

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX110922\  
 Data File : VX032707.D  
 Acq On : 10 Nov 2022 05:18  
 Operator : JC/MD  
 Sample : N5506-08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-8

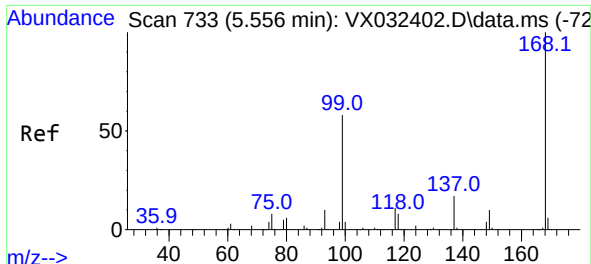
Quant Time: Nov 10 05:44:59 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X102622W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 27 08:28:06 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 129434              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 217654              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 205182              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 94666               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 90332               | 50.228 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 100.460% |        |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 70846               | 45.632 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 91.260%  |        |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 271742              | 50.336 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 100.680% |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 106456              | 50.482 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 100.960% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 3) Chloromethane              | 1.319          | 50   | 570                 | 0.451  | ug/l # | 43       |
| 11) Tert butyl alcohol        | 2.941          | 59   | 3598                | 13.745 | ug/l # | 72       |
| 16) Acetone                   | 2.392          | 43   | 8468                | 12.955 | ug/l   | 100      |
| 18) Methyl Acetate            | 2.709          | 43   | 1590                | 0.748  | ug/l # | 87       |
| 20) Methylene Chloride        | 2.788          | 84   | 5391                | 3.597  | ug/l   | 90       |
| 25) 2-Butanone                | 4.581          | 43   | 1184                | 1.169  | ug/l # | 76       |
| 31) Cyclohexane               | 5.556          | 56   | 2978                | 1.366  | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 10089               | 4.667  | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.715          | 43   | 15470               | 6.874  | ug/l   | 98       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 13571               | 5.659  | ug/l # | 14       |
| 41) Methacrylonitrile         | 5.050          | 41   | 236                 | 0.206  | ug/l # | 21       |
| 43) Isopropyl Acetate         | 6.336          | 43   | 71062               | 20.566 | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.799          | 41   | 67921               | 38.060 | ug/l # | 44       |
| 49) 1,4-Dioxane               | 7.793          | 88   | 81                  | 2.382  | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 60092               | 27.610 | ug/l # | 48       |
| 53) t-1,3-Dichloropropene     | 8.958          | 75   | 491                 | 0.211  | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 25477               | 10.227 | ug/l # | 62       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 3354                | 1.235  | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482          | 43   | 49637               | 30.736 | ug/l # | 52       |
| 74) N-amyl acetate            | 10.640         | 43   | 17817               | 6.286  | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 57642               | 27.369 | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 57642               | 87.090 | ug/l # | 6        |
| -----                         |                |      |                     |        |        |          |

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

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Response via : Initial Calibration

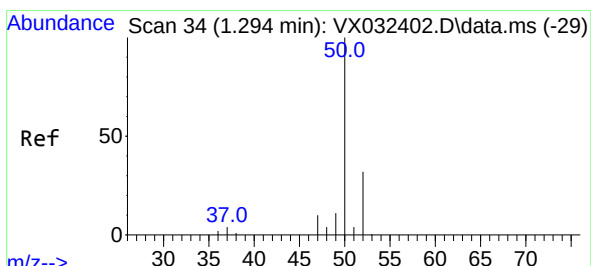
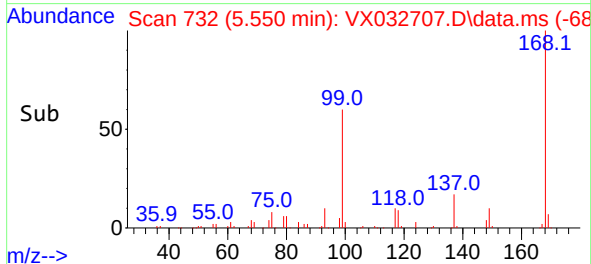
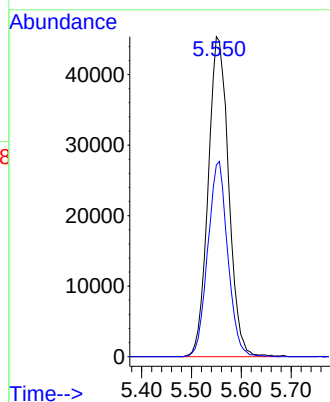
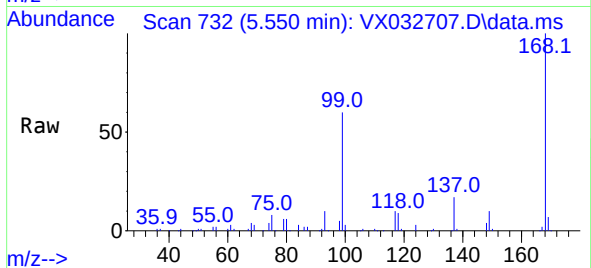




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

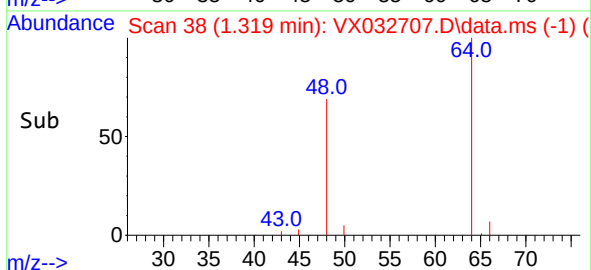
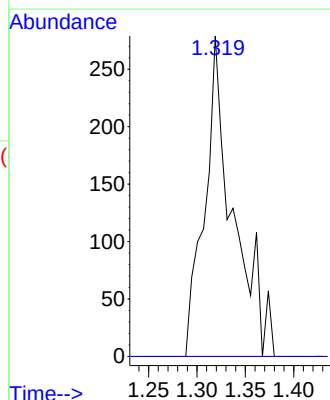
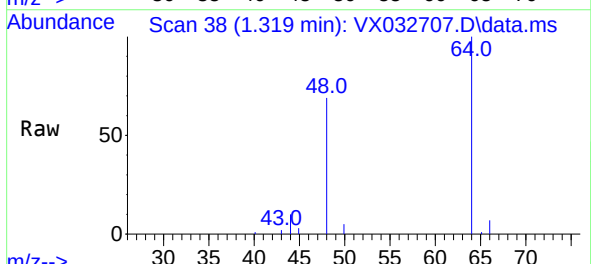
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-8

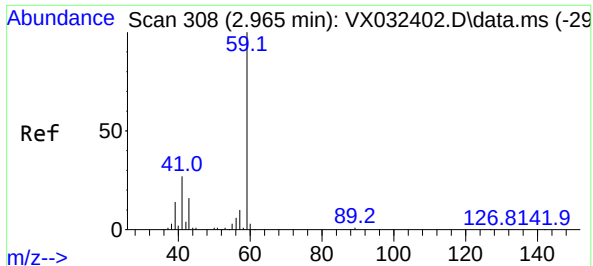
Tgt Ion:168 Resp: 129434  
Ion Ratio Lower Upper  
168 100  
99 59.9 46.1 69.1



#3  
Chloromethane  
Concen: 0.451 ug/l  
RT: 1.319 min Scan# 38  
Delta R.T. 0.025 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

Tgt Ion: 50 Resp: 570  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.4 38.2#

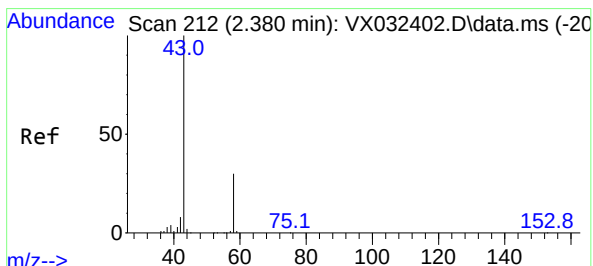
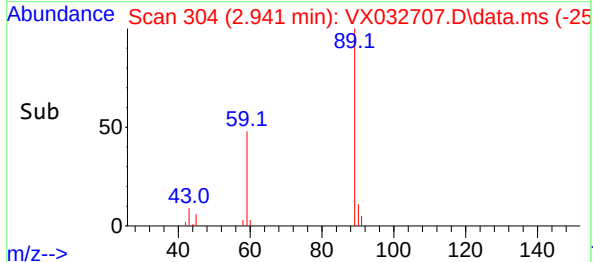
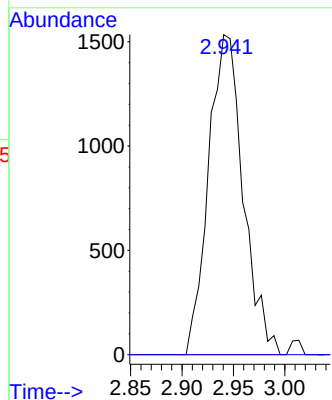
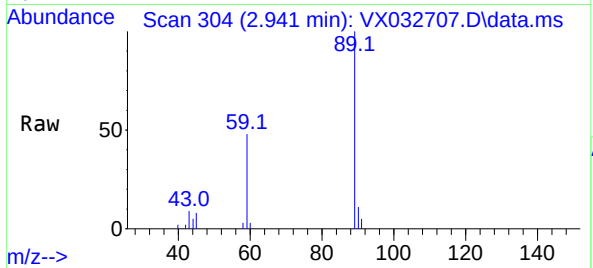




#11  
Tert butyl alcohol  
Concen: 13.745 ug/l  
RT: 2.941 min Scan# 308  
Delta R.T. -0.024 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

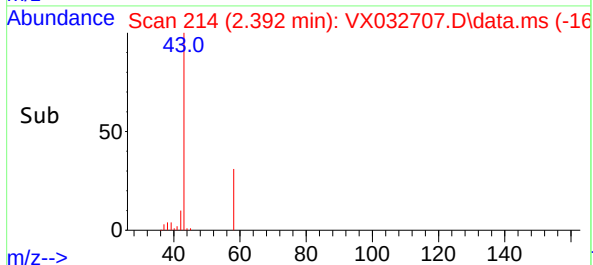
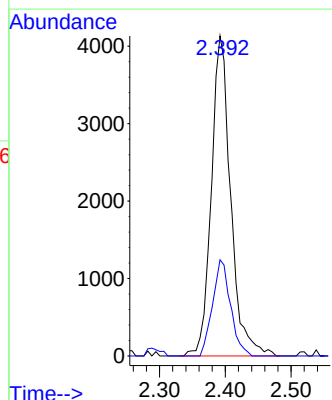
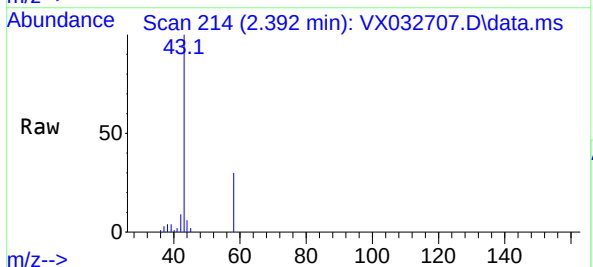
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-8

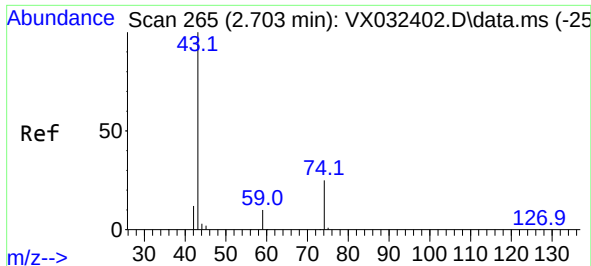
Tgt Ion: 59 Resp: 3598  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



#16  
Acetone  
Concen: 12.955 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. 0.012 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

Tgt Ion: 43 Resp: 8468  
Ion Ratio Lower Upper  
43 100  
58 30.1 23.8 35.8





#18

Methyl Acetate

Concen: 0.748 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

Instrument :

MSVOA\_X

ClientSampleId :

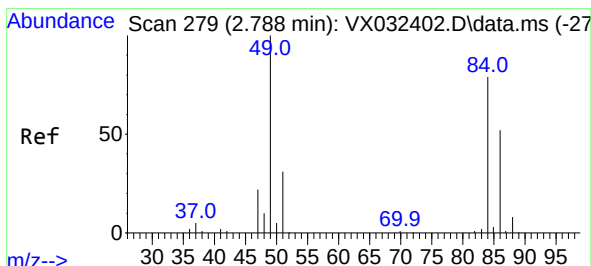
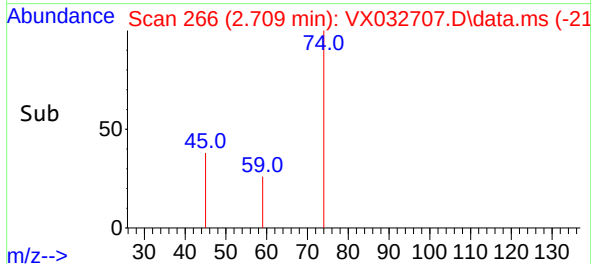
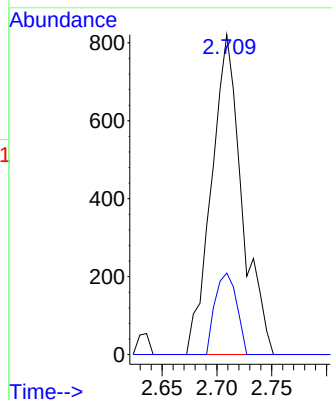
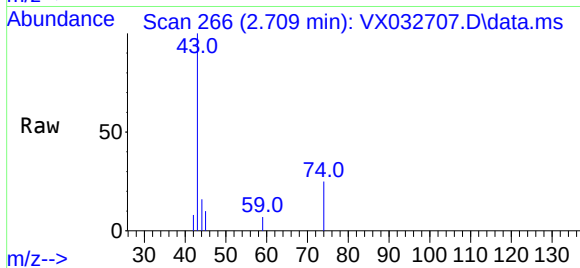
TP-8

Tgt Ion: 43 Resp: 1590

Ion Ratio Lower Upper

43 100

74 18.0 19.4 29.0#



#20

Methylene Chloride

Concen: 3.597 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

Tgt Ion: 84 Resp: 5391

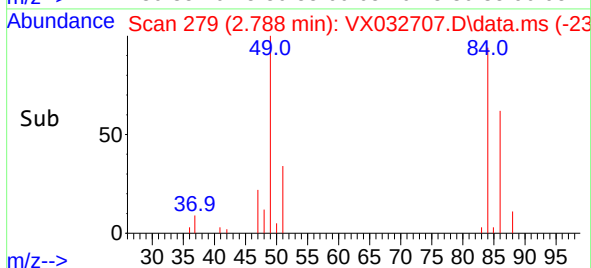
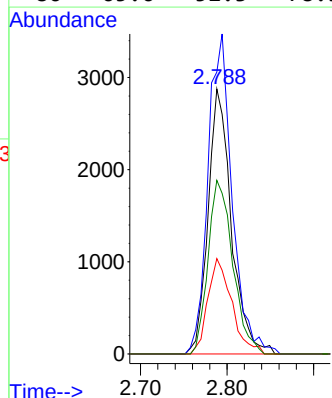
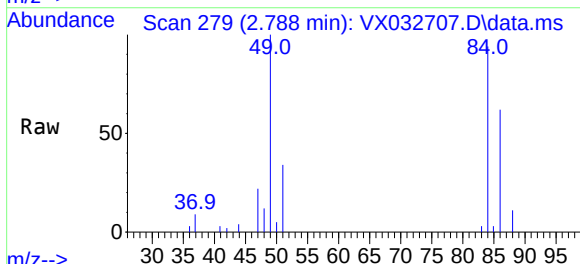
Ion Ratio Lower Upper

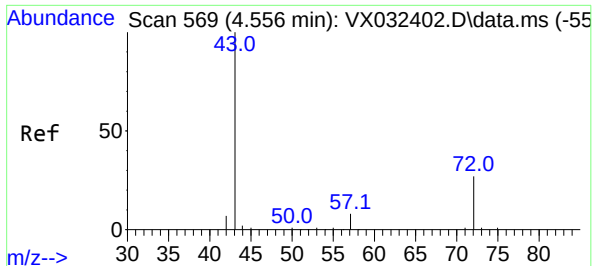
84 100

49 106.4 101.0 151.6

51 36.0 31.1 46.7

86 65.6 52.3 78.5





#25

2-Butanone

Concen: 1.169 ug/l

RT: 4.581 min Scan# 51

Delta R.T. 0.025 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

Instrument :

MSVOA\_X

ClientSampleId :

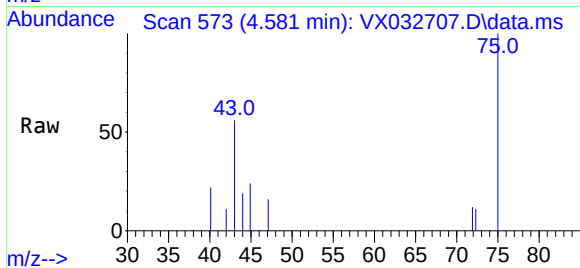
TP-8

Tgt Ion: 43 Resp: 1184

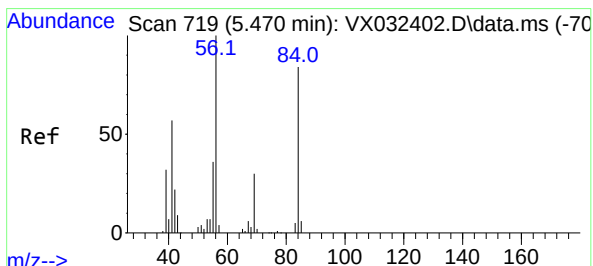
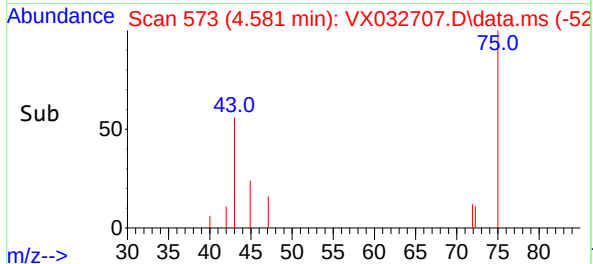
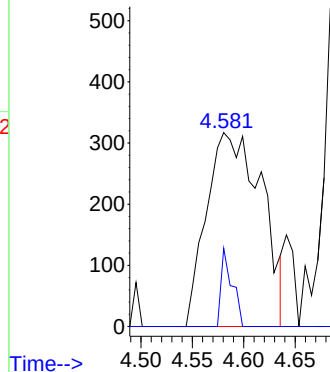
Ion Ratio Lower Upper

43 100

72 40.4 22.2 33.2#



Abundance



#31

Cyclohexane

Concen: 1.366 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.085 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

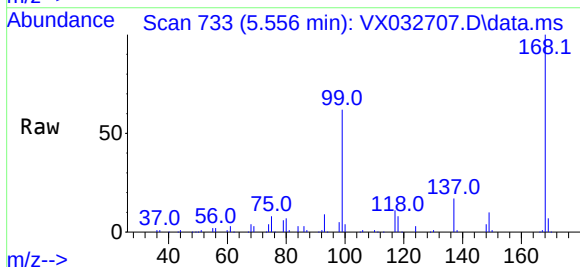
Tgt Ion: 56 Resp: 2978

Ion Ratio Lower Upper

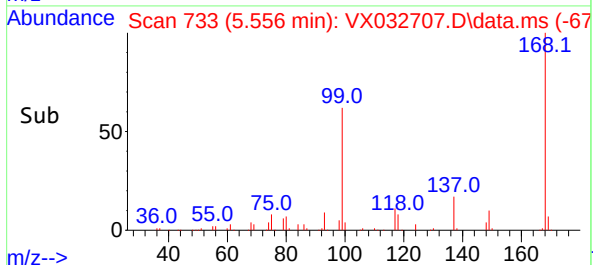
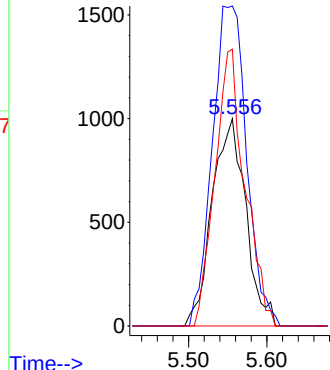
56 100

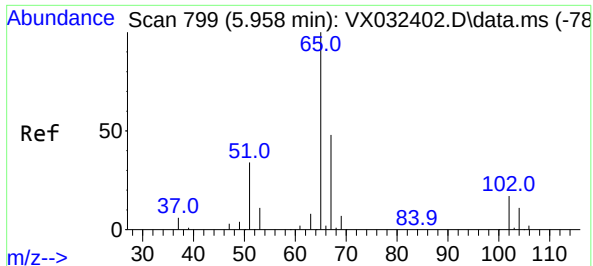
69 154.5 24.1 36.1#

84 133.6 66.9 100.3#



Abundance





#33

1,2-Dichloroethane-d4

Concen: 50.228 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

Instrument :

MSVOA\_X

ClientSampleId :

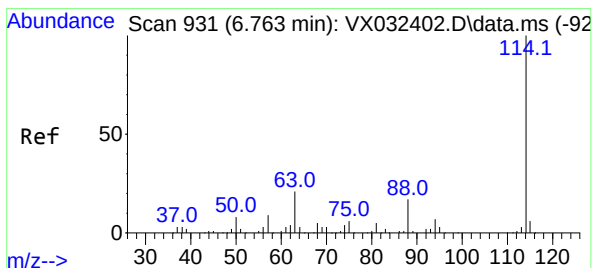
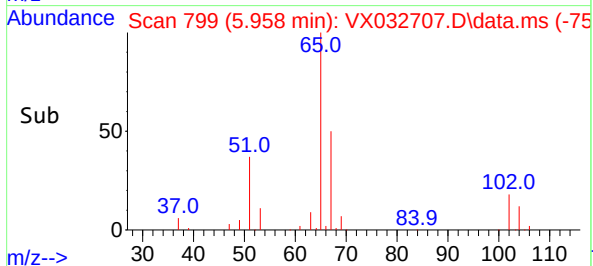
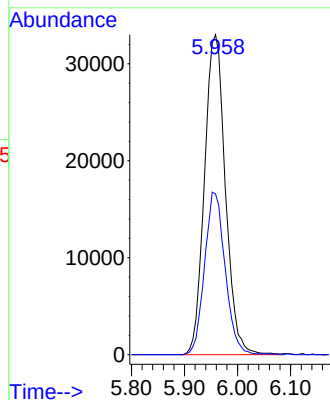
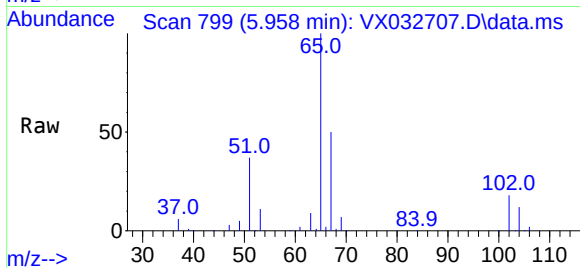
TP-8

Tgt Ion: 65 Resp: 90332

Ion Ratio Lower Upper

65 100

67 49.9 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

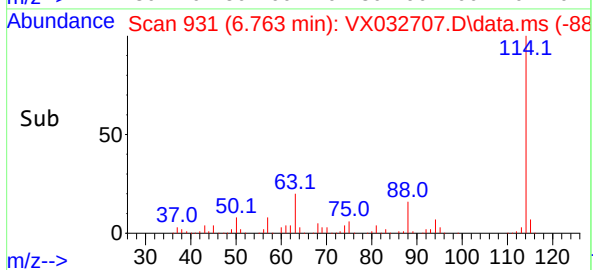
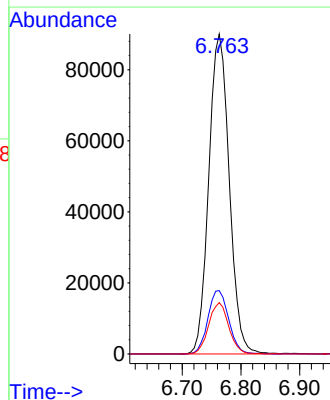
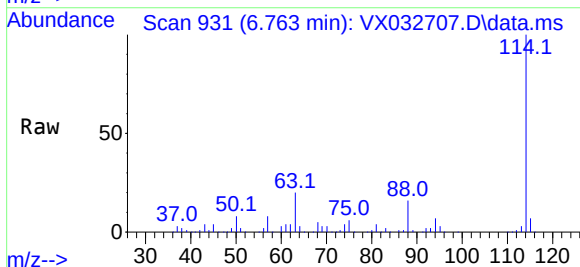
Tgt Ion:114 Resp: 217654

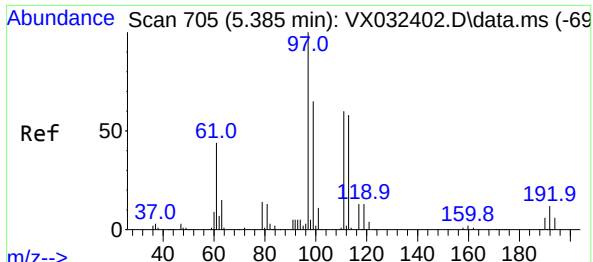
Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.6

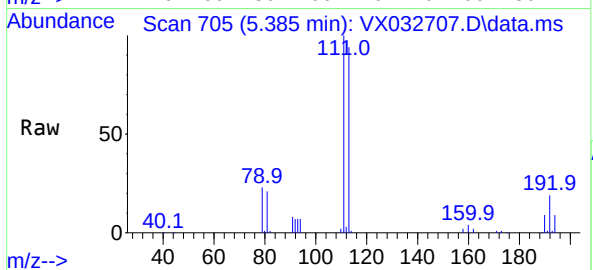
88 16.0 0.0 33.4



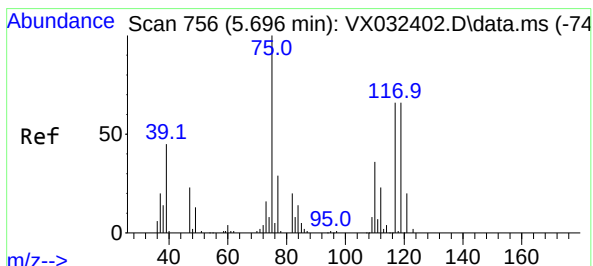
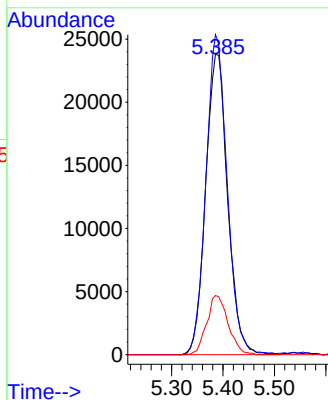
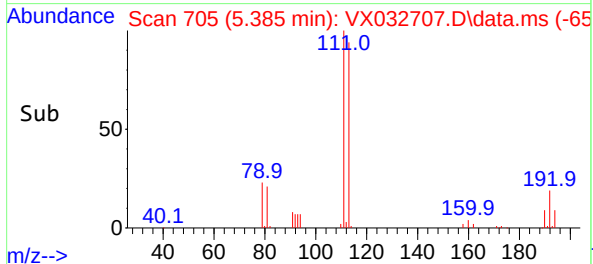


#35  
Dibromofluoromethane  
Concen: 45.632 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

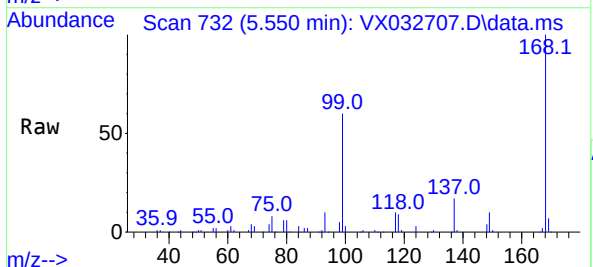
Instrument :  
MSVOA\_X  
ClientSampleId :  
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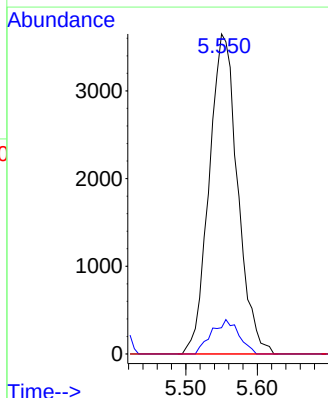
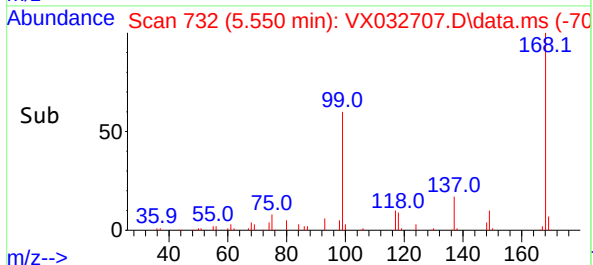
Tgt Ion:113 Resp: 70846  
Ion Ratio Lower Upper  
113 100  
111 103.0 82.4 123.6  
192 19.1 15.4 23.2



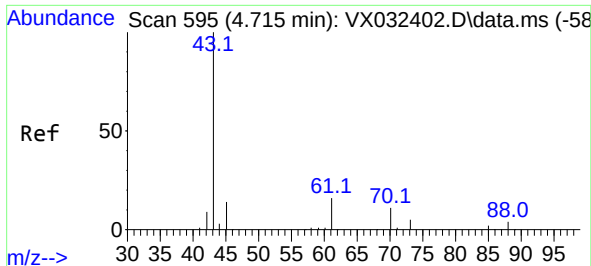
#36  
1,1-Dichloropropene  
Concen: 4.667 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.146 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18



Tgt Ion: 75 Resp: 10089  
Ion Ratio Lower Upper  
75 100  
110 10.3 18.4 55.2#  
77 0.0 24.5 36.7#







#37

Ethyl Acetate

Concen: 6.874 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

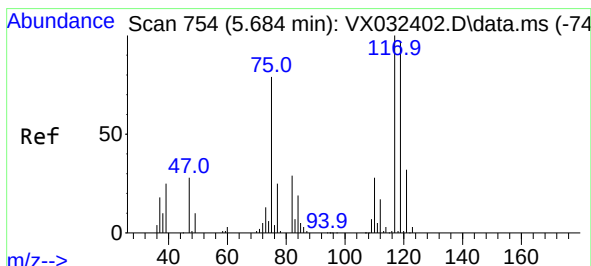
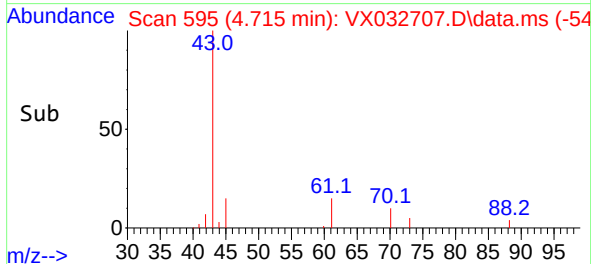
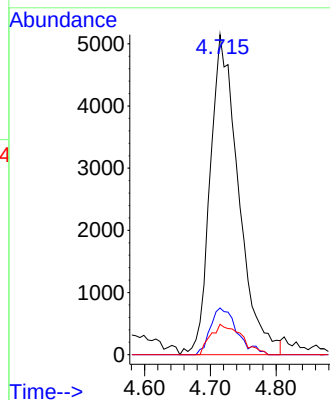
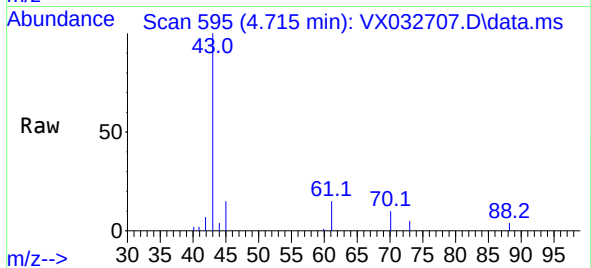
Instrument :

MSVOA\_X

ClientSampleId :

TP-8

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 15470 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 13.8  | 11.5  | 17.3  |
| 70       | 10.3  | 9.1   | 13.7  |



#38

Carbon Tetrachloride

Concen: 5.659 ug/l

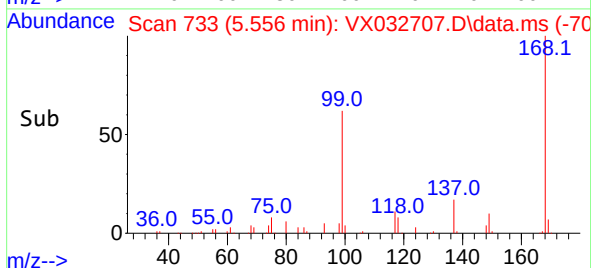
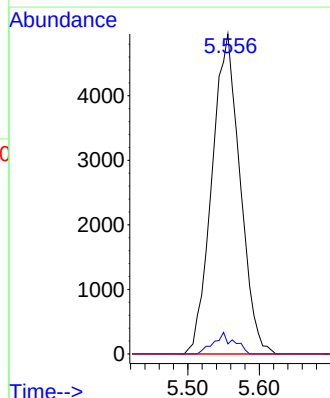
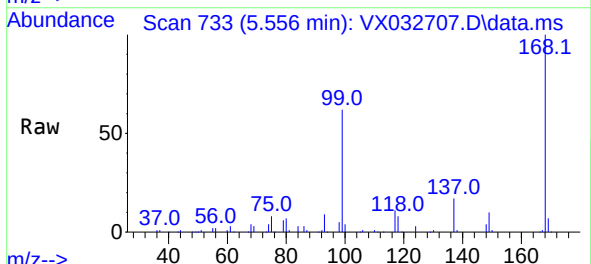
RT: 5.556 min Scan# 733

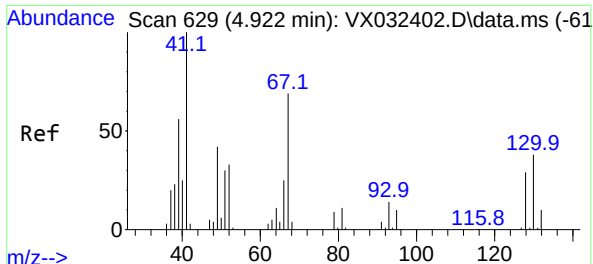
Delta R.T. -0.128 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 13571  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 3.1   | 77.2  | 115.8# |
| 121      | 0.0   | 25.8  | 38.6#  |



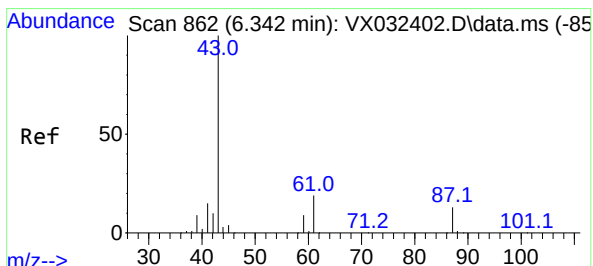
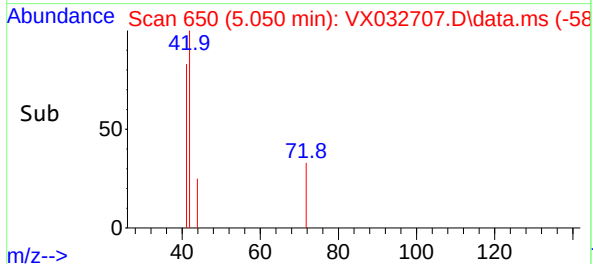
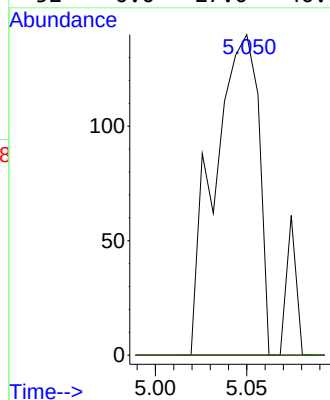
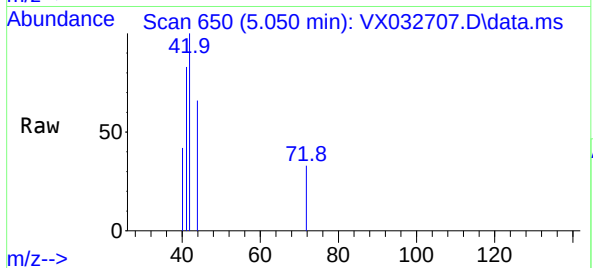


#41  
Methacrylonitrile  
Concen: 0.206 ug/l  
RT: 5.050 min Scan# 61  
Delta R.T. 0.128 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-8

Tgt Ion: 41 Resp: 236

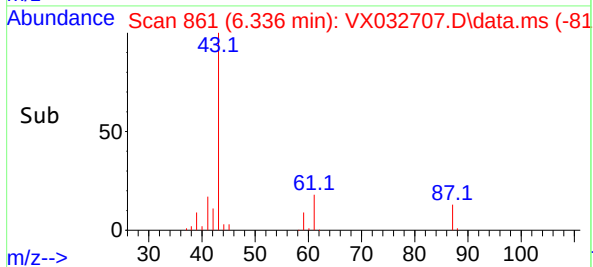
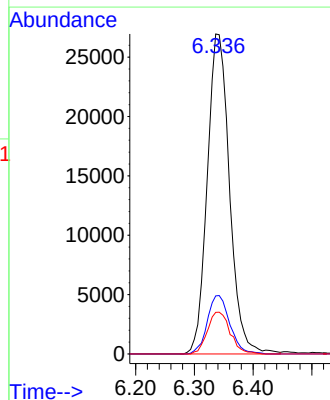
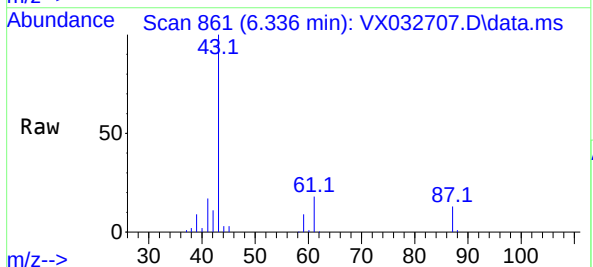
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 41  | 100   |       |       |
| 39  | 0.0   | 47.5  | 71.3# |
| 67  | 0.0   | 60.5  | 90.7# |
| 52  | 0.0   | 27.0  | 40.6# |

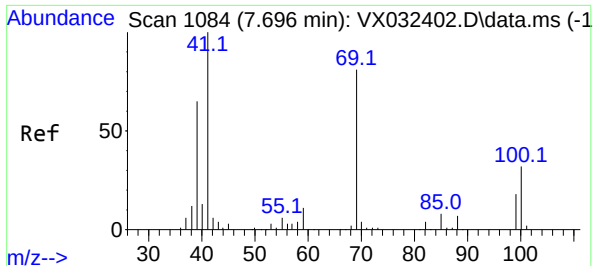


#43  
Isopropyl Acetate  
Concen: 20.566 ug/l  
RT: 6.336 min Scan# 861  
Delta R.T. -0.006 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

Tgt Ion: 43 Resp: 71062

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 61  | 18.4  | 15.4  | 23.0  |
| 87  | 13.3  | 10.8  | 16.2  |





#48

Methyl methacrylate

Concen: 38.060 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.104 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

Instrument :

MSVOA\_X

ClientSampleId :

TP-8

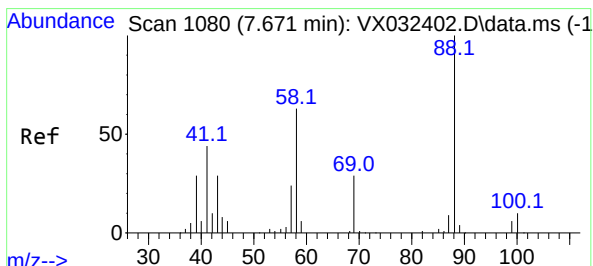
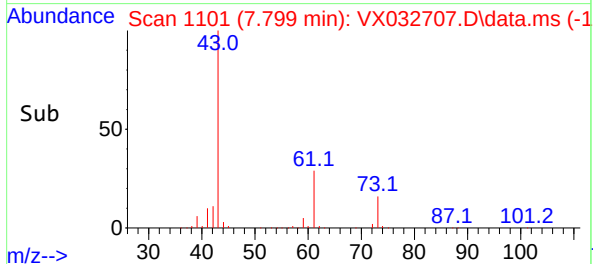
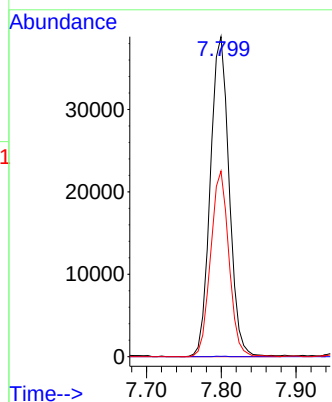
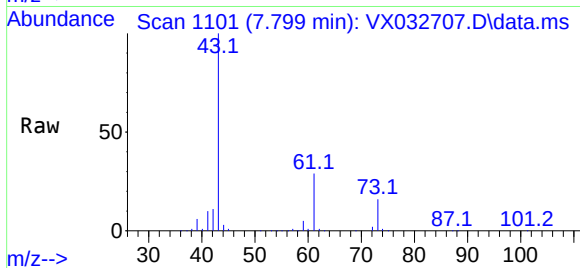
Tgt Ion: 41 Resp: 67921

Ion Ratio Lower Upper

41 100

69 0.1 65.1 97.7#

39 56.3 51.9 77.9



#49

1,4-Dioxane

Concen: 2.382 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.122 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

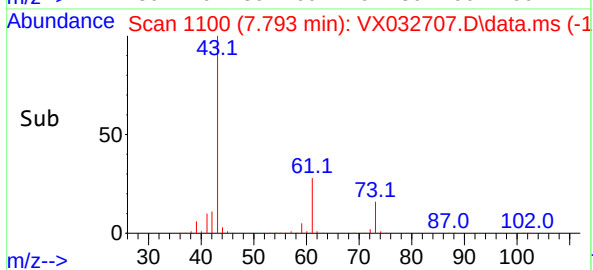
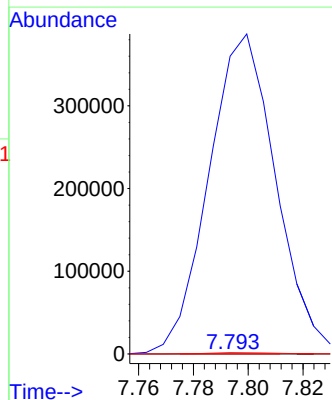
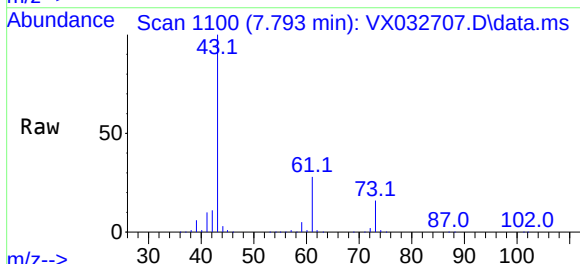
Tgt Ion: 88 Resp: 81

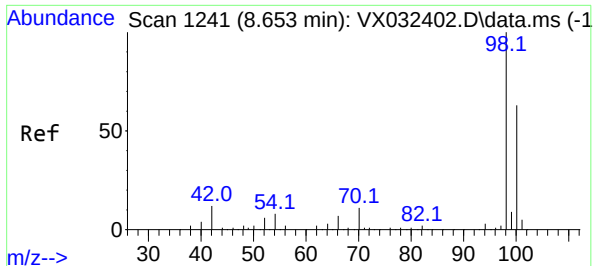
Ion Ratio Lower Upper

88 100

43 819116.0 26.6 39.8#

58 3279.0 51.7 77.5#





#50

Toluene-d8

Concen: 50.336 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

Instrument :

MSVOA\_X

ClientSampleId :

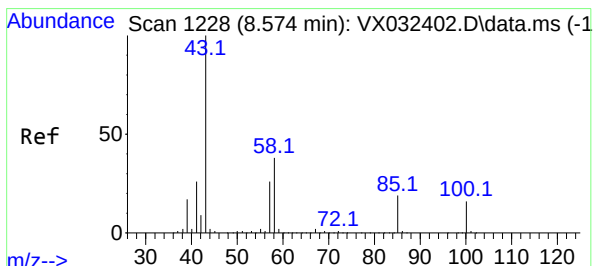
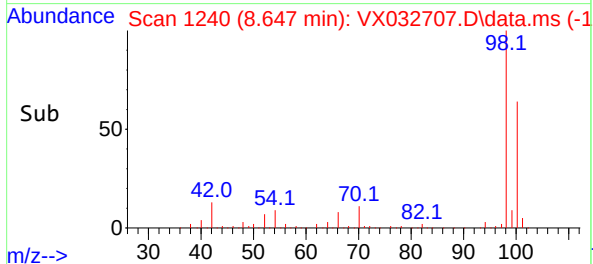
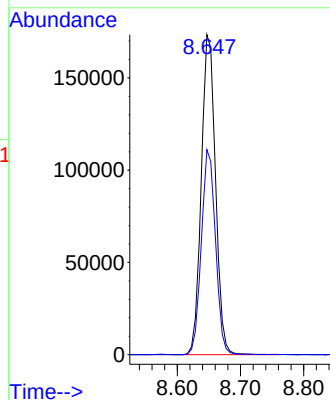
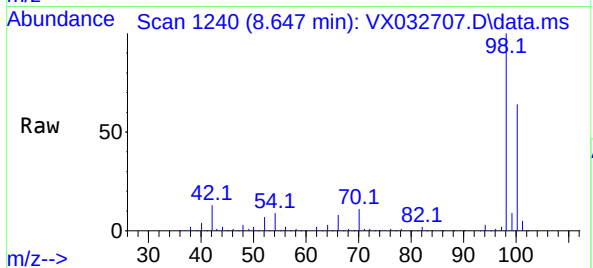
TP-8

Tgt Ion: 98 Resp: 271742

Ion Ratio Lower Upper

98 100

100 63.9 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 27.610 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. -0.024 min

Lab File: VX032707.D

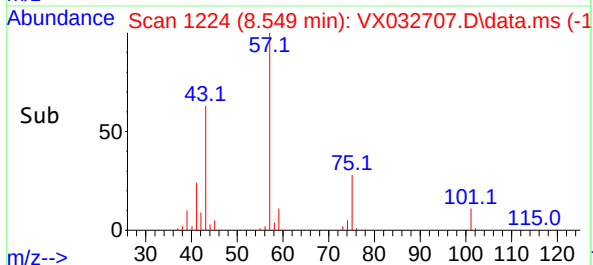
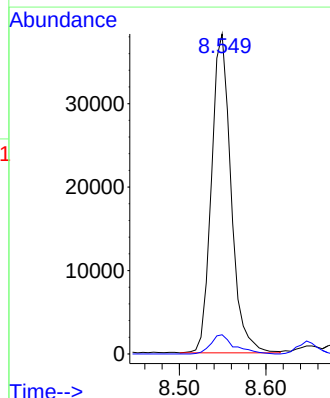
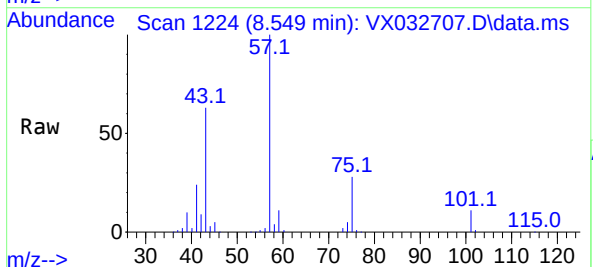
Acq: 10 Nov 2022 05:18

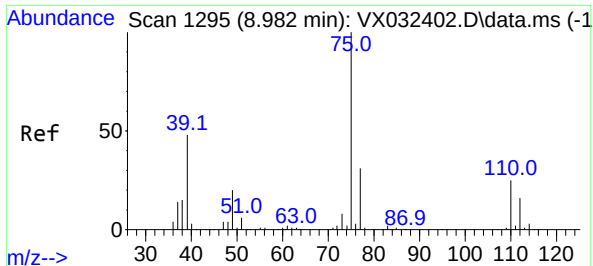
Tgt Ion: 43 Resp: 60092

Ion Ratio Lower Upper

43 100

58 7.2 30.9 46.3#





#53

t-1,3-Dichloropropene

Concen: 0.211 ug/l

RT: 8.958 min Scan# 11

Delta R.T. -0.024 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

Instrument :

MSVOA\_X

ClientSampleId :

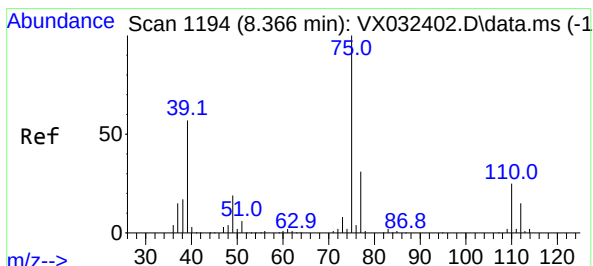
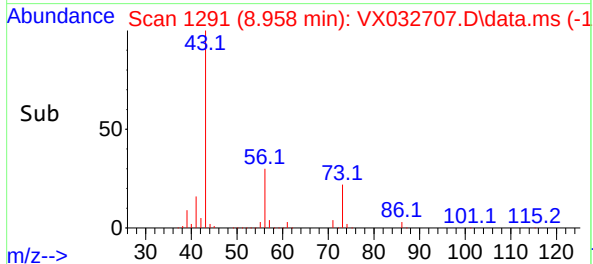
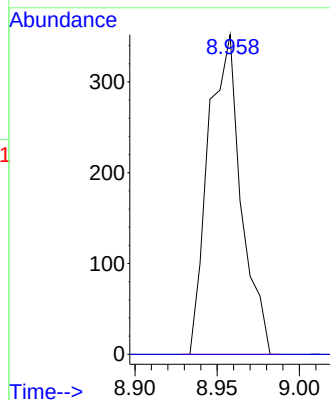
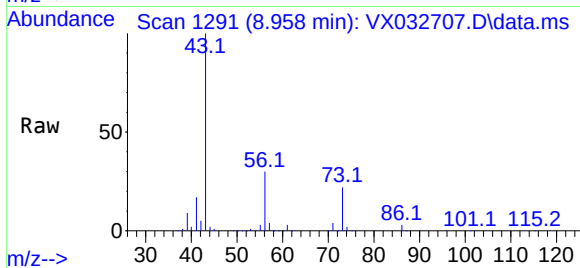
TP-8

Tgt Ion: 75 Resp: 491

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#



#54

cis-1,3-Dichloropropene

Concen: 10.227 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX032707.D

Acq: 10 Nov 2022 05:18

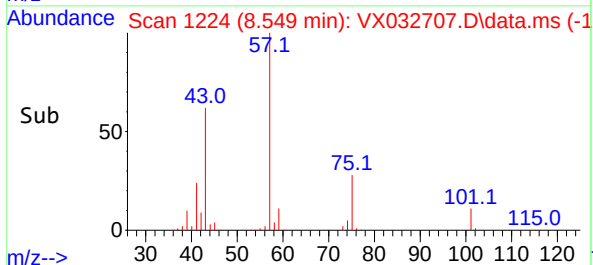
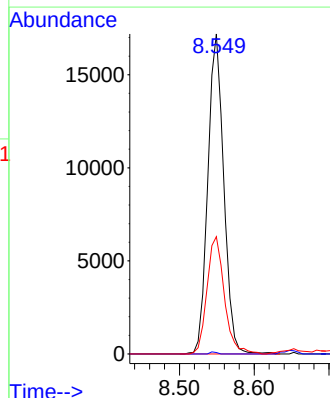
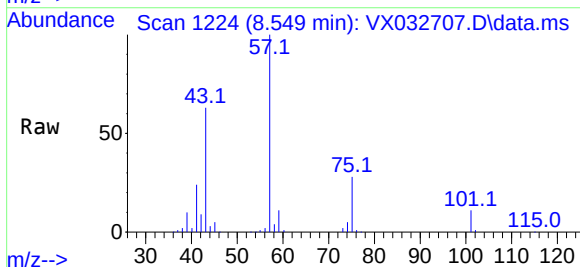
Tgt Ion: 75 Resp: 25477

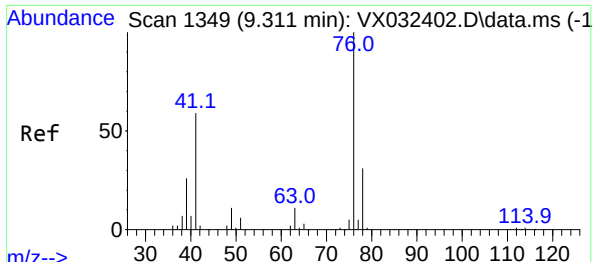
Ion Ratio Lower Upper

75 100

77 0.5 25.1 37.7#

39 36.6 45.5 68.3#

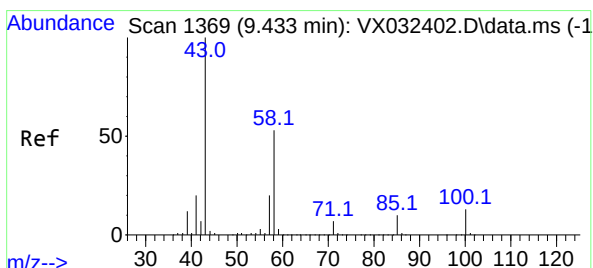
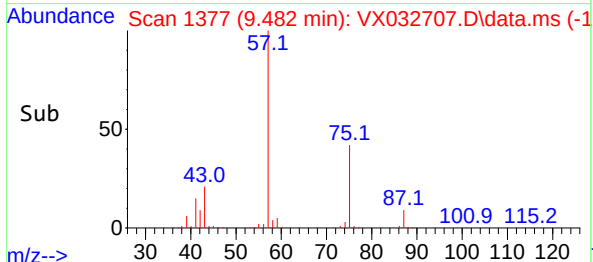
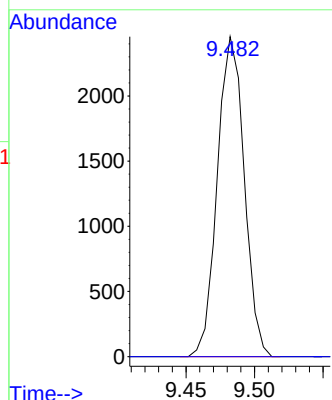
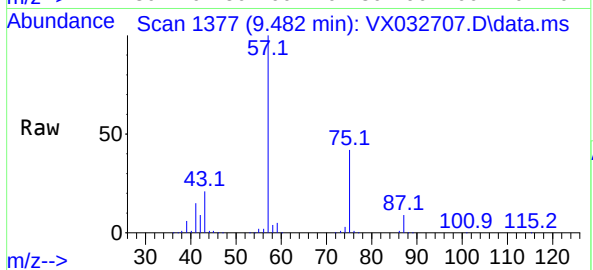




#57  
1,3-Dichloropropane  
Concen: 1.235 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.171 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

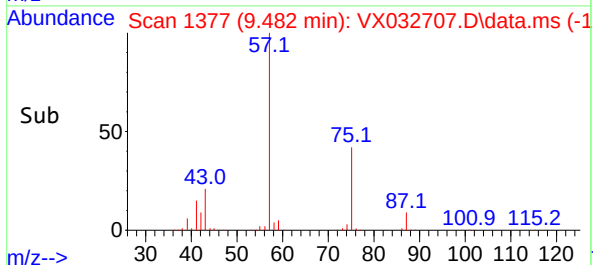
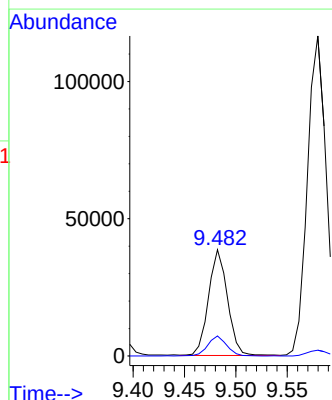
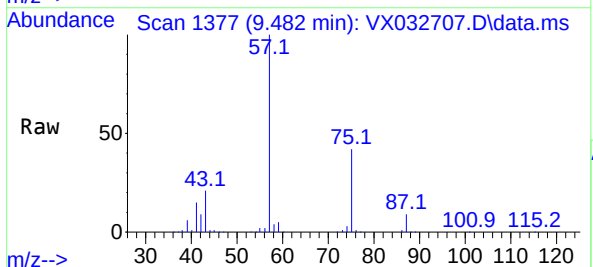
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-8

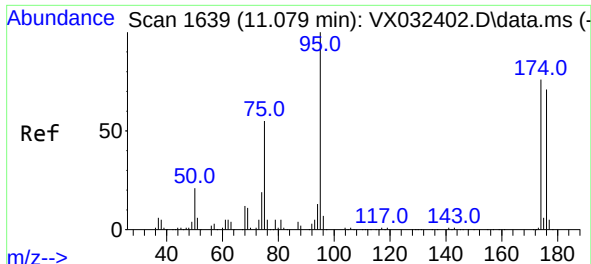
Tgt Ion: 76 Resp: 3354  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.0 39.0#



#59  
2-Hexanone  
Concen: 30.736 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.049 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

Tgt Ion: 43 Resp: 49637  
Ion Ratio Lower Upper  
43 100  
58 18.9 26.5 79.5#

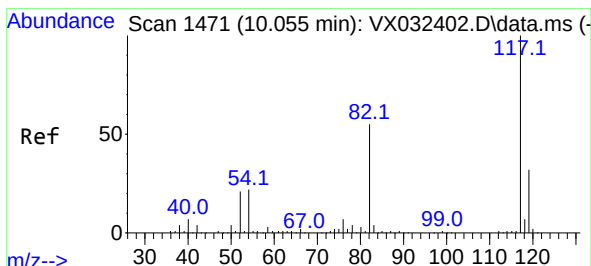
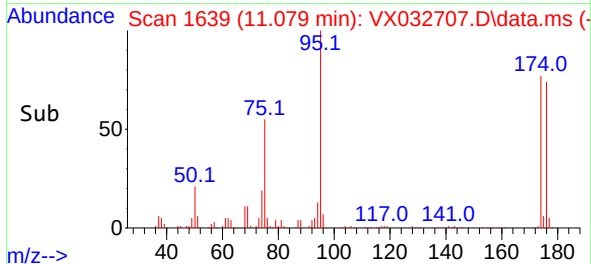
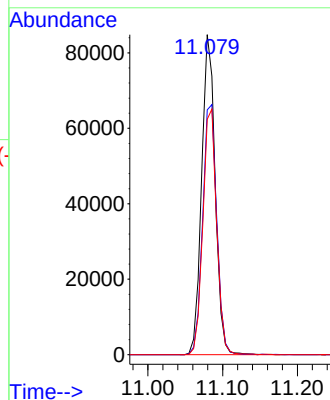
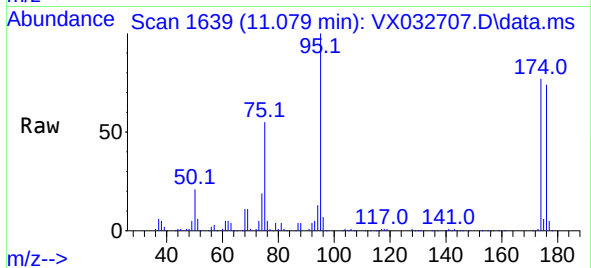




#62  
4-Bromofluorobenzene  
Concen: 50.482 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

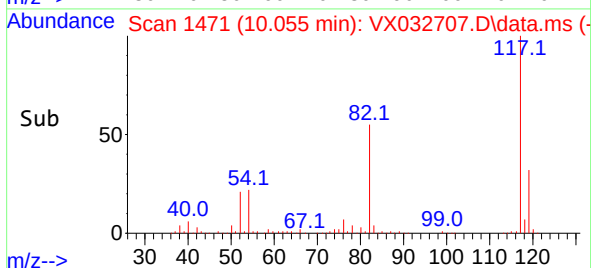
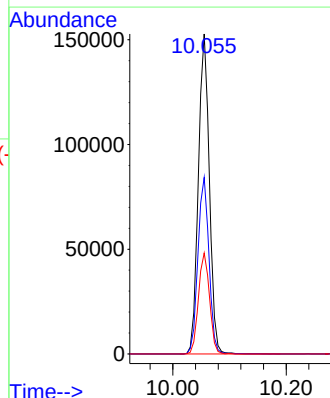
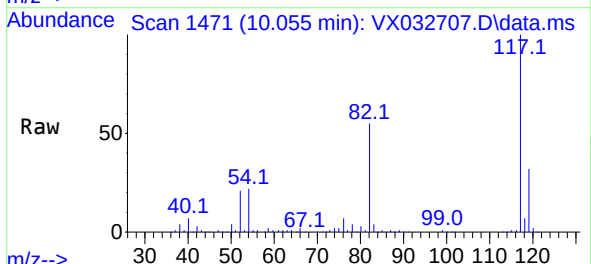
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-8

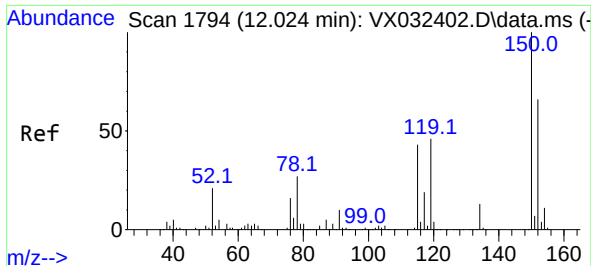
Tgt Ion: 95 Resp: 106456  
Ion Ratio Lower Upper  
95 100  
174 81.4 0.0 164.0  
176 78.3 0.0 154.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

Tgt Ion: 117 Resp: 205182  
Ion Ratio Lower Upper  
117 100  
82 55.2 44.3 66.5  
119 31.6 25.7 38.5

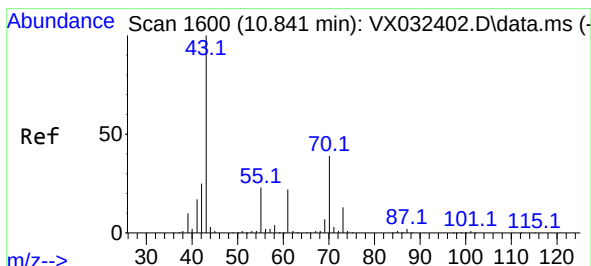
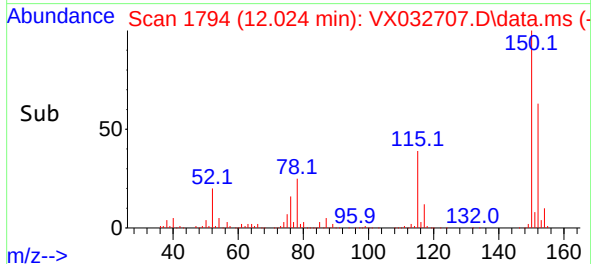
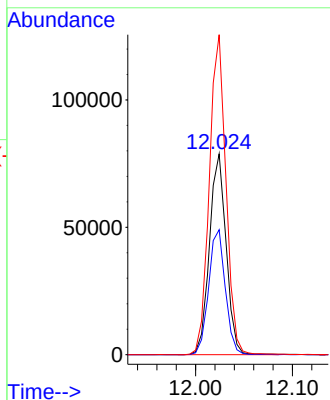
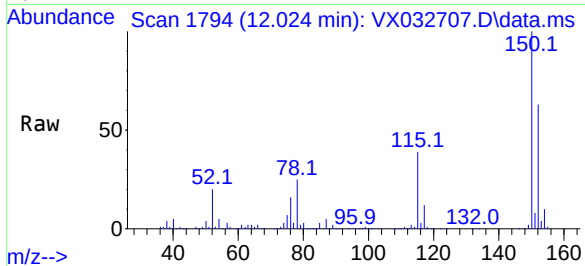




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

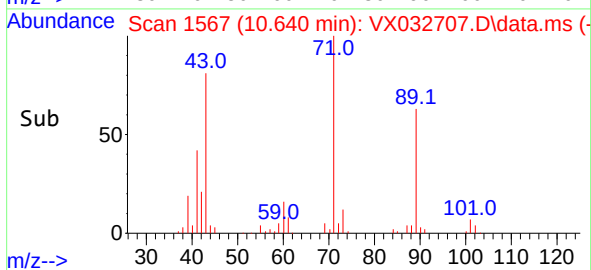
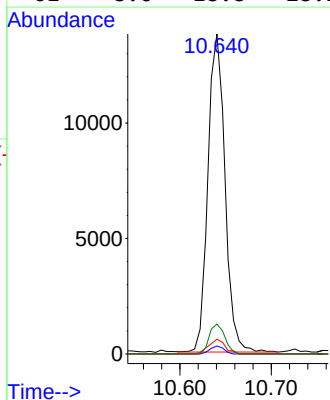
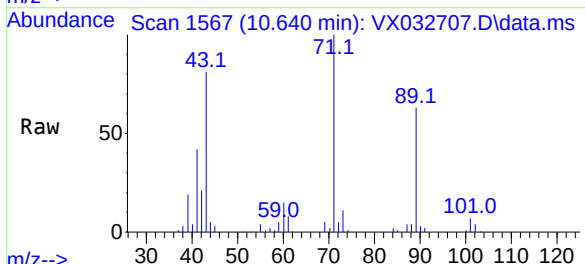
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-8

Tgt Ion:152 Resp: 94666  
Ion Ratio Lower Upper  
152 100  
115 62.3 44.0 132.0  
150 159.0 0.0 351.8

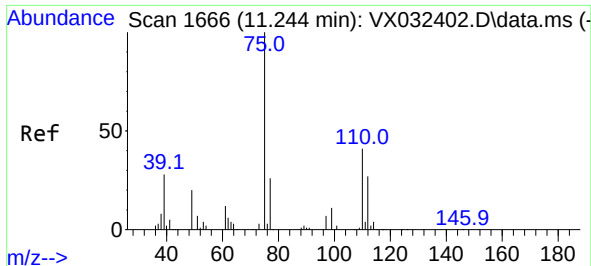


#74  
N-ethyl acetate  
Concen: 6.286 ug/l  
RT: 10.640 min Scan# 1567  
Delta R.T. -0.201 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

Tgt Ion: 43 Resp: 17817  
Ion Ratio Lower Upper  
43 100  
70 2.0 33.6 50.4#  
55 4.4 19.4 29.2#  
61 8.6 18.8 28.2#



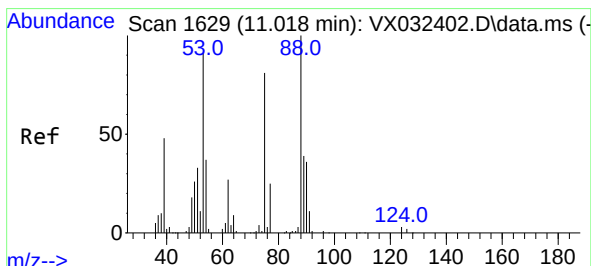
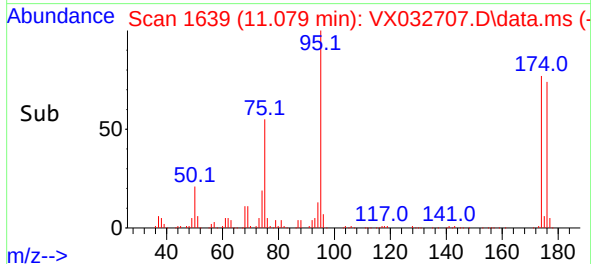
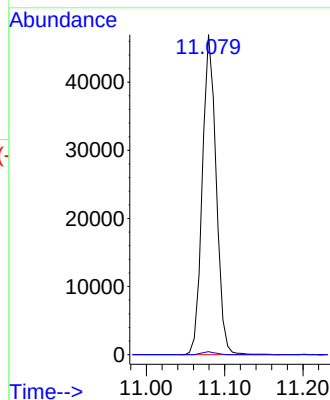
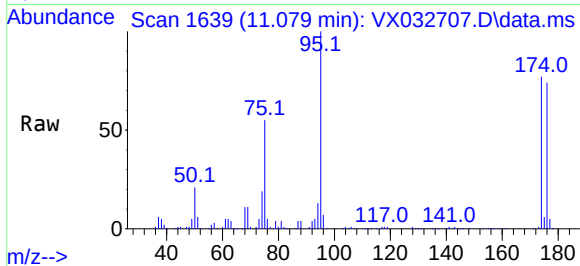




#76  
1,2,3-Trichloropropane  
Concen: 27.369 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.164 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-8

Tgt Ion: 75 Resp: 57642  
Ion Ratio Lower Upper  
75 100  
77 0.9 20.0 60.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 87.090 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX032707.D  
Acq: 10 Nov 2022 05:18

Tgt Ion: 75 Resp: 57642  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.9 130.3#  
89 0.0 38.3 57.5#

