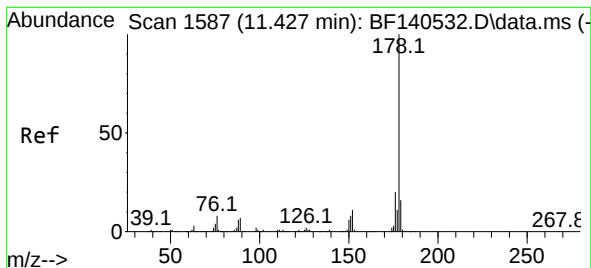
Lab File: BF140697.D

Acq: 02 Dec 2024 18:57

Tgt Ion:266 Resp: 162158

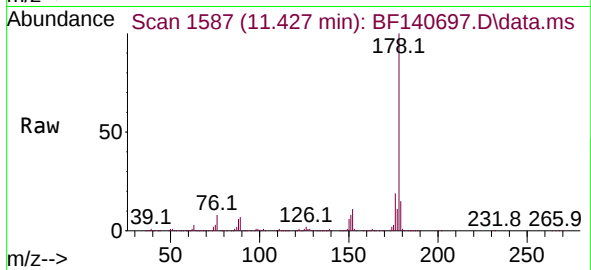
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 266 | 100   |       |       |
| 268 | 68.4  | 53.7  | 80.5  |
| 264 | 64.2  | 49.8  | 74.8  |





#71  
Phenanthrene  
Concen: 47.378 ng  
RT: 11.427 min Scan# 1587  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

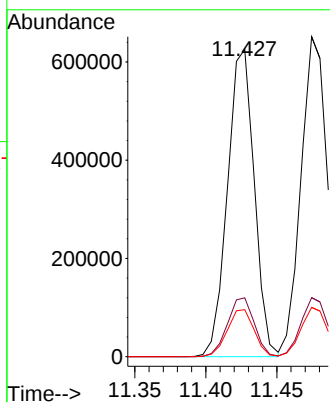
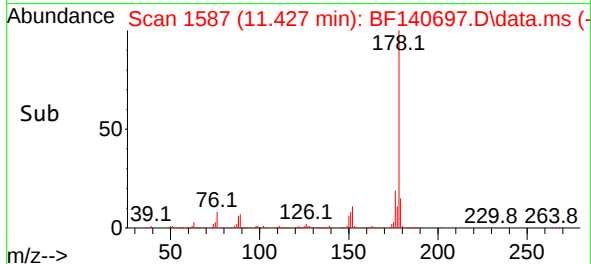
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:178 Resp: 822711  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.8 23.6  
179 15.3 12.4 18.6

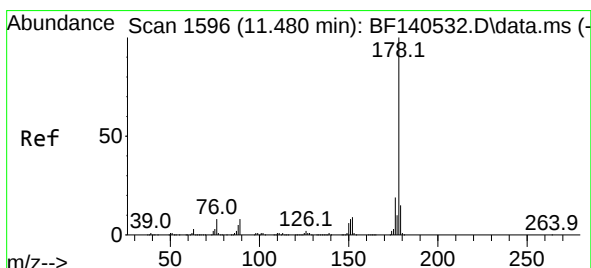
Manual Integrations  
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Upadhyay

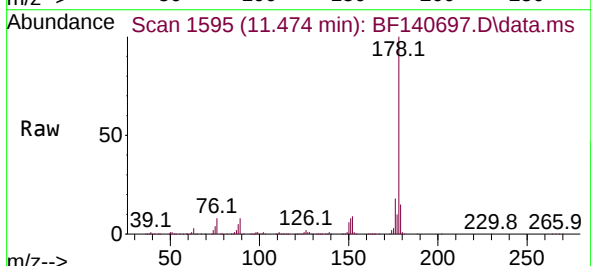


12/03/2024  
Supervised By :mohammad  
ahmed

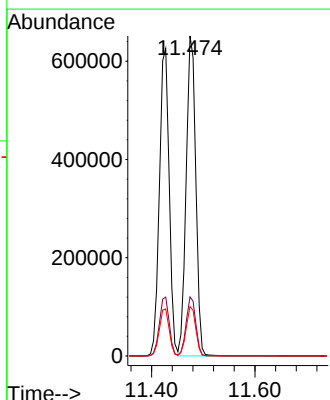
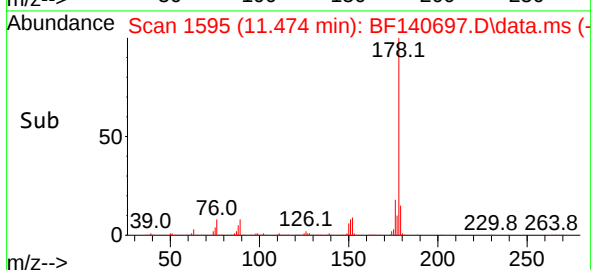
12/05/2024

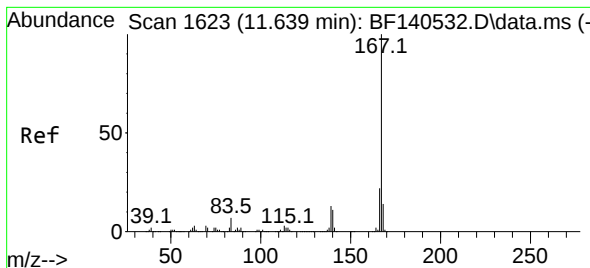


#72  
Anthracene  
Concen: 49.617 ng  
RT: 11.474 min Scan# 1595  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57



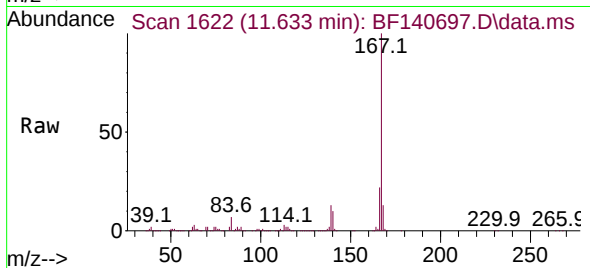
Tgt Ion:178 Resp: 842789  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.0 22.4  
179 15.4 12.2 18.4





#73  
 Carbazole  
 Concen: 47.760 ng  
 RT: 11.633 min Scan# 1622  
 Delta R.T. -0.006 min  
 Lab File: BF140697.D  
 Acq: 02 Dec 2024 18:57

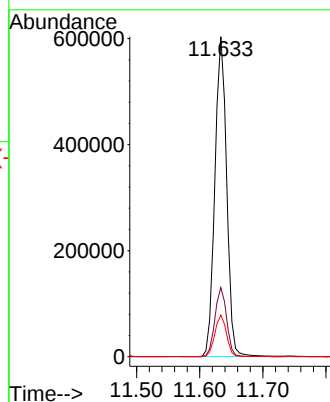
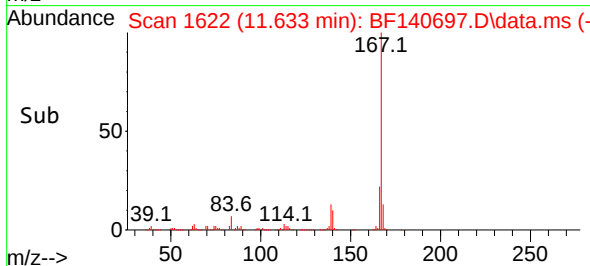
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOIL-1-HAMMS



Tgt Ion:167 Resp: 780430  
 Ion Ratio Lower Upper  
 167 100  
 166 21.6 17.2 25.8  
 139 13.0 10.6 15.8

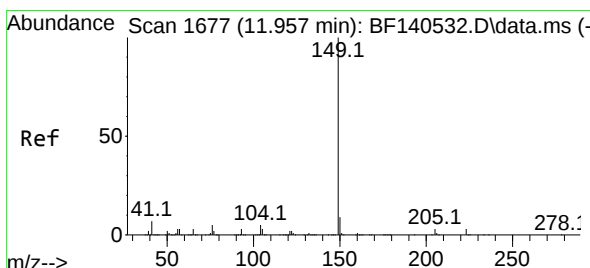
Manual Integrations  
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 Upadhyay

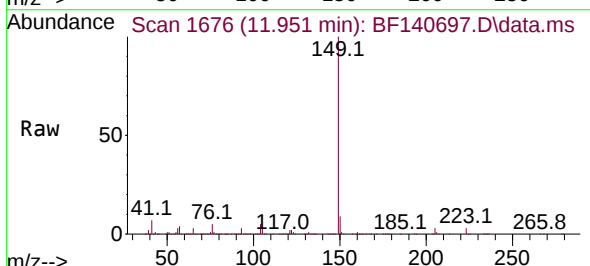


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 Supervised By :mohammad  
 ahmed

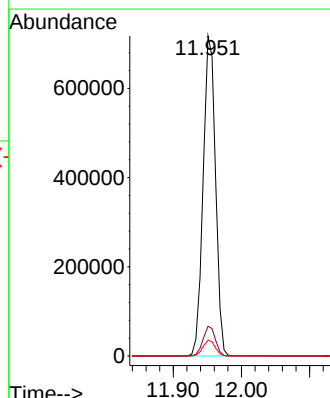
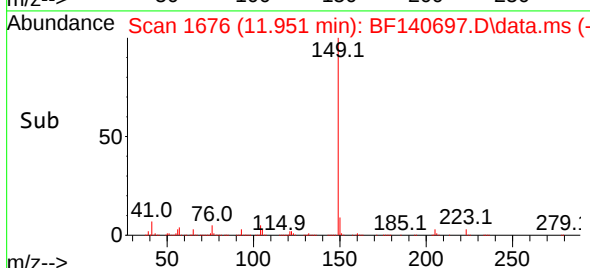
12/05/2024

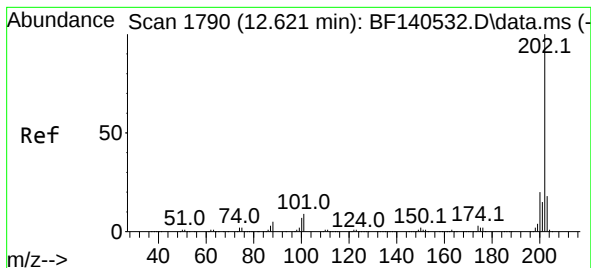


#74  
 Di-n-butylphthalate  
 Concen: 48.014 ng  
 RT: 11.951 min Scan# 1676  
 Delta R.T. -0.006 min  
 Lab File: BF140697.D  
 Acq: 02 Dec 2024 18:57



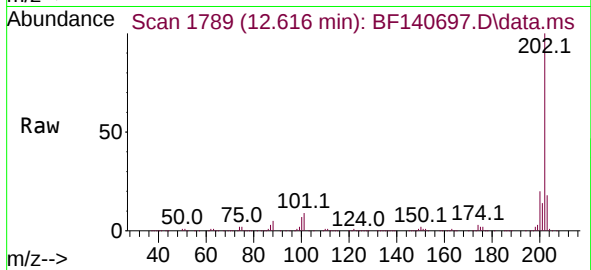
Tgt Ion:149 Resp: 905796  
 Ion Ratio Lower Upper  
 149 100  
 150 9.3 7.5 11.3  
 104 5.0 4.1 6.1





#75  
Fluoranthene  
Concen: 48.052 ng  
RT: 12.616 min Scan# 1789  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

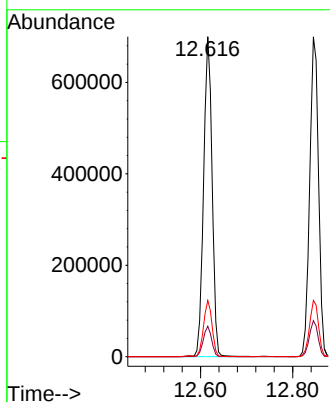
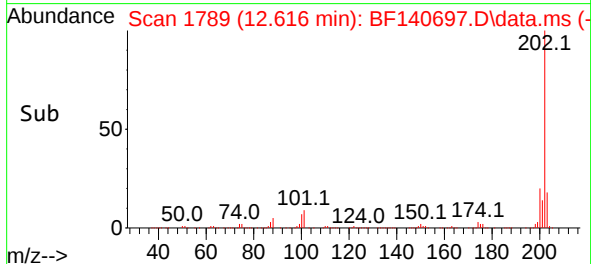
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:202 Resp: 905950  
Ion Ratio Lower Upper  
202 100  
101 9.5 0.0 28.9  
203 17.5 0.0 37.6

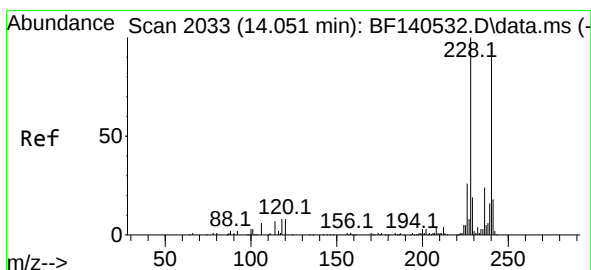
Manual Integrations  
APPROVED

Reviewed By :Jagrut  
Upadhyay



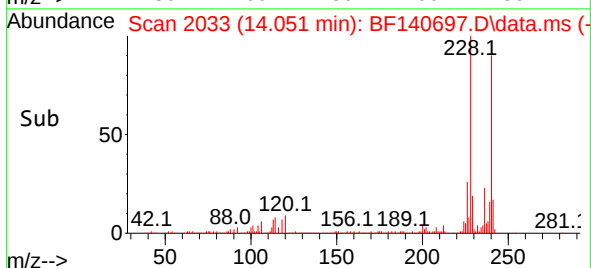
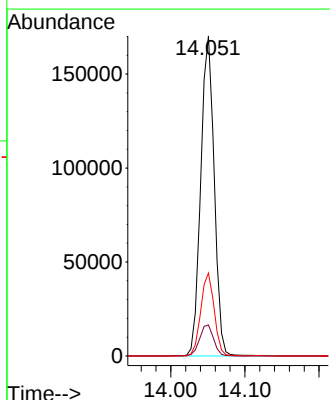
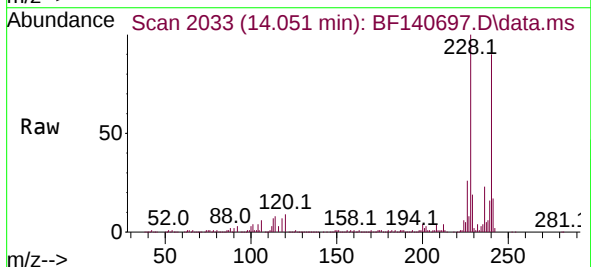
12/03/2024  
Supervised By :mohammad  
ahmed

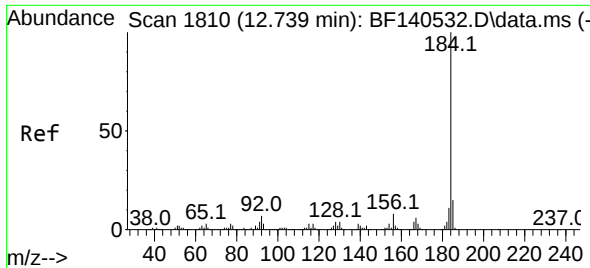
12/05/2024



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.051 min Scan# 2033  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

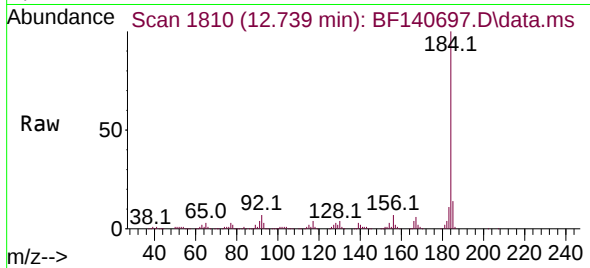
Tgt Ion:240 Resp: 215378  
Ion Ratio Lower Upper  
240 100  
120 9.7 7.3 10.9  
236 25.9 20.6 31.0





#77  
Benzidine  
Concen: 33.553 ng  
RT: 12.739 min Scan# 1810  
Delta R.T. 0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

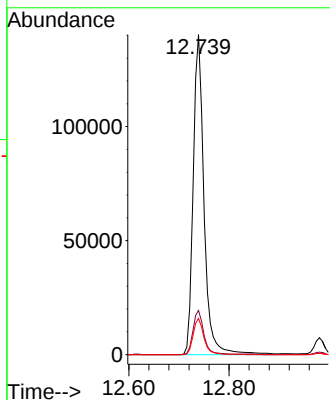
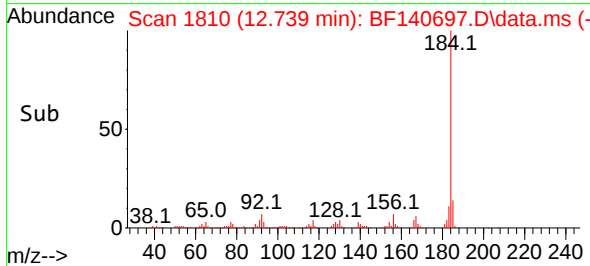
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:184 Resp: 21011  
Ion Ratio Lower Upper  
184 100  
185 13.8 11.7 17.5  
183 11.4 8.8 13.2

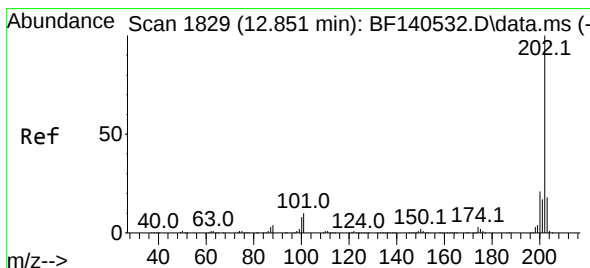
Manual Integrations  
APPROVED

Reviewed By :Jagrut  
Upadhyay

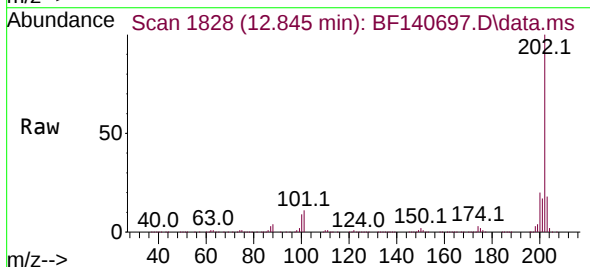


12/03/2024  
Supervised By :mohammad  
ahmed

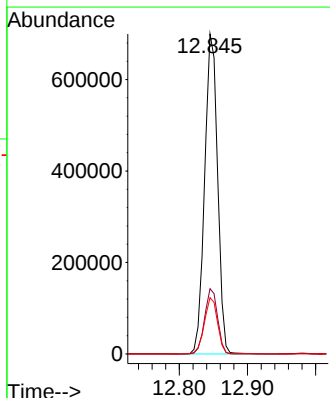
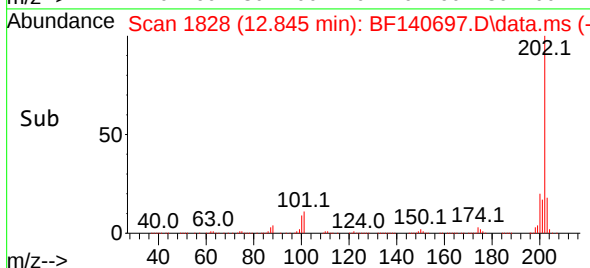
12/05/2024

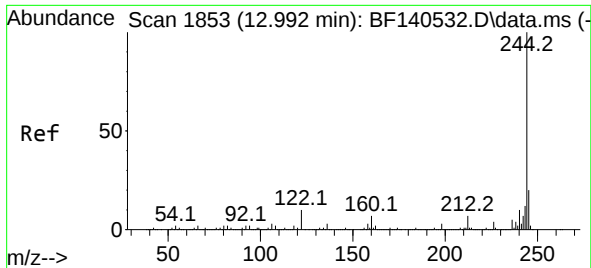


#78  
Pyrene  
Concen: 46.400 ng  
RT: 12.845 min Scan# 1828  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57



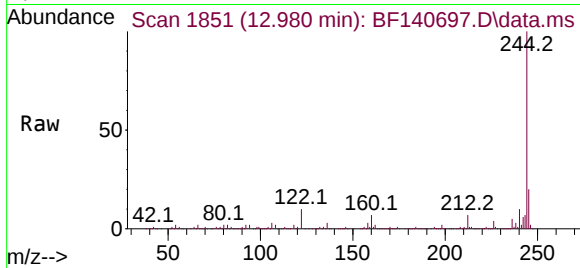
Tgt Ion:202 Resp: 924020  
Ion Ratio Lower Upper  
202 100  
200 20.4 16.5 24.7  
203 17.6 14.2 21.4





#79  
Terphenyl-d14  
Concen: 47.099 ng  
RT: 12.980 min Scan# 1851  
Delta R.T. -0.012 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

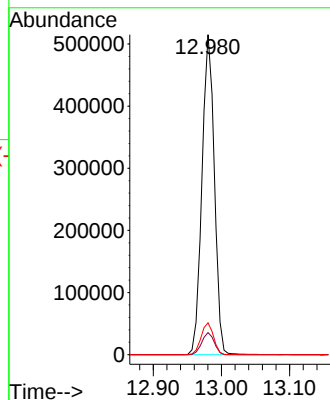
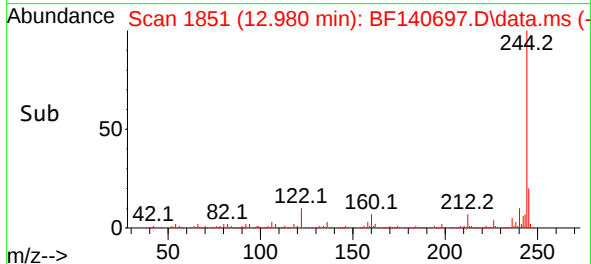
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:244 Resp: 65146  
Ion Ratio Lower Upper  
244 100  
212 6.9 5.8 8.8  
122 10.0 8.0 12.0

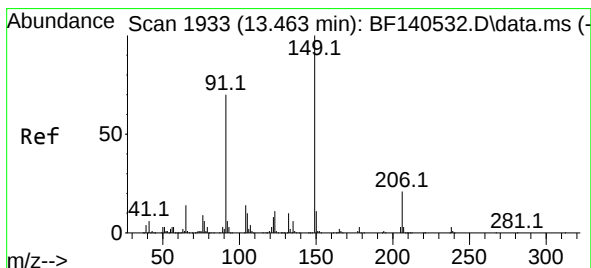
Manual Integrations  
APPROVED

Reviewed By :Jagrut  
Upadhyay



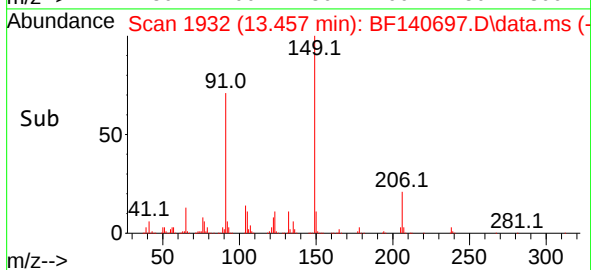
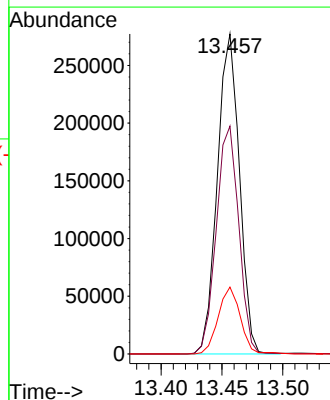
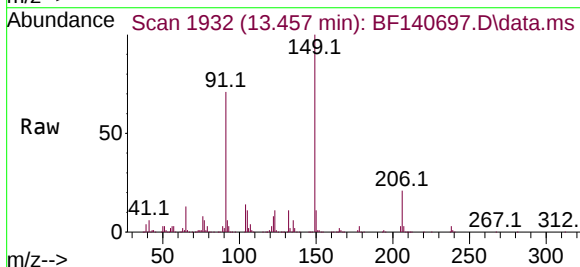
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Supervised By :mohammad  
ahmed

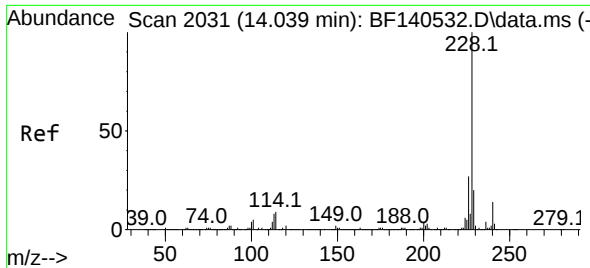
12/05/2024



#80  
Butylbenzylphthalate  
Concen: 48.856 ng  
RT: 13.457 min Scan# 1932  
Delta R.T. -0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion:149 Resp: 350493  
Ion Ratio Lower Upper  
149 100  
91 71.2 56.2 84.2  
206 20.9 16.4 24.6





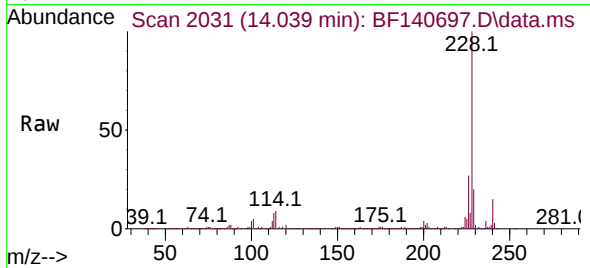
#81  
Benzo(a)anthracene  
Concen: 48.429 ng  
RT: 14.039 min Scan# 2031  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

ClientSampleId :

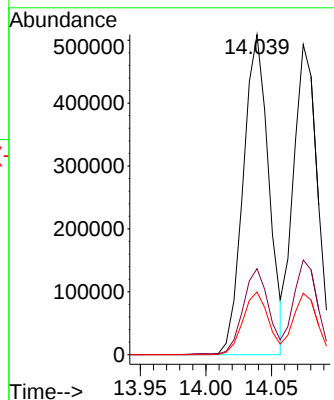
SOIL-1-HAMMS



Tgt Ion:228 Resp: 69046  
Ion Ratio Lower Upper  
228 100  
226 26.9 21.8 32.8  
229 19.6 15.8 23.6

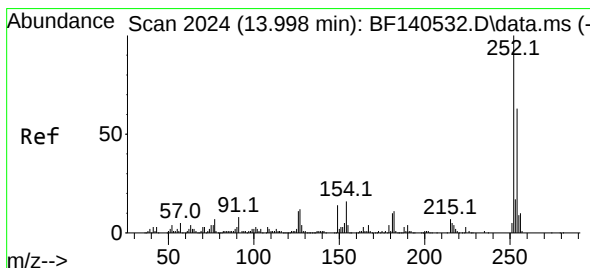
Manual Integrations  
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Upadhyay



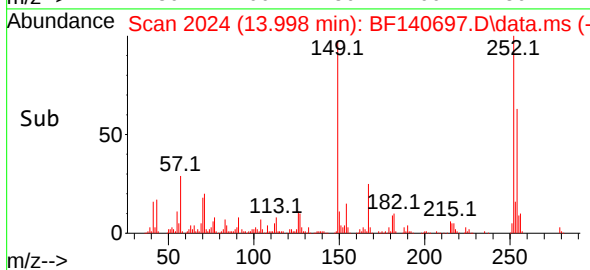
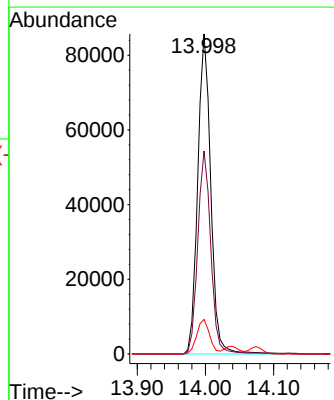
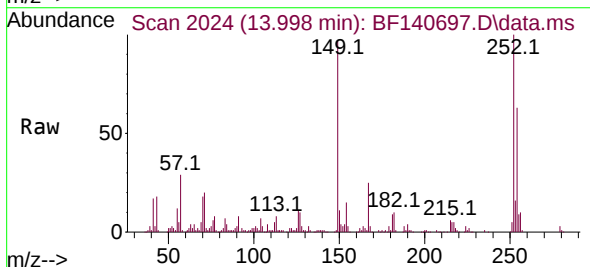
12/03/2024  
Supervised By :mohammad  
ahmed

12/05/2024



#82  
3,3'-Dichlorobenzidine  
Concen: 26.542 ng  
RT: 13.998 min Scan# 2024  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion:252 Resp: 113614  
Ion Ratio Lower Upper  
252 100  
254 63.4 50.8 76.2  
126 10.8 8.6 13.0





#83

Chrysene

Concen: 47.836 ng

RT: 14.074 min Scan# 2038

Delta R.T. -0.006 min

Lab File: BF140697.D

Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

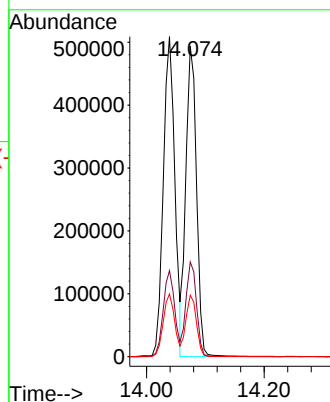
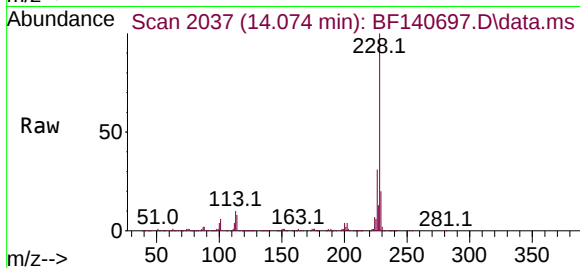
ClientSampleId :

SOIL-1-HAMMS

|             |             |
|-------------|-------------|
| Tgt Ion:228 | Resp: 62361 |
| Ion Ratio   | Lower Upper |
| 228 100     |             |
| 226 30.5    | 24.4 36.6   |
| 229 19.8    | 15.8 23.6   |

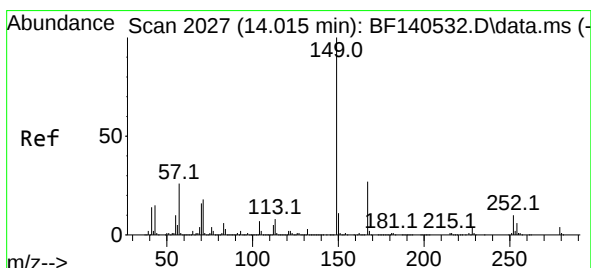
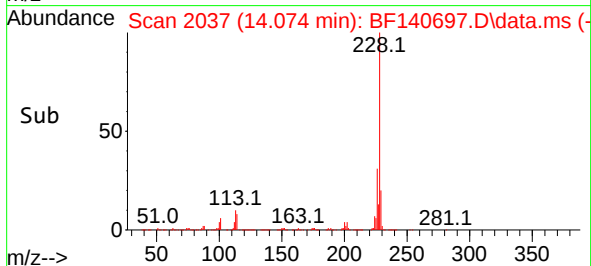
Manual Integrations  
APPROVED

Reviewed By :Jagrut  
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Supervised By :mohammad  
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#84

Bis(2-ethylhexyl)phthalate

Concen: 50.315 ng

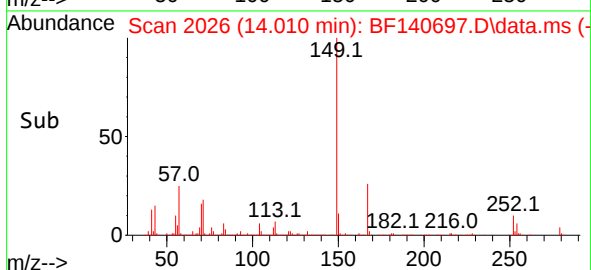
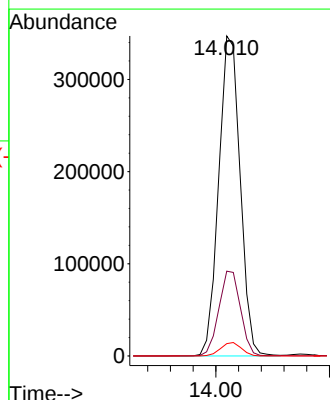
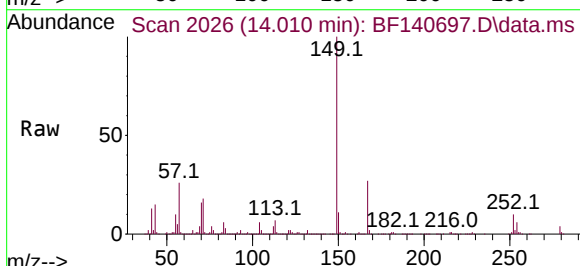
RT: 14.010 min Scan# 2026

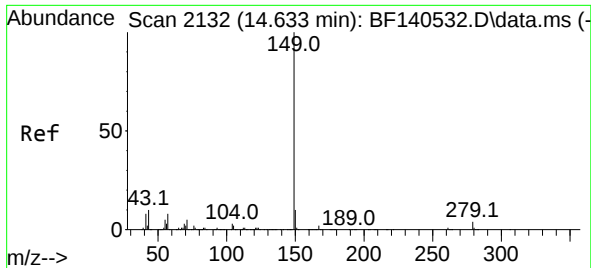
Delta R.T. -0.006 min

Lab File: BF140697.D

Acq: 02 Dec 2024 18:57

|             |              |
|-------------|--------------|
| Tgt Ion:149 | Resp: 455784 |
| Ion Ratio   | Lower Upper  |
| 149 100     |              |
| 167 26.5    | 21.2 31.8    |
| 279 3.9     | 3.2 4.8      |





#85  
Di-n-octyl phthalate  
Concen: 51.855 ng  
RT: 14.633 min Scan# 2132  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

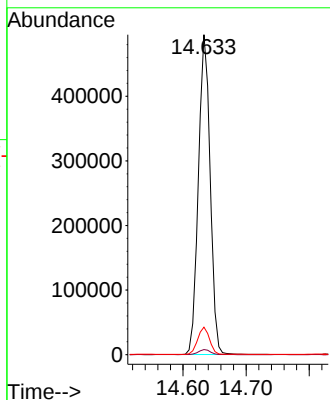
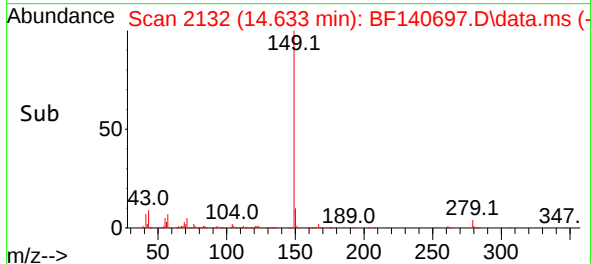
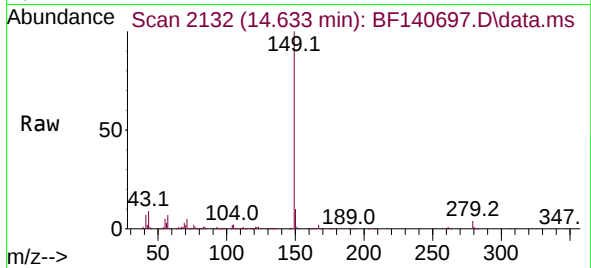
ClientSampleId :

SOIL-1-HAMMS

Tgt Ion:149 Resp: 641952  
Ion Ratio Lower Upper  
149 100  
167 1.7 1.3 1.9  
43 8.6 7.7 11.5

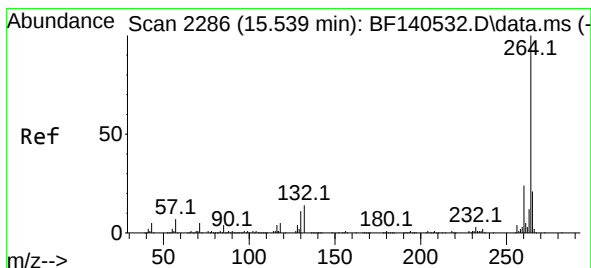
Manual Integrations  
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Upadhyay



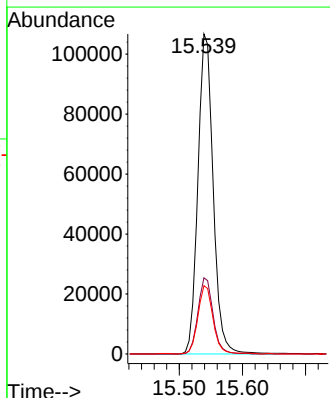
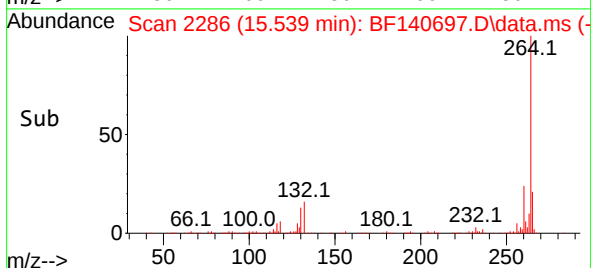
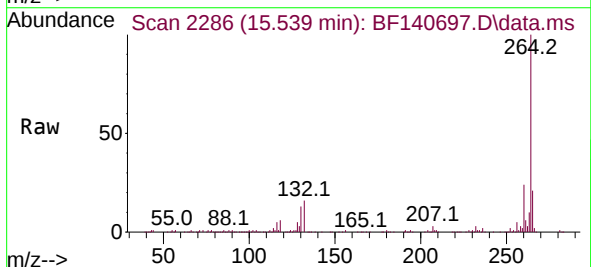
12/03/2024  
Supervised By :mohammad  
ahmed

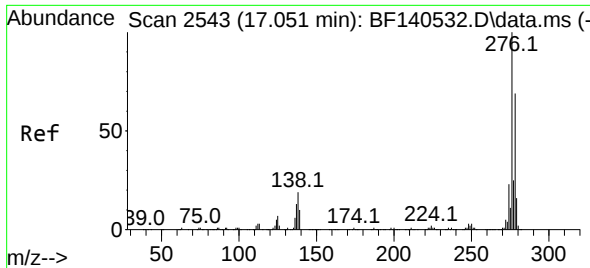
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#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.539 min Scan# 2286  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion:264 Resp: 179173  
Ion Ratio Lower Upper  
264 100  
260 23.8 19.0 28.6  
265 21.4 16.6 25.0





#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 48.064 ng  
 RT: 17.056 min Scan# 2112  
 Delta R.T. 0.006 min  
 Lab File: BF140697.D  
 Acq: 02 Dec 2024 18:57

Instrument :

BNA\_F

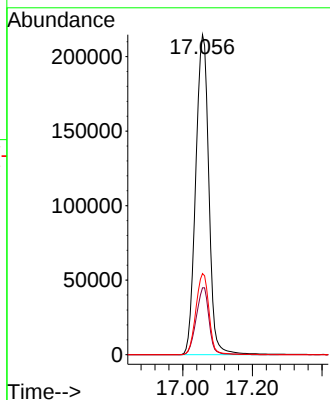
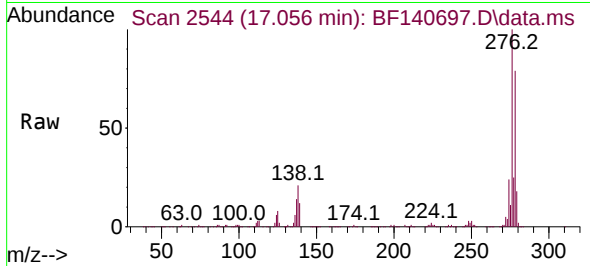
ClientSampleId :

SOIL-1-HAMMS

Tgt Ion:276 Resp: 56122  
 Ion Ratio Lower Upper  
 276 100  
 138 20.5 15.5 23.3  
 277 25.2 20.1 30.1

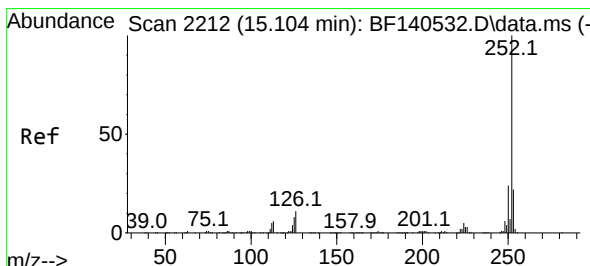
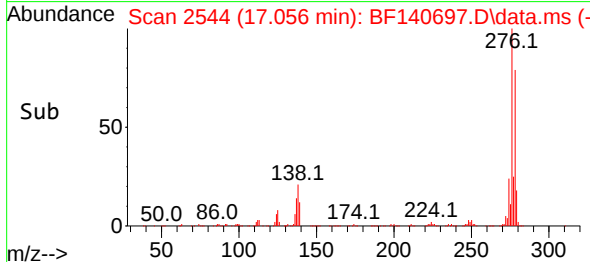
Manual Integrations  
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Reviewed By :Jagrut  
 Upadhyay



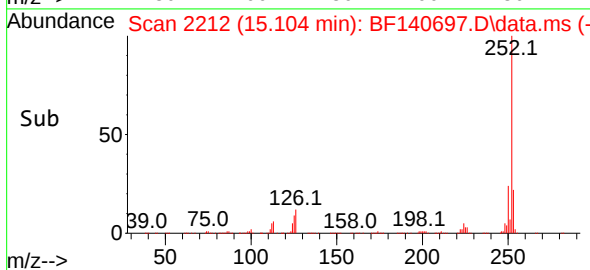
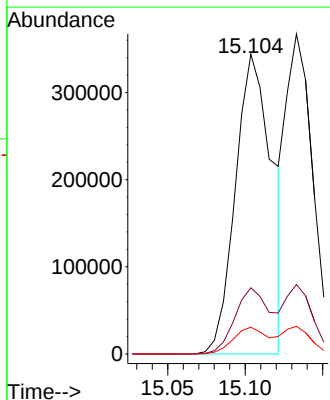
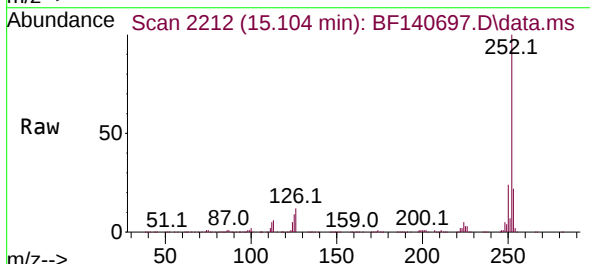
12/03/2024  
 Supervised By :mohammad  
 ahmed

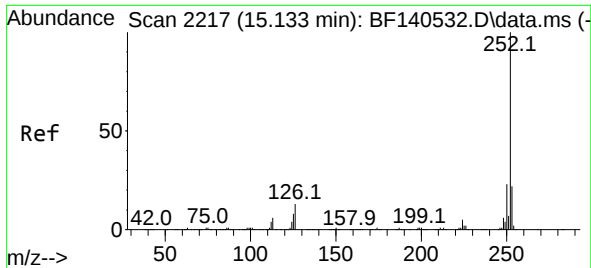
12/05/2024



#88  
 Benzo(b)fluoranthene  
 Concen: 50.108 ng  
 RT: 15.104 min Scan# 2212  
 Delta R.T. -0.000 min  
 Lab File: BF140697.D  
 Acq: 02 Dec 2024 18:57

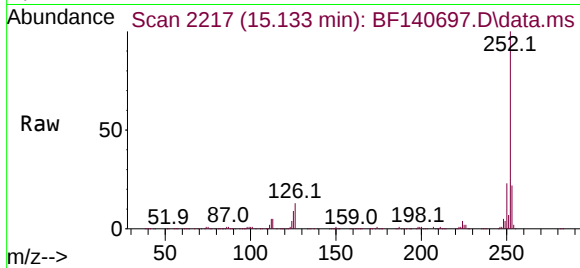
Tgt Ion:252 Resp: 563925  
 Ion Ratio Lower Upper  
 252 100  
 253 22.1 17.2 25.8  
 125 8.9 6.7 10.1





#89  
Benzo(k)fluoranthene  
Concen: 45.449 ng  
RT: 15.133 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

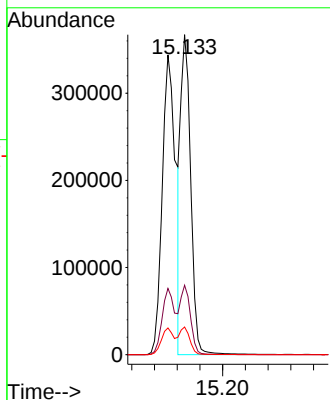
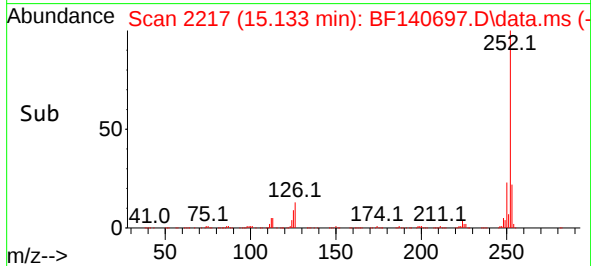
Instrument :  
BNA\_F  
ClientSampleId :  
SOIL-1-HAMMS



Tgt Ion:252 Resp: 447597  
Ion Ratio Lower Upper  
252 100  
253 21.7 17.5 26.3  
125 8.7 6.5 9.7

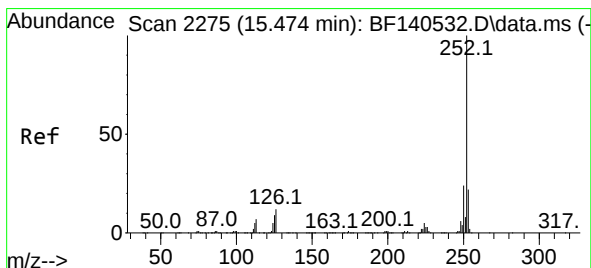
Manual Integrations  
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Upadhyay

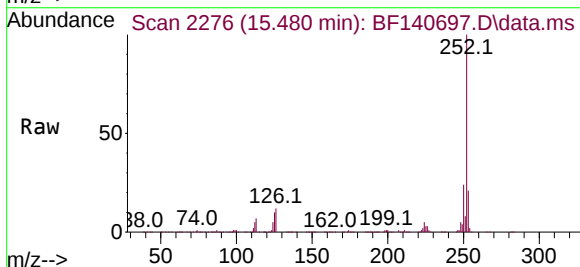


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Supervised By :mohammad  
ahmed

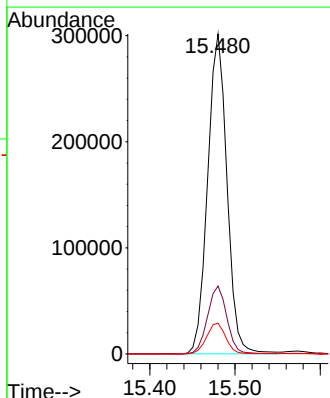
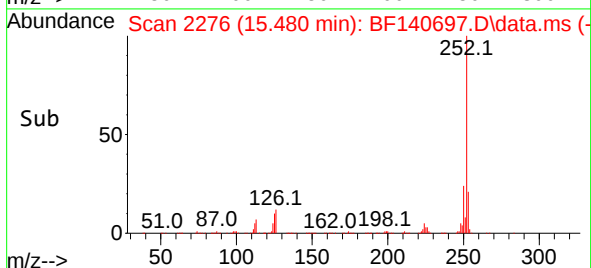
12/05/2024

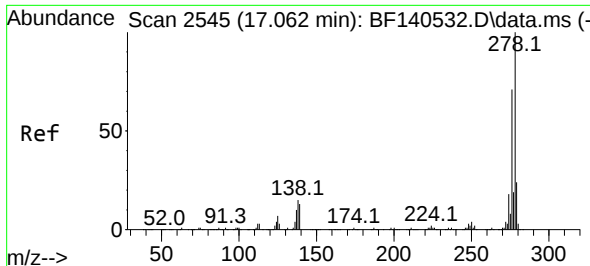


#90  
Benzo(a)pyrene  
Concen: 51.833 ng  
RT: 15.480 min Scan# 2276  
Delta R.T. 0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57



Tgt Ion:252 Resp: 474294  
Ion Ratio Lower Upper  
252 100  
253 21.2 17.3 25.9  
125 9.6 7.0 10.6





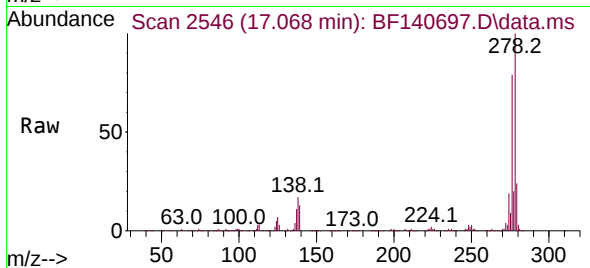
#91  
Dibenzo(a,h)anthracene  
Concen: 47.799 ng  
RT: 17.068 min Scan# 2545  
Delta R.T. 0.006 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Instrument :

BNL\_F

ClientSampleId :

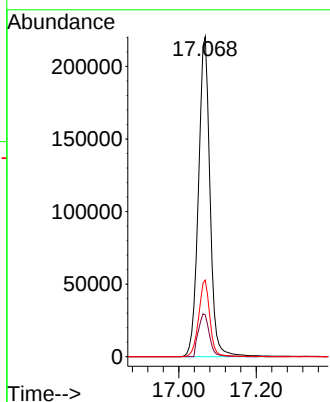
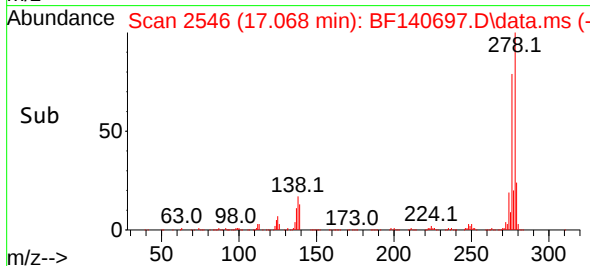
SOIL-1-HAMMS



Tgt Ion:278 Resp: 457088  
Ion Ratio Lower Upper  
278 100  
139 13.1 10.2 15.4  
279 23.9 18.9 28.3

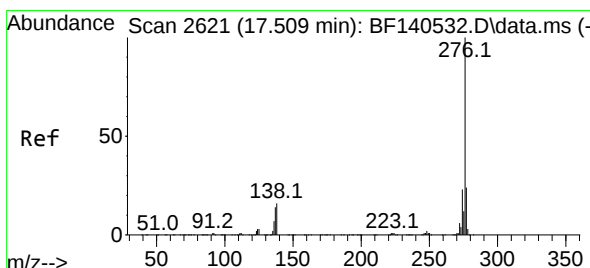
Manual Integrations  
APPROVED

Reviewed By :Jagrut  
Upadhyay



12/03/2024  
Supervised By :mohammad  
ahmed

12/05/2024



#92  
Benzo(g,h,i)perylene  
Concen: 43.889 ng  
RT: 17.509 min Scan# 2621  
Delta R.T. -0.000 min  
Lab File: BF140697.D  
Acq: 02 Dec 2024 18:57

Tgt Ion:276 Resp: 428277  
Ion Ratio Lower Upper  
276 100  
277 23.5 18.9 28.3  
138 18.8 13.2 19.8

