

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX092525\  
 Data File : VX047833.D  
 Acq On : 26 Sep 2025 04:55  
 Operator : JC/MD  
 Sample : Q3156-06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D4-20250918

Quant Time: Sep 26 06:55:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091625W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 17 06:39:58 2025  
 Response via : Initial Calibration

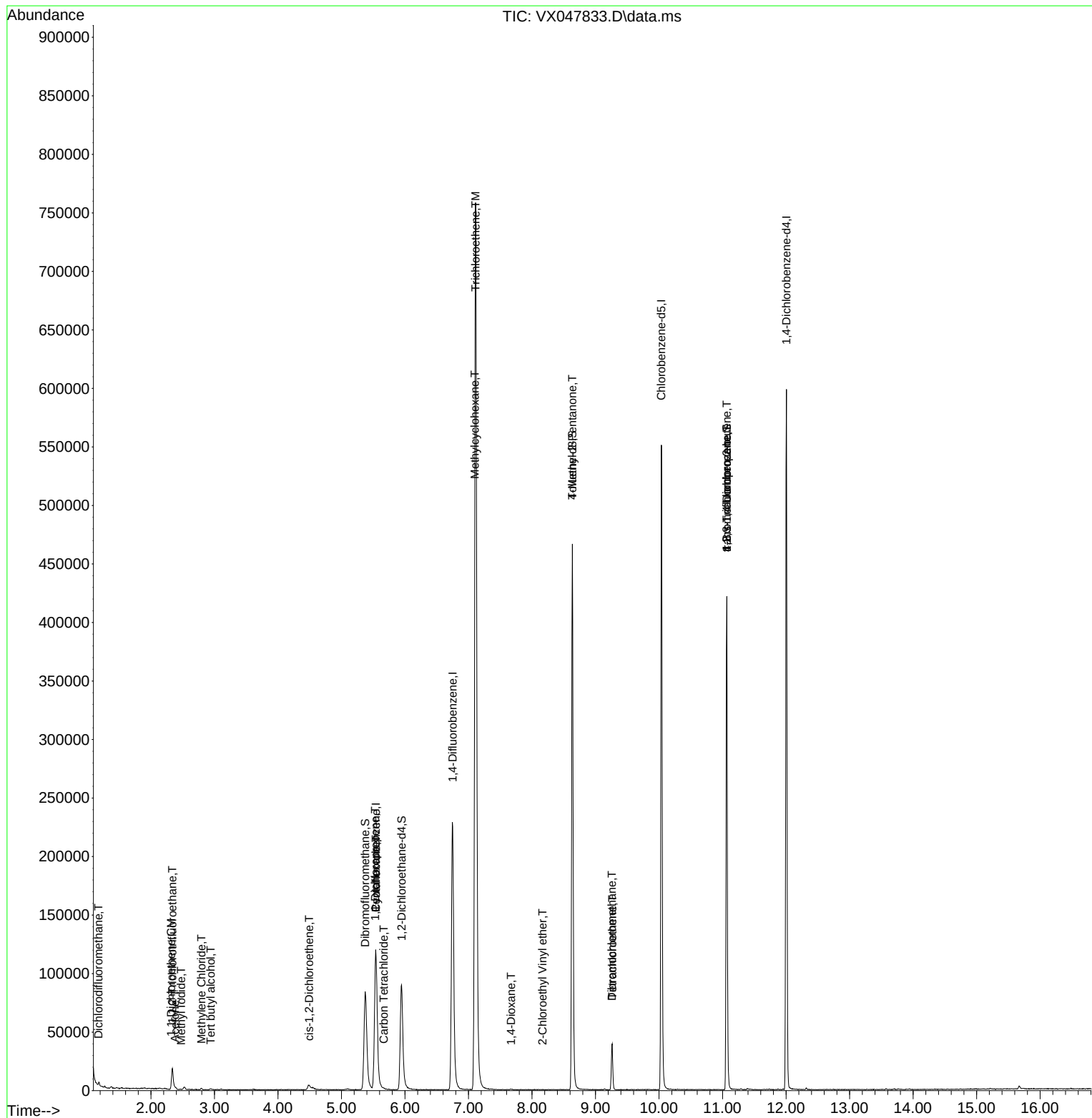
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.544  | 168   | 120727   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.751  | 114   | 252679   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.037 | 117   | 253654   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.006 | 152   | 126267   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.946  | 65    | 97683    | 50.832   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 101.660% |          |
| 35) Dibromofluoromethane      | 5.373  | 113   | 82065    | 48.427   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 96.860%  |          |
| 50) Toluene-d8                | 8.635  | 98    | 282460   | 48.171   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 96.340%  |          |
| 62) 4-Bromofluorobenzene      | 11.067 | 95    | 117374   | 52.744   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 105.480% |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.172  | 85    | 877      | 0.702    | ug/l       | 87       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.337  | 101   | 7171     | 5.135    | ug/l       | 94       |
| 10) Methyl Iodide             | 2.477  | 142   | 437      | 0.201    | ug/l #     | 84       |
| 11) Tert butyl alcohol        | 2.940  | 59    | 129      | 0.603    | ug/l #     | 72       |
| 12) 1,1-Dichloroethene        | 2.319  | 96    | 713      | 0.497    | ug/l #     | 79       |
| 16) Acetone                   | 2.380  | 43    | 1829     | 2.189    | ug/l       | 91       |
| 20) Methylene Chloride        | 2.794  | 84    | 561      | 0.317    | ug/l #     | 91       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 2872     | 1.519    | ug/l       | 81       |
| 31) Cyclohexane               | 5.544  | 56    | 2754     | 1.085    | ug/l #     | 16       |
| 36) 1,1-Dichloropropene       | 5.531  | 75    | 9977     | 4.029    | ug/l #     | 52       |
| 38) Carbon Tetrachloride      | 5.666  | 117   | 1012     | 0.376    | ug/l #     | 70       |
| 39) Methylcyclohexane         | 7.098  | 83    | 4225     | 1.503    | ug/l #     | 1        |
| 44) Trichloroethene           | 7.110  | 130   | 315650   | 173.598  | ug/l       | 96       |
| 49) 1,4-Dioxane               | 7.671  | 88    | 472      | 21.563   | ug/l #     | 33       |
| 51) 4-Methyl-2-Pentanone      | 8.635  | 43    | 1296     | 0.538    | ug/l #     | 1        |
| 58) 2-Chloroethyl Vinyl ether | 8.165  | 63    | 19       | 7.907    | ug/l #     | 47       |
| 60) Dibromochloromethane      | 9.256  | 129   | 7699     | 3.740    | ug/l #     | 11       |
| 64) Tetrachloroethene         | 9.262  | 164   | 7903     | 4.779    | ug/l       | 91       |
| 76) 1,2,3-Trichloropropane    | 11.067 | 75    | 60908    | 23.825   | ug/l #     | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.067 | 75    | 60908    | 60.756   | ug/l #     | 8        |

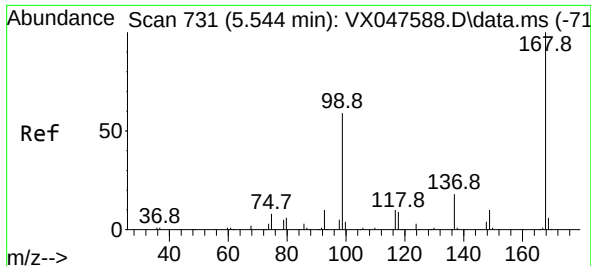
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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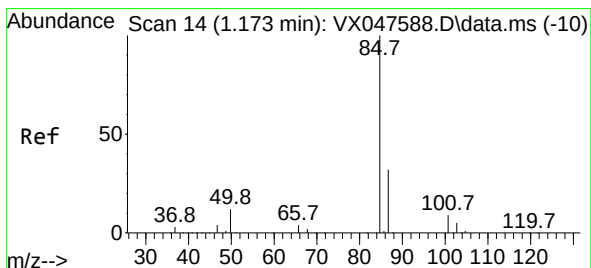
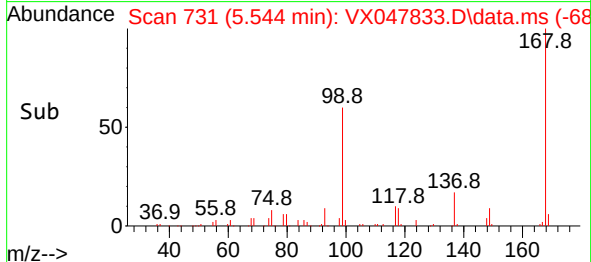
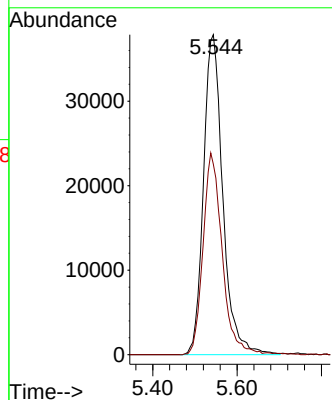
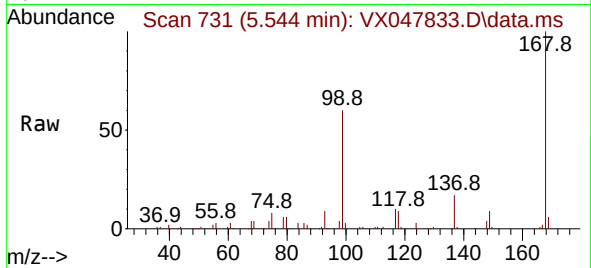




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

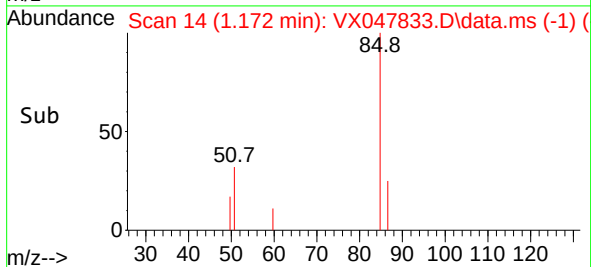
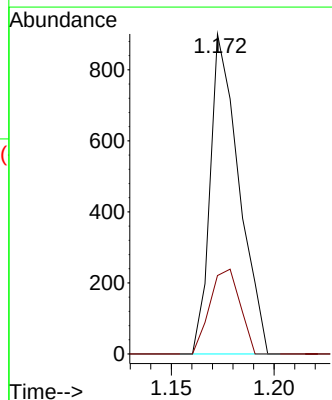
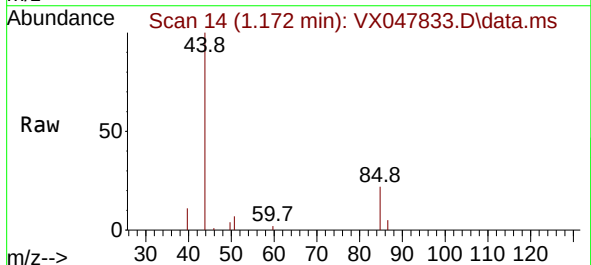
Instrument : MSVOA\_X  
ClientSampleId : RE132D4-20250918

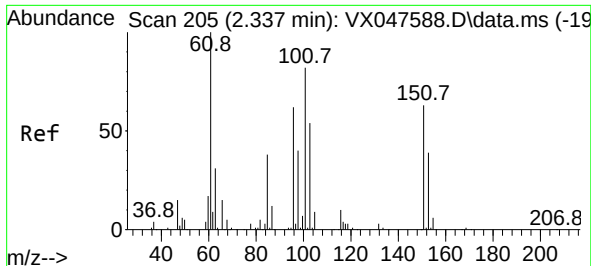
Tgt Ion:168 Resp: 120727  
Ion Ratio Lower Upper  
168 100  
99 59.6 48.8 73.2



#2  
Dichlorodifluoromethane  
Concen: 0.702 ug/l  
RT: 1.172 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

Tgt Ion: 85 Resp: 877  
Ion Ratio Lower Upper  
85 100  
87 24.5 15.8 47.3

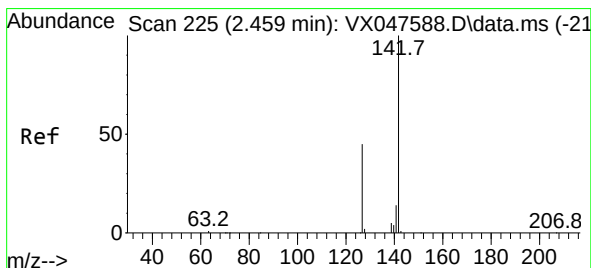
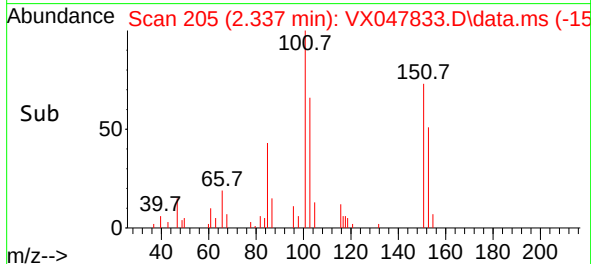
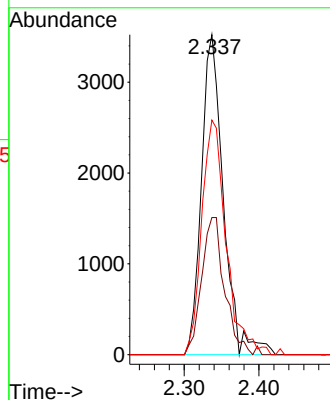
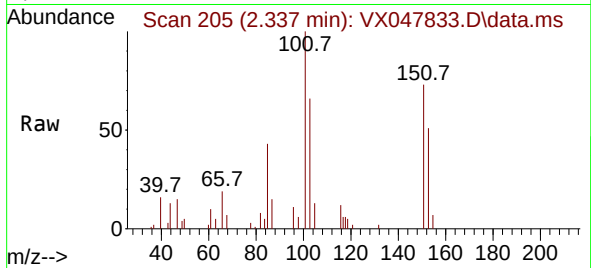




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 5.135 ug/l  
RT: 2.337 min Scan# 205  
Delta R.T. -0.000 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

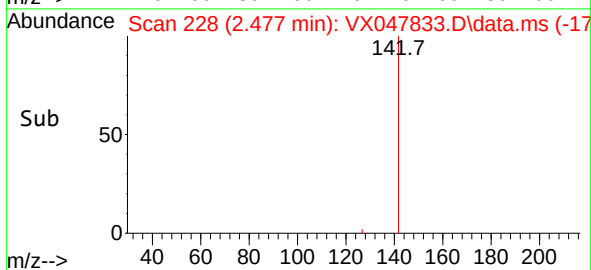
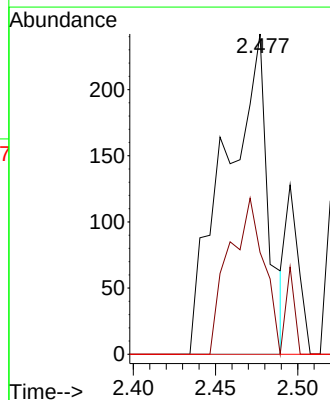
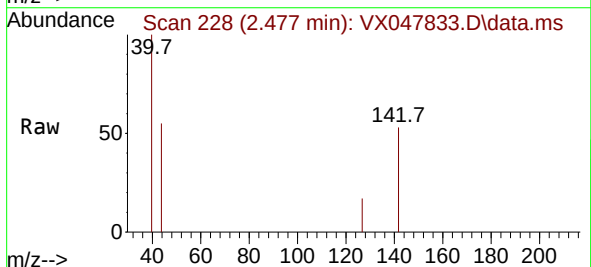
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20250918

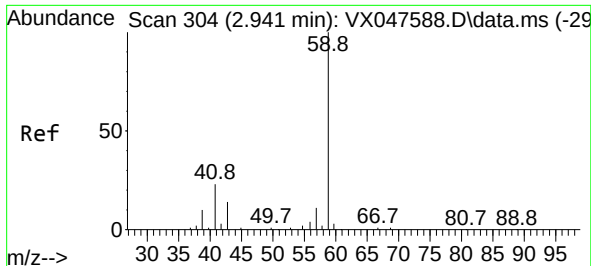
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 101   | Resp: | 7171  |
| Ion      | Ratio | Lower | Upper |
| 101      | 100   |       |       |
| 85       | 44.8  | 35.5  | 53.3  |
| 151      | 81.4  | 59.4  | 89.0  |



#10  
Methyl Iodide  
Concen: 0.201 ug/l  
RT: 2.477 min Scan# 228  
Delta R.T. 0.018 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 437   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 127      | 40.0  | 37.2  | 55.8  |
| 141      | 0.0   | 11.4  | 17.0  |

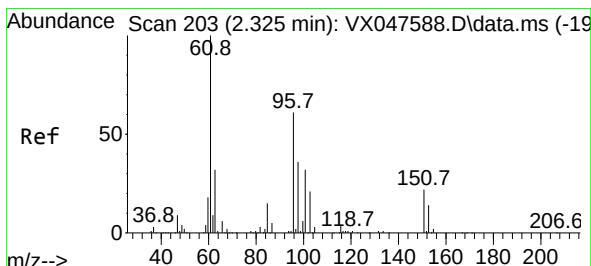
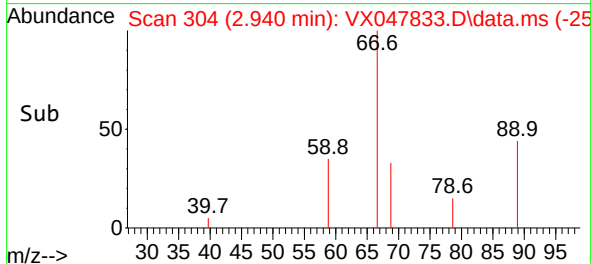
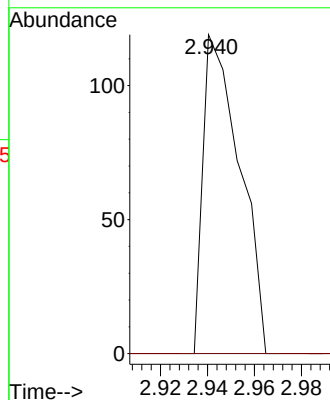
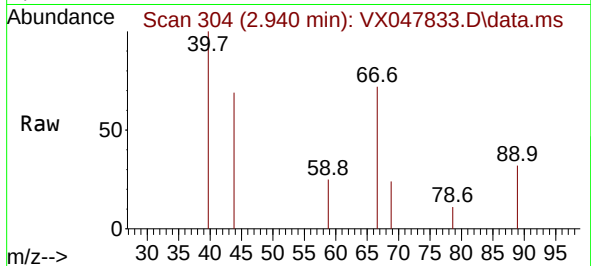




#11  
Tert butyl alcohol  
Concen: 0.603 ug/l  
RT: 2.940 min Scan# 304  
Delta R.T. -0.000 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

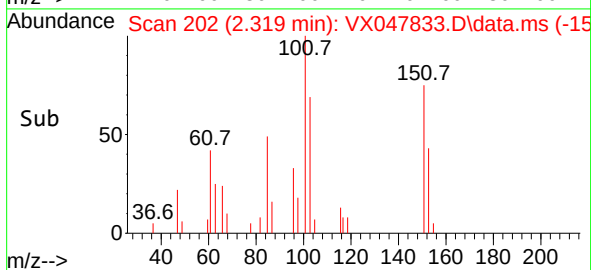
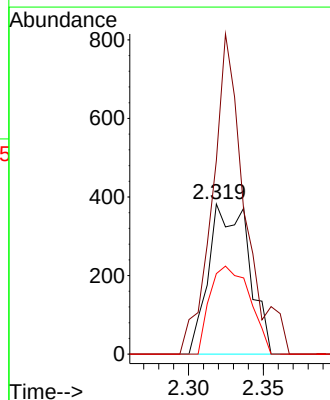
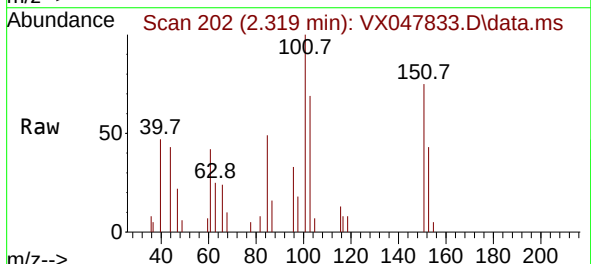
Instrument :  
MSVOA\_X  
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RE132D4-20250918

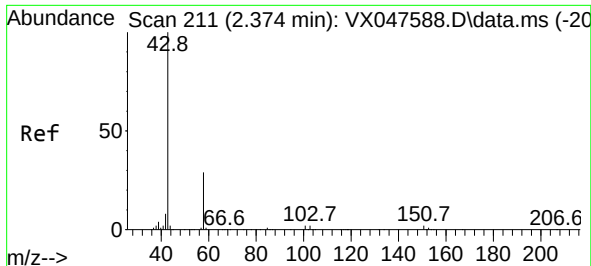
Tgt Ion: 59 Resp: 129  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#12  
1,1-Dichloroethene  
Concen: 0.497 ug/l  
RT: 2.319 min Scan# 202  
Delta R.T. -0.006 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

Tgt Ion: 96 Resp: 713  
Ion Ratio Lower Upper  
96 100  
61 129.1 131.0 196.6#  
98 53.7 47.7 71.5

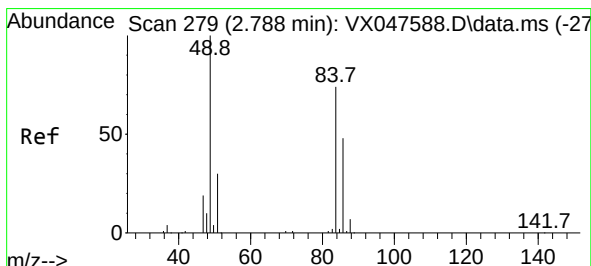
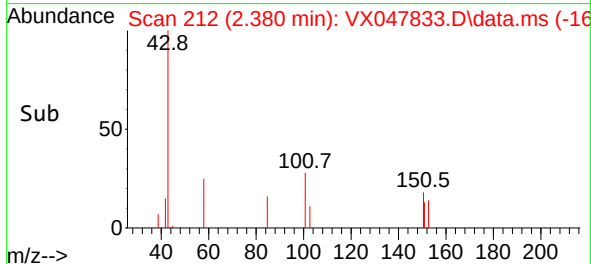
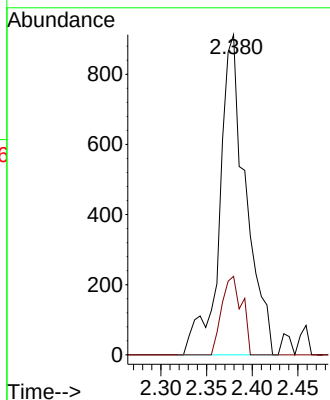
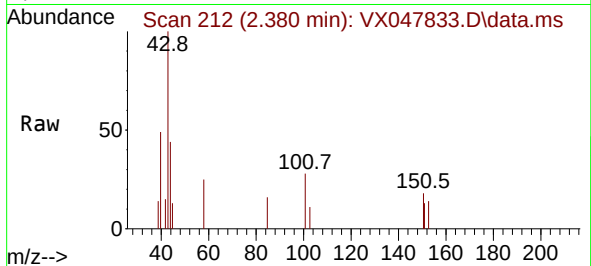




#16  
Acetone  
Concen: 2.189 ug/l  
RT: 2.380 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

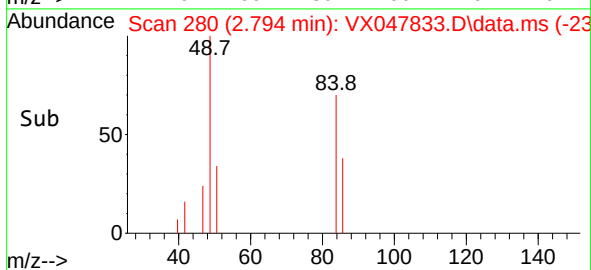
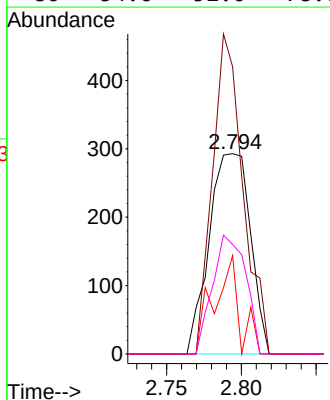
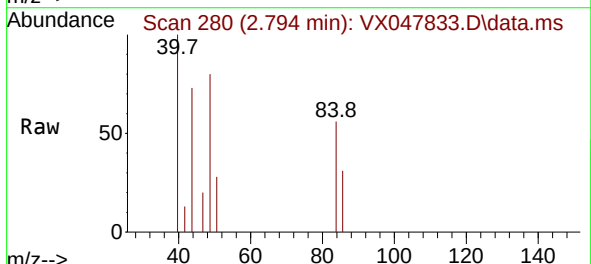
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20250918

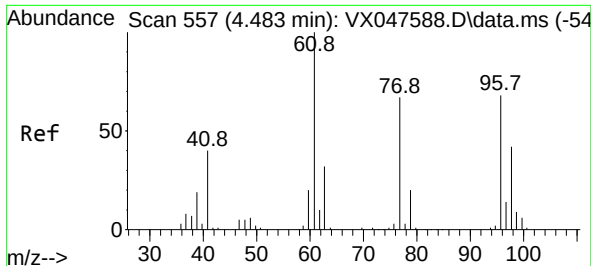
Tgt Ion: 43 Resp: 1829  
Ion Ratio Lower Upper  
43 100  
58 24.5 23.4 35.0



#20  
Methylene Chloride  
Concen: 0.317 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.006 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

Tgt Ion: 84 Resp: 561  
Ion Ratio Lower Upper  
84 100  
49 143.3 108.6 162.8  
51 49.1 32.6 48.8#  
86 54.6 52.0 78.0





#27

cis-1,2-Dichloroethene

Concen: 1.519 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX047833.D

Acq: 26 Sep 2025 04:55

Instrument :

MSVOA\_X

ClientSampleId :

RE132D4-20250918

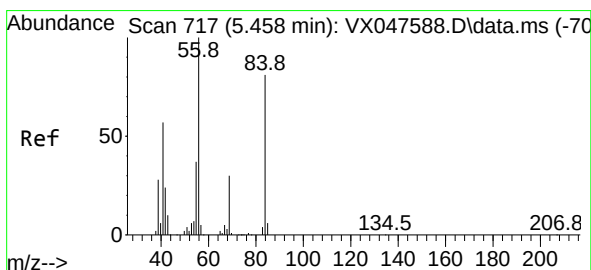
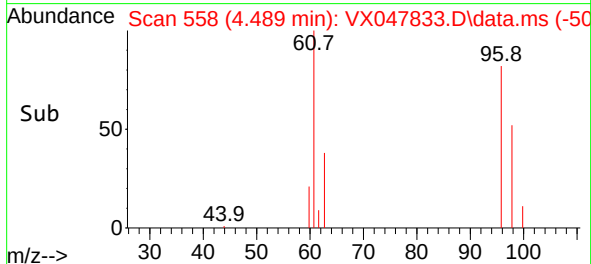
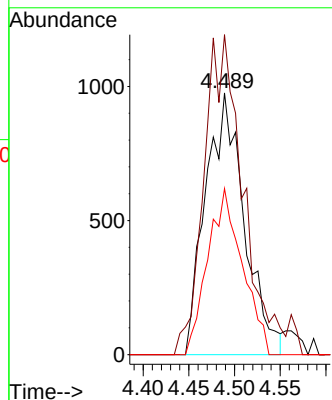
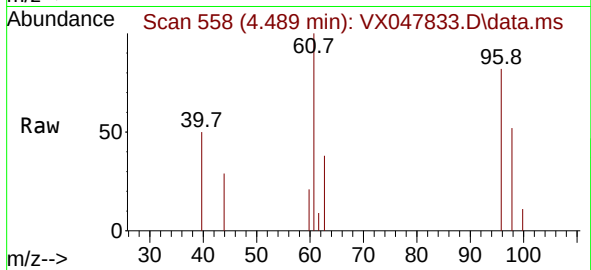
Tgt Ion: 96 Resp: 2872

Ion Ratio Lower Upper

96 100

61 122.9 0.0 303.2

98 56.7 0.0 127.8



#31

Cyclohexane

Concen: 1.085 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.085 min

Lab File: VX047833.D

Acq: 26 Sep 2025 04:55

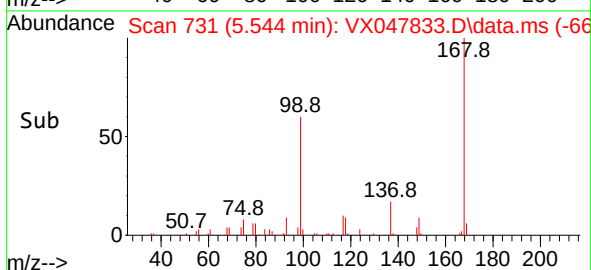
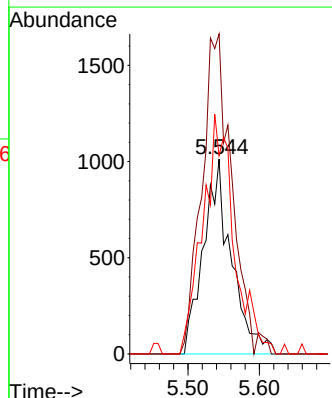
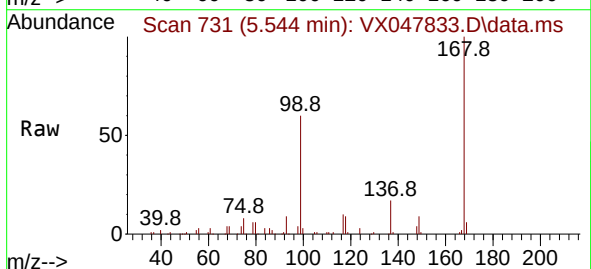
Tgt Ion: 56 Resp: 2754

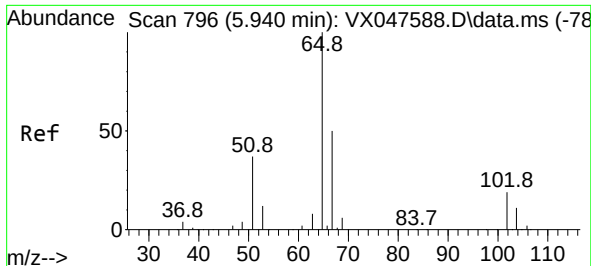
Ion Ratio Lower Upper

56 100

69 164.2 23.8 35.8#

84 101.8 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 50.832 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047833.D

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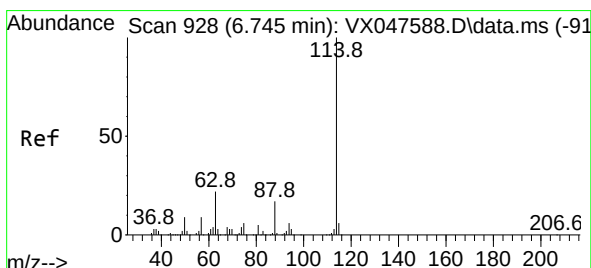
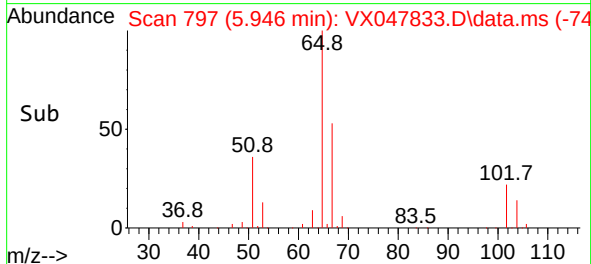
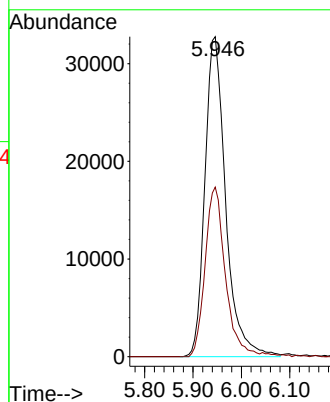
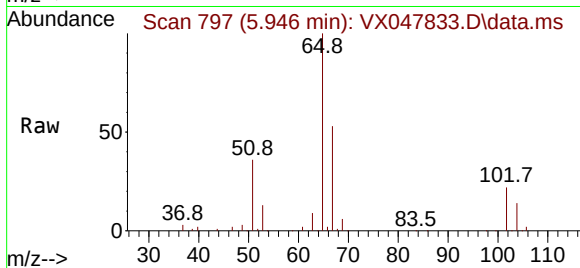
RE132D4-20250918

Tgt Ion: 65 Resp: 97683

Ion Ratio Lower Upper

65 100

67 51.4 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX047833.D

Acq: 26 Sep 2025 04:55

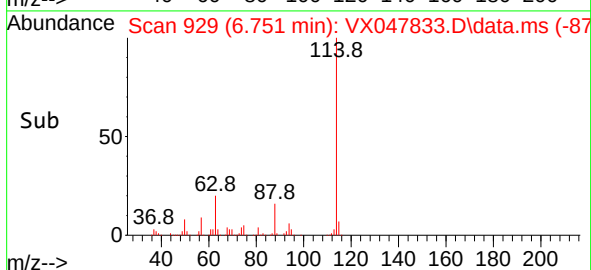
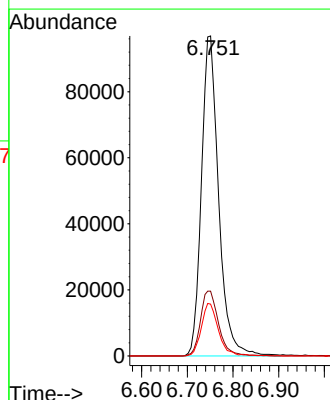
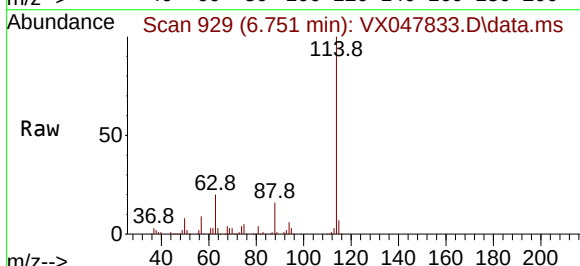
Tgt Ion: 114 Resp: 252679

Ion Ratio Lower Upper

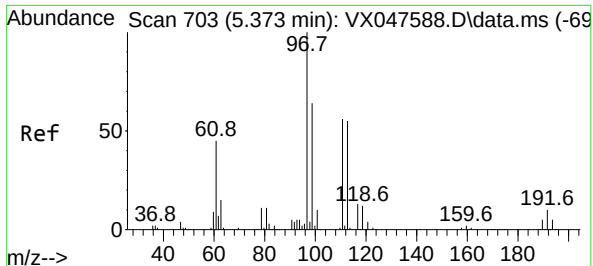
114 100

63 20.2 0.0 44.0

88 16.2 0.0 34.2



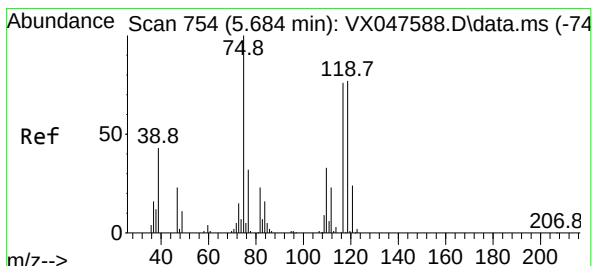
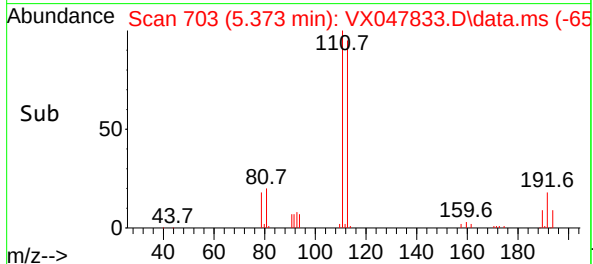
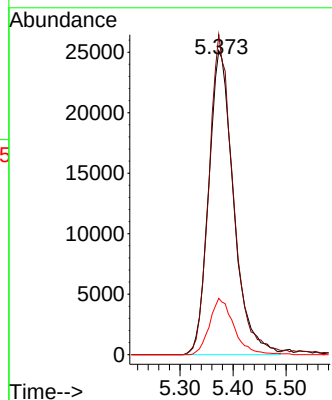
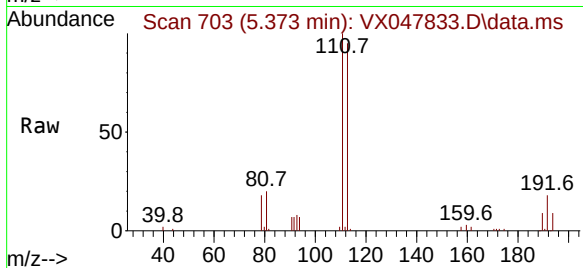




#35  
Dibromofluoromethane  
Concen: 48.427 ug/l  
RT: 5.373 min Scan# 703  
Delta R.T. -0.000 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

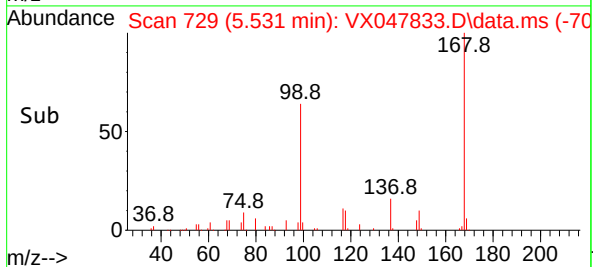
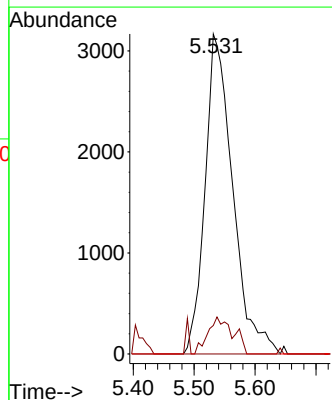
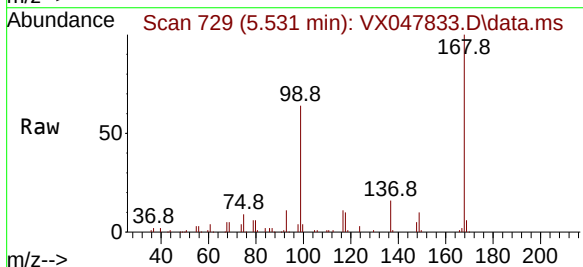
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20250918

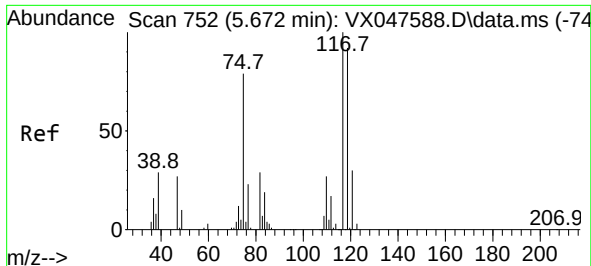
Tgt Ion:113 Resp: 82065  
Ion Ratio Lower Upper  
113 100  
111 102.3 80.9 121.3  
192 18.2 14.2 21.4



#36  
1,1-Dichloropropene  
Concen: 4.029 ug/l  
RT: 5.531 min Scan# 729  
Delta R.T. -0.153 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

Tgt Ion: 75 Resp: 9977  
Ion Ratio Lower Upper  
75 100  
110 10.5 16.7 50.1#  
77 0.0 24.3 36.5#

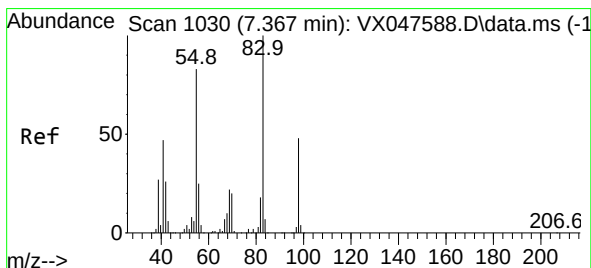
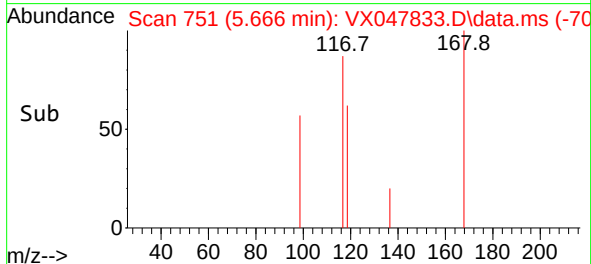
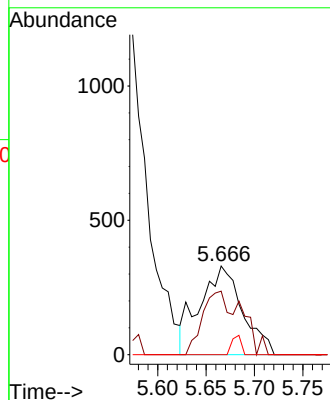
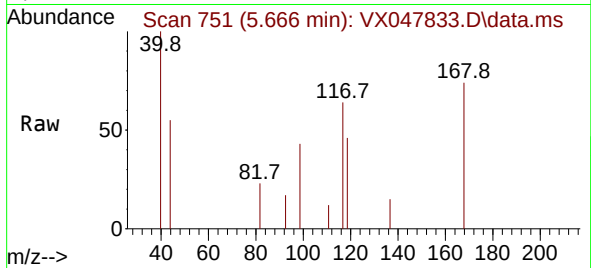




#38  
Carbon Tetrachloride  
Concen: 0.376 ug/l  
RT: 5.666 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

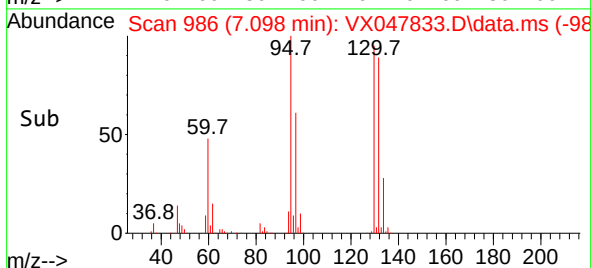
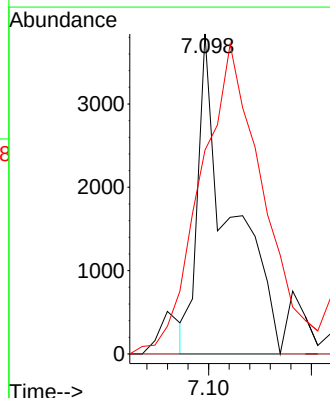
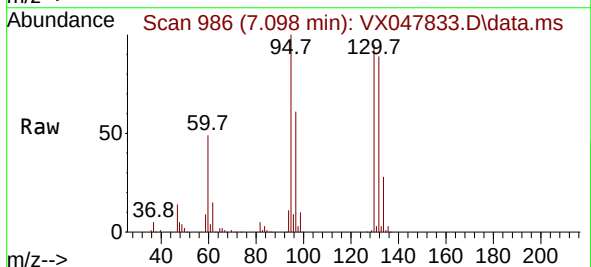
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20250918

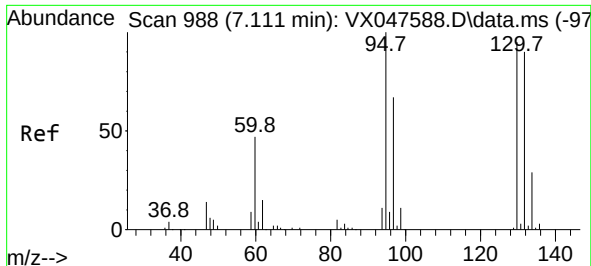
Tgt Ion:117 Resp: 1012  
Ion Ratio Lower Upper  
117 100  
119 71.5 73.4 110.2#  
121 0.0 23.8 35.6#



#39  
Methylcyclohexane  
Concen: 1.503 ug/l  
RT: 7.098 min Scan# 986  
Delta R.T. -0.268 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

Tgt Ion: 83 Resp: 4225  
Ion Ratio Lower Upper  
83 100  
55 0.0 66.4 99.6#  
98 308.8 38.1 57.1#

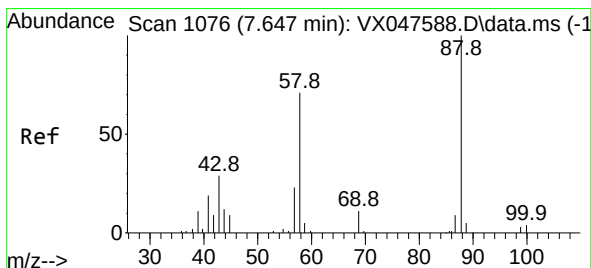
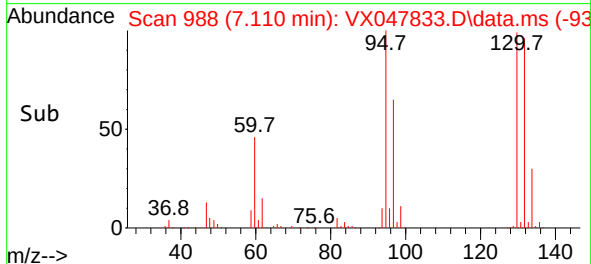
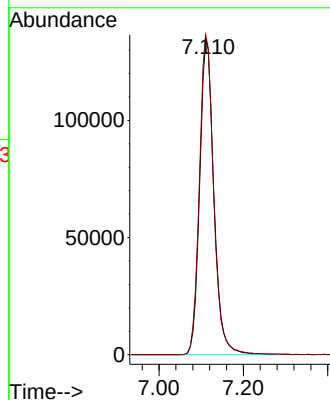
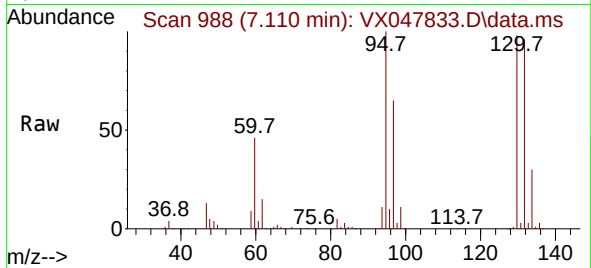




#44  
 Trichloroethene  
 Concen: 173.598 ug/l  
 RT: 7.110 min Scan# 91  
 Delta R.T. -0.000 min  
 Lab File: VX047833.D  
 Acq: 26 Sep 2025 04:55

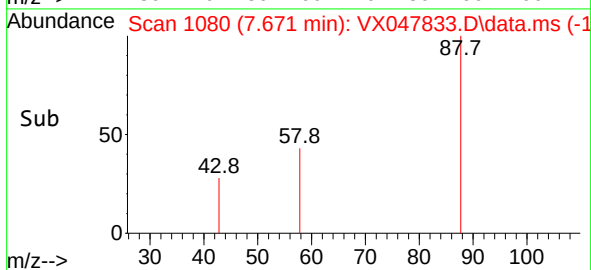
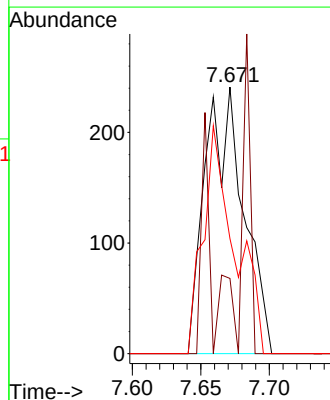
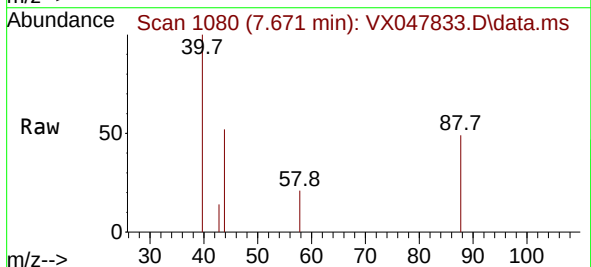
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D4-20250918

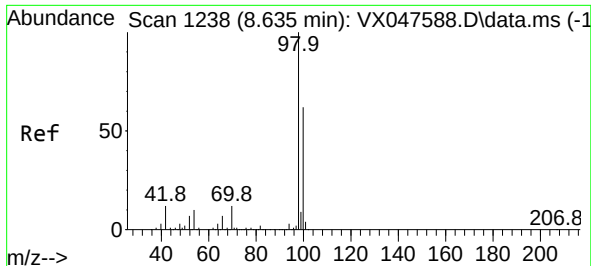
Tgt Ion:130 Resp: 315650  
 Ion Ratio Lower Upper  
 130 100  
 95 101.6 0.0 210.8



#49  
 1,4-Dioxane  
 Concen: 21.563 ug/l  
 RT: 7.671 min Scan# 1080  
 Delta R.T. 0.024 min  
 Lab File: VX047833.D  
 Acq: 26 Sep 2025 04:55

Tgt Ion: 88 Resp: 472  
 Ion Ratio Lower Upper  
 88 100  
 43 22.5 30.2 45.2#  
 58 0.0 59.5 89.3#

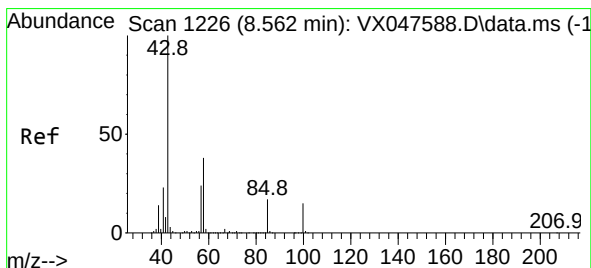
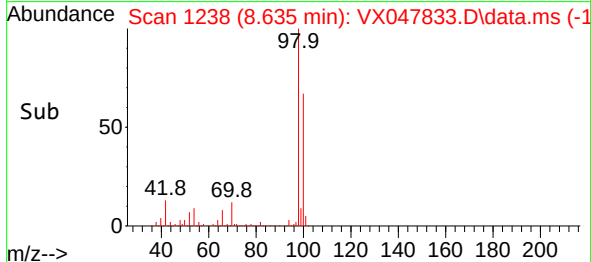
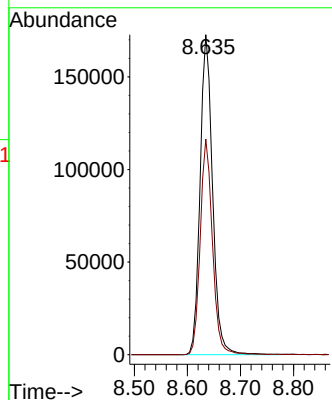
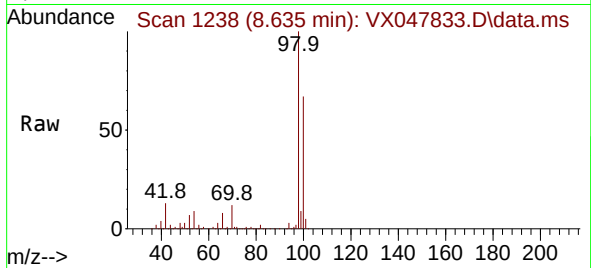




#50  
Toluene-d8  
Concen: 48.171 ug/l  
RT: 8.635 min Scan# 1238  
Delta R.T. -0.000 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

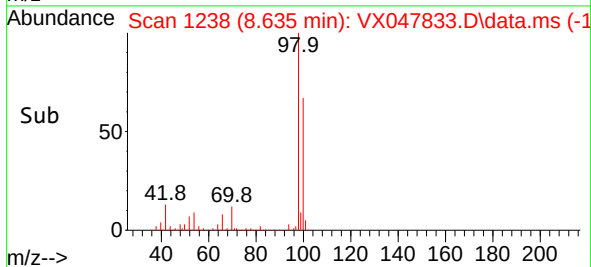
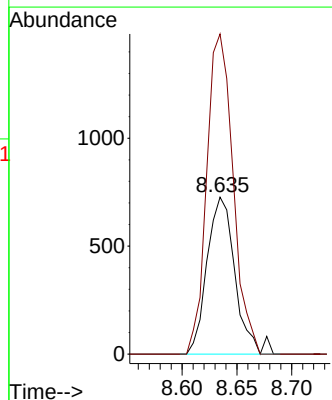
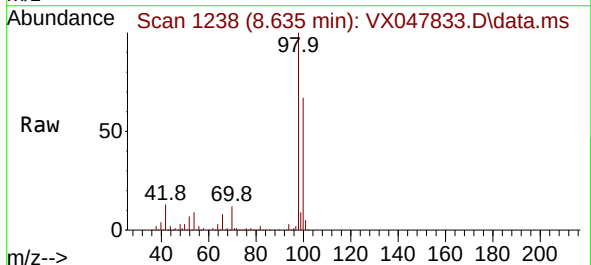
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20250918

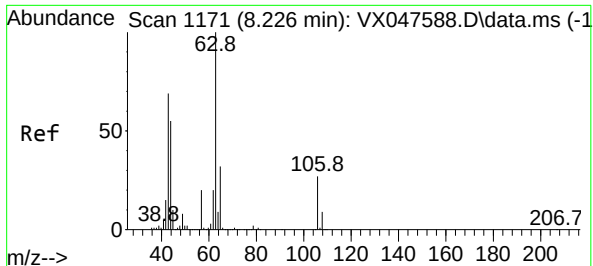
Tgt Ion: 98 Resp: 282460  
Ion Ratio Lower Upper  
98 100  
100 66.2 53.0 79.4



#51  
4-Methyl-2-Pentanone  
Concen: 0.538 ug/l  
RT: 8.635 min Scan# 1238  
Delta R.T. 0.073 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

Tgt Ion: 43 Resp: 1296  
Ion Ratio Lower Upper  
43 100  
58 191.5 30.3 45.5#

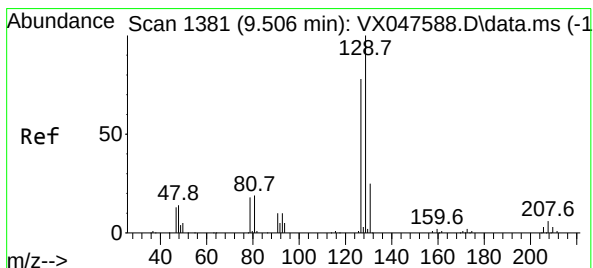
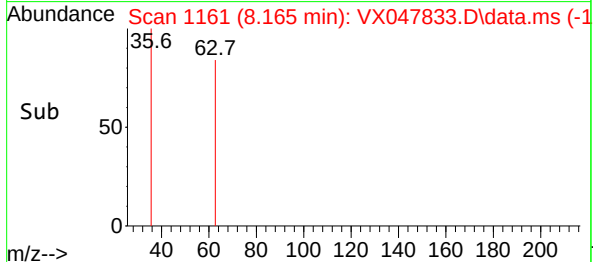
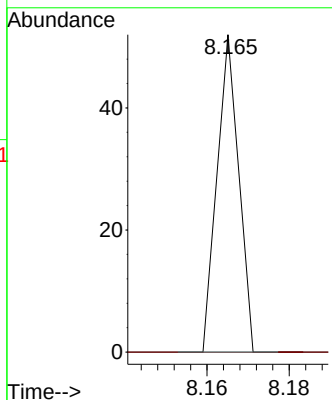
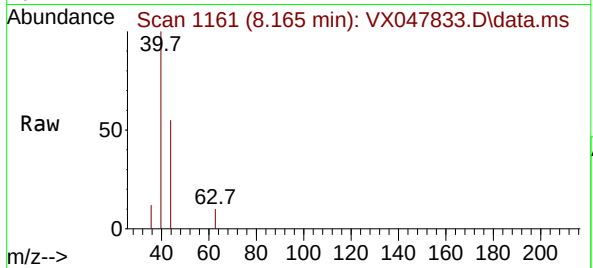




#58  
2-Chloroethyl Vinyl ether  
Concen: 7.907 ug/l  
RT: 8.165 min Scan# 1171  
Delta R.T. -0.061 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

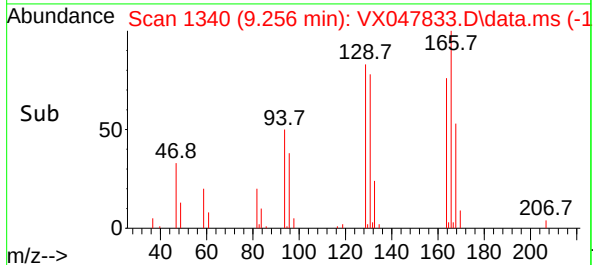
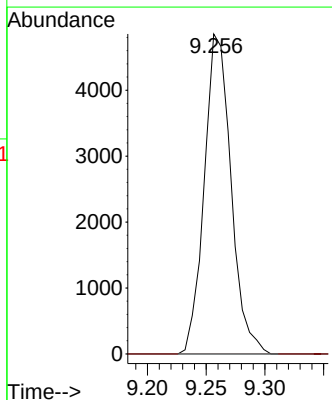
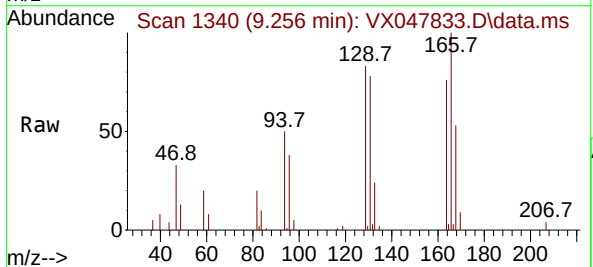
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20250918

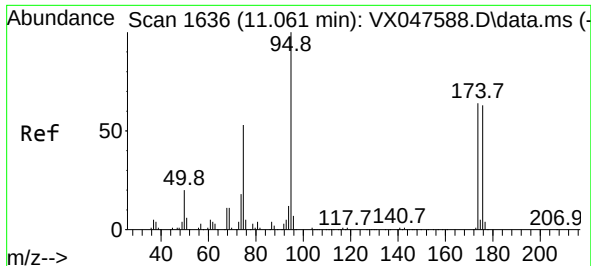
Tgt Ion: 63 Resp: 19  
Ion Ratio Lower Upper  
63 100  
106 0.0 21.9 32.9#



#60  
Dibromochloromethane  
Concen: 3.740 ug/l  
RT: 9.256 min Scan# 1340  
Delta R.T. -0.250 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

Tgt Ion: 129 Resp: 7699  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.4 115.2#

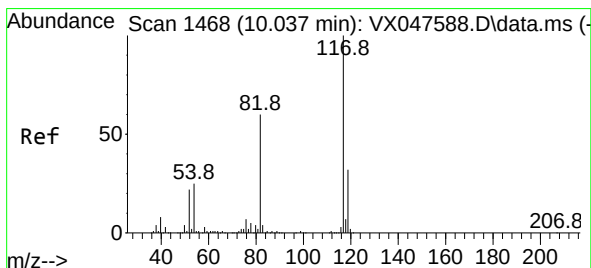
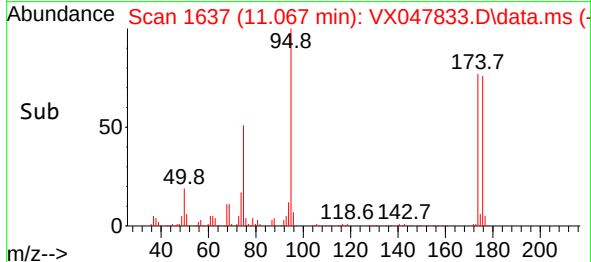
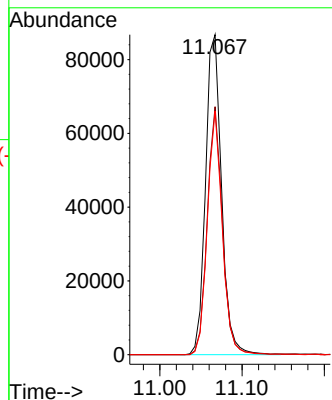
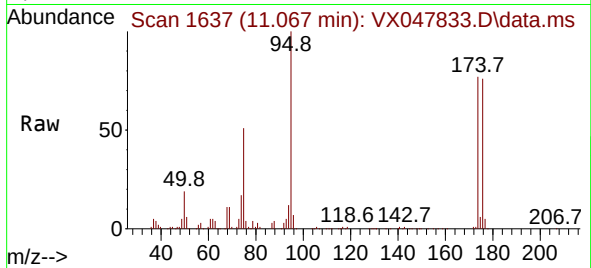




#62  
4-Bromofluorobenzene  
Concen: 52.744 ug/l  
RT: 11.067 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

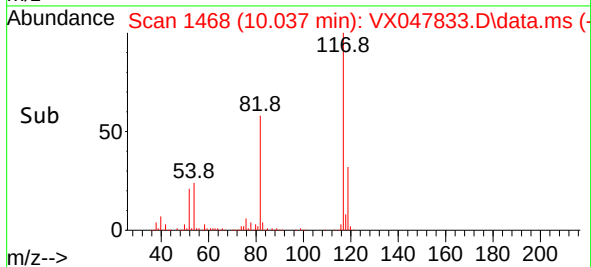
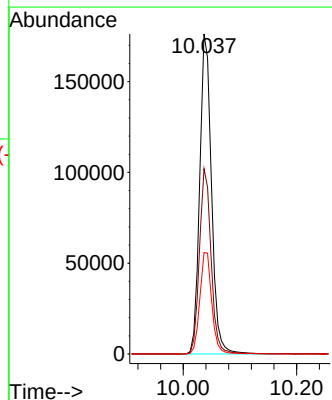
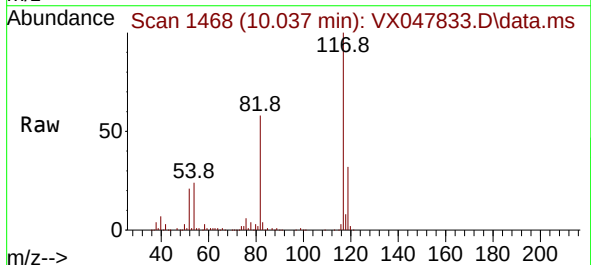
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20250918

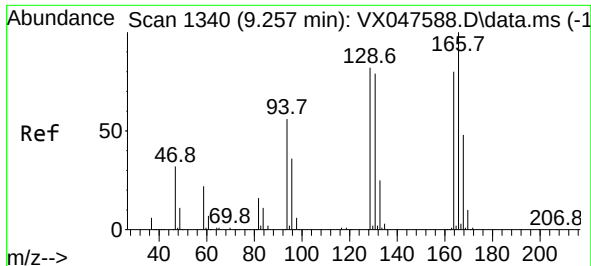
Tgt Ion: 95 Resp: 117374  
Ion Ratio Lower Upper  
95 100  
174 73.8 0.0 141.6  
176 71.0 0.0 138.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.037 min Scan# 1468  
Delta R.T. -0.000 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

Tgt Ion: 117 Resp: 253654  
Ion Ratio Lower Upper  
117 100  
82 57.9 47.8 71.6  
119 31.7 25.2 37.8

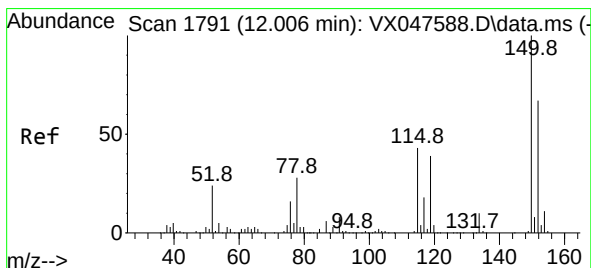
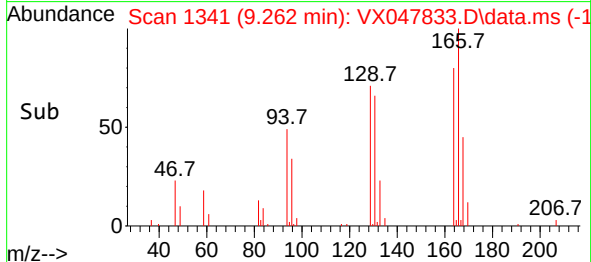
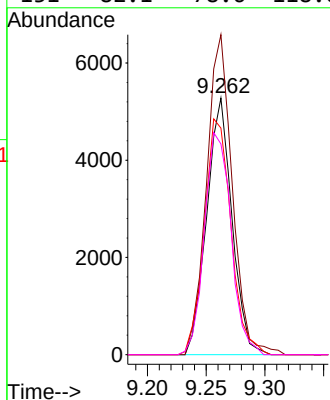
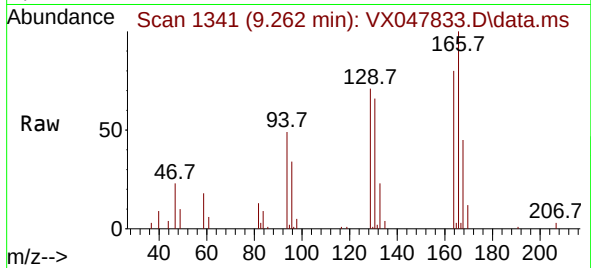




#64  
Tetrachloroethene  
Concen: 4.779 ug/l  
RT: 9.262 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

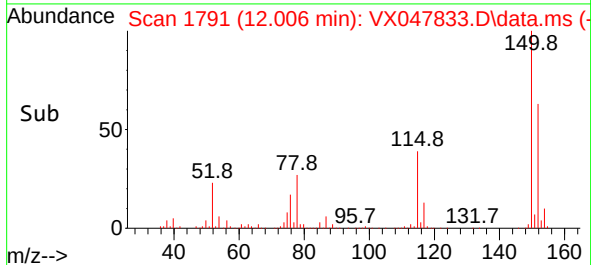
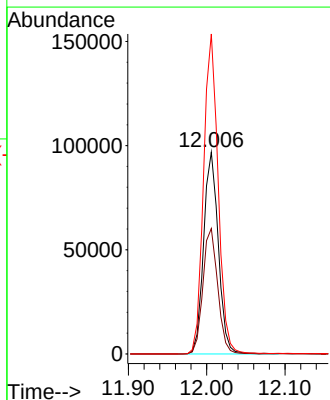
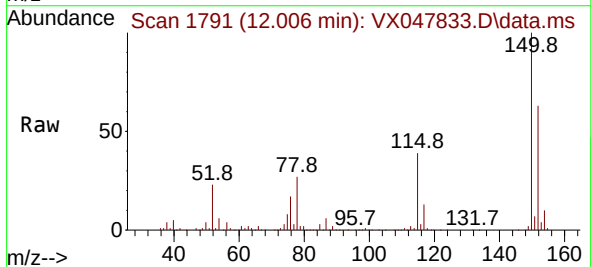
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ClientSampleId :  
RE132D4-20250918

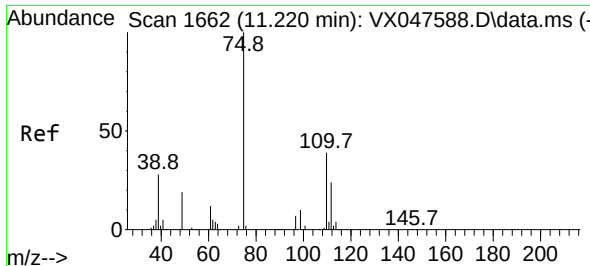
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 7903  |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 166 | 124.7   | 100.2 | 150.2 |
| 129 | 88.3    | 81.8  | 122.6 |
| 131 | 82.1    | 78.6  | 118.0 |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.006 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

|             |       |        |       |
|-------------|-------|--------|-------|
| Tgt Ion:152 | Resp: | 126267 |       |
| Ion         | Ratio | Lower  | Upper |
| 152         | 100   |        |       |
| 115         | 62.6  | 44.9   | 134.5 |
| 150         | 156.8 | 0.0    | 352.0 |

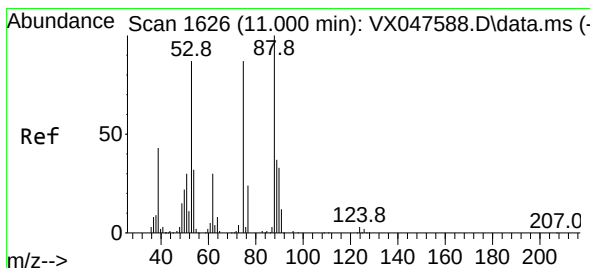
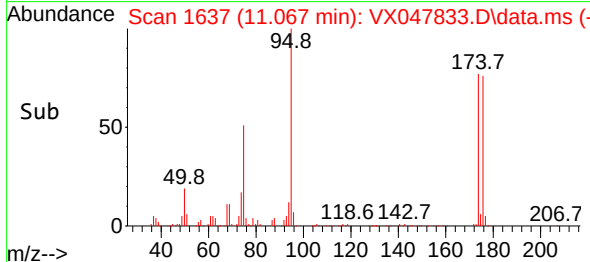
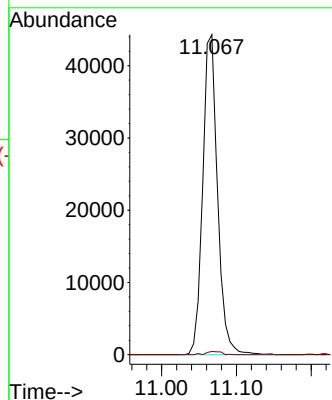
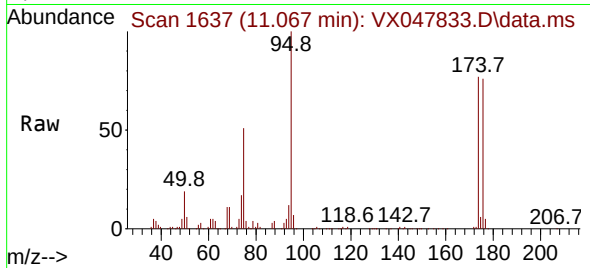




#76  
1,2,3-Trichloropropane  
Concen: 23.825 ug/l  
RT: 11.067 min Scan# 1637  
Delta R.T. -0.153 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D4-20250918

Tgt Ion: 75 Resp: 60908  
Ion Ratio Lower Upper  
75 100  
77 1.1 18.8 56.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.756 ug/l  
RT: 11.067 min Scan# 1637  
Delta R.T. 0.067 min  
Lab File: VX047833.D  
Acq: 26 Sep 2025 04:55

Tgt Ion: 75 Resp: 60908  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.4 125.2#  
89 0.0 36.3 54.5#

