

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU021022\  
 Data File : VU047088.D  
 Acq On : 10 Feb 2022 20:59  
 Operator : SY/MD  
 Sample : N1462-04  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Feb 11 01:16:39 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM021022WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Feb 11 01:13:45 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|----------|--------|----------|
| -----                         |                |      |                     |          |        |          |
| Internal Standards            |                |      |                     |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253          | 114  | 471409              | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417          | 117  | 446868              | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812         | 152  | 226657              | 50.000   | ug/L   | 0.00     |
|                               |                |      |                     |          |        |          |
| System Monitoring Compounds   |                |      |                     |          |        |          |
| 4) Vinyl Chloride-d3          | 1.604          | 65   | 219548              | 51.280   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = 102.560% |          |        |          |
| 7) Chloroethane-d5            | 1.922          | 69   | 147985              | 46.628   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = 93.260%  |          |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.575          | 63   | 276836              | 39.019   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = 78.040%  |          |        |          |
| 21) 2-Butanone-d5             | 4.649          | 46   | 403905              | 121.642  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = 121.640% |          |        |          |
| 24) Chloroform-d              | 5.070          | 84   | 312085              | 44.901   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 89.800%  |          |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.703          | 65   | 212070              | 47.537   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 95.080%  |          |        |          |
| 32) Benzene-d6                | 5.732          | 84   | 687271              | 46.261   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = 92.520%  |          |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.694          | 67   | 226506              | 47.014   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = 94.020%  |          |        |          |
| 41) Toluene-d8                | 7.899          | 98   | 655879              | 46.368   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = 92.740%  |          |        |          |
| 43) trans-1,3-Dichloroprop... | 8.179          | 79   | 118038              | 46.751   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = 93.500%  |          |        |          |
| 47) 2-Hexanone-d5             | 8.636          | 63   | 294197              | 106.588  | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = 106.590% |          |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758         | 84   | 332515              | 47.333   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = 94.660%  |          |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.192         | 152  | 254627              | 47.368   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = 94.740%  |          |        |          |
|                               |                |      |                     |          |        |          |
| Target Compounds              |                |      |                     |          |        | Qvalue   |
| 5) Vinyl chloride             | 1.610          | 62   | 3519556             | 803.525  | ug/L   | 99       |
| 8) Chloroethane               | 1.941          | 64   | 9354                | 3.704    | ug/L   | 94       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578          | 101  | 2585                | 0.827    | ug/L # | 21       |
| 12) 1,1-Dichloroethene        | 2.588          | 96   | 44368               | 14.473   | ug/L # | 5        |
| 13) Acetone                   | 2.674          | 43   | 6196                | 2.562    | ug/L   | 91       |
| 17) trans-1,2-Dichloroethene  | 3.362          | 96   | 61667               | 19.147   | ug/L   | 94       |
| 18) Methyl tert-butyl Ether   | 3.366          | 73   | 16039               | 1.473    | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.674          | 96   | 12725145            | 3572.039 | ug/L # | 93       |
| 27) 1,2-Dichloroethane        | 5.732          | 62   | 3923                | 0.833    | ug/L   | 98       |
| 33) Benzene                   | 5.777          | 78   | 19228               | 1.380    | ug/L   | 100      |
| 34) Trichloroethene           | 6.546          | 95   | 802421              | 221.633  | ug/L   | 99       |
| 42) Toluene                   | 7.970          | 91   | 44244               | 2.890    | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene | 8.179          | 75   | 4872                | 0.836    | ug/L # | 81       |
| 46) Tetrachloroethene         | 8.555          | 164  | 338571              | 116.249  | ug/L   | 96       |
| 51) Chlorobenzene             | 9.446          | 112  | 5663                | 0.577    | ug/L # | 86       |
| 53) m,p-Xylene                | 9.697          | 106  | 5495                | 0.827    | ug/L   | 93       |
| -----                         |                |      |                     |          |        |          |

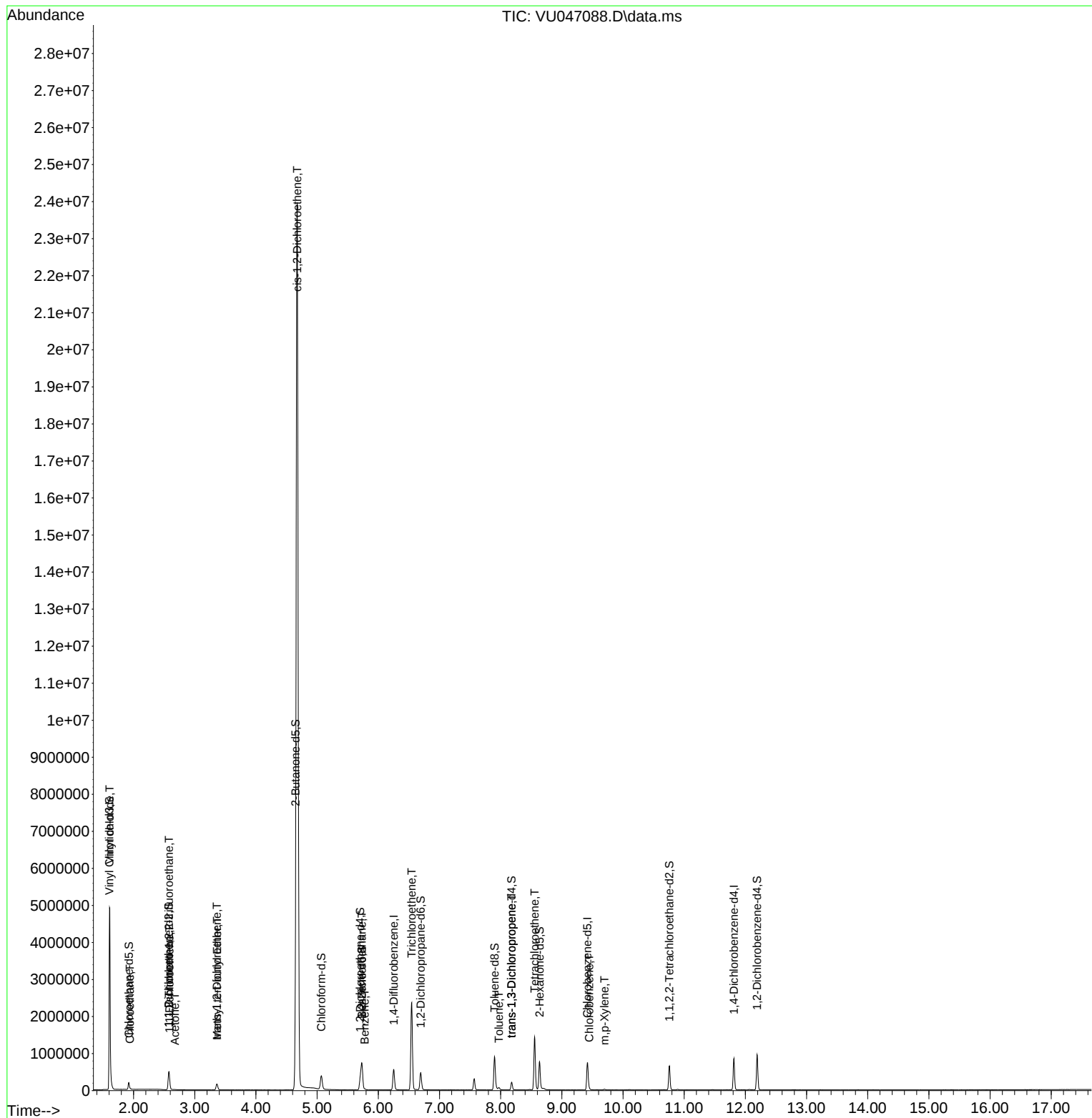
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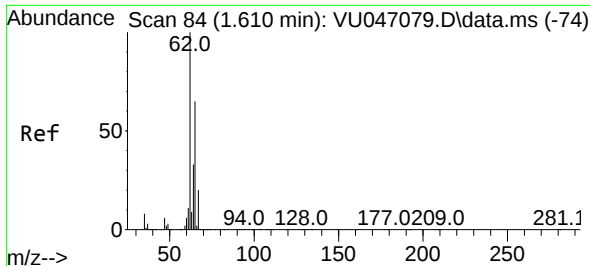
Instrument :  
MSVOA\_U  
ClientSampleId :

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU021022\  
Data File : VU047088.D  
Acq On : 10 Feb 2022 20:59  
Operator : SY/MD  
Sample : N1462-04  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 19 Sample Multiplier: 1

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MSVOA\_U  
ClientSampleId :

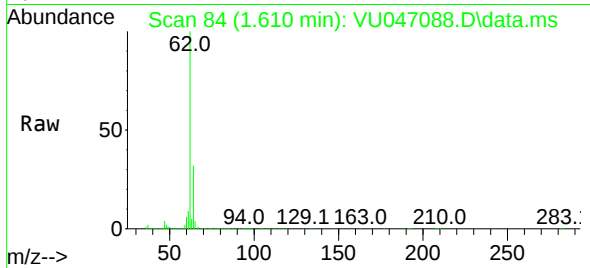
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM021022WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Feb 11 01:13:45 2022  
Response via : Initial Calibration



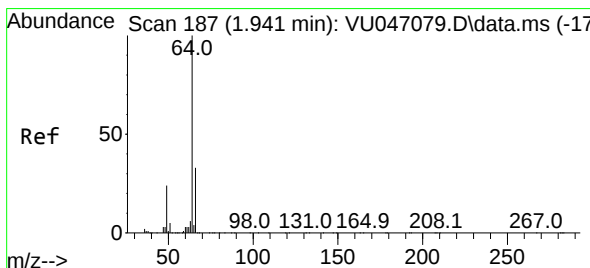
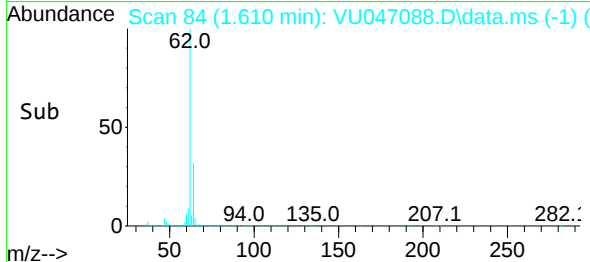
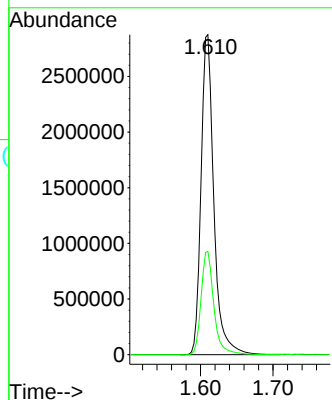


#5  
 Vinyl chloride  
 Concen: 803.525 ug/L  
 RT: 1.610 min Scan# 84  
 Delta R.T. 0.000 min  
 Lab File: VU047088.D  
 Acq: 10 Feb 2022 20:59

Instrument :  
 MSVOA\_U  
 ClientSampleId :

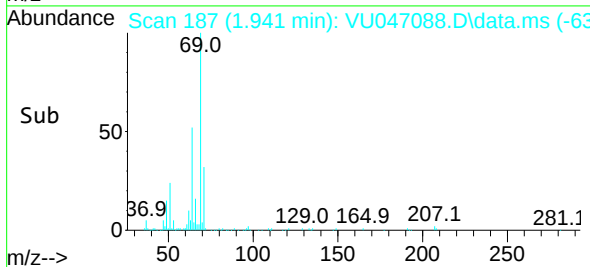
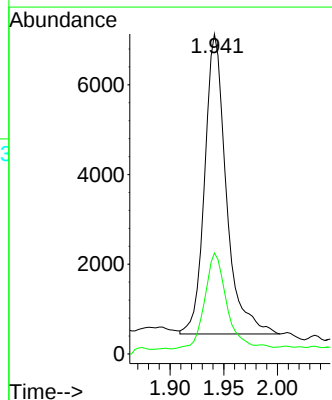
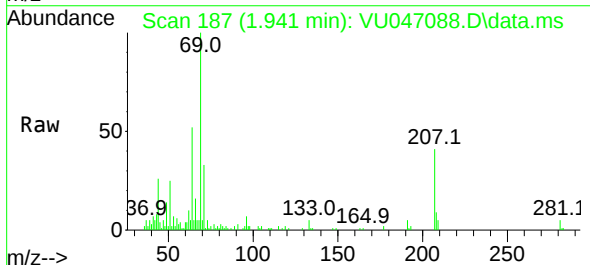


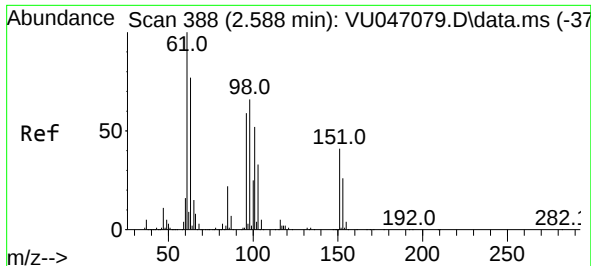
Tgt Ion: 62 Resp: 3519556  
 Ion Ratio Lower Upper  
 62 100  
 64 32.3 23.1 42.9



#8  
 Chloroethane  
 Concen: 3.704 ug/L  
 RT: 1.941 min Scan# 187  
 Delta R.T. 0.000 min  
 Lab File: VU047088.D  
 Acq: 10 Feb 2022 20:59

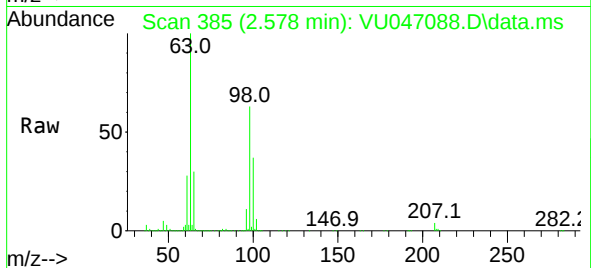
Tgt Ion: 64 Resp: 9354  
 Ion Ratio Lower Upper  
 64 100  
 66 31.5 24.4 45.2



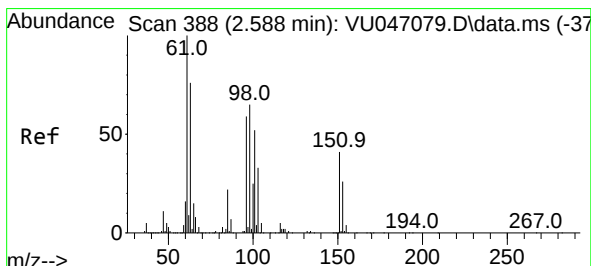
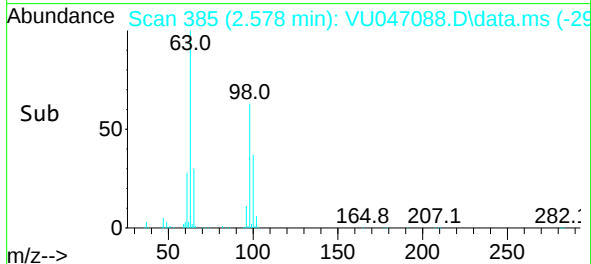
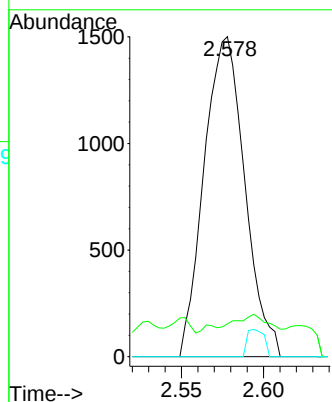


#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.827 ug/L  
 RT: 2.578 min Scan# 385  
 Delta R.T. -0.010 min  
 Lab File: VU047088.D  
 Acq: 10 Feb 2022 20:59

Instrument :  
 MSVOA\_U  
 ClientSampleId :

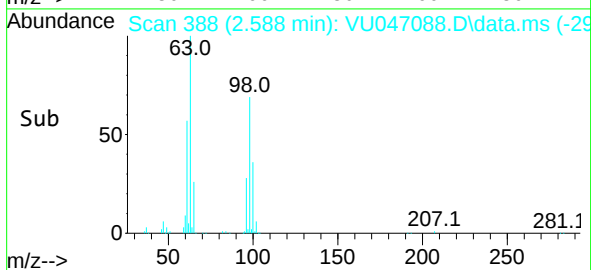
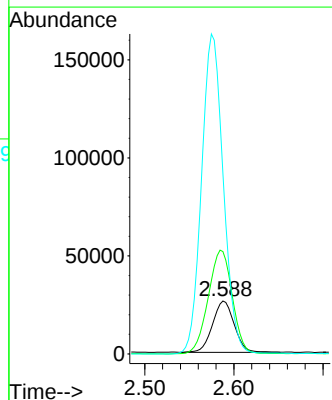
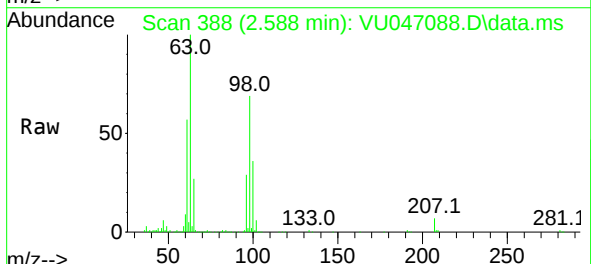


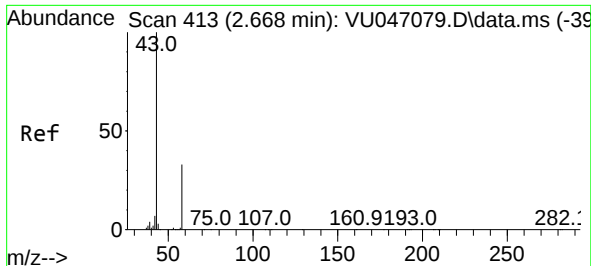
Tgt Ion: 101 Resp: 2585  
 Ion Ratio Lower Upper  
 101 100  
 85 2.0 34.9 52.3#  
 151 0.0 58.3 87.5#



#12  
 1,1-Dichloroethene  
 Concen: 14.473 ug/L  
 RT: 2.588 min Scan# 388  
 Delta R.T. 0.000 min  
 Lab File: VU047088.D  
 Acq: 10 Feb 2022 20:59

Tgt Ion: 96 Resp: 44368  
 Ion Ratio Lower Upper  
 96 100  
 61 193.6 114.9 213.3  
 63 340.8 86.0 159.8#

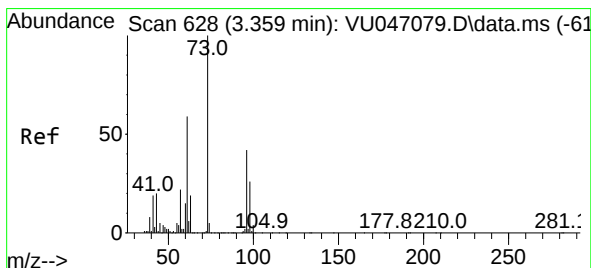
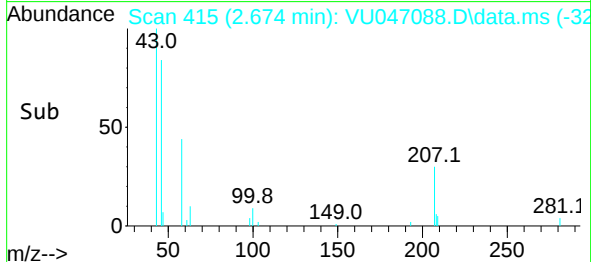
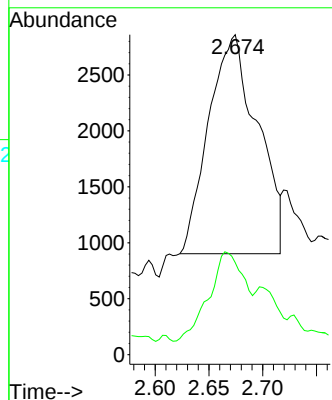
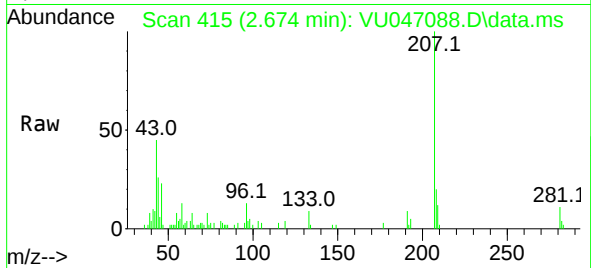




#13  
Acetone  
Concen: 2.562 ug/L  
RT: 2.674 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VU047088.D  
Acq: 10 Feb 2022 20:59

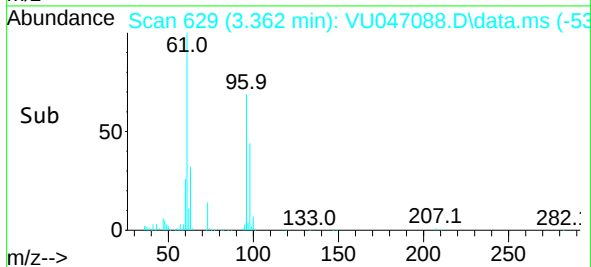
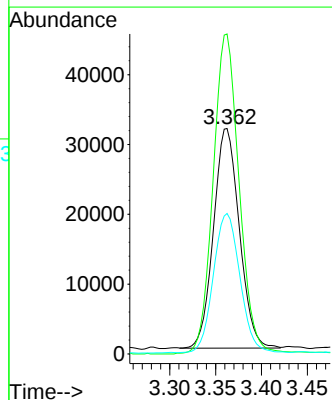
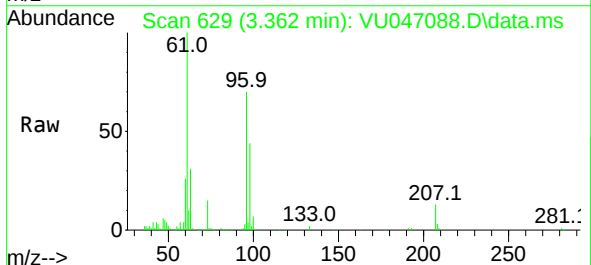
Instrument :  
MSVOA\_U  
ClientSampleId :

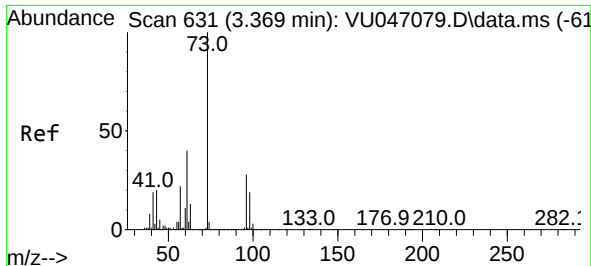
Tgt Ion: 43 Resp: 6196  
Ion Ratio Lower Upper  
43 100  
58 30.0 0.0 71.0



#17  
trans-1,2-Dichloroethene  
Concen: 19.147 ug/L  
RT: 3.362 min Scan# 629  
Delta R.T. 0.003 min  
Lab File: VU047088.D  
Acq: 10 Feb 2022 20:59

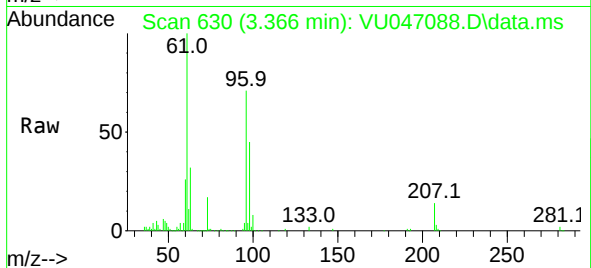
Tgt Ion: 96 Resp: 61667  
Ion Ratio Lower Upper  
96 100  
61 142.0 92.5 171.9  
98 62.4 42.4 78.6



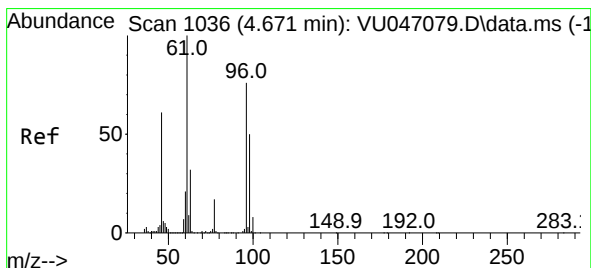
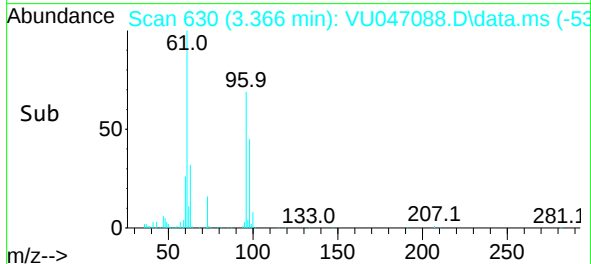
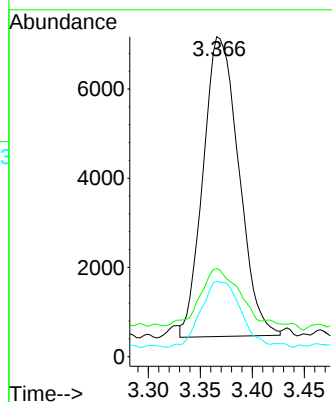


#18  
Methyl tert-butyl Ether  
Concen: 1.473 ug/L  
RT: 3.366 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: VU047088.D  
Acq: 10 Feb 2022 20:59

Instrument :  
MSVOA\_U  
ClientSampleId :

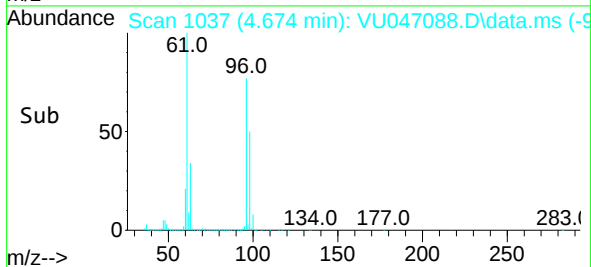
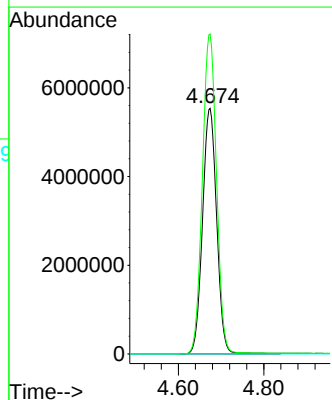
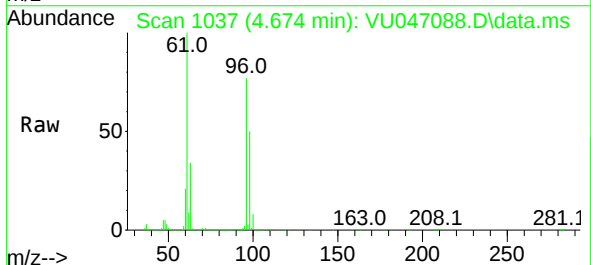


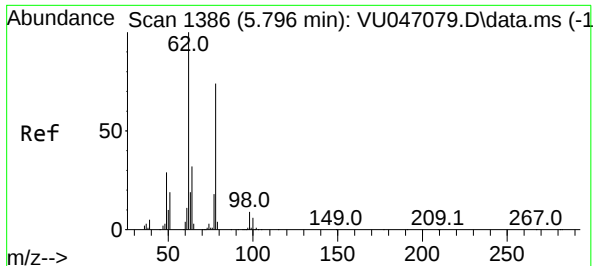
Tgt Ion: 73 Resp: 16039  
Ion Ratio Lower Upper  
73 100  
43 17.5 14.1 21.1  
57 22.3 16.4 24.6



#20  
cis-1,2-Dichloroethene  
Concen: 3572.039 ug/L  
RT: 4.674 min Scan# 1037  
Delta R.T. 0.003 min  
Lab File: VU047088.D  
Acq: 10 Feb 2022 20:59

Tgt Ion: 96 Resp:12725145  
Ion Ratio Lower Upper  
96 100  
61 130.3 86.0 159.6  
68 0.0 0.0 0.0#

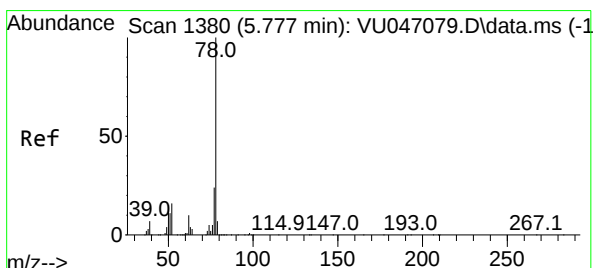
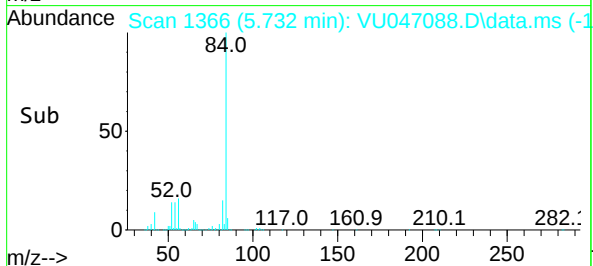
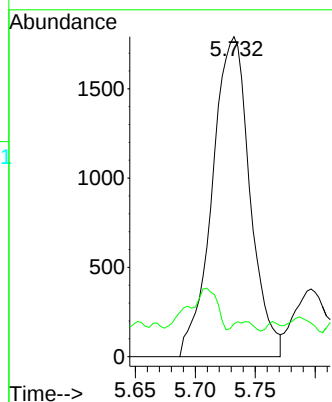
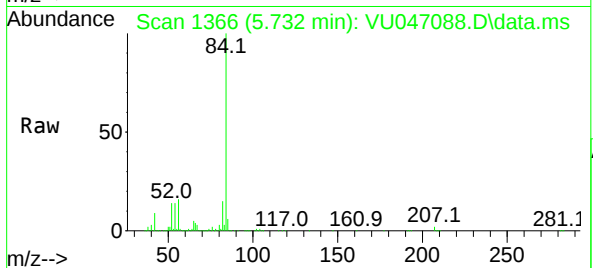




#27  
1,2-Dichloroethane  
Concen: 0.833 ug/L  
RT: 5.732 min Scan# 1366  
Delta R.T. -0.064 min  
Lab File: VU047088.D  
Acq: 10 Feb 2022 20:59

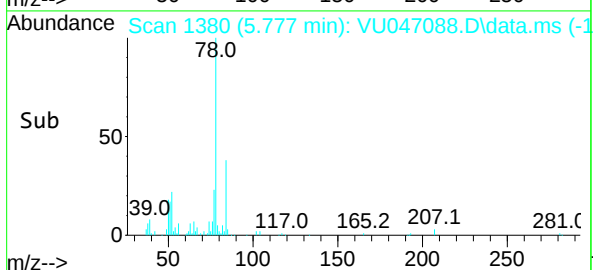
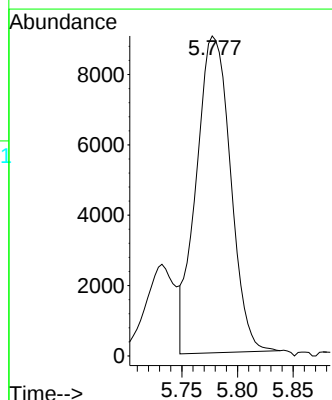
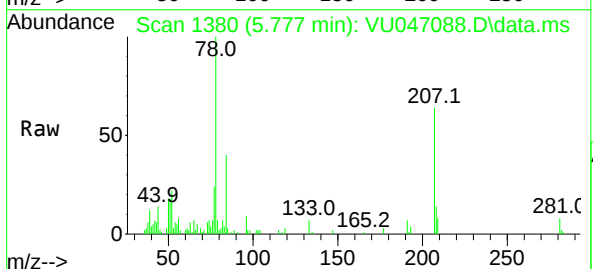
Instrument :  
MSVOA\_U  
ClientSampleId :

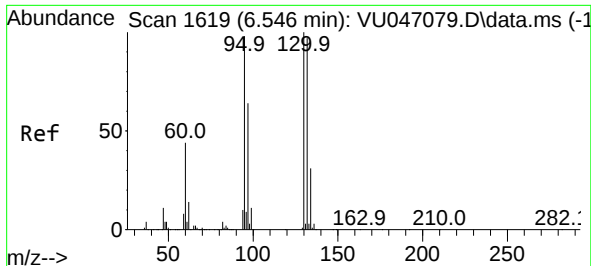
Tgt Ion: 62 Resp: 3923  
Ion Ratio Lower Upper  
62 100  
98 10.3 7.7 11.5



#33  
Benzene  
Concen: 1.380 ug/L  
RT: 5.777 min Scan# 1380  
Delta R.T. 0.000 min  
Lab File: VU047088.D  
Acq: 10 Feb 2022 20:59

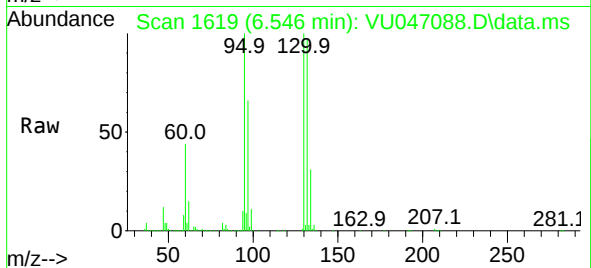
Tgt Ion: 78 Resp: 19228



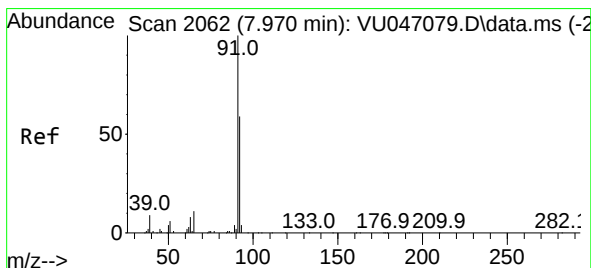
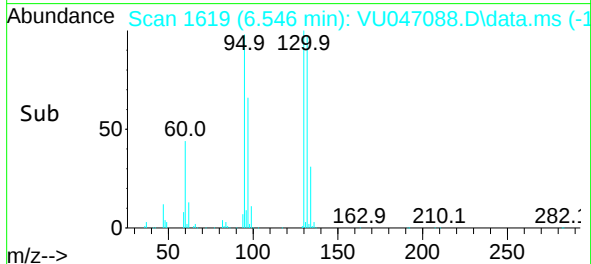
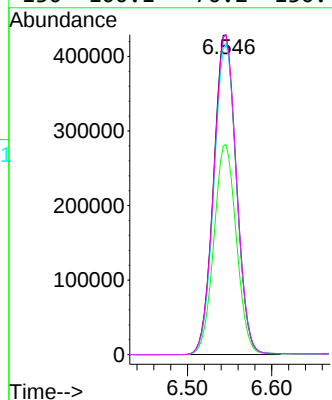


#34  
Trichloroethene  
Concen: 221.633 ug/L  
RT: 6.546 min Scan# 1619  
Delta R.T. 0.000 min  
Lab File: VU047088.D  
Acq: 10 Feb 2022 20:59

Instrument :  
MSVOA\_U  
ClientSampleId :

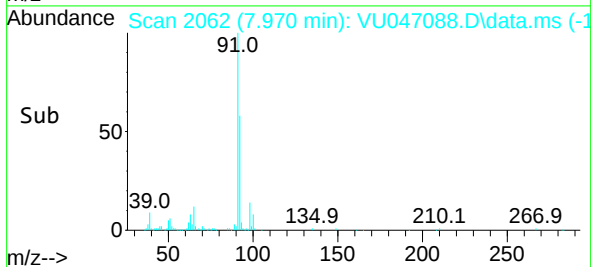
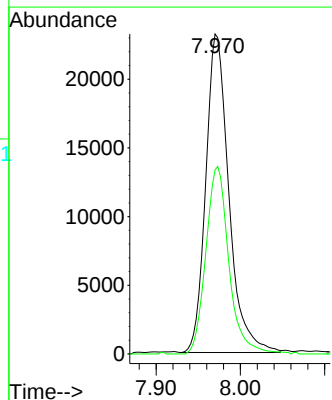
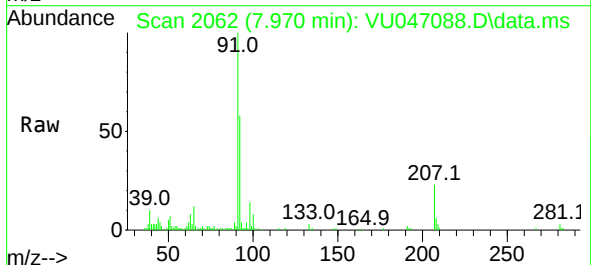


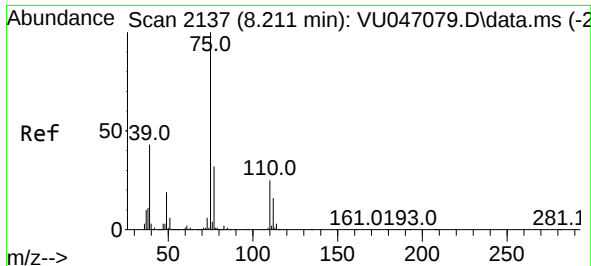
Tgt Ion: 95 Resp: 802421  
Ion Ratio Lower Upper  
95 100  
97 65.7 45.1 83.7  
132 97.3 66.7 123.9  
130 100.1 70.2 130.4



#42  
Toluene  
Concen: 2.890 ug/L  
RT: 7.970 min Scan# 2062  
Delta R.T. 0.000 min  
Lab File: VU047088.D  
Acq: 10 Feb 2022 20:59

Tgt Ion: 91 Resp: 44244  
Ion Ratio Lower Upper  
91 100  
92 57.5 40.4 75.0

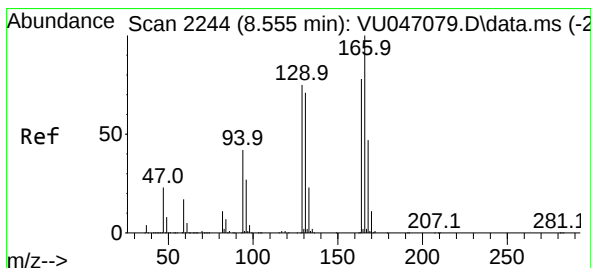
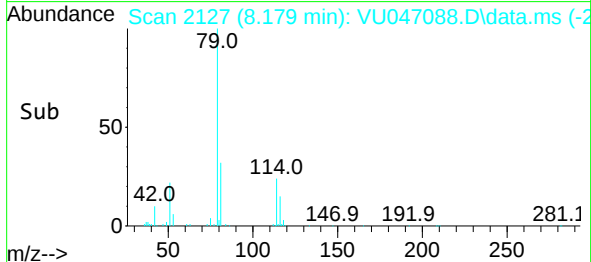
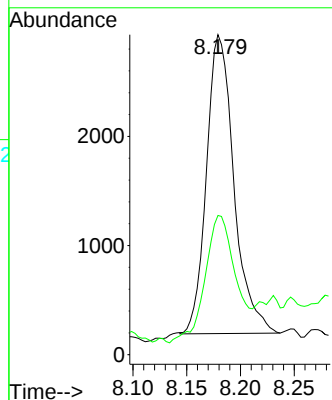
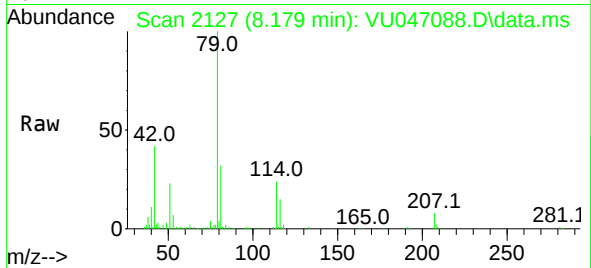




#44  
trans-1,3-Dichloropropene  
Concen: 0.836 ug/L  
RT: 8.179 min Scan# 2137  
Delta R.T. -0.032 min  
Lab File: VU047088.D  
Acq: 10 Feb 2022 20:59

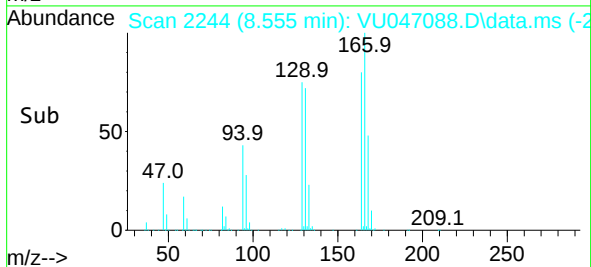
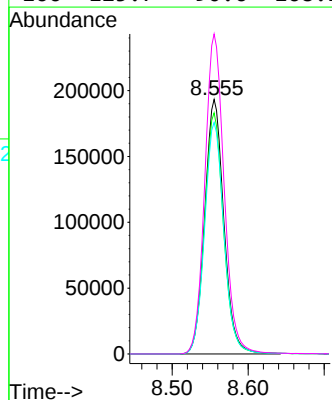
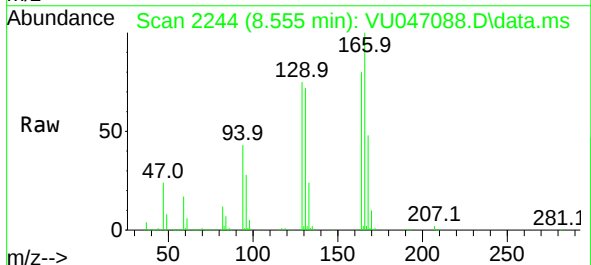
Instrument :  
MSVOA\_U  
ClientSampleId :

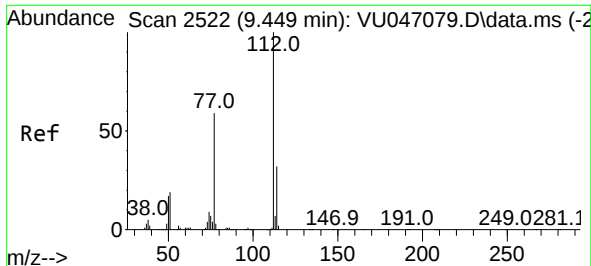
Tgt Ion: 75 Resp: 4872  
Ion Ratio Lower Upper  
75 100  
77 43.5 23.0 42.8#



#46  
Tetrachloroethene  
Concen: 116.249 ug/L  
RT: 8.555 min Scan# 2244  
Delta R.T. 0.000 min  
Lab File: VU047088.D  
Acq: 10 Feb 2022 20:59

Tgt Ion: 164 Resp: 338571  
Ion Ratio Lower Upper  
164 100  
129 94.7 69.5 129.1  
131 91.0 67.0 124.4  
166 125.7 90.6 168.2

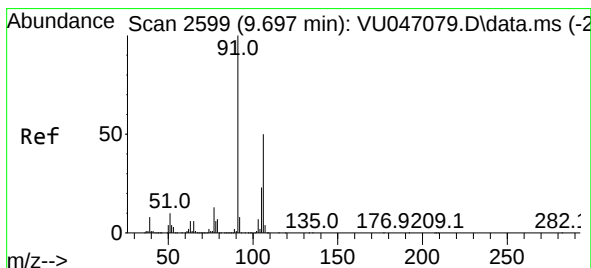
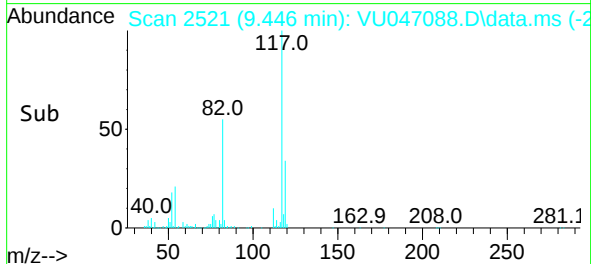
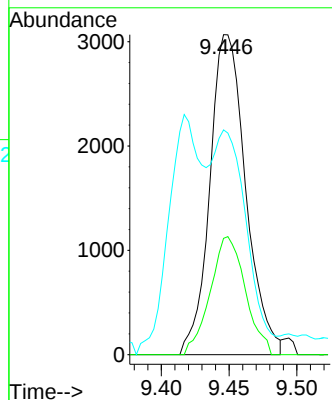
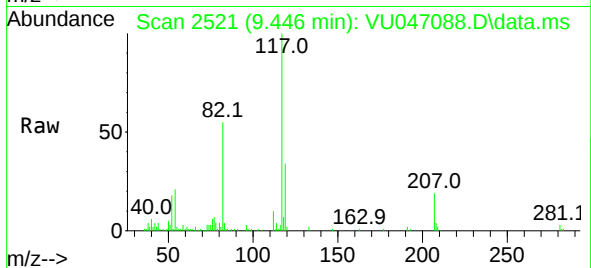




#51  
Chlorobenzene  
Concen: 0.577 ug/L  
RT: 9.446 min Scan# 2522  
Delta R.T. -0.003 min  
Lab File: VU047088.D  
Acq: 10 Feb 2022 20:59

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion:112 Resp: 5663  
Ion Ratio Lower Upper  
112 100  
114 36.4 22.1 41.1  
77 70.3 46.5 69.7#



#53  
m,p-Xylene  
Concen: 0.827 ug/L  
RT: 9.697 min Scan# 2599  
Delta R.T. 0.000 min  
Lab File: VU047088.D  
Acq: 10 Feb 2022 20:59

Tgt Ion:106 Resp: 5495  
Ion Ratio Lower Upper  
106 100  
91 196.6 145.5 270.1

