

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX103024\  
 Data File : VX043632.D  
 Acq On : 30 Oct 2024 18:16  
 Operator : JC/MD  
 Sample : PB164501ZHE#10  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB164501ZHE#10

Quant Time: Oct 31 23:03:33 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102824W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Oct 28 13:41:34 2024  
 Response via : Initial Calibration

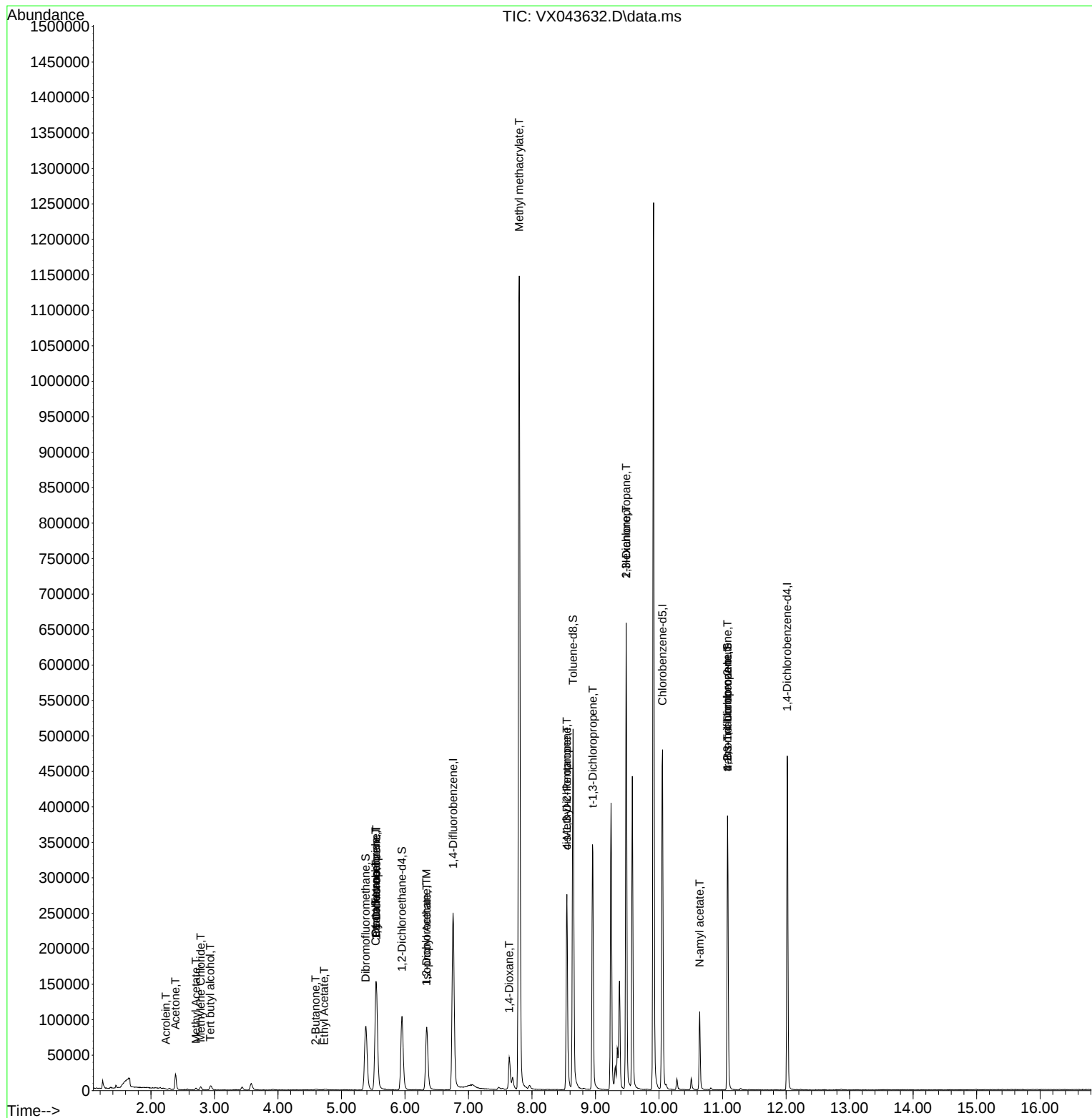
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.544  | 168   | 152366   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 276534   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 229396   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 105217   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 99737    | 41.052   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 82.100%  |
| 35) Dibromofluoromethane      | 5.379  | 113   | 84096    | 44.847   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 89.700%  |
| 50) Toluene-d8                | 8.647  | 98    | 313154   | 48.243   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 96.480%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 104893   | 43.609   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 87.220%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol        | 2.934  | 59    | 3536     | 7.798    | ug/l # | 100      |
| 13) Acrolein                  | 2.233  | 56    | 109      | 0.307    | ug/l # | 25       |
| 16) Acetone                   | 2.386  | 43    | 23507    | 24.365   | ug/l # | 87       |
| 18) Methyl Acetate            | 2.709  | 43    | 3139     | 1.113    | ug/l   | 98       |
| 20) Methylene Chloride        | 2.782  | 84    | 2035     | 0.979    | ug/l   | 92       |
| 25) 2-Butanone                | 4.593  | 43    | 2009     | 1.428    | ug/l   | 96       |
| 31) Cyclohexane               | 5.544  | 56    | 2983     | 1.163    | ug/l # | 2        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 11485    | 5.165    | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.727  | 43    | 1022     | 0.379    | ug/l # | 96       |
| 38) Carbon Tetrachloride      | 5.538  | 117   | 15725    | 6.401    | ug/l # | 15       |
| 42) 1,2-Dichloroethane        | 6.336  | 62    | 626      | 0.235    | ug/l # | 74       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 126487   | 28.333   | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.799  | 41    | 97170    | 45.909   | ug/l # | 40       |
| 49) 1,4-Dioxane               | 7.641  | 88    | 47       | 1.081    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 94536    | 34.744   | ug/l # | 49       |
| 53) t-1,3-Dichloropropene     | 8.958  | 75    | 795      | 0.300    | ug/l # | 42       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 50682    | 17.951   | ug/l # | 56       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 5979     | 1.920    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482  | 43    | 75245    | 36.411   | ug/l # | 51       |
| 74) N-amyl acetate            | 10.640 | 43    | 25232    | 6.949    | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 51610    | 22.941   | ug/l # | 33       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 51610    | 63.112   | ug/l # | 7        |
| -----                         |        |       |          |          |        |          |

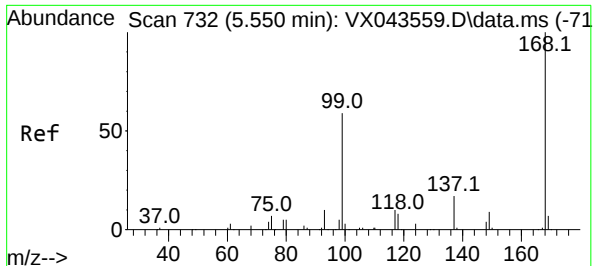
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX103024\  
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Sample : PB164501ZHE#10  
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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164501ZHE#10

Quant Time: Oct 31 23:03:33 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102824W.M  
Quant Title : SW846 8260  
QLast Update : Mon Oct 28 13:41:34 2024  
Response via : Initial Calibration

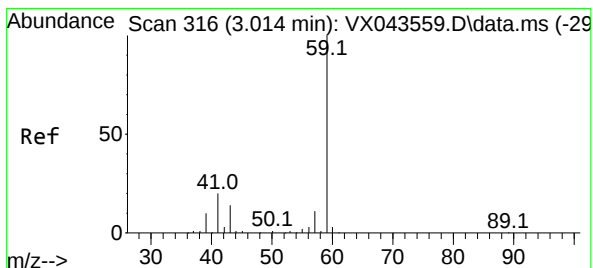
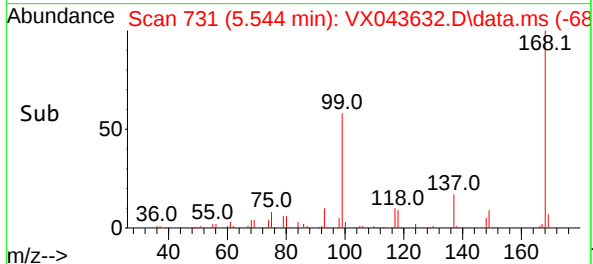
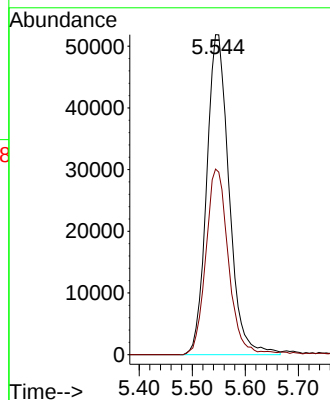
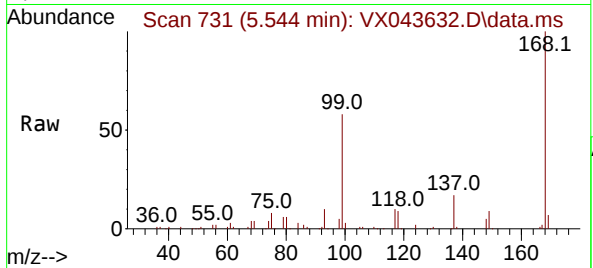




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

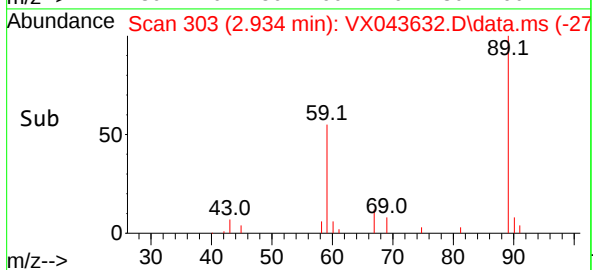
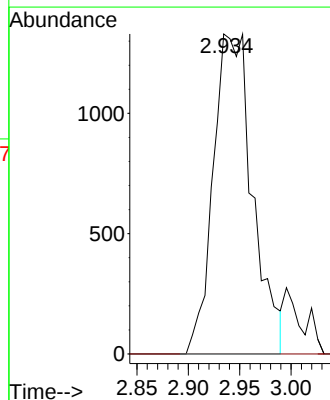
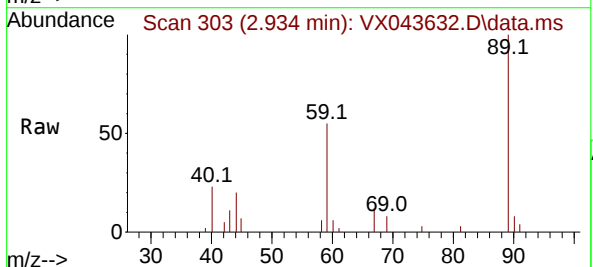
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164501ZHE#10

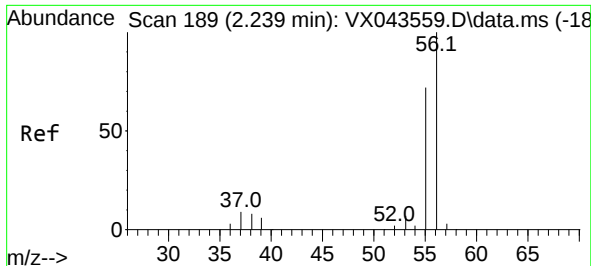
Tgt Ion:168 Resp: 152366  
Ion Ratio Lower Upper  
168 100  
99 58.0 52.6 78.8



#11  
Tert butyl alcohol  
Concen: 7.798 ug/l  
RT: 2.934 min Scan# 303  
Delta R.T. -0.116 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

Tgt Ion: 59 Resp: 3536  
Ion Ratio Lower Upper  
59 100  
57 0.0 0.0 0.0

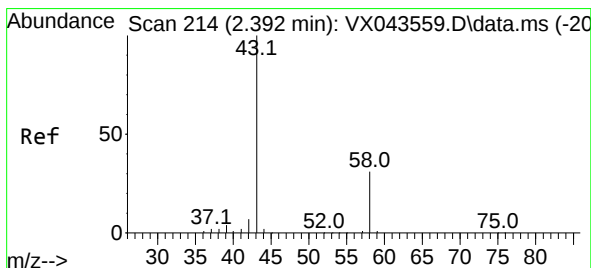
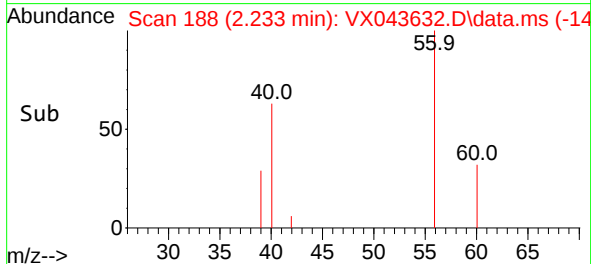
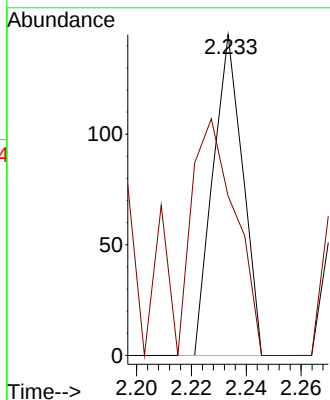
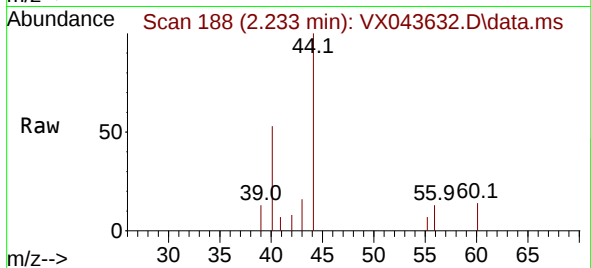




#13  
Acrolein  
Concen: 0.307 ug/l  
RT: 2.233 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

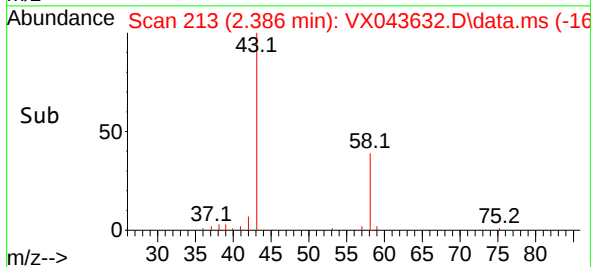
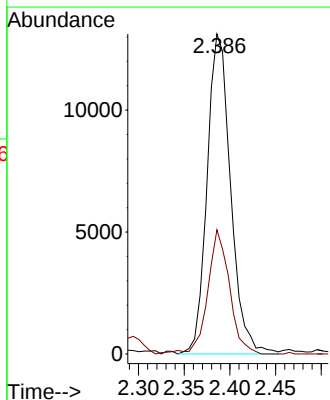
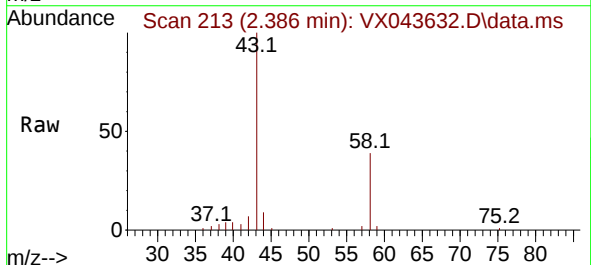
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164501ZHE#10

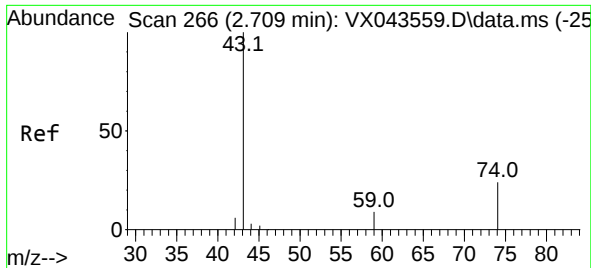
Tgt Ion: 56 Resp: 109  
Ion Ratio Lower Upper  
56 100  
55 130.3 55.3 82.9#



#16  
Acetone  
Concen: 24.365 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.012 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

Tgt Ion: 43 Resp: 23507  
Ion Ratio Lower Upper  
43 100  
58 38.8 25.1 37.7#

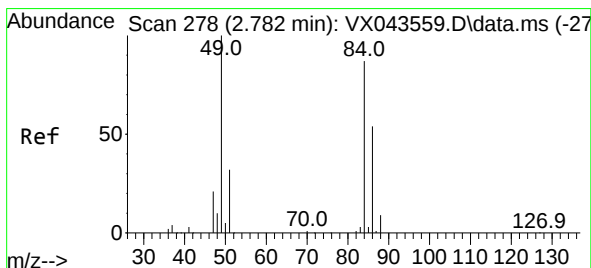
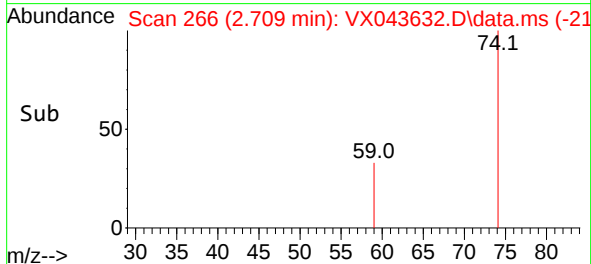
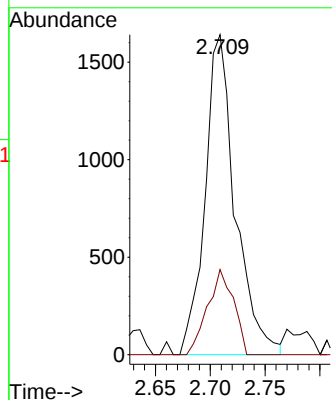
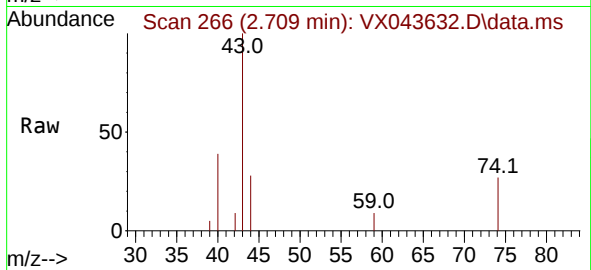




#18  
Methyl Acetate  
Concen: 1.113 ug/l  
RT: 2.709 min Scan# 218  
Delta R.T. 0.000 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

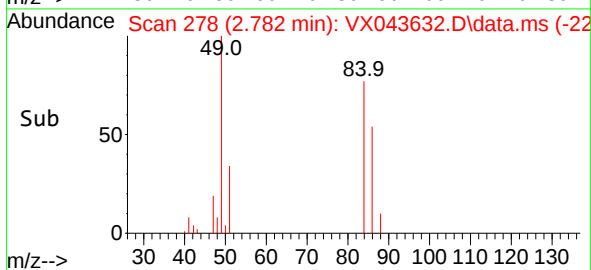
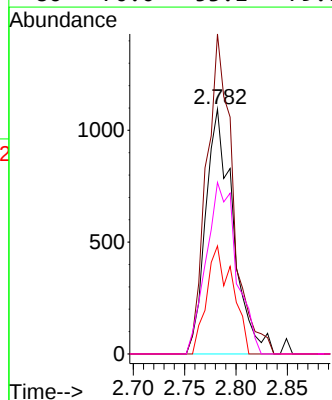
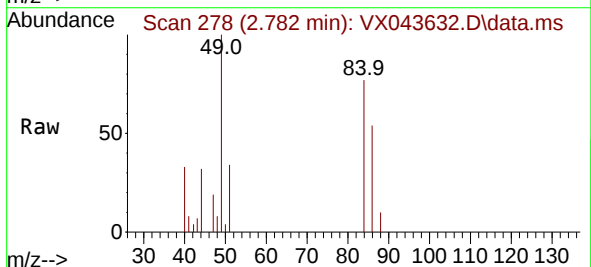
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164501ZHE#10

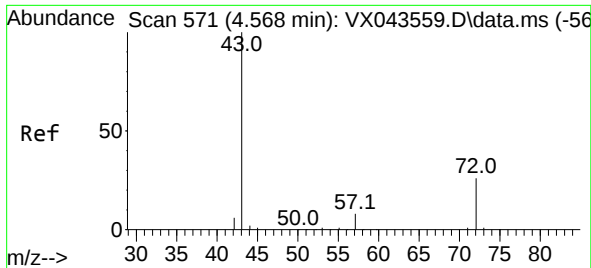
Tgt Ion: 43 Resp: 3139  
Ion Ratio Lower Upper  
43 100  
74 23.0 19.1 28.7



#20  
Methylene Chloride  
Concen: 0.979 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. 0.000 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

Tgt Ion: 84 Resp: 2035  
Ion Ratio Lower Upper  
84 100  
49 130.7 97.0 145.6  
51 44.1 29.8 44.8  
86 70.0 53.1 79.7

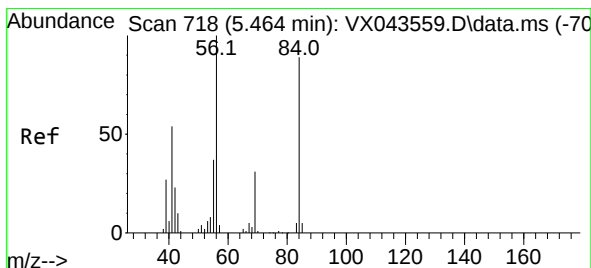
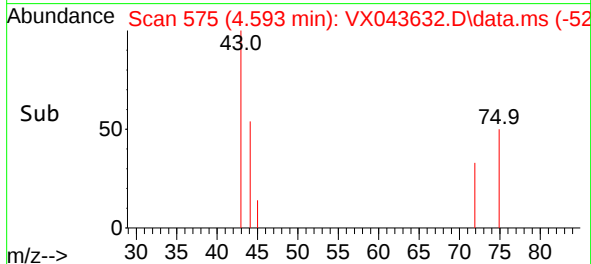
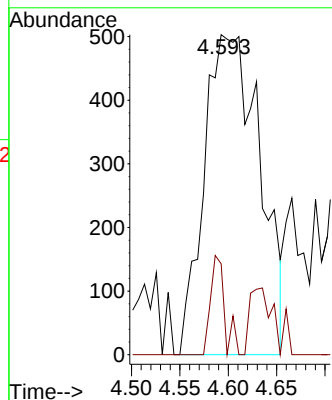
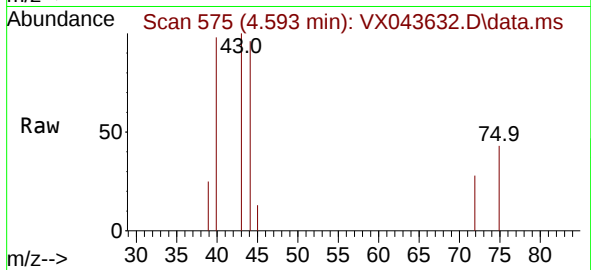




#25  
2-Butanone  
Concen: 1.428 ug/l  
RT: 4.593 min Scan# 51  
Delta R.T. 0.025 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

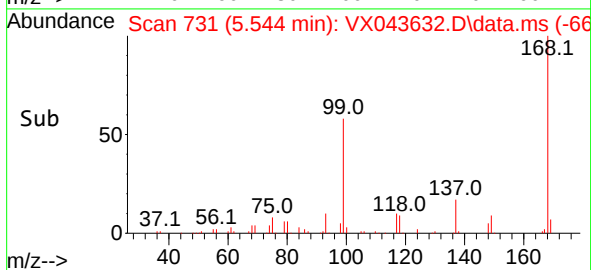
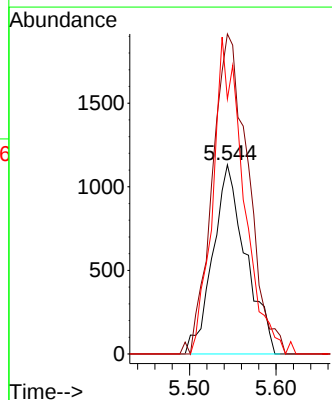
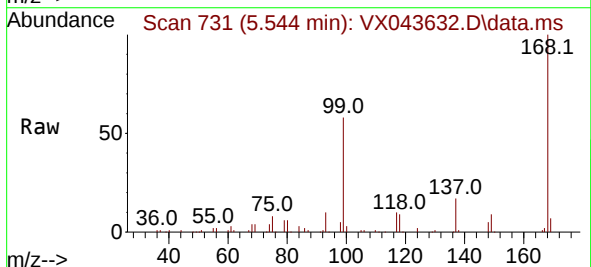
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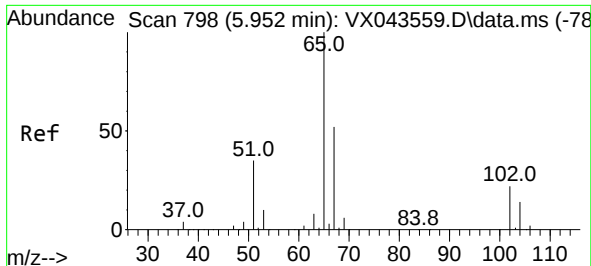
Tgt Ion: 43 Resp: 2009  
Ion Ratio Lower Upper  
43 100  
72 28.4 21.1 31.7



#31  
Cyclohexane  
Concen: 1.163 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. 0.086 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

Tgt Ion: 56 Resp: 2983  
Ion Ratio Lower Upper  
56 100  
69 169.2 24.9 37.3#  
84 134.8 73.3 109.9#

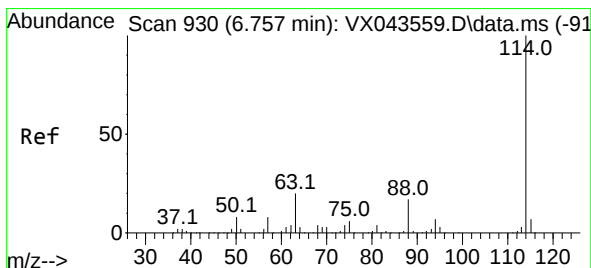
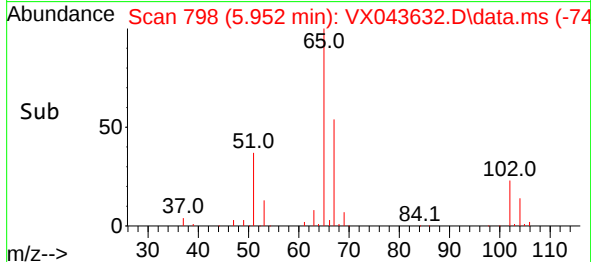
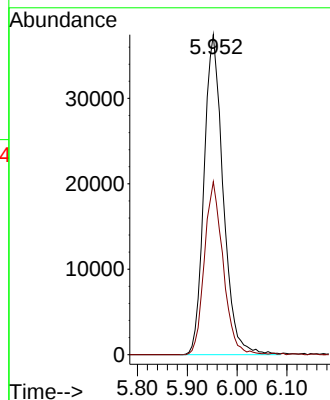
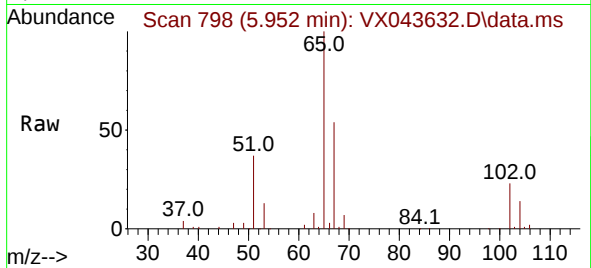




#33  
 1,2-Dichloroethane-d4  
 Concen: 41.052 ug/l  
 RT: 5.952 min Scan# 798  
 Delta R.T. 0.000 min  
 Lab File: VX043632.D  
 Acq: 30 Oct 2024 18:16

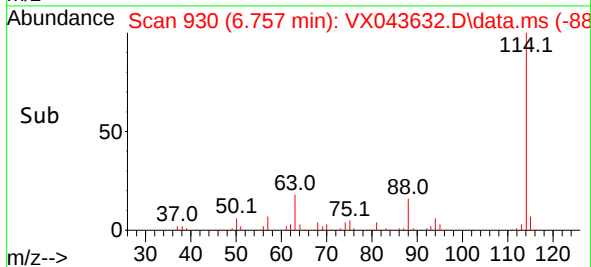
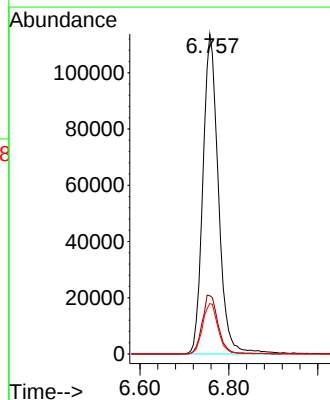
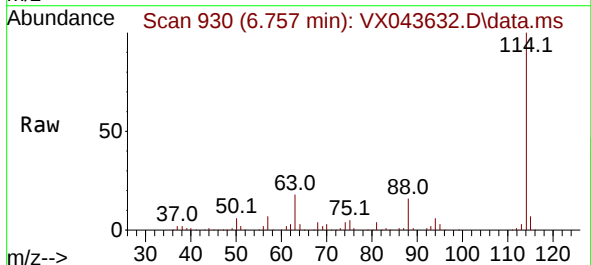
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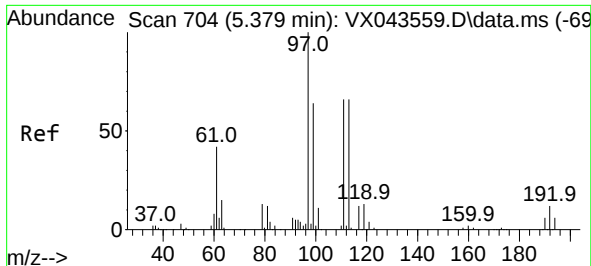
Tgt Ion: 65 Resp: 99737  
 Ion Ratio Lower Upper  
 65 100  
 67 52.9 0.0 103.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.757 min Scan# 930  
 Delta R.T. 0.000 min  
 Lab File: VX043632.D  
 Acq: 30 Oct 2024 18:16

Tgt Ion: 114 Resp: 276534  
 Ion Ratio Lower Upper  
 114 100  
 63 18.2 0.0 41.2  
 88 15.8 0.0 34.0

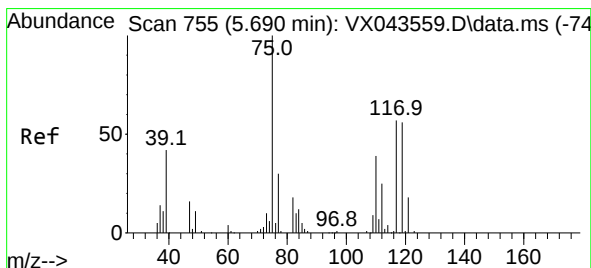
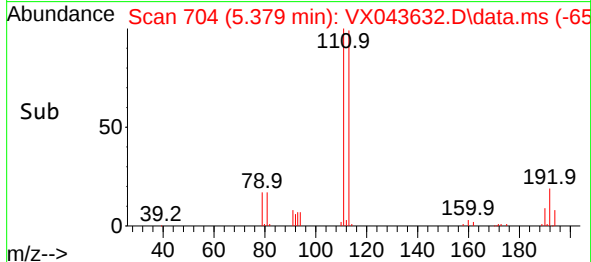
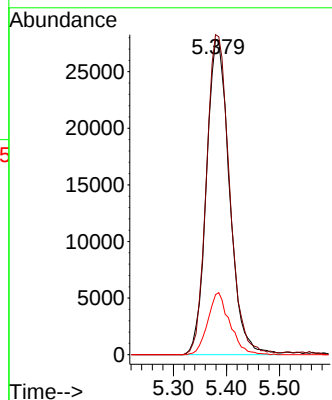
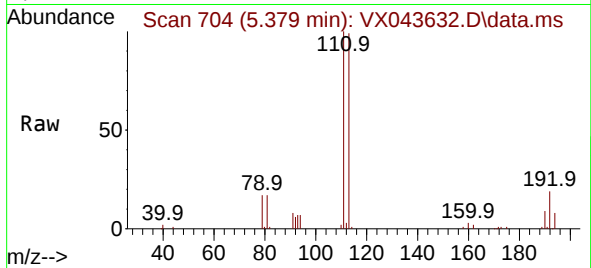




#35  
Dibromofluoromethane  
Concen: 44.847 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.006 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

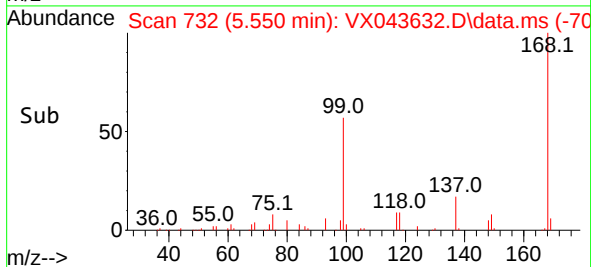
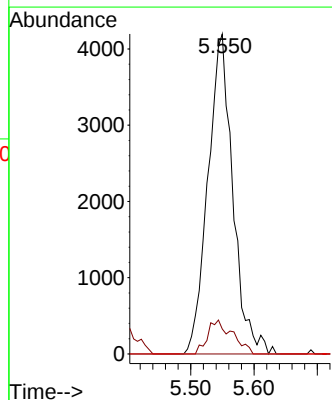
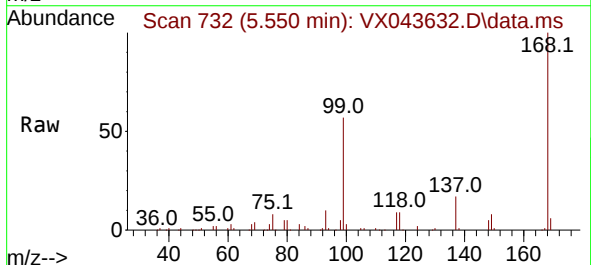
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164501ZHE#10

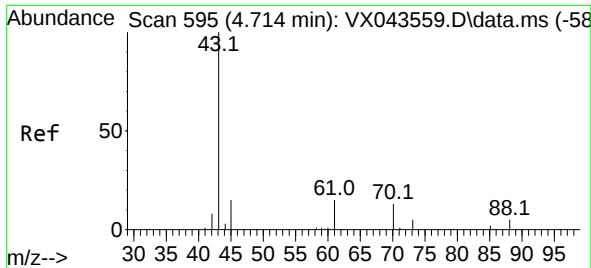
Tgt Ion:113 Resp: 84096  
Ion Ratio Lower Upper  
113 100  
111 102.0 81.4 122.0  
192 18.8 14.1 21.1



#36  
1,1-Dichloropropene  
Concen: 5.165 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.134 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

Tgt Ion: 75 Resp: 11485  
Ion Ratio Lower Upper  
75 100  
110 10.5 17.9 53.7#  
77 0.0 25.0 37.4#

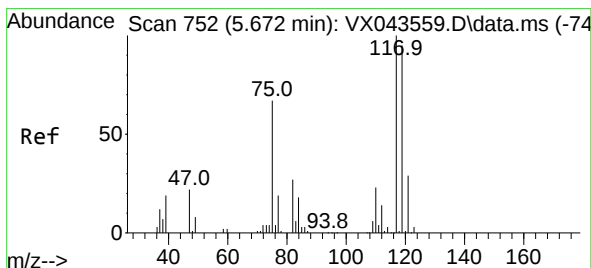
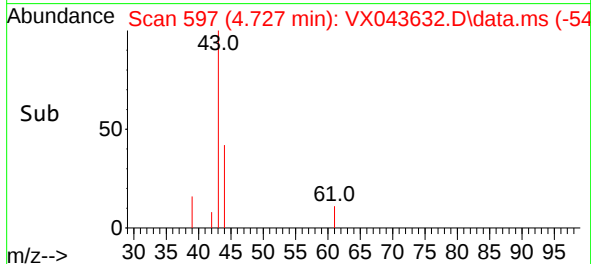
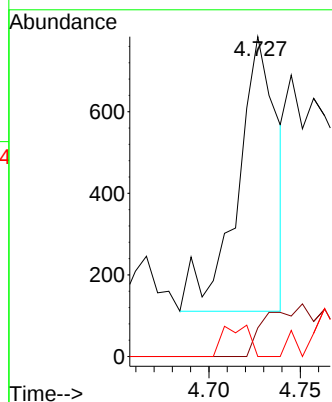
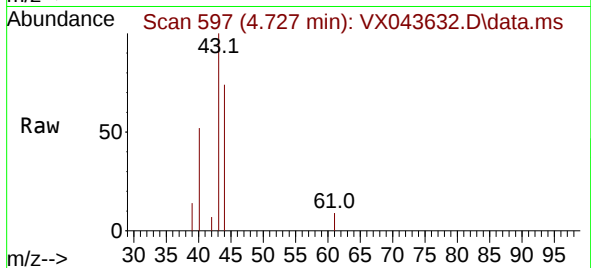




#37  
Ethyl Acetate  
Concen: 0.379 ug/l  
RT: 4.727 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

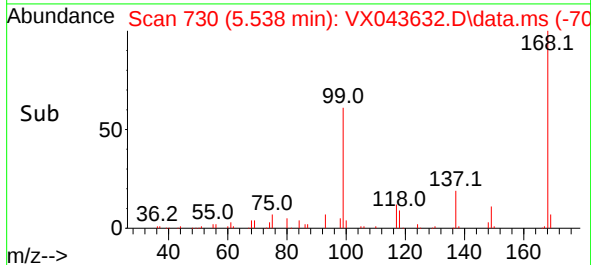
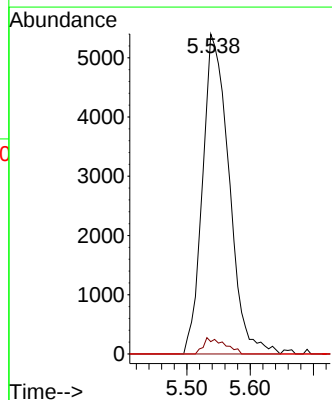
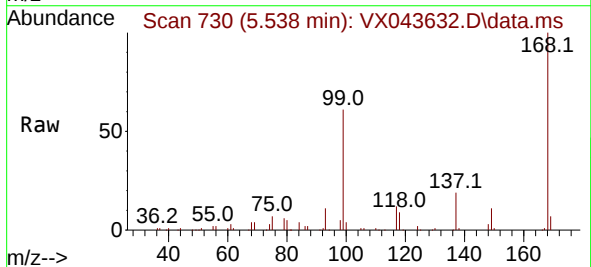
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164501ZHE#10

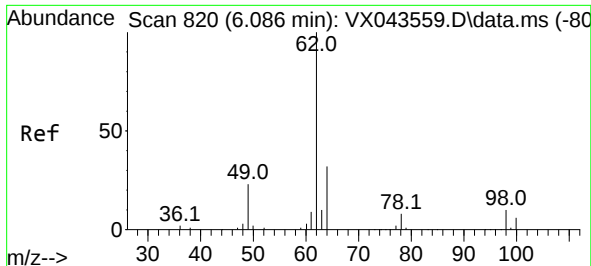
Tgt Ion: 43 Resp: 1022  
Ion Ratio Lower Upper  
43 100  
61 13.8 11.0 16.6  
70 7.4 8.9 13.3#



#38  
Carbon Tetrachloride  
Concen: 6.401 ug/l  
RT: 5.538 min Scan# 730  
Delta R.T. -0.134 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

Tgt Ion: 117 Resp: 15725  
Ion Ratio Lower Upper  
117 100  
119 3.9 77.0 115.6#  
121 0.0 24.7 37.1#





#42

1,2-Dichloroethane

Concen: 0.235 ug/l

RT: 6.336 min Scan# 80

Delta R.T. 0.250 min

Lab File: VX043632.D

Acq: 30 Oct 2024 18:16

Instrument :

MSVOA\_X

ClientSampleId :

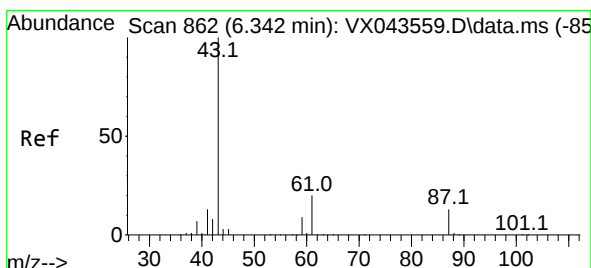
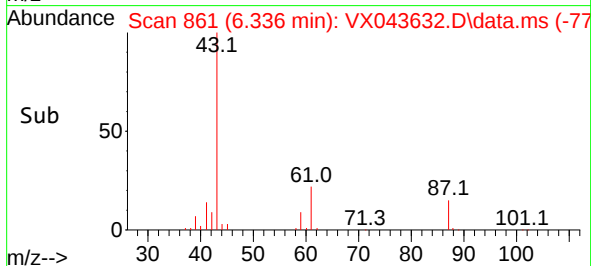
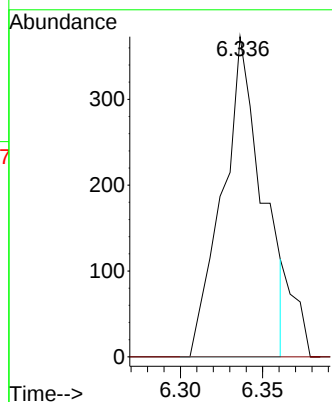
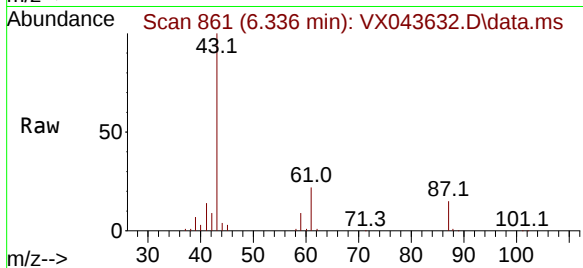
PB164501ZHE#10

Tgt Ion: 62 Resp: 626

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.8



#43

Isopropyl Acetate

Concen: 28.333 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.000 min

Lab File: VX043632.D

Acq: 30 Oct 2024 18:16

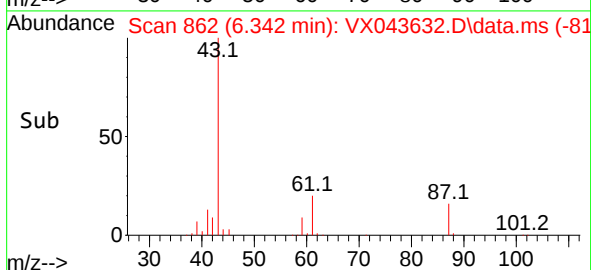
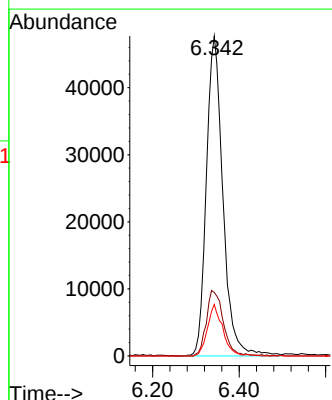
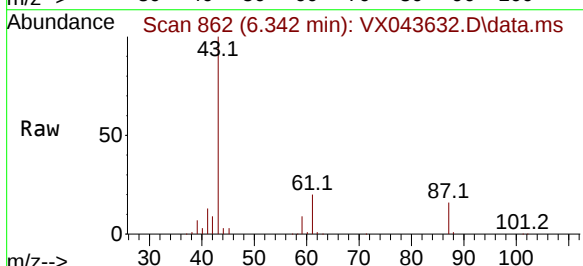
Tgt Ion: 43 Resp: 126487

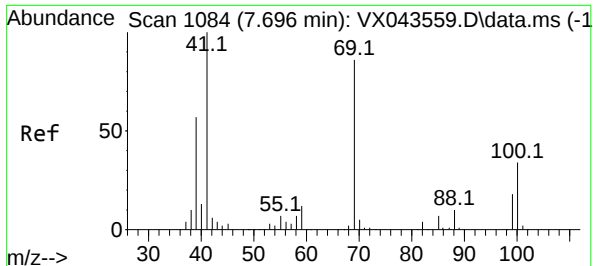
Ion Ratio Lower Upper

43 100

61 21.0 16.2 24.4

87 14.6 11.0 16.6

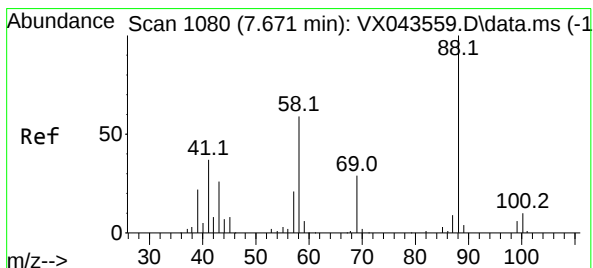
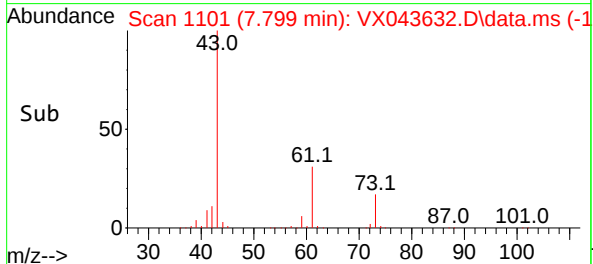
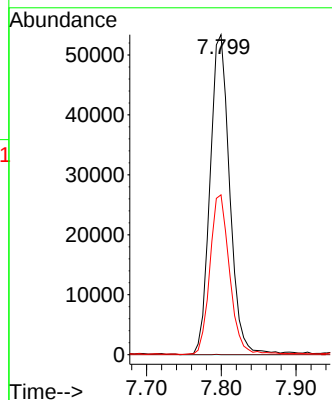
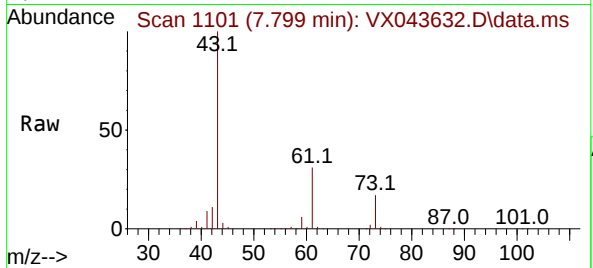




#48  
Methyl methacrylate  
Concen: 45.909 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.104 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

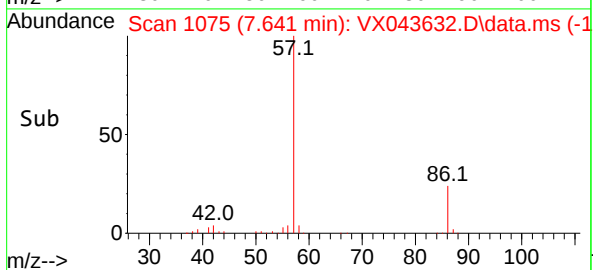
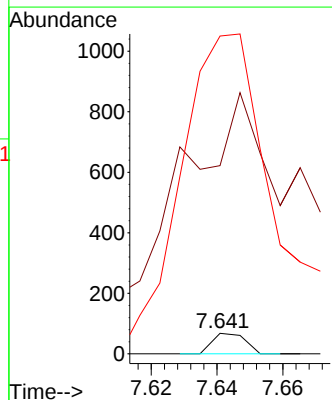
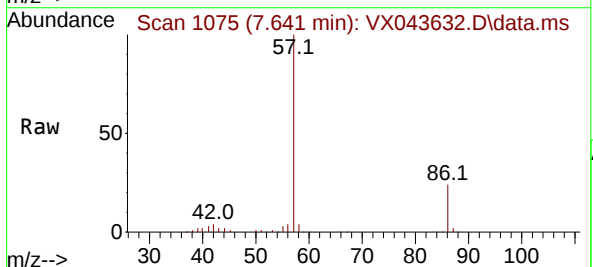
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164501ZHE#10

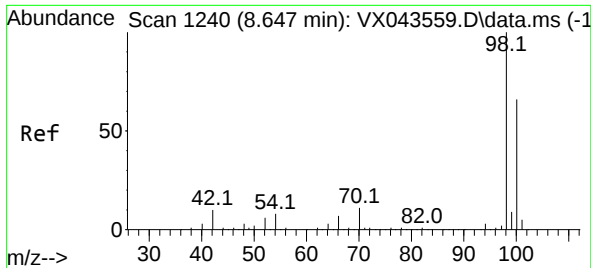
Tgt Ion: 41 Resp: 97170  
Ion Ratio Lower Upper  
41 100  
69 0.0 67.7 101.5#  
39 50.0 46.3 69.5



#49  
1,4-Dioxane  
Concen: 1.081 ug/l  
RT: 7.641 min Scan# 1075  
Delta R.T. -0.030 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

Tgt Ion: 88 Resp: 47  
Ion Ratio Lower Upper  
88 100  
43 0.0 25.3 37.9#  
58 4480.9 53.9 80.9#

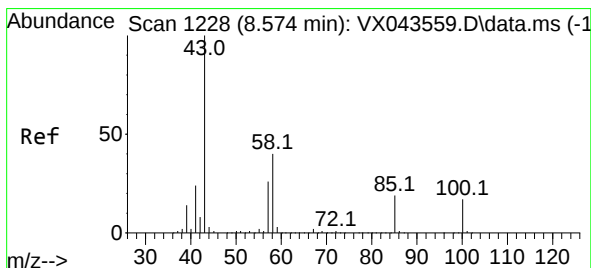
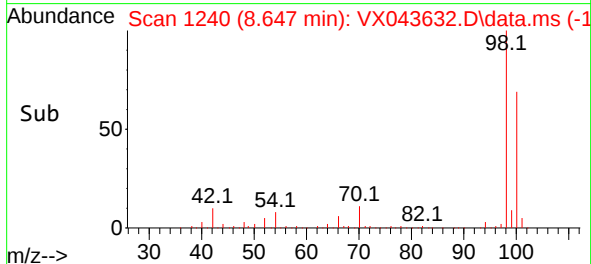
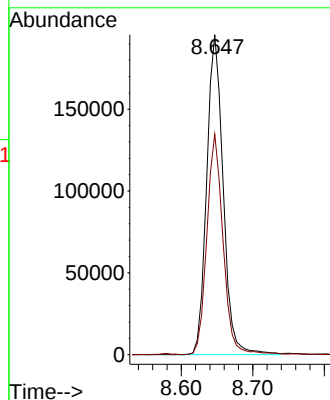
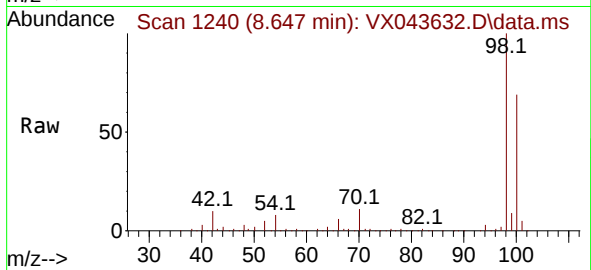




#50  
Toluene-d8  
Concen: 48.243 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

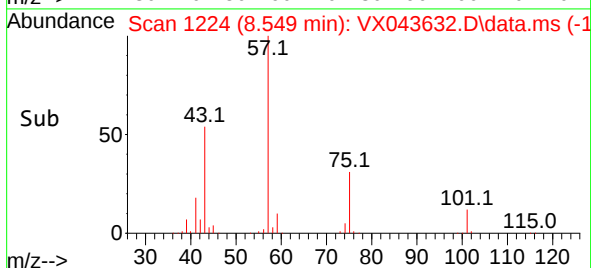
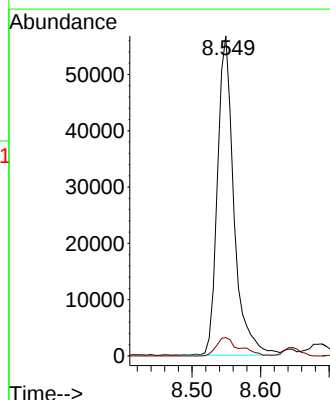
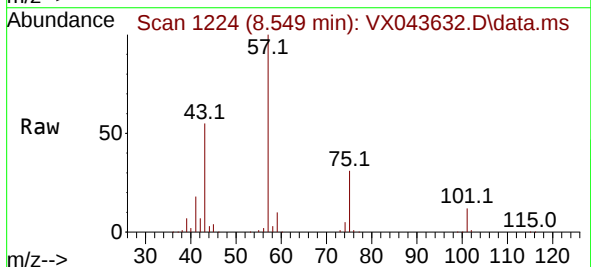
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164501ZHE#10

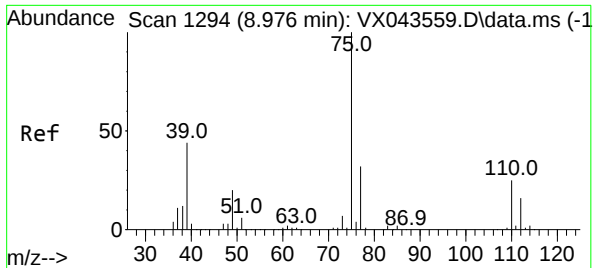
Tgt Ion: 98 Resp: 313154  
Ion Ratio Lower Upper  
98 100  
100 67.6 53.4 80.2



#51  
4-Methyl-2-Pentanone  
Concen: 34.744 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.030 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

Tgt Ion: 43 Resp: 94536  
Ion Ratio Lower Upper  
43 100  
58 8.1 31.7 47.5#

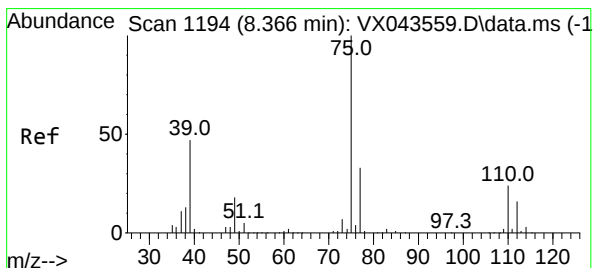
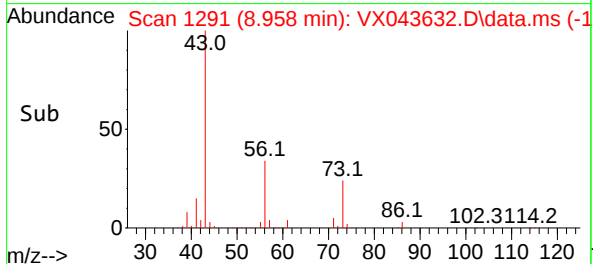
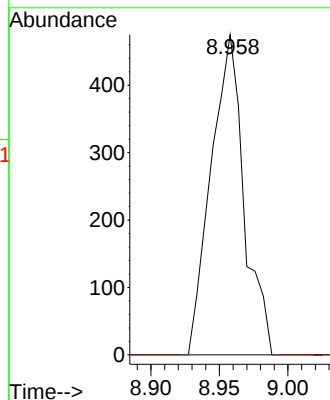
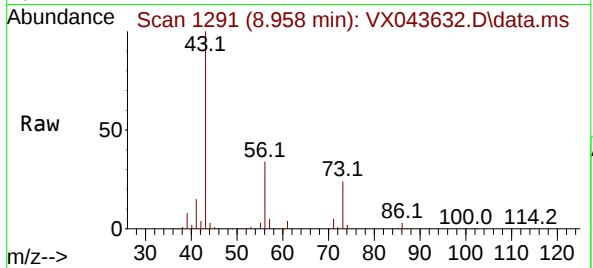




#53  
 t-1,3-Dichloropropene  
 Concen: 0.300 ug/l  
 RT: 8.958 min Scan# 11  
 Delta R.T. -0.018 min  
 Lab File: VX043632.D  
 Acq: 30 Oct 2024 18:16

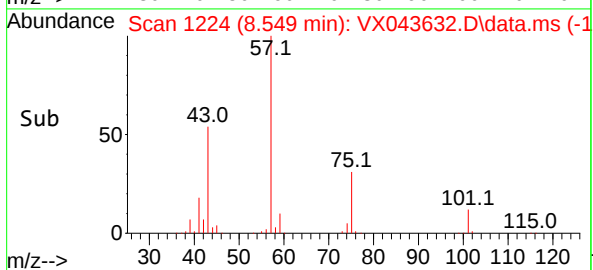
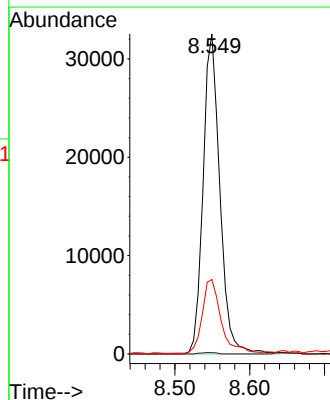
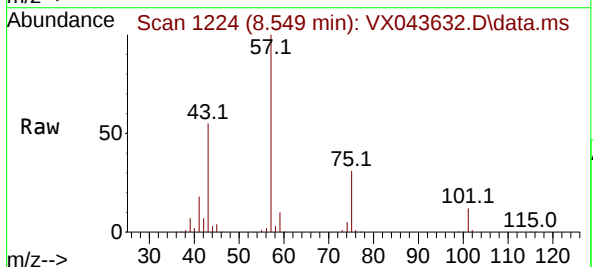
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB164501ZHE#10

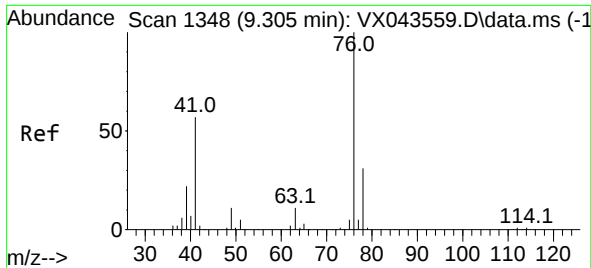
Tgt Ion: 75 Resp: 795  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 26.0 39.0#



#54  
 cis-1,3-Dichloropropene  
 Concen: 17.951 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.183 min  
 Lab File: VX043632.D  
 Acq: 30 Oct 2024 18:16

Tgt Ion: 75 Resp: 50682  
 Ion Ratio Lower Upper  
 75 100  
 77 0.4 24.8 37.2#  
 39 23.0 37.7 56.5#





#57

1,3-Dichloropropane

Concen: 1.920 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX043632.D

Acq: 30 Oct 2024 18:16

Instrument :

MSVOA\_X

ClientSampleId :

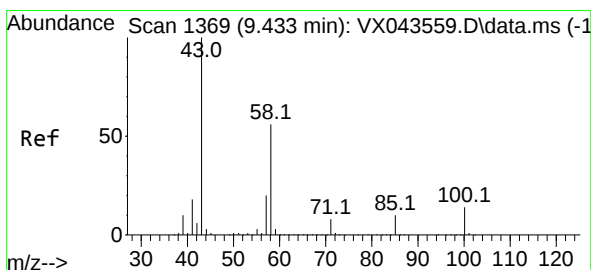
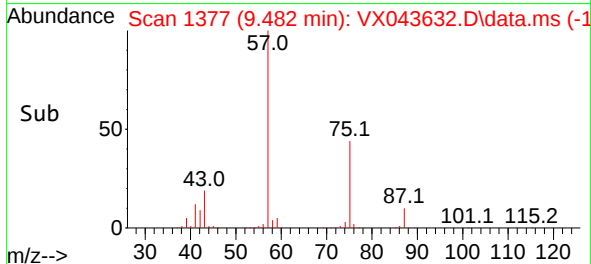
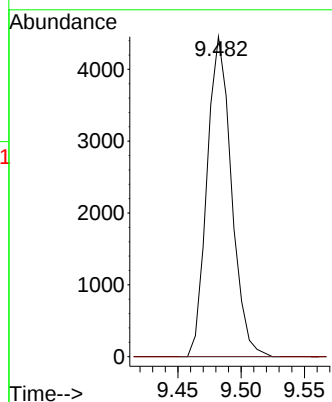
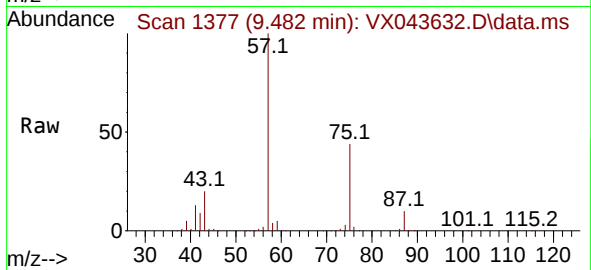
PB164501ZHE#10

Tgt Ion: 76 Resp: 5979

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 36.411 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX043632.D

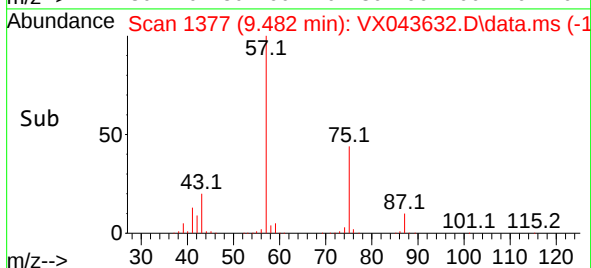
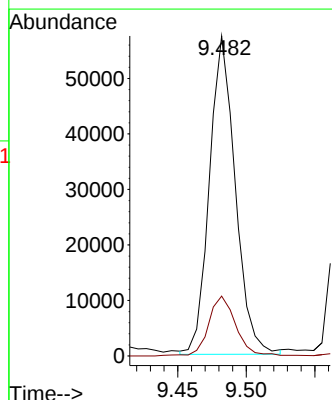
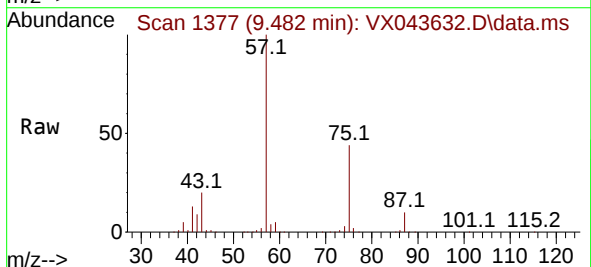
Acq: 30 Oct 2024 18:16

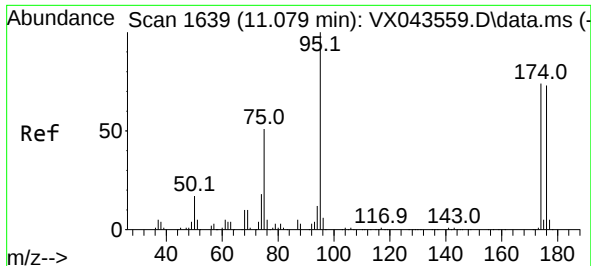
Tgt Ion: 43 Resp: 75245

Ion Ratio Lower Upper

43 100

58 19.9 27.5 82.5#





#62

4-Bromofluorobenzene

Concen: 43.609 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX043632.D

Acq: 30 Oct 2024 18:16

Instrument :

MSVOA\_X

ClientSampleId :

PB164501ZHE#10

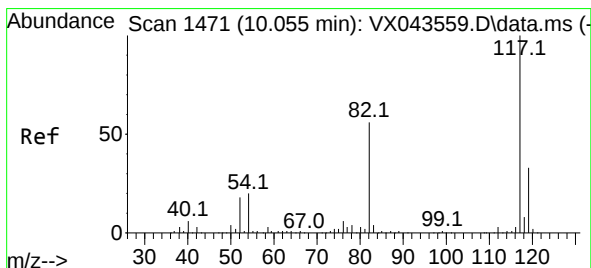
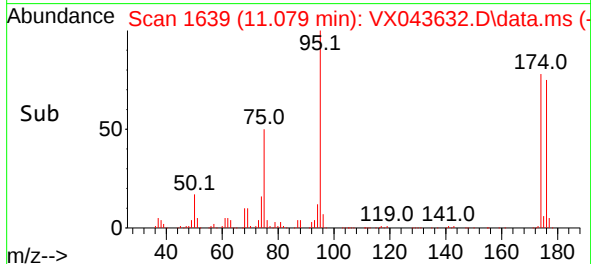
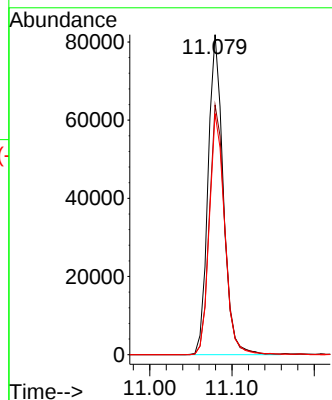
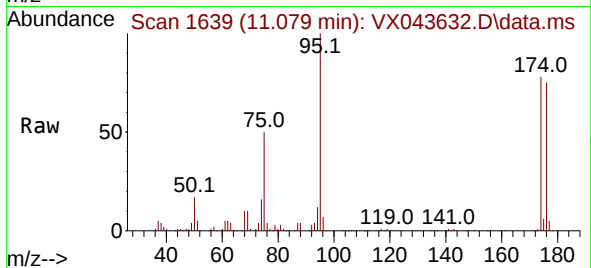
Tgt Ion: 95 Resp: 104893

Ion Ratio Lower Upper

95 100

174 79.6 0.0 146.6

176 76.5 0.0 139.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX043632.D

Acq: 30 Oct 2024 18:16

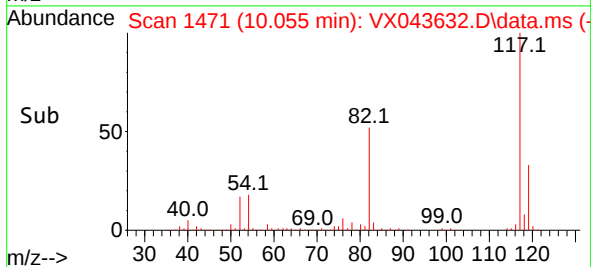
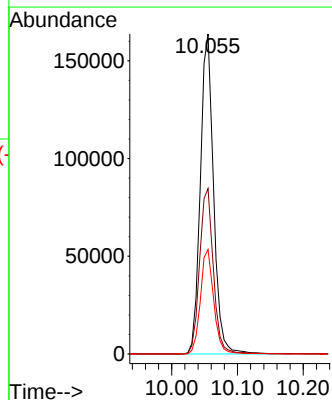
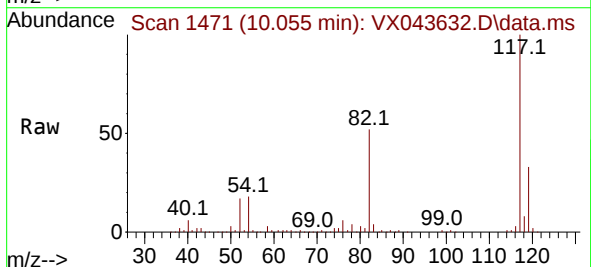
Tgt Ion: 117 Resp: 229396

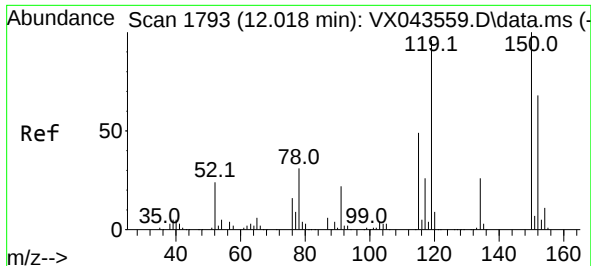
Ion Ratio Lower Upper

117 100

82 51.7 42.1 63.1

119 32.6 25.4 38.2

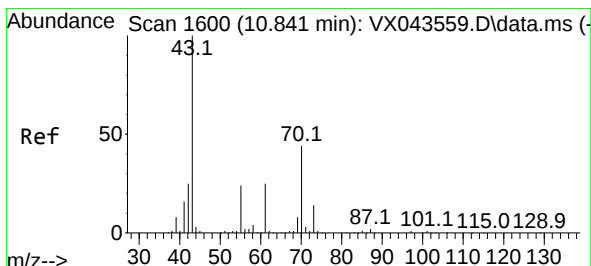
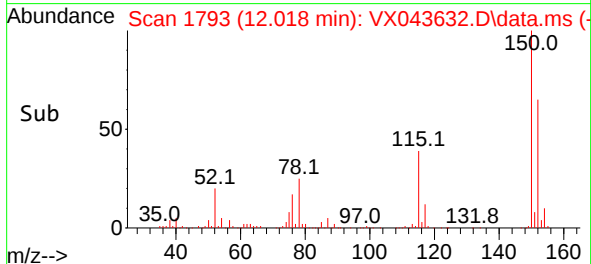
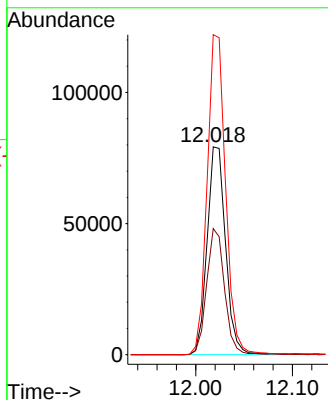
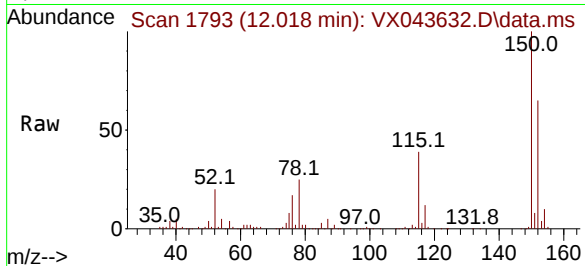




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

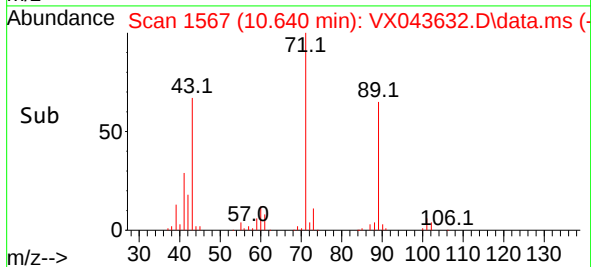
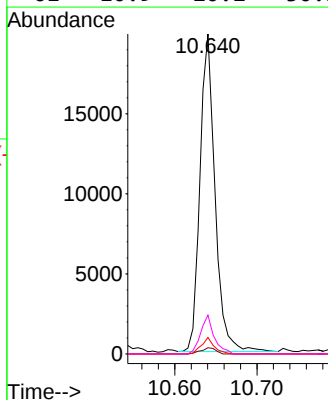
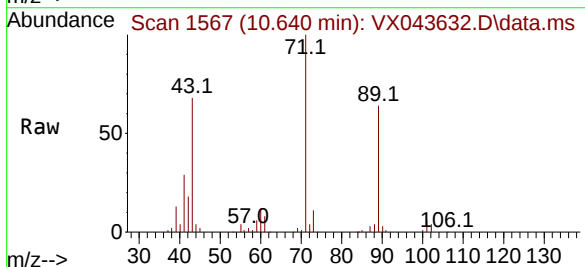
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164501ZHE#10

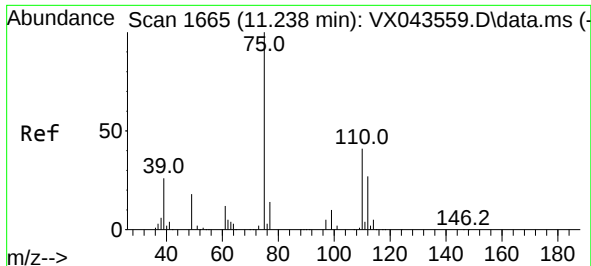
Tgt Ion:152 Resp: 105217  
Ion Ratio Lower Upper  
152 100  
115 58.9 42.9 128.7  
150 153.9 0.0 343.6



#74  
N-ethyl acetate  
Concen: 6.949 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.201 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

Tgt Ion: 43 Resp: 25232  
Ion Ratio Lower Upper  
43 100  
70 1.9 34.6 52.0#  
55 4.4 19.6 29.4#  
61 10.9 20.2 30.2#

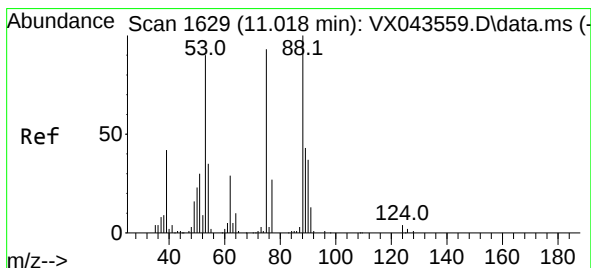
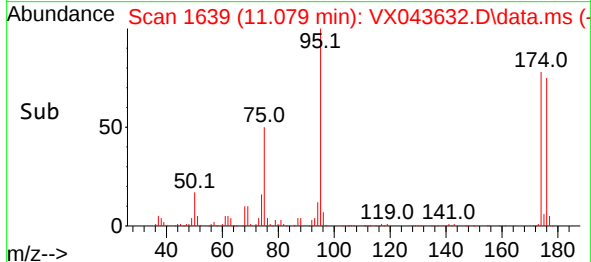
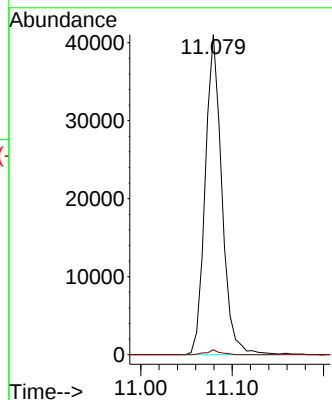
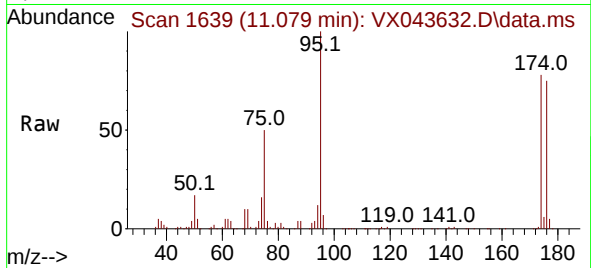




#76  
1,2,3-Trichloropropane  
Concen: 22.941 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB164501ZHE#10

Tgt Ion: 75 Resp: 51610  
Ion Ratio Lower Upper  
75 100  
77 1.2 22.4 67.2#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.112 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX043632.D  
Acq: 30 Oct 2024 18:16

Tgt Ion: 75 Resp: 51610  
Ion Ratio Lower Upper  
75 100  
53 0.0 84.6 126.8#  
89 0.0 38.6 58.0#

