

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061223\  
 Data File : VX036128.D  
 Acq On : 12 Jun 2023 17:12  
 Operator : JC/MD  
 Sample : PB153331ZHE#08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

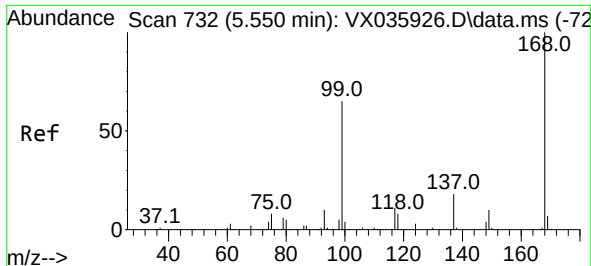
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB153331ZHE#08

Quant Time: Jun 13 04:51:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X053123W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 31 12:50:30 2023  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 202867     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 338314     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 305838     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 133533     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 156283     | 47.441  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 94.880% |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 103651     | 45.551  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 91.100% |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 403840     | 49.450  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 98.900% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 154237     | 47.843  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 95.680% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 16) Acetone                   | 2.398          | 43   | 24505      | 18.031  | ug/l   | 99       |
| 18) Methyl Acetate            | 2.709          | 43   | 5180       | 0.980   | ug/l   | 97       |
| 20) Methylene Chloride        | 2.794          | 84   | 3678       | 1.405   | ug/l # | 86       |
| 25) 2-Butanone                | 4.586          | 43   | 1270       | 0.653   | ug/l   | 98       |
| 29) Tetrahydrofuran           | 5.031          | 42   | 254        | 0.203   | ug/l # | 34       |
| 31) Cyclohexane               | 5.544          | 56   | 5542       | 1.607   | ug/l # | 17       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 19146      | 6.311   | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.721          | 43   | 40774      | 12.067  | ug/l   | 99       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 23748      | 8.032   | ug/l # | 17       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 145596     | 26.206  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.799          | 41   | 136565     | 50.123  | ug/l # | 49       |
| 49) 1,4-Dioxane               | 7.744          | 88   | 20         | 0.321   | ug/l # | 22       |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 109500     | 32.288  | ug/l # | 50       |
| 53) t-1,3-Dichloropropene     | 8.951          | 75   | 826        | 0.250   | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 45880      | 12.550  | ug/l # | 60       |
| 56) Ethyl methacrylate        | 9.250          | 69   | 1184       | 0.332   | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 5919       | 1.442   | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482          | 43   | 89920      | 35.864  | ug/l # | 50       |
| 74) N-amyl acetate            | 10.817         | 43   | 1300       | 0.307   | ug/l # | 47       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 86661      | 28.774  | ug/l # | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 86661      | 96.921  | ug/l # | 3        |

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

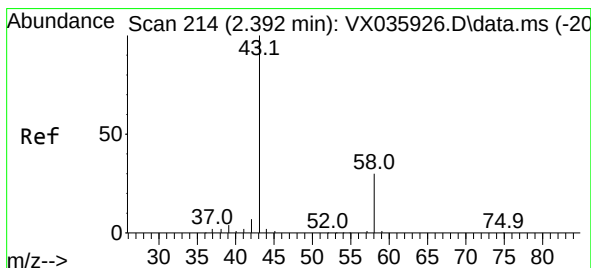
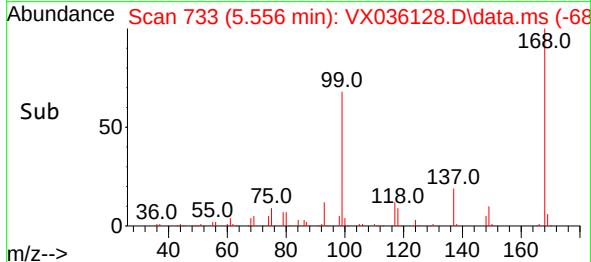
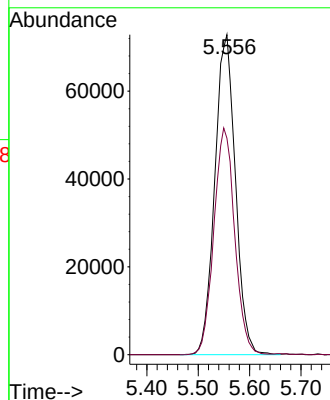
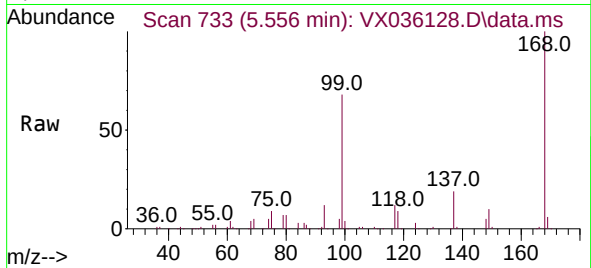




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.007 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

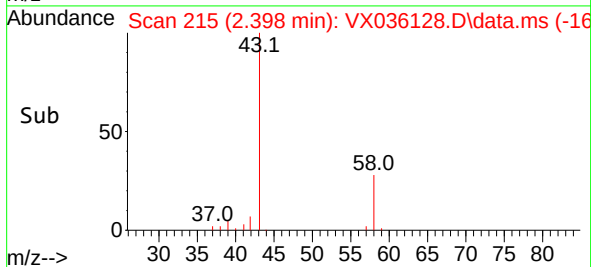
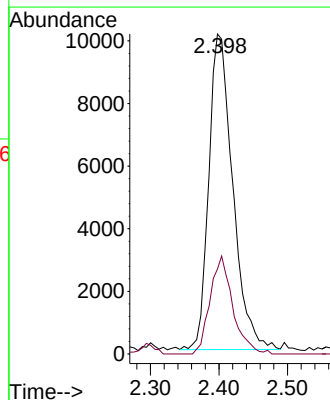
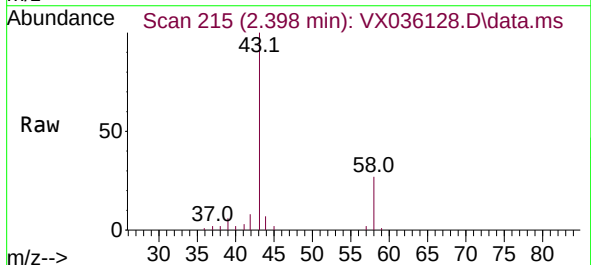
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#08

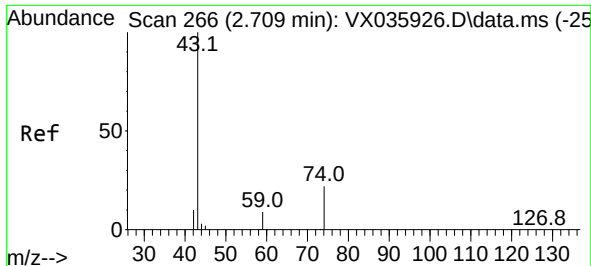
Tgt Ion:168 Resp: 202867  
Ion Ratio Lower Upper  
168 100  
99 67.6 57.0 85.6



#16  
Acetone  
Concen: 18.031 ug/l  
RT: 2.398 min Scan# 215  
Delta R.T. 0.007 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

Tgt Ion: 43 Resp: 24505  
Ion Ratio Lower Upper  
43 100  
58 26.9 22.2 33.2

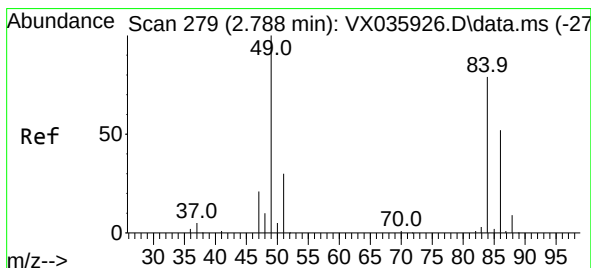
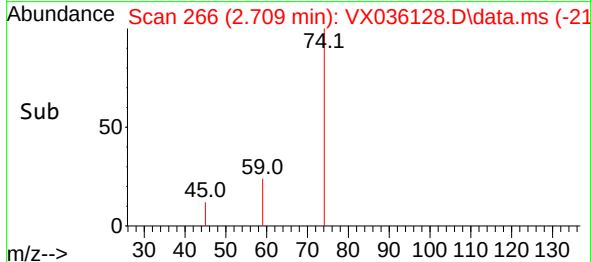
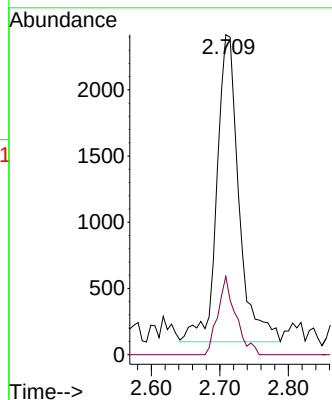
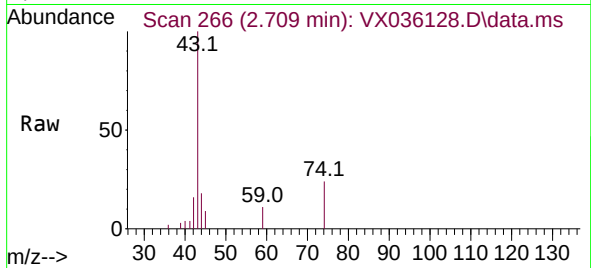




#18  
Methyl Acetate  
Concen: 0.980 ug/l  
RT: 2.709 min Scan# 20  
Delta R.T. 0.007 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

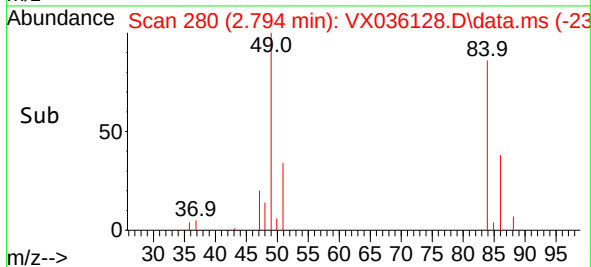
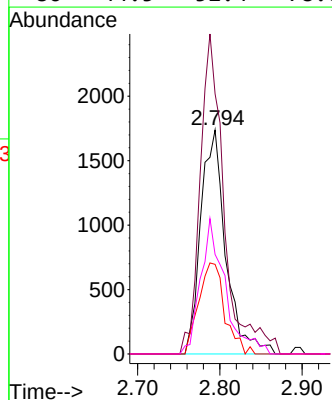
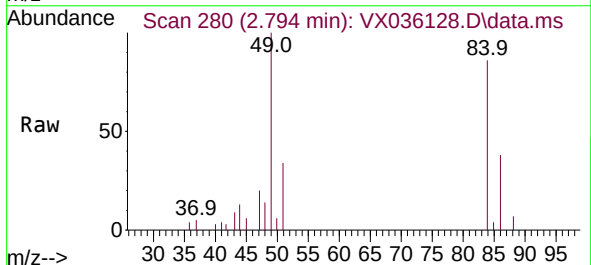
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#08

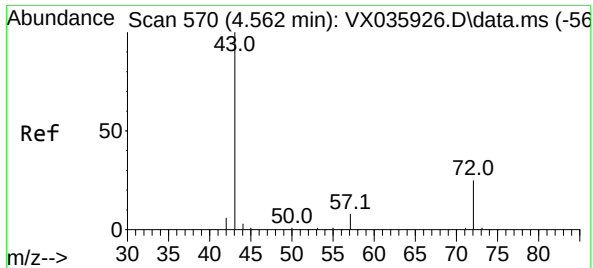
Tgt Ion: 43 Resp: 5180  
Ion Ratio Lower Upper  
43 100  
74 20.6 17.7 26.5



#20  
Methylene Chloride  
Concen: 1.405 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

Tgt Ion: 84 Resp: 3678  
Ion Ratio Lower Upper  
84 100  
49 116.2 104.6 156.8  
51 40.0 32.2 48.4  
86 44.5 52.4 78.6#





#25

2-Butanone

Concen: 0.653 ug/l

RT: 4.586 min Scan# 51

Delta R.T. 0.024 min

Lab File: VX036128.D

Acq: 12 Jun 2023 17:12

Instrument :

MSVOA\_X

ClientSampleId :

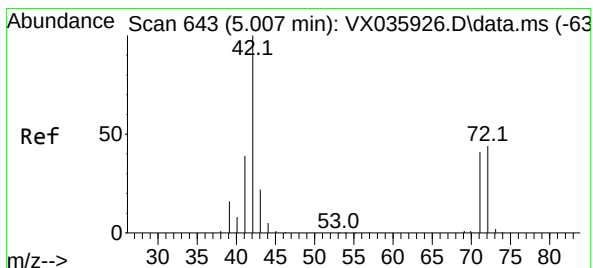
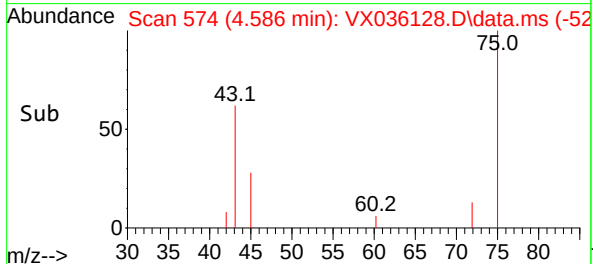
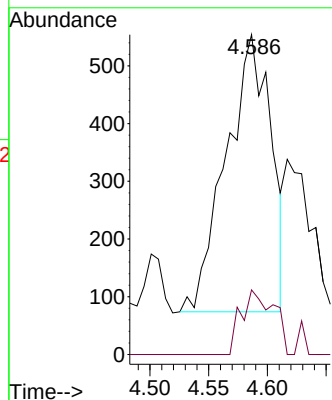
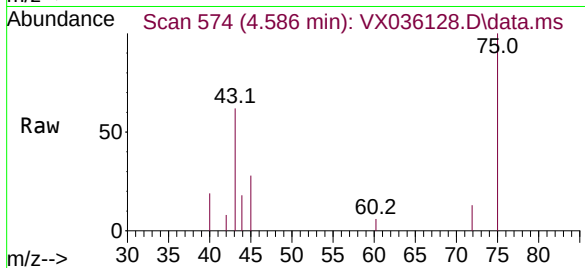
PB153331ZHE#08

Tgt Ion: 43 Resp: 1270

Ion Ratio Lower Upper

43 100

72 23.3 19.4 29.2



#29

Tetrahydrofuran

Concen: 0.203 ug/l

RT: 5.031 min Scan# 647

Delta R.T. 0.018 min

Lab File: VX036128.D

Acq: 12 Jun 2023 17:12

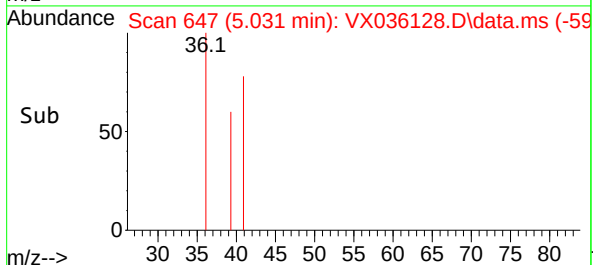
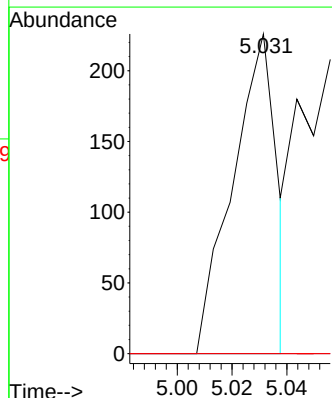
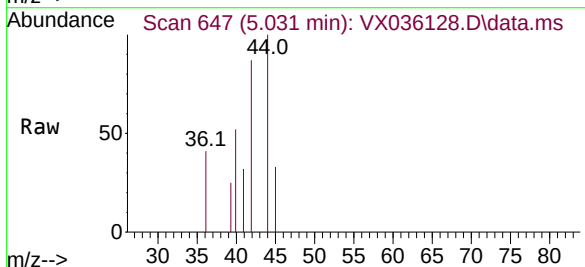
Tgt Ion: 42 Resp: 254

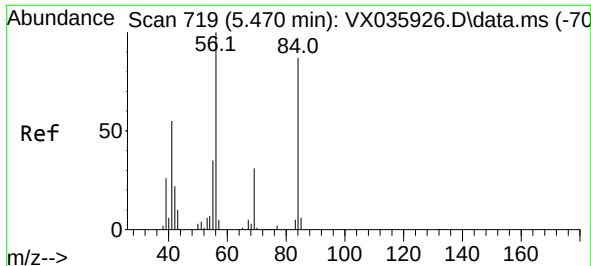
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

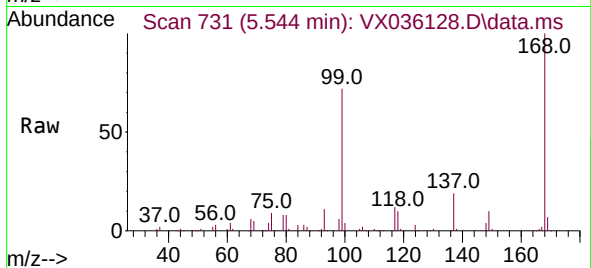
71 0.0 31.8 47.8#





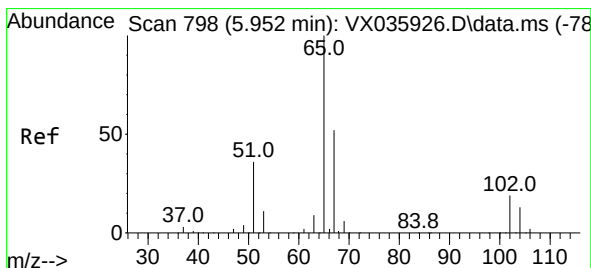
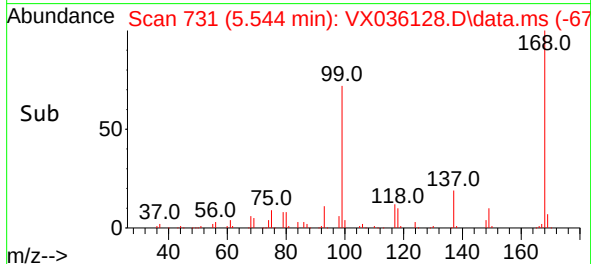
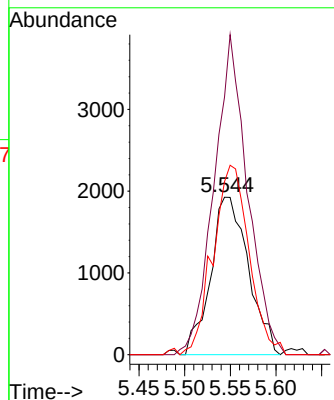
#31  
Cyclohexane  
Concen: 1.607 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.074 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#08



Tgt Ion: 56 Resp: 5542

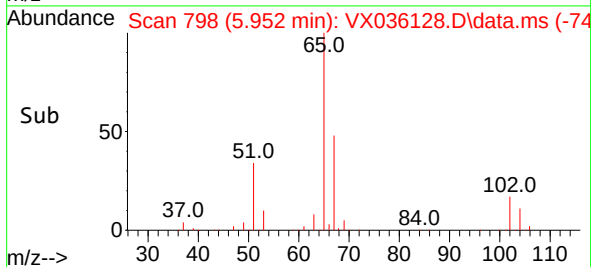
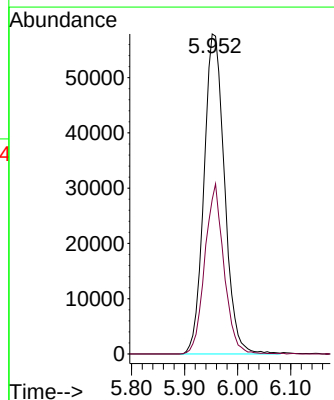
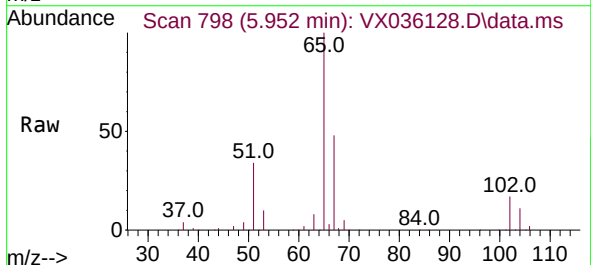
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 160.4 | 25.9  | 38.9#  |
| 84  | 109.9 | 67.6  | 101.4# |

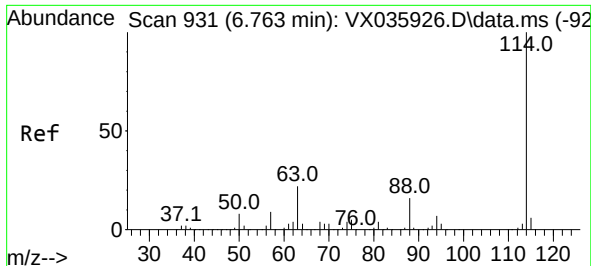


#33  
1,2-Dichloroethane-d4  
Concen: 47.441 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

Tgt Ion: 65 Resp: 156283

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 49.3  | 0.0   | 99.6  |

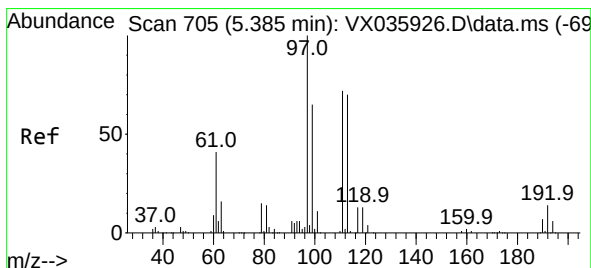
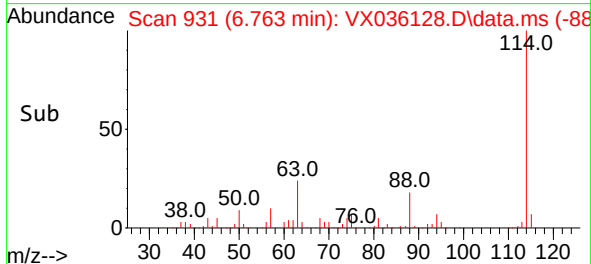
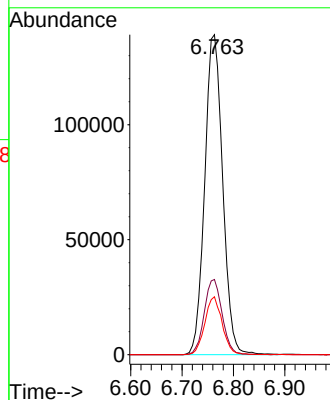
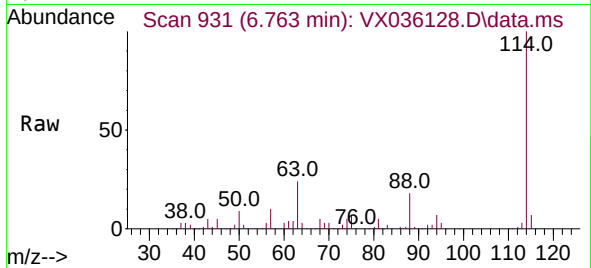




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. -0.000 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

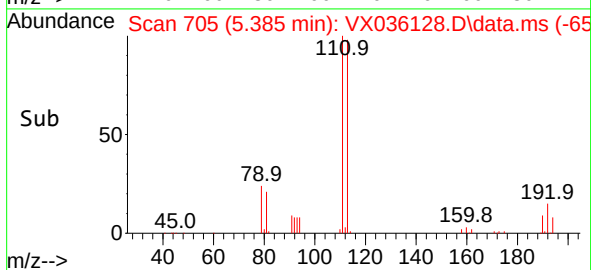
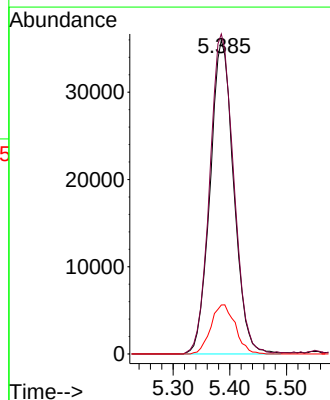
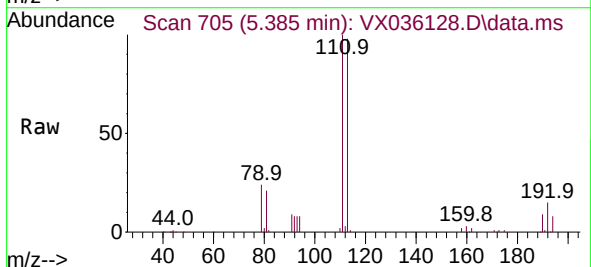
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#08

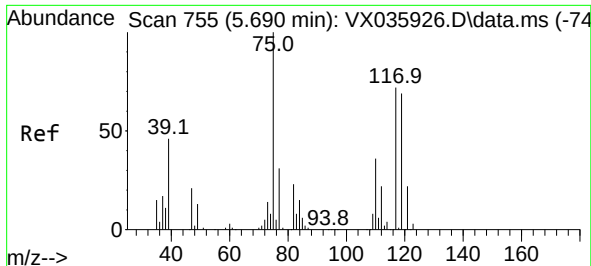
Tgt Ion:114 Resp: 338314  
Ion Ratio Lower Upper  
114 100  
63 23.5 0.0 46.0  
88 18.1 0.0 35.2



#35  
Dibromofluoromethane  
Concen: 45.551 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

Tgt Ion:113 Resp: 103651  
Ion Ratio Lower Upper  
113 100  
111 104.3 81.7 122.5  
192 16.3 13.5 20.3





#36

1,1-Dichloropropene

Concen: 6.311 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX036128.D

Acq: 12 Jun 2023 17:12

Instrument :

MSVOA\_X

ClientSampleId :

PB153331ZHE#08

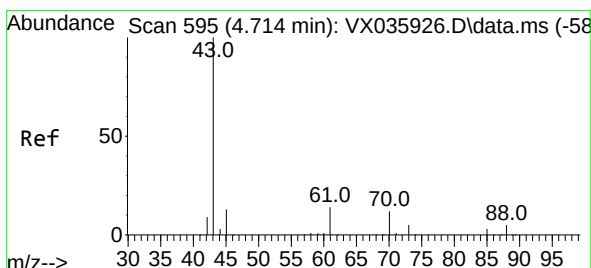
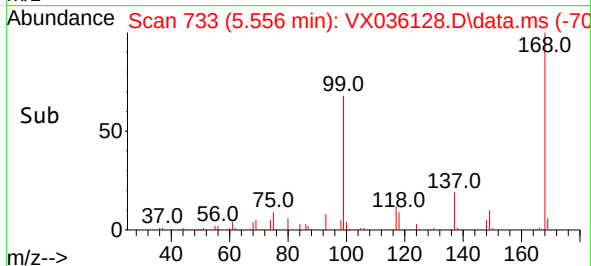
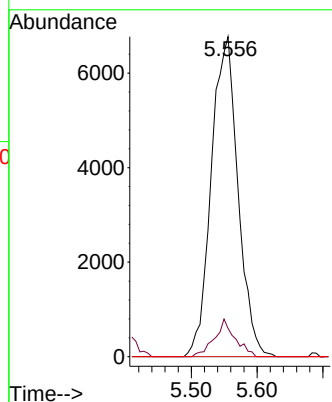
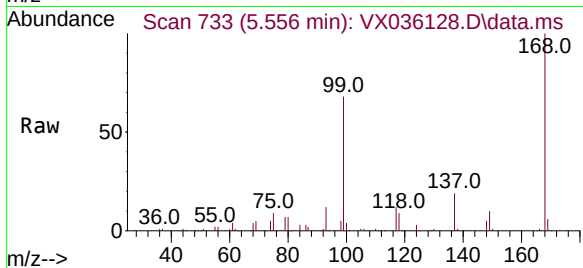
Tgt Ion: 75 Resp: 19146

Ion Ratio Lower Upper

75 100

110 9.1 16.6 49.7#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 12.067 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.013 min

Lab File: VX036128.D

Acq: 12 Jun 2023 17:12

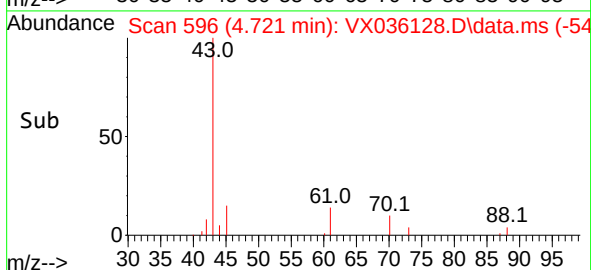
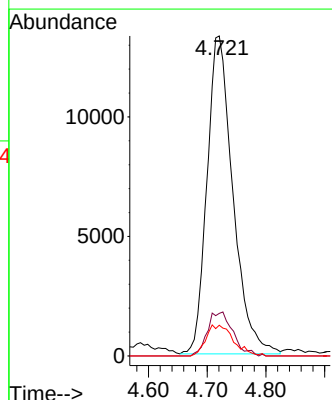
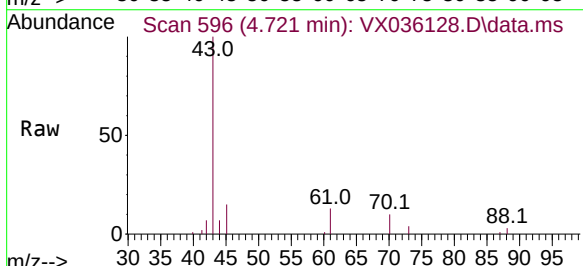
Tgt Ion: 43 Resp: 40774

Ion Ratio Lower Upper

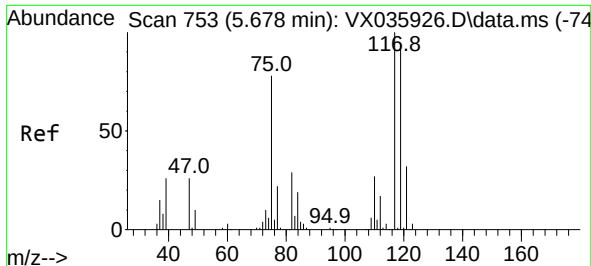
43 100

61 13.6 10.3 15.5

70 10.3 8.3 12.5

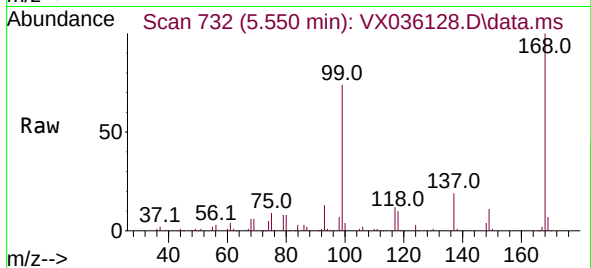




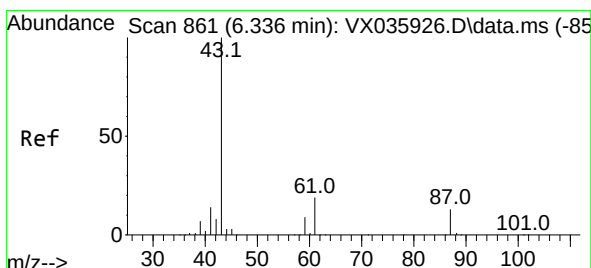
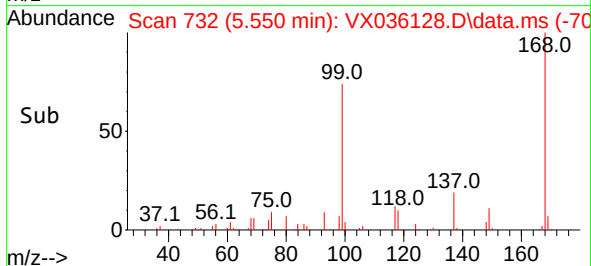
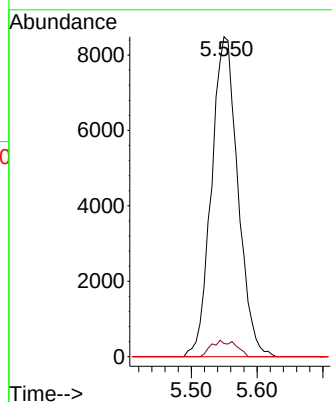


#38  
Carbon Tetrachloride  
Concen: 8.032 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.127 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#08

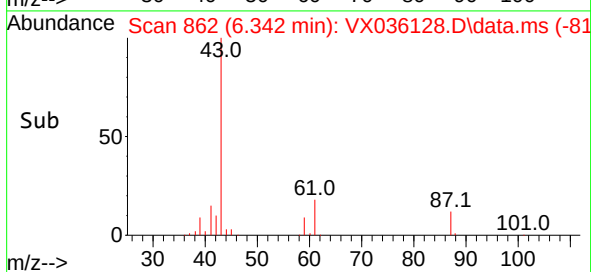
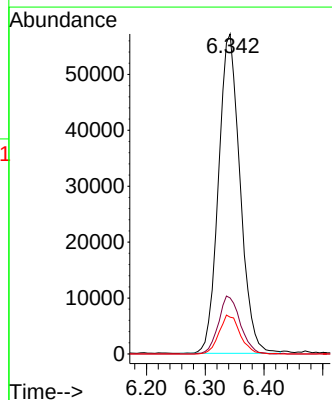
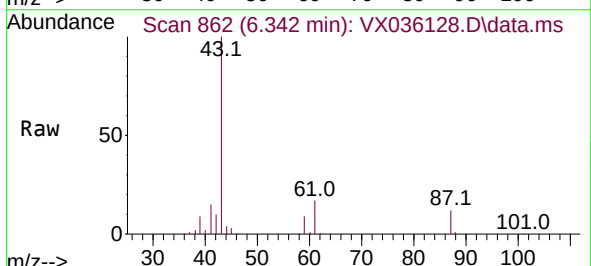


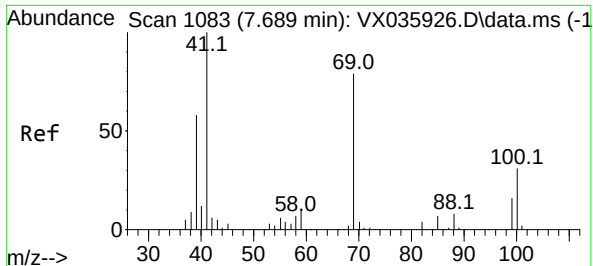
Tgt Ion:117 Resp: 23748  
Ion Ratio Lower Upper  
117 100  
119 4.1 74.1 111.1#  
121 0.0 25.0 37.4#



#43  
Isopropyl Acetate  
Concen: 26.206 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.006 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

Tgt Ion: 43 Resp: 145596  
Ion Ratio Lower Upper  
43 100  
61 18.4 15.0 22.4  
87 11.8 9.9 14.9





#48

Methyl methacrylate

Concen: 50.123 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.110 min

Lab File: VX036128.D

Acq: 12 Jun 2023 17:12

Instrument :

MSVOA\_X

ClientSampleId :

PB153331ZHE#08

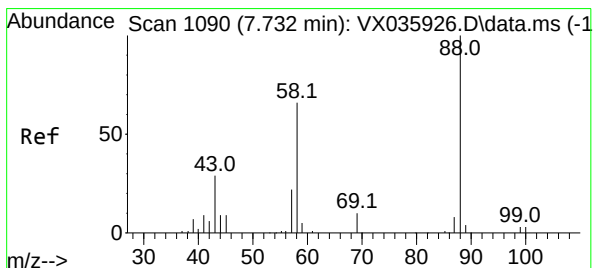
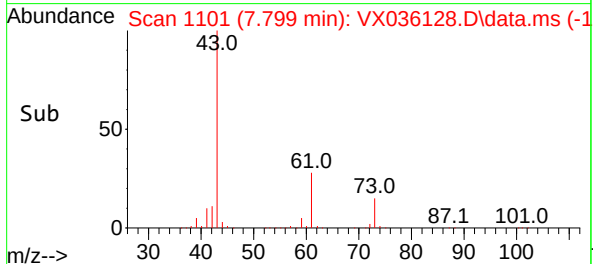
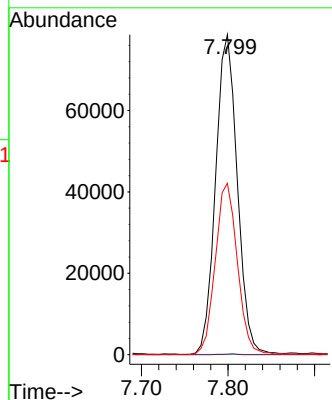
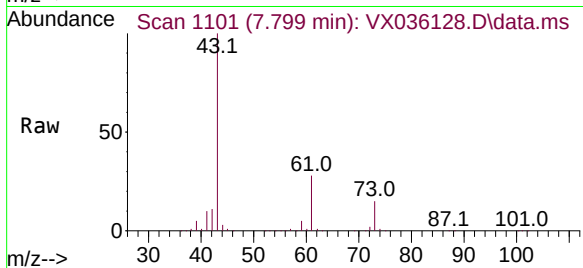
Tgt Ion: 41 Resp: 136565

Ion Ratio Lower Upper

41 100

69 0.2 59.0 88.6#

39 54.8 48.4 72.6



#49

1,4-Dioxane

Concen: 0.321 ug/l

RT: 7.744 min Scan# 1092

Delta R.T. 0.030 min

Lab File: VX036128.D

Acq: 12 Jun 2023 17:12

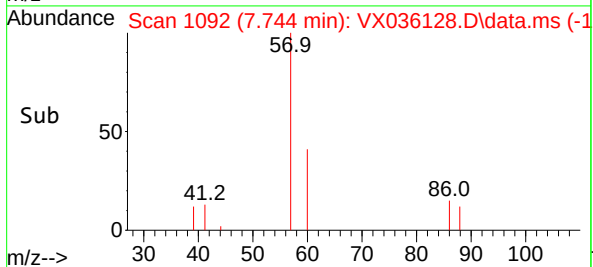
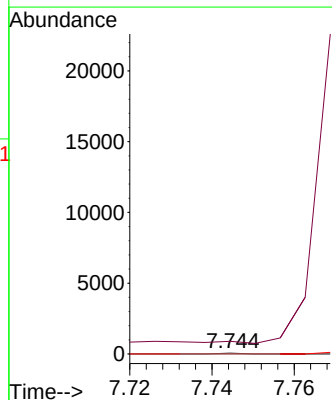
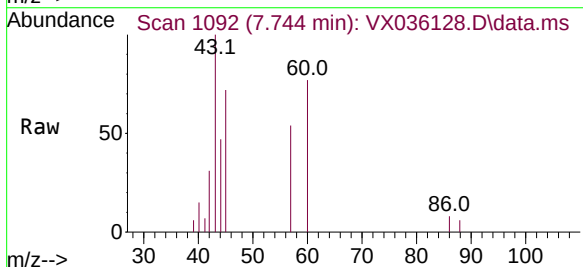
Tgt Ion: 88 Resp: 20

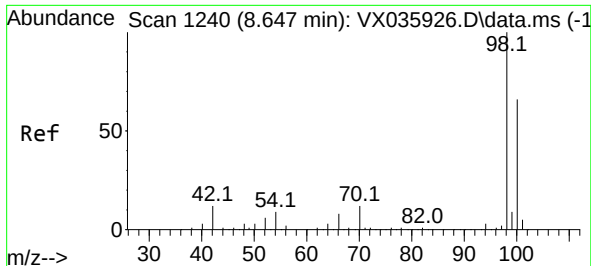
Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

58 0.0 58.9 88.3#

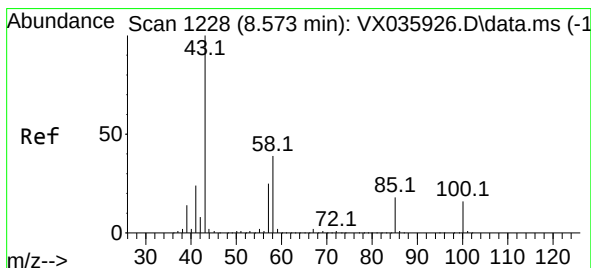
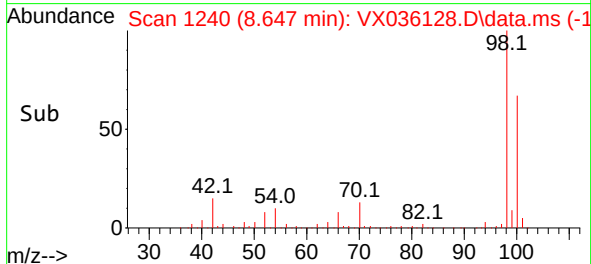
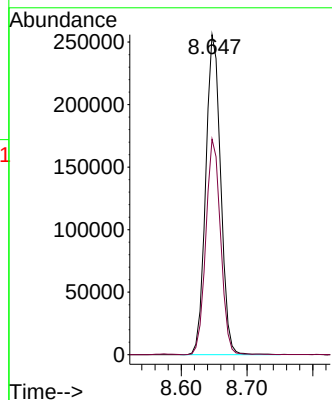
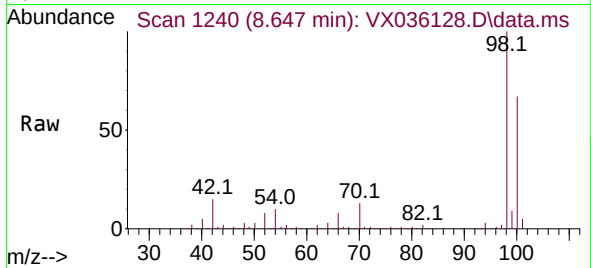




#50  
Toluene-d8  
Concen: 49.450 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.001 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

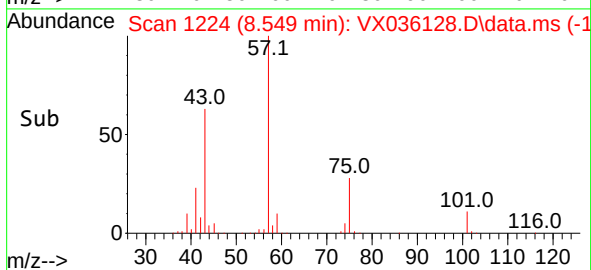
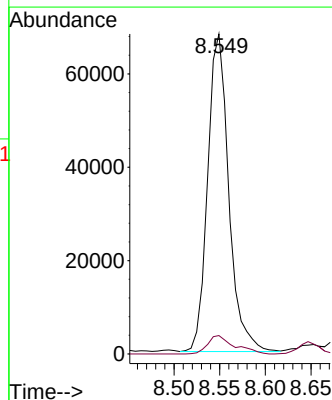
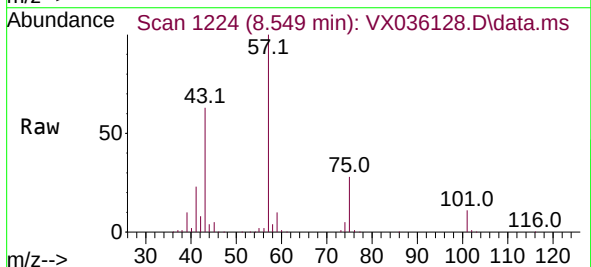
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#08

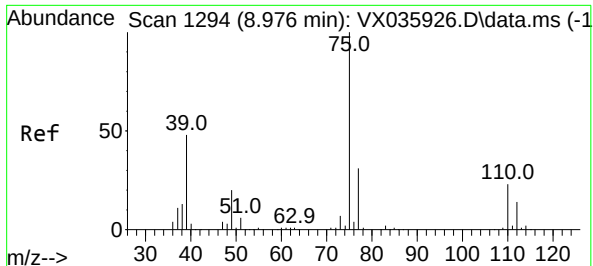
Tgt Ion: 98 Resp: 403840  
Ion Ratio Lower Upper  
98 100  
100 66.5 53.4 80.0



#51  
4-Methyl-2-Pentanone  
Concen: 32.288 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

Tgt Ion: 43 Resp: 109500  
Ion Ratio Lower Upper  
43 100  
58 7.3 30.1 45.1#





#53

t-1,3-Dichloropropene

Concen: 0.250 ug/l

RT: 8.951 min Scan# 11

Delta R.T. -0.025 min

Lab File: VX036128.D

Acq: 12 Jun 2023 17:12

Instrument :

MSVOA\_X

ClientSampleId :

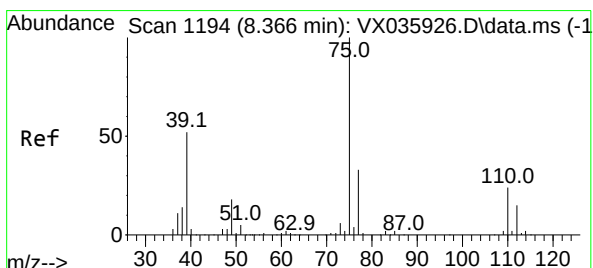
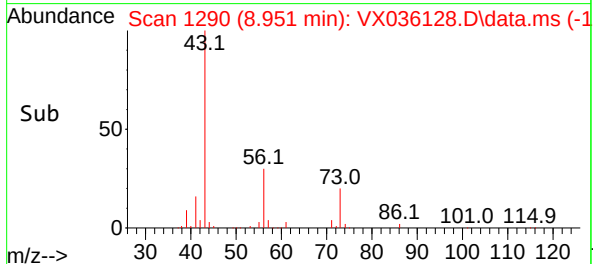
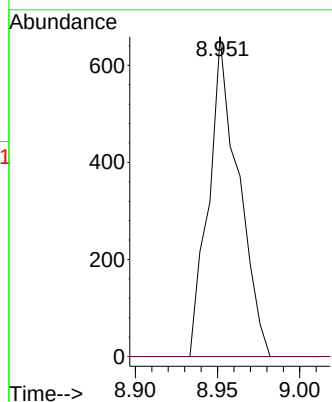
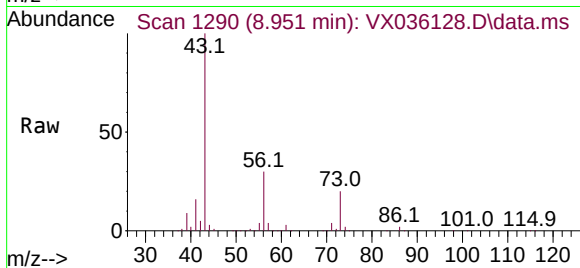
PB153331ZHE#08

Tgt Ion: 75 Resp: 826

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#



#54

cis-1,3-Dichloropropene

Concen: 12.550 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX036128.D

Acq: 12 Jun 2023 17:12

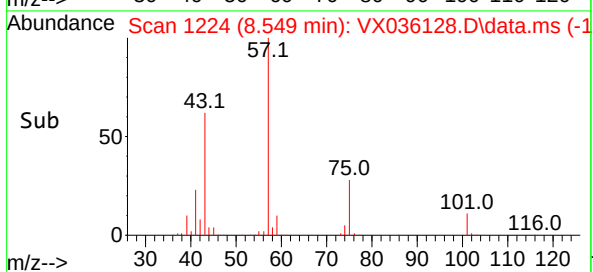
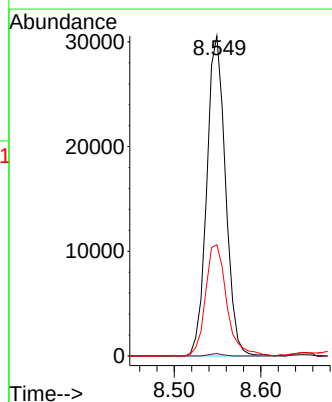
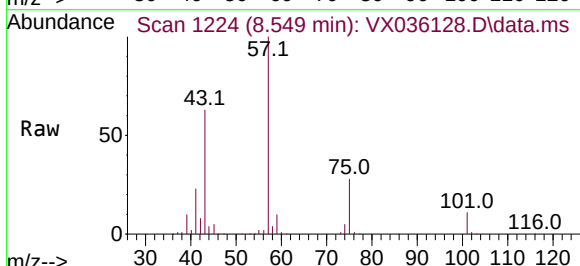
Tgt Ion: 75 Resp: 45880

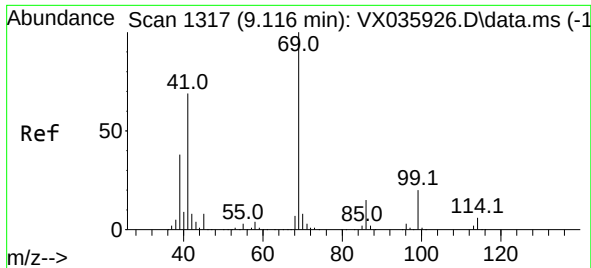
Ion Ratio Lower Upper

75 100

77 0.8 24.7 37.1#

39 34.7 47.0 70.6#

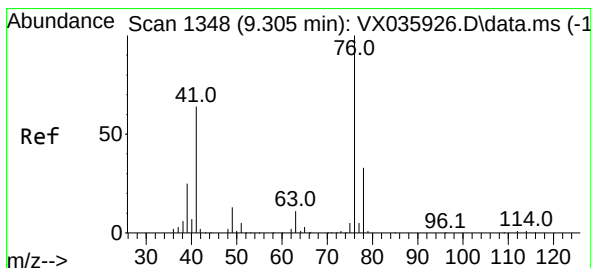
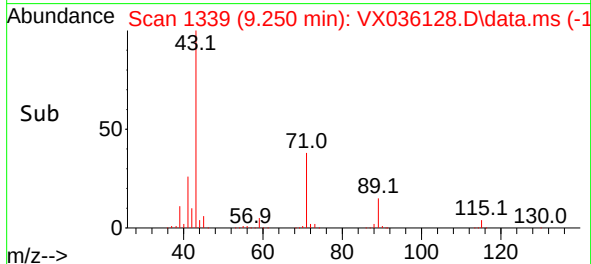
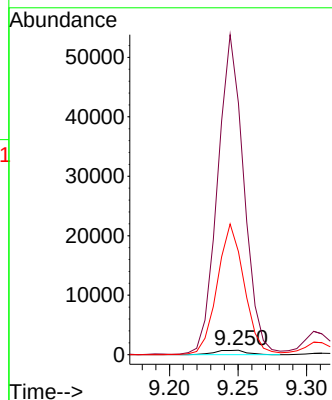
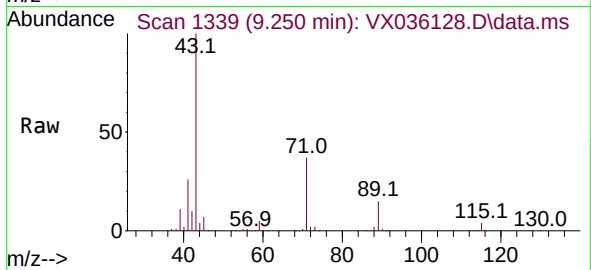




#56  
Ethyl methacrylate  
Concen: 0.332 ug/l  
RT: 9.250 min Scan# 1184  
Delta R.T. 0.134 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

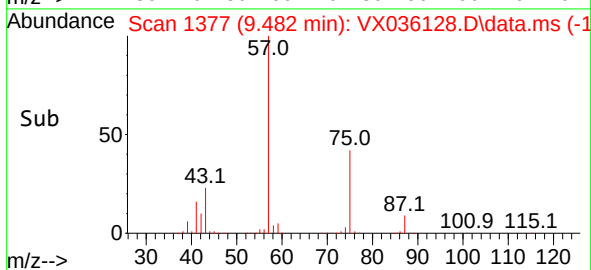
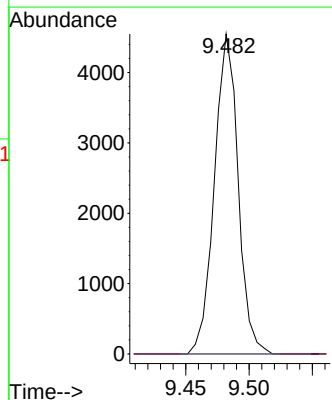
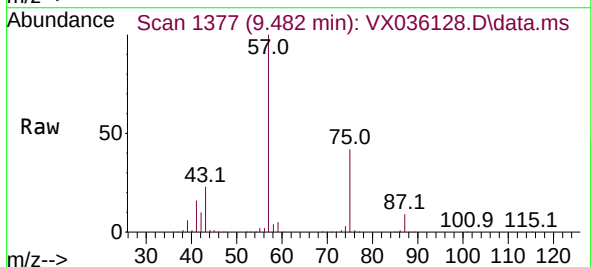
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#08

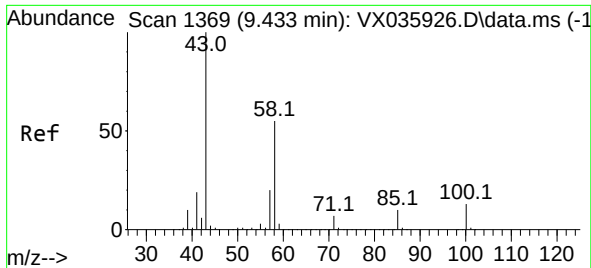
Tgt Ion: 69 Resp: 1184  
Ion Ratio Lower Upper  
69 100  
41 6051.0 58.9 88.3#  
39 2553.0 33.4 50.0#



#57  
1,3-Dichloropropane  
Concen: 1.442 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.171 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

Tgt Ion: 76 Resp: 5919  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.0 39.0#

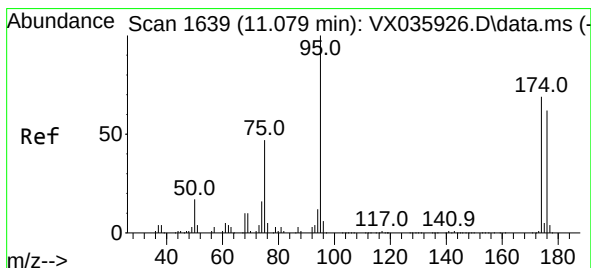
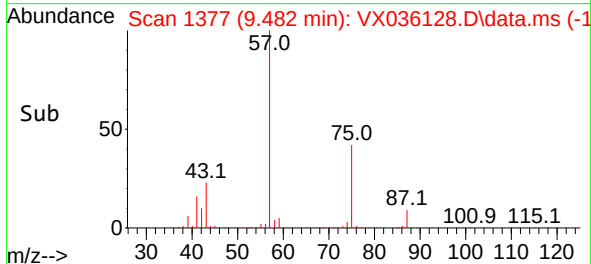
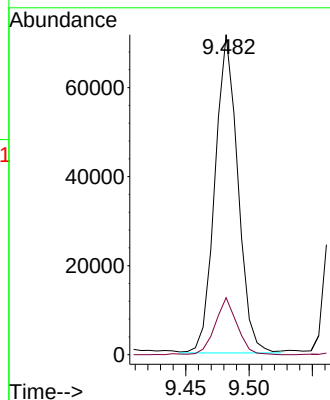
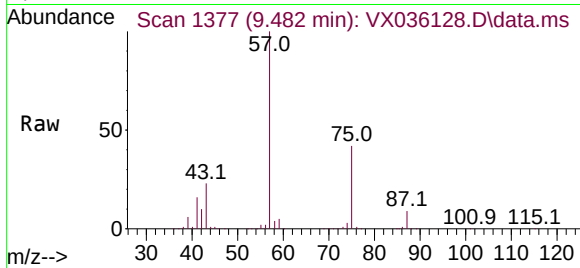




#59  
2-Hexanone  
Concen: 35.864 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.049 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

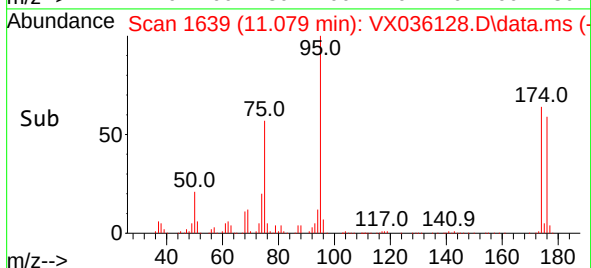
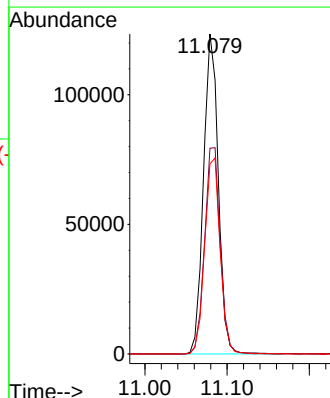
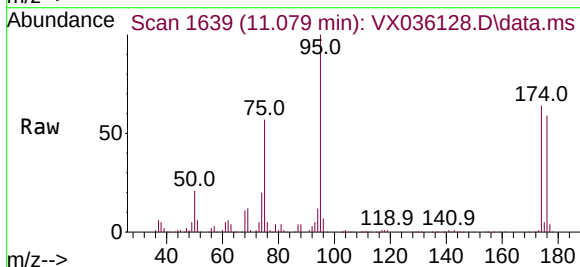
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#08

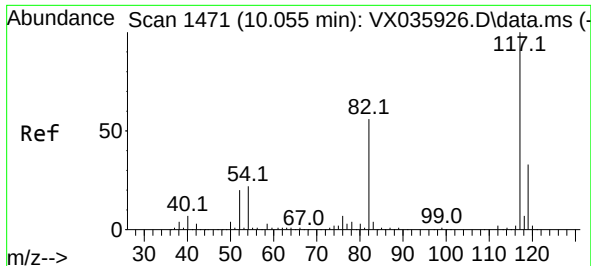
Tgt Ion: 43 Resp: 89920  
Ion Ratio Lower Upper  
43 100  
58 17.3 26.3 78.8#



#62  
4-Bromofluorobenzene  
Concen: 47.843 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

Tgt Ion: 95 Resp: 154237  
Ion Ratio Lower Upper  
95 100  
174 68.2 0.0 132.6  
176 64.1 0.0 128.0

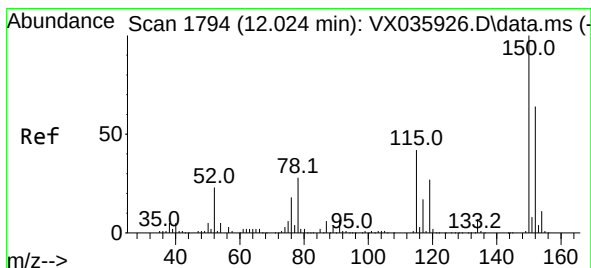
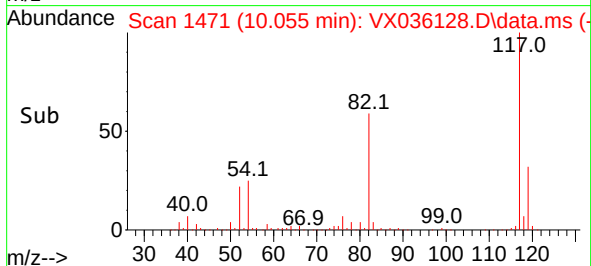
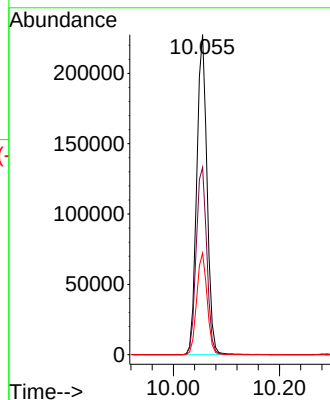
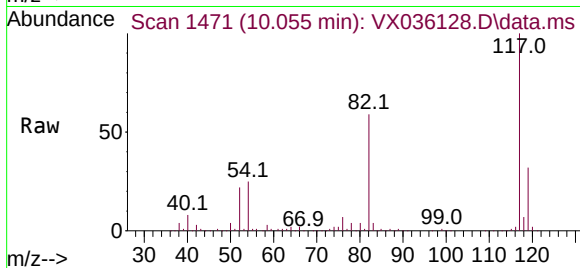




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

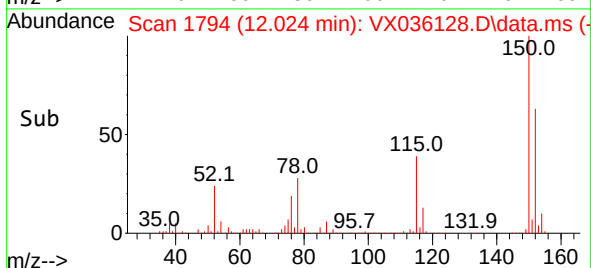
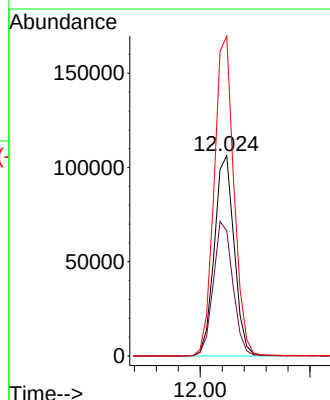
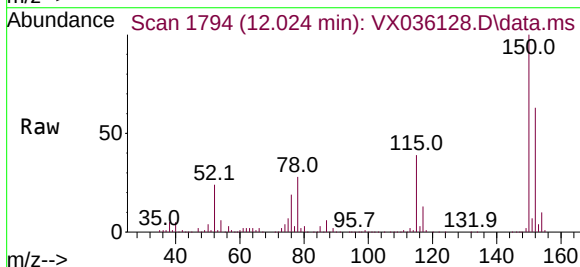
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#08

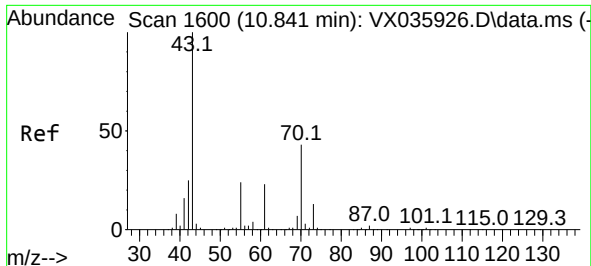
Tgt Ion:117 Resp: 305838  
Ion Ratio Lower Upper  
117 100  
82 58.6 46.6 69.8  
119 31.8 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

Tgt Ion:152 Resp: 133533  
Ion Ratio Lower Upper  
152 100  
115 66.1 45.5 136.5  
150 159.9 0.0 345.2

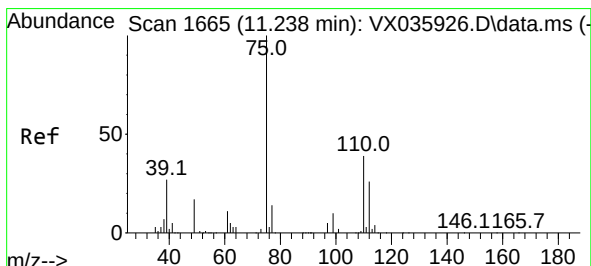
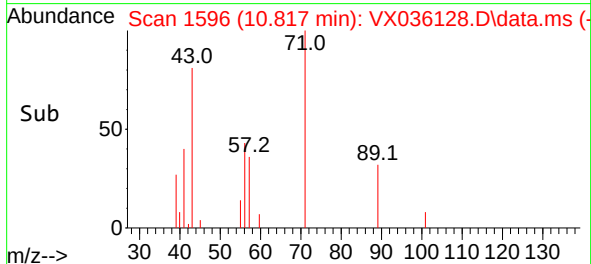
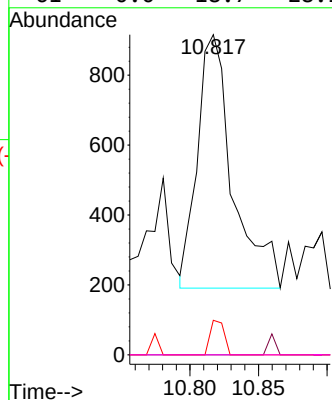
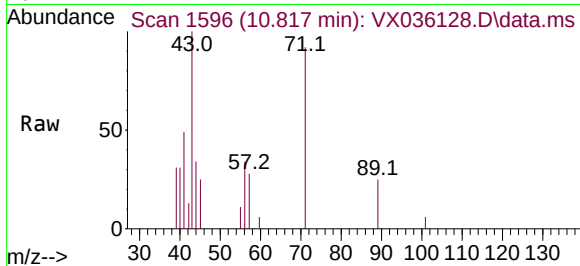




#74  
N-amy1 acetate  
Concen: 0.307 ug/l  
RT: 10.817 min Scan# 1639  
Delta R.T. -0.024 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

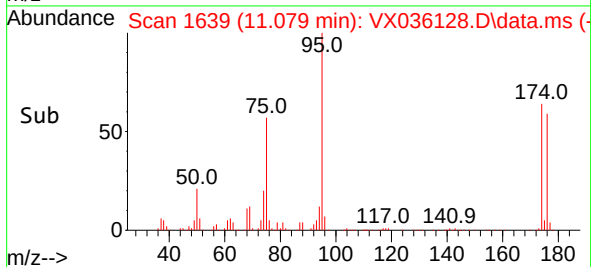
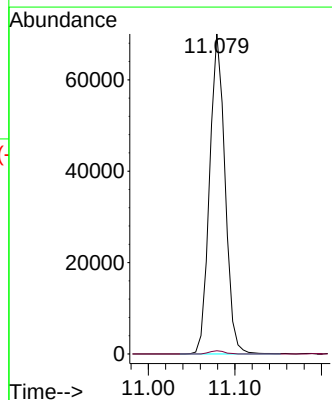
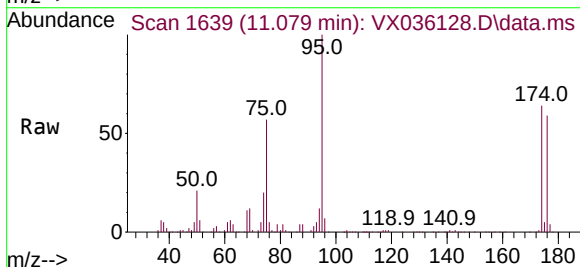
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153331ZHE#08

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 1300  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 32.6 48.8#  |
| 55 5.3      | 19.0 28.4#  |
| 61 0.0      | 18.7 28.1#  |

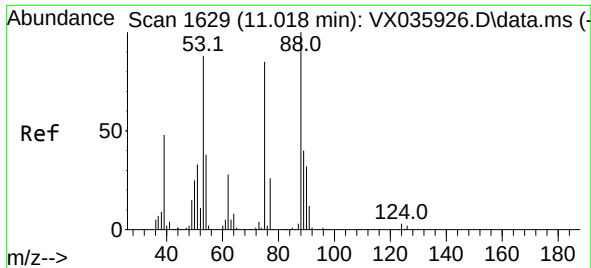


#76  
1,2,3-Trichloropropane  
Concen: 28.774 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX036128.D  
Acq: 12 Jun 2023 17:12

|             |             |
|-------------|-------------|
| Tgt Ion: 75 | Resp: 86661 |
| Ion Ratio   | Lower Upper |
| 75 100      |             |
| 77 1.0      | 21.4 64.2#  |







#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 96.921 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX036128.D  
 Acq: 12 Jun 2023 17:12

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB153331ZHE#08

Tgt Ion: 75 Resp: 86661  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 95.2 142.8#  
 89 0.0 38.0 57.0#

