

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX060322\  
 Data File : VX029205.D  
 Acq On : 03 Jun 2022 21:05  
 Operator : JC/MD  
 Sample : N3164-17  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

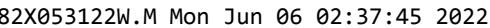
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 40BR-20220531

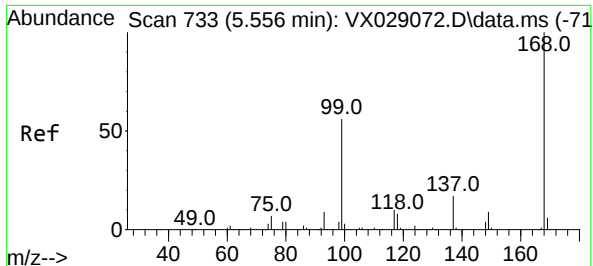
Quant Time: Jun 06 02:37:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X053122W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 01 04:45:42 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 316416   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 584617   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 565711   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 258235   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 207005   | 58.016    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 61 - 141 | Recovery  | =      | 116.040% |
| 35) Dibromofluoromethane      | 5.391  | 113   | 192895   | 49.675    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 69 - 133 | Recovery  | =      | 99.340%  |
| 50) Toluene-d8                | 8.653  | 98    | 691739   | 48.706    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 65 - 126 | Recovery  | =      | 97.420%  |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 270669   | 49.303    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 135 | Recovery  | =      | 98.600%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.166  | 85    | 6071     | 2.207     | ug/l   | 94       |
| 3) Chloromethane              | 1.294  | 50    | 680      | 0.236     | ug/l # | 87       |
| 4) Vinyl Chloride             | 1.374  | 62    | 111410   | 35.193    | ug/l   | 98       |
| 5) Bromomethane               | 1.611  | 94    | 688      | Below Cal | #      | 71       |
| 10) Methyl Iodide             | 2.465  | 142   | 266      | 4.295     | ug/l # | 89       |
| 11) Tert butyl alcohol        | 2.953  | 59    | 6122     | 7.407     | ug/l # | 72       |
| 12) 1,1-Dichloroethene        | 2.319  | 96    | 1355     | 0.475     | ug/l   | 94       |
| 14) Allyl chloride            | 2.544  | 41    | 2684     | 0.627     | ug/l # | 64       |
| 16) Acetone                   | 2.380  | 43    | 6157     | 4.382     | ug/l   | 100      |
| 18) Methyl Acetate            | 2.709  | 43    | 998      | 0.275     | ug/l # | 86       |
| 21) trans-1,2-Dichloroethene  | 3.099  | 96    | 3488     | 1.084     | ug/l   | 92       |
| 23) Vinyl Acetate             | 3.739  | 43    | 2499     | 0.349     | ug/l   | 96       |
| 25) 2-Butanone                | 4.715  | 43    | 449800   | 198.461   | ug/l # | 44       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 789563   | 205.780   | ug/l   | 86       |
| 29) Tetrahydrofuran           | 5.025  | 42    | 2684     | 1.847     | ug/l   | 92       |
| 31) Cyclohexane               | 5.556  | 56    | 5581     | 1.203     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 24323    | 4.868     | ug/l # | 49       |
| 37) Ethyl Acetate             | 4.715  | 43    | 451001   | 93.137    | ug/l   | 99       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 33150    | 5.805     | ug/l # | 15       |
| 41) Methacrylonitrile         | 5.013  | 41    | 551      | 0.211     | ug/l # | 18       |
| 44) Trichloroethene           | 7.135  | 130   | 8773     | 1.316     | ug/l   | 92       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 131802   | 25.178    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 131802   | 73.867    | ug/l # | 15       |
| -----                         |        |       |          |           |        |          |

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

Quant Time: Jun 06 02:37:40 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X053122W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 01 04:45:42 2022  
Response via : Initial Calibration

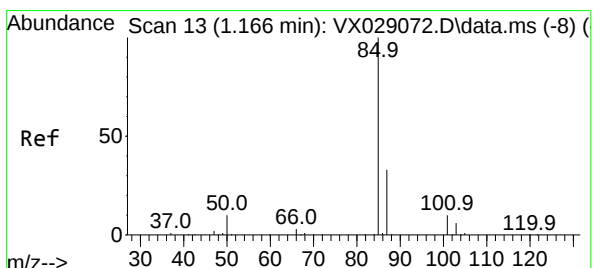
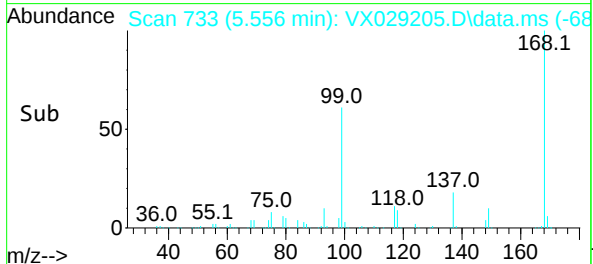
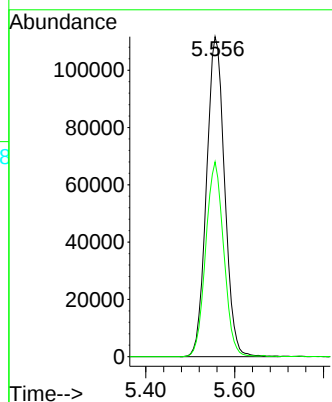
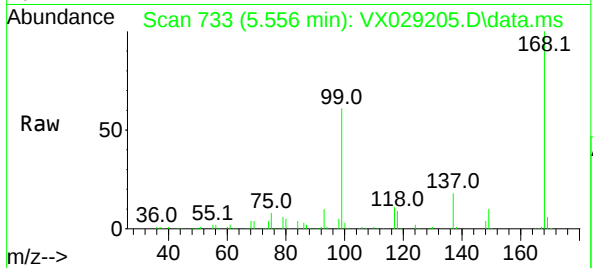




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

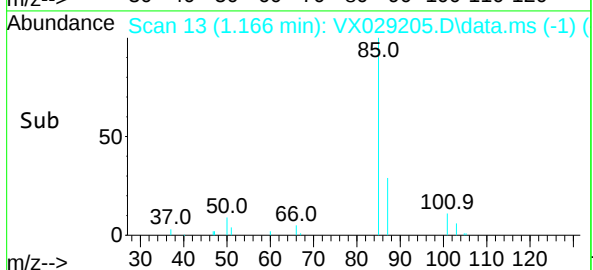
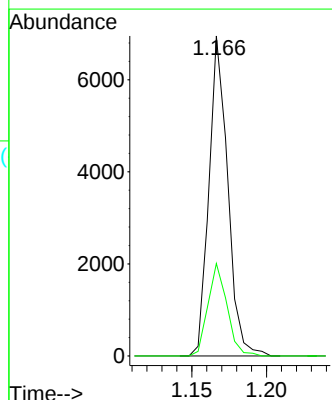
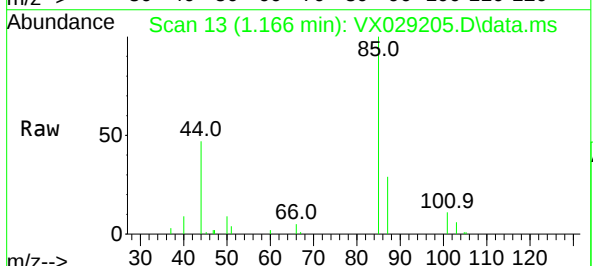
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MSVOA\_X  
ClientSampleId :  
40BR-20220531

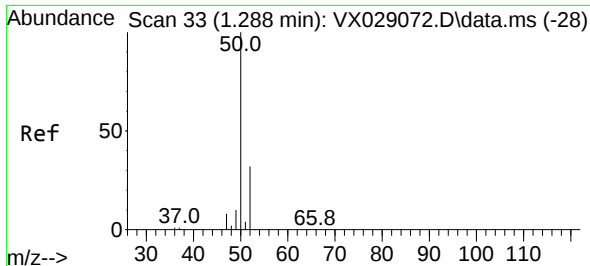
Tgt Ion:168 Resp: 316416  
Ion Ratio Lower Upper  
168 100  
99 60.9 41.7 62.5



#2  
Dichlorodifluoromethane  
Concen: 2.207 ug/l  
RT: 1.166 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

Tgt Ion: 85 Resp: 6071  
Ion Ratio Lower Upper  
85 100  
87 28.9 16.2 48.6

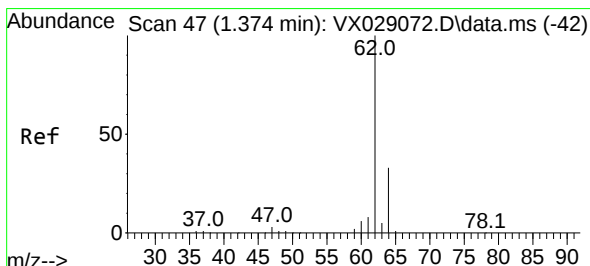
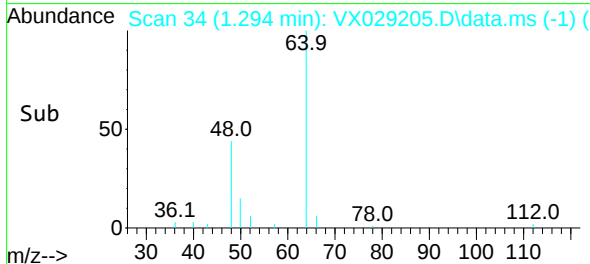
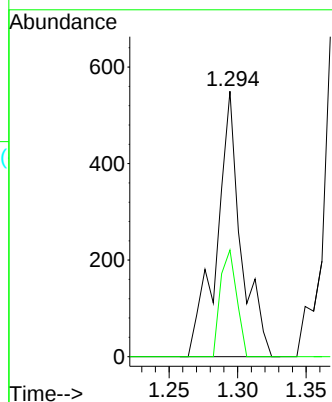
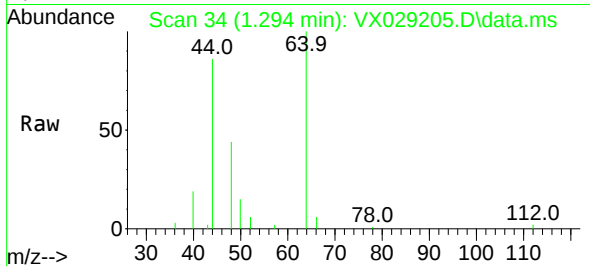




#3  
Chloromethane  
Concen: 0.236 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

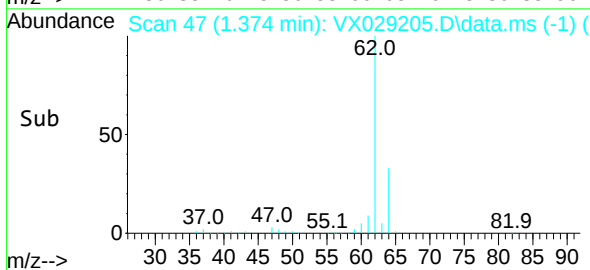
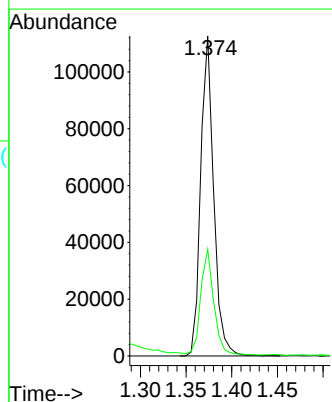
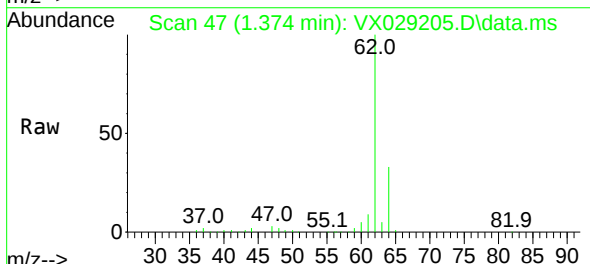
Instrument :  
MSVOA\_X  
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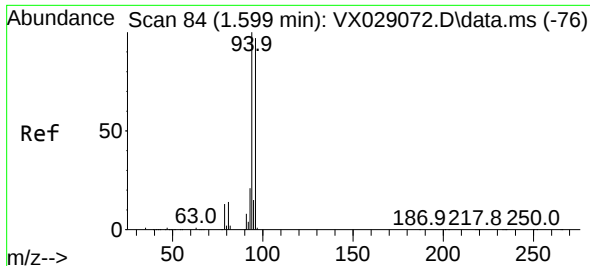
Tgt Ion: 50 Resp: 680  
Ion Ratio Lower Upper  
50 100  
52 40.2 26.4 39.6#



#4  
Vinyl Chloride  
Concen: 35.193 ug/l  
RT: 1.374 min Scan# 47  
Delta R.T. -0.000 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

Tgt Ion: 62 Resp: 111410  
Ion Ratio Lower Upper  
62 100  
64 32.9 25.5 38.3

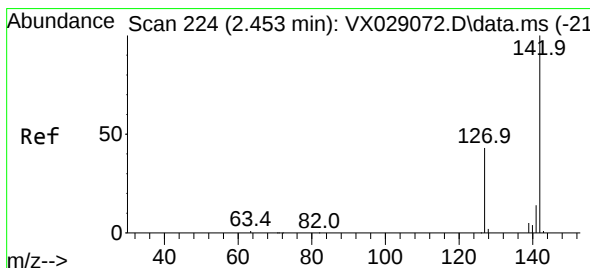
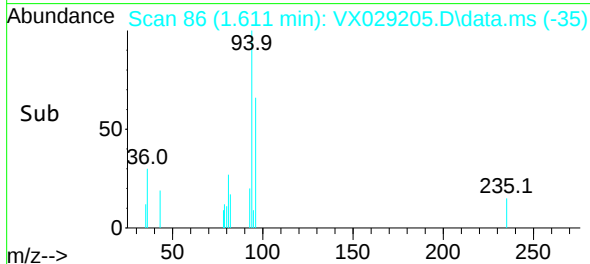
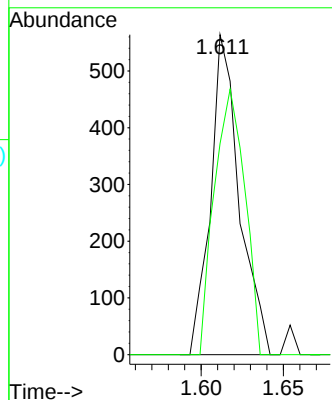
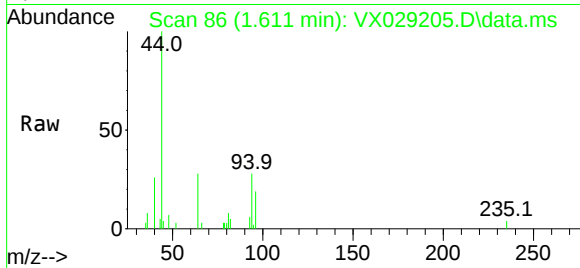




#5  
Bromomethane  
Concen: Below Cal  
RT: 1.611 min Scan# 80  
Delta R.T. 0.012 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

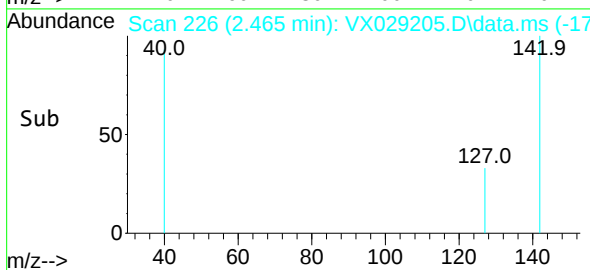
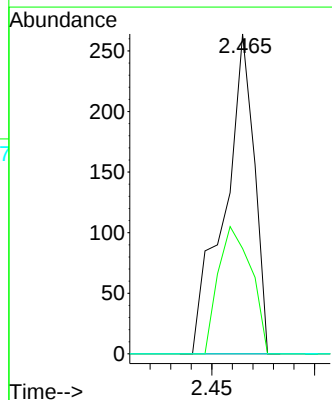
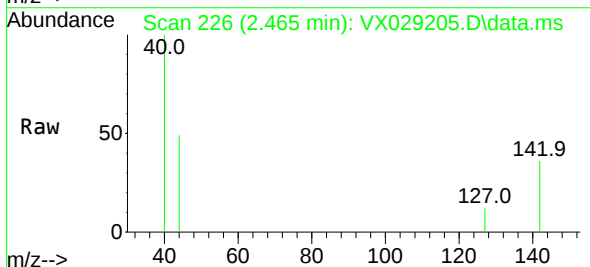
Instrument :  
MSVOA\_X  
ClientSampleId :  
40BR-20220531

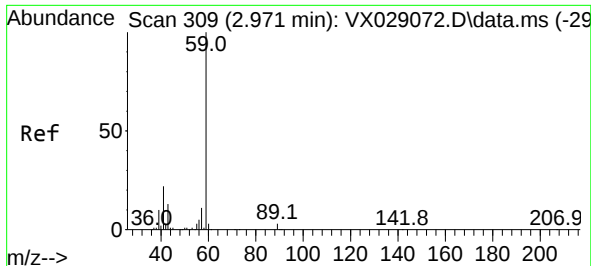
Tgt Ion: 94 Resp: 688  
Ion Ratio Lower Upper  
94 100  
96 66.0 75.3 112.9#



#10  
Methyl Iodide  
Concen: 4.295 ug/l  
RT: 2.465 min Scan# 226  
Delta R.T. 0.012 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

Tgt Ion: 142 Resp: 266  
Ion Ratio Lower Upper  
142 100  
127 44.0 33.9 50.9  
141 0.0 11.4 17.2#

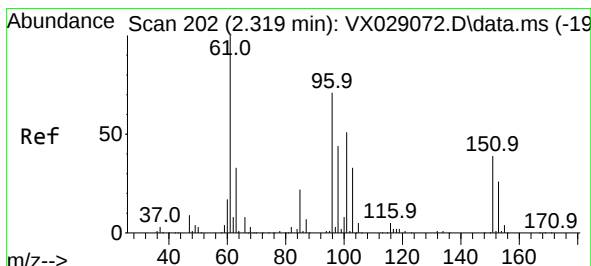
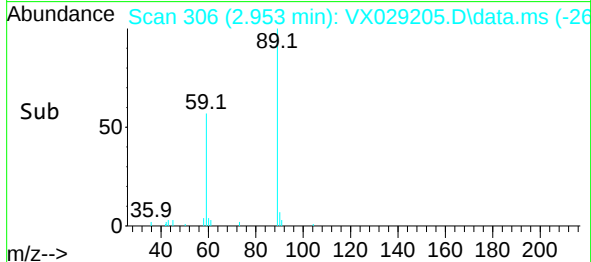
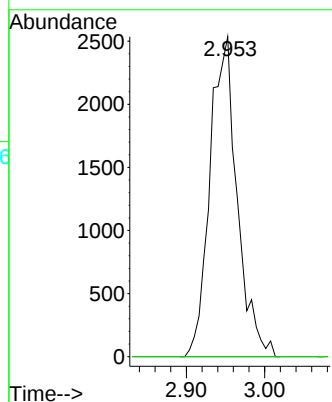
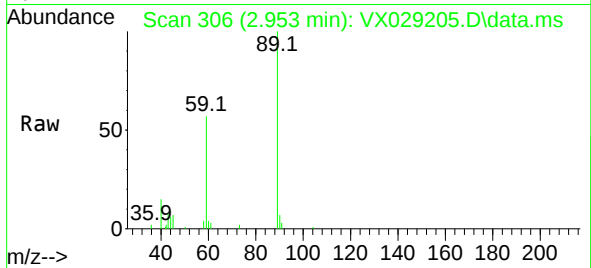




#11  
Tert butyl alcohol  
Concen: 7.407 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.018 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

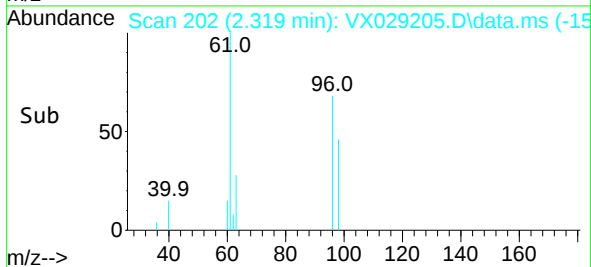
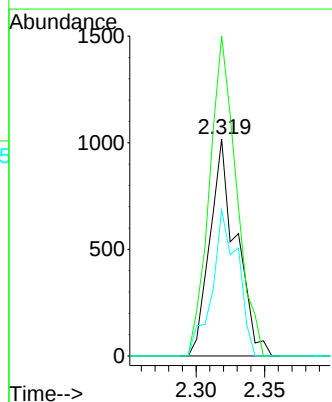
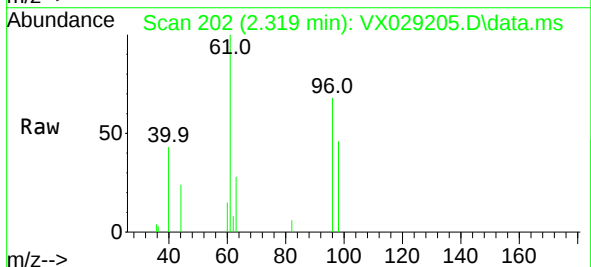
Instrument :  
MSVOA\_X  
ClientSampleId :  
40BR-20220531

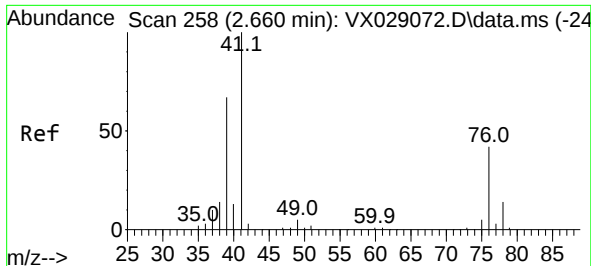
Tgt Ion: 59 Resp: 6122  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#12  
1,1-Dichloroethene  
Concen: 0.475 ug/l  
RT: 2.319 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

Tgt Ion: 96 Resp: 1355  
Ion Ratio Lower Upper  
96 100  
61 147.4 124.6 187.0  
98 67.3 51.0 76.4

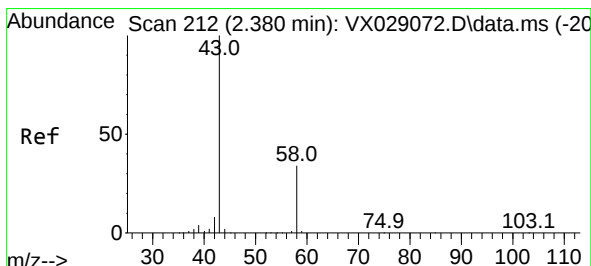
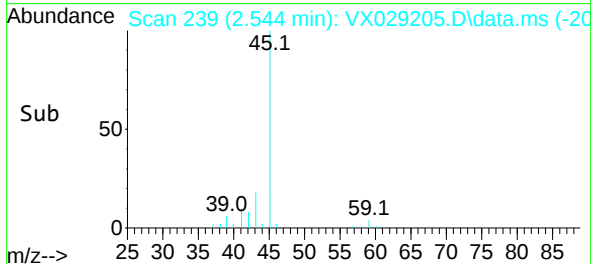
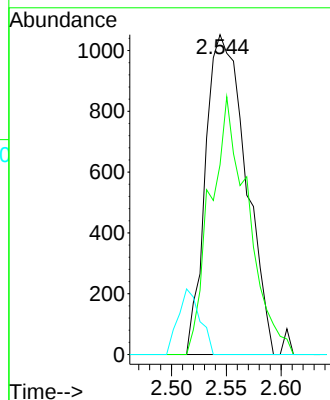
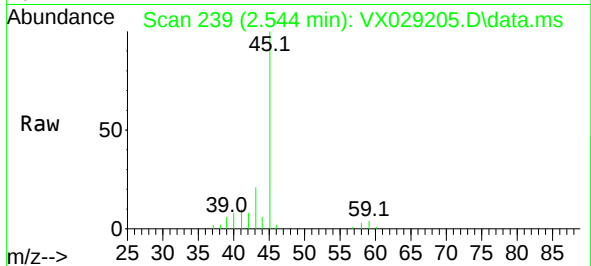




#14  
 Allyl chloride  
 Concen: 0.627 ug/l  
 RT: 2.544 min Scan# 21  
 Delta R.T. -0.116 min  
 Lab File: VX029205.D  
 Acq: 03 Jun 2022 21:05

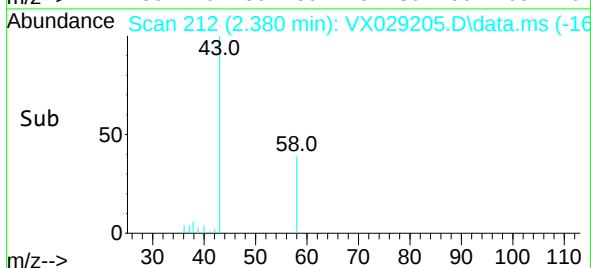
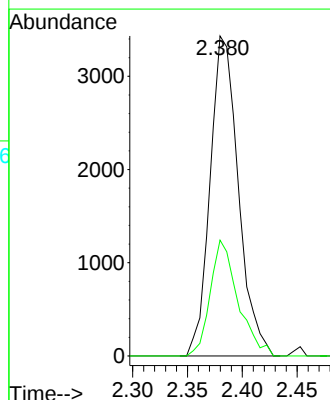
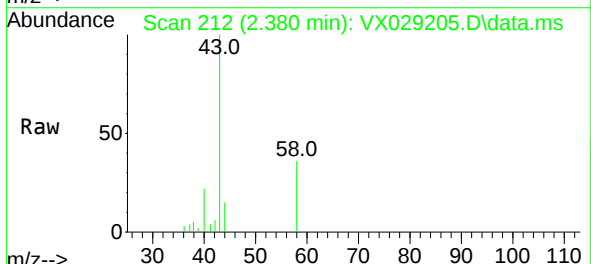
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 40BR-20220531

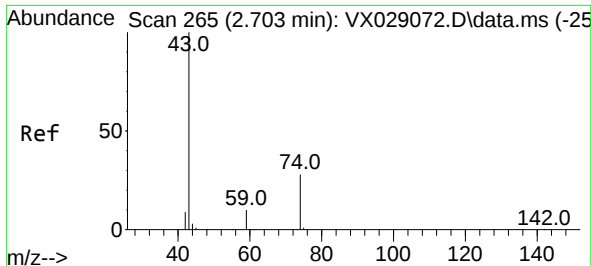
Tgt Ion: 41 Resp: 2684  
 Ion Ratio Lower Upper  
 41 100  
 39 75.6 50.4 75.6  
 76 0.0 32.7 49.1#



#16  
 Acetone  
 Concen: 4.382 ug/l  
 RT: 2.380 min Scan# 212  
 Delta R.T. -0.000 min  
 Lab File: VX029205.D  
 Acq: 03 Jun 2022 21:05

Tgt Ion: 43 Resp: 6157  
 Ion Ratio Lower Upper  
 43 100  
 58 36.2 28.8 43.2

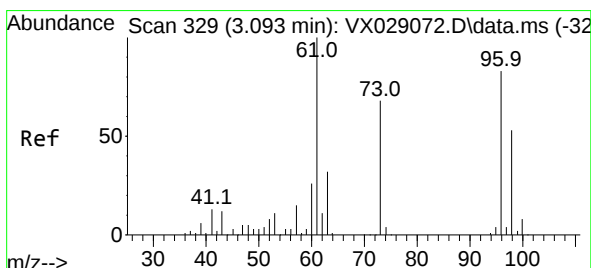
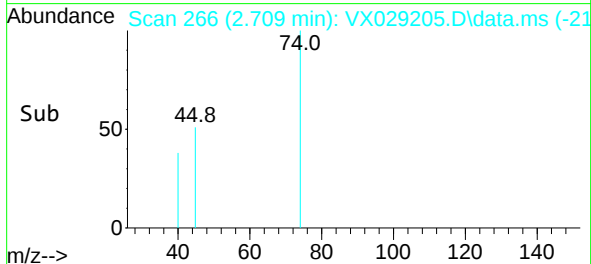
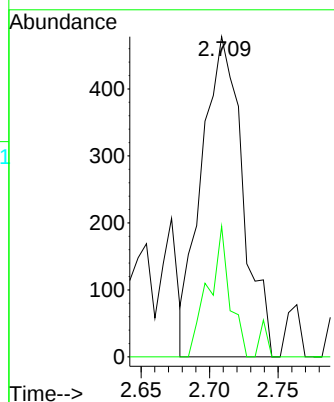
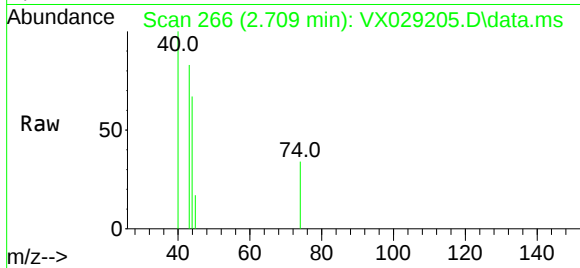




#18  
Methyl Acetate  
Concen: 0.275 ug/l  
RT: 2.709 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

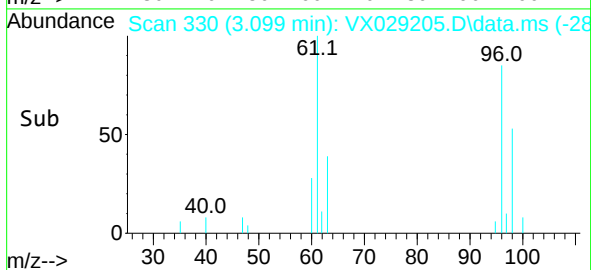
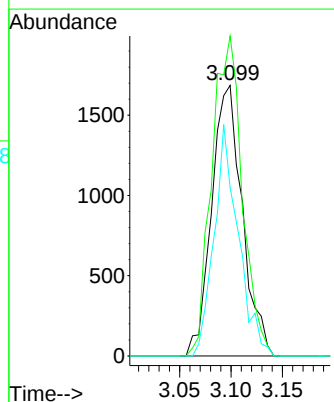
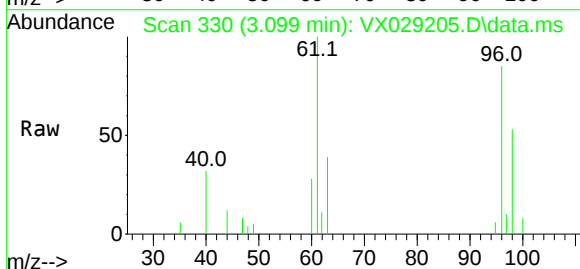
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MSVOA\_X  
ClientSampleId :  
40BR-20220531

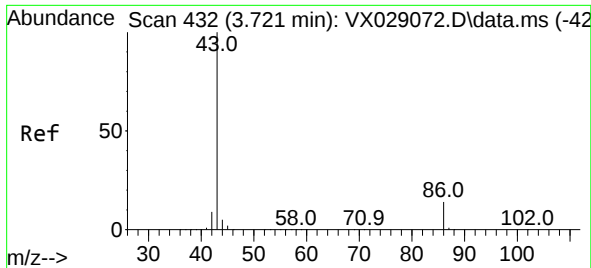
Tgt Ion: 43 Resp: 998  
Ion Ratio Lower Upper  
43 100  
74 21.2 22.8 34.2#



#21  
trans-1,2-Dichloroethene  
Concen: 1.084 ug/l  
RT: 3.099 min Scan# 330  
Delta R.T. 0.006 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

Tgt Ion: 96 Resp: 3488  
Ion Ratio Lower Upper  
96 100  
61 118.3 105.4 158.2  
98 62.2 50.0 75.0

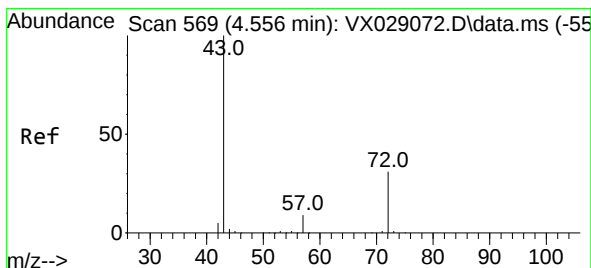
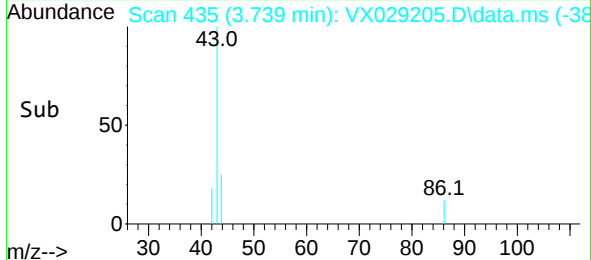
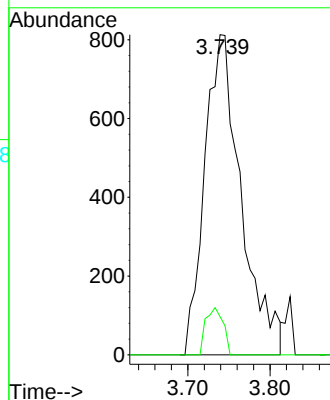
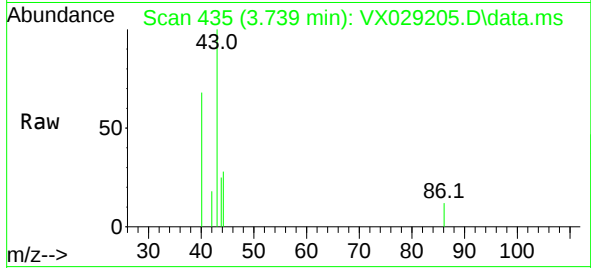




#23  
 Vinyl Acetate  
 Concen: 0.349 ug/l  
 RT: 3.739 min Scan# 41  
 Delta R.T. 0.018 min  
 Lab File: VX029205.D  
 Acq: 03 Jun 2022 21:05

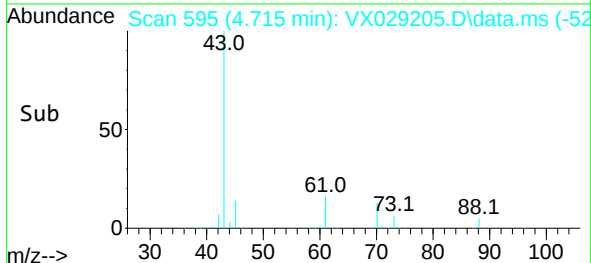
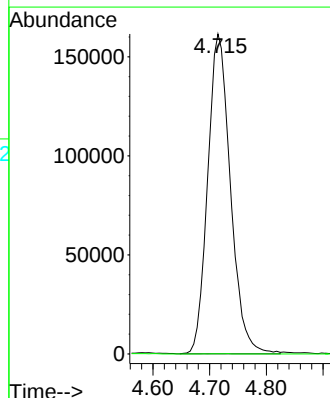
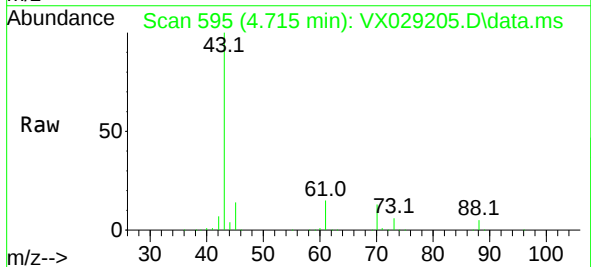
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 40BR-20220531

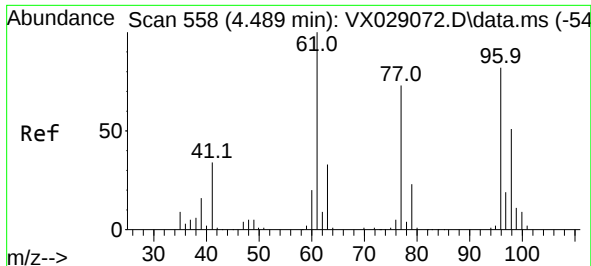
Tgt Ion: 43 Resp: 2499  
 Ion Ratio Lower Upper  
 43 100  
 86 11.9 10.8 16.2



#25  
 2-Butanone  
 Concen: 198.461 ug/l  
 RT: 4.715 min Scan# 595  
 Delta R.T. 0.159 min  
 Lab File: VX029205.D  
 Acq: 03 Jun 2022 21:05

Tgt Ion: 43 Resp: 449800  
 Ion Ratio Lower Upper  
 43 100  
 72 0.1 24.4 36.6#



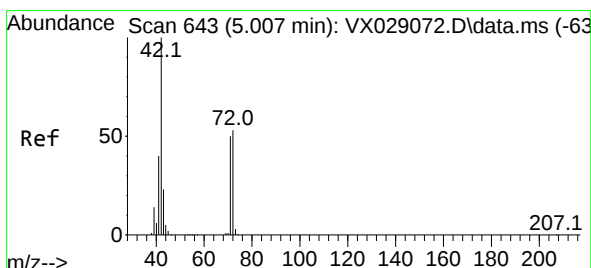
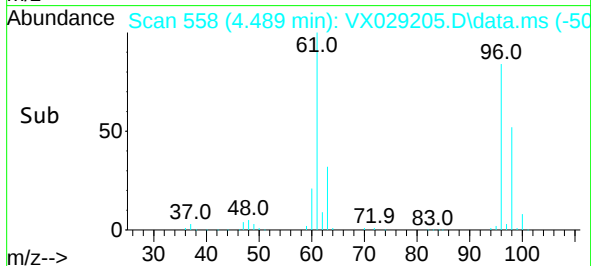
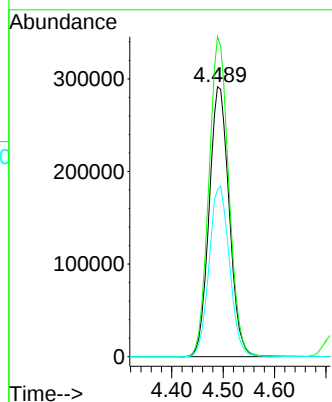
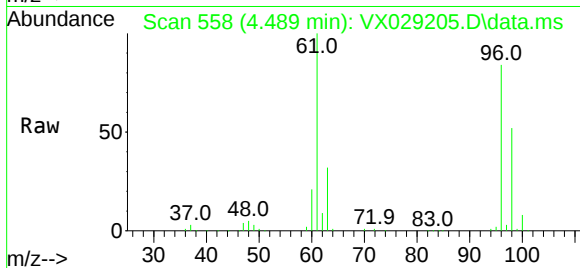


#27  
 cis-1,2-Dichloroethene  
 Concen: 205.780 ug/l  
 RT: 4.489 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VX029205.D  
 Acq: 03 Jun 2022 21:05

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 40BR-20220531

Tgt Ion: 96 Resp: 789563  

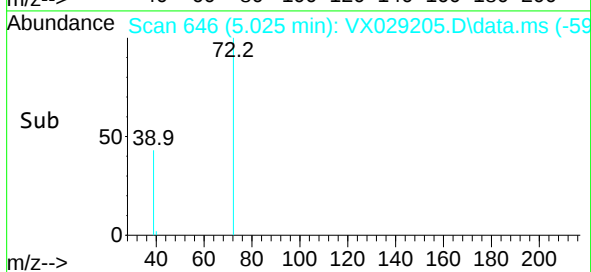
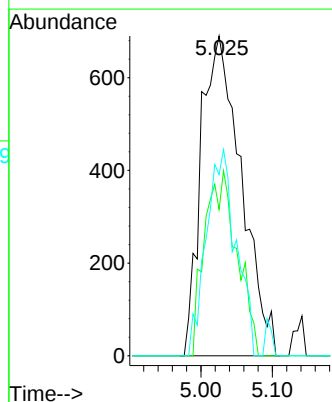
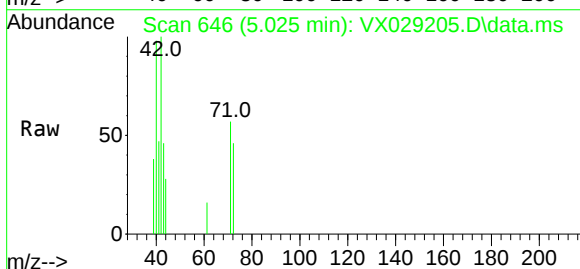
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 117.9 | 0.0   | 283.8 |
| 98  | 64.3  | 0.0   | 129.8 |

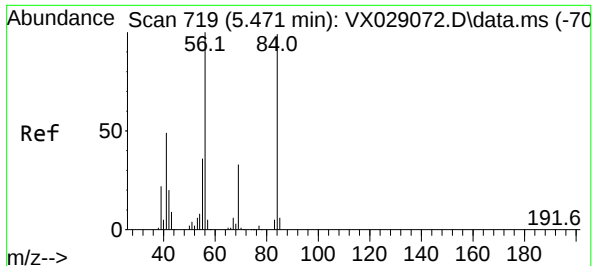


#29  
 Tetrahydrofuran  
 Concen: 1.847 ug/l  
 RT: 5.025 min Scan# 646  
 Delta R.T. 0.018 min  
 Lab File: VX029205.D  
 Acq: 03 Jun 2022 21:05

Tgt Ion: 42 Resp: 2684  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 46.8  | 44.1  | 66.1  |
| 71  | 47.9  | 40.5  | 60.7  |

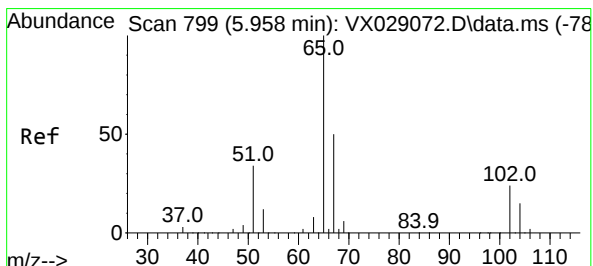
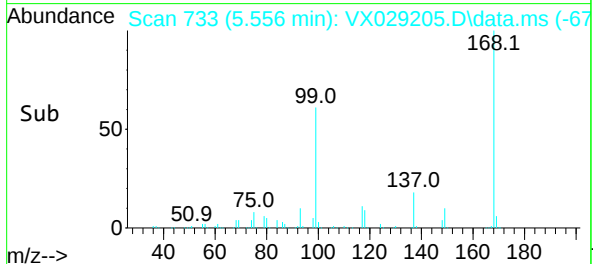
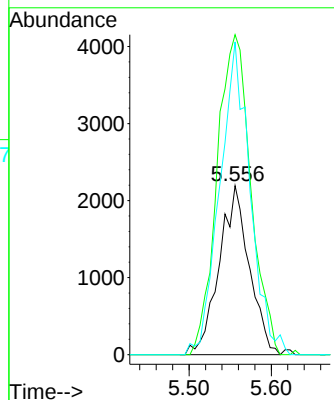
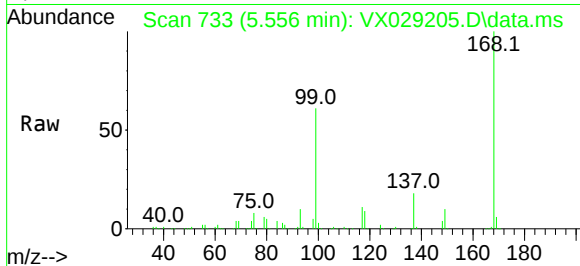




#31  
Cyclohexane  
Concen: 1.203 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.085 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

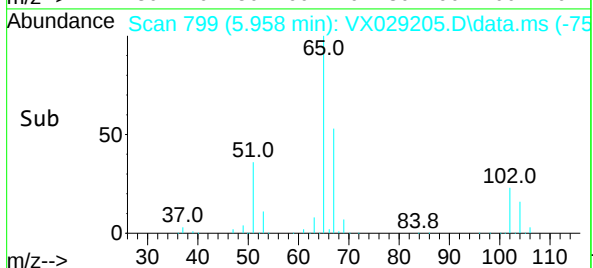
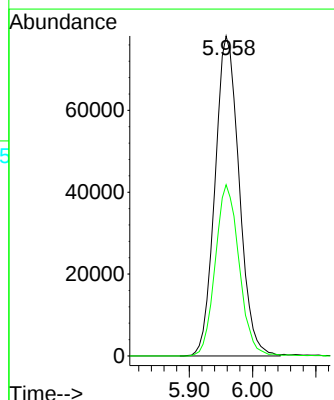
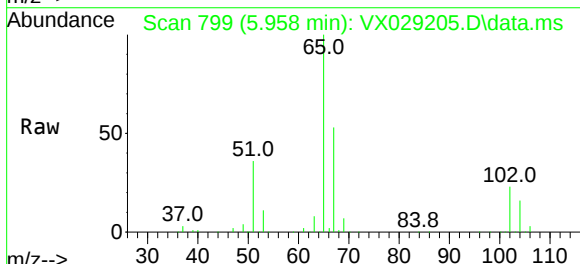
Instrument :  
MSVOA\_X  
ClientSampleId :  
40BR-20220531

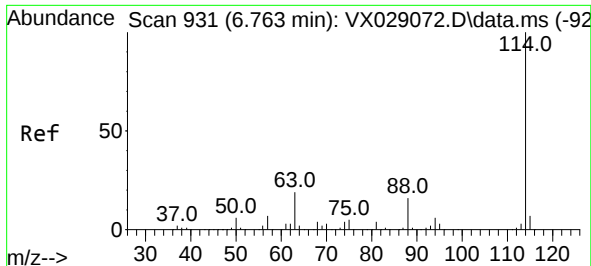
Tgt Ion: 56 Resp: 5581  
Ion Ratio Lower Upper  
56 100  
69 189.4 26.7 40.1#  
84 185.2 77.2 115.8#



#33  
1,2-Dichloroethane-d4  
Concen: 58.016 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

Tgt Ion: 65 Resp: 207005  
Ion Ratio Lower Upper  
65 100  
67 52.8 0.0 107.4

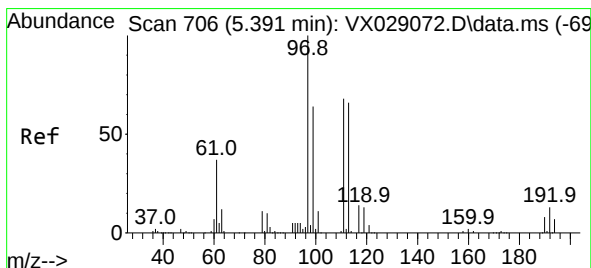
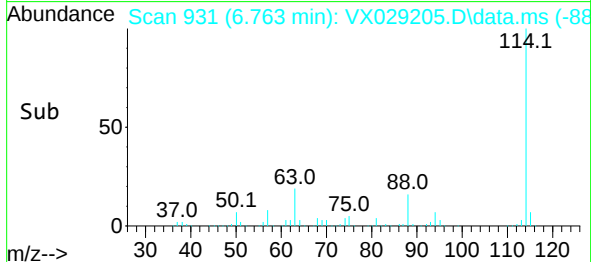
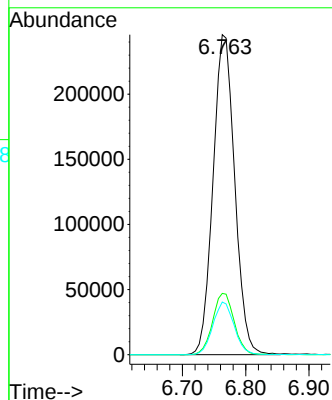
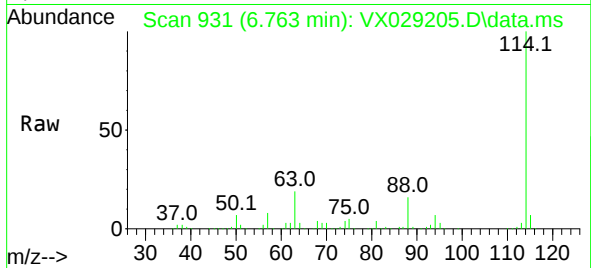




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

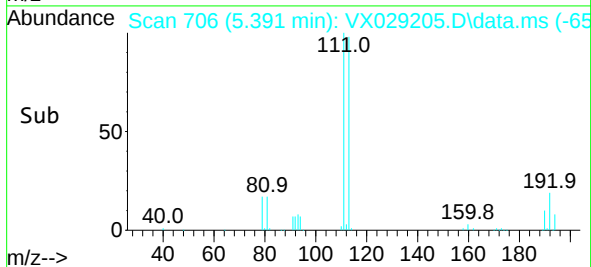
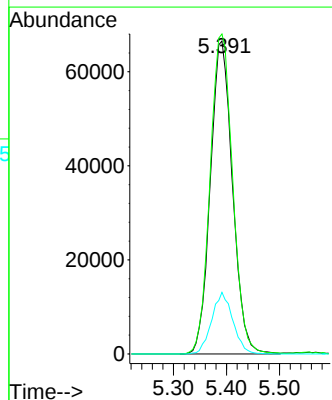
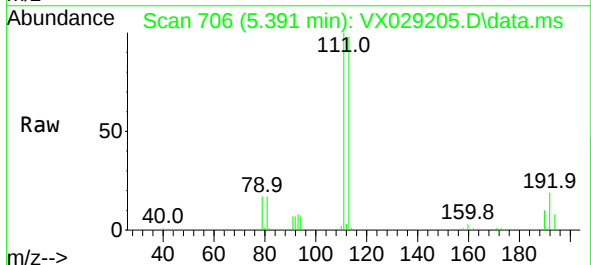
Instrument :  
MSVOA\_X  
ClientSampleId :  
40BR-20220531

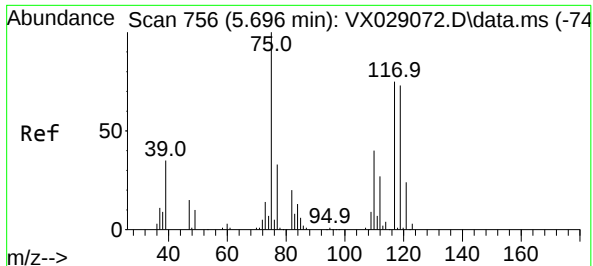
Tgt Ion:114 Resp: 584617  
Ion Ratio Lower Upper  
114 100  
63 19.2 0.0 36.8  
88 16.5 0.0 32.4



#35  
Dibromofluoromethane  
Concen: 49.675 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

Tgt Ion:113 Resp: 192895  
Ion Ratio Lower Upper  
113 100  
111 104.4 82.8 124.2  
192 18.8 16.9 25.3

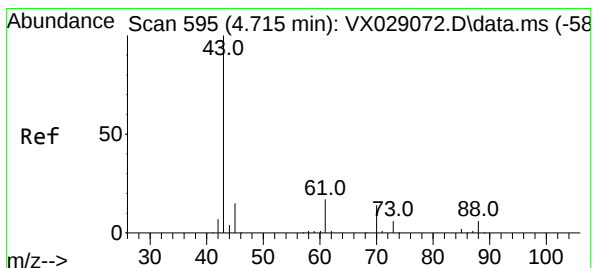
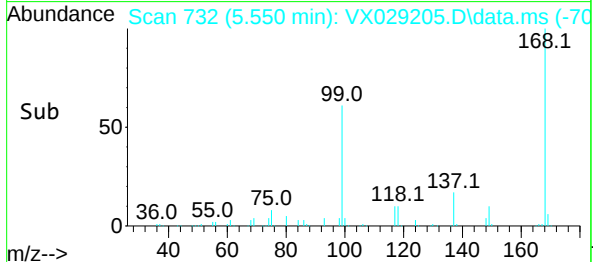
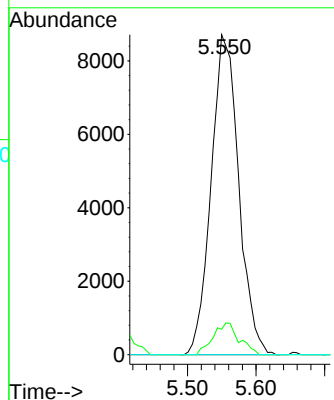
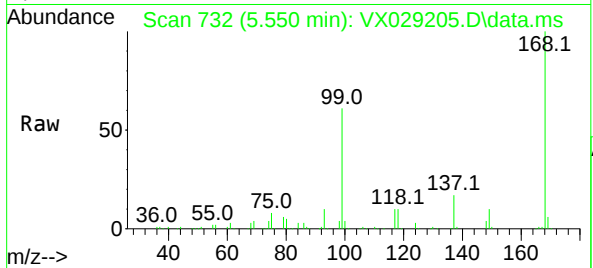




#36  
1,1-Dichloropropene  
Concen: 4.868 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

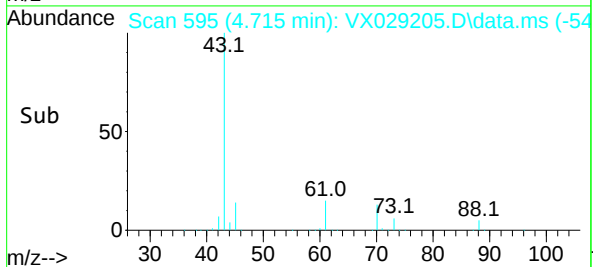
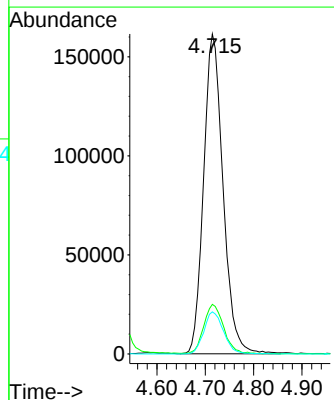
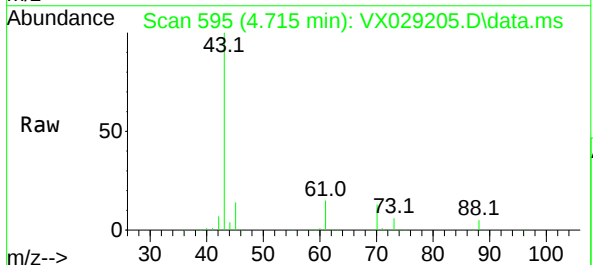
Instrument :  
MSVOA\_X  
ClientSampleId :  
40BR-20220531

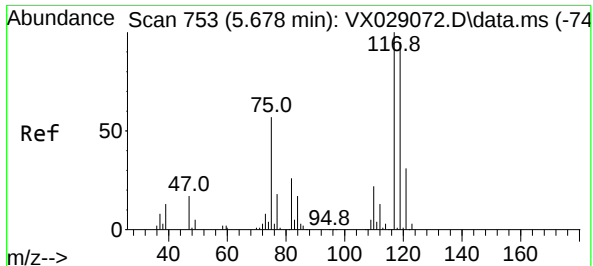
Tgt Ion: 75 Resp: 24323  
Ion Ratio Lower Upper  
75 100  
110 9.4 18.3 54.8#  
77 0.0 24.8 37.2#



#37  
Ethyl Acetate  
Concen: 93.137 ug/l  
RT: 4.715 min Scan# 595  
Delta R.T. -0.000 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

Tgt Ion: 43 Resp: 451001  
Ion Ratio Lower Upper  
43 100  
61 15.8 12.6 19.0  
70 13.4 10.2 15.2

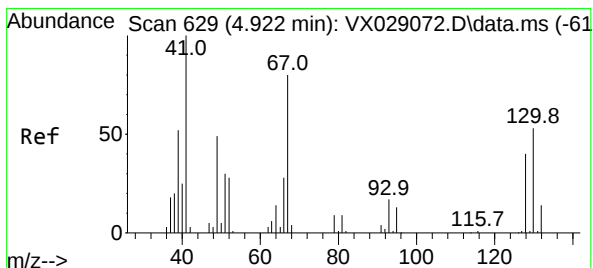
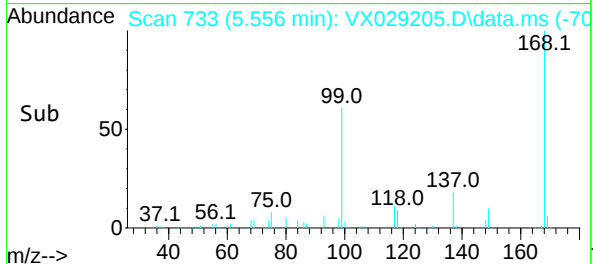
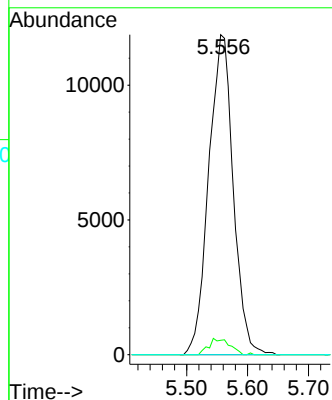
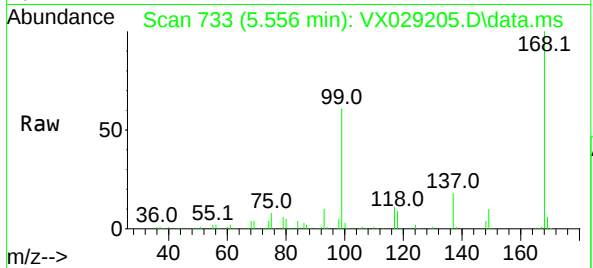




#38  
Carbon Tetrachloride  
Concen: 5.805 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

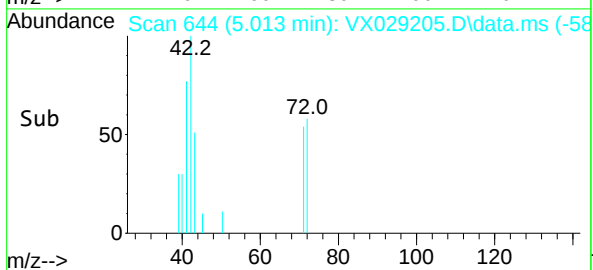
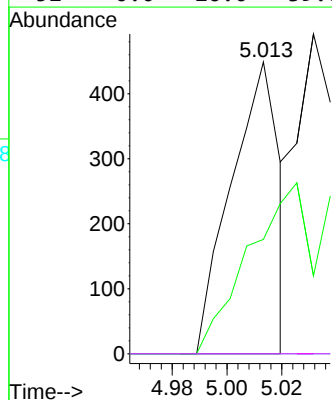
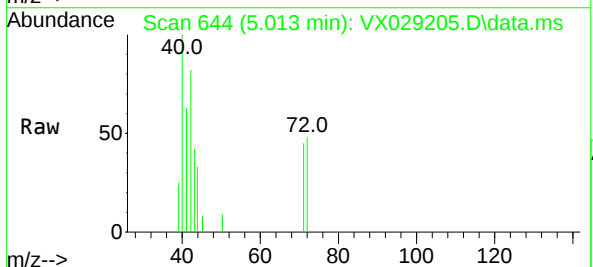
Instrument :  
MSVOA\_X  
ClientSampleId :  
40BR-20220531

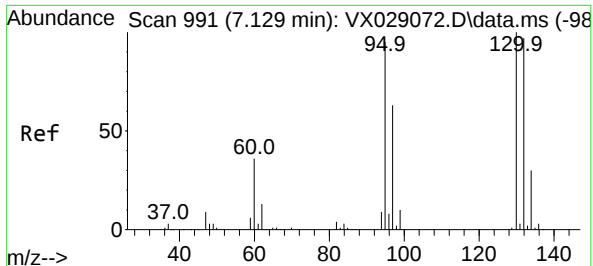
Tgt Ion:117 Resp: 33150  
Ion Ratio Lower Upper  
117 100  
119 4.5 77.3 115.9#  
121 0.0 24.2 36.2#



#41  
Methacrylonitrile  
Concen: 0.211 ug/l  
RT: 5.013 min Scan# 644  
Delta R.T. 0.091 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

Tgt Ion: 41 Resp: 551  
Ion Ratio Lower Upper  
41 100  
39 0.0 43.0 64.4#  
67 0.0 70.2 105.4#  
52 0.0 26.0 39.0#

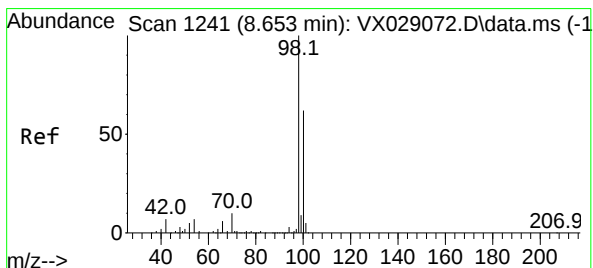
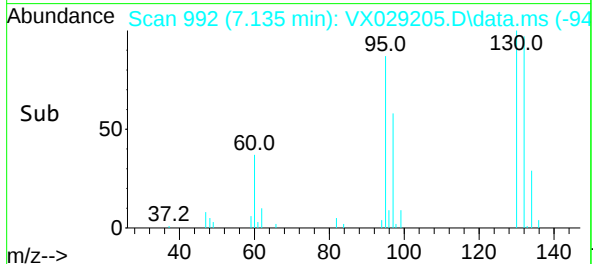
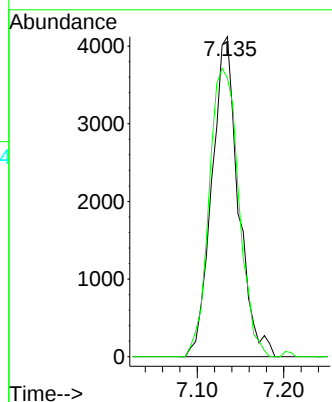
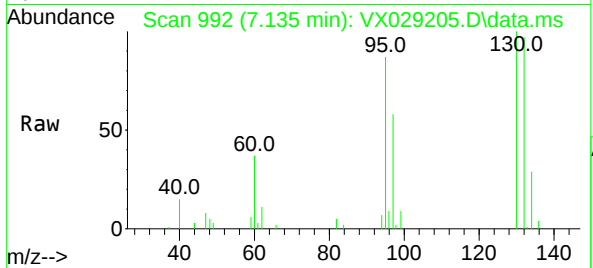




#44  
Trichloroethene  
Concen: 1.316 ug/l  
RT: 7.135 min Scan# 991  
Delta R.T. 0.006 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

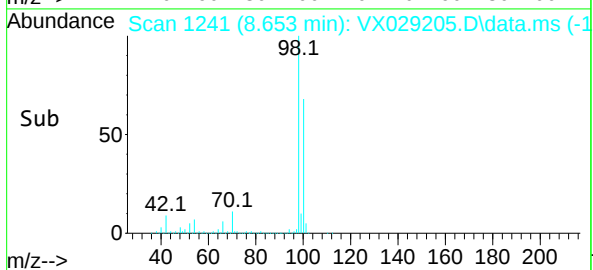
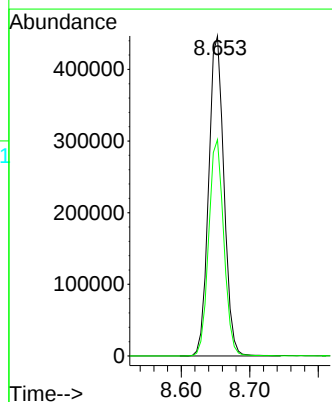
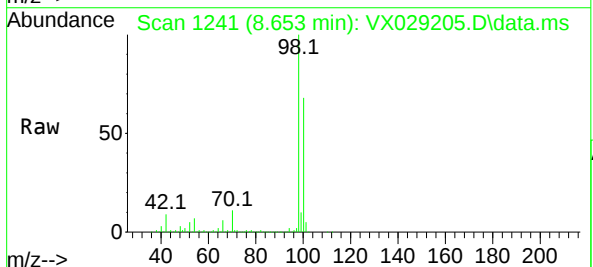
Instrument :  
MSVOA\_X  
ClientSampleId :  
40BR-20220531

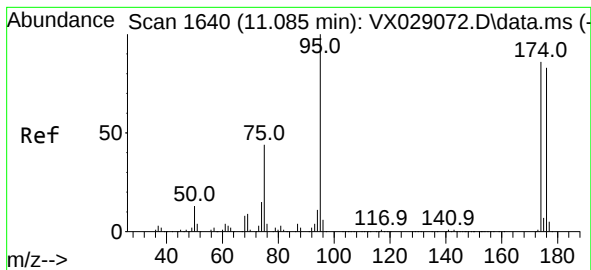
Tgt Ion:130 Resp: 8773  
Ion Ratio Lower Upper  
130 100  
95 87.1 0.0 188.8



#50  
Toluene-d8  
Concen: 48.706 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

Tgt Ion: 98 Resp: 691739  
Ion Ratio Lower Upper  
98 100  
100 66.9 52.6 78.8

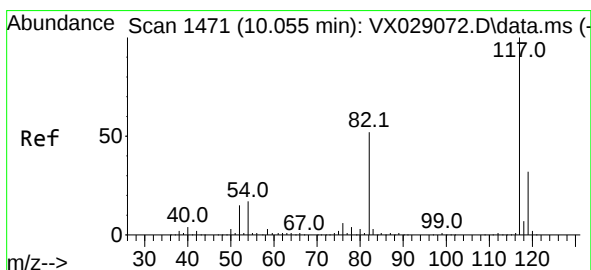
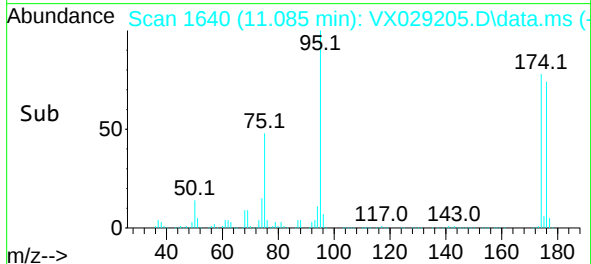
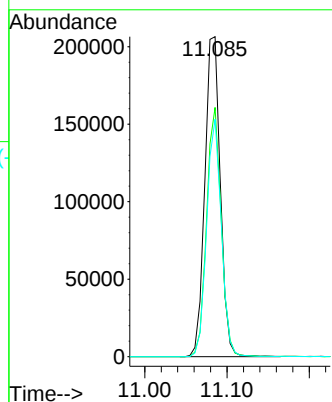
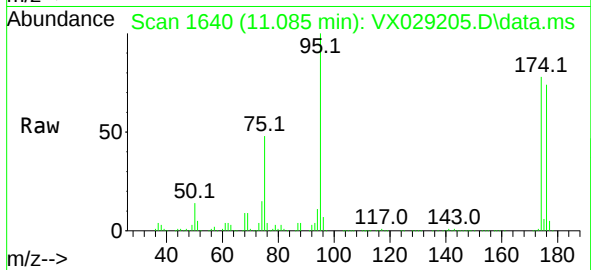




#62  
4-Bromofluorobenzene  
Concen: 49.303 ug/l  
RT: 11.085 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

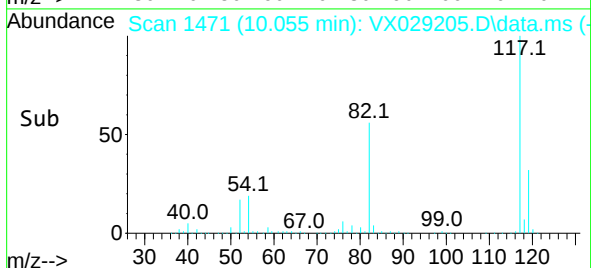
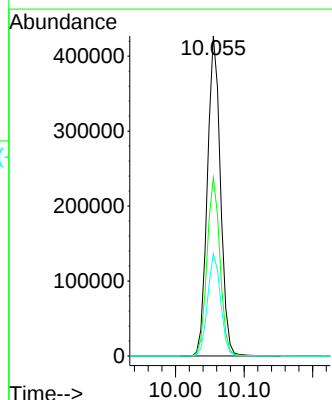
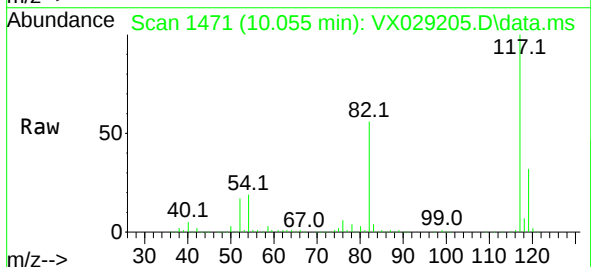
Instrument :  
MSVOA\_X  
ClientSampleId :  
40BR-20220531

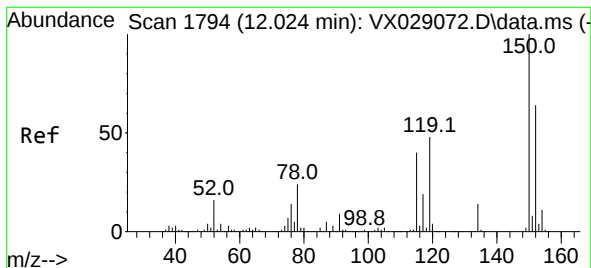
Tgt Ion: 95 Resp: 270669  
Ion Ratio Lower Upper  
95 100  
174 73.4 0.0 163.0  
176 70.3 0.0 155.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX029205.D  
Acq: 03 Jun 2022 21:05

Tgt Ion: 117 Resp: 565711  
Ion Ratio Lower Upper  
117 100  
82 55.7 41.8 62.8  
119 32.0 24.8 37.2

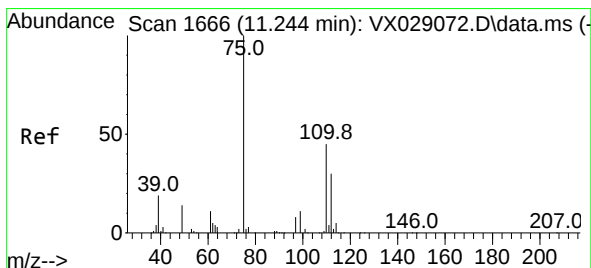
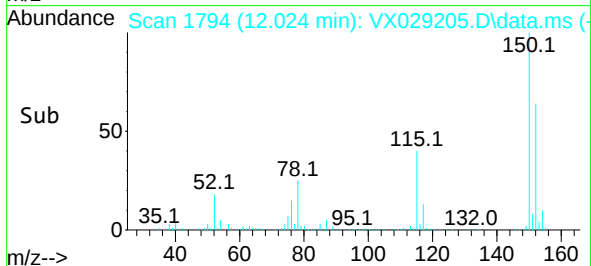
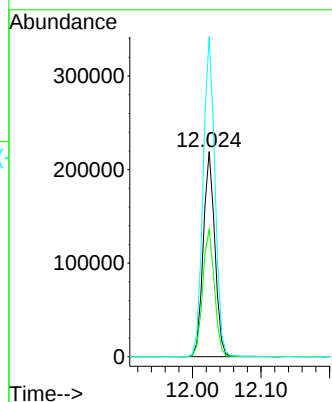
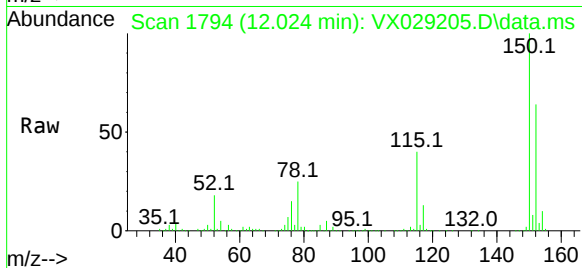




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX029205.D  
 Acq: 03 Jun 2022 21:05

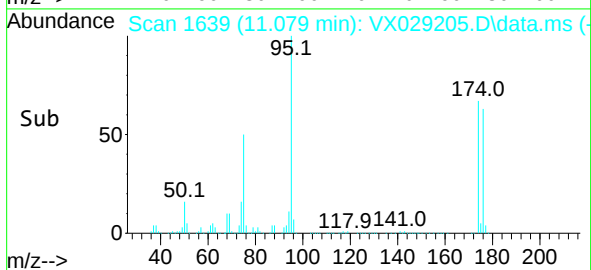
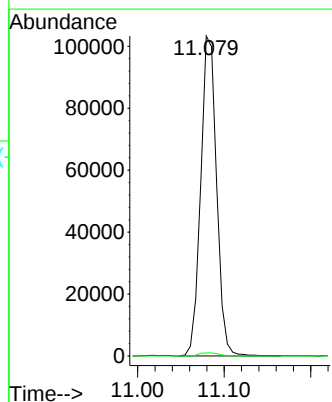
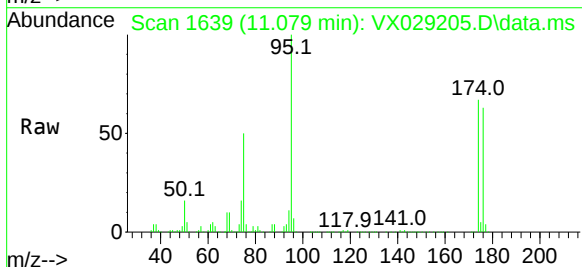
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 40BR-20220531

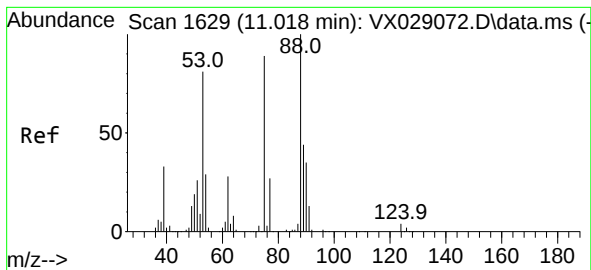
Tgt Ion:152 Resp: 258235  
 Ion Ratio Lower Upper  
 152 100  
 115 62.8 37.5 112.7  
 150 159.2 0.0 338.2



#76  
 1,2,3-Trichloropropane  
 Concen: 25.178 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.165 min  
 Lab File: VX029205.D  
 Acq: 03 Jun 2022 21:05

Tgt Ion: 75 Resp: 131802  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 19.4 58.2#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 73.867 ug/l  
 RT: 11.079 min Scan# 11  
 Delta R.T. 0.061 min  
 Lab File: VX029205.D  
 Acq: 03 Jun 2022 21:05

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 40BR-20220531

Tgt Ion: 75 Resp: 131802  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 69.0 103.4#  
 89 0.1 37.0 55.6#

