

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV072324\  
 Data File : VV036646.D  
 Acq On : 23 Jul 2024 15:07  
 Operator : SY/MD  
 Sample : P3328-08  
 Misc : 7.95g/10.0mL/MSVOA\_V/SOIL/A  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Jul 24 01:00:53 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM072224SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jul 24 00:57:38 2024  
 Response via : Initial Calibration

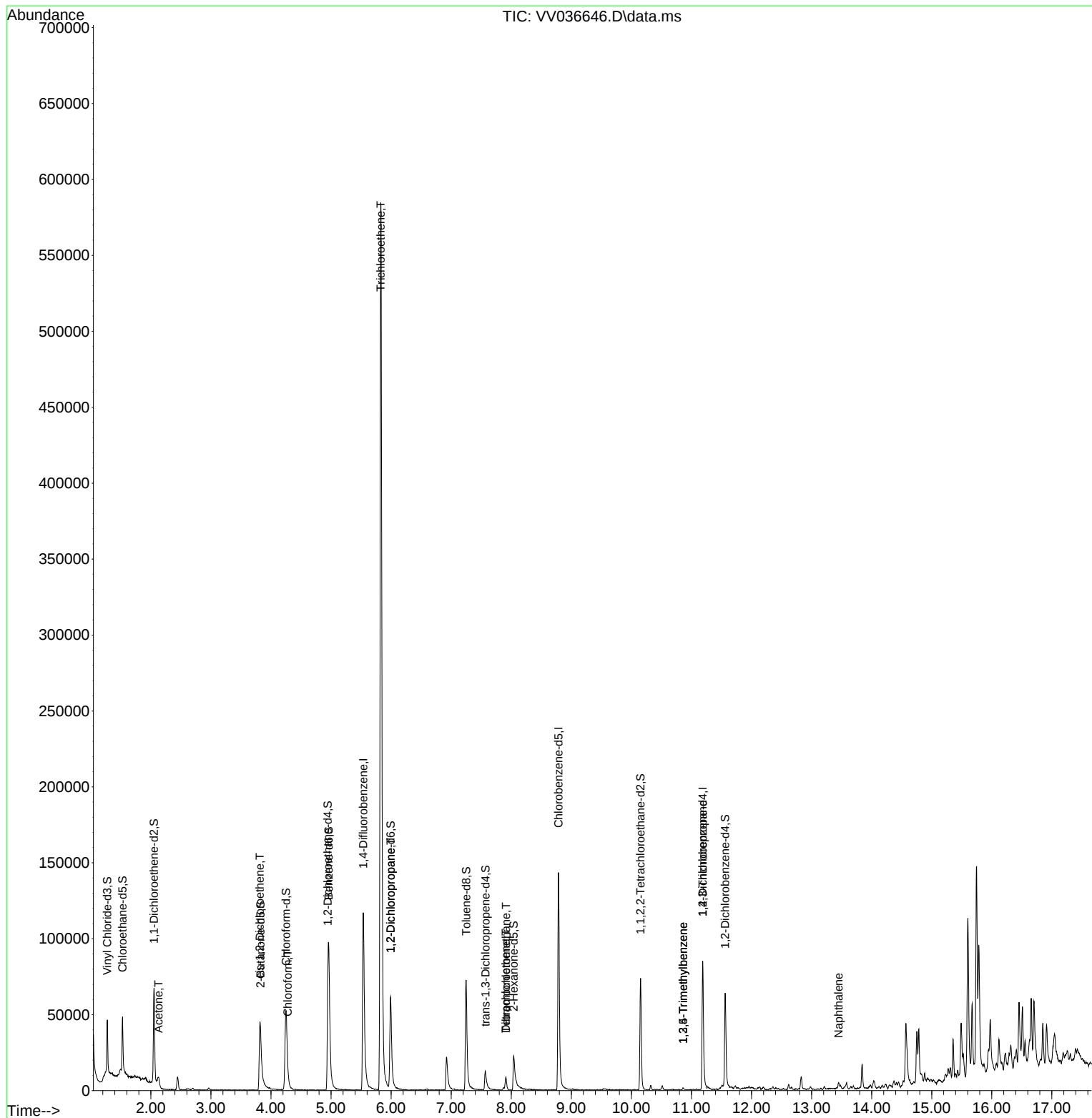
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 5.535  | 114   | 117853   | 25.000   | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 8.786  | 117   | 93998    | 25.000   | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.188 | 152   | 27456    | 25.000   | ug/L   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.275  | 65    | 22328    | 17.298   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 69.200%   |
| 7) Chloroethane-d5            | 1.529  | 69    | 22154    | 19.003   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 76.000%   |
| 11) 1,1-Dichloroethene-d2     | 2.053  | 65    | 10178    | 14.913   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 59.640%   |
| 21) 2-Butanone-d5             | 3.828  | 46    | 11898    | 39.497   | ug/L   | -0.01     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 79.000%   |
| 24) Chloroform-d              | 4.249  | 84    | 62618    | 20.090   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 80.360%   |
| 26) 1,2-Dichloroethane-d4     | 4.947  | 65    | 33573    | 21.833   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 87.320%   |
| 32) Benzene-d6                | 4.960  | 84    | 85960    | 19.295   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 77.200%   |
| 36) 1,2-Dichloropropane-d6    | 5.992  | 67    | 30818    | 24.278   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 97.120%   |
| 41) Toluene-d8                | 7.249  | 98    | 58011    | 13.645   | ug/L   | 0.01      |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 54.600%   |
| 43) trans-1,3-Dichloroprop... | 7.571  | 79    | 10024    | 17.764   | ug/L   | 0.02      |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 71.040%   |
| 47) 2-Hexanone-d5             | 8.040  | 63    | 8531     | 50.500   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 101.000%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.153 | 84    | 35375    | 31.974   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 127.880%# |
| 66) 1,2-Dichlorobenzene-d4    | 11.561 | 152   | 19467    | 20.311   | ug/L   | 0.00      |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 81.240%   |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 13) Acetone                   | 2.127  | 43    | 4261     | 8.708    | ug/L   | 85        |
| 20) cis-1,2-Dichloroethene    | 3.815  | 96    | 24117    | 12.577   | ug/L   | 95        |
| 25) Chloroform                | 4.278  | 83    | 1723     | 0.495    | ug/L   | 98        |
| 34) Trichloroethene           | 5.828  | 95    | 210906   | 120.730  | ug/L   | 98        |
| 37) 1,2-Dichloropropane       | 5.992  | 63    | 3706     | 3.017    | ug/L # | 82        |
| 46) Tetrachloroethene         | 7.908  | 164   | 2564     | 1.479    | ug/L   | 96        |
| 49) Dibromochloromethane      | 7.911  | 129   | 1938     | 1.284    | ug/L # | 11        |
| 61) 1,2,3-Trichloropropane    | 11.188 | 75    | 2656     | 5.487    | ug/L # | 47        |
| 62) 1,3,5-Trimethylbenzene    | 10.863 | 105   | 1021     | 0.390    | ug/L   | 88        |
| 63) 1,2,4-Trimethylbenzene    | 10.863 | 105   | 1021     | 0.385    | ug/L   | 93        |
| 71) Naphthalene               | 13.451 | 128   | 4566     | 2.550    | ug/L # | 96        |
| -----                         |        |       |          |          |        |           |

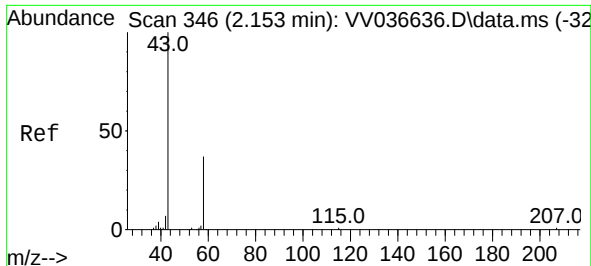
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : P3328-08  
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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Jul 24 01:00:53 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM072224SMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Jul 24 00:57:38 2024  
Response via : Initial Calibration





#13

Acetone

Concen: 8.708 ug/L

RT: 2.127 min Scan# 346

Delta R.T. -0.026 min

Lab File: VV036646.D

Acq: 23 Jul 2024 15:07

Instrument :

MSVOA\_V

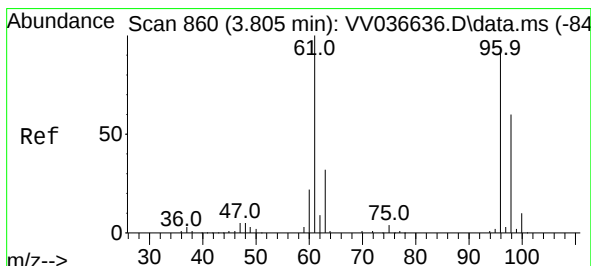
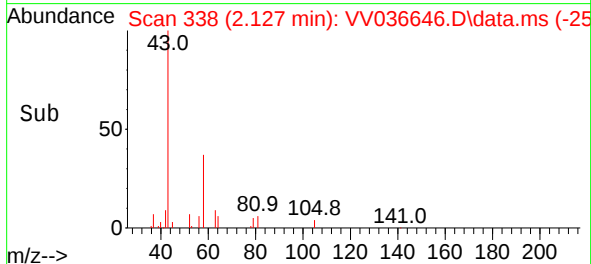
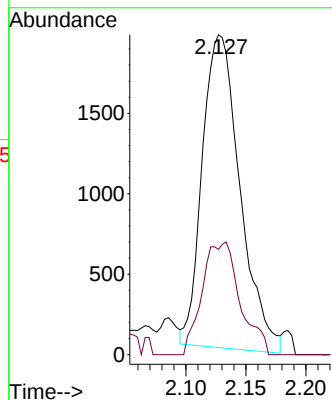
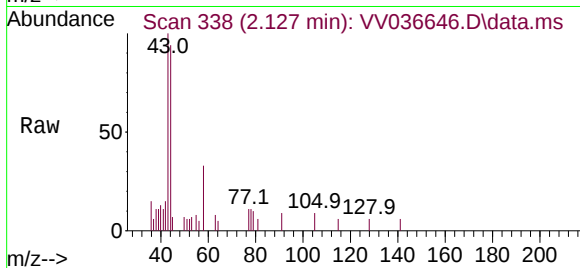
ClientSampleId :

Tgt Ion: 43 Resp: 4261

Ion Ratio Lower Upper

43 100

58 17.1 0.0 23.0



#20

cis-1,2-Dichloroethene

Concen: 12.577 ug/L

RT: 3.815 min Scan# 863

Delta R.T. 0.010 min

Lab File: VV036646.D

Acq: 23 Jul 2024 15:07

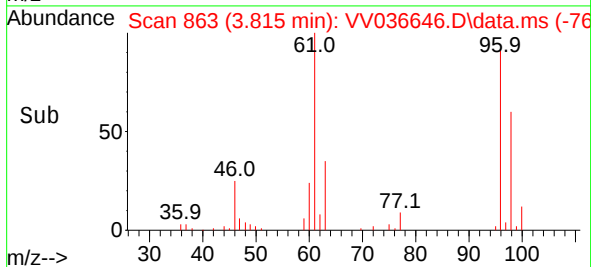
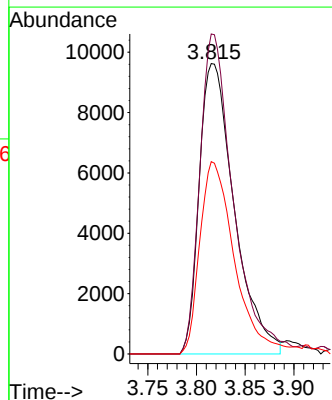
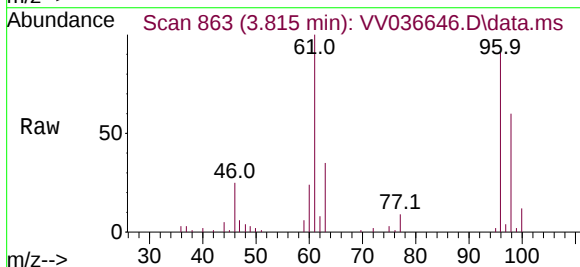
Tgt Ion: 96 Resp: 24117

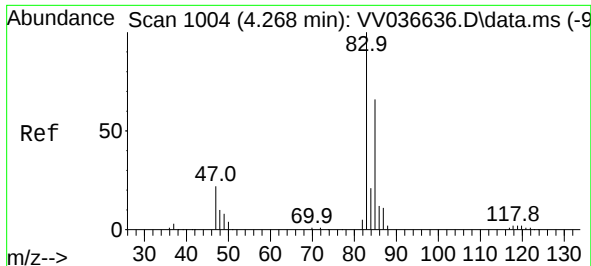
Ion Ratio Lower Upper

96 100

61 110.2 73.0 135.6

98 66.2 44.8 83.2





#25

Chloroform

Concen: 0.495 ug/L

RT: 4.278 min Scan# 1

Delta R.T. 0.010 min

Lab File: VV036646.D

Acq: 23 Jul 2024 15:07

Instrument :

MSVOA\_V

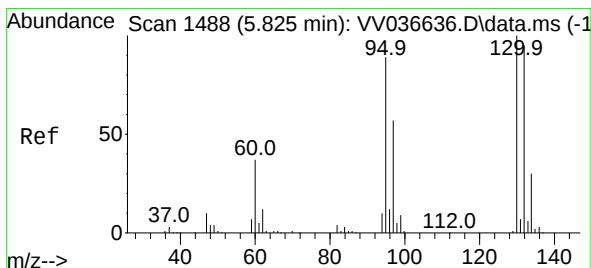
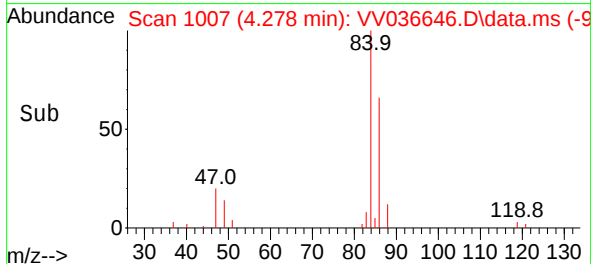
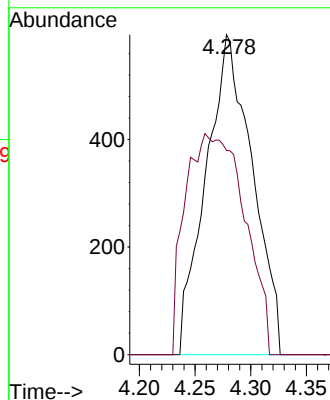
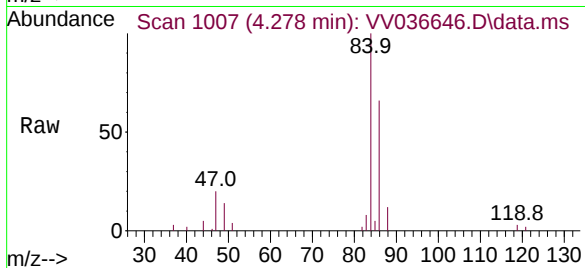
ClientSampleId :

Tgt Ion: 83 Resp: 1723

Ion Ratio Lower Upper

83 100

85 63.9 45.6 84.6



#34

Trichloroethene

Concen: 120.730 ug/L

RT: 5.828 min Scan# 1489

Delta R.T. 0.003 min

Lab File: VV036646.D

Acq: 23 Jul 2024 15:07

Tgt Ion: 95 Resp: 210906

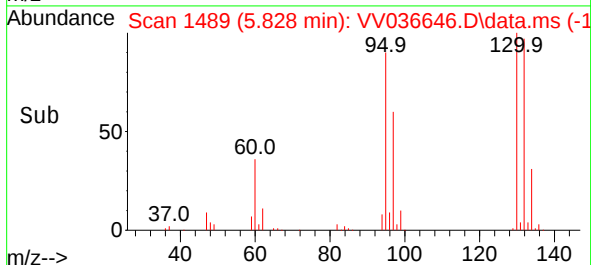
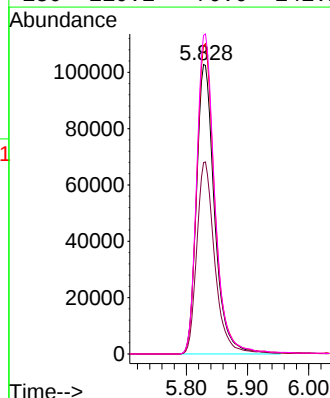
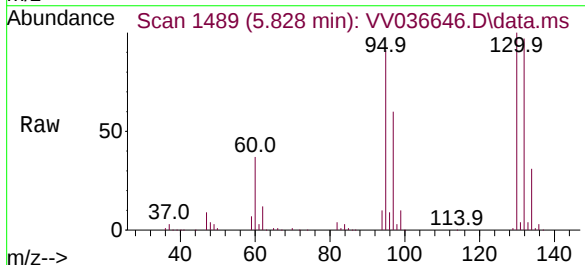
Ion Ratio Lower Upper

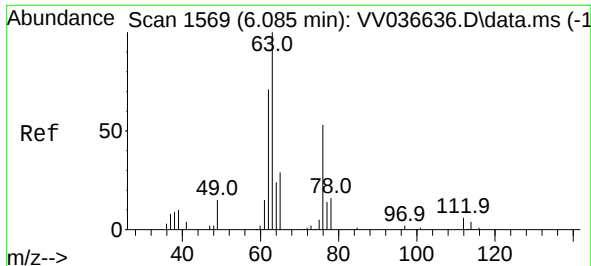
95 100

97 66.1 45.1 83.7

132 106.5 72.7 134.9

130 110.1 76.0 141.2

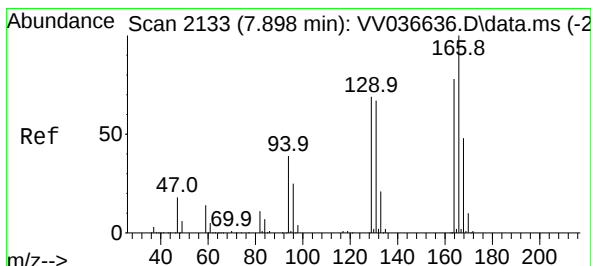
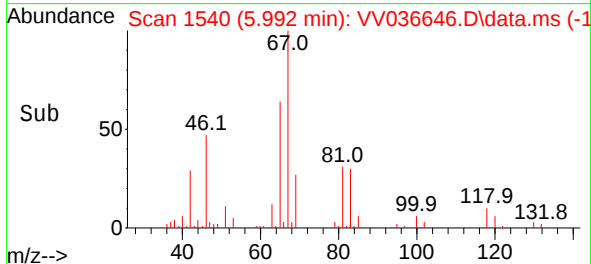
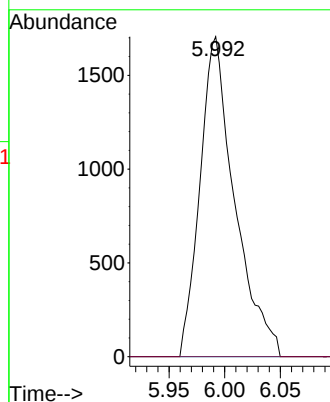
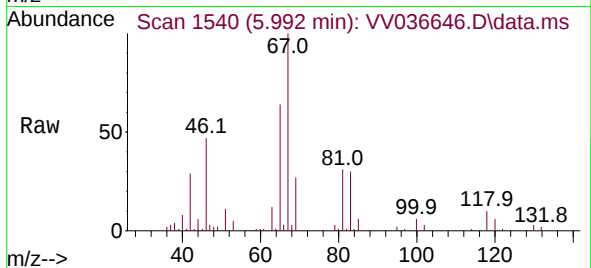




#37  
1,2-Dichloropropane  
Concen: 3.017 ug/L  
RT: 5.992 min Scan# 11  
Delta R.T. -0.093 min  
Lab File: VV036646.D  
Acq: 23 Jul 2024 15:07

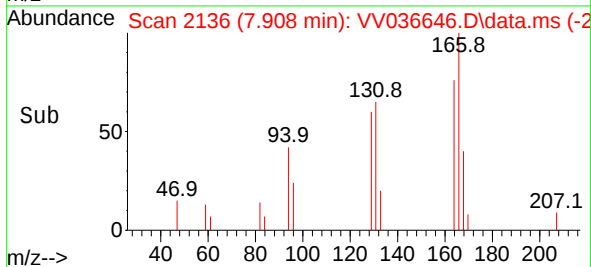
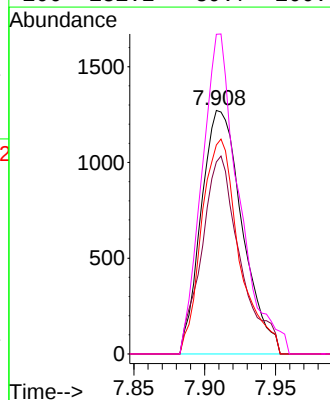
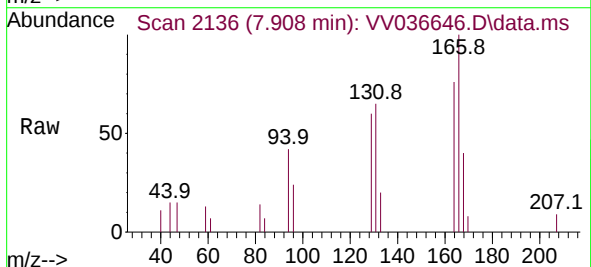
Instrument :  
MSVOA\_V  
ClientSampleId :

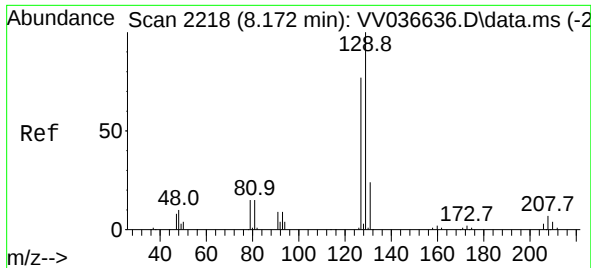
Tgt Ion: 63 Resp: 3706  
Ion Ratio Lower Upper  
63 100  
112 0.0 4.8 7.2#



#46  
Tetrachloroethene  
Concen: 1.479 ug/L  
RT: 7.908 min Scan# 2136  
Delta R.T. 0.010 min  
Lab File: VV036646.D  
Acq: 23 Jul 2024 15:07

Tgt Ion:164 Resp: 2564  
Ion Ratio Lower Upper  
164 100  
129 78.9 61.0 113.2  
131 85.8 60.1 111.5  
166 131.2 89.7 166.7





#49

Dibromochloromethane

Concen: 1.284 ug/L

RT: 7.911 min Scan# 2137

Delta R.T. -0.260 min

Lab File: VV036646.D

Acq: 23 Jul 2024 15:07

Instrument :

MSVOA\_V

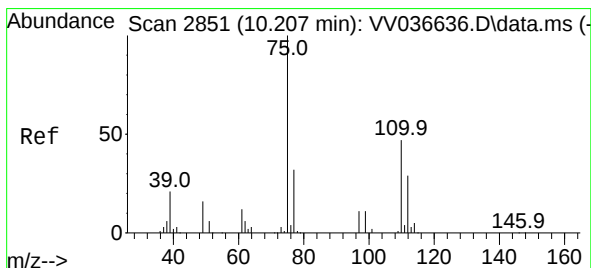
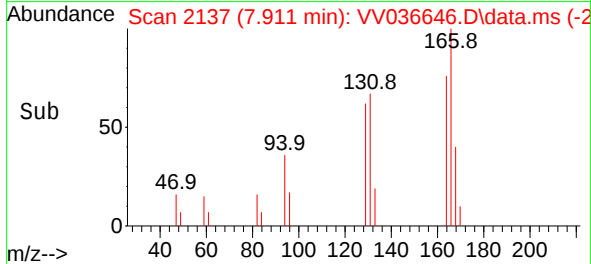
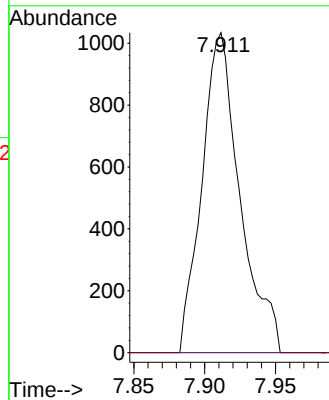
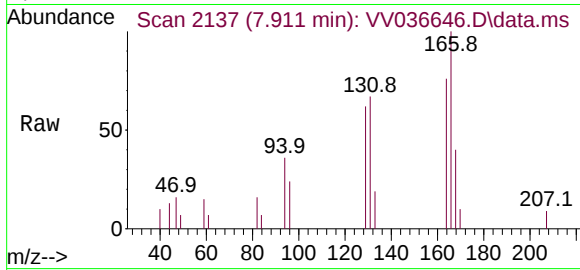
ClientSampleId :

Tgt Ion:129 Resp: 1938

Ion Ratio Lower Upper

129 100

127 0.0 54.3 100.9#



#61

1,2,3-Trichloropropane

Concen: 5.487 ug/L

RT: 11.188 min Scan# 3156

Delta R.T. 0.981 min

Lab File: VV036646.D

Acq: 23 Jul 2024 15:07

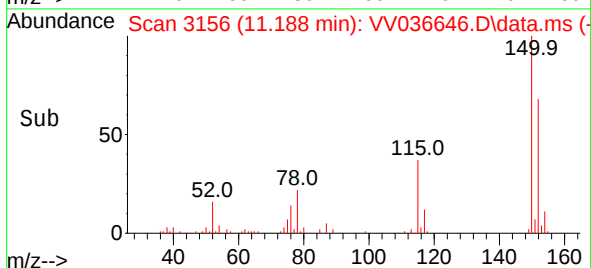
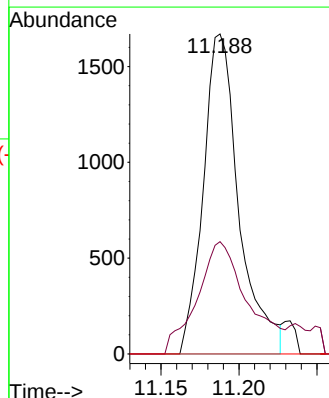
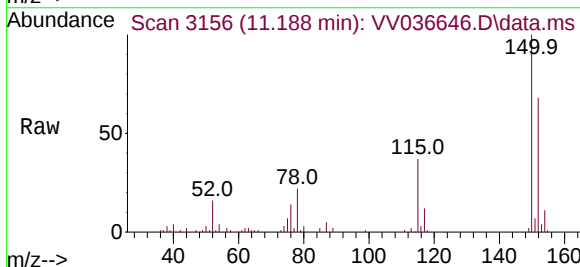
Tgt Ion: 75 Resp: 2656

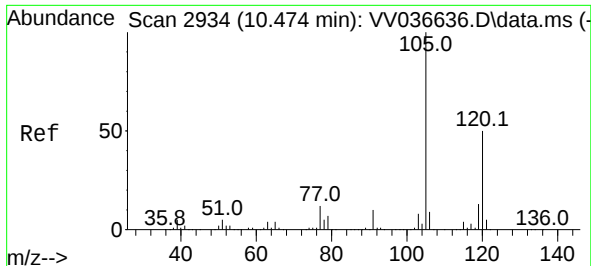
Ion Ratio Lower Upper

75 100

77 50.0 25.9 38.9#

110 0.0 36.2 54.4#





#62

1,3,5-Trimethylbenzene

Concen: 0.390 ug/L

RT: 10.863 min Scan# 3055

Delta R.T. 0.389 min

Lab File: VV036646.D

Acq: 23 Jul 2024 15:07

Instrument :

MSVOA\_V

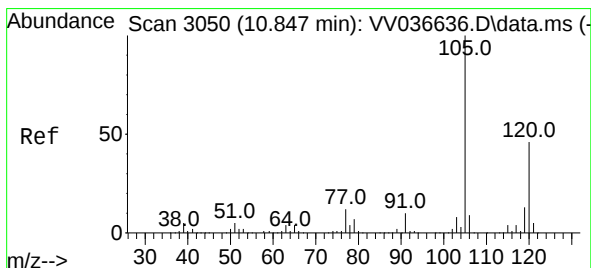
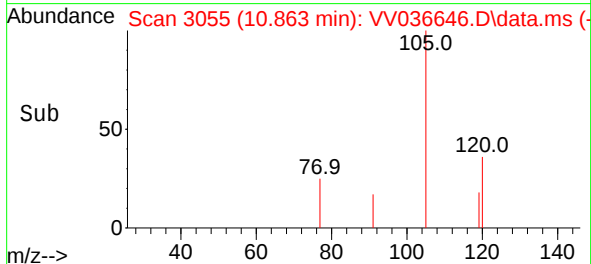
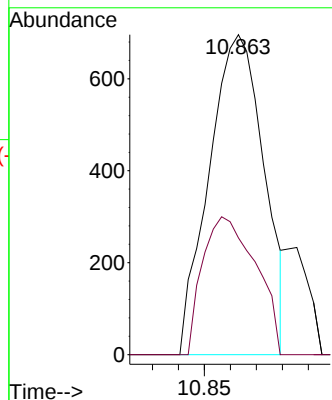
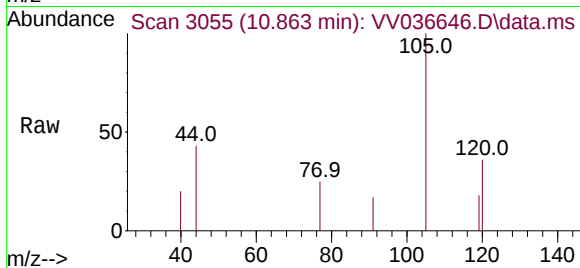
ClientSampleId :

Tgt Ion:105 Resp: 1021

Ion Ratio Lower Upper

105 100

120 41.8 39.8 59.8



#63

1,2,4-Trimethylbenzene

Concen: 0.385 ug/L

RT: 10.863 min Scan# 3055

Delta R.T. 0.016 min

Lab File: VV036646.D

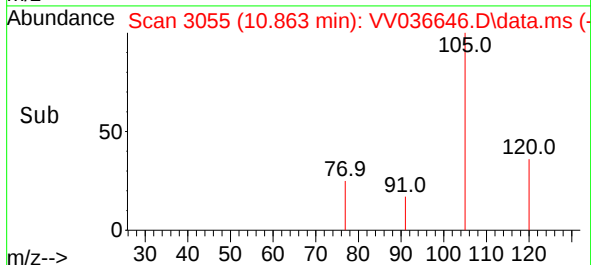
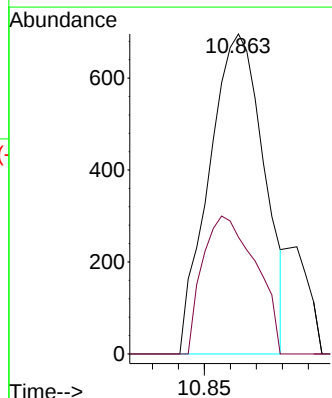
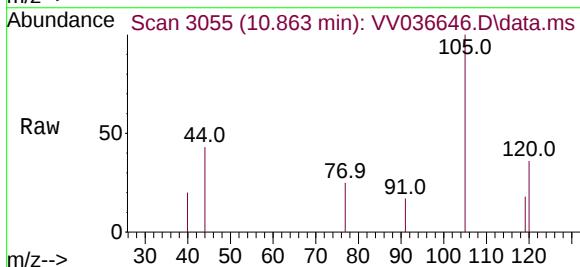
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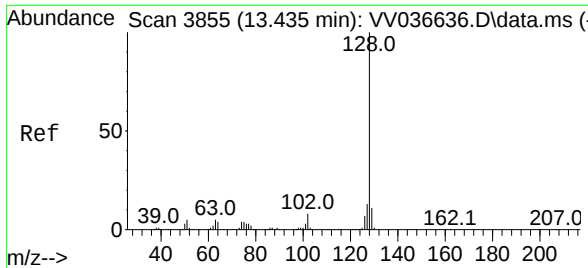
Tgt Ion:105 Resp: 1021

Ion Ratio Lower Upper

105 100

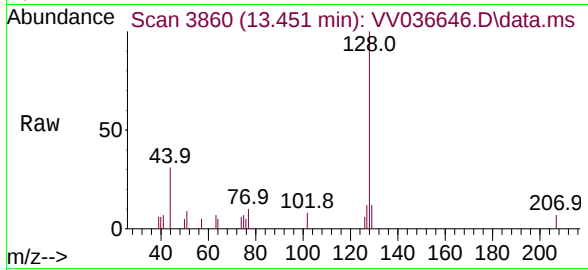
120 41.8 37.2 55.8





#71  
 Naphthalene  
 Concen: 2.550 ug/L  
 RT: 13.451 min Scan# 3860  
 Delta R.T. 0.016 min  
 Lab File: VV036646.D  
 Acq: 23 Jul 2024 15:07

Instrument :  
 MSVOA\_V  
 ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 4566  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 12.9  | 10.4  | 15.6  |
| 129       | 7.4   | 8.7   | 13.1# |

