

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122022\  
 Data File : VX033499.D  
 Acq On : 20 Dec 2022 11:32  
 Operator : JC/MD  
 Sample : VX1220WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX1220WBL01

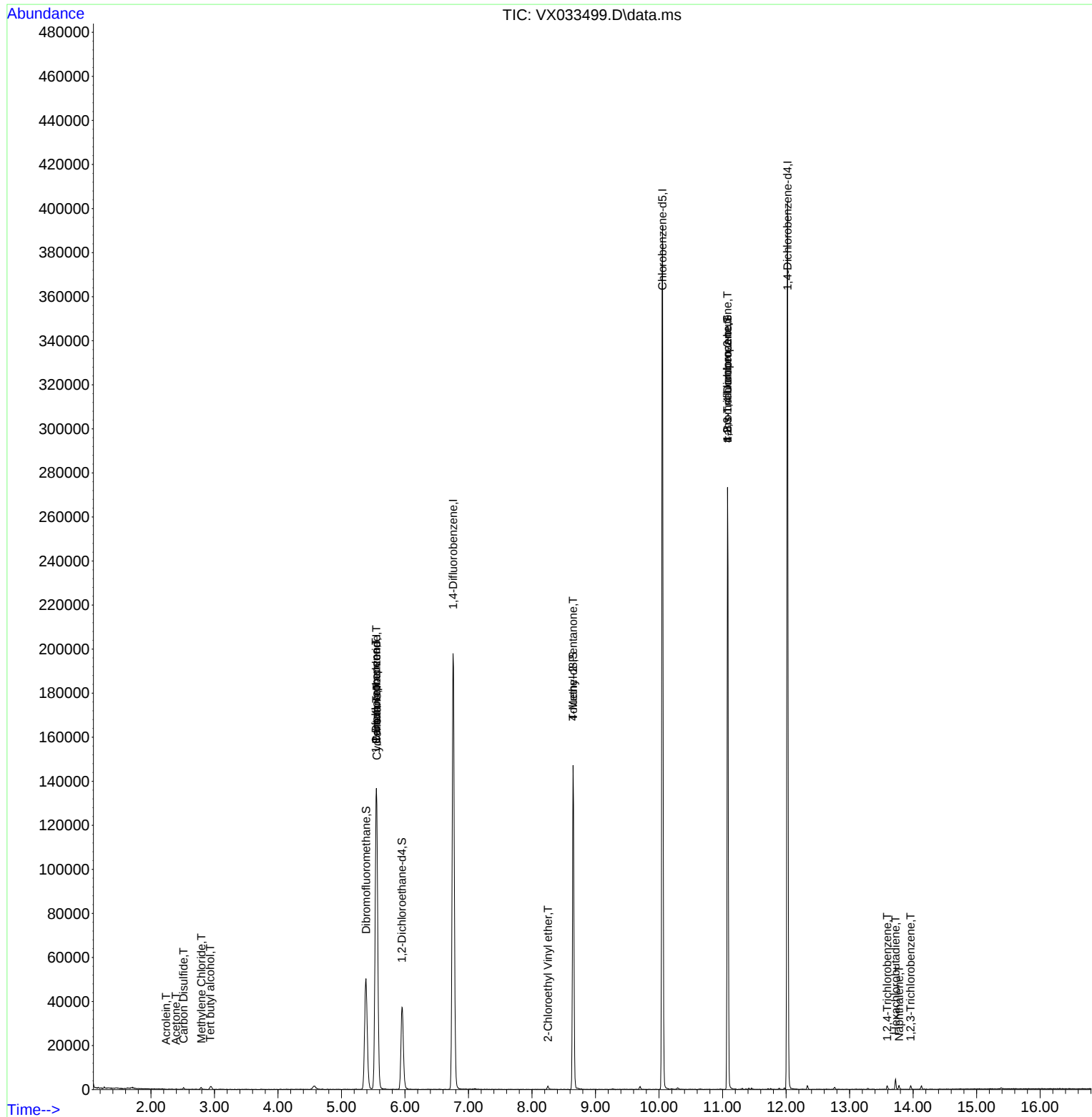
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X120722W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 07 12:43:54 2022  
 Response via : Initial Calibration

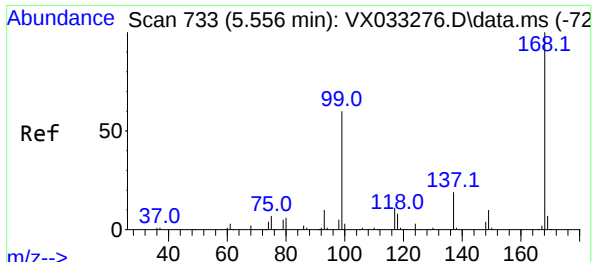
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 135235     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 209656     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 183579     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 86370      | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 38832      | 44.759   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 89.520%  |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 43920      | 46.575   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 93.160%  |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 88451      | 44.838   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 89.680%# |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 68598      | 45.479   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 90.960%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          | Qvalue |          |
| 11) Tert butyl alcohol        | 2.934          | 59   | 881        | 3.321    | ug/l # | 72       |
| 13) Acrolein                  | 2.239          | 56   | 79         | 0.275    | ug/l # | 14       |
| 16) Acetone                   | 2.392          | 43   | 163        | 0.254    | ug/l # | 45       |
| 17) Carbon Disulfide          | 2.514          | 76   | 766        | 0.243    | ug/l   | 96       |
| 20) Methylene Chloride        | 2.794          | 84   | 352        | 0.246    | ug/l # | 76       |
| 31) Cyclohexane               | 5.556          | 56   | 2414       | 1.171    | ug/l # | 15       |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 9897       | 5.383    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 13560      | 6.583    | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 8.647          | 43   | 364        | 0.206    | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether | 8.250          | 63   | 742        | 0.791    | ug/l # | 74       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 36385      | 20.706   | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 36385      | 64.410   | ug/l # | 6        |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 511        | 0.296    | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 778        | 1.124    | ug/l   | 91       |
| 95) Naphthalene               | 13.780         | 128  | 1588       | 0.275    | ug/l # | 96       |
| 96) 1,2,3-Trichlorobenzene    | 13.963         | 180  | 556        | 0.318    | ug/l   | 95       |
| -----                         |                |      |            |          |        |          |

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

**Instrument :**  
MSVOA\_X  
**ClientSampleId :**  
VX1220WBL01

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**ClientSampleId :**  
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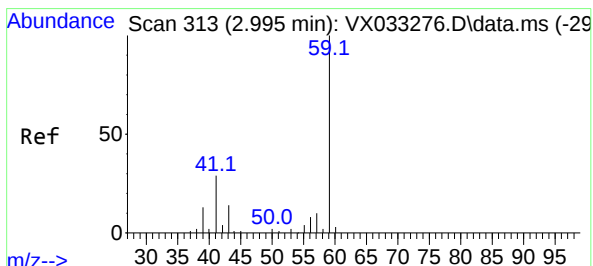
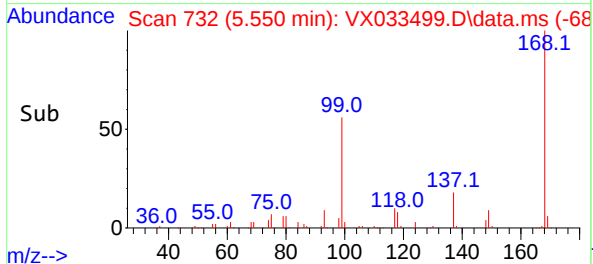
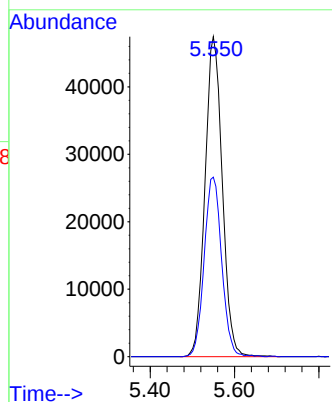
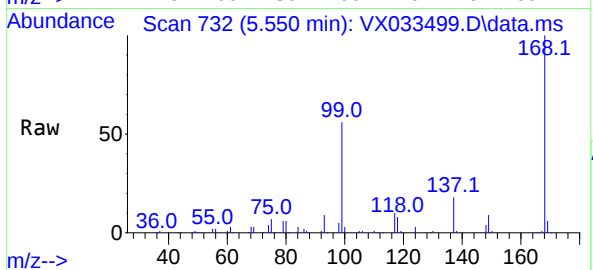




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

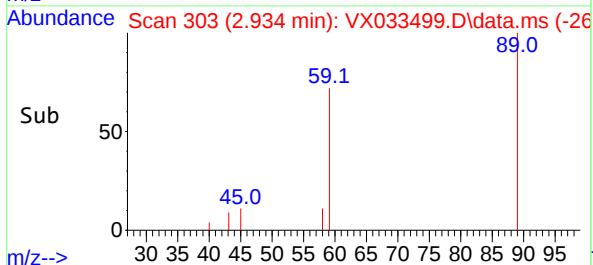
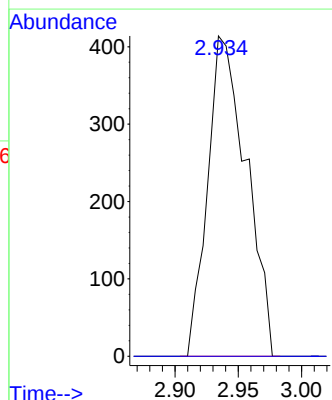
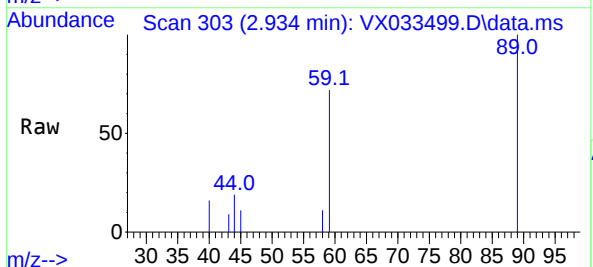
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1220WBL01

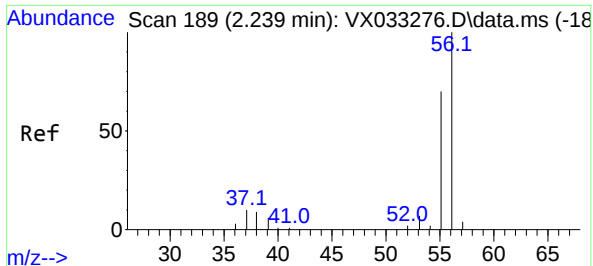
Tgt Ion:168 Resp: 135235  
Ion Ratio Lower Upper  
168 100  
99 56.1 46.1 69.1



#11  
Tert butyl alcohol  
Concen: 3.321 ug/l  
RT: 2.934 min Scan# 303  
Delta R.T. -0.061 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

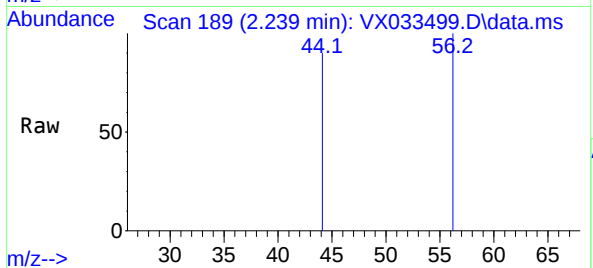
Tgt Ion: 59 Resp: 881  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#



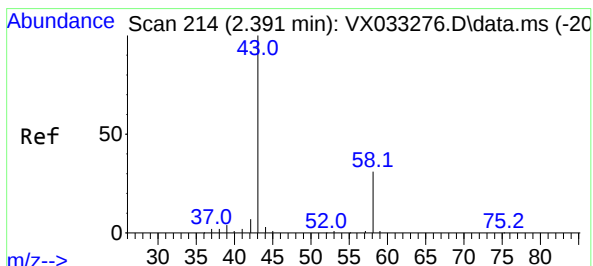
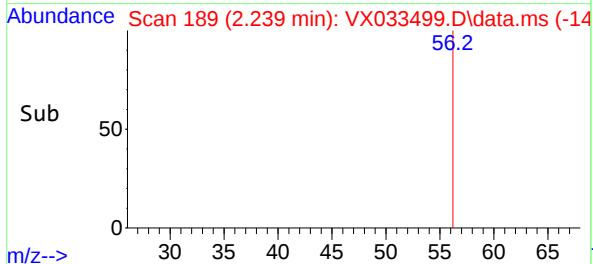
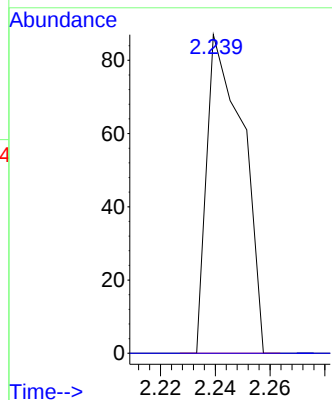


#13  
Acrolein  
Concen: 0.275 ug/l  
RT: 2.239 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1220WBL01

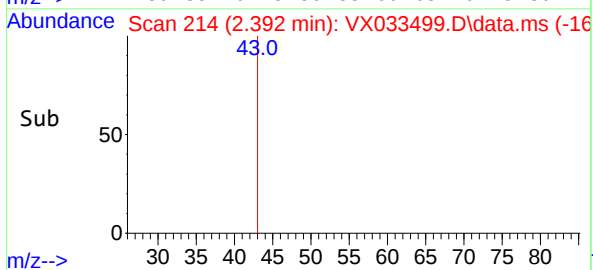
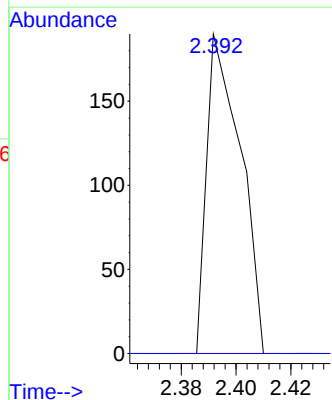
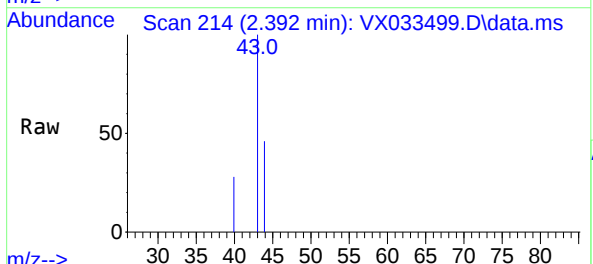


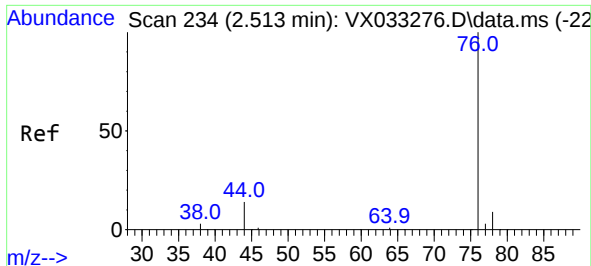
Tgt Ion: 56 Resp: 79  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.9 85.3#



#16  
Acetone  
Concen: 0.254 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. 0.000 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

Tgt Ion: 43 Resp: 163  
Ion Ratio Lower Upper  
43 100  
58 0.0 23.8 35.8#

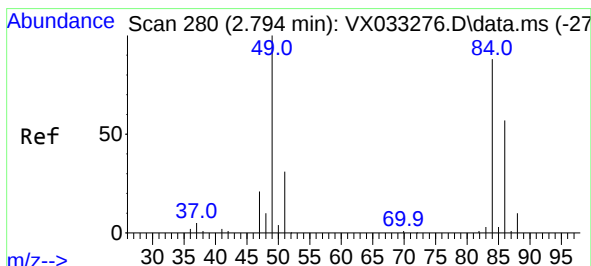
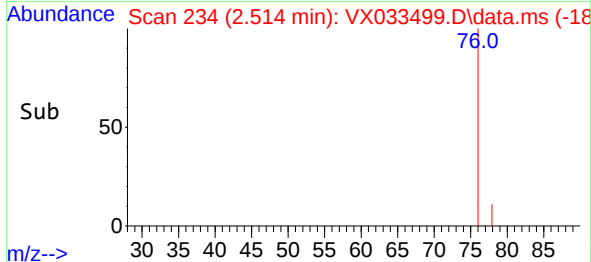
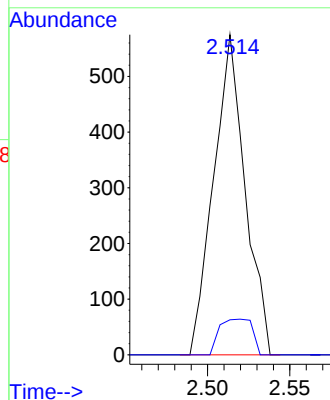
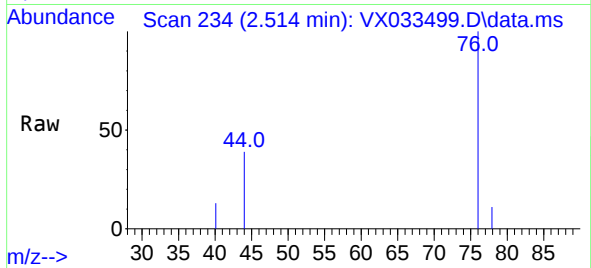




#17  
Carbon Disulfide  
Concen: 0.243 ug/l  
RT: 2.514 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

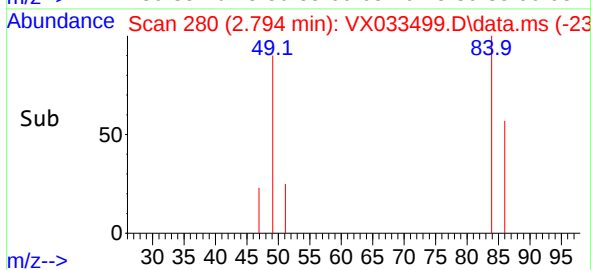
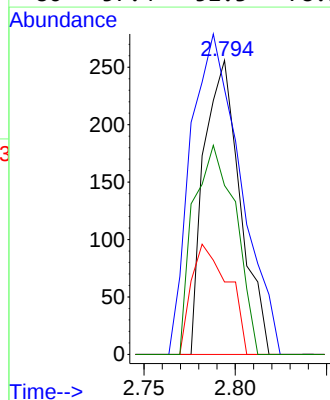
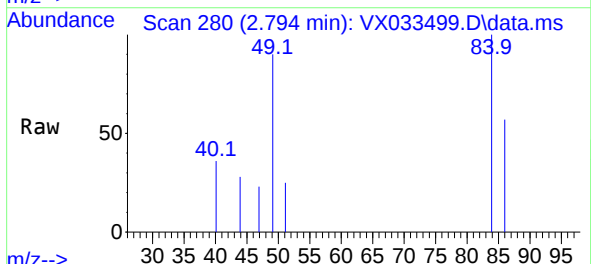
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1220WBL01

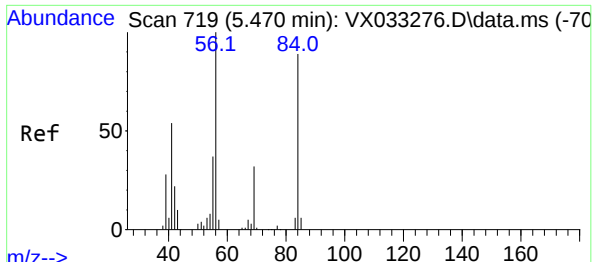
Tgt Ion: 76 Resp: 766  
Ion Ratio Lower Upper  
76 100  
78 11.0 7.5 11.3



#20  
Methylene Chloride  
Concen: 0.246 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.000 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

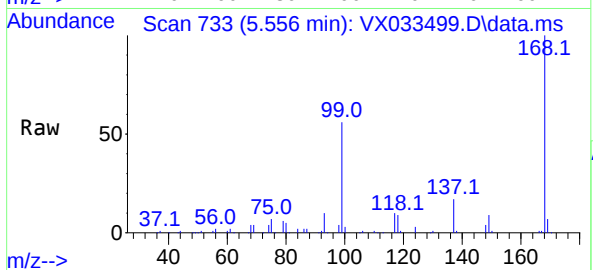
Tgt Ion: 84 Resp: 352  
Ion Ratio Lower Upper  
84 100  
49 90.2 101.0 151.6#  
51 24.6 31.1 46.7#  
86 57.4 52.3 78.5



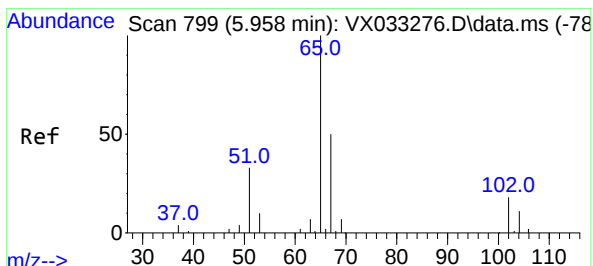
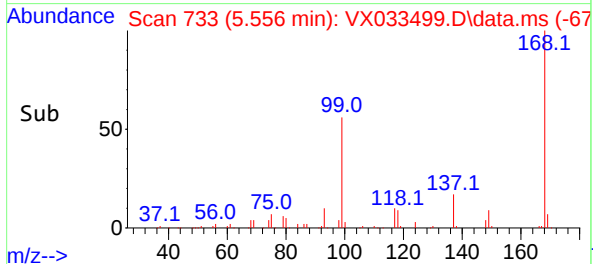
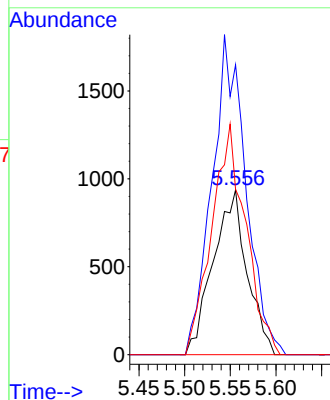


#31  
Cyclohexane  
Concen: 1.171 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.086 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1220WBL01

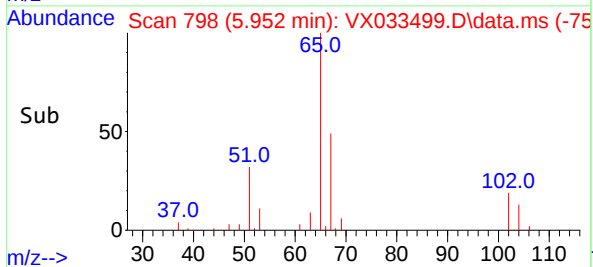
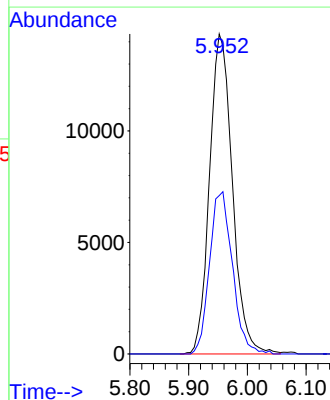
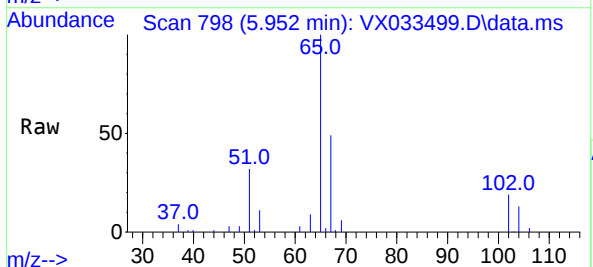


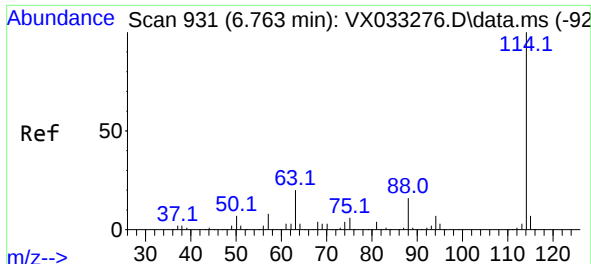
Tgt Ion: 56 Resp: 2414  
Ion Ratio Lower Upper  
56 100  
69 176.0 24.1 36.1#  
84 100.4 66.9 100.3#



#33  
1,2-Dichloroethane-d4  
Concen: 44.759 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. -0.006 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

Tgt Ion: 65 Resp: 38832  
Ion Ratio Lower Upper  
65 100  
67 50.8 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX033499.D

Acq: 20 Dec 2022 11:32

Instrument :

MSVOA\_X

ClientSampleId :

VX1220WBL01

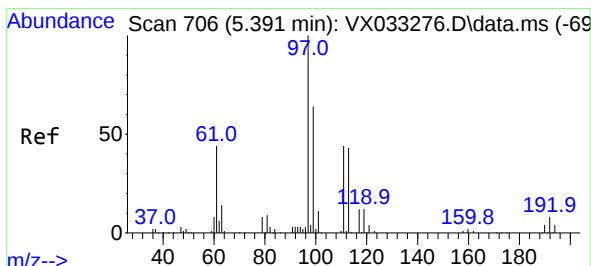
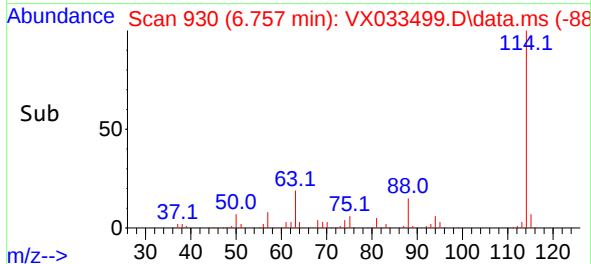
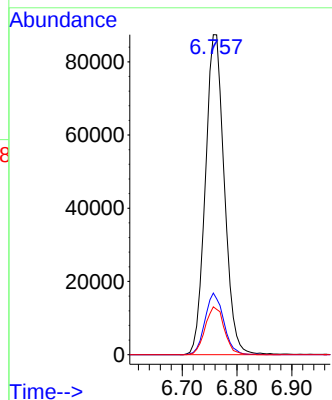
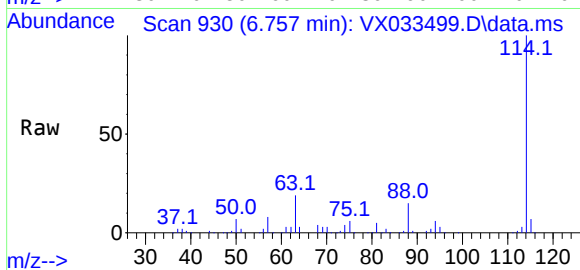
Tgt Ion:114 Resp: 209656

Ion Ratio Lower Upper

114 100

63 19.3 0.0 41.6

88 15.0 0.0 33.4



#35

Dibromofluoromethane

Concen: 46.575 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.006 min

Lab File: VX033499.D

Acq: 20 Dec 2022 11:32

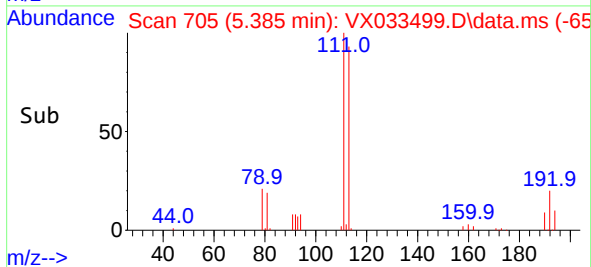
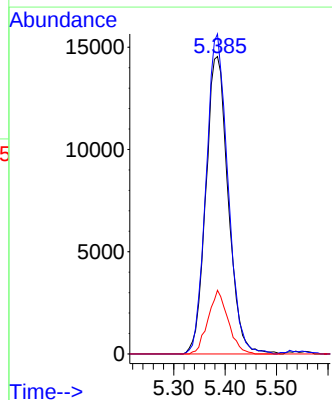
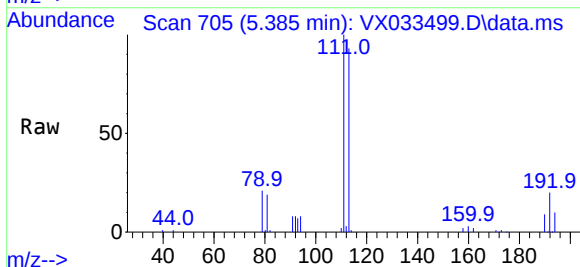
Tgt Ion:113 Resp: 43920

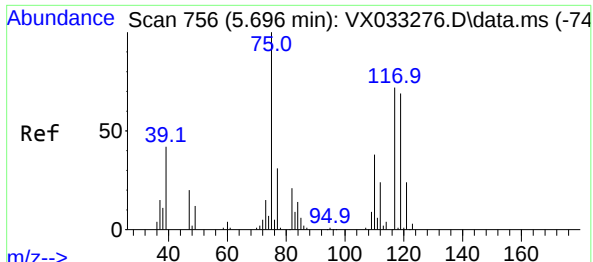
Ion Ratio Lower Upper

113 100

111 104.9 82.4 123.6

192 19.2 15.4 23.2

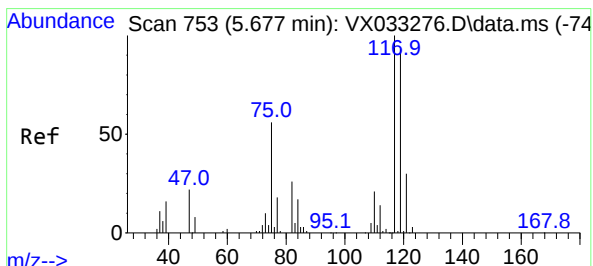
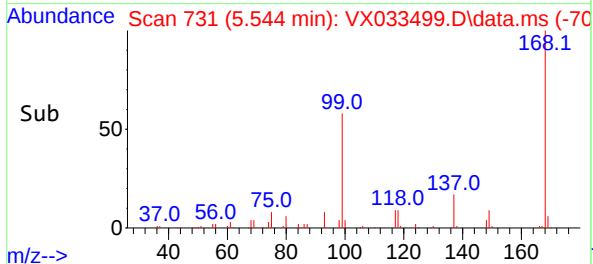
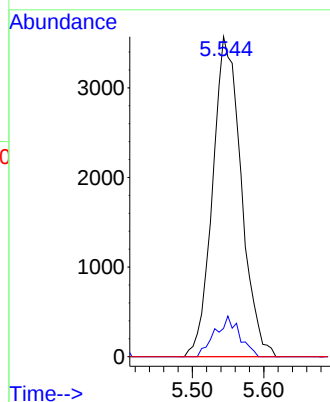
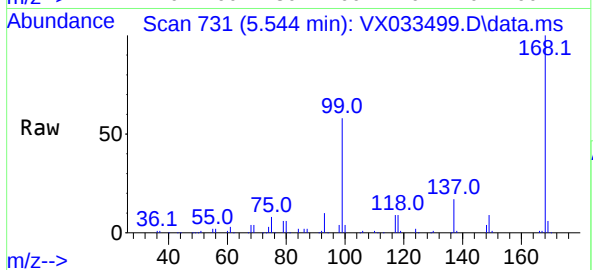




#36  
1,1-Dichloropropene  
Concen: 5.383 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.152 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

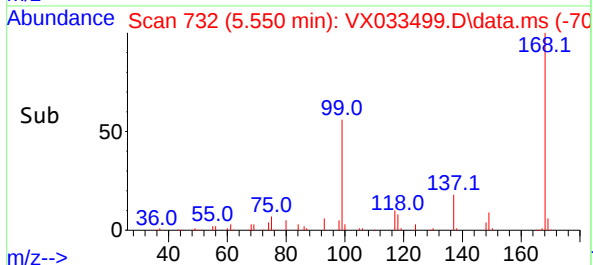
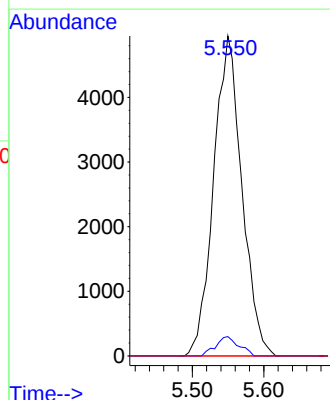
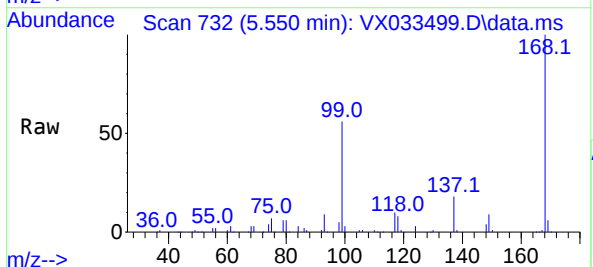
Instrument :  
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VX1220WBL01

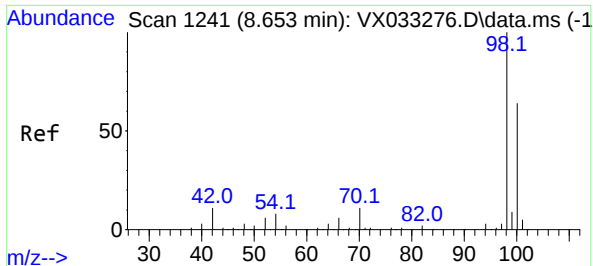
Tgt Ion: 75 Resp: 9897  
Ion Ratio Lower Upper  
75 100  
110 10.9 18.4 55.2#  
77 0.0 24.5 36.7#



#38  
Carbon Tetrachloride  
Concen: 6.583 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.128 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

Tgt Ion: 117 Resp: 13560  
Ion Ratio Lower Upper  
117 100  
119 6.1 77.2 115.8#  
121 0.0 25.8 38.6#





#50

Toluene-d8

Concen: 44.838 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX033499.D

Acq: 20 Dec 2022 11:32

Instrument :

MSVOA\_X

ClientSampleId :

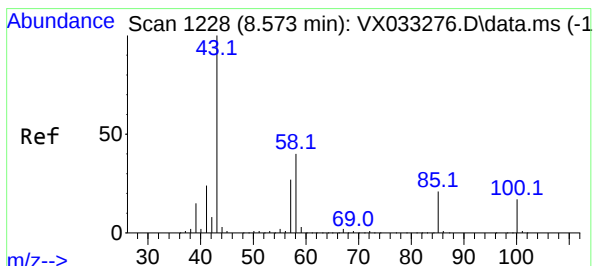
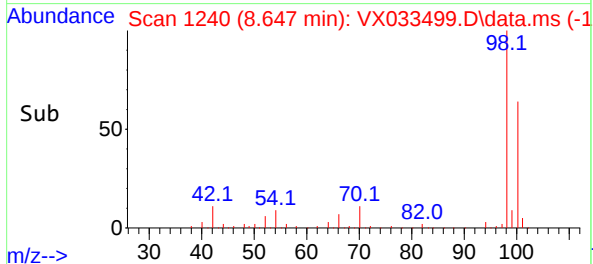
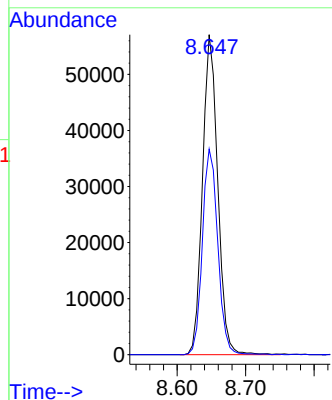
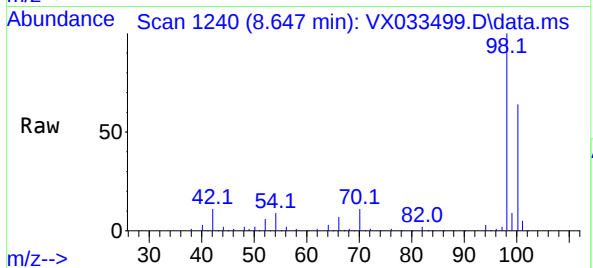
VX1220WBL01

Tgt Ion: 98 Resp: 88451

Ion Ratio Lower Upper

98 100

100 64.9 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 0.206 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX033499.D

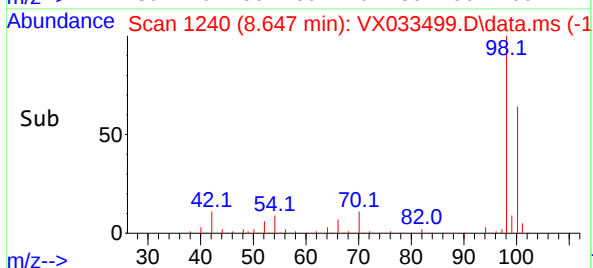
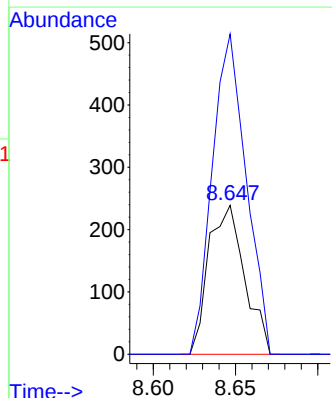
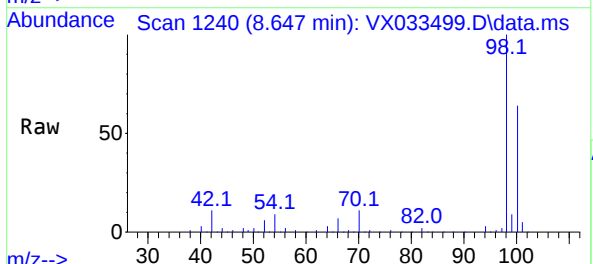
Acq: 20 Dec 2022 11:32

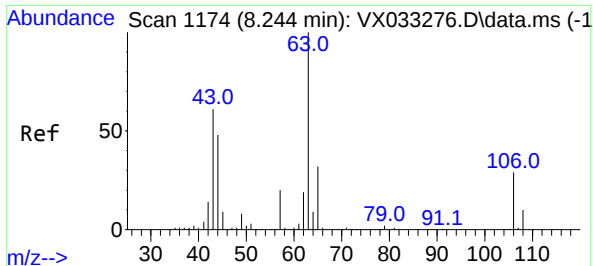
Tgt Ion: 43 Resp: 364

Ion Ratio Lower Upper

43 100

58 203.0 30.9 46.3#

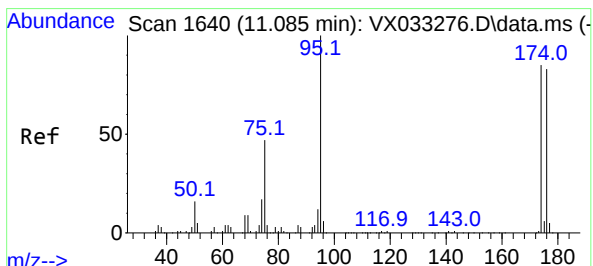
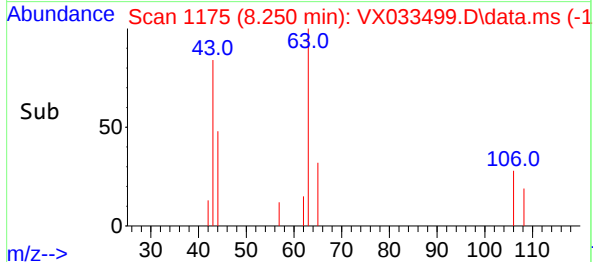
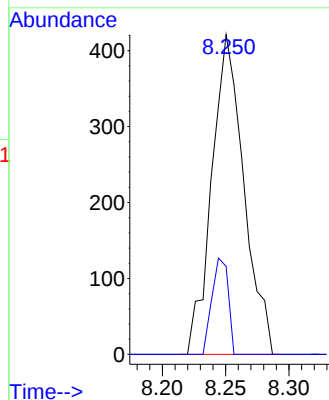
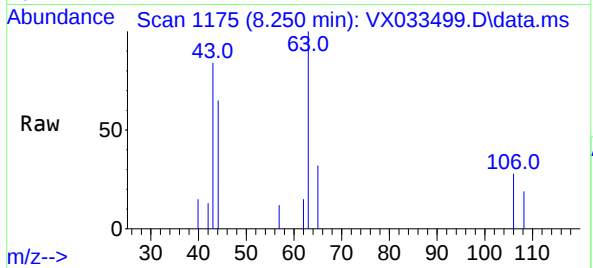




#58  
2-Chloroethyl Vinyl ether  
Concen: 0.791 ug/l  
RT: 8.250 min Scan# 1174  
Delta R.T. 0.006 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

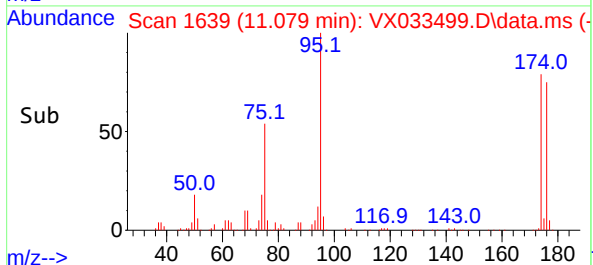
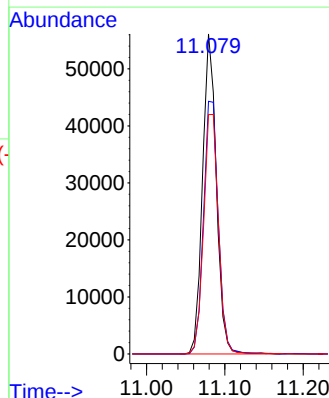
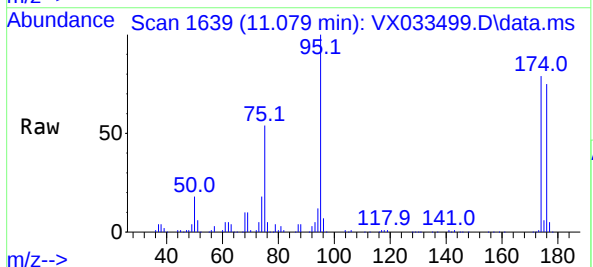
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1220WBL01

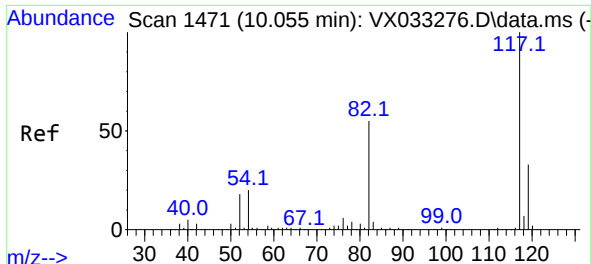
Tgt Ion: 63 Resp: 742  
Ion Ratio Lower Upper  
63 100  
106 15.2 23.3 34.9#



#62  
4-Bromofluorobenzene  
Concen: 45.479 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.006 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

Tgt Ion: 95 Resp: 68598  
Ion Ratio Lower Upper  
95 100  
174 84.5 0.0 164.0  
176 80.7 0.0 154.4

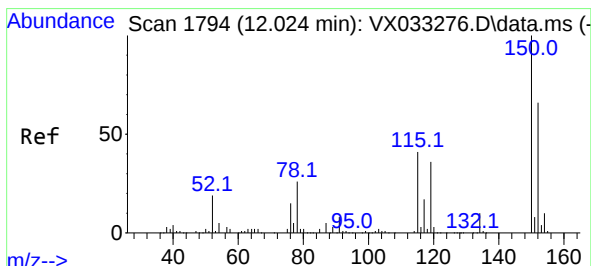
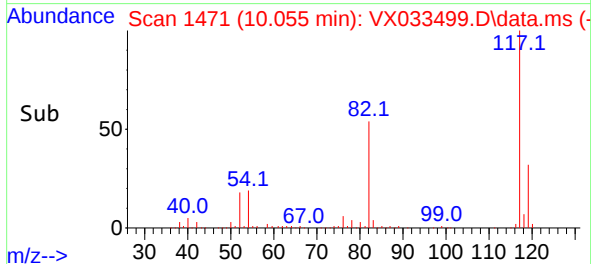
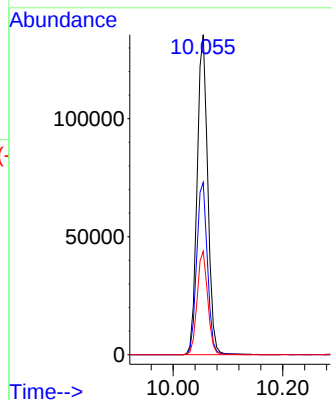
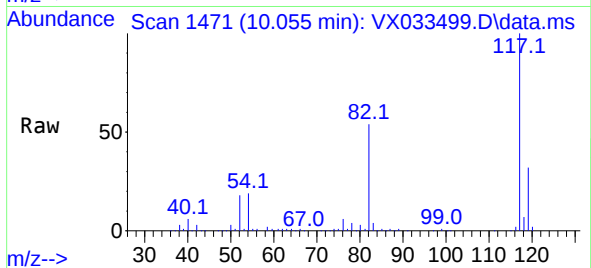




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

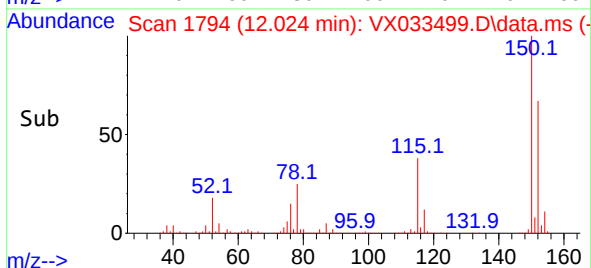
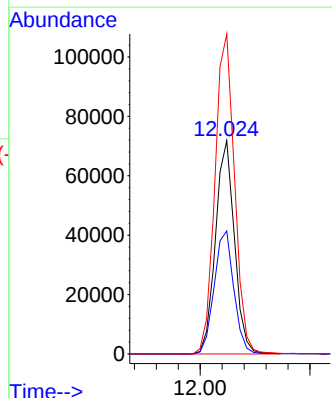
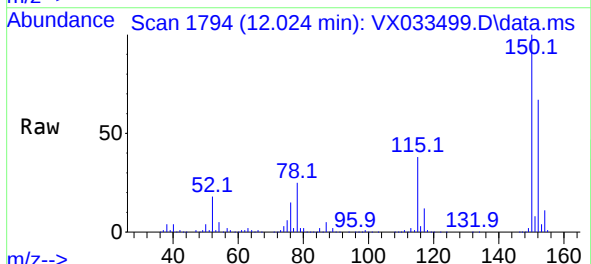
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1220WBL01

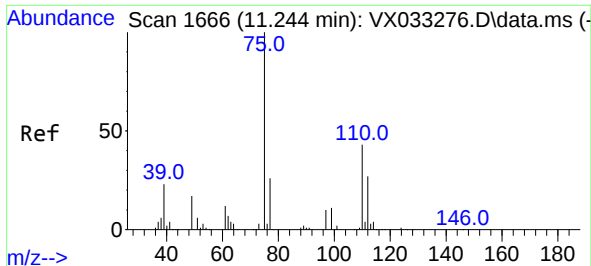
Tgt Ion:117 Resp: 183579  
Ion Ratio Lower Upper  
117 100  
82 53.8 44.3 66.5  
119 32.3 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

Tgt Ion:152 Resp: 86370  
Ion Ratio Lower Upper  
152 100  
115 59.9 44.0 132.0  
150 155.3 0.0 351.8

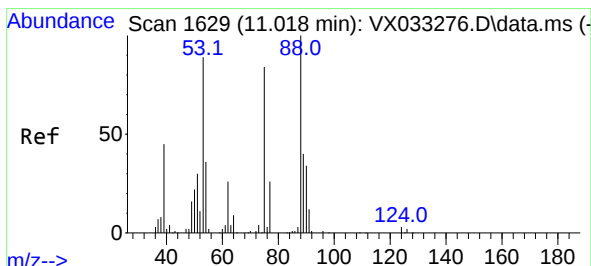
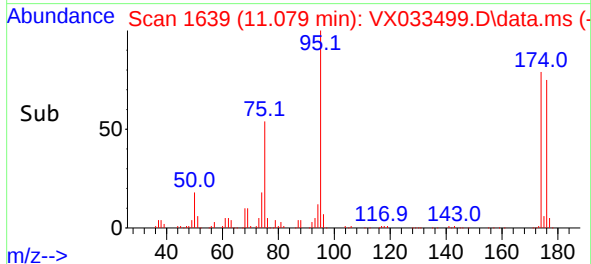
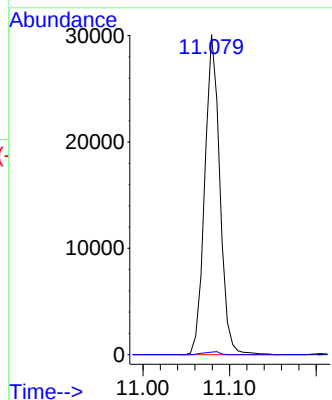
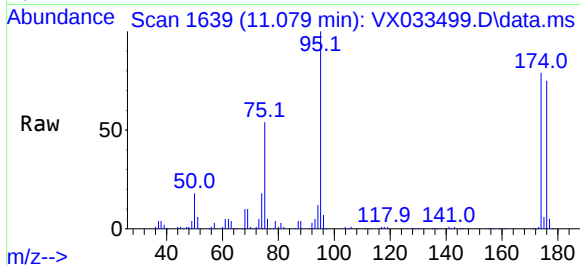




#76  
1,2,3-Trichloropropane  
Concen: 20.706 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.164 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

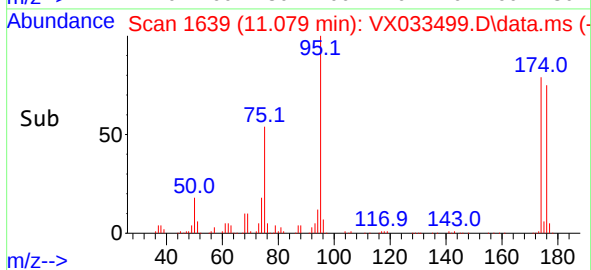
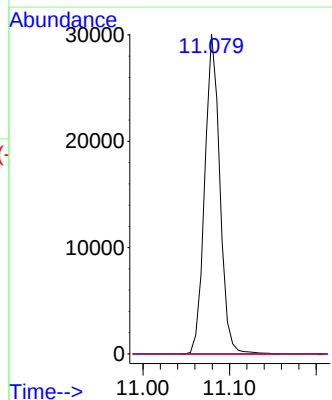
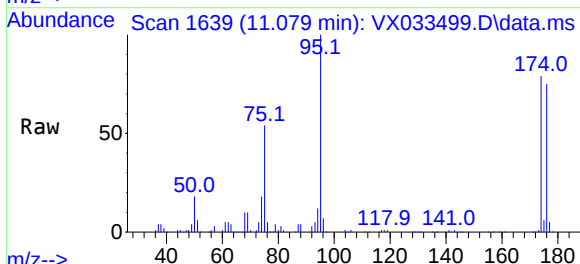
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1220WBL01

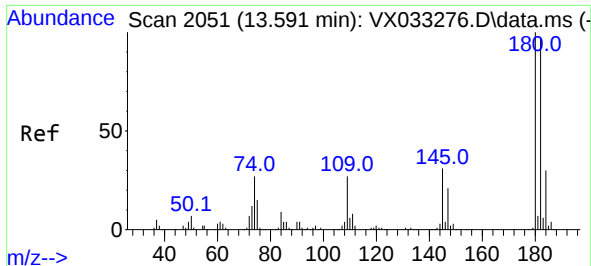
Tgt Ion: 75 Resp: 36385  
Ion Ratio Lower Upper  
75 100  
77 1.0 20.0 60.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 64.410 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

Tgt Ion: 75 Resp: 36385  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.9 130.3#  
89 0.0 38.3 57.5#

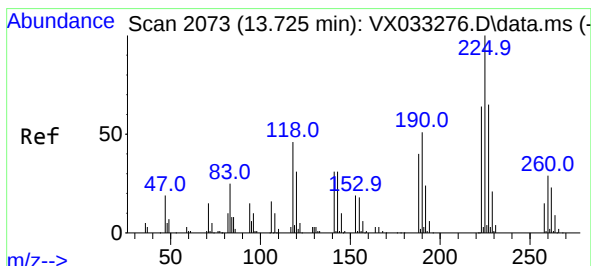
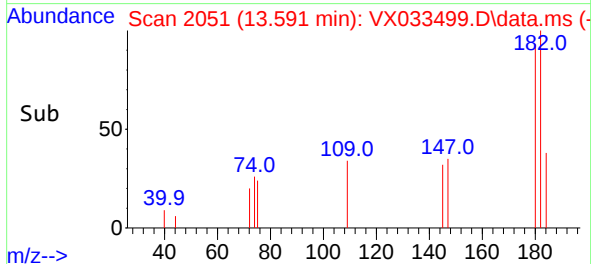
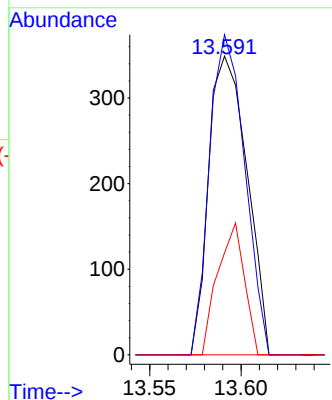
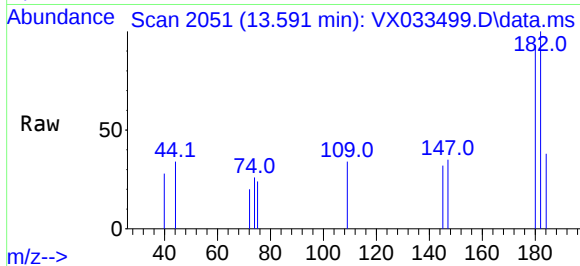




#93  
1,2,4-Trichlorobenzene  
Concen: 0.296 ug/l  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.000 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

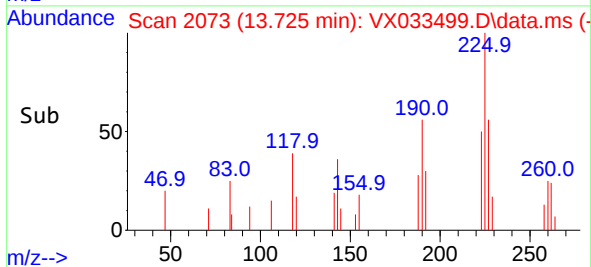
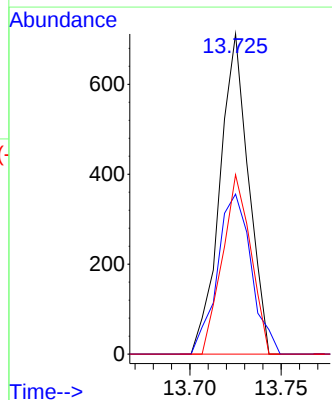
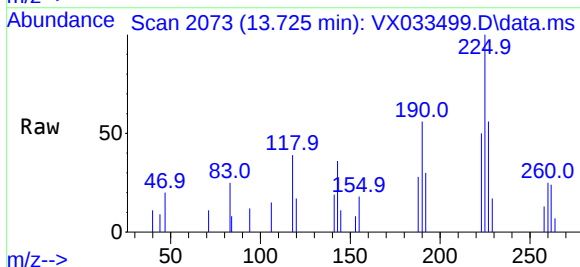
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1220WBL01

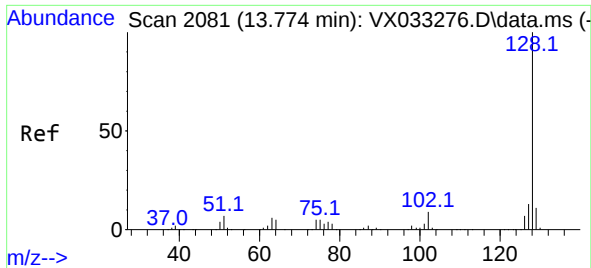
Tgt Ion:180 Resp: 511  
Ion Ratio Lower Upper  
180 100  
182 98.4 48.4 145.0  
145 30.5 16.2 48.5



#94  
Hexachlorobutadiene  
Concen: 1.124 ug/l  
RT: 13.725 min Scan# 2073  
Delta R.T. 0.000 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

Tgt Ion:225 Resp: 778  
Ion Ratio Lower Upper  
225 100  
223 59.1 31.9 95.9  
227 55.1 31.9 95.5

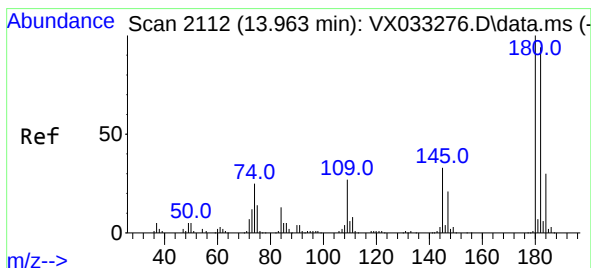
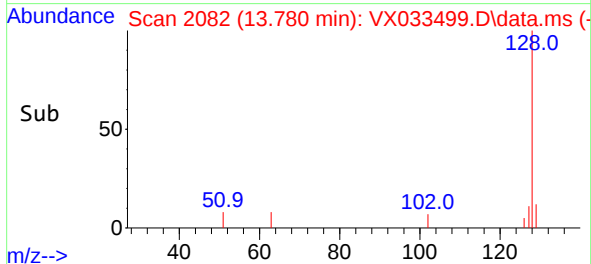
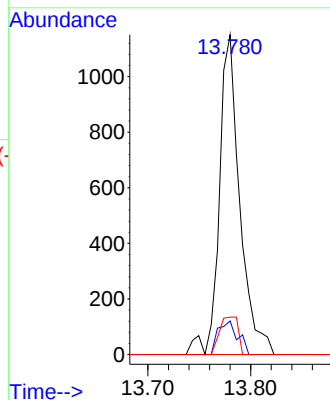
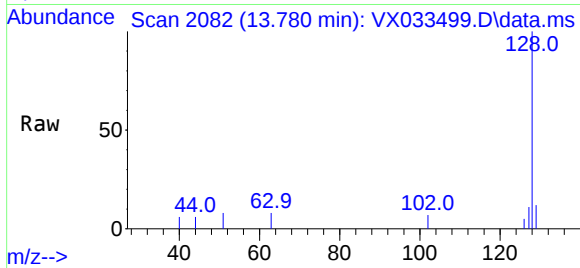




#95  
Naphthalene  
Concen: 0.275 ug/l  
RT: 13.780 min Scan# 2081  
Delta R.T. 0.006 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX1220WBL01

| Tgt Ion:128 | Resp: | 1588        |
|-------------|-------|-------------|
| Ion         | Ratio | Lower Upper |
| 128         | 100   |             |
| 127         | 10.1  | 10.2 15.4#  |
| 129         | 10.6  | 8.9 13.3    |



#96  
1,2,3-Trichlorobenzene  
Concen: 0.318 ug/l  
RT: 13.963 min Scan# 2112  
Delta R.T. 0.000 min  
Lab File: VX033499.D  
Acq: 20 Dec 2022 11:32

| Tgt Ion:180 | Resp: | 556         |
|-------------|-------|-------------|
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 90.6  | 47.5 142.6  |
| 145         | 36.9  | 16.9 50.6   |

