

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020222\  
 Data File : VN070891.D  
 Acq On : 2 Feb 2022 13:46  
 Operator : JC/MD  
 Sample : VSTDIC020  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC020

Quant Time: Feb 02 15:19:38 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N020222W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 02 15:12:54 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 02/03/2022  
 Supervised By : Mahesh Dadoda 02/04/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 8.086          | 168  | 766874     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.968          | 114  | 1257420    | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.744         | 117  | 1145297    | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.672         | 152  | 468084     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.437          | 65   | 218839     | 19.912   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 61 - 141 |      | Recovery = | 39.820%# |        |          |
| 35) Dibromofluoromethane     | 8.021          | 113  | 160282     | 20.550   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 69 - 133 |      | Recovery = | 41.100%# |        |          |
| 50) Toluene-d8               | 10.440         | 98   | 663339     | 20.188   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 65 - 126 |      | Recovery = | 40.380%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.728         | 95   | 229342     | 19.587   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 135 |      | Recovery = | 39.180%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.073          | 85   | 177311     | 20.009   | ug/l   | 99       |
| 3) Chloromethane             | 2.303          | 50   | 205931     | 15.898   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.448          | 62   | 184651     | 14.988   | ug/l   | 99       |
| 5) Bromomethane              | 2.850          | 94   | 88423      | 13.781   | ug/l   | 98       |
| 6) Chloroethane              | 3.019          | 64   | 85190      | 11.081   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.379          | 101  | 207849     | 14.768   | ug/l   | 99       |
| 8) Diethyl Ether             | 3.824          | 74   | 118185     | 19.224   | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 4.205          | 101  | 157742     | 18.545   | ug/l   | 96       |
| 10) Methyl Iodide            | 4.419          | 142  | 229018     | 20.879   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.380          | 59   | 203378     | 102.569  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.181          | 96   | 159962     | 18.855   | ug/l   | 93       |
| 13) Acrolein                 | 4.041          | 56   | 228539     | 80.365   | ug/l   | 99       |
| 14) Allyl chloride           | 4.840          | 41   | 361990     | 19.583   | ug/l   | 86       |
| 15) Acrylonitrile            | 5.557          | 53   | 628281     | 99.604   | ug/l   | 99       |
| 16) Acetone                  | 4.288          | 43   | 654529     | 85.804   | ug/l   | 97       |
| 17) Carbon Disulfide         | 4.527          | 76   | 486377     | 21.109   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.857          | 43   | 296433     | 19.760   | ug/l   | 93       |
| 19) Methyl tert-butyl Ether  | 5.618          | 73   | 623564     | 20.575   | ug/l   | 95       |
| 20) Methylene Chloride       | 5.095          | 84   | 193171     | 19.225   | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.599          | 96   | 171038     | 20.031   | ug/l   | 88       |
| 22) Diisopropyl ether        | 6.498          | 45   | 731066     | 19.953   | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.434          | 43   | 3206144    | 103.230  | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.385          | 63   | 356942     | 19.476   | ug/l   | 98       |
| 25) 2-Butanone               | 7.337          | 43   | 935172     | 97.425   | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.327          | 77   | 278009     | 19.785   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.327          | 96   | 201892     | 19.904   | ug/l   | 88       |
| 28) Bromochloromethane       | 7.657          | 49   | 162961     | 19.804   | ug/l # | 79       |
| 29) Tetrahydrofuran          | 7.689          | 42   | 608375     | 103.510  | ug/l   | 88       |
| 30) Chloroform               | 7.817          | 83   | 342627     | 16.651   | ug/l   | 100      |
| 31) Cyclohexane              | 8.094          | 56   | 364019     | 18.809   | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 8.016          | 97   | 288888     | 20.308   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.220          | 75   | 259281     | 19.746   | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.412          | 43   | 350369     | 20.098   | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.206          | 117  | 238017     | 20.376   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.459          | 83   | 322083     | 19.869   | ug/l   | 90       |
| 40) Benzene                  | 8.461          | 78   | 804742     | 19.779   | ug/l   | 99       |

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 ClientSampleId :  
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 Quant Title : SW846 8260  
 QLast Update : Wed Feb 02 15:12:54 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 02/03/2022  
 Supervised By : Mahesh Dadoda 02/04/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.635  | 41   | 184962   | 20.855  | ug/l # | 85       |
| 42) 1,2-Dichloroethane        | 8.528  | 62   | 276588   | 19.605  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.560  | 43   | 566119   | 21.261  | ug/l   | 95       |
| 44) Trichloroethene           | 9.215  | 130  | 184233   | 19.974  | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.488  | 63   | 218513   | 19.739  | ug/l   | 100      |
| 46) Dibromomethane            | 9.577  | 93   | 131967   | 20.502  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.762  | 83   | 265607   | 20.187  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.558  | 41   | 267486   | 21.087  | ug/l # | 79       |
| 49) 1,4-Dioxane               | 9.569  | 88   | 81029    | 425.260 | ug/l # | 86       |
| 51) 4-Methyl-2-Pentanone      | 10.330 | 43   | 1771286  | 104.252 | ug/l   | 98       |
| 52) Toluene                   | 10.505 | 92   | 496855   | 20.415  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.719 | 75   | 293282   | 20.775  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.188 | 75   | 323359   | 20.493  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.896 | 97   | 194288   | 20.321  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.760 | 69   | 333532   | 20.751  | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 11.044 | 76   | 337008   | 19.911  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 10.041 | 63   | 360170   | 94.907  | ug/l   | 92       |
| 59) 2-Hexanone                | 11.084 | 43   | 1287759  | 104.333 | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.237 | 129  | 189643   | 21.265  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.344 | 107  | 197930   | 20.619  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.977 | 164  | 159696   | 19.017  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.768 | 112  | 499443   | 20.127  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.838 | 131  | 181002   | 21.182  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.843 | 91   | 927360   | 20.157  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.950 | 106  | 690144   | 41.236  | ug/l   | 95       |
| 69) o-Xylene                  | 12.280 | 106  | 341331   | 20.551  | ug/l   | 95       |
| 70) Styrene                   | 12.294 | 104  | 547423   | 20.602  | ug/l   | 97       |
| 71) Bromoform                 | 12.457 | 173  | 144075   | 22.321  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.578 | 105  | 882660   | 19.932  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.388 | 43   | 379514   | 20.961  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.825 | 83   | 301682   | 20.172  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.878 | 75   | 227133m  | 18.295  | ug/l   |          |
| 77) Bromobenzene              | 12.860 | 156  | 205093   | 20.657  | ug/l   | 80       |
| 78) n-propylbenzene           | 12.919 | 91   | 988871   | 19.968  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 13.004 | 91   | 612575   | 19.554  | ug/l   | 93       |
| 80) 1,3,5-Trimethylbenzene    | 13.058 | 105  | 720554   | 20.121  | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.624 | 75   | 85775    | 20.583  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 13.104 | 91   | 582079   | 19.886  | ug/l   | 93       |
| 83) tert-Butylbenzene         | 13.321 | 119  | 620383   | 19.901  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.366 | 105  | 702514   | 20.409  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.501 | 105  | 857861   | 20.243  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.613 | 119  | 684129   | 20.550  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.613 | 146  | 339572   | 20.560  | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.694 | 146  | 330429   | 20.103  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.940 | 91   | 562243   | 20.472  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.209 | 117  | 118358   | 20.339  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.986 | 146  | 329002   | 20.162  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.603 | 75   | 50844    | 20.042  | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene    | 15.260 | 180  | 161446   | 22.277  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.367 | 225  | 110581   | 22.881  | ug/l   | 100      |
| 95) Naphthalene               | 15.504 | 128  | 399701   | 21.340  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.697 | 180  | 153700   | 22.249  | ug/l   | 98       |

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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020

Manual Integrations  
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Supervised By :Mahesh Dadoda 02/04/2022

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Quant Title : SW846 8260  
QLast Update : Wed Feb 02 15:12:54 2022  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

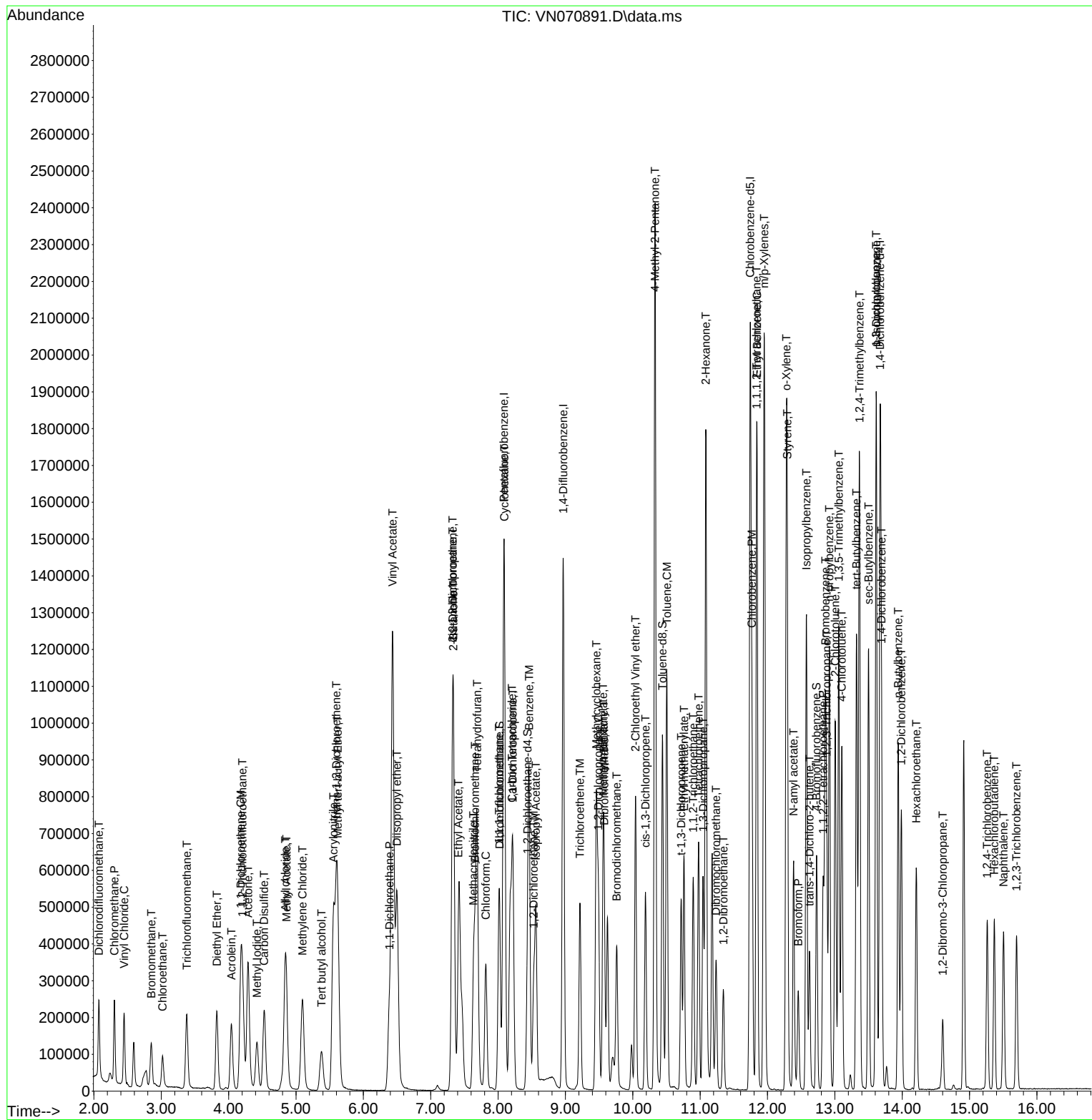
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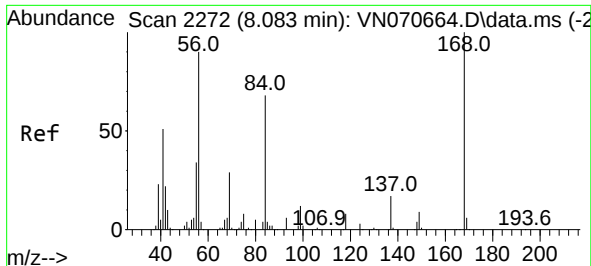
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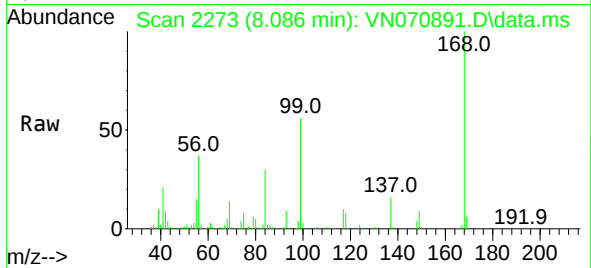
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#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

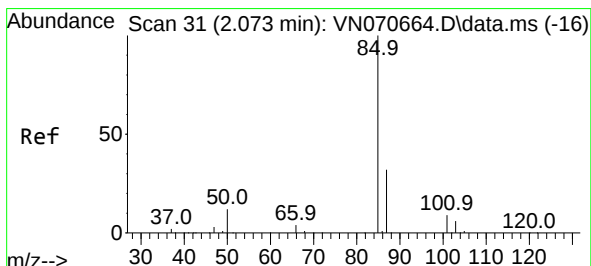
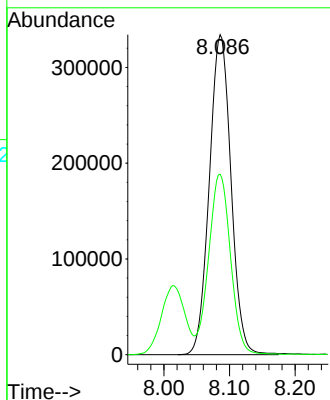
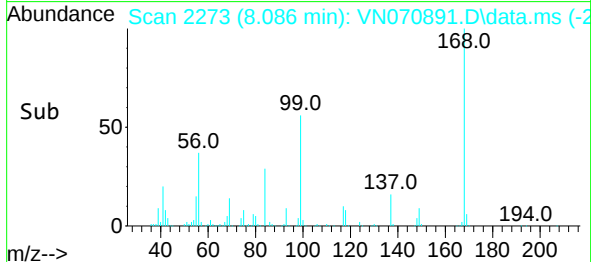
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020



Tgt Ion:168 Resp: 766874  
Ion Ratio Lower Upper  
168 100  
99 56.2 41.3 61.9

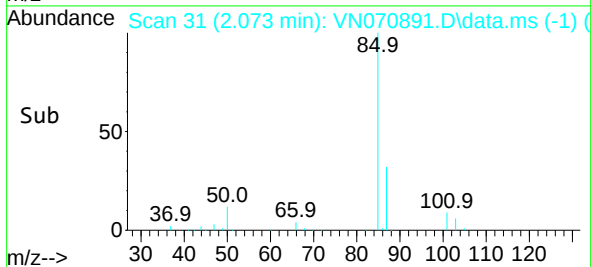
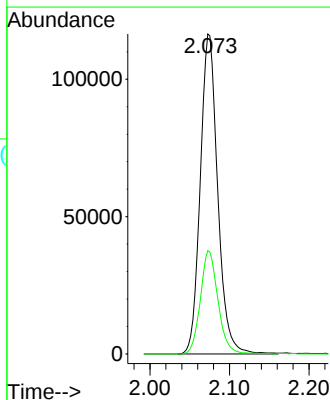
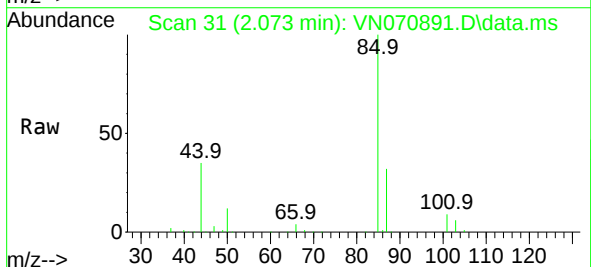
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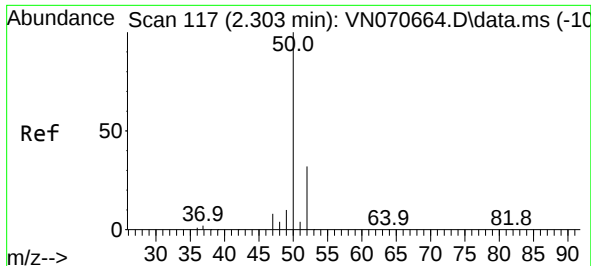
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#2  
Dichlorodifluoromethane  
Concen: 20.009 ug/l  
RT: 2.073 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

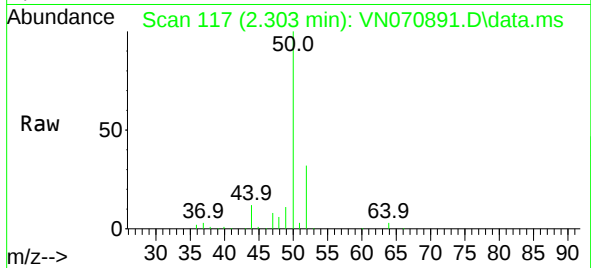
Tgt Ion: 85 Resp: 177311  
Ion Ratio Lower Upper  
85 100  
87 32.3 16.3 48.9





#3  
Chloromethane  
Concen: 15.898 ug/l  
RT: 2.303 min Scan# 117  
Delta R.T. 0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

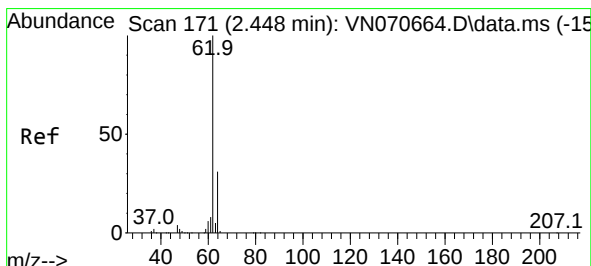
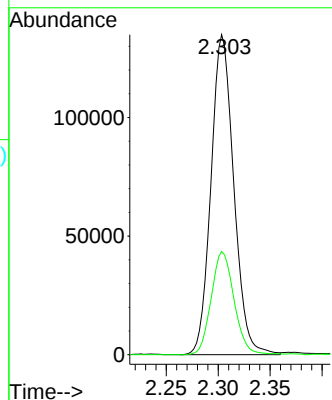
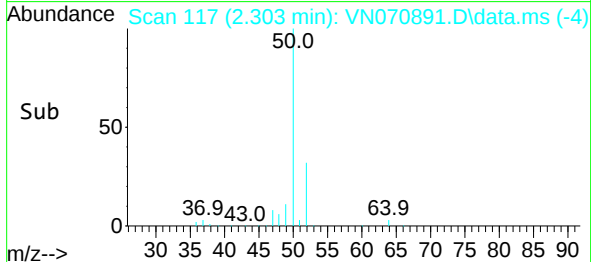
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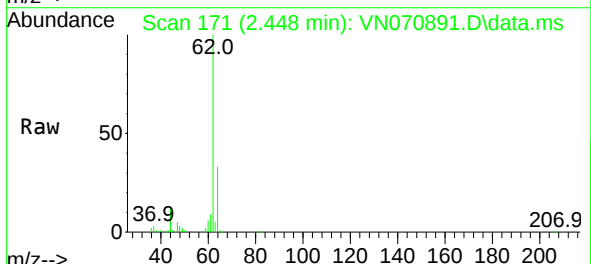
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Ion Ratio Lower Upper  
50 100  
52 32.2 25.4 38.0

Manual Integrations  
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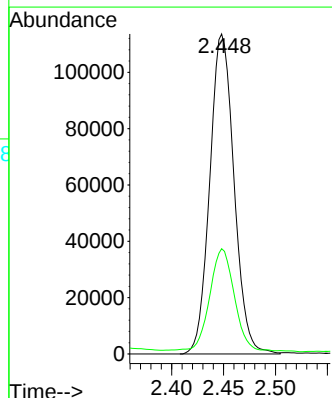
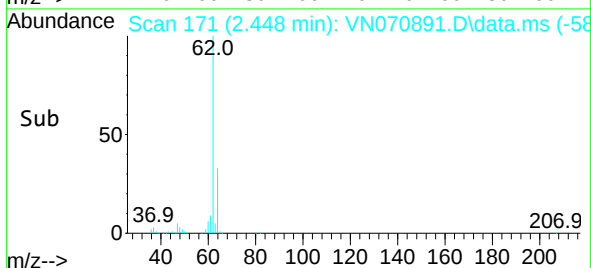
Reviewed By :John Carlone 02/03/2022  
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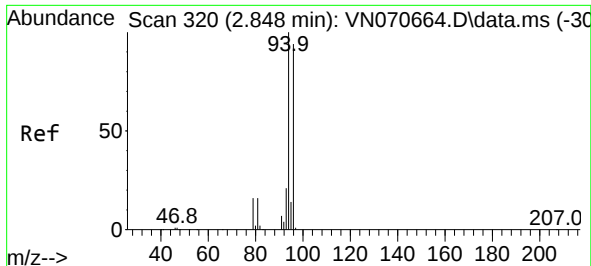


#4  
Vinyl Chloride  
Concen: 14.988 ug/l  
RT: 2.448 min Scan# 171  
Delta R.T. 0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



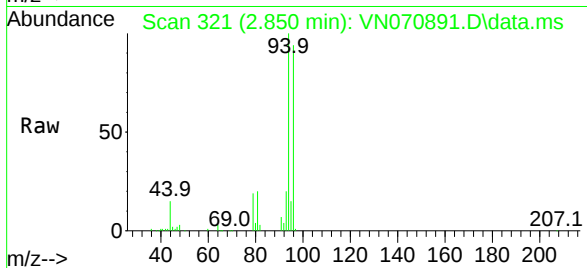
Tgt Ion: 62 Resp: 184651  
Ion Ratio Lower Upper  
62 100  
64 31.9 25.8 38.6





#5  
Bromomethane  
Concen: 13.781 ug/l  
RT: 2.850 min Scan# 31  
Delta R.T. 0.019 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

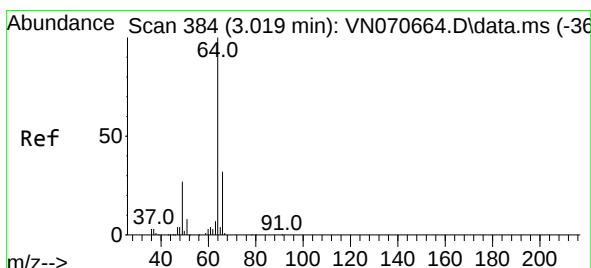
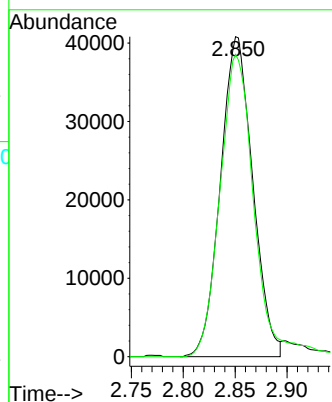
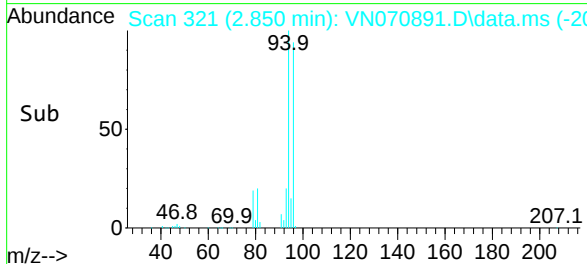
Instrument :  
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Tgt Ion: 94 Resp: 8842  
Ion Ratio Lower Upper  
94 100  
96 94.4 73.8 110.8

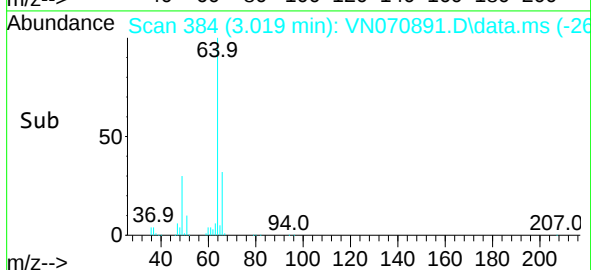
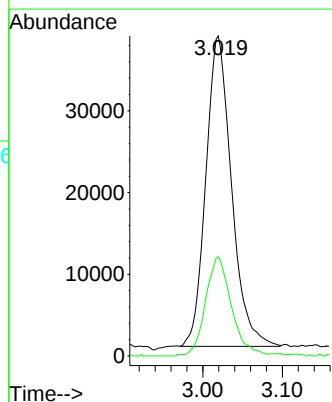
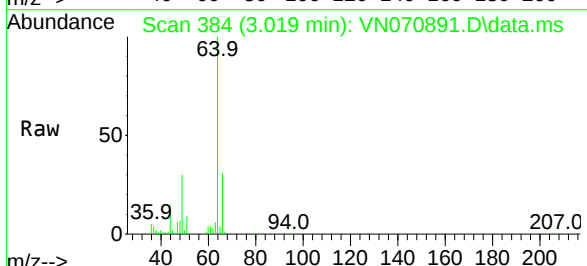
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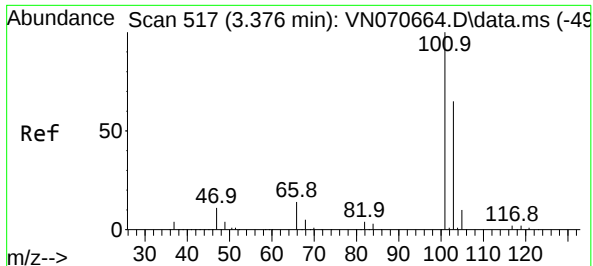
Reviewed By :John Carlone 02/03/2022  
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#6  
Chloroethane  
Concen: 11.081 ug/l  
RT: 3.019 min Scan# 384  
Delta R.T. 0.011 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

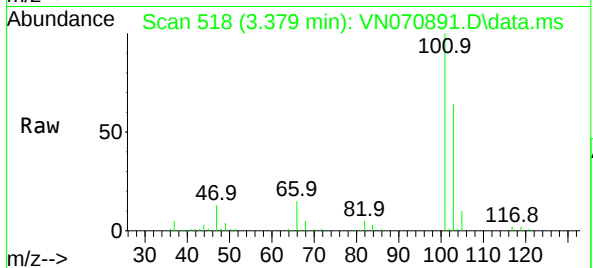
Tgt Ion: 64 Resp: 85190  
Ion Ratio Lower Upper  
64 100  
66 31.5 26.3 39.5





#7  
Trichlorofluoromethane  
Concen: 14.768 ug/l  
RT: 3.379 min Scan# 517  
Delta R.T. 0.008 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

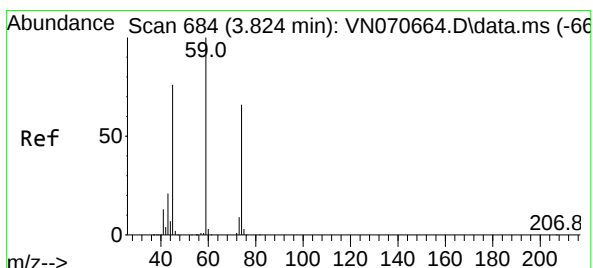
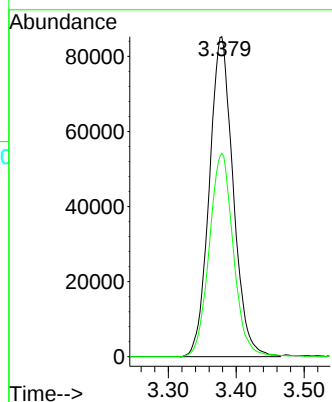
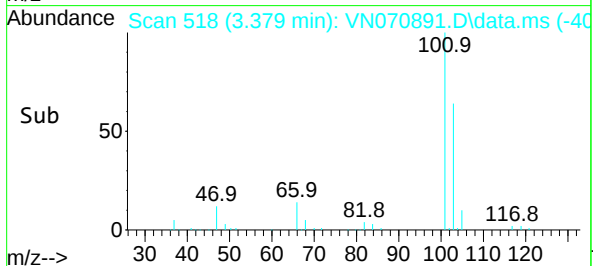
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020



Tgt Ion:101 Resp: 207849  
Ion Ratio Lower Upper  
101 100  
103 63.6 50.1 75.1

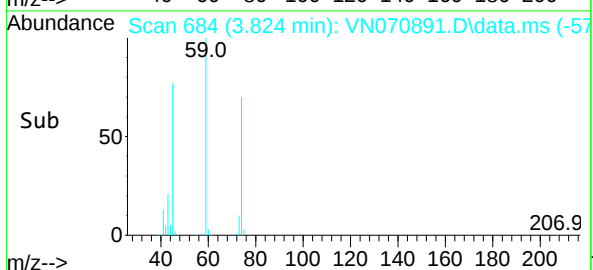
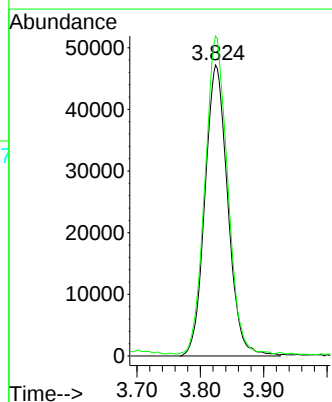
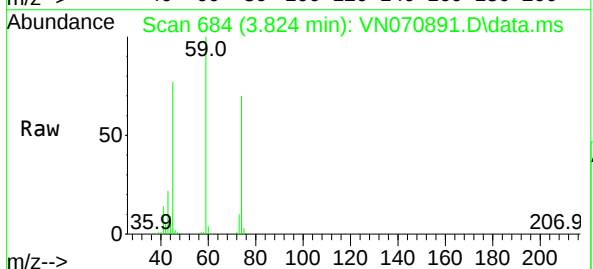
Manual Integrations  
APPROVED

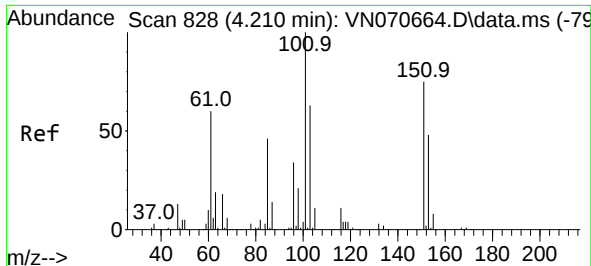
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#8  
Diethyl Ether  
Concen: 19.224 ug/l  
RT: 3.824 min Scan# 684  
Delta R.T. 0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

Tgt Ion: 74 Resp: 118185  
Ion Ratio Lower Upper  
74 100  
45 108.0 47.0 141.2





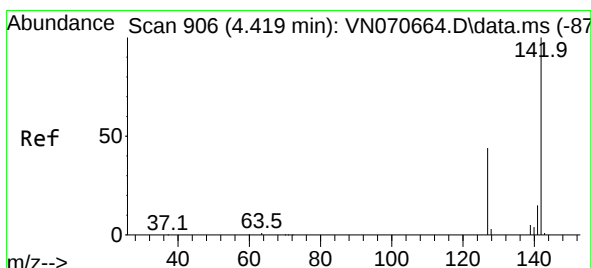
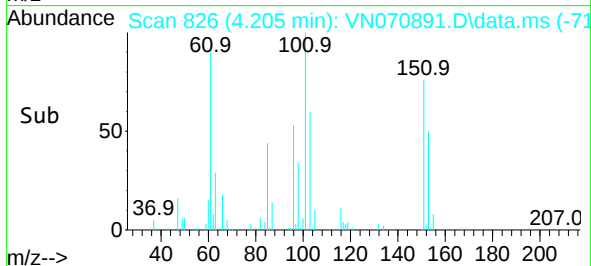
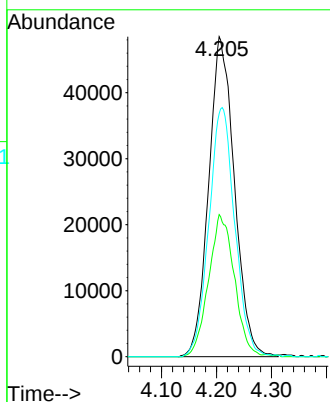
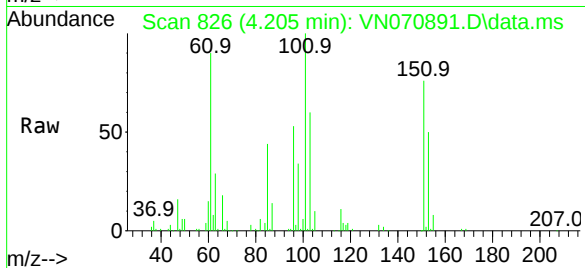
#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 18.545 ug/l  
RT: 4.205 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020

Tgt Ion:101 Resp: 15774  
Ion Ratio Lower Upper  
101 100  
85 44.3 37.2 55.8  
151 78.3 65.9 98.9

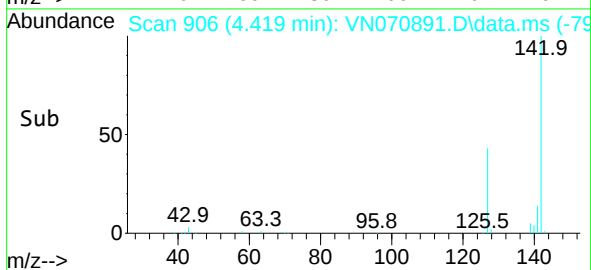
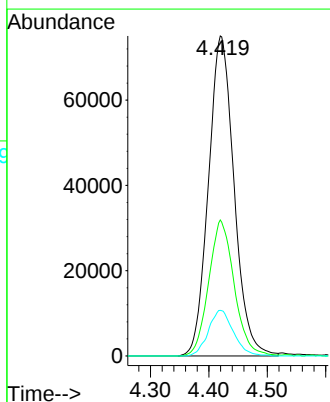
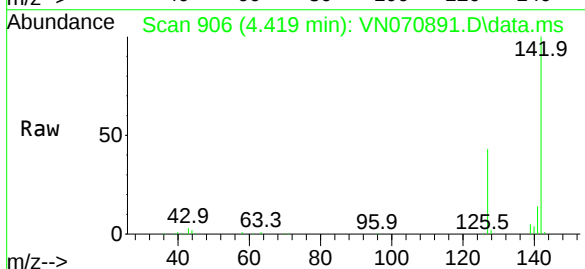
Manual Integrations  
APPROVED

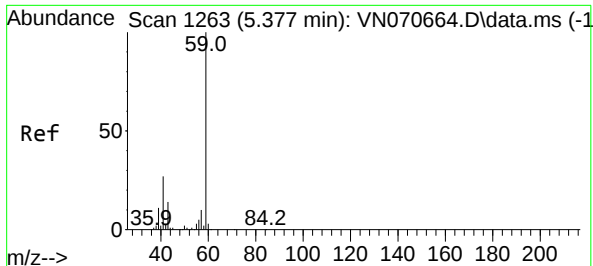
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#10  
Methyl Iodide  
Concen: 20.879 ug/l  
RT: 4.419 min Scan# 906  
Delta R.T. 0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

Tgt Ion:142 Resp: 229018  
Ion Ratio Lower Upper  
142 100  
127 42.3 35.4 53.0  
141 14.0 11.6 17.4





#11

Tert butyl alcohol

Concen: 102.569 ug/l

RT: 5.380 min Scan# 1264

Delta R.T. -0.003 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC020

Tgt Ion: 59 Resp: 203378

Ion Ratio Lower Upper

59 100

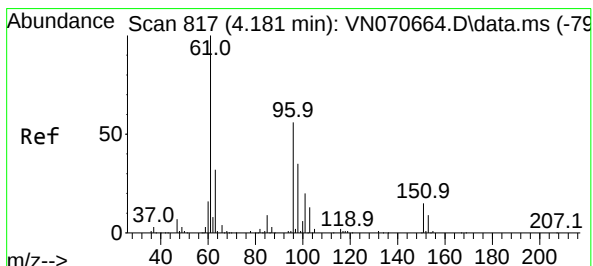
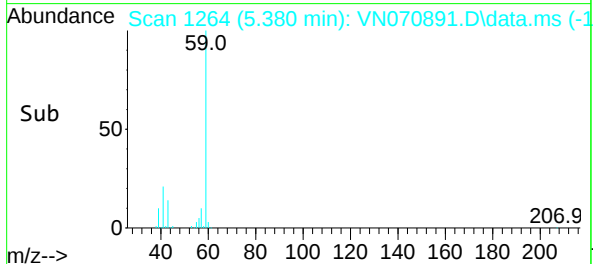
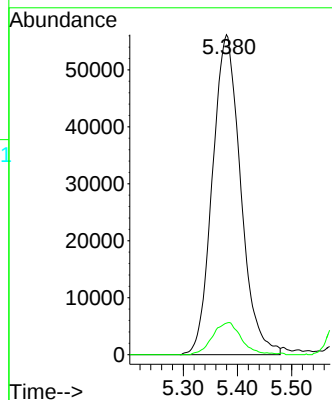
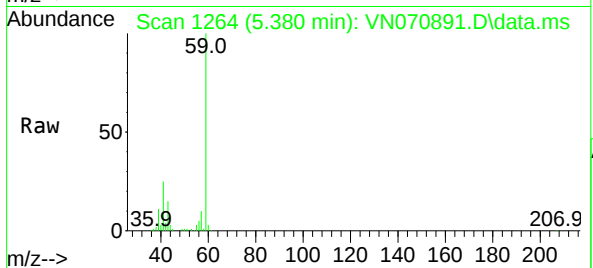
57 10.1 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/03/2022

Supervised By :Mahesh Dadoda 02/04/2022



#12

1,1-Dichloroethene

Concen: 18.855 ug/l

RT: 4.181 min Scan# 817

Delta R.T. 0.005 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

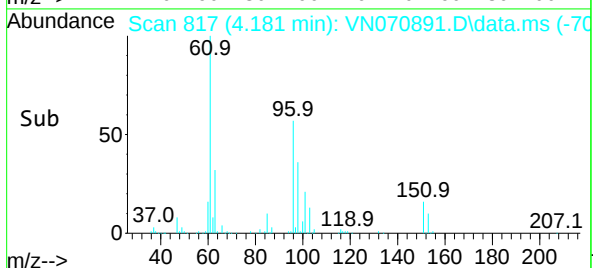
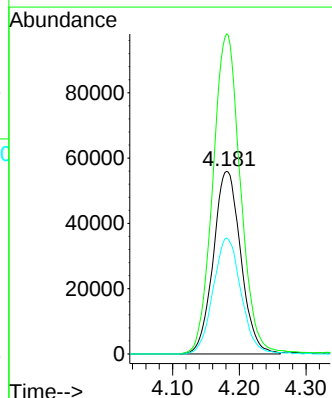
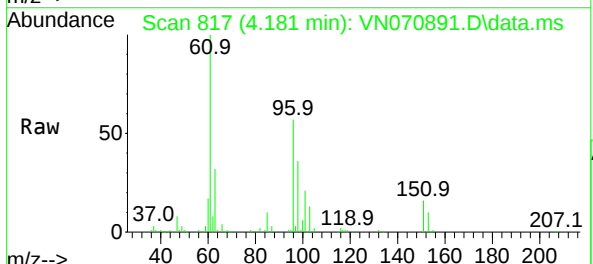
Tgt Ion: 96 Resp: 159962

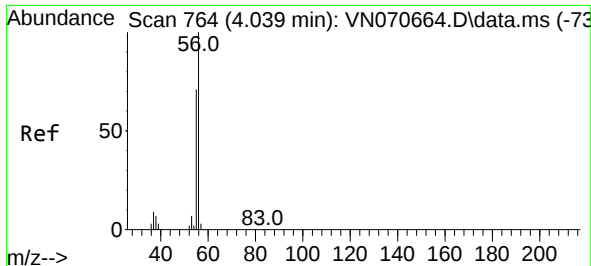
Ion Ratio Lower Upper

96 100

61 175.2 131.0 196.6

98 63.5 52.4 78.6





#13

Acrolein

Concen: 80.365 ug/l

RT: 4.041 min Scan# 70

Delta R.T. 0.003 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 228539

Ion Ratio Lower Upper

56 100

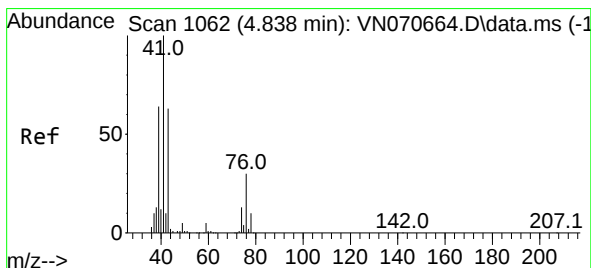
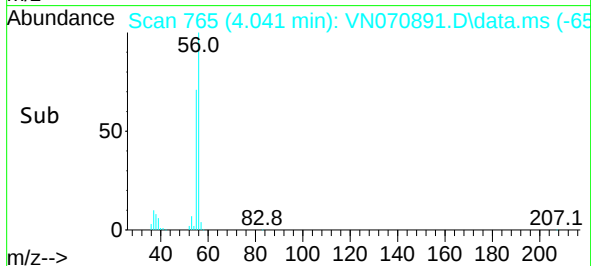
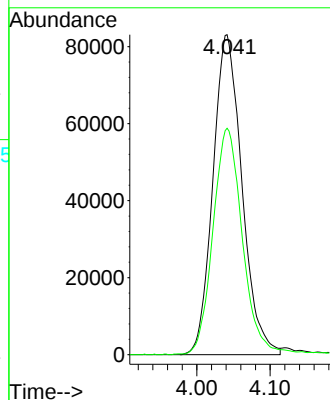
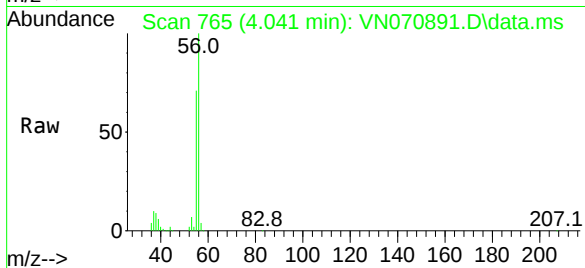
55 71.8 56.6 85.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/03/2022

Supervised By :Mahesh Dadoda 02/04/2022



#14

Allyl chloride

Concen: 19.583 ug/l

RT: 4.840 min Scan# 1063

Delta R.T. 0.003 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

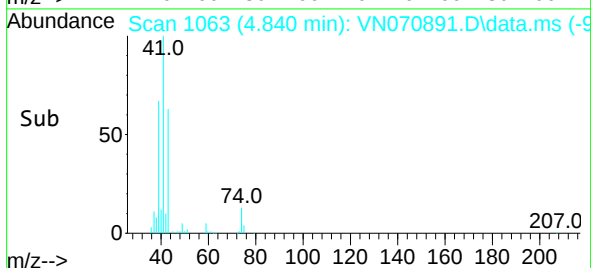
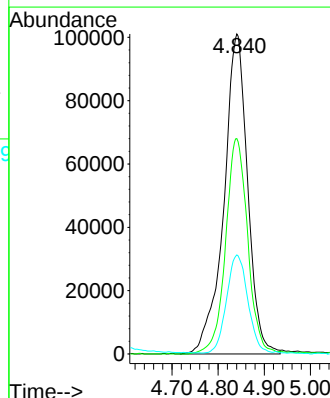
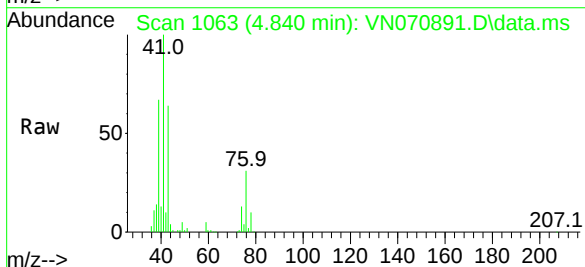
Tgt Ion: 41 Resp: 361990

Ion Ratio Lower Upper

41 100

39 62.5 61.2 91.8

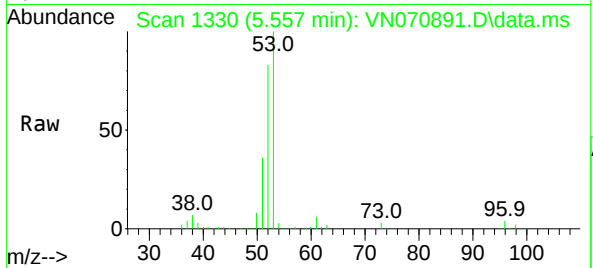
76 27.2 26.0 39.0





#15  
Acrylonitrile  
Concen: 99.604 ug/l  
RT: 5.557 min Scan# 11  
Delta R.T. 0.005 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

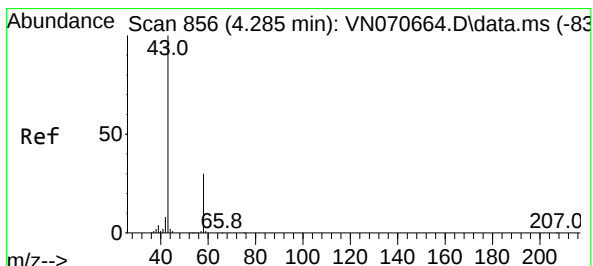
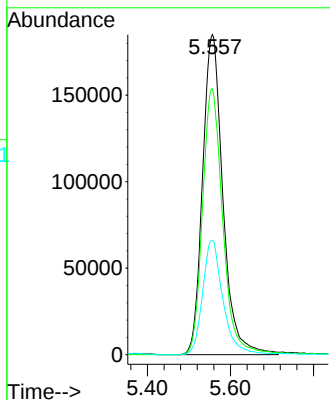
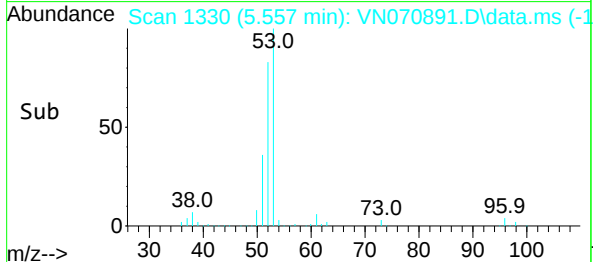
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020



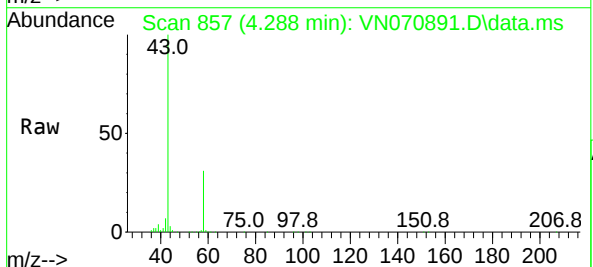
Tgt Ion: 53 Resp: 62828  
Ion Ratio Lower Upper  
53 100  
52 82.4 66.2 99.2  
51 35.7 29.6 44.4

Manual Integrations  
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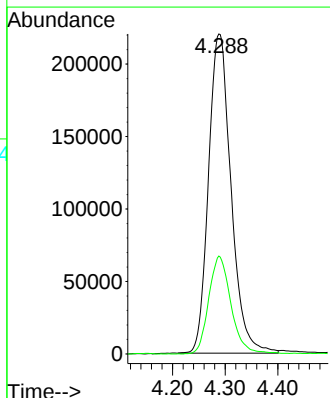
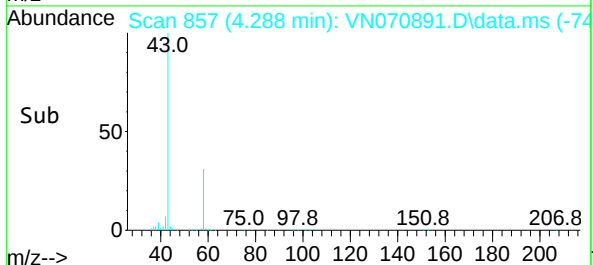
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

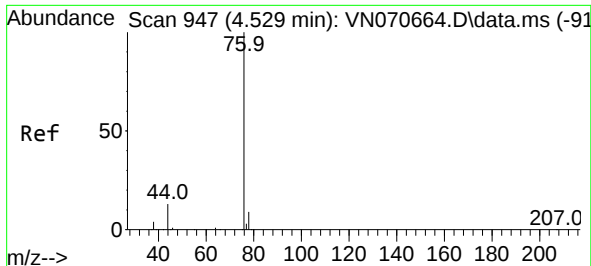


#16  
Acetone  
Concen: 85.804 ug/l  
RT: 4.288 min Scan# 857  
Delta R.T. 0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



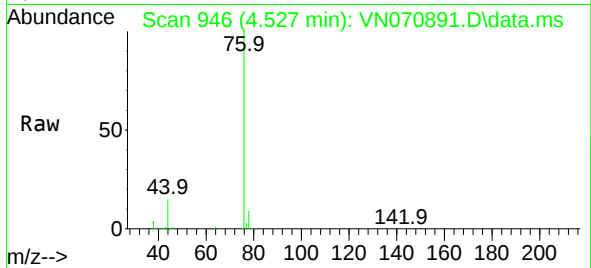
Tgt Ion: 43 Resp: 654529  
Ion Ratio Lower Upper  
43 100  
58 30.6 23.1 34.7





#17  
Carbon Disulfide  
Concen: 21.109 ug/l  
RT: 4.527 min Scan# 947  
Delta R.T. 0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

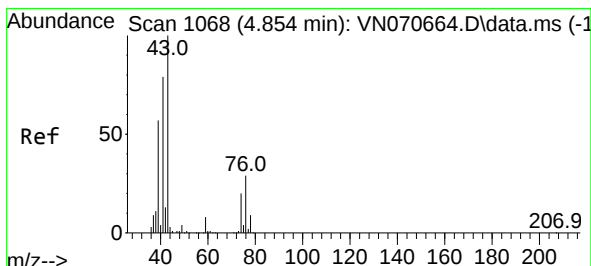
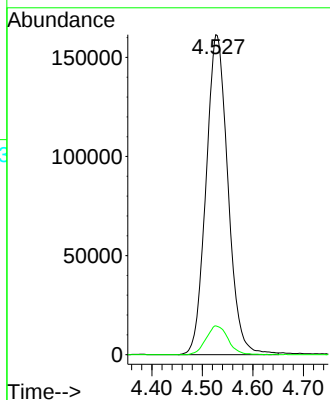
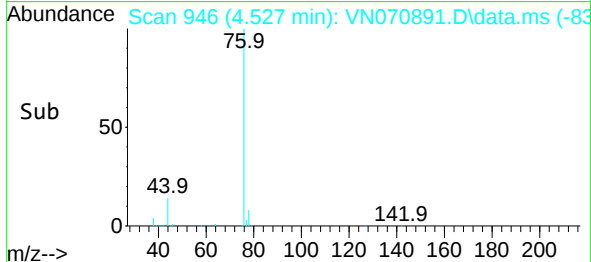
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



Tgt Ion: 76 Resp: 48637  
Ion Ratio Lower Upper  
76 100  
78 9.0 7.5 11.3

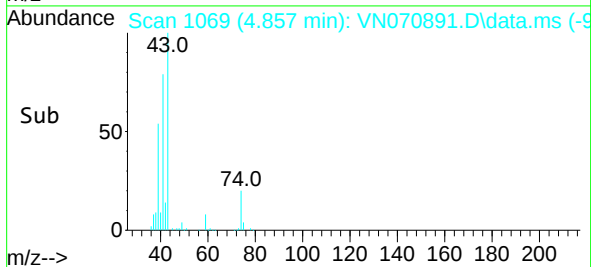
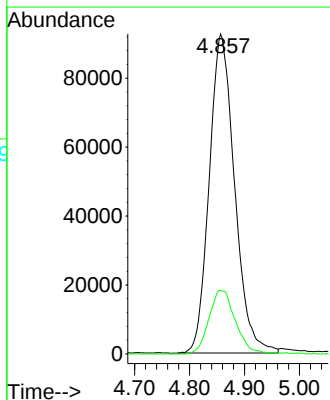
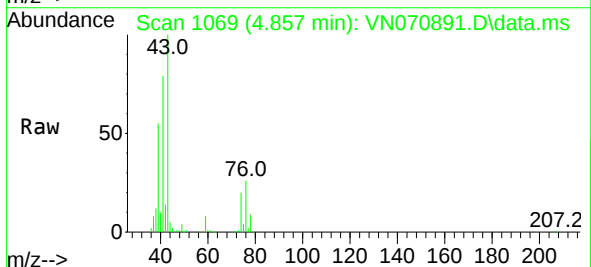
Manual Integrations  
APPROVED

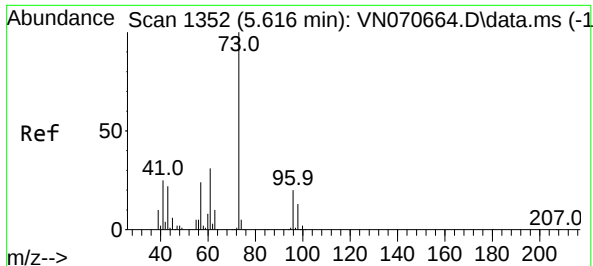
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#18  
Methyl Acetate  
Concen: 19.760 ug/l  
RT: 4.857 min Scan# 1069  
Delta R.T. 0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

Tgt Ion: 43 Resp: 296433  
Ion Ratio Lower Upper  
43 100  
74 20.8 19.4 29.2





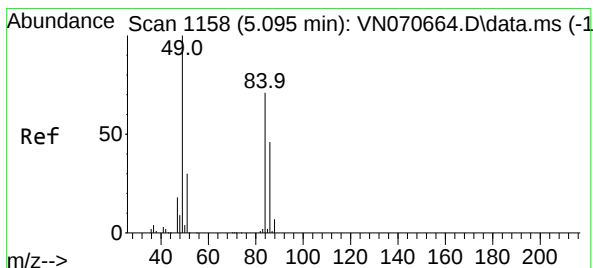
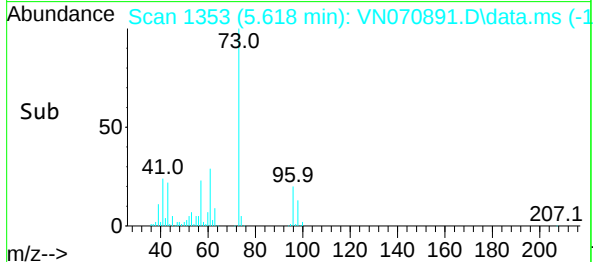
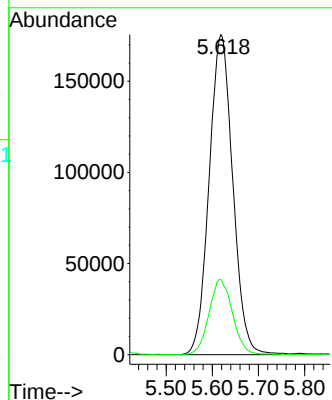
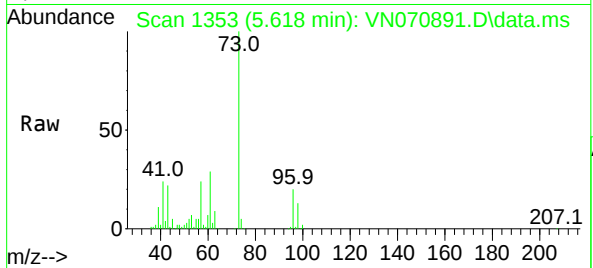
#19  
Methyl tert-butyl Ether  
Concen: 20.575 ug/l  
RT: 5.618 min Scan# 11353  
Delta R.T. 0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020

Tgt Ion: 73 Resp: 623564  
Ion Ratio Lower Upper  
73 100  
57 23.5 16.8 25.2

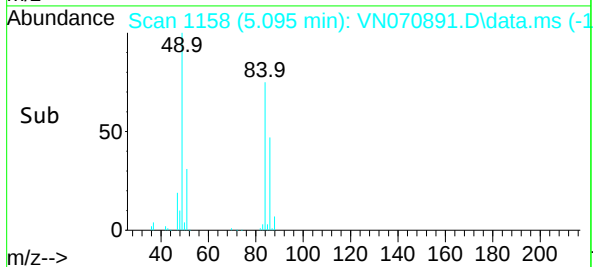
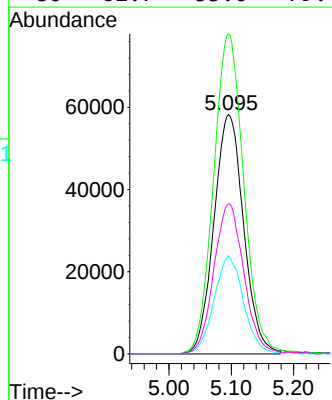
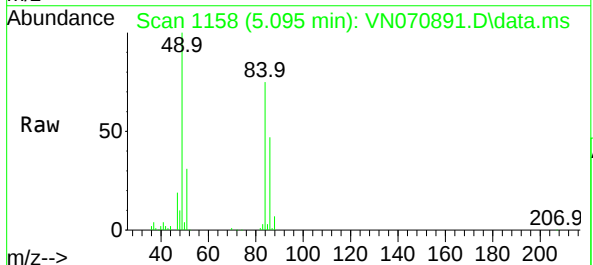
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#20  
Methylene Chloride  
Concen: 19.225 ug/l  
RT: 5.095 min Scan# 1158  
Delta R.T. 0.005 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

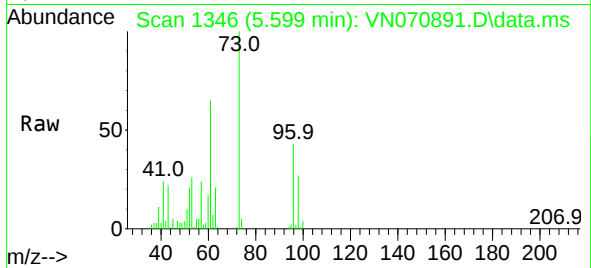
Tgt Ion: 84 Resp: 193171  
Ion Ratio Lower Upper  
84 100  
49 133.7 93.5 140.3  
51 41.0 29.4 44.2  
86 62.7 53.0 79.4





#21  
trans-1,2-Dichloroethene  
Concen: 20.031 ug/l  
RT: 5.599 min Scan# 11  
Delta R.T. 0.005 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

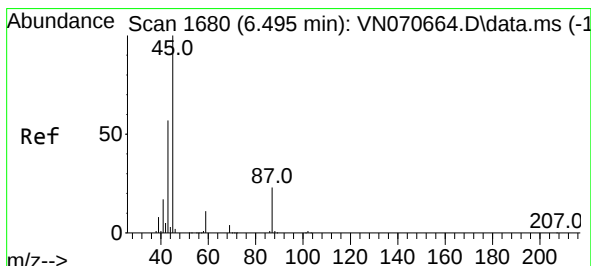
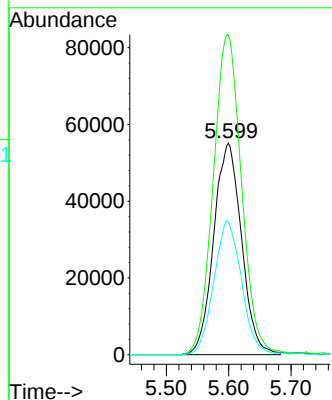
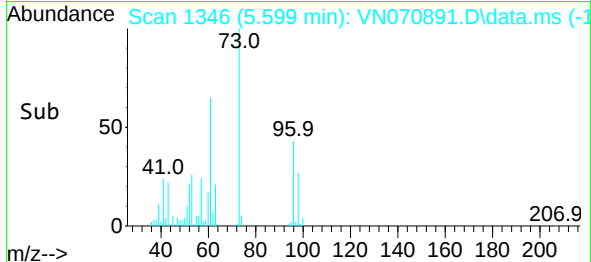
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



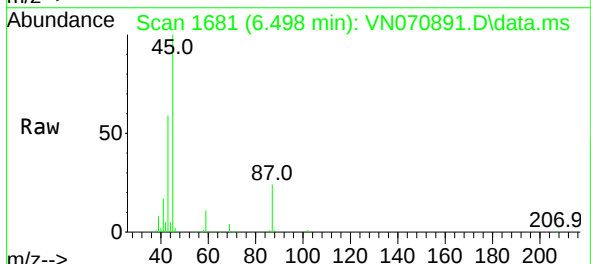
Tgt Ion: 96 Resp: 171038  
Ion Ratio Lower Upper  
96 100  
61 151.0 105.8 158.6  
98 62.5 52.0 78.0

Manual Integrations  
APPROVED

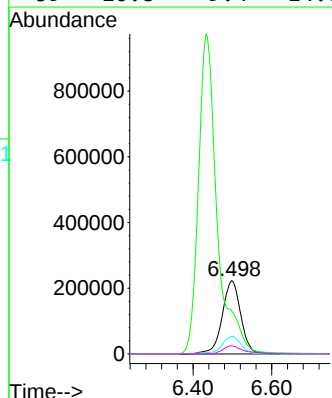
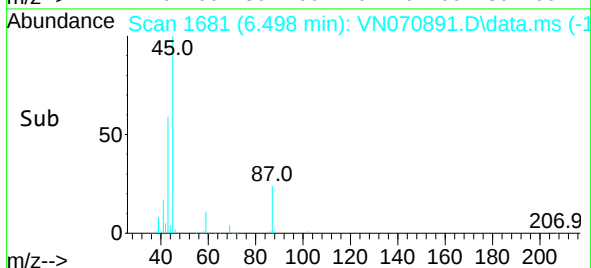
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

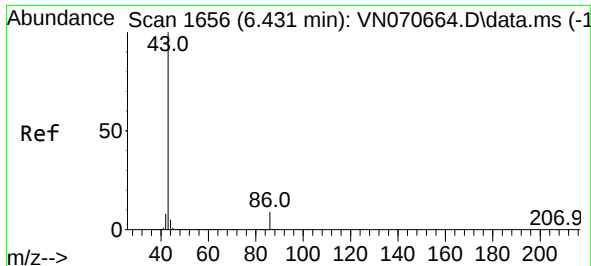


#22  
Diisopropyl ether  
Concen: 19.953 ug/l  
RT: 6.498 min Scan# 1681  
Delta R.T. 0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



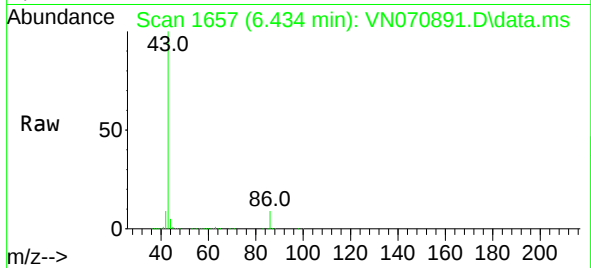
Tgt Ion: 45 Resp: 731066  
Ion Ratio Lower Upper  
45 100  
43 58.4 51.7 77.5  
87 23.9 23.2 34.8  
59 10.8 9.4 14.0





#23  
 Vinyl Acetate  
 Concen: 103.230 ug/l  
 RT: 6.434 min Scan# 1657  
 Delta R.T. -0.000 min  
 Lab File: VN070891.D  
 Acq: 2 Feb 2022 13:46

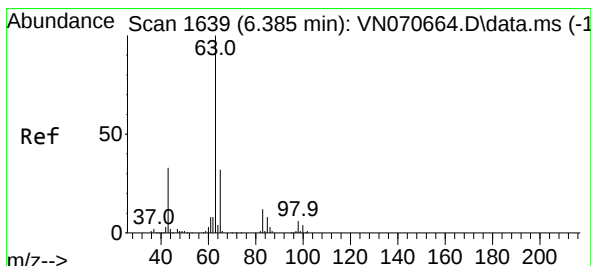
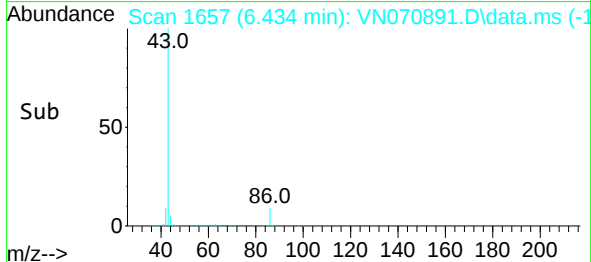
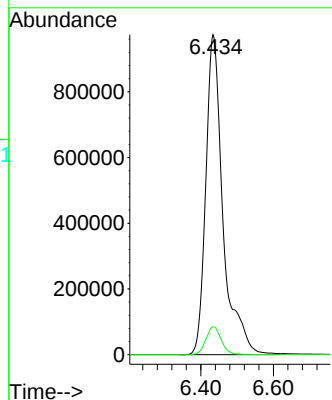
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC020



Tgt Ion: 43 Resp: 320614  
 Ion Ratio Lower Upper  
 43 100  
 86 8.7 8.5 12.7

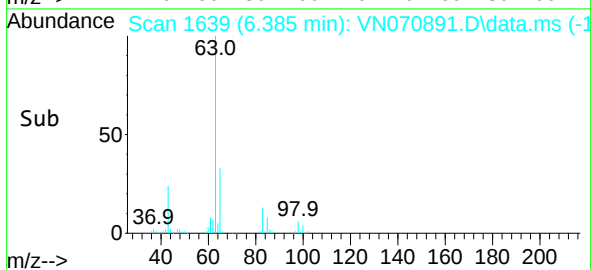
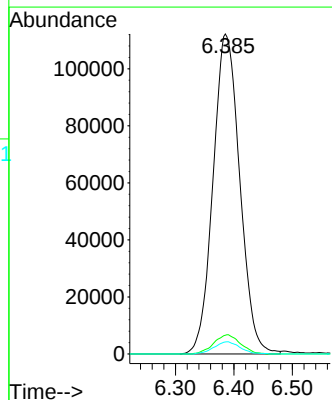
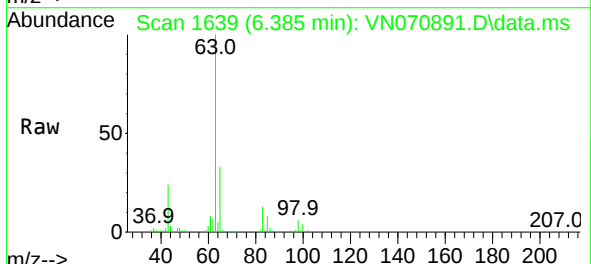
Manual Integrations  
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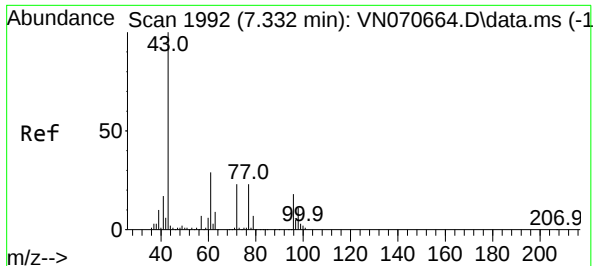
Reviewed By :John Carlone 02/03/2022  
 Supervised By :Mahesh Dadoda 02/04/2022



#24  
 1,1-Dichloroethane  
 Concen: 19.476 ug/l  
 RT: 6.385 min Scan# 1639  
 Delta R.T. -0.000 min  
 Lab File: VN070891.D  
 Acq: 2 Feb 2022 13:46

Tgt Ion: 63 Resp: 356942  
 Ion Ratio Lower Upper  
 63 100  
 98 5.9 3.3 9.9  
 100 3.8 2.1 6.5





#25

2-Butanone

Concen: 97.425 ug/l

RT: 7.337 min Scan# 1992

Delta R.T. 0.003 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 93517

Ion Ratio Lower Upper

43 100

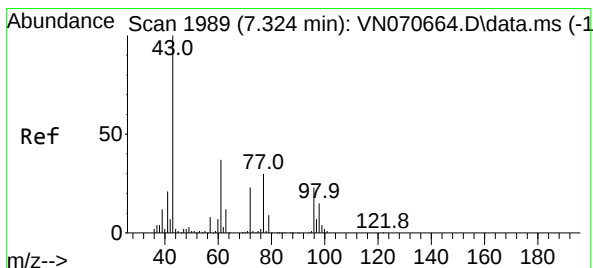
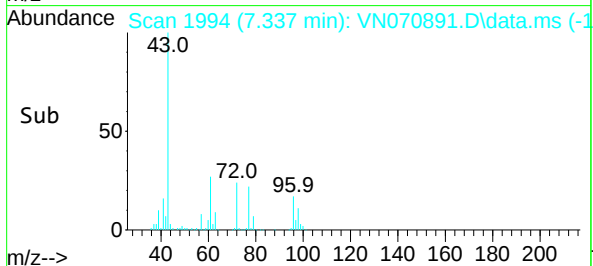
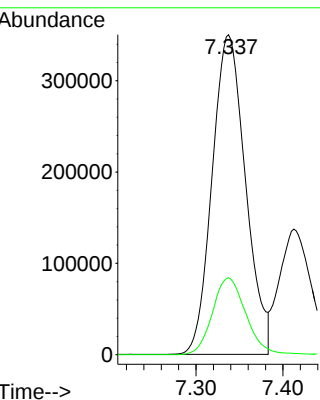
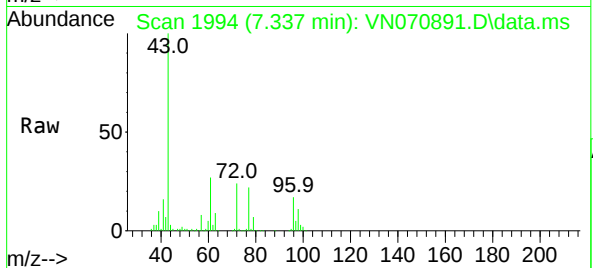
72 24.1 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/03/2022

Supervised By :Mahesh Dadoda 02/04/2022



#26

2,2-Dichloropropane

Concen: 19.785 ug/l

RT: 7.327 min Scan# 1990

Delta R.T. 0.005 min

Lab File: VN070891.D

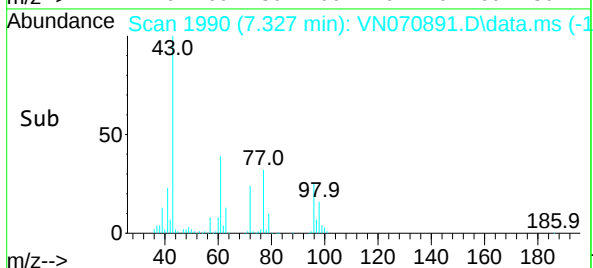
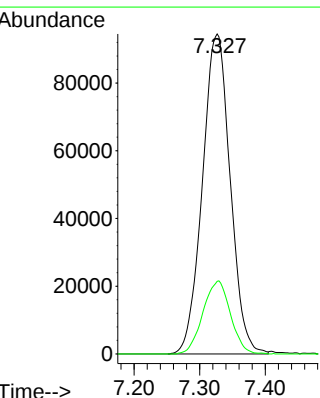
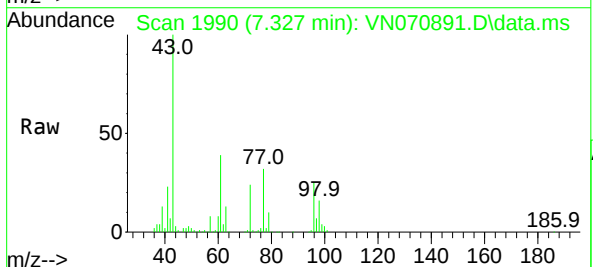
Acq: 2 Feb 2022 13:46

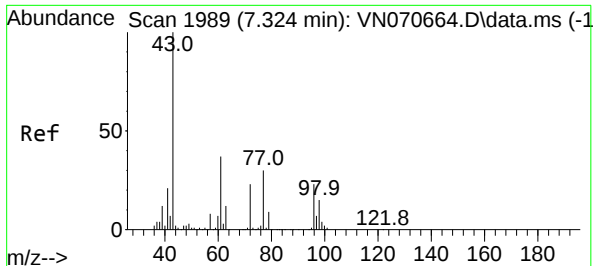
Tgt Ion: 77 Resp: 278009

Ion Ratio Lower Upper

77 100

97 22.5 11.6 34.8





#27

cis-1,2-Dichloroethene

Concen: 19.904 ug/l

RT: 7.327 min Scan# 1989

Delta R.T. 0.003 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC020

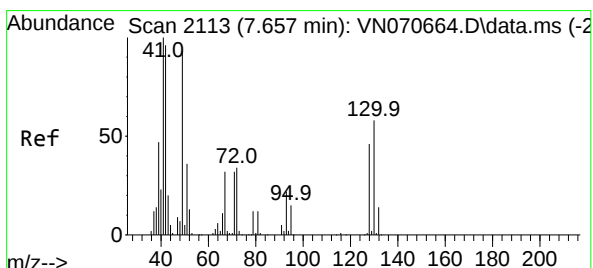
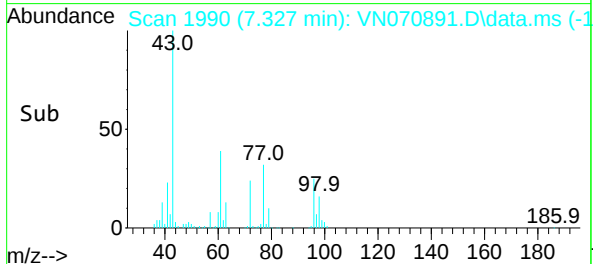
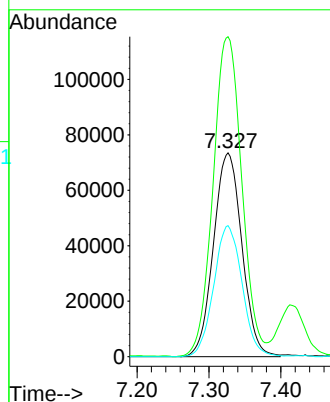
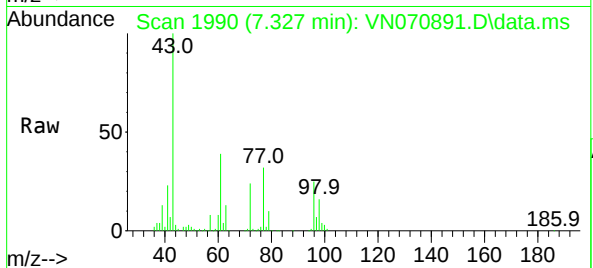
Tgt Ion: 96 Resp: 201892  
 Ion Ratio Lower Upper  
 96 100  
 61 158.9 0.0 275.0  
 98 64.1 0.0 129.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/03/2022

Supervised By :Mahesh Dadoda 02/04/2022



#28

Bromochloromethane

Concen: 19.804 ug/l

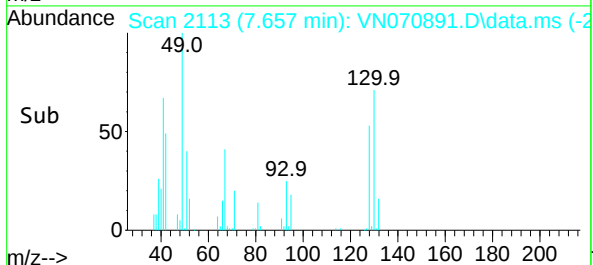
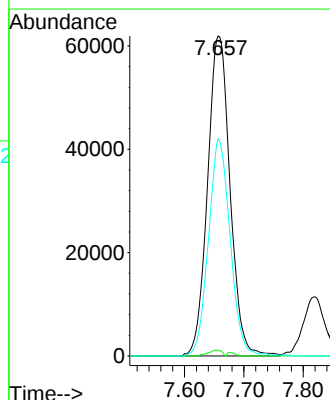
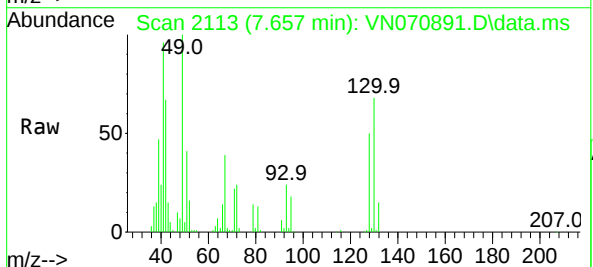
RT: 7.657 min Scan# 2113

Delta R.T. -0.000 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

Tgt Ion: 49 Resp: 162961  
 Ion Ratio Lower Upper  
 49 100  
 129 1.1 0.0 4.0  
 130 65.2 67.8 101.8





#29

Tetrahydrofuran

Concen: 103.510 ug/l

RT: 7.689 min Scan# 2123

Delta R.T. 0.003 min

Lab File: VN070891.D

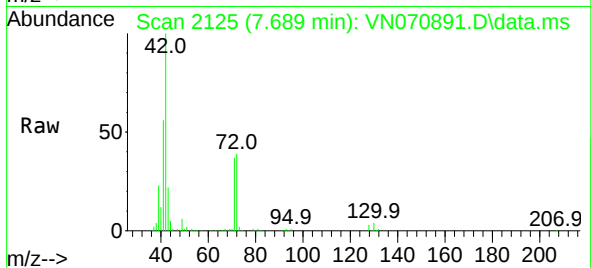
Acq: 2 Feb 2022 13:46

Instrument :

MSVOA\_N

ClientSampleId :

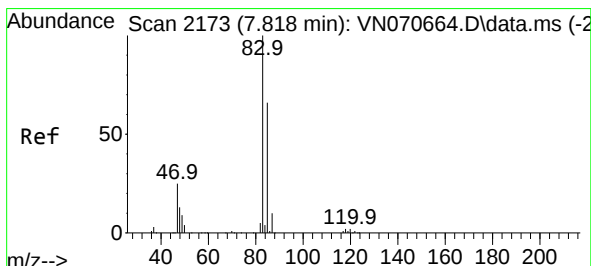
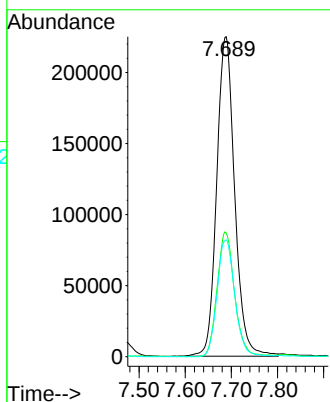
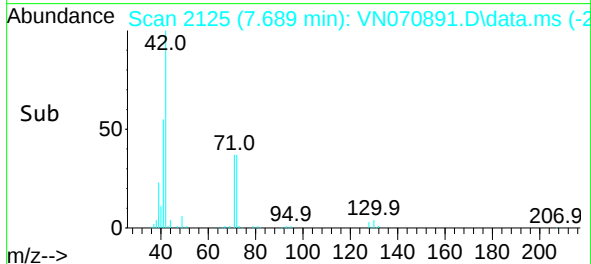
VSTDICC020



| Tgt Ion:  | 42   | Resp: | 60837 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 42        | 100  |       |       |
| 72        | 37.6 | 36.3  | 54.5  |
| 71        | 35.9 | 34.7  | 52.1  |

Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#30

Chloroform

Concen: 16.651 ug/l

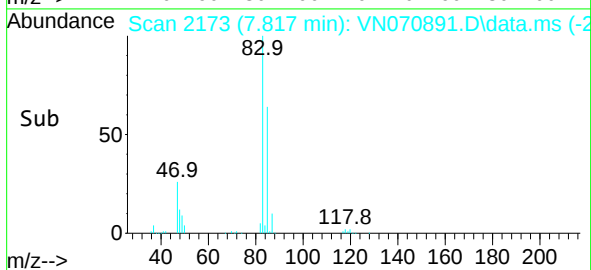
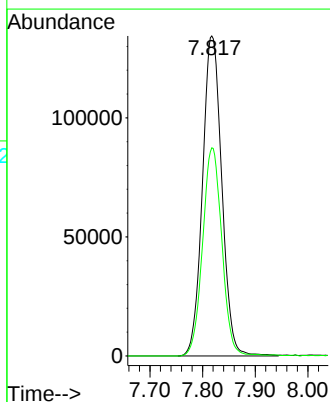
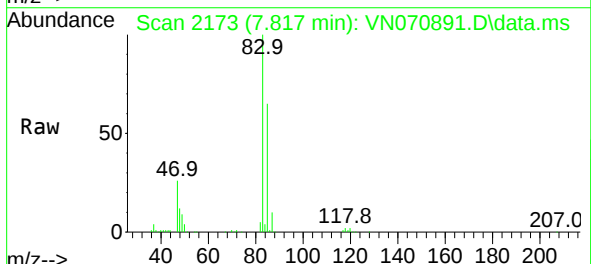
RT: 7.817 min Scan# 2173

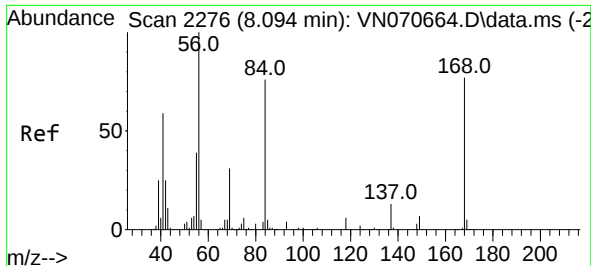
Delta R.T. -0.000 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

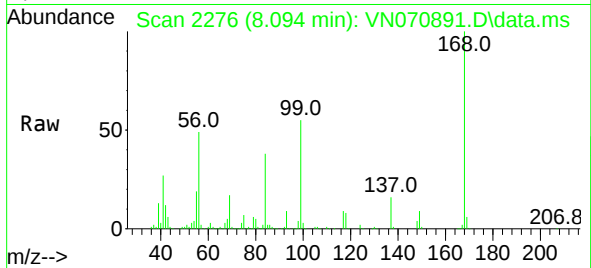
| Tgt Ion:  | 83   | Resp: | 342627 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 83        | 100  |       |        |
| 85        | 65.0 | 51.9  | 77.9   |





#31  
Cyclohexane  
Concen: 18.809 ug/l  
RT: 8.094 min Scan# 2276  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

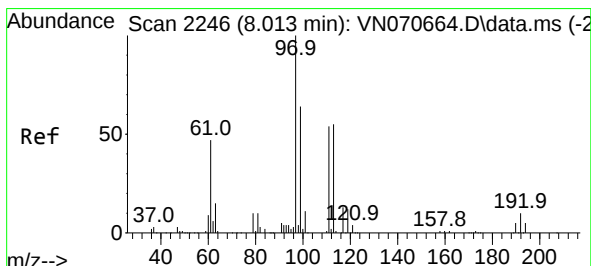
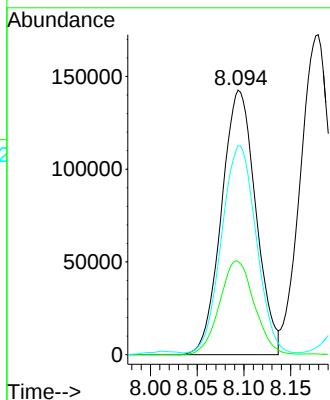
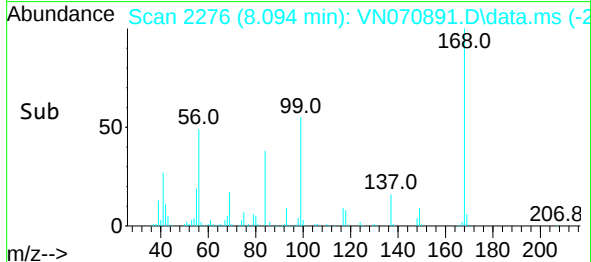
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



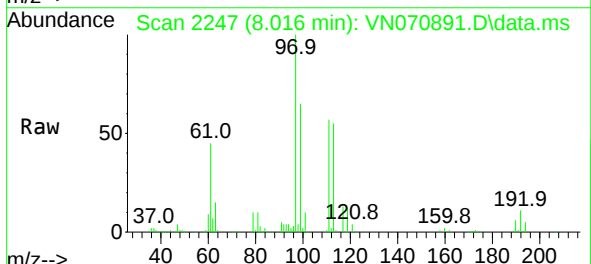
Tgt Ion: 56 Resp: 364019  
Ion Ratio Lower Upper  
56 100  
69 35.2 27.1 40.7  
84 78.0 73.4 110.0

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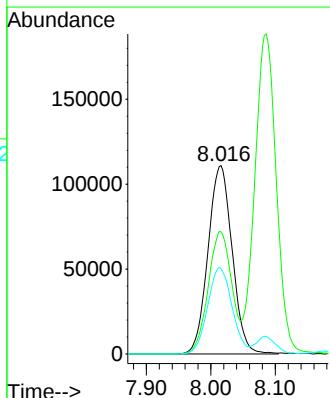
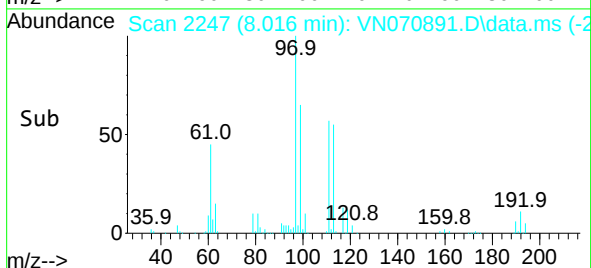
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

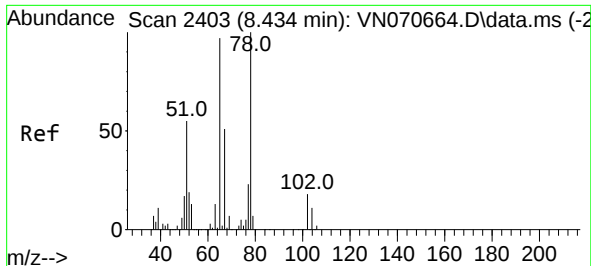


#32  
1,1,1-Trichloroethane  
Concen: 20.308 ug/l  
RT: 8.016 min Scan# 2247  
Delta R.T. 0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



Tgt Ion: 97 Resp: 288888  
Ion Ratio Lower Upper  
97 100  
99 62.8 50.1 75.1  
61 46.2 35.2 52.8





#33

1,2-Dichloroethane-d4

Concen: 19.912 ug/l

RT: 8.437 min Scan# 2403

Delta R.T. -0.000 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC020

Tgt Ion: 65 Resp: 218839

Ion Ratio Lower Upper

65 100

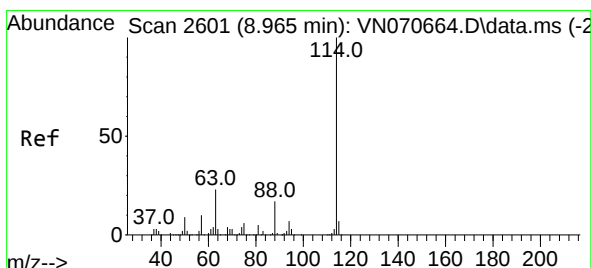
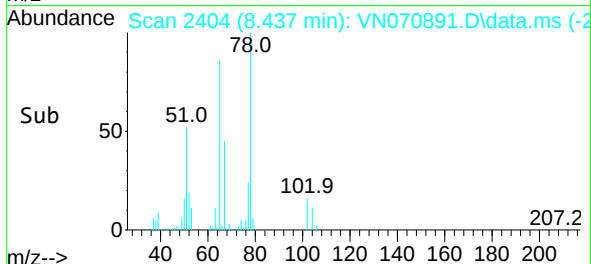
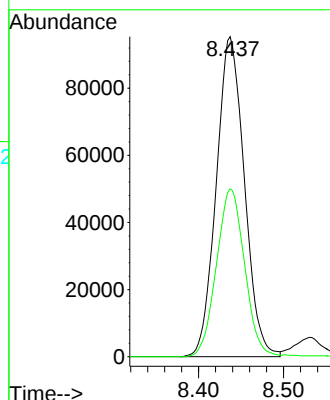
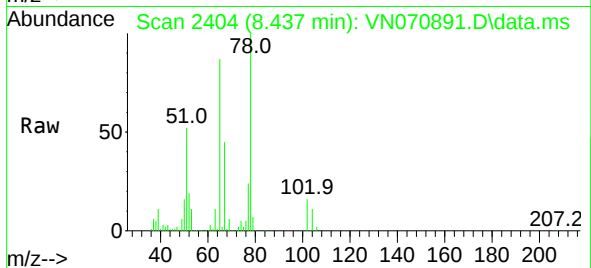
67 52.4 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/03/2022

Supervised By :Mahesh Dadoda 02/04/2022



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. 0.003 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

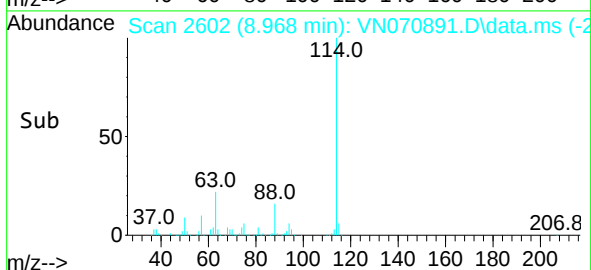
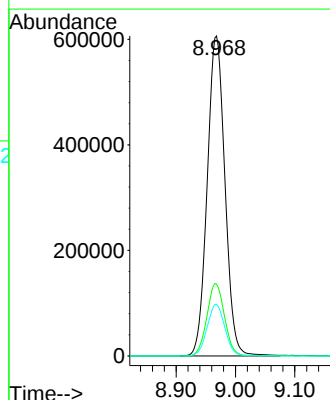
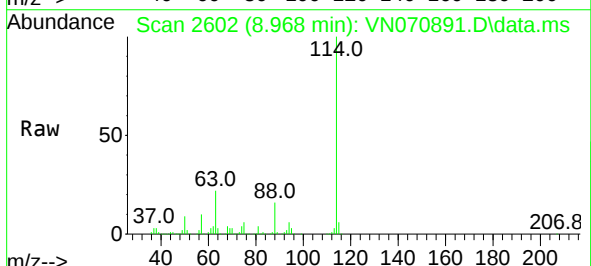
Tgt Ion:114 Resp: 1257420

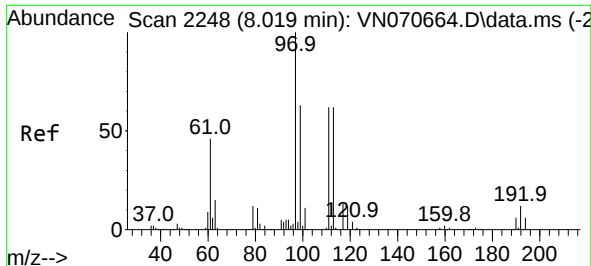
Ion Ratio Lower Upper

114 100

63 22.5 0.0 37.8

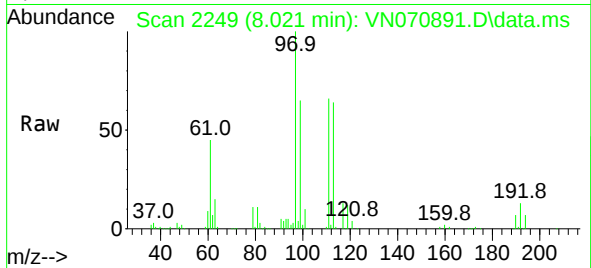
88 16.1 0.0 27.4





#35  
Dibromofluoromethane  
Concen: 20.550 ug/l  
RT: 8.021 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

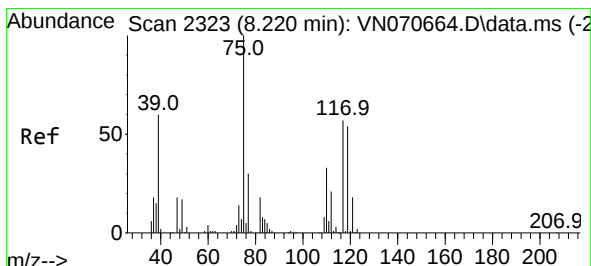
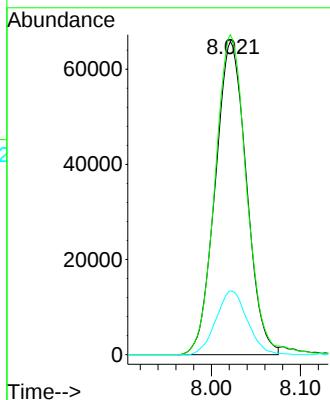
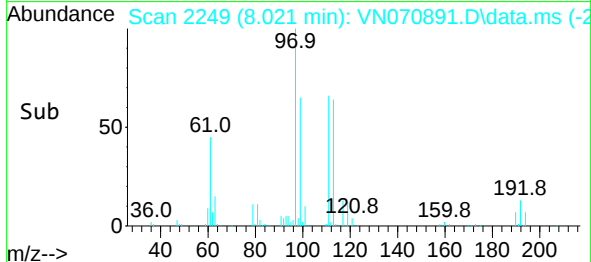
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



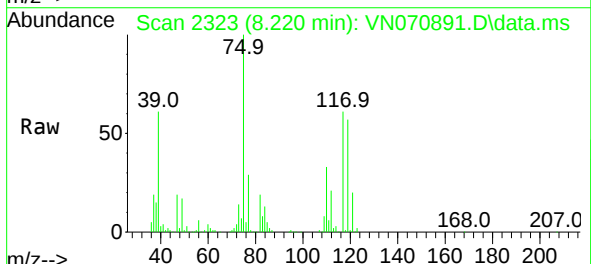
Tgt Ion:113 Resp: 160281  
Ion Ratio Lower Upper  
113 100  
111 103.8 82.2 123.2  
192 20.5 16.9 25.3

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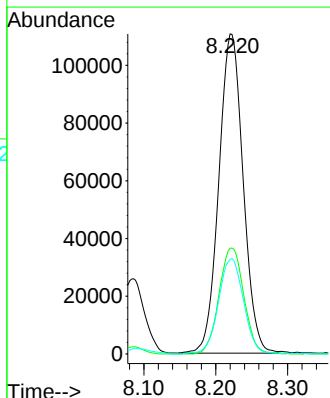
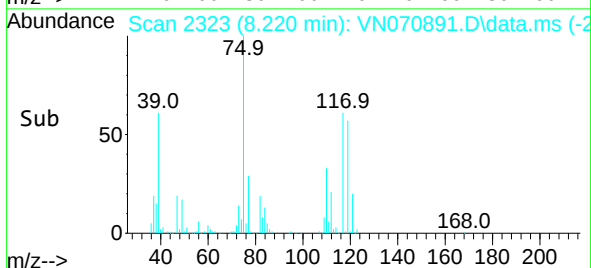
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

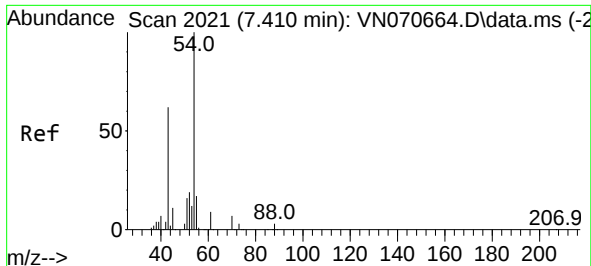


#36  
1,1-Dichloropropene  
Concen: 19.746 ug/l  
RT: 8.220 min Scan# 2323  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



Tgt Ion: 75 Resp: 259281  
Ion Ratio Lower Upper  
75 100  
110 34.0 18.4 55.2  
77 30.9 24.4 36.6





#37

Ethyl Acetate

Concen: 20.098 ug/l

RT: 7.412 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 350369

Ion Ratio Lower Upper

43 100

61 12.7 11.5 17.3

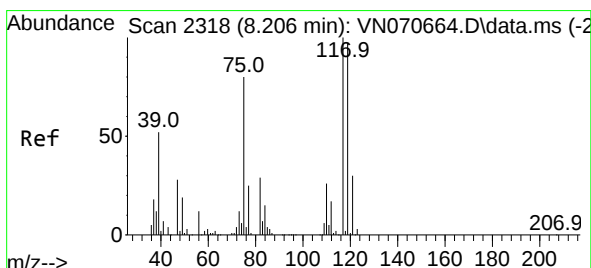
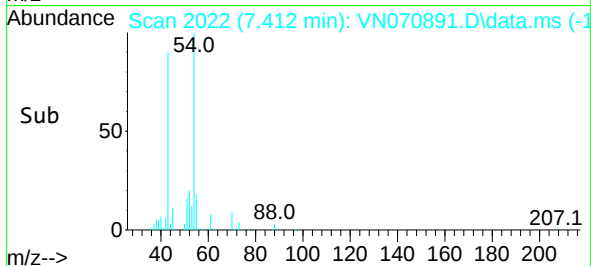
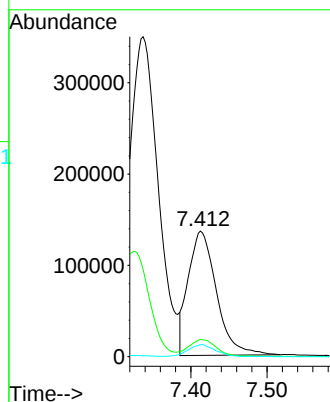
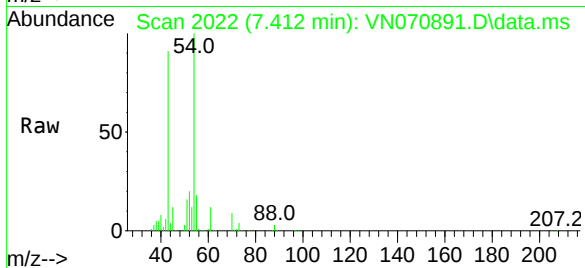
70 9.1 7.9 11.9

Manual Integrations

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Reviewed By :John Carlone 02/03/2022

Supervised By :Mahesh Dadoda 02/04/2022



#38

Carbon Tetrachloride

Concen: 20.376 ug/l

RT: 8.206 min Scan# 2318

Delta R.T. -0.000 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

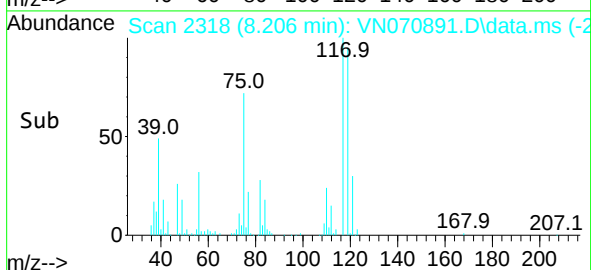
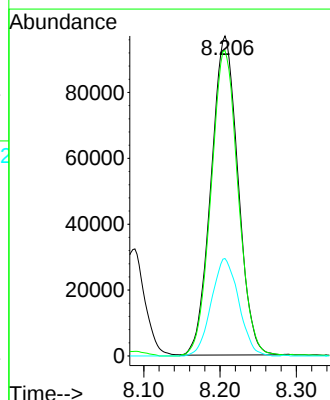
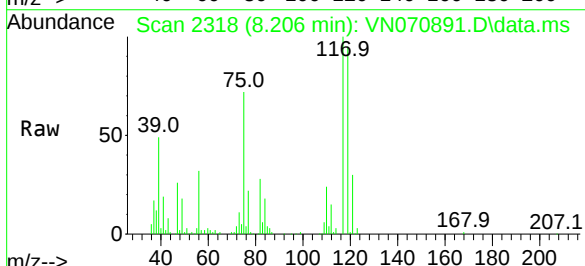
Tgt Ion:117 Resp: 238017

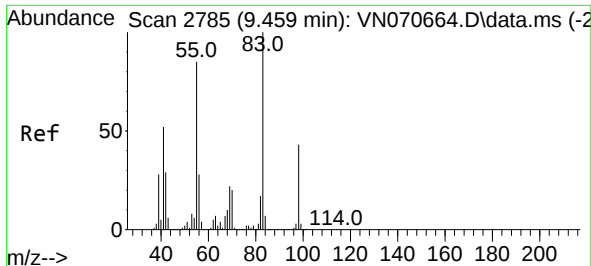
Ion Ratio Lower Upper

117 100

119 95.8 76.1 114.1

121 30.6 24.2 36.2





#39

Methylcyclohexane

Concen: 19.869 ug/l

RT: 9.459 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC020

Tgt Ion: 83 Resp: 32208

Ion Ratio Lower Upper

83 100

55 83.2 58.1 87.1

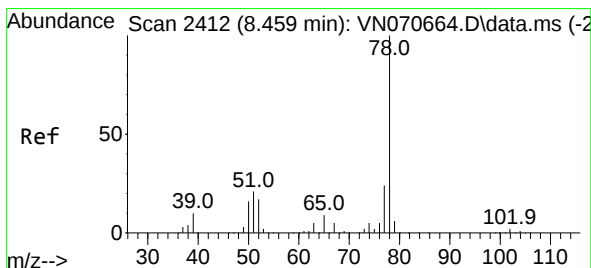
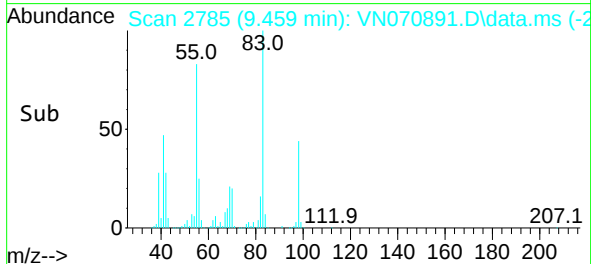
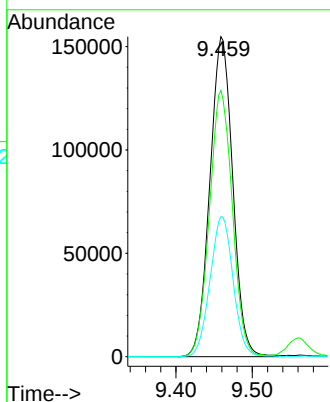
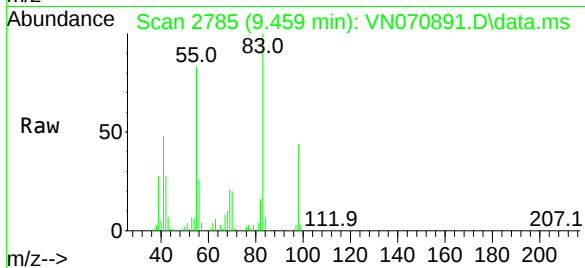
98 43.7 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/03/2022

Supervised By :Mahesh Dadoda 02/04/2022



#40

Benzene

Concen: 19.779 ug/l

RT: 8.461 min Scan# 2413

Delta R.T. 0.003 min

Lab File: VN070891.D

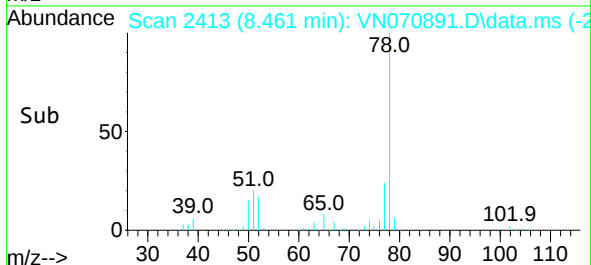
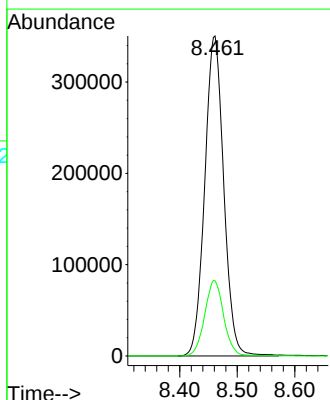
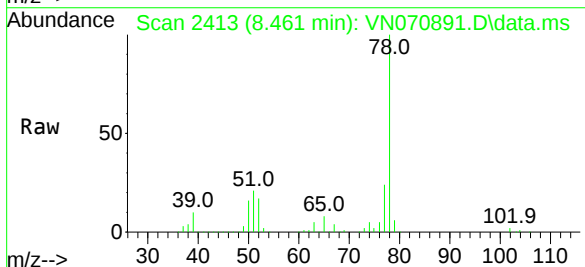
Acq: 2 Feb 2022 13:46

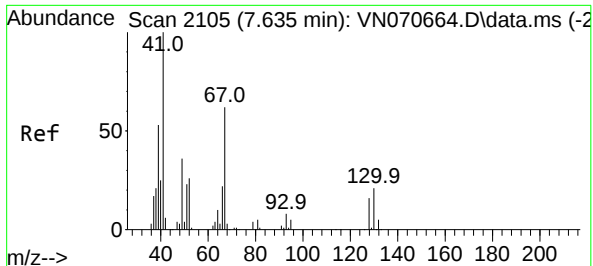
Tgt Ion: 78 Resp: 804742

Ion Ratio Lower Upper

78 100

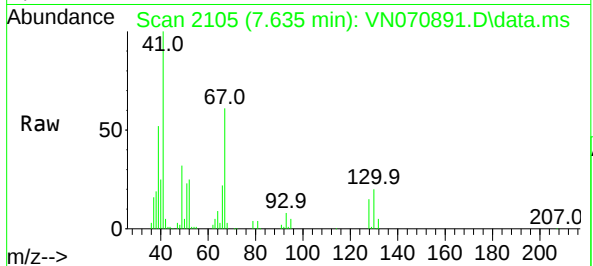
77 23.5 18.6 27.8





#41  
Methacrylonitrile  
Concen: 20.855 ug/l  
RT: 7.635 min Scan# 2105  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

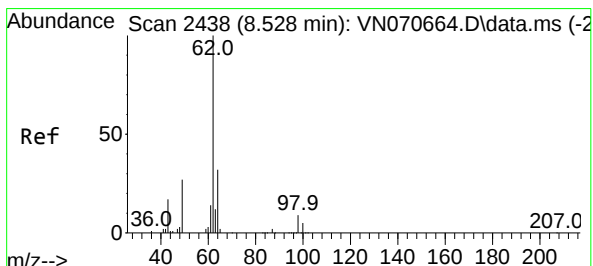
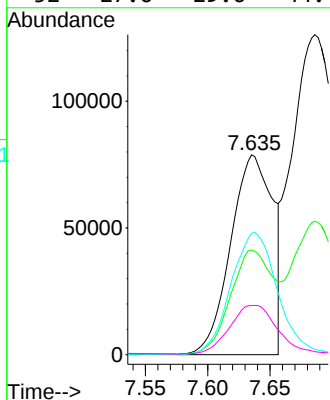
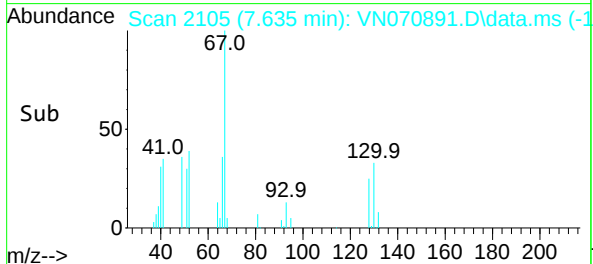
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



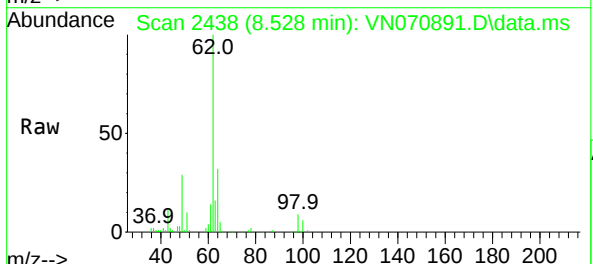
Tgt Ion: 41 Resp: 184962  
Ion Ratio Lower Upper  
41 100  
39 54.0 48.1 72.1  
67 68.0 68.3 102.5  
52 27.6 29.6 44.4#

Manual Integrations  
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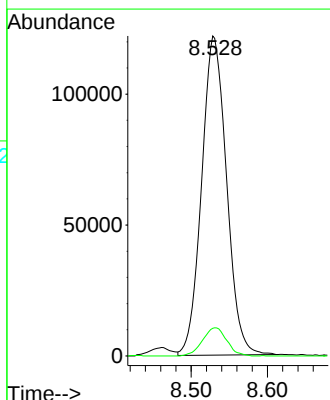
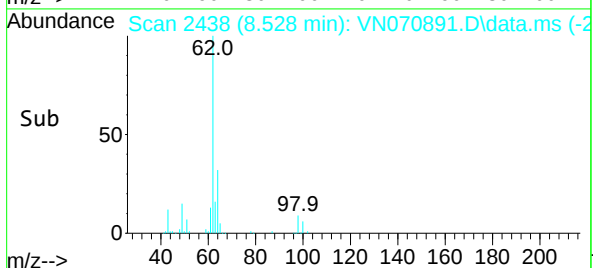
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#42  
1,2-Dichloroethane  
Concen: 19.605 ug/l  
RT: 8.528 min Scan# 2438  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



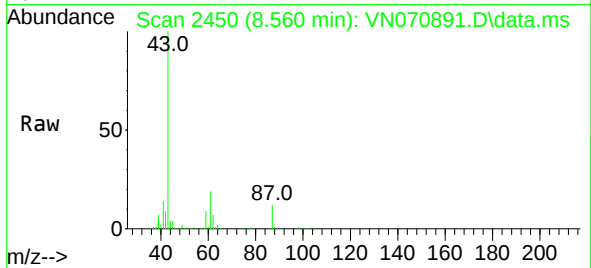
Tgt Ion: 62 Resp: 276588  
Ion Ratio Lower Upper  
62 100  
98 8.6 0.0 17.6





#43  
Isopropyl Acetate  
Concen: 21.261 ug/l  
RT: 8.560 min Scan# 2450  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

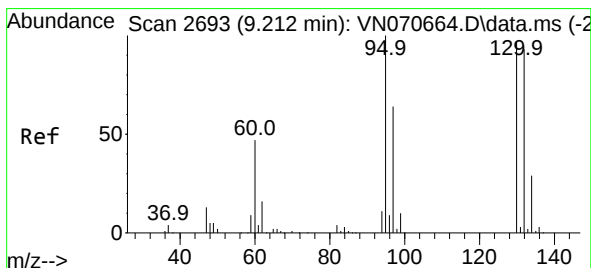
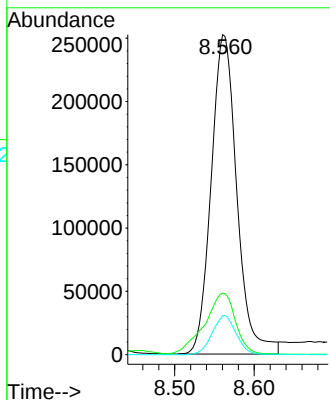
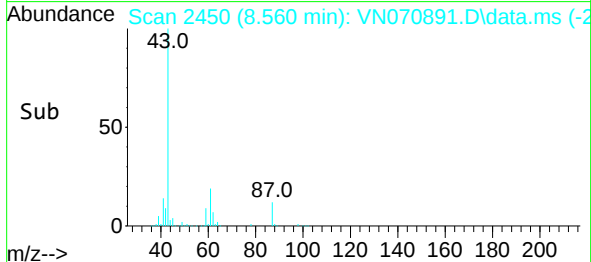
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020



Tgt Ion: 43 Resp: 566119  
Ion Ratio Lower Upper  
43 100  
61 23.2 20.4 30.6  
87 11.4 11.2 16.8

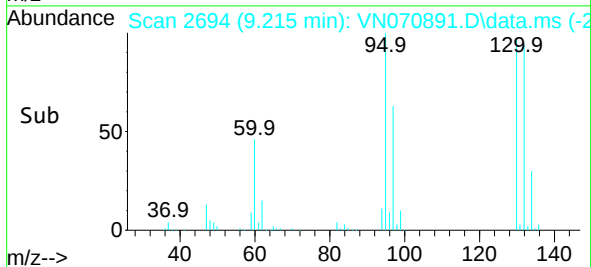
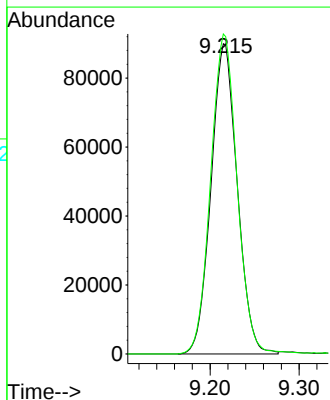
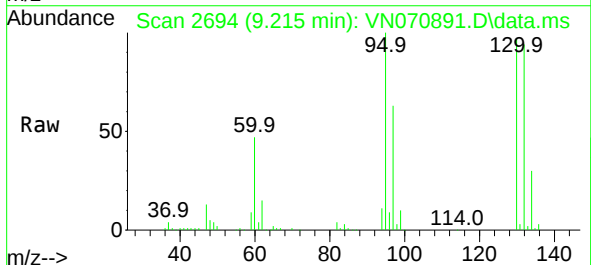
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Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#44  
Trichloroethene  
Concen: 19.974 ug/l  
RT: 9.215 min Scan# 2694  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

Tgt Ion:130 Resp: 184233  
Ion Ratio Lower Upper  
130 100  
95 103.1 0.0 191.2





#45

1,2-Dichloropropane

Concen: 19.739 ug/l

RT: 9.488 min Scan# 21851

Delta R.T. -0.000 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDICC020

Tgt Ion: 63 Resp: 21851

Ion Ratio Lower Upper

63 100

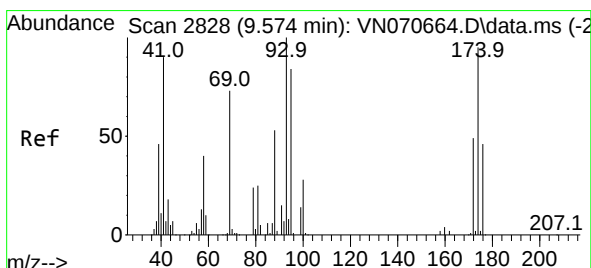
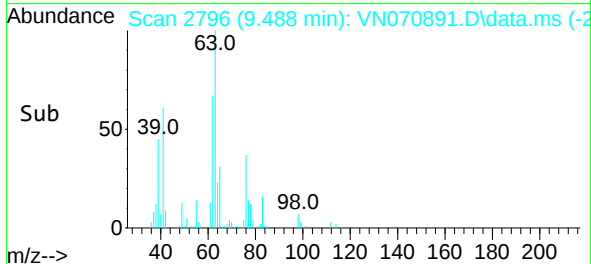
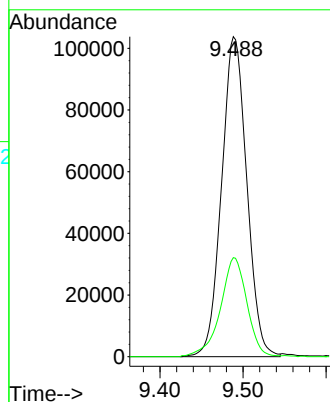
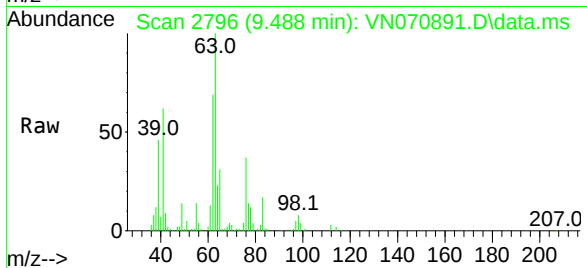
65 31.0 24.7 37.1

Manual Integrations

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Reviewed By :John Carlone 02/03/2022

Supervised By :Mahesh Dadoda 02/04/2022



#46

Dibromomethane

Concen: 20.502 ug/l

RT: 9.577 min Scan# 2829

Delta R.T. -0.000 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

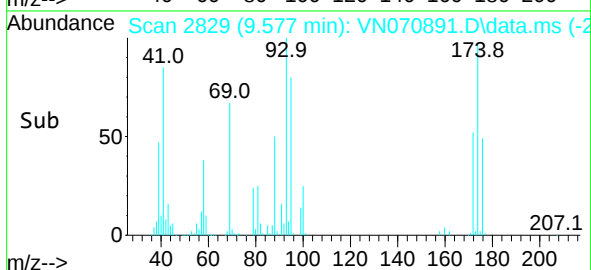
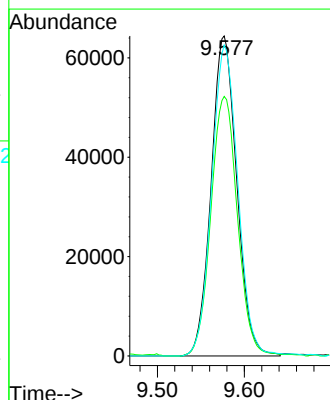
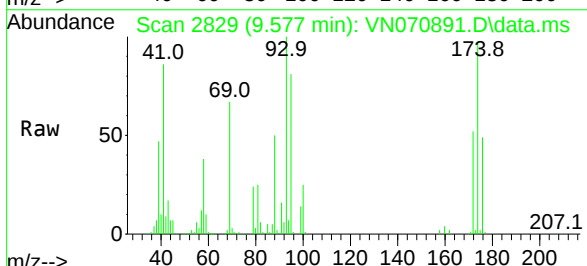
Tgt Ion: 93 Resp: 131967

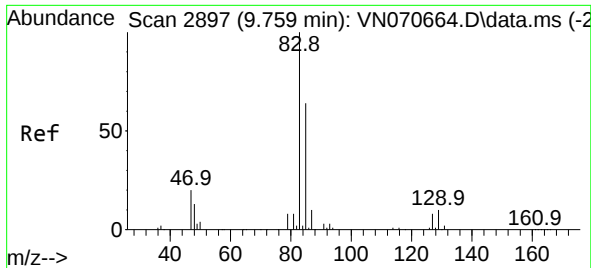
Ion Ratio Lower Upper

93 100

95 84.2 65.9 98.9

174 99.0 84.6 127.0





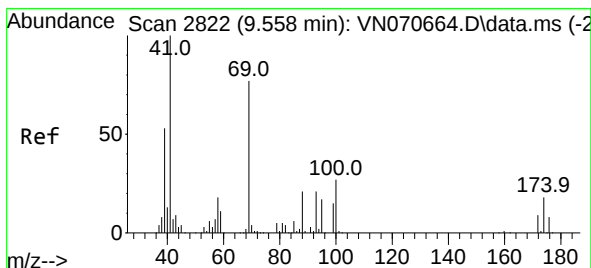
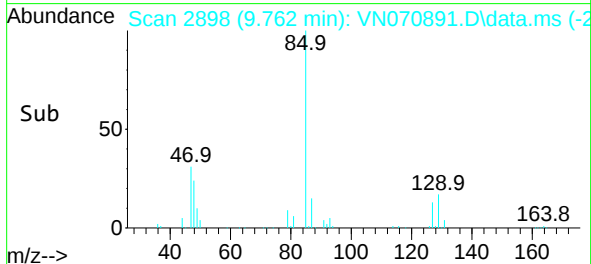
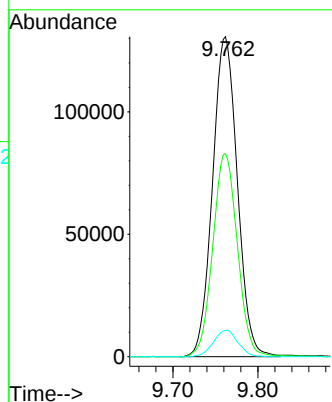
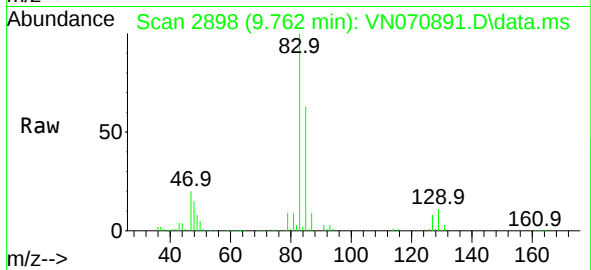
#47  
Bromodichloromethane  
Concen: 20.187 ug/l  
RT: 9.762 min Scan# 2898  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020

Tgt Ion: 83 Resp: 26560  
Ion Ratio Lower Upper  
83 100  
85 63.4 50.9 76.3  
127 8.2 7.1 10.7

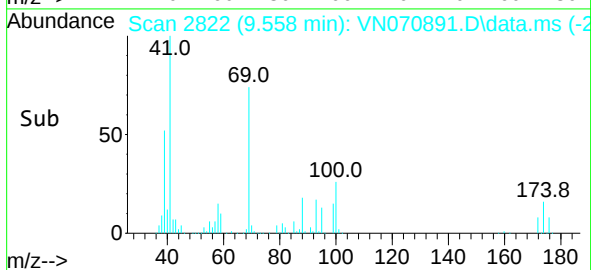
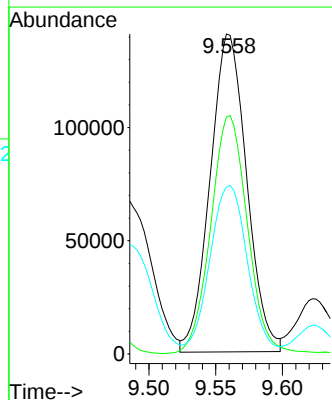
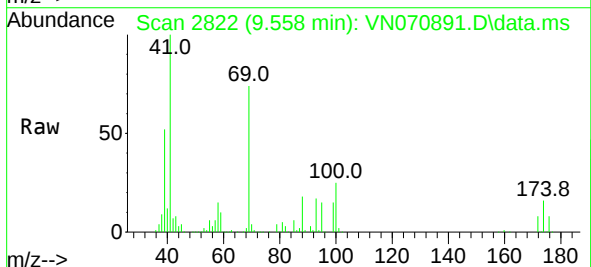
Manual Integrations  
APPROVED

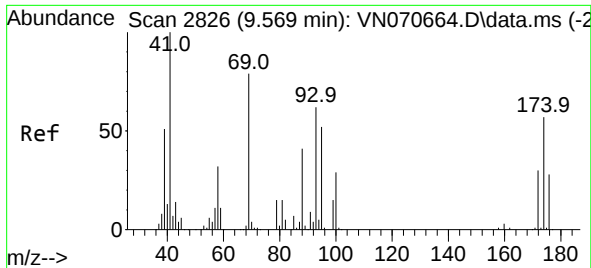
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#48  
Methyl methacrylate  
Concen: 21.087 ug/l  
RT: 9.558 min Scan# 2822  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

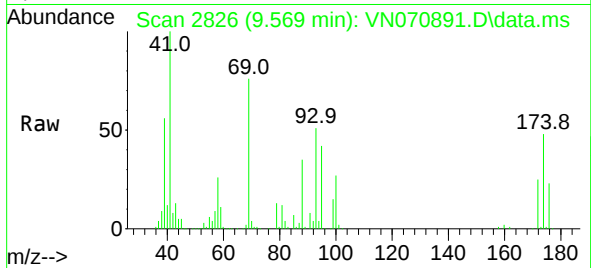
Tgt Ion: 41 Resp: 267486  
Ion Ratio Lower Upper  
41 100  
69 75.1 72.4 108.6  
39 50.3 58.4 87.6#





#49  
1,4-Dioxane  
Concen: 425.260 ug/l  
RT: 9.569 min Scan# 2826  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

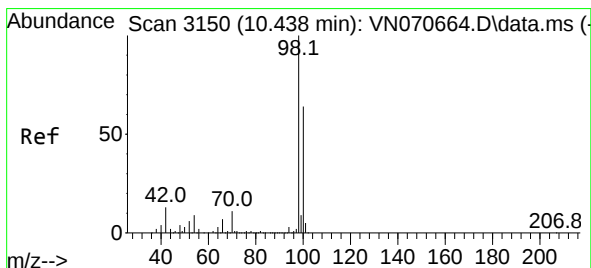
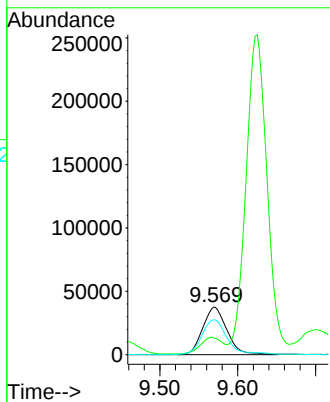
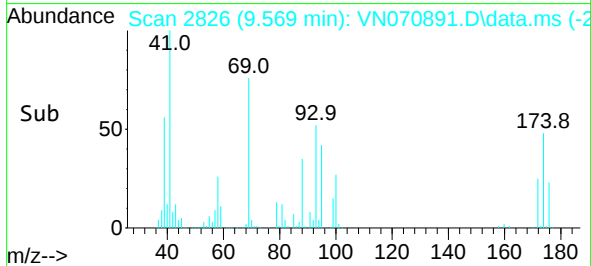
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



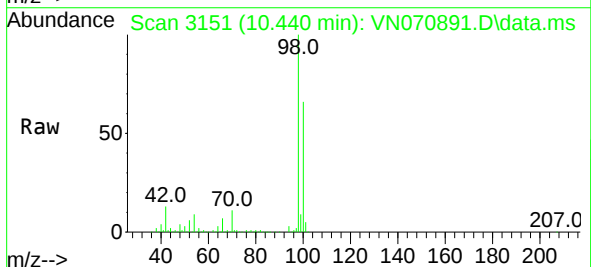
Tgt Ion: 88 Resp: 81029  
Ion Ratio Lower Upper  
88 100  
43 31.1 23.4 35.2  
58 78.2 50.6 75.8

Manual Integrations  
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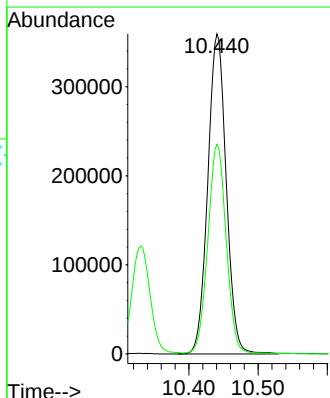
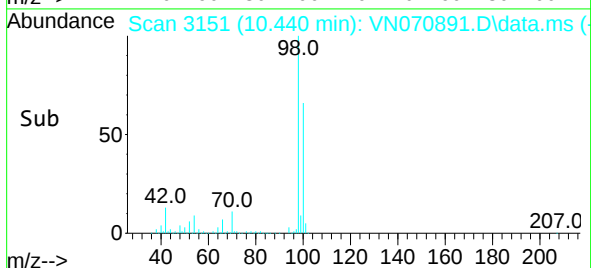
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

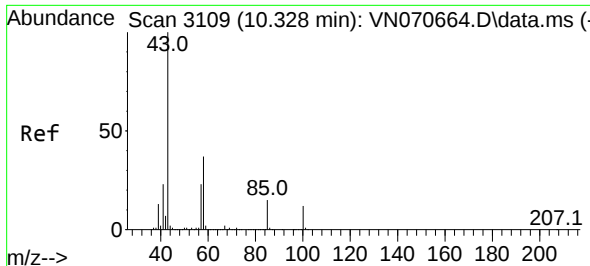


#50  
Toluene-d8  
Concen: 20.188 ug/l  
RT: 10.440 min Scan# 3151  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



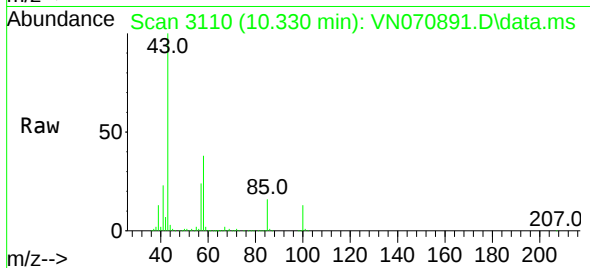
Tgt Ion: 98 Resp: 663339  
Ion Ratio Lower Upper  
98 100  
100 65.0 50.4 75.6





#51  
4-Methyl-2-Pentanone  
Concen: 104.252 ug/l  
RT: 10.330 min Scan# 3110  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

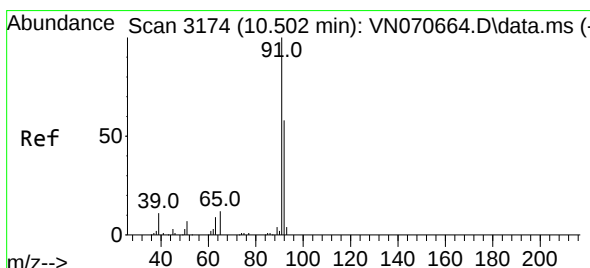
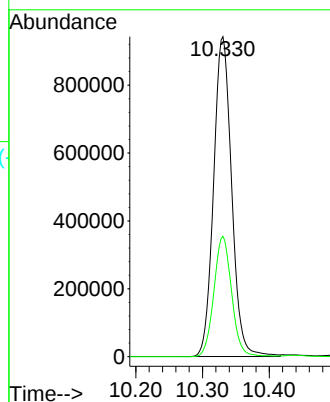
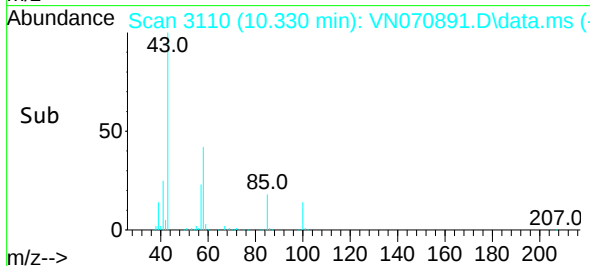
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020



Tgt Ion: 43 Resp: 1771280  
Ion Ratio Lower Upper  
43 100  
58 36.9 30.4 45.6

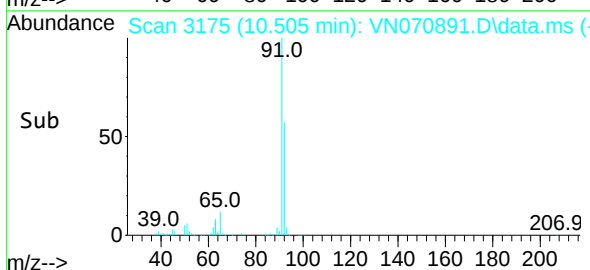
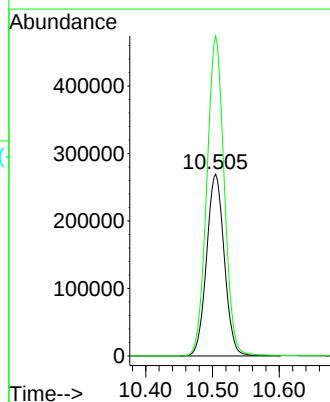
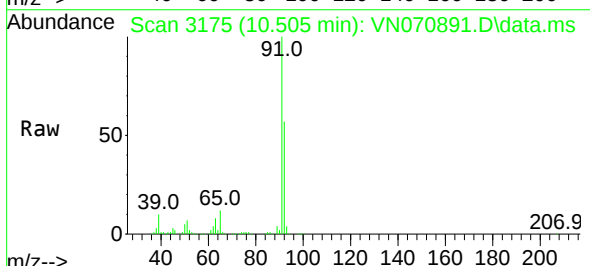
Manual Integrations  
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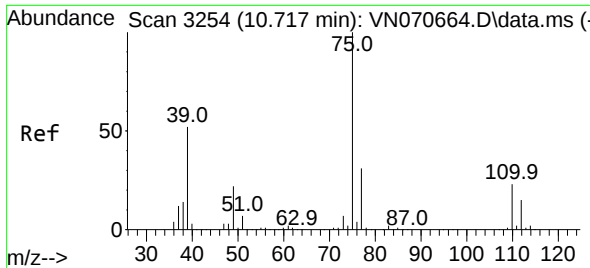
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#52  
Toluene  
Concen: 20.415 ug/l  
RT: 10.505 min Scan# 3175  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

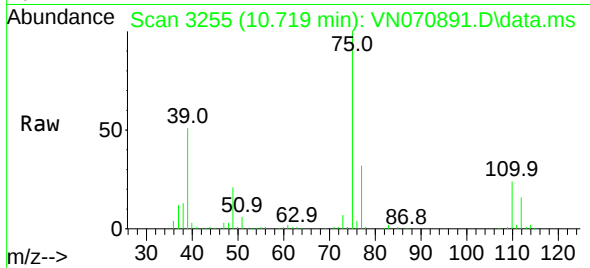
Tgt Ion: 92 Resp: 496855  
Ion Ratio Lower Upper  
92 100  
91 173.0 142.0 213.0





#53  
t-1,3-Dichloropropene  
Concen: 20.775 ug/l  
RT: 10.719 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

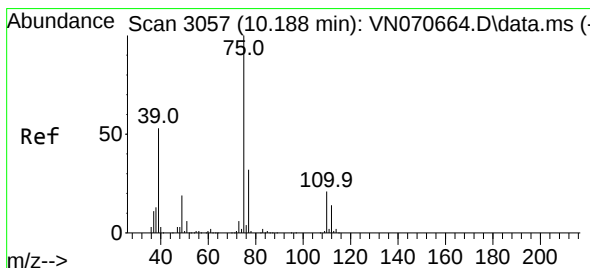
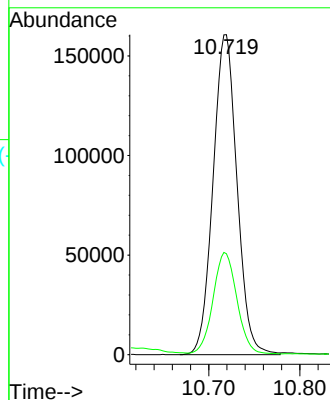
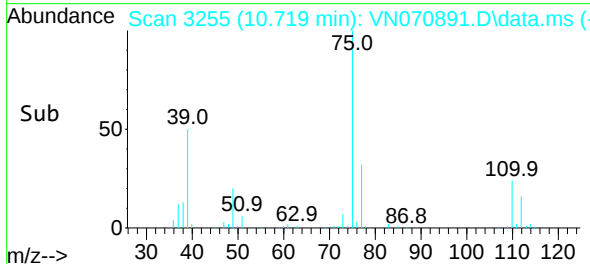
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020



Tgt Ion: 75 Resp: 29328  
Ion Ratio Lower Upper  
75 100  
77 31.3 25.6 38.4

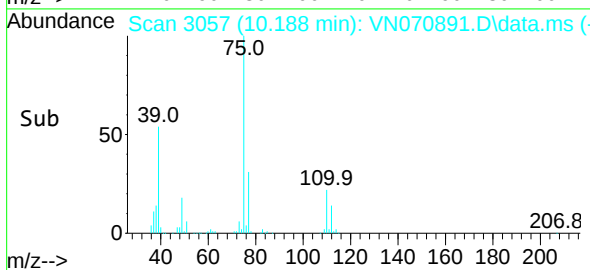
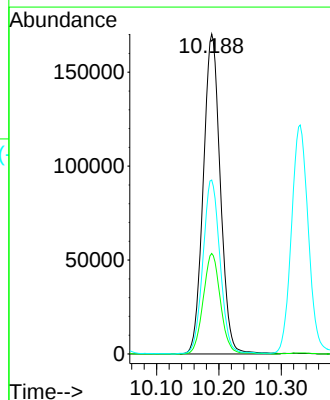
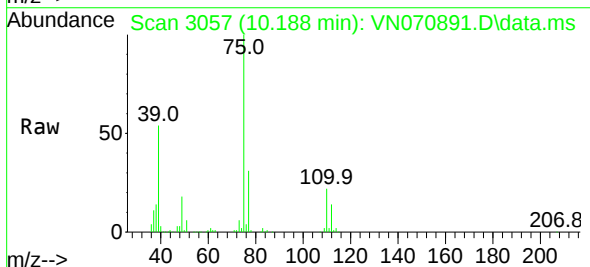
Manual Integrations  
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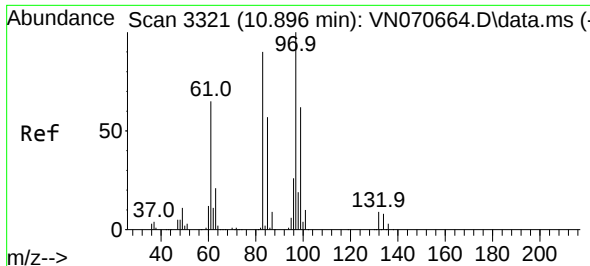
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#54  
cis-1,3-Dichloropropene  
Concen: 20.493 ug/l  
RT: 10.188 min Scan# 3057  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

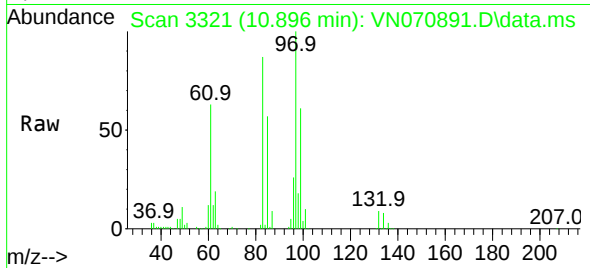
Tgt Ion: 75 Resp: 323359  
Ion Ratio Lower Upper  
75 100  
77 31.4 26.4 39.6  
39 54.2 42.5 63.7





#55  
1,1,2-Trichloroethane  
Concen: 20.321 ug/l  
RT: 10.896 min Scan# 3321  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

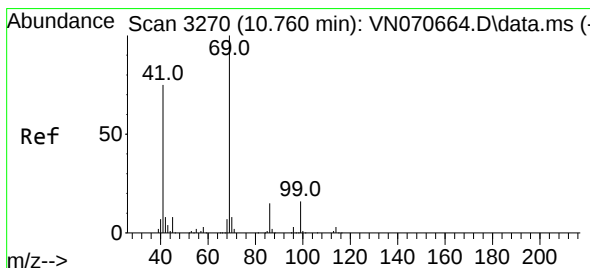
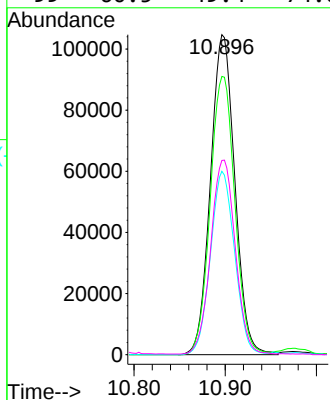
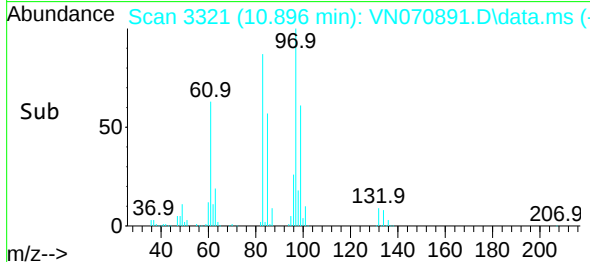
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



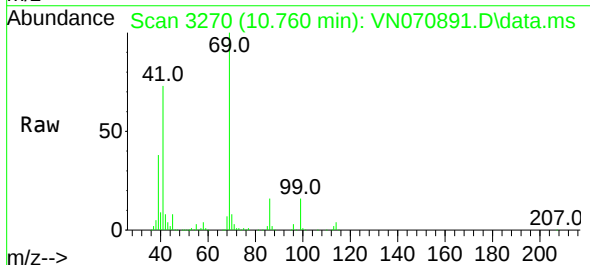
Tgt Ion: 97 Resp: 19428  
Ion Ratio Lower Upper  
97 100  
83 87.0 67.8 101.6  
85 57.3 45.4 68.2  
99 60.5 49.4 74.0

Manual Integrations  
APPROVED

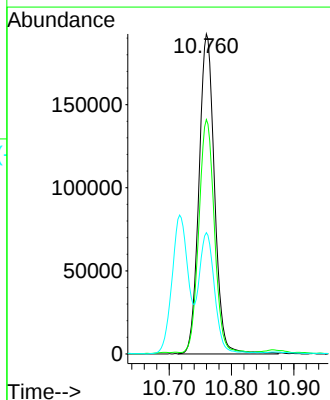
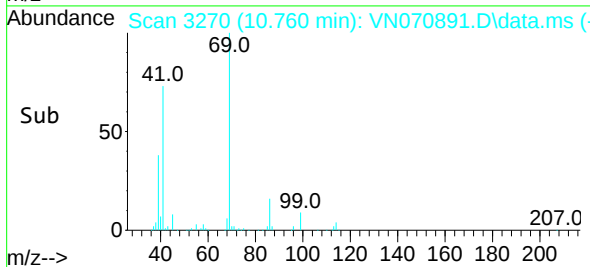
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#56  
Ethyl methacrylate  
Concen: 20.751 ug/l  
RT: 10.760 min Scan# 3270  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



Tgt Ion: 69 Resp: 333532  
Ion Ratio Lower Upper  
69 100  
41 72.6 51.4 77.0  
39 36.3 34.6 52.0





#57

1,3-Dichloropropane

Concen: 19.911 ug/l

RT: 11.044 min Scan# 3376

Delta R.T. -0.000 min

Lab File: VN070891.D

Acq: 2 Feb 2022 13:46

Instrument :

MSVOA\_N

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 337000

Ion Ratio Lower Upper

76 100

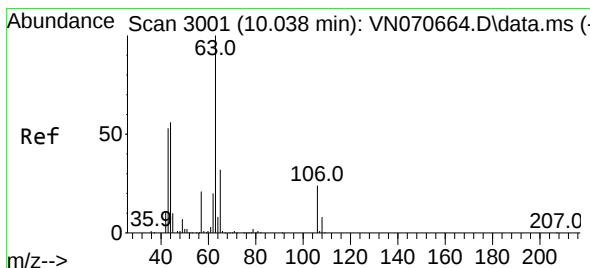
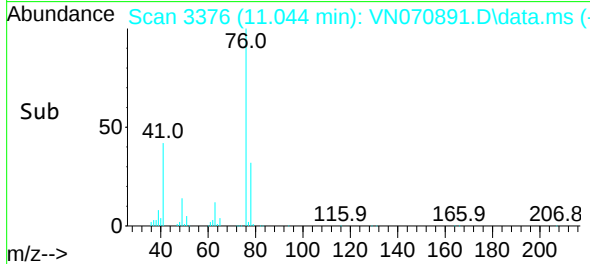
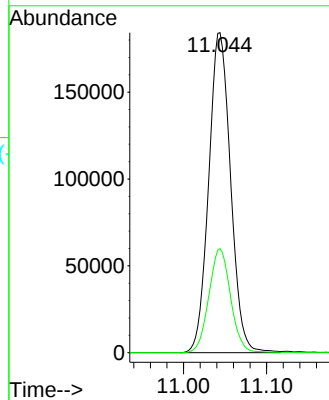
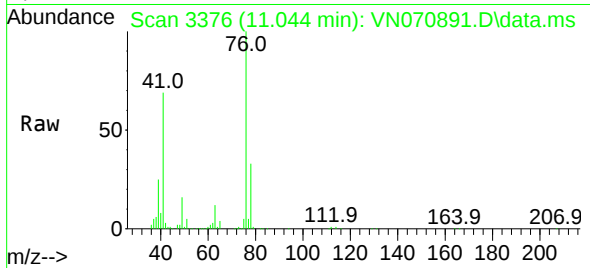
78 32.3 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/03/2022

Supervised By :Mahesh Dadoda 02/04/2022



#58

2-Chloroethyl Vinyl ether

Concen: 94.907 ug/l

RT: 10.041 min Scan# 3002

Delta R.T. -0.000 min

Lab File: VN070891.D

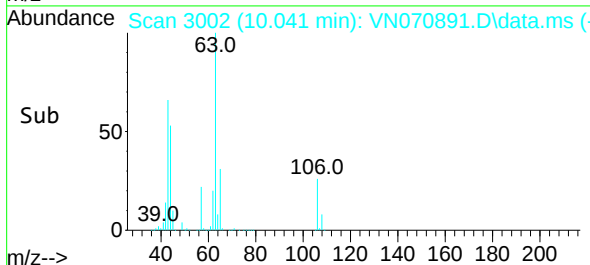
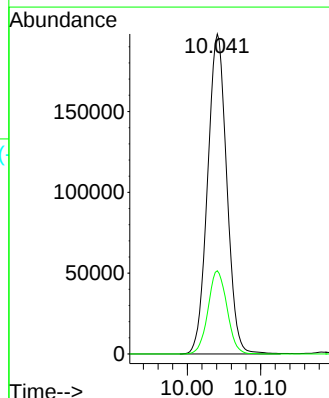
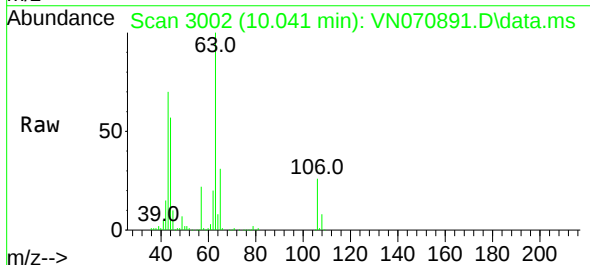
Acq: 2 Feb 2022 13:46

Tgt Ion: 63 Resp: 360170

Ion Ratio Lower Upper

63 100

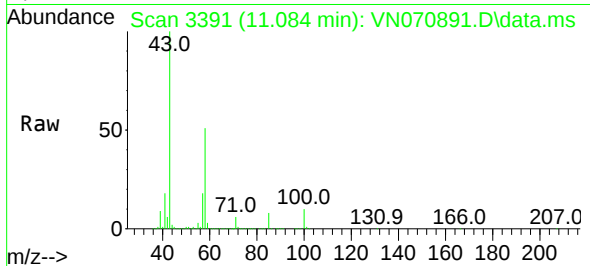
106 25.7 23.9 35.9





#59  
2-Hexanone  
Concen: 104.333 ug/l  
RT: 11.084 min Scan# 3391  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

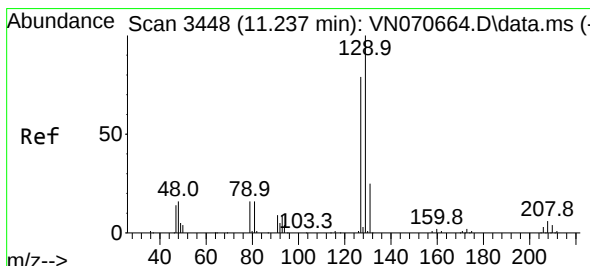
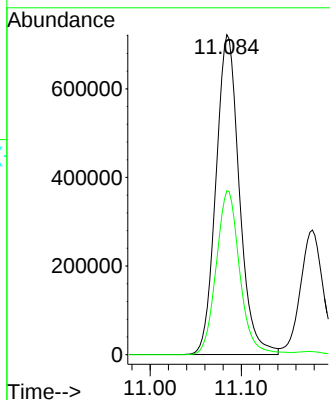
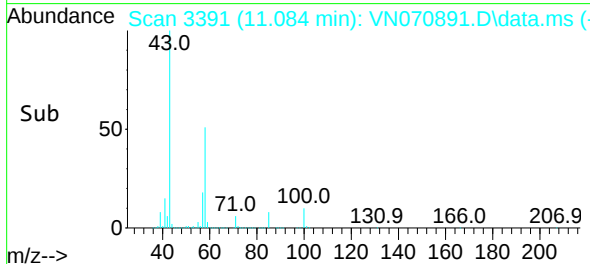
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



Tgt Ion: 43 Resp: 128775  
Ion Ratio Lower Upper  
43 100  
58 51.6 26.9 80.7

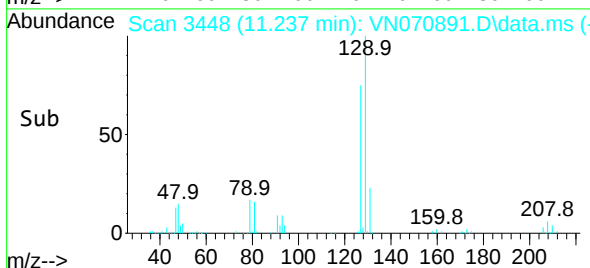
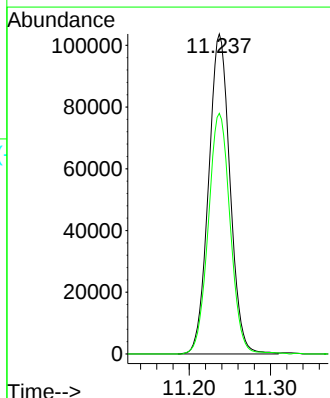
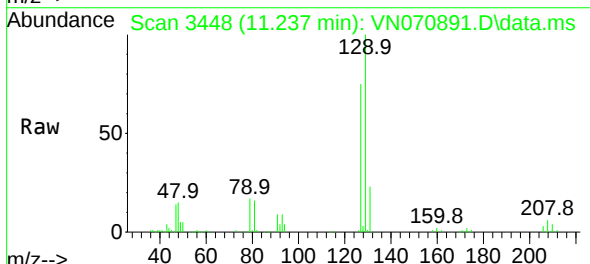
Manual Integrations  
APPROVED

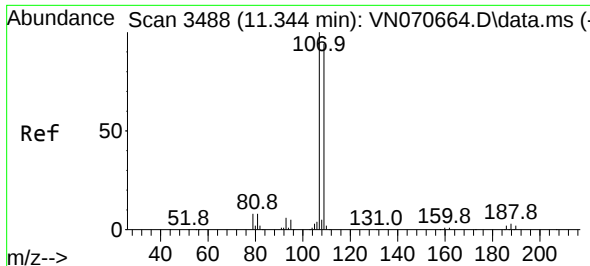
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#60  
Dibromochloromethane  
Concen: 21.265 ug/l  
RT: 11.237 min Scan# 3448  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

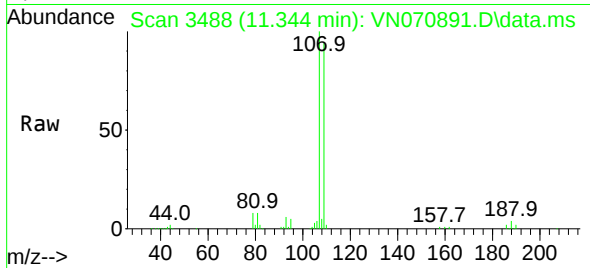
Tgt Ion:129 Resp: 189643  
Ion Ratio Lower Upper  
129 100  
127 77.0 38.6 116.0





#61  
1,2-Dibromoethane  
Concen: 20.619 ug/l  
RT: 11.344 min Scan# 3488  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

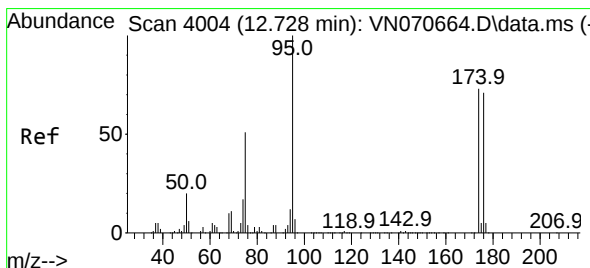
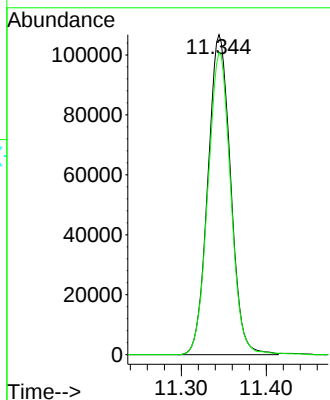
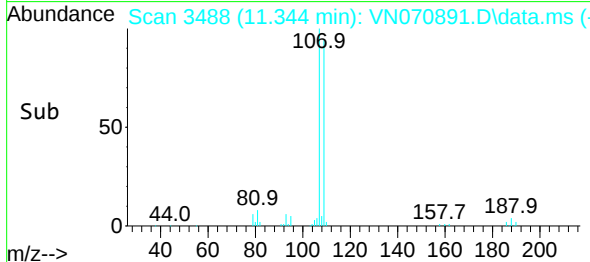
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020



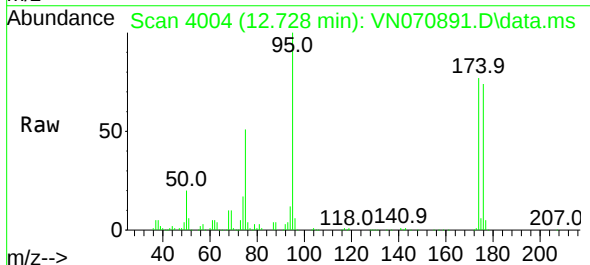
Tgt Ion:107 Resp: 197930  
Ion Ratio Lower Upper  
107 100  
109 94.9 75.7 113.5

Manual Integrations  
APPROVED

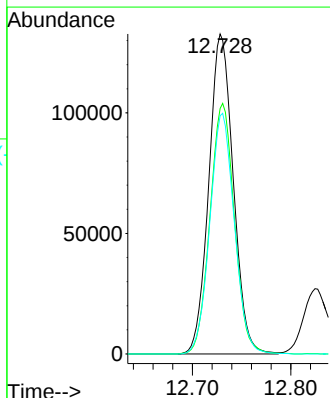
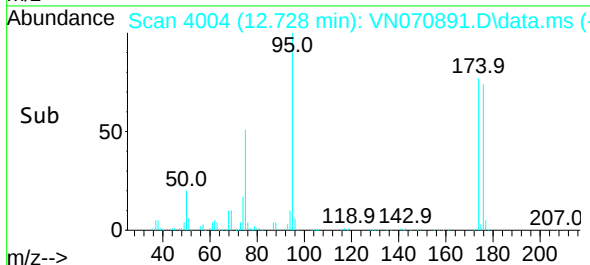
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

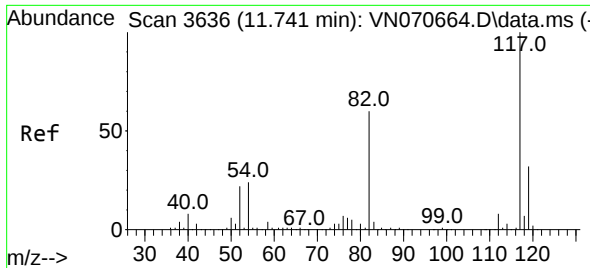


#62  
4-Bromofluorobenzene  
Concen: 19.587 ug/l  
RT: 12.728 min Scan# 4004  
Delta R.T. -0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



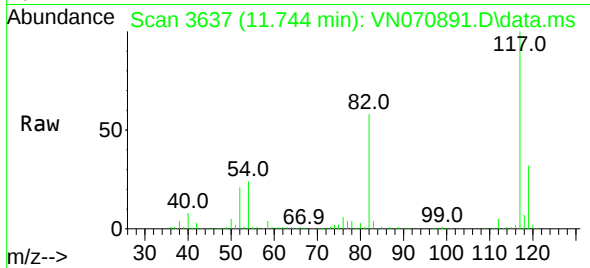
Tgt Ion: 95 Resp: 229342  
Ion Ratio Lower Upper  
95 100  
174 78.3 0.0 187.2  
176 75.4 0.0 181.4





#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.744 min Scan# 3637  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

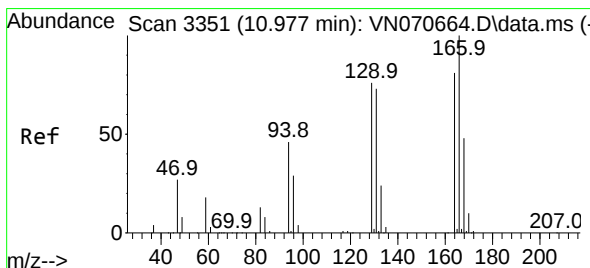
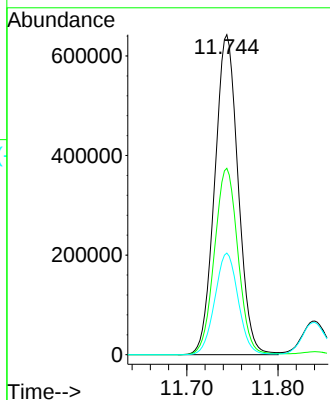
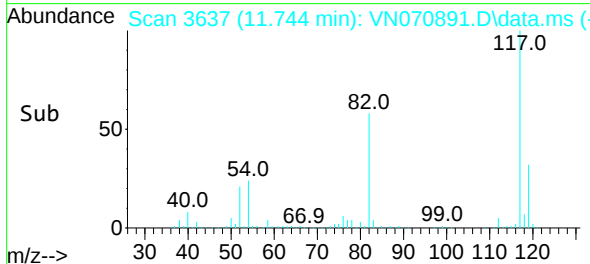
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



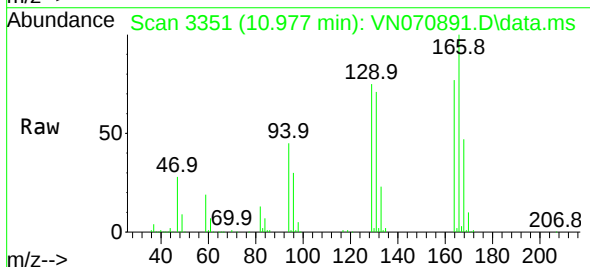
Tgt Ion:117 Resp: 114529  
Ion Ratio Lower Upper  
117 100  
82 58.2 42.4 63.6  
119 31.7 25.4 38.2

Manual Integrations  
APPROVED

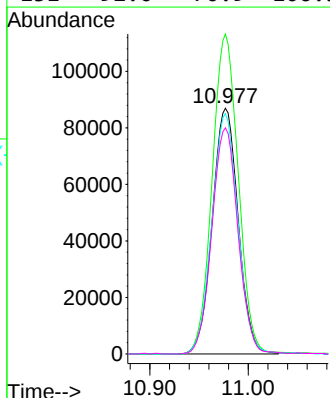
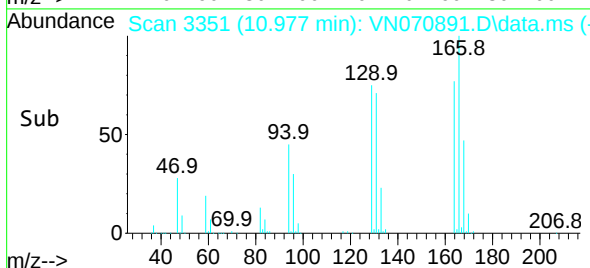
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

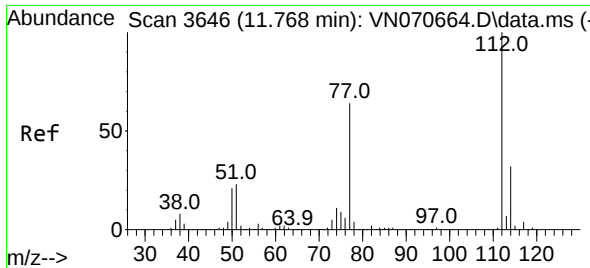


#64  
Tetrachloroethene  
Concen: 19.017 ug/l  
RT: 10.977 min Scan# 3351  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



Tgt Ion:164 Resp: 159696  
Ion Ratio Lower Upper  
164 100  
166 130.2 101.9 152.9  
129 97.9 72.0 108.0  
131 92.0 70.9 106.3





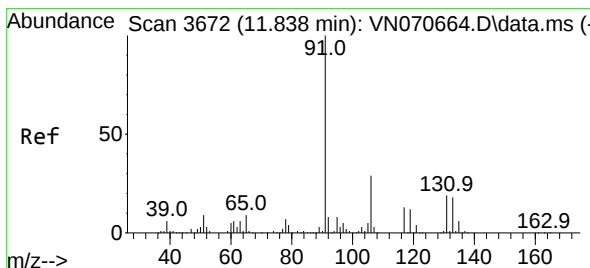
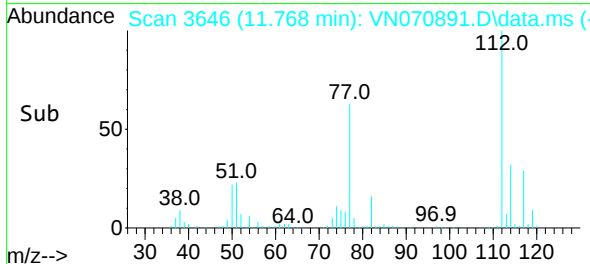
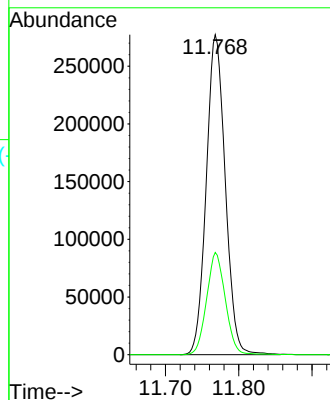
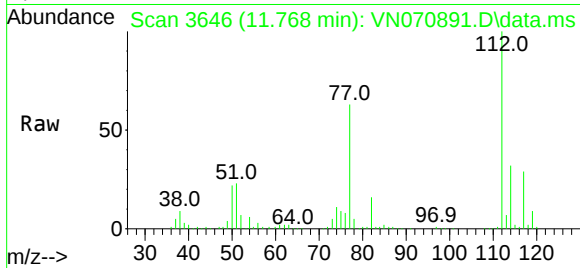
#65  
Chlorobenzene  
Concen: 20.127 ug/l  
RT: 11.768 min Scan# 3646  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020

Tgt Ion:112 Resp: 49944  
Ion Ratio Lower Upper  
112 100  
114 32.0 25.4 38.0

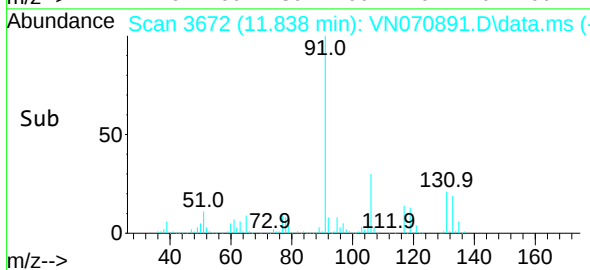
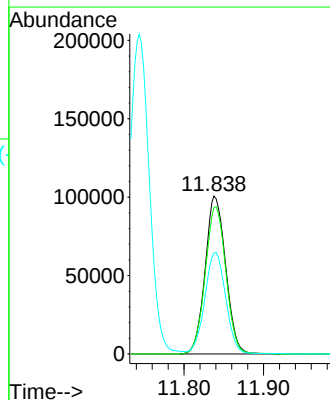
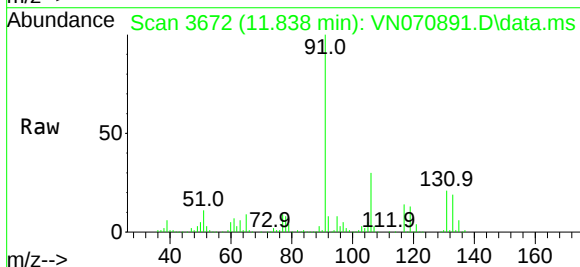
Manual Integrations  
APPROVED

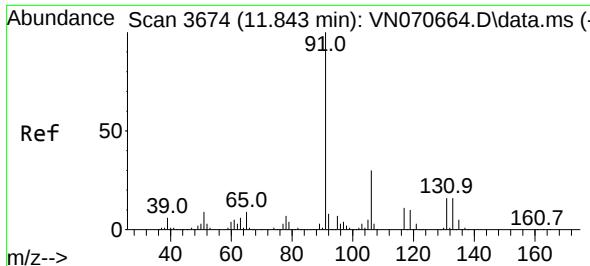
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#66  
1,1,1,2-Tetrachloroethane  
Concen: 21.182 ug/l  
RT: 11.838 min Scan# 3672  
Delta R.T. -0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

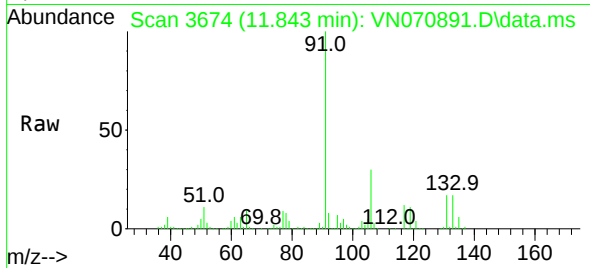
Tgt Ion:131 Resp: 181002  
Ion Ratio Lower Upper  
131 100  
133 93.4 47.9 143.7  
119 65.0 32.1 96.5





#67  
Ethyl Benzene  
Concen: 20.157 ug/l  
RT: 11.843 min Scan# 3674  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

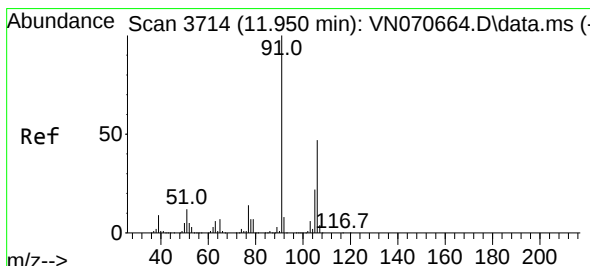
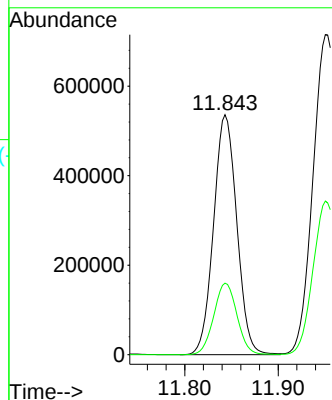
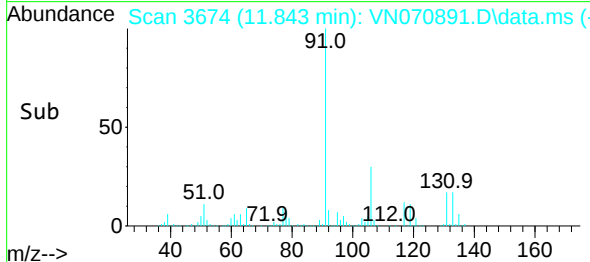
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020



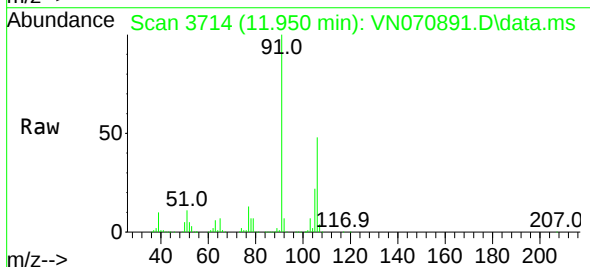
Tgt Ion: 91 Resp: 927360  
Ion Ratio Lower Upper  
91 100  
106 29.8 25.7 38.5

Manual Integrations  
APPROVED

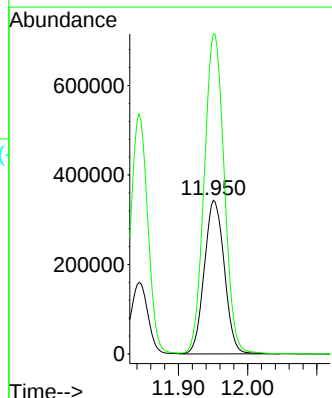
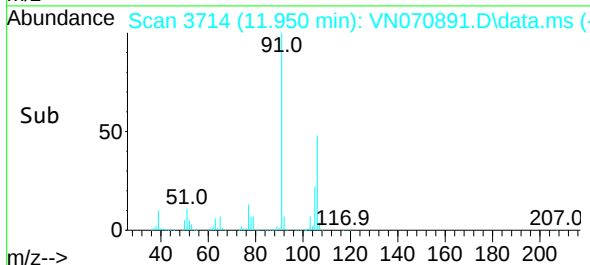
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

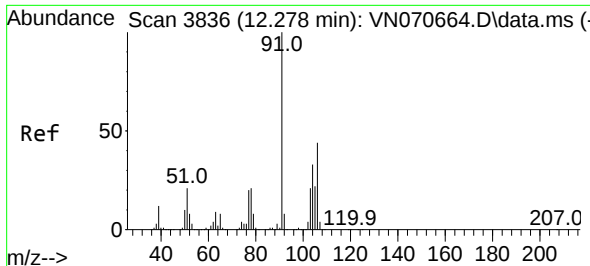


#68  
m/p-Xylenes  
Concen: 41.236 ug/l  
RT: 11.950 min Scan# 3714  
Delta R.T. -0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



Tgt Ion:106 Resp: 690144  
Ion Ratio Lower Upper  
106 100  
91 208.2 160.6 240.8





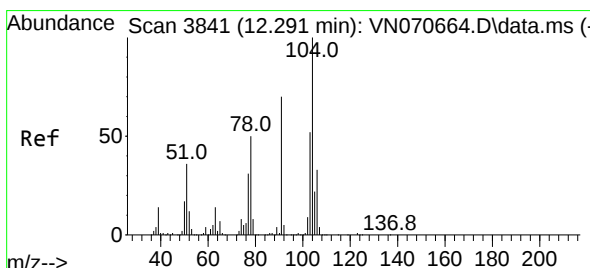
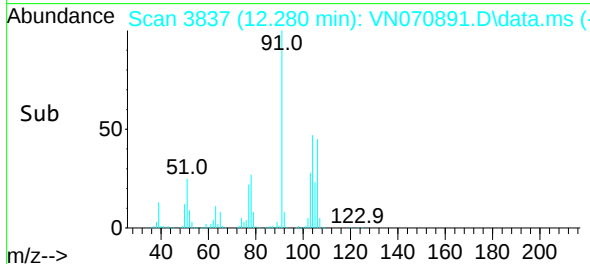
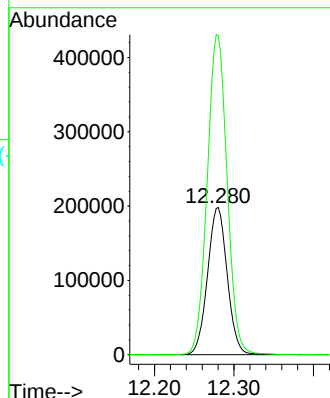
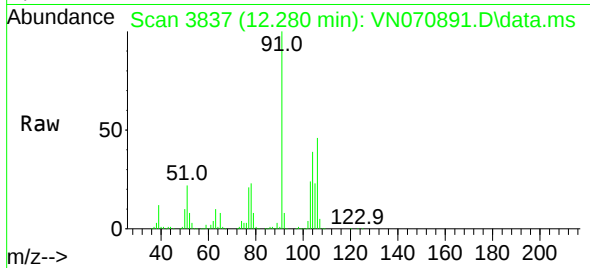
#69  
o-Xylene  
Concen: 20.551 ug/l  
RT: 12.280 min Scan# 3837  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020

Tgt Ion:106 Resp: 34133  
Ion Ratio Lower Upper  
106 100  
91 219.8 105.8 317.3

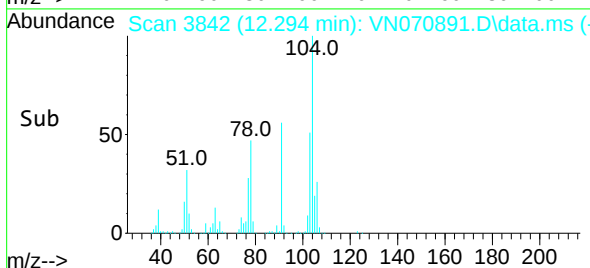
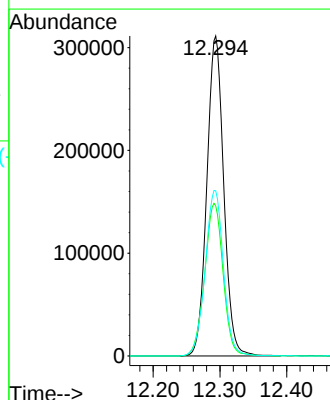
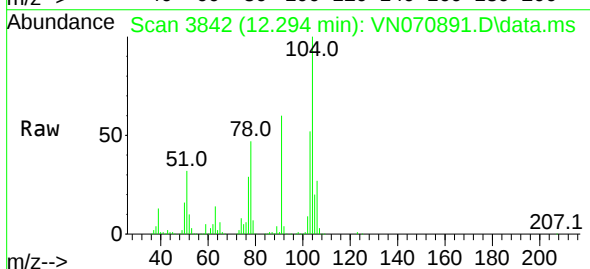
Manual Integrations  
APPROVED

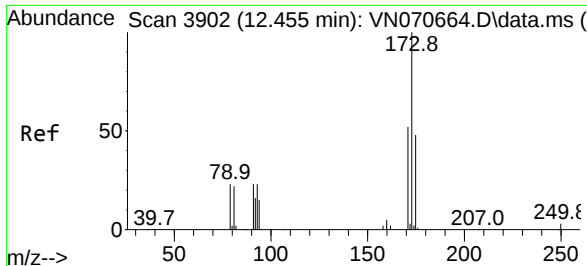
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#70  
Styrene  
Concen: 20.602 ug/l  
RT: 12.294 min Scan# 3842  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

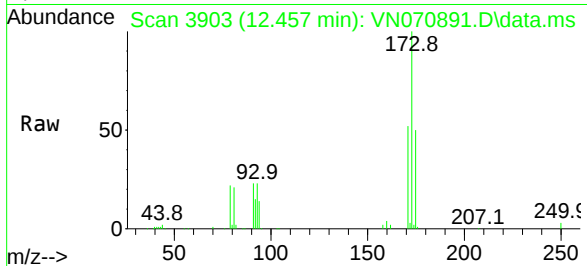
Tgt Ion:104 Resp: 547423  
Ion Ratio Lower Upper  
104 100  
78 52.2 38.7 58.1  
103 56.0 45.0 67.6





#71  
Bromoform  
Concen: 22.321 ug/l  
RT: 12.457 min Scan# 3903  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

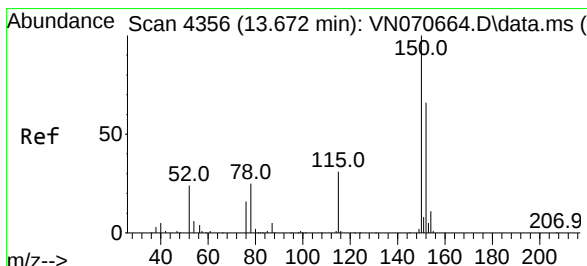
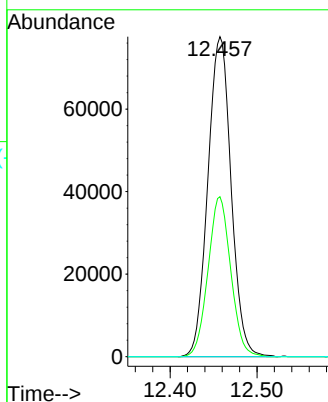
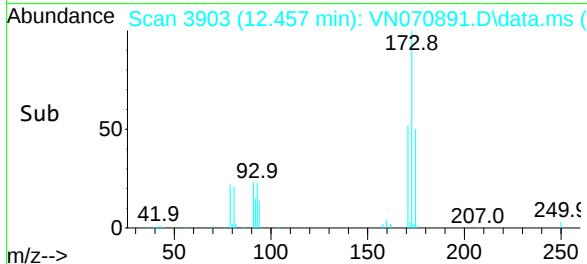
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



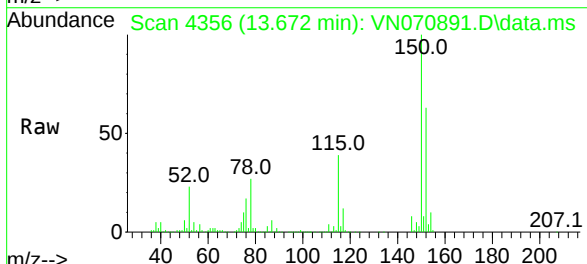
Tgt Ion:173 Resp: 144075  
Ion Ratio Lower Upper  
173 100  
175 48.9 24.2 72.6  
254 0.0 0.0 0.0

Manual Integrations  
APPROVED

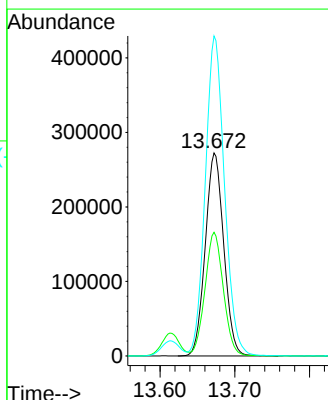
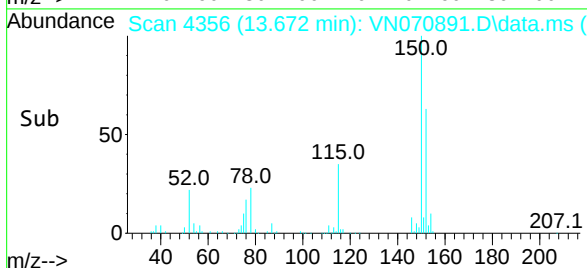
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

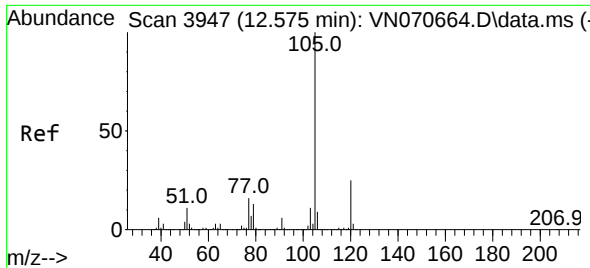


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.672 min Scan# 4356  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



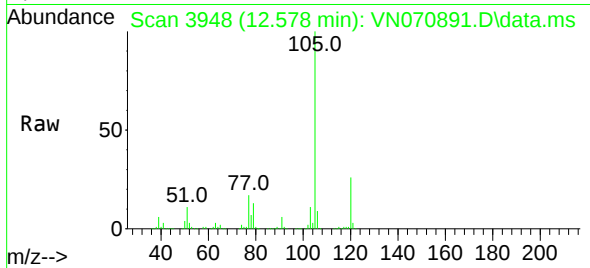
Tgt Ion:152 Resp: 468084  
Ion Ratio Lower Upper  
152 100  
115 60.5 27.5 82.5  
150 164.3 0.0 344.4





#73  
Isopropylbenzene  
Concen: 19.932 ug/l  
RT: 12.578 min Scan# 3947  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

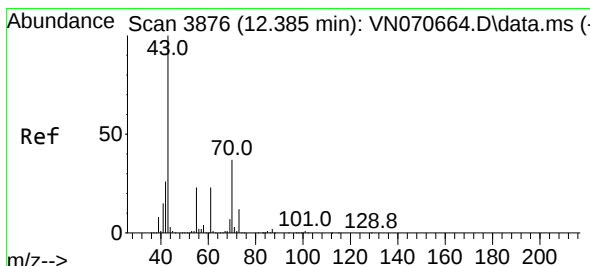
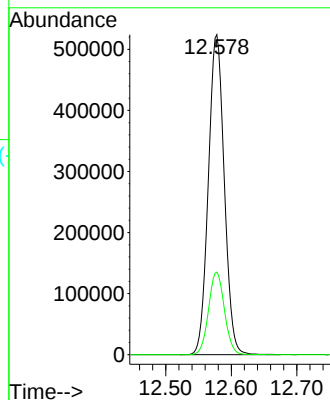
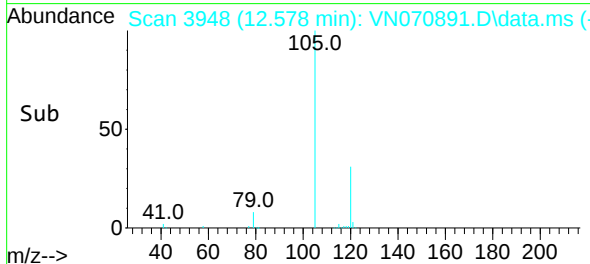
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



Tgt Ion:105 Resp: 882660  
Ion Ratio Lower Upper  
105 100  
120 25.8 13.4 40.1

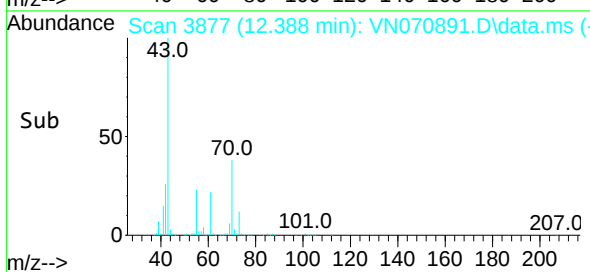
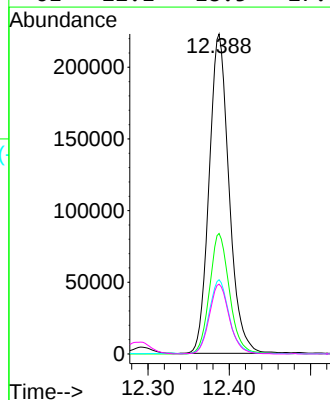
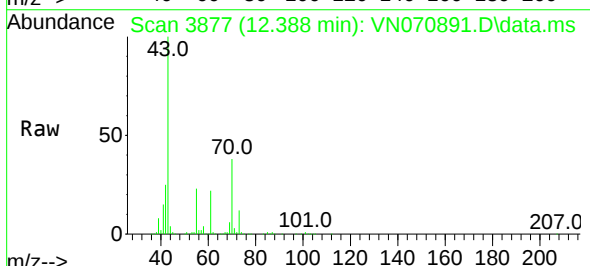
Manual Integrations  
APPROVED

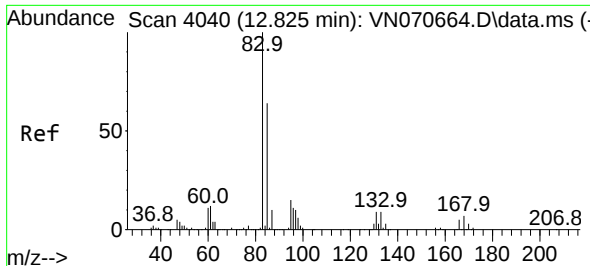
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#74  
N-ethyl acetate  
Concen: 20.961 ug/l  
RT: 12.388 min Scan# 3877  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

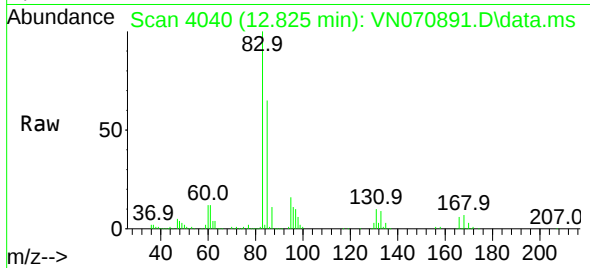
Tgt Ion: 43 Resp: 379514  
Ion Ratio Lower Upper  
43 100  
70 37.7 33.4 50.0  
55 23.2 19.3 28.9  
61 22.1 18.5 27.7





#75  
1,1,2,2-Tetrachloroethane  
Concen: 20.172 ug/l  
RT: 12.825 min Scan# 4040  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

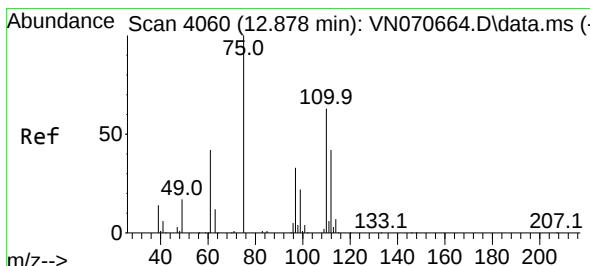
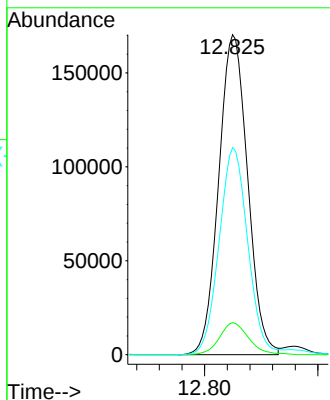
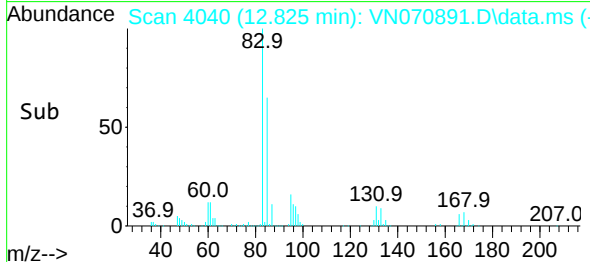
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



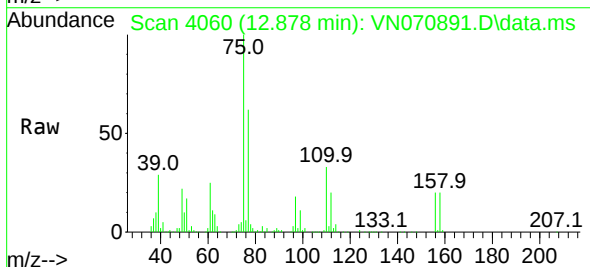
Tgt Ion: 83 Resp: 30168  
Ion Ratio Lower Upper  
83 100  
131 10.2 5.5 16.5  
85 64.1 32.4 97.2

Manual Integrations  
APPROVED

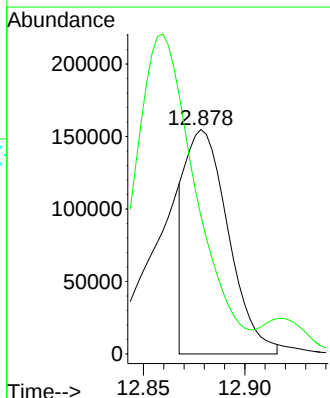
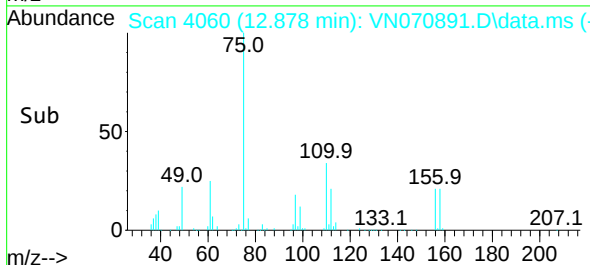
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

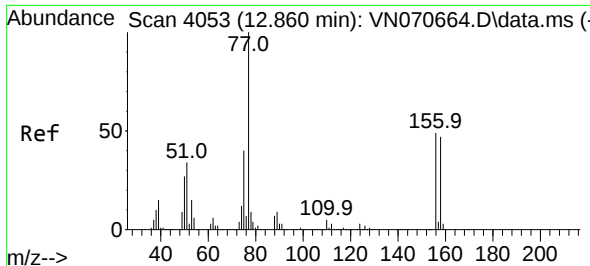


#76  
1,2,3-Trichloropropane  
Concen: 18.295 ug/l m  
RT: 12.878 min Scan# 4060  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



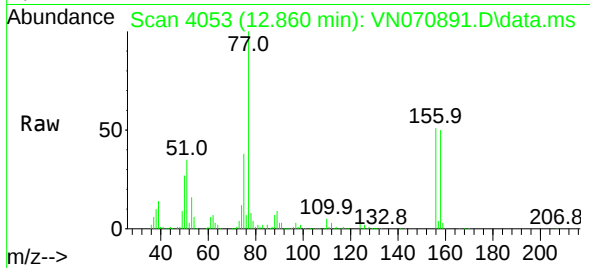
Tgt Ion: 75 Resp: 227133  
Ion Ratio Lower Upper  
75 100  
77 203.5 82.6 247.8





#77  
Bromobenzene  
Concen: 20.657 ug/l  
RT: 12.860 min Scan# 4053  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

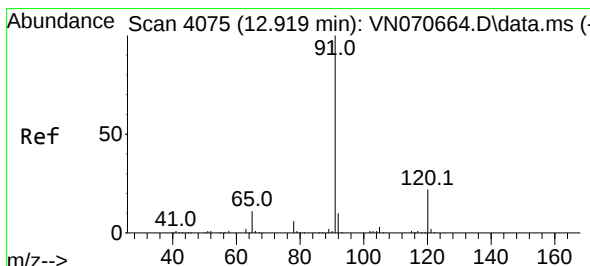
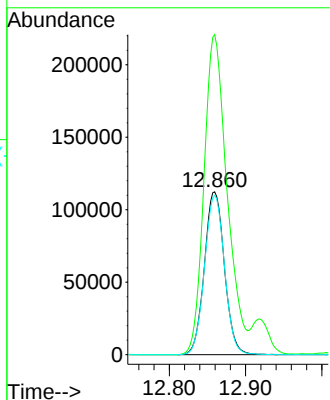
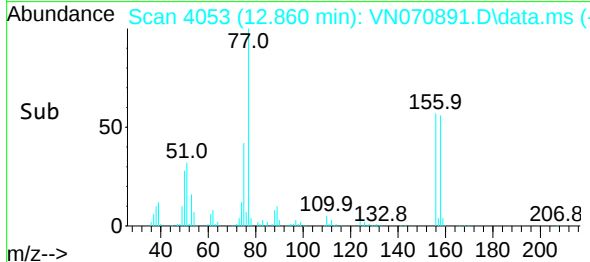
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



Tgt Ion:156 Resp: 205091  
Ion Ratio Lower Upper  
156 100  
77 225.3 90.6 271.8  
158 97.6 48.9 146.7

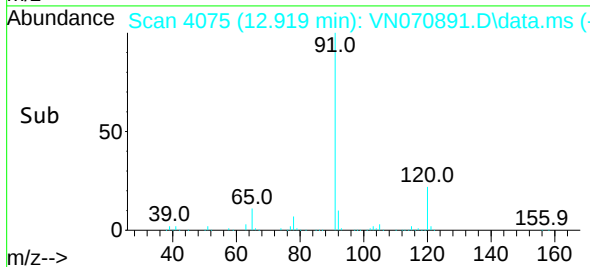
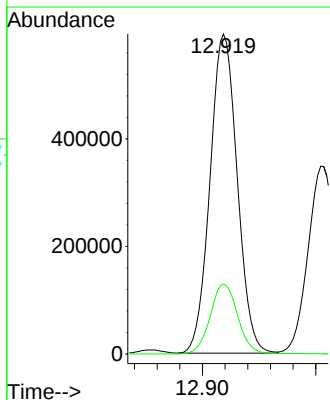
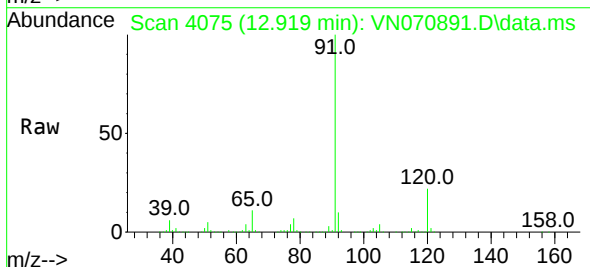
Manual Integrations  
APPROVED

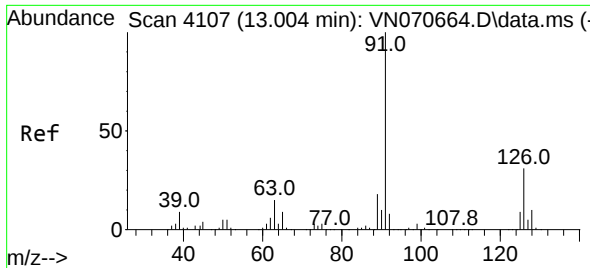
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#78  
n-propylbenzene  
Concen: 19.968 ug/l  
RT: 12.919 min Scan# 4075  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

Tgt Ion: 91 Resp: 988871  
Ion Ratio Lower Upper  
91 100  
120 22.2 11.9 35.9





#79  
2-Chlorotoluene  
Concen: 19.554 ug/l  
RT: 13.004 min Scan# 4107  
Delta R.T. -0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

Instrument :

MSVOA\_N

ClientSampleId :

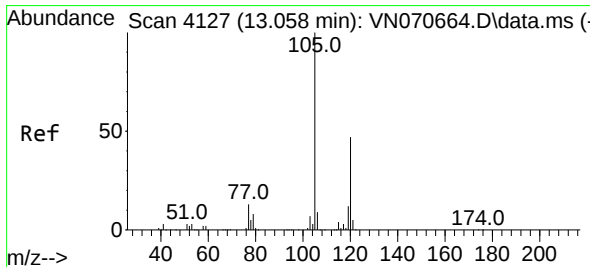
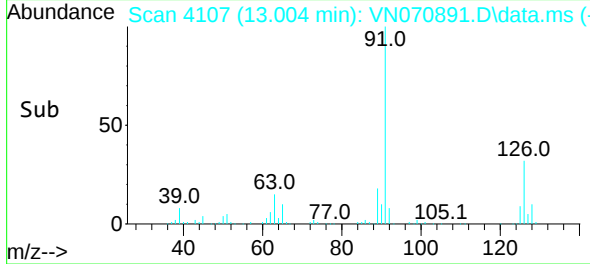
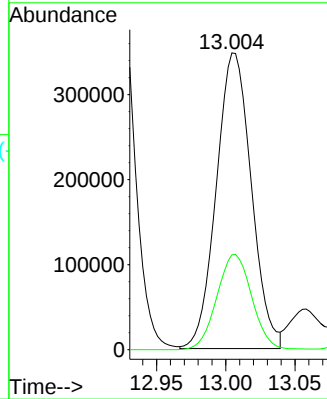
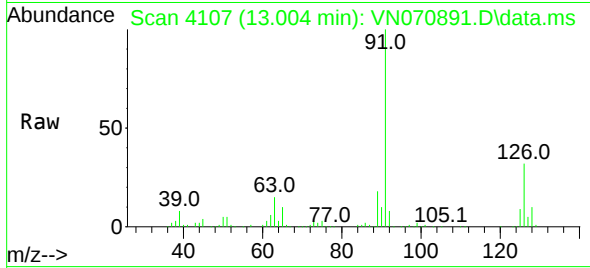
VSTDICC020

Tgt Ion: 91 Resp: 61257  
Ion Ratio Lower Upper  
91 100  
126 32.2 18.3 54.8

Manual Integrations

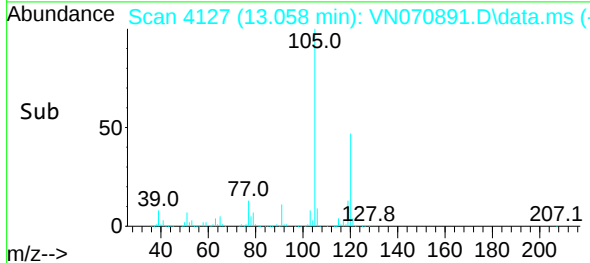
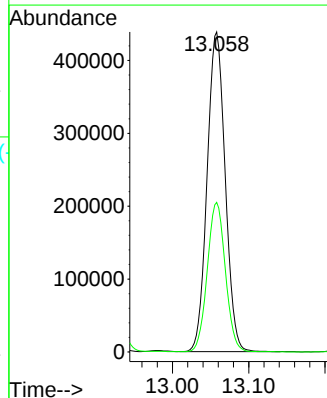
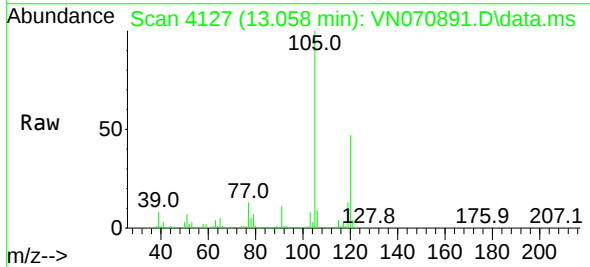
APPROVED

Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#80  
1,3,5-Trimethylbenzene  
Concen: 20.121 ug/l  
RT: 13.058 min Scan# 4127  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

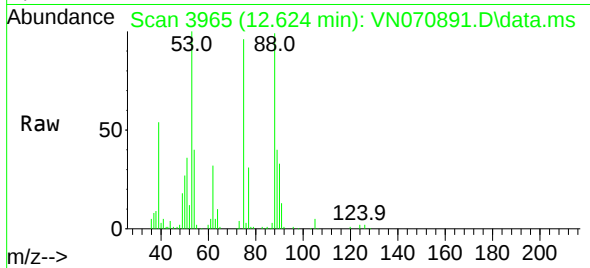
Tgt Ion:105 Resp: 720554  
Ion Ratio Lower Upper  
105 100  
120 46.6 24.6 73.6





#81  
trans-1,4-Dichloro-2-butene  
Concen: 20.583 ug/l  
RT: 12.624 min Scan# 3965  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

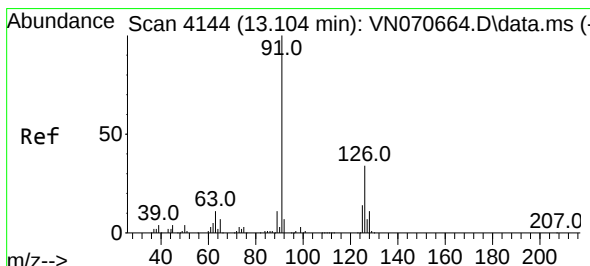
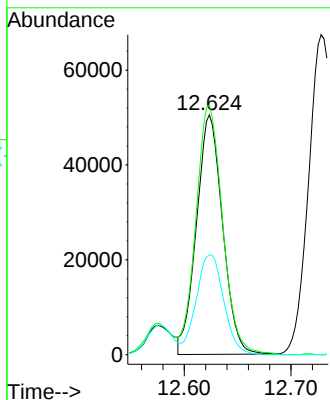
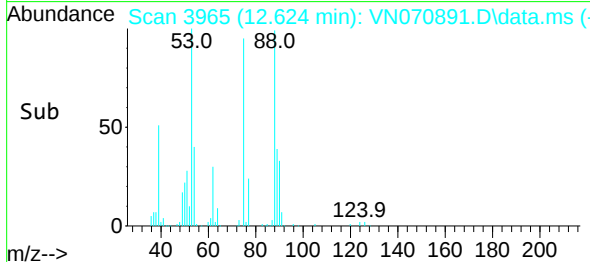
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020



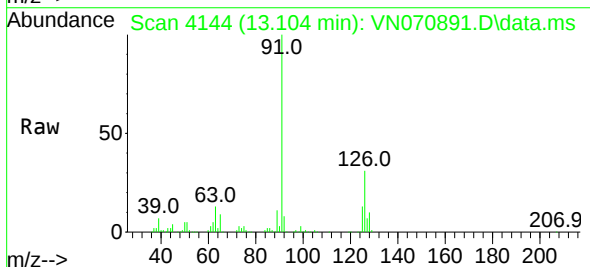
Tgt Ion: 75 Resp: 85779  
Ion Ratio Lower Upper  
75 100  
53 106.7 90.5 135.7  
89 43.9 38.2 57.4

Manual Integrations  
APPROVED

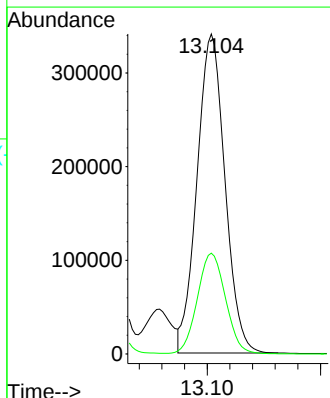
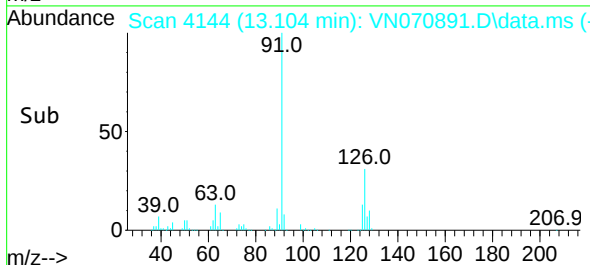
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

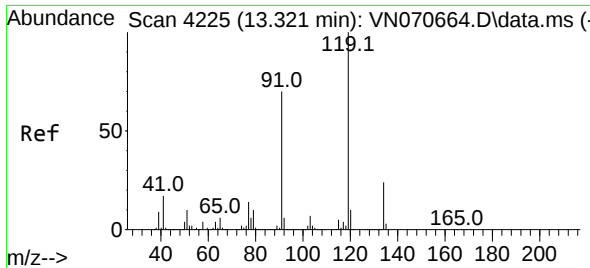


#82  
4-Chlorotoluene  
Concen: 19.886 ug/l  
RT: 13.104 min Scan# 4144  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



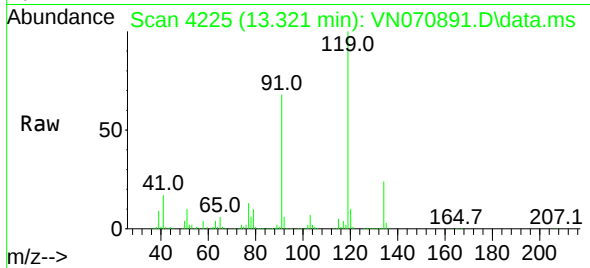
Tgt Ion: 91 Resp: 582079  
Ion Ratio Lower Upper  
91 100  
126 32.0 18.2 54.6





#83  
tert-Butylbenzene  
Concen: 19.901 ug/l  
RT: 13.321 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

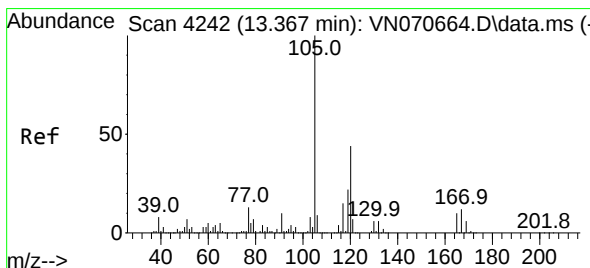
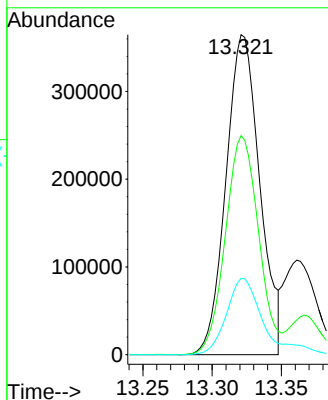
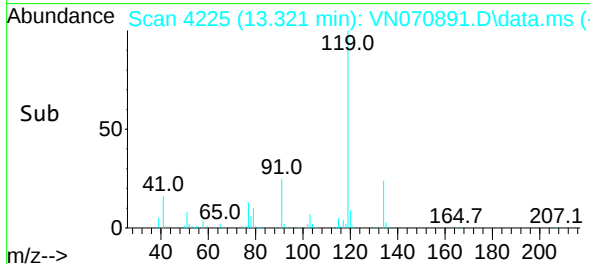
Instrument :  
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ClientSampleId :  
VSTDICC020



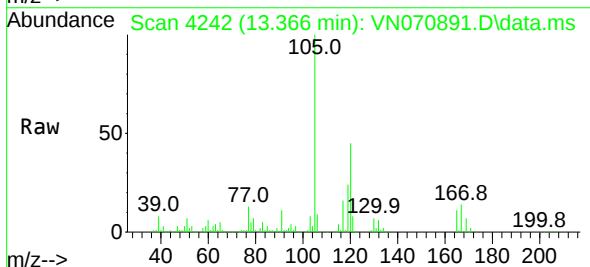
Tgt Ion:119 Resp: 62038  
Ion Ratio Lower Upper  
119 100  
91 67.3 31.5 94.5  
134 26.0 12.4 37.4

Manual Integrations  
APPROVED

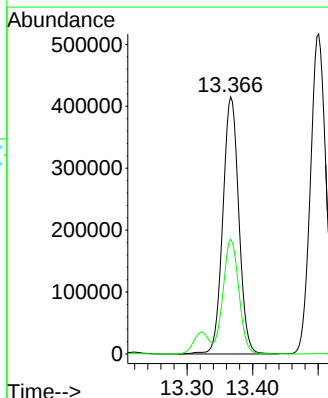
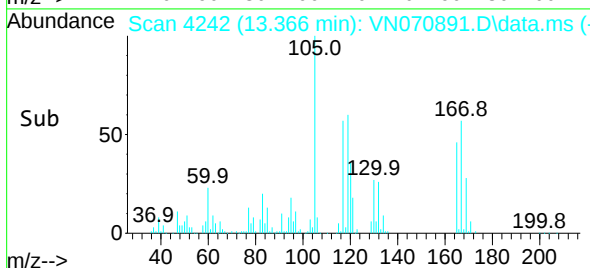
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

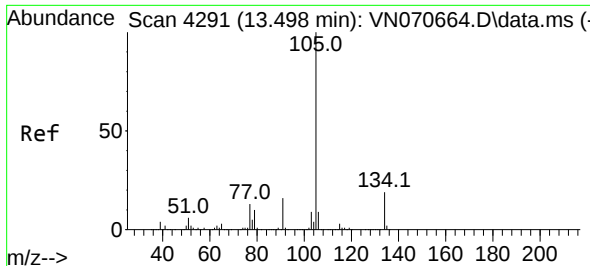


#84  
1,2,4-Trimethylbenzene  
Concen: 20.409 ug/l  
RT: 13.366 min Scan# 4242  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



Tgt Ion:105 Resp: 702514  
Ion Ratio Lower Upper  
105 100  
120 44.0 22.8 68.4





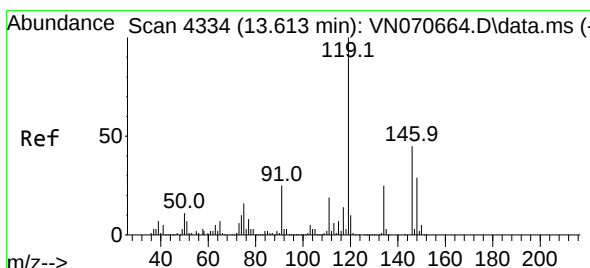
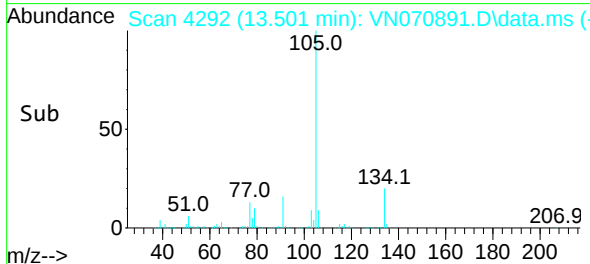
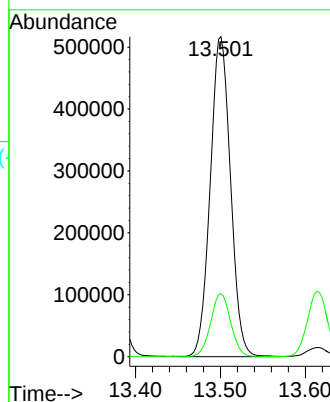
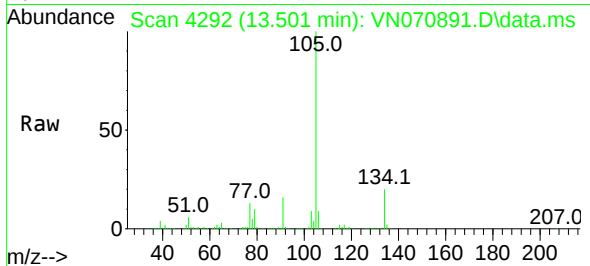
#85  
 sec-Butylbenzene  
 Concen: 20.243 ug/l  
 RT: 13.501 min Scan# 4291  
 Delta R.T. -0.000 min  
 Lab File: VN070891.D  
 Acq: 2 Feb 2022 13:46

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC020

Tgt Ion:105 Resp: 85786  
 Ion Ratio Lower Upper  
 105 100  
 134 19.5 10.4 31.1

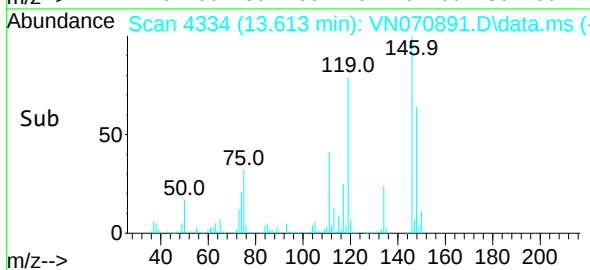
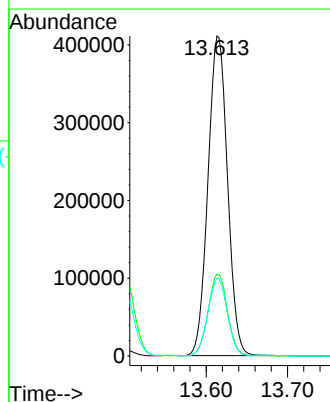
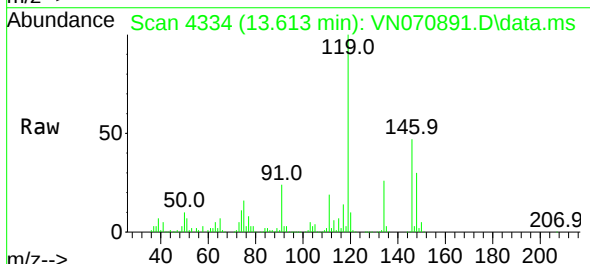
Manual Integrations  
 APPROVED

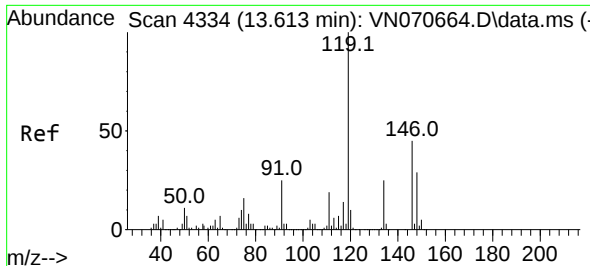
Reviewed By :John Carlone 02/03/2022  
 Supervised By :Mahesh Dadoda 02/04/2022



#86  
 p-Isopropyltoluene  
 Concen: 20.550 ug/l  
 RT: 13.613 min Scan# 4334  
 Delta R.T. -0.000 min  
 Lab File: VN070891.D  
 Acq: 2 Feb 2022 13:46

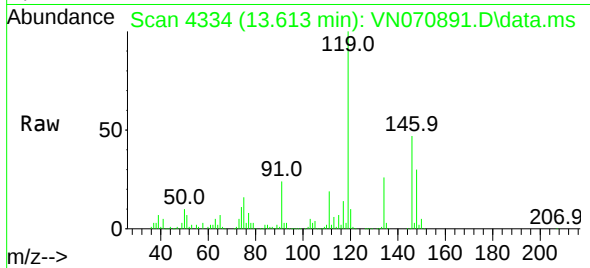
Tgt Ion:119 Resp: 684129  
 Ion Ratio Lower Upper  
 119 100  
 134 25.5 13.6 40.7  
 91 24.0 11.4 34.1





#87  
1,3-Dichlorobenzene  
Concen: 20.560 ug/l  
RT: 13.613 min Scan# 4334  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

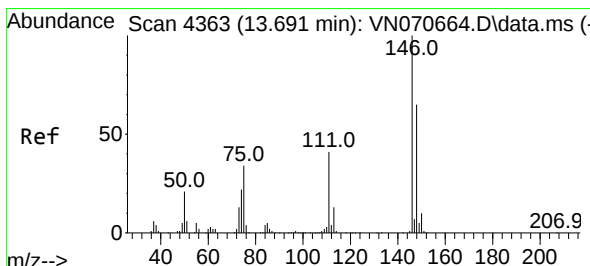
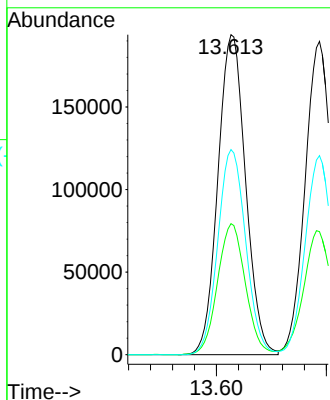
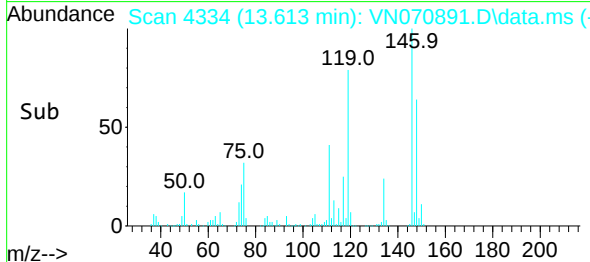
Instrument :  
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ClientSampleId :  
VSTDICC020



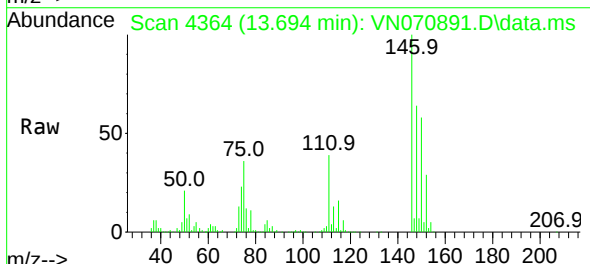
Tgt Ion:146 Resp: 339572  
Ion Ratio Lower Upper  
146 100  
111 41.1 18.6 55.6  
148 64.6 31.6 95.0

Manual Integrations  
APPROVED

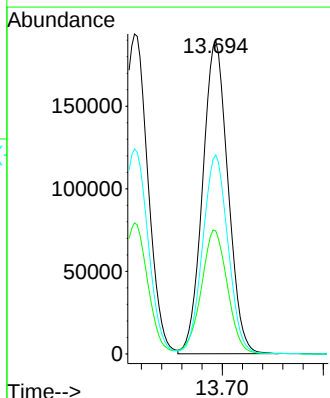
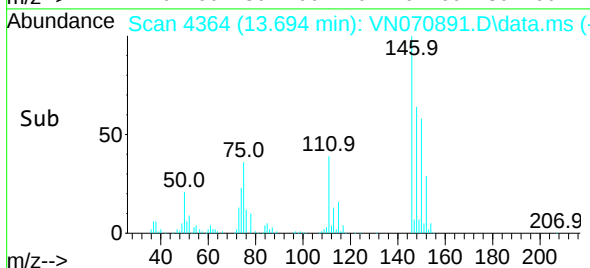
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

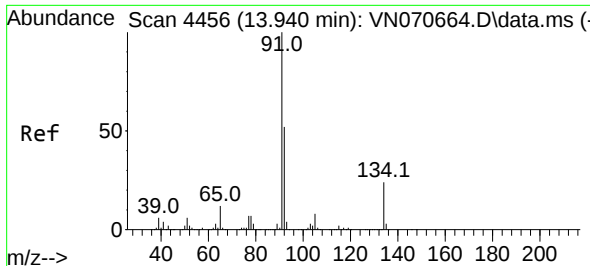


#88  
1,4-Dichlorobenzene  
Concen: 20.103 ug/l  
RT: 13.694 min Scan# 4364  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



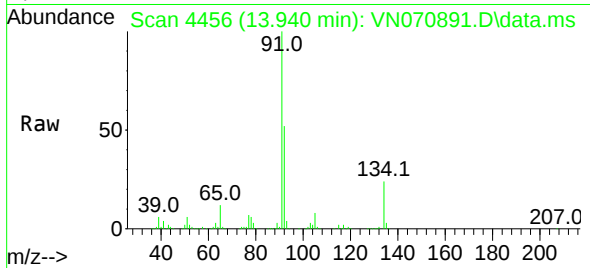
Tgt Ion:146 Resp: 330429  
Ion Ratio Lower Upper  
146 100  
111 40.5 18.3 54.8  
148 63.4 31.8 95.4





#89  
n-Butylbenzene  
Concen: 20.472 ug/l  
RT: 13.940 min Scan# 4456  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

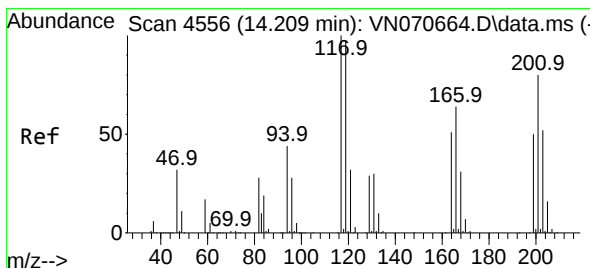
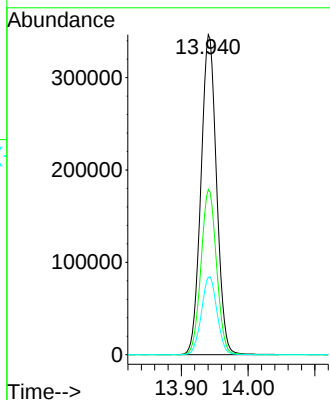
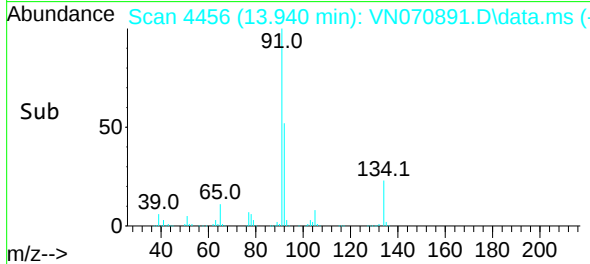
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



Tgt Ion: 91 Resp: 56224  
Ion Ratio Lower Upper  
91 100  
92 51.4 25.4 76.0  
134 24.4 13.6 40.8

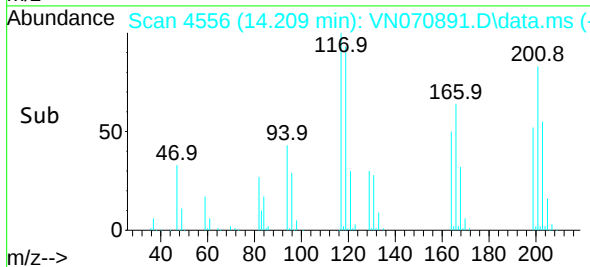
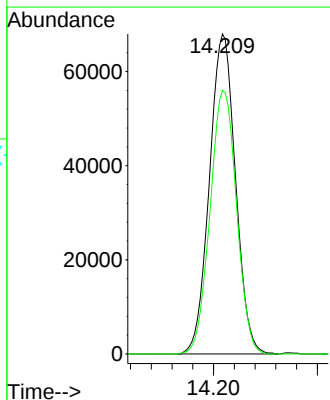
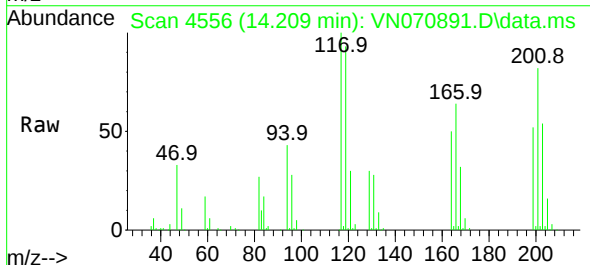
Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#90  
Hexachloroethane  
Concen: 20.339 ug/l  
RT: 14.209 min Scan# 4556  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

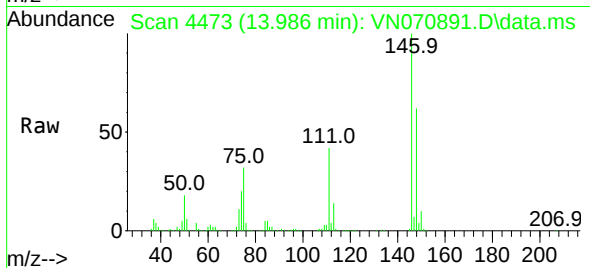
Tgt Ion:117 Resp: 118358  
Ion Ratio Lower Upper  
117 100  
201 83.7 43.9 131.6





#91  
1,2-Dichlorobenzene  
Concen: 20.162 ug/l  
RT: 13.986 min Scan# 4473  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

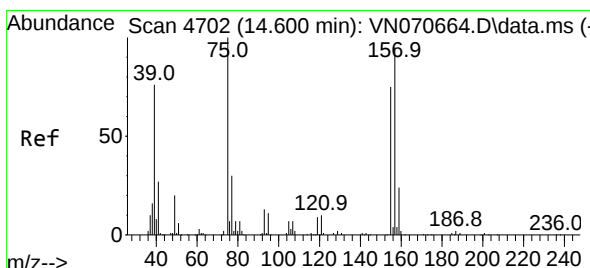
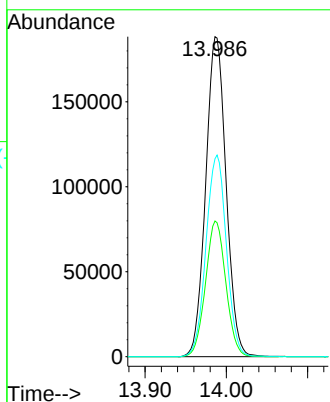
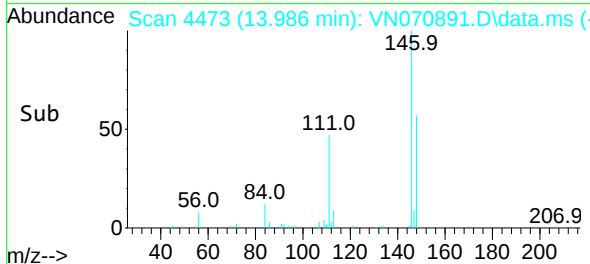
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020



Tgt Ion:146 Resp: 32900  
Ion Ratio Lower Upper  
146 100  
111 42.3 19.1 57.3  
148 63.2 32.1 96.3

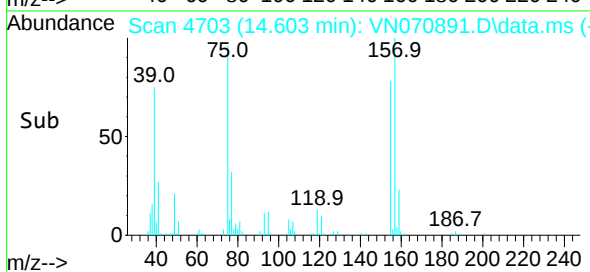
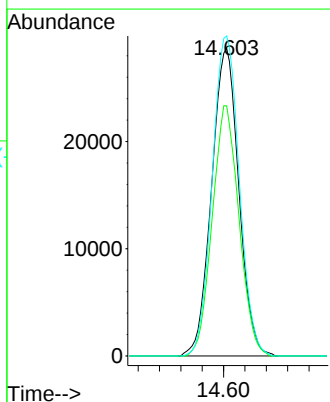
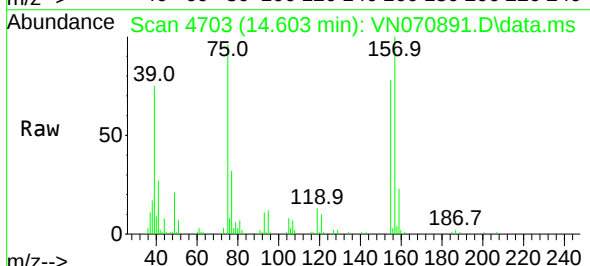
Manual Integrations  
APPROVED

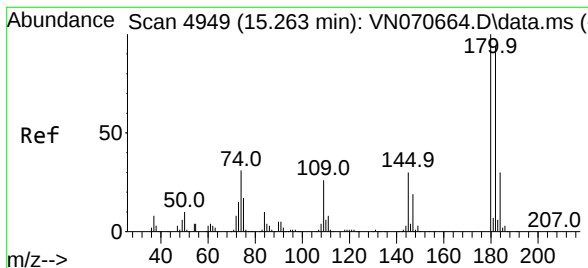
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 20.042 ug/l  
RT: 14.603 min Scan# 4703  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

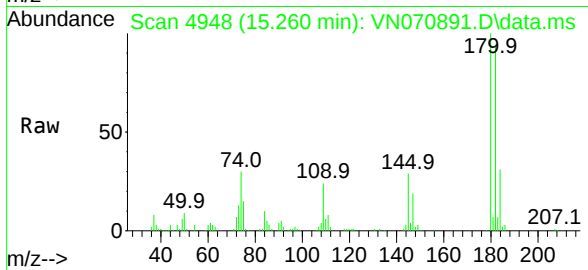
Tgt Ion: 75 Resp: 50844  
Ion Ratio Lower Upper  
75 100  
155 79.6 46.9 140.7  
157 103.1 60.6 181.7





#93  
1,2,4-Trichlorobenzene  
Concen: 22.277 ug/l  
RT: 15.260 min Scan# 4949  
Delta R.T. -0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

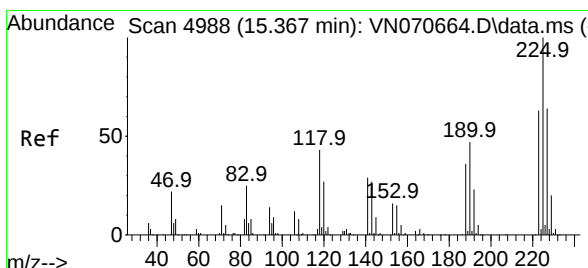
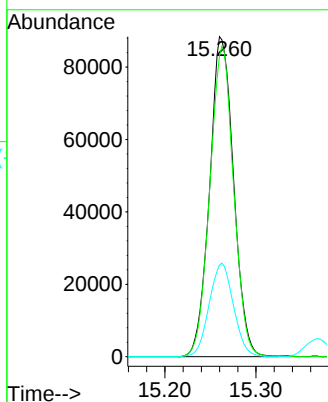
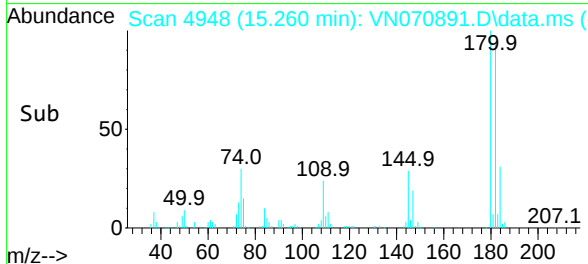
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDICC020



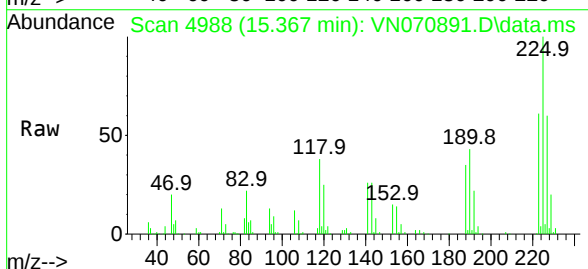
Tgt Ion:180 Resp: 161440  
Ion Ratio Lower Upper  
180 100  
182 96.2 48.3 144.9  
145 29.6 14.5 43.5

Manual Integrations  
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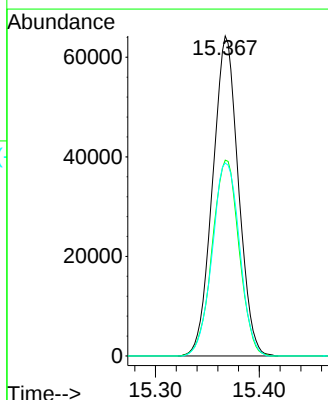
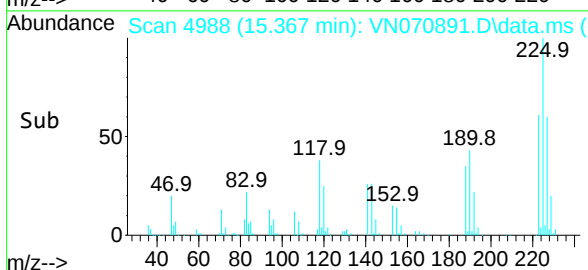
Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022

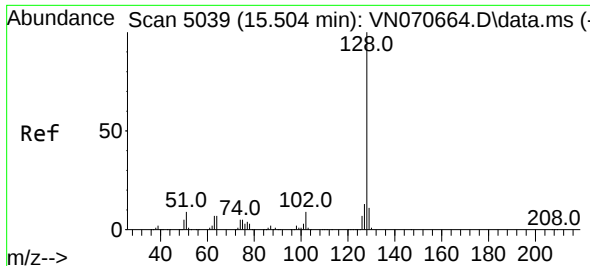


#94  
Hexachlorobutadiene  
Concen: 22.881 ug/l  
RT: 15.367 min Scan# 4988  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



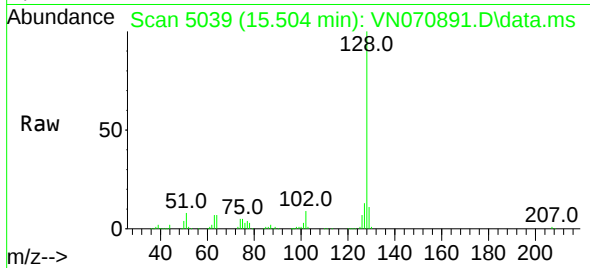
Tgt Ion:225 Resp: 110581  
Ion Ratio Lower Upper  
225 100  
223 64.1 31.9 95.7  
227 64.3 32.1 96.3





#95  
Naphthalene  
Concen: 21.340 ug/l  
RT: 15.504 min Scan# 5039  
Delta R.T. -0.000 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46

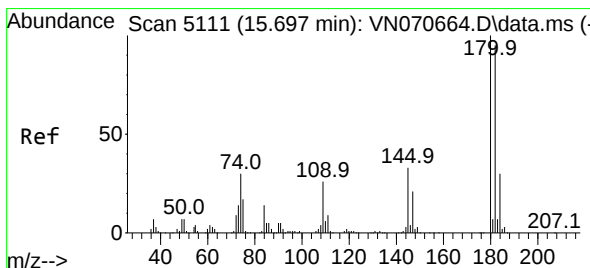
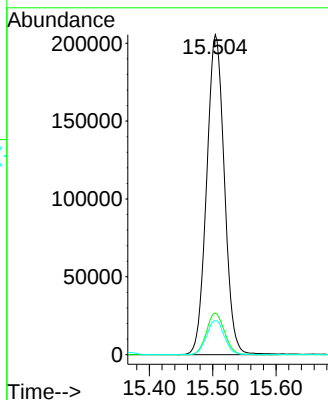
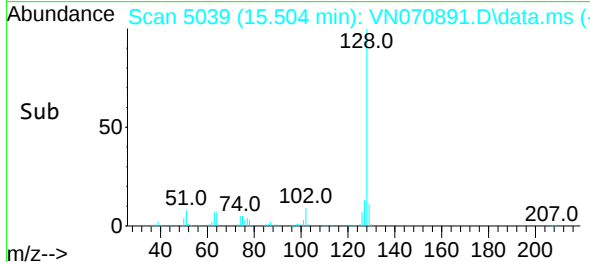
Instrument :  
MSVOA\_N  
ClientSampleId :  
VSTDIC020



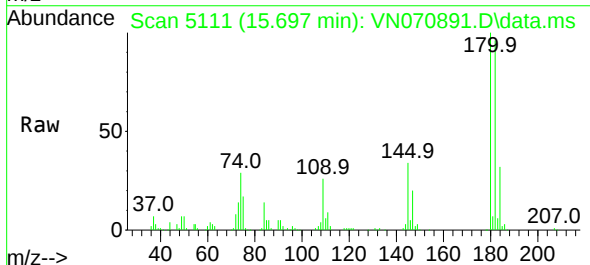
Tgt Ion:128 Resp: 399700  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.5 15.7  
129 10.8 8.7 13.1

Manual Integrations  
APPROVED

Reviewed By :John Carlone 02/03/2022  
Supervised By :Mahesh Dadoda 02/04/2022



#96  
1,2,3-Trichlorobenzene  
Concen: 22.249 ug/l  
RT: 15.697 min Scan# 5111  
Delta R.T. -0.003 min  
Lab File: VN070891.D  
Acq: 2 Feb 2022 13:46



Tgt Ion:180 Resp: 153700  
Ion Ratio Lower Upper  
180 100  
182 95.4 47.4 142.2  
145 33.1 15.0 45.1

