

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW062824\  
 Data File : VW029405.D  
 Acq On : 28 Jun 2024 17:58  
 Operator : SY/MD  
 Sample : P3102-03MS  
 Misc : 4.67g/10mL/MSVOA\_W/SOIL/A  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A4CE1MS

Quant Time: Jun 29 02:14:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM061824SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Sat Jun 29 02:05:50 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 8.843  | 114   | 359894   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.629 | 117   | 277831   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.556 | 152   | 90329    | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 2.363  | 65    | 88141    | 17.694   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 70.760%  |
| 7) Chloroethane-d5            | 2.899  | 69    | 77002    | 18.305   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 73.240%  |
| 11) 1,1-Dichloroethene-d2     | 4.021  | 65    | 44128    | 18.347   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 73.400%  |
| 21) 2-Butanone-d5             | 7.075  | 46    | 63473    | 42.590   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 85.180%  |
| 24) Chloroform-d              | 7.654  | 84    | 229198   | 21.349   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 85.400%  |
| 26) 1,2-Dichloroethane-d4     | 8.307  | 65    | 130293   | 21.138   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 84.560%  |
| 32) Benzene-d6                | 8.276  | 84    | 421849   | 24.998   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 100.000% |
| 36) 1,2-Dichloropropane-d6    | 9.276  | 67    | 140445   | 26.181   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 104.720% |
| 41) Toluene-d8                | 10.325 | 98    | 343173   | 22.985   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 91.960%  |
| 43) trans-1,3-Dichloroprop... | 10.575 | 79    | 47660    | 22.047   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 88.200%  |
| 47) 2-Hexanone-d5             | 10.922 | 63    | 41815    | 49.725   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 99.440%  |
| 56) 1,1,2,2-Tetrachloroeth... | 12.690 | 84    | 95593    | 22.390   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 89.560%  |
| 66) 1,2-Dichlorobenzene-d4    | 13.848 | 152   | 66631    | 21.251   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 85.000%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.015  | 85    | 54364    | 15.483   | ug/L   | 95       |
| 3) Chloromethane              | 2.222  | 50    | 88338    | 17.645   | ug/L   | 100      |
| 5) Vinyl chloride             | 2.375  | 62    | 103805   | 18.055   | ug/L   | 98       |
| 6) Bromomethane               | 2.789  | 94    | 57624    | 16.675   | ug/L   | 93       |
| 8) Chloroethane               | 2.936  | 64    | 68755    | 19.551   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 3.265  | 101   | 97799    | 21.941   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 4.076  | 101   | 85624    | 17.422   | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 4.045  | 96    | 86451    | 20.731   | ug/L   | 86       |
| 13) Acetone                   | 4.118  | 43    | 38303    | 30.242   | ug/L   | 97       |
| 14) Carbon disulfide          | 4.393  | 76    | 214662   | 15.769   | ug/L   | 99       |
| 15) Methyl Acetate            | 4.667  | 43    | 42795    | 17.020   | ug/L   | 98       |
| 16) Methylene chloride        | 4.917  | 84    | 108911   | 17.210   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 5.429  | 96    | 93977    | 20.293   | ug/L   | 94       |
| 18) Methyl tert-butyl Ether   | 5.429  | 73    | 181248   | 24.462   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 6.222  | 63    | 220295   | 22.025   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 7.173  | 96    | 110321   | 21.603   | ug/L   | 96       |
| 22) 2-Butanone                | 7.167  | 43    | 66916    | 38.542   | ug/L   | 99       |
| 23) Bromochloromethane        | 7.514  | 128   | 47260    | 20.788   | ug/L   | 95       |
| 25) Chloroform                | 7.673  | 83    | 213092   | 21.818   | ug/L   | 95       |

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 Sample : P3102-03MS  
 Misc : 4.67g/10mL/MSVOA\_W/SOIL/A  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A4CE1MS

Quant Time: Jun 29 02:14:12 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM061824SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Sat Jun 29 02:05:50 2024  
 Response via : Initial Calibration

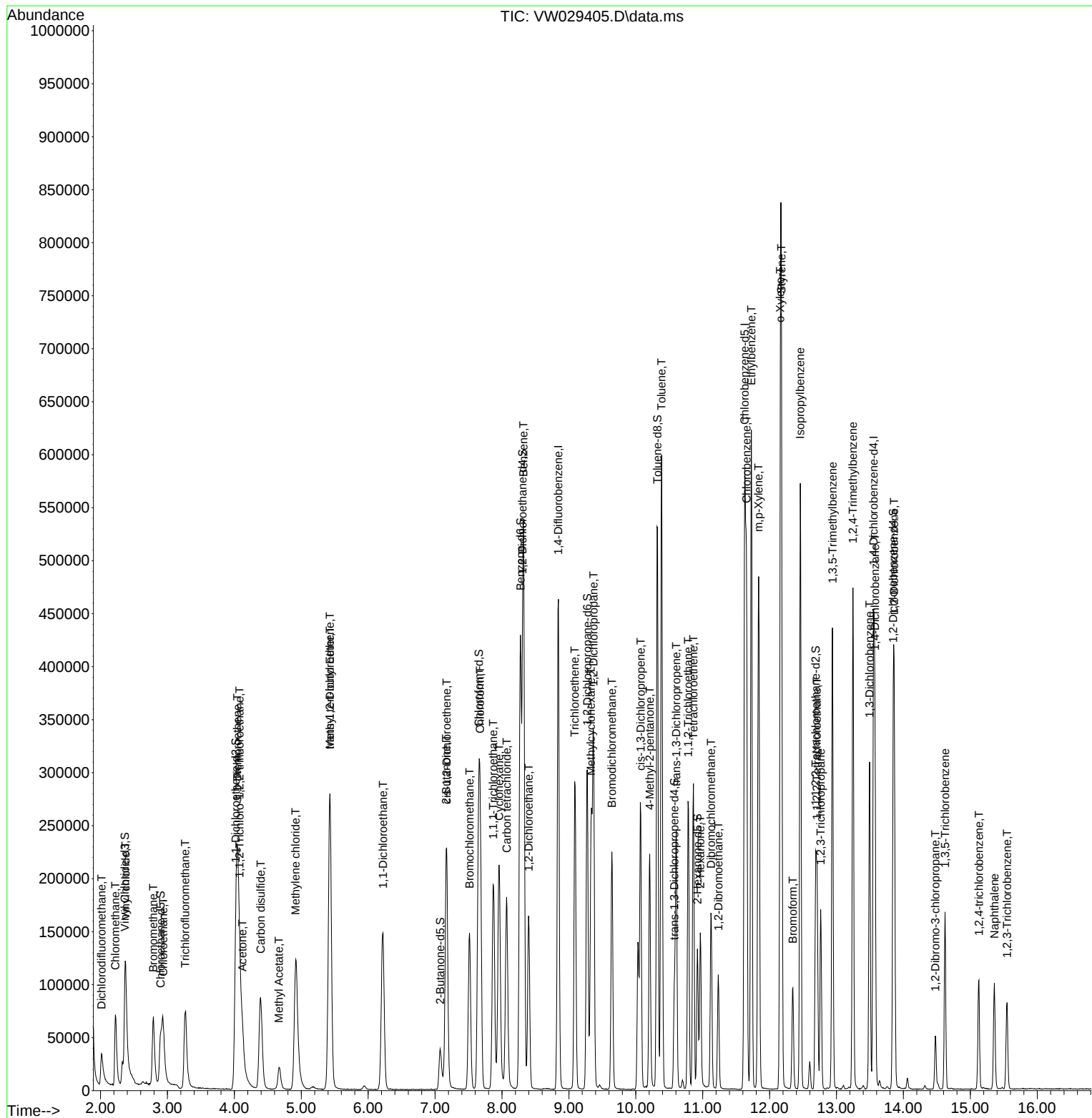
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 8.398  | 62   | 150920   | 20.951 | ug/L  | 99       |
| 29) Cyclohexane               | 7.959  | 56   | 124075   | 19.535 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 7.868  | 97   | 160199   | 25.930 | ug/L  | 96       |
| 31) Carbon tetrachloride      | 8.069  | 117  | 135628   | 24.032 | ug/L  | 97       |
| 33) Benzene                   | 8.319  | 78   | 437467   | 26.206 | ug/L  | 100      |
| 34) Trichloroethene           | 9.087  | 95   | 104537   | 23.472 | ug/L  | 94       |
| 35) Methylcyclohexane         | 9.331  | 83   | 93316    | 13.323 | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 9.368  | 63   | 122375   | 26.088 | ug/L  | 99       |
| 38) Bromodichloromethane      | 9.642  | 83   | 146892   | 25.612 | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 10.075 | 75   | 151783   | 22.891 | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone      | 10.209 | 43   | 149813   | 51.528 | ug/L  | 98       |
| 42) Toluene                   | 10.386 | 91   | 418593   | 24.391 | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 10.605 | 75   | 127909   | 22.845 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 10.782 | 97   | 81554    | 24.963 | ug/L  | 97       |
| 46) Tetrachloroethene         | 10.861 | 164  | 61814    | 19.854 | ug/L  | 88       |
| 48) 2-Hexanone                | 10.965 | 43   | 95555    | 46.318 | ug/L  | 100      |
| 49) Dibromochloromethane      | 11.123 | 129  | 84205    | 24.657 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 11.233 | 107  | 69305    | 23.632 | ug/L  | 94       |
| 51) Chlorobenzene             | 11.654 | 112  | 232792   | 20.889 | ug/L  | 98       |
| 52) Ethylbenzene              | 11.727 | 91   | 413124   | 21.207 | ug/L  | 97       |
| 53) m,p-Xylene                | 11.837 | 106  | 146934   | 20.650 | ug/L  | 94       |
| 54) o-Xylene                  | 12.160 | 106  | 140609   | 21.144 | ug/L  | 90       |
| 55) Styrene                   | 12.178 | 104  | 237184   | 20.456 | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 12.708 | 83   | 87453    | 21.641 | ug/L  | 95       |
| 59) Bromoform                 | 12.349 | 173  | 43243    | 34.929 | ug/L  | 99       |
| 60) Isopropylbenzene          | 12.458 | 105  | 343135   | 28.509 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 12.763 | 75   | 68156    | 34.593 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.940 | 105  | 220741   | 25.324 | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 13.245 | 105  | 238469   | 25.427 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 13.495 | 146  | 114554   | 21.993 | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene       | 13.574 | 146  | 116912   | 21.096 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 13.861 | 146  | 103898   | 21.577 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 14.476 | 75   | 12949    | 28.164 | ug/L  | 91       |
| 69) 1,3,5-Trichlorobenzene    | 14.623 | 180  | 45161    | 12.847 | ug/L  | 96       |
| 70) 1,2,4-trichlorobenzene    | 15.129 | 180  | 31245    | 10.965 | ug/L  | 95       |
| 71) Naphthalene               | 15.360 | 128  | 79843    | 14.196 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.549 | 180  | 25143    | 9.684  | ug/L  | 97       |

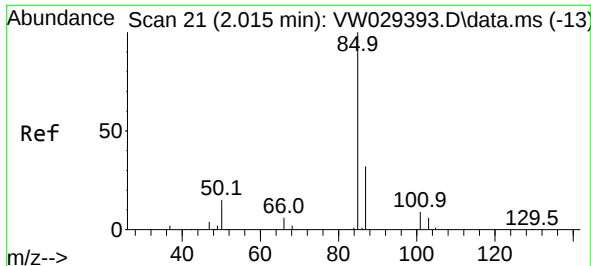
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
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A4CE1MS

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Quant Title : SFAM01.0  
QLast Update : Sat Jun 29 02:05:50 2024  
Response via : Initial Calibration

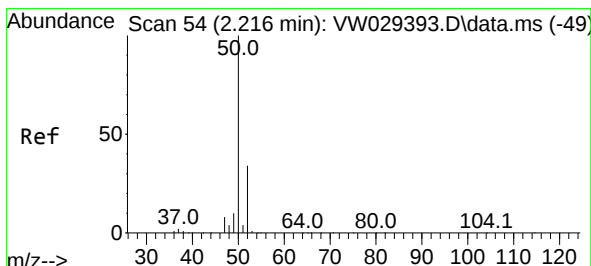
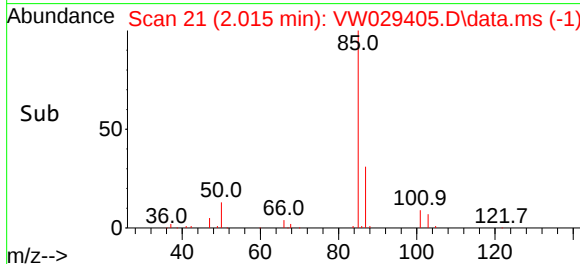
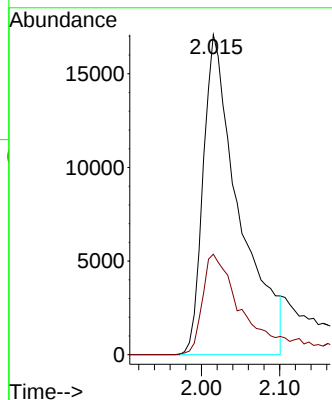
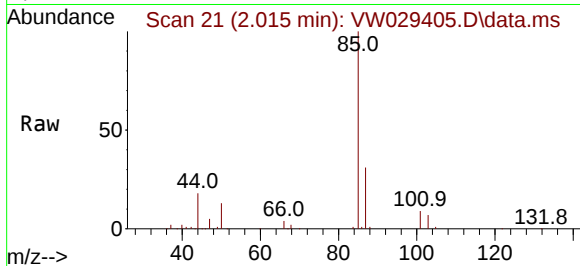




#2  
 Dichlorodifluoromethane  
 Concen: 15.483 ug/L  
 RT: 2.015 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VW029405.D  
 Acq: 28 Jun 2024 17:58

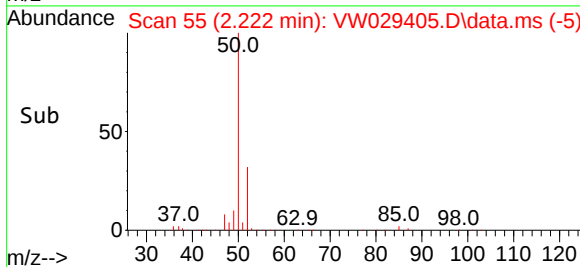
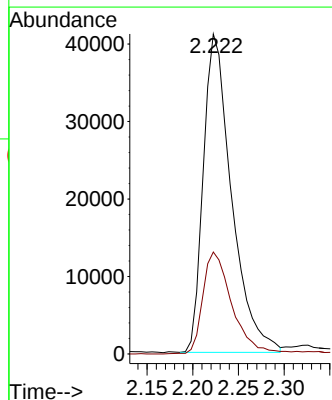
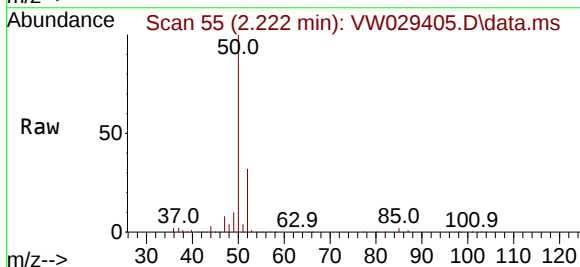
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A4CE1MS

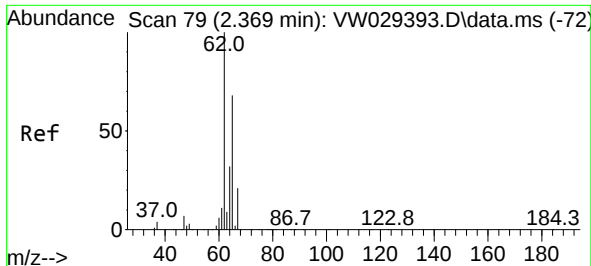
Tgt Ion: 85 Resp: 54364  
 Ion Ratio Lower Upper  
 85 100  
 87 32.4 23.8 35.6



#3  
 Chloromethane  
 Concen: 17.645 ug/L  
 RT: 2.222 min Scan# 55  
 Delta R.T. 0.006 min  
 Lab File: VW029405.D  
 Acq: 28 Jun 2024 17:58

Tgt Ion: 50 Resp: 88338  
 Ion Ratio Lower Upper  
 50 100  
 52 31.8 22.3 41.5

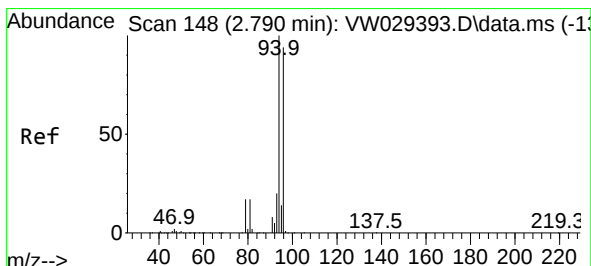
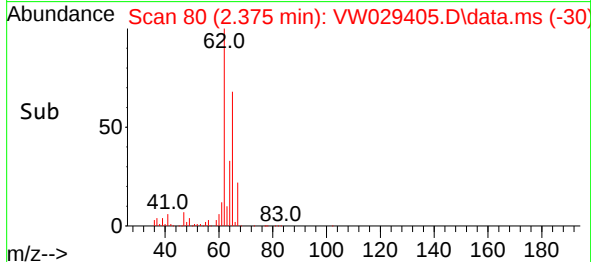
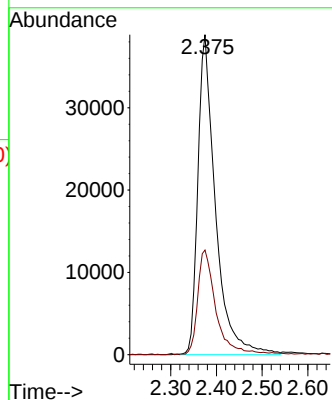
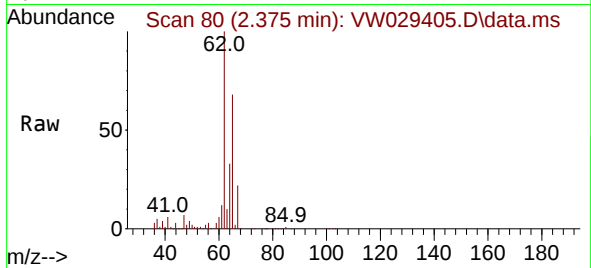




#5  
 Vinyl chloride  
 Concen: 18.055 ug/L  
 RT: 2.375 min Scan# 80  
 Delta R.T. 0.006 min  
 Lab File: VW029405.D  
 Acq: 28 Jun 2024 17:58

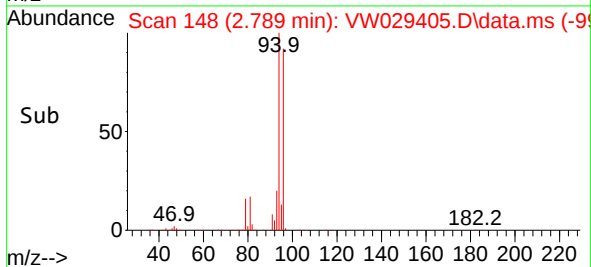
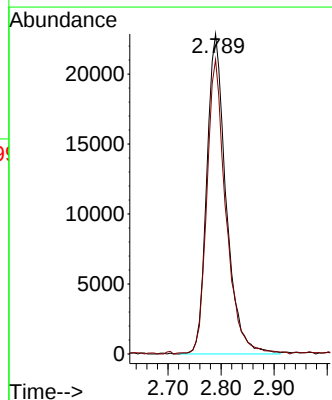
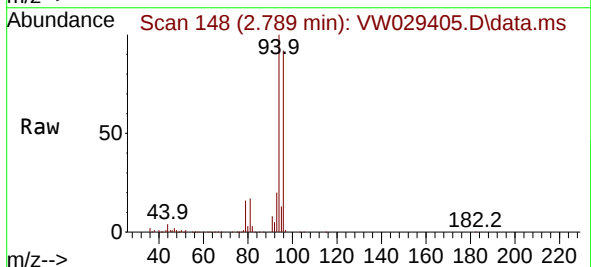
Instrument :  
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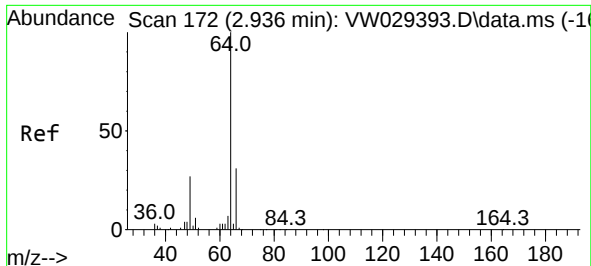
Tgt Ion: 62 Resp: 103805  
 Ion Ratio Lower Upper  
 62 100  
 64 32.7 22.0 40.8



#6  
 Bromomethane  
 Concen: 16.675 ug/L  
 RT: 2.789 min Scan# 148  
 Delta R.T. -0.000 min  
 Lab File: VW029405.D  
 Acq: 28 Jun 2024 17:58

Tgt Ion: 94 Resp: 57624  
 Ion Ratio Lower Upper  
 94 100  
 96 92.0 69.5 129.1

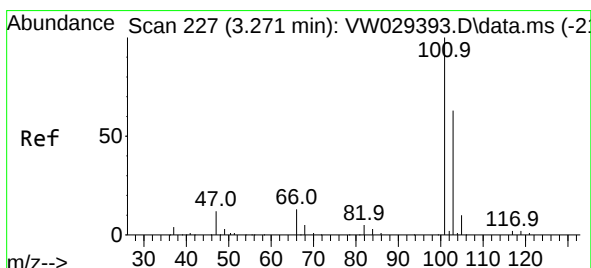
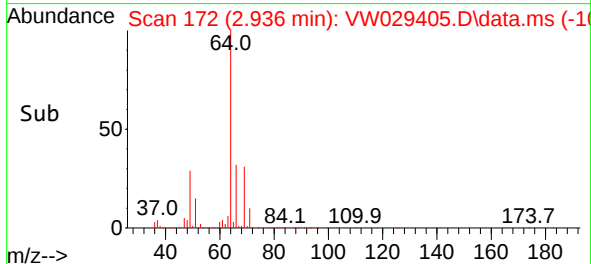
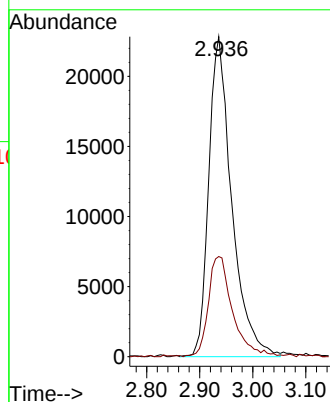
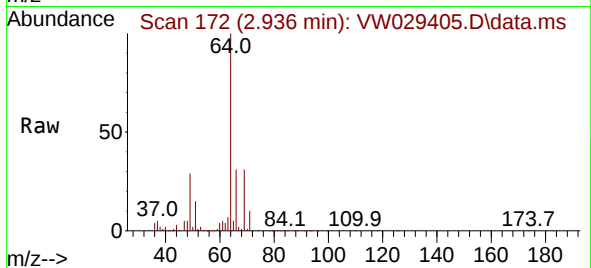




#8  
Chloroethane  
Concen: 19.551 ug/L  
RT: 2.936 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

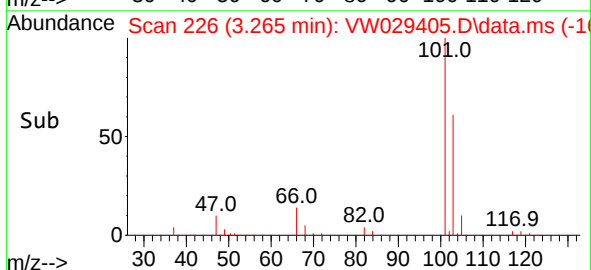
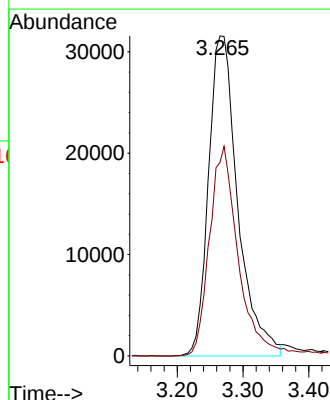
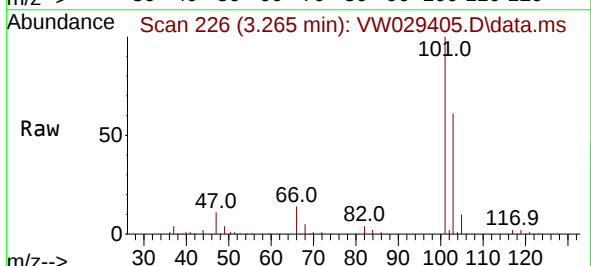
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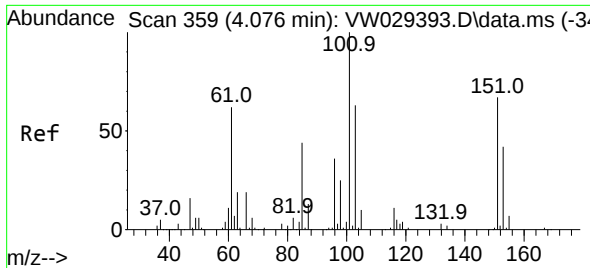
Tgt Ion: 64 Resp: 68755  
Ion Ratio Lower Upper  
64 100  
66 31.3 22.5 41.9



#9  
Trichlorofluoromethane  
Concen: 21.941 ug/L  
RT: 3.265 min Scan# 226  
Delta R.T. -0.006 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

Tgt Ion:101 Resp: 97799  
Ion Ratio Lower Upper  
101 100  
103 63.6 50.8 76.2

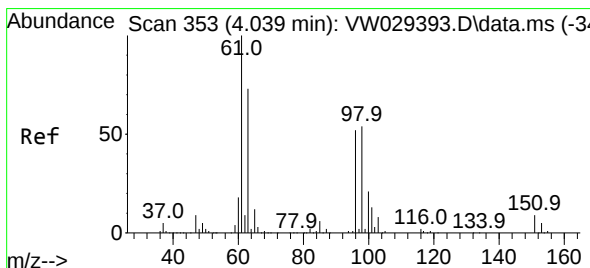
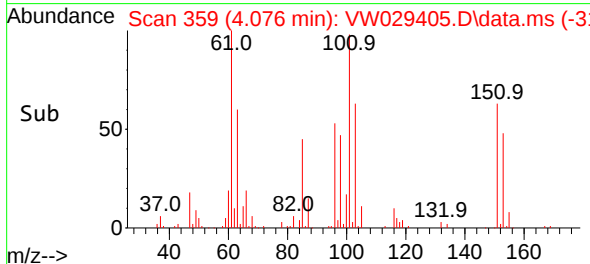
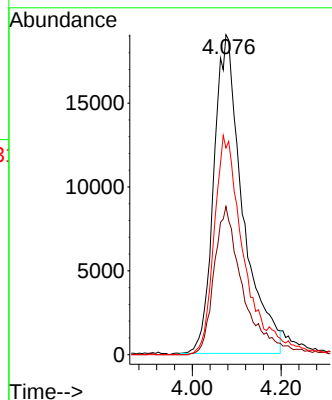
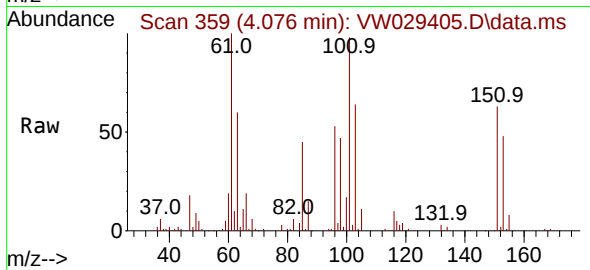




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 17.422 ug/L  
 RT: 4.076 min Scan# 359  
 Delta R.T. -0.000 min  
 Lab File: VW029405.D  
 Acq: 28 Jun 2024 17:58

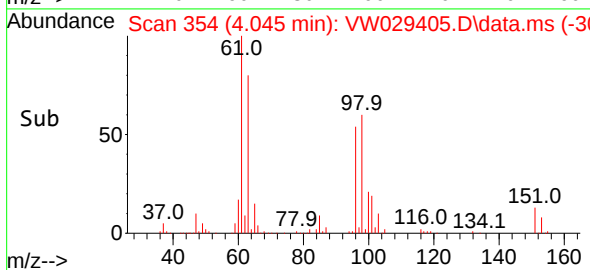
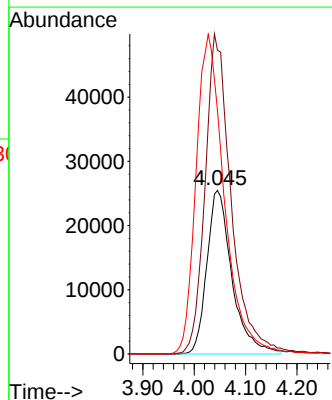
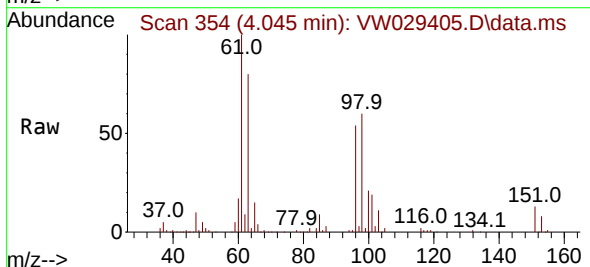
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 ClientSampleId :  
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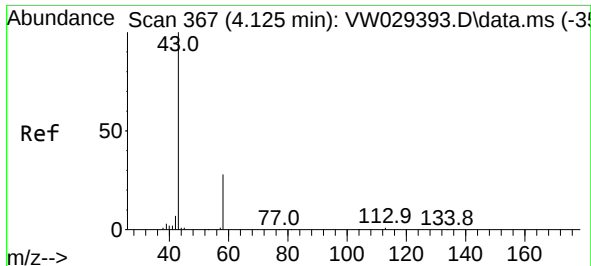
Tgt Ion:101 Resp: 85624  
 Ion Ratio Lower Upper  
 101 100  
 85 41.1 30.2 45.2  
 151 66.0 52.2 78.4



#12  
 1,1-Dichloroethene  
 Concen: 20.731 ug/L  
 RT: 4.045 min Scan# 354  
 Delta R.T. 0.006 min  
 Lab File: VW029405.D  
 Acq: 28 Jun 2024 17:58

Tgt Ion: 96 Resp: 86451  
 Ion Ratio Lower Upper  
 96 100  
 61 185.8 140.1 260.3  
 63 148.9 122.0 226.6

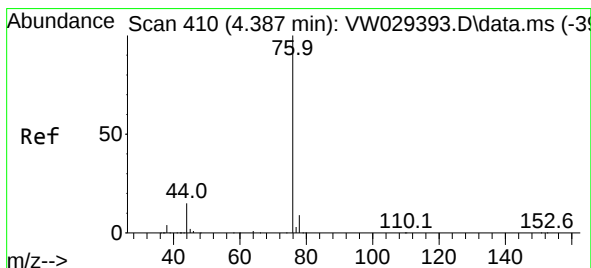
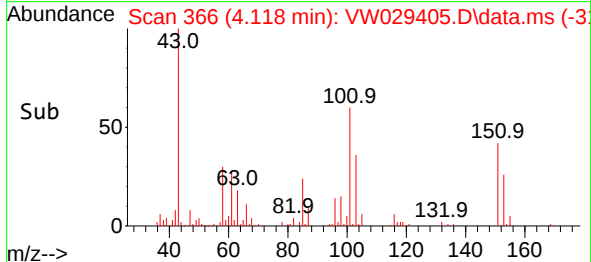
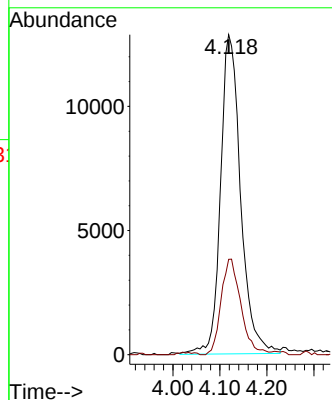
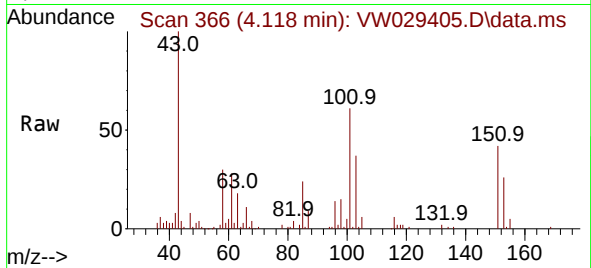




#13  
Acetone  
Concen: 30.242 ug/L  
RT: 4.118 min Scan# 30  
Delta R.T. -0.006 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

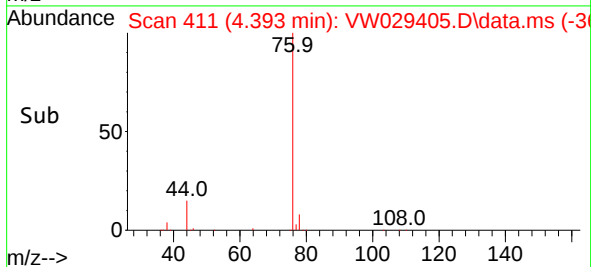
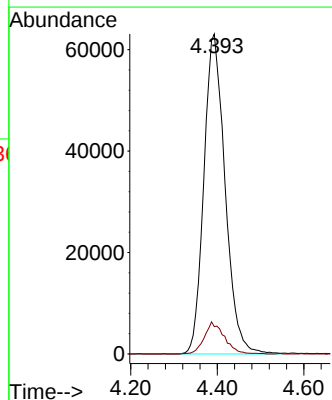
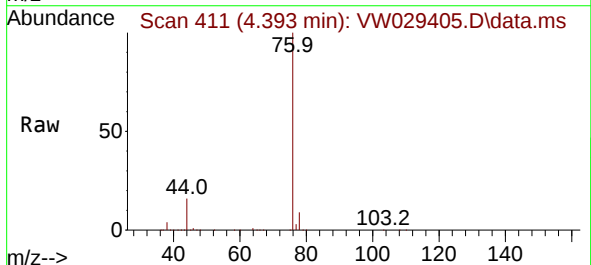
Instrument :  
MSVOA\_W  
ClientSampleId :  
A4CE1MS

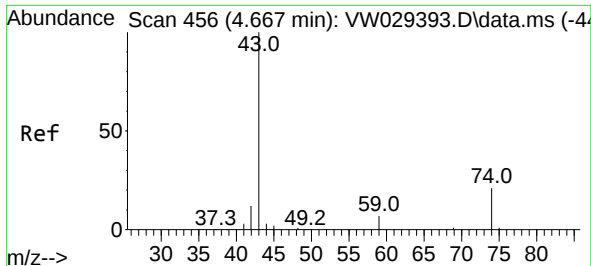
Tgt Ion: 43 Resp: 38303  
Ion Ratio Lower Upper  
43 100  
58 29.0 0.0 61.4



#14  
Carbon disulfide  
Concen: 15.769 ug/L  
RT: 4.393 min Scan# 411  
Delta R.T. 0.006 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

Tgt Ion: 76 Resp: 214662  
Ion Ratio Lower Upper  
76 100  
78 8.6 7.2 10.8

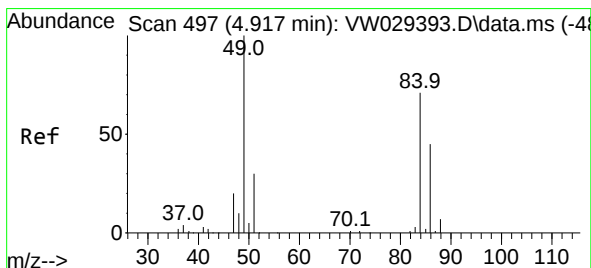
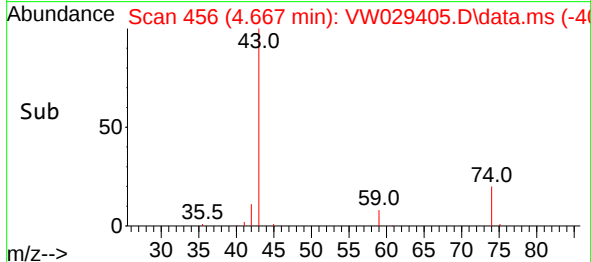
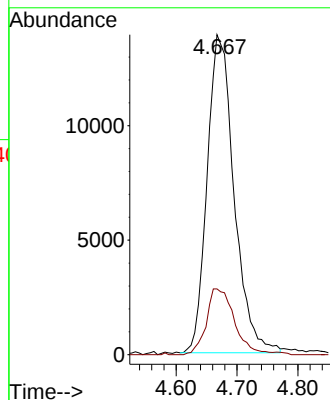
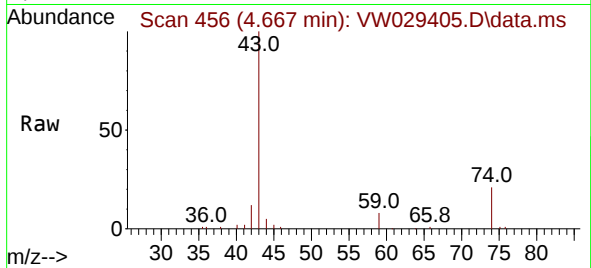




#15  
Methyl Acetate  
Concen: 17.020 ug/L  
RT: 4.667 min Scan# 456  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

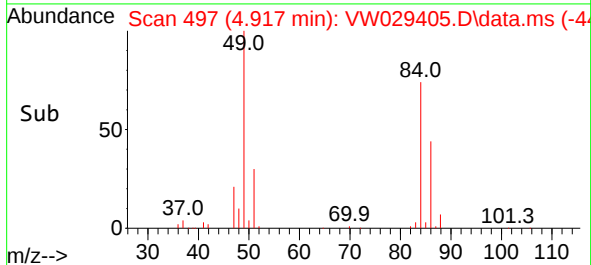
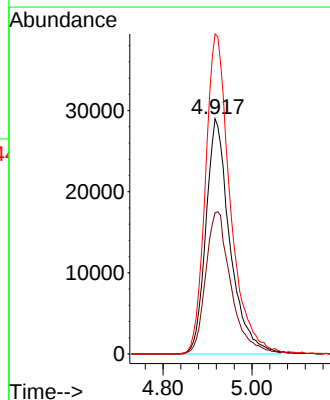
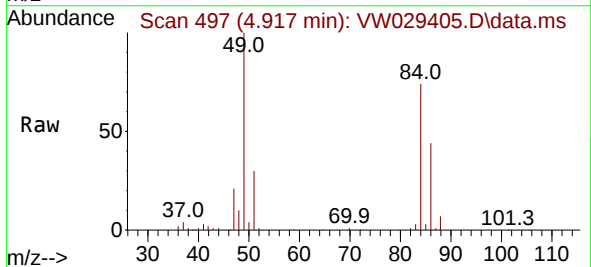
Instrument :  
MSVOA\_W  
ClientSampleId :  
A4CE1MS

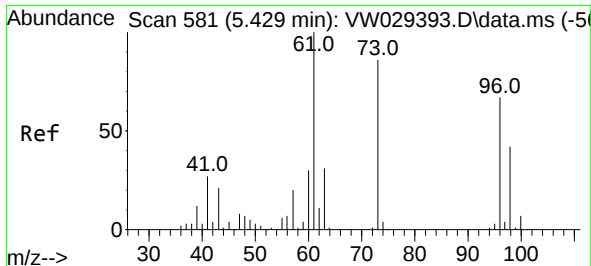
Tgt Ion: 43 Resp: 42795  
Ion Ratio Lower Upper  
43 100  
74 21.5 16.6 25.0



#16  
Methylene chloride  
Concen: 17.210 ug/L  
RT: 4.917 min Scan# 497  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

Tgt Ion: 84 Resp: 108911  
Ion Ratio Lower Upper  
84 100  
86 60.1 41.4 77.0  
49 136.0 95.7 177.7





#17

trans-1,2-Dichloroethene

Concen: 20.293 ug/L

RT: 5.429 min Scan# 581

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Instrument :

MSVOA\_W

ClientSampleId :

A4CE1MS

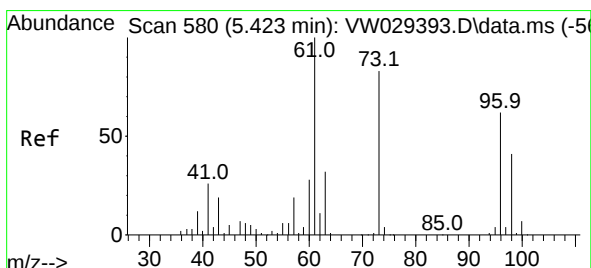
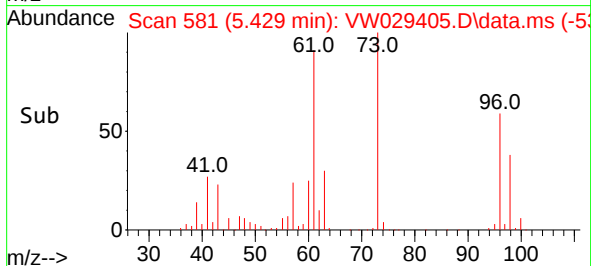
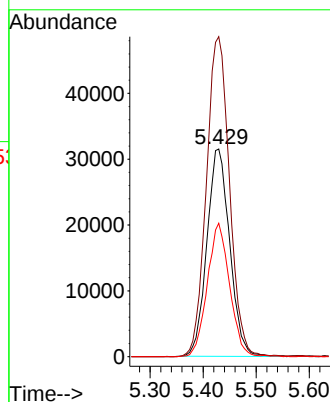
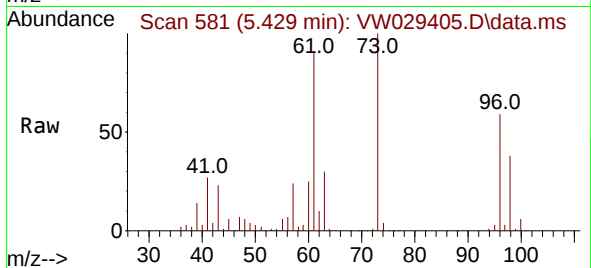
Tgt Ion: 96 Resp: 93977

Ion Ratio Lower Upper

96 100

61 154.0 101.5 188.5

98 64.2 43.3 80.3



#18

Methyl tert-butyl Ether

Concen: 24.462 ug/L

RT: 5.429 min Scan# 581

Delta R.T. 0.006 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

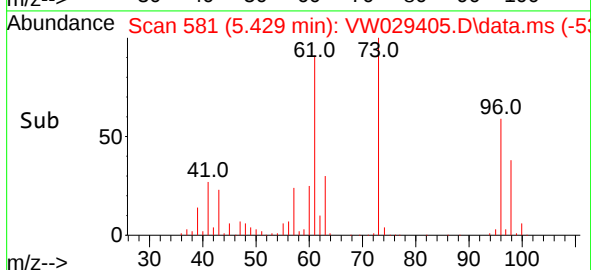
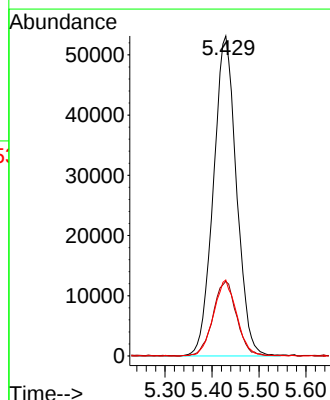
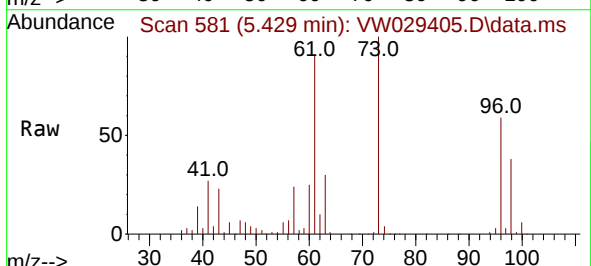
Tgt Ion: 73 Resp: 181248

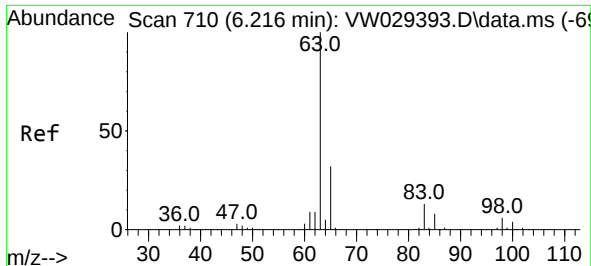
Ion Ratio Lower Upper

73 100

43 24.0 19.5 29.3

57 23.9 18.4 27.6

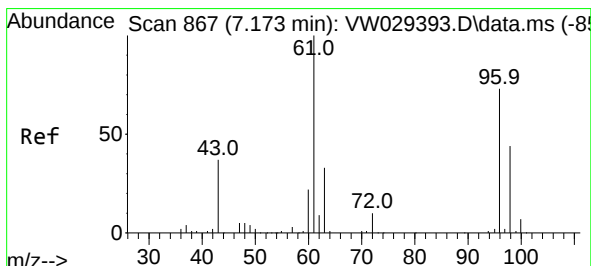
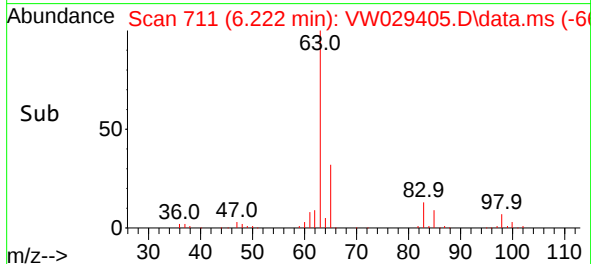
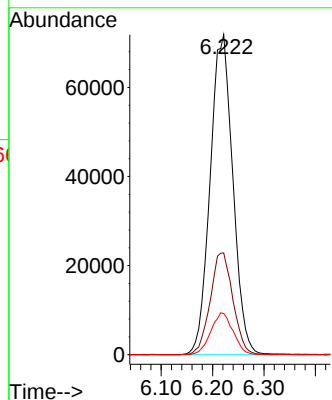
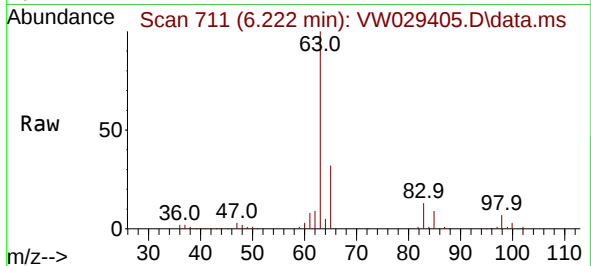




#19  
1,1-Dichloroethane  
Concen: 22.025 ug/L  
RT: 6.222 min Scan# 710  
Delta R.T. 0.006 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

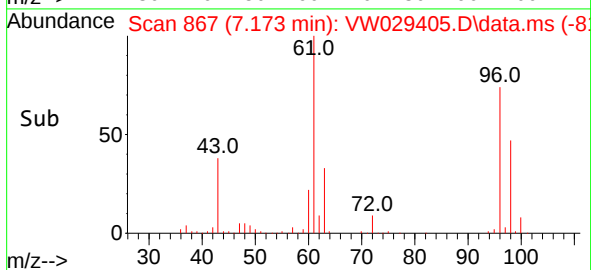
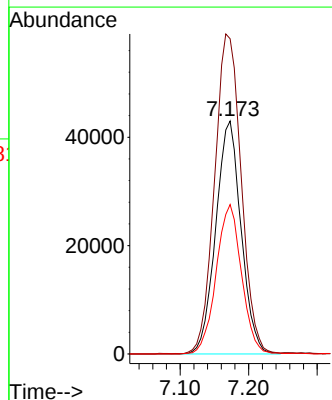
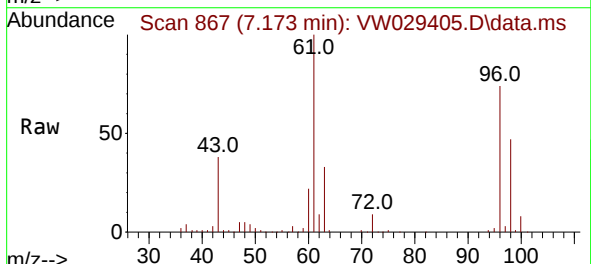
Instrument :  
MSVOA\_W  
ClientSampleId :  
A4CE1MS

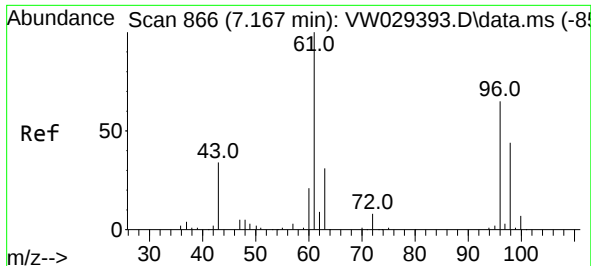
Tgt Ion: 63 Resp: 220295  
Ion Ratio Lower Upper  
63 100  
65 31.8 23.4 43.4  
83 12.8 8.9 16.5



#20  
cis-1,2-Dichloroethene  
Concen: 21.603 ug/L  
RT: 7.173 min Scan# 867  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

Tgt Ion: 96 Resp: 110321  
Ion Ratio Lower Upper  
96 100  
61 135.2 97.8 181.6  
98 64.2 43.0 79.8

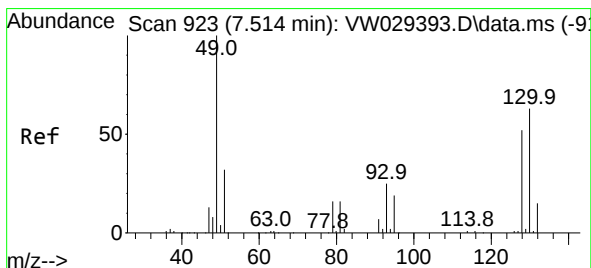
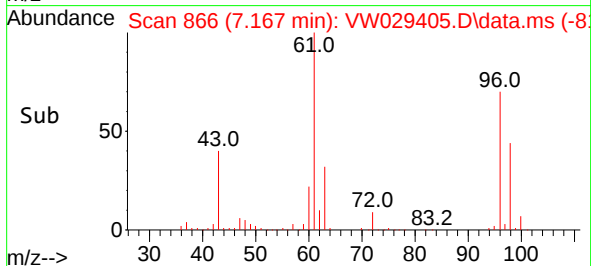
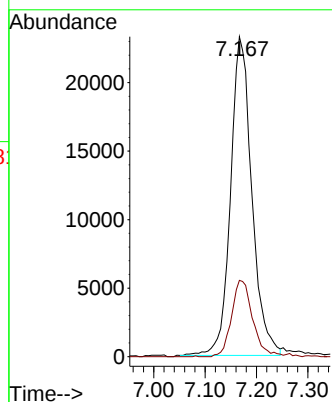
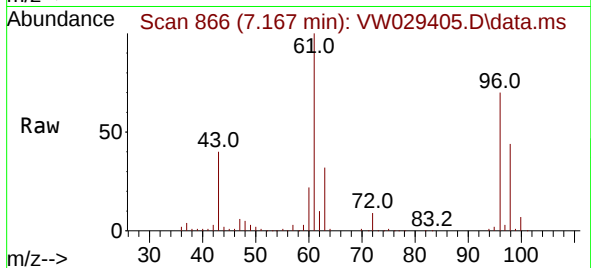




#22  
2-Butanone  
Concen: 38.542 ug/L  
RT: 7.167 min Scan# 866  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

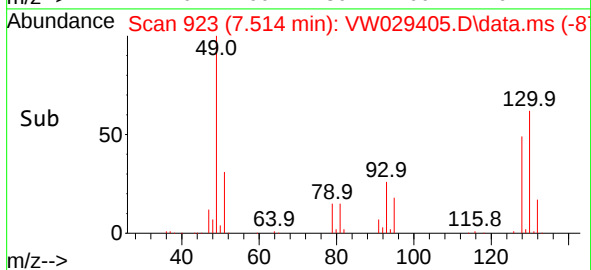
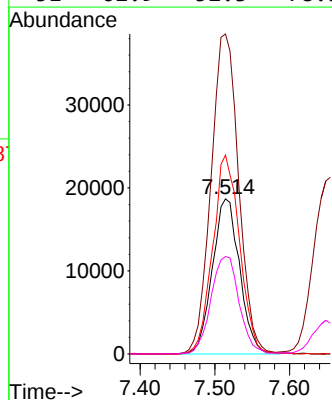
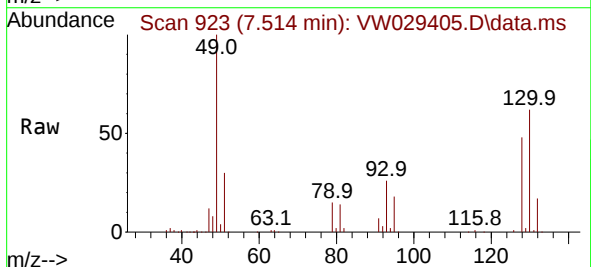
Instrument :  
MSVOA\_W  
ClientSampleId :  
A4CE1MS

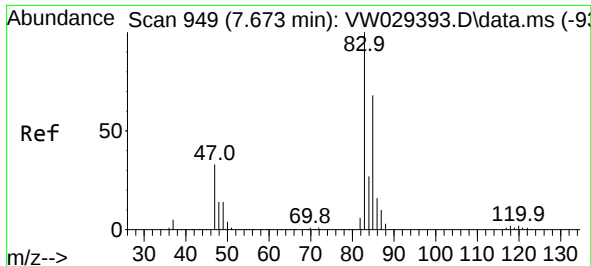
Tgt Ion: 43 Resp: 66916  
Ion Ratio Lower Upper  
43 100  
72 23.2 11.9 35.7



#23  
Bromochloromethane  
Concen: 20.788 ug/L  
RT: 7.514 min Scan# 923  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

Tgt Ion: 128 Resp: 47260  
Ion Ratio Lower Upper  
128 100  
49 206.3 142.6 264.8  
130 128.2 79.7 148.1  
51 62.9 52.3 78.5

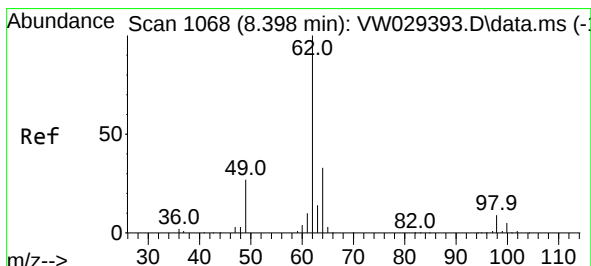
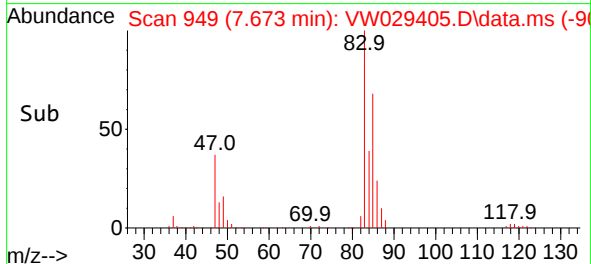
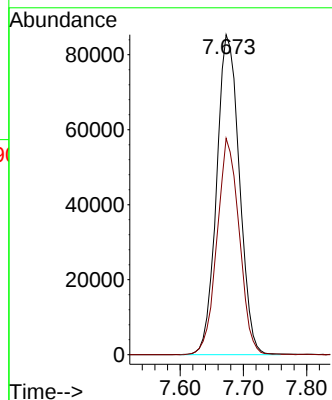
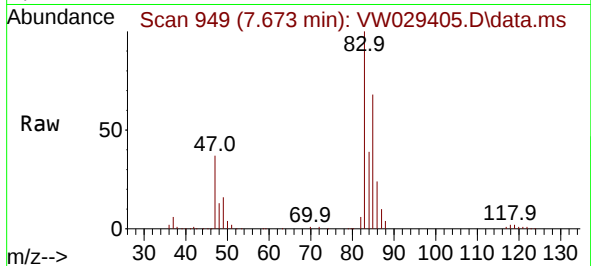




#25  
Chloroform  
Concen: 21.818 ug/L  
RT: 7.673 min Scan# 949  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

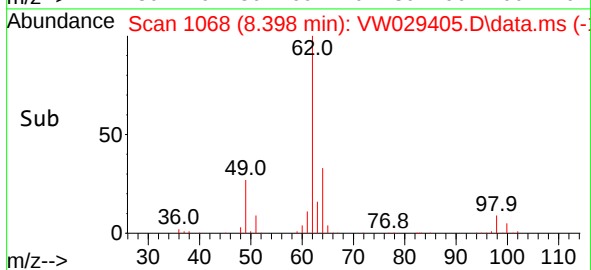
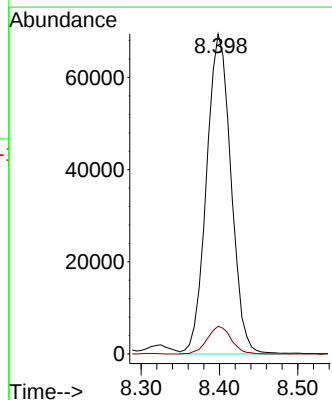
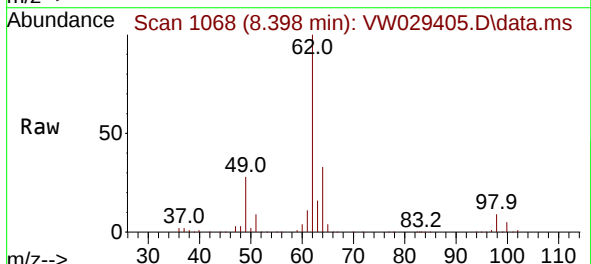
Instrument :  
MSVOA\_W  
ClientSampleId :  
A4CE1MS

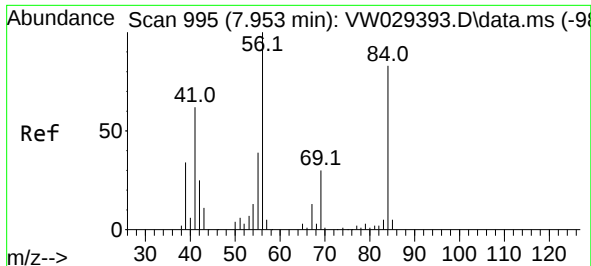
Tgt Ion: 83 Resp: 213092  
Ion Ratio Lower Upper  
83 100  
85 67.6 44.4 82.4



#27  
1,2-Dichloroethane  
Concen: 20.951 ug/L  
RT: 8.398 min Scan# 1068  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

Tgt Ion: 62 Resp: 150920  
Ion Ratio Lower Upper  
62 100  
98 8.6 6.6 10.0

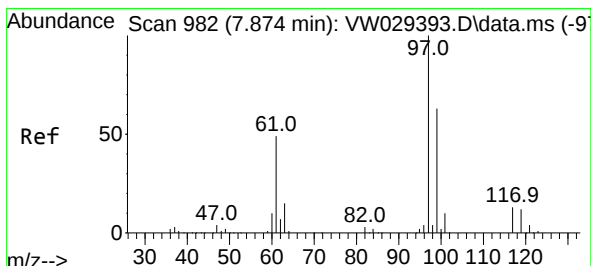
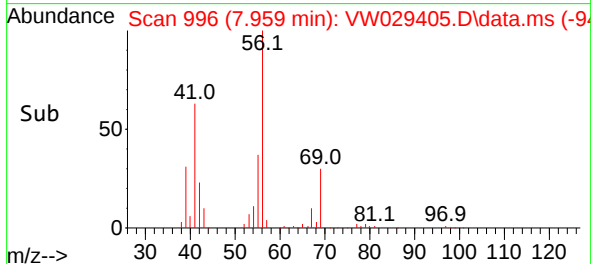
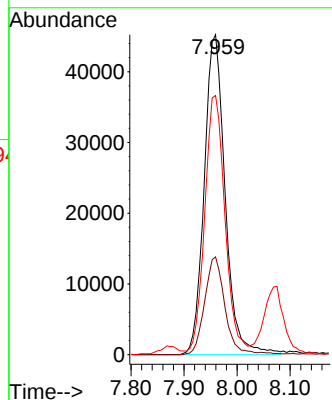
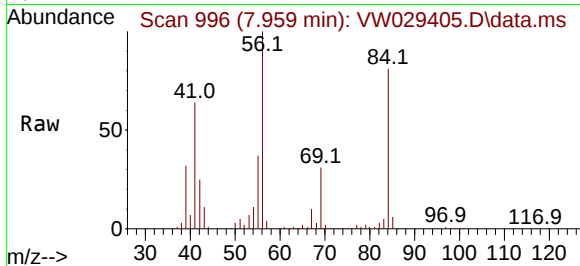




#29  
Cyclohexane  
Concen: 19.535 ug/L  
RT: 7.959 min Scan# 996  
Delta R.T. 0.006 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

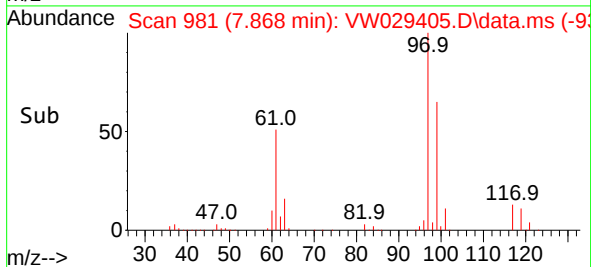
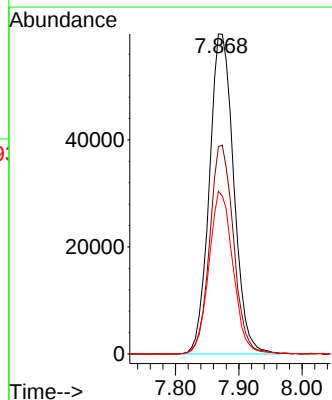
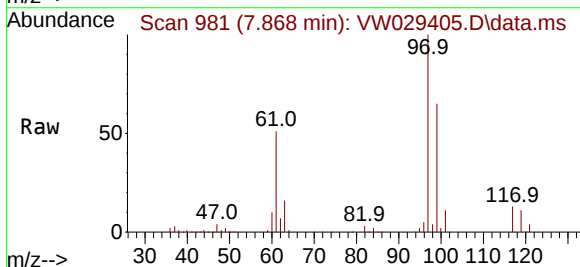
Instrument :  
MSVOA\_W  
ClientSampleId :  
A4CE1MS

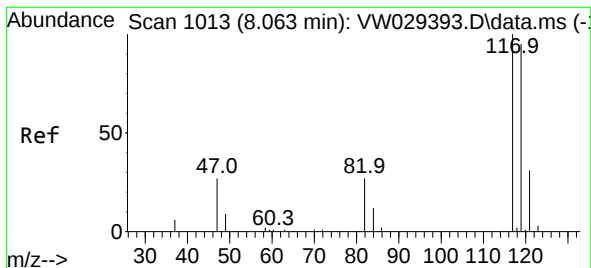
Tgt Ion: 56 Resp: 124075  
Ion Ratio Lower Upper  
56 100  
69 29.2 23.4 35.0  
84 78.6 64.5 96.7



#30  
1,1,1-Trichloroethane  
Concen: 25.930 ug/L  
RT: 7.868 min Scan# 981  
Delta R.T. -0.006 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

Tgt Ion: 97 Resp: 160199  
Ion Ratio Lower Upper  
97 100  
99 63.8 53.0 79.4  
61 50.3 43.0 64.4





#31

Carbon tetrachloride

Concen: 24.032 ug/L

RT: 8.069 min Scan# 1013

Delta R.T. 0.006 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Instrument :

MSVOA\_W

ClientSampleId :

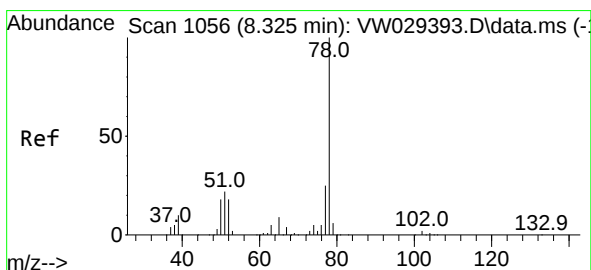
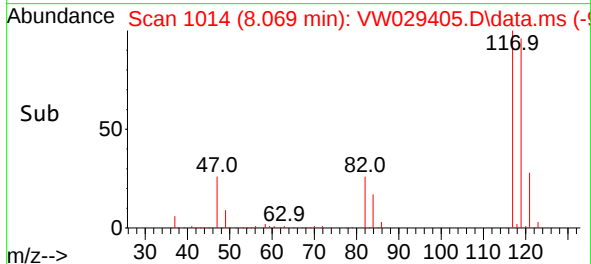
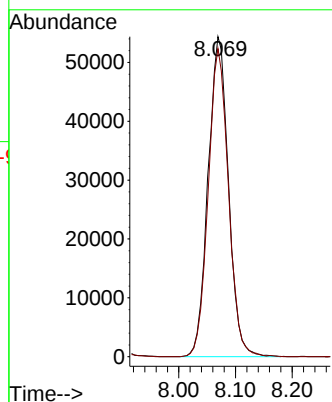
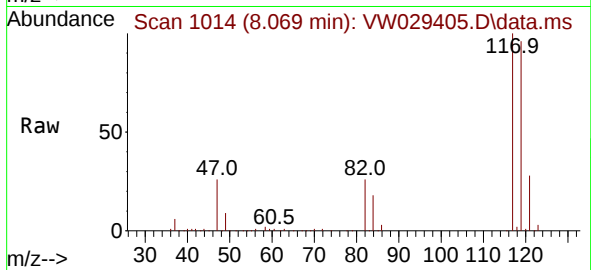
A4CE1MS

Tgt Ion:117 Resp: 135628

Ion Ratio Lower Upper

117 100

119 95.3 79.0 118.4



#33

Benzene

Concen: 26.206 ug/L

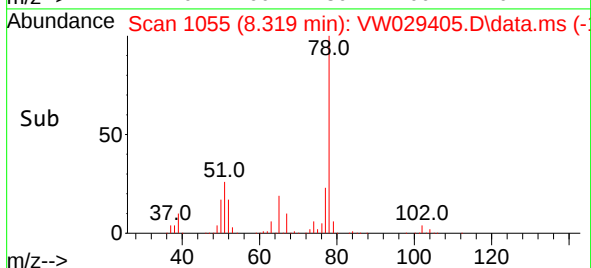
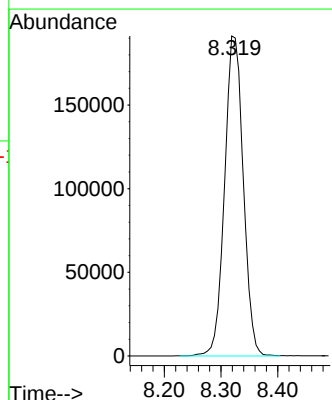
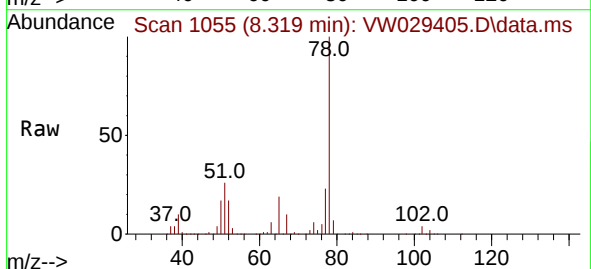
RT: 8.319 min Scan# 1055

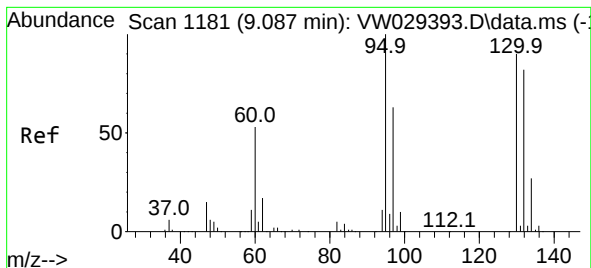
Delta R.T. -0.006 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Tgt Ion: 78 Resp: 437467





#34

Trichloroethene

Concen: 23.472 ug/L

RT: 9.087 min Scan# 1181

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Instrument :

MSVOA\_W

ClientSampleId :

A4CE1MS

Tgt Ion: 95 Resp: 104537

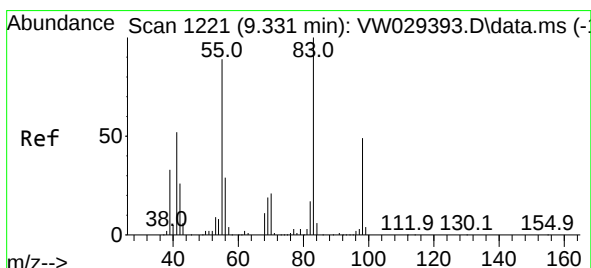
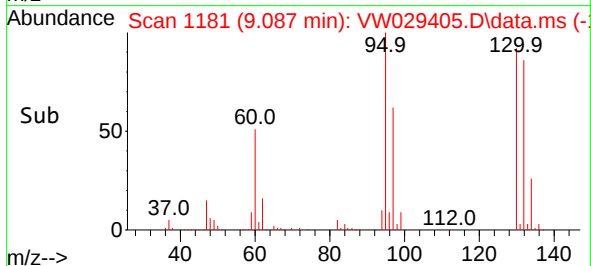
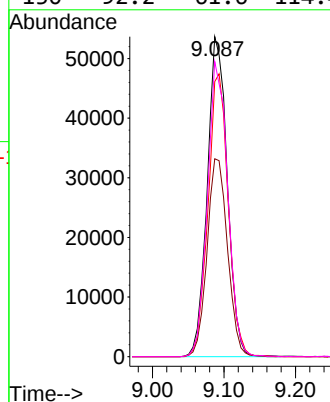
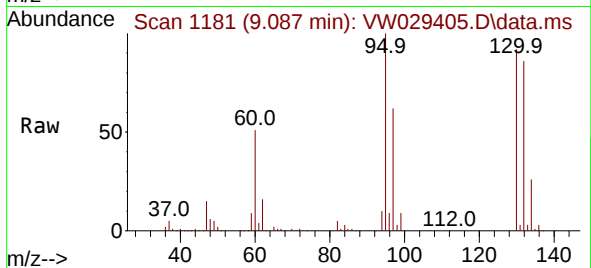
Ion Ratio Lower Upper

95 100

97 61.8 45.7 84.9

132 86.0 66.4 123.4

130 92.2 61.6 114.4



#35

Methylcyclohexane

Concen: 13.323 ug/L

RT: 9.331 min Scan# 1221

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

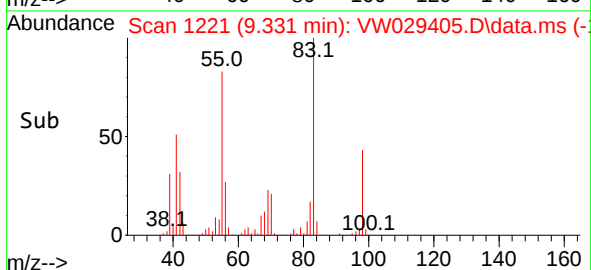
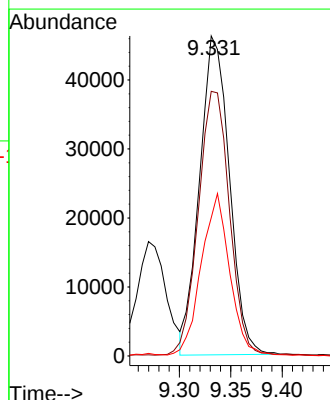
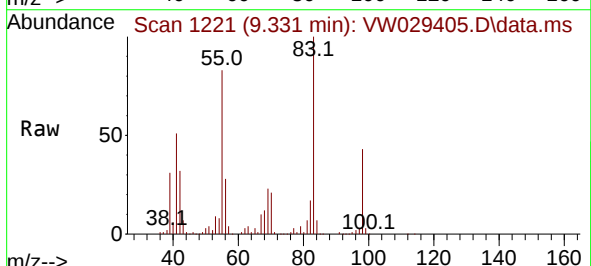
Tgt Ion: 83 Resp: 93316

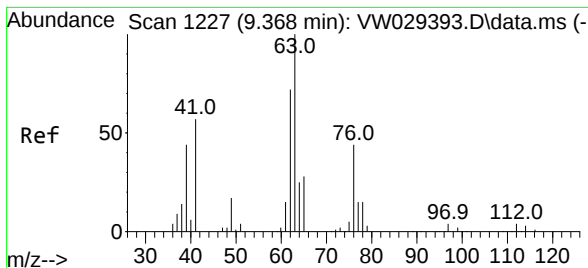
Ion Ratio Lower Upper

83 100

55 87.2 69.5 104.3

98 48.9 38.0 57.0

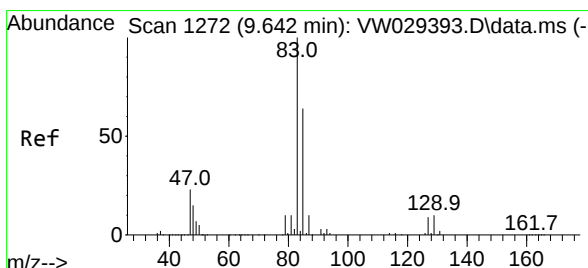
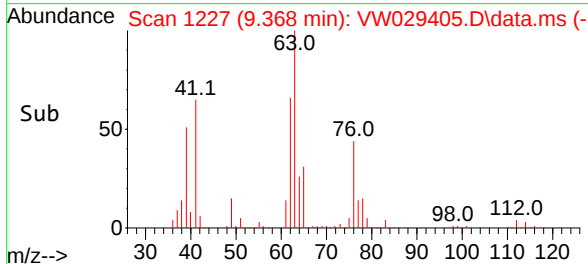
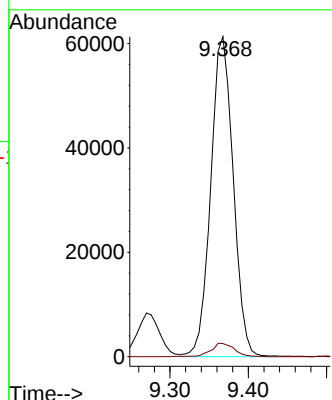
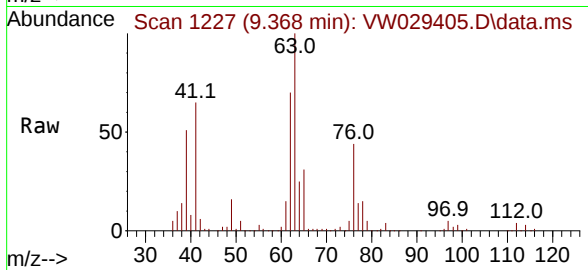




#37  
1,2-Dichloropropane  
Concen: 26.088 ug/L  
RT: 9.368 min Scan# 1227  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

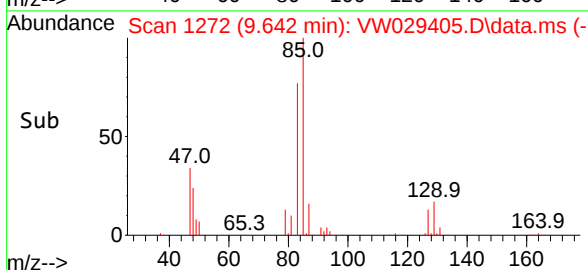
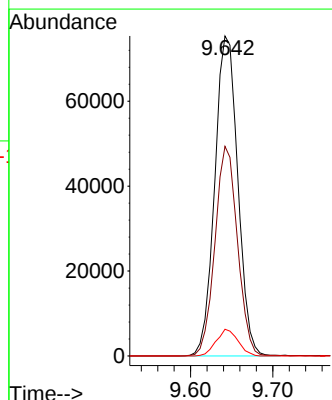
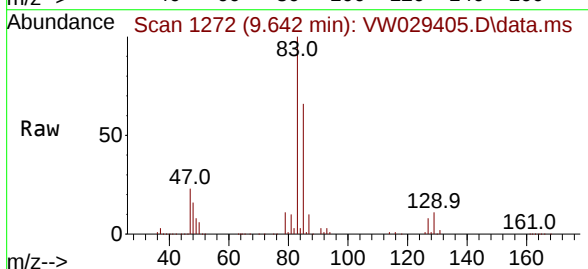
Instrument :  
MSVOA\_W  
ClientSampleId :  
A4CE1MS

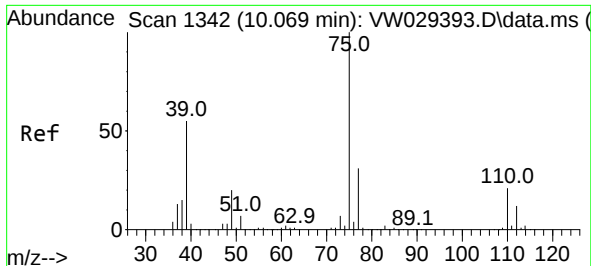
Tgt Ion: 63 Resp: 122375  
Ion Ratio Lower Upper  
63 100  
112 4.3 3.8 5.6



#38  
Bromodichloromethane  
Concen: 25.612 ug/L  
RT: 9.642 min Scan# 1272  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

Tgt Ion: 83 Resp: 146892  
Ion Ratio Lower Upper  
83 100  
85 65.5 45.1 83.9  
127 8.3 5.8 8.6





#39

cis-1,3-Dichloropropene

Concen: 22.891 ug/L

RT: 10.075 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Instrument :

MSVOA\_W

ClientSampleId :

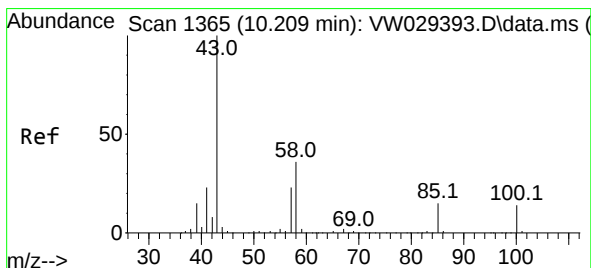
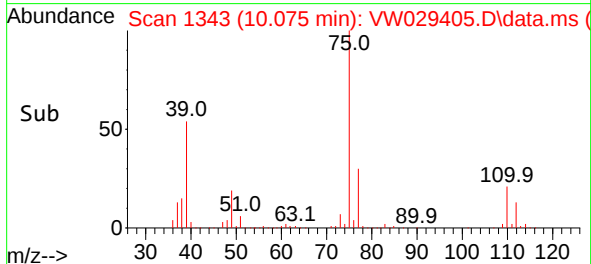
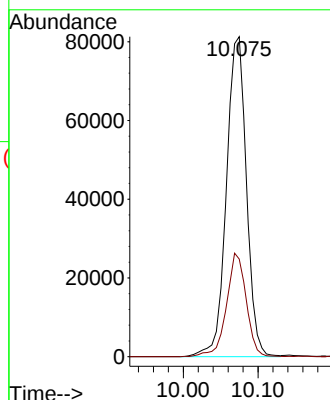
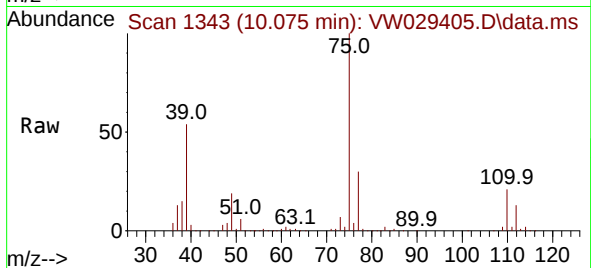
A4CE1MS

Tgt Ion: 75 Resp: 151783

Ion Ratio Lower Upper

75 100

77 30.5 22.7 42.1



#40

4-Methyl-2-pentanone

Concen: 51.528 ug/L

RT: 10.209 min Scan# 1365

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

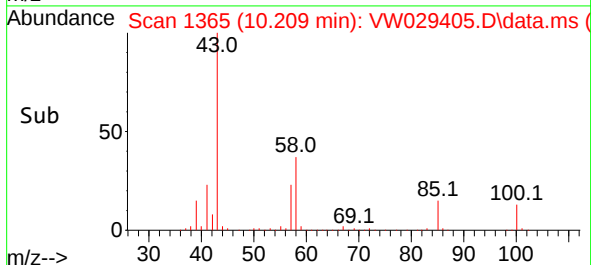
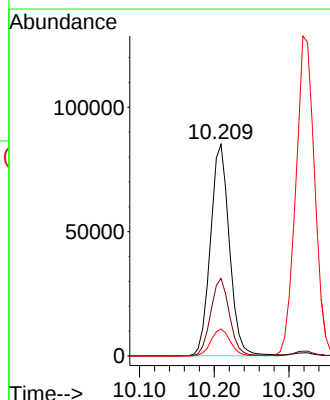
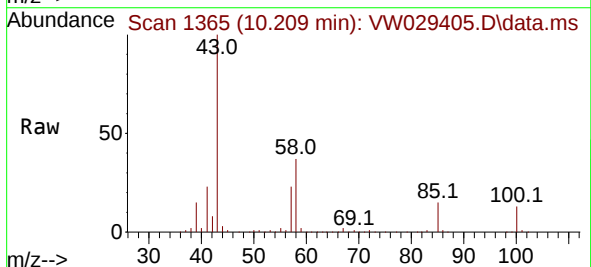
Tgt Ion: 43 Resp: 149813

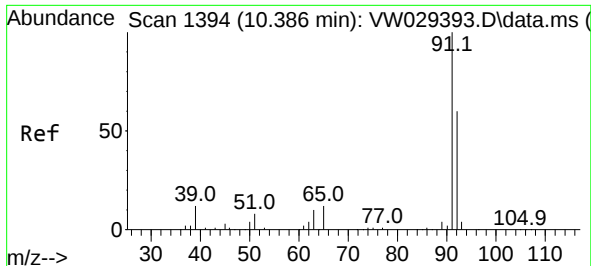
Ion Ratio Lower Upper

43 100

58 36.6 28.2 42.4

100 13.0 11.0 16.4

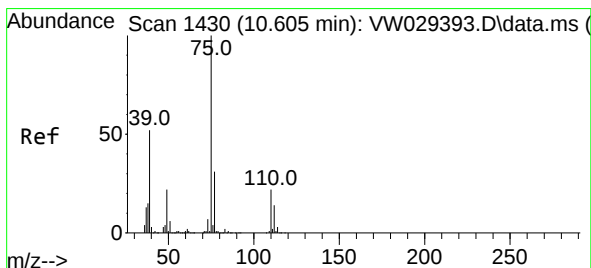
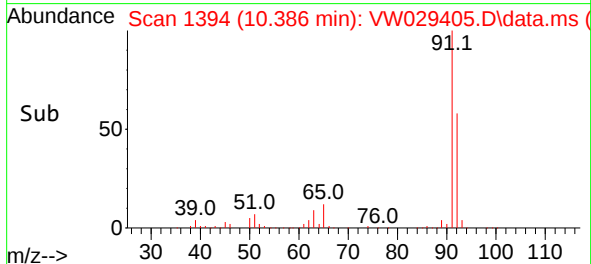
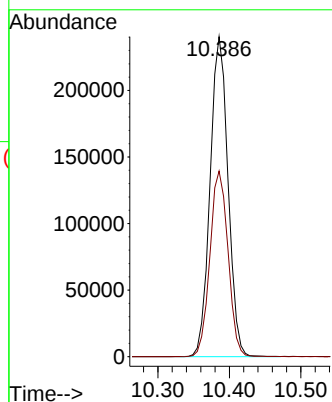
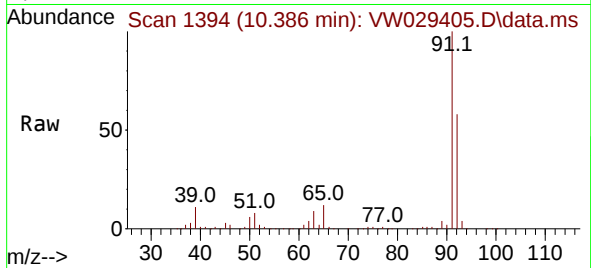




#42  
Toluene  
Concen: 24.391 ug/L  
RT: 10.386 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

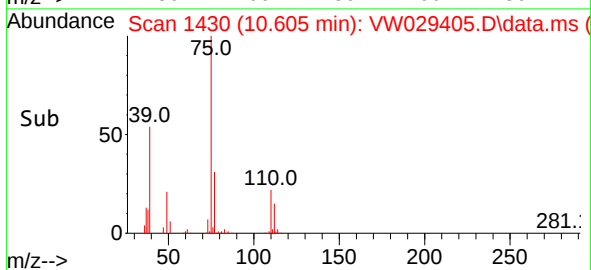
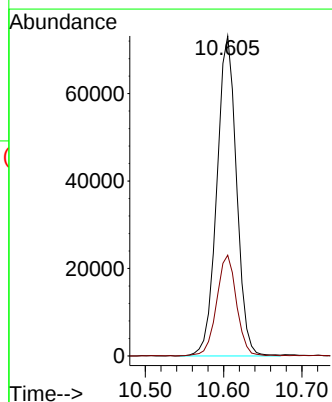
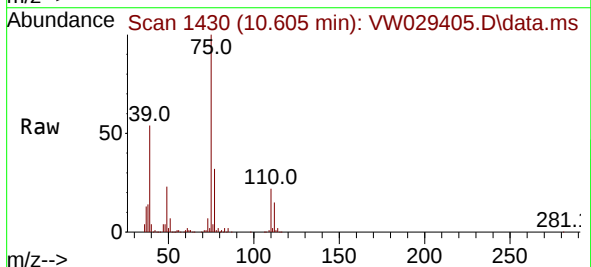
Instrument :  
MSVOA\_W  
ClientSampleId :  
A4CE1MS

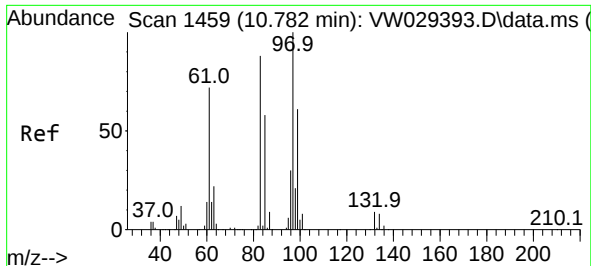
Tgt Ion: 91 Resp: 418593  
Ion Ratio Lower Upper  
91 100  
92 58.0 39.3 73.1



#44  
trans-1,3-Dichloropropene  
Concen: 22.845 ug/L  
RT: 10.605 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

Tgt Ion: 75 Resp: 127909  
Ion Ratio Lower Upper  
75 100  
77 31.5 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 24.963 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Instrument :

MSVOA\_W

ClientSampleId :

A4CE1MS

Tgt Ion: 97 Resp: 81554

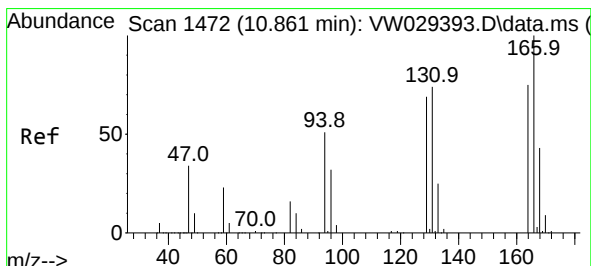
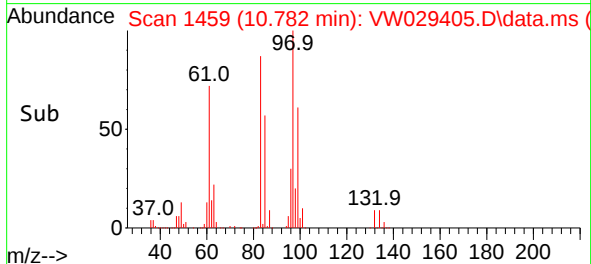
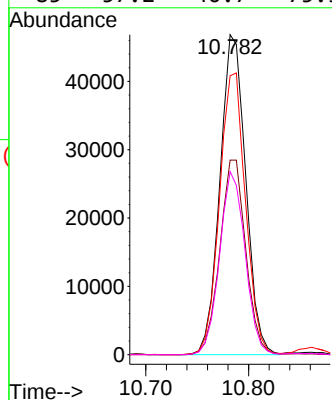
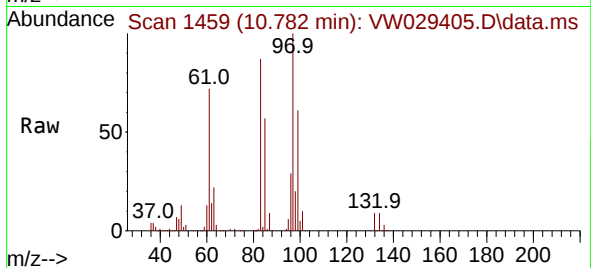
Ion Ratio Lower Upper

97 100

99 60.8 42.3 78.5

83 87.2 57.7 107.1

85 57.2 40.7 75.5



#46

Tetrachloroethene

Concen: 19.854 ug/L

RT: 10.861 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Tgt Ion:164 Resp: 61814

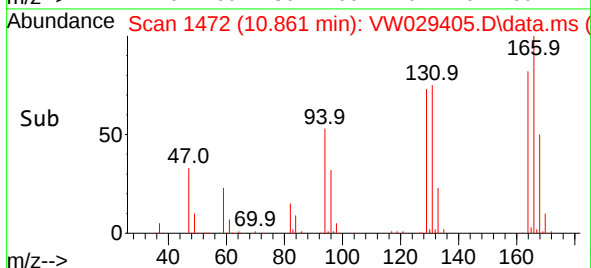
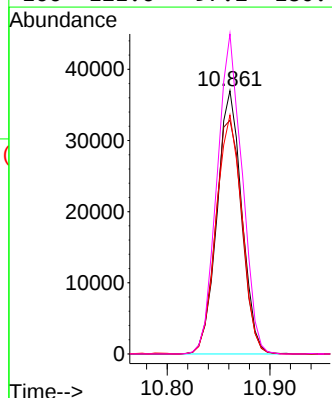
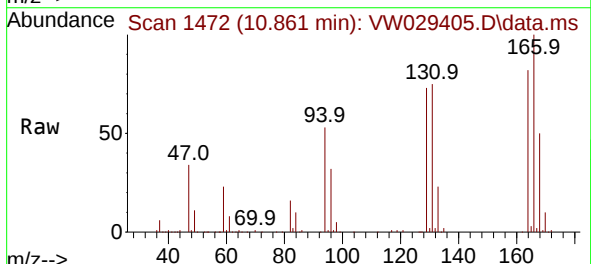
Ion Ratio Lower Upper

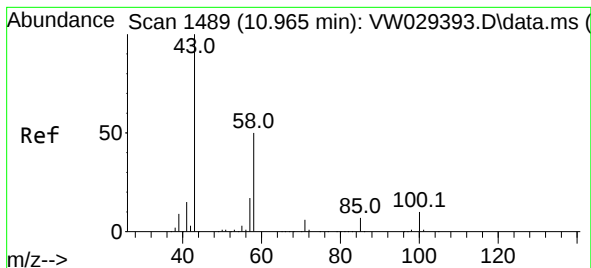
164 100

129 88.8 68.5 127.3

131 90.8 71.8 133.4

166 121.6 97.2 180.4





#48

2-Hexanone

Concen: 46.318 ug/L

RT: 10.965 min Scan# 1489

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Instrument :

MSVOA\_W

ClientSampleId :

A4CE1MS

Tgt Ion: 43 Resp: 95555

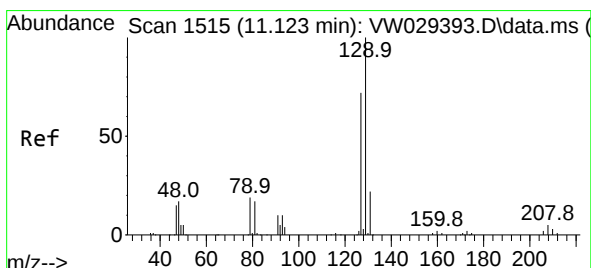
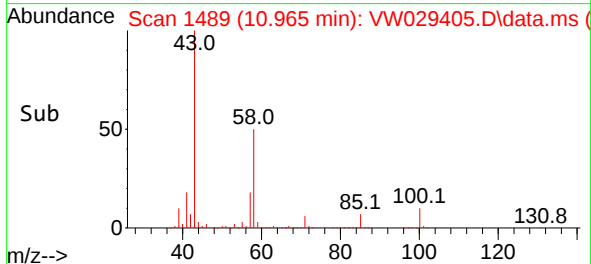
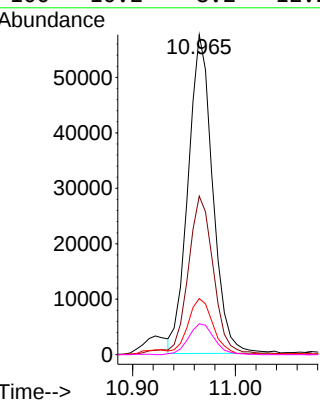
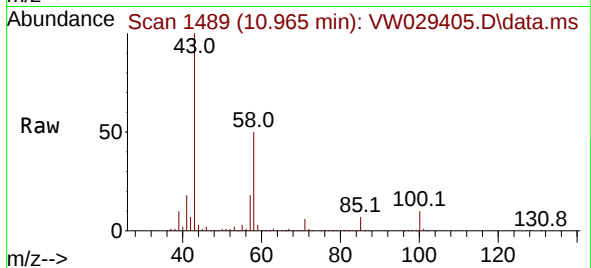
Ion Ratio Lower Upper

43 100

58 49.4 39.6 59.4

57 18.2 14.6 21.8

100 10.2 8.2 12.2



#49

Dibromochloromethane

Concen: 24.657 ug/L

RT: 11.123 min Scan# 1515

Delta R.T. -0.000 min

Lab File: VW029405.D

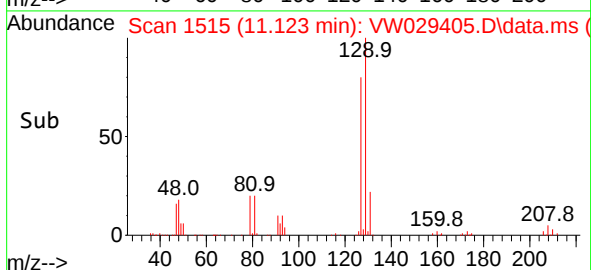
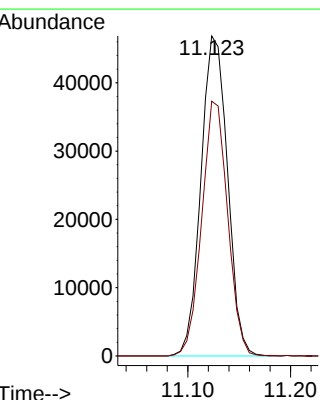
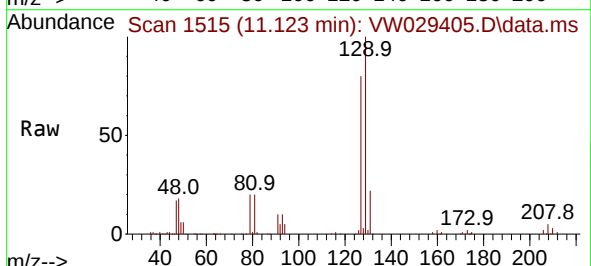
Acq: 28 Jun 2024 17:58

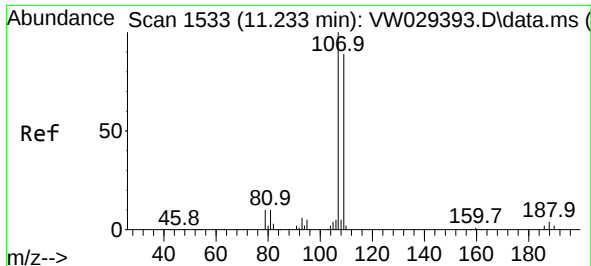
Tgt Ion: 129 Resp: 84205

Ion Ratio Lower Upper

129 100

127 79.6 54.8 101.8





#50

1,2-Dibromoethane

Concen: 23.632 ug/L

RT: 11.233 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Instrument :

MSVOA\_W

ClientSampleId :

A4CE1MS

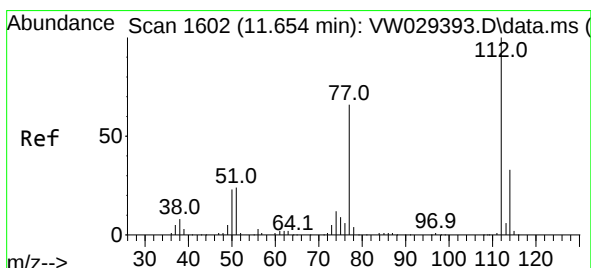
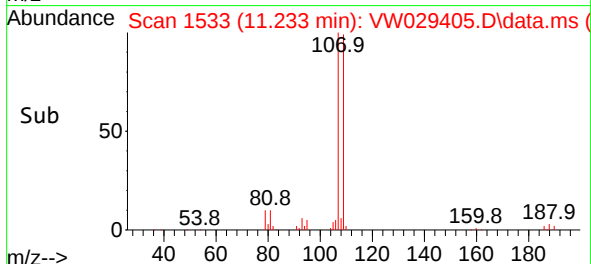
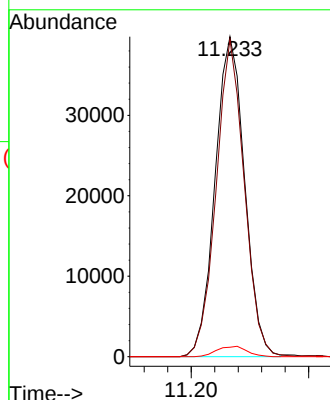
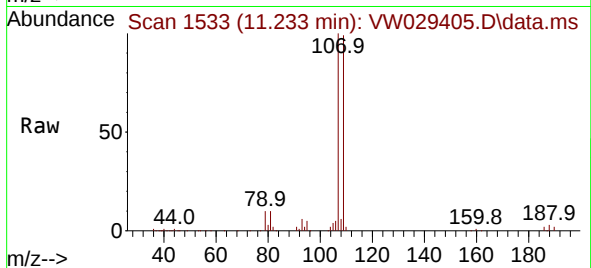
Tgt Ion:107 Resp: 69305

Ion Ratio Lower Upper

107 100

109 99.1 65.5 121.6

188 3.0 2.6 4.0



#51

Chlorobenzene

Concen: 20.889 ug/L

RT: 11.654 min Scan# 1602

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

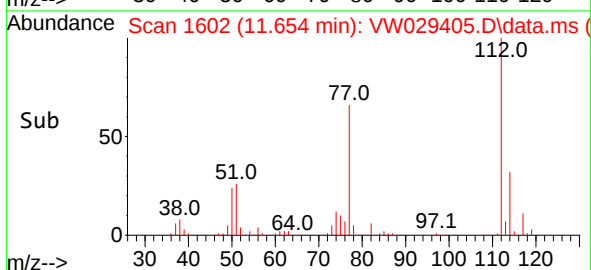
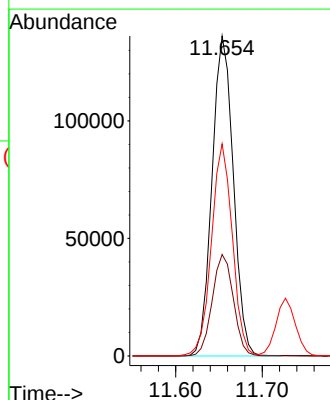
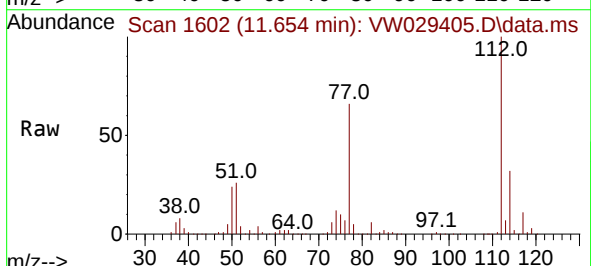
Tgt Ion:112 Resp: 232792

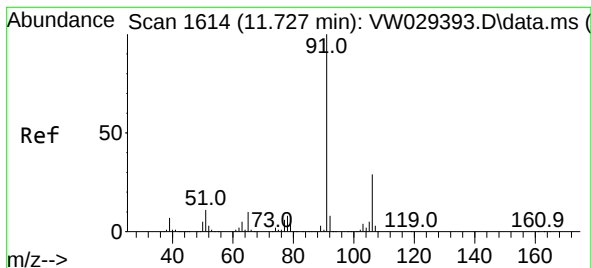
Ion Ratio Lower Upper

112 100

114 31.7 22.6 42.0

77 66.3 51.0 76.6

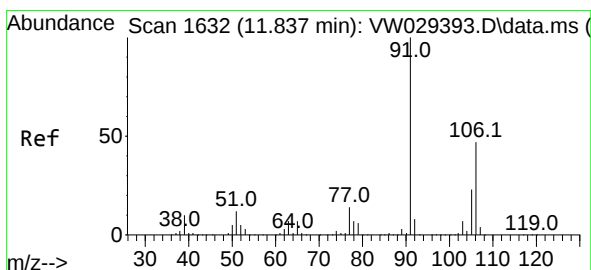
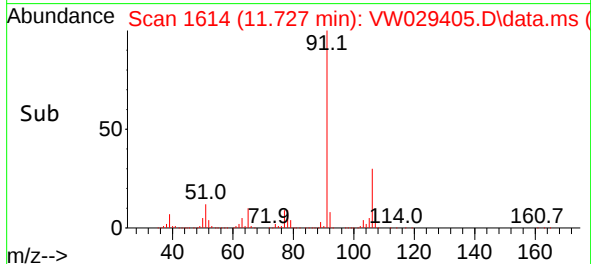
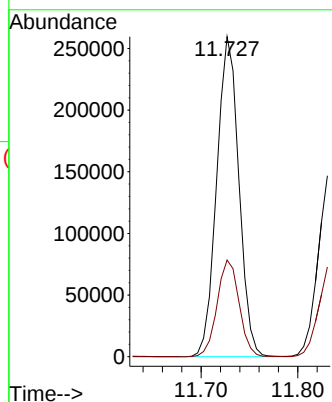
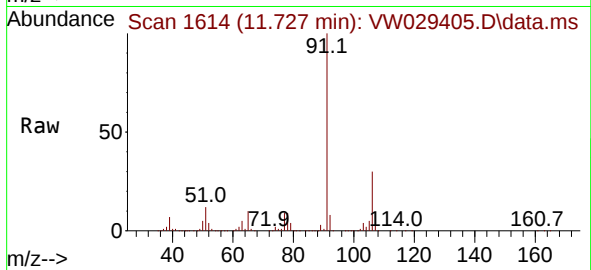




#52  
Ethylbenzene  
Concen: 21.207 ug/L  
RT: 11.727 min Scan# 1614  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

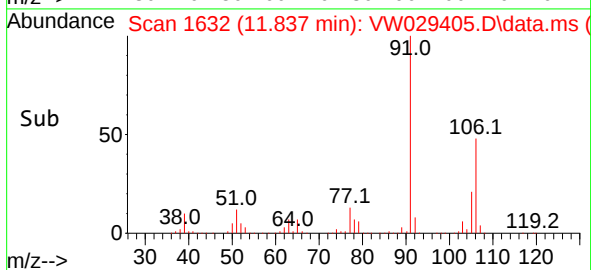
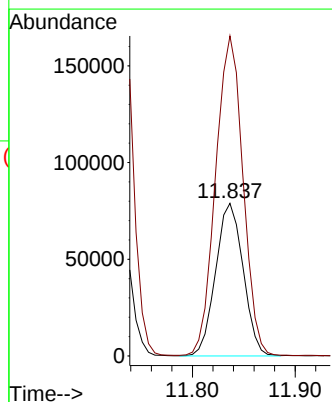
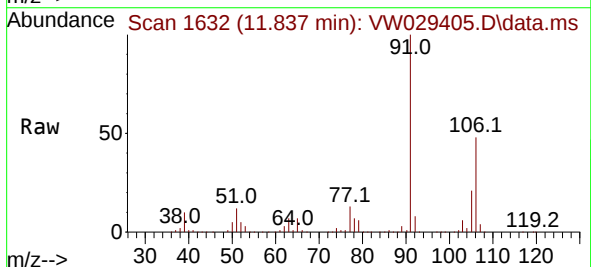
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MSVOA\_W  
ClientSampleId :  
A4CE1MS

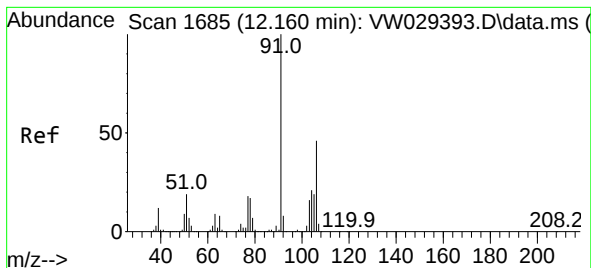
Tgt Ion: 91 Resp: 413124  
Ion Ratio Lower Upper  
91 100  
106 30.2 19.9 37.0



#53  
m,p-Xylene  
Concen: 20.650 ug/L  
RT: 11.837 min Scan# 1632  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

Tgt Ion:106 Resp: 146934  
Ion Ratio Lower Upper  
106 100  
91 209.6 140.5 260.9

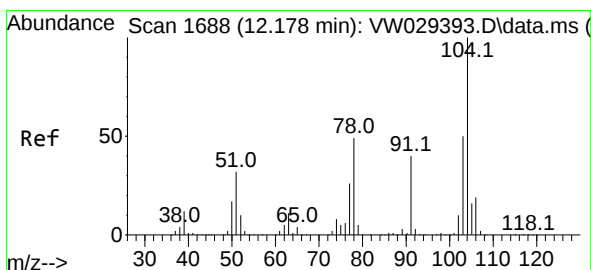
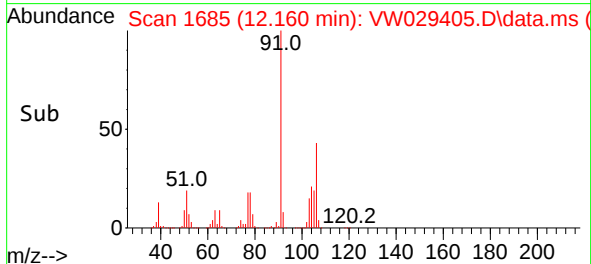
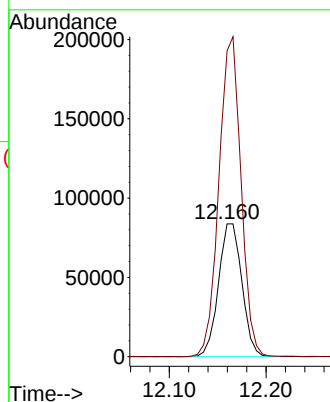
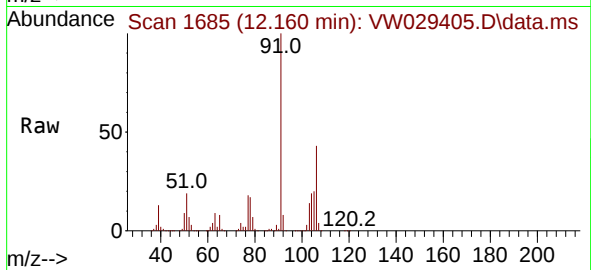




#54  
o-Xylene  
Concen: 21.144 ug/L  
RT: 12.160 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

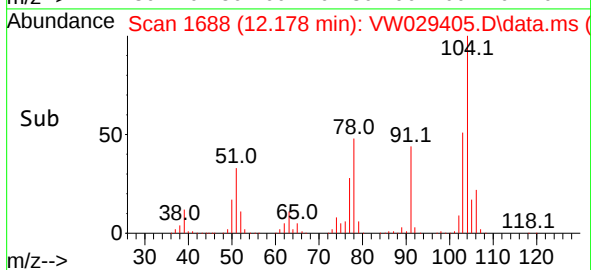
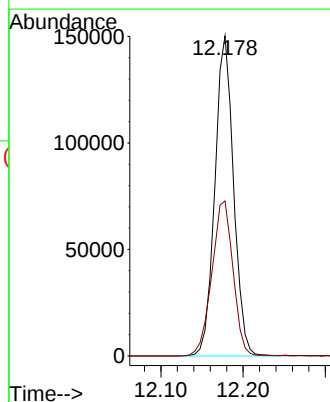
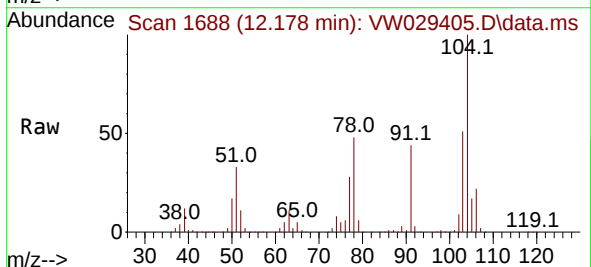
Instrument :  
MSVOA\_W  
ClientSampleId :  
A4CE1MS

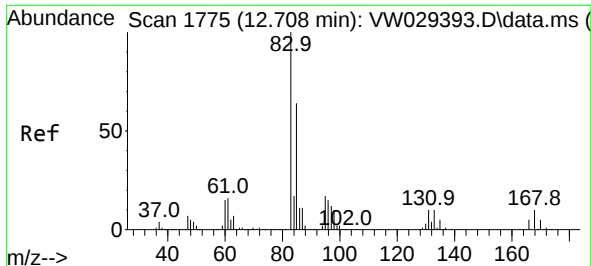
Tgt Ion:106 Resp: 140609  
Ion Ratio Lower Upper  
106 100  
91 230.2 149.9 278.5



#55  
Styrene  
Concen: 20.456 ug/L  
RT: 12.178 min Scan# 1688  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

Tgt Ion:104 Resp: 237184  
Ion Ratio Lower Upper  
104 100  
78 48.4 35.4 65.7





#57

1,1,2,2-Tetrachloroethane

Concen: 21.641 ug/L

RT: 12.708 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Instrument :

MSVOA\_W

ClientSampleId :

A4CE1MS

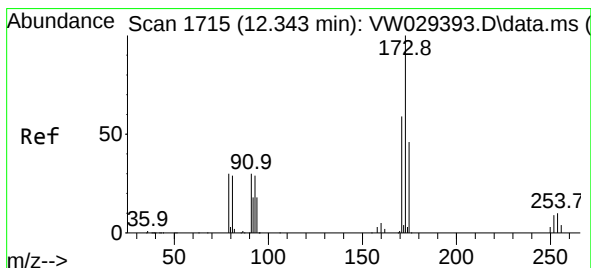
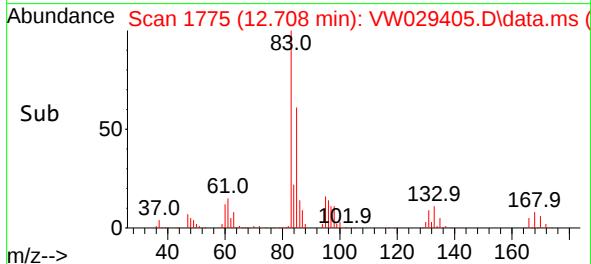
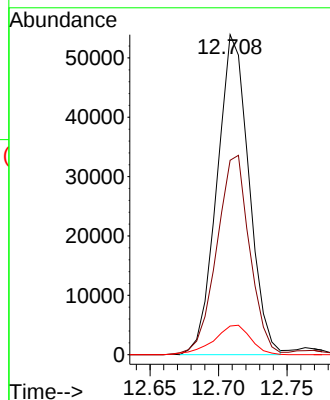
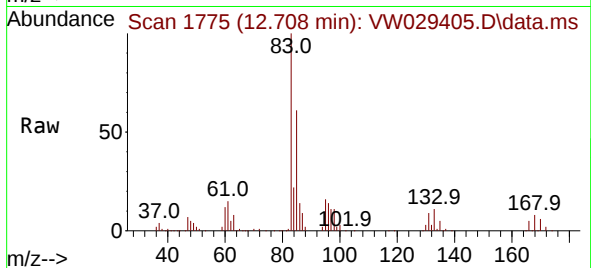
Tgt Ion: 83 Resp: 87453

Ion Ratio Lower Upper

83 100

85 60.8 45.8 85.0

131 8.9 7.8 11.6



#59

Bromoform

Concen: 34.929 ug/L

RT: 12.349 min Scan# 1716

Delta R.T. 0.006 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

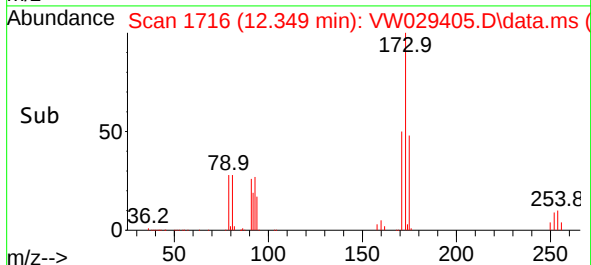
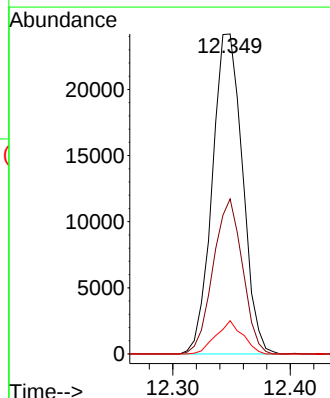
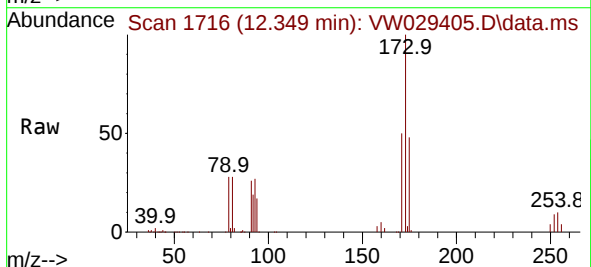
Tgt Ion:173 Resp: 43243

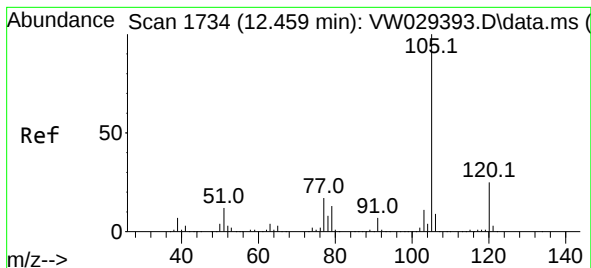
Ion Ratio Lower Upper

173 100

175 47.0 37.8 56.8

254 9.2 7.8 11.6





#60

Isopropylbenzene

Concen: 28.509 ug/L

RT: 12.458 min Scan# 11

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Instrument :

MSVOA\_W

ClientSampleId :

A4CE1MS

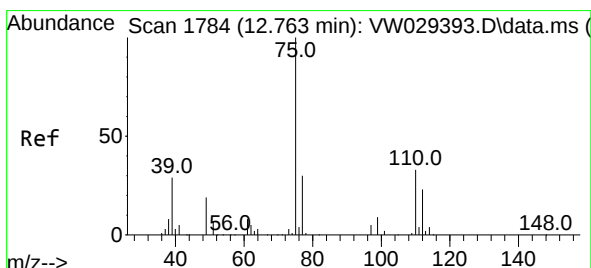
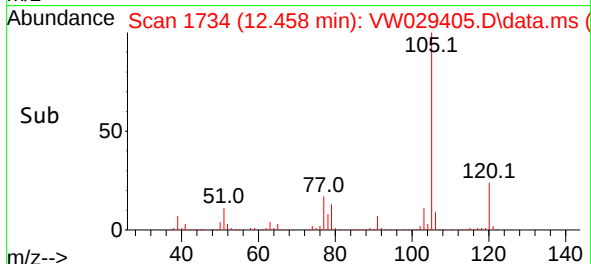
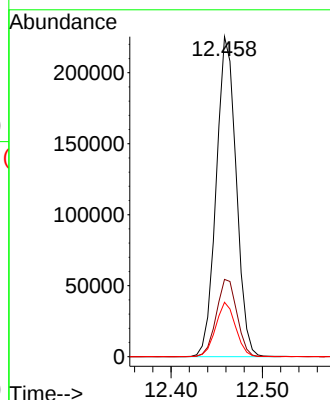
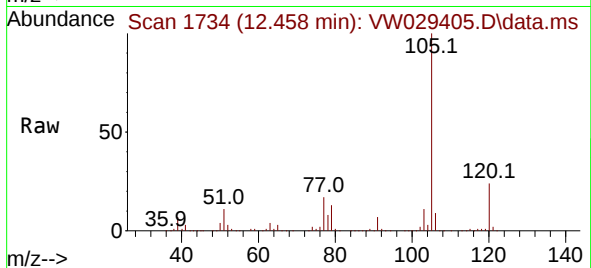
Tgt Ion:105 Resp: 343135

Ion Ratio Lower Upper

105 100

120 24.9 20.5 30.7

77 17.0 13.6 20.4



#61

1,2,3-Trichloropropane

Concen: 34.593 ug/L

RT: 12.763 min Scan# 1784

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

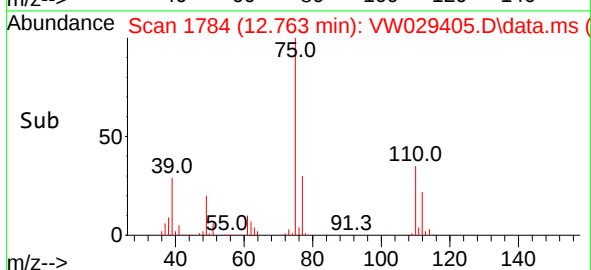
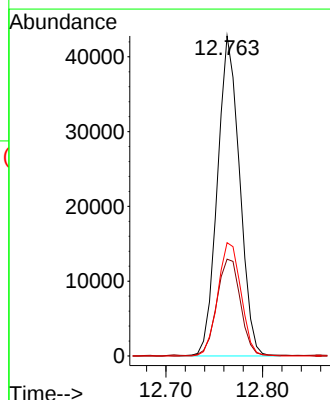
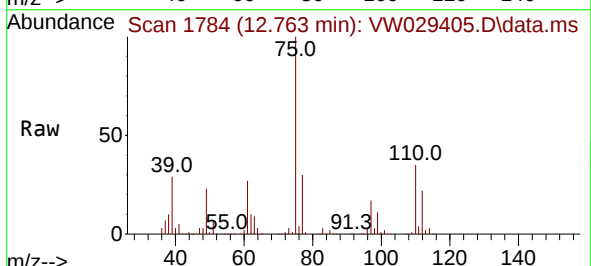
Tgt Ion: 75 Resp: 68156

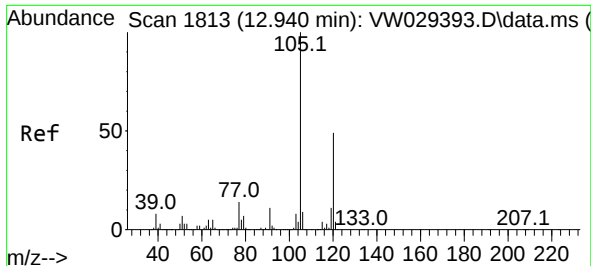
Ion Ratio Lower Upper

75 100

77 32.4 26.6 39.8

110 36.9 29.5 44.3

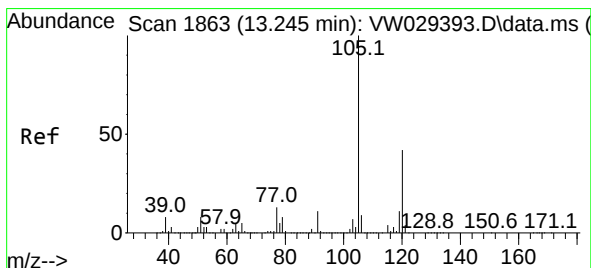
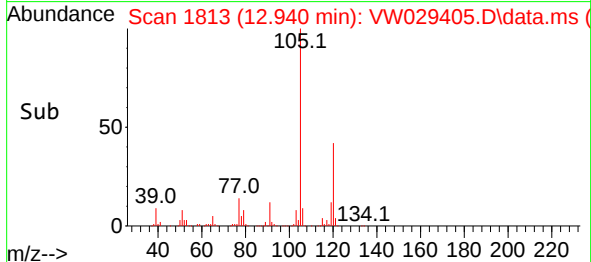
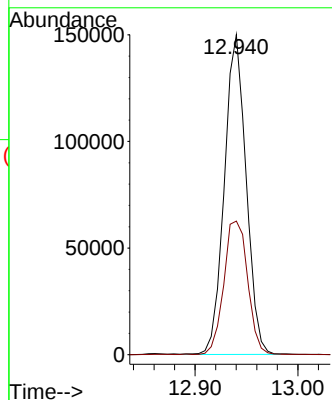
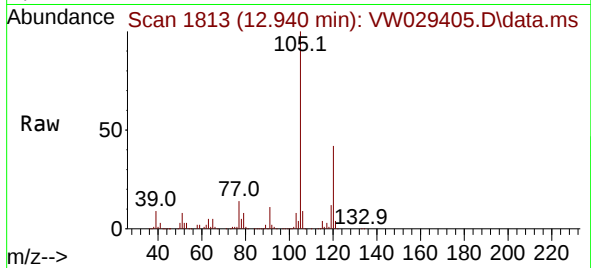




#62  
 1,3,5-Trimethylbenzene  
 Concen: 25.324 ug/L  
 RT: 12.940 min Scan# 1813  
 Delta R.T. -0.000 min  
 Lab File: VW029405.D  
 Acq: 28 Jun 2024 17:58

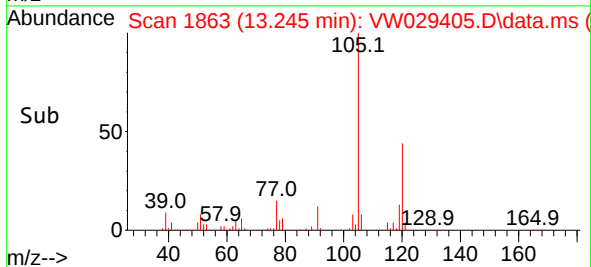
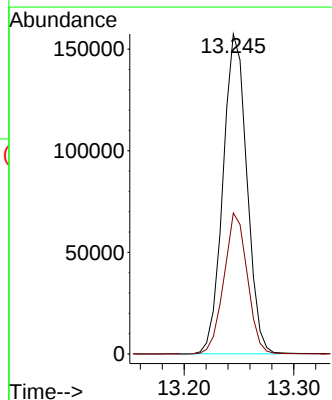
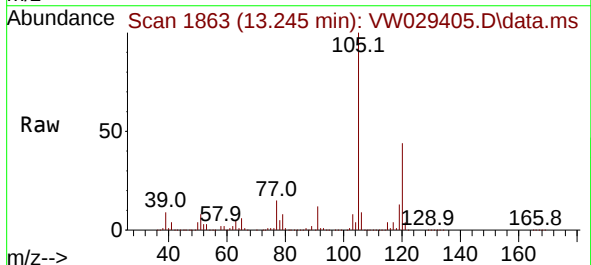
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 A4CE1MS

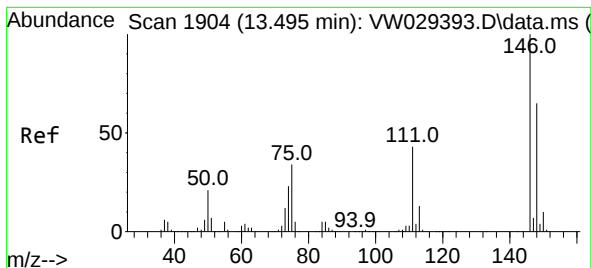
Tgt Ion:105 Resp: 220741  
 Ion Ratio Lower Upper  
 105 100  
 120 46.0 36.4 54.6



#63  
 1,2,4-Trimethylbenzene  
 Concen: 25.427 ug/L  
 RT: 13.245 min Scan# 1863  
 Delta R.T. -0.000 min  
 Lab File: VW029405.D  
 Acq: 28 Jun 2024 17:58

Tgt Ion:105 Resp: 238469  
 Ion Ratio Lower Upper  
 105 100  
 120 43.2 34.9 52.3





#64

1,3-Dichlorobenzene

Concen: 21.993 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Instrument :

MSVOA\_W

ClientSampleId :

A4CE1MS

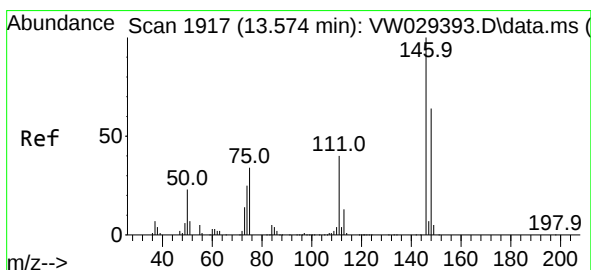
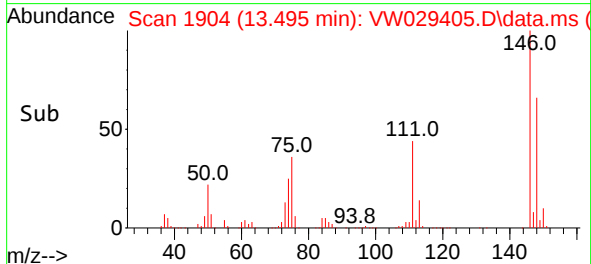
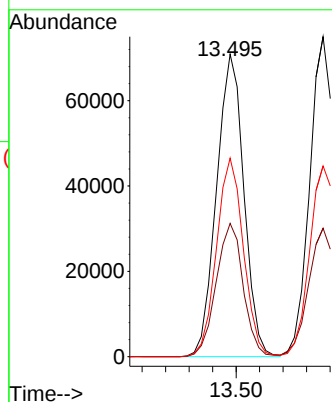
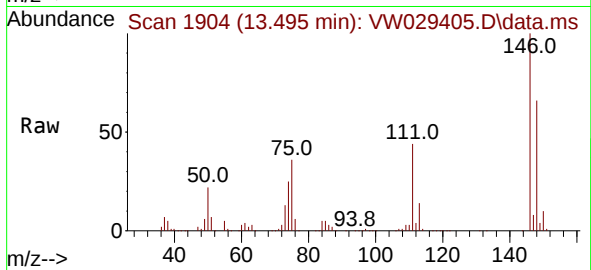
Tgt Ion:146 Resp: 114554

Ion Ratio Lower Upper

146 100

111 44.0 33.0 61.2

148 65.6 47.5 88.1



#65

1,4-Dichlorobenzene

Concen: 21.096 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

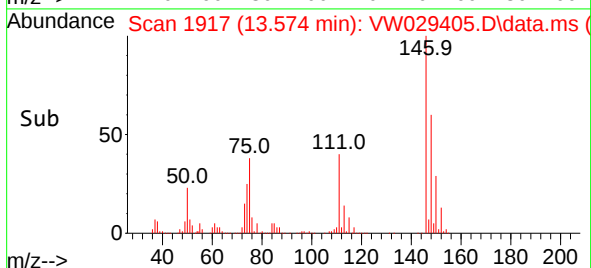
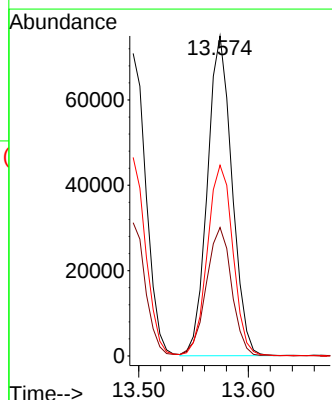
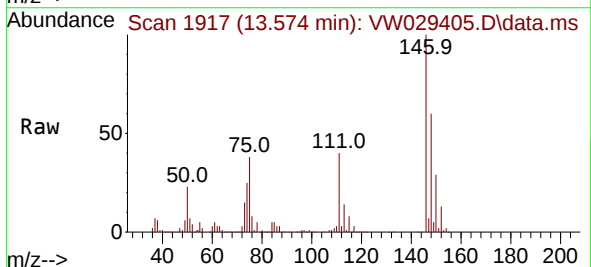
Tgt Ion:146 Resp: 116912

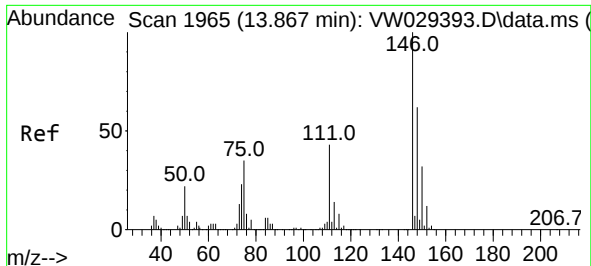
Ion Ratio Lower Upper

146 100

111 40.1 28.9 53.7

148 59.6 42.0 78.0





#67

1,2-Dichlorobenzene

Concen: 21.577 ug/L

RT: 13.861 min Scan# 1965

Delta R.T. -0.006 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Instrument :

MSVOA\_W

ClientSampleId :

A4CE1MS

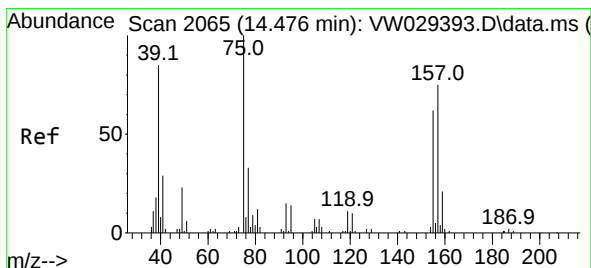
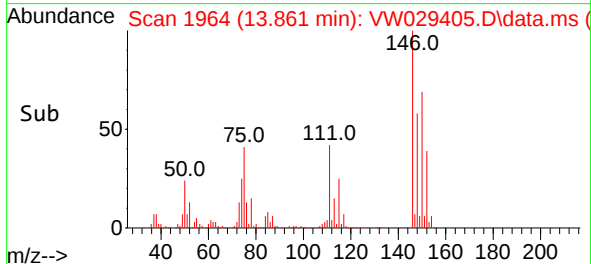
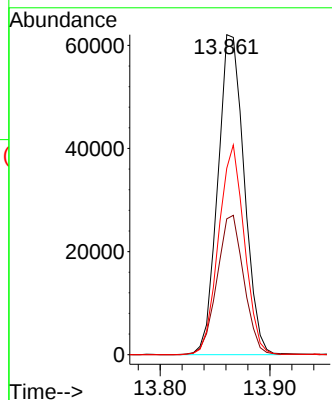
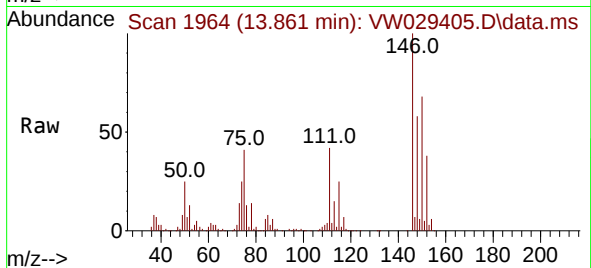
Tgt Ion:146 Resp: 103898

Ion Ratio Lower Upper

146 100

111 42.4 34.2 51.4

148 58.2 46.3 69.5



#68

1,2-Dibromo-3-chloropropane

Concen: 28.164 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

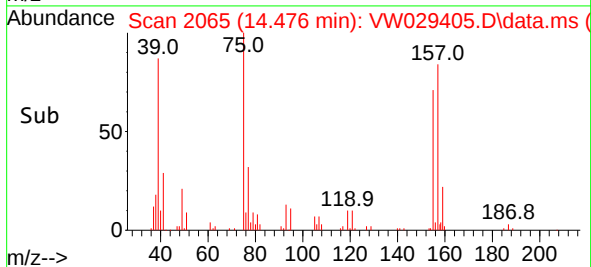
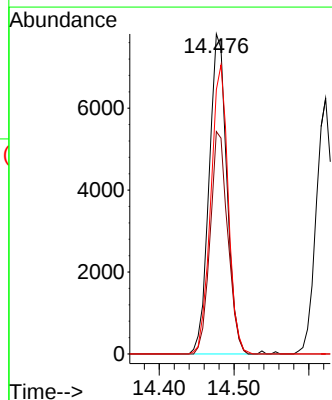
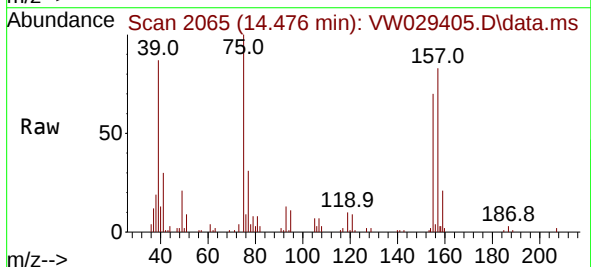
Tgt Ion: 75 Resp: 12949

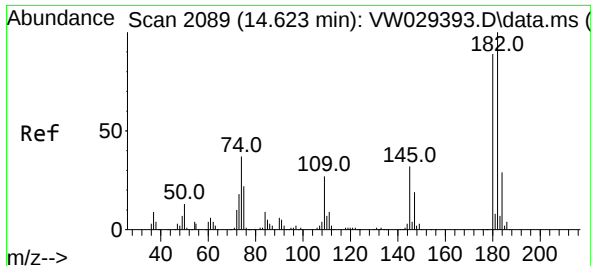
Ion Ratio Lower Upper

75 100

155 69.5 51.0 76.6

157 82.6 58.8 88.2

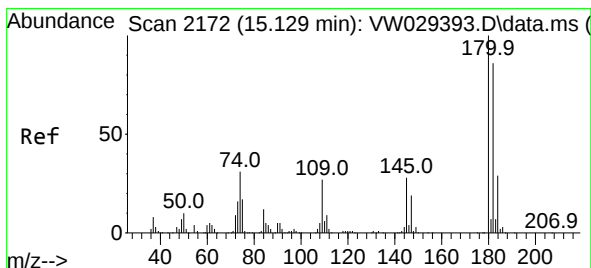
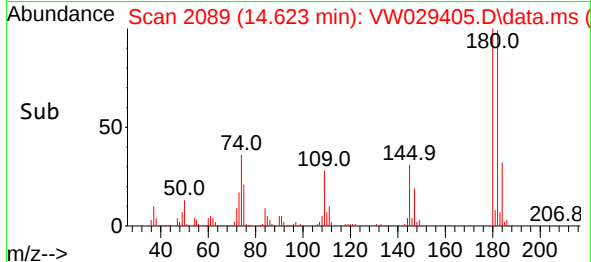
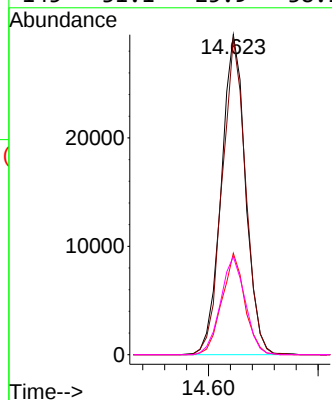
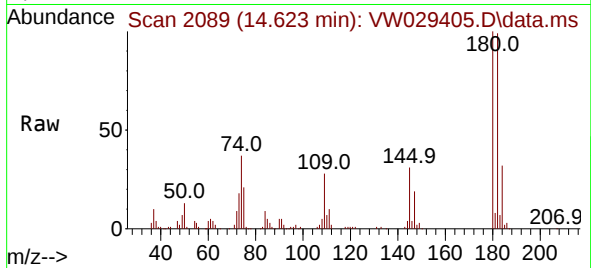




#69  
1,3,5-Trichlorobenzene  
Concen: 12.847 ug/L  
RT: 14.623 min Scan# 2089  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

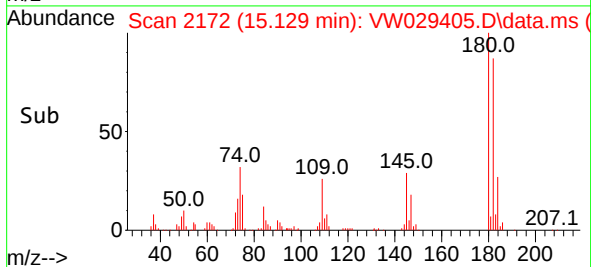
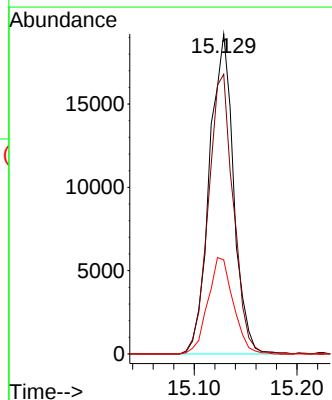
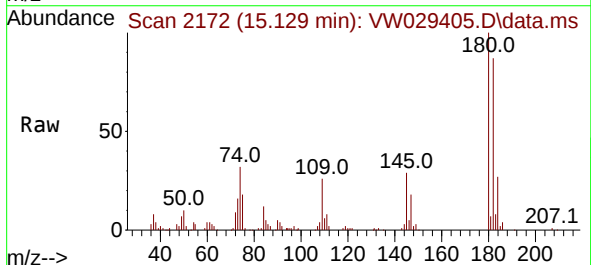
Instrument :  
MSVOA\_W  
ClientSampleId :  
A4CE1MS

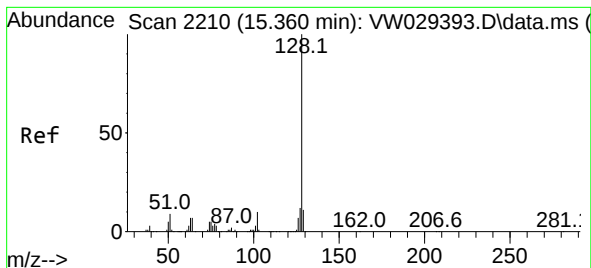
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 45161      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.0  | 72.9 109.3 |
| 184         | 29.9  | 23.8 35.6  |
| 145         | 31.1  | 25.9 38.9  |



#70  
1,2,4-trichlorobenzene  
Concen: 10.965 ug/L  
RT: 15.129 min Scan# 2172  
Delta R.T. -0.000 min  
Lab File: VW029405.D  
Acq: 28 Jun 2024 17:58

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 31245      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 90.5  | 77.7 116.5 |
| 145         | 31.8  | 25.7 38.5  |





#71

Naphthalene

Concen: 14.196 ug/L

RT: 15.360 min Scan# 21

Delta R.T. -0.000 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Instrument :

MSVOA\_W

ClientSampleId :

A4CE1MS

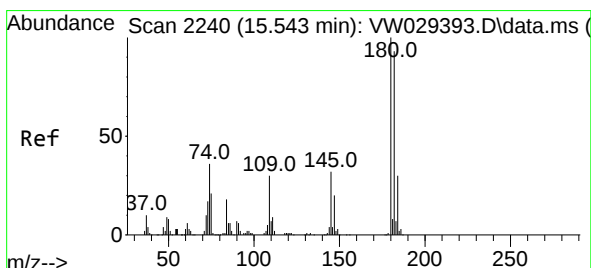
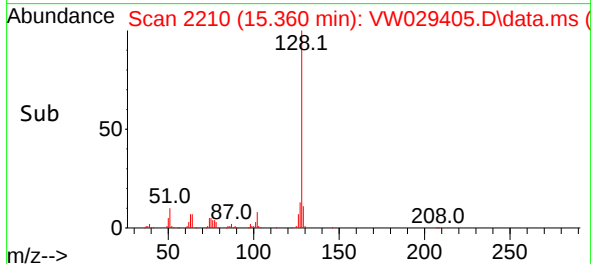
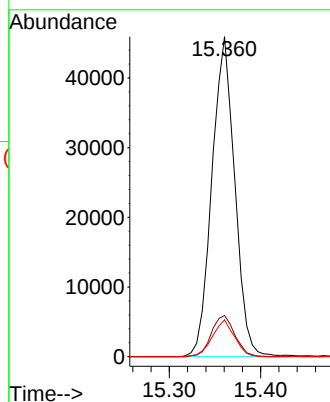
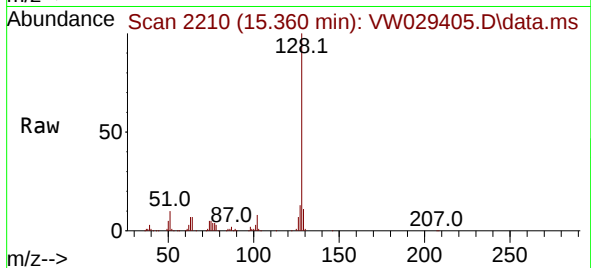
Tgt Ion:128 Resp: 79843

Ion Ratio Lower Upper

128 100

127 13.2 10.3 15.5

129 11.2 8.9 13.3



#72

1,2,3-Trichlorobenzene

Concen: 9.684 ug/L

RT: 15.549 min Scan# 2241

Delta R.T. 0.006 min

Lab File: VW029405.D

Acq: 28 Jun 2024 17:58

Tgt Ion:180 Resp: 25143

Ion Ratio Lower Upper

180 100

182 94.1 73.0 109.6

145 33.7 28.1 42.1

