

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122320\  
 Data File : VX020350.D  
 Acq On : 23 Dec 2020 19:48  
 Operator : JC/MD  
 Sample : L5124-19DL 20X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP05-20201211DL

Quant Time: Dec 24 00:21:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121820W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 18 13:09:49 2020  
 Response via : Initial Calibration

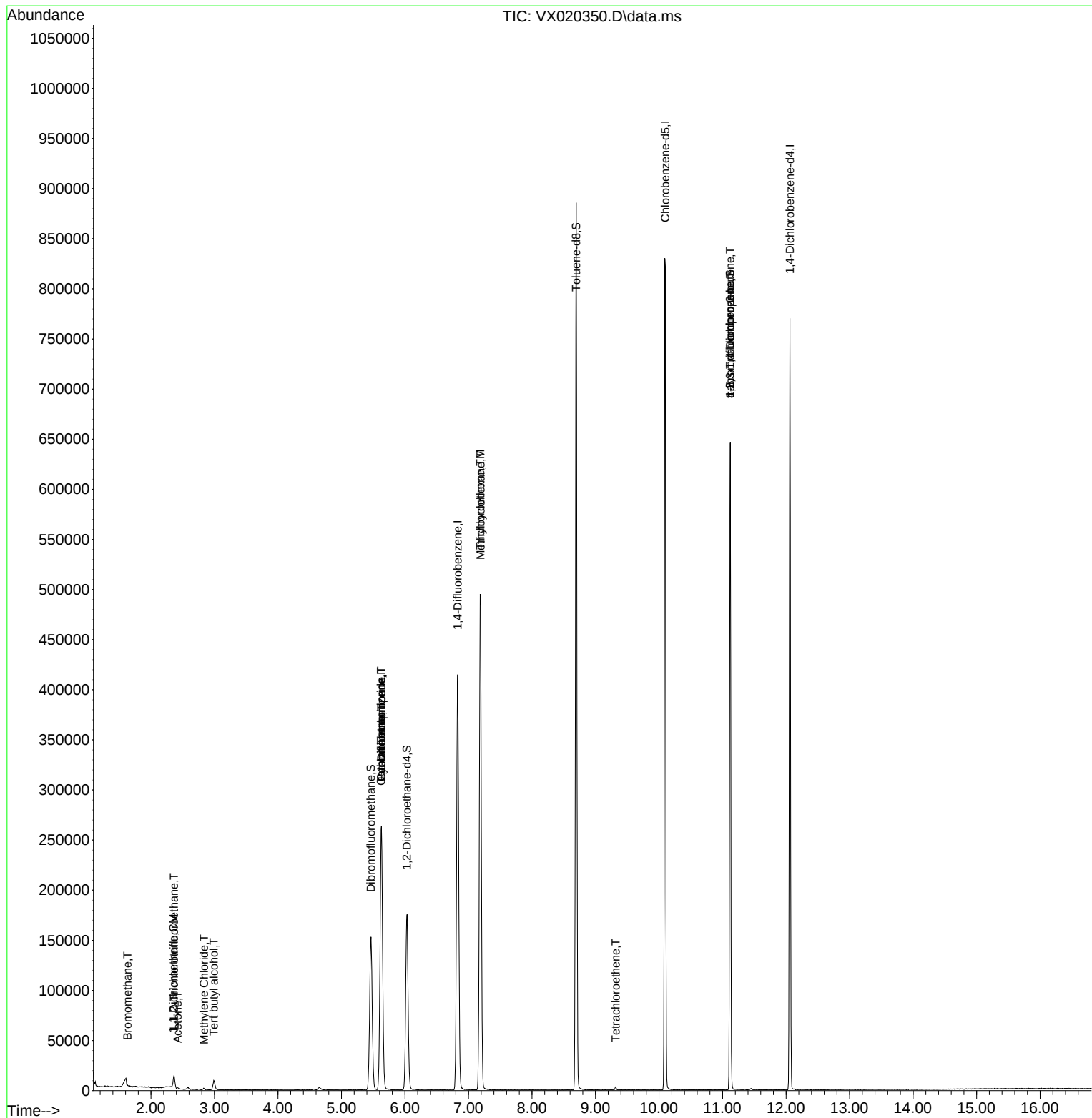
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.629  | 168   | 248388   | 50.00    | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene       | 6.830  | 114   | 419101   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.098 | 117   | 395785   | 50.00    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.061 | 152   | 154008   | 50.00    | ug/l   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.031  | 65    | 167237   | 50.23    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery | =      | 100.46%  |
| 35) Dibromofluoromethane      | 5.464  | 113   | 133730   | 49.88    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery | =      | 99.76%   |
| 50) Toluene-d8                | 8.695  | 98    | 509480   | 49.37    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery | =      | 98.74%   |
| 62) 4-Bromofluorobenzene      | 11.122 | 95    | 178511   | 45.20    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery | =      | 90.40%   |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 5) Bromomethane               | 1.630  | 94    | 258      | 0.24     | ug/l   | 95       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.361  | 101   | 3610     | 1.46     | ug/l   | 100      |
| 11) Tert butyl alcohol        | 2.989  | 59    | 5332     | 7.15     | ug/l # | 73       |
| 12) 1,1-Dichloroethene        | 2.355  | 96    | 1024     | 0.40     | ug/l # | 89       |
| 16) Acetone                   | 2.416  | 43    | 920      | 0.61     | ug/l # | 82       |
| 20) Methylene Chloride        | 2.837  | 84    | 743      | 0.22     | ug/l # | 81       |
| 31) Cyclohexane               | 5.629  | 56    | 4991     | 1.09     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.629  | 75    | 19291    | 4.66     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.623  | 117   | 24872    | 6.31     | ug/l # | 17       |
| 39) Methylcyclohexane         | 7.190  | 83    | 2325     | 0.49     | ug/l # | 1        |
| 44) Trichloroethene           | 7.184  | 130   | 193559   | 58.08    | ug/l   | 98       |
| 64) Tetrachloroethene         | 9.317  | 164   | 604      | 0.20     | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 11.122 | 75    | 86570    | 22.82    | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.122 | 75    | 86570    | 67.70    | ug/l # | 12       |
| -----                         |        |       |          |          |        |          |

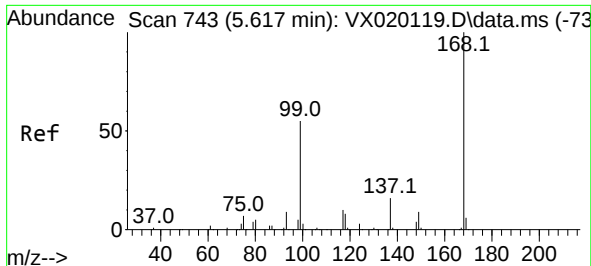
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122320\  
Data File : VX020350.D  
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Sample : L5124-19DL 20X  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20201211DL

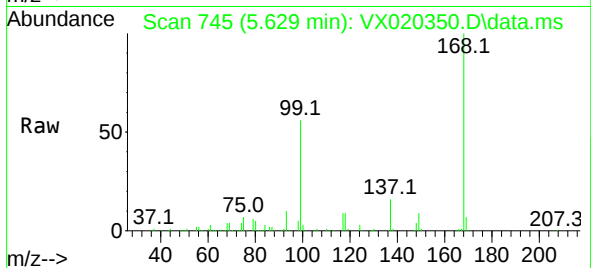
Quant Time: Dec 24 00:21:35 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121820W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 18 13:09:49 2020  
Response via : Initial Calibration



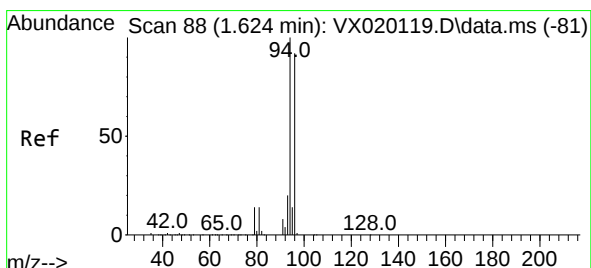
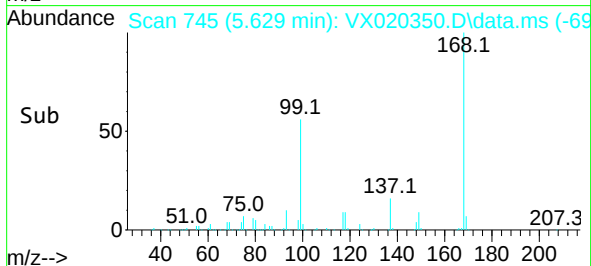
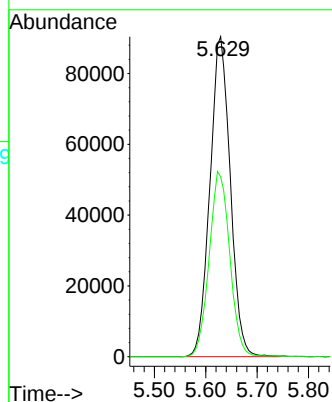


#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.012 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20201211DL

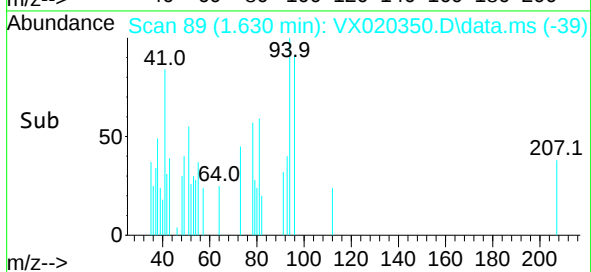
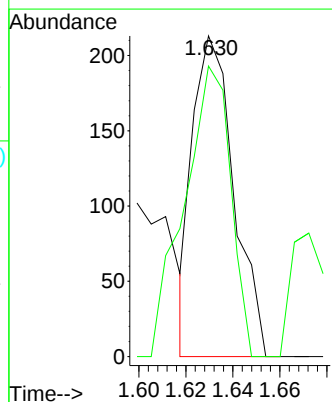
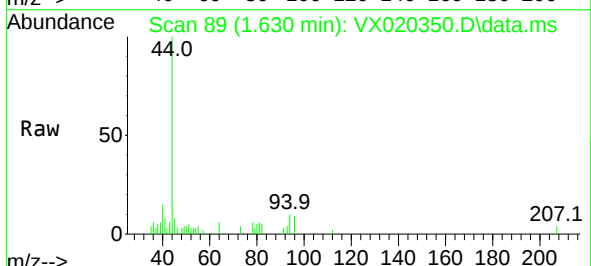


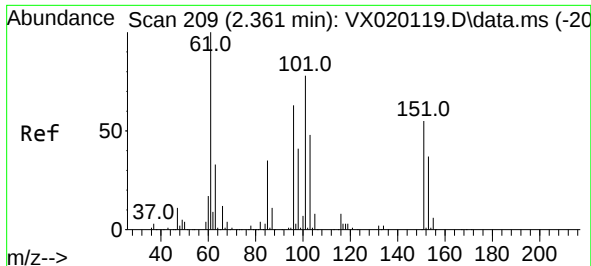
Tgt Ion:168 Resp: 248388  
Ion Ratio Lower Upper  
168 100  
99 56.2 45.8 68.6



#5  
Bromomethane  
Concen: 0.24 ug/l  
RT: 1.630 min Scan# 89  
Delta R.T. 0.006 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Tgt Ion: 94 Resp: 258  
Ion Ratio Lower Upper  
94 100  
96 90.6 76.4 114.6

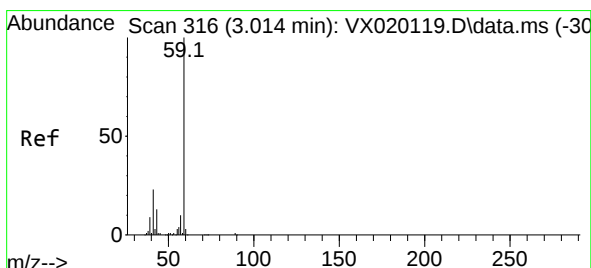
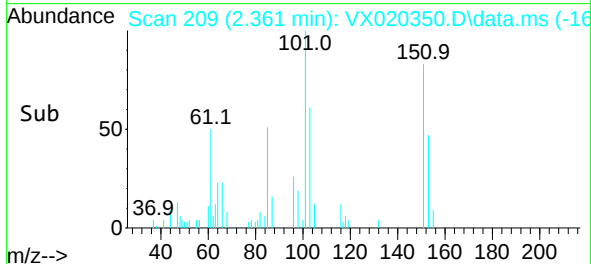
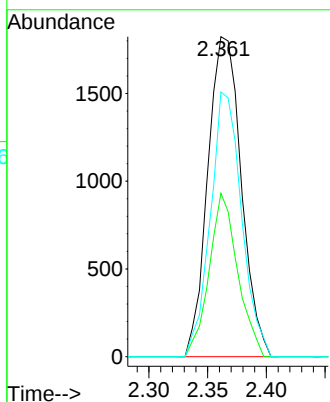
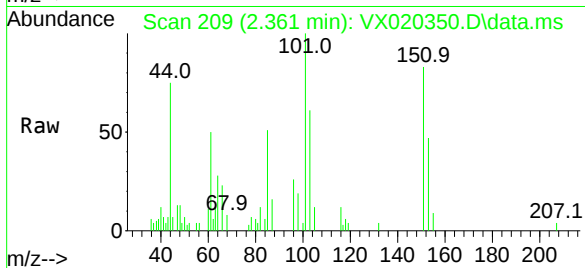




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 1.46 ug/l  
RT: 2.361 min Scan# 209  
Delta R.T. 0.000 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

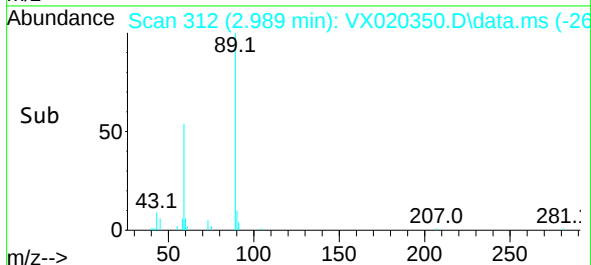
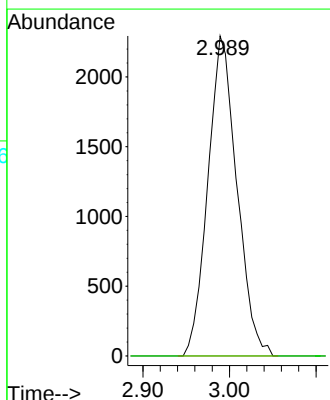
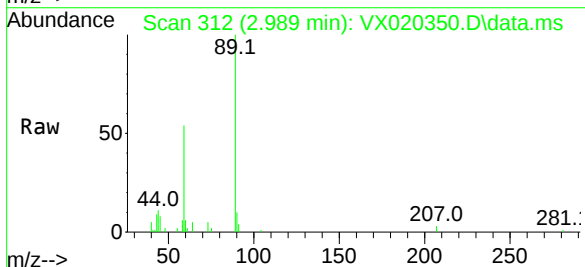
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20201211DL

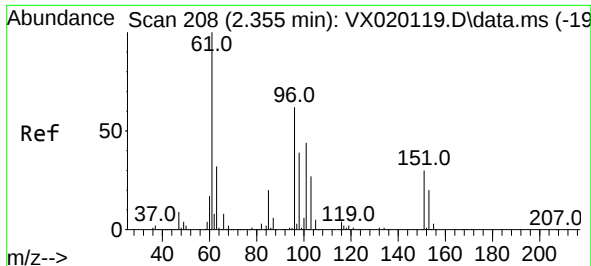
Tgt Ion:101 Resp: 3610  
Ion Ratio Lower Upper  
101 100  
85 43.5 34.9 52.3  
151 77.3 61.4 92.2



#11  
Tert butyl alcohol  
Concen: 7.15 ug/l  
RT: 2.989 min Scan# 312  
Delta R.T. -0.025 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Tgt Ion: 59 Resp: 5332  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#





#12

1,1-Dichloroethene

Concen: 0.40 ug/l

RT: 2.355 min Scan# 208

Delta R.T. 0.000 min

Lab File: VX020350.D

Acq: 23 Dec 2020 19:48

Tgt Ion: 96 Resp: 1024

Ion Ratio Lower Upper

96 100

61 145.0 124.6 187.0

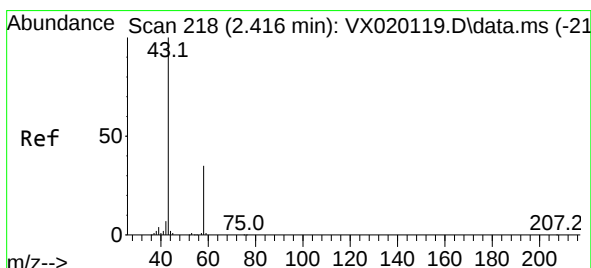
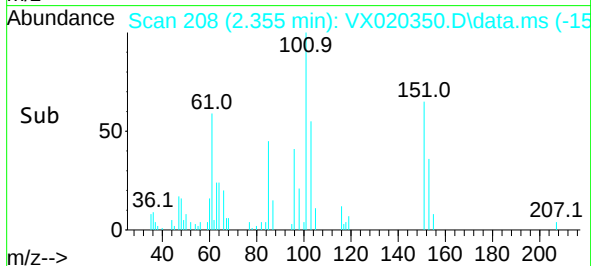
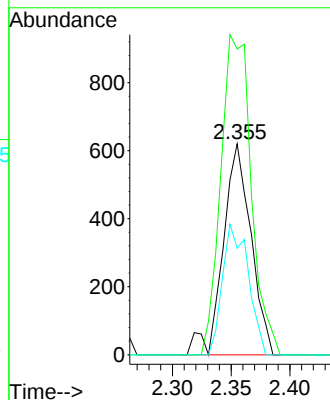
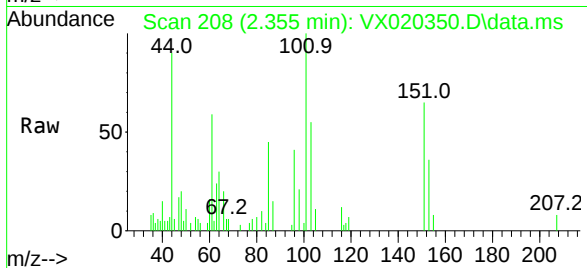
98 50.5 50.6 76.0#

Instrument :

MSVOA\_X

ClientSampleId :

DUP05-20201211DL



#16

Acetone

Concen: 0.61 ug/l

RT: 2.416 min Scan# 218

Delta R.T. 0.000 min

Lab File: VX020350.D

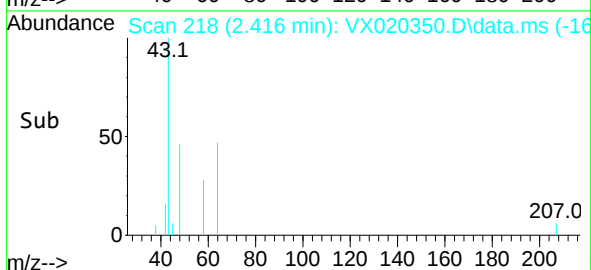
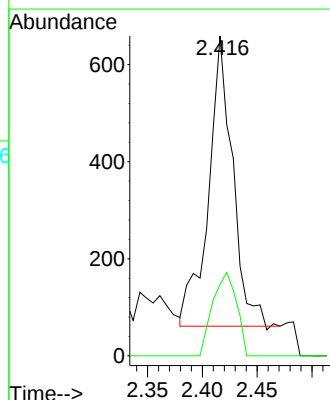
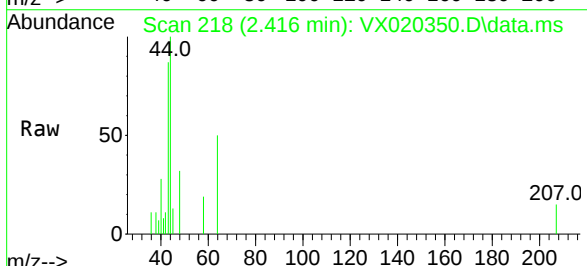
Acq: 23 Dec 2020 19:48

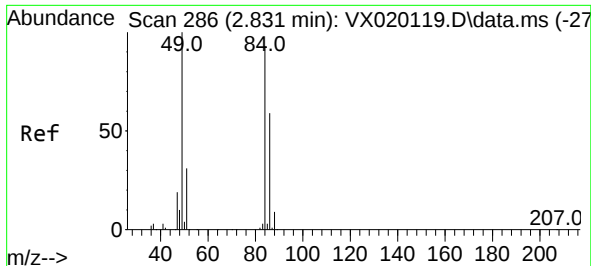
Tgt Ion: 43 Resp: 920

Ion Ratio Lower Upper

43 100

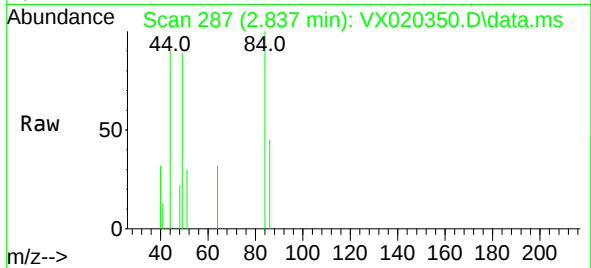
58 24.6 27.8 41.8#



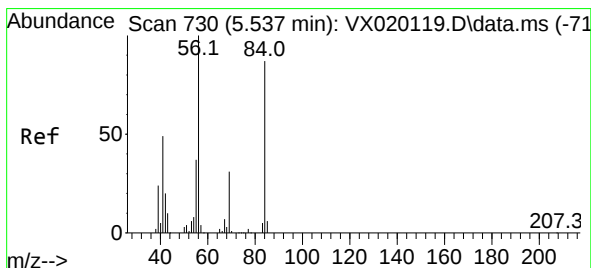
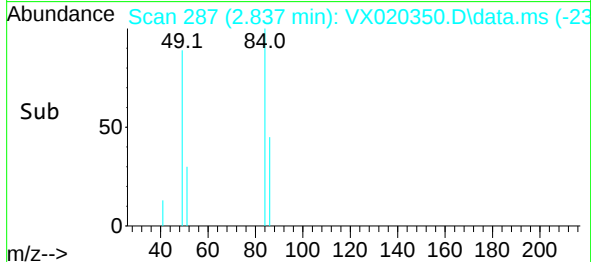
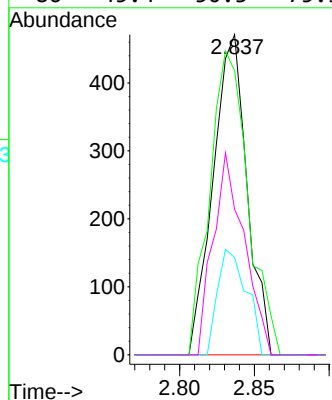


#20  
Methylene Chloride  
Concen: 0.22 ug/l  
RT: 2.837 min Scan# 287  
Delta R.T. 0.006 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20201211DL

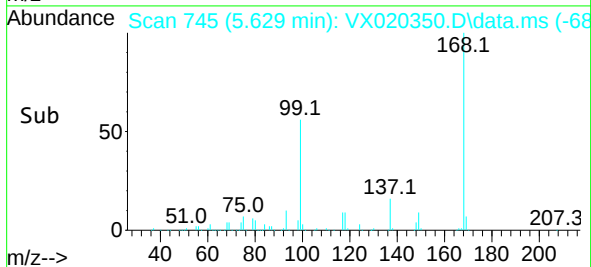
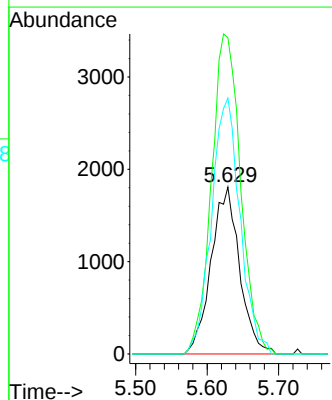
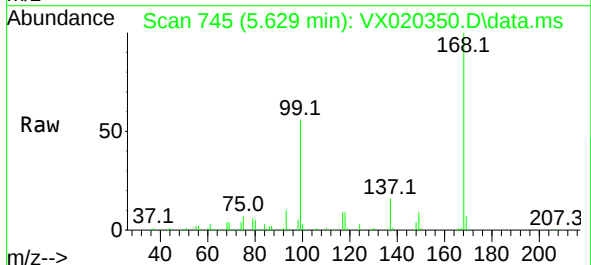


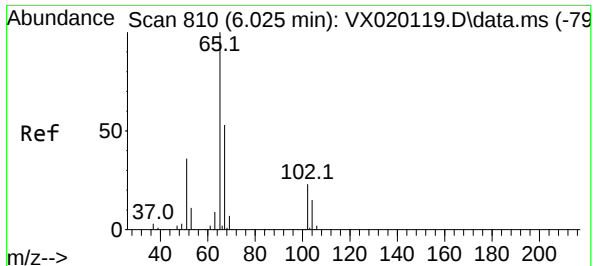
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 743   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 88.7  | 88.6  | 132.8 |
| 51       | 30.4  | 27.0  | 40.6  |
| 86       | 45.4  | 50.3  | 75.5# |



#31  
Cyclohexane  
Concen: 1.09 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.092 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 4991   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 189.6 | 25.3  | 37.9#  |
| 84       | 153.3 | 71.4  | 107.0# |

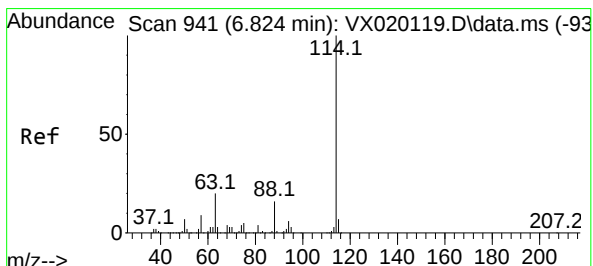
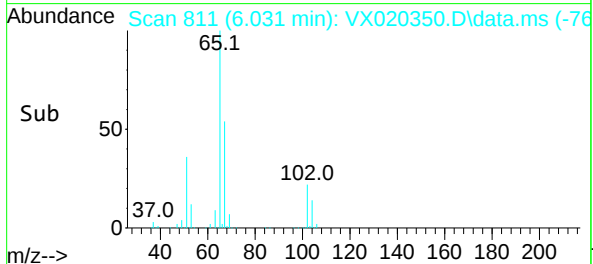
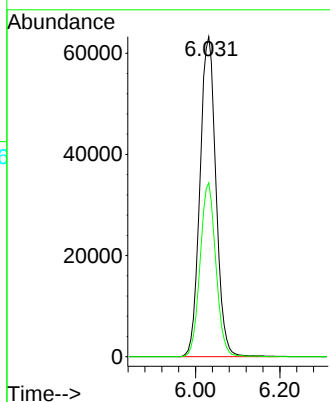
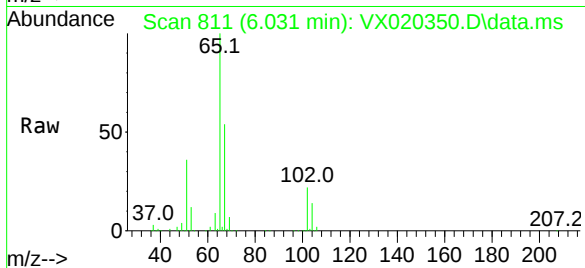




#33  
1,2-Dichloroethane-d4  
Concen: 50.23 ug/l  
RT: 6.031 min Scan# 811  
Delta R.T. 0.006 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

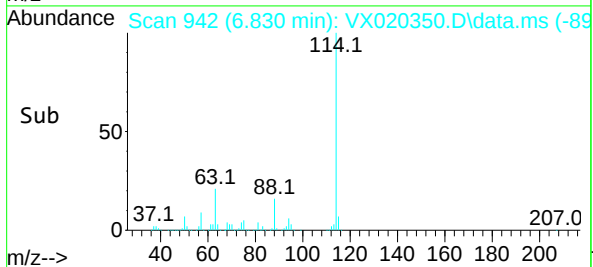
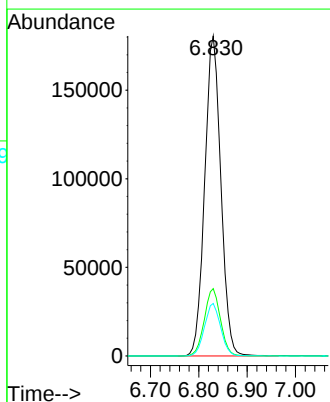
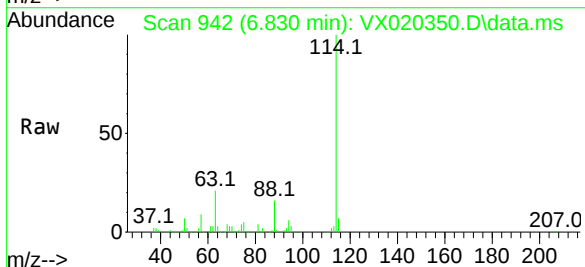
Instrument :  
MSVOA\_X  
ClientSampleId :  
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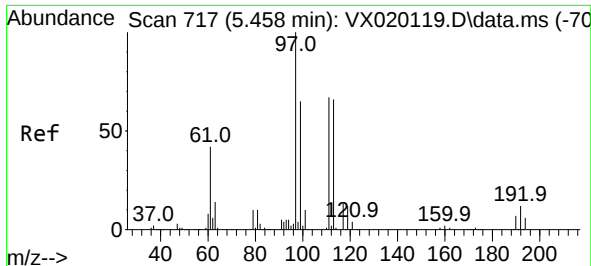
Tgt Ion: 65 Resp: 167237  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 105.4



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.830 min Scan# 942  
Delta R.T. 0.006 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

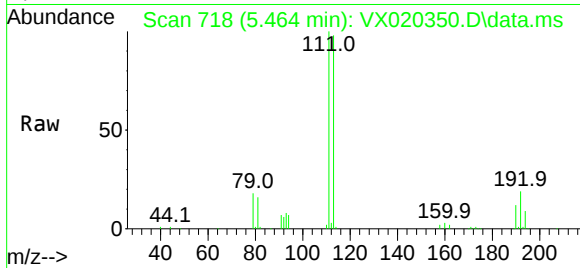
Tgt Ion: 114 Resp: 419101  
Ion Ratio Lower Upper  
114 100  
63 21.0 0.0 40.8  
88 16.4 0.0 32.8



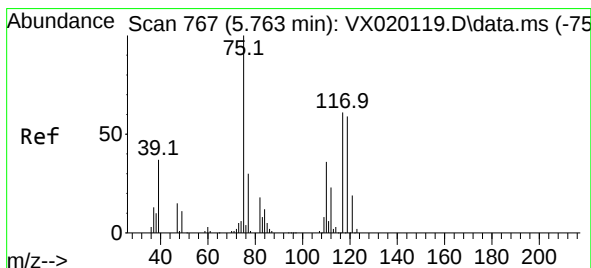
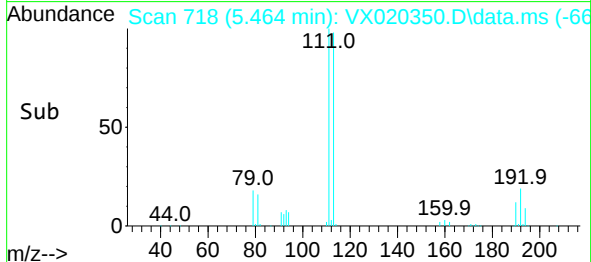
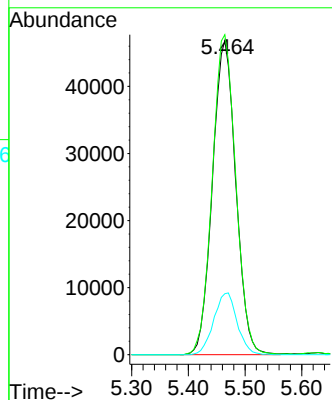


#35  
Dibromofluoromethane  
Concen: 49.88 ug/l  
RT: 5.464 min Scan# 718  
Delta R.T. 0.006 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20201211DL

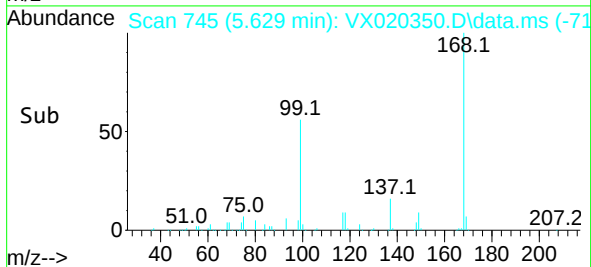
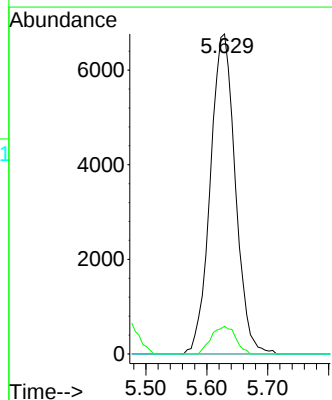
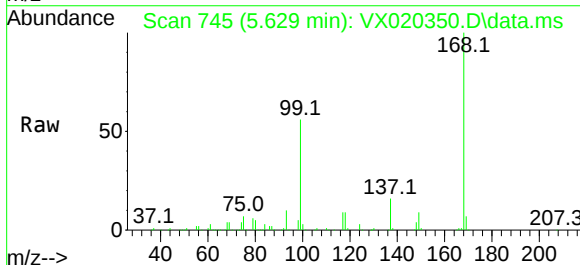


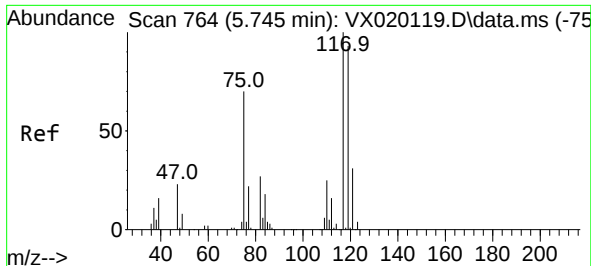
Tgt Ion:113 Resp: 133730  
Ion Ratio Lower Upper  
113 100  
111 102.5 81.9 122.9  
192 19.7 16.7 25.1



#36  
1,1-Dichloropropene  
Concen: 4.66 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.134 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

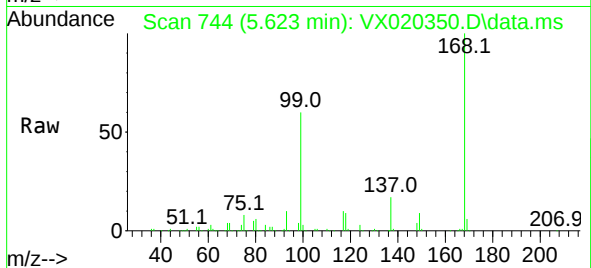
Tgt Ion: 75 Resp: 19291  
Ion Ratio Lower Upper  
75 100  
110 8.4 18.1 54.4#  
77 0.0 25.3 37.9#



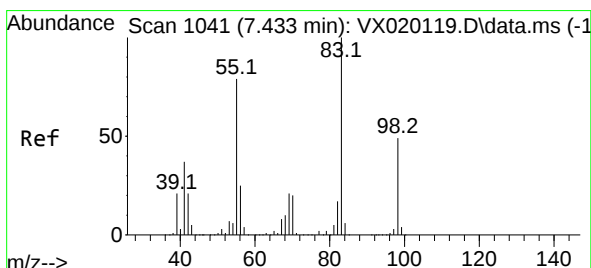
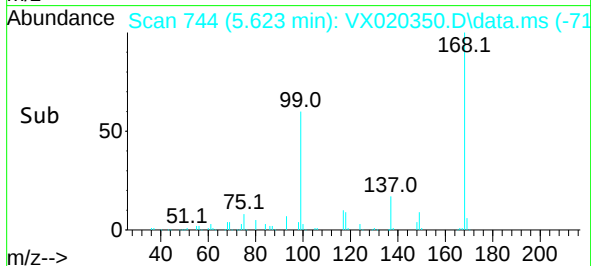
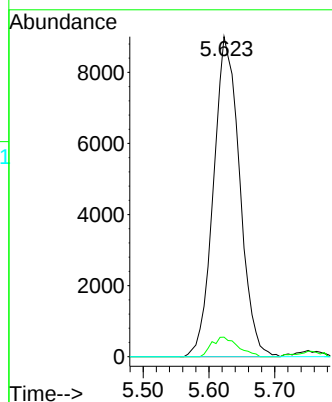


#38  
Carbon Tetrachloride  
Concen: 6.31 ug/l  
RT: 5.623 min Scan# 744  
Delta R.T. -0.122 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20201211DL

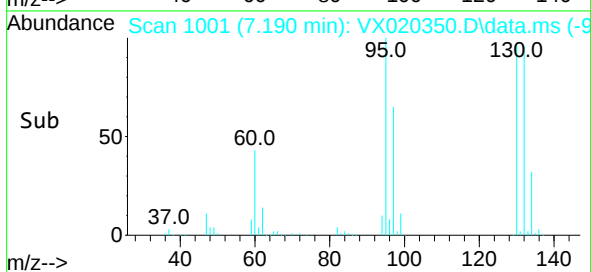
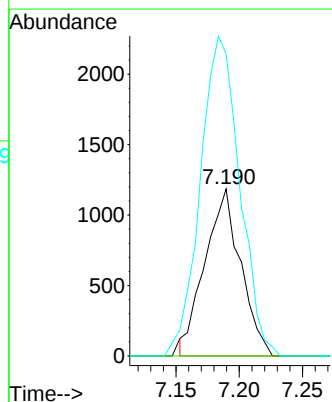
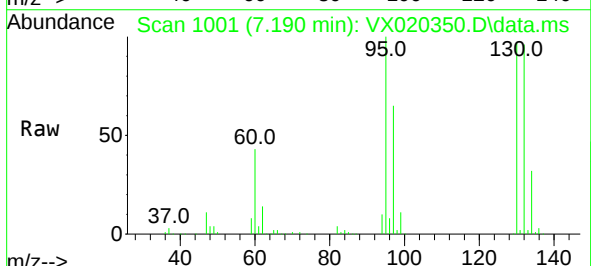


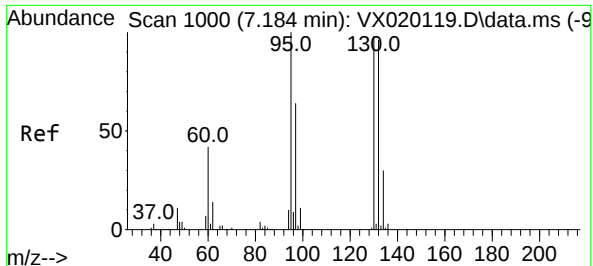
Tgt Ion:117 Resp: 24872  
Ion Ratio Lower Upper  
117 100  
119 6.1 76.2 114.2#  
121 0.0 24.8 37.2#



#39  
Methylcyclohexane  
Concen: 0.49 ug/l  
RT: 7.190 min Scan# 1001  
Delta R.T. -0.243 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Tgt Ion: 83 Resp: 2325  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.9 88.3#  
98 180.8 38.1 57.1#

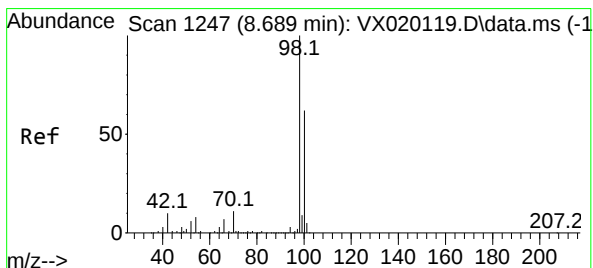
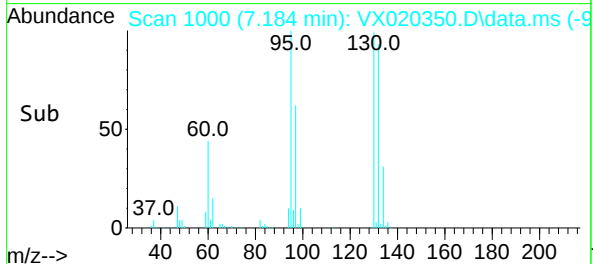
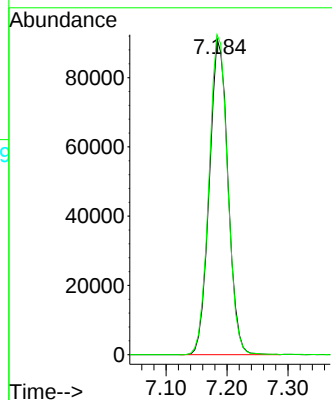
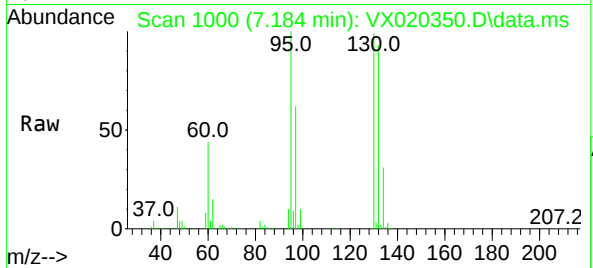




#44  
Trichloroethene  
Concen: 58.08 ug/l  
RT: 7.184 min Scan# 1000  
Delta R.T. -0.000 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

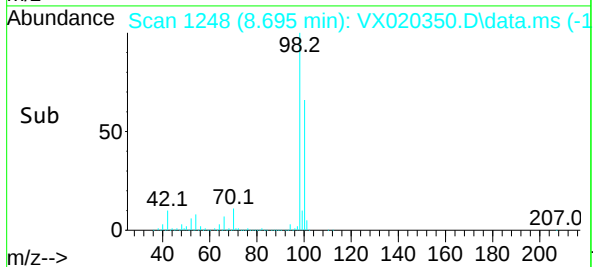
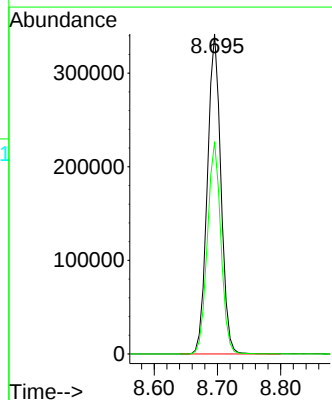
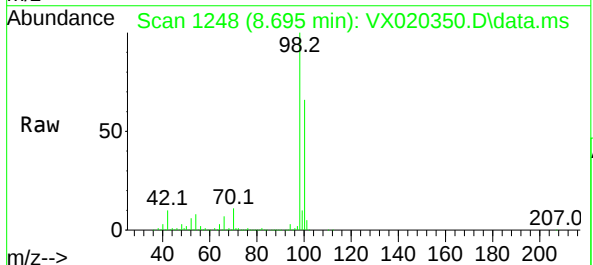
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20201211DL

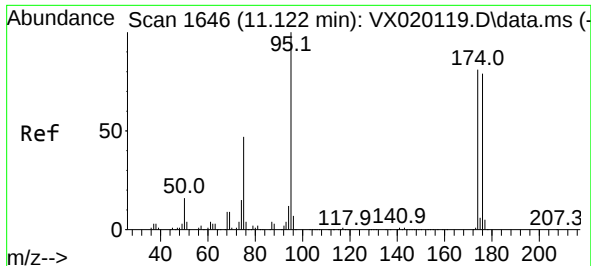
Tgt Ion:130 Resp: 193559  
Ion Ratio Lower Upper  
130 100  
95 101.3 0.0 198.0



#50  
Toluene-d8  
Concen: 49.37 ug/l  
RT: 8.695 min Scan# 1248  
Delta R.T. 0.006 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Tgt Ion: 98 Resp: 509480  
Ion Ratio Lower Upper  
98 100  
100 66.0 51.9 77.9

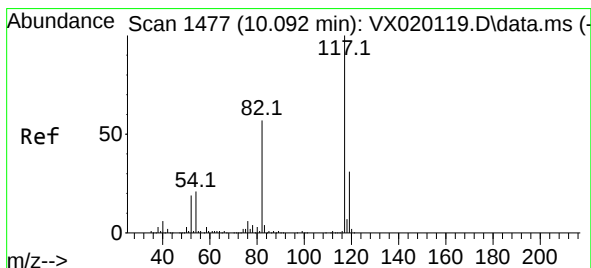
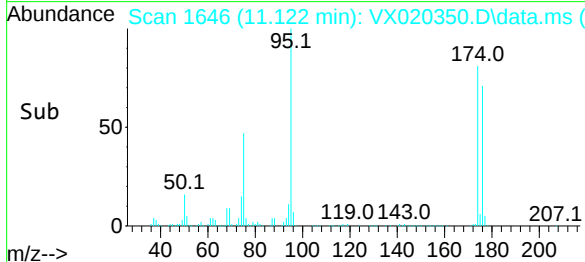
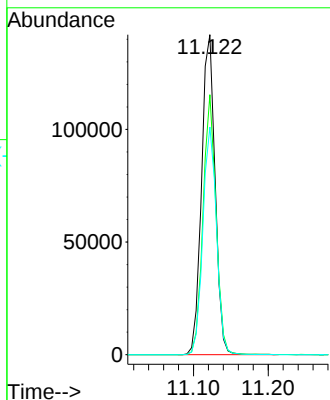
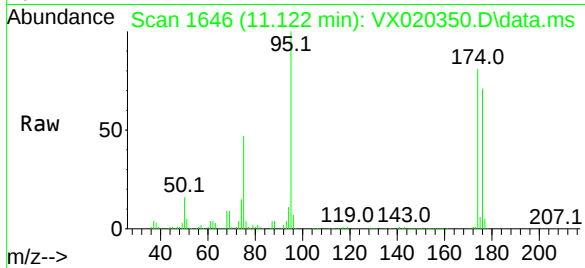




#62  
4-Bromofluorobenzene  
Concen: 45.20 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. -0.000 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

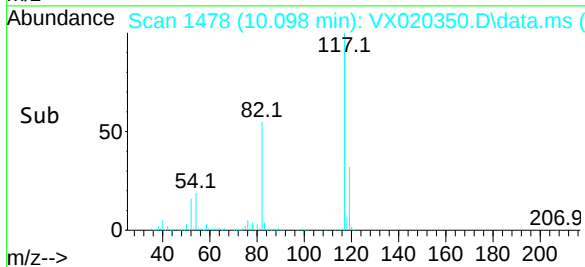
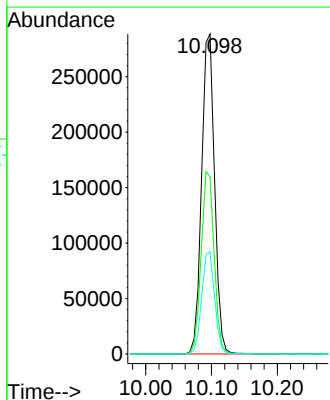
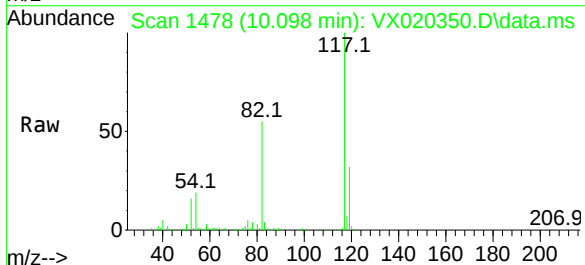
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20201211DL

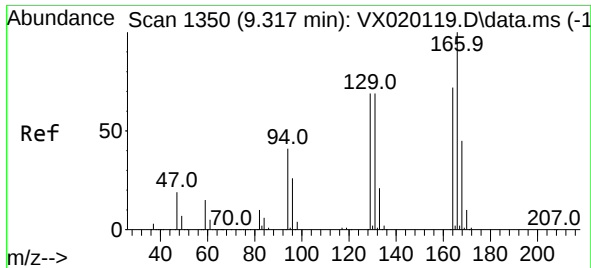
Tgt Ion: 95 Resp: 178511  
Ion Ratio Lower Upper  
95 100  
174 78.0 0.0 154.6  
176 71.5 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.098 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Tgt Ion: 117 Resp: 395785  
Ion Ratio Lower Upper  
117 100  
82 55.4 47.4 71.2  
119 32.0 26.6 39.8



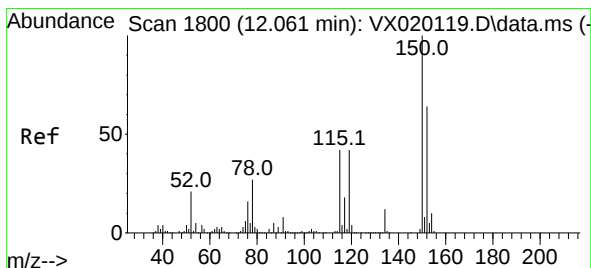
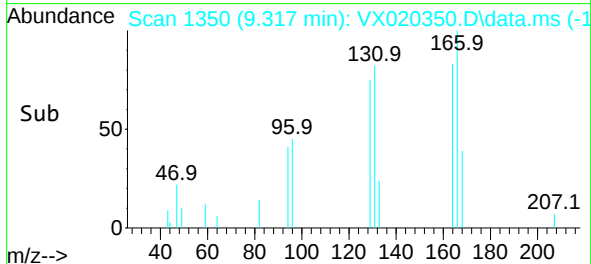
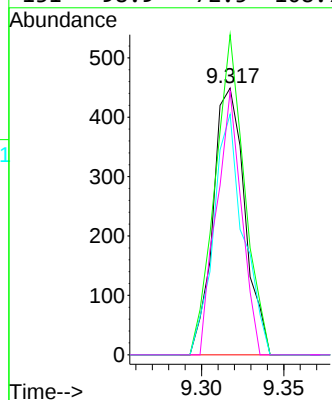
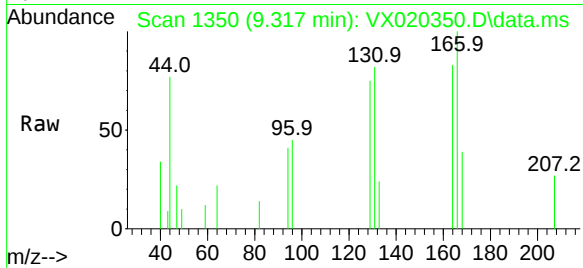


#64  
Tetrachloroethene  
Concen: 0.20 ug/l  
RT: 9.317 min Scan# 1350  
Delta R.T. 0.000 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20201211DL

Tgt Ion:164 Resp: 604

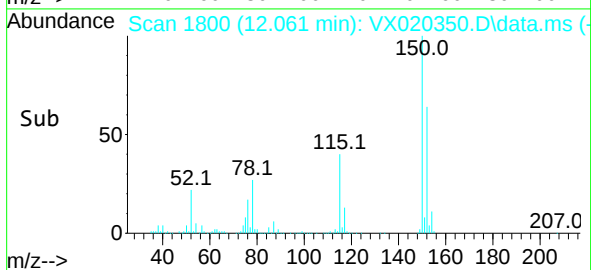
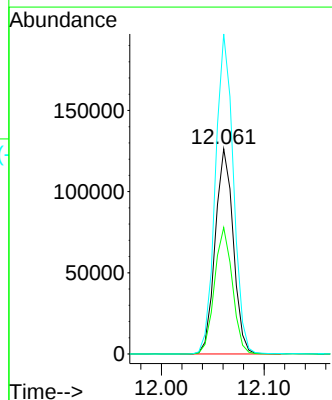
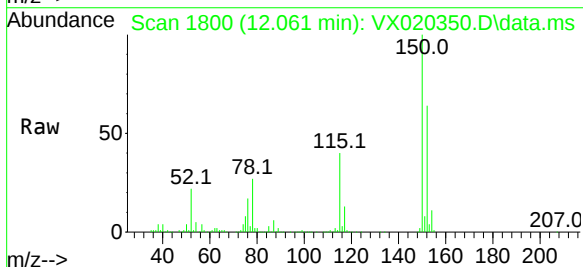
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 120.0 | 103.4 | 155.2 |
| 129 | 90.2  | 70.8  | 106.2 |
| 131 | 98.9  | 72.5  | 108.7 |

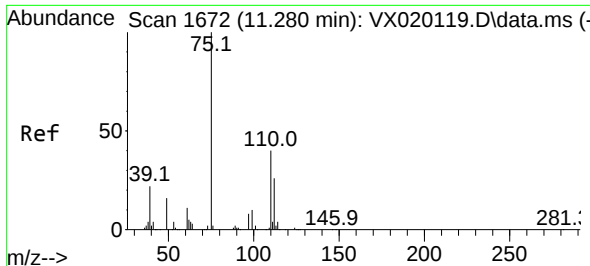


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.061 min Scan# 1800  
Delta R.T. -0.000 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Tgt Ion:152 Resp: 154008

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 61.2  | 41.1  | 123.3 |
| 150 | 155.6 | 0.0   | 349.0 |

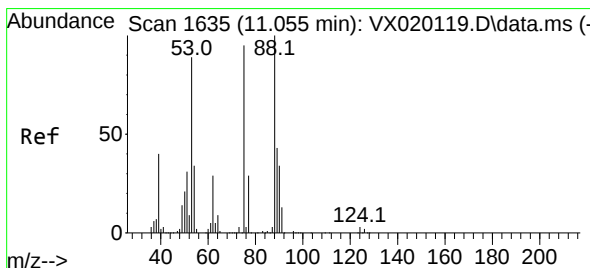
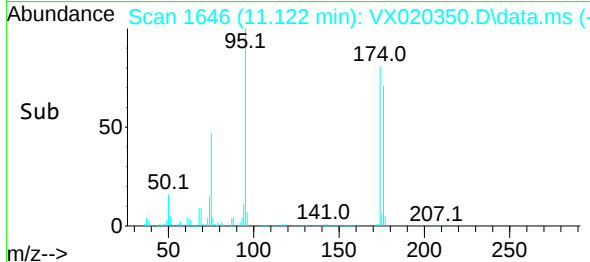
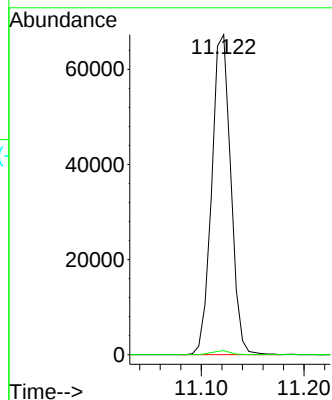
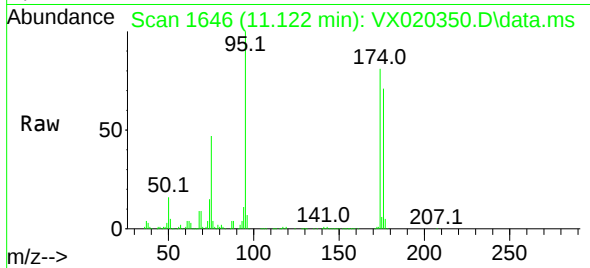




#76  
1,2,3-Trichloropropane  
Concen: 22.82 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. -0.158 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20201211DL

Tgt Ion: 75 Resp: 86570  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 67.70 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. 0.067 min  
Lab File: VX020350.D  
Acq: 23 Dec 2020 19:48

Tgt Ion: 75 Resp: 86570  
Ion Ratio Lower Upper  
75 100  
53 0.1 74.5 111.7#  
89 0.0 37.9 56.9#

