

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX062521\  
 Data File : VX022919.D  
 Acq On : 25 Jun 2021 13:41  
 Operator : JC/MD  
 Sample : M2838-13  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 26 03:53:13 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062321W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 23 19:12:26 2021  
 Response via : Initial Calibration

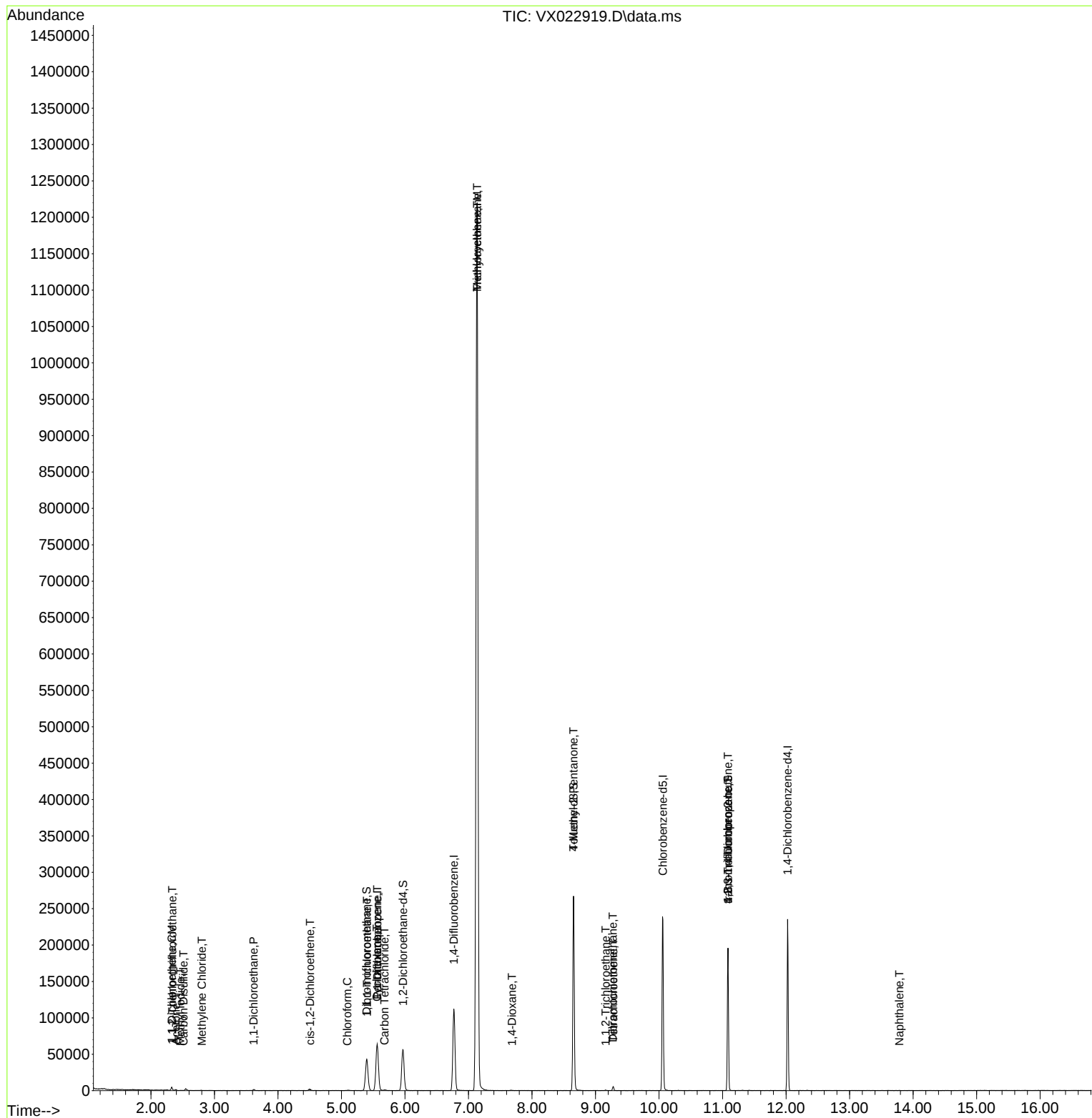
| Compound                      | R.T.           | QIon | Response           | Conc   | Units | Dev(Min) |
|-------------------------------|----------------|------|--------------------|--------|-------|----------|
| -----                         |                |      |                    |        |       |          |
| Internal Standards            |                |      |                    |        |       |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 52815              | 50.00  | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 108920             | 50.00  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.061         | 117  | 101387             | 50.00  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 41508              | 50.00  | ug/l  | 0.00     |
|                               |                |      |                    |        |       |          |
| System Monitoring Compounds   |                |      |                    |        |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.970          | 65   | 51575              | 53.81  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 107.62% |        |       |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 36348              | 52.55  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 105.10% |        |       |          |
| 50) Toluene-d8                | 8.653          | 98   | 145852             | 53.80  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 107.60% |        |       |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 51163              | 50.57  | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 101.14% |        |       |          |
|                               |                |      |                    |        |       |          |
| Target Compounds              |                |      |                    |        |       | Qvalue   |
| 9) 1,1,2-Trichlorotrifluo...  | 2.337          | 101  | 544                | 0.79   | ug/l  | # 83     |
| 10) Methyl Iodide             | 2.465          | 142  | 106                | 4.00   | ug/l  | # 42     |
| 12) 1,1-Dichloroethene        | 2.331          | 96   | 937                | 1.37   | ug/l  | # 80     |
| 16) Acetone                   | 2.392          | 43   | 1094               | 2.57   | ug/l  | # 85     |
| 17) Carbon Disulfide          | 2.514          | 76   | 202                | 3.62   | ug/l  | # 75     |
| 20) Methylene Chloride        | 2.800          | 84   | 79                 | 0.47   | ug/l  | # 48     |
| 24) 1,1-Dichloroethane        | 3.617          | 63   | 1775               | 1.23   | ug/l  | # 81     |
| 27) cis-1,2-Dichloroethene    | 4.507          | 96   | 1122               | 1.33   | ug/l  | 57       |
| 30) Chloroform                | 5.092          | 83   | 658                | 0.45   | ug/l  | 96       |
| 31) Cyclohexane               | 5.556          | 56   | 1551               | 1.15   | ug/l  | # 3      |
| 32) 1,1,1-Trichloroethane     | 5.403          | 97   | 482                | 0.41   | ug/l  | # 33     |
| 36) 1,1-Dichloropropene       | 5.562          | 75   | 5332               | 4.61   | ug/l  | # 45     |
| 38) Carbon Tetrachloride      | 5.678          | 117  | 652                | 0.67   | ug/l  | 85       |
| 39) Methylcyclohexane         | 7.135          | 83   | 5666               | 4.20   | ug/l  | # 1      |
| 44) Trichloroethene           | 7.135          | 130  | 412740             | 521.71 | ug/l  | 89       |
| 49) 1,4-Dioxane               | 7.683          | 88   | 261                | 12.16  | ug/l  | # 70     |
| 51) 4-Methyl-2-Pentanone      | 8.653          | 43   | 777                | 0.58   | ug/l  | # 1      |
| 55) 1,1,2-Trichloroethane     | 9.159          | 97   | 258                | 0.32   | ug/l  | # 84     |
| 60) Dibromochloromethane      | 9.275          | 129  | 810                | 4.60   | ug/l  | # 11     |
| 64) Tetrachloroethene         | 9.281          | 164  | 793                | 1.11   | ug/l  | 97       |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 28798              | 26.27  | ug/l  | # 38     |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 28798              | 68.22  | ug/l  | # 12     |
| 95) Naphthalene               | 13.786         | 128  | 184                | 1.97   | ug/l  | # 69     |
| -----                         |                |      |                    |        |       |          |

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

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Sample : M2838-13  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

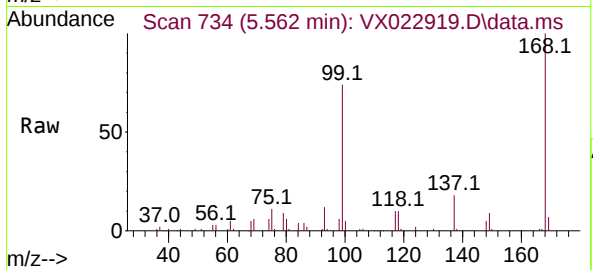
Quant Time: Jun 26 03:53:13 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062321W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 23 19:12:26 2021  
Response via : Initial Calibration



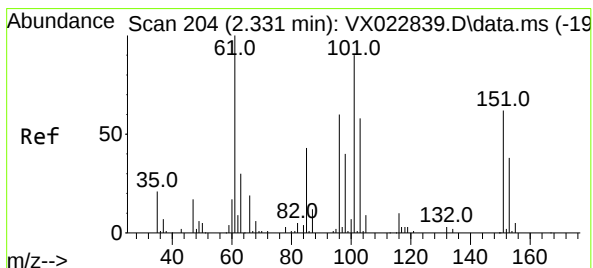
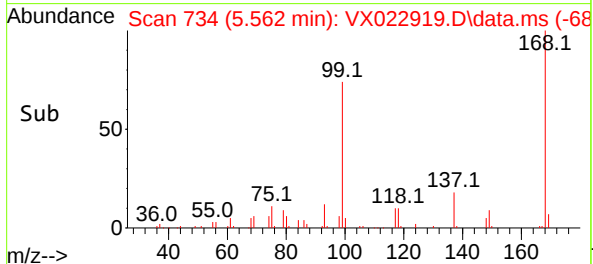
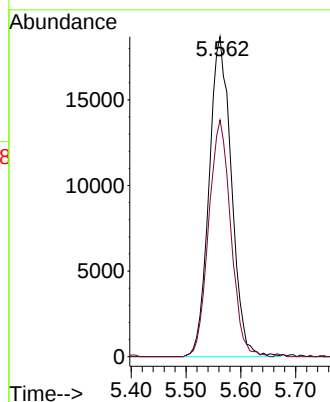


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.006 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

Instrument :  
MSVOA\_X  
ClientSampleId :

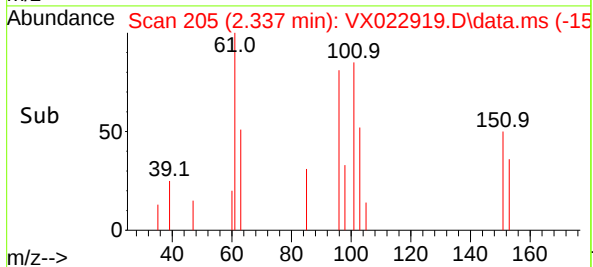
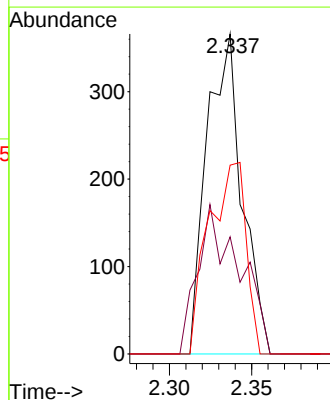
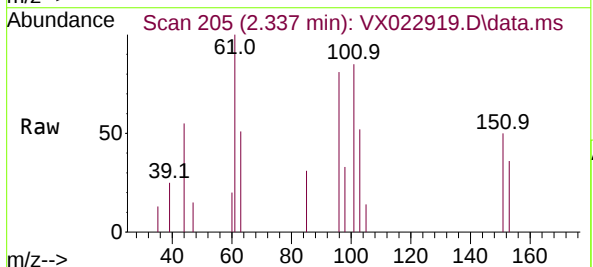


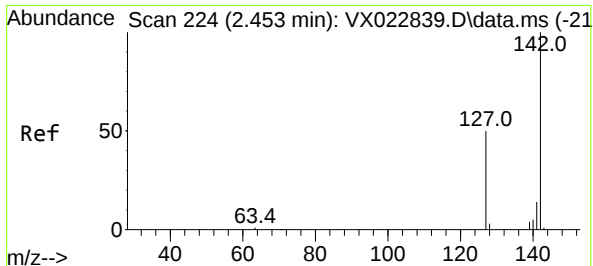
Tgt Ion:168 Resp: 52815  
Ion Ratio Lower Upper  
168 100  
99 73.9 45.8 68.6#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.79 ug/l  
RT: 2.337 min Scan# 205  
Delta R.T. 0.006 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

Tgt Ion:101 Resp: 544  
Ion Ratio Lower Upper  
101 100  
85 55.3 34.9 52.3#  
151 63.2 61.4 92.2

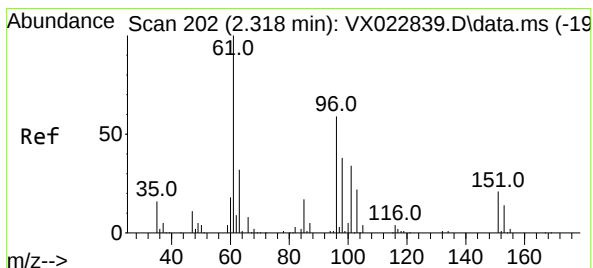
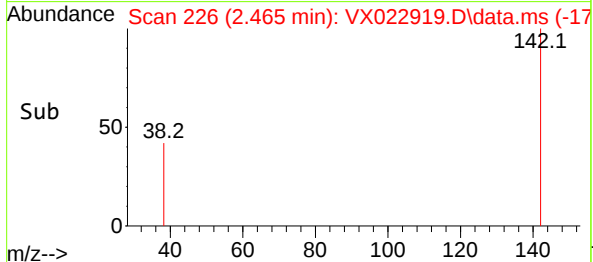
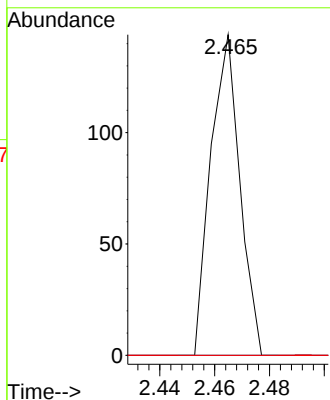
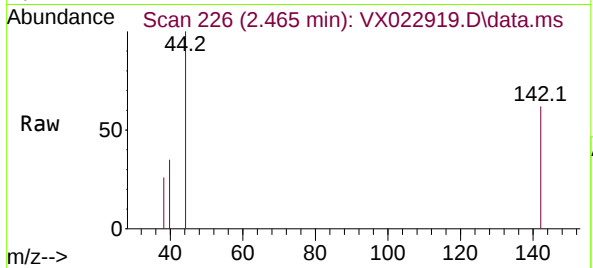




#10  
Methyl Iodide  
Concen: 4.00 ug/l  
RT: 2.465 min Scan# 226  
Delta R.T. 0.012 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

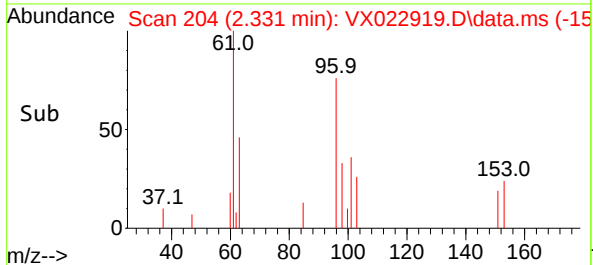
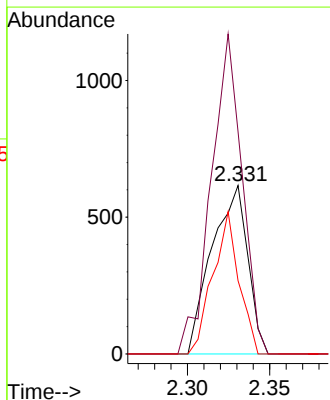
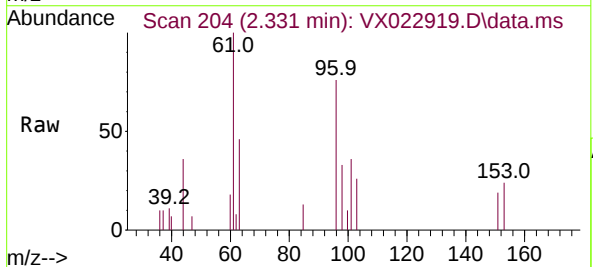
Instrument :  
MSVOA\_X  
ClientSampled :

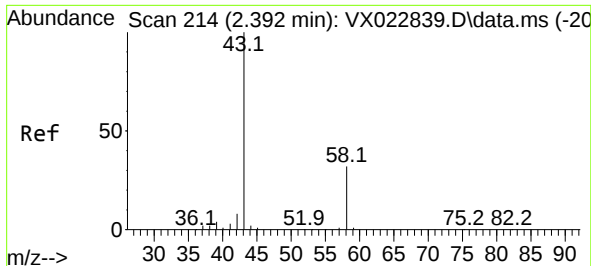
Tgt Ion:142 Resp: 106  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.3 49.9#  
141 0.0 11.4 17.0#



#12  
1,1-Dichloroethene  
Concen: 1.37 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. 0.013 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

Tgt Ion: 96 Resp: 937  
Ion Ratio Lower Upper  
96 100  
61 132.0 124.6 187.0  
98 43.5 50.6 76.0#

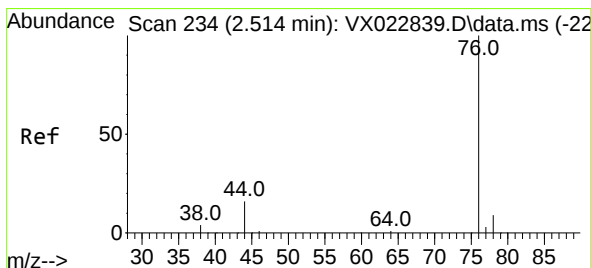
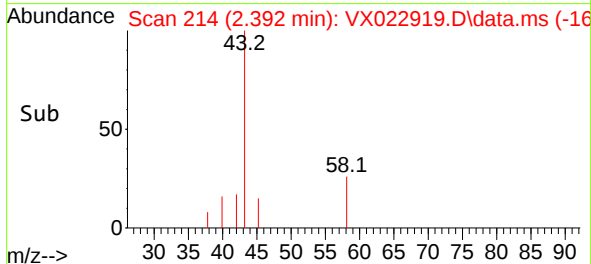
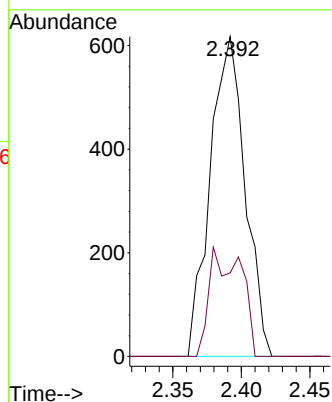
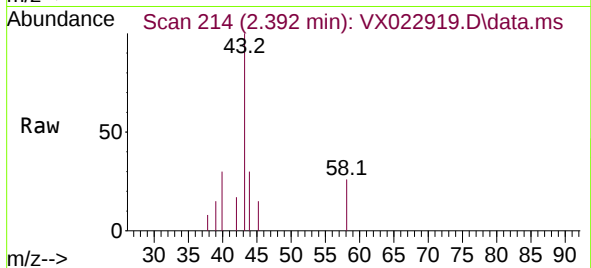




#16  
Acetone  
Concen: 2.57 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

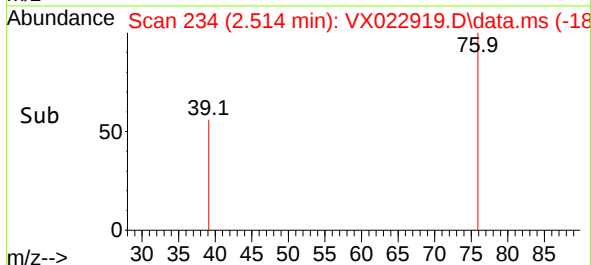
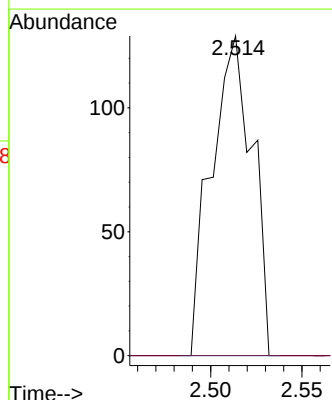
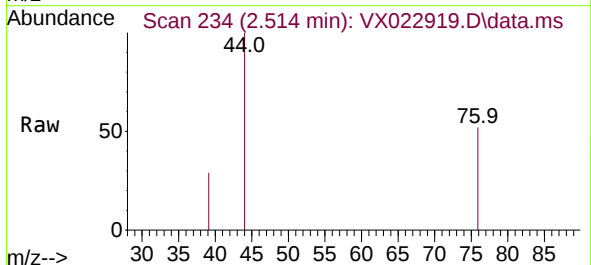
Instrument :  
MSVOA\_X  
ClientSampleId :

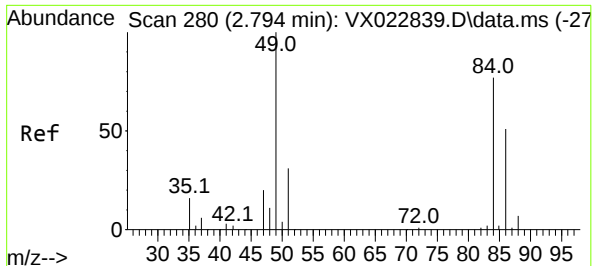
Tgt Ion: 43 Resp: 1094  
Ion Ratio Lower Upper  
43 100  
58 26.1 27.8 41.8#



#17  
Carbon Disulfide  
Concen: 3.62 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. -0.000 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

Tgt Ion: 76 Resp: 202  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#





#20

Methylene Chloride

Concen: 0.47 ug/l

RT: 2.800 min Scan# 281

Delta R.T. 0.006 min

Lab File: VX022919.D

Acq: 25 Jun 2021 13:41

Tgt Ion: 84 Resp: 79

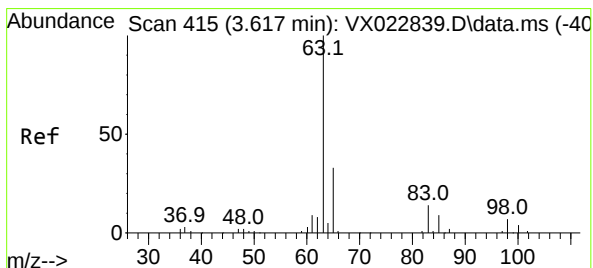
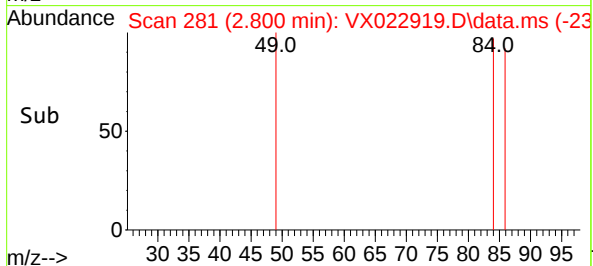
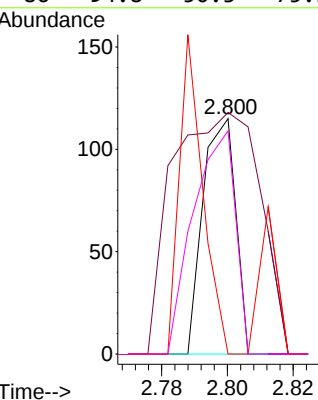
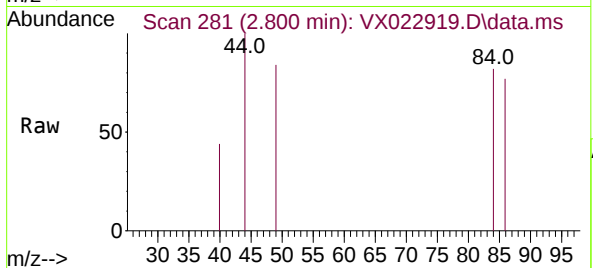
Ion Ratio Lower Upper

84 100

49 50.4 88.6 132.8#

51 0.0 27.0 40.6#

86 94.8 50.3 75.5#



#24

1,1-Dichloroethane

Concen: 1.23 ug/l

RT: 3.617 min Scan# 415

Delta R.T. 0.000 min

Lab File: VX022919.D

Acq: 25 Jun 2021 13:41

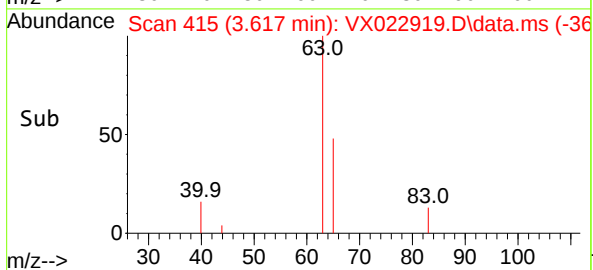
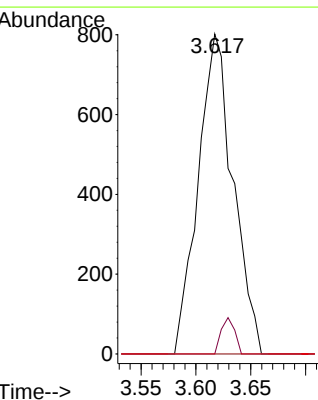
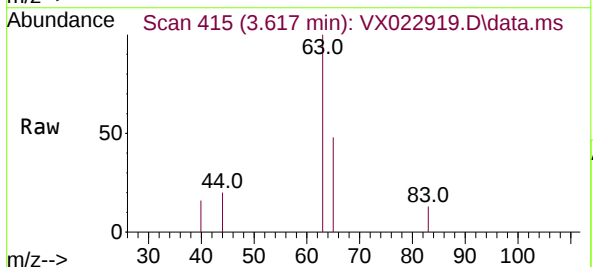
Tgt Ion: 63 Resp: 1775

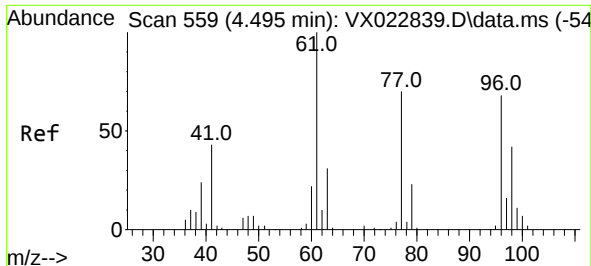
Ion Ratio Lower Upper

63 100

98 0.0 3.8 11.2#

100 0.0 2.5 7.5#





#27

cis-1,2-Dichloroethene

Concen: 1.33 ug/l

RT: 4.507 min Scan# 561

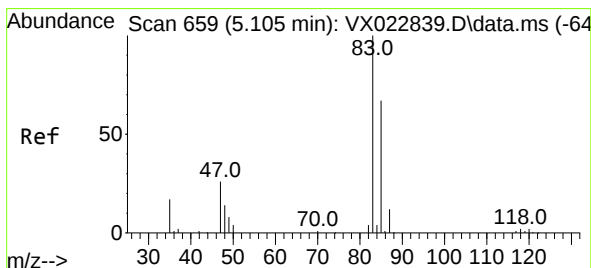
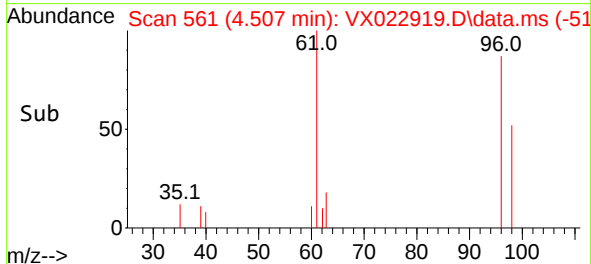
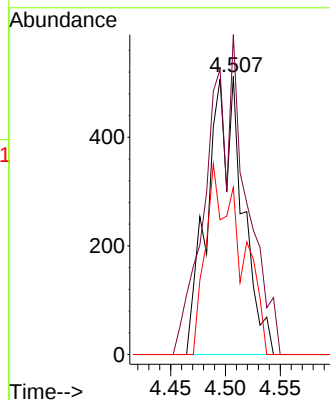
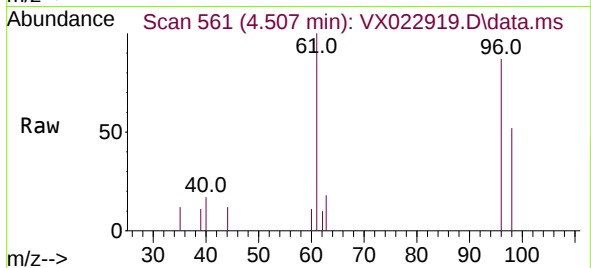
Delta R.T. 0.012 min

Lab File: VX022919.D

Acq: 25 Jun 2021 13:41

Tgt Ion: 96 Resp: 1122

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 69.5  | 0.0   | 285.6 |
| 98  | 69.3  | 0.0   | 129.6 |



#30

Chloroform

Concen: 0.45 ug/l

RT: 5.092 min Scan# 657

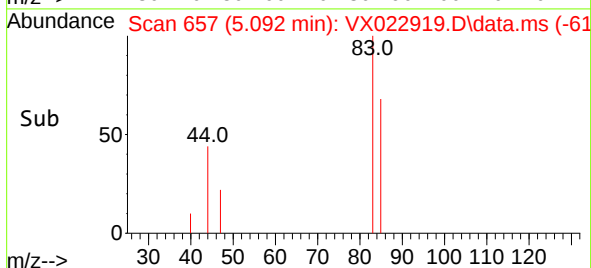
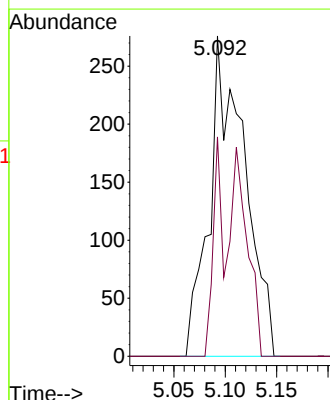
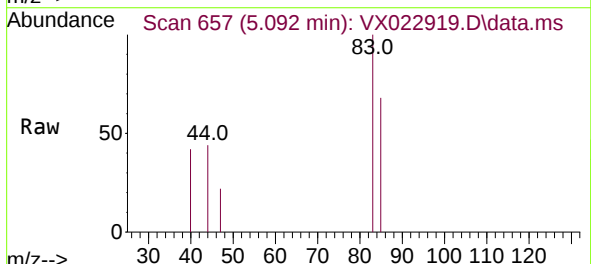
Delta R.T. -0.013 min

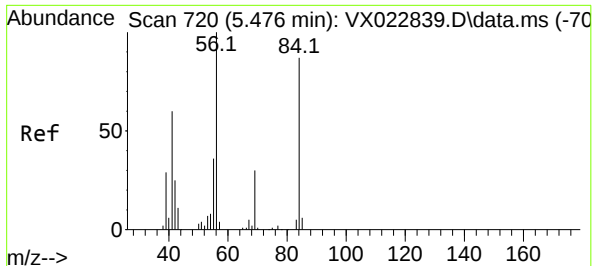
Lab File: VX022919.D

Acq: 25 Jun 2021 13:41

Tgt Ion: 83 Resp: 658

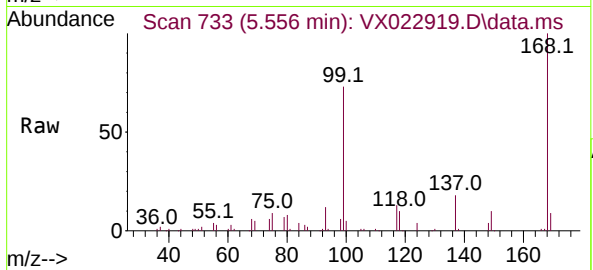
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 68.5  | 52.0  | 78.0  |



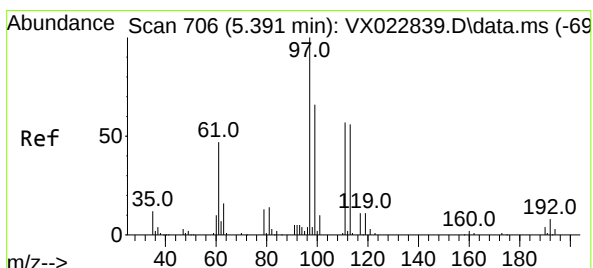
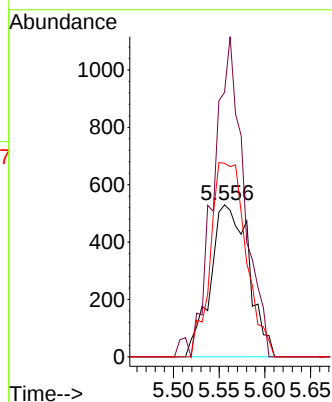
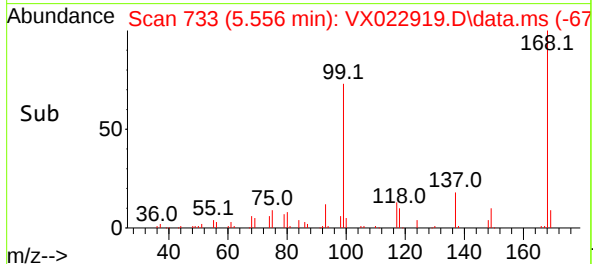


#31  
Cyclohexane  
Concen: 1.15 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.080 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

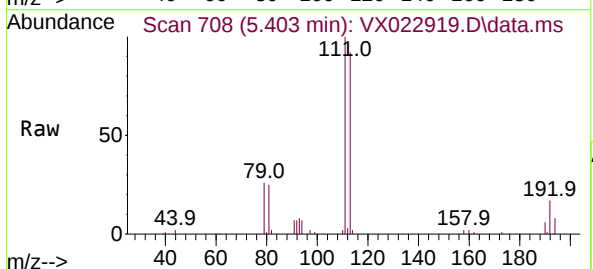
Instrument :  
MSVOA\_X  
ClientSampleId :



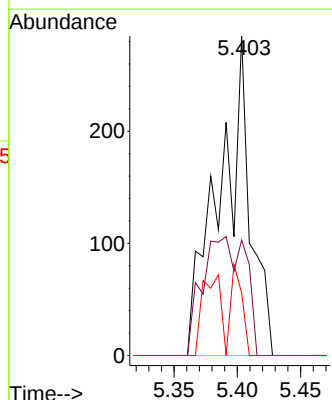
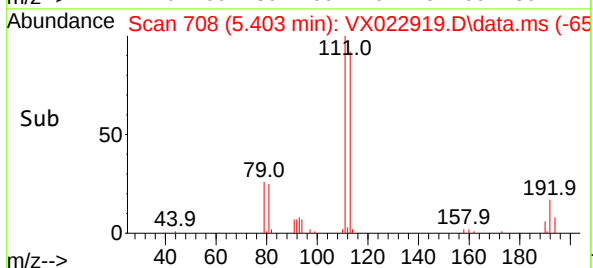
Tgt Ion: 56 Resp: 1551  
Ion Ratio Lower Upper  
56 100  
69 174.0 25.3 37.9#  
84 127.4 71.4 107.0#

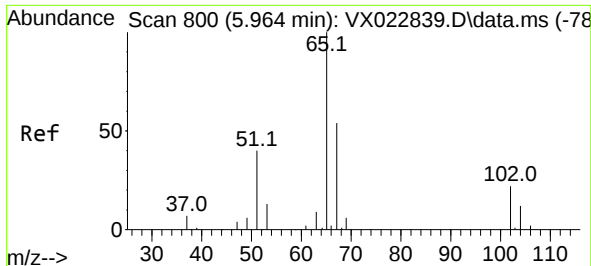


#32  
1,1,1-Trichloroethane  
Concen: 0.41 ug/l  
RT: 5.403 min Scan# 708  
Delta R.T. 0.012 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41



Tgt Ion: 97 Resp: 482  
Ion Ratio Lower Upper  
97 100  
99 0.0 51.5 77.3#  
61 15.1 34.2 51.4#

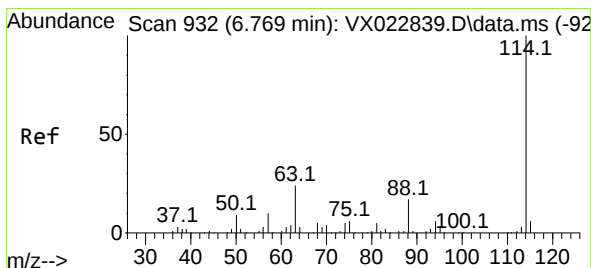
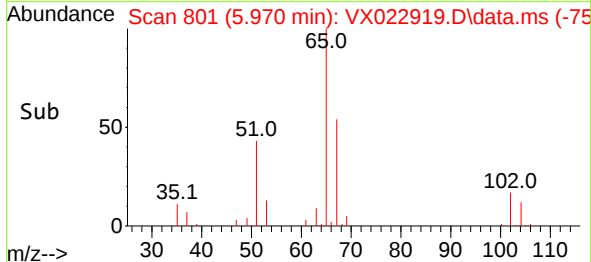
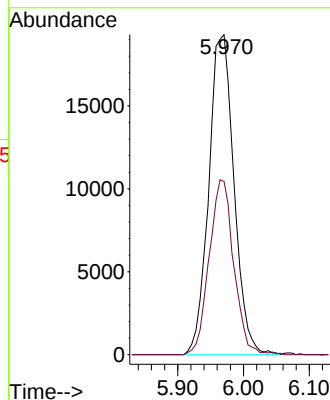
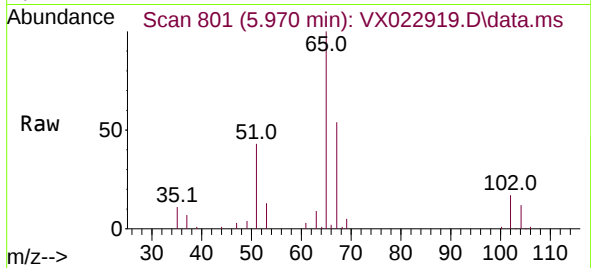




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.81 ug/l  
 RT: 5.970 min Scan# 801  
 Delta R.T. 0.006 min  
 Lab File: VX022919.D  
 Acq: 25 Jun 2021 13:41

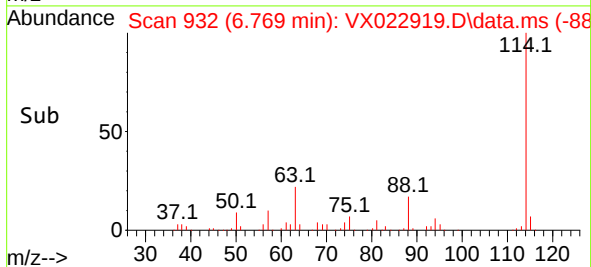
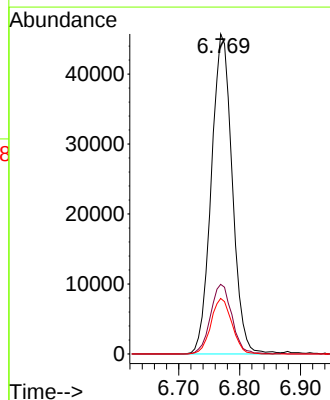
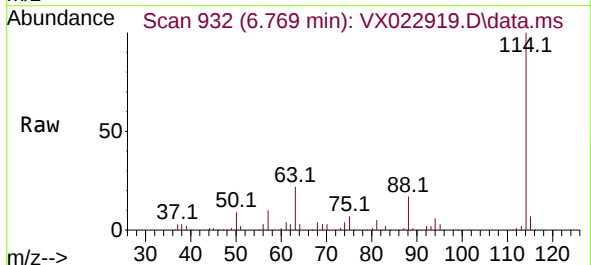
Instrument :  
 MSVOA\_X  
 ClientSampled :

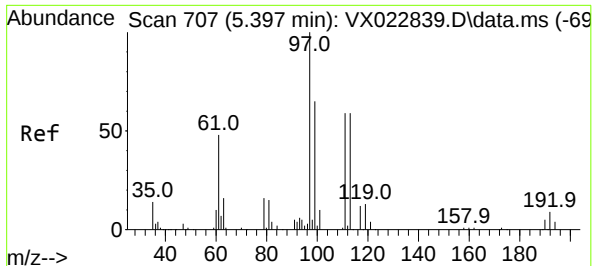
Tgt Ion: 65 Resp: 51575  
 Ion Ratio Lower Upper  
 65 100  
 67 53.2 0.0 105.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.769 min Scan# 932  
 Delta R.T. -0.000 min  
 Lab File: VX022919.D  
 Acq: 25 Jun 2021 13:41

Tgt Ion: 114 Resp: 108920  
 Ion Ratio Lower Upper  
 114 100  
 63 21.7 0.0 40.8  
 88 17.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 52.55 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX022919.D

Acq: 25 Jun 2021 13:41

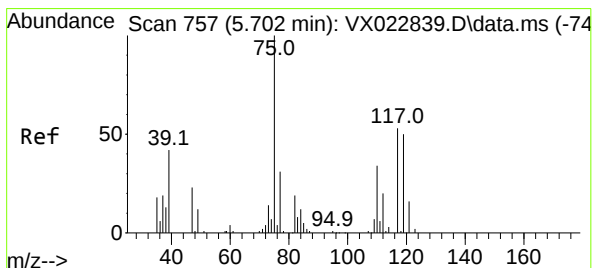
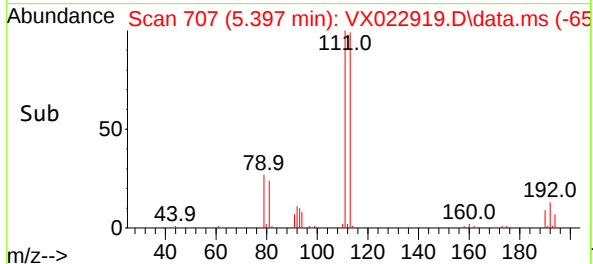
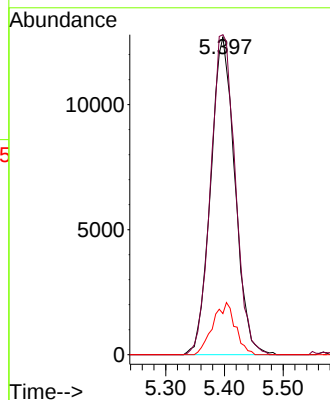
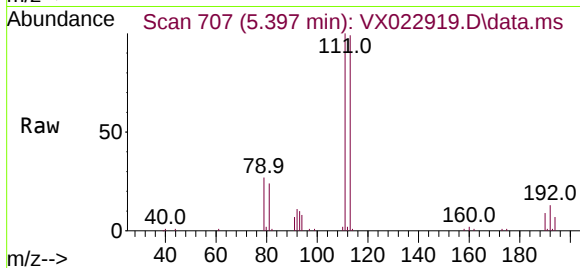
Tgt Ion:113 Resp: 36348

Ion Ratio Lower Upper

113 100

111 102.2 81.9 122.9

192 15.2 16.7 25.1#



#36

1,1-Dichloropropene

Concen: 4.61 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.140 min

Lab File: VX022919.D

Acq: 25 Jun 2021 13:41

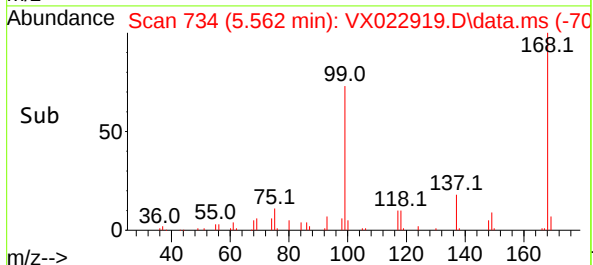
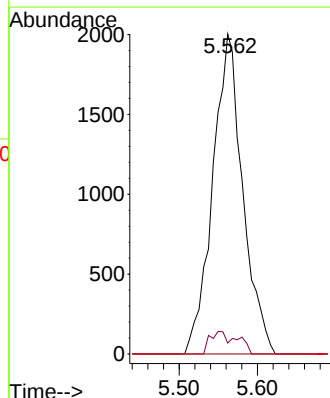
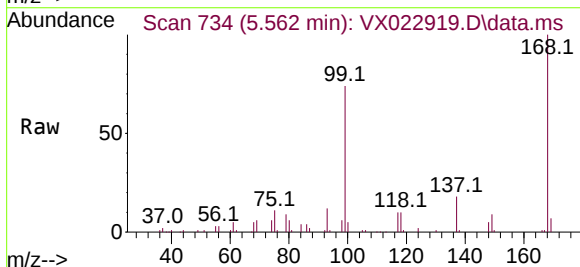
Tgt Ion: 75 Resp: 5332

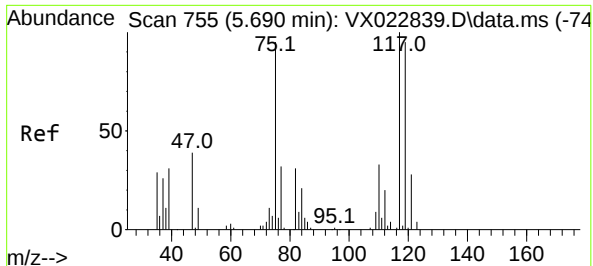
Ion Ratio Lower Upper

75 100

110 5.1 18.1 54.4#

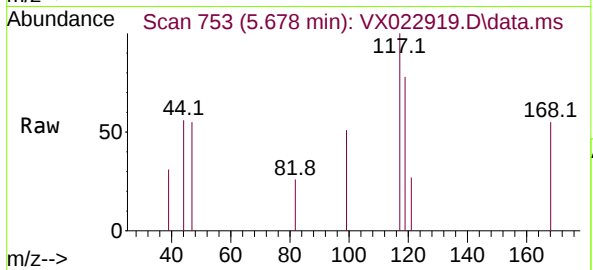
77 0.0 25.3 37.9#



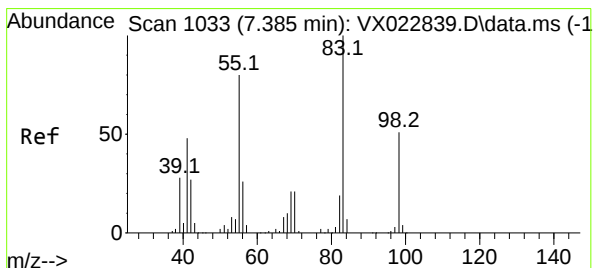
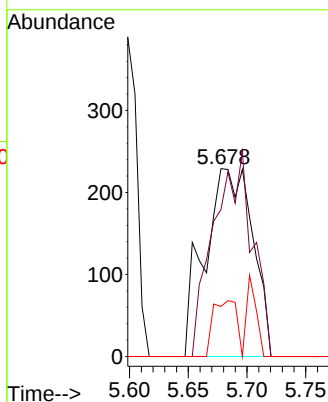
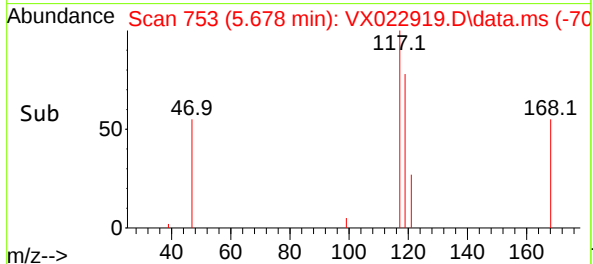


#38  
Carbon Tetrachloride  
Concen: 0.67 ug/l  
RT: 5.678 min Scan# 753  
Delta R.T. -0.012 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

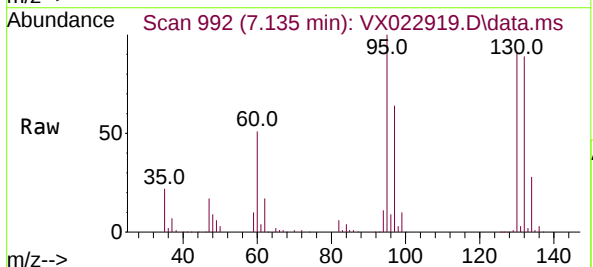
Instrument :  
MSVOA\_X  
ClientSampled :



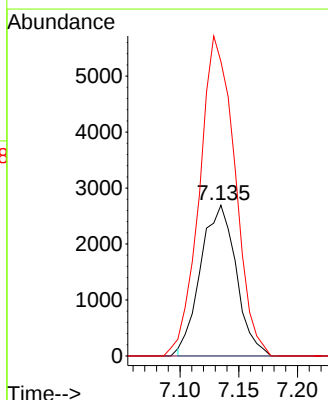
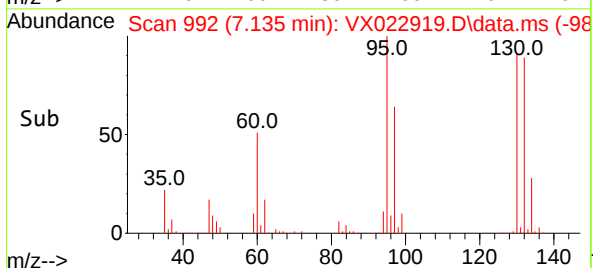
Tgt Ion:117 Resp: 652  
Ion Ratio Lower Upper  
117 100  
119 78.2 76.2 114.2  
121 26.6 24.8 37.2

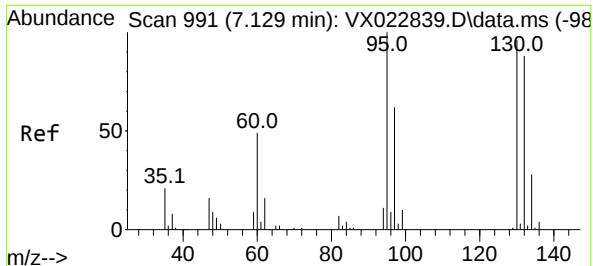


#39  
Methylcyclohexane  
Concen: 4.20 ug/l  
RT: 7.135 min Scan# 992  
Delta R.T. -0.250 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41



Tgt Ion: 83 Resp: 5666  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.9 88.3#  
98 195.4 38.1 57.1#





#44

Trichloroethene

Concen: 521.71 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.006 min

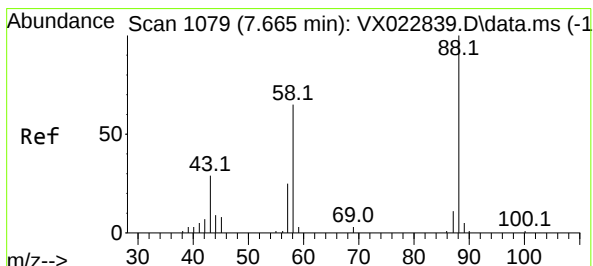
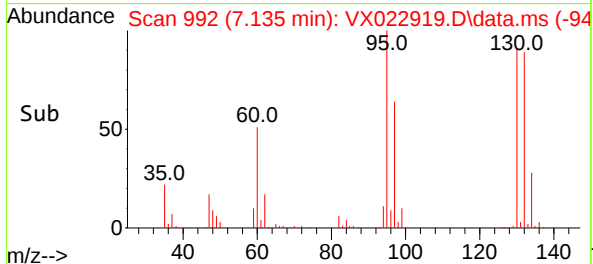
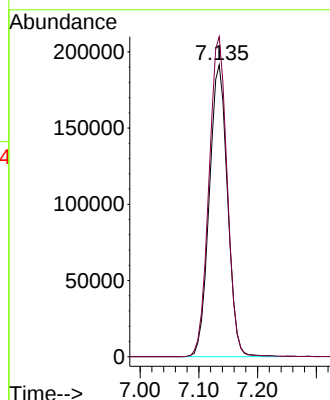
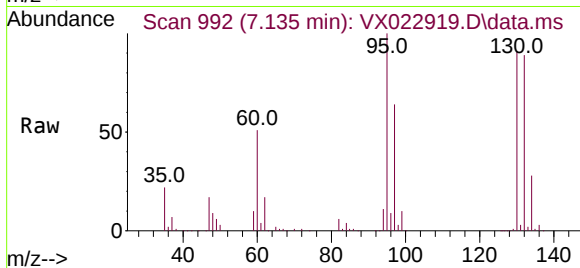
Lab File: VX022919.D

Acq: 25 Jun 2021 13:41

Tgt Ion:130 Resp: 412740

Ion Ratio Lower Upper

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 130 | 100   |       |       |
| 95  | 109.7 | 0.0   | 198.0 |



#49

1,4-Dioxane

Concen: 12.16 ug/l

RT: 7.683 min Scan# 1082

Delta R.T. 0.018 min

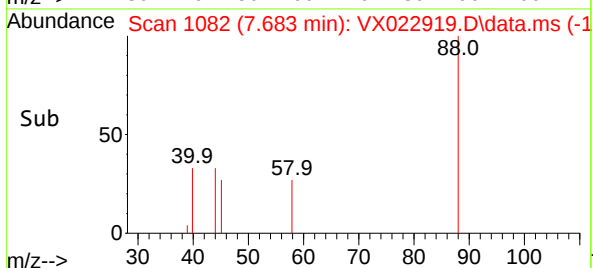
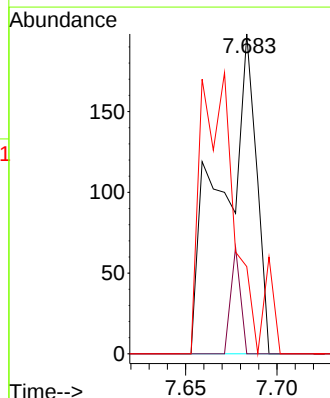
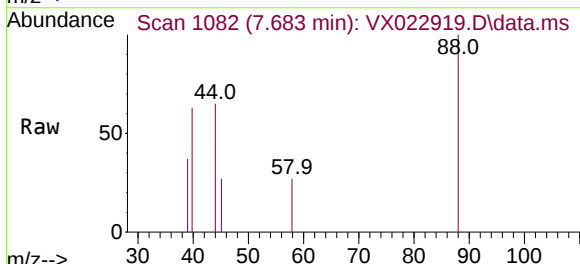
Lab File: VX022919.D

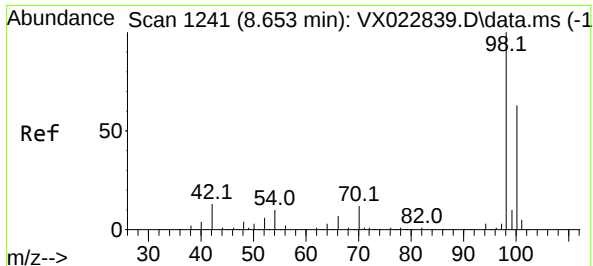
Acq: 25 Jun 2021 13:41

Tgt Ion: 88 Resp: 261

Ion Ratio Lower Upper

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 9.2   | 23.2  | 34.8# |
| 58  | 90.8  | 55.0  | 82.4# |

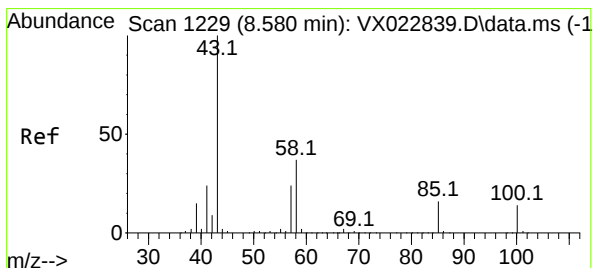
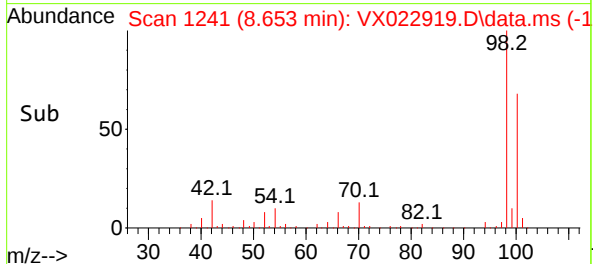
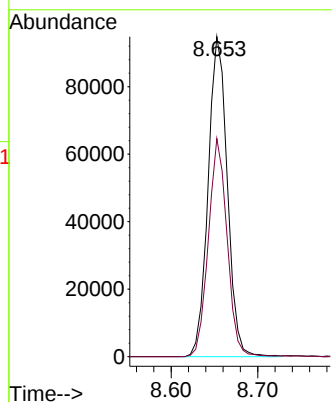
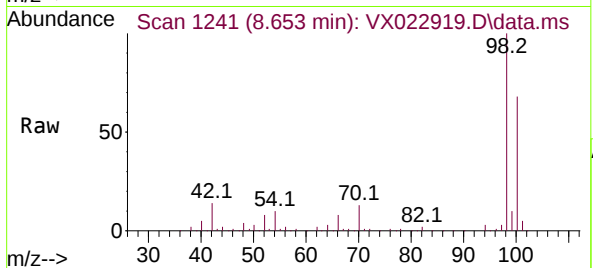




#50  
Toluene-d8  
Concen: 53.80 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

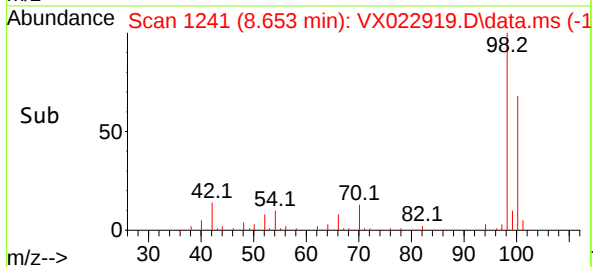
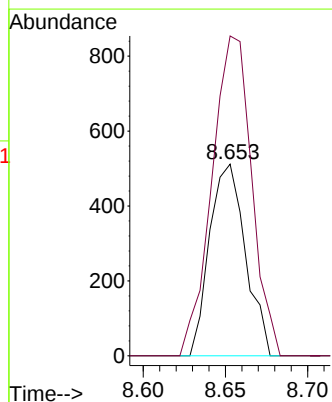
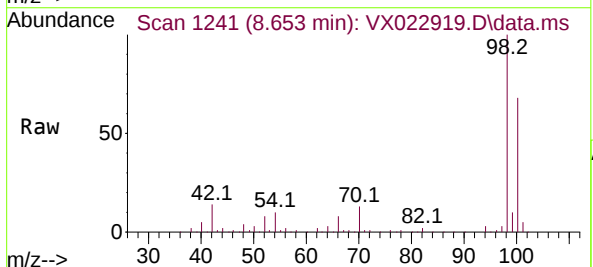
Instrument :  
MSVOA\_X  
ClientSampled :

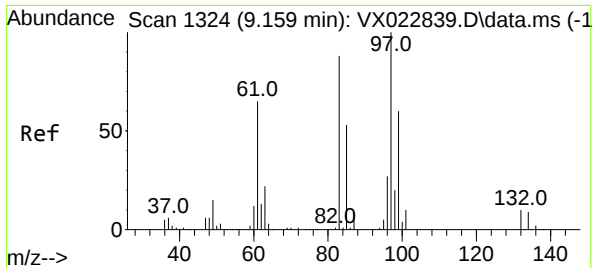
Tgt Ion: 98 Resp: 145852  
Ion Ratio Lower Upper  
98 100  
100 66.5 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 0.58 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.073 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

Tgt Ion: 43 Resp: 777  
Ion Ratio Lower Upper  
43 100  
58 185.1 35.4 53.0#

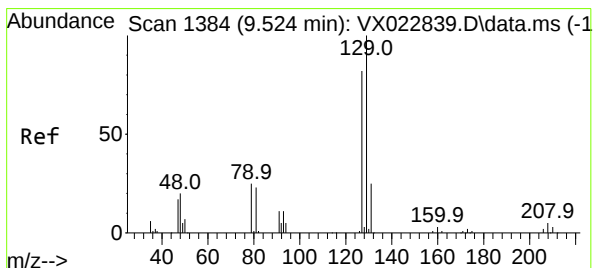
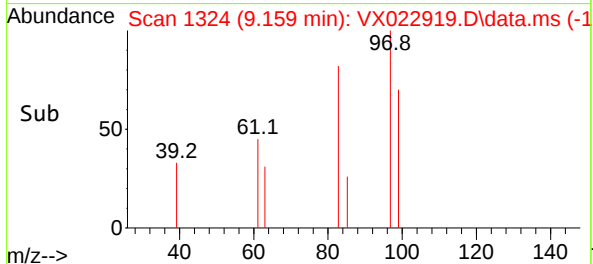
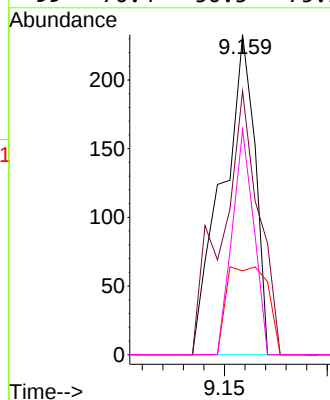
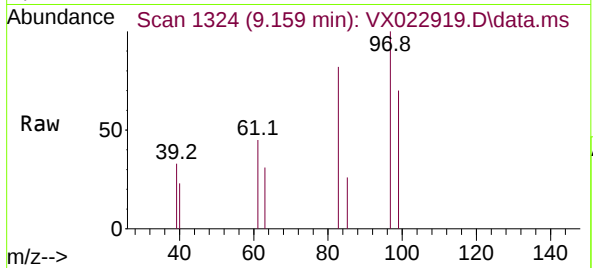




#55  
1,1,2-Trichloroethane  
Concen: 0.32 ug/l  
RT: 9.159 min Scan# 1324  
Delta R.T. -0.000 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

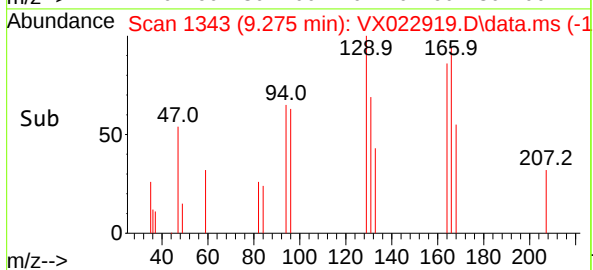
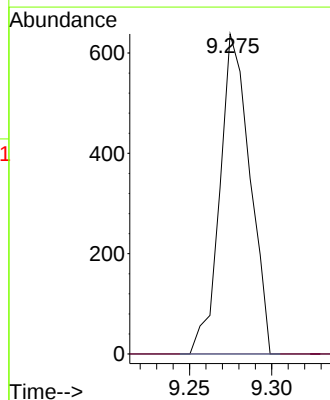
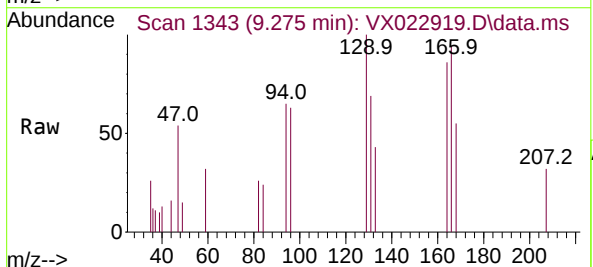
Instrument :  
MSVOA\_X  
ClientSampleId :

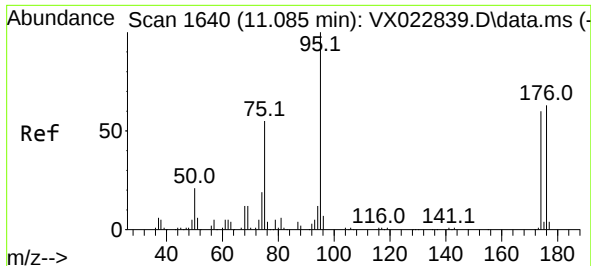
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion: 97 | Resp: | 258   |       |
| Ion         | Ratio | Lower | Upper |
| 97          | 100   |       |       |
| 83          | 82.4  | 69.3  | 103.9 |
| 85          | 26.2  | 44.3  | 66.5# |
| 99          | 70.4  | 50.3  | 75.5  |



#60  
Dibromochloromethane  
Concen: 4.60 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.249 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

|             |       |       |        |
|-------------|-------|-------|--------|
| Tgt Ion:129 | Resp: | 810   |        |
| Ion         | Ratio | Lower | Upper  |
| 129         | 100   |       |        |
| 127         | 0.0   | 38.4  | 115.2# |

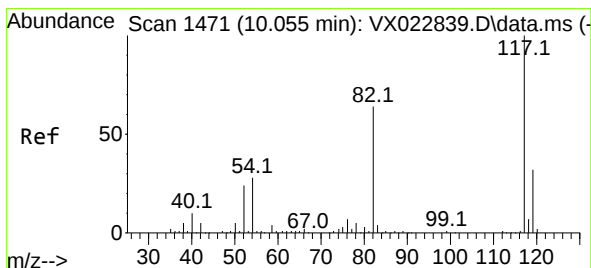
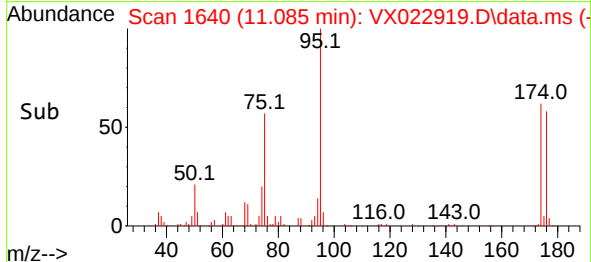
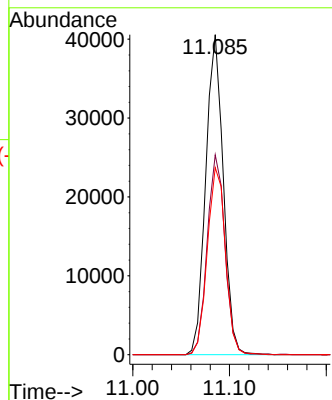
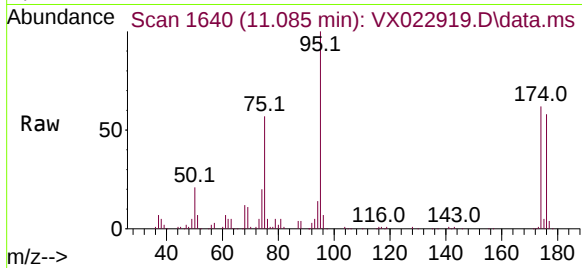




#62  
4-Bromofluorobenzene  
Concen: 50.57 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

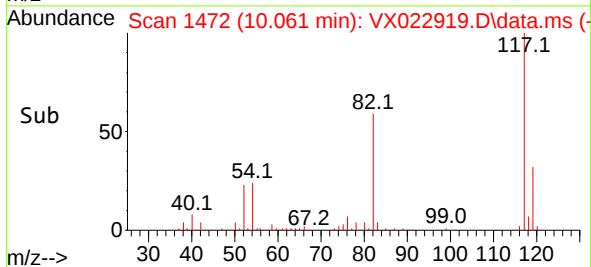
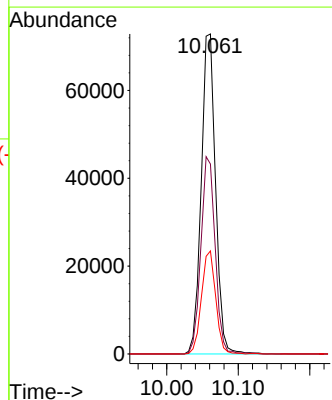
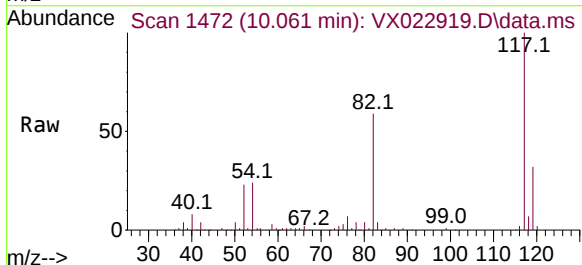
Instrument :  
MSVOA\_X  
ClientSampleId :

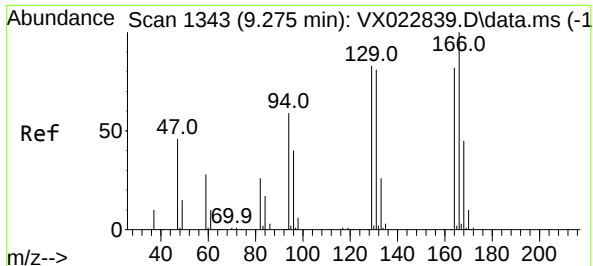
Tgt Ion: 95 Resp: 51163  
Ion Ratio Lower Upper  
95 100  
174 63.0 0.0 154.6  
176 60.4 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. 0.006 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

Tgt Ion: 117 Resp: 101387  
Ion Ratio Lower Upper  
117 100  
82 59.4 47.4 71.2  
119 32.2 26.6 39.8



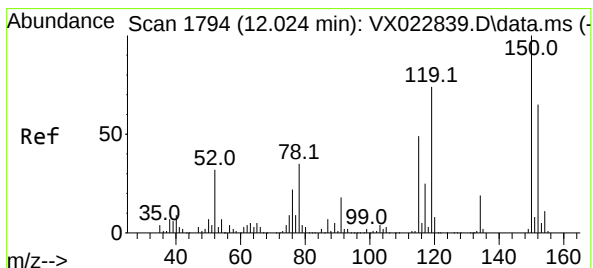
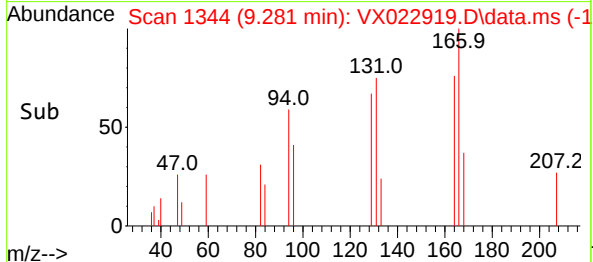
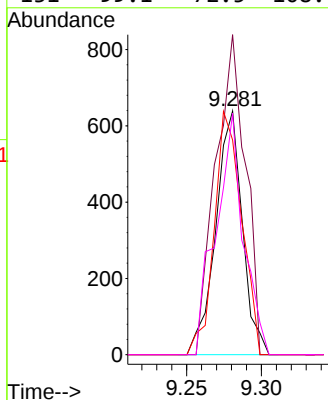
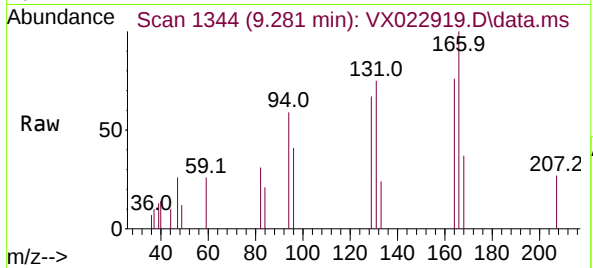


#64  
Tetrachloroethene  
Concen: 1.11 ug/l  
RT: 9.281 min Scan# 1344  
Delta R.T. 0.006 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion:164 Resp: 793

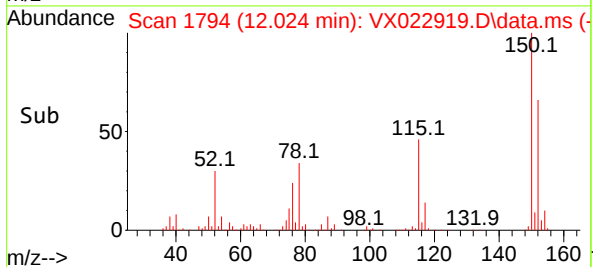
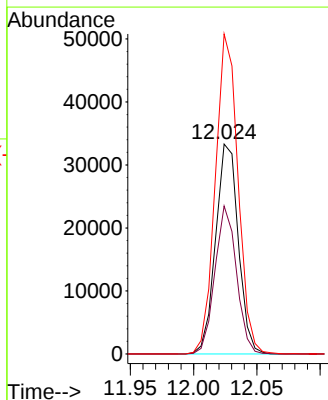
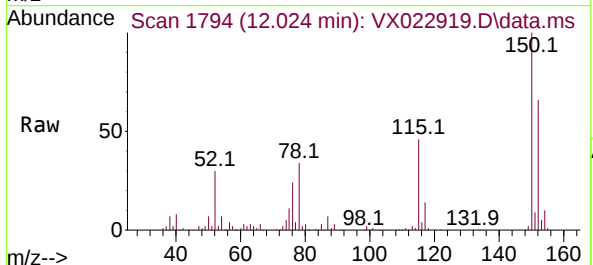
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 131.3 | 103.4 | 155.2 |
| 129 | 88.1  | 70.8  | 106.2 |
| 131 | 99.1  | 72.5  | 108.7 |

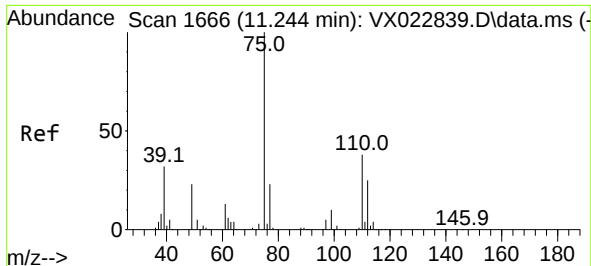


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

Tgt Ion:152 Resp: 41508

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 67.0  | 41.1  | 123.3 |
| 150 | 152.1 | 0.0   | 349.0 |

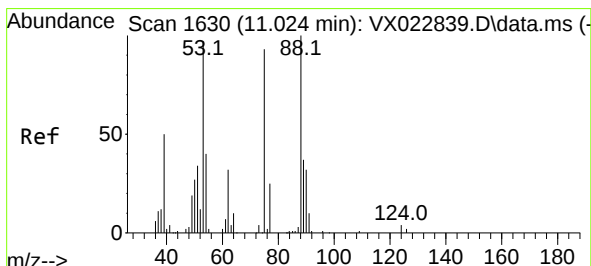
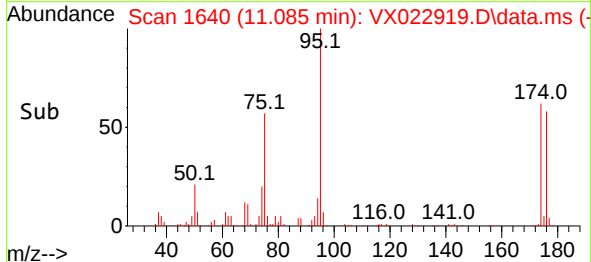
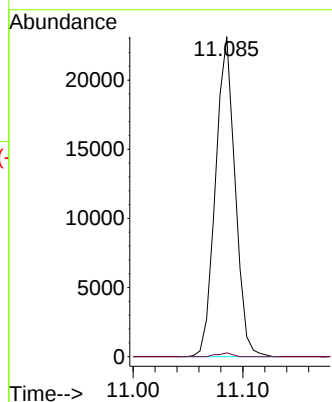
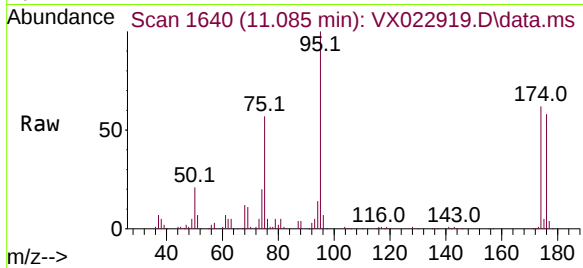




#76  
1,2,3-Trichloropropane  
Concen: 26.27 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

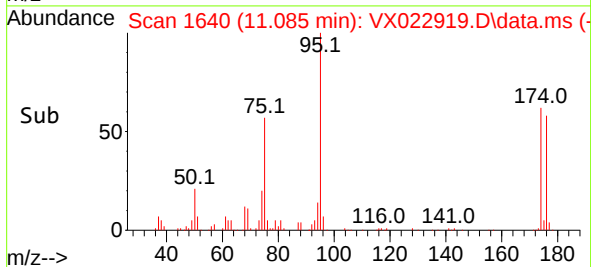
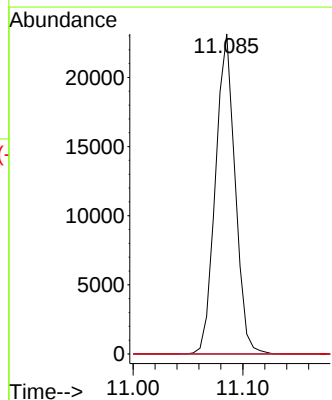
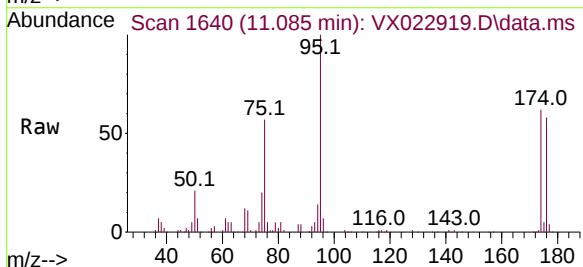
Instrument :  
MSVOA\_X  
ClientSampled :

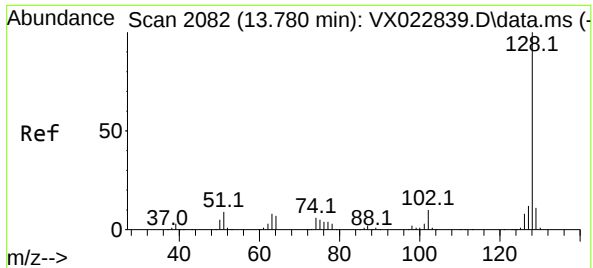
Tgt Ion: 75 Resp: 28798  
Ion Ratio Lower Upper  
75 100  
77 0.9 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 68.22 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

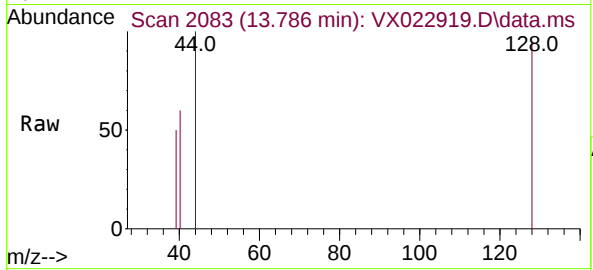
Tgt Ion: 75 Resp: 28798  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#





#95  
Naphthalene  
Concen: 1.97 ug/l  
RT: 13.786 min Scan# 2083  
Delta R.T. 0.006 min  
Lab File: VX022919.D  
Acq: 25 Jun 2021 13:41

Instrument :  
MSVOA\_X  
ClientSampleId :



|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:128 | Resp: | 184         |
| Ion         | Ratio | Lower Upper |
| 128         | 100   |             |
| 127         | 0.0   | 10.3 15.5#  |
| 129         | 0.0   | 8.8 13.2#   |

