

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102823\  
 Data File : BF136012.D  
 Acq On : 28 Oct 2023 18:42  
 Operator : CG\JU  
 Sample : 04887-02MSD  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-622-VOC-04MSD

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 10/31/2023  
 Supervised By :mohammad ahmed 10/31/2023

Quant Time: Oct 30 00:28:39 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF102523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 26 03:58:01 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| -----                         |        |      |          |         |        |          |
| Internal Standards            |        |      |          |         |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.828  | 152  | 157342   | 20.000  | ng     | 0.00     |
| 21) Naphthalene-d8            | 8.104  | 136  | 617576   | 20.000  | ng     | 0.00     |
| 39) Acenaphthene-d10          | 9.869  | 164  | 318318   | 20.000  | ng     | 0.00     |
| 64) Phenanthrene-d10          | 11.357 | 188  | 584504   | 20.000  | ng     | 0.00     |
| 76) Chrysene-d12              | 14.015 | 240  | 309865   | 20.000  | ng     | 0.00     |
| 86) Perylene-d12              | 15.498 | 264  | 354640   | 20.000  | ng     | 0.00     |
| System Monitoring Compounds   |        |      |          |         |        |          |
| 5) 2-Fluorophenol             | 5.475  | 112  | 1340731  | 131.580 | ng     | 0.02     |
| 7) Phenol-d6                  | 6.463  | 99   | 1591459  | 125.455 | ng     | 0.00     |
| 23) Nitrobenzene-d5           | 7.392  | 82   | 1051498  | 107.077 | ng     | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.663 | 330  | 509837   | 182.985 | ng     | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.192  | 172  | 1899642  | 95.559  | ng     | 0.00     |
| 79) Terphenyl-d14             | 12.957 | 244  | 2148517  | 115.847 | ng     | 0.00     |
| Target Compounds              |        |      |          |         |        |          |
|                               |        |      |          |         | Qvalue |          |
| 2) 1,4-Dioxane                | 2.793  | 88   | 204956   | 43.301  | ng     | # 82     |
| 3) Pyridine                   | 3.493  | 79   | 430109   | 32.922  | ng     | 94       |
| 4) n-Nitrosodimethylamine     | 3.446  | 42   | 253738   | 44.543  | ng     | 97       |
| 6) Aniline                    | 6.492  | 93   | 252587   | 14.788  | ng     | 99       |
| 8) 2-Chlorophenol             | 6.610  | 128  | 570870   | 54.119  | ng     | 99       |
| 9) Benzaldehyde               | 6.381  | 77   | 112204   | 16.351  | ng     | 97       |
| 10) Phenol                    | 6.475  | 94   | 590592m  | 44.533  | ng     |          |
| 11) bis(2-Chloroethyl)ether   | 6.569  | 93   | 547191   | 53.009  | ng     | 99       |
| 12) 1,3-Dichlorobenzene       | 6.769  | 146  | 581877   | 51.933  | ng     | 96       |
| 13) 1,4-Dichlorobenzene       | 6.845  | 146  | 594327   | 52.816  | ng     | 99       |
| 14) 1,2-Dichlorobenzene       | 6.992  | 146  | 565902   | 54.156  | ng     | 98       |
| 15) Benzyl Alcohol            | 6.969  | 79   | 458801   | 51.162  | ng     | 97       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.104  | 45   | 751161   | 49.412  | ng     | 97       |
| 17) 2-Methylphenol            | 7.081  | 107  | 426371   | 45.862  | ng     | 99       |
| 18) Hexachloroethane          | 7.333  | 117  | 209642   | 54.790  | ng     | 98       |
| 19) n-Nitroso-di-n-propyla... | 7.245  | 70   | 362103   | 50.197  | ng     | 96       |
| 20) 3+4-Methylphenols         | 7.233  | 107  | 510170   | 45.467  | ng     | # 84     |
| 22) Acetophenone              | 7.239  | 105  | 738341   | 52.933  | ng     | # 93     |
| 24) Nitrobenzene              | 7.410  | 77   | 555574   | 53.982  | ng     | 99       |
| 25) Isophorone                | 7.645  | 82   | 1039233  | 53.237  | ng     | 100      |
| 26) 2-Nitrophenol             | 7.722  | 139  | 279330   | 65.719  | ng     | 99       |
| 27) 2,4-Dimethylphenol        | 7.763  | 122  | 423361   | 47.585  | ng     | 99       |
| 28) bis(2-Chloroethoxy)met... | 7.863  | 93   | 646675   | 53.946  | ng     | 98       |
| 29) 2,4-Dichlorophenol        | 7.963  | 162  | 456677   | 57.321  | ng     | 99       |
| 30) 1,2,4-Trichlorobenzene    | 8.045  | 180  | 503994   | 55.872  | ng     | 100      |
| 31) Naphthalene               | 8.128  | 128  | 1600645  | 53.608  | ng     | 100      |
| 32) Benzoic acid              | 7.886  | 122  | 327712   | 63.725  | ng     | 88       |
| 33) 4-Chloroaniline           | 8.175  | 127  | 37872    | 2.870   | ng     | 98       |
| 34) Hexachlorobutadiene       | 8.245  | 225  | 282682   | 55.598  | ng     | 100      |
| 35) Caprolactam               | 8.551  | 113  | 135098m  | 50.957  | ng     |          |
| 36) 4-Chloro-3-methylphenol   | 8.657  | 107  | 482938   | 57.041  | ng     | 98       |
| 37) 2-Methylnaphthalene       | 8.822  | 142  | 1000240  | 50.631  | ng     | 100      |
| 38) 1-Methylnaphthalene       | 8.922  | 142  | 973047   | 52.713  | ng     | 100      |
| 40) 1,2,4,5-Tetrachloroben... | 8.986  | 216  | 476611   | 53.012  | ng     | 100      |
| 41) Hexachlorocyclopentadiene | 8.975  | 237  | 472872   | 106.668 | ng     | 99       |
| 43) 2,4,6-Trichlorophenol     | 9.098  | 196  | 318775   | 60.580  | ng     | 98       |

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Quant Time: Oct 30 00:28:39 2023  
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Manual Integrations  
 APPROVED

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| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.139  | 196  | 353785   | 56.626  | ng    | 99       |
| 46) 1,1'-Biphenyl             | 9.292  | 154  | 1273196  | 52.786  | ng    | 99       |
| 47) 2-Chloronaphthalene       | 9.310  | 162  | 970072   | 54.374  | ng    | 98       |
| 48) 2-Nitroaniline            | 9.410  | 65   | 303074   | 59.044  | ng    | 93       |
| 49) Acenaphthylene            | 9.727  | 152  | 1535270  | 54.548  | ng    | 99       |
| 50) Dimethylphthalate         | 9.598  | 163  | 1119421  | 54.228  | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 9.651  | 165  | 258752   | 59.200  | ng    | 93       |
| 52) Acenaphthene              | 9.904  | 154  | 1050149m | 58.220  | ng    |          |
| 53) 3-Nitroaniline            | 9.816  | 138  | 143880   | 29.988  | ng    | # 95     |
| 54) 2,4-Dinitrophenol         | 9.927  | 184  | 232866   | 108.727 | ng    | 93       |
| 55) Dibenzofuran              | 10.074 | 168  | 1347697  | 51.719  | ng    | 99       |
| 56) 4-Nitrophenol             | 9.980  | 139  | 428407   | 101.107 | ng    | 96       |
| 57) 2,4-Dinitrotoluene        | 10.057 | 165  | 343668   | 62.827  | ng    | 98       |
| 58) Fluorene                  | 10.416 | 166  | 1005235  | 51.563  | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 10.192 | 232  | 299077   | 63.615  | ng    | 98       |
| 60) Diethylphthalate          | 10.298 | 149  | 1075778  | 54.650  | ng    | 98       |
| 61) 4-Chlorophenyl-phenyle... | 10.410 | 204  | 477472   | 50.773  | ng    | 96       |
| 62) 4-Nitroaniline            | 10.439 | 138  | 267688   | 52.329  | ng    | 94       |
| 63) Azobenzene                | 10.574 | 77   | 1020680  | 51.094  | ng    | 96       |
| 65) 4,6-Dinitro-2-methylph... | 10.463 | 198  | 159616   | 68.881  | ng    | 96       |
| 66) n-Nitrosodiphenylamine    | 10.533 | 169  | 936738   | 53.049  | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.904 | 248  | 328721   | 54.915  | ng    | 96       |
| 68) Hexachlorobenzene         | 10.963 | 284  | 377224   | 58.992  | ng    | 96       |
| 69) Atrazine                  | 11.063 | 200  | 333179   | 69.215  | ng    | 97       |
| 70) Pentachlorophenol         | 11.157 | 266  | 428433   | 104.319 | ng    | 99       |
| 71) Phenanthrene              | 11.386 | 178  | 1573238  | 53.201  | ng    | 100      |
| 72) Anthracene                | 11.433 | 178  | 1604784  | 53.000  | ng    | 100      |
| 73) Carbazole                 | 11.592 | 167  | 1428504  | 52.887  | ng    | 99       |
| 74) Di-n-butylphthalate       | 11.933 | 149  | 1669686  | 58.092  | ng    | 99       |
| 75) Fluoranthene              | 12.574 | 202  | 1581077  | 50.821  | ng    | 97       |
| 77) Benzidine                 | 12.698 | 184  | 107017   | 17.911  | ng    | 98       |
| 78) Pyrene                    | 12.804 | 202  | 1580539  | 60.749  | ng    | 100      |
| 80) Butylbenzylphthalate      | 13.439 | 149  | 632259   | 63.002  | ng    | 96       |
| 81) Benzo(a)anthracene        | 13.998 | 228  | 1147546  | 54.466  | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 13.968 | 252  | 206001   | 32.138  | ng    | 98       |
| 83) Chrysene                  | 14.039 | 228  | 1101506  | 53.679  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 14.004 | 149  | 773147   | 72.266  | ng    | 99       |
| 85) Di-n-octyl phthalate      | 14.627 | 149  | 1263928  | 74.995  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.015 | 276  | 1097262  | 54.565  | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 15.062 | 252  | 1184116  | 56.105  | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 15.098 | 252  | 982002   | 47.375  | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.439 | 252  | 989332   | 50.861  | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 17.039 | 278  | 922886   | 53.654  | ng    | 98       |
| 92) Benzo(g,h,i)perylene      | 17.474 | 276  | 837130   | 43.212  | ng    | 98       |

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

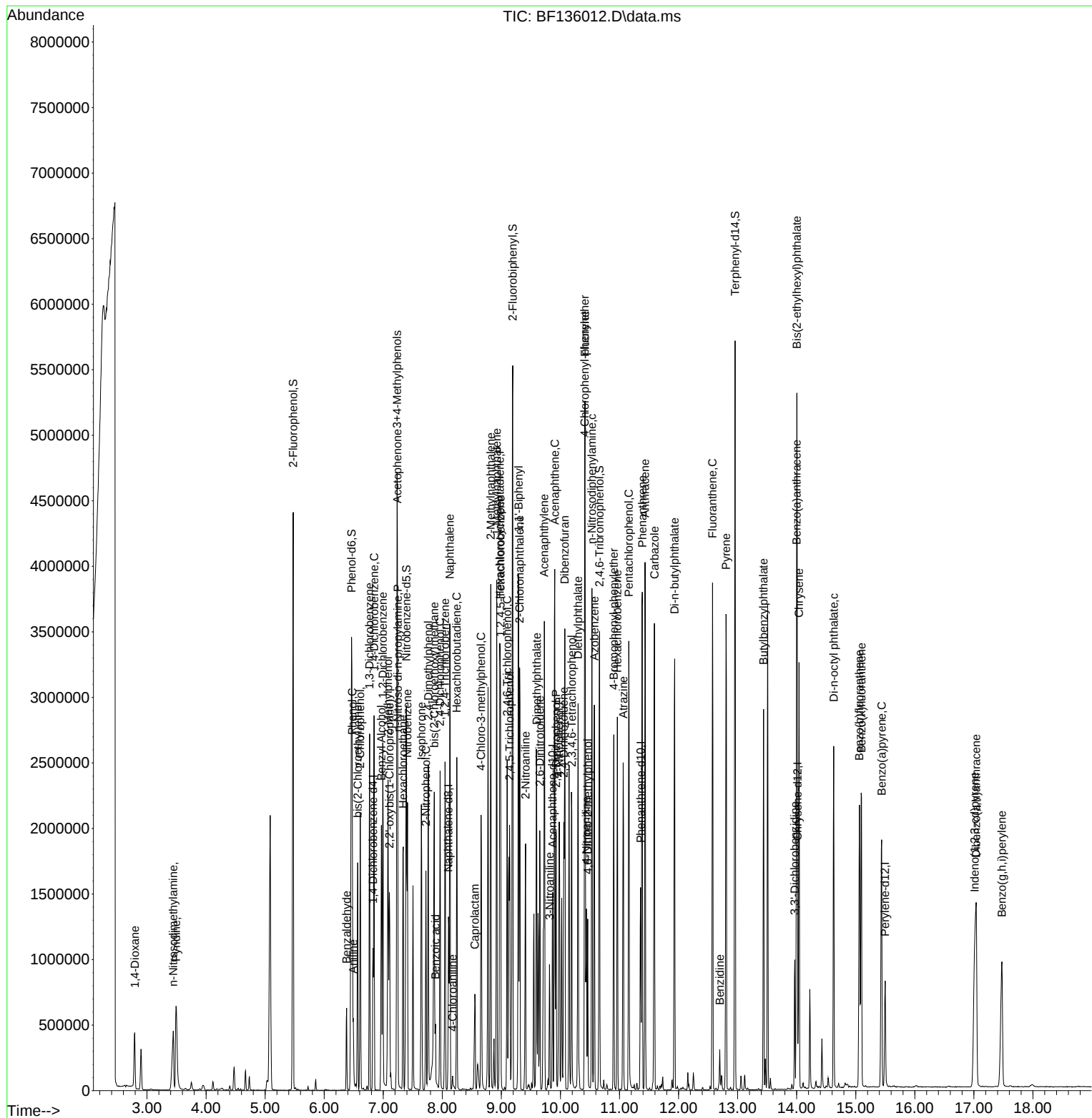
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102823\  
Data File : BF136012.D  
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Misc :  
ALS Vial : 15 Sample Multiplier: 1

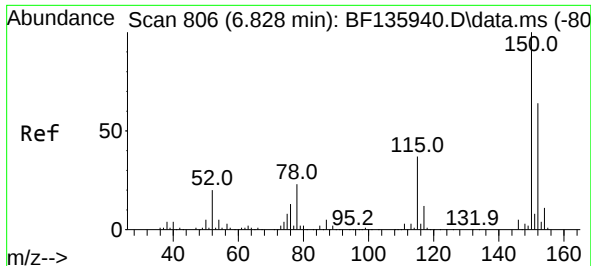
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SU-622-VOC-04MSD

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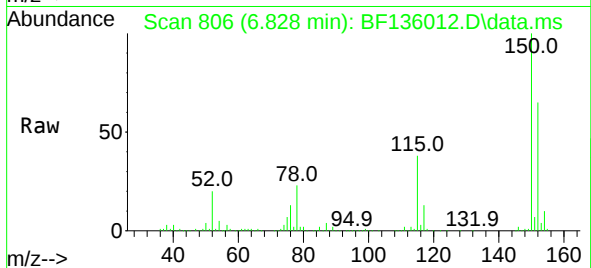
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.828 min Scan# 80  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

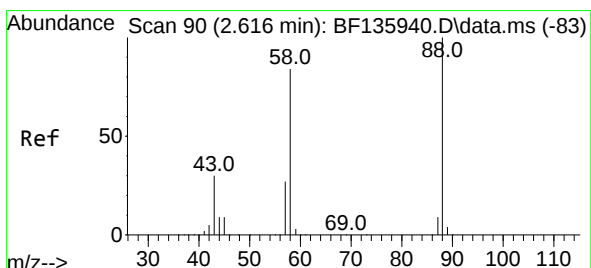
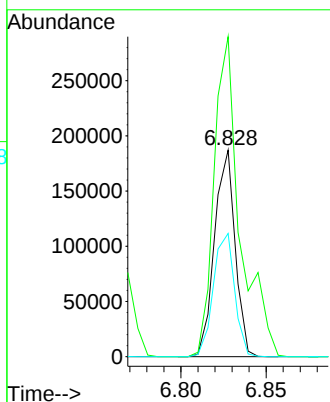
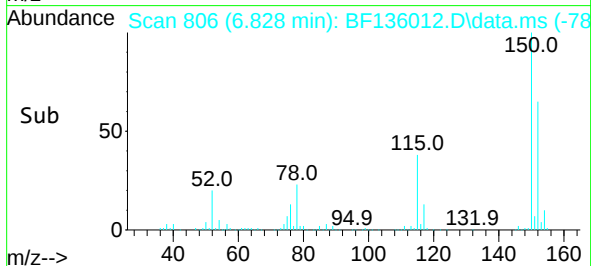
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



Tgt Ion:152 Resp: 15734  
Ion Ratio Lower Upper  
152 100  
150 154.9 124.6 186.8  
115 59.6 46.6 69.8

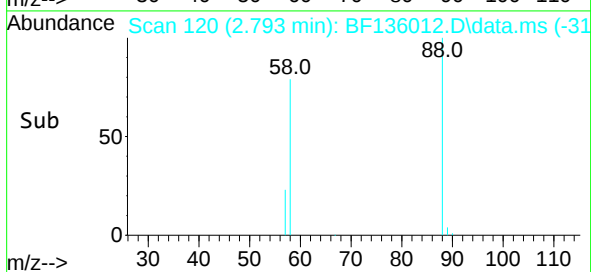
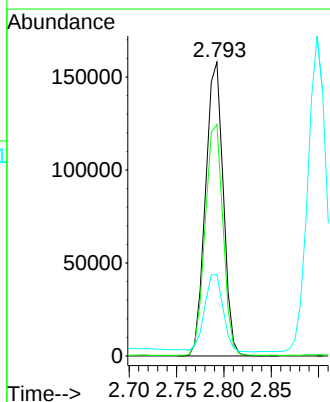
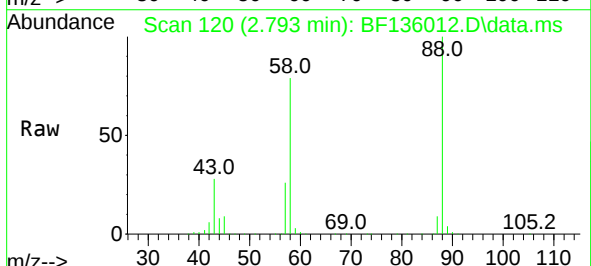
Manual Integrations  
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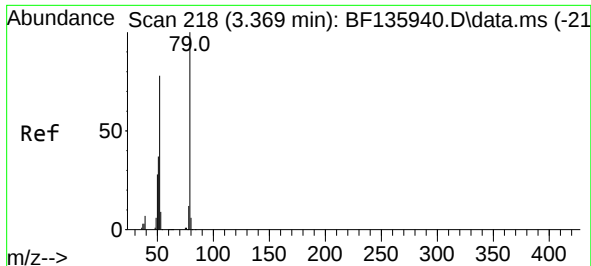
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#2  
1,4-Dioxane  
Concen: 43.301 ng  
RT: 2.793 min Scan# 120  
Delta R.T. 0.176 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

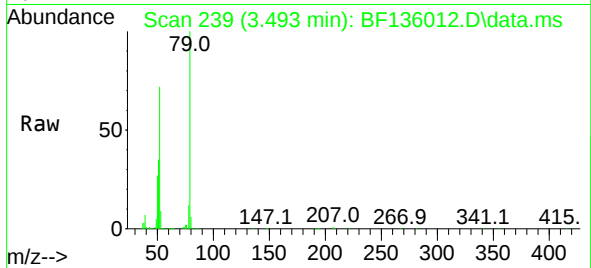
Tgt Ion: 88 Resp: 204956  
Ion Ratio Lower Upper  
88 100  
58 79.4 66.6 100.0  
43 0.0 23.8 35.8





#3  
Pyridine  
Concen: 32.922 ng  
RT: 3.493 min Scan# 218  
Delta R.T. 0.123 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

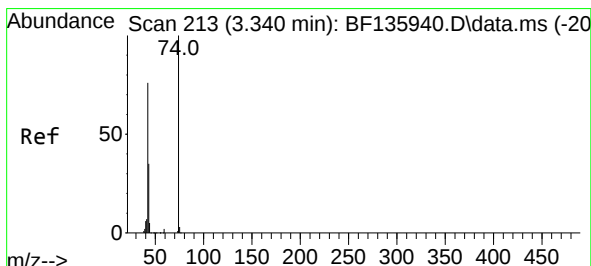
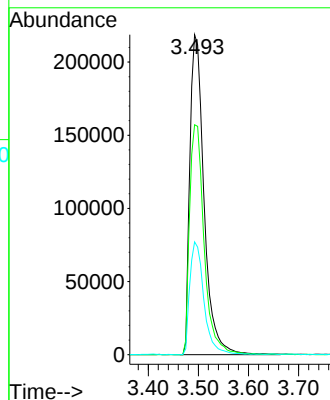
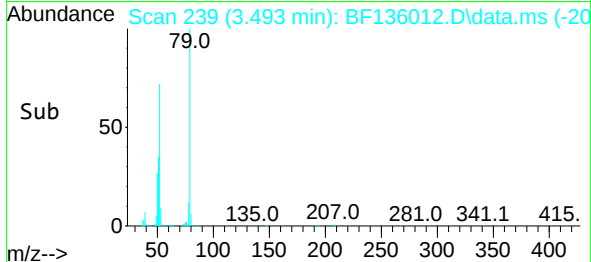
Instrument :  
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SU-622-VOC-04MSD



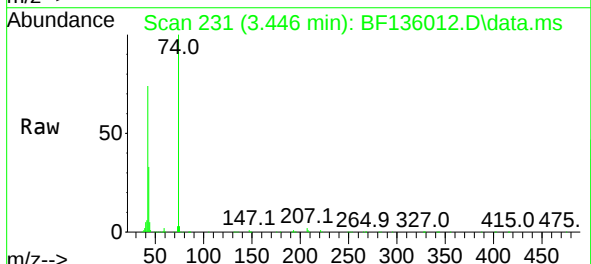
Tgt Ion: 79 Resp: 430109  
Ion Ratio Lower Upper  
79 100  
52 71.9 62.6 93.8  
51 35.2 29.8 44.8

Manual Integrations  
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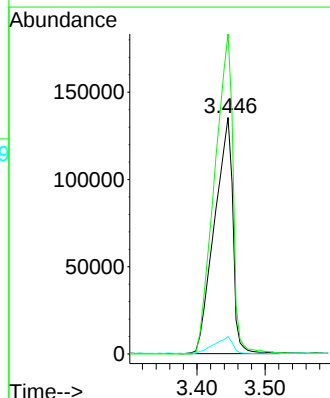
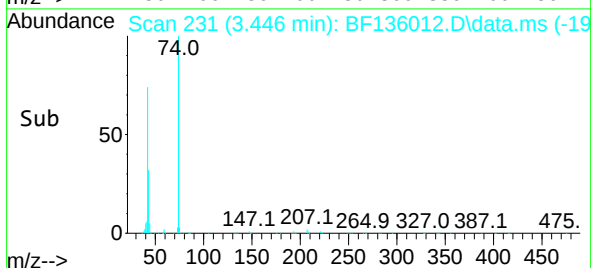
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#4  
n-Nitrosodimethylamine  
Concen: 44.543 ng  
RT: 3.446 min Scan# 231  
Delta R.T. 0.106 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



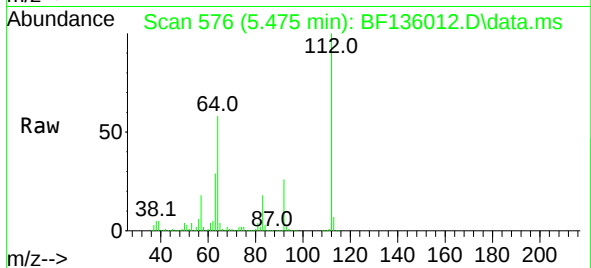
Tgt Ion: 42 Resp: 253738  
Ion Ratio Lower Upper  
42 100  
74 135.3 104.8 157.2  
44 7.4 5.9 8.9





#5  
2-Fluorophenol  
Concen: 131.580 ng  
RT: 5.475 min Scan# 51  
Delta R.T. 0.023 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

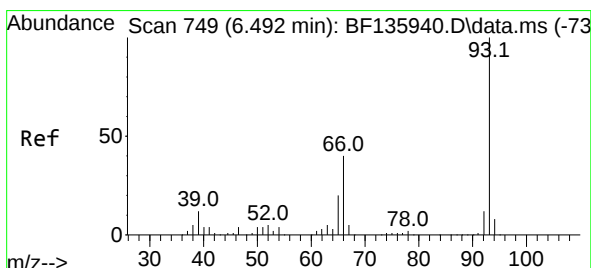
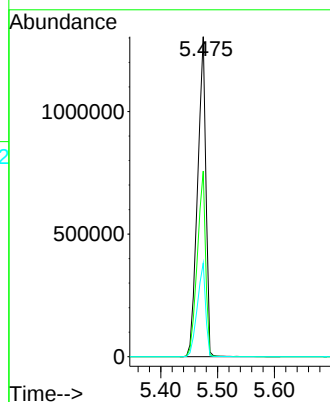
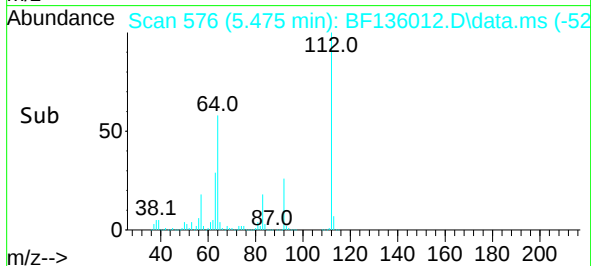
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Tgt Ion:112 Resp: 134073  
Ion Ratio Lower Upper  
112 100  
64 58.0 45.1 67.7  
63 29.3 23.0 34.4

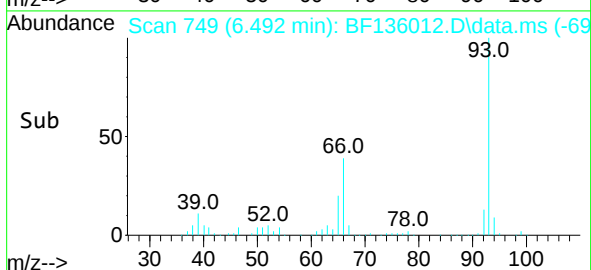
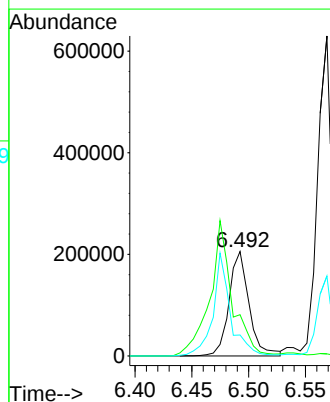
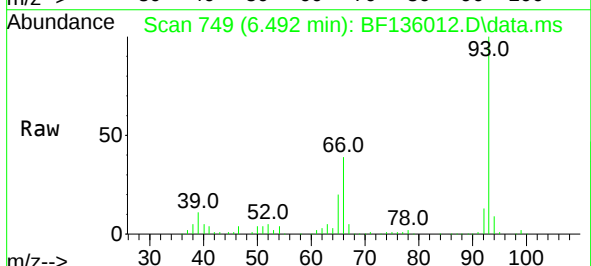
Manual Integrations  
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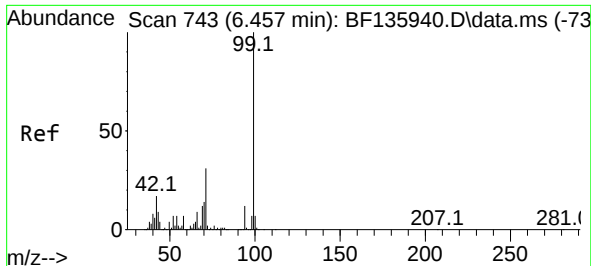
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#6  
Aniline  
Concen: 14.788 ng  
RT: 6.492 min Scan# 749  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

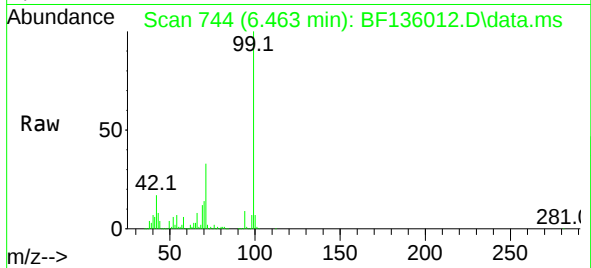
Tgt Ion: 93 Resp: 252587  
Ion Ratio Lower Upper  
93 100  
66 39.5 32.0 48.0  
65 20.0 16.2 24.4





#7  
Phenol-d6  
Concen: 125.455 ng  
RT: 6.463 min Scan# 743  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

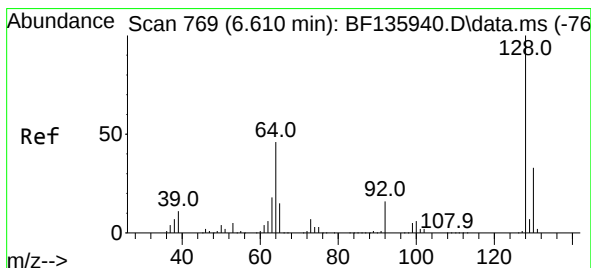
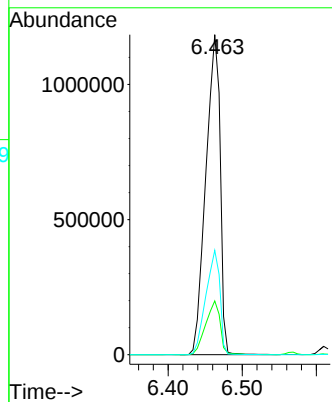
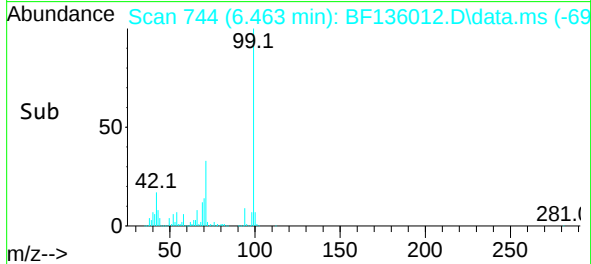
Instrument :  
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Tgt Ion: 99 Resp: 1591459  
Ion Ratio Lower Upper  
99 100  
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71 32.6 25.1 37.7

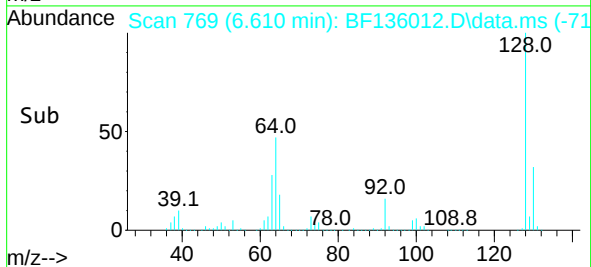
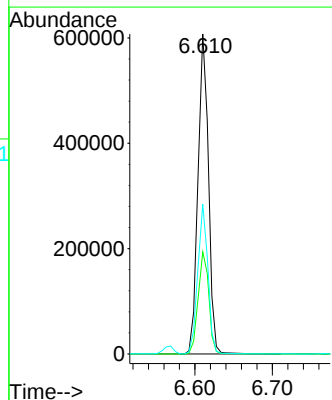
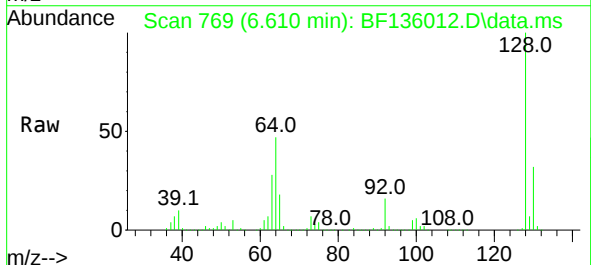
Manual Integrations  
APPROVED

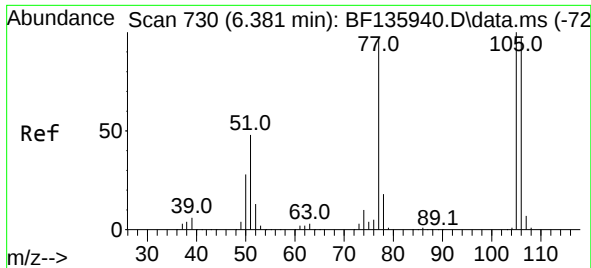
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#8  
2-Chlorophenol  
Concen: 54.119 ng  
RT: 6.610 min Scan# 769  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

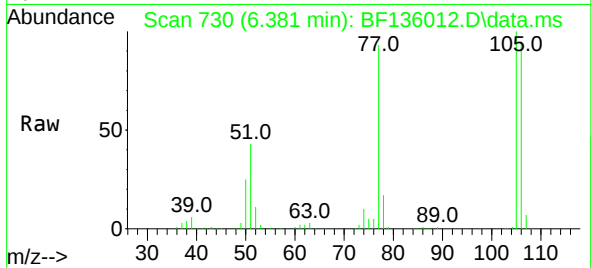
Tgt Ion:128 Resp: 570870  
Ion Ratio Lower Upper  
128 100  
130 31.9 13.1 53.1  
64 46.8 27.0 67.0





#9  
Benzaldehyde  
Concen: 16.351 ng  
RT: 6.381 min Scan# 712  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

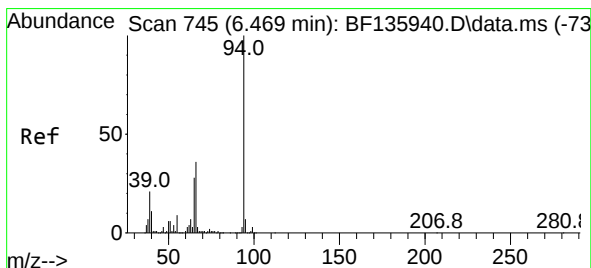
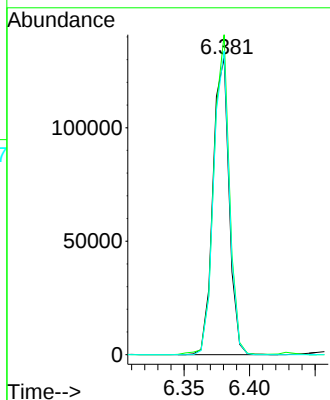
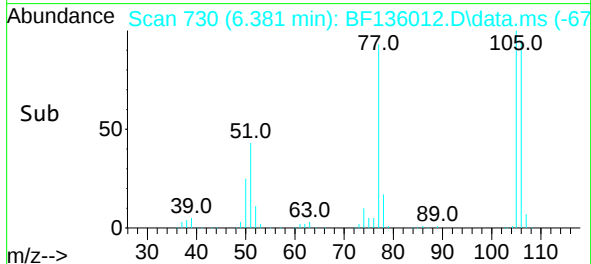
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



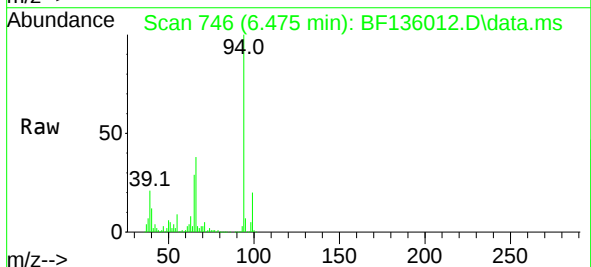
Tgt Ion: 77 Resp: 112204  
Ion Ratio Lower Upper  
77 100  
105 107.8 83.2 123.2  
106 102.4 80.0 120.0

Manual Integrations  
APPROVED

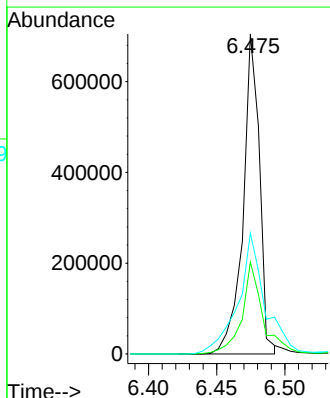
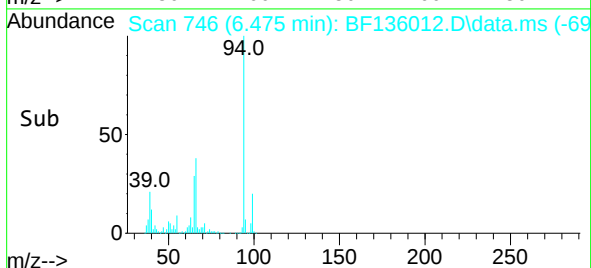
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

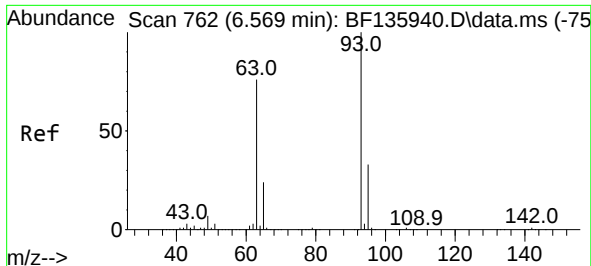


#10  
Phenol  
Concen: 44.533 ng m  
RT: 6.475 min Scan# 746  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



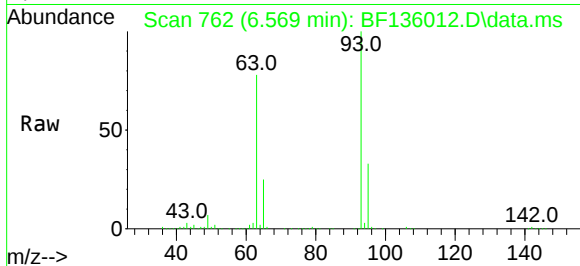
Tgt Ion: 94 Resp: 590592  
Ion Ratio Lower Upper  
94 100  
65 28.7 7.8 47.8  
66 37.8 16.5 56.5





#11  
bis(2-Chloroethyl)ether  
Concen: 53.009 ng  
RT: 6.569 min Scan# 762  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

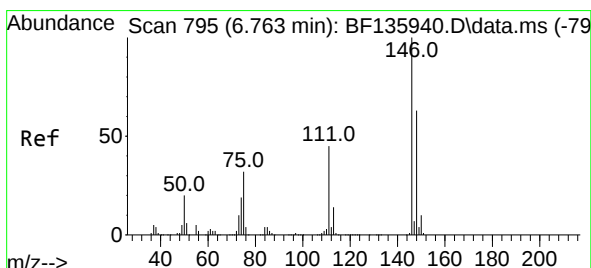
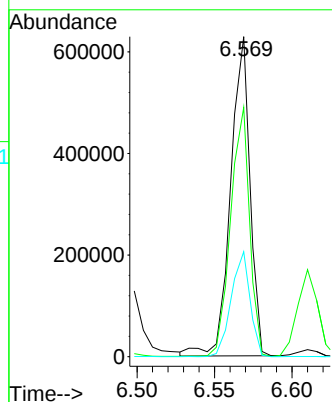
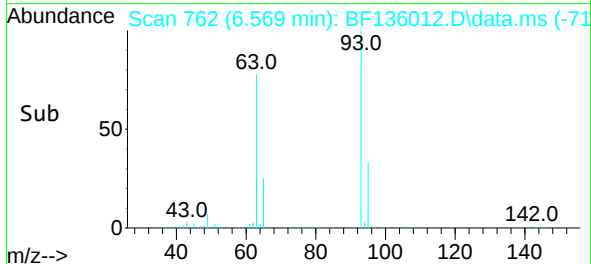
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



Tgt Ion: 93 Resp: 54719  
Ion Ratio Lower Upper  
93 100  
63 77.9 56.2 96.2  
95 32.8 12.9 52.9

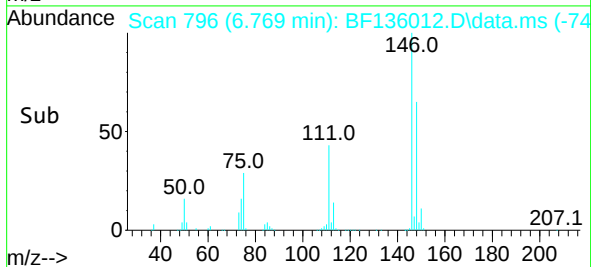
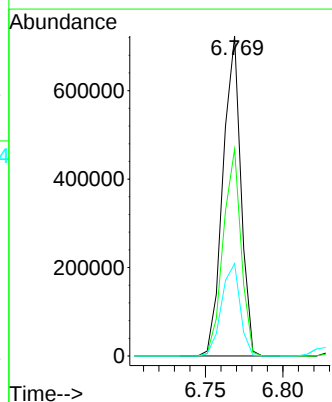
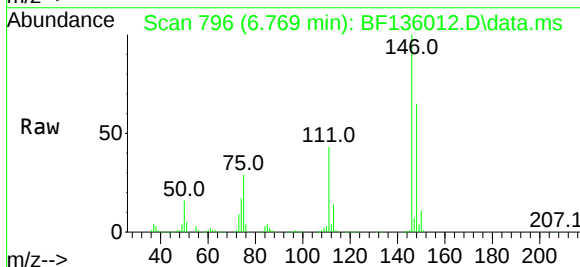
Manual Integrations  
APPROVED

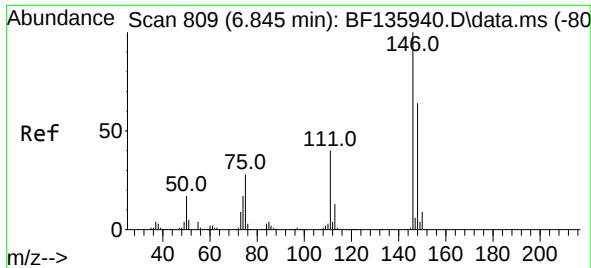
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#12  
1,3-Dichlorobenzene  
Concen: 51.933 ng  
RT: 6.769 min Scan# 796  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

Tgt Ion:146 Resp: 581877  
Ion Ratio Lower Upper  
146 100  
148 64.7 50.2 75.4  
75 28.8 25.9 38.9





#13

1,4-Dichlorobenzene

Concen: 52.816 ng

RT: 6.845 min Scan# 809

Delta R.T. -0.000 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

Instrument :

BNA\_F

ClientSampleId :

SU-622-VOC-04MSD

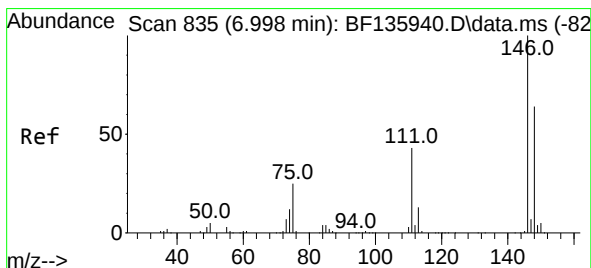
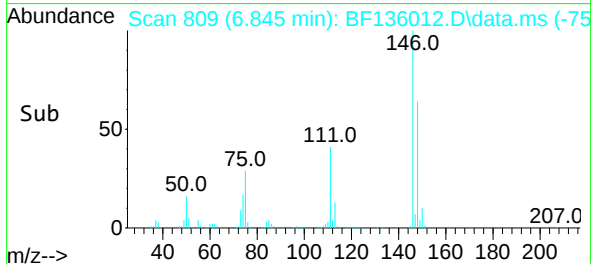
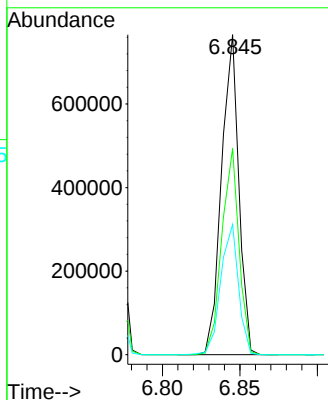
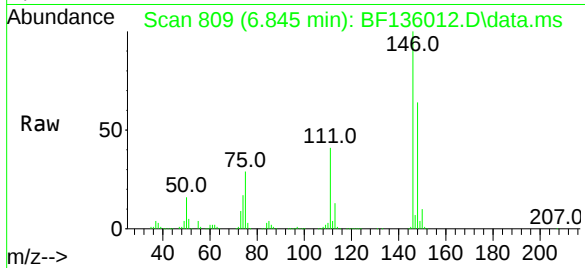
Tgt Ion:146 Resp: 59432  
 Ion Ratio Lower Upper  
 146 100  
 148 64.5 51.4 77.2  
 111 40.7 31.8 47.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#14

1,2-Dichlorobenzene

Concen: 54.156 ng

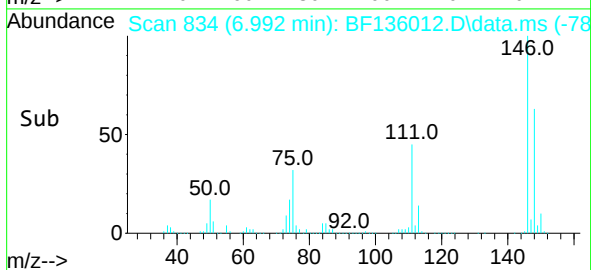
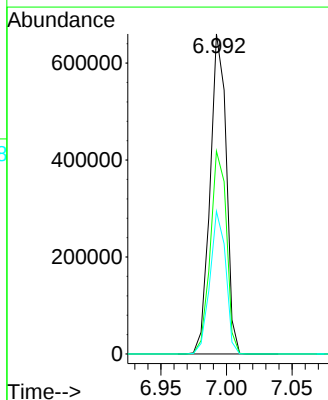
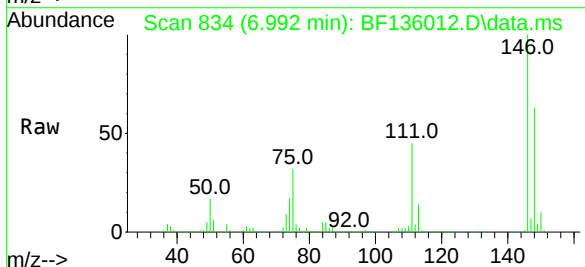
RT: 6.992 min Scan# 834

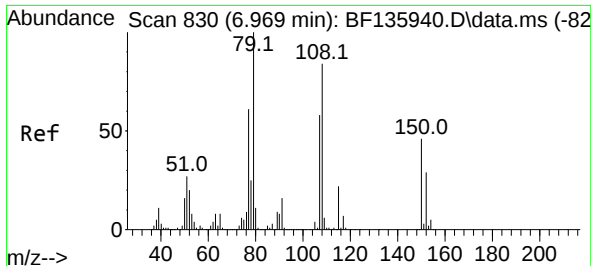
Delta R.T. -0.006 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

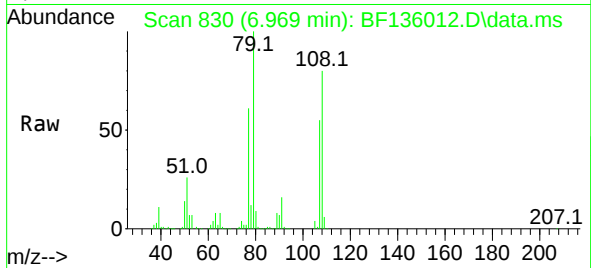
Tgt Ion:146 Resp: 565902  
 Ion Ratio Lower Upper  
 146 100  
 148 63.4 51.4 77.0  
 111 44.6 34.2 51.4





#15  
Benzyl Alcohol  
Concen: 51.162 ng  
RT: 6.969 min Scan# 830  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

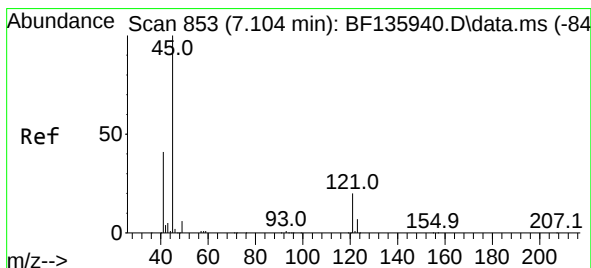
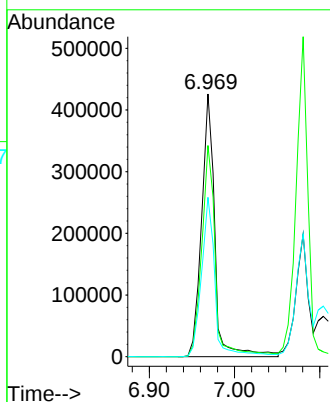
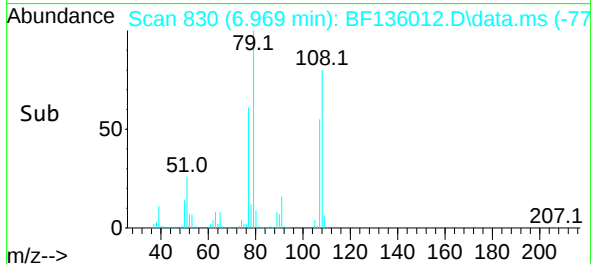
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



Tgt Ion: 79 Resp: 45880  
Ion Ratio Lower Upper  
79 100  
108 80.4 67.2 100.8  
77 60.6 49.0 73.6

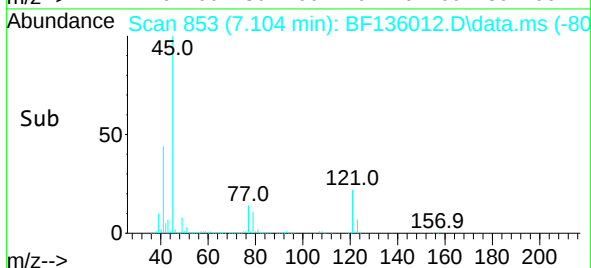
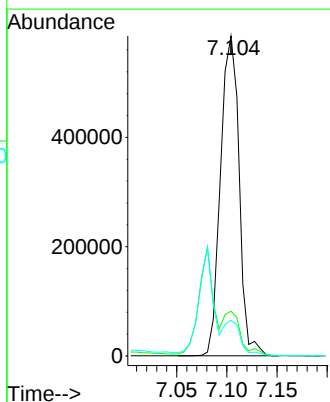
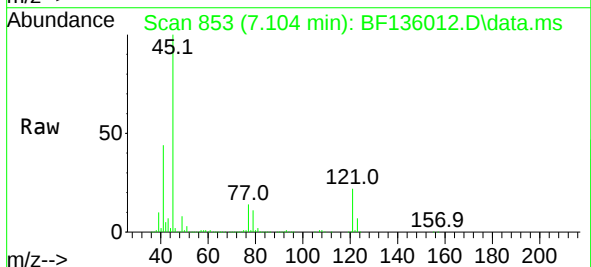
Manual Integrations  
APPROVED

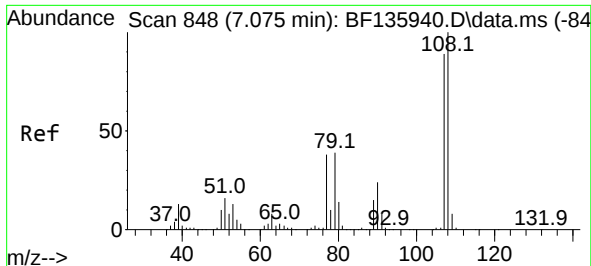
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 49.412 ng  
RT: 7.104 min Scan# 853  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

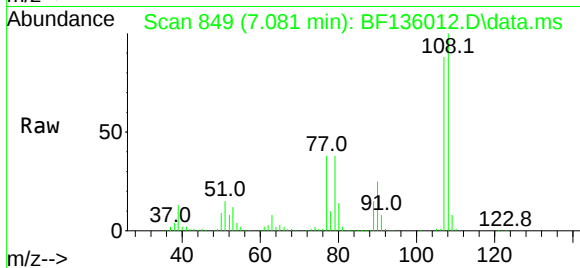
Tgt Ion: 45 Resp: 751161  
Ion Ratio Lower Upper  
45 100  
77 14.0 0.0 33.2  
79 11.2 0.0 29.8





#17  
2-Methylphenol  
Concen: 45.862 ng  
RT: 7.081 min Scan# 848  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

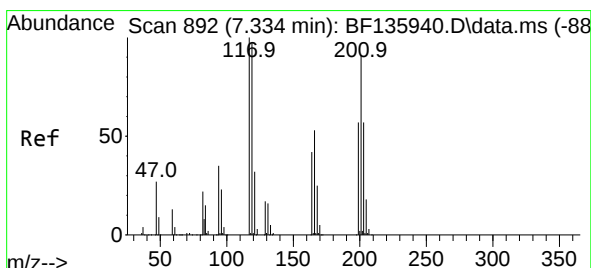
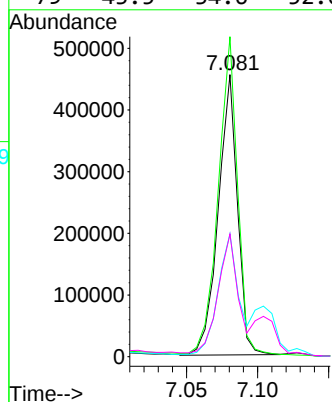
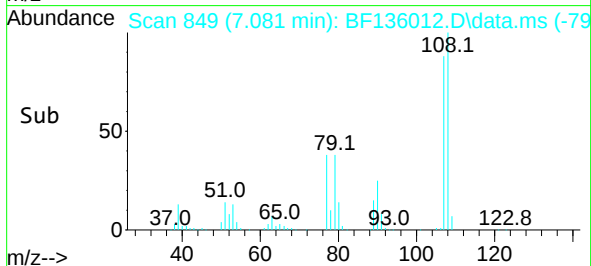
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



Tgt Ion:107 Resp: 42637  
Ion Ratio Lower Upper  
107 100  
108 113.4 89.8 134.6  
77 43.6 34.2 51.2  
79 43.5 34.6 52.0

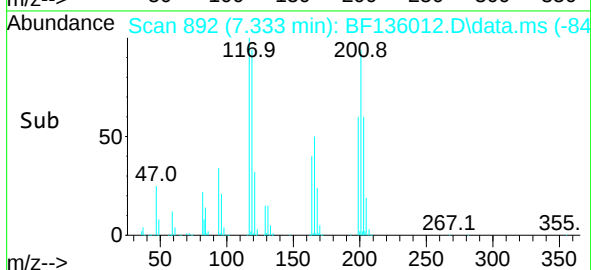
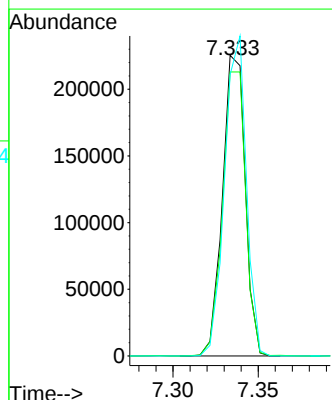
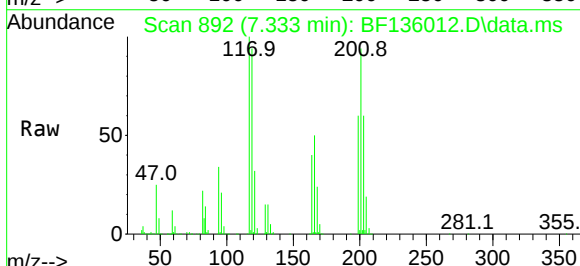
Manual Integrations  
APPROVED

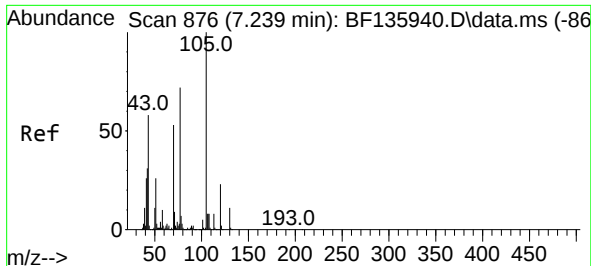
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#18  
Hexachloroethane  
Concen: 54.790 ng  
RT: 7.333 min Scan# 892  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

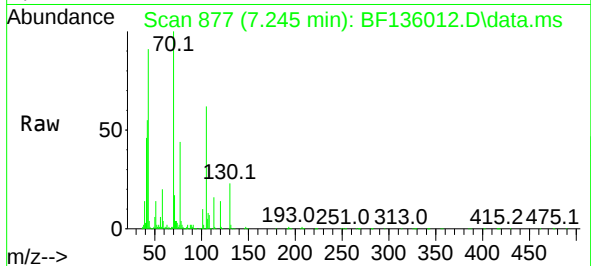
Tgt Ion:117 Resp: 209642  
Ion Ratio Lower Upper  
117 100  
119 94.4 77.3 115.9  
201 93.5 72.8 109.2





#19  
n-Nitroso-di-n-propylamine  
Concen: 50.197 ng  
RT: 7.245 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

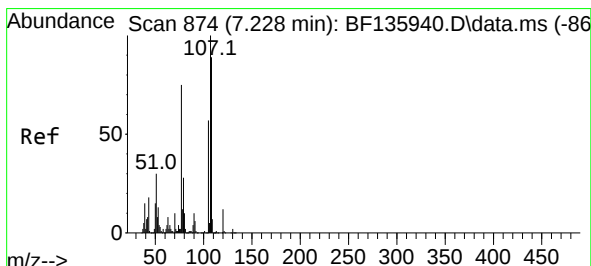
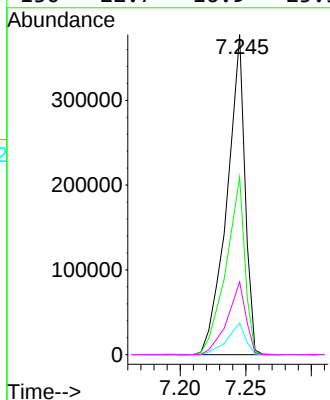
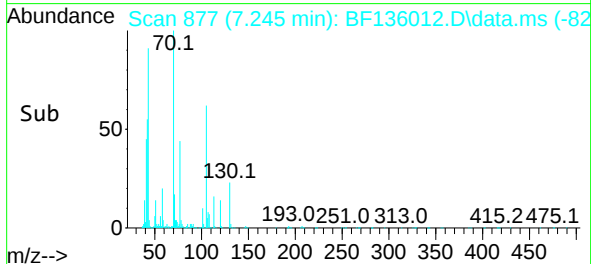
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



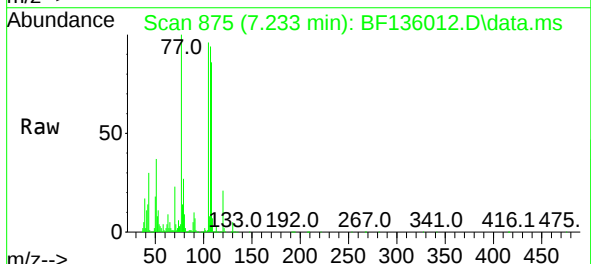
Tgt Ion: 70 Resp: 36210  
Ion Ratio Lower Upper  
70 100  
42 55.4 47.3 70.9  
101 9.8 7.8 11.8  
130 22.7 16.9 25.3

Manual Integrations  
APPROVED

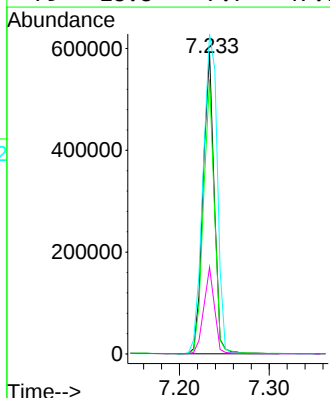
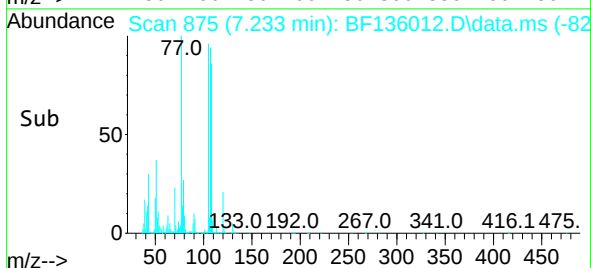
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

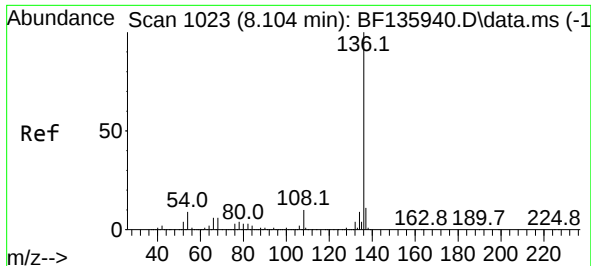


#20  
3+4-Methylphenols  
Concen: 45.467 ng  
RT: 7.233 min Scan# 875  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



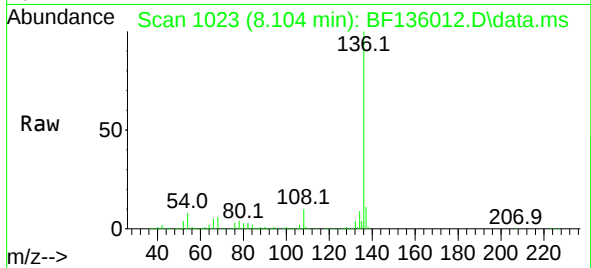
Tgt Ion:107 Resp: 510170  
Ion Ratio Lower Upper  
107 100  
108 91.1 69.1 109.1  
77 106.3 55.0 95.0#  
79 28.8 7.7 47.7





#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.104 min Scan# 1023  
Delta R.T. 0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

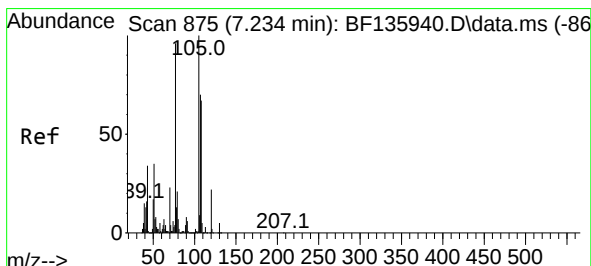
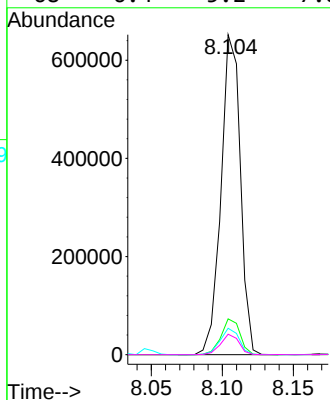
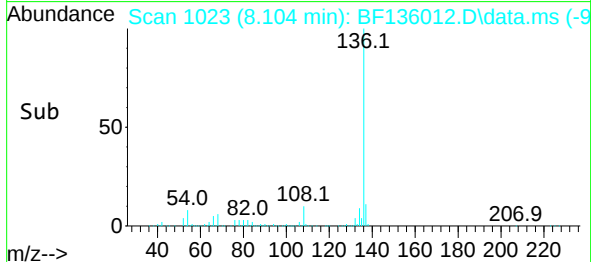
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



Tgt Ion:136 Resp: 617570  
Ion Ratio Lower Upper  
136 100  
137 11.2 9.0 13.6  
54 8.2 7.1 10.7  
68 6.4 5.2 7.8

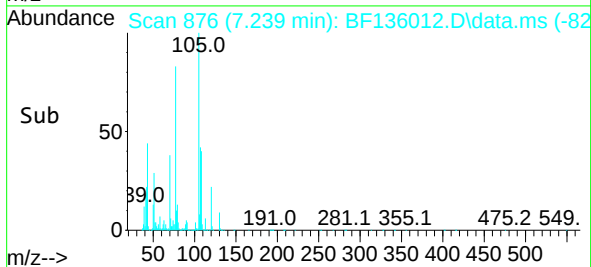
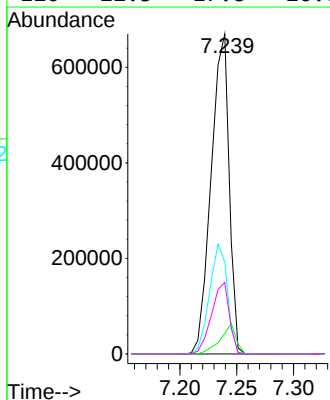
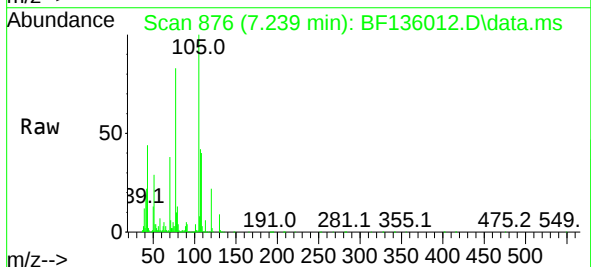
Manual Integrations  
APPROVED

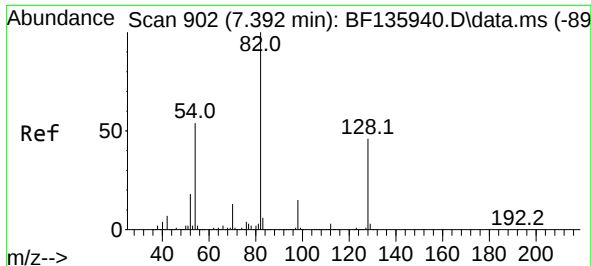
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#22  
Acetophenone  
Concen: 52.933 ng  
RT: 7.239 min Scan# 876  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

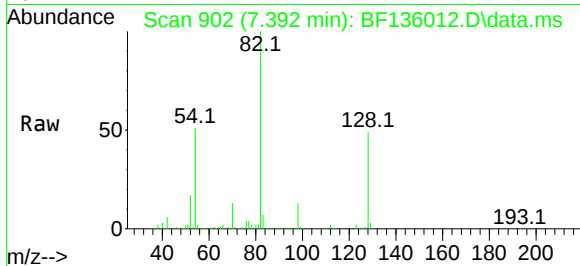
Tgt Ion:105 Resp: 738341  
Ion Ratio Lower Upper  
105 100  
71 6.4 3.4 5.2#  
51 28.7 28.4 42.6  
120 22.3 17.8 26.6





#23  
Nitrobenzene-d5  
Concen: 107.077 ng  
RT: 7.392 min Scan# 902  
Delta R.T. 0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

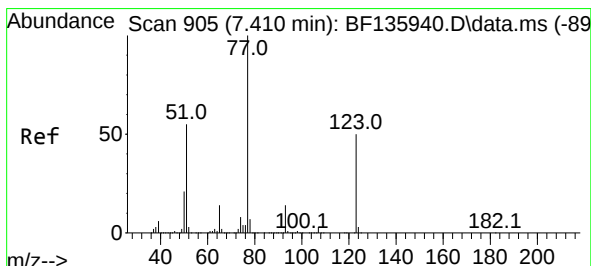
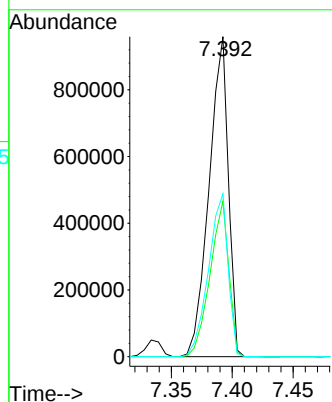
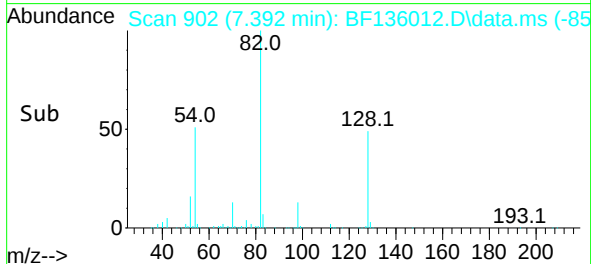
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



Tgt Ion: 82 Resp: 1051498  
Ion Ratio Lower Upper  
82 100  
128 48.6 36.8 55.2  
54 50.9 43.4 65.0

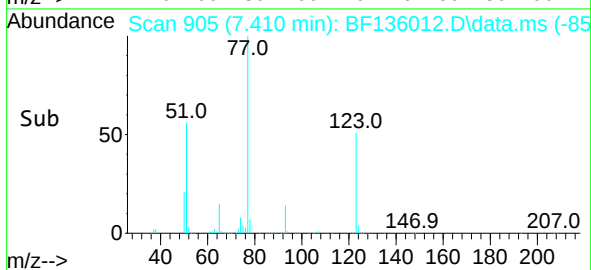
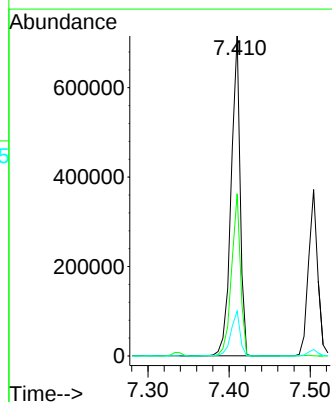
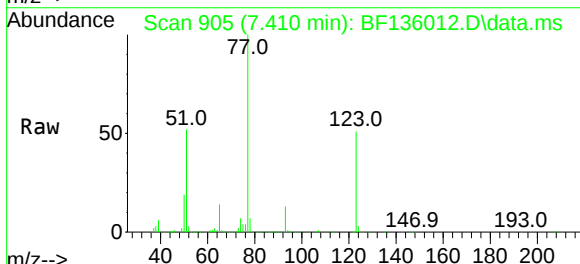
Manual Integrations  
APPROVED

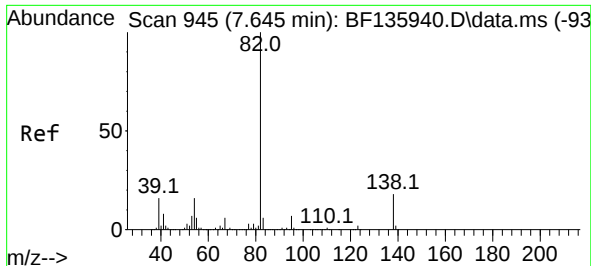
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#24  
Nitrobenzene  
Concen: 53.982 ng  
RT: 7.410 min Scan# 905  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

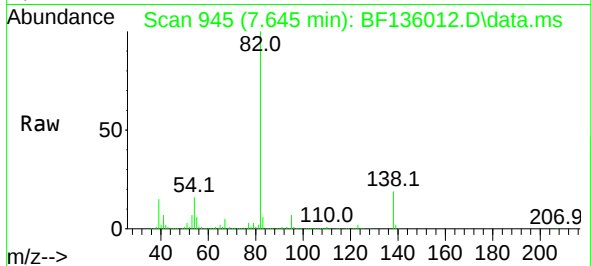
Tgt Ion: 77 Resp: 555574  
Ion Ratio Lower Upper  
77 100  
123 50.7 40.2 60.2  
65 14.1 11.0 16.4





#25  
Isophorone  
Concen: 53.237 ng  
RT: 7.645 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

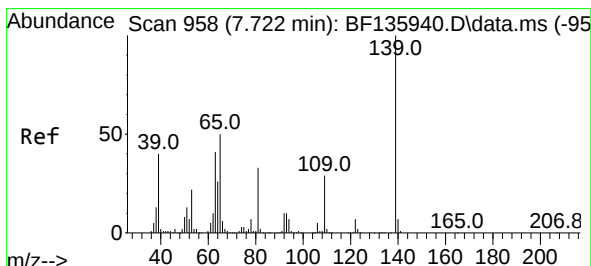
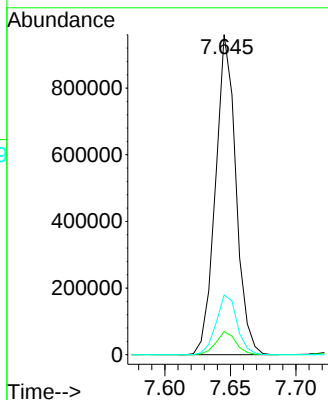
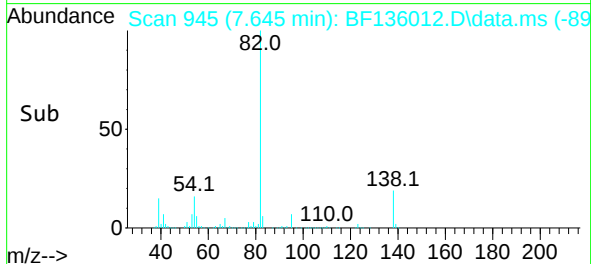
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



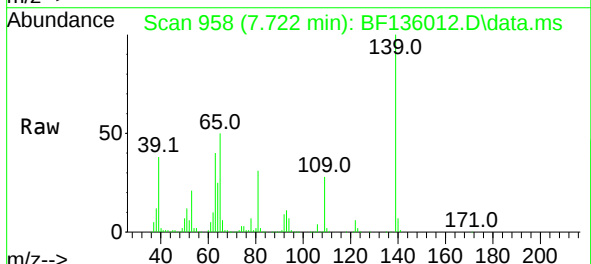
Tgt Ion: 82 Resp: 1039233  
Ion Ratio Lower Upper  
82 100  
95 7.2 5.6 8.4  
138 18.6 14.8 22.2

Manual Integrations  
APPROVED

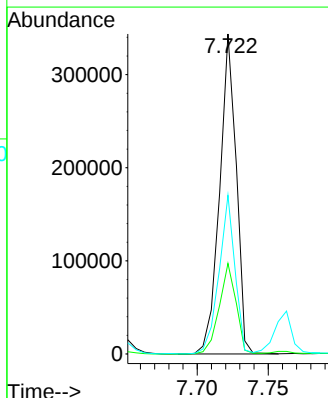
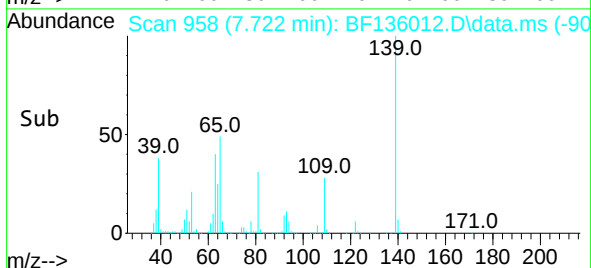
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

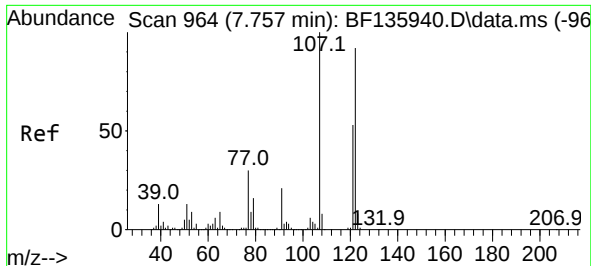


#26  
2-Nitrophenol  
Concen: 65.719 ng  
RT: 7.722 min Scan# 958  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



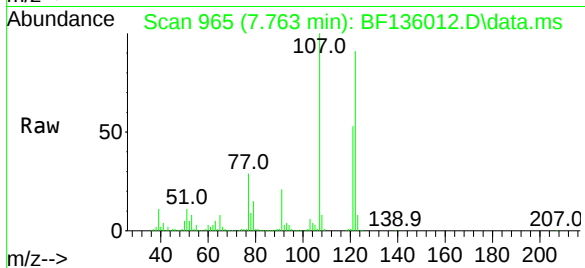
Tgt Ion:139 Resp: 279330  
Ion Ratio Lower Upper  
139 100  
109 28.3 23.1 34.7  
65 49.6 39.8 59.8





#27  
2,4-Dimethylphenol  
Concen: 47.585 ng  
RT: 7.763 min Scan# 90  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

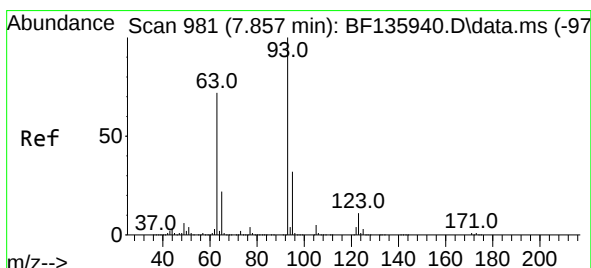
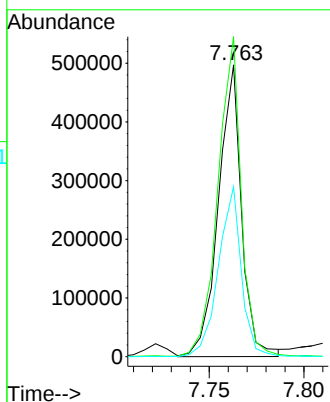
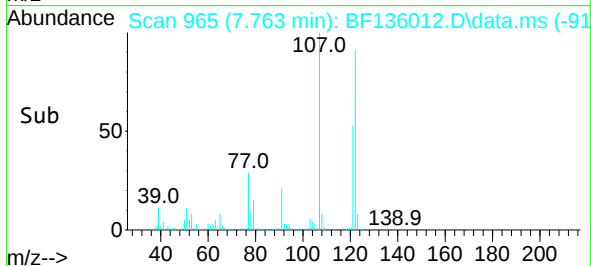
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



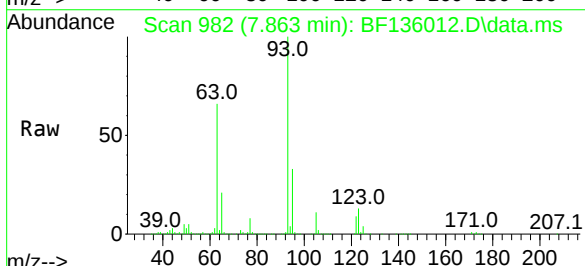
Tgt Ion:122 Resp: 42336  
Ion Ratio Lower Upper  
122 100  
107 109.7 87.1 130.7  
121 58.2 45.9 68.9

Manual Integrations  
APPROVED

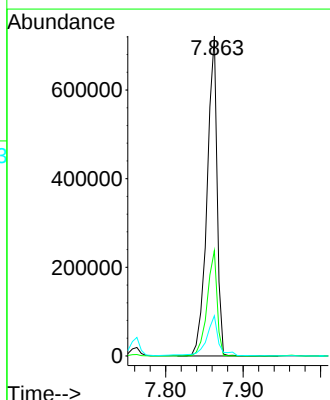
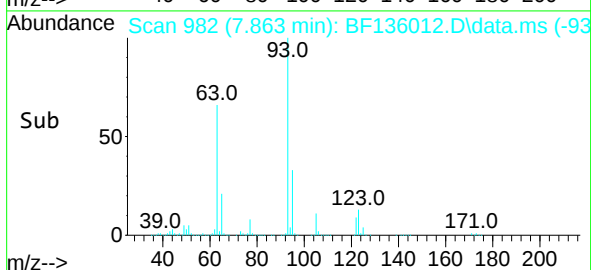
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

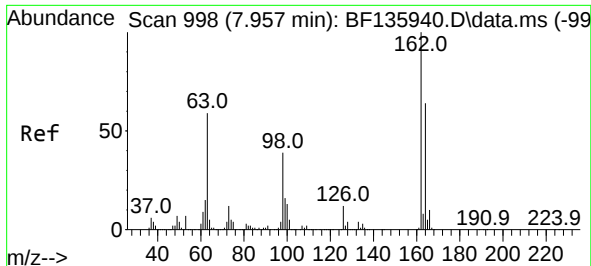


#28  
bis(2-Chloroethoxy)methane  
Concen: 53.946 ng  
RT: 7.863 min Scan# 982  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



Tgt Ion: 93 Resp: 646675  
Ion Ratio Lower Upper  
93 100  
95 32.9 25.9 38.9  
123 12.5 9.0 13.6





#29

2,4-Dichlorophenol

Concen: 57.321 ng

RT: 7.963 min Scan# 998

Delta R.T. 0.006 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

Instrument :

BNA\_F

ClientSampleId :

SU-622-VOC-04MSD

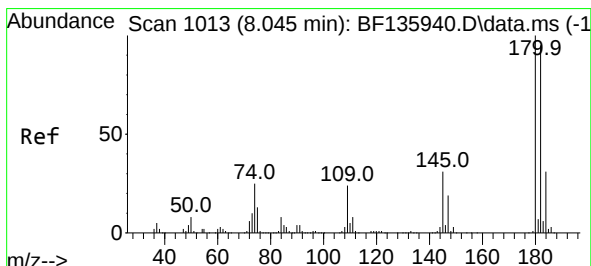
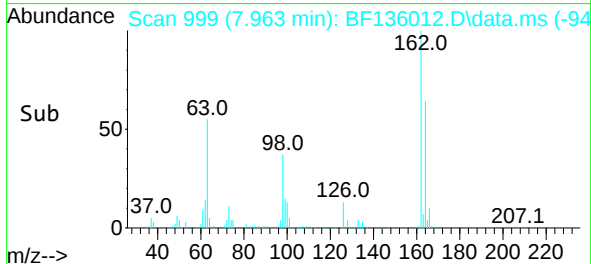
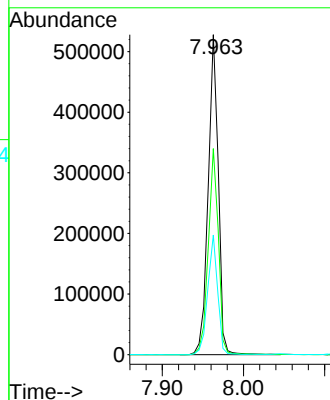
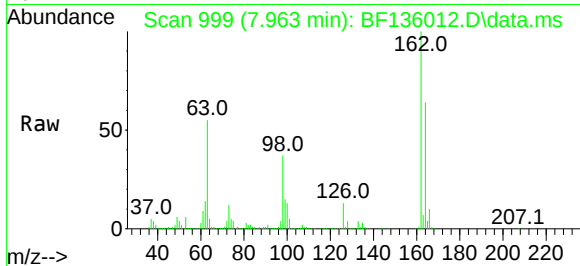
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 162   | Resp: | 45667 |
| Ion Ratio | Lower | Upper |       |
| 162       | 100   |       |       |
| 164       | 64.4  | 43.7  | 83.7  |
| 98        | 37.4  | 18.8  | 58.8  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#30

1,2,4-Trichlorobenzene

Concen: 55.872 ng

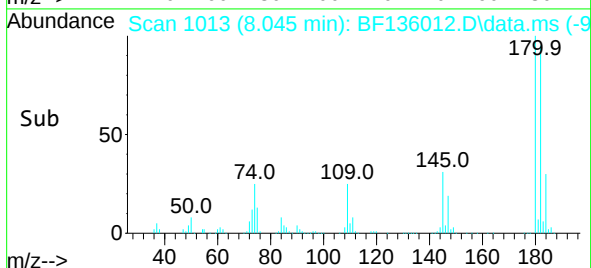
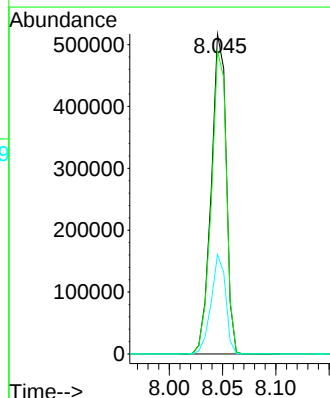
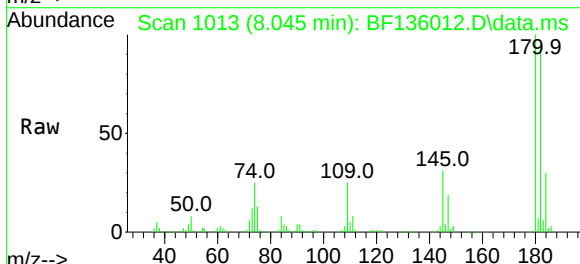
RT: 8.045 min Scan# 1013

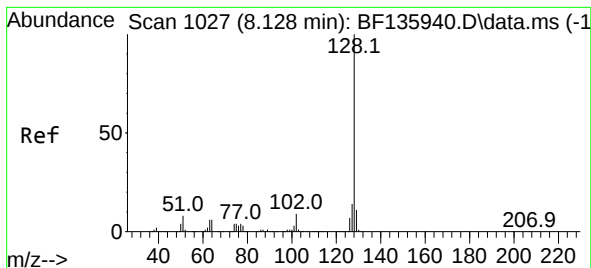
Delta R.T. -0.000 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 180   | Resp: | 503994 |
| Ion Ratio | Lower | Upper |        |
| 180       | 100   |       |        |
| 182       | 94.7  | 76.0  | 114.0  |
| 145       | 31.1  | 24.6  | 36.8   |





#31

Naphthalene

Concen: 53.608 ng

RT: 8.128 min Scan# 1027

Delta R.T. -0.000 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

Instrument :

BNA\_F

ClientSampleId :

SU-622-VOC-04MSD

Tgt Ion:128 Resp: 160064

Ion Ratio Lower Upper

128 100

129 11.4 9.0 13.6

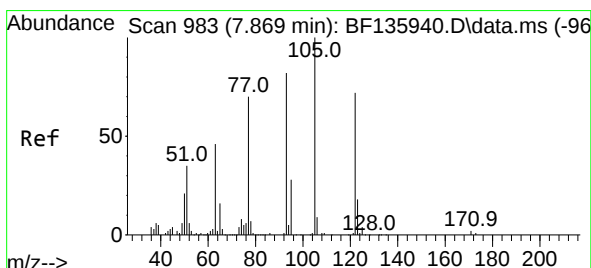
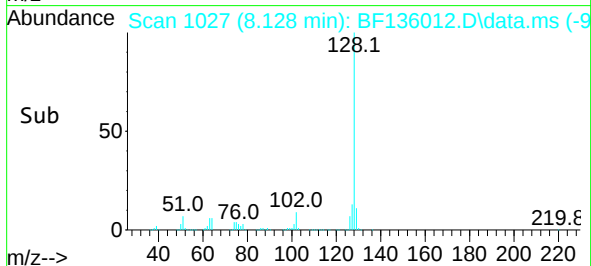
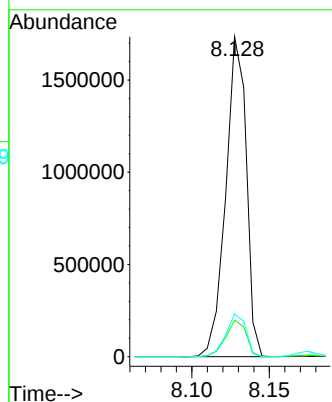
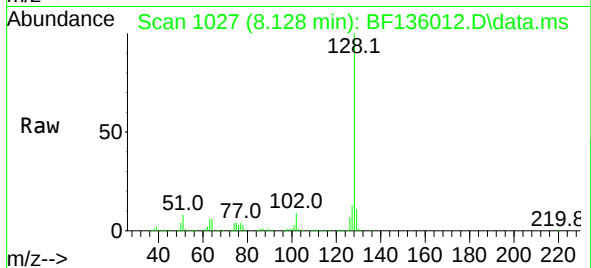
127 13.4 10.9 16.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#32

Benzoic acid

Concen: 63.725 ng

RT: 7.886 min Scan# 986

Delta R.T. 0.017 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

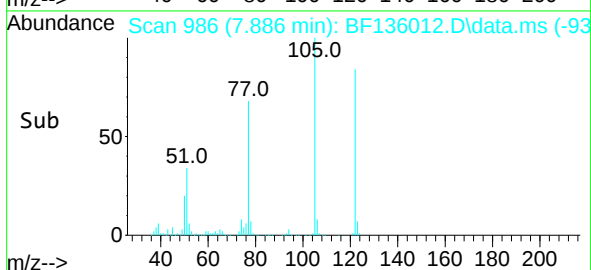
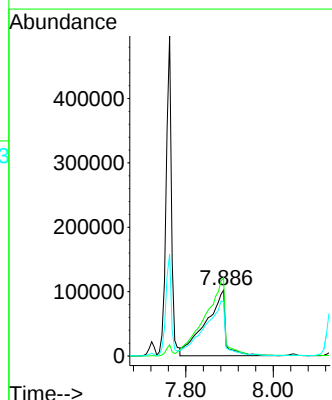
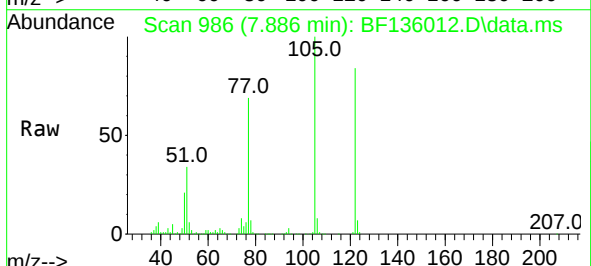
Tgt Ion:122 Resp: 327712

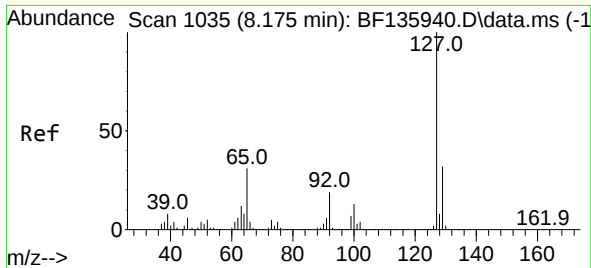
Ion Ratio Lower Upper

122 100

105 119.1 113.1 153.1

77 82.5 75.2 115.2





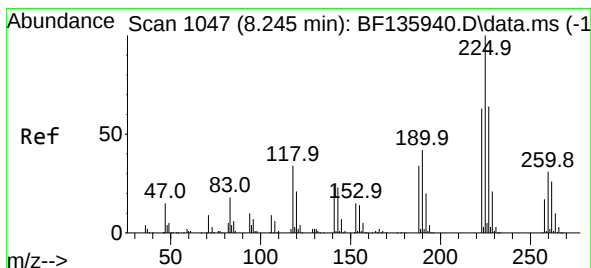
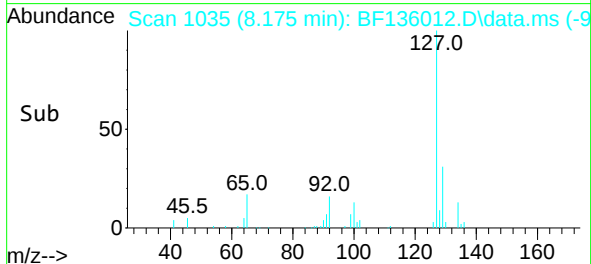
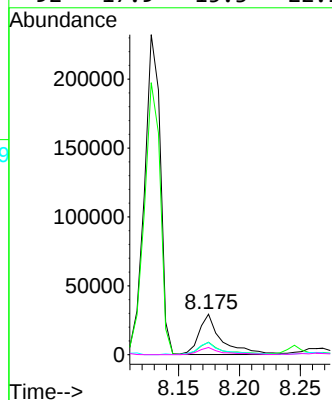
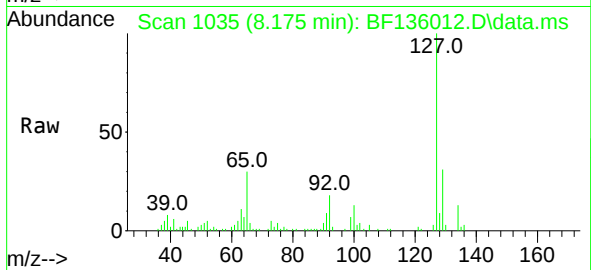
#33  
4-Chloroaniline  
Concen: 2.870 ng  
RT: 8.175 min Scan# 1035  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 127   | Resp: | 3787 |
| Ion Ratio | Lower | Upper |      |
| 127       | 100   |       |      |
| 129       | 30.6  | 25.7  | 38.5 |
| 65        | 29.9  | 24.8  | 37.2 |
| 92        | 17.9  | 15.3  | 22.9 |

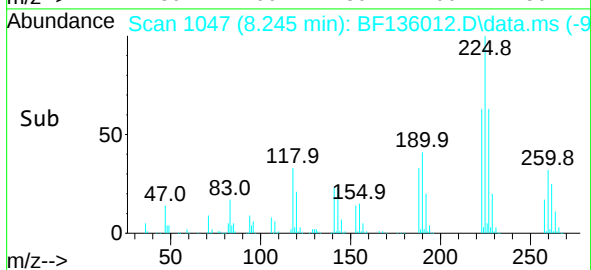
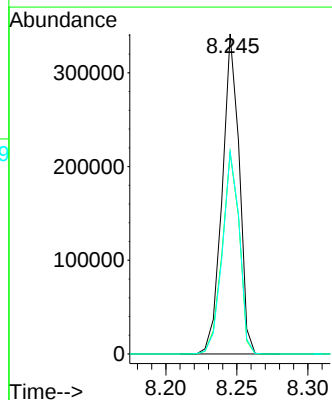
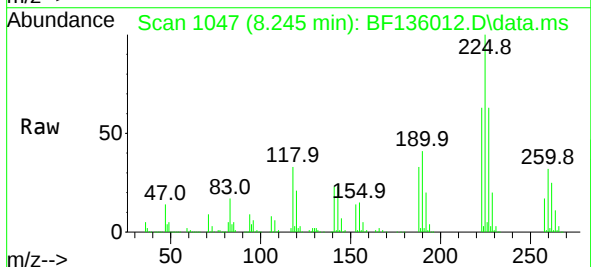
Manual Integrations  
APPROVED

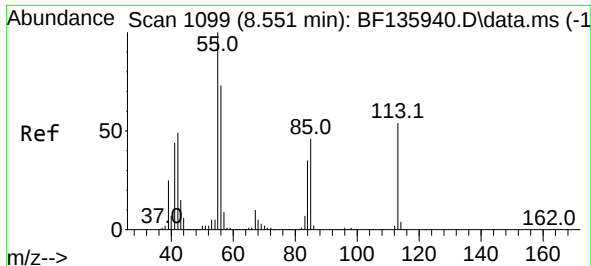
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#34  
Hexachlorobutadiene  
Concen: 55.598 ng  
RT: 8.245 min Scan# 1047  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

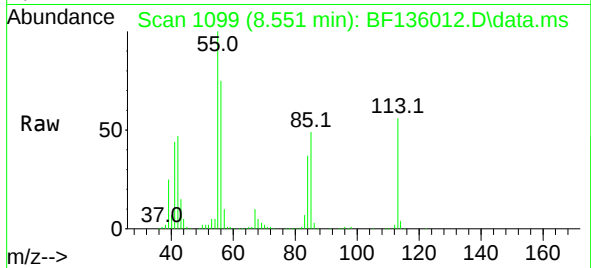
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 282682 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 63.0  | 50.6  | 75.8   |
| 227       | 63.2  | 50.9  | 76.3   |





#35  
Caprolactam  
Concen: 50.957 ng m  
RT: 8.551 min Scan# 1099  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

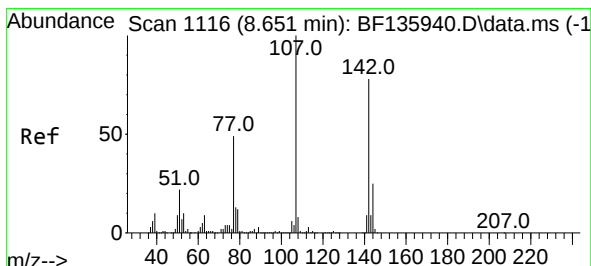
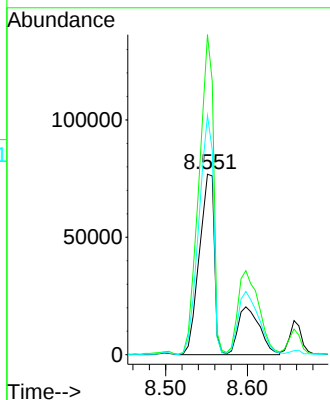
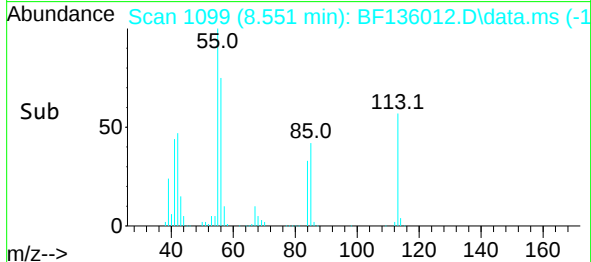
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



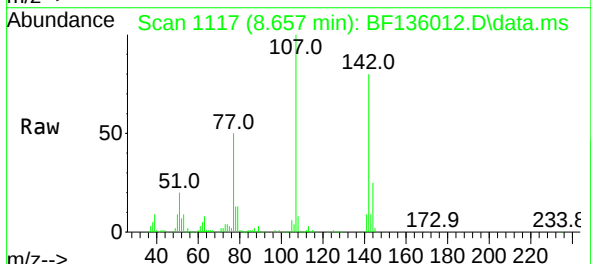
Tgt Ion:113 Resp: 135098  
Ion Ratio Lower Upper  
113 100  
55 177.2 165.4 205.4  
56 132.5 115.2 155.2

Manual Integrations  
APPROVED

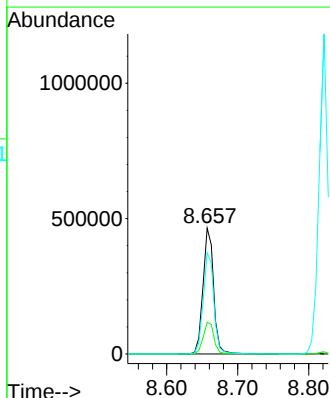
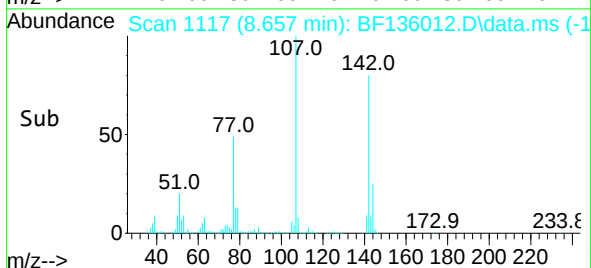
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

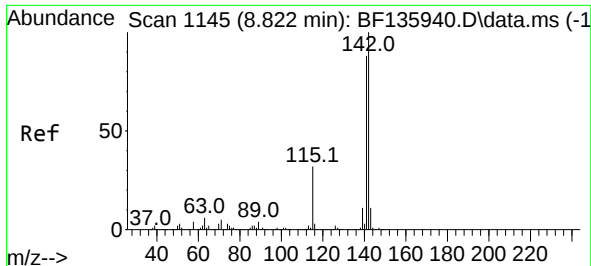


#36  
4-Chloro-3-methylphenol  
Concen: 57.041 ng  
RT: 8.657 min Scan# 1117  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



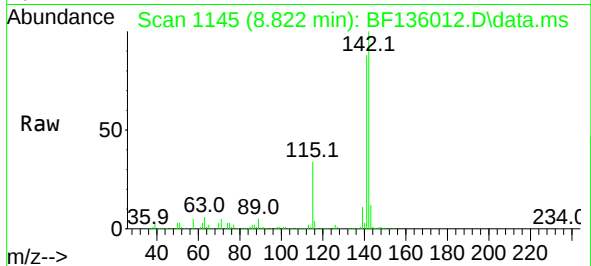
Tgt Ion:107 Resp: 482938  
Ion Ratio Lower Upper  
107 100  
144 25.2 19.9 29.9  
142 80.4 62.8 94.2





#37  
2-Methylnaphthalene  
Concen: 50.631 ng  
RT: 8.822 min Scan# 1145  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

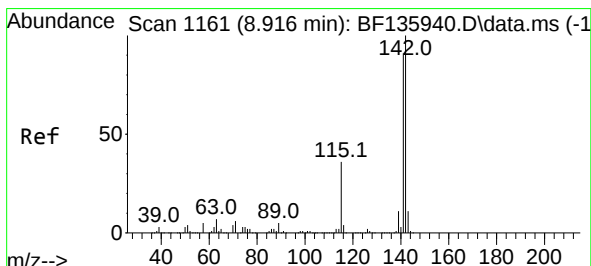
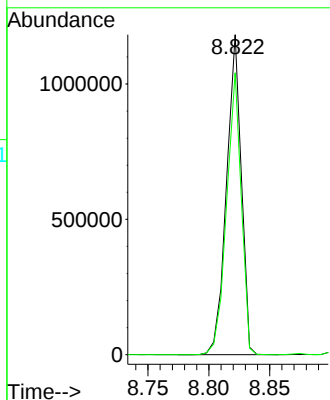
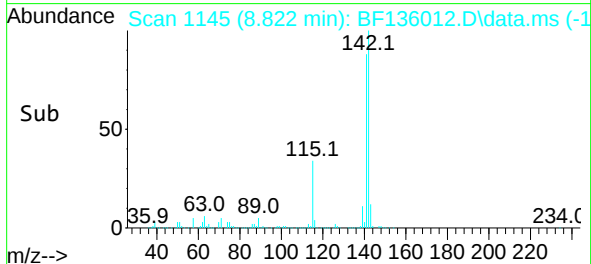
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



Tgt Ion:142 Resp: 1000240  
Ion Ratio Lower Upper  
142 100  
141 88.1 70.4 105.6

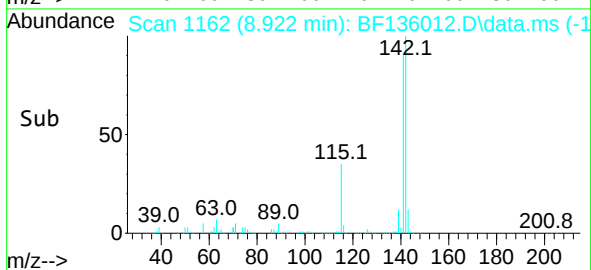
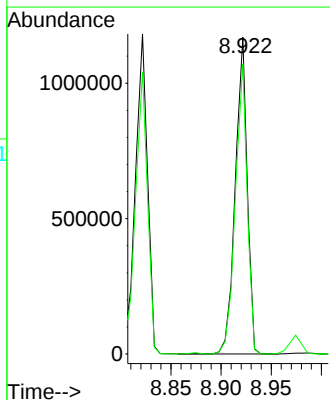
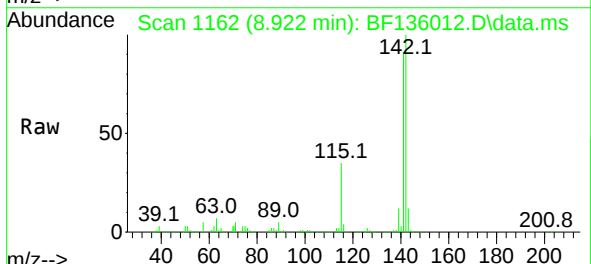
Manual Integrations  
APPROVED

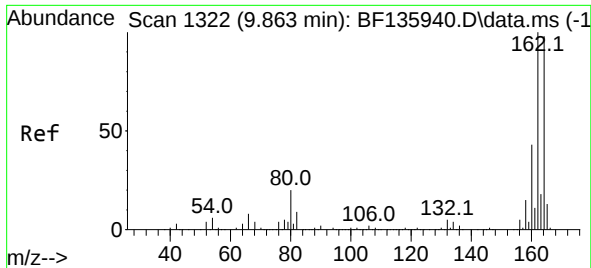
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#38  
1-Methylnaphthalene  
Concen: 52.713 ng  
RT: 8.922 min Scan# 1162  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

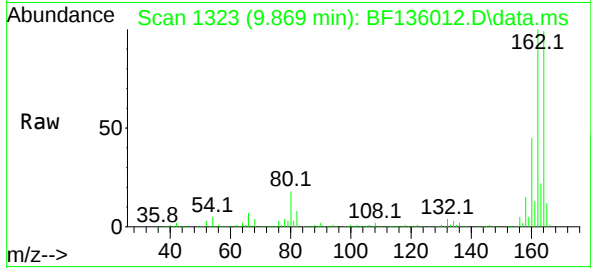
Tgt Ion:142 Resp: 973047  
Ion Ratio Lower Upper  
142 100  
141 91.5 73.1 109.7





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.869 min Scan# 1173  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

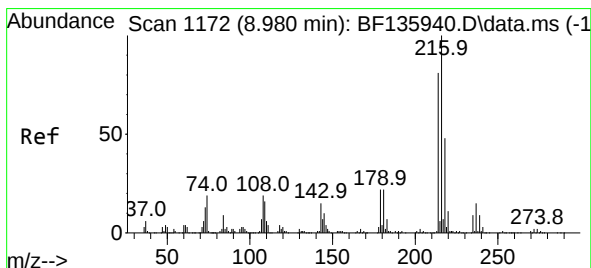
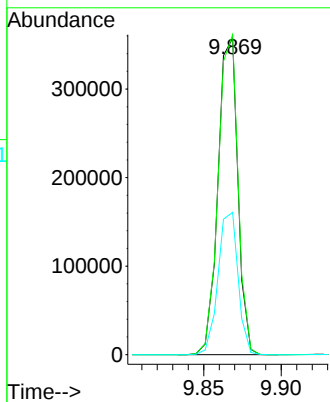
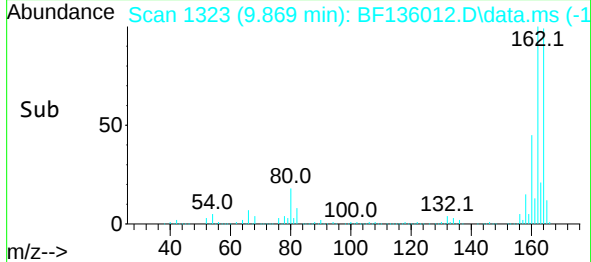
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



Tgt Ion:164 Resp: 318318  
Ion Ratio Lower Upper  
164 100  
162 101.1 82.0 123.0  
160 45.0 35.6 53.4

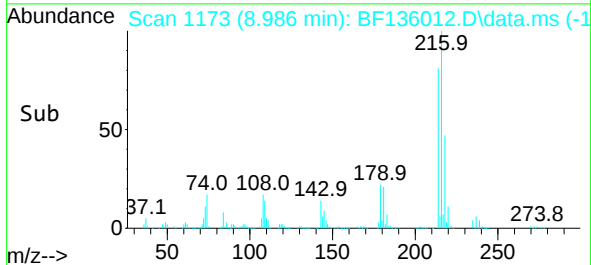
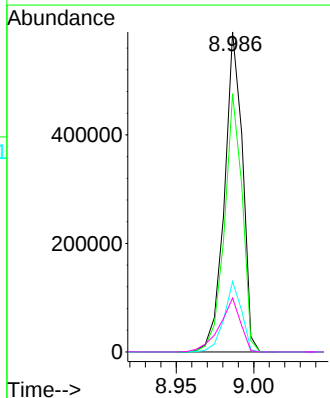
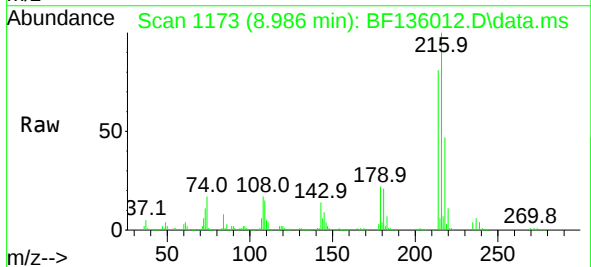
Manual Integrations  
APPROVED

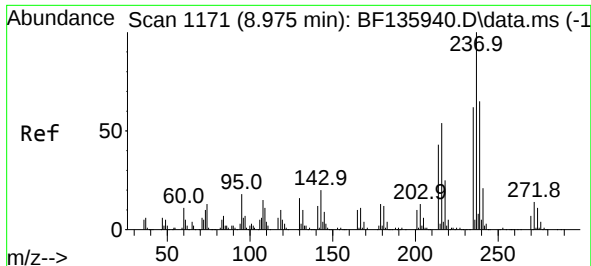
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#40  
1,2,4,5-Tetrachlorobenzene  
Concen: 53.012 ng  
RT: 8.986 min Scan# 1173  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

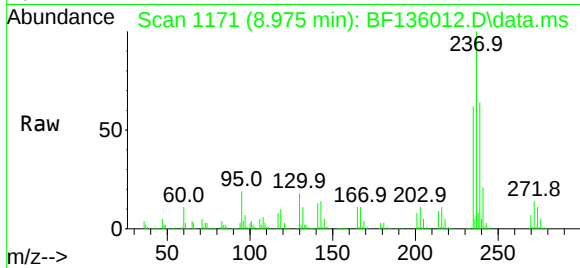
Tgt Ion:216 Resp: 476611  
Ion Ratio Lower Upper  
216 100  
214 79.4 63.3 94.9  
179 21.3 17.3 25.9  
108 19.5 15.2 22.8





#41  
Hexachlorocyclopentadiene  
Concen: 106.668 ng  
RT: 8.975 min Scan# 1171  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

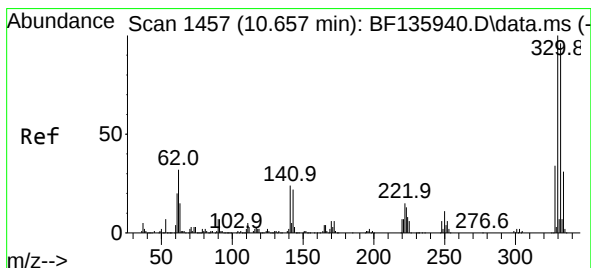
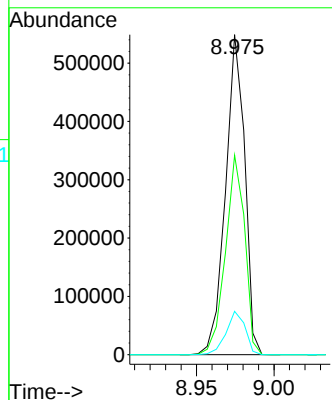
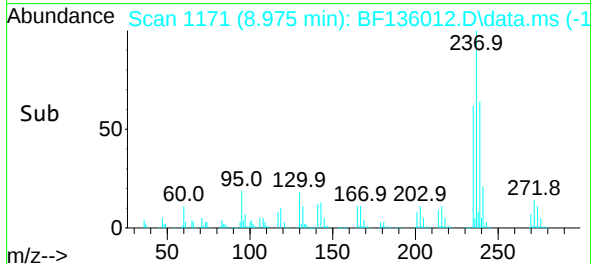
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



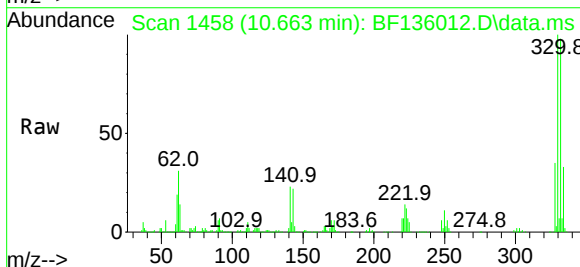
Tgt Ion:237 Resp: 472872  
Ion Ratio Lower Upper  
237 100  
235 62.3 41.7 81.7  
272 13.5 0.0 33.6

Manual Integrations  
APPROVED

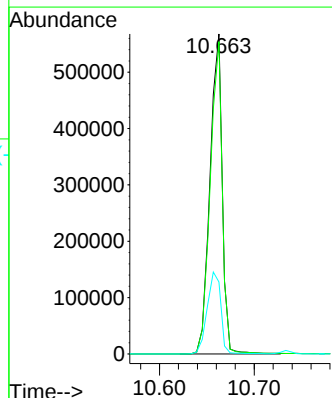
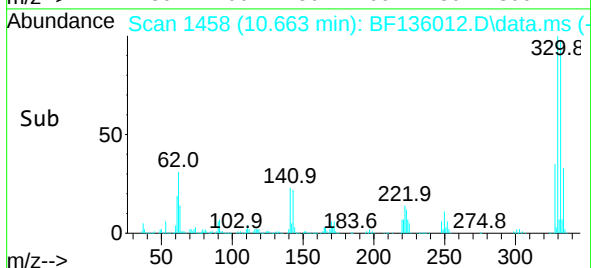
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

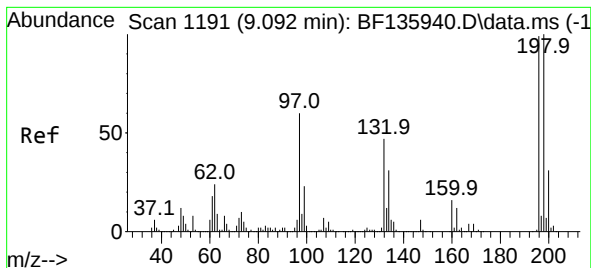


#42  
2,4,6-Tribromophenol  
Concen: 182.985 ng  
RT: 10.663 min Scan# 1458  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



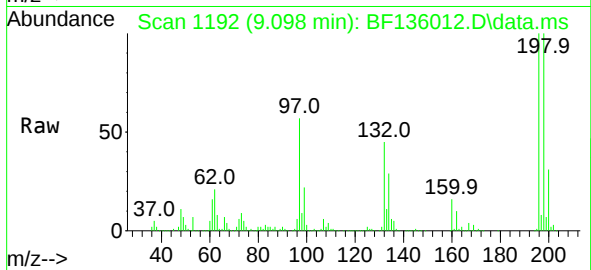
Tgt Ion:330 Resp: 509837  
Ion Ratio Lower Upper  
330 100  
332 96.8 77.4 116.2  
141 28.5 24.9 37.3





#43  
2,4,6-Trichlorophenol  
Concen: 60.580 ng  
RT: 9.098 min Scan# 1191  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

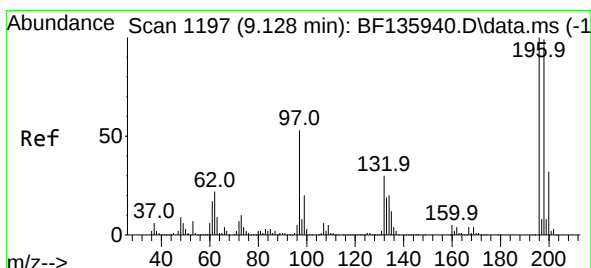
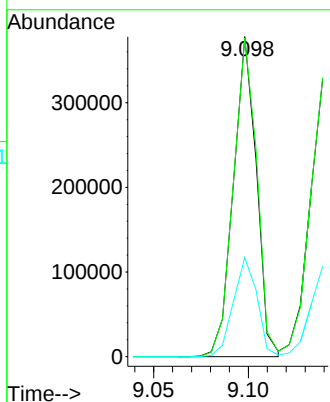
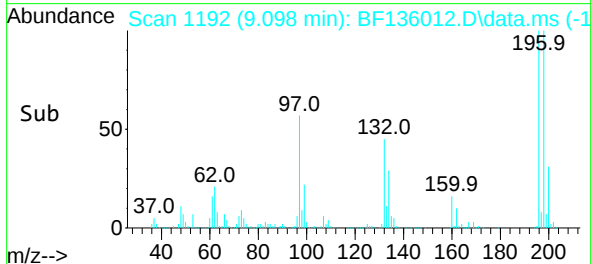
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



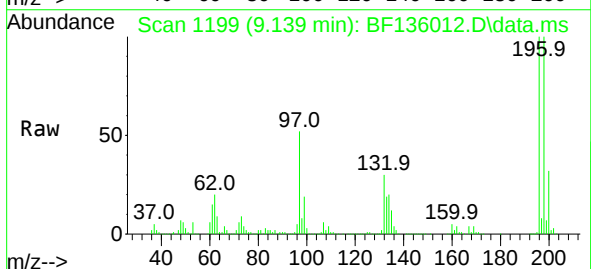
Tgt Ion:196 Resp: 318775  
Ion Ratio Lower Upper  
196 100  
198 99.5 81.0 121.4  
200 31.0 25.4 38.0

Manual Integrations  
APPROVED

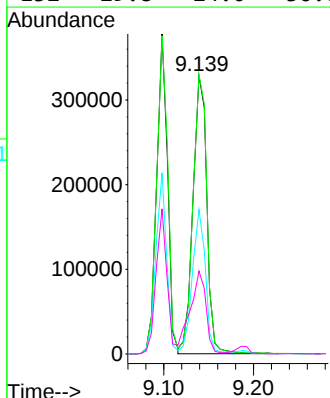
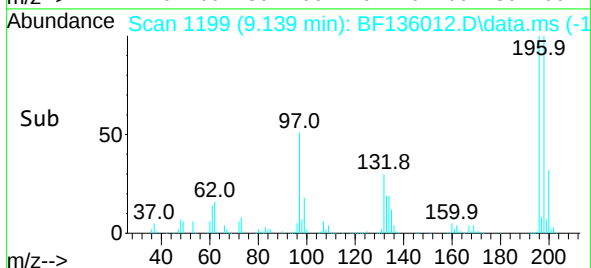
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

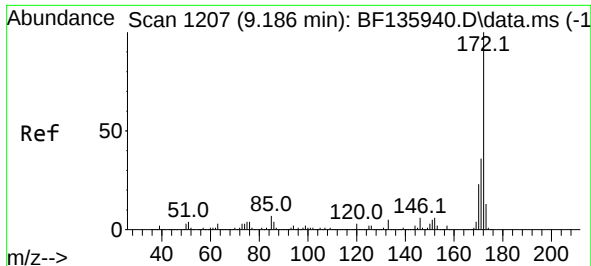


#44  
2,4,5-Trichlorophenol  
Concen: 56.626 ng  
RT: 9.139 min Scan# 1199  
Delta R.T. 0.012 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



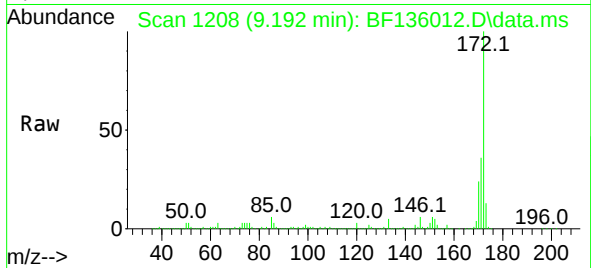
Tgt Ion:196 Resp: 353785  
Ion Ratio Lower Upper  
196 100  
198 100.3 79.1 118.7  
97 51.8 42.3 63.5  
132 29.8 24.0 36.0





#45  
2-Fluorobiphenyl  
Concen: 95.559 ng  
RT: 9.192 min Scan# 1208  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

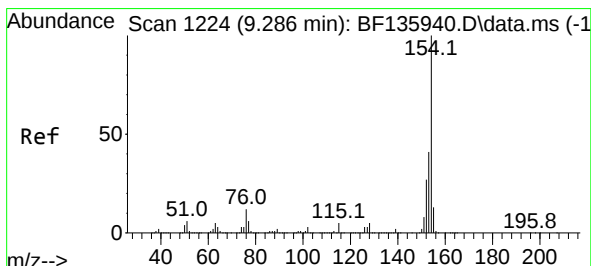
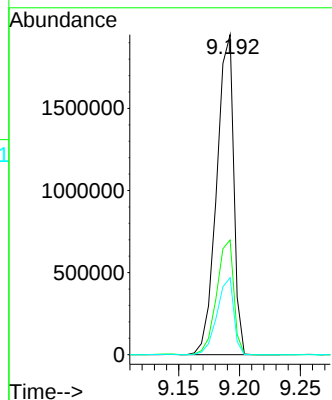
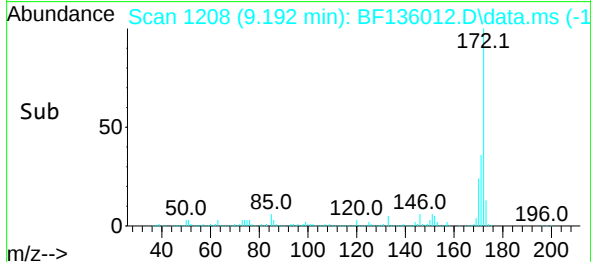
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



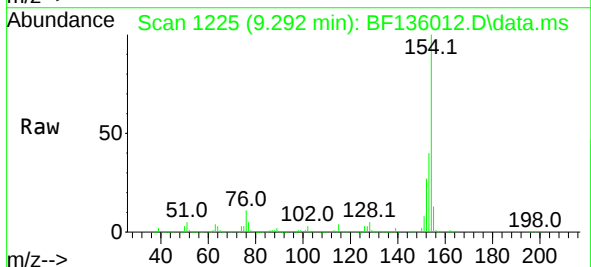
Tgt Ion:172 Resp: 189964  
Ion Ratio Lower Upper  
172 100  
171 35.9 28.6 43.0  
170 24.0 18.6 28.0

Manual Integrations  
APPROVED

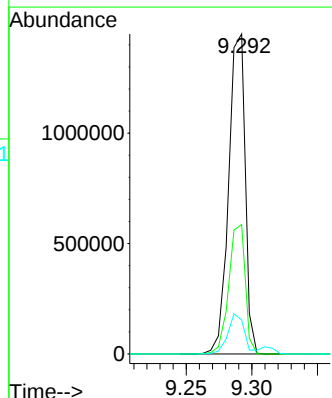
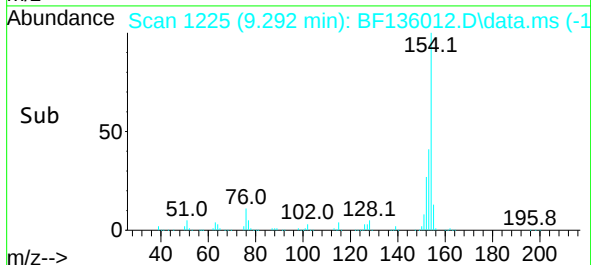
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

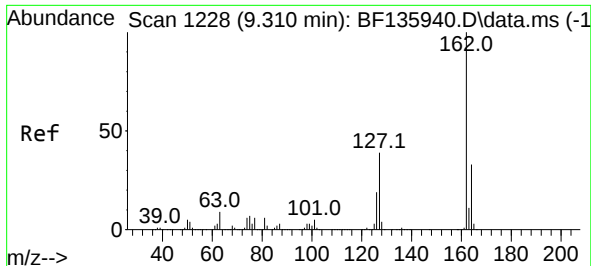


#46  
1,1'-Biphenyl  
Concen: 52.786 ng  
RT: 9.292 min Scan# 1225  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



Tgt Ion:154 Resp: 1273196  
Ion Ratio Lower Upper  
154 100  
153 40.5 20.7 60.7  
76 10.7 0.0 32.4





#47

2-Chloronaphthalene

Concen: 54.374 ng

RT: 9.310 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

Instrument :

BNA\_F

ClientSampleId :

SU-622-VOC-04MSD

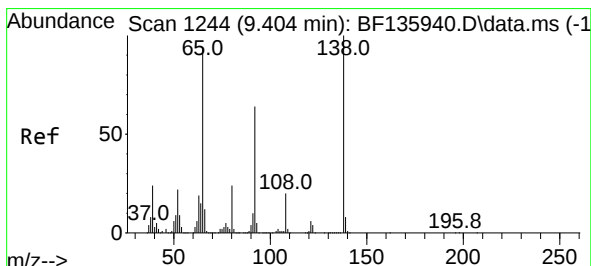
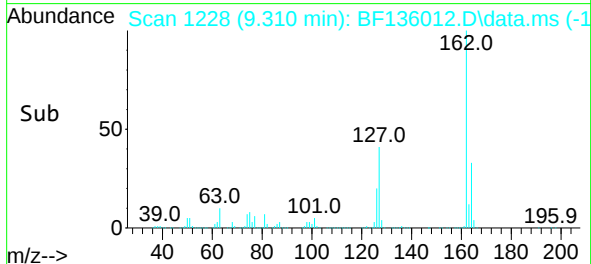
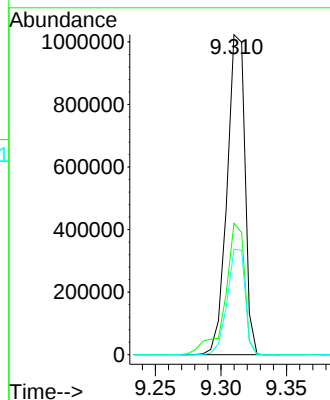
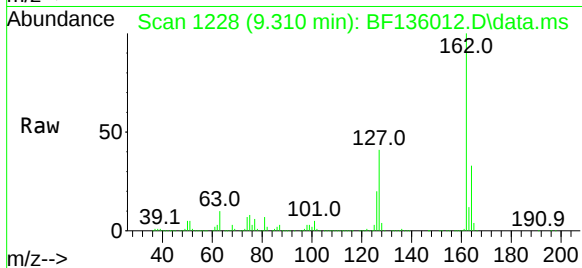
Tgt Ion:162 Resp: 970072  
 Ion Ratio Lower Upper  
 162 100  
 127 41.1 31.0 46.4  
 164 32.9 26.6 39.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#48

2-Nitroaniline

Concen: 59.044 ng

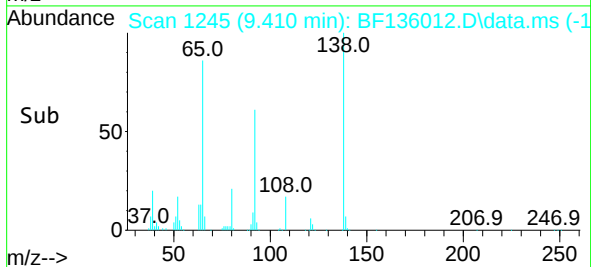
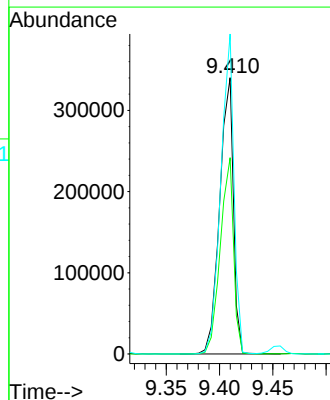
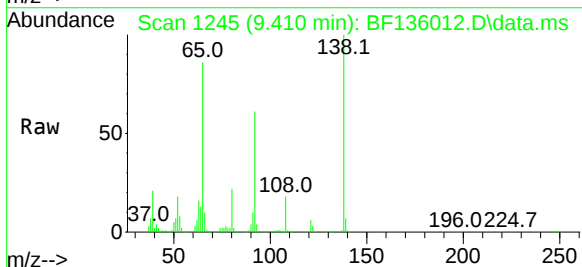
RT: 9.410 min Scan# 1245

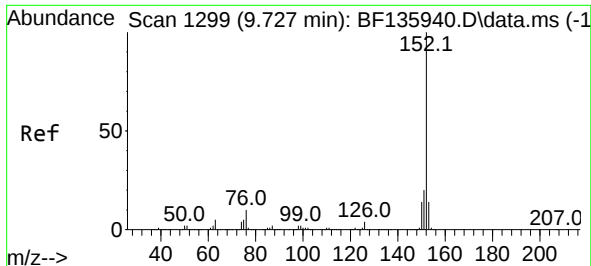
Delta R.T. 0.006 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

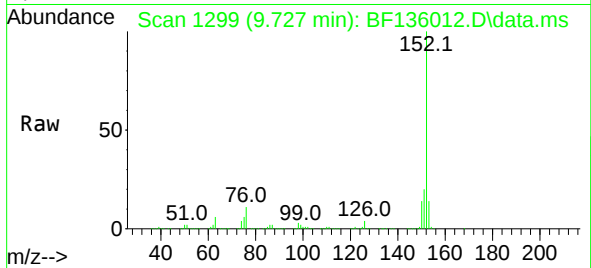
Tgt Ion: 65 Resp: 303074  
 Ion Ratio Lower Upper  
 65 100  
 92 71.0 54.9 82.3  
 138 115.8 85.2 127.8





#49  
Acenaphthylene  
Concen: 54.548 ng  
RT: 9.727 min Scan# 1299  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

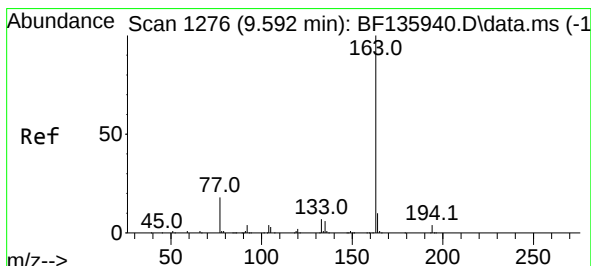
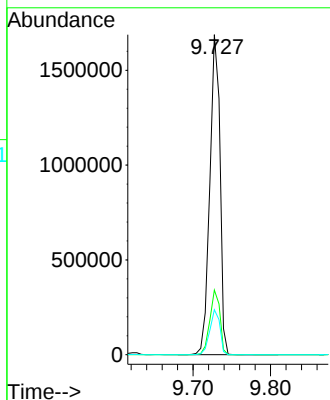
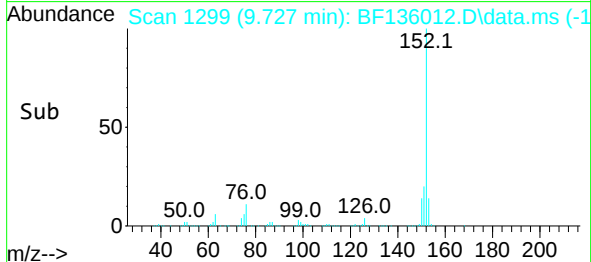
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



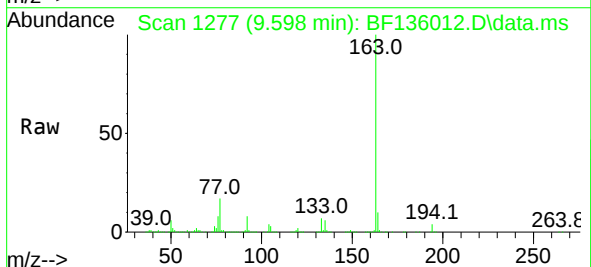
Tgt Ion:152 Resp: 1535270  
Ion Ratio Lower Upper  
152 100  
151 20.2 16.0 24.0  
153 14.0 11.0 16.6

Manual Integrations  
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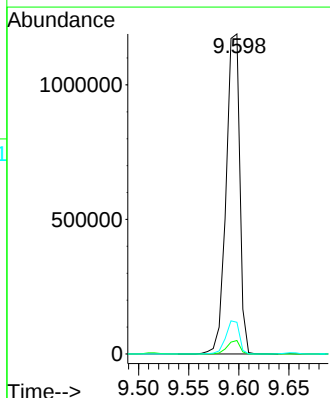
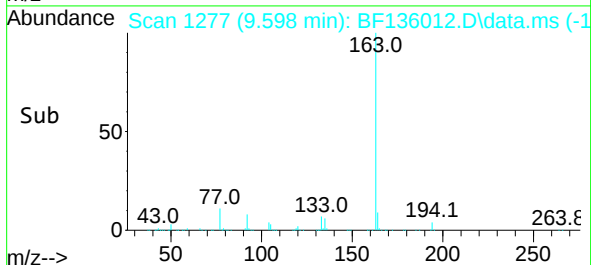
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

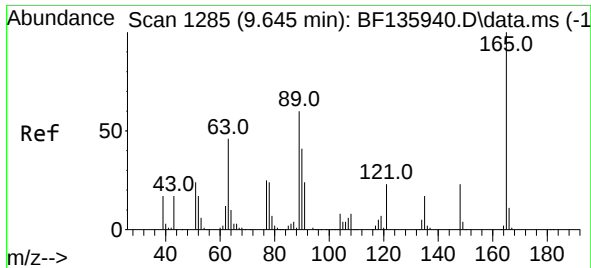


#50  
Dimethylphthalate  
Concen: 54.228 ng  
RT: 9.598 min Scan# 1277  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



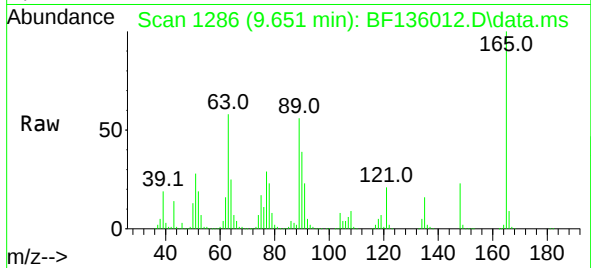
Tgt Ion:163 Resp: 1119421  
Ion Ratio Lower Upper  
163 100  
194 4.2 3.4 5.0  
164 9.9 8.3 12.5





#51  
2,6-Dinitrotoluene  
Concen: 59.200 ng  
RT: 9.651 min Scan# 1286  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

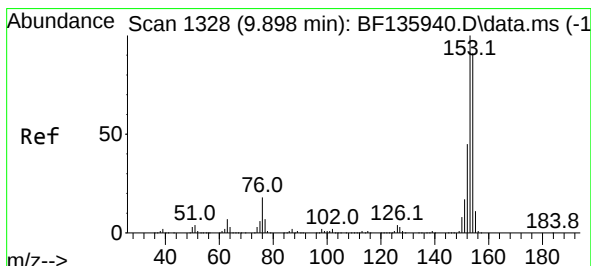
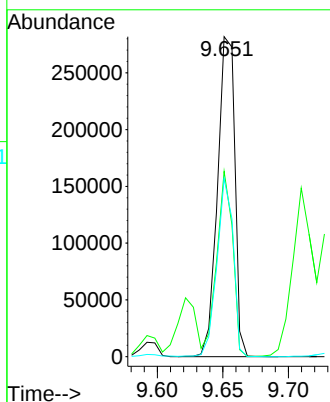
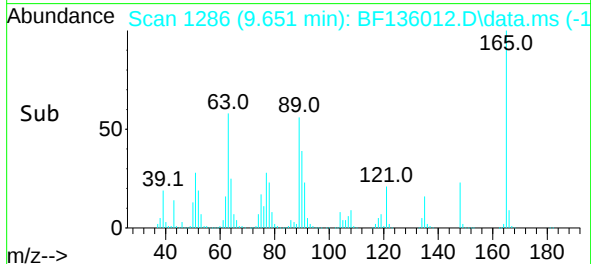
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



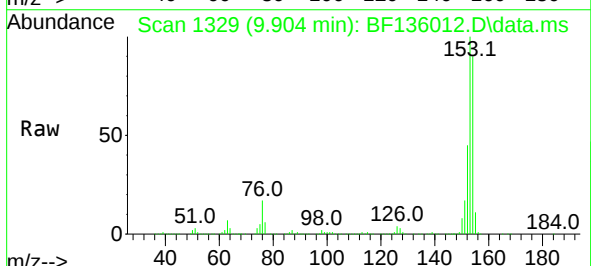
Tgt Ion:165 Resp: 258752  
Ion Ratio Lower Upper  
165 100  
63 57.9 51.7 77.5  
89 55.7 48.3 72.5

Manual Integrations  
APPROVED

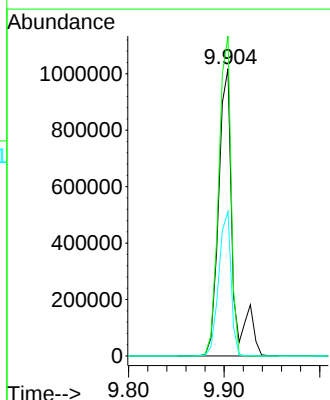
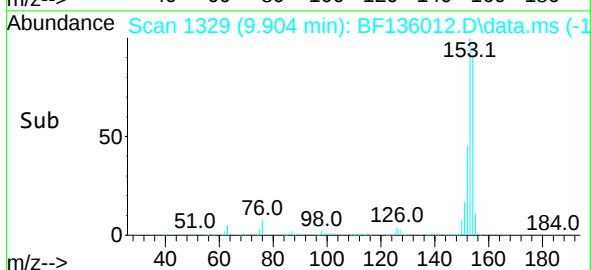
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

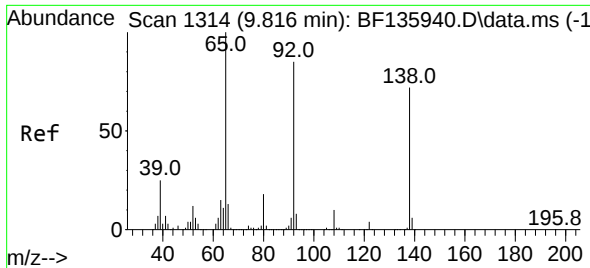


#52  
Acenaphthene  
Concen: 58.220 ng m  
RT: 9.904 min Scan# 1329  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



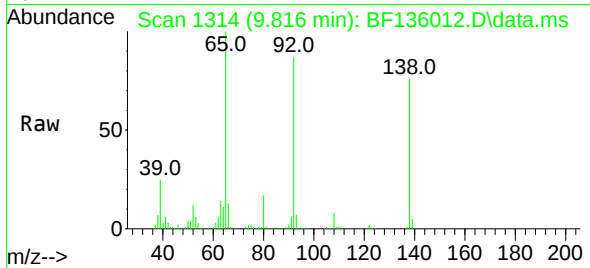
Tgt Ion:154 Resp: 1050149  
Ion Ratio Lower Upper  
154 100  
153 111.4 88.0 132.0  
152 50.2 39.4 59.2





#53  
3-Nitroaniline  
Concen: 29.988 ng  
RT: 9.816 min Scan# 1314  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

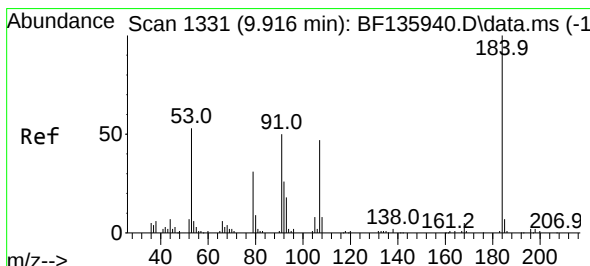
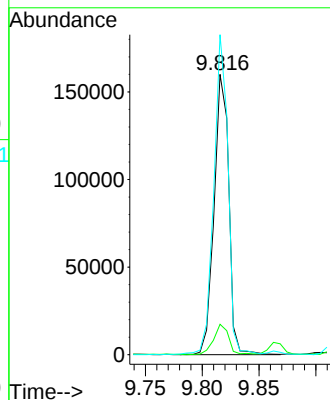
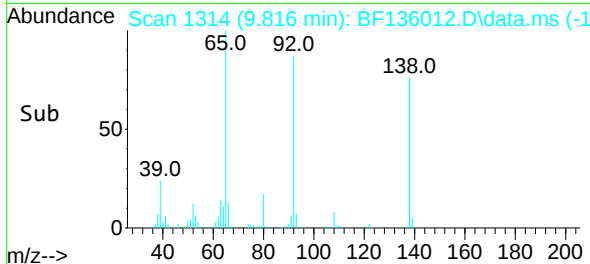
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



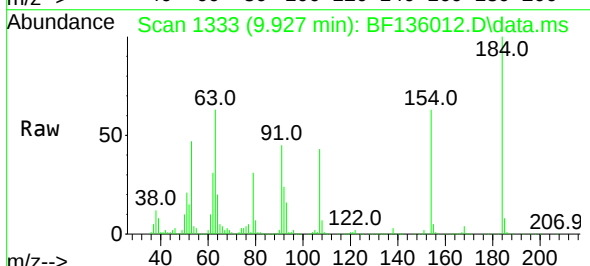
Tgt Ion:138 Resp: 143880  
Ion Ratio Lower Upper  
138 100  
108 10.8 11.3 16.9  
92 114.2 95.0 142.6

Manual Integrations  
APPROVED

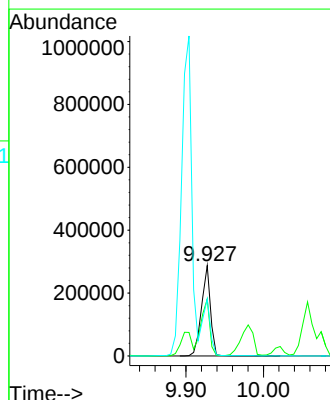
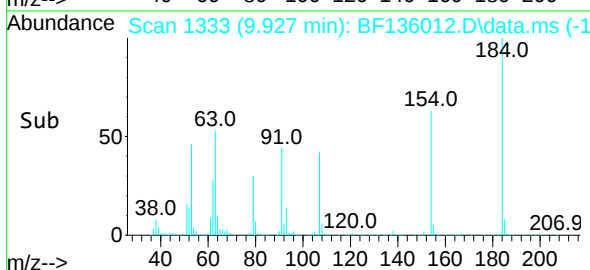
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

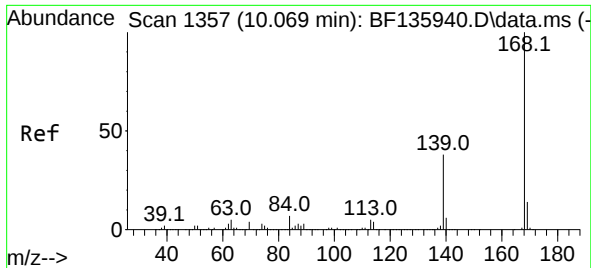


#54  
2,4-Dinitrophenol  
Concen: 108.727 ng  
RT: 9.927 min Scan# 1333  
Delta R.T. 0.011 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



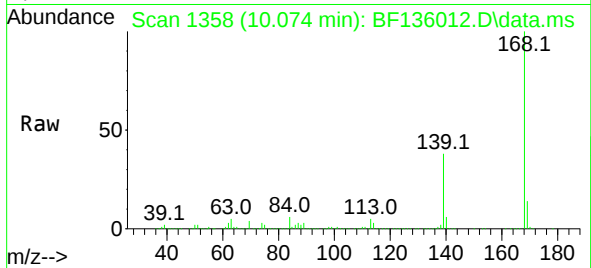
Tgt Ion:184 Resp: 232866  
Ion Ratio Lower Upper  
184 100  
63 62.9 56.3 84.5  
154 63.2 48.1 72.1





#55  
Dibenzenofuran  
Concen: 51.719 ng  
RT: 10.074 min Scan# 1357  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

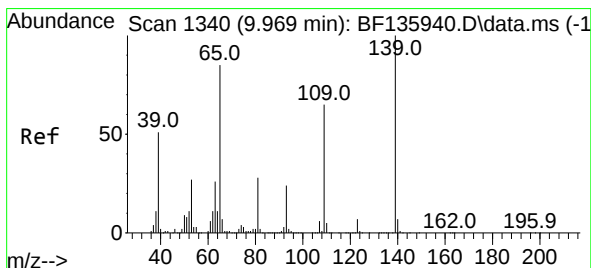
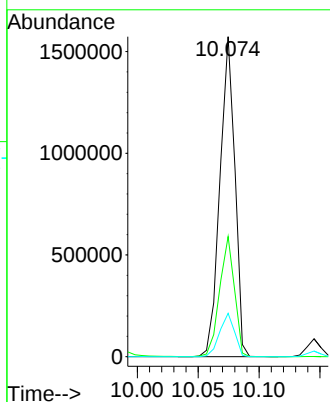
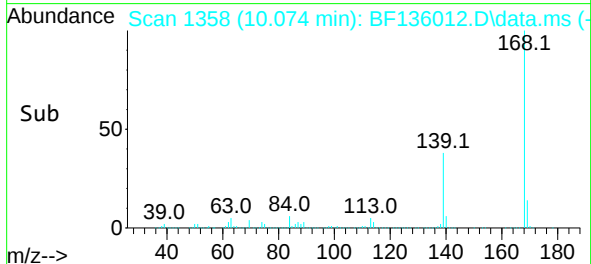
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



Tgt Ion:168 Resp: 1347697  
Ion Ratio Lower Upper  
168 100  
139 37.6 30.7 46.1  
169 13.5 11.1 16.7

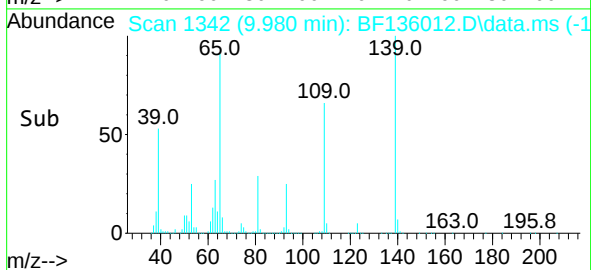
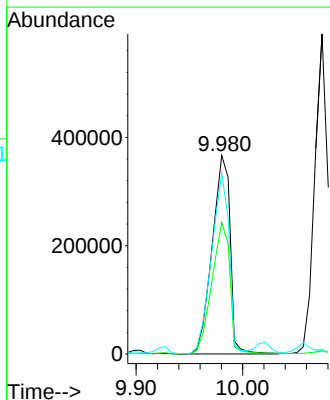
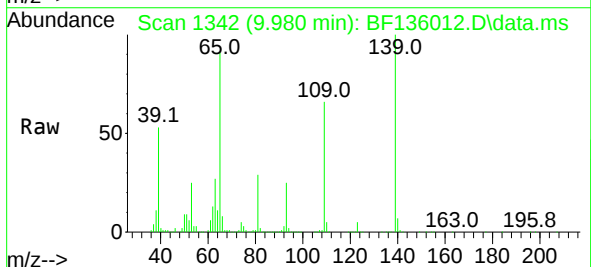
Manual Integrations  
APPROVED

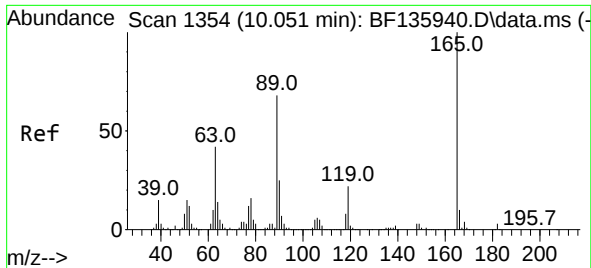
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#56  
4-Nitrophenol  
Concen: 101.107 ng  
RT: 9.980 min Scan# 1342  
Delta R.T. 0.011 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

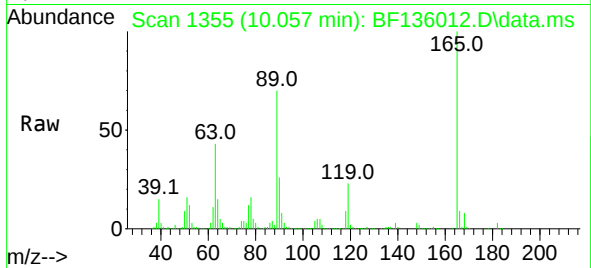
Tgt Ion:139 Resp: 428407  
Ion Ratio Lower Upper  
139 100  
109 66.2 45.2 85.2  
65 91.0 65.1 105.1





#57  
2,4-Dinitrotoluene  
Concen: 62.827 ng  
RT: 10.057 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

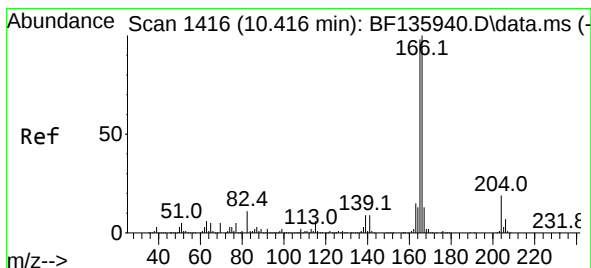
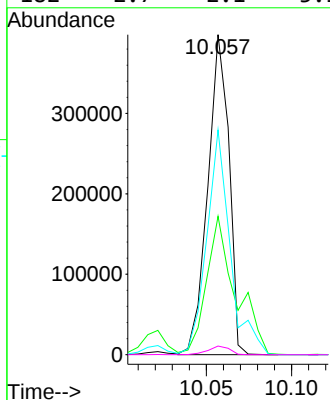
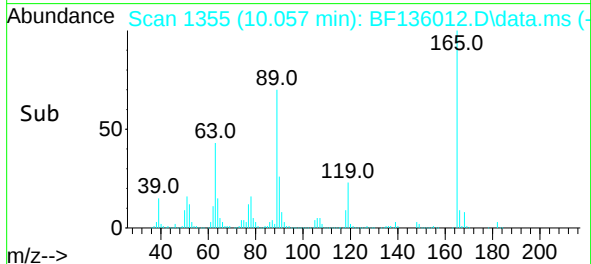
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



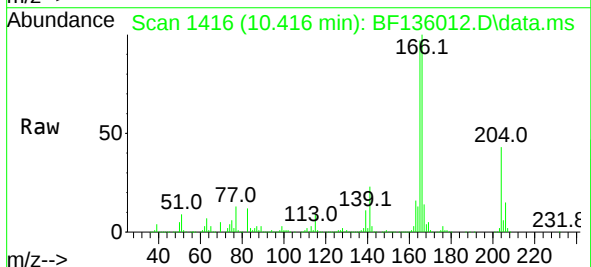
Tgt Ion:165 Resp: 343668  
Ion Ratio Lower Upper  
165 100  
63 43.2 33.7 50.5  
89 70.3 54.6 81.8  
182 2.7 2.1 3.1

Manual Integrations  
APPROVED

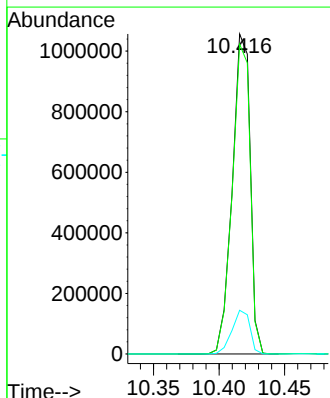
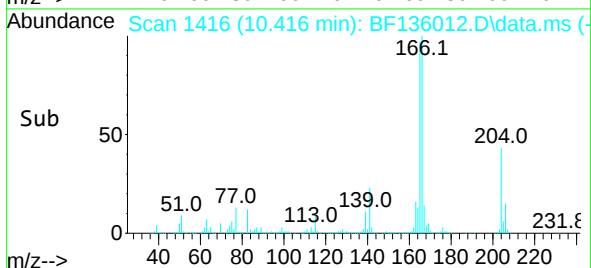
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

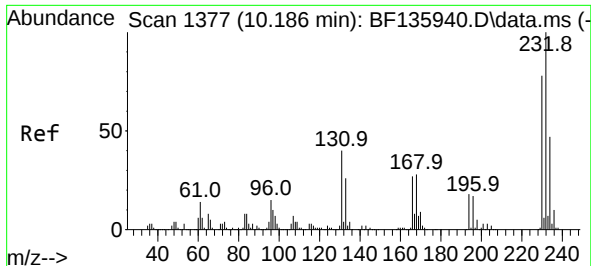


#58  
Fluorene  
Concen: 51.563 ng  
RT: 10.416 min Scan# 1416  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



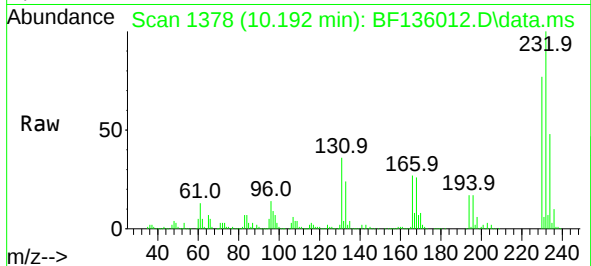
Tgt Ion:166 Resp: 1005235  
Ion Ratio Lower Upper  
166 100  
165 96.8 78.0 117.0  
167 13.6 10.6 16.0





#59  
2,3,4,6-Tetrachlorophenol  
Concen: 63.615 ng  
RT: 10.192 min Scan# 1378  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

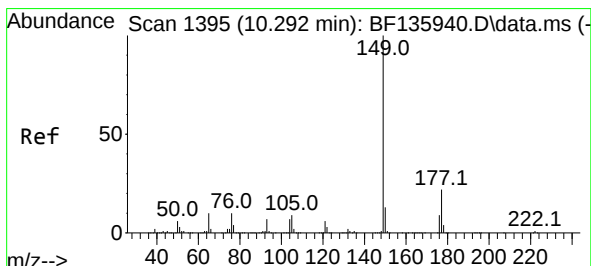
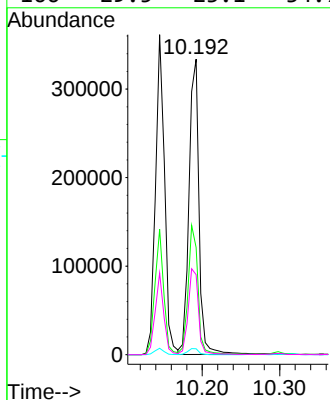
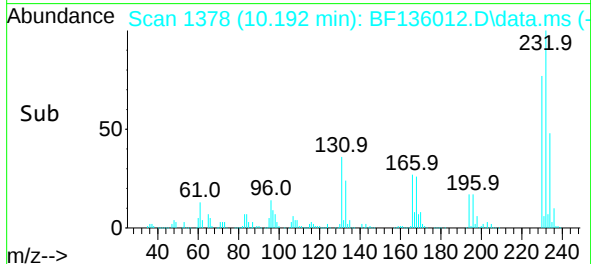
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



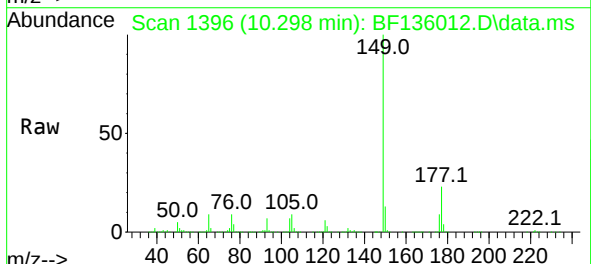
Tgt Ion:232 Resp: 299071  
Ion Ratio Lower Upper  
232 100  
131 42.8 35.2 52.8  
130 2.3 1.7 2.5  
166 29.5 23.1 34.7

Manual Integrations  
APPROVED

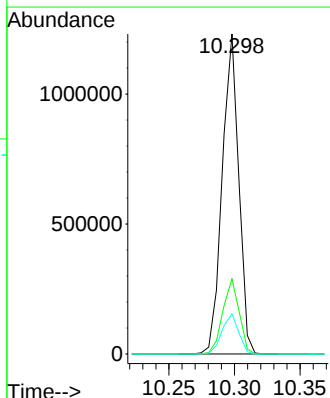
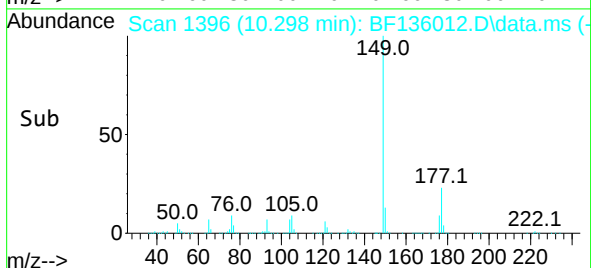
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

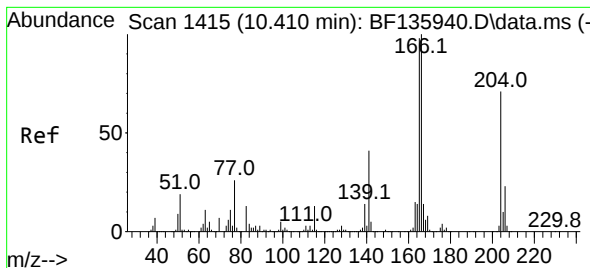


#60  
Diethylphthalate  
Concen: 54.650 ng  
RT: 10.298 min Scan# 1396  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



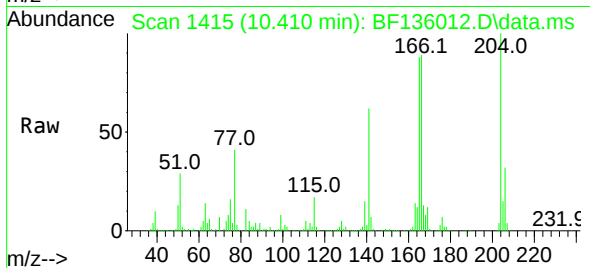
Tgt Ion:149 Resp: 1075778  
Ion Ratio Lower Upper  
149 100  
177 23.4 17.9 26.9  
150 12.5 10.2 15.2





#61  
4-Chlorophenyl-phenylether  
Concen: 50.773 ng  
RT: 10.410 min Scan# 1415  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

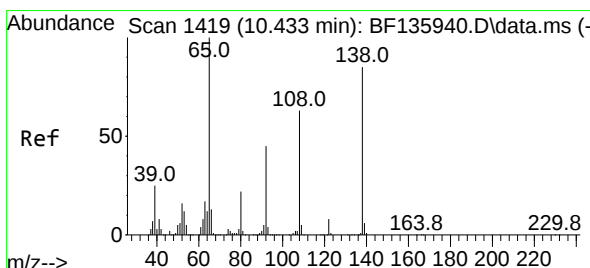
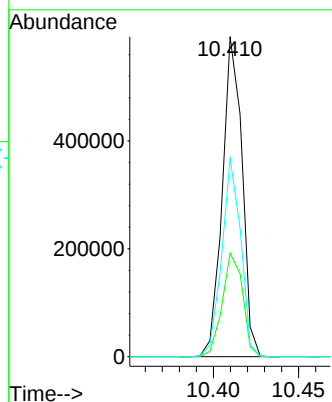
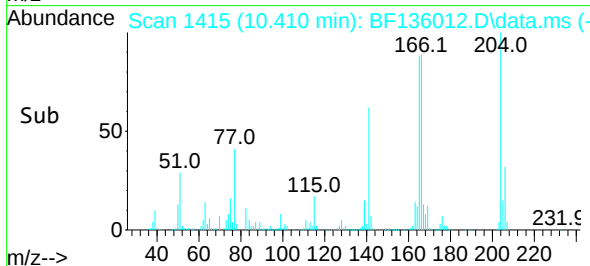
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



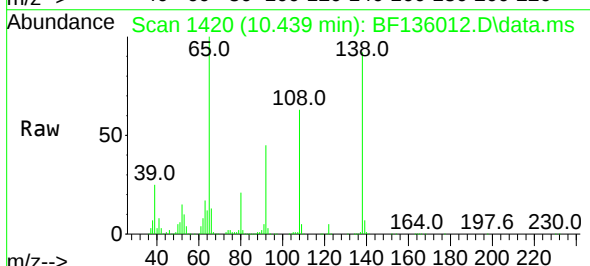
Tgt Ion:204 Resp: 477472  
Ion Ratio Lower Upper  
204 100  
206 32.4 26.4 39.6  
141 61.9 46.2 69.2

Manual Integrations  
APPROVED

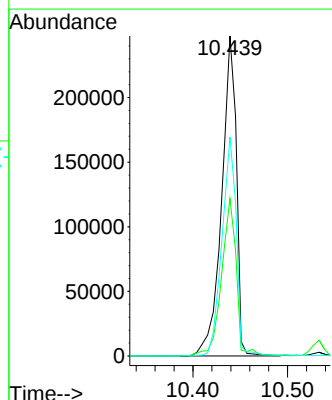
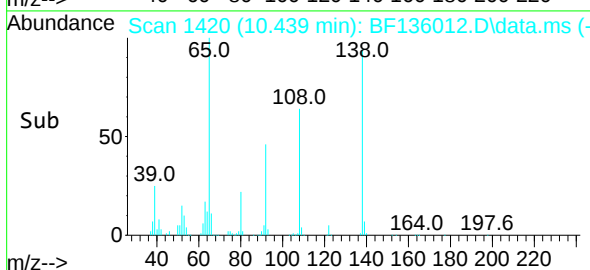
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

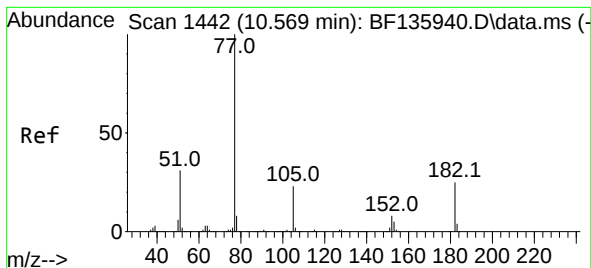


#62  
4-Nitroaniline  
Concen: 52.329 ng  
RT: 10.439 min Scan# 1420  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



Tgt Ion:138 Resp: 267688  
Ion Ratio Lower Upper  
138 100  
92 49.2 32.9 72.9  
108 68.5 53.5 93.5





#63

Azobenzene

Concen: 51.094 ng

RT: 10.574 min Scan# 1443

Delta R.T. 0.006 min

Lab File: BF136012.D

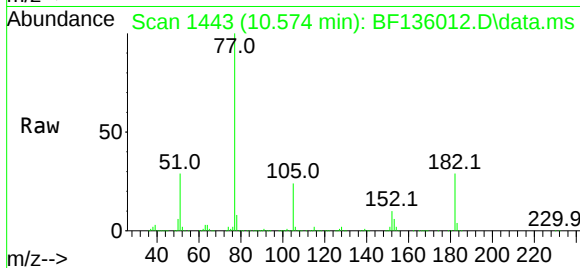
Acq: 28 Oct 2023 18:42

Instrument :

BNA\_F

ClientSampleId :

SU-622-VOC-04MSD



Tgt Ion: 77 Resp: 1020680

Ion Ratio Lower Upper

77 100

182 28.6 5.1 45.1

105 23.6 2.8 42.8

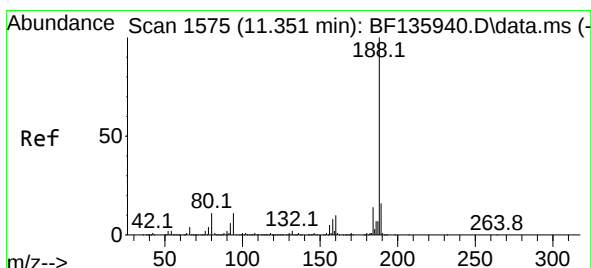
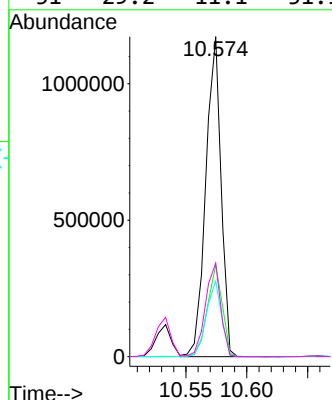
51 29.2 11.1 51.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.357 min Scan# 1576

Delta R.T. 0.006 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

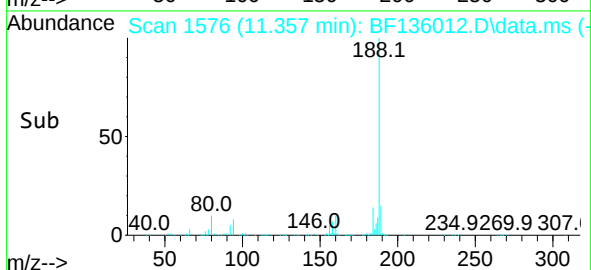
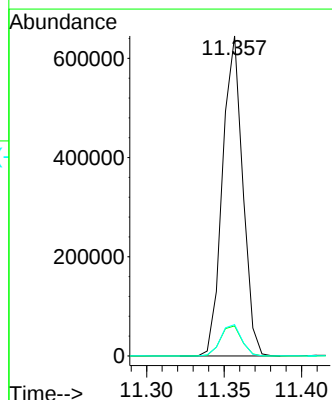
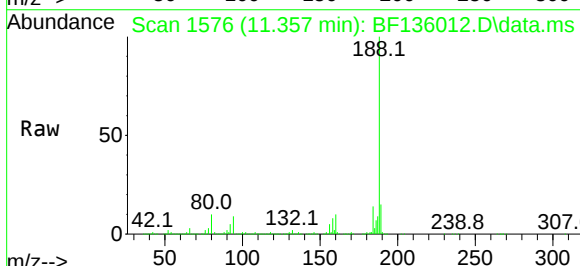
Tgt Ion:188 Resp: 584504

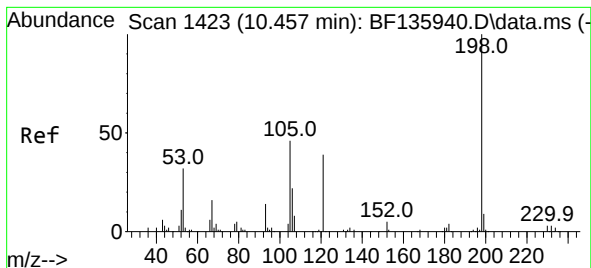
Ion Ratio Lower Upper

188 100

94 9.4 8.6 13.0

80 9.8 9.0 13.6





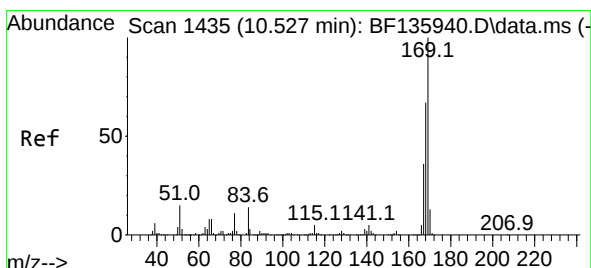
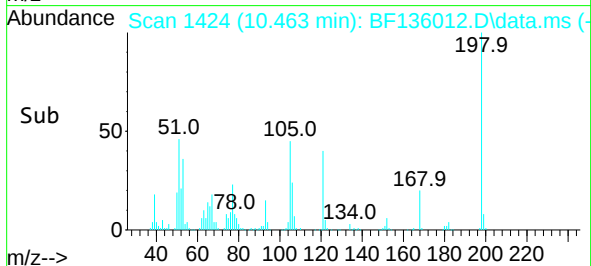
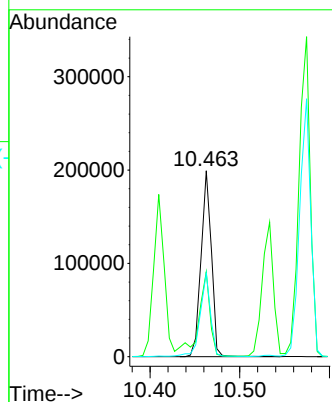
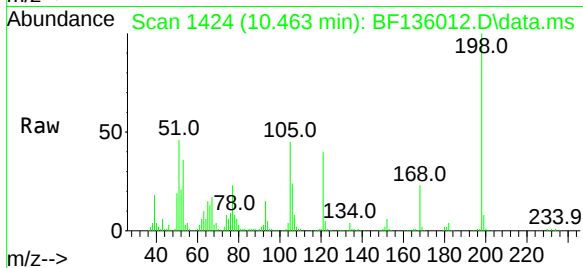
#65  
4,6-Dinitro-2-methylphenol  
Concen: 68.881 ng  
RT: 10.463 min Scan# 1423  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD

Tgt Ion:198 Resp: 159610  
Ion Ratio Lower Upper  
198 100  
51 45.6 28.7 68.7  
105 45.0 27.2 67.2

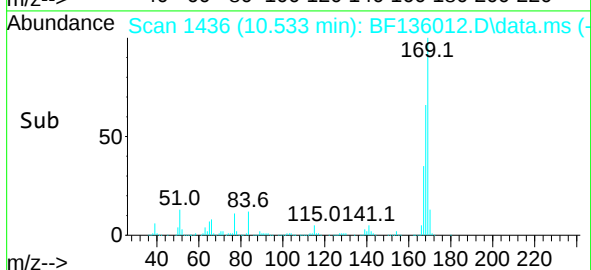
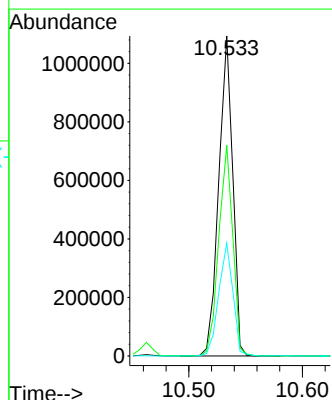
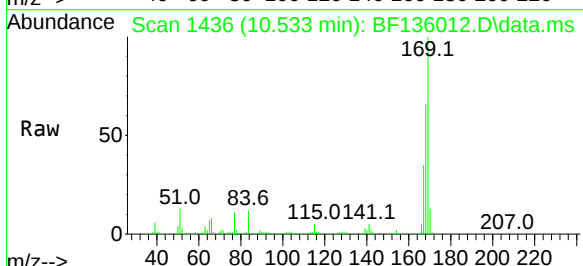
Manual Integrations  
APPROVED

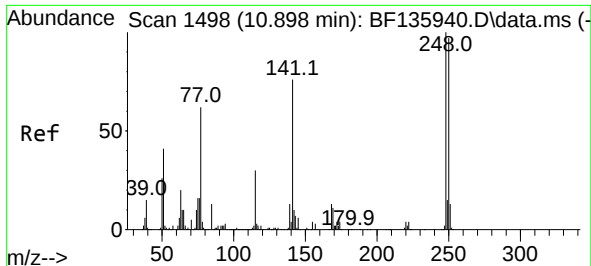
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#66  
n-Nitrosodiphenylamine  
Concen: 53.049 ng  
RT: 10.533 min Scan# 1436  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

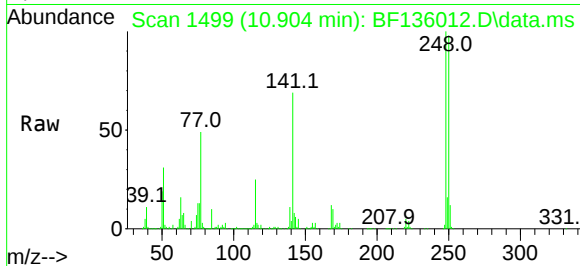
Tgt Ion:169 Resp: 936738  
Ion Ratio Lower Upper  
169 100  
168 65.8 53.5 80.3  
167 35.2 29.0 43.4





#67  
4-Bromophenyl-phenylether  
Concen: 54.915 ng  
RT: 10.904 min Scan# 1499  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

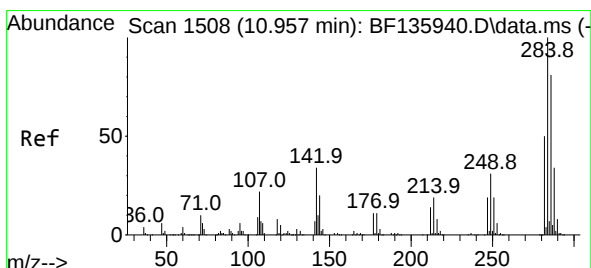
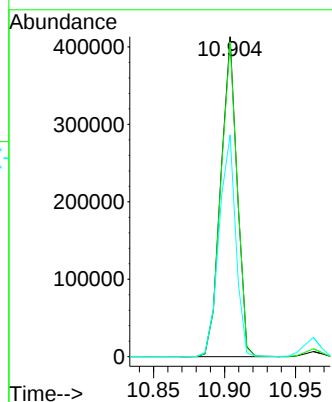
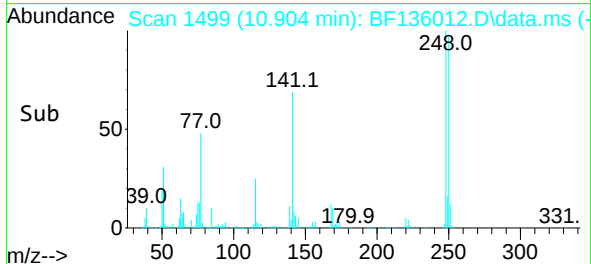
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



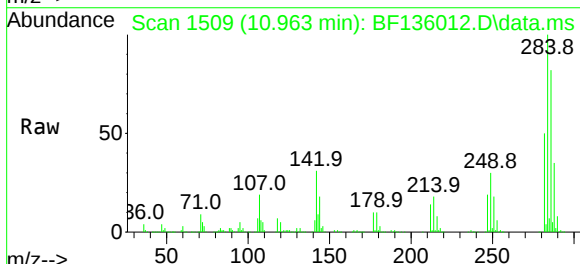
Tgt Ion:248 Resp: 32872  
Ion Ratio Lower Upper  
248 100  
250 98.4 77.9 116.9  
141 69.3 60.8 91.2

Manual Integrations  
APPROVED

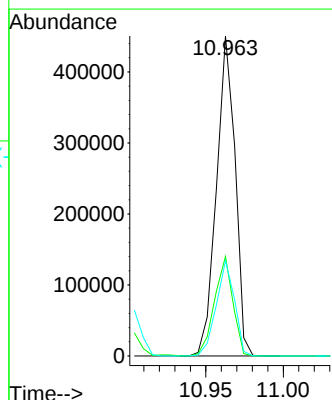
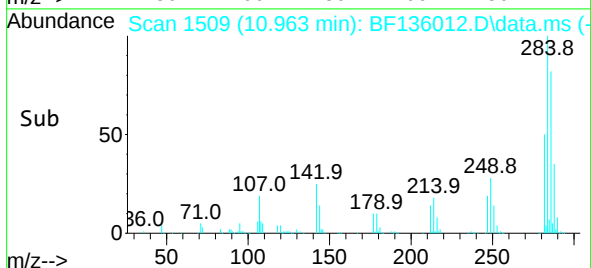
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

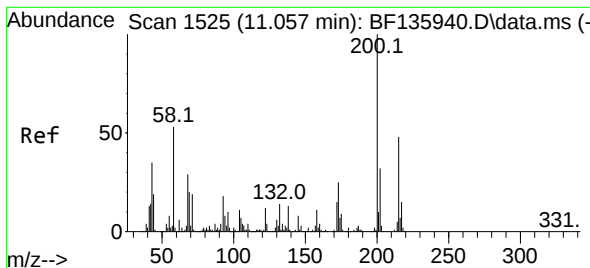


#68  
Hexachlorobenzene  
Concen: 58.992 ng  
RT: 10.963 min Scan# 1509  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



Tgt Ion:284 Resp: 377224  
Ion Ratio Lower Upper  
284 100  
142 31.1 27.6 41.4  
249 29.7 24.7 37.1





#69

Atrazine

Concen: 69.215 ng

RT: 11.063 min Scan# 11

Delta R.T. 0.006 min

Lab File: BF136012.D

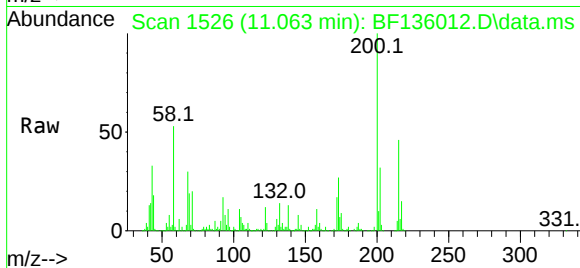
Acq: 28 Oct 2023 18:42

Instrument :

BNA\_F

ClientSampleId :

SU-622-VOC-04MSD



Tgt Ion:200 Resp: 333179

Ion Ratio Lower Upper

200 100

173 27.3 5.5 45.5

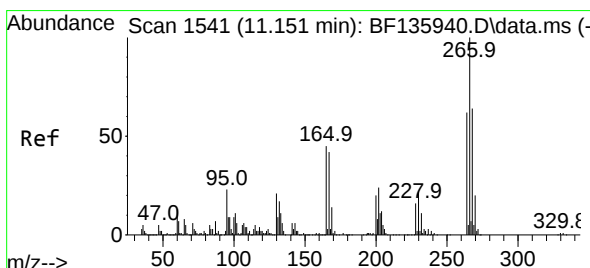
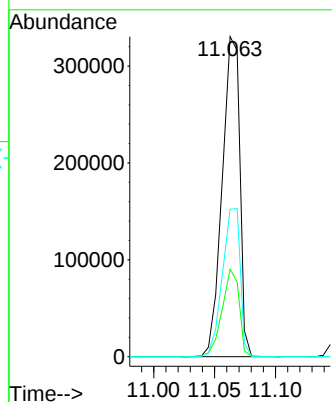
215 46.1 27.5 67.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#70

Pentachlorophenol

Concen: 104.319 ng

RT: 11.157 min Scan# 1542

Delta R.T. 0.006 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

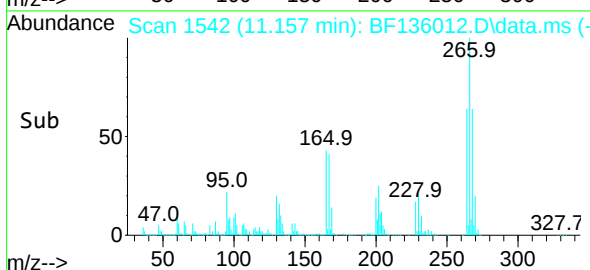
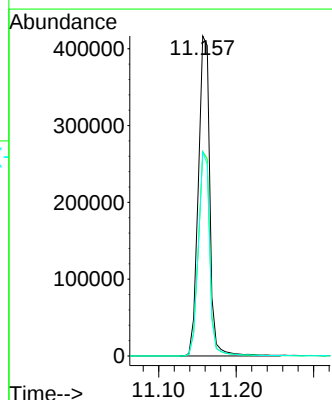
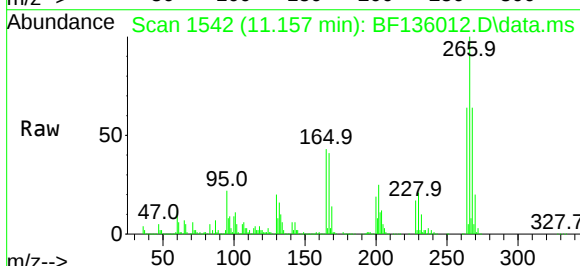
Tgt Ion:266 Resp: 428433

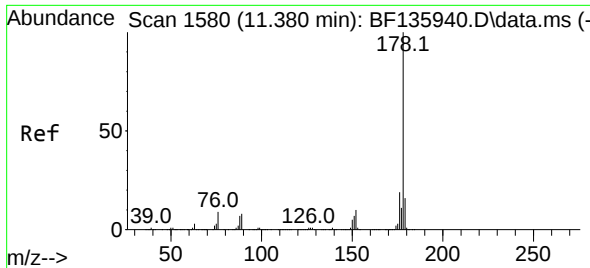
Ion Ratio Lower Upper

266 100

268 63.8 50.8 76.2

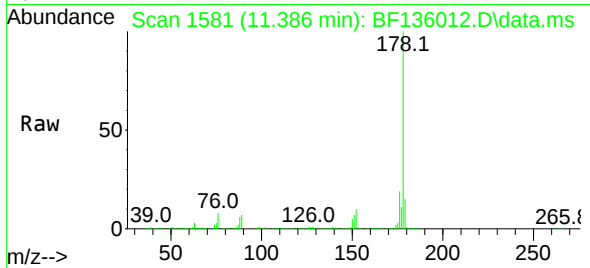
264 63.6 49.8 74.6





#71  
Phenanthrene  
Concen: 53.201 ng  
RT: 11.386 min Scan# 1580  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

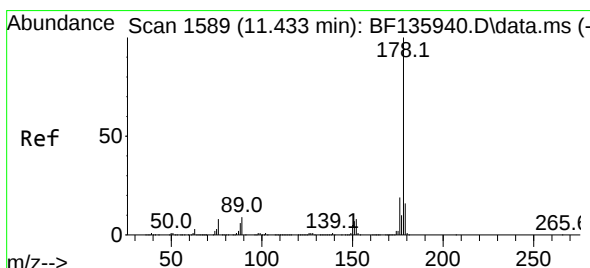
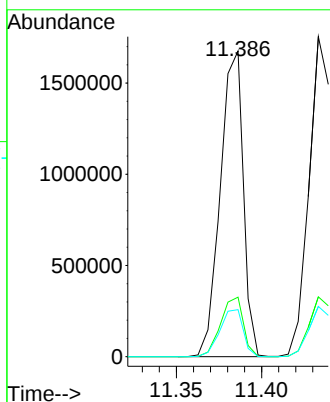
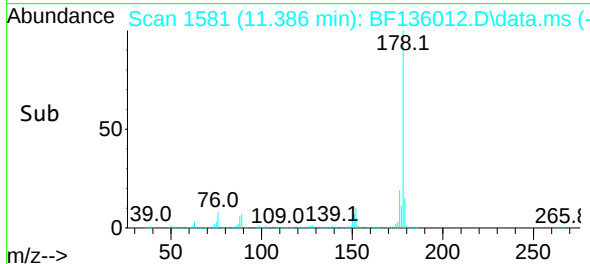
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



Tgt Ion:178 Resp: 1573238  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.4 23.2  
179 15.4 12.5 18.7

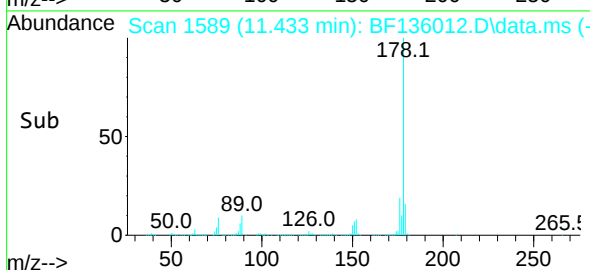
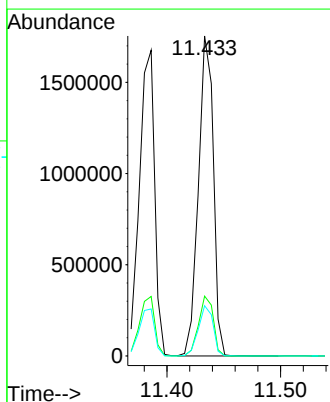
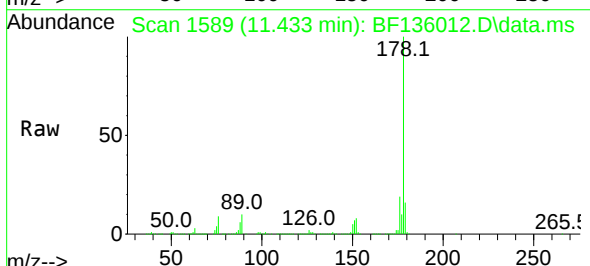
Manual Integrations  
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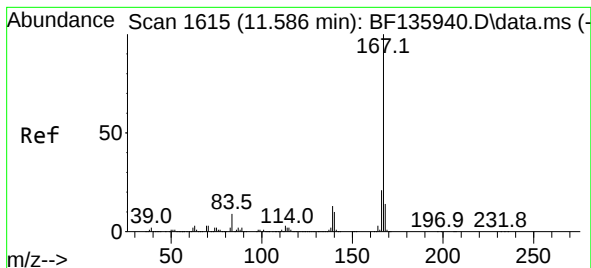
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#72  
Anthracene  
Concen: 53.000 ng  
RT: 11.433 min Scan# 1589  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

Tgt Ion:178 Resp: 1604784  
Ion Ratio Lower Upper  
178 100  
176 18.7 14.9 22.3  
179 15.7 12.5 18.7





#73

Carbazole

Concen: 52.887 ng

RT: 11.592 min Scan# 1615

Delta R.T. 0.006 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

Instrument :

BNA\_F

ClientSampleId :

SU-622-VOC-04MSD

Tgt Ion:167 Resp: 1428504

Ion Ratio Lower Upper

167 100

166 22.2 17.0 25.6

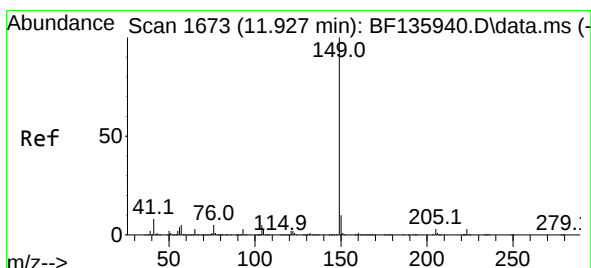
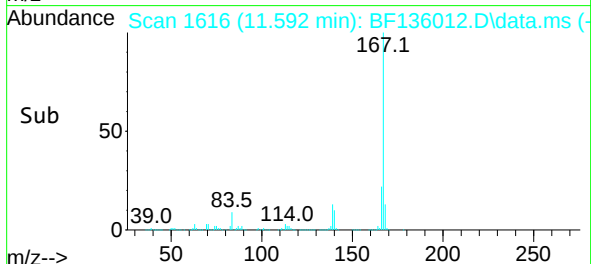
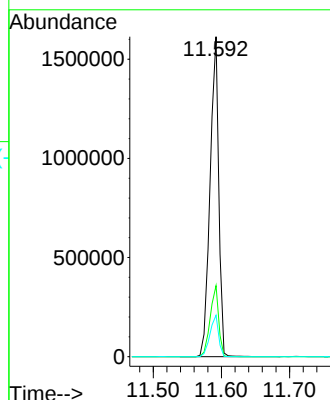
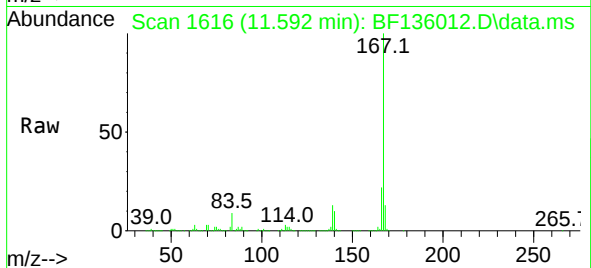
139 13.0 10.4 15.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#74

Di-n-butylphthalate

Concen: 58.092 ng

RT: 11.933 min Scan# 1674

Delta R.T. 0.006 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

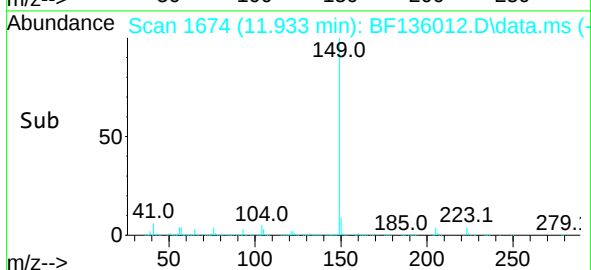
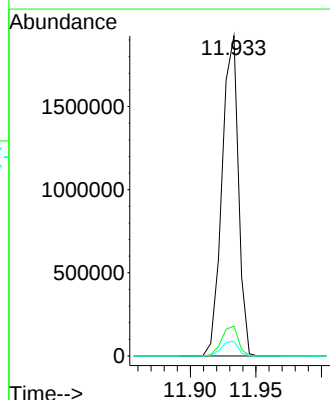
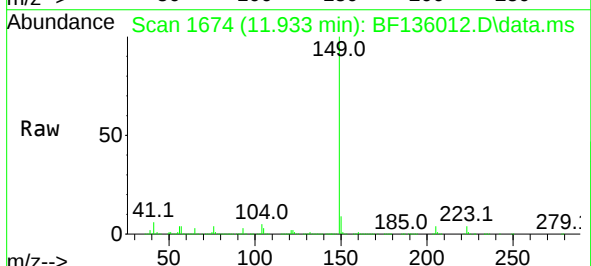
Tgt Ion:149 Resp: 1669686

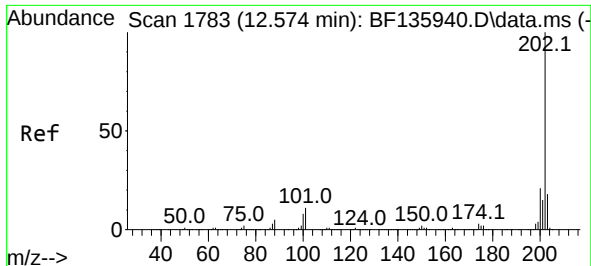
Ion Ratio Lower Upper

149 100

150 9.3 7.7 11.5

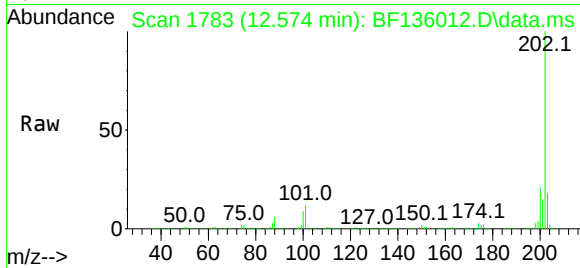
104 4.6 3.9 5.9





#75  
Fluoranthene  
Concen: 50.821 ng  
RT: 12.574 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

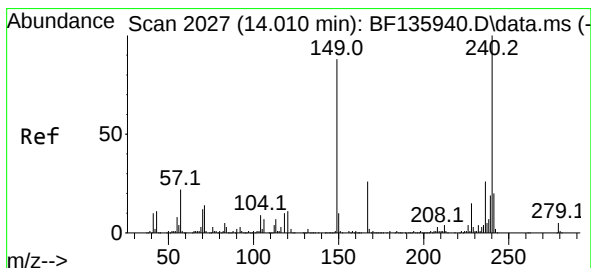
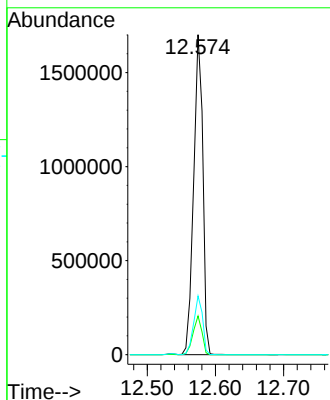
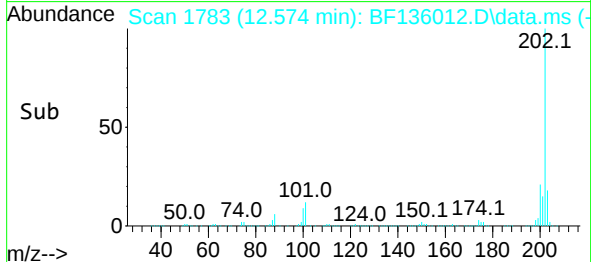
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



Tgt Ion:202 Resp: 158107  
Ion Ratio Lower Upper  
202 100  
101 12.1 0.0 30.6  
203 18.3 0.0 37.5

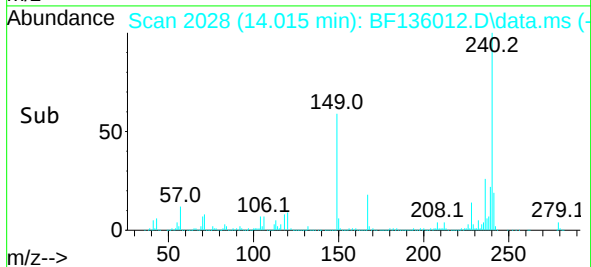
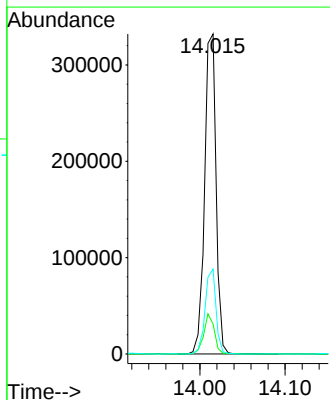
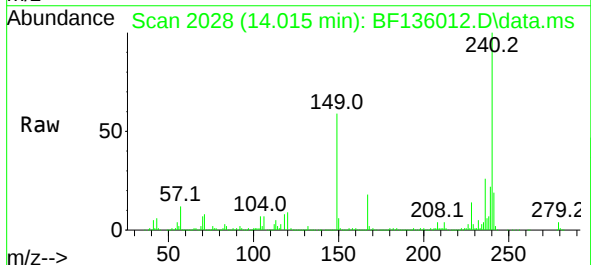
Manual Integrations  
APPROVED

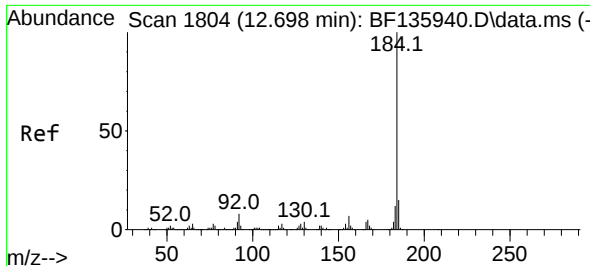
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.015 min Scan# 2028  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

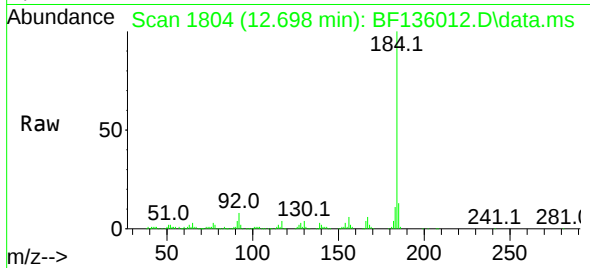
Tgt Ion:240 Resp: 309865  
Ion Ratio Lower Upper  
240 100  
120 9.3 8.6 13.0  
236 26.5 20.6 30.8





#77  
Benzidine  
Concen: 17.911 ng  
RT: 12.698 min Scan# 1804  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

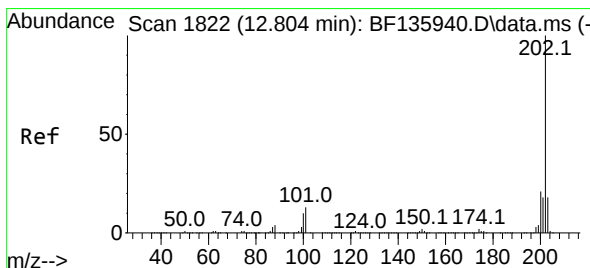
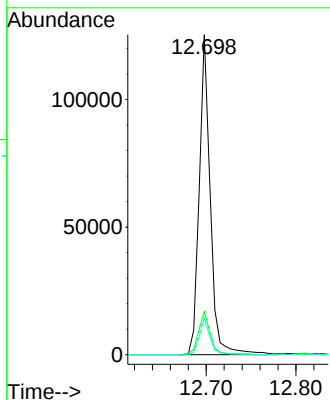
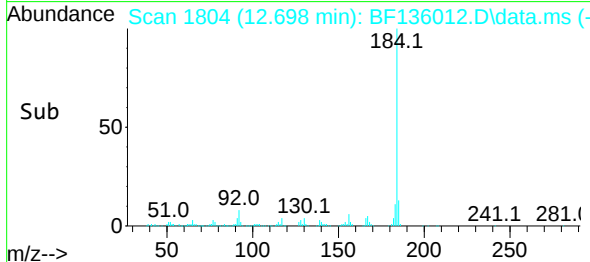
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



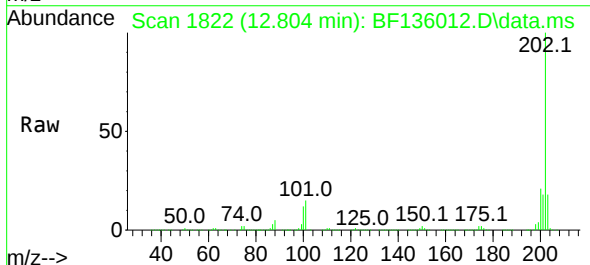
Tgt Ion:184 Resp: 107017  
Ion Ratio Lower Upper  
184 100  
185 13.5 11.7 17.5  
183 11.3 9.2 13.8

Manual Integrations  
APPROVED

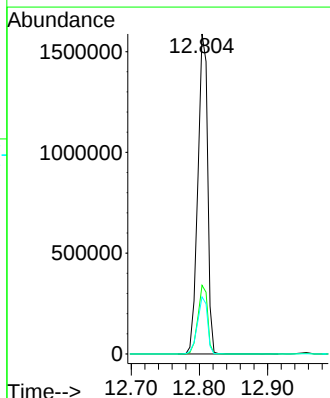
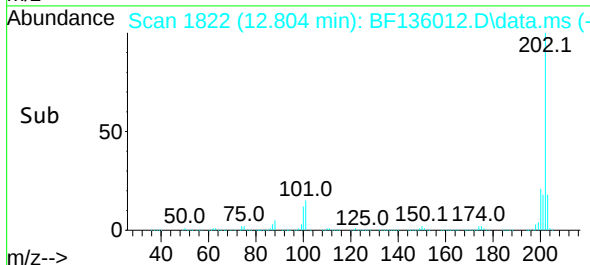
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

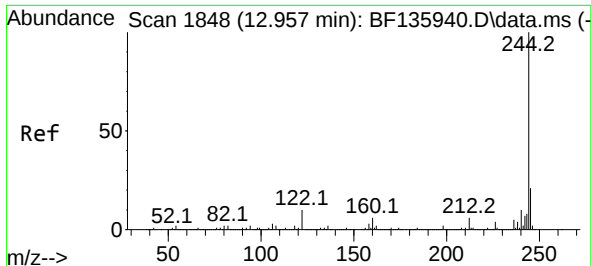


#78  
Pyrene  
Concen: 60.749 ng  
RT: 12.804 min Scan# 1822  
Delta R.T. -0.000 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



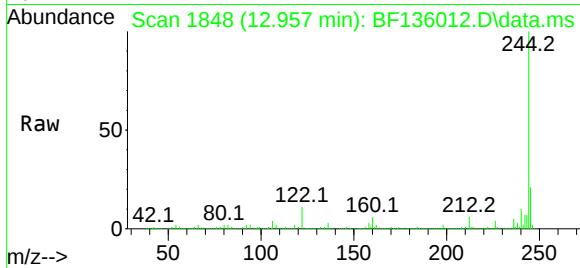
Tgt Ion:202 Resp: 1580539  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.0 25.6  
203 17.9 14.5 21.7





#79  
 Terphenyl-d14  
 Concen: 115.847 ng  
 RT: 12.957 min Scan# 1848  
 Delta R.T. -0.000 min  
 Lab File: BF136012.D  
 Acq: 28 Oct 2023 18:42

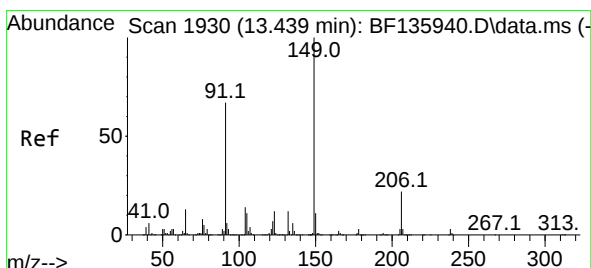
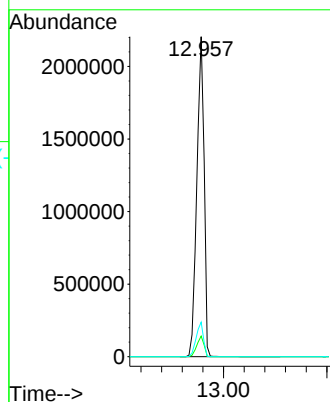
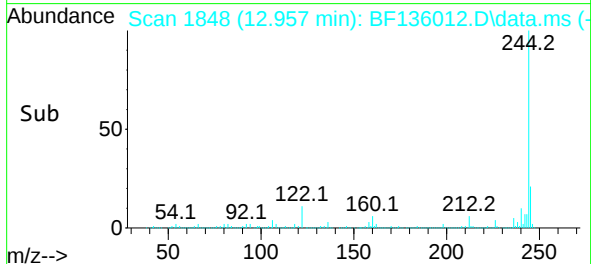
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SU-622-VOC-04MSD



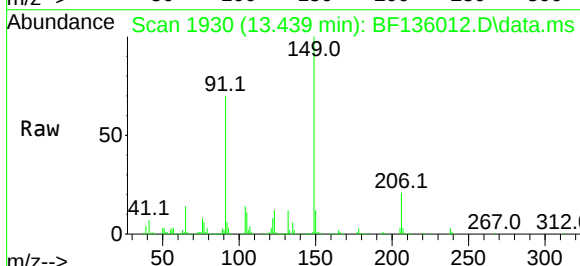
Tgt Ion:244 Resp: 214851  
 Ion Ratio Lower Upper  
 244 100  
 212 6.5 5.0 7.6  
 122 10.8 8.0 12.0

Manual Integrations  
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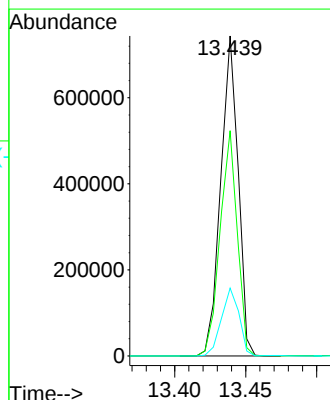
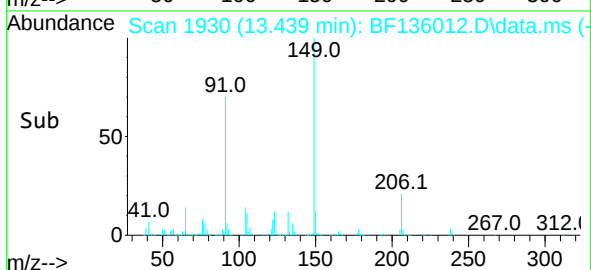
Reviewed By :Yogesh Patel 10/31/2023  
 Supervised By :mohammad ahmed 10/31/2023

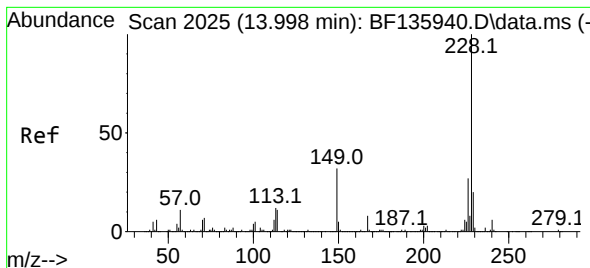


#80  
 Butylbenzylphthalate  
 Concen: 63.002 ng  
 RT: 13.439 min Scan# 1930  
 Delta R.T. -0.000 min  
 Lab File: BF136012.D  
 Acq: 28 Oct 2023 18:42



Tgt Ion:149 Resp: 632259  
 Ion Ratio Lower Upper  
 149 100  
 91 70.4 53.4 80.0  
 206 21.2 17.5 26.3





#81

Benzo(a)anthracene

Concen: 54.466 ng

RT: 13.998 min Scan# 2020

Delta R.T. -0.000 min

Lab File: BF136012.D

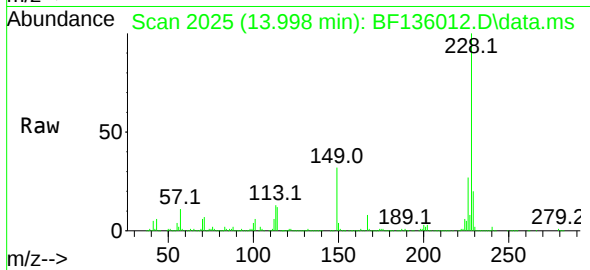
Acq: 28 Oct 2023 18:42

Instrument :

BNA\_F

ClientSampleId :

SU-622-VOC-04MSD



Tgt Ion:228 Resp: 1147540

Ion Ratio Lower Upper

228 100

226 26.7 21.8 32.6

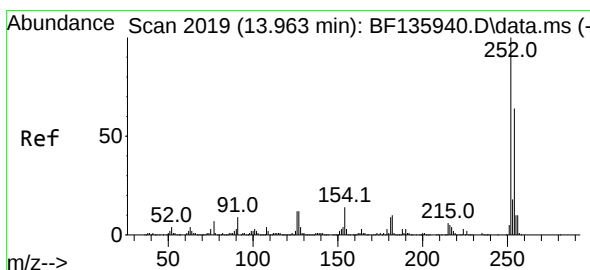
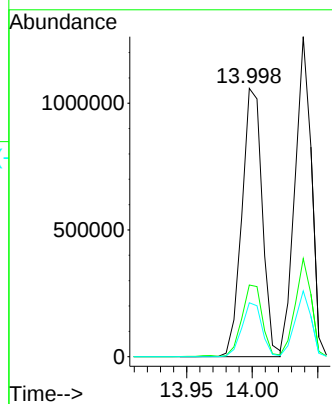
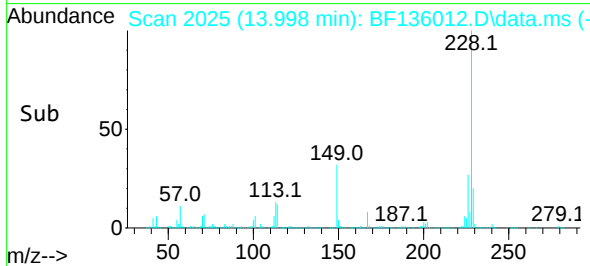
229 20.1 16.2 24.4

Manual Integrations

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Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#82

3,3'-Dichlorobenzidine

Concen: 32.138 ng

RT: 13.968 min Scan# 2020

Delta R.T. 0.006 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

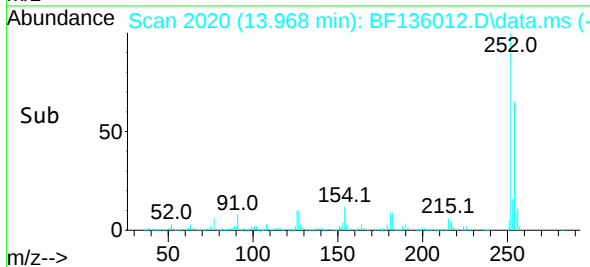
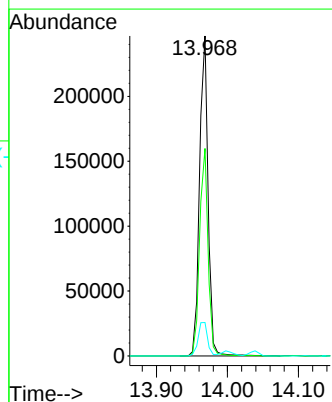
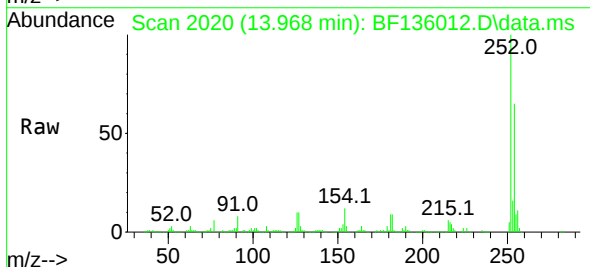
Tgt Ion:252 Resp: 206001

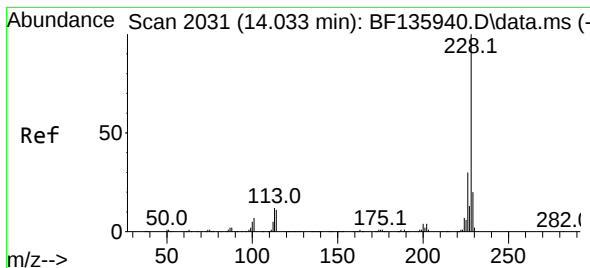
Ion Ratio Lower Upper

252 100

254 64.9 50.9 76.3

126 10.4 9.8 14.6





#83

Chrysene

Concen: 53.679 ng

RT: 14.039 min Scan# 2031

Delta R.T. 0.006 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

Instrument :

BNA\_F

ClientSampleId :

SU-622-VOC-04MSD

Tgt Ion:228 Resp: 1101500

Ion Ratio Lower Upper

228 100

226 30.6 23.9 35.9

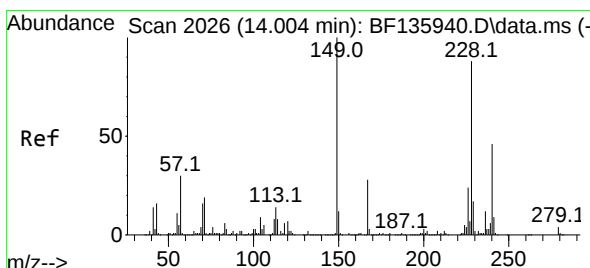
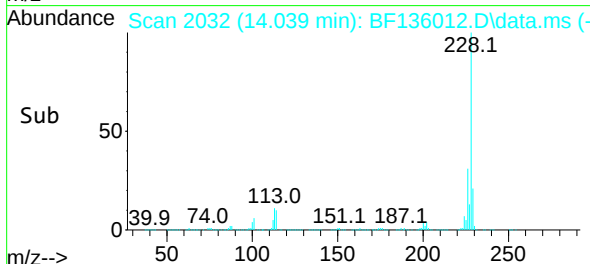
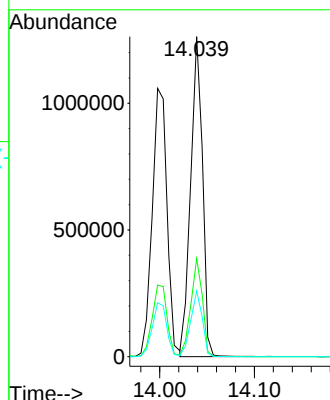
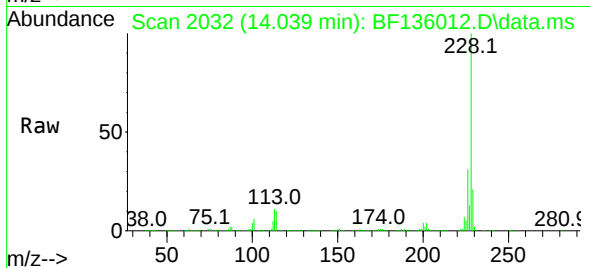
229 20.6 16.2 24.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#84

Bis(2-ethylhexyl)phthalate

Concen: 72.266 ng

RT: 14.004 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

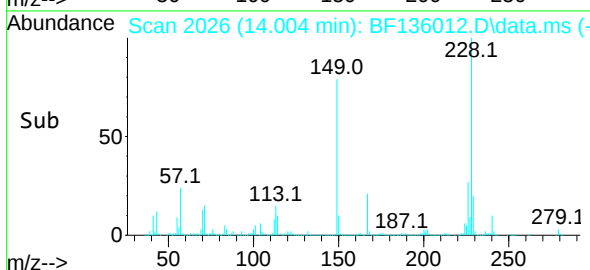
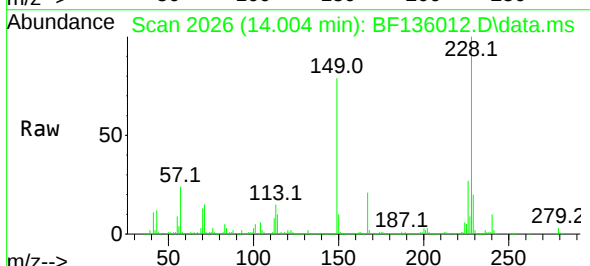
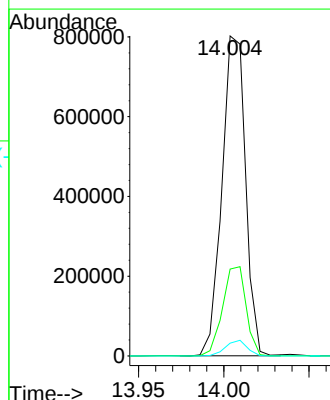
Tgt Ion:149 Resp: 773147

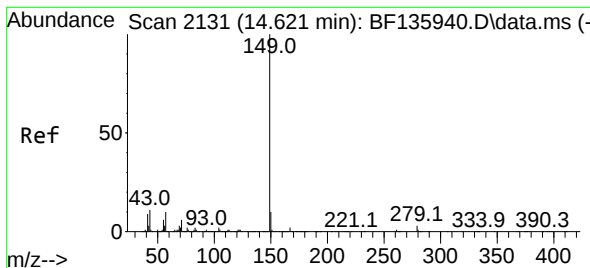
Ion Ratio Lower Upper

149 100

167 27.2 22.2 33.2

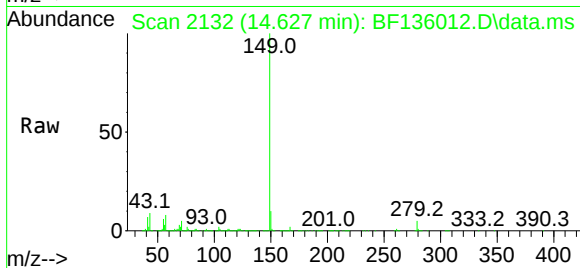
279 4.0 3.1 4.7





#85  
Di-n-octyl phthalate  
Concen: 74.995 ng  
RT: 14.627 min Scan# 2131  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

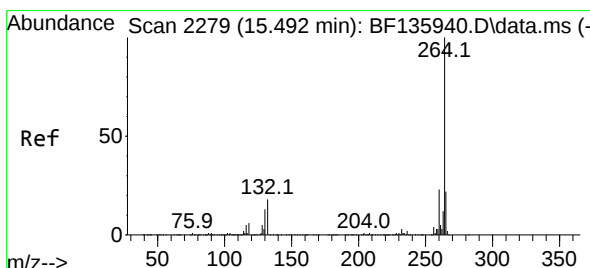
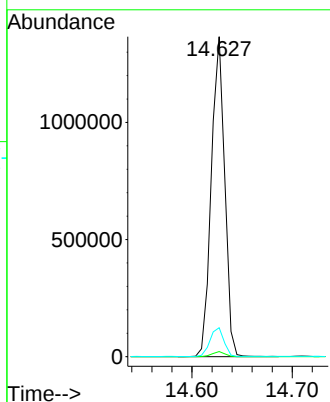
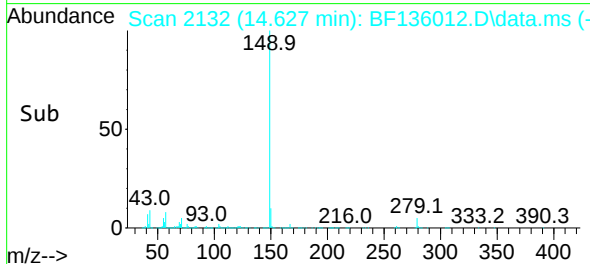
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



Tgt Ion:149 Resp: 1263928  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.3 1.9  
43 9.4 8.6 12.8

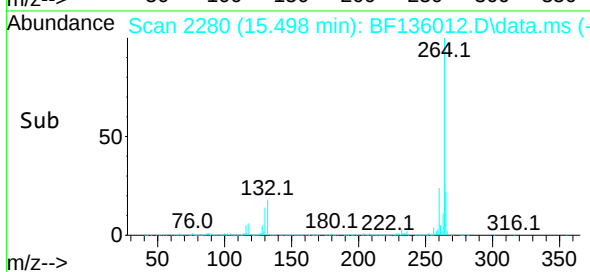
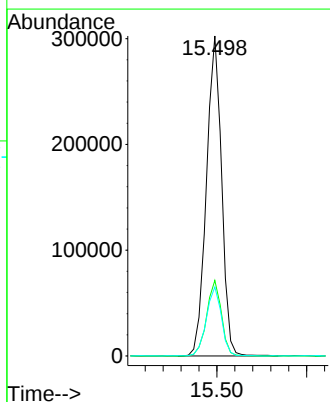
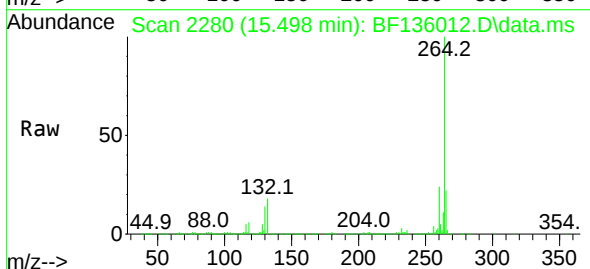
Manual Integrations  
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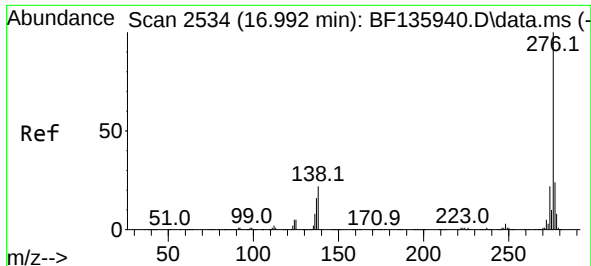
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.498 min Scan# 2280  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

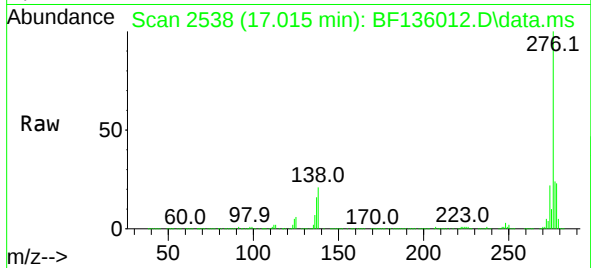
Tgt Ion:264 Resp: 354640  
Ion Ratio Lower Upper  
264 100  
260 23.6 18.6 28.0  
265 21.6 17.3 25.9





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 54.565 ng  
RT: 17.015 min Scan# 21  
Delta R.T. 0.023 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

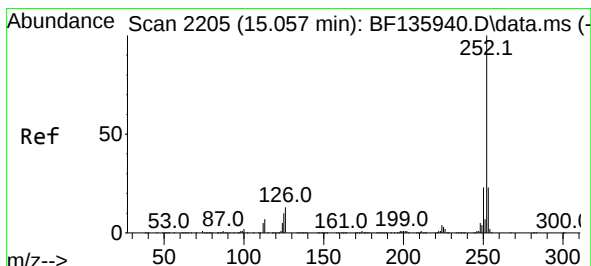
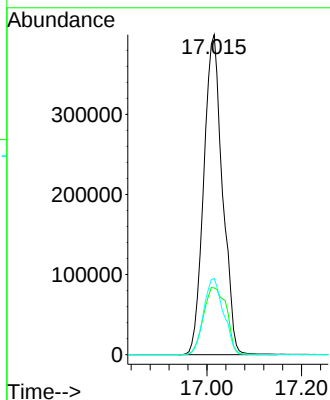
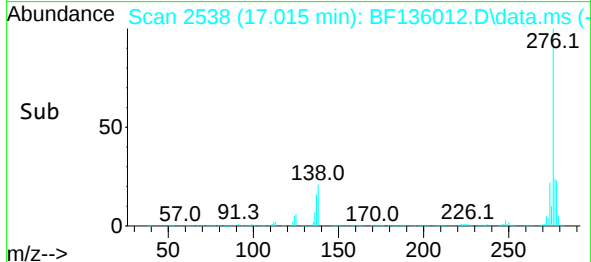
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



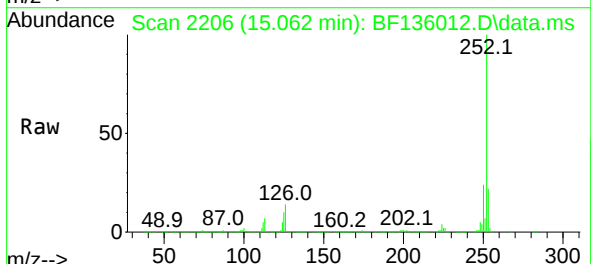
Tgt Ion:276 Resp: 109726  
Ion Ratio Lower Upper  
276 100  
138 25.8 21.8 32.6  
277 25.3 20.0 30.0

Manual Integrations  
APPROVED

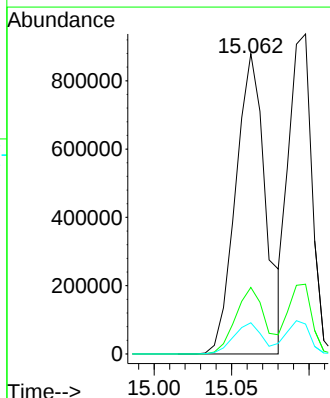
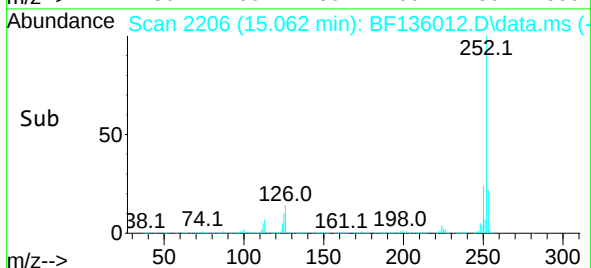
Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023

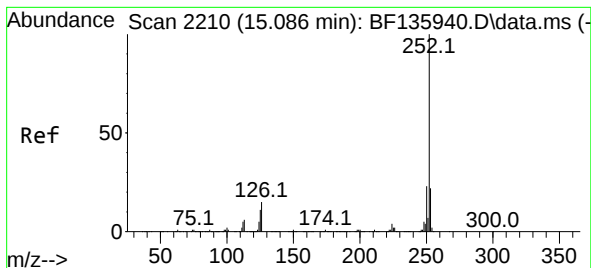


#88  
Benzo(b)fluoranthene  
Concen: 56.105 ng  
RT: 15.062 min Scan# 2206  
Delta R.T. 0.006 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



Tgt Ion:252 Resp: 1184116  
Ion Ratio Lower Upper  
252 100  
253 22.2 18.0 27.0  
125 10.4 8.2 12.4





#89

Benzo(k)fluoranthene

Concen: 47.375 ng

RT: 15.098 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

Instrument :

BNA\_F

ClientSampleId :

SU-622-VOC-04MSD

Tgt Ion:252 Resp: 98200

Ion Ratio Lower Upper

252 100

253 21.8 17.7 26.5

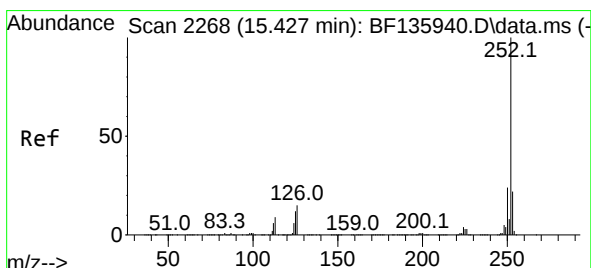
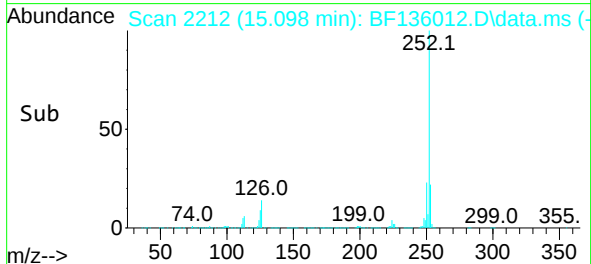
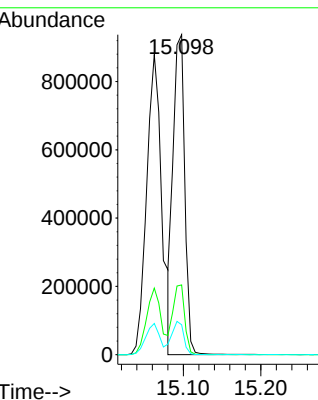
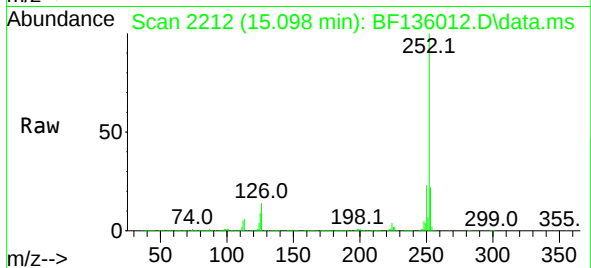
125 9.4 8.5 12.7

Manual Integrations

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Reviewed By :Yogesh Patel 10/31/2023

Supervised By :mohammad ahmed 10/31/2023



#90

Benzo(a)pyrene

Concen: 50.861 ng

RT: 15.439 min Scan# 2270

Delta R.T. 0.012 min

Lab File: BF136012.D

Acq: 28 Oct 2023 18:42

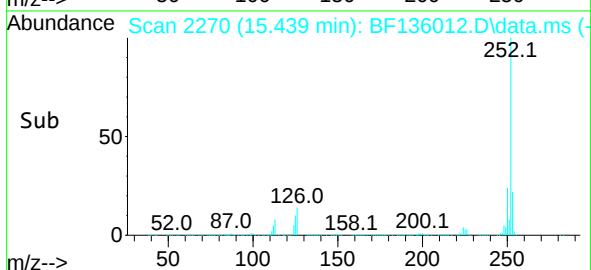
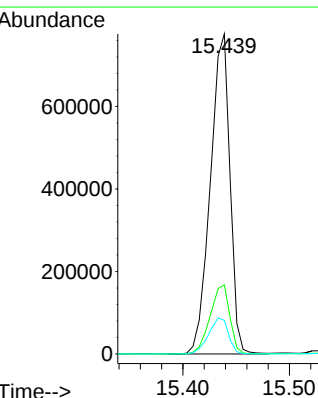
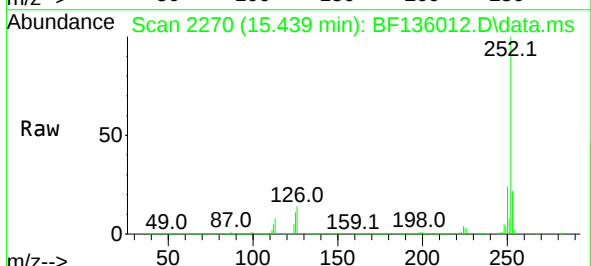
Tgt Ion:252 Resp: 989332

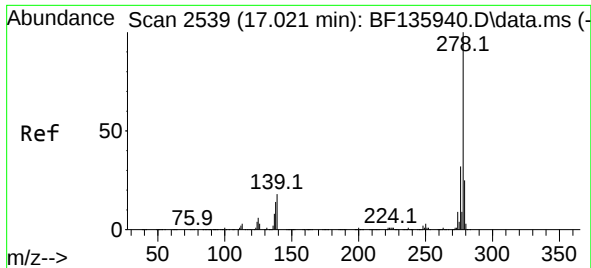
Ion Ratio Lower Upper

252 100

253 21.6 17.4 26.2

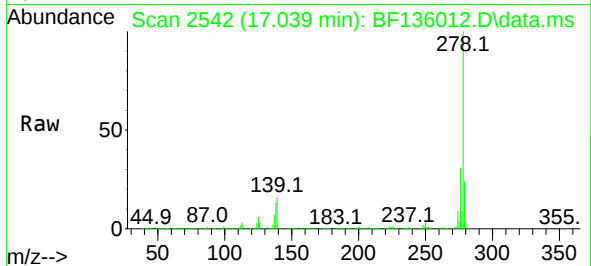
125 10.5 9.6 14.4





#91  
Dibenzo(a,h)anthracene  
Concen: 53.654 ng  
RT: 17.039 min Scan# 2539  
Delta R.T. 0.018 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42

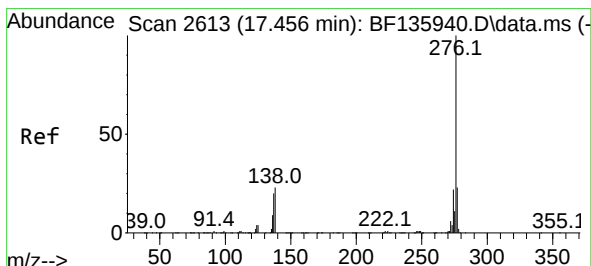
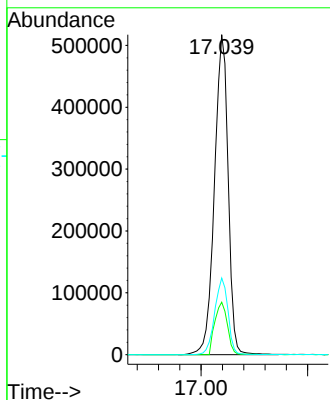
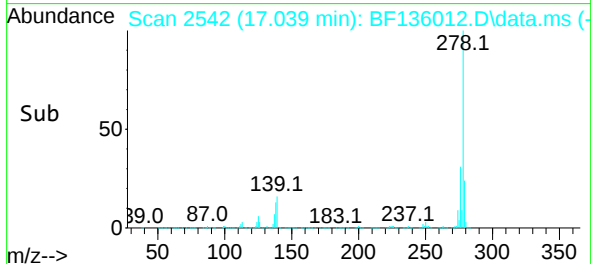
Instrument :  
BNA\_F  
ClientSampleId :  
SU-622-VOC-04MSD



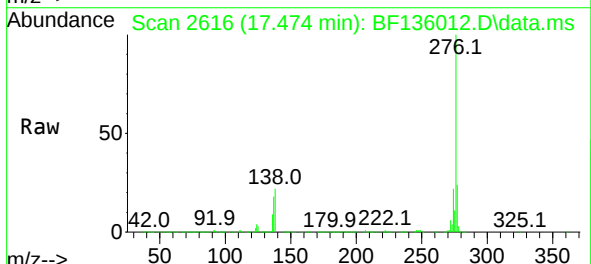
Tgt Ion:278 Resp: 922880  
Ion Ratio Lower Upper  
278 100  
139 16.4 14.0 21.0  
279 23.9 19.7 29.5

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/31/2023  
Supervised By :mohammad ahmed 10/31/2023



#92  
Benzo(g,h,i)perylene  
Concen: 43.212 ng  
RT: 17.474 min Scan# 2616  
Delta R.T. 0.018 min  
Lab File: BF136012.D  
Acq: 28 Oct 2023 18:42



Tgt Ion:276 Resp: 837130  
Ion Ratio Lower Upper  
276 100  
277 24.2 18.6 28.0  
138 22.1 18.4 27.6

