

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120823\  
 Data File : VX039101.D  
 Acq On : 08 Dec 2023 13:14  
 Operator : JC/MD  
 Sample : 05717-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT-058-IDWGW-20231207

Quant Time: Dec 08 23:47:53 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X112423W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Nov 27 03:22:25 2023  
 Response via : Initial Calibration

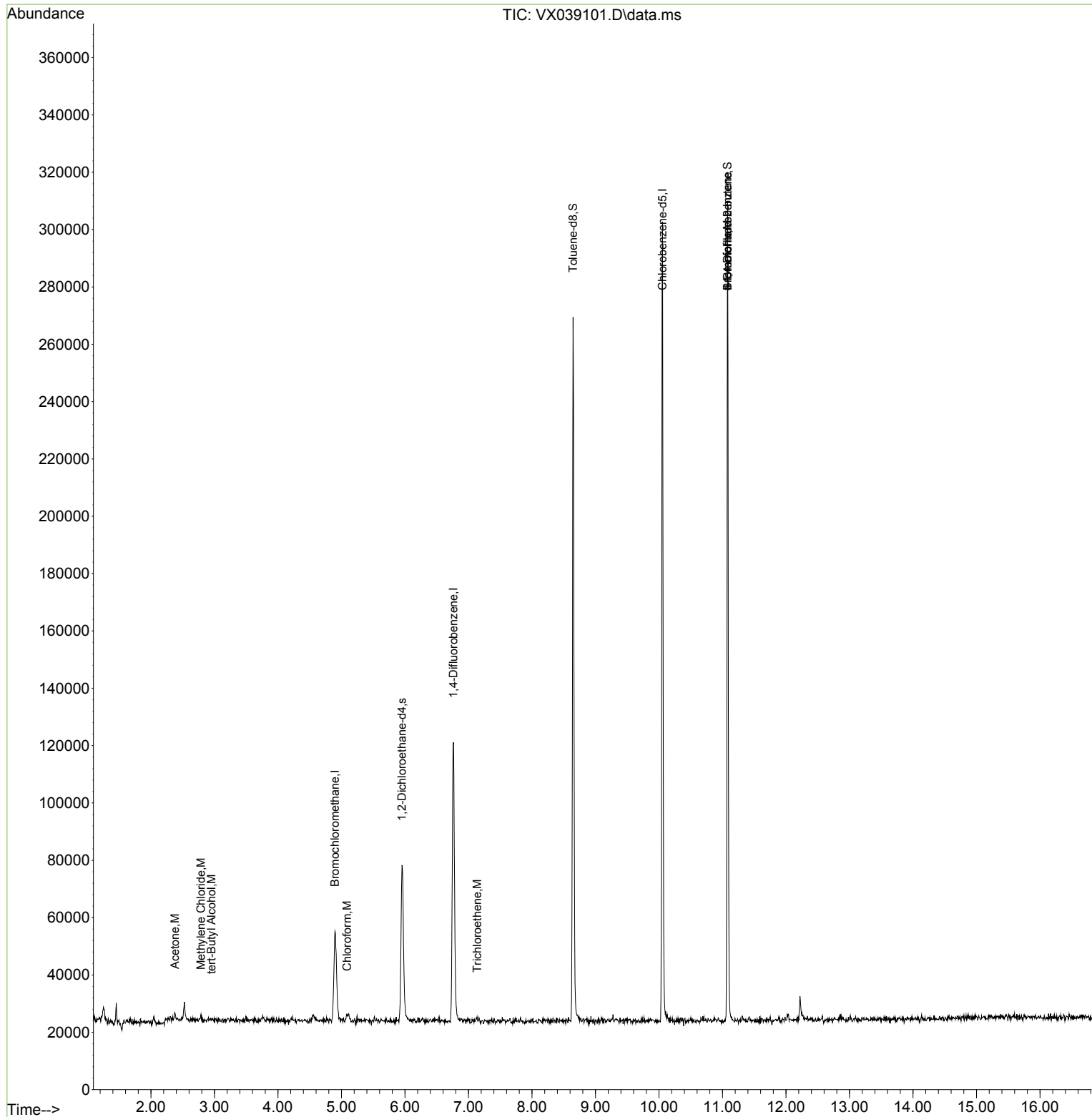
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.898  | 128   | 12268    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.763  | 114   | 100119   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 125454   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.952  | 65    | 52007    | 30.987   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 103.300% |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 80709    | 29.454   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 98.167%  |
| 63) Toluene-d8              | 8.647  | 98    | 146124   | 29.460   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 98.200%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 15) Acetone                 | 2.380  | 58    | 961      | 2.077    | ug/l # | 57       |
| 18) Methylene Chloride      | 2.788  | 84    | 545      | 0.276    | ug/l # | 89       |
| 23) tert-Butyl Alcohol      | 2.953  | 59    | 378      | 0.536    | ug/l # | 100      |
| 25) Chloroform              | 5.087  | 83    | 1697     | 0.482    | ug/l   | 88       |
| 37) Trichloroethene         | 7.135  | 130   | 513      | 0.247    | ug/l # | 55       |
| 56) Bromoform               | 11.079 | 173   | 326      | 0.203    | ug/l # | 1        |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75    | 41197    | 33.885   | ug/l # | 12       |
| -----                       |        |       |          |          |        |          |

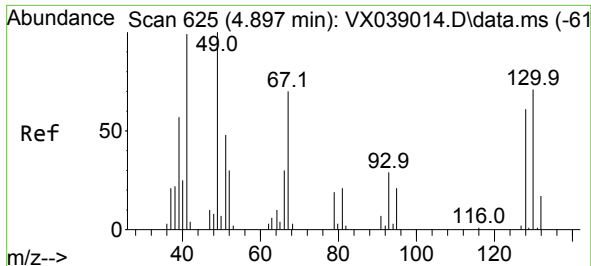
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Nov 27 03:22:25 2023  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.898 min Scan# 61

Delta R.T. 0.001 min

Lab File: VX039101.D

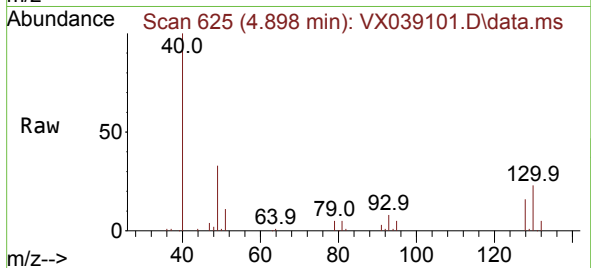
Acq: 08 Dec 2023 13:14

Instrument :

MSVOA\_X

ClientSampleId :

TT-058-IDWGW-20231207



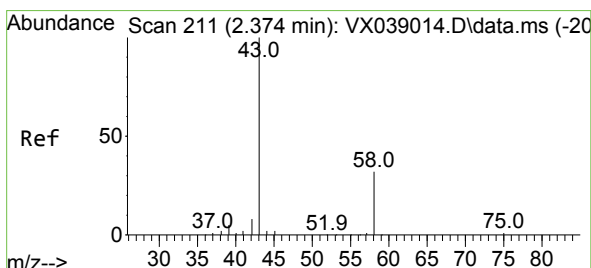
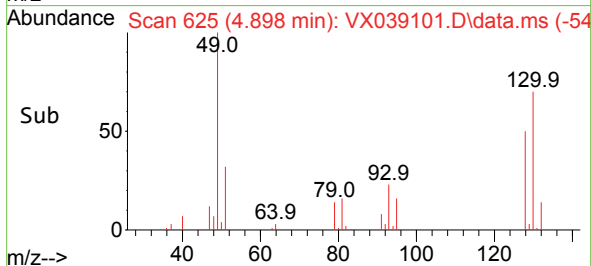
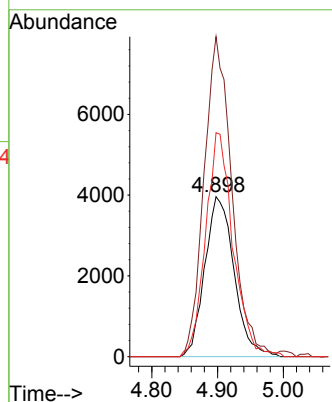
Tgt Ion:128 Resp: 12268

Ion Ratio Lower Upper

128 100

49 187.9 0.0 444.0

130 131.9 0.0 297.8



#15

Acetone

Concen: 2.077 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX039101.D

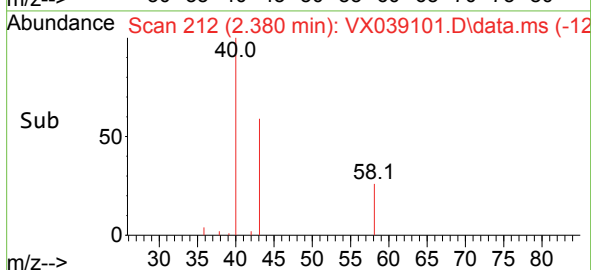
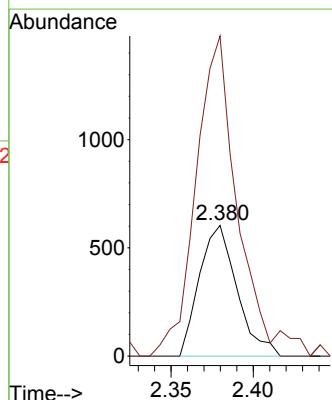
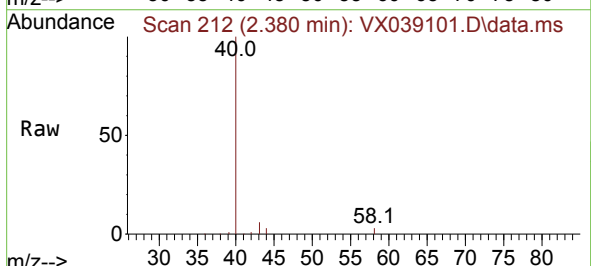
Acq: 08 Dec 2023 13:14

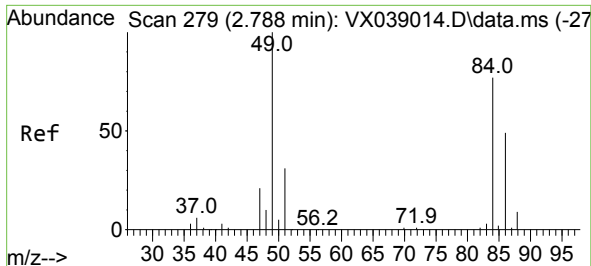
Tgt Ion: 58 Resp: 961

Ion Ratio Lower Upper

58 100

43 225.5 249.9 374.9#





#18

Methylene Chloride

Concen: 0.276 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX039101.D

Acq: 08 Dec 2023 13:14

Instrument :

MSVOA\_X

ClientSampleId :

TT-058-IDWGW-20231207

Tgt Ion: 84 Resp: 545

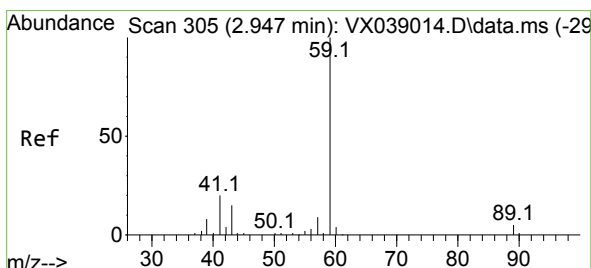
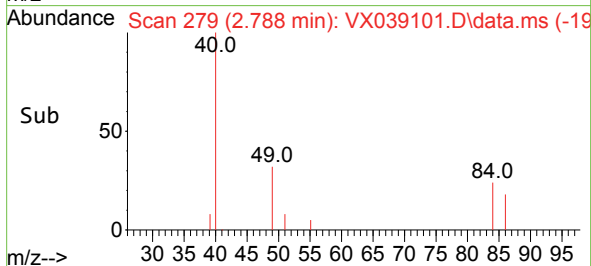
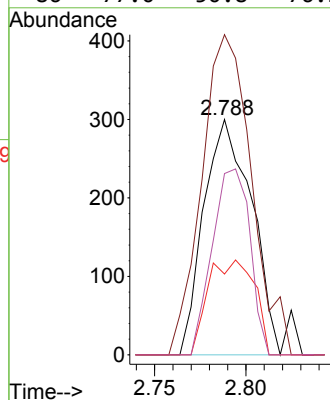
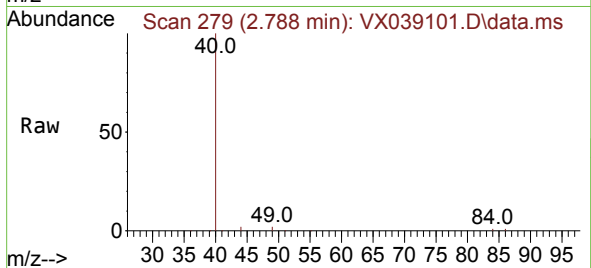
Ion Ratio Lower Upper

84 100

49 119.0 103.8 155.8

51 34.3 31.8 47.6

86 77.0 50.8 76.2#



#23

tert-Butyl Alcohol

Concen: 0.536 ug/l

RT: 2.953 min Scan# 306

Delta R.T. 0.006 min

Lab File: VX039101.D

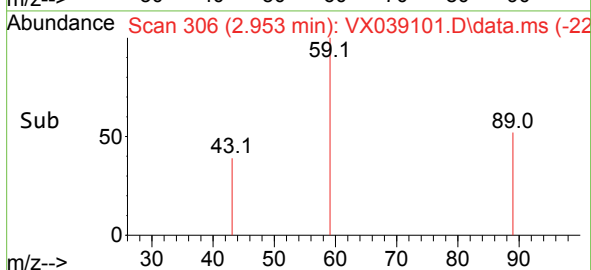
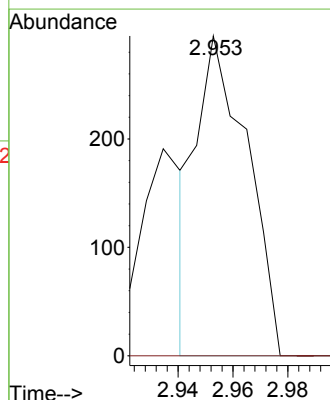
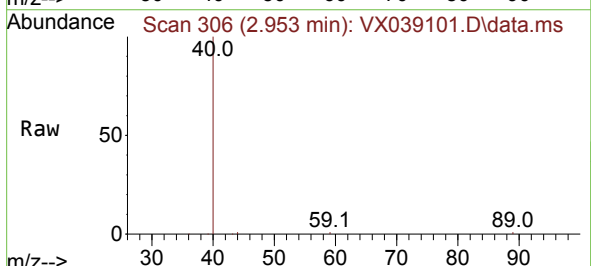
Acq: 08 Dec 2023 13:14

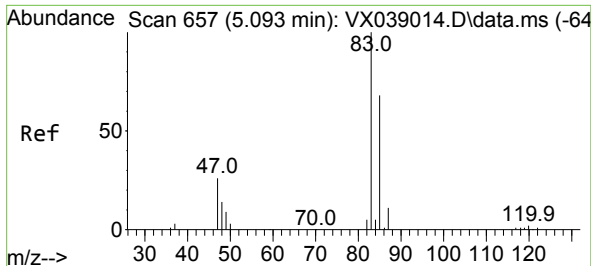
Tgt Ion: 59 Resp: 378

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

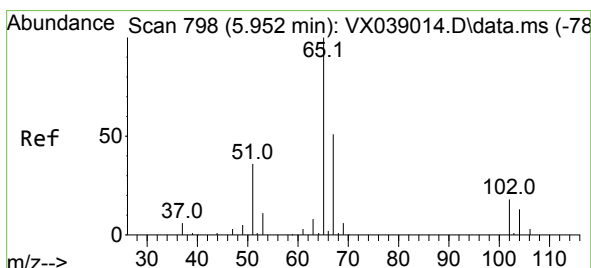
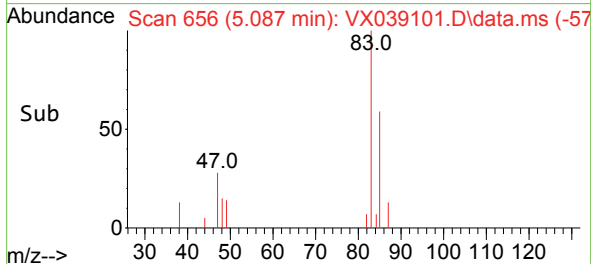
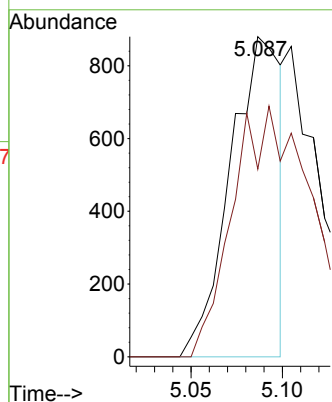
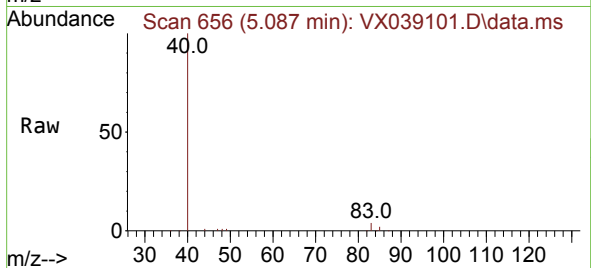




#25  
Chloroform  
Concen: 0.482 ug/l  
RT: 5.087 min Scan# 61  
Delta R.T. -0.006 min  
Lab File: VX039101.D  
Acq: 08 Dec 2023 13:14

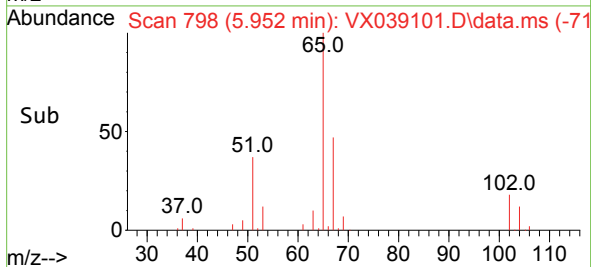
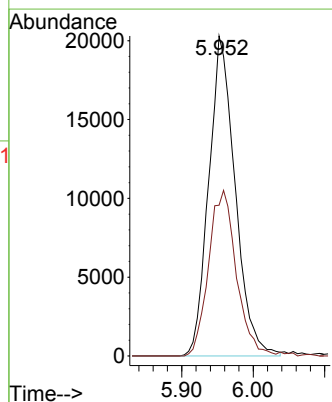
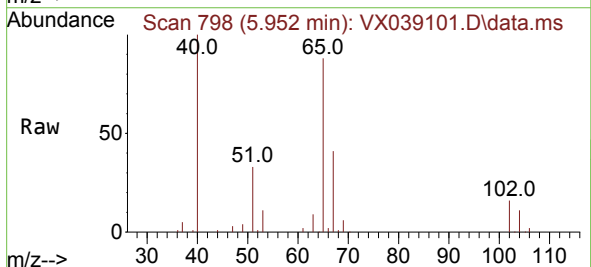
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT-058-IDWGW-20231207

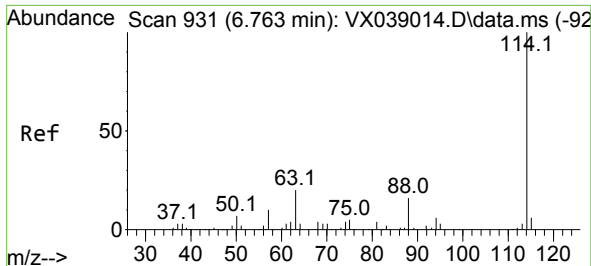
Tgt Ion: 83 Resp: 1697  
Ion Ratio Lower Upper  
83 100  
85 58.6 54.6 81.8



#27  
1,2-Dichloroethane-d4  
Concen: 30.987 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX039101.D  
Acq: 08 Dec 2023 13:14

Tgt Ion: 65 Resp: 52007  
Ion Ratio Lower Upper  
65 100  
67 54.4 42.5 63.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX039101.D

Acq: 08 Dec 2023 13:14

Instrument :

MSVOA\_X

ClientSampleId :

TT-058-IDWGW-20231207

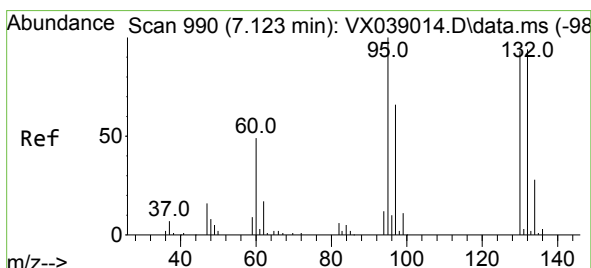
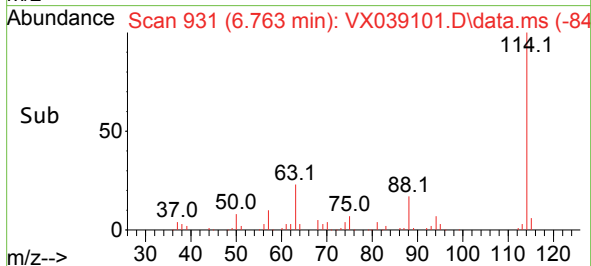
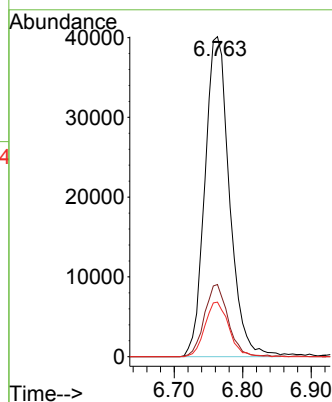
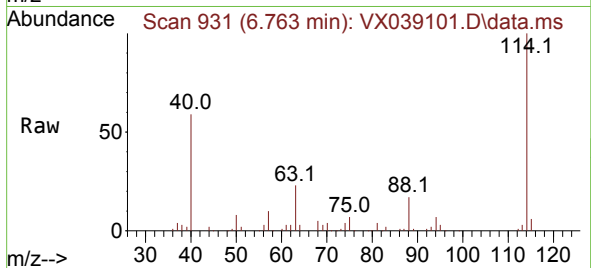
Tgt Ion:114 Resp: 100119

Ion Ratio Lower Upper

114 100

63 21.6 17.0 25.4

88 16.6 12.7 19.1



#37

Trichloroethene

Concen: 0.247 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.012 min

Lab File: VX039101.D

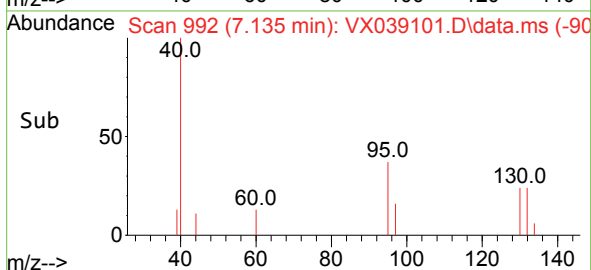
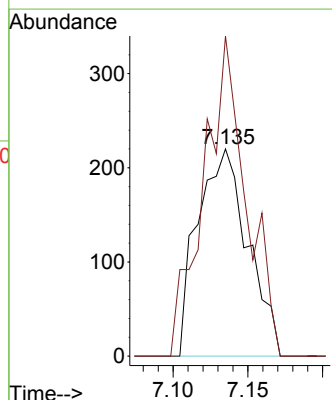
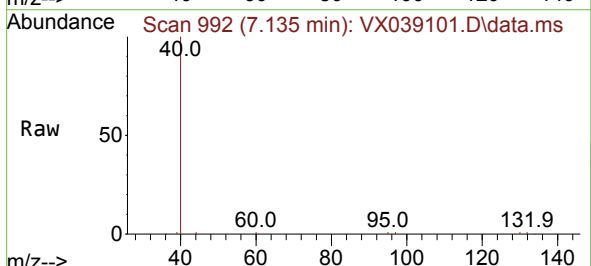
Acq: 08 Dec 2023 13:14

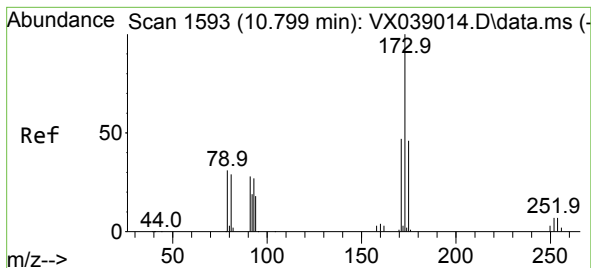
Tgt Ion:130 Resp: 513

Ion Ratio Lower Upper

130 100

95 154.5 85.8 128.8#





#56

Bromoform

Concen: 0.203 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.281 min

Lab File: VX039101.D

Acq: 08 Dec 2023 13:14

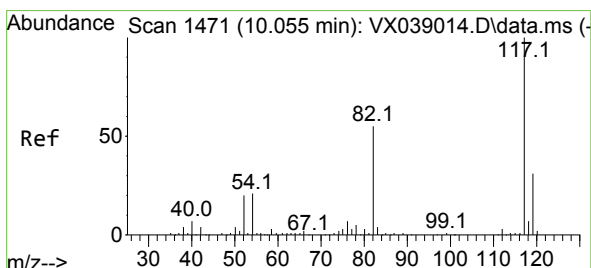
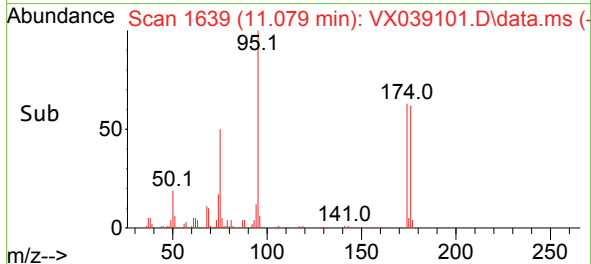
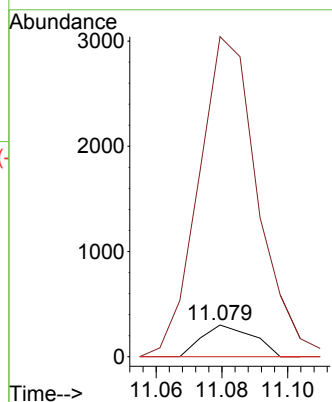
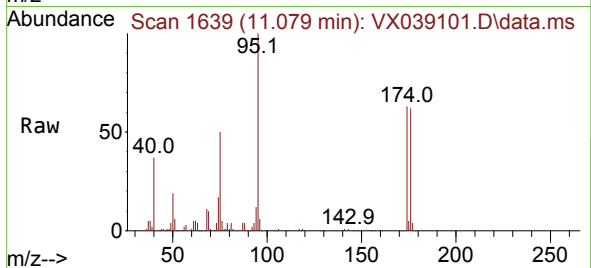
Instrument :

MSVOA\_X

ClientSampleId :

TT-058-IDWGW-20231207

|             |        |            |
|-------------|--------|------------|
| Tgt Ion:173 | Resp:  | 326        |
| Ion Ratio   | Lower  | Upper      |
| 173         | 100    |            |
| 175         | 1171.5 | 37.6 56.4# |
| 254         | 0.0    | 5.8 8.8#   |



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

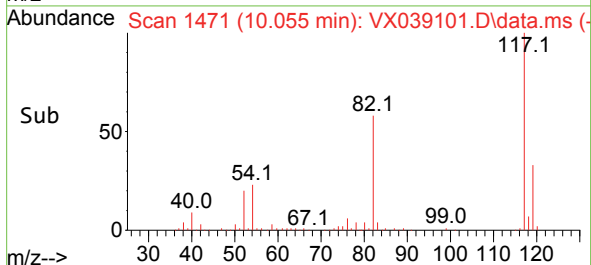
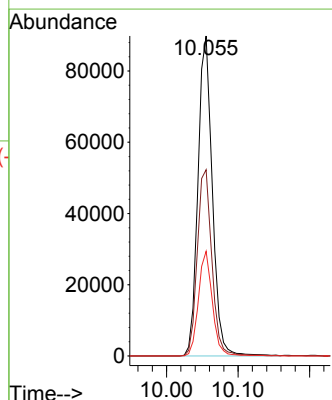
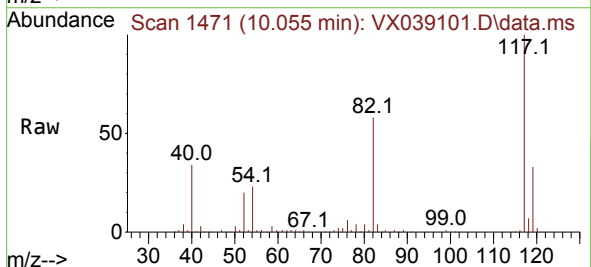
RT: 10.055 min Scan# 1471

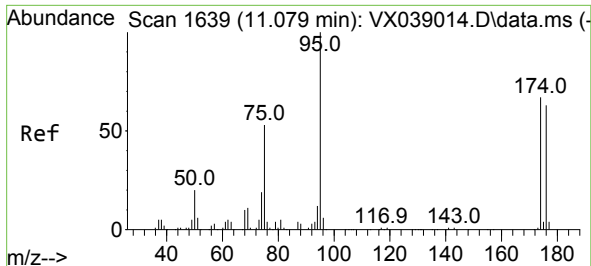
Delta R.T. 0.000 min

Lab File: VX039101.D

Acq: 08 Dec 2023 13:14

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:117 | Resp: | 125454    |
| Ion Ratio   | Lower | Upper     |
| 117         | 100   |           |
| 82          | 59.0  | 47.0 70.6 |
| 119         | 31.6  | 25.2 37.8 |

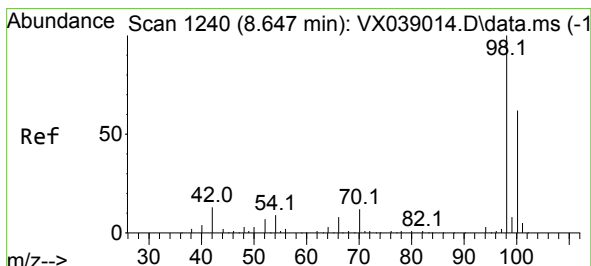
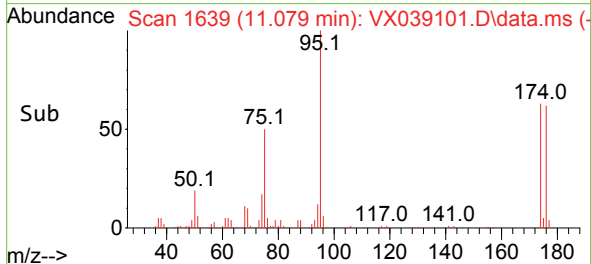
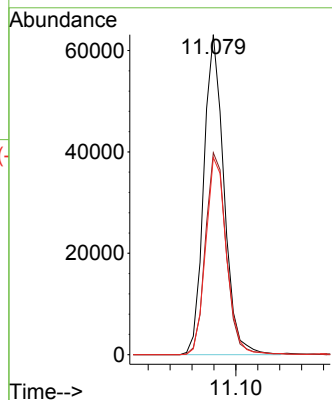
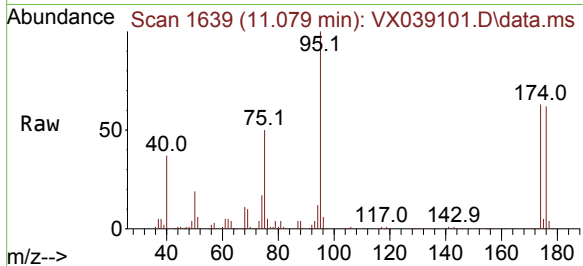




#60  
4-Bromofluorobenzene  
Concen: 29.454 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX039101.D  
Acq: 08 Dec 2023 13:14

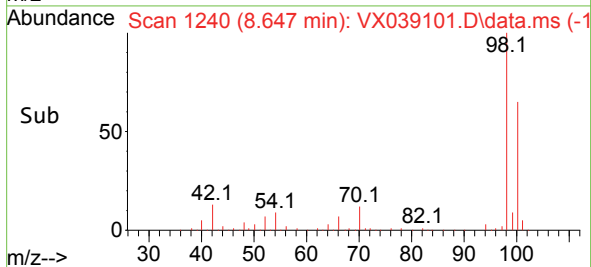
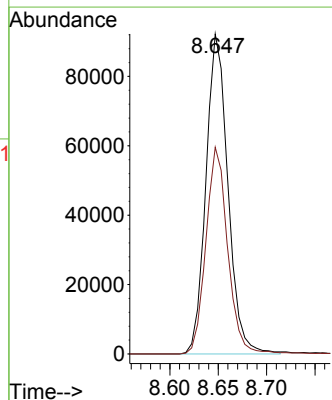
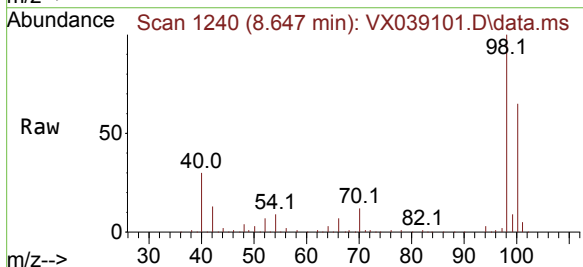
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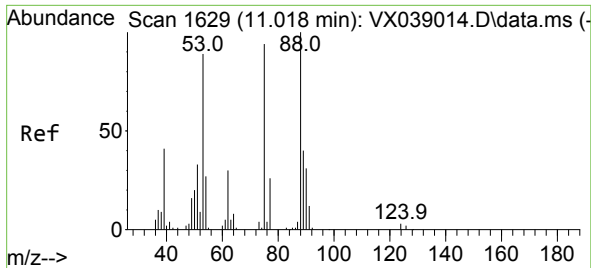
Tgt Ion: 95 Resp: 80709  
Ion Ratio Lower Upper  
95 100  
174 65.0 55.4 83.2  
176 63.3 52.6 78.8



#63  
Toluene-d8  
Concen: 29.460 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX039101.D  
Acq: 08 Dec 2023 13:14

Tgt Ion: 98 Resp: 146124  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.0 76.4





#77

t-1,4-Dichloro-2-butene

Concen: 33.885 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.061 min

Lab File: VX039101.D

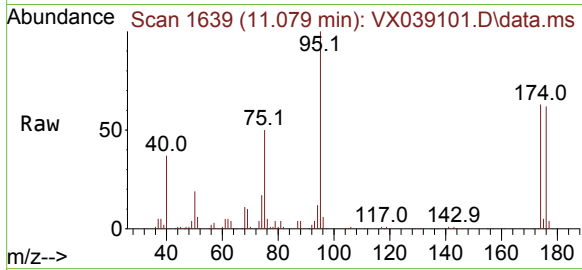
Acq: 08 Dec 2023 13:14

Instrument :

MSVOA\_X

ClientSampleId :

TT-058-IDWGW-20231207



Tgt Ion: 75 Resp: 41197

Ion Ratio Lower Upper

75 100

53 0.0 46.9 140.8#

89 0.0 21.3 63.7#

