

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100224\  
 Data File : VX043236.D  
 Acq On : 02 Oct 2024 17:04  
 Operator : JC/MD  
 Sample : P4236-04  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP4

Quant Time: Oct 03 02:35:58 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 02 16:50:57 2024  
 Response via : Initial Calibration

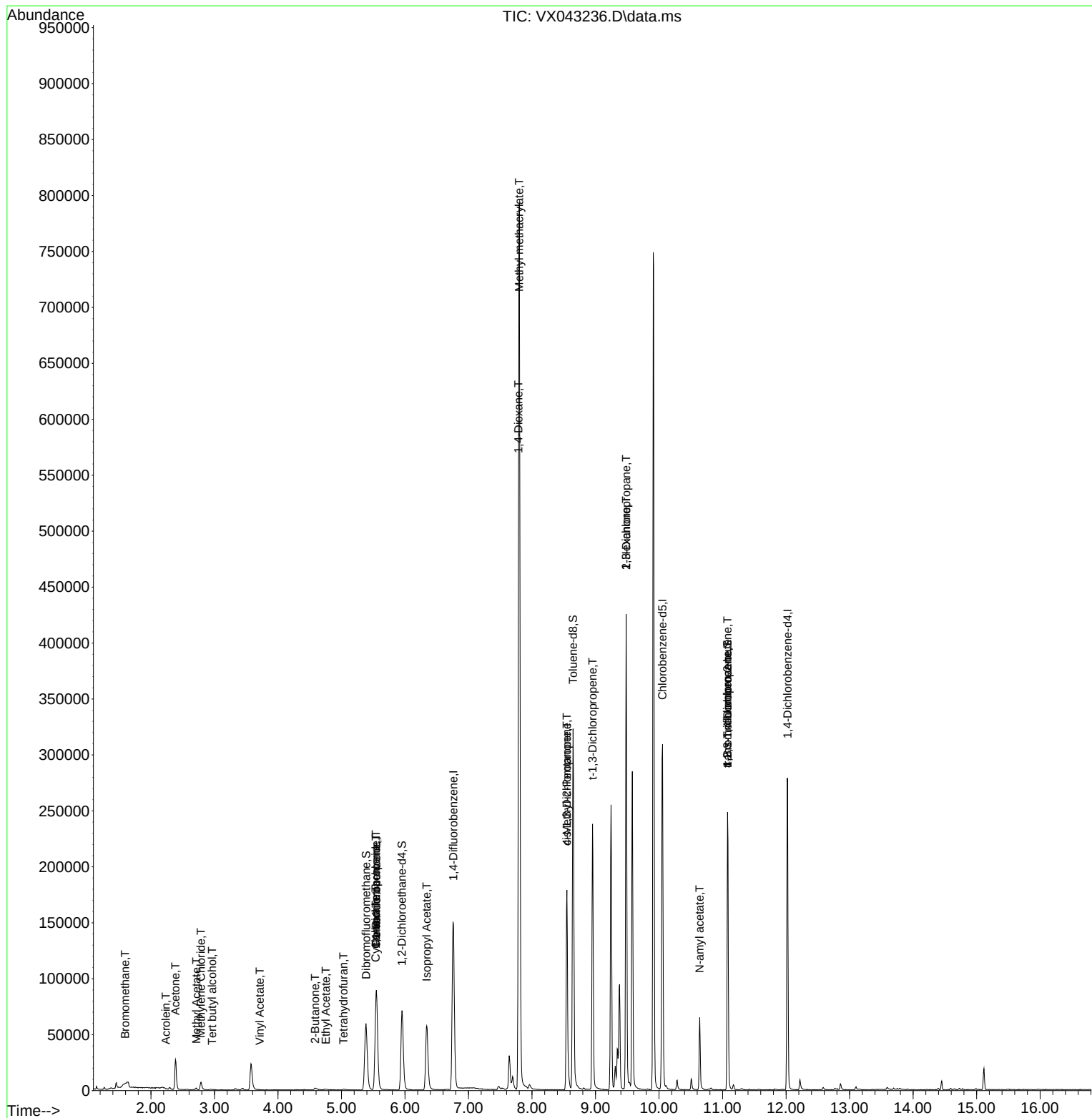
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 81265    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 157243   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 135144   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 56917    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 72640    | 54.733   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 109.460% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 52371    | 48.294   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 96.580%  |          |
| 50) Toluene-d8                | 8.647  | 98    | 188998   | 50.292   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 100.580% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 66514    | 48.719   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 97.440%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 5) Bromomethane               | 1.593  | 94    | 92       | 0.231    | ug/l #     | 2        |
| 11) Tert butyl alcohol        | 2.965  | 59    | 142      | 0.562    | ug/l #     | 71       |
| 13) Acrolein                  | 2.233  | 56    | 151      | 0.633    | ug/l #     | 1        |
| 16) Acetone                   | 2.386  | 43    | 30858    | 55.676   | ug/l       | 100      |
| 18) Methyl Acetate            | 2.715  | 43    | 2018     | 1.451    | ug/l       | 92       |
| 20) Methylene Chloride        | 2.788  | 84    | 3424     | 3.351    | ug/l       | 97       |
| 23) Vinyl Acetate             | 3.715  | 43    | 48       | 6.353    | ug/l #     | 71       |
| 25) 2-Butanone                | 4.586  | 43    | 4009     | 5.275    | ug/l       | 95       |
| 29) Tetrahydrofuran           | 5.032  | 42    | 534      | 1.103    | ug/l #     | 70       |
| 31) Cyclohexane               | 5.537  | 56    | 1837     | 1.283    | ug/l #     | 46       |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 6862     | 5.009    | ug/l #     | 49       |
| 37) Ethyl Acetate             | 4.751  | 43    | 1869     | 1.136    | ug/l #     | 79       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 9174     | 5.657    | ug/l #     | 16       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 82433    | 30.336   | ug/l       | 100      |
| 48) Methyl methacrylate       | 7.799  | 41    | 73513    | 55.137   | ug/l #     | 46       |
| 49) 1,4-Dioxane               | 7.787  | 88    | 101      | 3.897    | ug/l #     | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 66700    | 40.415   | ug/l #     | 47       |
| 53) t-1,3-Dichloropropene     | 8.952  | 75    | 515      | 0.323    | ug/l #     | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 28174    | 16.462   | ug/l #     | 57       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 3508     | 1.991    | ug/l #     | 43       |
| 59) 2-Hexanone                | 9.482  | 43    | 51061    | 40.913   | ug/l #     | 53       |
| 74) N-amyl acetate            | 10.640 | 43    | 15809    | 7.526    | ug/l #     | 53       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 36394    | 28.827   | ug/l #     | 33       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 36394    | 74.710   | ug/l #     | 8        |
| -----                         |        |       |          |          |            |          |

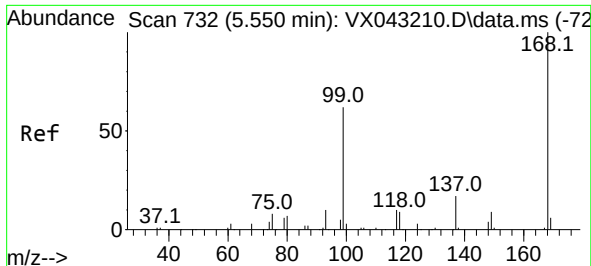
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX100224\  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 02 16:50:57 2024  
Response via : Initial Calibration

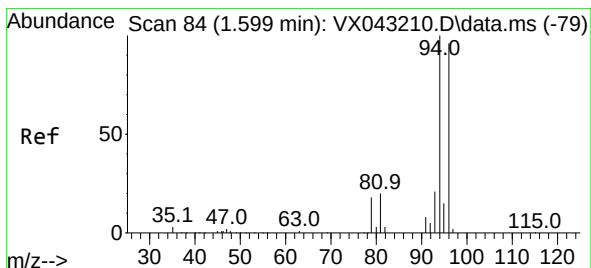
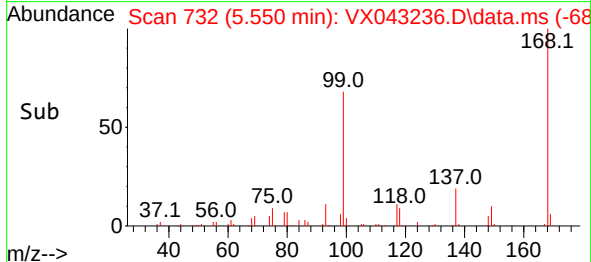
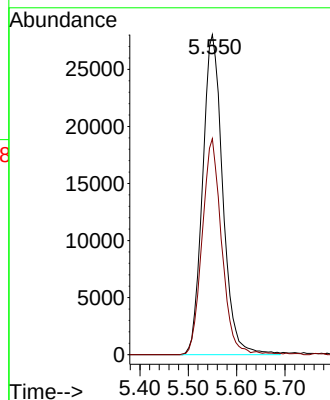
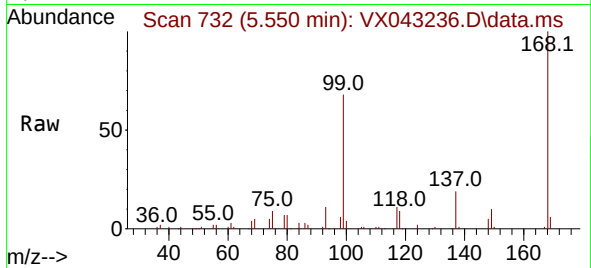




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

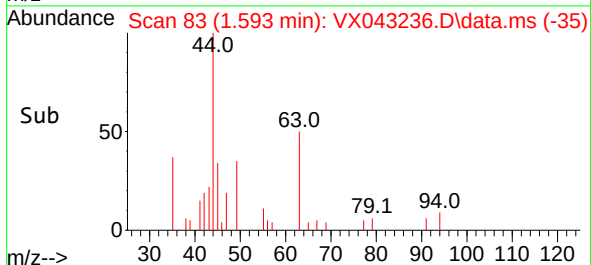
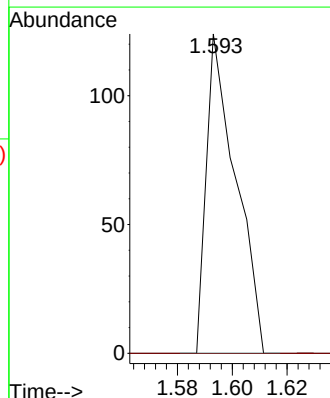
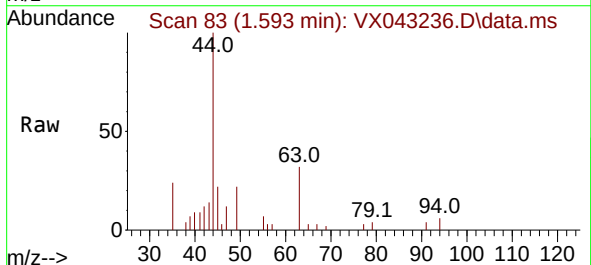
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP4

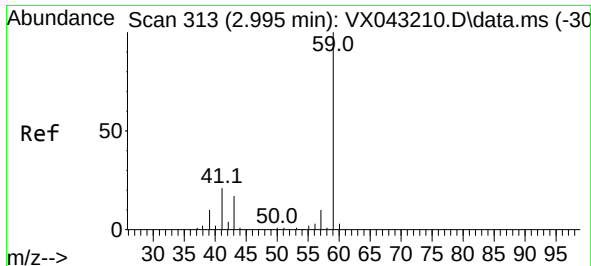
Tgt Ion:168 Resp: 81265  
Ion Ratio Lower Upper  
168 100  
99 67.5 49.7 74.5



#5  
Bromomethane  
Concen: 0.231 ug/l  
RT: 1.593 min Scan# 83  
Delta R.T. -0.006 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Tgt Ion: 94 Resp: 92  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.6 115.0#





#11

Tert butyl alcohol

Concen: 0.562 ug/l

RT: 2.965 min Scan# 30

Delta R.T. -0.031 min

Lab File: VX043236.D

Acq: 02 Oct 2024 17:04

Instrument :

MSVOA\_X

ClientSampleId :

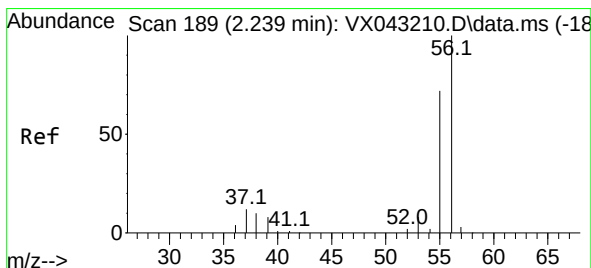
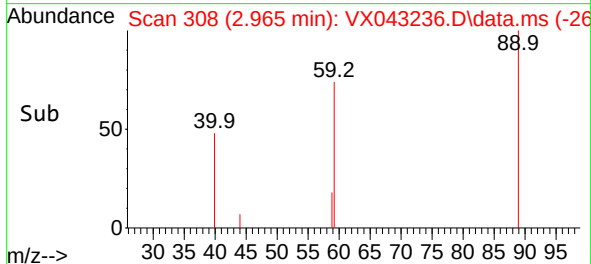
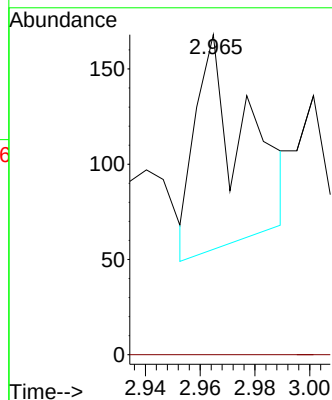
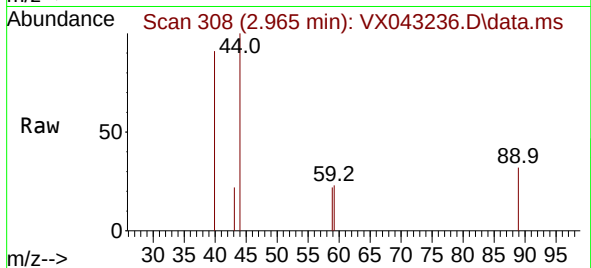
TP4

Tgt Ion: 59 Resp: 142

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



#13

Acrolein

Concen: 0.633 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX043236.D

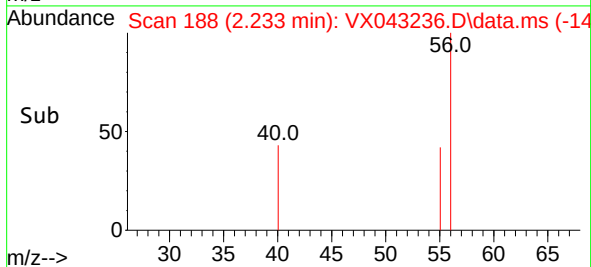
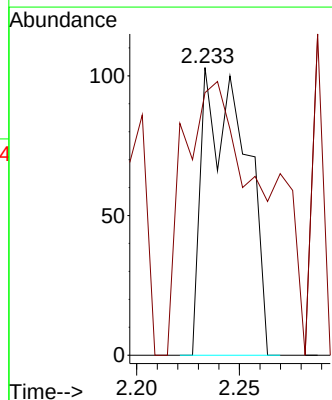
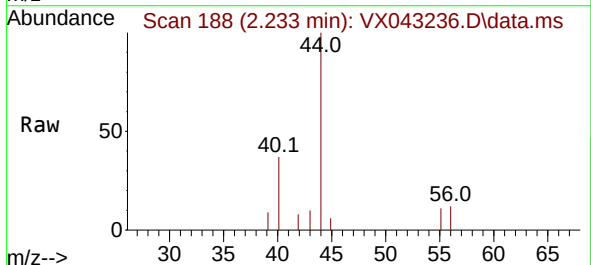
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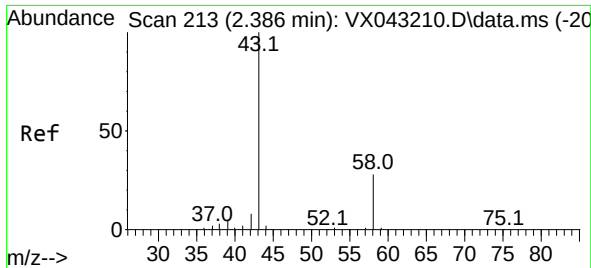
Tgt Ion: 56 Resp: 151

Ion Ratio Lower Upper

56 100

55 176.8 57.4 86.0#

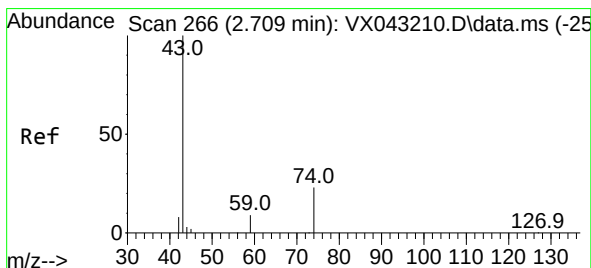
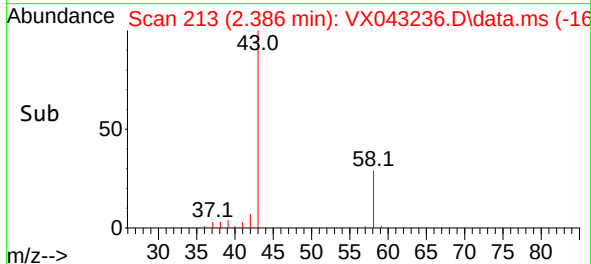
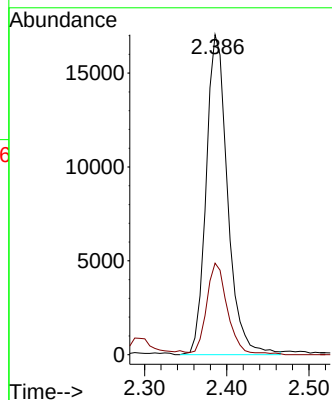
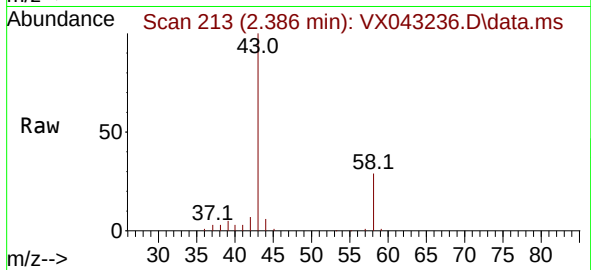




#16  
Acetone  
Concen: 55.676 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

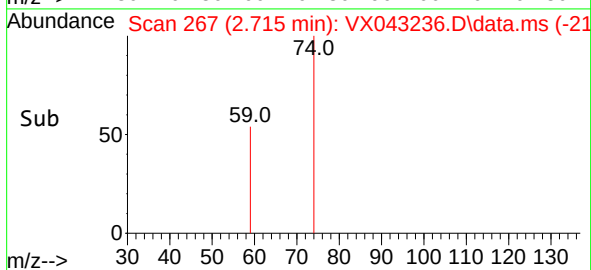
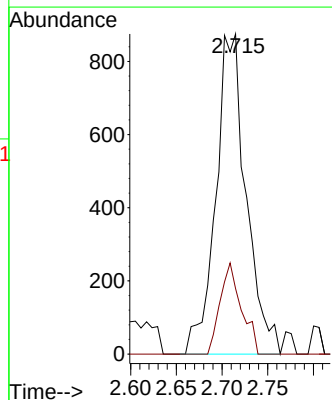
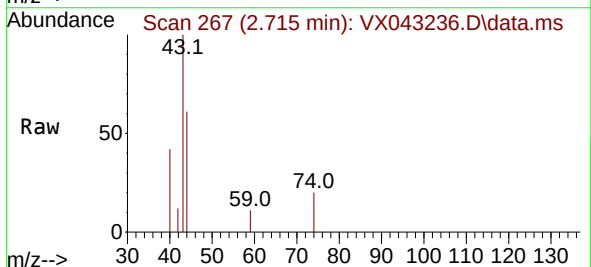
Instrument :  
MSVOA\_X  
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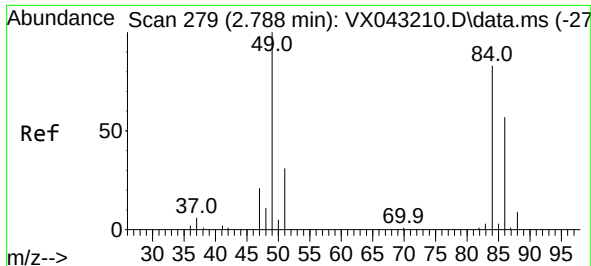
Tgt Ion: 43 Resp: 30858  
Ion Ratio Lower Upper  
43 100  
58 28.3 22.6 33.8



#18  
Methyl Acetate  
Concen: 1.451 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Tgt Ion: 43 Resp: 2018  
Ion Ratio Lower Upper  
43 100  
74 20.0 19.1 28.7

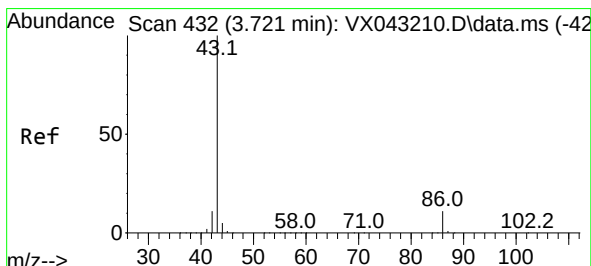
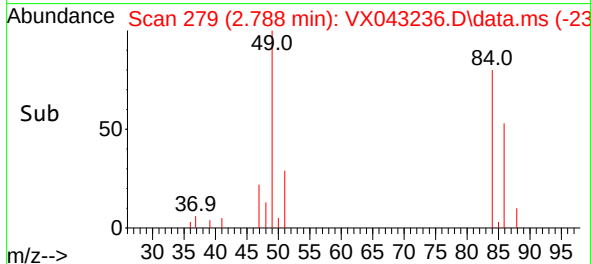
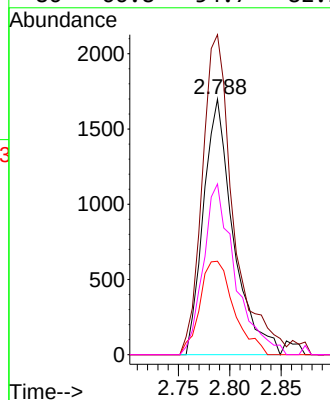
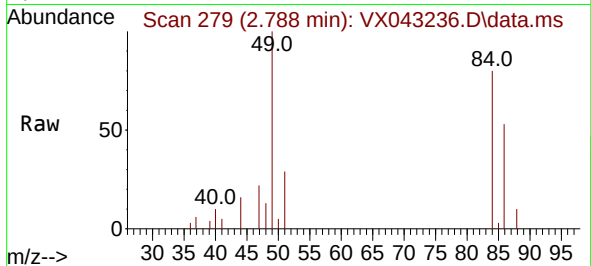




#20  
Methylene Chloride  
Concen: 3.351 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

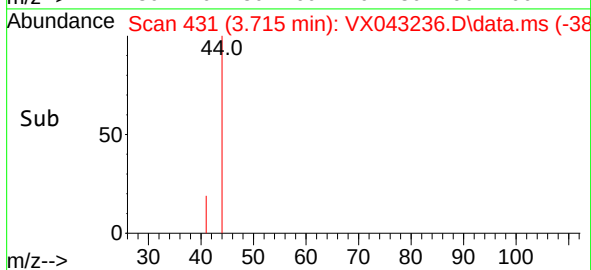
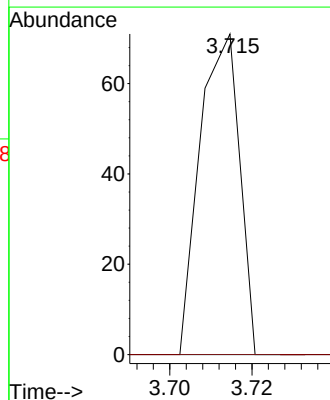
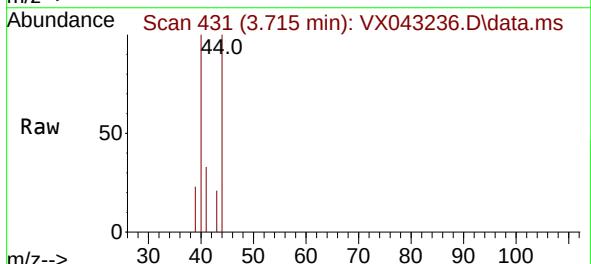
Instrument :  
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ClientSampleId :  
TP4

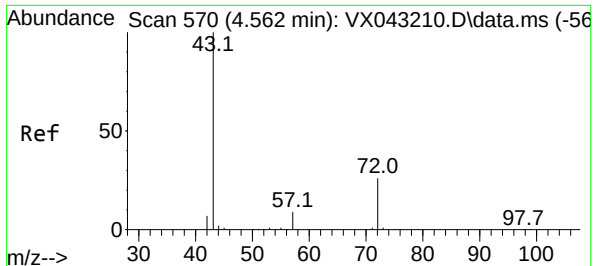
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 3424  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 125.3    | 96.7 145.1  |
| 51 36.6     | 30.4 45.6   |
| 86 66.8     | 54.7 82.1   |



#23  
Vinyl Acetate  
Concen: 6.353 ug/l  
RT: 3.715 min Scan# 431  
Delta R.T. -0.006 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

|             |          |       |  |
|-------------|----------|-------|--|
| Tgt Ion: 43 | Resp: 48 |       |  |
| Ion Ratio   | Lower    | Upper |  |
| 43 100      |          |       |  |
| 86 0.0      | 8.8      | 13.2# |  |

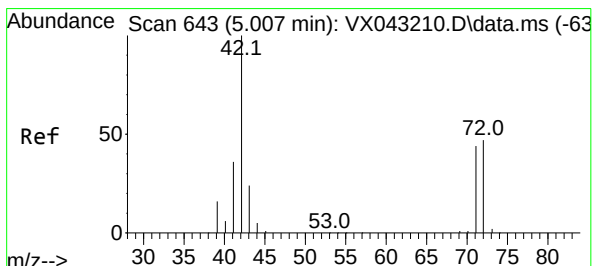
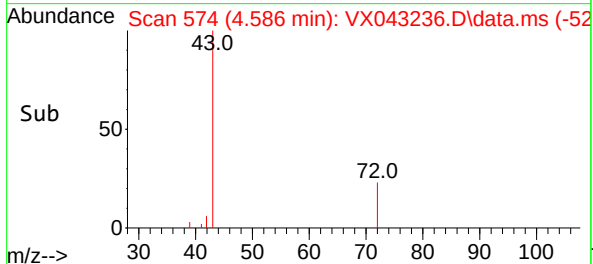
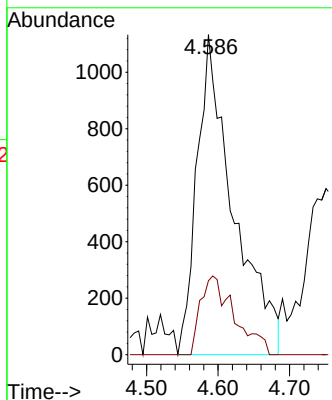
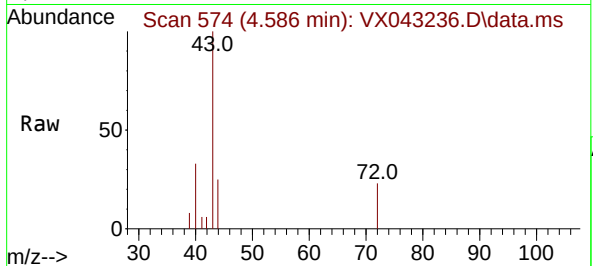




#25  
2-Butanone  
Concen: 5.275 ug/l  
RT: 4.586 min Scan# 51  
Delta R.T. 0.024 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

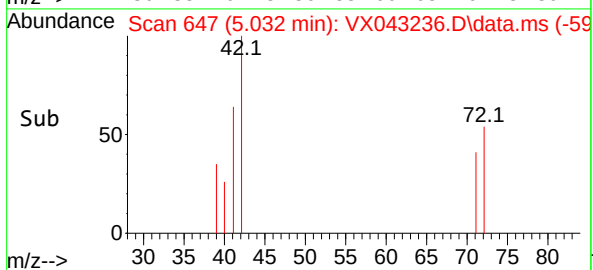
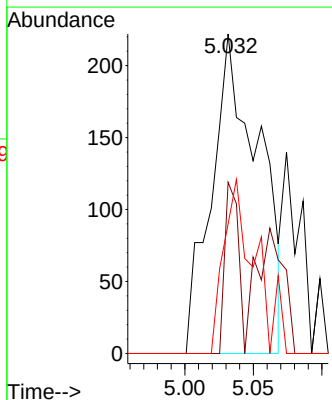
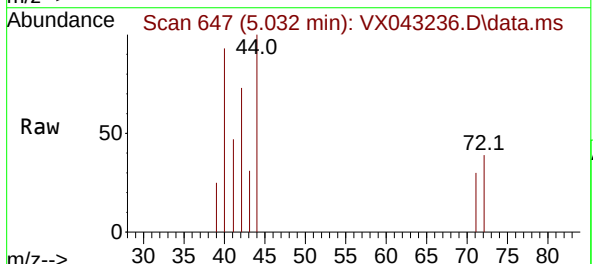
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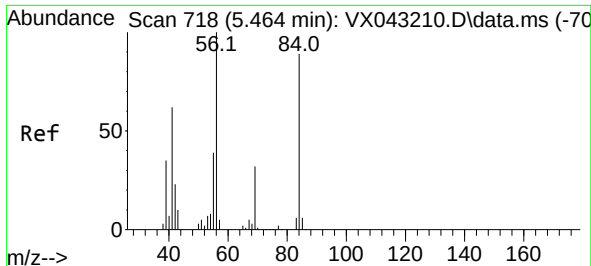
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Ion Ratio Lower Upper  
43 100  
72 23.1 20.6 31.0



#29  
Tetrahydrofuran  
Concen: 1.103 ug/l  
RT: 5.032 min Scan# 647  
Delta R.T. 0.024 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Tgt Ion: 42 Resp: 534  
Ion Ratio Lower Upper  
42 100  
72 15.4 37.7 56.5#  
71 36.3 34.6 52.0

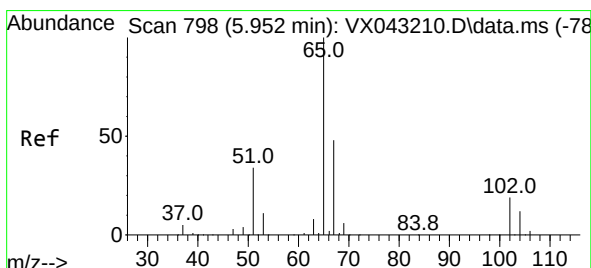
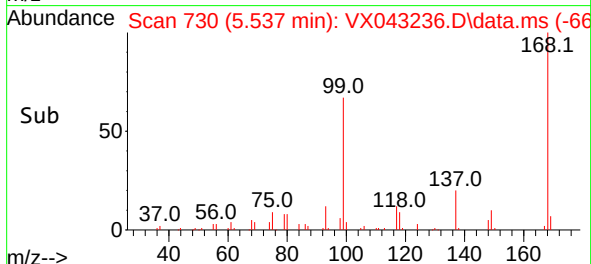
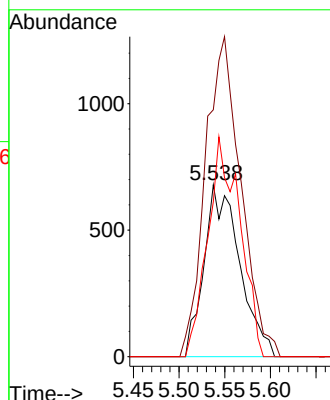
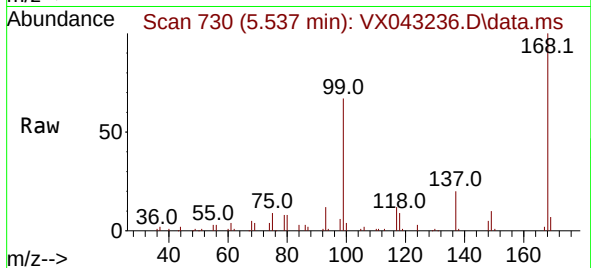




#31  
Cyclohexane  
Concen: 1.283 ug/l  
RT: 5.537 min Scan# 718  
Delta R.T. 0.073 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

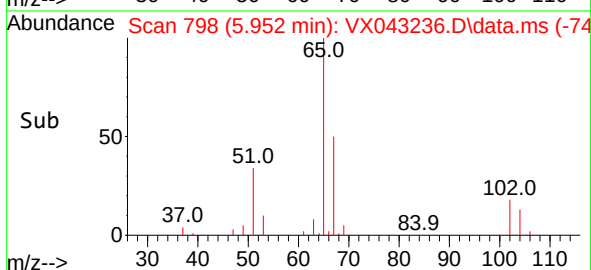
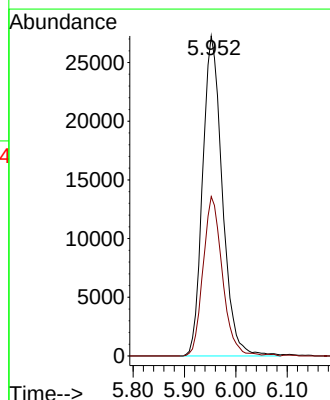
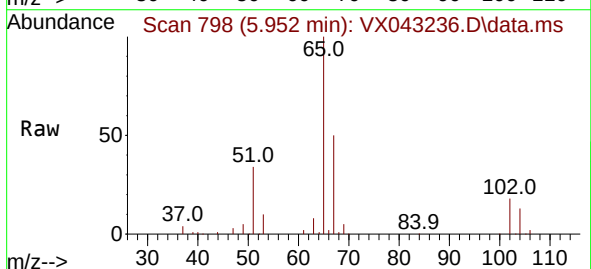
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP4

Tgt Ion: 56 Resp: 1837  
Ion Ratio Lower Upper  
56 100  
69 143.7 25.8 38.6#  
84 90.1 71.1 106.7

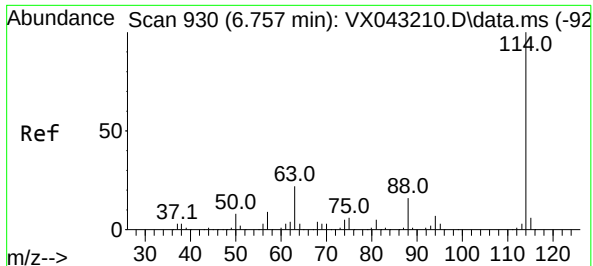


#33  
1,2-Dichloroethane-d4  
Concen: 54.733 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.000 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Tgt Ion: 65 Resp: 72640  
Ion Ratio Lower Upper  
65 100  
67 48.7 0.0 99.0







#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX043236.D

Acq: 02 Oct 2024 17:04

Instrument :

MSVOA\_X

ClientSampleId :

TP4

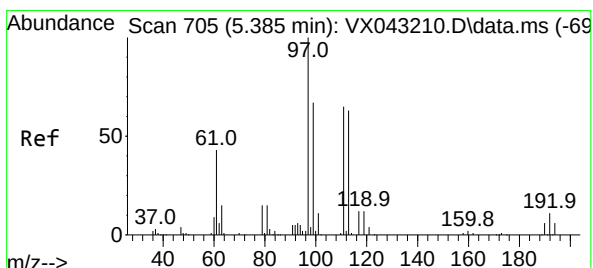
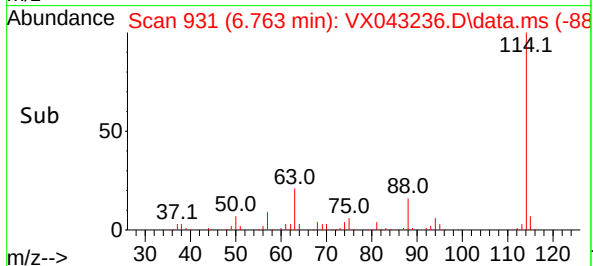
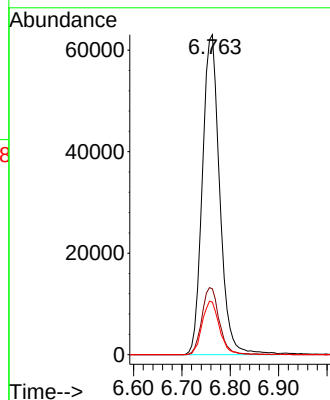
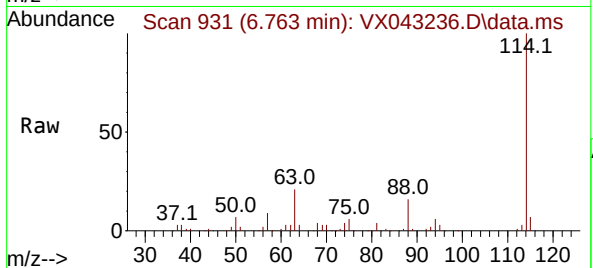
Tgt Ion:114 Resp: 157243

Ion Ratio Lower Upper

114 100

63 20.6 0.0 43.0

88 16.4 0.0 33.0



#35

Dibromofluoromethane

Concen: 48.294 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX043236.D

Acq: 02 Oct 2024 17:04

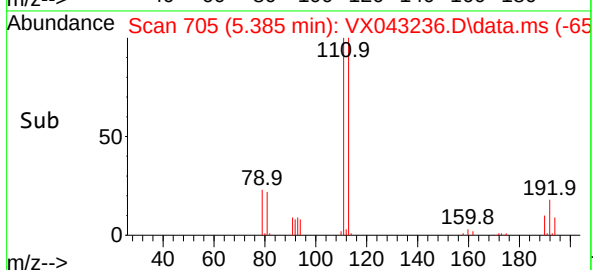
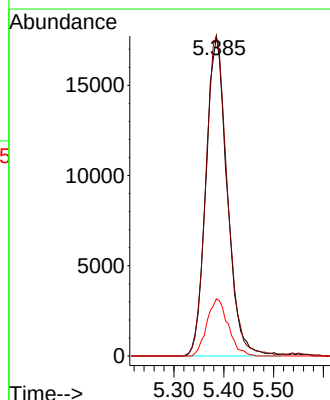
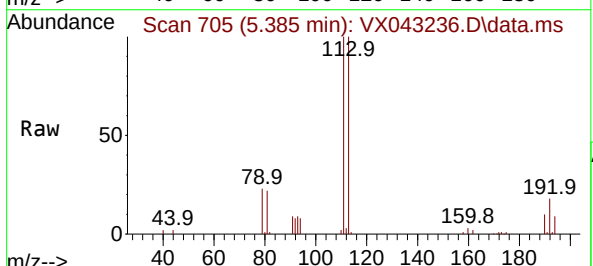
Tgt Ion:113 Resp: 52371

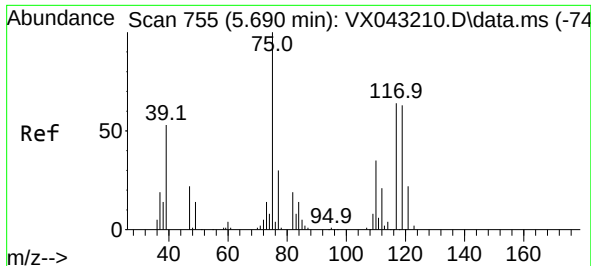
Ion Ratio Lower Upper

113 100

111 101.6 83.4 125.0

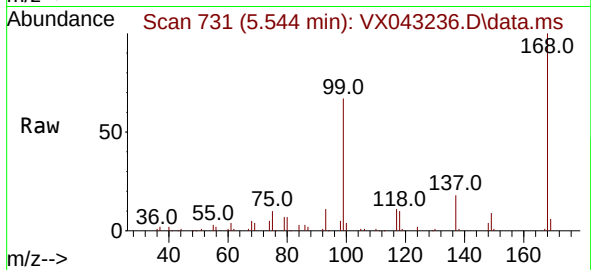
192 17.9 14.1 21.1



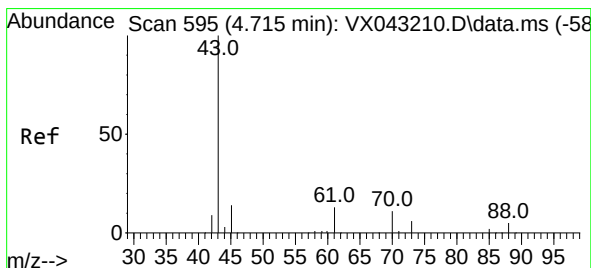
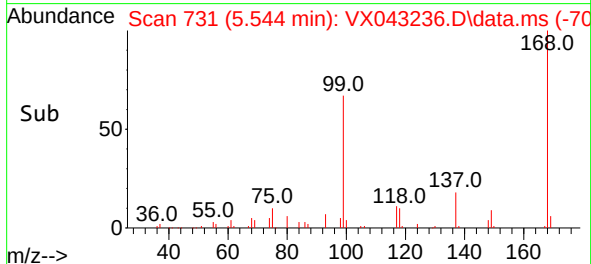
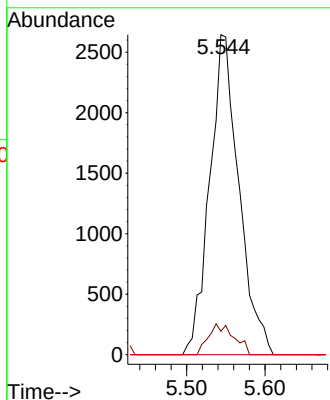


#36  
1,1-Dichloropropene  
Concen: 5.009 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
TP4

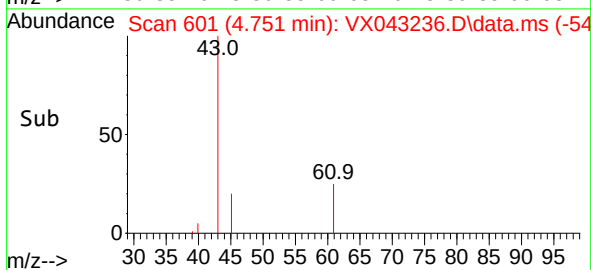
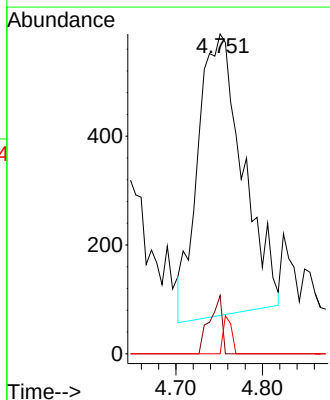
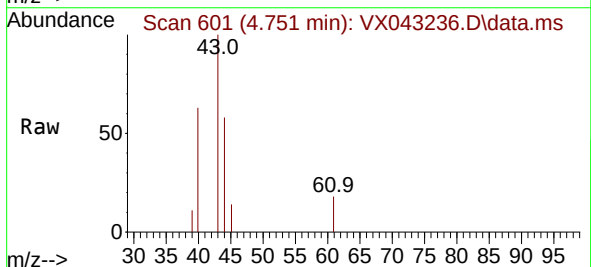


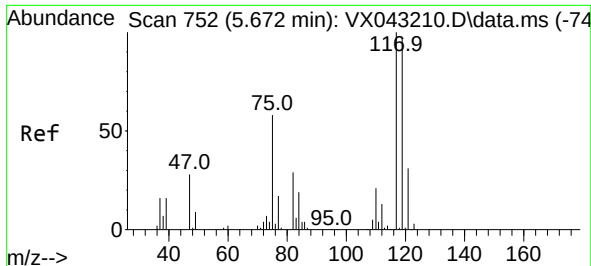
Tgt Ion: 75 Resp: 6862  
Ion Ratio Lower Upper  
75 100  
110 8.5 17.8 53.3#  
77 0.0 24.9 37.3#



#37  
Ethyl Acetate  
Concen: 1.136 ug/l  
RT: 4.751 min Scan# 601  
Delta R.T. 0.036 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Tgt Ion: 43 Resp: 1869  
Ion Ratio Lower Upper  
43 100  
61 5.8 11.0 16.4#  
70 2.5 8.9 13.3#

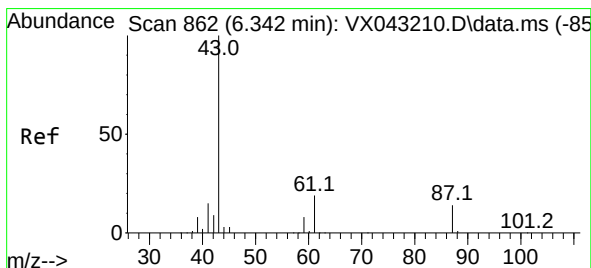
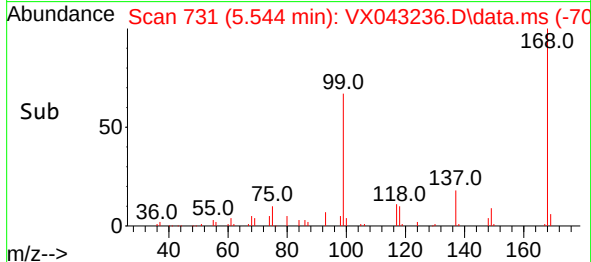
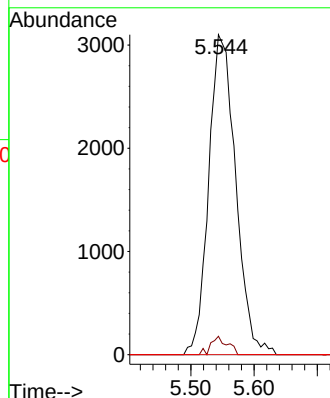
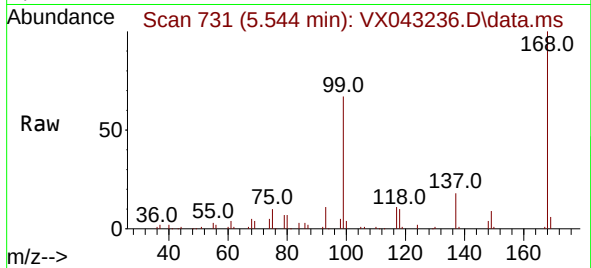




#38  
Carbon Tetrachloride  
Concen: 5.657 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

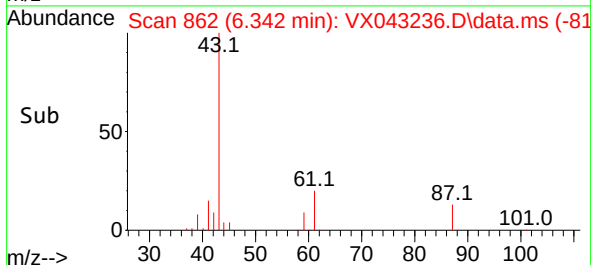
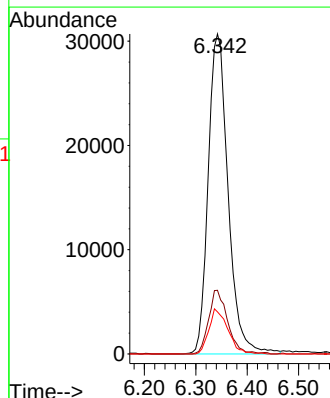
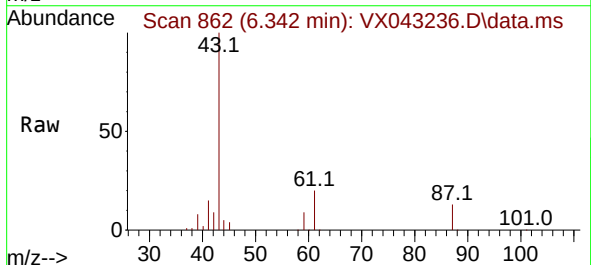
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP4

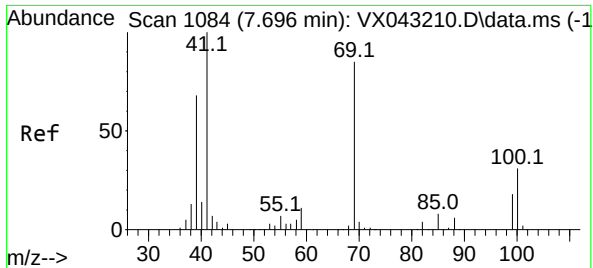
Tgt Ion:117 Resp: 9174  
Ion Ratio Lower Upper  
117 100  
119 5.7 77.7 116.5#  
121 0.0 24.3 36.5#



#43  
Isopropyl Acetate  
Concen: 30.336 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. -0.000 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Tgt Ion: 43 Resp: 82433  
Ion Ratio Lower Upper  
43 100  
61 18.9 15.1 22.7  
87 13.5 10.8 16.2

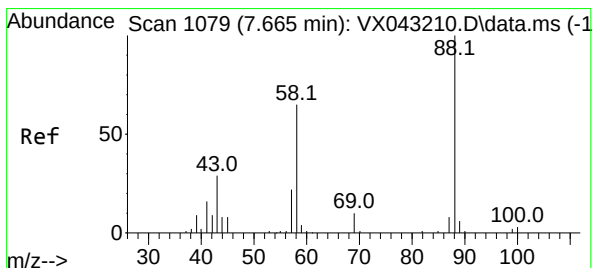
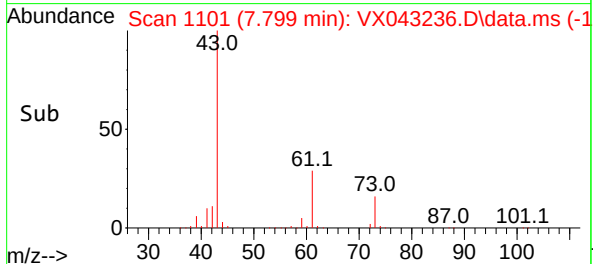
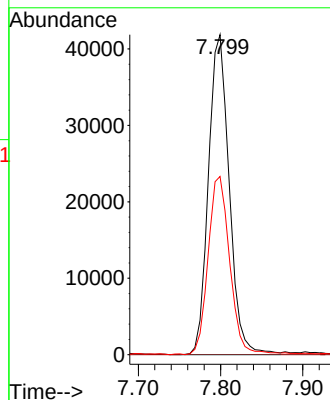
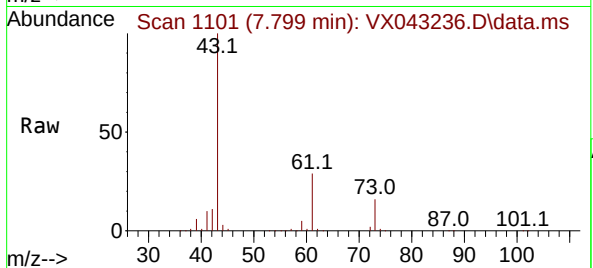




#48  
Methyl methacrylate  
Concen: 55.137 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.104 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

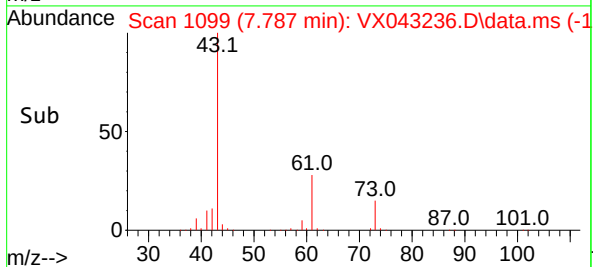
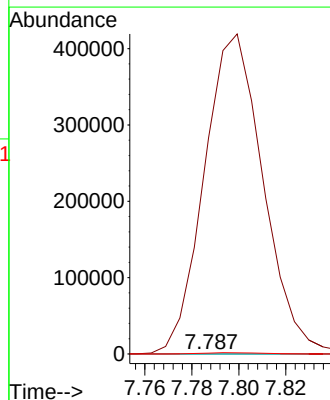
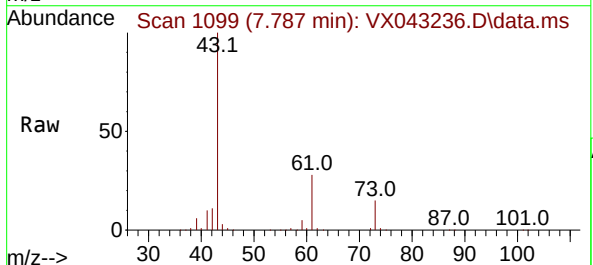
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP4

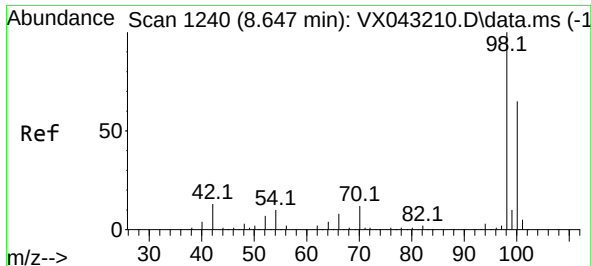
Tgt Ion: 41 Resp: 73513  
Ion Ratio Lower Upper  
41 100  
69 0.0 64.1 96.1#  
39 58.3 52.8 79.2



#49  
1,4-Dioxane  
Concen: 3.897 ug/l  
RT: 7.787 min Scan# 1099  
Delta R.T. 0.122 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Tgt Ion: 88 Resp: 101  
Ion Ratio Lower Upper  
88 100  
43 737067.3 29.5 44.3#  
58 2878.2 55.2 82.8#

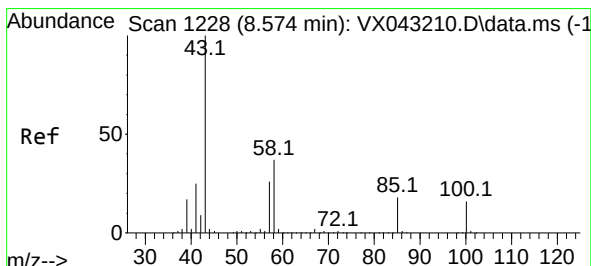
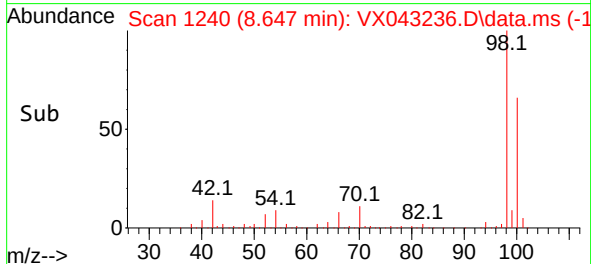
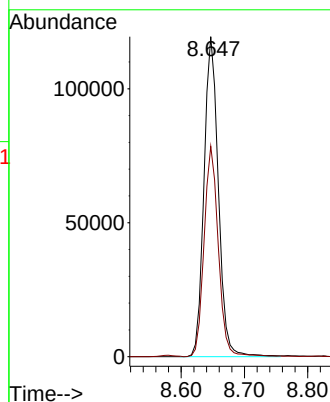
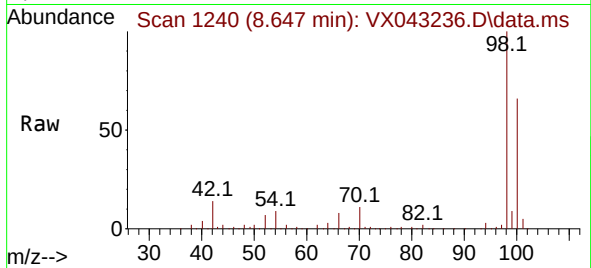




#50  
Toluene-d8  
Concen: 50.292 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

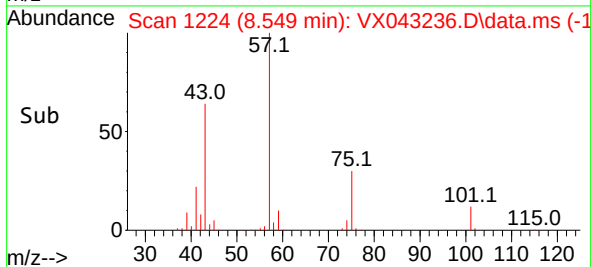
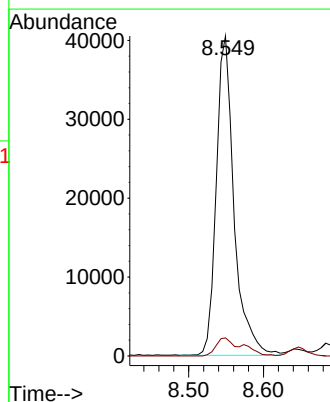
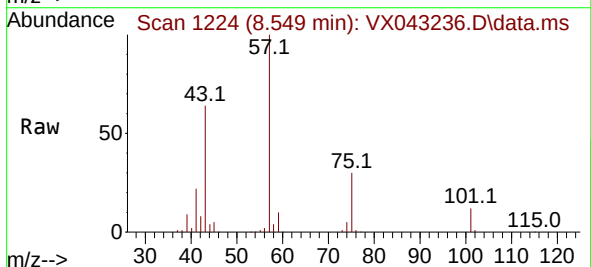
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP4

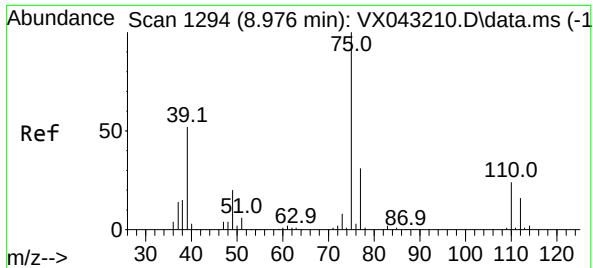
Tgt Ion: 98 Resp: 188998  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.4 78.6



#51  
4-Methyl-2-Pentanone  
Concen: 40.415 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Tgt Ion: 43 Resp: 66700  
Ion Ratio Lower Upper  
43 100  
58 5.8 30.0 45.0#

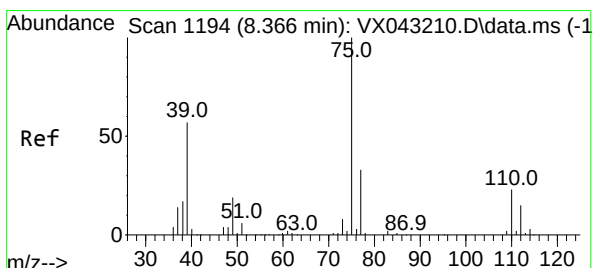
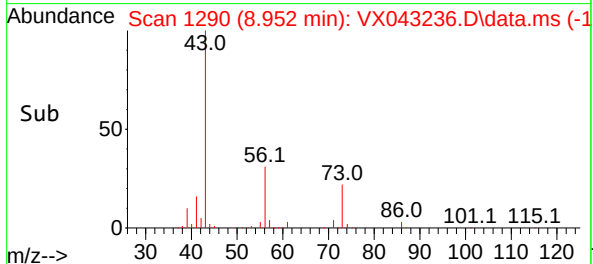
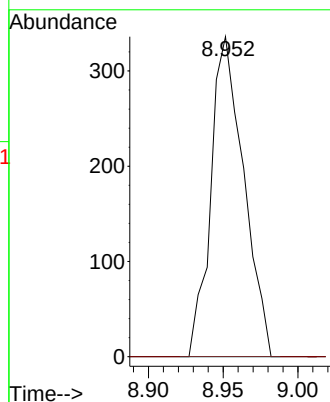
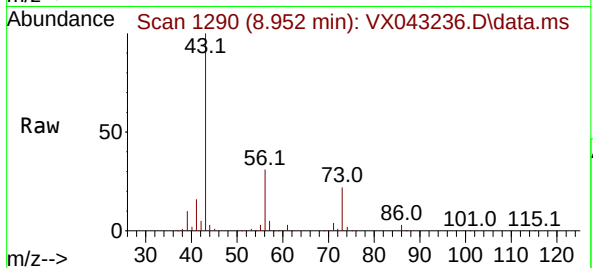




#53  
 t-1,3-Dichloropropene  
 Concen: 0.323 ug/l  
 RT: 8.952 min Scan# 11  
 Delta R.T. -0.024 min  
 Lab File: VX043236.D  
 Acq: 02 Oct 2024 17:04

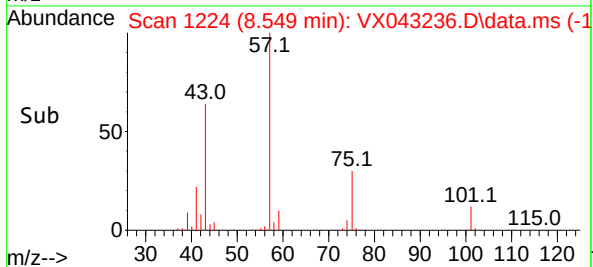
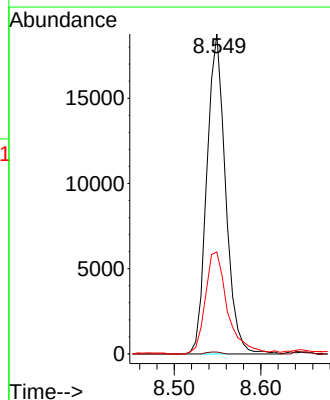
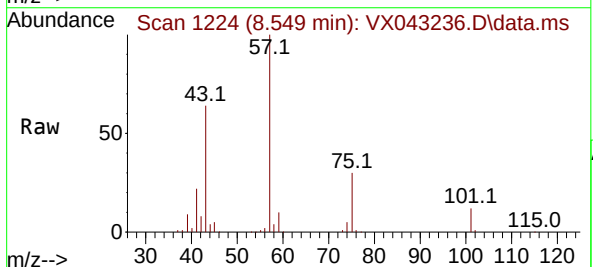
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP4

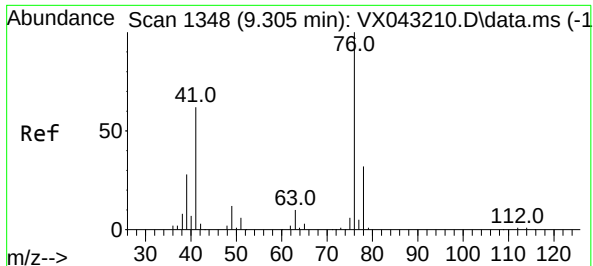
Tgt Ion: 75 Resp: 515  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.1 37.7#



#54  
 cis-1,3-Dichloropropene  
 Concen: 16.462 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.183 min  
 Lab File: VX043236.D  
 Acq: 02 Oct 2024 17:04

Tgt Ion: 75 Resp: 28174  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 26.0 39.0#  
 39 31.9 45.8 68.8#





#57

1,3-Dichloropropane

Concen: 1.991 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX043236.D

Acq: 02 Oct 2024 17:04

Instrument :

MSVOA\_X

ClientSampleId :

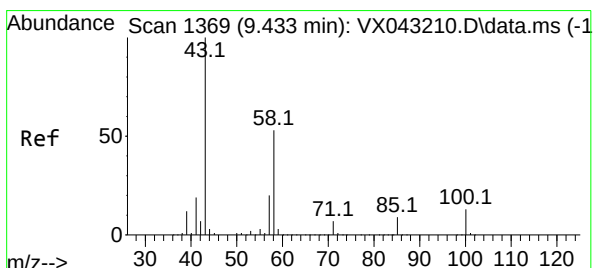
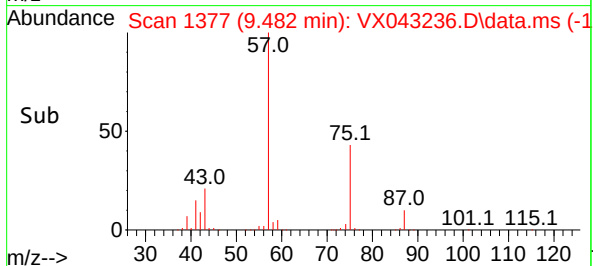
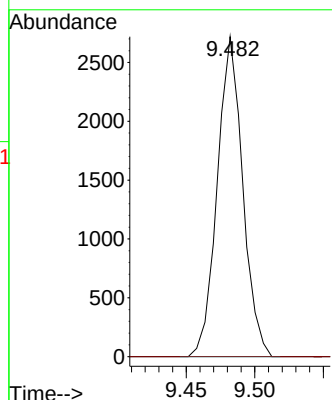
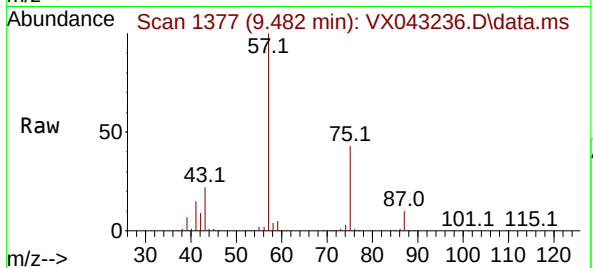
TP4

Tgt Ion: 76 Resp: 3508

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



#59

2-Hexanone

Concen: 40.913 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX043236.D

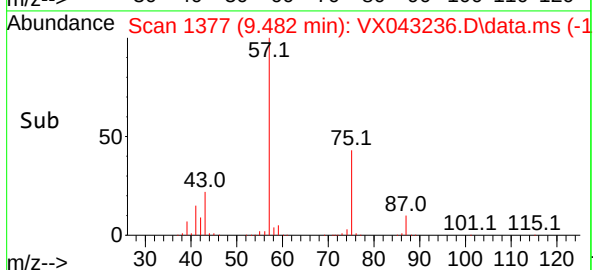
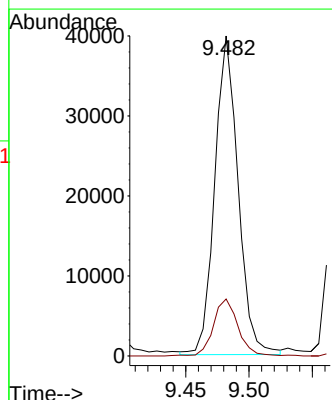
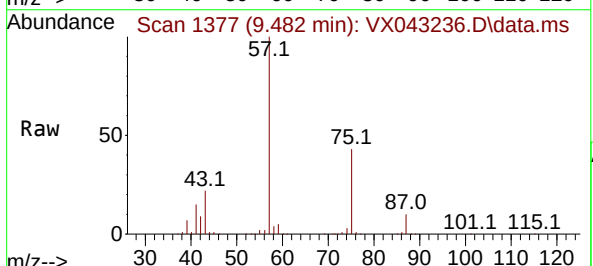
Acq: 02 Oct 2024 17:04

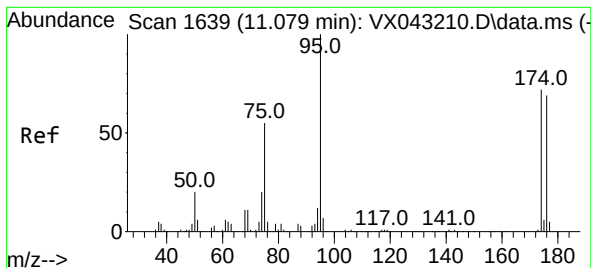
Tgt Ion: 43 Resp: 51061

Ion Ratio Lower Upper

43 100

58 19.0 26.1 78.3#

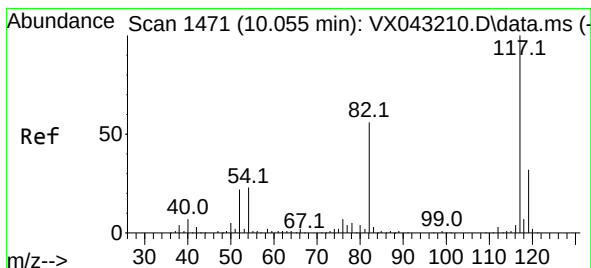
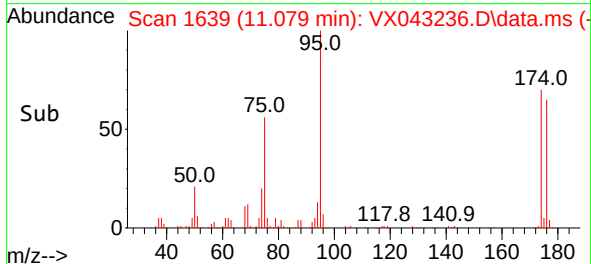
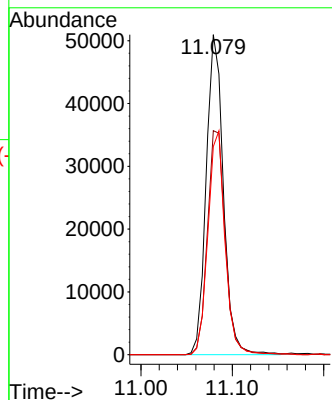
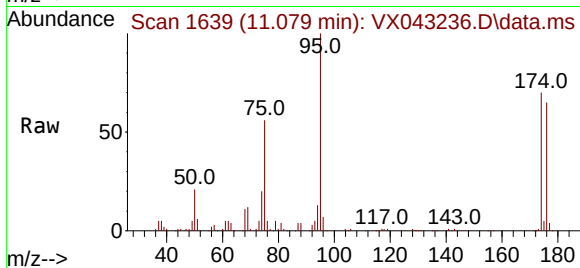




#62  
4-Bromofluorobenzene  
Concen: 48.719 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

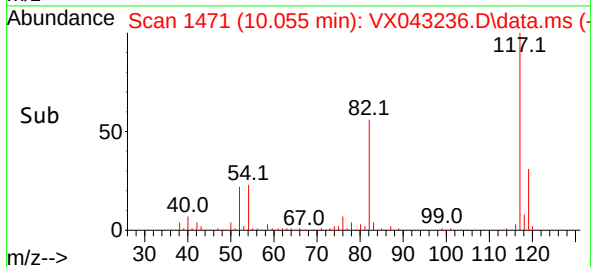
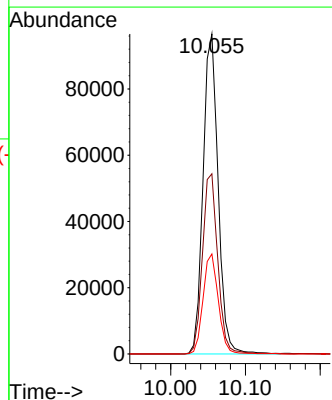
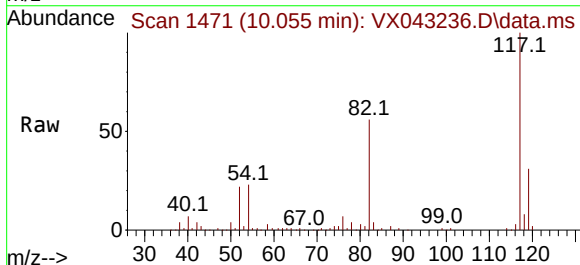
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP4

Tgt Ion: 95 Resp: 66514  
Ion Ratio Lower Upper  
95 100  
174 73.0 0.0 145.0  
176 69.8 0.0 143.0

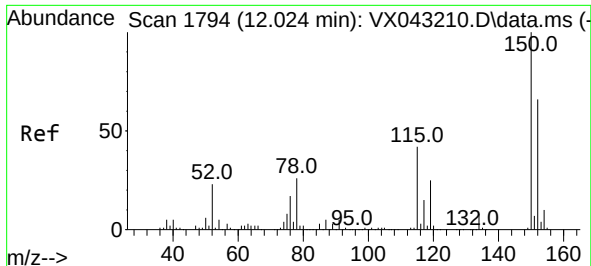


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Tgt Ion: 117 Resp: 135144  
Ion Ratio Lower Upper  
117 100  
82 56.3 45.0 67.6  
119 31.2 25.3 37.9



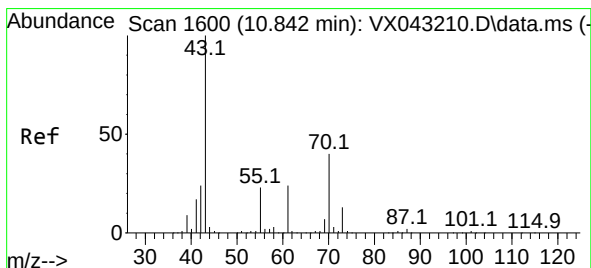
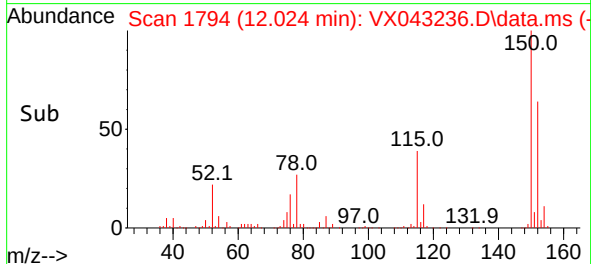
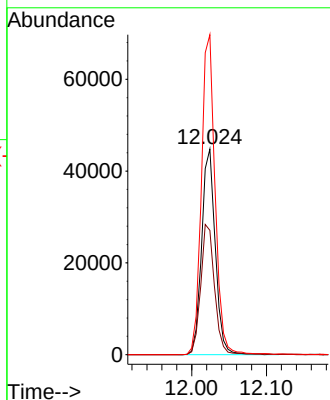
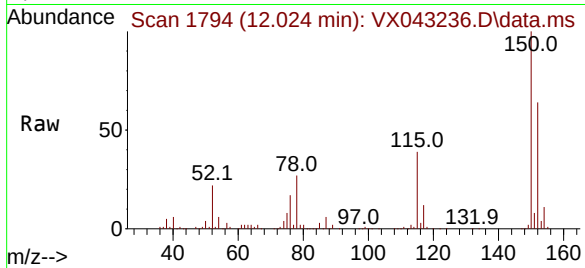




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

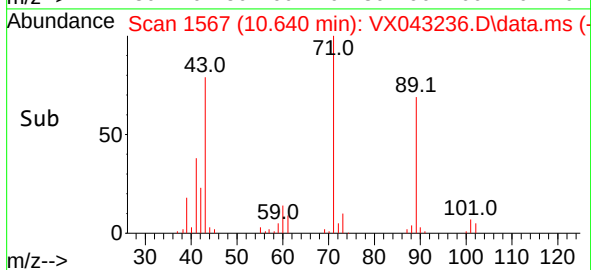
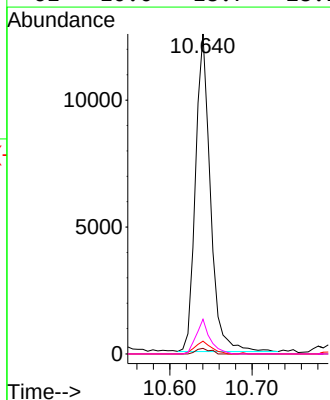
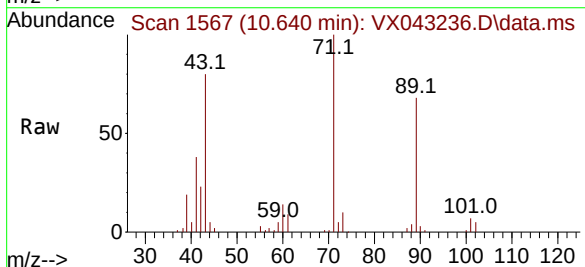
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP4

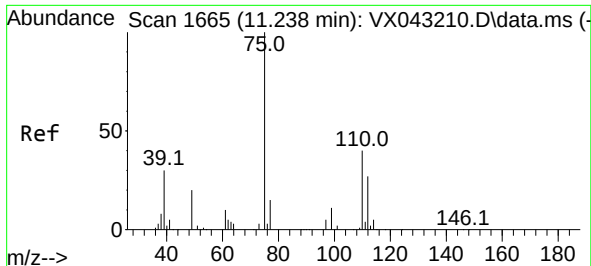
Tgt Ion:152 Resp: 56917  
Ion Ratio Lower Upper  
152 100  
115 64.2 44.1 132.3  
150 156.0 0.0 347.4



#74  
N-ethyl acetate  
Concen: 7.526 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.201 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Tgt Ion: 43 Resp: 15809  
Ion Ratio Lower Upper  
43 100  
70 1.7 33.1 49.7#  
55 4.4 18.6 27.8#  
61 10.0 18.7 28.1#

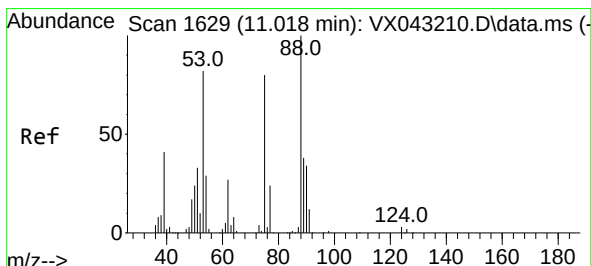
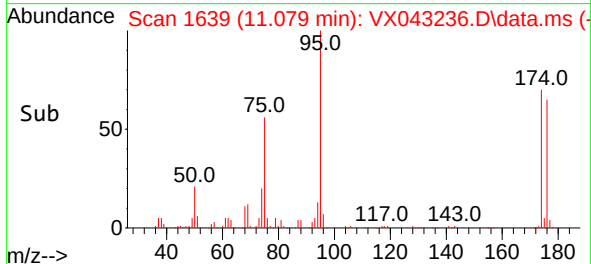
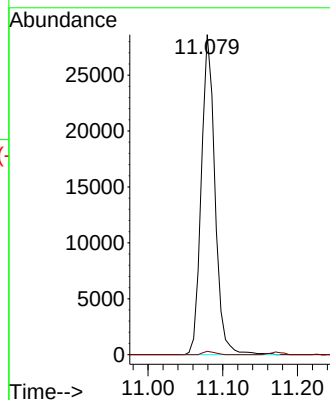
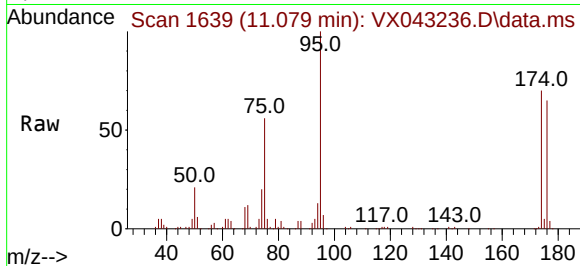




#76  
1,2,3-Trichloropropane  
Concen: 28.827 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
TP4

Tgt Ion: 75 Resp: 36394  
Ion Ratio Lower Upper  
75 100  
77 0.9 22.0 66.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 74.710 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX043236.D  
Acq: 02 Oct 2024 17:04

Tgt Ion: 75 Resp: 36394  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.9 125.9#  
89 0.1 38.6 58.0#

