

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090723\  
 Data File : VN079175.D  
 Acq On : 07 Sep 2023 11:32  
 Operator : JC\MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC005

Quant Time: Sep 08 04:57:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090723W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 08 04:47:25 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 09/08/2023  
 Supervised By : Mahesh Dadoda 09/08/2023

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 7.818          | 128  | 32291      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.106          | 114  | 174163     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.871         | 117  | 153327     | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.582          | 65   | 72568      | 29.868   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 99.567%  |        |          |
| 60) 4-Bromofluorobenzene     | 12.853         | 95   | 62991      | 27.882   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 92.933%  |        |          |
| 63) Toluene-d8               | 10.571         | 98   | 215742     | 30.108   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 100.367% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.130          | 85   | 8722       | 4.836    | ug/l   | 98       |
| 3) Chloromethane             | 2.359          | 50   | 8981       | 4.966    | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.512          | 62   | 9794       | 5.474    | ug/l   | 94       |
| 5) Bromomethane              | 2.942          | 94   | 5958       | 5.418    | ug/l   | 82       |
| 6) Chloroethane              | 3.112          | 64   | 5501       | 5.020    | ug/l # | 76       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 10622      | 4.987    | ug/l   | 94       |
| 8) Diethyl Ether             | 3.965          | 74   | 3659       | 4.685    | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.377          | 101  | 5727       | 5.284    | ug/l # | 31       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 5344       | 4.698    | ug/l # | 74       |
| 11) Methyl Iodide            | 4.589          | 142  | 6477       | 4.521    | ug/l   | 93       |
| 12) Methyl Acetate           | 5.042          | 43   | 12795m     | 5.495    | ug/l   |          |
| 13) Acrolein                 | 4.177          | 56   | 6039       | 25.012   | ug/l # | 68       |
| 14) Acrylonitrile            | 5.736          | 53   | 19044m     | 27.283   | ug/l   |          |
| 15) Acetone                  | 4.442          | 58   | 4490m      | 22.133   | ug/l   |          |
| 16) Carbon Disulfide         | 4.712          | 76   | 16514      | 4.913    | ug/l   | 98       |
| 17) Allyl chloride           | 5.030          | 41   | 8311       | 5.448    | ug/l   | 94       |
| 18) Methylene Chloride       | 5.283          | 84   | 7468       | 4.895    | ug/l   | 93       |
| 19) trans-1,2-Dichloroethene | 5.794          | 96   | 6292       | 4.421    | ug/l # | 80       |
| 20) Diisopropyl ether        | 6.683          | 45   | 21332      | 3.908    | ug/l # | 86       |
| 21) 1,1-Dichloroethane       | 6.577          | 63   | 13153      | 4.114    | ug/l   | 97       |
| 22) cis-1,2-Dichloroethene   | 7.494          | 96   | 11800      | 5.302    | ug/l   | 100      |
| 23) tert-Butyl Alcohol       | 5.536          | 59   | 7640m      | 25.539   | ug/l   |          |
| 24) Methyl tert-Butyl Ether  | 5.812          | 73   | 20854      | 4.645    | ug/l # | 87       |
| 25) Chloroform               | 7.971          | 83   | 19683      | 5.106    | ug/l   | 95       |
| 26) Cyclohexane              | 8.259          | 56   | 13513      | 4.662    | ug/l # | 96       |
| 29) 1,1-Dichloropropene      | 8.377          | 75   | 13636      | 4.883    | ug/l   | 97       |
| 30) 2-Butanone               | 7.494          | 43   | 36665      | 26.105   | ug/l # | 57       |
| 31) 2,2-Dichloropropane      | 7.500          | 77   | 13846      | 4.971    | ug/l   | 97       |
| 32) 1,1,1-Trichloroethane    | 8.171          | 97   | 16453      | 5.001    | ug/l   | 99       |
| 33) Carbon Tetrachloride     | 8.365          | 117  | 13717      | 6.618    | ug/l   | 97       |
| 34) Benzene                  | 8.612          | 78   | 43596      | 4.914    | ug/l # | 87       |
| 35) Methacrylonitrile        | 7.788          | 41   | 7533       | 4.981    | ug/l   | 89       |
| 36) 1,2-Dichloroethane       | 8.682          | 62   | 15009      | 5.130    | ug/l   | 98       |
| 37) Trichloroethene          | 9.359          | 130  | 10460      | 4.988    | ug/l   | 93       |
| 38) Methylcyclohexane        | 9.606          | 83   | 13109      | 4.696    | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.630          | 63   | 10717      | 4.683    | ug/l   | 99       |
| 40) Dibromomethane           | 9.712          | 93   | 7664       | 5.078    | ug/l   | 97       |
| 41) Bromodichloromethane     | 9.888          | 83   | 14472      | 4.810    | ug/l # | 81       |
| 42) Vinyl Acetate            | 6.618          | 43   | 63171      | 18.939   | ug/l   | 100      |

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 Operator : JC\MD  
 Sample : VSTDICC005  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

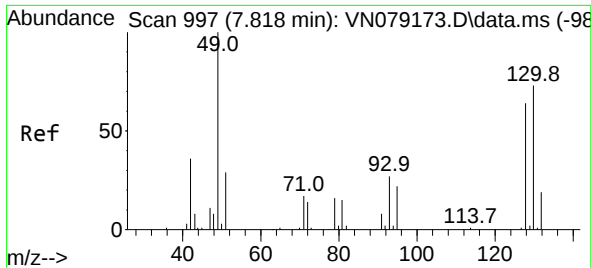
Reviewed By : John Carlone 09/08/2023  
 Supervised By : Mahesh Dadoda 09/08/2023

Quant Time: Sep 08 04:57:03 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N090723W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Sep 08 04:47:25 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 43) Ethyl Acetate             | 7.571  | 43   | 13012    | 4.878  | ug/l # | 92       |
| 44) Isopropyl Acetate         | 8.700  | 43   | 23987    | 4.999  | ug/l   | 97       |
| 45) 1,4-Dioxane               | 9.706  | 88   | 4672     | 97.816 | ug/l   | 95       |
| 46) Methyl methacrylate       | 9.688  | 41   | 10237    | 4.775  | ug/l   | 88       |
| 47) n-amyl Acetate            | 12.500 | 43   | 14962    | 4.434  | ug/l   | 97       |
| 48) t-1,3-Dichloropropene     | 10.841 | 75   | 15932    | 4.895  | ug/l   | 94       |
| 49) cis-1,3-Dichloropropene   | 10.318 | 75   | 16769    | 4.939  | ug/l   | 96       |
| 50) 1,1,2-Trichloroethane     | 11.018 | 97   | 10881    | 5.138  | ug/l   | 96       |
| 51) Ethyl methacrylate        | 10.882 | 69   | 15045    | 4.601  | ug/l   | 96       |
| 52) 1,3-Dichloropropane       | 11.171 | 76   | 18928    | 5.237  | ug/l   | 99       |
| 53) Dibromochloromethane      | 11.365 | 129  | 11506    | 5.182  | ug/l   | 100      |
| 54) 1,2-Dibromoethane         | 11.476 | 107  | 10964    | 5.105  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.165 | 63   | 29410    | 25.314 | ug/l   | 98       |
| 56) Bromoform                 | 12.582 | 173  | 7620     | 4.929  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.453 | 43   | 71603    | 25.449 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.200 | 43   | 52133    | 26.383 | ug/l   | 98       |
| 61) Tetrachloroethene         | 11.112 | 164  | 9158     | 5.489  | ug/l # | 89       |
| 62) Toluene                   | 10.635 | 91   | 45824    | 5.133  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.900 | 112  | 26853    | 5.156  | ug/l   | 97       |
| 65) 1,1,1,2-Tetrachloroethane | 11.971 | 131  | 10152    | 5.092  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.971 | 91   | 43317    | 4.819  | ug/l   | 96       |
| 67) m/p-Xylenes               | 12.076 | 106  | 31570    | 9.334  | ug/l   | 97       |
| 68) o-Xylene                  | 12.406 | 106  | 16152    | 4.950  | ug/l   | 99       |
| 69) Styrene                   | 12.418 | 104  | 24371    | 4.684  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.700 | 105  | 40235    | 4.853  | ug/l   | 97       |
| 71) 1,1,2,2-Tetrachloroethane | 12.941 | 83   | 16524    | 5.328  | ug/l   | 95       |
| 72) 1,2,3-Trichloropropane    | 13.000 | 75   | 15010m   | 5.316  | ug/l   |          |
| 73) Bromobenzene              | 12.982 | 156  | 10292    | 4.969  | ug/l   | 96       |
| 74) n-propylbenzene           | 13.041 | 91   | 43931    | 4.650  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.129 | 91   | 29239    | 4.827  | ug/l   | 99       |
| 76) 1,3,5-Trimethylbenzene    | 13.176 | 105  | 32175    | 4.693  | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.747 | 75   | 4437     | 4.829  | ug/l   | 93       |
| 78) 4-Chlorotoluene           | 13.229 | 91   | 26555    | 4.643  | ug/l   | 95       |
| 79) tert-butylbenzene         | 13.447 | 119  | 24373    | 4.331  | ug/l   | 97       |
| 80) 1,2,4-Trimethylbenzene    | 13.488 | 105  | 28422    | 4.341  | ug/l   | 99       |
| 81) sec-Butylbenzene          | 13.623 | 105  | 35680    | 4.634  | ug/l   | 99       |
| 82) p-Isopropyltoluene        | 13.735 | 119  | 27454    | 4.514  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.741 | 146  | 15602    | 4.744  | ug/l   | 99       |
| 84) 1,4-Dichlorobenzene       | 13.817 | 146  | 13631    | 4.419  | ug/l   | 96       |
| 85) n-Butylbenzene            | 14.065 | 91   | 20059    | 4.331  | ug/l   | 98       |
| 86) Hexachloroethane          | 14.341 | 117  | 5825     | 4.838  | ug/l   | 94       |
| 87) 1,2-Dichlorobenzene       | 14.112 | 146  | 15546    | 4.790  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.723 | 75   | 2468     | 4.708  | ug/l   | 94       |
| 89) 1,2,4-Trichlorobenzene    | 15.847 | 180  | 5700     | 4.100  | ug/l   | 95       |
| 90) Hexachlorobutadiene       | 15.506 | 225  | 4403     | 5.228  | ug/l   | 96       |
| 91) Naphthalene               | 15.647 | 128  | 13823    | 3.808  | ug/l   | 98       |
| 92) 1,2,3-Trichlorobenzene    | 15.847 | 180  | 5700     | 4.100  | ug/l   | 95       |

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





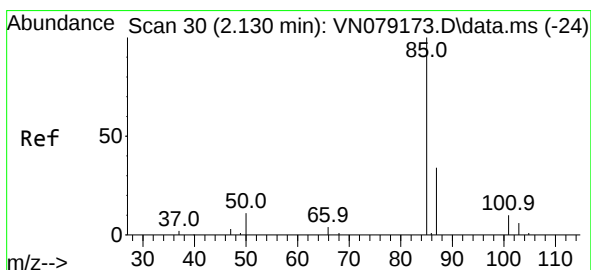
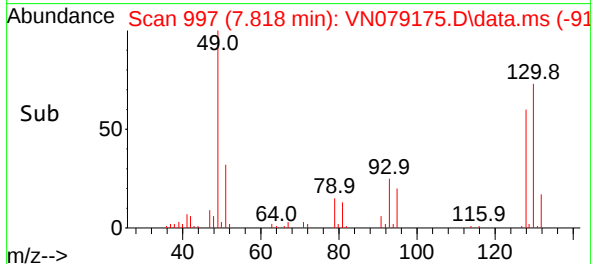
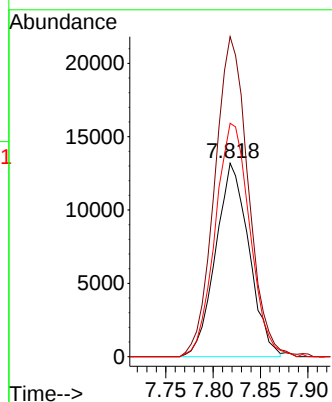
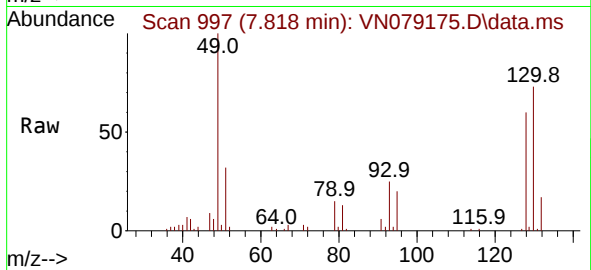
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.818 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion:128 Resp: 3229  
Ion Ratio Lower Upper  
128 100  
49 166.6 0.0 414.3  
130 125.5 0.0 311.0

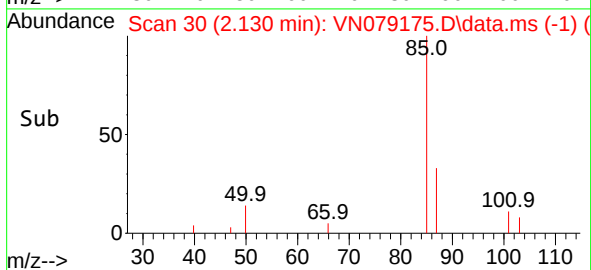
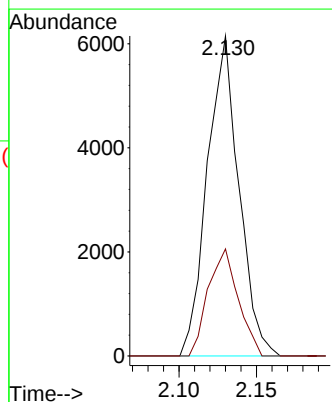
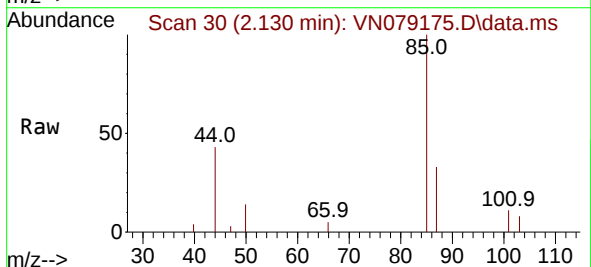
Manual Integrations  
APPROVED

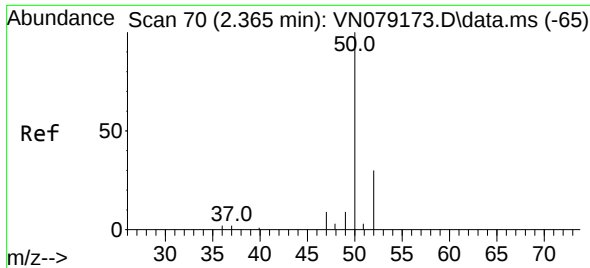
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#2  
Dichlorodifluoromethane  
Concen: 4.836 ug/l  
RT: 2.130 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion: 85 Resp: 8722  
Ion Ratio Lower Upper  
85 100  
87 33.5 17.3 51.7





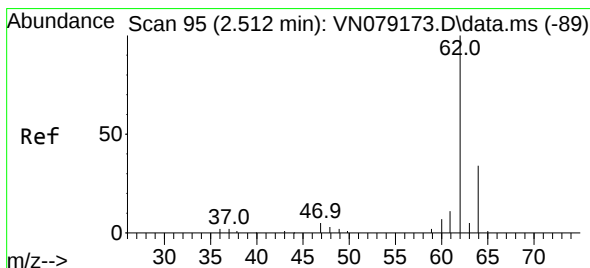
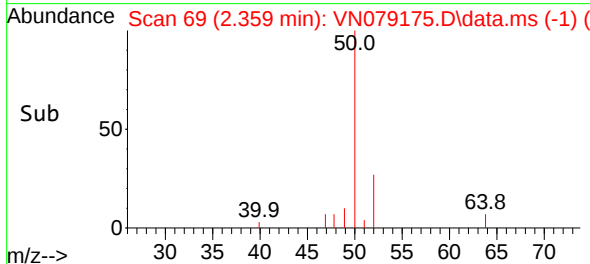
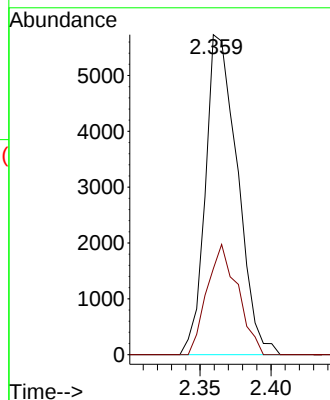
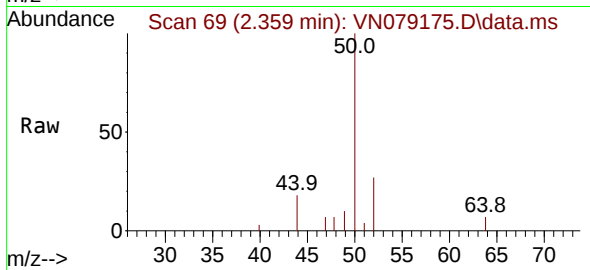
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Chloromethane  
Concen: 4.966 ug/l  
RT: 2.359 min Scan# 69  
Delta R.T. -0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 50 Resp: 898  
Ion Ratio Lower Upper  
50 100  
52 26.9 24.0 36.0

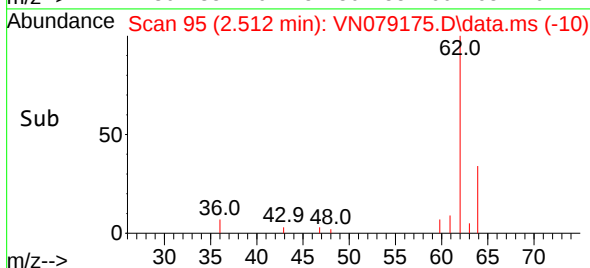
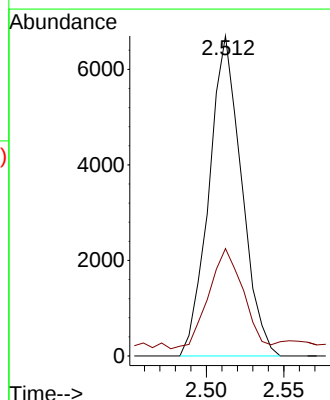
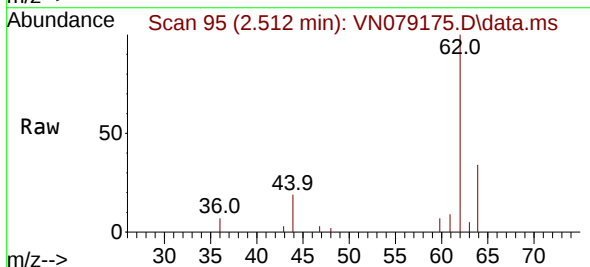
Manual Integrations  
APPROVED

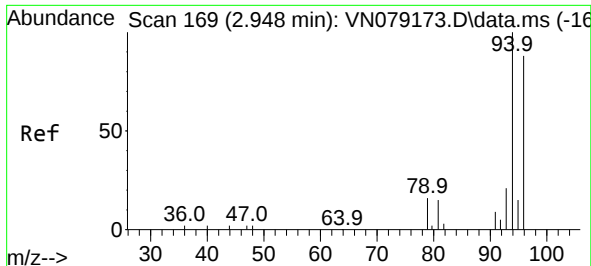
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#4  
Vinyl Chloride  
Concen: 5.474 ug/l  
RT: 2.512 min Scan# 95  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

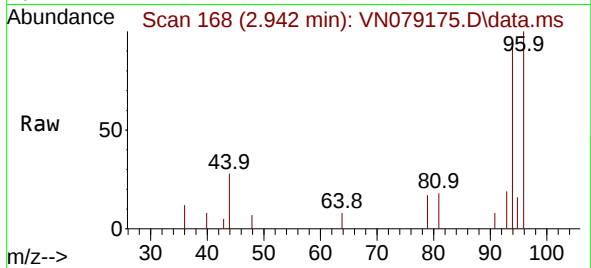
Tgt Ion: 62 Resp: 9794  
Ion Ratio Lower Upper  
62 100  
64 30.5 27.1 40.7





#5  
Bromomethane  
Concen: 5.418 ug/l  
RT: 2.942 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

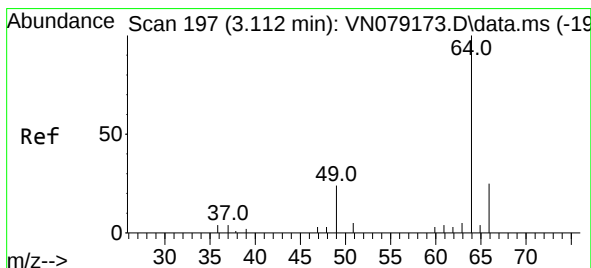
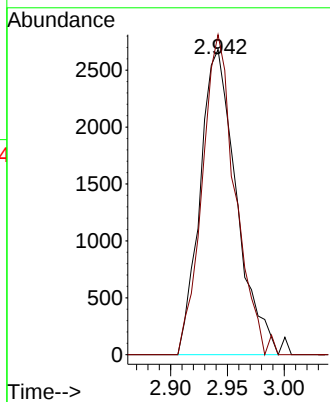
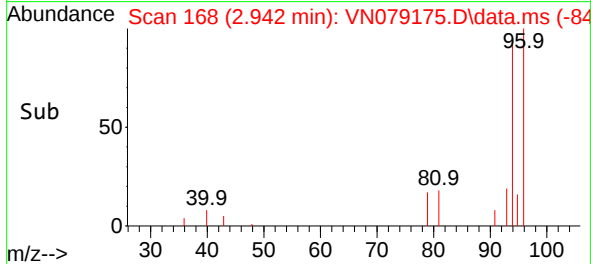
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



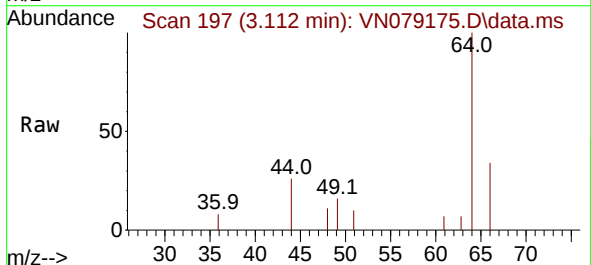
Tgt Ion: 94 Resp: 5958  
Ion Ratio Lower Upper  
94 100  
96 104.9 70.6 105.8

Manual Integrations  
APPROVED

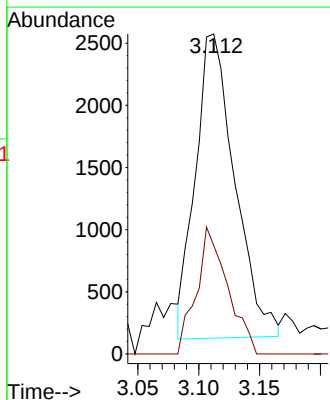
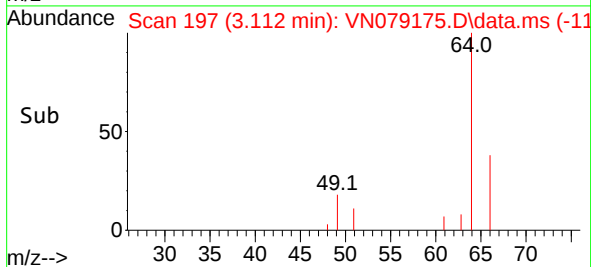
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023

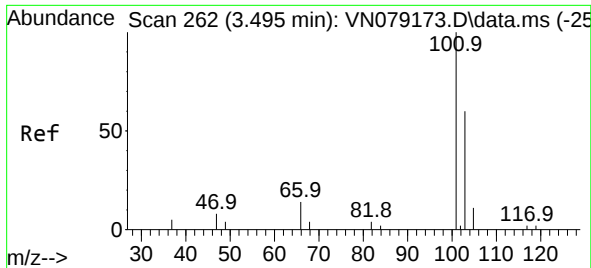


#6  
Chloroethane  
Concen: 5.020 ug/l  
RT: 3.112 min Scan# 197  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32



Tgt Ion: 64 Resp: 5501  
Ion Ratio Lower Upper  
64 100  
66 37.3 20.1 30.1#





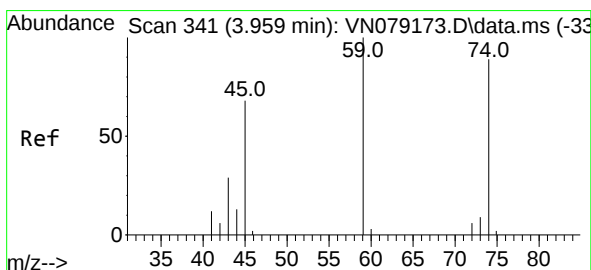
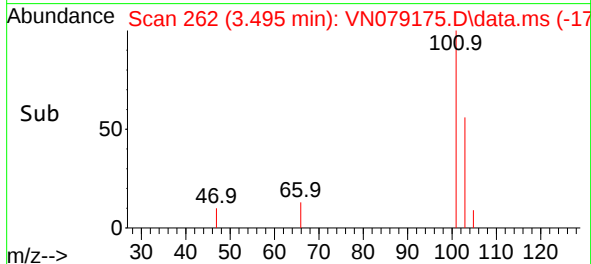
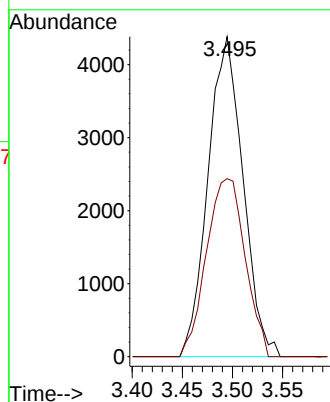
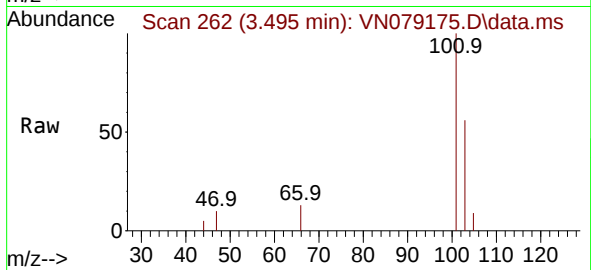
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Trichlorofluoromethane  
Concen: 4.987 ug/l  
RT: 3.495 min Scan# 206  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion:101 Resp: 1062  
Ion Ratio Lower Upper  
101 100  
103 55.6 48.2 72.4

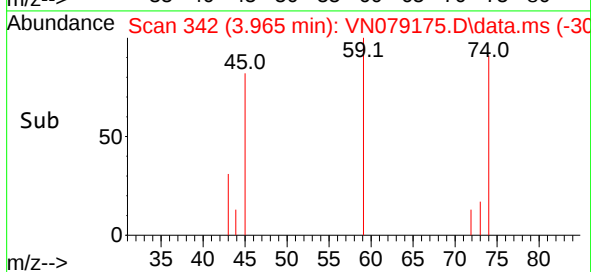
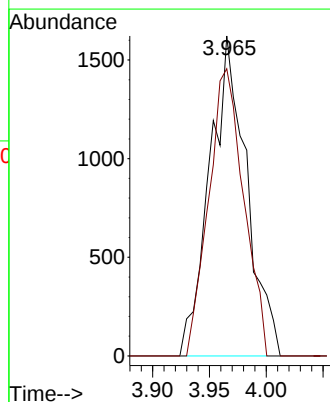
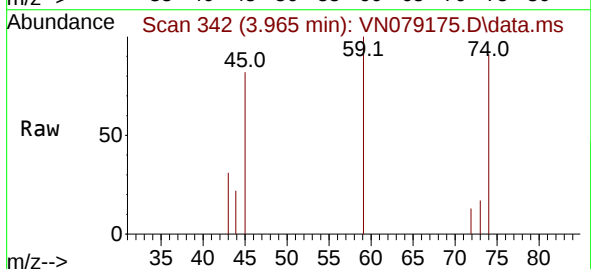
Manual Integrations  
APPROVED

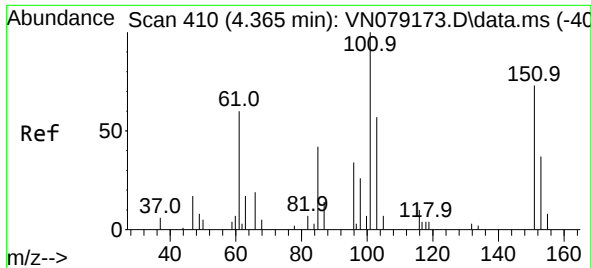
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#8  
Diethyl Ether  
Concen: 4.685 ug/l  
RT: 3.965 min Scan# 342  
Delta R.T. 0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion: 74 Resp: 3659  
Ion Ratio Lower Upper  
74 100  
45 85.4 17.6 158.0





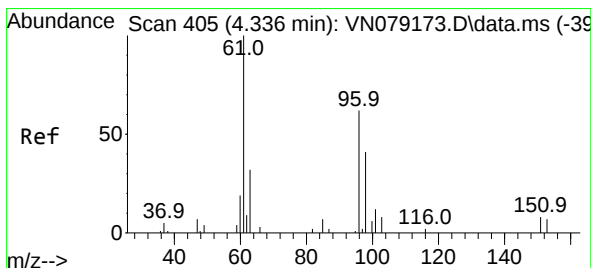
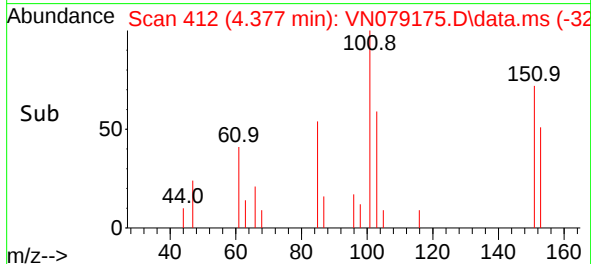
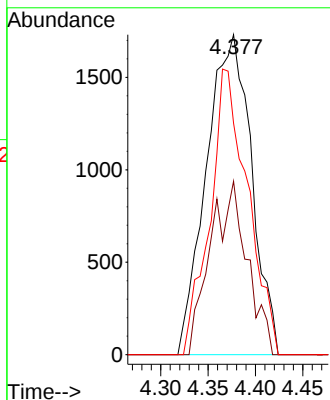
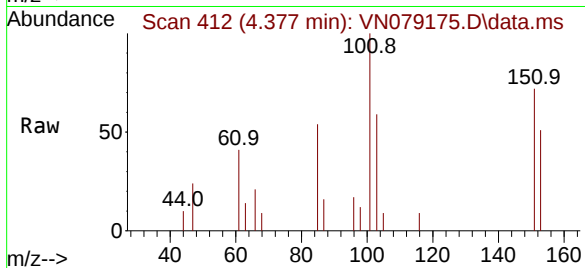
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 5.284 ug/l  
RT: 4.377 min Scan# 410  
Delta R.T. 0.012 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 101 Resp: 572  
Ion Ratio Lower Upper  
101 100  
85 22.4 0.0 85.6  
151 0.0 0.0 155.8

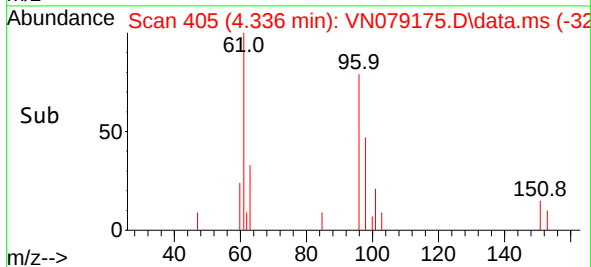
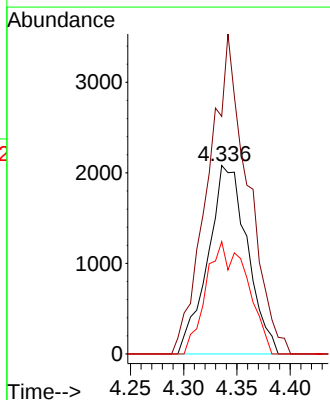
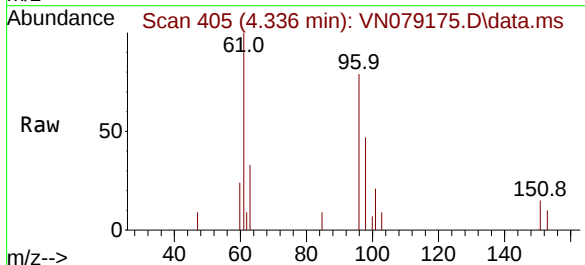
Manual Integrations  
APPROVED

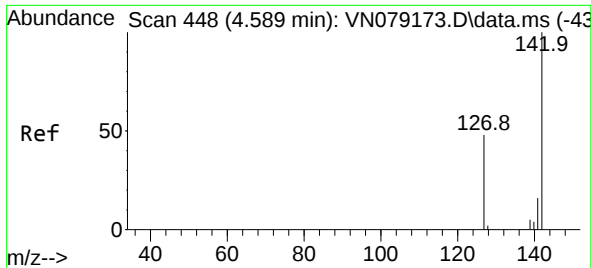
Reviewed By : John Carlone 09/08/2023  
Supervised By : Mahesh Dadoda 09/08/2023



#10  
1,1-Dichloroethene  
Concen: 4.698 ug/l  
RT: 4.336 min Scan# 405  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

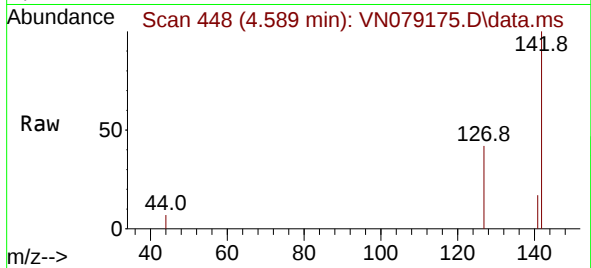
Tgt Ion: 96 Resp: 5344  
Ion Ratio Lower Upper  
96 100  
61 117.5 130.2 195.2#  
98 59.6 52.3 78.5





#11  
Methyl Iodide  
Concen: 4.521 ug/l  
RT: 4.589 min Scan# 448  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

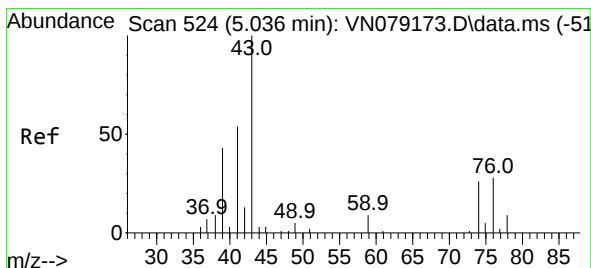
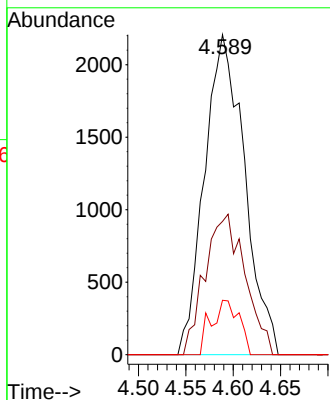
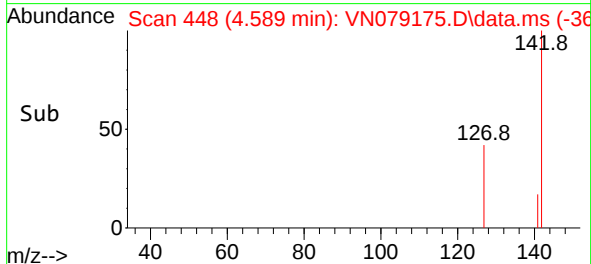
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion:142 Resp: 647  
Ion Ratio Lower Upper  
142 100  
127 41.6 23.8 71.4  
141 17.0 8.2 24.6

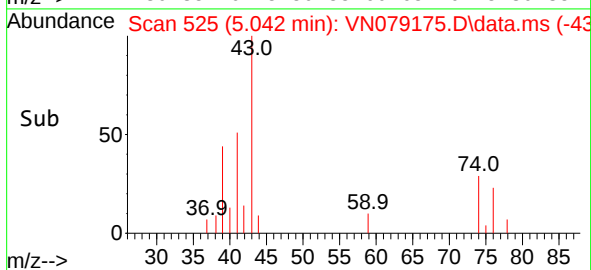
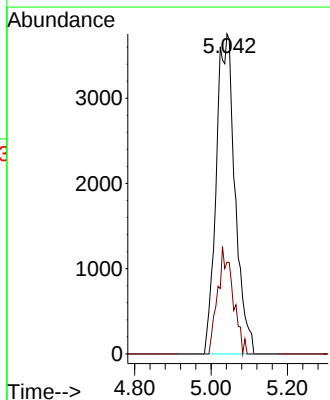
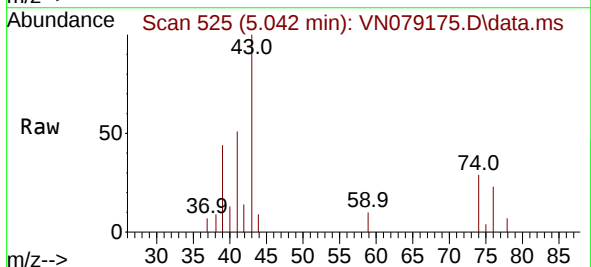
Manual Integrations  
APPROVED

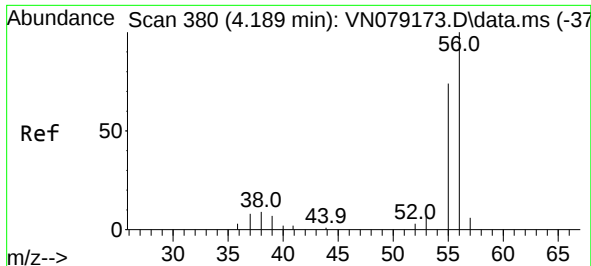
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#12  
Methyl Acetate  
Concen: 5.495 ug/l m  
RT: 5.042 min Scan# 525  
Delta R.T. 0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion: 43 Resp: 12795  
Ion Ratio Lower Upper  
43 100  
74 28.7 20.4 30.6





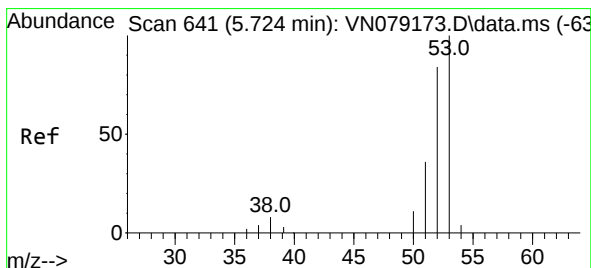
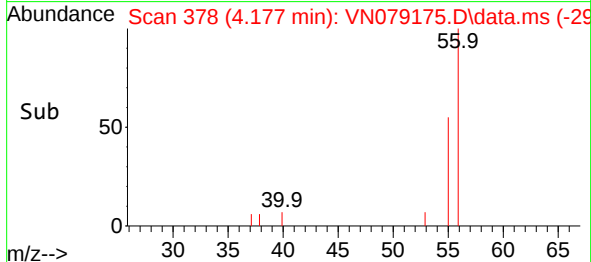
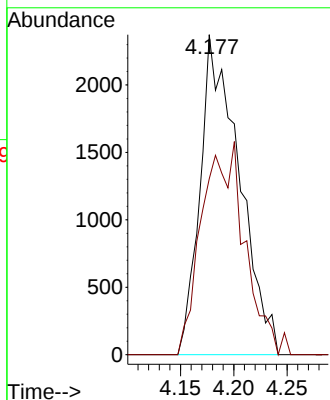
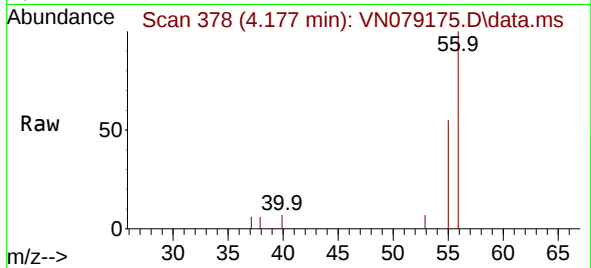
#13  
Acrolein  
Concen: 25.012 ug/l  
RT: 4.177 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 56 Resp: 6039  
Ion Ratio Lower Upper  
56 100  
55 45.8 57.7 86.5

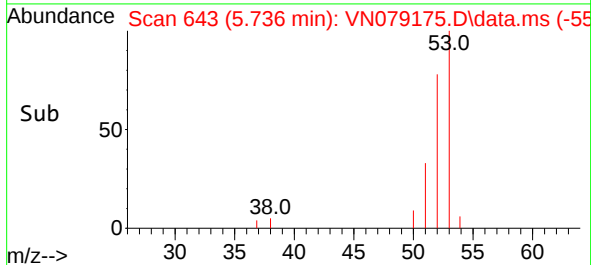
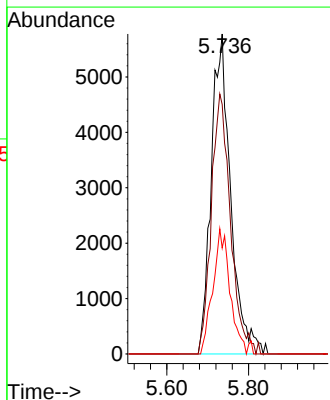
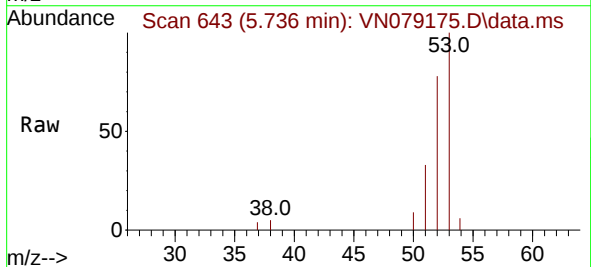
Manual Integrations  
APPROVED

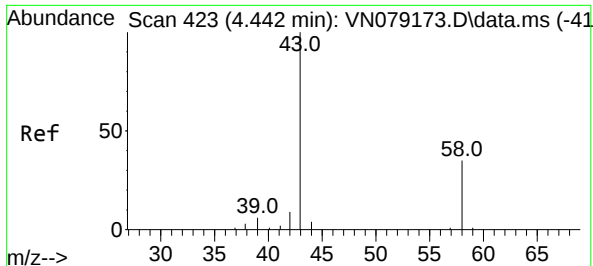
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#14  
Acrylonitrile  
Concen: 27.283 ug/l m  
RT: 5.736 min Scan# 643  
Delta R.T. 0.012 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion: 53 Resp: 19044  
Ion Ratio Lower Upper  
53 100  
52 0.0 41.4 124.4#  
51 0.0 17.3 51.9#





#15

Acetone

Concen: 22.133 ug/l m

RT: 4.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC005

Tgt Ion: 58 Resp: 4490

Ion Ratio Lower Upper

58 100

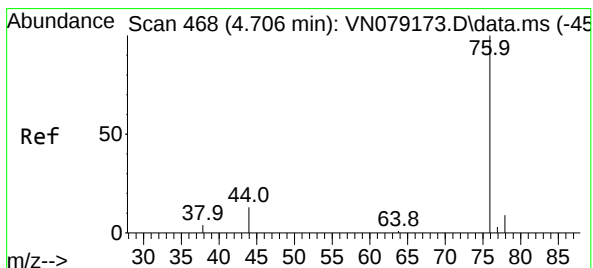
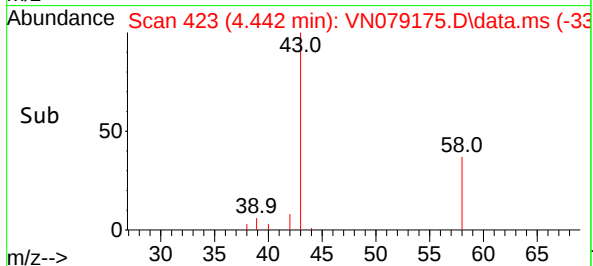
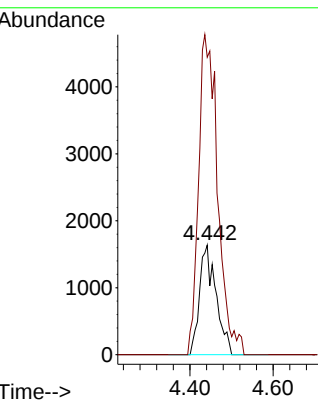
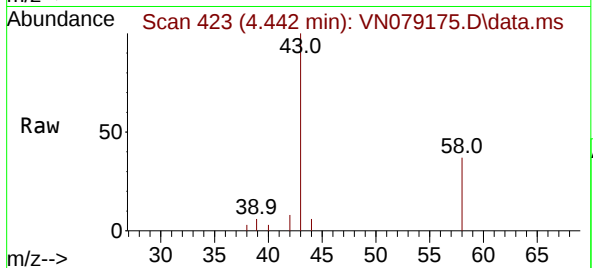
43 271.3 228.3 342.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#16

Carbon Disulfide

Concen: 4.913 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.006 min

Lab File: VN079175.D

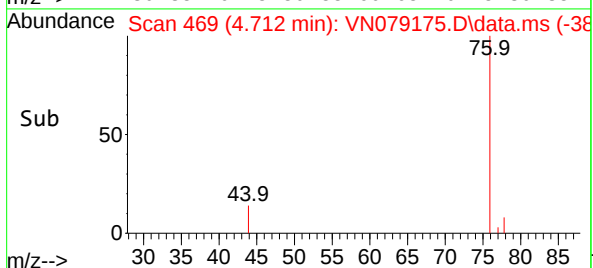
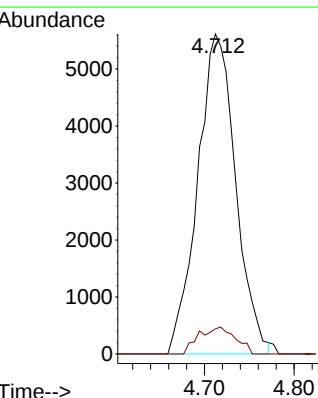
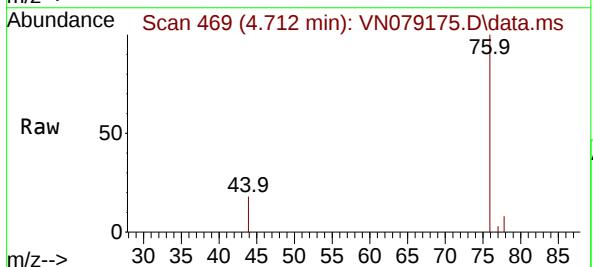
Acq: 07 Sep 2023 11:32

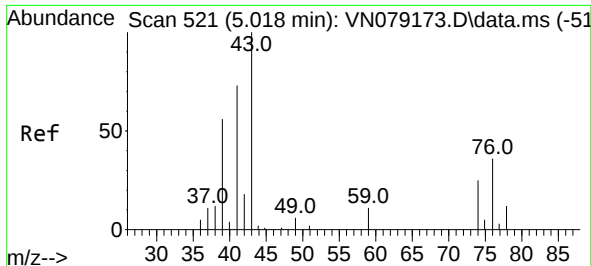
Tgt Ion: 76 Resp: 16514

Ion Ratio Lower Upper

76 100

78 7.9 6.9 10.3





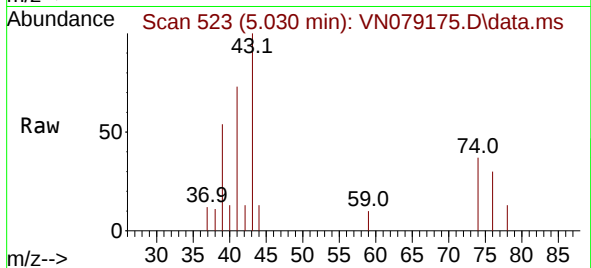
#17  
 Allyl chloride  
 Concen: 5.448 ug/l  
 RT: 5.030 min Scan# 511  
 Delta R.T. 0.012 min  
 Lab File: VN079175.D  
 Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005



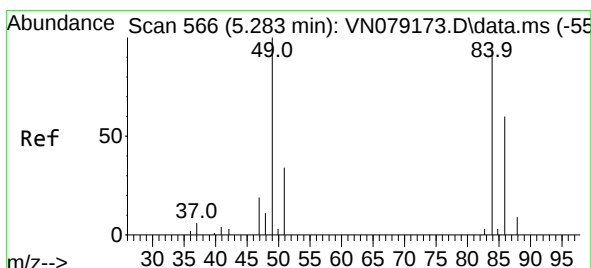
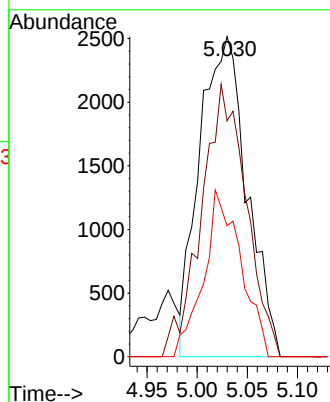
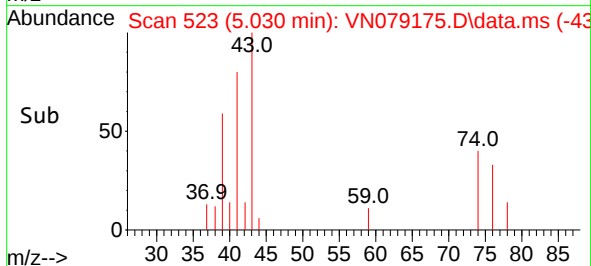
Tgt Ion: 41 Resp: 831  
 Ion Ratio Lower Upper  
 41 100  
 39 73.7 38.3 114.8  
 76 40.9 23.7 71.1

Manual Integrations

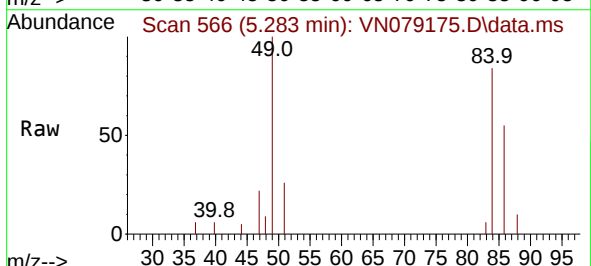
APPROVED

Reviewed By :John Carlone 09/08/2023

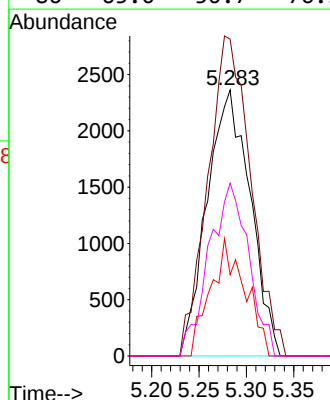
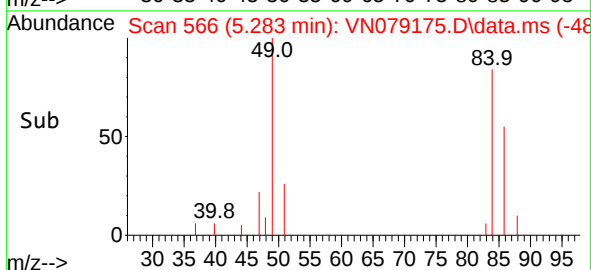
Supervised By :Mahesh Dadoda 09/08/2023

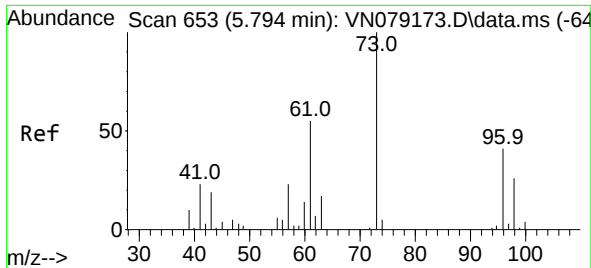


#18  
 Methylene Chloride  
 Concen: 4.895 ug/l  
 RT: 5.283 min Scan# 566  
 Delta R.T. -0.000 min  
 Lab File: VN079175.D  
 Acq: 07 Sep 2023 11:32



Tgt Ion: 84 Resp: 7468  
 Ion Ratio Lower Upper  
 84 100  
 49 119.2 86.9 130.3  
 51 30.6 28.6 43.0  
 86 65.0 50.7 76.1





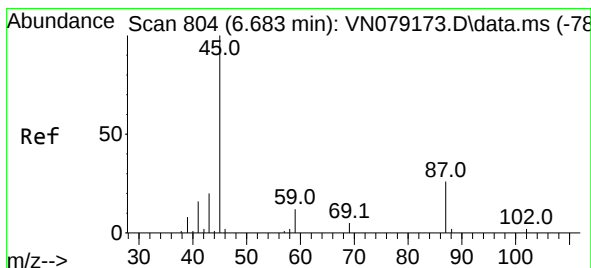
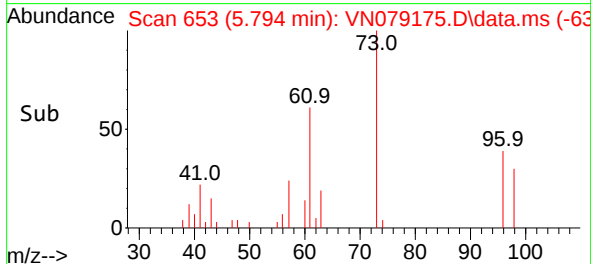
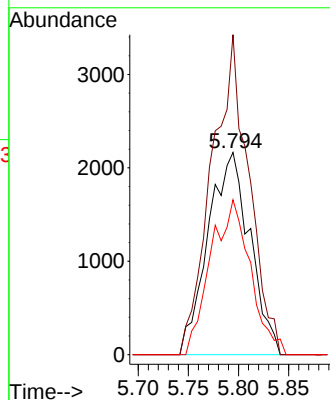
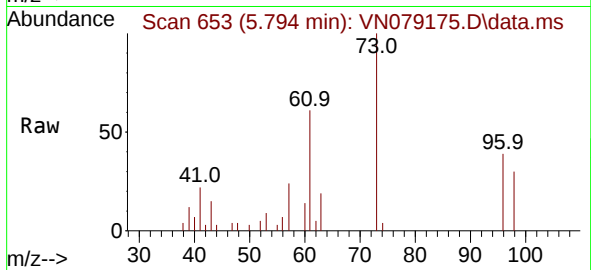
#19  
trans-1,2-Dichloroethene  
Concen: 4.421 ug/l  
RT: 5.794 min Scan# 653  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 96 Resp: 6292  
Ion Ratio Lower Upper  
96 100  
61 158.2 106.6 159.8  
98 76.6 51.0 76.4

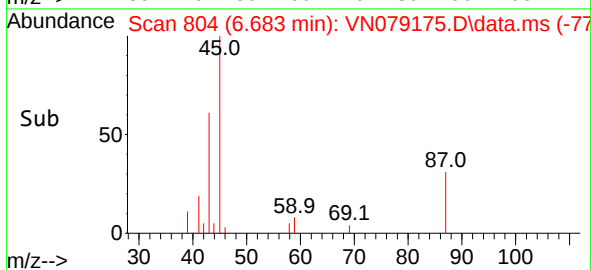
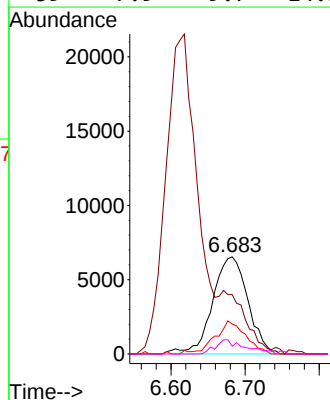
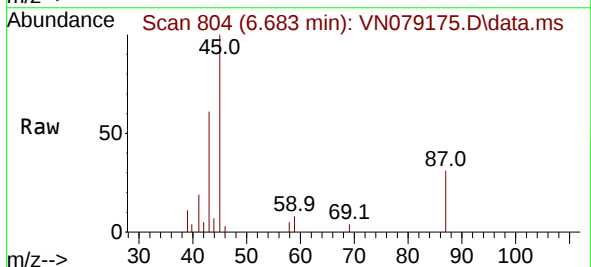
Manual Integrations  
APPROVED

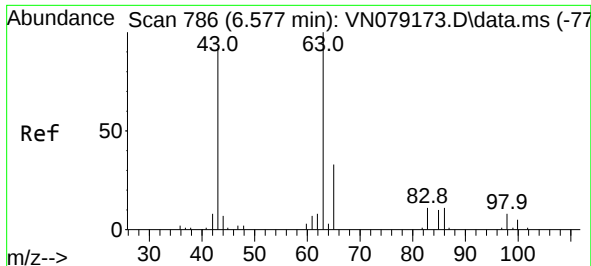
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#20  
Diisopropyl ether  
Concen: 3.908 ug/l  
RT: 6.683 min Scan# 804  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion: 45 Resp: 21332  
Ion Ratio Lower Upper  
45 100  
43 56.3 34.9 52.3#  
87 30.8 21.5 32.3  
59 7.9 9.7 14.5#





#21

1,1-Dichloroethane

Concen: 4.114 ug/l

RT: 6.577 min Scan# 786

Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

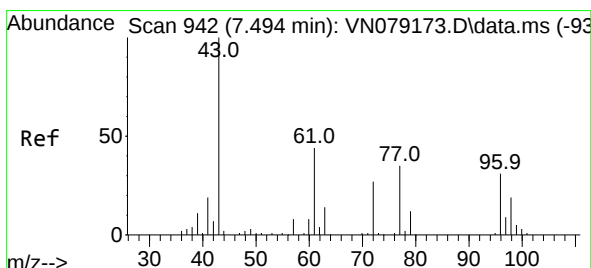
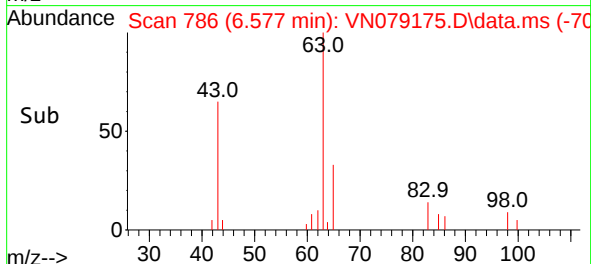
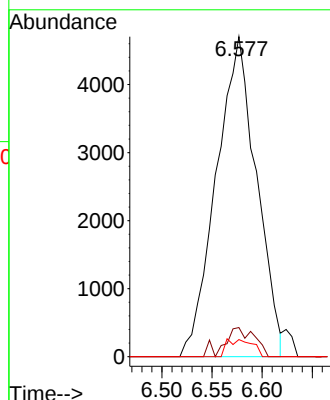
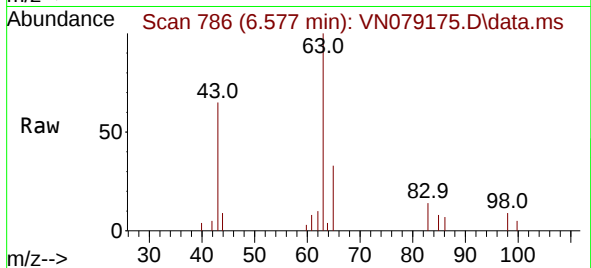
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 63    | Resp: | 1315 |
| Ion Ratio | Lower | Upper |      |
| 63        | 100   |       |      |
| 98        | 9.1   | 3.9   | 11.5 |
| 100       | 5.3   | 2.5   | 7.5  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#22

cis-1,2-Dichloroethene

Concen: 5.302 ug/l

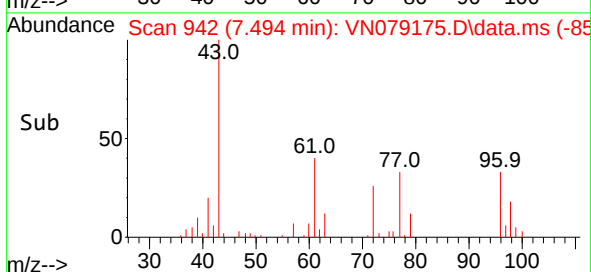
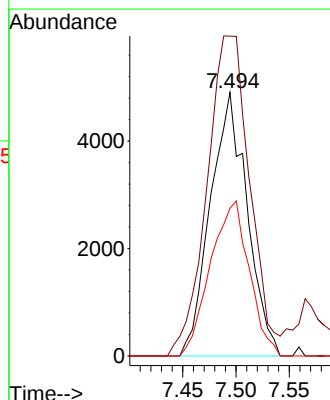
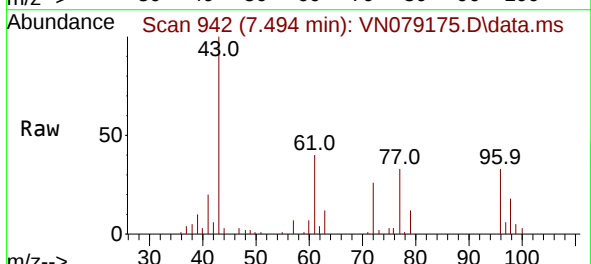
RT: 7.494 min Scan# 942

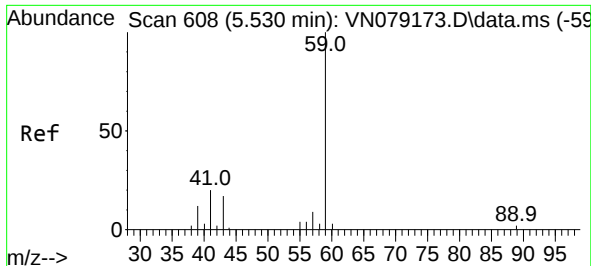
Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 11800 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 141.4 | 113.0 | 169.6 |
| 98        | 61.9  | 50.2  | 75.4  |





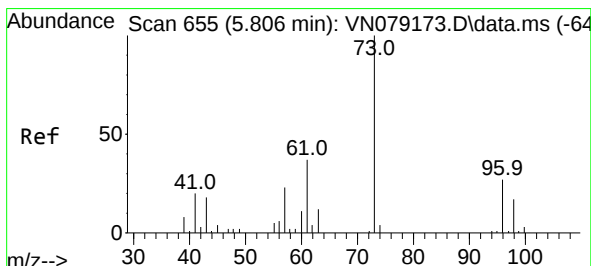
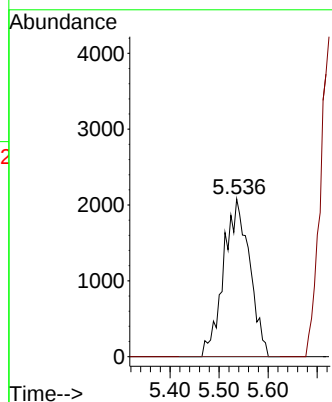
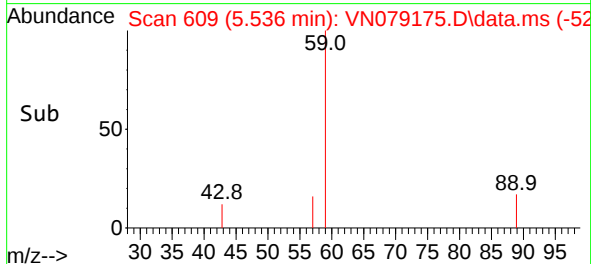
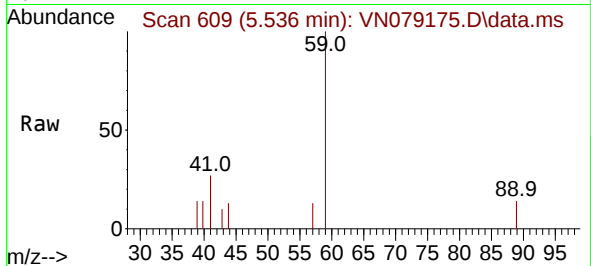
#23  
tert-Butyl Alcohol  
Concen: 25.539 ug/l m  
RT: 5.536 min Scan# 608  
Delta R.T. 0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 59 Resp: 7640  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0

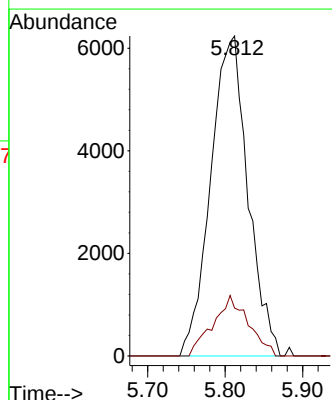
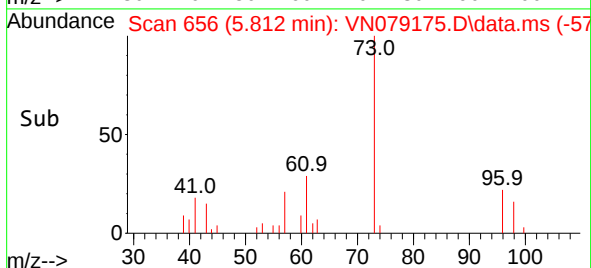
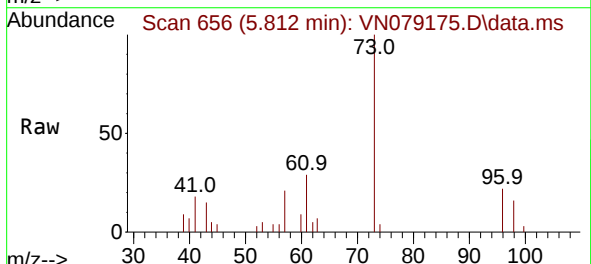
Manual Integrations  
APPROVED

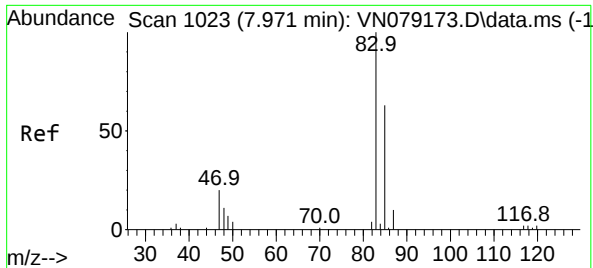
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#24  
Methyl tert-Butyl Ether  
Concen: 4.645 ug/l  
RT: 5.812 min Scan# 656  
Delta R.T. 0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion: 73 Resp: 20854  
Ion Ratio Lower Upper  
73 100  
43 12.6 14.7 22.1#





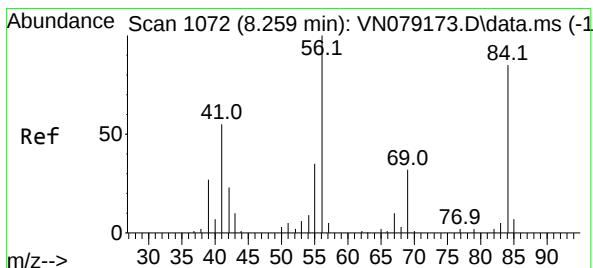
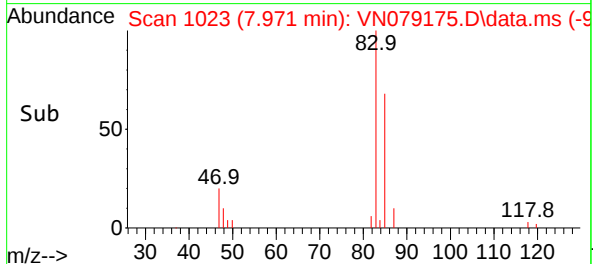
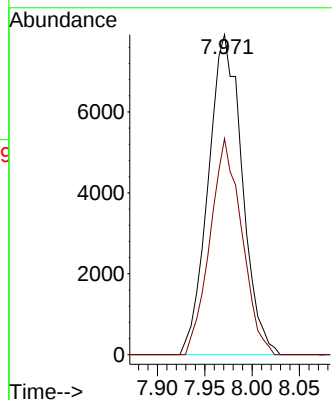
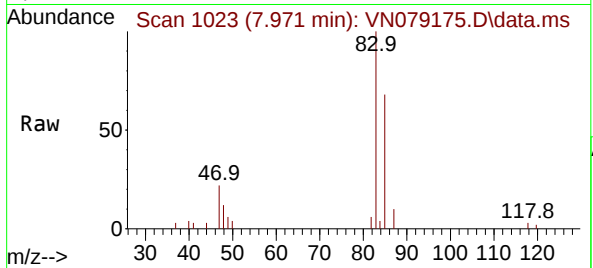
#25  
Chloroform  
Concen: 5.106 ug/l  
RT: 7.971 min Scan# 1023  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 83 Resp: 1968  
Ion Ratio Lower Upper  
83 100  
85 67.5 50.6 76.0

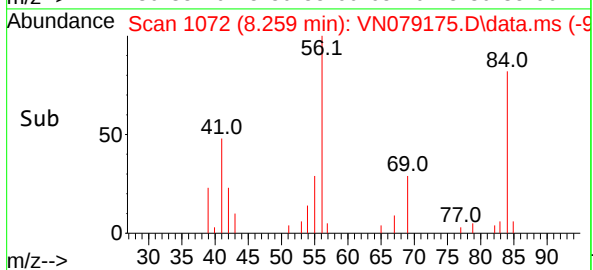
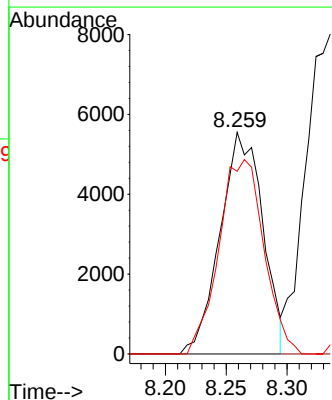
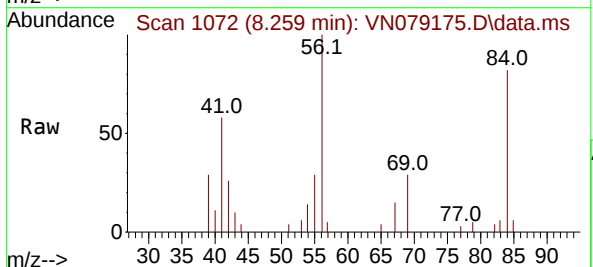
Manual Integrations  
APPROVED

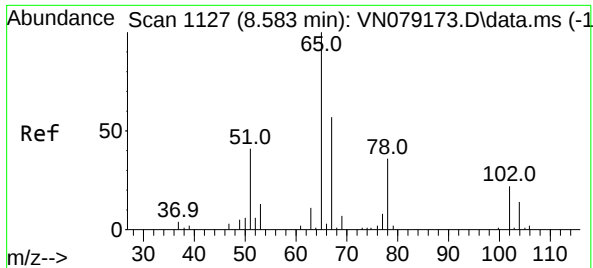
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#26  
Cyclohexane  
Concen: 4.662 ug/l  
RT: 8.259 min Scan# 1072  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion: 56 Resp: 13513  
Ion Ratio Lower Upper  
56 100  
89 0.0 0.0 0.0  
84 92.8 71.1 106.7





#27  
1,2-Dichloroethane-d4  
Concen: 29.868 ug/l  
RT: 8.582 min Scan# 1127  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

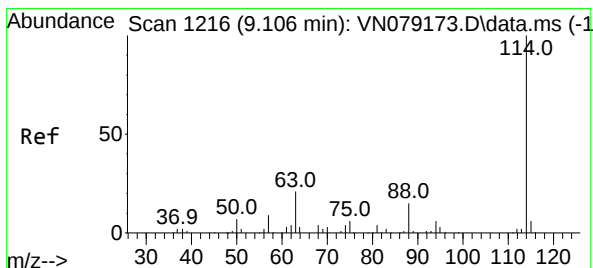
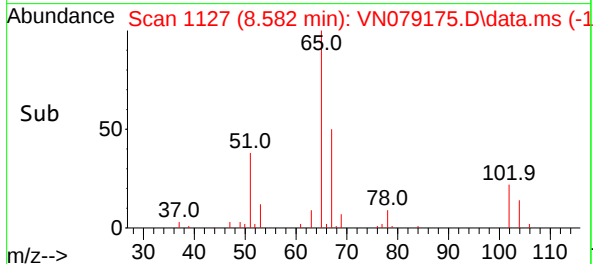
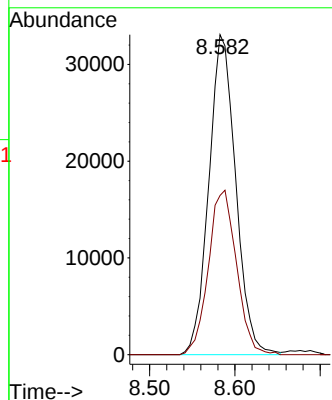
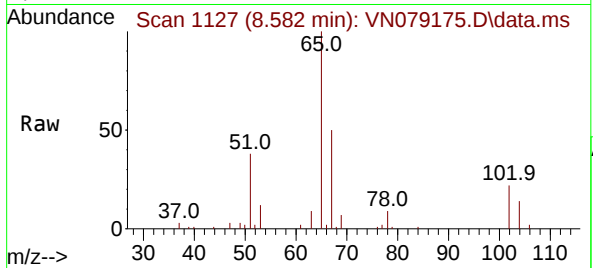
VSTDIC005

Tgt Ion: 65 Resp: 72568  
Ion Ratio Lower Upper  
65 100  
67 53.6 44.4 66.6

Manual Integrations

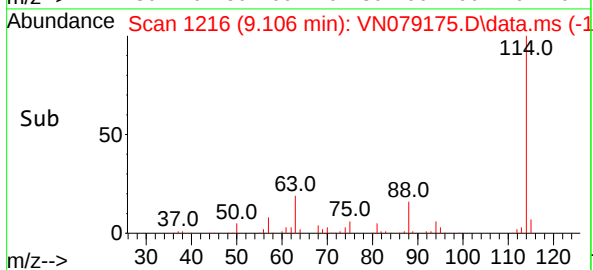
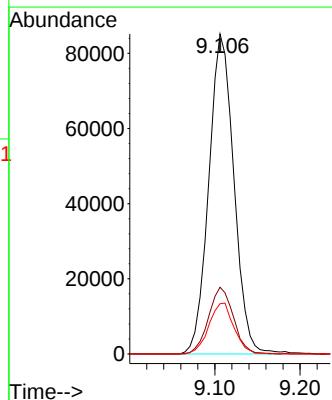
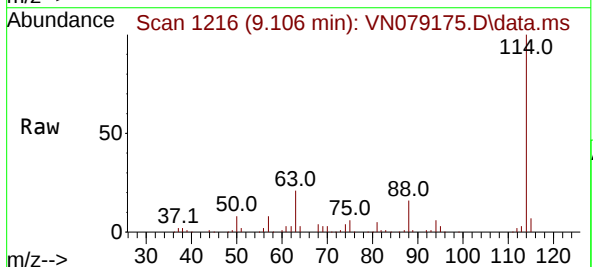
APPROVED

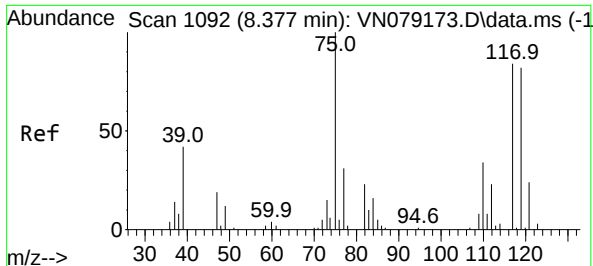
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 9.106 min Scan# 1216  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion:114 Resp: 174163  
Ion Ratio Lower Upper  
114 100  
63 20.6 17.0 25.4  
88 15.9 12.8 19.2





#29

1,1-Dichloropropene

Concen: 4.883 ug/l

RT: 8.377 min Scan# 1092

Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 13630

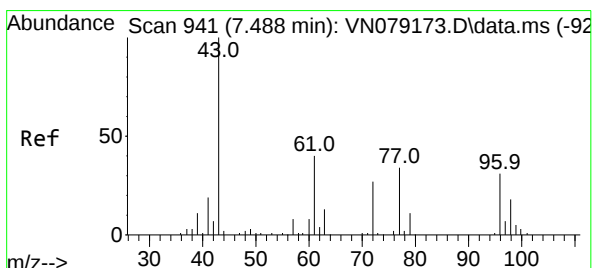
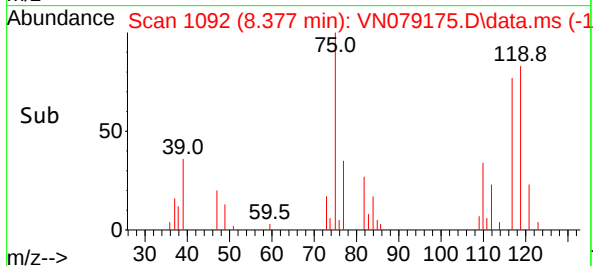
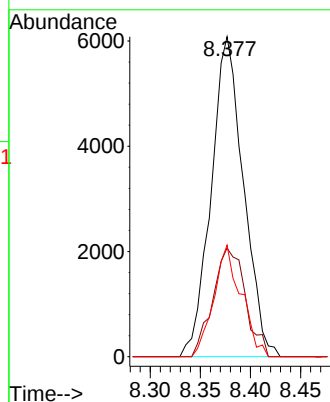
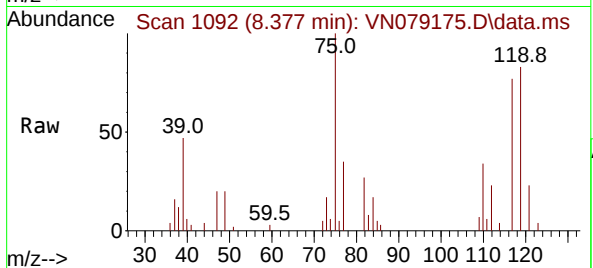
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 32.9  | 0.0   | 68.4  |
| 77  | 29.5  | 0.0   | 63.2  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#30

2-Butanone

Concen: 26.105 ug/l

RT: 7.494 min Scan# 942

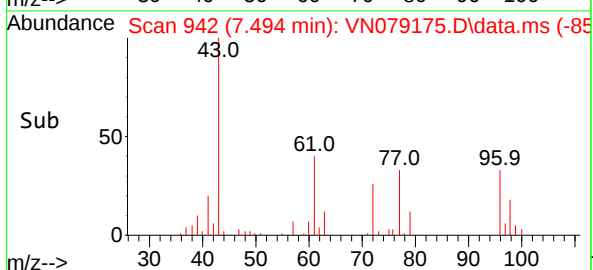
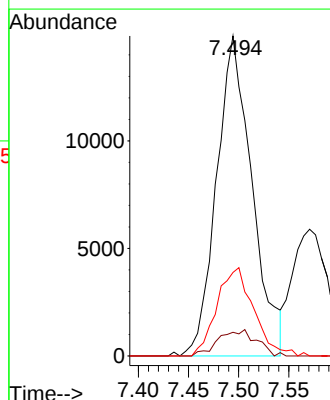
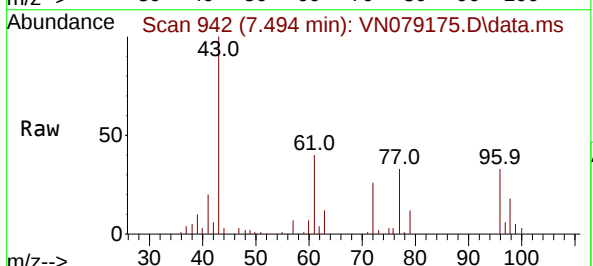
Delta R.T. 0.006 min

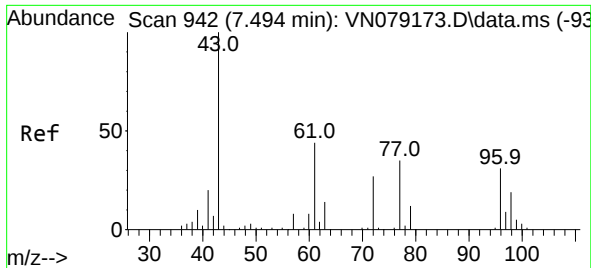
Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Tgt Ion: 43 Resp: 36665

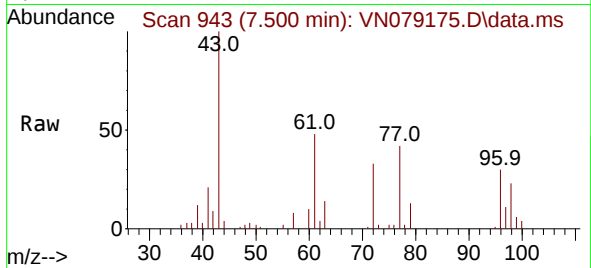
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 57  | 4.6   | 6.8   | 10.2# |
| 72  | 0.0   | 22.4  | 33.6# |





#31  
2,2-Dichloropropane  
Concen: 4.971 ug/l  
RT: 7.500 min Scan# 942  
Delta R.T. 0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

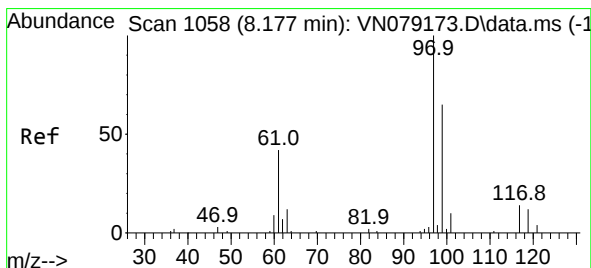
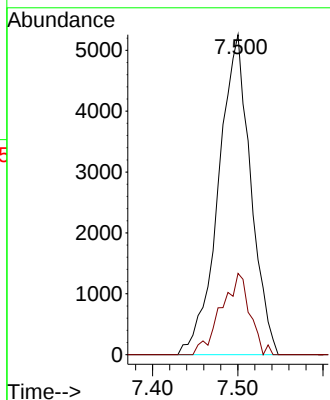
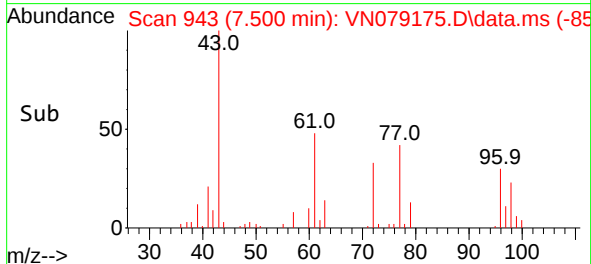
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



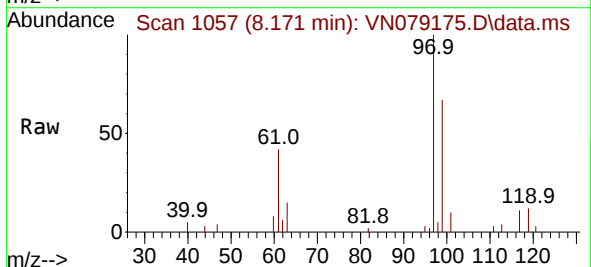
Tgt Ion: 77 Resp: 13840  
Ion Ratio Lower Upper  
77 100  
97 20.8 17.8 26.8

Manual Integrations  
APPROVED

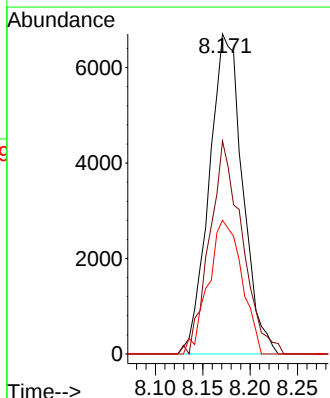
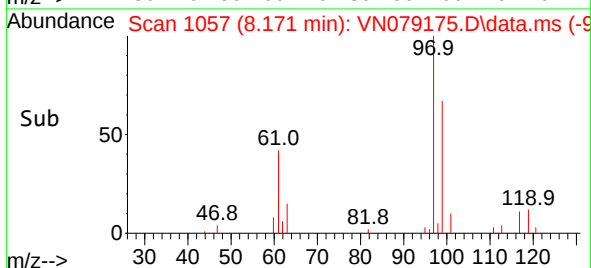
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023

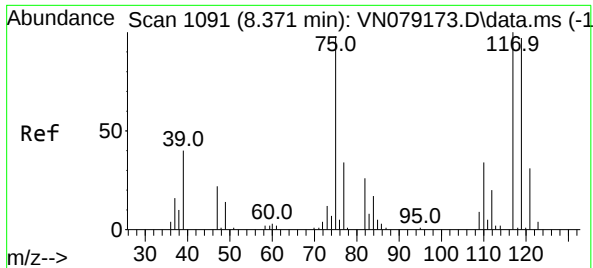


#32  
1,1,1-Trichloroethane  
Concen: 5.001 ug/l  
RT: 8.171 min Scan# 1057  
Delta R.T. -0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32



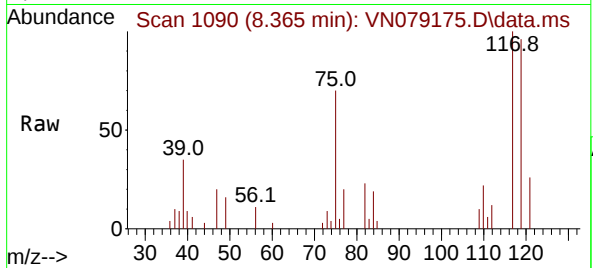
Tgt Ion: 97 Resp: 16453  
Ion Ratio Lower Upper  
97 100  
99 64.2 52.0 78.0  
61 41.7 33.4 50.0





#33  
Carbon Tetrachloride  
Concen: 6.618 ug/l  
RT: 8.365 min Scan# 1090  
Delta R.T. -0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

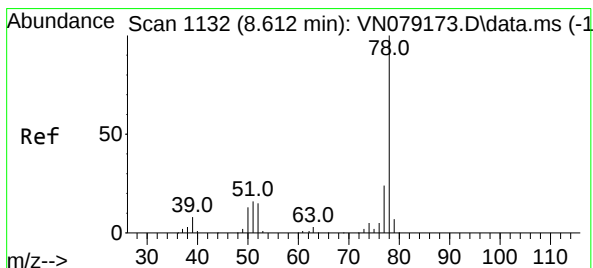
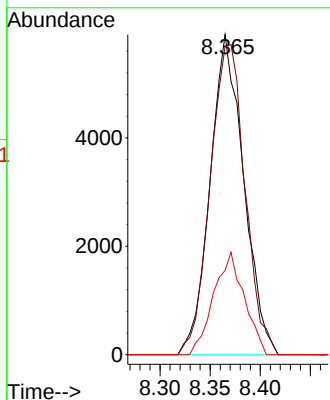
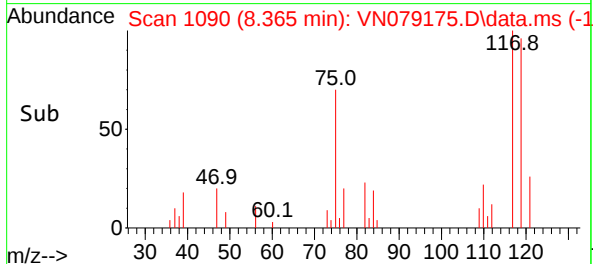
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion: 117 Resp: 1371  
Ion Ratio Lower Upper  
117 100  
119 96.2 77.9 116.9  
121 26.3 25.1 37.7

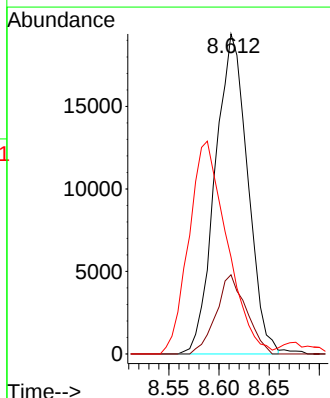
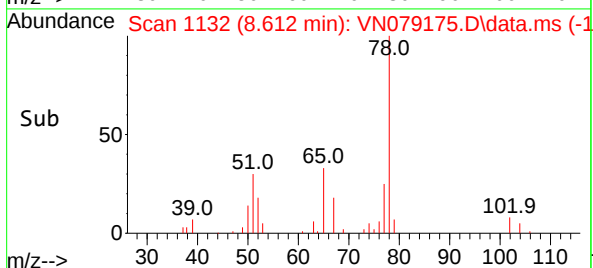
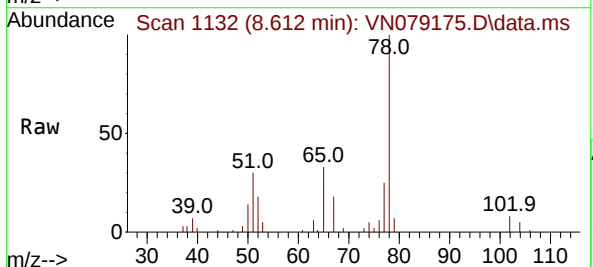
Manual Integrations  
APPROVED

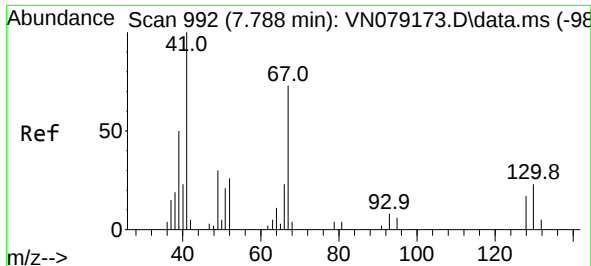
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#34  
Benzene  
Concen: 4.914 ug/l  
RT: 8.612 min Scan# 1132  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion: 78 Resp: 43596  
Ion Ratio Lower Upper  
78 100  
77 24.8 18.9 28.3  
51 28.4 13.1 19.7#





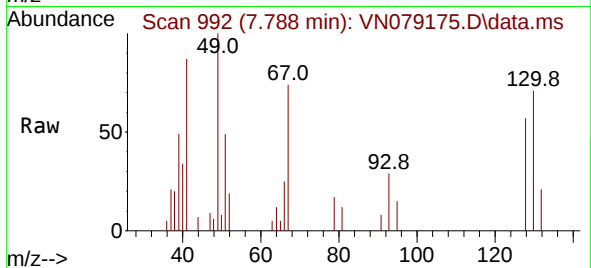
#35  
Methacrylonitrile  
Concen: 4.981 ug/l  
RT: 7.788 min Scan# 992  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC005

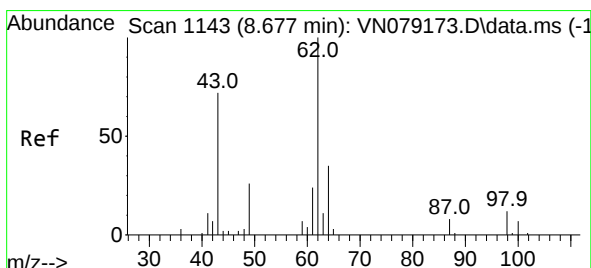
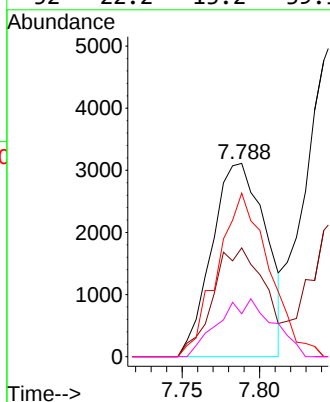
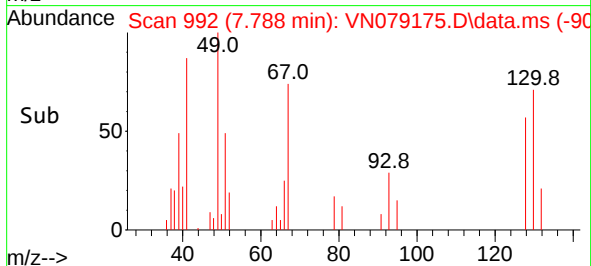


Tgt Ion: 41 Resp: 753  
Ion Ratio Lower Upper  
41 100  
39 56.3 24.9 74.6  
67 84.6 36.7 110.1  
52 22.2 13.2 39.5

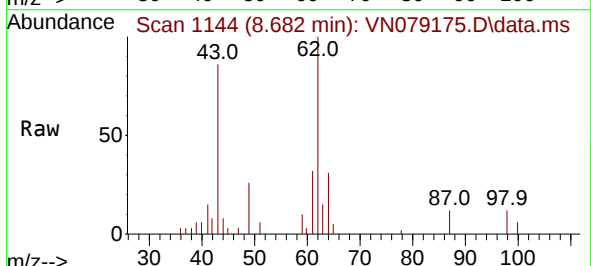
Manual Integrations

APPROVED

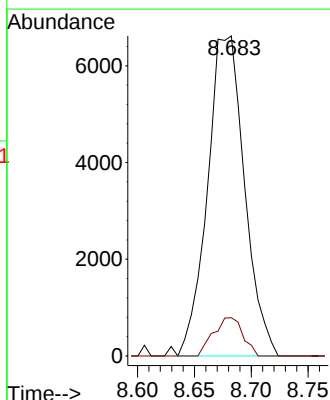
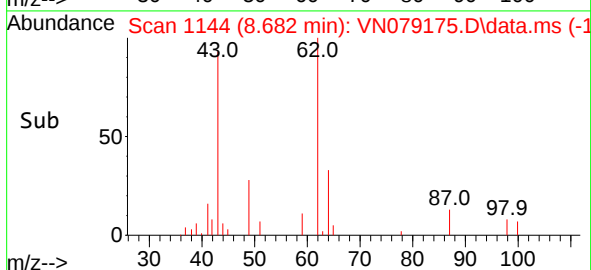
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023

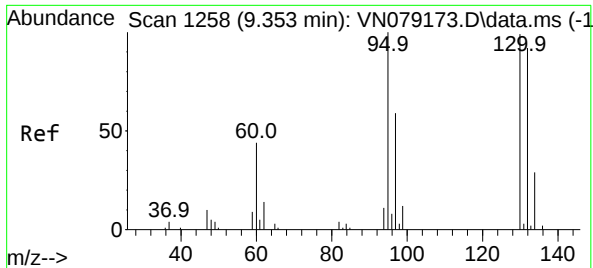


#36  
1,2-Dichloroethane  
Concen: 5.130 ug/l  
RT: 8.682 min Scan# 1144  
Delta R.T. 0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32



Tgt Ion: 62 Resp: 15009  
Ion Ratio Lower Upper  
62 100  
98 9.5 8.2 12.2





#37

Trichloroethene

Concen: 4.988 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. 0.006 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion:130 Resp: 10460

Ion Ratio Lower Upper

130 100

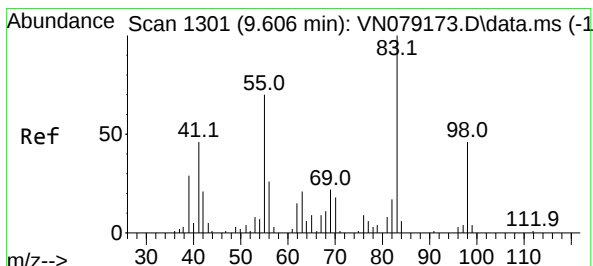
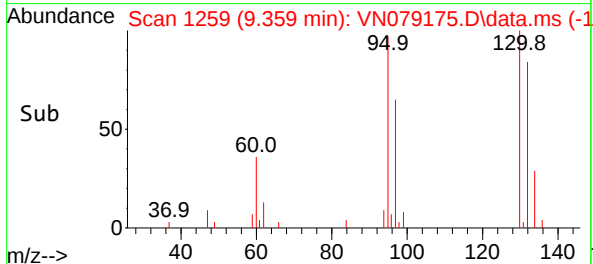
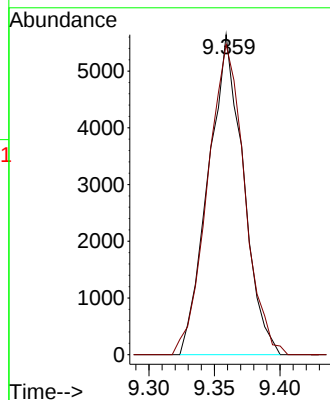
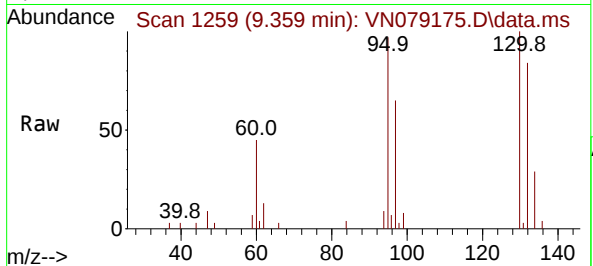
95 94.2 81.0 121.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#38

Methylcyclohexane

Concen: 4.696 ug/l

RT: 9.606 min Scan# 1301

Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

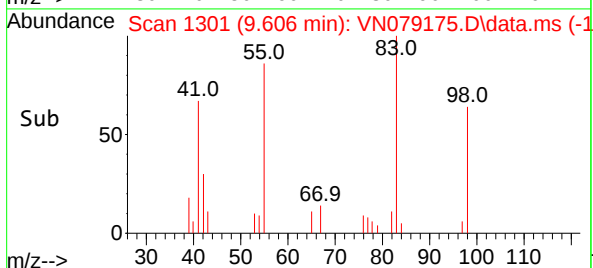
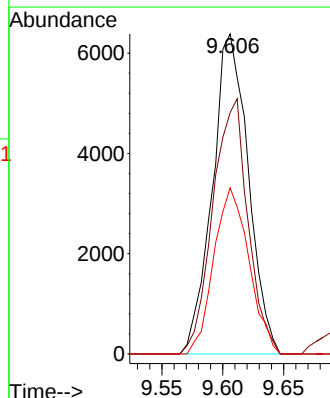
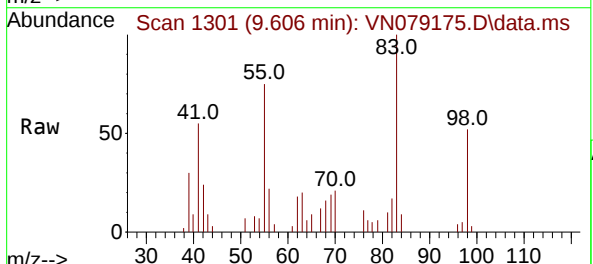
Tgt Ion: 83 Resp: 13109

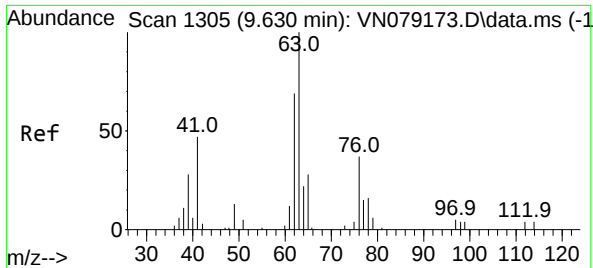
Ion Ratio Lower Upper

83 100

55 77.6 39.1 117.2

98 50.7 24.1 72.4





#39

1,2-Dichloropropane

Concen: 4.683 ug/l

RT: 9.630 min Scan# 1305

Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 1071

Ion Ratio Lower Upper

63 100

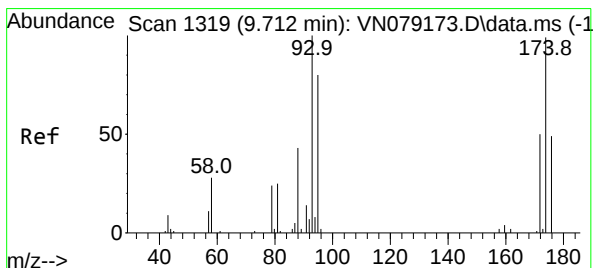
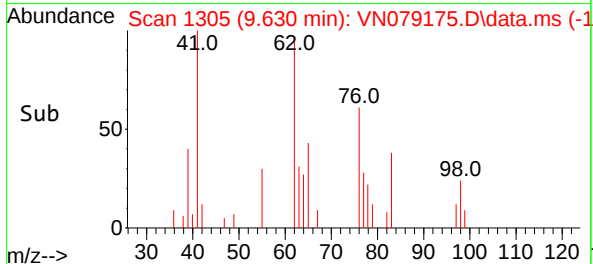
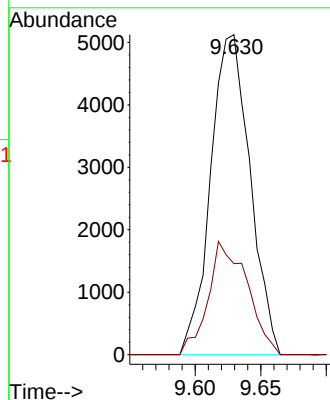
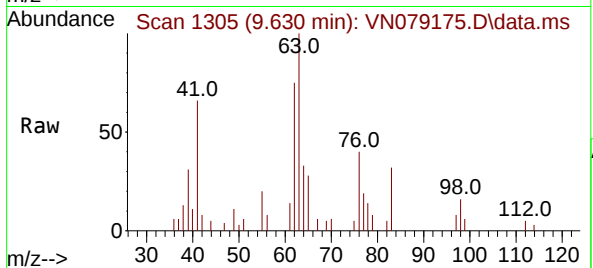
65 28.5 23.4 35.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#40

Dibromomethane

Concen: 5.078 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

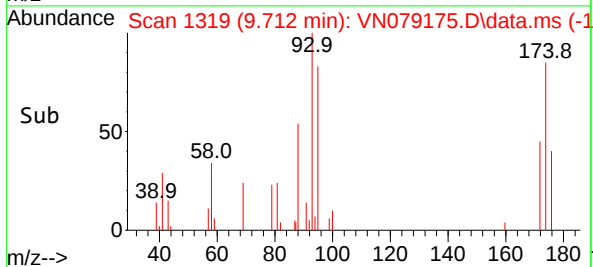
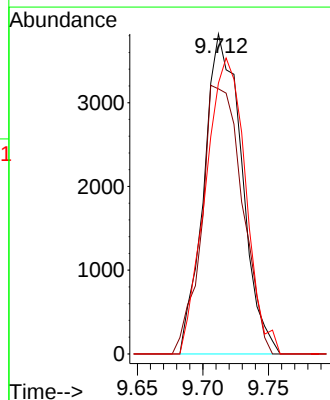
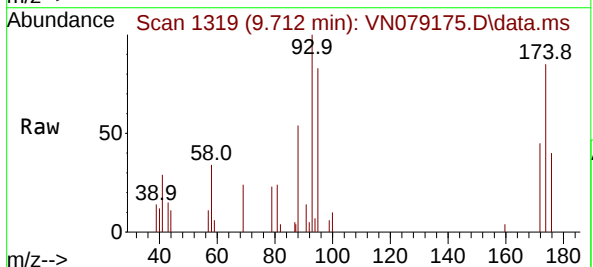
Tgt Ion: 93 Resp: 7664

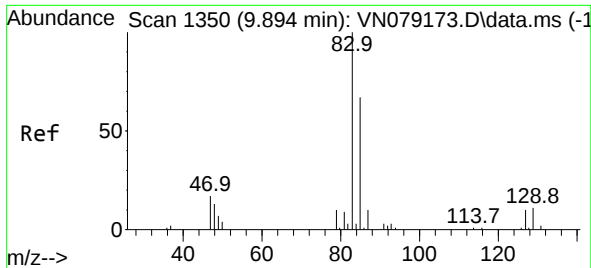
Ion Ratio Lower Upper

93 100

95 89.8 0.0 172.4

174 97.7 0.0 192.4





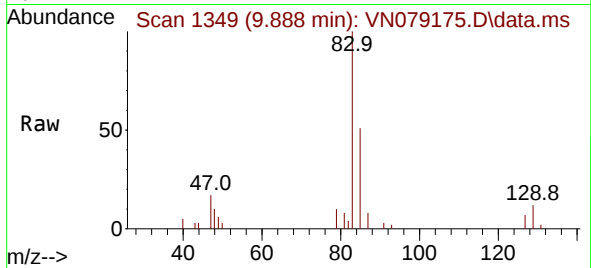
#41  
Bromodichloromethane  
Concen: 4.810 ug/l  
RT: 9.888 min Scan# 1349  
Delta R.T. -0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005



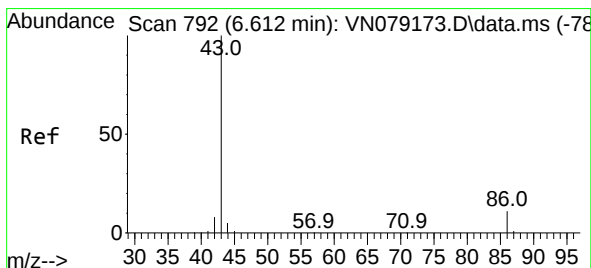
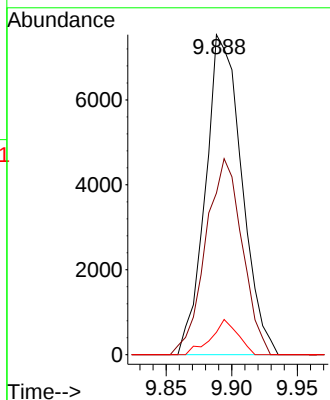
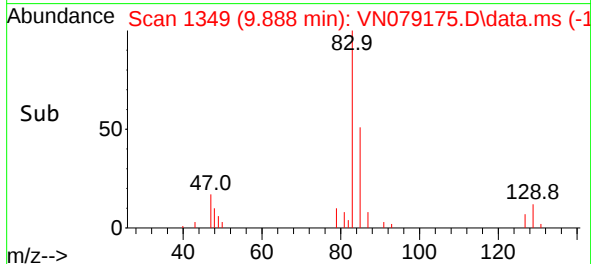
Tgt Ion: 83 Resp: 1447  
Ion Ratio Lower Upper  
83 100  
85 50.5 53.4 80.2  
127 7.0 8.3 12.5

Manual Integrations

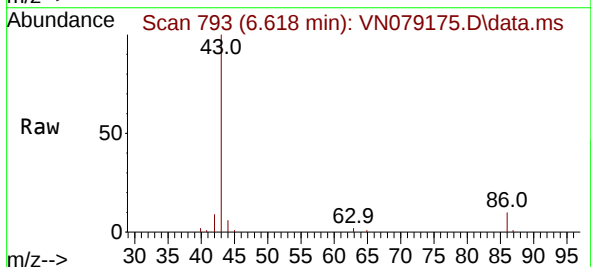
APPROVED

Reviewed By :John Carlone 09/08/2023

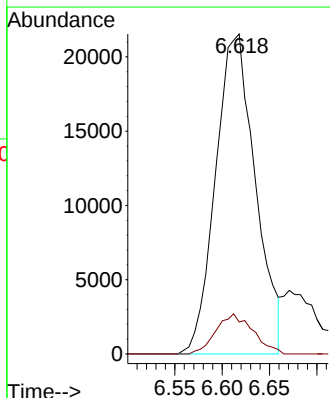
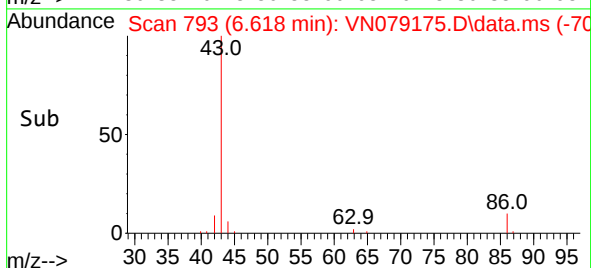
Supervised By :Mahesh Dadoda 09/08/2023

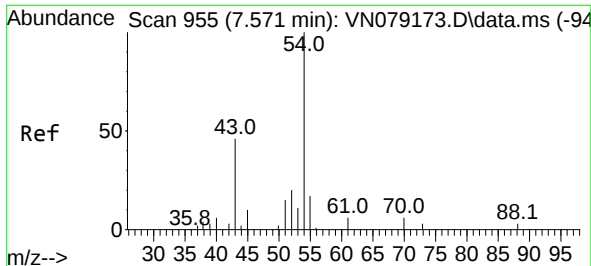


#42  
Vinyl Acetate  
Concen: 18.939 ug/l  
RT: 6.618 min Scan# 793  
Delta R.T. 0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32



Tgt Ion: 43 Resp: 63171  
Ion Ratio Lower Upper  
43 100  
86 11.7 9.2 13.8





#43

Ethyl Acetate

Concen: 4.878 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 1301

Ion Ratio Lower Upper

43 100

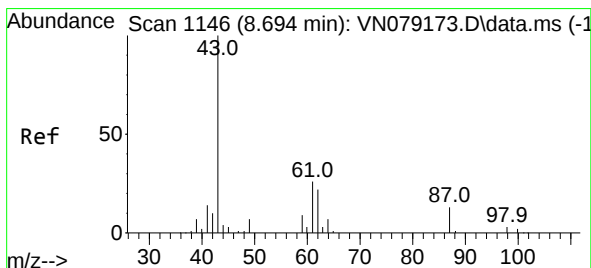
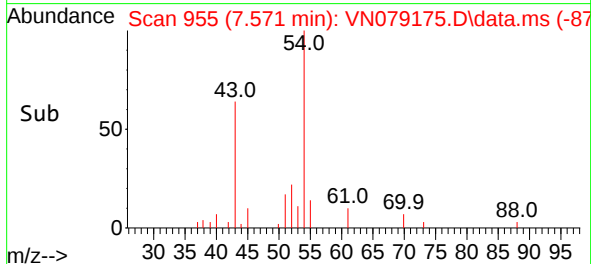
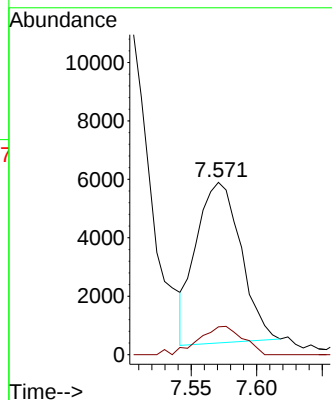
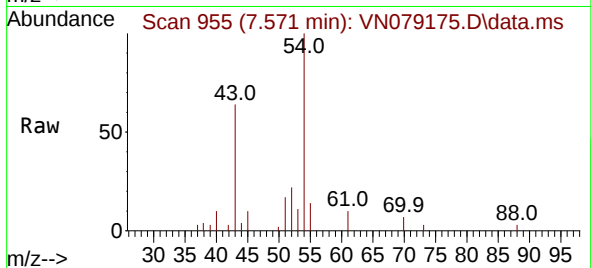
45 17.1 11.1 16.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#44

Isopropyl Acetate

Concen: 4.999 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN079175.D

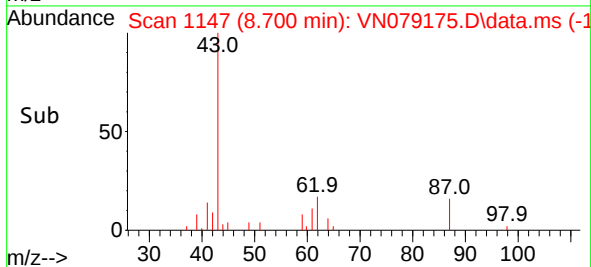
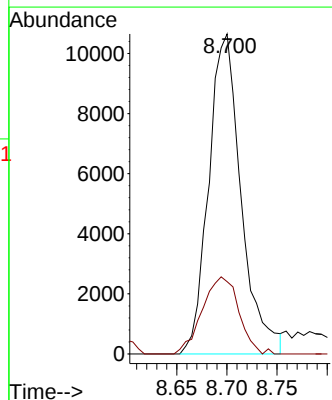
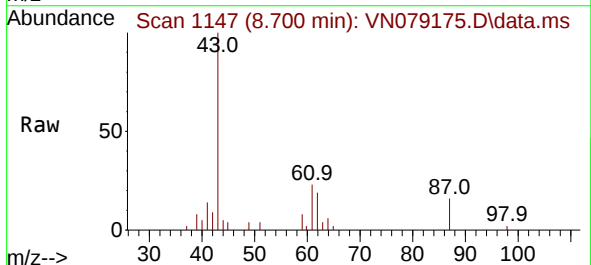
Acq: 07 Sep 2023 11:32

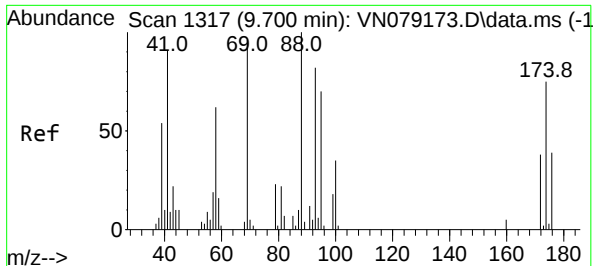
Tgt Ion: 43 Resp: 23987

Ion Ratio Lower Upper

43 100

61 26.8 22.6 33.8





#45

1,4-Dioxane

Concen: 97.816 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC005

Tgt Ion: 88 Resp: 4672

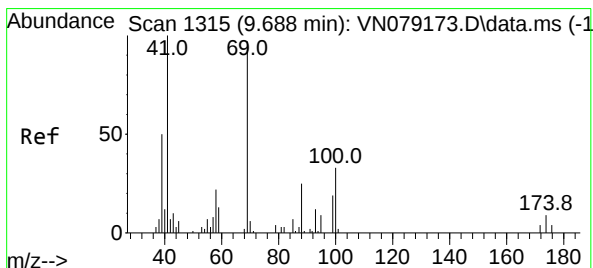
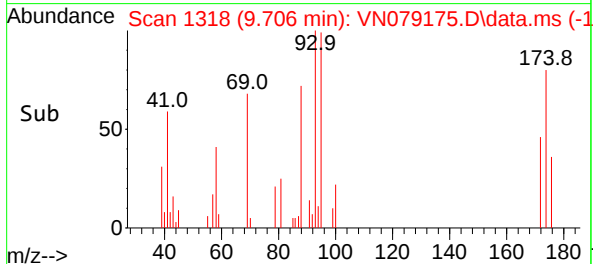
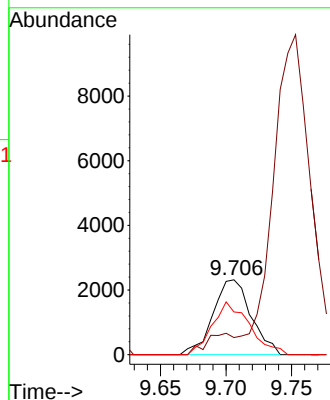
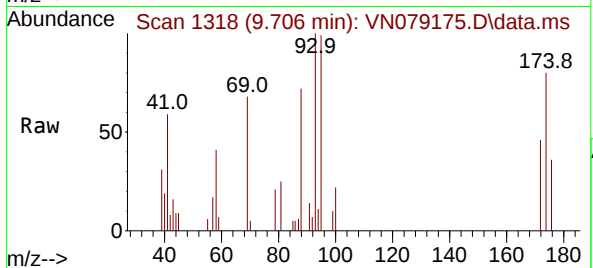
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 21.4  | 19.9  | 29.9  |
| 58  | 69.1  | 58.0  | 87.0  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#46

Methyl methacrylate

Concen: 4.775 ug/l

RT: 9.688 min Scan# 1315

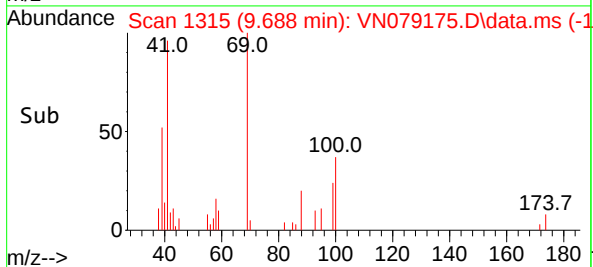
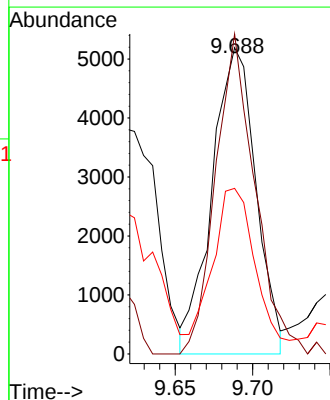
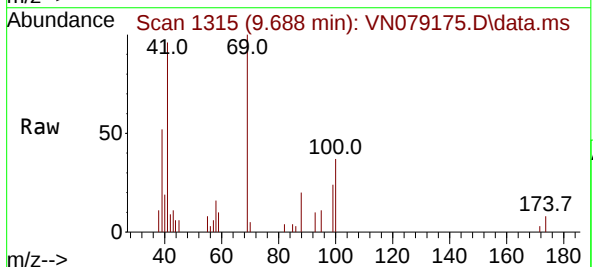
Delta R.T. -0.000 min

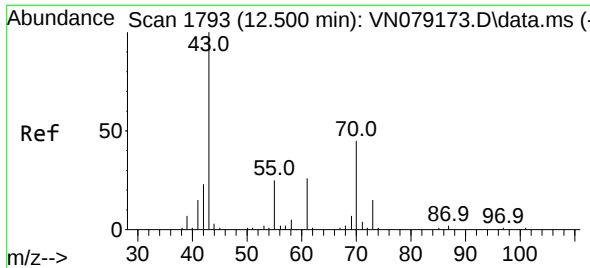
Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Tgt Ion: 41 Resp: 10237

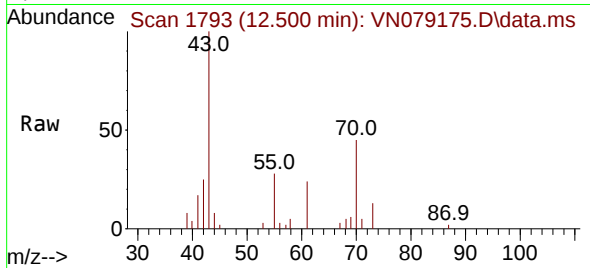
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 69  | 112.9 | 48.1  | 144.3 |
| 39  | 52.8  | 25.8  | 77.3  |





#47  
n-amy1 Acetate  
Concen: 4.434 ug/l  
RT: 12.500 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

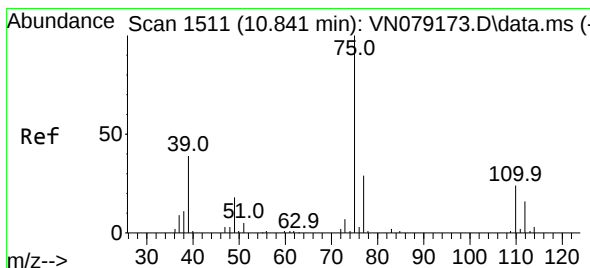
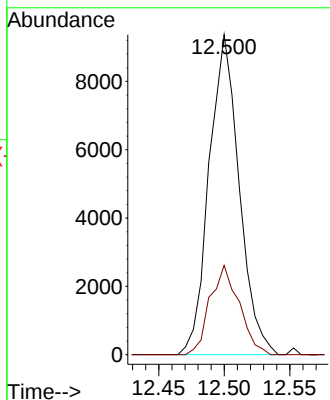
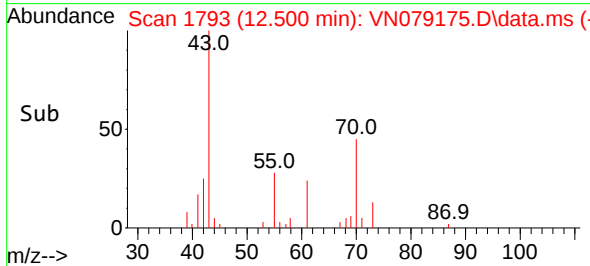
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion: 43 Resp: 14962  
Ion Ratio Lower Upper  
43 100  
55 27.1 20.5 30.7

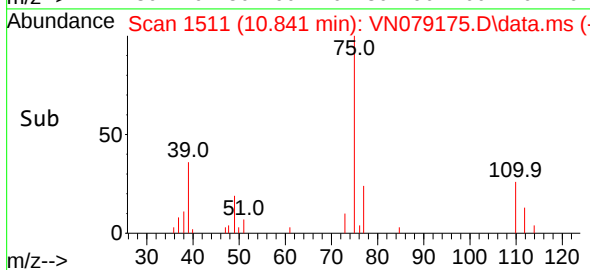
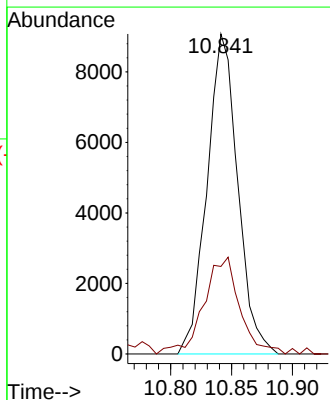
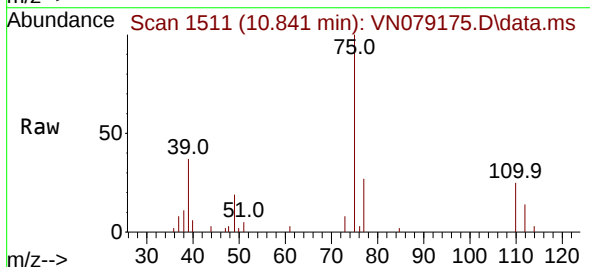
Manual Integrations  
APPROVED

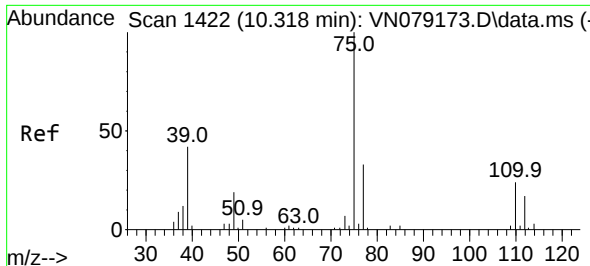
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#48  
t-1,3-Dichloropropene  
Concen: 4.895 ug/l  
RT: 10.841 min Scan# 1511  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion: 75 Resp: 15932  
Ion Ratio Lower Upper  
75 100  
77 25.5 22.9 34.3





#49

cis-1,3-Dichloropropene

Concen: 4.939 ug/l

RT: 10.318 min Scan# 1422

Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 16769

Ion Ratio Lower Upper

75 100

77 34.3 26.2 39.2

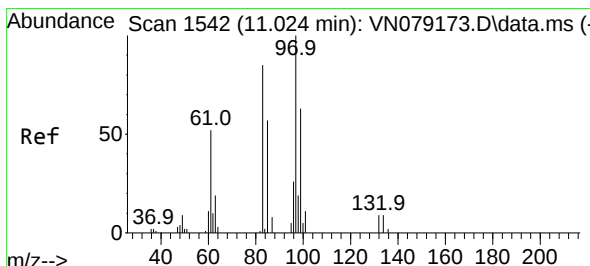
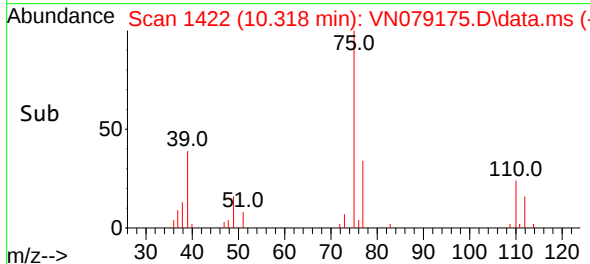
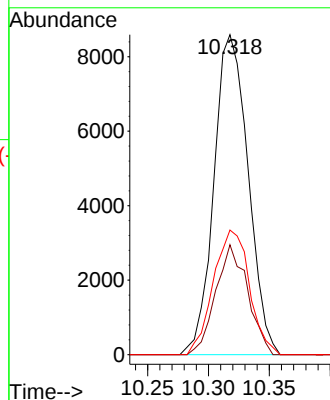
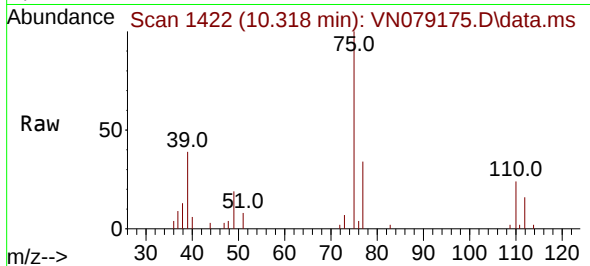
39 38.9 33.8 50.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#50

1,1,2-Trichloroethane

Concen: 5.138 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. -0.006 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Tgt Ion: 97 Resp: 10881

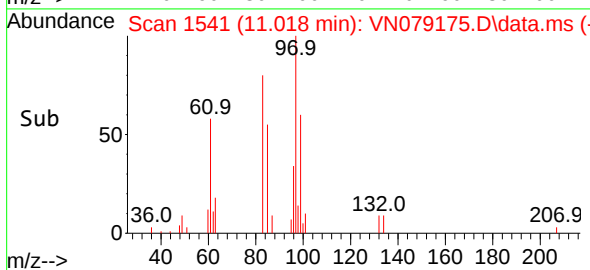
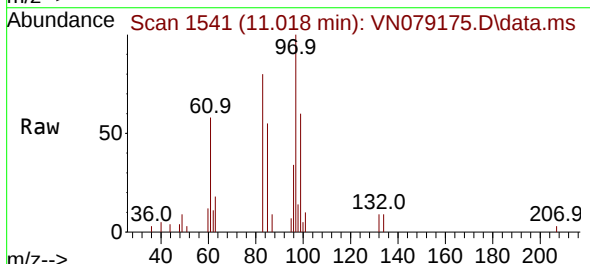
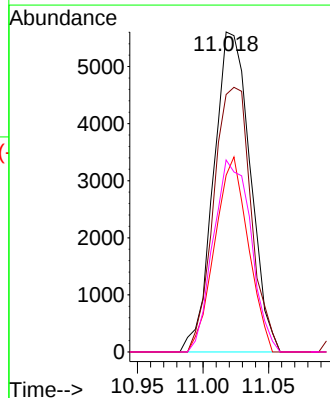
Ion Ratio Lower Upper

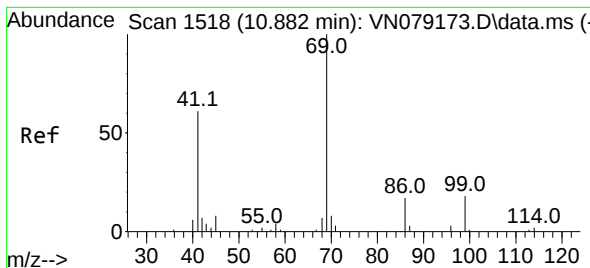
97 100

83 80.5 68.9 103.3

85 55.2 45.3 67.9

99 60.0 50.4 75.6





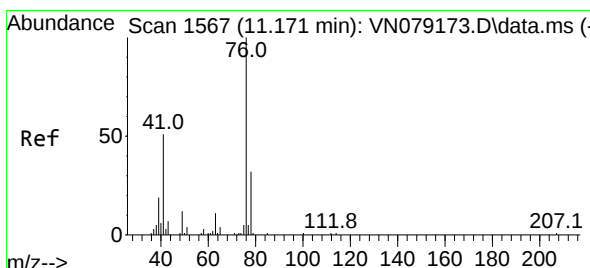
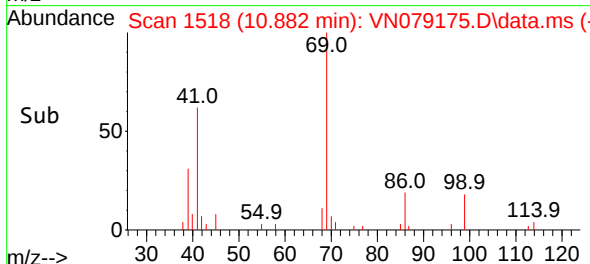
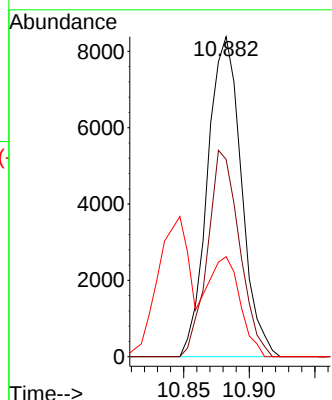
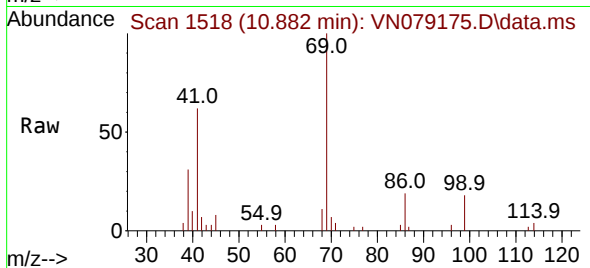
#51  
Ethyl methacrylate  
Concen: 4.601 ug/l  
RT: 10.882 min Scan# 1518  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 69 Resp: 1504  
Ion Ratio Lower Upper  
69 100  
41 61.6 30.3 90.9  
39 31.3 13.4 40.1

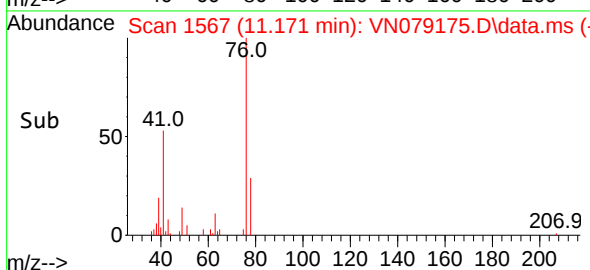
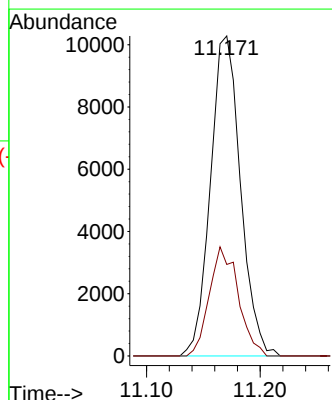
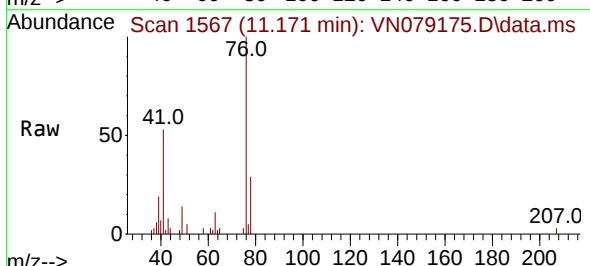
Manual Integrations  
APPROVED

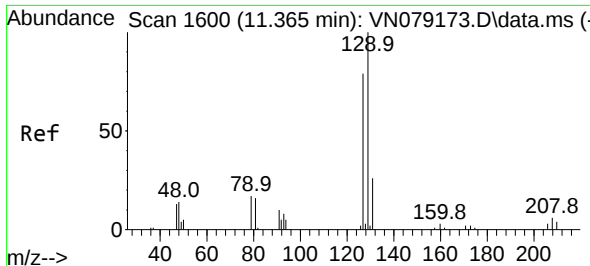
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#52  
1,3-Dichloropropane  
Concen: 5.237 ug/l  
RT: 11.171 min Scan# 1567  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

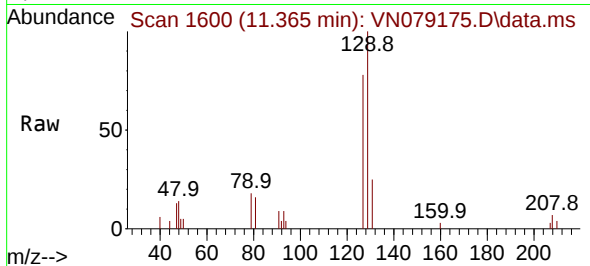
Tgt Ion: 76 Resp: 18928  
Ion Ratio Lower Upper  
76 100  
78 32.8 0.0 64.2





#53  
Dibromochloromethane  
Concen: 5.182 ug/l  
RT: 11.365 min Scan# 1600  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

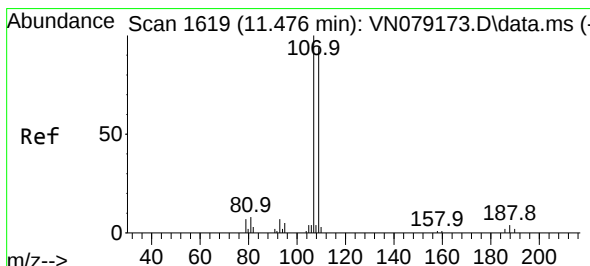
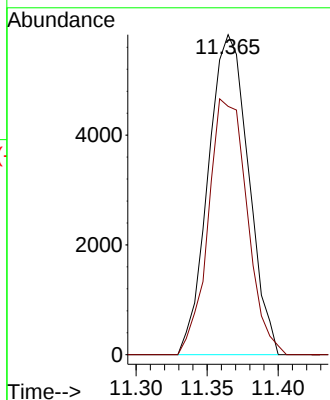
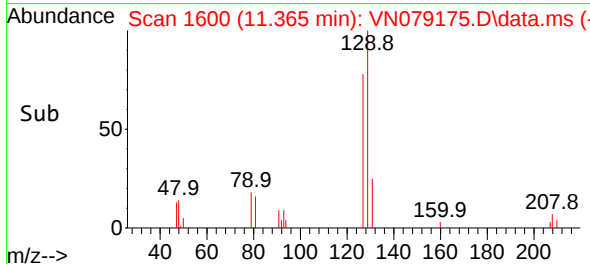
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



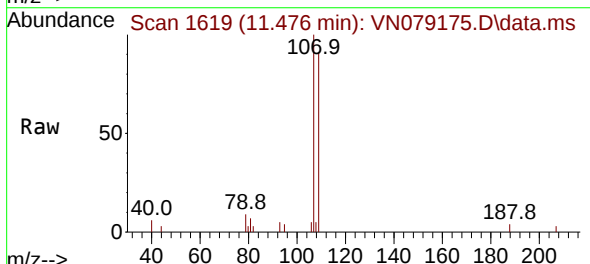
Tgt Ion:129 Resp: 11500  
Ion Ratio Lower Upper  
129 100  
127 77.0 38.7 116.1

Manual Integrations  
APPROVED

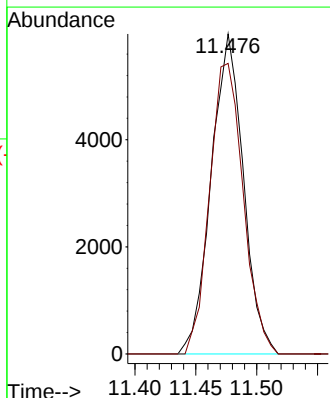
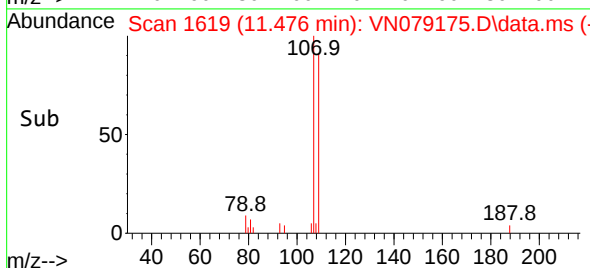
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023

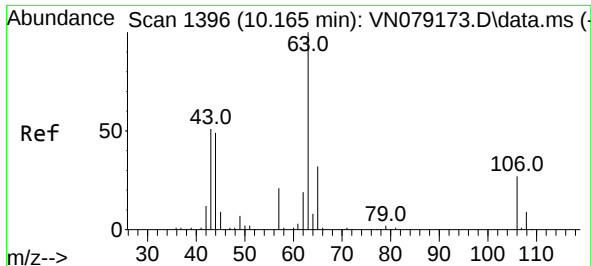


#54  
1,2-Dibromoethane  
Concen: 5.105 ug/l  
RT: 11.476 min Scan# 1619  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32



Tgt Ion:107 Resp: 10964  
Ion Ratio Lower Upper  
107 100  
109 94.9 76.4 114.6





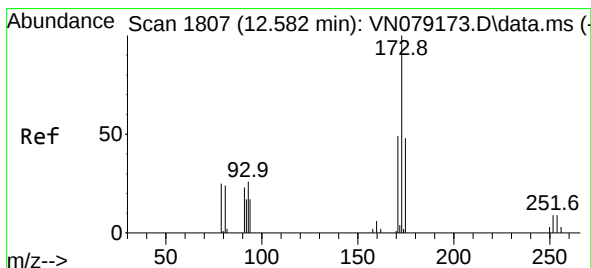
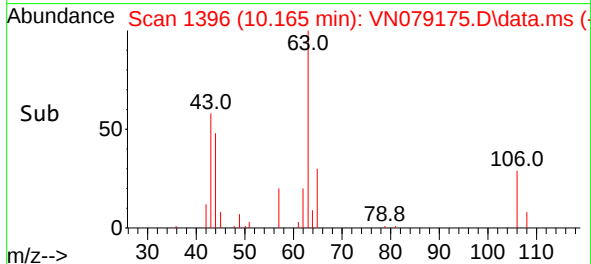
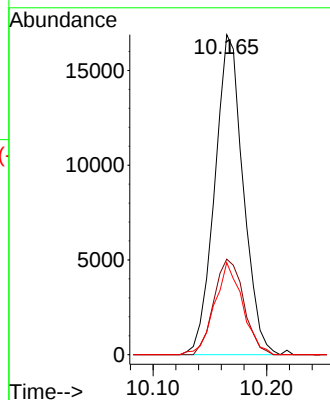
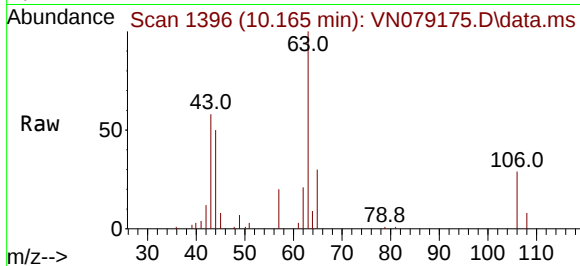
#55  
2-Chloroethyl vinyl ether  
Concen: 25.314 ug/l  
RT: 10.165 min Scan# 1396  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 63 Resp: 29410  
Ion Ratio Lower Upper  
63 100  
65 31.1 25.7 38.5  
106 28.3 21.9 32.9

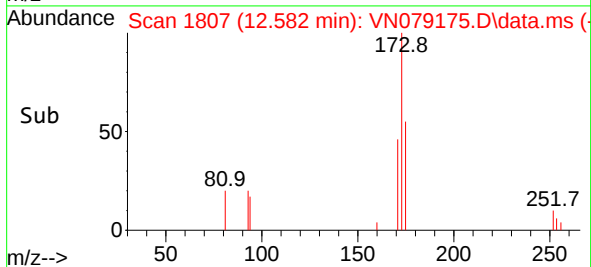
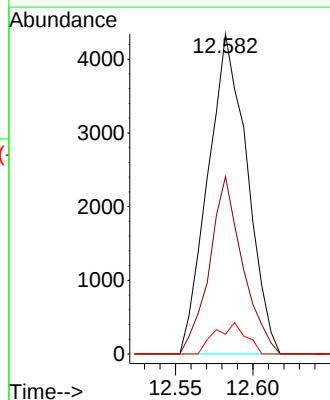
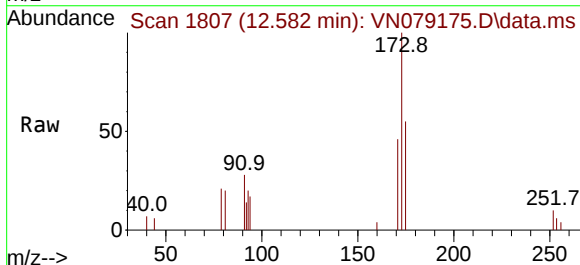
Manual Integrations  
APPROVED

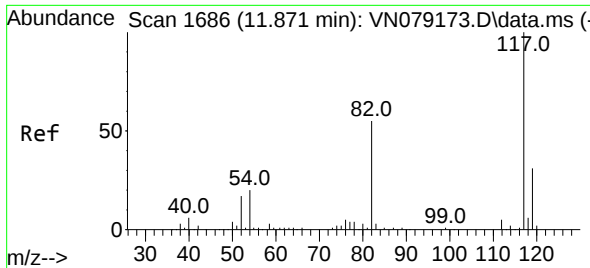
Reviewed By :John Carbone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#56  
Bromoform  
Concen: 4.929 ug/l  
RT: 12.582 min Scan# 1807  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion:173 Resp: 7620  
Ion Ratio Lower Upper  
173 100  
175 47.0 37.6 56.4  
254 7.7 7.8 11.8#





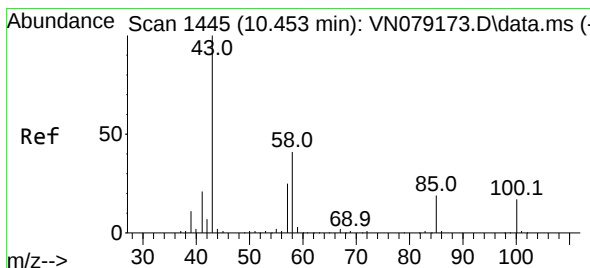
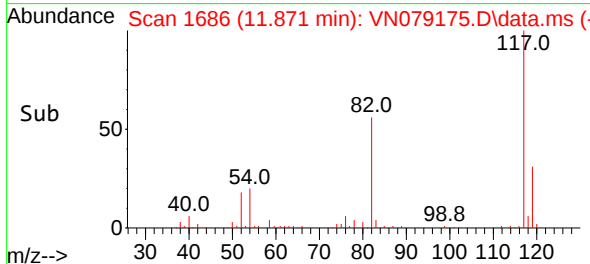
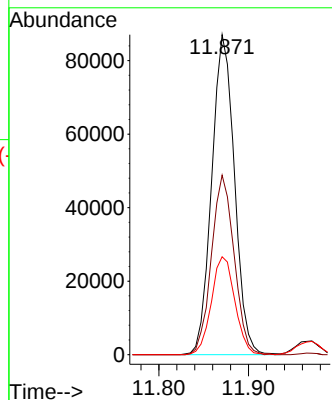
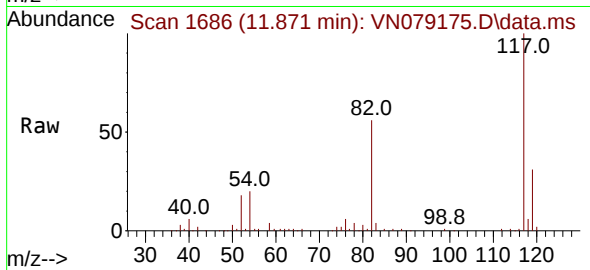
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.871 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion:117 Resp: 15332  
Ion Ratio Lower Upper  
117 100  
82 55.9 44.7 67.1  
119 31.6 24.9 37.3

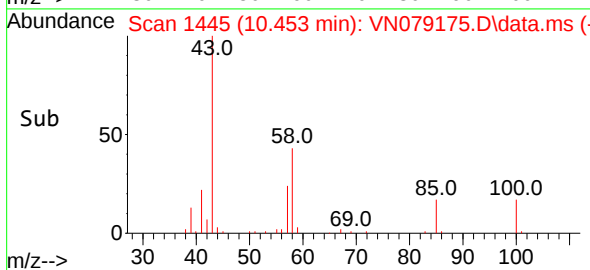
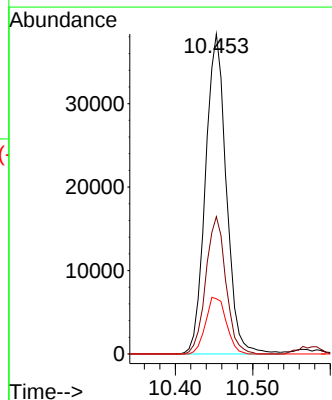
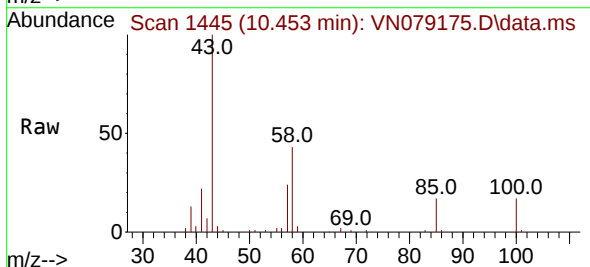
Manual Integrations  
APPROVED

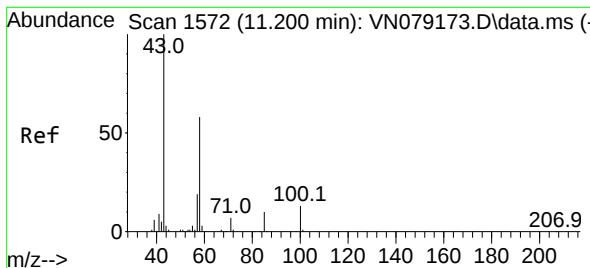
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#58  
4-Methyl-2-Pentanone  
Concen: 25.449 ug/l  
RT: 10.453 min Scan# 1445  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

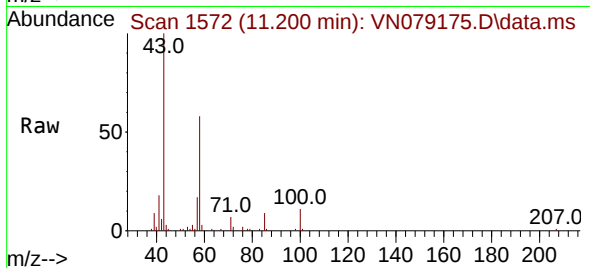
Tgt Ion: 43 Resp: 71603  
Ion Ratio Lower Upper  
43 100  
58 41.3 33.6 50.4  
85 17.6 15.0 22.4





#59  
2-Hexanone  
Concen: 26.383 ug/l  
RT: 11.200 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

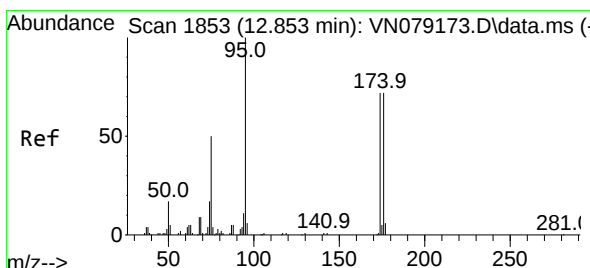
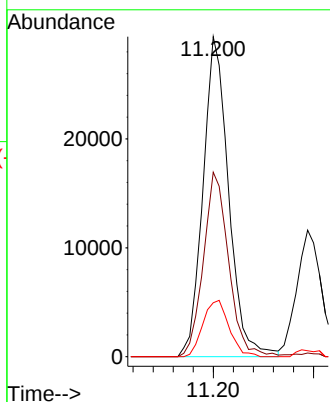
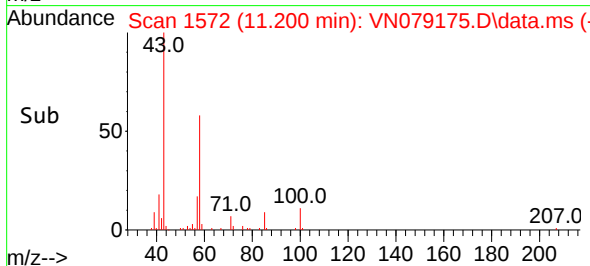
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



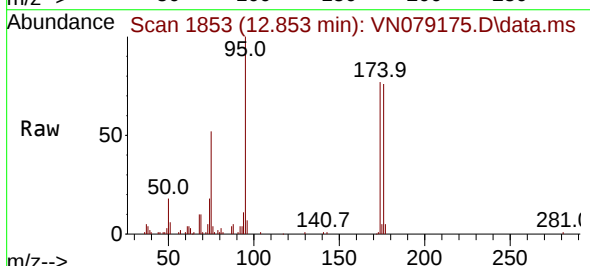
Tgt Ion: 43 Resp: 5213  
Ion Ratio Lower Upper  
43 100  
58 56.8 46.4 69.6  
57 17.8 15.3 22.9

Manual Integrations  
APPROVED

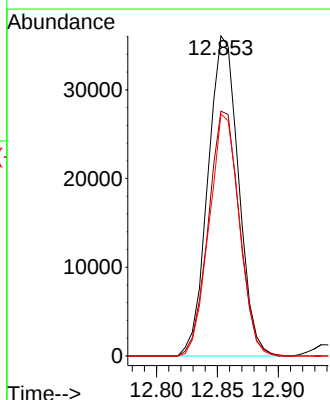
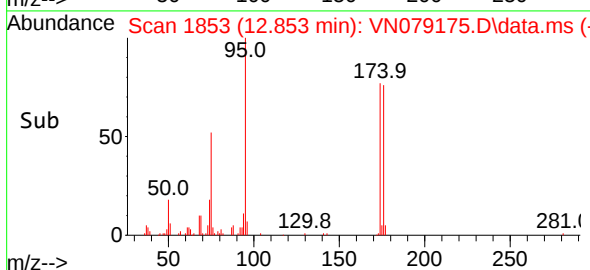
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023

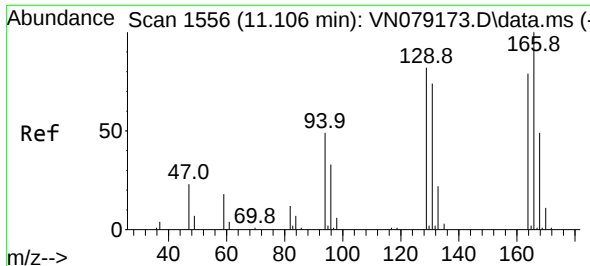


#60  
4-Bromofluorobenzene  
Concen: 27.882 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32



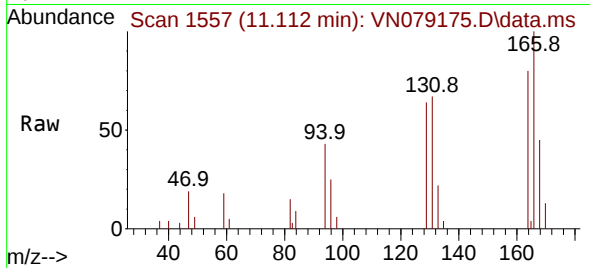
Tgt Ion: 95 Resp: 62991  
Ion Ratio Lower Upper  
95 100  
174 77.6 59.5 89.3  
176 74.8 59.1 88.7





#61  
Tetrachloroethene  
Concen: 5.489 ug/l  
RT: 11.112 min Scan# 1557  
Delta R.T. 0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

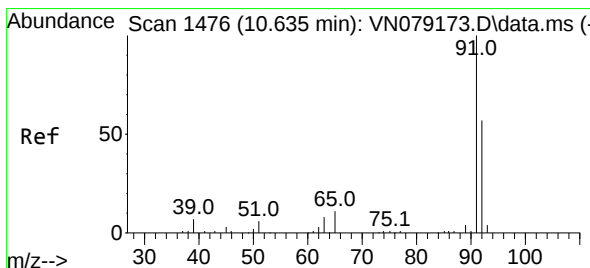
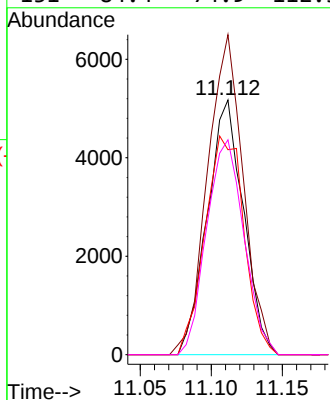
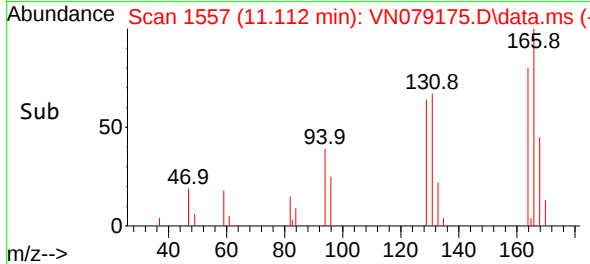
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



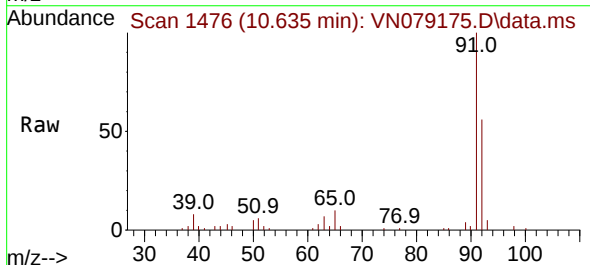
Tgt Ion:164 Resp: 9158  
Ion Ratio Lower Upper  
164 100  
166 125.6 101.9 152.9  
129 80.5 83.4 125.0  
131 84.4 74.9 112.3

Manual Integrations  
APPROVED

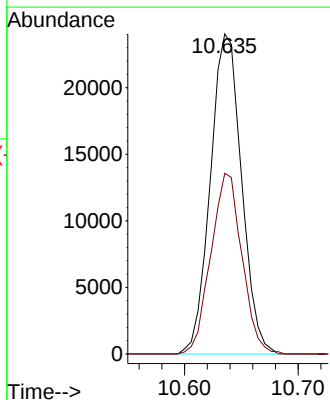
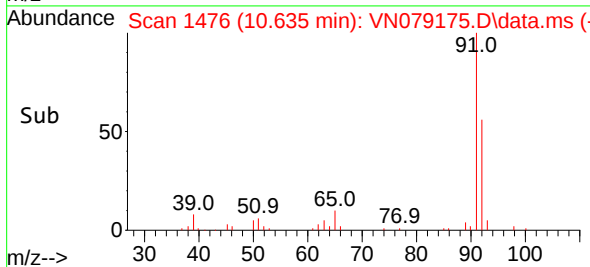
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023

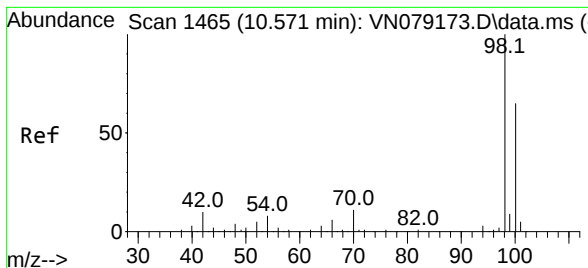


#62  
Toluene  
Concen: 5.133 ug/l  
RT: 10.635 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32



Tgt Ion: 91 Resp: 45824  
Ion Ratio Lower Upper  
91 100  
92 56.2 45.7 68.5





#63

Toluene-d8

Concen: 30.108 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 98 Resp: 21574

Ion Ratio Lower Upper

98 100

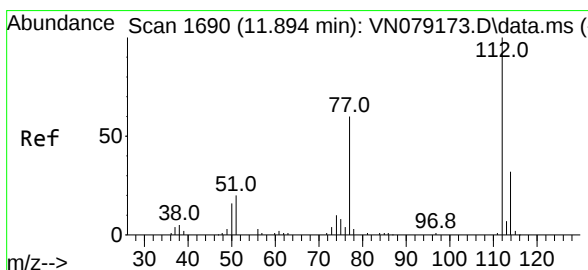
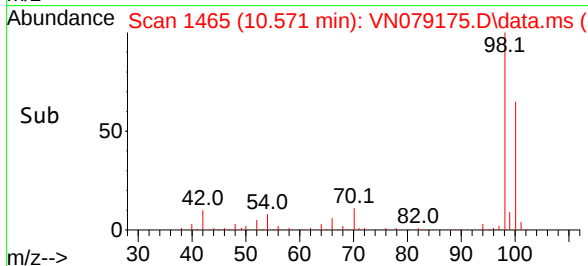
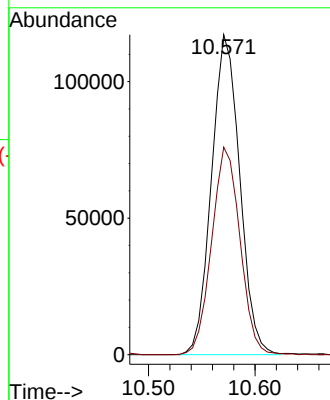
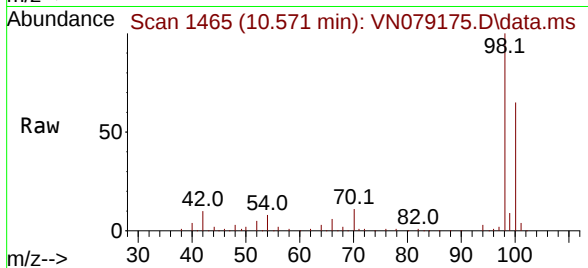
100 65.0 52.5 78.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#64

Chlorobenzene

Concen: 5.156 ug/l

RT: 11.900 min Scan# 1691

Delta R.T. 0.006 min

Lab File: VN079175.D

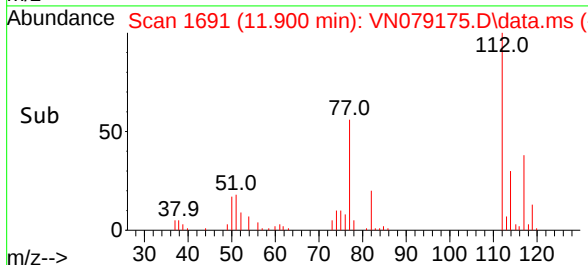
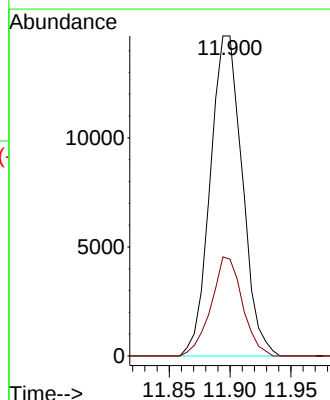
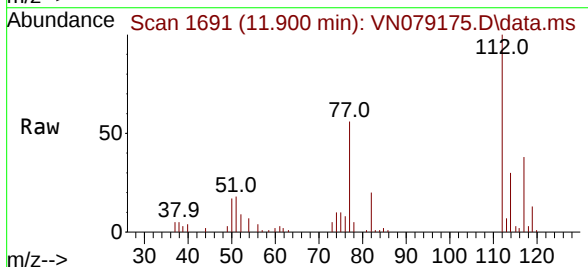
Acq: 07 Sep 2023 11:32

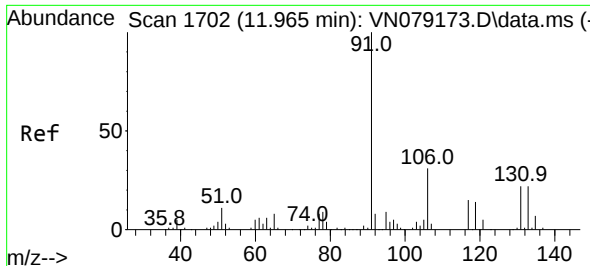
Tgt Ion:112 Resp: 26853

Ion Ratio Lower Upper

112 100

114 30.2 25.6 38.4





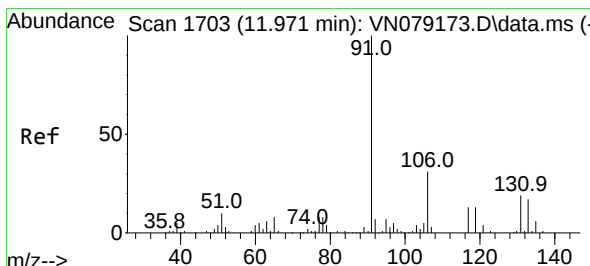
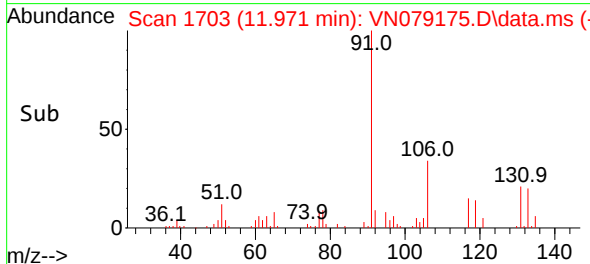
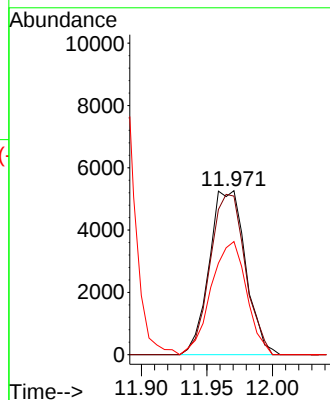
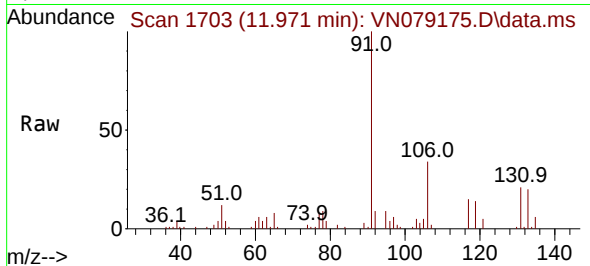
#65  
1,1,1,2-Tetrachloroethane  
Concen: 5.092 ug/l  
RT: 11.971 min Scan# 1703  
Delta R.T. 0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005

Tgt Ion:131 Resp: 10152  
Ion Ratio Lower Upper  
131 100  
133 94.8 0.0 193.0  
119 67.1 0.0 131.2

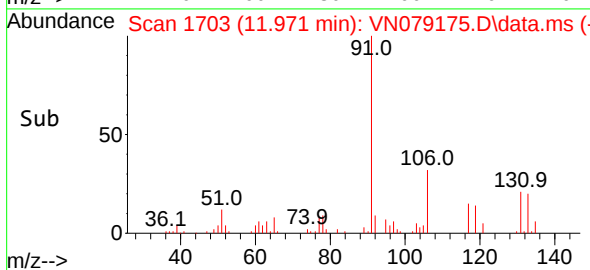
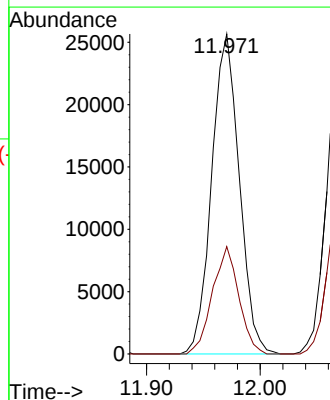
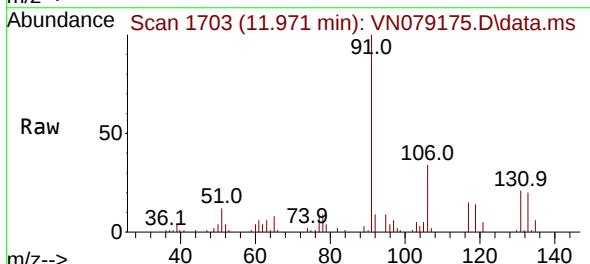
Manual Integrations  
APPROVED

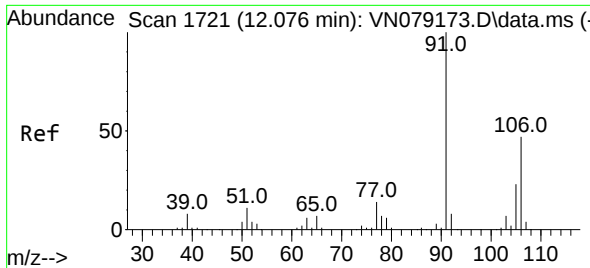
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#66  
Ethyl Benzene  
Concen: 4.819 ug/l  
RT: 11.971 min Scan# 1703  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion: 91 Resp: 43317  
Ion Ratio Lower Upper  
91 100  
106 33.6 25.0 37.6





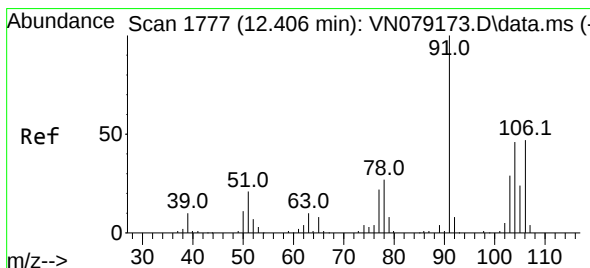
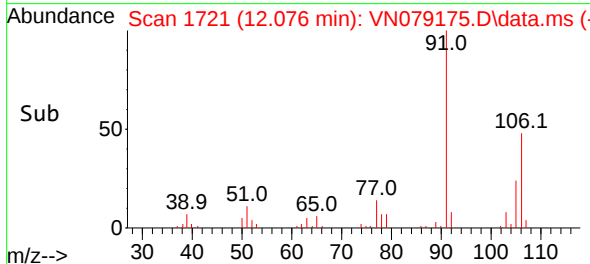
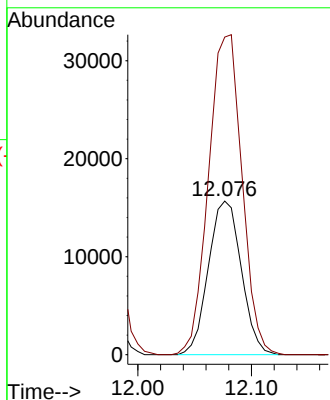
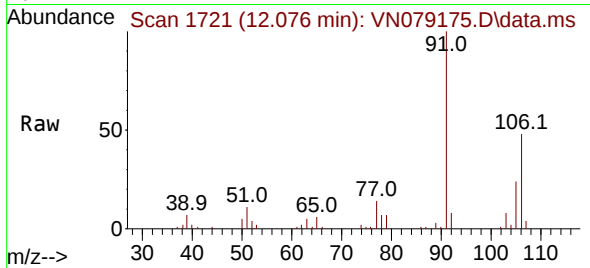
#67  
m/p-Xylenes  
Concen: 9.334 ug/l  
RT: 12.076 min Scan# 1721  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion:106 Resp: 31570  
Ion Ratio Lower Upper  
106 100  
91 211.7 165.2 247.8

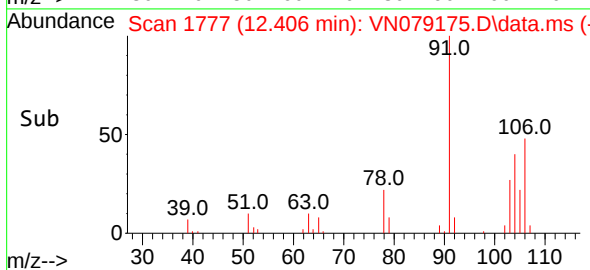
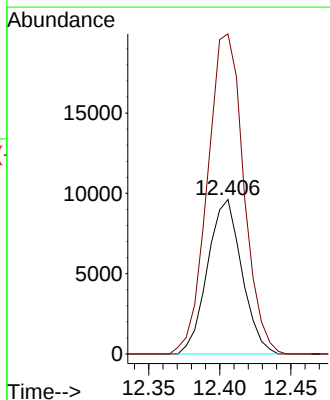
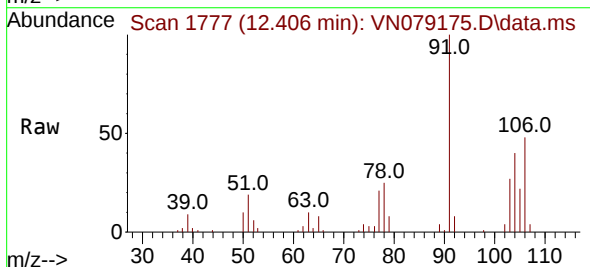
Manual Integrations  
APPROVED

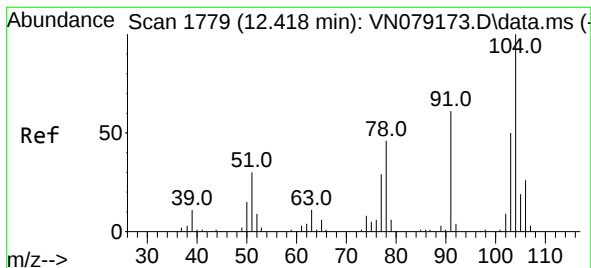
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#68  
o-Xylene  
Concen: 4.950 ug/l  
RT: 12.406 min Scan# 1777  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion:106 Resp: 16152  
Ion Ratio Lower Upper  
106 100  
91 218.6 109.7 329.1





#69

Styrene

Concen: 4.684 ug/l

RT: 12.418 min Scan# 1779

Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

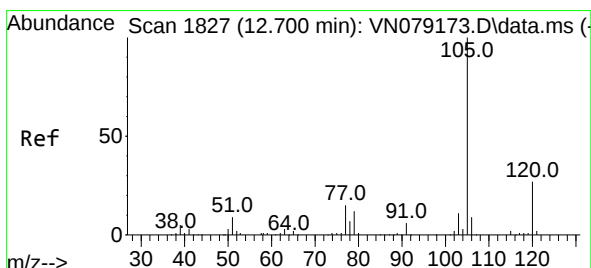
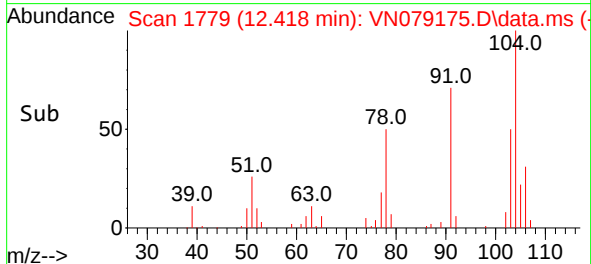
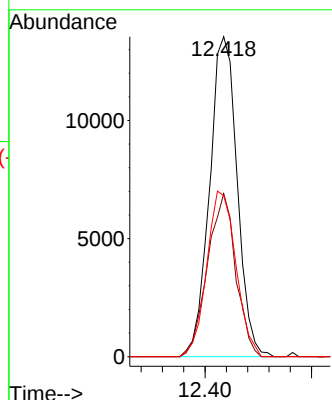
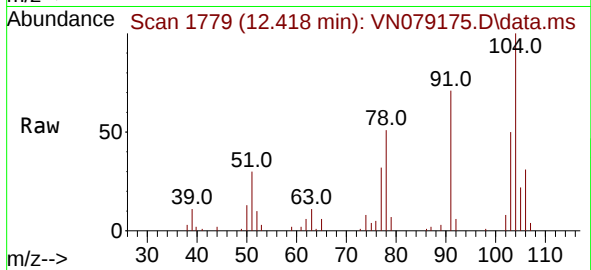
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 104   | Resp: | 2437 |
| Ion Ratio | Lower | Upper |      |
| 104       | 100   |       |      |
| 78        | 51.9  | 40.5  | 60.7 |
| 103       | 54.5  | 43.3  | 64.9 |

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#70

Isopropylbenzene

Concen: 4.853 ug/l

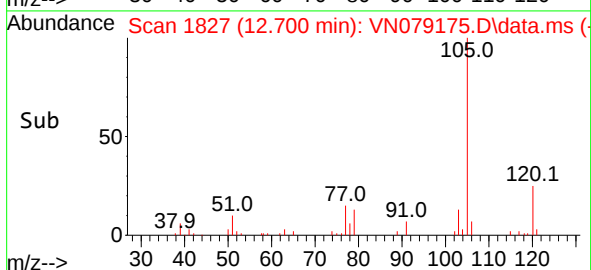
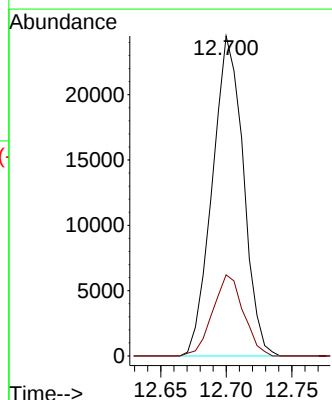
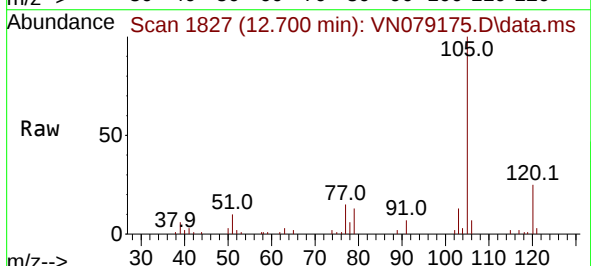
RT: 12.700 min Scan# 1827

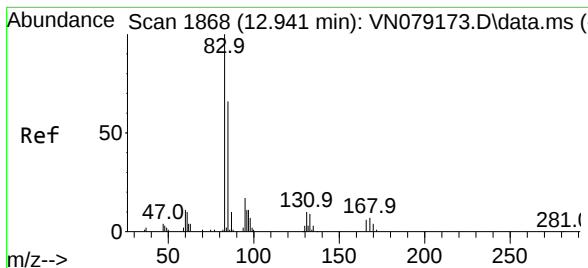
Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

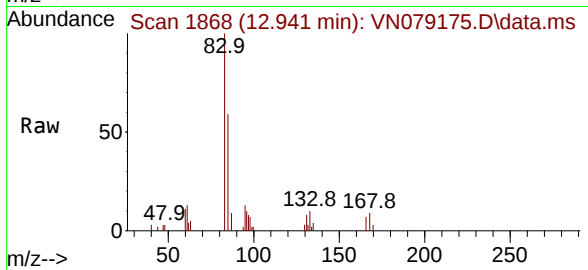
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 40235 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 25.1  | 18.5  | 34.3  |





#71  
1,1,2,2-Tetrachloroethane  
Concen: 5.328 ug/l  
RT: 12.941 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

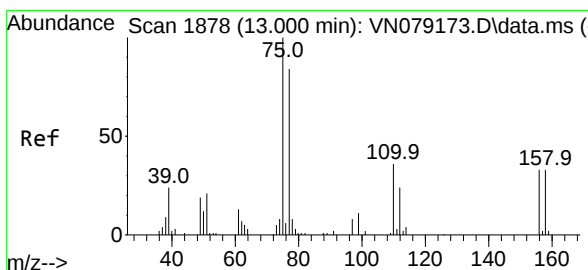
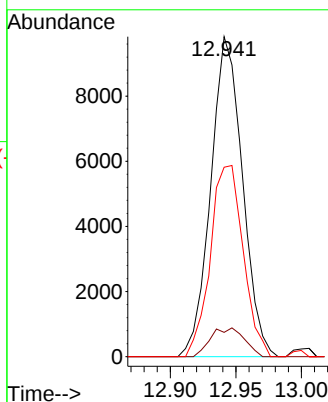
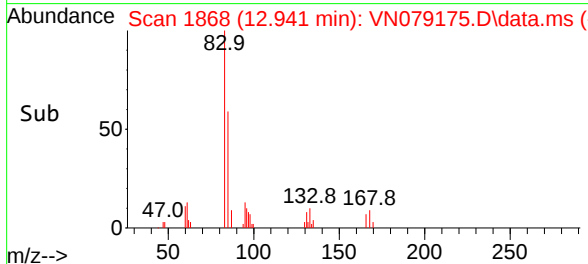
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



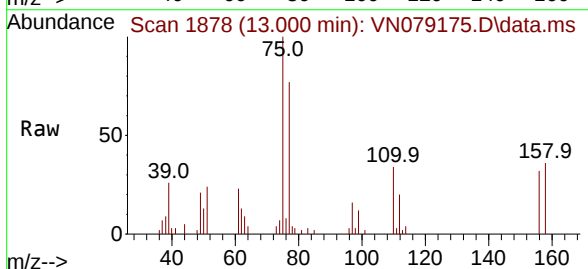
Tgt Ion: 83 Resp: 16524  
Ion Ratio Lower Upper  
83 100  
131 9.6 4.9 14.6  
85 61.8 33.1 99.3

Manual Integrations  
APPROVED

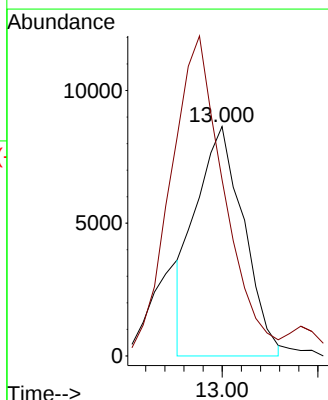
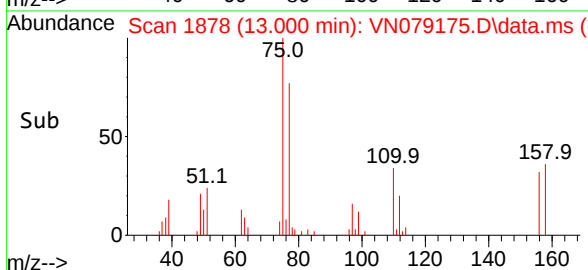
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023

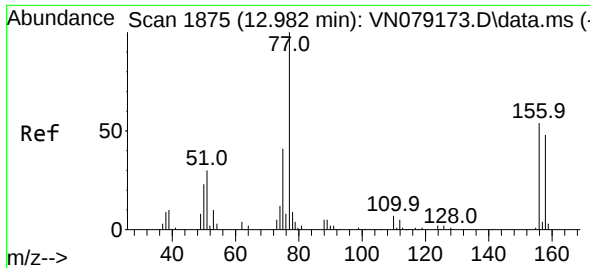


#72  
1,2,3-Trichloropropane  
Concen: 5.316 ug/l m  
RT: 13.000 min Scan# 1878  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32



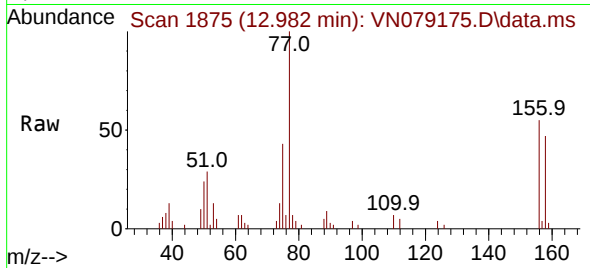
Tgt Ion: 75 Resp: 15010  
Ion Ratio Lower Upper  
75 100  
77 156.4 0.0 252.2





#73  
Bromobenzene  
Concen: 4.969 ug/l  
RT: 12.982 min Scan# 1875  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

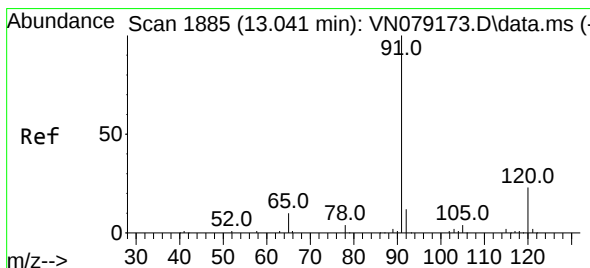
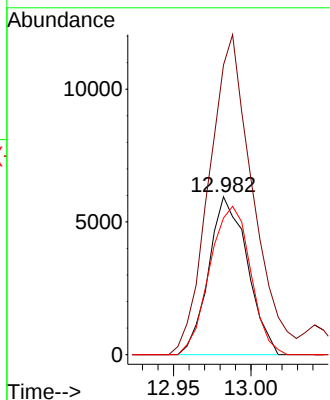
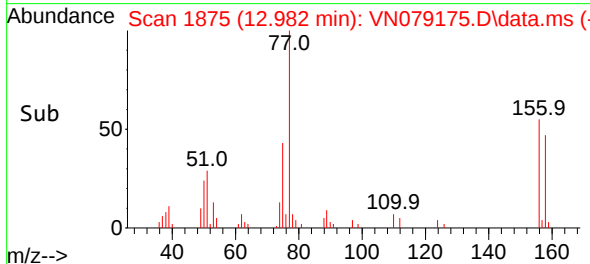
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



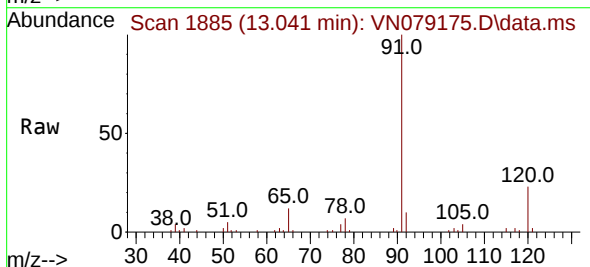
Tgt Ion:156 Resp: 10292  
Ion Ratio Lower Upper  
156 100  
77 228.0 0.0 446.6  
158 99.2 0.0 188.6

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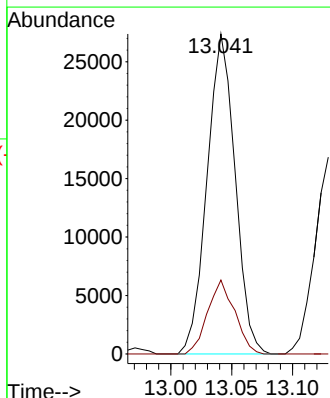
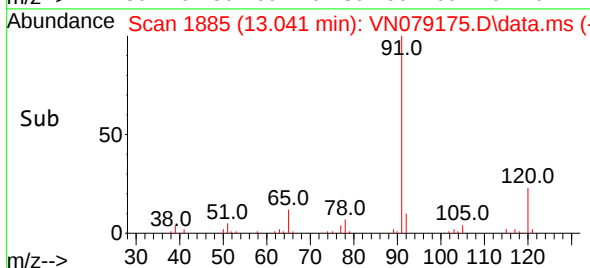
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023

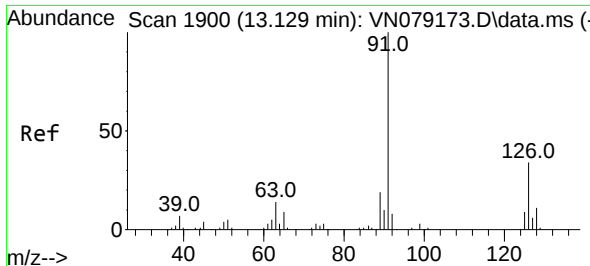


#74  
n-propylbenzene  
Concen: 4.650 ug/l  
RT: 13.041 min Scan# 1885  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32



Tgt Ion: 91 Resp: 43931  
Ion Ratio Lower Upper  
91 100  
120 22.3 0.0 44.0





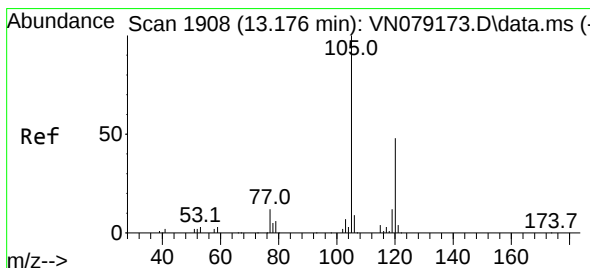
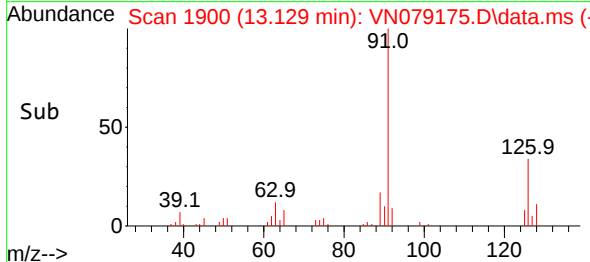
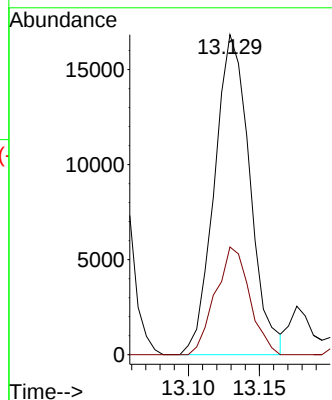
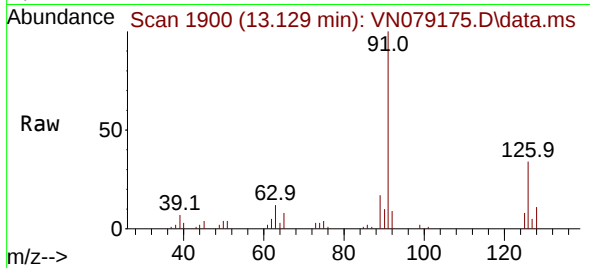
#75  
2-Chlorotoluene  
Concen: 4.827 ug/l  
RT: 13.129 min Scan# 1900  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion: 91 Resp: 29239  
Ion Ratio Lower Upper  
91 100  
126 32.4 0.0 65.4

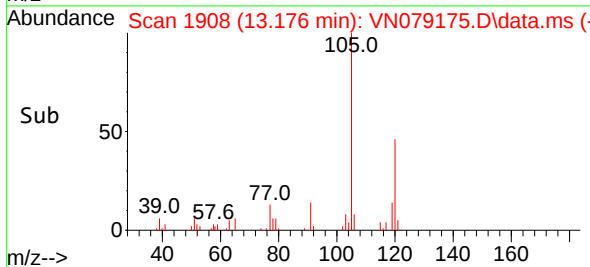
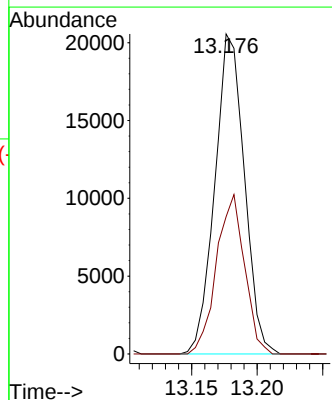
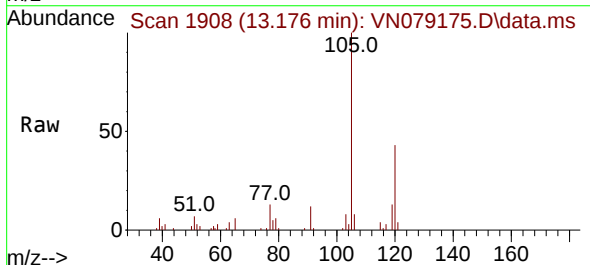
Manual Integrations  
APPROVED

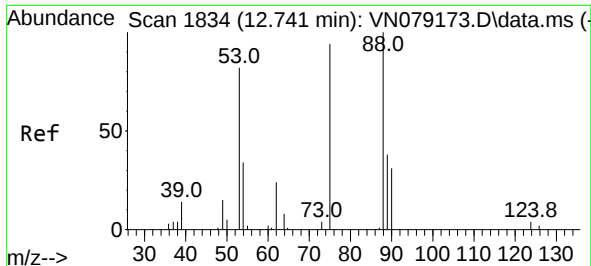
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#76  
1,3,5-Trimethylbenzene  
Concen: 4.693 ug/l  
RT: 13.176 min Scan# 1908  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion:105 Resp: 32175  
Ion Ratio Lower Upper  
105 100  
120 47.3 0.0 95.6





#77

t-1,4-Dichloro-2-butene

Concen: 4.829 ug/l

RT: 12.747 min Scan# 1835

Delta R.T. 0.006 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 443

Ion Ratio Lower Upper

75 100

53 92.1 44.1 132.4

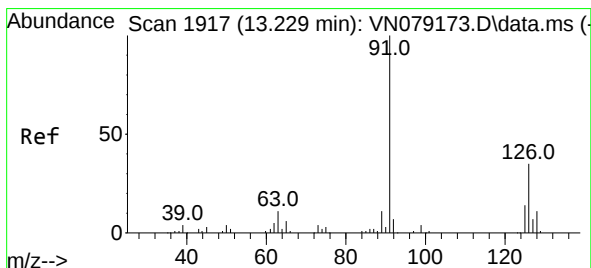
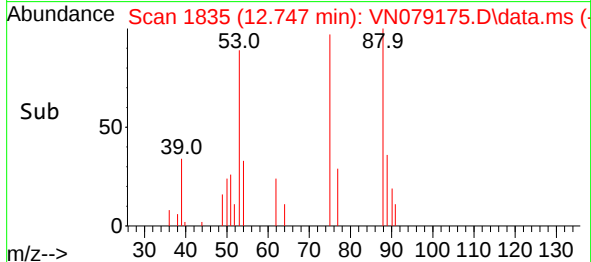
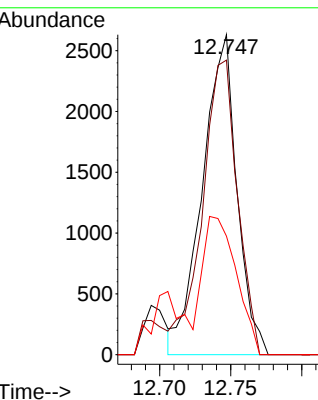
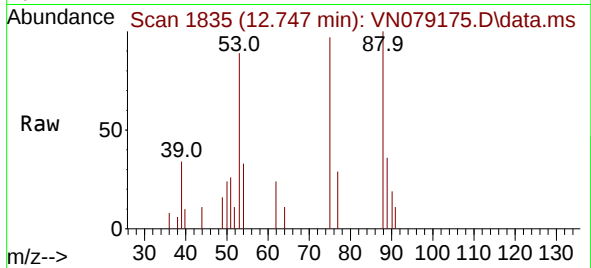
89 37.1 22.4 67.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#78

4-Chlorotoluene

Concen: 4.643 ug/l

RT: 13.229 min Scan# 1917

Delta R.T. -0.000 min

Lab File: VN079175.D

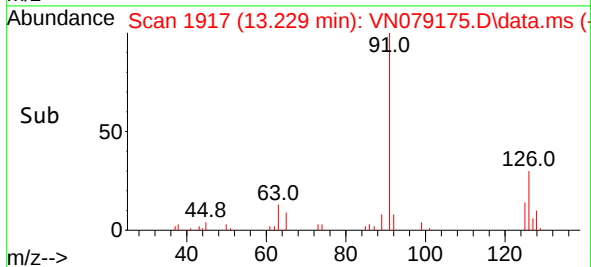
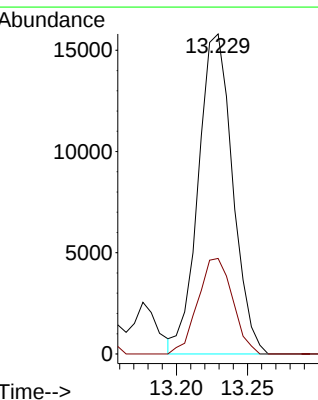
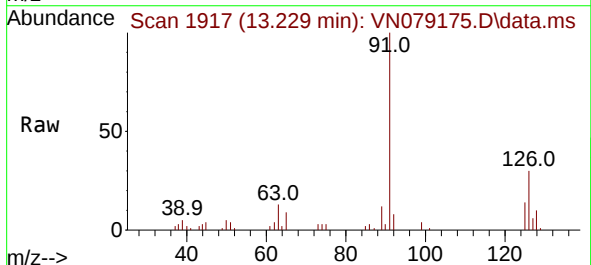
Acq: 07 Sep 2023 11:32

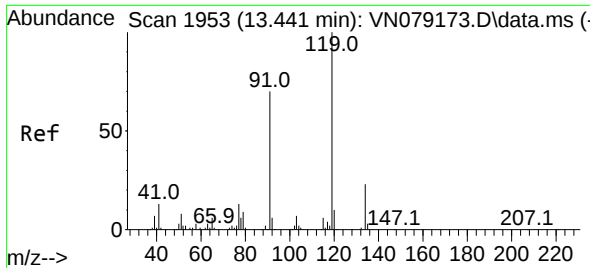
Tgt Ion: 91 Resp: 26555

Ion Ratio Lower Upper

91 100

126 30.2 0.0 66.6





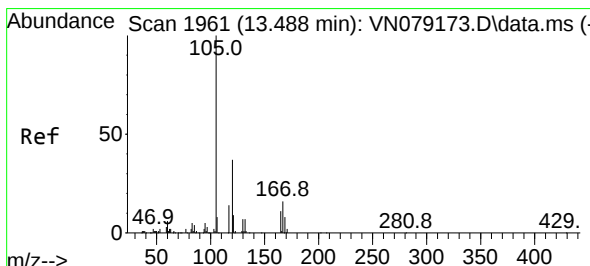
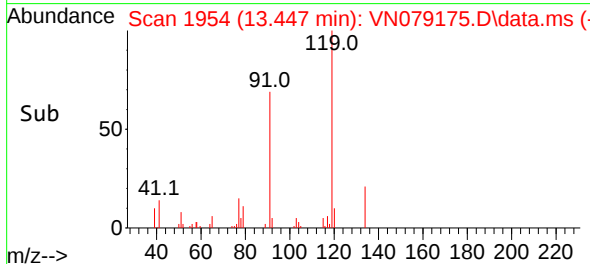
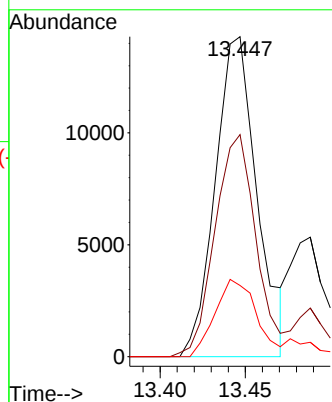
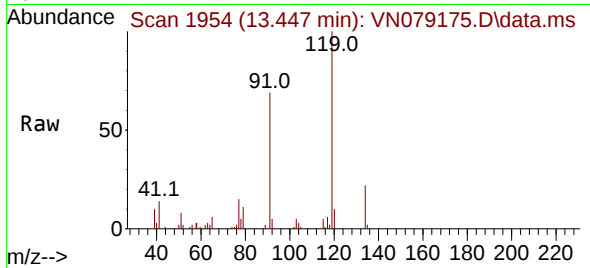
#79  
tert-butylbenzene  
Concen: 4.331 ug/l  
RT: 13.447 min Scan# 1954  
Delta R.T. 0.006 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005

Tgt Ion:119 Resp: 2437  
Ion Ratio Lower Upper  
119 100  
91 67.9 0.0 130.8  
134 23.9 0.0 48.8

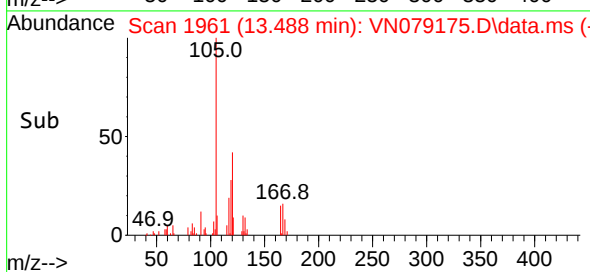
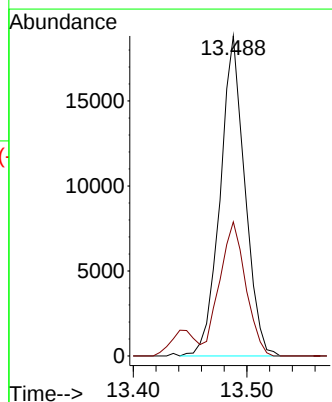
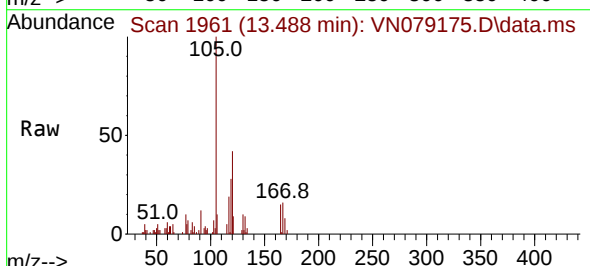
Manual Integrations  
APPROVED

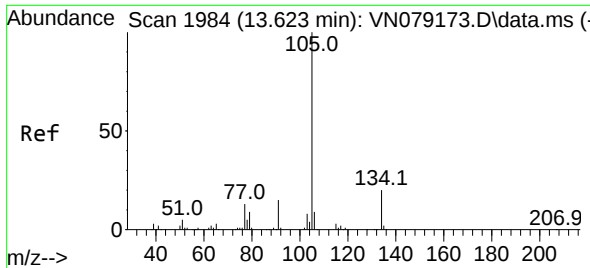
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#80  
1,2,4-Trimethylbenzene  
Concen: 4.341 ug/l  
RT: 13.488 min Scan# 1961  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

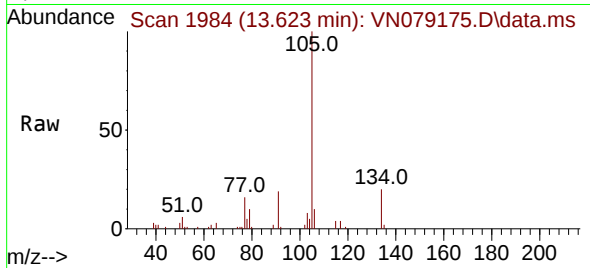
Tgt Ion:105 Resp: 28422  
Ion Ratio Lower Upper  
105 100  
120 44.4 0.0 90.0





#81  
 sec-Butylbenzene  
 Concen: 4.634 ug/l  
 RT: 13.623 min Scan# 1984  
 Delta R.T. -0.000 min  
 Lab File: VN079175.D  
 Acq: 07 Sep 2023 11:32

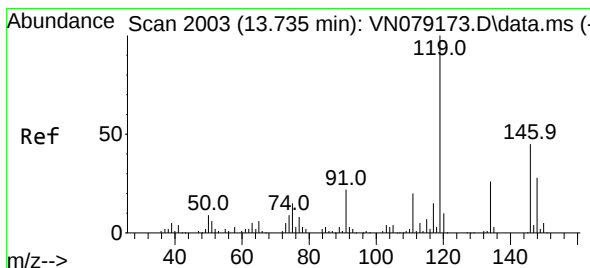
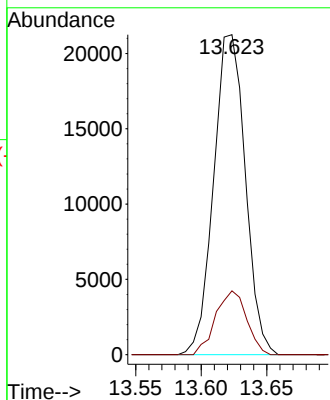
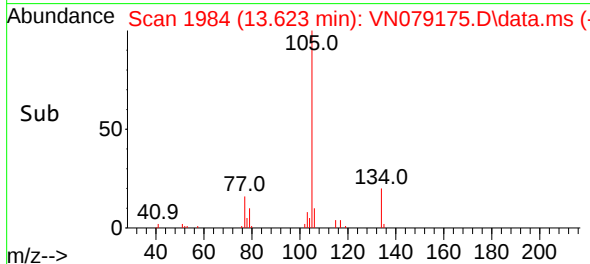
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005



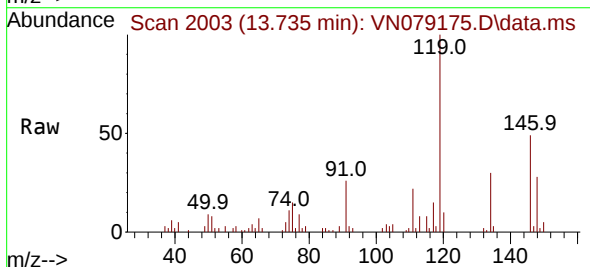
Tgt Ion:105 Resp: 35680  
 Ion Ratio Lower Upper  
 105 100  
 134 19.6 0.0 38.6

Manual Integrations  
 APPROVED

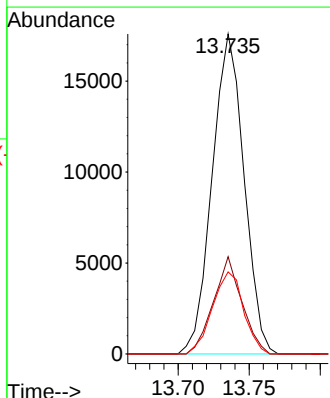
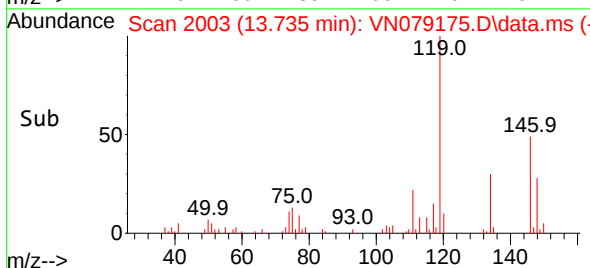
Reviewed By :John Carlone 09/08/2023  
 Supervised By :Mahesh Dadoda 09/08/2023

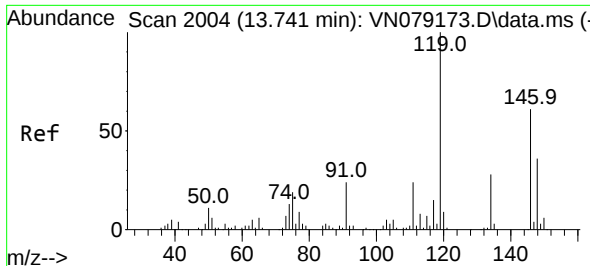


#82  
 p-Isopropyltoluene  
 Concen: 4.514 ug/l  
 RT: 13.735 min Scan# 2003  
 Delta R.T. -0.000 min  
 Lab File: VN079175.D  
 Acq: 07 Sep 2023 11:32



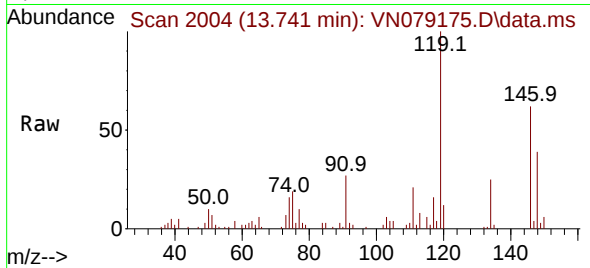
Tgt Ion:119 Resp: 27454  
 Ion Ratio Lower Upper  
 119 100  
 134 27.1 0.0 53.8  
 91 25.1 0.0 48.0





#83  
 1,3-Dichlorobenzene  
 Concen: 4.744 ug/l  
 RT: 13.741 min Scan# 2004  
 Delta R.T. -0.000 min  
 Lab File: VN079175.D  
 Acq: 07 Sep 2023 11:32

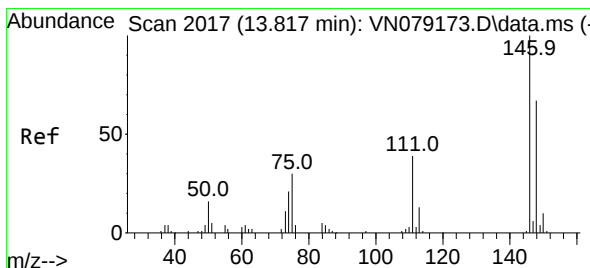
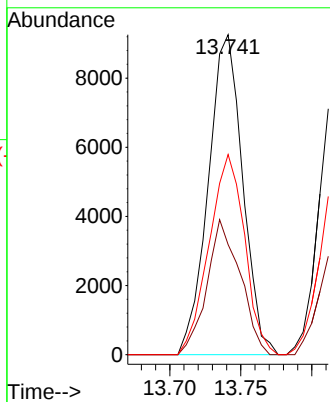
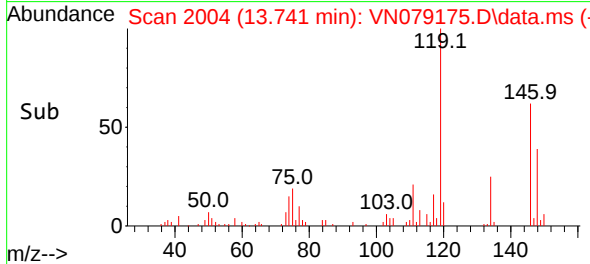
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC005



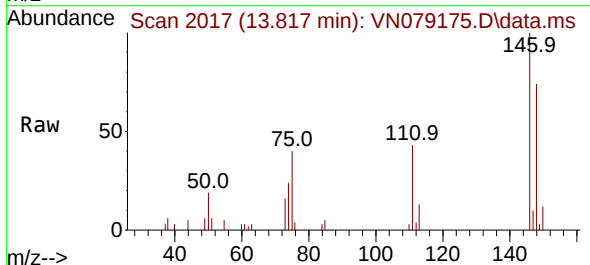
Tgt Ion:146 Resp: 1560  
 Ion Ratio Lower Upper  
 146 100  
 111 40.6 20.5 61.5  
 148 64.6 31.8 95.3

Manual Integrations  
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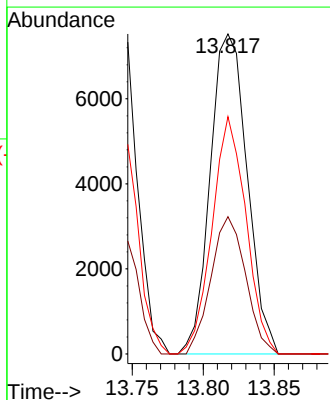
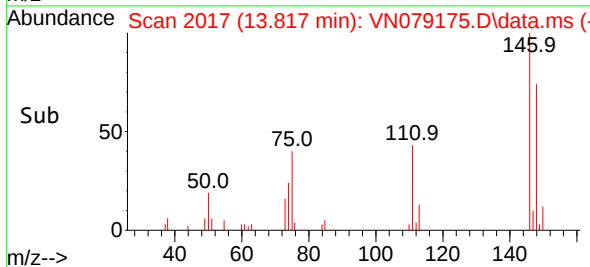
Reviewed By :John Carbone 09/08/2023  
 Supervised By :Mahesh Dadoda 09/08/2023

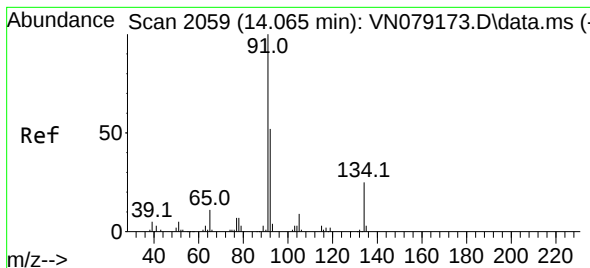


#84  
 1,4-Dichlorobenzene  
 Concen: 4.419 ug/l  
 RT: 13.817 min Scan# 2017  
 Delta R.T. -0.000 min  
 Lab File: VN079175.D  
 Acq: 07 Sep 2023 11:32



Tgt Ion:146 Resp: 13631  
 Ion Ratio Lower Upper  
 146 100  
 111 40.2 19.5 58.5  
 148 68.0 32.1 96.5





#85

n-Butylbenzene

Concen: 4.331 ug/l

RT: 14.065 min Scan# 2059

Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

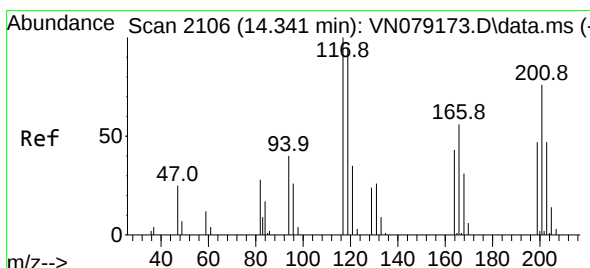
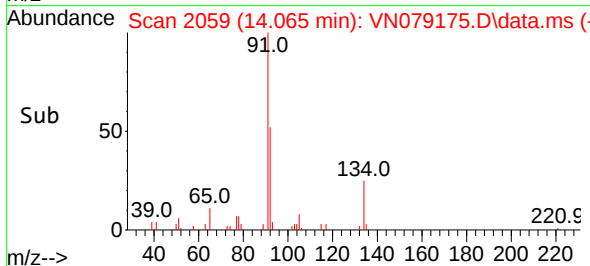
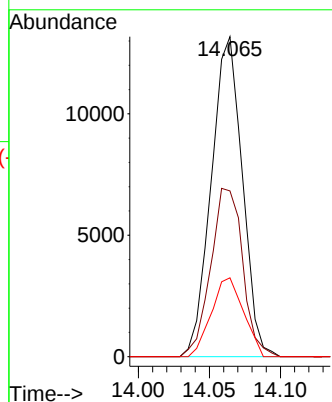
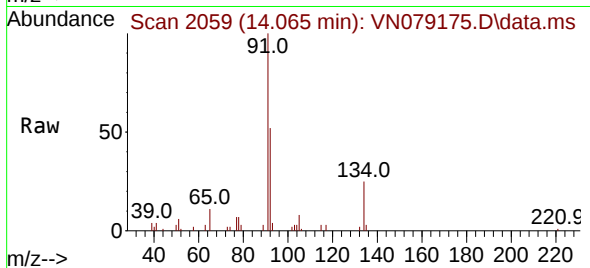
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 2059  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 54.2  | 0.0   | 105.0 |
| 134      | 25.5  | 0.0   | 49.6  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#86

Hexachloroethane

Concen: 4.838 ug/l

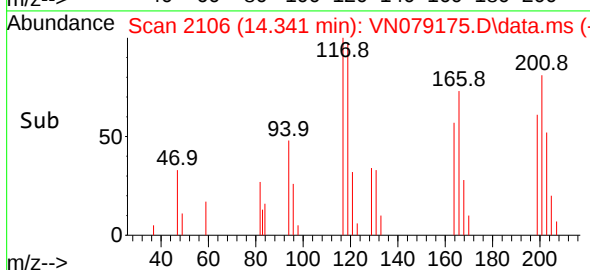
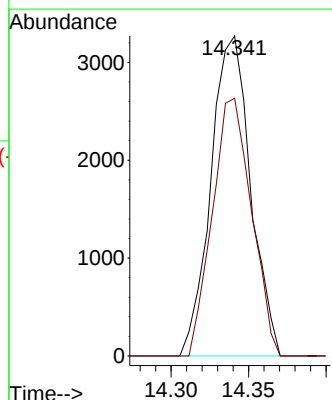
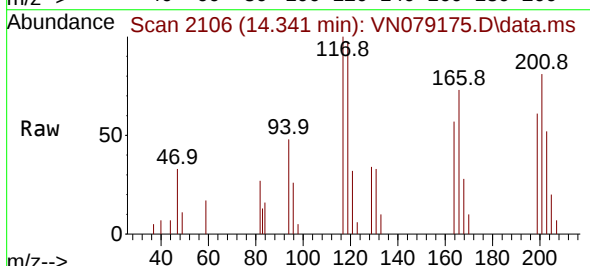
RT: 14.341 min Scan# 2106

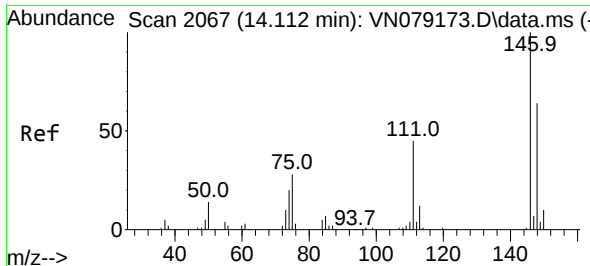
Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 5825  |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 201      | 79.3  | 37.2  | 111.6 |





#87

1,2-Dichlorobenzene

Concen: 4.790 ug/l

RT: 14.112 min Scan# 2067

Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC005

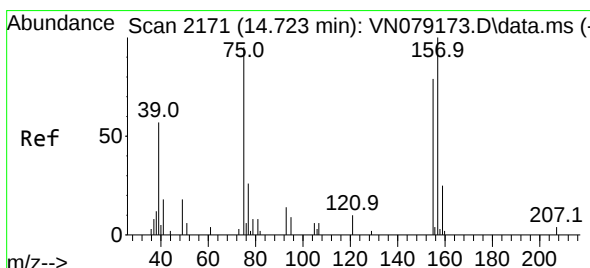
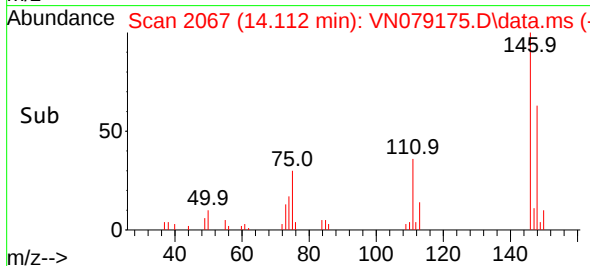
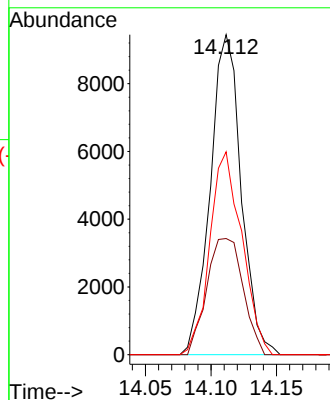
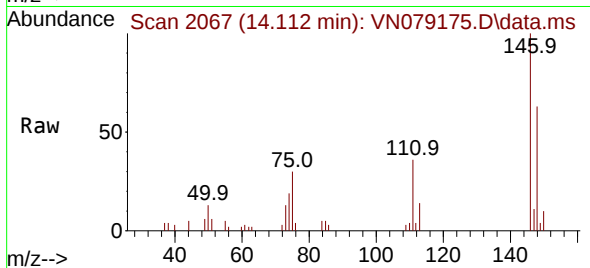
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 1554  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 42.4  | 21.5  | 64.5  |
| 148      | 65.7  | 31.8  | 95.3  |

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/08/2023

Supervised By :Mahesh Dadoda 09/08/2023



#88

1,2-Dibromo-3-Chloropropane

Concen: 4.708 ug/l

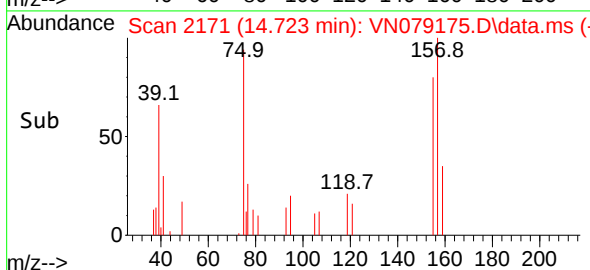
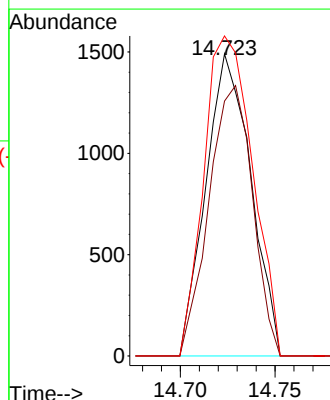
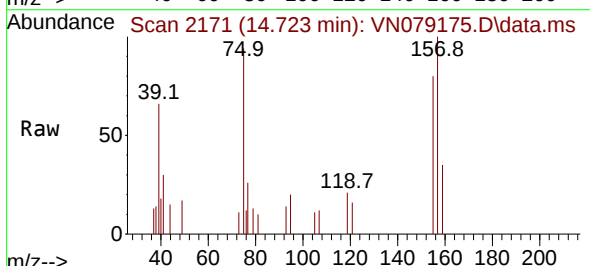
RT: 14.723 min Scan# 2171

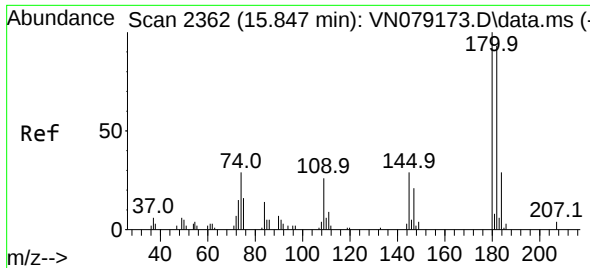
Delta R.T. -0.000 min

Lab File: VN079175.D

Acq: 07 Sep 2023 11:32

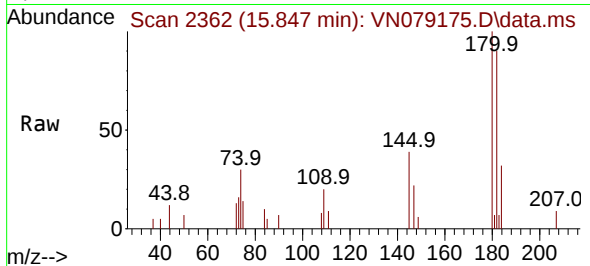
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 2468  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 155      | 86.8  | 68.1  | 102.1 |
| 157      | 114.6 | 83.9  | 125.9 |





#89  
1,2,4-Trichlorobenzene  
Concen: 4.100 ug/l  
RT: 15.847 min Scan# 2362  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

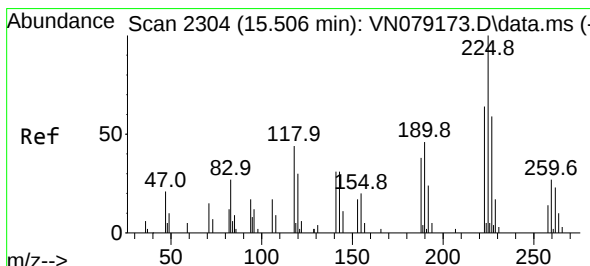
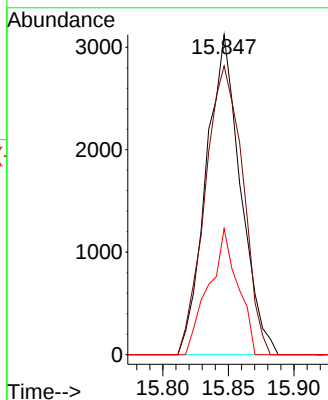
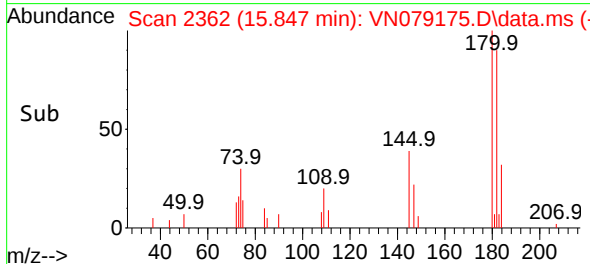
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC005



Tgt Ion:180 Resp: 5700  
Ion Ratio Lower Upper  
180 100  
182 99.1 74.5 111.7  
145 33.4 26.2 39.2

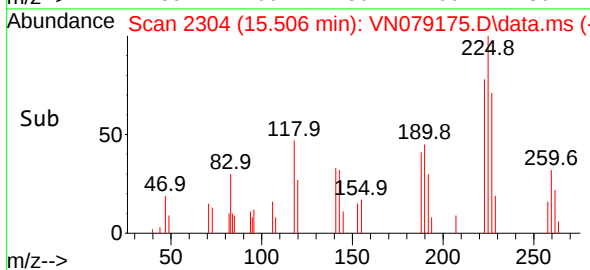
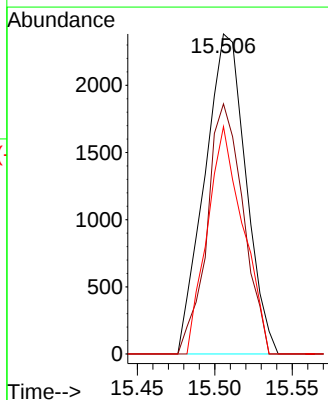
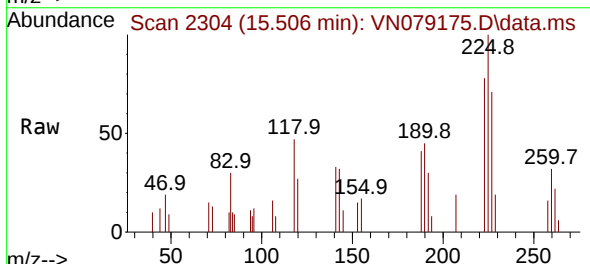
Manual Integrations  
APPROVED

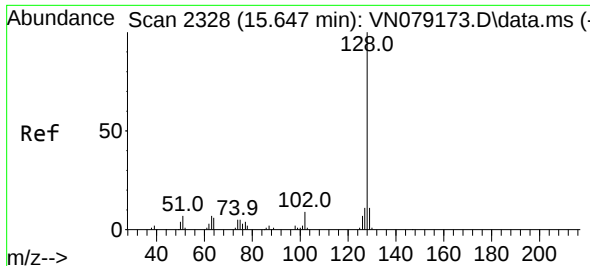
Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#90  
Hexachlorobutadiene  
Concen: 5.228 ug/l  
RT: 15.506 min Scan# 2304  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

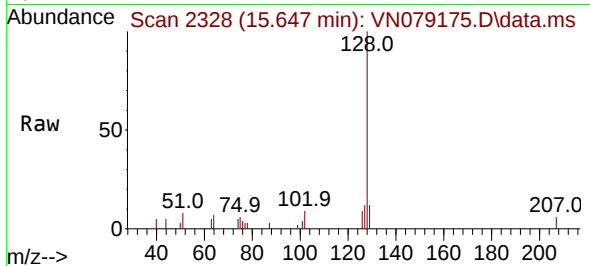
Tgt Ion:225 Resp: 4403  
Ion Ratio Lower Upper  
225 100  
223 68.6 0.0 125.6  
227 61.6 0.0 124.0





#91  
Naphthalene  
Concen: 3.808 ug/l  
RT: 15.647 min Scan# 2328  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

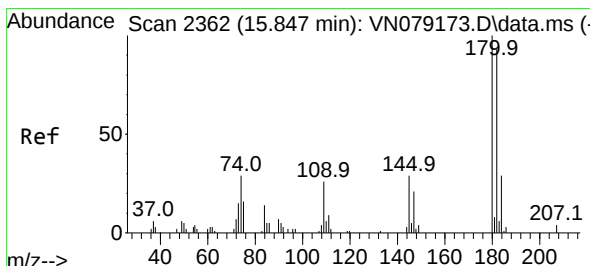
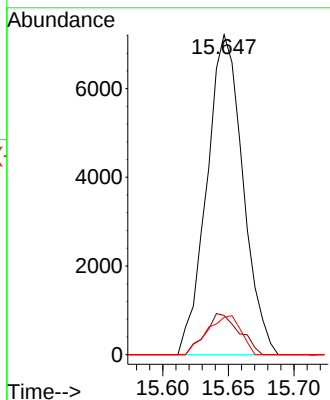
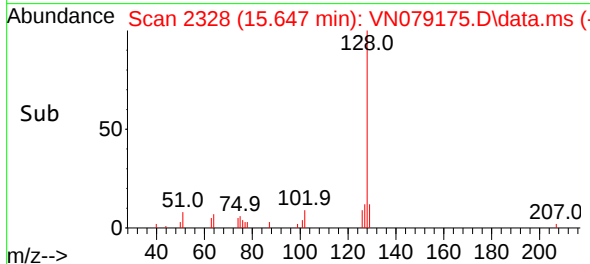
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC005



Tgt Ion:128 Resp: 1382  
Ion Ratio Lower Upper  
128 100  
127 12.1 10.1 15.1  
129 11.5 8.5 12.7

Manual Integrations  
APPROVED

Reviewed By :John Carlone 09/08/2023  
Supervised By :Mahesh Dadoda 09/08/2023



#92  
1,2,3-Trichlorobenzene  
Concen: 4.100 ug/l  
RT: 15.847 min Scan# 2362  
Delta R.T. -0.000 min  
Lab File: VN079175.D  
Acq: 07 Sep 2023 11:32

Tgt Ion:180 Resp: 5700  
Ion Ratio Lower Upper  
180 100  
182 99.1 0.0 186.2  
145 33.4 0.0 65.4

