

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU122921\  
 Data File : VU046635.D  
 Acq On : 29 Dec 2021 18:37  
 Operator : SY/MD  
 Sample : M5193-02RE  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0J04RE

Quant Time: Dec 30 04:23:38 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122121WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Thu Dec 30 04:21:35 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|--------|-----------|
| -----                         |        |       |          |          |        |           |
| Internal Standards            |        |       |          |          |        |           |
| 1) 1,4-Difluorobenzene        | 6.253  | 114   | 53842    | 5.000    | ug/L   | 0.00      |
| 28) Chlorobenzene-d5          | 9.420  | 117   | 60531    | 5.000    | ug/L   | 0.00      |
| 58) 1,4-Dichlorobenzene-d4    | 11.812 | 152   | 26813    | 5.000    | ug/L   | 0.00      |
| System Monitoring Compounds   |        |       |          |          |        |           |
| 4) Vinyl Chloride-d3          | 1.600  | 65    | 35020    | 8.257    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 165.200%# |
| 7) Chloroethane-d5            | 1.919  | 69    | 24647    | 7.380    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 147.600%# |
| 11) 1,1-Dichloroethene-d2     | 2.571  | 65    | 13996    | 7.826    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 156.600%# |
| 20) 2-Butanone-d5             | 4.645  | 46    | 81531    | 66.277   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 132.560%# |
| 24) Chloroform-d              | 5.066  | 84    | 56292    | 7.244    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 144.800%# |
| 26) 1,2-Dichloroethane-d4     | 5.706  | 65    | 32307    | 7.272    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 145.400%# |
| 32) Benzene-d6                | 5.732  | 84    | 104088   | 6.169    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 123.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.693  | 67    | 32993    | 6.507    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 130.200%  |
| 41) Toluene-d8                | 7.899  | 98    | 81922    | 5.349    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 107.000%  |
| 43) trans-1,3-Dichloroprop... | 8.182  | 79    | 12755    | 5.439    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 108.800%  |
| 46) 2-Hexanone-d5             | 8.635  | 63    | 67445    | 48.986   | ug/L   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 97.980%   |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758 | 84    | 29959    | 5.757    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 115.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195 | 152   | 32639    | 6.608    | ug/L   | 0.00      |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 132.200%# |
| Target Compounds              |        |       |          |          |        |           |
|                               |        |       |          |          | Qvalue |           |
| 3) Chloromethane              | 1.523  | 50    | 1278     | 0.180    | ug/L # | 42        |
| 8) Chloroethane               | 1.983  | 64    | 979      | 0.239    | ug/L # | 50        |
| 9) Trichlorofluoromethane     | 2.147  | 101   | 1386     | 0.152    | ug/L   | 93        |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.568  | 101   | 378      | 0.081    | ug/L # | 21        |
| 12) 1,1-Dichloroethene        | 2.581  | 96    | 729      | 0.154    | ug/L # | 1         |
| 18) trans-1,2-Dichloroethene  | 3.359  | 96    | 672      | 0.133    | ug/L # | 74        |
| 19) 1,1-Dichloroethane        | 3.874  | 63    | 1223     | 0.131    | ug/L # | 82        |
| 22) cis-1,2-Dichloroethene    | 4.671  | 96    | 5093     | 0.922    | ug/L   | 94        |
| 29) 1,1,1-Trichloroethane     | 5.320  | 97    | 5845     | 0.584    | ug/L   | 97        |
| 31) Carbon tetrachloride      | 5.317  | 117   | 665      | 0.079    | ug/L   | 84        |
| 34) Trichloroethene           | 6.542  | 95    | 6535     | 1.031    | ug/L   | 96        |
| 35) Methylcyclohexane         | 6.693  | 83    | 8060     | 0.902    | ug/L # | 17        |
| 37) 1,2-Dichloropropane       | 6.693  | 63    | 3564     | 0.581    | ug/L # | 88        |
| 39) cis-1,3-Dichloropropene   | 7.568  | 75    | 877      | 0.094    | ug/L # | 69        |
| 47) Tetrachloroethene         | 8.555  | 164   | 5463     | 1.218    | ug/L   | 93        |
| 49) Dibromochloromethane      | 8.555  | 129   | 5096     | 0.835    | ug/L # | 10        |
| 61) 1,2,3-Trichloropropane    | 11.812 | 75    | 3497     | 0.785    | ug/L # | 66        |
| -----                         |        |       |          |          |        |           |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU122921\  
Data File : VU046635.D  
Acq On : 29 Dec 2021 18:37  
Operator : SY/MD  
Sample : M5193-02RE  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0J04RE

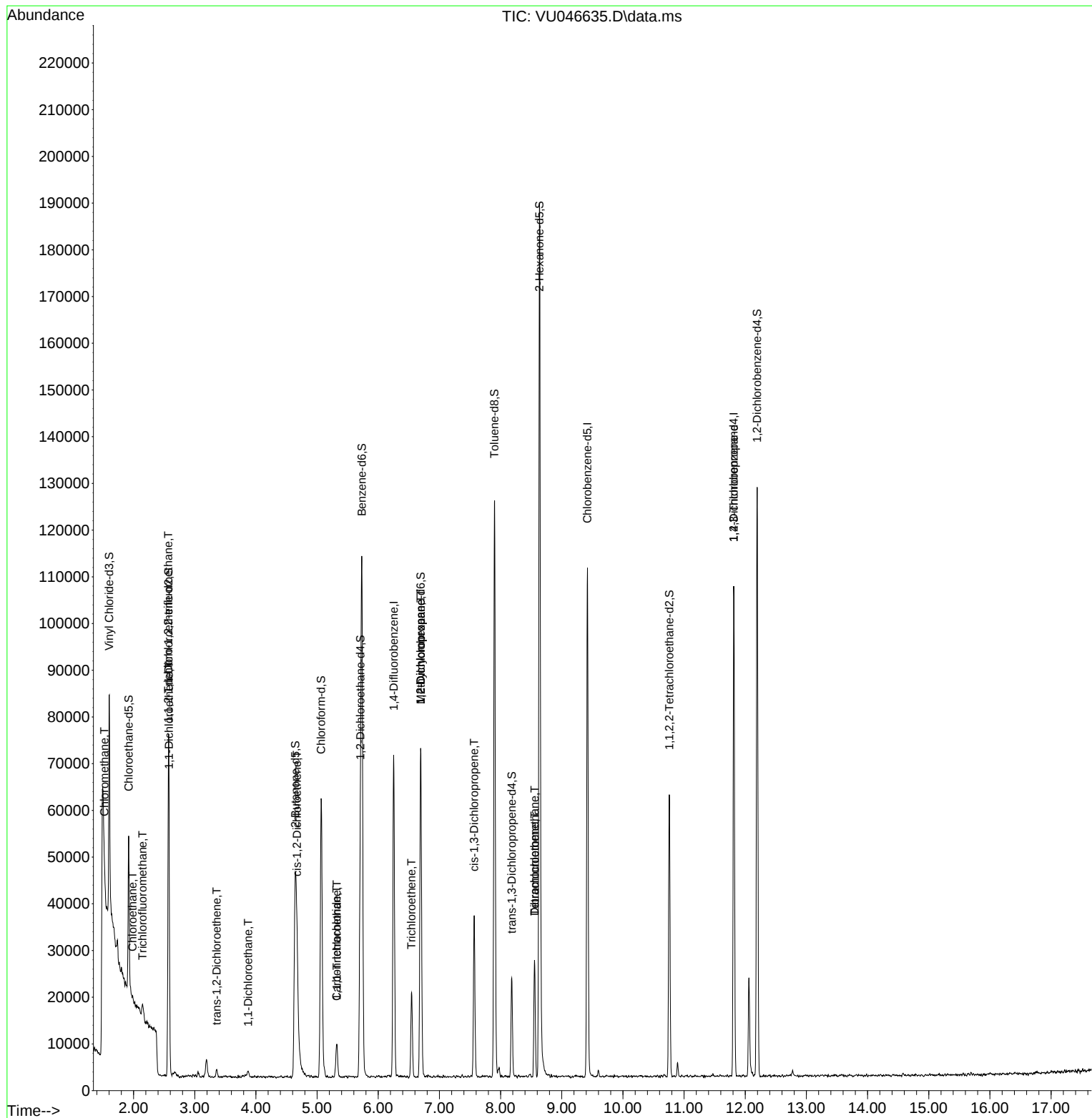
Quant Time: Dec 30 04:23:38 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR122121WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Thu Dec 30 04:21:35 2021  
Response via : Initial Calibration

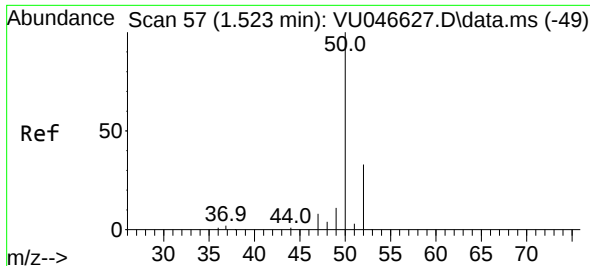
| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                             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

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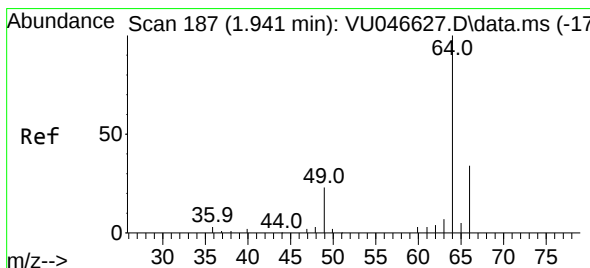
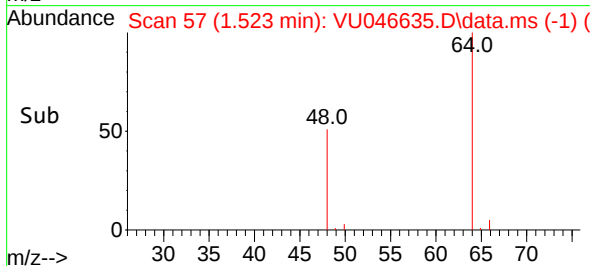
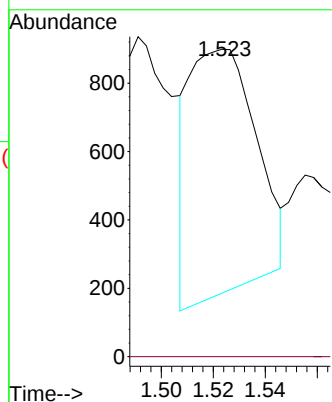
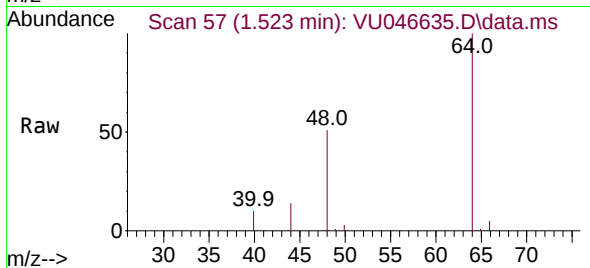




#3  
Chloromethane  
Concen: 0.180 ug/L  
RT: 1.523 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VU046635.D  
Acq: 29 Dec 2021 18:37

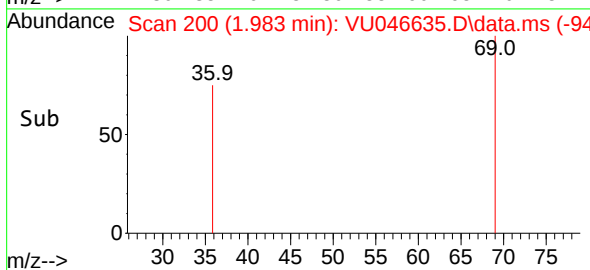
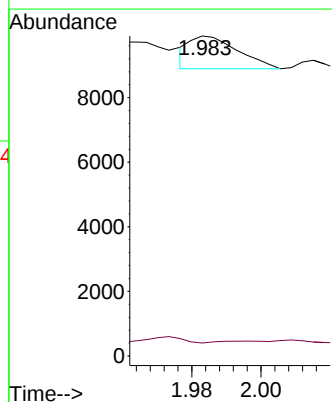
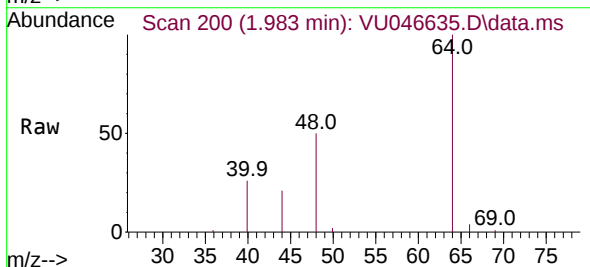
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0J04RE

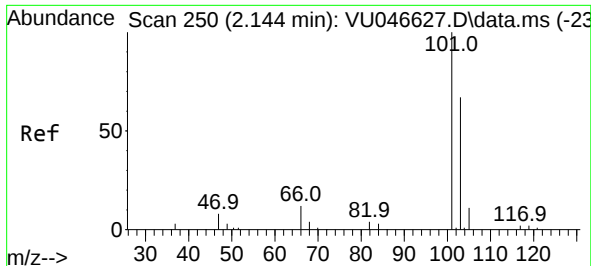
Tgt Ion: 50 Resp: 1278  
Ion Ratio Lower Upper  
50 100  
52 0.0 23.0 42.8#



#8  
Chloroethane  
Concen: 0.239 ug/L  
RT: 1.983 min Scan# 200  
Delta R.T. 0.042 min  
Lab File: VU046635.D  
Acq: 29 Dec 2021 18:37

Tgt Ion: 64 Resp: 979  
Ion Ratio Lower Upper  
64 100  
66 4.1 22.1 41.1#

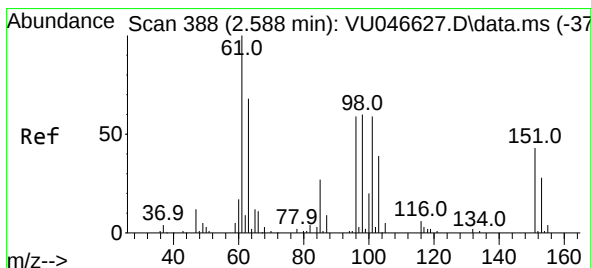
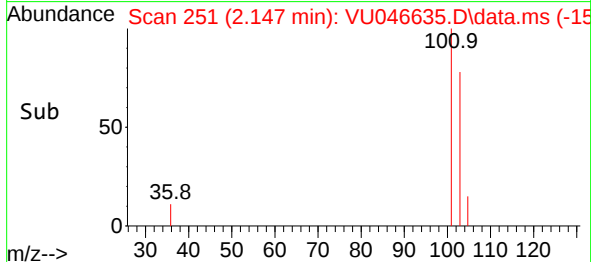
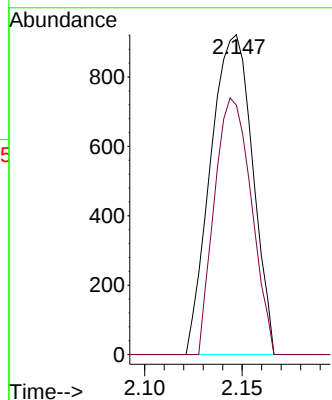
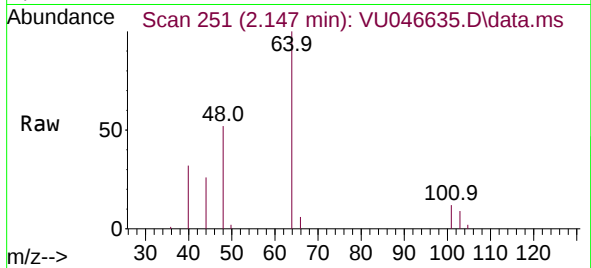




#9  
Trichlorofluoromethane  
Concen: 0.152 ug/L  
RT: 2.147 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU046635.D  
Acq: 29 Dec 2021 18:37

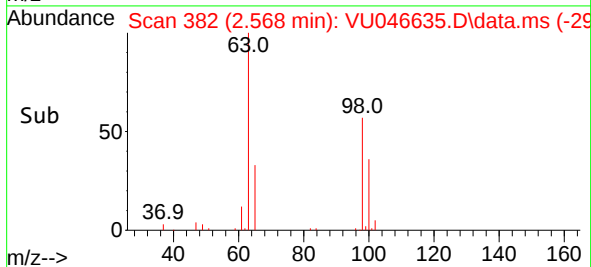
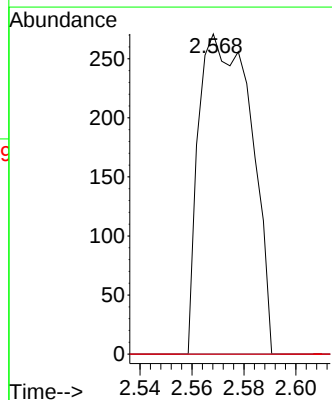
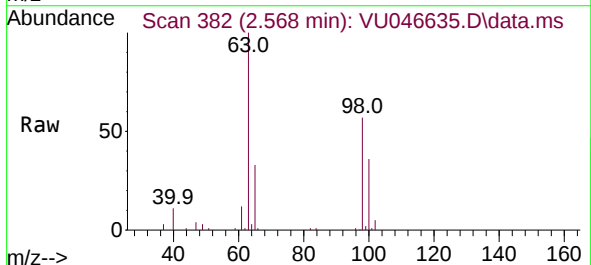
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0J04RE

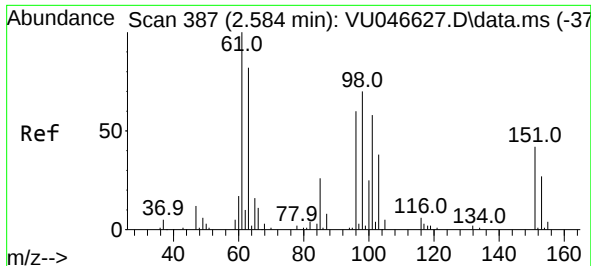
Tgt Ion:101 Resp: 1386  
Ion Ratio Lower Upper  
101 100  
103 70.0 51.5 77.3



#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.081 ug/L  
RT: 2.568 min Scan# 382  
Delta R.T. -0.020 min  
Lab File: VU046635.D  
Acq: 29 Dec 2021 18:37

Tgt Ion:101 Resp: 378  
Ion Ratio Lower Upper  
101 100  
85 0.0 34.6 51.8#  
151 0.0 56.1 84.1#





#12

1,1-Dichloroethene

Concen: 0.154 ug/L

RT: 2.581 min Scan# 387

Delta R.T. -0.003 min

Lab File: VU046635.D

Acq: 29 Dec 2021 18:37

Instrument :

MSVOA\_U

ClientSampleId :

C0J04RE

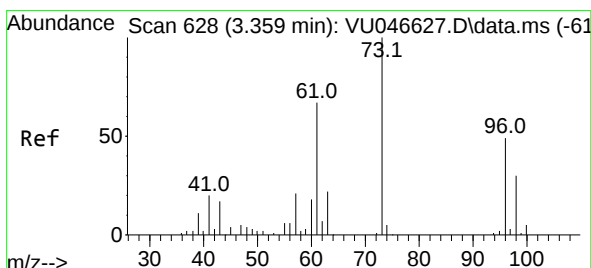
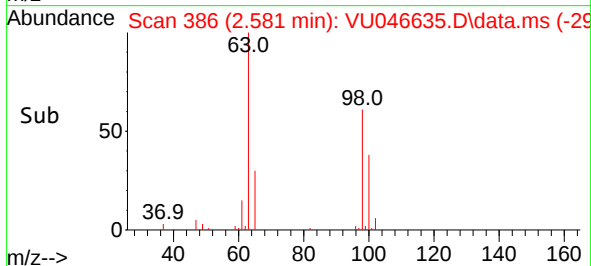
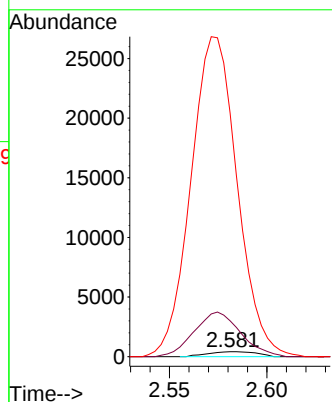
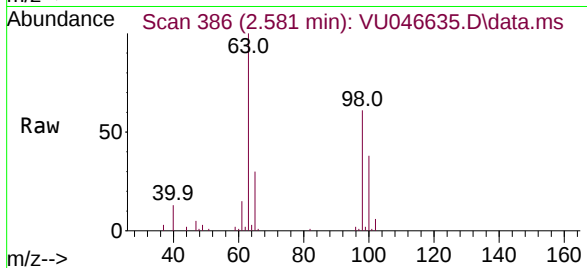
Tgt Ion: 96 Resp: 729

Ion Ratio Lower Upper

96 100

61 723.8 124.7 231.5#

63 4907.7 105.2 195.4#



#18

trans-1,2-Dichloroethene

Concen: 0.133 ug/L

RT: 3.359 min Scan# 628

Delta R.T. -0.000 min

Lab File: VU046635.D

Acq: 29 Dec 2021 18:37

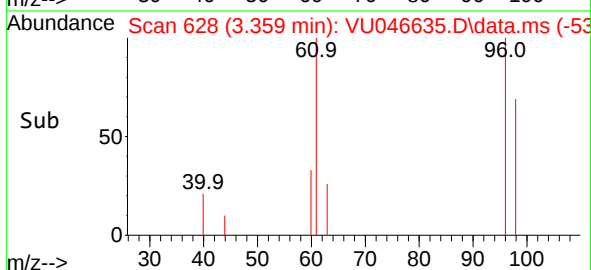
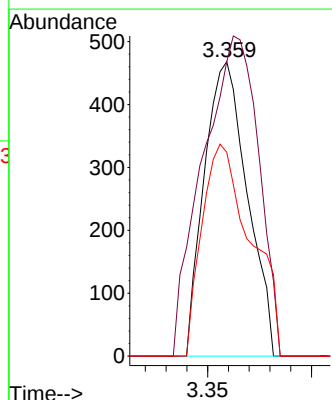
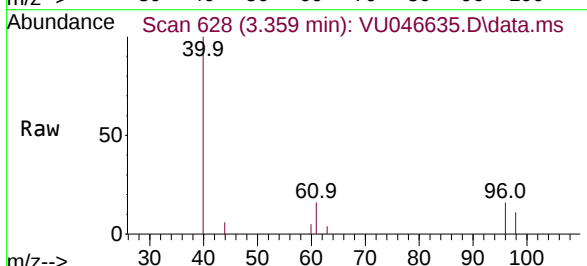
Tgt Ion: 96 Resp: 672

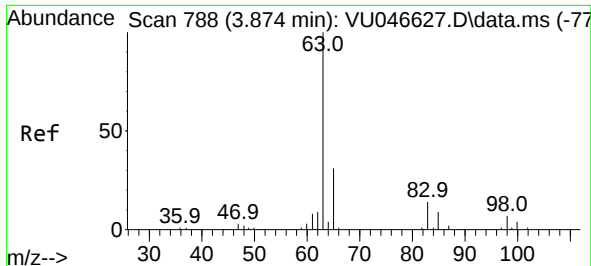
Ion Ratio Lower Upper

96 100

61 100.0 100.8 187.2#

98 69.2 45.1 83.7





#19

1,1-Dichloroethane

Concen: 0.131 ug/L

RT: 3.874 min Scan# 71

Delta R.T. -0.000 min

Lab File: VU046635.D

Acq: 29 Dec 2021 18:37

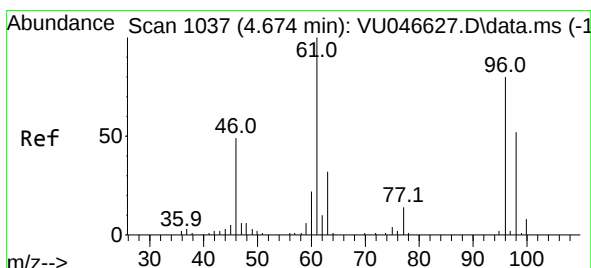
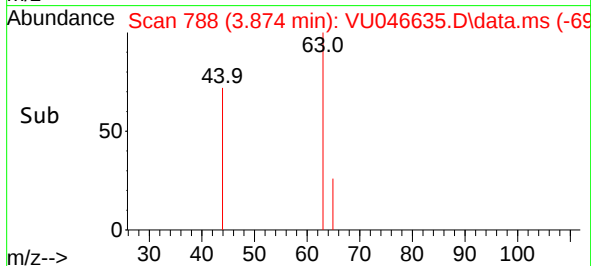
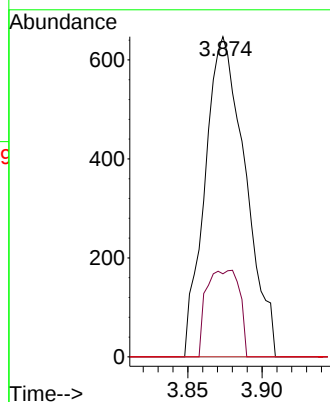
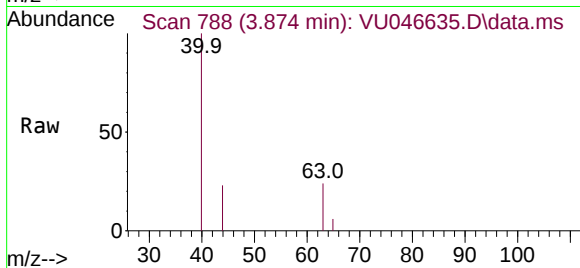
Instrument :

MSVOA\_U

ClientSampleId :

C0J04RE

|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 1223  |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 65 26.0     | 22.3 41.5   |
| 83 0.0      | 9.6 17.8#   |



#22

cis-1,2-Dichloroethene

Concen: 0.922 ug/L

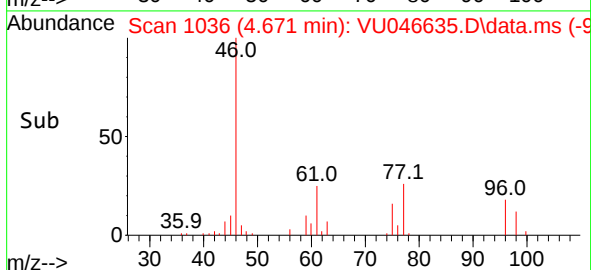
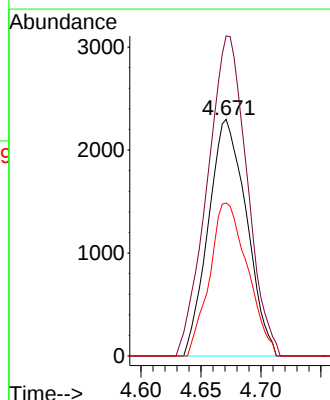
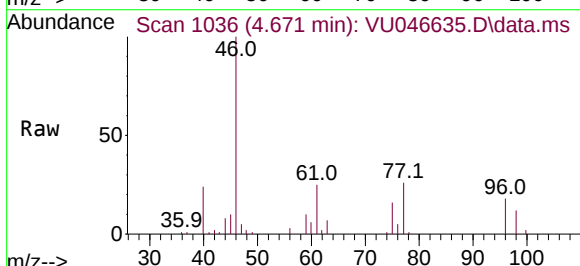
RT: 4.671 min Scan# 1036

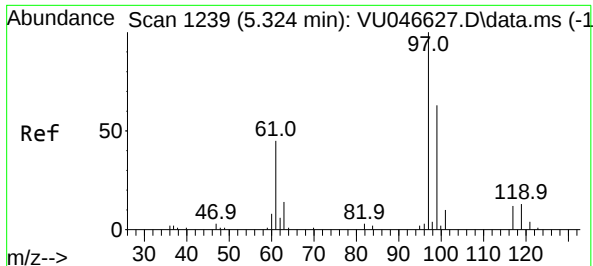
Delta R.T. -0.003 min

Lab File: VU046635.D

Acq: 29 Dec 2021 18:37

|             |            |       |  |
|-------------|------------|-------|--|
| Tgt Ion: 96 | Resp: 5093 |       |  |
| Ion Ratio   | Lower      | Upper |  |
| 96 100      |            |       |  |
| 61 135.2    | 88.5       | 164.3 |  |
| 98 64.7     | 44.4       | 82.5  |  |





#29

1,1,1-Trichloroethane

Concen: 0.584 ug/L

RT: 5.320 min Scan# 1238

Delta R.T. -0.003 min

Lab File: VU046635.D

Acq: 29 Dec 2021 18:37

Instrument :

MSVOA\_U

ClientSampleId :

C0J04RE

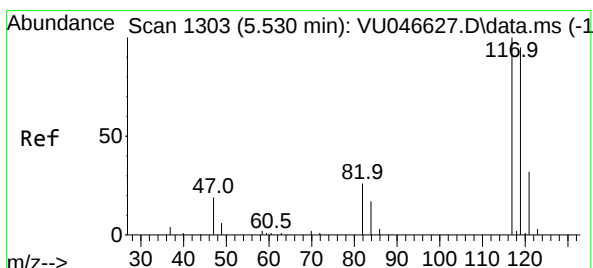
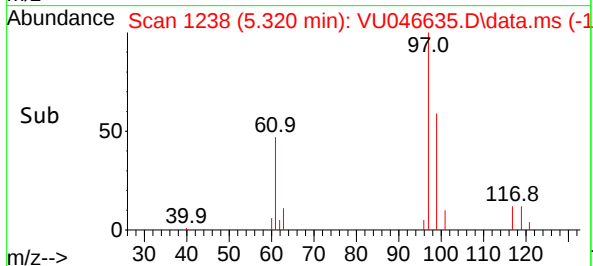
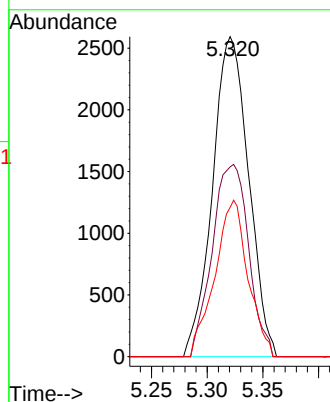
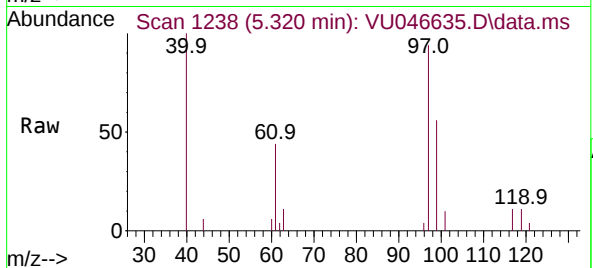
Tgt Ion: 97 Resp: 5845

Ion Ratio Lower Upper

97 100

99 60.6 51.3 76.9

61 44.9 36.1 54.1



#31

Carbon tetrachloride

Concen: 0.079 ug/L

RT: 5.317 min Scan# 1237

Delta R.T. -0.212 min

Lab File: VU046635.D

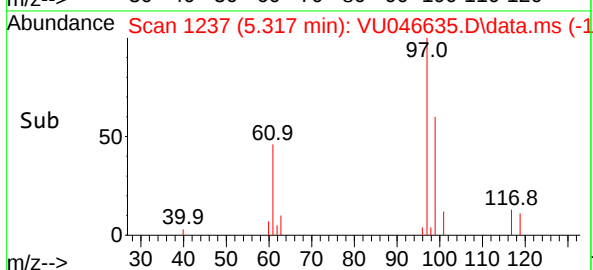
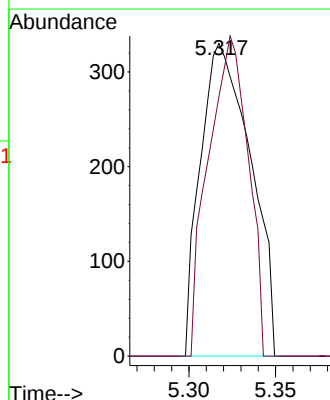
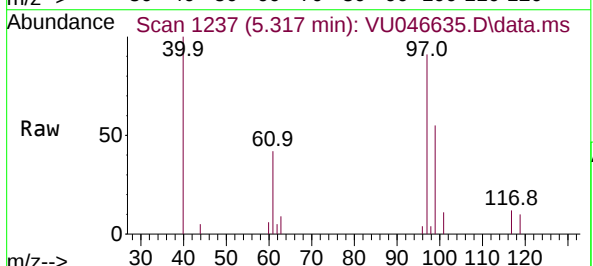
Acq: 29 Dec 2021 18:37

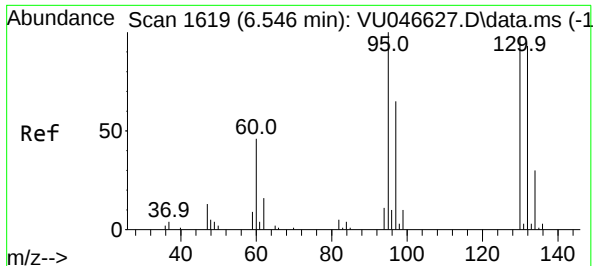
Tgt Ion: 117 Resp: 665

Ion Ratio Lower Upper

117 100

119 81.1 77.5 116.3



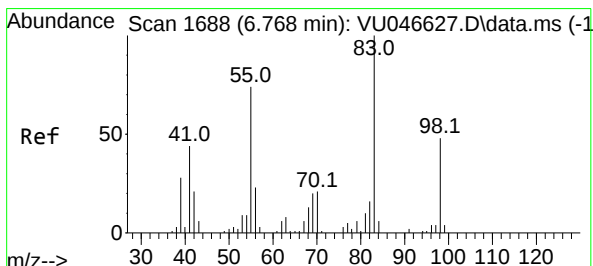
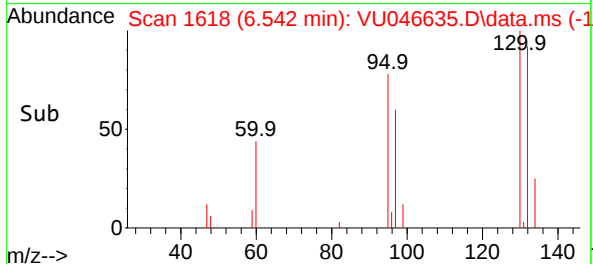
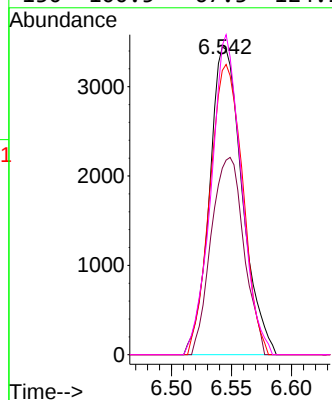
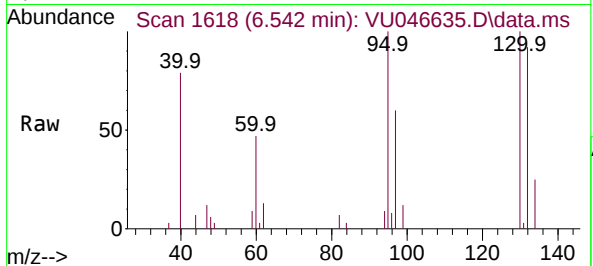


#34  
Trichloroethene  
Concen: 1.031 ug/L  
RT: 6.542 min Scan# 1618  
Delta R.T. -0.003 min  
Lab File: VU046635.D  
Acq: 29 Dec 2021 18:37

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0J04RE

Tgt Ion: 95 Resp: 6535

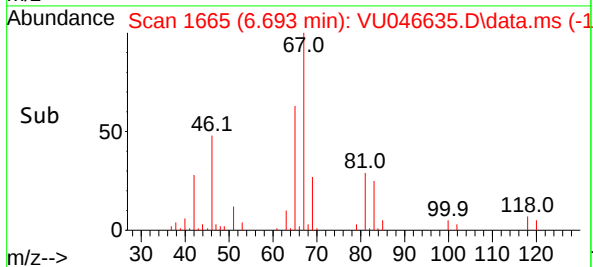
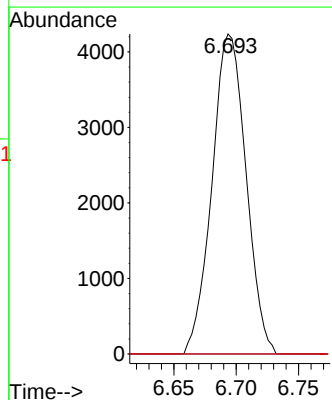
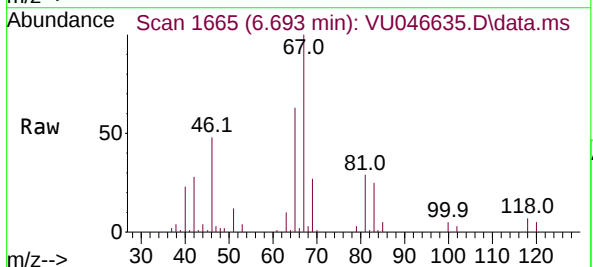
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 60.6  | 46.5  | 86.5  |
| 132 | 92.3  | 65.1  | 120.9 |
| 130 | 100.5 | 67.3  | 124.9 |

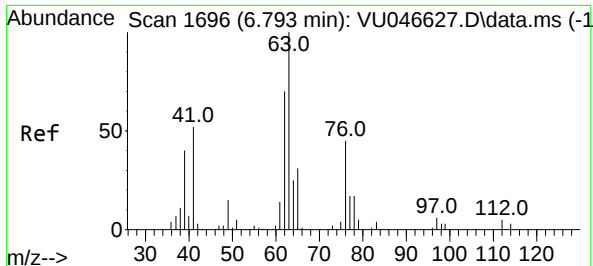


#35  
Methylcyclohexane  
Concen: 0.902 ug/L  
RT: 6.693 min Scan# 1665  
Delta R.T. -0.074 min  
Lab File: VU046635.D  
Acq: 29 Dec 2021 18:37

Tgt Ion: 83 Resp: 8060

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 0.0   | 61.9  | 92.9# |
| 98  | 0.0   | 39.0  | 58.6# |





#37

1,2-Dichloropropane

Concen: 0.581 ug/L

RT: 6.693 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU046635.D

Acq: 29 Dec 2021 18:37

Instrument :

MSVOA\_U

ClientSampleId :

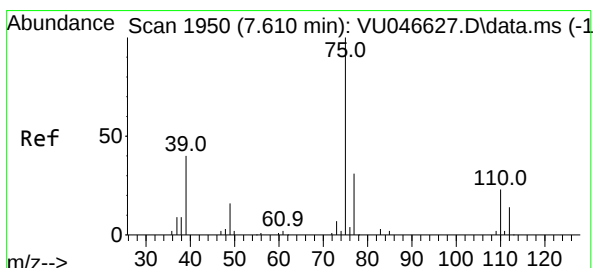
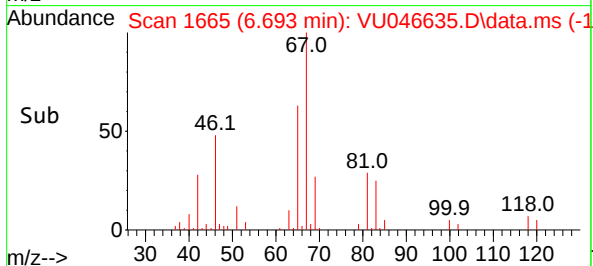
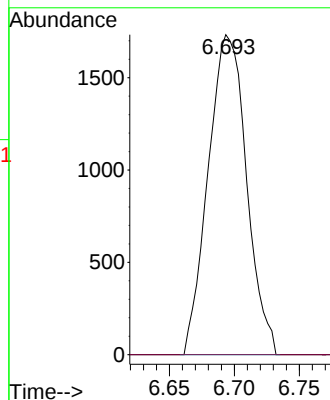
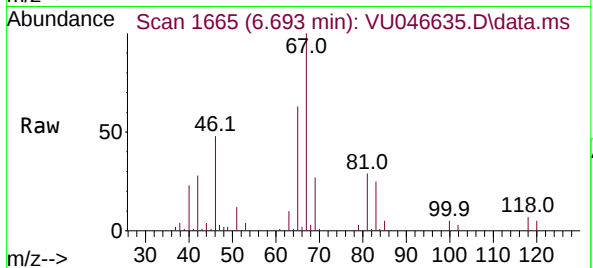
C0J04RE

Tgt Ion: 63 Resp: 3564

Ion Ratio Lower Upper

63 100

112 0.0 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.094 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU046635.D

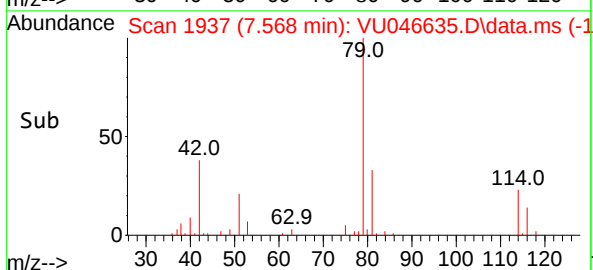
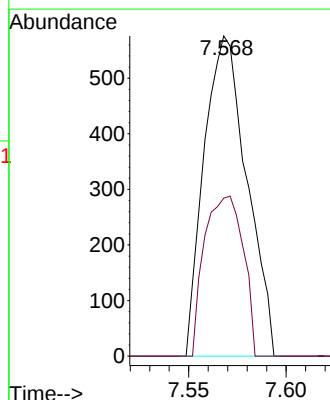
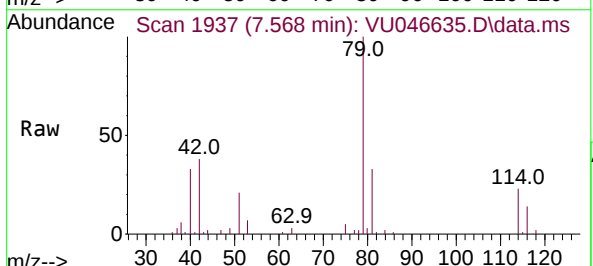
Acq: 29 Dec 2021 18:37

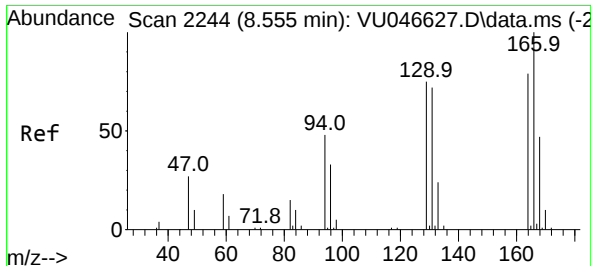
Tgt Ion: 75 Resp: 877

Ion Ratio Lower Upper

75 100

77 49.3 22.5 41.9#





#47

Tetrachloroethene

Concen: 1.218 ug/L

RT: 8.555 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU046635.D

Acq: 29 Dec 2021 18:37

Instrument :

MSVOA\_U

ClientSampleId :

C0J04RE

Tgt Ion:164 Resp: 5463

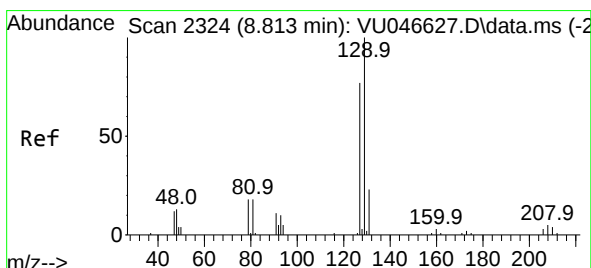
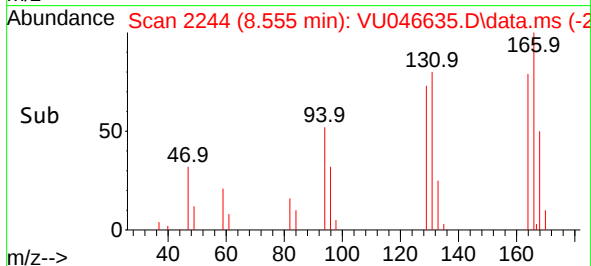
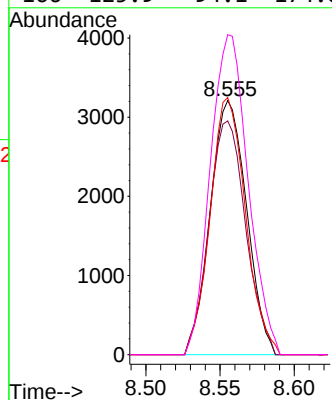
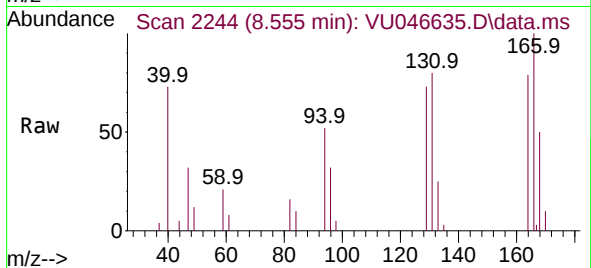
Ion Ratio Lower Upper

164 100

129 92.0 71.8 133.4

131 101.2 68.5 127.3

166 125.9 94.1 174.8



#49

Dibromochloromethane

Concen: 0.835 ug/L

RT: 8.555 min Scan# 2244

Delta R.T. -0.257 min

Lab File: VU046635.D

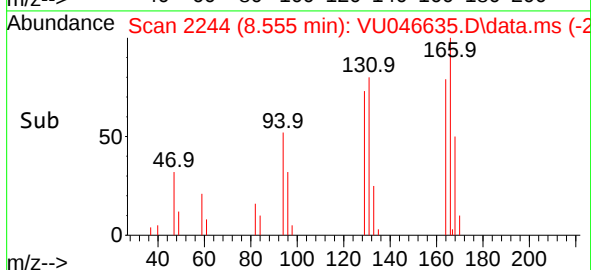
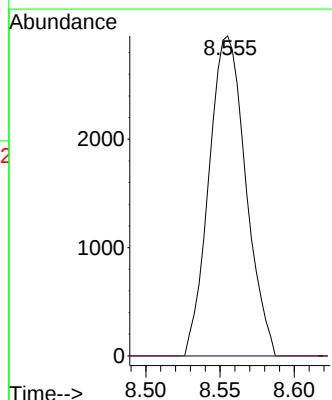
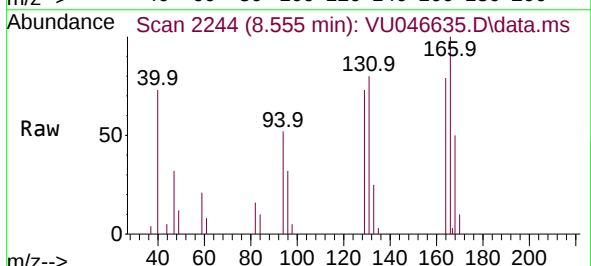
Acq: 29 Dec 2021 18:37

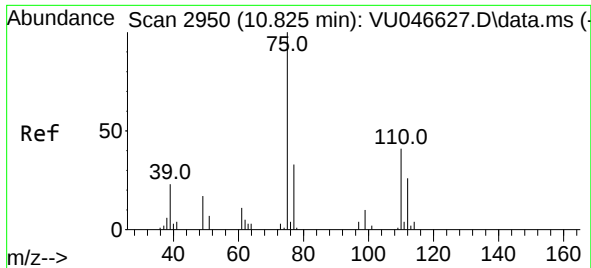
Tgt Ion:129 Resp: 5096

Ion Ratio Lower Upper

129 100

127 0.0 55.4 102.8#





#61  
 1,2,3-Trichloropropane  
 Concen: 0.785 ug/L  
 RT: 11.812 min Scan# 31  
 Delta R.T. 0.987 min  
 Lab File: VU046635.D  
 Acq: 29 Dec 2021 18:37

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0J04RE

Tgt Ion: 75 Resp: 3497  
 Ion Ratio Lower Upper  
 75 100  
 110 0.0 29.9 44.9#  
 77 31.9 25.5 38.3

