

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121121\  
 Data File : VX025743.D  
 Acq On : 11 Dec 2021 15:12  
 Operator : JC/MD  
 Sample : M4997-08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EW5R3

Quant Time: Dec 12 06:35:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXLM112221WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 11 00:48:07 2021  
 Response via : Initial Calibration

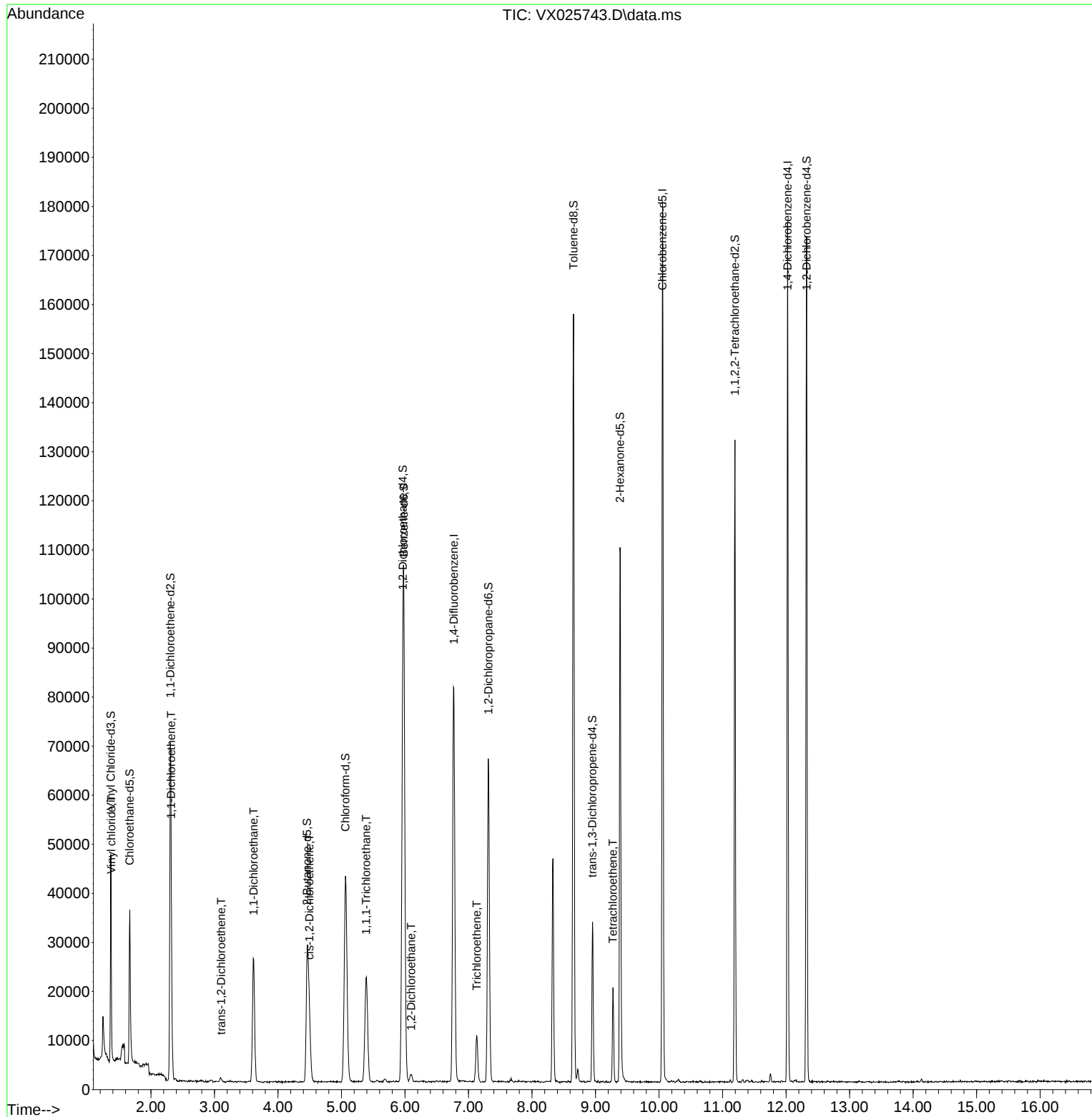
| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.769   | 114   | 84565    | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.055  | 117   | 78030    | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.024  | 152   | 34083    | 50.000   | ug/L   | 0.00     |
|                               |         |       |          |          |        |          |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.368   | 65    | 23687    | 41.044   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 82.080%  |
| 7) Chloroethane-d5            | 1.666   | 69    | 21734    | 45.629   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 91.260%  |
| 11) 1,1-Dichloroethene-d2     | 2.306   | 63    | 37255    | 40.486   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 80.980%  |
| 21) 2-Butanone-d5             | 4.459   | 46    | 45550    | 106.028  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 106.030% |
| 24) Chloroform-d              | 5.062   | 84    | 52279    | 51.832   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 103.660% |
| 26) 1,2-Dichloroethane-d4     | 5.964   | 65    | 35202    | 55.992   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 111.980% |
| 32) Benzene-d6                | 5.983   | 84    | 102278   | 49.457   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 98.920%  |
| 36) 1,2-Dichloropropane-d6    | 7.312   | 67    | 31507    | 49.207   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 98.420%  |
| 41) Toluene-d8                | 8.653   | 98    | 93841    | 48.074   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 96.140%  |
| 43) trans-1,3-Dichloroprop... | 8.952   | 79    | 15286    | 47.485   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 94.960%  |
| 47) 2-Hexanone-d5             | 9.384   | 63    | 31689    | 95.078   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 95.080%  |
| 56) 1,1,2,2-Tetrachloroeth... | 11.195  | 84    | 48030    | 53.077   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 106.160% |
| 66) 1,2-Dichlorobenzene-d4    | 12.323  | 152   | 33502    | 50.116   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 100.240% |
|                               |         |       |          |          |        |          |
| Target Compounds              |         |       |          |          |        | Qvalue   |
| 5) Vinyl chloride             | 1.374   | 62    | 689      | 1.152    | ug/L # | 31       |
| 12) 1,1-Dichloroethene        | 2.319   | 96    | 4311     | 9.493    | ug/L # | 1        |
| 17) trans-1,2-Dichloroethene  | 3.105   | 96    | 416      | 0.851    | ug/L # | 75       |
| 19) 1,1-Dichloroethane        | 3.617   | 63    | 27573    | 31.493   | ug/L   | 97       |
| 20) cis-1,2-Dichloroethene    | 4.495   | 96    | 5894     | 10.231   | ug/L   | 94       |
| 27) 1,2-Dichloroethane        | 6.098   | 62    | 1735     | 2.504    | ug/L # | 73       |
| 30) 1,1,1-Trichloroethane     | 5.385   | 97    | 21068    | 24.458   | ug/L   | 98       |
| 34) Trichloroethene           | 7.129   | 95    | 3426     | 6.249    | ug/L   | 92       |
| 46) Tetrachloroethene         | 9.275   | 164   | 3250     | 6.989    | ug/L   | 93       |
| -----                         |         |       |          |          |        |          |

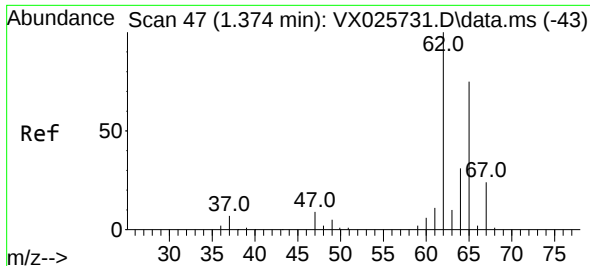
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M4997-08  
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ALS Vial : 14 Sample Multiplier: 1

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ClientSampleId :  
EW5R3

Quant Time: Dec 12 06:35:26 2021  
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Quant Title : VOC Analysis  
QLast Update : Sat Dec 11 00:48:07 2021  
Response via : Initial Calibration

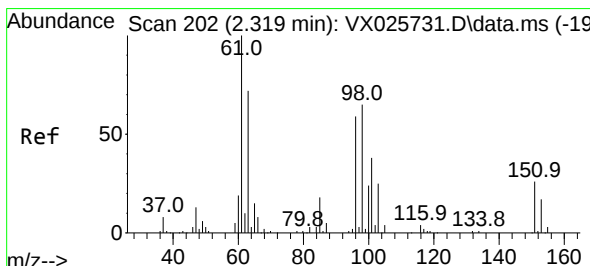
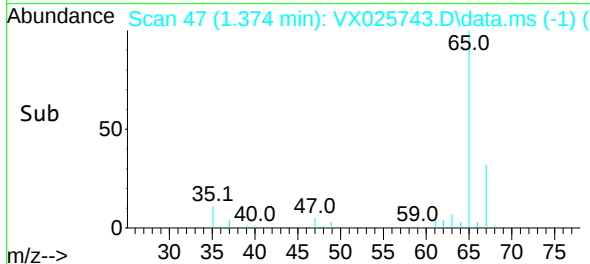
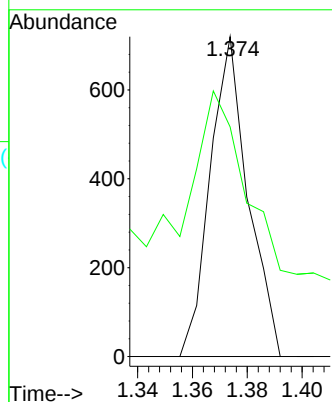
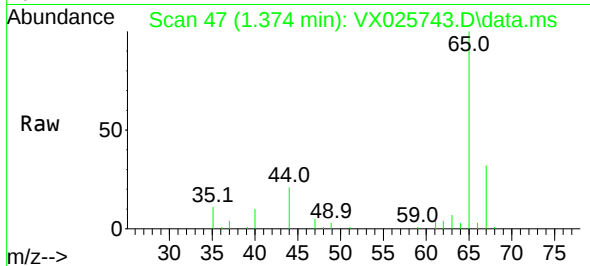




#5  
 Vinyl chloride  
 Concen: 1.152 ug/L  
 RT: 1.374 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VX025743.D  
 Acq: 11 Dec 2021 15:12

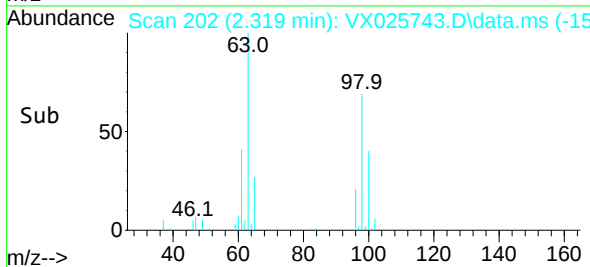
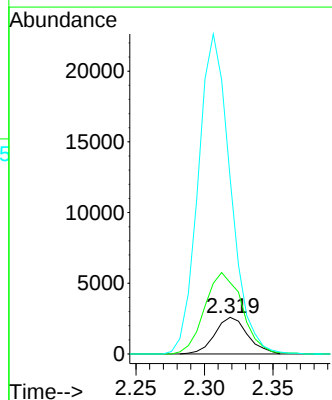
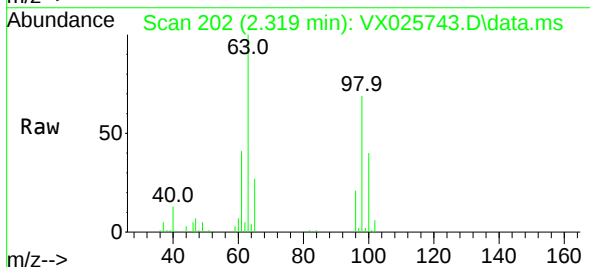
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EW5R3

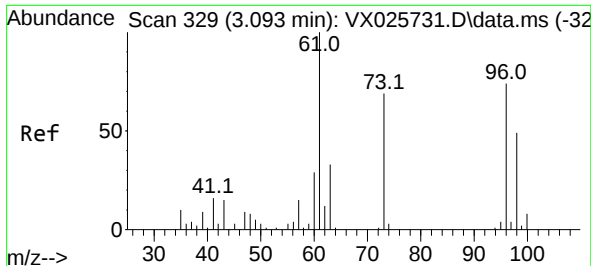
Tgt Ion: 62 Resp: 689  
 Ion Ratio Lower Upper  
 62 100  
 64 71.8 22.9 42.5#



#12  
 1,1-Dichloroethene  
 Concen: 9.493 ug/L  
 RT: 2.319 min Scan# 202  
 Delta R.T. -0.000 min  
 Lab File: VX025743.D  
 Acq: 11 Dec 2021 15:12

Tgt Ion: 96 Resp: 4311  
 Ion Ratio Lower Upper  
 96 100  
 61 195.0 108.7 201.9  
 63 480.6 76.3 141.7#

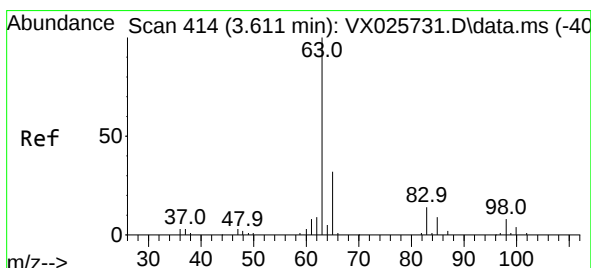
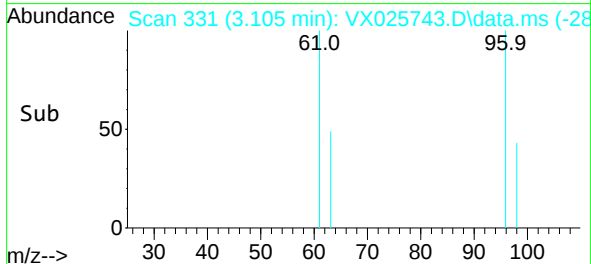
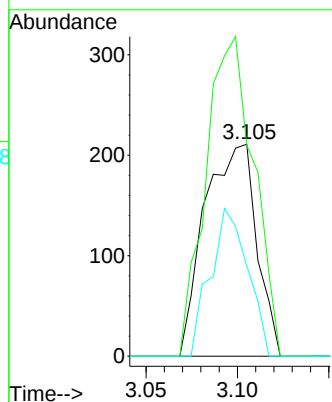
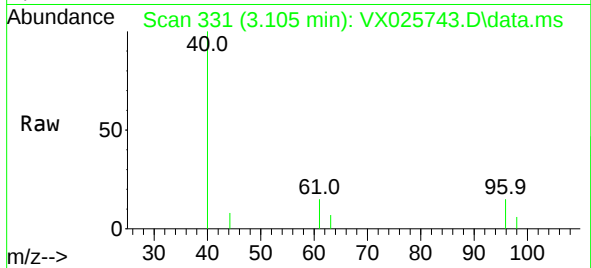




#17  
trans-1,2-Dichloroethene  
Concen: 0.851 ug/L  
RT: 3.105 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VX025743.D  
Acq: 11 Dec 2021 15:12

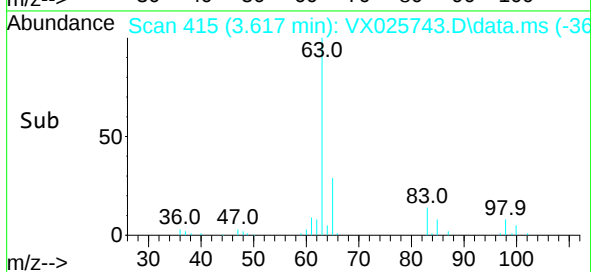
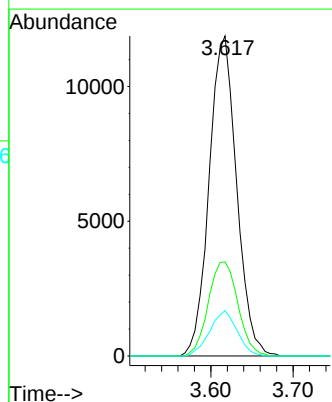
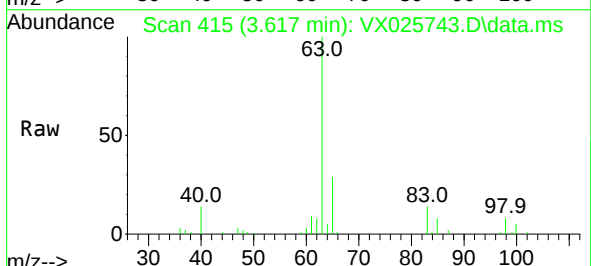
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ClientSampleId :  
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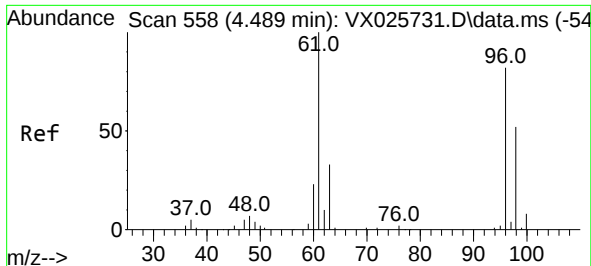
Tgt Ion: 96 Resp: 416  
Ion Ratio Lower Upper  
96 100  
61 99.5 88.5 164.4  
98 42.7 44.3 82.3#



#19  
1,1-Dichloroethane  
Concen: 31.493 ug/L  
RT: 3.617 min Scan# 415  
Delta R.T. 0.006 min  
Lab File: VX025743.D  
Acq: 11 Dec 2021 15:12

Tgt Ion: 63 Resp: 27573  
Ion Ratio Lower Upper  
63 100  
65 29.4 22.2 41.2  
83 14.2 10.2 19.0

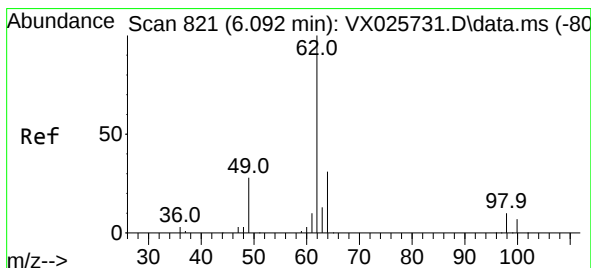
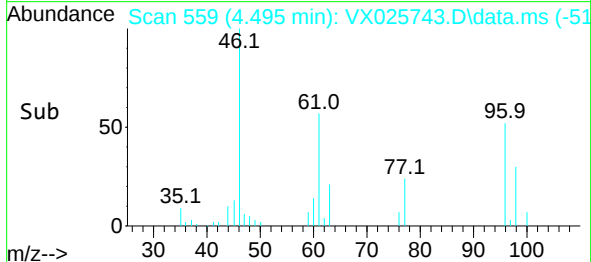
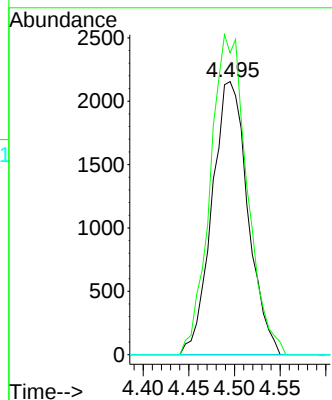
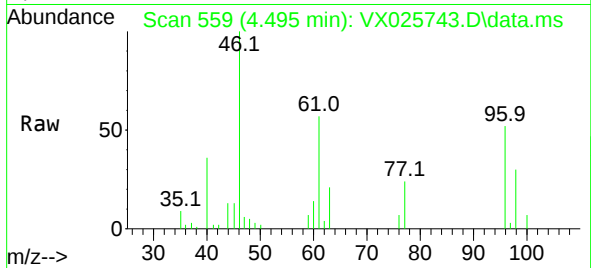




#20  
 cis-1,2-Dichloroethene  
 Concen: 10.231 ug/L  
 RT: 4.495 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VX025743.D  
 Acq: 11 Dec 2021 15:12

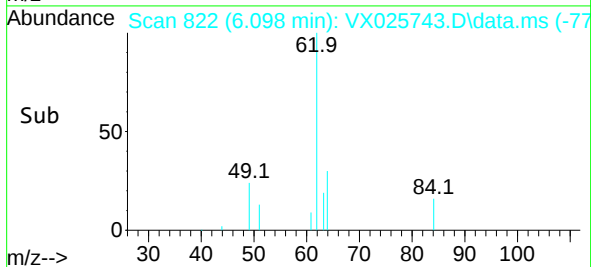
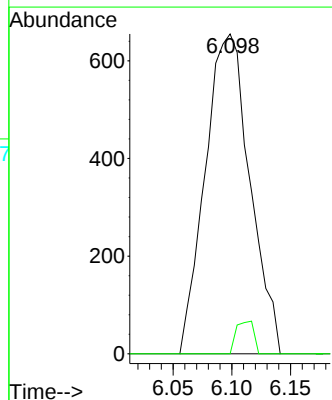
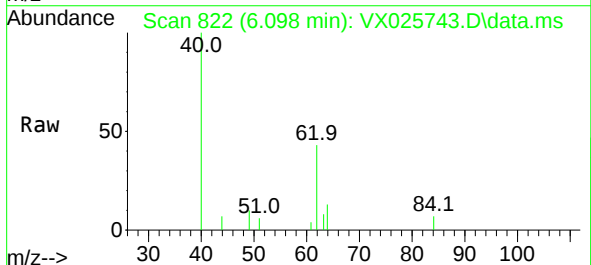
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
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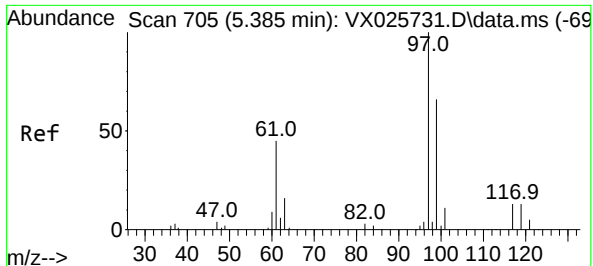
Tgt Ion: 96 Resp: 5894  
 Ion Ratio Lower Upper  
 96 100  
 61 110.5 82.3 152.8  
 68 0.0 0.0 0.0



#27  
 1,2-Dichloroethane  
 Concen: 2.504 ug/L  
 RT: 6.098 min Scan# 822  
 Delta R.T. 0.006 min  
 Lab File: VX025743.D  
 Acq: 11 Dec 2021 15:12

Tgt Ion: 62 Resp: 1735  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 8.2 12.2#





#30

1,1,1-Trichloroethane

Concen: 24.458 ug/L

RT: 5.385 min Scan# 705

Delta R.T. -0.000 min

Lab File: VX025743.D

Acq: 11 Dec 2021 15:12

Instrument :

MSVOA\_X

ClientSampleId :

EW5R3

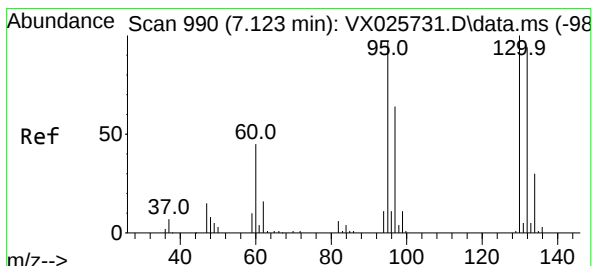
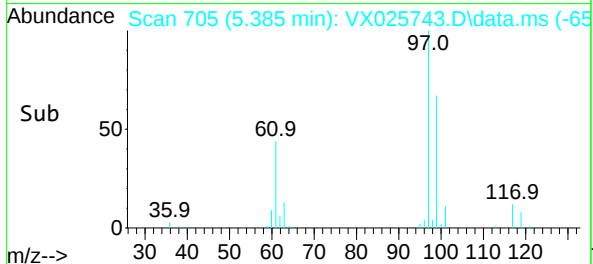
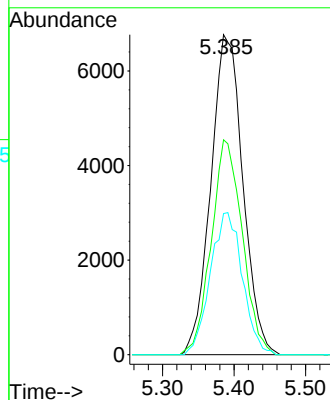
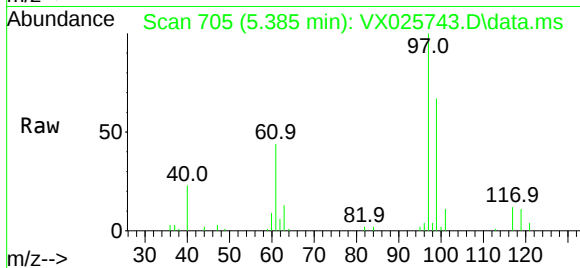
Tgt Ion: 97 Resp: 21068

Ion Ratio Lower Upper

97 100

99 64.9 51.5 77.3

61 44.3 33.1 49.7



#34

Trichloroethene

Concen: 6.249 ug/L

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX025743.D

Acq: 11 Dec 2021 15:12

Tgt Ion: 95 Resp: 3426

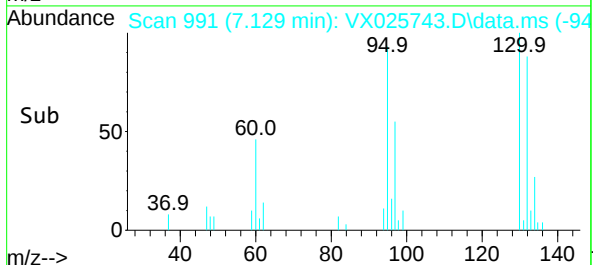
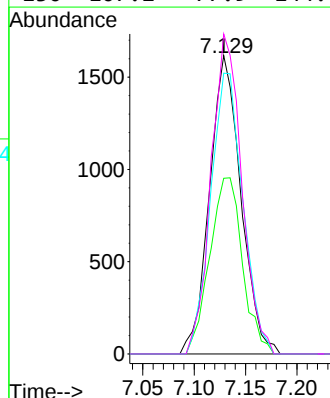
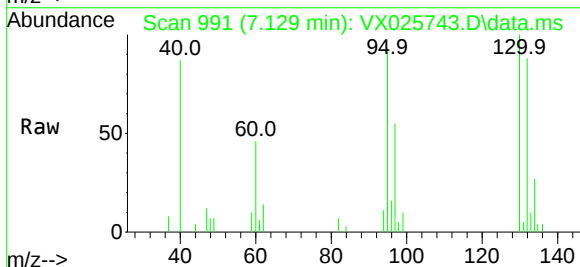
Ion Ratio Lower Upper

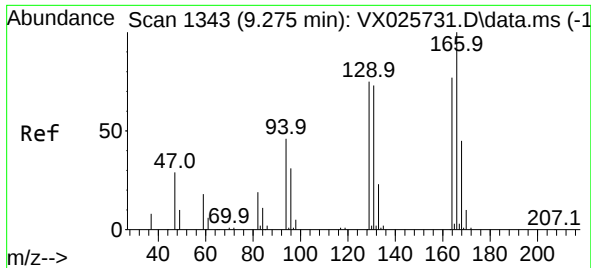
95 100

97 58.9 46.0 85.4

132 94.1 75.0 139.2

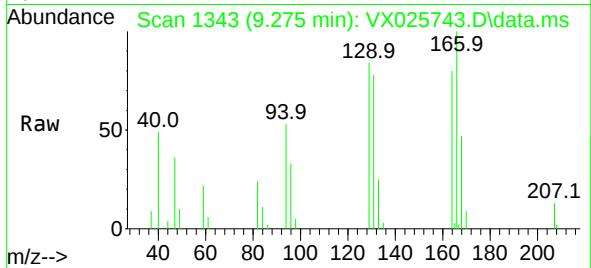
130 107.2 77.9 144.7





#46  
 Tetrachloroethene  
 Concen: 6.989 ug/L  
 RT: 9.275 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VX025743.D  
 Acq: 11 Dec 2021 15:12

Instrument :  
 MSVOA\_X  
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Tgt Ion:164 Resp: 3250

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 129 | 104.6 | 64.7  | 120.1 |
| 131 | 96.7  | 63.2  | 117.4 |
| 166 | 124.7 | 90.1  | 167.3 |

