

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082923\  
 Data File : VX037371.D  
 Acq On : 30 Aug 2023 05:35  
 Operator : JC/MD  
 Sample : 04198-10  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OR-309-OK-370-VOC-25

Quant Time: Aug 31 01:26:39 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 2023  
 Response via : Initial Calibration

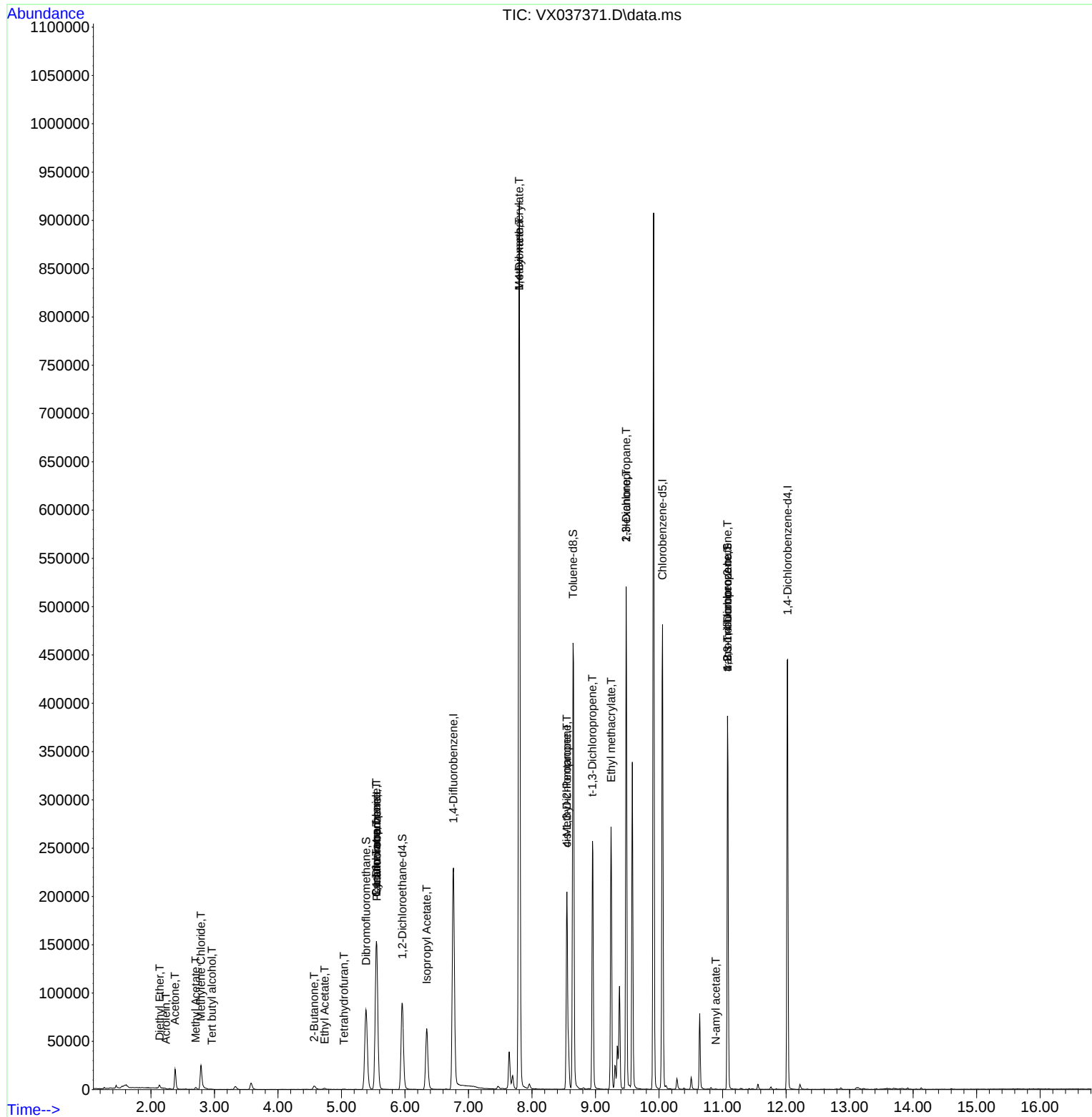
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 145256     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 244567     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 220673     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 98855      | 50.000  | ug/l   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 91287      | 43.592  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 87.180% |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 75157      | 46.402  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 92.800% |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 288556     | 49.113  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 98.220% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 105445     | 45.669  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 91.340% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         | Qvalue |          |
| 8) Diethyl Ether              | 2.136          | 74   | 1085       | 1.065   | ug/l   | 79       |
| 11) Tert butyl alcohol        | 2.959          | 59   | 458        | 0.932   | ug/l # | 78       |
| 13) Acrolein                  | 2.233          | 56   | 78         | 0.209   | ug/l # | 27       |
| 16) Acetone                   | 2.380          | 43   | 21408      | 26.131  | ug/l # | 84       |
| 18) Methyl Acetate            | 2.703          | 43   | 2613       | 0.847   | ug/l   | 95       |
| 20) Methylene Chloride        | 2.788          | 84   | 15571      | 8.499   | ug/l # | 84       |
| 25) 2-Butanone                | 4.568          | 43   | 7619       | 6.177   | ug/l # | 82       |
| 29) Tetrahydrofuran           | 5.038          | 42   | 281        | 0.357   | ug/l # | 74       |
| 31) Cyclohexane               | 5.550          | 56   | 2768       | 1.176   | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 11494      | 4.995   | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.733          | 43   | 2717       | 1.156   | ug/l # | 91       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 15264      | 6.106   | ug/l # | 17       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 84081      | 22.530  | ug/l # | 91       |
| 48) Methyl methacrylate       | 7.799          | 41   | 74279      | 40.813  | ug/l # | 46       |
| 49) 1,4-Dioxane               | 7.799          | 88   | 109        | 2.224   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 80761      | 35.638  | ug/l # | 37       |
| 53) t-1,3-Dichloropropene     | 8.952          | 75   | 589        | 0.225   | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 35903      | 12.708  | ug/l # | 50       |
| 56) Ethyl methacrylate        | 9.244          | 69   | 572        | 0.206   | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 4849       | 1.620   | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482          | 43   | 54119      | 31.321  | ug/l # | 56       |
| 74) N-amyl acetate            | 10.896         | 43   | 740        | 0.265   | ug/l # | 44       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 52417      | 24.898  | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 52417      | 69.541  | ug/l # | 5        |
| -----                         |                |      |            |         |        |          |

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

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OR-309-OK-370-VOC-25

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 18 09:30:38 2023  
Response via : Initial Calibration

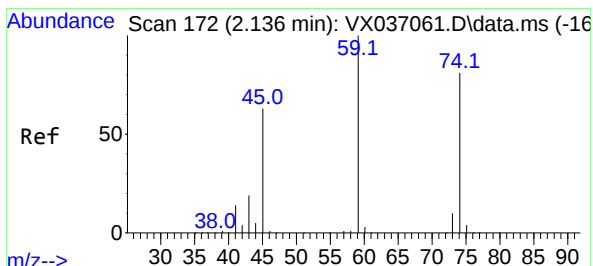
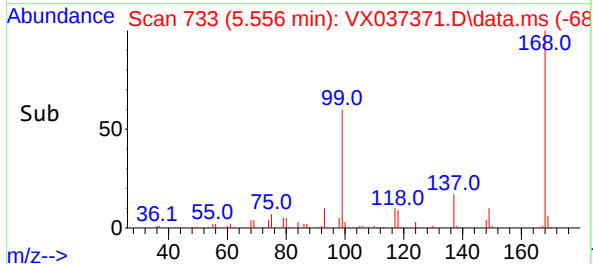
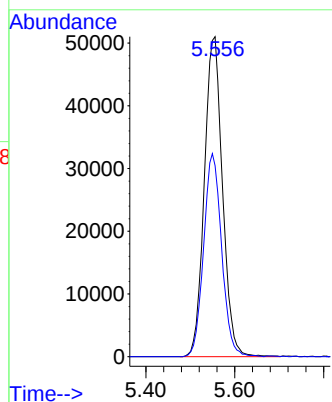
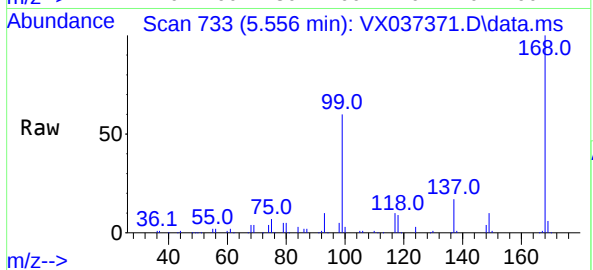




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

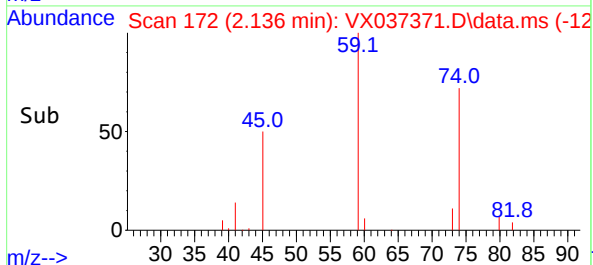
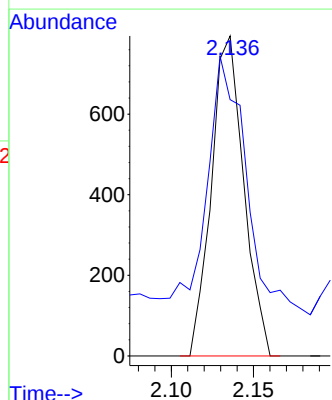
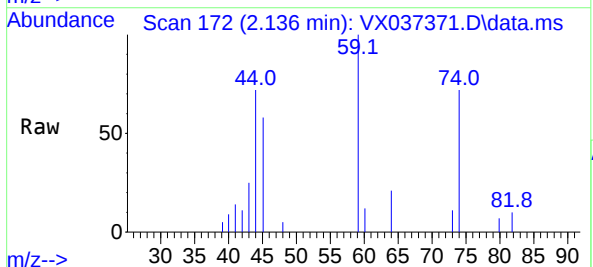
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-309-OK-370-VOC-25

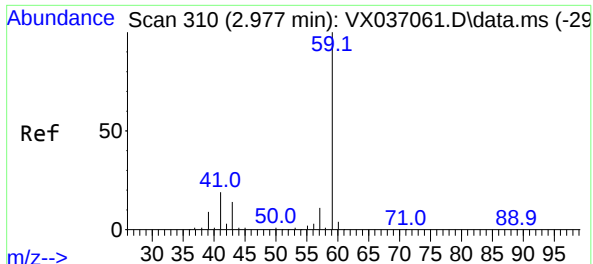
Tgt Ion:168 Resp: 145256  
Ion Ratio Lower Upper  
168 100  
99 59.7 56.6 85.0



#8  
Diethyl Ether  
Concen: 1.065 ug/l  
RT: 2.136 min Scan# 172  
Delta R.T. -0.000 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Tgt Ion: 74 Resp: 1085  
Ion Ratio Lower Upper  
74 100  
45 128.3 53.3 159.8





#11

Tert butyl alcohol

Concen: 0.932 ug/l

RT: 2.959 min Scan# 30

Delta R.T. -0.018 min

Lab File: VX037371.D

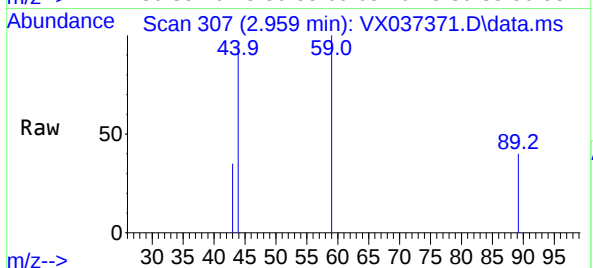
Acq: 30 Aug 2023 05:35

Instrument :

MSVOA\_X

ClientSampleId :

OR-309-OK-370-VOC-25

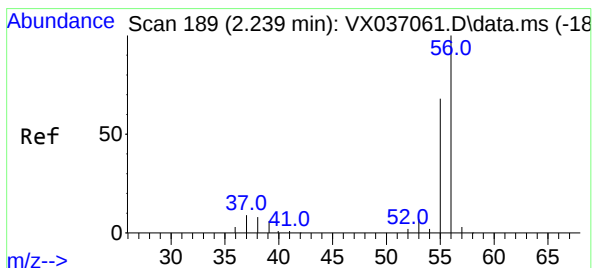
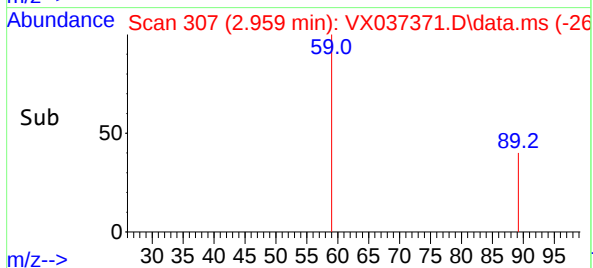
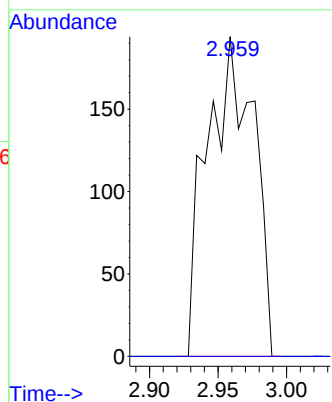


Tgt Ion: 59 Resp: 458

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#13

Acrolein

Concen: 0.209 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX037371.D

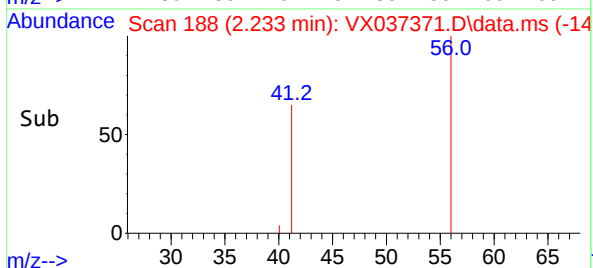
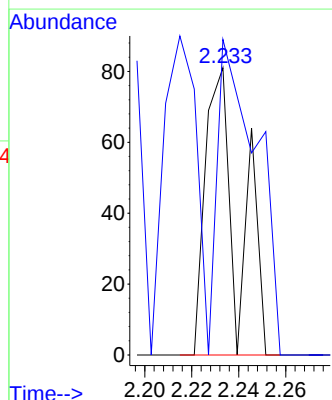
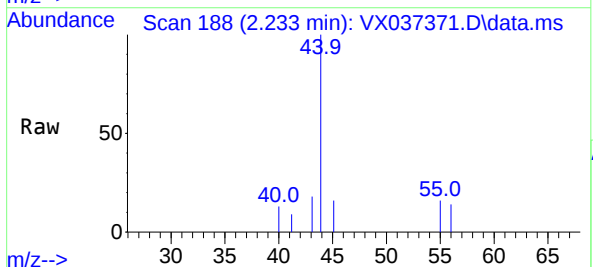
Acq: 30 Aug 2023 05:35

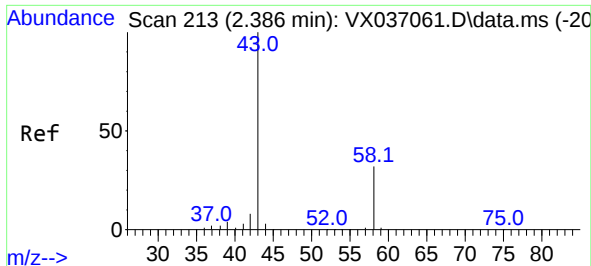
Tgt Ion: 56 Resp: 78

Ion Ratio Lower Upper

56 100

55 132.1 57.1 85.7#

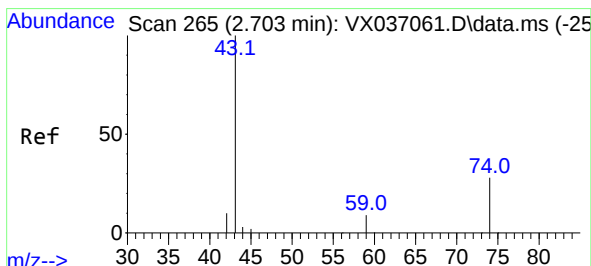
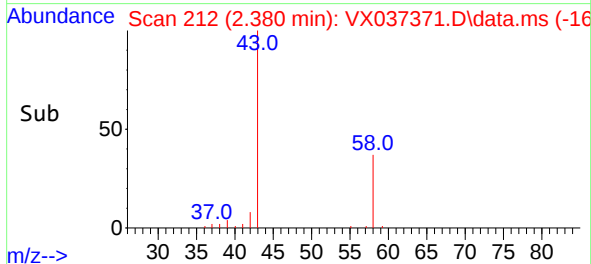
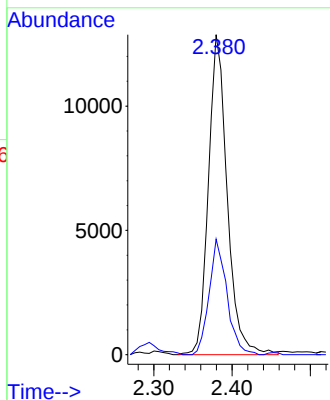
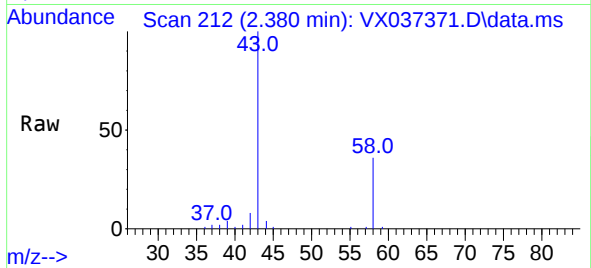




#16  
Acetone  
Concen: 26.131 ug/l  
RT: 2.380 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

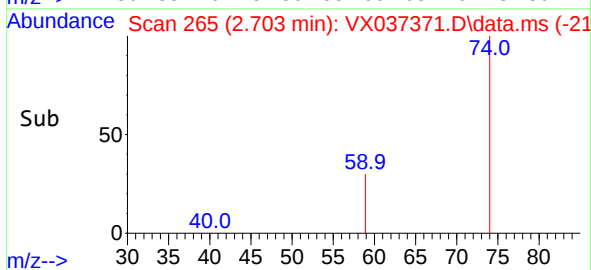
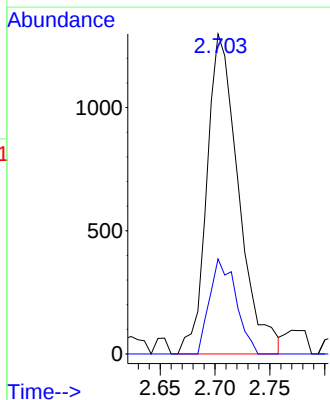
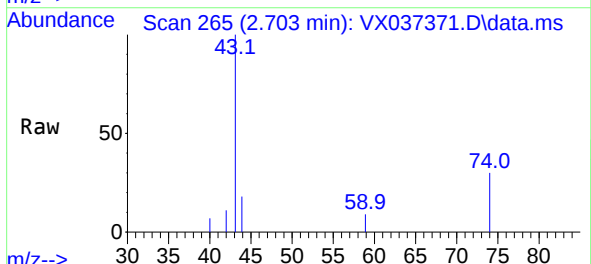
Instrument :  
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OR-309-OK-370-VOC-25

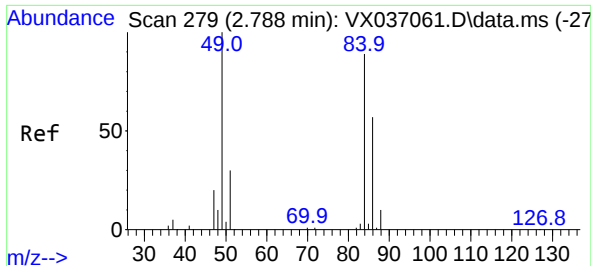
Tgt Ion: 43 Resp: 21408  
Ion Ratio Lower Upper  
43 100  
58 35.5 21.9 32.9#



#18  
Methyl Acetate  
Concen: 0.847 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. 0.000 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Tgt Ion: 43 Resp: 2613  
Ion Ratio Lower Upper  
43 100  
74 24.6 17.8 26.8



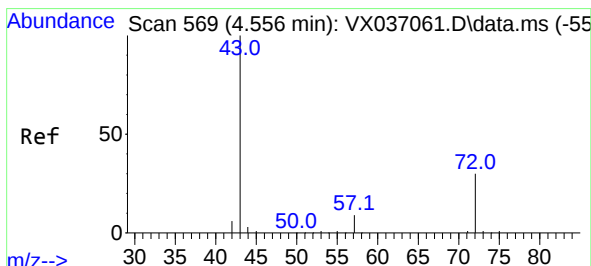
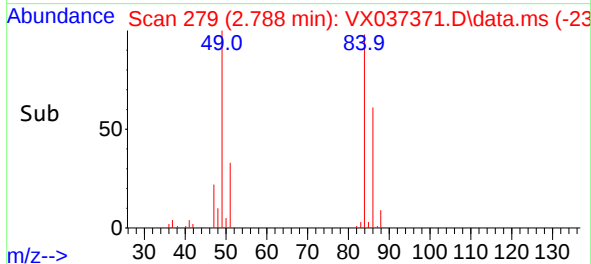
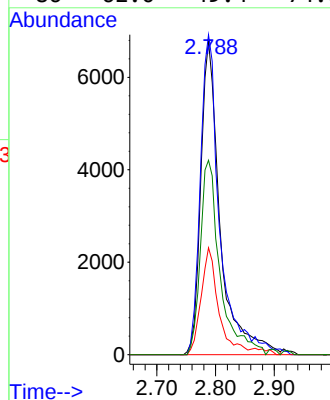
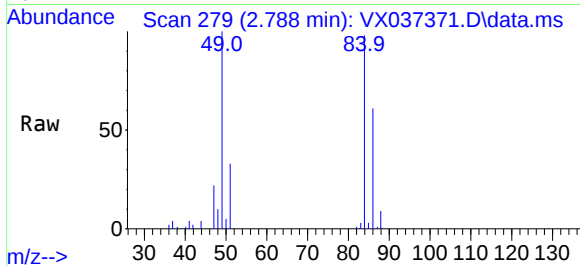


#20  
Methylene Chloride  
Concen: 8.499 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-309-OK-370-VOC-25

Tgt Ion: 84 Resp: 15571

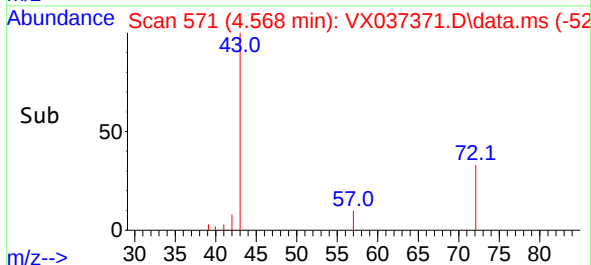
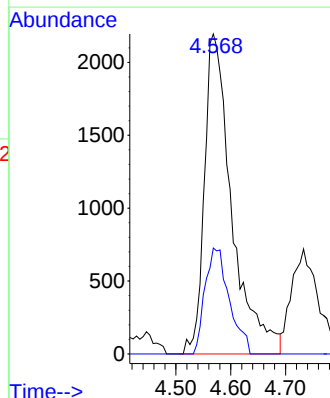
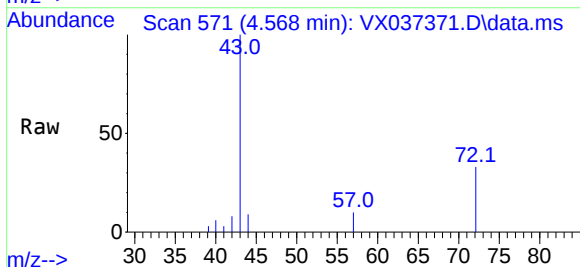
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 102.1 | 103.6 | 155.4# |
| 51  | 34.1  | 33.8  | 50.6   |
| 86  | 62.0  | 49.4  | 74.0   |

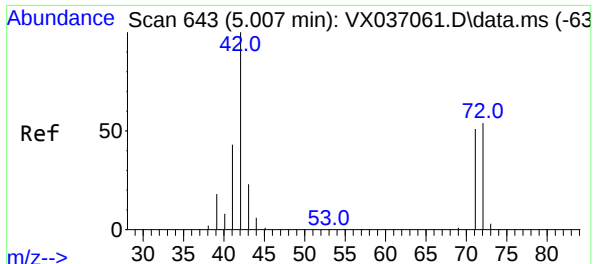


#25  
2-Butanone  
Concen: 6.177 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. 0.012 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Tgt Ion: 43 Resp: 7619

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 33.1  | 19.4  | 29.2# |

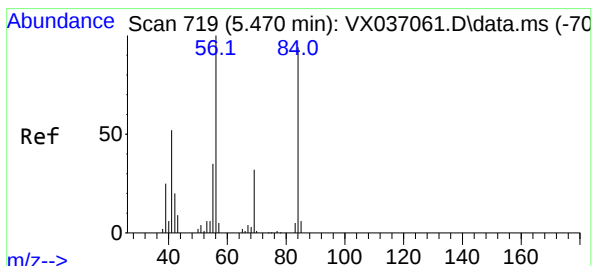
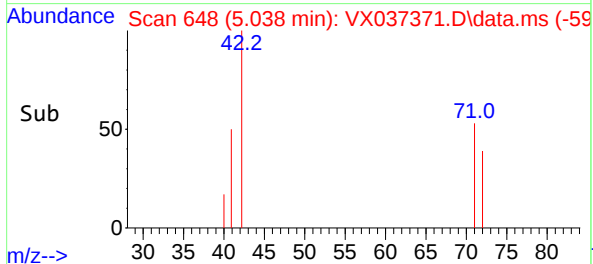
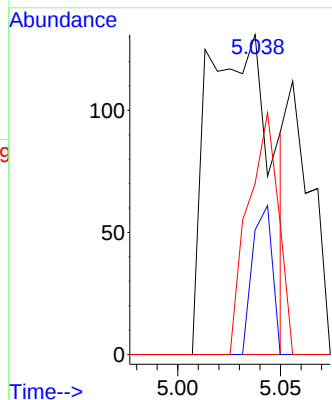
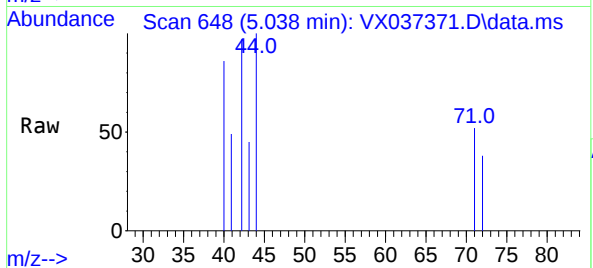




#29  
Tetrahydrofuran  
Concen: 0.357 ug/l  
RT: 5.038 min Scan# 64  
Delta R.T. 0.030 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

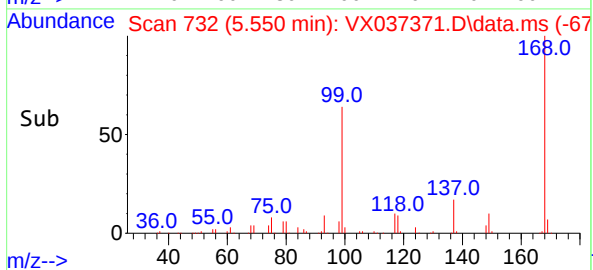
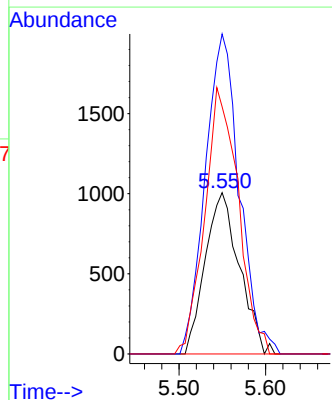
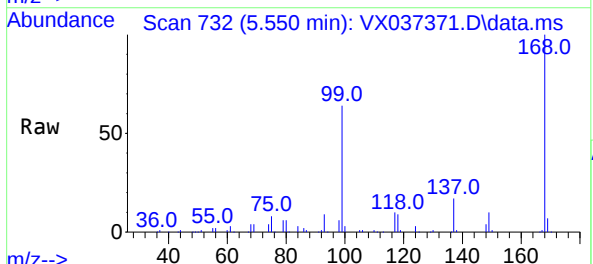
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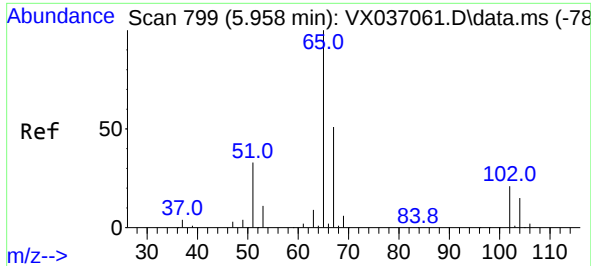
Tgt Ion: 42 Resp: 281  
Ion Ratio Lower Upper  
42 100  
72 14.6 34.2 51.4#  
71 36.3 32.2 48.2



#31  
Cyclohexane  
Concen: 1.176 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. 0.079 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Tgt Ion: 56 Resp: 2768  
Ion Ratio Lower Upper  
56 100  
69 198.5 23.4 35.2#  
84 153.4 65.9 98.9#

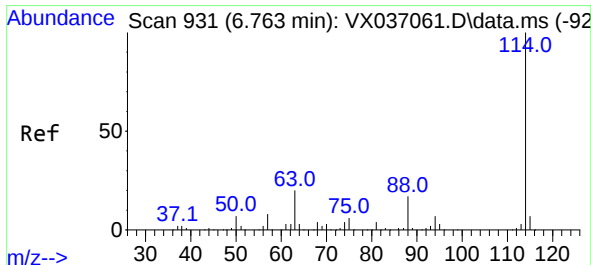
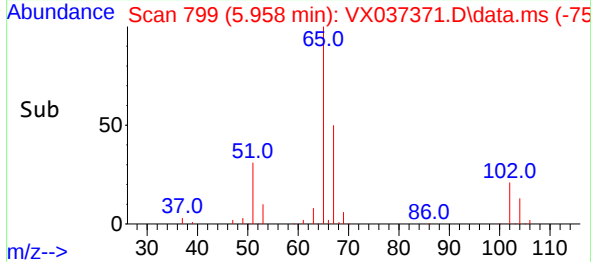
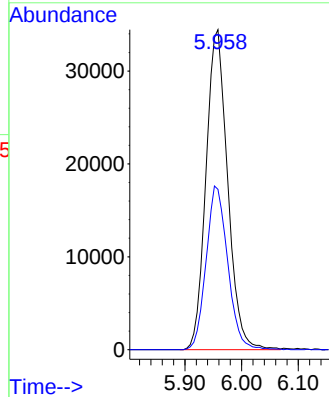
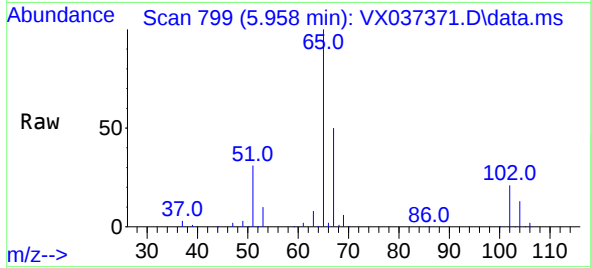




#33  
1,2-Dichloroethane-d4  
Concen: 43.592 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

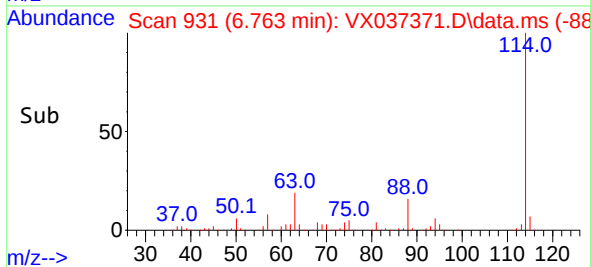
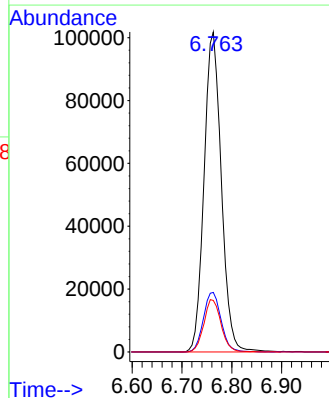
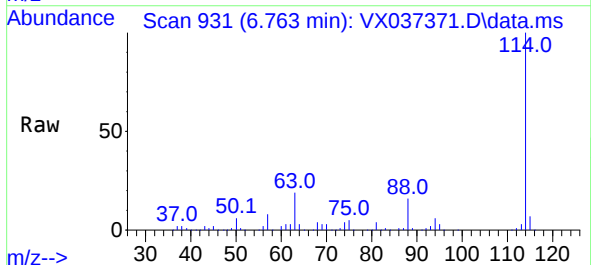
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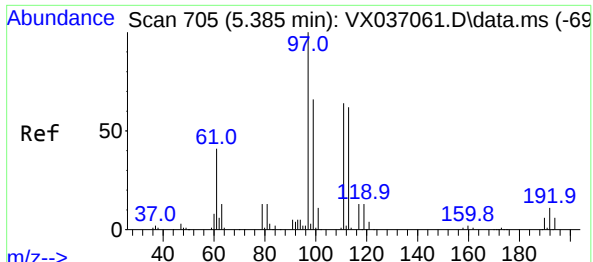
Tgt Ion: 65 Resp: 91287  
Ion Ratio Lower Upper  
65 100  
67 51.1 0.0 100.2



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 931  
Delta R.T. -0.000 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Tgt Ion: 114 Resp: 244567  
Ion Ratio Lower Upper  
114 100  
63 18.6 0.0 45.0  
88 16.1 0.0 36.6

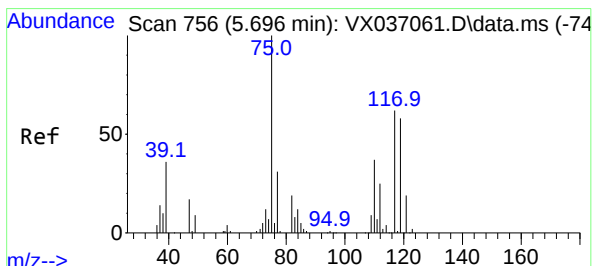
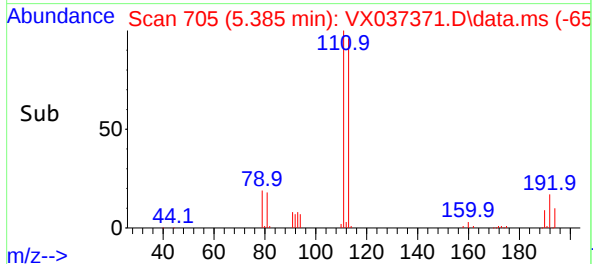
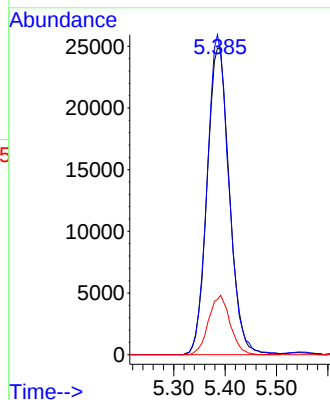
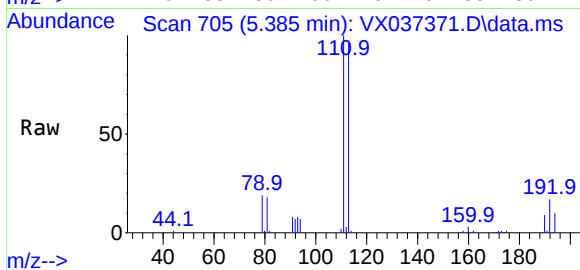




#35  
Dibromofluoromethane  
Concen: 46.402 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

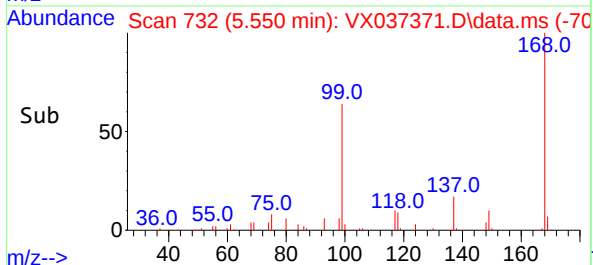
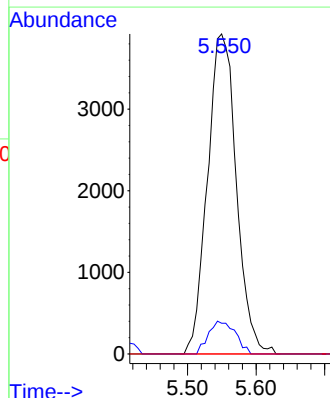
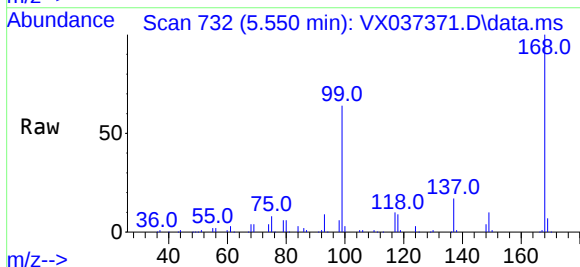
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-309-OK-370-VOC-25

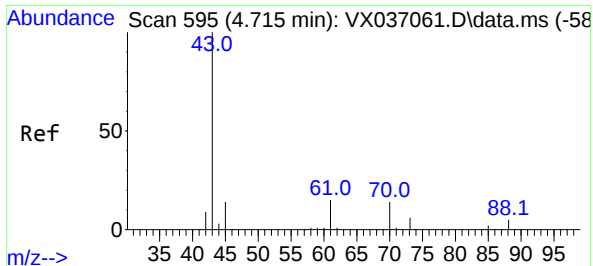
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 75157 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 101.1 | 82.9  | 124.3 |
| 192      | 18.6  | 13.3  | 19.9  |



#36  
1,1-Dichloropropene  
Concen: 4.995 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.146 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 11494 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 9.5   | 17.0  | 50.9# |
| 77       | 0.0   | 24.7  | 37.1# |





#37

Ethyl Acetate

Concen: 1.156 ug/l

RT: 4.733 min Scan# 595

Delta R.T. 0.018 min

Lab File: VX037371.D

Acq: 30 Aug 2023 05:35

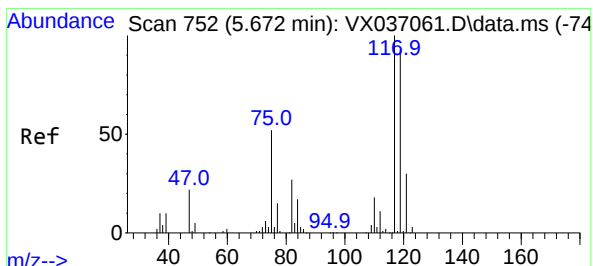
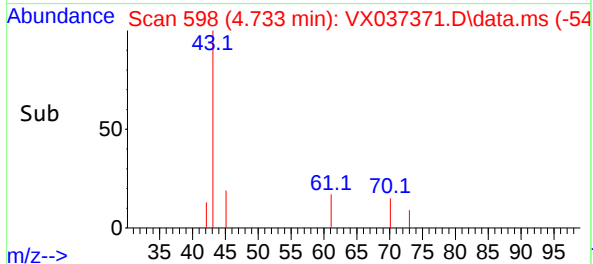
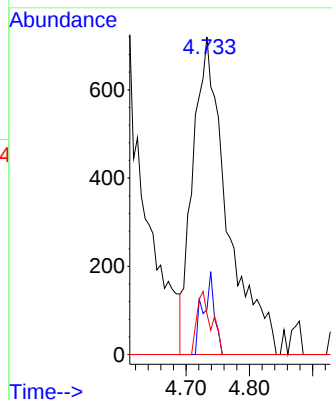
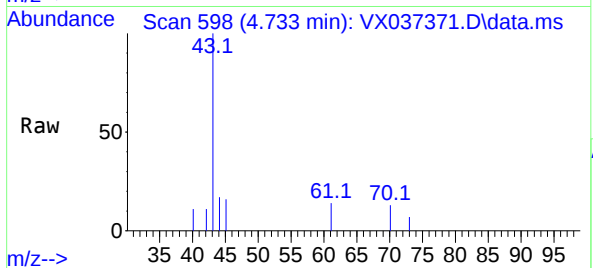
Instrument :

MSVOA\_X

ClientSampleId :

OR-309-OK-370-VOC-25

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 2717  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 61 8.6      | 10.6 16.0#  |
| 70 8.4      | 8.3 12.5    |



#38

Carbon Tetrachloride

Concen: 6.106 ug/l

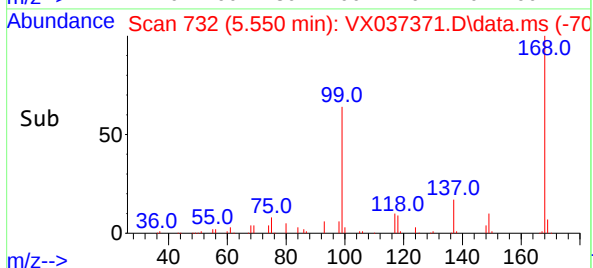
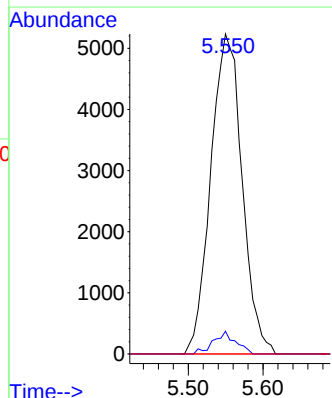
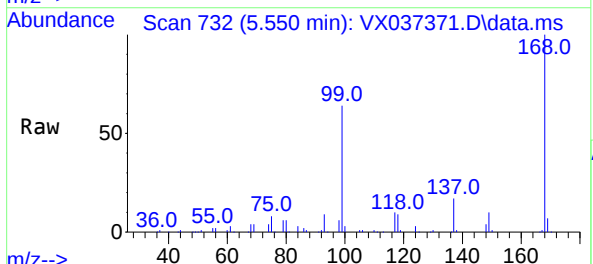
RT: 5.550 min Scan# 732

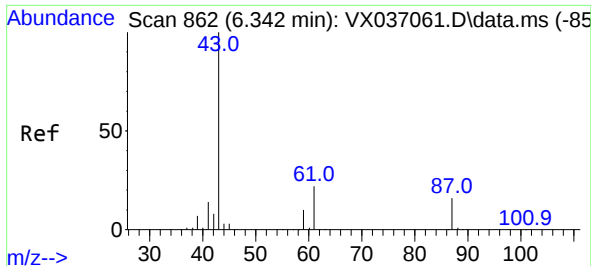
Delta R.T. -0.122 min

Lab File: VX037371.D

Acq: 30 Aug 2023 05:35

|              |             |
|--------------|-------------|
| Tgt Ion: 117 | Resp: 15264 |
| Ion Ratio    | Lower Upper |
| 117 100      |             |
| 119 7.1      | 78.2 117.2# |
| 121 0.0      | 24.4 36.6#  |

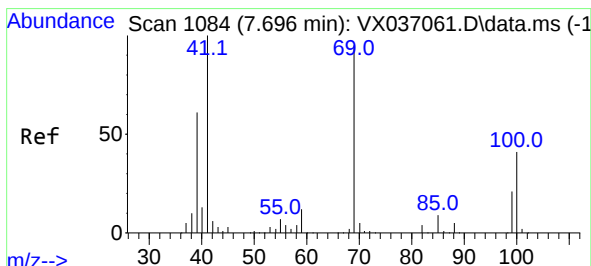
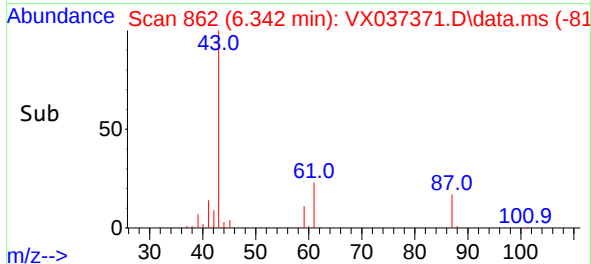
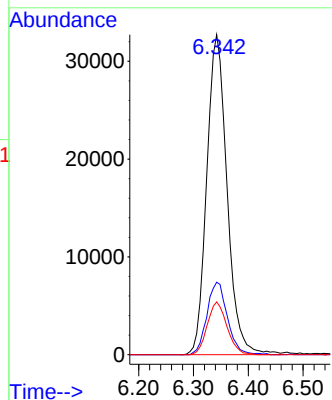
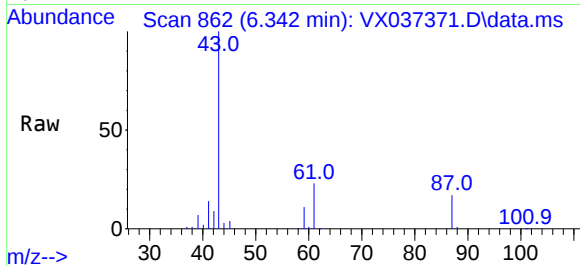




#43  
Isopropyl Acetate  
Concen: 22.530 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.000 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

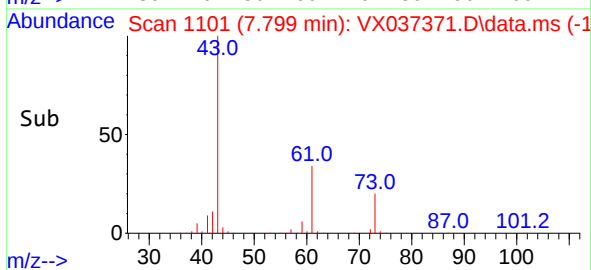
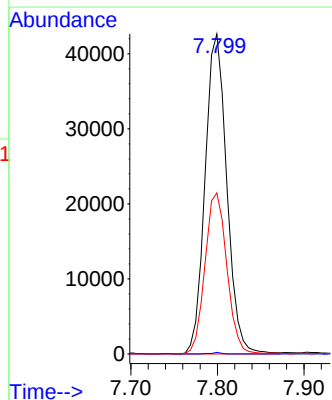
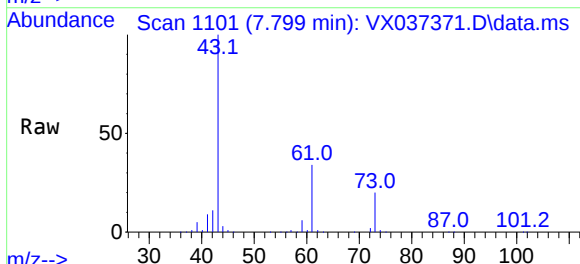
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-309-OK-370-VOC-25

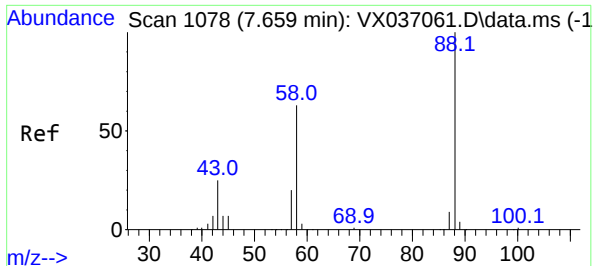
Tgt Ion: 43 Resp: 84081  
Ion Ratio Lower Upper  
43 100  
61 22.8 15.2 22.8#  
87 16.0 9.8 14.6#



#48  
Methyl methacrylate  
Concen: 40.813 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.104 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Tgt Ion: 41 Resp: 74279  
Ion Ratio Lower Upper  
41 100  
69 0.2 59.2 88.8#  
39 50.6 47.7 71.5





#49

1,4-Dioxane

Concen: 2.224 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.140 min

Lab File: VX037371.D

Acq: 30 Aug 2023 05:35

Instrument :

MSVOA\_X

ClientSampleId :

OR-309-OK-370-VOC-25

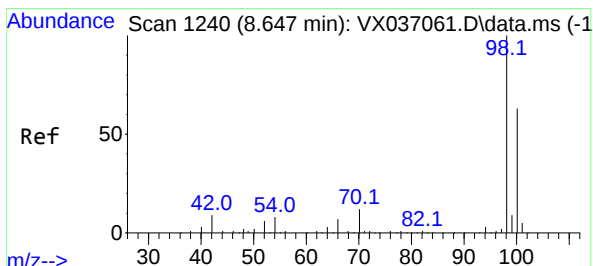
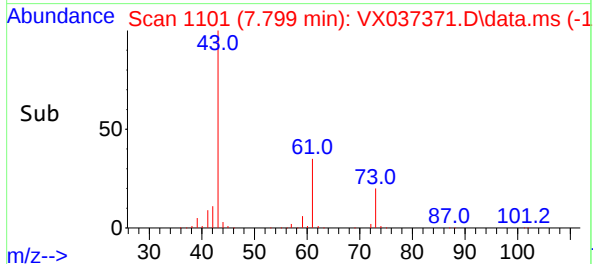
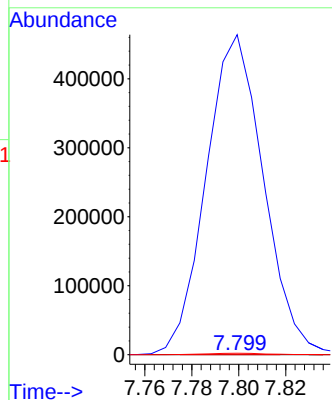
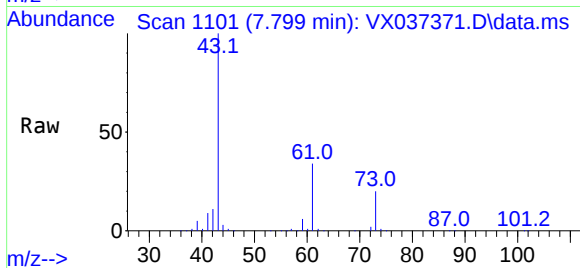
Tgt Ion: 88 Resp: 109

Ion Ratio Lower Upper

88 100

43 729542.2 0.0 0.0#

58 3386.2 60.1 90.1#



#50

Toluene-d8

Concen: 49.113 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX037371.D

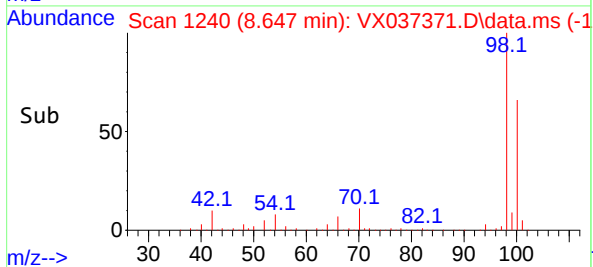
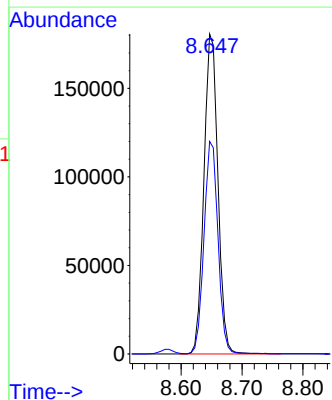
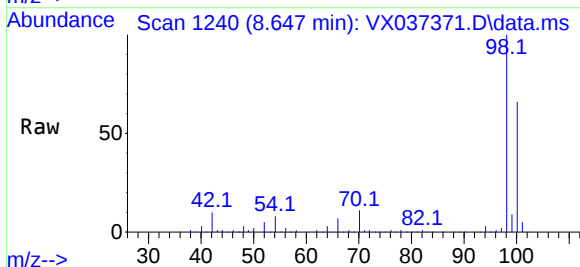
Acq: 30 Aug 2023 05:35

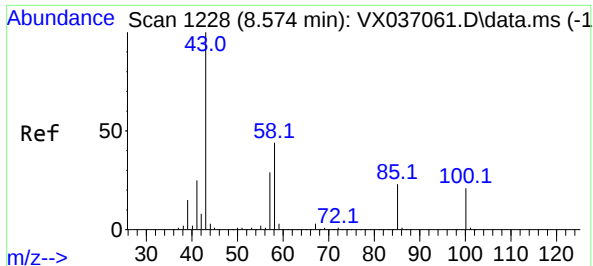
Tgt Ion: 98 Resp: 288556

Ion Ratio Lower Upper

98 100

100 66.4 53.1 79.7

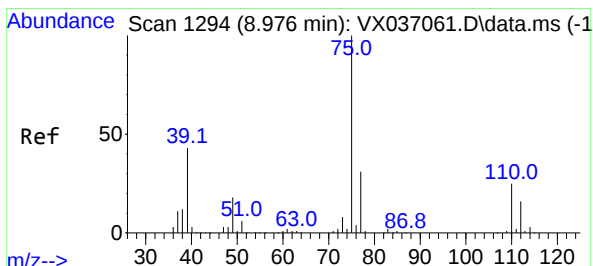
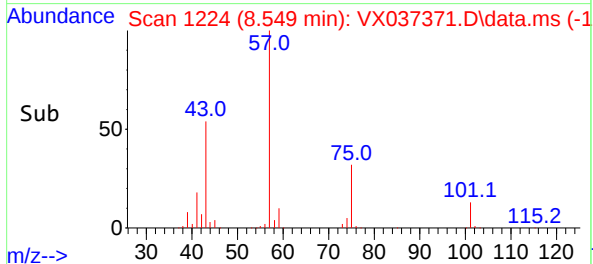
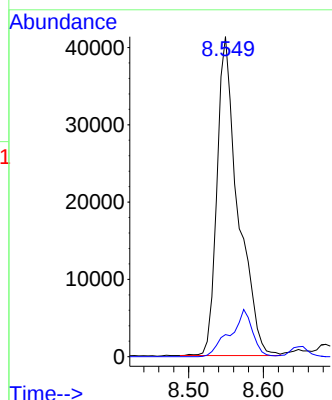
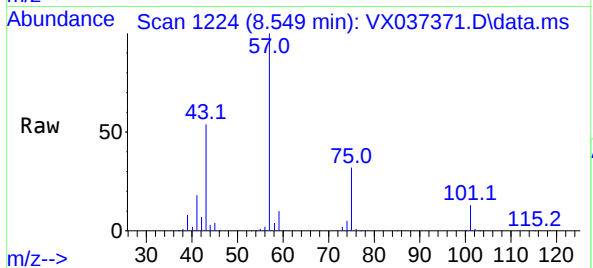




#51  
4-Methyl-2-Pentanone  
Concen: 35.638 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

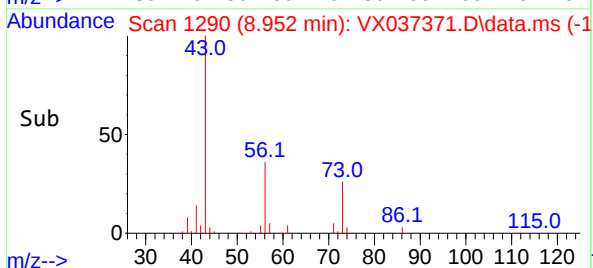
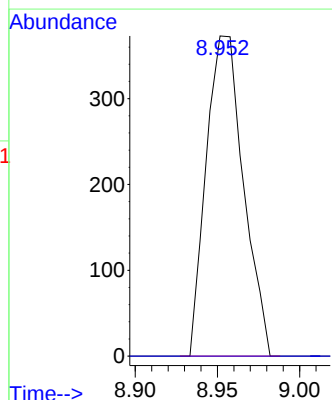
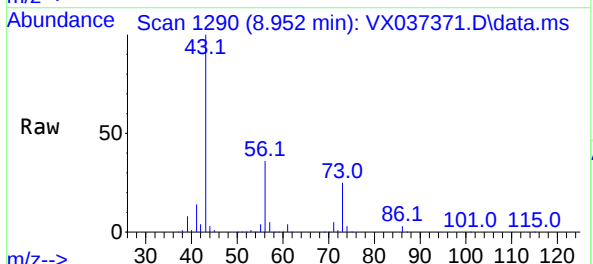
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-309-OK-370-VOC-25

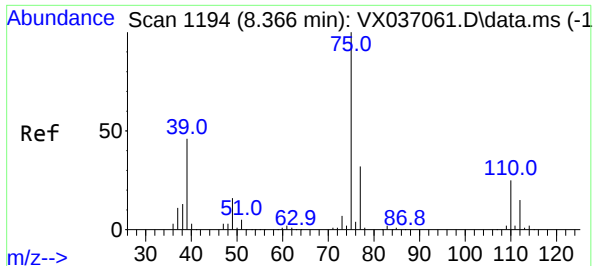
Tgt Ion: 43 Resp: 80761  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.4 45.6#



#53  
t-1,3-Dichloropropene  
Concen: 0.225 ug/l  
RT: 8.952 min Scan# 1290  
Delta R.T. -0.024 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Tgt Ion: 75 Resp: 589  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#

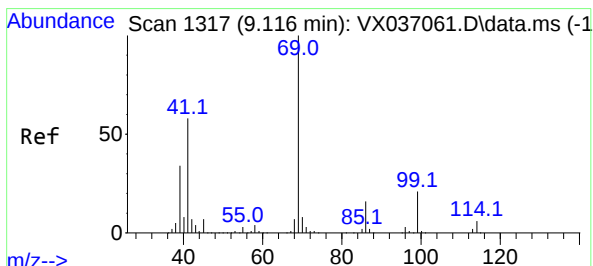
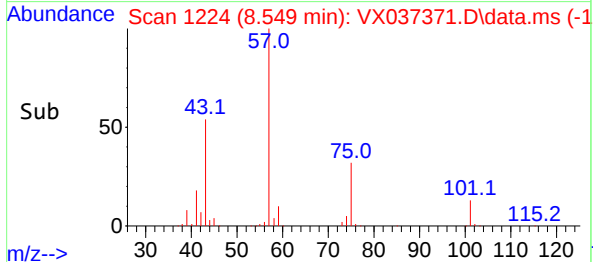
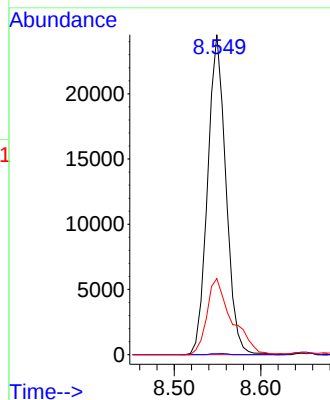
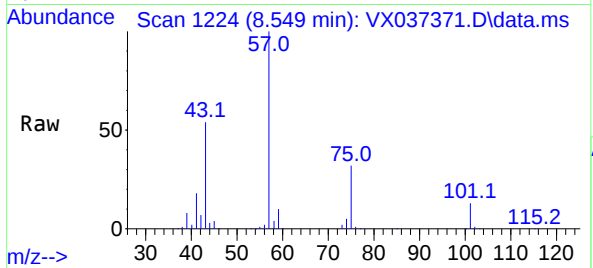




#54  
cis-1,3-Dichloropropene  
Concen: 12.708 ug/l  
RT: 8.549 min Scan# 1194  
Delta R.T. 0.183 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

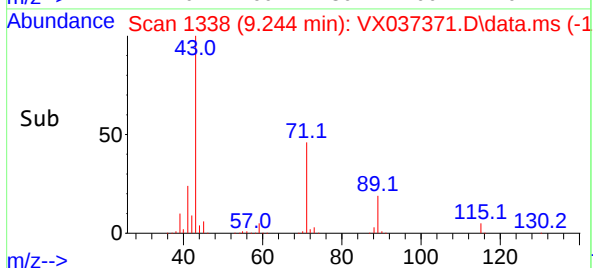
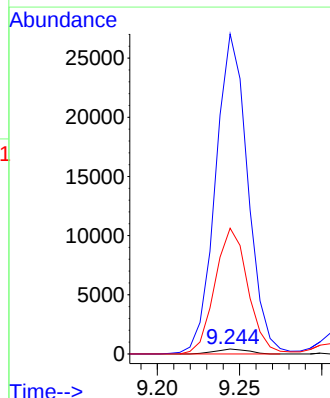
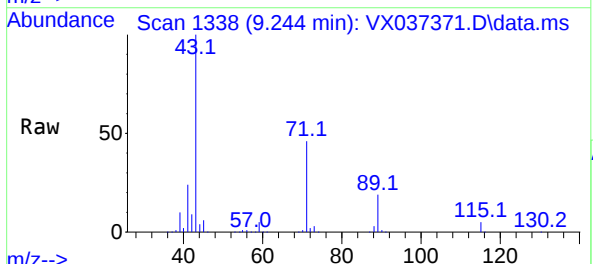
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-309-OK-370-VOC-25

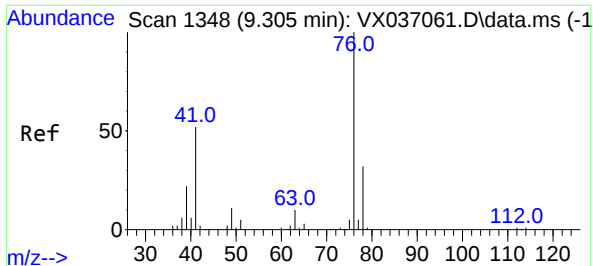
Tgt Ion: 75 Resp: 35903  
Ion Ratio Lower Upper  
75 100  
77 0.3 25.3 37.9#  
39 23.8 46.7 70.1#



#56  
Ethyl methacrylate  
Concen: 0.206 ug/l  
RT: 9.244 min Scan# 1338  
Delta R.T. 0.128 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Tgt Ion: 69 Resp: 572  
Ion Ratio Lower Upper  
69 100  
41 6475.0 56.8 85.2#  
39 2599.1 32.0 48.0#

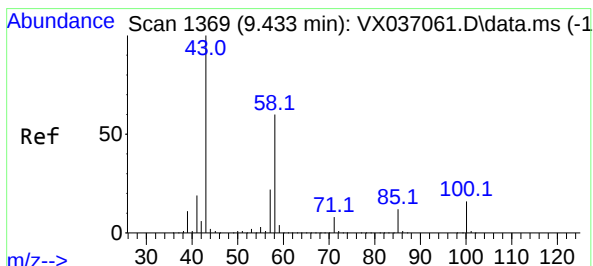
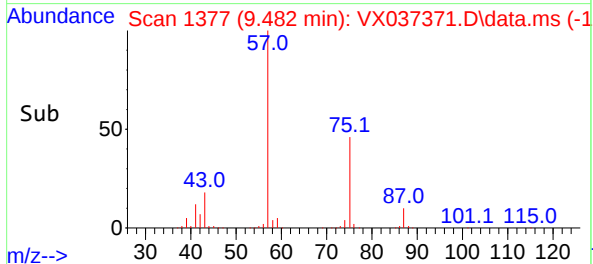
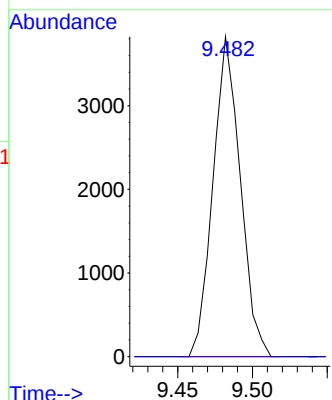
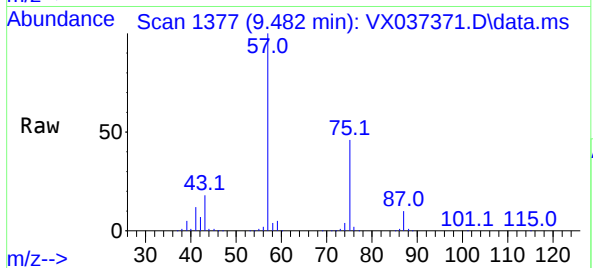




#57  
1,3-Dichloropropane  
Concen: 1.620 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.177 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

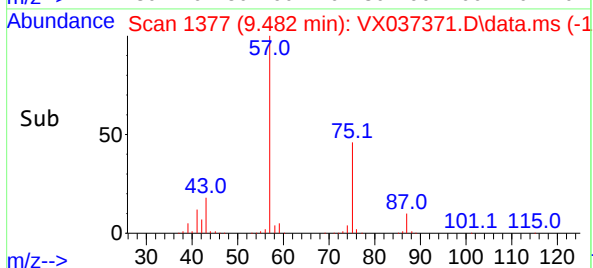
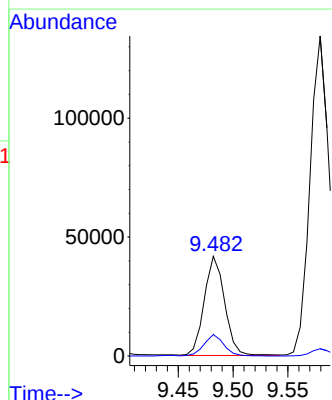
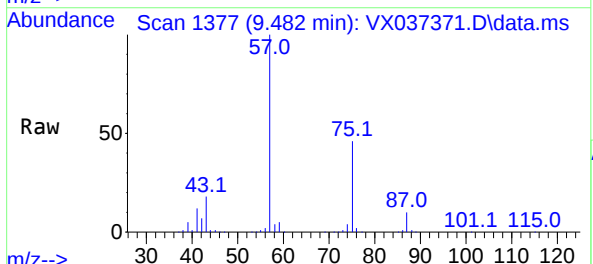
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-309-OK-370-VOC-25

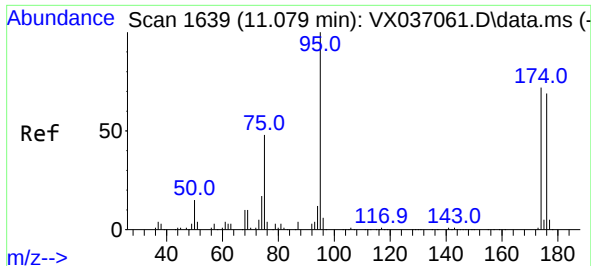
Tgt Ion: 76 Resp: 4849  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#



#59  
2-Hexanone  
Concen: 31.321 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.049 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Tgt Ion: 43 Resp: 54119  
Ion Ratio Lower Upper  
43 100  
58 21.0 26.2 78.5#

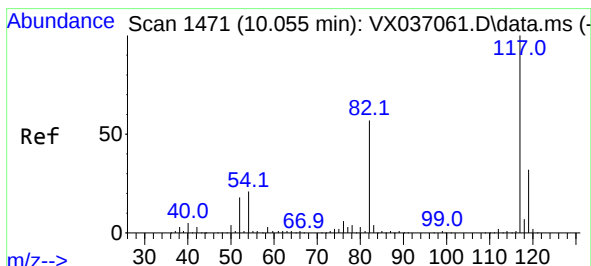
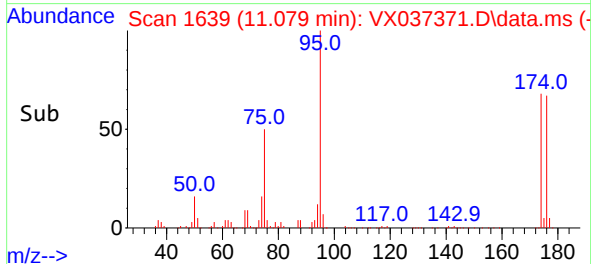
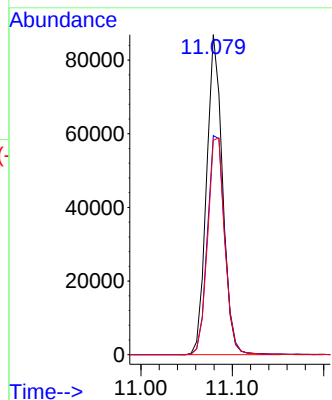
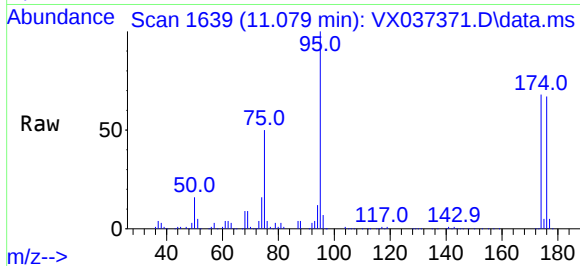




#62  
4-Bromofluorobenzene  
Concen: 45.669 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

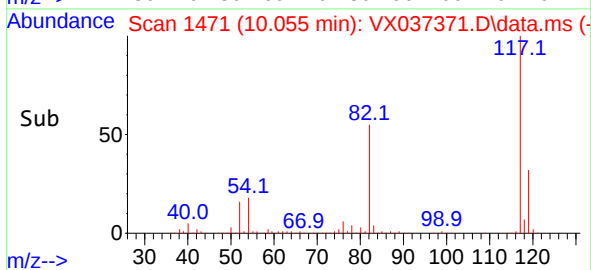
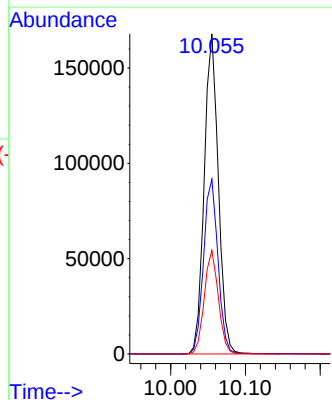
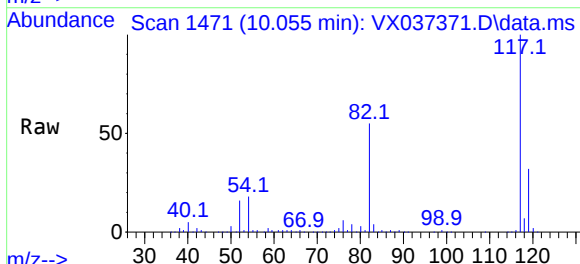
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-309-OK-370-VOC-25

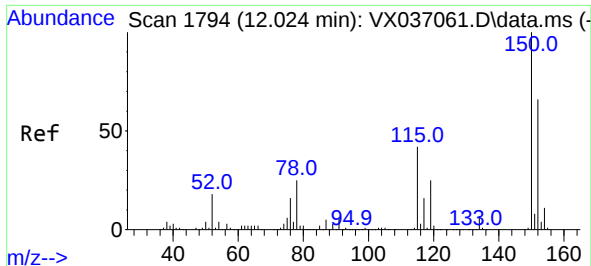
Tgt Ion: 95 Resp: 105445  
Ion Ratio Lower Upper  
95 100  
174 74.7 0.0 135.6  
176 72.6 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Tgt Ion: 117 Resp: 220673  
Ion Ratio Lower Upper  
117 100  
82 54.6 46.2 69.4  
119 32.4 25.5 38.3

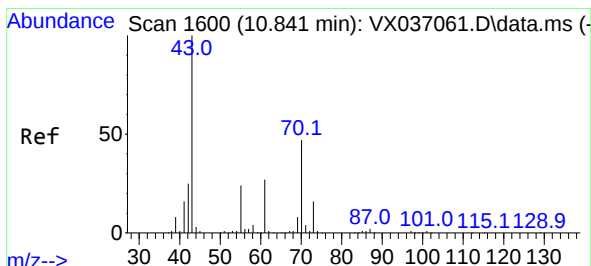
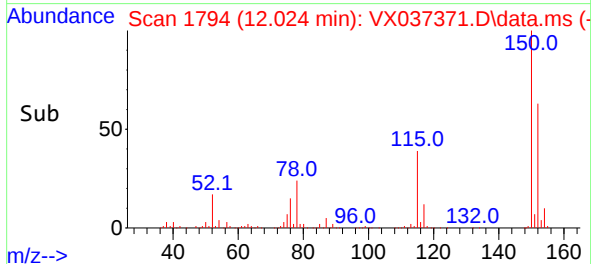
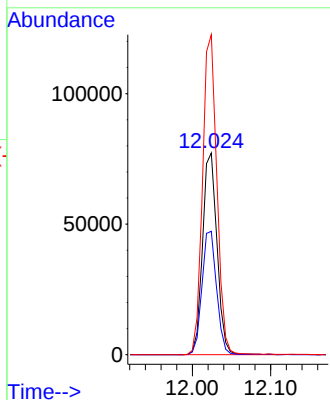
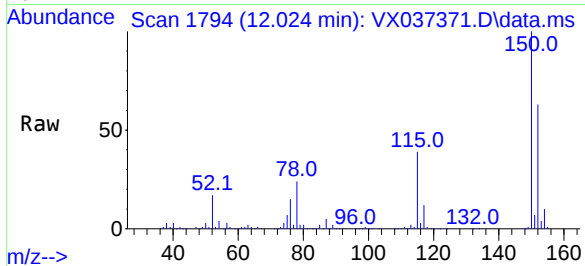




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

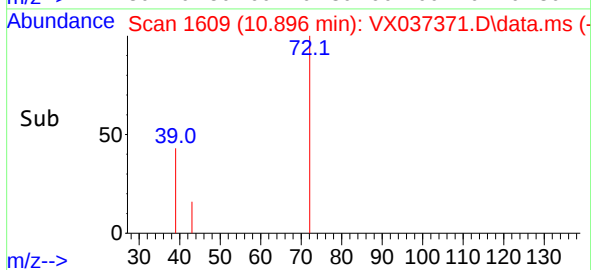
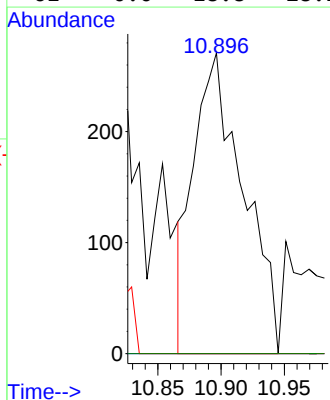
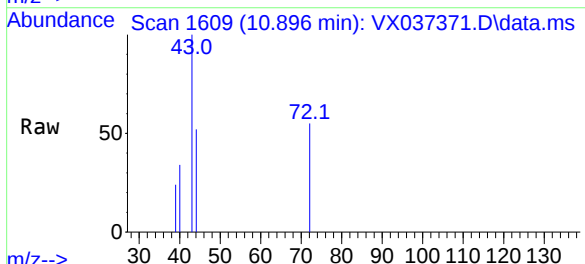
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-309-OK-370-VOC-25

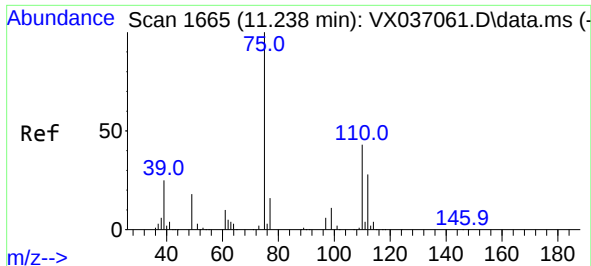
Tgt Ion:152 Resp: 98855  
Ion Ratio Lower Upper  
152 100  
115 62.0 43.3 129.9  
150 157.0 0.0 345.0



#74  
N-ethyl acetate  
Concen: 0.265 ug/l  
RT: 10.896 min Scan# 1609  
Delta R.T. 0.055 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Tgt Ion: 43 Resp: 740  
Ion Ratio Lower Upper  
43 100  
70 0.0 32.9 49.3#  
55 0.0 19.3 28.9#  
61 0.0 18.8 28.2#

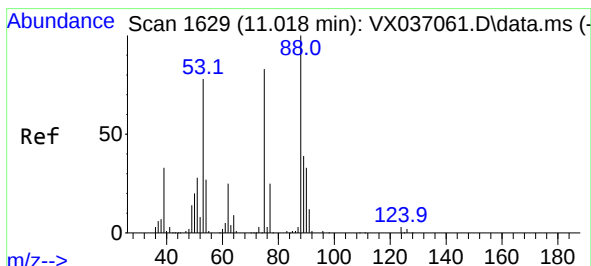
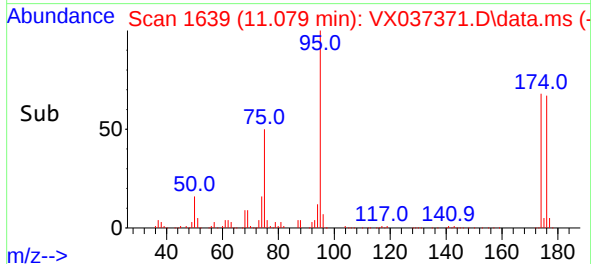
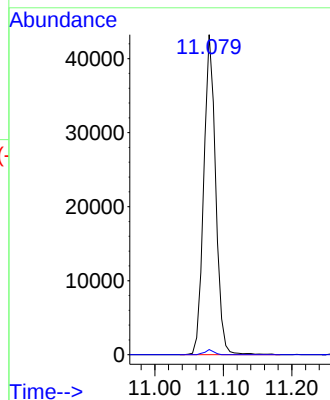
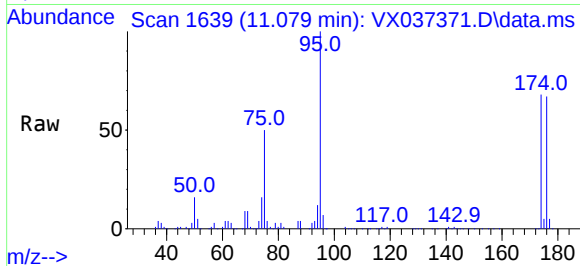




#76  
1,2,3-Trichloropropane  
Concen: 24.898 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-309-OK-370-VOC-25

Tgt Ion: 75 Resp: 52417  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 69.541 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX037371.D  
Acq: 30 Aug 2023 05:35

Tgt Ion: 75 Resp: 52417  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.1 36.9 55.3#

