

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101623\  
 Data File : BF135774.D  
 Acq On : 16 Oct 2023 13:43  
 Operator : CG\JU  
 Sample : 04685-05MSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PP-20230928-B6A-0-7.5MSD

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 10/17/2023  
 Supervised By :mohammad ahmed 10/17/2023

Quant Time: Oct 17 01:30:42 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101323.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 17 01:22:00 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.740  | 152  | 96070    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.022  | 136  | 363107   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.781  | 164  | 187197   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.275 | 188  | 362184   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 13.945 | 240  | 186522   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.415 | 264  | 206780   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.381  | 112  | 649688   | 108.727 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.392  | 99   | 751622   | 100.812 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.310  | 82   | 473690   | 71.749  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.580 | 330  | 189278   | 105.371 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.098  | 172  | 847153   | 70.756  | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.869 | 244  | 871700   | 86.548  | ng    | -0.01    |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.499  | 88   | 140157   | 48.628  | ng    | 97       |
| 3) Pyridine                   | 3.246  | 79   | 324360   | 45.867  | ng    | 98       |
| 4) n-Nitrosodimethylamine     | 3.216  | 42   | 215105   | 56.562  | ng    | 97       |
| 6) Aniline                    | 6.404  | 93   | 286293   | 30.513  | ng    | # 39     |
| 8) 2-Chlorophenol             | 6.528  | 128  | 347621   | 53.947  | ng    | 96       |
| 9) Benzaldehyde               | 6.298  | 77   | 65910    | 15.532  | ng    | 99       |
| 10) Phenol                    | 6.410  | 94   | 412367   | 52.785  | ng    | # 80     |
| 11) bis(2-Chloroethyl)ether   | 6.481  | 93   | 335789   | 53.345  | ng    | 98       |
| 12) 1,3-Dichlorobenzene       | 6.675  | 146  | 351669   | 53.833  | ng    | 99       |
| 13) 1,4-Dichlorobenzene       | 6.757  | 146  | 361433   | 54.616  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 6.904  | 146  | 328156   | 55.073  | ng    | 100      |
| 15) Benzyl Alcohol            | 6.892  | 79   | 275011   | 55.475  | ng    | 99       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.016  | 45   | 594788   | 52.246  | ng    | 89       |
| 17) 2-Methylphenol            | 7.010  | 107  | 272130   | 48.784  | ng    | 97       |
| 18) Hexachloroethane          | 7.239  | 117  | 132297   | 55.137  | ng    | 93       |
| 19) n-Nitroso-di-n-propyla... | 7.157  | 70   | 230636   | 50.030  | ng    | 98       |
| 20) 3+4-Methylphenols         | 7.163  | 107  | 346867   | 49.879  | ng    | 92       |
| 22) Acetophenone              | 7.151  | 105  | 463320   | 55.637  | ng    | # 99     |
| 24) Nitrobenzene              | 7.328  | 77   | 357345   | 53.931  | ng    | 99       |
| 25) Isophorone                | 7.569  | 82   | 657594   | 52.797  | ng    | 99       |
| 26) 2-Nitrophenol             | 7.645  | 139  | 181797   | 56.221  | ng    | 97       |
| 27) 2,4-Dimethylphenol        | 7.687  | 122  | 259397   | 48.729  | ng    | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.775  | 93   | 405891   | 54.721  | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 7.892  | 162  | 281516   | 56.433  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 7.963  | 180  | 285151   | 55.888  | ng    | 99       |
| 31) Naphthalene               | 8.039  | 128  | 941637   | 53.167  | ng    | 98       |
| 32) Benzoic acid              | 7.845  | 122  | 182297   | 50.592  | ng    | 97       |
| 33) 4-Chloroaniline           | 8.104  | 127  | 125490   | 16.220  | ng    | 98       |
| 34) Hexachlorobutadiene       | 8.151  | 225  | 171604   | 56.822  | ng    | 98       |
| 35) Caprolactam               | 8.492  | 113  | 96820m   | 56.774  | ng    |          |
| 36) 4-Chloro-3-methylphenol   | 8.604  | 107  | 300838   | 54.380  | ng    | 97       |
| 37) 2-Methylnaphthalene       | 8.733  | 142  | 604386   | 51.795  | ng    | 98       |
| 38) 1-Methylnaphthalene       | 8.834  | 142  | 570041   | 52.965  | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 8.904  | 216  | 293091   | 54.429  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 8.881  | 237  | 80988    | 76.099  | ng    | 96       |
| 43) 2,4,6-Trichlorophenol     | 9.022  | 196  | 190413   | 54.874  | ng    | 97       |

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Manual Integrations  
 APPROVED

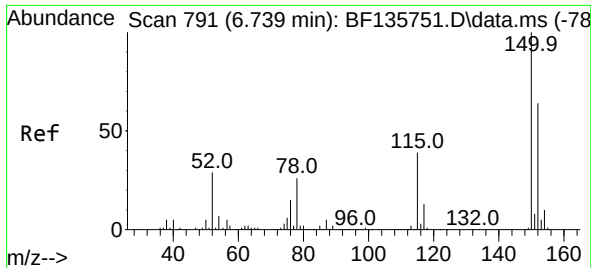
Reviewed By :Yogesh Patel 10/17/2023  
 Supervised By :mohammad ahmed 10/17/2023

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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.075  | 196  | 198298   | 49.133  | ng    | 98       |
| 46) 1,1'-Biphenyl             | 9.204  | 154  | 765238   | 53.365  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.228  | 162  | 574762   | 55.616  | ng    | 99       |
| 48) 2-Nitroaniline            | 9.339  | 65   | 216784   | 53.143  | ng    | 98       |
| 49) Acenaphthylene            | 9.639  | 152  | 923801   | 54.016  | ng    | 99       |
| 50) Dimethylphthalate         | 9.510  | 163  | 666189   | 52.717  | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.581  | 165  | 149321   | 54.947  | ng    | 100      |
| 52) Acenaphthene              | 9.816  | 154  | 548085   | 53.467  | ng    | 100      |
| 53) 3-Nitroaniline            | 9.751  | 138  | 129705   | 38.935  | ng    | 97       |
| 54) 2,4-Dinitrophenol         | 9.875  | 184  | 112059   | 98.785  | ng    | 90       |
| 55) Dibenzofuran              | 9.986  | 168  | 817384   | 52.846  | ng    | 100      |
| 56) 4-Nitrophenol             | 9.939  | 139  | 159056   | 102.545 | ng    | 90       |
| 57) 2,4-Dinitrotoluene        | 9.998  | 165  | 189723   | 54.876  | ng    | 94       |
| 58) Fluorene                  | 10.333 | 166  | 650483   | 53.720  | ng    | 100      |
| 59) 2,3,4,6-Tetrachlorophenol | 10.116 | 232  | 162498   | 53.277  | ng    | 98       |
| 60) Diethylphthalate          | 10.210 | 149  | 686129   | 53.184  | ng    | 100      |
| 61) 4-Chlorophenyl-phenyle... | 10.322 | 204  | 310000   | 52.971  | ng    | 97       |
| 62) 4-Nitroaniline            | 10.375 | 138  | 151144   | 49.312  | ng    | 97       |
| 63) Azobenzene                | 10.486 | 77   | 675986   | 53.932  | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 10.410 | 198  | 87696    | 48.112  | ng    | 99       |
| 66) n-Nitrosodiphenylamine    | 10.451 | 169  | 586632   | 53.140  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.816 | 248  | 192555   | 52.962  | ng    | 98       |
| 68) Hexachlorobenzene         | 10.886 | 284  | 208253   | 56.261  | ng    | 97       |
| 69) Atrazine                  | 10.980 | 200  | 186007   | 61.947  | ng    | 99       |
| 70) Pentachlorophenol         | 11.092 | 266  | 149842   | 102.638 | ng    | 97       |
| 71) Phenanthrene              | 11.298 | 178  | 933919   | 53.827  | ng    | 99       |
| 72) Anthracene                | 11.351 | 178  | 948009   | 52.729  | ng    | 100      |
| 73) Carbazole                 | 11.516 | 167  | 870207   | 51.897  | ng    | 100      |
| 74) Di-n-butylphthalate       | 11.839 | 149  | 1139592  | 55.355  | ng    | 100      |
| 75) Fluoranthene              | 12.498 | 202  | 973279   | 50.543  | ng    | 98       |
| 77) Benzidine                 | 12.627 | 184  | 160893   | 39.531  | ng    | 98       |
| 78) Pyrene                    | 12.727 | 202  | 969413   | 65.404  | ng    | 100      |
| 80) Butylbenzylphthalate      | 13.351 | 149  | 426626   | 65.501  | ng    | 97       |
| 81) Benzo(a)anthracene        | 13.933 | 228  | 708279   | 57.812  | ng    | 100      |
| 82) 3,3'-Dichlorobenzidine    | 13.892 | 252  | 155337   | 38.230  | ng    | 98       |
| 83) Chrysene                  | 13.968 | 228  | 648426   | 54.643  | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 13.910 | 149  | 560280   | 63.468  | ng    | 100      |
| 85) Di-n-octyl phthalate      | 14.527 | 149  | 876652   | 62.626  | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 16.927 | 276  | 696387   | 61.808  | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 14.986 | 252  | 651133   | 56.264  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.015 | 252  | 555108   | 49.407  | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.357 | 252  | 559001   | 51.368  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 16.927 | 278  | 572764   | 62.012  | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.374 | 276  | 553508   | 58.340  | ng    | 98       |

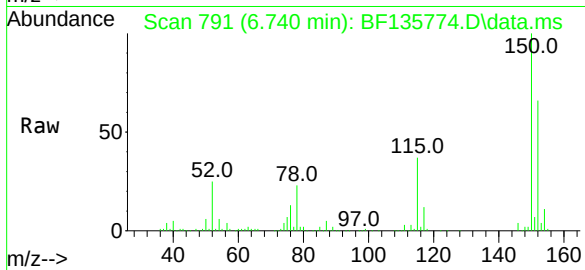
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.740 min Scan# 791  
 Delta R.T. -0.006 min  
 Lab File: BF135774.D  
 Acq: 16 Oct 2023 13:43

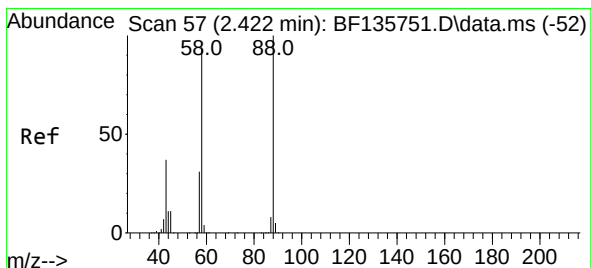
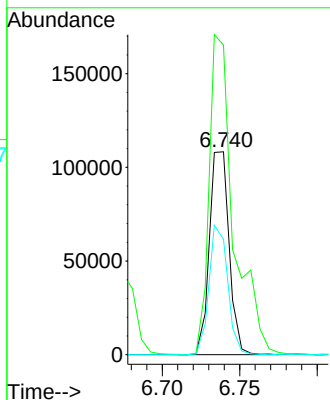
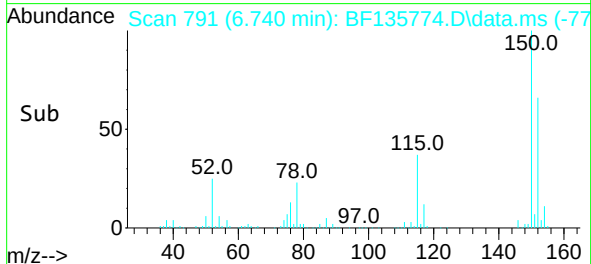
Instrument : BNA\_F  
 ClientSampleId : PP-20230928-B6A-0-7.5MSD



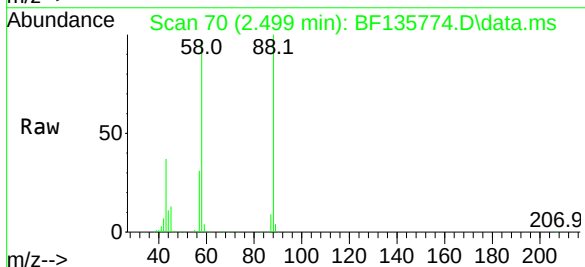
Tgt Ion: 152 Resp: 96070  
 Ion Ratio Lower Upper  
 152 100  
 150 152.6 124.5 186.7  
 115 57.0 49.0 73.4

Manual Integrations  
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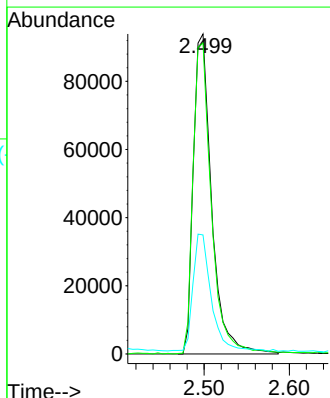
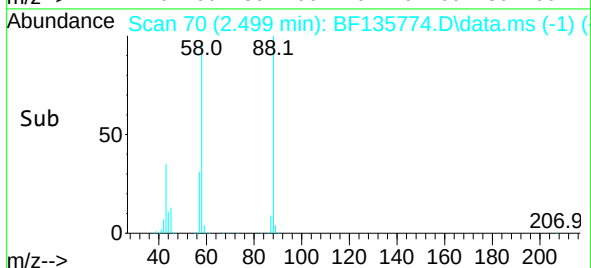
Reviewed By :Yogesh Patel 10/17/2023  
 Supervised By :mohammad ahmed 10/17/2023

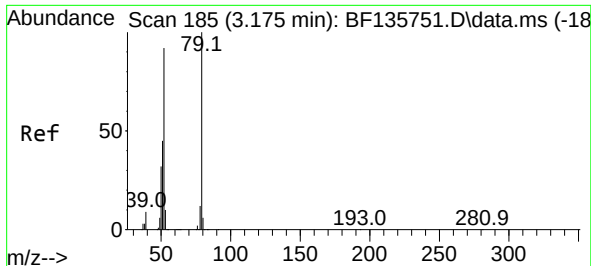


#2  
 1,4-Dioxane  
 Concen: 48.628 ng  
 RT: 2.499 min Scan# 70  
 Delta R.T. 0.059 min  
 Lab File: BF135774.D  
 Acq: 16 Oct 2023 13:43



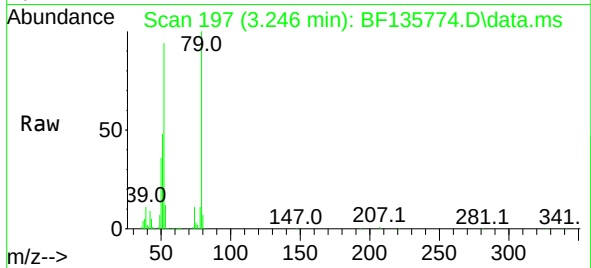
Tgt Ion: 88 Resp: 140157  
 Ion Ratio Lower Upper  
 88 100  
 58 98.2 76.1 114.1  
 43 36.4 29.8 44.8





#3  
Pyridine  
Concen: 45.867 ng  
RT: 3.246 min Scan# 191  
Delta R.T. 0.059 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

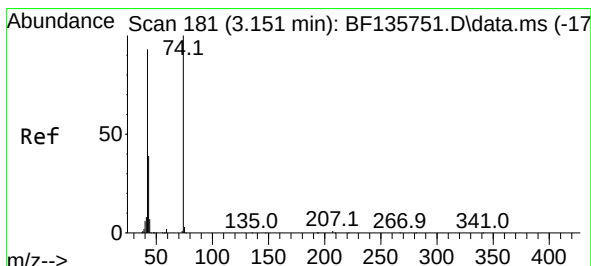
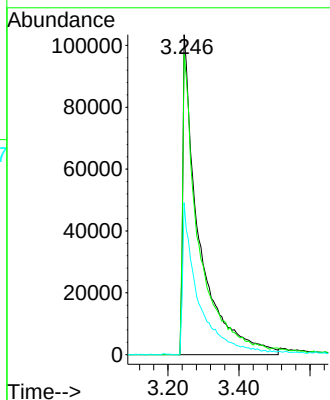
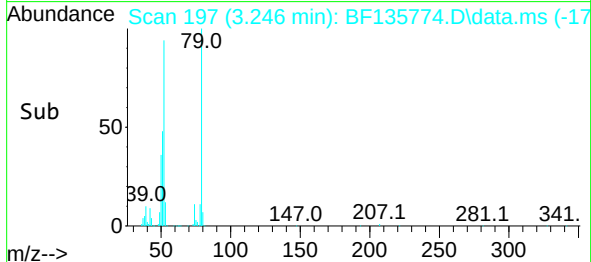
Instrument :  
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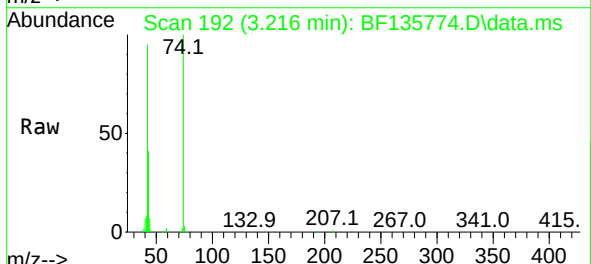
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Ion Ratio Lower Upper  
79 100  
52 93.8 73.4 110.2  
51 47.5 36.5 54.7

Manual Integrations  
APPROVED

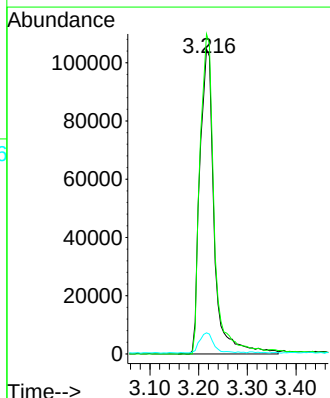
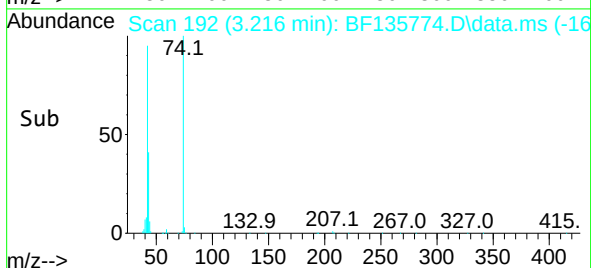
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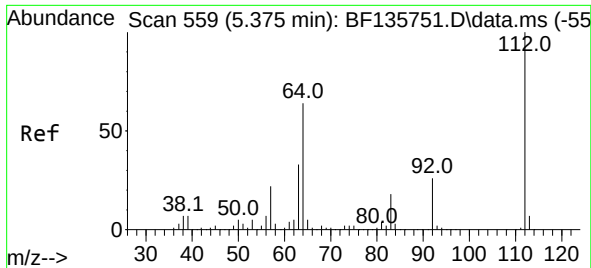


#4  
n-Nitrosodimethylamine  
Concen: 56.562 ng  
RT: 3.216 min Scan# 192  
Delta R.T. 0.047 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43



Tgt Ion: 42 Resp: 215105  
Ion Ratio Lower Upper  
42 100  
74 104.9 86.5 129.7  
44 6.9 5.9 8.9





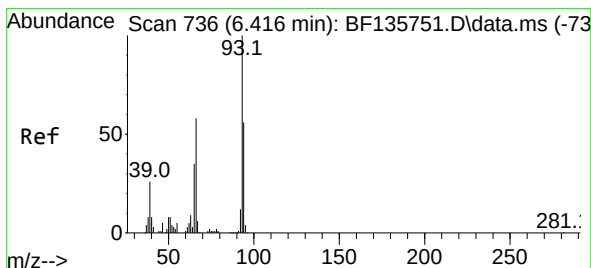
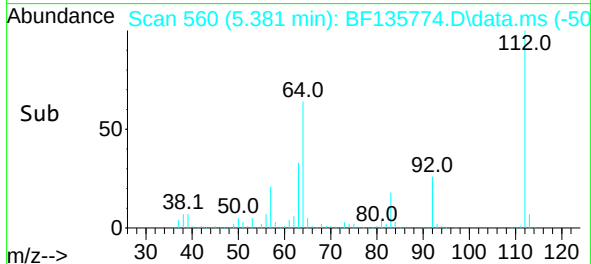
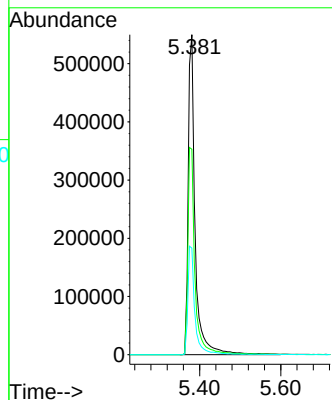
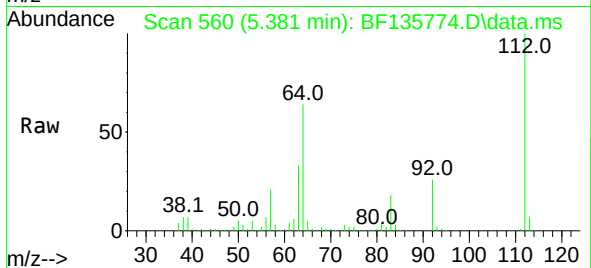
#5  
2-Fluorophenol  
Concen: 108.727 ng  
RT: 5.381 min Scan# 50  
Delta R.T. 0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

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BNA\_F  
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Tgt Ion:112 Resp: 649688  
Ion Ratio Lower Upper  
112 100  
64 64.2 51.2 76.8  
63 33.3 26.1 39.1

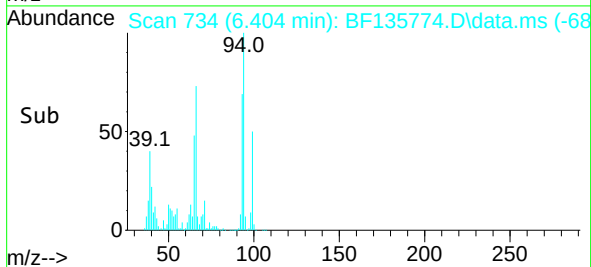
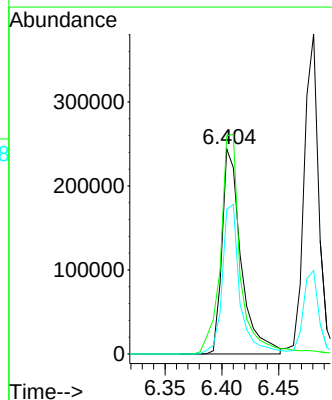
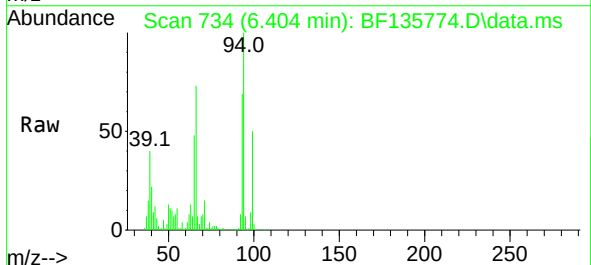
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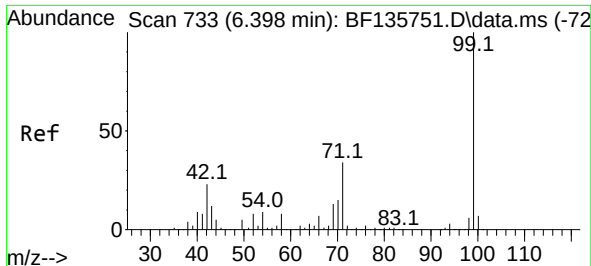
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#6  
Aniline  
Concen: 30.513 ng  
RT: 6.404 min Scan# 734  
Delta R.T. -0.012 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

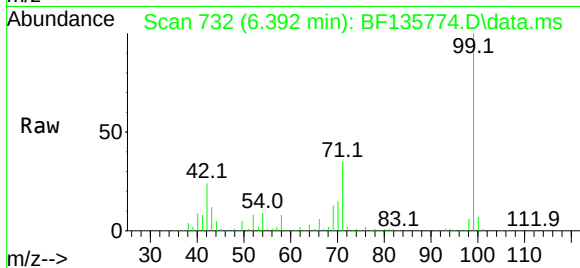
Tgt Ion: 93 Resp: 286293  
Ion Ratio Lower Upper  
93 100  
66 106.5 47.6 71.4#  
65 70.5 28.5 42.7#





#7  
Phenol-d6  
Concen: 100.812 ng  
RT: 6.392 min Scan# 711  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

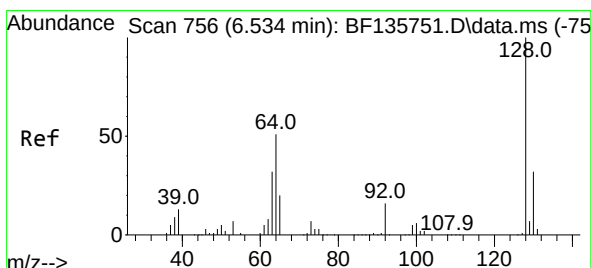
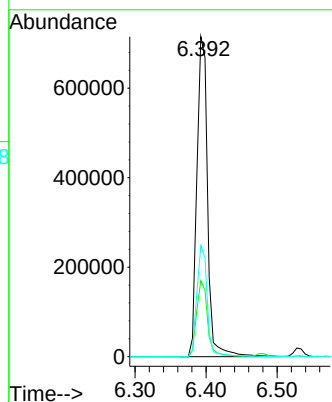
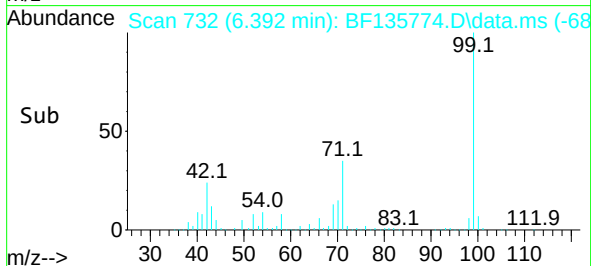
Instrument :  
BNA\_F  
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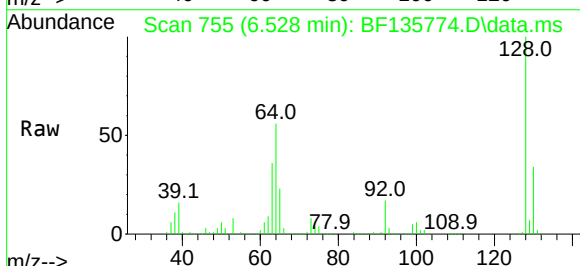
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Ion Ratio Lower Upper  
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71 34.7 27.2 40.8

Manual Integrations  
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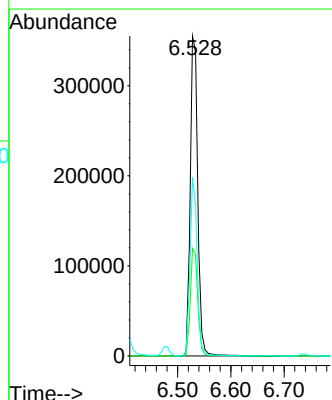
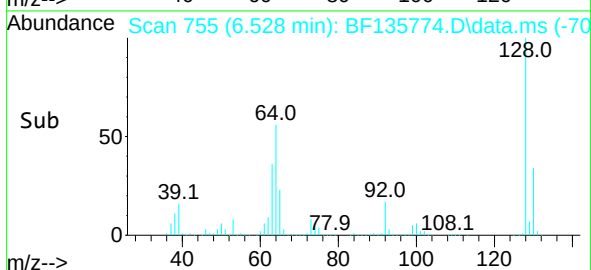
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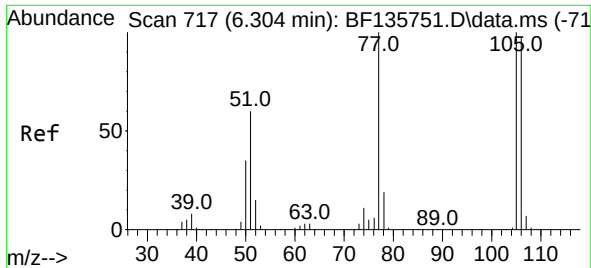


#8  
2-Chlorophenol  
Concen: 53.947 ng  
RT: 6.528 min Scan# 755  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43



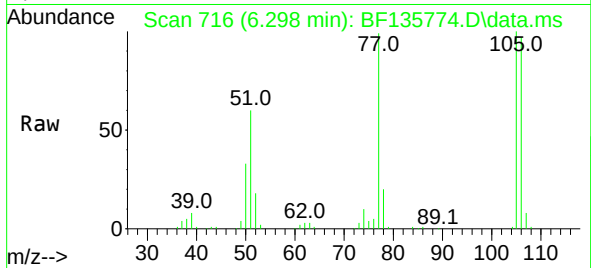
Tgt Ion:128 Resp: 347621  
Ion Ratio Lower Upper  
128 100  
130 33.6 12.4 52.4  
64 55.8 32.3 72.3





#9  
Benzaldehyde  
Concen: 15.532 ng  
RT: 6.298 min Scan# 716  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

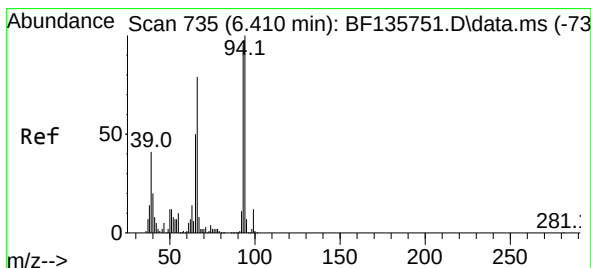
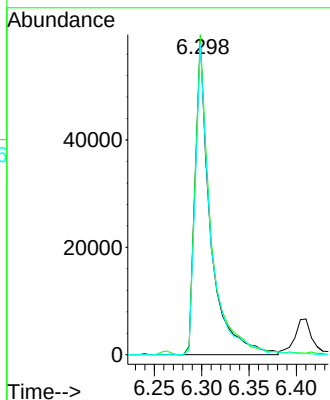
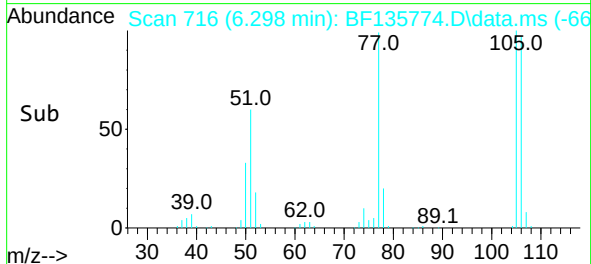
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



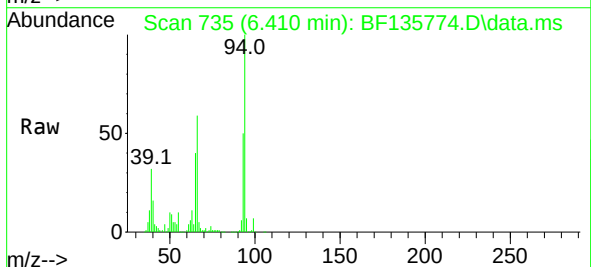
Tgt Ion: 77 Resp: 65910  
Ion Ratio Lower Upper  
77 100  
105 101.4 79.9 119.9  
106 98.5 77.1 117.1

Manual Integrations  
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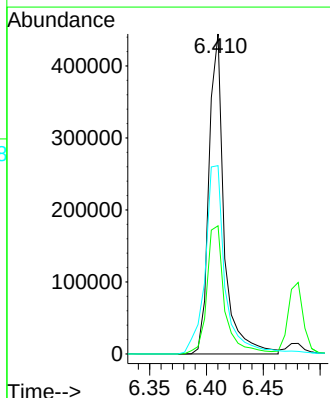
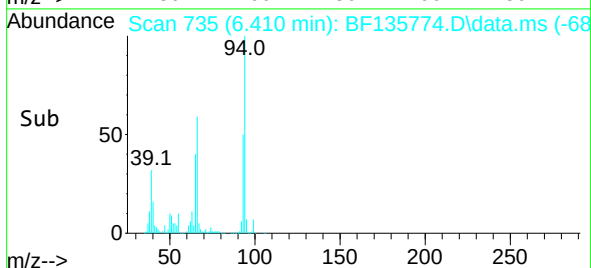
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



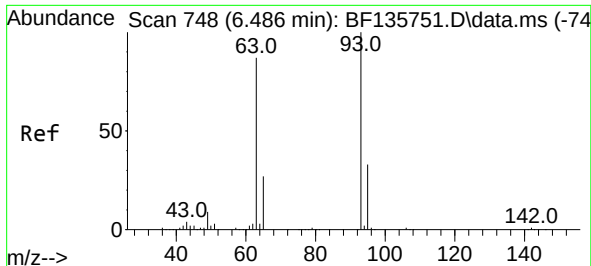
#10  
Phenol  
Concen: 52.785 ng  
RT: 6.410 min Scan# 735  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43



Tgt Ion: 94 Resp: 412367  
Ion Ratio Lower Upper  
94 100  
65 40.1 30.3 70.3  
66 58.8 59.1 99.1#







#11

bis(2-Chloroethyl)ether

Concen: 53.345 ng

RT: 6.481 min Scan# 748

Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

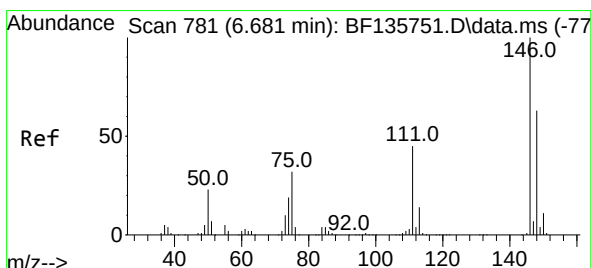
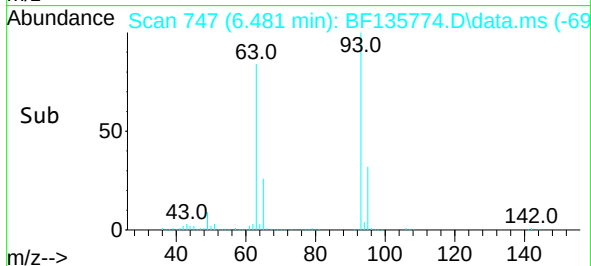
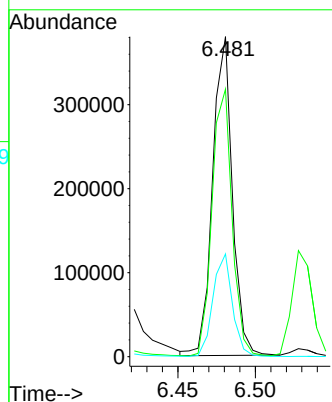
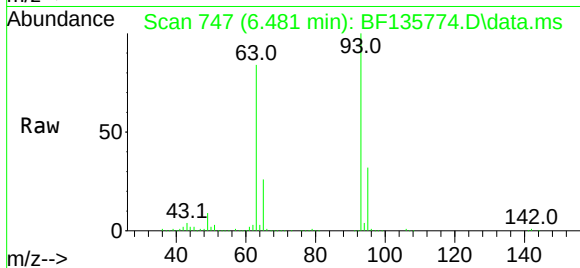
ClientSampleId :

PP-20230928-B6A-0-7.5MSD

Tgt Ion: 93 Resp: 335789  
 Ion Ratio Lower Upper  
 93 100  
 63 83.6 66.3 106.3  
 95 32.1 12.8 52.8

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 10/17/2023  
 Supervised By :mohammad ahmed 10/17/2023



#12

1,3-Dichlorobenzene

Concen: 53.833 ng

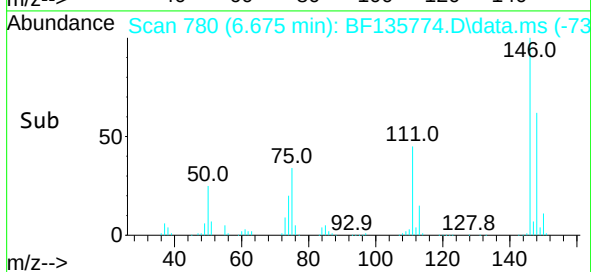
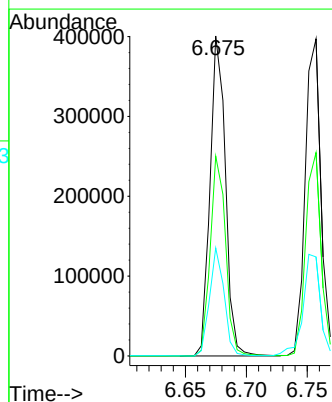
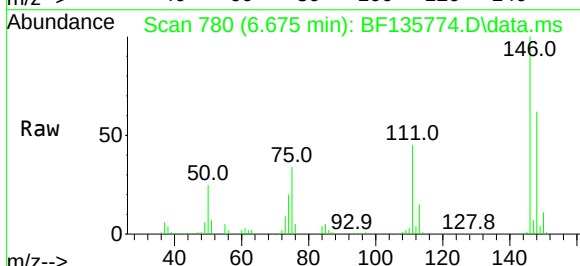
RT: 6.675 min Scan# 780

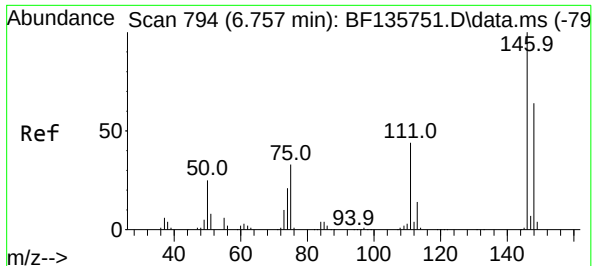
Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Tgt Ion:146 Resp: 351669  
 Ion Ratio Lower Upper  
 146 100  
 148 62.5 50.2 75.4  
 75 33.7 25.8 38.6





#13

1,4-Dichlorobenzene

Concen: 54.616 ng

RT: 6.757 min Scan# 794

Delta R.T. -0.000 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

PP-20230928-B6A-0-7.5MSD

Tgt Ion:146 Resp: 36143

Ion Ratio Lower Upper

146 100

148 64.1 51.0 76.6

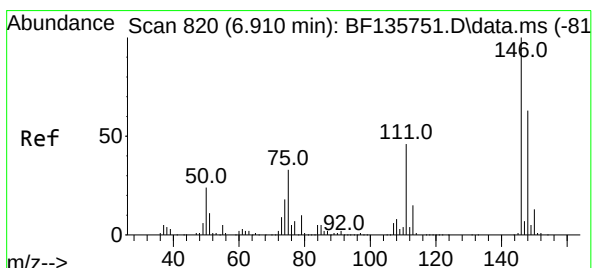
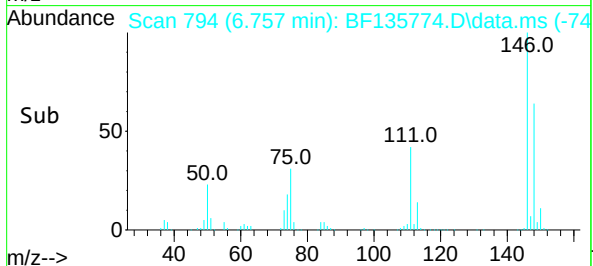
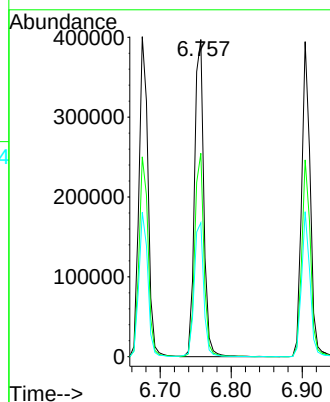
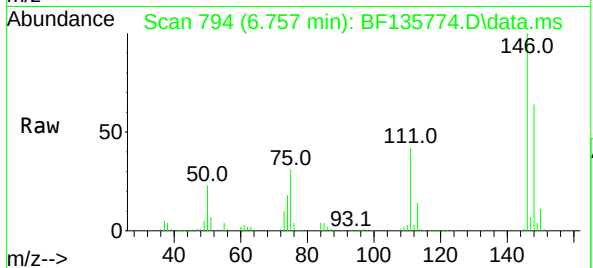
111 42.2 35.2 52.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#14

1,2-Dichlorobenzene

Concen: 55.073 ng

RT: 6.904 min Scan# 819

Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

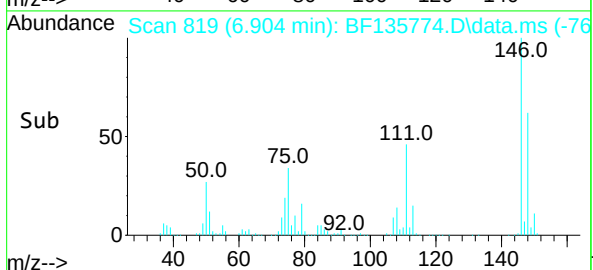
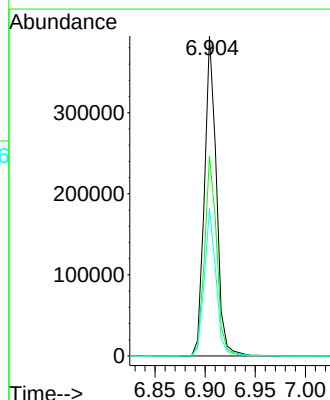
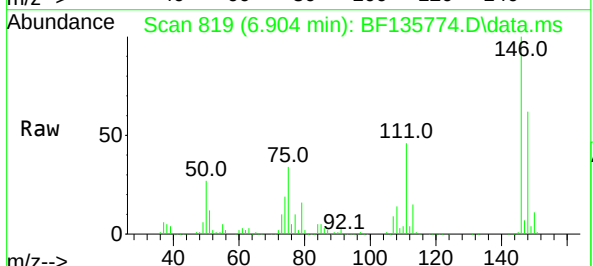
Tgt Ion:146 Resp: 328156

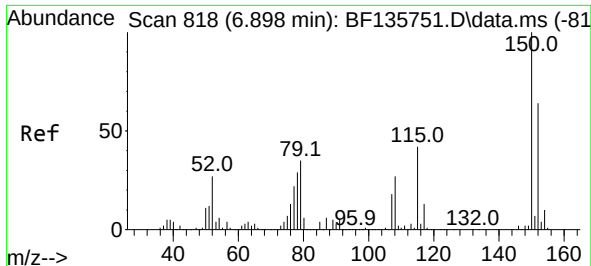
Ion Ratio Lower Upper

146 100

148 62.5 50.2 75.2

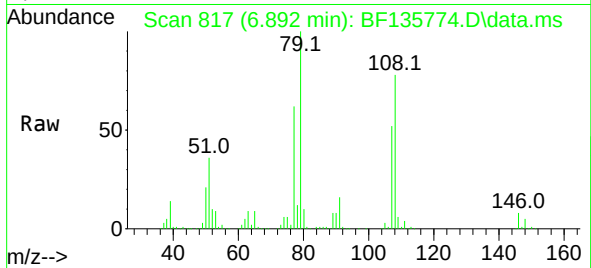
111 46.0 37.1 55.7





#15  
Benzyl Alcohol  
Concen: 55.475 ng  
RT: 6.892 min Scan# 817  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

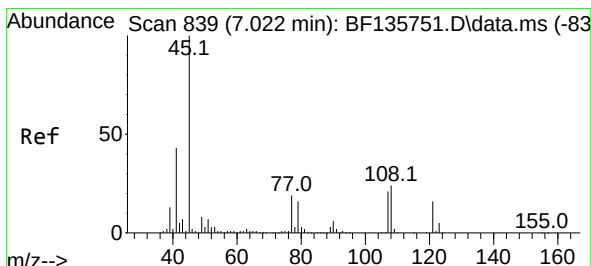
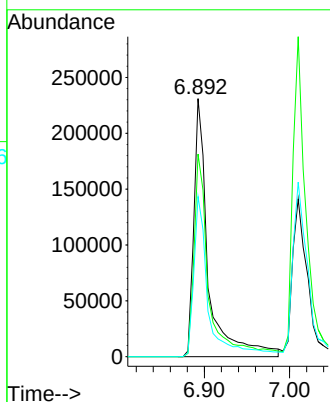
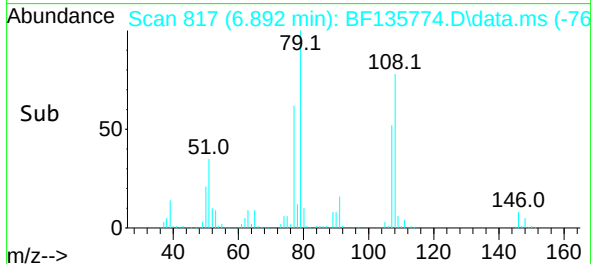
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion: 79 Resp: 27501  
Ion Ratio Lower Upper  
79 100  
108 78.5 62.0 93.0  
77 62.1 50.5 75.7

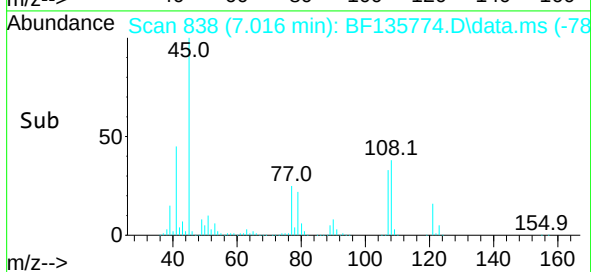
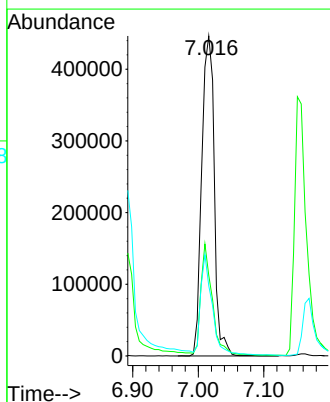
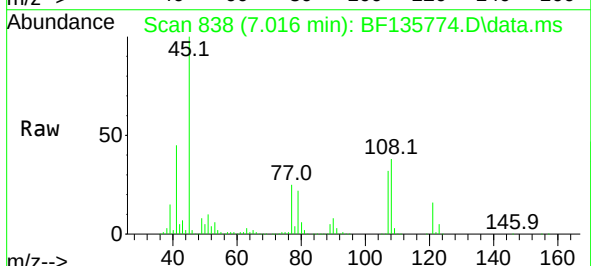
Manual Integrations  
APPROVED

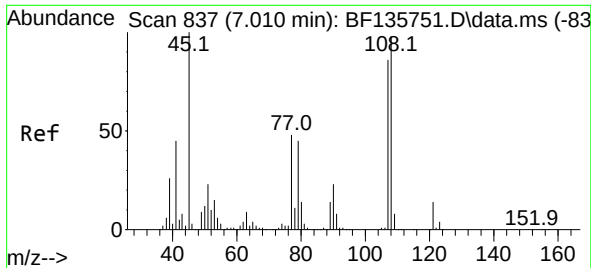
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 52.246 ng  
RT: 7.016 min Scan# 838  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

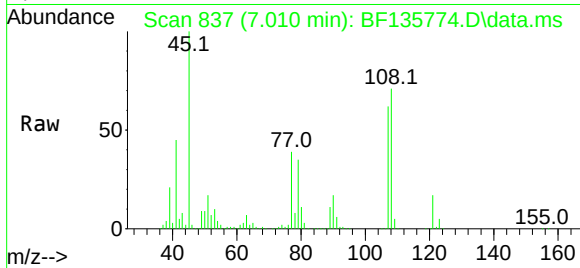
Tgt Ion: 45 Resp: 594788  
Ion Ratio Lower Upper  
45 100  
77 25.2 0.0 39.8  
79 21.9 0.0 37.6





#17  
2-Methylphenol  
Concen: 48.784 ng  
RT: 7.010 min Scan# 810  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

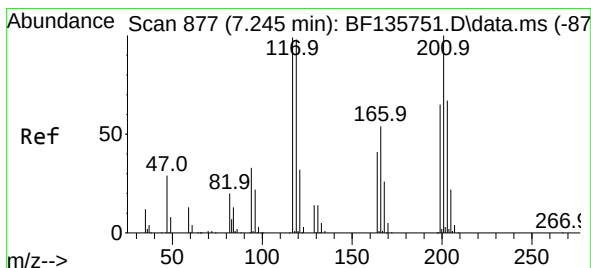
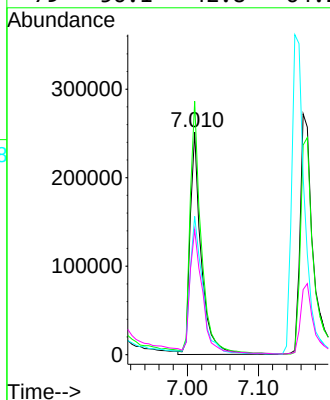
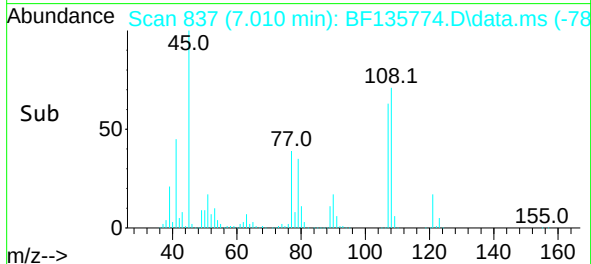
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



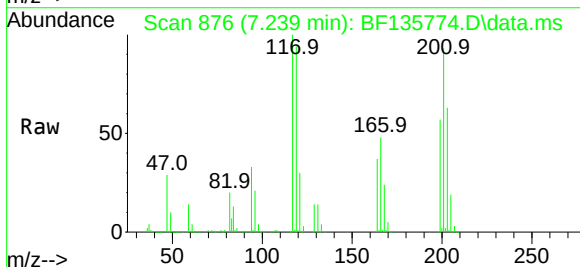
Tgt Ion:107 Resp: 272130  
Ion Ratio Lower Upper  
107 100  
108 113.9 91.8 137.6  
77 62.2 45.4 68.0  
79 56.1 42.8 64.2

Manual Integrations  
APPROVED

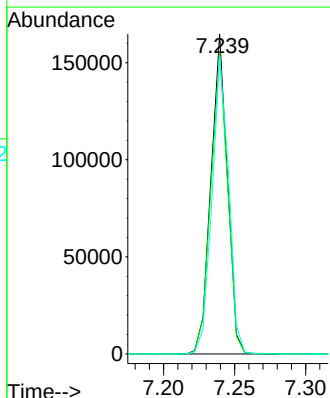
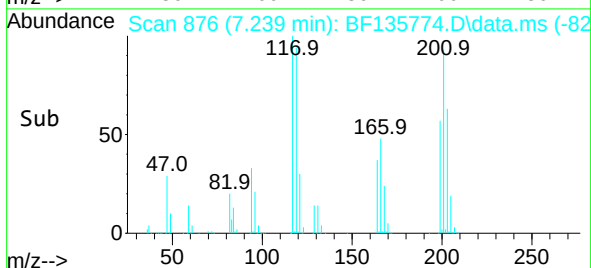
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023

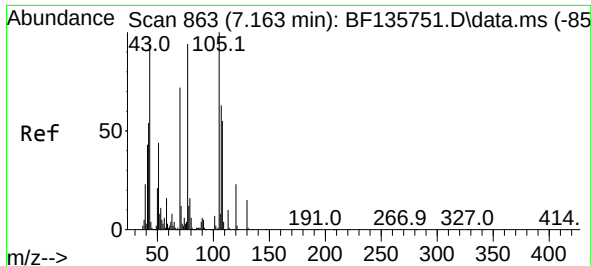


#18  
Hexachloroethane  
Concen: 55.137 ng  
RT: 7.239 min Scan# 876  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43



Tgt Ion:117 Resp: 132297  
Ion Ratio Lower Upper  
117 100  
119 94.2 79.5 119.3  
201 93.0 80.9 121.3





#19

n-Nitroso-di-n-propylamine

Concen: 50.030 ng

RT: 7.157 min Scan# 80

Delta R.T. -0.006 min

Lab File: BF135774.D

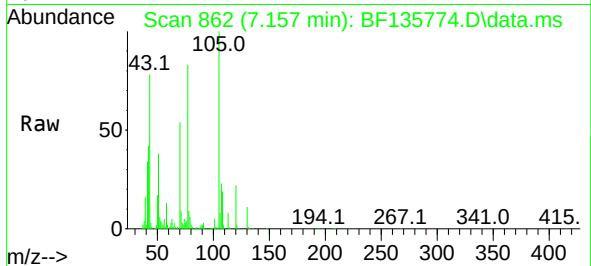
Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

PP-20230928-B6A-0-7.5MSD



Tgt Ion: 70 Resp: 230630

Ion Ratio Lower Upper

70 100

42 77.3 59.8 89.6

101 9.3 7.4 11.2

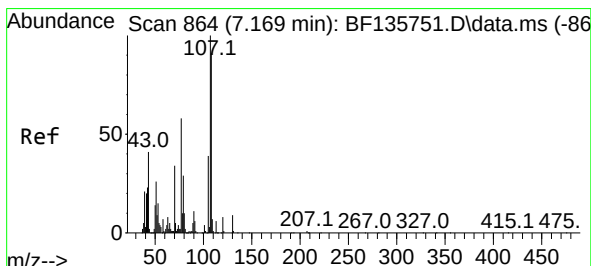
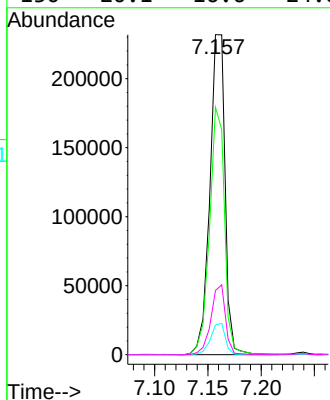
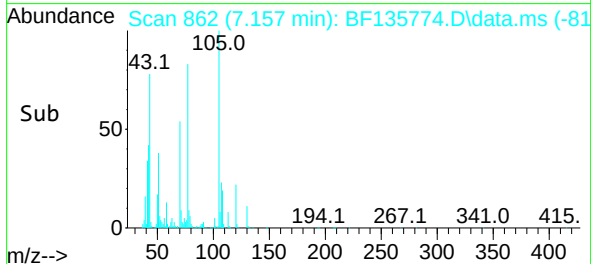
130 20.1 16.6 24.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#20

3+4-Methylphenols

Concen: 49.879 ng

RT: 7.163 min Scan# 863

Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Tgt Ion:107 Resp: 346867

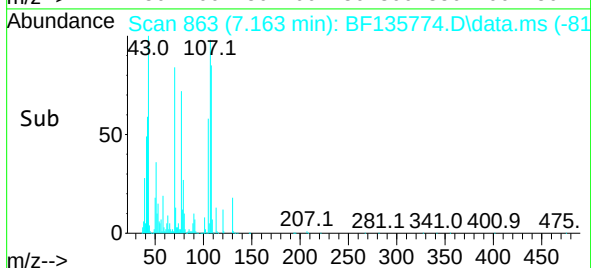
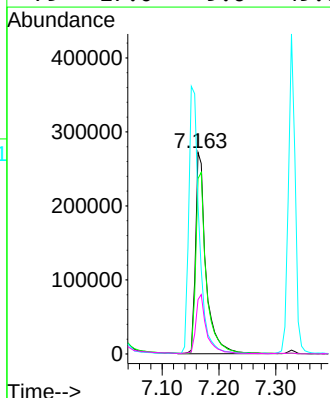
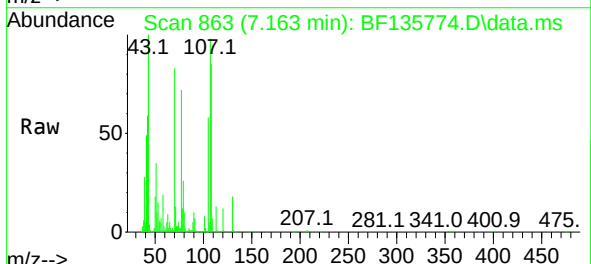
Ion Ratio Lower Upper

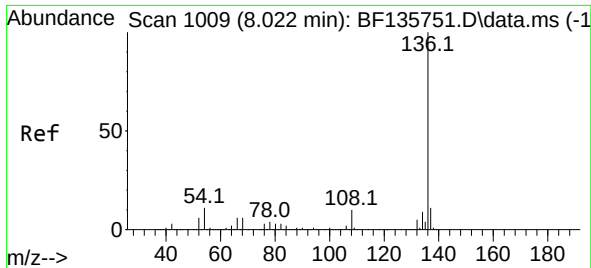
107 100

108 87.1 71.1 111.1

77 73.9 42.0 82.0

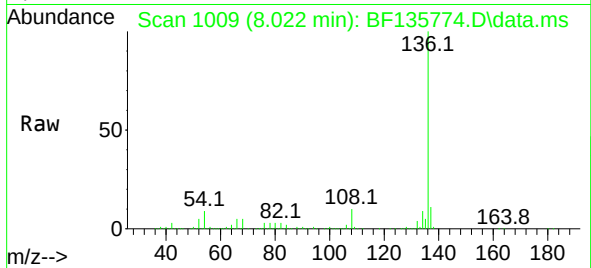
79 27.0 9.6 49.6





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.022 min Scan# 1009  
Delta R.T. -0.000 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

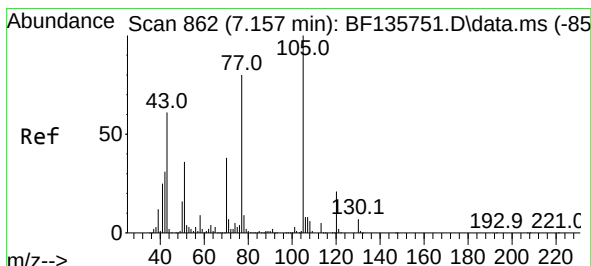
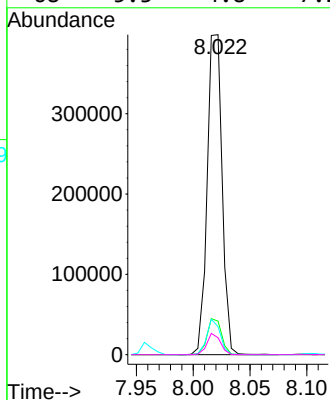
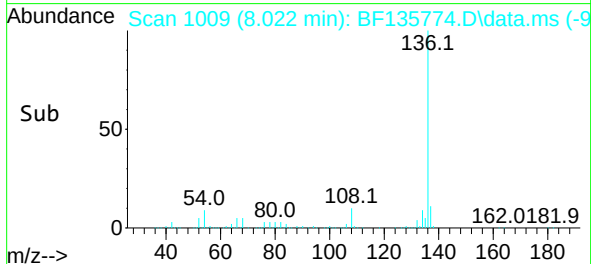
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:136 Resp: 363107  
Ion Ratio Lower Upper  
136 100  
137 10.5 8.6 12.8  
54 8.7 8.5 12.7  
68 5.3 4.8 7.2

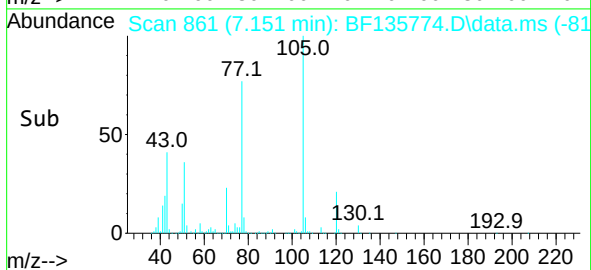
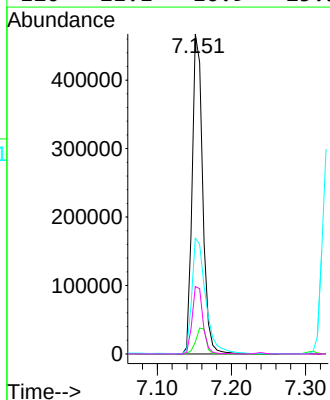
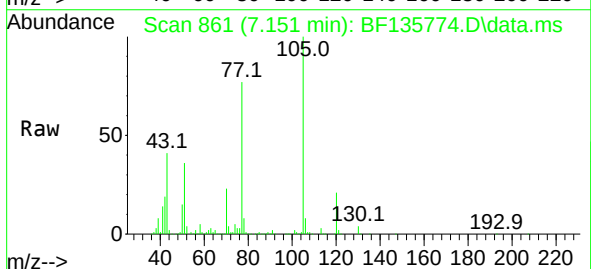
Manual Integrations  
APPROVED

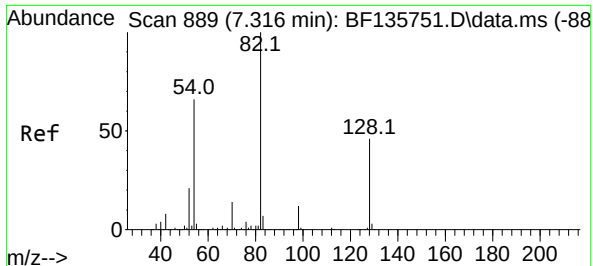
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#22  
Acetophenone  
Concen: 55.637 ng  
RT: 7.151 min Scan# 861  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

Tgt Ion:105 Resp: 463320  
Ion Ratio Lower Upper  
105 100  
71 3.7 5.4 8.0#  
51 36.2 29.4 44.0  
120 21.1 16.9 25.3





#23

Nitrobenzene-d5

Concen: 71.749 ng

RT: 7.310 min Scan# 889

Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

PP-20230928-B6A-0-7.5MSD

Tgt Ion: 82 Resp: 473690

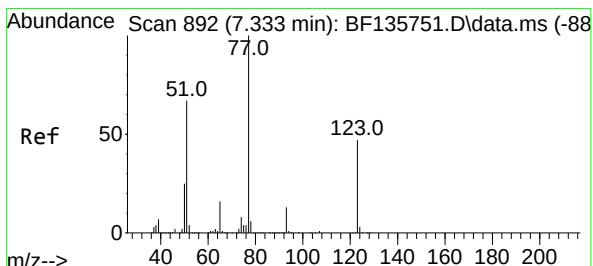
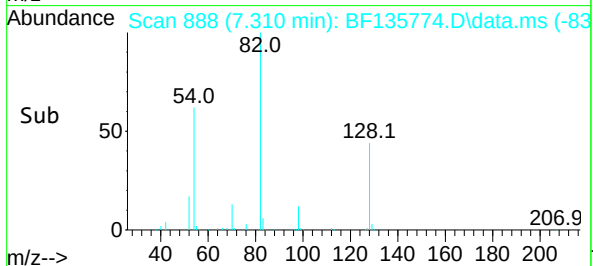
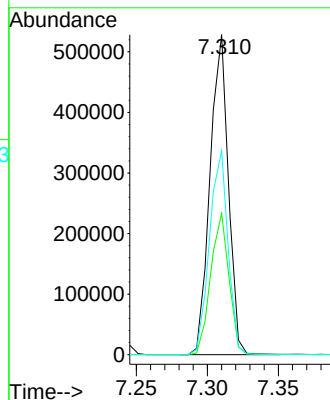
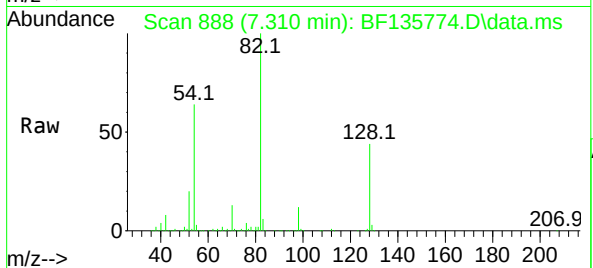
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 44.1  | 37.0  | 55.6  |
| 54  | 63.8  | 52.8  | 79.2  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#24

Nitrobenzene

Concen: 53.931 ng

RT: 7.328 min Scan# 891

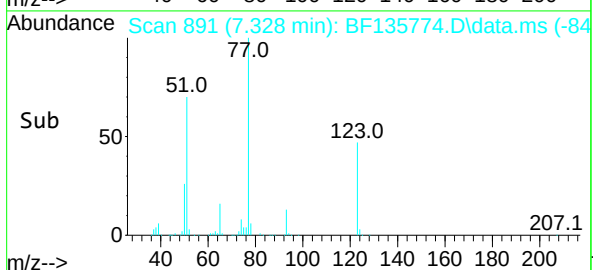
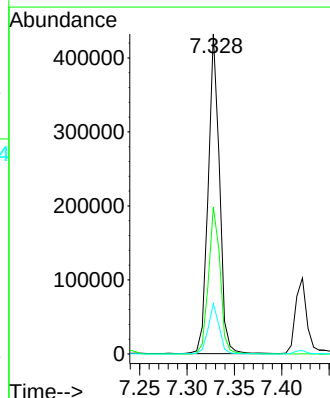
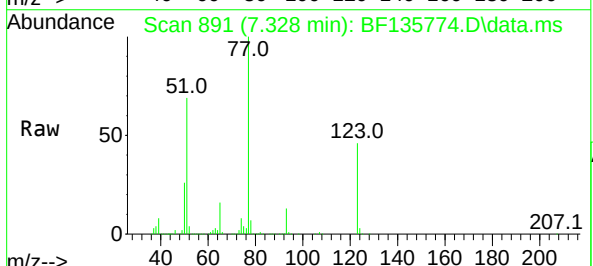
Delta R.T. -0.006 min

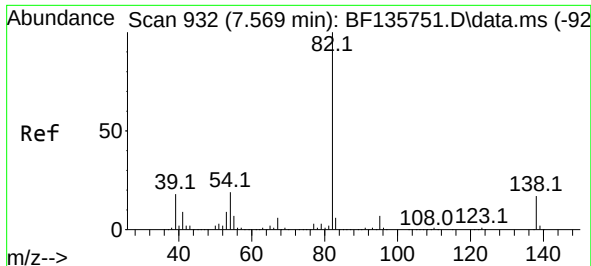
Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Tgt Ion: 77 Resp: 357345

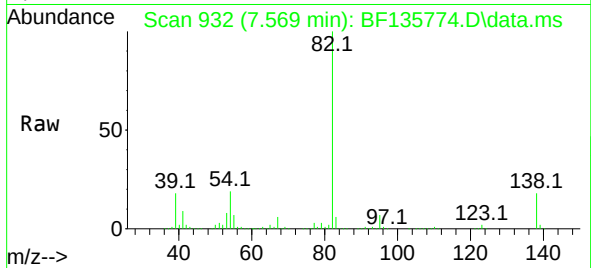
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 77  | 100   |       |       |
| 123 | 46.0  | 37.3  | 55.9  |
| 65  | 15.7  | 12.6  | 18.8  |





#25  
Isophorone  
Concen: 52.797 ng  
RT: 7.569 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

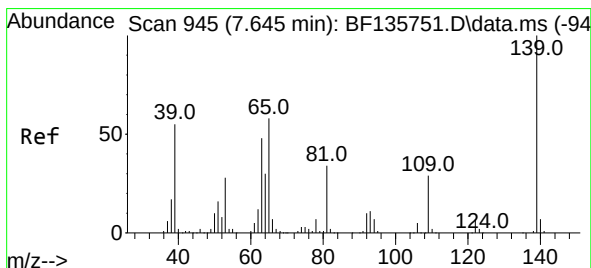
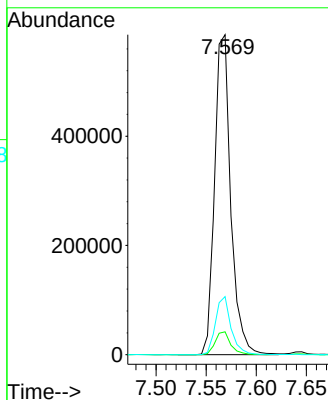
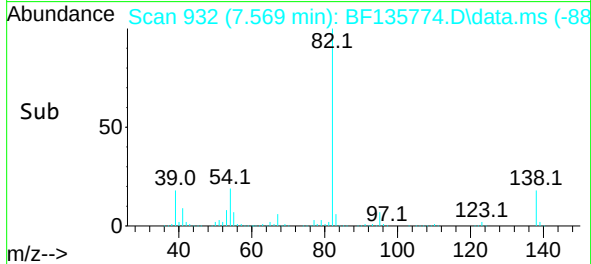
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion: 82 Resp: 657594  
Ion Ratio Lower Upper  
82 100  
95 7.2 5.5 8.3  
138 18.1 13.9 20.9

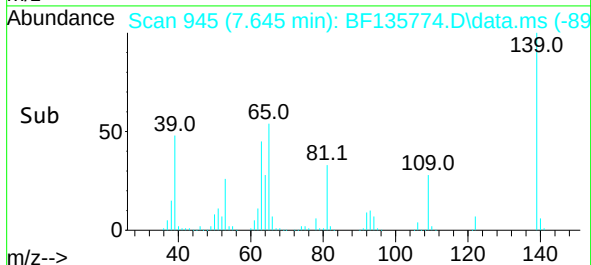
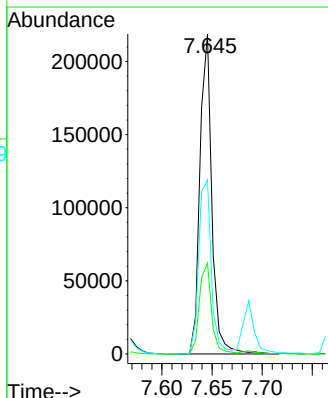
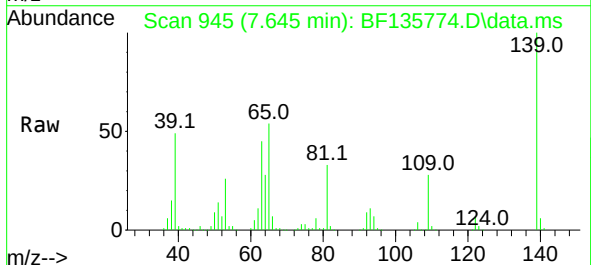
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023

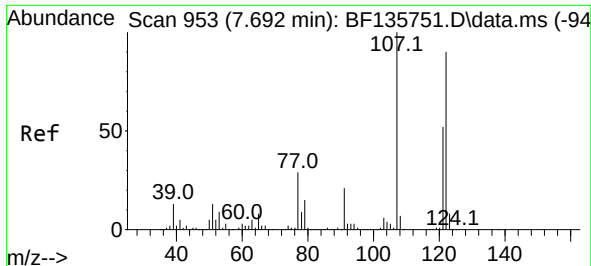


#26  
2-Nitrophenol  
Concen: 56.221 ng  
RT: 7.645 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

Tgt Ion:139 Resp: 181797  
Ion Ratio Lower Upper  
139 100  
109 28.4 23.0 34.4  
65 54.4 46.0 69.0







#27

2,4-Dimethylphenol

Concen: 48.729 ng

RT: 7.687 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

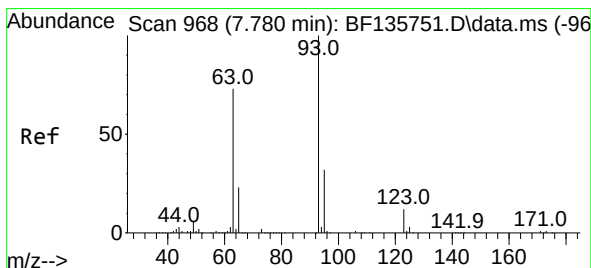
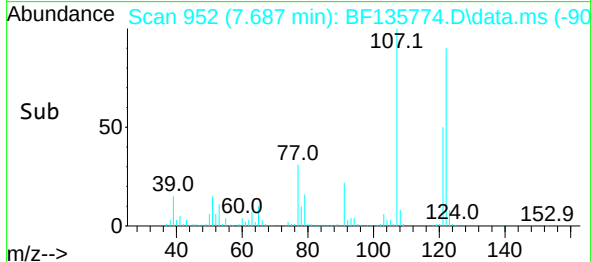
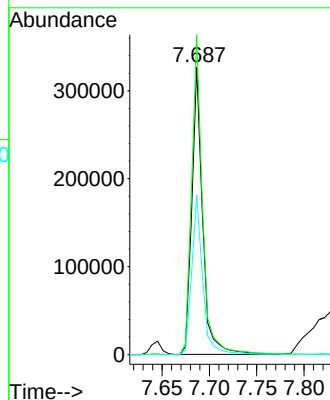
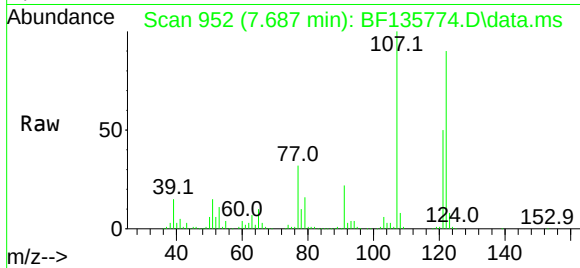
PP-20230928-B6A-0-7.5MSD

Tgt Ion:122 Resp: 259397  
 Ion Ratio Lower Upper  
 122 100  
 107 111.3 88.2 132.4  
 121 55.6 45.5 68.3

Manual Integrations

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Reviewed By :Yogesh Patel 10/17/2023  
 Supervised By :mohammad ahmed 10/17/2023



#28

bis(2-Chloroethoxy)methane

Concen: 54.721 ng

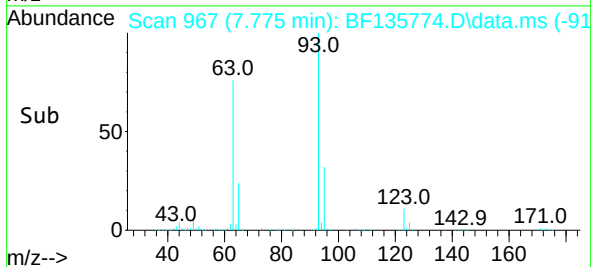
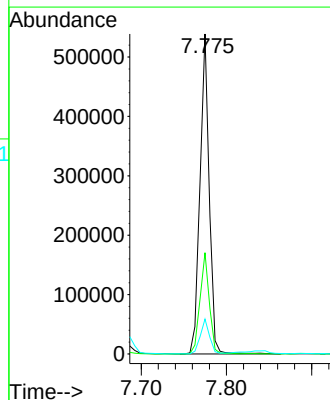
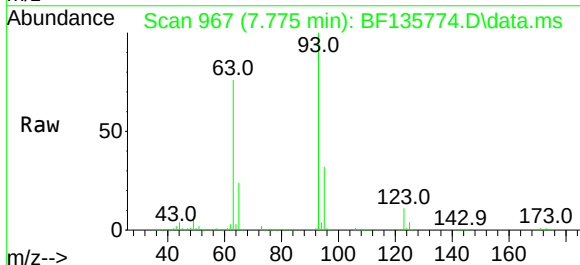
RT: 7.775 min Scan# 967

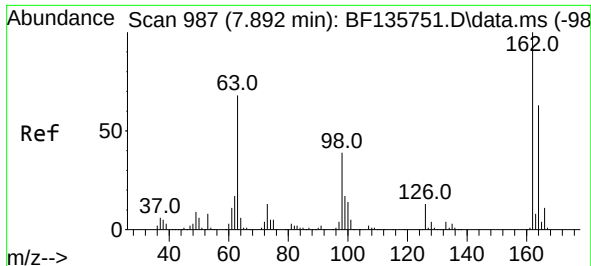
Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Tgt Ion: 93 Resp: 405891  
 Ion Ratio Lower Upper  
 93 100  
 95 31.7 25.7 38.5  
 123 10.9 9.4 14.0





#29

2,4-Dichlorophenol

Concen: 56.433 ng

RT: 7.892 min Scan# 987

Delta R.T. -0.000 min

Lab File: BF135774.D

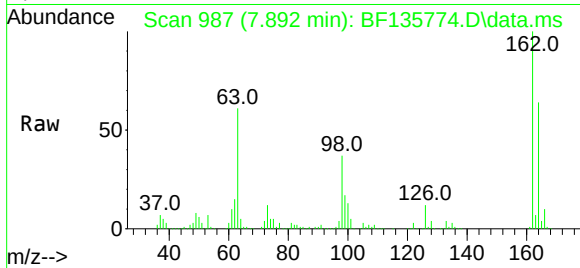
Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

PP-20230928-B6A-0-7.5MSD



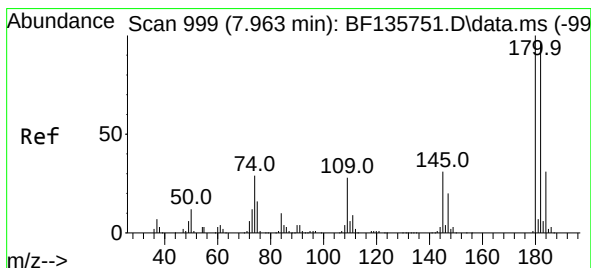
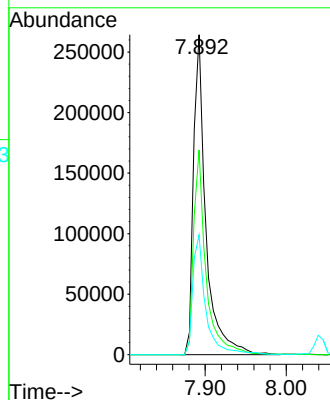
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:162 | Resp: | 281510    |
| Ion Ratio   | Lower | Upper     |
| 162         | 100   |           |
| 164         | 64.0  | 43.4 83.4 |
| 98          | 37.5  | 19.0 59.0 |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#30

1,2,4-Trichlorobenzene

Concen: 55.888 ng

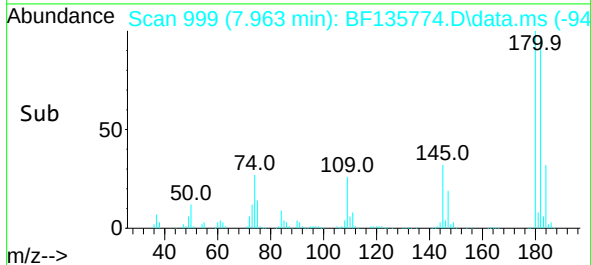
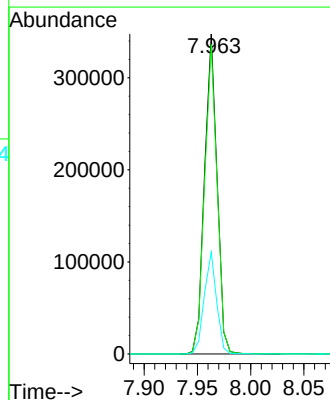
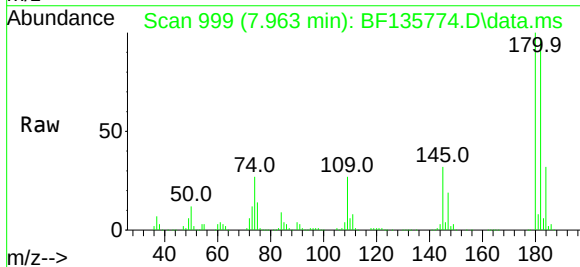
RT: 7.963 min Scan# 999

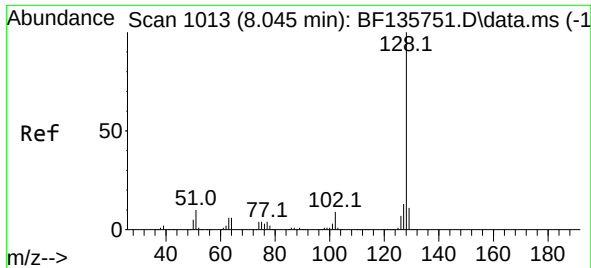
Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

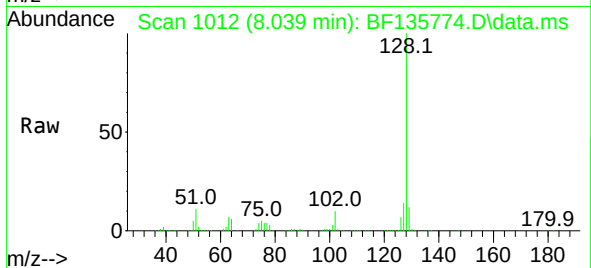
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 285151     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.7  | 76.4 114.6 |
| 145         | 31.8  | 25.0 37.6  |





#31  
Naphthalene  
Concen: 53.167 ng  
RT: 8.039 min Scan# 1013  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

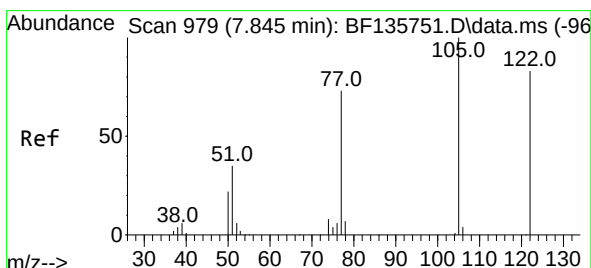
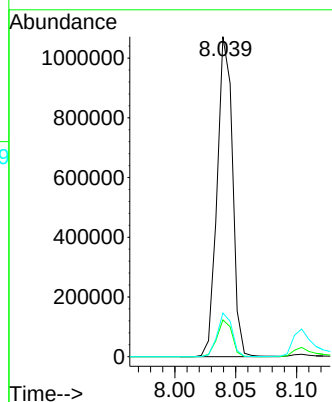
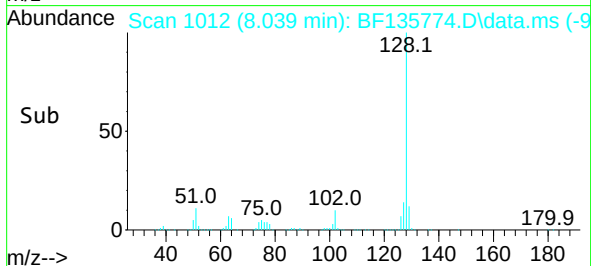
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:128 Resp: 94163  
Ion Ratio Lower Upper  
128 100  
129 11.5 8.7 13.1  
127 13.7 10.2 15.4

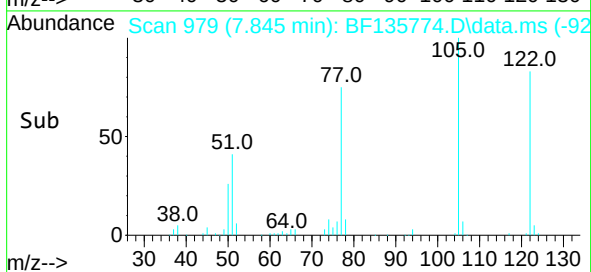
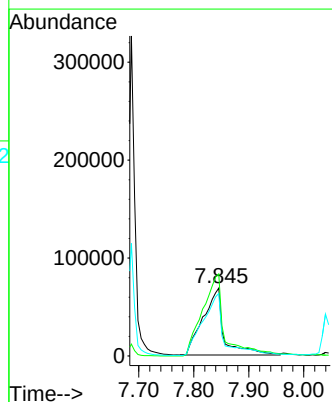
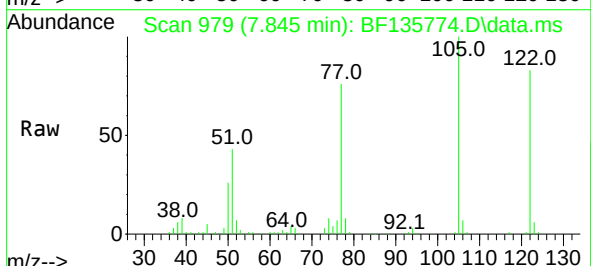
Manual Integrations  
APPROVED

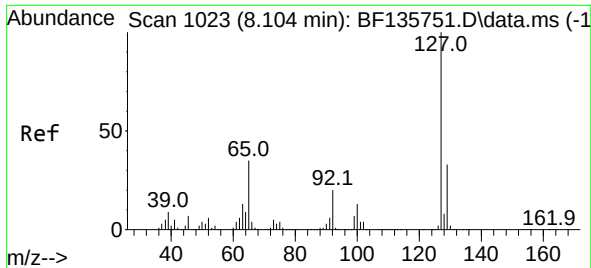
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#32  
Benzoic acid  
Concen: 50.592 ng  
RT: 7.845 min Scan# 979  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

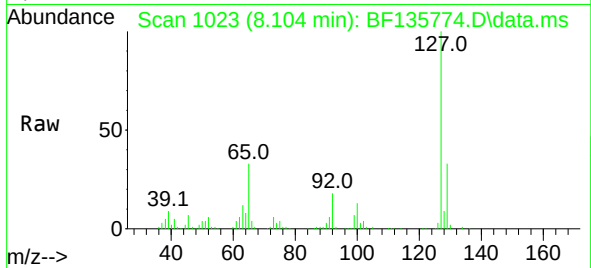
Tgt Ion:122 Resp: 182297  
Ion Ratio Lower Upper  
122 100  
105 121.0 98.7 138.7  
77 92.2 67.8 107.8





#33  
4-Chloroaniline  
Concen: 16.220 ng  
RT: 8.104 min Scan# 1023  
Delta R.T. -0.000 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

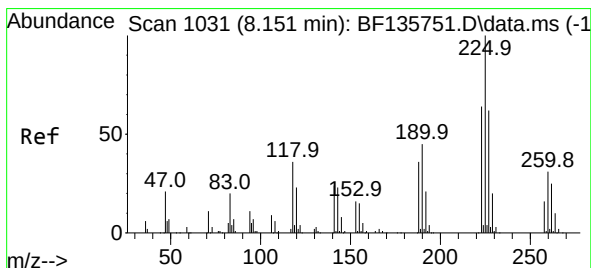
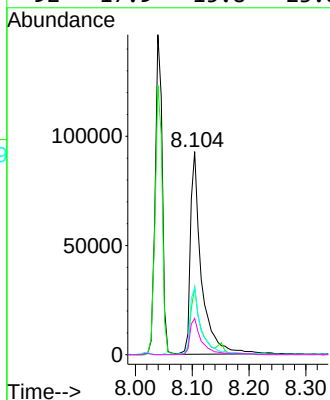
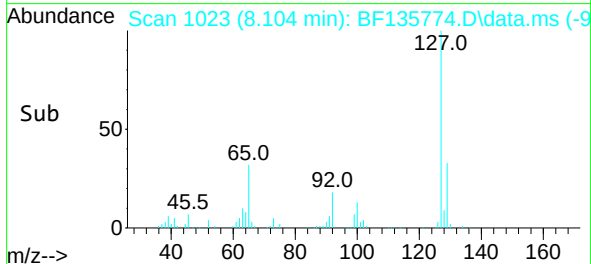
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:127 Resp: 125490  
Ion Ratio Lower Upper  
127 100  
129 33.2 26.5 39.7  
65 33.0 27.9 41.9  
92 17.9 15.8 23.8

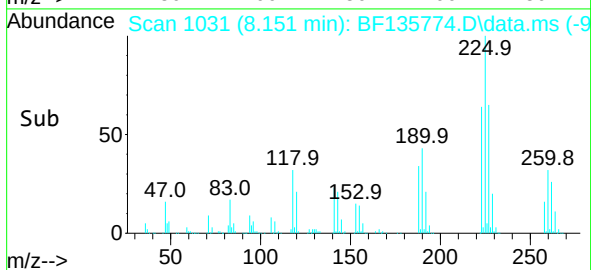
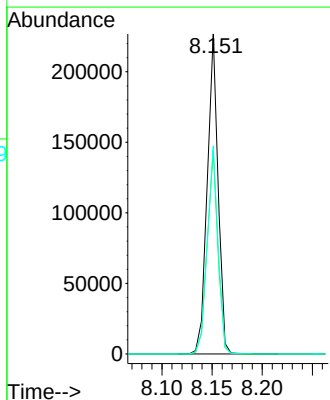
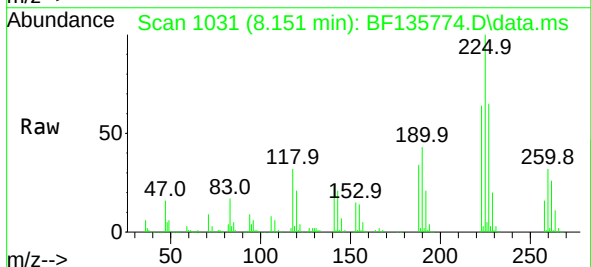
Manual Integrations  
APPROVED

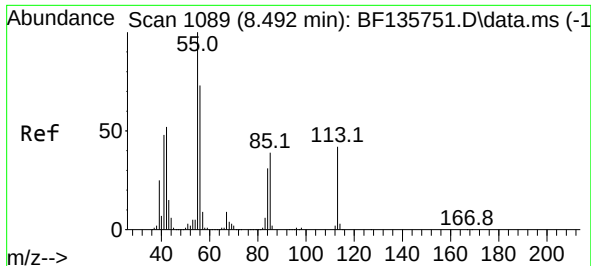
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#34  
Hexachlorobutadiene  
Concen: 56.822 ng  
RT: 8.151 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

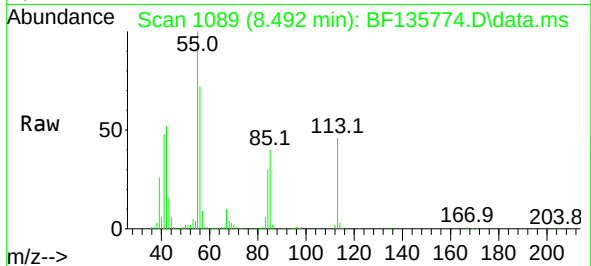
Tgt Ion:225 Resp: 171604  
Ion Ratio Lower Upper  
225 100  
223 63.7 51.1 76.7  
227 65.0 49.7 74.5





#35  
Caprolactam  
Concen: 56.774 ng m  
RT: 8.492 min Scan# 1089  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

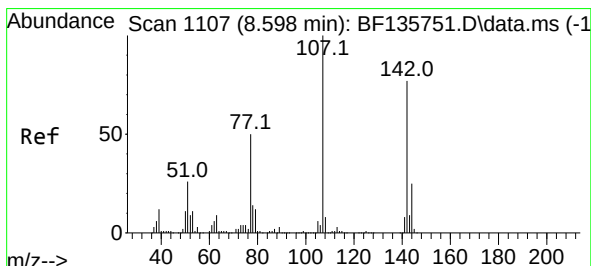
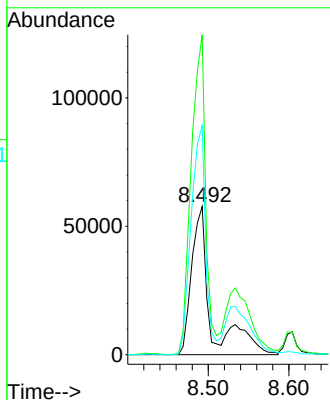
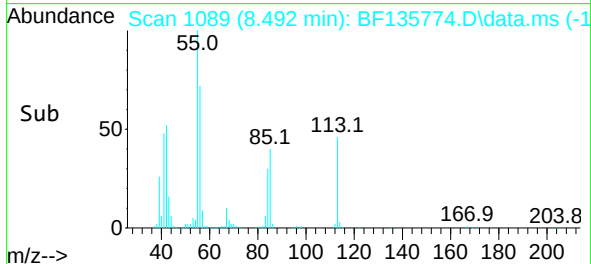
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:113 Resp: 96820  
Ion Ratio Lower Upper  
113 100  
55 215.9 217.4 257.4  
56 154.5 153.1 193.1

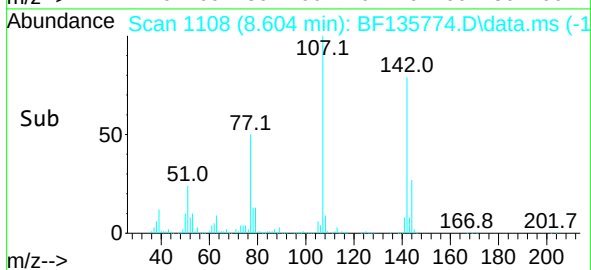
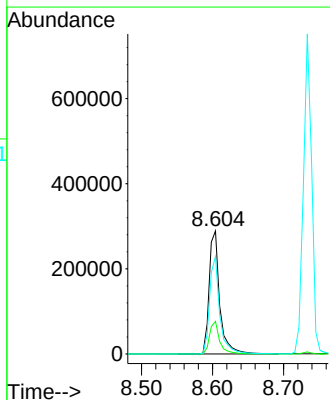
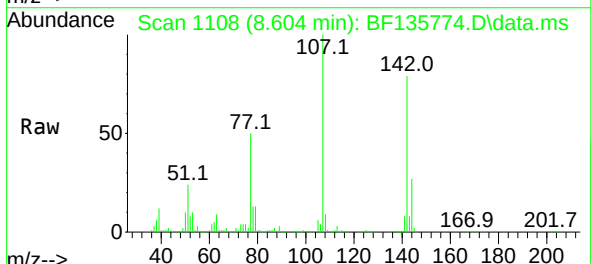
Manual Integrations  
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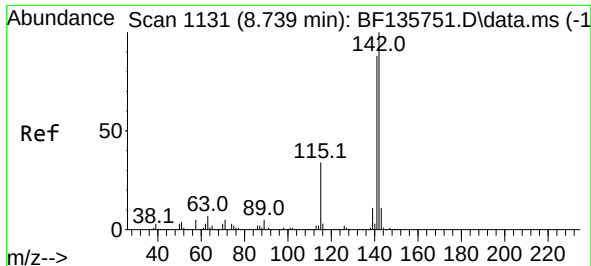
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#36  
4-Chloro-3-methylphenol  
Concen: 54.380 ng  
RT: 8.604 min Scan# 1108  
Delta R.T. 0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

Tgt Ion:107 Resp: 300838  
Ion Ratio Lower Upper  
107 100  
144 26.6 19.8 29.8  
142 79.1 61.3 91.9





#37

2-Methylnaphthalene

Concen: 51.795 ng

RT: 8.733 min Scan# 1131

Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

PP-20230928-B6A-0-7.5MSD

Tgt Ion:142 Resp: 604380

Ion Ratio Lower Upper

142 100

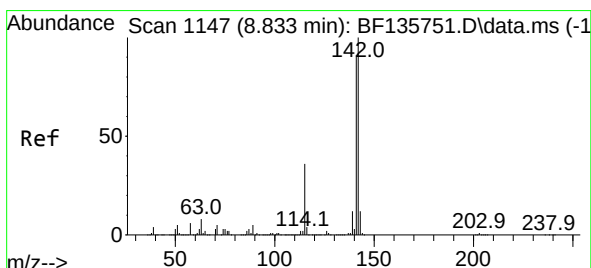
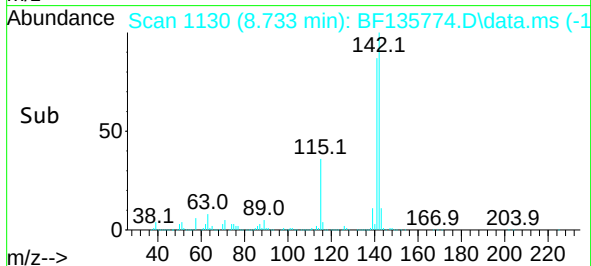
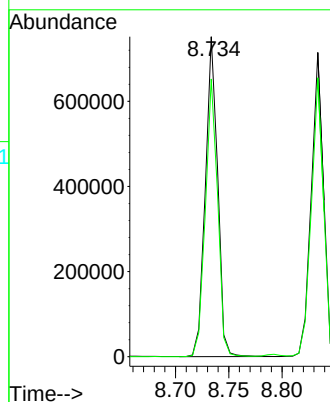
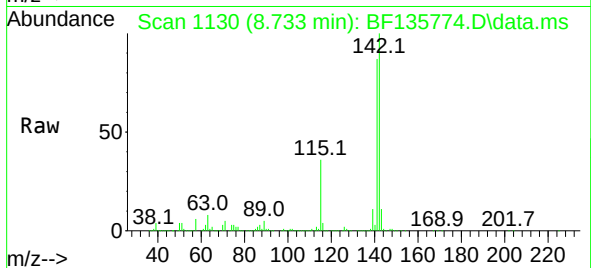
141 86.8 70.6 105.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#38

1-Methylnaphthalene

Concen: 52.965 ng

RT: 8.834 min Scan# 1147

Delta R.T. -0.006 min

Lab File: BF135774.D

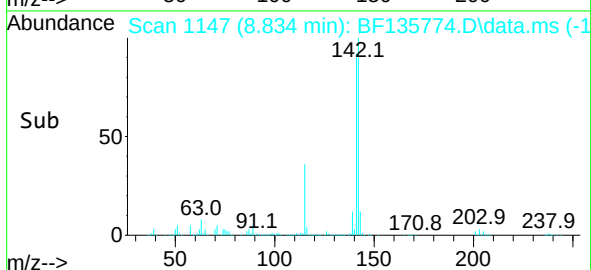
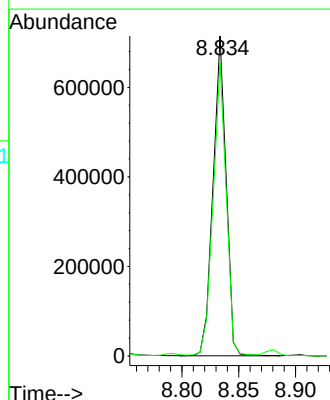
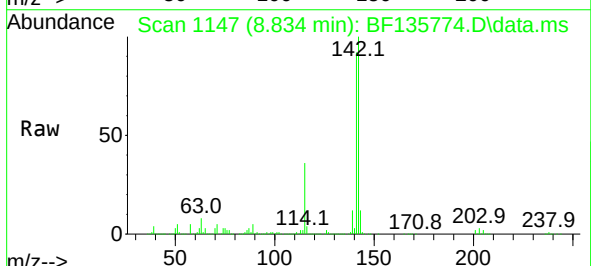
Acq: 16 Oct 2023 13:43

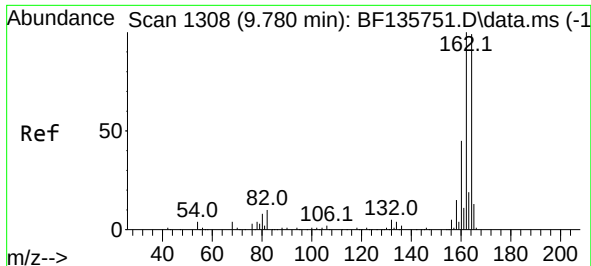
Tgt Ion:142 Resp: 570041

Ion Ratio Lower Upper

142 100

141 91.7 72.7 109.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.781 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135774.D

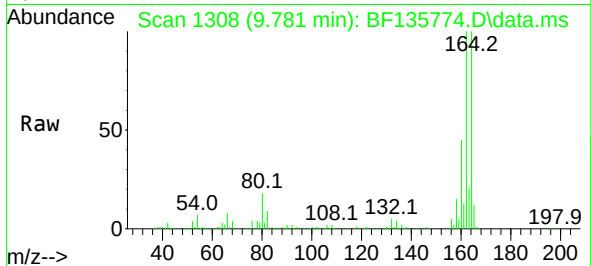
Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

PP-20230928-B6A-0-7.5MSD



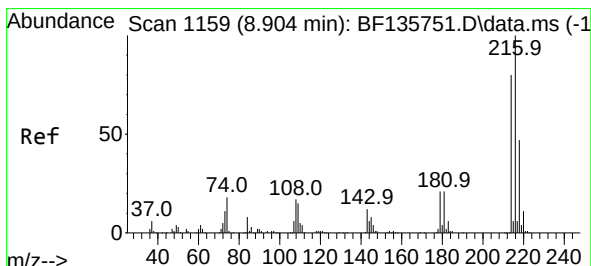
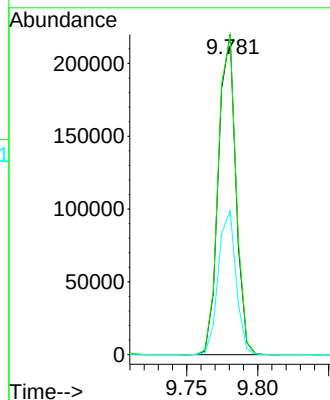
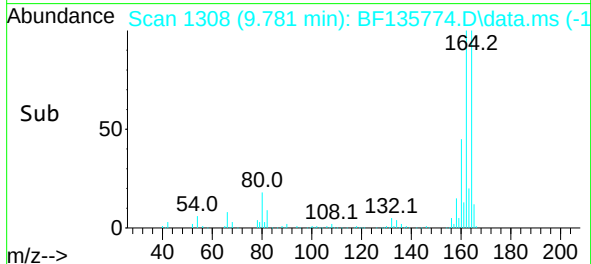
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:164 | Resp: | 18719      |
| Ion Ratio   | Lower | Upper      |
| 164         | 100   |            |
| 162         | 99.7  | 80.8 121.2 |
| 160         | 45.0  | 36.6 54.8  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#40

1,2,4,5-Tetrachlorobenzene

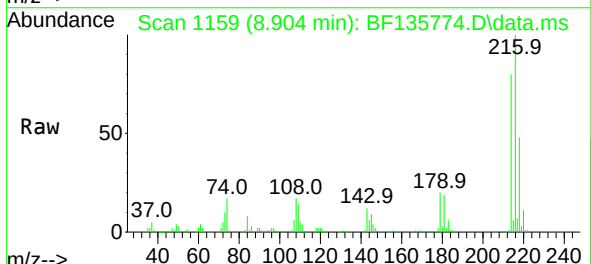
Concen: 54.429 ng

RT: 8.904 min Scan# 1159

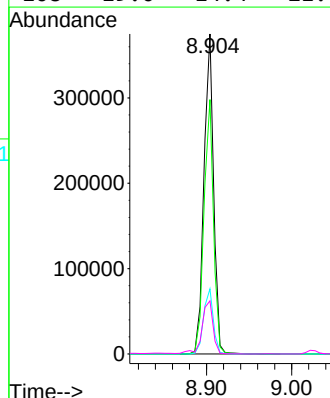
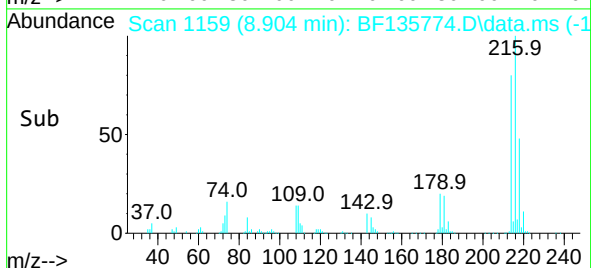
Delta R.T. -0.006 min

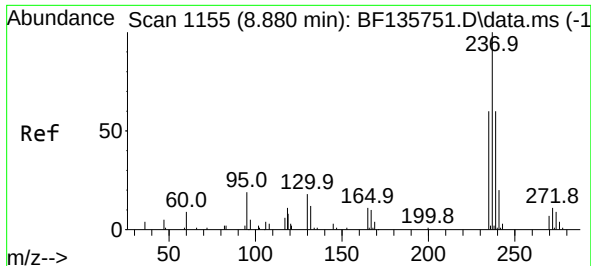
Lab File: BF135774.D

Acq: 16 Oct 2023 13:43



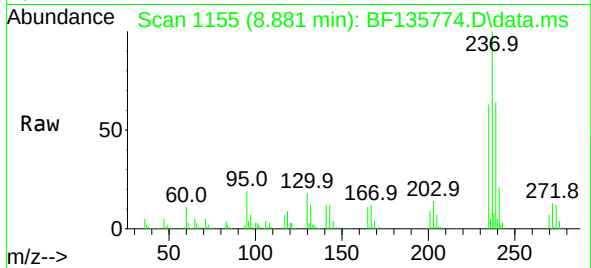
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:216 | Resp: | 293091    |
| Ion Ratio   | Lower | Upper     |
| 216         | 100   |           |
| 214         | 78.8  | 64.0 96.0 |
| 179         | 20.6  | 16.9 25.3 |
| 108         | 19.0  | 14.4 21.6 |





#41  
Hexachlorocyclopentadiene  
Concen: 76.099 ng  
RT: 8.881 min Scan# 1155  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

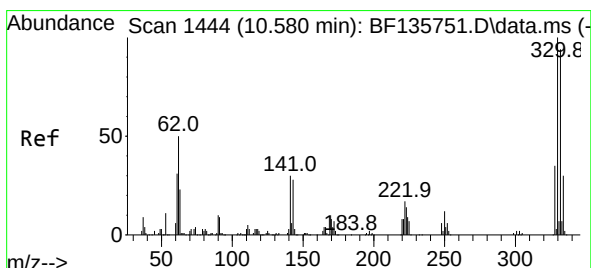
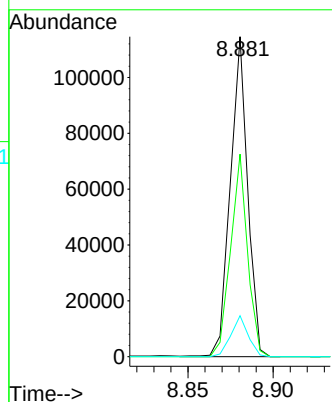
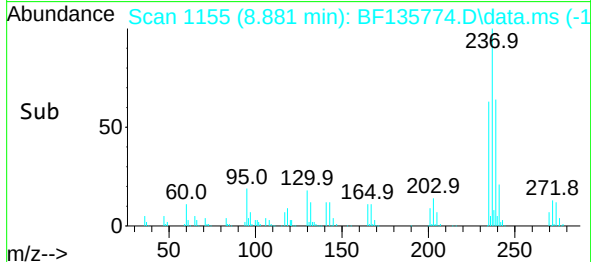
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



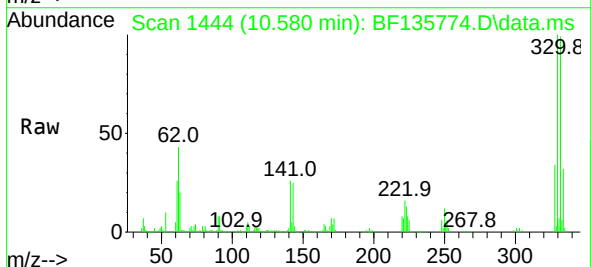
Tgt Ion:237 Resp: 80988  
Ion Ratio Lower Upper  
237 100  
235 63.3 40.0 80.0  
272 12.8 0.0 30.9

Manual Integrations  
APPROVED

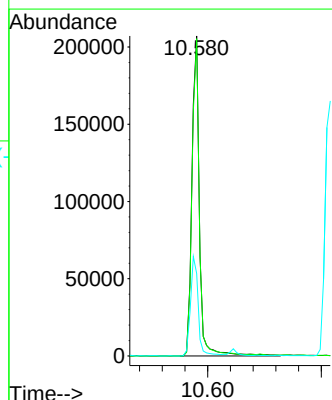
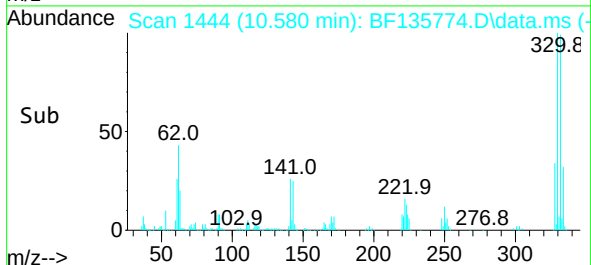
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



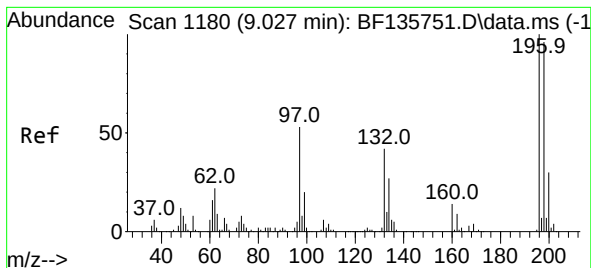
#42  
2,4,6-Tribromophenol  
Concen: 105.371 ng  
RT: 10.580 min Scan# 1444  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43



Tgt Ion:330 Resp: 189278  
Ion Ratio Lower Upper  
330 100  
332 97.1 75.0 112.4  
141 31.8 25.8 38.6







#43

2,4,6-Trichlorophenol

Concen: 54.874 ng

RT: 9.022 min Scan# 1179

Delta R.T. -0.006 min

Lab File: BF135774.D

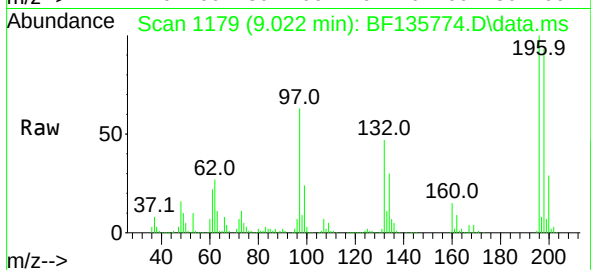
Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

PP-20230928-B6A-0-7.5MSD



Tgt Ion:196 Resp: 19041

Ion Ratio Lower Upper

196 100

198 93.0 76.7 115.1

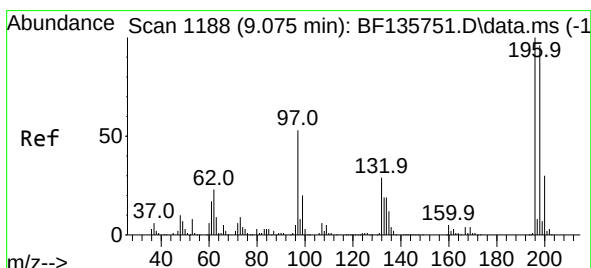
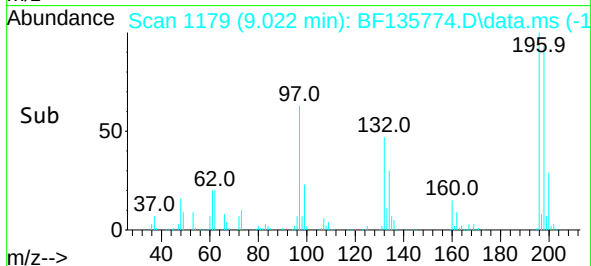
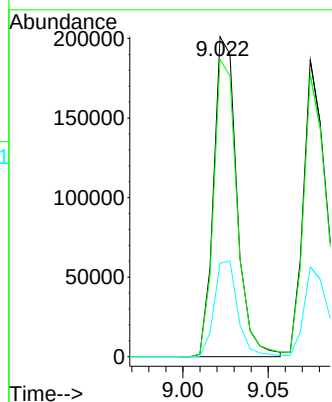
200 29.2 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#44

2,4,5-Trichlorophenol

Concen: 49.133 ng

RT: 9.075 min Scan# 1188

Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Tgt Ion:196 Resp: 198298

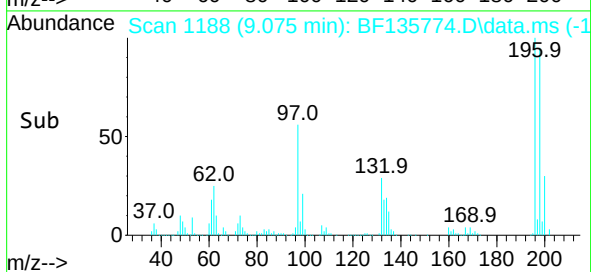
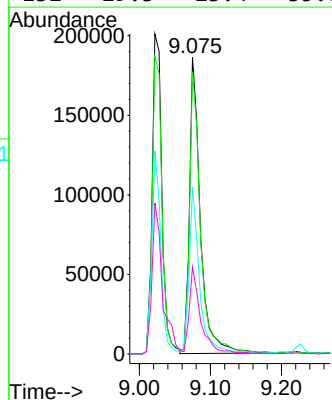
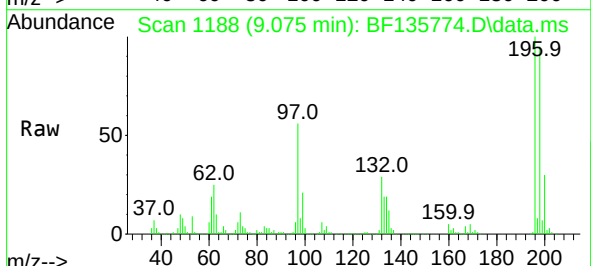
Ion Ratio Lower Upper

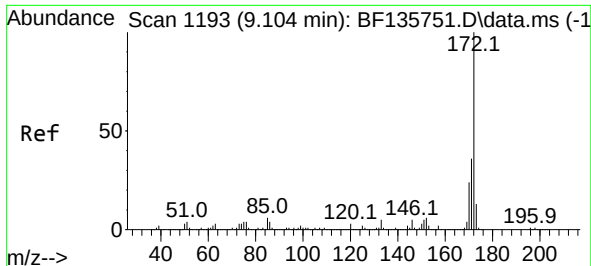
196 100

198 95.0 77.0 115.6

97 56.3 42.2 63.2

132 29.3 23.4 35.0





#45

2-Fluorobiphenyl

Concen: 70.756 ng

RT: 9.098 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF135774.D

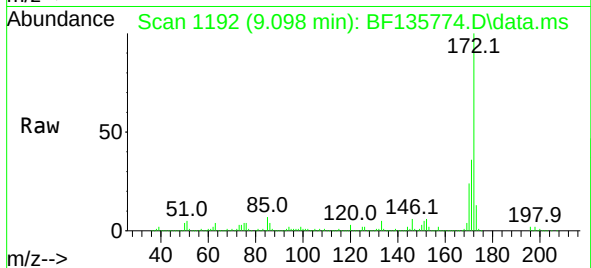
Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

PP-20230928-B6A-0-7.5MSD



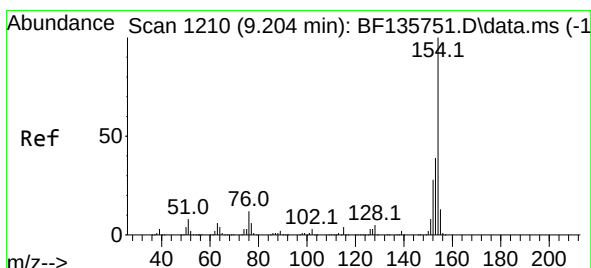
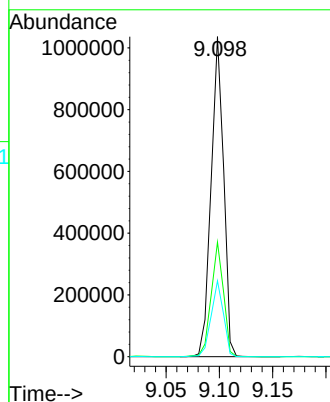
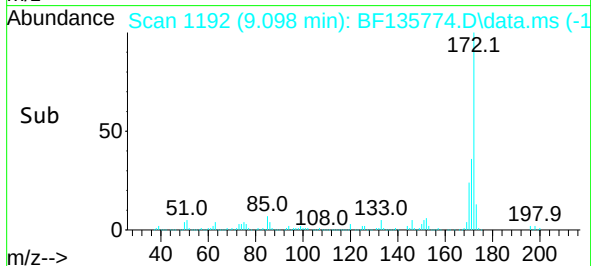
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 84715 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 35.8  | 28.4  | 42.6  |
| 170       | 23.7  | 18.8  | 28.2  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#46

1,1'-Biphenyl

Concen: 53.365 ng

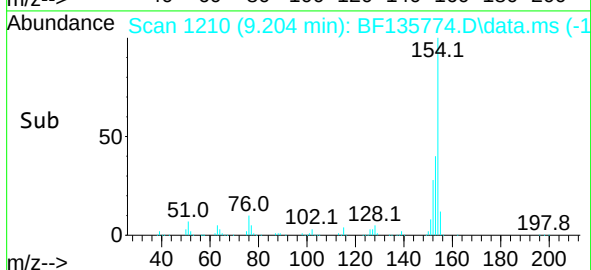
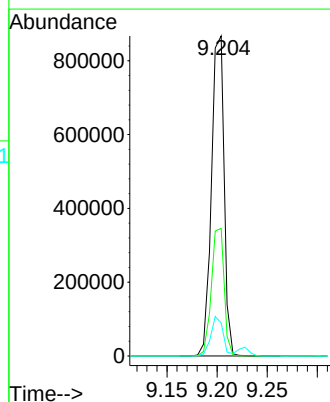
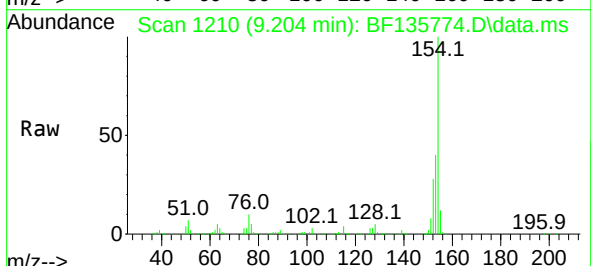
RT: 9.204 min Scan# 1210

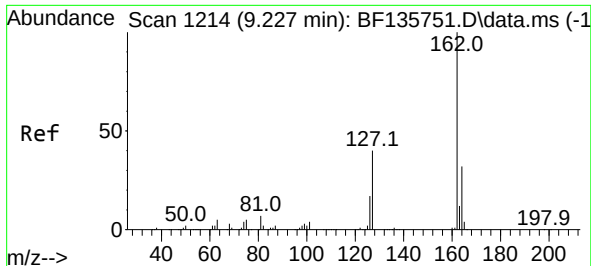
Delta R.T. -0.000 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

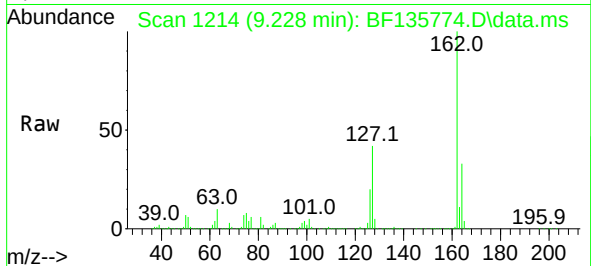
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 765238 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 39.9  | 19.4  | 59.4   |
| 76        | 10.4  | 0.0   | 31.7   |





#47  
2-Chloronaphthalene  
Concen: 55.616 ng  
RT: 9.228 min Scan# 1214  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

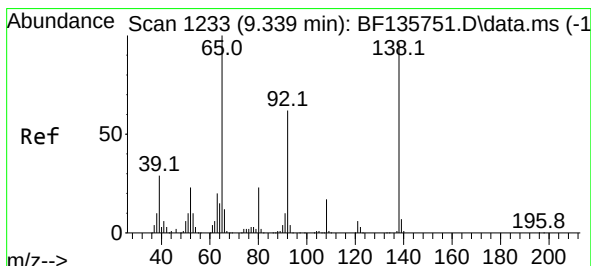
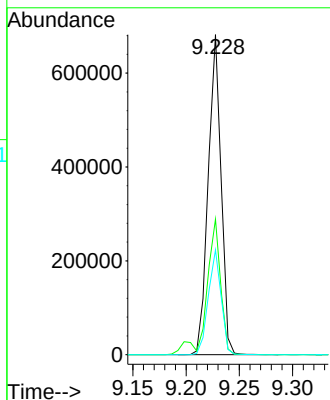
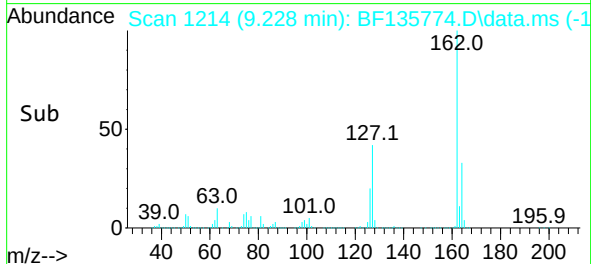
Instrument : BNA\_F  
ClientSampleId : PP-20230928-B6A-0-7.5MSD



Tgt Ion:162 Resp: 57476  
Ion Ratio Lower Upper  
162 100  
127 42.4 34.7 52.1  
164 32.7 25.6 38.4

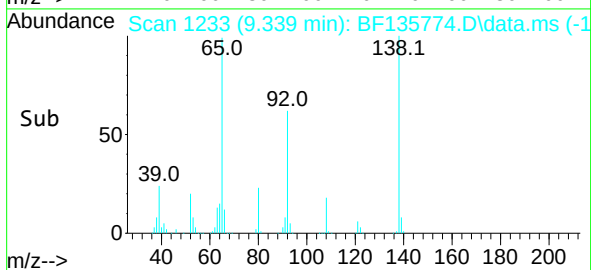
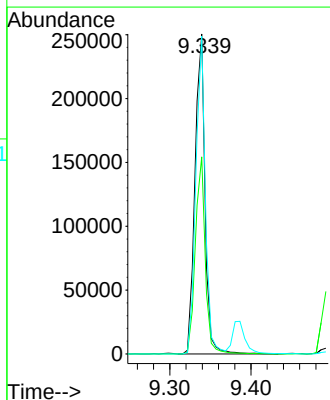
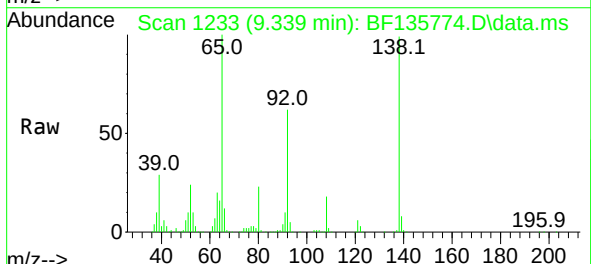
Manual Integrations  
APPROVED

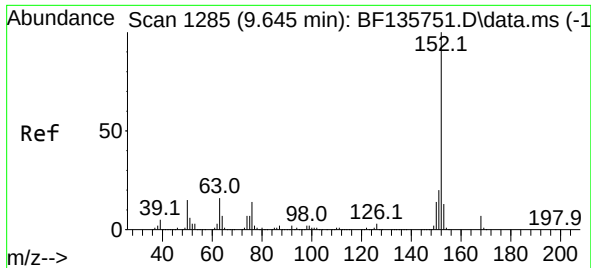
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#48  
2-Nitroaniline  
Concen: 53.143 ng  
RT: 9.339 min Scan# 1233  
Delta R.T. -0.000 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

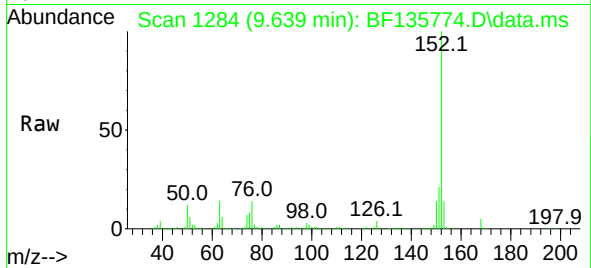
Tgt Ion: 65 Resp: 216784  
Ion Ratio Lower Upper  
65 100  
92 61.6 49.4 74.0  
138 99.2 76.6 114.8





#49  
Acenaphthylene  
Concen: 54.016 ng  
RT: 9.639 min Scan# 1284  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

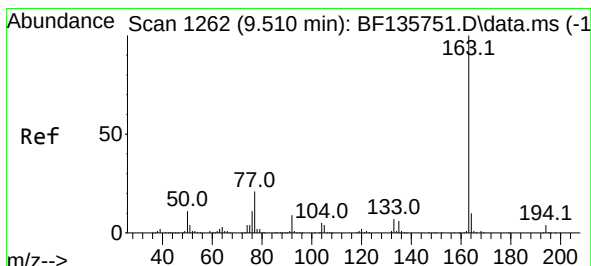
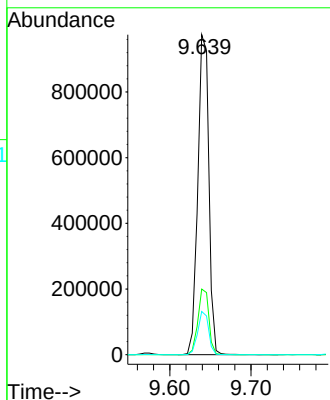
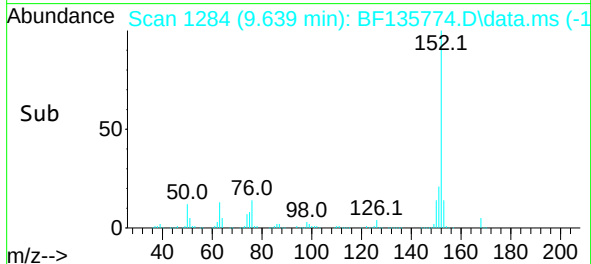
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:152 Resp: 92380  
Ion Ratio Lower Upper  
152 100  
151 20.5 16.2 24.2  
153 13.5 10.2 15.4

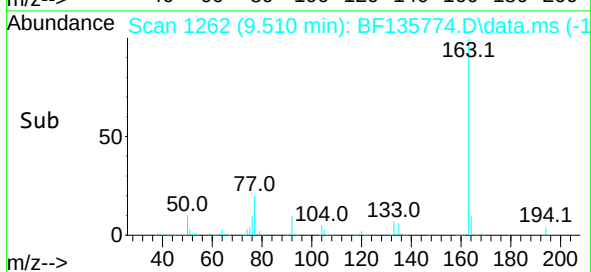
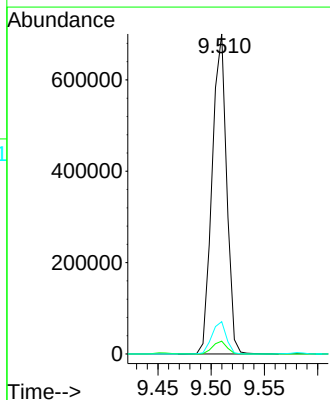
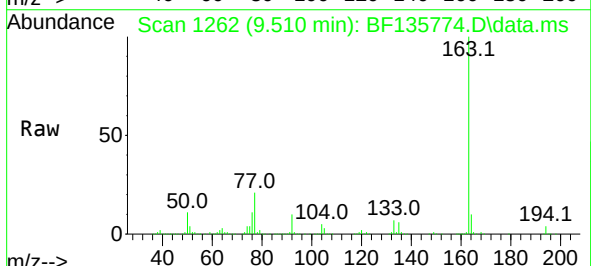
Manual Integrations  
APPROVED

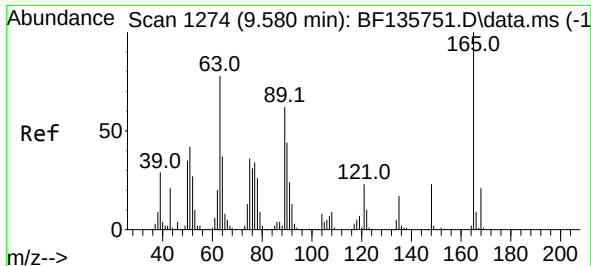
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#50  
Dimethylphthalate  
Concen: 52.717 ng  
RT: 9.510 min Scan# 1262  
Delta R.T. -0.000 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

Tgt Ion:163 Resp: 666189  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.2 4.8  
164 10.1 7.9 11.9





#51

2,6-Dinitrotoluene

Concen: 54.947 ng

RT: 9.581 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

PP-20230928-B6A-0-7.5MSD

Tgt Ion:165 Resp: 14932

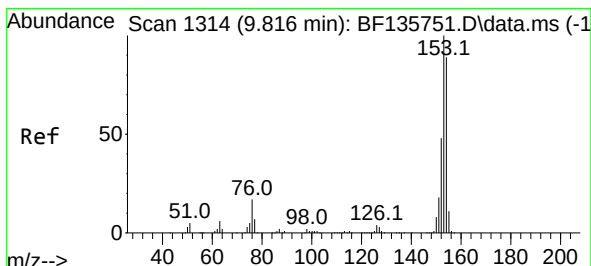
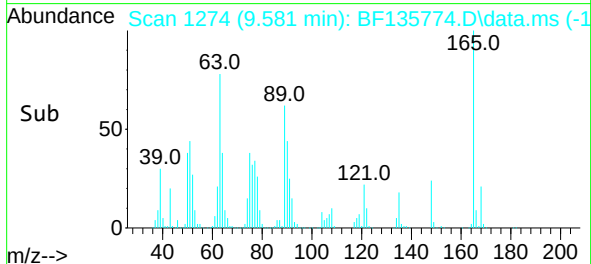
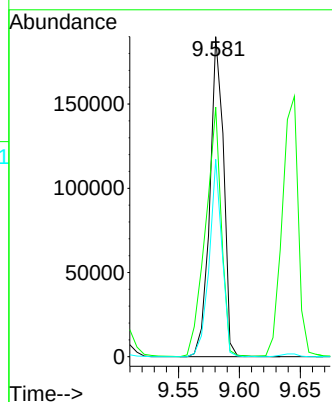
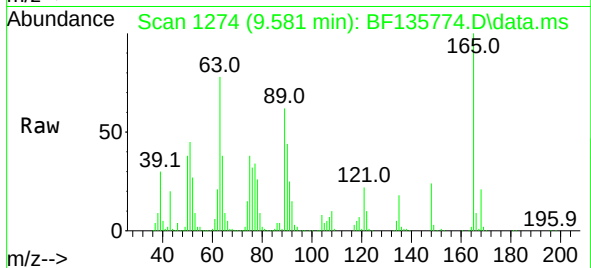
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 78.0  | 62.2  | 93.4  |
| 89  | 61.7  | 49.6  | 74.4  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#52

Acenaphthene

Concen: 53.467 ng

RT: 9.816 min Scan# 1314

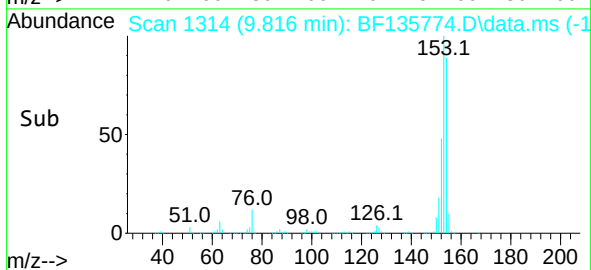
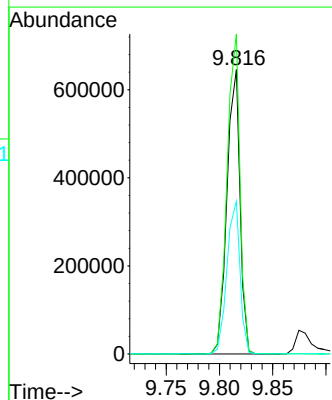
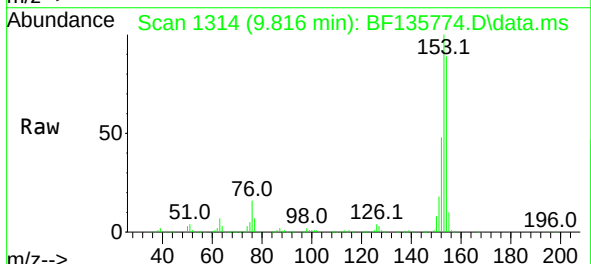
Delta R.T. -0.000 min

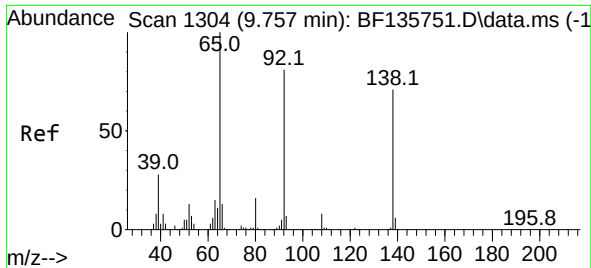
Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Tgt Ion:154 Resp: 548085

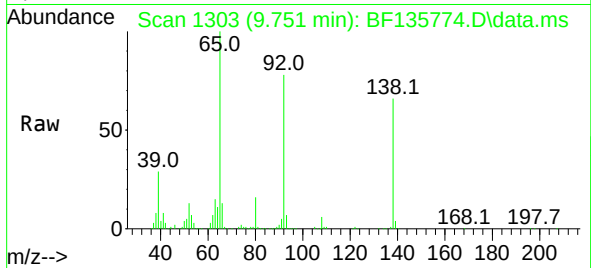
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 154 | 100   |       |       |
| 153 | 112.5 | 90.1  | 135.1 |
| 152 | 53.7  | 43.1  | 64.7  |





#53  
3-Nitroaniline  
Concen: 38.935 ng  
RT: 9.751 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

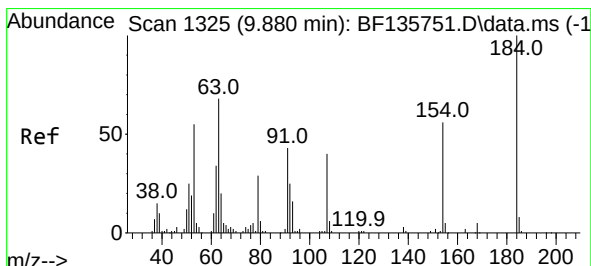
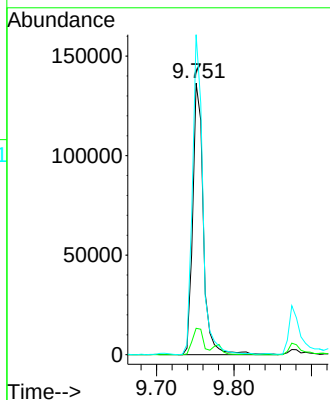
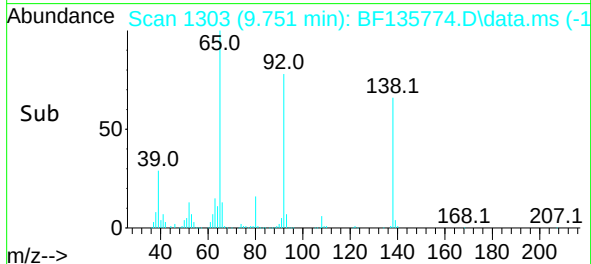
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:138 Resp: 129705  
Ion Ratio Lower Upper  
138 100  
108 9.7 8.6 13.0  
92 117.9 91.3 136.9

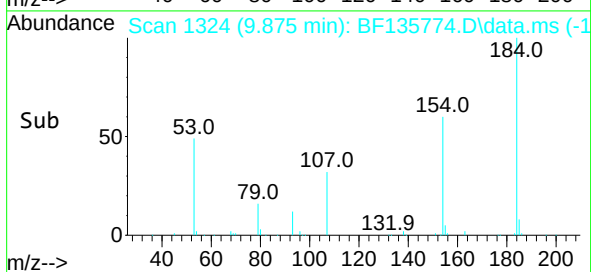
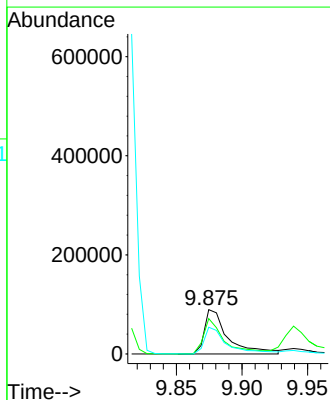
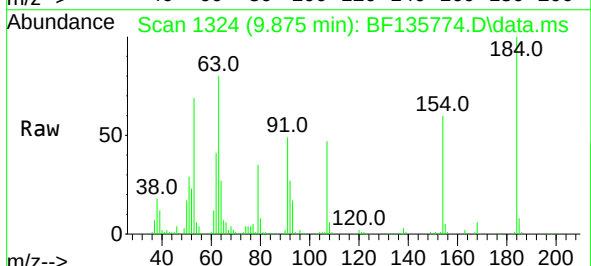
Manual Integrations  
APPROVED

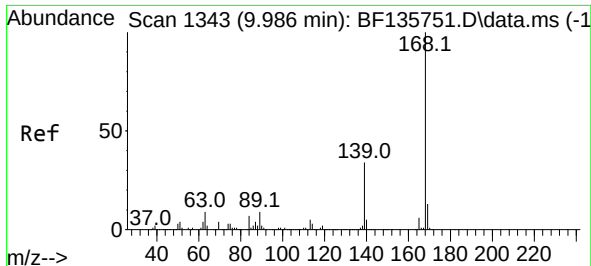
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#54  
2,4-Dinitrophenol  
Concen: 98.785 ng  
RT: 9.875 min Scan# 1324  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

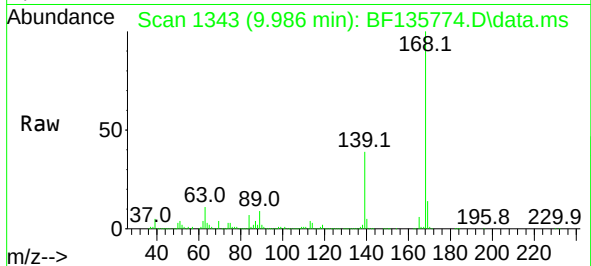
Tgt Ion:184 Resp: 112059  
Ion Ratio Lower Upper  
184 100  
63 79.8 54.6 81.8  
154 60.2 45.0 67.4





#55  
Dibenzenofuran  
Concen: 52.846 ng  
RT: 9.986 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

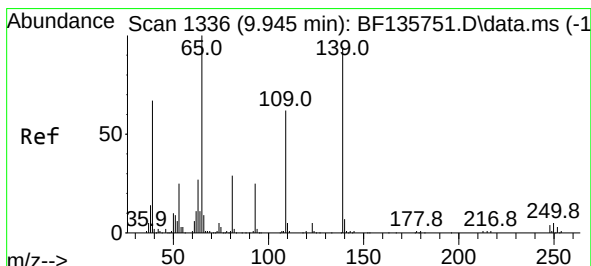
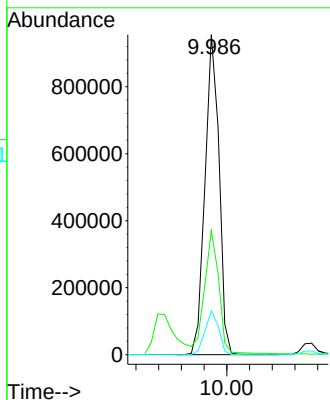
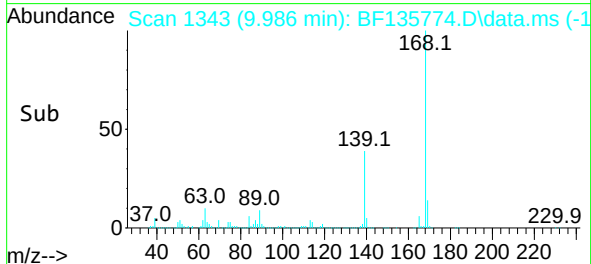
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:168 Resp: 817384  
Ion Ratio Lower Upper  
168 100  
139 38.7 31.0 46.4  
169 13.7 10.7 16.1

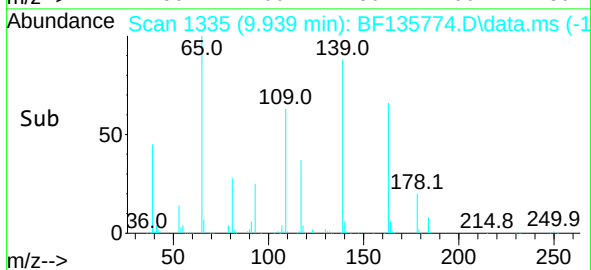
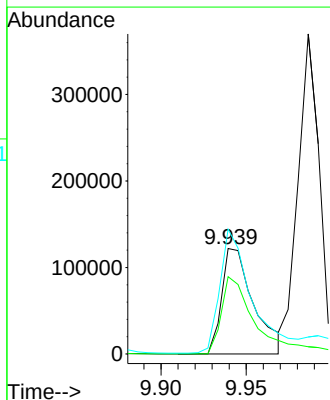
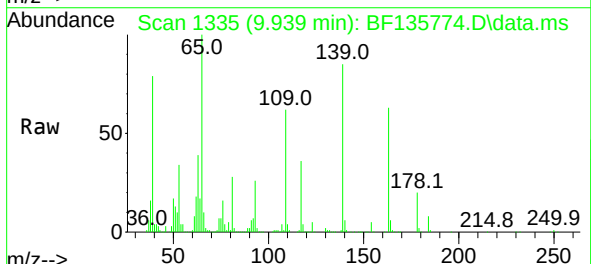
Manual Integrations  
APPROVED

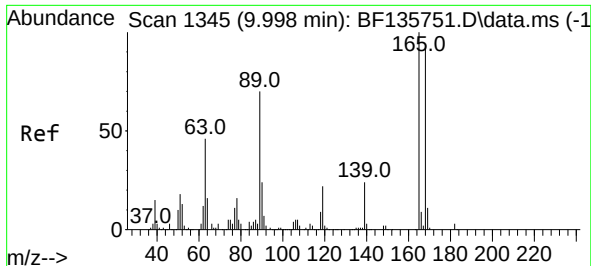
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#56  
4-Nitrophenol  
Concen: 102.545 ng  
RT: 9.939 min Scan# 1335  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

Tgt Ion:139 Resp: 159056  
Ion Ratio Lower Upper  
139 100  
109 73.2 45.6 85.6  
65 118.3 87.5 127.5





#57

2,4-Dinitrotoluene

Concen: 54.876 ng

RT: 9.998 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135774.D

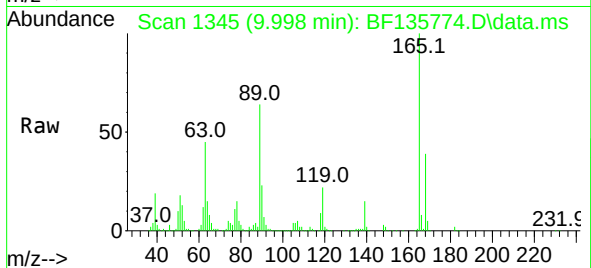
Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

PP-20230928-B6A-0-7.5MSD



Tgt Ion:165 Resp: 18972

Ion Ratio Lower Upper

165 100

63 45.5 39.0 58.4

89 63.8 55.9 83.9

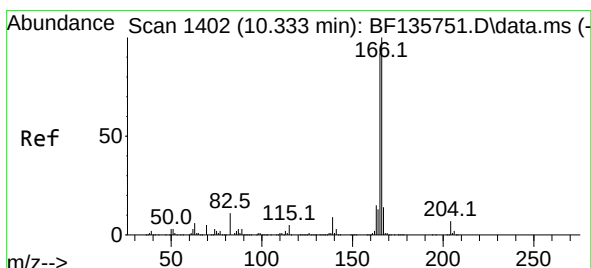
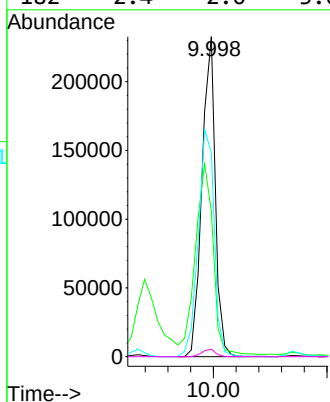
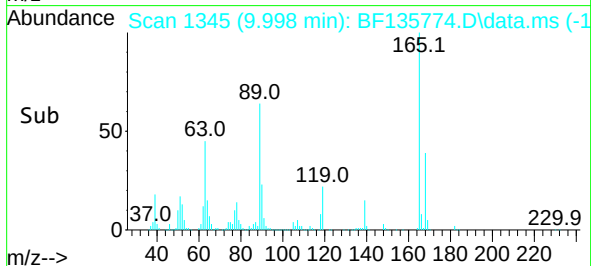
182 2.4 2.0 3.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#58

Fluorene

Concen: 53.720 ng

RT: 10.333 min Scan# 1402

Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

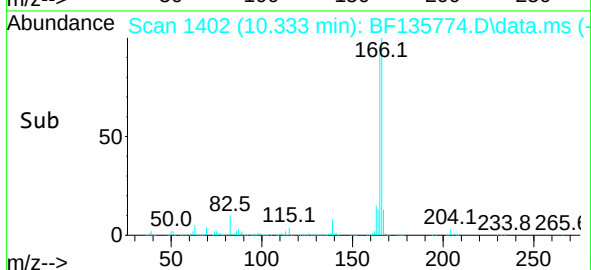
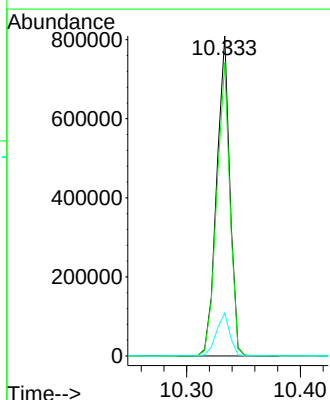
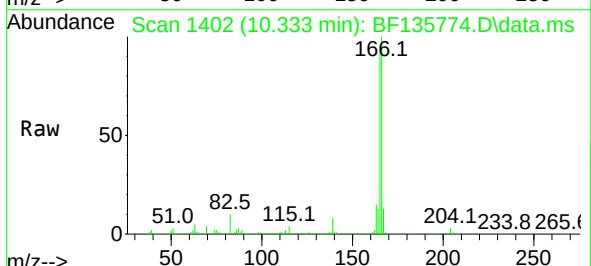
Tgt Ion:166 Resp: 650483

Ion Ratio Lower Upper

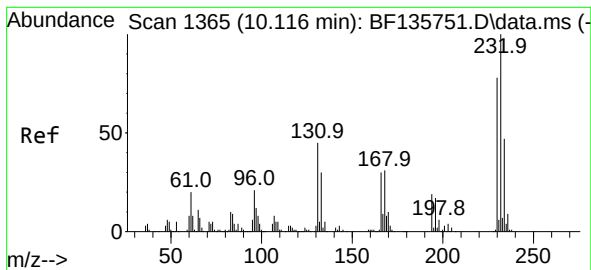
166 100

165 91.6 73.4 110.0

167 13.4 11.0 16.6

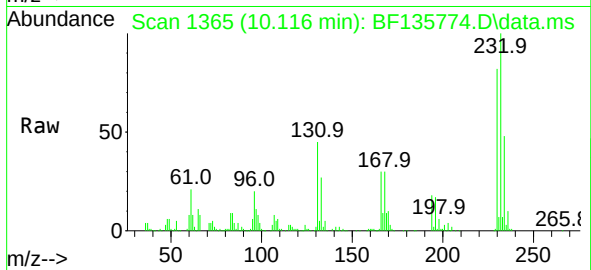






#59  
2,3,4,6-Tetrachlorophenol  
Concen: 53.277 ng  
RT: 10.116 min Scan# 1365  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

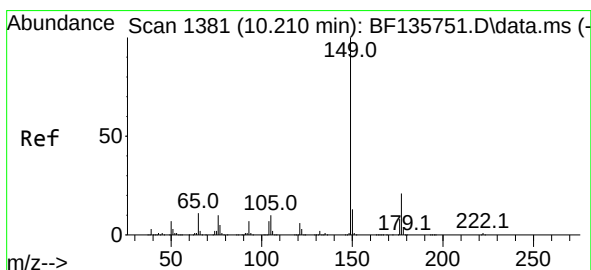
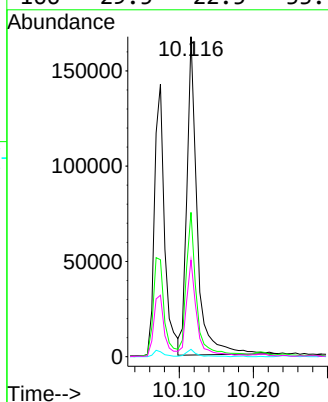
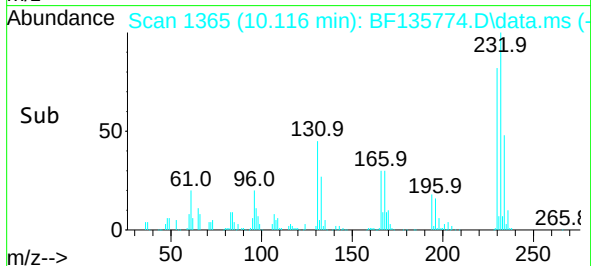
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:232 Resp: 162498  
Ion Ratio Lower Upper  
232 100  
131 43.7 35.8 53.6  
130 2.4 1.9 2.9  
166 29.5 22.5 33.7

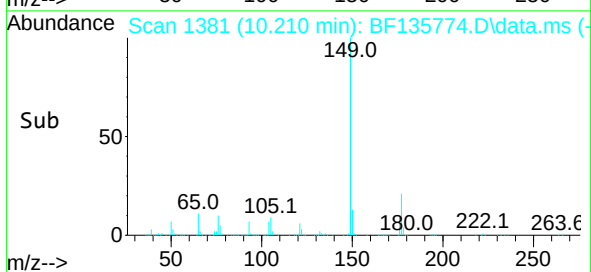
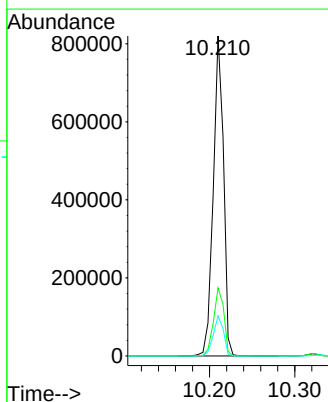
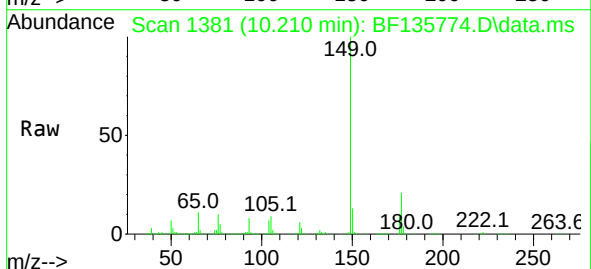
Manual Integrations  
APPROVED

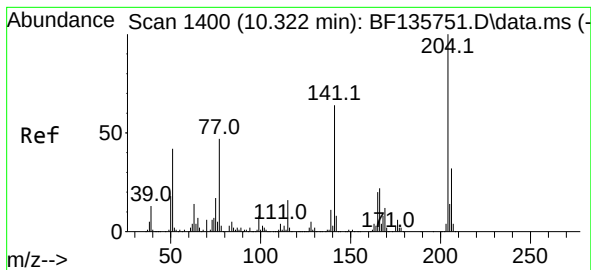
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#60  
Diethylphthalate  
Concen: 53.184 ng  
RT: 10.210 min Scan# 1381  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

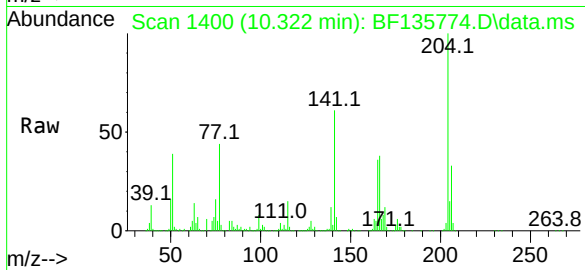
Tgt Ion:149 Resp: 686129  
Ion Ratio Lower Upper  
149 100  
177 21.3 16.9 25.3  
150 12.5 10.2 15.2





#61  
4-Chlorophenyl-phenylether  
Concen: 52.971 ng  
RT: 10.322 min Scan# 1400  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

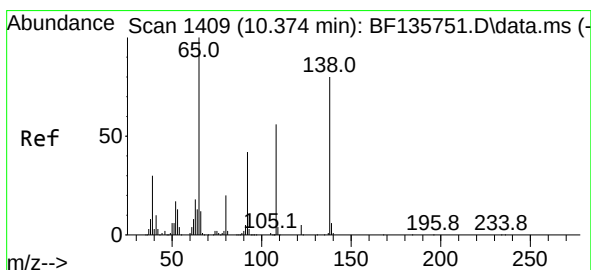
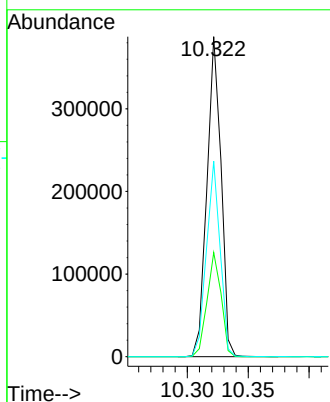
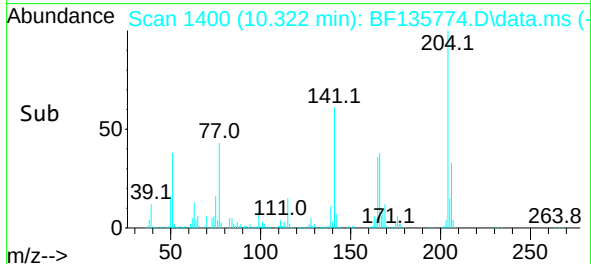
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:204 Resp: 310000  
Ion Ratio Lower Upper  
204 100  
206 32.6 25.8 38.6  
141 61.1 51.4 77.0

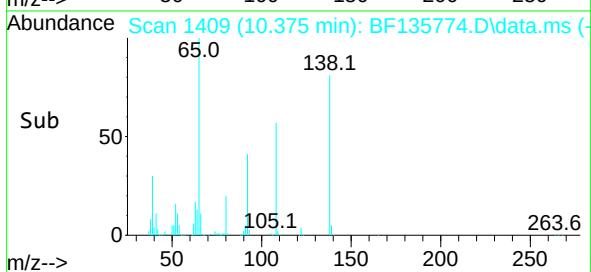
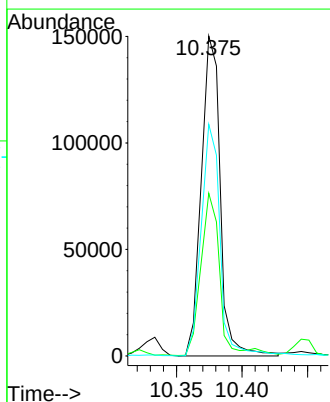
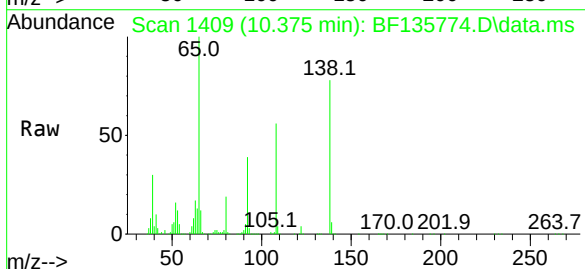
Manual Integrations  
APPROVED

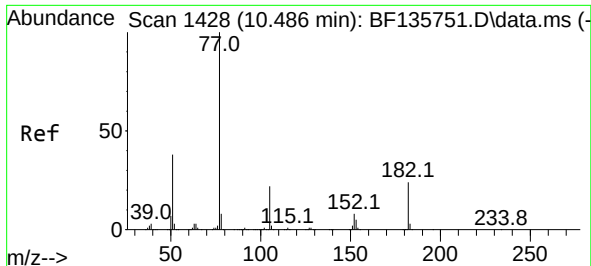
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#62  
4-Nitroaniline  
Concen: 49.312 ng  
RT: 10.375 min Scan# 1409  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

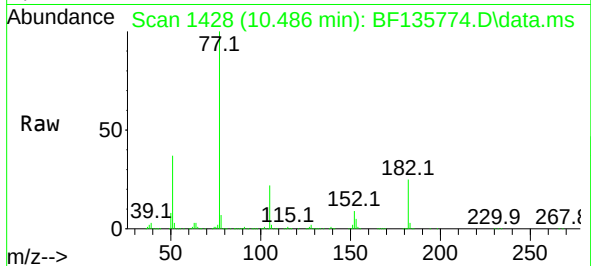
Tgt Ion:138 Resp: 151144  
Ion Ratio Lower Upper  
138 100  
92 50.9 31.9 71.9  
108 72.4 49.7 89.7





#63  
Azobenzene  
Concen: 53.932 ng  
RT: 10.486 min Scan# 1428  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

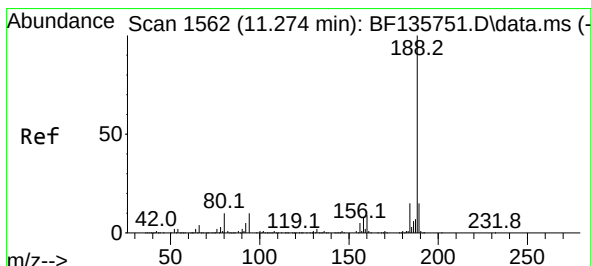
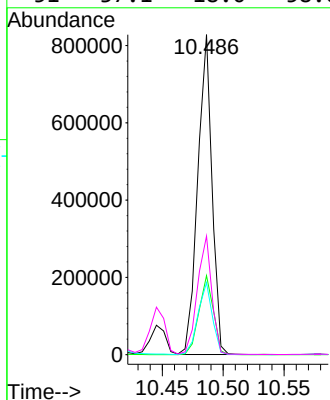
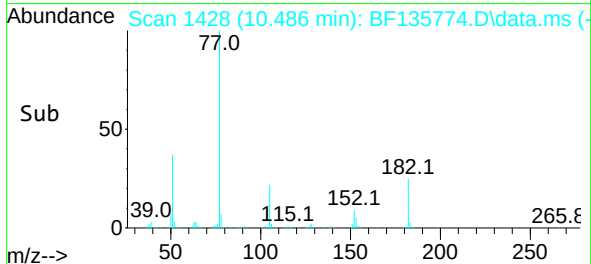
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion: 77 Resp: 675980  
Ion Ratio Lower Upper  
77 100  
182 24.7 3.5 43.5  
105 22.5 2.2 42.2  
51 37.1 18.0 58.0

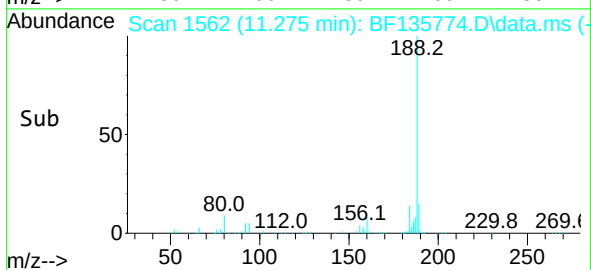
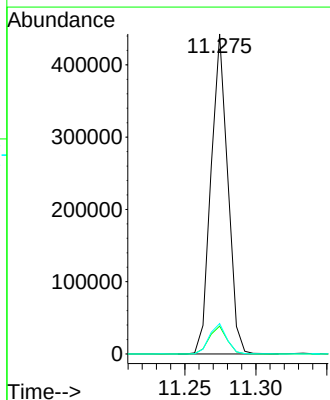
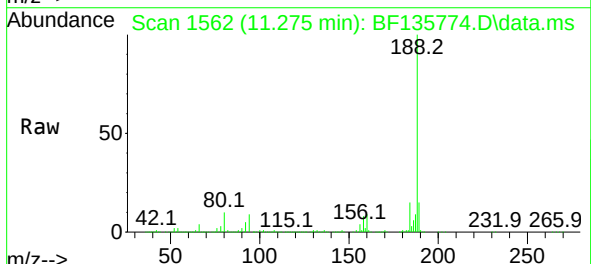
Manual Integrations  
APPROVED

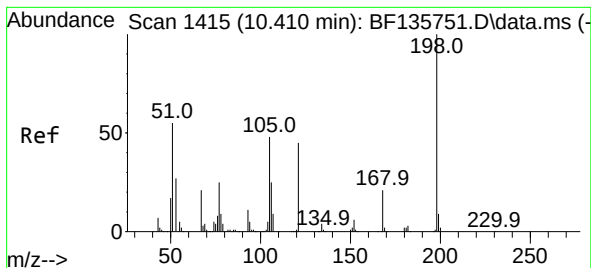
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.275 min Scan# 1562  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

Tgt Ion:188 Resp: 362184  
Ion Ratio Lower Upper  
188 100  
94 8.7 8.0 12.0  
80 9.5 8.3 12.5





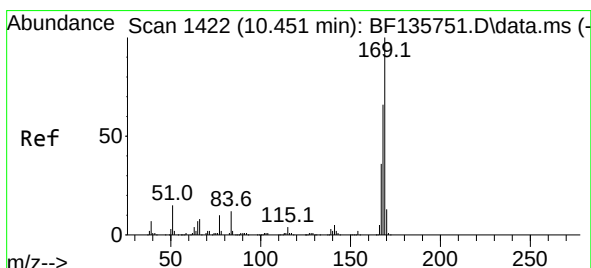
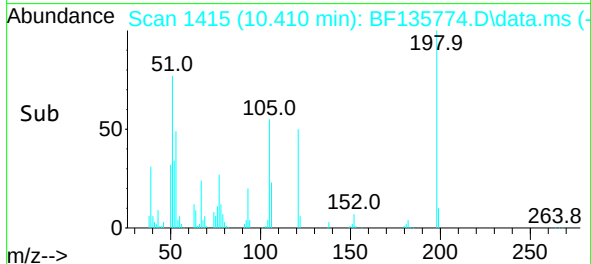
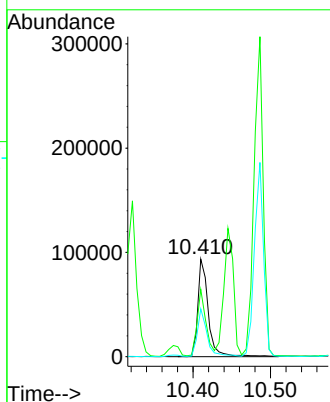
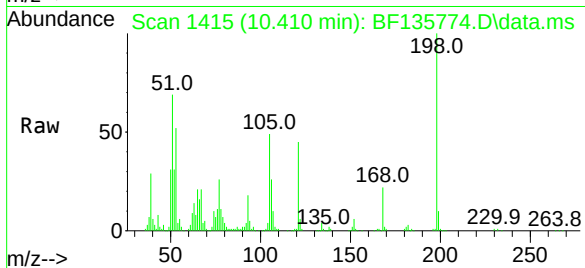
#65  
4,6-Dinitro-2-methylphenol  
Concen: 48.112 ng  
RT: 10.410 min Scan# 1415  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD

Tgt Ion:198 Resp: 87690  
Ion Ratio Lower Upper  
198 100  
51 69.0 47.6 87.6  
105 49.0 29.2 69.2

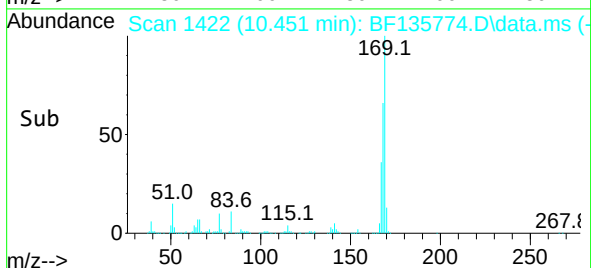
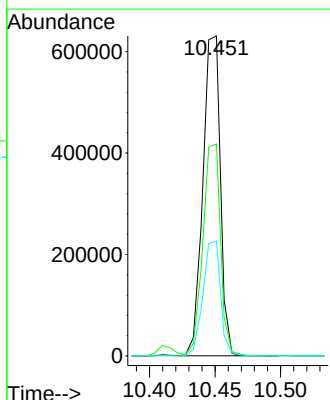
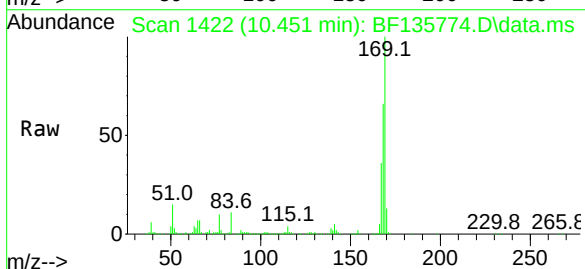
Manual Integrations  
APPROVED

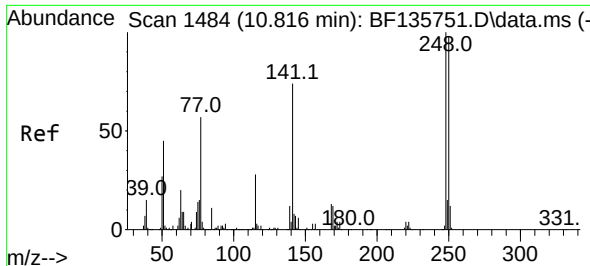
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#66  
n-Nitrosodiphenylamine  
Concen: 53.140 ng  
RT: 10.451 min Scan# 1422  
Delta R.T. -0.000 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

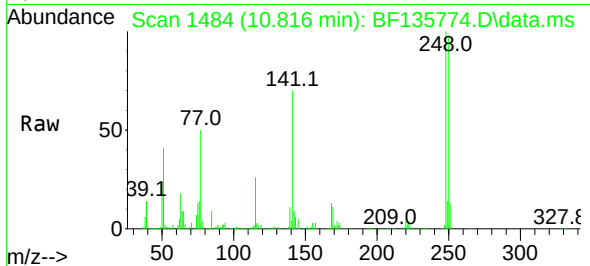
Tgt Ion:169 Resp: 586632  
Ion Ratio Lower Upper  
169 100  
168 66.2 53.4 80.2  
167 35.9 29.2 43.8





#67  
4-Bromophenyl-phenylether  
Concen: 52.962 ng  
RT: 10.816 min Scan# 1484  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

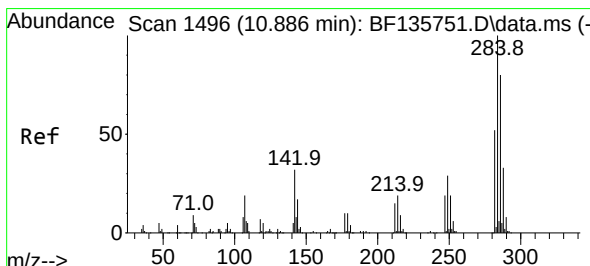
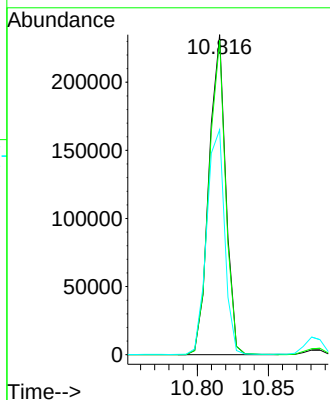
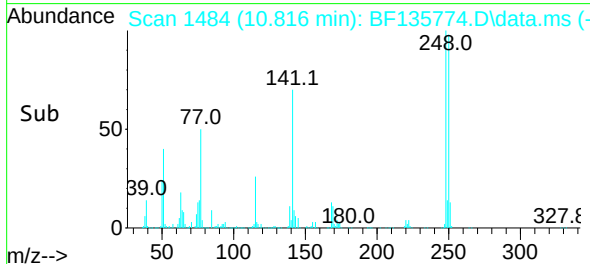
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:248 Resp: 19255  
Ion Ratio Lower Upper  
248 100  
250 98.4 78.0 117.0  
141 70.3 59.0 88.6

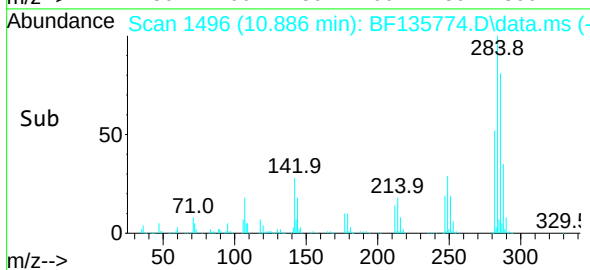
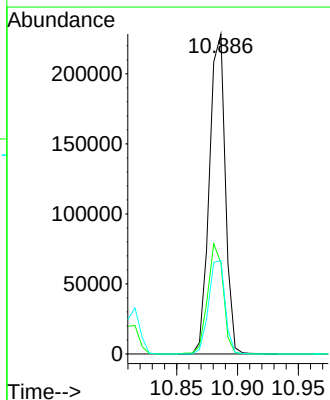
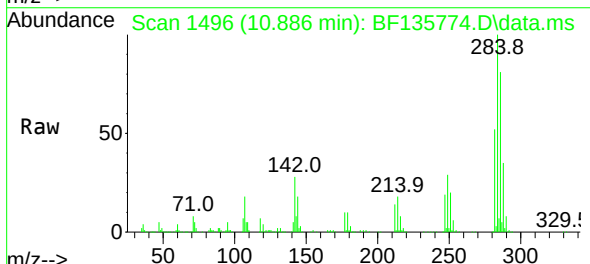
Manual Integrations  
APPROVED

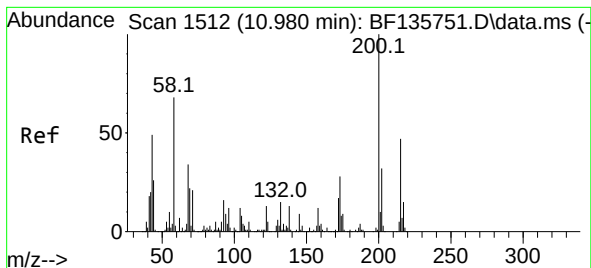
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#68  
Hexachlorobenzene  
Concen: 56.261 ng  
RT: 10.886 min Scan# 1496  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

Tgt Ion:284 Resp: 208253  
Ion Ratio Lower Upper  
284 100  
142 28.4 25.3 37.9  
249 29.2 23.5 35.3





#69

Atrazine

Concen: 61.947 ng

RT: 10.980 min Scan# 1512

Delta R.T. -0.006 min

Lab File: BF135774.D

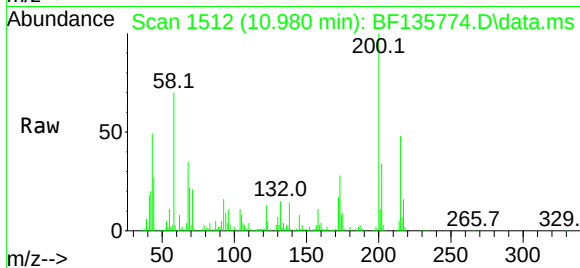
Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

PP-20230928-B6A-0-7.5MSD



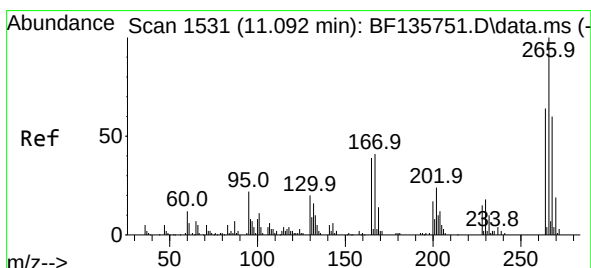
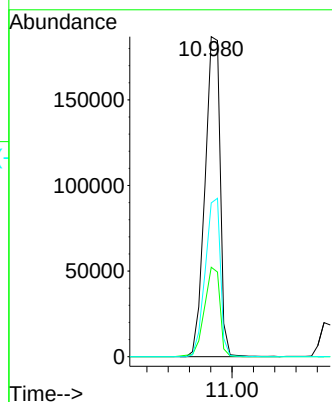
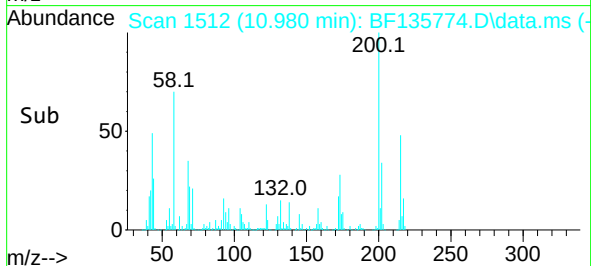
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 200   | Resp: | 18600 |
| Ion Ratio | Lower | Upper |       |
| 200       | 100   |       |       |
| 173       | 28.0  | 7.6   | 47.6  |
| 215       | 48.0  | 27.1  | 67.1  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#70

Pentachlorophenol

Concen: 102.638 ng

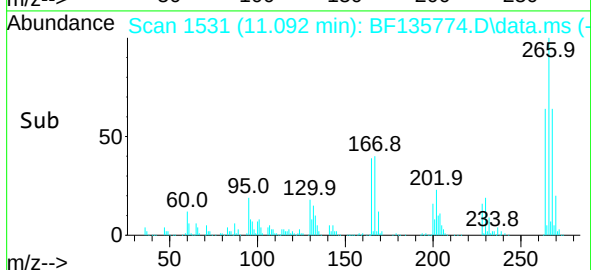
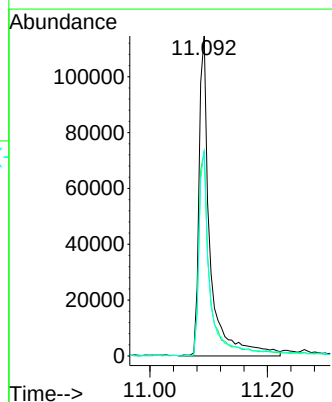
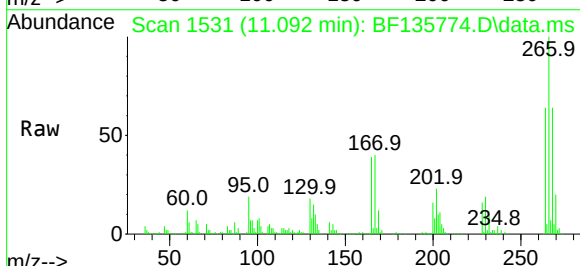
RT: 11.092 min Scan# 1531

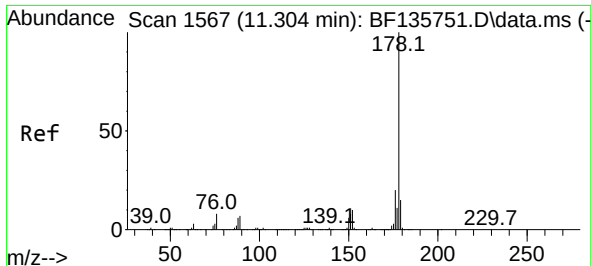
Delta R.T. -0.000 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

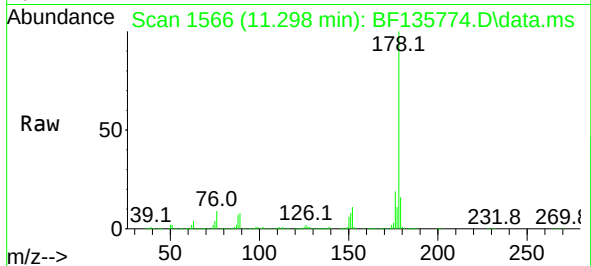
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 266   | Resp: | 149842 |
| Ion Ratio | Lower | Upper |        |
| 266       | 100   |       |        |
| 268       | 63.9  | 47.7  | 71.5   |
| 264       | 64.2  | 51.4  | 77.2   |





#71  
Phenanthrene  
Concen: 53.827 ng  
RT: 11.298 min Scan# 1566  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

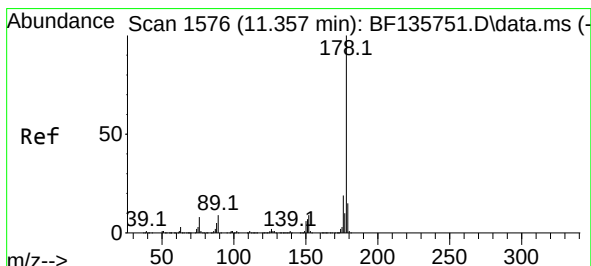
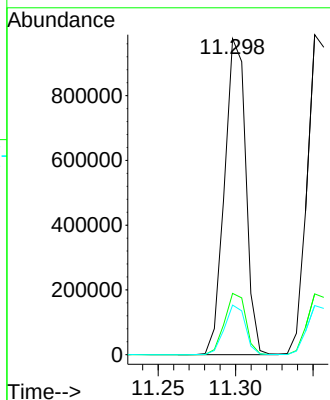
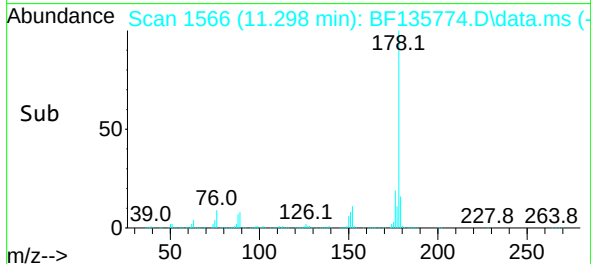
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:178 Resp: 933919  
Ion Ratio Lower Upper  
178 100  
176 19.4 16.0 24.0  
179 15.7 12.2 18.4

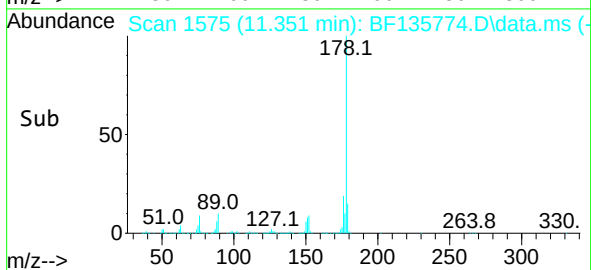
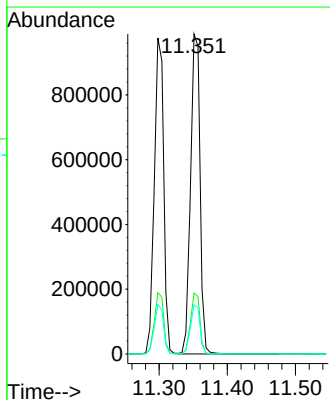
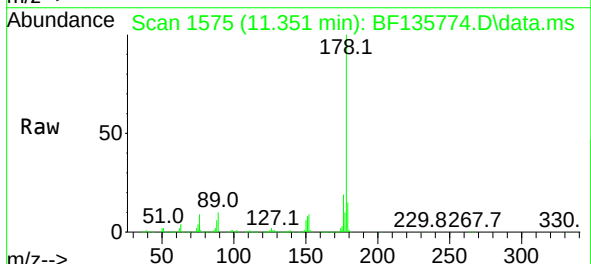
Manual Integrations  
APPROVED

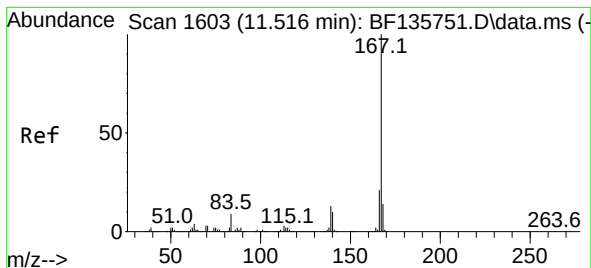
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#72  
Anthracene  
Concen: 52.729 ng  
RT: 11.351 min Scan# 1575  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

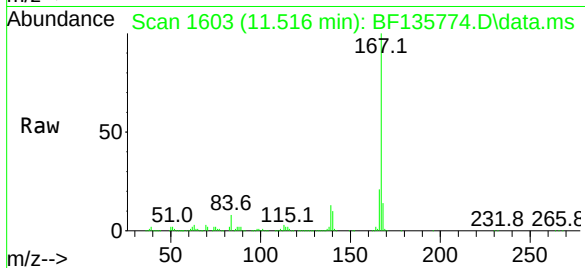
Tgt Ion:178 Resp: 948009  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.1 22.7  
179 15.4 12.3 18.5





#73  
 Carbazole  
 Concen: 51.897 ng  
 RT: 11.516 min Scan# 1603  
 Delta R.T. -0.006 min  
 Lab File: BF135774.D  
 Acq: 16 Oct 2023 13:43

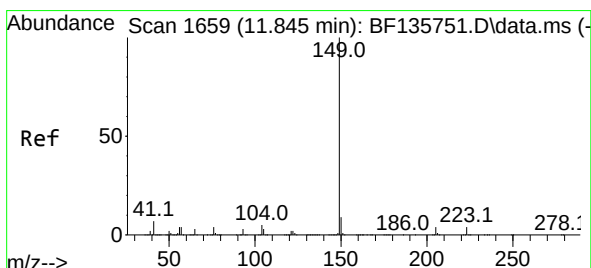
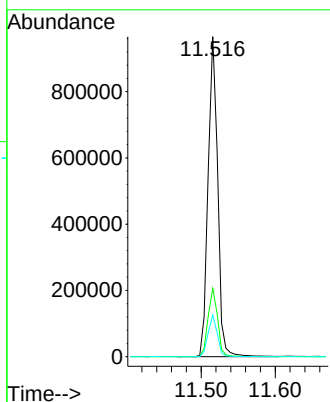
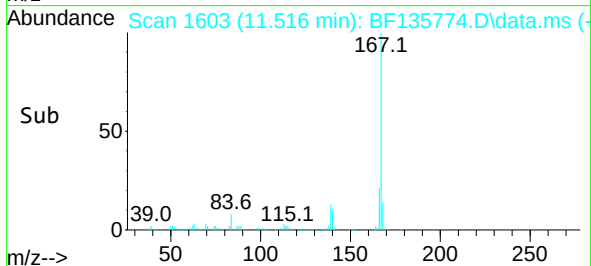
Instrument : BNA\_F  
 ClientSampleId : PP-20230928-B6A-0-7.5MSD



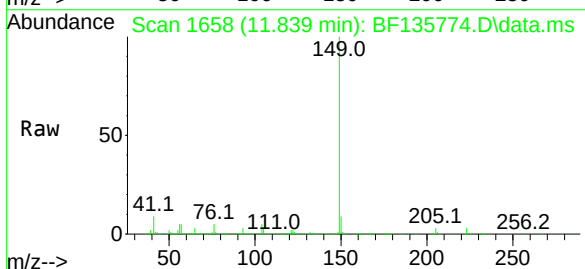
Tgt Ion:167 Resp: 870207  
 Ion Ratio Lower Upper  
 167 100  
 166 21.3 17.1 25.7  
 139 13.0 10.2 15.4

Manual Integrations  
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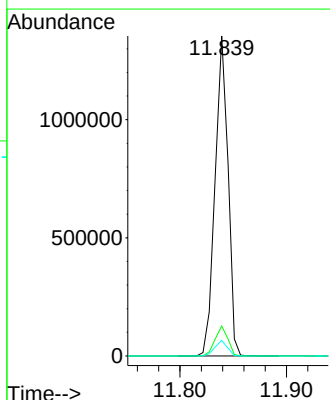
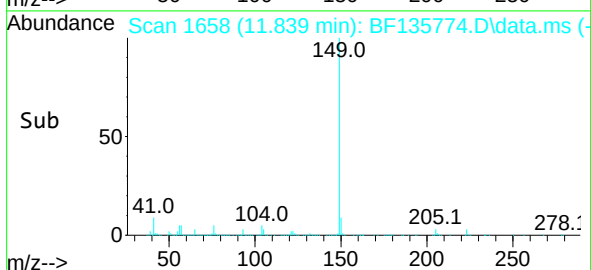
Reviewed By :Yogesh Patel 10/17/2023  
 Supervised By :mohammad ahmed 10/17/2023



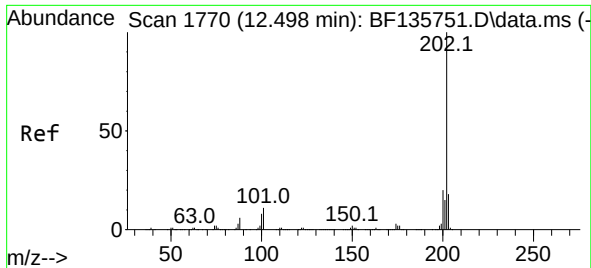
#74  
 Di-n-butylphthalate  
 Concen: 55.355 ng  
 RT: 11.839 min Scan# 1658  
 Delta R.T. -0.006 min  
 Lab File: BF135774.D  
 Acq: 16 Oct 2023 13:43



Tgt Ion:149 Resp: 1139592  
 Ion Ratio Lower Upper  
 149 100  
 150 9.3 7.4 11.2  
 104 4.9 3.7 5.5

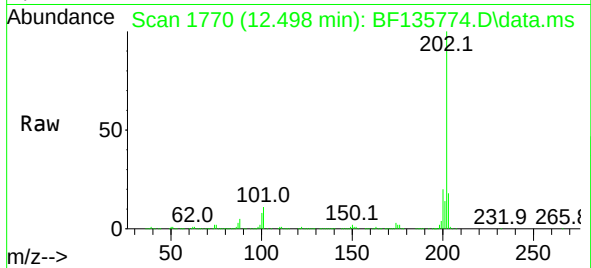






#75  
Fluoranthene  
Concen: 50.543 ng  
RT: 12.498 min Scan# 1770  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

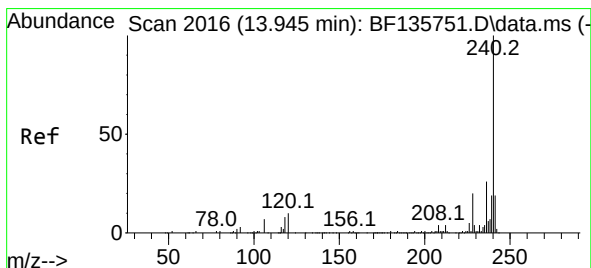
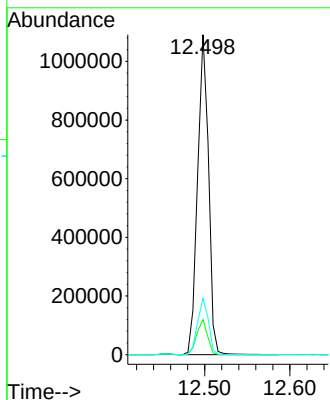
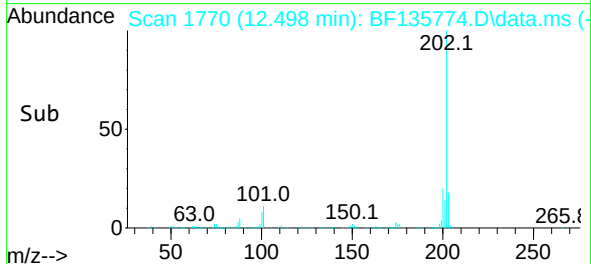
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



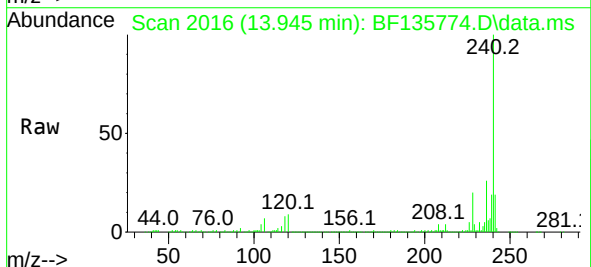
Tgt Ion:202 Resp: 973279  
Ion Ratio Lower Upper  
202 100  
101 11.0 0.0 31.5  
203 17.6 0.0 38.3

Manual Integrations  
APPROVED

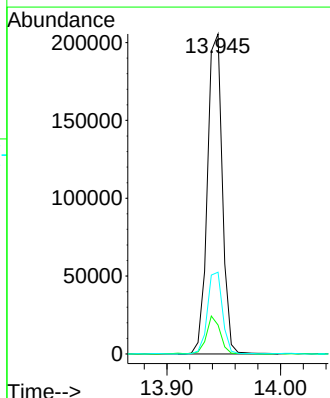
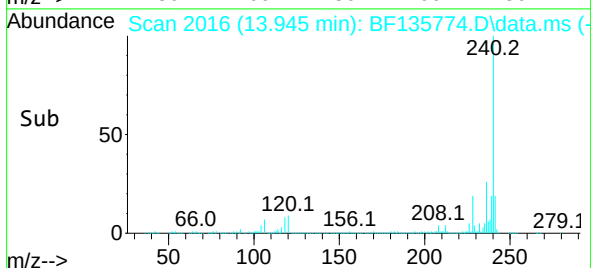
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023

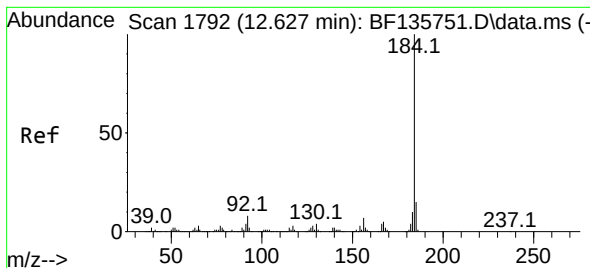


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.945 min Scan# 2016  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43



Tgt Ion:240 Resp: 186522  
Ion Ratio Lower Upper  
240 100  
120 9.1 8.2 12.2  
236 25.6 21.2 31.8





#77

Benzidine

Concen: 39.531 ng

RT: 12.627 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

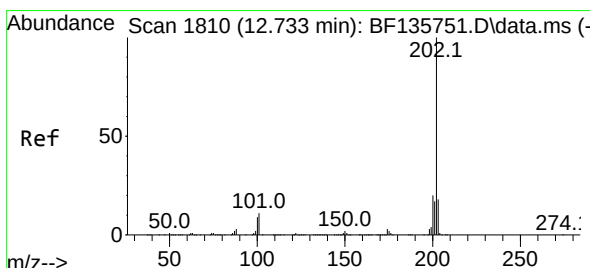
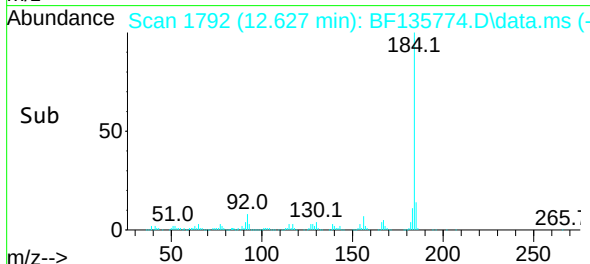
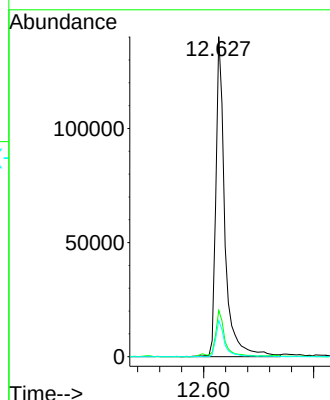
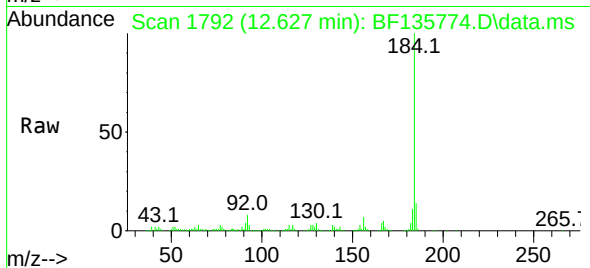
PP-20230928-B6A-0-7.5MSD

Tgt Ion:184 Resp: 16089

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 184 | 100   |       |       |
| 185 | 14.4  | 12.0  | 18.0  |
| 183 | 11.2  | 8.2   | 12.2  |

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#78

Pyrene

Concen: 65.404 ng

RT: 12.727 min Scan# 1809

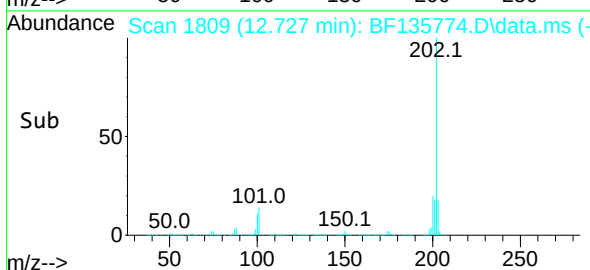
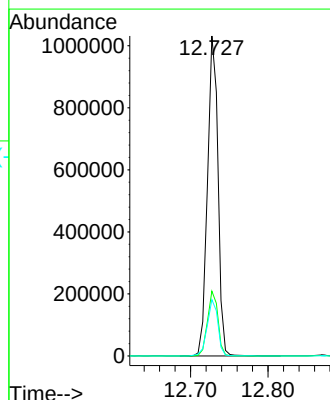
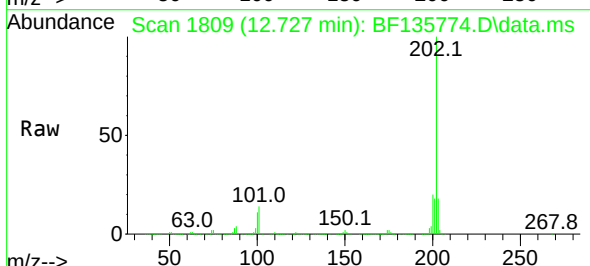
Delta R.T. -0.006 min

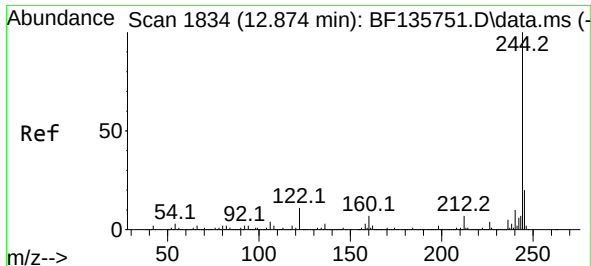
Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Tgt Ion:202 Resp: 969413

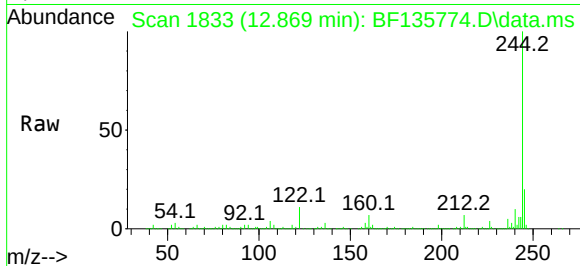
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 20.3  | 16.1  | 24.1  |
| 203 | 17.6  | 14.2  | 21.2  |





#79  
 Terphenyl-d14  
 Concen: 86.548 ng  
 RT: 12.869 min Scan# 1833  
 Delta R.T. -0.012 min  
 Lab File: BF135774.D  
 Acq: 16 Oct 2023 13:43

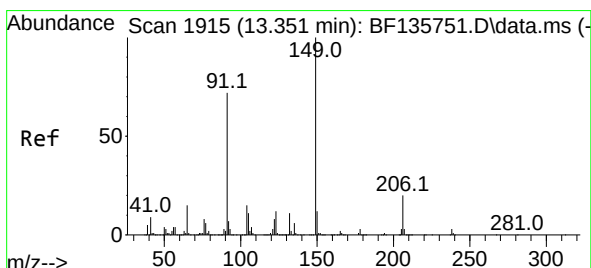
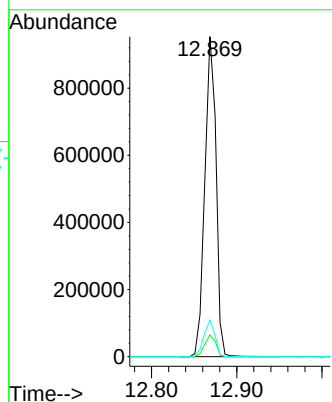
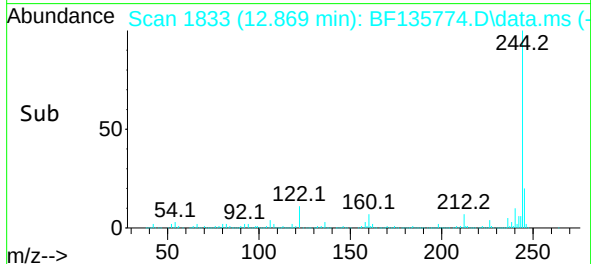
Instrument : BNA\_F  
 ClientSampleId : PP-20230928-B6A-0-7.5MSD



Tgt Ion:244 Resp: 871700  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.6 8.4  
 122 11.4 9.0 13.6

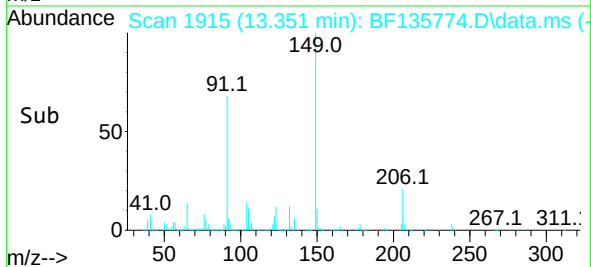
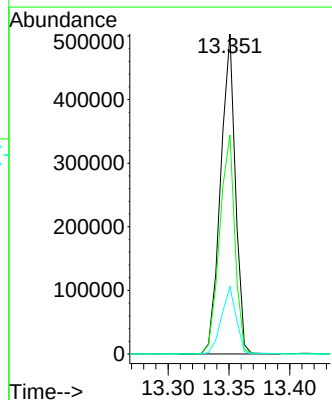
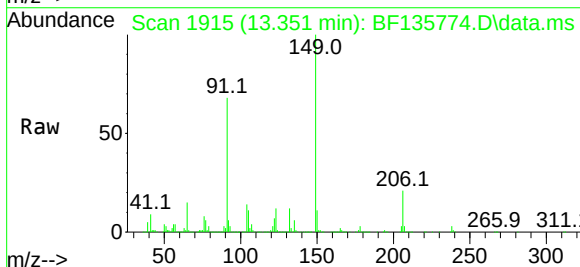
Manual Integrations  
 APPROVED

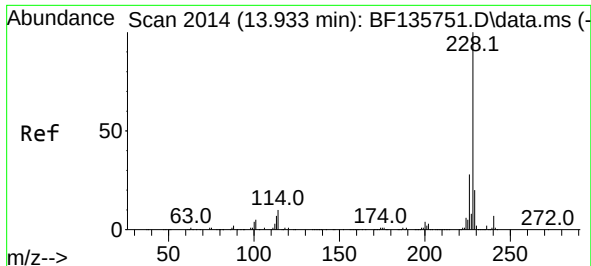
Reviewed By :Yogesh Patel 10/17/2023  
 Supervised By :mohammad ahmed 10/17/2023



#80  
 Butylbenzylphthalate  
 Concen: 65.501 ng  
 RT: 13.351 min Scan# 1915  
 Delta R.T. -0.006 min  
 Lab File: BF135774.D  
 Acq: 16 Oct 2023 13:43

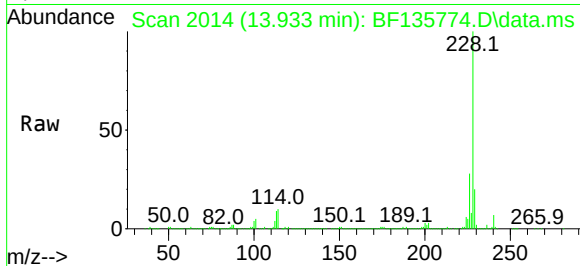
Tgt Ion:149 Resp: 426626  
 Ion Ratio Lower Upper  
 149 100  
 91 68.4 57.4 86.0  
 206 21.0 16.2 24.4





#81  
Benzo(a)anthracene  
Concen: 57.812 ng  
RT: 13.933 min Scan# 2014  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

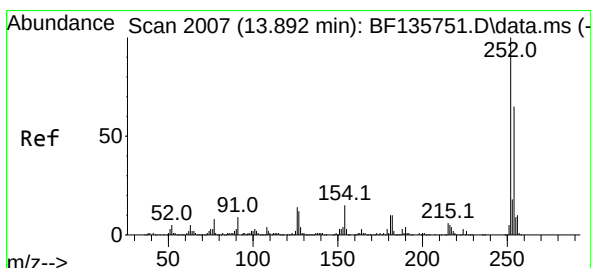
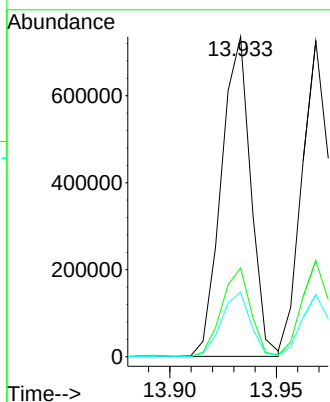
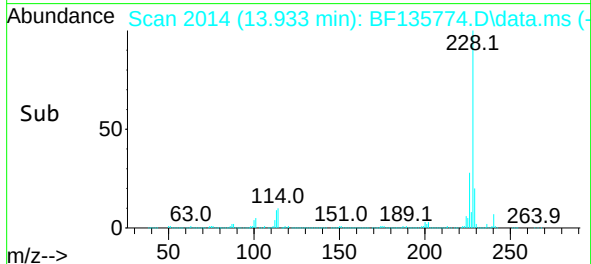
Instrument : BNA\_F  
ClientSampleId : PP-20230928-B6A-0-7.5MSD



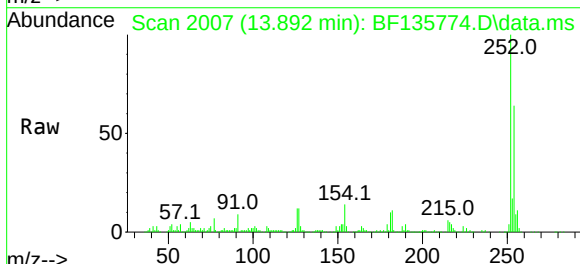
Tgt Ion:228 Resp: 708279  
Ion Ratio Lower Upper  
228 100  
226 27.7 22.2 33.2  
229 20.2 16.1 24.1

Manual Integrations  
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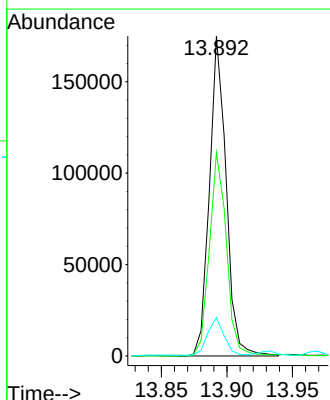
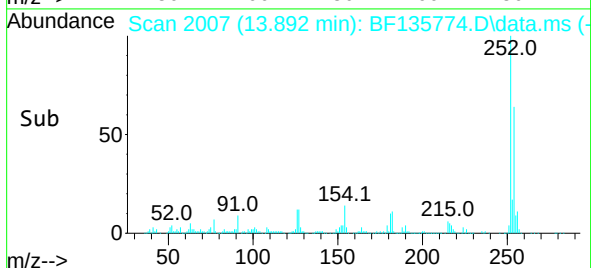
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023

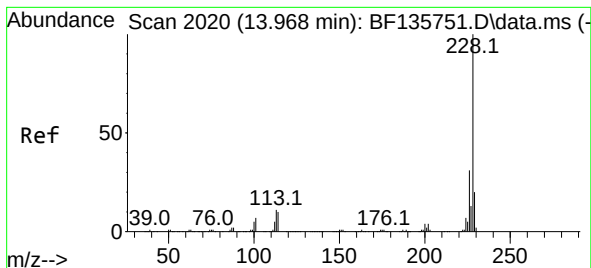


#82  
3,3'-Dichlorobenzidine  
Concen: 38.230 ng  
RT: 13.892 min Scan# 2007  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43



Tgt Ion:252 Resp: 155337  
Ion Ratio Lower Upper  
252 100  
254 63.6 51.8 77.6  
126 12.0 11.0 16.4





#83

Chrysene

Concen: 54.643 ng

RT: 13.968 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

Instrument :

BNA\_F

ClientSampleId :

PP-20230928-B6A-0-7.5MSD

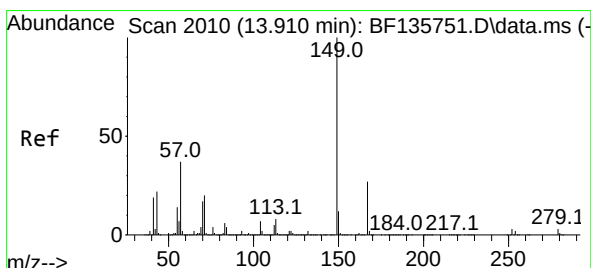
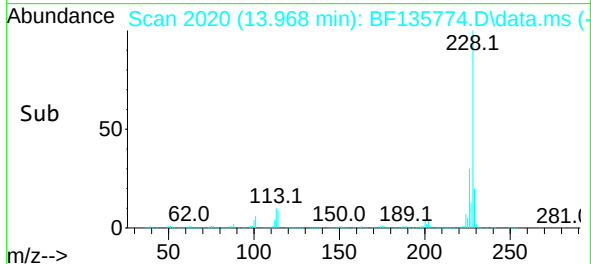
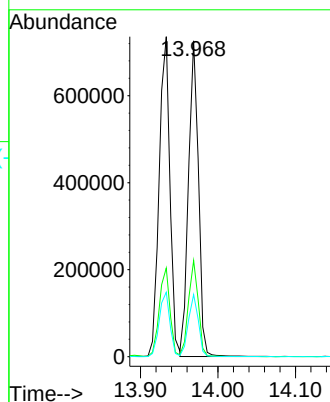
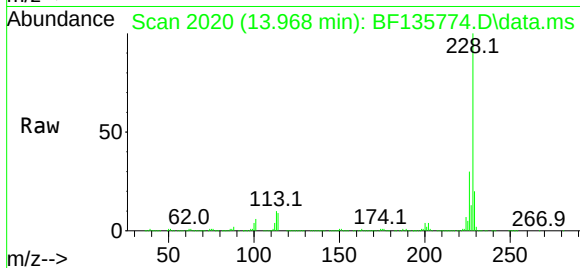
Tgt Ion:228 Resp: 648420  
 Ion Ratio Lower Upper  
 228 100  
 226 30.4 24.4 36.6  
 229 19.7 15.7 23.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/17/2023



#84

Bis(2-ethylhexyl)phthalate

Concen: 63.468 ng

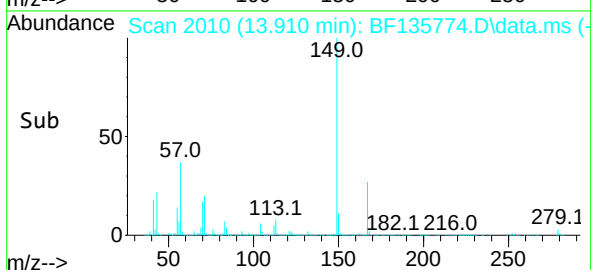
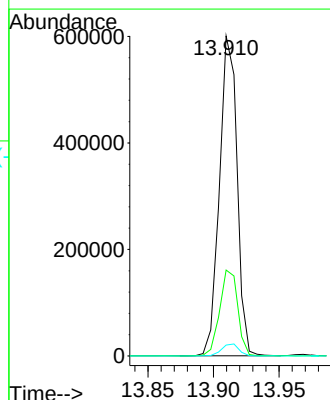
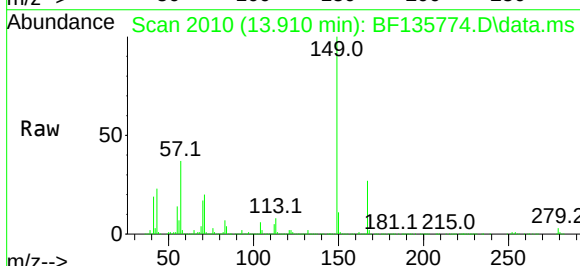
RT: 13.910 min Scan# 2010

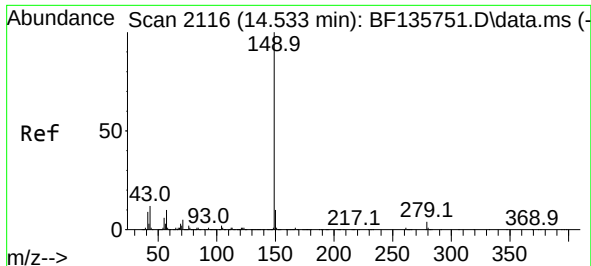
Delta R.T. -0.006 min

Lab File: BF135774.D

Acq: 16 Oct 2023 13:43

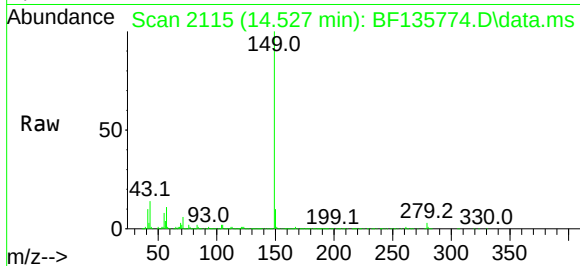
Tgt Ion:149 Resp: 560280  
 Ion Ratio Lower Upper  
 149 100  
 167 26.9 21.3 31.9  
 279 3.4 2.7 4.1





#85  
Di-n-octyl phthalate  
Concen: 62.626 ng  
RT: 14.527 min Scan# 2115  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

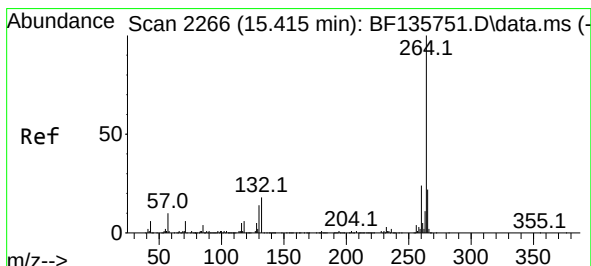
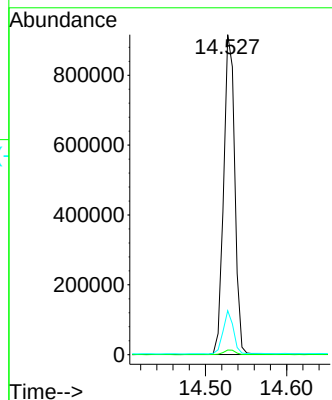
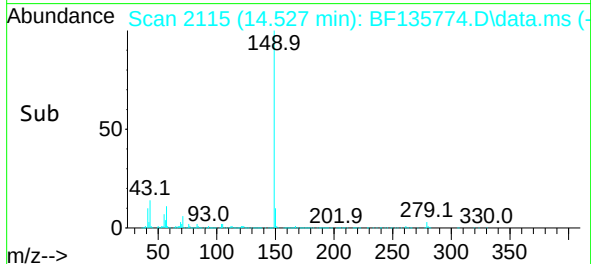
Instrument : BNA\_F  
ClientSampleId : PP-20230928-B6A-0-7.5MSD



Tgt Ion:149 Resp: 876652  
Ion Ratio Lower Upper  
149 100  
167 1.6 1.2 1.8  
43 12.5 10.1 15.1

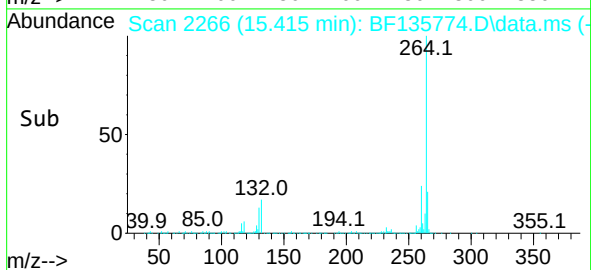
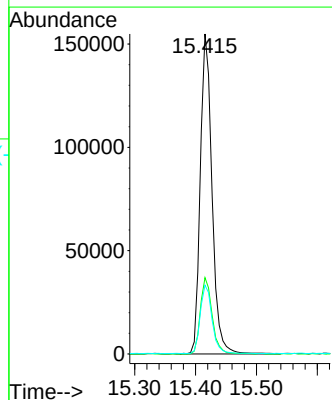
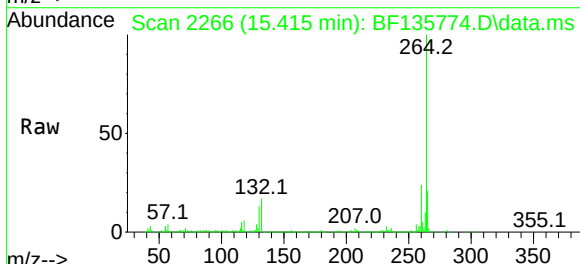
Manual Integrations  
APPROVED

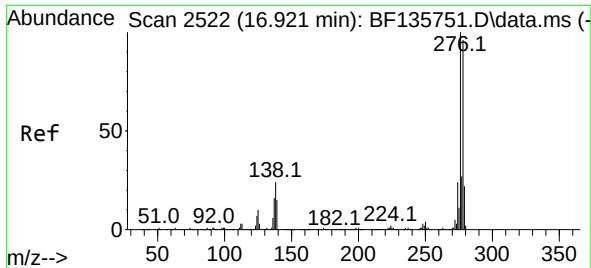
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.415 min Scan# 2266  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

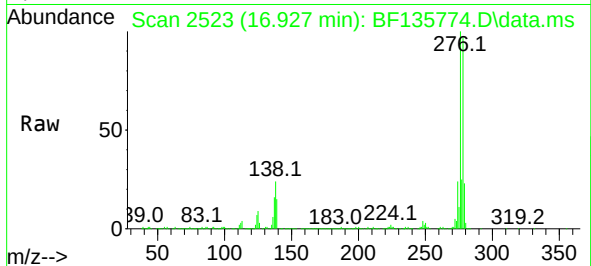
Tgt Ion:264 Resp: 206780  
Ion Ratio Lower Upper  
264 100  
260 23.8 19.2 28.8  
265 21.5 17.4 26.2





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 61.808 ng  
RT: 16.927 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

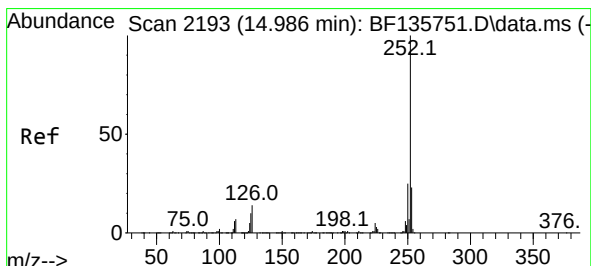
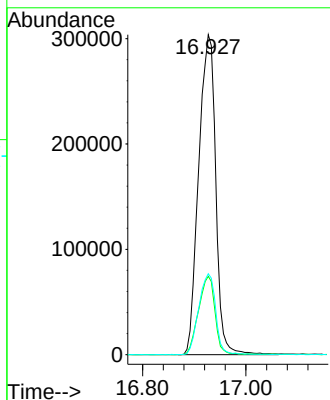
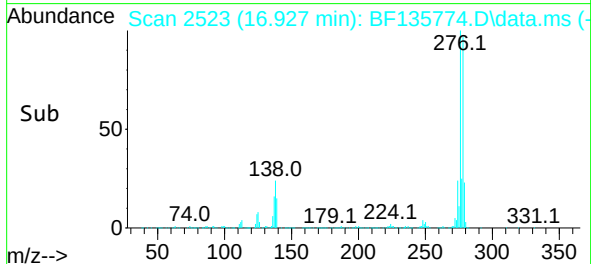
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:276 Resp: 69638  
Ion Ratio Lower Upper  
276 100  
138 23.6 19.8 29.6  
277 25.2 20.2 30.4

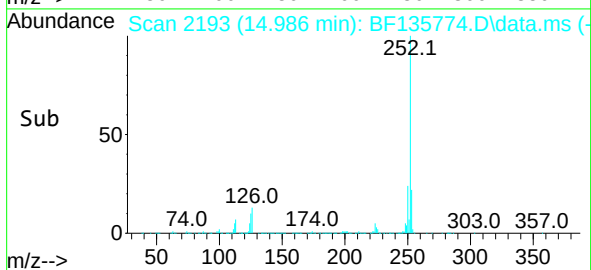
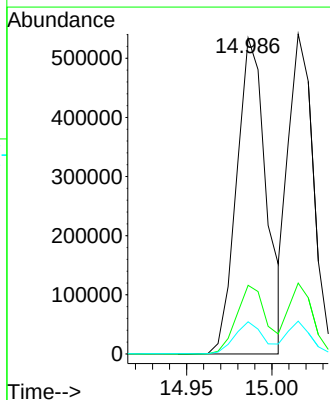
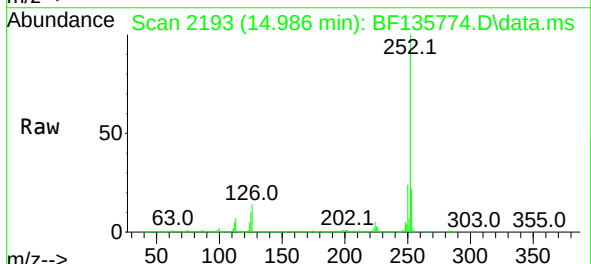
Manual Integrations  
APPROVED

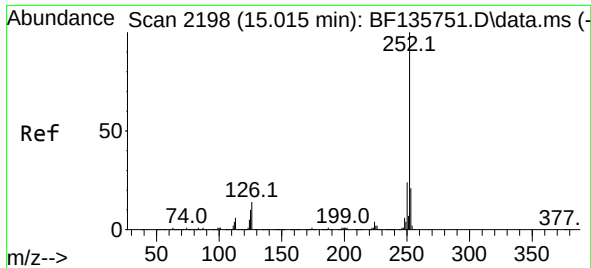
Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#88  
Benzo(b)fluoranthene  
Concen: 56.264 ng  
RT: 14.986 min Scan# 2193  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

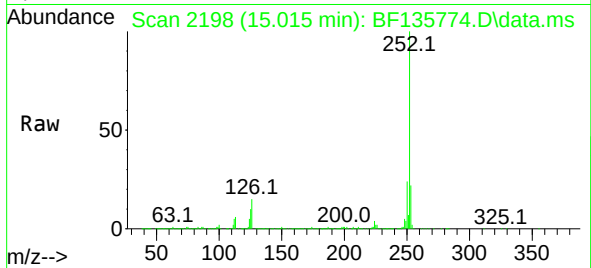
Tgt Ion:252 Resp: 651133  
Ion Ratio Lower Upper  
252 100  
253 21.7 18.2 27.2  
125 10.2 8.2 12.2





#89  
Benzo(k)fluoranthene  
Concen: 49.407 ng  
RT: 15.015 min Scan# 2198  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

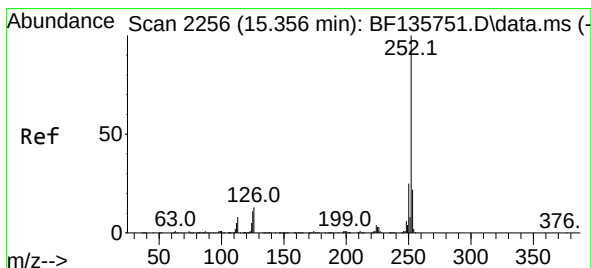
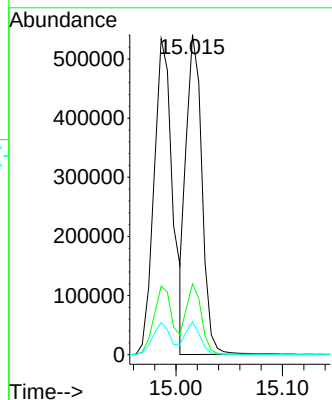
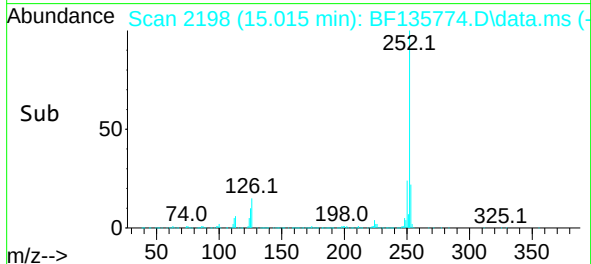
Instrument : BNA\_F  
ClientSampleId : PP-20230928-B6A-0-7.5MSD



Tgt Ion:252 Resp: 555108  
Ion Ratio Lower Upper  
252 100  
253 22.1 17.4 26.0  
125 10.2 8.3 12.5

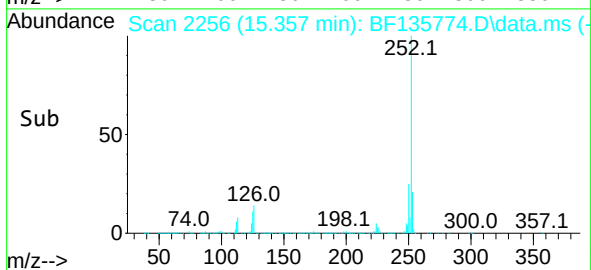
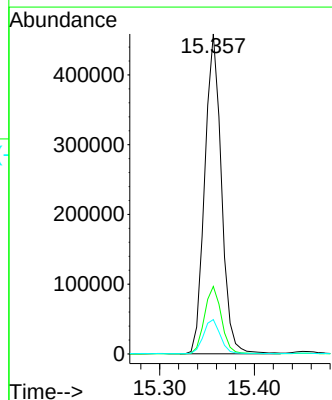
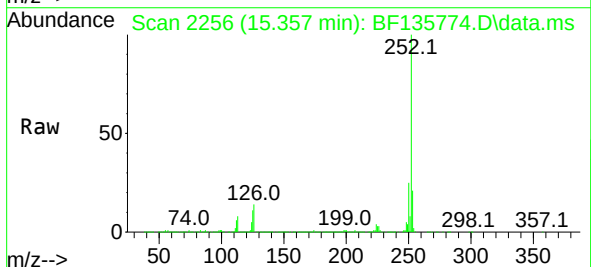
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023

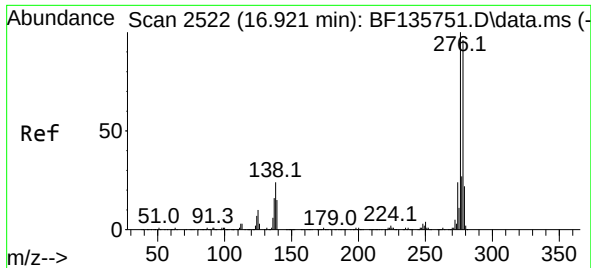


#90  
Benzo(a)pyrene  
Concen: 51.368 ng  
RT: 15.357 min Scan# 2256  
Delta R.T. -0.006 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

Tgt Ion:252 Resp: 559001  
Ion Ratio Lower Upper  
252 100  
253 21.1 17.4 26.2  
125 10.8 8.8 13.2

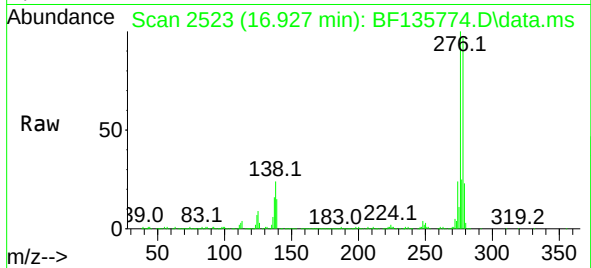






#91  
Dibenzo(a,h)anthracene  
Concen: 62.012 ng  
RT: 16.927 min Scan# 2523  
Delta R.T. -0.012 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

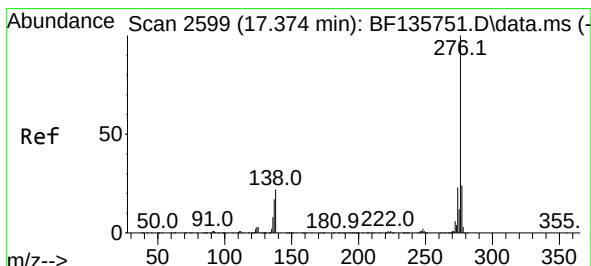
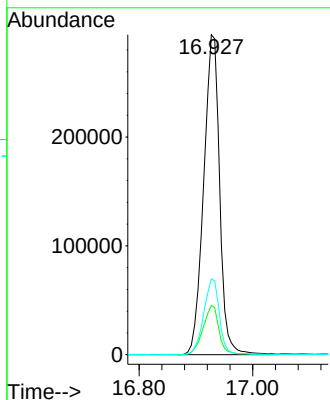
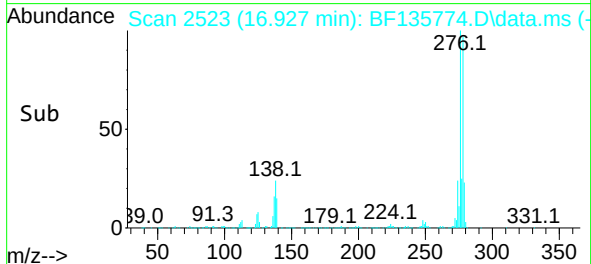
Instrument :  
BNA\_F  
ClientSampleId :  
PP-20230928-B6A-0-7.5MSD



Tgt Ion:278 Resp: 572764  
Ion Ratio Lower Upper  
278 100  
139 15.4 12.5 18.7  
279 23.7 18.6 27.8

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/17/2023  
Supervised By :mohammad ahmed 10/17/2023



#92  
Benzo(g,h,i)perylene  
Concen: 58.340 ng  
RT: 17.374 min Scan# 2599  
Delta R.T. -0.012 min  
Lab File: BF135774.D  
Acq: 16 Oct 2023 13:43

Tgt Ion:276 Resp: 553508  
Ion Ratio Lower Upper  
276 100  
277 23.9 19.4 29.2  
138 20.2 17.3 25.9

