

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX090722\  
 Data File : VX031199.D  
 Acq On : 08 Sep 2022 08:25  
 Operator : JC/MD  
 Sample : PB147495ZHE#03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 56 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB147495ZHE#03

Quant Time: Sep 08 13:59:40 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X090722W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 07 23:22:41 2022  
 Response via : Initial Calibration

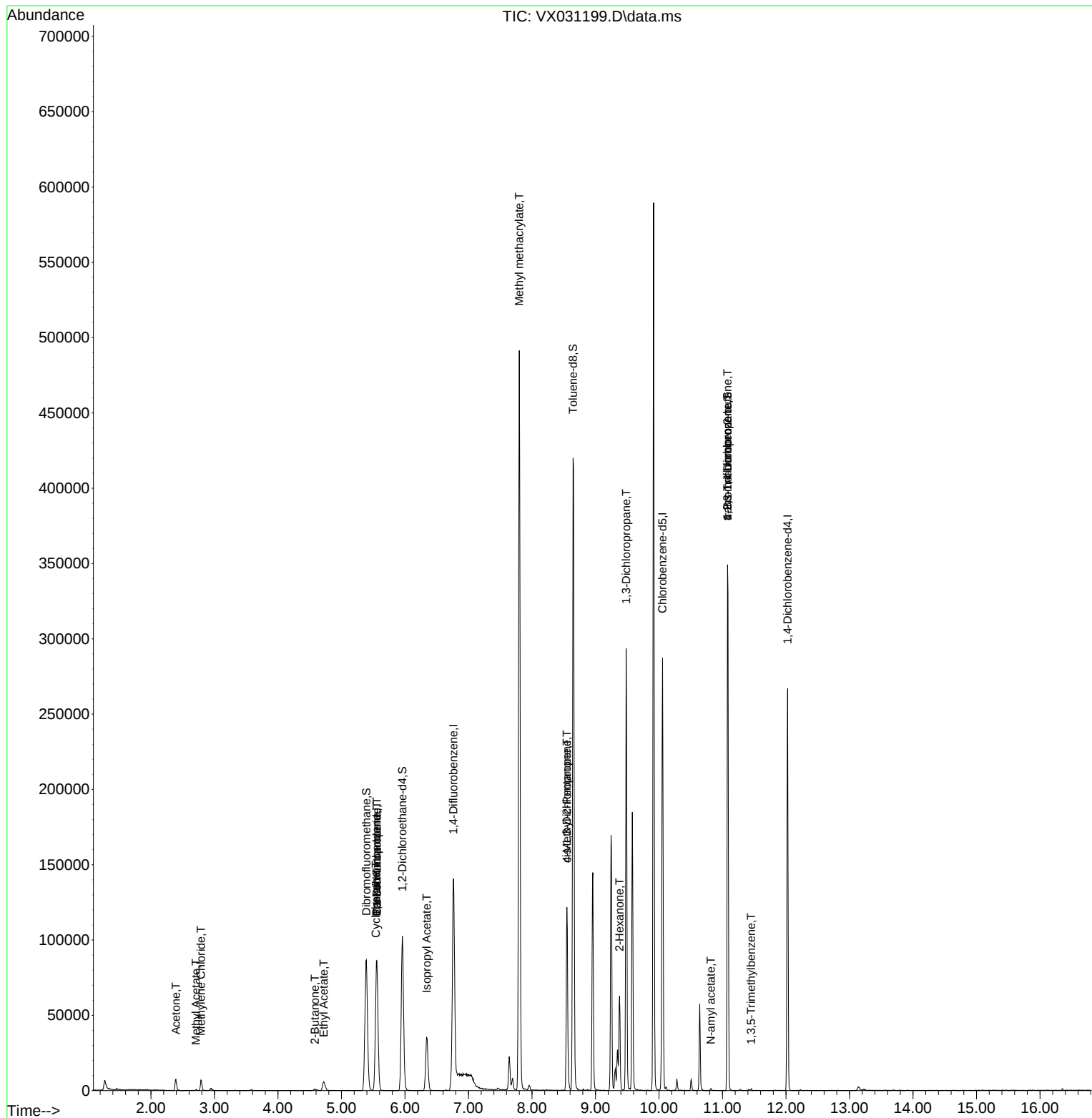
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|-----------|--------|-----------|
| -----                         |        |       |          |           |        |           |
| Internal Standards            |        |       |          |           |        |           |
| 1) Pentafluorobenzene         | 5.550  | 168   | 70153    | 50.000    | ug/l   | # 0.00    |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 127712   | 50.000    | ug/l   | 0.00      |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 117093   | 50.000    | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 49649    | 50.000    | ug/l   | 0.00      |
| System Monitoring Compounds   |        |       |          |           |        |           |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 108129   | 65.102    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 130.200%# |
| 35) Dibromofluoromethane      | 5.391  | 113   | 75070    | 53.941    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 107.880%  |
| 50) Toluene-d8                | 8.647  | 98    | 254049   | 50.243    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 100.480%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 98295    | 53.046    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 106.100%  |
| Target Compounds              |        |       |          |           |        |           |
|                               |        |       |          |           | Qvalue |           |
| 11) Tert butyl alcohol        | 2.947  | 59    | 778      | Below Cal | #      | 74        |
| 16) Acetone                   | 2.392  | 43    | 8824     | 15.344    | ug/l   | # 86      |
| 18) Methyl Acetate            | 2.709  | 43    | 937      | 0.629     | ug/l   | # 86      |
| 20) Methylene Chloride        | 2.788  | 84    | 3216     | 2.379     | ug/l   | # 76      |
| 25) 2-Butanone                | 4.581  | 43    | 895      | 1.051     | ug/l   | # 86      |
| 31) Cyclohexane               | 5.544  | 56    | 1992     | 1.073     | ug/l   | # 47      |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 6744     | 3.236     | ug/l   | # 50      |
| 37) Ethyl Acetate             | 4.721  | 43    | 10222    | 5.529     | ug/l   | # 96      |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 9407     | 4.290     | ug/l   | # 17      |
| 43) Isopropyl Acetate         | 6.342  | 43    | 46957    | 16.108    | ug/l   | 96        |
| 48) Methyl methacrylate       | 7.799  | 41    | 44218    | 31.149    | ug/l   | # 40      |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 41017    | 22.978    | ug/l   | # 49      |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 20340    | 8.474     | ug/l   | # 63      |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 2782     | 1.049     | ug/l   | # 42      |
| 59) 2-Hexanone                | 9.378  | 43    | 43009    | 31.860    | ug/l   | # 24      |
| 74) N-amyl acetate            | 10.817 | 43    | 575      | 0.419     | ug/l   | # 48      |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 55902    | 41.256    | ug/l   | # 37      |
| 80) 1,3,5-Trimethylbenzene    | 11.451 | 105   | 744      | 0.205     | ug/l   | 98        |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 55902    | 133.046   | ug/l   | # 13      |
| -----                         |        |       |          |           |        |           |

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

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Sample : PB147495ZHE#03  
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ALS Vial : 56 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB147495ZHE#03

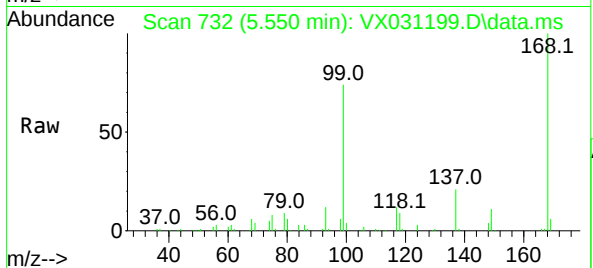
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X090722W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 07 23:22:41 2022  
Response via : Initial Calibration



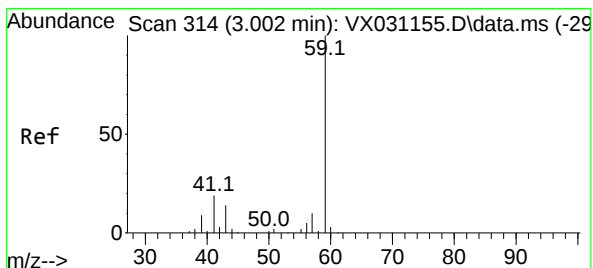
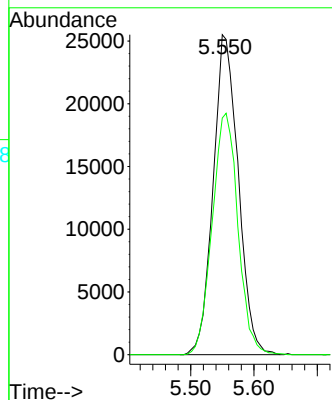
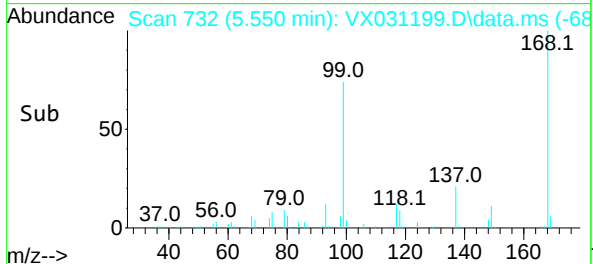


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB147495ZHE#03

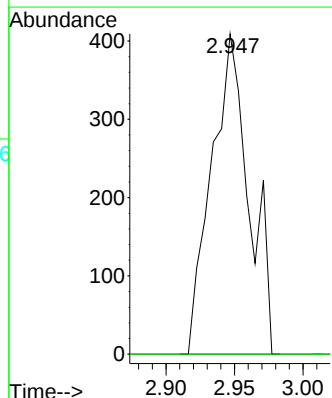
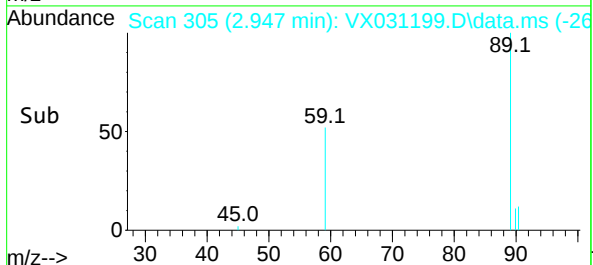
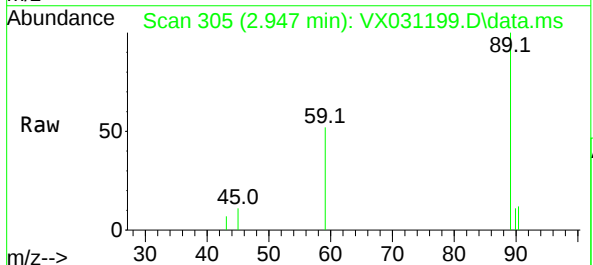


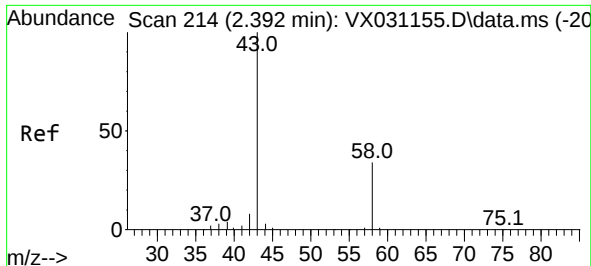
Tgt Ion:168 Resp: 70153  
Ion Ratio Lower Upper  
168 100  
99 74.0 44.0 66.0#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 2.947 min Scan# 305  
Delta R.T. -0.055 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

Tgt Ion: 59 Resp: 778  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#

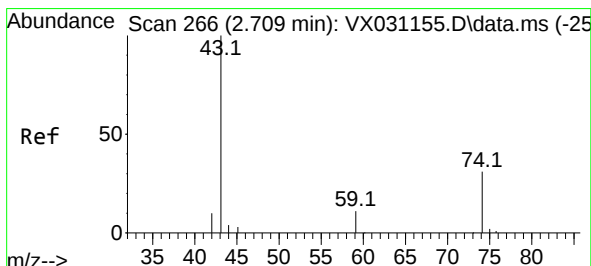
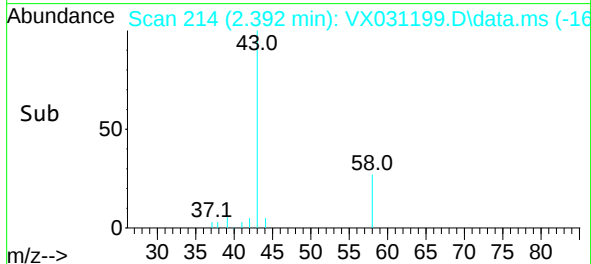
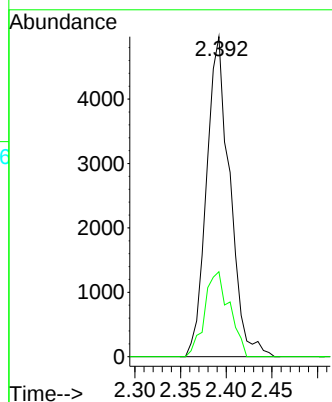
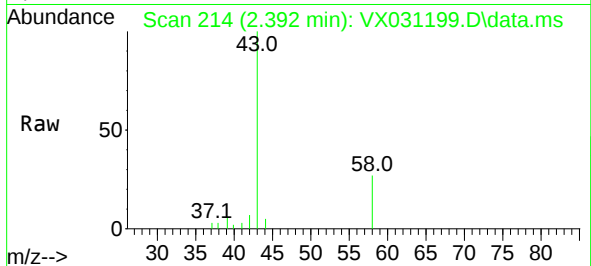




#16  
Acetone  
Concen: 15.344 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. 0.000 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

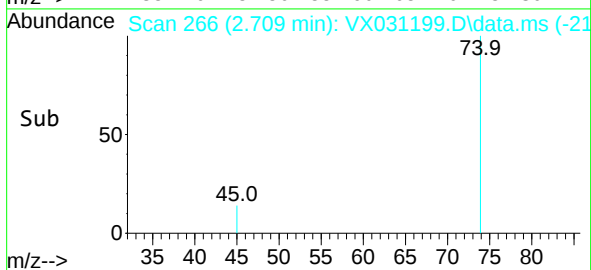
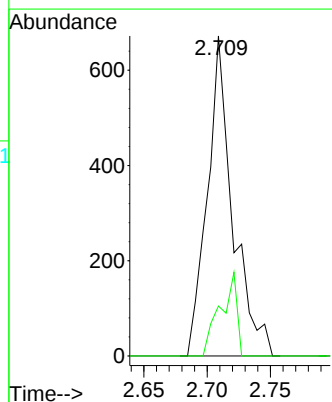
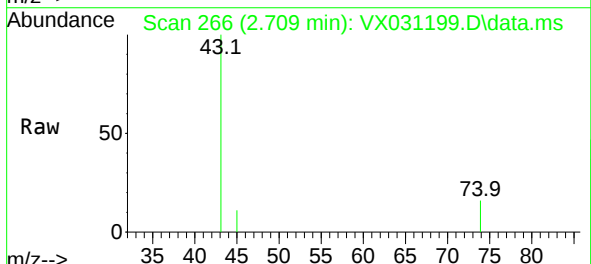
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB147495ZHE#03

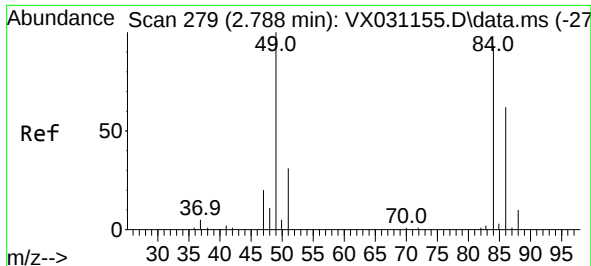
Tgt Ion: 43 Resp: 8824  
Ion Ratio Lower Upper  
43 100  
58 26.5 27.7 41.5#



#18  
Methyl Acetate  
Concen: 0.629 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.000 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

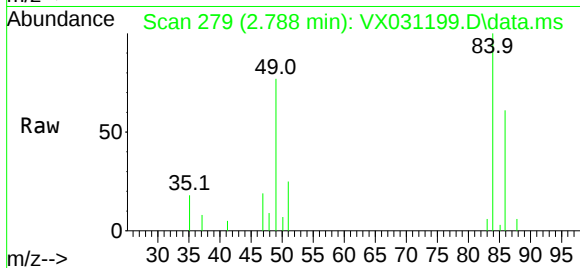
Tgt Ion: 43 Resp: 937  
Ion Ratio Lower Upper  
43 100  
74 17.2 19.4 29.2#



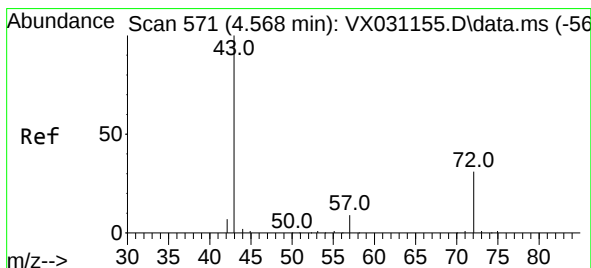
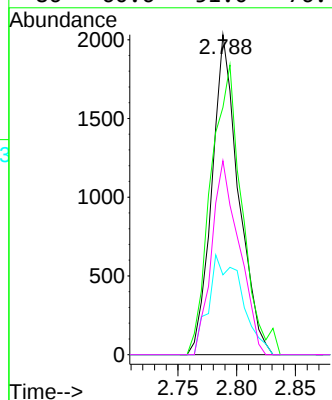


#20  
Methylene Chloride  
Concen: 2.379 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB147495ZHE#03

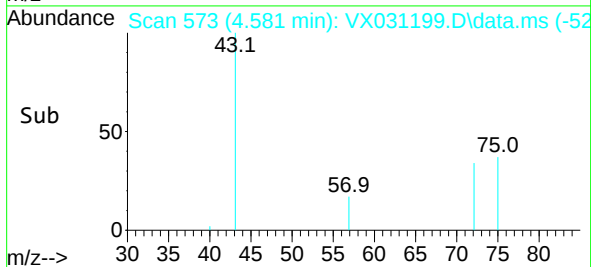
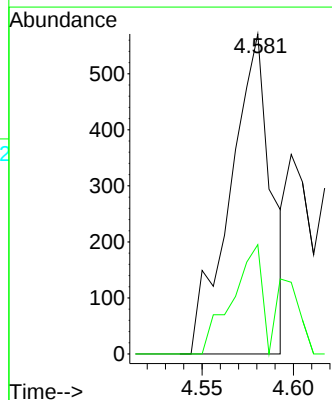
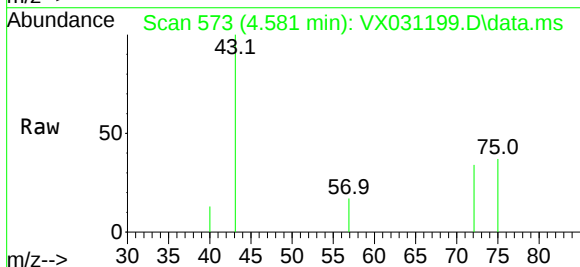


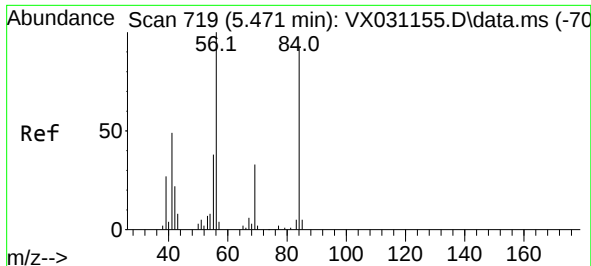
| Tgt Ion: | 84    | Resp: | 3216   |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 77.3  | 93.8  | 140.6# |
| 51       | 25.0  | 29.4  | 44.0#  |
| 86       | 60.6  | 51.0  | 76.4   |



#25  
2-Butanone  
Concen: 1.051 ug/l  
RT: 4.581 min Scan# 573  
Delta R.T. 0.012 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

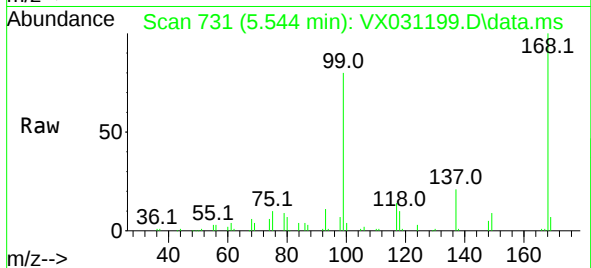
| Tgt Ion: | 43    | Resp: | 895   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 34.2  | 21.7  | 32.5# |



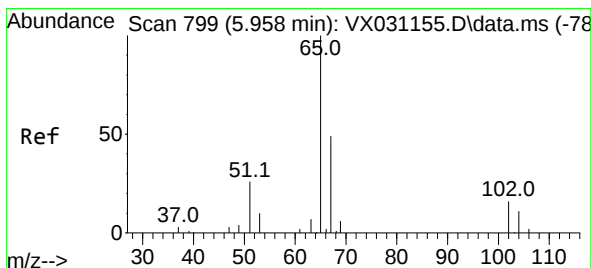
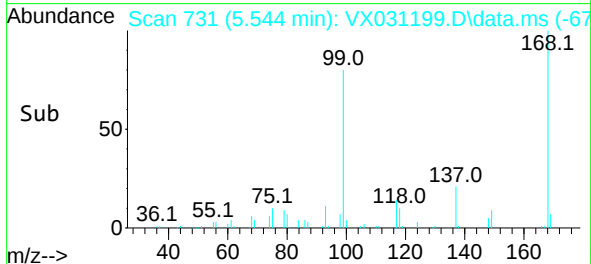
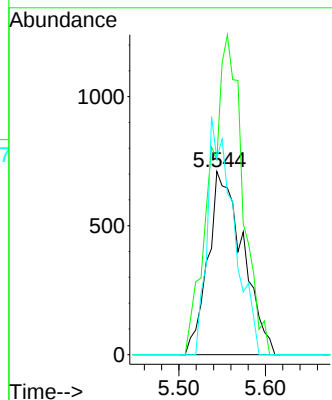


#31  
Cyclohexane  
Concen: 1.073 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB147495ZHE#03

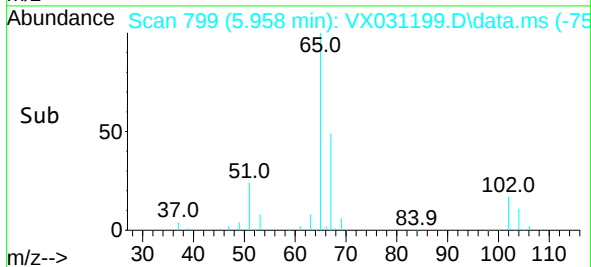
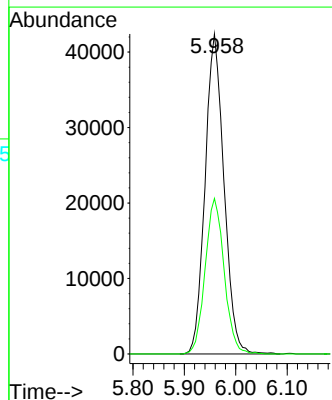
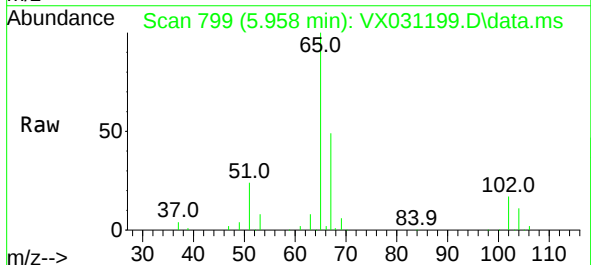


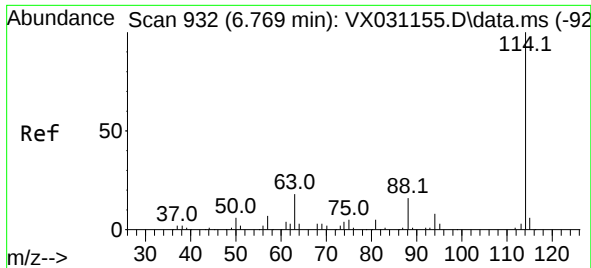
Tgt Ion: 56 Resp: 1992  
Ion Ratio Lower Upper  
56 100  
69 106.3 25.4 38.0#  
84 107.2 68.9 103.3#



#33  
1,2-Dichloroethane-d4  
Concen: 65.102 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

Tgt Ion: 65 Resp: 108129  
Ion Ratio Lower Upper  
65 100  
67 49.0 0.0 109.6

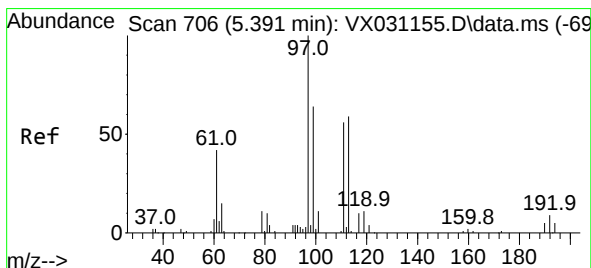
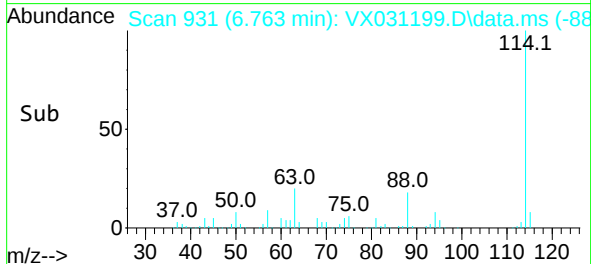
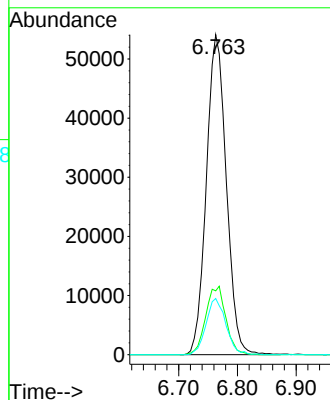
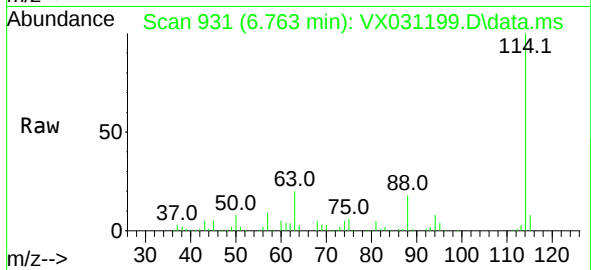




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

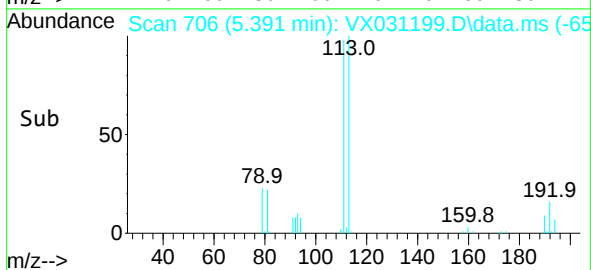
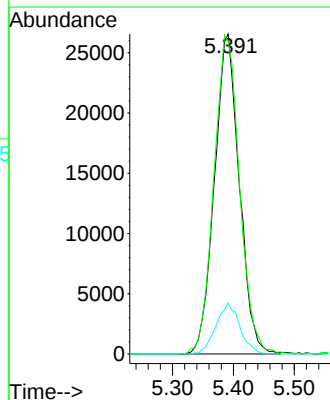
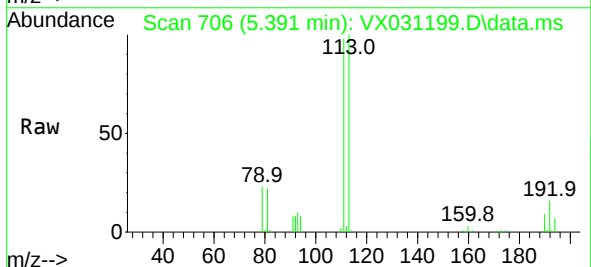
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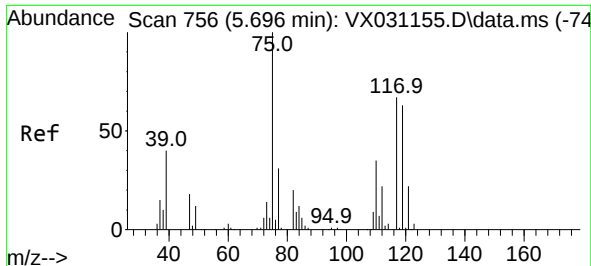
Tgt Ion:114 Resp: 127712  
Ion Ratio Lower Upper  
114 100  
63 20.0 0.0 38.4  
88 17.5 0.0 31.8



#35  
Dibromofluoromethane  
Concen: 53.941 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

Tgt Ion:113 Resp: 75070  
Ion Ratio Lower Upper  
113 100  
111 103.2 83.2 124.8  
192 15.3 14.8 22.2

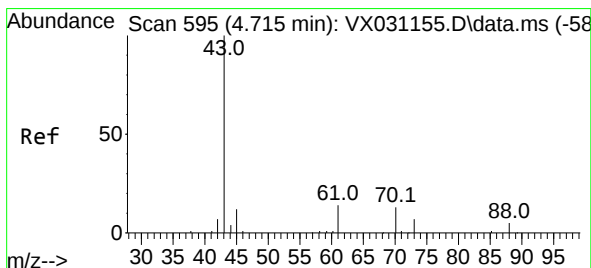
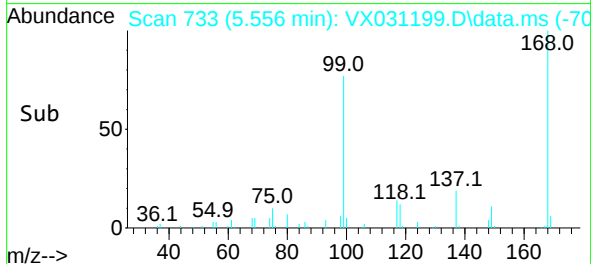
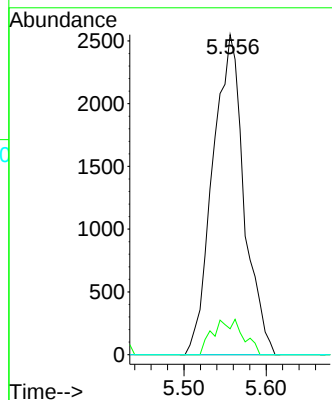
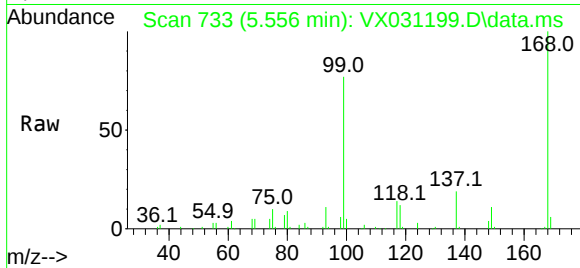




#36  
1,1-Dichloropropene  
Concen: 3.236 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.140 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

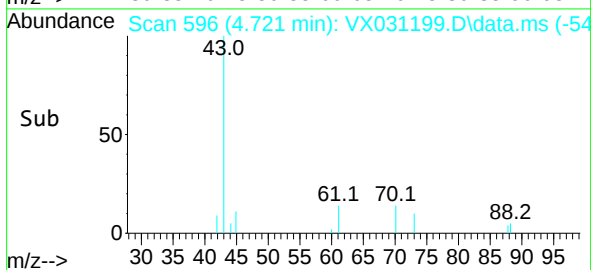
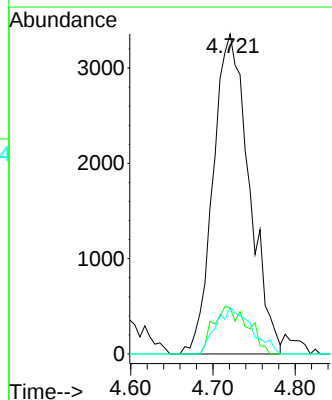
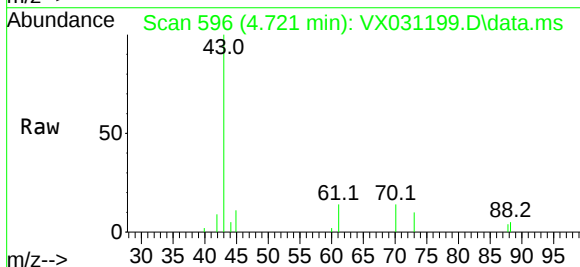
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB147495ZHE#03

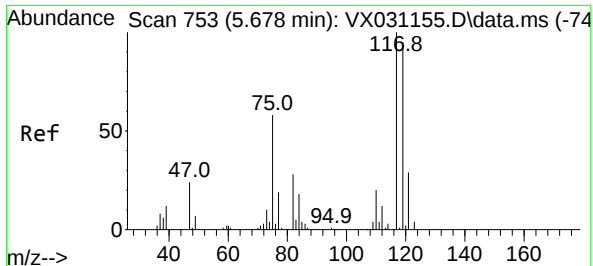
Tgt Ion: 75 Resp: 6744  
Ion Ratio Lower Upper  
75 100  
110 10.6 19.3 57.9#  
77 0.0 24.4 36.6#



#37  
Ethyl Acetate  
Concen: 5.529 ug/l  
RT: 4.721 min Scan# 596  
Delta R.T. 0.006 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

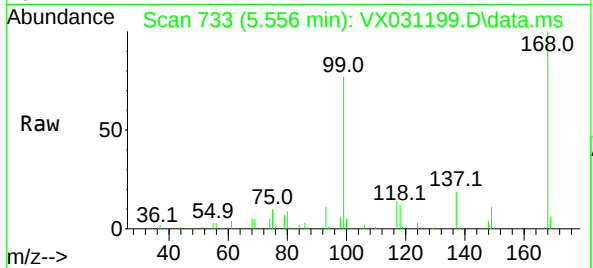
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Ion Ratio Lower Upper  
43 100  
61 14.2 11.7 17.5  
70 14.4 9.3 13.9#



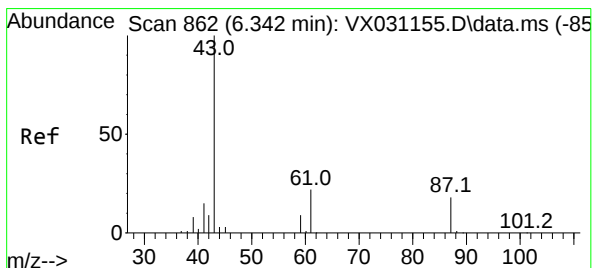
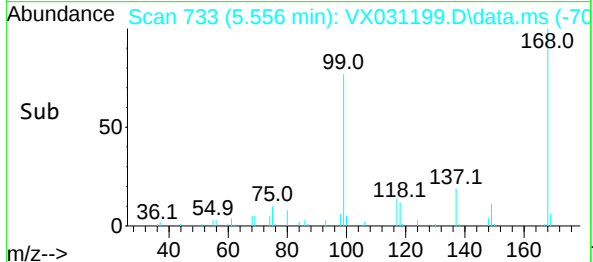
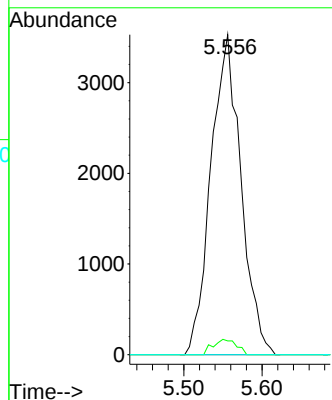


#38  
Carbon Tetrachloride  
Concen: 4.290 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB147495ZHE#03

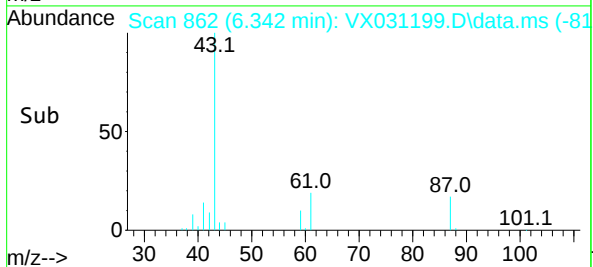
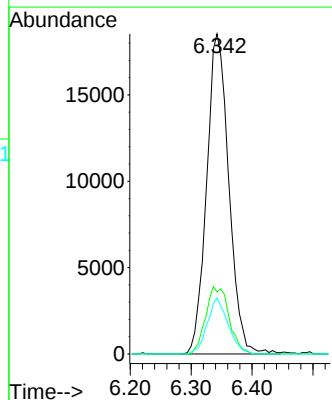
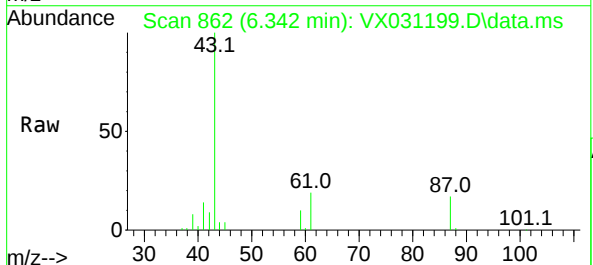


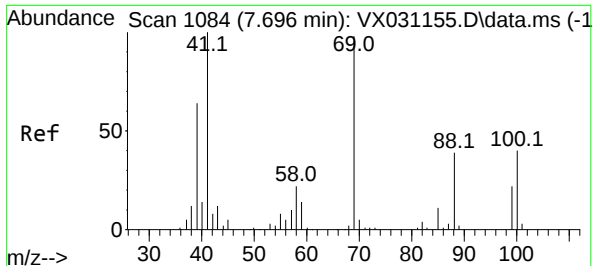
Tgt Ion:117 Resp: 9407  
Ion Ratio Lower Upper  
117 100  
119 4.3 74.1 111.1#  
121 0.0 25.8 38.8#



#43  
Isopropyl Acetate  
Concen: 16.108 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.000 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

Tgt Ion: 43 Resp: 46957  
Ion Ratio Lower Upper  
43 100  
61 22.0 16.5 24.7  
87 16.4 11.1 16.7





#48

Methyl methacrylate

Concen: 31.149 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.104 min

Lab File: VX031199.D

Acq: 08 Sep 2022 08:25

Instrument :

MSVOA\_X

ClientSampleId :

PB147495ZHE#03

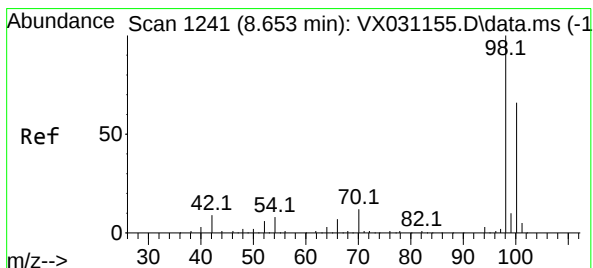
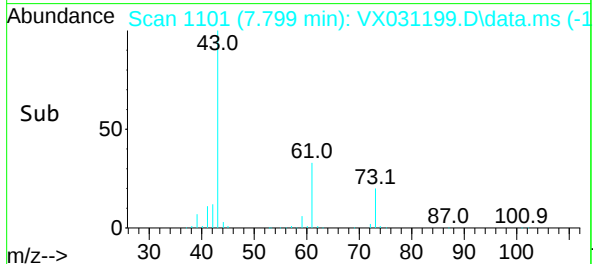
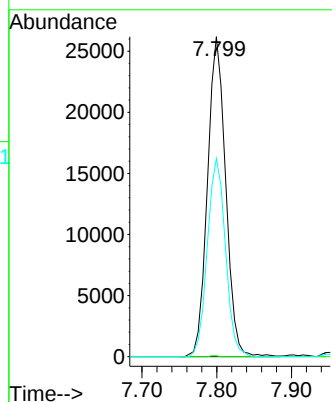
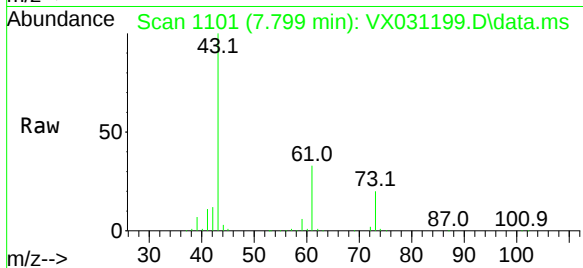
Tgt Ion: 41 Resp: 44218

Ion Ratio Lower Upper

41 100

69 0.1 68.8 103.2#

39 61.7 44.6 66.8



#50

Toluene-d8

Concen: 50.243 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX031199.D

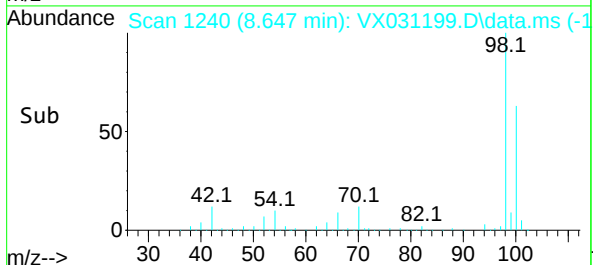
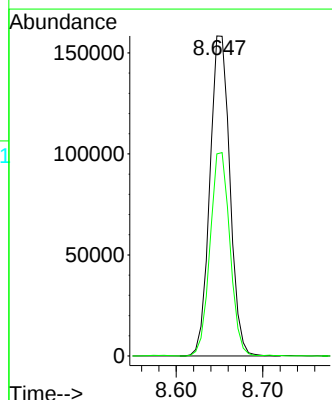
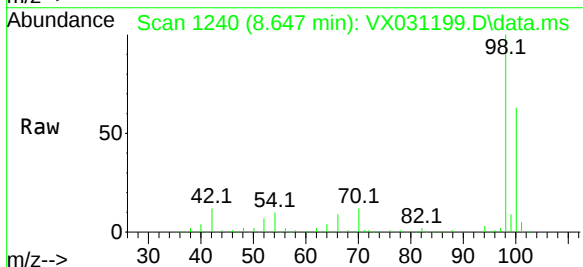
Acq: 08 Sep 2022 08:25

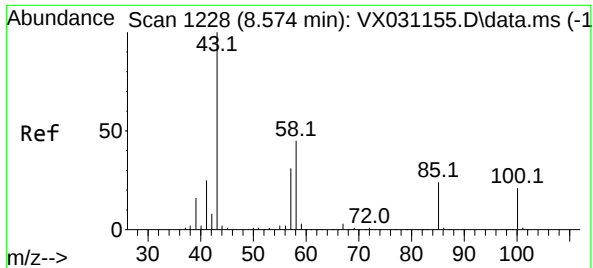
Tgt Ion: 98 Resp: 254049

Ion Ratio Lower Upper

98 100

100 63.1 52.3 78.5

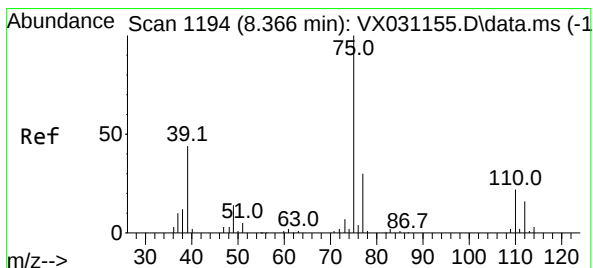
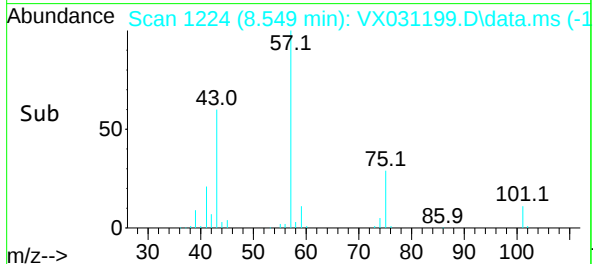
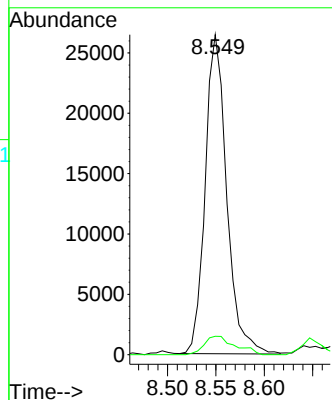
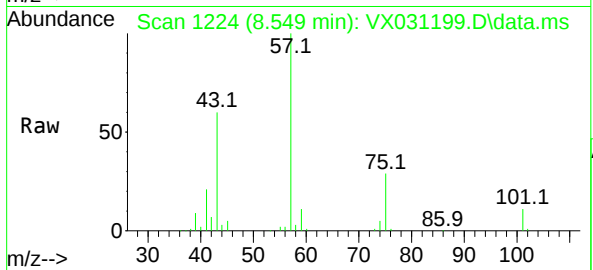




#51  
4-Methyl-2-Pentanone  
Concen: 22.978 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

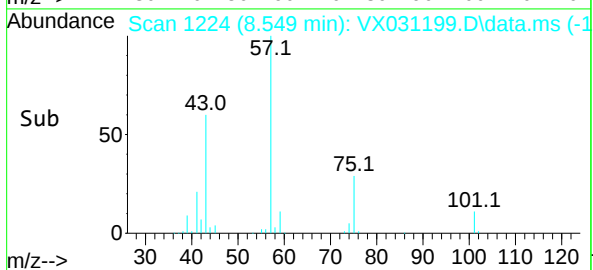
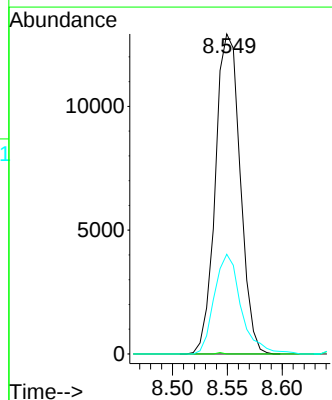
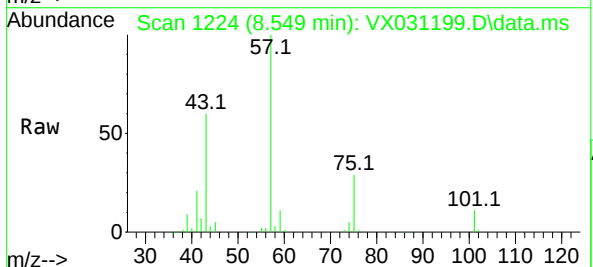
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB147495ZHE#03

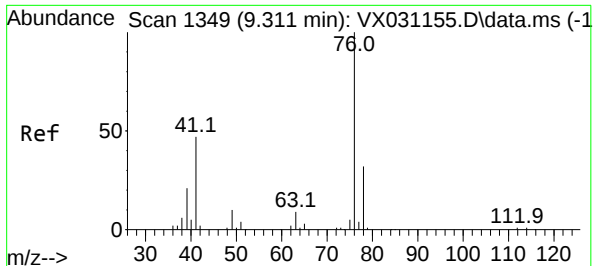
Tgt Ion: 43 Resp: 41017  
Ion Ratio Lower Upper  
43 100  
58 8.3 31.4 47.2#



#54  
cis-1,3-Dichloropropene  
Concen: 8.474 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. 0.183 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

Tgt Ion: 75 Resp: 20340  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.0 37.4#  
39 31.1 37.5 56.3#





#57

1,3-Dichloropropane

Concen: 1.049 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.171 min

Lab File: VX031199.D

Acq: 08 Sep 2022 08:25

Instrument :

MSVOA\_X

ClientSampleId :

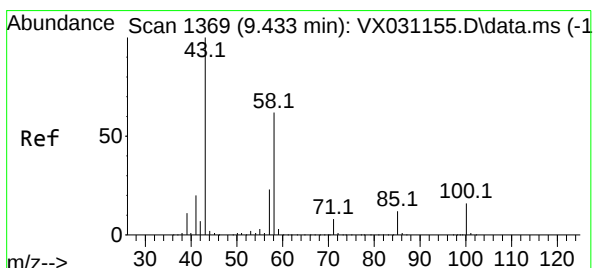
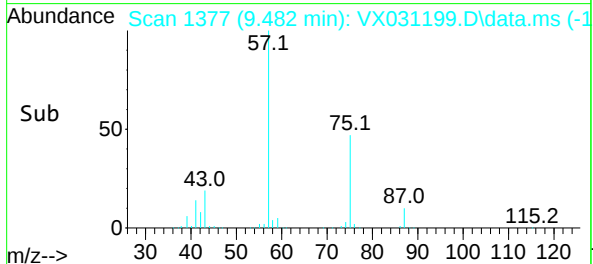
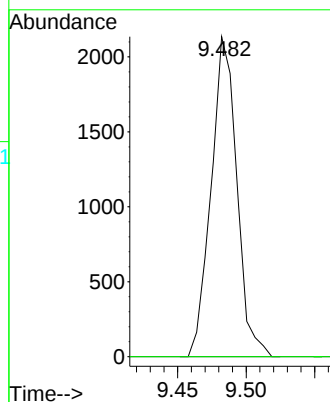
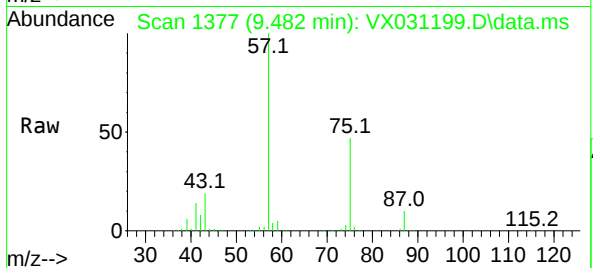
PB147495ZHE#03

Tgt Ion: 76 Resp: 2782

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#



#59

2-Hexanone

Concen: 31.860 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.055 min

Lab File: VX031199.D

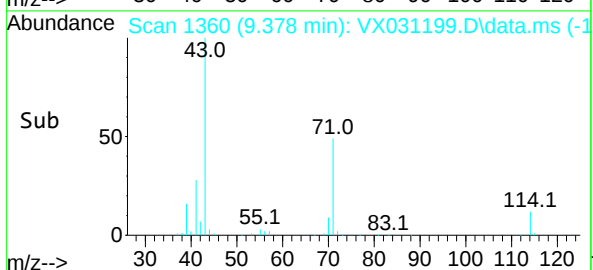
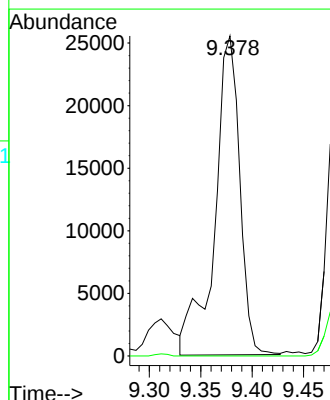
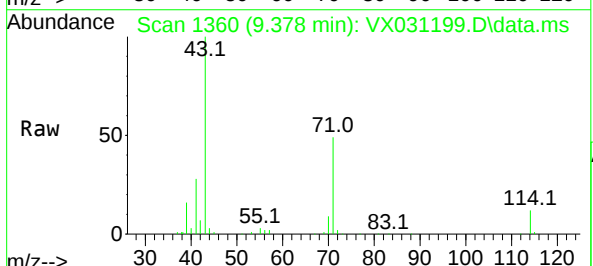
Acq: 08 Sep 2022 08:25

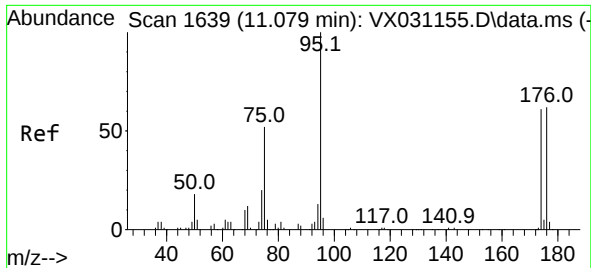
Tgt Ion: 43 Resp: 43009

Ion Ratio Lower Upper

43 100

58 0.0 27.6 82.8#

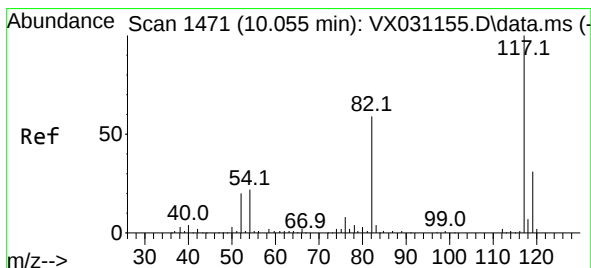
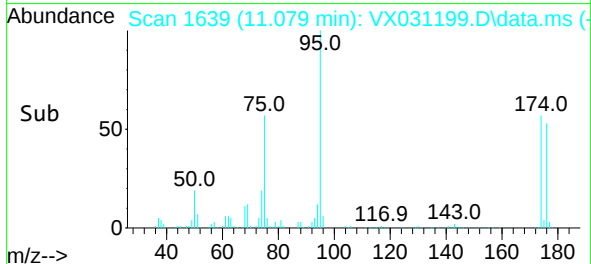
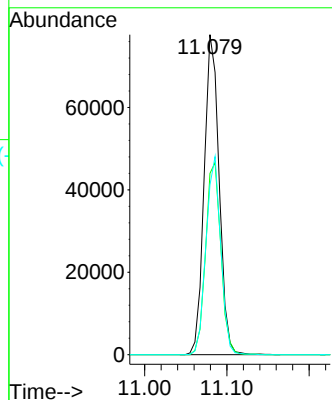
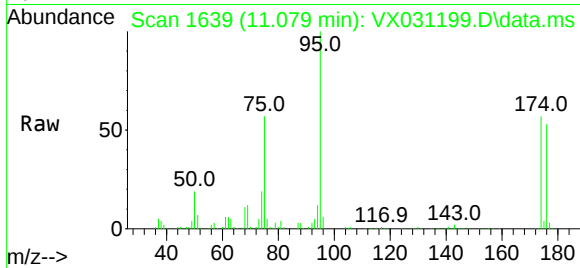




#62  
4-Bromofluorobenzene  
Concen: 53.046 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

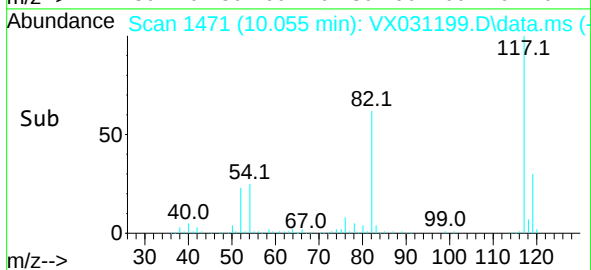
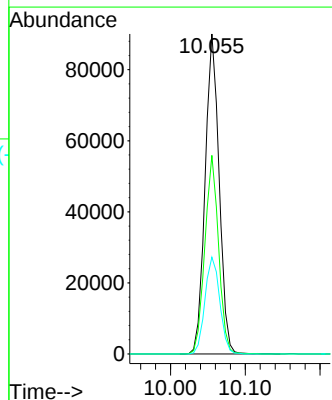
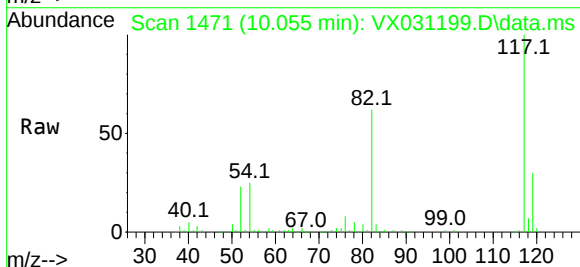
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB147495ZHE#03

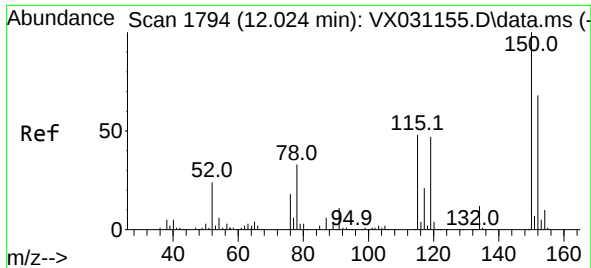
Tgt Ion: 95 Resp: 98295  
Ion Ratio Lower Upper  
95 100  
174 61.1 0.0 149.0  
176 60.8 0.0 146.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

Tgt Ion: 117 Resp: 117093  
Ion Ratio Lower Upper  
117 100  
82 62.1 42.7 64.1  
119 30.3 25.4 38.2

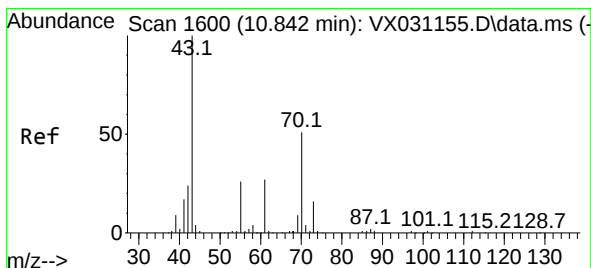
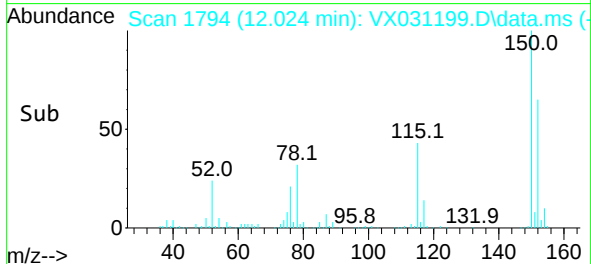
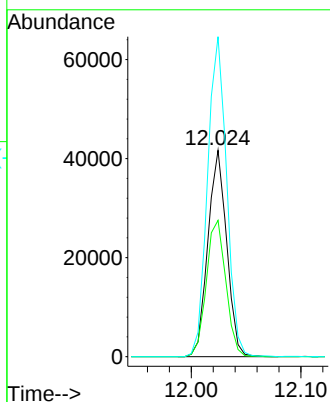
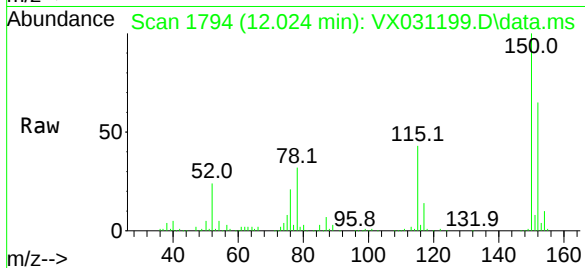




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

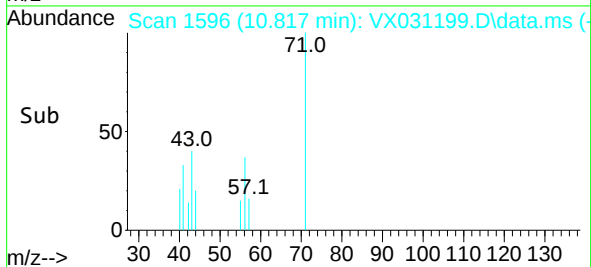
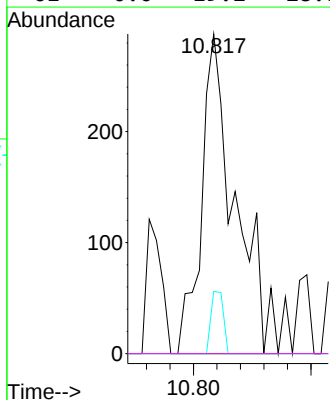
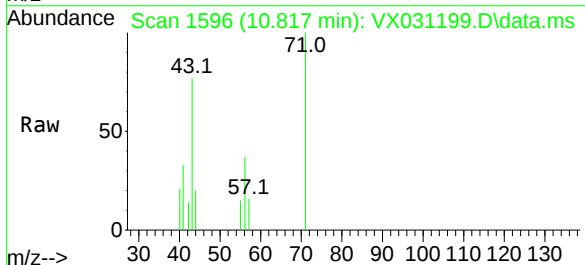
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB147495ZHE#03

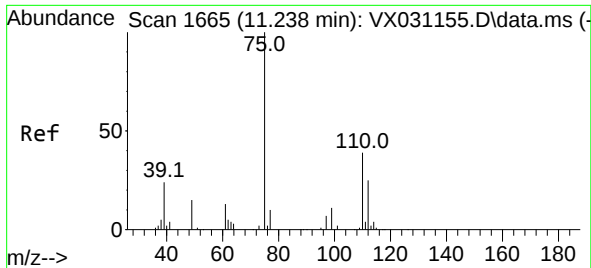
Tgt Ion:152 Resp: 49649  
Ion Ratio Lower Upper  
152 100  
115 68.5 40.5 121.5  
150 157.3 0.0 347.0



#74  
N-ethyl acetate  
Concen: 0.419 ug/l  
RT: 10.817 min Scan# 1596  
Delta R.T. -0.024 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

Tgt Ion: 43 Resp: 575  
Ion Ratio Lower Upper  
43 100  
70 0.0 32.3 48.5#  
55 7.1 18.4 27.6#  
61 0.0 19.2 28.8#

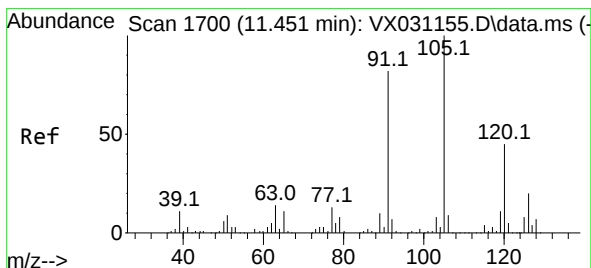
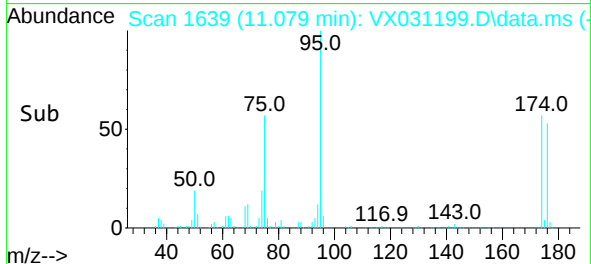
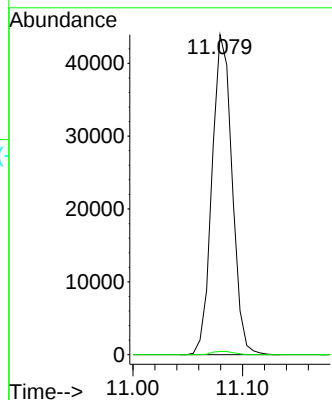
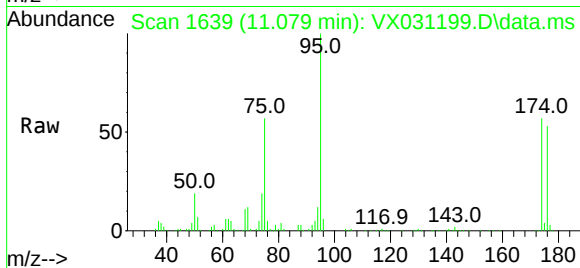




#76  
1,2,3-Trichloropropane  
Concen: 41.256 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

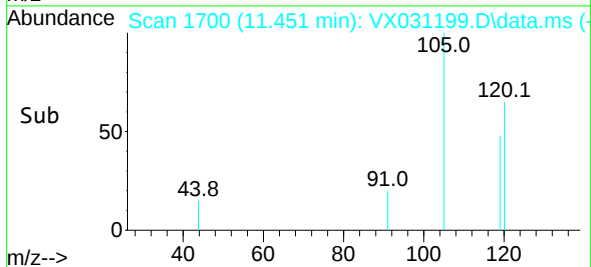
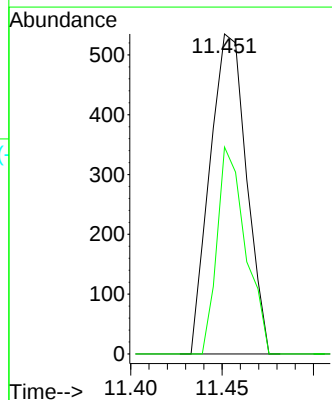
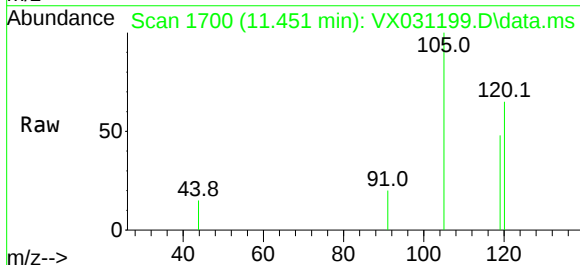
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB147495ZHE#03

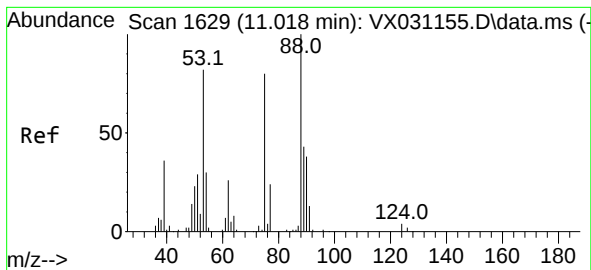
Tgt Ion: 75 Resp: 55902  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.8 59.3#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.205 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX031199.D  
Acq: 08 Sep 2022 08:25

Tgt Ion: 105 Resp: 744  
Ion Ratio Lower Upper  
105 100  
120 50.4 24.4 73.2





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 133.046 ug/l  
 RT: 11.079 min Scan# 10  
 Delta R.T. 0.061 min  
 Lab File: VX031199.D  
 Acq: 08 Sep 2022 08:25

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB147495ZHE#03

Tgt Ion: 75 Resp: 55902  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 74.2 111.4#  
 89 0.1 34.8 52.2#

