

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX030821\  
 Data File : VX021086.D  
 Acq On : 09 Mar 2021 01:30  
 Operator : JC/MD  
 Sample : PB135028ZHE#04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB135028ZHE#04

Quant Time: Mar 09 04:24:25 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022421W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 24 13:50:55 2021  
 Response via : Initial Calibration

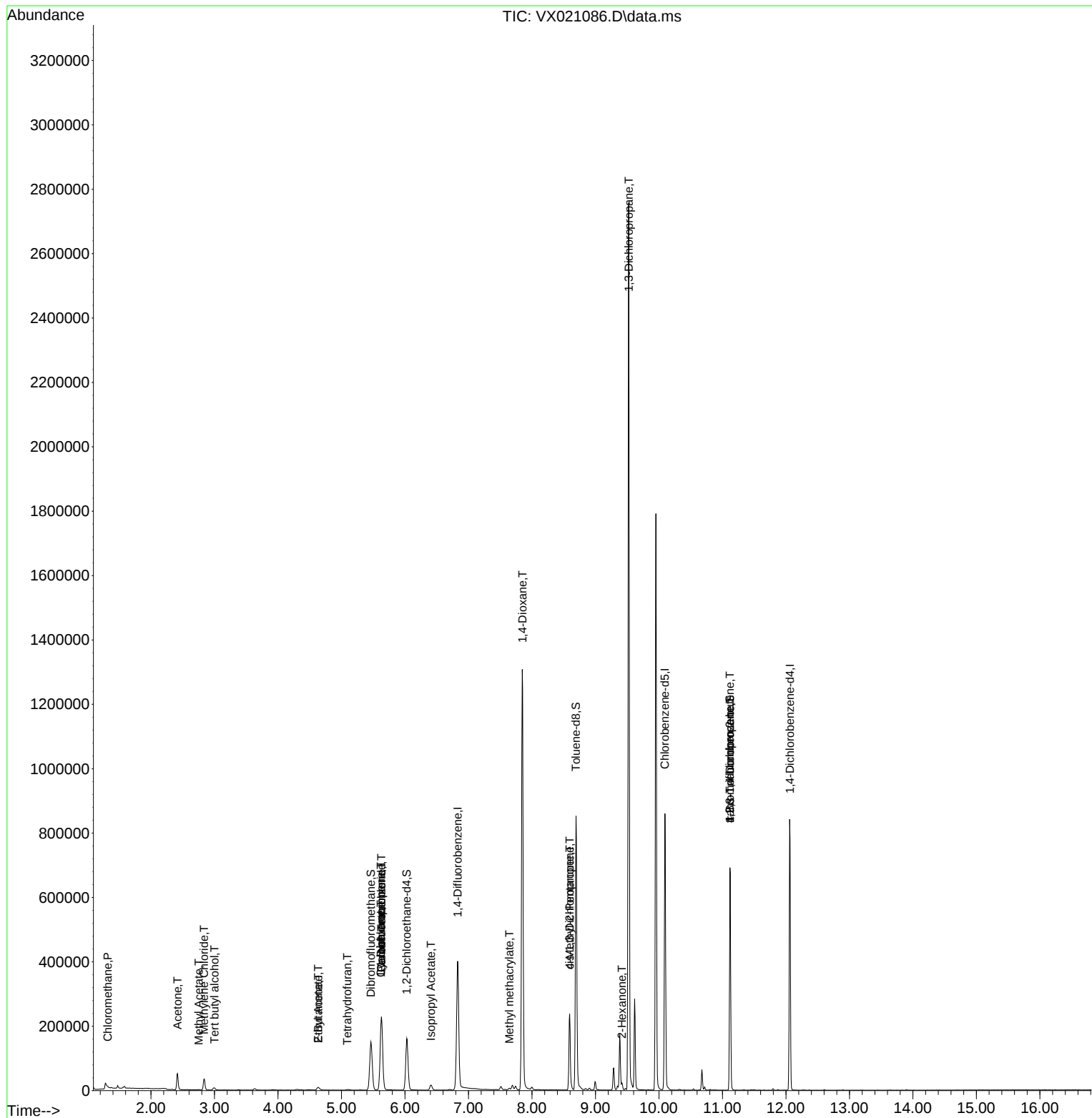
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.629  | 168   | 224461   | 50.00    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.829  | 114   | 414337   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.094 | 117   | 406231   | 50.00    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.065 | 152   | 179403   | 50.00    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.029  | 65    | 149950   | 49.46    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery | =      | 98.92%   |
| 35) Dibromofluoromethane      | 5.464  | 113   | 131573   | 52.26    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery | =      | 104.52%  |
| 50) Toluene-d8                | 8.694  | 98    | 523536   | 53.34    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery | =      | 106.68%  |
| 62) 4-Bromofluorobenzene      | 11.118 | 95    | 193223   | 53.24    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery | =      | 106.48%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.316  | 50    | 986      | 0.37     | ug/l   | 98       |
| 5) Bromomethane               | 1.646  | 94    | 397      | Below    | Cal    | 86       |
| 11) Tert butyl alcohol        | 2.999  | 59    | 4898     | 7.25     | ug/l # | 81       |
| 16) Acetone                   | 2.416  | 43    | 52447    | 41.98    | ug/l   | 100      |
| 18) Methyl Acetate            | 2.752  | 43    | 1435     | 0.49     | ug/l   | 97       |
| 20) Methylene Chloride        | 2.834  | 84    | 17111    | 5.71     | ug/l   | 98       |
| 25) 2-Butanone                | 4.634  | 43    | 11493    | 6.06     | ug/l   | 99       |
| 29) Tetrahydrofuran           | 5.093  | 42    | 1747     | 1.43     | ug/l # | 81       |
| 31) Cyclohexane               | 5.623  | 56    | 4363     | 0.99     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.623  | 75    | 16827    | 4.27     | ug/l # | 48       |
| 37) Ethyl Acetate             | 4.634  | 43    | 11493    | 3.07     | ug/l # | 64       |
| 38) Carbon Tetrachloride      | 5.629  | 117   | 21275    | 5.58     | ug/l # | 17       |
| 43) Isopropyl Acetate         | 6.411  | 43    | 21220    | 3.33     | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.646  | 41    | 5815     | 1.82     | ug/l # | 10       |
| 49) 1,4-Dioxane               | 7.852  | 88    | 256      | 3.43     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.594  | 43    | 80073    | 21.58    | ug/l # | 47       |
| 54) cis-1,3-Dichloropropene   | 8.594  | 75    | 42243    | 8.29     | ug/l # | 58       |
| 57) 1,3-Dichloropropane       | 9.523  | 76    | 24868    | 4.99     | ug/l # | 43       |
| 59) 2-Hexanone                | 9.417  | 43    | 10463    | 3.76     | ug/l # | 19       |
| 76) 1,2,3-Trichloropropane    | 11.118 | 75    | 92551    | 23.98    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.118 | 75    | 92551    | 53.09    | ug/l # | 12       |

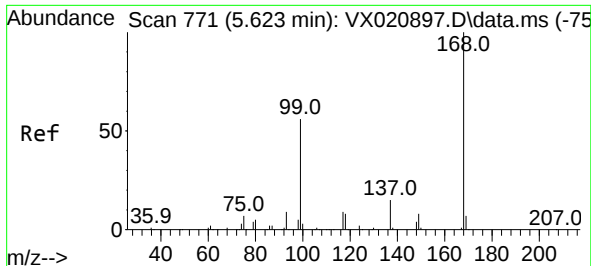
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX030821\  
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Sample : PB135028ZHE#04  
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Instrument :  
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ClientSampleId :  
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Quant Time: Mar 09 04:24:25 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022421W.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 24 13:50:55 2021  
Response via : Initial Calibration

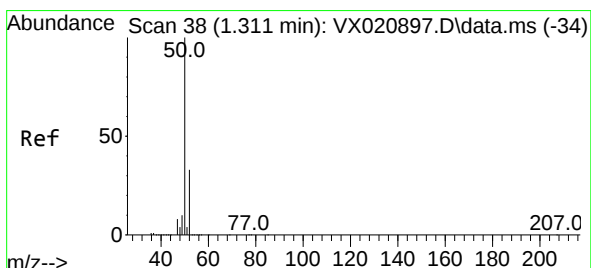
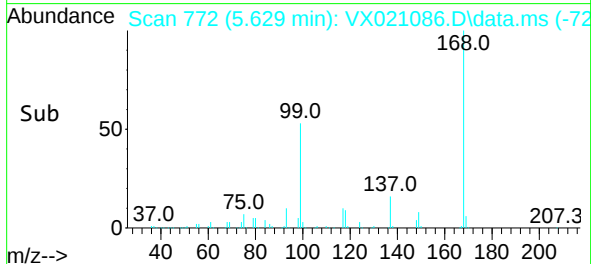
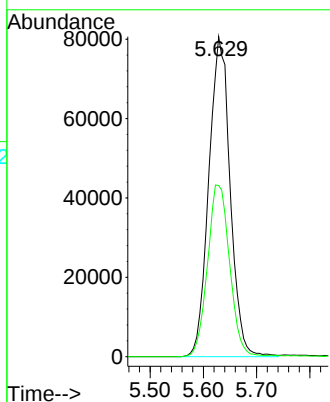
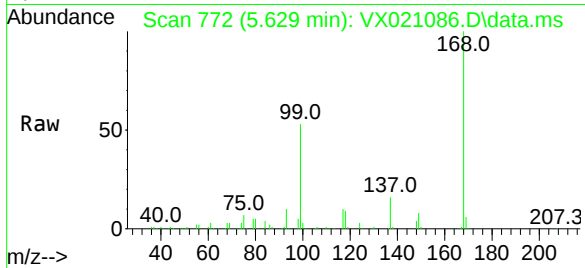




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 772  
Delta R.T. 0.006 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

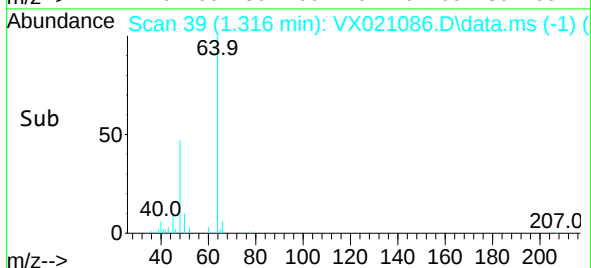
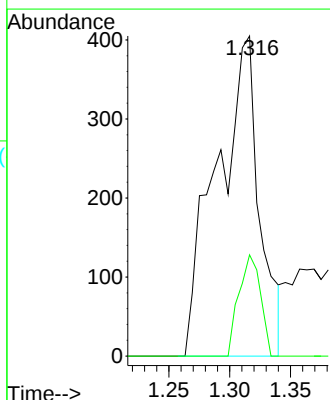
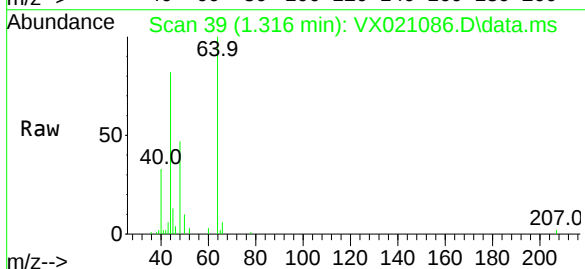
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB135028ZHE#04

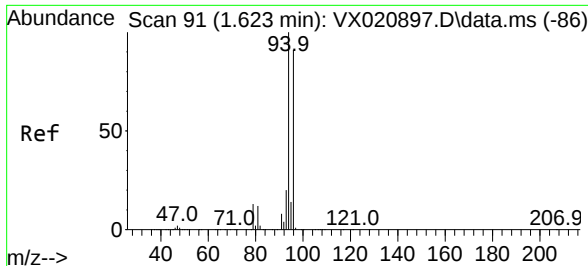
Tgt Ion:168 Resp: 224461  
Ion Ratio Lower Upper  
168 100  
99 53.5 45.8 68.6



#3  
Chloromethane  
Concen: 0.37 ug/l  
RT: 1.316 min Scan# 39  
Delta R.T. 0.005 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

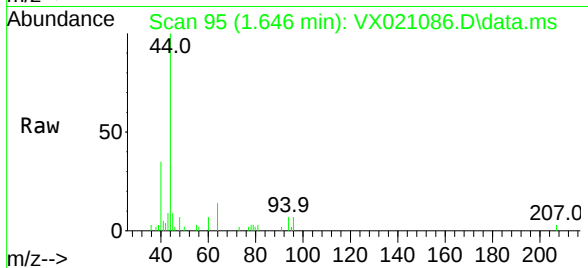
Tgt Ion: 50 Resp: 986  
Ion Ratio Lower Upper  
50 100  
52 31.6 26.4 39.6



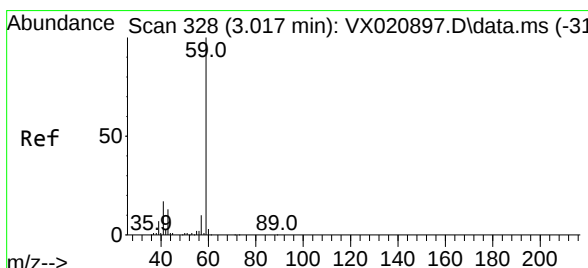
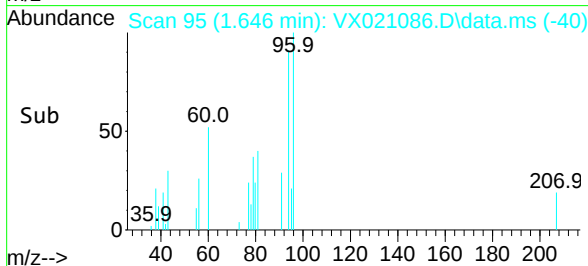
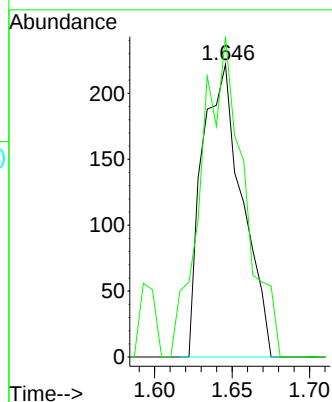


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Bromomethane  
Concen: Below Cal  
RT: 1.646 min Scan# 95  
Delta R.T. 0.023 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB135028ZHE#04

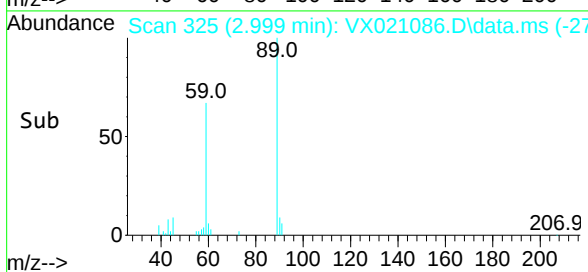
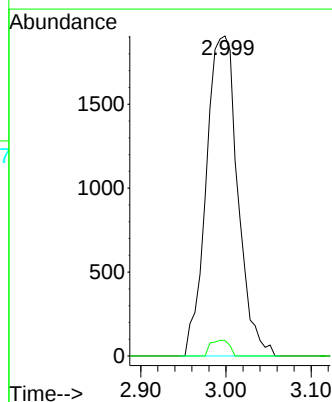
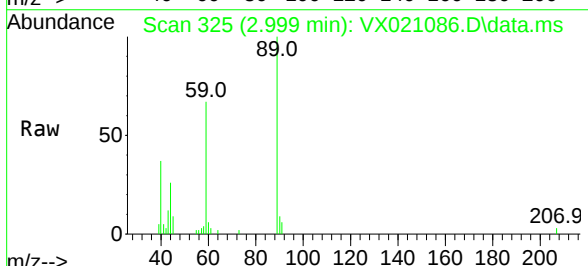


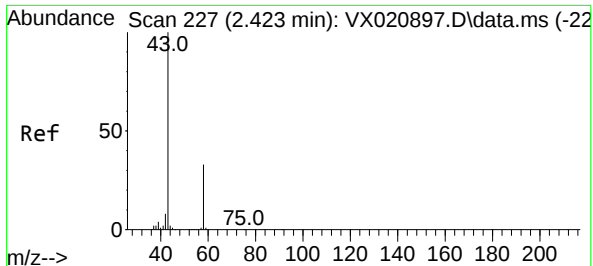
Tgt Ion: 94 Resp: 397  
Ion Ratio Lower Upper  
94 100  
96 109.5 76.4 114.6



#11  
Tert butyl alcohol  
Concen: 7.25 ug/l  
RT: 2.999 min Scan# 325  
Delta R.T. -0.018 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

Tgt Ion: 59 Resp: 4898  
Ion Ratio Lower Upper  
59 100  
57 2.9 7.8 11.8#

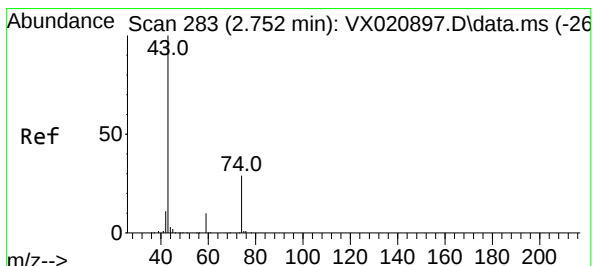
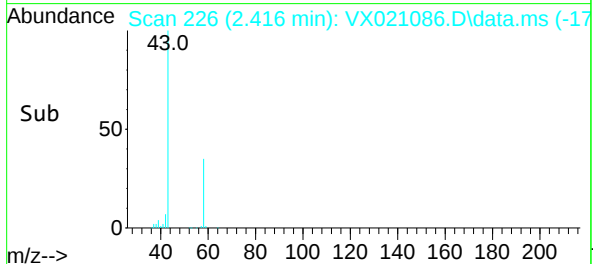
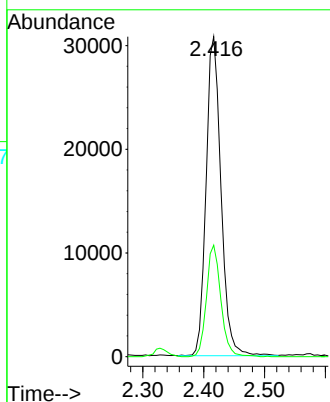
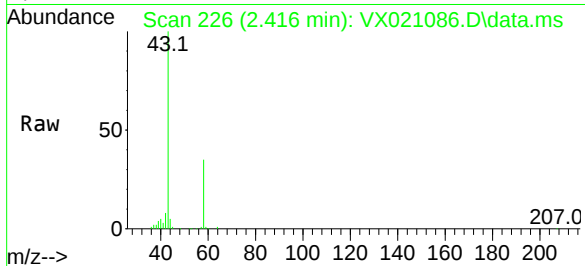




#16  
Acetone  
Concen: 41.98 ug/l  
RT: 2.416 min Scan# 226  
Delta R.T. -0.006 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

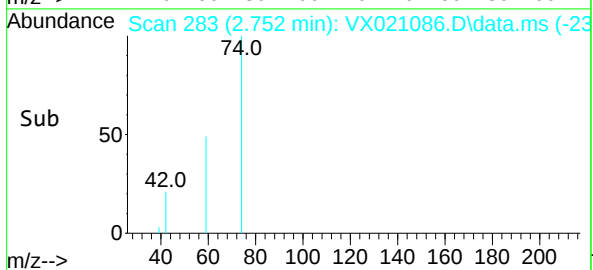
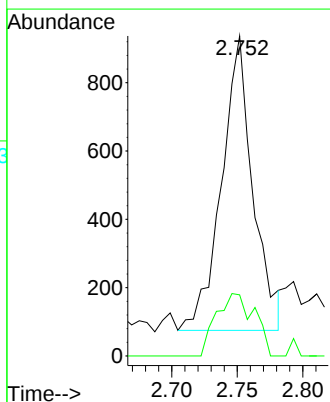
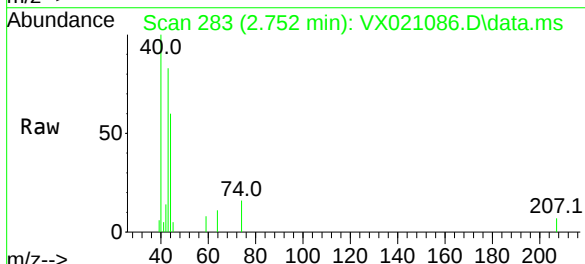
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB135028ZHE#04

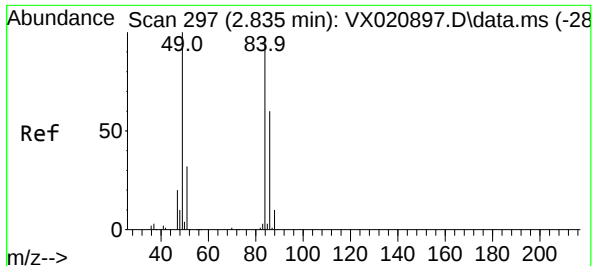
Tgt Ion: 43 Resp: 52447  
Ion Ratio Lower Upper  
43 100  
58 35.0 27.8 41.8



#18  
Methyl Acetate  
Concen: 0.49 ug/l  
RT: 2.752 min Scan# 283  
Delta R.T. -0.000 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

Tgt Ion: 43 Resp: 1435  
Ion Ratio Lower Upper  
43 100  
74 25.8 21.9 32.9

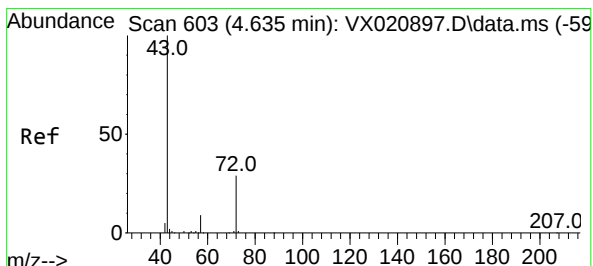
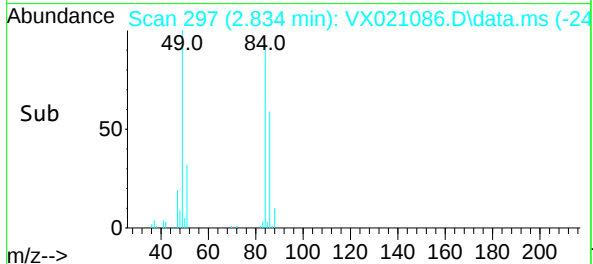
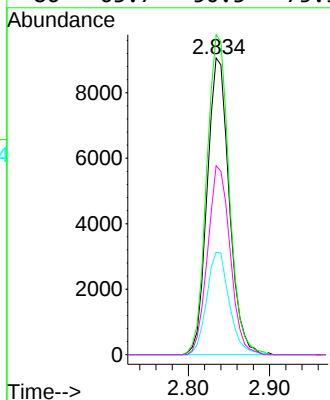
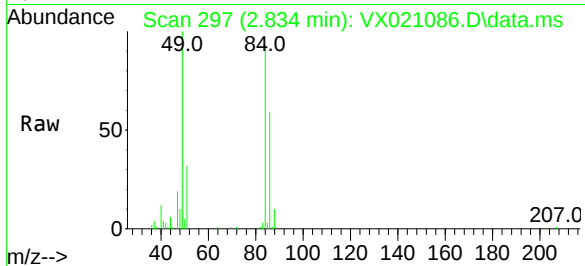




#20  
Methylene Chloride  
Concen: 5.71 ug/l  
RT: 2.834 min Scan# 297  
Delta R.T. -0.000 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

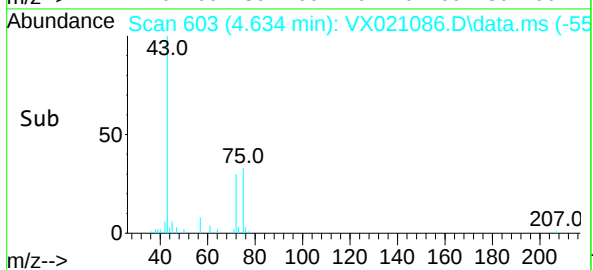
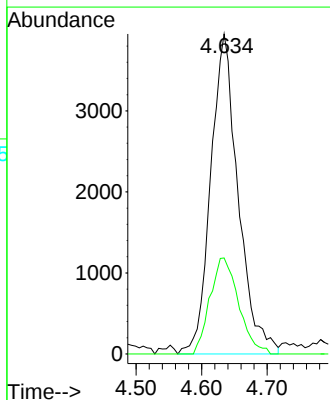
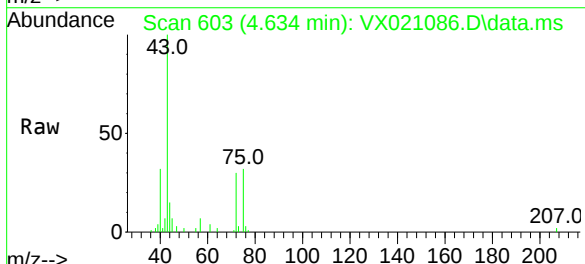
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PB135028ZHE#04

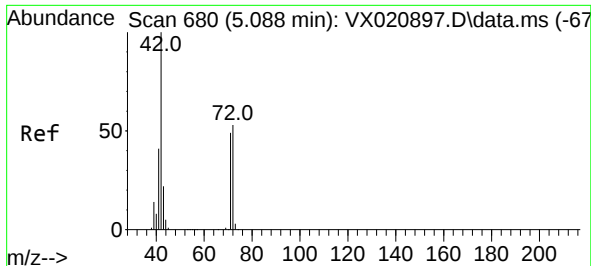
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|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 17111 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 107.8 | 88.6  | 132.8 |
| 51       | 34.6  | 27.0  | 40.6  |
| 86       | 63.7  | 50.3  | 75.5  |



#25  
2-Butanone  
Concen: 6.06 ug/l  
RT: 4.634 min Scan# 603  
Delta R.T. -0.000 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 11493 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 30.0  | 23.7  | 35.5  |





#29

Tetrahydrofuran

Concen: 1.43 ug/l

RT: 5.093 min Scan# 681

Delta R.T. 0.005 min

Lab File: VX021086.D

Acq: 09 Mar 2021 01:30

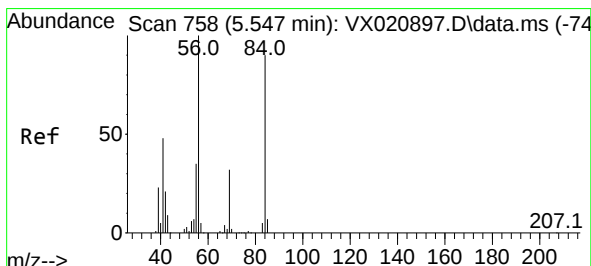
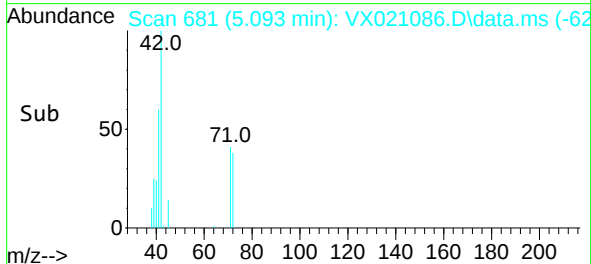
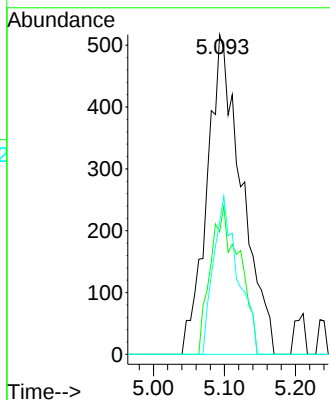
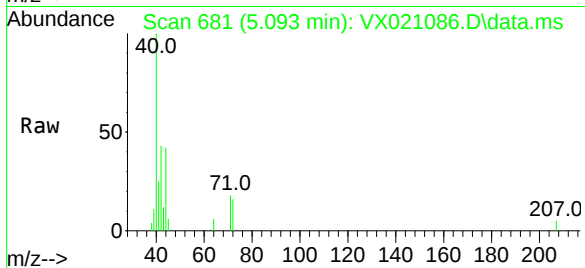
Instrument :

MSVOA\_X

ClientSampleId :

PB135028ZHE#04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 1747  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 38.9  | 41.7  | 62.5# |
| 71       | 34.7  | 38.4  | 57.6# |



#31

Cyclohexane

Concen: 0.99 ug/l

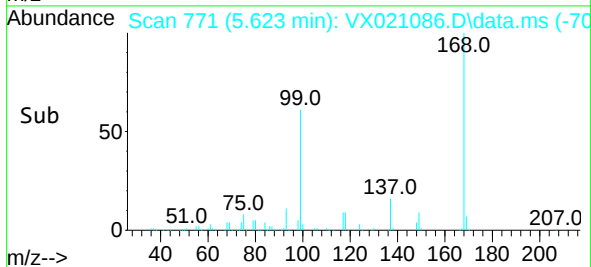
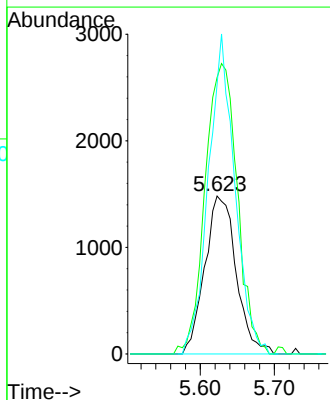
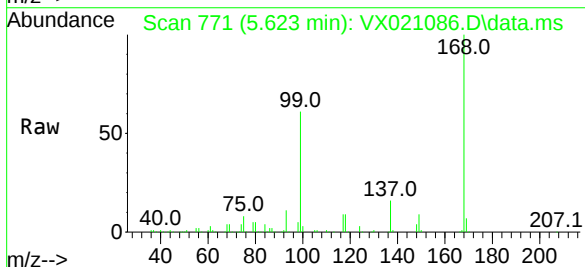
RT: 5.623 min Scan# 771

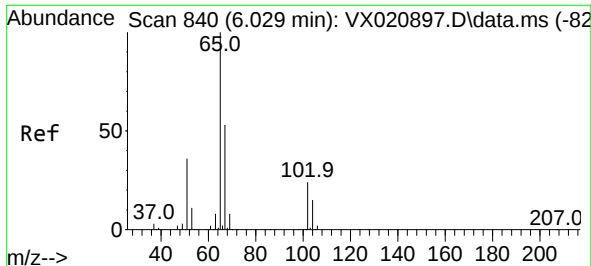
Delta R.T. 0.076 min

Lab File: VX021086.D

Acq: 09 Mar 2021 01:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 4363   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 170.6 | 25.3  | 37.9#  |
| 84       | 170.6 | 71.4  | 107.0# |





#33

1,2-Dichloroethane-d4

Concen: 49.46 ug/l

RT: 6.029 min Scan# 840

Delta R.T. -0.000 min

Lab File: VX021086.D

Acq: 09 Mar 2021 01:30

Tgt Ion: 65 Resp: 149950

Ion Ratio Lower Upper

65 100

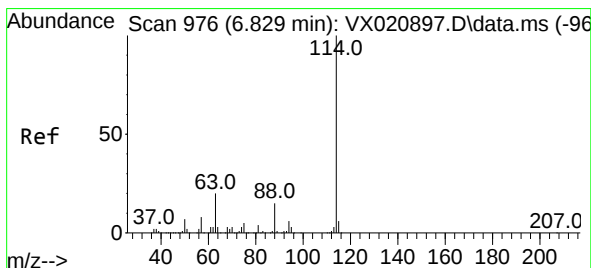
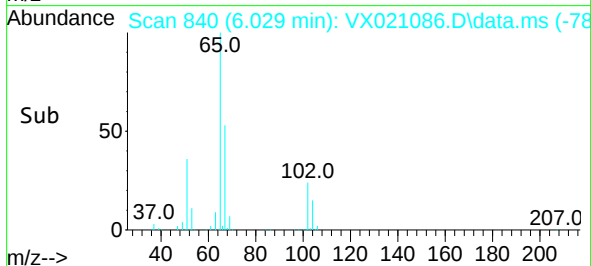
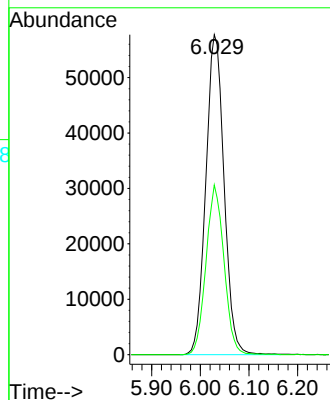
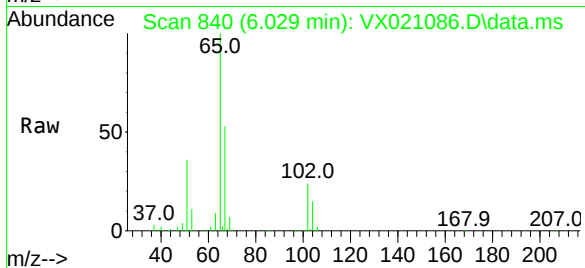
67 52.4 0.0 105.4

Instrument :

MSVOA\_X

ClientSampleId :

PB135028ZHE#04



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.829 min Scan# 976

Delta R.T. -0.000 min

Lab File: VX021086.D

Acq: 09 Mar 2021 01:30

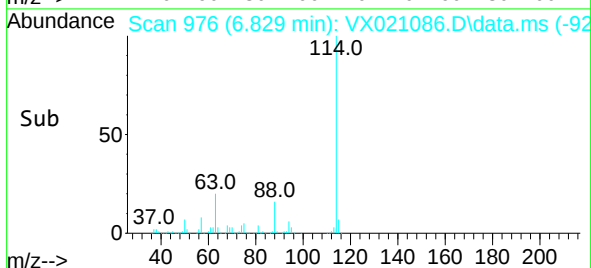
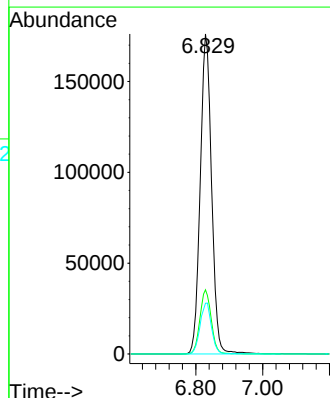
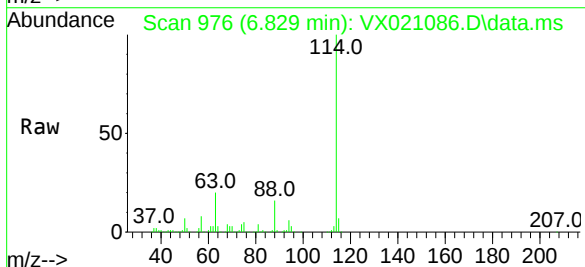
Tgt Ion: 114 Resp: 414337

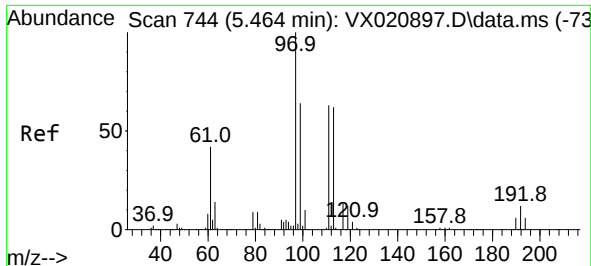
Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.8

88 15.9 0.0 32.8

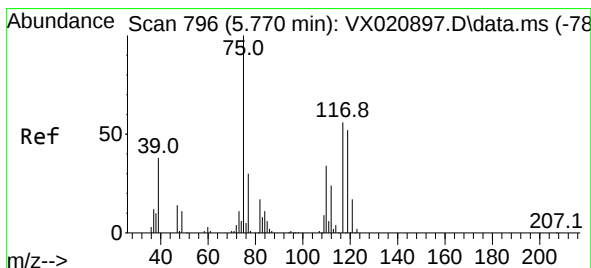
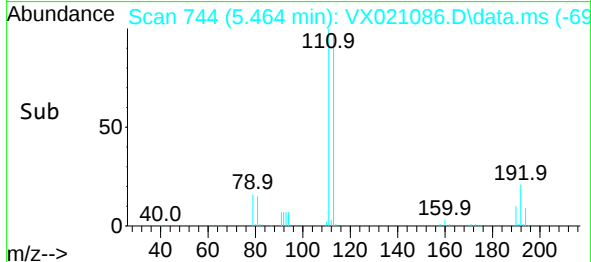
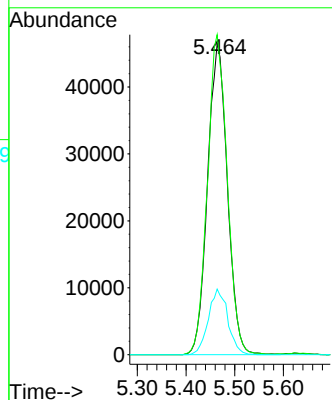
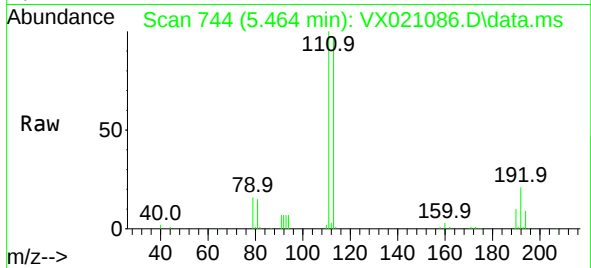




#35  
Dibromofluoromethane  
Concen: 52.26 ug/l  
RT: 5.464 min Scan# 744  
Delta R.T. -0.000 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

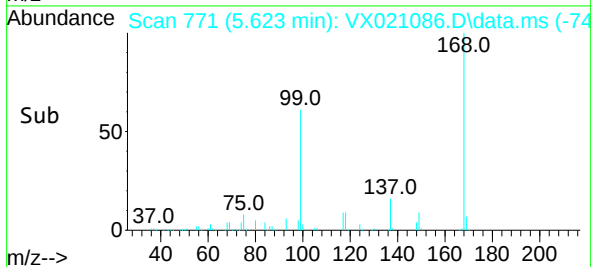
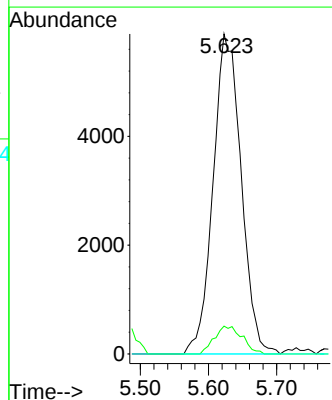
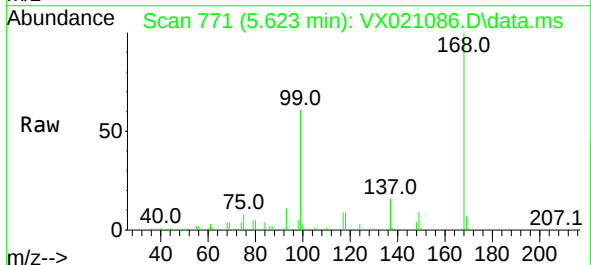
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB135028ZHE#04

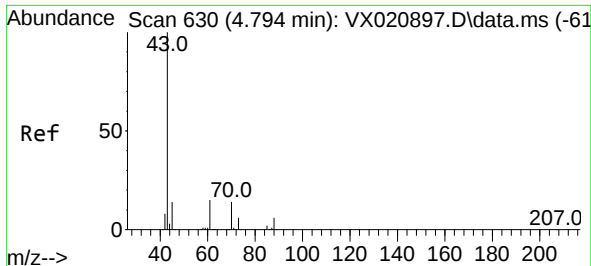
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 131573 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 102.5 | 81.9  | 122.9  |
| 192      | 20.6  | 16.7  | 25.1   |



#36  
1,1-Dichloropropene  
Concen: 4.27 ug/l  
RT: 5.623 min Scan# 771  
Delta R.T. -0.147 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 16827 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 8.6   | 18.1  | 54.4# |
| 77       | 0.0   | 25.3  | 37.9# |





#37

Ethyl Acetate

Concen: 3.07 ug/l

RT: 4.634 min Scan# 603

Delta R.T. -0.159 min

Lab File: VX021086.D

Acq: 09 Mar 2021 01:30

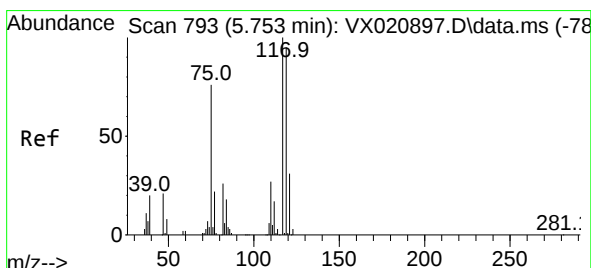
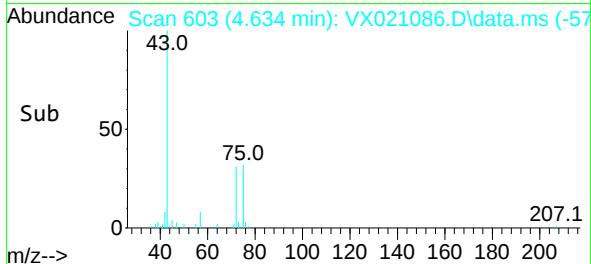
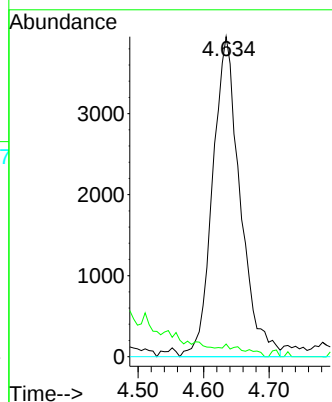
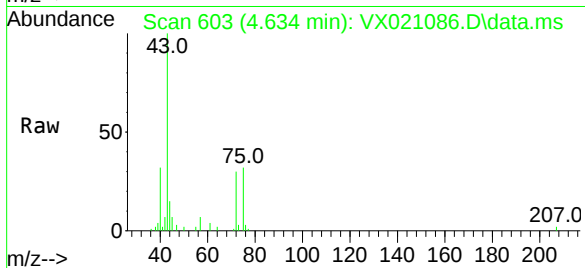
Instrument :

MSVOA\_X

ClientSampleId :

PB135028ZHE#04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 11493 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 0.0   | 12.8  | 19.2# |
| 70       | 0.0   | 10.5  | 15.7# |



#38

Carbon Tetrachloride

Concen: 5.58 ug/l

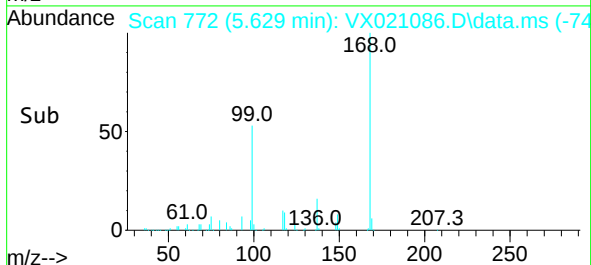
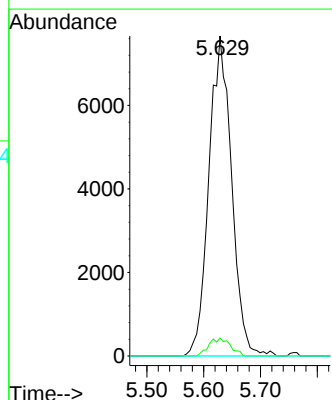
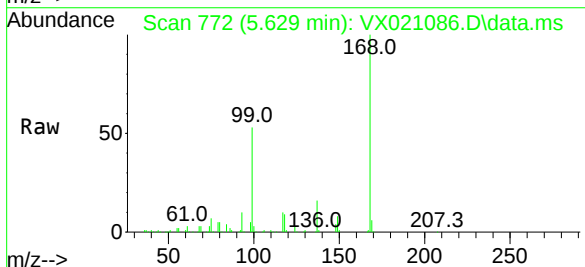
RT: 5.629 min Scan# 772

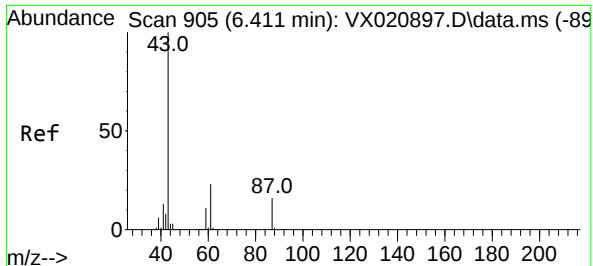
Delta R.T. -0.124 min

Lab File: VX021086.D

Acq: 09 Mar 2021 01:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 21275  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.6   | 76.2  | 114.2# |
| 121      | 0.0   | 24.8  | 37.2#  |





#43

Isopropyl Acetate

Concen: 3.33 ug/l

RT: 6.411 min Scan# 905

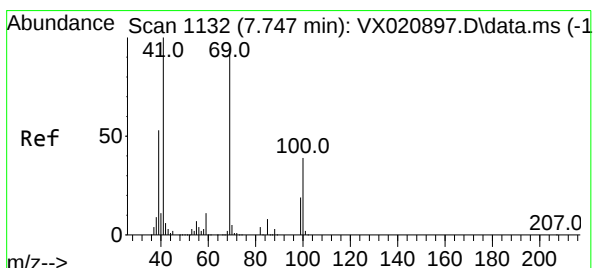
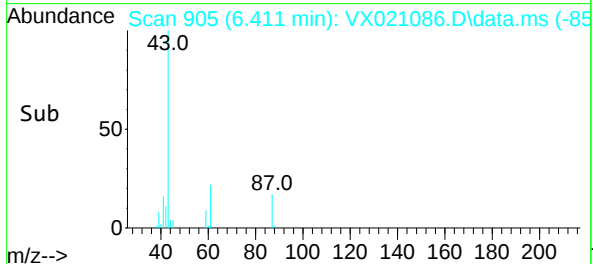
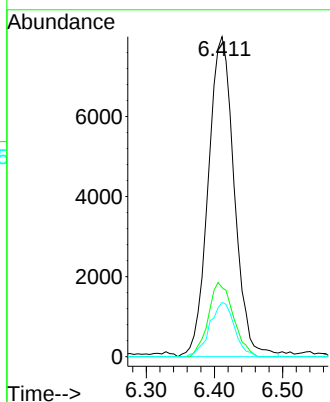
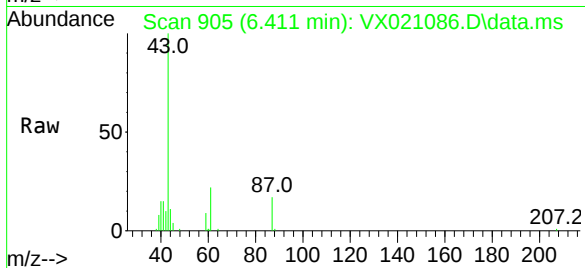
Delta R.T. -0.000 min

Lab File: VX021086.D

Acq: 09 Mar 2021 01:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 21220 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 22.3  | 18.2  | 27.4  |
| 87       | 16.2  | 12.5  | 18.7  |

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB135028ZHE#04



#48

Methyl methacrylate

Concen: 1.82 ug/l

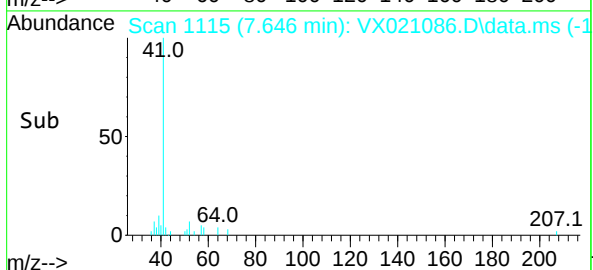
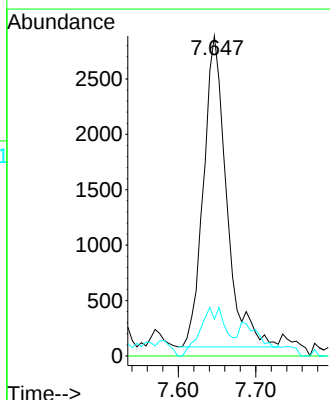
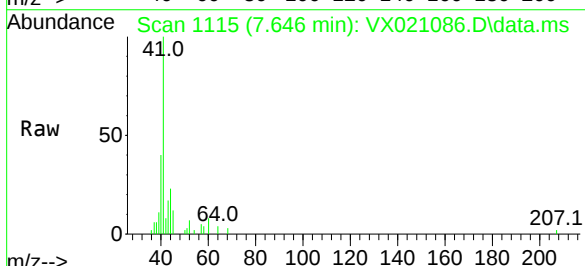
RT: 7.646 min Scan# 1115

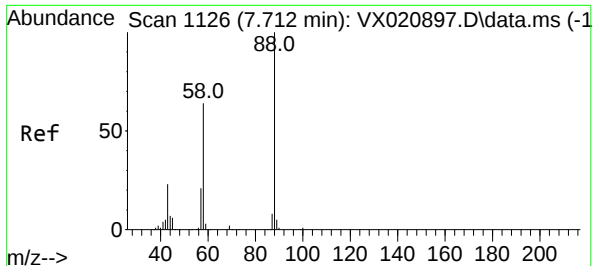
Delta R.T. -0.100 min

Lab File: VX021086.D

Acq: 09 Mar 2021 01:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 5815   |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.0   | 76.0  | 114.0# |
| 39       | 0.0   | 44.6  | 67.0#  |





#49

1,4-Dioxane

Concen: 3.43 ug/l

RT: 7.852 min Scan# 1150

Delta R.T. 0.141 min

Lab File: VX021086.D

Acq: 09 Mar 2021 01:30

Tgt Ion: 88 Resp: 256

Ion Ratio Lower Upper

88 100

43 451106.3 23.2 34.8#

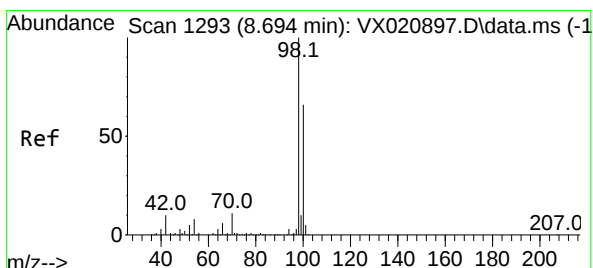
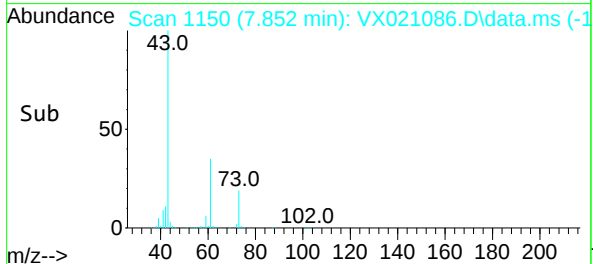
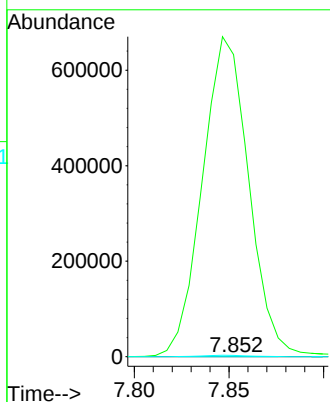
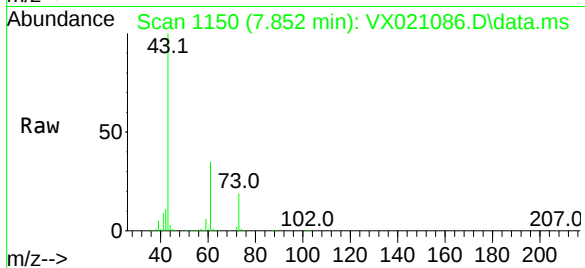
58 2021.5 55.0 82.4#

Instrument :

MSVOA\_X

ClientSampleId :

PB135028ZHE#04



#50

Toluene-d8

Concen: 53.34 ug/l

RT: 8.694 min Scan# 1293

Delta R.T. -0.000 min

Lab File: VX021086.D

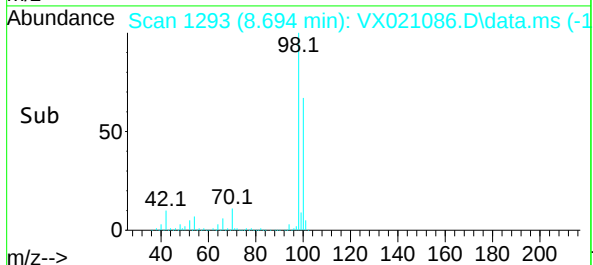
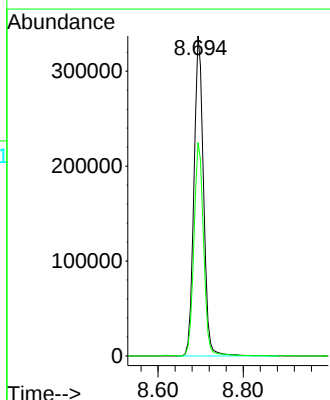
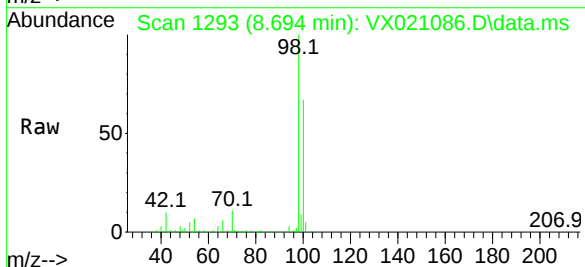
Acq: 09 Mar 2021 01:30

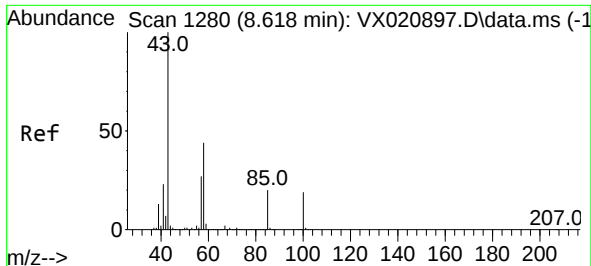
Tgt Ion: 98 Resp: 523536

Ion Ratio Lower Upper

98 100

100 67.5 51.9 77.9

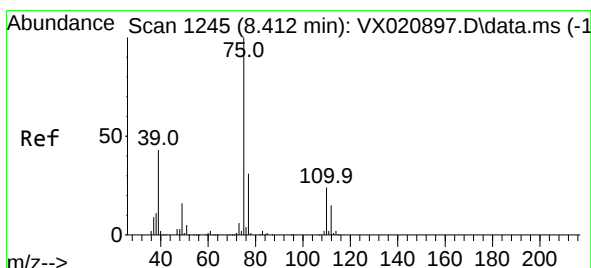
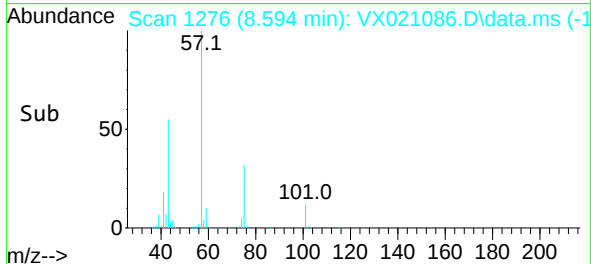
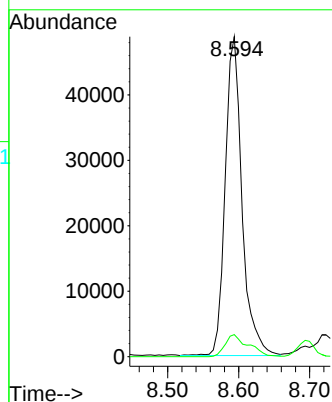
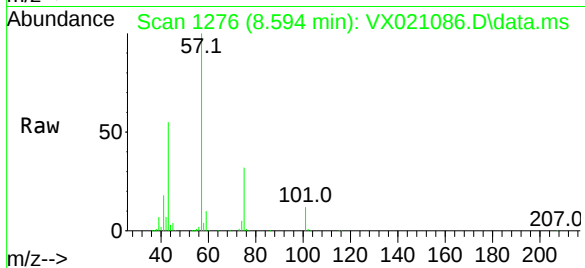




#51  
4-Methyl-2-Pentanone  
Concen: 21.58 ug/l  
RT: 8.594 min Scan# 1276  
Delta R.T. -0.024 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

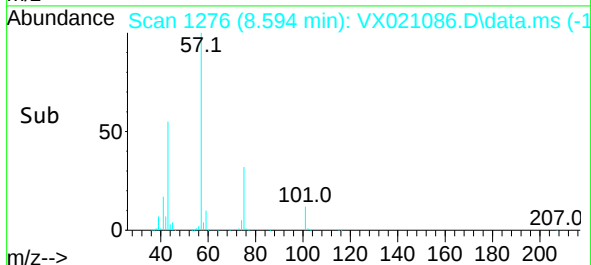
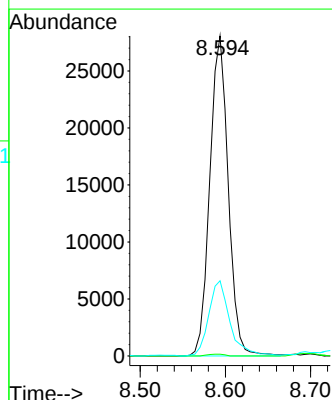
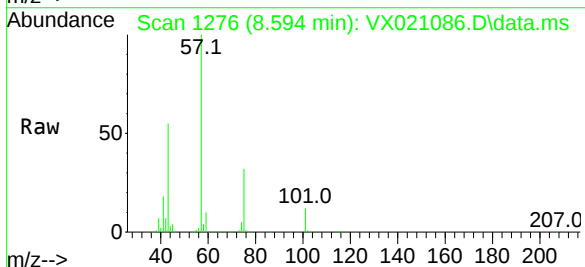
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB135028ZHE#04

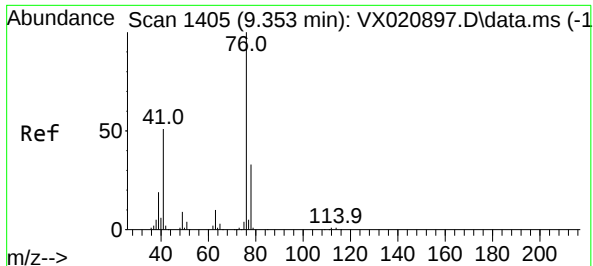
Tgt Ion: 43 Resp: 80073  
Ion Ratio Lower Upper  
43 100  
58 9.6 35.4 53.0#



#54  
cis-1,3-Dichloropropene  
Concen: 8.29 ug/l  
RT: 8.594 min Scan# 1276  
Delta R.T. 0.182 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

Tgt Ion: 75 Resp: 42243  
Ion Ratio Lower Upper  
75 100  
77 0.6 25.7 38.5#  
39 23.5 35.1 52.7#

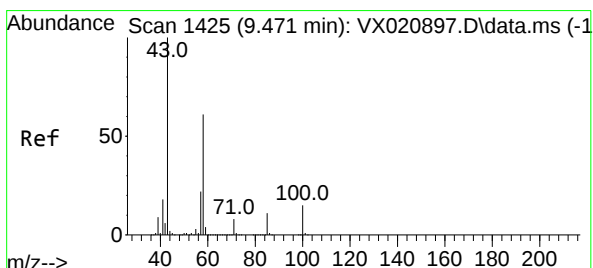
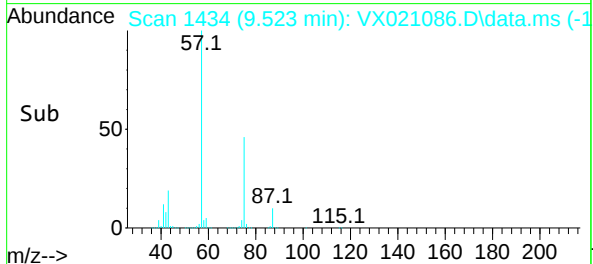
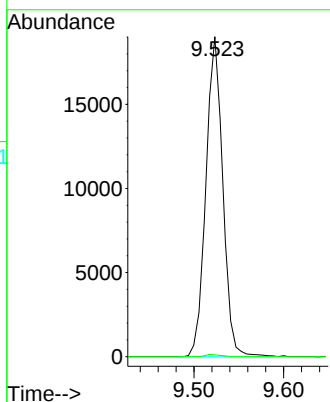
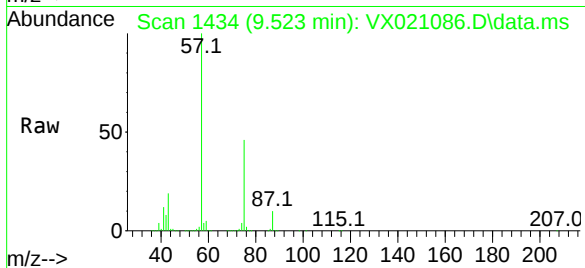




#57  
1,3-Dichloropropane  
Concen: 4.99 ug/l  
RT: 9.523 min Scan# 1434  
Delta R.T. 0.170 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

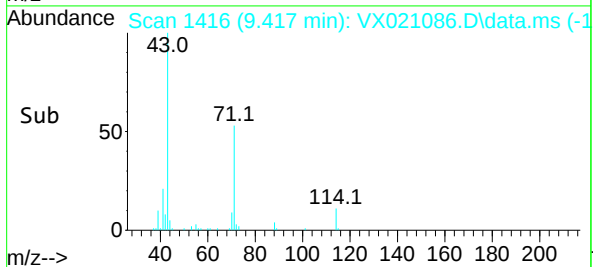
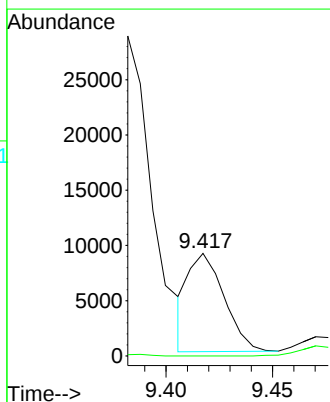
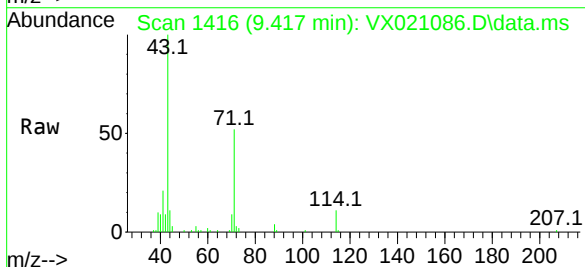
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB135028ZHE#04

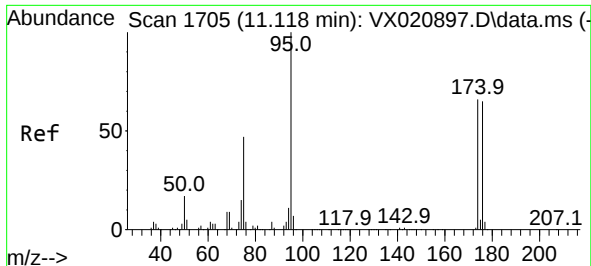
Tgt Ion: 76 Resp: 24868  
Ion Ratio Lower Upper  
76 100  
78 0.6 26.2 39.2#



#59  
2-Hexanone  
Concen: 3.76 ug/l  
RT: 9.417 min Scan# 1416  
Delta R.T. -0.053 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

Tgt Ion: 43 Resp: 10463  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.9 92.8#

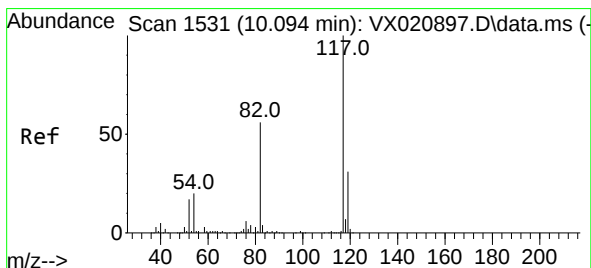
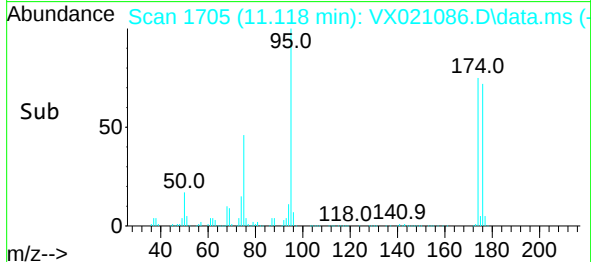
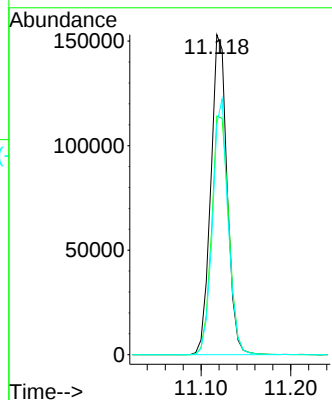
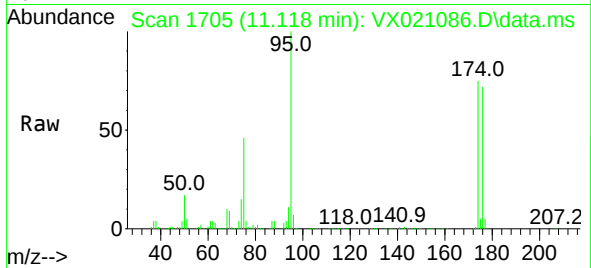




#62  
4-Bromofluorobenzene  
Concen: 53.24 ug/l  
RT: 11.118 min Scan# 1705  
Delta R.T. -0.000 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

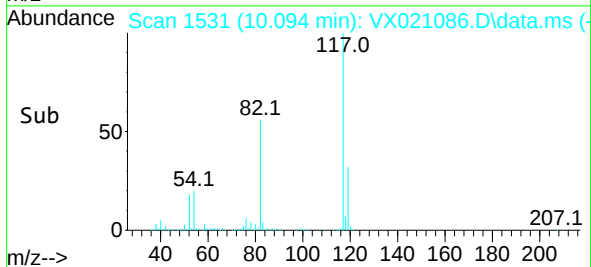
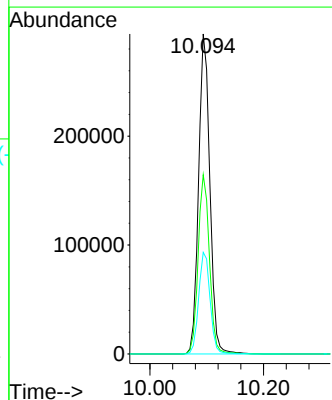
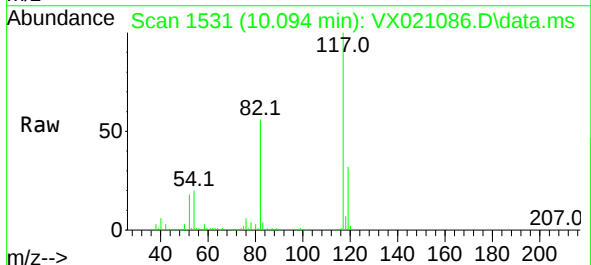
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB135028ZHE#04

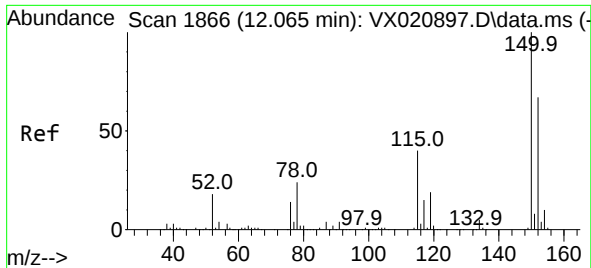
Tgt Ion: 95 Resp: 193223  
Ion Ratio Lower Upper  
95 100  
174 78.8 0.0 154.6  
176 76.4 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.094 min Scan# 1531  
Delta R.T. -0.000 min  
Lab File: VX021086.D  
Acq: 09 Mar 2021 01:30

Tgt Ion: 117 Resp: 406231  
Ion Ratio Lower Upper  
117 100  
82 56.0 47.4 71.2  
119 31.8 26.6 39.8

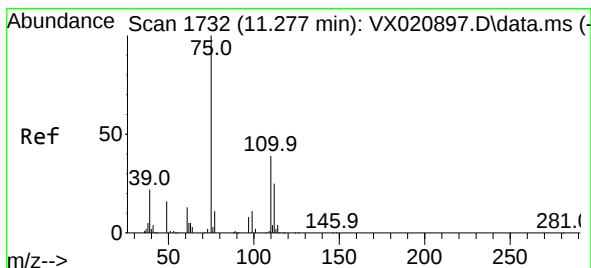
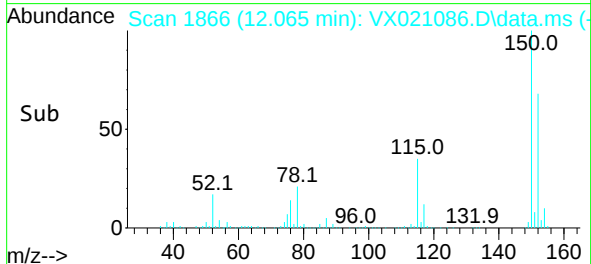
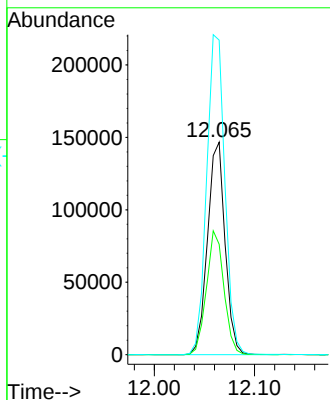
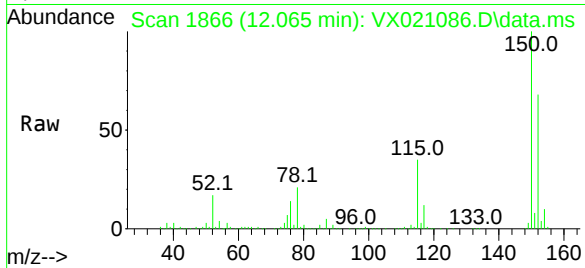




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.00 ug/l  
 RT: 12.065 min Scan# 1866  
 Delta R.T. -0.000 min  
 Lab File: VX021086.D  
 Acq: 09 Mar 2021 01:30

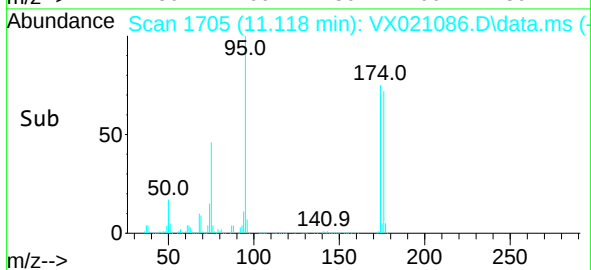
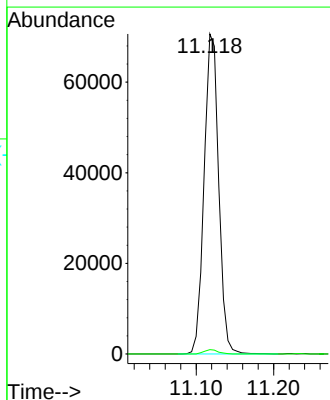
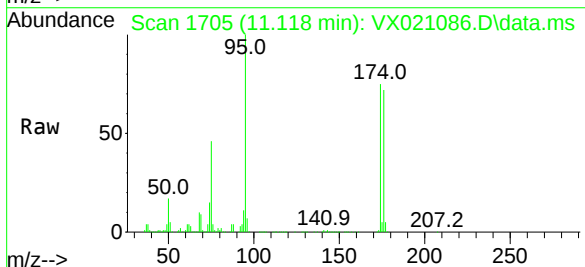
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB135028ZHE#04

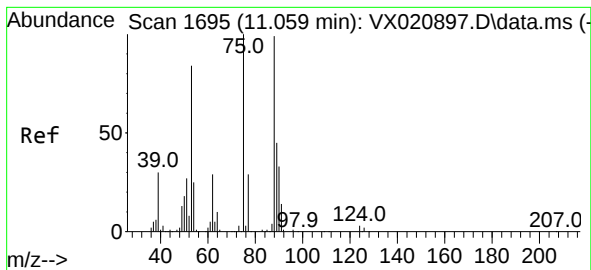
Tgt Ion:152 Resp: 179403  
 Ion Ratio Lower Upper  
 152 100  
 115 57.9 41.1 123.3  
 150 156.0 0.0 349.0



#76  
 1,2,3-Trichloropropane  
 Concen: 23.98 ug/l  
 RT: 11.118 min Scan# 1705  
 Delta R.T. -0.159 min  
 Lab File: VX021086.D  
 Acq: 09 Mar 2021 01:30

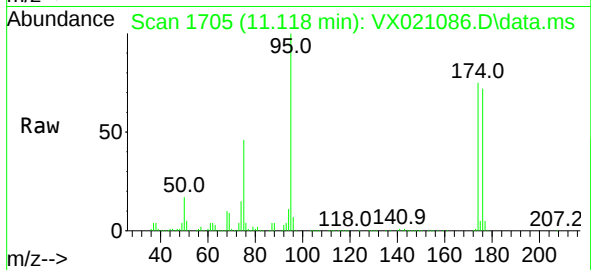
Tgt Ion: 75 Resp: 92551  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 53.09 ug/l  
 RT: 11.118 min Scan# 1705  
 Delta R.T. 0.058 min  
 Lab File: VX021086.D  
 Acq: 09 Mar 2021 01:30

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB135028ZHE#04



Tgt Ion: 75 Resp: 92551  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.5 111.7#  
 89 0.0 37.9 56.9#

