

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112020\  
 Data File : VX019473.D  
 Acq On : 19 Nov 2020 18:08  
 Operator : JC/MD  
 Sample : VSTDICV020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112020

Manual Integrations  
 APPROVED

MMDadoda  
 11/20/2020 12:25:11 PM

Quant Time: Nov 20 01:58:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Nov 20 01:06:02 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 4.98  | 128  | 48640    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.83  | 114  | 270312   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.10 | 117  | 252745   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.03   | 65    | 105905   | 30.29    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 91 - 110 | Recovery | =    | 100.97% |
| 60) 4-Bromofluorobenzene  | 11.12  | 95    | 125162   | 30.36    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 63 - 112 | Recovery | =    | 101.20% |
| 63) Toluene-d8            | 8.70   | 98    | 332638   | 29.53    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 91 - 112 | Recovery | =    | 98.43%  |

## Target Compounds

|                               |      |     |        |         | Ovalue     |
|-------------------------------|------|-----|--------|---------|------------|
| 2) Dichlorodifluoromethane    | 1.18 | 85  | 50311  | 18.609  | ug/l 99    |
| 3) Chloromethane              | 1.31 | 50  | 59246  | 19.709  | ug/l 99    |
| 4) Vinyl Chloride             | 1.39 | 62  | 62264  | 18.794  | ug/l 96    |
| 5) Bromomethane               | 1.62 | 94  | 26141  | 20.721  | ug/l 99    |
| 6) Chloroethane               | 1.70 | 64  | 19066  | 20.241  | ug/l 99    |
| 7) Trichlorofluoromethane     | 1.90 | 101 | 85885  | 18.195  | ug/l 99    |
| 8) Diethyl Ether              | 2.17 | 74  | 34991  | 18.171  | ug/l 98    |
| 9) 1,1,2-Trichlorotrifluoroet | 2.36 | 101 | 48336  | 18.084  | ug/l 99    |
| 10) 1,1-Dichloroethene        | 2.35 | 96  | 48808  | 18.125  | ug/l 94    |
| 11) Methyl Iodide             | 2.48 | 142 | 53590  | 15.711  | ug/l 99    |
| 12) Methyl Acetate            | 2.75 | 43  | 61729  | 19.118  | ug/l 95    |
| 13) Acrolein                  | 2.28 | 56  | 42879  | 88.813  | ug/l 100   |
| 14) Acrylonitrile             | 3.12 | 53  | 151227 | 96.024  | ug/l 100   |
| 15) Acetone                   | 2.43 | 58  | 42078  | 92.013  | ug/l 94    |
| 16) Carbon Disulfide          | 2.54 | 76  | 140238 | 19.675  | ug/l 98    |
| 17) Allyl chloride            | 2.70 | 41  | 76266  | 18.840  | ug/l 96    |
| 18) Methylene Chloride        | 2.83 | 84  | 59572  | 18.291  | ug/l 95    |
| 19) trans-1,2-Dichloroethene  | 3.14 | 96  | 57341  | 19.066  | ug/l 91    |
| 20) Diisopropyl ether         | 3.82 | 45  | 161725 | 18.606  | ug/l 96    |
| 21) 1,1-Dichloroethane        | 3.67 | 63  | 96657  | 18.274  | ug/l 98    |
| 22) cis-1,2-Dichloroethene    | 4.56 | 96  | 65040  | 18.685  | ug/l 100   |
| 23) tert-Butyl Alcohol        | 3.04 | 59  | 69003  | 102.020 | ug/l # 100 |
| 24) Methyl tert-Butyl Ether   | 3.17 | 73  | 174261 | 18.821  | ug/l 100   |
| 25) Chloroform                | 5.17 | 83  | 102462 | 18.443  | ug/l 97    |
| 26) Cyclohexane               | 5.54 | 56  | 82970  | 18.324  | ug/l # 99  |
| 29) 1,1-Dichloropropene       | 5.76 | 75  | 75751  | 18.239  | ug/l 99    |
| 30) 2-Butanone                | 4.64 | 43  | 196712 | 93.759  | ug/l 99    |
| 31) 2,2-Dichloropropane       | 4.54 | 77  | 82513  | 17.675  | ug/l 99    |
| 32) 1,1,1-Trichloroethane     | 5.46 | 97  | 87233  | 17.903  | ug/l 99    |
| 33) Carbon Tetrachloride      | 5.75 | 117 | 73360  | 17.741  | ug/l 99    |
| 34) Benzene                   | 6.11 | 78  | 233345 | 18.083  | ug/l 99    |
| 35) Methacrylonitrile         | 5.00 | 41  | 41172  | 19.028  | ug/l 98    |
| 36) 1,2-Dichloroethane        | 6.16 | 62  | 79089  | 17.707  | ug/l 99    |
| 37) Trichloroethene           | 7.18 | 130 | 62092  | 18.150  | ug/l 99    |
| 38) Methylcyclohexane         | 7.43 | 83  | 89673  | 17.865  | ug/l 98    |
| 39) 1,2-Dichloropropane       | 7.49 | 63  | 58081  | 18.229  | ug/l 97    |
| 40) Dibromomethane            | 7.63 | 93  | 40815  | 18.416  | ug/l 99    |

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 ICVVX112020

Manual Integrations  
 APPROVED

MMDadoda  
 11/20/2020 12:25:11 PM

Quant Time: Nov 20 01:58:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Nov 20 01:06:02 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 41) Bromodichloromethane       | 7.87  | 83   | 76955    | 17.668  | ug/l  | 98       |
| 42) Vinyl Acetate              | 3.78  | 43   | 693360   | 91.876  | ug/l  | 99       |
| 43) Ethyl Acetate              | 4.79  | 43   | 75717    | 18.750  | ug/l  | 99       |
| 44) Isopropyl Acetate          | 6.42  | 43   | 120576   | 18.397  | ug/l  | 100      |
| 45) 1,4-Dioxane                | 7.72  | 88   | 28652    | 390.000 | ug/l  | 98       |
| 46) Methyl methacrylate        | 7.74  | 41   | 59688    | 18.607  | ug/l  | 96       |
| 47) n-amyl Acetate             | 10.88 | 43   | 100189   | 18.318  | ug/l  | 98       |
| 48) t-1,3-Dichloropropene      | 9.02  | 75   | 86640    | 18.319  | ug/l  | 98       |
| 49) cis-1,3-Dichloropropene    | 8.41  | 75   | 94676    | 18.122  | ug/l  | 98       |
| 50) 1,1,2-Trichloroethane      | 9.20  | 97   | 60494    | 18.226  | ug/l  | 95       |
| 51) Ethyl methacrylate         | 9.16  | 69   | 88364    | 18.603  | ug/l  | 99       |
| 52) 1,3-Dichloropropane        | 9.35  | 76   | 101429   | 18.298  | ug/l  | 98       |
| 53) Dibromochloromethane       | 9.56  | 129  | 60435    | 18.268  | ug/l  | 98       |
| 54) 1,2-Dibromoethane          | 9.65  | 107  | 63332    | 18.456  | ug/l  | 100      |
| 55) 2-Chloroethyl vinyl ether  | 8.29  | 63   | 245238   | 93.830  | ug/l  | 99       |
| 56) Bromoform                  | 10.84 | 173  | 41968    | 17.902  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone       | 8.62  | 43   | 379485   | 93.984  | ug/l  | 99       |
| 59) 2-Hexanone                 | 9.48  | 43   | 288550   | 92.654  | ug/l  | 99       |
| 61) Tetrachloroethene          | 9.32  | 164  | 59691    | 18.123  | ug/l  | 97       |
| 62) Toluene                    | 8.76  | 91   | 255193   | 18.051  | ug/l  | 99       |
| 64) Chlorobenzene              | 10.12 | 112  | 160685   | 18.662  | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane  | 10.20 | 131  | 56760    | 17.907  | ug/l  | 99       |
| 66) Ethyl Benzene              | 10.23 | 91   | 281133   | 18.149  | ug/l  | 96       |
| 67) m/p-Xylenes                | 10.34 | 106  | 215014   | 37.062  | ug/l  | 100      |
| 68) o-Xylene                   | 10.68 | 106  | 102913   | 18.715  | ug/l  | 98       |
| 69) Styrene                    | 10.70 | 104  | 173119   | 18.477  | ug/l  | 99       |
| 70) Isopropylbenzene           | 11.00 | 105  | 277074   | 18.587  | ug/l  | 99       |
| 71) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 92126    | 18.102  | ug/l  | 97       |
| 72) 1,2,3-Trichloropropane     | 11.28 | 75   | 84366m   | 18.440  | ug/l  |          |
| 73) Bromobenzene               | 11.24 | 156  | 68027    | 18.296  | ug/l  | 98       |
| 74) n-propylbenzene            | 11.34 | 91   | 321020   | 18.520  | ug/l  | 98       |
| 75) 2-Chlorotoluene            | 11.40 | 91   | 194106   | 18.677  | ug/l  | 100      |
| 76) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 232861   | 18.435  | ug/l  | 98       |
| 77) t-1,4-Dichloro-2-butene    | 11.06 | 75   | 28109    | 17.926  | ug/l  | 97       |
| 78) 4-Chlorotoluene            | 11.49 | 91   | 224952   | 18.518  | ug/l  | 100      |
| 79) tert-butylbenzene          | 11.76 | 119  | 222711   | 18.382  | ug/l  | 100      |
| 80) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 233131   | 18.366  | ug/l  | 100      |
| 81) sec-Butylbenzene           | 11.93 | 105  | 267053   | 18.362  | ug/l  | 99       |
| 82) p-Isopropyltoluene         | 12.05 | 119  | 241245   | 18.241  | ug/l  | 100      |
| 83) 1,3-Dichlorobenzene        | 12.01 | 146  | 123345   | 17.984  | ug/l  | 97       |
| 84) 1,4-Dichlorobenzene        | 12.08 | 146  | 130160   | 18.755  | ug/l  | 99       |
| 85) n-Butylbenzene             | 12.37 | 91   | 213543   | 17.694  | ug/l  | 99       |
| 86) Hexachloroethane           | 12.58 | 117  | 38038    | 17.088  | ug/l  | 97       |
| 87) 1,2-Dichlorobenzene        | 12.38 | 146  | 123490   | 18.210  | ug/l  | 99       |
| 88) 1,2-Dibromo-3-Chloropropan | 12.98 | 75   | 19232    | 17.979  | ug/l  | 99       |
| 89) 1,2,4-Trichlorobenzene     | 13.63 | 180  | 84871    | 18.752  | ug/l  | 98       |
| 90) Hexachlorobutadiene        | 13.76 | 225  | 36542    | 17.961  | ug/l  | 94       |
| 91) Naphthalene                | 13.82 | 128  | 268280   | 18.634  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene     | 14.00 | 180  | 83253    | 18.399  | ug/l  | 99       |

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Operator : JC/MD  
Sample : VSTDICV020  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

Manual Integrations  
APPROVED

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11/20/2020 12:25:11 PM

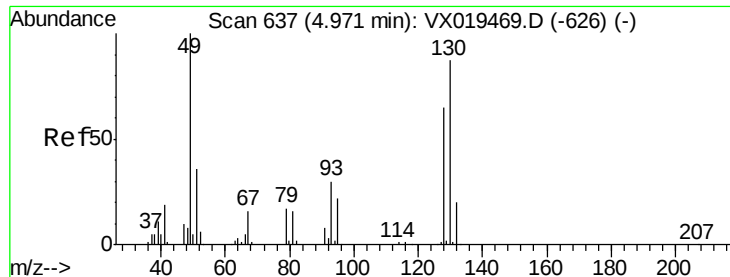
Quant Time: Nov 20 01:58:24 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X112020W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Nov 20 01:06:02 2020  
Response via : Initial Calibration

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

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





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 638

Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

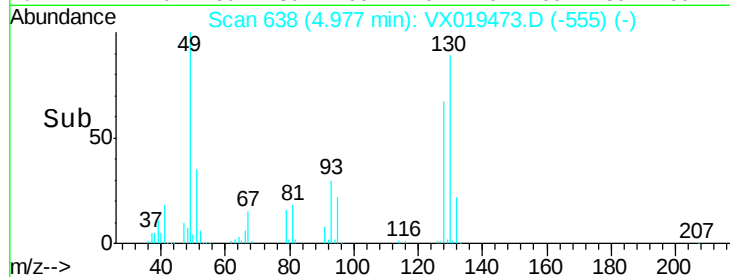
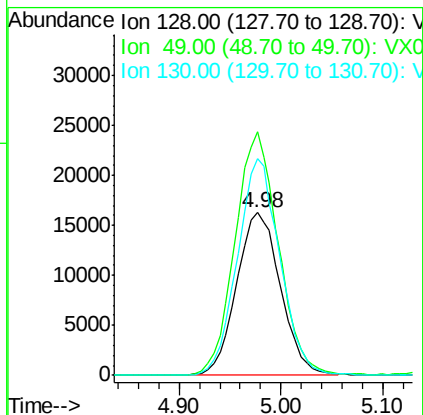
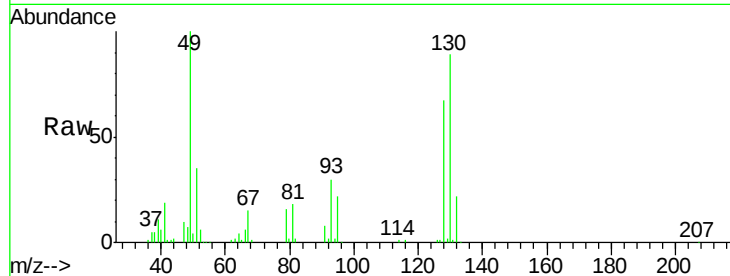
ClientSampleId :

ICVVX112020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 147.4 | 0.0   | 377.8 |
| 130     | 128.7 | 0.0   | 324.0 |

Manual Integrations  
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#2

Dichlorodifluoromethane

Concen: 18.609 ug/l

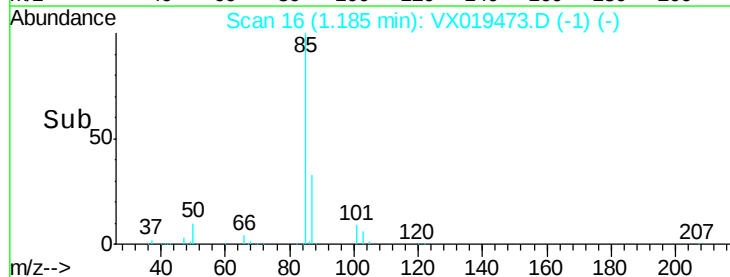
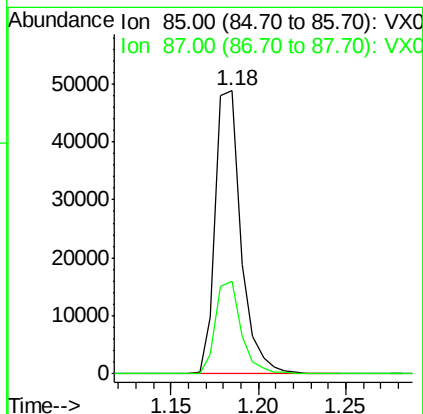
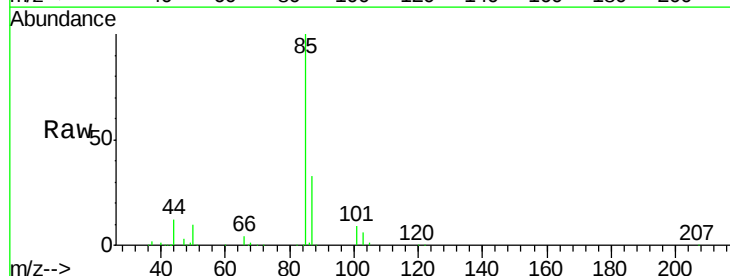
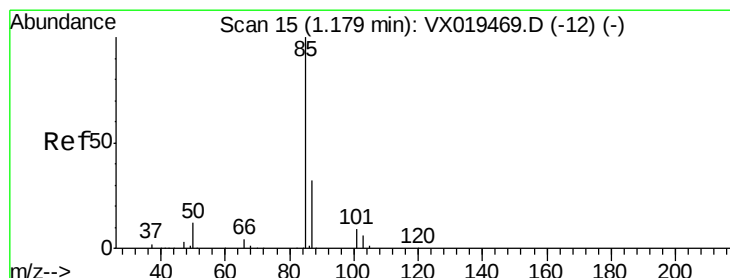
RT: 1.18 min Scan# 16

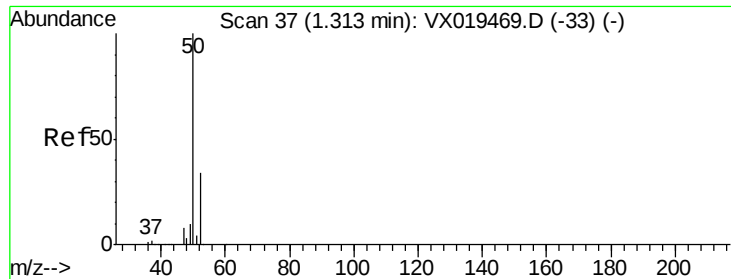
Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 32.7  | 16.0  | 47.9  |





#3

Chloromethane

Concen: 19.709 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX112020

Tot Ion: 50 Resp: 59246

Ion Ratio Lower Upper

50 100

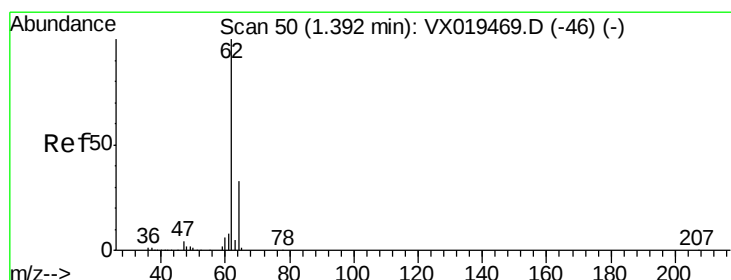
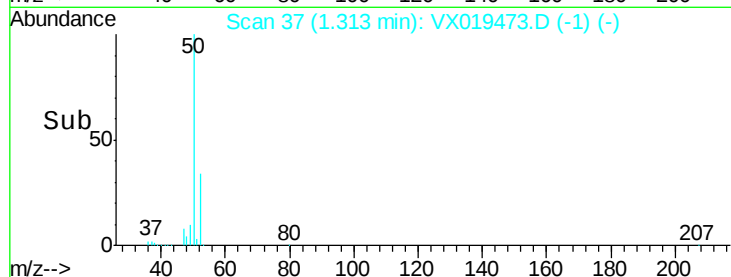
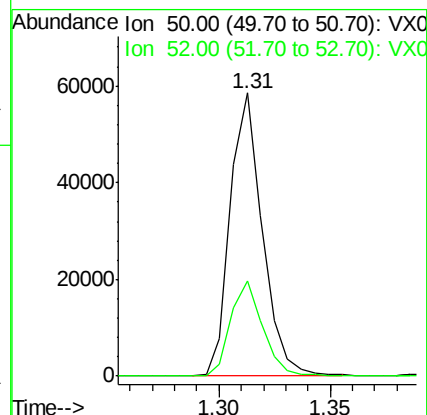
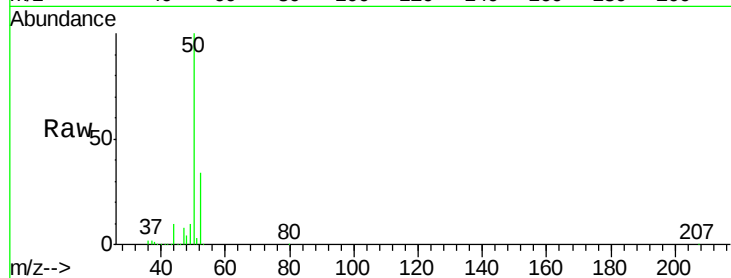
52 33.8 27.5 41.3

Manual Integrations

APPROVED

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11/20/2020 12:25:11 PM



#4

Vinyl Chloride

Concen: 18.794 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019473.D

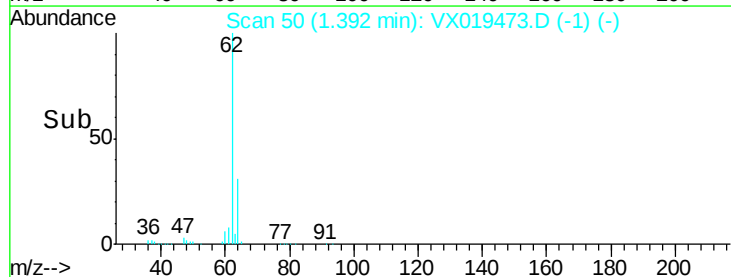
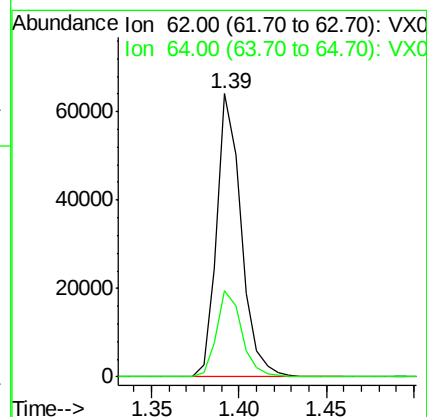
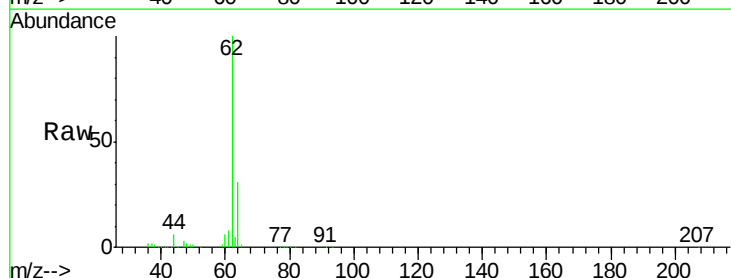
Acq: 19 Nov 2020 18:08

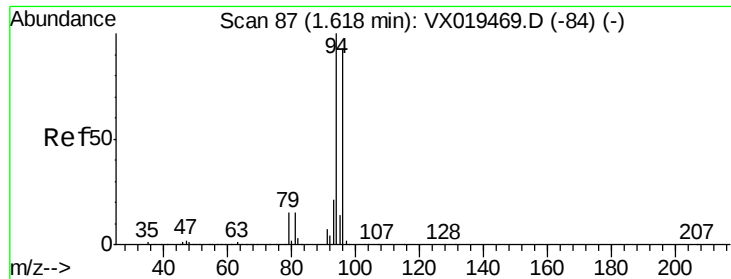
Tgt Ion: 62 Resp: 62264

Ion Ratio Lower Upper

62 100

64 30.7 26.4 39.6





#5

Bromomethane

Concen: 20.721 ug/l

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX112020

Tot Ion: 94 Resp: 26141

Ion Ratio Lower Upper

94 100

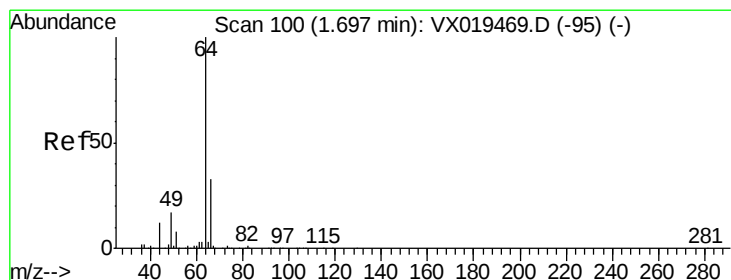
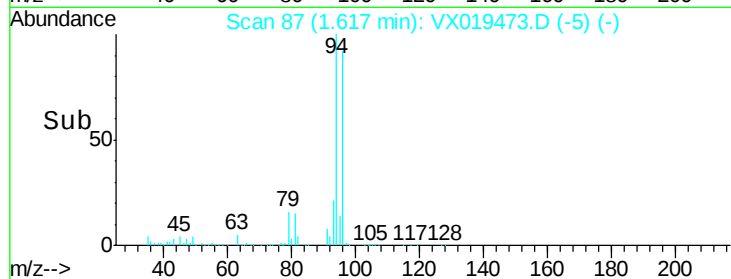
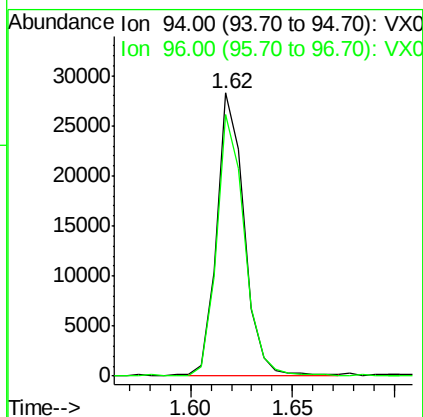
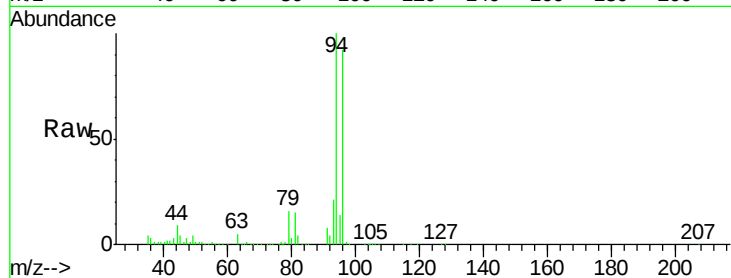
96 92.3 74.6 111.8

Manual Integrations

APPROVED

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11/20/2020 12:25:11 PM



#6

Chloroethane

Concen: 20.241 ug/l

RT: 1.70 min Scan# 100

Delta R.T. -0.00 min

Lab File: VX019473.D

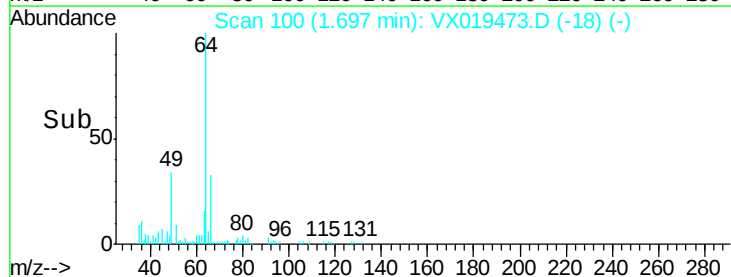
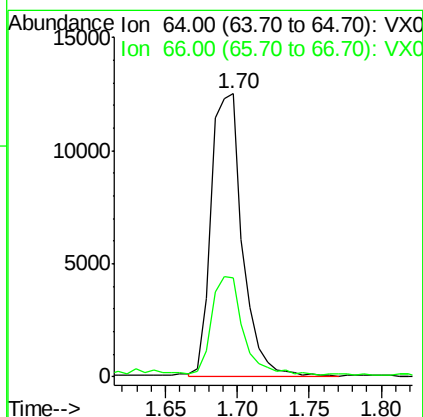
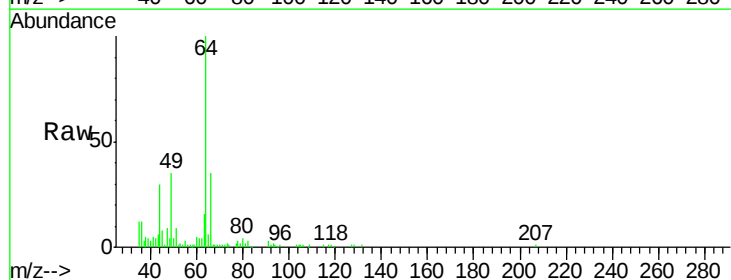
Acq: 19 Nov 2020 18:08

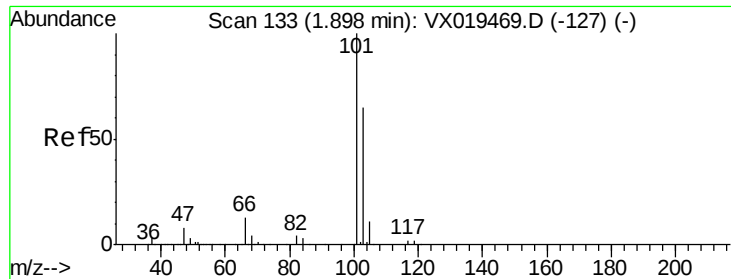
Tgt Ion: 64 Resp: 19066

Ion Ratio Lower Upper

64 100

66 34.1 26.6 40.0





#7

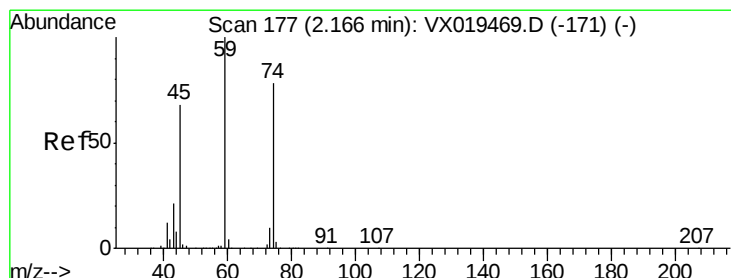
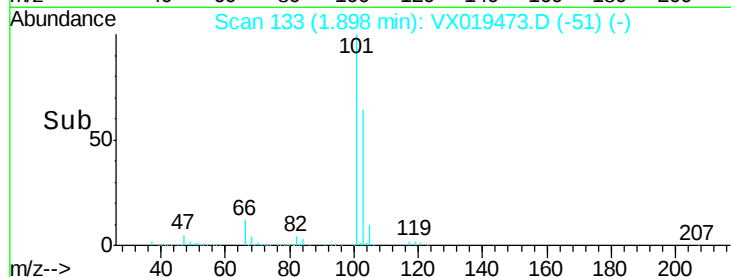
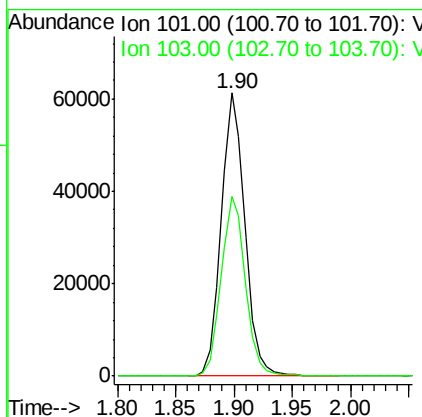
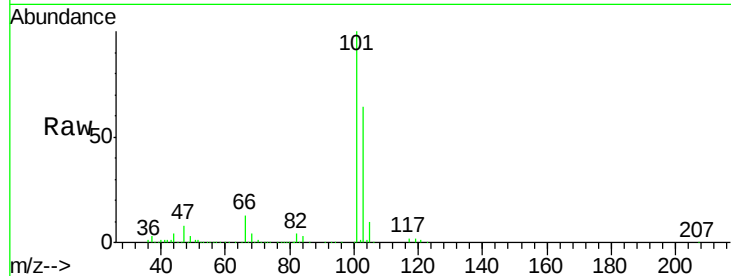
Trichlorofluoromethane  
 Concen: 18.195 ug/l  
 RT: 1.90 min Scan# 133  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 63.6  | 51.8  | 77.6  |

Manual Integrations  
 APPROVED

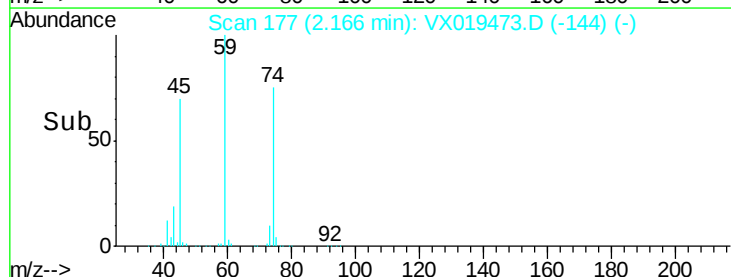
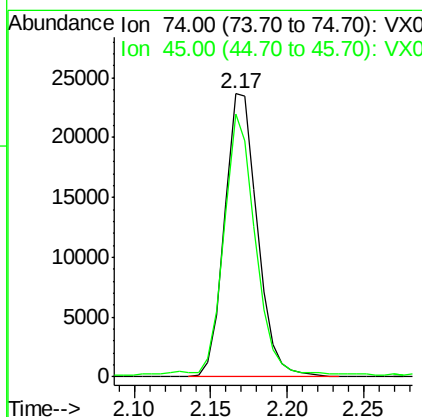
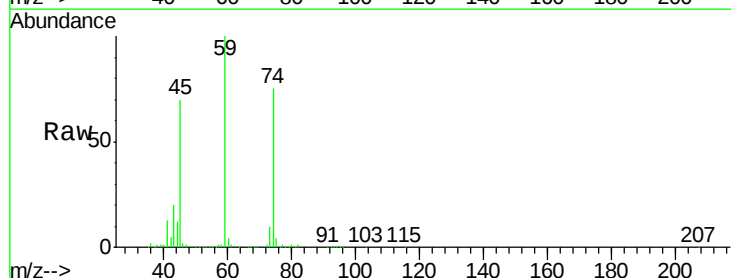
MMDadoda  
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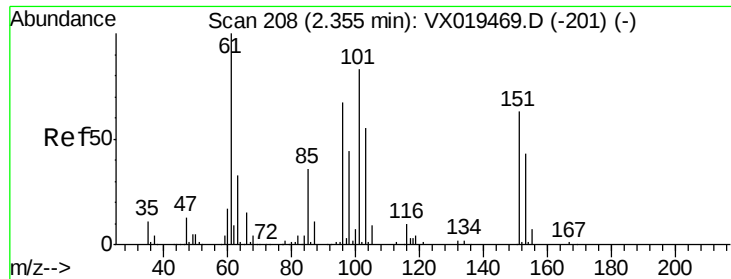


#8

Diethyl Ether  
 Concen: 18.171 ug/l  
 RT: 2.17 min Scan# 177  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 74      | 100   |       |       |
| 45      | 87.6  | 17.2  | 155.0 |





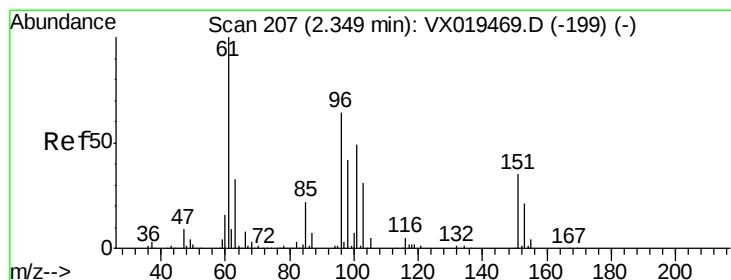
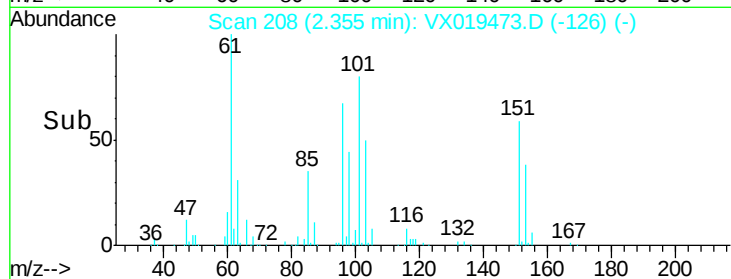
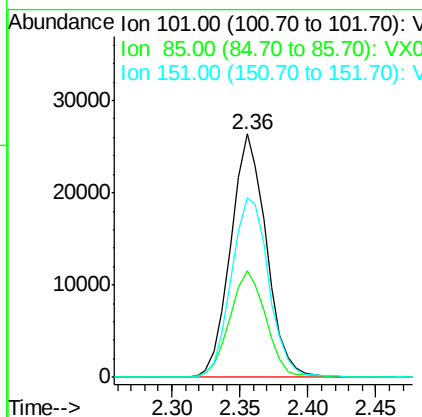
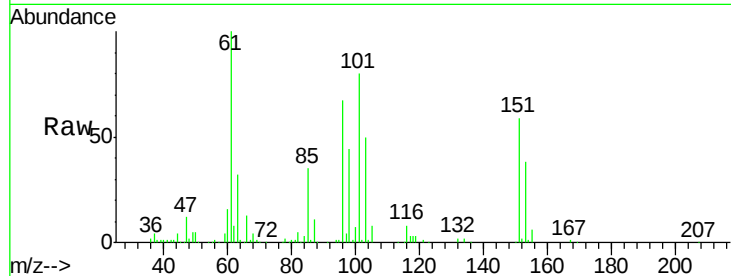
#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 18.084 ug/l  
 RT: 2.36 min Scan# 208  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112020

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 101     | 100   | 48336 |       |       |
| 85      | 44.4  | 0.0   | 88.8  |       |
| 151     | 77.6  | 0.0   | 153.0 |       |

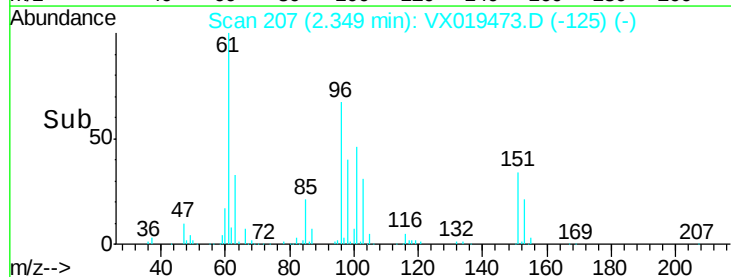
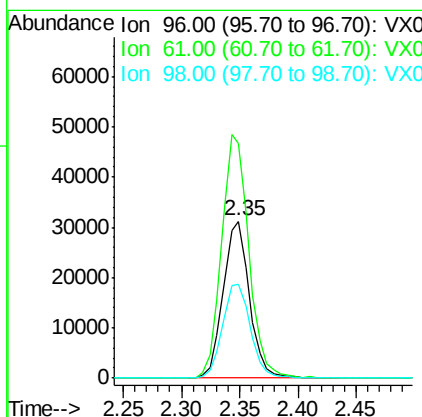
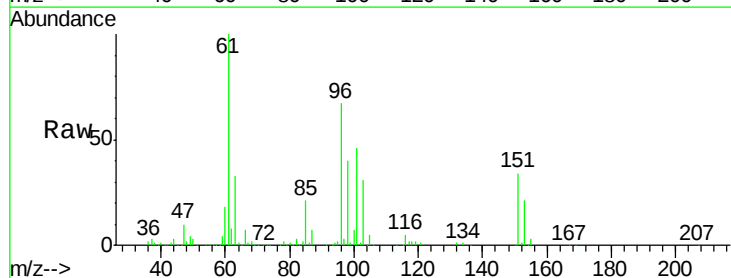
Manual Integrations  
 APPROVED

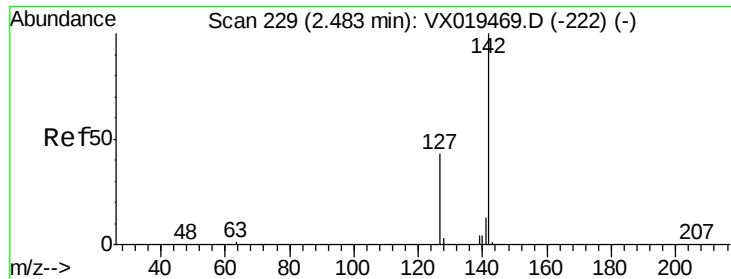
MMDadoda  
 11/20/2020 12:25:11 PM



#10  
 1,1-Dichloroethene  
 Concen: 18.125 ug/l  
 RT: 2.35 min Scan# 207  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 96      | 100   | 48808 |       |       |
| 61      | 149.5 | 125.4 | 188.2 |       |
| 98      | 60.0  | 52.4  | 78.6  |       |





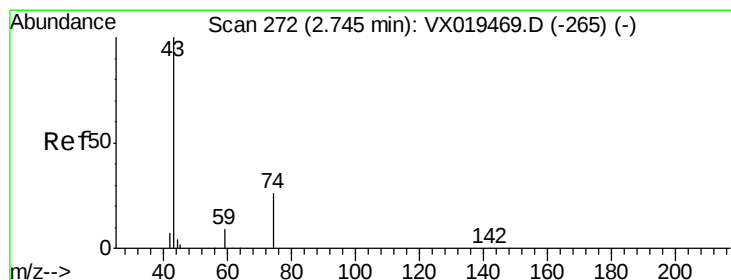
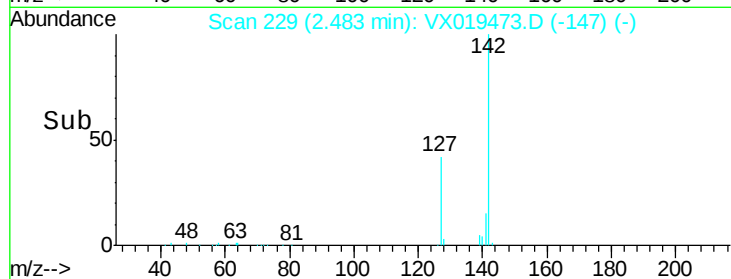
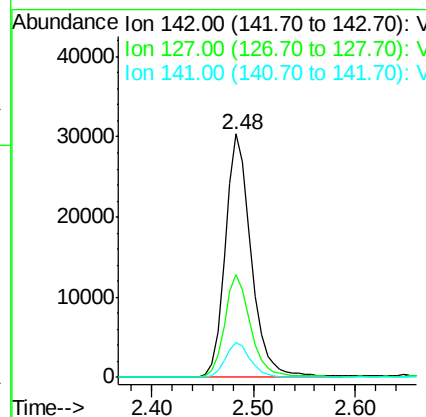
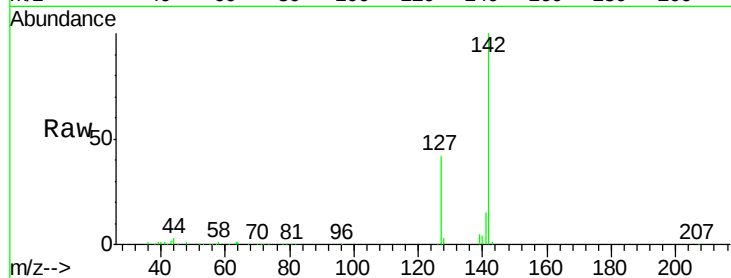
#11  
Methvl Iodide  
Concen: 15.711 ug/l  
RT: 2.48 min Scan# 229  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 127     | 42.3  | 21.3  | 64.0  |
| 141     | 14.6  | 6.7   | 20.0  |

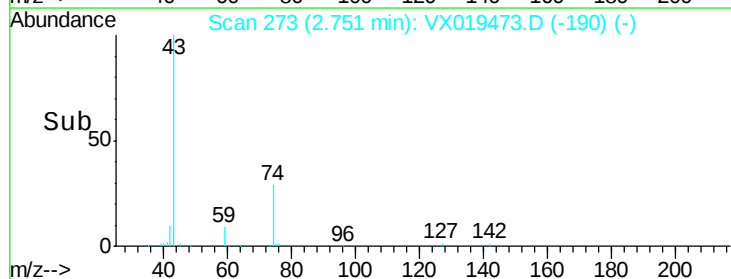
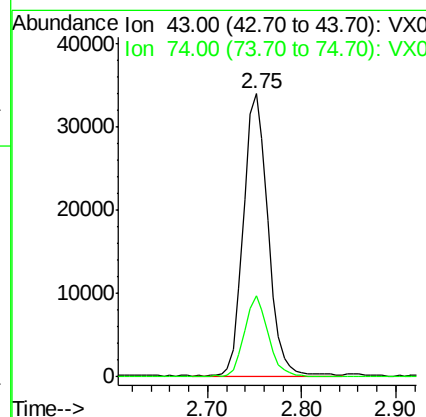
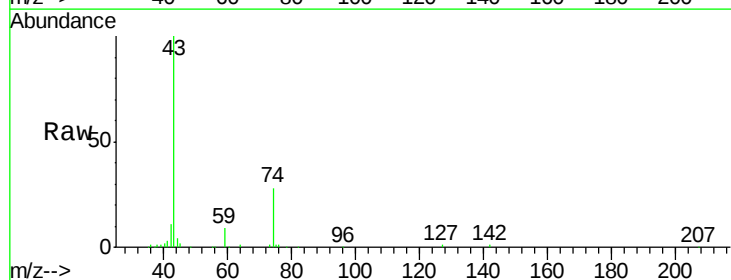
Manual Integrations  
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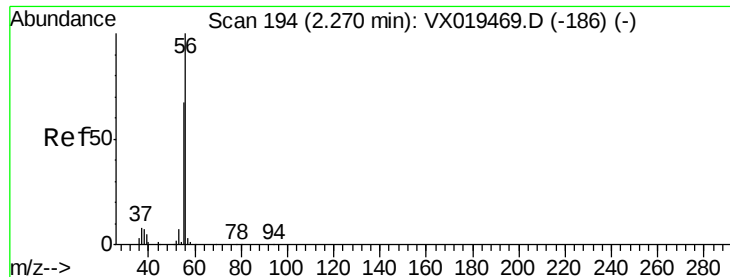
MMDadoda  
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#12  
Methyl Acetate  
Concen: 19.118 ug/l  
RT: 2.75 min Scan# 273  
Delta R.T. 0.01 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 74      | 28.4  | 20.7  | 31.1  |





#13

Acrolein

Concen: 88.813 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX112020

Tot Ion: 56 Resp: 42879

Ion Ratio Lower Upper

56 100

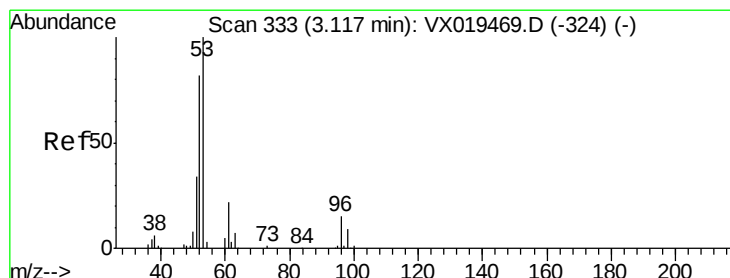
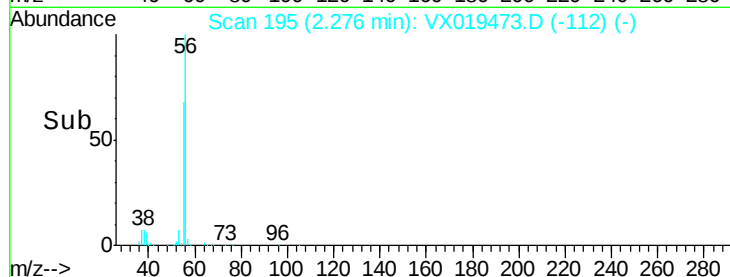
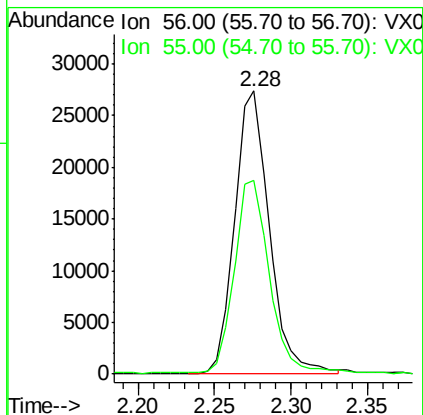
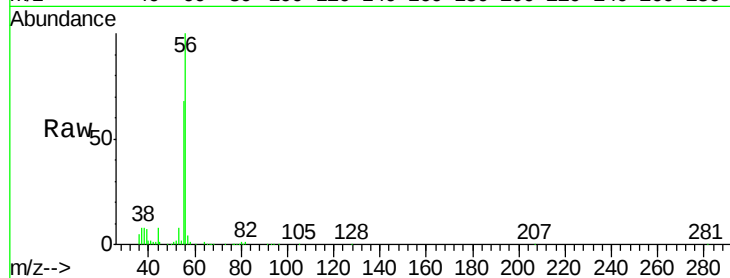
55 70.3 56.5 84.7

Manual Integrations

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#14

Acrylonitrile

Concen: 96.024 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

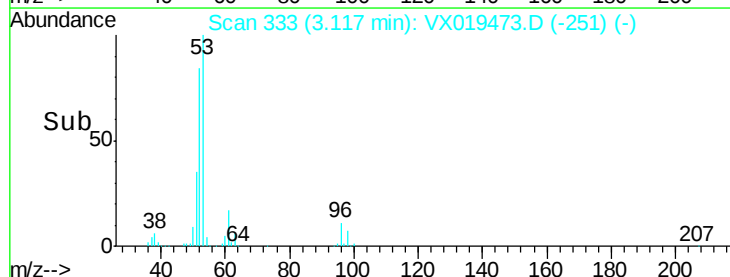
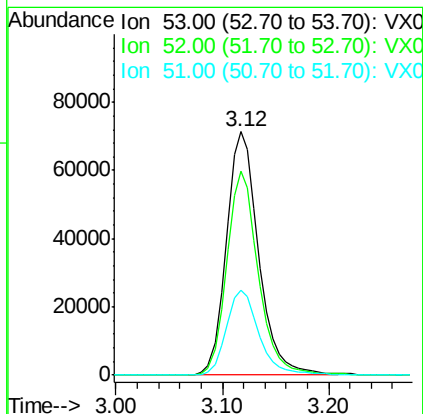
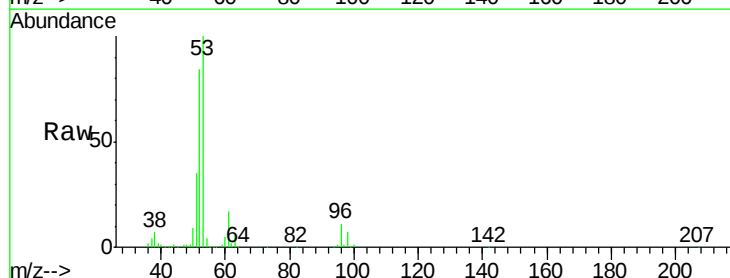
Tgt Ion: 53 Resp: 151227

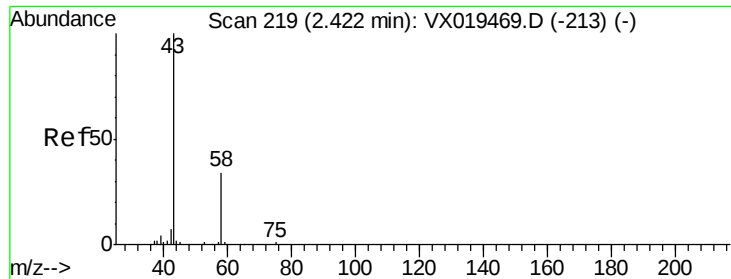
Ion Ratio Lower Upper

53 100

52 82.2 41.3 123.7

51 35.8 17.8 53.3





#15

Acetone

Concen: 92.013 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX112020

Tot Ion: 58 Resp: 42078

Ion Ratio Lower Upper

58 100

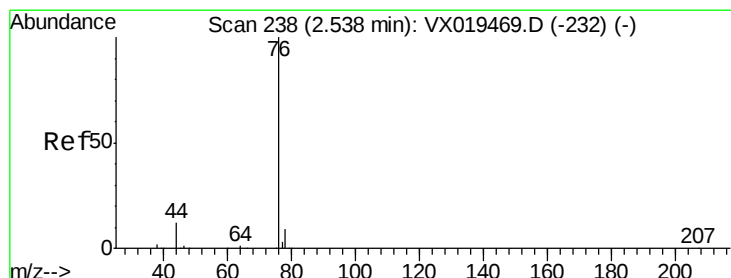
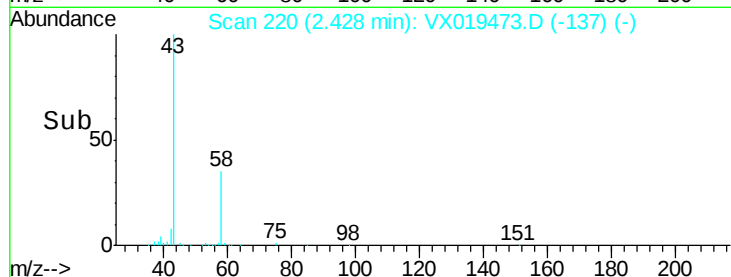
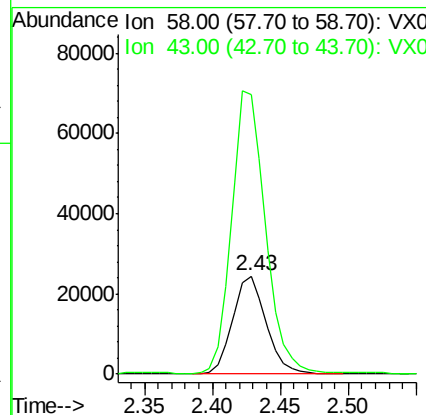
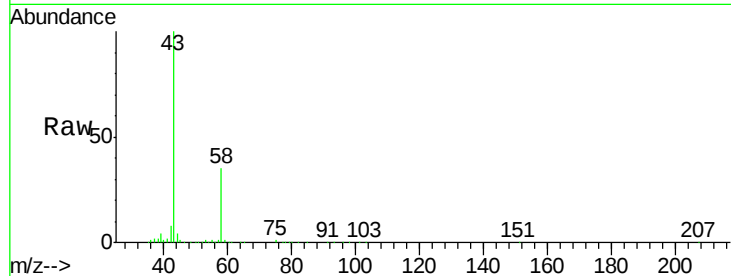
43 284.0 236.3 354.5

Manual Integrations

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#16

Carbon Disulfide

Concen: 19.675 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VX019473.D

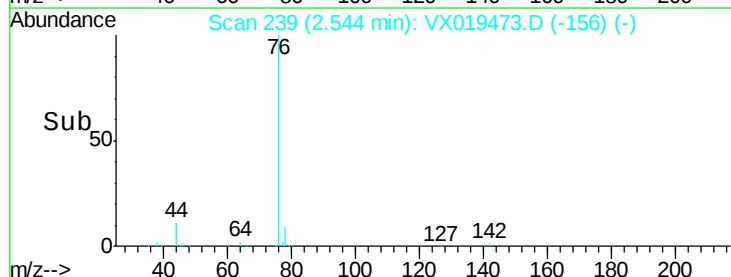
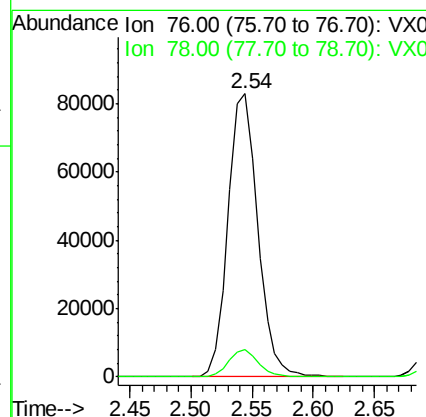
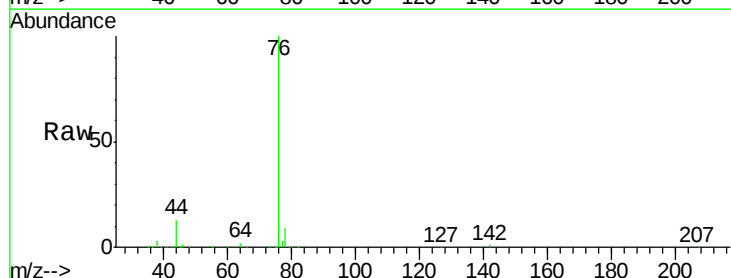
Acq: 19 Nov 2020 18:08

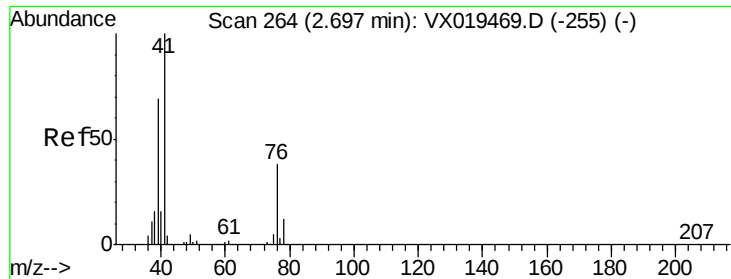
Tgt Ion: 76 Resp: 140238

Ion Ratio Lower Upper

76 100

78 9.5 7.0 10.6





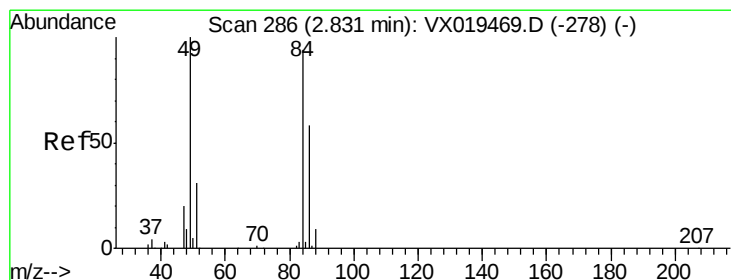
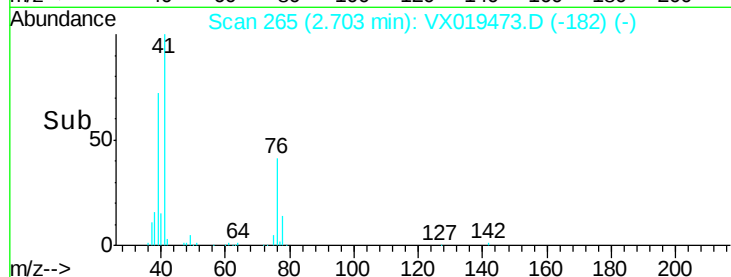
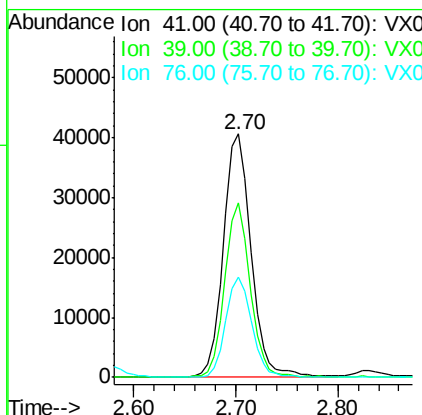
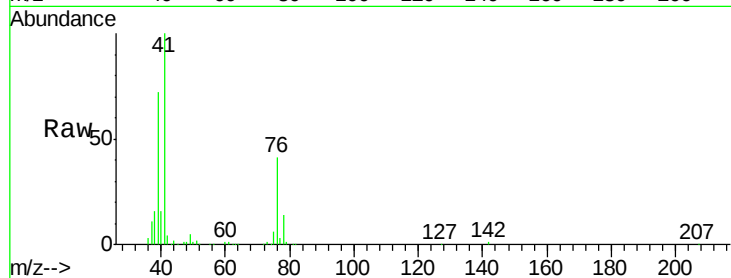
#17  
Allvl chloride  
Concen: 18.840 ug/l  
RT: 2.70 min Scan# 265  
Delta R.T. 0.01 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 39      | 71.7  | 34.5  | 103.6 |
| 76      | 41.3  | 19.3  | 57.8  |

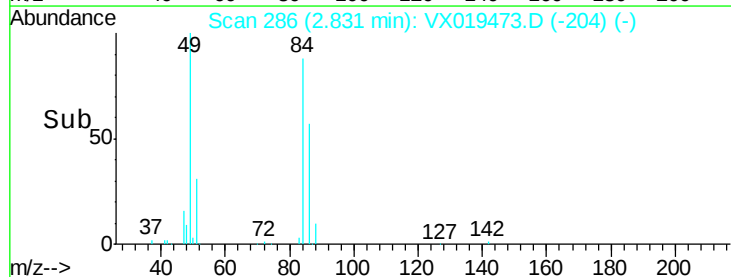
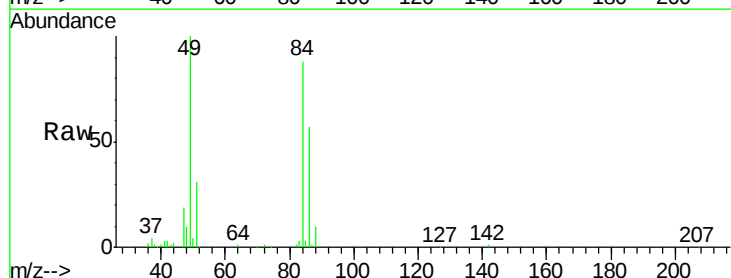
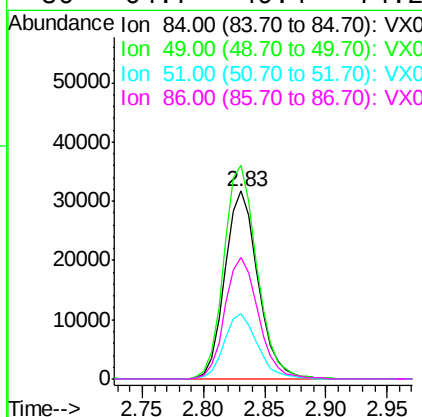
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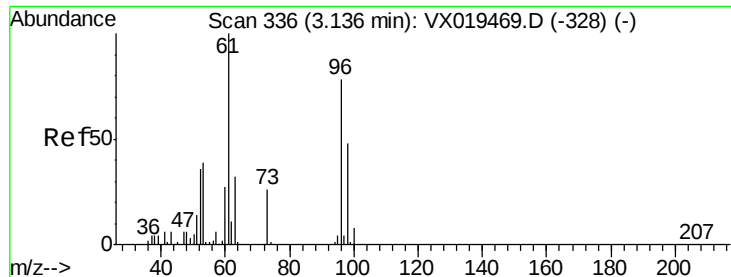
MMDadoda  
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#18  
Methylene Chloride  
Concen: 18.291 ug/l  
RT: 2.83 min Scan# 286  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 113.7 | 85.4  | 128.0 |
| 51      | 34.9  | 26.7  | 40.1  |
| 86      | 64.7  | 49.4  | 74.2  |





#19

trans-1,2-Dichloroethene

Concen: 19.066 ug/l

RT: 3.14 min Scan# 336

Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

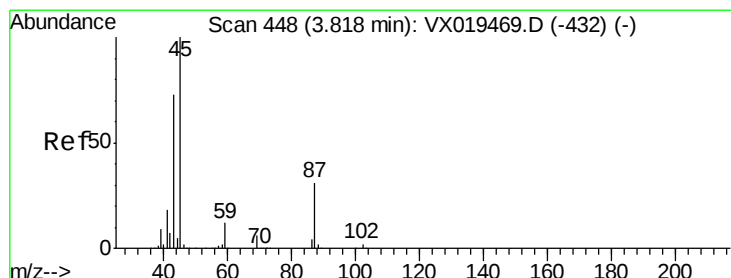
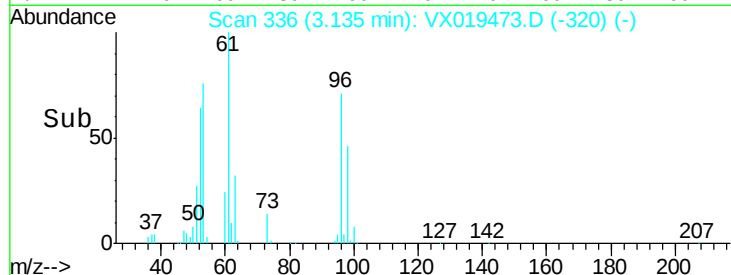
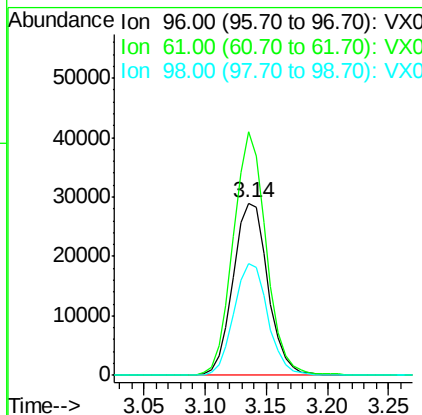
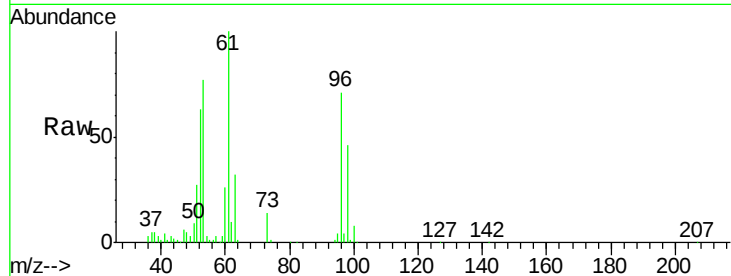
ClientSampled :

ICVVX112020

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 57341 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 141.2 | 103.2 | 154.8 |
| 98       | 65.2  | 49.2  | 73.8  |

Manual Integrations  
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#20

Diisopropyl ether

Concen: 18.606 ug/l

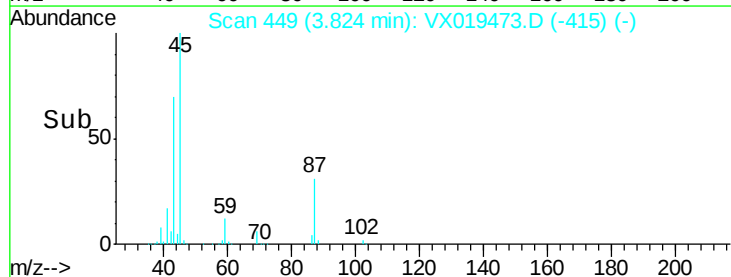
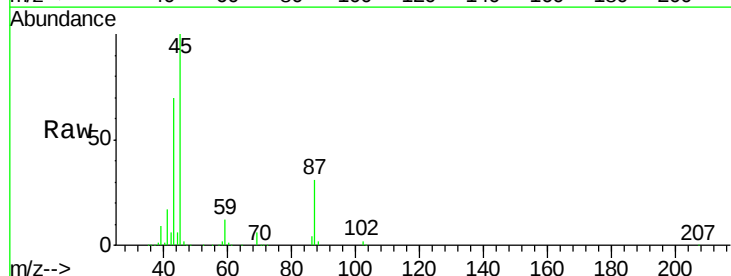
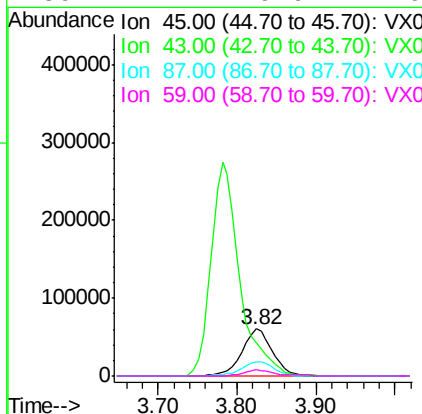
RT: 3.82 min Scan# 449

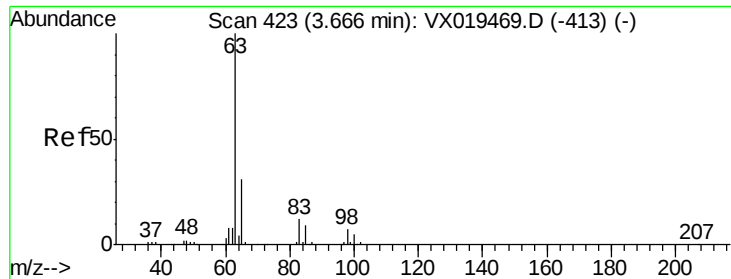
Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 45    | Resp: | 161725 |
| Ion      | Ratio | Lower | Upper  |
| 45       | 100   |       |        |
| 43       | 68.7  | 58.7  | 88.1   |
| 87       | 31.4  | 24.5  | 36.7   |
| 59       | 12.4  | 9.9   | 14.9   |





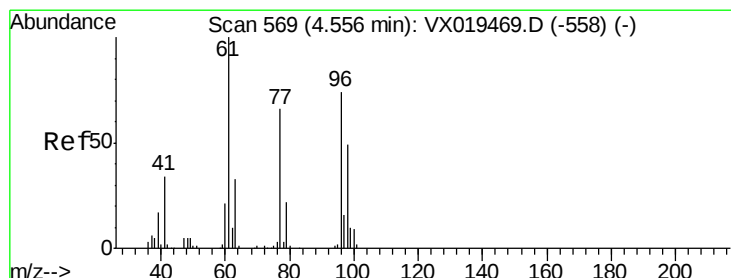
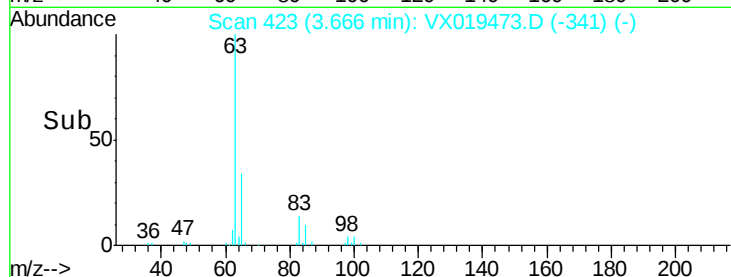
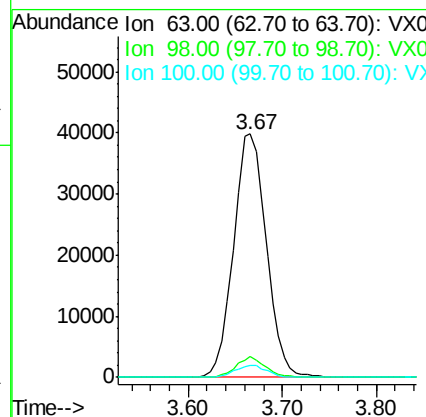
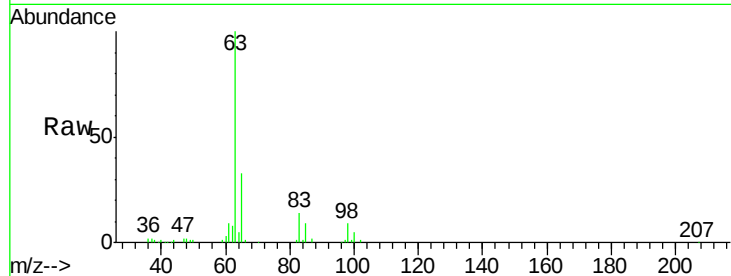
#21  
 1,1-Dichloroethane  
 Concen: 18.274 ug/l  
 RT: 3.67 min Scan# 423  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112020

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 63    | Resp: | 96657 |
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 98        | 8.6   | 3.8   | 11.2  |
| 100       | 4.8   | 2.4   | 7.1   |

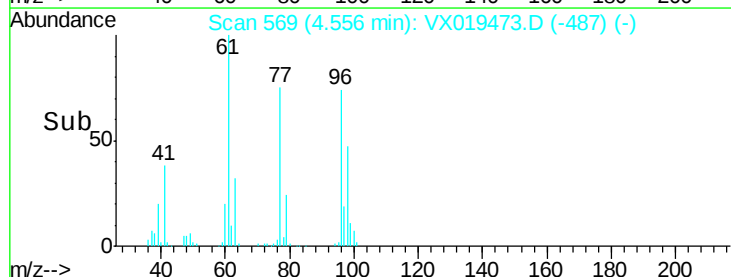
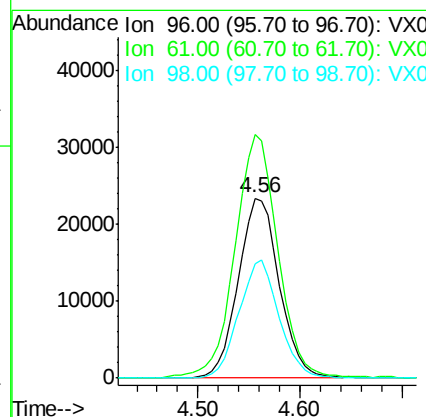
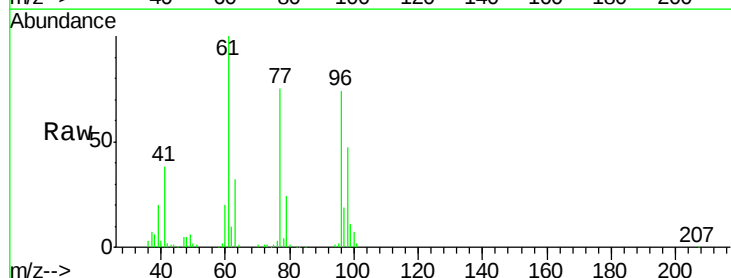
Manual Integrations  
 APPROVED

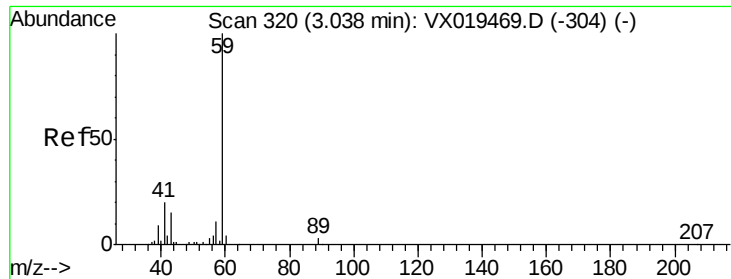
MMDadoda  
 11/20/2020 12:25:11 PM



#22  
 cis-1,2-Dichloroethene  
 Concen: 18.685 ug/l  
 RT: 4.56 min Scan# 569  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 65040 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 142.4 | 114.2 | 171.2 |
| 98        | 64.3  | 51.7  | 77.5  |





#23

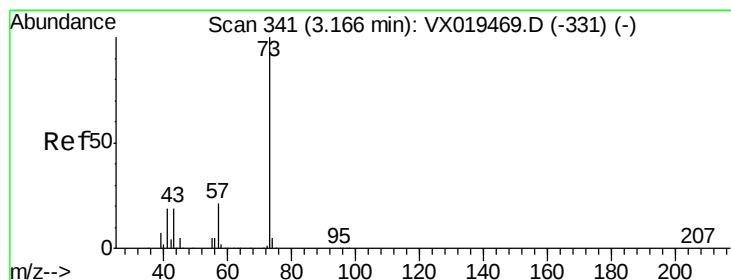
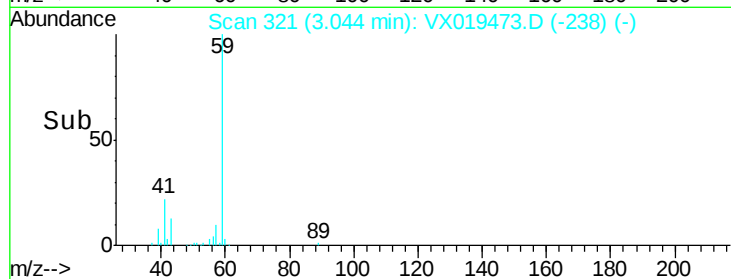
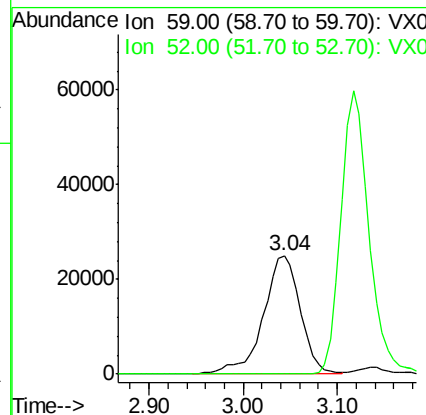
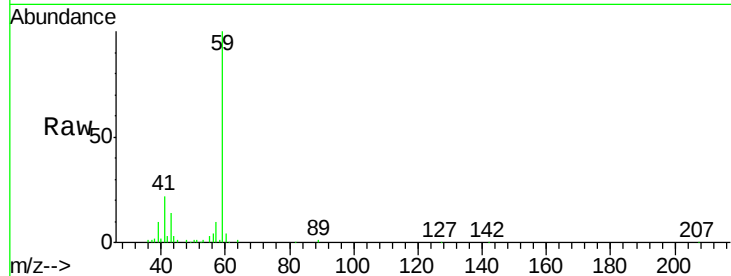
tert-Butyl Alcohol  
Concen: 102.020 ug/l  
RT: 3.04 min Scan# 321  
Delta R.T. 0.01 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

Tot Ion: 59 Resp: 69003  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.2 0.2#

Manual Integrations  
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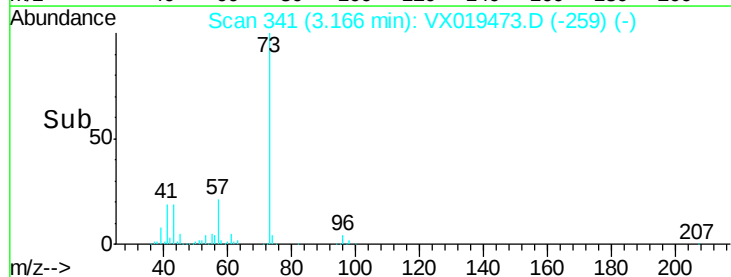
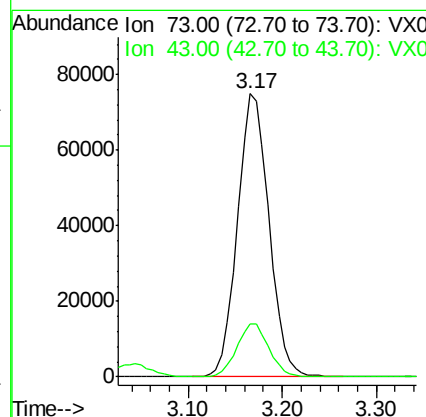
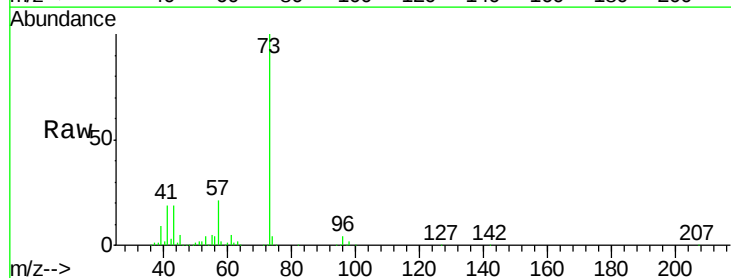
MMDadoda  
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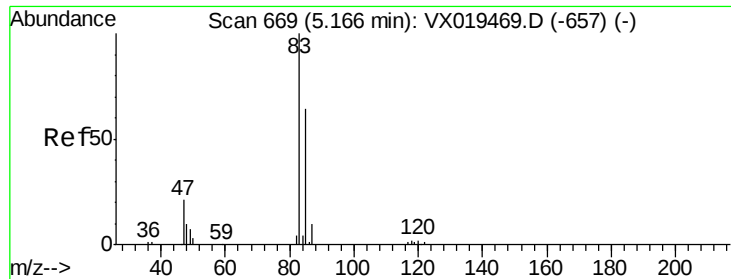


#24

Methyl tert-Butyl Ether  
Concen: 18.821 ug/l  
RT: 3.17 min Scan# 341  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Tgt Ion: 73 Resp: 174261  
Ion Ratio Lower Upper  
73 100  
43 18.6 15.0 22.6





#25

Chloroform

Concen: 18.443 ug/l

RT: 5.17 min Scan# 670

Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX112020

Tot Ion: 83 Resp: 102462

Ion Ratio Lower Upper

83 100

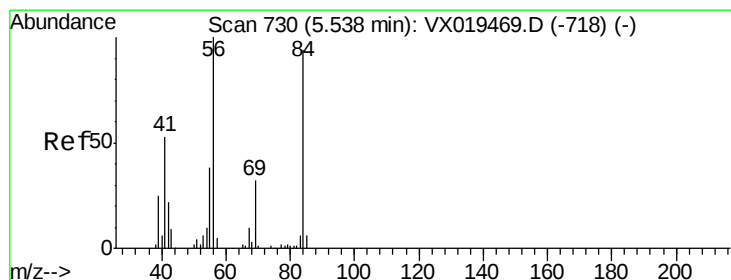
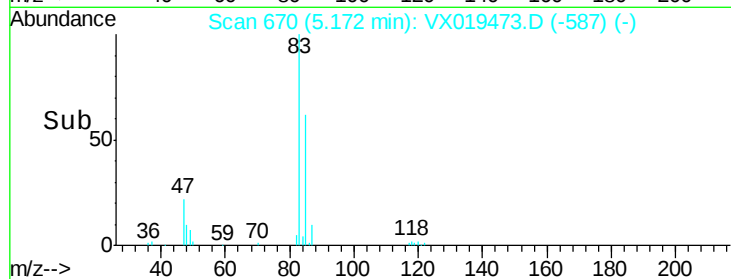
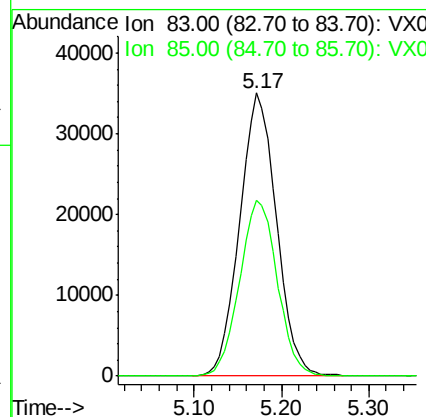
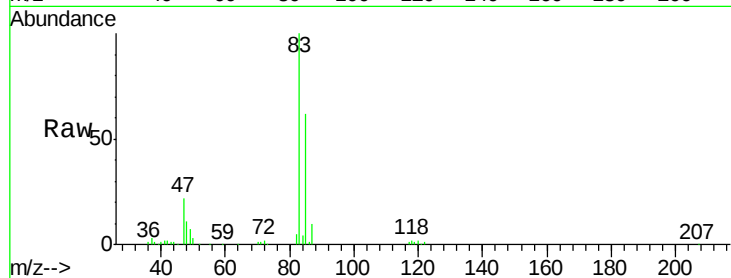
85 62.1 51.4 77.0

Manual Integrations

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#26

Cyclohexane

Concen: 18.324 ug/l

RT: 5.54 min Scan# 731

Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

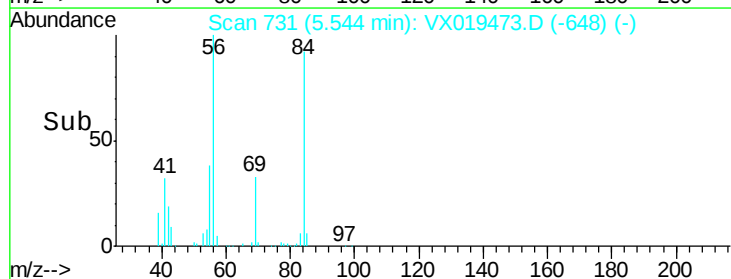
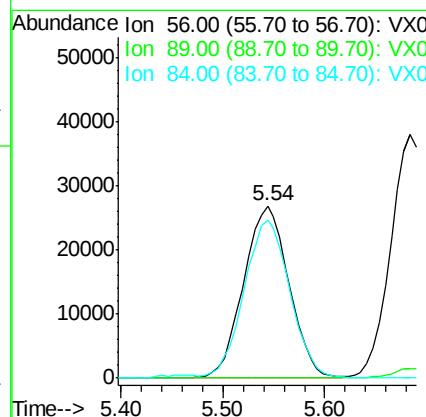
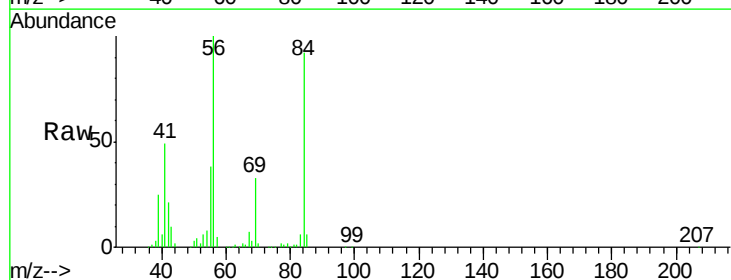
Tgt Ion: 56 Resp: 82970

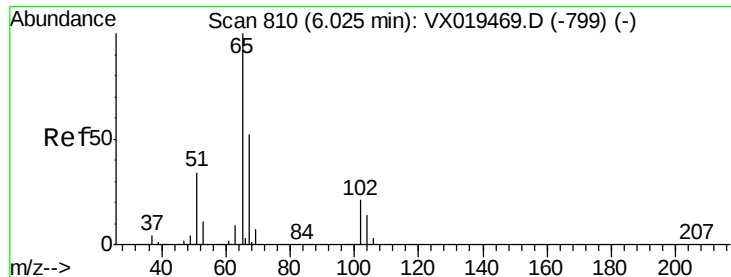
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 92.8 75.2 112.8





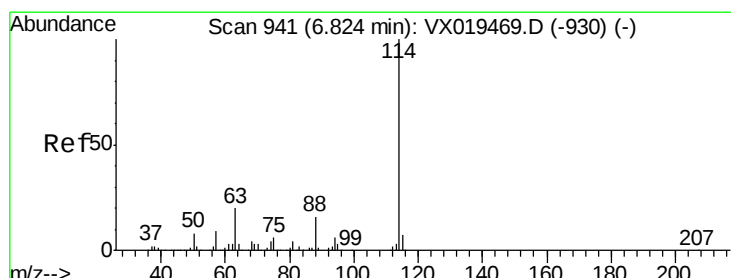
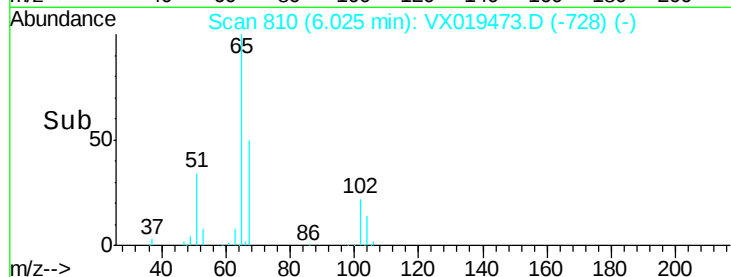
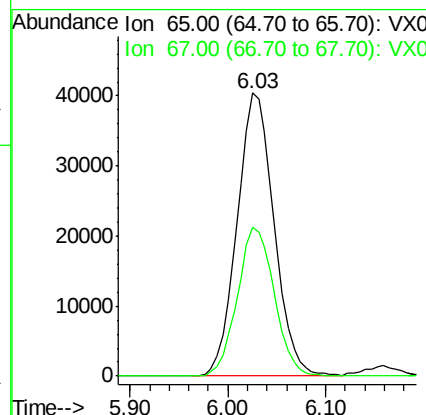
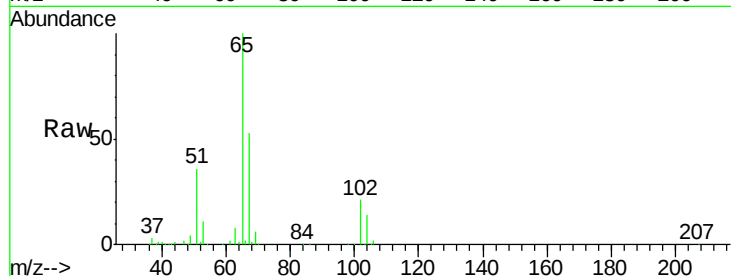
#27  
 1,2-Dichloroethane-d4  
 Concen: 30.295 ug/l  
 RT: 6.03 min Scan# 810  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 52.6  | 42.2  | 63.2  |

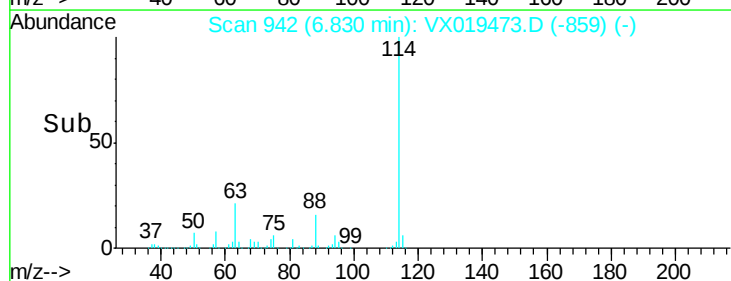
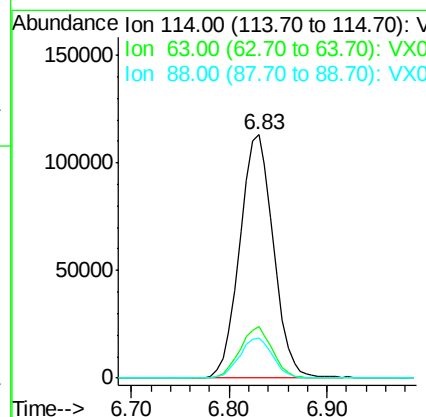
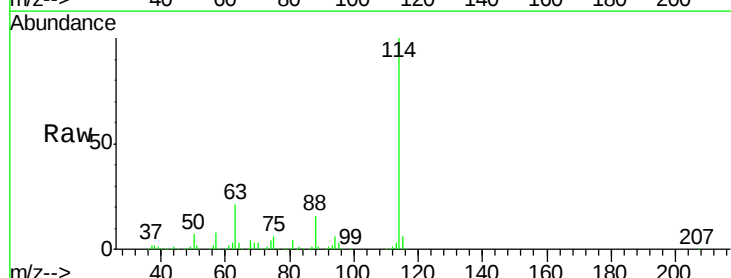
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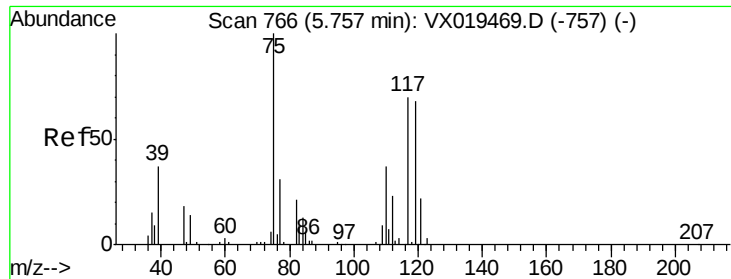
MMDadoda  
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#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.83 min Scan# 942  
 Delta R.T. 0.01 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.3  | 16.2  | 24.2  |
| 88      | 16.2  | 12.9  | 19.3  |





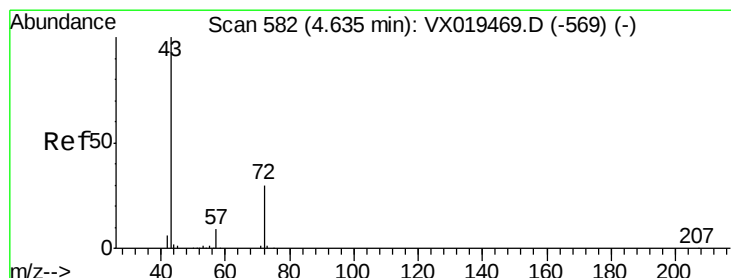
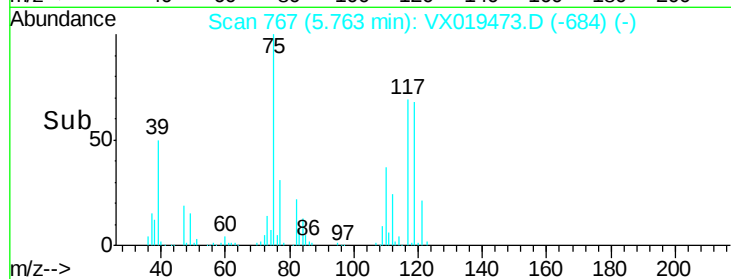
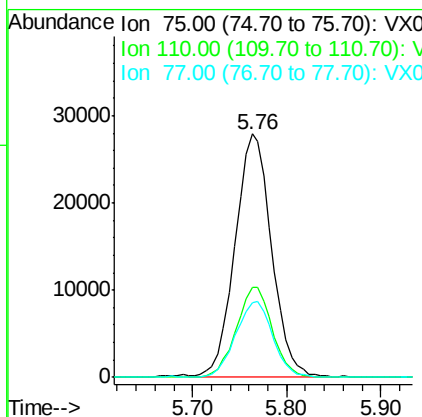
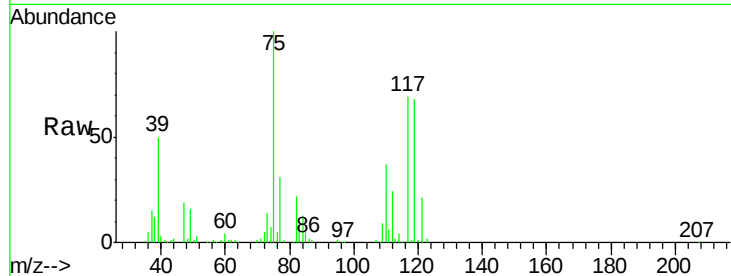
#29  
 1,1-Dichloropropene  
 Concen: 18.239 ug/l  
 RT: 5.76 min Scan# 767  
 Delta R.T. 0.01 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112020

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 75    | Resp: | 75751 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 36.3  | 0.0   | 74.0  |
| 77        | 31.7  | 0.0   | 63.6  |

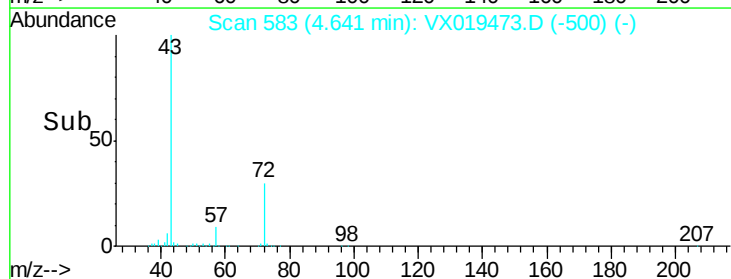
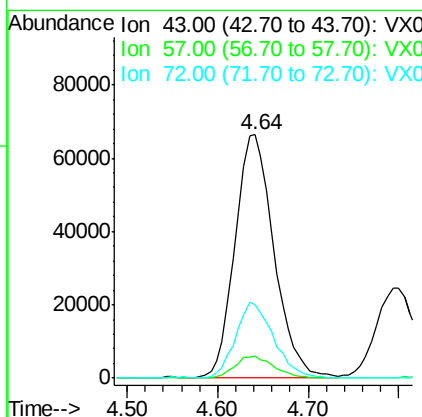
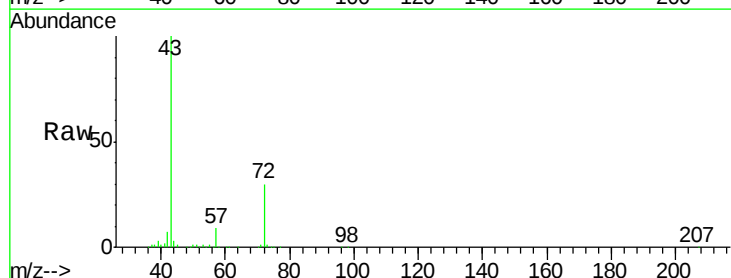
Manual Integrations  
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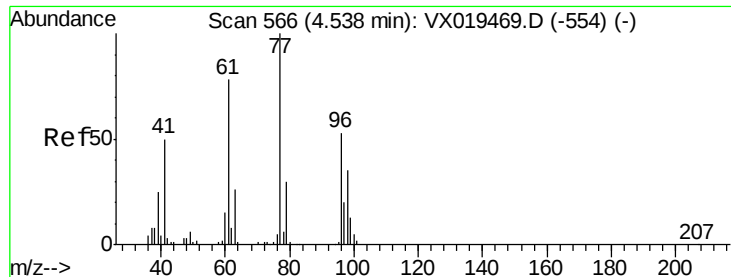
MMDadoda  
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#30  
 2-Butanone  
 Concen: 93.759 ug/l  
 RT: 4.64 min Scan# 583  
 Delta R.T. 0.01 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 196712 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 57        | 9.2   | 7.4   | 11.0   |
| 72        | 30.6  | 24.2  | 36.2   |





#31

2,2-Dichloropropane

Concen: 17.675 ug/l

RT: 4.54 min Scan# 567

Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX112020

Tot Ion: 77 Resp: 82513

Ion Ratio Lower Upper

77 100

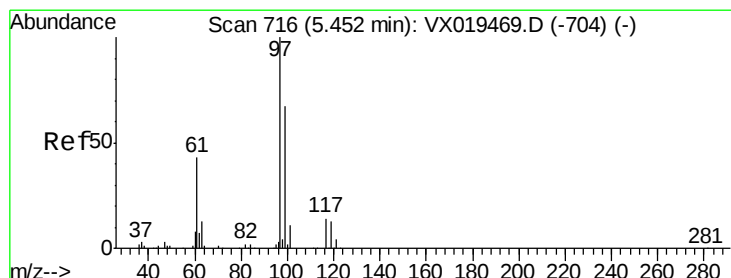
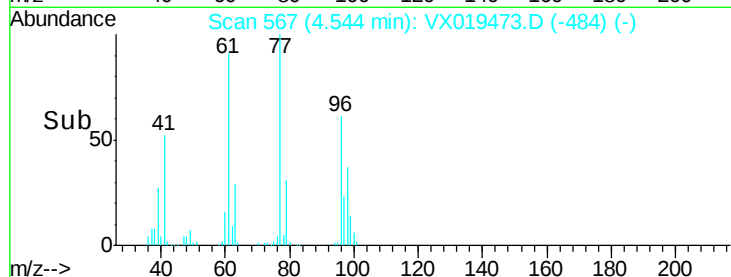
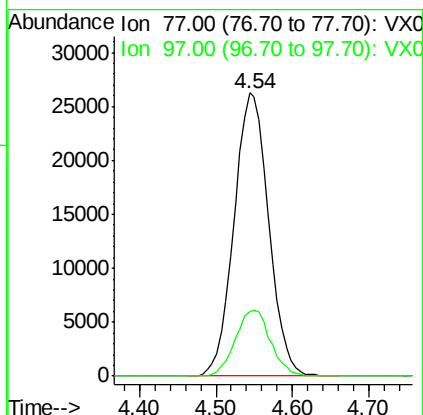
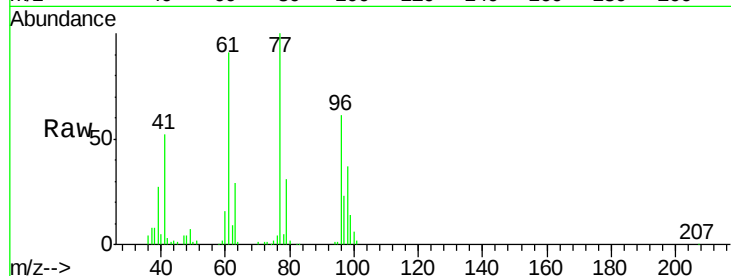
97 23.7 18.6 27.8

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#32

1,1,1-Trichloroethane

Concen: 17.903 ug/l

RT: 5.46 min Scan# 717

Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

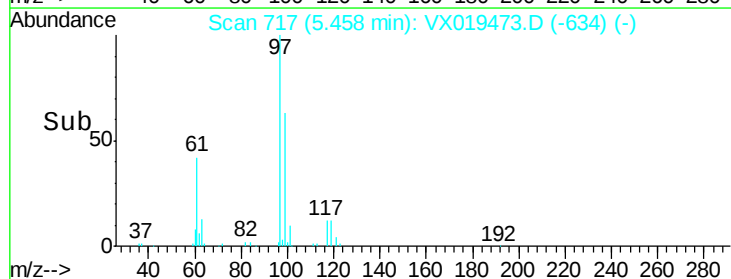
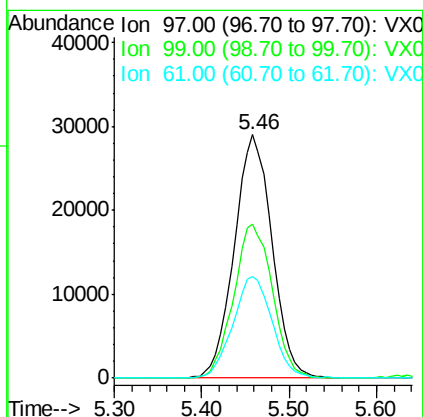
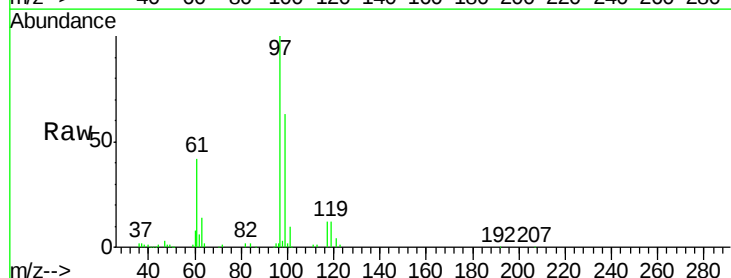
Tgt Ion: 97 Resp: 87233

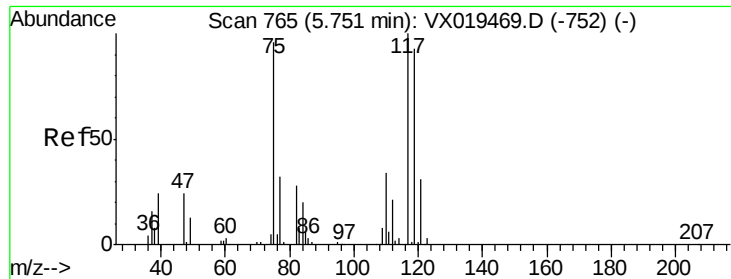
Ion Ratio Lower Upper

97 100

99 64.8 52.3 78.5

61 43.0 34.9 52.3





#33

Carbon Tetrachloride

Concen: 17.741 ug/l

RT: 5.75 min Scan# 765

Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

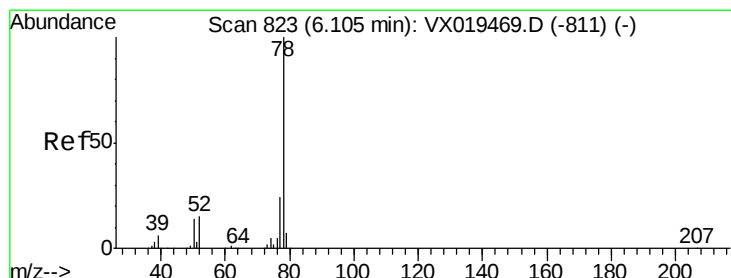
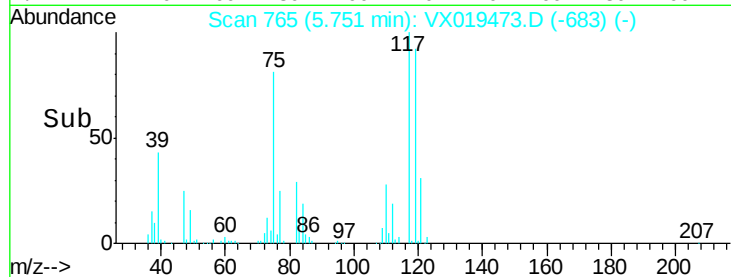
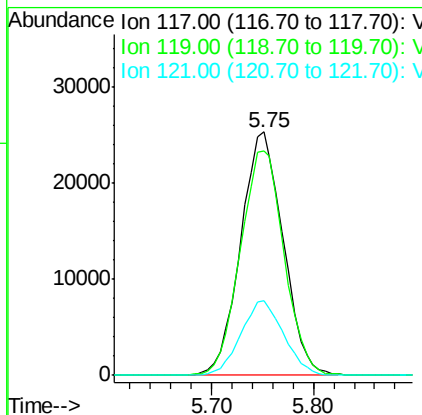
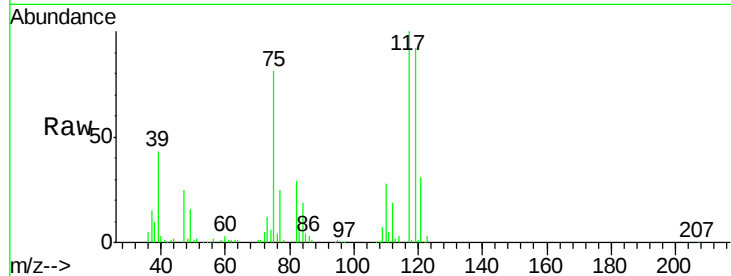
ClientSampleId :

ICVVX112020

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 117   | Resp: | 73360 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 119      | 92.4  | 74.2  | 111.4 |
| 121      | 30.5  | 25.0  | 37.4  |

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#34

Benzene

Concen: 18.083 ug/l

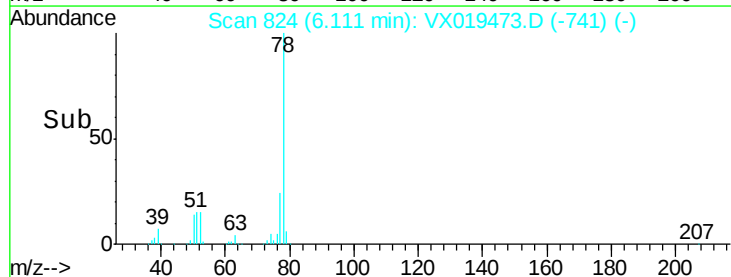
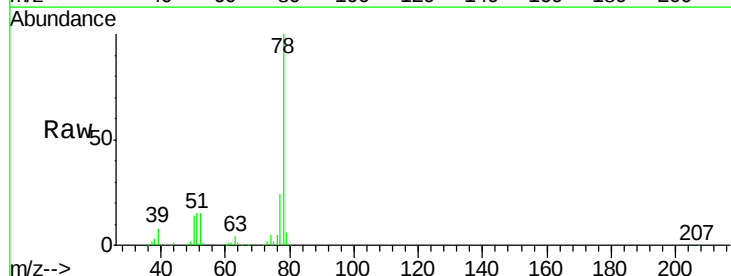
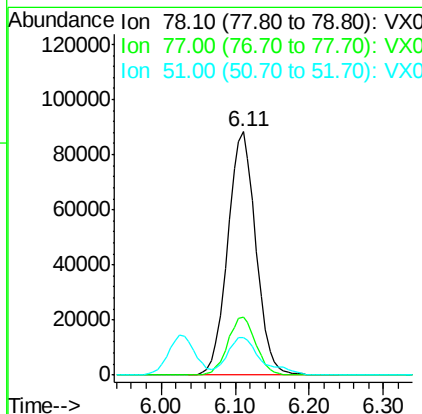
RT: 6.11 min Scan# 824

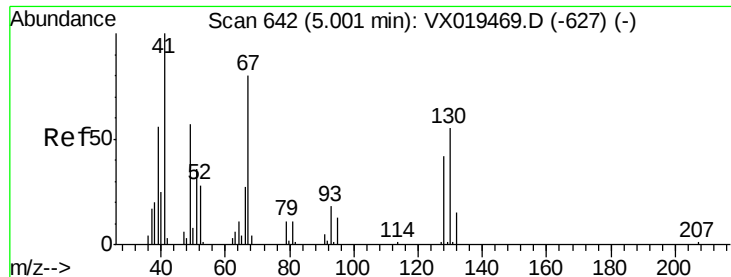
Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 78    | Resp: | 233345 |
| Ion      | Ratio | Lower | Upper  |
| 78       | 100   |       |        |
| 77       | 23.9  | 19.0  | 28.6   |
| 51       | 15.2  | 12.7  | 19.1   |





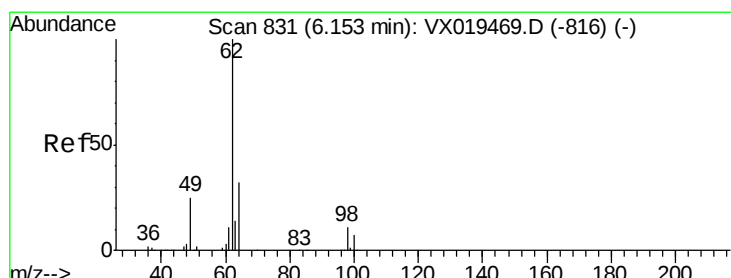
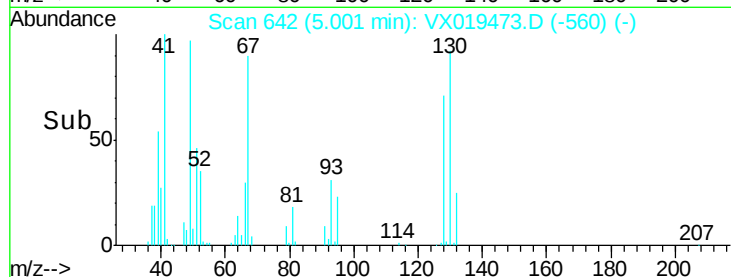
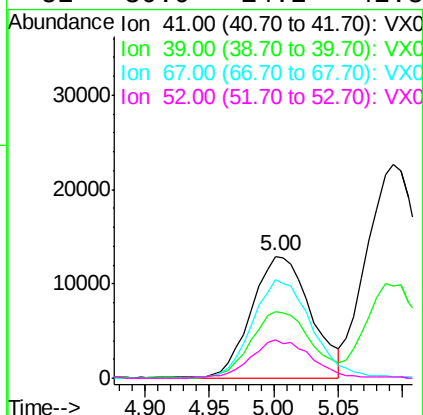
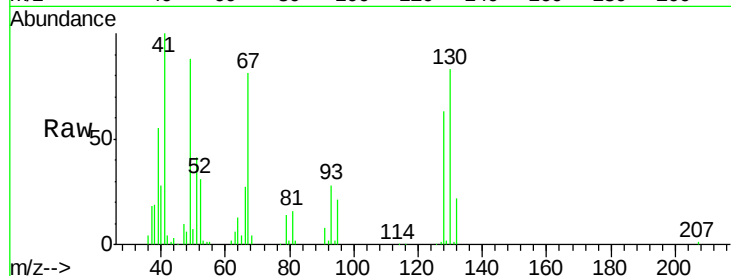
#35  
Methacrylonitrile  
Concen: 19.028 ug/l  
RT: 5.00 min Scan# 642  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 41    | Resp: | 41172 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 55.3  | 28.0  | 84.0  |
| 67       | 81.5  | 40.0  | 119.9 |
| 52       | 30.9  | 14.2  | 42.8  |

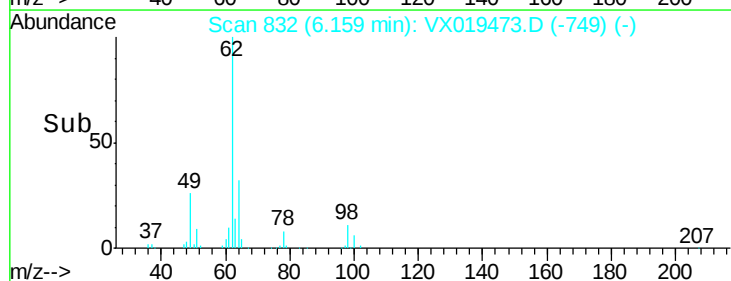
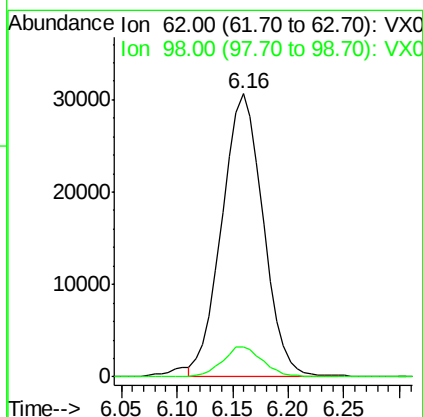
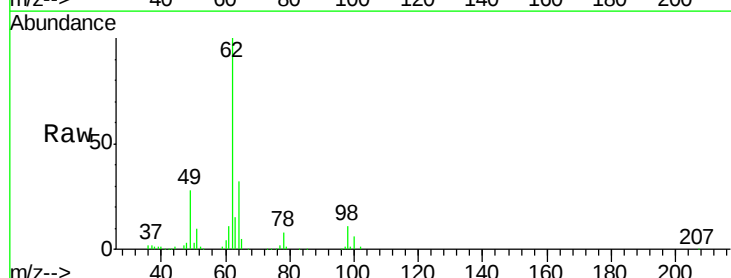
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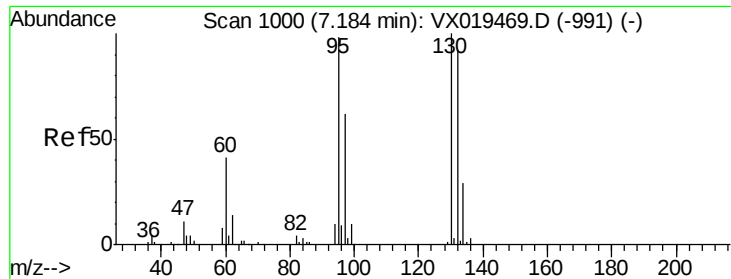
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#36  
1,2-Dichloroethane  
Concen: 17.707 ug/l  
RT: 6.16 min Scan# 832  
Delta R.T. 0.01 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 79089 |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 98       | 10.4  | 8.1   | 12.1  |





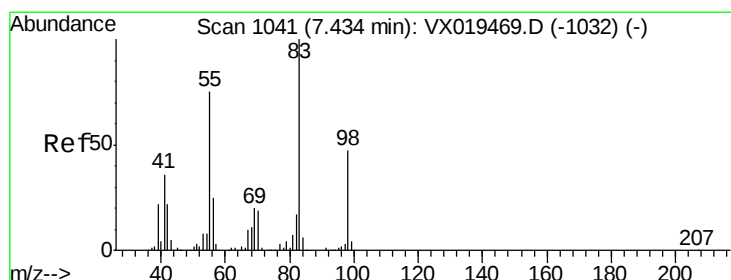
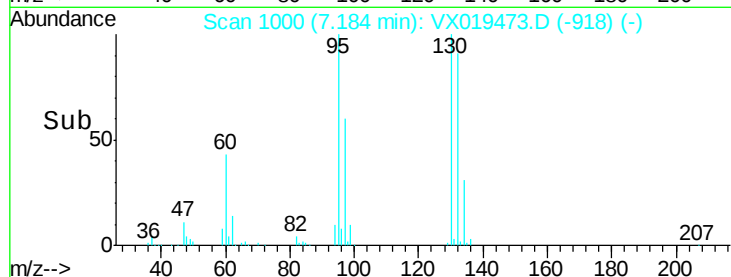
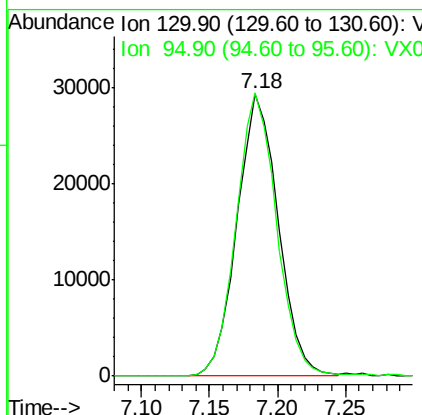
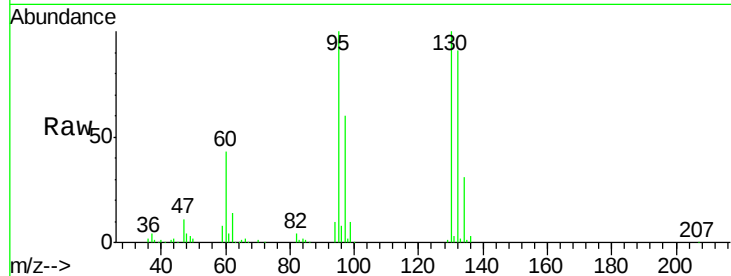
#37  
 Trichloroethene  
 Concen: 18.150 ug/l  
 RT: 7.18 min Scan# 1000  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112020

Tot Ion:130 Resp: 62092  
 Ion Ratio Lower Upper  
 130 100  
 95 99.9 78.8 118.2

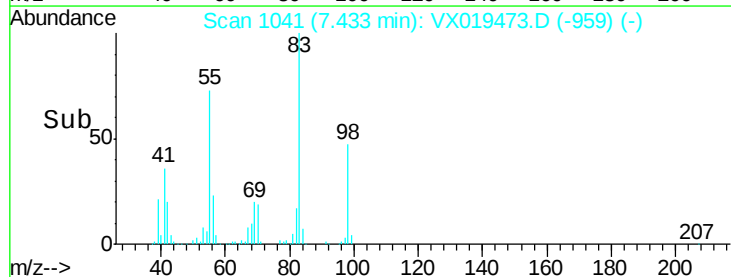
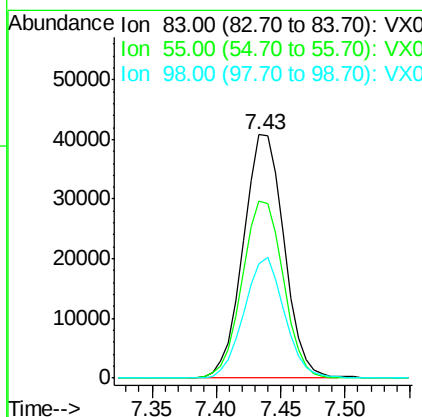
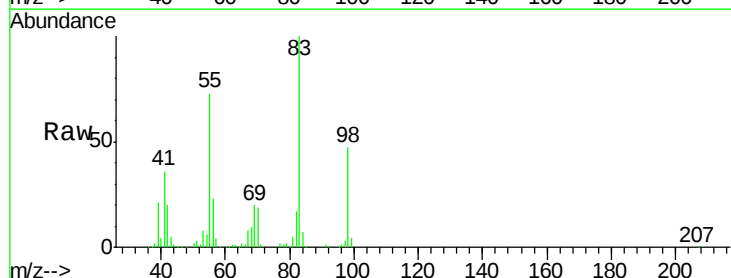
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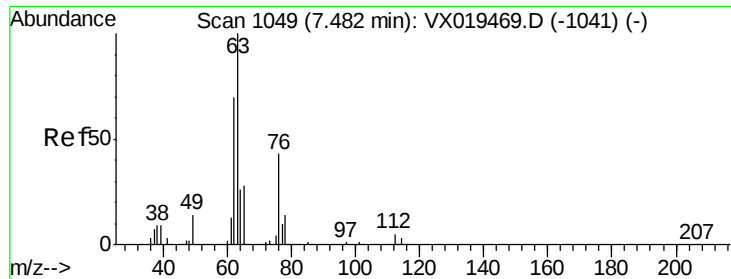
MMDadoda  
 11/20/2020 12:25:11 PM



#38  
 Methylcyclohexane  
 Concen: 17.865 ug/l  
 RT: 7.43 min Scan# 1041  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

Tgt Ion: 83 Resp: 89673  
 Ion Ratio Lower Upper  
 83 100  
 55 73.3 37.7 113.1  
 98 49.2 24.7 74.1





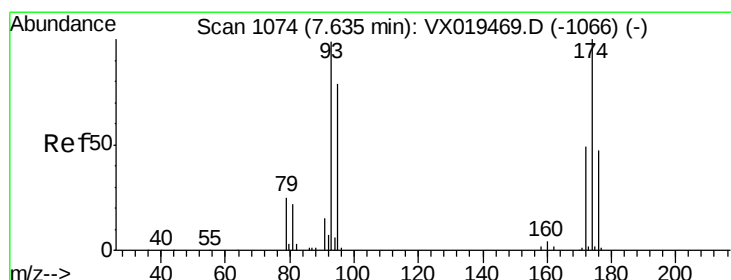
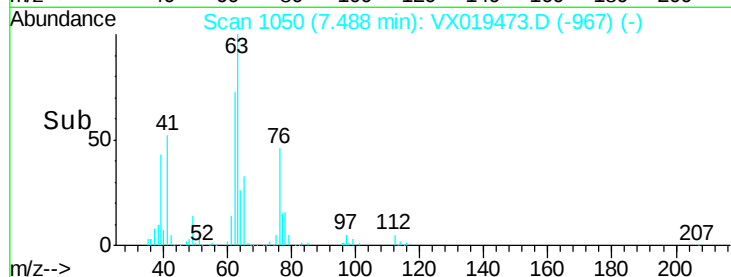
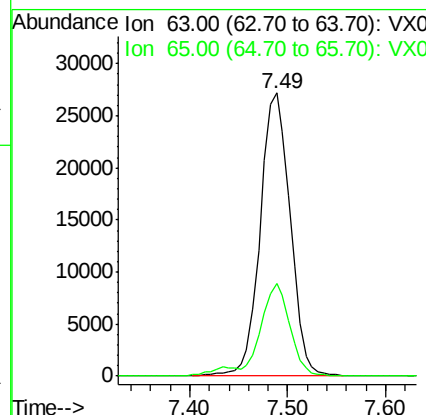
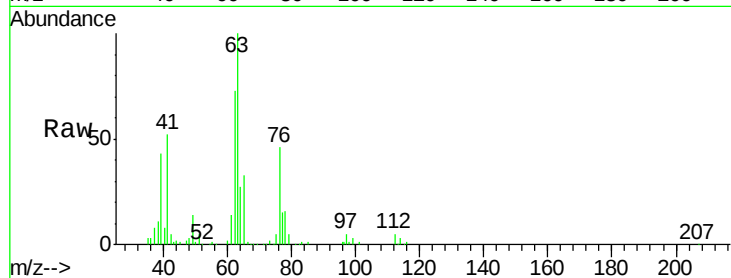
#39  
 1,2-Dichloropropane  
 Concen: 18.229 ug/l  
 RT: 7.49 min Scan# 1050  
 Delta R.T. 0.01 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 32.8  | 24.8  | 37.2  |

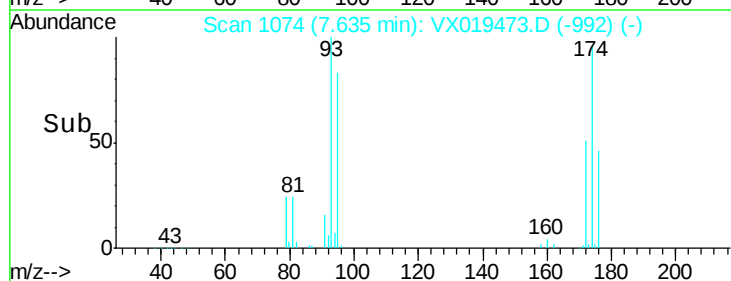
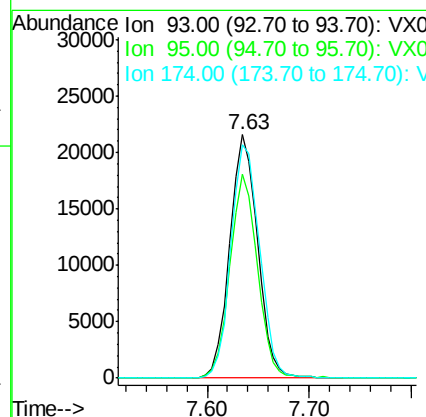
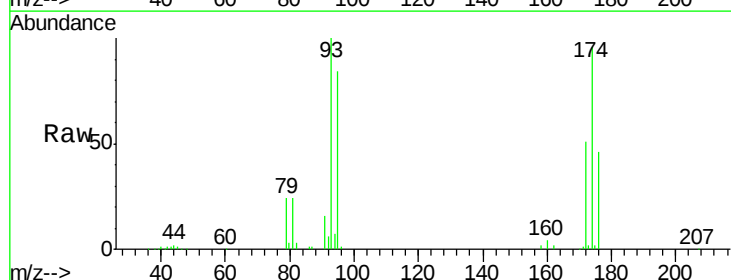
Manual Integrations  
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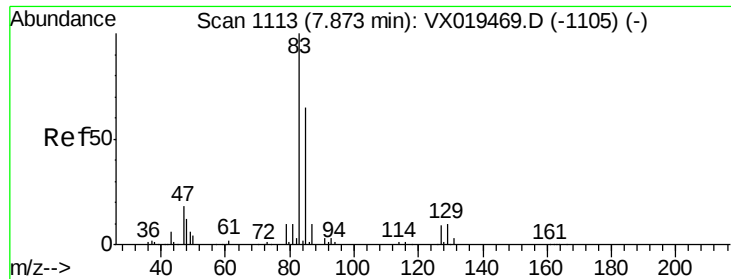
MMDadoda  
 11/20/2020 12:25:11 PM



#40  
 Dibromomethane  
 Concen: 18.416 ug/l  
 RT: 7.63 min Scan# 1074  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 82.5  | 0.0   | 162.4 |
| 174     | 98.8  | 0.0   | 198.8 |





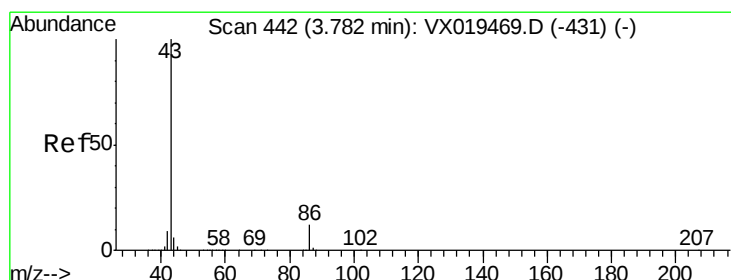
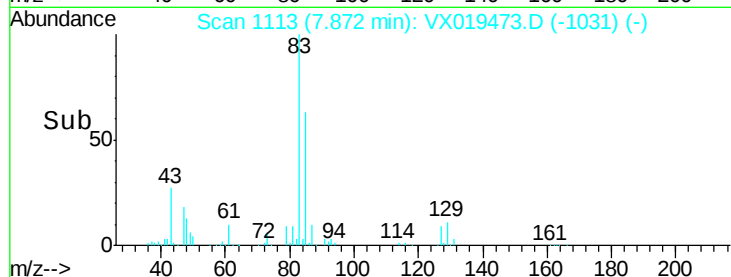
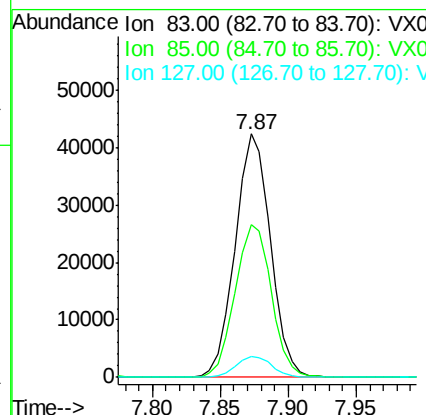
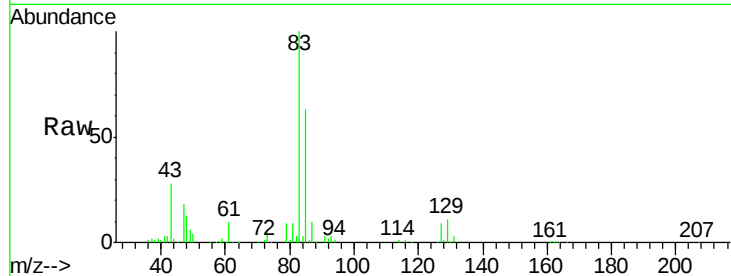
#41  
Bromodichloromethane  
Concen: 17.668 ug/l  
RT: 7.87 min Scan# 1113  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

| Tot Ion   | 83   | Resp  | 76955 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 83        | 100  |       |       |
| 85        | 62.8 | 51.7  | 77.5  |
| 127       | 8.8  | 7.0   | 10.6  |

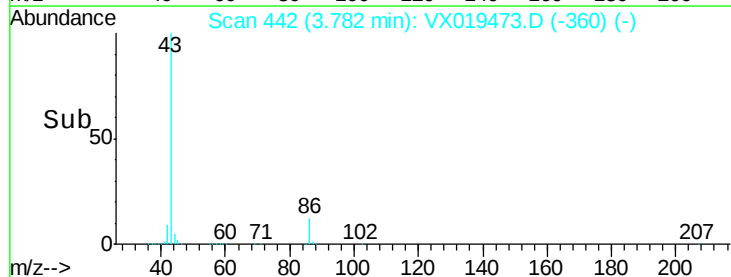
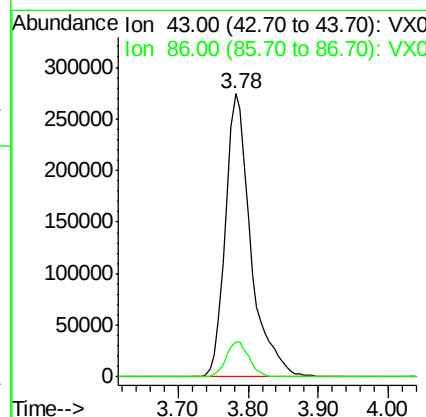
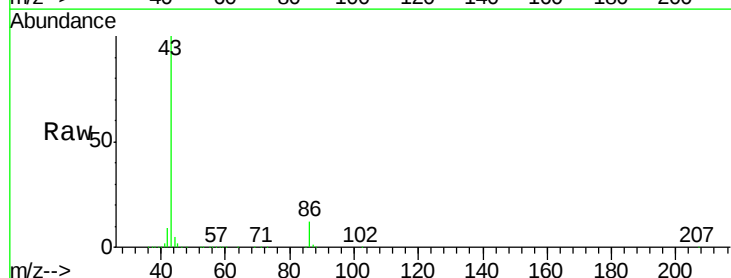
Manual Integrations  
APPROVED

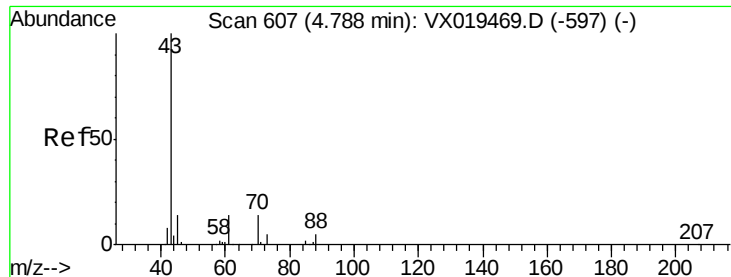
MMDadoda  
11/20/2020 12:25:11 PM



#42  
Vinyl Acetate  
Concen: 91.876 ug/l  
RT: 3.78 min Scan# 442  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

| Tgt Ion   | 43   | Resp  | 693360 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 43        | 100  |       |        |
| 86        | 11.4 | 8.8   | 13.2   |





#43

Ethyl Acetate

Concen: 18.750 ug/l

RT: 4.79 min Scan# 608

Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX112020

Tot Ion: 43 Resp: 75717

Ion Ratio Lower Upper

43 100

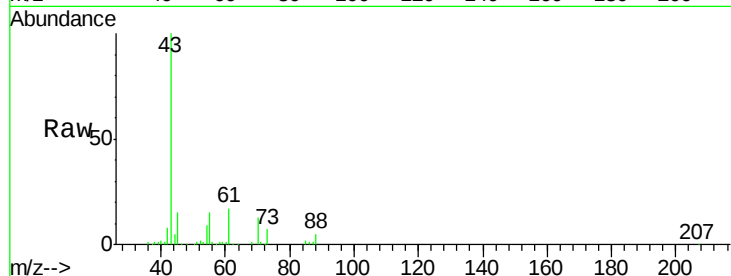
45 15.7 12.9 19.3

Manual Integrations

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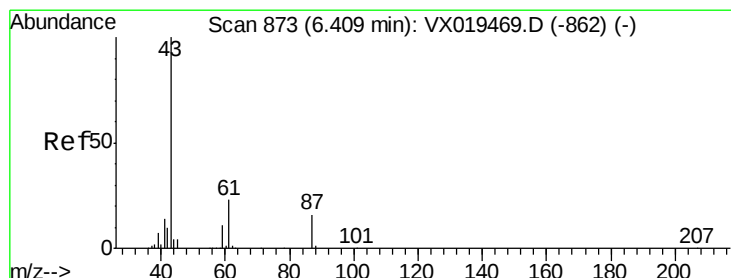
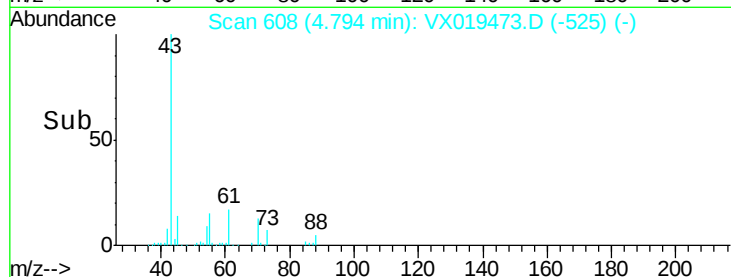
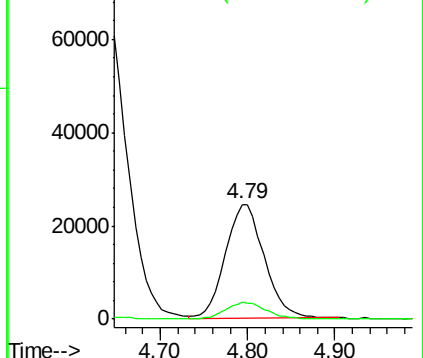
MMDadoda

11/20/2020 12:25:11 PM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#44

Isopropyl Acetate

Concen: 18.397 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.01 min

Lab File: VX019473.D

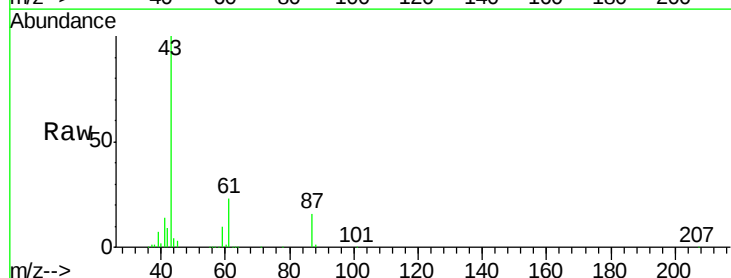
Acq: 19 Nov 2020 18:08

Tgt Ion: 43 Resp: 120576

Ion Ratio Lower Upper

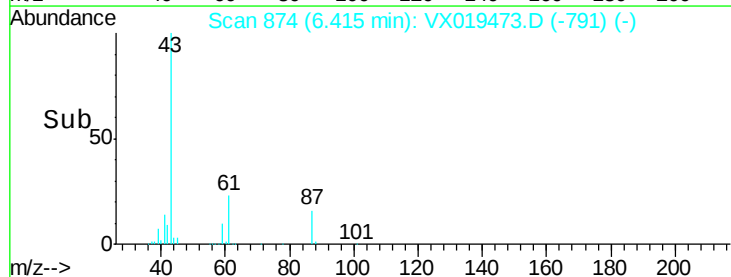
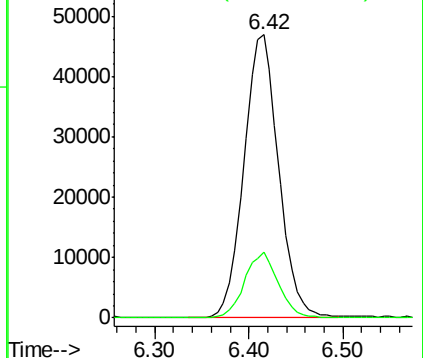
43 100

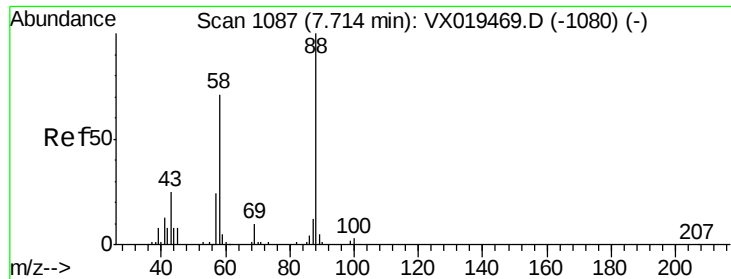
61 22.8 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





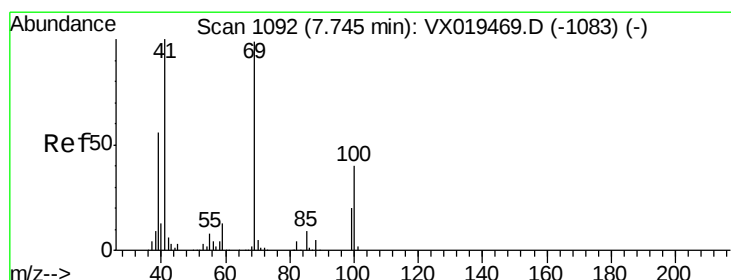
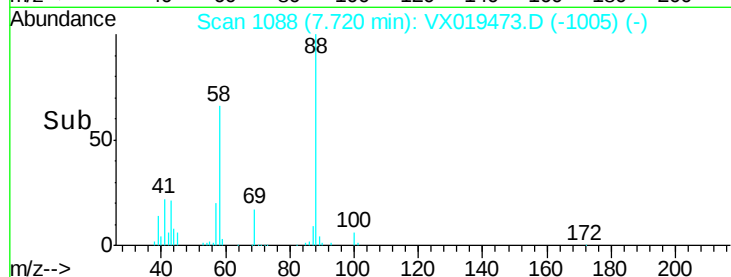
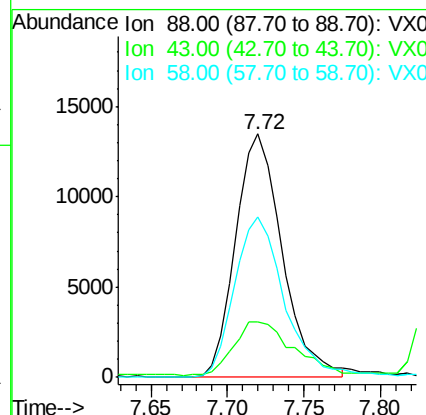
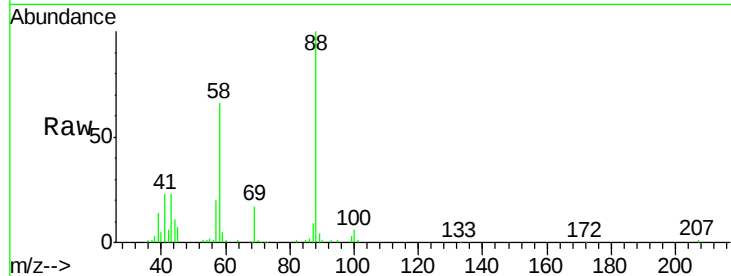
#45  
 1,4-Dioxane  
 Concen: 390.000 ug/l  
 RT: 7.72 min Scan# 1088  
 Delta R.T. 0.01 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112020

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 88      | 100   |      |       |       |
| 43      | 27.7  |      | 24.2  | 36.4  |
| 58      | 70.5  |      | 56.6  | 84.8  |

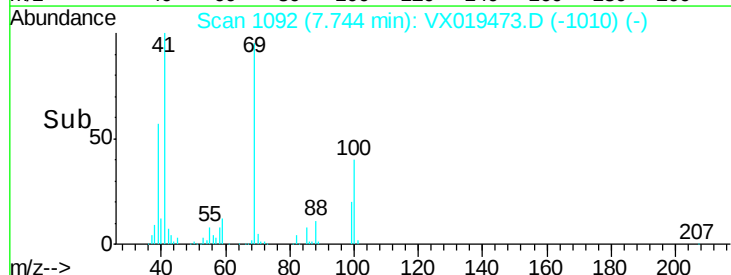
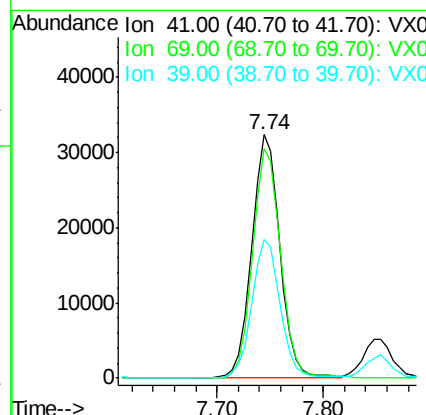
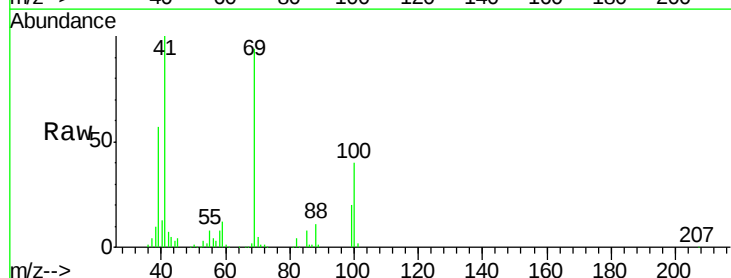
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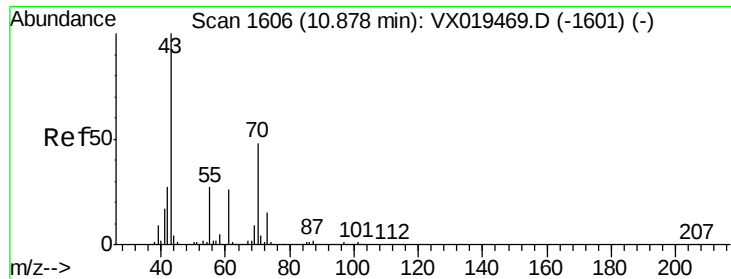
MMDadoda  
 11/20/2020 12:25:11 PM



#46  
 Methyl methacrylate  
 Concen: 18.607 ug/l  
 RT: 7.74 min Scan# 1092  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 41      | 100   |      |       |       |
| 69      | 94.6  |      | 49.7  | 149.1 |
| 39      | 57.2  |      | 28.1  | 84.4  |





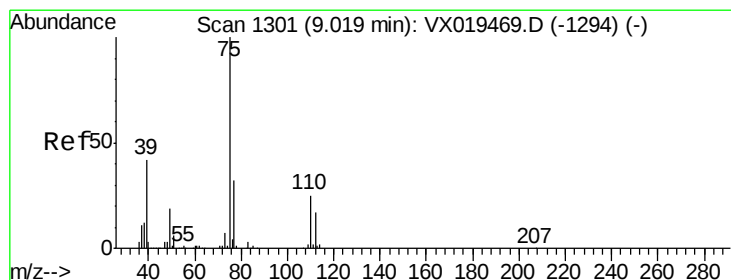
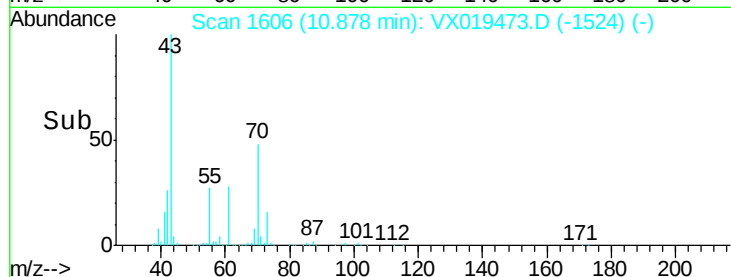
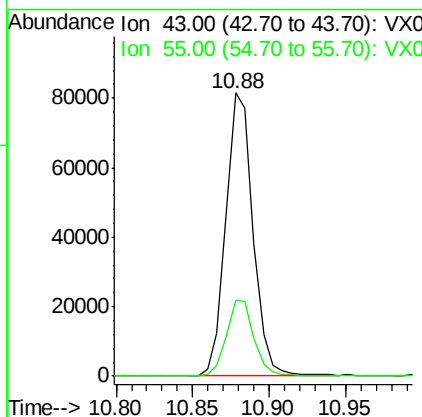
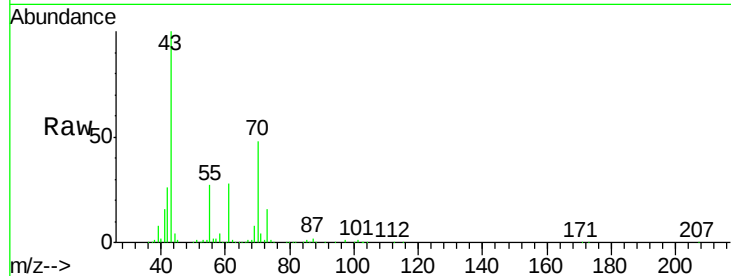
#47  
n-amvl Acetate  
Concen: 18.318 ug/l  
RT: 10.88 min Scan# 1606  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

Tot Ion: 43 Resp: 100189  
Ion Ratio Lower Upper  
43 100  
55 27.5 22.8 34.2

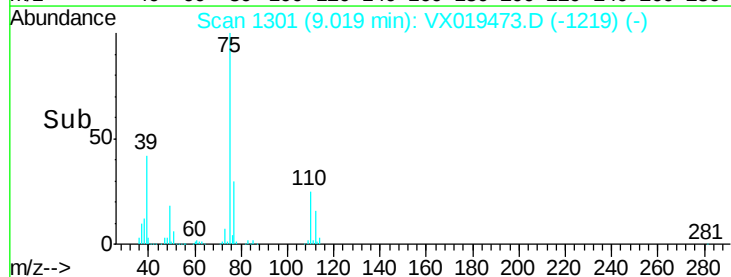
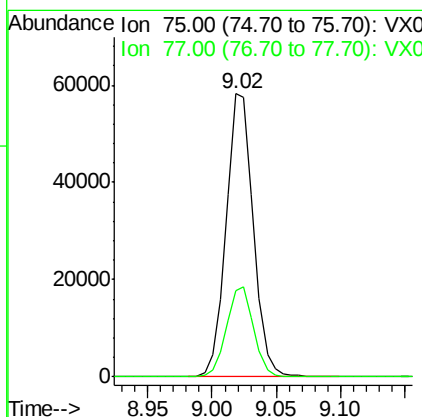
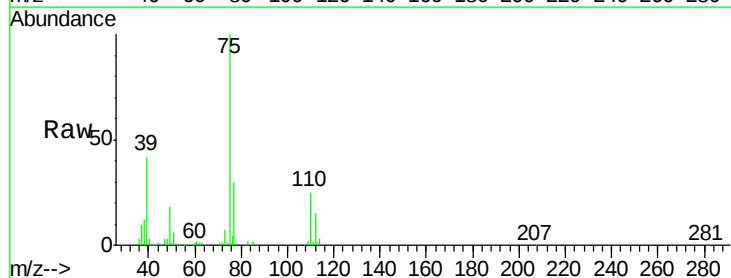
Manual Integrations  
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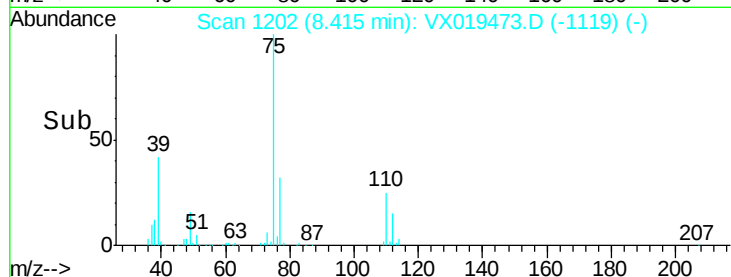
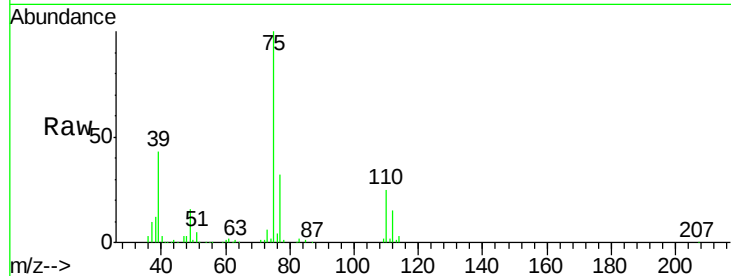
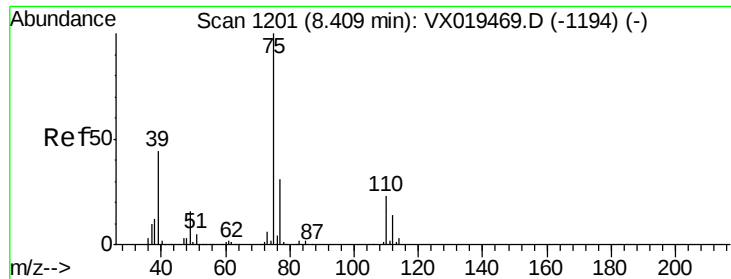
MMDadoda  
11/20/2020 12:25:11 PM



#48  
t-1,3-Dichloropropene  
Concen: 18.319 ug/l  
RT: 9.02 min Scan# 1301  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Tgt Ion: 75 Resp: 86640  
Ion Ratio Lower Upper  
75 100  
77 30.5 25.4 38.2





#49

cis-1,3-Dichloropropene

Concen: 18.122 ug/l

RT: 8.41 min Scan# 1202

Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 75    | Resp: | 94676 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 77       | 31.7  | 24.7  | 37.1  |
| 39       | 42.5  | 35.3  | 52.9  |

Instrument :

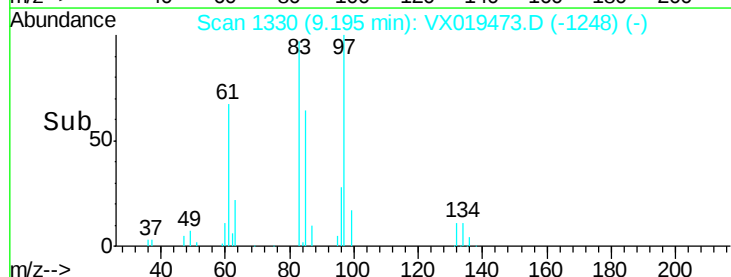
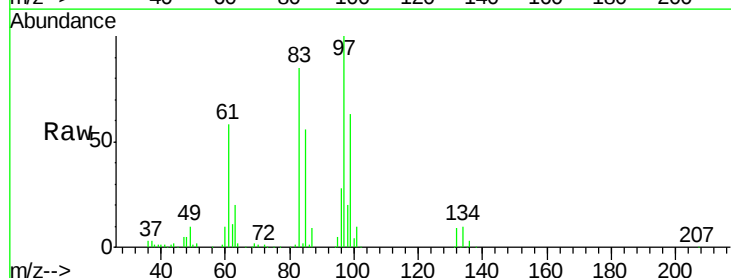
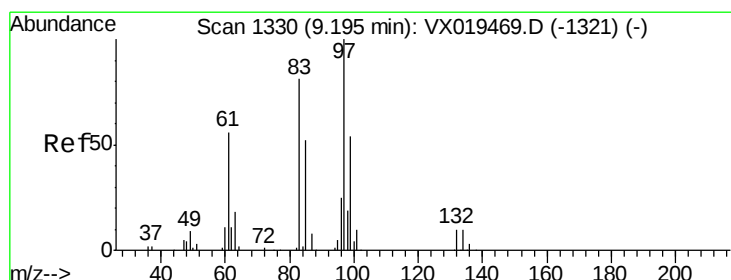
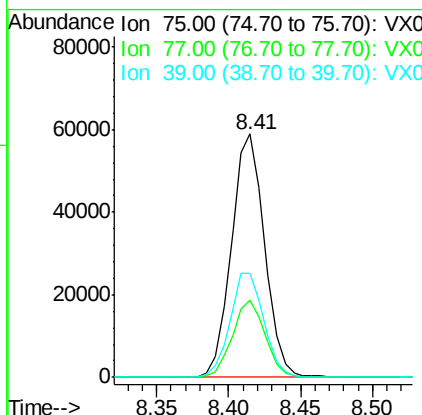
MSVOA\_X

ClientSampleId :

ICVVX112020

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#50

1,1,2-Trichloroethane

Concen: 18.226 ug/l

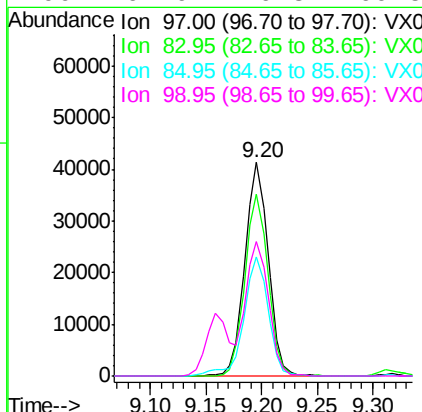
RT: 9.20 min Scan# 1330

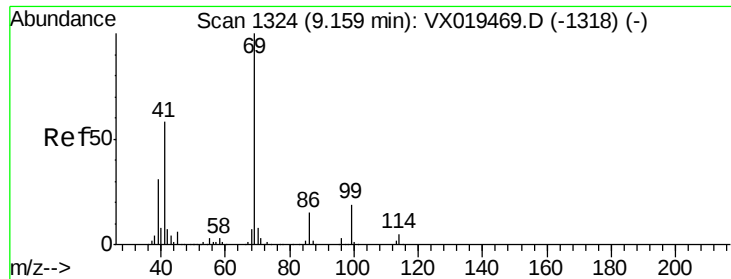
Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 60494 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 84.9  | 64.8  | 97.2  |
| 85       | 55.9  | 41.8  | 62.8  |
| 99       | 62.9  | 46.3  | 69.5  |





#51

Ethyl methacrylate

Concen: 18.603 ug/l

RT: 9.16 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

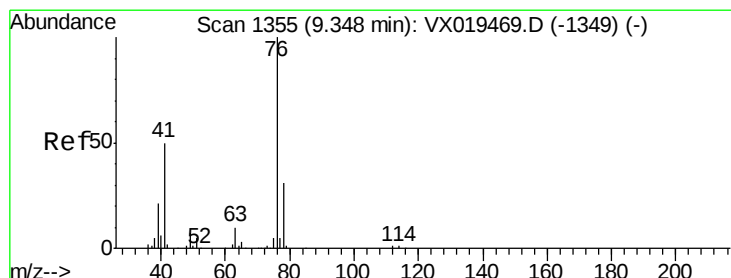
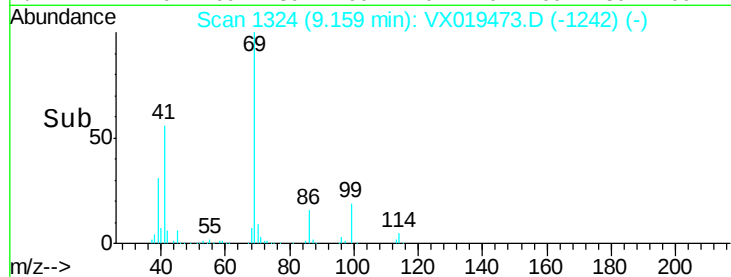
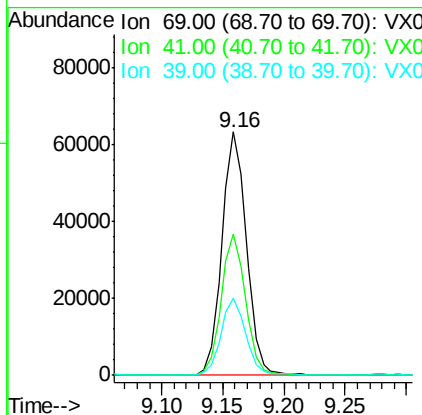
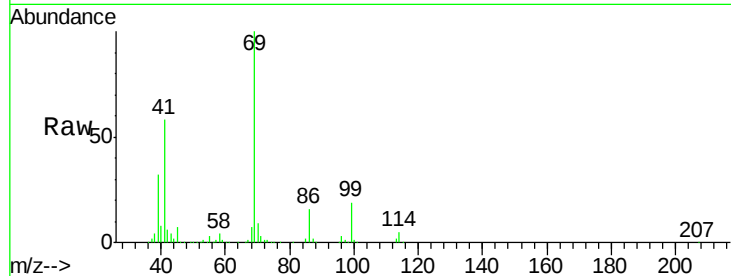
ClientSampleId :

ICVVX112020

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 69    | Resp: | 88364 |
| Ion      | Ratio | Lower | Upper |
| 69       | 100   |       |       |
| 41       | 57.7  | 29.0  | 87.1  |
| 39       | 31.5  | 15.4  | 46.4  |

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#52

1,3-Dichloropropane

Concen: 18.298 ug/l

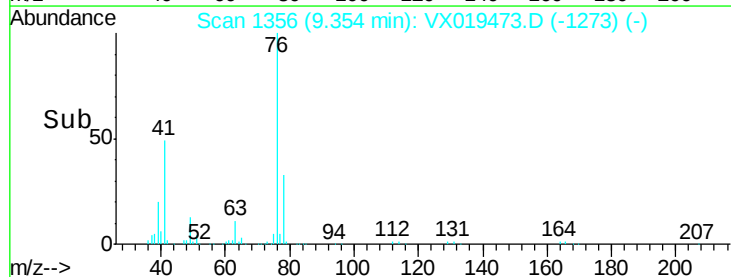
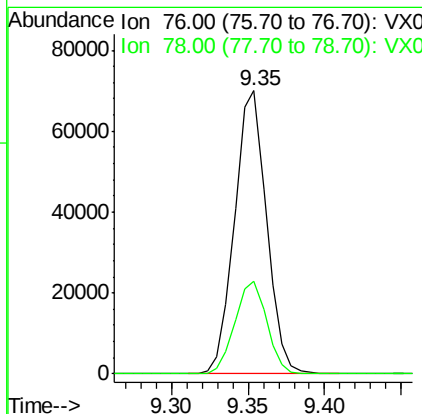
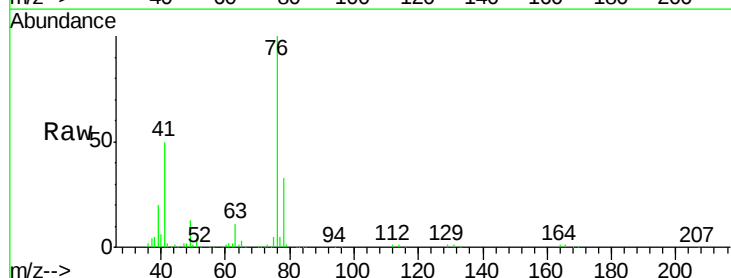
RT: 9.35 min Scan# 1356

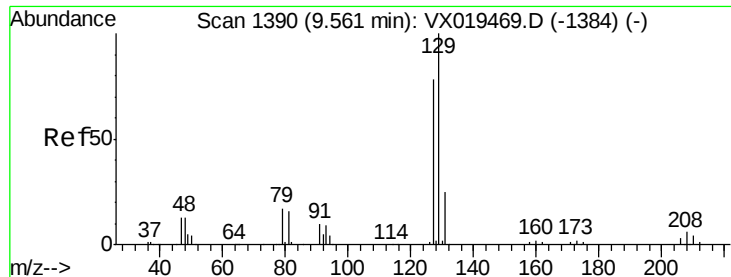
Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 76    | Resp: | 101429 |
| Ion      | Ratio | Lower | Upper  |
| 76       | 100   |       |        |
| 78       | 32.8  | 0.0   | 63.4   |





#53

Dibromochloromethane

Concen: 18.268 ug/l

RT: 9.56 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX112020

Tot Ion:129 Resp: 60435

Ion Ratio Lower Upper

129 100

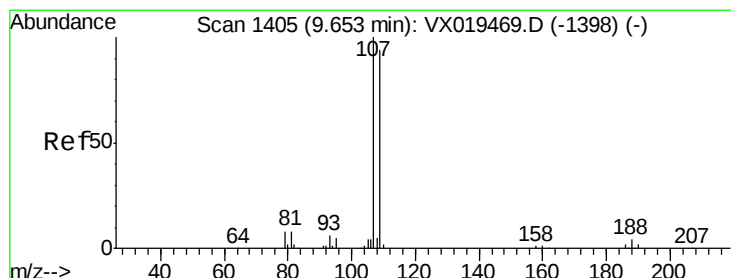
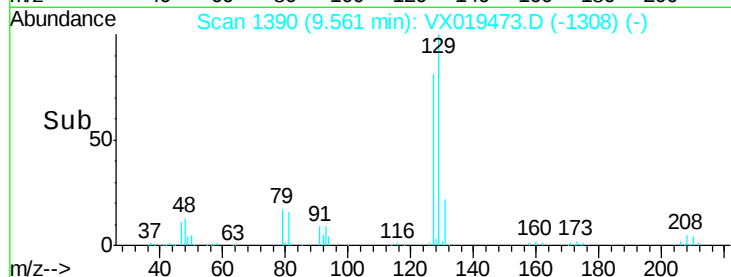
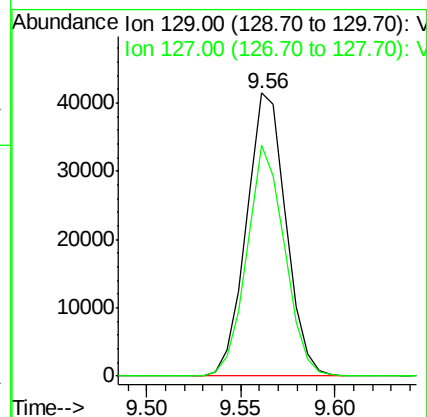
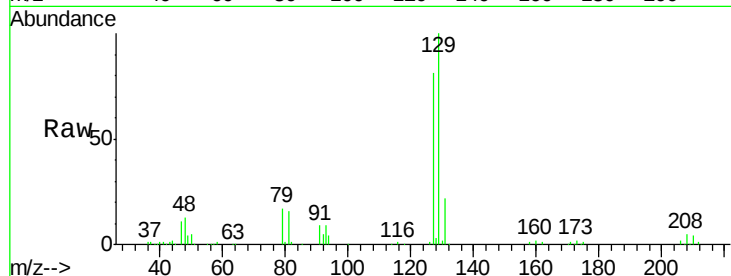
127 77.9 38.0 114.1

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#54

1,2-Dibromoethane

Concen: 18.456 ug/l

RT: 9.65 min Scan# 1405

Delta R.T. -0.00 min

Lab File: VX019473.D

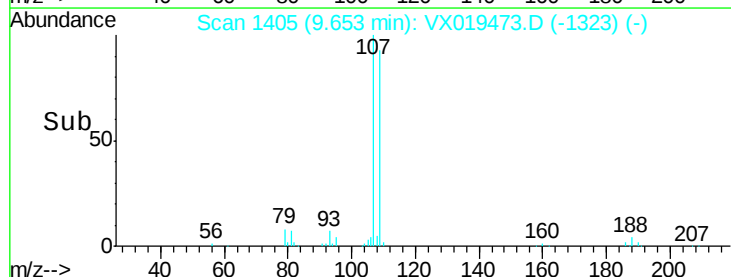
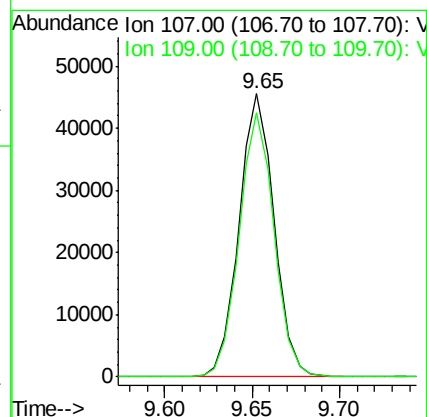
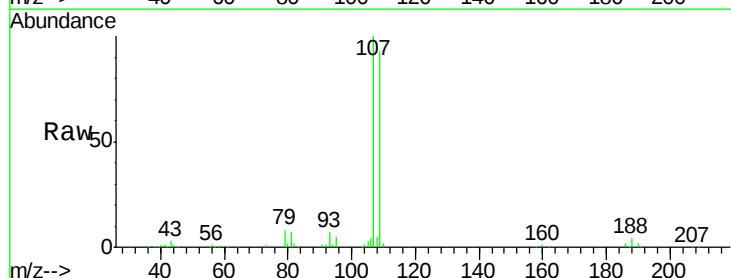
Acq: 19 Nov 2020 18:08

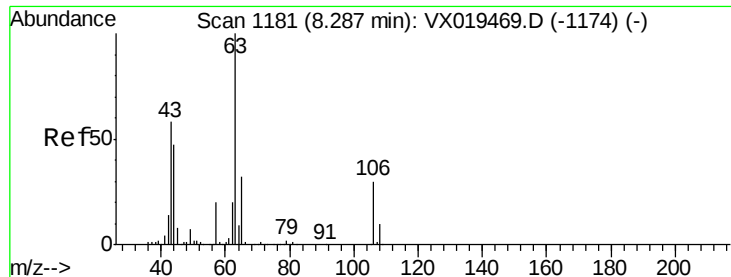
Tgt Ion:107 Resp: 63332

Ion Ratio Lower Upper

107 100

109 92.4 74.2 111.4





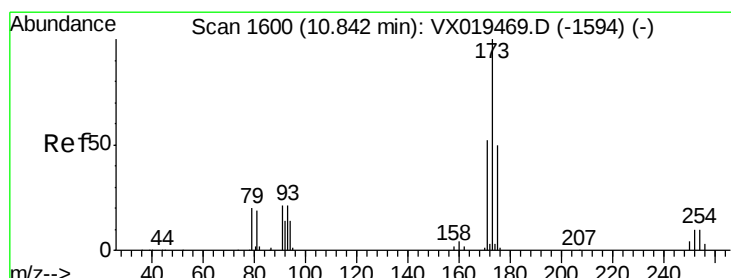
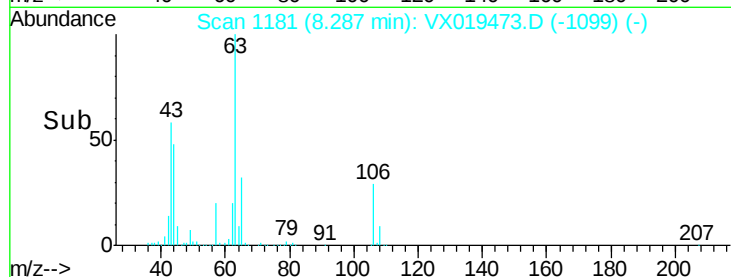
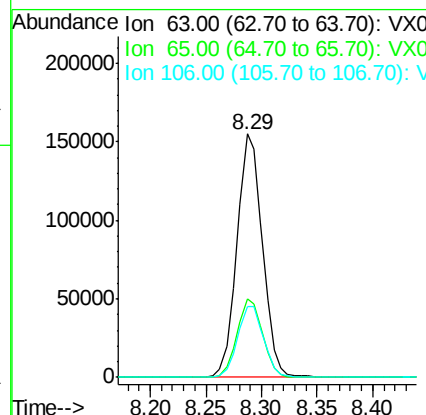
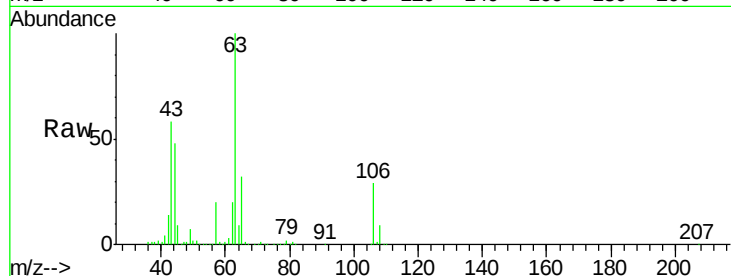
#55  
2-Chloroethyl vinyl ether  
Concen: 93.830 ug/l  
RT: 8.29 min Scan# 1181  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 32.6  | 25.7  | 38.5  |
| 106     | 30.0  | 24.2  | 36.4  |

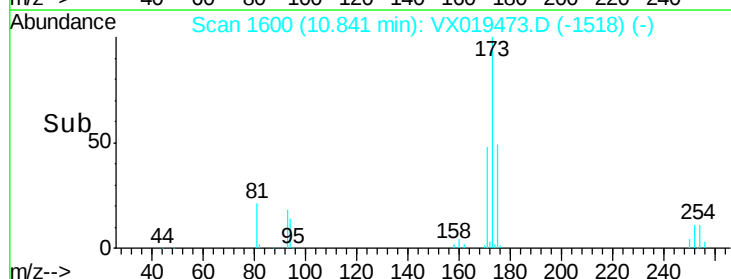
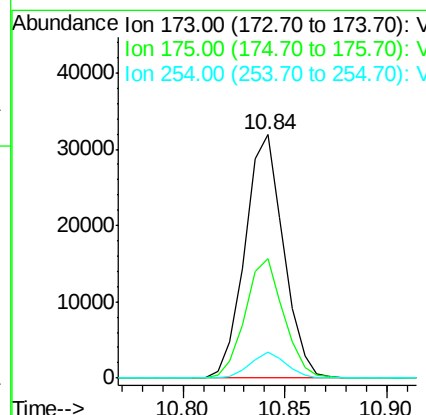
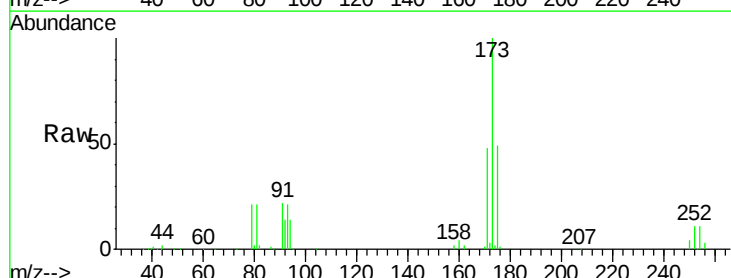
Manual Integrations  
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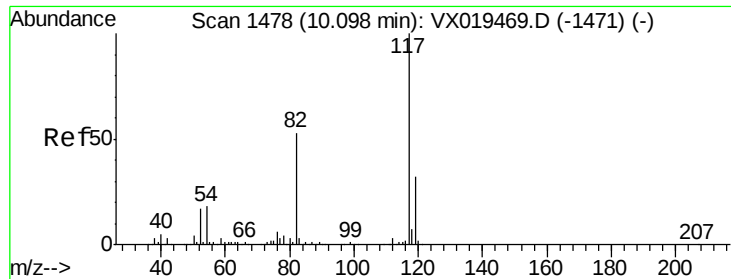
MMDadoda  
11/20/2020 12:25:11 PM



#56  
Bromoform  
Concen: 17.902 ug/l  
RT: 10.84 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 48.7  | 39.7  | 59.5  |
| 254     | 10.1  | 8.0   | 12.0  |





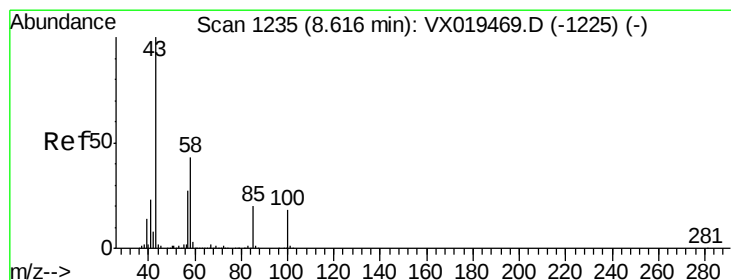
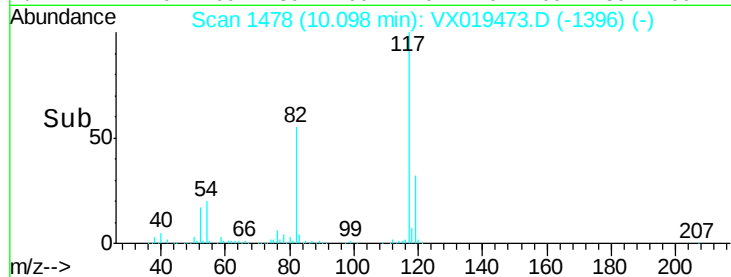
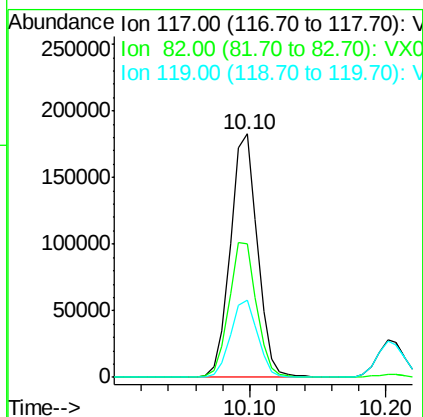
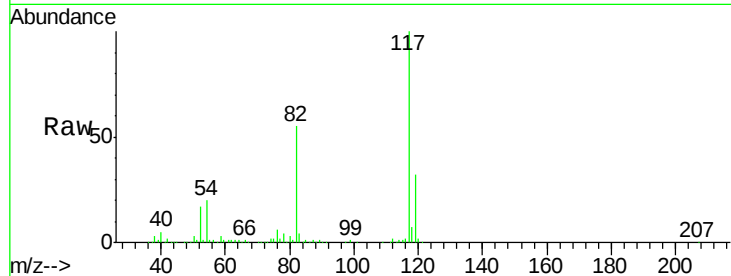
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 117     | 100   |            |       |
| 82      | 56.5  | 44.5       | 66.7  |
| 119     | 31.8  | 25.9       | 38.9  |

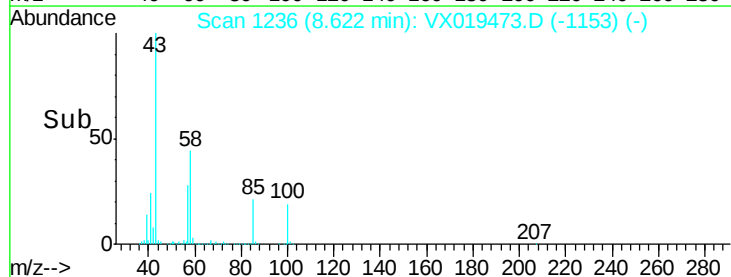
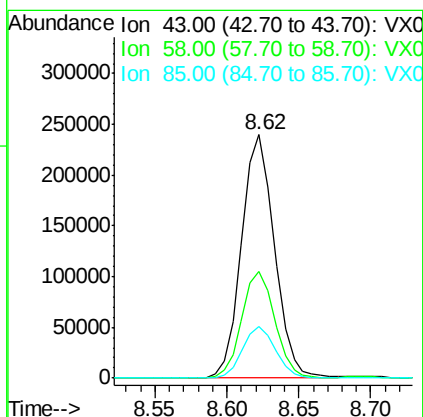
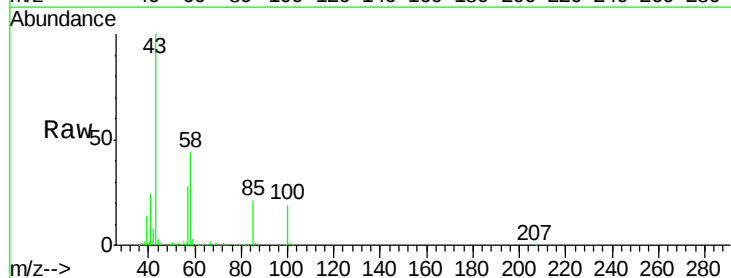
Manual Integrations  
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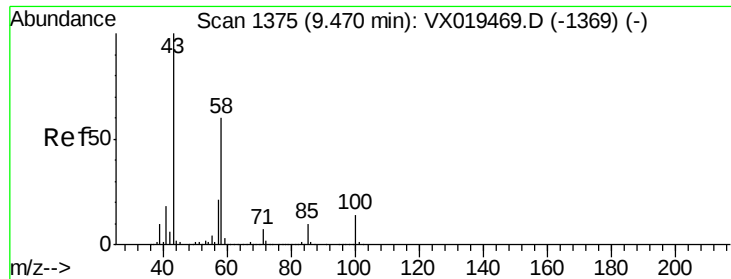
MMDadoda  
11/20/2020 12:25:11 PM



#58  
4-Methyl-2-Pentanone  
Concen: 93.984 ug/l  
RT: 8.62 min Scan# 1236  
Delta R.T. 0.01 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 43      | 100   |            |       |
| 58      | 44.3  | 35.1       | 52.7  |
| 85      | 21.3  | 16.7       | 25.1  |





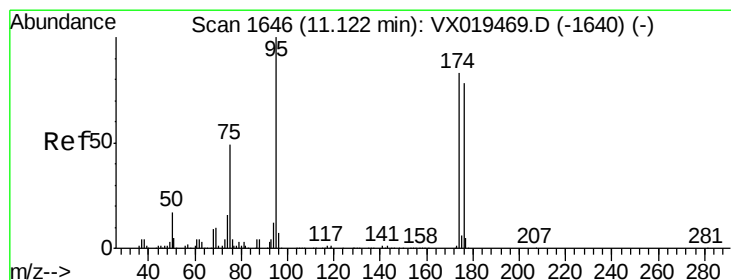
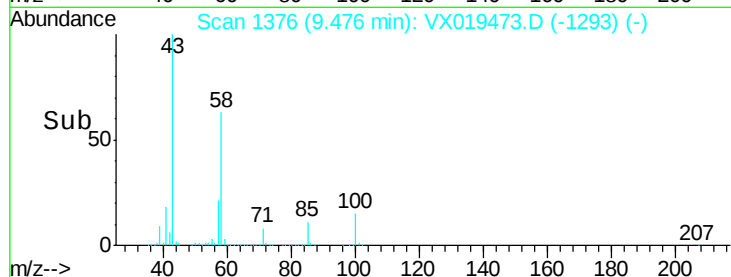
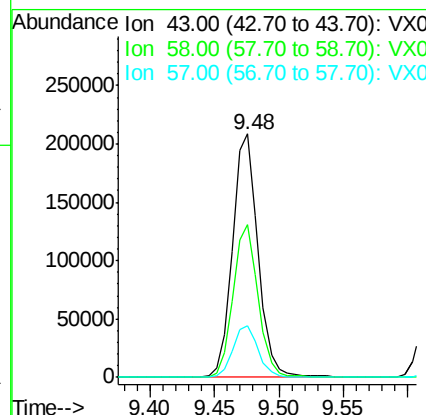
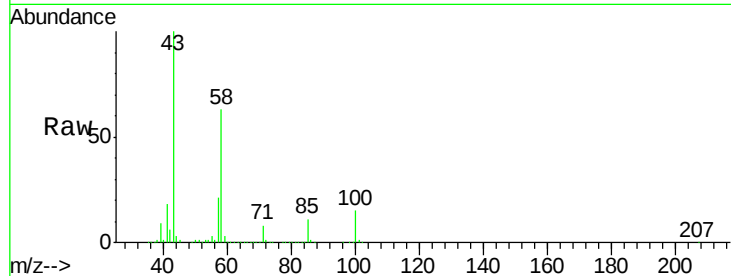
#59  
2-Hexanone  
Concen: 92.654 ug/l  
RT: 9.48 min Scan# 1376  
Delta R.T. 0.01 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 43      | 100   | 288550 |       |       |
| 58      | 62.1  | 49.0   | 73.6  |       |
| 57      | 21.5  | 17.0   | 25.4  |       |

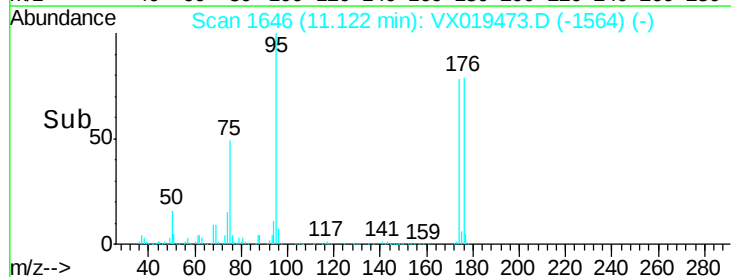
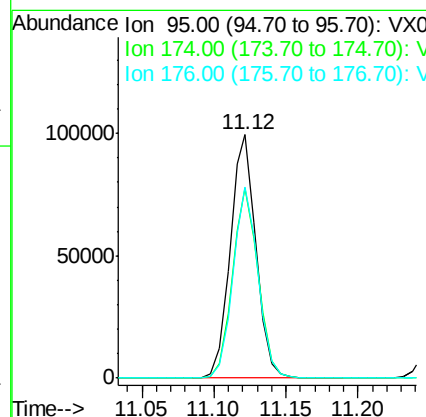
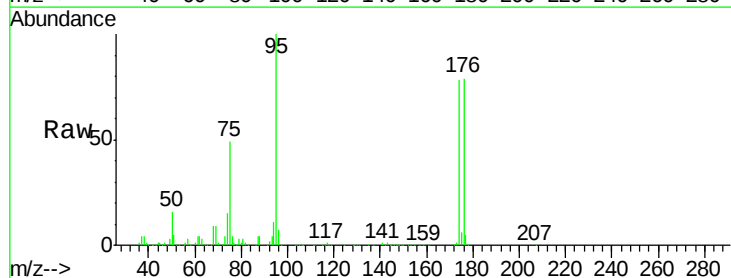
Manual Integrations  
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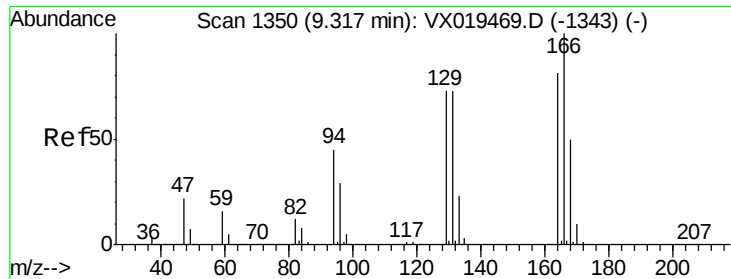
MMDadoda  
11/20/2020 12:25:11 PM



#60  
4-Bromofluorobenzene  
Concen: 30.365 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 125162 |       |       |
| 174     | 77.5  | 63.5   | 95.3  |       |
| 176     | 76.5  | 59.8   | 89.6  |       |





#61

Tetrachloroethene

Concen: 18.123 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX112020

Tot Ion:164 Resp: 59691

Ion Ratio Lower Upper

164 100

166 127.4 99.4 149.0

129 91.2 72.6 108.8

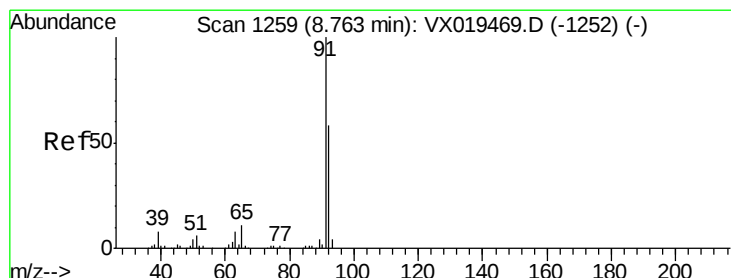
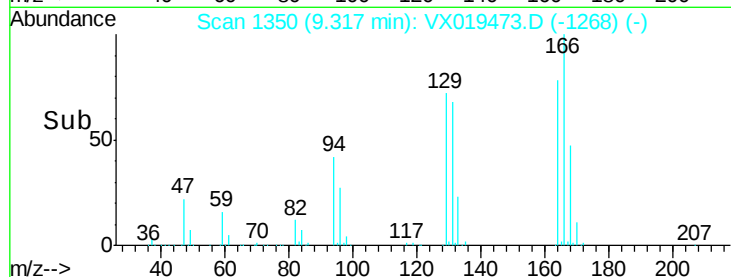
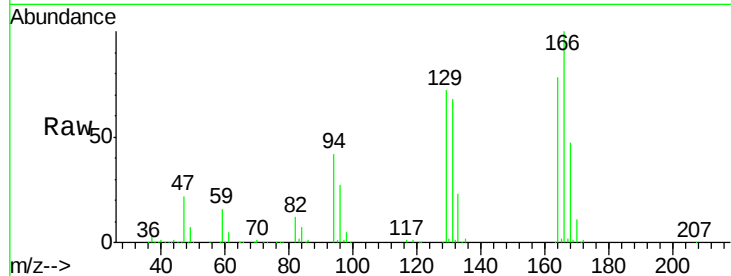
131 86.7 72.6 108.8

Manual Integrations

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#62

Toluene

Concen: 18.051 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX019473.D

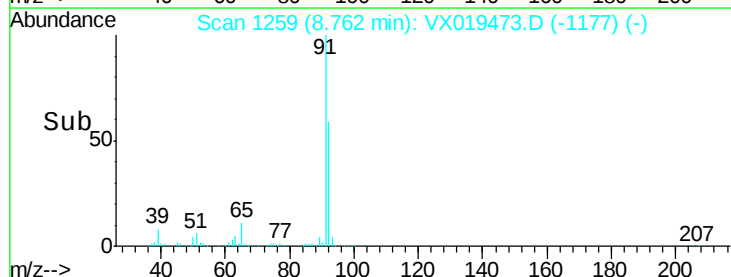
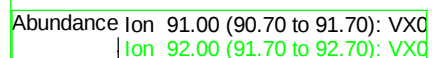
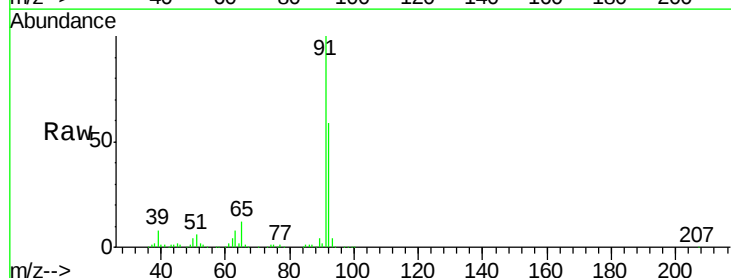
Acq: 19 Nov 2020 18:08

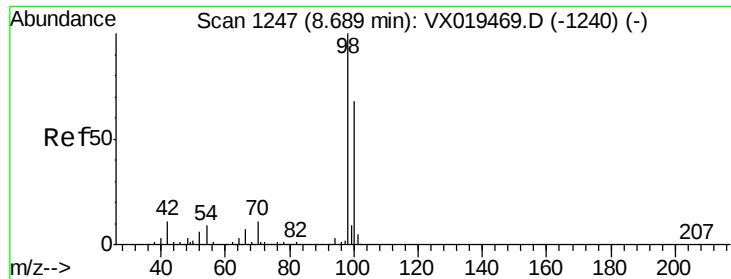
Tgt Ion: 91 Resp: 255193

Ion Ratio Lower Upper

91 100

92 58.9 47.4 71.2





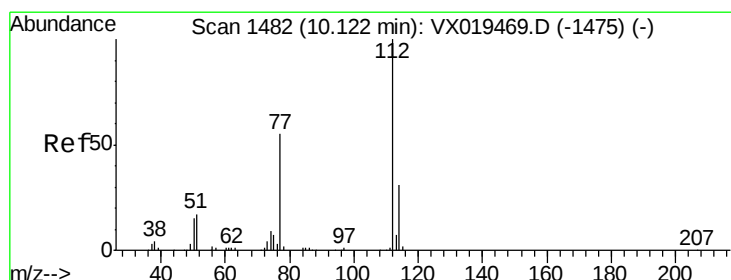
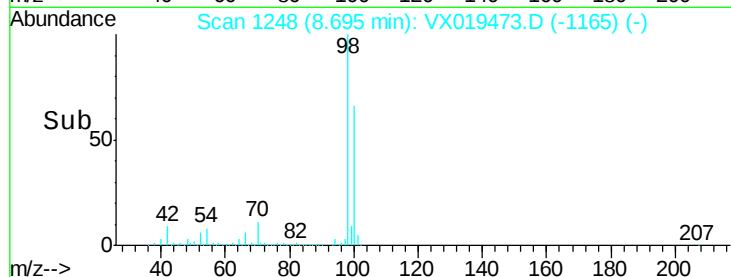
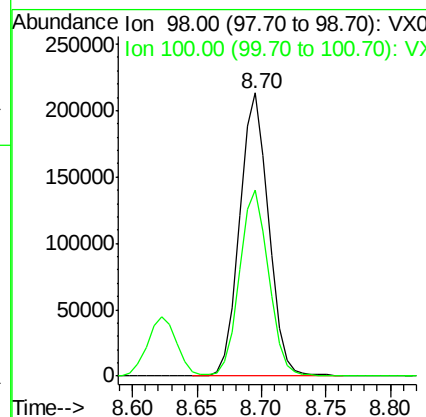
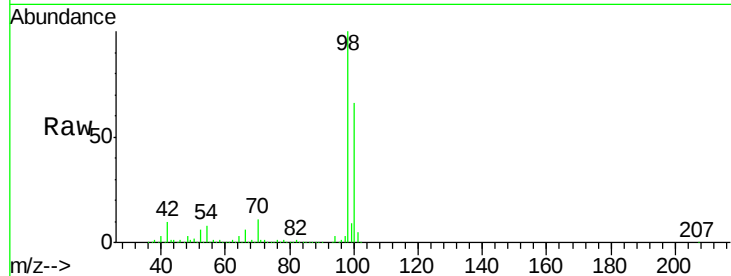
#63  
Toluene-d8  
Concen: 29.526 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. 0.01 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

Tot Ion: 98 Resp: 332638  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.6 80.4

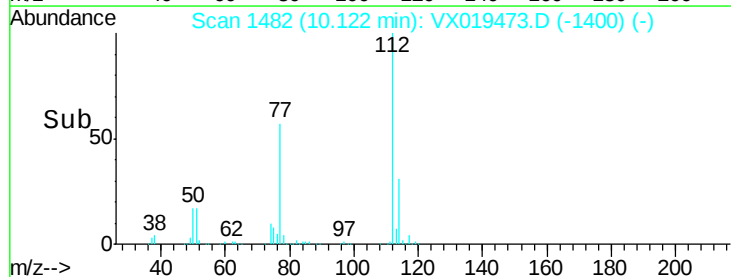
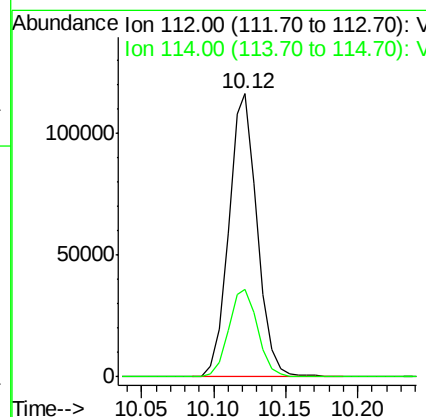
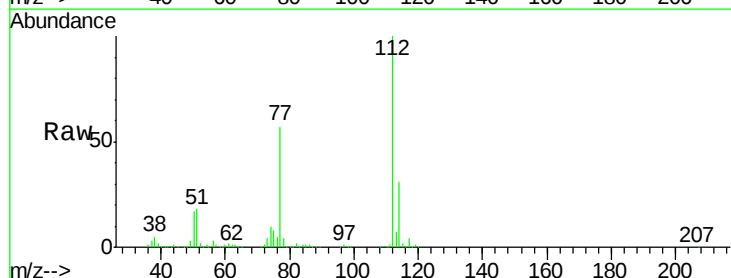
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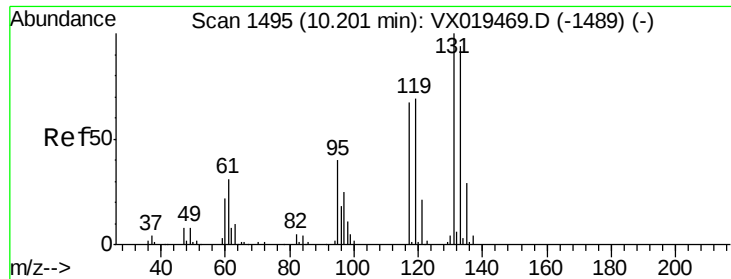
MMDadoda  
11/20/2020 12:25:11 PM



#64  
Chlorobenzene  
Concen: 18.662 ug/l  
RT: 10.12 min Scan# 1482  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Tgt Ion: 112 Resp: 160685  
Ion Ratio Lower Upper  
112 100  
114 31.1 24.8 37.2





#65

1,1,1,2-Tetrachloroethane

Concen: 17.907 ug/l

RT: 10.20 min Scan# 1495

Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

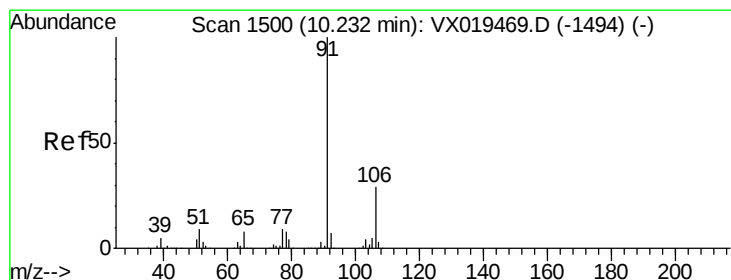
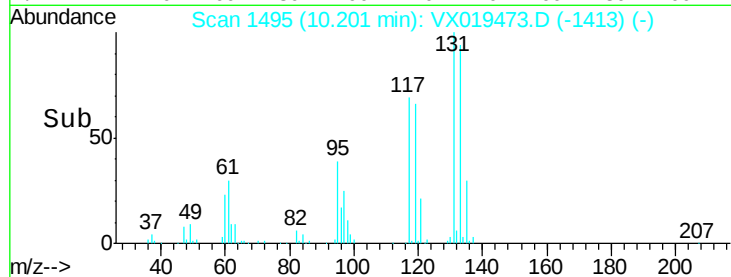
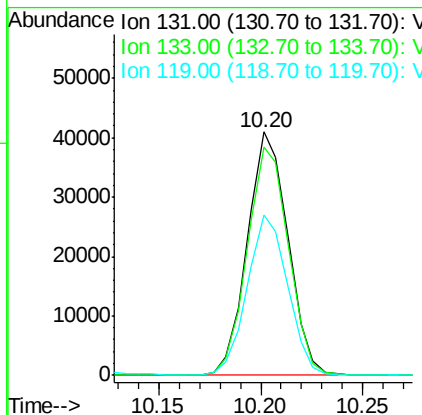
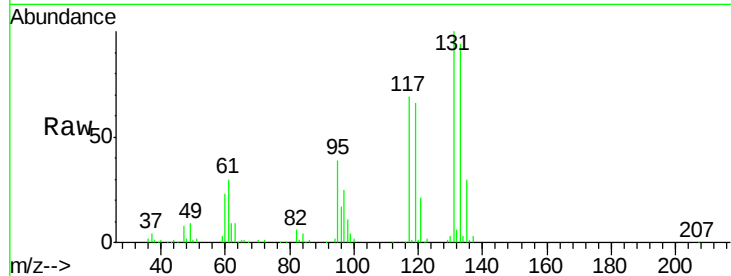
ClientSampleId :

ICVVX112020

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 131   | Resp: | 56760 |
| Ion      | Ratio | Lower | Upper |
| 131      | 100   |       |       |
| 133      | 95.6  | 0.0   | 189.4 |
| 119      | 66.0  | 0.0   | 130.4 |

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#66

Ethyl Benzene

Concen: 18.149 ug/l

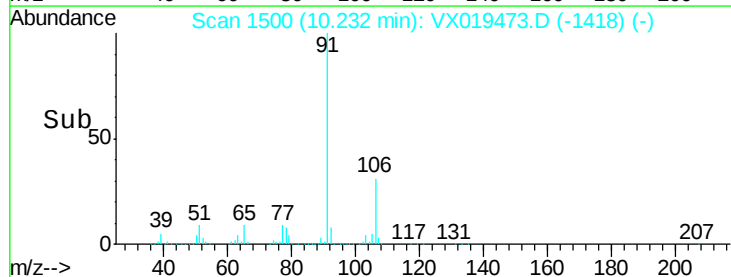
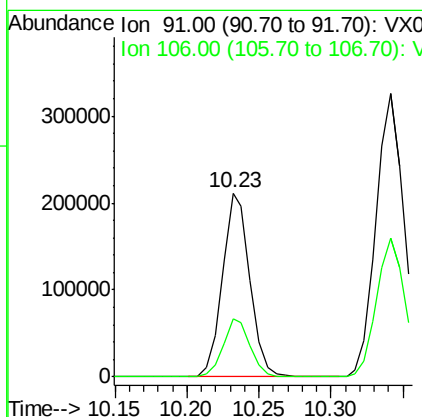
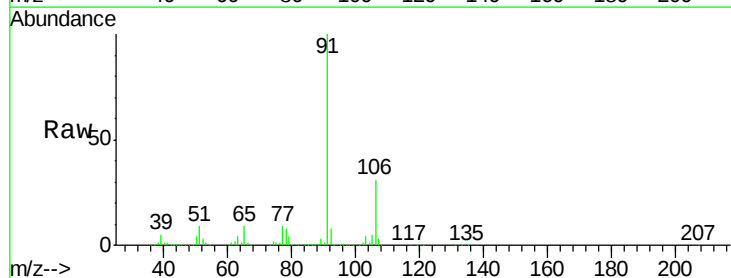
RT: 10.23 min Scan# 1500

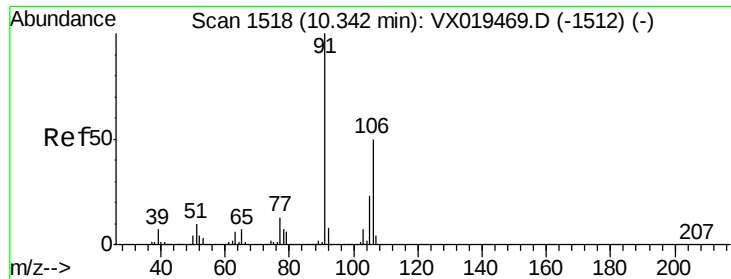
Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 281133 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 106      | 31.5  | 23.5  | 35.3   |





#67

m/p-Xvlenes

Concen: 37.062 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX112020

Tot Ion:106 Resp: 215014

Ion Ratio Lower Upper

106 100

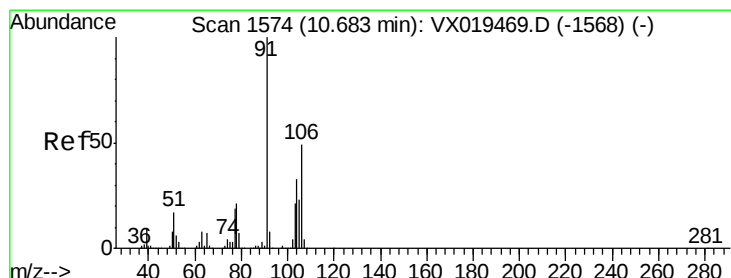
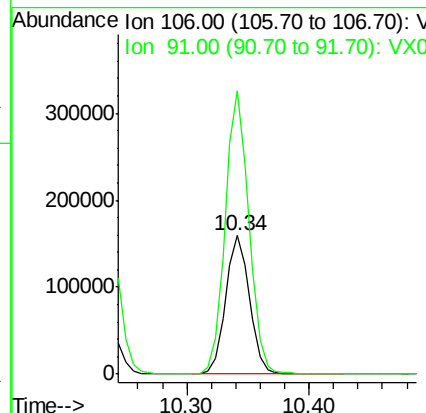
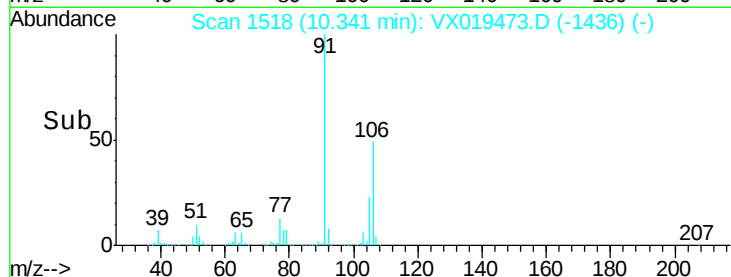
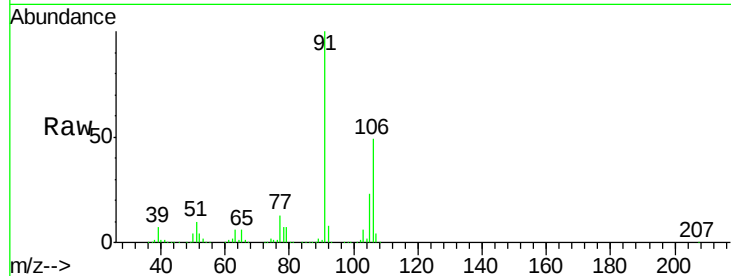
91 202.8 162.7 244.1

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#68

o-Xylene

Concen: 18.715 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX019473.D

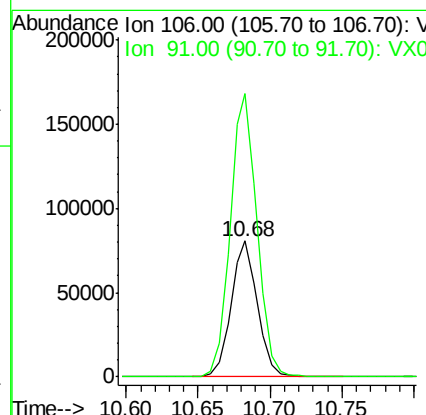
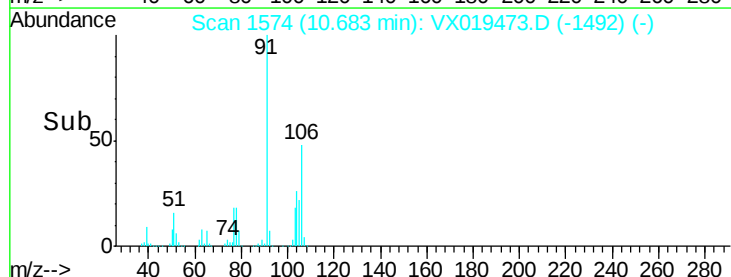
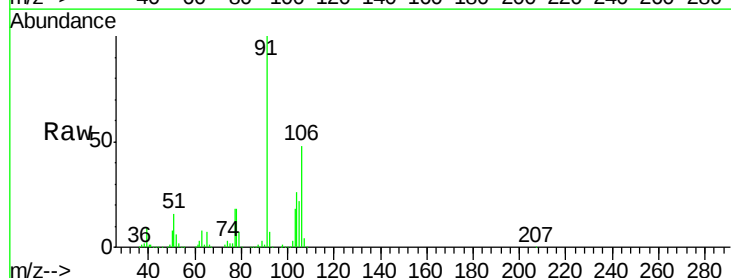
Acq: 19 Nov 2020 18:08

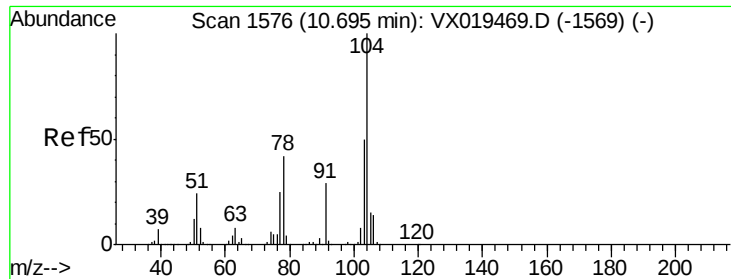
Tgt Ion:106 Resp: 102913

Ion Ratio Lower Upper

106 100

91 212.6 108.3 324.9





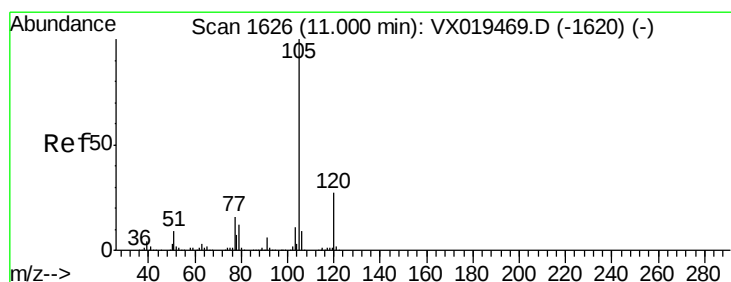
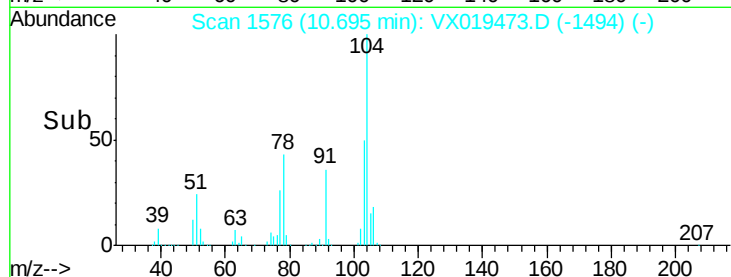
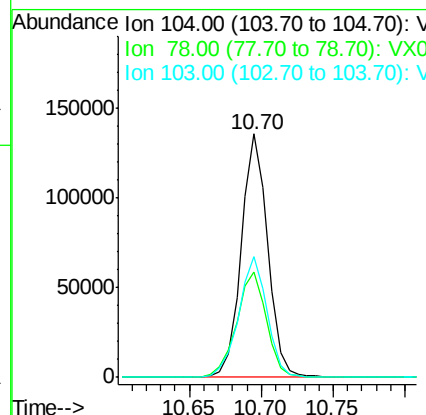
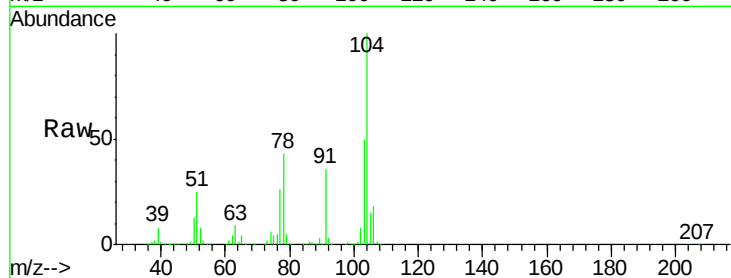
#69  
Stvrene  
Concen: 18.477 ug/l  
RT: 10.70 min Scan# 1576  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 49.0  | 39.2  | 58.8  |
| 103     | 53.7  | 43.8  | 65.8  |

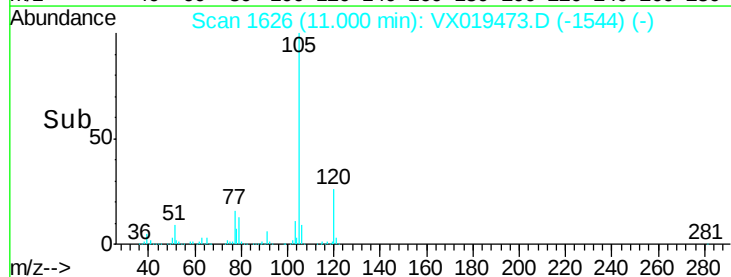
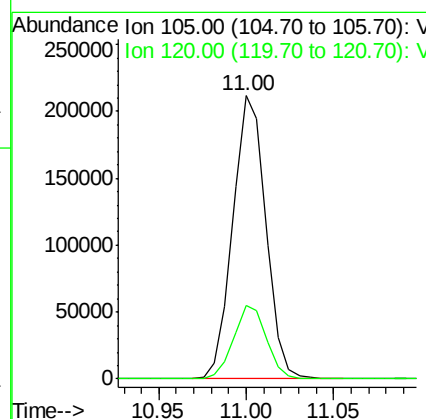
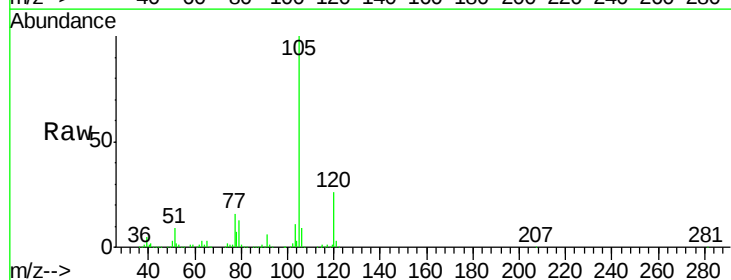
Manual Integrations  
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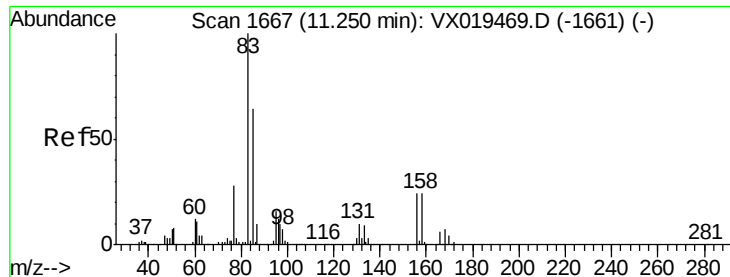
MMDadoda  
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#70  
Isopropylbenzene  
Concen: 18.587 ug/l  
RT: 11.00 min Scan# 1626  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.9  | 18.5  | 34.3  |





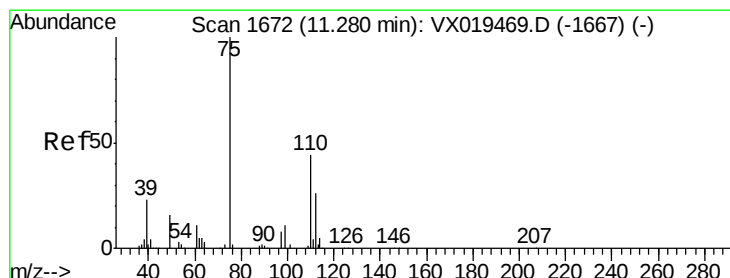
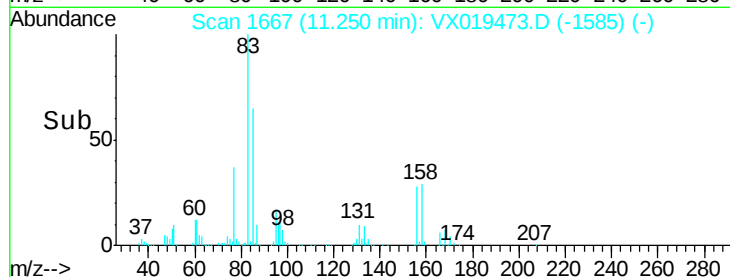
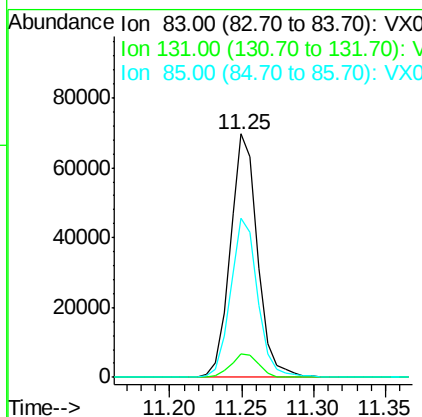
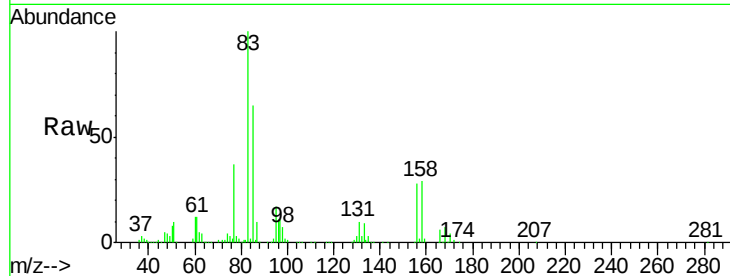
#71  
 1,1,2,2-Tetrachloroethane  
 Concen: 18.102 ug/l  
 RT: 11.25 min Scan# 1667  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 10.1  | 4.9   | 14.7  |
| 85      | 65.4  | 31.6  | 94.8  |

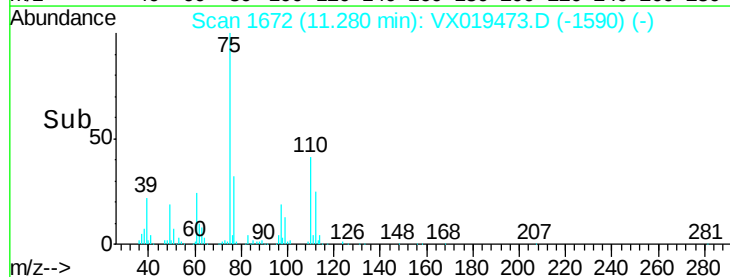
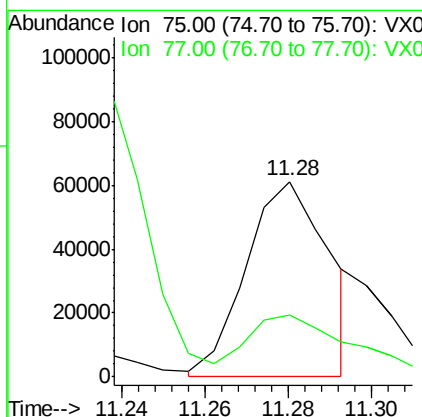
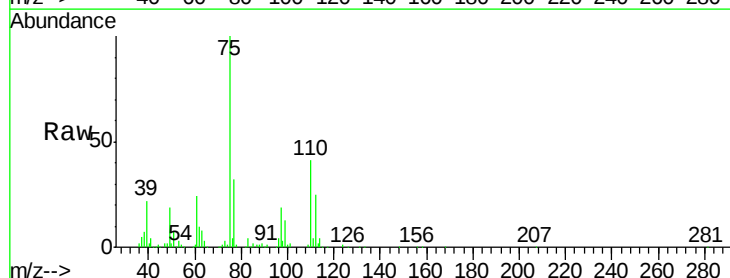
Manual Integrations  
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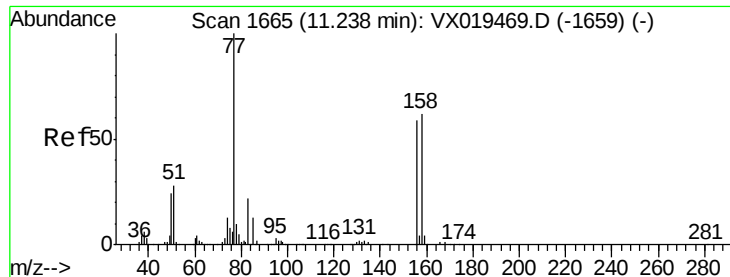
MMDadoda  
 11/20/2020 12:25:11 PM



#72  
 1,2,3-Trichloropropane  
 Concen: 18.440 ug/l m  
 RT: 11.28 min Scan# 1672  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 40.2  | 0.0   | 78.4  |





#73

Bromobenzene

Concen: 18.296 ug/l

RT: 11.24 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

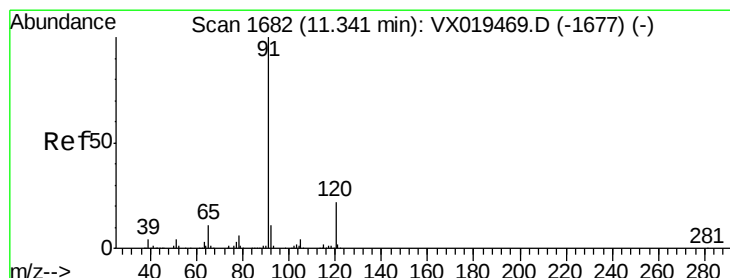
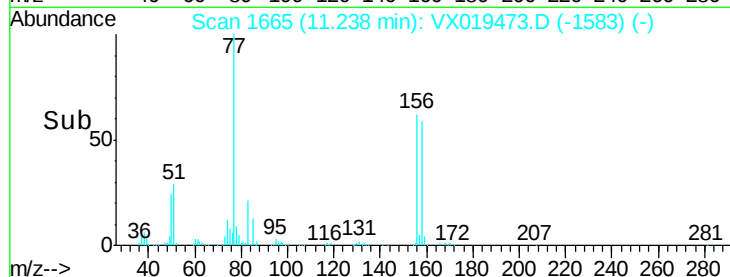
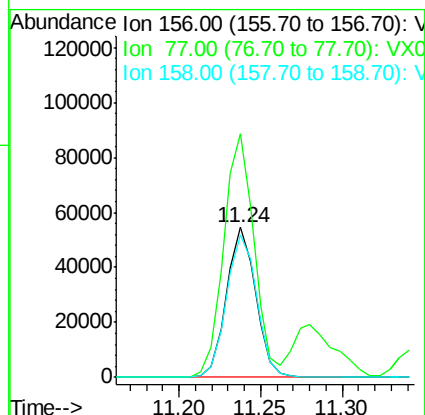
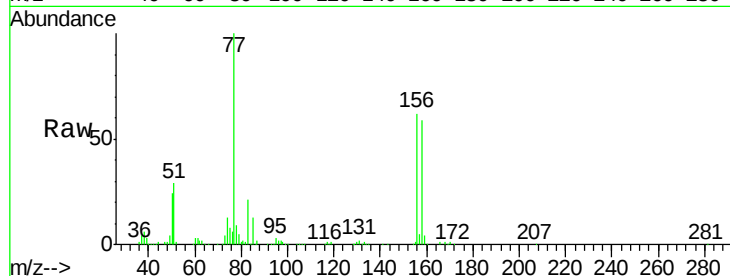
ClientSampleId :

ICVVX112020

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 156   | Resp: | 68027 |
| Ion      | Ratio | Lower | Upper |
| 156      | 100   |       |       |
| 77       | 167.9 | 0.0   | 329.0 |
| 158      | 98.3  | 0.0   | 197.0 |

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#74

n-propylbenzene

Concen: 18.520 ug/l

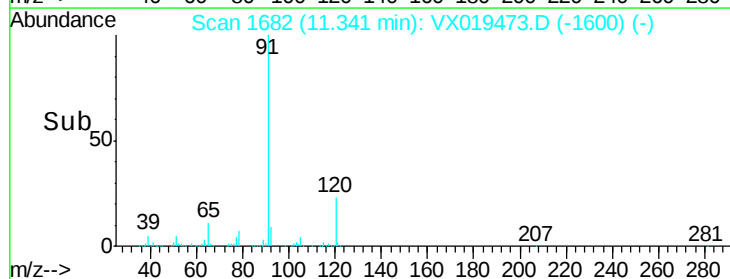
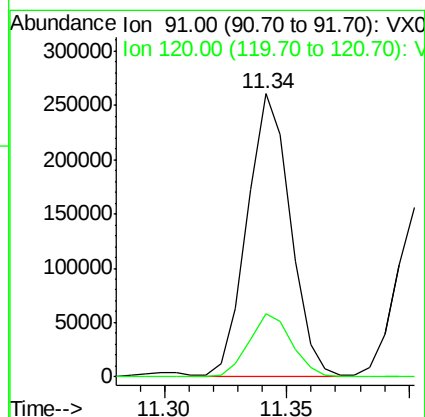
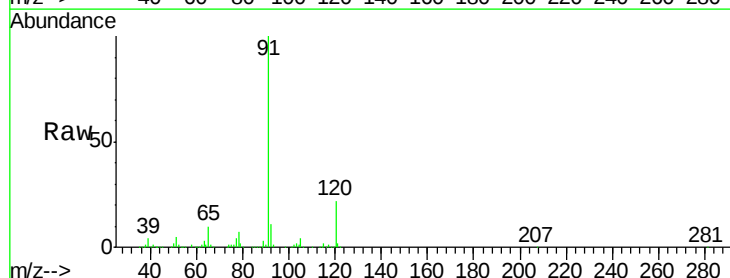
RT: 11.34 min Scan# 1682

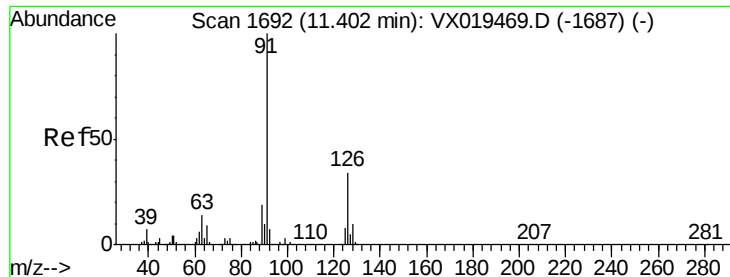
Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 321020 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 120      | 22.0  | 0.0   | 45.6   |





#75

2-Chlorotoluene

Concen: 18.677 ug/l

RT: 11.40 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX112020

Tot Ion: 91 Resp: 194106

Ion Ratio Lower Upper

91 100

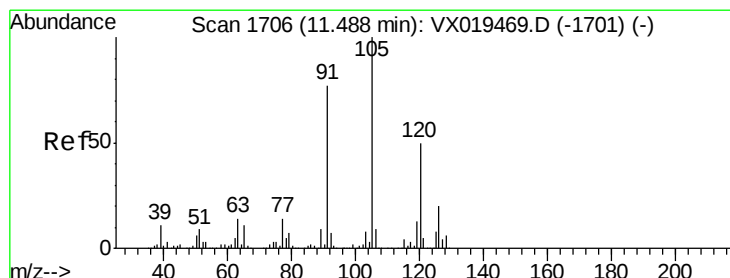
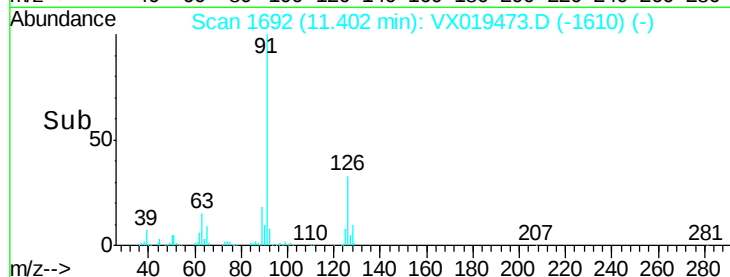
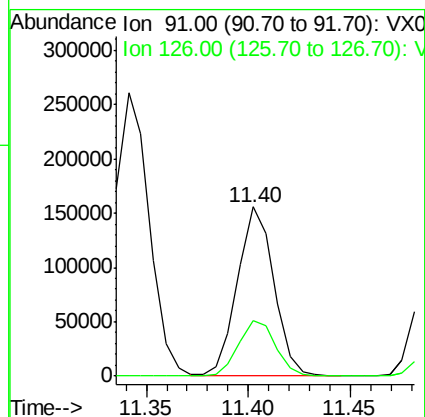
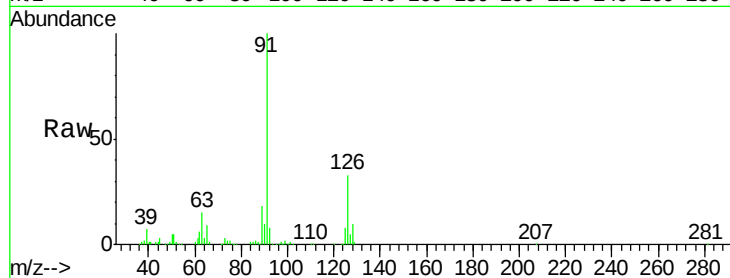
126 33.2 0.0 66.4

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#76

1,3,5-Trimethylbenzene

Concen: 18.435 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX019473.D

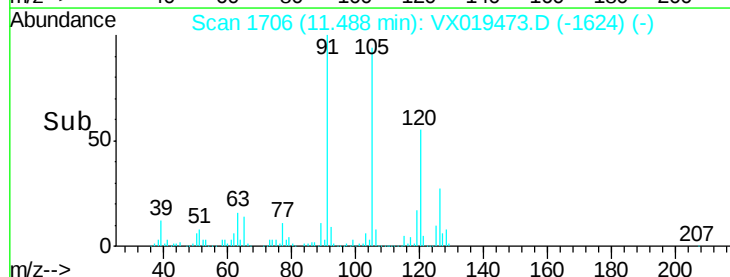
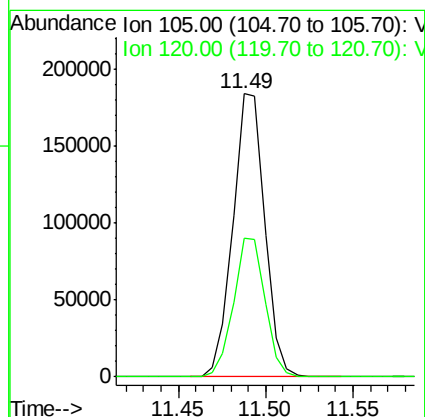
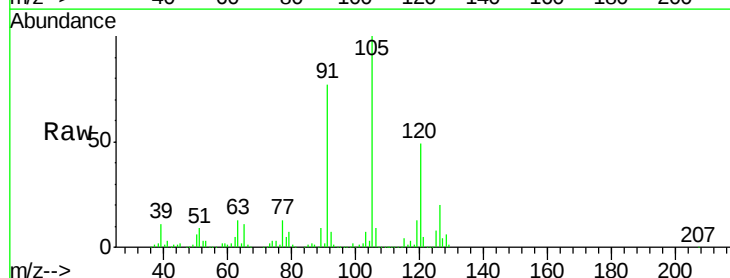
Acq: 19 Nov 2020 18:08

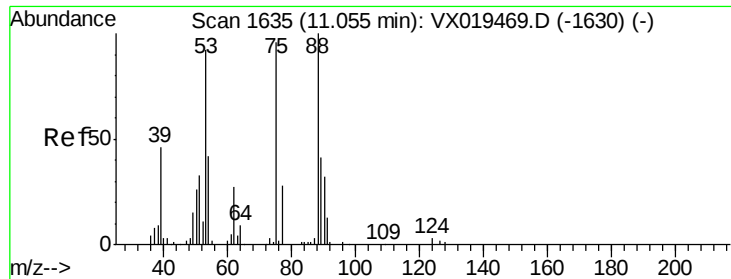
Tgt Ion: 105 Resp: 232861

Ion Ratio Lower Upper

105 100

120 48.4 0.0 99.4





#77

t-1,4-Dichloro-2-butene

Concen: 17.926 ug/l

RT: 11.06 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

ClientSampleId :

ICVVX112020

Tot Ion: 75 Resp: 28109

Ion Ratio Lower Upper

75 100

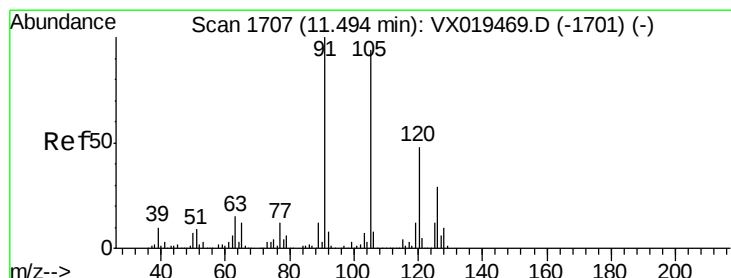
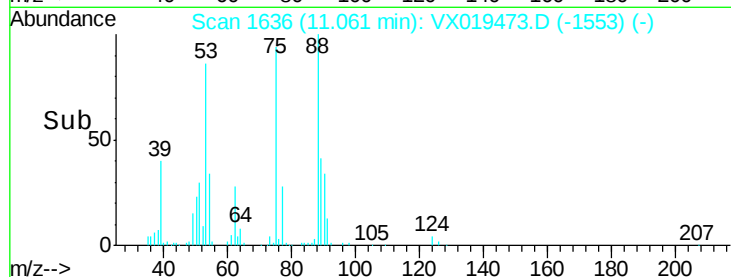
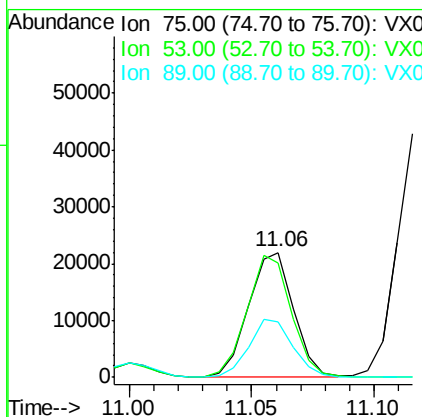
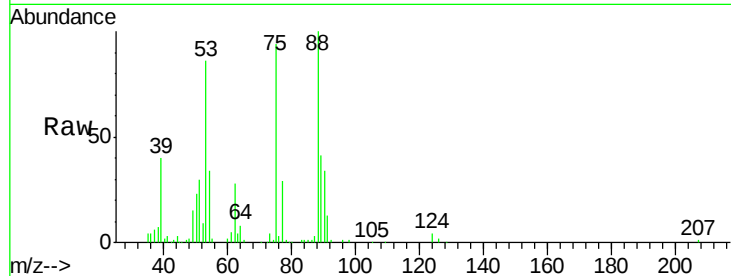
53 92.2 47.9 143.6

89 44.0 21.4 64.2

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#78

4-Chlorotoluene

Concen: 18.518 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX019473.D

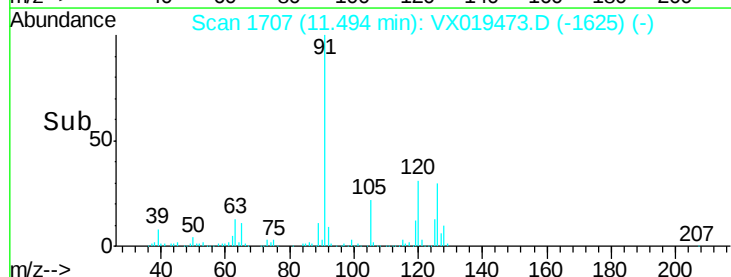
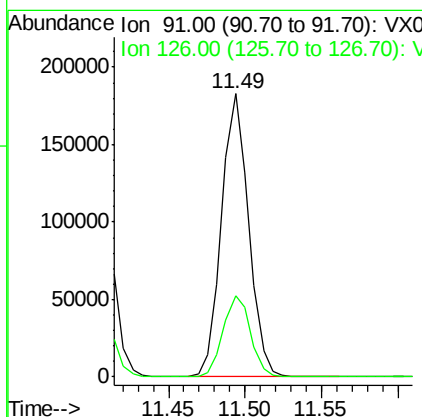
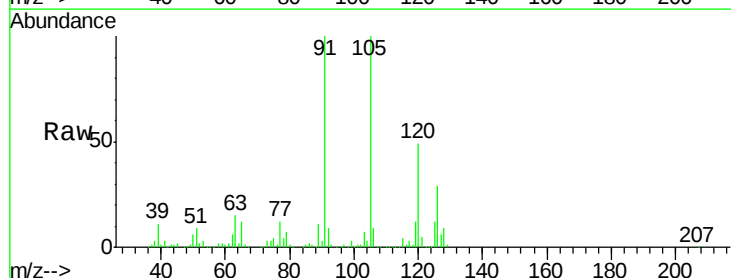
Acq: 19 Nov 2020 18:08

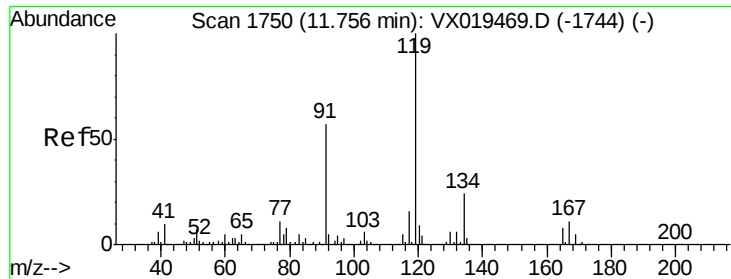
Tgt Ion: 91 Resp: 224952

Ion Ratio Lower Upper

91 100

126 29.0 0.0 58.6





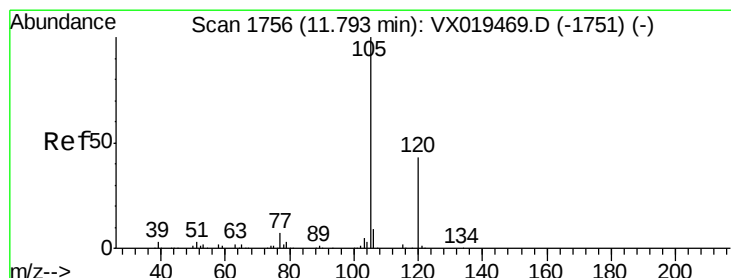
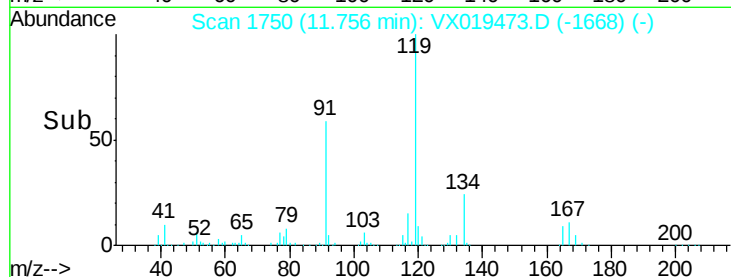
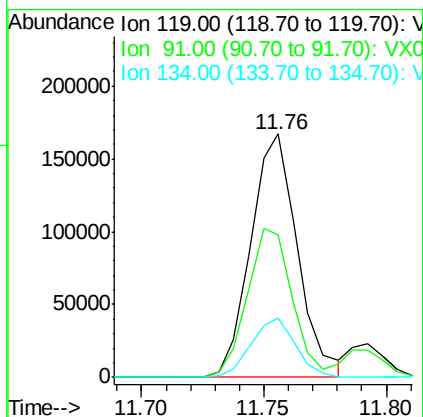
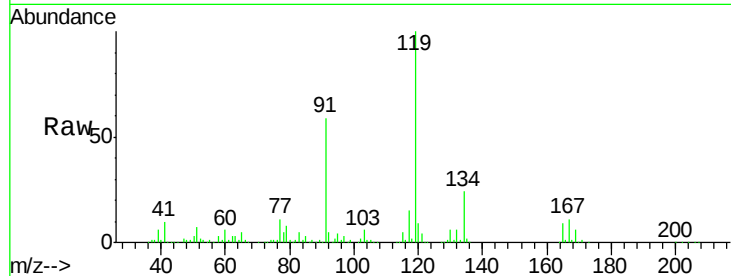
#79  
tert-butylbenzene  
Concen: 18.382 ug/l  
RT: 11.76 min Scan# 1750  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVX112020

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 222711 |       |       |
| 91      | 58.7  |        | 0.0   | 117.0 |
| 134     | 23.3  |        | 0.0   | 47.2  |

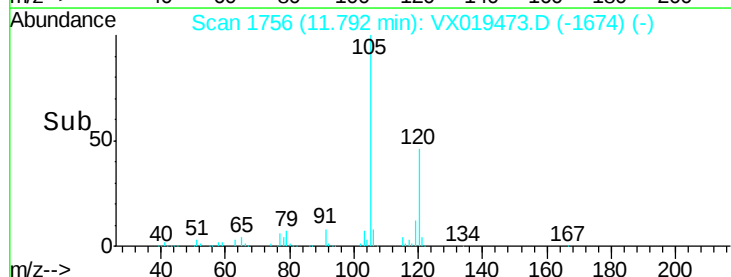
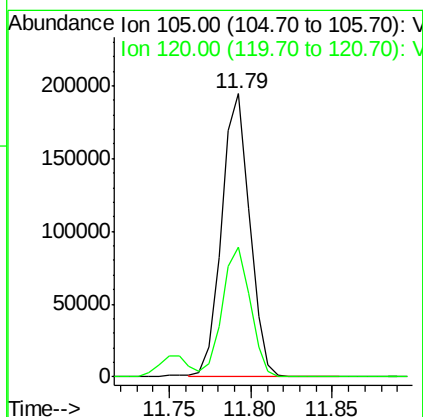
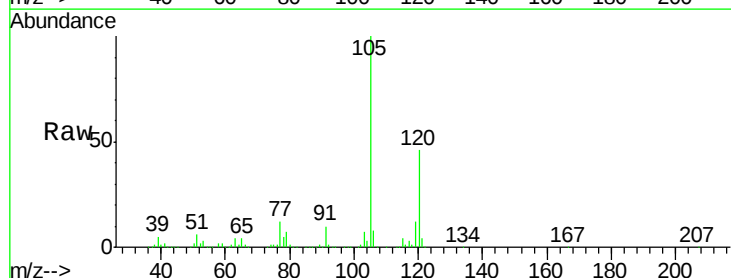
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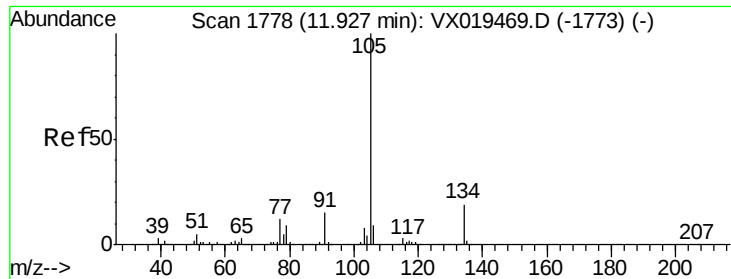
MMDadoda  
11/20/2020 12:25:11 PM



#80  
1,2,4-Trimethylbenzene  
Concen: 18.366 ug/l  
RT: 11.79 min Scan# 1756  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 233131 |       |       |
| 120     | 45.8  |        | 0.0   | 91.2  |





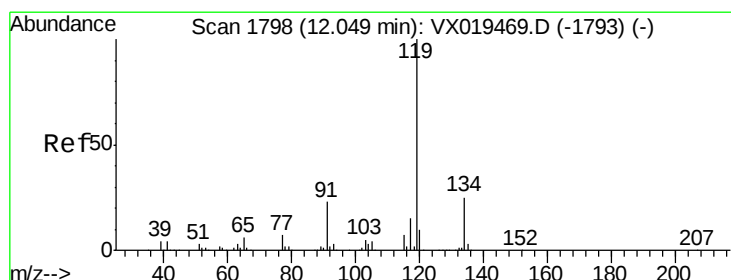
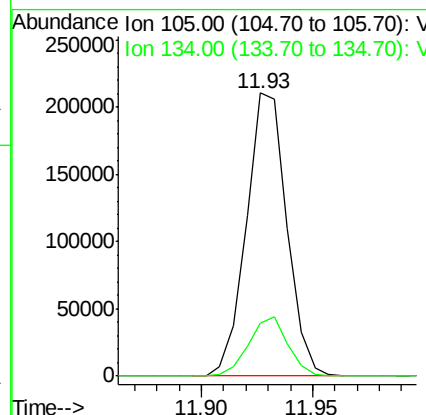
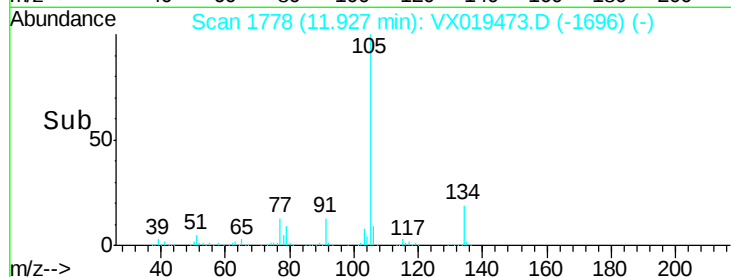
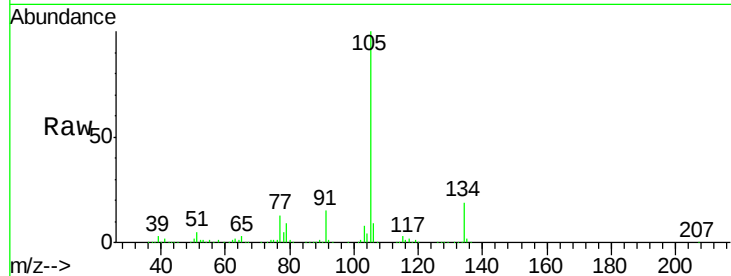
#81  
 sec-Butylbenzene  
 Concen: 18.362 ug/l  
 RT: 11.93 min Scan# 1778  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112020

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 267053 |       |       |
| 134     | 20.1  | 0.0    | 39.2  |       |

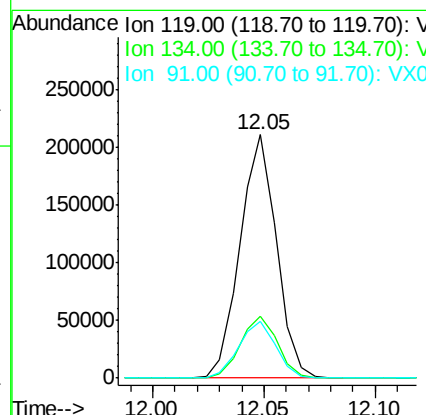
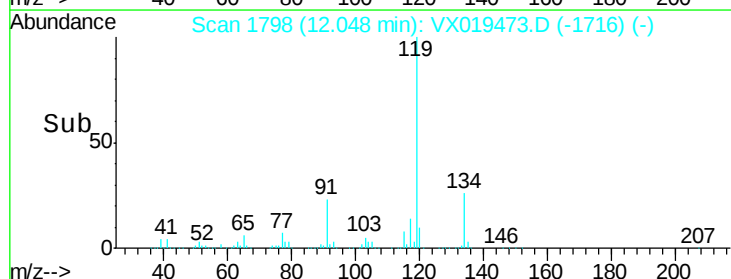
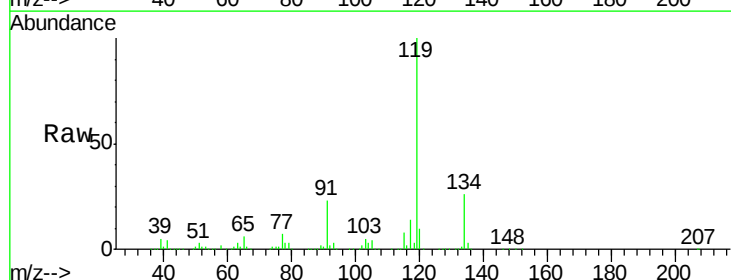
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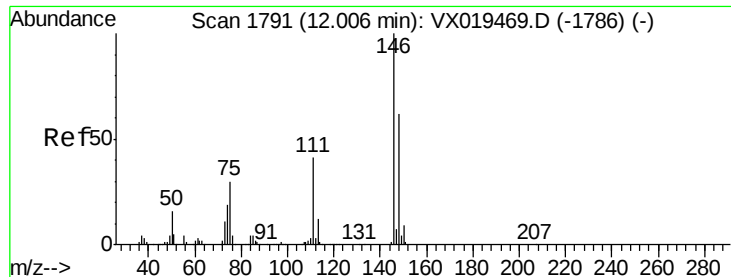
MMDadoda  
 11/20/2020 12:25:11 PM



#82  
 p-Isopropyltoluene  
 Concen: 18.241 ug/l  
 RT: 12.05 min Scan# 1798  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 241245 |       |       |
| 134     | 25.7  | 0.0    | 51.8  |       |
| 91      | 23.7  | 0.0    | 47.6  |       |





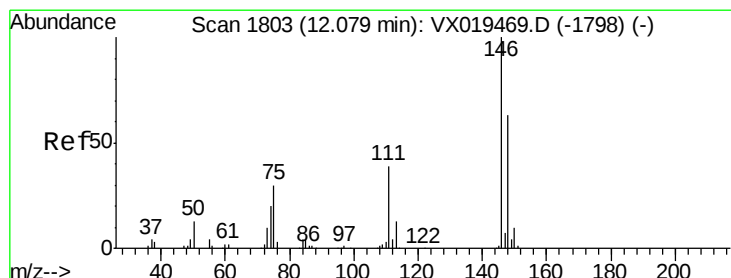
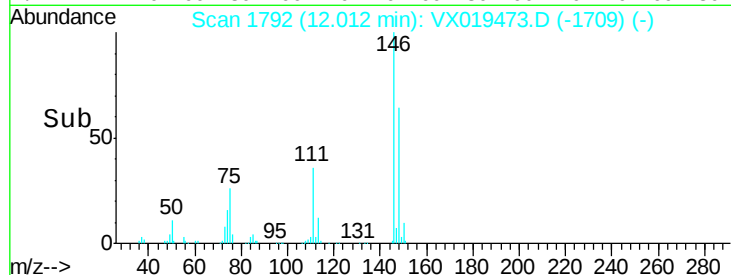
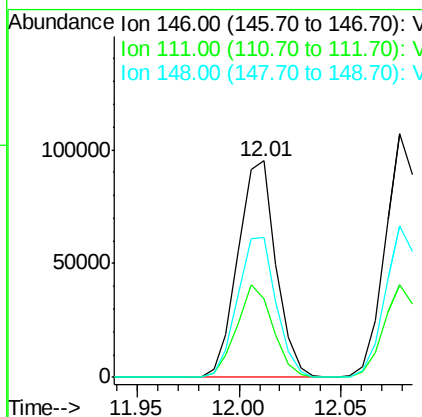
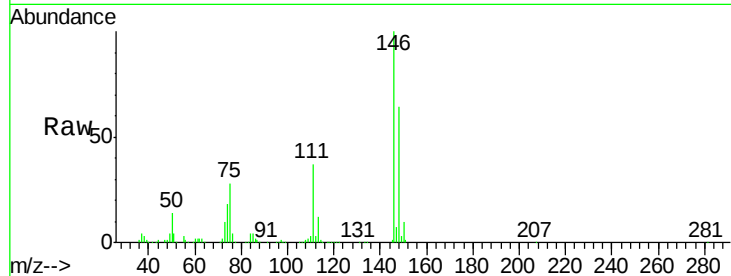
#83  
 1,3-Dichlorobenzene  
 Concen: 17.984 ug/l  
 RT: 12.01 min Scan# 1792  
 Delta R.T. 0.01 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 ICVVX112020

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.8  | 20.0  | 60.0  |
| 148     | 65.9  | 31.4  | 94.0  |

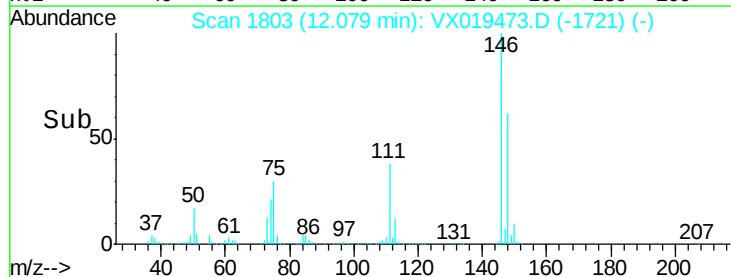
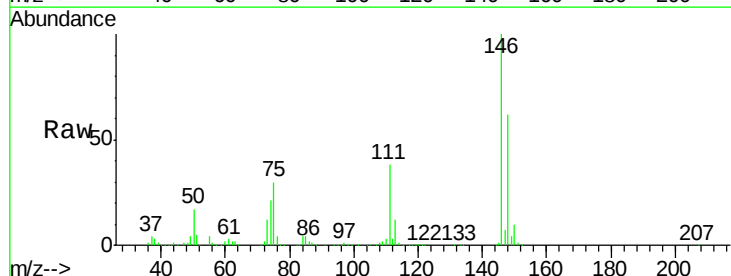
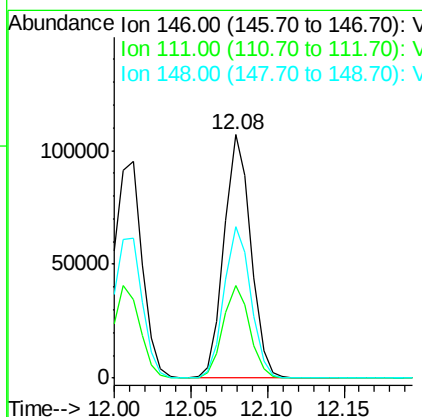
Manual Integrations  
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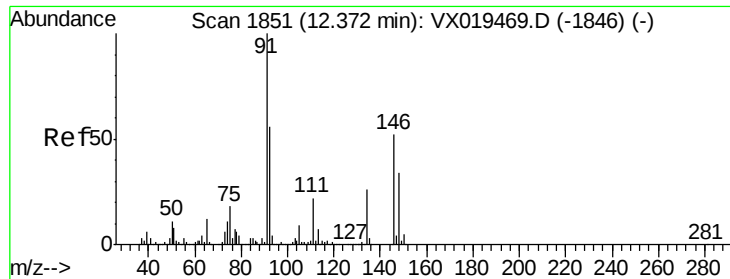
MMDadoda  
 11/20/2020 12:25:11 PM



#84  
 1,4-Dichlorobenzene  
 Concen: 18.755 ug/l  
 RT: 12.08 min Scan# 1803  
 Delta R.T. -0.00 min  
 Lab File: VX019473.D  
 Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 37.9  | 19.3  | 57.9  |
| 148     | 61.8  | 31.4  | 94.2  |





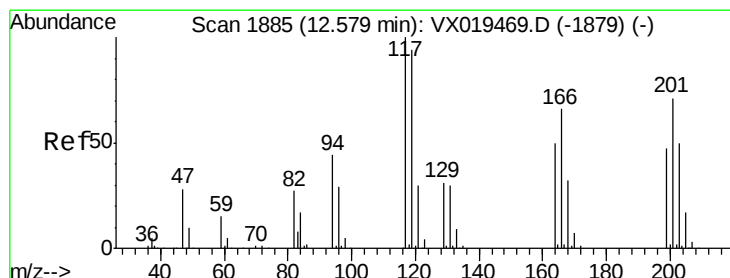
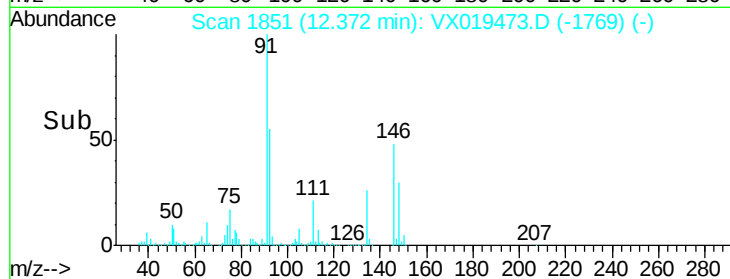
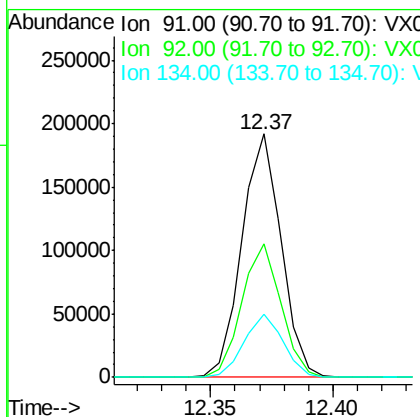
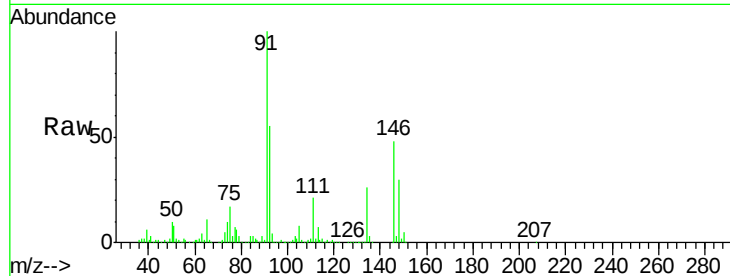
#85  
n-Butylbenzene  
Concen: 17.694 ug/l  
RT: 12.37 min Scan# 1851  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 213543 |       |       |
| 92      | 54.8  | 0.0    | 111.2 |       |
| 134     | 26.0  | 0.0    | 51.2  |       |

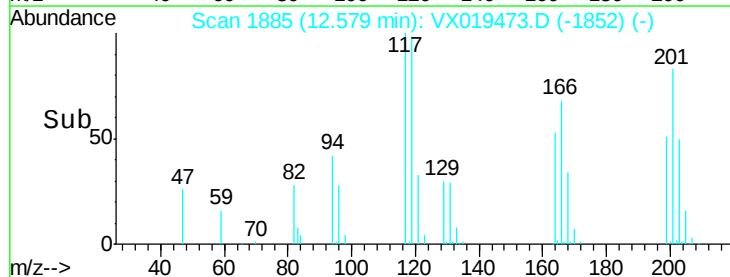
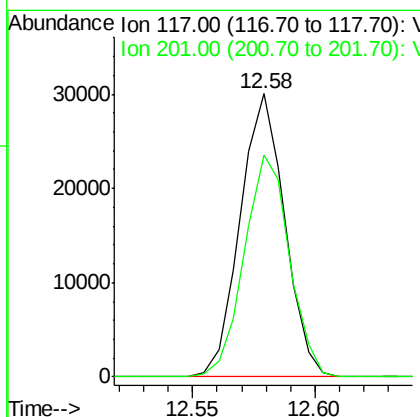
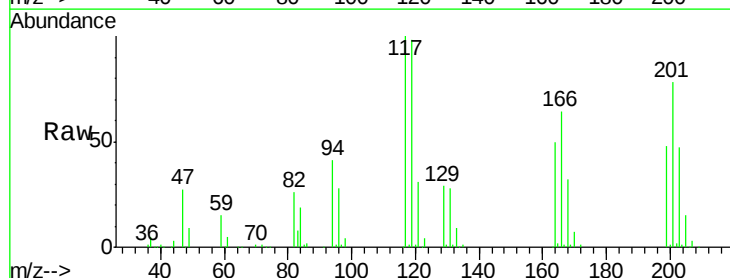
Manual Integrations  
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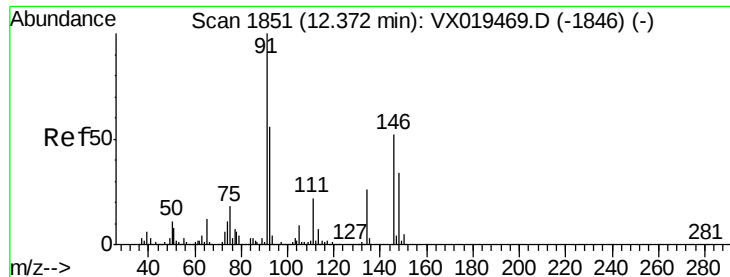
MMDadoda  
11/20/2020 12:25:11 PM



#86  
Hexachloroethane  
Concen: 17.088 ug/l  
RT: 12.58 min Scan# 1885  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 117     | 100   | 38038 |       |       |
| 201     | 79.7  | 38.4  | 115.1 |       |





#87

1,2-Dichlorobenzene

Concen: 18.210 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. 0.01 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

Instrument :

MSVOA\_X

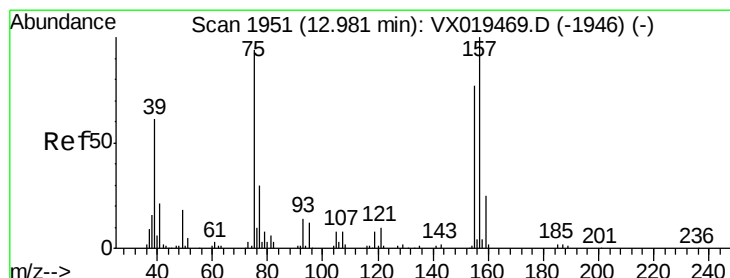
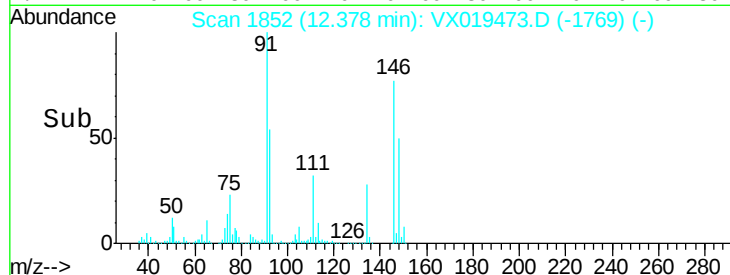
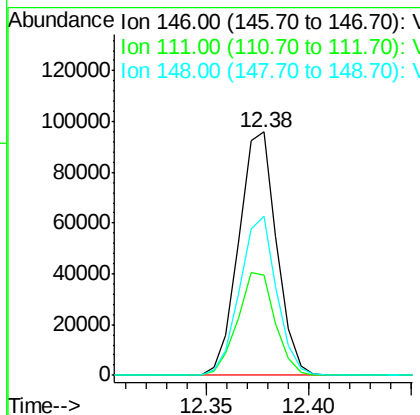
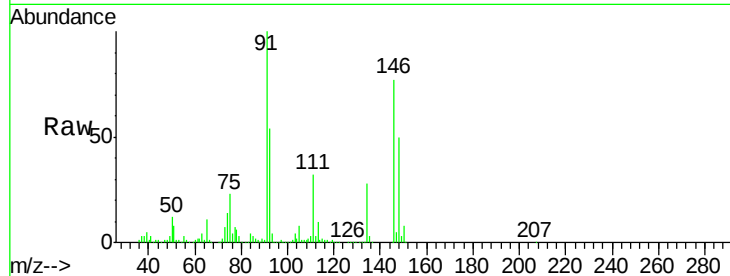
ClientSampleId :

ICVVX112020

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 123490 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 41.9  | 20.5  | 61.6   |
| 148       | 63.4  | 31.5  | 94.5   |

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#88

1,2-Dibromo-3-Chloropropane

Concen: 17.979 ug/l

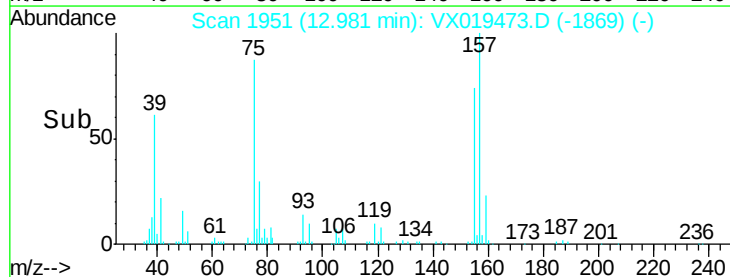
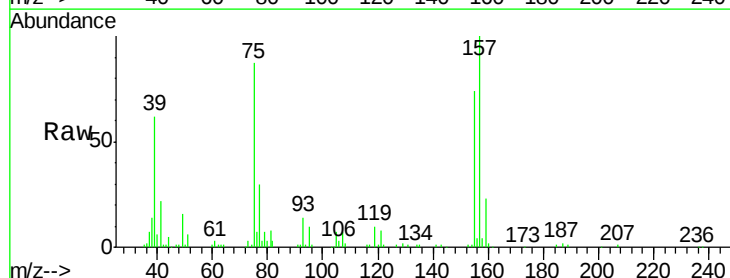
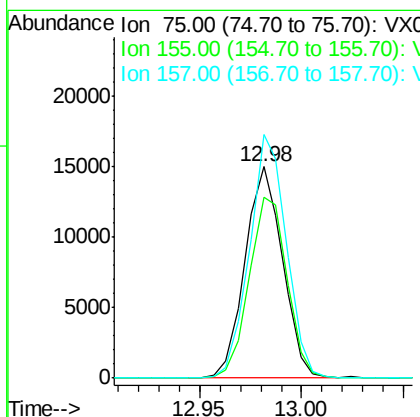
RT: 12.98 min Scan# 1951

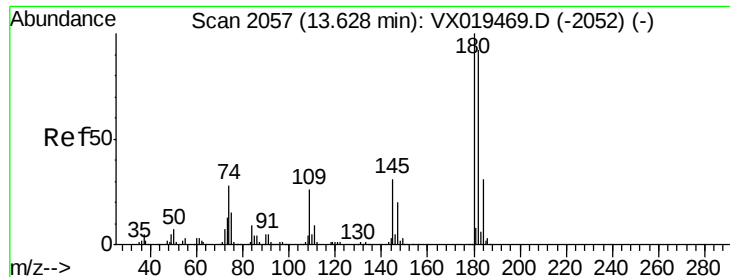
Delta R.T. -0.00 min

Lab File: VX019473.D

Acq: 19 Nov 2020 18:08

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 19232 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 155       | 86.6  | 68.6  | 103.0 |
| 157       | 113.1 | 90.0  | 135.0 |





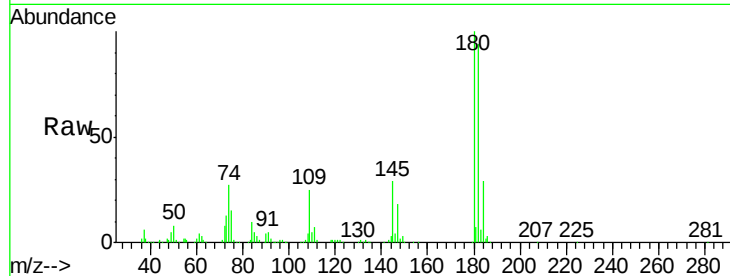
#89  
1,2,4-Trichlorobenzene  
Concen: 18.752 ug/l  
RT: 13.63 min Scan# 2057  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

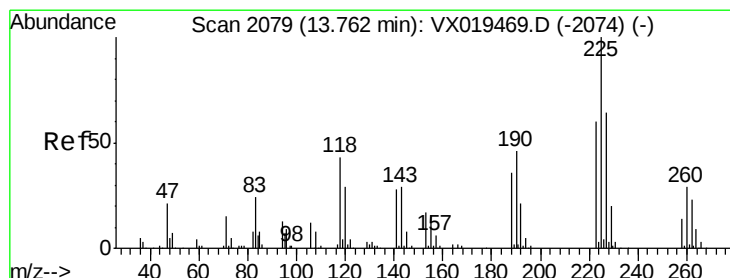
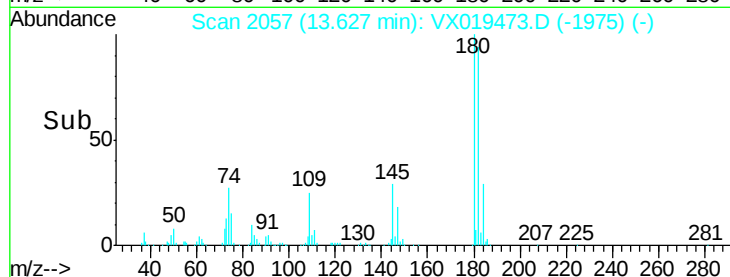
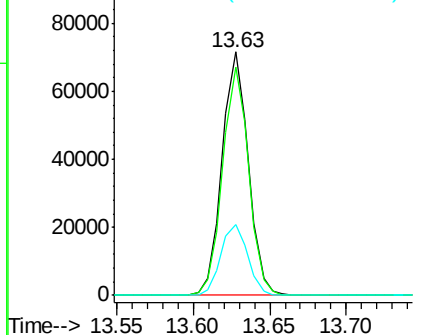
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.5  | 76.1  | 114.1 |
| 145     | 30.2  | 24.7  | 37.1  |

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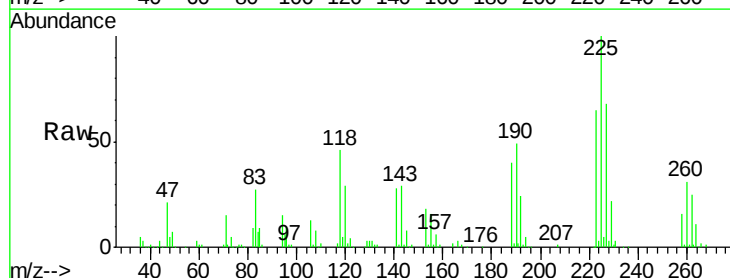


Abundance Ion 180.00 (179.70 to 180.70): V  
Ion 182.00 (181.70 to 182.70): V  
Ion 145.00 (144.70 to 145.70): V

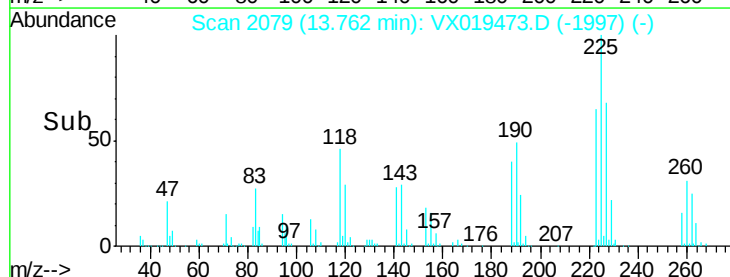
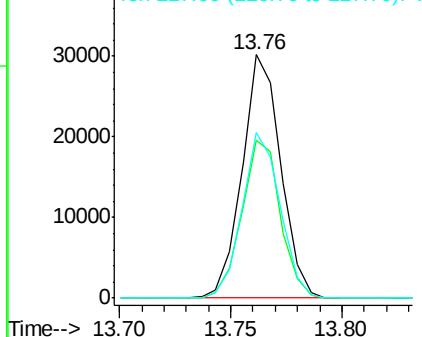


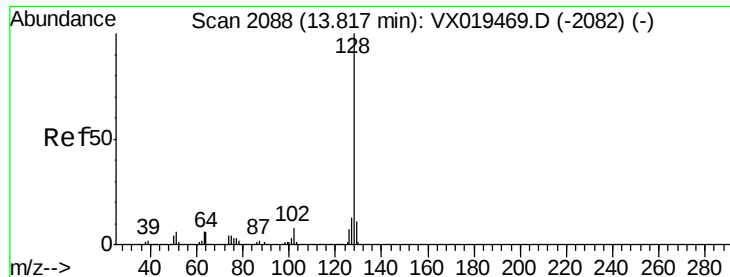
#90  
Hexachlorobutadiene  
Concen: 17.961 ug/l  
RT: 13.76 min Scan# 2079  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 64.6  | 0.0   | 119.2 |
| 227     | 67.3  | 0.0   | 126.4 |



Abundance Ion 225.00 (224.70 to 225.70): V  
Ion 223.00 (222.70 to 223.70): V  
Ion 227.00 (226.70 to 227.70): V





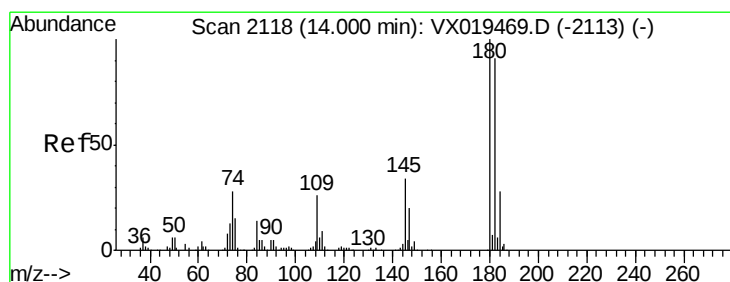
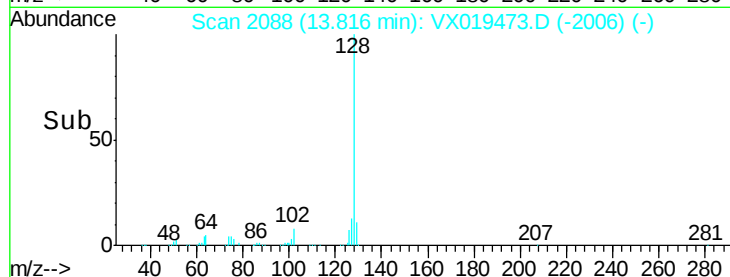
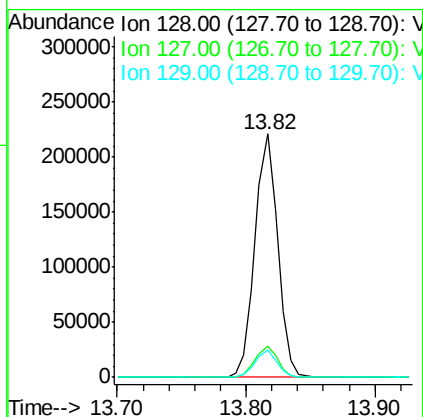
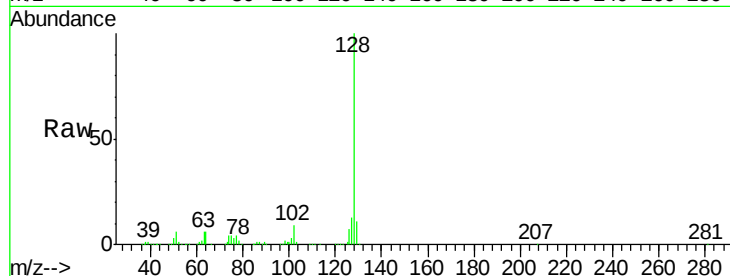
#91  
Naphthalene  
Concen: 18.634 ug/l  
RT: 13.82 min Scan# 2088  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

Instrument :  
MSVOA\_X  
ClientSampleId :  
ICVVX112020

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 268280 |       |       |
| 127     | 12.8  |        | 10.1  | 15.1  |
| 129     | 11.0  |        | 8.6   | 12.8  |

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#92  
1,2,3-Trichlorobenzene  
Concen: 18.399 ug/l  
RT: 14.00 min Scan# 2118  
Delta R.T. -0.00 min  
Lab File: VX019473.D  
Acq: 19 Nov 2020 18:08

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 180     | 100   | 83253 |       |       |
| 182     | 94.3  |       | 0.0   | 192.2 |
| 145     | 31.9  |       | 0.0   | 63.6  |

