

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV112524\  
 Data File : VV038346.D  
 Acq On : 25 Nov 2024 16:04  
 Operator : SY/MD  
 Sample : P4930-03DL 2X  
 Misc : 25mL/MSVOA\_V/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :

Quant Time: Nov 26 00:45:15 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111924WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Tue Nov 26 00:39:03 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.526  | 114   | 229270   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.780  | 117   | 247636   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.178 | 152   | 102047   | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.275  | 65    | 53326    | 3.035    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 60.600%  |
| 7) Chloroethane-d5            | 1.526  | 69    | 63521    | 4.469    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 89.400%  |
| 11) 1,1-Dichloroethene-d2     | 2.047  | 65    | 26276    | 3.475    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 69.400%  |
| 20) 2-Butanone-d5             | 3.799  | 46    | 192844   | 54.856   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 109.720% |
| 24) Chloroform-d              | 4.240  | 84    | 152224   | 4.463    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 89.200%  |
| 26) 1,2-Dichloroethane-d4     | 4.937  | 65    | 77386    | 5.057    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 101.200% |
| 32) Benzene-d6                | 4.950  | 84    | 254930   | 3.983    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 79.600%  |
| 36) 1,2-Dichloropropane-d6    | 5.982  | 67    | 92136    | 4.678    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 93.600%  |
| 41) Toluene-d8                | 7.236  | 98    | 195736   | 3.305    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 66.200%# |
| 43) trans-1,3-Dichloroprop... | 7.555  | 79    | 28913    | 3.949    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 79.000%  |
| 46) 2-Hexanone-d5             | 8.024  | 63    | 151805   | 53.335   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 106.660% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.146 | 84    | 81283    | 4.862    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 97.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.554 | 152   | 81696    | 4.699    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 94.000%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 9) Trichlorofluoromethane     | 1.699  | 101   | 4797     | 0.159    | ug/L   | 93       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.056  | 101   | 8018     | 0.466    | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.060  | 96    | 34923    | 2.133    | ug/L   | 86       |
| 16) Methylene chloride        | 2.439  | 84    | 16598    | 0.889    | ug/L   | 91       |
| 19) 1,1-Dichloroethane        | 3.105  | 63    | 10169    | 0.325    | ug/L   | 98       |
| 22) cis-1,2-Dichloroethene    | 3.809  | 96    | 42966    | 2.409    | ug/L   | 98       |
| 25) Chloroform                | 4.265  | 83    | 21786    | 0.650    | ug/L   | 93       |
| 27) 1,2-Dichloroethane        | 5.066  | 62    | 3322     | 0.182    | ug/L # | 93       |
| 29) 1,1,1-Trichloroethane     | 4.503  | 97    | 18139    | 0.611    | ug/L   | 95       |
| 31) Carbon tetrachloride      | 4.722  | 117   | 5138     | 0.196    | ug/L   | 97       |
| 34) Trichloroethene           | 5.822  | 95    | 211861   | 11.173   | ug/L   | 98       |
| 35) Methylcyclohexane         | 5.982  | 83    | 21979    | 0.819    | ug/L # | 19       |
| 37) 1,2-Dichloropropane       | 5.985  | 63    | 10555    | 0.606    | ug/L # | 88       |
| 42) Toluene                   | 7.333  | 91    | 8218     | 0.112    | ug/L   | 85       |
| 47) Tetrachloroethene         | 7.895  | 164   | 79731    | 5.233    | ug/L   | 98       |
| 49) Dibromochloromethane      | 7.895  | 129   | 72858    | 4.729    | ug/L # | 11       |
| 61) 1,2,3-Trichloropropane    | 11.178 | 75    | 12872    | 1.473    | ug/L # | 66       |
| -----                         |        |       |          |          |        |          |

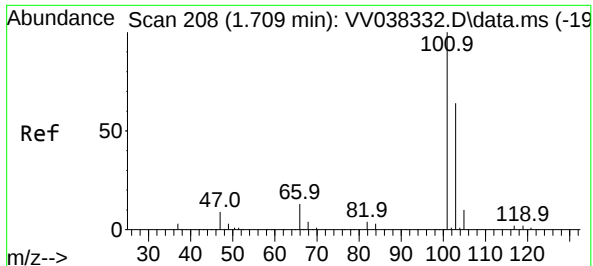
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\DATA\VV112524\  
Data File : VV038346.D  
Acq On : 25 Nov 2024 16:04  
Operator : SY/MD  
Sample : P4930-03DL 2X  
Misc : 25mL/MSVOA\_V/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :

Quant Time: Nov 26 00:45:15 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR111924WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Tue Nov 26 00:39:03 2024  
Response via : Initial Calibration

| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

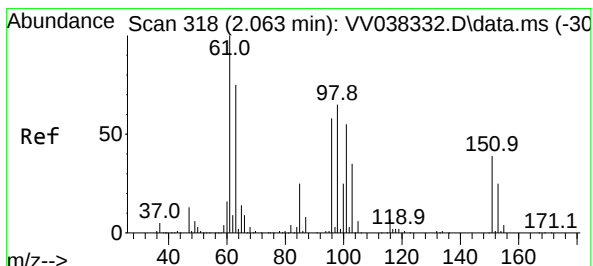
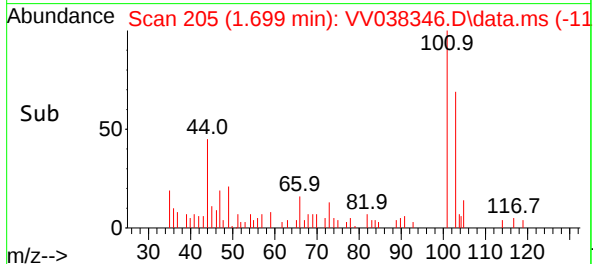
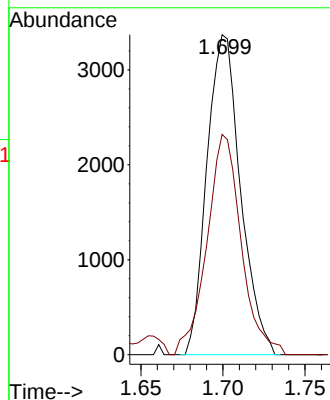
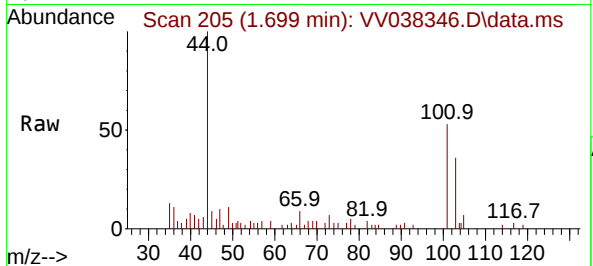




#9  
Trichlorofluoromethane  
Concen: 0.159 ug/L  
RT: 1.699 min Scan# 208  
Delta R.T. -0.010 min  
Lab File: VV038346.D  
Acq: 25 Nov 2024 16:04

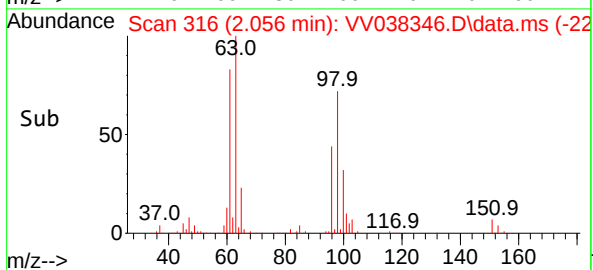
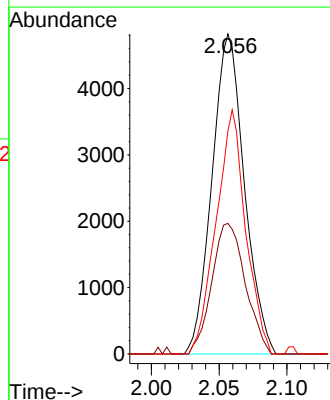
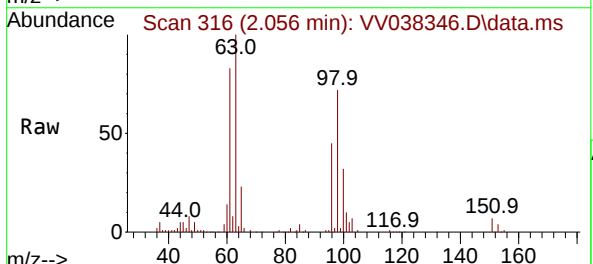
Instrument :  
MSVOA\_V  
ClientSampleId :

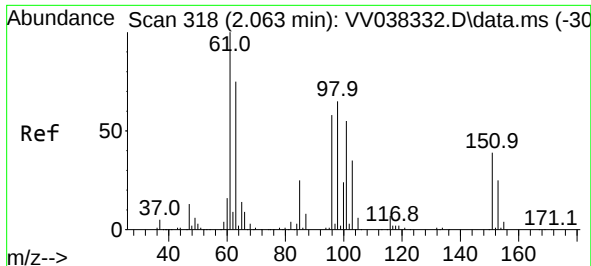
Tgt Ion:101 Resp: 4797  
Ion Ratio Lower Upper  
101 100  
103 70.2 51.5 77.3



#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.466 ug/L  
RT: 2.056 min Scan# 316  
Delta R.T. -0.006 min  
Lab File: VV038346.D  
Acq: 25 Nov 2024 16:04

Tgt Ion:101 Resp: 8018  
Ion Ratio Lower Upper  
101 100  
85 42.1 33.4 50.0  
151 69.6 58.8 88.2





#12

1,1-Dichloroethene

Concen: 2.133 ug/L

RT: 2.060 min Scan# 318

Delta R.T. -0.003 min

Lab File: VV038346.D

Acq: 25 Nov 2024 16:04

Instrument :

MSVOA\_V

ClientSampleId :

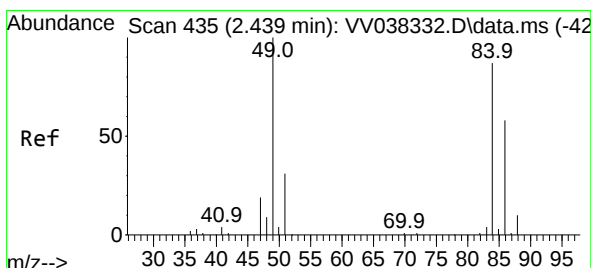
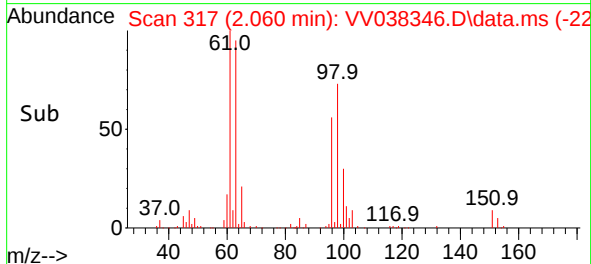
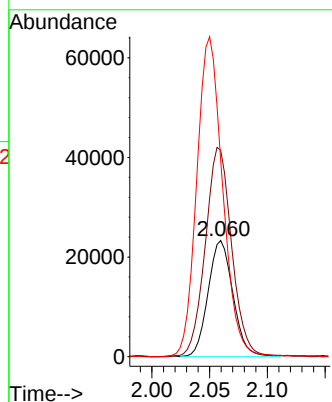
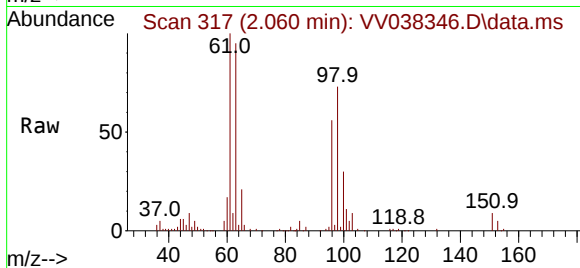
Tgt Ion: 96 Resp: 34923

Ion Ratio Lower Upper

96 100

61 177.8 115.7 214.9

63 169.1 101.1 187.7



#16

Methylene chloride

Concen: 0.889 ug/L

RT: 2.439 min Scan# 435

Delta R.T. -0.000 min

Lab File: VV038346.D

Acq: 25 Nov 2024 16:04

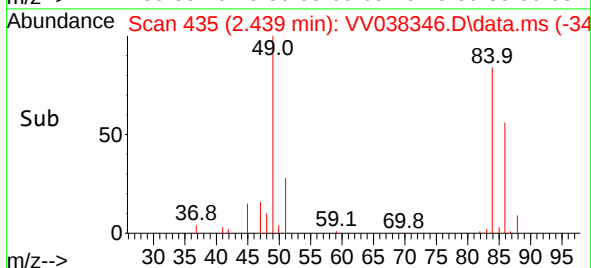
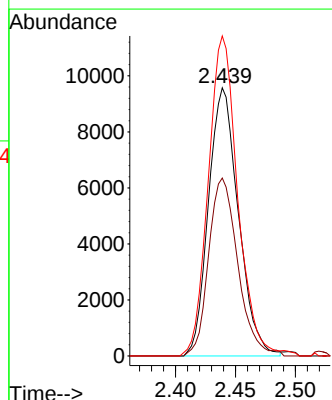
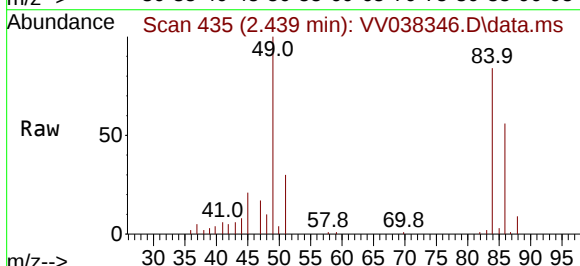
Tgt Ion: 84 Resp: 16598

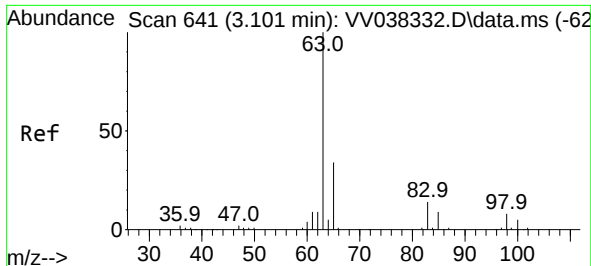
Ion Ratio Lower Upper

84 100

86 66.4 44.2 82.2

49 119.3 74.9 139.1





#19

1,1-Dichloroethane

Concen: 0.325 ug/L

RT: 3.105 min Scan# 641

Delta R.T. 0.003 min

Lab File: VV038346.D

Acq: 25 Nov 2024 16:04

Instrument :

MSVOA\_V

ClientSampleId :

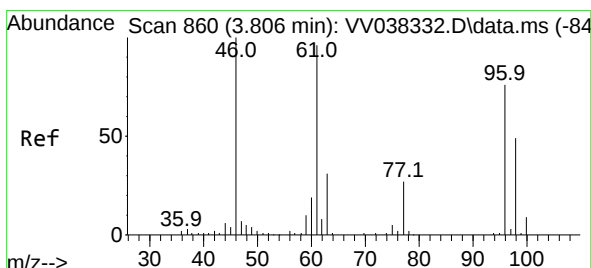
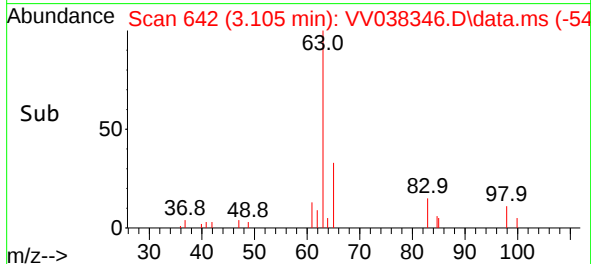
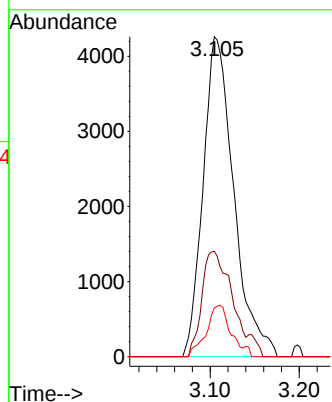
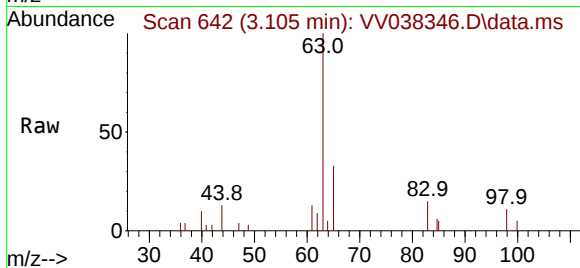
Tgt Ion: 63 Resp: 10169

Ion Ratio Lower Upper

63 100

65 33.0 22.5 41.7

83 15.2 10.1 18.9



#22

cis-1,2-Dichloroethene

Concen: 2.409 ug/L

RT: 3.809 min Scan# 861

Delta R.T. 0.003 min

Lab File: VV038346.D

Acq: 25 Nov 2024 16:04

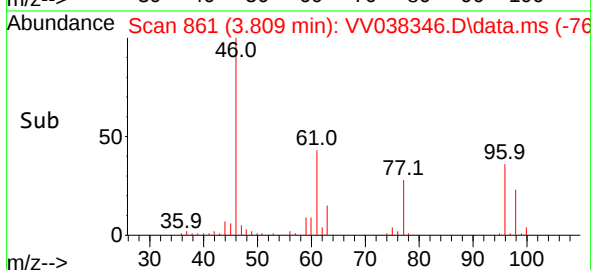
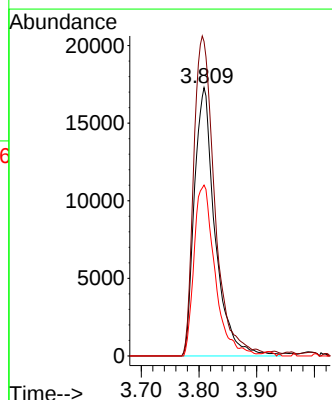
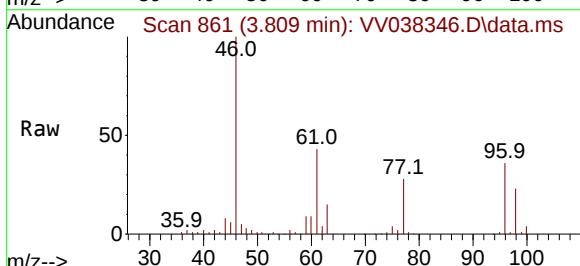
Tgt Ion: 96 Resp: 42966

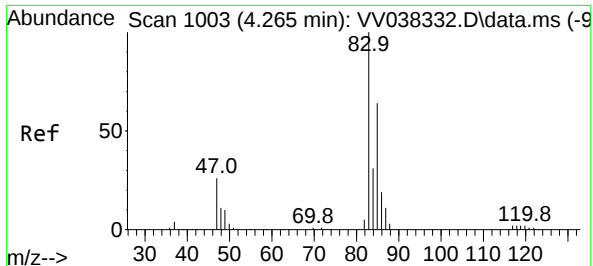
Ion Ratio Lower Upper

96 100

61 117.2 82.7 153.5

98 63.7 46.3 85.9





#25

Chloroform

Concen: 0.650 ug/L

RT: 4.265 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV038346.D

Acq: 25 Nov 2024 16:04

Instrument :

MSVOA\_V

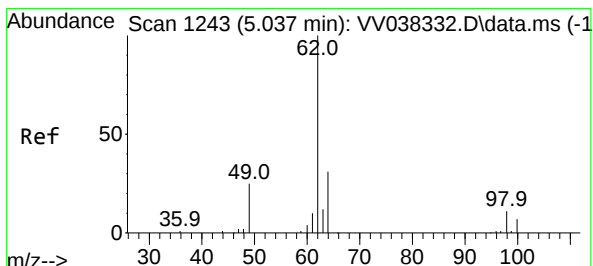
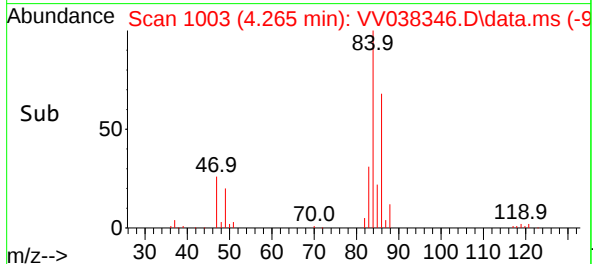
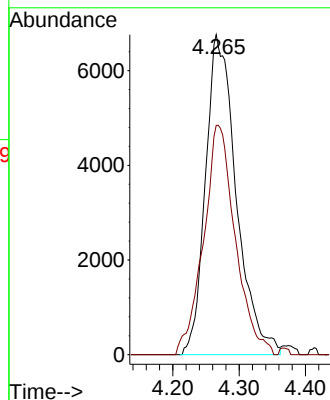
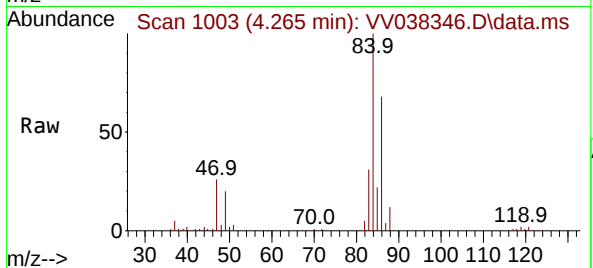
ClientSampleId :

Tgt Ion: 83 Resp: 21786

Ion Ratio Lower Upper

83 100

85 71.6 46.5 86.3



#27

1,2-Dichloroethane

Concen: 0.182 ug/L

RT: 5.066 min Scan# 1252

Delta R.T. 0.029 min

Lab File: VV038346.D

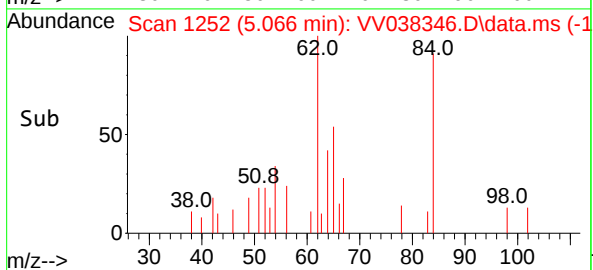
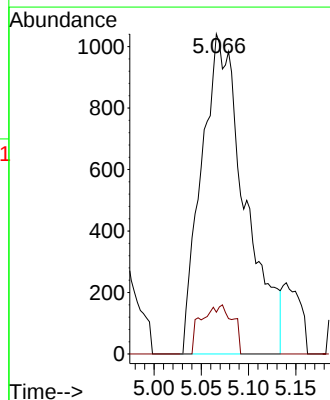
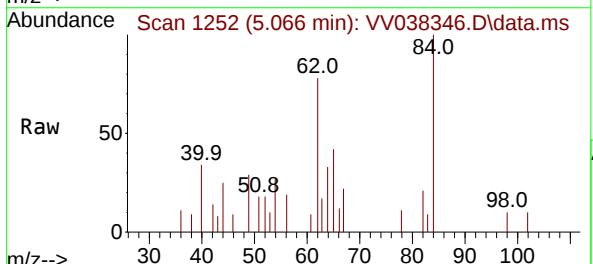
Acq: 25 Nov 2024 16:04

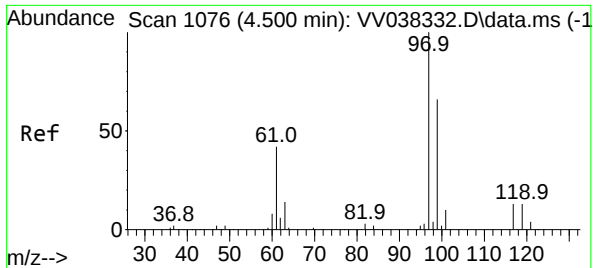
Tgt Ion: 62 Resp: 3322

Ion Ratio Lower Upper

62 100

98 13.1 8.2 12.4#

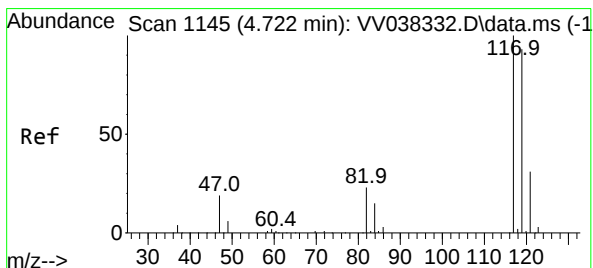
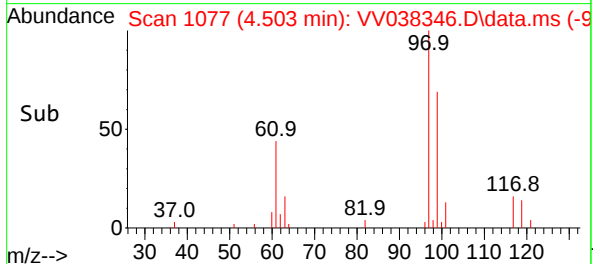
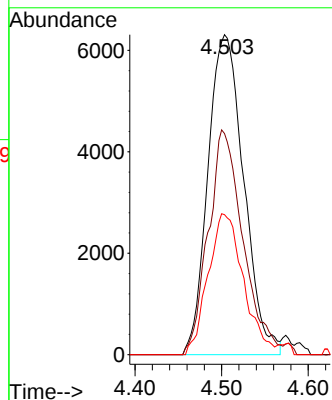
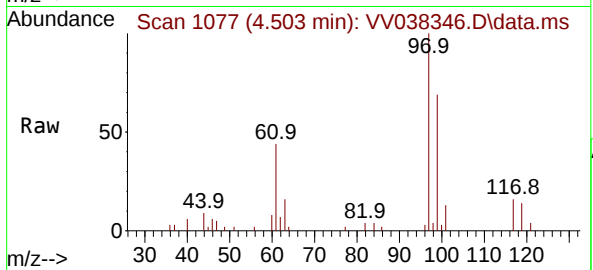




#29  
1,1,1-Trichloroethane  
Concen: 0.611 ug/L  
RT: 4.503 min Scan# 1076  
Delta R.T. 0.003 min  
Lab File: VV038346.D  
Acq: 25 Nov 2024 16:04

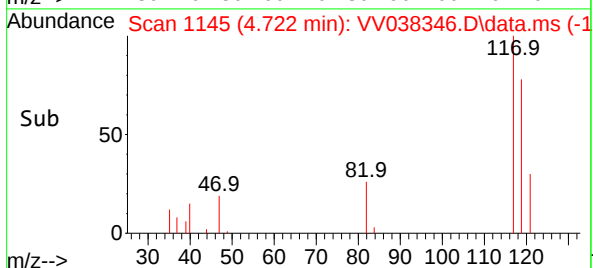
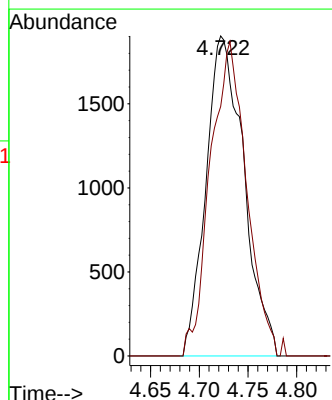
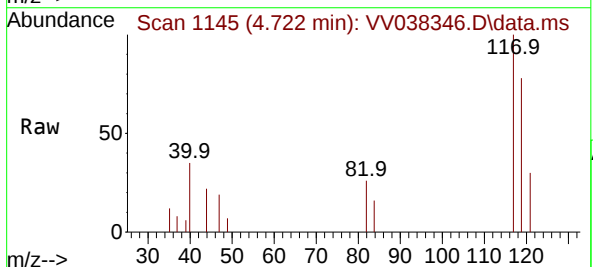
Instrument :  
MSVOA\_V  
ClientSampleId :

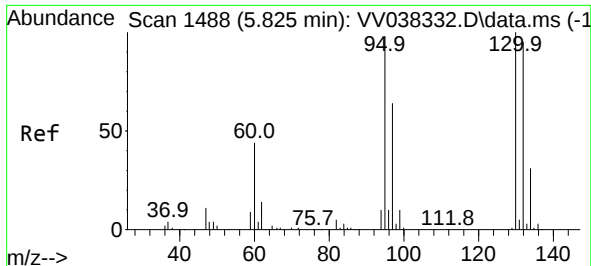
Tgt Ion: 97 Resp: 18139  
Ion Ratio Lower Upper  
97 100  
99 68.0 51.8 77.8  
61 43.4 32.2 48.2



#31  
Carbon tetrachloride  
Concen: 0.196 ug/L  
RT: 4.722 min Scan# 1145  
Delta R.T. -0.000 min  
Lab File: VV038346.D  
Acq: 25 Nov 2024 16:04

Tgt Ion: 117 Resp: 5138  
Ion Ratio Lower Upper  
117 100  
119 93.8 77.4 116.2





#34

Trichloroethene

Concen: 11.173 ug/L

RT: 5.822 min Scan# 1488

Delta R.T. -0.003 min

Lab File: VV038346.D

Acq: 25 Nov 2024 16:04

Instrument :

MSVOA\_V

ClientSampleId :

Tgt Ion: 95 Resp: 211861

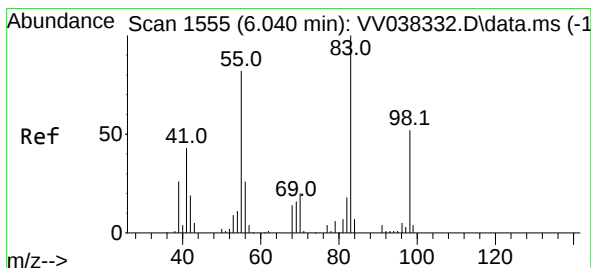
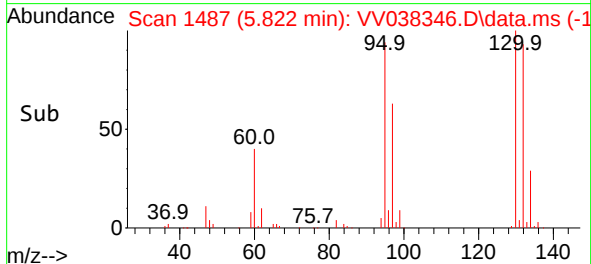
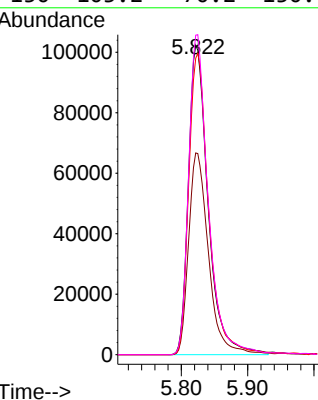
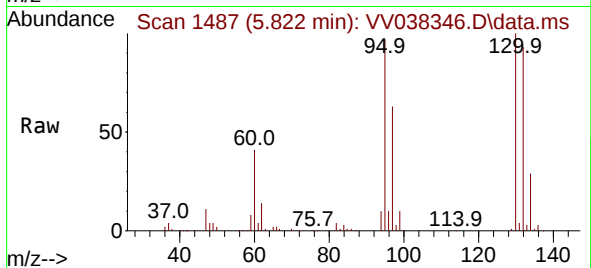
Ion Ratio Lower Upper

95 100

97 65.2 44.8 83.2

132 95.7 68.3 126.8

130 103.2 70.2 130.4



#35

Methylcyclohexane

Concen: 0.819 ug/L

RT: 5.982 min Scan# 1537

Delta R.T. -0.058 min

Lab File: VV038346.D

Acq: 25 Nov 2024 16:04

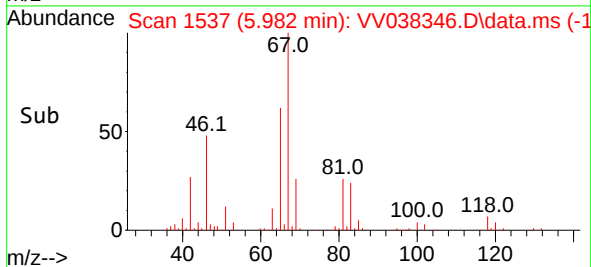
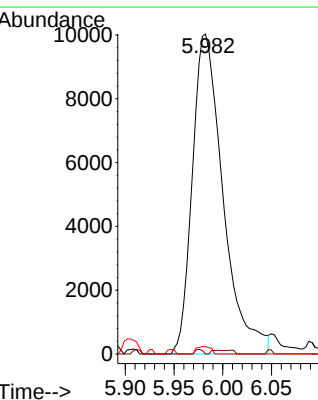
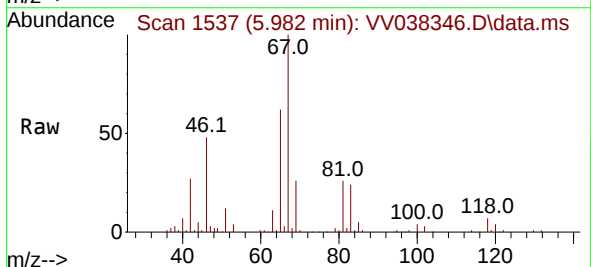
Tgt Ion: 83 Resp: 21979

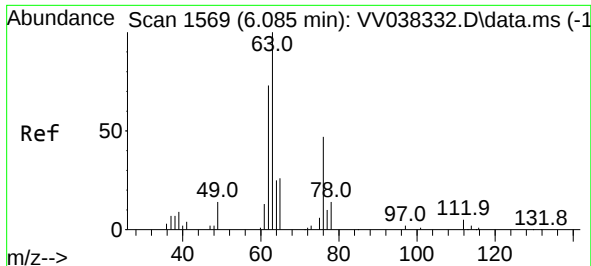
Ion Ratio Lower Upper

83 100

55 0.3 59.7 89.5#

98 1.1 39.0 58.4#





#37

1,2-Dichloropropane

Concen: 0.606 ug/L

RT: 5.985 min Scan# 1

Delta R.T. -0.100 min

Lab File: VV038346.D

Acq: 25 Nov 2024 16:04

Instrument :

MSVOA\_V

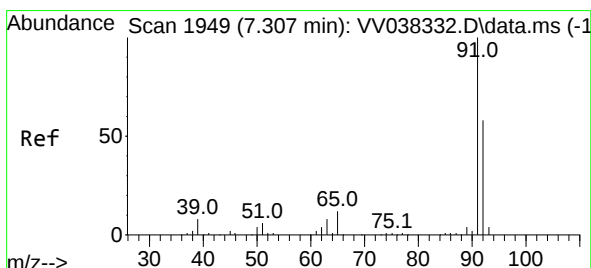
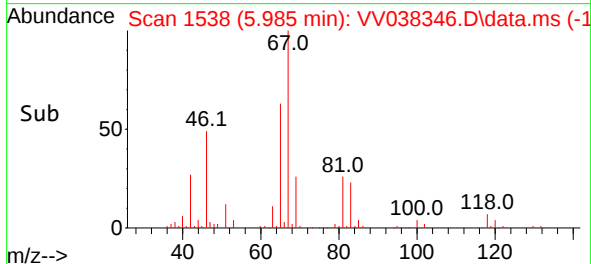
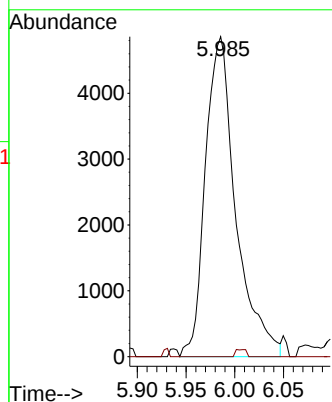
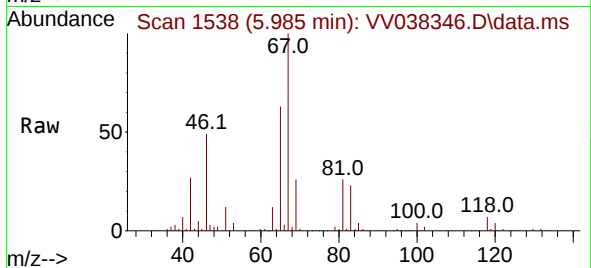
ClientSampleId :

Tgt Ion: 63 Resp: 10555

Ion Ratio Lower Upper

63 100

112 0.8 3.9 5.9#



#42

Toluene

Concen: 0.112 ug/L

RT: 7.333 min Scan# 1957

Delta R.T. 0.026 min

Lab File: VV038346.D

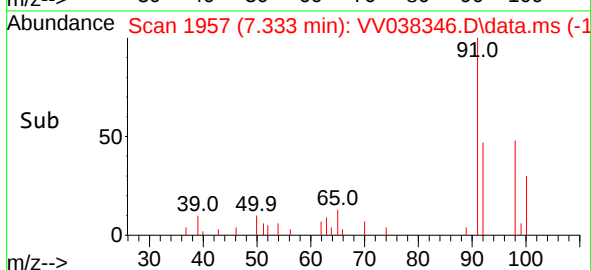
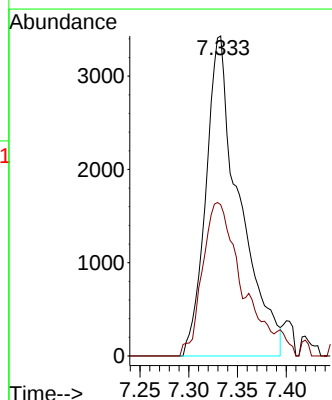
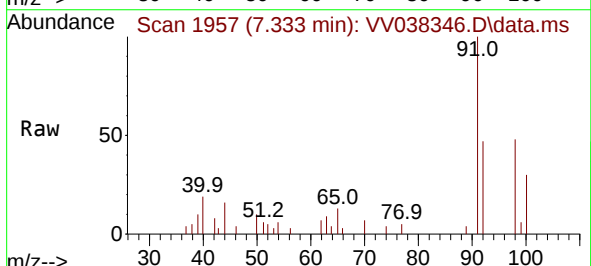
Acq: 25 Nov 2024 16:04

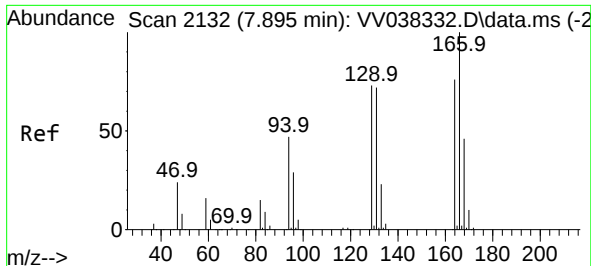
Tgt Ion: 91 Resp: 8218

Ion Ratio Lower Upper

91 100

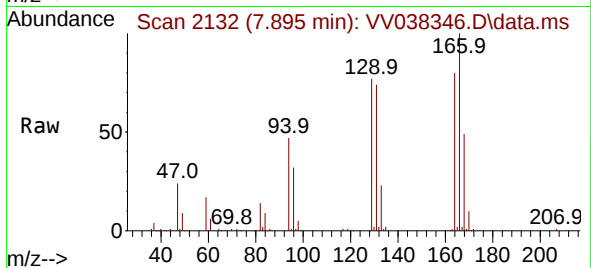
92 47.3 40.8 75.8



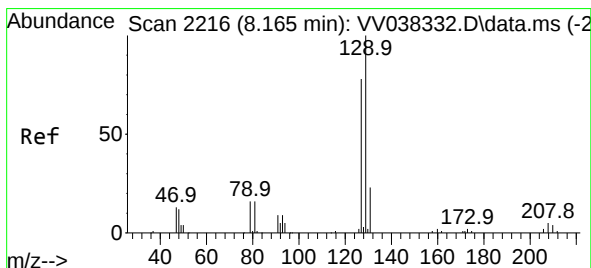
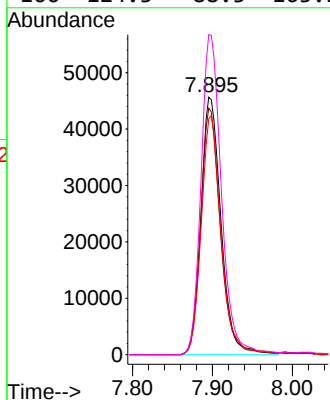
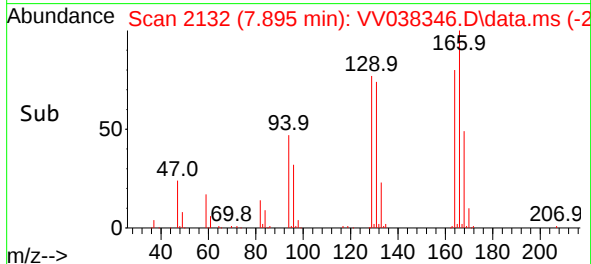


#47  
Tetrachloroethene  
Concen: 5.233 ug/L  
RT: 7.895 min Scan# 2132  
Delta R.T. -0.000 min  
Lab File: VV038346.D  
Acq: 25 Nov 2024 16:04

Instrument :  
MSVOA\_V  
ClientSampleId :

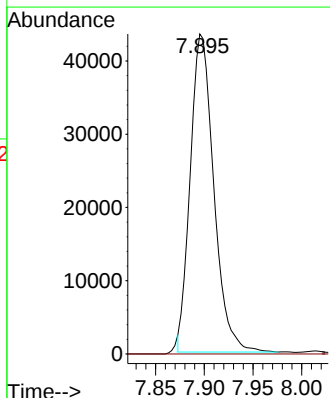
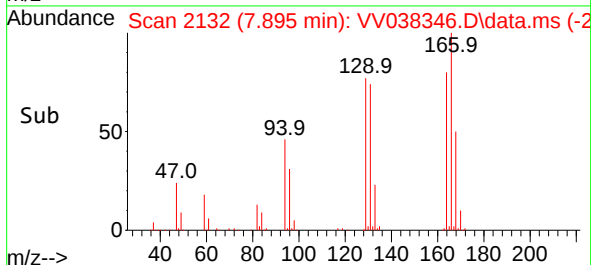
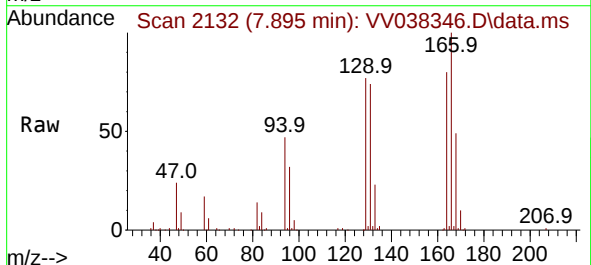


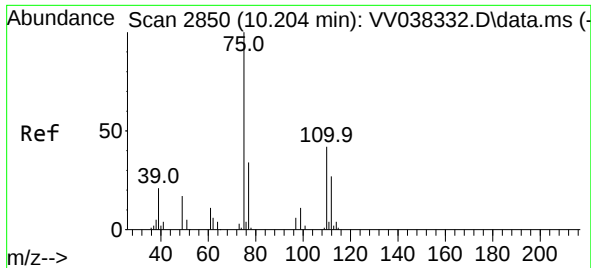
Tgt Ion:164 Resp: 79731  
Ion Ratio Lower Upper  
164 100  
129 95.7 68.5 127.1  
131 91.6 64.8 120.4  
166 124.3 88.3 163.9



#49  
Dibromochloromethane  
Concen: 4.729 ug/L  
RT: 7.895 min Scan# 2132  
Delta R.T. -0.270 min  
Lab File: VV038346.D  
Acq: 25 Nov 2024 16:04

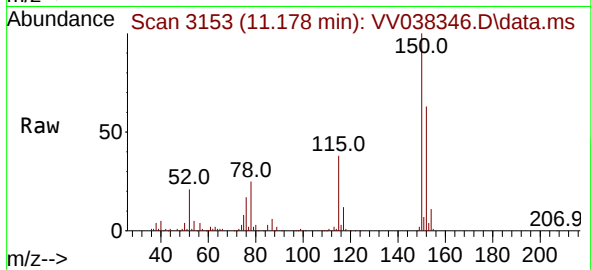
Tgt Ion:129 Resp: 72858  
Ion Ratio Lower Upper  
129 100  
127 0.0 53.5 99.3#





#61  
1,2,3-Trichloropropane  
Concen: 1.473 ug/L  
RT: 11.178 min Scan# 31  
Delta R.T. 0.974 min  
Lab File: VV038346.D  
Acq: 25 Nov 2024 16:04

Instrument :  
MSVOA\_V  
ClientSampleId :



Tgt Ion: 75 Resp: 12872  
Ion Ratio Lower Upper  
75 100  
77 33.0 26.4 39.6  
110 2.5 32.3 48.5#

