

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX012725\  
 Data File : VX044727.D  
 Acq On : 27 Jan 2025 16:28  
 Operator : JC/MD  
 Sample : Q1169-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 REGULATOR-BUILDING-GRAVEL

Quant Time: Jan 28 04:15:01 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011525W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 16 01:16:09 2025  
 Response via : Initial Calibration

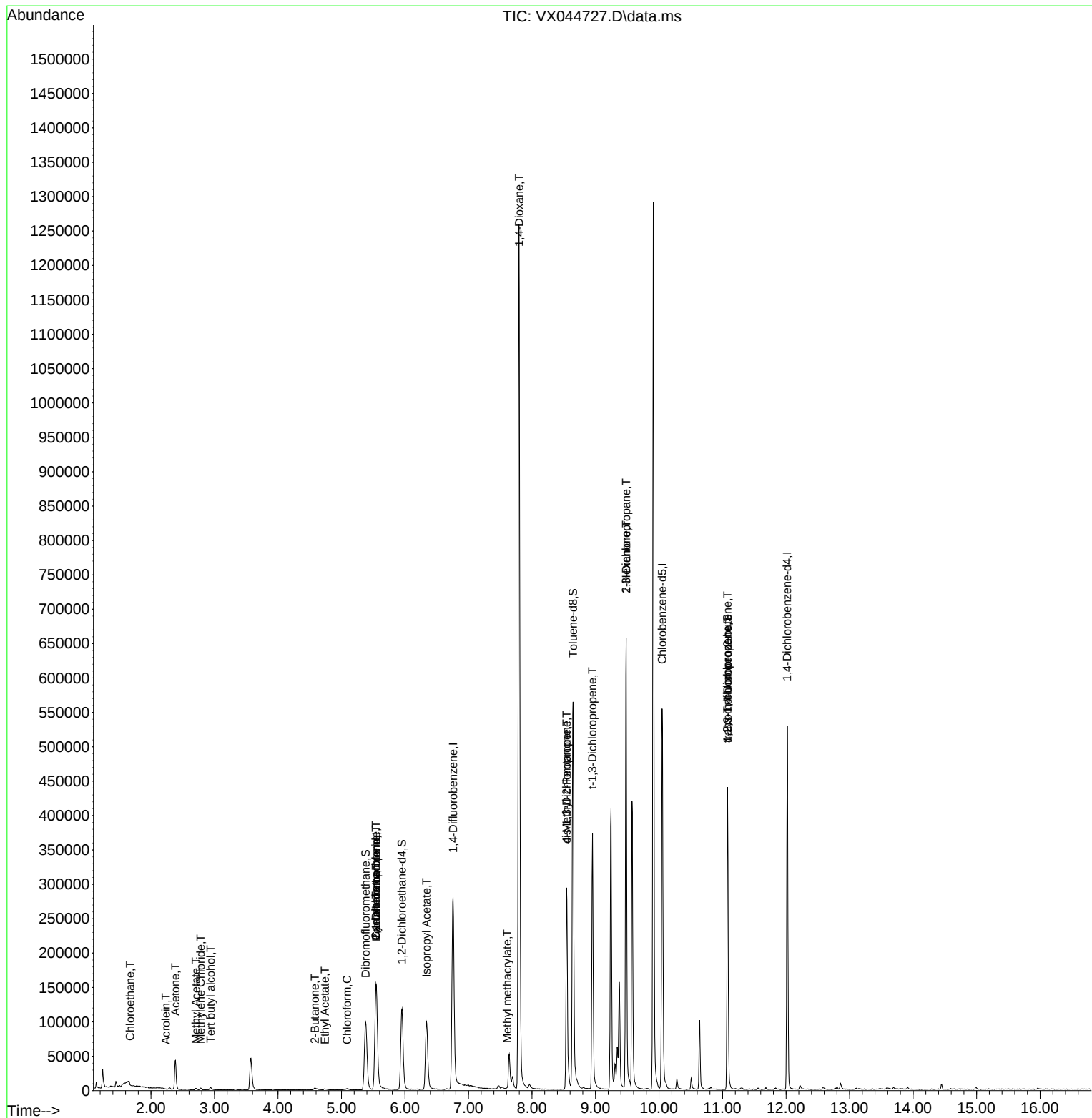
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 148587   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 298945   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.049 | 117   | 254468   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 109772   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 111164   | 49.565   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 99.120%  |
| 35) Dibromofluoromethane      | 5.379  | 113   | 87866    | 46.266   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 92.540%  |
| 50) Toluene-d8                | 8.647  | 98    | 360726   | 54.474   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 108.940% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 124947   | 50.615   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 101.220% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 6) Chloroethane               | 1.672  | 64    | 275      | 0.702    | ug/l # | 41       |
| 11) Tert butyl alcohol        | 2.940  | 59    | 2026     | 4.052    | ug/l # | 85       |
| 13) Acrolein                  | 2.233  | 56    | 287      | 1.220    | ug/l # | 80       |
| 16) Acetone                   | 2.385  | 43    | 48841    | 55.042   | ug/l   | 93       |
| 18) Methyl Acetate            | 2.709  | 43    | 2803     | 1.024    | ug/l   | 95       |
| 20) Methylene Chloride        | 2.782  | 84    | 1295     | 0.627    | ug/l   | 89       |
| 25) 2-Butanone                | 4.580  | 43    | 4918     | 3.728    | ug/l # | 84       |
| 30) Chloroform                | 5.086  | 83    | 2627     | 0.745    | ug/l   | 97       |
| 31) Cyclohexane               | 5.543  | 56    | 3446     | 1.220    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.543  | 75    | 12667    | 4.791    | ug/l # | 49       |
| 37) Ethyl Acetate             | 4.739  | 43    | 2198     | 0.781    | ug/l # | 86       |
| 38) Carbon Tetrachloride      | 5.543  | 117   | 15127    | 5.087    | ug/l # | 17       |
| 43) Isopropyl Acetate         | 6.336  | 43    | 143791   | 27.764   | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.610  | 41    | 3465     | 1.441    | ug/l # | 13       |
| 49) 1,4-Dioxane               | 7.799  | 88    | 221      | 4.406    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.543  | 43    | 109044   | 38.099   | ug/l # | 50       |
| 53) t-1,3-Dichloropropene     | 8.951  | 75    | 900      | 0.271    | ug/l # | 44       |
| 54) cis-1,3-Dichloropropene   | 8.543  | 75    | 52756    | 14.628   | ug/l # | 56       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 5917     | 1.713    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482  | 43    | 80799    | 38.372   | ug/l # | 50       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 61453    | 23.068   | ug/l # | 32       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 61453    | 52.753   | ug/l # | 12       |

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

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QLast Update : Thu Jan 16 01:16:09 2025  
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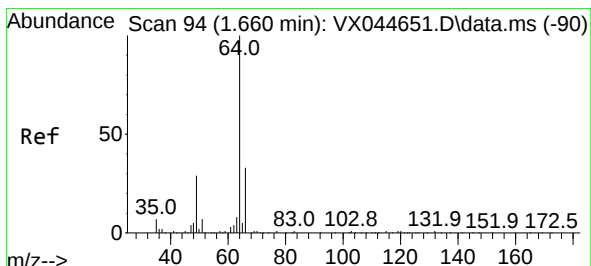
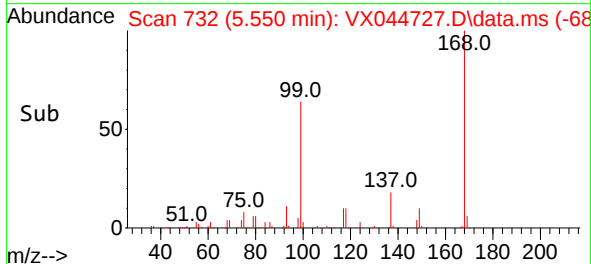
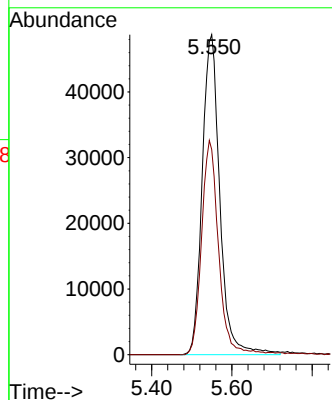
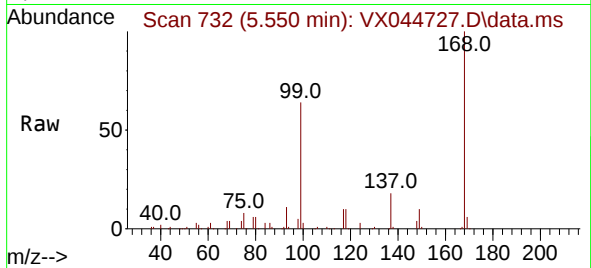




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

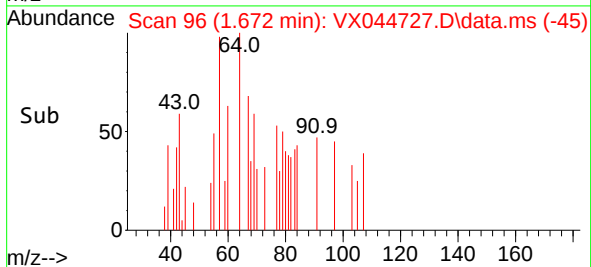
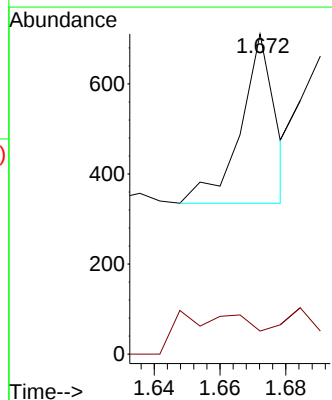
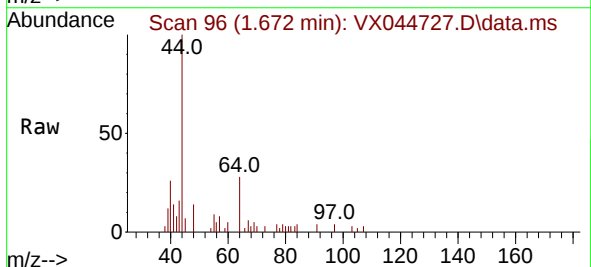
Instrument :  
MSVOA\_X  
ClientSampleId :  
REGULATOR-BUILDING-GRAVEL

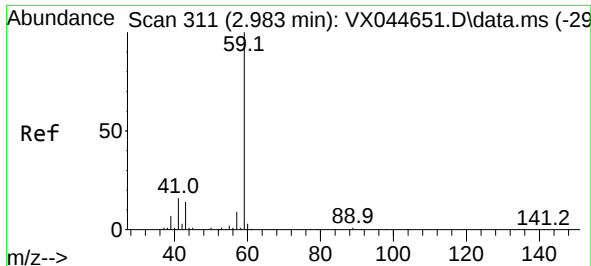
Tgt Ion:168 Resp: 148587  
Ion Ratio Lower Upper  
168 100  
99 64.1 51.1 76.7



#6  
Chloroethane  
Concen: 0.702 ug/l  
RT: 1.672 min Scan# 96  
Delta R.T. 0.012 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

Tgt Ion: 64 Resp: 275  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.6 39.8#

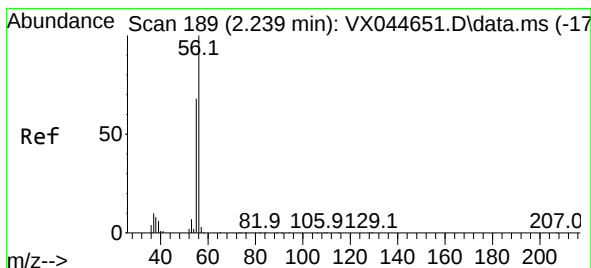
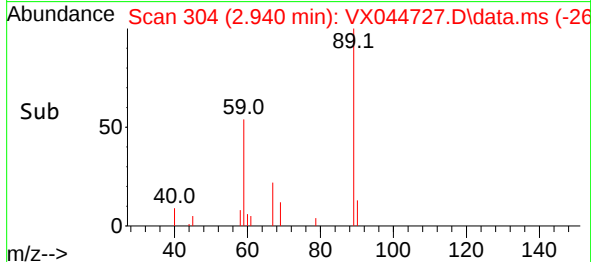
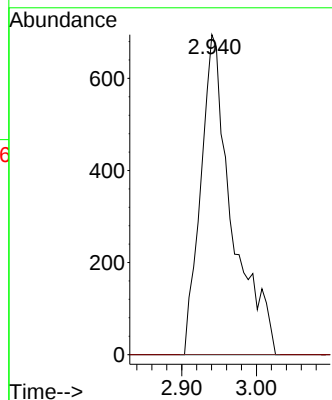
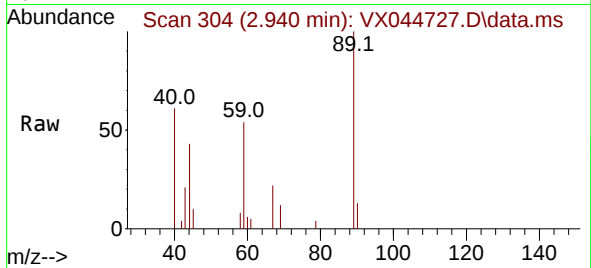




#11  
Tert butyl alcohol  
Concen: 4.052 ug/l  
RT: 2.940 min Scan# 304  
Delta R.T. -0.043 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

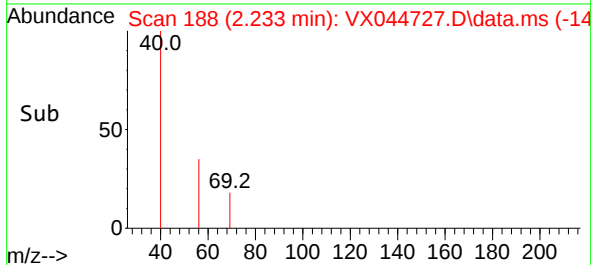
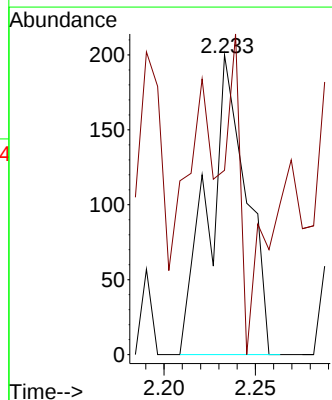
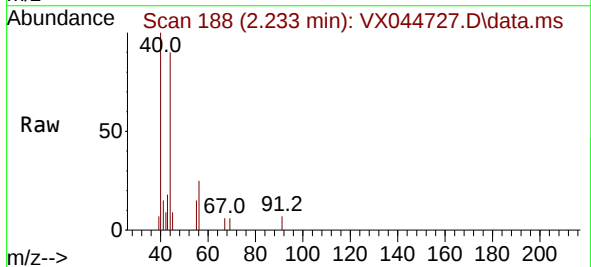
Instrument : MSVOA\_X  
ClientSampleId : REGULATOR-BUILDING-GRAVEL

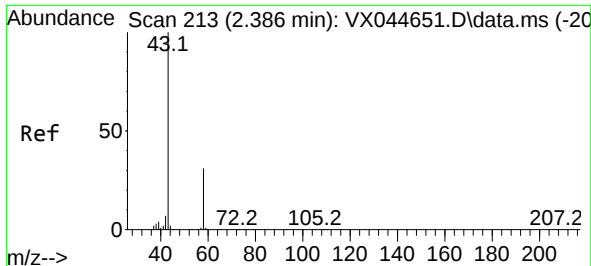
Tgt Ion: 59 Resp: 2026  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.9 5.9#



#13  
Acrolein  
Concen: 1.220 ug/l  
RT: 2.233 min Scan# 188  
Delta R.T. -0.006 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

Tgt Ion: 56 Resp: 287  
Ion Ratio Lower Upper  
56 100  
55 85.0 55.1 82.7#

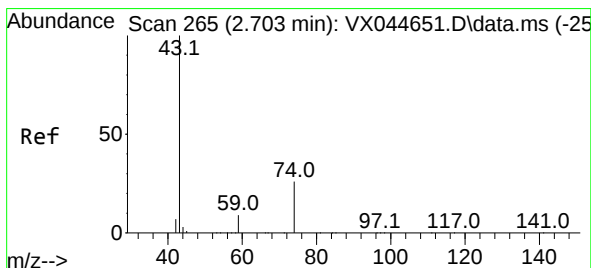
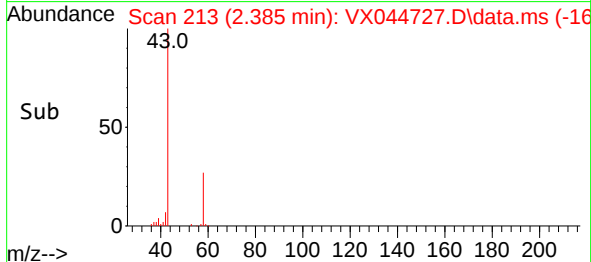
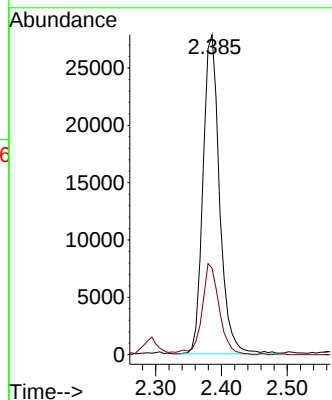
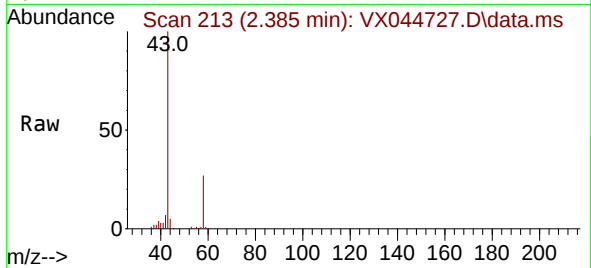




#16  
Acetone  
Concen: 55.042 ug/l  
RT: 2.385 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

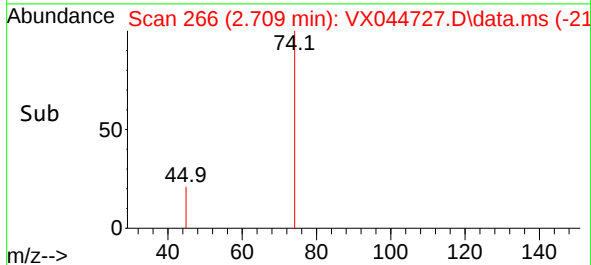
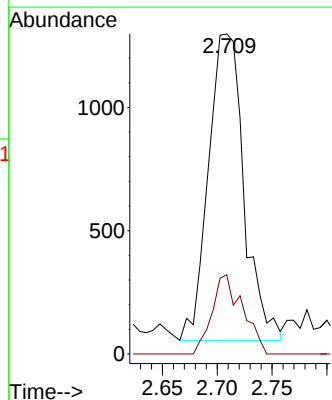
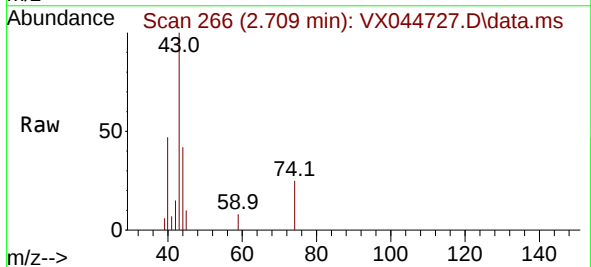
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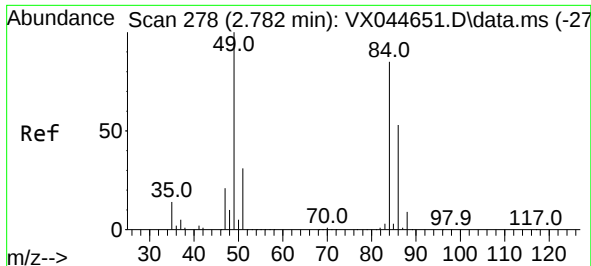
Tgt Ion: 43 Resp: 48841  
Ion Ratio Lower Upper  
43 100  
58 26.8 24.6 37.0



#18  
Methyl Acetate  
Concen: 1.024 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.006 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

Tgt Ion: 43 Resp: 2803  
Ion Ratio Lower Upper  
43 100  
74 22.3 19.8 29.8





#20

Methylene Chloride

Concen: 0.627 ug/l

RT: 2.782 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX044727.D

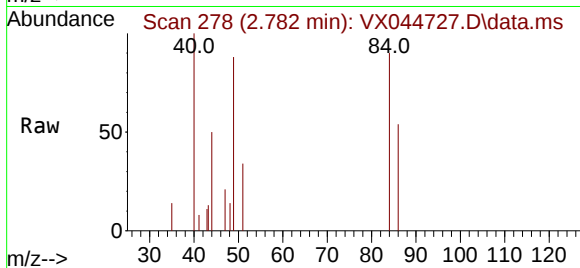
Acq: 27 Jan 2025 16:28

Instrument :

MSVOA\_X

ClientSampleId :

REGULATOR-BUILDING-GRAVEL



Tgt Ion: 84 Resp: 1295

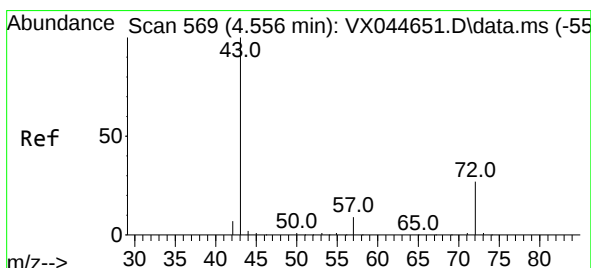
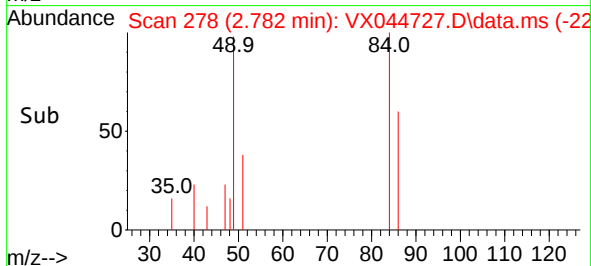
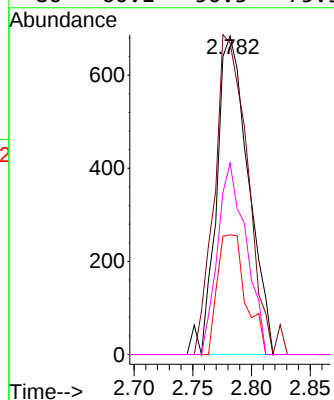
Ion Ratio Lower Upper

84 100

49 97.8 94.2 141.4

51 37.6 28.8 43.2

86 60.1 50.3 75.5



#25

2-Butanone

Concen: 3.728 ug/l

RT: 4.580 min Scan# 573

Delta R.T. 0.024 min

Lab File: VX044727.D

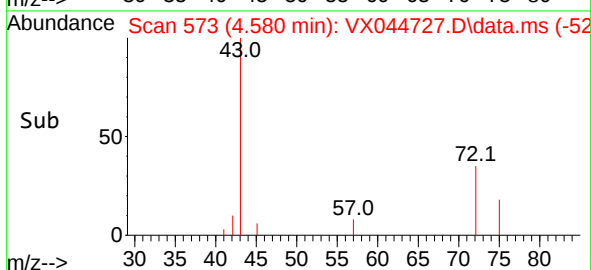
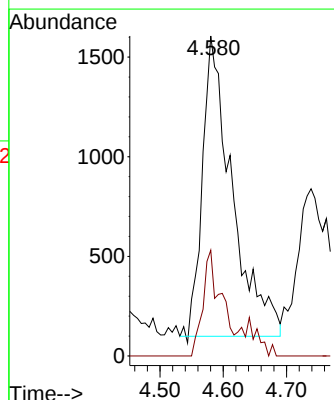
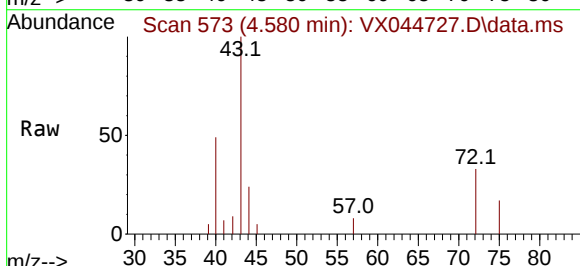
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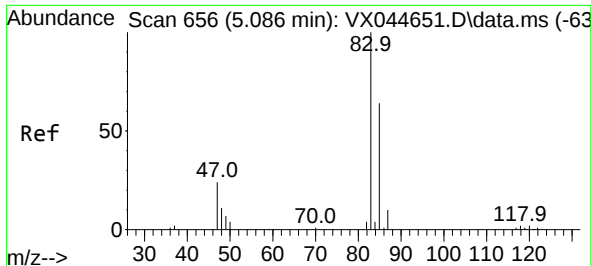
Tgt Ion: 43 Resp: 4918

Ion Ratio Lower Upper

43 100

72 35.2 21.7 32.5#

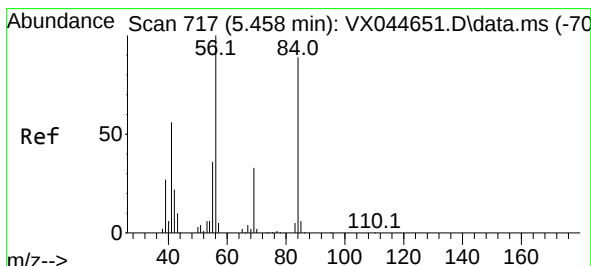
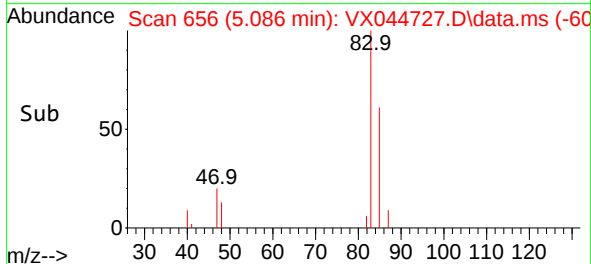
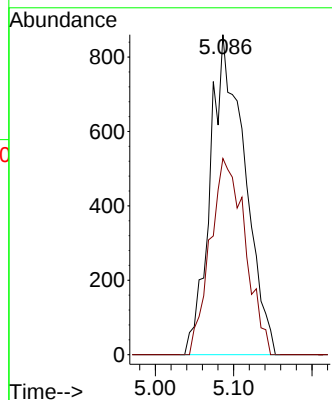
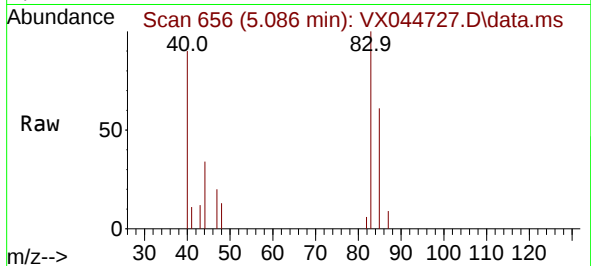




#30  
Chloroform  
Concen: 0.745 ug/l  
RT: 5.086 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

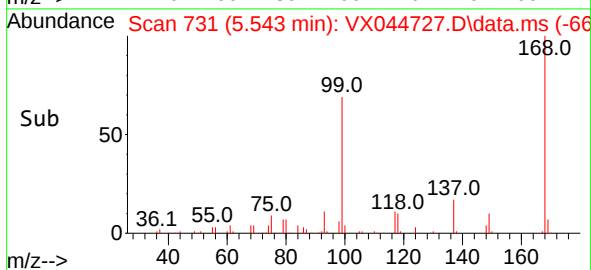
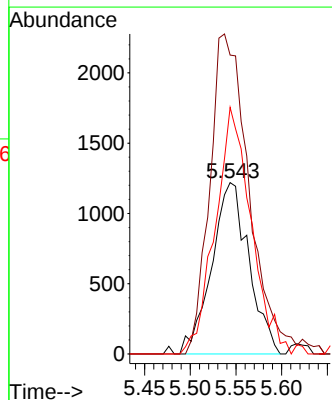
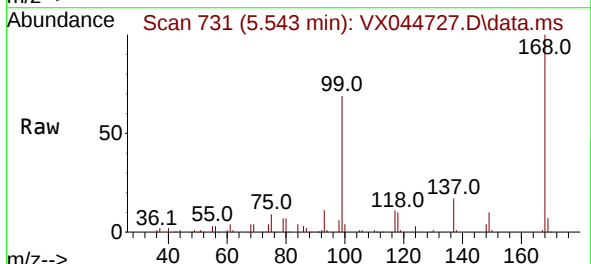
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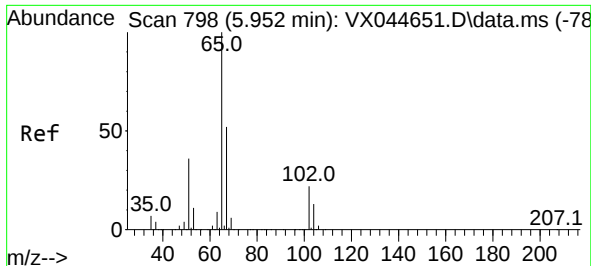
Tgt Ion: 83 Resp: 2627  
Ion Ratio Lower Upper  
83 100  
85 61.3 51.2 76.8



#31  
Cyclohexane  
Concen: 1.220 ug/l  
RT: 5.543 min Scan# 731  
Delta R.T. 0.085 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

Tgt Ion: 56 Resp: 3446  
Ion Ratio Lower Upper  
56 100  
69 174.5 26.8 40.2#  
84 143.9 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 49.565 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX044727.D

Acq: 27 Jan 2025 16:28

Instrument :

MSVOA\_X

ClientSampleId :

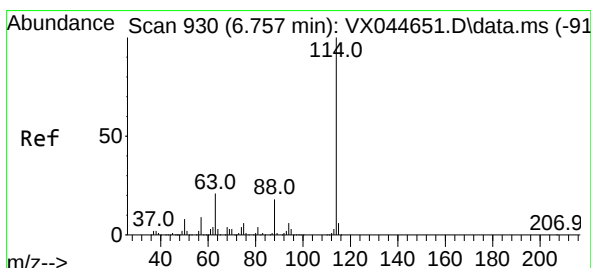
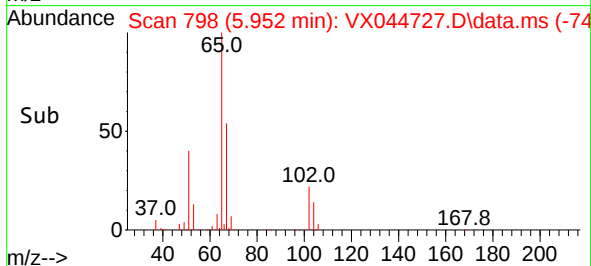
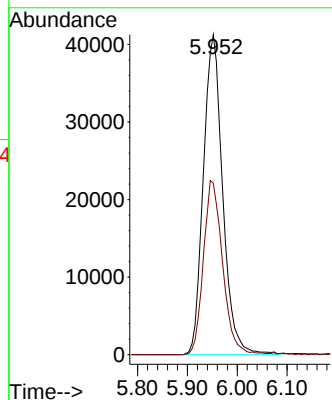
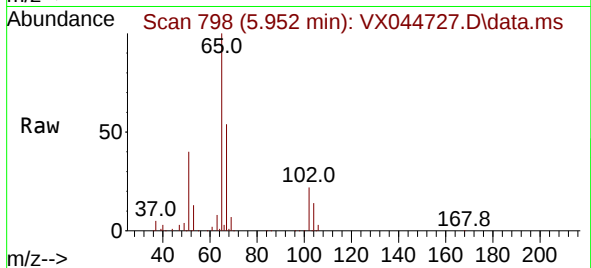
REGULATOR-BUILDING-GRAVEL

Tgt Ion: 65 Resp: 111164

Ion Ratio Lower Upper

65 100

67 54.1 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX044727.D

Acq: 27 Jan 2025 16:28

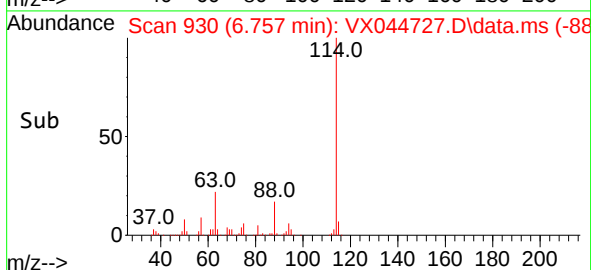
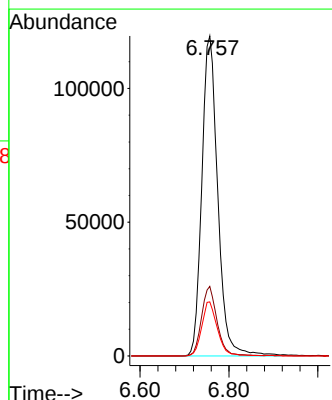
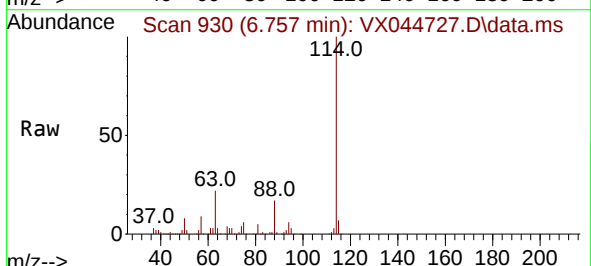
Tgt Ion: 114 Resp: 298945

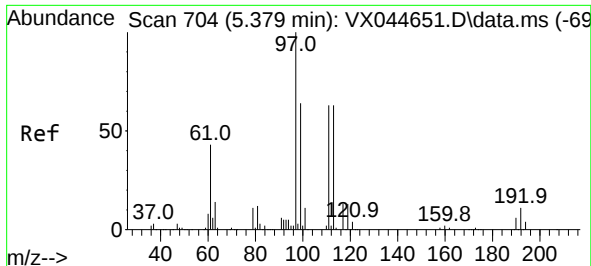
Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.0

88 16.9 0.0 35.4

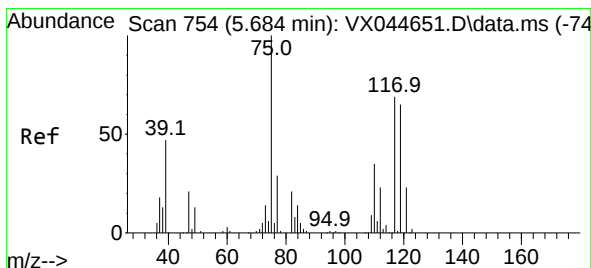
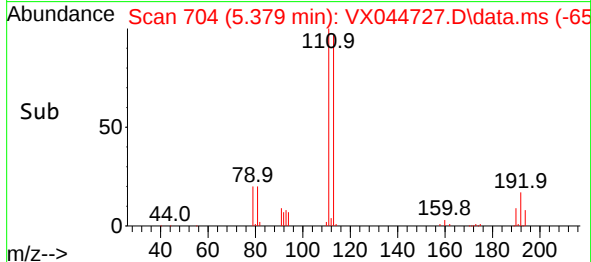
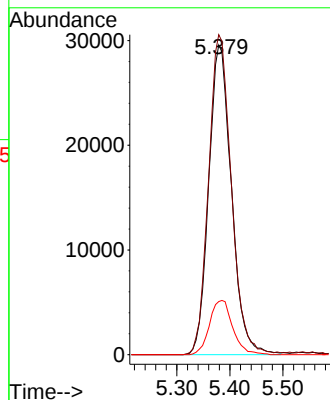
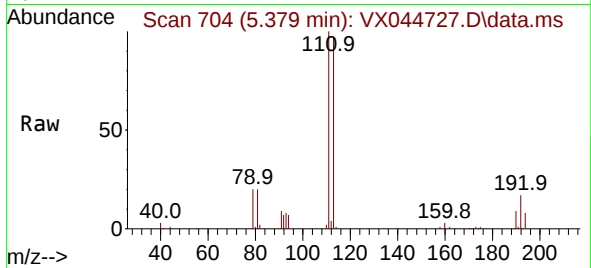




#35  
Dibromofluoromethane  
Concen: 46.266 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.000 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

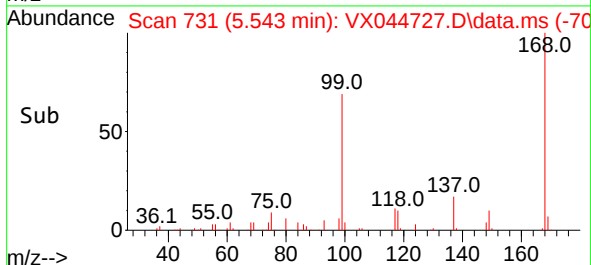
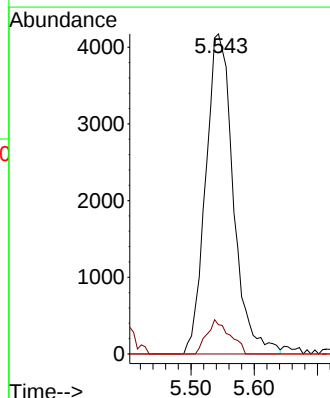
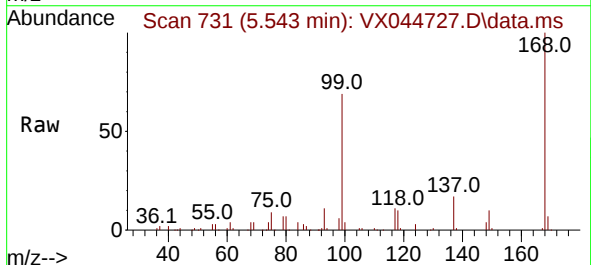
Instrument :  
MSVOA\_X  
ClientSampleId :  
REGULATOR-BUILDING-GRAVEL

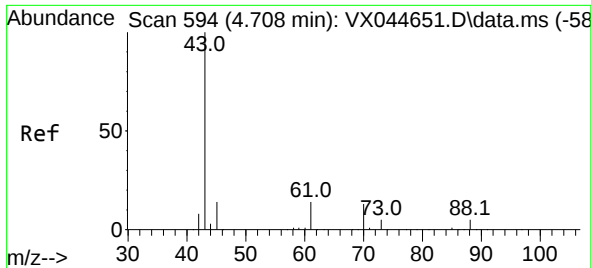
Tgt Ion:113 Resp: 87866  
Ion Ratio Lower Upper  
113 100  
111 103.6 81.6 122.4  
192 17.9 14.4 21.6



#36  
1,1-Dichloropropene  
Concen: 4.791 ug/l  
RT: 5.543 min Scan# 731  
Delta R.T. -0.140 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

Tgt Ion: 75 Resp: 12667  
Ion Ratio Lower Upper  
75 100  
110 8.8 17.9 53.8#  
77 0.0 24.5 36.7#

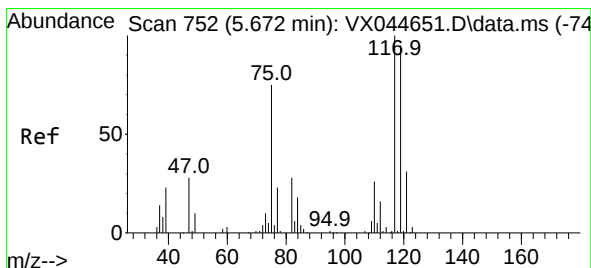
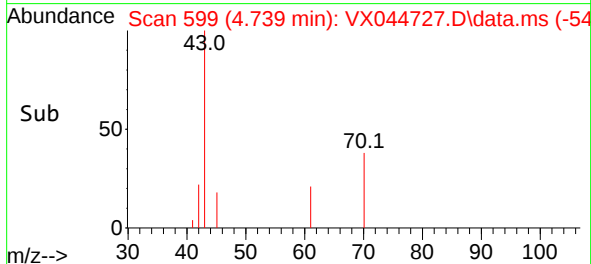
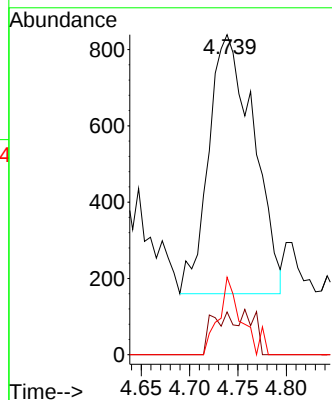
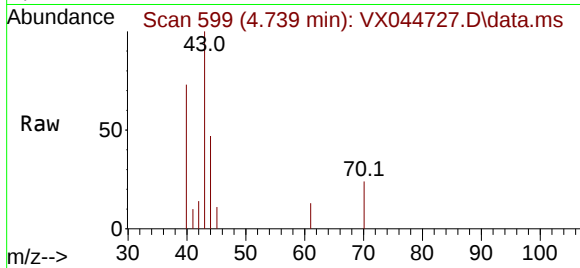




#37  
Ethyl Acetate  
Concen: 0.781 ug/l  
RT: 4.739 min Scan# 511  
Delta R.T. 0.030 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

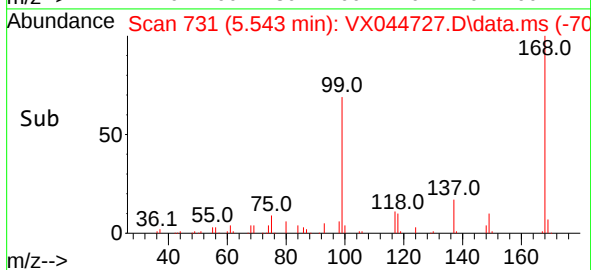
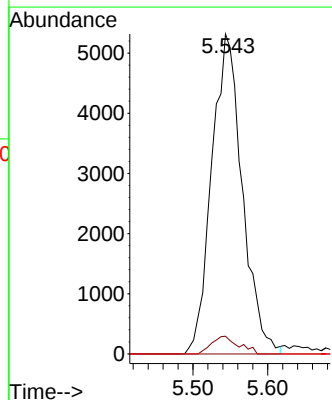
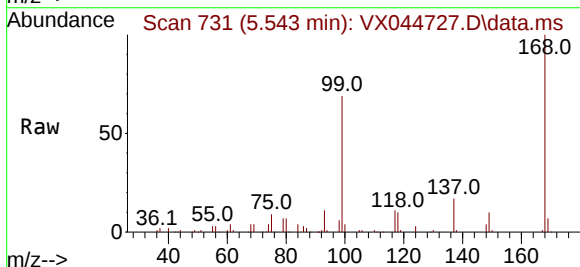
Instrument :  
MSVOA\_X  
ClientSampleId :  
REGULATOR-BUILDING-GRAVEL

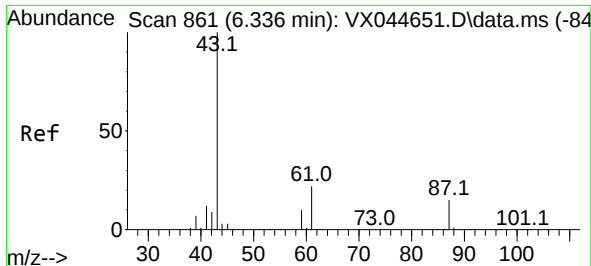
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 43 | Resp: | 2198        |
| Ion         | Ratio | Lower Upper |
| 43          | 100   |             |
| 61          | 5.1   | 10.9 16.3#  |
| 70          | 15.2  | 10.1 15.1#  |



#38  
Carbon Tetrachloride  
Concen: 5.087 ug/l  
RT: 5.543 min Scan# 731  
Delta R.T. -0.128 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

|              |       |             |
|--------------|-------|-------------|
| Tgt Ion: 117 | Resp: | 15127       |
| Ion          | Ratio | Lower Upper |
| 117          | 100   |             |
| 119          | 5.6   | 76.0 114.0# |
| 121          | 0.0   | 24.6 36.8#  |

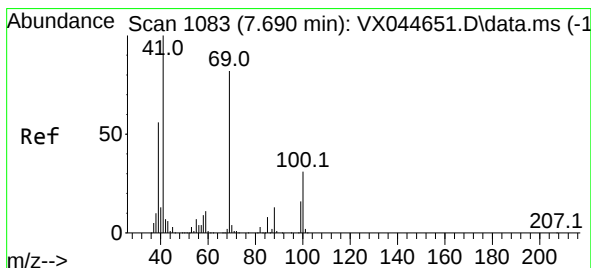
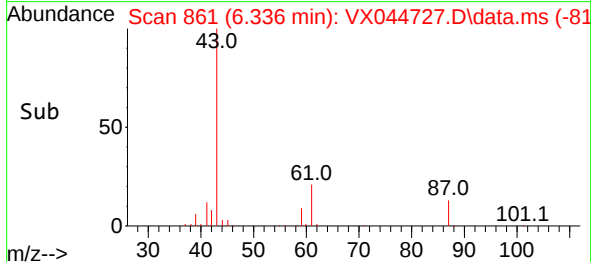
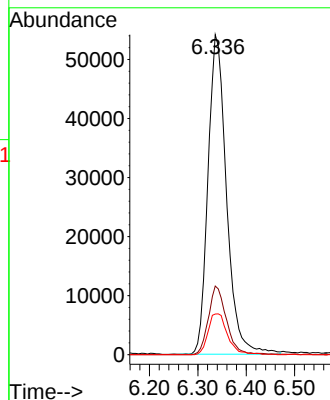
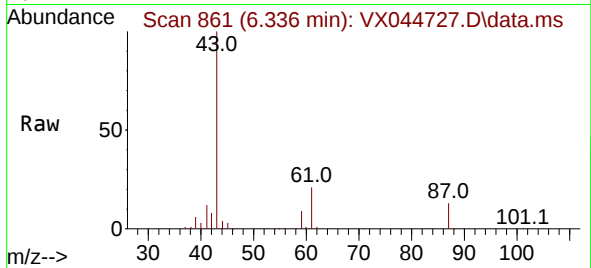




#43  
Isopropyl Acetate  
Concen: 27.764 ug/l  
RT: 6.336 min Scan# 861  
Delta R.T. -0.000 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

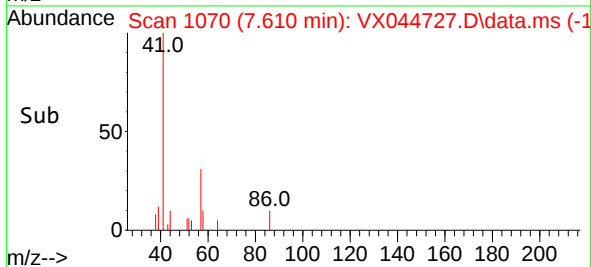
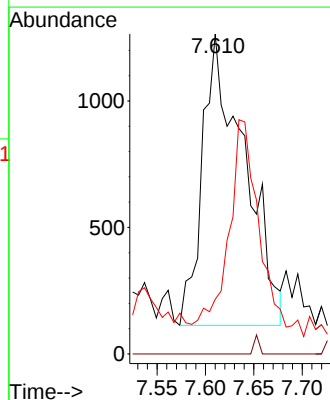
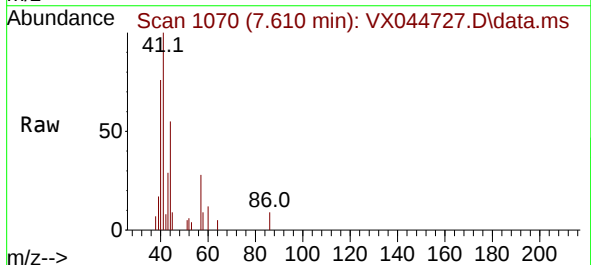
Instrument :  
MSVOA\_X  
ClientSampleId :  
REGULATOR-BUILDING-GRAVEL

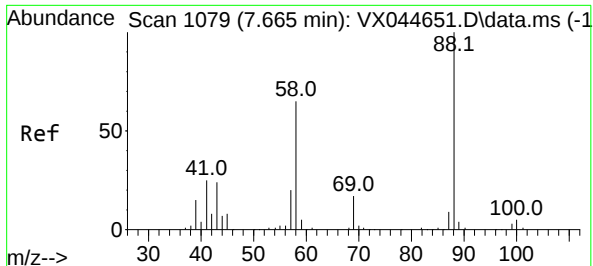
Tgt Ion: 43 Resp: 143791  
Ion Ratio Lower Upper  
43 100  
61 21.1 16.6 24.8  
87 13.5 11.0 16.6



#48  
Methyl methacrylate  
Concen: 1.441 ug/l  
RT: 7.610 min Scan# 1070  
Delta R.T. -0.079 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

Tgt Ion: 41 Resp: 3465  
Ion Ratio Lower Upper  
41 100  
69 0.0 66.8 100.2#  
39 0.0 47.4 71.0#

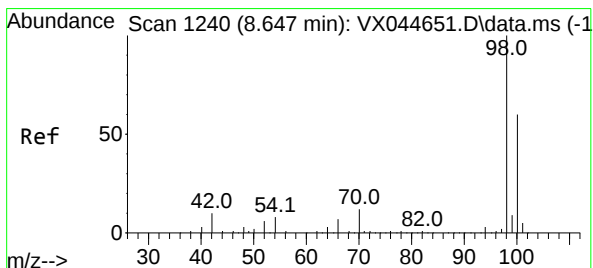
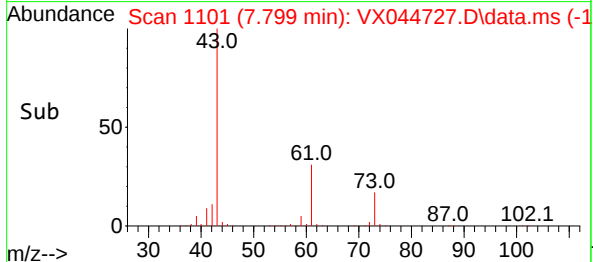
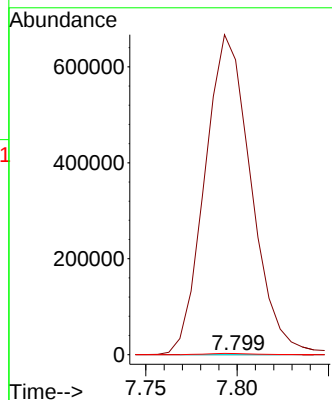
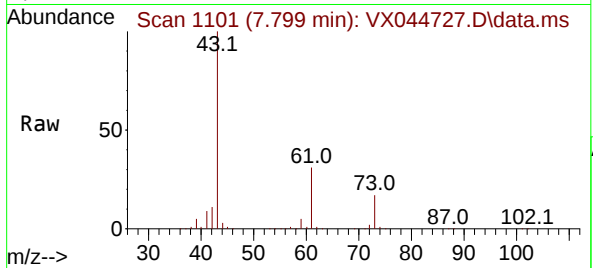




#49  
1,4-Dioxane  
Concen: 4.406 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.134 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

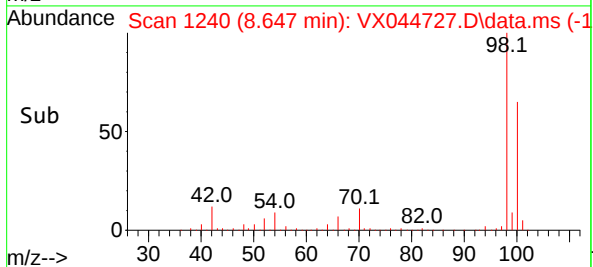
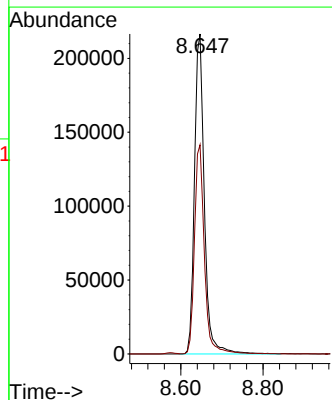
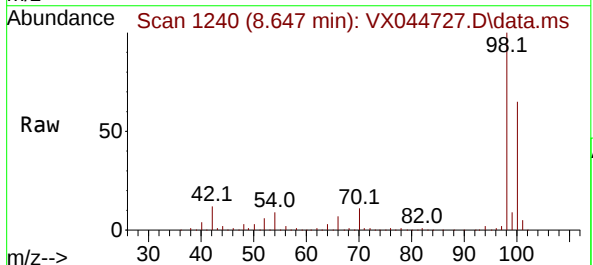
Instrument :  
MSVOA\_X  
ClientSampleId :  
REGULATOR-BUILDING-GRAVEL

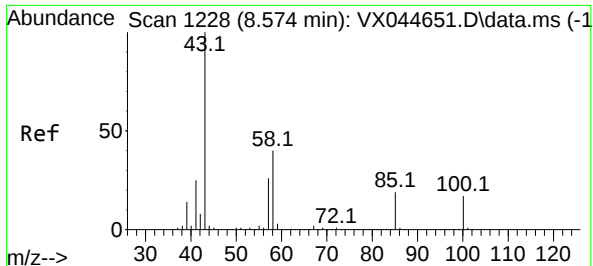
Tgt Ion: 88 Resp: 221  
Ion Ratio Lower Upper  
88 100  
43 540171.0 27.0 40.4#  
58 2127.6 55.8 83.8#



#50  
Toluene-d8  
Concen: 54.474 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

Tgt Ion: 98 Resp: 360726  
Ion Ratio Lower Upper  
98 100  
100 65.5 53.2 79.8

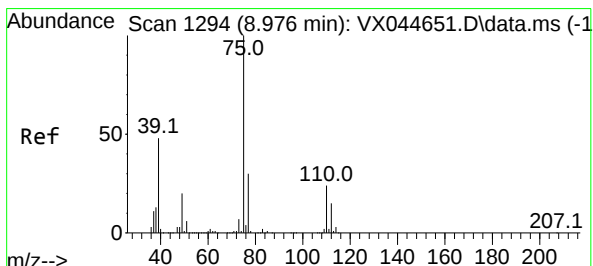
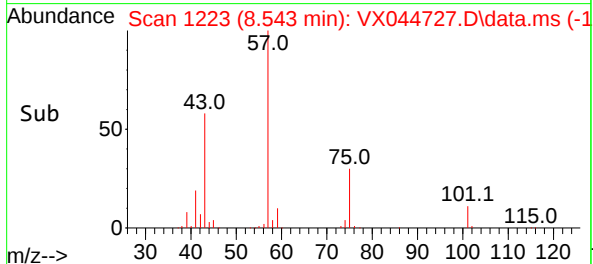
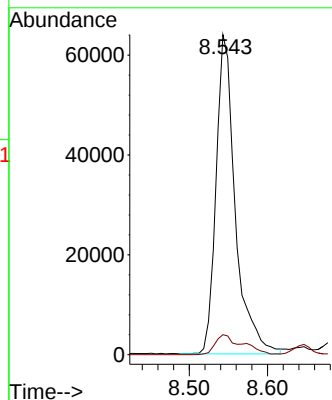
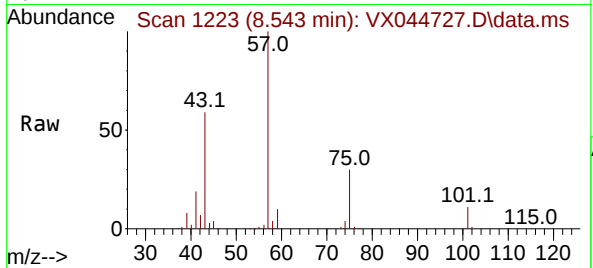




#51  
4-Methyl-2-Pentanone  
Concen: 38.099 ug/l  
RT: 8.543 min Scan# 11  
Delta R.T. -0.031 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

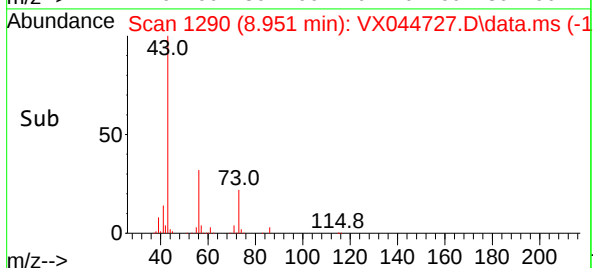
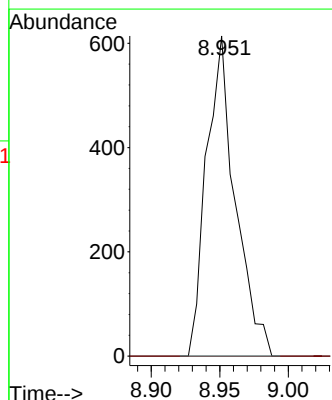
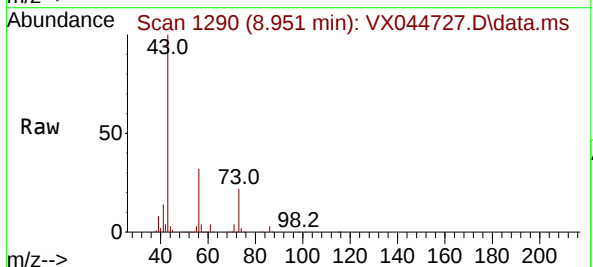
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MSVOA\_X  
ClientSampleId :  
REGULATOR-BUILDING-GRAVEL

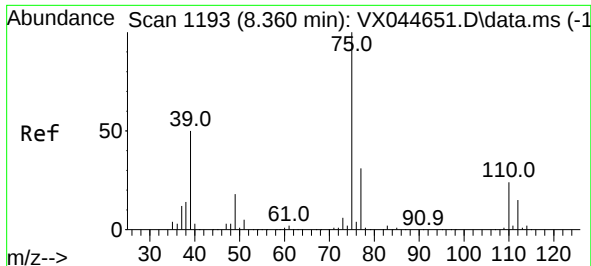
Tgt Ion: 43 Resp: 109044  
Ion Ratio Lower Upper  
43 100  
58 9.0 31.9 47.9#



#53  
t-1,3-Dichloropropene  
Concen: 0.271 ug/l  
RT: 8.951 min Scan# 1290  
Delta R.T. -0.025 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

Tgt Ion: 75 Resp: 900  
Ion Ratio Lower Upper  
75 100  
77 0.0 24.4 36.6#

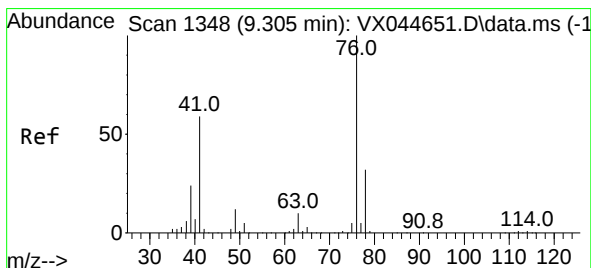
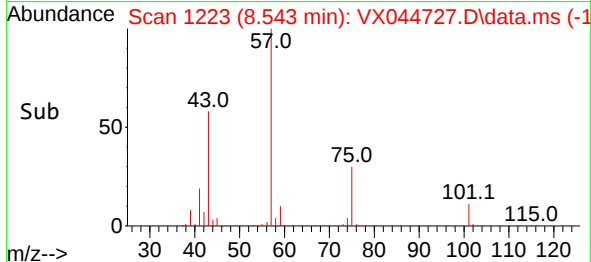
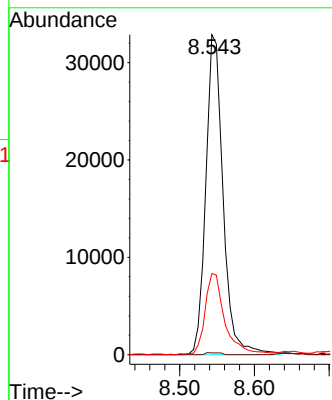
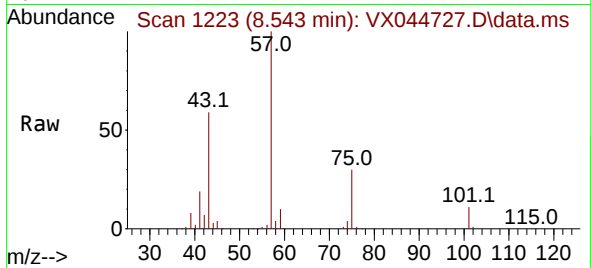




#54  
 cis-1,3-Dichloropropene  
 Concen: 14.628 ug/l  
 RT: 8.543 min Scan# 1193  
 Delta R.T. 0.183 min  
 Lab File: VX044727.D  
 Acq: 27 Jan 2025 16:28

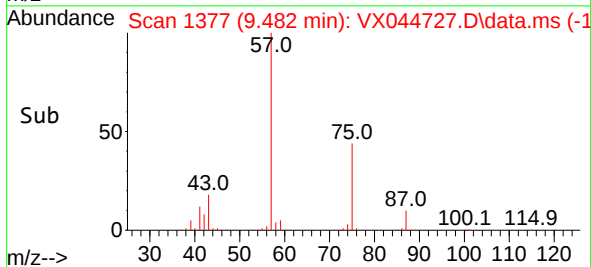
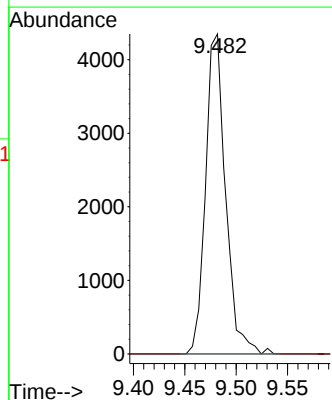
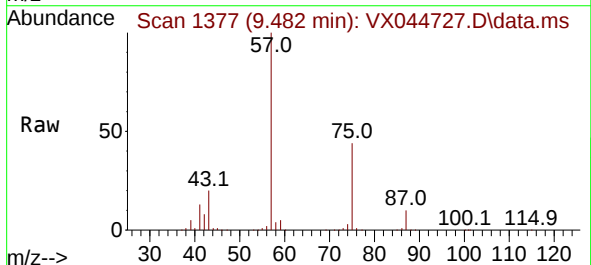
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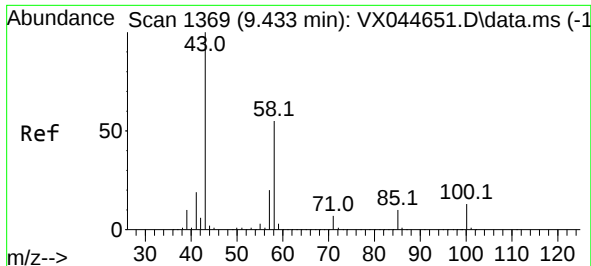
Tgt Ion: 75 Resp: 52756  
 Ion Ratio Lower Upper  
 75 100  
 77 0.5 25.1 37.7#  
 39 25.0 40.3 60.5#



#57  
 1,3-Dichloropropane  
 Concen: 1.713 ug/l  
 RT: 9.482 min Scan# 1377  
 Delta R.T. 0.177 min  
 Lab File: VX044727.D  
 Acq: 27 Jan 2025 16:28

Tgt Ion: 76 Resp: 5917  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.0 39.0#

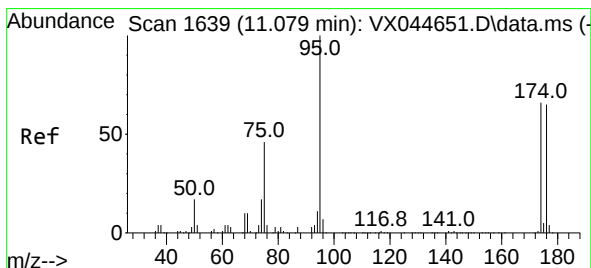
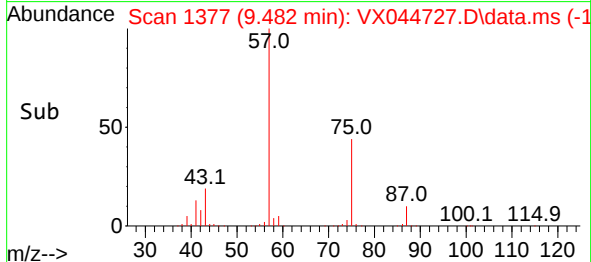
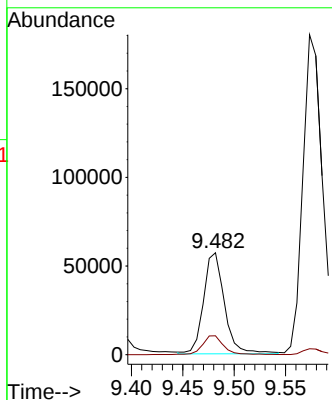
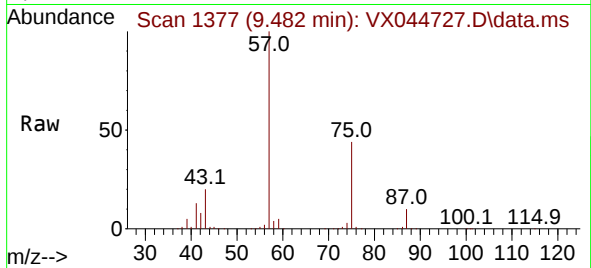




#59  
2-Hexanone  
Concen: 38.372 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.049 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

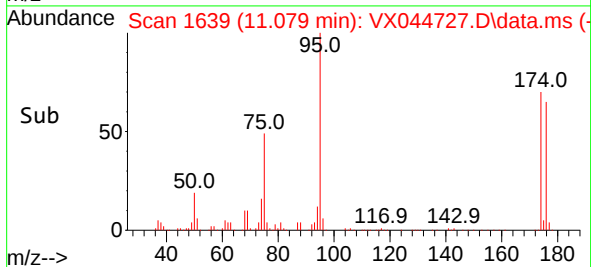
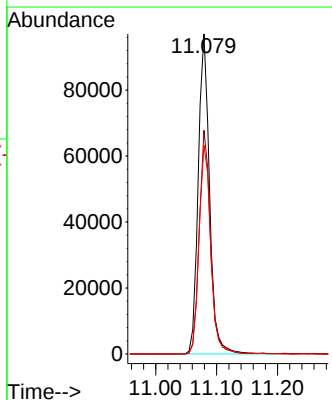
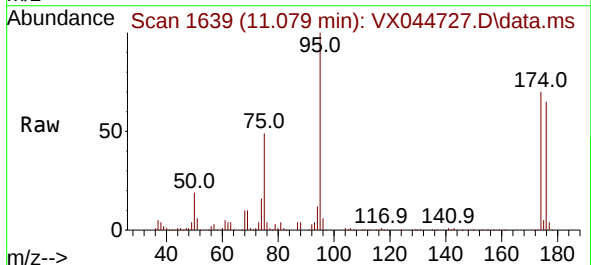
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MSVOA\_X  
ClientSampleId :  
REGULATOR-BUILDING-GRAVEL

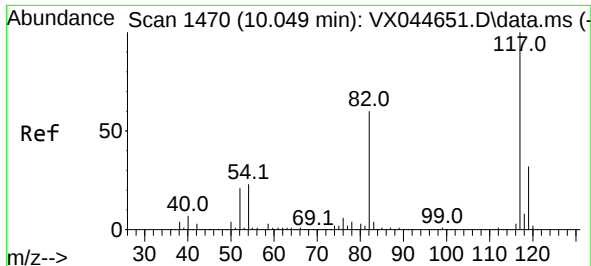
Tgt Ion: 43 Resp: 80799  
Ion Ratio Lower Upper  
43 100  
58 19.4 27.8 83.3#



#62  
4-Bromofluorobenzene  
Concen: 50.615 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

Tgt Ion: 95 Resp: 124947  
Ion Ratio Lower Upper  
95 100  
174 70.0 0.0 133.0  
176 67.4 0.0 129.4

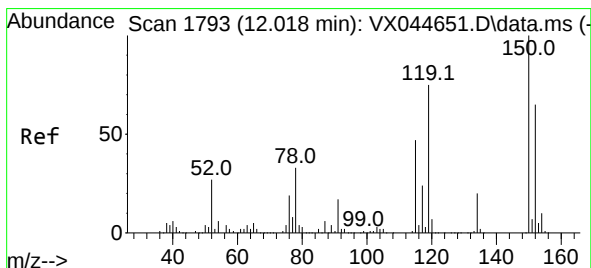
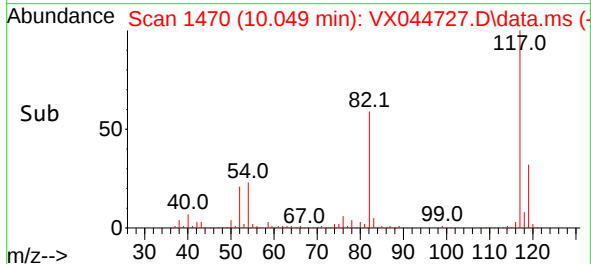
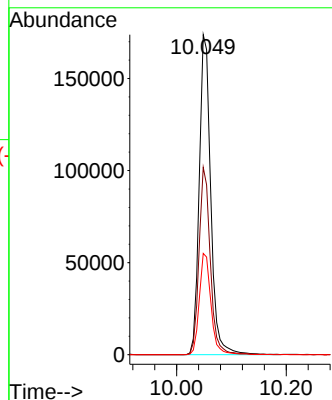
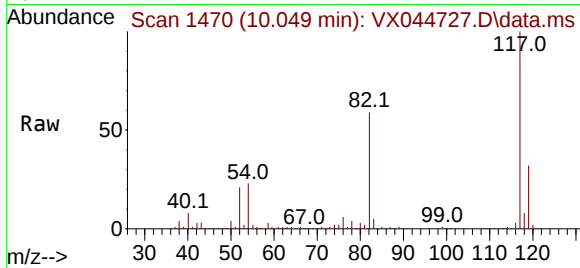




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

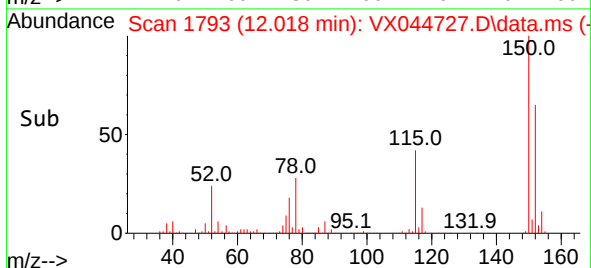
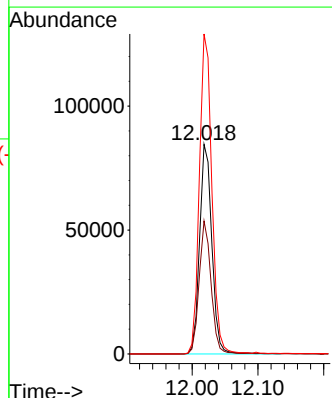
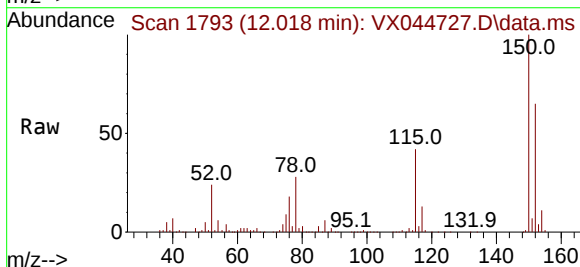
Instrument :  
MSVOA\_X  
ClientSampleId :  
REGULATOR-BUILDING-GRAVEL

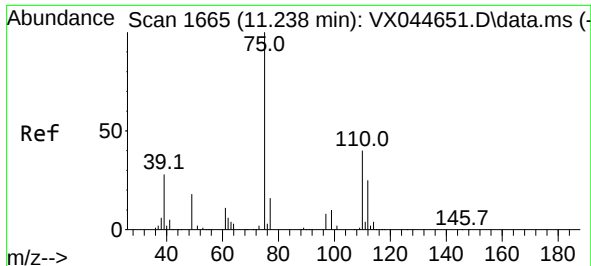
Tgt Ion:117 Resp: 254468  
Ion Ratio Lower Upper  
117 100  
82 58.5 47.6 71.4  
119 31.6 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

Tgt Ion:152 Resp: 109772  
Ion Ratio Lower Upper  
152 100  
115 61.6 43.8 131.4  
150 154.9 0.0 347.8

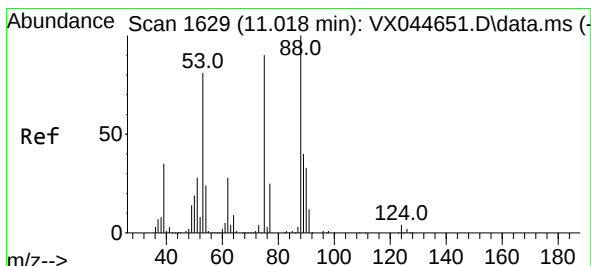
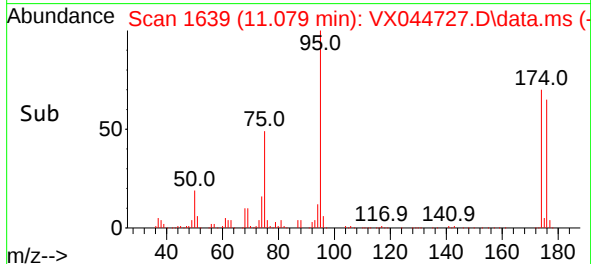
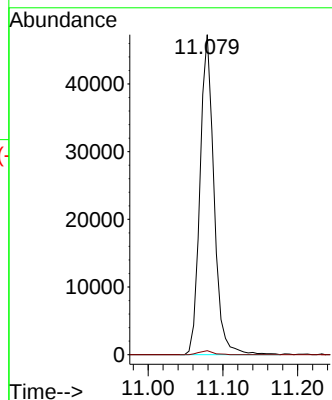
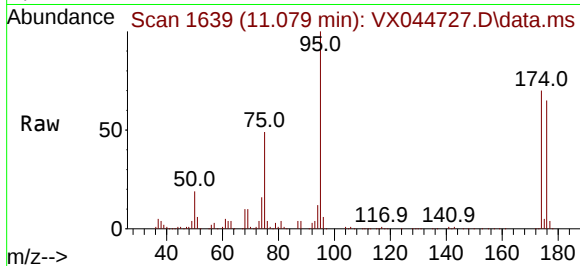




#76  
1,2,3-Trichloropropane  
Concen: 23.068 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

Instrument : MSVOA\_X  
ClientSampleId : REGULATOR-BUILDING-GRAVEL

Tgt Ion: 75 Resp: 61453  
Ion Ratio Lower Upper  
75 100  
77 1.2 23.4 70.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 52.753 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX044727.D  
Acq: 27 Jan 2025 16:28

Tgt Ion: 75 Resp: 61453  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.3 111.5#  
89 0.0 37.4 56.0#

