

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122420\  
 Data File : VX020393.D  
 Acq On : 24 Dec 2020 17:20  
 Operator : JC/MD  
 Sample : L5123-19DL 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 25 01:15:27 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

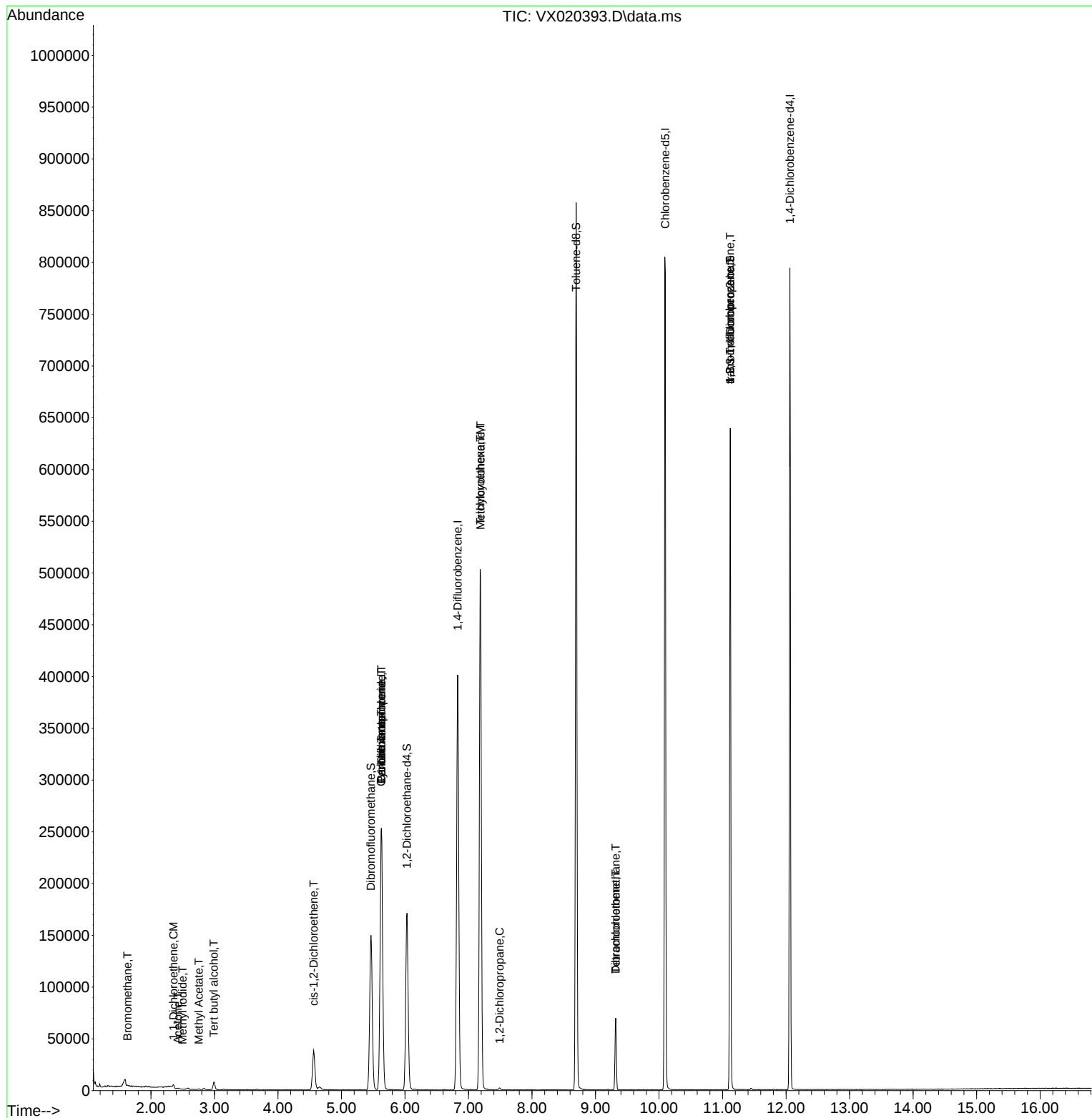
| Compound                      | R.T.           | QIon | Response           | Conc  | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-------|--------|----------|
| -----                         |                |      |                    |       |        |          |
| Internal Standards            |                |      |                    |       |        |          |
| 1) Pentafluorobenzene         | 5.629          | 168  | 241048             | 50.00 | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene       | 6.830          | 114  | 403050             | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.098         | 117  | 375614             | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.061         | 152  | 158666             | 50.00 | ug/l   | 0.00     |
|                               |                |      |                    |       |        |          |
| System Monitoring Compounds   |                |      |                    |       |        |          |
| 33) 1,2-Dichloroethane-d4     | 6.031          | 65   | 162211             | 50.20 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 100.40% |       |        |          |
| 35) Dibromofluoromethane      | 5.464          | 113  | 130226             | 50.51 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 101.02% |       |        |          |
| 50) Toluene-d8                | 8.696          | 98   | 493280             | 49.70 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 99.40%  |       |        |          |
| 62) 4-Bromofluorobenzene      | 11.122         | 95   | 169577             | 44.64 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 89.28%  |       |        |          |
|                               |                |      |                    |       |        |          |
| Target Compounds              |                |      |                    |       | Qvalue |          |
| 5) Bromomethane               | 1.630          | 94   | 483                | 0.46  | ug/l # | 52       |
| 10) Methyl Iodide             | 2.495          | 142  | 82                 | 3.31  | ug/l # | 42       |
| 11) Tert butyl alcohol        | 2.989          | 59   | 4365               | 6.03  | ug/l # | 75       |
| 12) 1,1-Dichloroethene        | 2.355          | 96   | 1387               | 0.56  | ug/l   | 86       |
| 16) Acetone                   | 2.422          | 43   | 958                | 0.65  | ug/l # | 87       |
| 18) Methyl Acetate            | 2.751          | 43   | 904                | 0.28  | ug/l   | 91       |
| 27) cis-1,2-Dichloroethene    | 4.562          | 96   | 24296              | 7.20  | ug/l   | 92       |
| 31) Cyclohexane               | 5.623          | 56   | 4926               | 1.11  | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.629          | 75   | 18719              | 4.70  | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.629          | 117  | 23569              | 6.22  | ug/l # | 17       |
| 39) Methylcyclohexane         | 7.190          | 83   | 2372               | 0.52  | ug/l # | 1        |
| 44) Trichloroethene           | 7.184          | 130  | 198740             | 62.00 | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 7.488          | 63   | 780                | 0.25  | ug/l # | 84       |
| 60) Dibromochloromethane      | 9.317          | 129  | 12877              | 4.16  | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.317          | 164  | 13401              | 4.74  | ug/l   | 90       |
| 76) 1,2,3-Trichloropropane    | 11.122         | 75   | 83085              | 21.26 | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.122         | 75   | 83085              | 63.07 | ug/l # | 12       |
| -----                         |                |      |                    |       |        |          |

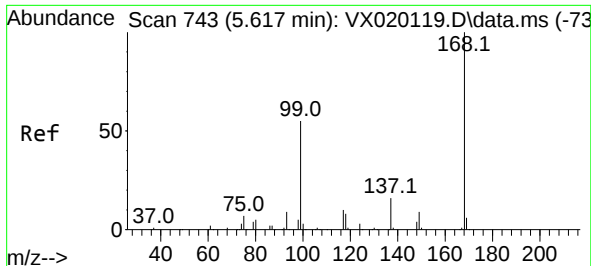
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Dec 25 01:15:27 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

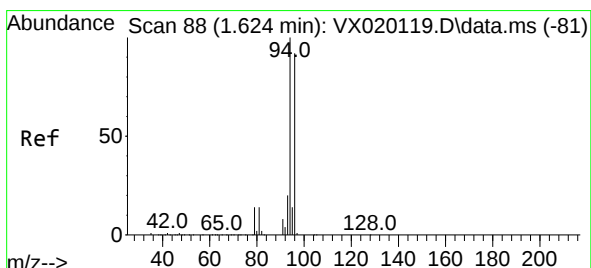
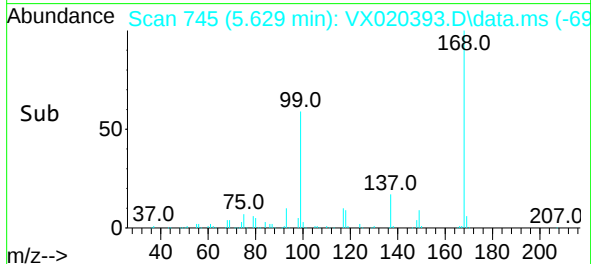
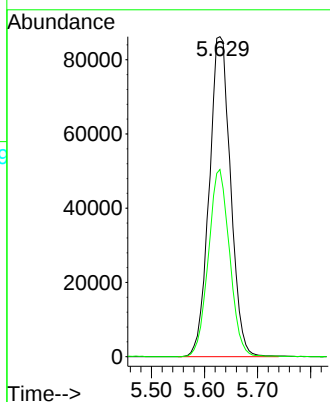
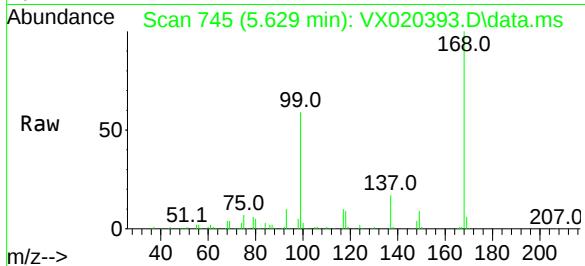




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. 0.012 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

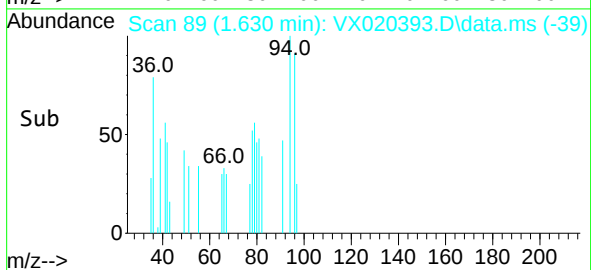
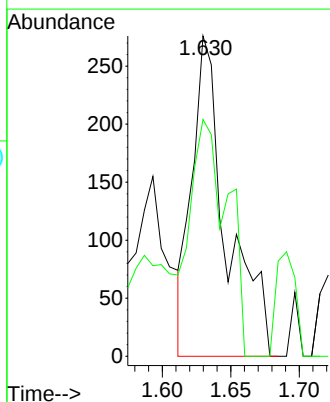
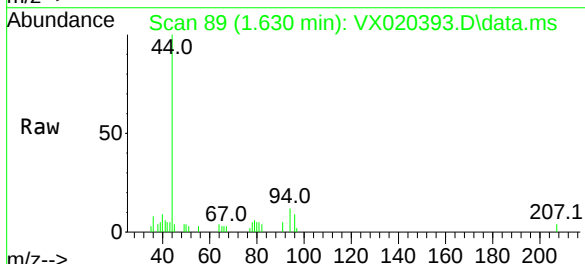
Instrument :  
MSVOA\_X  
ClientSampled :

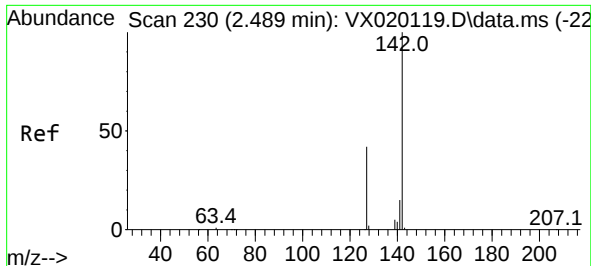
Tgt Ion:168 Resp: 241048  
Ion Ratio Lower Upper  
168 100  
99 58.5 45.8 68.6



#5  
Bromomethane  
Concen: 0.46 ug/l  
RT: 1.630 min Scan# 89  
Delta R.T. 0.006 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

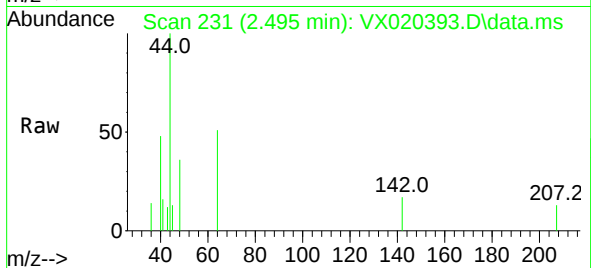
Tgt Ion: 94 Resp: 483  
Ion Ratio Lower Upper  
94 100  
96 48.6 76.4 114.6#



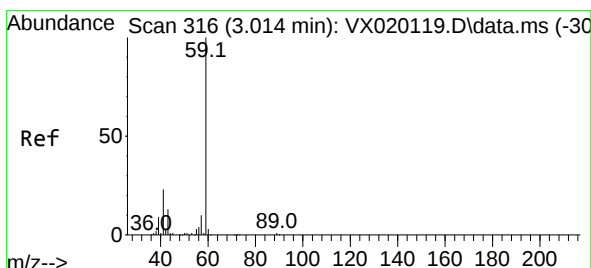
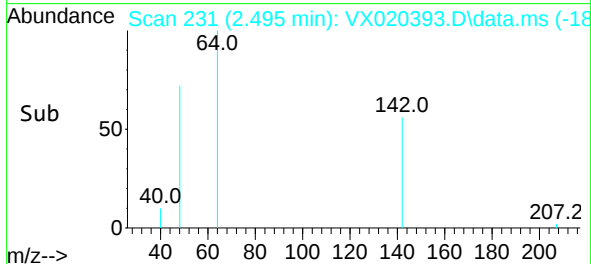
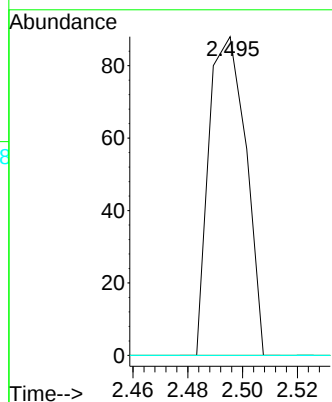


#10  
Methyl Iodide  
Concen: 3.31 ug/l  
RT: 2.495 min Scan# 231  
Delta R.T. 0.006 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

Instrument :  
MSVOA\_X  
ClientSampled :

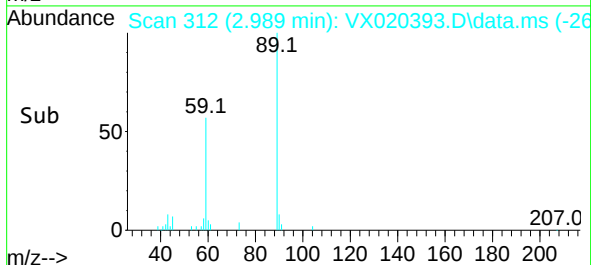
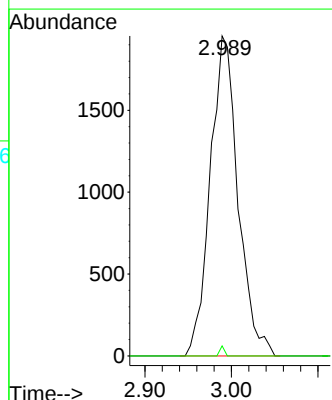
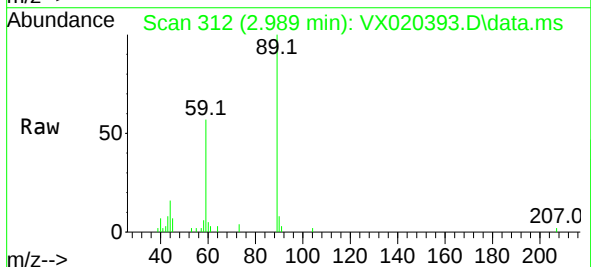


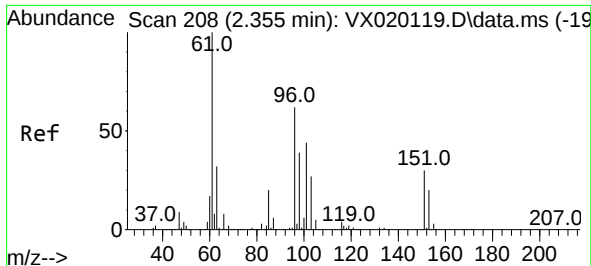
Tgt Ion:142 Resp: 82  
Ion Ratio Lower Upper  
142 100  
127 0.0 33.3 49.9#  
141 0.0 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 6.03 ug/l  
RT: 2.989 min Scan# 312  
Delta R.T. -0.025 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

Tgt Ion: 59 Resp: 4365  
Ion Ratio Lower Upper  
59 100  
57 0.5 7.8 11.8#





#12

1,1-Dichloroethene

Concen: 0.56 ug/l

RT: 2.355 min Scan# 208

Delta R.T. 0.000 min

Lab File: VX020393.D

Acq: 24 Dec 2020 17:20

Tgt Ion: 96 Resp: 1387

Ion Ratio Lower Upper

96 100

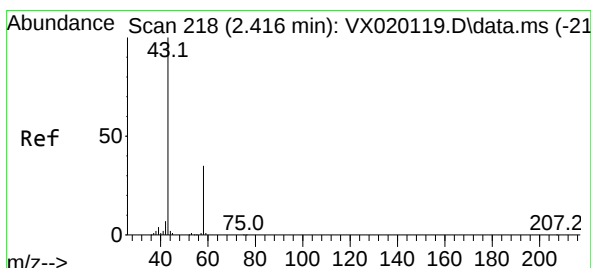
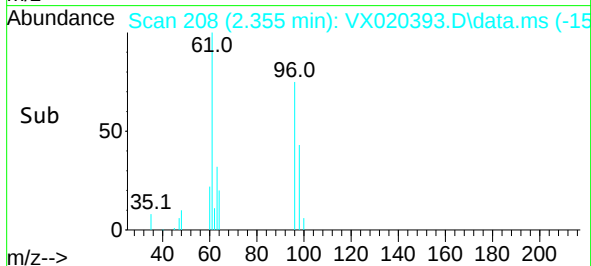
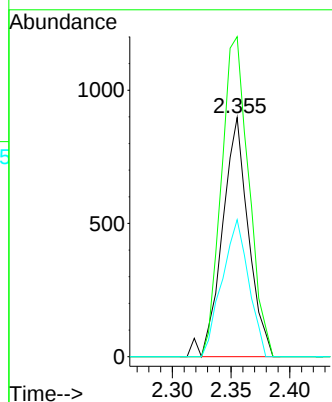
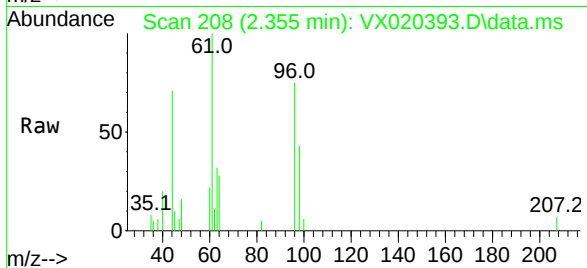
61 133.7 124.6 187.0

98 57.2 50.6 76.0

Instrument :

MSVOA\_X

ClientSampled :



#16

Acetone

Concen: 0.65 ug/l

RT: 2.422 min Scan# 219

Delta R.T. 0.006 min

Lab File: VX020393.D

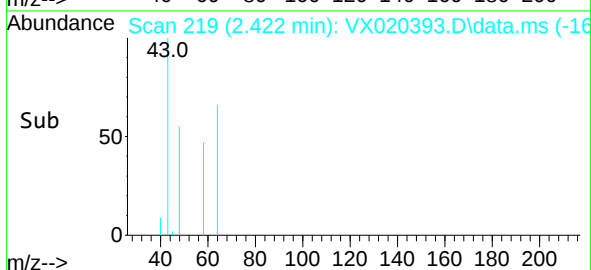
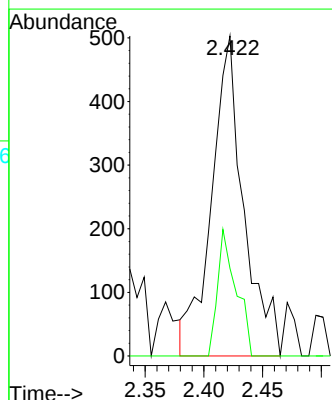
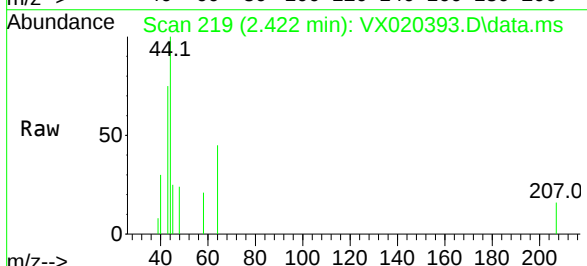
Acq: 24 Dec 2020 17:20

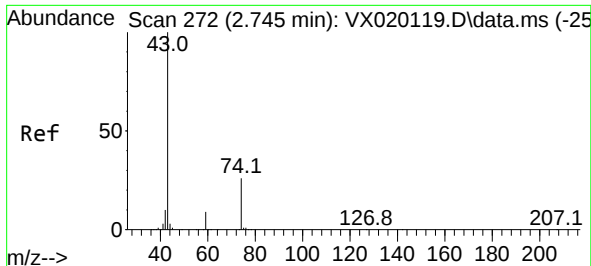
Tgt Ion: 43 Resp: 958

Ion Ratio Lower Upper

43 100

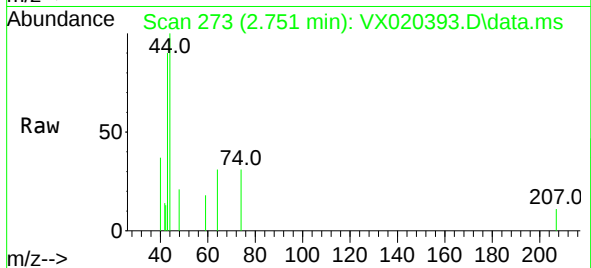
58 27.4 27.8 41.8#



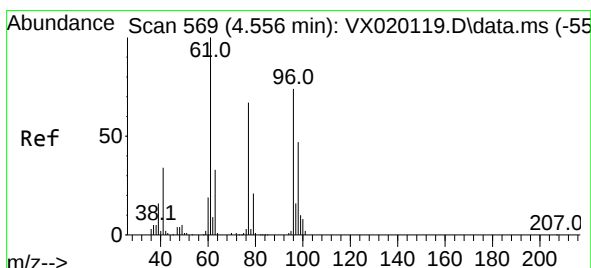
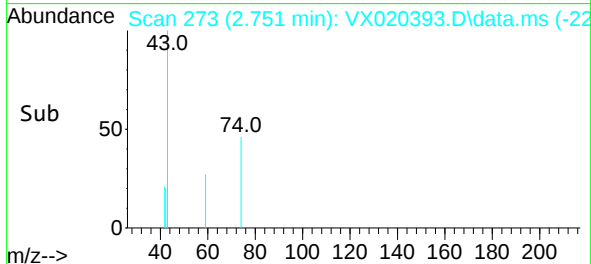
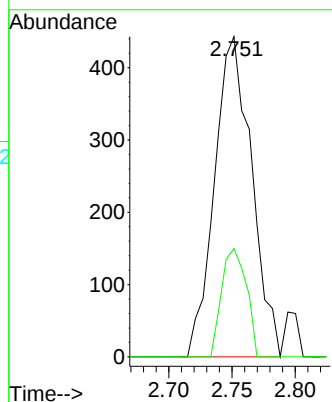


#18  
Methyl Acetate  
Concen: 0.28 ug/l  
RT: 2.751 min Scan# 273  
Delta R.T. 0.006 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

Instrument :  
MSVOA\_X  
ClientSampled :

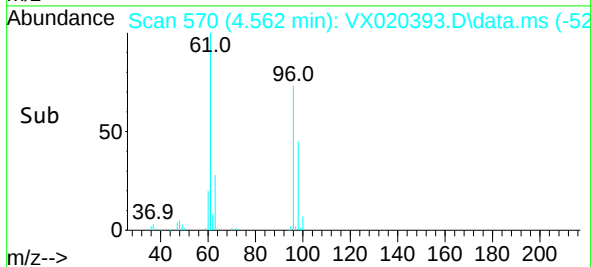
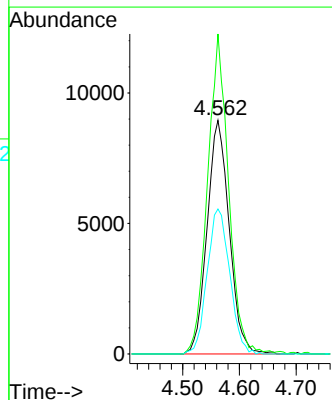
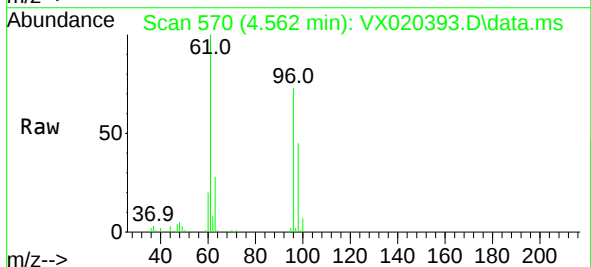


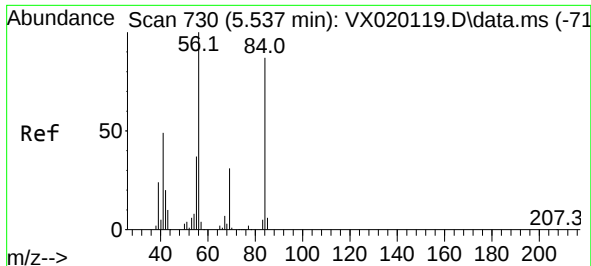
Tgt Ion: 43 Resp: 904  
Ion Ratio Lower Upper  
43 100  
74 22.5 21.9 32.9



#27  
cis-1,2-Dichloroethene  
Concen: 7.20 ug/l  
RT: 4.562 min Scan# 570  
Delta R.T. 0.006 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

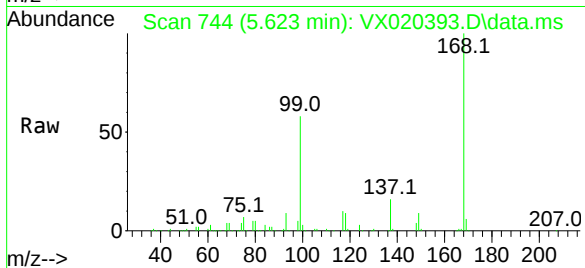
Tgt Ion: 96 Resp: 24296  
Ion Ratio Lower Upper  
96 100  
61 129.5 0.0 285.6  
98 63.2 0.0 129.6



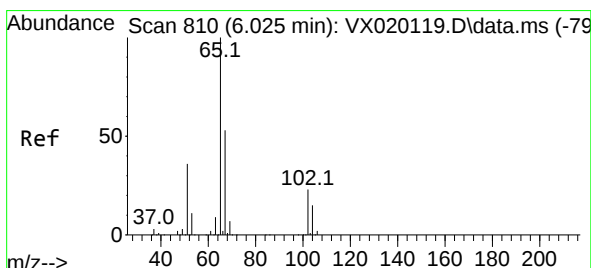
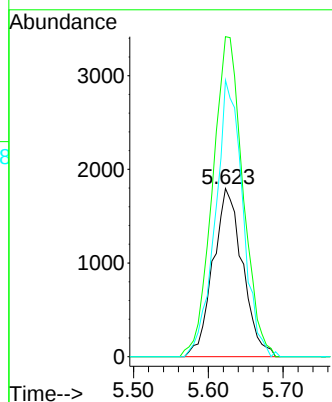
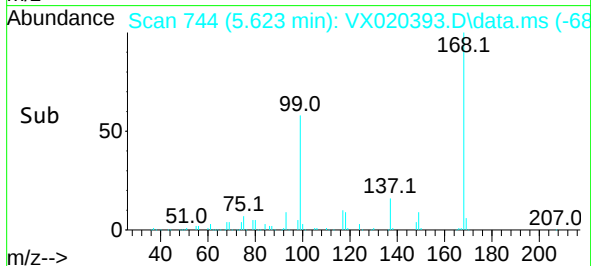


#31  
Cyclohexane  
Concen: 1.11 ug/l  
RT: 5.623 min Scan# 744  
Delta R.T. 0.086 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

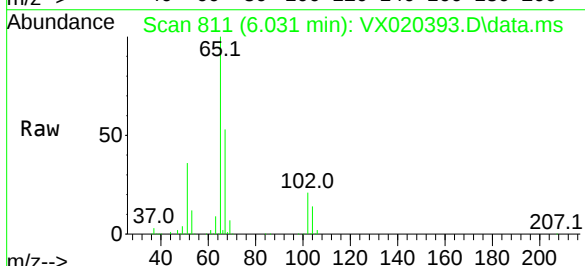
Instrument :  
MSVOA\_X  
ClientSampleId :



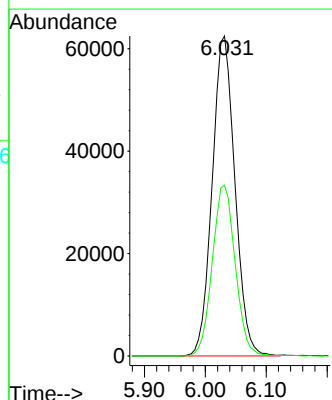
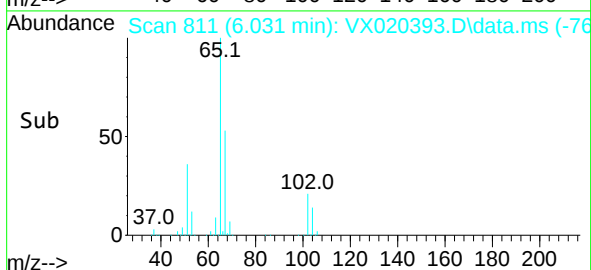
Tgt Ion: 56 Resp: 4926  
Ion Ratio Lower Upper  
56 100  
69 190.3 25.3 37.9#  
84 164.4 71.4 107.0#

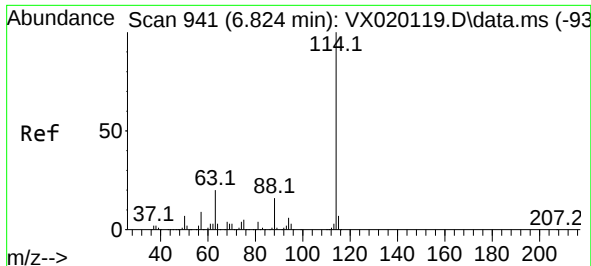


#33  
1,2-Dichloroethane-d4  
Concen: 50.20 ug/l  
RT: 6.031 min Scan# 811  
Delta R.T. 0.006 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20



Tgt Ion: 65 Resp: 162211  
Ion Ratio Lower Upper  
65 100  
67 53.7 0.0 105.4

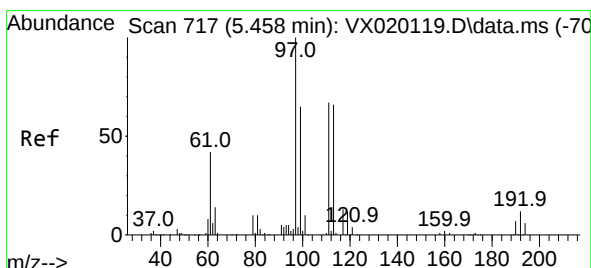
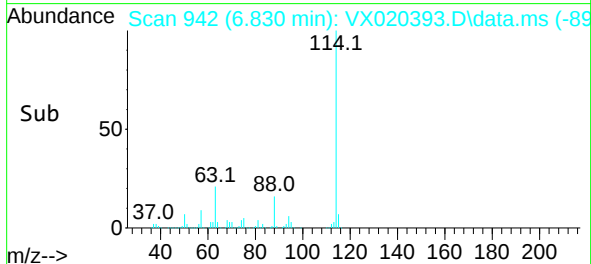
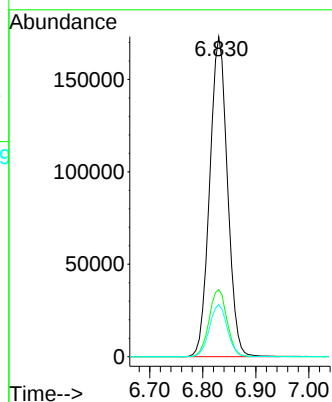
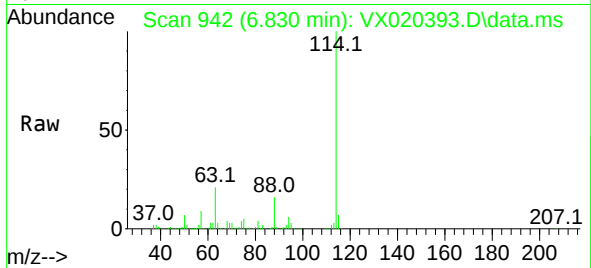




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 6.830 min Scan# 942  
Delta R.T. 0.006 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

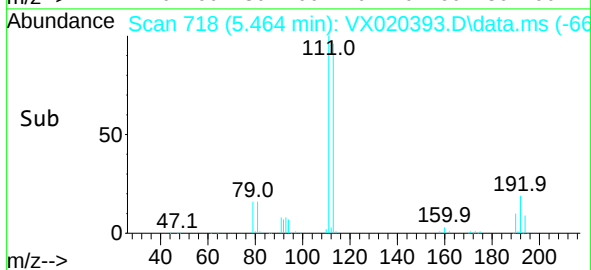
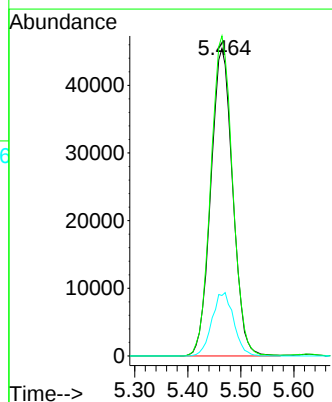
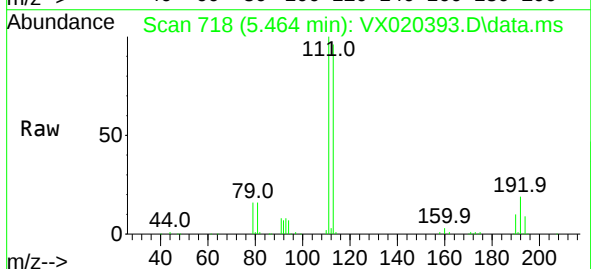
Instrument :  
MSVOA\_X  
ClientSampled :

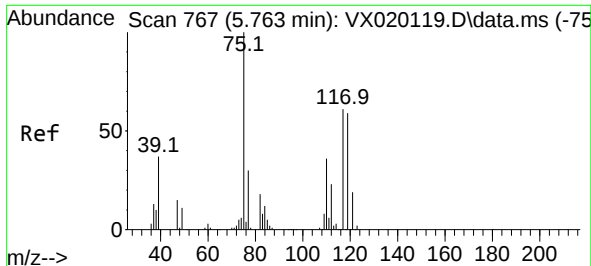
Tgt Ion:114 Resp: 403050  
Ion Ratio Lower Upper  
114 100  
63 20.9 0.0 40.8  
88 16.3 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 50.51 ug/l  
RT: 5.464 min Scan# 718  
Delta R.T. 0.006 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

Tgt Ion:113 Resp: 130226  
Ion Ratio Lower Upper  
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111 103.8 81.9 122.9  
192 20.5 16.7 25.1

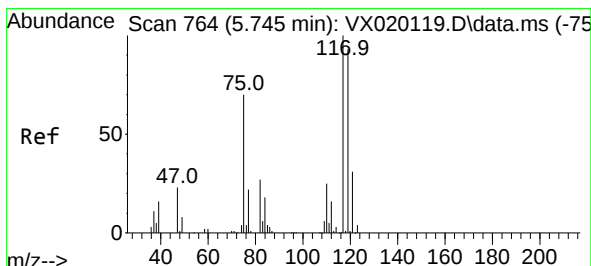
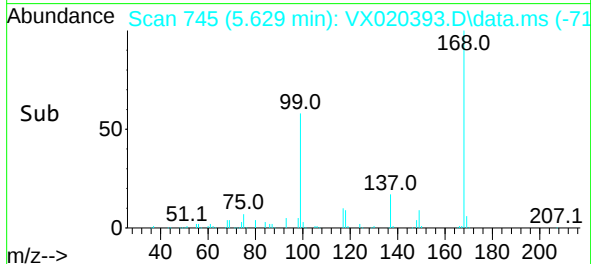
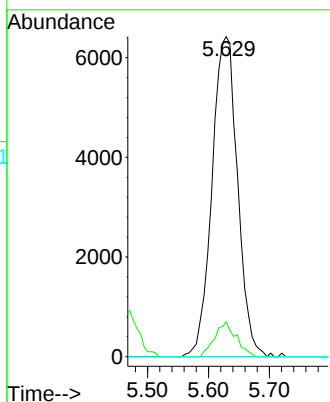
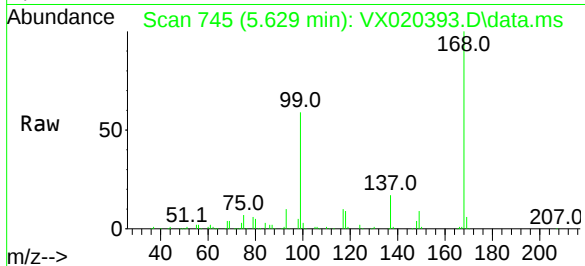




#36  
1,1-Dichloropropene  
Concen: 4.70 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.134 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

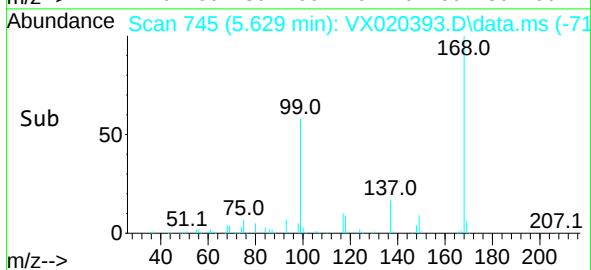
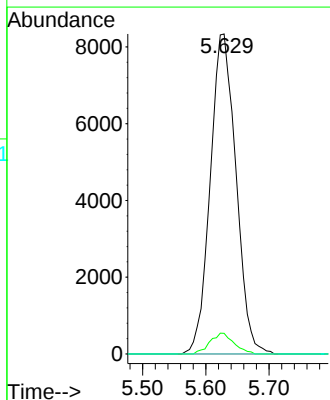
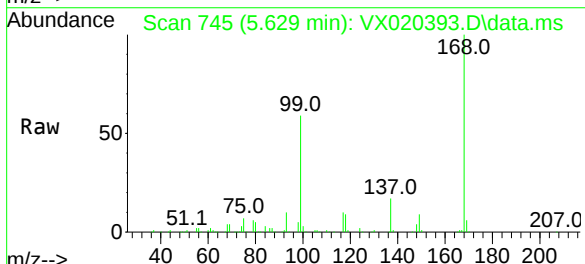
Instrument :  
MSVOA\_X  
ClientSampled :

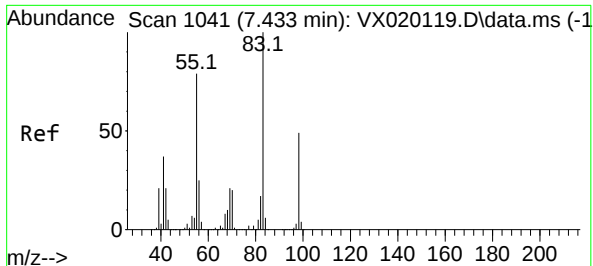
Tgt Ion: 75 Resp: 18719  
Ion Ratio Lower Upper  
75 100  
110 9.2 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.22 ug/l  
RT: 5.629 min Scan# 745  
Delta R.T. -0.116 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

Tgt Ion:117 Resp: 23569  
Ion Ratio Lower Upper  
117 100  
119 6.5 76.2 114.2#  
121 0.0 24.8 37.2#





#39

Methylcyclohexane

Concen: 0.52 ug/l

RT: 7.190 min Scan# 1001

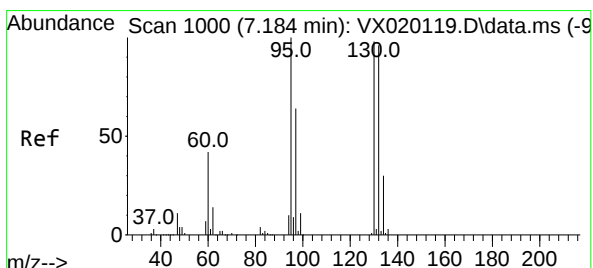
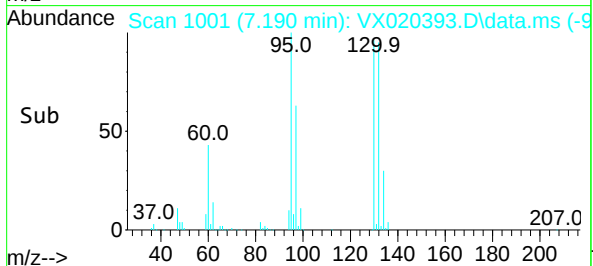
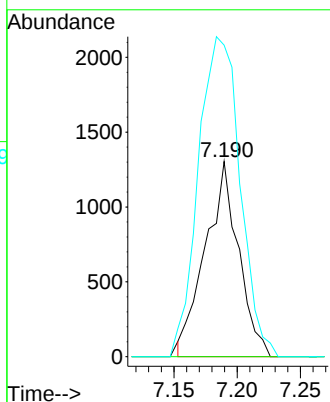
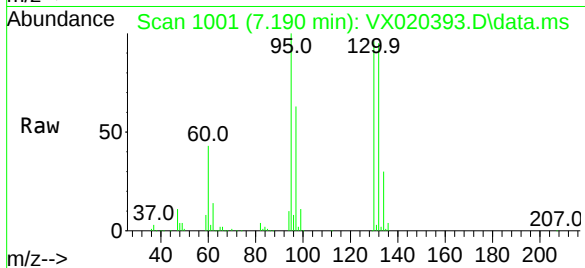
Delta R.T. -0.243 min

Lab File: VX020393.D

Acq: 24 Dec 2020 17:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 2372  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 0.0   | 58.9  | 88.3# |
| 98       | 159.6 | 38.1  | 57.1# |

Instrument :  
MSVOA\_X  
ClientSampled :



#44

Trichloroethene

Concen: 62.00 ug/l

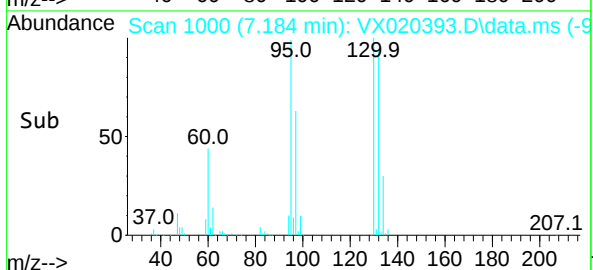
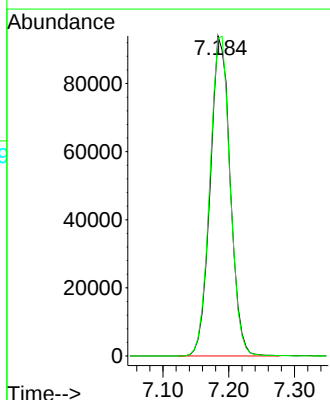
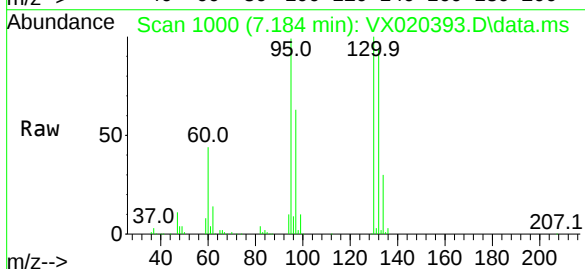
RT: 7.184 min Scan# 1000

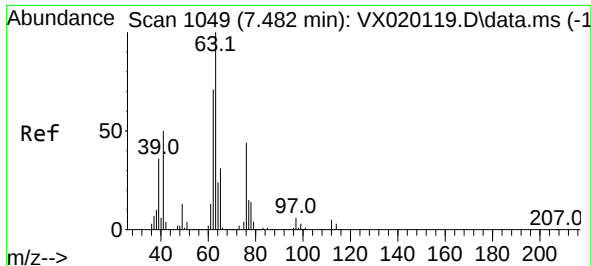
Delta R.T. -0.000 min

Lab File: VX020393.D

Acq: 24 Dec 2020 17:20

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 130   | Resp: | 198740 |
| Ion      | Ratio | Lower | Upper  |
| 130      | 100   |       |        |
| 95       | 99.3  | 0.0   | 198.0  |

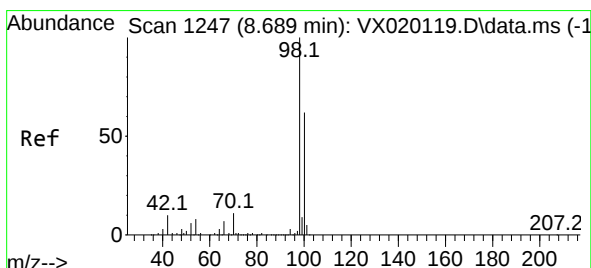
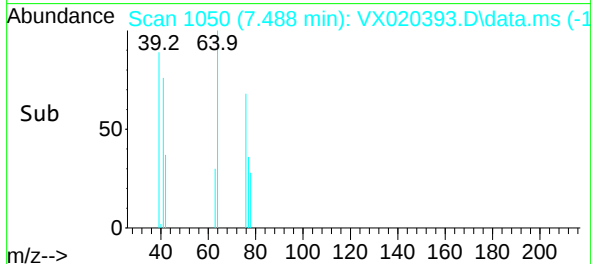
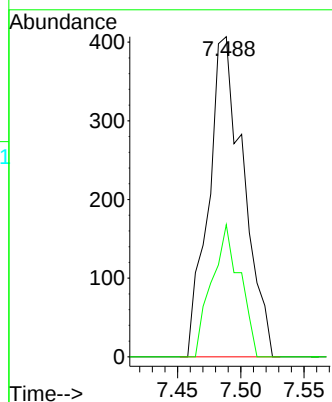
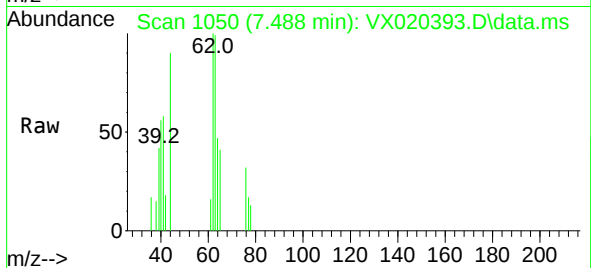




#45  
1,2-Dichloropropane  
Concen: 0.25 ug/l  
RT: 7.488 min Scan# 1050  
Delta R.T. 0.006 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

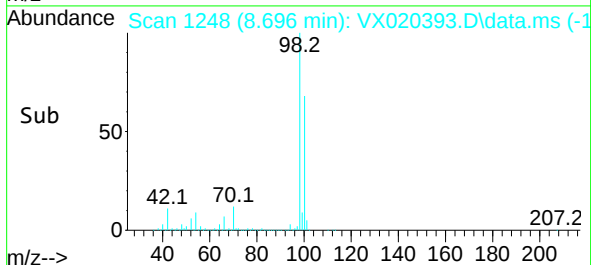
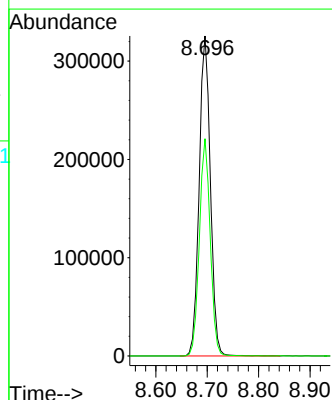
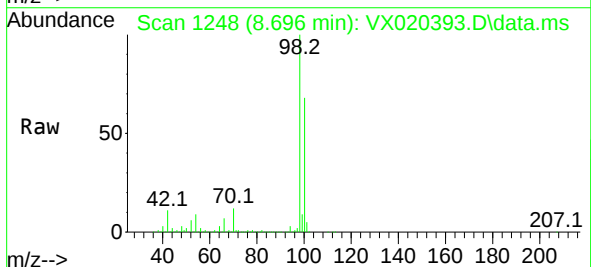
Instrument :  
MSVOA\_X  
ClientSampled :

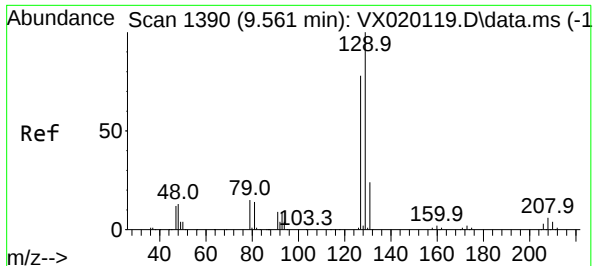
Tgt Ion: 63 Resp: 780  
Ion Ratio Lower Upper  
63 100  
65 41.3 25.7 38.5#



#50  
Toluene-d8  
Concen: 49.70 ug/l  
RT: 8.696 min Scan# 1248  
Delta R.T. 0.007 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

Tgt Ion: 98 Resp: 493280  
Ion Ratio Lower Upper  
98 100  
100 65.9 51.9 77.9

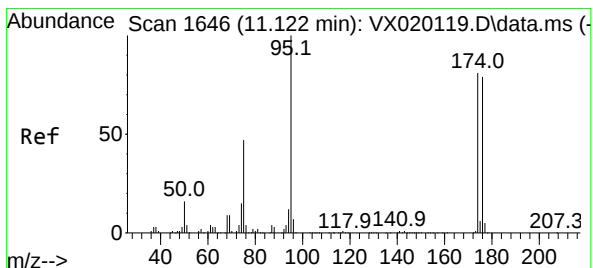
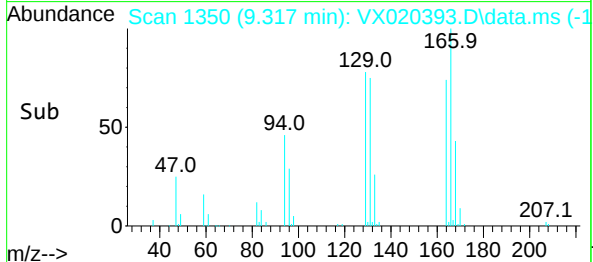
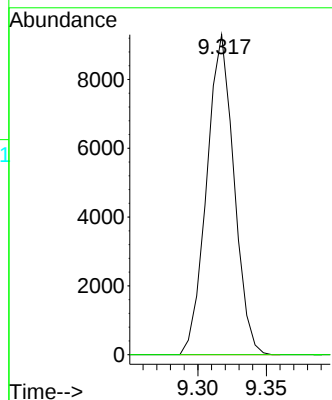
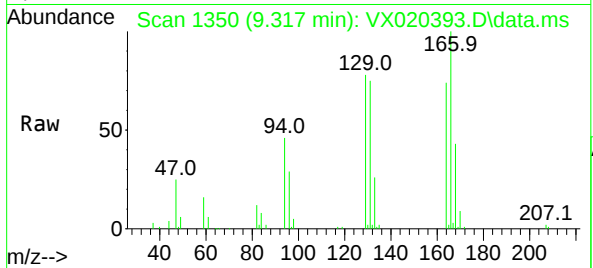




#60  
Dibromochloromethane  
Concen: 4.16 ug/l  
RT: 9.317 min Scan# 1350  
Delta R.T. -0.244 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

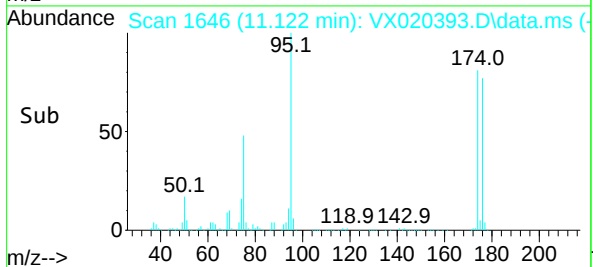
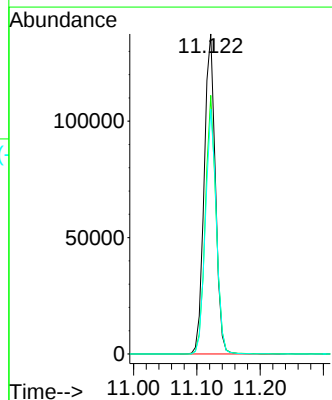
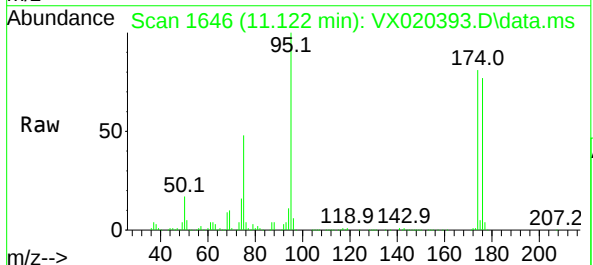
Instrument :  
MSVOA\_X  
ClientSampled :

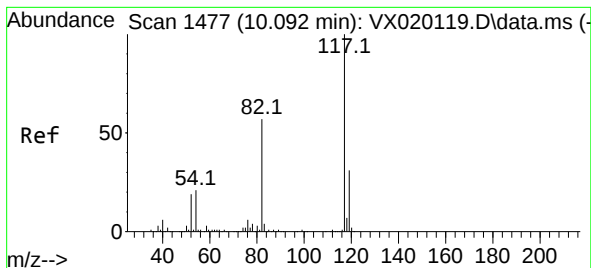
Tgt Ion:129 Resp: 12877  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#



#62  
4-Bromofluorobenzene  
Concen: 44.64 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. -0.000 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

Tgt Ion: 95 Resp: 169577  
Ion Ratio Lower Upper  
95 100  
174 77.4 0.0 154.6  
176 74.7 0.0 155.8

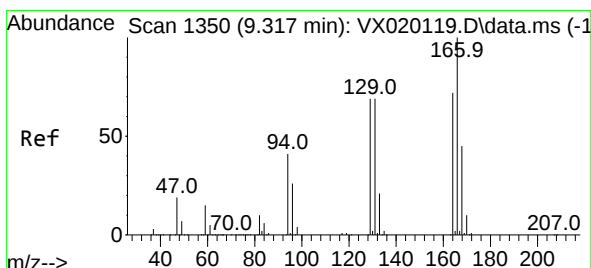
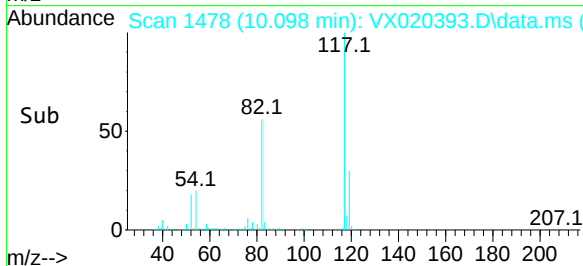
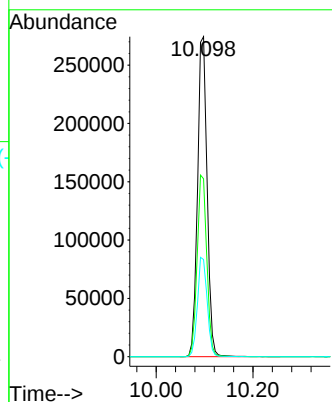
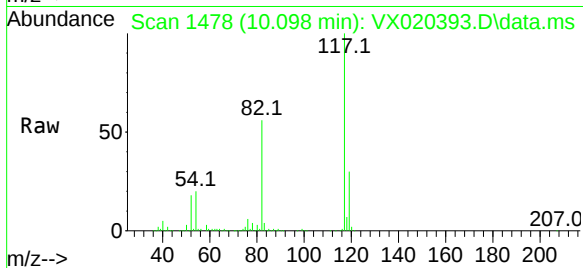




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.098 min Scan# 1478  
Delta R.T. 0.006 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

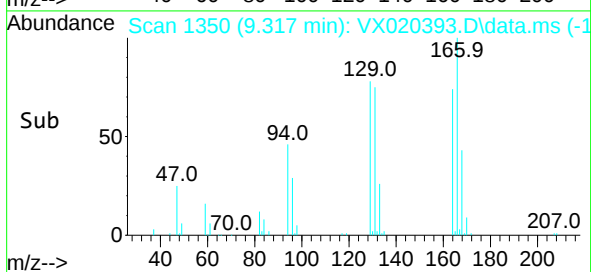
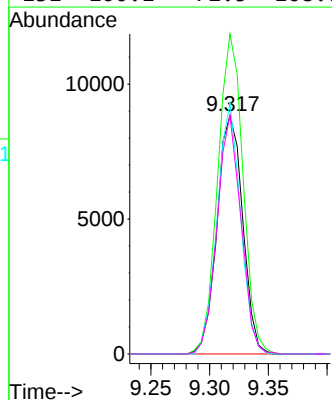
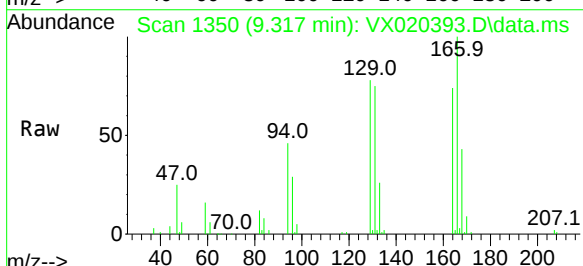
Instrument :  
MSVOA\_X  
ClientSampled :

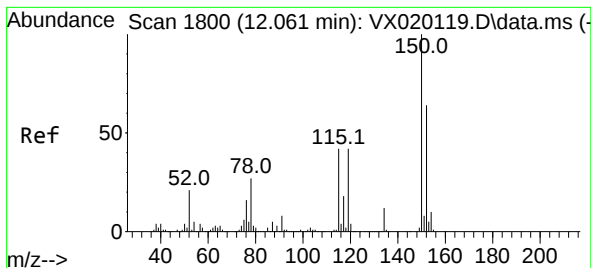
Tgt Ion:117 Resp: 375614  
Ion Ratio Lower Upper  
117 100  
82 55.6 47.4 71.2  
119 30.4 26.6 39.8



#64  
Tetrachloroethene  
Concen: 4.74 ug/l  
RT: 9.317 min Scan# 1350  
Delta R.T. 0.000 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

Tgt Ion:164 Resp: 13401  
Ion Ratio Lower Upper  
164 100  
166 134.3 103.4 155.2  
129 105.3 70.8 106.2  
131 100.1 72.5 108.7

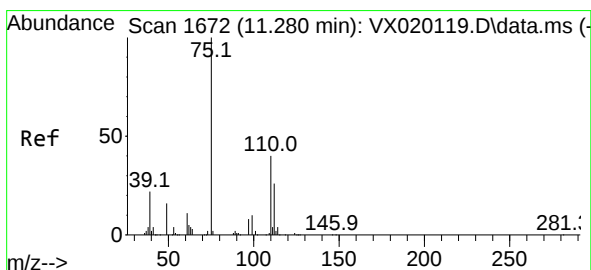
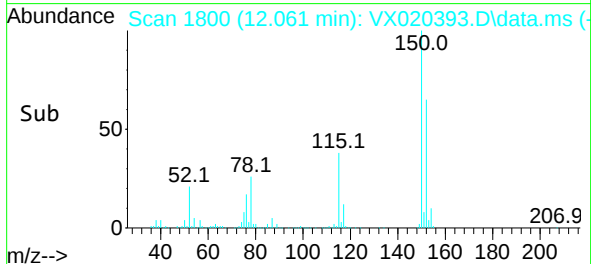
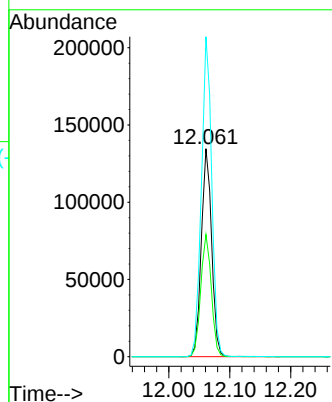
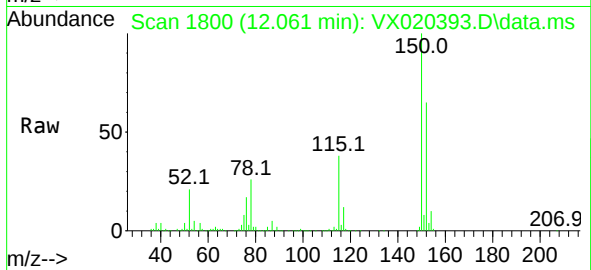




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.061 min Scan# 1800  
Delta R.T. -0.000 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

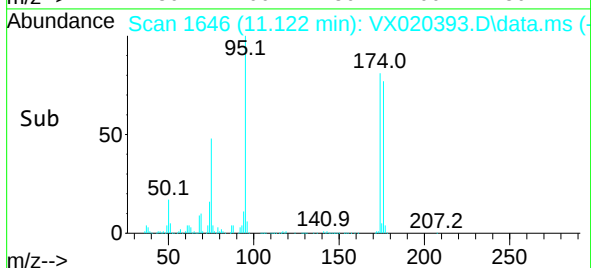
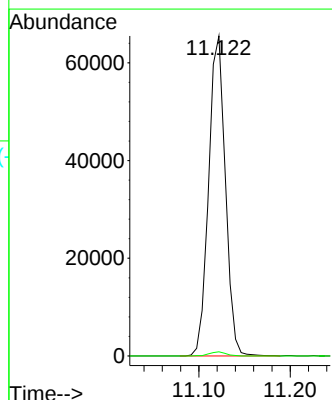
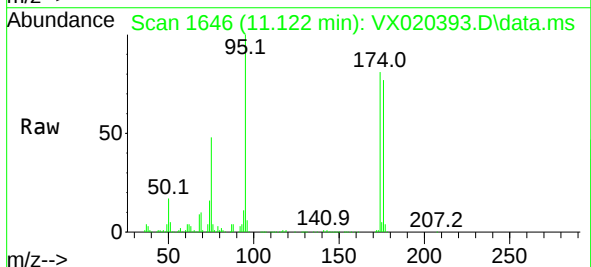
Instrument :  
MSVOA\_X  
ClientSampled :

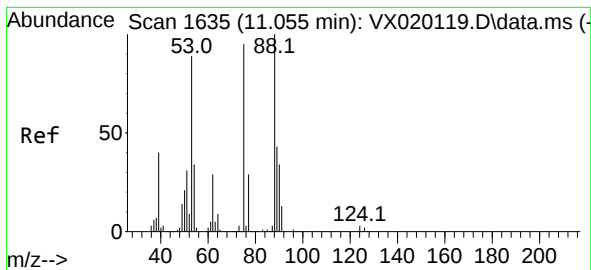
Tgt Ion:152 Resp: 158666  
Ion Ratio Lower Upper  
152 100  
115 60.0 41.1 123.3  
150 154.1 0.0 349.0



#76  
1,2,3-Trichloropropane  
Concen: 21.26 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. -0.158 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

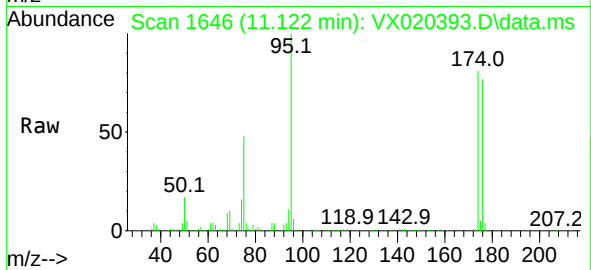
Tgt Ion: 75 Resp: 83085  
Ion Ratio Lower Upper  
75 100  
77 1.3 19.1 57.5#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.07 ug/l  
RT: 11.122 min Scan# 1646  
Delta R.T. 0.067 min  
Lab File: VX020393.D  
Acq: 24 Dec 2020 17:20

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 75 Resp: 83085  
Ion Ratio Lower Upper  
75 100  
53 0.1 74.5 111.7#  
89 0.1 37.9 56.9#

