

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU040323\  
 Data File : VU053541.D  
 Acq On : 04 Apr 2023 00:21  
 Operator : JC/MD  
 Sample : 02158-13  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PMW-9D(20230330)

Quant Time: Apr 04 06:58:06 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM033123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Apr 01 04:51:17 2023  
 Response via : Initial Calibration

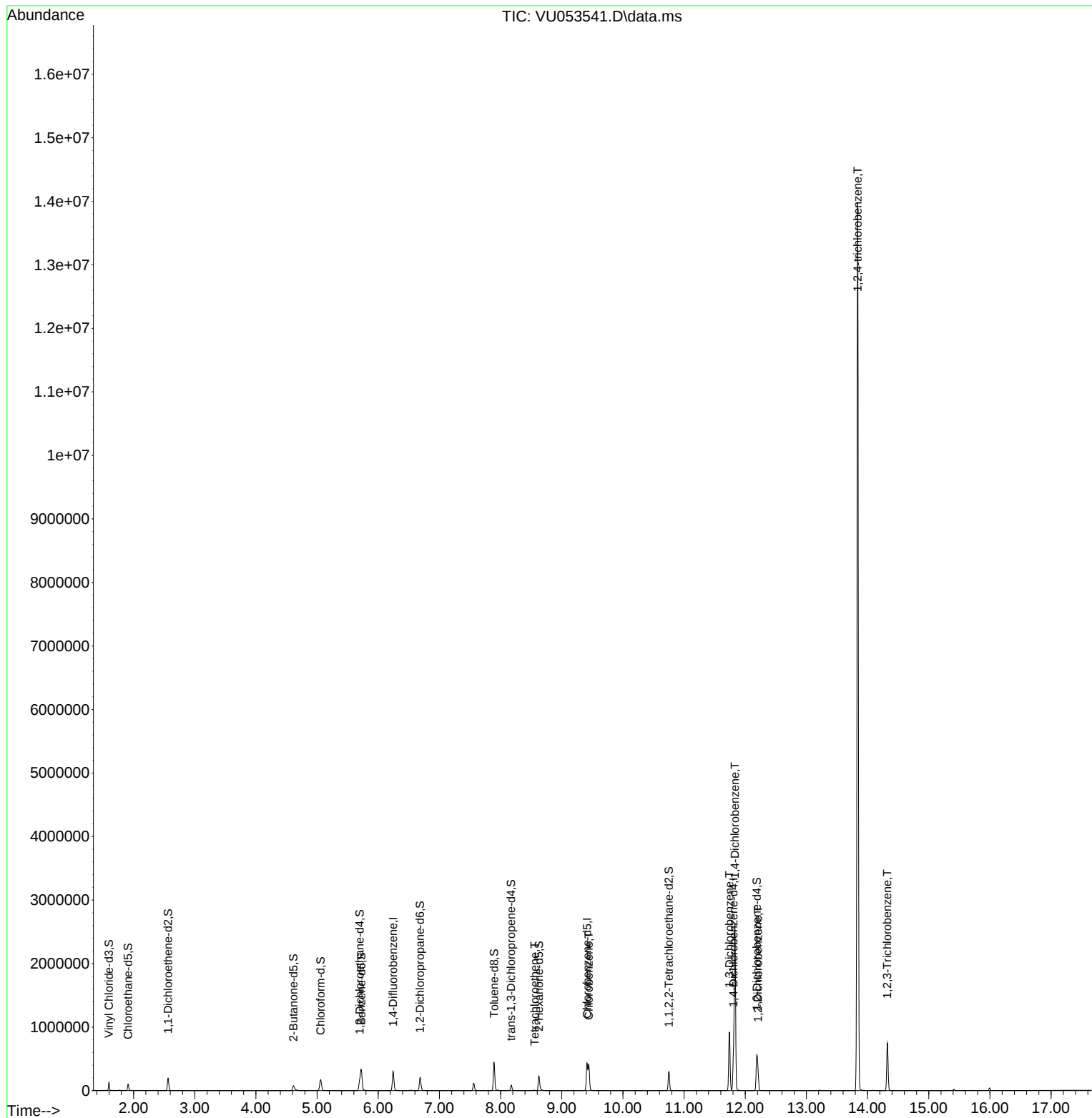
| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.243   | 114   | 262897   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414   | 117   | 242503   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.806  | 152   | 134346   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 89943    | 43.937   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 87.880%  |
| 7) Chloroethane-d5            | 1.909   | 69    | 76746    | 48.624   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 97.240%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 113120   | 35.698   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 71.400%  |
| 21) 2-Butanone-d5             | 4.613   | 46    | 107470   | 115.955  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 115.950% |
| 24) Chloroform-d              | 5.057   | 84    | 157929   | 46.649   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.300%  |
| 26) 1,2-Dichloroethane-d4     | 5.697   | 65    | 101575   | 50.775   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 101.540% |
| 32) Benzene-d6                | 5.722   | 84    | 322957   | 49.338   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 98.680%  |
| 36) 1,2-Dichloropropane-d6    | 6.684   | 67    | 102452   | 51.207   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 102.420% |
| 41) Toluene-d8                | 7.893   | 98    | 304848   | 46.857   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 93.720%  |
| 43) trans-1,3-Dichloroprop... | 8.173   | 79    | 49730    | 48.152   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 96.300%  |
| 47) 2-Hexanone-d5             | 8.626   | 63    | 83664    | 122.525  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 122.520% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751  | 84    | 146992   | 52.126   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 104.260% |
| 66) 1,2-Dichlorobenzene-d4    | 12.188  | 152   | 131006   | 46.716   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 93.440%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 46) Tetrachloroethene         | 8.555   | 164   | 1932     | 1.218    | ug/L   | 83       |
| 51) Chlorobenzene             | 9.443   | 112   | 230547   | 46.732   | ug/L   | 95       |
| 64) 1,3-Dichlorobenzene       | 11.742  | 146   | 384759   | 92.705   | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.832  | 146   | 1048664  | 247.910  | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 12.208  | 146   | 121163   | 29.291   | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.838  | 180   | 4078073  | 1431.144 | ug/L   | 98       |
| 72) 1,2,3-Trichlorobenzene    | 14.323  | 180   | 230058   | 80.832   | ug/L   | 97       |
| -----                         |         |       |          |          |        |          |

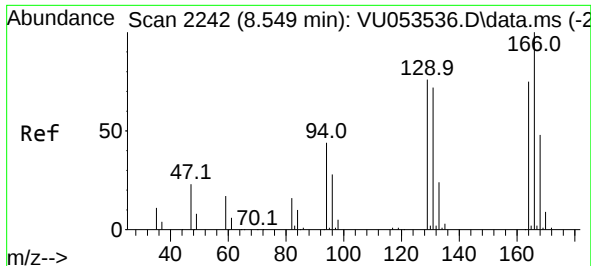
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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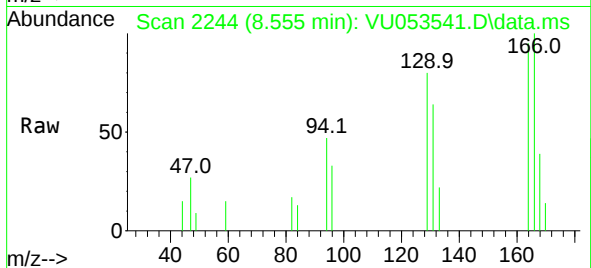
Quant Time: Apr 04 06:58:06 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM033123WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Apr 01 04:51:17 2023  
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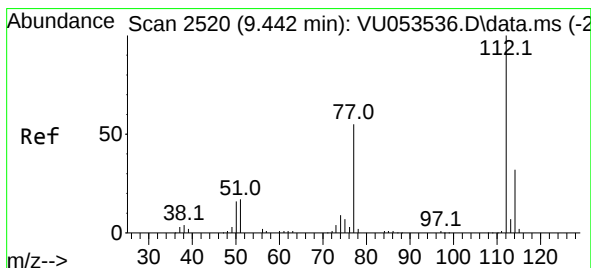
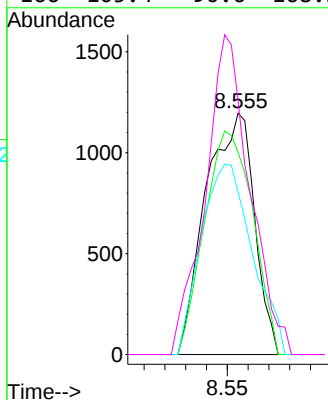


#46  
Tetrachloroethene  
Concen: 1.218 ug/L  
RT: 8.555 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VU053541.D  
Acq: 04 Apr 2023 00:21

Instrument :  
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ClientSampleId :  
PMW-9D(20230330)

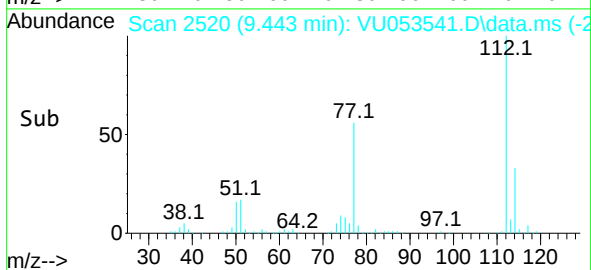
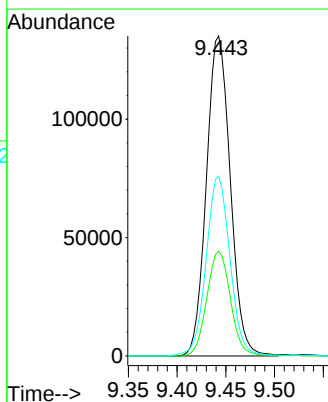
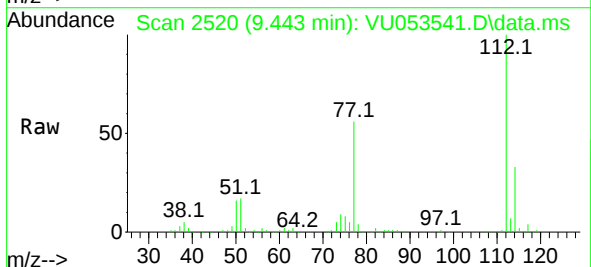


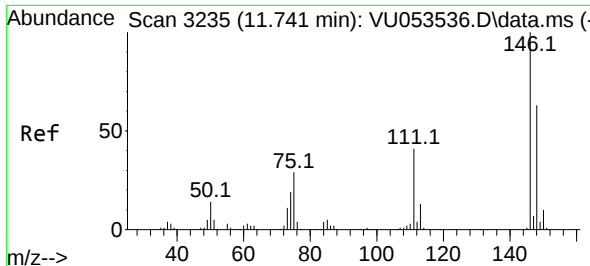
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:164 | Resp: | 1932  |       |
| Ion         | Ratio | Lower | Upper |
| 164         | 100   |       |       |
| 129         | 83.9  | 64.0  | 119.0 |
| 131         | 67.3  | 61.9  | 115.1 |
| 166         | 105.4 | 90.6  | 168.2 |



#51  
Chlorobenzene  
Concen: 46.732 ug/L  
RT: 9.443 min Scan# 2520  
Delta R.T. 0.000 min  
Lab File: VU053541.D  
Acq: 04 Apr 2023 00:21

|             |       |        |       |
|-------------|-------|--------|-------|
| Tgt Ion:112 | Resp: | 230547 |       |
| Ion         | Ratio | Lower  | Upper |
| 112         | 100   |        |       |
| 114         | 32.8  | 22.2   | 41.2  |
| 77          | 56.2  | 41.3   | 61.9  |

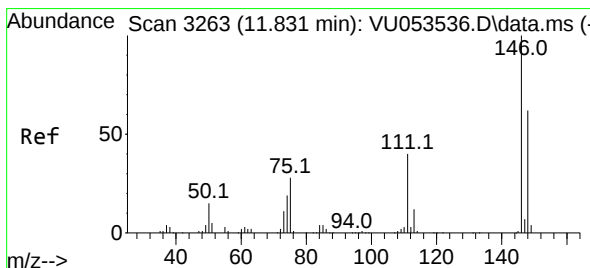
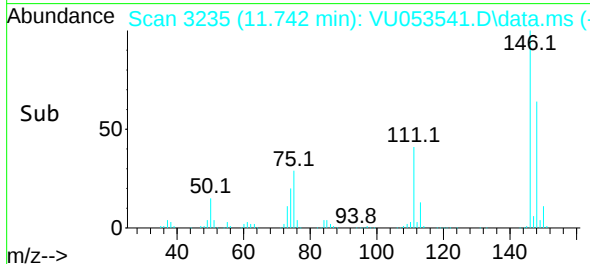
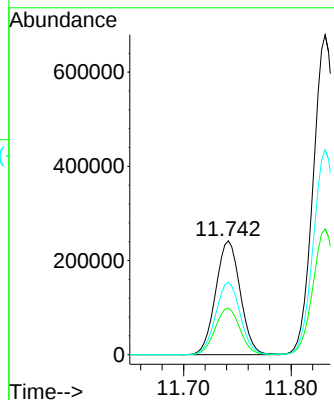
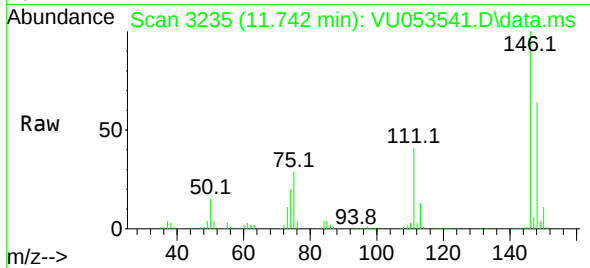




#64  
 1,3-Dichlorobenzene  
 Concen: 92.705 ug/L  
 RT: 11.742 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: VU053541.D  
 Acq: 04 Apr 2023 00:21

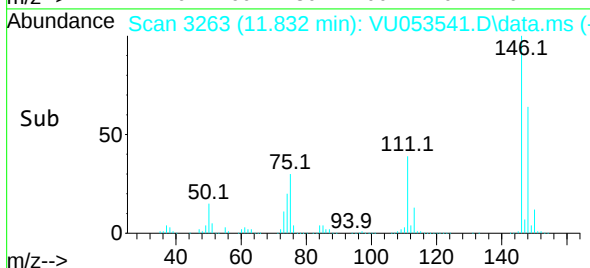
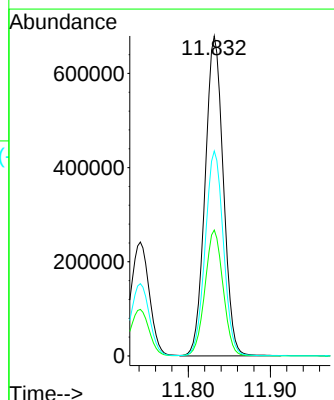
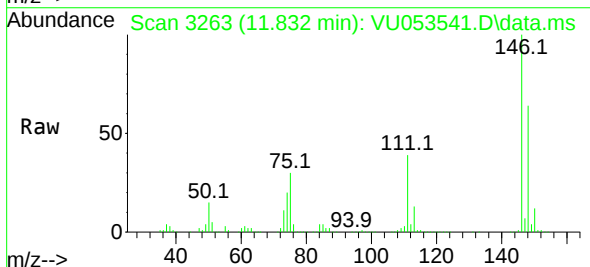
Instrument :  
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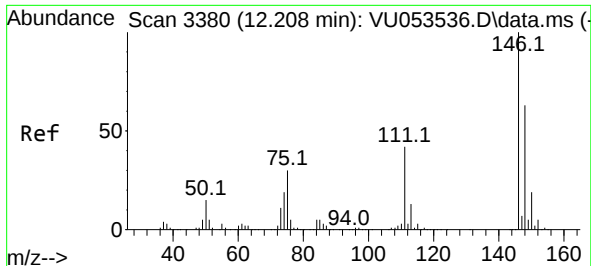
Tgt Ion:146 Resp: 384759  
 Ion Ratio Lower Upper  
 146 100  
 111 40.8 25.7 47.7  
 148 63.5 44.2 82.2



#65  
 1,4-Dichlorobenzene  
 Concen: 247.910 ug/L  
 RT: 11.832 min Scan# 3263  
 Delta R.T. 0.000 min  
 Lab File: VU053541.D  
 Acq: 04 Apr 2023 00:21

Tgt Ion:146 Resp: 1048664  
 Ion Ratio Lower Upper  
 146 100  
 111 39.4 25.1 46.5  
 148 64.0 44.3 82.3





#67

1,2-Dichlorobenzene

Concen: 29.291 ug/L

RT: 12.208 min Scan# 311

Delta R.T. 0.000 min

Lab File: VU053541.D

Acq: 04 Apr 2023 00:21

Instrument :

MSVOA\_U

ClientSampleId :

PMW-9D(20230330)

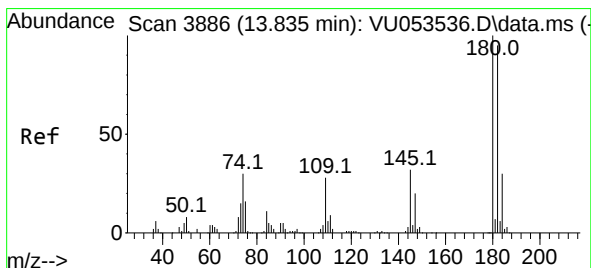
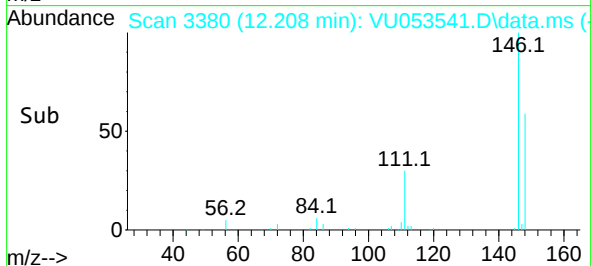
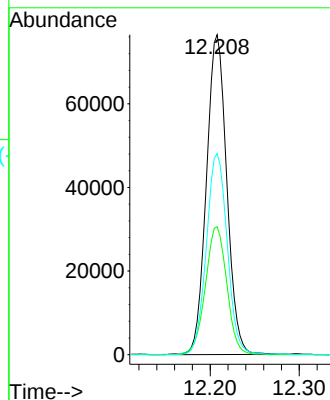
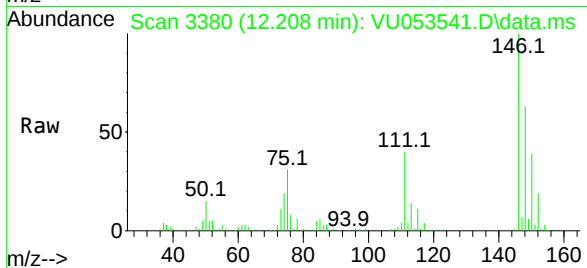
Tgt Ion:146 Resp: 121163

Ion Ratio Lower Upper

146 100

111 40.0 31.5 47.3

148 62.9 51.6 77.4



#70

1,2,4-trichlorobenzene

Concen: 1431.144 ug/L

RT: 13.838 min Scan# 3887

Delta R.T. 0.003 min

Lab File: VU053541.D

Acq: 04 Apr 2023 00:21

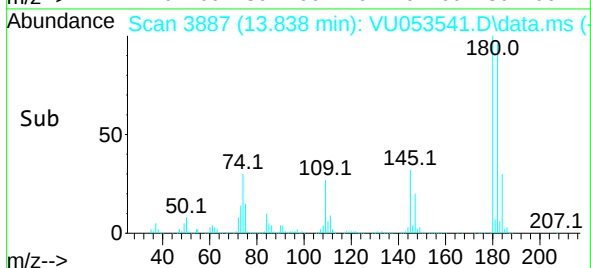
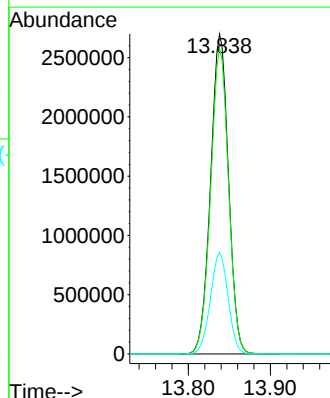
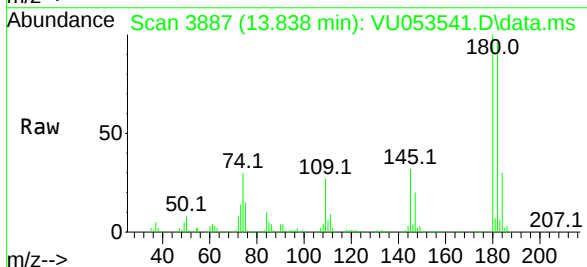
Tgt Ion:180 Resp: 4078073

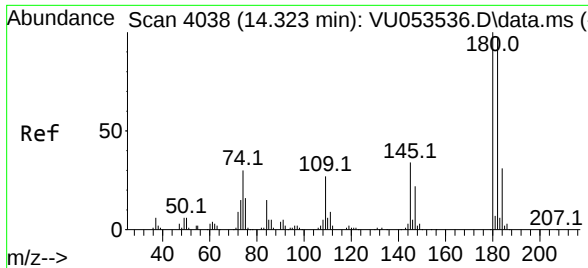
Ion Ratio Lower Upper

180 100

182 95.5 75.8 113.8

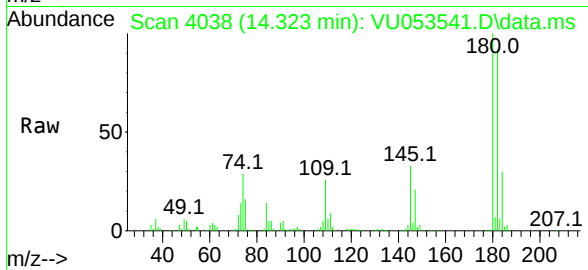
145 31.5 23.4 35.2





#72  
 1,2,3-Trichlorobenzene  
 Concen: 80.832 ug/L  
 RT: 14.323 min Scan# 4038  
 Delta R.T. 0.000 min  
 Lab File: VU053541.D  
 Acq: 04 Apr 2023 00:21

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PMW-9D(20230330)



Tgt Ion:180 Resp: 230058  
 Ion Ratio Lower Upper  
 180 100  
 182 93.9 77.0 115.6  
 145 33.3 25.4 38.0

