

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX010723\  
 Data File : VX033647.D  
 Acq On : 06 Jan 2023 22:41  
 Operator : JC/MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTDICC005

Quant Time: Jan 07 05:50:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X010723W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jan 07 05:49:19 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 01/09/2023  
 Supervised By : Mahesh Dadoda 01/09/2023

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Bromochloromethane        | 4.903  | 128   | 15339    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 6.763  | 114   | 105579   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 10.055 | 117   | 117494   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 5.958  | 65    | 40288    | 30.059   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =      | 100.200% |
| 60) 4-Bromofluorobenzene     | 11.079 | 95    | 63557    | 29.380   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =      | 97.933%  |
| 63) Toluene-d8               | 8.647  | 98    | 113546   | 29.289   | ug/l   | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =      | 97.633%  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.166  | 85    | 8440     | 6.902    | ug/l   | 94       |
| 3) Chloromethane             | 1.294  | 50    | 8165     | 6.430    | ug/l   | 97       |
| 4) Vinyl Chloride            | 1.374  | 62    | 6726     | 4.850    | ug/l   | 98       |
| 5) Bromomethane              | 1.617  | 94    | 4616     | 4.756    | ug/l   | 93       |
| 6) Chloroethane              | 1.691  | 64    | 4946     | 5.097    | ug/l   | 95       |
| 7) Trichlorofluoromethane    | 1.892  | 101   | 13792    | 5.116    | ug/l   | 96       |
| 8) Diethyl Ether             | 2.136  | 74    | 4132     | 5.058    | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 2.331  | 101   | 6586     | 4.949    | ug/l   | 96       |
| 10) 1,1-Dichloroethene       | 2.319  | 96    | 5715     | 4.549    | ug/l   | 95       |
| 11) Methyl Iodide            | 2.453  | 142   | 11963    | 7.707    | ug/l   | 98       |
| 12) Methyl Acetate           | 2.709  | 43    | 14095    | 7.133    | ug/l   | 100      |
| 13) Acrolein                 | 2.245  | 56    | 6997     | 25.236   | ug/l   | 97       |
| 14) Acrylonitrile            | 3.075  | 53    | 22800    | 32.110   | ug/l   | 99       |
| 15) Acetone                  | 2.410  | 58    | 5672     | 26.741   | ug/l   | 87       |
| 16) Carbon Disulfide         | 2.514  | 76    | 20767    | 6.044    | ug/l   | 99       |
| 17) Allyl chloride           | 2.666  | 41    | 13759    | 6.150    | ug/l   | 93       |
| 18) Methylene Chloride       | 2.788  | 84    | 10371    | 6.683    | ug/l   | 94       |
| 19) trans-1,2-Dichloroethene | 3.093  | 96    | 8984     | 5.773    | ug/l   | 88       |
| 20) Diisopropyl ether        | 3.757  | 45    | 28861    | 6.045    | ug/l # | 69       |
| 21) 1,1-Dichloroethane       | 3.611  | 63    | 16286    | 5.907    | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 4.495  | 96    | 10128    | 5.586    | ug/l   | 97       |
| 23) tert-Butyl Alcohol       | 3.032  | 59    | 9143m    | 30.743   | ug/l   |          |
| 24) Methyl tert-Butyl Ether  | 3.117  | 73    | 27220    | 5.590    | ug/l   | 100      |
| 25) Chloroform               | 5.099  | 83    | 16552    | 5.399    | ug/l   | 95       |
| 26) Cyclohexane              | 5.477  | 56    | 14996    | 6.130    | ug/l # | 96       |
| 29) 1,1-Dichloropropene      | 5.702  | 75    | 11875    | 5.513    | ug/l   | 99       |
| 30) 2-Butanone               | 4.574  | 43    | 31782    | 31.122   | ug/l # | 98       |
| 31) 2,2-Dichloropropane      | 4.477  | 77    | 9599     | 4.423    | ug/l   | 99       |
| 32) 1,1,1-Trichloroethane    | 5.385  | 97    | 13797    | 5.093    | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 5.684  | 117   | 12476    | 5.053    | ug/l   | 99       |
| 34) Benzene                  | 6.037  | 78    | 35140    | 5.695    | ug/l   | 97       |
| 35) Methacrylonitrile        | 4.928  | 41    | 7165     | 6.577    | ug/l   | 96       |
| 36) 1,2-Dichloroethane       | 6.086  | 62    | 13189    | 5.631    | ug/l   | 99       |
| 37) Trichloroethene          | 7.129  | 130   | 10014    | 5.712    | ug/l   | 99       |
| 38) Methylcyclohexane        | 7.379  | 83    | 14444    | 5.625    | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 7.433  | 63    | 8587     | 5.528    | ug/l   | 98       |
| 40) Dibromomethane           | 7.580  | 93    | 6179     | 5.290    | ug/l   | 96       |
| 41) Bromodichloromethane     | 7.824  | 83    | 11597    | 4.929    | ug/l   | 90       |
| 42) Vinyl Acetate            | 3.721  | 43    | 108675   | 30.145   | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX010723\  
 Data File : VX033647.D  
 Acq On : 06 Jan 2023 22:41  
 Operator : JC/MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 32 Sample Multiplier: 1

## Instrument :

MSVOA\_X

## ClientSampleId :

VSTDICC005

## Manual Integrations

## APPROVED

Reviewed By :John Carlone 01/09/2023

Supervised By :Mahesh Dadoda 01/09/2023

Quant Time: Jan 07 05:50:11 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X010723W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

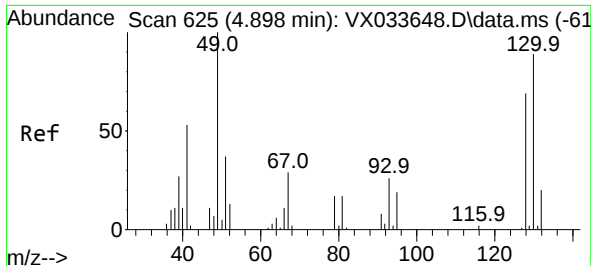
QLast Update : Sat Jan 07 05:49:19 2023

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 4.714  | 43   | 12631    | 6.518   | ug/l # | 92       |
| 44) Isopropyl Acetate         | 6.342  | 43   | 19193    | 6.062   | ug/l   | 97       |
| 45) 1,4-Dioxane               | 7.750  | 88   | 4506m    | 123.326 | ug/l   |          |
| 46) Methyl methacrylate       | 7.696  | 41   | 9702     | 6.085   | ug/l   | 92       |
| 47) n-amyl Acetate            | 10.841 | 43   | 15650    | 5.848   | ug/l   | 99       |
| 48) t-1,3-Dichloropropene     | 8.982  | 75   | 10471    | 4.441   | ug/l   | 93       |
| 49) cis-1,3-Dichloropropene   | 8.366  | 75   | 12396    | 4.854   | ug/l   | 97       |
| 50) 1,1,2-Trichloroethane     | 9.153  | 97   | 9249     | 5.707   | ug/l   | 95       |
| 51) Ethyl methacrylate        | 9.116  | 69   | 12257    | 5.222   | ug/l   | 97       |
| 52) 1,3-Dichloropropane       | 9.311  | 76   | 15254    | 5.716   | ug/l   | 100      |
| 53) Dibromochloromethane      | 9.518  | 129  | 9084     | 4.788   | ug/l   | 97       |
| 54) 1,2-Dibromoethane         | 9.610  | 107  | 9573     | 5.425   | ug/l   | 100      |
| 55) 2-Chloroethyl vinyl ether | 8.244  | 63   | 30119    | 26.902  | ug/l   | 99       |
| 56) Bromoform                 | 10.799 | 173  | 6417     | 4.617   | ug/l   | 99       |
| 58) 4-Methyl-2-Pentanone      | 8.574  | 43   | 61185    | 30.867  | ug/l   | 99       |
| 59) 2-Hexanone                | 9.433  | 43   | 45719    | 30.758  | ug/l   | 96       |
| 61) Tetrachloroethene         | 9.275  | 164  | 8937     | 5.665   | ug/l   | 96       |
| 62) Toluene                   | 8.720  | 91   | 39611    | 5.554   | ug/l   | 96       |
| 64) Chlorobenzene             | 10.079 | 112  | 25122    | 5.552   | ug/l   | 97       |
| 65) 1,1,1,2-Tetrachloroethane | 10.165 | 131  | 8844     | 5.008   | ug/l   | 97       |
| 66) Ethyl Benzene             | 10.195 | 91   | 42124    | 5.254   | ug/l   | 100      |
| 67) m/p-Xylenes               | 10.299 | 106  | 33109    | 10.507  | ug/l   | 97       |
| 68) o-Xylene                  | 10.640 | 106  | 16487    | 5.371   | ug/l   | 98       |
| 69) Styrene                   | 10.652 | 104  | 26893    | 5.282   | ug/l   | 99       |
| 70) Isopropylbenzene          | 10.963 | 105  | 42553    | 5.254   | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 13256    | 5.501   | ug/l   | 98       |
| 72) 1,2,3-Trichloropropane    | 11.238 | 75   | 11804m   | 5.520   | ug/l   |          |
| 73) Bromobenzene              | 11.201 | 156  | 11153    | 5.488   | ug/l   | 99       |
| 74) n-propylbenzene           | 11.305 | 91   | 47551    | 5.131   | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 11.366 | 91   | 29765    | 5.350   | ug/l   | 97       |
| 76) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 35810    | 5.272   | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene   | 11.018 | 75   | 2733     | 3.964   | ug/l   | 86       |
| 78) 4-Chlorotoluene           | 11.451 | 91   | 32557    | 5.138   | ug/l   | 99       |
| 79) tert-butylbenzene         | 11.713 | 119  | 36178    | 5.340   | ug/l   | 99       |
| 80) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 34745    | 5.206   | ug/l   | 99       |
| 81) sec-Butylbenzene          | 11.890 | 105  | 42848    | 5.258   | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 12.012 | 119  | 36162    | 5.190   | ug/l   | 98       |
| 83) 1,3-Dichlorobenzene       | 11.969 | 146  | 20480    | 5.511   | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 12.042 | 146  | 20542    | 5.488   | ug/l   | 99       |
| 85) n-Butylbenzene            | 12.335 | 91   | 28604    | 4.935   | ug/l   | 100      |
| 86) Hexachloroethane          | 12.536 | 117  | 5583     | 4.629   | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 12.335 | 146  | 19876    | 5.458   | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 12.945 | 75   | 2470     | 4.794   | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene    | 13.591 | 180  | 12174    | 5.242   | ug/l   | 100      |
| 90) Hexachlorobutadiene       | 13.725 | 225  | 6462     | 6.436   | ug/l   | 96       |
| 91) Naphthalene               | 13.774 | 128  | 35885    | 4.872   | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 12553    | 5.416   | ug/l   | 99       |

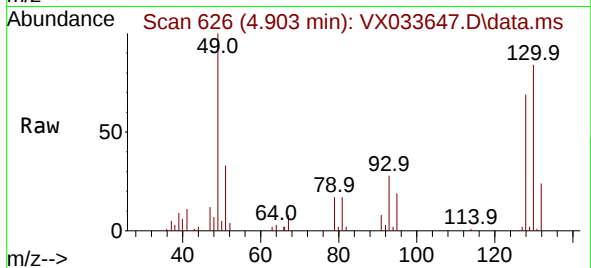
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.903 min Scan# 61  
Delta R.T. 0.005 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

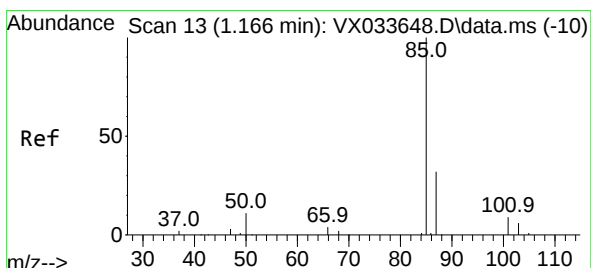
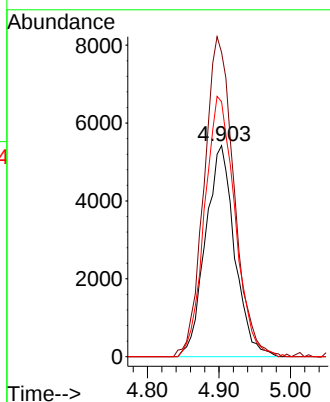
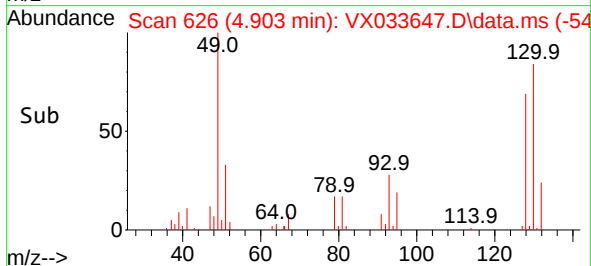
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion:128 Resp: 15339  
Ion Ratio Lower Upper  
128 100  
49 155.4 0.0 398.5  
130 128.3 0.0 329.0

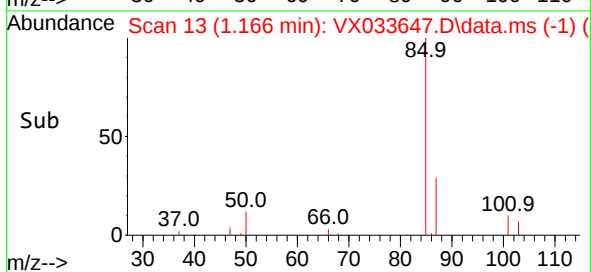
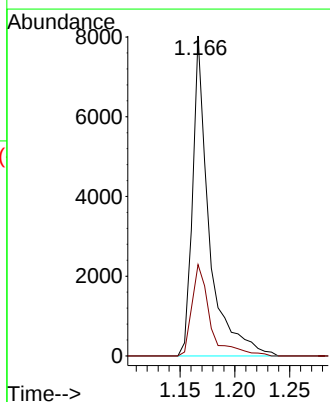
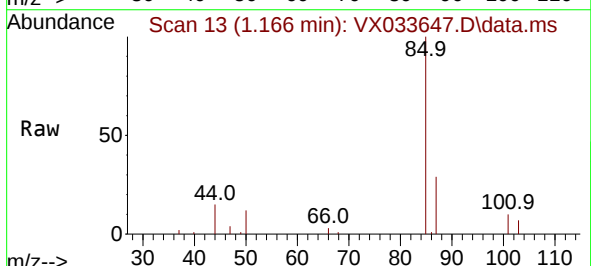
Manual Integrations  
APPROVED

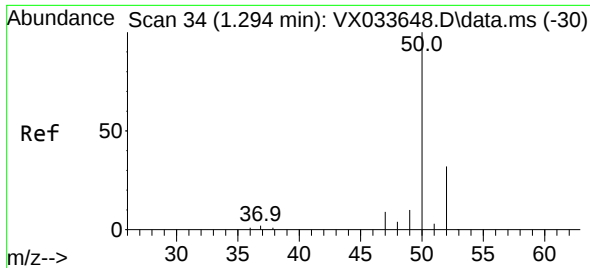
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#2  
Dichlorodifluoromethane  
Concen: 6.902 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

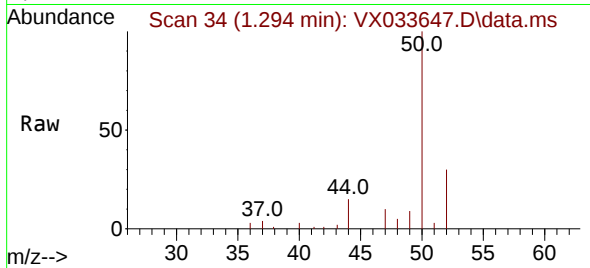
Tgt Ion: 85 Resp: 8440  
Ion Ratio Lower Upper  
85 100  
87 28.5 16.0 48.0





#3  
Chloromethane  
Concen: 6.430 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

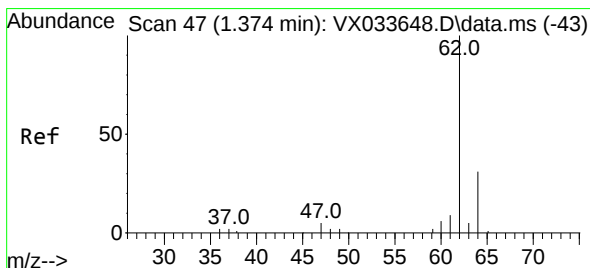
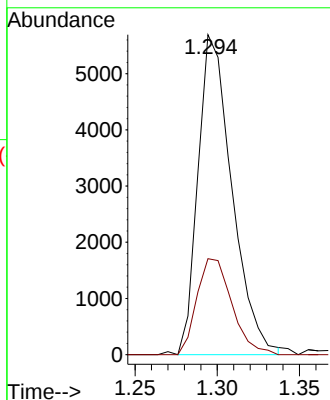
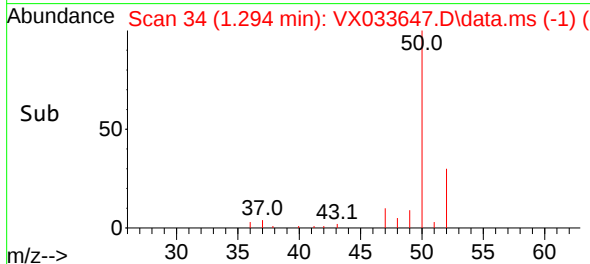
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



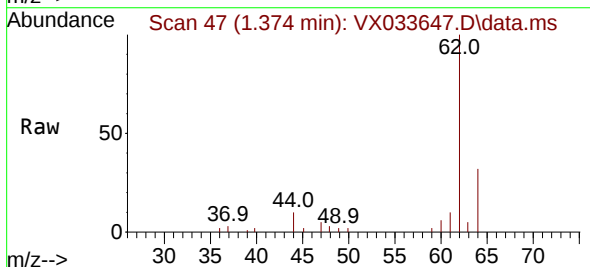
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Ion Ratio Lower Upper  
50 100  
52 30.0 25.5 38.3

Manual Integrations  
APPROVED

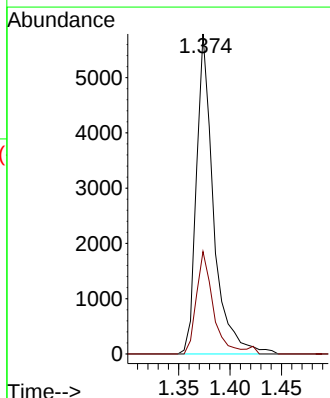
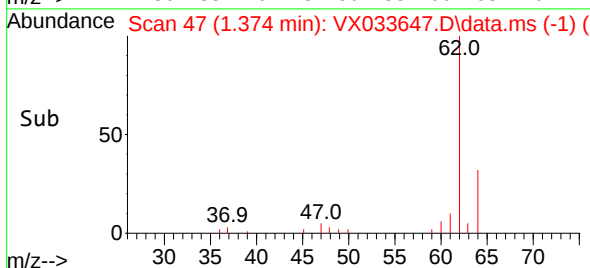
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023

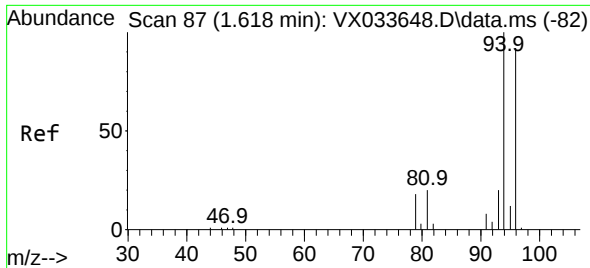


#4  
Vinyl Chloride  
Concen: 4.850 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41



Tgt Ion: 62 Resp: 6726  
Ion Ratio Lower Upper  
62 100  
64 32.0 24.9 37.3





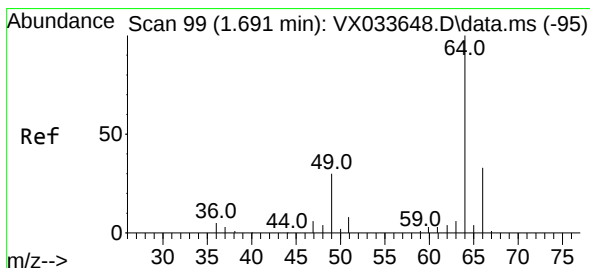
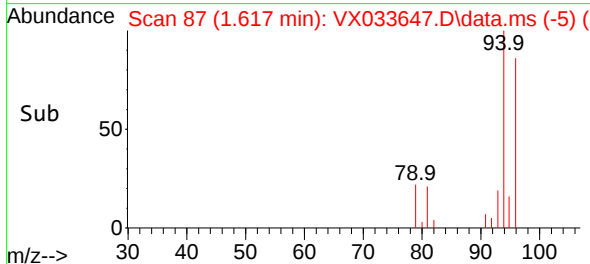
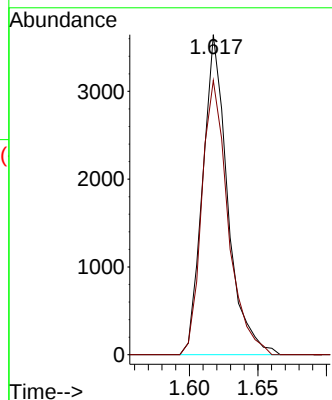
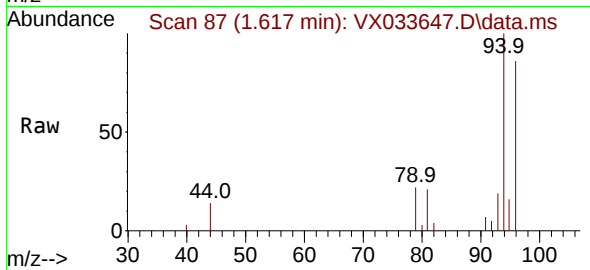
#5  
Bromomethane  
Concen: 4.756 ug/l  
RT: 1.617 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion: 94 Resp: 4610  
Ion Ratio Lower Upper  
94 100  
96 85.7 73.6 110.4

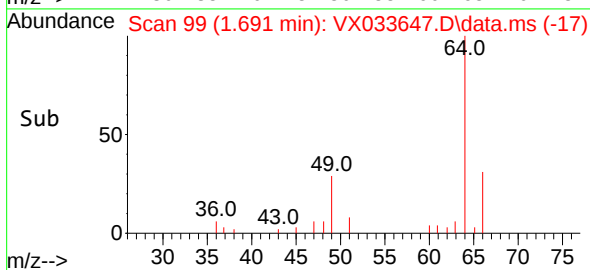
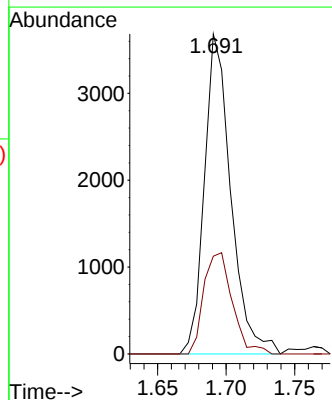
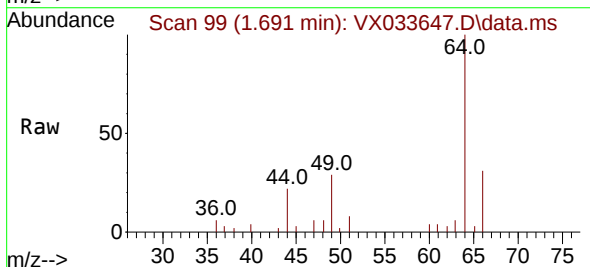
Manual Integrations  
APPROVED

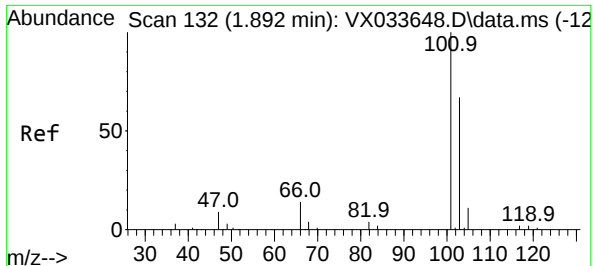
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#6  
Chloroethane  
Concen: 5.097 ug/l  
RT: 1.691 min Scan# 99  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

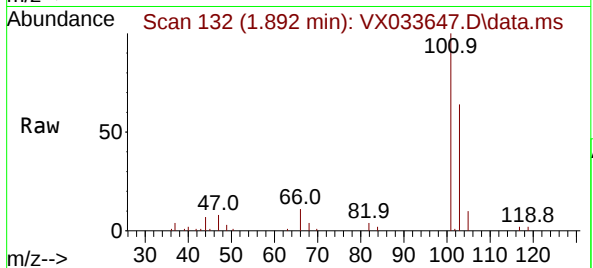
Tgt Ion: 64 Resp: 4946  
Ion Ratio Lower Upper  
64 100  
66 30.5 26.6 40.0





#7  
Trichlorofluoromethane  
Concen: 5.116 ug/l  
RT: 1.892 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

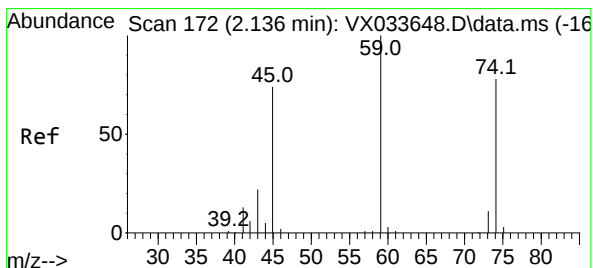
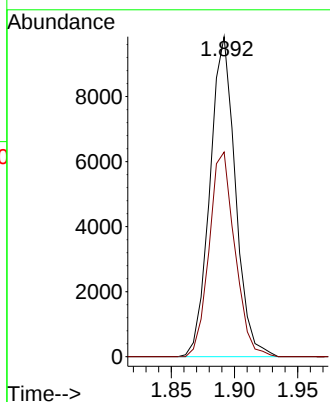
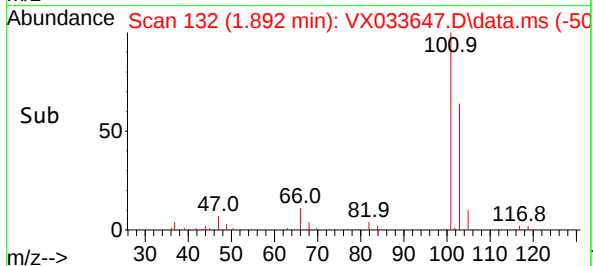
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion:101 Resp: 13792  
Ion Ratio Lower Upper  
101 100  
103 64.0 53.7 80.5

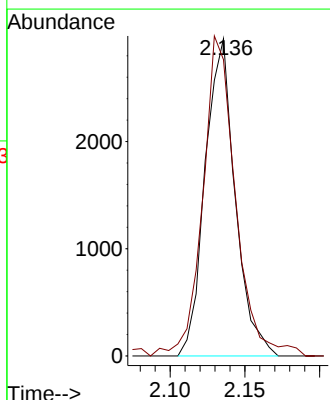
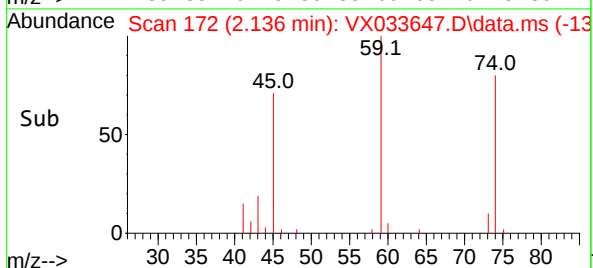
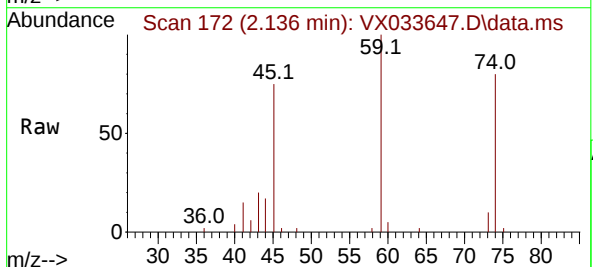
Manual Integrations  
APPROVED

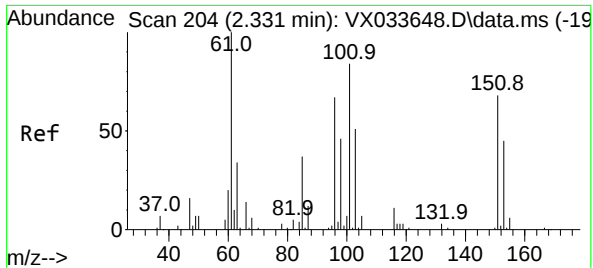
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#8  
Diethyl Ether  
Concen: 5.058 ug/l  
RT: 2.136 min Scan# 172  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion: 74 Resp: 4132  
Ion Ratio Lower Upper  
74 100  
45 108.2 20.3 182.9





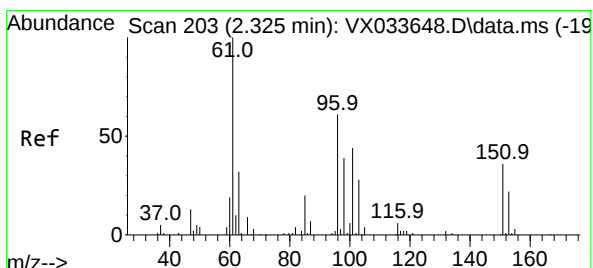
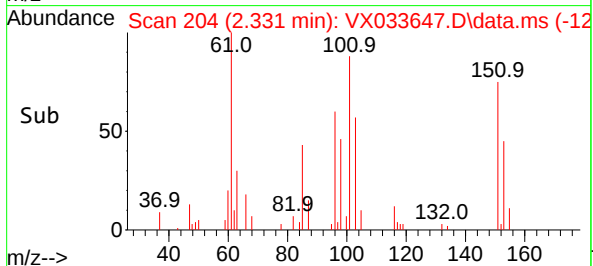
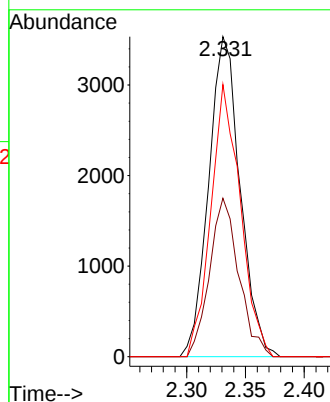
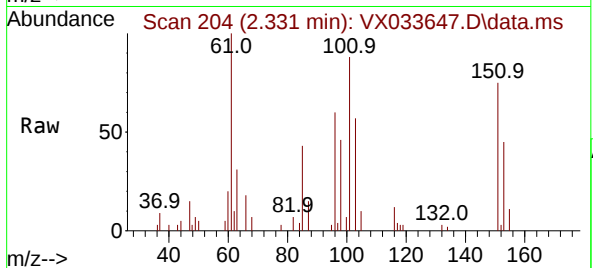
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 4.949 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Tgt Ion:101 Resp: 6580  
Ion Ratio Lower Upper  
101 100  
85 46.1 0.0 88.8  
151 79.8 0.0 167.2

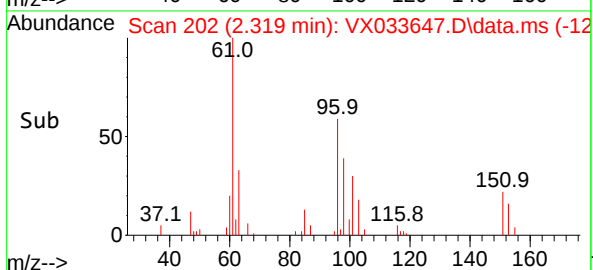
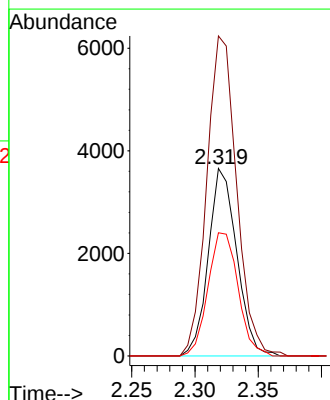
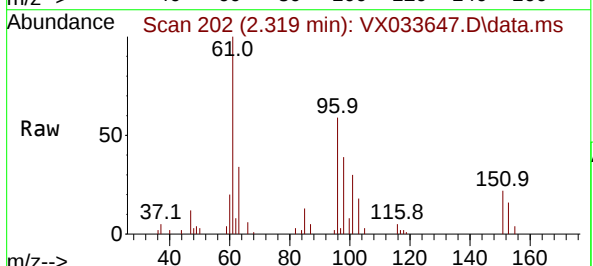
Manual Integrations  
APPROVED

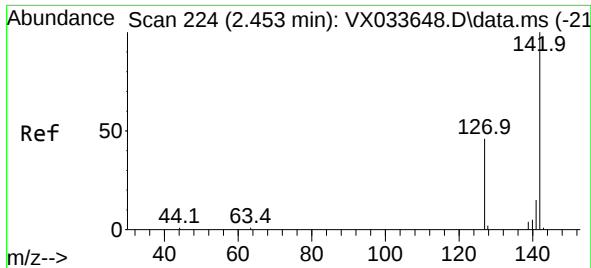
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#10  
1,1-Dichloroethene  
Concen: 4.549 ug/l  
RT: 2.319 min Scan# 202  
Delta R.T. -0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

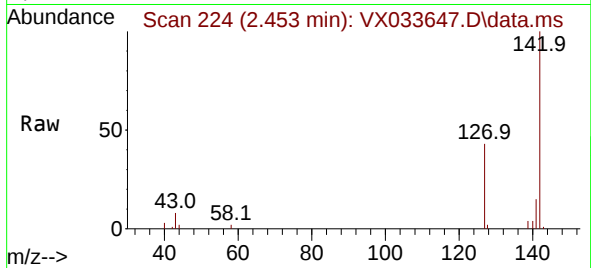
Tgt Ion: 96 Resp: 5715  
Ion Ratio Lower Upper  
96 100  
61 170.7 130.6 195.8  
98 65.8 50.8 76.2





#11  
Methyl Iodide  
Concen: 7.707 ug/l  
RT: 2.453 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

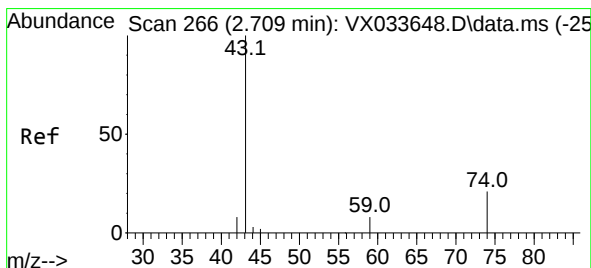
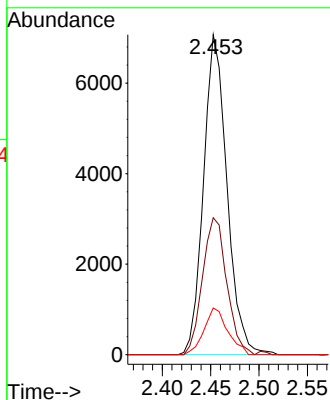
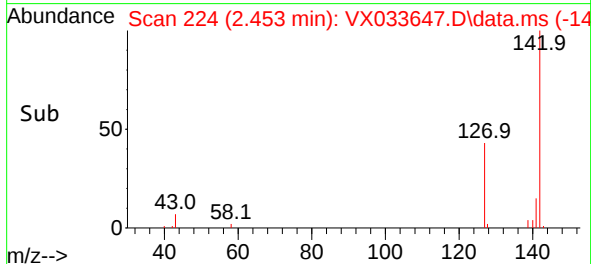
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



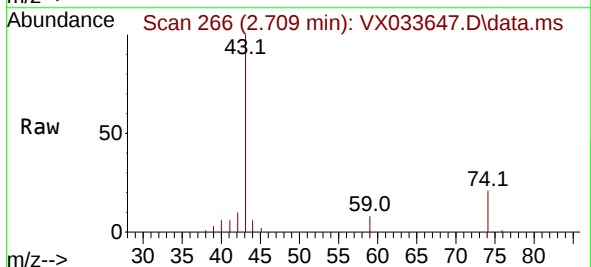
Tgt Ion:142 Resp: 1196  
Ion Ratio Lower Upper  
142 100  
127 44.4 23.2 69.5  
141 14.6 7.3 22.0

Manual Integrations  
APPROVED

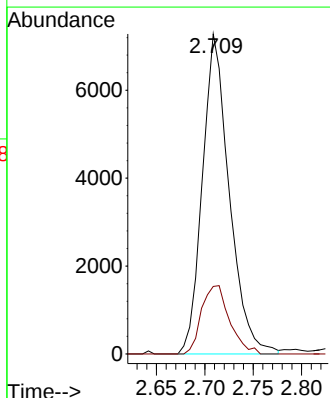
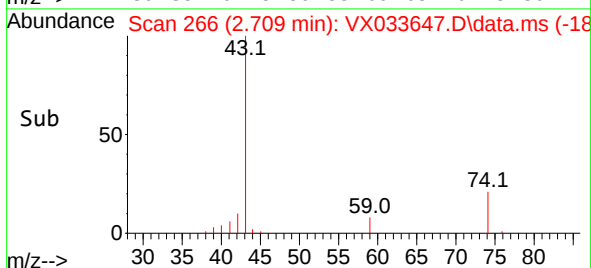
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023

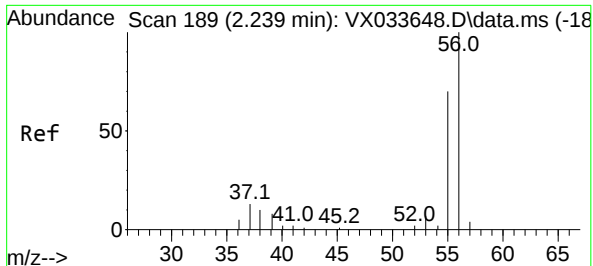


#12  
Methyl Acetate  
Concen: 7.133 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41



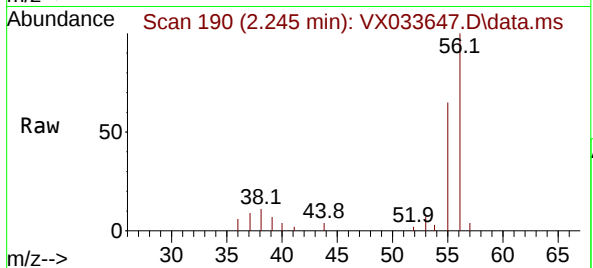
Tgt Ion: 43 Resp: 14095  
Ion Ratio Lower Upper  
43 100  
74 21.2 17.0 25.6





#13  
Acrolein  
Concen: 25.236 ug/l  
RT: 2.245 min Scan# 190  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

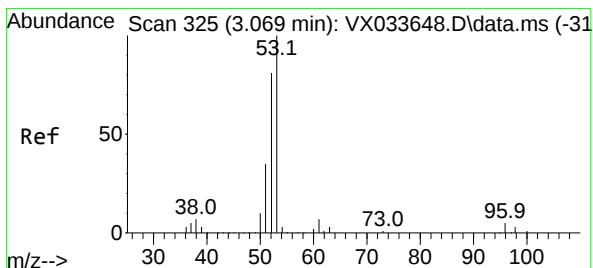
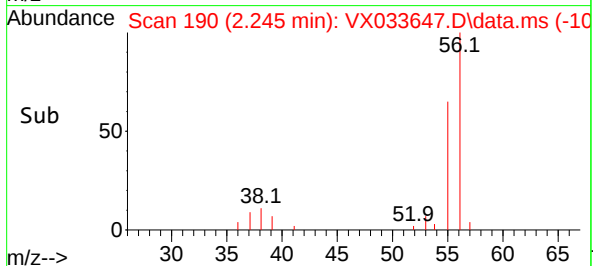
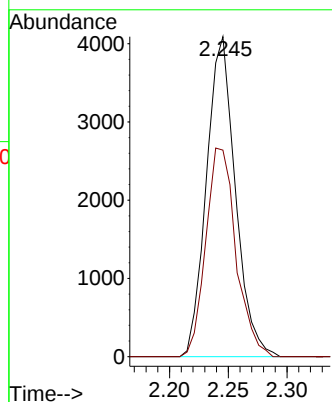
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion: 56 Resp: 699  
Ion Ratio Lower Upper  
56 100  
55 68.0 56.1 84.1

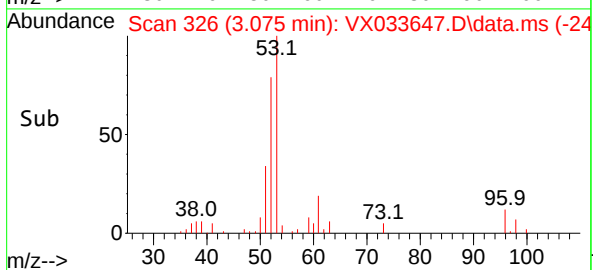
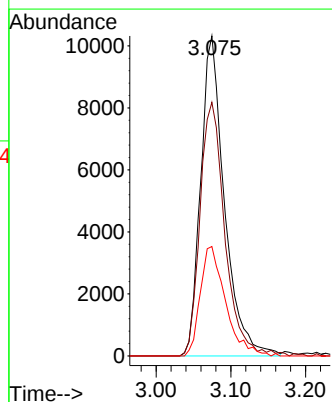
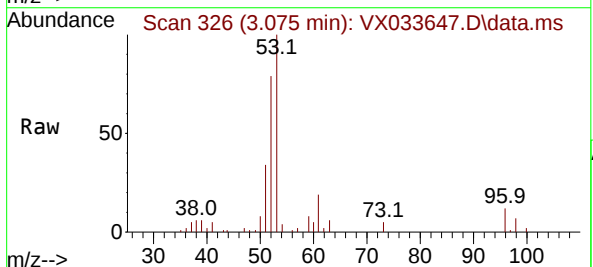
Manual Integrations  
APPROVED

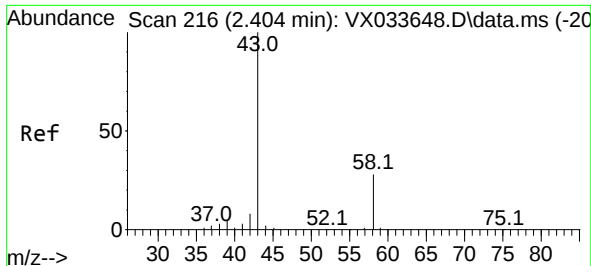
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#14  
Acrylonitrile  
Concen: 32.110 ug/l  
RT: 3.075 min Scan# 326  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

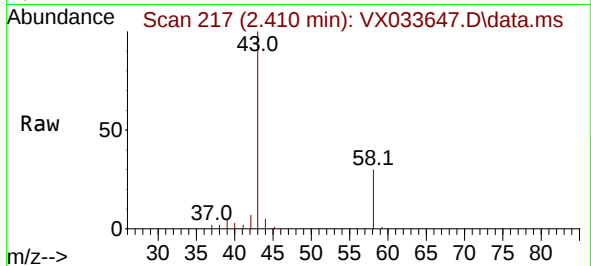
Tgt Ion: 53 Resp: 22800  
Ion Ratio Lower Upper  
53 100  
52 82.5 41.3 124.1  
51 36.3 18.4 55.4





#15  
Acetone  
Concen: 26.741 ug/l  
RT: 2.410 min Scan# 216  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

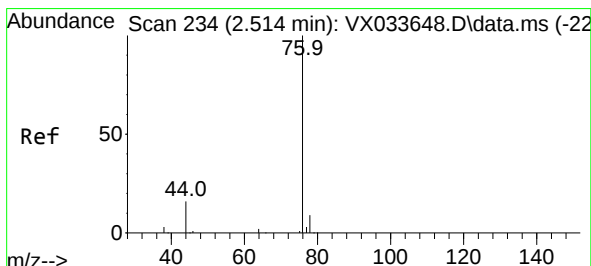
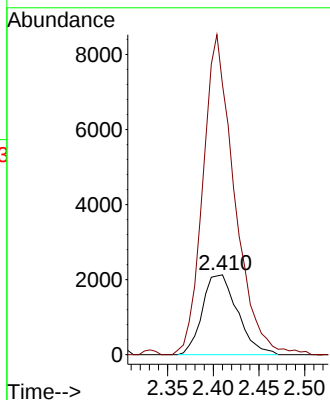
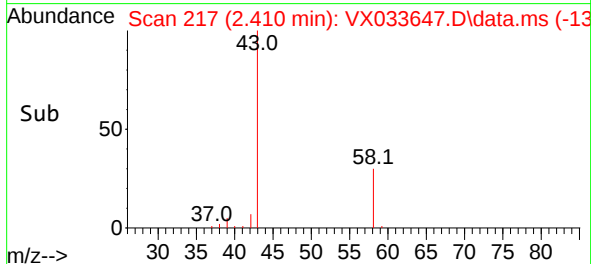
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion: 58 Resp: 5672  
Ion Ratio Lower Upper  
58 100  
43 332.1 288.3 432.5

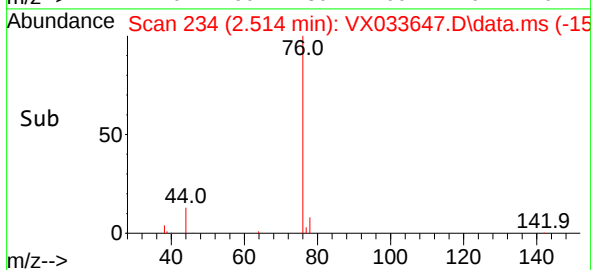
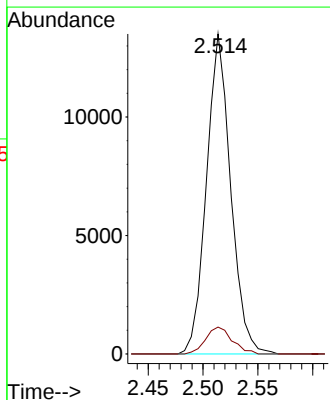
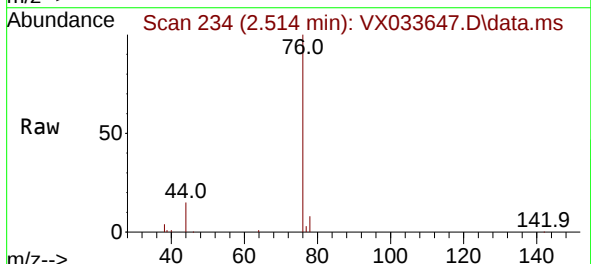
Manual Integrations  
APPROVED

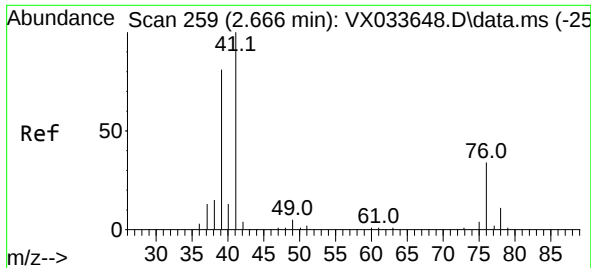
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#16  
Carbon Disulfide  
Concen: 6.044 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion: 76 Resp: 20767  
Ion Ratio Lower Upper  
76 100  
78 8.4 7.0 10.4





#17

Allyl chloride

Concen: 6.150 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

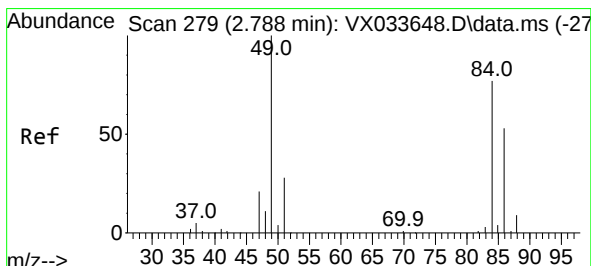
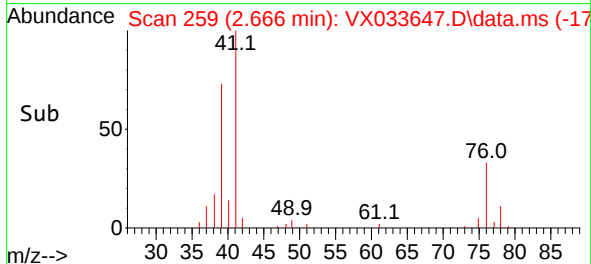
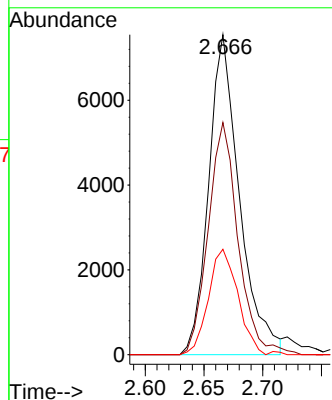
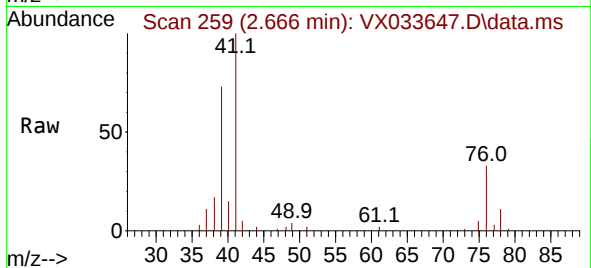
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 1375  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 72.6  | 40.3  | 120.8 |
| 76       | 33.0  | 17.0  | 50.9  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/09/2023

Supervised By :Mahesh Dadoda 01/09/2023



#18

Methylene Chloride

Concen: 6.683 ug/l

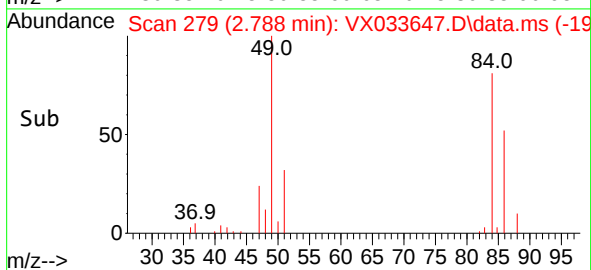
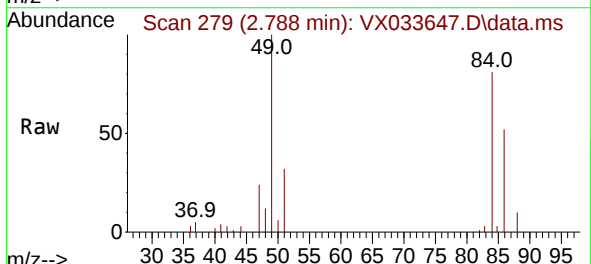
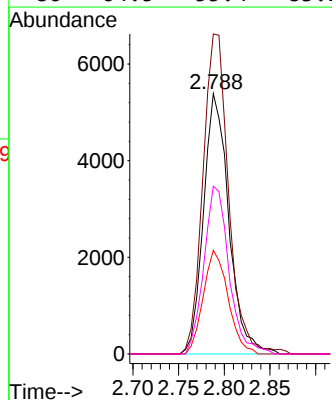
RT: 2.788 min Scan# 279

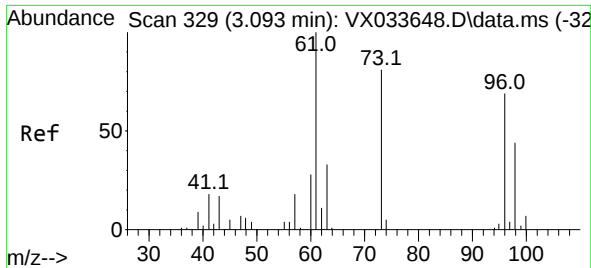
Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 10371 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 122.9 | 104.1 | 156.1 |
| 51       | 39.8  | 29.2  | 43.8  |
| 86       | 64.5  | 55.4  | 83.2  |





#19

trans-1,2-Dichloroethene

Concen: 5.773 ug/l

RT: 3.093 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 8984

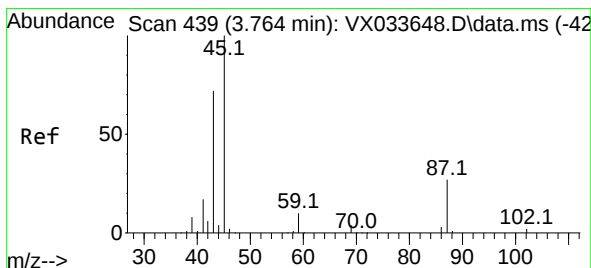
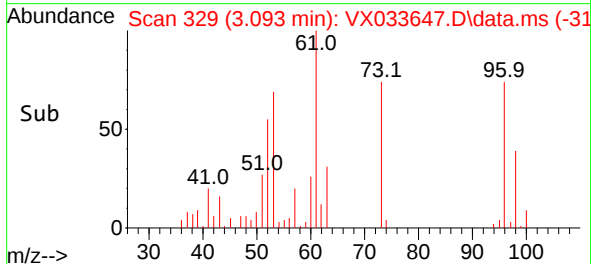
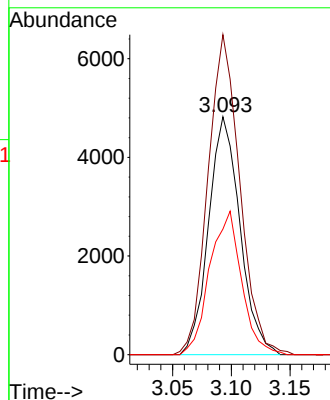
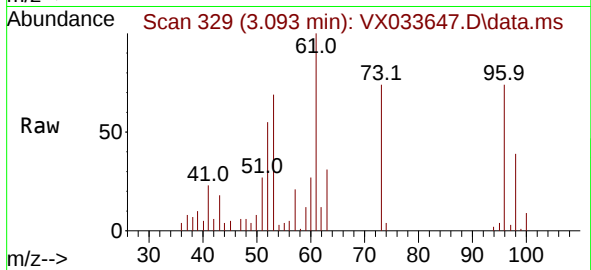
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 133.1 | 117.1 | 175.7 |
| 98  | 52.8  | 52.0  | 78.0  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/09/2023

Supervised By :Mahesh Dadoda 01/09/2023



#20

Diisopropyl ether

Concen: 6.045 ug/l

RT: 3.757 min Scan# 438

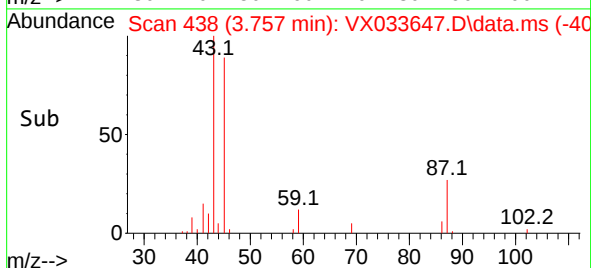
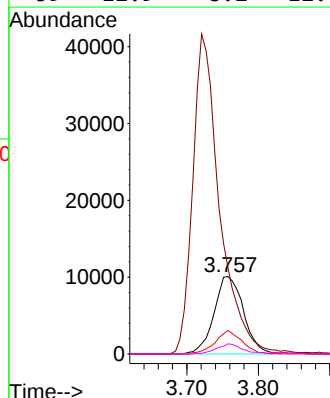
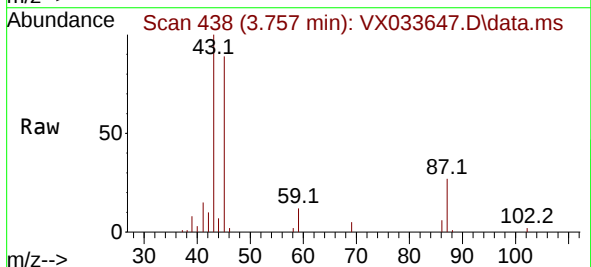
Delta R.T. -0.006 min

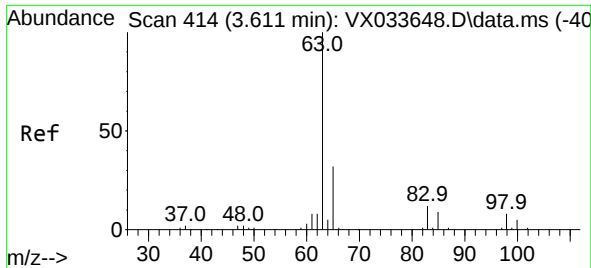
Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Tgt Ion: 45 Resp: 28861

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 43  | 108.6 | 58.0  | 87.0# |
| 87  | 30.4  | 21.7  | 32.5  |
| 59  | 12.9  | 8.2   | 12.4# |





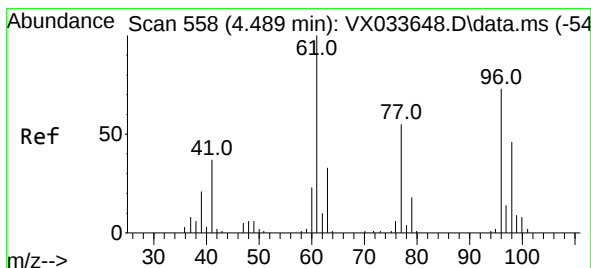
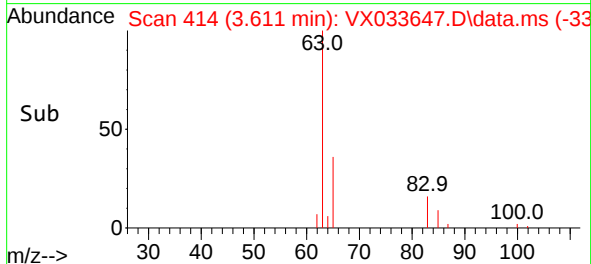
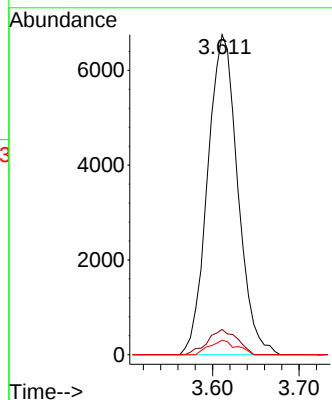
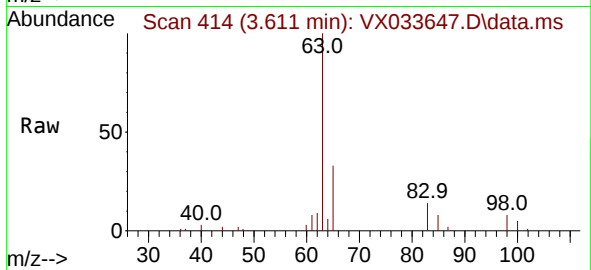
#21  
1,1-Dichloroethane  
Concen: 5.907 ug/l  
RT: 3.611 min Scan# 414  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion: 63 Resp: 1628  
Ion Ratio Lower Upper  
63 100  
98 7.9 4.0 12.2  
100 4.5 2.4 7.2

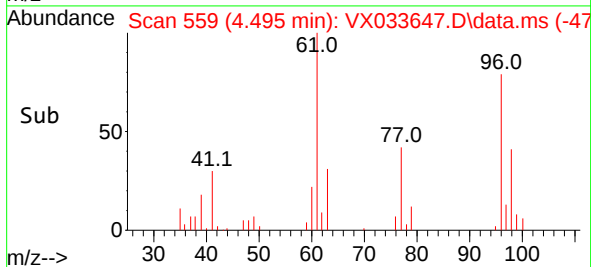
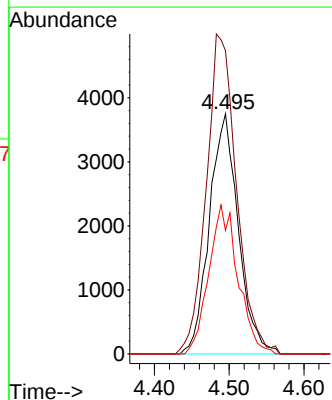
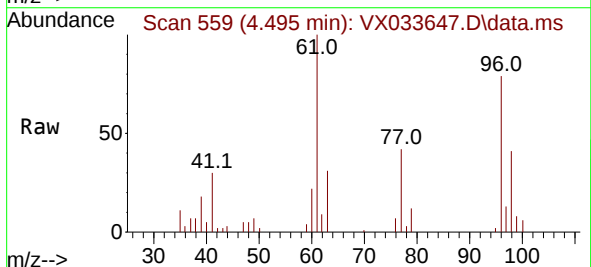
Manual Integrations  
APPROVED

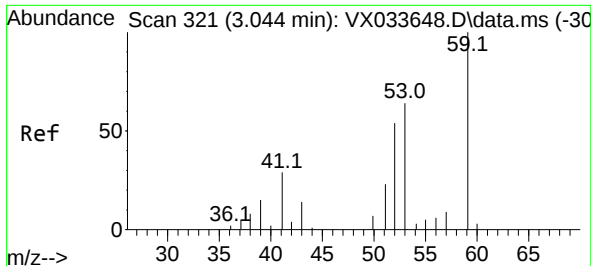
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#22  
cis-1,2-Dichloroethene  
Concen: 5.586 ug/l  
RT: 4.495 min Scan# 559  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion: 96 Resp: 10128  
Ion Ratio Lower Upper  
96 100  
61 138.2 114.2 171.2  
98 62.5 51.4 77.0





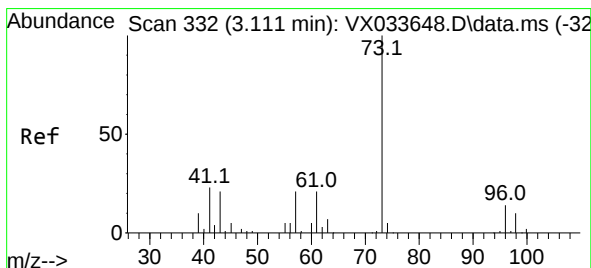
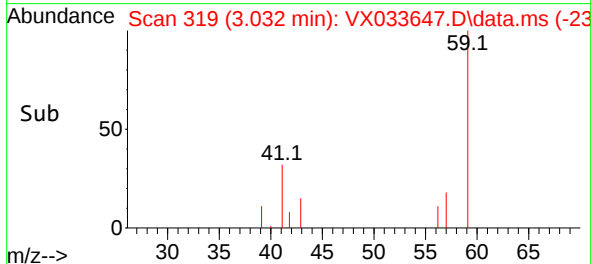
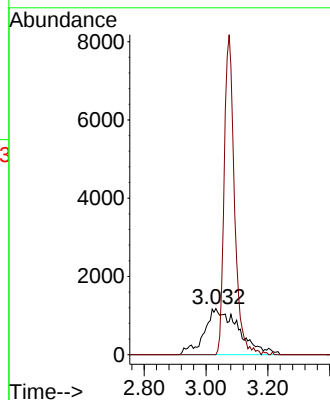
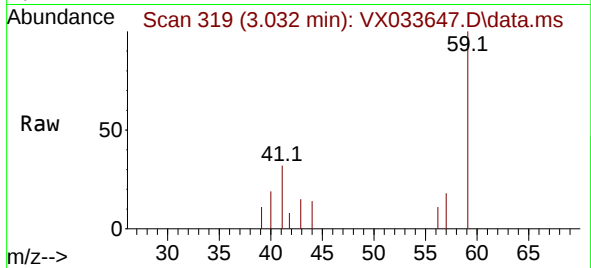
#23  
tert-Butyl Alcohol  
Concen: 30.743 ug/l m  
RT: 3.032 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion: 59 Resp: 914  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.2 0.2

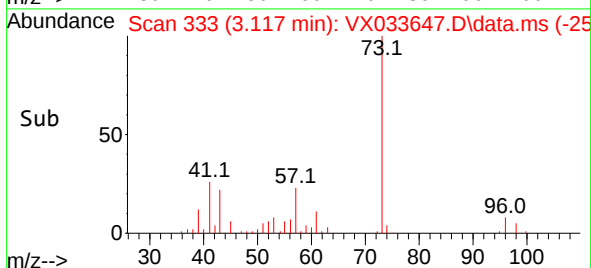
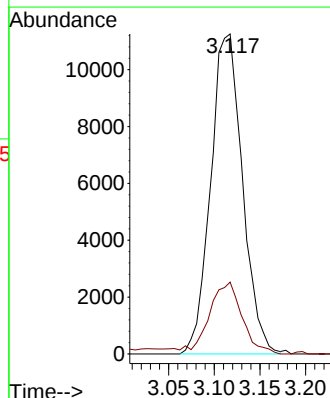
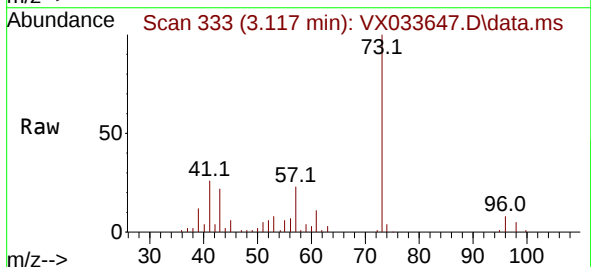
Manual Integrations  
APPROVED

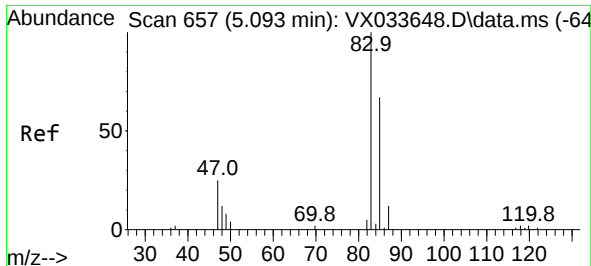
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#24  
Methyl tert-Butyl Ether  
Concen: 5.590 ug/l  
RT: 3.117 min Scan# 333  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion: 73 Resp: 27220  
Ion Ratio Lower Upper  
73 100  
43 22.5 18.1 27.1





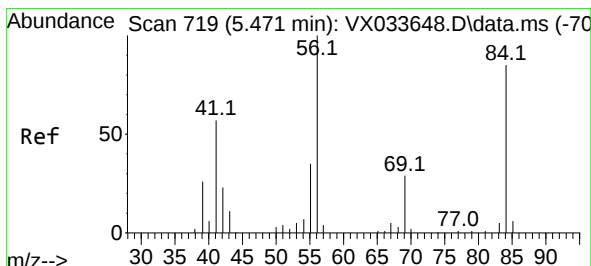
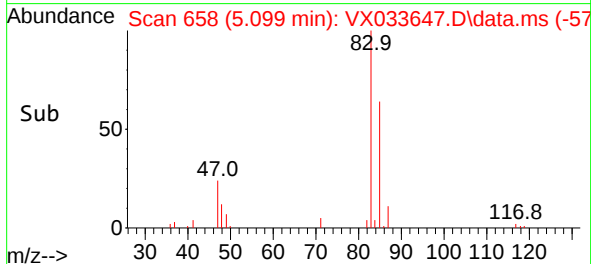
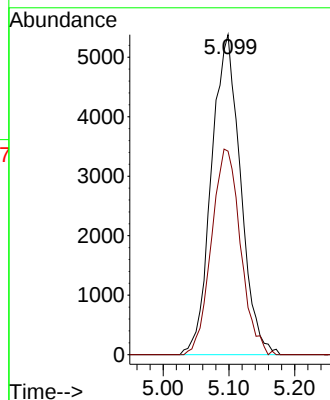
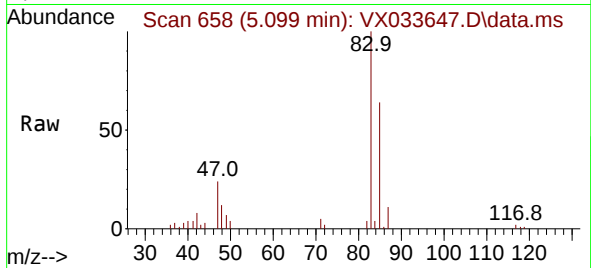
#25  
Chloroform  
Concen: 5.399 ug/l  
RT: 5.099 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion: 83 Resp: 1655  
Ion Ratio Lower Upper  
83 100  
85 63.6 53.9 80.9

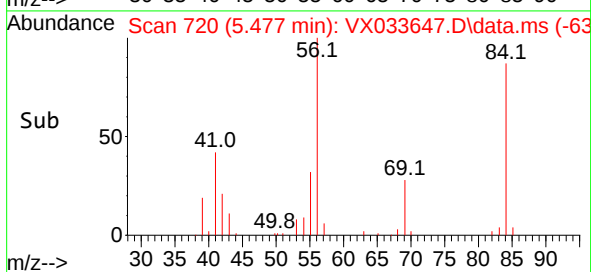
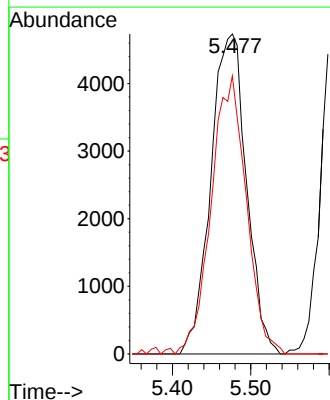
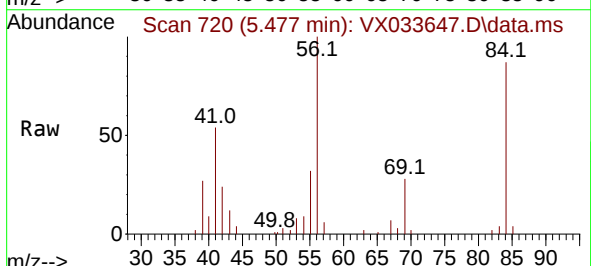
Manual Integrations  
APPROVED

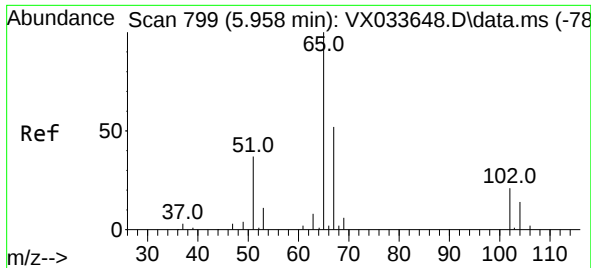
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#26  
Cyclohexane  
Concen: 6.130 ug/l  
RT: 5.477 min Scan# 720  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion: 56 Resp: 14996  
Ion Ratio Lower Upper  
56 100  
89 0.0 0.0 0.0  
84 85.0 70.8 106.2





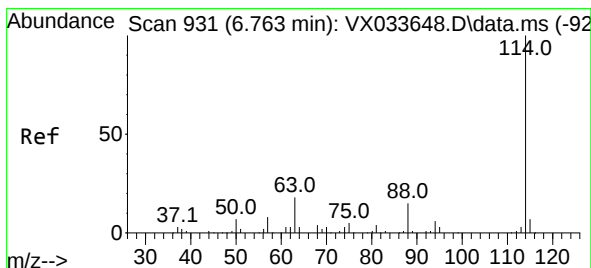
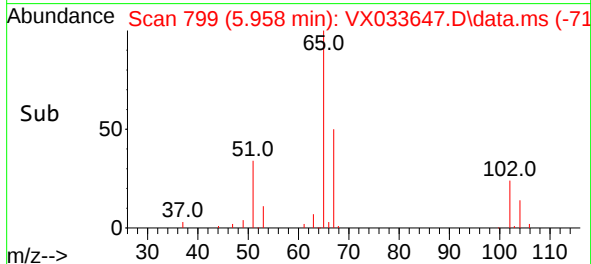
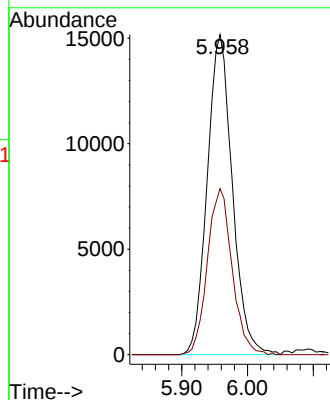
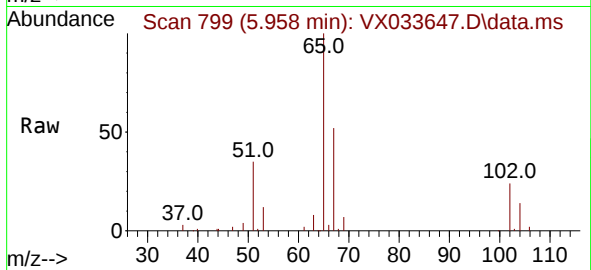
#27  
1,2-Dichloroethane-d4  
Concen: 30.059 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion: 65 Resp: 40288  
Ion Ratio Lower Upper  
65 100  
67 51.1 40.4 60.6

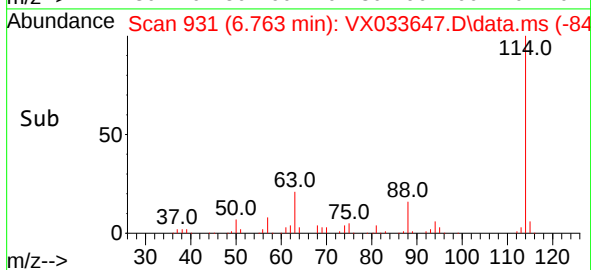
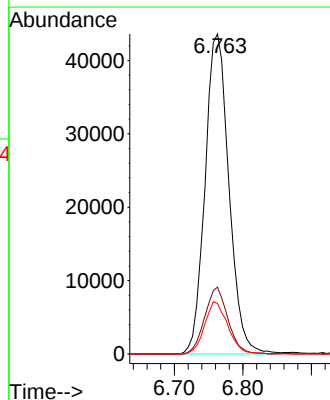
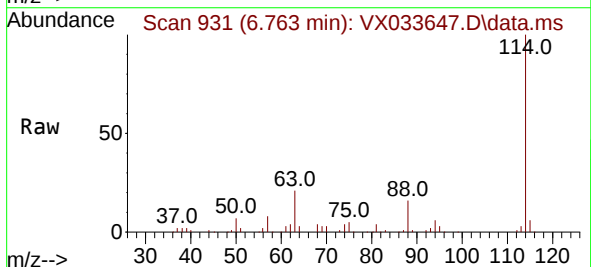
Manual Integrations  
APPROVED

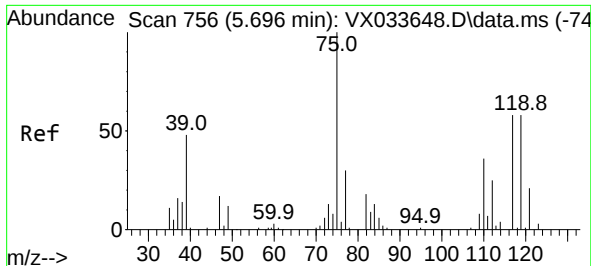
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.763 min Scan# 931  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion:114 Resp: 105579  
Ion Ratio Lower Upper  
114 100  
63 20.2 15.5 23.3  
88 15.9 12.4 18.6





#29  
1,1-Dichloropropene  
Concen: 5.513 ug/l  
RT: 5.702 min Scan# 756  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

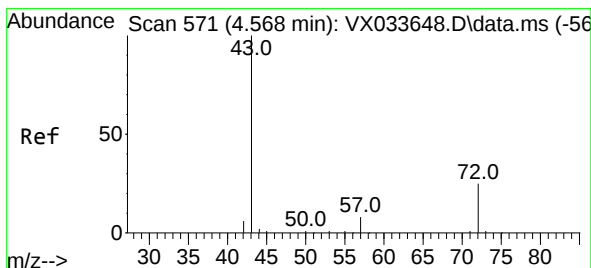
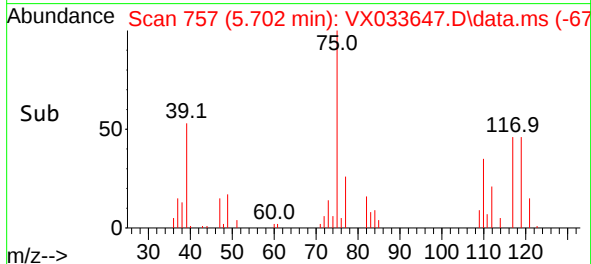
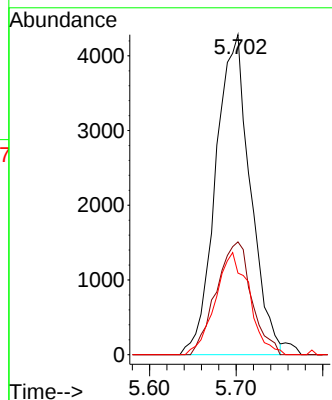
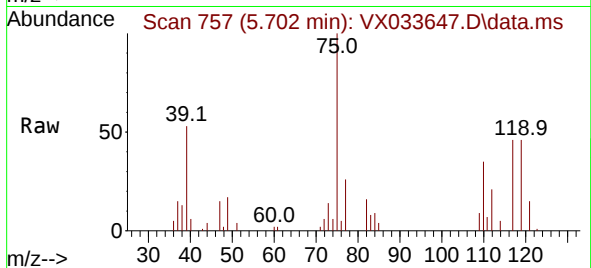
VSTDIC005

Tgt Ion: 75 Resp: 11875  
Ion Ratio Lower Upper  
75 100  
110 36.1 0.0 71.4  
77 31.3 0.0 61.0

Manual Integrations

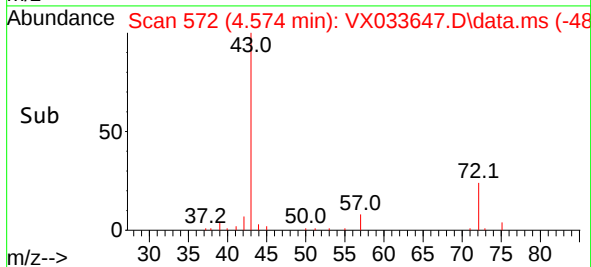
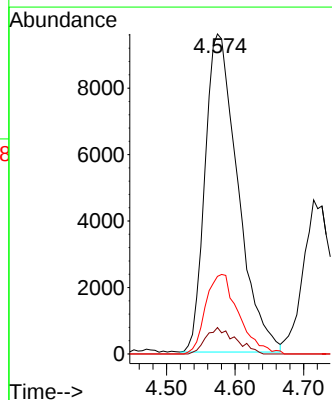
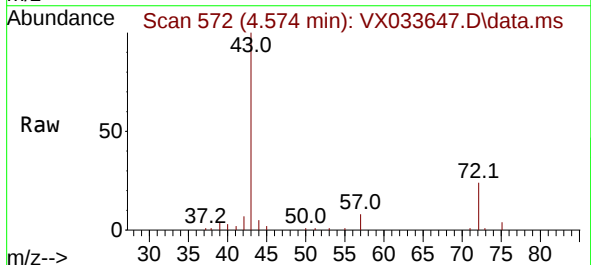
APPROVED

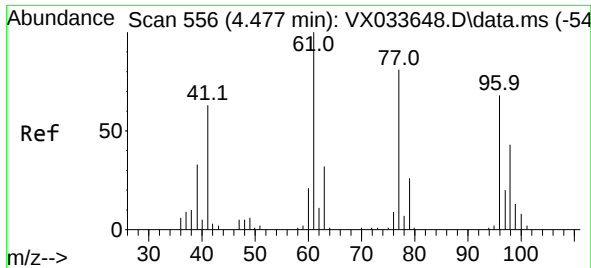
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#30  
2-Butanone  
Concen: 31.122 ug/l  
RT: 4.574 min Scan# 572  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion: 43 Resp: 31782  
Ion Ratio Lower Upper  
43 100  
57 7.5 3.4 5.2#  
72 25.0 19.8 29.6





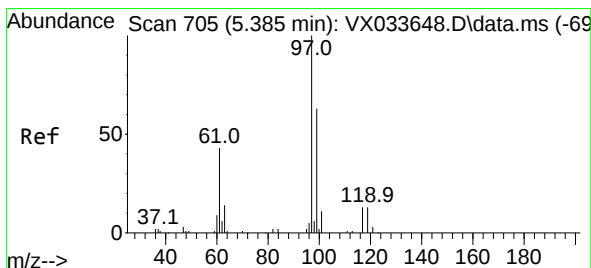
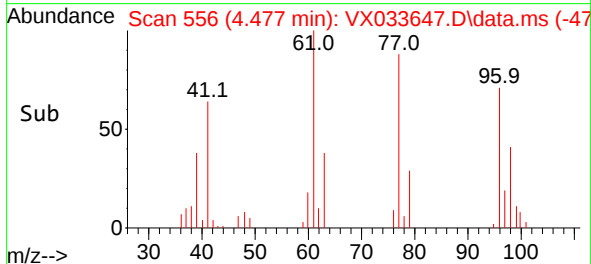
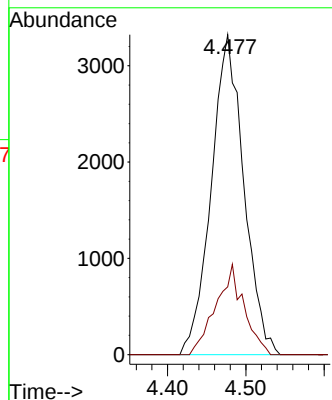
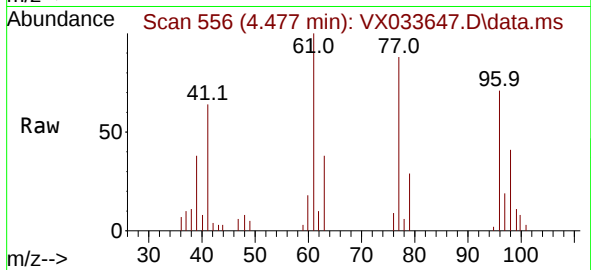
#31  
2,2-Dichloropropane  
Concen: 4.423 ug/l  
RT: 4.477 min Scan# 556  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion: 77 Resp: 959  
Ion Ratio Lower Upper  
77 100  
97 24.3 19.0 28.6

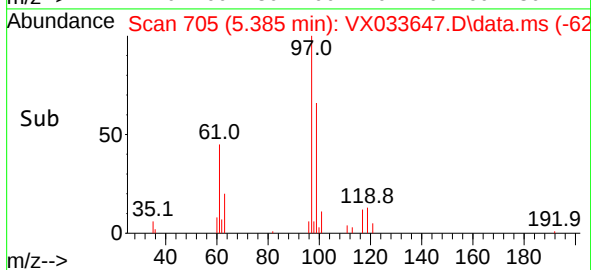
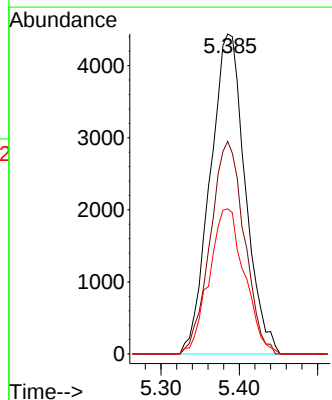
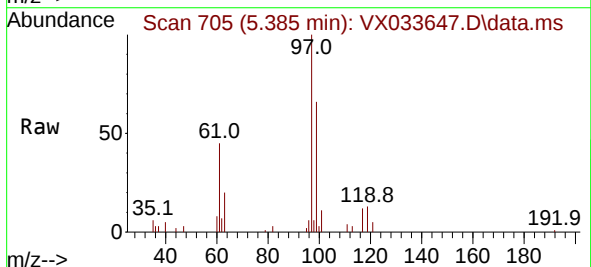
Manual Integrations  
APPROVED

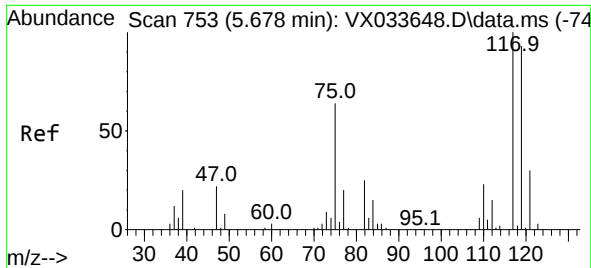
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#32  
1,1,1-Trichloroethane  
Concen: 5.093 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

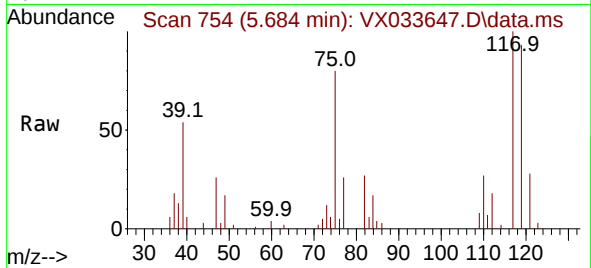
Tgt Ion: 97 Resp: 13797  
Ion Ratio Lower Upper  
97 100  
99 64.4 52.0 78.0  
61 45.8 35.4 53.2





#33  
Carbon Tetrachloride  
Concen: 5.053 ug/l  
RT: 5.684 min Scan# 754  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

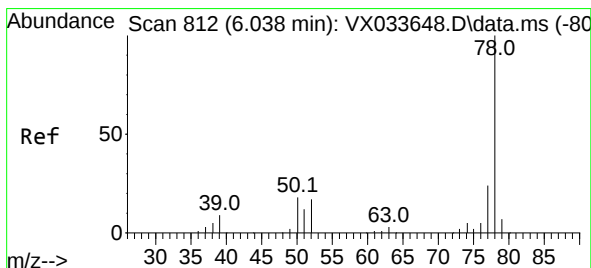
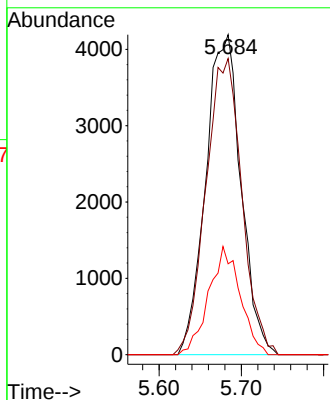
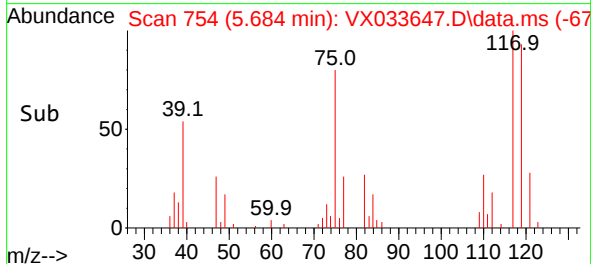
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion: 117 Resp: 12470  
Ion Ratio Lower Upper  
117 100  
119 92.6 74.8 112.2  
121 28.4 23.8 35.8

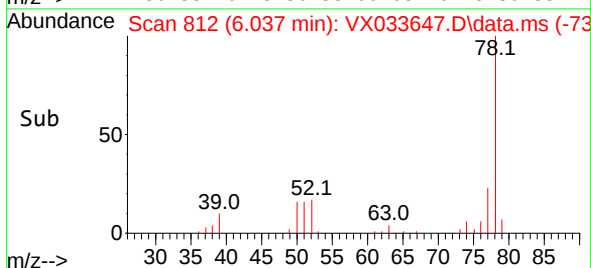
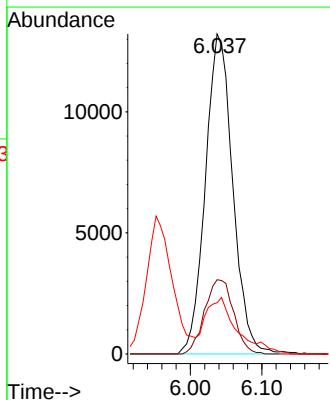
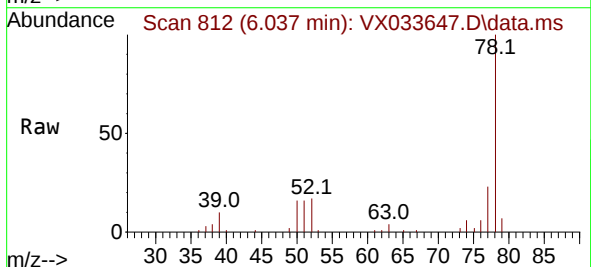
Manual Integrations  
APPROVED

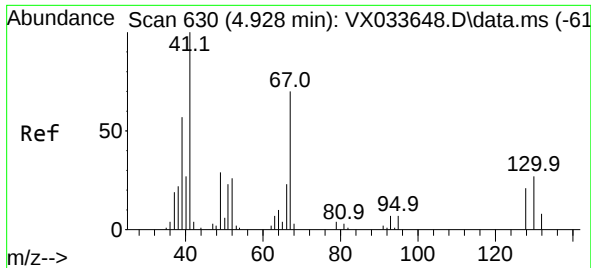
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#34  
Benzene  
Concen: 5.695 ug/l  
RT: 6.037 min Scan# 812  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion: 78 Resp: 35140  
Ion Ratio Lower Upper  
78 100  
77 23.2 19.5 29.3  
51 15.1 13.0 19.6





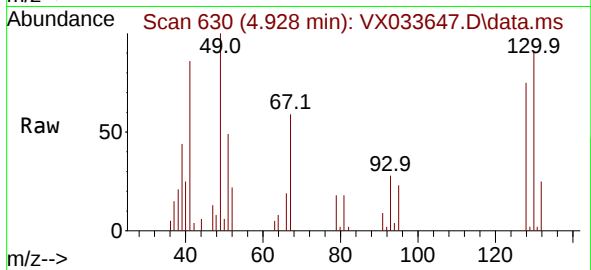
#35  
Methacrylonitrile  
Concen: 6.577 ug/l  
RT: 4.928 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC005



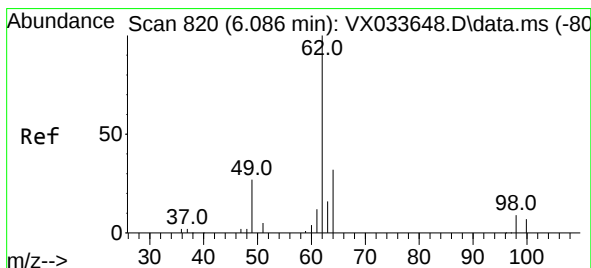
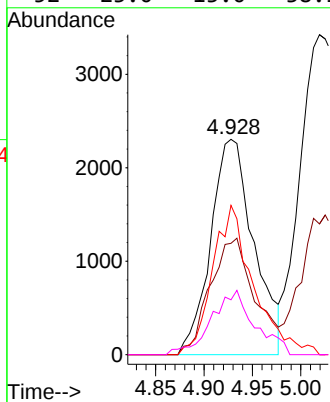
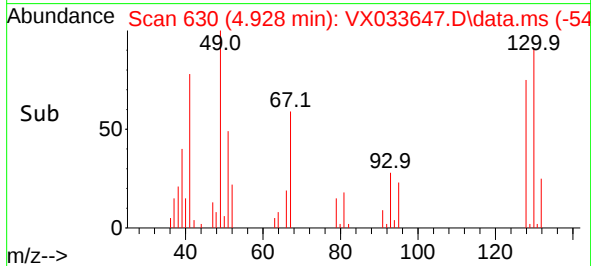
| Tgt Ion: | 41    | Resp: | 716   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 51.7  | 28.6  | 85.9  |
| 67       | 69.3  | 34.8  | 104.3 |
| 52       | 23.0  | 13.0  | 38.9  |

Manual Integrations

APPROVED

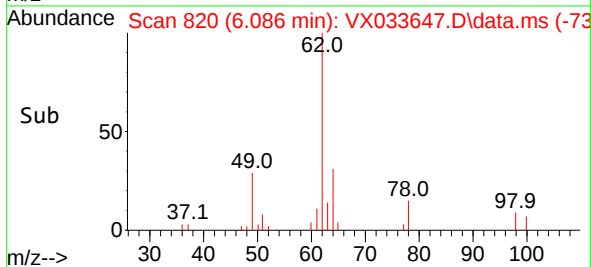
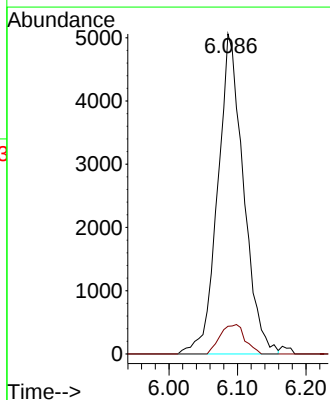
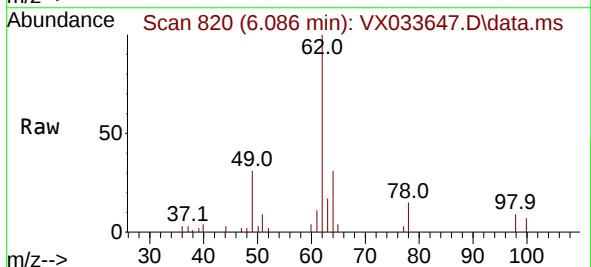
Reviewed By :John Carlone 01/09/2023

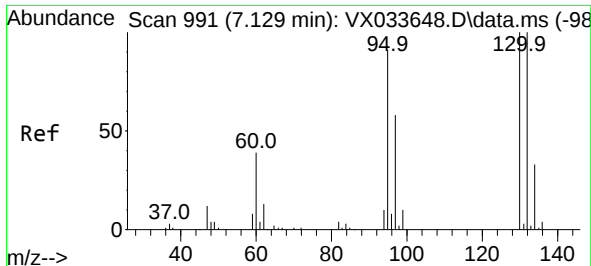
Supervised By :Mahesh Dadoda 01/09/2023



#36  
1,2-Dichloroethane  
Concen: 5.631 ug/l  
RT: 6.086 min Scan# 820  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

| Tgt Ion: | 62    | Resp: | 13189 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 8.9   | 7.4   | 11.0  |





#37

Trichloroethene

Concen: 5.712 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC005

Tgt Ion:130 Resp: 10014

Ion Ratio Lower Upper

130 100

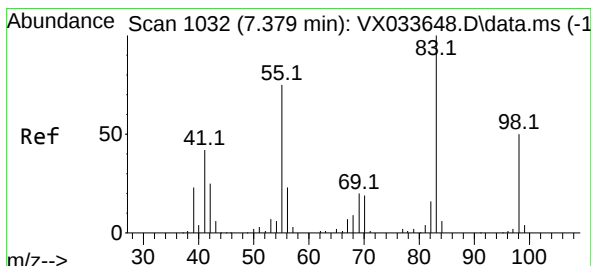
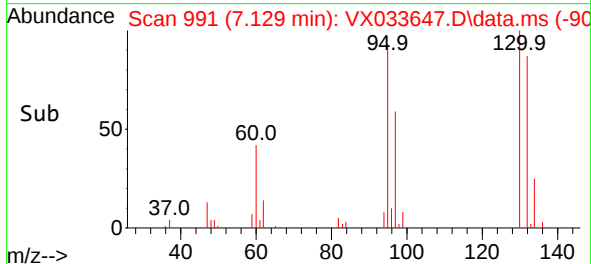
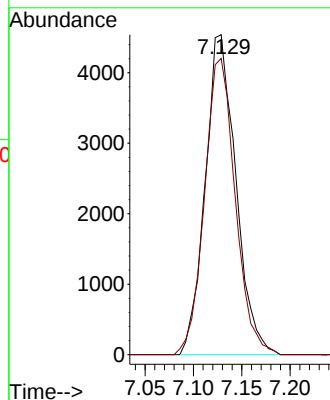
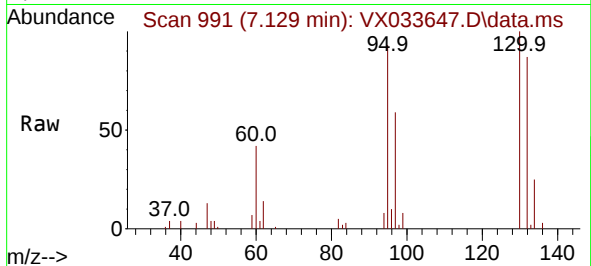
95 92.6 73.1 109.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/09/2023

Supervised By :Mahesh Dadoda 01/09/2023



#38

Methylcyclohexane

Concen: 5.625 ug/l

RT: 7.379 min Scan# 1032

Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

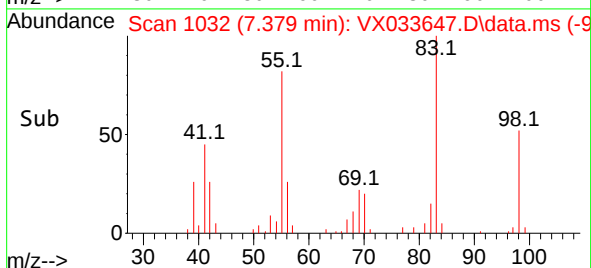
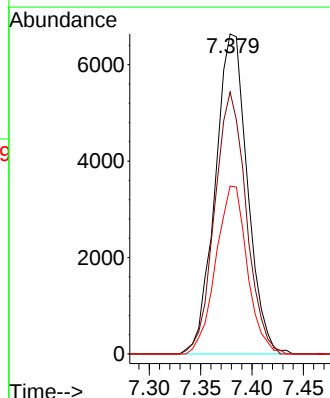
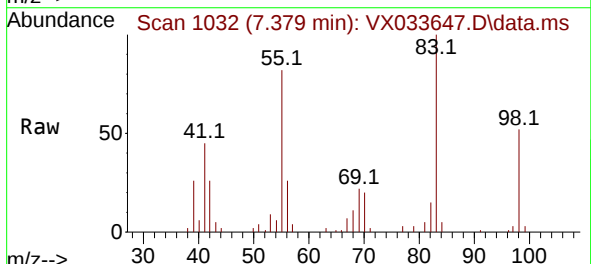
Tgt Ion: 83 Resp: 14444

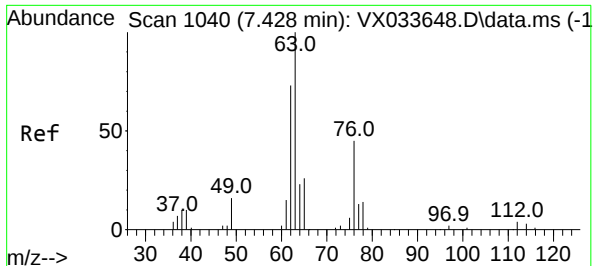
Ion Ratio Lower Upper

83 100

55 80.1 38.6 115.7

98 51.2 25.3 75.8





#39

1,2-Dichloropropane

Concen: 5.528 ug/l

RT: 7.433 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC005

Tgt Ion: 63 Resp: 858

Ion Ratio Lower Upper

63 100

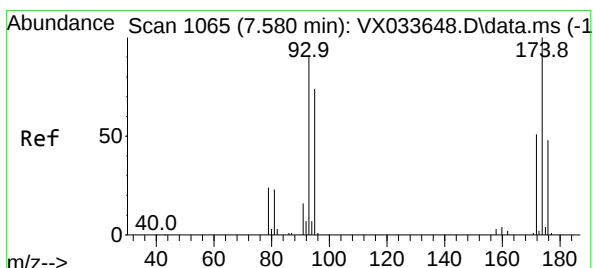
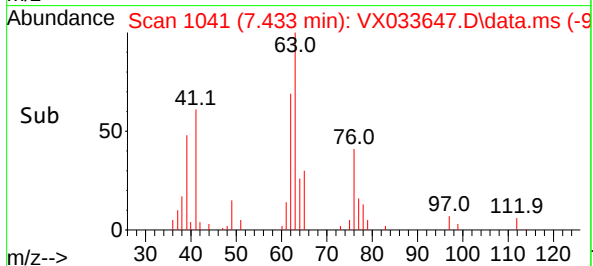
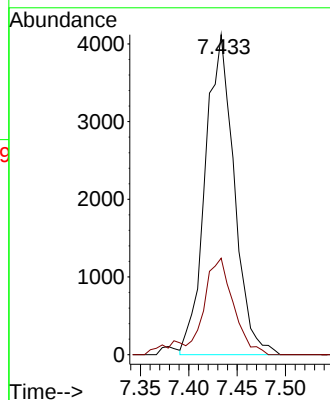
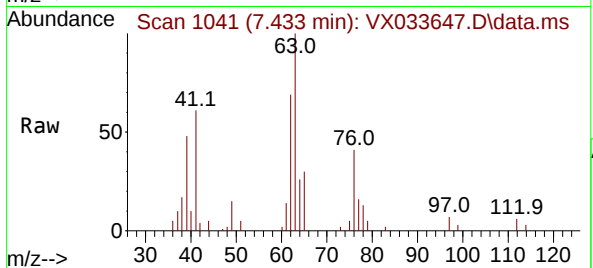
65 30.1 23.2 34.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/09/2023

Supervised By :Mahesh Dadoda 01/09/2023



#40

Dibromomethane

Concen: 5.290 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

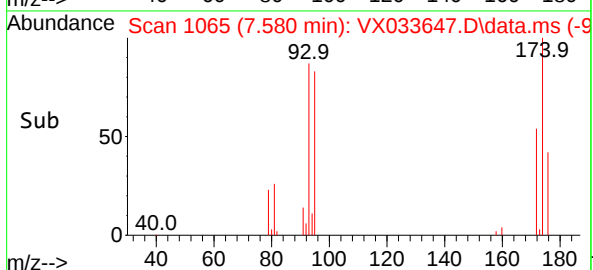
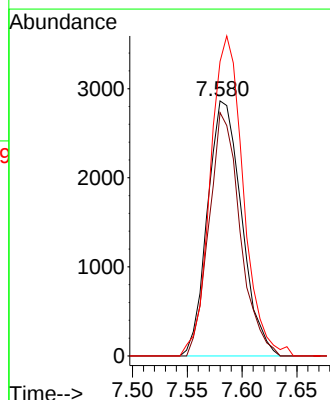
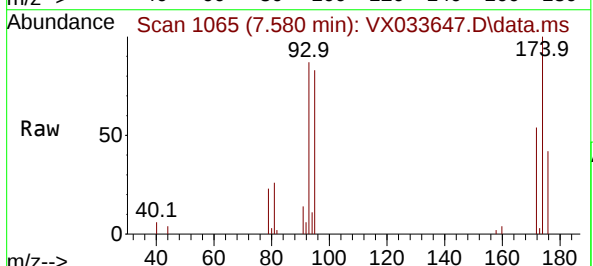
Tgt Ion: 93 Resp: 6179

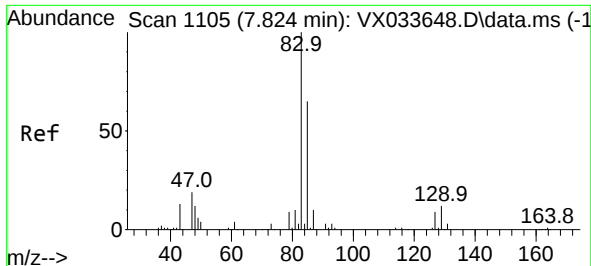
Ion Ratio Lower Upper

93 100

95 87.1 0.0 166.4

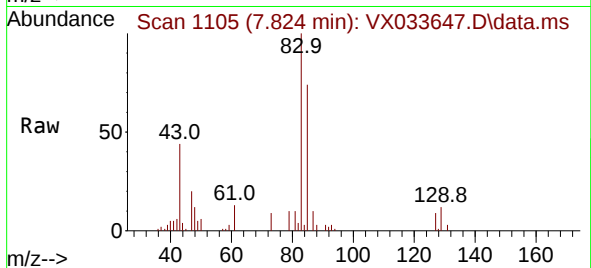
174 120.8 0.0 233.8





#41  
Bromodichloromethane  
Concen: 4.929 ug/l  
RT: 7.824 min Scan# 1105  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

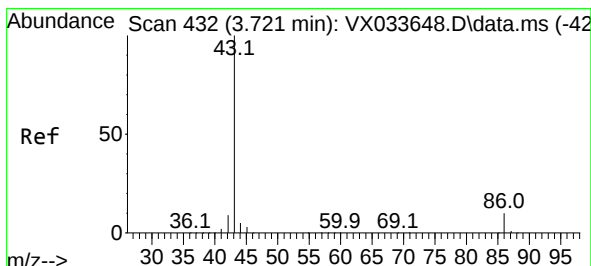
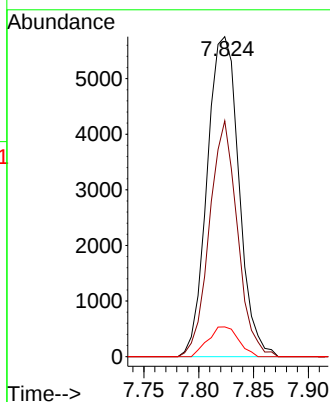
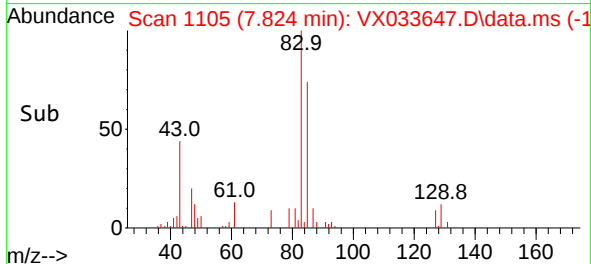
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion: 83 Resp: 1159  
Ion Ratio Lower Upper  
83 100  
85 73.7 52.0 78.0  
127 9.3 7.4 11.0

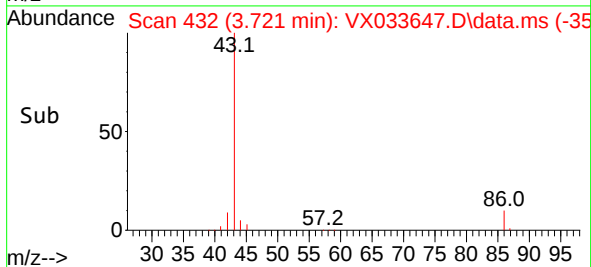
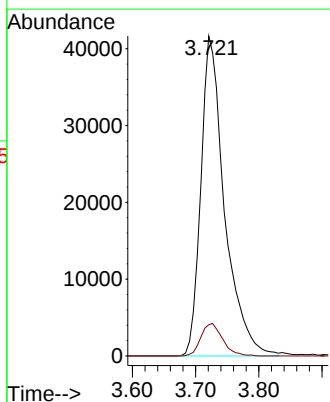
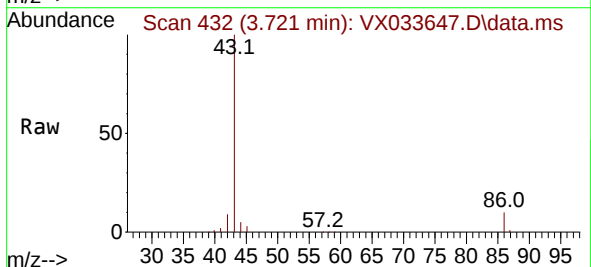
Manual Integrations  
APPROVED

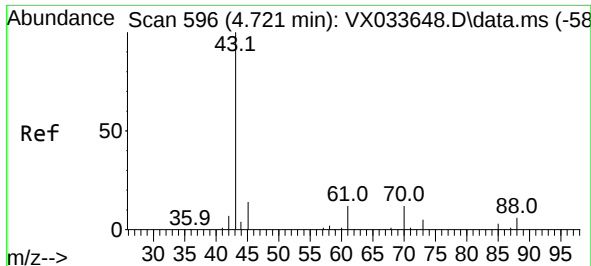
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#42  
Vinyl Acetate  
Concen: 30.145 ug/l  
RT: 3.721 min Scan# 432  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

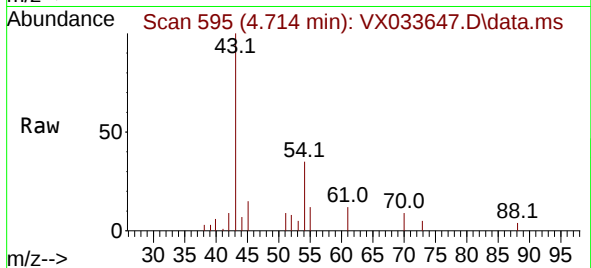
Tgt Ion: 43 Resp: 108675  
Ion Ratio Lower Upper  
43 100  
86 9.3 7.2 10.8





#43  
Ethyl Acetate  
Concen: 6.518 ug/l  
RT: 4.714 min Scan# 595  
Delta R.T. -0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

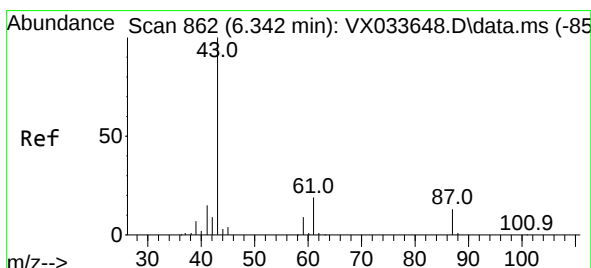
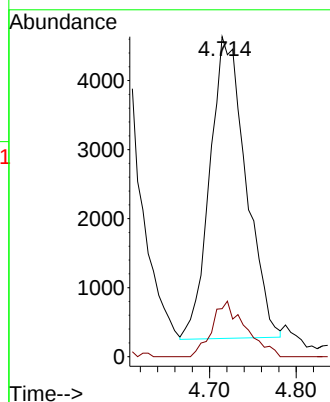
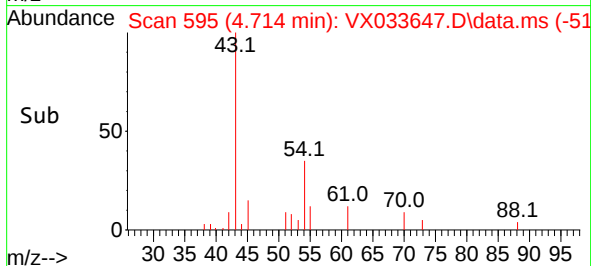
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion: 43 Resp: 1263  
Ion Ratio Lower Upper  
43 100  
45 17.1 11.2 16.8

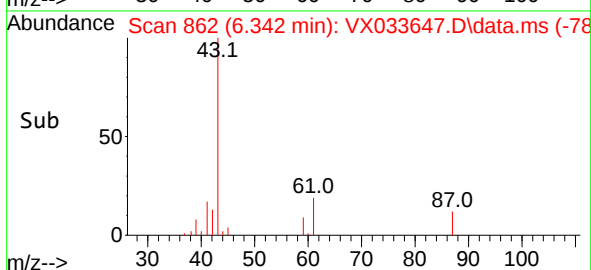
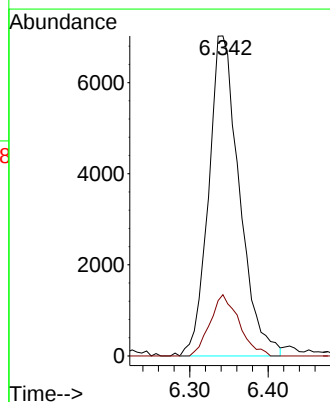
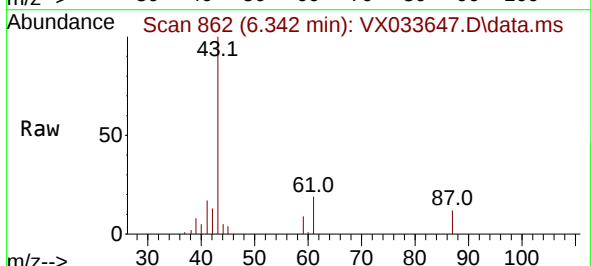
Manual Integrations  
APPROVED

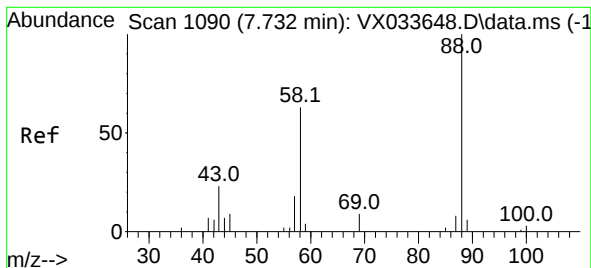
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#44  
Isopropyl Acetate  
Concen: 6.062 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion: 43 Resp: 19193  
Ion Ratio Lower Upper  
43 100  
61 18.1 15.4 23.2





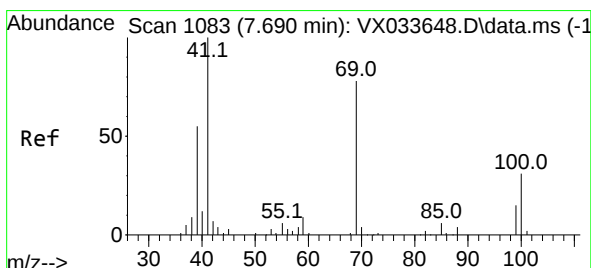
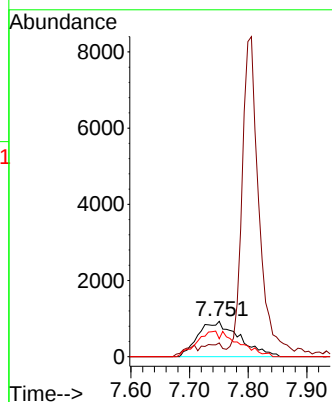
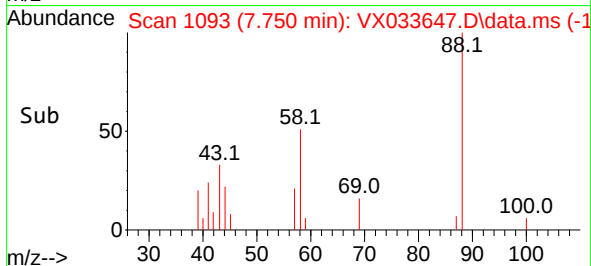
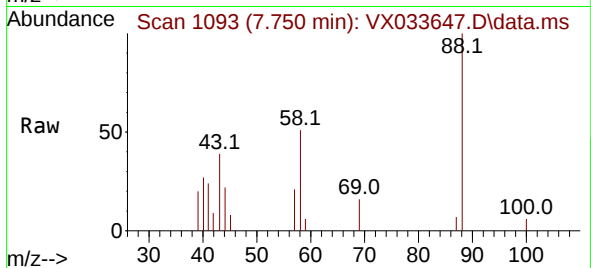
#45  
1,4-Dioxane  
Concen: 123.326 ug/l m  
RT: 7.750 min Scan# 1090  
Delta R.T. 0.018 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion: 88 Resp: 4500  
Ion Ratio Lower Upper  
88 100  
43 11.6 1.2 1.8  
58 0.0 8.5 12.7

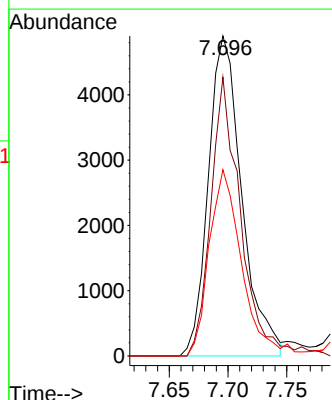
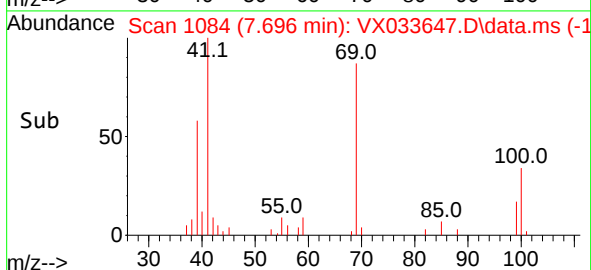
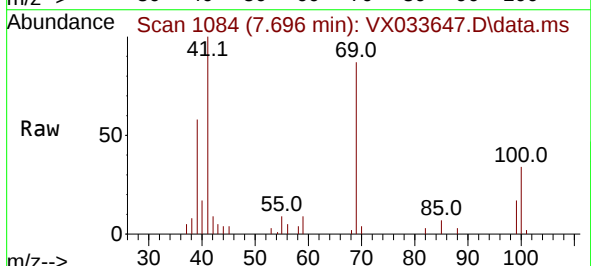
Manual Integrations  
APPROVED

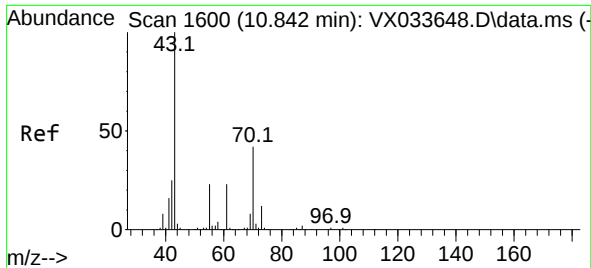
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#46  
Methyl methacrylate  
Concen: 6.085 ug/l  
RT: 7.696 min Scan# 1084  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion: 41 Resp: 9702  
Ion Ratio Lower Upper  
41 100  
69 87.1 39.1 117.3  
39 58.2 27.7 83.0





#47

n-amy1 Acetate

Concen: 5.848 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 15650

Ion Ratio Lower Upper

43 100

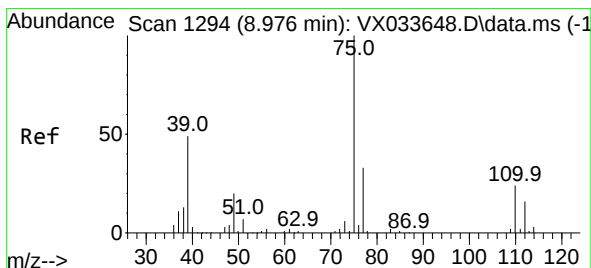
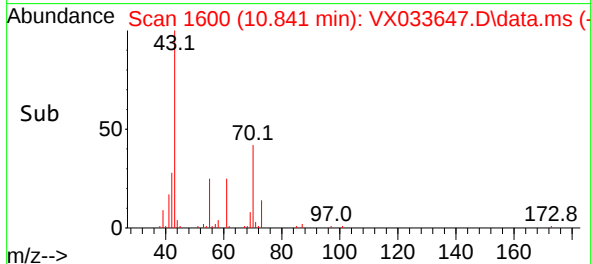
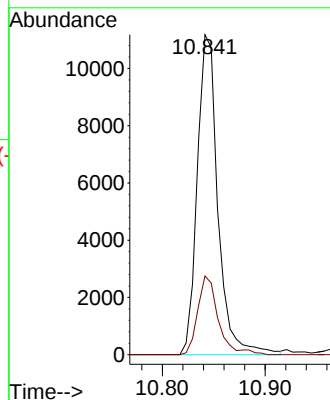
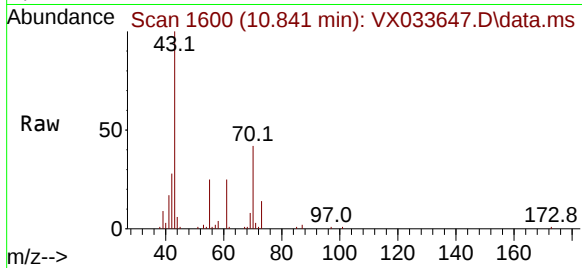
55 23.4 19.3 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/09/2023

Supervised By :Mahesh Dadoda 01/09/2023



#48

t-1,3-Dichloropropene

Concen: 4.441 ug/l

RT: 8.982 min Scan# 1295

Delta R.T. 0.006 min

Lab File: VX033647.D

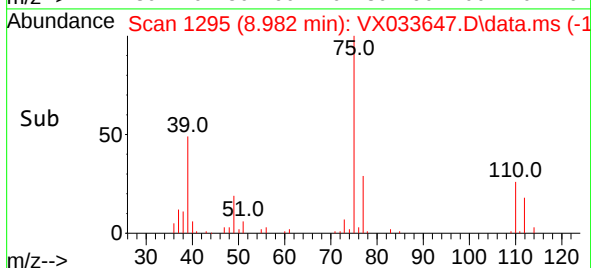
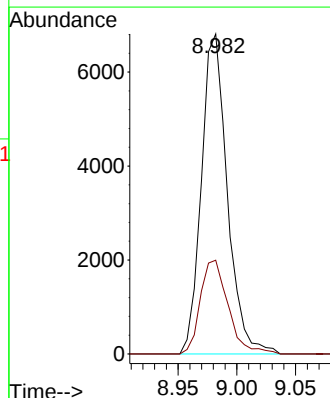
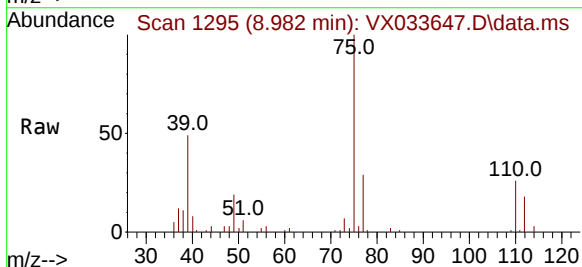
Acq: 06 Jan 2023 22:41

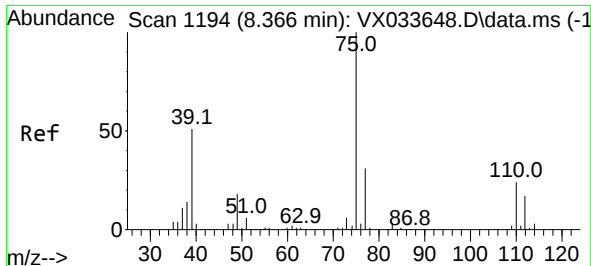
Tgt Ion: 75 Resp: 10471

Ion Ratio Lower Upper

75 100

77 29.3 26.5 39.7





#49

cis-1,3-Dichloropropene

Concen: 4.854 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 12390

Ion Ratio Lower Upper

75 100

77 30.0 24.7 37.1

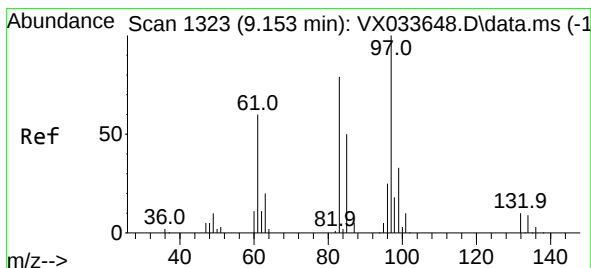
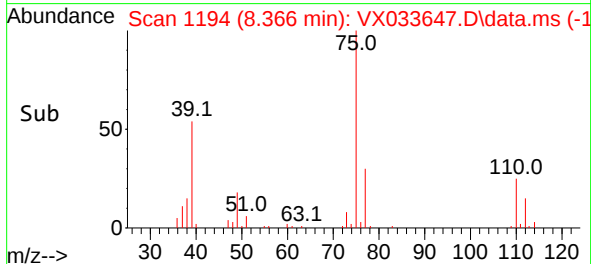
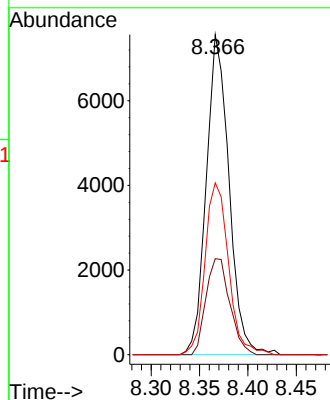
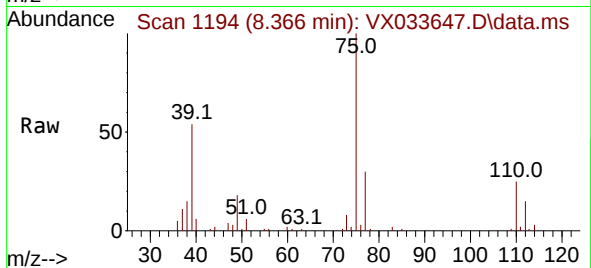
39 53.7 40.7 61.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/09/2023

Supervised By :Mahesh Dadoda 01/09/2023



#50

1,1,2-Trichloroethane

Concen: 5.707 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Tgt Ion: 97 Resp: 9249

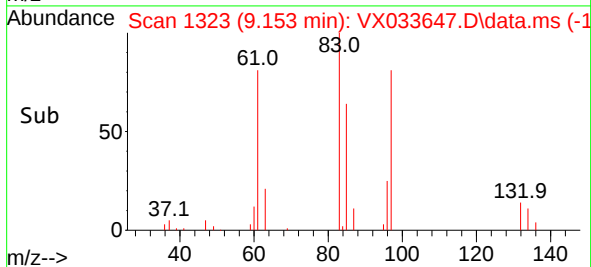
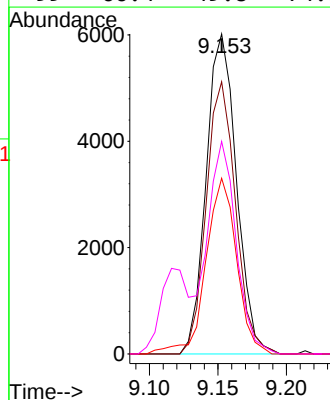
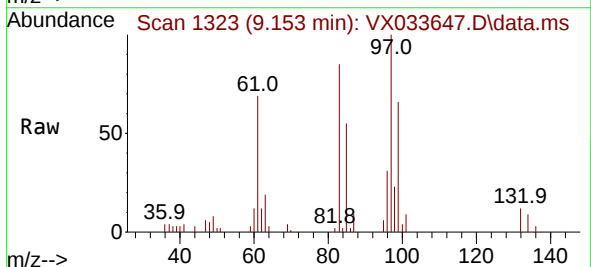
Ion Ratio Lower Upper

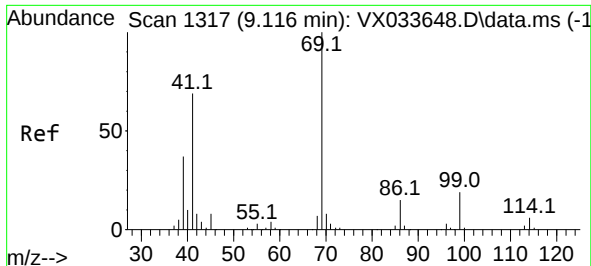
97 100

83 85.0 63.0 94.4

85 54.9 42.8 64.2

99 66.4 49.8 74.8





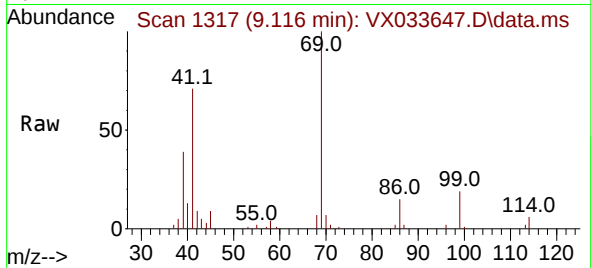
#51  
Ethyl methacrylate  
Concen: 5.222 ug/l  
RT: 9.116 min Scan# 1317  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005



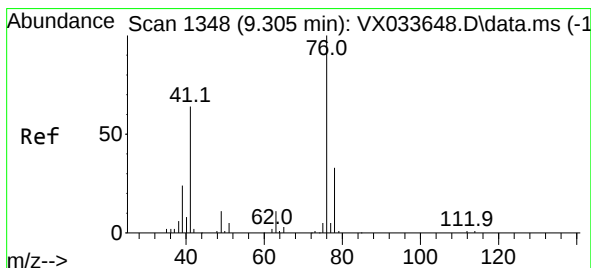
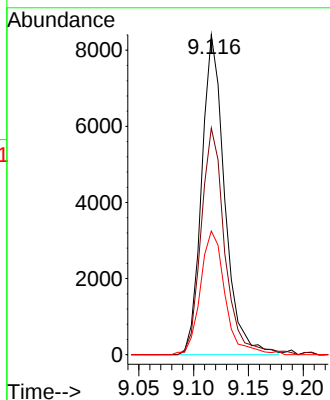
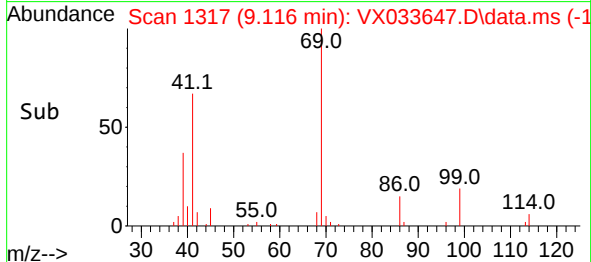
Tgt Ion: 69 Resp: 1225  
Ion Ratio Lower Upper  
69 100  
41 70.9 34.3 102.9  
39 37.9 18.3 54.9

Manual Integrations

APPROVED

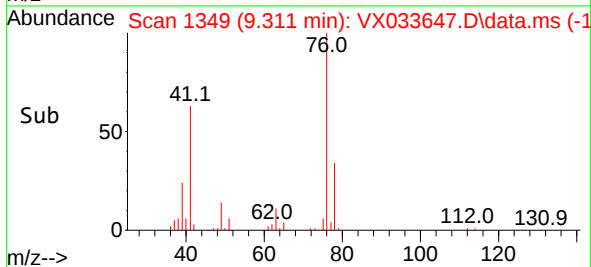
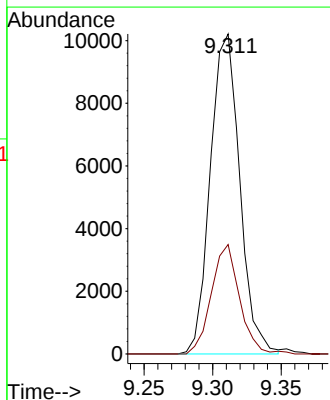
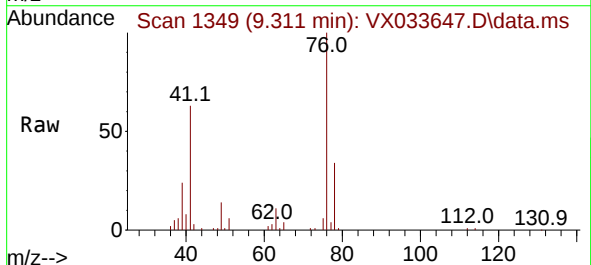
Reviewed By :John Carlone 01/09/2023

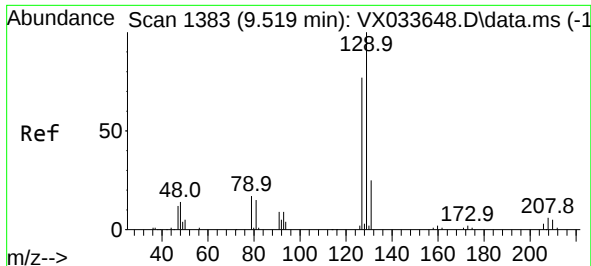
Supervised By :Mahesh Dadoda 01/09/2023



#52  
1,3-Dichloropropane  
Concen: 5.716 ug/l  
RT: 9.311 min Scan# 1349  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

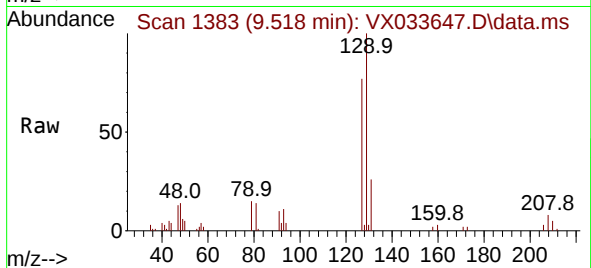
Tgt Ion: 76 Resp: 15254  
Ion Ratio Lower Upper  
76 100  
78 32.4 0.0 64.6





#53  
Dibromochloromethane  
Concen: 4.788 ug/l  
RT: 9.518 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

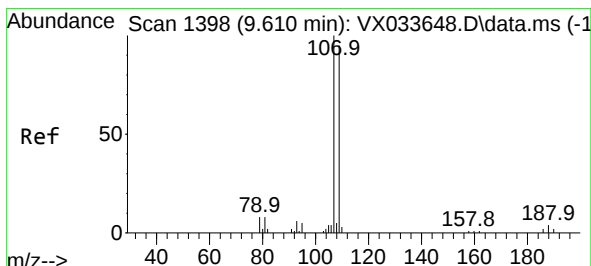
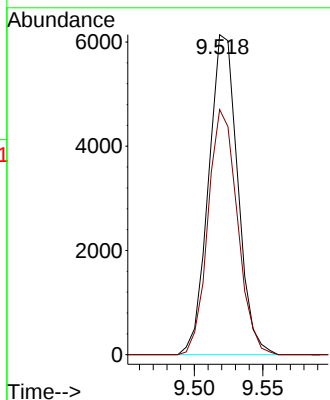
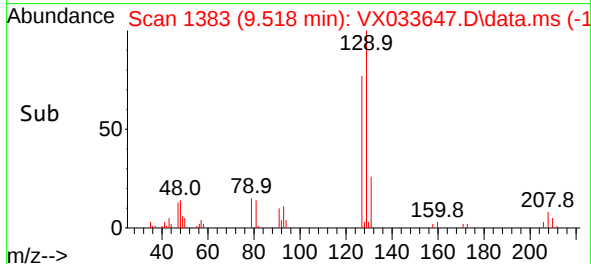
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



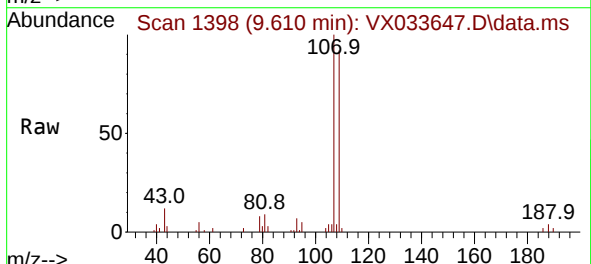
Tgt Ion:129 Resp: 9084  
Ion Ratio Lower Upper  
129 100  
127 77.2 39.8 119.4

Manual Integrations  
APPROVED

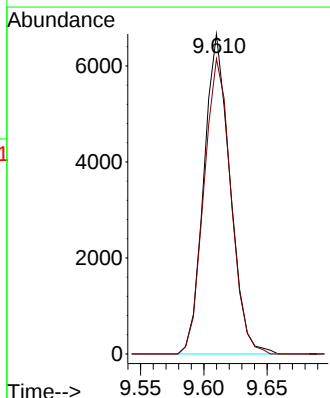
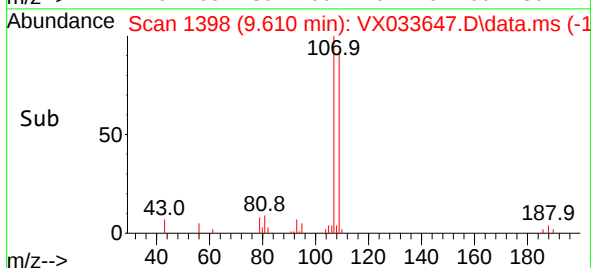
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023

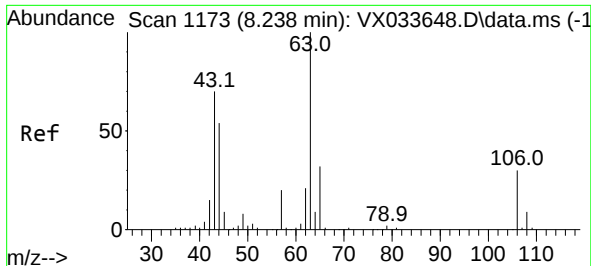


#54  
1,2-Dibromoethane  
Concen: 5.425 ug/l  
RT: 9.610 min Scan# 1398  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41



Tgt Ion:107 Resp: 9573  
Ion Ratio Lower Upper  
107 100  
109 95.2 76.4 114.6





#55  
2-Chloroethyl vinyl ether  
Concen: 26.902 ug/l  
RT: 8.244 min Scan# 1174  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

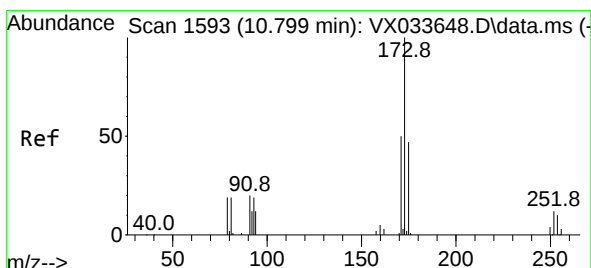
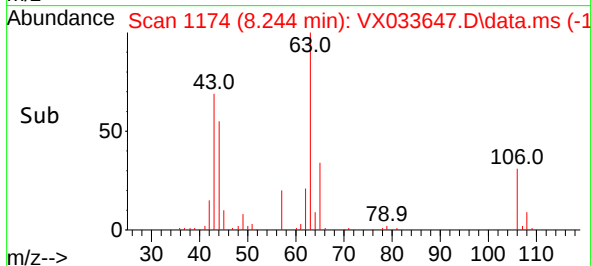
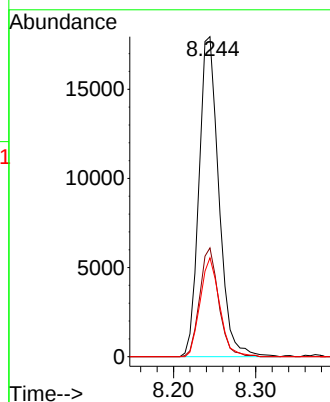
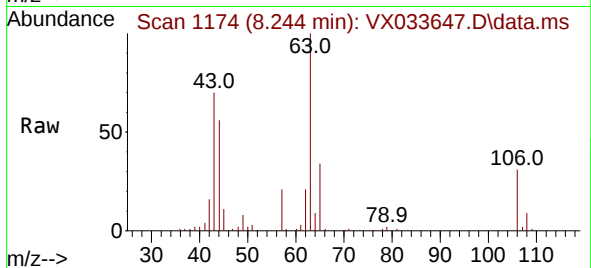
Tgt Ion: 63 Resp: 30119  
Ion Ratio Lower Upper  
63 100  
65 32.4 26.2 39.4  
106 30.3 24.0 36.0

Manual Integrations

APPROVED

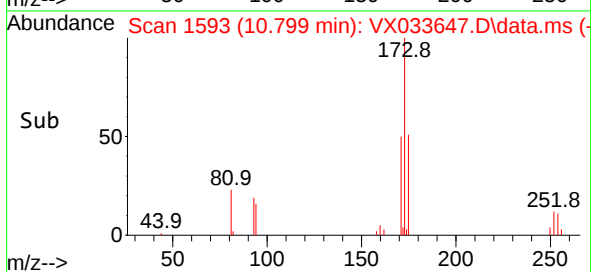
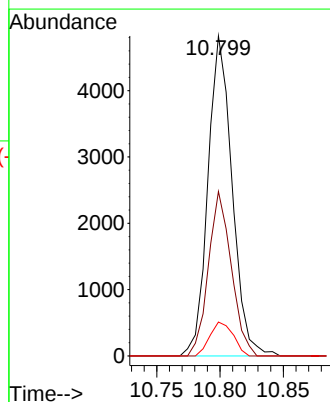
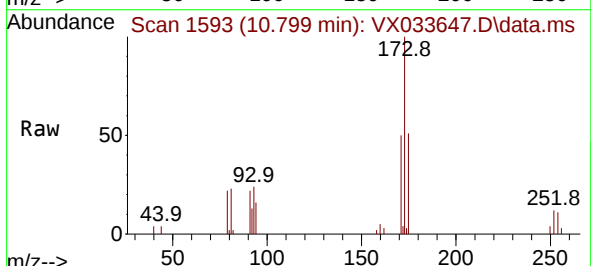
Reviewed By :John Carlone 01/09/2023

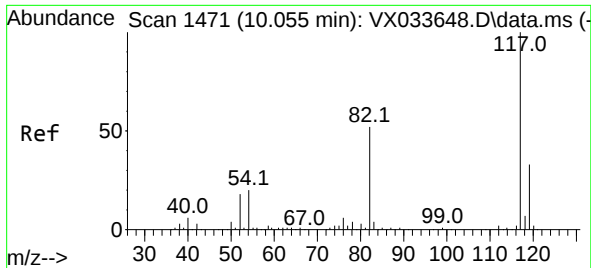
Supervised By :Mahesh Dadoda 01/09/2023



#56  
Bromoform  
Concen: 4.617 ug/l  
RT: 10.799 min Scan# 1593  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion:173 Resp: 6417  
Ion Ratio Lower Upper  
173 100  
175 48.6 38.2 57.4  
254 10.2 8.6 13.0





#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

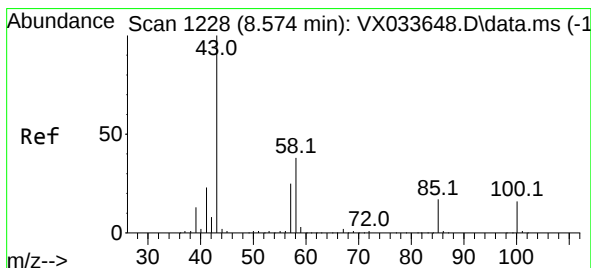
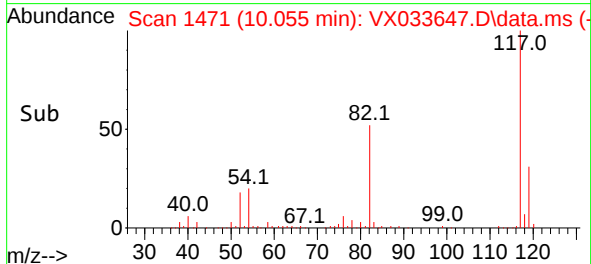
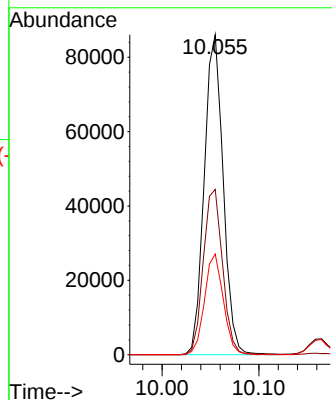
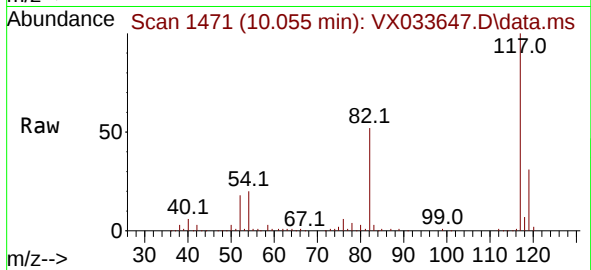
Tgt Ion:117 Resp: 117494  
Ion Ratio Lower Upper  
117 100  
82 52.7 41.9 62.9  
119 31.2 25.6 38.4

Manual Integrations

APPROVED

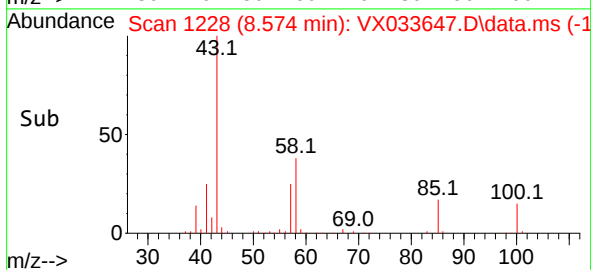
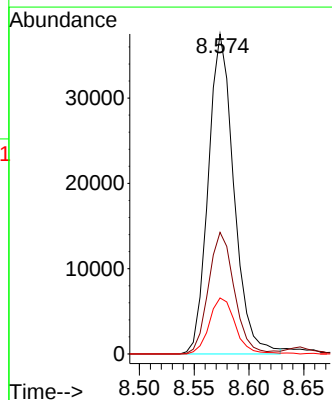
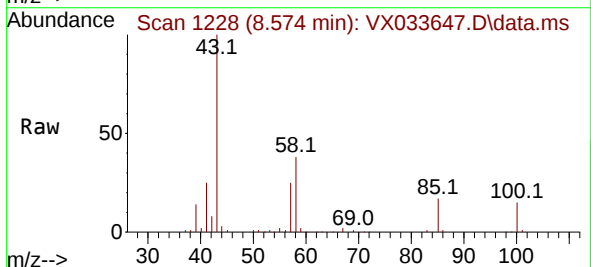
Reviewed By :John Carlone 01/09/2023

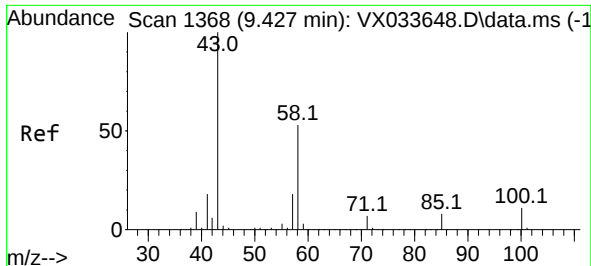
Supervised By :Mahesh Dadoda 01/09/2023



#58  
4-Methyl-2-Pentanone  
Concen: 30.867 ug/l  
RT: 8.574 min Scan# 1228  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion: 43 Resp: 61185  
Ion Ratio Lower Upper  
43 100  
58 38.1 30.2 45.4  
85 17.7 13.8 20.8





#59

2-Hexanone

Concen: 30.758 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 45719

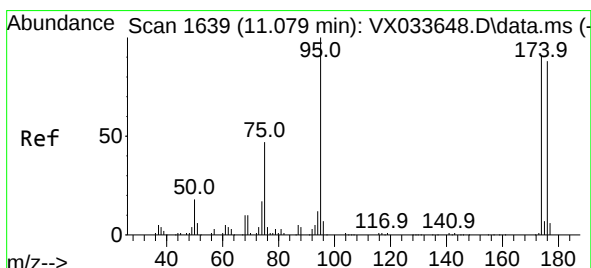
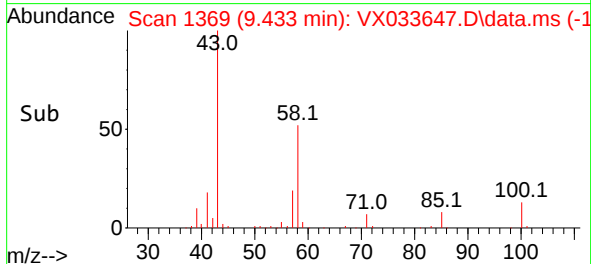
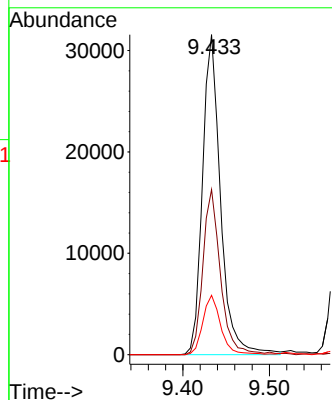
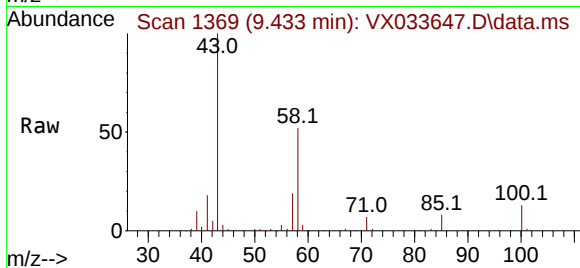
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 50.1  | 42.9  | 64.3  |
| 57  | 18.4  | 15.0  | 22.6  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/09/2023

Supervised By :Mahesh Dadoda 01/09/2023



#60

4-Bromofluorobenzene

Concen: 29.380 ug/l

RT: 11.079 min Scan# 1639

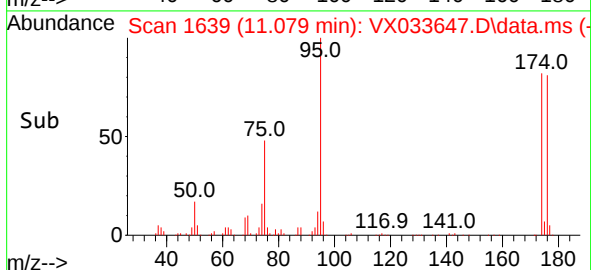
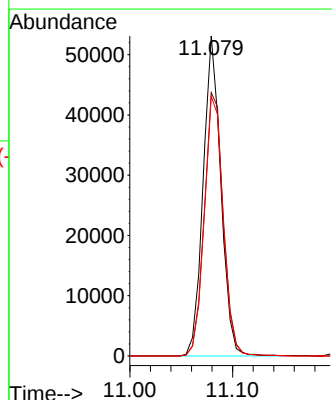
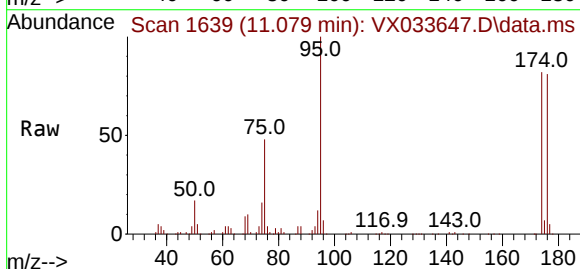
Delta R.T. -0.000 min

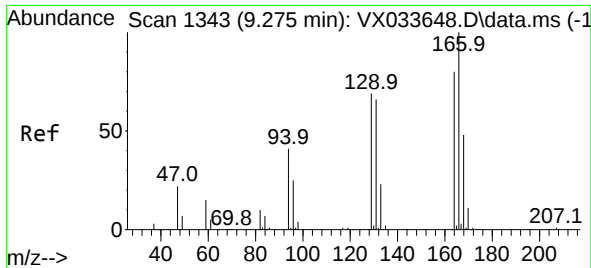
Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Tgt Ion: 95 Resp: 63557

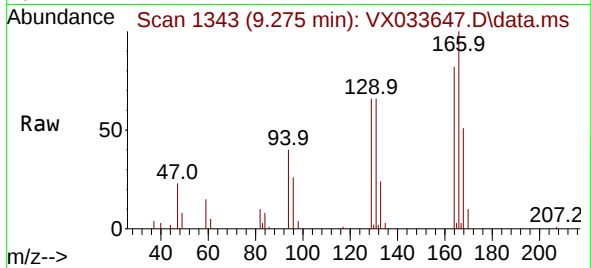
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 174 | 88.3  | 73.7  | 110.5 |
| 176 | 86.9  | 71.0  | 106.4 |





#61  
Tetrachloroethene  
Concen: 5.665 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

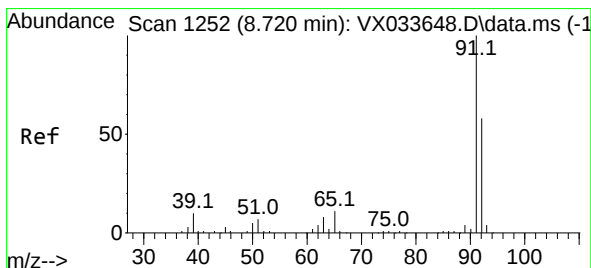
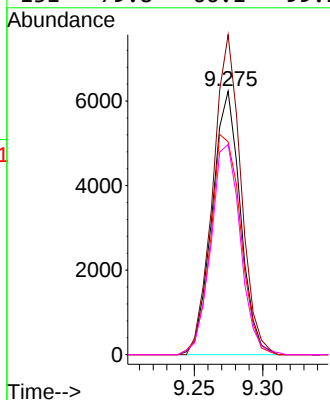
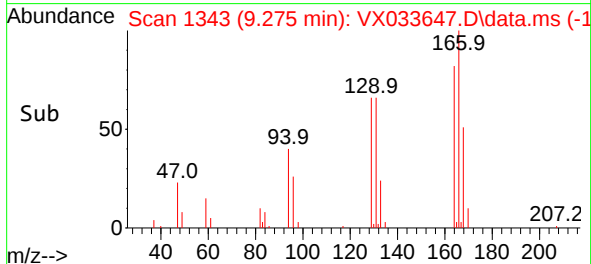
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion:164 Resp: 893  
Ion Ratio Lower Upper  
164 100  
166 121.4 100.2 150.4  
129 80.7 68.8 103.2  
131 79.8 66.1 99.1

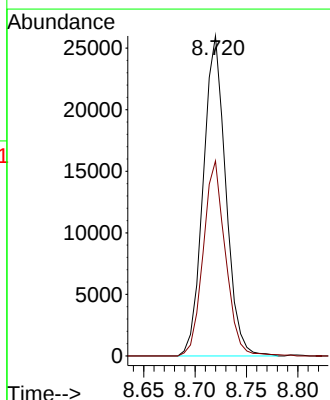
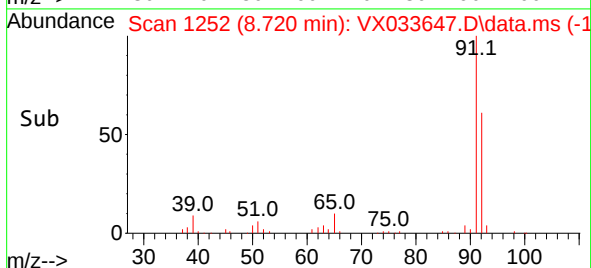
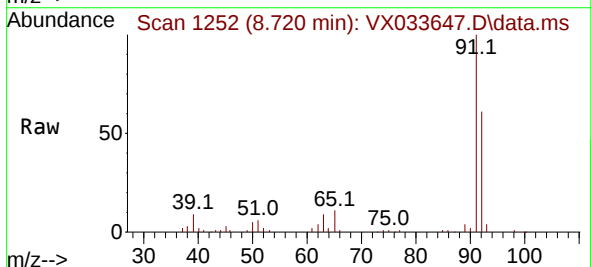
Manual Integrations  
APPROVED

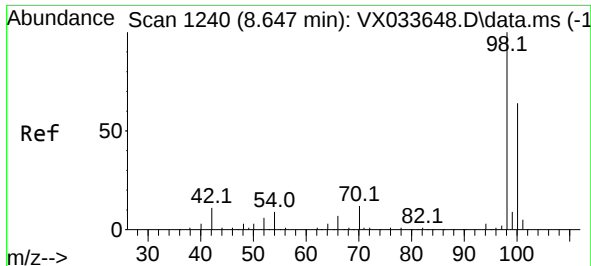
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#62  
Toluene  
Concen: 5.554 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

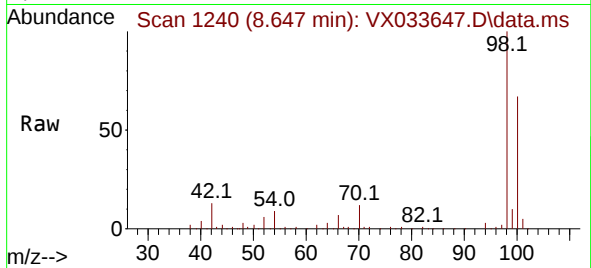
Tgt Ion: 91 Resp: 39611  
Ion Ratio Lower Upper  
91 100  
92 60.3 45.8 68.8





#63  
Toluene-d8  
Concen: 29.289 ug/l  
RT: 8.647 min Scan# 113540  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

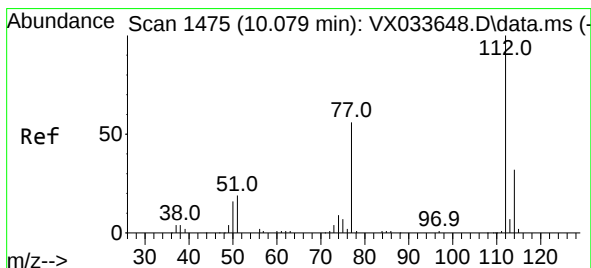
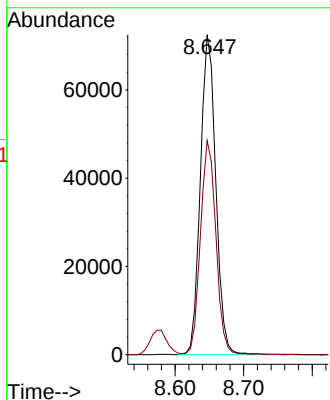
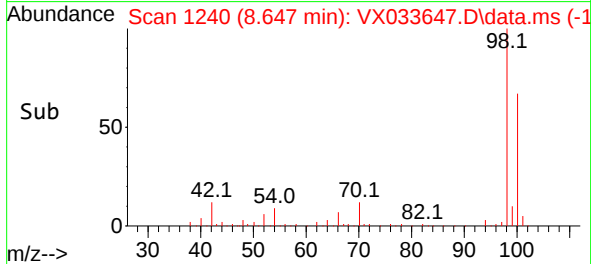
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005



Tgt Ion: 98 Resp: 113540  
Ion Ratio Lower Upper  
98 100  
100 67.2 53.1 79.7

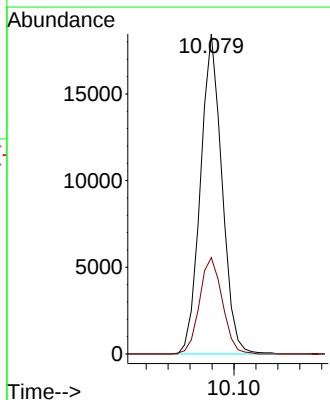
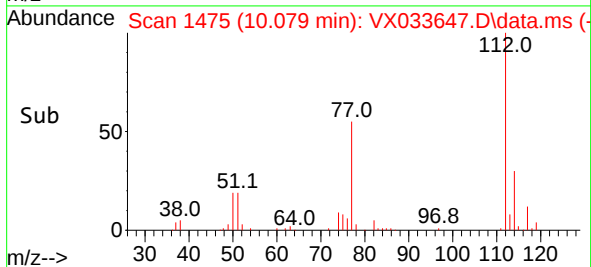
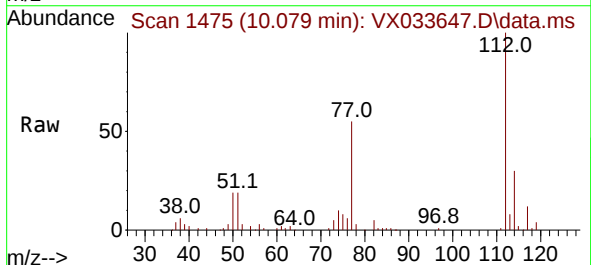
Manual Integrations  
APPROVED

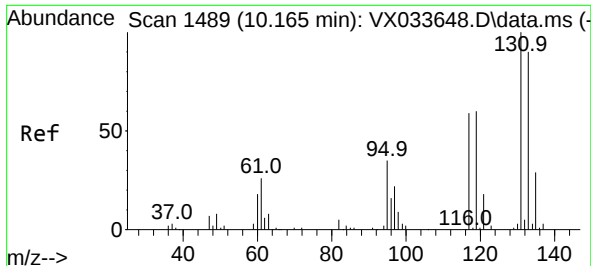
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#64  
Chlorobenzene  
Concen: 5.552 ug/l  
RT: 10.079 min Scan# 1475  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

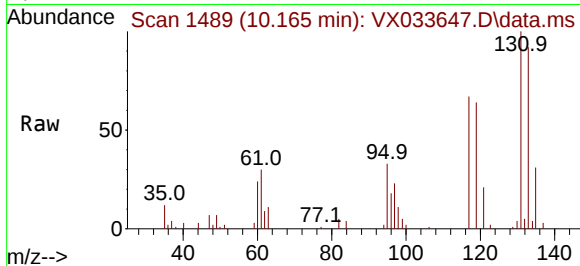
Tgt Ion:112 Resp: 25122  
Ion Ratio Lower Upper  
112 100  
114 30.1 25.6 38.4





#65  
1,1,1,2-Tetrachloroethane  
Concen: 5.008 ug/l  
RT: 10.165 min Scan# 1489  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

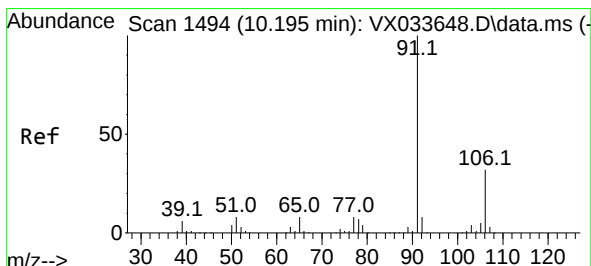
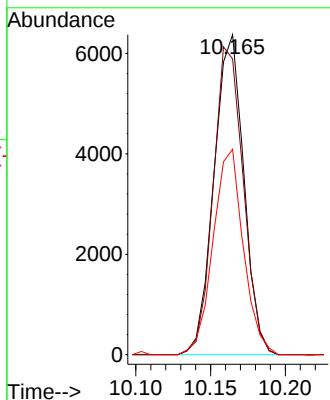
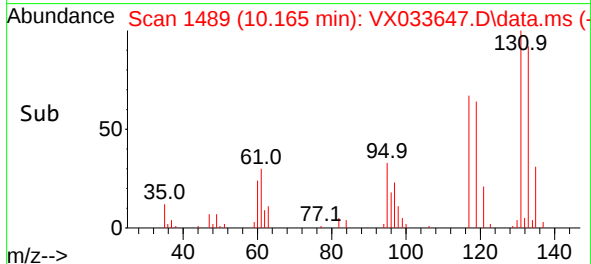
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



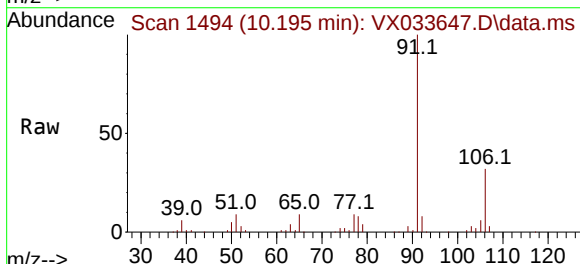
Tgt Ion:131 Resp: 8844  
Ion Ratio Lower Upper  
131 100  
133 96.6 0.0 187.6  
119 65.3 0.0 124.0

Manual Integrations  
APPROVED

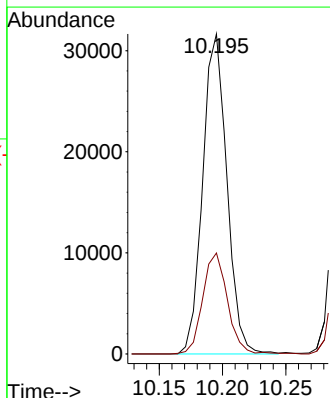
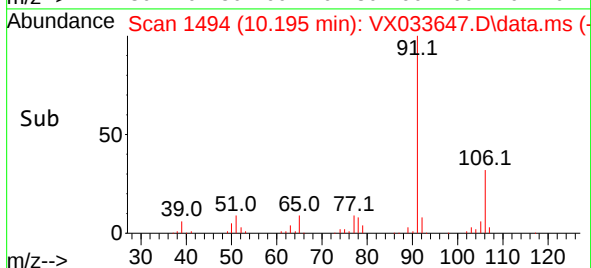
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023

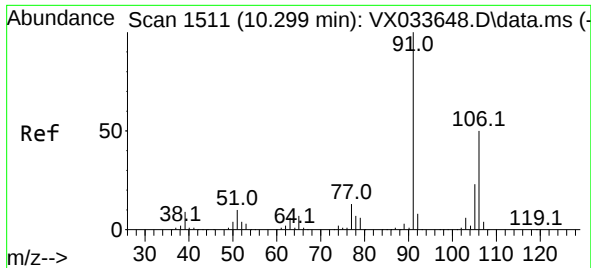


#66  
Ethyl Benzene  
Concen: 5.254 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41



Tgt Ion: 91 Resp: 42124  
Ion Ratio Lower Upper  
91 100  
106 31.4 25.2 37.8





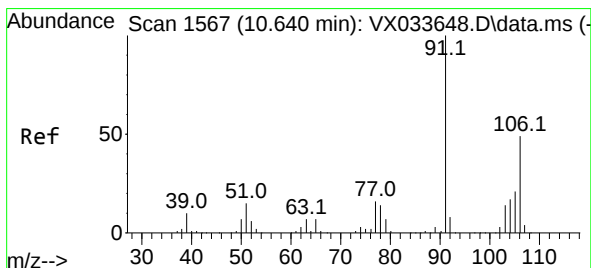
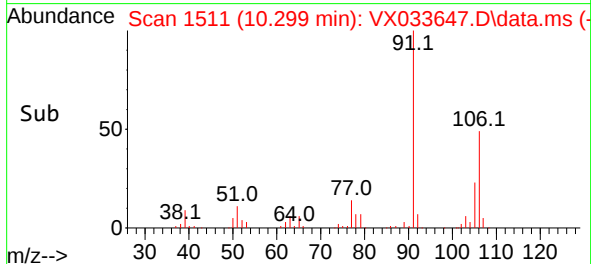
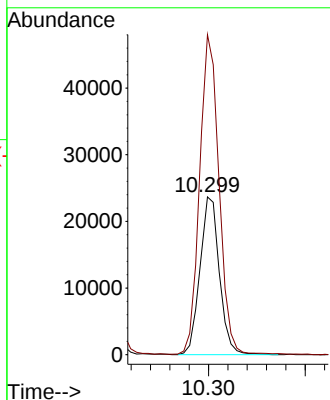
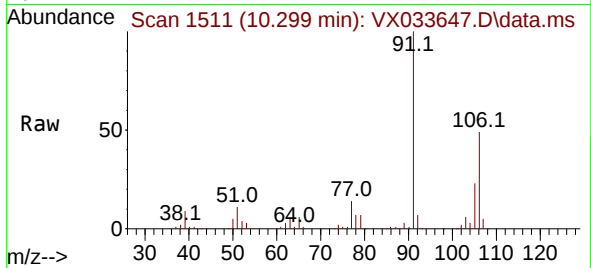
#67  
m/p-Xylenes  
Concen: 10.507 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion:106 Resp: 33109  
Ion Ratio Lower Upper  
106 100  
91 200.9 157.3 235.9

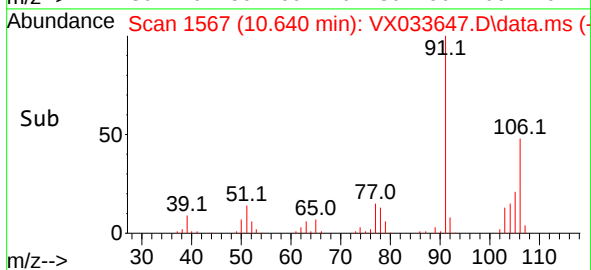
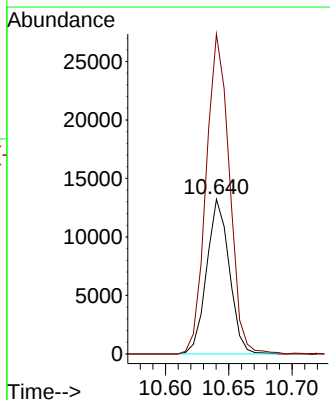
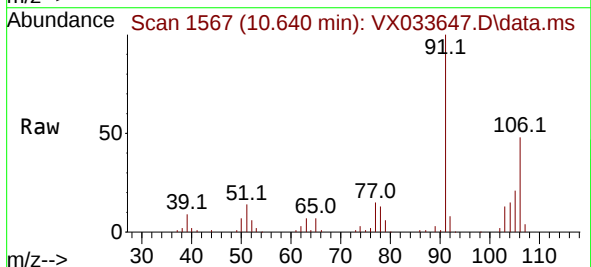
Manual Integrations  
APPROVED

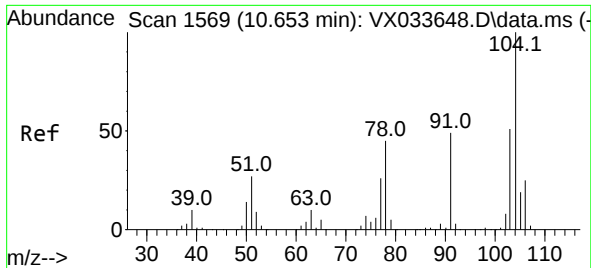
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#68  
o-Xylene  
Concen: 5.371 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion:106 Resp: 16487  
Ion Ratio Lower Upper  
106 100  
91 212.4 104.6 313.8





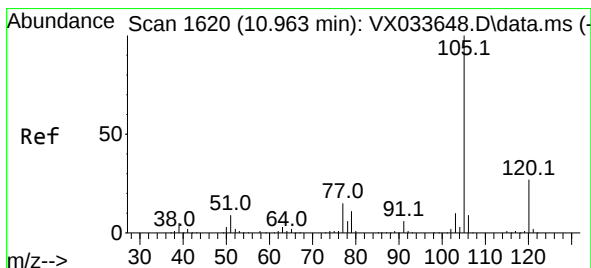
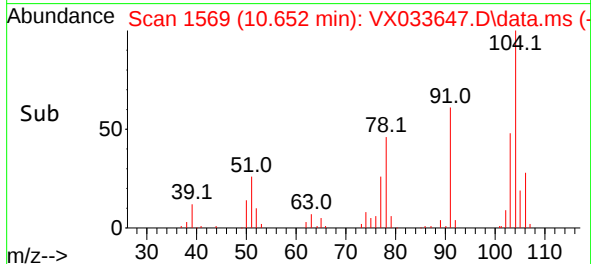
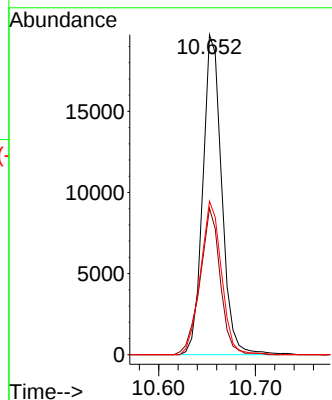
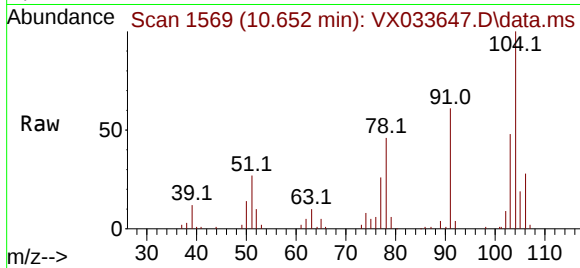
#69  
Styrene  
Concen: 5.282 ug/l  
RT: 10.652 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion:104 Resp: 2689  
Ion Ratio Lower Upper  
104 100  
78 48.5 39.3 58.9  
103 53.2 43.2 64.8

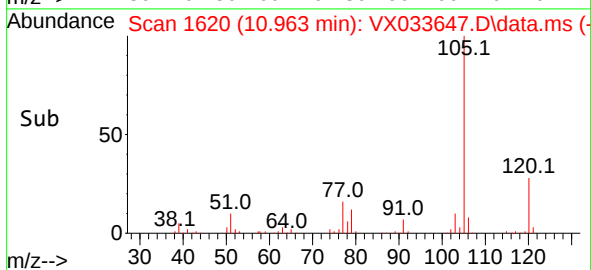
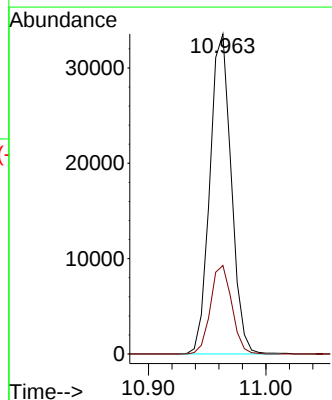
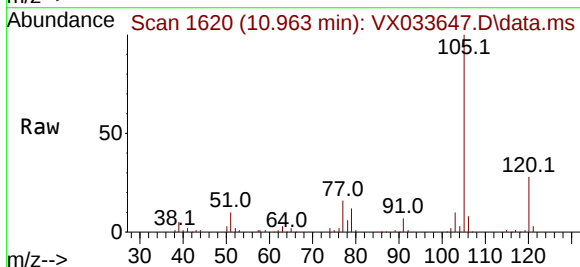
Manual Integrations  
APPROVED

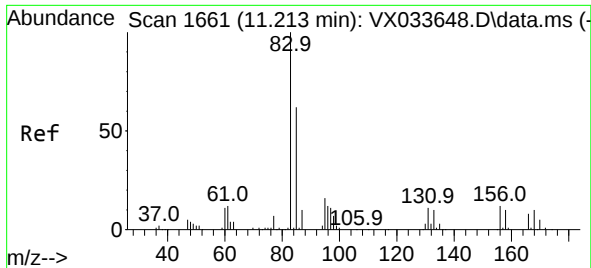
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#70  
Isopropylbenzene  
Concen: 5.254 ug/l  
RT: 10.963 min Scan# 1620  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion:105 Resp: 42553  
Ion Ratio Lower Upper  
105 100  
120 27.5 18.7 34.7





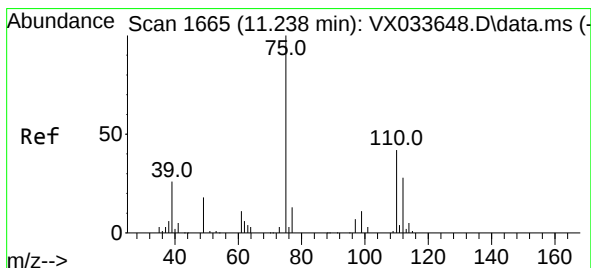
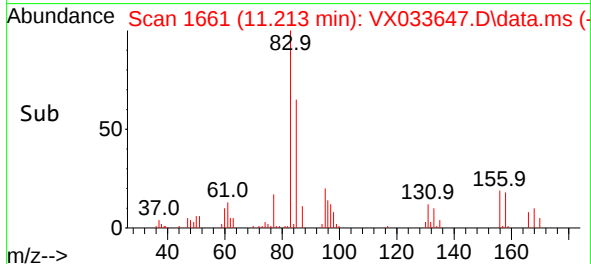
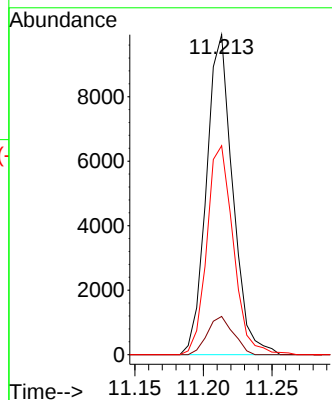
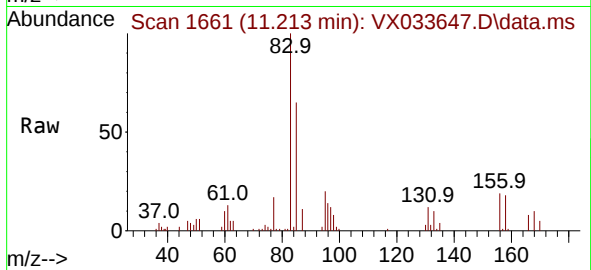
#71  
1,1,2,2-Tetrachloroethane  
Concen: 5.501 ug/l  
RT: 11.213 min Scan# 1661  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005

Tgt Ion: 83 Resp: 13250  
Ion Ratio Lower Upper  
83 100  
131 11.8 5.4 16.2  
85 65.8 32.4 97.0

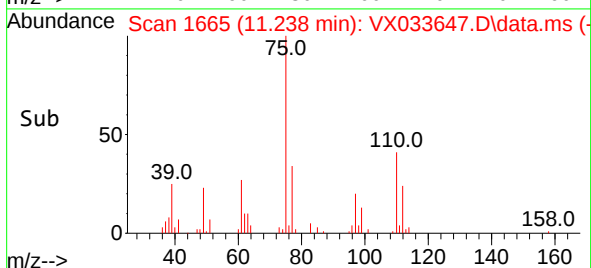
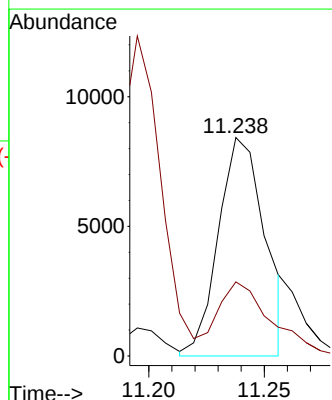
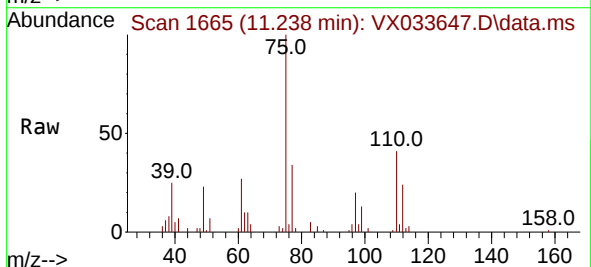
Manual Integrations  
APPROVED

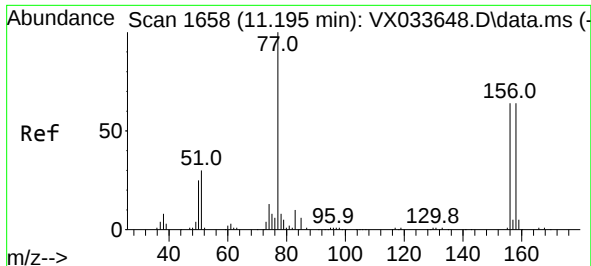
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#72  
1,2,3-Trichloropropane  
Concen: 5.520 ug/l m  
RT: 11.238 min Scan# 1665  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

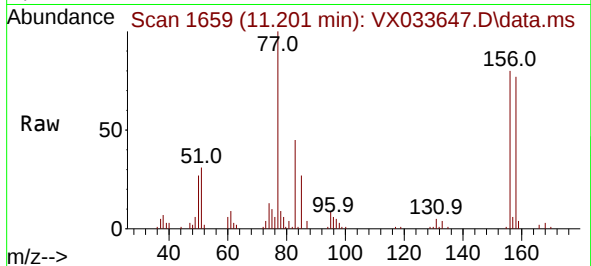
Tgt Ion: 75 Resp: 11804  
Ion Ratio Lower Upper  
75 100  
77 39.6 0.0 74.6





#73  
Bromobenzene  
Concen: 5.488 ug/l  
RT: 11.201 min Scan# 1659  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

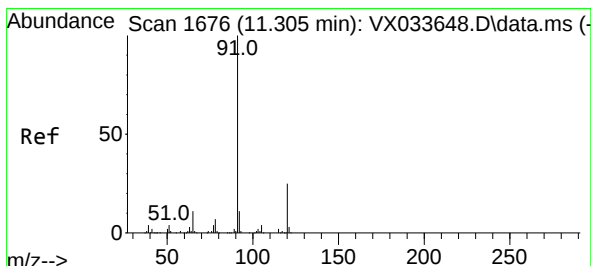
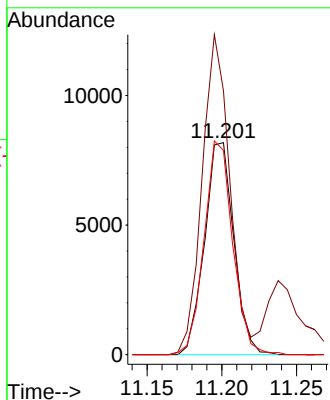
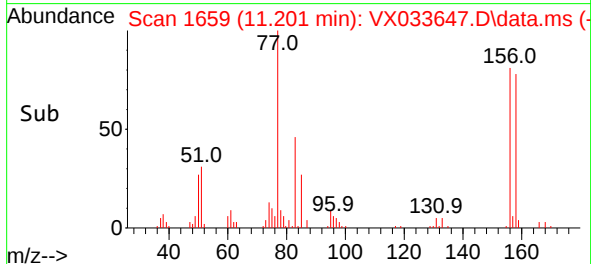
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion: 156 Resp: 1115  
Ion Ratio Lower Upper  
156 100  
77 141.8 0.0 287.2  
158 98.6 0.0 196.2

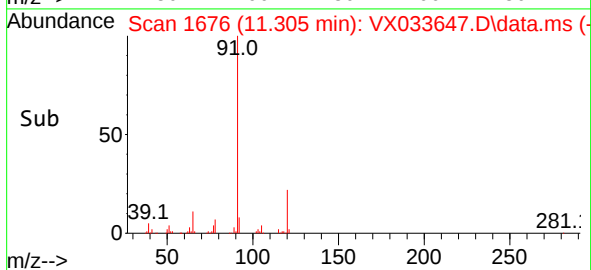
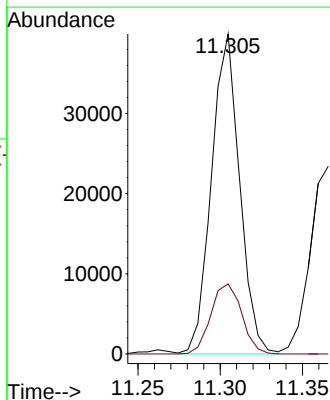
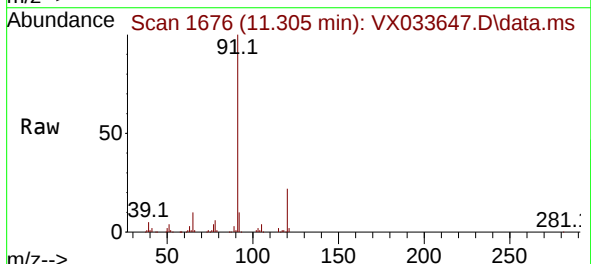
Manual Integrations  
APPROVED

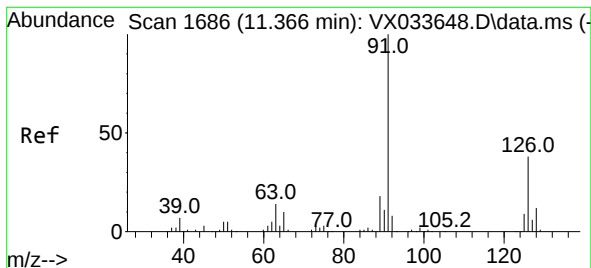
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#74  
n-propylbenzene  
Concen: 5.131 ug/l  
RT: 11.305 min Scan# 1676  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion: 91 Resp: 47551  
Ion Ratio Lower Upper  
91 100  
120 23.9 0.0 48.8





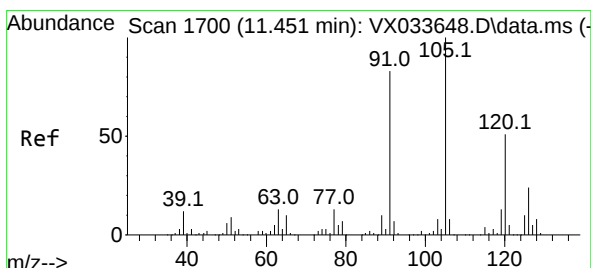
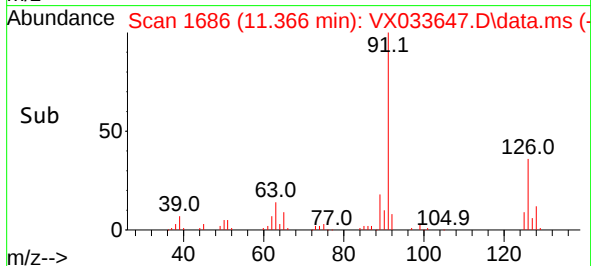
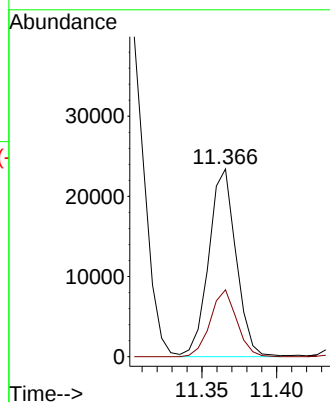
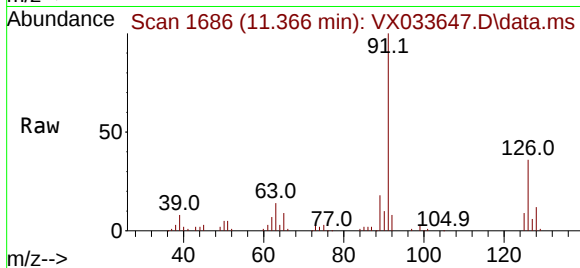
#75  
2-Chlorotoluene  
Concen: 5.350 ug/l  
RT: 11.366 min Scan# 1686  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005

Tgt Ion: 91 Resp: 2976  
Ion Ratio Lower Upper  
91 100  
126 34.4 0.0 72.0

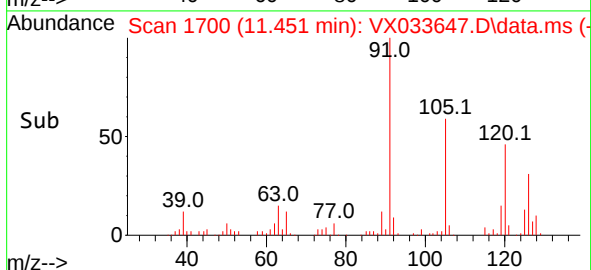
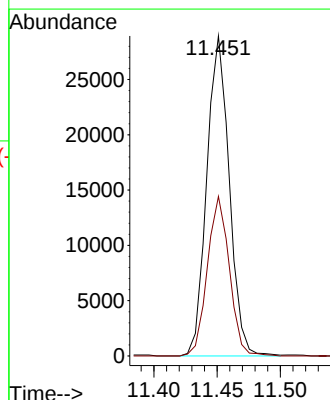
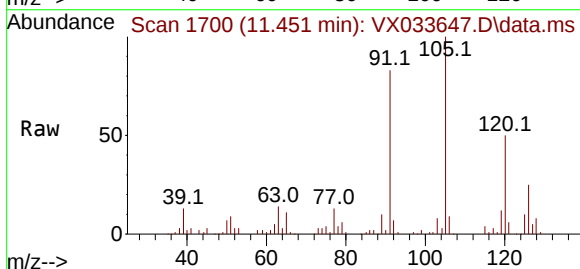
Manual Integrations  
APPROVED

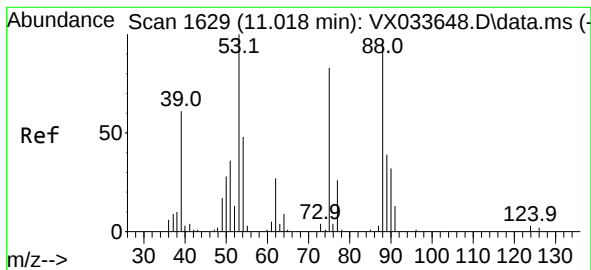
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#76  
1,3,5-Trimethylbenzene  
Concen: 5.272 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

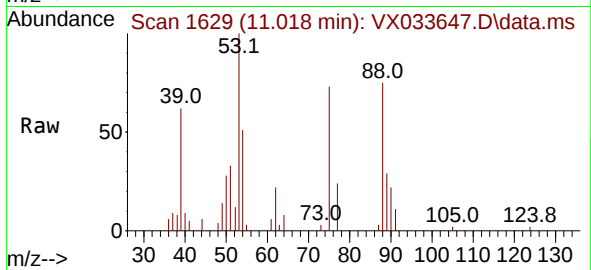
Tgt Ion:105 Resp: 35810  
Ion Ratio Lower Upper  
105 100  
120 48.7 0.0 100.4





#77  
t-1,4-Dichloro-2-butene  
Concen: 3.964 ug/l  
RT: 11.018 min Scan# 1629  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

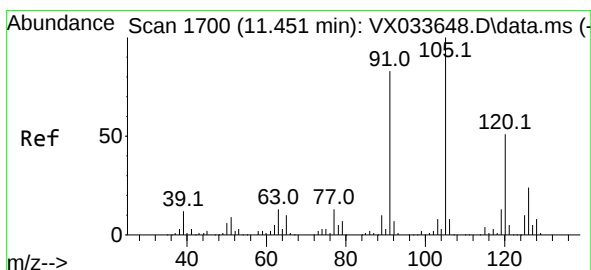
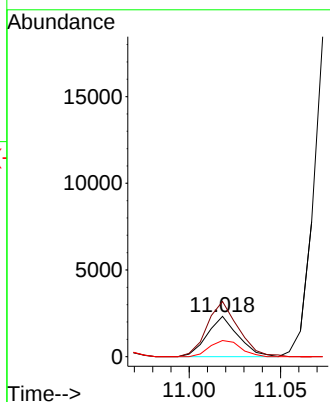
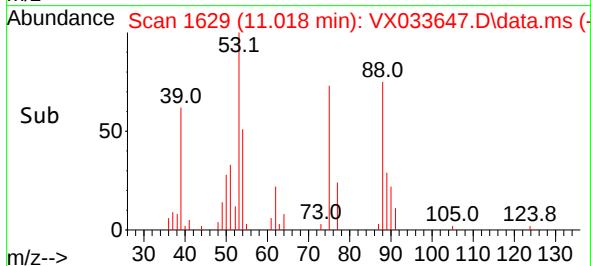
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005



Tgt Ion: 75 Resp: 2738  
Ion Ratio Lower Upper  
75 100  
53 137.1 60.2 180.6  
89 39.9 23.2 69.6

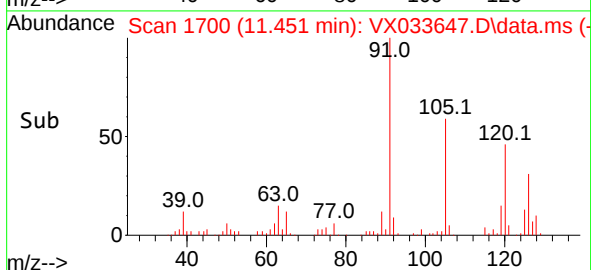
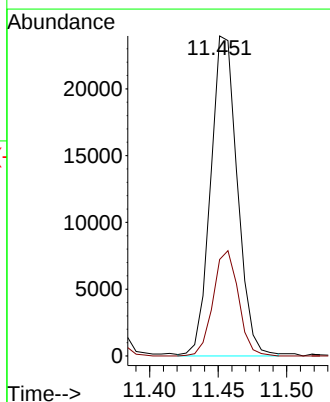
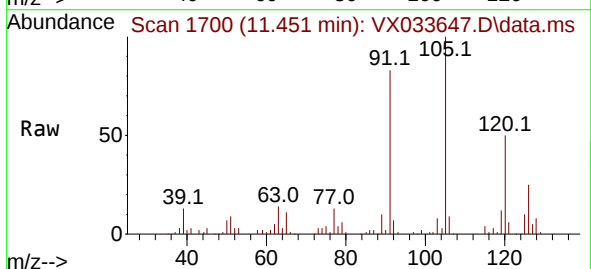
Manual Integrations  
APPROVED

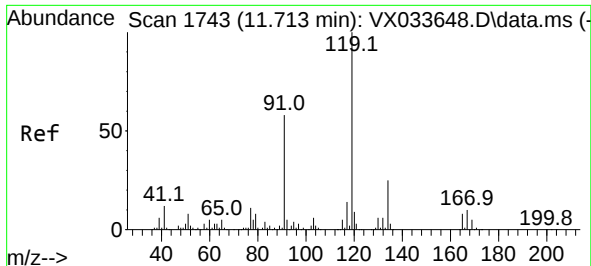
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#78  
4-Chlorotoluene  
Concen: 5.138 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion: 91 Resp: 32557  
Ion Ratio Lower Upper  
91 100  
126 31.1 0.0 63.6





#79

tert-butylbenzene

Concen: 5.340 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC005

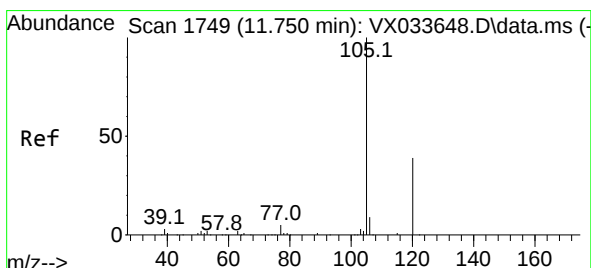
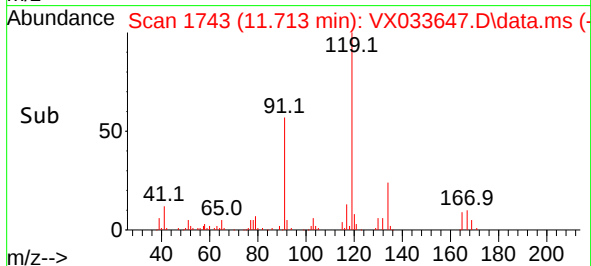
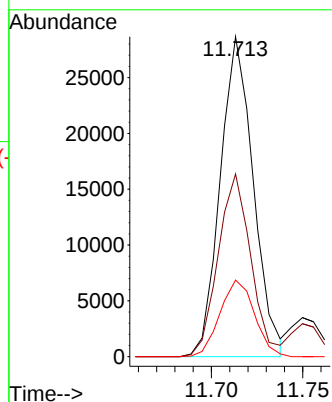
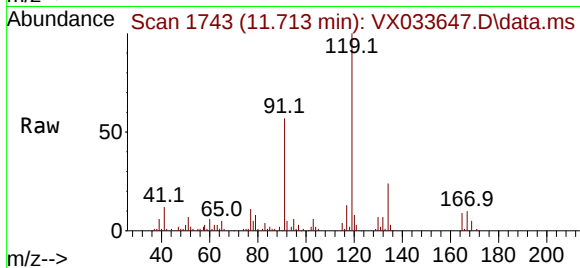
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 119   | Resp: | 36178 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 91        | 56.5  | 0.0   | 111.0 |
| 134       | 24.9  | 0.0   | 49.2  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/09/2023

Supervised By :Mahesh Dadoda 01/09/2023



#80

1,2,4-Trimethylbenzene

Concen: 5.206 ug/l

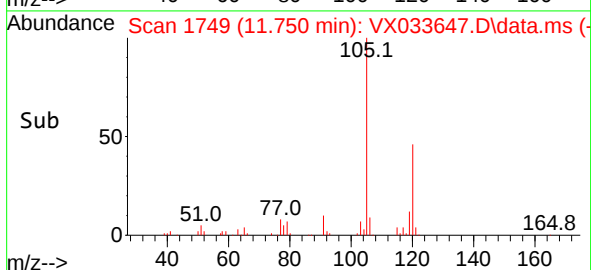
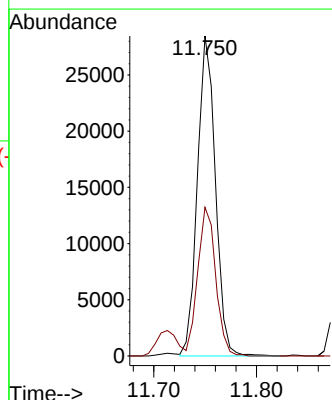
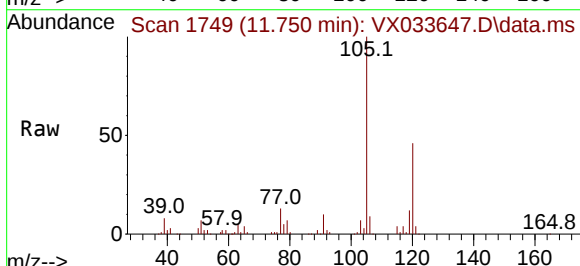
RT: 11.750 min Scan# 1749

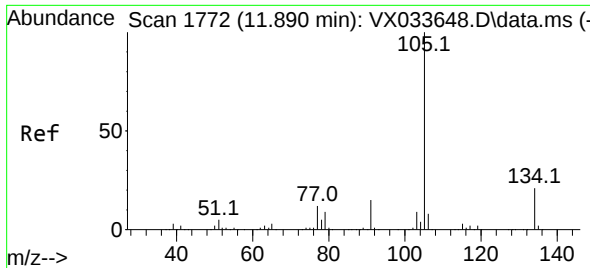
Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 34745 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 46.4  | 0.0   | 91.2  |





#81  
 sec-Butylbenzene  
 Concen: 5.258 ug/l  
 RT: 11.890 min Scan# 1772  
 Delta R.T. -0.000 min  
 Lab File: VX033647.D  
 Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

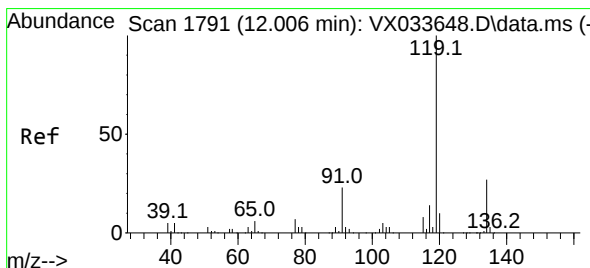
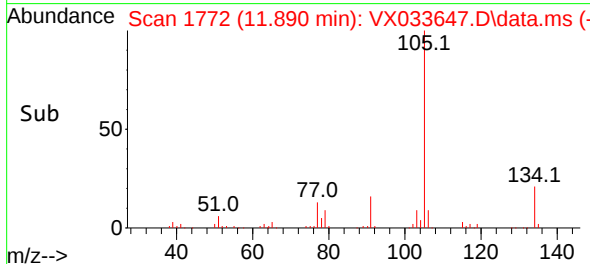
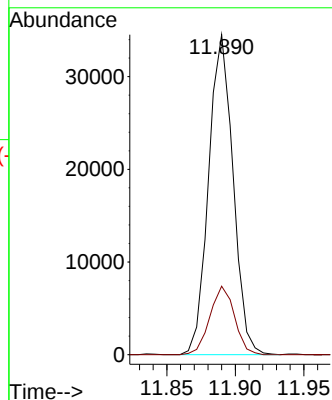
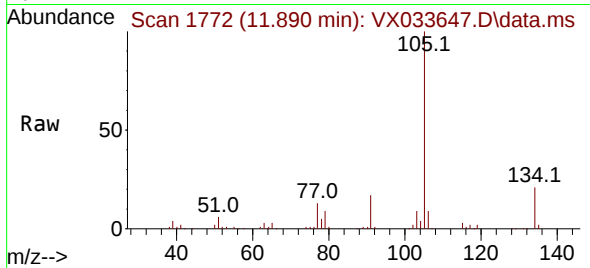
ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 4284  
 Ion Ratio Lower Upper  
 105 100  
 134 21.5 0.0 43.2

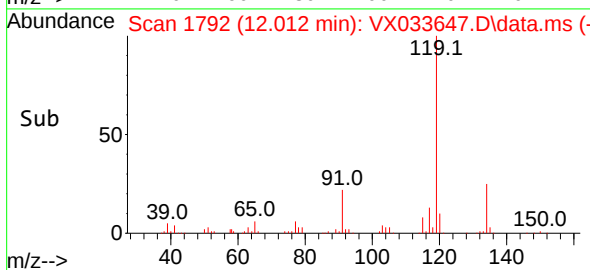
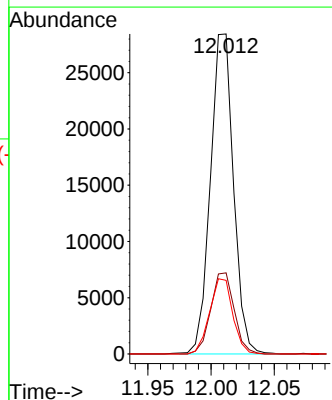
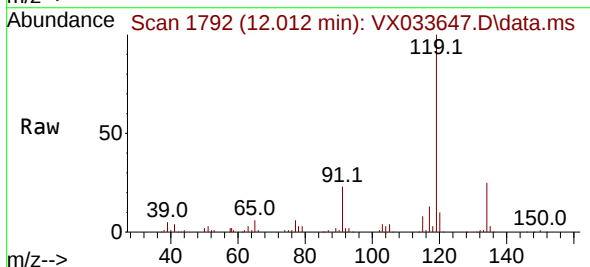
Manual Integrations  
 APPROVED

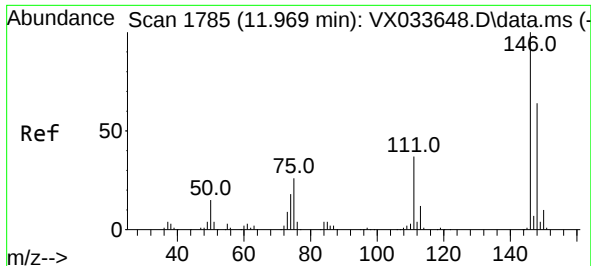
Reviewed By :John Carlone 01/09/2023  
 Supervised By :Mahesh Dadoda 01/09/2023



#82  
 p-Isopropyltoluene  
 Concen: 5.190 ug/l  
 RT: 12.012 min Scan# 1792  
 Delta R.T. 0.006 min  
 Lab File: VX033647.D  
 Acq: 06 Jan 2023 22:41

Tgt Ion:119 Resp: 36162  
 Ion Ratio Lower Upper  
 119 100  
 134 25.7 0.0 54.4  
 91 23.5 0.0 45.2





#83

1,3-Dichlorobenzene

Concen: 5.511 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC005

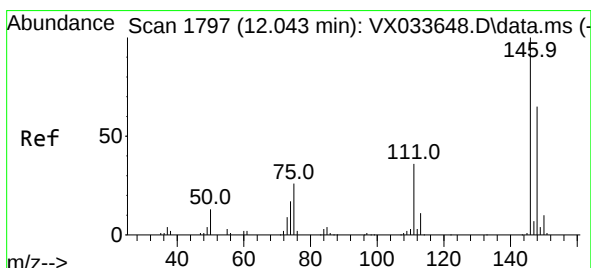
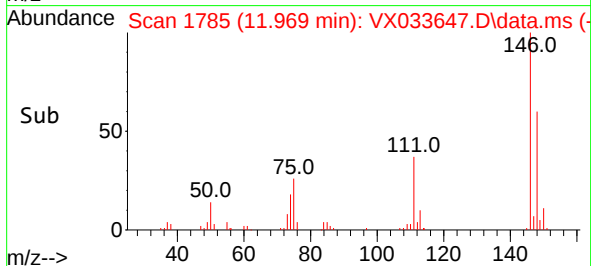
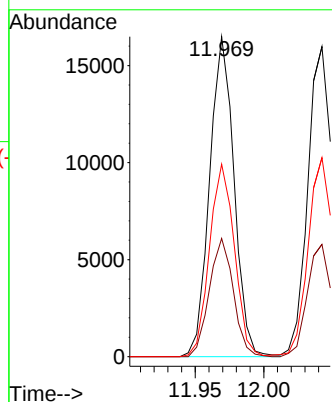
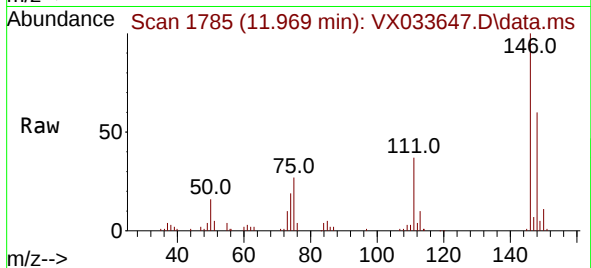
Tgt Ion:146 Resp: 20480  
 Ion Ratio Lower Upper  
 146 100  
 111 36.3 18.8 56.3  
 148 61.2 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/09/2023

Supervised By :Mahesh Dadoda 01/09/2023



#84

1,4-Dichlorobenzene

Concen: 5.488 ug/l

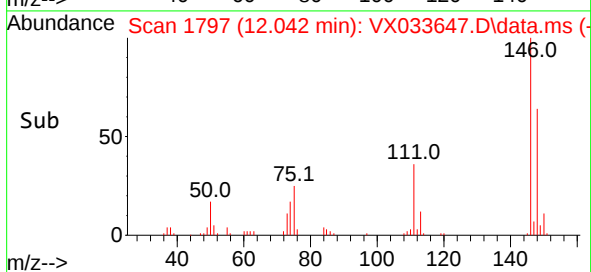
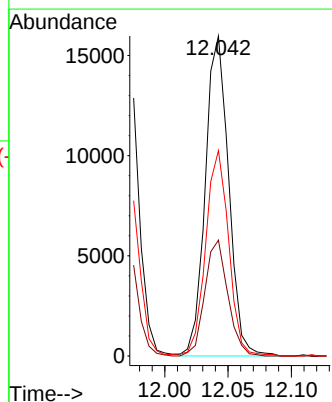
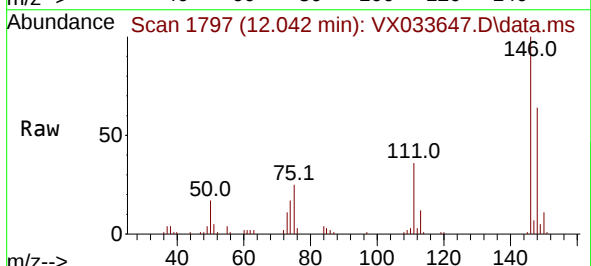
RT: 12.042 min Scan# 1797

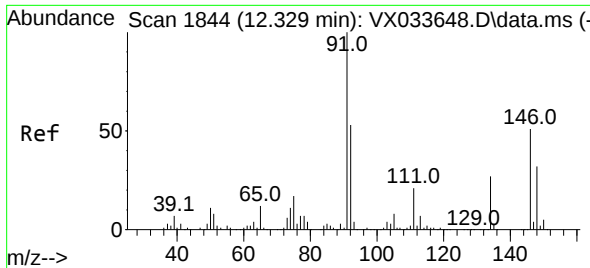
Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

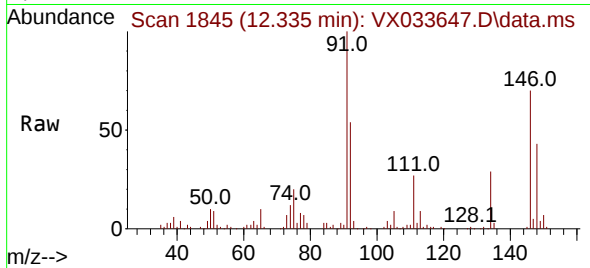
Tgt Ion:146 Resp: 20542  
 Ion Ratio Lower Upper  
 146 100  
 111 35.7 18.3 54.9  
 148 63.1 31.9 95.7





#85  
n-Butylbenzene  
Concen: 4.935 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. 0.006 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

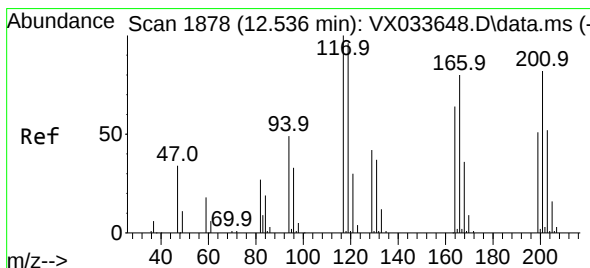
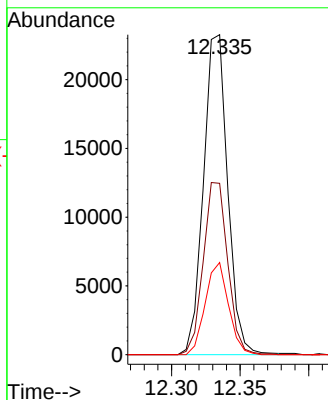
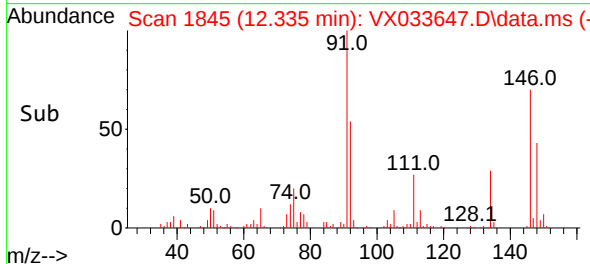
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDICC005



Tgt Ion: 91 Resp: 28604  
Ion Ratio Lower Upper  
91 100  
92 54.3 0.0 108.2  
134 27.7 0.0 55.4

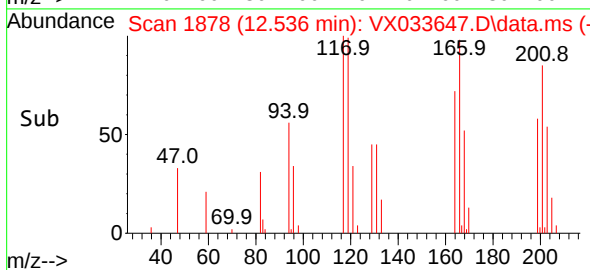
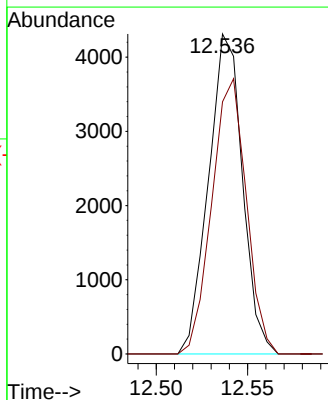
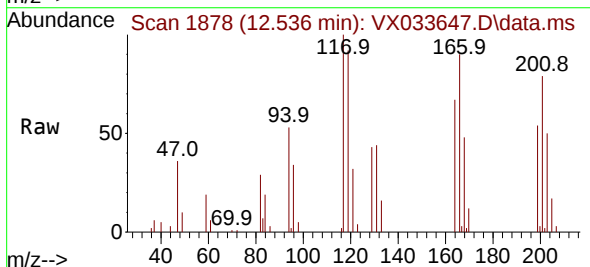
Manual Integrations  
APPROVED

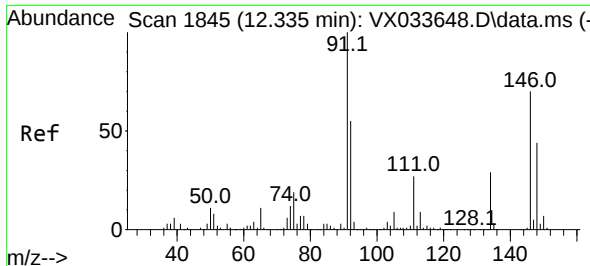
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#86  
Hexachloroethane  
Concen: 4.629 ug/l  
RT: 12.536 min Scan# 1878  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

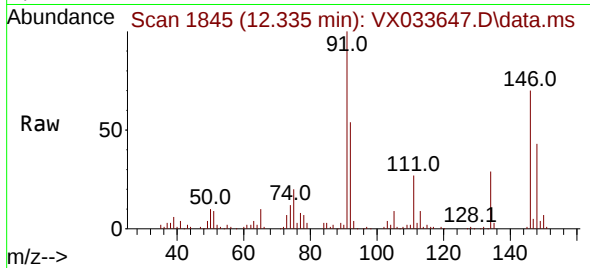
Tgt Ion:117 Resp: 5583  
Ion Ratio Lower Upper  
117 100  
201 87.2 45.0 135.0





#87  
1,2-Dichlorobenzene  
Concen: 5.458 ug/l  
RT: 12.335 min Scan# 1845  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

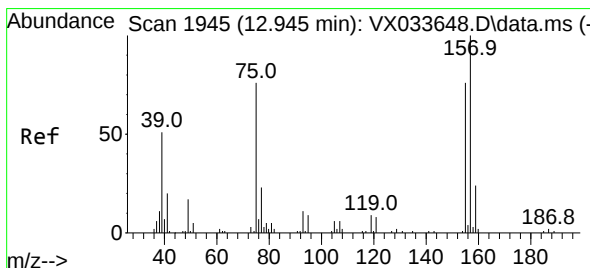
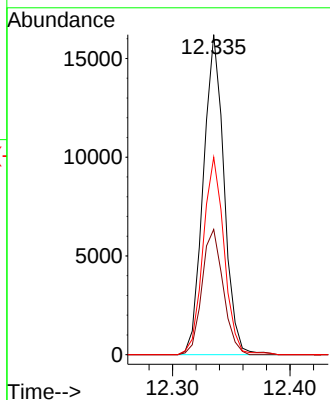
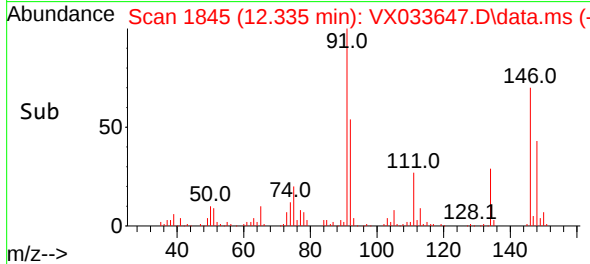
Instrument : MSVOA\_X  
ClientSampleId : VSTDIC005



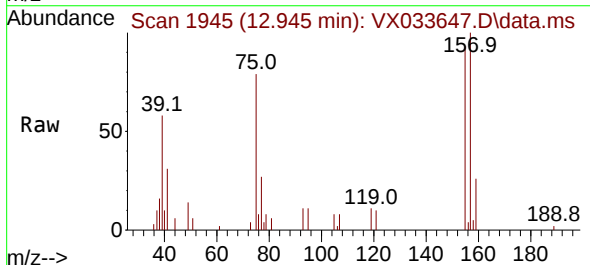
Tgt Ion: 146 Resp: 19870  
Ion Ratio Lower Upper  
146 100  
111 39.9 19.7 59.0  
148 62.1 31.9 95.9

Manual Integrations  
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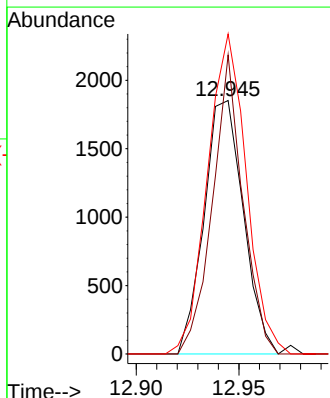
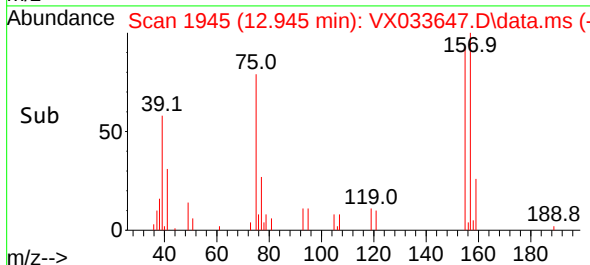
Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023

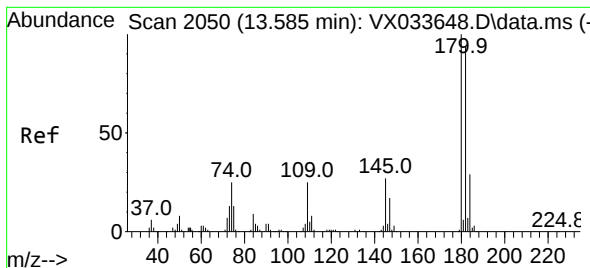


#88  
1,2-Dibromo-3-Chloropropane  
Concen: 4.794 ug/l  
RT: 12.945 min Scan# 1945  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41



Tgt Ion: 75 Resp: 2470  
Ion Ratio Lower Upper  
75 100  
155 91.0 77.6 116.4  
157 124.4 98.0 147.0





#89

1,2,4-Trichlorobenzene

Concen: 5.242 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

Instrument :

MSVOA\_X

ClientSampleId :

VSTDICC005

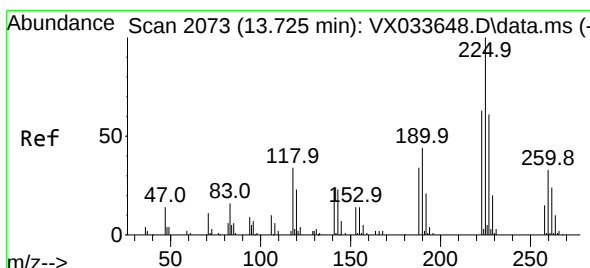
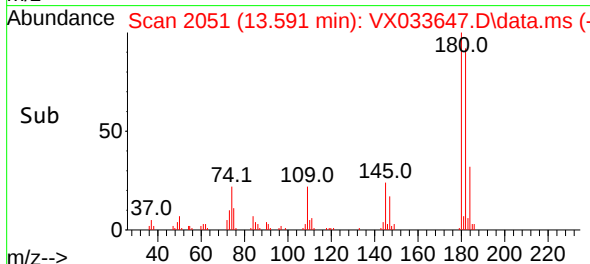
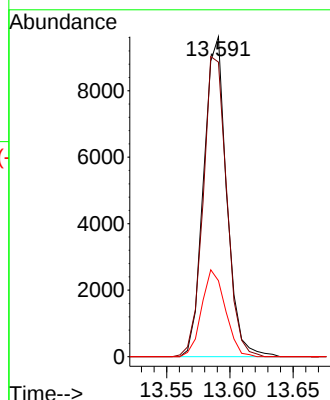
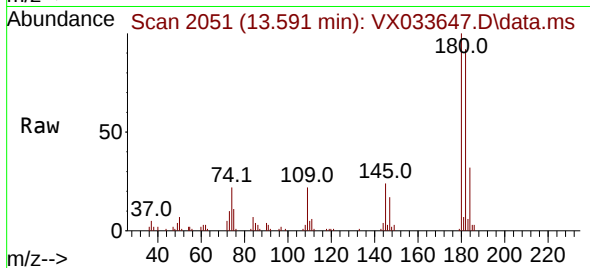
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 12174      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.0  | 76.7 115.1 |
| 145         | 28.0  | 21.8 32.6  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/09/2023

Supervised By :Mahesh Dadoda 01/09/2023



#90

Hexachlorobutadiene

Concen: 6.436 ug/l

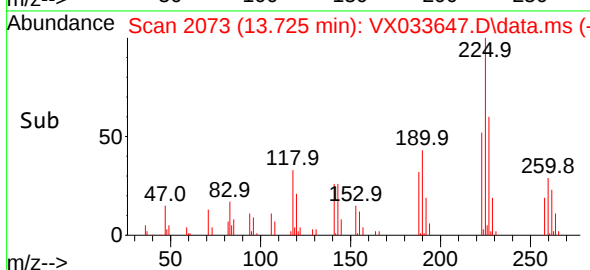
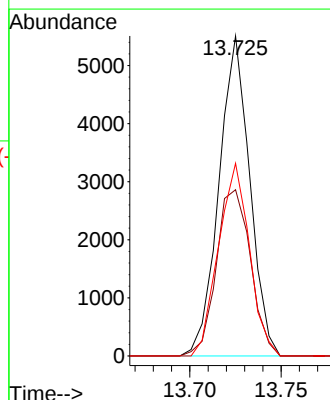
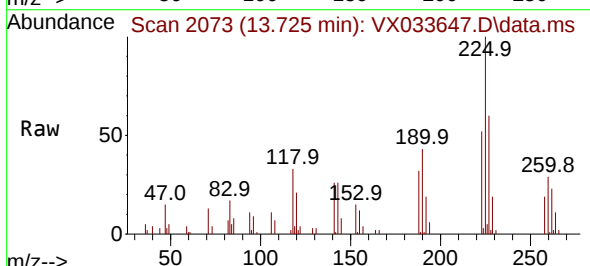
RT: 13.725 min Scan# 2073

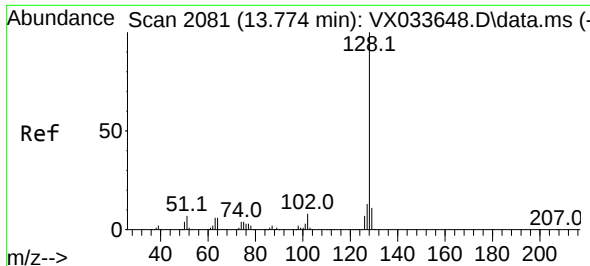
Delta R.T. -0.000 min

Lab File: VX033647.D

Acq: 06 Jan 2023 22:41

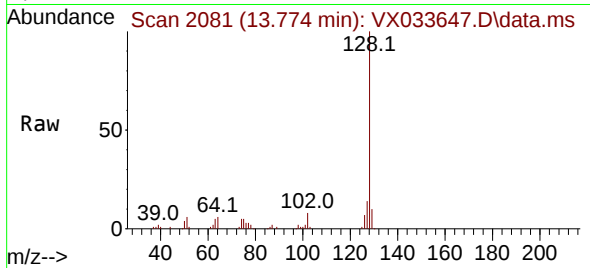
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 6462      |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 57.8  | 0.0 127.0 |
| 227         | 60.6  | 0.0 123.0 |





#91  
Naphthalene  
Concen: 4.872 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

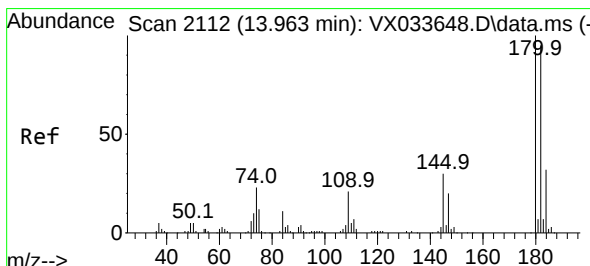
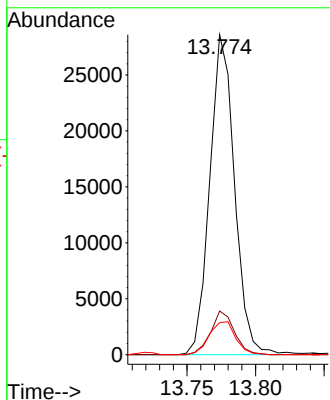
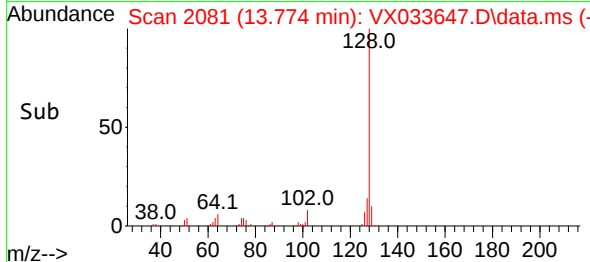
Instrument :  
MSVOA\_X  
ClientSampleId :  
VSTDIC005



Tgt Ion:128 Resp: 3588  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.4 15.6  
129 11.1 8.8 13.2

Manual Integrations  
APPROVED

Reviewed By :John Carlone 01/09/2023  
Supervised By :Mahesh Dadoda 01/09/2023



#92  
1,2,3-Trichlorobenzene  
Concen: 5.416 ug/l  
RT: 13.963 min Scan# 2112  
Delta R.T. -0.000 min  
Lab File: VX033647.D  
Acq: 06 Jan 2023 22:41

Tgt Ion:180 Resp: 12553  
Ion Ratio Lower Upper  
180 100  
182 95.0 0.0 191.2  
145 31.6 0.0 60.4

