

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX030420\  
 Data File : VX015089.D  
 Acq On : 04 Mar 2020 15:57  
 Operator : JC/SP  
 Sample : L1161-07 0.2PPB LOD  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2020

Manual Integrations  
 APPROVED

MMDadoda  
 3/5/2020 3:54:01 PM

Quant Time: Mar 05 08:12:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 04 14:19:10 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 370986   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 578419   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 522956   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 248377   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 229970   | 52.25 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.50% |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 181672   | 49.79 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 99.58%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 698181   | 50.30 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.60% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 232553   | 46.97 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.94%  |      |

## Target Compounds

|                               |      |     |       |       | Qvalue |    |
|-------------------------------|------|-----|-------|-------|--------|----|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 1032  | 0.318 | ug/l   | 96 |
| 3) Chloromethane              | 1.32 | 50  | 1928  | 0.419 | ug/l # | 70 |
| 4) Vinyl Chloride             | 1.40 | 62  | 1729  | 0.371 | ug/l # | 86 |
| 5) Bromomethane               | 1.64 | 94  | 2495  | 0.870 | ug/l   | 98 |
| 7) Trichlorofluoromethane     | 1.93 | 101 | 2150  | 0.387 | ug/l   | 94 |
| 8) Diethyl Ether              | 2.18 | 74  | 587   | 0.233 | ug/l   | 72 |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 1623  | 0.465 | ug/l   | 93 |
| 10) Methyl Iodide             | 2.51 | 142 | 3139  | 0.795 | ug/l # | 90 |
| 11) Tert butyl alcohol        | 3.03 | 59  | 420m  | 0.550 | ug/l   |    |
| 12) 1,1-Dichloroethene        | 2.37 | 96  | 1007  | 0.279 | ug/l # | 81 |
| 13) Acrolein                  | 2.29 | 56  | 1365  | 1.902 | ug/l # | 77 |
| 14) Allyl chloride            | 2.72 | 41  | 1536  | 0.244 | ug/l # | 74 |
| 15) Acrylonitrile             | 3.14 | 53  | 2683  | 1.411 | ug/l   | 96 |
| 16) Acetone                   | 2.44 | 43  | 3443  | 1.932 | ug/l   | 92 |
| 17) Carbon Disulfide          | 2.56 | 76  | 6605  | 0.660 | ug/l   | 99 |
| 18) Methyl Acetate            | 2.77 | 43  | 1383  | 0.317 | ug/l # | 90 |
| 20) Methylene Chloride        | 2.86 | 84  | 1507  | 0.361 | ug/l # | 77 |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 2394  | 0.622 | ug/l   | 89 |
| 22) Diisopropyl ether         | 3.85 | 45  | 2551  | 0.204 | ug/l # | 59 |
| 23) Vinyl Acetate             | 3.82 | 43  | 8182  | 0.795 | ug/l # | 92 |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 1749  | 0.252 | ug/l # | 57 |
| 25) 2-Butanone                | 4.69 | 43  | 2386m | 0.914 | ug/l   |    |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 1279m | 0.232 | ug/l   |    |
| 27) cis-1,2-Dichloroethene    | 4.60 | 96  | 1291  | 0.299 | ug/l   | 81 |
| 28) Bromochloromethane        | 5.01 | 49  | 1185m | 0.374 | ug/l   |    |
| 29) Tetrahydrofuran           | 5.13 | 42  | 3028  | 1.800 | ug/l # | 57 |
| 30) Chloroform                | 5.20 | 83  | 1938m | 0.286 | ug/l   |    |
| 31) Cyclohexane               | 5.58 | 56  | 1734  | 0.280 | ug/l # | 72 |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 1360  | 0.242 | ug/l # | 42 |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 1708  | 0.319 | ug/l # | 77 |
| 38) Carbon Tetrachloride      | 5.79 | 117 | 1383m | 0.274 | ug/l   |    |
| 39) Methylcyclohexane         | 7.46 | 83  | 2222m | 0.356 | ug/l   |    |
| 42) 1,2-Dichloroethane        | 6.19 | 62  | 1514  | 0.278 | ug/l   | 89 |
| 44) Trichloroethene           | 7.21 | 130 | 1615  | 0.366 | ug/l   | 74 |

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 Data File : VX015089.D  
 Acq On : 04 Mar 2020 15:57  
 Operator : JC/SP  
 Sample : L1161-07 0.2PPB LOD  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2020

Manual Integrations  
 APPROVED

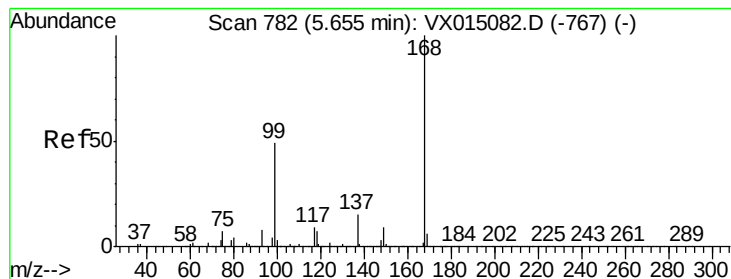
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 3/5/2020 3:54:01 PM

Quant Time: Mar 05 08:12:13 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 04 14:19:10 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 46) Dibromomethane             | 7.66  | 93   | 1216     | 0.454 | ug/l   | 87       |
| 47) Bromodichloromethane       | 7.89  | 83   | 1292     | 0.244 | ug/l # | 93       |
| 48) Methyl methacrylate        | 7.78  | 41   | 1622     | 0.365 | ug/l # | 42       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 3664     | 0.710 | ug/l # | 66       |
| 52) Toluene                    | 8.78  | 92   | 2562     | 0.264 | ug/l   | 99       |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 1682     | 0.299 | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 1651     | 0.259 | ug/l # | 79       |
| 55) 1,1,2-Trichloroethane      | 9.22  | 97   | 1308     | 0.328 | ug/l # | 62       |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 1798m    | 0.268 | ug/l   |          |
| 58) 2-Chloroethyl Vinyl ether  | 8.31  | 63   | 2931m    | 0.945 | ug/l   |          |
| 59) 2-Hexanone                 | 9.50  | 43   | 2861     | 0.748 | ug/l   | 68       |
| 60) Dibromochloromethane       | 9.57  | 129  | 964m     | 0.230 | ug/l   |          |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 1286     | 0.307 | ug/l   | 81       |
| 64) Tetrachloroethene          | 9.33  | 164  | 1730     | 0.400 | ug/l # | 69       |
| 65) Chlorobenzene              | 10.14 | 112  | 3122     | 0.297 | ug/l # | 83       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.22 | 131  | 1194     | 0.302 | ug/l # | 57       |
| 67) Ethyl Benzene              | 10.25 | 91   | 4165     | 0.234 | ug/l   | 89       |
| 68) m/p-Xylenes                | 10.36 | 106  | 3421     | 0.504 | ug/l   | 97       |
| 70) Styrene                    | 10.71 | 104  | 2994     | 0.269 | ug/l   | 94       |
| 71) Bromoform                  | 10.86 | 173  | 718      | 0.234 | ug/l # | 28       |
| 73) Isopropylbenzene           | 11.01 | 105  | 4159     | 0.262 | ug/l   | 86       |
| 74) N-amyl acetate             | 10.90 | 43   | 1887     | 0.282 | ug/l # | 78       |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 1865     | 0.353 | ug/l # | 75       |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 1060m    | 0.214 | ug/l   |          |
| 77) Bromobenzene               | 11.25 | 156  | 1716     | 0.388 | ug/l   | 82       |
| 78) n-propylbenzene            | 11.35 | 91   | 5037     | 0.278 | ug/l   | 78       |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 3113     | 0.288 | ug/l   | 73       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 3563     | 0.270 | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-buten | 11.06 | 75   | 444m     | 0.254 | ug/l   |          |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 4300     | 0.336 | ug/l   | 85       |
| 83) tert-Butylbenzene          | 11.77 | 119  | 3217     | 0.252 | ug/l   | 88       |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 3940     | 0.297 | ug/l   | 97       |
| 85) sec-Butylbenzene           | 11.94 | 105  | 4372     | 0.284 | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 4627     | 0.326 | ug/l # | 66       |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 3599     | 0.463 | ug/l   | 90       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 4265m    | 0.531 | ug/l   |          |
| 89) n-Butylbenzene             | 12.39 | 91   | 5161     | 0.409 | ug/l   | 94       |
| 90) Hexachloroethane           | 12.59 | 117  | 563      | 0.210 | ug/l   | 61       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 2574     | 0.333 | ug/l   | 80       |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 596m     | 0.563 | ug/l   |          |
| 93) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 3655     | 0.681 | ug/l   | 95       |
| 94) Hexachlorobutadiene        | 13.78 | 225  | 1639     | 0.595 | ug/l   | 94       |
| 95) Naphthalene                | 13.83 | 128  | 6902     | 0.471 | ug/l # | 83       |
| 96) 1,2,3-Trichlorobenzene     | 14.02 | 180  | 3314     | 0.619 | ug/l   | 92       |

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





#1

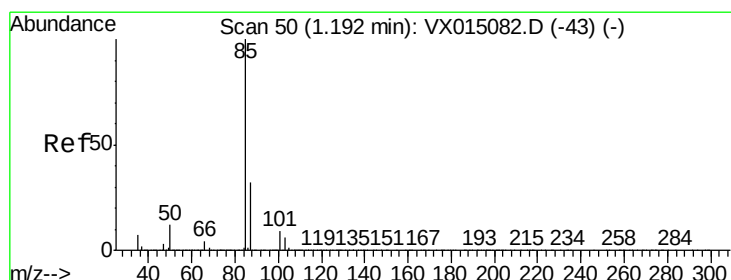
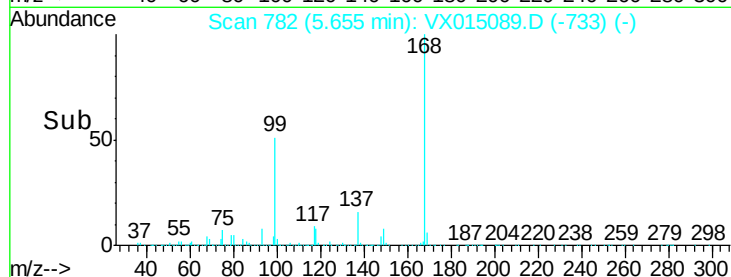
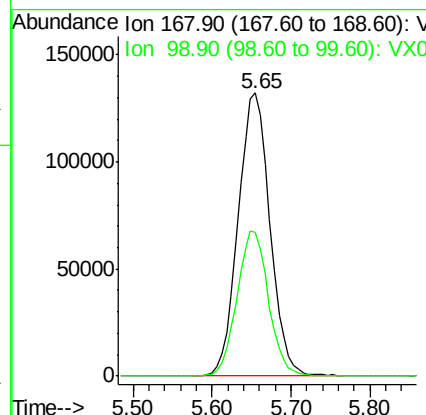
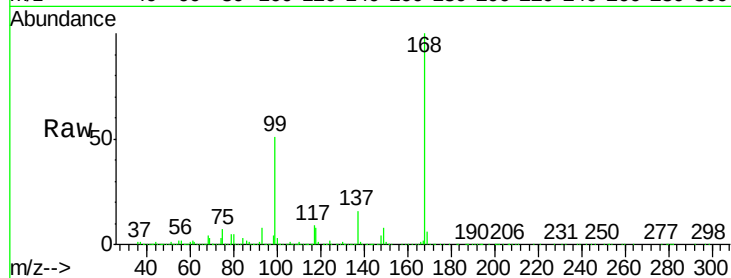
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.65 min Scan# 782  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 99      | 51.0  | 39.4  | 59.2  |

Manual Integrations  
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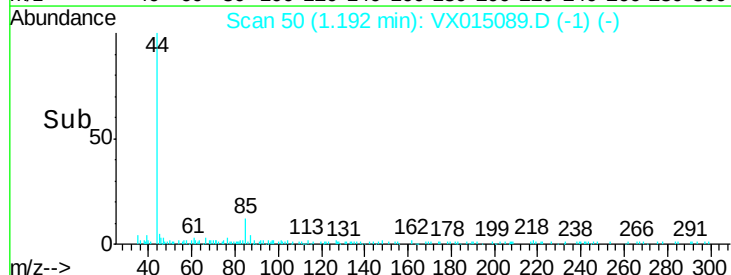
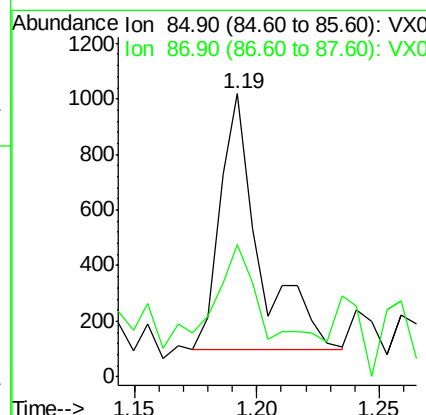
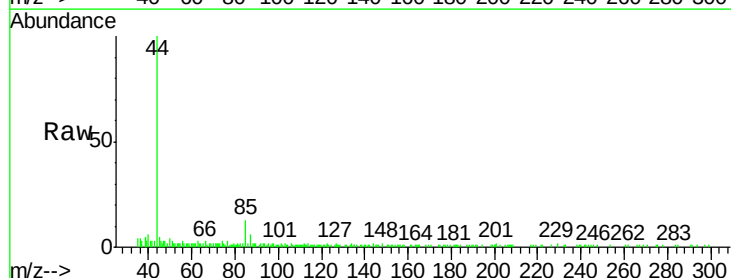
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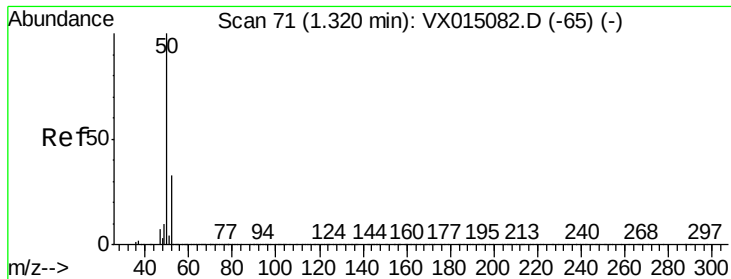


#2

Dichlorodifluoromethane  
Concen: 0.318 ug/l  
RT: 1.19 min Scan# 50  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 34.6  | 16.2  | 48.5  |





#3

Chloromethane

Concen: 0.419 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 50 Resp: 1928

Ion Ratio Lower Upper

50 100

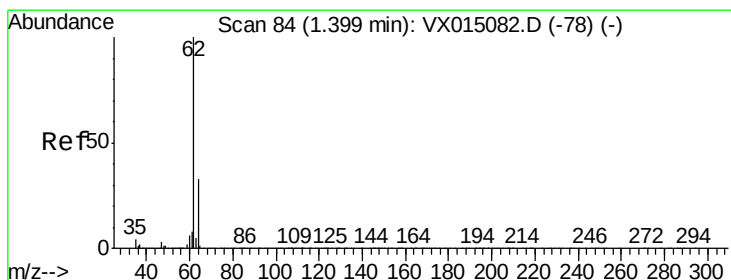
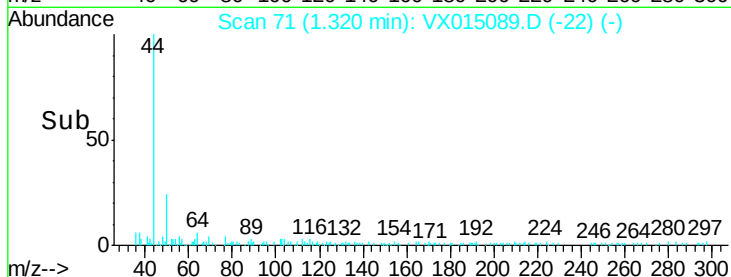
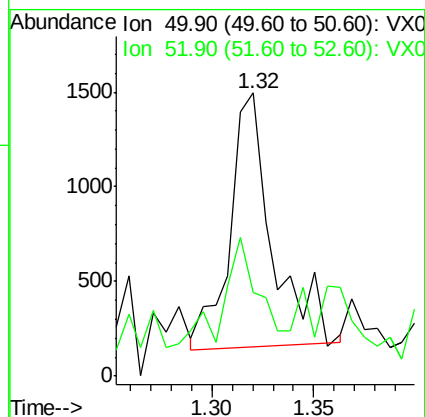
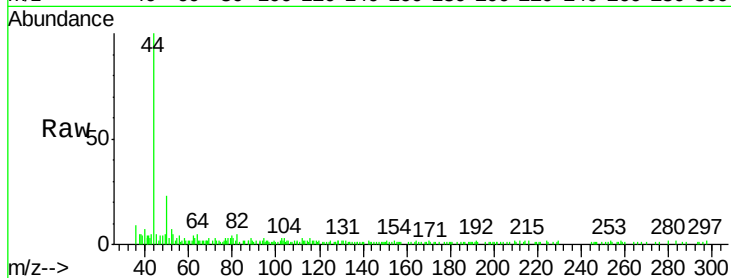
52 15.8 26.2 39.2#

Manual Integrations

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#4

Vinyl Chloride

Concen: 0.371 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX015089.D

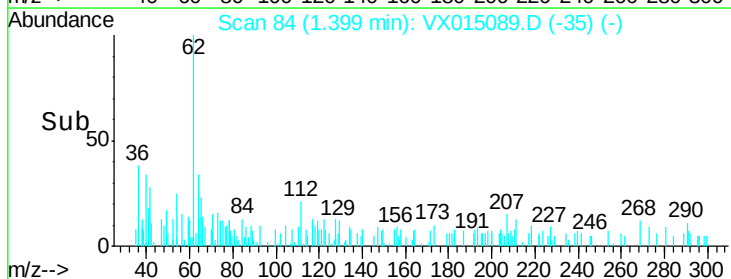
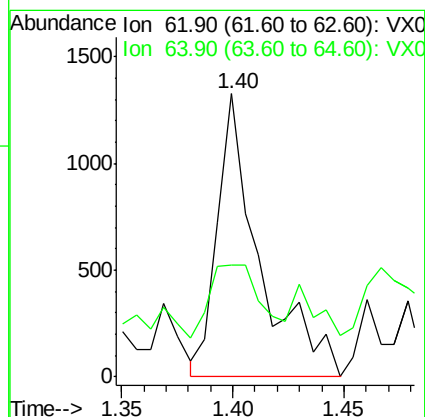
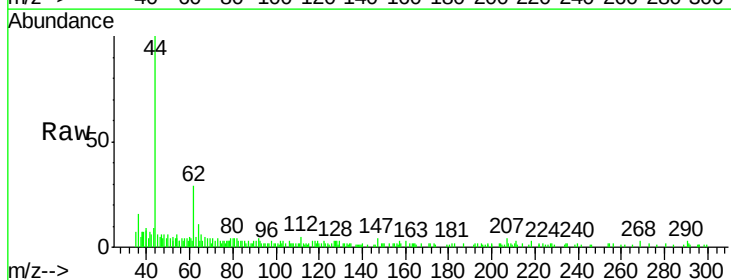
Acq: 04 Mar 2020 15:57

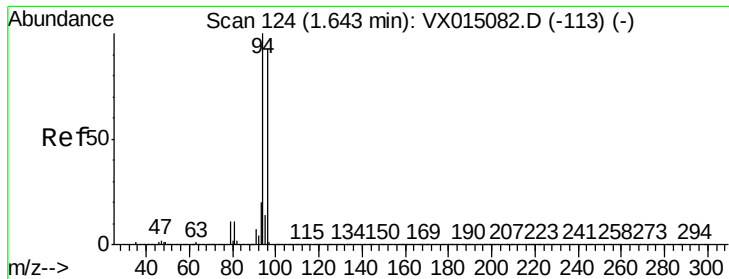
Tgt Ion: 62 Resp: 1729

Ion Ratio Lower Upper

62 100

64 25.0 26.1 39.1#





#5

Bromomethane

Concen: 0.870 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 94 Resp: 2495

Ion Ratio Lower Upper

94 100

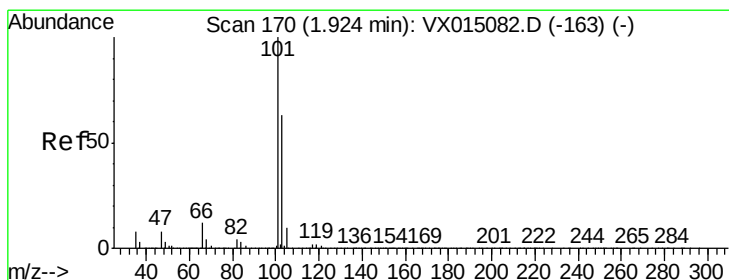
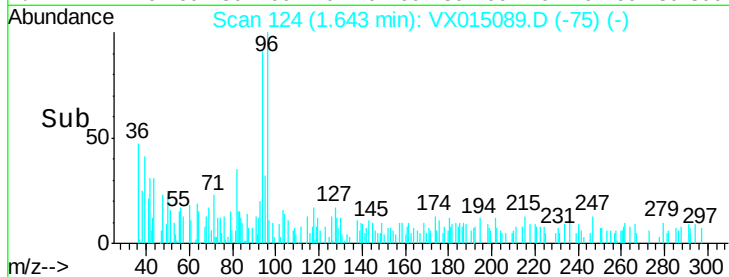
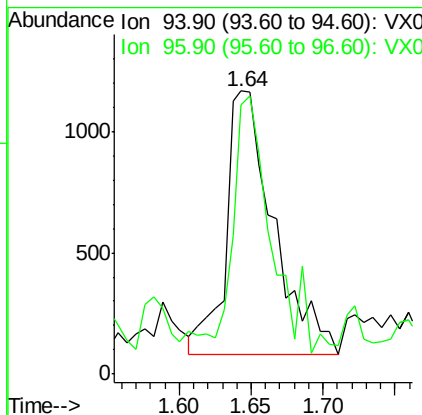
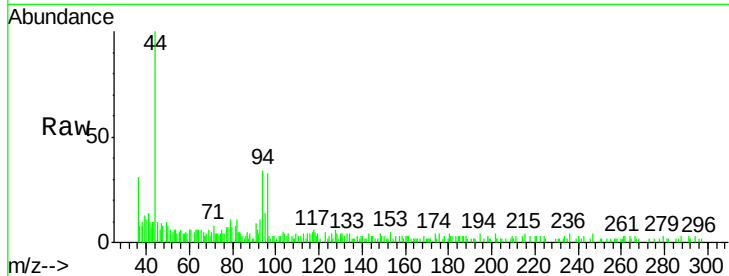
96 91.7 74.6 111.8

Manual Integrations

APPROVED

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3/5/2020 3:54:01 PM



#7

Trichlorofluoromethane

Concen: 0.387 ug/l

RT: 1.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VX015089.D

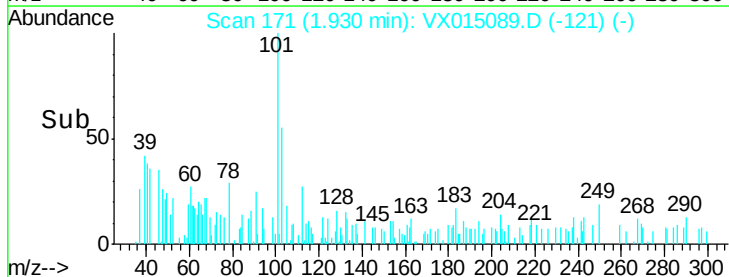
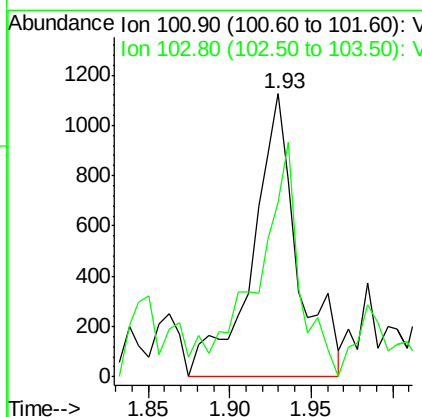
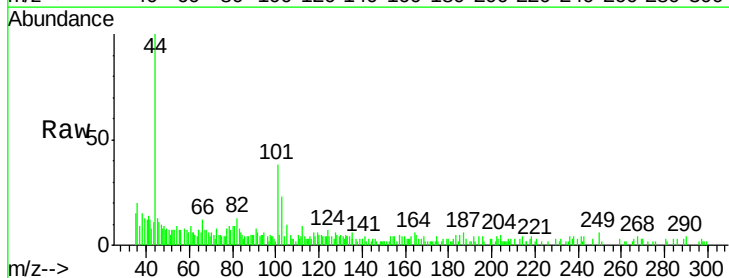
Acq: 04 Mar 2020 15:57

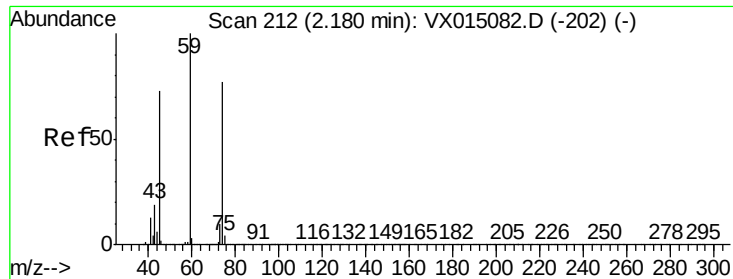
Tgt Ion: 101 Resp: 2150

Ion Ratio Lower Upper

101 100

103 68.0 50.4 75.6





#8

Diethyl Ether

Concen: 0.233 ug/l

RT: 2.18 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 74 Resp: 587

Ion Ratio Lower Upper

74 100

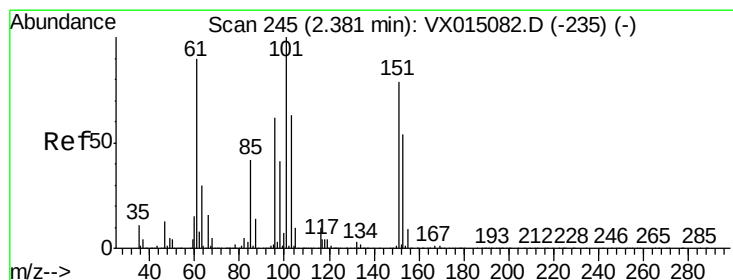
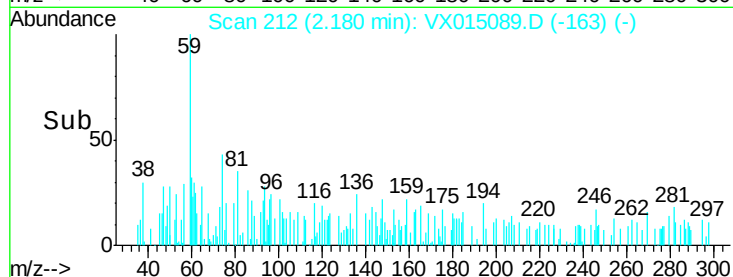
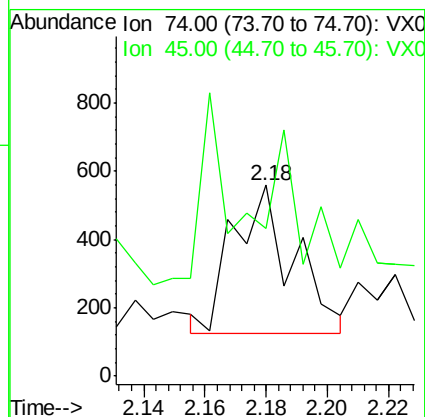
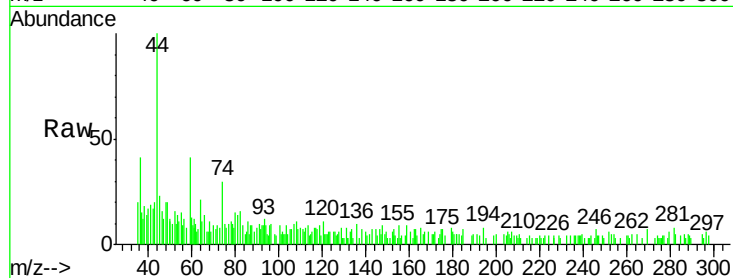
45 70.2 49.2 147.6

Manual Integrations

APPROVED

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3/5/2020 3:54:01 PM



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.465 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

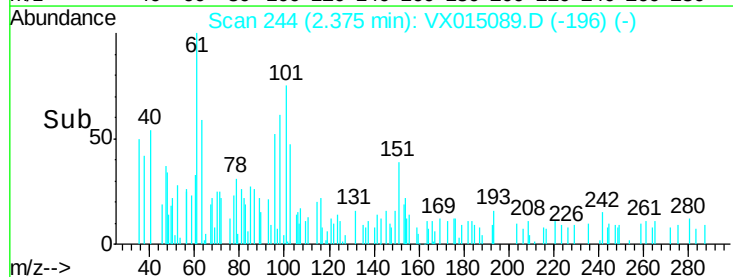
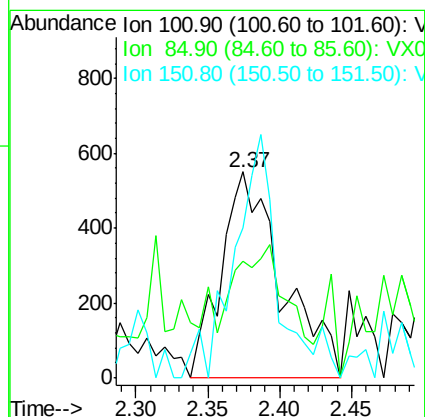
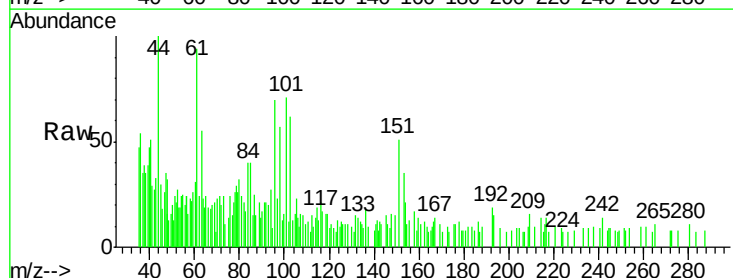
Tgt Ion: 101 Resp: 1623

Ion Ratio Lower Upper

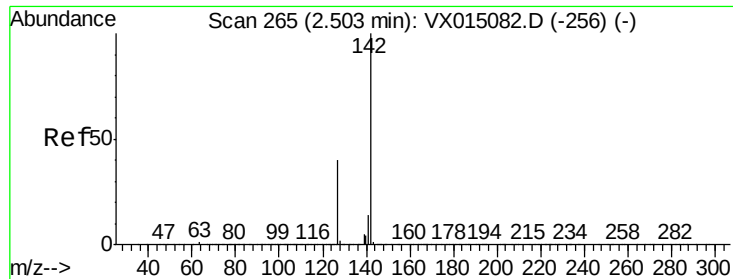
101 100

85 36.5 33.7 50.5

151 84.9 64.0 96.0







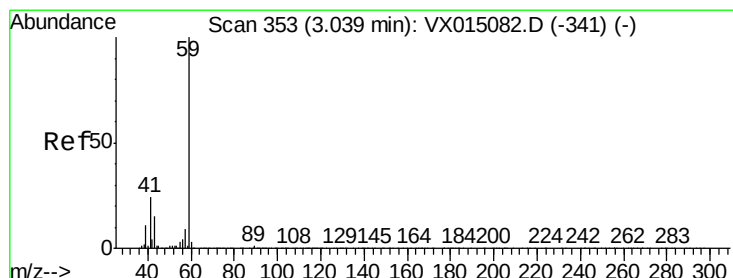
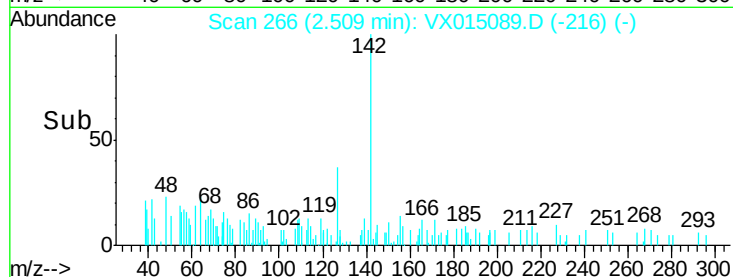
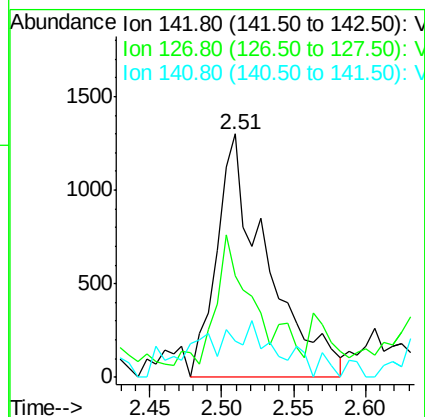
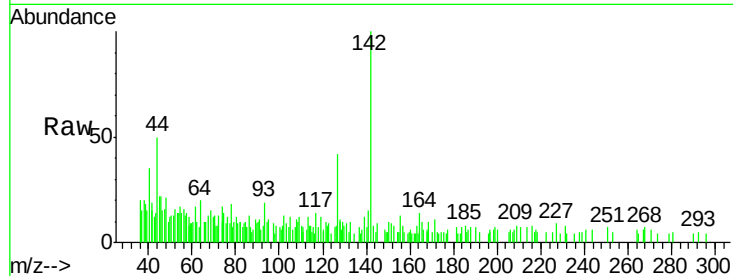
#10  
Methvl Iodide  
Concen: 0.795 ug/l  
RT: 2.51 min Scan# 266  
Delta R.T. 0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 127     | 37.2  | 31.7  | 47.5  |
| 141     | 3.4   | 11.3  | 16.9# |

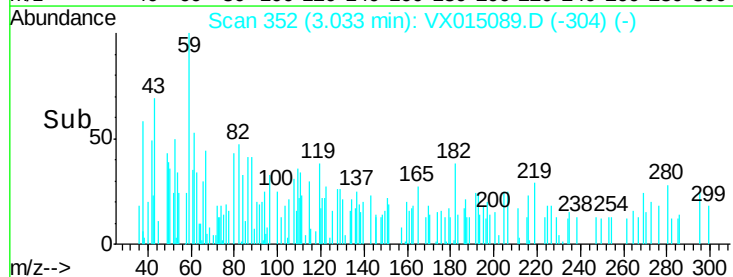
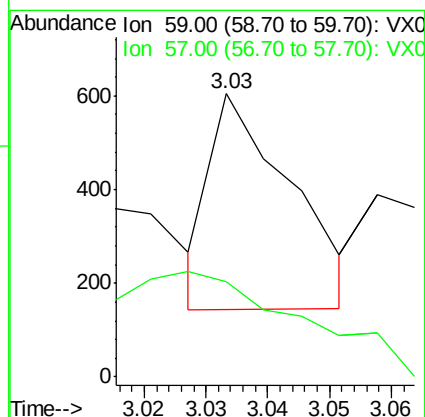
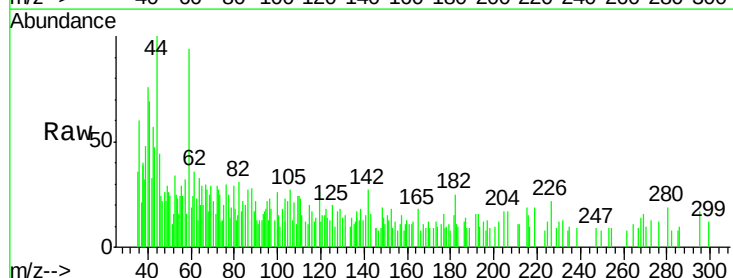
Manual Integrations  
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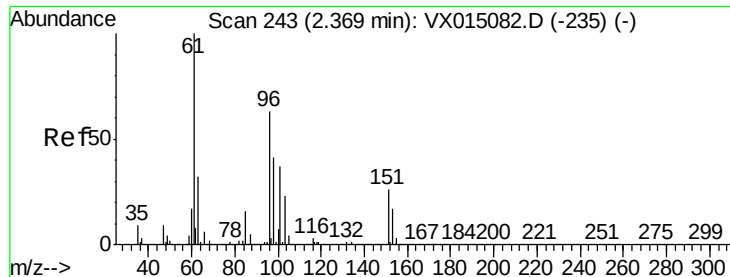


#11  
Tert butyl alcohol  
Concen: 0.550 ug/l m  
RT: 3.03 min Scan# 352  
Delta R.T. -0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 40.7  | 8.2   | 12.4# |







#12

1,1-Dichloroethene

Concen: 0.279 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

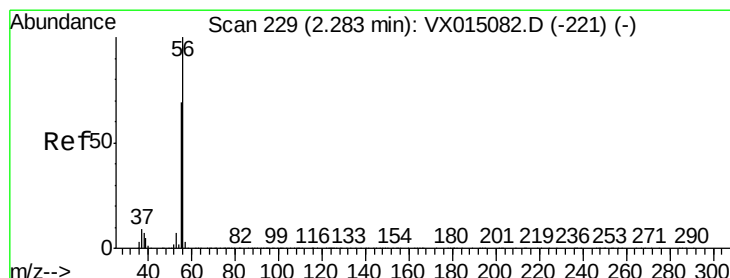
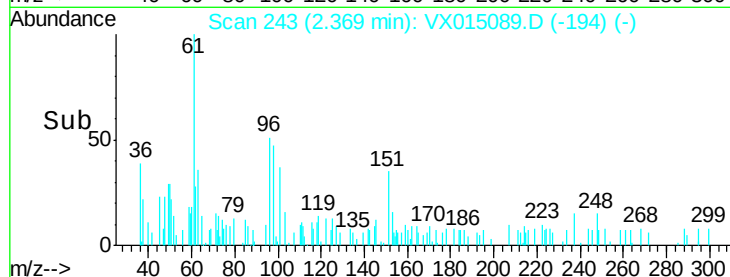
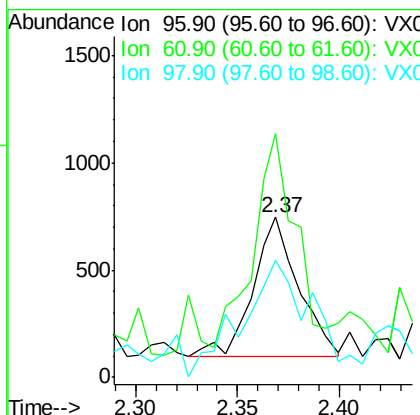
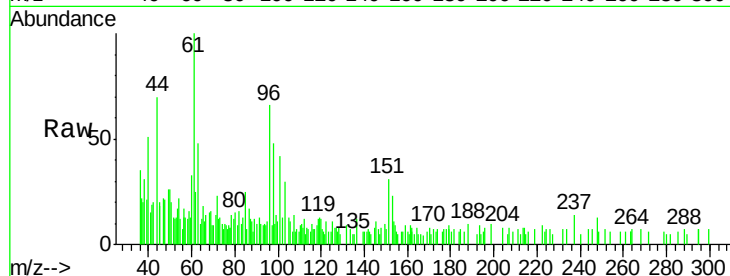
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 1007  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 136.0 | 126.2 | 189.4 |
| 98       | 83.6  | 51.4  | 77.0# |

Manual Integrations  
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MMDadoda  
3/5/2020 3:54:01 PM



#13

Acrolein

Concen: 1.902 ug/l

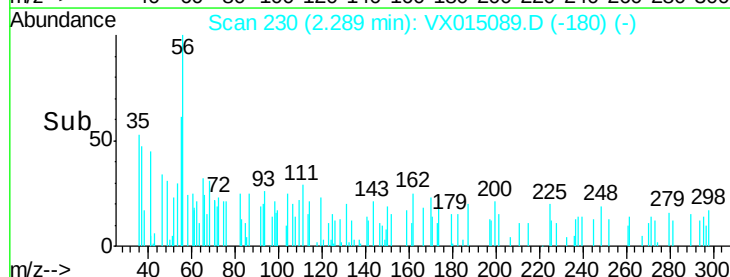
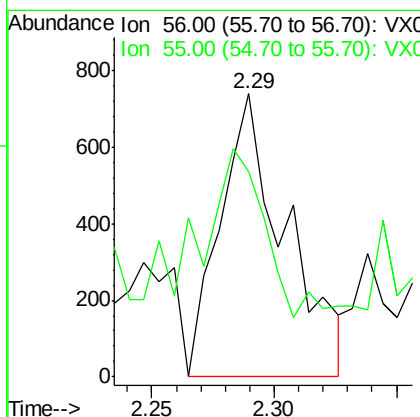
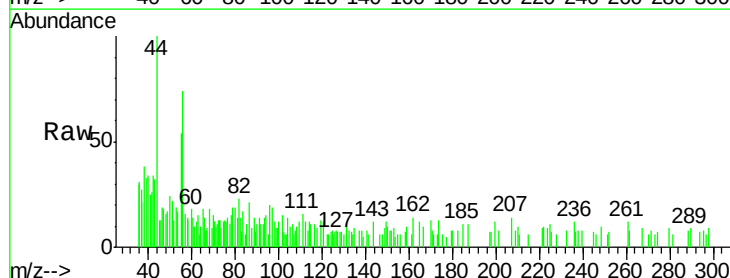
RT: 2.29 min Scan# 230

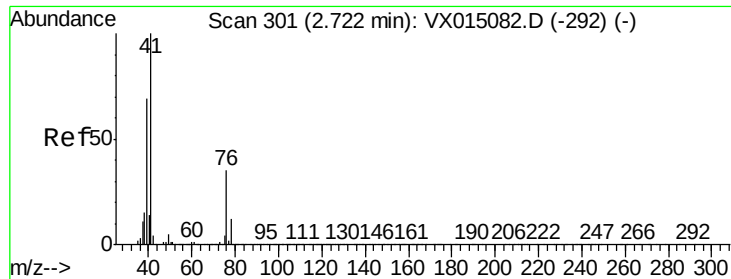
Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 1365  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 55       | 50.3  | 55.4  | 83.0# |





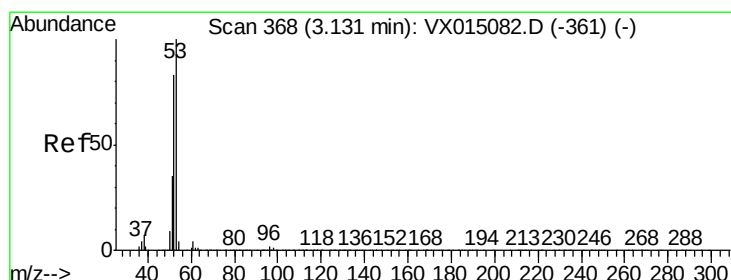
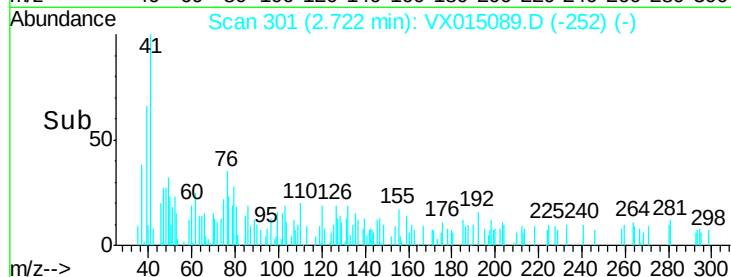
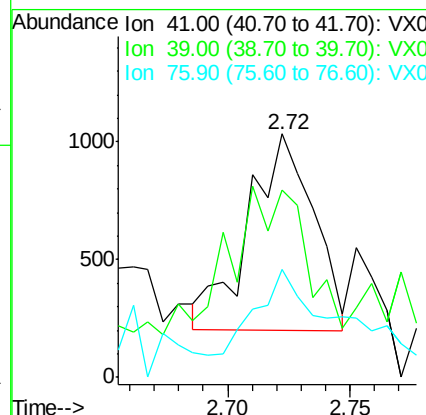
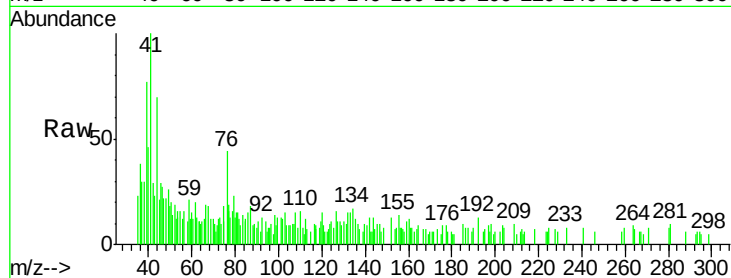
#14  
Allvl chloride  
Concen: 0.244 ug/l  
RT: 2.72 min Scan# 301  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 86.1  | 52.9  | 79.3# |
| 76      | 49.9  | 26.8  | 40.2# |

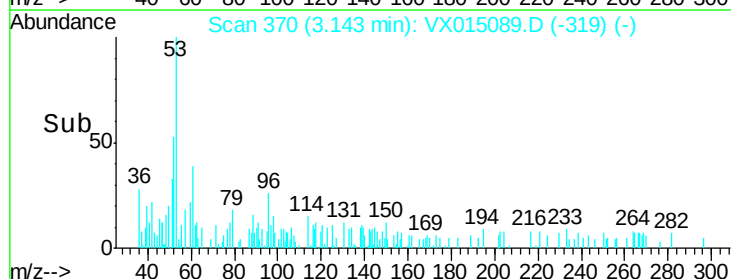
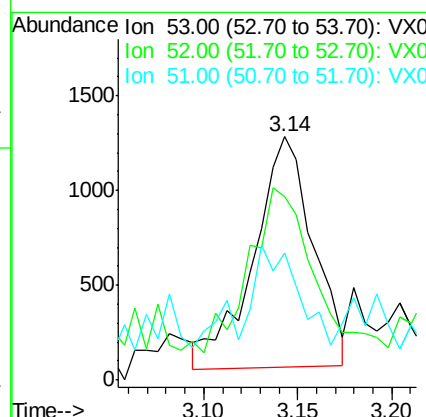
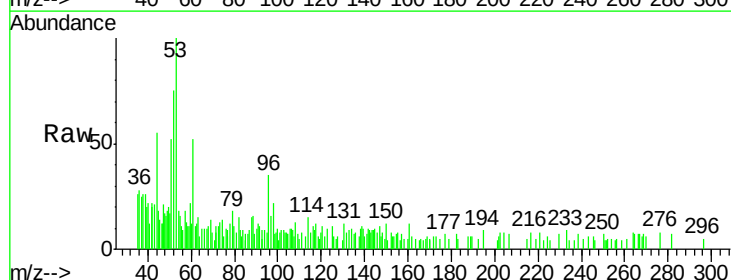
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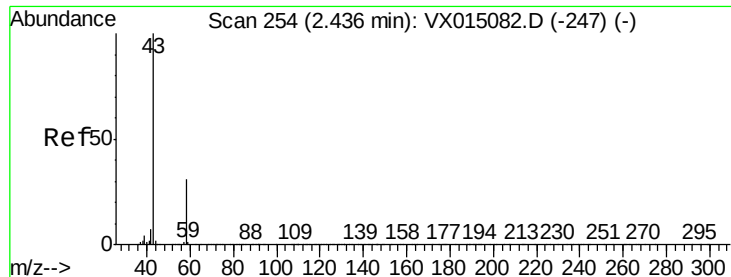
MMDadoda  
3/5/2020 3:54:01 PM



#15  
Acrylonitrile  
Concen: 1.411 ug/l  
RT: 3.14 min Scan# 370  
Delta R.T. 0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 53      | 100   |       |       |
| 52      | 86.6  | 66.6  | 100.0 |
| 51      | 38.5  | 29.0  | 43.6  |





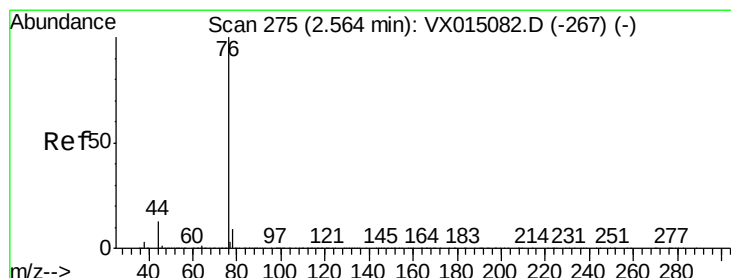
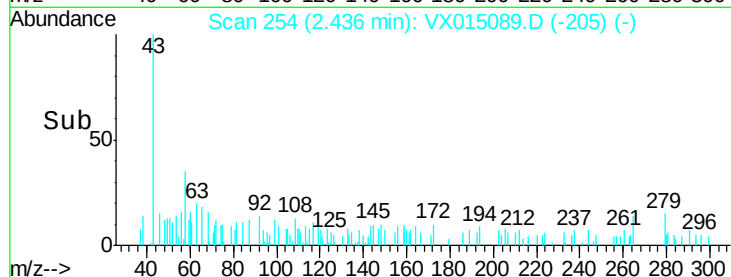
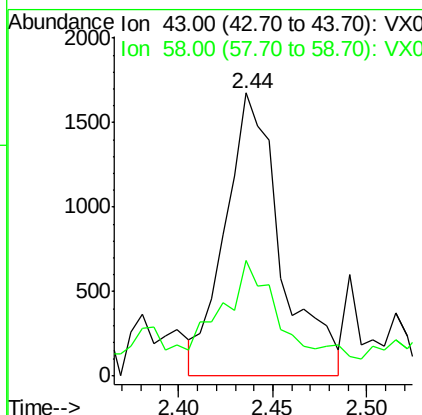
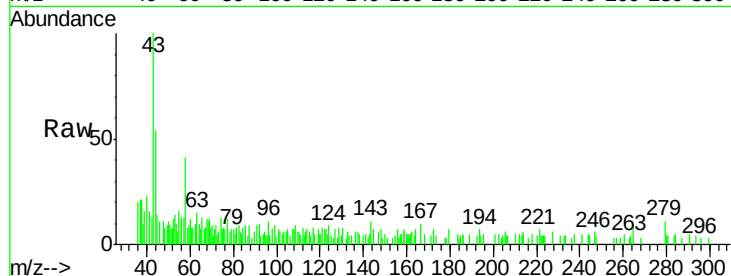
#16  
Acetone  
Concen: 1.932 ug/l  
RT: 2.44 min Scan# 254  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 35.2  | 24.8  | 37.2  |

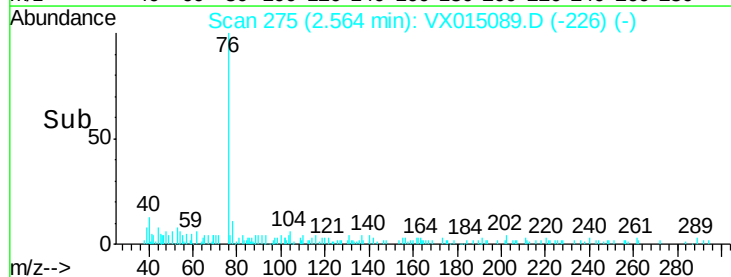
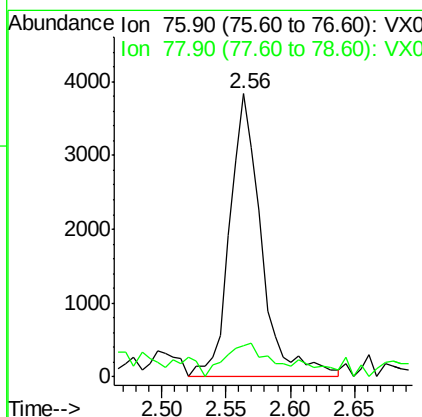
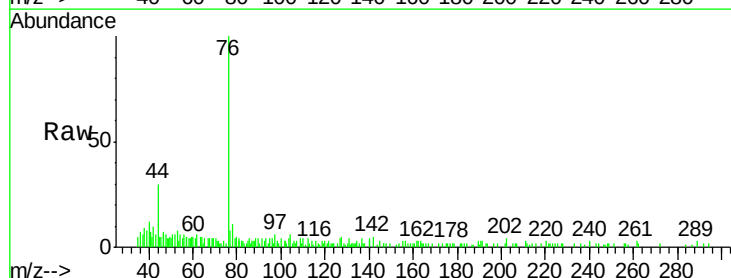
Manual Integrations  
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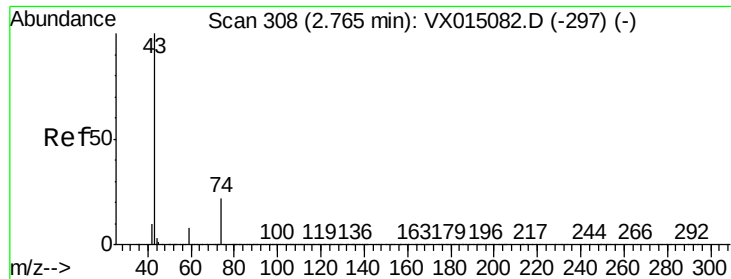
MMDadoda  
3/5/2020 3:54:01 PM



#17  
Carbon Disulfide  
Concen: 0.660 ug/l  
RT: 2.56 min Scan# 275  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 8.6   | 7.3   | 10.9  |





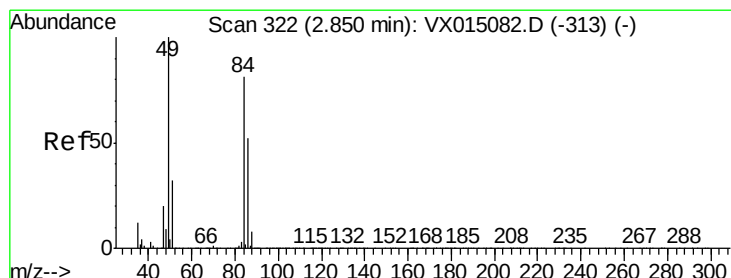
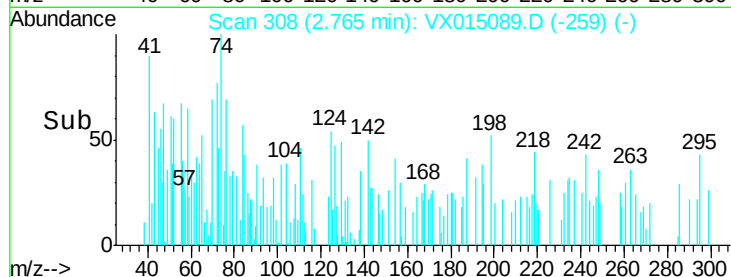
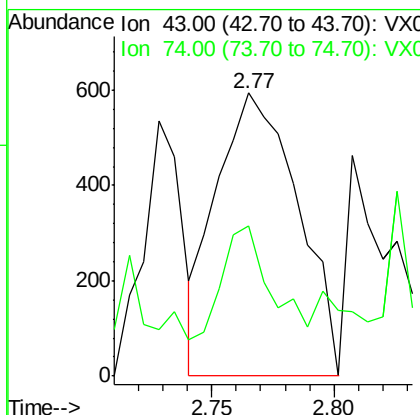
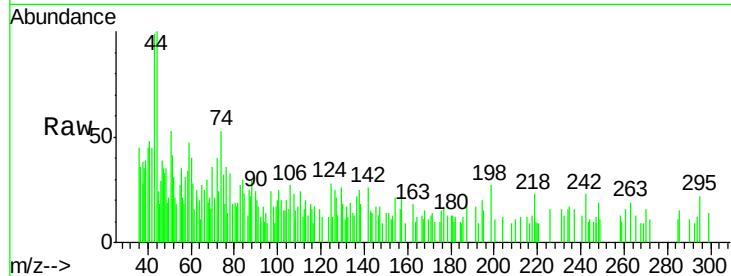
#18  
Methyl Acetate  
Concen: 0.317 ug/l  
RT: 2.77 min Scan# 308  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

Tot Ion: 43 Resp: 1383  
Ion Ratio Lower Upper  
43 100  
74 28.6 18.8 28.2#

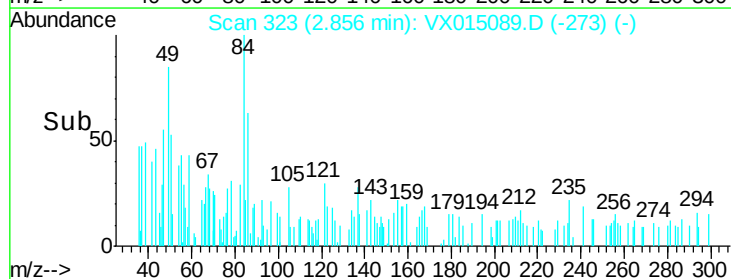
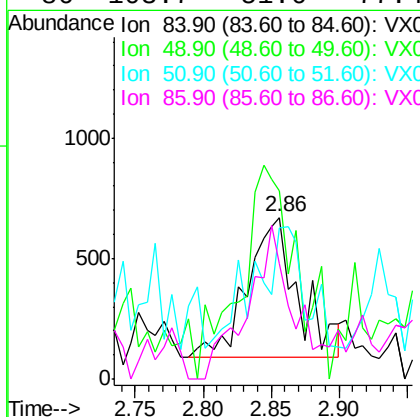
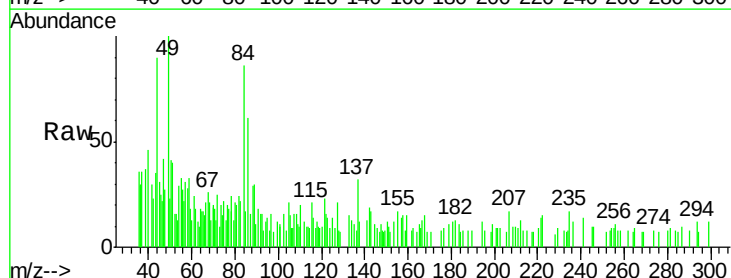
Manual Integrations  
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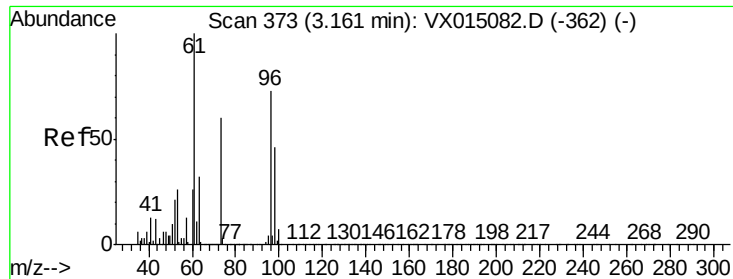
MMDadoda  
3/5/2020 3:54:01 PM



#20  
Methylene Chloride  
Concen: 0.361 ug/l  
RT: 2.86 min Scan# 323  
Delta R.T. 0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Tgt Ion: 84 Resp: 1507  
Ion Ratio Lower Upper  
84 100  
49 124.9 99.4 149.2  
51 70.7 31.5 47.3#  
86 103.7 51.6 77.4#





#21

trans-1,2-Dichloroethene

Concen: 0.622 ug/l

RT: 3.16 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

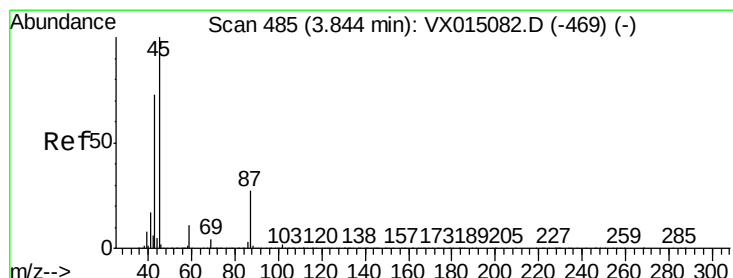
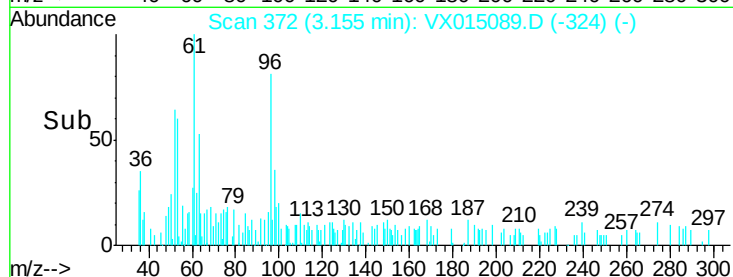
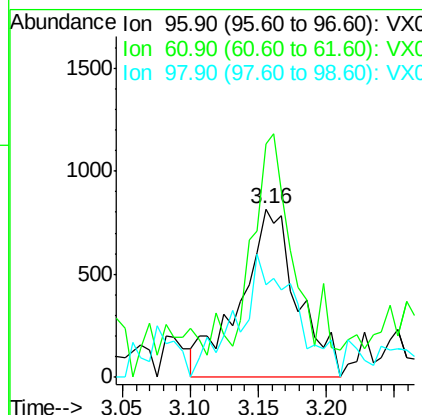
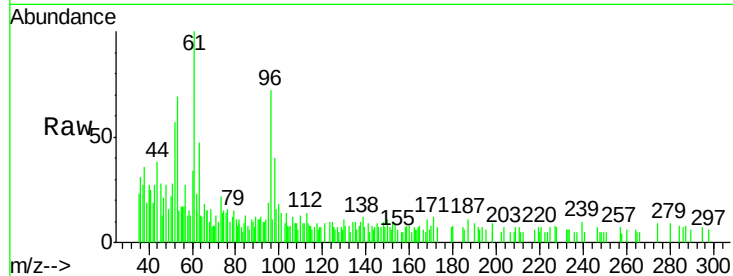
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 2394  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 122.5 | 109.9 | 164.9 |
| 98       | 55.4  | 50.2  | 75.2  |

Manual Integrations  
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3/5/2020 3:54:01 PM



#22

Diisopropyl ether

Concen: 0.204 ug/l

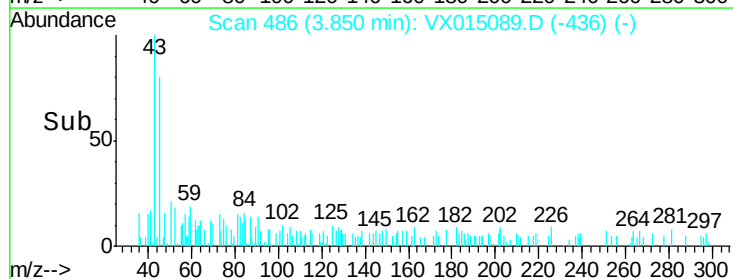
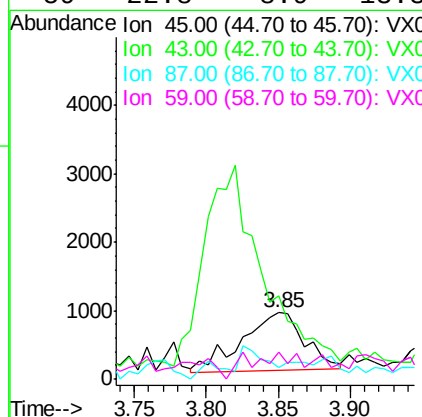
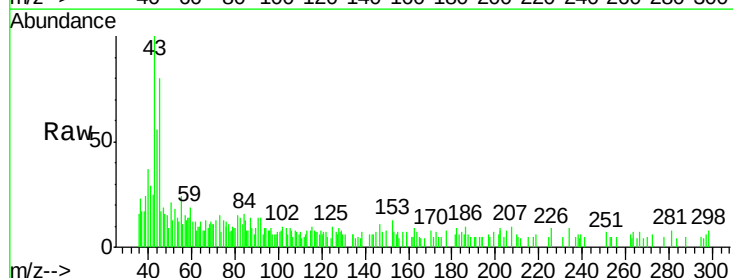
RT: 3.85 min Scan# 486

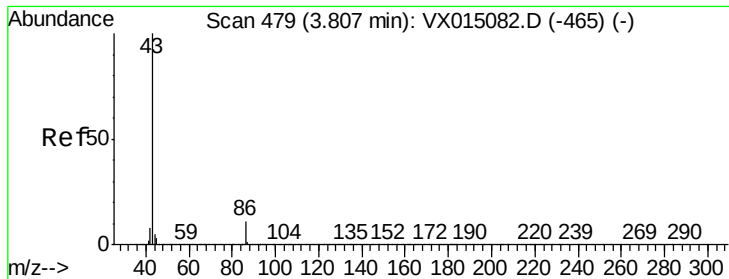
Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 45    | Resp: | 2551  |
| Ion      | Ratio | Lower | Upper |
| 45       | 100   |       |       |
| 43       | 117.2 | 58.2  | 87.2# |
| 87       | 20.7  | 21.2  | 31.8# |
| 59       | 22.8  | 8.9   | 13.3# |





#23

Vinyl Acetate

Concen: 0.795 ug/l

RT: 3.82 min Scan# 481

Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 43 Resp: 8182

Ion Ratio Lower Upper

43 100

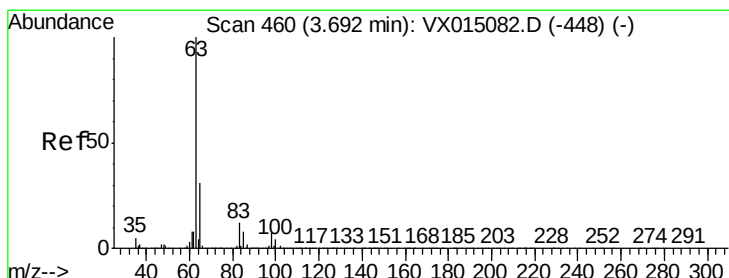
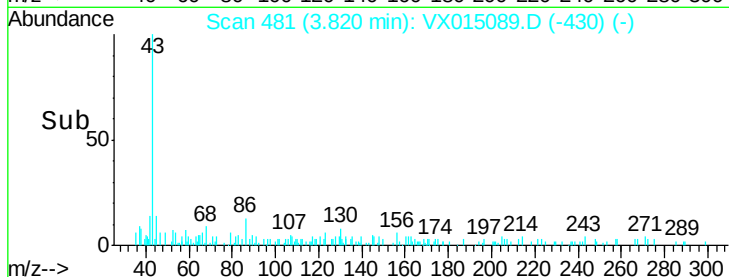
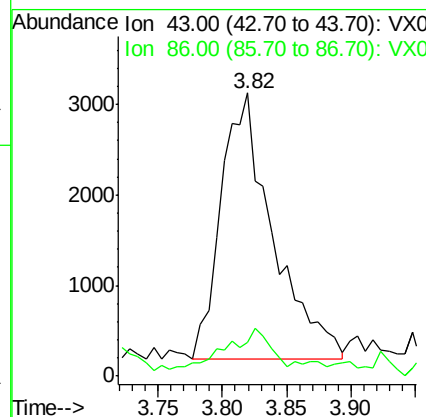
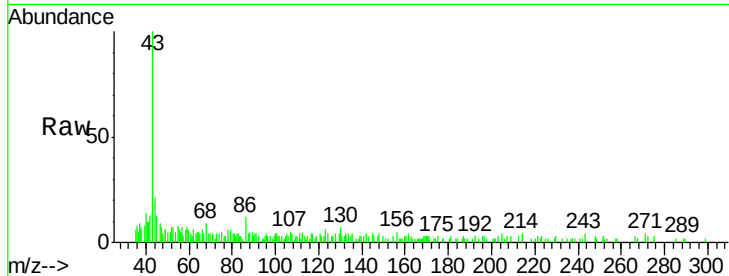
86 7.6 8.6 12.8#

Manual Integrations

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3/5/2020 3:54:01 PM



#24

1,1-Dichloroethane

Concen: 0.252 ug/l

RT: 3.69 min Scan# 459

Delta R.T. -0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

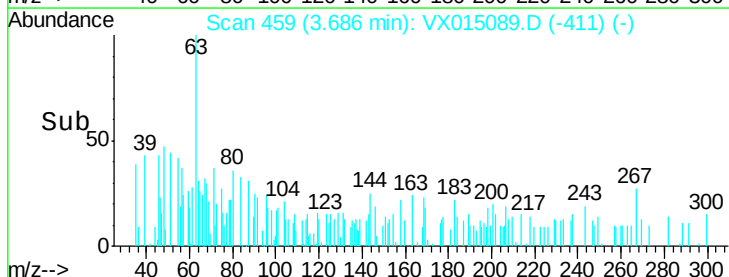
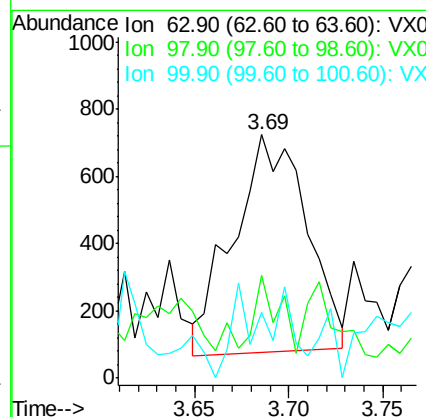
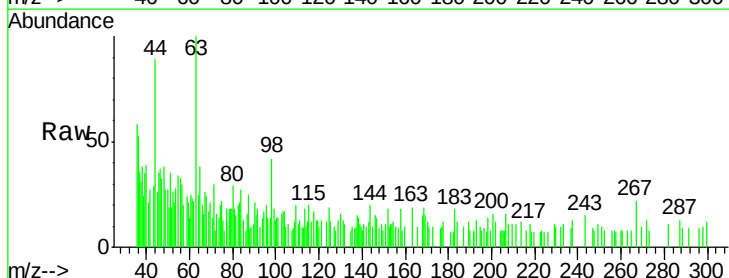
Tgt Ion: 63 Resp: 1749

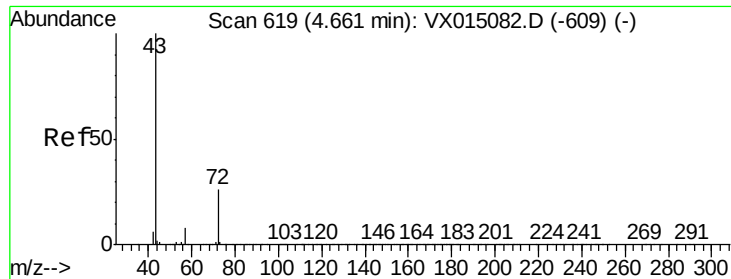
Ion Ratio Lower Upper

63 100

98 29.9 3.7 11.1#

100 2.7 2.1 6.5





#25

2-Butanone

Concen: 0.914 ug/l m

RT: 4.69 min Scan# 624

Delta R.T. 0.03 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 43 Resp: 2386

Ion Ratio Lower Upper

43 100

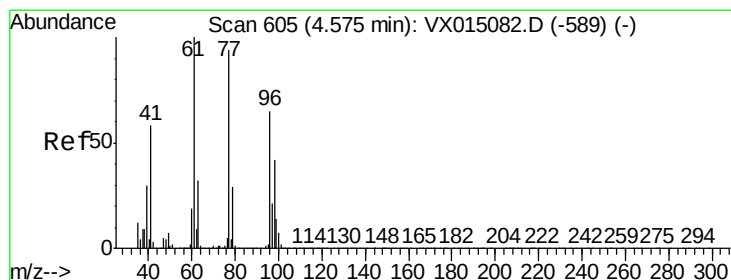
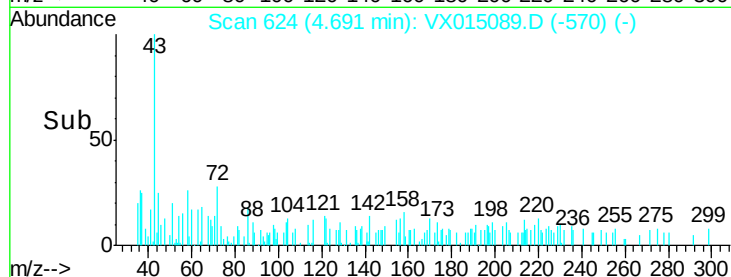
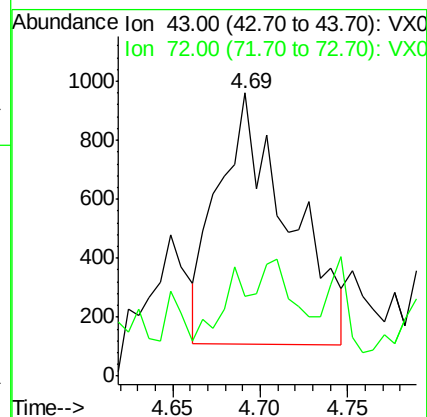
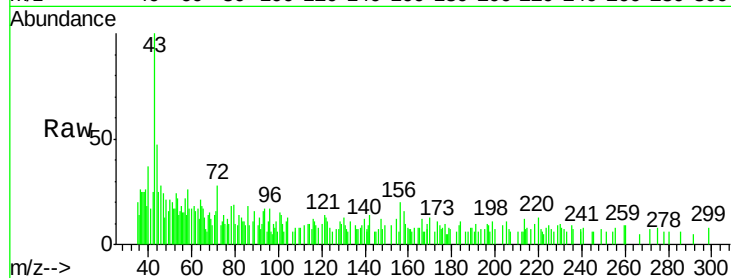
72 28.2 20.6 30.8

Manual Integrations

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3/5/2020 3:54:01 PM



#26

2,2-Dichloropropane

Concen: 0.232 ug/l m

RT: 4.58 min Scan# 605

Delta R.T. 0.00 min

Lab File: VX015089.D

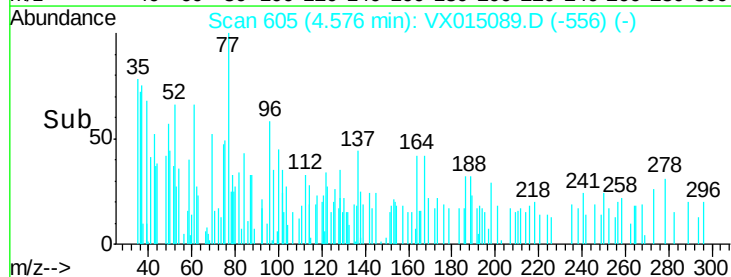
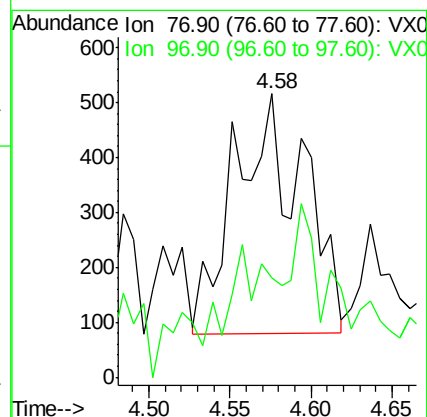
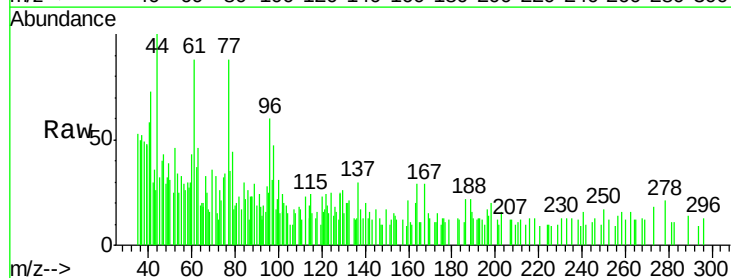
Acq: 04 Mar 2020 15:57

Tgt Ion: 77 Resp: 1279

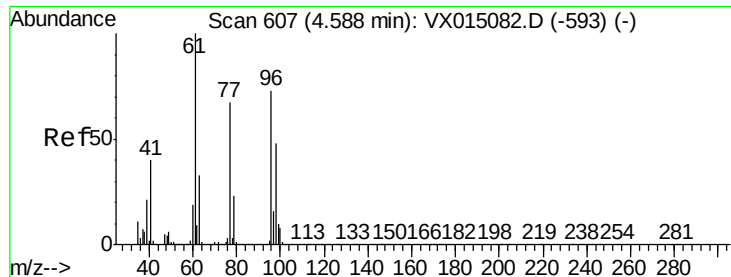
Ion Ratio Lower Upper

77 100

97 12.9 11.8 35.4







#27

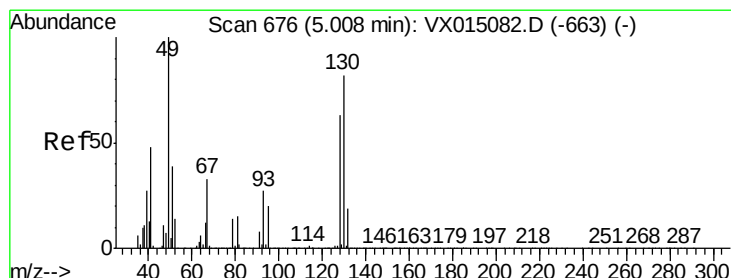
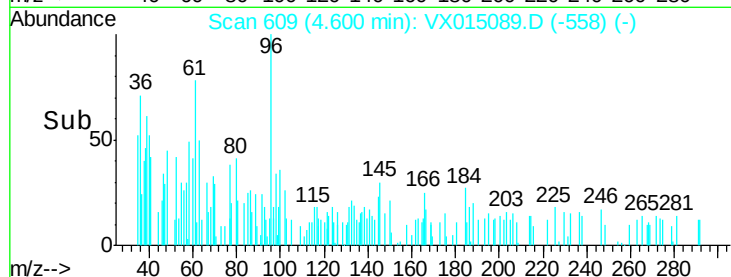
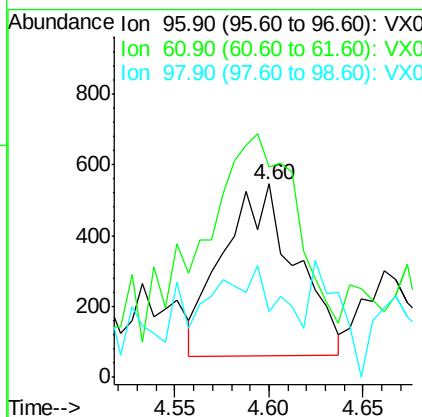
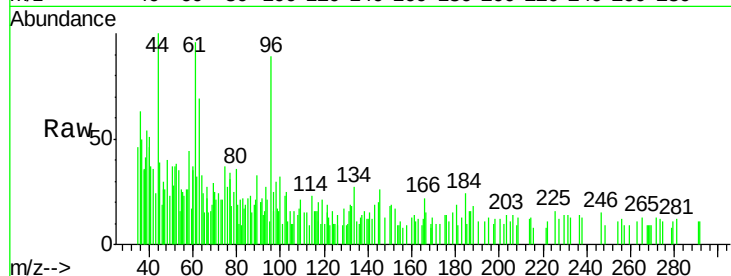
cis-1,2-Dichloroethene  
Concen: 0.299 ug/l  
RT: 4.60 min Scan# 609  
Delta R.T. 0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 157.2 | 0.0   | 286.8 |
| 98      | 35.2  | 0.0   | 128.4 |

Manual Integrations  
APPROVED

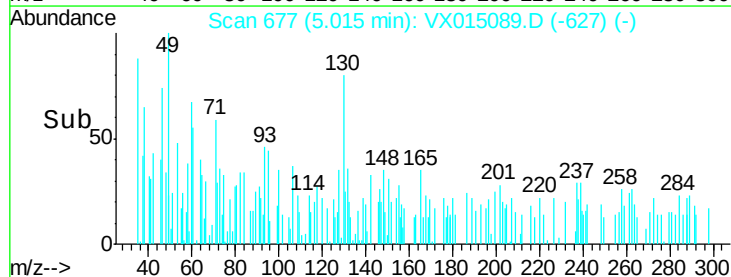
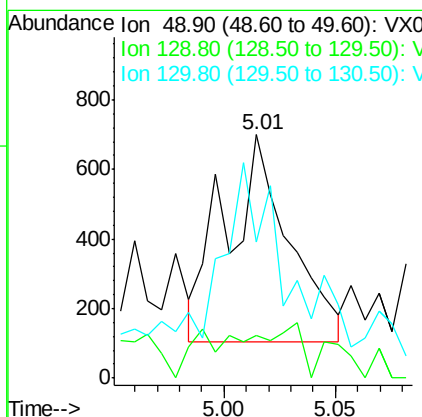
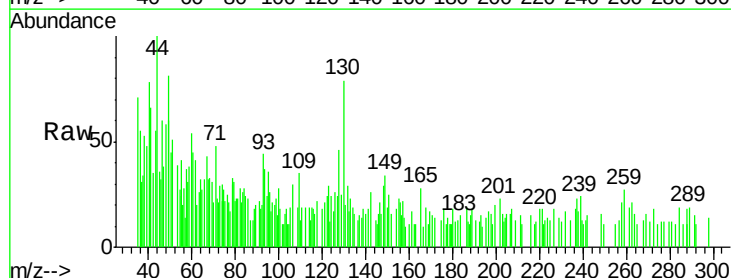
MMDadoda  
3/5/2020 3:54:01 PM

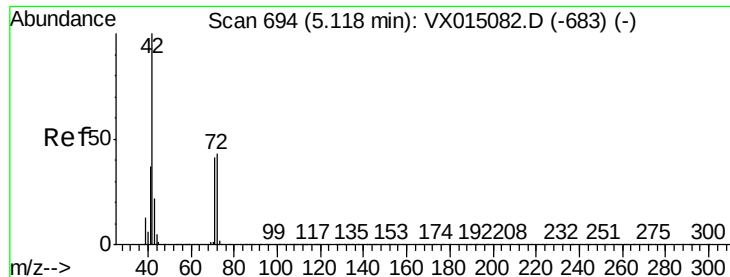


#28

Bromochloromethane  
Concen: 0.374 ug/l m  
RT: 5.01 min Scan# 677  
Delta R.T. 0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 49      | 100   |       |       |
| 129     | 0.0   | 0.0   | 4.4   |
| 130     | 139.2 | 65.0  | 97.6# |





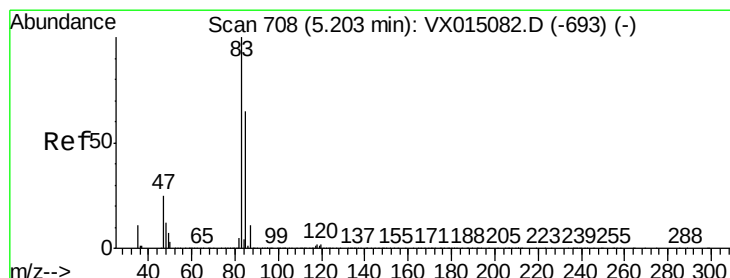
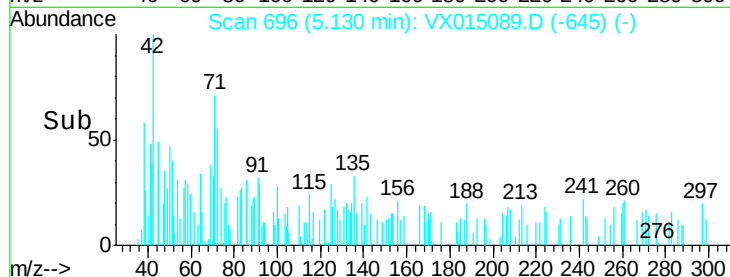
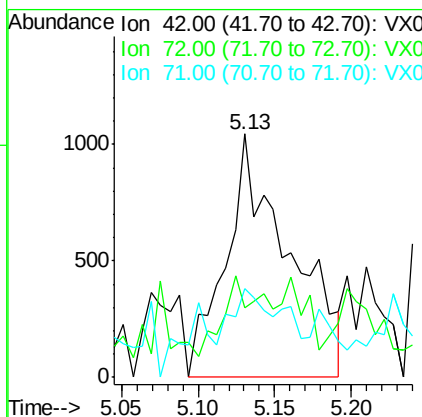
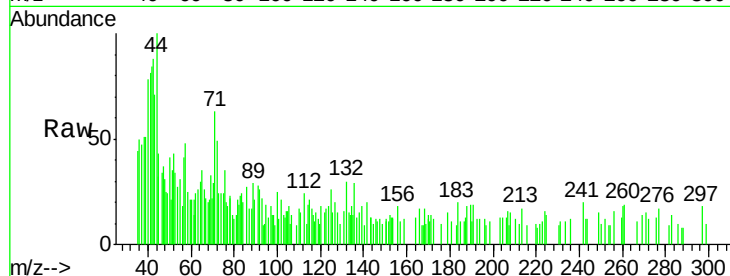
#29  
Tetrahydrofuran  
Concen: 1.800 ug/l  
RT: 5.13 min Scan# 696  
Delta R.T. 0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 14.1  | 36.4  | 54.6# |
| 71      | 18.2  | 33.3  | 49.9# |

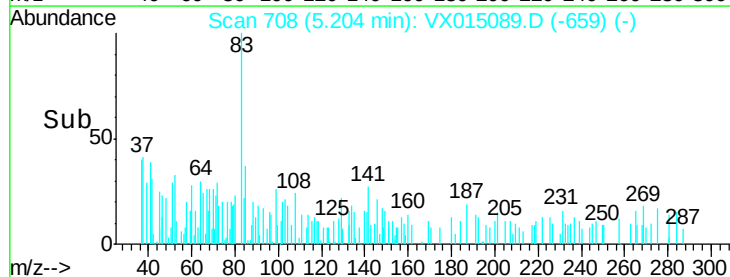
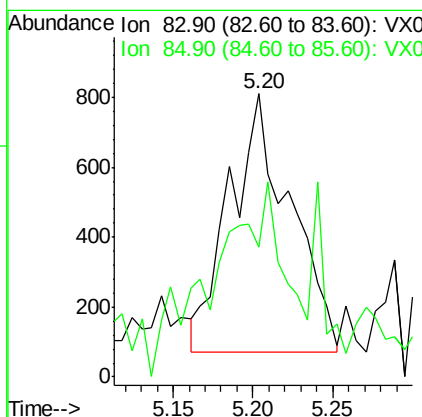
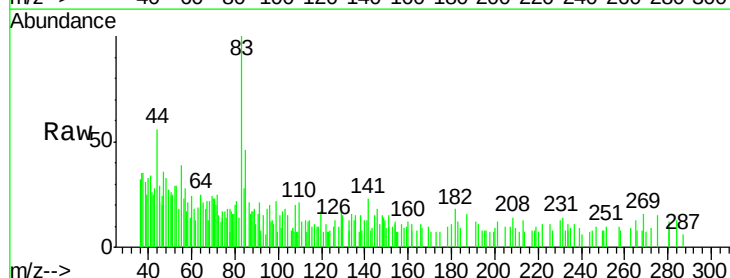
Manual Integrations  
APPROVED

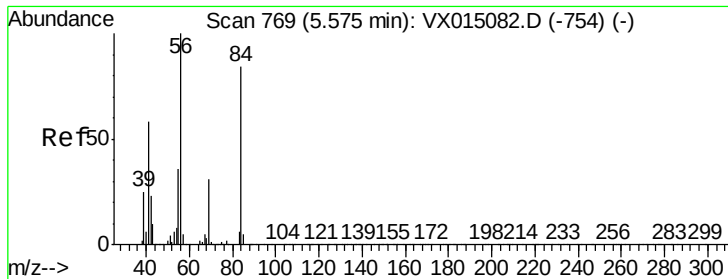
MMDadoda  
3/5/2020 3:54:01 PM



#30  
Chloroform  
Concen: 0.286 ug/l m  
RT: 5.20 min Scan# 708  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 45.8  | 52.0  | 78.0# |





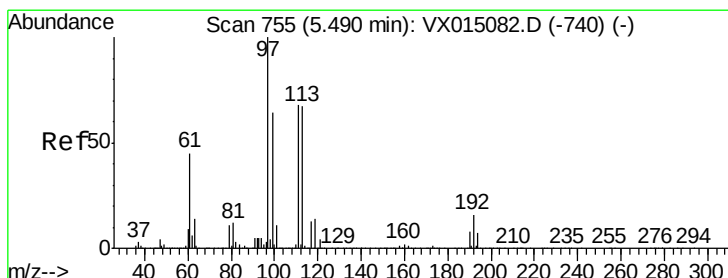
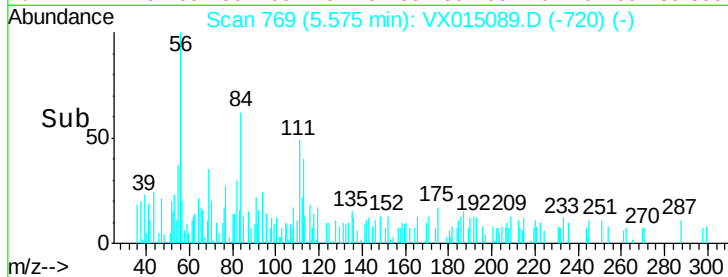
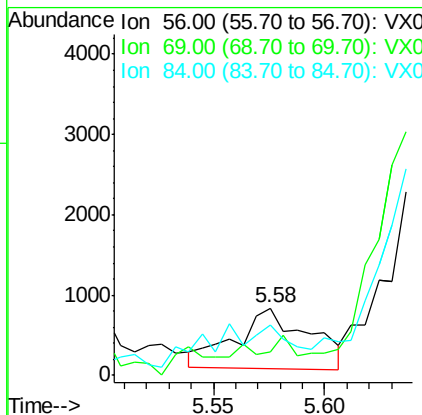
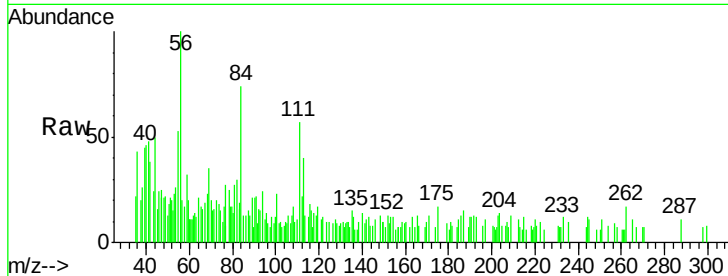
#31  
Cyclohexane  
Concen: 0.280 ug/l  
RT: 5.58 min Scan# 769  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 0.0   | 25.0  | 37.6# |
| 84      | 69.2  | 67.6  | 101.4 |

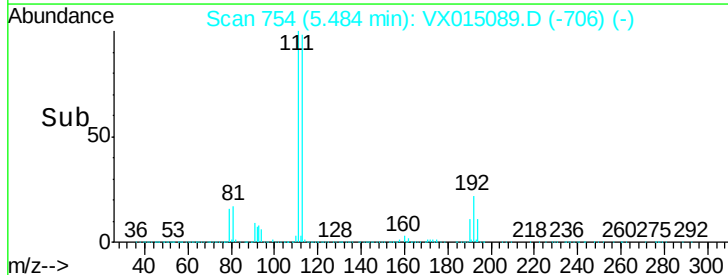
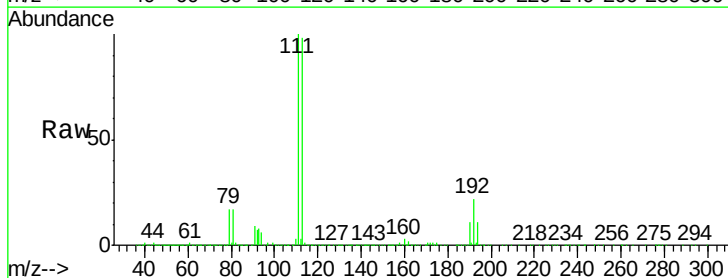
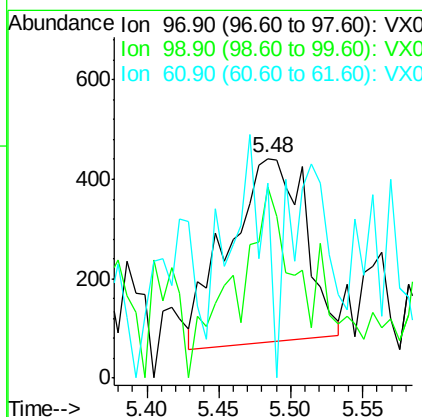
Manual Integrations  
APPROVED

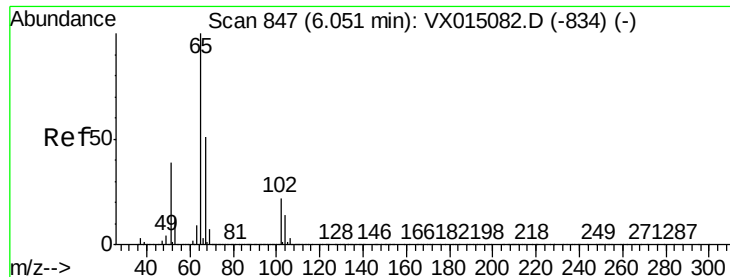
MMDadoda  
3/5/2020 3:54:01 PM



#32  
1,1,1-Trichloroethane  
Concen: 0.242 ug/l  
RT: 5.48 min Scan# 754  
Delta R.T. -0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 0.0   | 52.8  | 79.2# |
| 61      | 60.9  | 36.6  | 54.8# |





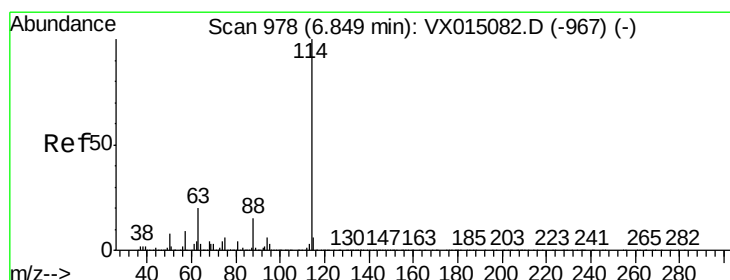
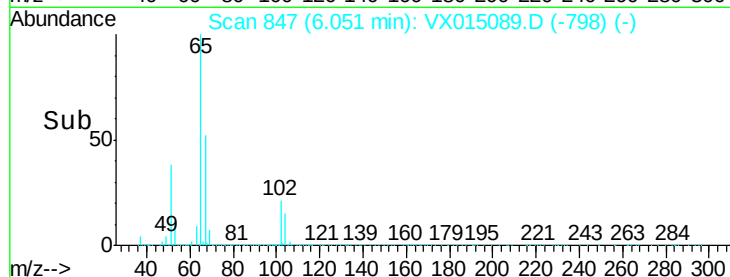
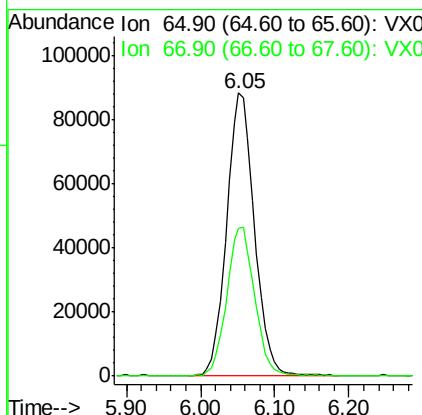
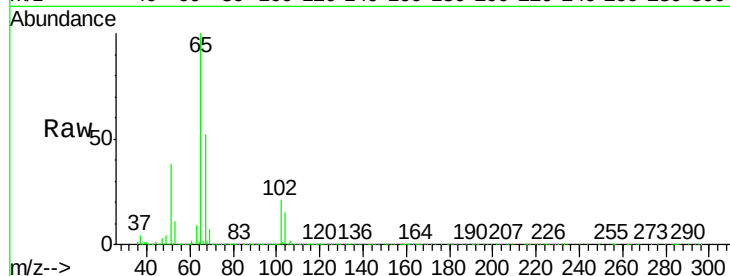
#33  
 1,2-Dichloroethane-d4  
 Concen: 52.251 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. 0.00 min  
 Lab File: VX015089.D  
 Acq: 04 Mar 2020 15:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 229970 |       |       |
| 67      | 53.3  | 0.0    | 105.6 |       |

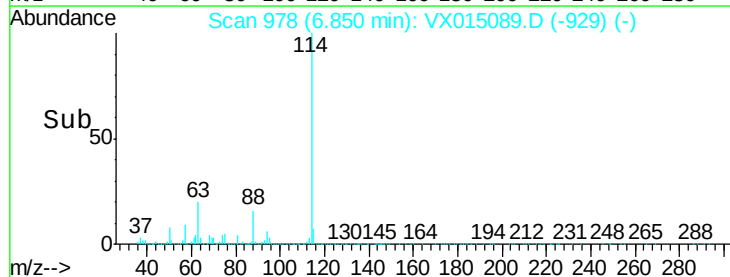
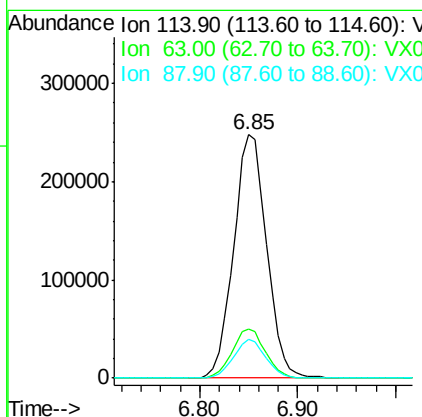
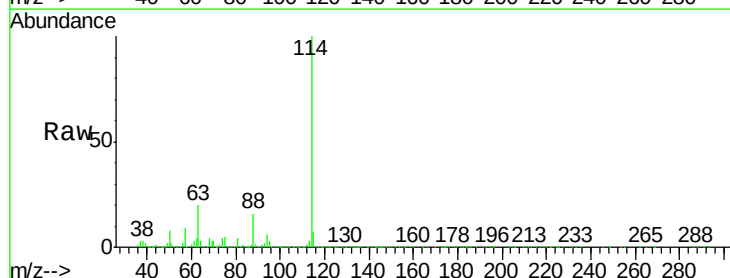
Manual Integrations  
 APPROVED

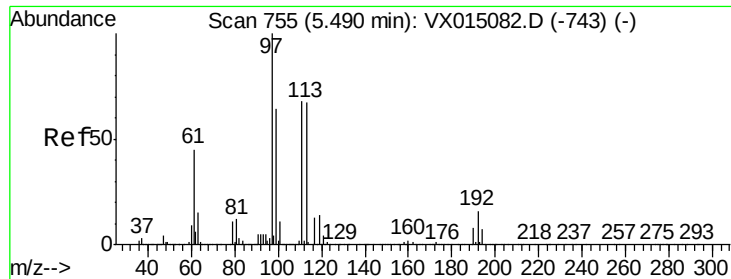
MMDadoda  
 3/5/2020 3:54:01 PM



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. 0.00 min  
 Lab File: VX015089.D  
 Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 578419 |       |       |
| 63      | 20.0  | 0.0    | 40.0  |       |
| 88      | 15.8  | 0.0    | 30.6  |       |





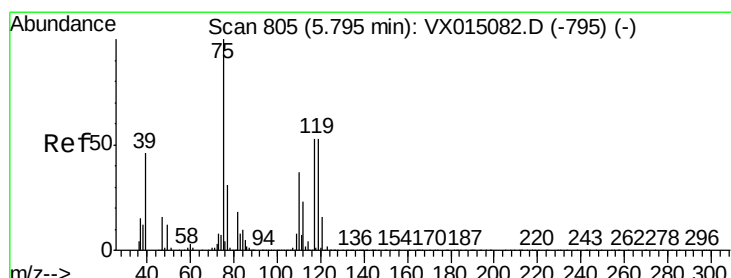
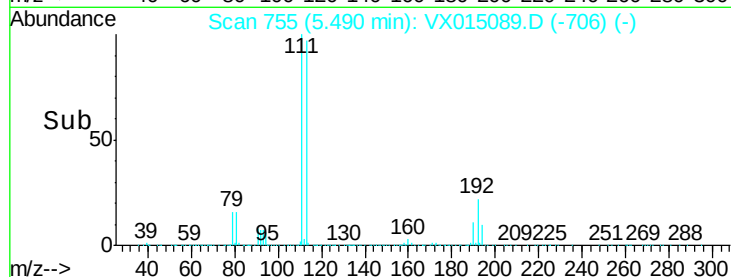
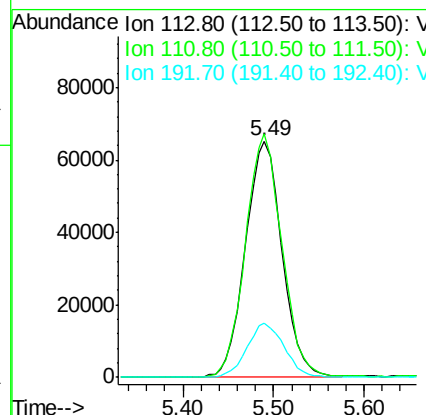
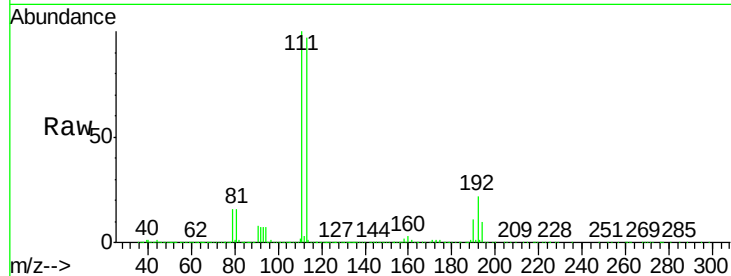
#35  
 Dibromofluoromethane  
 Concen: 49.786 ug/l  
 RT: 5.49 min Scan# 755  
 Delta R.T. 0.00 min  
 Lab File: VX015089.D  
 Acq: 04 Mar 2020 15:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 181672 |       |       |
| 111     | 103.0 | 82.6   | 123.8 |       |
| 192     | 23.5  | 18.6   | 28.0  |       |

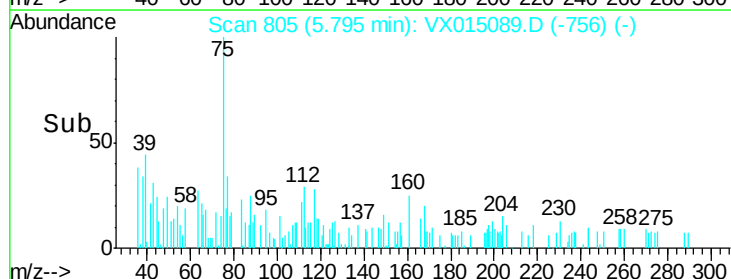
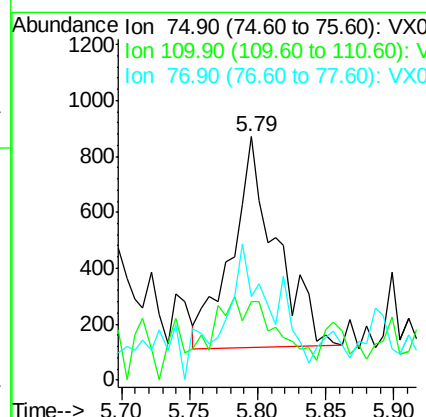
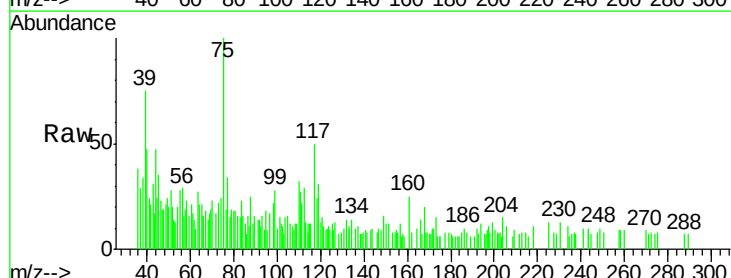
Manual Integrations  
 APPROVED

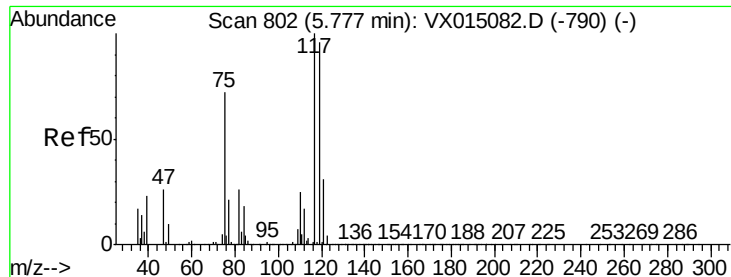
MMDadoda  
 3/5/2020 3:54:01 PM



#36  
 1,1-Dichloropropene  
 Concen: 0.319 ug/l  
 RT: 5.79 min Scan# 805  
 Delta R.T. 0.00 min  
 Lab File: VX015089.D  
 Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 75      | 100   | 1708 |       |       |
| 110     | 13.1  | 17.9 | 53.8# |       |
| 77      | 28.2  | 24.8 | 37.2  |       |





#38

Carbon Tetrachloride

Concen: 0.274 ug/l m

RT: 5.79 min Scan# 804

Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

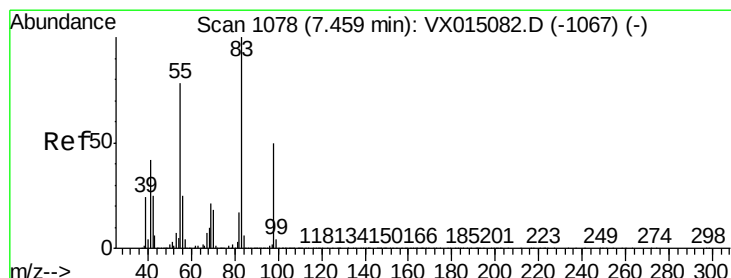
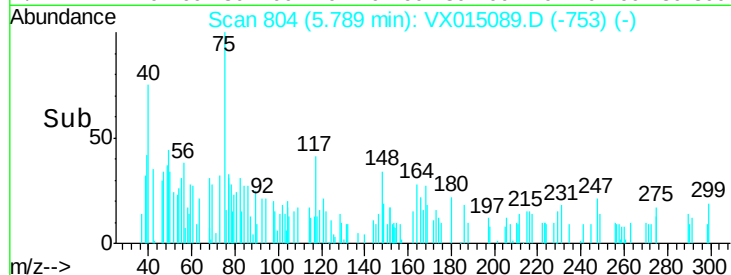
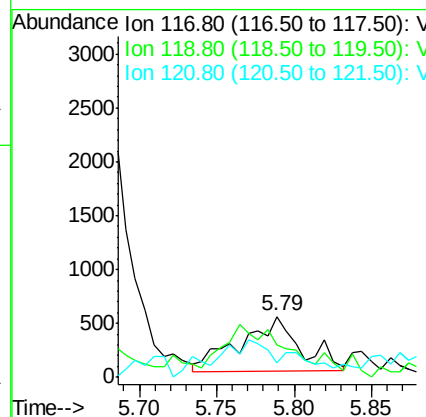
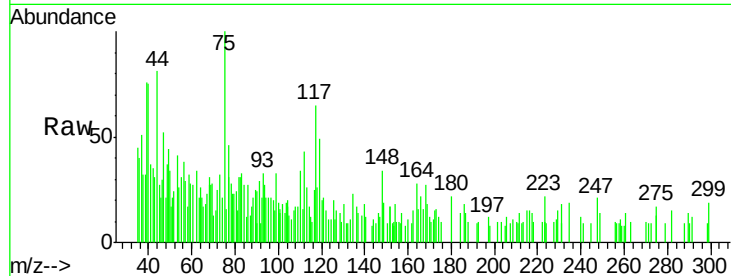
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 117   | Resp: | 1383   |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 75.0  | 76.9  | 115.3# |
| 121       | 32.8  | 24.6  | 37.0   |

Manual Integrations  
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3/5/2020 3:54:01 PM



#39

Methylcyclohexane

Concen: 0.356 ug/l m

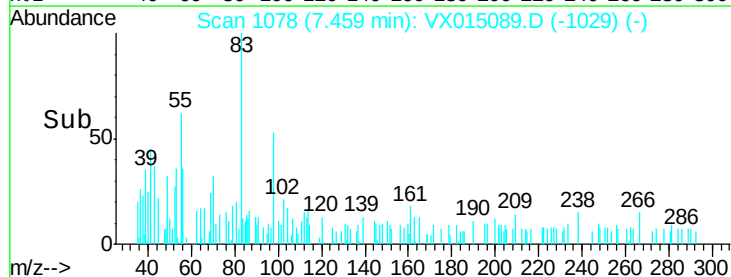
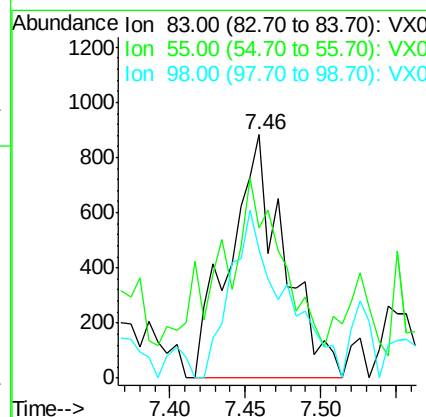
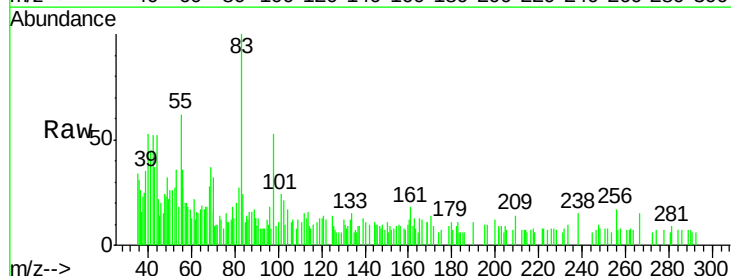
RT: 7.46 min Scan# 1078

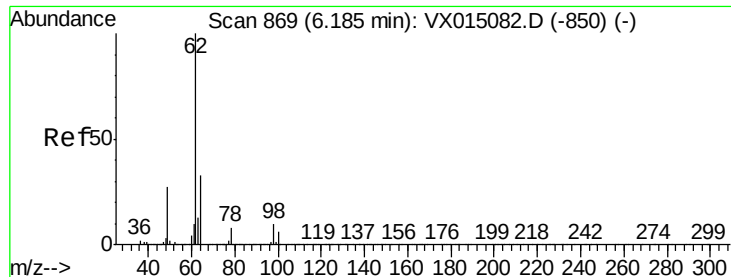
Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 2222  |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 55        | 61.7  | 62.4  | 93.6# |
| 98        | 52.8  | 39.7  | 59.5  |





#42

1,2-Dichloroethane

Concen: 0.278 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

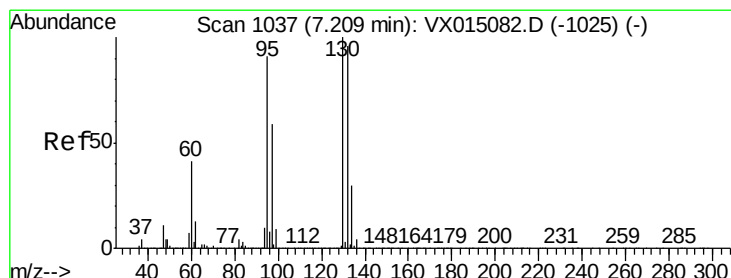
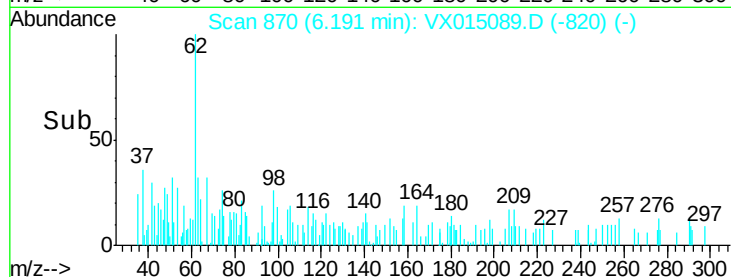
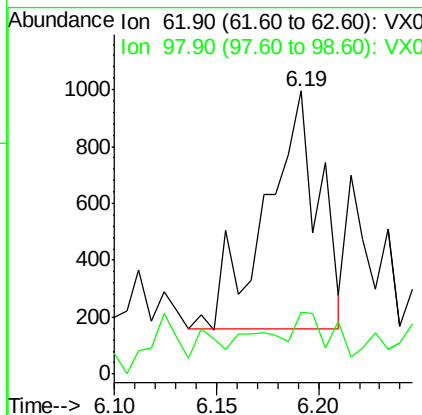
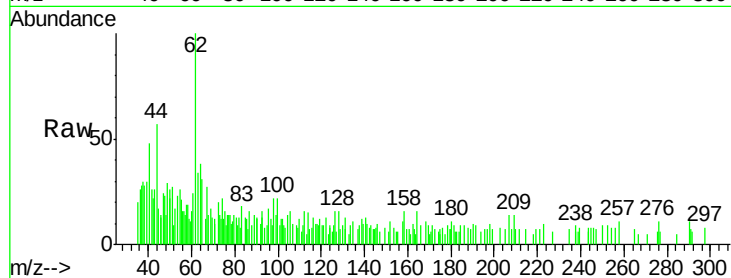
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 62    | Resp: | 1514 |
| Ion Ratio | Lower | Upper |      |
| 62        | 100   |       |      |
| 98        | 14.3  | 0.0   | 20.6 |

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3/5/2020 3:54:01 PM



#44

Trichloroethene

Concen: 0.366 ug/l

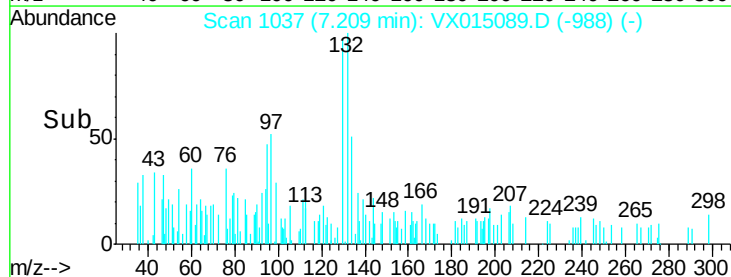
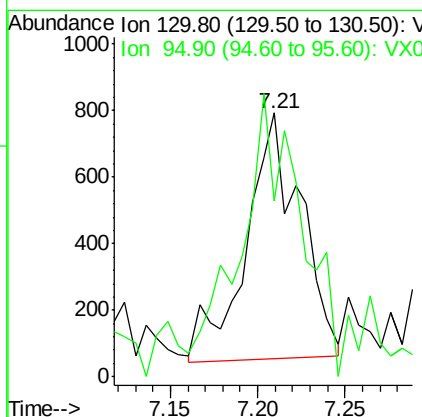
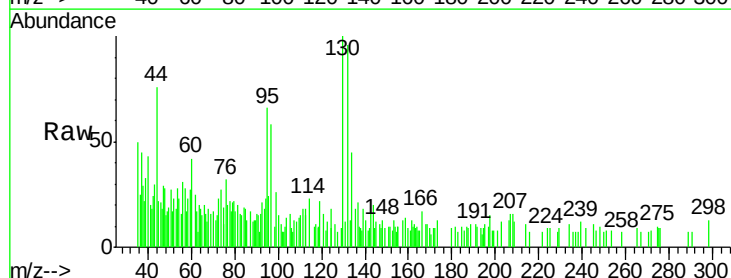
RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

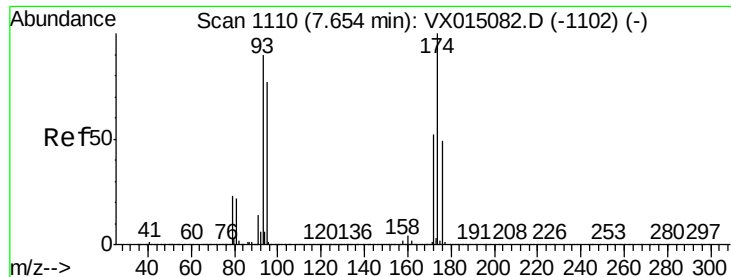
Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 130   | Resp: | 1615  |
| Ion Ratio | Lower | Upper |       |
| 130       | 100   |       |       |
| 95        | 65.9  | 0.0   | 181.2 |







#46

Dibromomethane

Concen: 0.454 ug/l

RT: 7.66 min Scan# 1111

Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

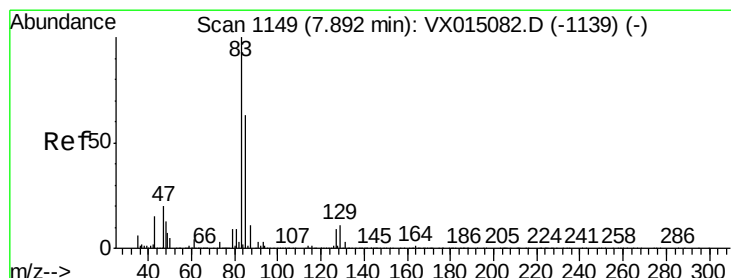
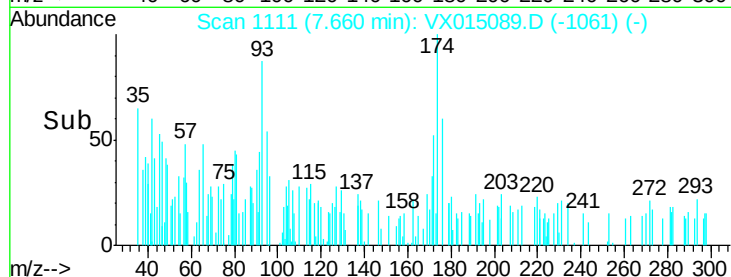
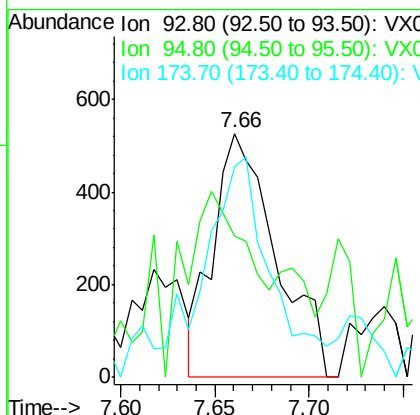
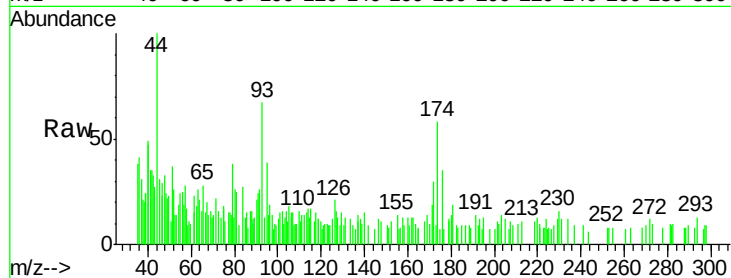
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 93    | Resp: | 1216  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 95       | 78.1  | 67.8  | 101.8 |
| 174      | 95.6  | 91.0  | 136.4 |

Manual Integrations  
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3/5/2020 3:54:01 PM



#47

Bromodichloromethane

Concen: 0.244 ug/l

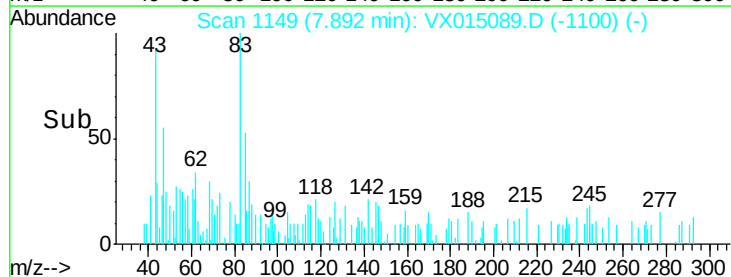
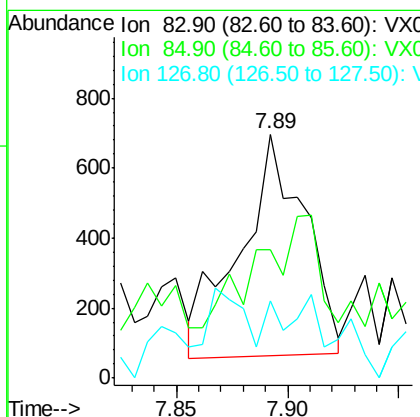
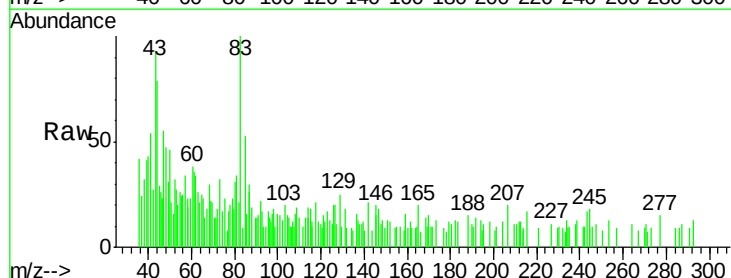
RT: 7.89 min Scan# 1149

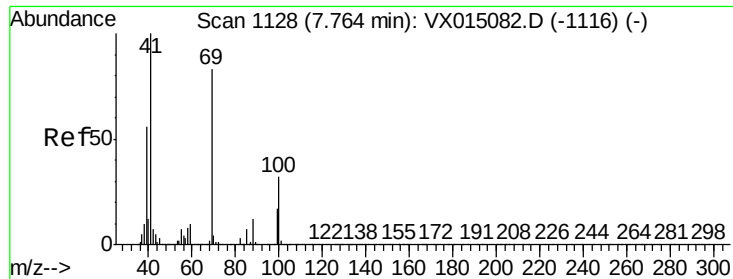
Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 1292  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 61.9  | 50.6  | 75.8  |
| 127      | 24.9  | 7.1   | 10.7# |





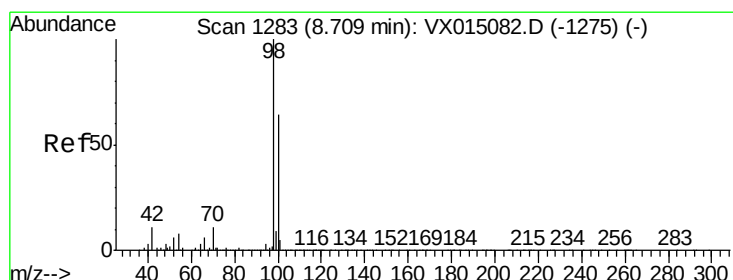
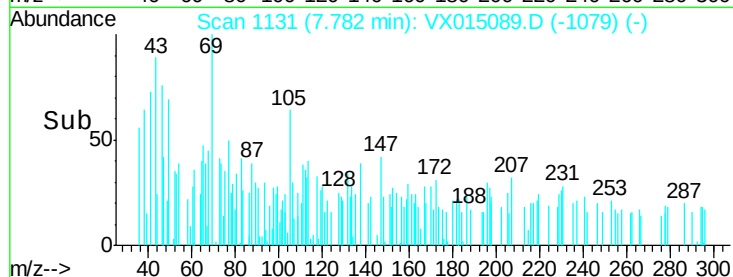
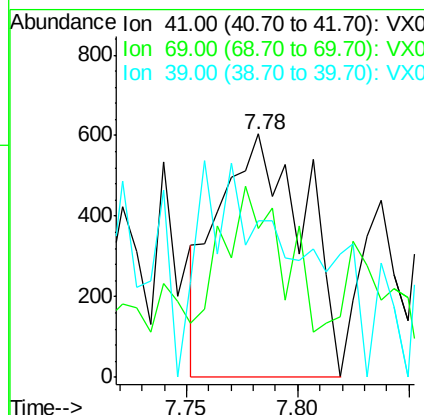
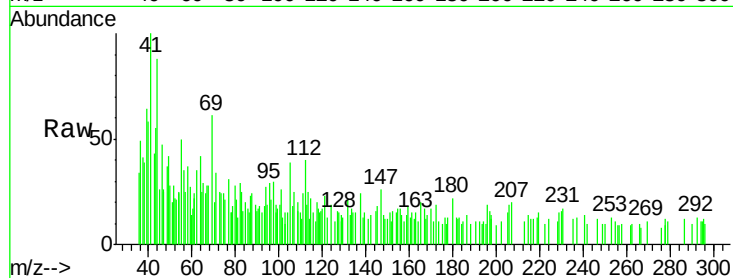
#48  
Methvl methacrylate  
Concen: 0.365 ug/l  
RT: 7.78 min Scan# 1131  
Delta R.T. 0.02 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 41.7  | 65.4  | 98.2# |
| 39      | 0.0   | 44.6  | 67.0# |

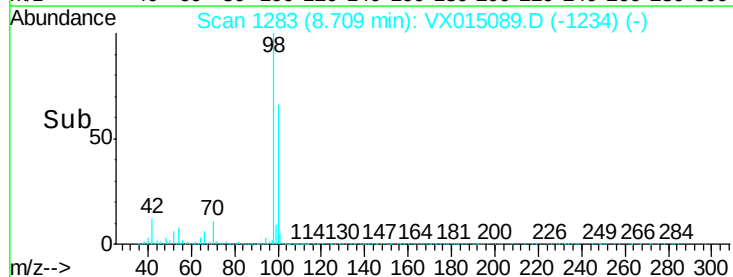
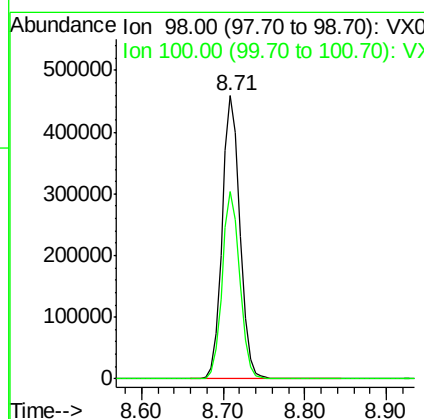
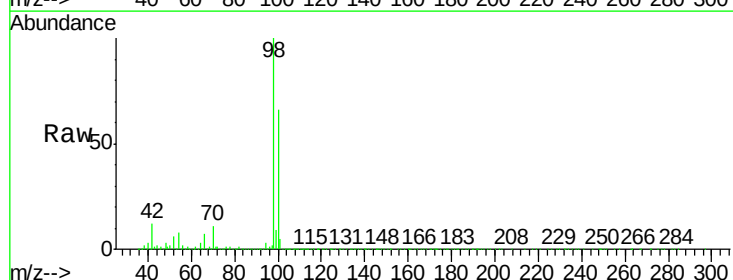
Manual Integrations  
APPROVED

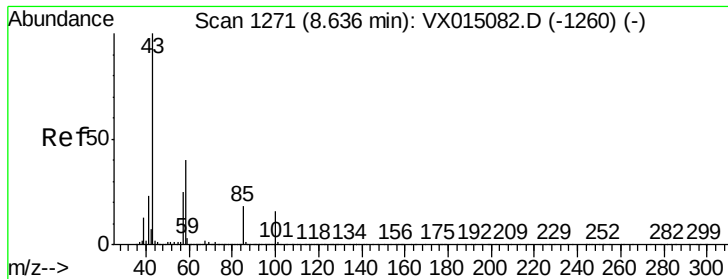
MMDadoda  
3/5/2020 3:54:01 PM



#50  
Toluene-d8  
Concen: 50.299 ug/l  
RT: 8.71 min Scan# 1283  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 65.3  | 52.4  | 78.6  |





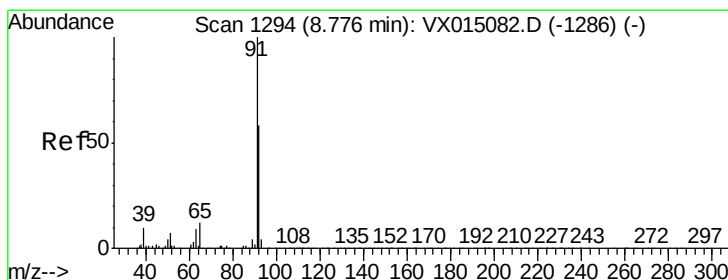
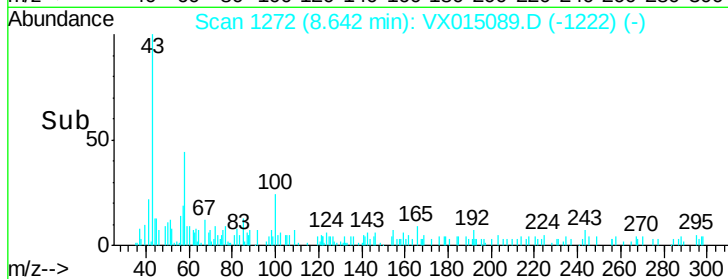
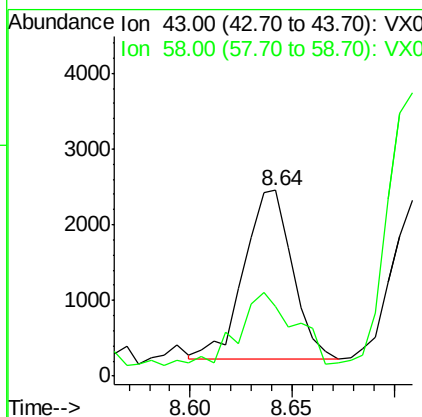
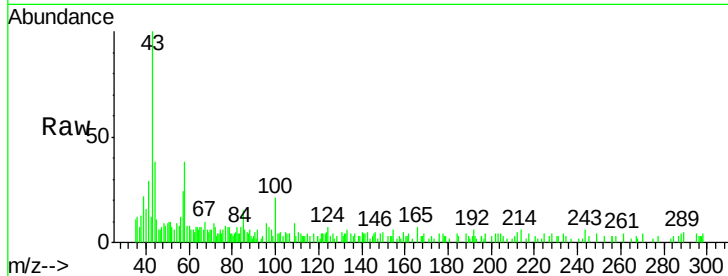
#51  
4-Methyl-2-Pentanone  
Concen: 0.710 ug/l  
RT: 8.64 min Scan# 1272  
Delta R.T. 0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 60.2  | 31.6  | 47.4# |

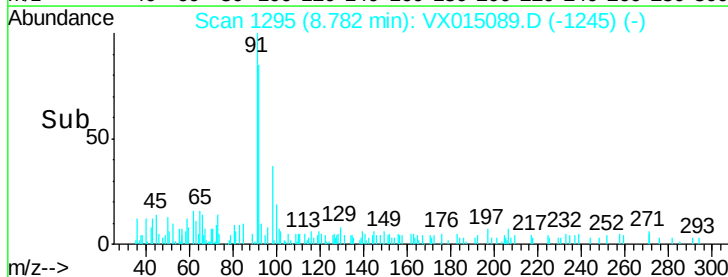
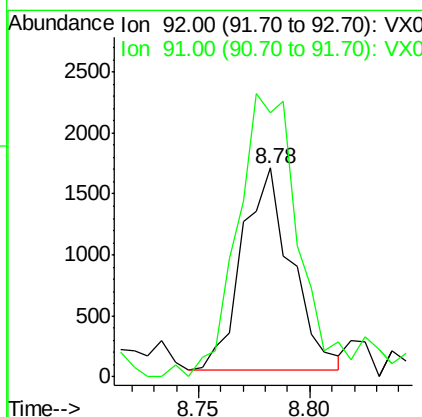
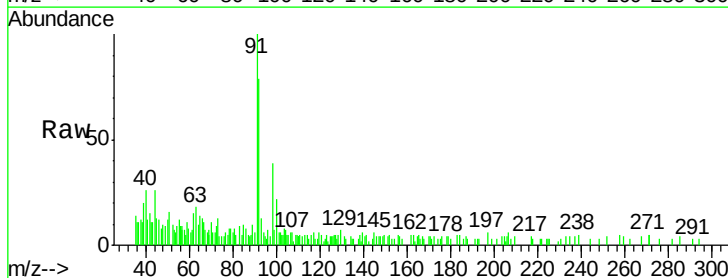
Manual Integrations  
APPROVED

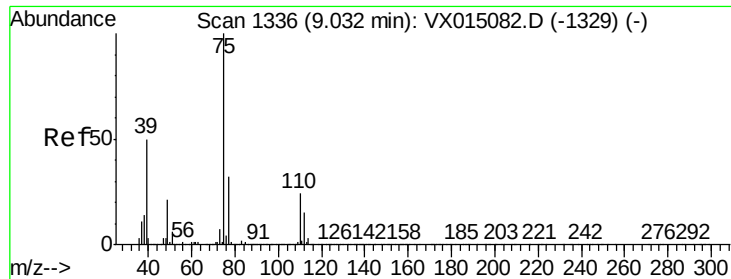
MMDadoda  
3/5/2020 3:54:01 PM



#52  
Toluene  
Concen: 0.264 ug/l  
RT: 8.78 min Scan# 1295  
Delta R.T. 0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 92      | 100   |       |       |
| 91      | 172.6 | 136.9 | 205.3 |





#53

t-1,3-Dichloropropene

Concen: 0.299 ug/l

RT: 9.04 min Scan# 1337

Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 75 Resp: 1682

Ion Ratio Lower Upper

75 100

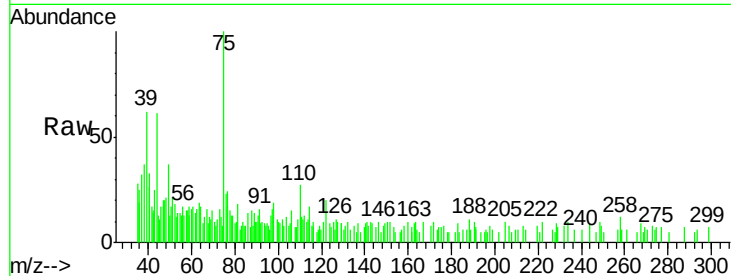
77 29.4 25.4 38.0

Manual Integrations

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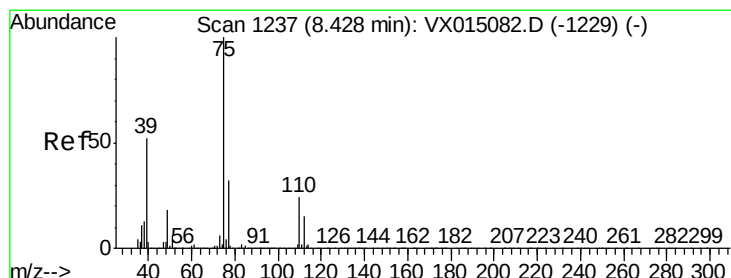
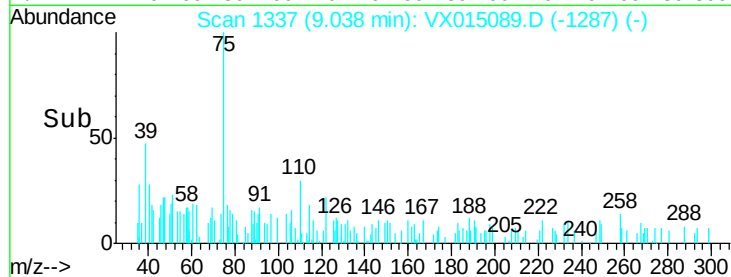
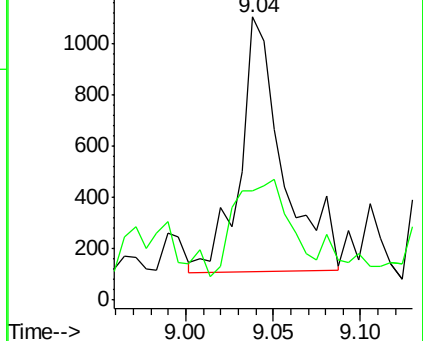
MMDadoda

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Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#54

cis-1,3-Dichloropropene

Concen: 0.259 ug/l

RT: 8.43 min Scan# 1238

Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

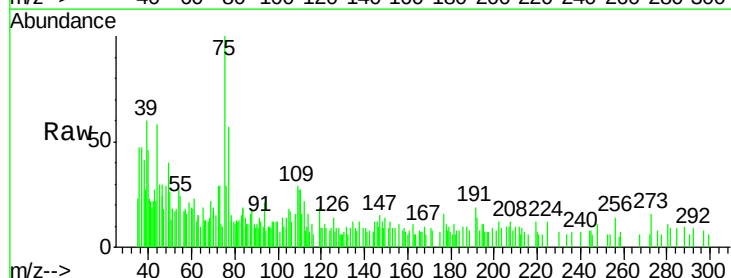
Tgt Ion: 75 Resp: 1651

Ion Ratio Lower Upper

75 100

77 39.4 25.8 38.6#

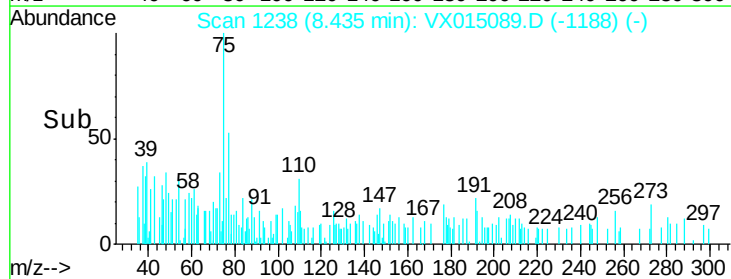
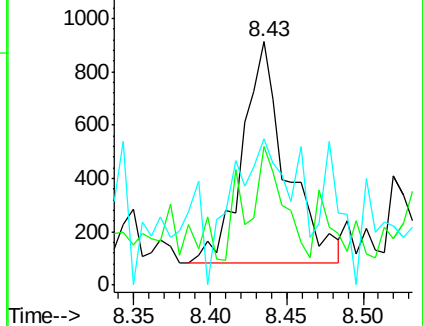
39 33.5 41.3 61.9#

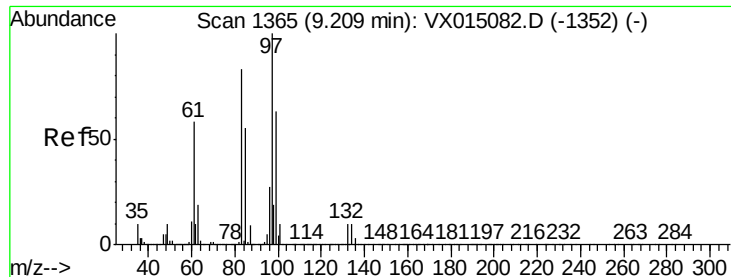


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#55

1,1,2-Trichloroethane

Concen: 0.328 ug/l

RT: 9.22 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

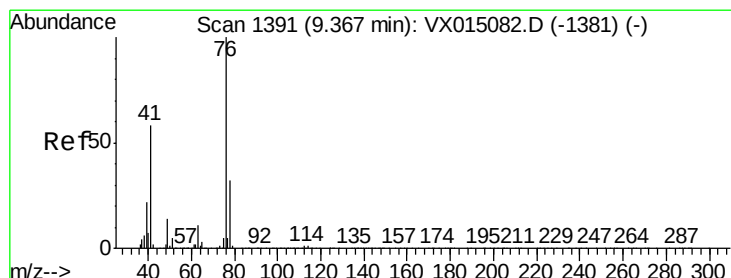
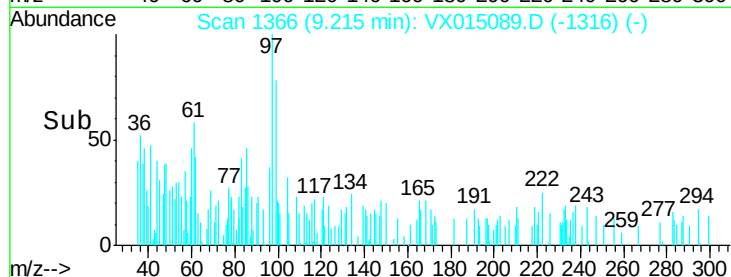
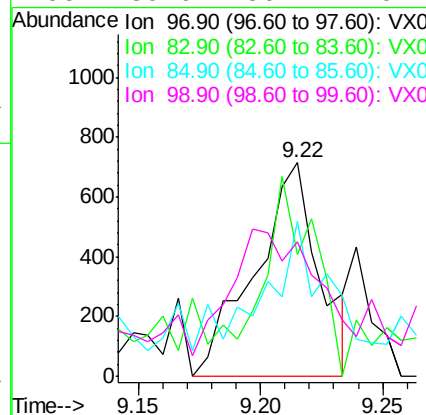
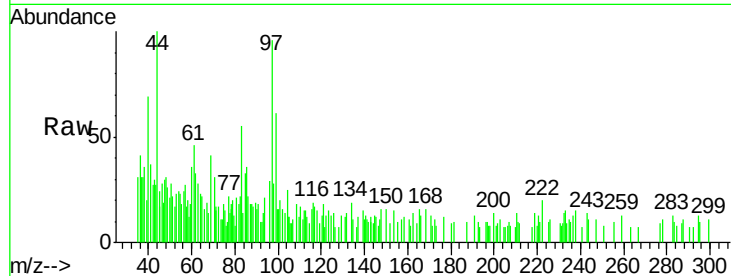
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 97      | 100  |       |       |       |
| 83      | 25.6 | 66.4  | 99.6# |       |
| 85      | 60.3 | 43.5  | 65.3  |       |
| 99      | 39.9 | 50.7  | 76.1# |       |

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#57

1,3-Dichloropropane

Concen: 0.268 ug/l m

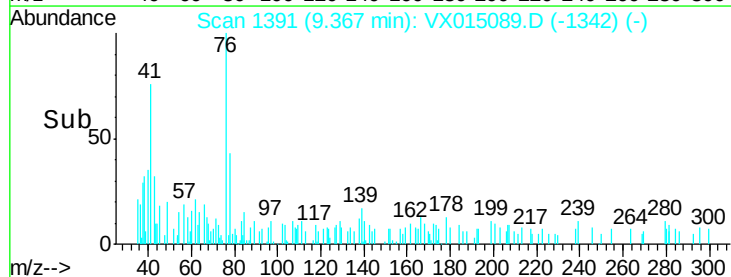
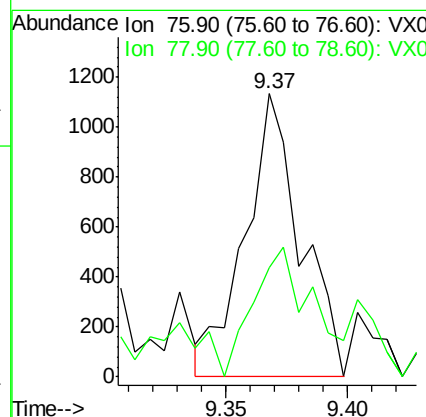
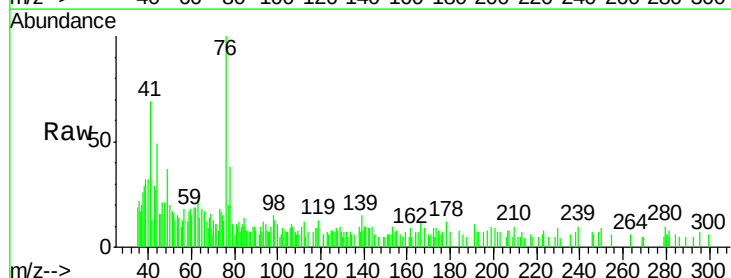
RT: 9.37 min Scan# 1391

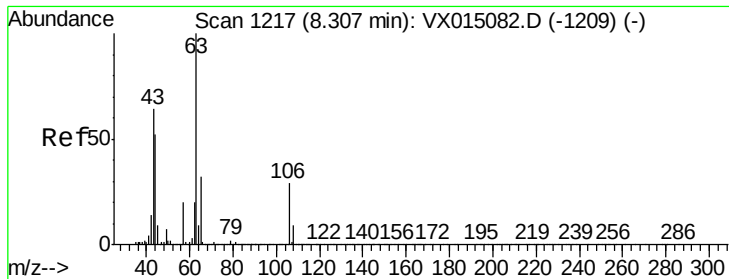
Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

| Tgt Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 76      | 100 |       |       |       |
| 78      | 4.5 | 25.6  | 38.4# |       |





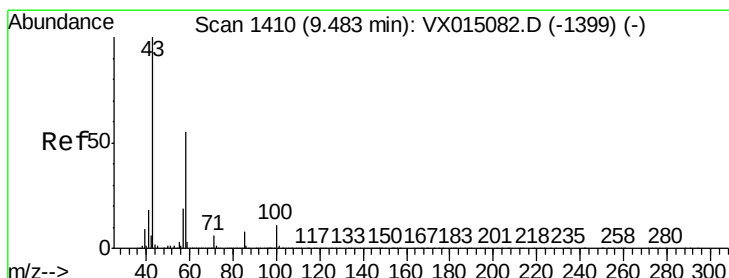
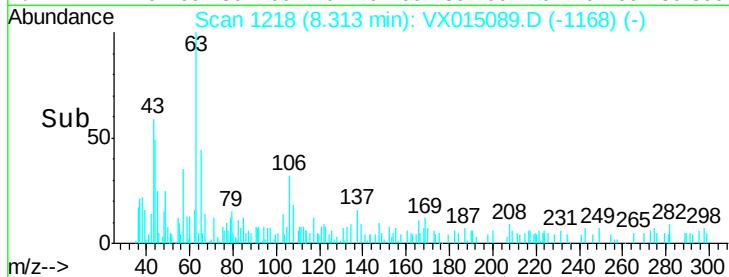
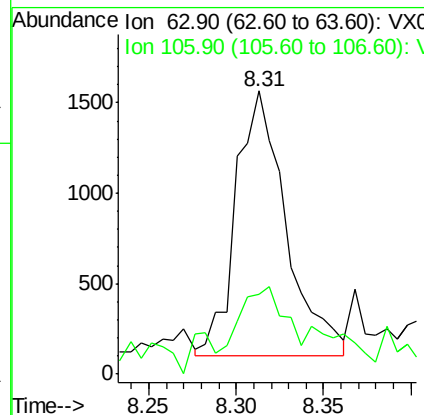
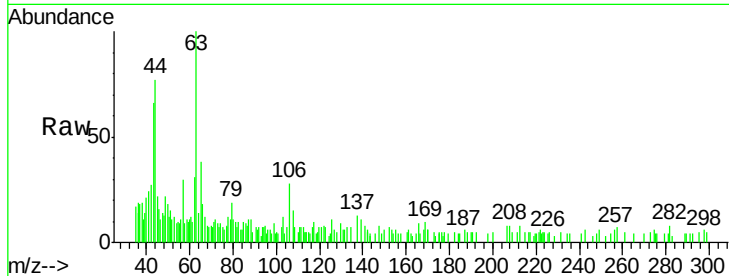
#58  
 2-Chloroethyl Vinyl ether  
 Concen: 0.945 ug/l m  
 RT: 8.31 min Scan# 1218  
 Delta R.T. 0.01 min  
 Lab File: VX015089.D  
 Acq: 04 Mar 2020 15:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 106     | 2.7   | 22.8  | 34.2# |

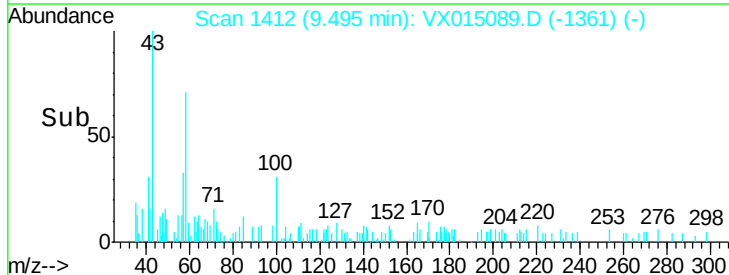
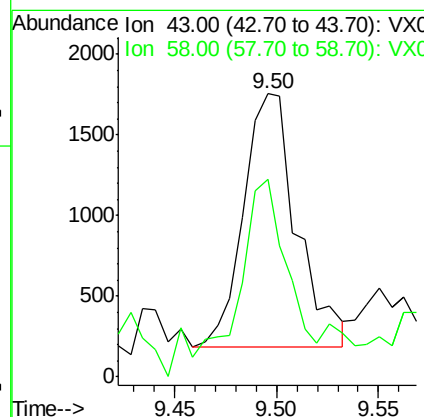
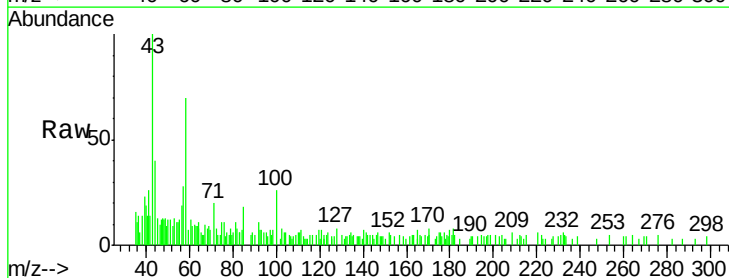
Manual Integrations  
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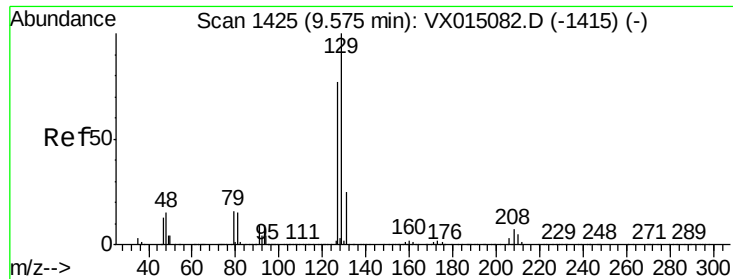
MMDadoda  
 3/5/2020 3:54:01 PM



#59  
 2-Hexanone  
 Concen: 0.748 ug/l  
 RT: 9.50 min Scan# 1412  
 Delta R.T. 0.01 min  
 Lab File: VX015089.D  
 Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 77.2  | 27.3  | 81.8  |





#60

Dibromochloromethane

Concen: 0.230 ug/l m

RT: 9.57 min Scan# 1425

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:129 Resp: 964

Ion Ratio Lower Upper

129 100

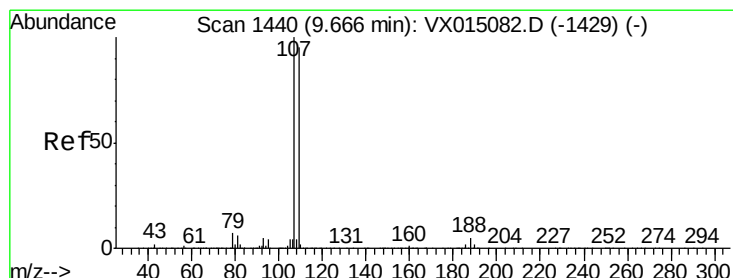
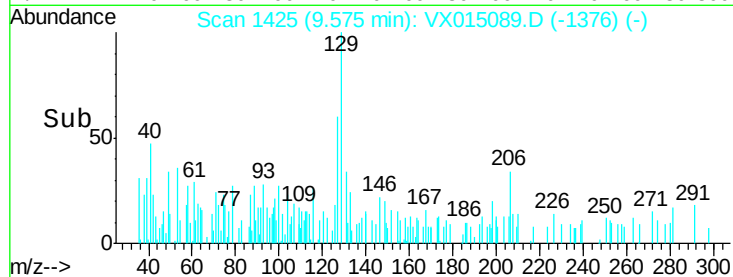
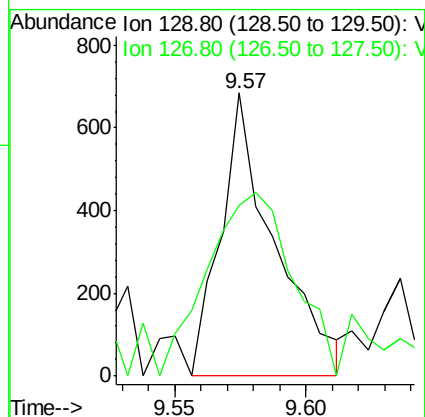
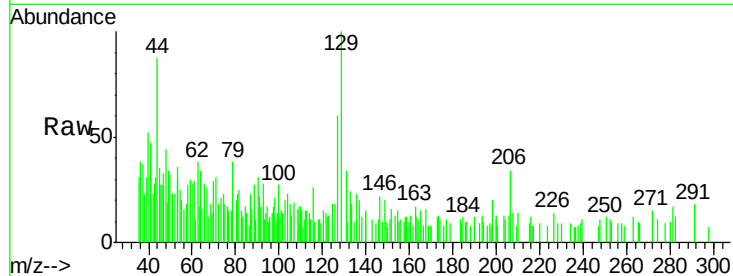
127 11.4 38.8 116.3#

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#61

1,2-Dibromoethane

Concen: 0.307 ug/l

RT: 9.67 min Scan# 1441

Delta R.T. 0.01 min

Lab File: VX015089.D

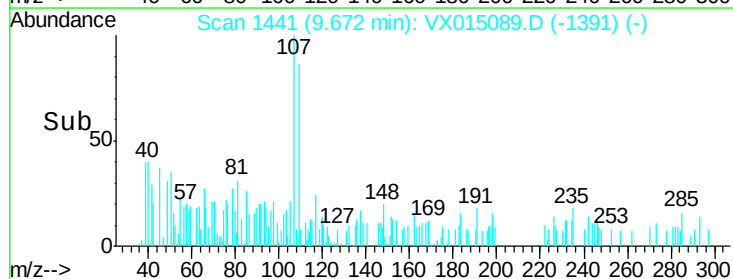
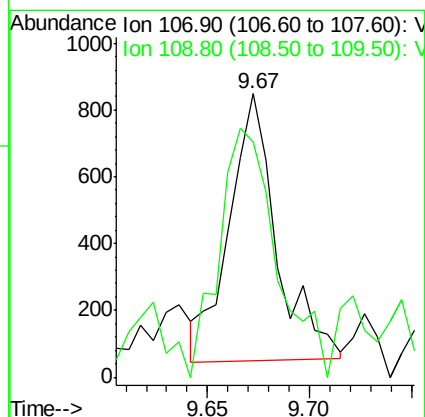
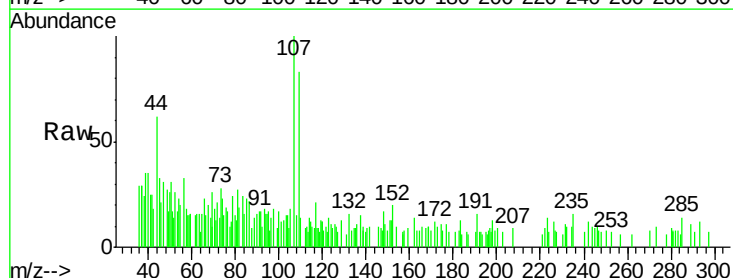
Acq: 04 Mar 2020 15:57

Tgt Ion:107 Resp: 1286

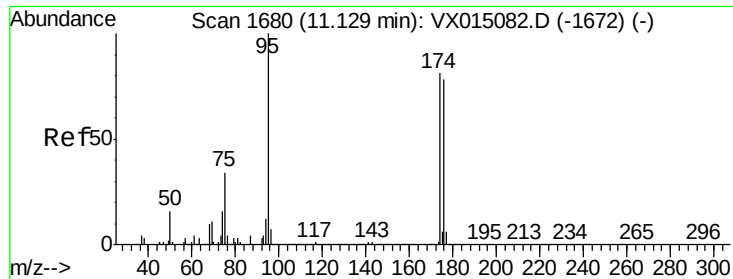
Ion Ratio Lower Upper

107 100

109 112.8 75.6 113.4







#62

4-Bromofluorobenzene

Concen: 46.971 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

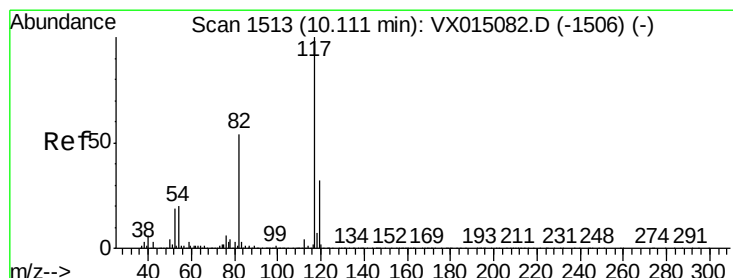
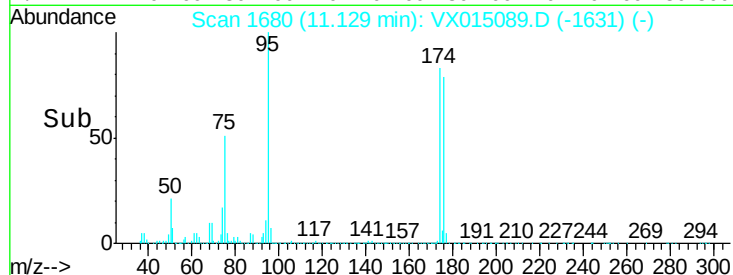
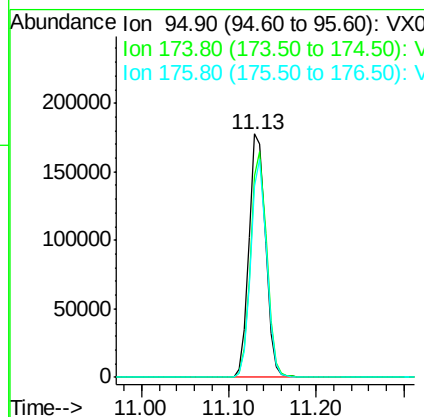
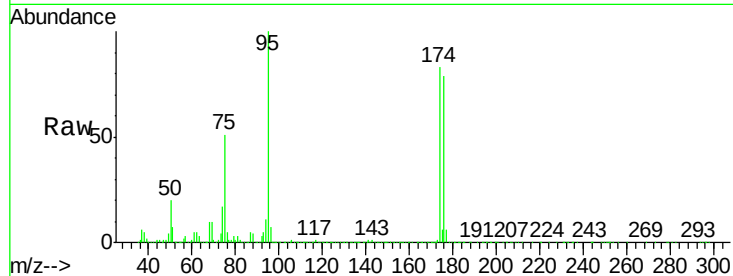
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 232553 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 89.6  | 0.0   | 177.6  |
| 176       | 85.3  | 0.0   | 170.2  |

Manual Integrations  
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3/5/2020 3:54:01 PM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

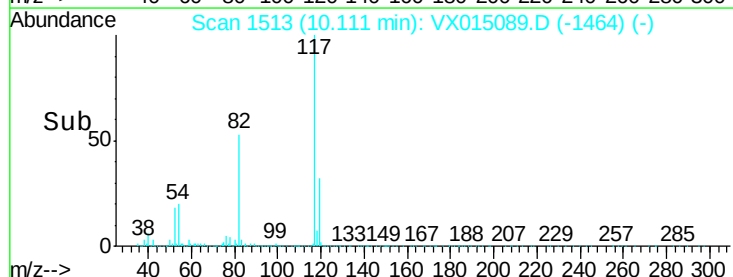
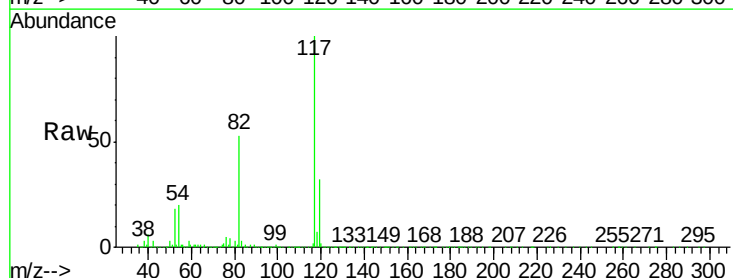
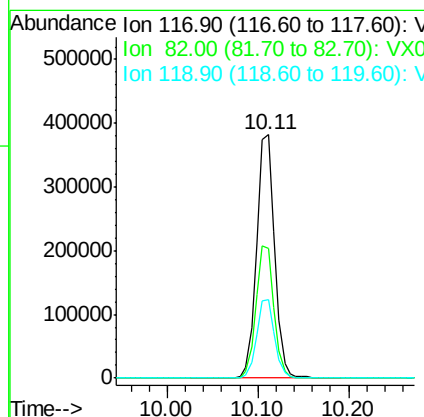
RT: 10.11 min Scan# 1513

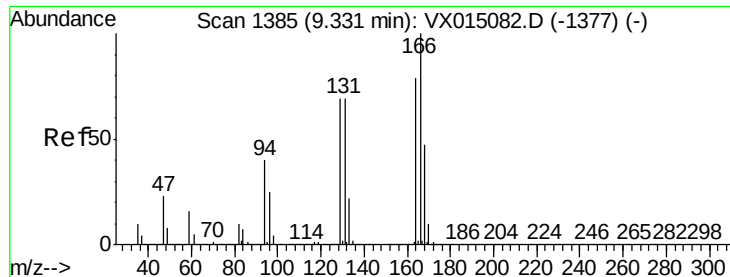
Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 522956 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 53.0  | 43.3  | 64.9   |
| 119       | 32.3  | 25.8  | 38.8   |





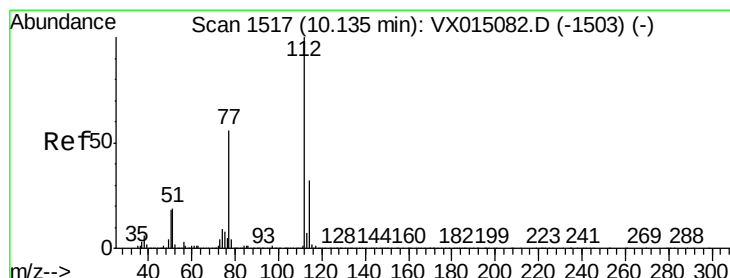
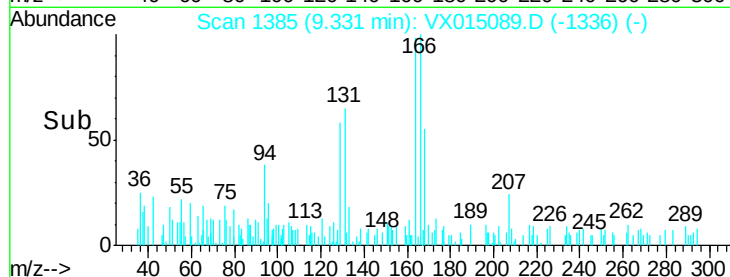
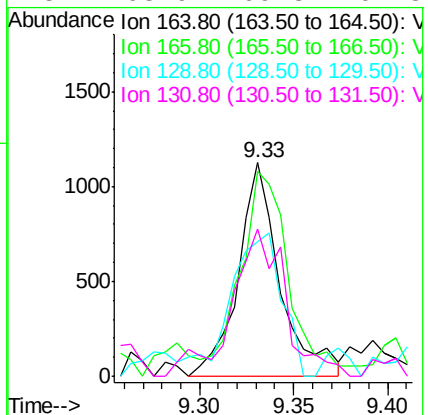
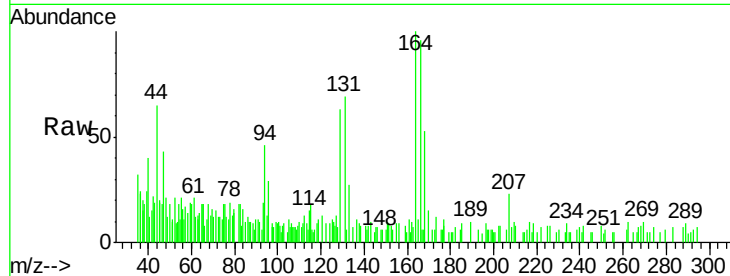
#64  
Tetrachloroethene  
Concen: 0.400 ug/l  
RT: 9.33 min Scan# 1385  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 91.1  | 101.1 | 151.7# |
| 129     | 53.8  | 69.4  | 104.0# |
| 131     | 63.9  | 69.8  | 104.8# |

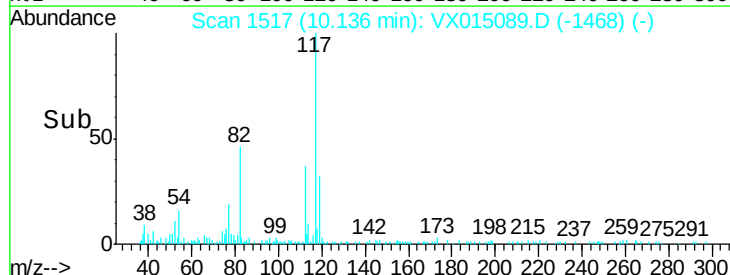
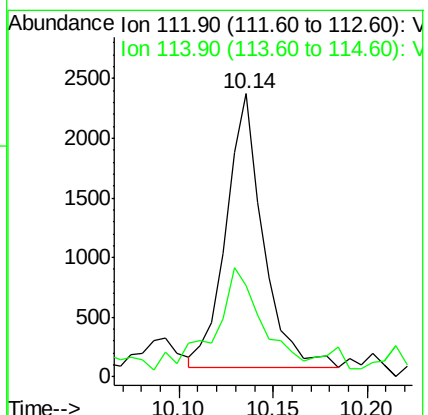
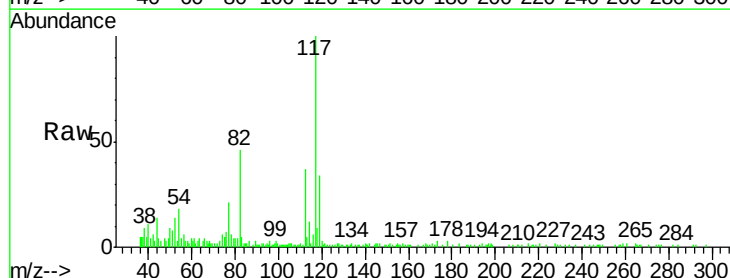
Manual Integrations  
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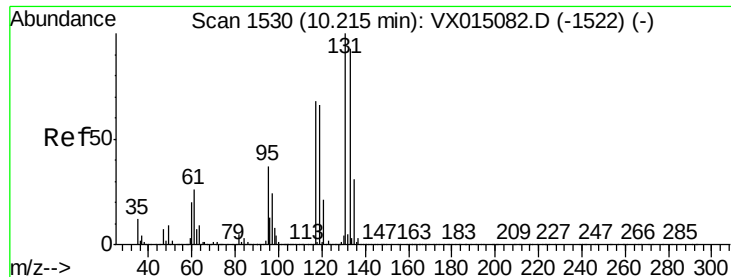
MMDadoda  
3/5/2020 3:54:01 PM



#65  
Chlorobenzene  
Concen: 0.297 ug/l  
RT: 10.14 min Scan# 1517  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 22.4  | 25.5  | 38.3# |





#66

1,1,1,2-Tetrachloroethane

Concen: 0.302 ug/l

RT: 10.22 min Scan# 1531

Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

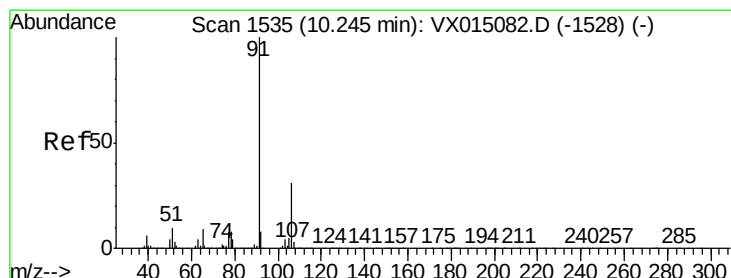
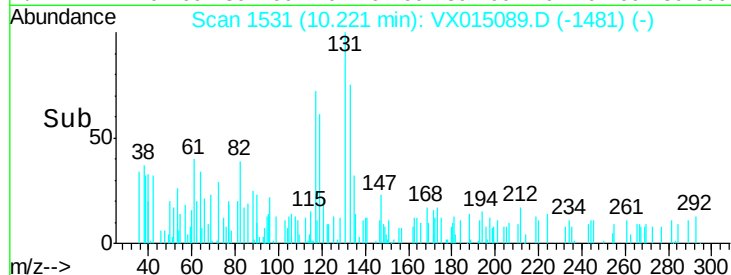
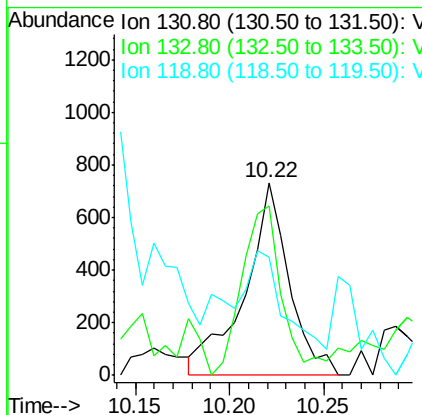
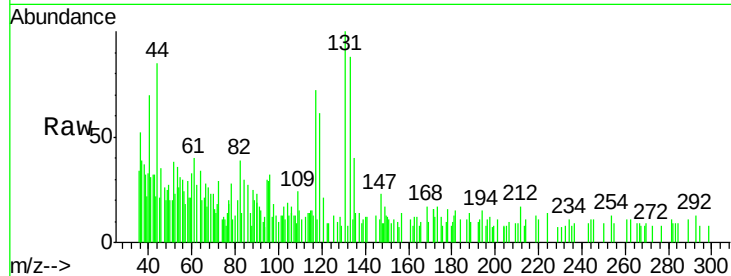
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 131     | 100   |       |        |
| 133     | 80.2  | 47.5  | 142.5  |
| 119     | 0.0   | 33.4  | 100.1# |

Manual Integrations  
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3/5/2020 3:54:01 PM



#67

Ethyl Benzene

Concen: 0.234 ug/l

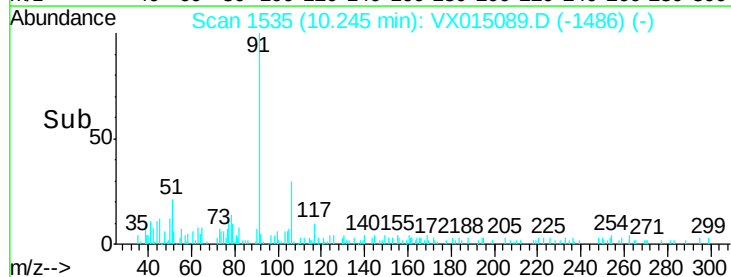
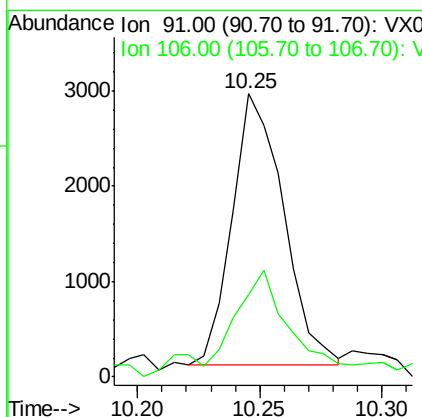
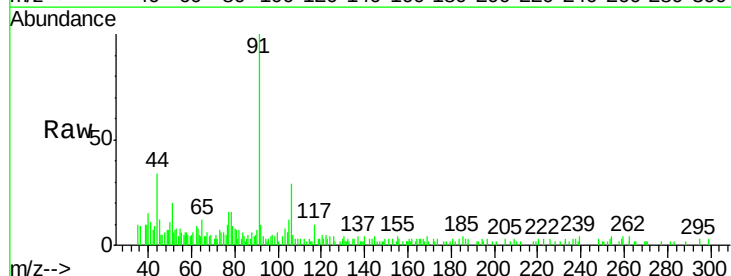
RT: 10.25 min Scan# 1535

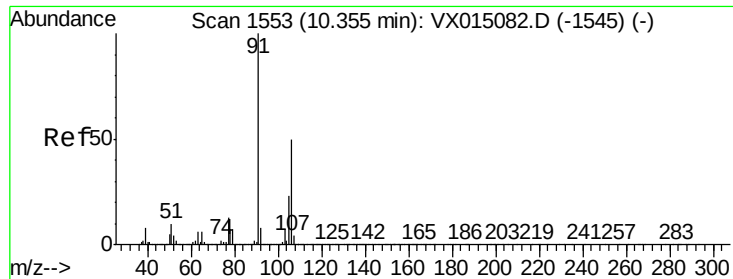
Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 25.2  | 24.9  | 37.3  |





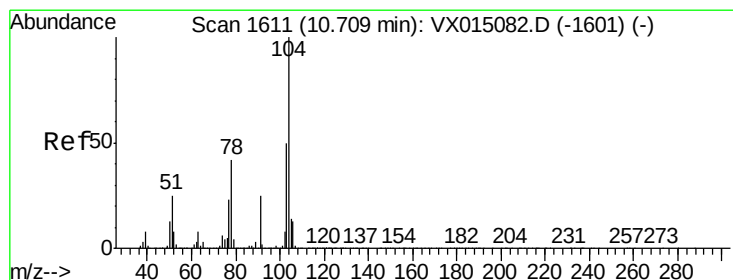
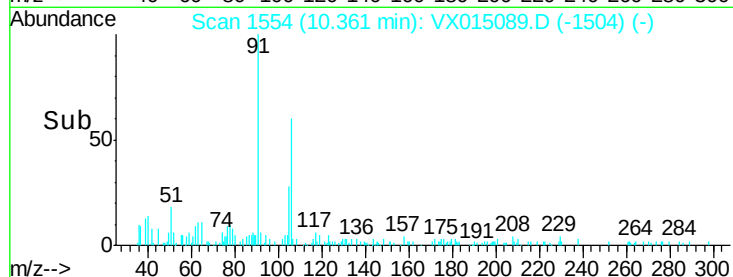
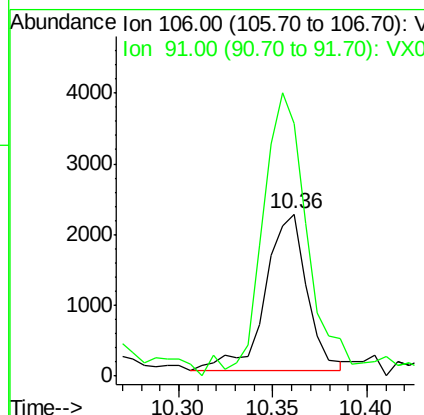
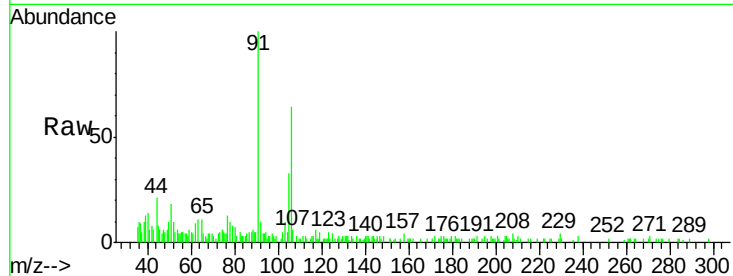
#68  
m/p-Xylenes  
Concen: 0.504 ug/l  
RT: 10.36 min Scan# 1554  
Delta R.T. 0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 195.1 | 159.4 | 239.2 |

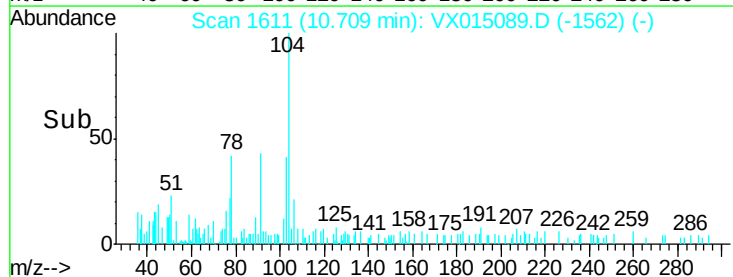
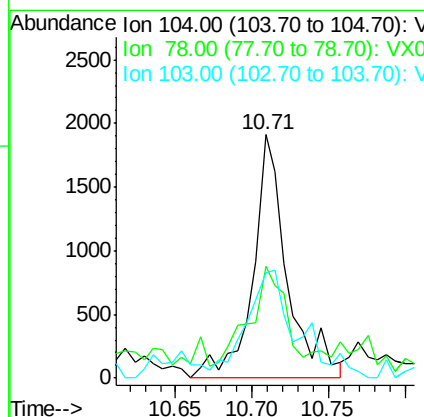
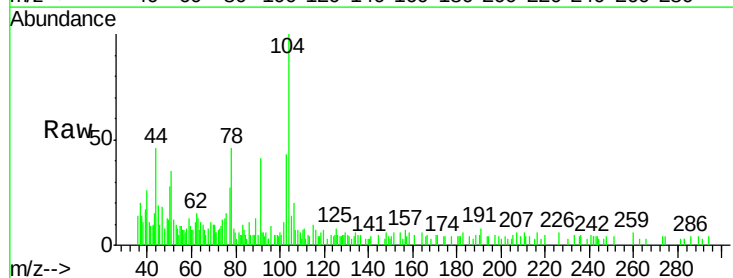
Manual Integrations  
APPROVED

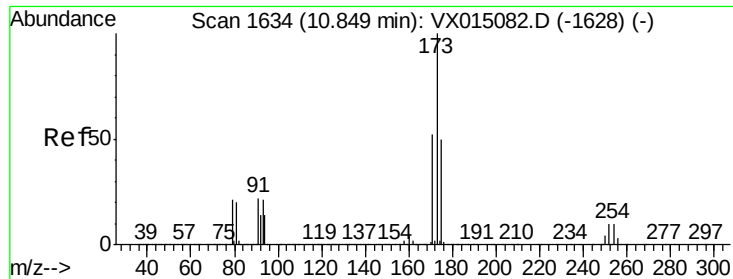
MMDadoda  
3/5/2020 3:54:01 PM



#70  
Styrene  
Concen: 0.269 ug/l  
RT: 10.71 min Scan# 1611  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 42.2  | 39.0  | 58.4  |
| 103     | 52.1  | 43.7  | 65.5  |





#71

Bromoform

Concen: 0.234 ug/l

RT: 10.86 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

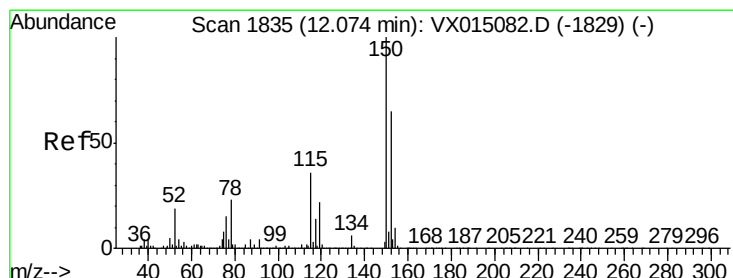
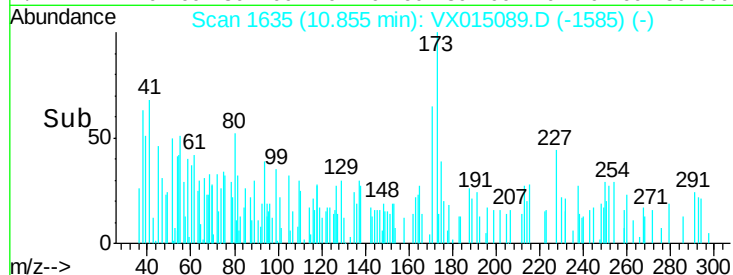
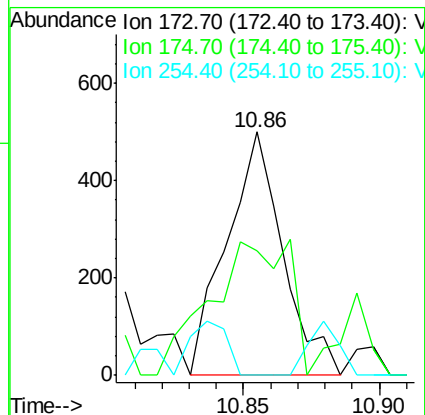
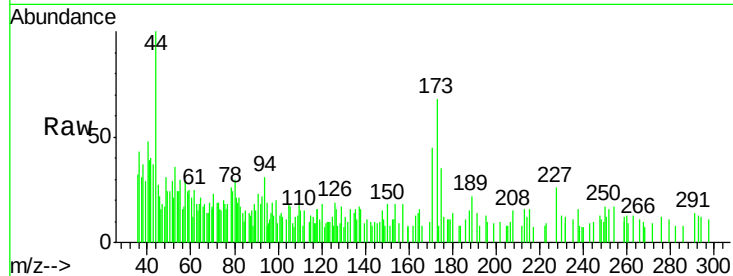
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 173   | Resp: | 718   |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 0.0   | 24.9  | 74.7# |
| 254       | 20.1  | 0.2   | 0.2#  |

Manual Integrations  
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3/5/2020 3:54:01 PM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

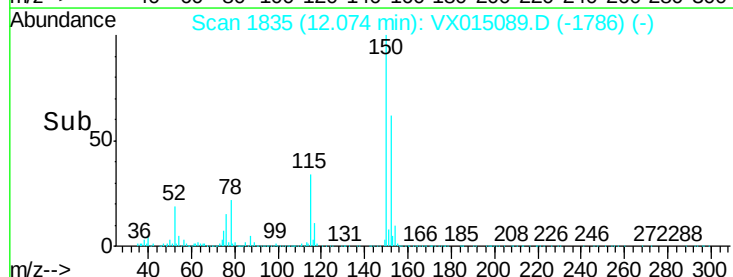
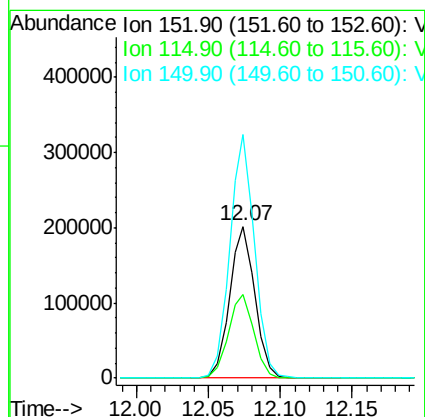
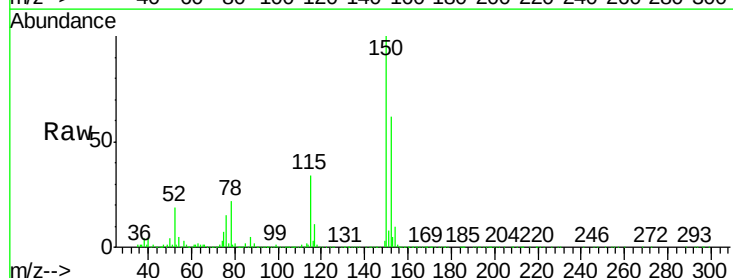
RT: 12.07 min Scan# 1835

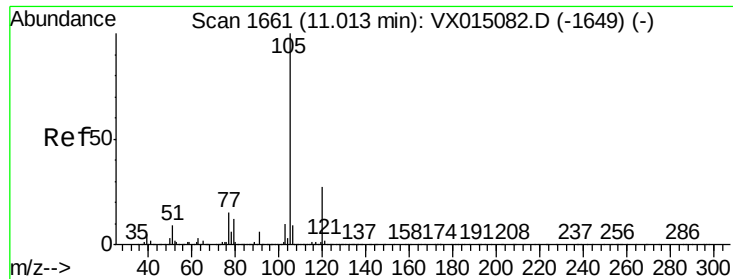
Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 248377 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 55.8  | 38.2  | 114.6  |
| 150       | 157.9 | 0.0   | 343.8  |





#73

Isopropylbenzene

Concen: 0.262 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:105 Resp: 4159

Ion Ratio Lower Upper

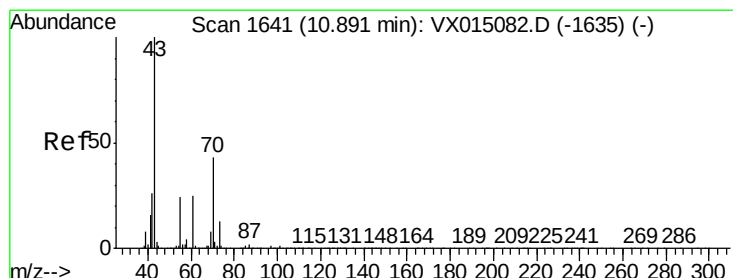
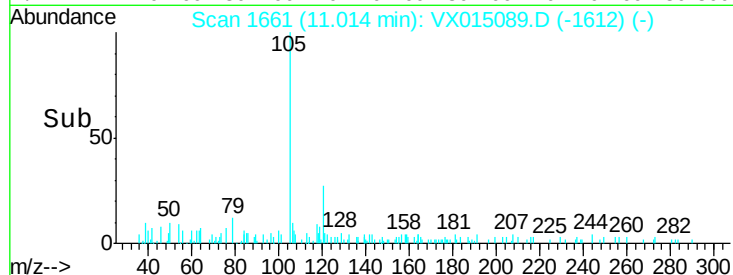
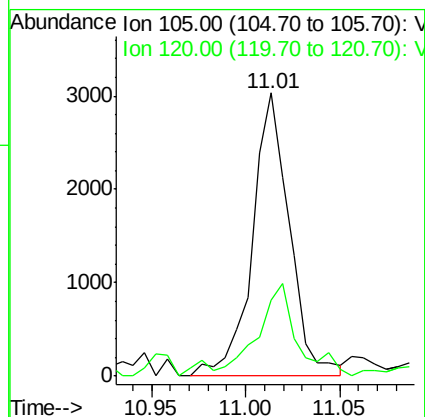
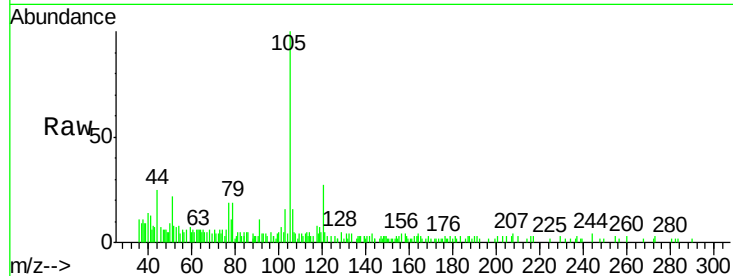
105 100

120 34.4 13.5 40.5

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MMDadoda

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#74

N-ethyl acetate

Concen: 0.282 ug/l

RT: 10.90 min Scan# 1642

Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Tgt Ion: 43 Resp: 1887

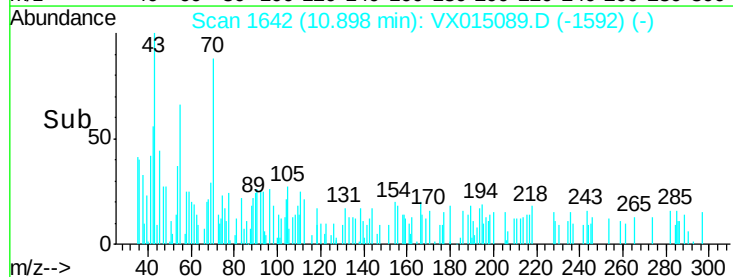
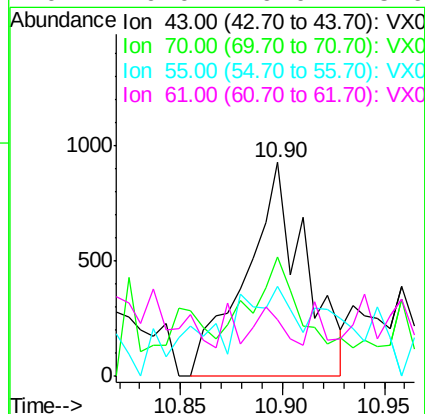
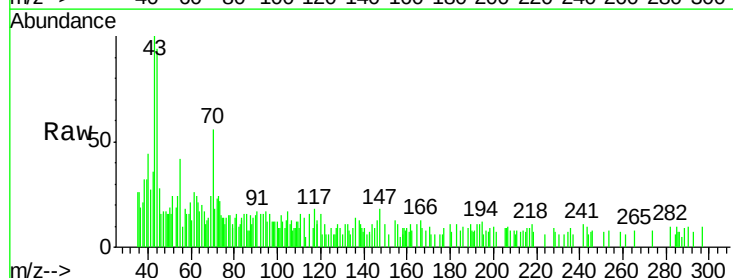
Ion Ratio Lower Upper

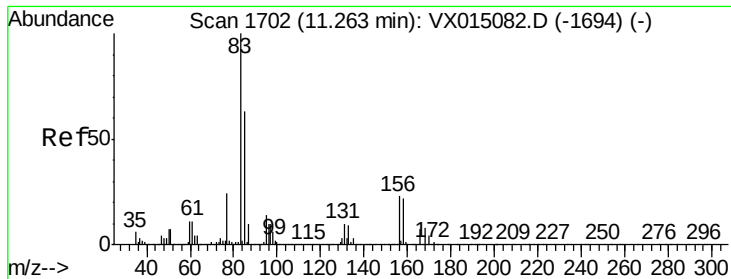
43 100

70 30.7 34.7 52.1#

55 24.4 19.4 29.0

61 0.0 19.0 28.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 0.353 ug/l

RT: 11.26 min Scan# 1702

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

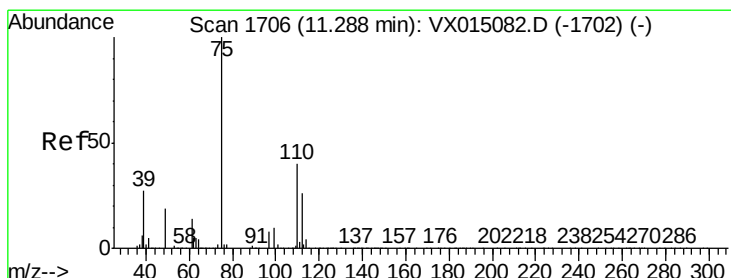
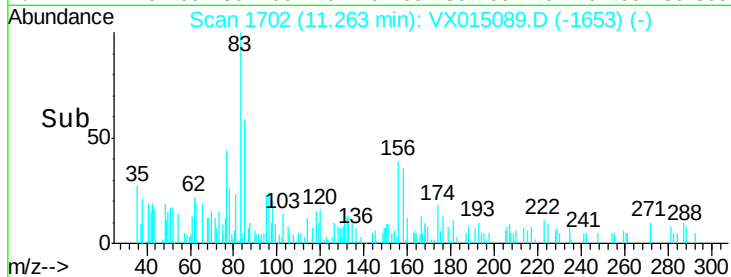
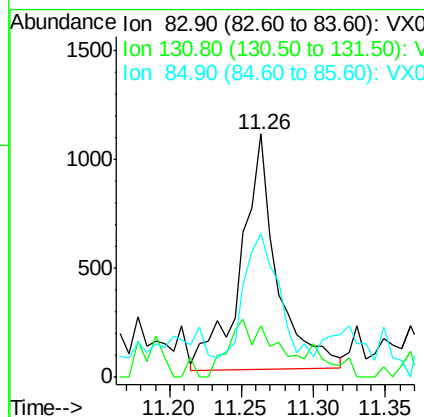
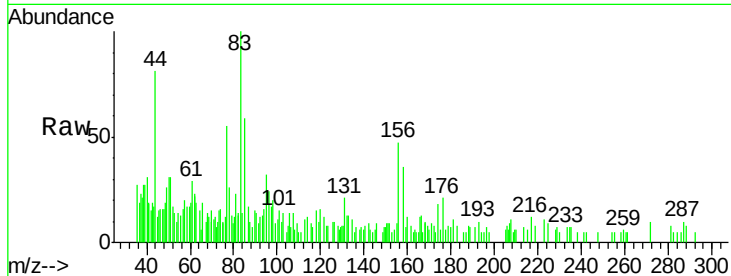
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 83    | Resp: | 1865  |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 131       | 32.8  | 5.0   | 14.9# |
| 85        | 49.1  | 31.9  | 95.9  |

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3/5/2020 3:54:01 PM



#76

1,2,3-Trichloropropane

Concen: 0.214 ug/l m

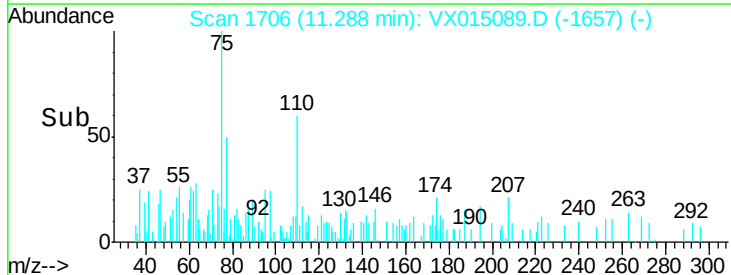
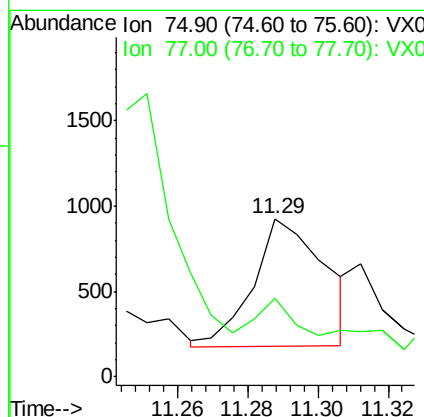
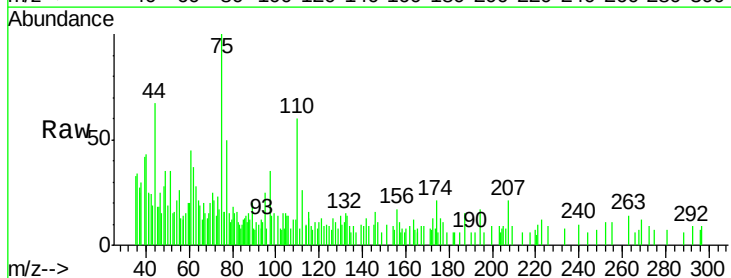
RT: 11.29 min Scan# 1706

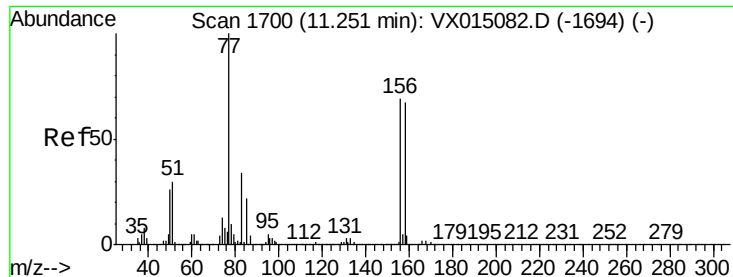
Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 1060  |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 77        | 134.6 | 22.6  | 67.8# |





#77

Bromobenzene

Concen: 0.388 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

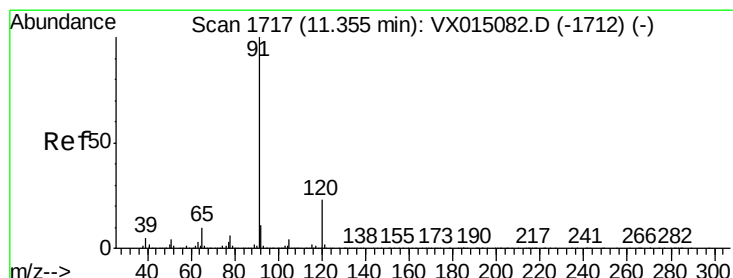
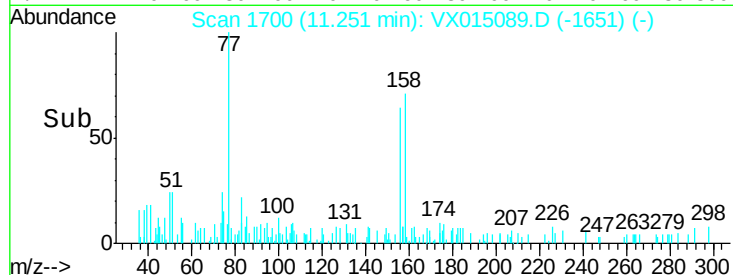
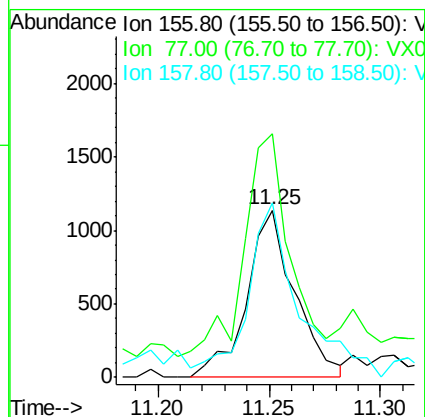
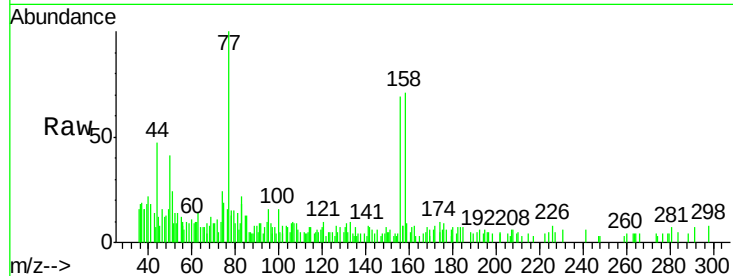
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 156   | Resp: | 1716  |
| Ion Ratio | Lower | Upper |       |
| 156       | 100   |       |       |
| 77        | 124.9 | 75.3  | 225.9 |
| 158       | 111.4 | 48.5  | 145.6 |

Manual Integrations  
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3/5/2020 3:54:01 PM



#78

n-propylbenzene

Concen: 0.278 ug/l

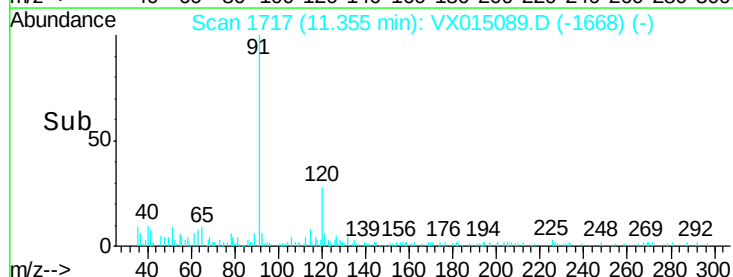
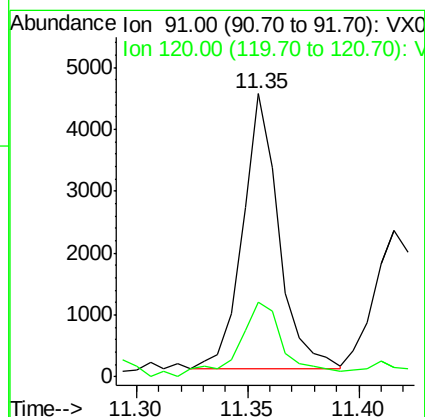
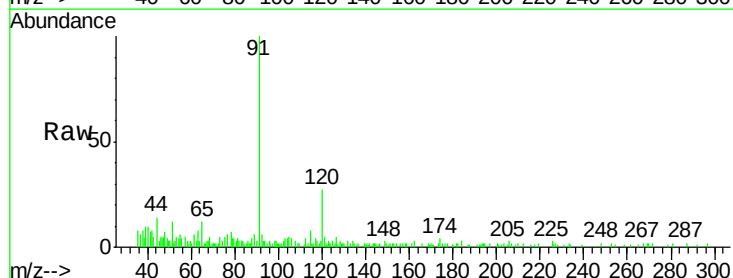
RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

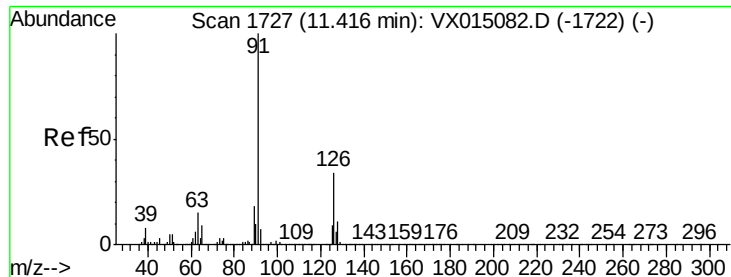
Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 91    | Resp: | 5037 |
| Ion Ratio | Lower | Upper |      |
| 91        | 100   |       |      |
| 120       | 34.3  | 11.7  | 35.1 |







#79

2-Chlorotoluene

Concen: 0.288 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 91 Resp: 3113

Ion Ratio Lower Upper

91 100

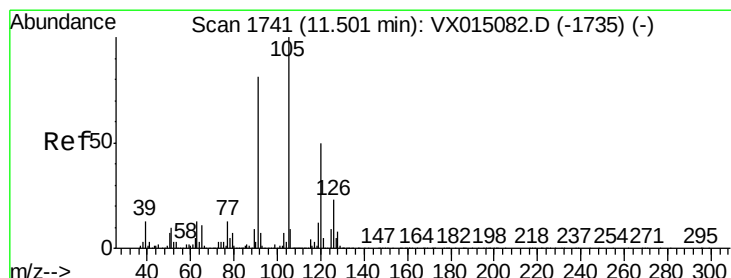
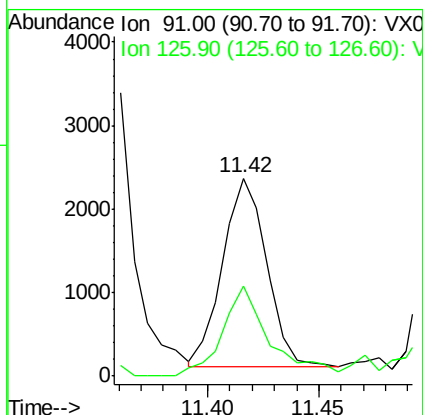
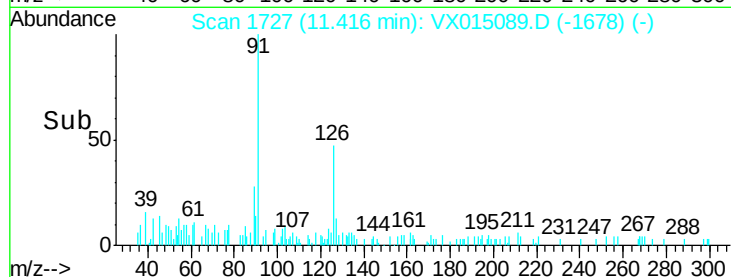
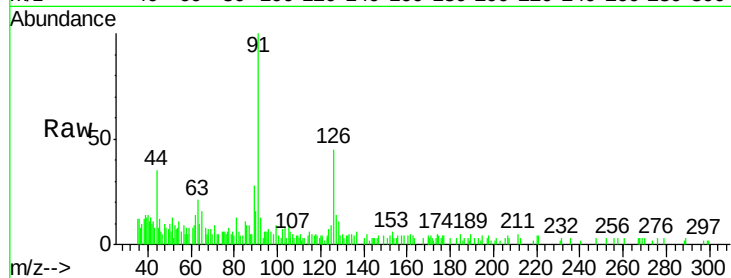
126 50.6 17.3 52.0

Manual Integrations

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MMDadoda

3/5/2020 3:54:01 PM



#80

1,3,5-Trimethylbenzene

Concen: 0.270 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX015089.D

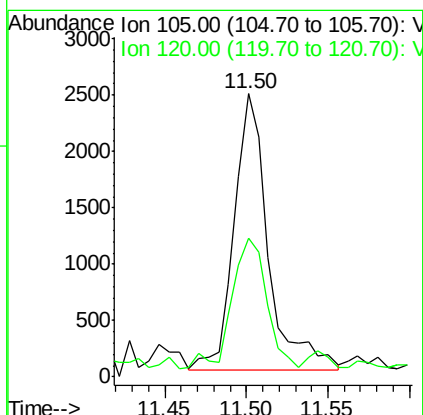
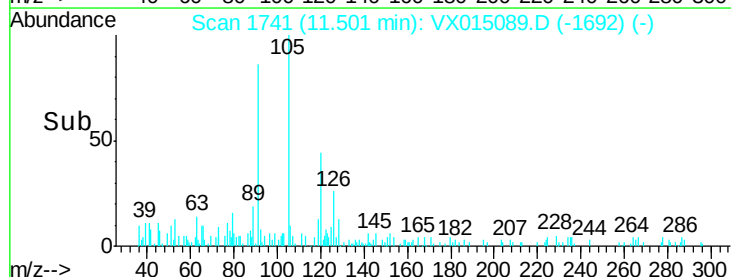
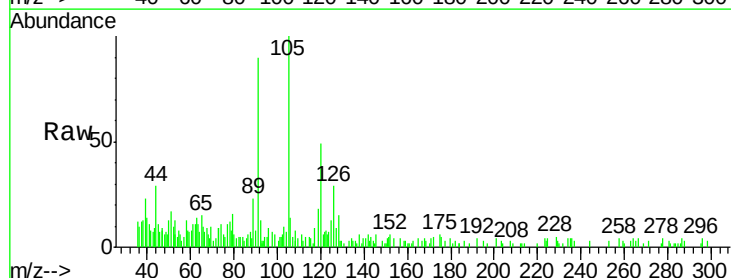
Acq: 04 Mar 2020 15:57

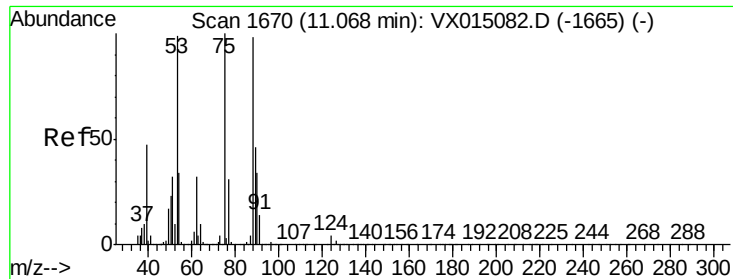
Tgt Ion: 105 Resp: 3563

Ion Ratio Lower Upper

105 100

120 49.5 25.1 75.4





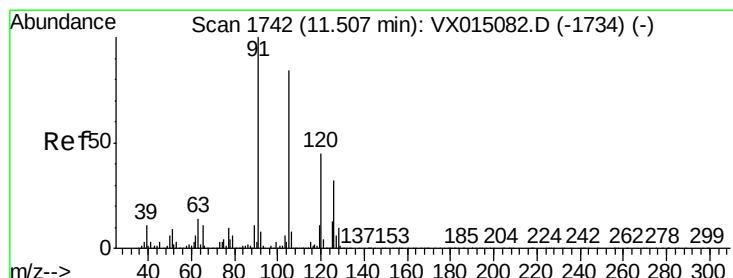
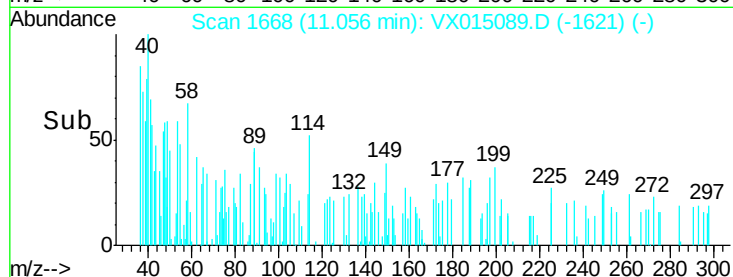
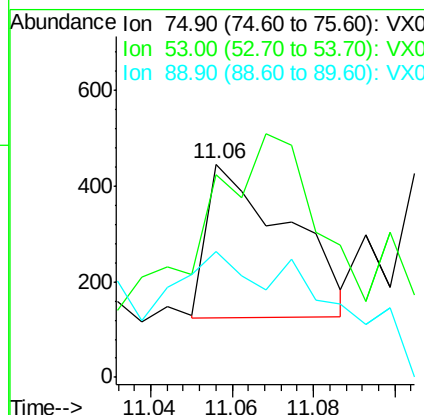
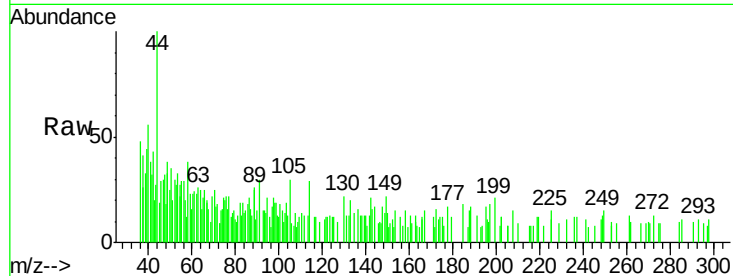
#81  
trans-1,4-Dichloro-2-butene  
Concen: 0.254 ug/l m  
RT: 11.06 min Scan# 1668  
Delta R.T. -0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 53      | 32.7  | 77.9  | 116.9# |
| 89      | 62.4  | 36.2  | 54.2#  |

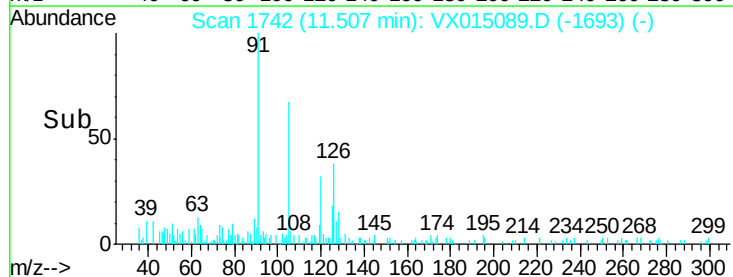
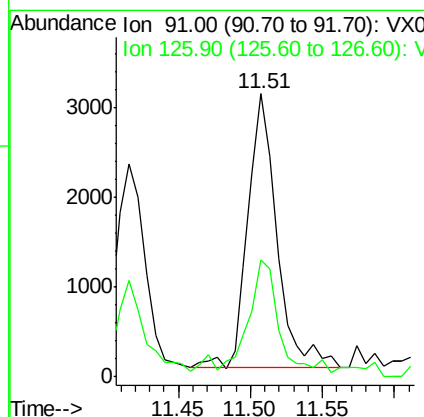
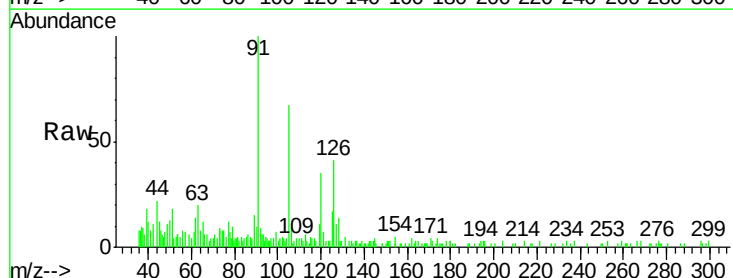
Manual Integrations  
APPROVED

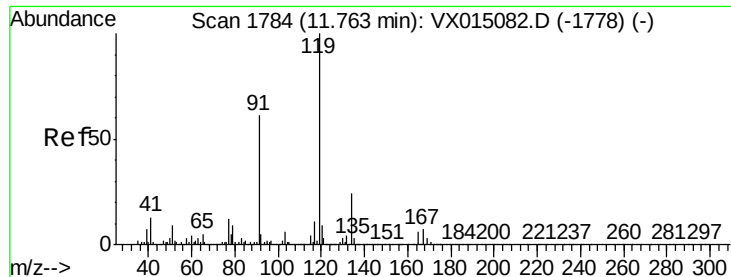
MMDadoda  
3/5/2020 3:54:01 PM



#82  
4-Chlorotoluene  
Concen: 0.336 ug/l  
RT: 11.51 min Scan# 1742  
Delta R.T. 0.00 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 39.1  | 15.4  | 46.2  |





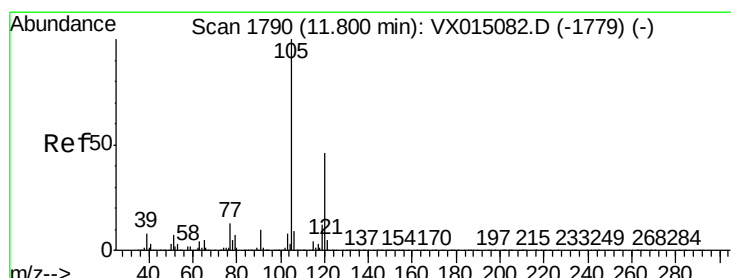
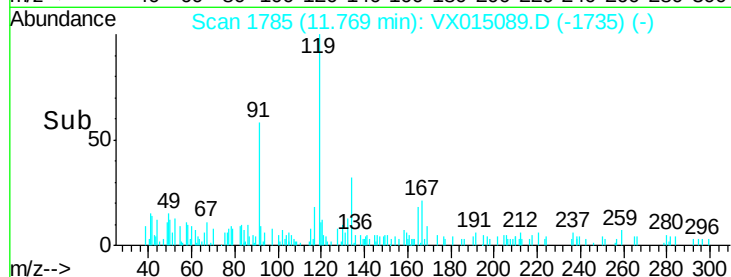
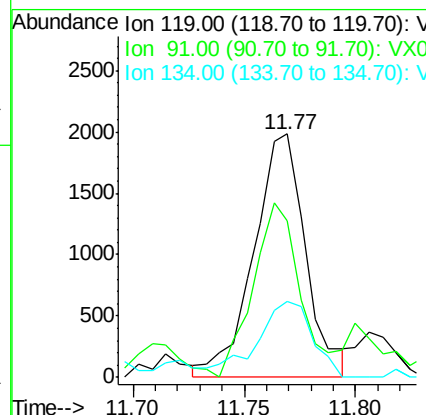
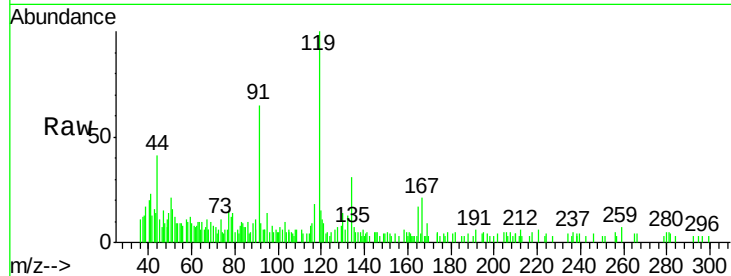
#83  
tert-Butylbenzene  
Concen: 0.252 ug/l  
RT: 11.77 min Scan# 1785  
Delta R.T. 0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

Instrument :  
MSVOA\_X  
ClientSampleId :  
LOD-MDL-WATER-01-QT1-2020

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 119   | Resp: | 3217 |
| Ion Ratio | Lower | Upper |      |
| 119       | 100   |       |      |
| 91        | 64.2  | 28.5  | 85.6 |
| 134       | 33.3  | 11.9  | 35.7 |

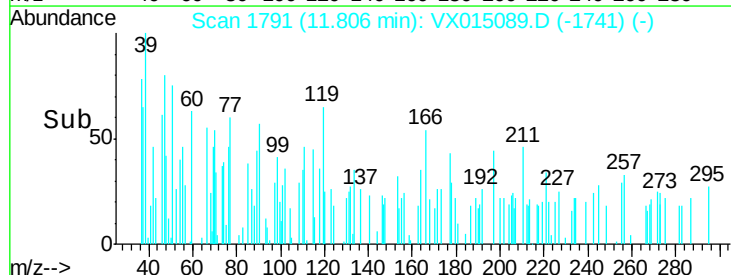
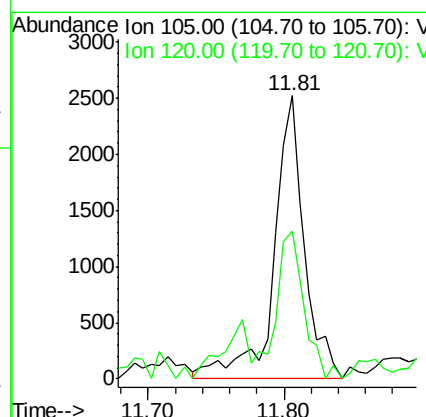
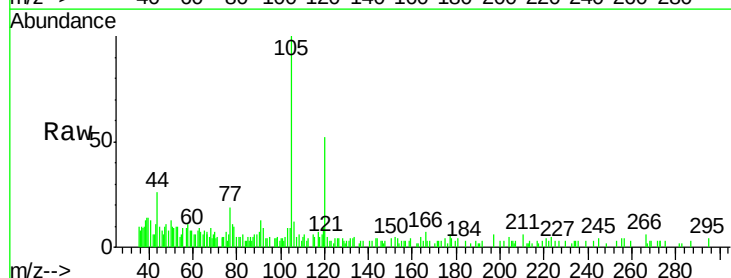
Manual Integrations  
APPROVED

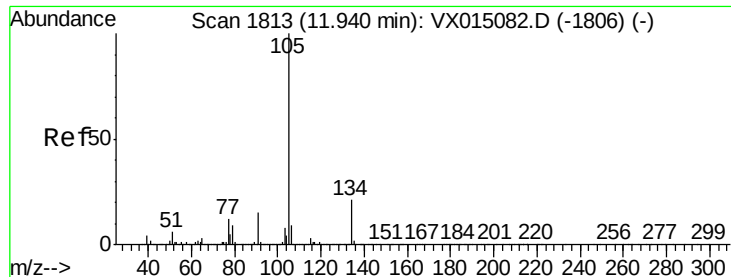
MMDadoda  
3/5/2020 3:54:01 PM



#84  
1,2,4-Trimethylbenzene  
Concen: 0.297 ug/l  
RT: 11.81 min Scan# 1791  
Delta R.T. 0.01 min  
Lab File: VX015089.D  
Acq: 04 Mar 2020 15:57

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 3940 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 43.6  | 22.9  | 68.5 |





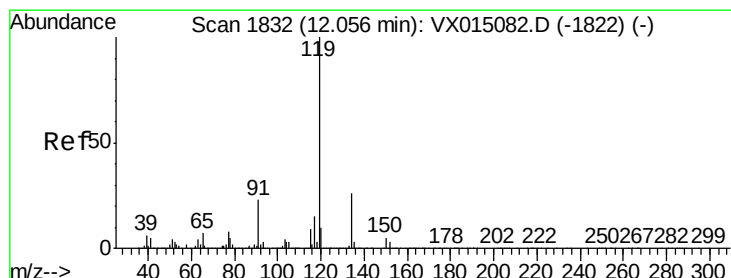
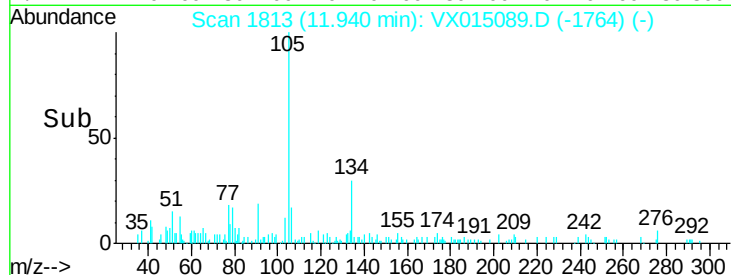
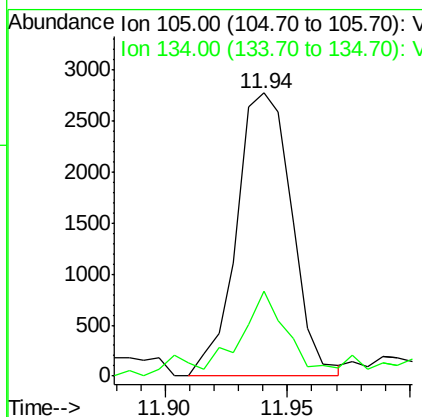
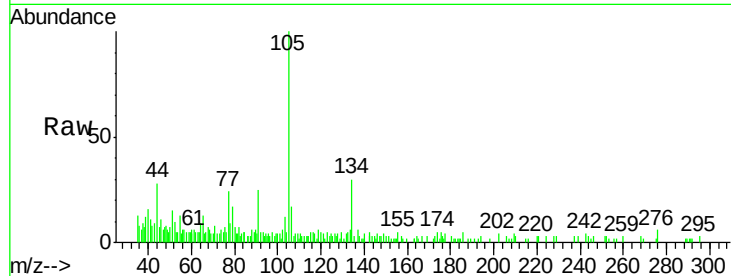
#85  
 sec-Butylbenzene  
 Concen: 0.284 ug/l  
 RT: 11.94 min Scan# 1813  
 Delta R.T. 0.00 min  
 Lab File: VX015089.D  
 Acq: 04 Mar 2020 15:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 20.8  | 10.4  | 31.2  |

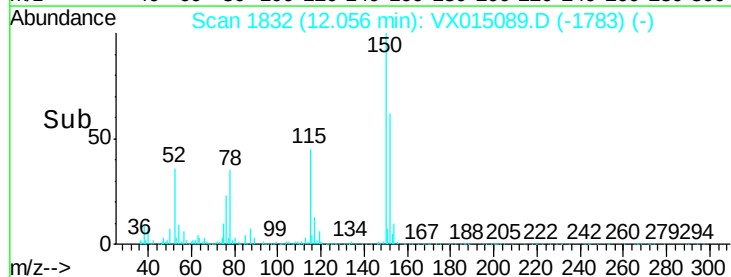
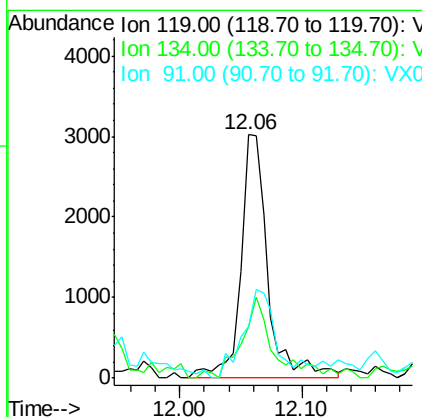
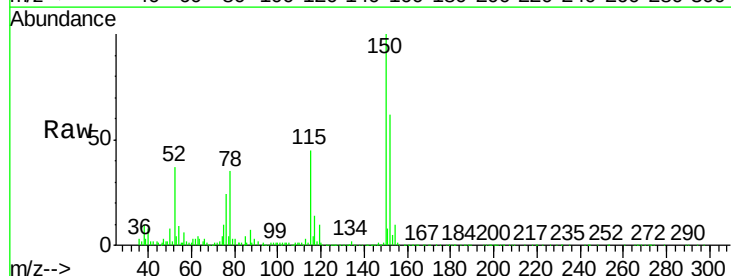
Manual Integrations  
 APPROVED

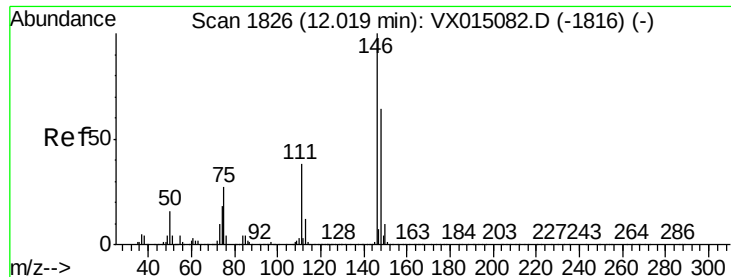
MMDadoda  
 3/5/2020 3:54:01 PM



#86  
 p-Isopropyltoluene  
 Concen: 0.326 ug/l  
 RT: 12.06 min Scan# 1832  
 Delta R.T. 0.00 min  
 Lab File: VX015089.D  
 Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 41.8  | 13.4  | 40.1# |
| 91      | 41.8  | 11.3  | 33.8# |





#87

1,3-Dichlorobenzene

Concen: 0.463 ug/l

RT: 12.02 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

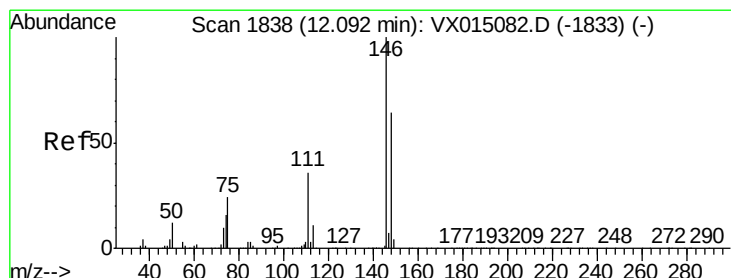
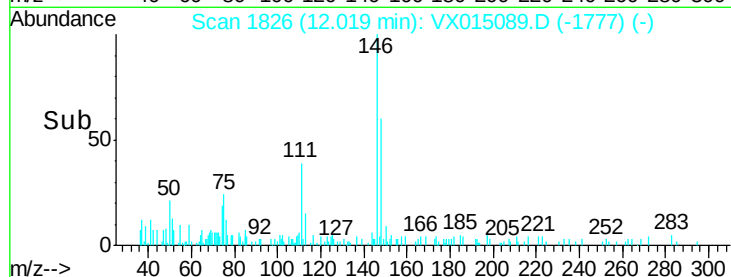
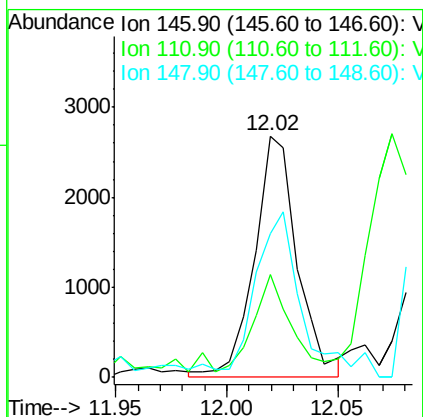
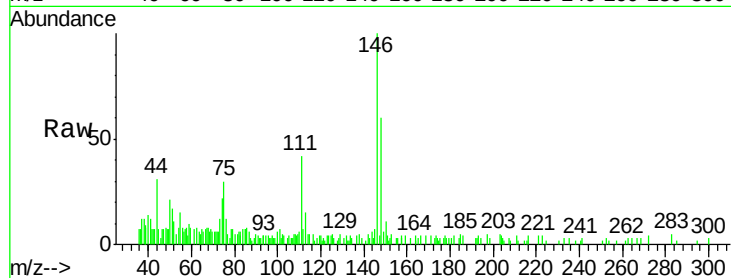
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 146   | Resp: | 3599 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 35.1  | 19.1  | 57.1 |
| 148       | 74.2  | 31.9  | 95.5 |

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3/5/2020 3:54:01 PM



#88

1,4-Dichlorobenzene

Concen: 0.531 ug/l m

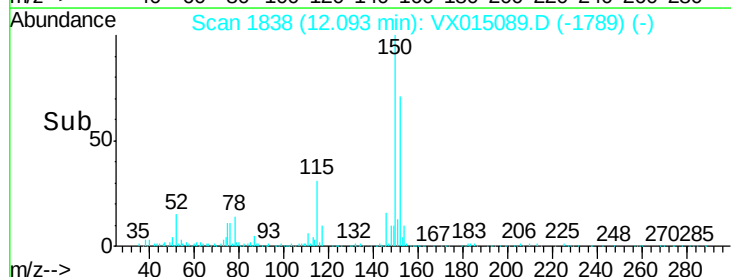
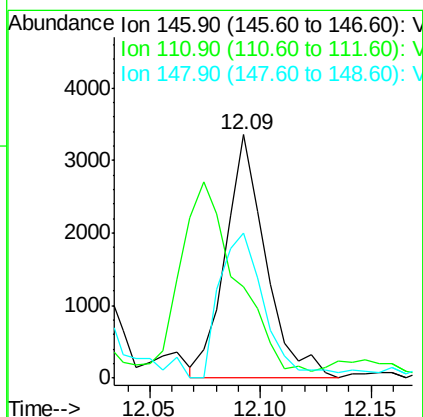
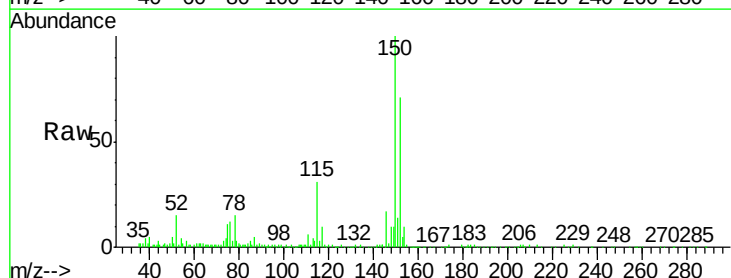
RT: 12.09 min Scan# 1838

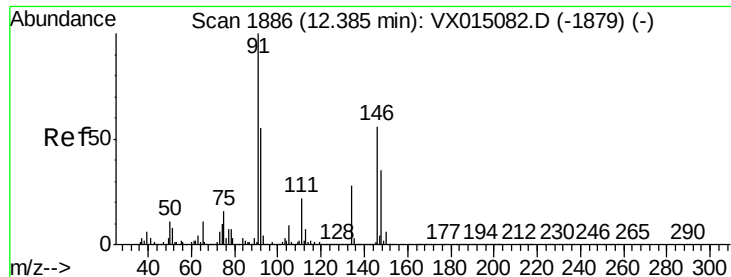
Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 146   | Resp: | 4265 |
| Ion Ratio | Lower | Upper |      |
| 146       | 100   |       |      |
| 111       | 29.6  | 18.7  | 56.1 |
| 148       | 62.6  | 32.5  | 97.4 |





#89

n-Butylbenzene

Concen: 0.409 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

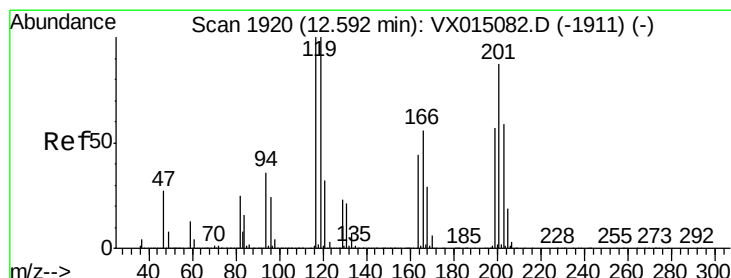
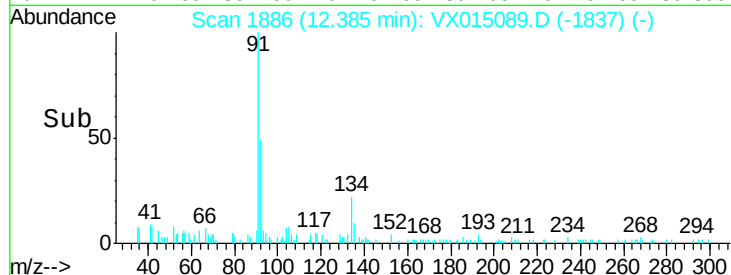
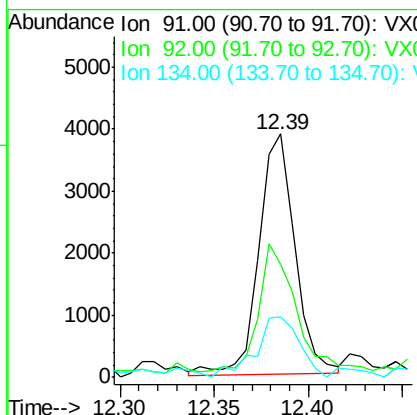
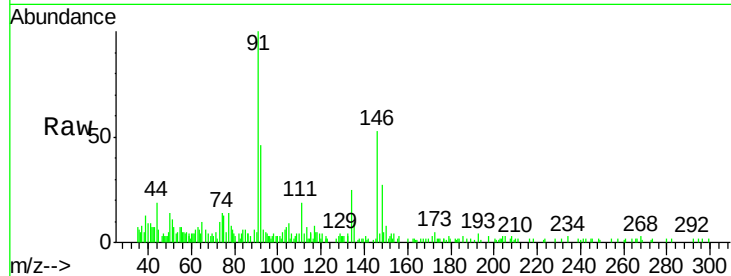
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 91    | Resp: | 5161  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 58.3  | 27.2  | 81.6  |
| 134      | 30.6  | 13.5  | 40.5  |

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3/5/2020 3:54:01 PM



#90

Hexachloroethane

Concen: 0.210 ug/l

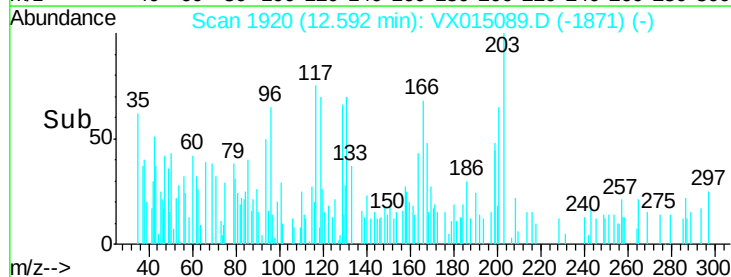
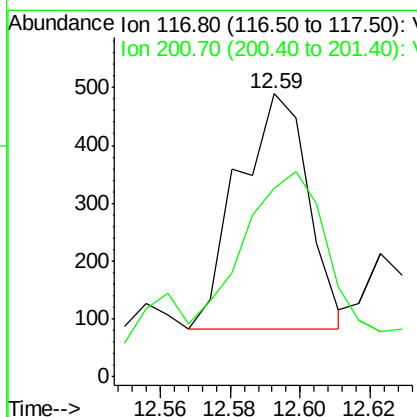
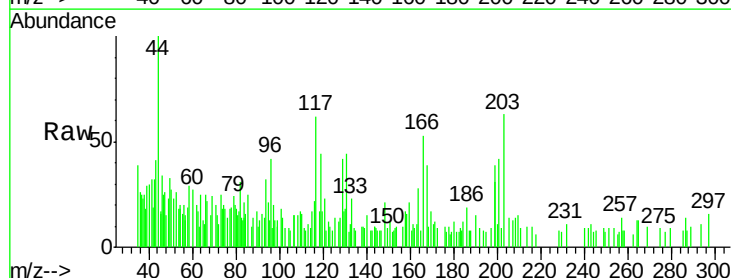
RT: 12.59 min Scan# 1920

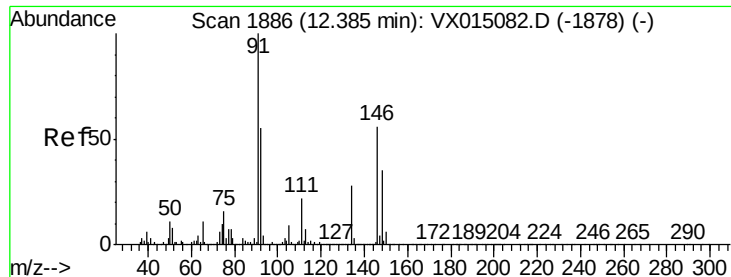
Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 563   |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 201      | 123.6 | 43.5  | 130.7 |





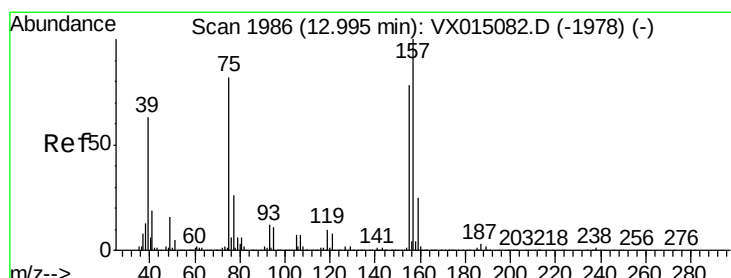
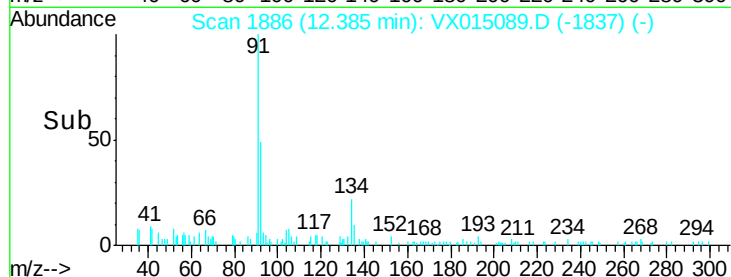
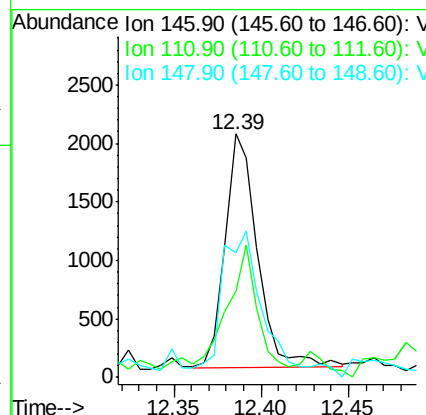
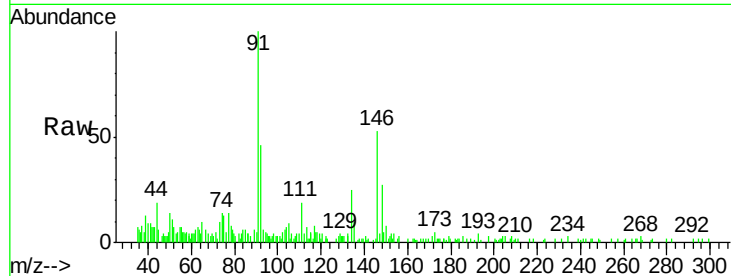
#91  
 1,2-Dichlorobenzene  
 Concen: 0.333 ug/l  
 RT: 12.39 min Scan# 1886  
 Delta R.T. 0.00 min  
 Lab File: VX015089.D  
 Acq: 04 Mar 2020 15:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 50.5  | 19.9  | 59.7  |
| 148     | 81.6  | 32.3  | 96.8  |

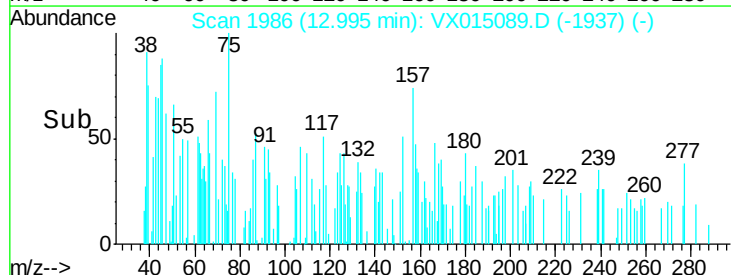
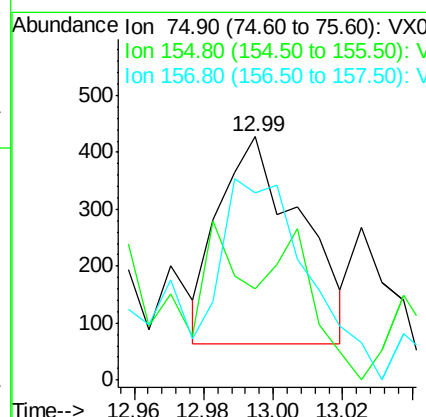
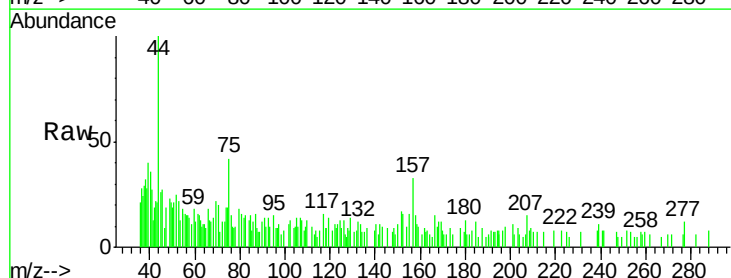
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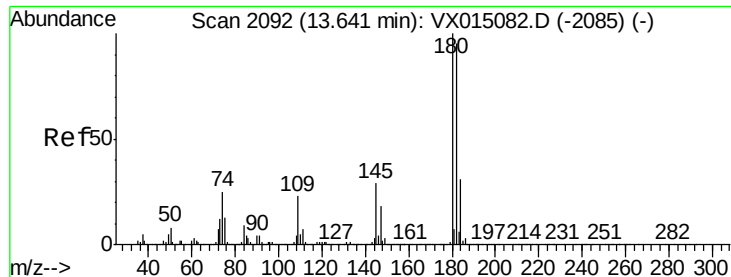
MMDadoda  
 3/5/2020 3:54:01 PM



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 0.563 ug/l m  
 RT: 12.99 min Scan# 1986  
 Delta R.T. 0.00 min  
 Lab File: VX015089.D  
 Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 20.3  | 46.6  | 139.7# |
| 157     | 16.3  | 59.2  | 177.5# |





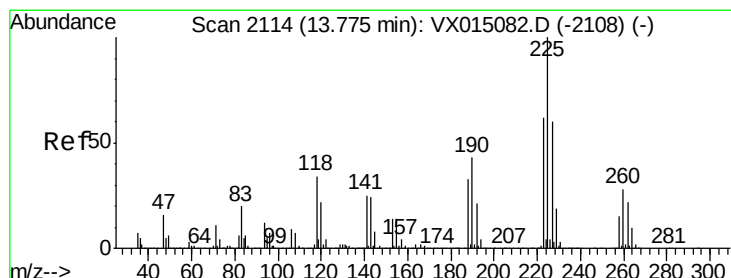
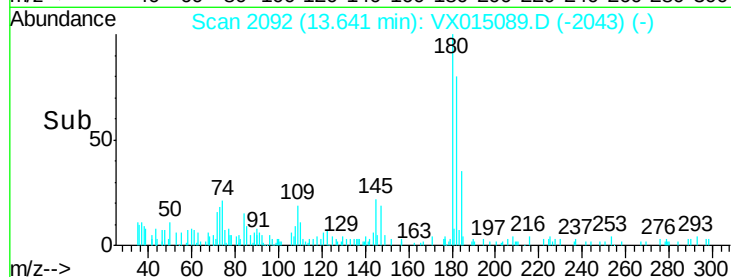
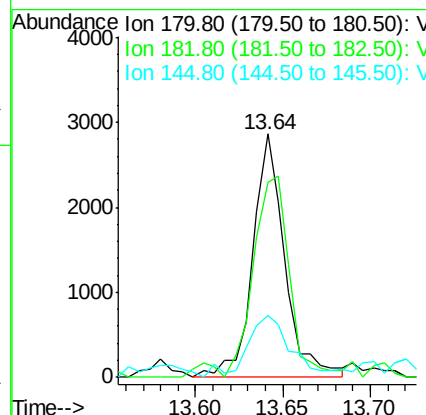
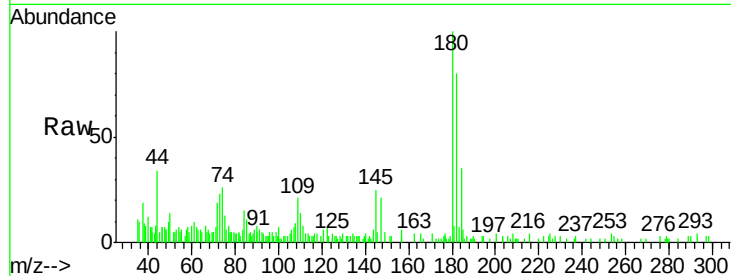
#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.681 ug/l  
 RT: 13.64 min Scan# 2092  
 Delta R.T. 0.00 min  
 Lab File: VX015089.D  
 Acq: 04 Mar 2020 15:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT1-2020

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 180     | 100   | 3655 |       |       |
| 182     | 92.5  | 47.6 | 142.8 |       |
| 145     | 34.6  | 14.1 | 42.2  |       |

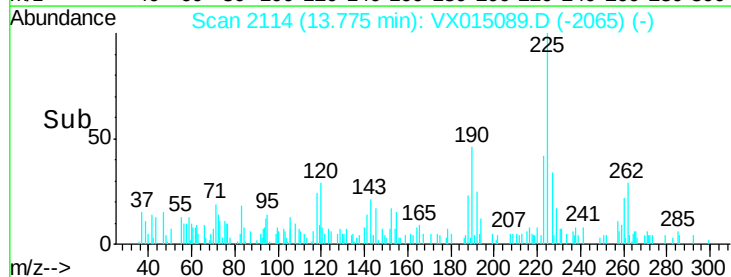
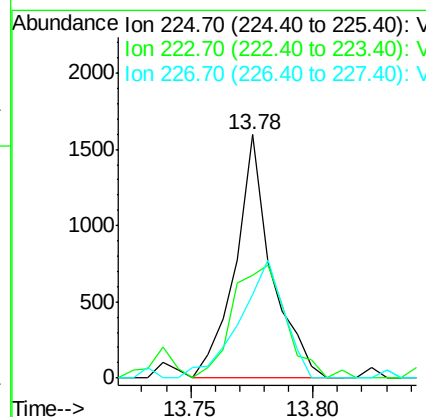
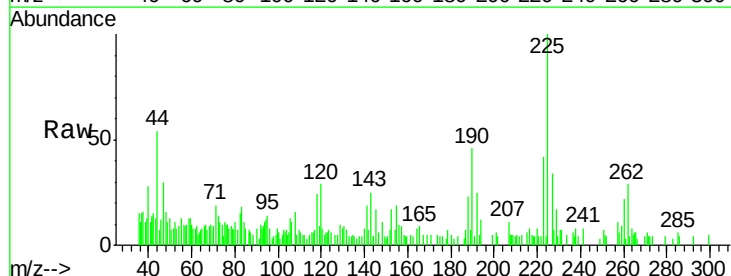
Manual Integrations  
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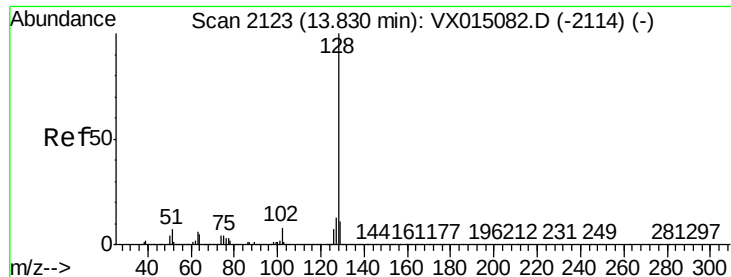


#94  
 Hexachlorobutadiene  
 Concen: 0.595 ug/l  
 RT: 13.78 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: VX015089.D  
 Acq: 04 Mar 2020 15:57

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 225     | 100   | 1639 |       |       |
| 223     | 69.2  | 31.3 | 93.9  |       |
| 227     | 59.9  | 31.1 | 93.2  |       |







#95

Naphthalene

Concen: 0.471 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

Instrument :

MSVOA\_X

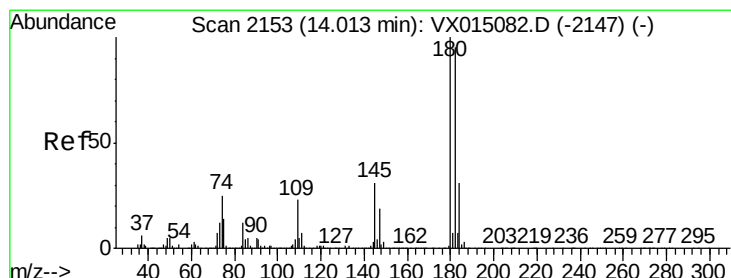
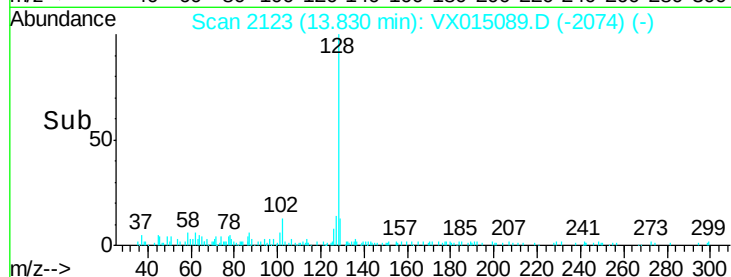
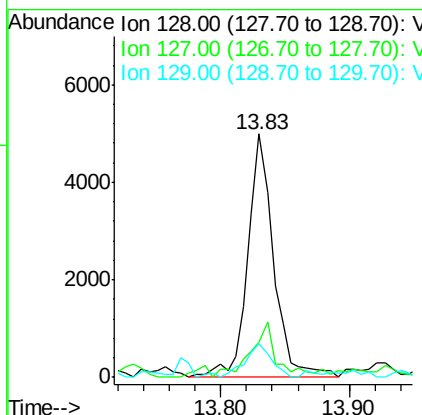
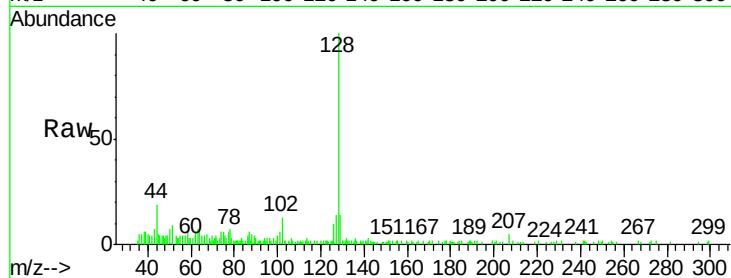
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 6902  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 22.4  | 10.3  | 15.5# |
| 129       | 14.1  | 8.6   | 13.0# |

Manual Integrations  
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3/5/2020 3:54:01 PM



#96

1,2,3-Trichlorobenzene

Concen: 0.619 ug/l

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX015089.D

Acq: 04 Mar 2020 15:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 3314  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 85.5  | 47.8  | 143.4 |
| 145       | 29.3  | 15.1  | 45.3  |

