

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX030123\  
 Data File : VX034287.D  
 Acq On : 01 Mar 2023 12:56  
 Operator : JC/MD  
 Sample : 01739-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 02 00:41:42 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 17 12:33:35 2023  
 Response via : Initial Calibration

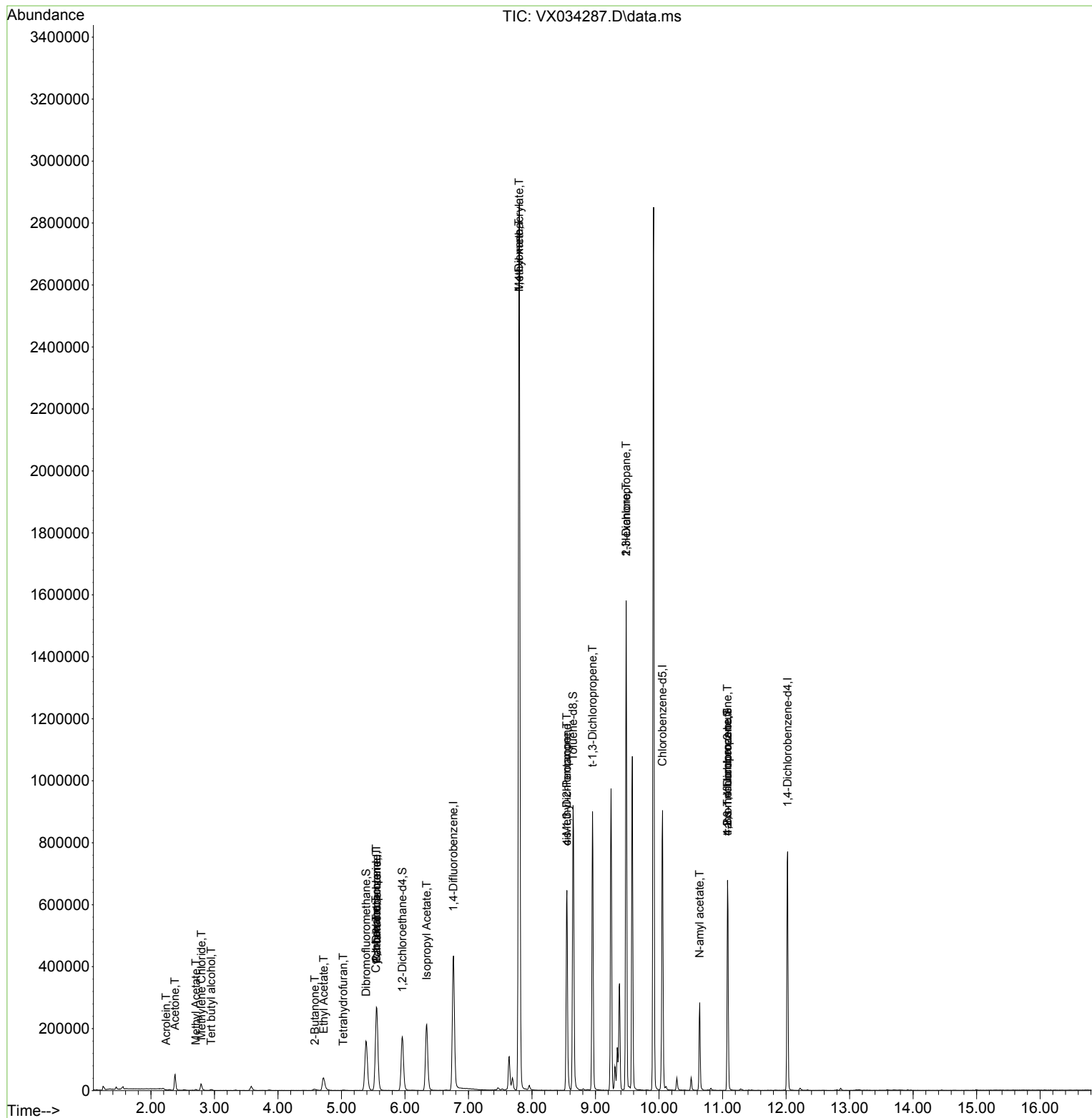
| Compound                      | R.T.   | QIon           | Response | Conc          | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|---------------|----------|----------|
| Internal Standards            |        |                |          |               |          |          |
| 1) Pentafluorobenzene         | 5.556  | 168            | 270687   | 50.000        | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114            | 446697   | 50.000        | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117            | 392205   | 50.000        | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152            | 166847   | 50.000        | ug/l     | 0.00     |
| System Monitoring Compounds   |        |                |          |               |          |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65             | 159118   | 43.648        | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 78 - 117 | Recovery | =             | 87.300%  |          |
| 35) Dibromofluoromethane      | 5.385  | 113            | 139753   | 48.051        | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | =             | 96.100%  |          |
| 50) Toluene-d8                | 8.647  | 98             | 533050   | 51.047        | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 92 - 112 | Recovery | =             | 102.100% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95             | 178556   | 44.704        | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | =             | 89.400%  |          |
| Target Compounds              |        |                |          |               |          |          |
|                               |        |                |          |               | Qvalue   |          |
| 5) Bromomethane               | 1.624  | 94             | 424      | Below Cal     |          | 87       |
| 11) Tert butyl alcohol        | 2.946  | 59             | 2290     | 2.809 ug/l #  |          | 95       |
| 13) Acrolein                  | 2.239  | 56             | 172      | 0.462 ug/l    |          | 91       |
| 16) Acetone                   | 2.380  | 43             | 51875    | 27.585 ug/l   |          | 96       |
| 18) Methyl Acetate            | 2.709  | 43             | 3990     | 0.686 ug/l    |          | 92       |
| 20) Methylene Chloride        | 2.794  | 84             | 9455     | 2.790 ug/l    |          | 97       |
| 25) 2-Butanone                | 4.580  | 43             | 6586     | 2.420 ug/l    |          | 94       |
| 29) Tetrahydrofuran           | 5.025  | 42             | 1004     | 0.605 ug/l #  |          | 39       |
| 31) Cyclohexane               | 5.544  | 56             | 5744     | 1.055 ug/l #  |          | 39       |
| 36) 1,1-Dichloropropene       | 5.550  | 75             | 19745    | 4.590 ug/l #  |          | 49       |
| 37) Ethyl Acetate             | 4.721  | 43             | 75722    | 15.752 ug/l   |          | 99       |
| 38) Carbon Tetrachloride      | 5.550  | 117            | 25600    | 5.784 ug/l #  |          | 16       |
| 43) Isopropyl Acetate         | 6.342  | 43             | 303986   | 35.835 ug/l   |          | 99       |
| 48) Methyl methacrylate       | 7.799  | 41             | 237702   | 59.038 ug/l # |          | 45       |
| 49) 1,4-Dioxane               | 7.793  | 88             | 388      | 4.831 ug/l #  |          | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43             | 224800   | 48.167 ug/l # |          | 49       |
| 53) t-1,3-Dichloropropene     | 8.951  | 75             | 1994     | 0.378 ug/l #  |          | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75             | 105211   | 18.630 ug/l # |          | 57       |
| 57) 1,3-Dichloropropane       | 9.482  | 76             | 12885    | 2.376 ug/l #  |          | 43       |
| 59) 2-Hexanone                | 9.482  | 43             | 182923   | 51.429 ug/l # |          | 50       |
| 74) N-amyl acetate            | 10.640 | 43             | 76319    | 11.947 ug/l # |          | 51       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75             | 87957    | 20.950 ug/l # |          | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75             | 87957    | 53.820 ug/l # |          | 8        |

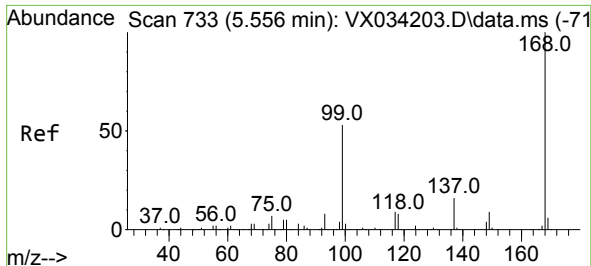
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX030123\  
Data File : VX034287.D  
Acq On : 01 Mar 2023 12:56  
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Sample : 01739-03  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

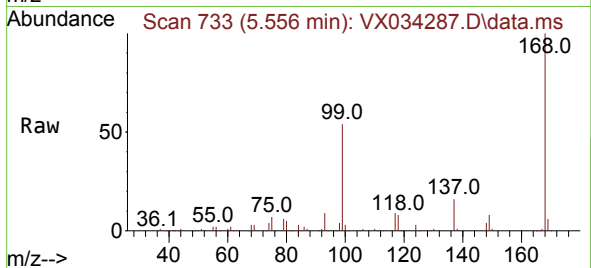
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X021723W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 17 12:33:35 2023  
Response via : Initial Calibration



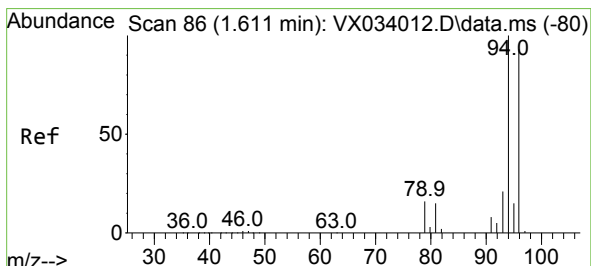
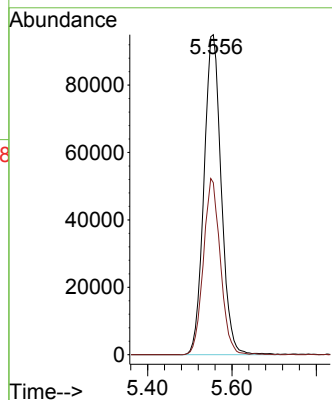
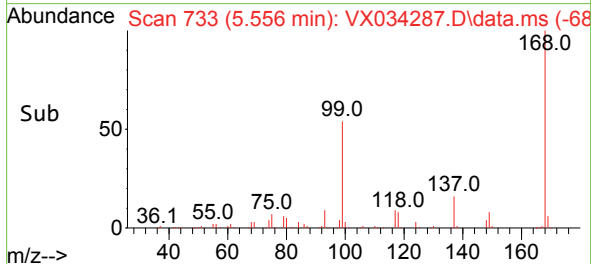


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

Instrument :  
MSVOA\_X  
ClientSampleId :

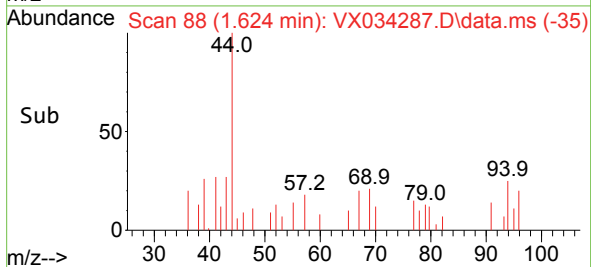
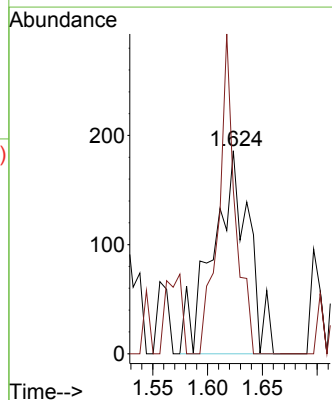
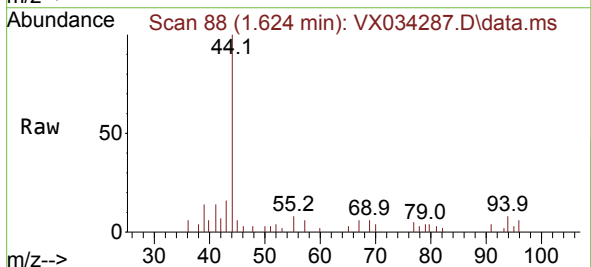


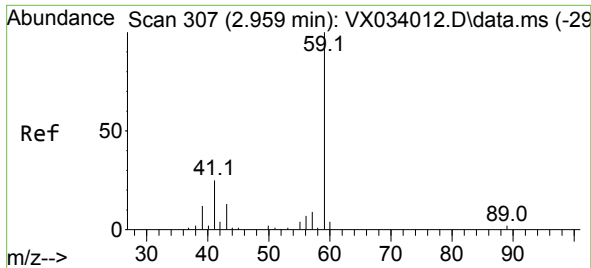
Tgt Ion:168 Resp: 270687  
Ion Ratio Lower Upper  
168 100  
99 53.7 39.6 59.4



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.624 min Scan# 88  
Delta R.T. 0.025 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

Tgt Ion: 94 Resp: 424  
Ion Ratio Lower Upper  
94 100  
96 80.6 74.3 111.5

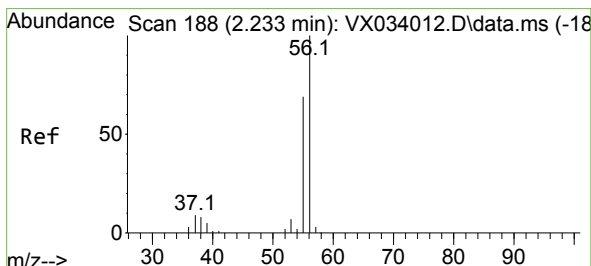
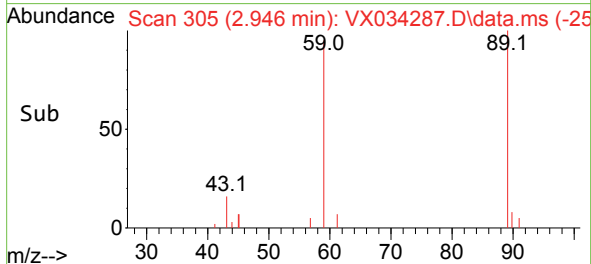
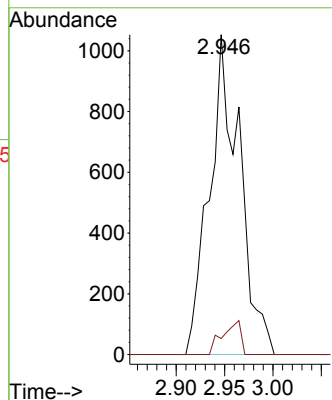
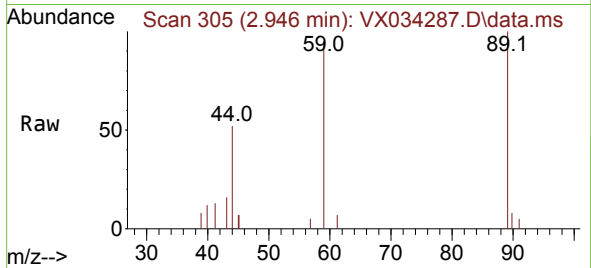




#11  
Tert butyl alcohol  
Concen: 2.809 ug/l  
RT: 2.946 min Scan# 307  
Delta R.T. -0.006 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

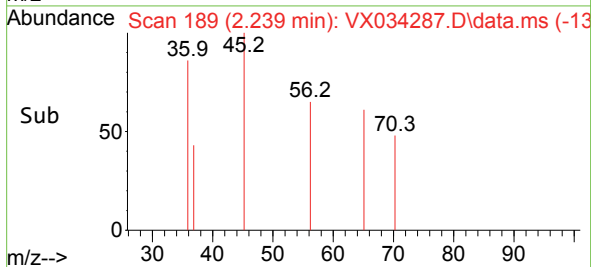
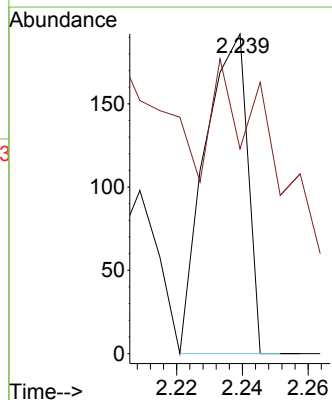
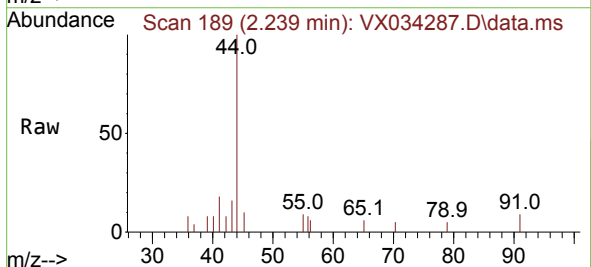
Instrument :  
MSVOA\_X  
ClientSampleId :

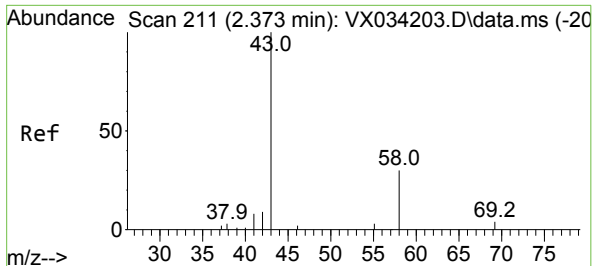
Tgt Ion: 59 Resp: 2290  
Ion Ratio Lower Upper  
59 100  
57 6.4 3.7 5.5#



#13  
Acrolein  
Concen: 0.462 ug/l  
RT: 2.239 min Scan# 189  
Delta R.T. 0.006 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

Tgt Ion: 56 Resp: 172  
Ion Ratio Lower Upper  
56 100  
55 77.9 56.3 84.5

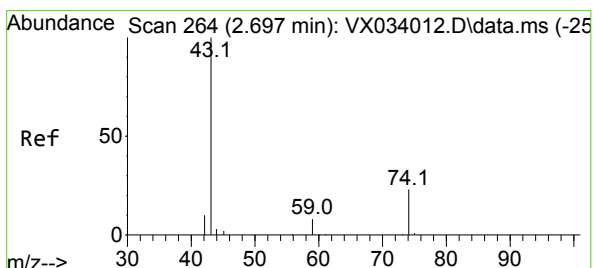
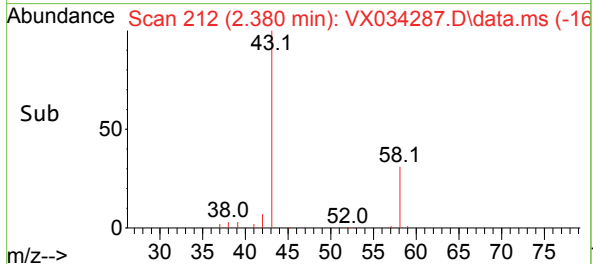
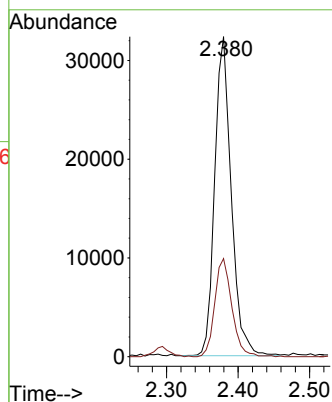
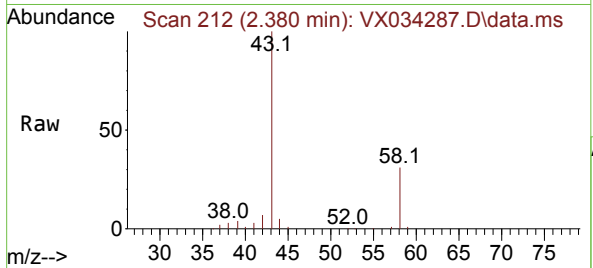




#16  
Acetone  
Concen: 27.585 ug/l  
RT: 2.380 min Scan# 211  
Delta R.T. 0.006 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

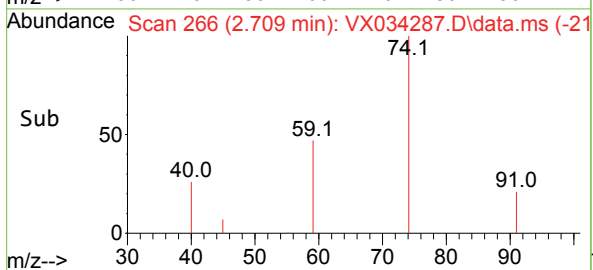
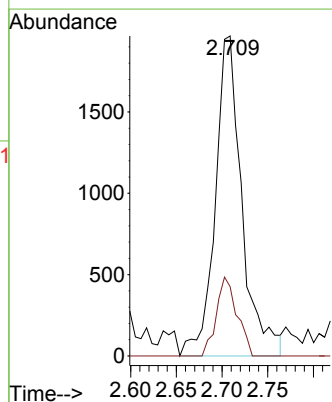
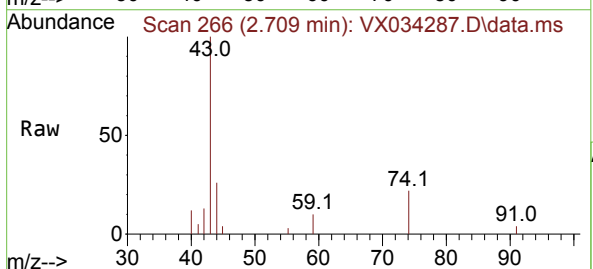
Instrument :  
MSVOA\_X  
ClientSampleId :

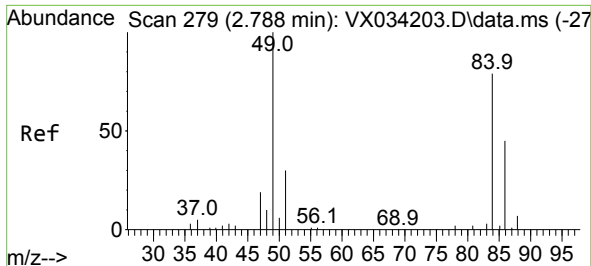
Tgt Ion: 43 Resp: 51875  
Ion Ratio Lower Upper  
43 100  
58 30.5 22.6 33.8



#18  
Methyl Acetate  
Concen: 0.686 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.012 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

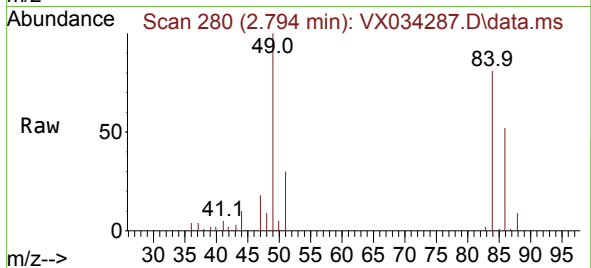
Tgt Ion: 43 Resp: 3990  
Ion Ratio Lower Upper  
43 100  
74 19.1 18.2 27.4



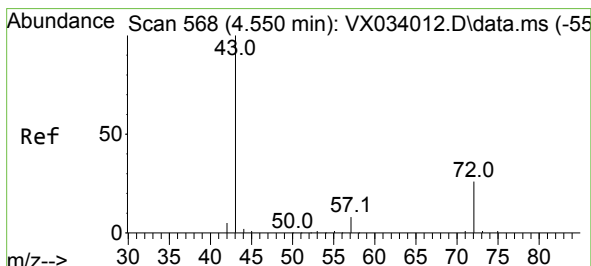
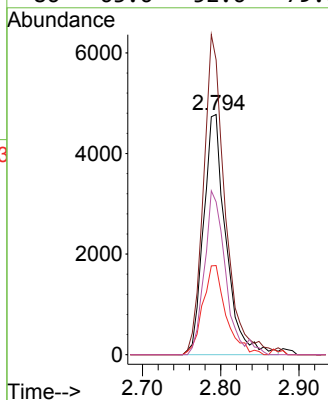
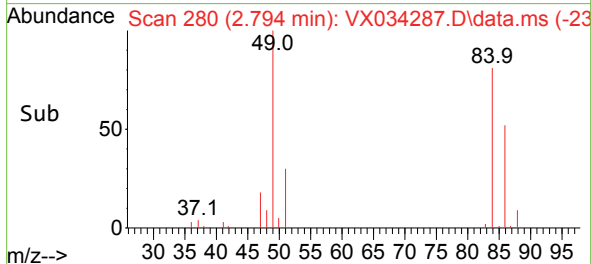


#20  
Methylene Chloride  
Concen: 2.790 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

Instrument :  
MSVOA\_X  
ClientSampleId :

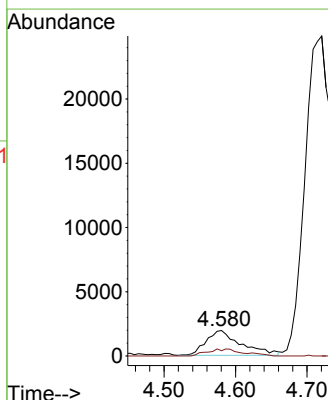
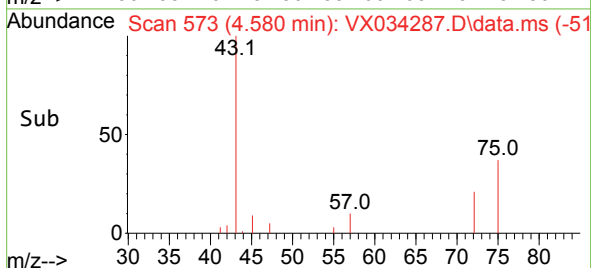
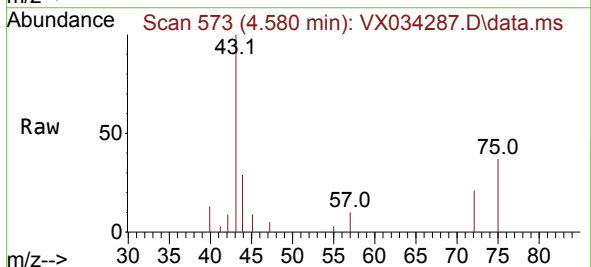


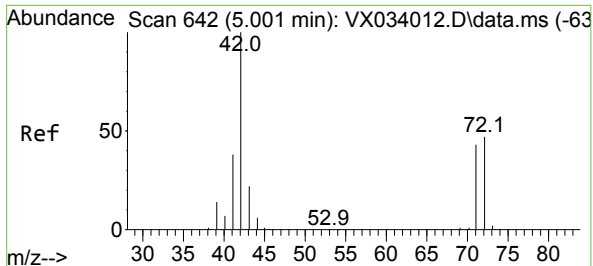
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 9455  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 122.7 | 101.1 | 151.7 |
| 51       | 37.1  | 31.0  | 46.6  |
| 86       | 63.6  | 52.6  | 79.0  |



#25  
2-Butanone  
Concen: 2.420 ug/l  
RT: 4.580 min Scan# 573  
Delta R.T. 0.037 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 6586  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 21.2  | 19.4  | 29.2  |





#29

Tetrahydrofuran

Concen: 0.605 ug/l

RT: 5.025 min Scan# 642

Delta R.T. 0.031 min

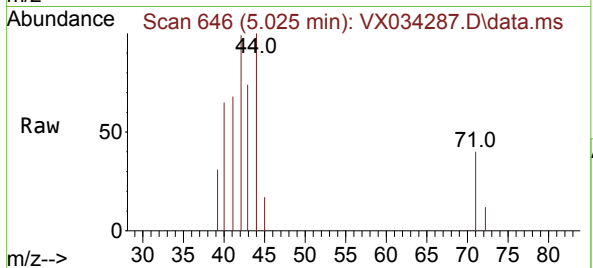
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Acq: 01 Mar 2023 12:56

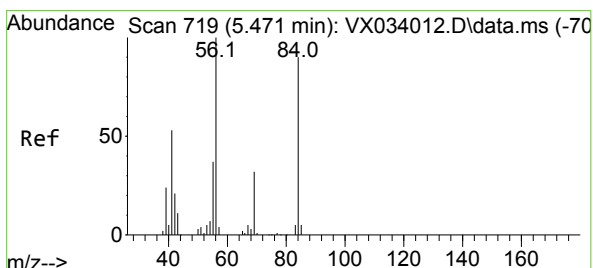
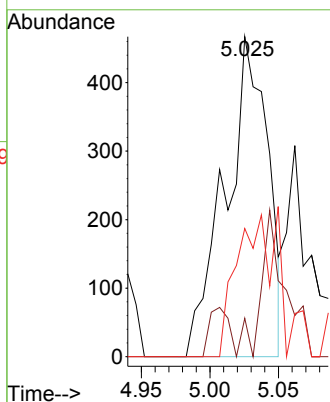
Instrument :

MSVOA\_X

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 1004  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 7.1   | 34.8  | 52.2# |
| 71       | 0.0   | 32.2  | 48.2# |



#31

Cyclohexane

Concen: 1.055 ug/l

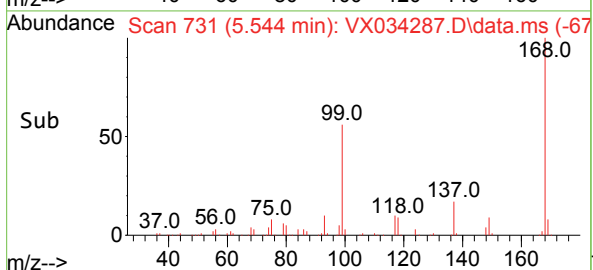
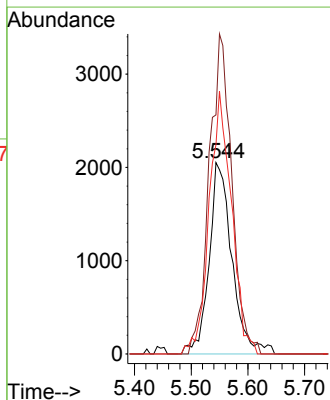
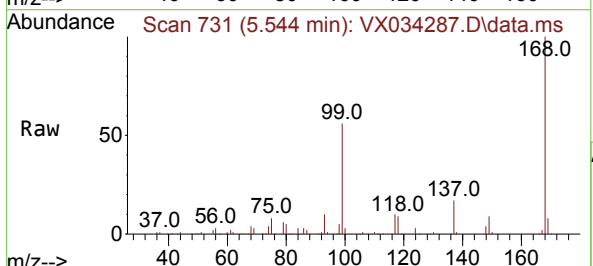
RT: 5.544 min Scan# 731

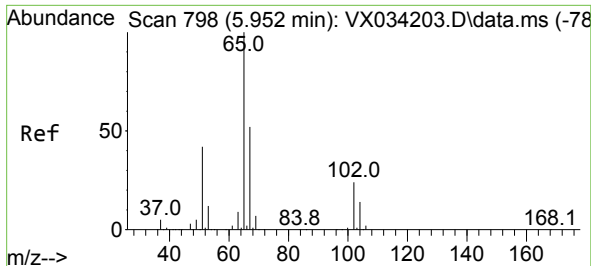
Delta R.T. 0.073 min

Lab File: VX034287.D

Acq: 01 Mar 2023 12:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 5744   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 125.0 | 24.6  | 37.0#  |
| 84       | 109.4 | 71.0  | 106.6# |





#33

1,2-Dichloroethane-d4

Concen: 43.648 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX034287.D

Acq: 01 Mar 2023 12:56

Instrument :

MSVOA\_X

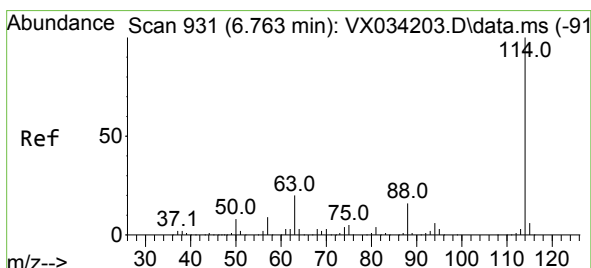
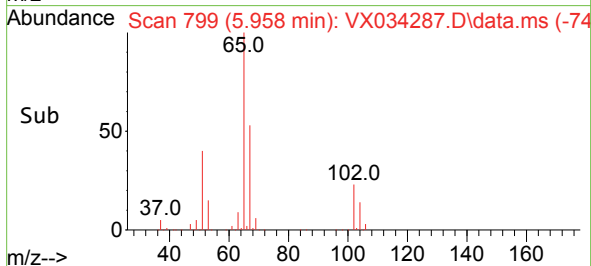
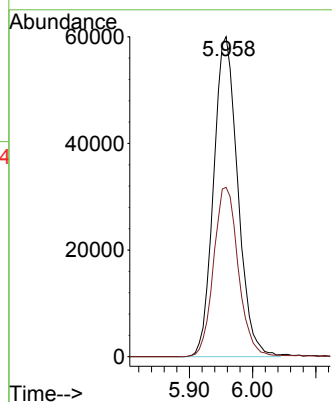
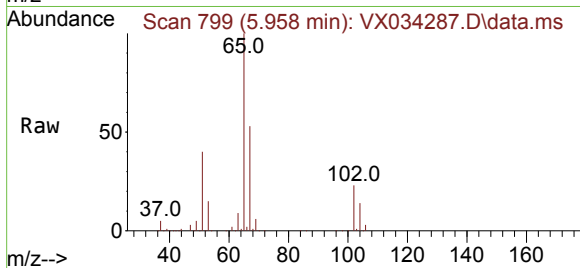
ClientSampleId :

Tgt Ion: 65 Resp: 159118

Ion Ratio Lower Upper

65 100

67 54.4 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX034287.D

Acq: 01 Mar 2023 12:56

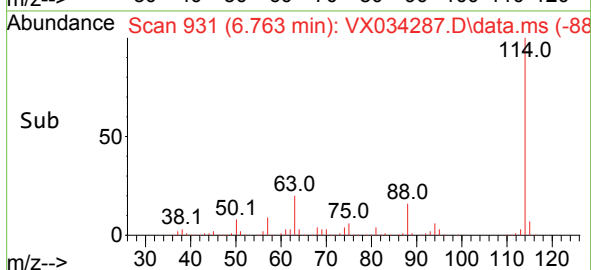
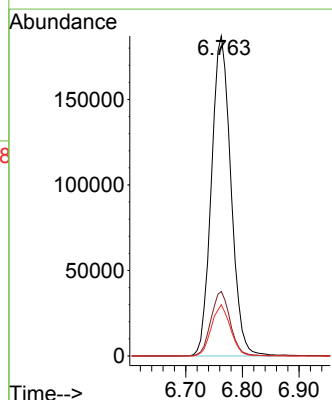
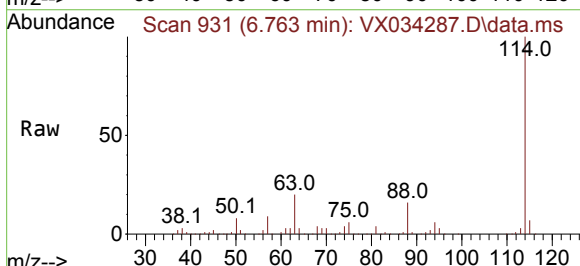
Tgt Ion: 114 Resp: 446697

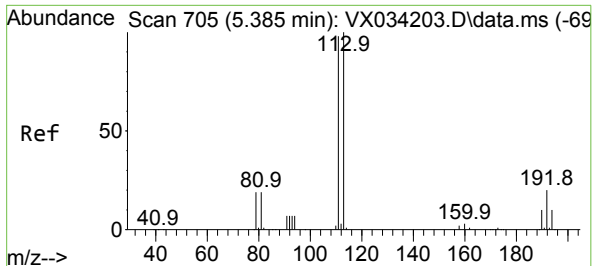
Ion Ratio Lower Upper

114 100

63 20.1 0.0 37.4

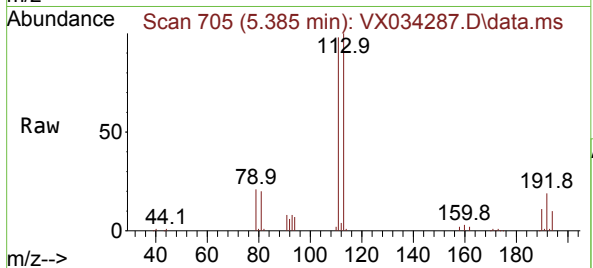
88 16.0 0.0 30.6



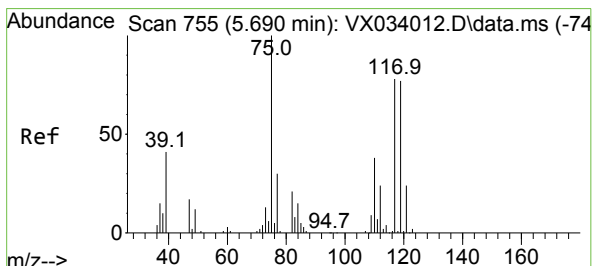
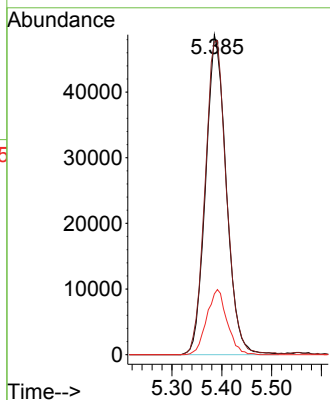
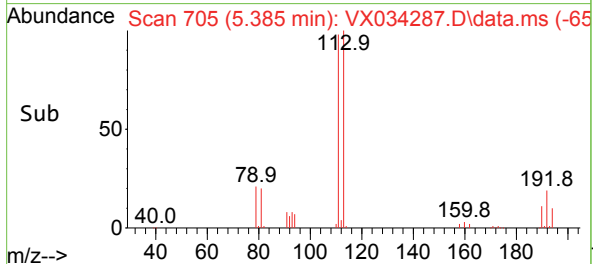


#35  
 Dibromofluoromethane  
 Concen: 48.051 ug/l  
 RT: 5.385 min Scan# 705  
 Delta R.T. 0.000 min  
 Lab File: VX034287.D  
 Acq: 01 Mar 2023 12:56

Instrument :  
 MSVOA\_X  
 ClientSampleId :

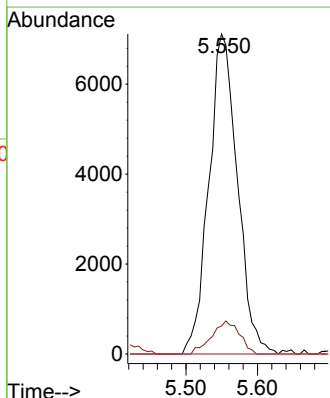
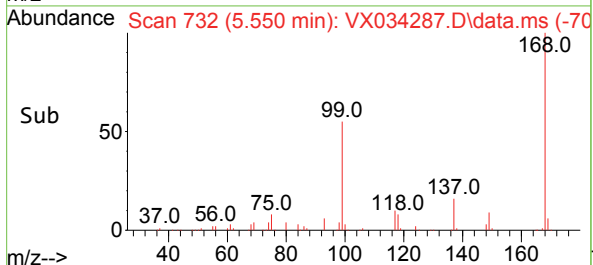
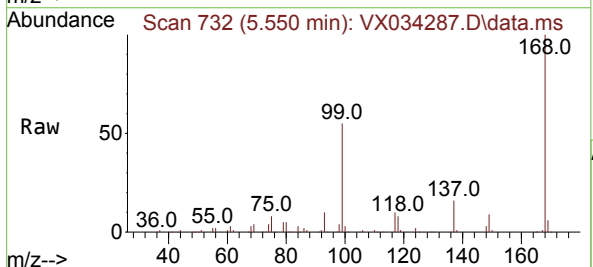


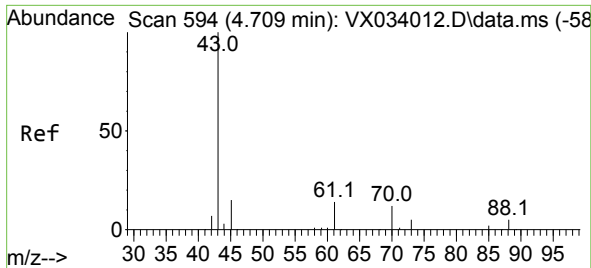
Tgt Ion:113 Resp: 139753  
 Ion Ratio Lower Upper  
 113 100  
 111 102.0 83.0 124.6  
 192 20.2 19.0 28.4



#36  
 1,1-Dichloropropene  
 Concen: 4.590 ug/l  
 RT: 5.550 min Scan# 732  
 Delta R.T. -0.140 min  
 Lab File: VX034287.D  
 Acq: 01 Mar 2023 12:56

Tgt Ion: 75 Resp: 19745  
 Ion Ratio Lower Upper  
 75 100  
 110 10.1 18.8 56.4#  
 77 0.0 25.1 37.7#

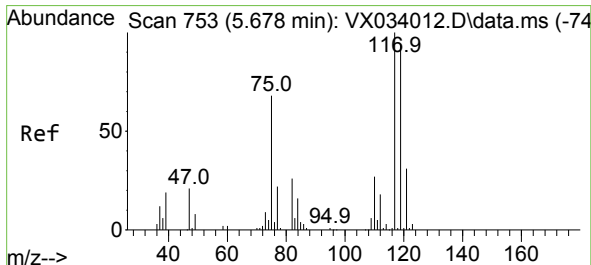
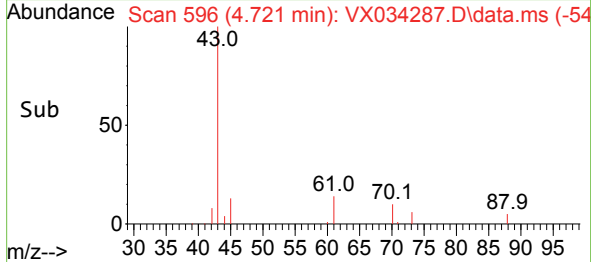
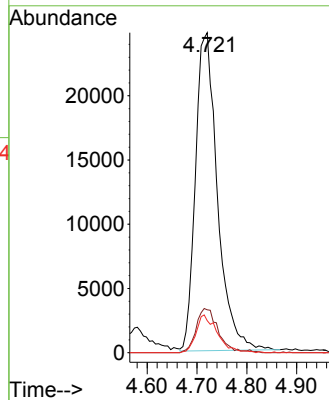
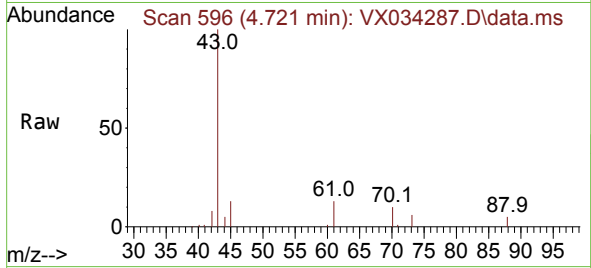




#37  
Ethyl Acetate  
Concen: 15.752 ug/l  
RT: 4.721 min Scan# 596  
Delta R.T. 0.012 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

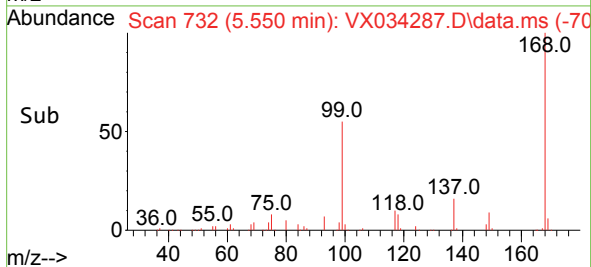
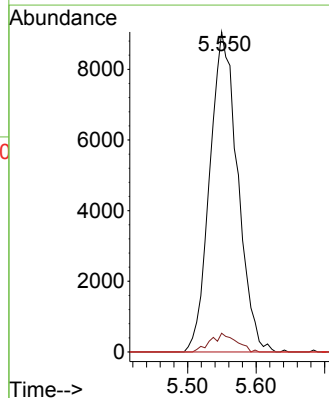
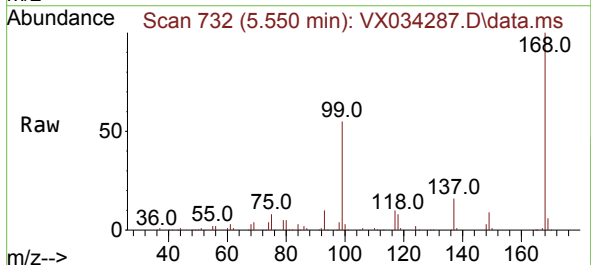
Instrument :  
MSVOA\_X  
ClientSampleId :

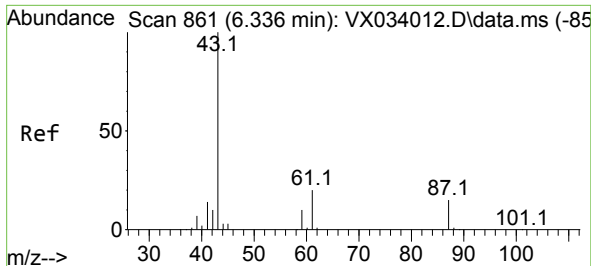
Tgt Ion: 43 Resp: 75722  
Ion Ratio Lower Upper  
43 100  
61 13.8 11.1 16.7  
70 11.5 8.5 12.7



#38  
Carbon Tetrachloride  
Concen: 5.784 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.122 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

Tgt Ion: 117 Resp: 25600  
Ion Ratio Lower Upper  
117 100  
119 5.9 78.0 117.0#  
121 0.0 24.4 36.6#

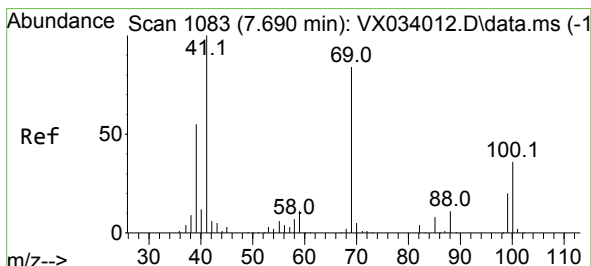
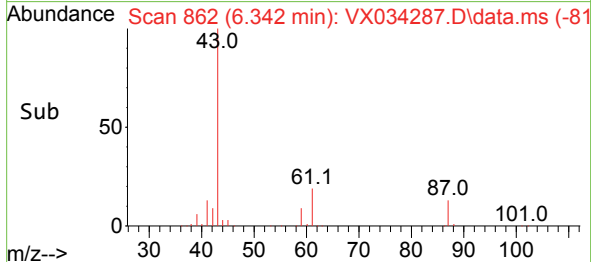
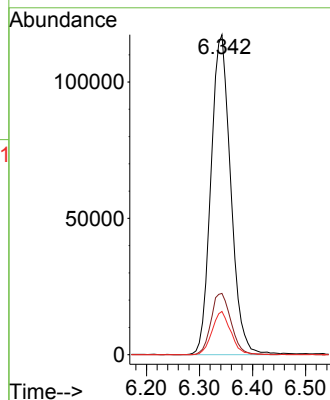
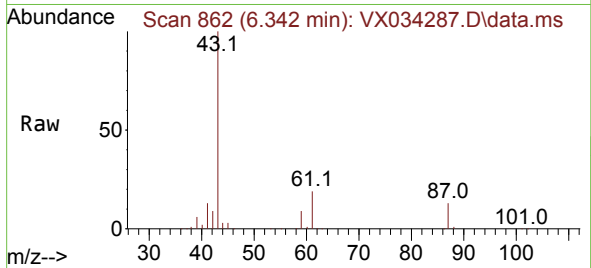




#43  
Isopropyl Acetate  
Concen: 35.835 ug/l  
RT: 6.342 min Scan# 80  
Delta R.T. 0.006 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

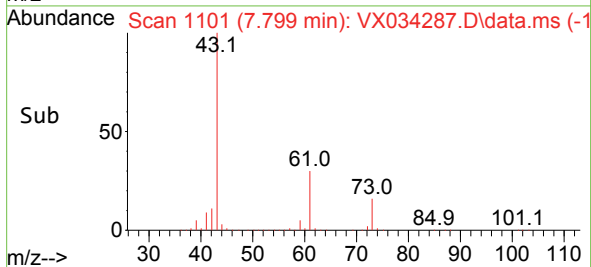
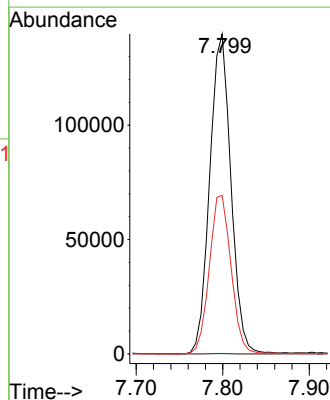
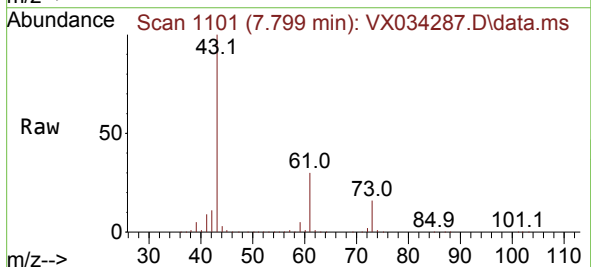
Instrument :  
MSVOA\_X  
ClientSampleId :

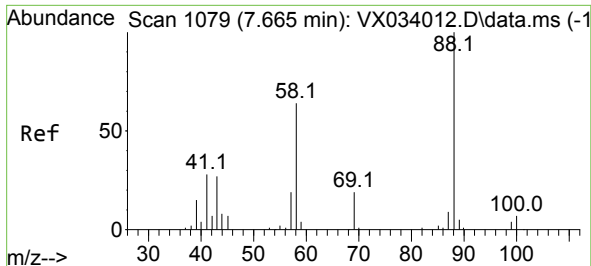
Tgt Ion: 43 Resp: 303986  
Ion Ratio Lower Upper  
43 100  
61 19.4 15.7 23.5  
87 12.8 10.6 15.8



#48  
Methyl methacrylate  
Concen: 59.038 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.110 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

Tgt Ion: 41 Resp: 237702  
Ion Ratio Lower Upper  
41 100  
69 0.1 63.1 94.7#  
39 51.0 43.2 64.8





#49

1,4-Dioxane

Concen: 4.831 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.140 min

Lab File: VX034287.D

Acq: 01 Mar 2023 12:56

Instrument :

MSVOA\_X

ClientSampleId :

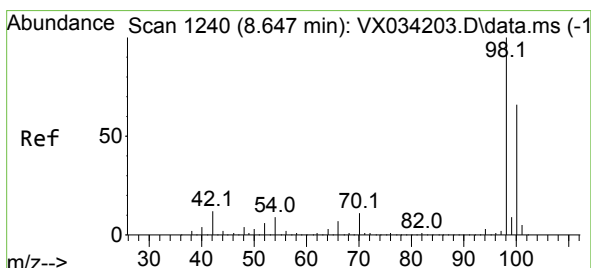
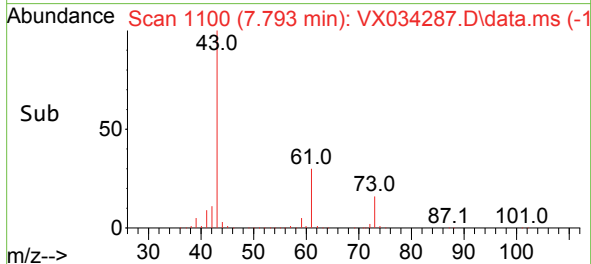
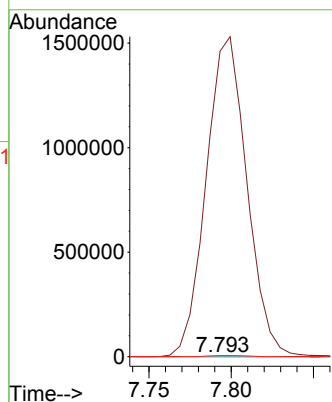
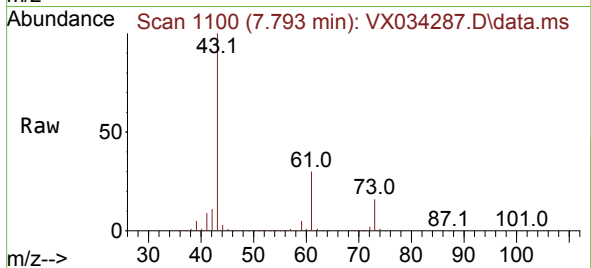
Tgt Ion: 88 Resp: 388

Ion Ratio Lower Upper

88 100

43 683024.7 0.0 0.0#

58 2542.8 56.5 84.7#



#50

Toluene-d8

Concen: 51.047 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX034287.D

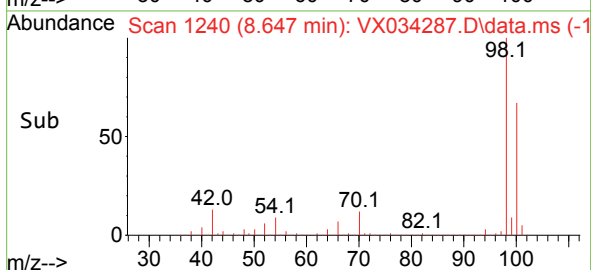
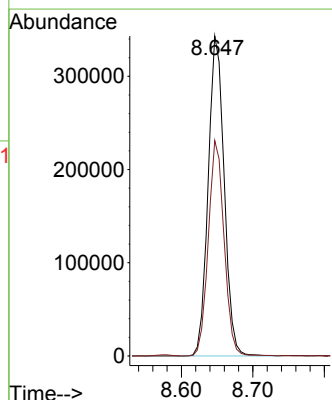
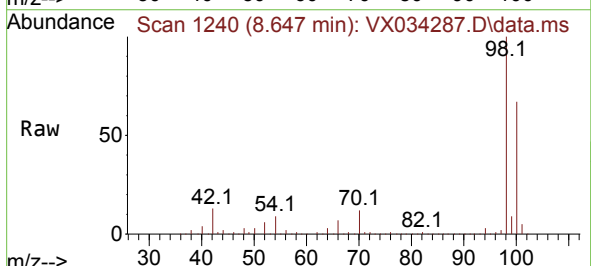
Acq: 01 Mar 2023 12:56

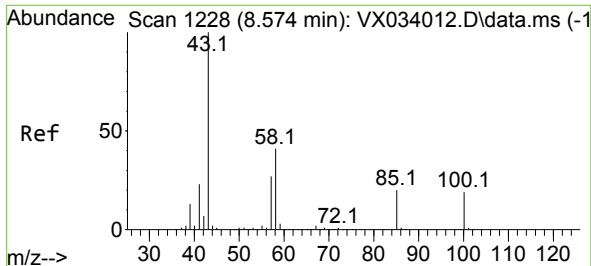
Tgt Ion: 98 Resp: 533050

Ion Ratio Lower Upper

98 100

100 66.5 53.6 80.4

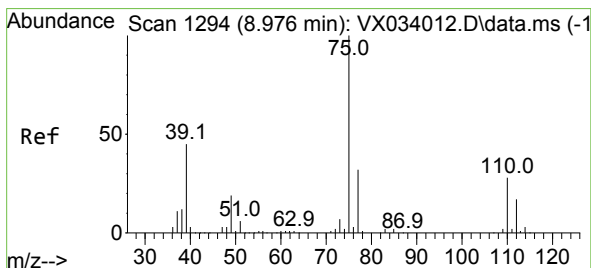
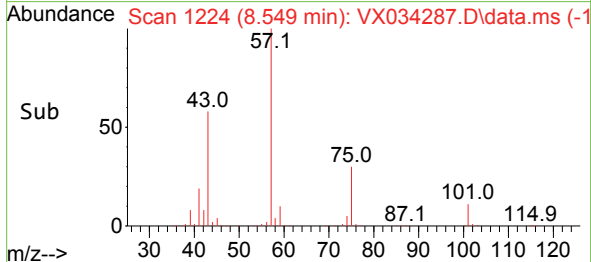
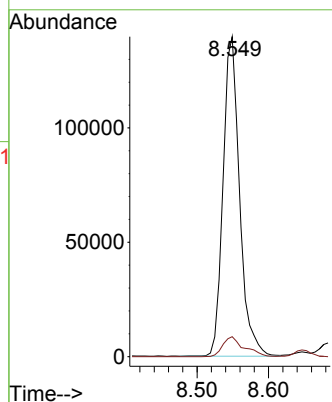
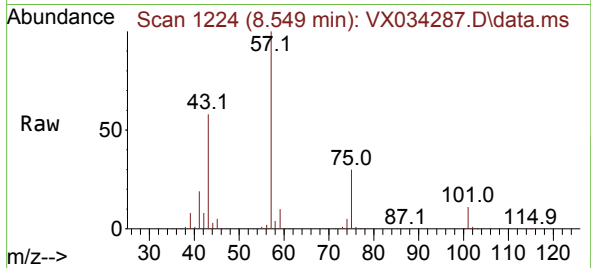




#51  
4-Methyl-2-Pentanone  
Concen: 48.167 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

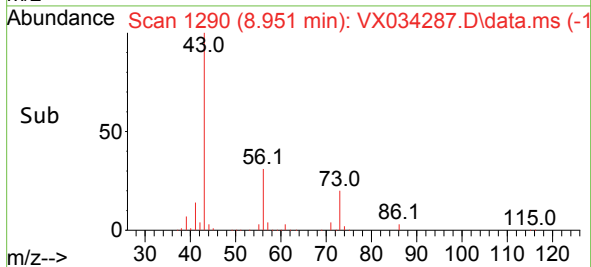
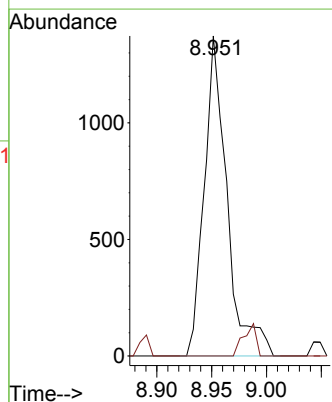
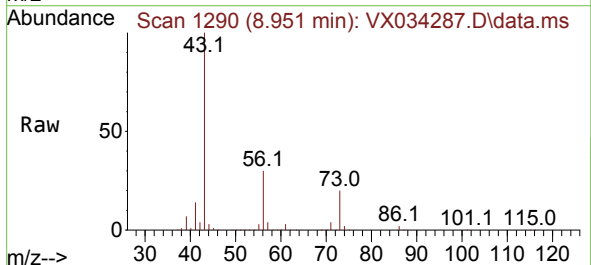
Instrument :  
MSVOA\_X  
ClientSampleId :

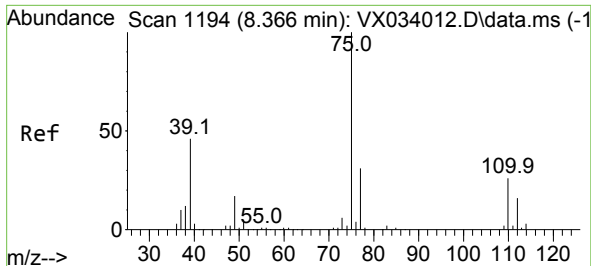
Tgt Ion: 43 Resp: 224800  
Ion Ratio Lower Upper  
43 100  
58 8.1 31.2 46.8#



#53  
t-1,3-Dichloropropene  
Concen: 0.378 ug/l  
RT: 8.951 min Scan# 1290  
Delta R.T. -0.024 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

Tgt Ion: 75 Resp: 1994  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.5 38.3#

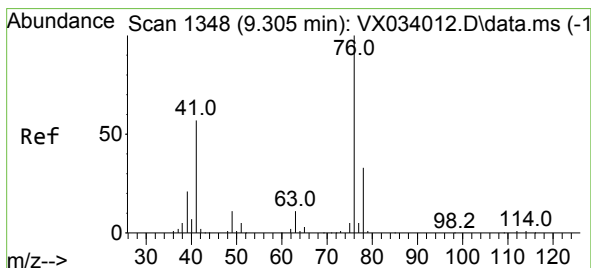
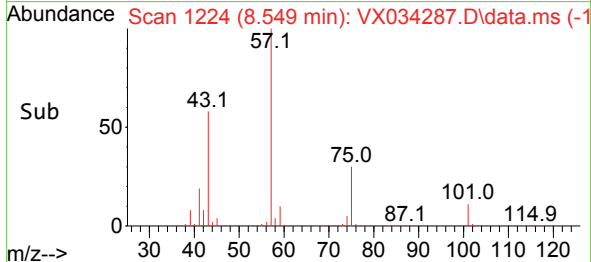
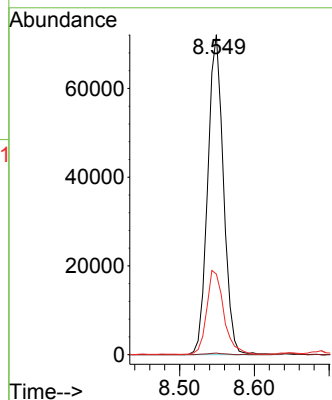
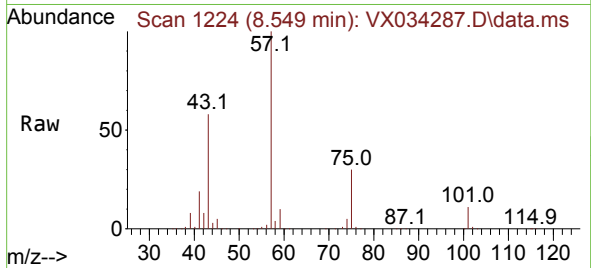




#54  
 cis-1,3-Dichloropropene  
 Concen: 18.630 ug/l  
 RT: 8.549 min Scan# 1194  
 Delta R.T. 0.183 min  
 Lab File: VX034287.D  
 Acq: 01 Mar 2023 12:56

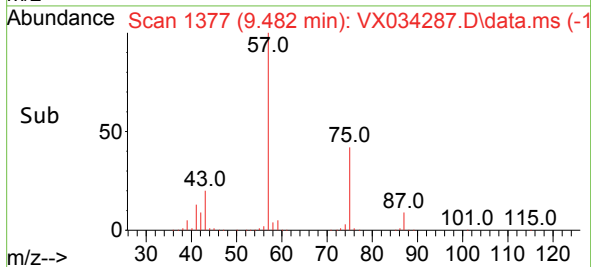
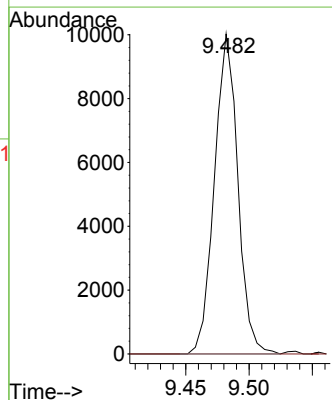
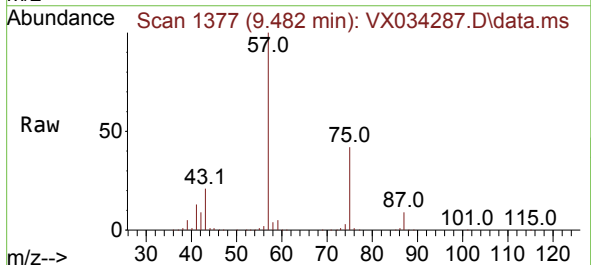
Instrument :  
 MSVOA\_X  
 ClientSampleId :

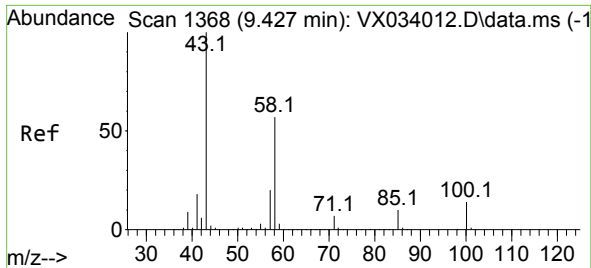
Tgt Ion: 75 Resp: 105211  
 Ion Ratio Lower Upper  
 75 100  
 77 0.5 25.0 37.6#  
 39 25.1 38.6 58.0#



#57  
 1,3-Dichloropropane  
 Concen: 2.376 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.177 min  
 Lab File: VX034287.D  
 Acq: 01 Mar 2023 12:56

Tgt Ion: 76 Resp: 12885  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 25.6 38.4#

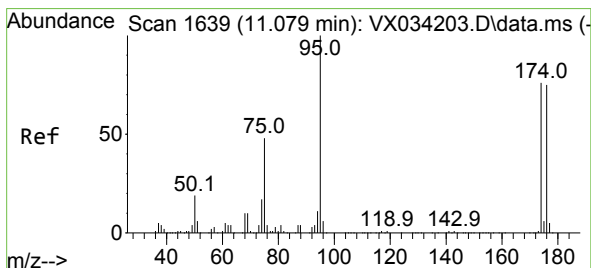
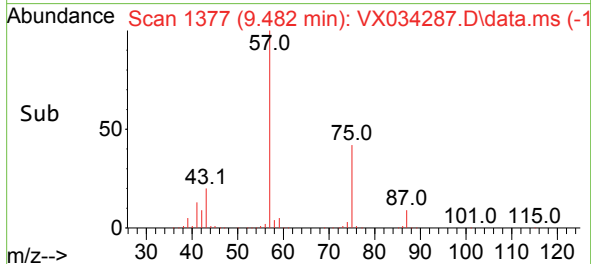
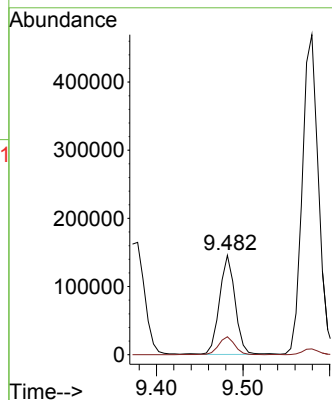
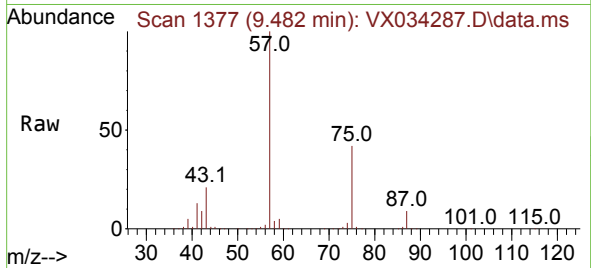




#59  
2-Hexanone  
Concen: 51.429 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.055 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

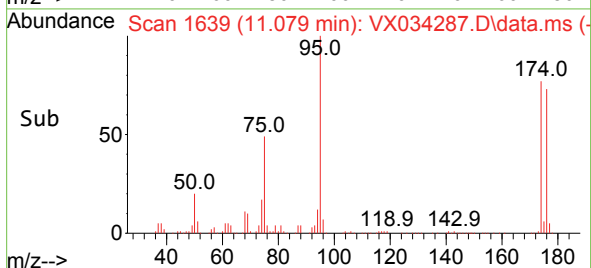
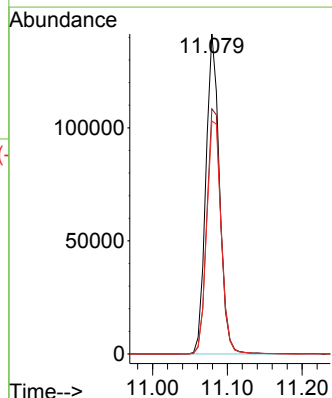
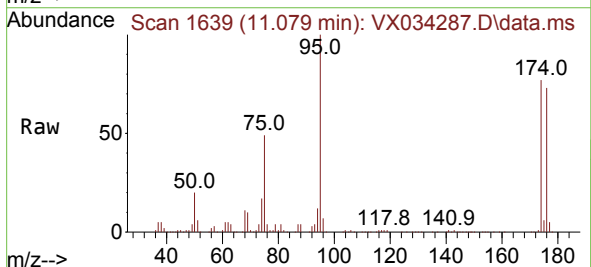
Instrument :  
MSVOA\_X  
ClientSampleId :

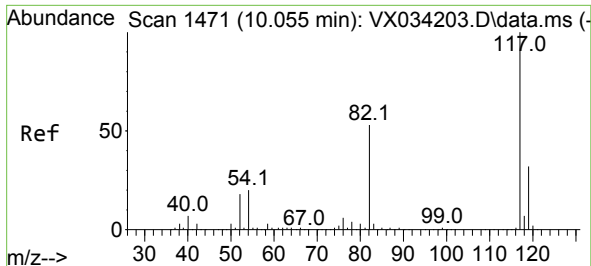
Tgt Ion: 43 Resp: 182923  
Ion Ratio Lower Upper  
43 100  
58 18.9 27.4 82.0#



#62  
4-Bromofluorobenzene  
Concen: 44.704 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

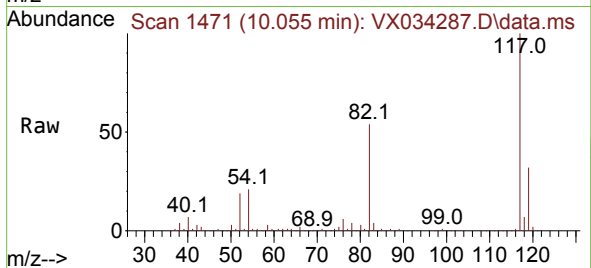
Tgt Ion: 95 Resp: 178556  
Ion Ratio Lower Upper  
95 100  
174 80.8 0.0 184.4  
176 77.4 0.0 178.8



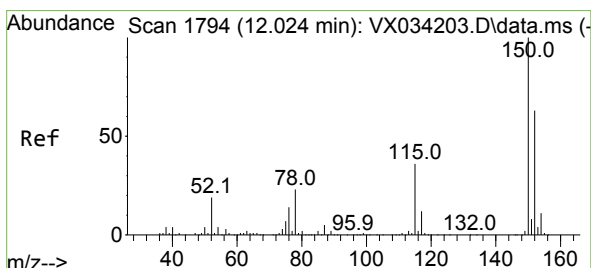
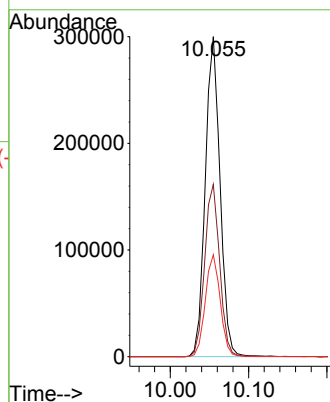
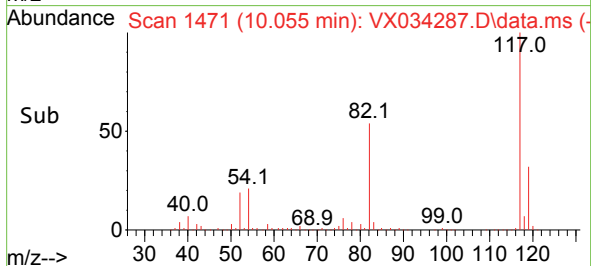


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

Instrument :  
MSVOA\_X  
ClientSampleId :

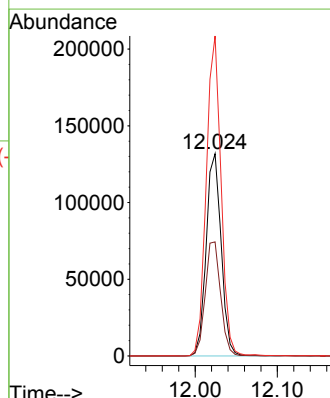
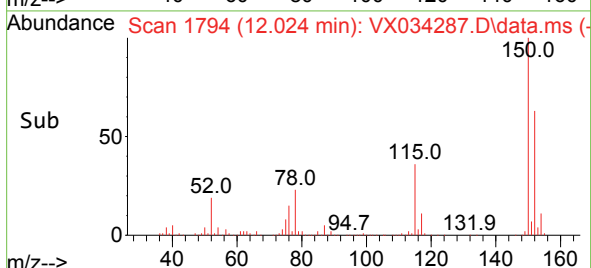
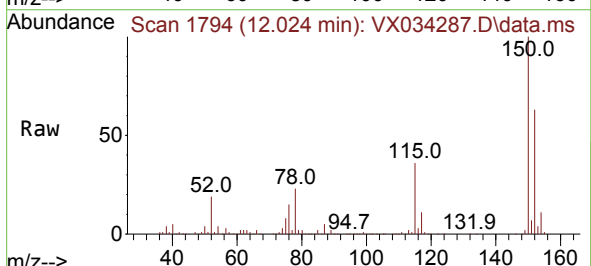


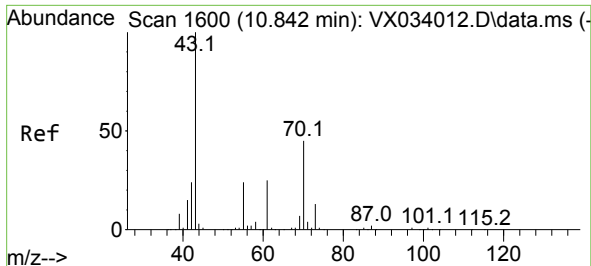
Tgt Ion:117 Resp: 392205  
Ion Ratio Lower Upper  
117 100  
82 53.9 40.6 60.8  
119 31.8 25.6 38.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

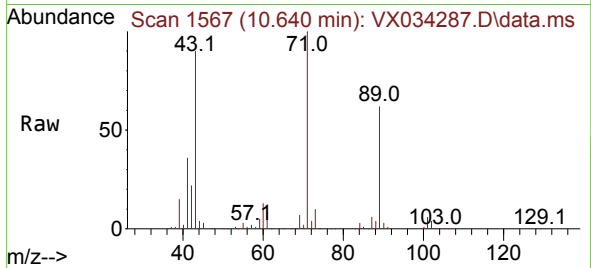
Tgt Ion:152 Resp: 166847  
Ion Ratio Lower Upper  
152 100  
115 58.1 38.7 116.1  
150 156.2 0.0 348.2



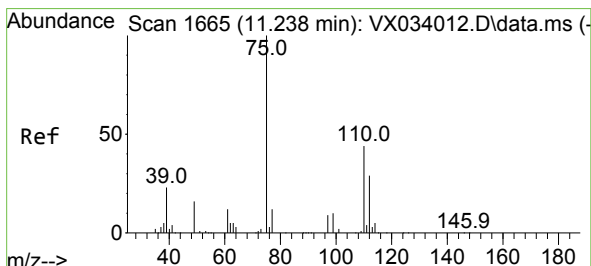
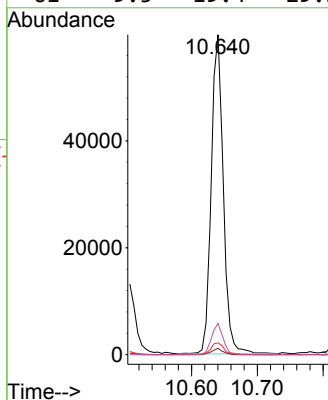
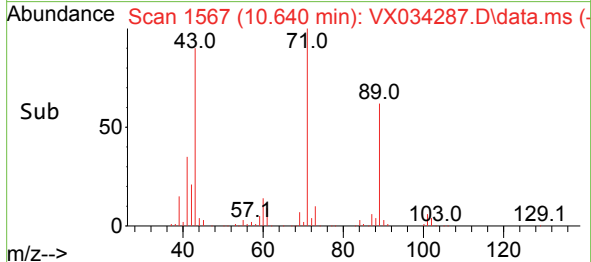


#74  
N-amy1 acetate  
Concen: 11.947 ug/l  
RT: 10.640 min Scan# 1639  
Delta R.T. -0.201 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

Instrument :  
MSVOA\_X  
ClientSampleId :

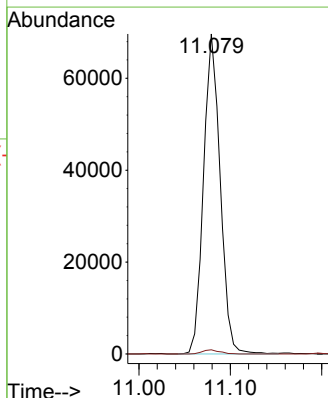
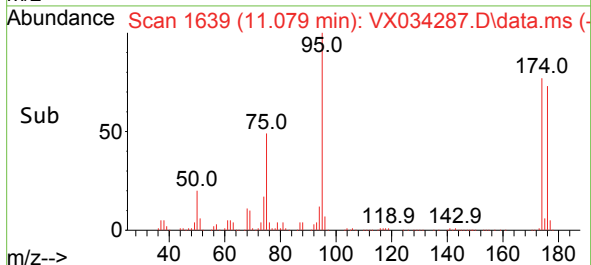
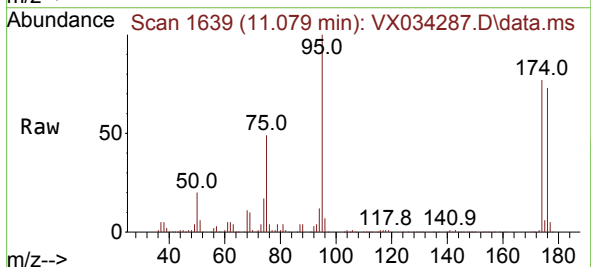


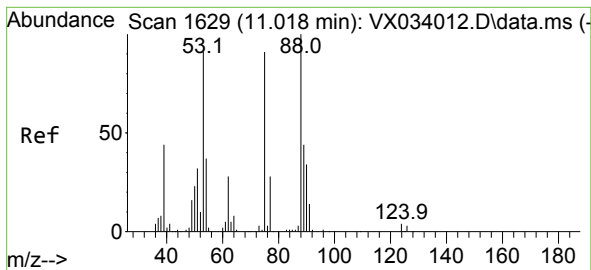
Tgt Ion: 43 Resp: 76319  
Ion Ratio Lower Upper  
43 100  
70 1.9 34.8 52.2#  
55 4.0 19.4 29.0#  
61 9.5 19.4 29.2#



#76  
1,2,3-Trichloropropane  
Concen: 20.950 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX034287.D  
Acq: 01 Mar 2023 12:56

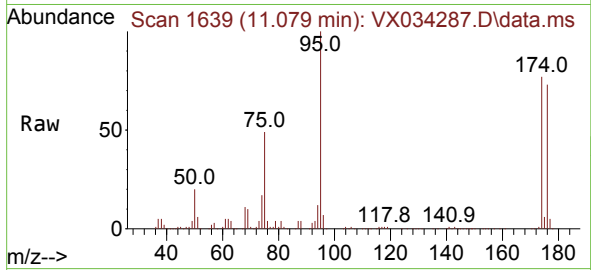
Tgt Ion: 75 Resp: 87957  
Ion Ratio Lower Upper  
75 100  
77 1.4 21.8 65.4#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 53.820 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX034287.D  
 Acq: 01 Mar 2023 12:56

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 87957  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 83.0 124.6#  
 89 0.0 37.7 56.5#

