

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051722\  
 Data File : VX028787.D  
 Acq On : 18 May 2022 03:22  
 Operator : JC/MD  
 Sample : PB144875ZHE#06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 43 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144875ZHE#06

Quant Time: May 18 05:01:44 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051222W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 12 14:58:53 2022  
 Response via : Initial Calibration

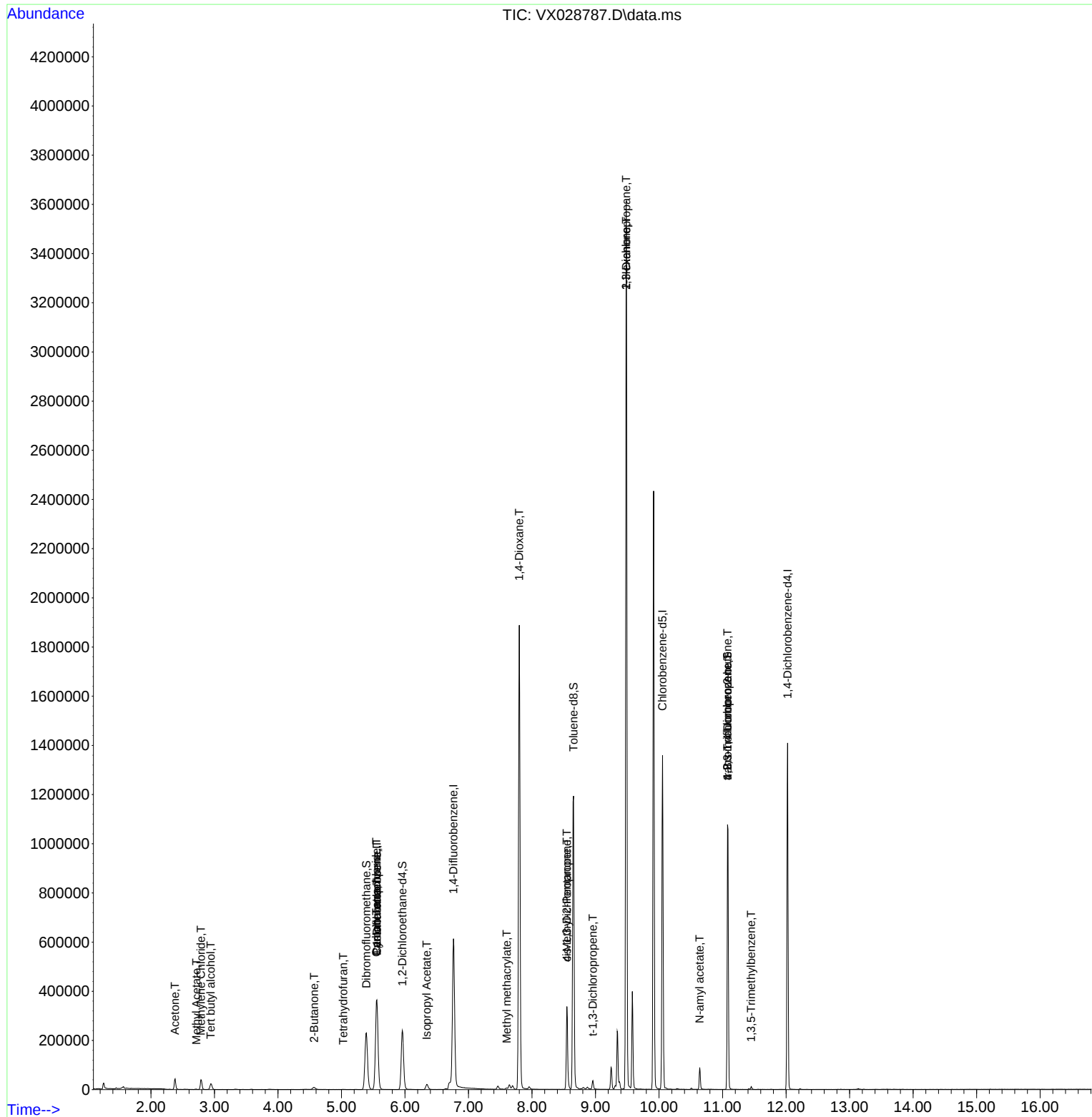
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.556     | 168   | 334808   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763     | 114   | 599019   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 580755   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 276089   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.958     | 65    | 242204   | 52.774    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 61 - 141 | Recovery  | = 105.540% |          |
| 35) Dibromofluoromethane      | 5.391     | 113   | 199736   | 50.892    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 69 - 133 | Recovery  | = 101.780% |          |
| 50) Toluene-d8                | 8.653     | 98    | 720979   | 48.725    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 65 - 126 | Recovery  | = 97.460%  |          |
| 62) 4-Bromofluorobenzene      | 11.079    | 95    | 292968   | 53.010    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 135 | Recovery  | = 106.020% |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 1.611     | 94    | 625      | Below Cal |            | 92       |
| 6) Chloroethane               | 1.685     | 64    | 244      | Below Cal | #          | 43       |
| 11) Tert butyl alcohol        | 2.941     | 59    | 14223    | 6.843     | ug/l #     | 75       |
| 16) Acetone                   | 2.380     | 43    | 45258    | 22.977    | ug/l       | 88       |
| 18) Methyl Acetate            | 2.715     | 43    | 2087     | 0.423     | ug/l       | 90       |
| 20) Methylene Chloride        | 2.788     | 84    | 18464    | 4.468     | ug/l       | 95       |
| 25) 2-Butanone                | 4.568     | 43    | 9180     | 2.969     | ug/l       | 93       |
| 29) Tetrahydrofuran           | 5.026     | 42    | 667      | 0.332     | ug/l #     | 41       |
| 31) Cyclohexane               | 5.556     | 56    | 7474     | 1.173     | ug/l #     | 28       |
| 36) 1,1-Dichloropropene       | 5.556     | 75    | 27457    | 4.658     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 5.550     | 117   | 35400    | 5.967     | ug/l #     | 15       |
| 43) Isopropyl Acetate         | 6.342     | 43    | 29214    | 3.033     | ug/l       | 94       |
| 48) Methyl methacrylate       | 7.604     | 41    | 8184     | 1.759     | ug/l #     | 7        |
| 49) 1,4-Dioxane               | 7.799     | 88    | 407      | 3.501     | ug/l #     | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549     | 43    | 113069   | 17.821    | ug/l #     | 43       |
| 53) t-1,3-Dichloropropene     | 8.958     | 75    | 95       | 1.654     | ug/l #     | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549     | 75    | 54018    | 8.192     | ug/l #     | 69       |
| 57) 1,3-Dichloropropane       | 9.482     | 76    | 33568    | 4.479     | ug/l #     | 43       |
| 59) 2-Hexanone                | 9.482     | 43    | 425520   | 86.323    | ug/l #     | 43       |
| 74) N-amyl acetate            | 10.640    | 43    | 20376    | 2.476     | ug/l #     | 45       |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 156198   | 24.158    | ug/l #     | 38       |
| 80) 1,3,5-Trimethylbenzene    | 11.451    | 105   | 4918     | 0.282     | ug/l       | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 156198   | 70.360    | ug/l #     | 15       |
| -----                         |           |       |          |           |            |          |

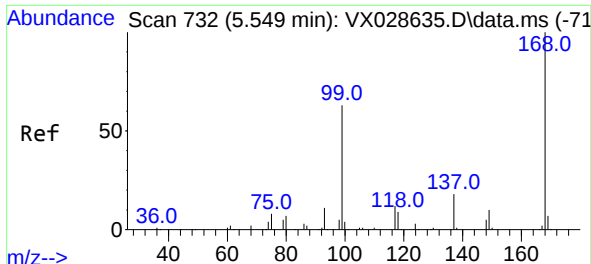
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 12 14:58:53 2022  
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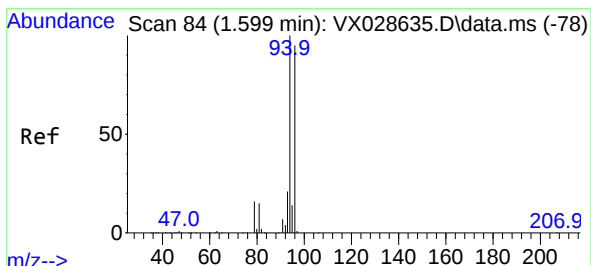
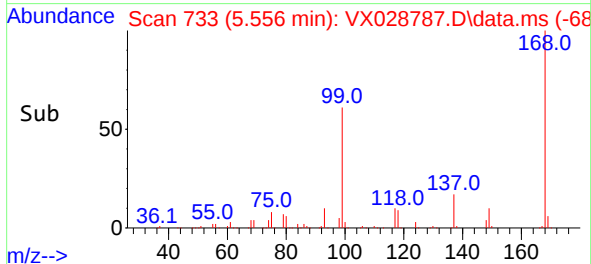
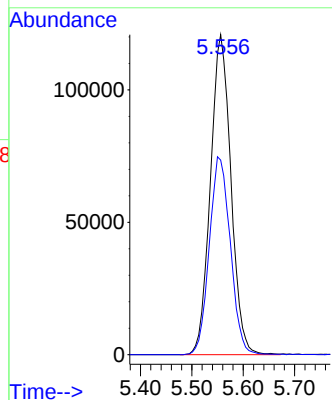
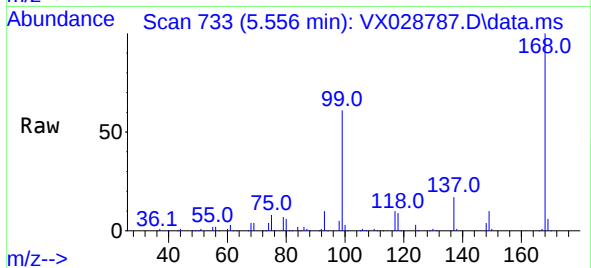




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.007 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

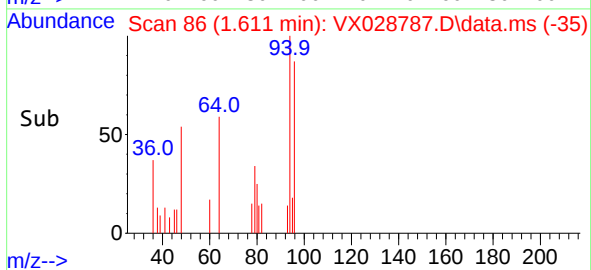
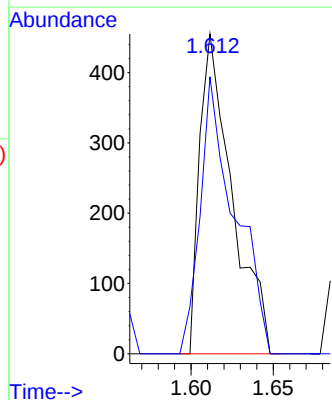
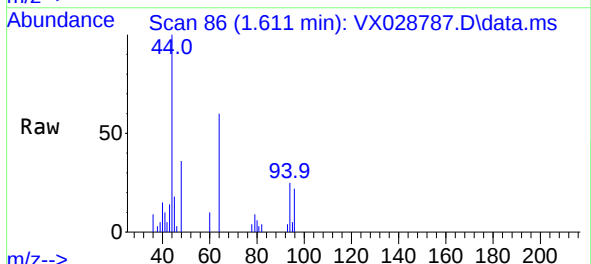
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#06

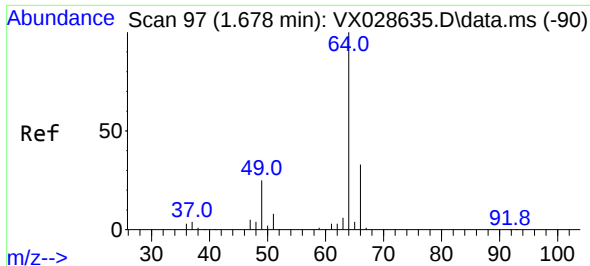
Tgt Ion:168 Resp: 334808  
Ion Ratio Lower Upper  
168 100  
99 60.8 41.7 62.5



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.611 min Scan# 86  
Delta R.T. 0.012 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

Tgt Ion: 94 Resp: 625  
Ion Ratio Lower Upper  
94 100  
96 86.6 75.3 112.9

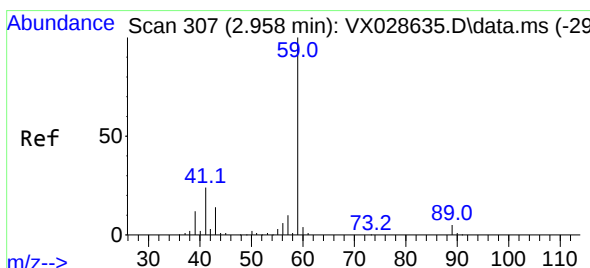
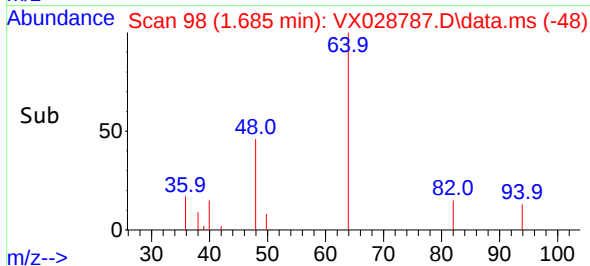
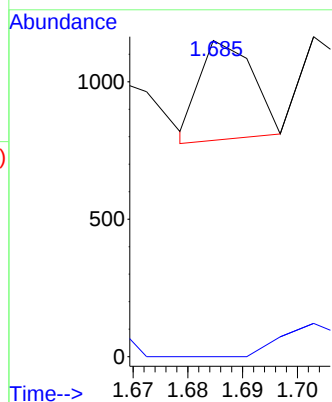
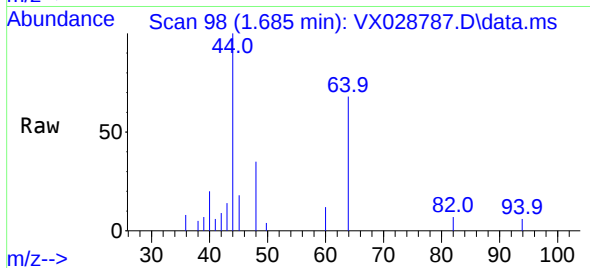




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.685 min Scan# 91  
Delta R.T. 0.007 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

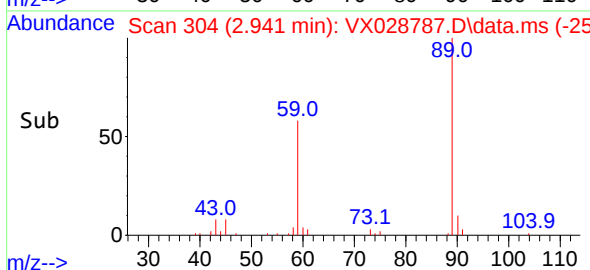
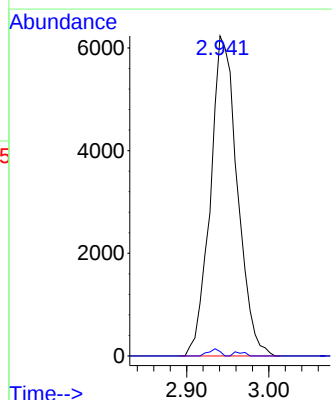
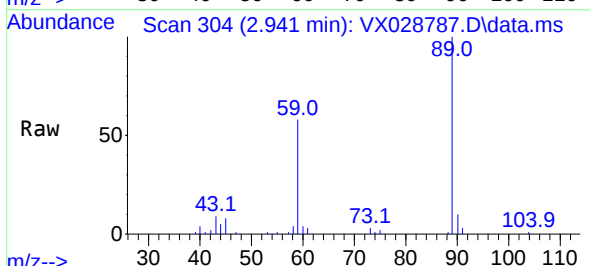
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#06

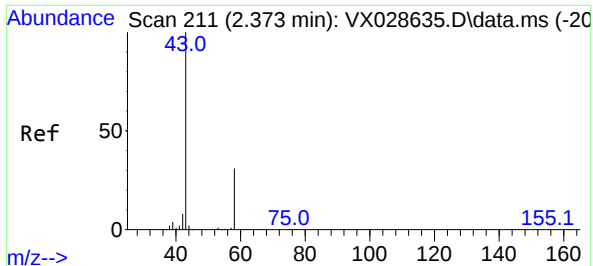
Tgt Ion: 64 Resp: 244  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.3 37.9#



#11  
Tert butyl alcohol  
Concen: 6.843 ug/l  
RT: 2.941 min Scan# 304  
Delta R.T. -0.017 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

Tgt Ion: 59 Resp: 14223  
Ion Ratio Lower Upper  
59 100  
57 0.9 8.3 12.5#

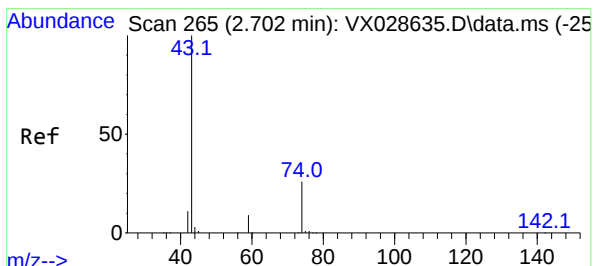
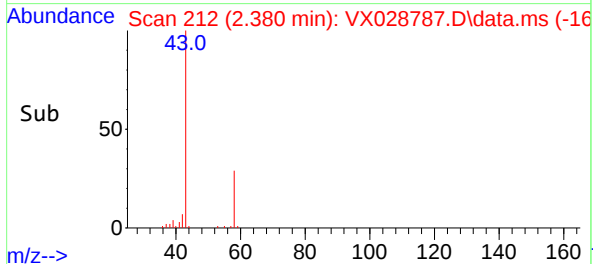
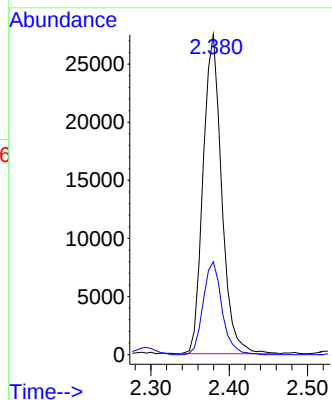
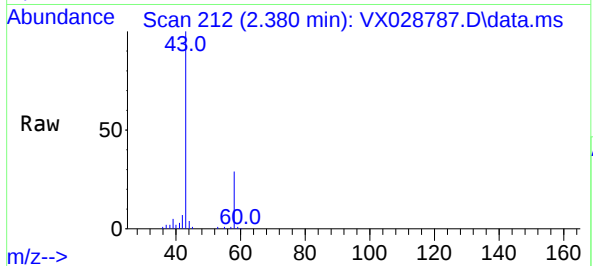




#16  
Acetone  
Concen: 22.977 ug/l  
RT: 2.380 min Scan# 211  
Delta R.T. 0.007 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

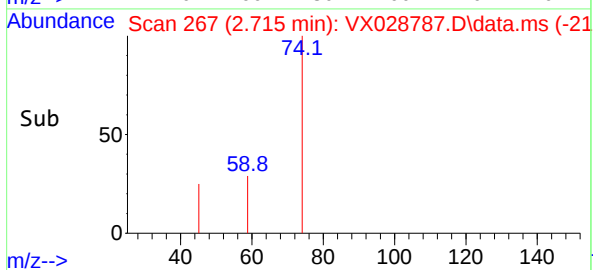
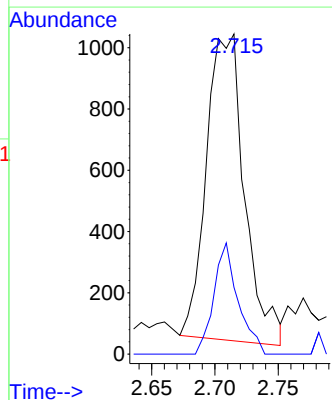
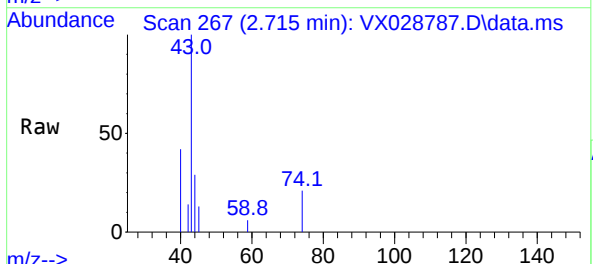
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#06

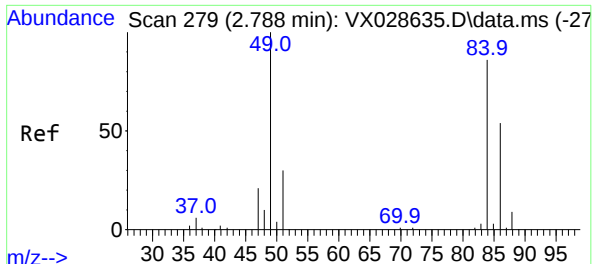
Tgt Ion: 43 Resp: 45258  
Ion Ratio Lower Upper  
43 100  
58 29.1 28.8 43.2



#18  
Methyl Acetate  
Concen: 0.423 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.013 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

Tgt Ion: 43 Resp: 2087  
Ion Ratio Lower Upper  
43 100  
74 23.2 22.8 34.2





#20

Methylene Chloride

Concen: 4.468 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX028787.D

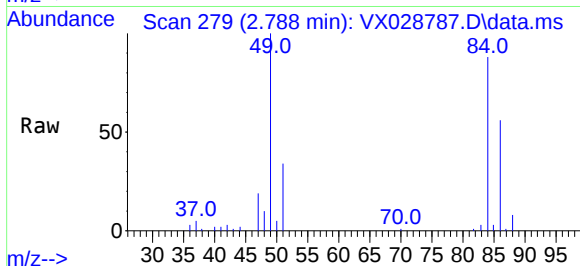
Acq: 18 May 2022 03:22

Instrument :

MSVOA\_X

ClientSampleId :

PB144875ZHE#06



Tgt Ion: 84 Resp: 18464

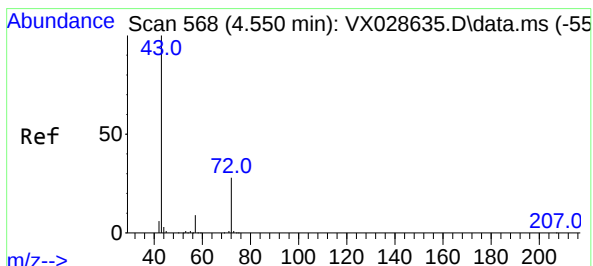
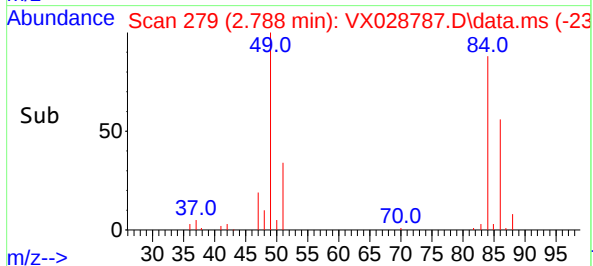
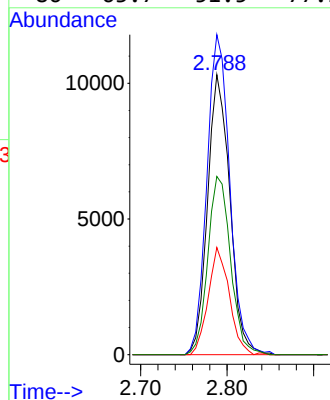
Ion Ratio Lower Upper

84 100

49 114.3 85.5 128.3

51 38.3 26.6 39.8

86 63.7 51.5 77.3



#25

2-Butanone

Concen: 2.969 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.018 min

Lab File: VX028787.D

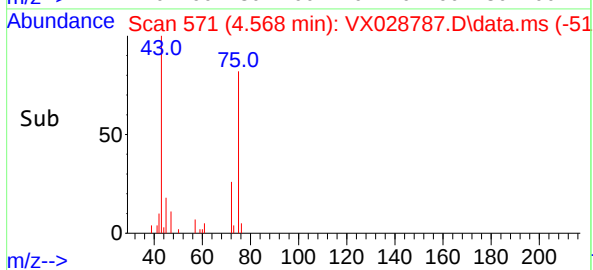
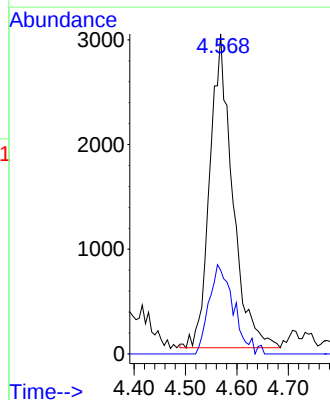
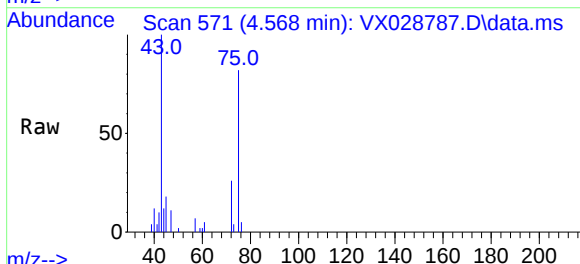
Acq: 18 May 2022 03:22

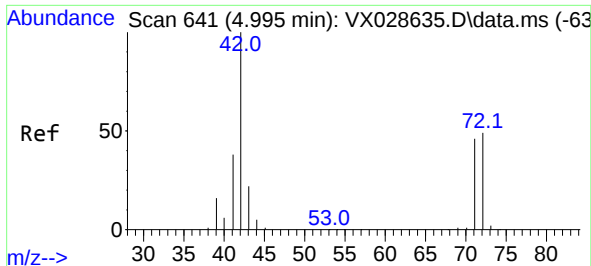
Tgt Ion: 43 Resp: 9180

Ion Ratio Lower Upper

43 100

72 26.7 24.4 36.6





#29

Tetrahydrofuran

Concen: 0.332 ug/l

RT: 5.026 min Scan# 641

Delta R.T. 0.031 min

Lab File: VX028787.D

Acq: 18 May 2022 03:22

Instrument :

MSVOA\_X

ClientSampleId :

PB144875ZHE#06

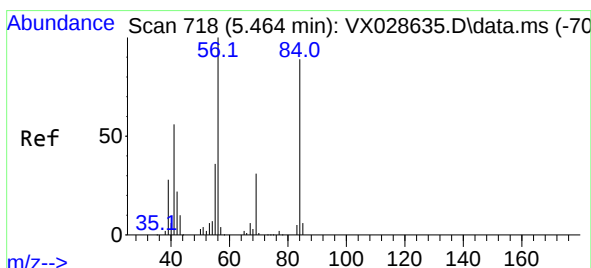
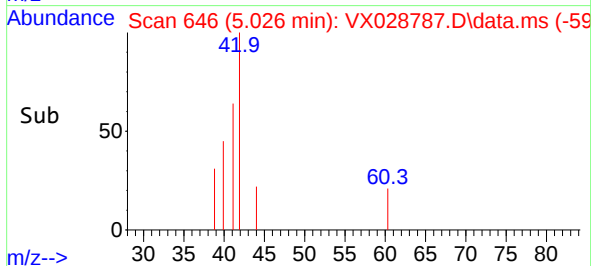
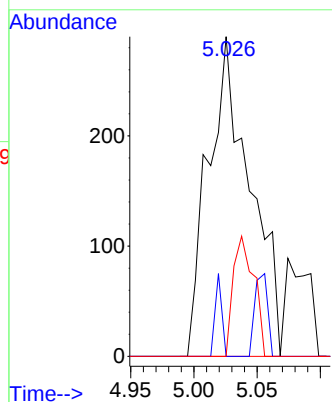
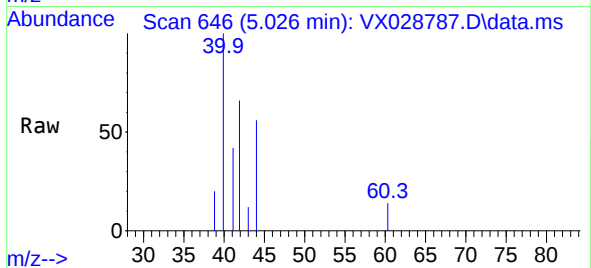
Tgt Ion: 42 Resp: 667

Ion Ratio Lower Upper

42 100

72 4.0 44.1 66.1#

71 18.6 40.5 60.7#



#31

Cyclohexane

Concen: 1.173 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.092 min

Lab File: VX028787.D

Acq: 18 May 2022 03:22

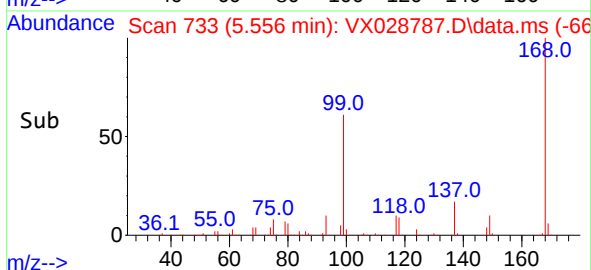
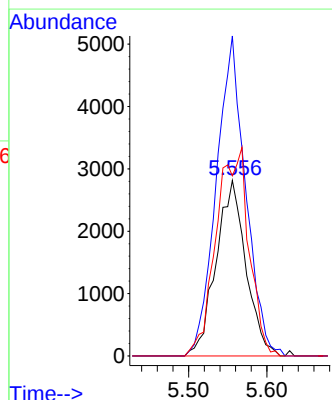
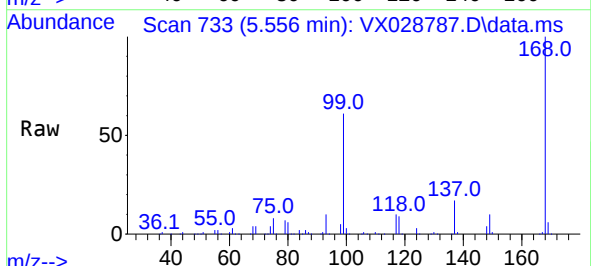
Tgt Ion: 56 Resp: 7474

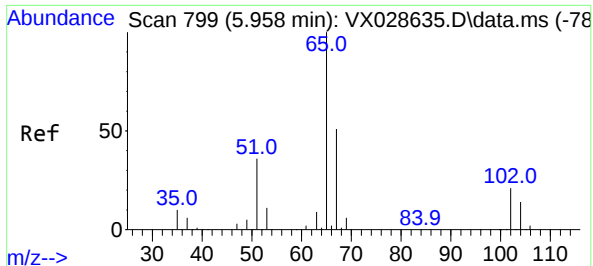
Ion Ratio Lower Upper

56 100

69 182.2 26.7 40.1#

84 102.6 77.2 115.8

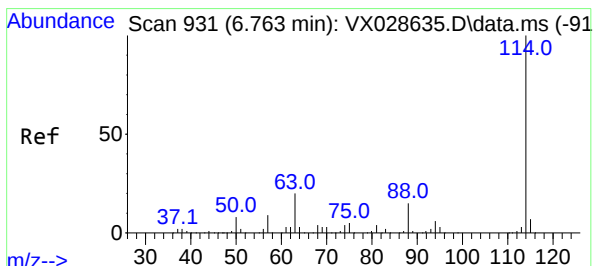
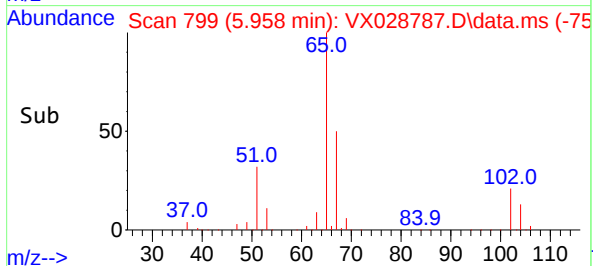
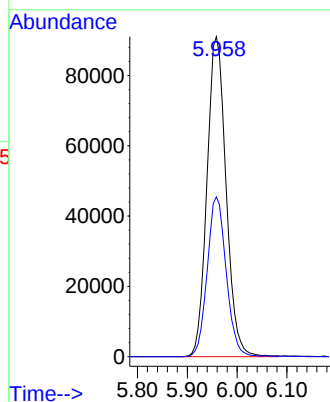
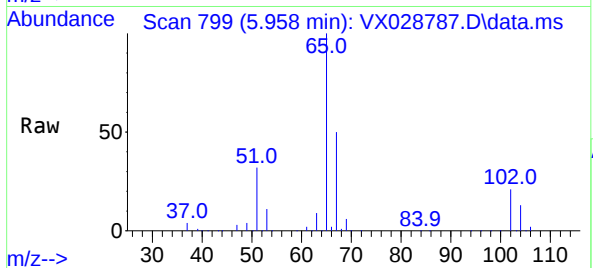




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.774 ug/l  
 RT: 5.958 min Scan# 799  
 Delta R.T. 0.000 min  
 Lab File: VX028787.D  
 Acq: 18 May 2022 03:22

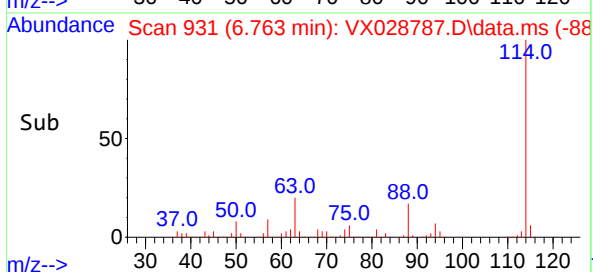
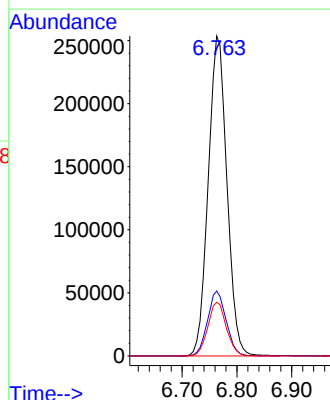
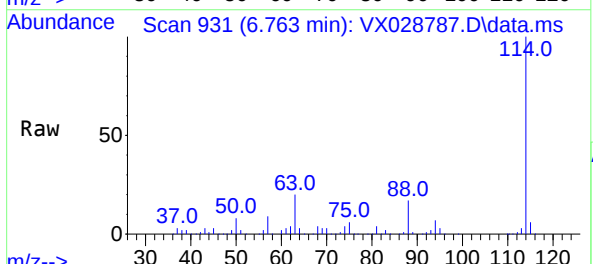
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144875ZHE#06

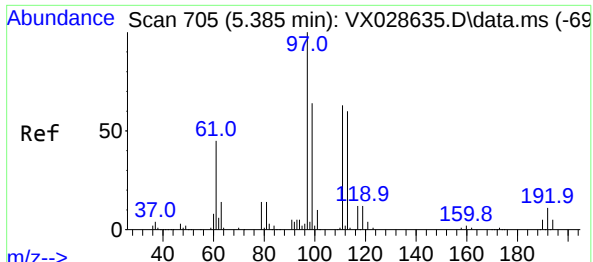
Tgt Ion: 65 Resp: 242204  
 Ion Ratio Lower Upper  
 65 100  
 67 49.7 0.0 107.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. 0.000 min  
 Lab File: VX028787.D  
 Acq: 18 May 2022 03:22

Tgt Ion: 114 Resp: 599019  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 36.8  
 88 16.7 0.0 32.4

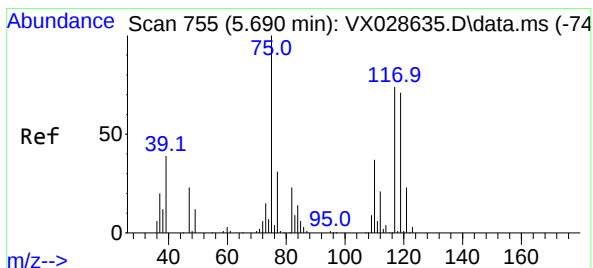
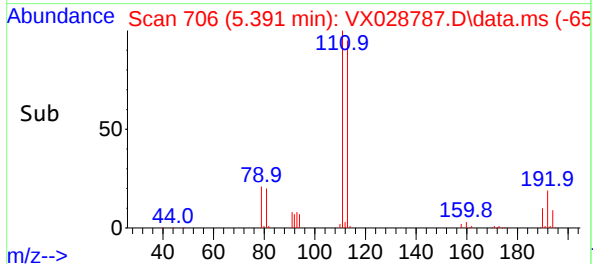
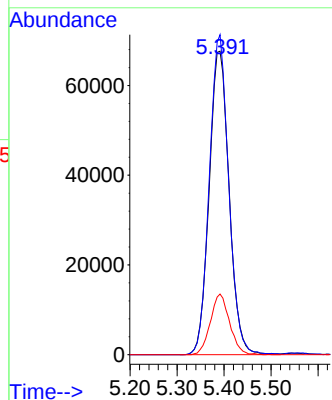
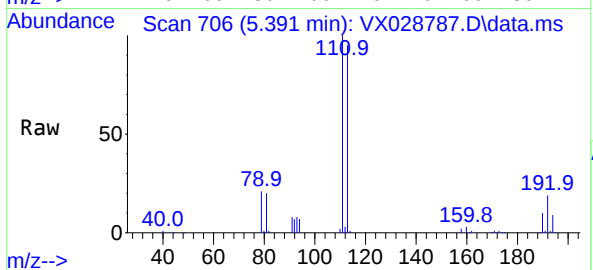




#35  
Dibromofluoromethane  
Concen: 50.892 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

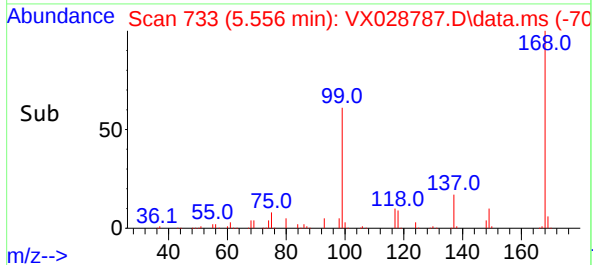
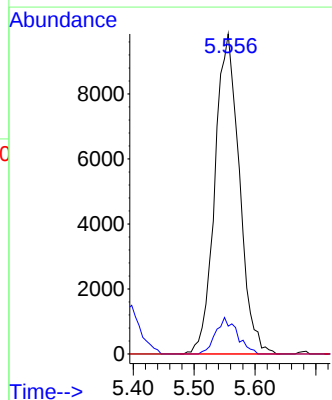
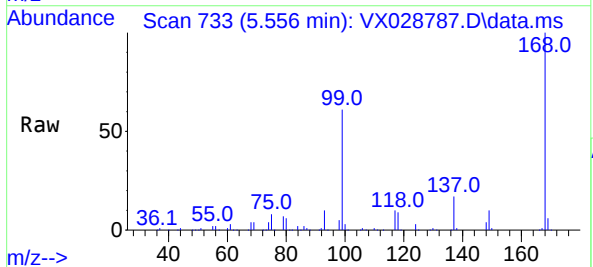
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#06

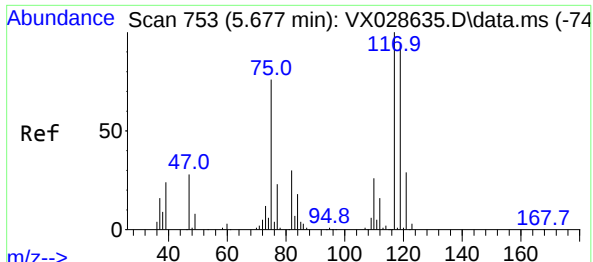
Tgt Ion:113 Resp: 199736  
Ion Ratio Lower Upper  
113 100  
111 102.2 82.8 124.2  
192 19.2 16.9 25.3



#36  
1,1-Dichloropropene  
Concen: 4.658 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.134 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

Tgt Ion: 75 Resp: 27457  
Ion Ratio Lower Upper  
75 100  
110 10.1 18.3 54.8#  
77 0.0 24.8 37.2#

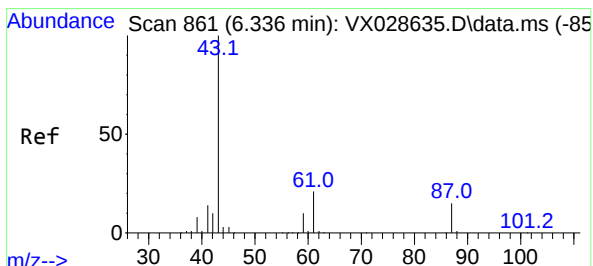
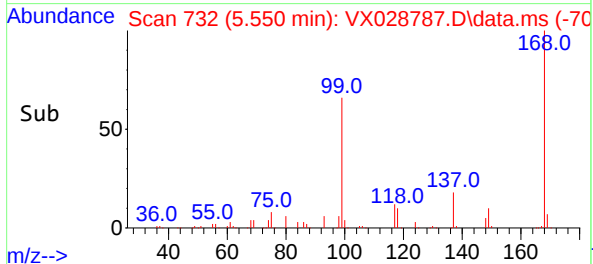
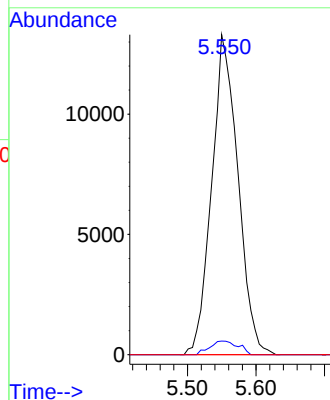
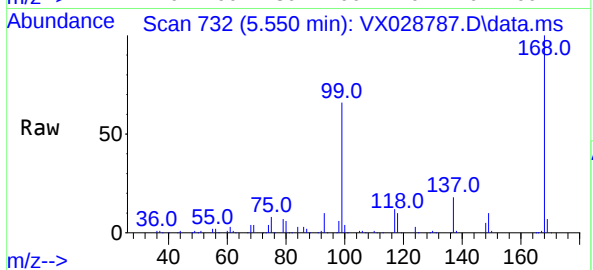




#38  
Carbon Tetrachloride  
Concen: 5.967 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.127 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

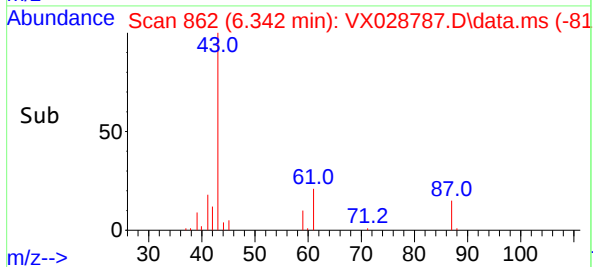
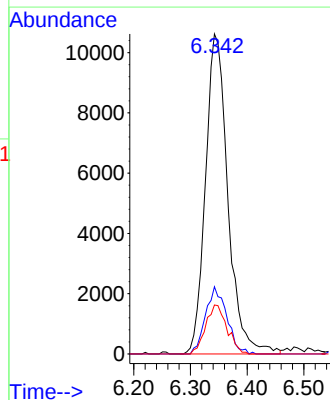
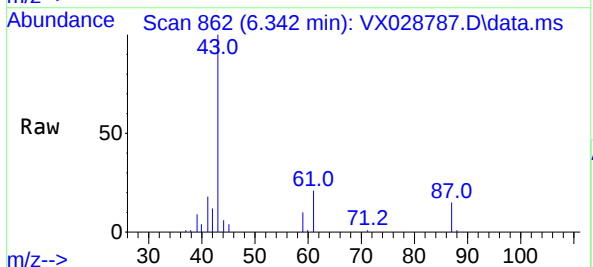
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#06

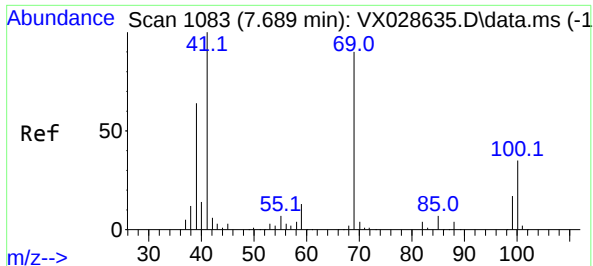
Tgt Ion:117 Resp: 35400  
Ion Ratio Lower Upper  
117 100  
119 4.2 77.3 115.9#  
121 0.0 24.2 36.2#



#43  
Isopropyl Acetate  
Concen: 3.033 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.006 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

Tgt Ion: 43 Resp: 29214  
Ion Ratio Lower Upper  
43 100  
61 19.9 18.5 27.7  
87 14.6 13.0 19.6





#48

Methyl methacrylate

Concen: 1.759 ug/l

RT: 7.604 min Scan# 1100

Delta R.T. -0.085 min

Lab File: VX028787.D

Acq: 18 May 2022 03:22

Instrument :

MSVOA\_X

ClientSampleId :

PB144875ZHE#06

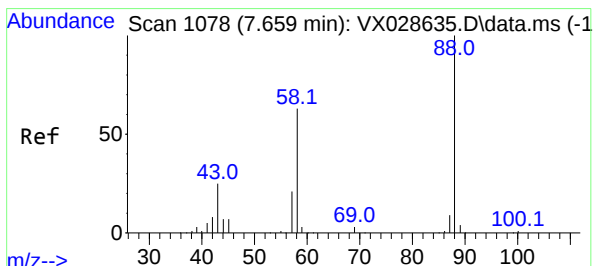
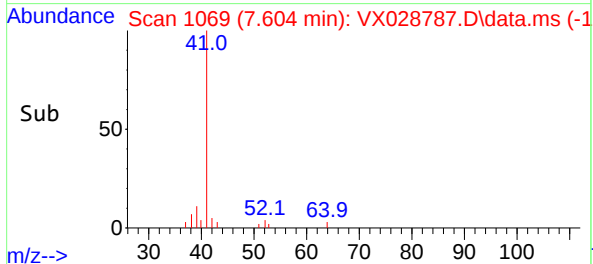
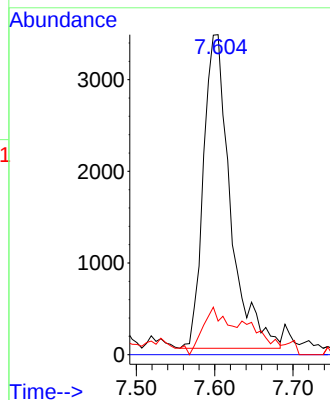
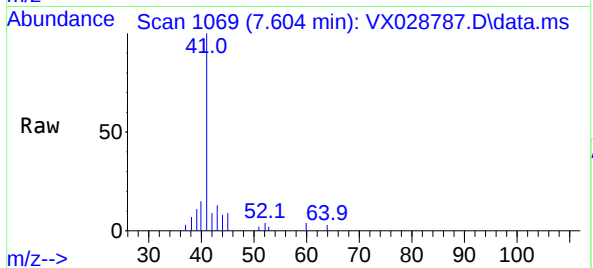
Tgt Ion: 41 Resp: 8184

Ion Ratio Lower Upper

41 100

69 0.0 82.5 123.7#

39 0.0 43.8 65.8#



#49

1,4-Dioxane

Concen: 3.501 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.140 min

Lab File: VX028787.D

Acq: 18 May 2022 03:22

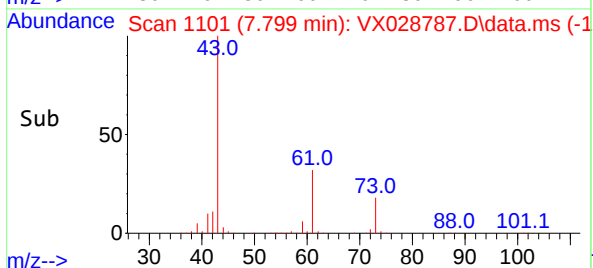
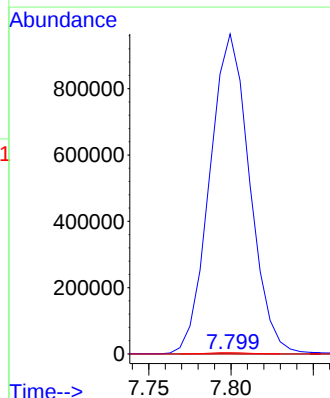
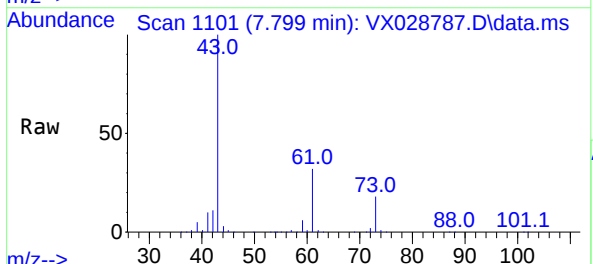
Tgt Ion: 88 Resp: 407

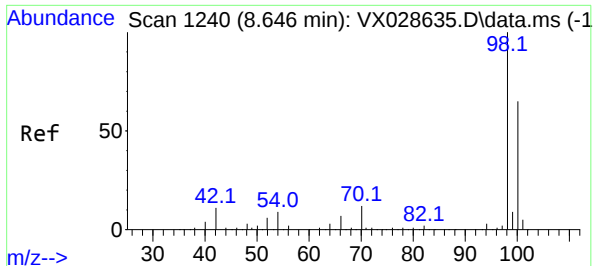
Ion Ratio Lower Upper

88 100

43 402305.2 21.9 32.9#

58 1703.9 53.7 80.5#

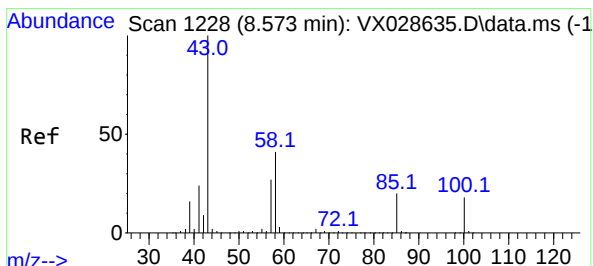
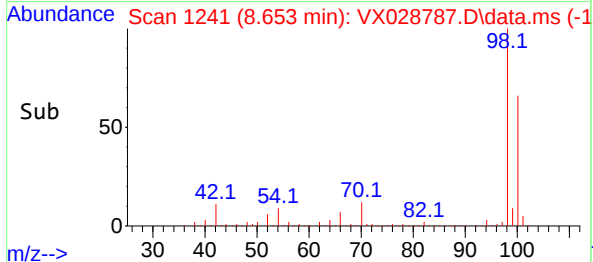
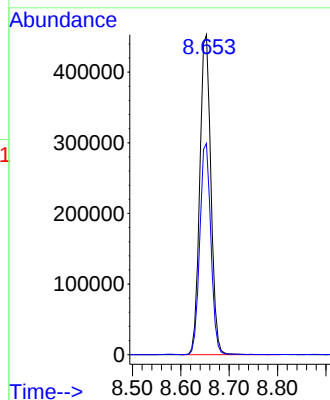
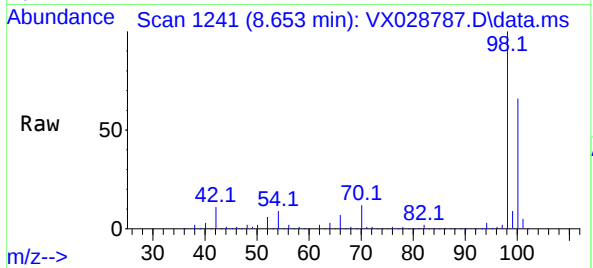




#50  
Toluene-d8  
Concen: 48.725 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.007 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

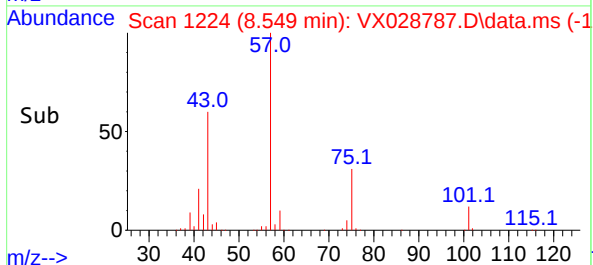
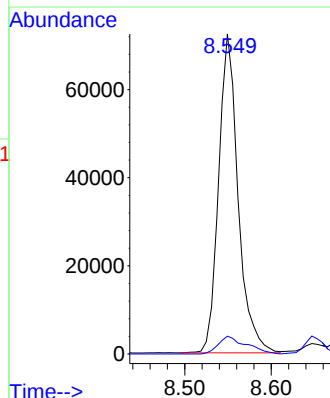
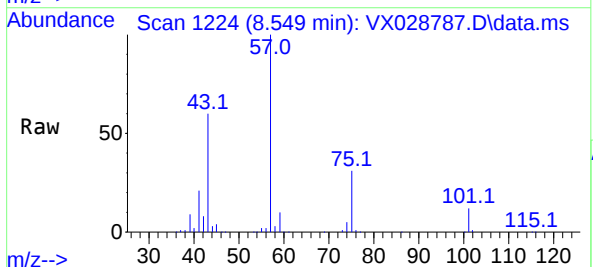
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#06

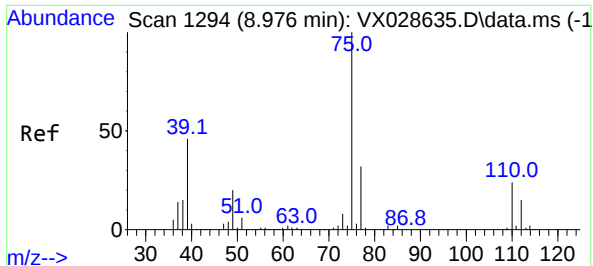
Tgt Ion: 98 Resp: 720979  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 17.821 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

Tgt Ion: 43 Resp: 113069  
Ion Ratio Lower Upper  
43 100  
58 7.9 36.1 54.1#





#53

t-1,3-Dichloropropene

Concen: 1.654 ug/l

RT: 8.958 min Scan# 11

Delta R.T. -0.018 min

Lab File: VX028787.D

Acq: 18 May 2022 03:22

Instrument :

MSVOA\_X

ClientSampleId :

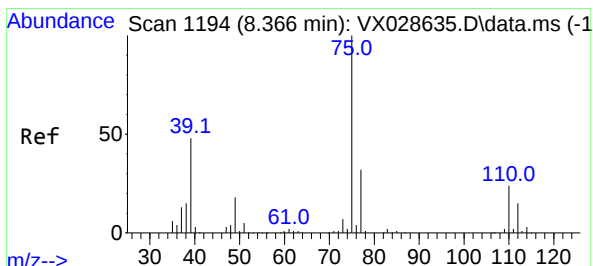
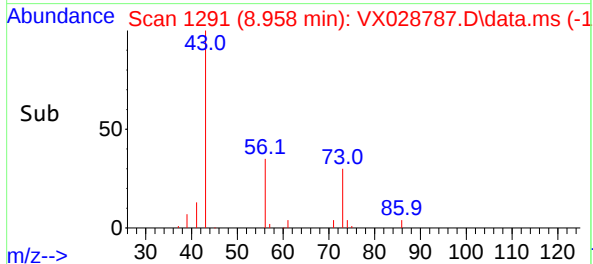
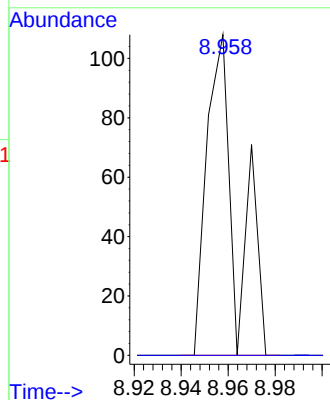
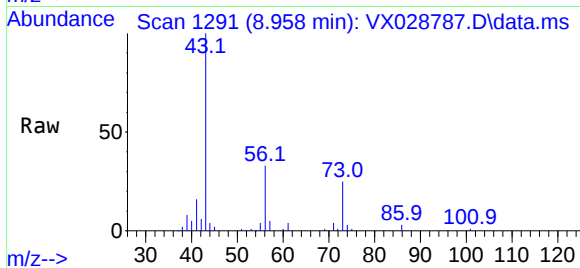
PB144875ZHE#06

Tgt Ion: 75 Resp: 95

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



#54

cis-1,3-Dichloropropene

Concen: 8.192 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX028787.D

Acq: 18 May 2022 03:22

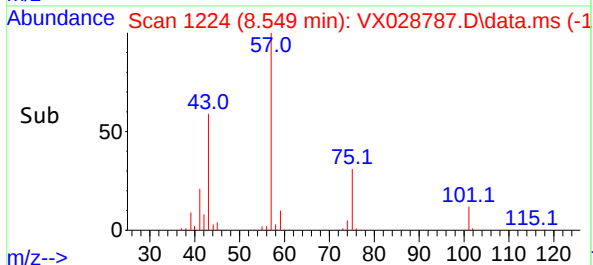
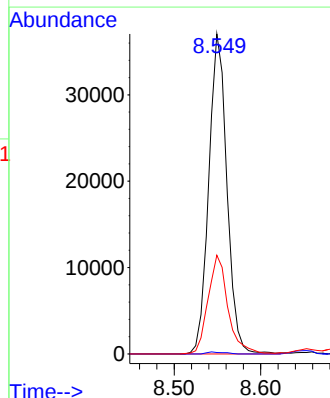
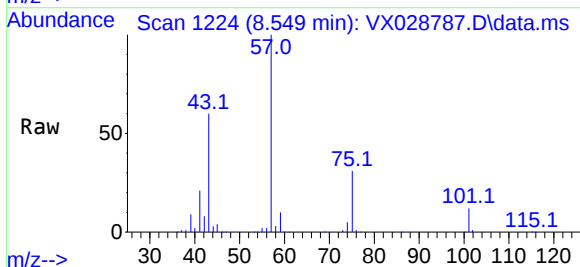
Tgt Ion: 75 Resp: 54018

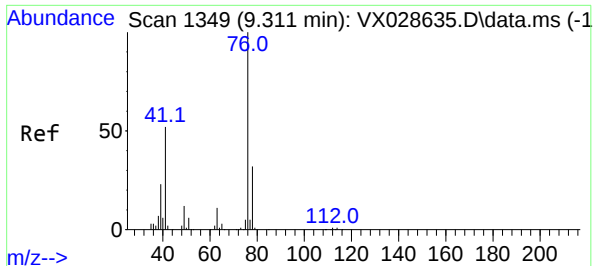
Ion Ratio Lower Upper

75 100

77 0.4 24.8 37.2#

39 30.9 29.6 44.4

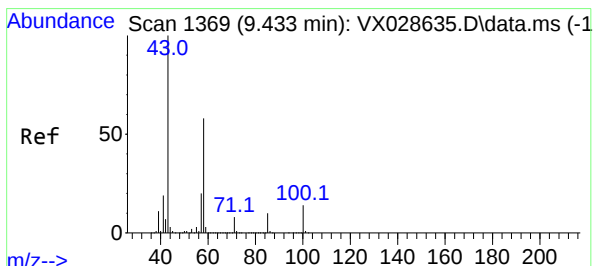
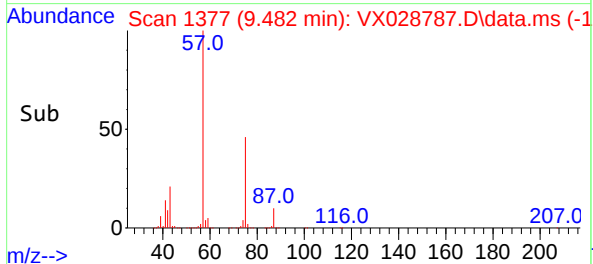
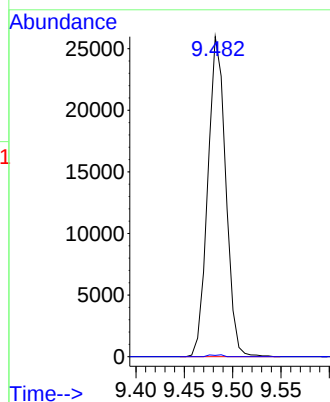
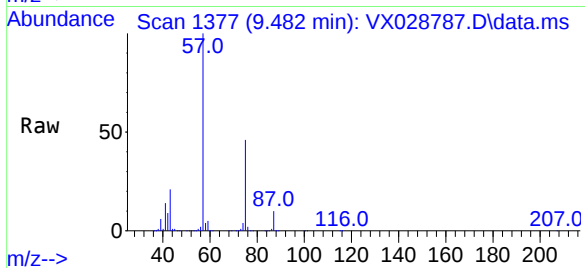




#57  
1,3-Dichloropropane  
Concen: 4.479 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.171 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

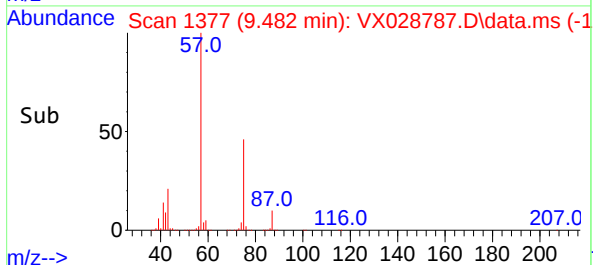
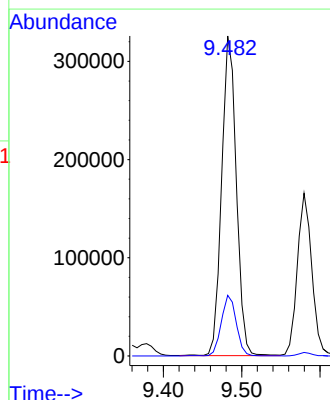
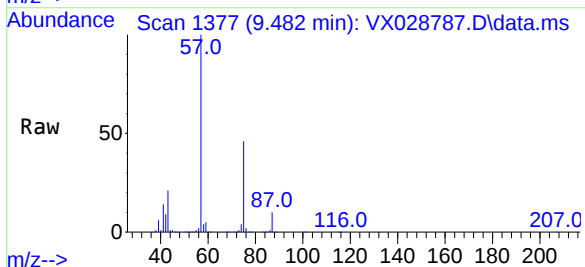
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#06

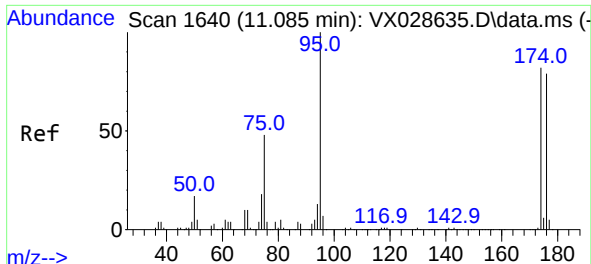
Tgt Ion: 76 Resp: 33568  
Ion Ratio Lower Upper  
76 100  
78 0.4 25.8 38.8#



#59  
2-Hexanone  
Concen: 86.323 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.049 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

Tgt Ion: 43 Resp: 425520  
Ion Ratio Lower Upper  
43 100  
58 19.4 31.9 95.7#

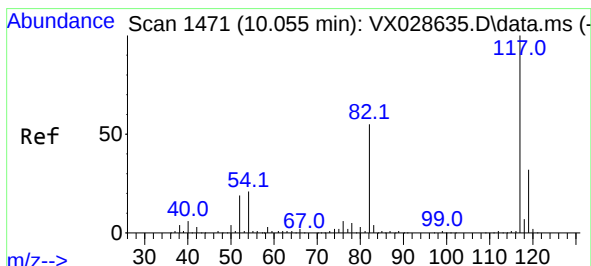
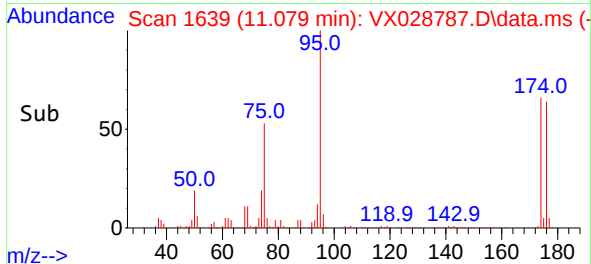
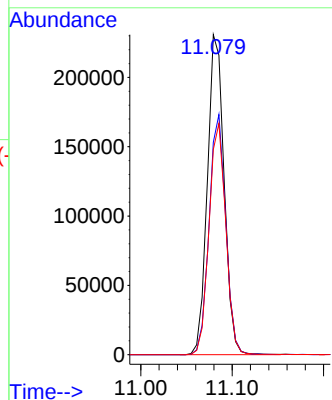
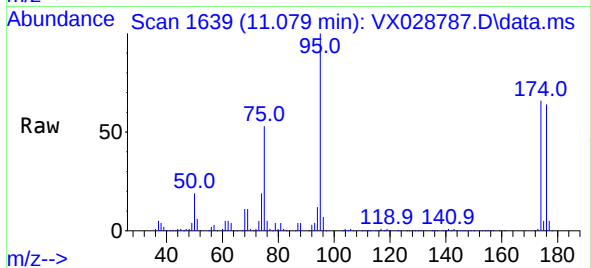




#62  
4-Bromofluorobenzene  
Concen: 53.010 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.006 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

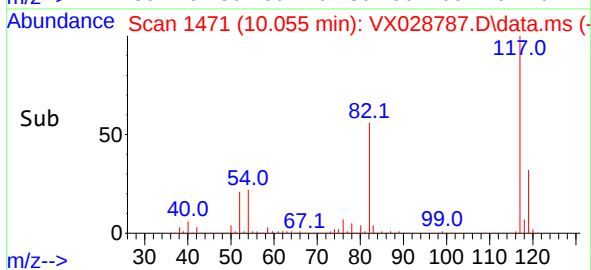
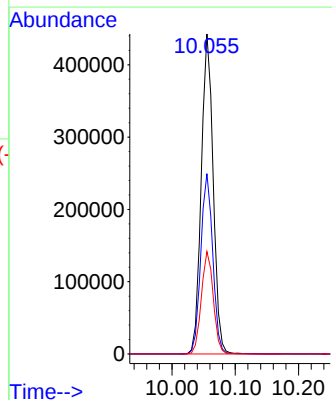
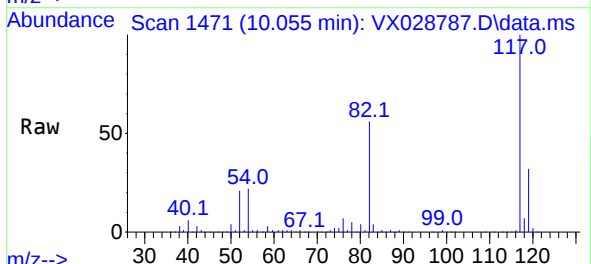
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#06

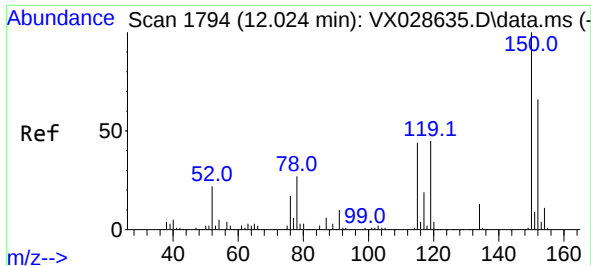
Tgt Ion: 95 Resp: 292968  
Ion Ratio Lower Upper  
95 100  
174 74.6 0.0 163.0  
176 72.5 0.0 155.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

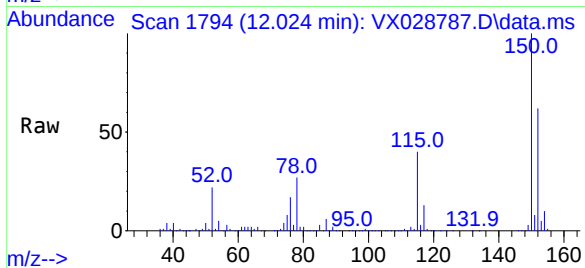
Tgt Ion: 117 Resp: 580755  
Ion Ratio Lower Upper  
117 100  
82 56.4 41.8 62.8  
119 32.0 24.8 37.2



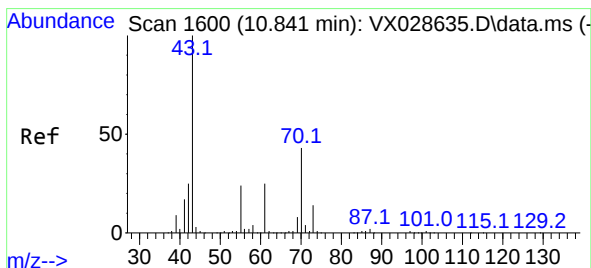
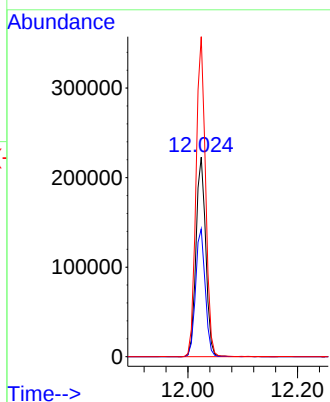
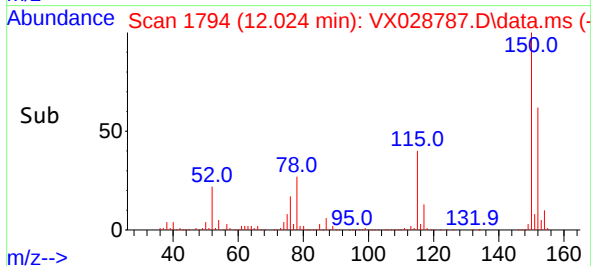


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

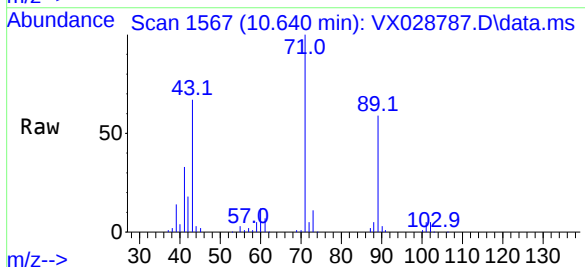
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#06



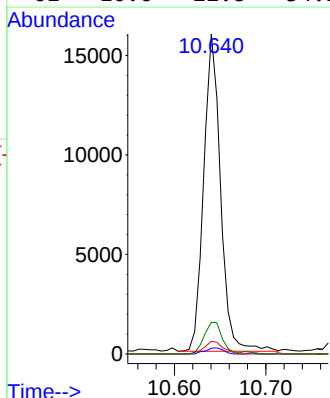
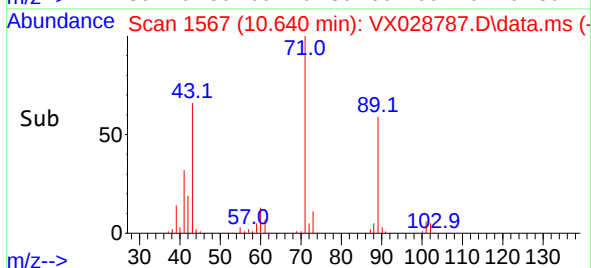
Tgt Ion:152 Resp: 276089  
Ion Ratio Lower Upper  
152 100  
115 63.6 37.5 112.7  
150 157.4 0.0 338.2

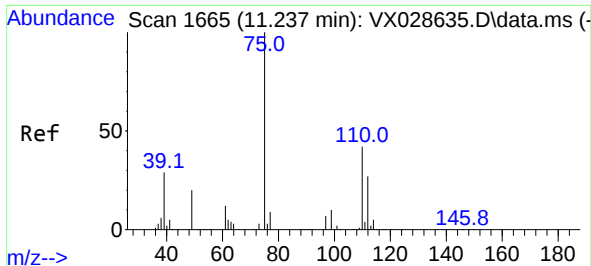


#74  
N-ethyl acetate  
Concen: 2.476 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.201 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22



Tgt Ion: 43 Resp: 20376  
Ion Ratio Lower Upper  
43 100  
70 2.0 42.5 63.7#  
55 4.4 23.1 34.7#  
61 10.6 22.8 34.2#

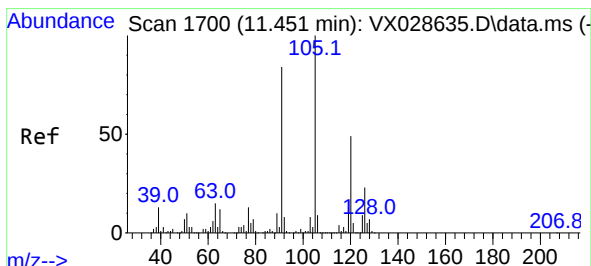
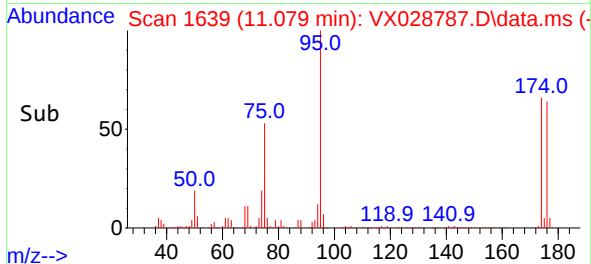
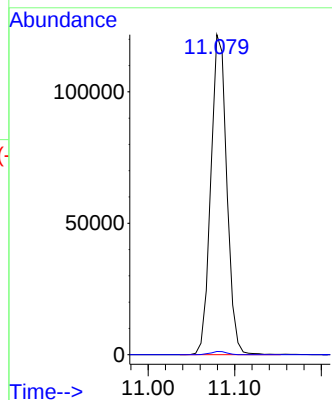
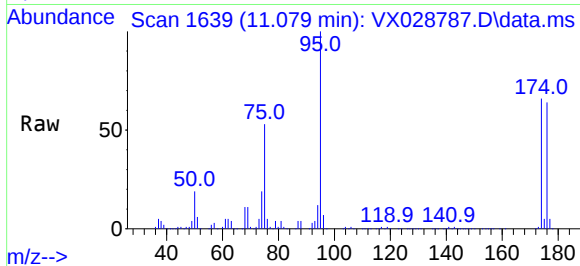




#76  
1,2,3-Trichloropropane  
Concen: 24.158 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

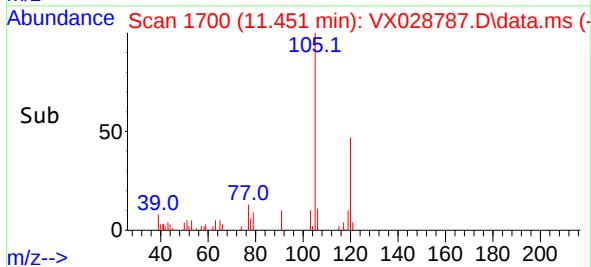
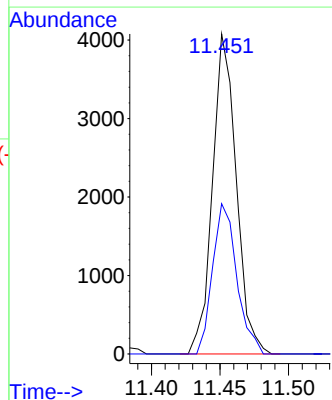
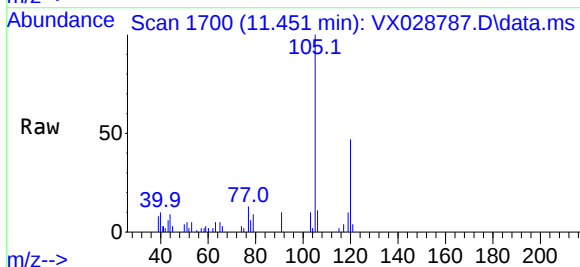
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB144875ZHE#06

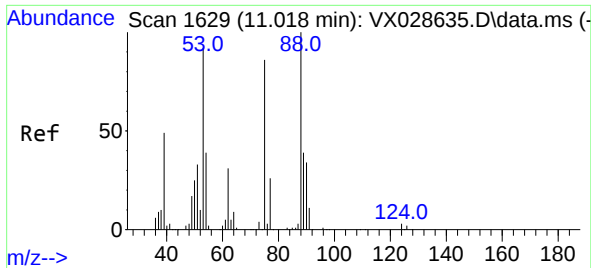
Tgt Ion: 75 Resp: 156198  
Ion Ratio Lower Upper  
75 100  
77 1.0 19.4 58.2#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.282 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX028787.D  
Acq: 18 May 2022 03:22

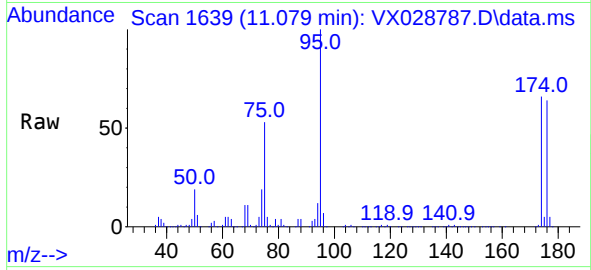
Tgt Ion: 105 Resp: 4918  
Ion Ratio Lower Upper  
105 100  
120 47.9 24.3 72.9





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 70.360 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX028787.D  
 Acq: 18 May 2022 03:22

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB144875ZHE#06



Tgt Ion: 75 Resp: 156198  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 69.0 103.4#  
 89 0.0 37.0 55.6#

