

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\U032622\  
 Data File : U047710.D  
 Acq On : 26 Mar 2022 15:42  
 Operator : SY/MD  
 Sample : N2081-06  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW5X5

Quant Time: Mar 28 05:09:13 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM032422WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 28 05:05:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 319902   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 326673   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 198671   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 69653    | 30.025   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 60.060%  |
| 7) Chloroethane-d5            | 1.919   | 69    | 59884    | 32.738   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 65.480%# |
| 11) 1,1-Dichloroethene-d2     | 2.572   | 63    | 108614   | 25.591   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 51.180%# |
| 21) 2-Butanone-d5             | 4.639   | 46    | 175025   | 87.902   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 87.900%  |
| 24) Chloroform-d              | 5.067   | 84    | 157667   | 37.145   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 74.280%  |
| 26) 1,2-Dichloroethane-d4     | 5.703   | 65    | 102436   | 39.348   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 78.700%  |
| 32) Benzene-d6                | 5.729   | 84    | 307101   | 37.360   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 74.720%  |
| 36) 1,2-Dichloropropane-d6    | 6.694   | 67    | 100862   | 39.954   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 79.900%  |
| 41) Toluene-d8                | 7.899   | 98    | 277866   | 34.695   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 69.400%# |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 48432    | 37.869   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 75.740%  |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 126666   | 85.712   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 85.710%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 174964   | 40.385   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 80.780%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 144291   | 40.823   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 81.640%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 5) Vinyl chloride             | 1.607   | 62    | 199065   | 68.816   | ug/L   | 98       |
| 8) Chloroethane               | 1.938   | 64    | 55965    | 30.819   | ug/L   | 98       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575   | 101   | 1179     | 0.500    | ug/L # | 18       |
| 12) 1,1-Dichloroethene        | 2.584   | 96    | 13742    | 6.262    | ug/L # | 1        |
| 17) trans-1,2-Dichloroethene  | 3.359   | 96    | 7718     | 3.261    | ug/L   | 93       |
| 19) 1,1-Dichloroethane        | 3.874   | 63    | 829286   | 203.156  | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 864899   | 333.318  | ug/L   | 95       |
| 27) 1,2-Dichloroethane        | 5.793   | 62    | 6089     | 1.793    | ug/L # | 90       |
| 30) 1,1,1-Trichloroethane     | 5.321   | 97    | 424574   | 114.622  | ug/L   | 99       |
| 31) Carbon tetrachloride      | 5.321   | 117   | 57196    | 17.100   | ug/L   | 99       |
| 34) Trichloroethene           | 6.543   | 95    | 32603    | 13.152   | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.764   | 83    | 13201    | 3.500    | ug/L   | 97       |
| 42) Toluene                   | 7.970   | 91    | 96824    | 9.332    | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene | 8.179   | 75    | 2408     | 0.647    | ug/L   | 97       |
| 46) Tetrachloroethene         | 8.552   | 164   | 68975    | 30.962   | ug/L   | 100      |
| 49) Dibromochloromethane      | 8.552   | 129   | 61061    | 20.679   | ug/L # | 11       |
| 52) Ethylbenzene              | 9.571   | 91    | 151506   | 13.888   | ug/L   | 98       |
| 53) m,p-Xylene                | 9.694   | 106   | 63437    | 14.820   | ug/L   | 94       |
| 54) o-Xylene                  | 10.102  | 106   | 69452    | 16.532   | ug/L   | 95       |

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 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW5X5

Quant Time: Mar 28 05:09:13 2022  
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 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 28 05:05:44 2022  
 Response via : Initial Calibration

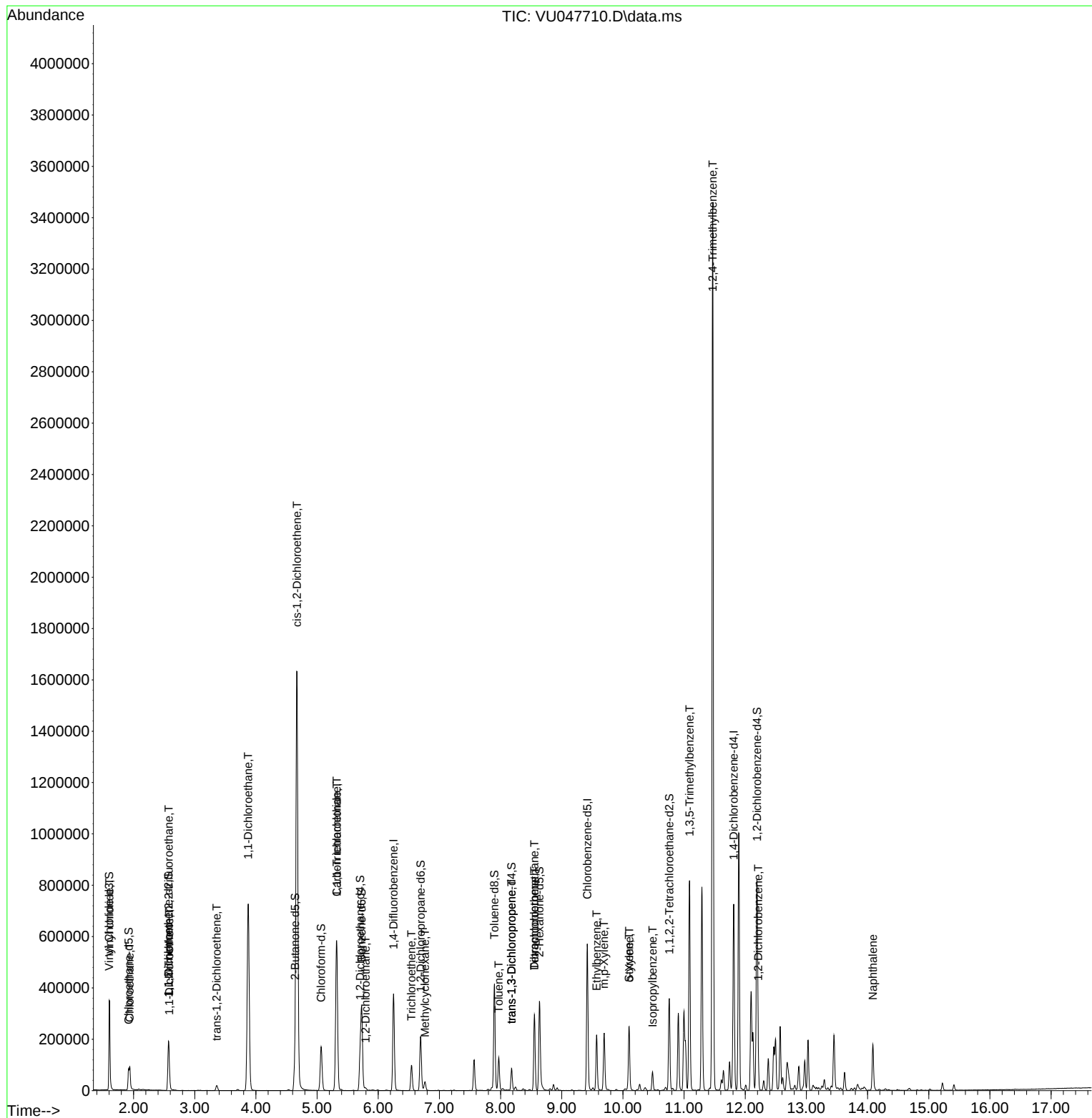
| Compound                   | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|----------------------------|--------|------|----------|---------|--------|----------|
| 55) Styrene                | 10.099 | 104  | 4264     | 0.594   | ug/L # | 1        |
| 61) Isopropylbenzene       | 10.484 | 105  | 47197    | 4.396   | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene | 11.089 | 105  | 444040   | 76.221  | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene | 11.468 | 105  | 1886843  | 213.224 | ug/L   | 99       |
| 67) 1,2-Dichlorobenzene    | 12.211 | 146  | 7716     | 1.292   | ug/L # | 85       |
| 71) Naphthalene            | 14.086 | 128  | 147667   | 11.667  | ug/L   | 99       |

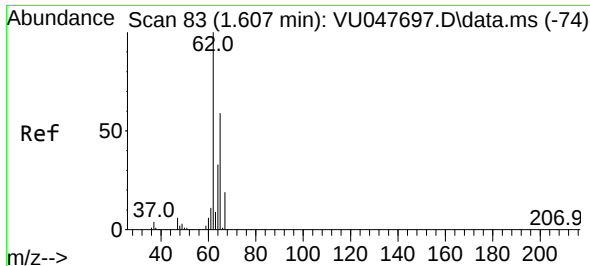
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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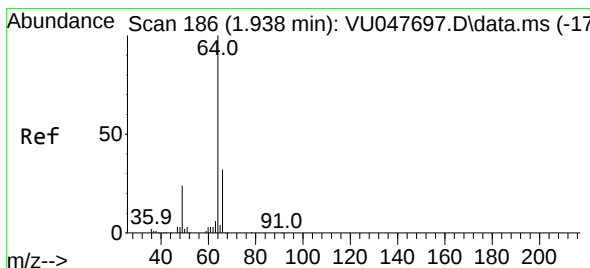
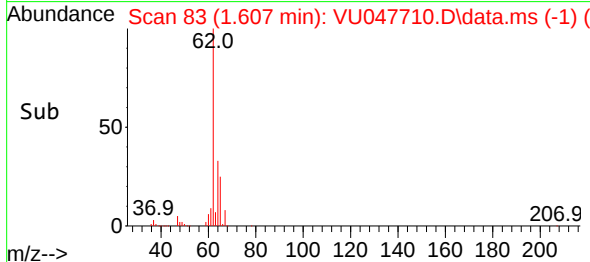
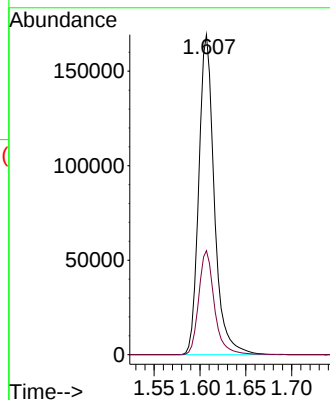
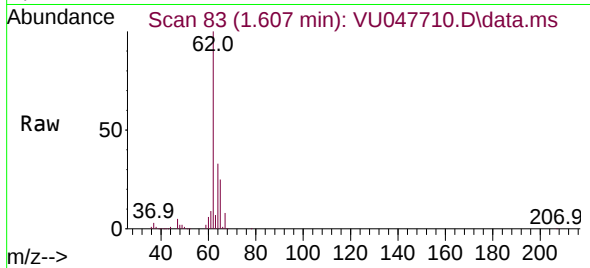




#5  
 Vinyl chloride  
 Concen: 68.816 ug/L  
 RT: 1.607 min Scan# 83  
 Delta R.T. 0.000 min  
 Lab File: VU047710.D  
 Acq: 26 Mar 2022 15:42

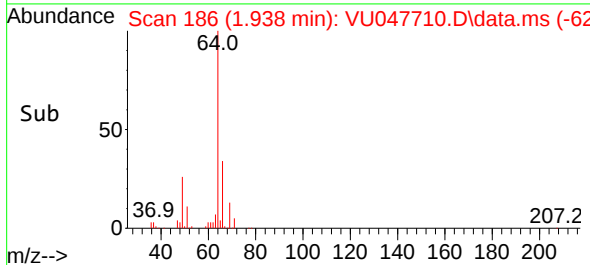
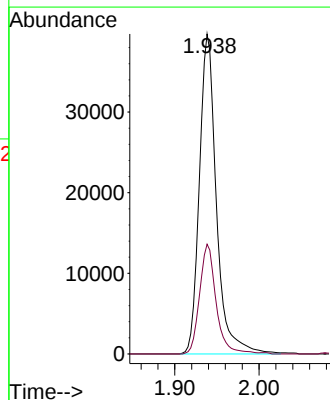
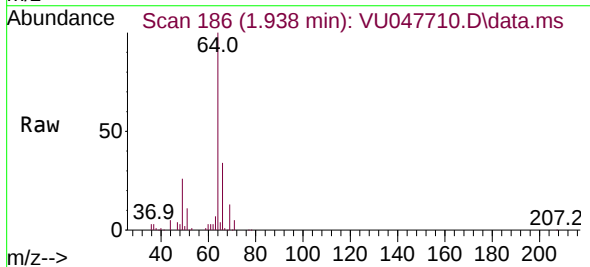
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
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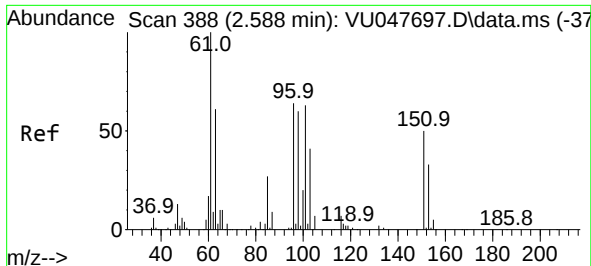
Tgt Ion: 62 Resp: 199065  
 Ion Ratio Lower Upper  
 62 100  
 64 32.5 23.7 43.9



#8  
 Chloroethane  
 Concen: 30.819 ug/L  
 RT: 1.938 min Scan# 186  
 Delta R.T. 0.000 min  
 Lab File: VU047710.D  
 Acq: 26 Mar 2022 15:42

Tgt Ion: 64 Resp: 55965  
 Ion Ratio Lower Upper  
 64 100  
 66 34.3 23.3 43.3

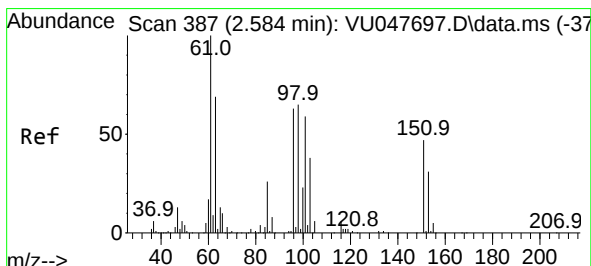
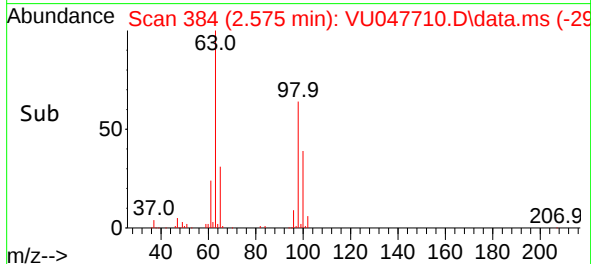
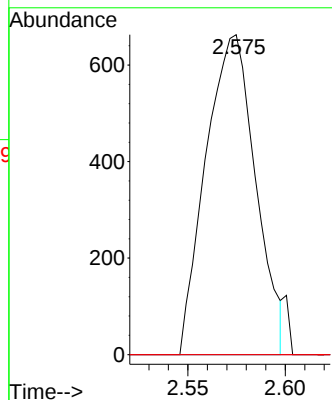
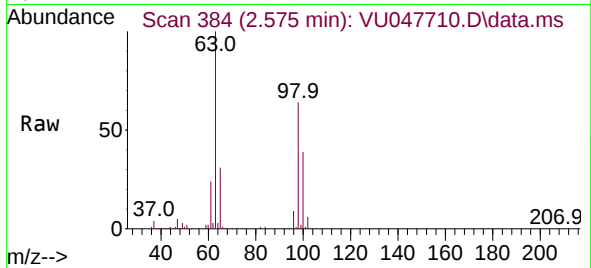




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.500 ug/L  
RT: 2.575 min Scan# 384  
Delta R.T. -0.013 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

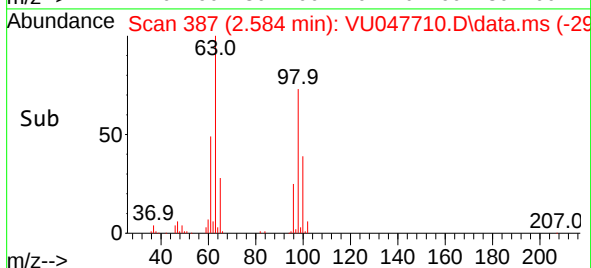
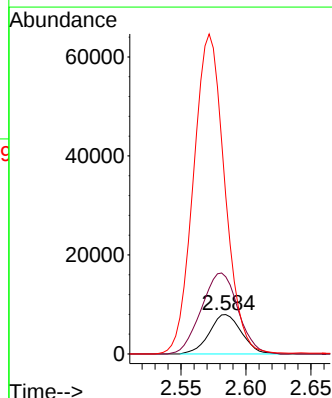
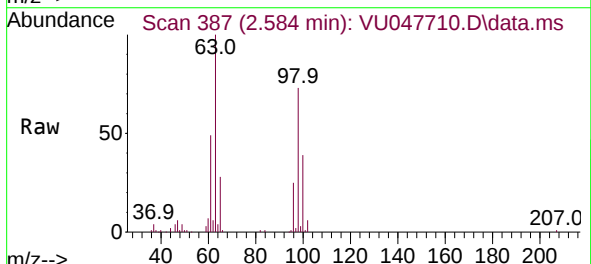
Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5X5

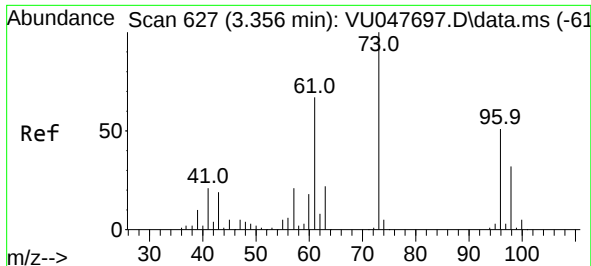
Tgt Ion:101 Resp: 1179  
Ion Ratio Lower Upper  
101 100  
85 0.0 32.8 49.2#  
151 0.0 63.0 94.6#



#12  
1,1-Dichloroethene  
Concen: 6.262 ug/L  
RT: 2.584 min Scan# 387  
Delta R.T. 0.000 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

Tgt Ion: 96 Resp: 13742  
Ion Ratio Lower Upper  
96 100  
61 195.6 113.1 210.1  
63 399.2 94.8 176.0#

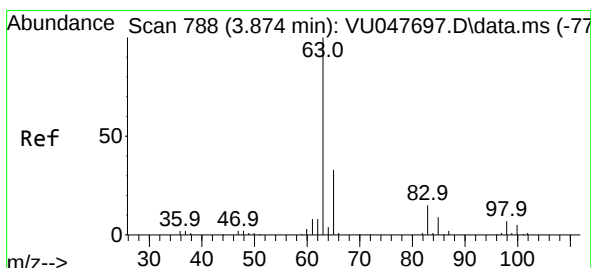
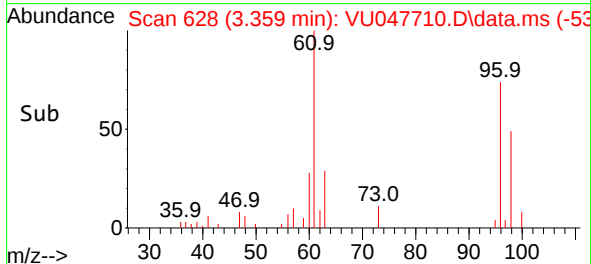
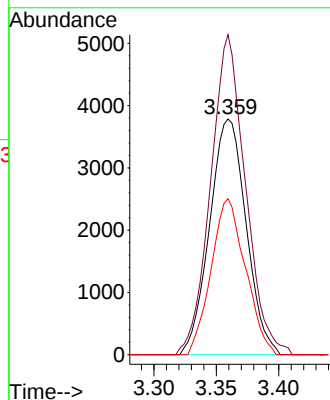
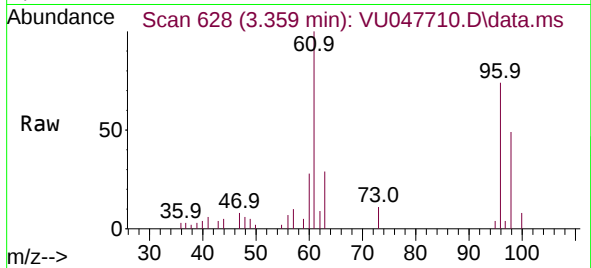




#17  
trans-1,2-Dichloroethene  
Concen: 3.261 ug/L  
RT: 3.359 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

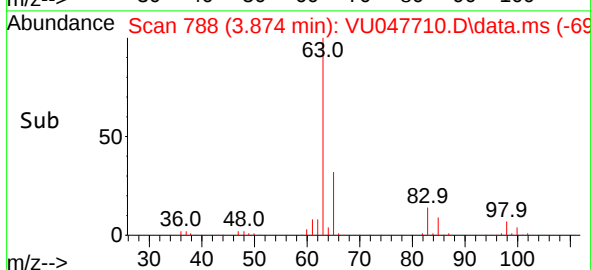
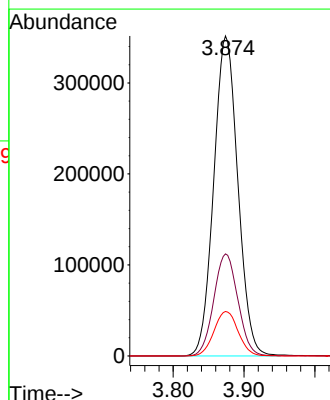
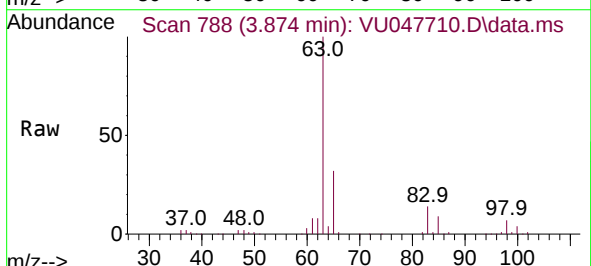
Instrument :  
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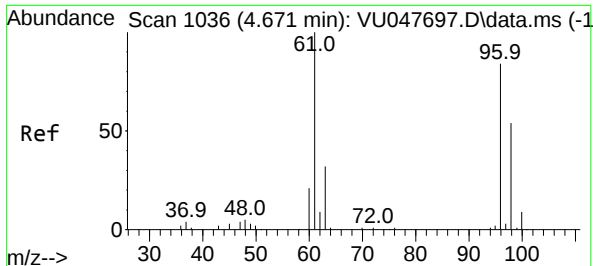
Tgt Ion: 96 Resp: 7718  
Ion Ratio Lower Upper  
96 100  
61 135.8 88.4 164.2  
98 66.2 43.3 80.5



#19  
1,1-Dichloroethane  
Concen: 203.156 ug/L  
RT: 3.874 min Scan# 788  
Delta R.T. 0.000 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

Tgt Ion: 63 Resp: 829286  
Ion Ratio Lower Upper  
63 100  
65 31.9 22.0 41.0  
83 13.9 9.7 18.1





#20

cis-1,2-Dichloroethene

Concen: 333.318 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU047710.D

Acq: 26 Mar 2022 15:42

Instrument :

MSVOA\_U

ClientSampleId :

EW5X5

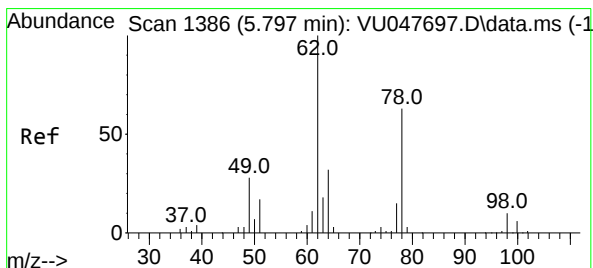
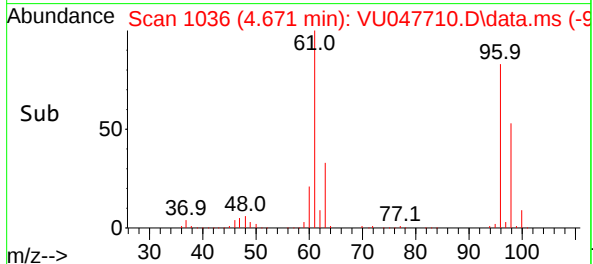
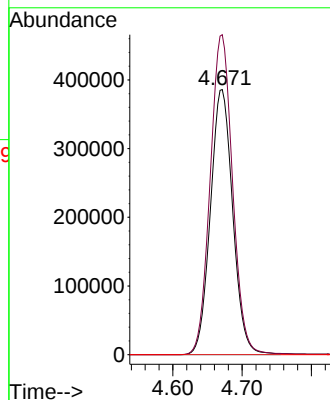
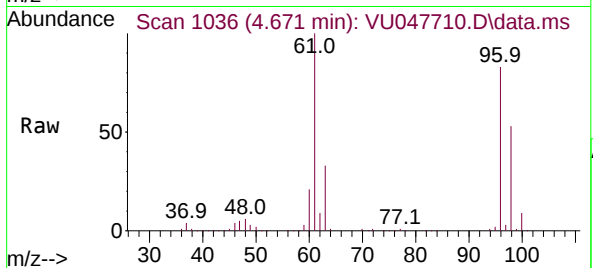
Tgt Ion: 96 Resp: 864899

Ion Ratio Lower Upper

96 100

61 120.7 80.7 149.9

68 0.0 0.0 0.0



#27

1,2-Dichloroethane

Concen: 1.793 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. -0.003 min

Lab File: VU047710.D

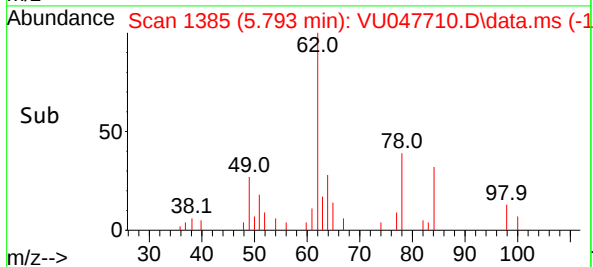
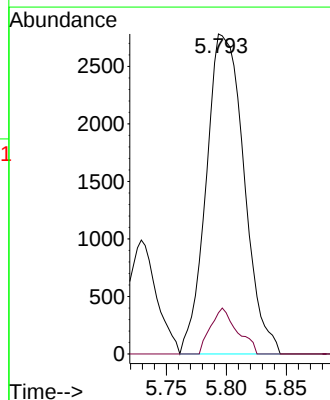
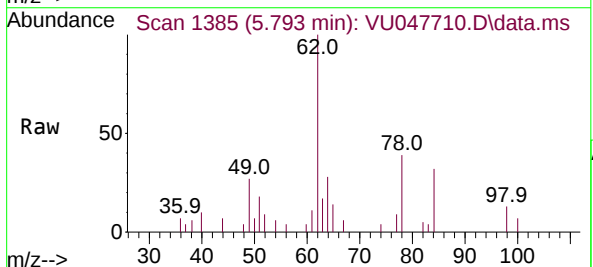
Acq: 26 Mar 2022 15:42

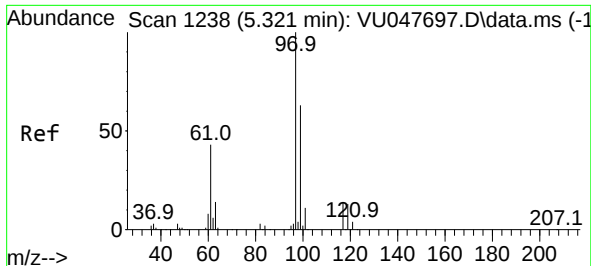
Tgt Ion: 62 Resp: 6089

Ion Ratio Lower Upper

62 100

98 12.9 7.4 11.0#





#30

1,1,1-Trichloroethane

Concen: 114.622 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

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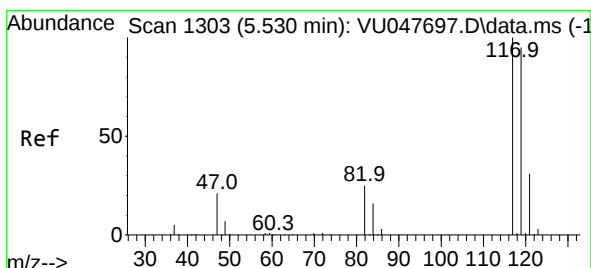
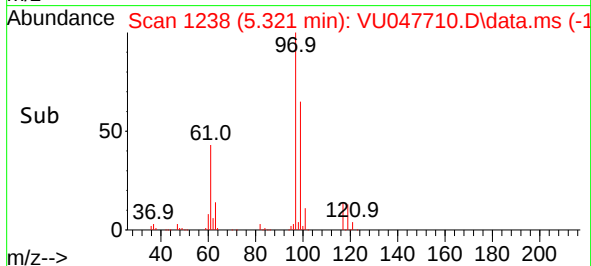
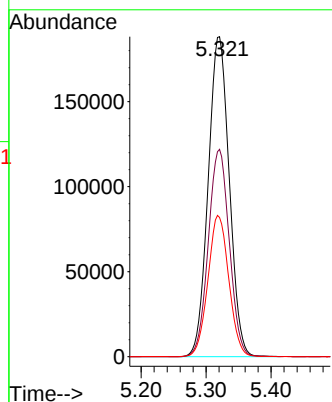
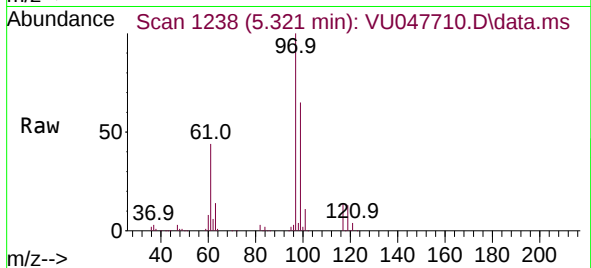
Tgt Ion: 97 Resp: 424574

Ion Ratio Lower Upper

97 100

99 64.6 51.6 77.4

61 43.8 34.2 51.4



#31

Carbon tetrachloride

Concen: 17.100 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.209 min

Lab File: VU047710.D

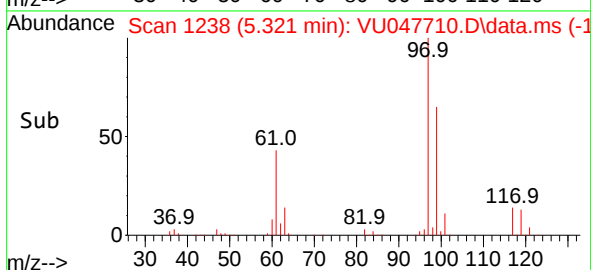
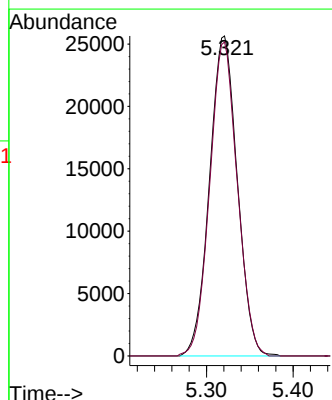
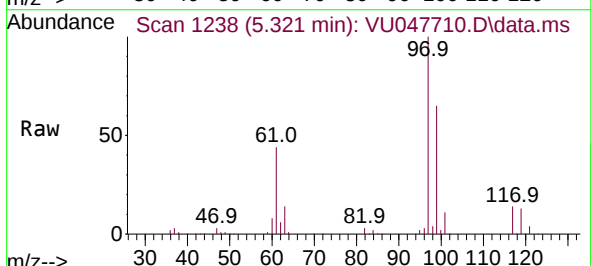
Acq: 26 Mar 2022 15:42

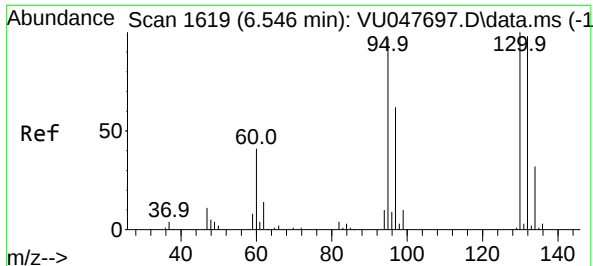
Tgt Ion: 117 Resp: 57196

Ion Ratio Lower Upper

117 100

119 97.1 77.2 115.8

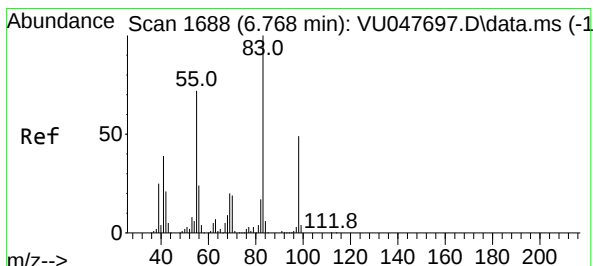
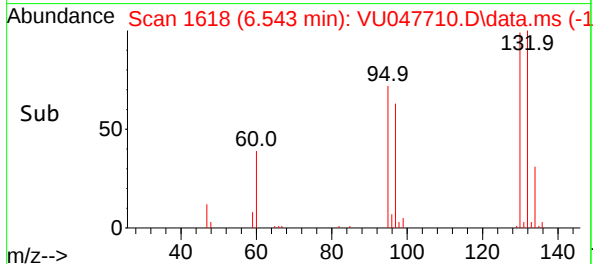
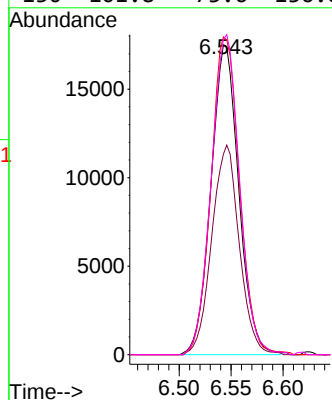
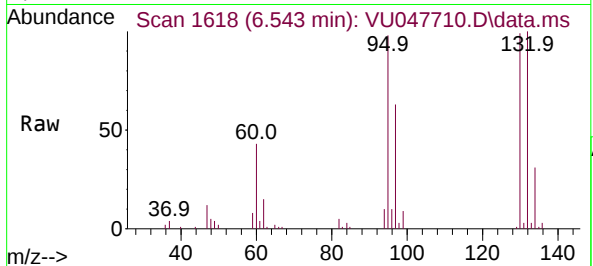




#34  
Trichloroethene  
Concen: 13.152 ug/L  
RT: 6.543 min Scan# 1618  
Delta R.T. -0.003 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

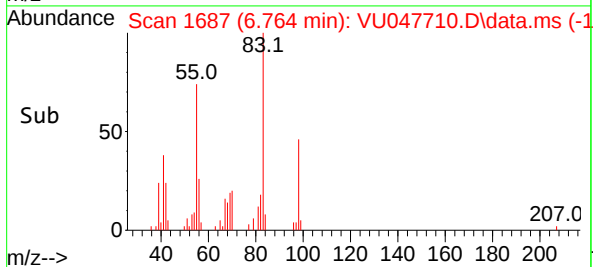
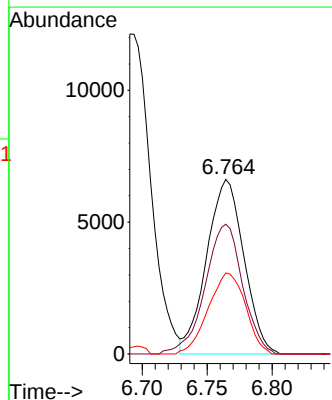
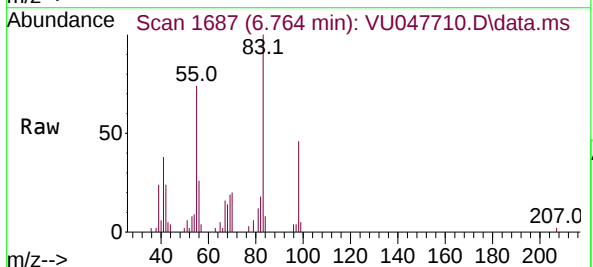
Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5X5

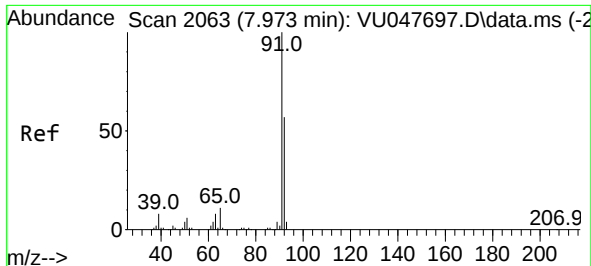
Tgt Ion: 95 Resp: 32603  
Ion Ratio Lower Upper  
95 100  
97 64.7 44.7 82.9  
132 102.6 70.4 130.8  
130 101.8 73.6 136.8



#35  
Methylcyclohexane  
Concen: 3.500 ug/L  
RT: 6.764 min Scan# 1687  
Delta R.T. -0.003 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

Tgt Ion: 83 Resp: 13201  
Ion Ratio Lower Upper  
83 100  
55 74.7 56.8 85.2  
98 46.2 38.1 57.1





#42

Toluene

Concen: 9.332 ug/L

RT: 7.970 min Scan# 2063

Delta R.T. -0.003 min

Lab File: VU047710.D

Acq: 26 Mar 2022 15:42

Instrument :

MSVOA\_U

ClientSampleId :

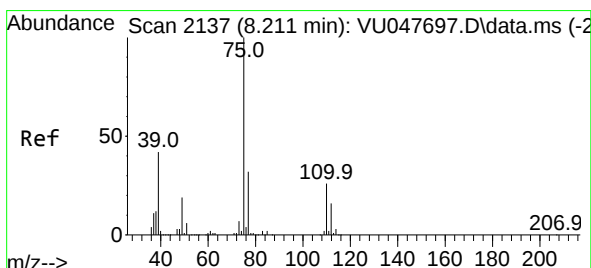
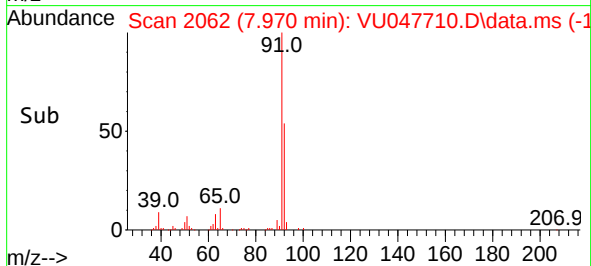
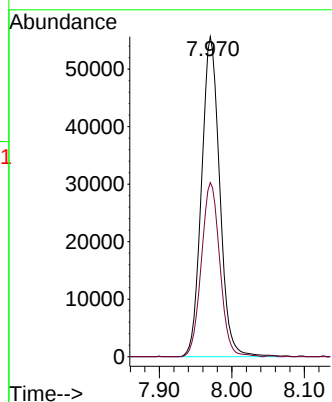
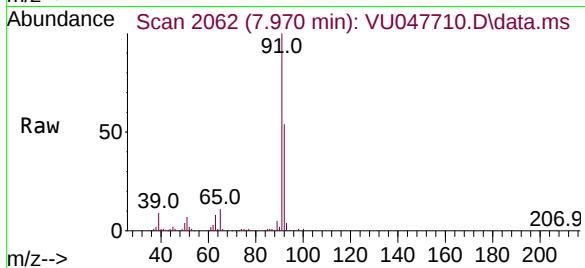
EW5X5

Tgt Ion: 91 Resp: 96824

Ion Ratio Lower Upper

91 100

92 54.4 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 0.647 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.032 min

Lab File: VU047710.D

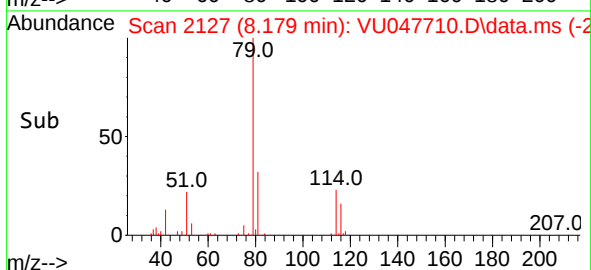
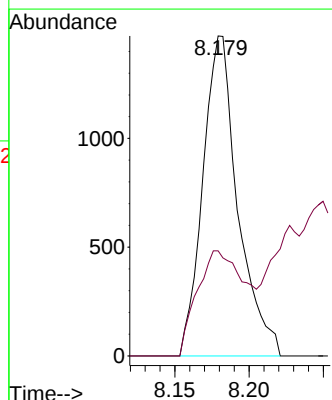
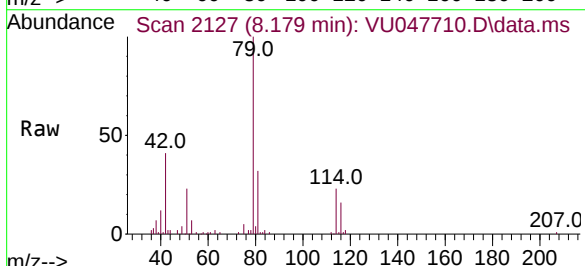
Acq: 26 Mar 2022 15:42

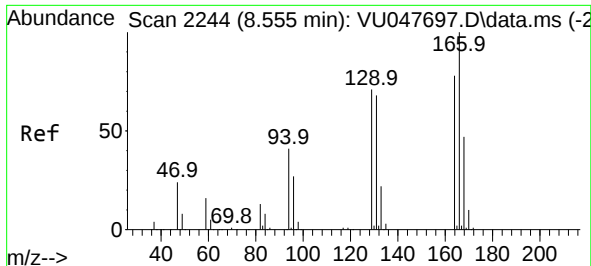
Tgt Ion: 75 Resp: 2408

Ion Ratio Lower Upper

75 100

77 32.8 22.0 40.8

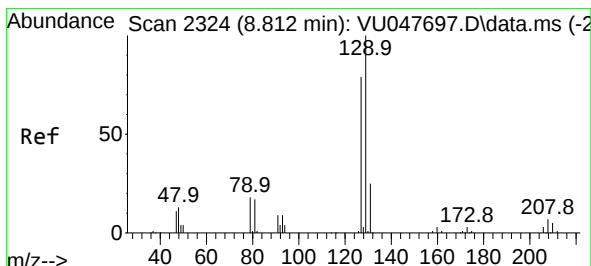
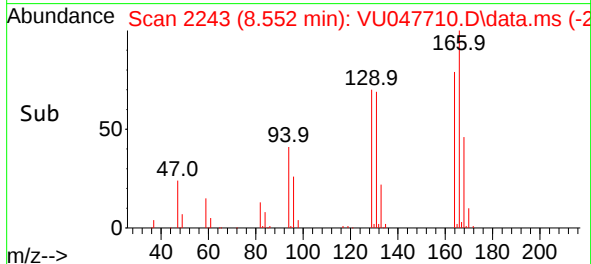
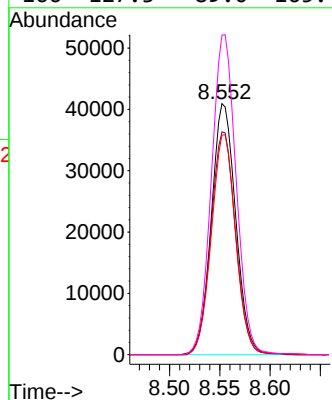
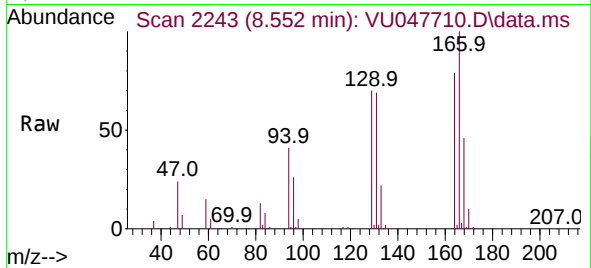




#46  
Tetrachloroethene  
Concen: 30.962 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. -0.003 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

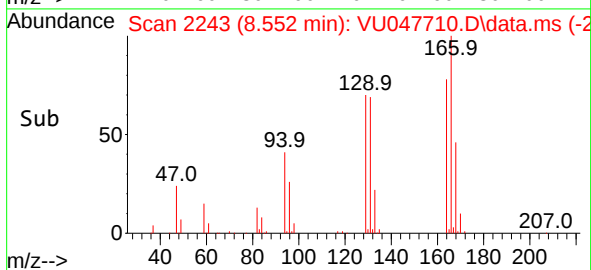
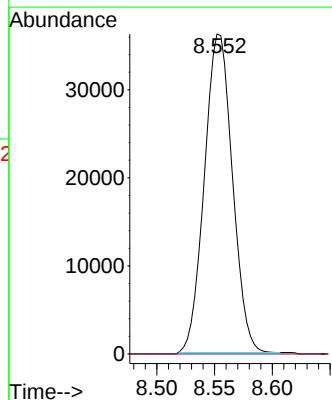
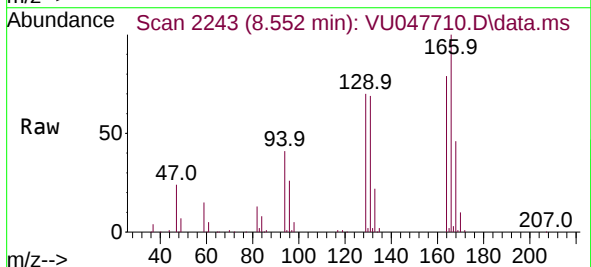
Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5X5

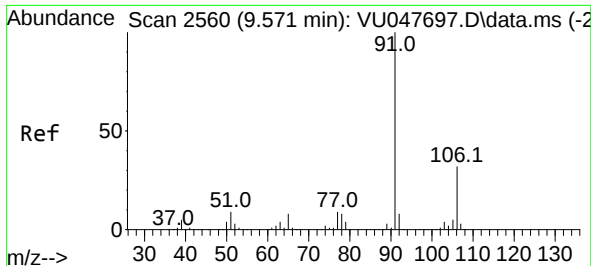
Tgt Ion:164 Resp: 68975  
Ion Ratio Lower Upper  
164 100  
129 88.8 62.4 116.0  
131 87.5 60.7 112.7  
166 127.3 89.0 165.4



#49  
Dibromochloromethane  
Concen: 20.679 ug/L  
RT: 8.552 min Scan# 2243  
Delta R.T. -0.260 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

Tgt Ion:129 Resp: 61061  
Ion Ratio Lower Upper  
129 100  
127 0.0 54.2 100.6#

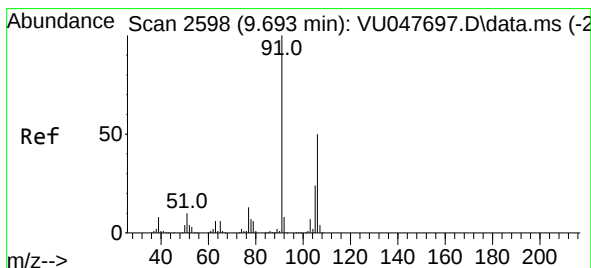
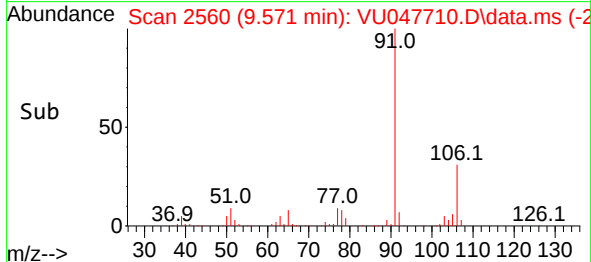
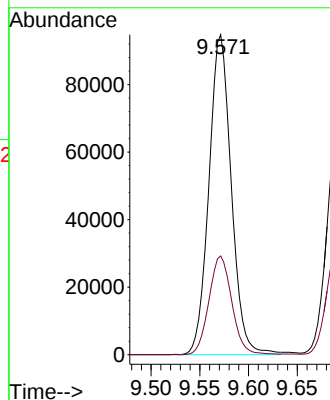
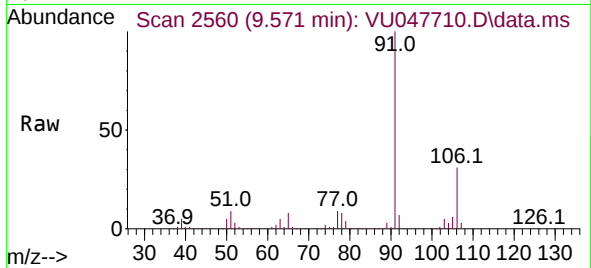




#52  
Ethylbenzene  
Concen: 13.888 ug/L  
RT: 9.571 min Scan# 2560  
Delta R.T. 0.000 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

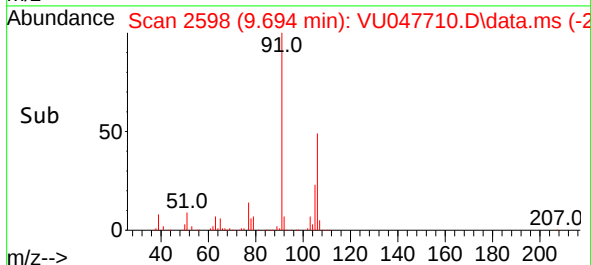
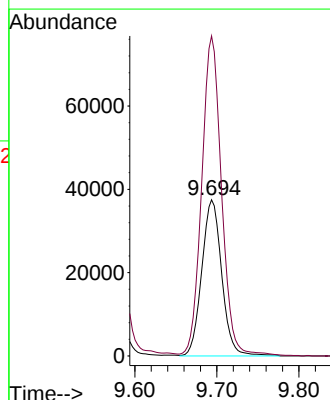
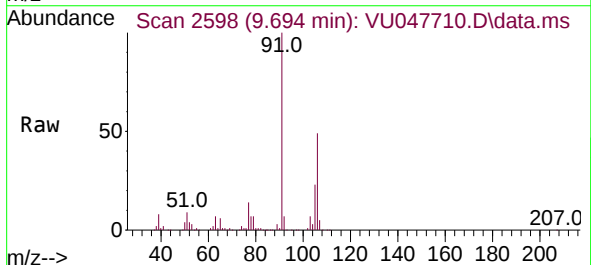
Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5X5

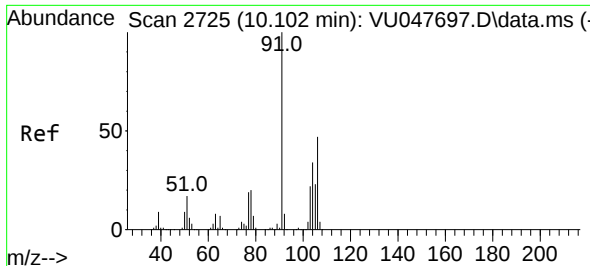
Tgt Ion: 91 Resp: 151506  
Ion Ratio Lower Upper  
91 100  
106 30.8 22.4 41.6



#53  
m,p-Xylene  
Concen: 14.820 ug/L  
RT: 9.694 min Scan# 2598  
Delta R.T. 0.000 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

Tgt Ion: 106 Resp: 63437  
Ion Ratio Lower Upper  
106 100  
91 205.0 137.7 255.7

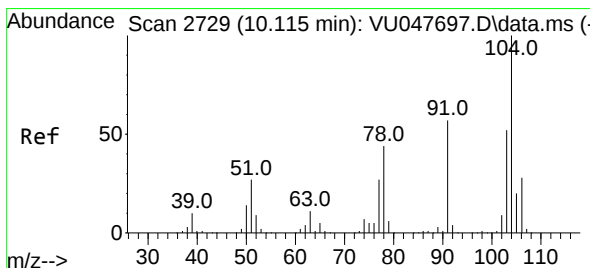
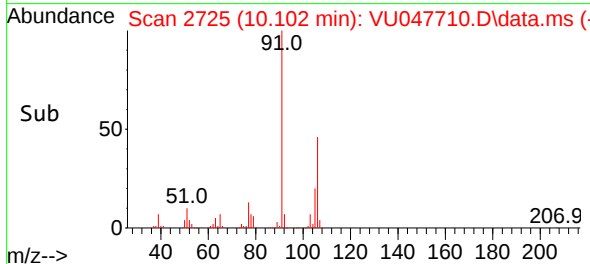
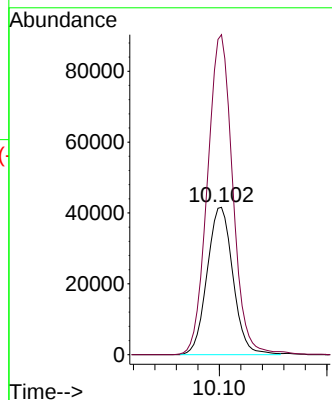
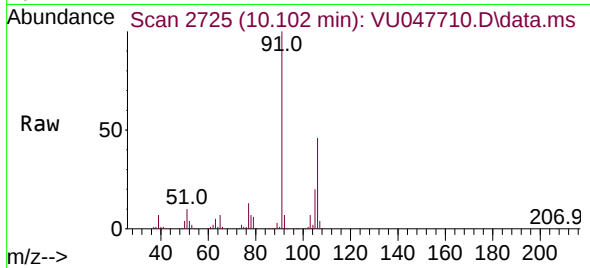




#54  
o-Xylene  
Concen: 16.532 ug/L  
RT: 10.102 min Scan# 2725  
Delta R.T. 0.000 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

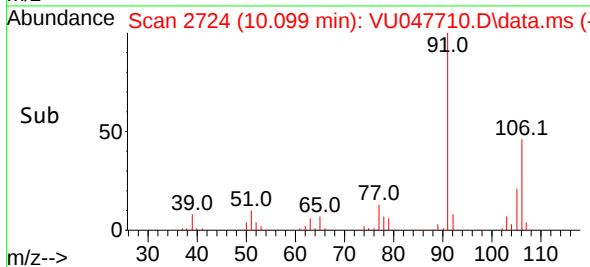
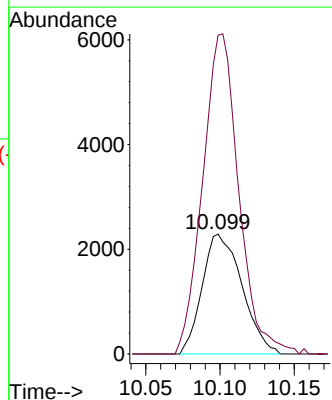
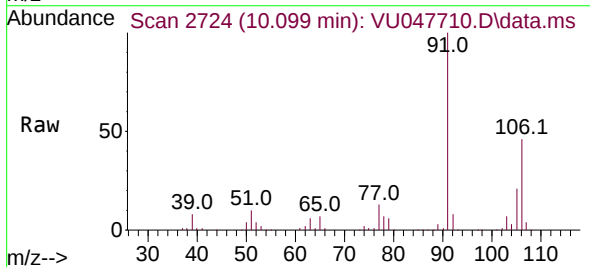
Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5X5

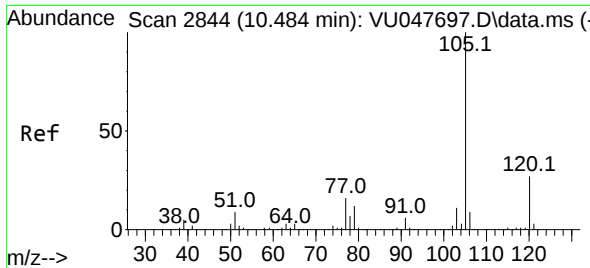
Tgt Ion:106 Resp: 69452  
Ion Ratio Lower Upper  
106 100  
91 217.1 146.7 272.5



#55  
Styrene  
Concen: 0.594 ug/L  
RT: 10.099 min Scan# 2724  
Delta R.T. -0.016 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

Tgt Ion:104 Resp: 4264  
Ion Ratio Lower Upper  
104 100  
78 266.2 30.4 56.4#

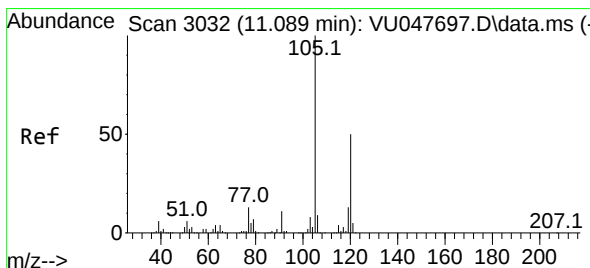
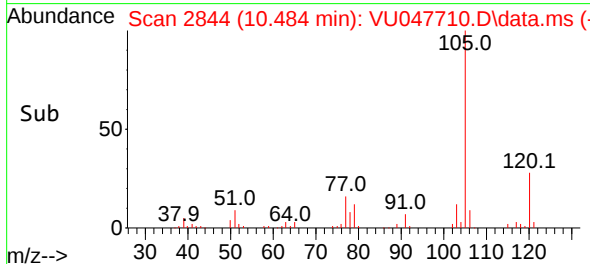
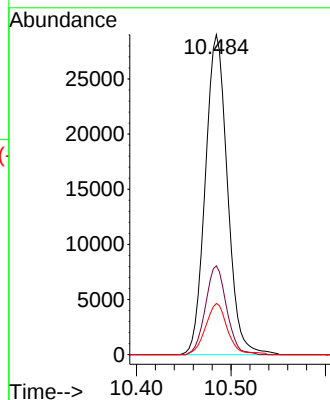
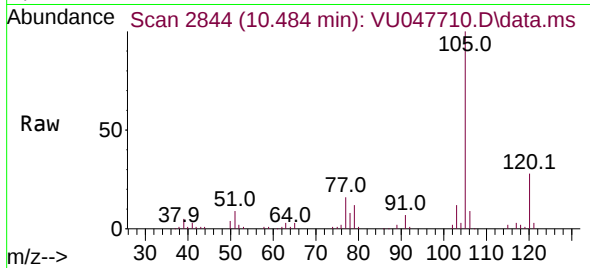




#61  
Isopropylbenzene  
Concen: 4.396 ug/L  
RT: 10.484 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

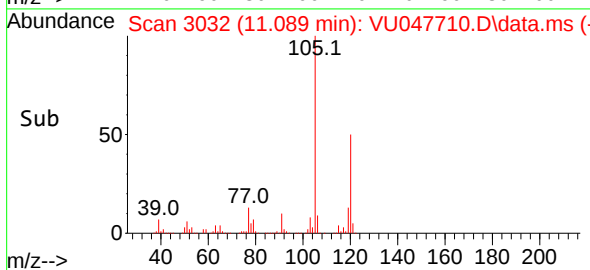
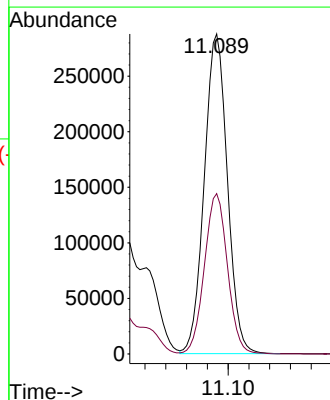
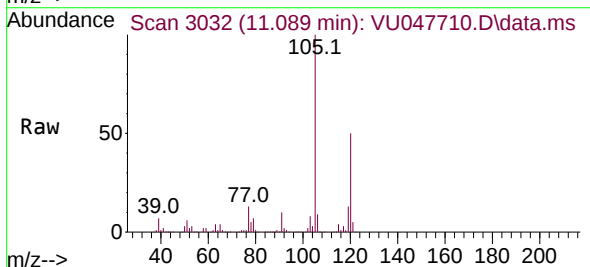
Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5X5

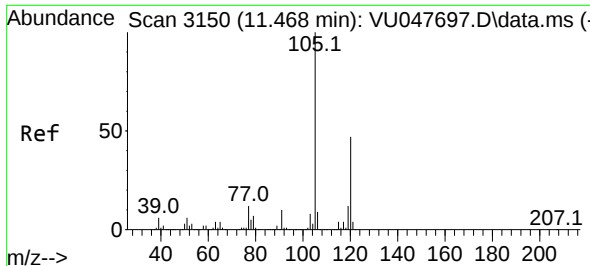
Tgt Ion:105 Resp: 47197  
Ion Ratio Lower Upper  
105 100  
120 26.5 21.9 32.9  
77 15.5 12.1 18.1



#62  
1,3,5-Trimethylbenzene  
Concen: 76.221 ug/L  
RT: 11.089 min Scan# 3032  
Delta R.T. 0.000 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

Tgt Ion:105 Resp: 444040  
Ion Ratio Lower Upper  
105 100  
120 50.2 40.8 61.2

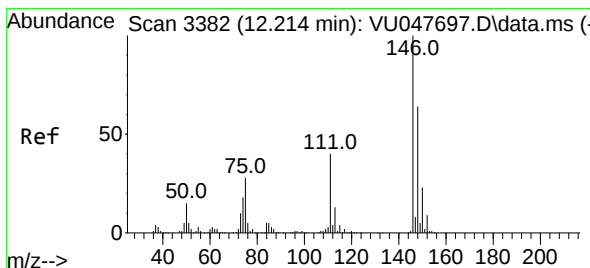
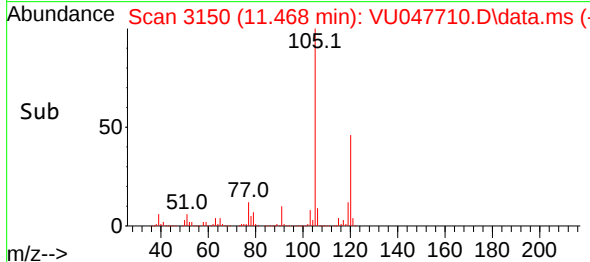
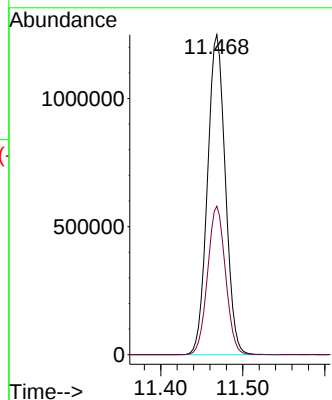
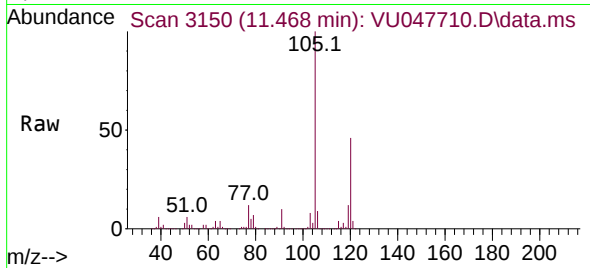




#63  
1,2,4-Trimethylbenzene  
Concen: 213.224 ug/L  
RT: 11.468 min Scan# 3150  
Delta R.T. 0.000 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

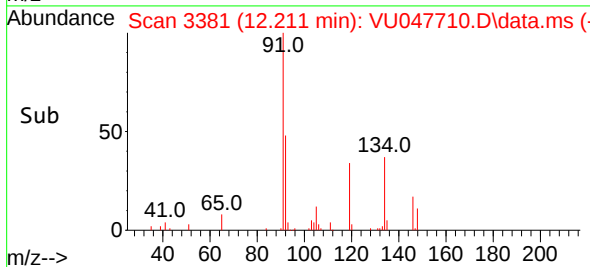
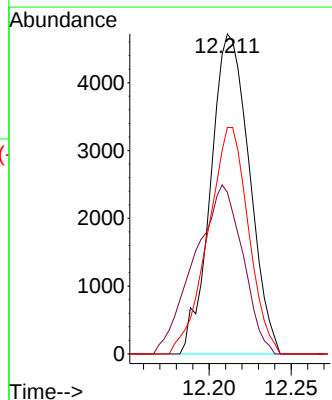
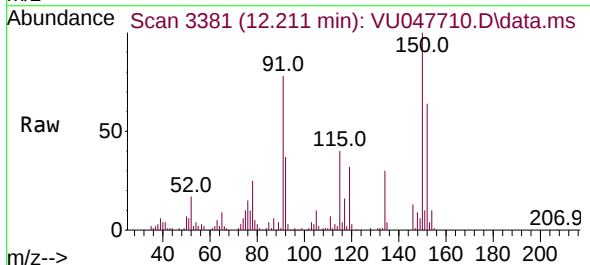
Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5X5

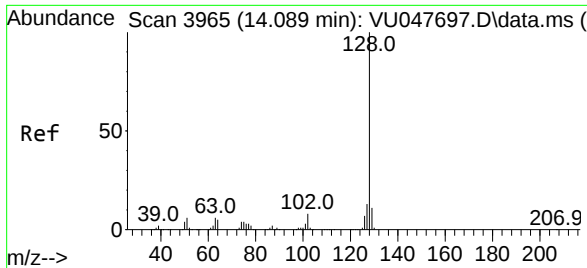
Tgt Ion:105 Resp: 1886843  
Ion Ratio Lower Upper  
105 100  
120 46.6 37.6 56.4



#67  
1,2-Dichlorobenzene  
Concen: 1.292 ug/L  
RT: 12.211 min Scan# 3381  
Delta R.T. -0.003 min  
Lab File: VU047710.D  
Acq: 26 Mar 2022 15:42

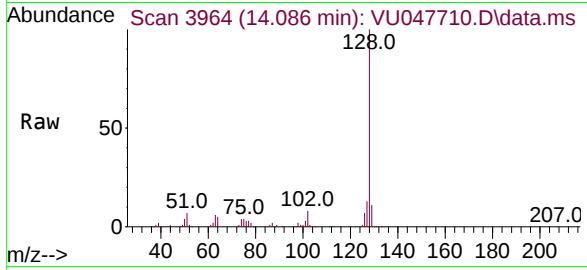
Tgt Ion:146 Resp: 7716  
Ion Ratio Lower Upper  
146 100  
111 54.8 31.7 47.5#  
148 70.8 51.4 77.2





#71  
 Naphthalene  
 Concen: 11.667 ug/L  
 RT: 14.086 min Scan# 3964  
 Delta R.T. -0.003 min  
 Lab File: VU047710.D  
 Acq: 26 Mar 2022 15:42

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW5X5



Tgt Ion:128 Resp: 147667

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.1  | 10.2  | 15.2  |
| 129 | 10.8  | 8.8   | 13.2  |

