

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120321\  
 Data File : VX025489.D  
 Acq On : 03 Dec 2021 17:53  
 Operator : JC/MD  
 Sample : M4924-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE108D1-20211202

Quant Time: Dec 04 06:52:34 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 17 15:36:16 2021  
 Response via : Initial Calibration

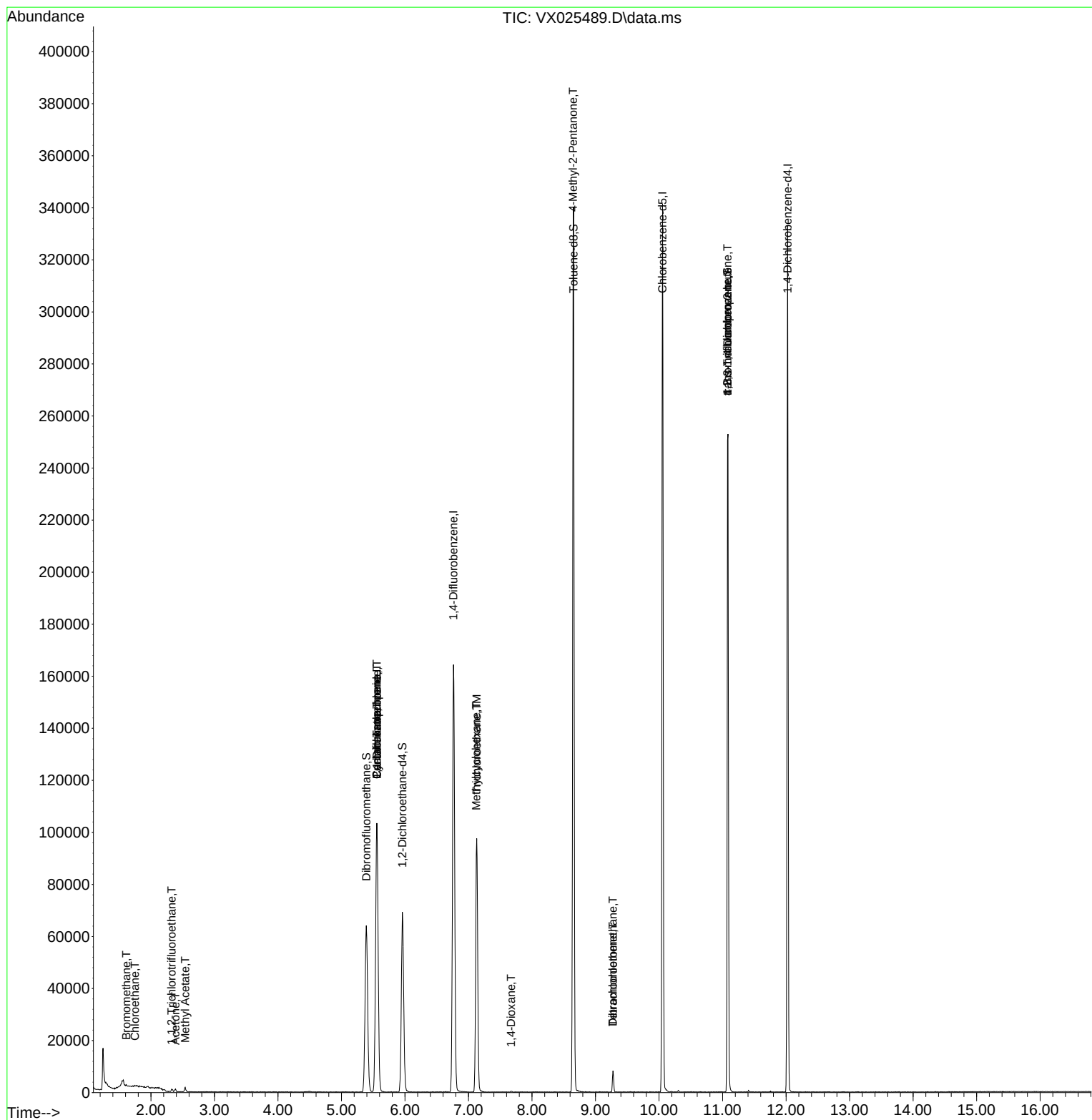
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 103305   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 176437   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 158924   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 69823    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 62864    | 57.731    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 115.460% |
| 35) Dibromofluoromethane      | 5.391  | 113   | 54685    | 50.515    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 101.020% |
| 50) Toluene-d8                | 8.653  | 98    | 204089   | 50.141    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 100.280% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 70535    | 45.807    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 91.620%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 1.611  | 94    | 116      | 0.222     | ug/l # | 79       |
| 6) Chloroethane               | 1.745  | 64    | 392      | 0.467     | ug/l # | 86       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.325  | 101   | 430      | 0.447     | ug/l   | 91       |
| 11) Tert butyl alcohol        | 2.946  | 59    | 49       | Below Cal | #      | 72       |
| 16) Acetone                   | 2.386  | 43    | 1102     | 1.821     | ug/l # | 84       |
| 18) Methyl Acetate            | 2.538  | 43    | 399      | 0.206     | ug/l # | 52       |
| 31) Cyclohexane               | 5.556  | 56    | 1962     | 1.166     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 7003     | 4.549     | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 10105    | 5.960     | ug/l # | 17       |
| 39) Methylcyclohexane         | 7.123  | 83    | 427      | 0.216     | ug/l # | 1        |
| 44) Trichloroethene           | 7.129  | 130   | 40177    | 29.659    | ug/l   | 92       |
| 49) 1,4-Dioxane               | 7.671  | 88    | 252      | 8.724     | ug/l # | 72       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 911      | 0.498     | ug/l # | 1        |
| 60) Dibromochloromethane      | 9.275  | 129   | 1441     | 1.035     | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 1519     | 1.159     | ug/l   | 92       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 34557    | 24.169    | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 34557    | 60.885    | ug/l # | 9        |
| 95) Naphthalene               | 13.780 | 128   | 50       | Below Cal | #      | 69       |
| -----                         |        |       |          |           |        |          |

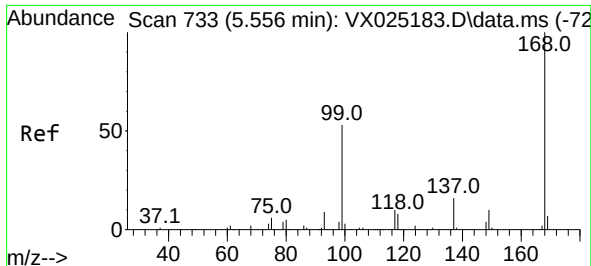
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 17 15:36:16 2021  
Response via : Initial Calibration

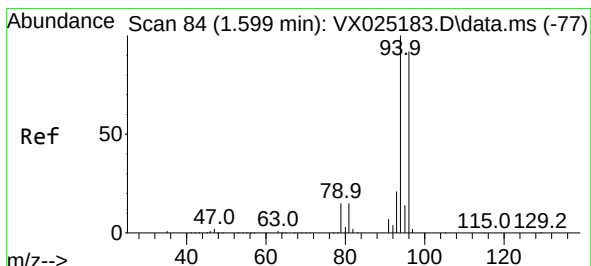
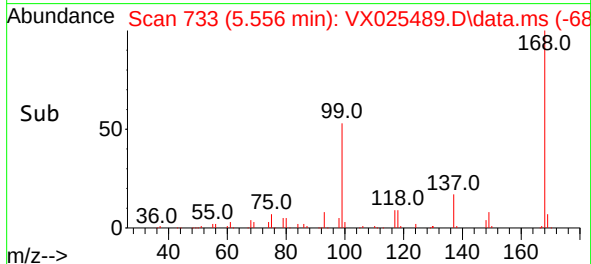
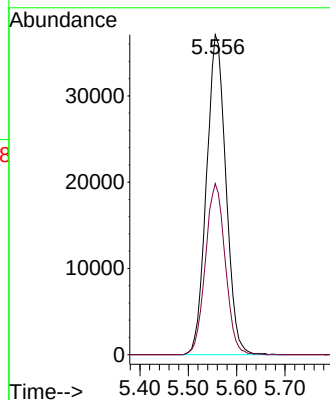
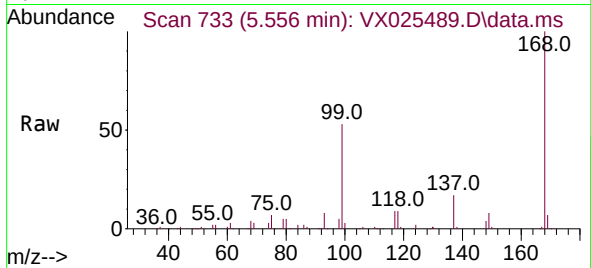




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

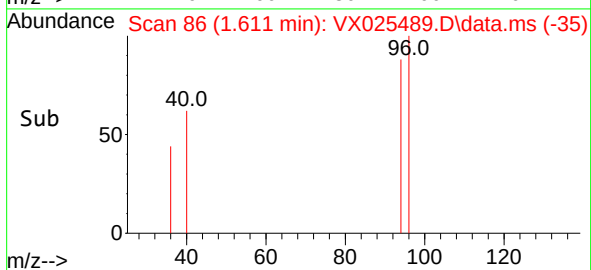
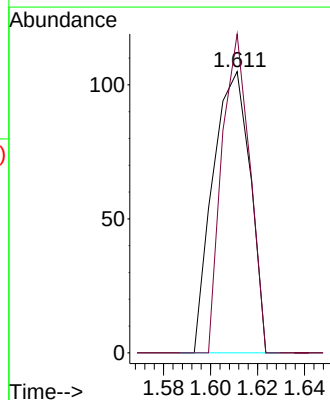
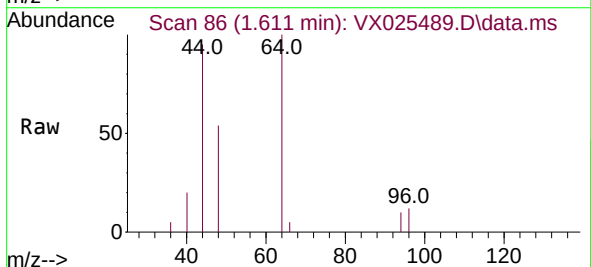
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20211202

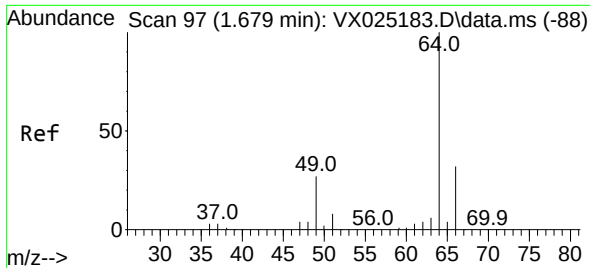
Tgt Ion:168 Resp: 103305  
Ion Ratio Lower Upper  
168 100  
99 53.5 46.4 69.6



#5  
Bromomethane  
Concen: 0.222 ug/l  
RT: 1.611 min Scan# 86  
Delta R.T. 0.012 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

Tgt Ion: 94 Resp: 116  
Ion Ratio Lower Upper  
94 100  
96 113.3 74.8 112.2#

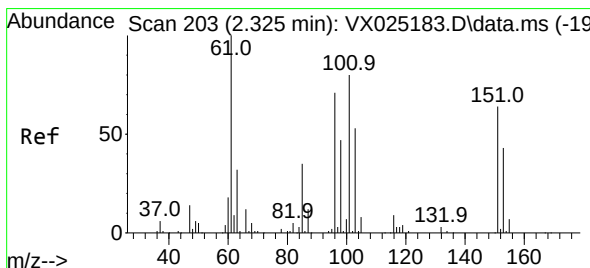
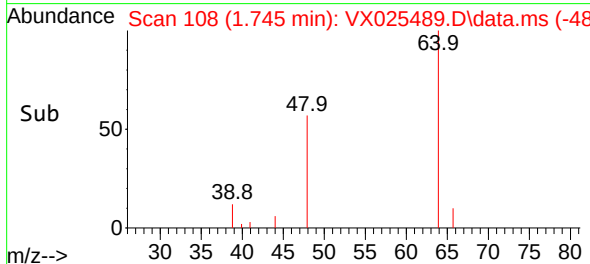
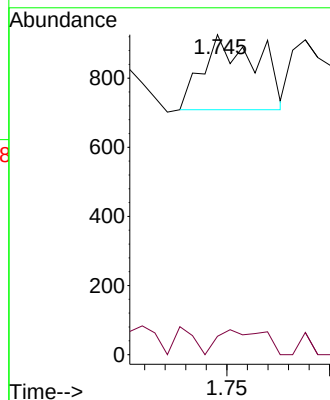
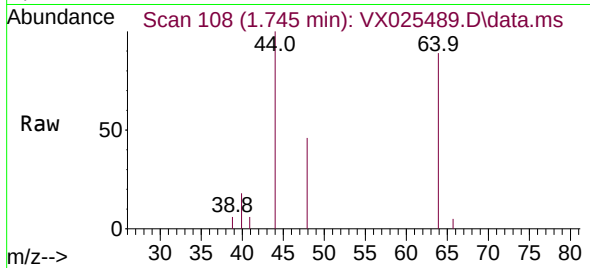




#6  
Chloroethane  
Concen: 0.467 ug/l  
RT: 1.745 min Scan# 10  
Delta R.T. 0.066 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

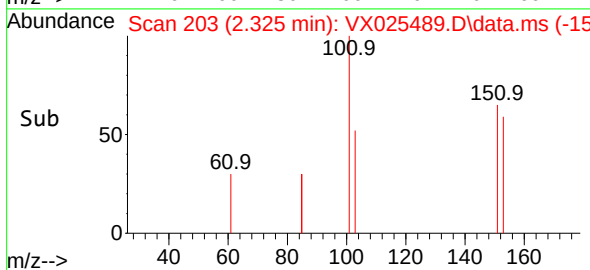
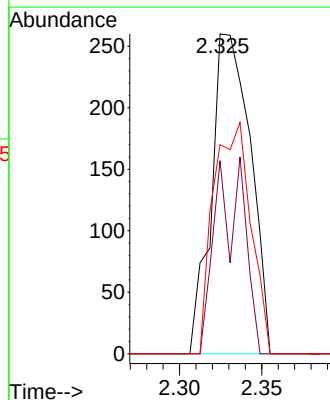
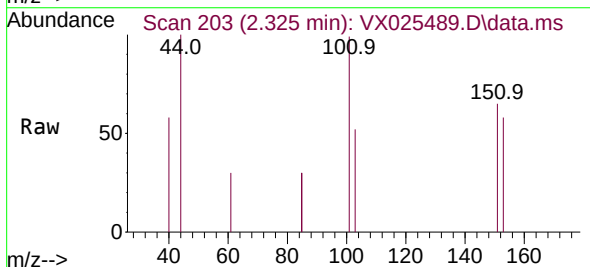
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20211202

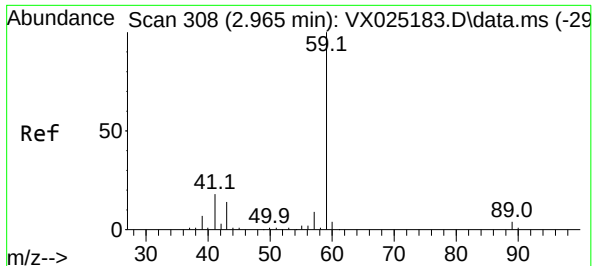
Tgt Ion: 64 Resp: 392  
Ion Ratio Lower Upper  
64 100  
66 24.4 25.6 38.4#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.447 ug/l  
RT: 2.325 min Scan# 203  
Delta R.T. -0.000 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

Tgt Ion: 101 Resp: 430  
Ion Ratio Lower Upper  
101 100  
85 44.7 35.9 53.9  
151 68.8 64.4 96.6

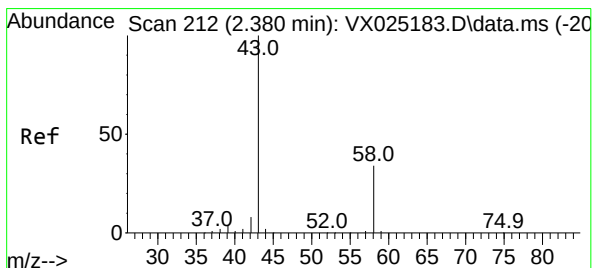
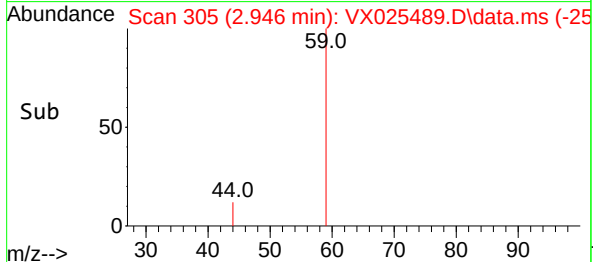
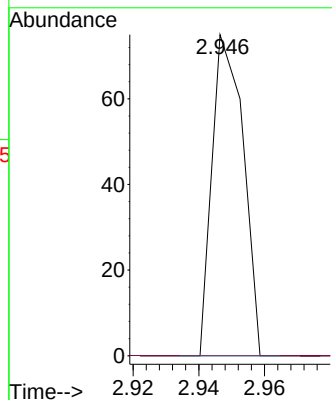
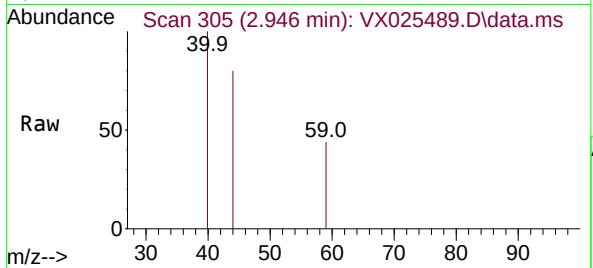




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.946 min Scan# 308  
Delta R.T. -0.019 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

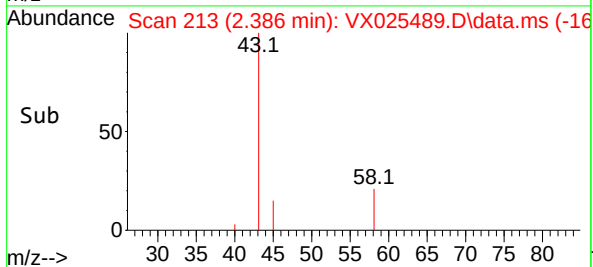
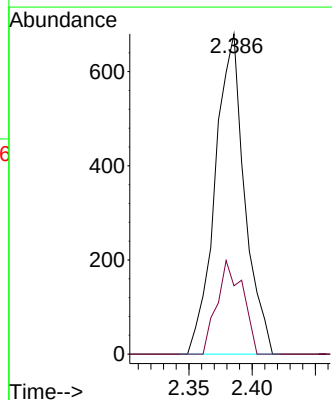
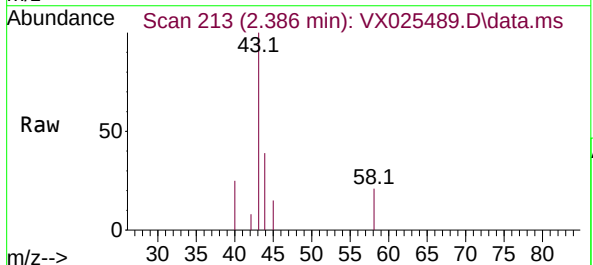
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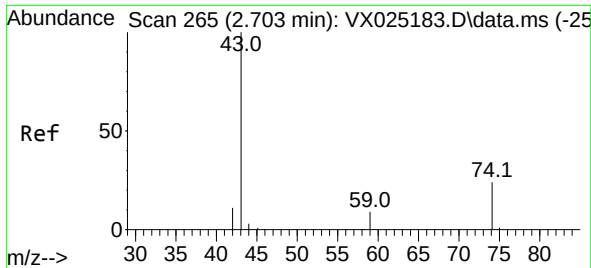
Tgt Ion: 59 Resp: 49  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#



#16  
Acetone  
Concen: 1.821 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.006 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

Tgt Ion: 43 Resp: 1102  
Ion Ratio Lower Upper  
43 100  
58 21.3 24.0 36.0#

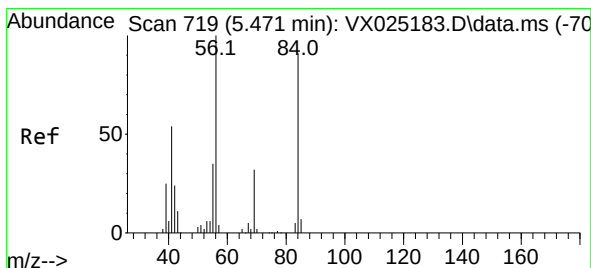
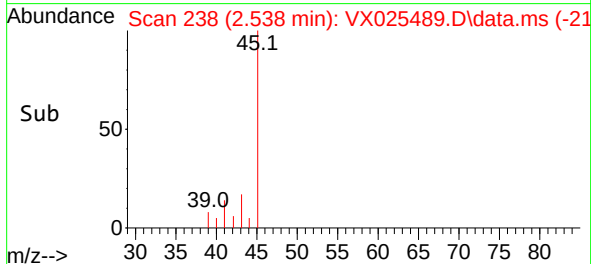
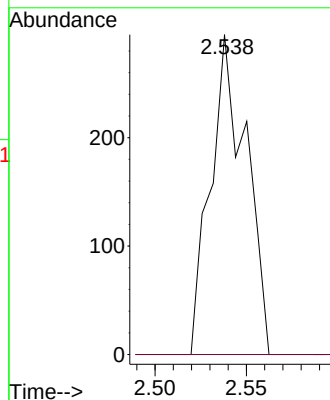
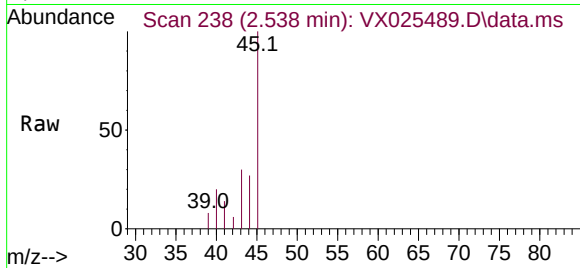




#18  
Methyl Acetate  
Concen: 0.206 ug/l  
RT: 2.538 min Scan# 21  
Delta R.T. -0.165 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

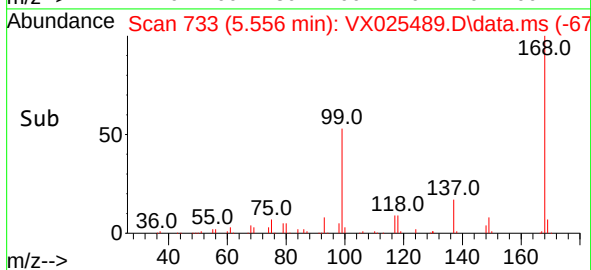
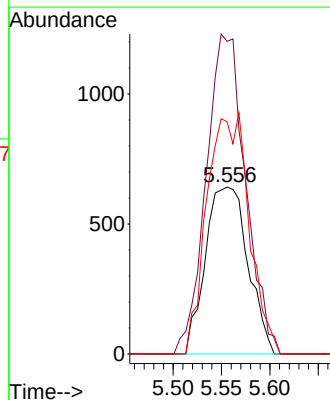
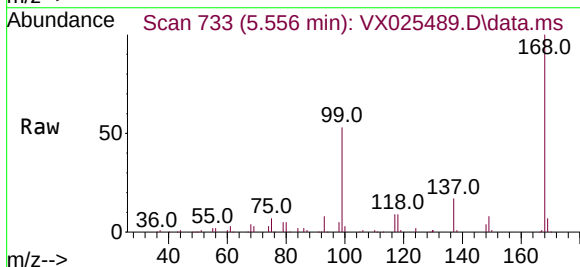
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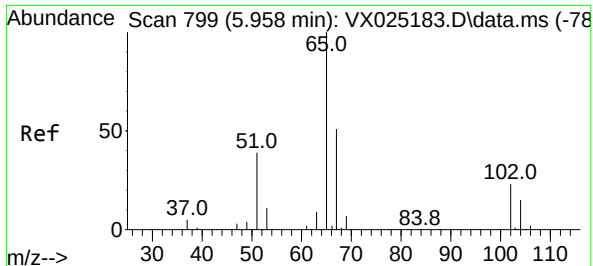
Tgt Ion: 43 Resp: 399  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.0 28.6#



#31  
Cyclohexane  
Concen: 1.166 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.085 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

Tgt Ion: 56 Resp: 1962  
Ion Ratio Lower Upper  
56 100  
69 187.4 24.2 36.2#  
84 139.1 71.5 107.3#

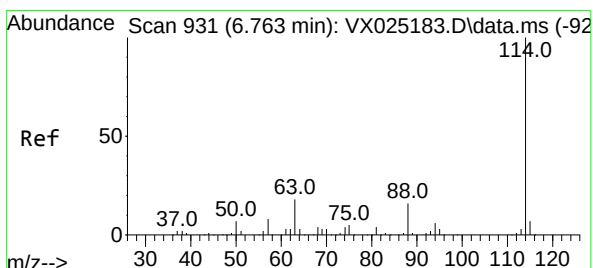
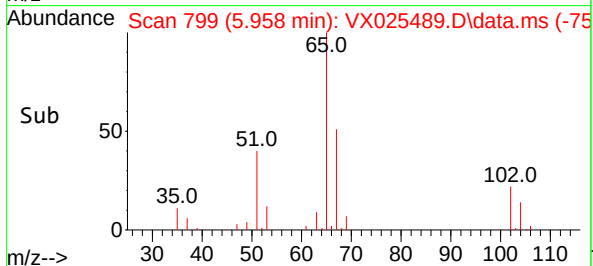
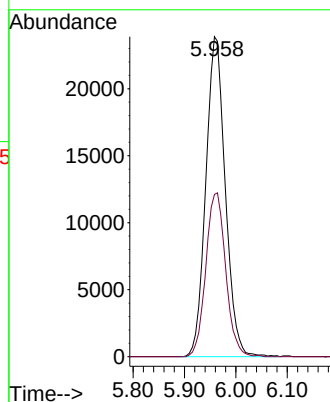
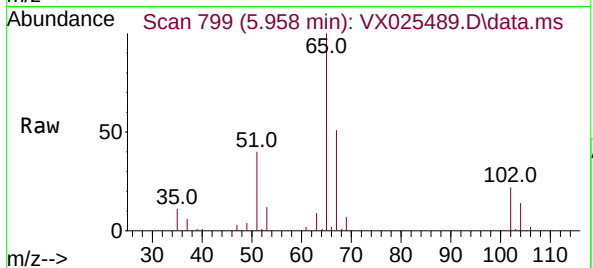




#33  
 1,2-Dichloroethane-d4  
 Concen: 57.731 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. 0.000 min  
 Lab File: VX025489.D  
 Acq: 03 Dec 2021 17:53

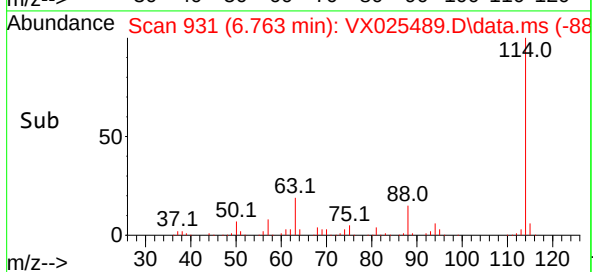
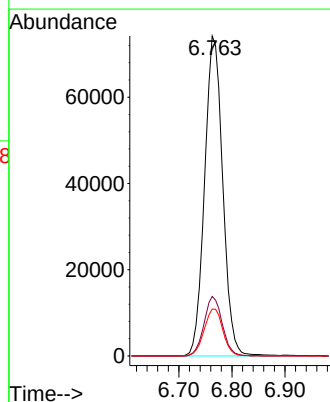
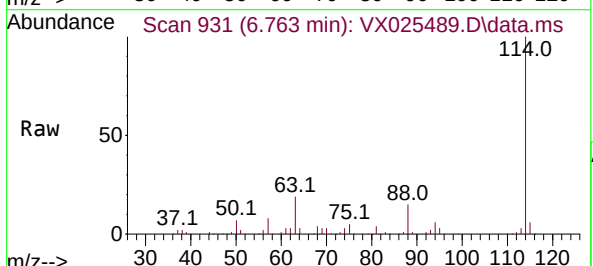
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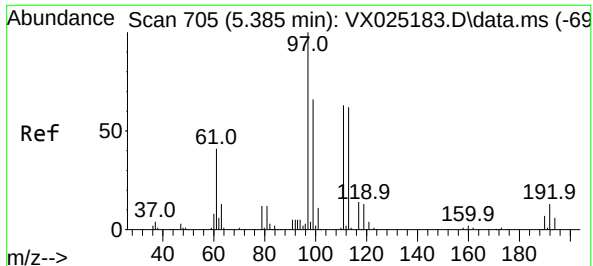
Tgt Ion: 65 Resp: 62864  
 Ion Ratio Lower Upper  
 65 100  
 67 52.2 0.0 101.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. -0.000 min  
 Lab File: VX025489.D  
 Acq: 03 Dec 2021 17:53

Tgt Ion: 114 Resp: 176437  
 Ion Ratio Lower Upper  
 114 100  
 63 18.6 0.0 41.0  
 88 14.6 0.0 34.8

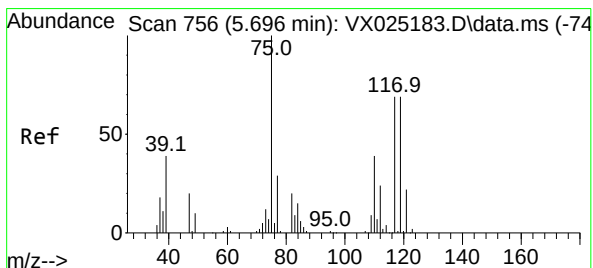
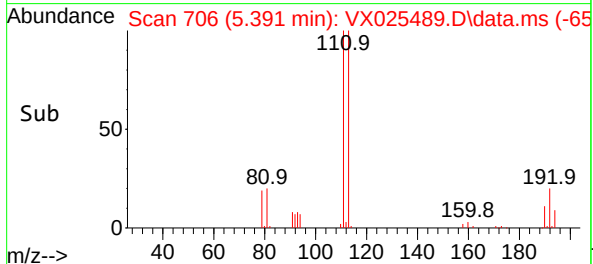
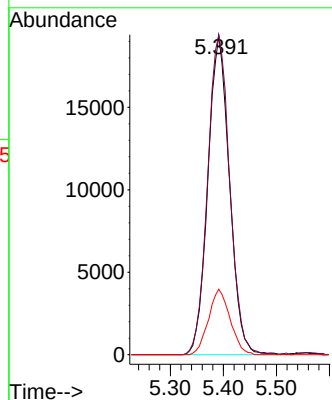
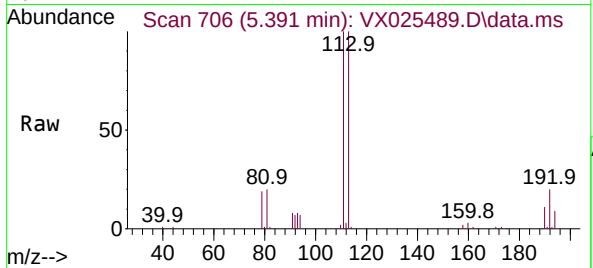




#35  
Dibromofluoromethane  
Concen: 50.515 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

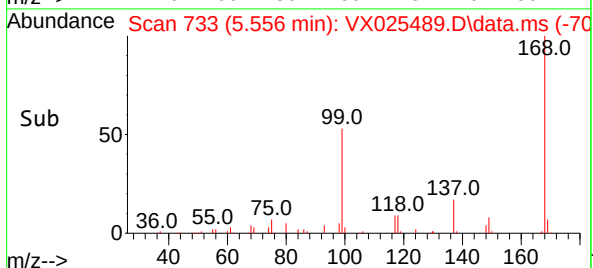
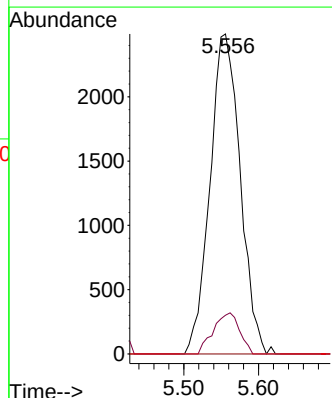
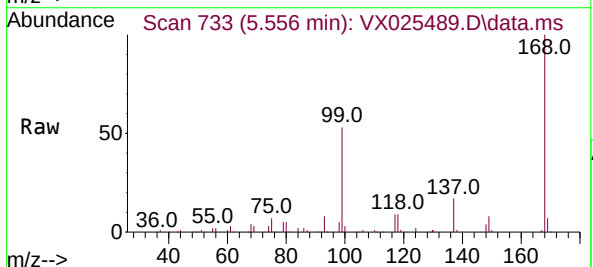
Instrument :  
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Tgt Ion:113 Resp: 54685  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.1 123.1  
192 20.5 15.6 23.4

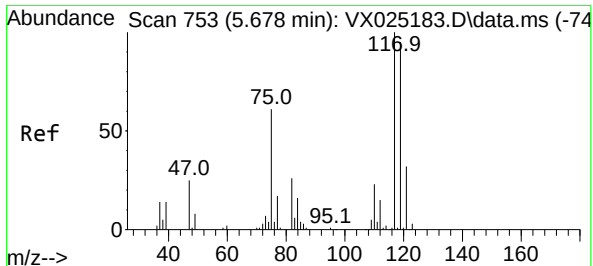


#36  
1,1-Dichloropropene  
Concen: 4.549 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.140 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

Tgt Ion: 75 Resp: 7003  
Ion Ratio Lower Upper  
75 100  
110 11.1 18.1 54.3#  
77 0.0 24.4 36.6#



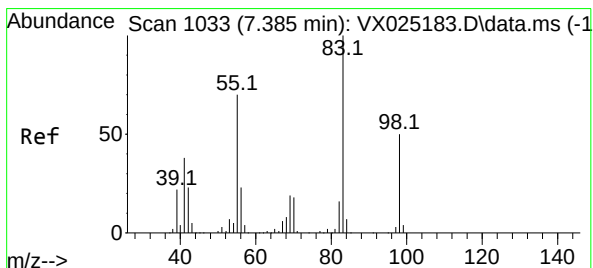
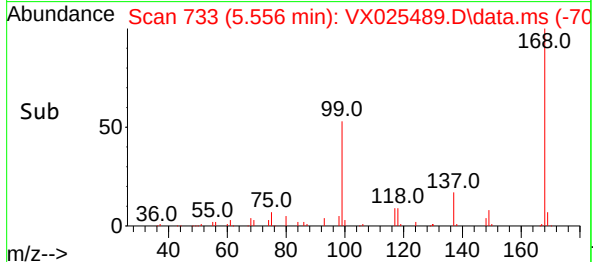
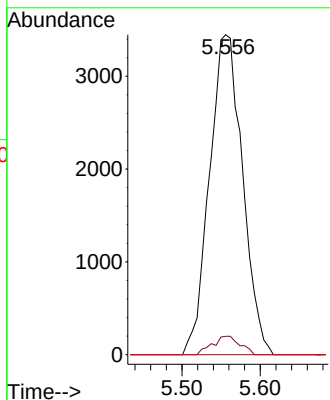
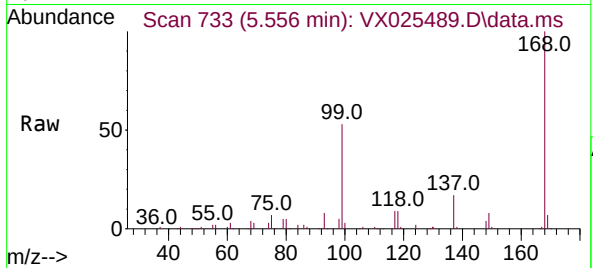




#38  
Carbon Tetrachloride  
Concen: 5.960 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

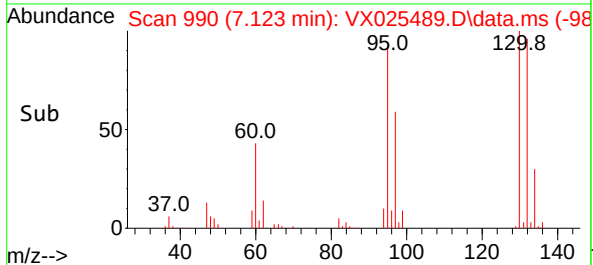
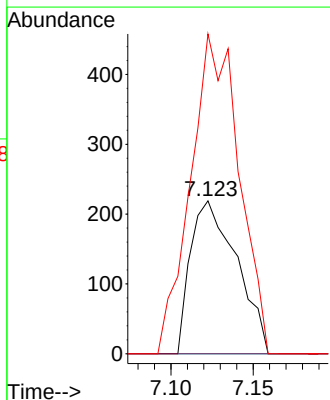
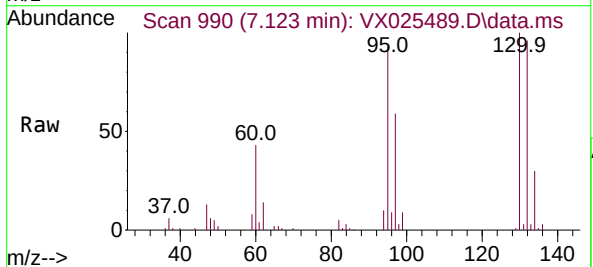
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20211202

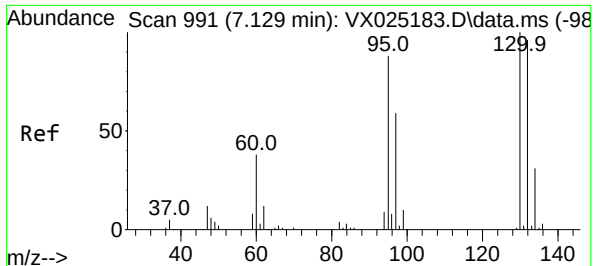
Tgt Ion:117 Resp: 10105  
Ion Ratio Lower Upper  
117 100  
119 5.8 75.6 113.4#  
121 0.0 23.7 35.5#



#39  
Methylcyclohexane  
Concen: 0.216 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.262 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

Tgt Ion: 83 Resp: 427  
Ion Ratio Lower Upper  
83 100  
55 0.0 60.8 91.2#  
98 209.1 37.0 55.4#

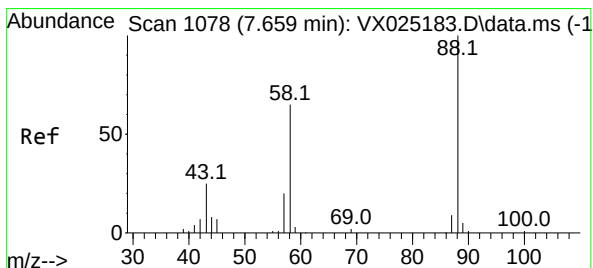
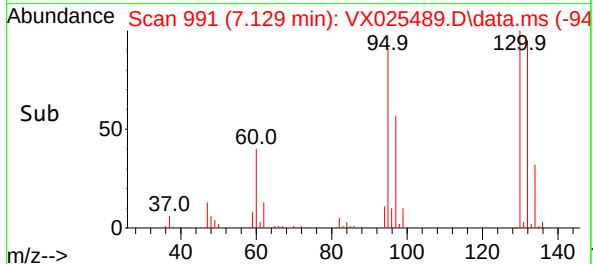
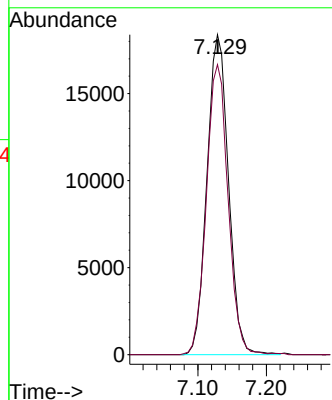
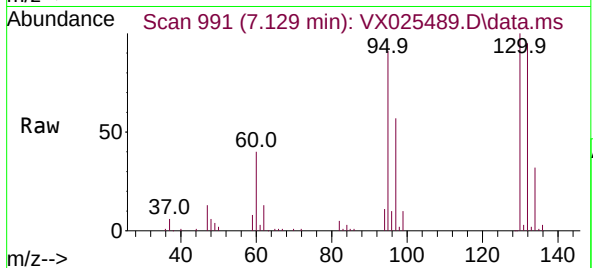




#44  
Trichloroethene  
Concen: 29.659 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

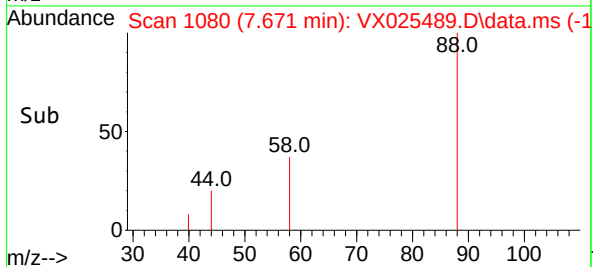
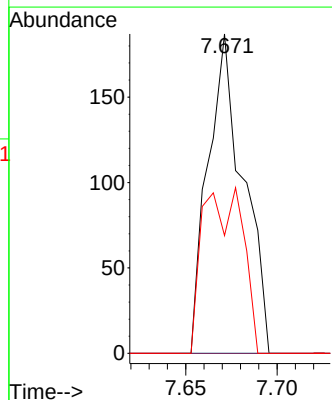
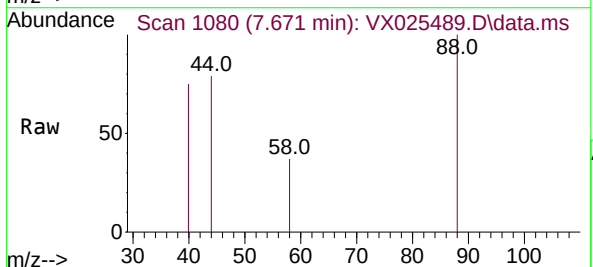
Instrument :  
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ClientSampleId :  
RE108D1-20211202

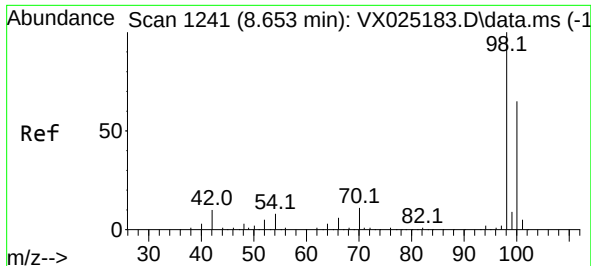
Tgt Ion:130 Resp: 40177  
Ion Ratio Lower Upper  
130 100  
95 90.6 0.0 196.8



#49  
1,4-Dioxane  
Concen: 8.724 ug/l  
RT: 7.671 min Scan# 1080  
Delta R.T. 0.012 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

Tgt Ion: 88 Resp: 252  
Ion Ratio Lower Upper  
88 100  
43 0.0 27.0 40.6#  
58 58.7 55.2 82.8

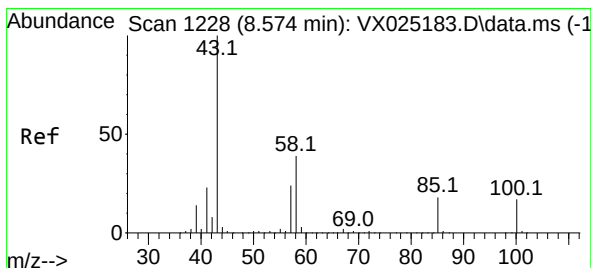
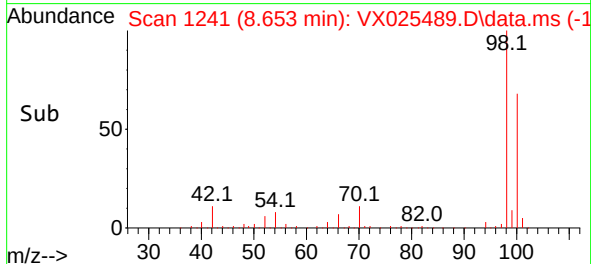
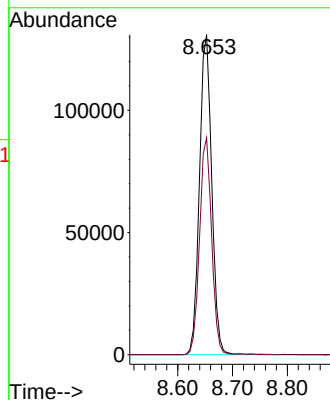
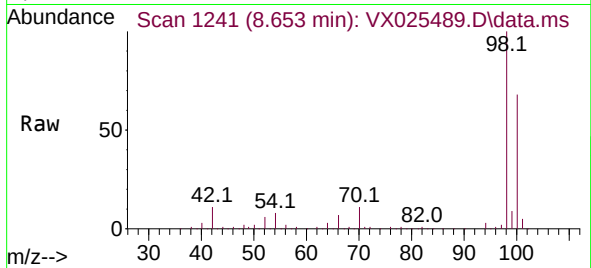




#50  
Toluene-d8  
Concen: 50.141 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

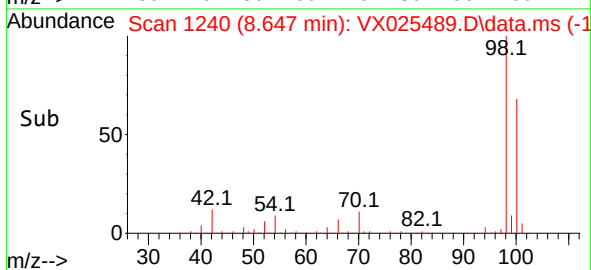
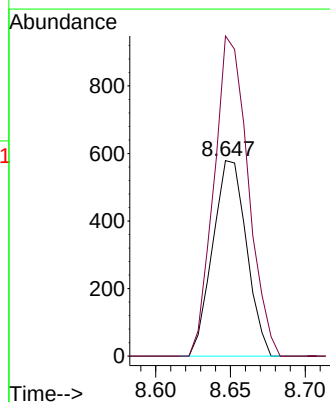
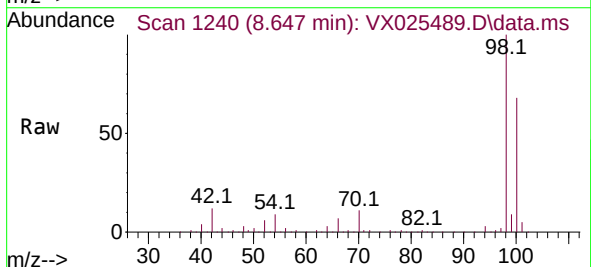
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20211202

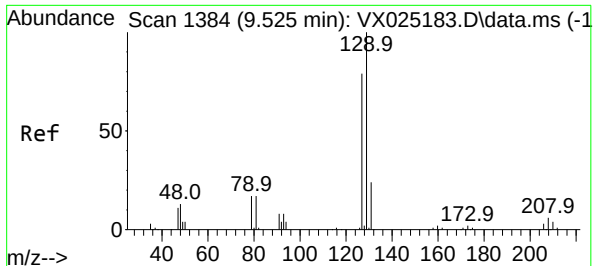
Tgt Ion: 98 Resp: 204089  
Ion Ratio Lower Upper  
98 100  
100 66.6 51.4 77.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.498 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.073 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

Tgt Ion: 43 Resp: 911  
Ion Ratio Lower Upper  
43 100  
58 165.3 30.9 46.3#

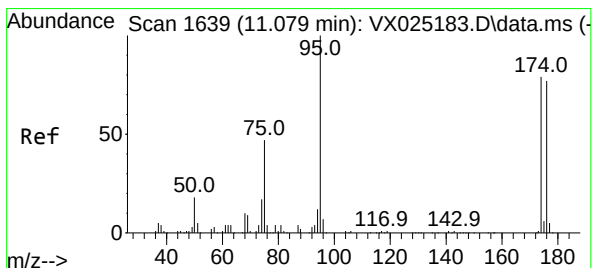
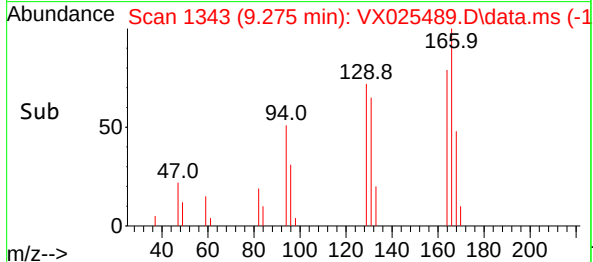
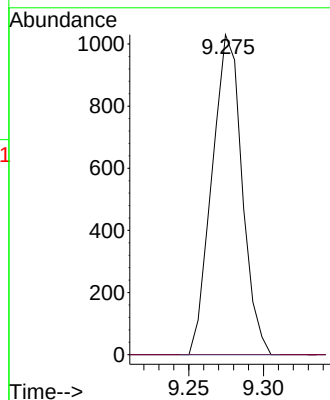
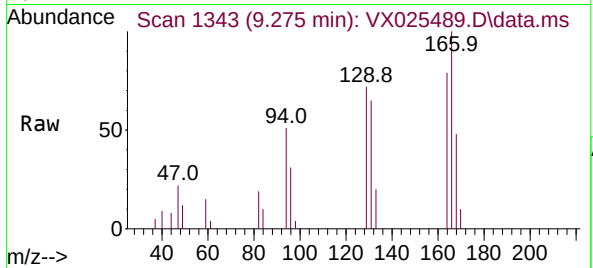




#60  
Dibromochloromethane  
Concen: 1.035 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.250 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

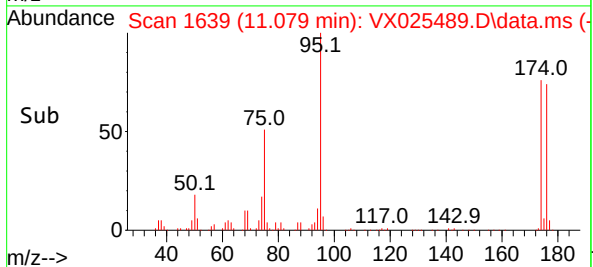
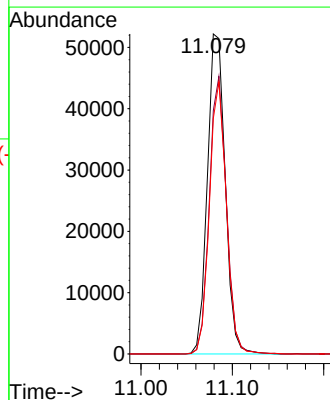
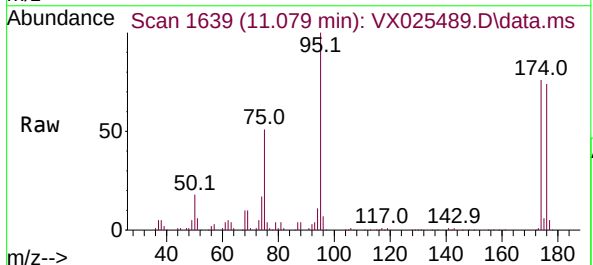
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20211202

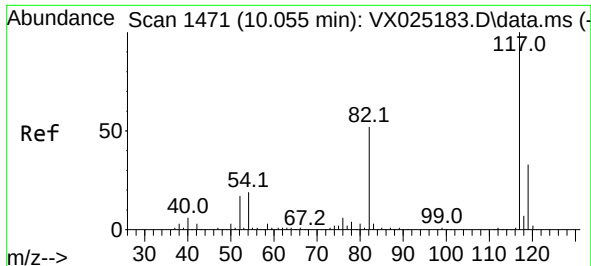
Tgt Ion:129 Resp: 1441  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.5 115.5#



#62  
4-Bromofluorobenzene  
Concen: 45.807 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

Tgt Ion: 95 Resp: 70535  
Ion Ratio Lower Upper  
95 100  
174 83.2 0.0 158.0  
176 81.0 0.0 153.6

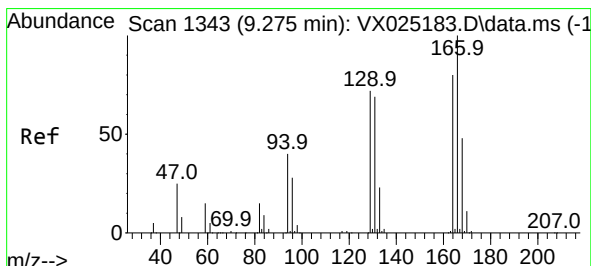
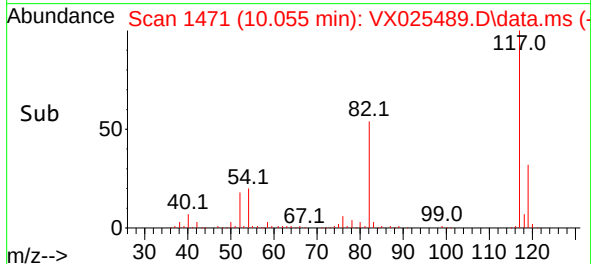
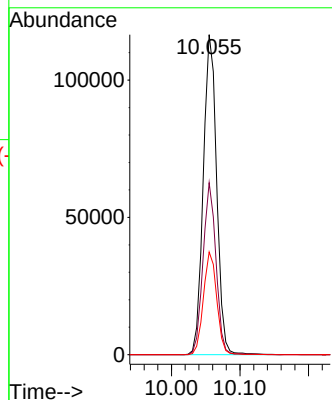
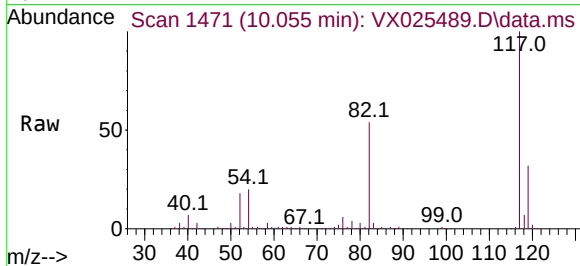




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

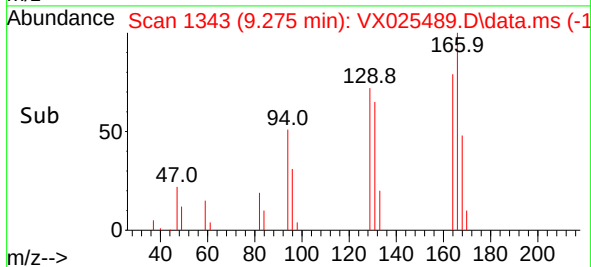
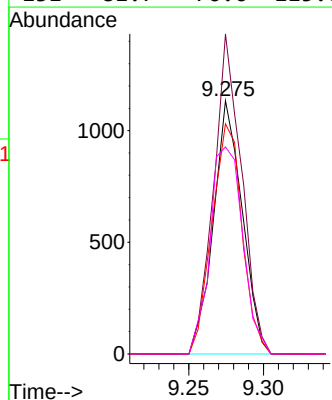
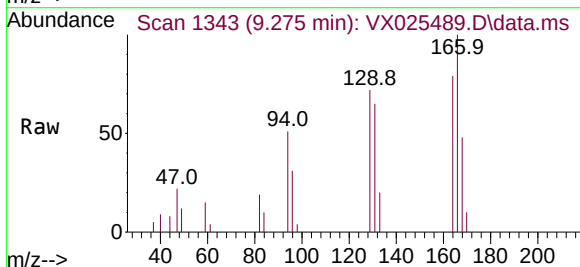
Instrument :  
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ClientSampleId :  
RE108D1-20211202

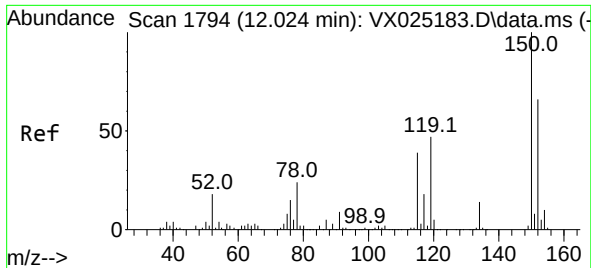
Tgt Ion:117 Resp: 158924  
Ion Ratio Lower Upper  
117 100  
82 53.8 44.6 67.0  
119 32.1 24.8 37.2



#64  
Tetrachloroethene  
Concen: 1.159 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.000 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

Tgt Ion:164 Resp: 1519  
Ion Ratio Lower Upper  
164 100  
166 126.4 103.2 154.8  
129 90.8 81.0 121.4  
131 81.7 76.6 115.0

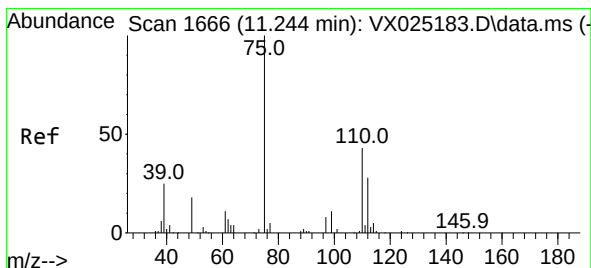
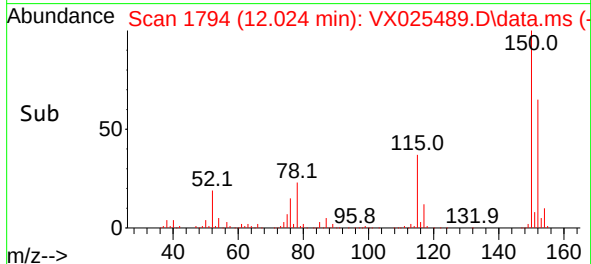
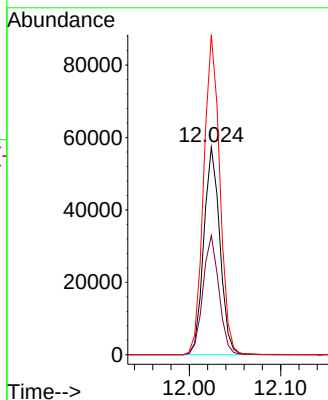
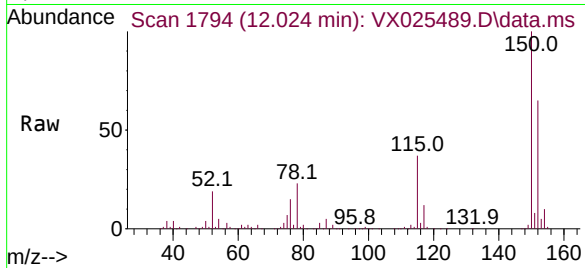




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX025489.D  
 Acq: 03 Dec 2021 17:53

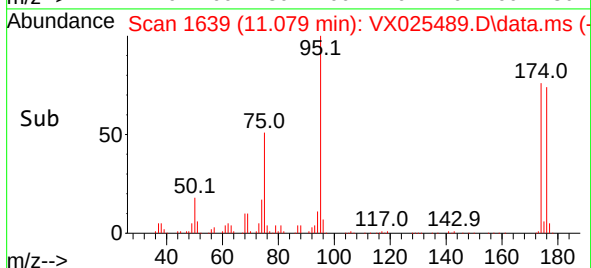
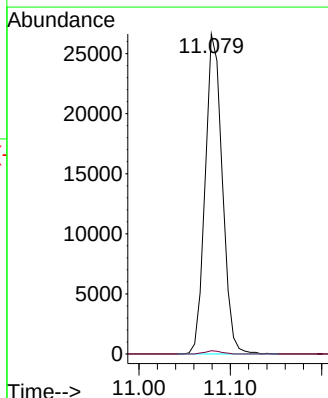
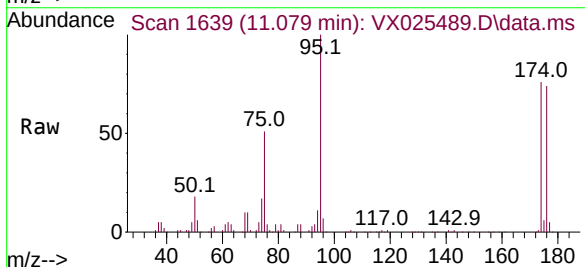
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE108D1-20211202

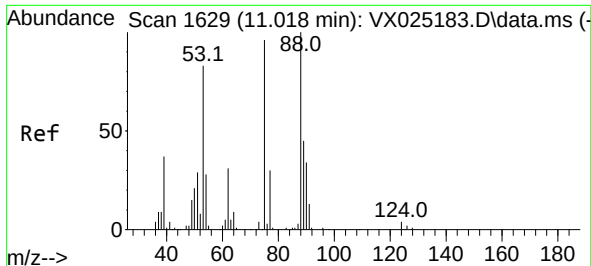
Tgt Ion:152 Resp: 69823  
 Ion Ratio Lower Upper  
 152 100  
 115 57.0 43.3 129.8  
 150 154.7 0.0 351.2



#76  
 1,2,3-Trichloropropane  
 Concen: 24.169 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.165 min  
 Lab File: VX025489.D  
 Acq: 03 Dec 2021 17:53

Tgt Ion: 75 Resp: 34557  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 20.0 59.9#

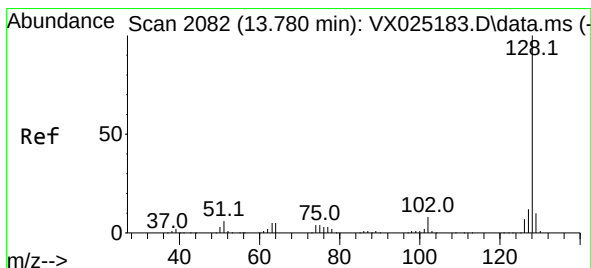
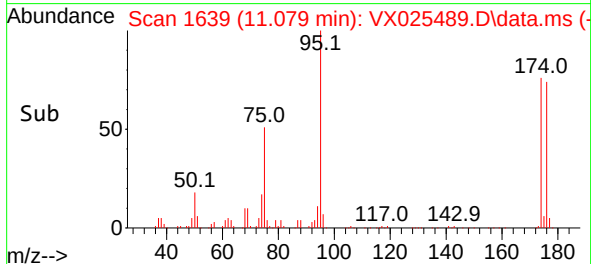
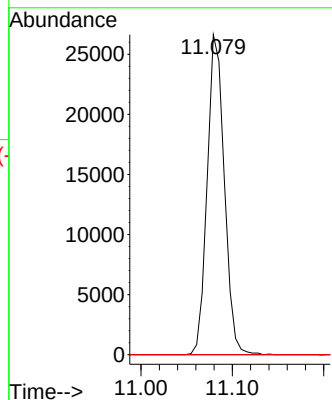
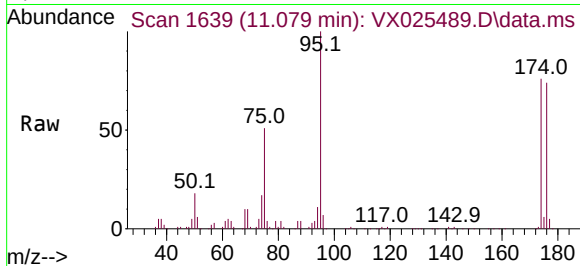




#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.885 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20211202

Tgt Ion: 75 Resp: 34557  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.9 122.9#  
89 0.0 38.2 57.2#



#95  
Naphthalene  
Concen: Below Cal  
RT: 13.780 min Scan# 2082  
Delta R.T. -0.000 min  
Lab File: VX025489.D  
Acq: 03 Dec 2021 17:53

Tgt Ion:128 Resp: 50  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

