

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX020822\  
 Data File : VX026843.D  
 Acq On : 09 Feb 2022 00:06  
 Operator : JC/MD  
 Sample : PB142539TB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 36 Sample Multiplier: 1

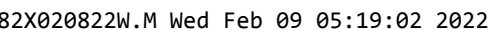
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB142539TB

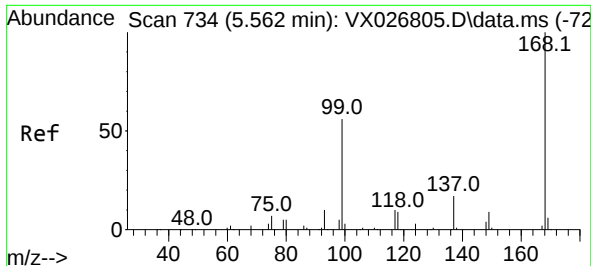
Quant Time: Feb 09 05:18:54 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X020822W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 08 07:07:46 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 129847              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 216220              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 192508              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 82128               | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 81941               | 52.571    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 105.140% |           |        |          |
| 35) Dibromofluoromethane      | 5.391          | 113  | 66862               | 51.904    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 103.800% |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 252837              | 53.470    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 106.940% |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 91121               | 54.734    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 109.460% |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 5) Bromomethane               | 1.624          | 94   | 173                 | 0.297     | ug/l   | 83       |
| 6) Chloroethane               | 1.697          | 64   | 136                 | Below Cal | #      | 43       |
| 10) Methyl Iodide             | 2.465          | 142  | 557                 | 2.543     | ug/l # | 85       |
| 11) Tert butyl alcohol        | 2.934          | 59   | 78                  | 0.277     | ug/l # | 75       |
| 16) Acetone                   | 2.386          | 43   | 5027                | 7.343     | ug/l   | 91       |
| 17) Carbon Disulfide          | 2.520          | 76   | 825                 | 0.219     | ug/l   | 97       |
| 18) Methyl Acetate            | 2.709          | 43   | 692                 | 0.351     | ug/l   | 93       |
| 20) Methylene Chloride        | 2.794          | 84   | 1639                | 1.105     | ug/l   | 97       |
| 25) 2-Butanone                | 4.574          | 43   | 1036                | 0.939     | ug/l   | 91       |
| 31) Cyclohexane               | 5.556          | 56   | 2706                | 1.093     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.562          | 75   | 10067               | 4.954     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.556          | 117  | 13279               | 6.231     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 6.348          | 43   | 12169               | 3.425     | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.598          | 41   | 3465                | 1.968     | ug/l # | 16       |
| 49) 1,4-Dioxane               | 7.793          | 88   | 91                  | 2.999     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 44929               | 20.865    | ug/l # | 50       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 21013               | 9.583     | ug/l # | 56       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 12169               | 4.992     | ug/l # | 43       |
| 59) 2-Hexanone                | 9.482          | 43   | 171270              | 108.740   | ug/l # | 51       |
| 68) m/p-Xylenes               | 10.305         | 106  | 677                 | 0.250     | ug/l   | 87       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 45716               | 25.429    | ug/l # | 40       |
| 80) 1,3,5-Trimethylbenzene    | 11.451         | 105  | 2453                | 0.461     | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 45716               | 77.505    | ug/l # | 3        |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 361                 | 0.210     | ug/l # | 70       |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 176                 | 0.243     | ug/l   | 85       |
| -----                         |                |      |                     |           |        |          |

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

Quant Time: Feb 09 05:18:54 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X020822W.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 08 07:07:46 2022  
Response via : Initial Calibration

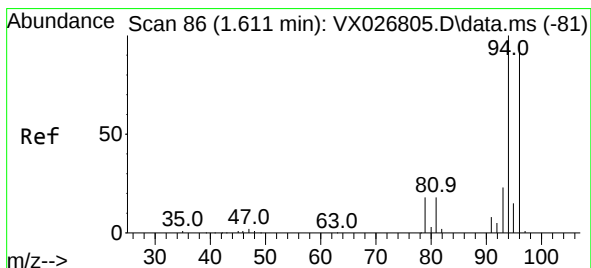
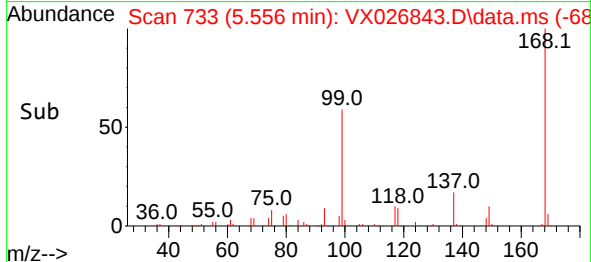
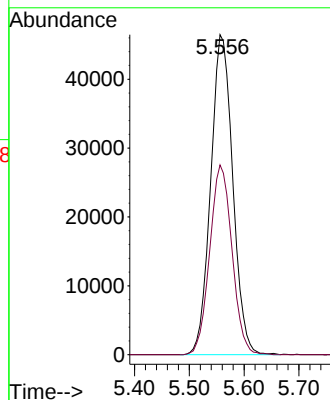
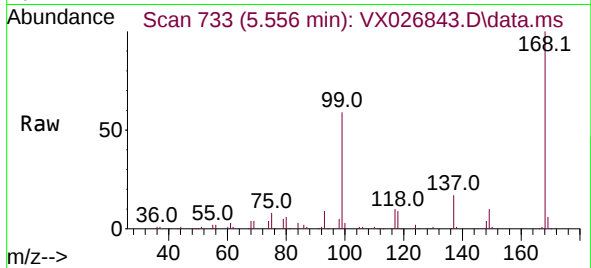




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

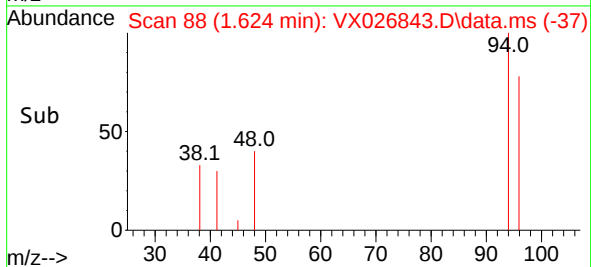
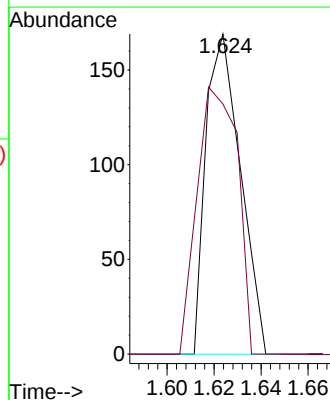
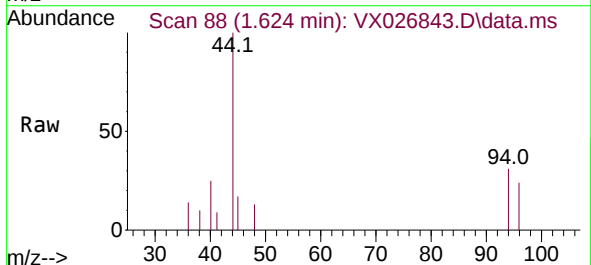
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142539TB

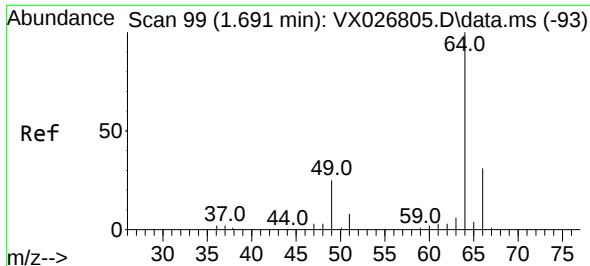
Tgt Ion:168 Resp: 129847  
Ion Ratio Lower Upper  
168 100  
99 59.3 50.3 75.5



#5  
Bromomethane  
Concen: 0.297 ug/l  
RT: 1.624 min Scan# 88  
Delta R.T. 0.012 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion: 94 Resp: 173  
Ion Ratio Lower Upper  
94 100  
96 78.1 75.9 113.9

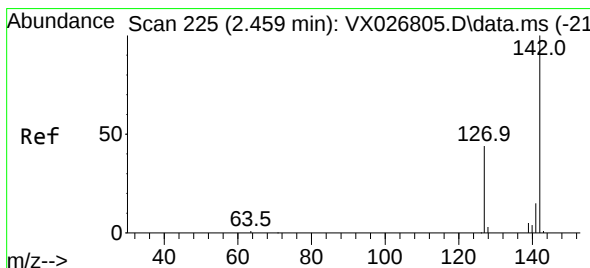
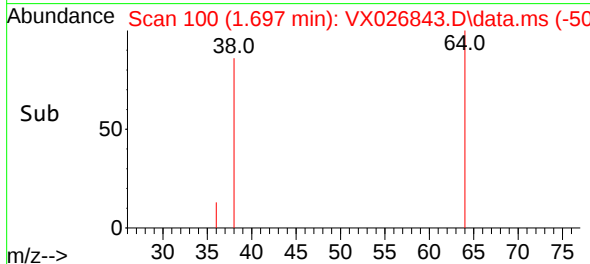
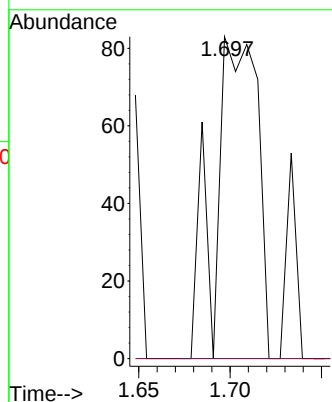
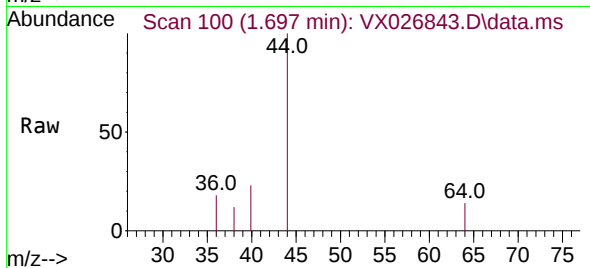




#6  
Chloroethane  
Concen: Below Cal  
RT: 1.697 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

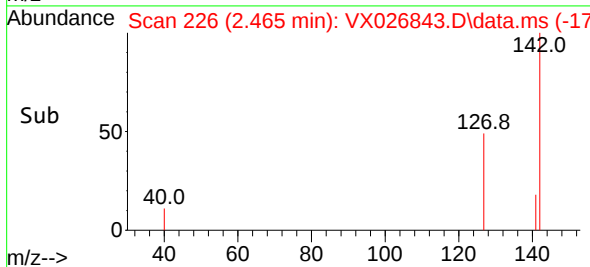
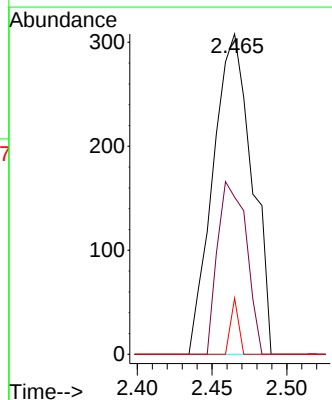
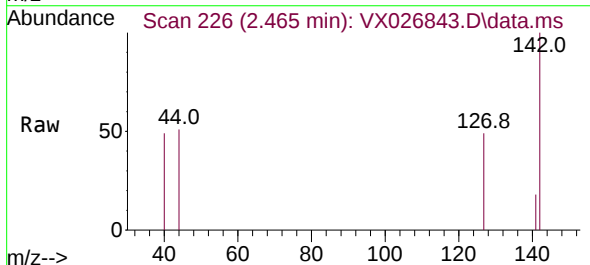
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142539TB

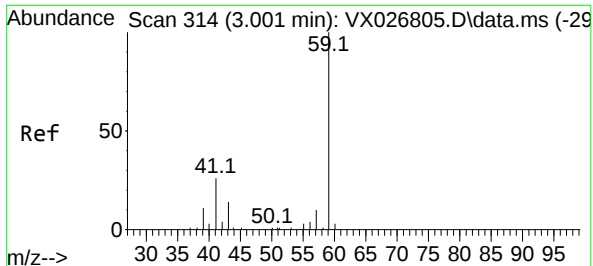
Tgt Ion: 64 Resp: 136  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.2#



#10  
Methyl Iodide  
Concen: 2.543 ug/l  
RT: 2.465 min Scan# 226  
Delta R.T. 0.006 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion: 142 Resp: 557  
Ion Ratio Lower Upper  
142 100  
127 39.7 38.1 57.1  
141 3.6 11.2 16.8#

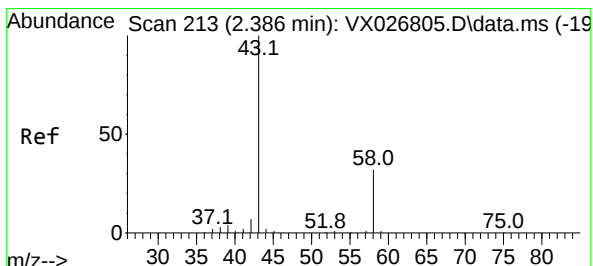
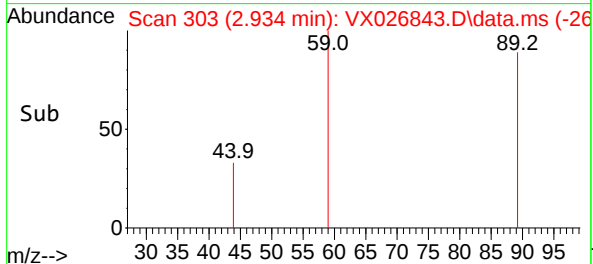
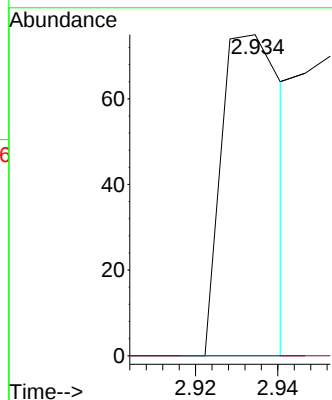
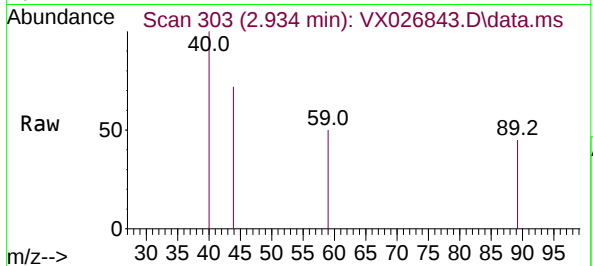




#11  
Tert butyl alcohol  
Concen: 0.277 ug/l  
RT: 2.934 min Scan# 30  
Delta R.T. -0.067 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

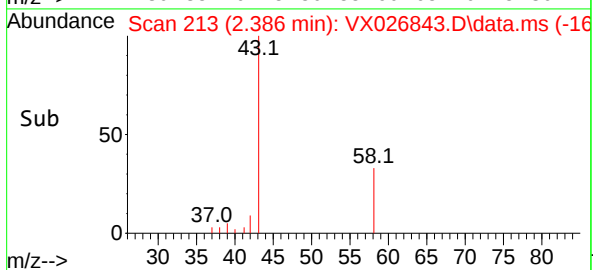
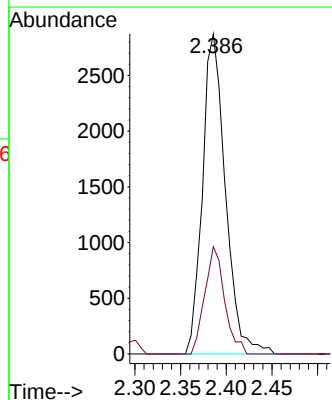
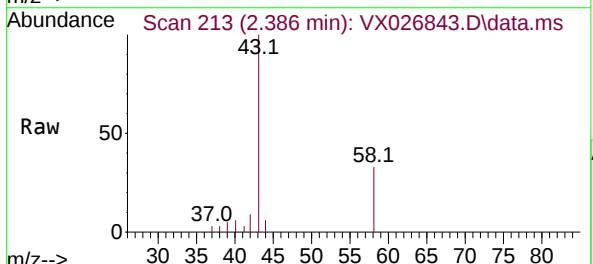
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142539TB

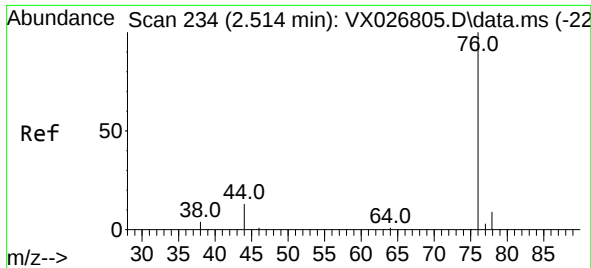
Tgt Ion: 59 Resp: 78  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.2 10.8#



#16  
Acetone  
Concen: 7.343 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.000 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion: 43 Resp: 5027  
Ion Ratio Lower Upper  
43 100  
58 33.5 23.0 34.6

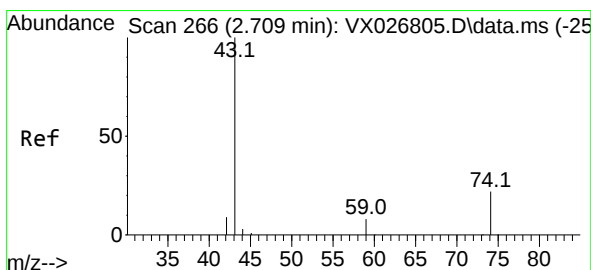
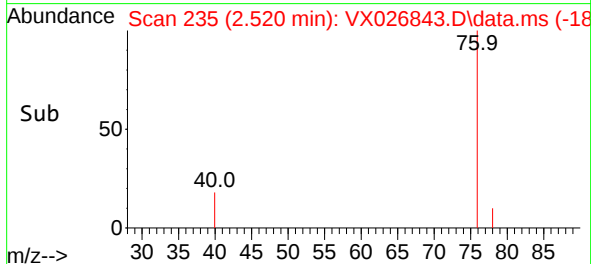
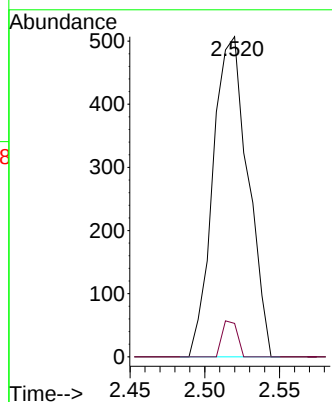
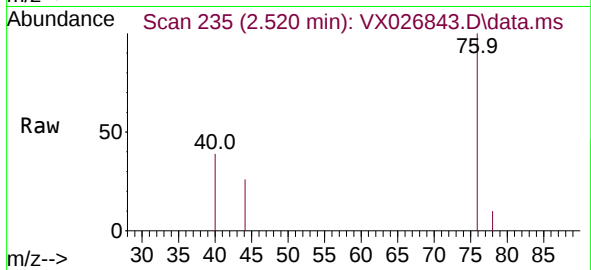




#17  
Carbon Disulfide  
Concen: 0.219 ug/l  
RT: 2.520 min Scan# 211  
Delta R.T. 0.006 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

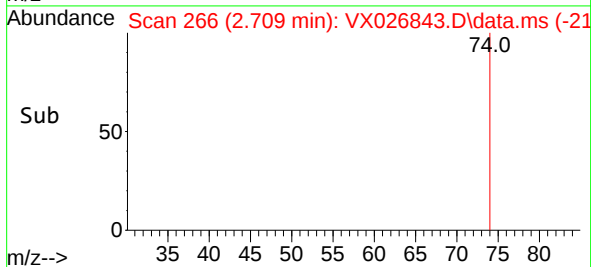
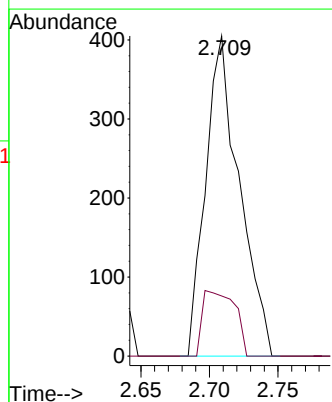
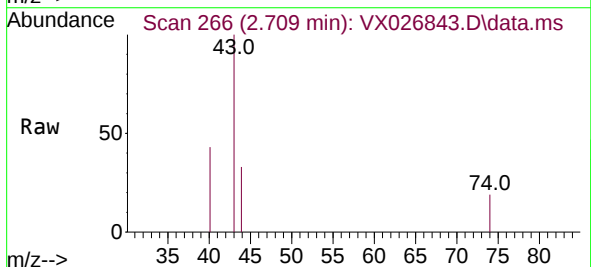
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142539TB

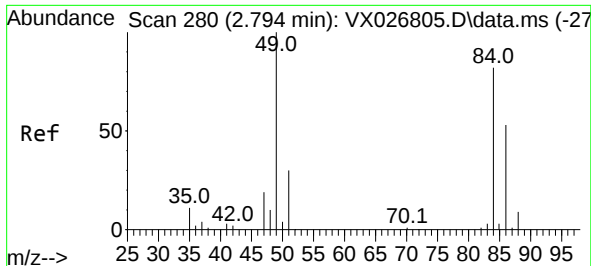
Tgt Ion: 76 Resp: 825  
Ion Ratio Lower Upper  
76 100  
78 10.5 7.5 11.3



#18  
Methyl Acetate  
Concen: 0.351 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.000 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion: 43 Resp: 692  
Ion Ratio Lower Upper  
43 100  
74 19.7 18.3 27.5





#20

Methylene Chloride

Concen: 1.105 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX026843.D

Acq: 09 Feb 2022 00:06

Instrument :

MSVOA\_X

ClientSampleId :

PB142539TB

Tgt Ion: 84 Resp: 1639

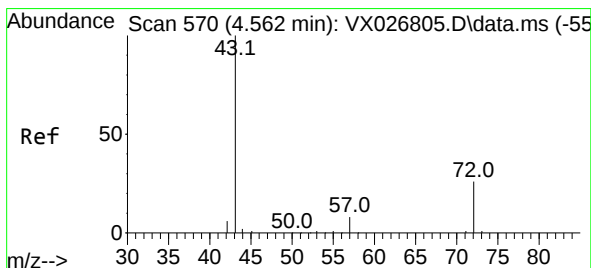
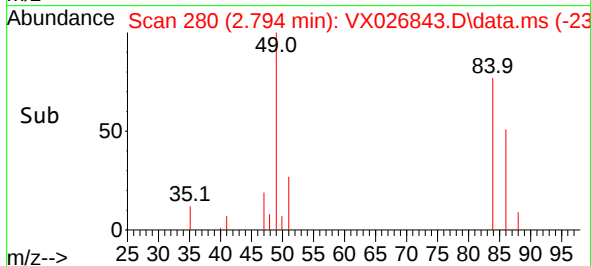
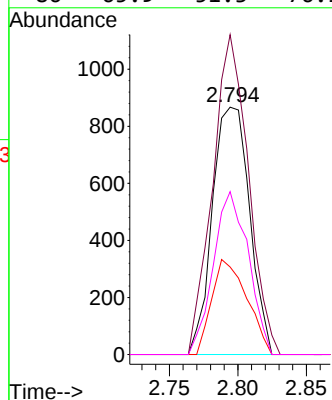
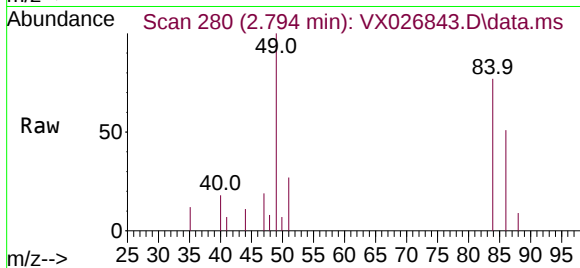
Ion Ratio Lower Upper

84 100

49 129.3 101.5 152.3

51 35.4 31.2 46.8

86 65.9 51.3 76.9



#25

2-Butanone

Concen: 0.939 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.012 min

Lab File: VX026843.D

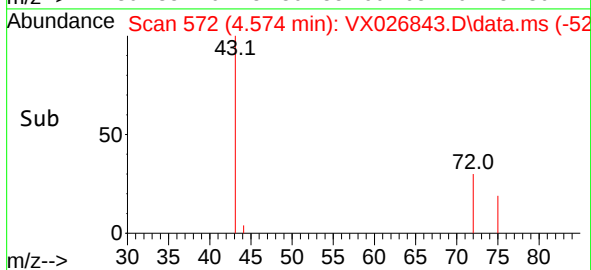
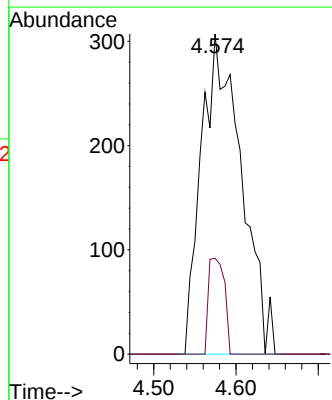
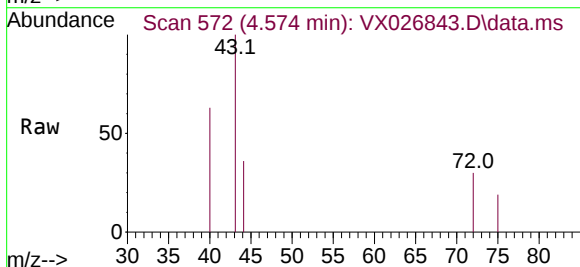
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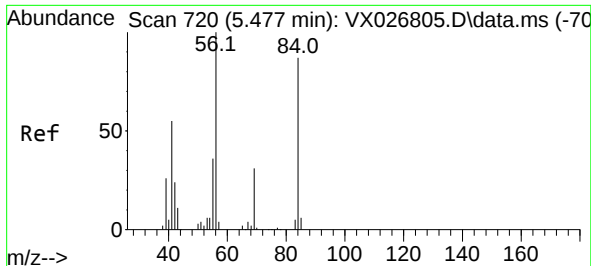
Tgt Ion: 43 Resp: 1036

Ion Ratio Lower Upper

43 100

72 30.0 20.4 30.6

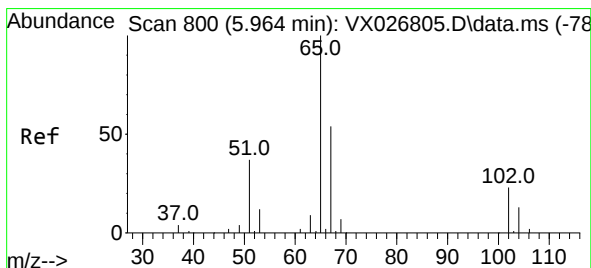
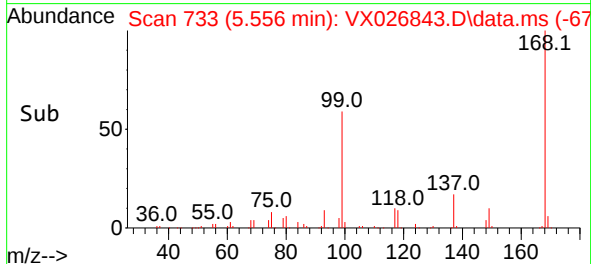
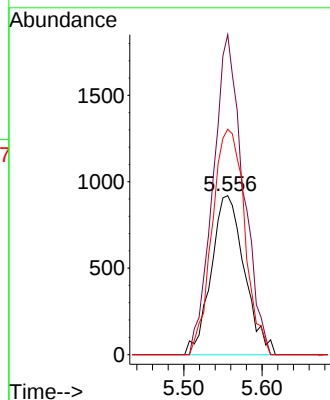
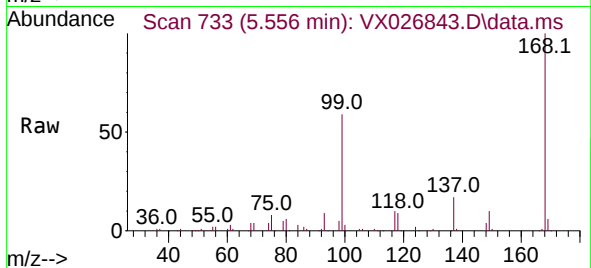




#31  
Cyclohexane  
Concen: 1.093 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

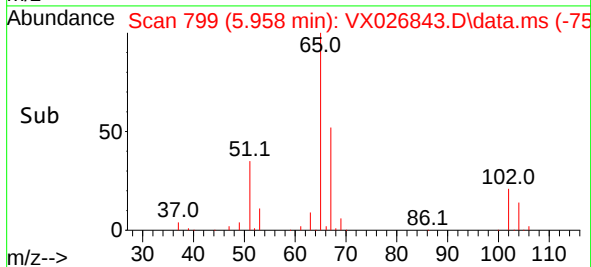
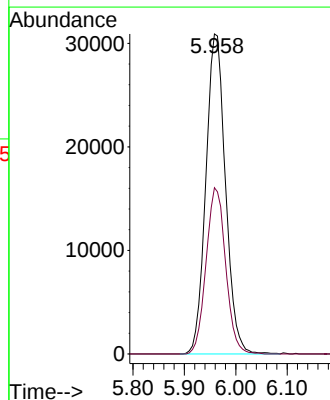
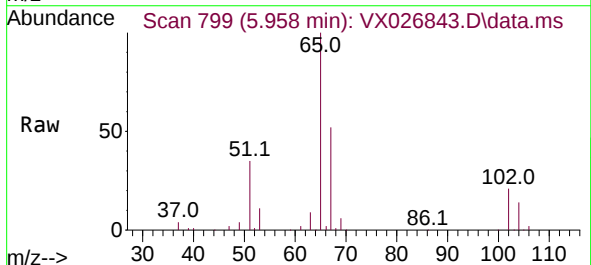
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142539TB

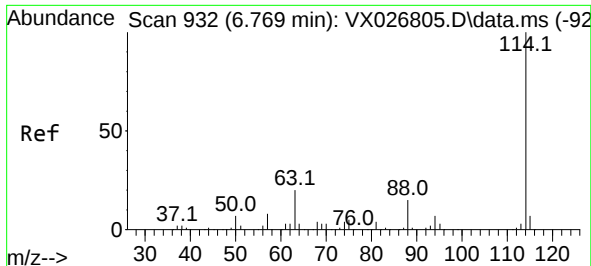
Tgt Ion: 56 Resp: 2706  
Ion Ratio Lower Upper  
56 100  
69 201.2 25.8 38.6#  
84 141.7 68.9 103.3#



#33  
1,2-Dichloroethane-d4  
Concen: 52.571 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.006 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion: 65 Resp: 81941  
Ion Ratio Lower Upper  
65 100  
67 51.8 0.0 100.8

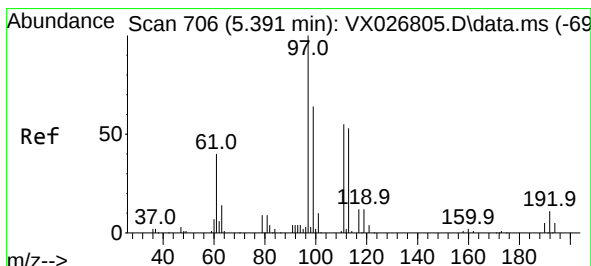
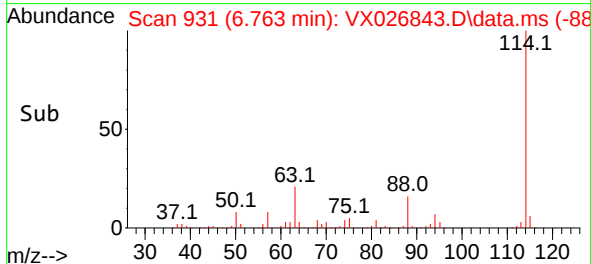
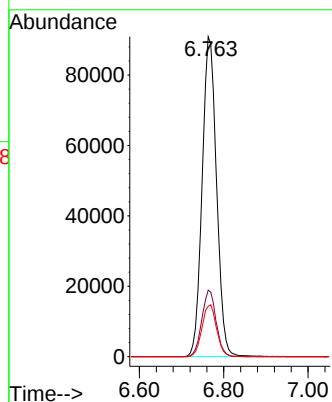
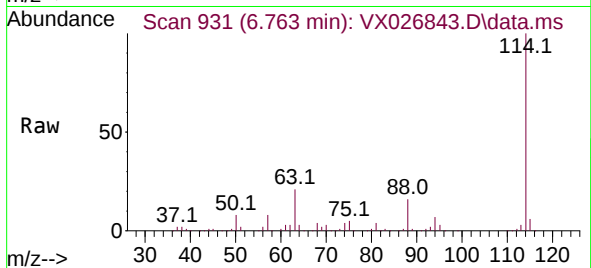




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

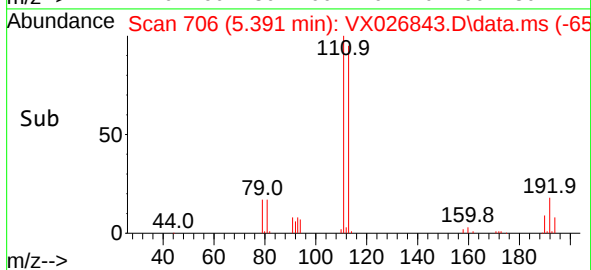
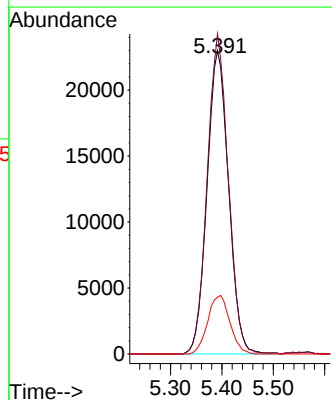
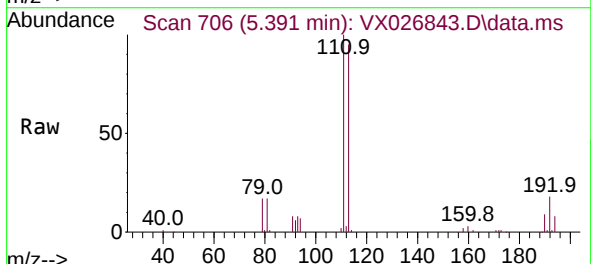
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142539TB

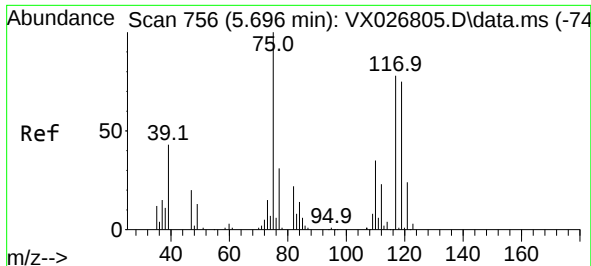
Tgt Ion:114 Resp: 216220  
Ion Ratio Lower Upper  
114 100  
63 20.8 0.0 42.8  
88 15.7 0.0 33.0



#35  
Dibromofluoromethane  
Concen: 51.904 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion:113 Resp: 66862  
Ion Ratio Lower Upper  
113 100  
111 103.3 81.2 121.8  
192 19.8 15.0 22.4

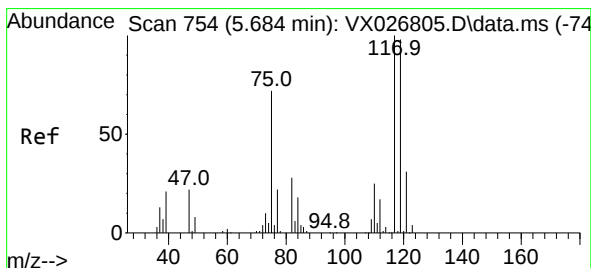
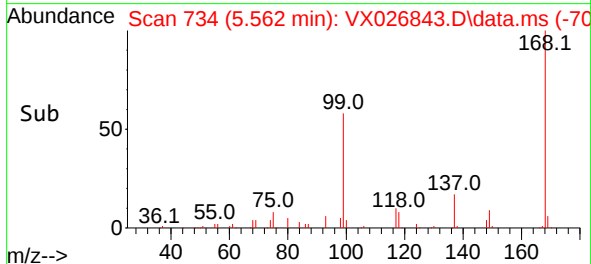
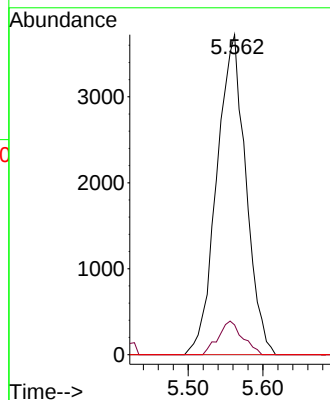
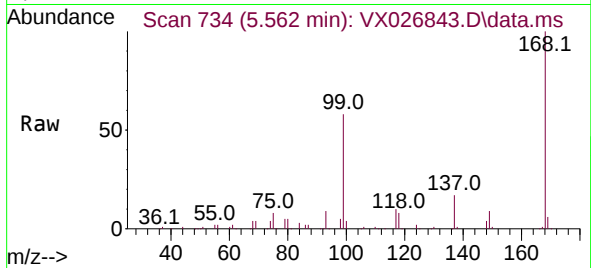




#36  
1,1-Dichloropropene  
Concen: 4.954 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. -0.134 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

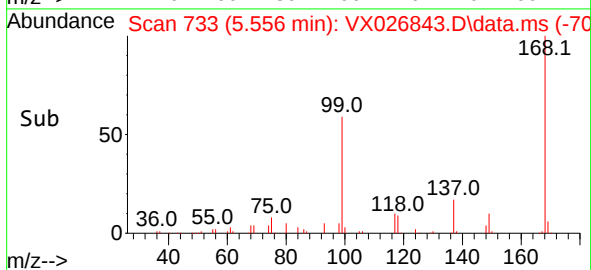
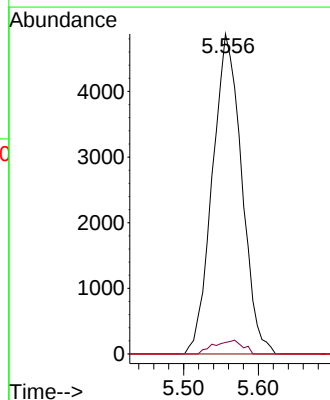
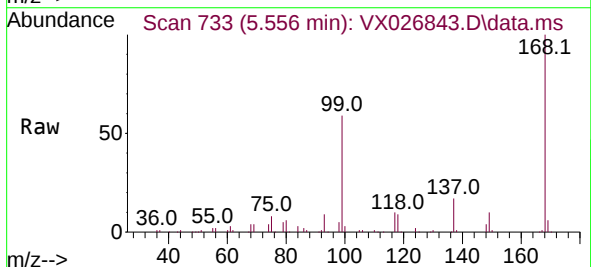
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142539TB

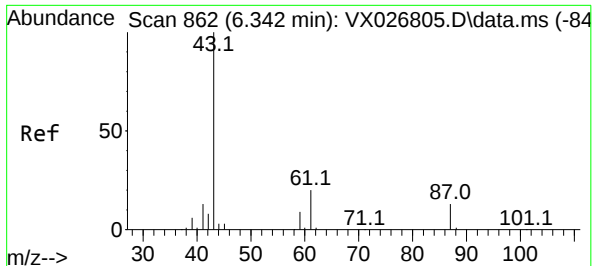
Tgt Ion: 75 Resp: 10067  
Ion Ratio Lower Upper  
75 100  
110 8.8 17.2 51.6#  
77 0.0 24.6 36.8#



#38  
Carbon Tetrachloride  
Concen: 6.231 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.128 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion: 117 Resp: 13279  
Ion Ratio Lower Upper  
117 100  
119 3.6 74.7 112.1#  
121 0.0 25.4 38.0#

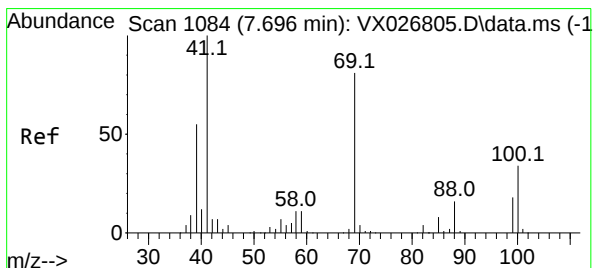
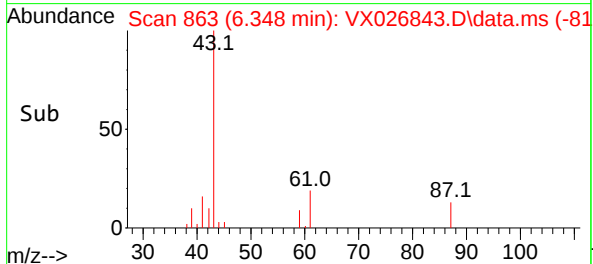
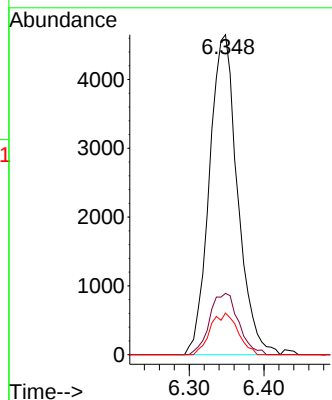
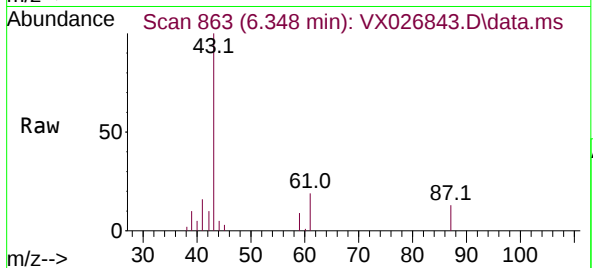




#43  
Isopropyl Acetate  
Concen: 3.425 ug/l  
RT: 6.348 min Scan# 80  
Delta R.T. 0.006 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

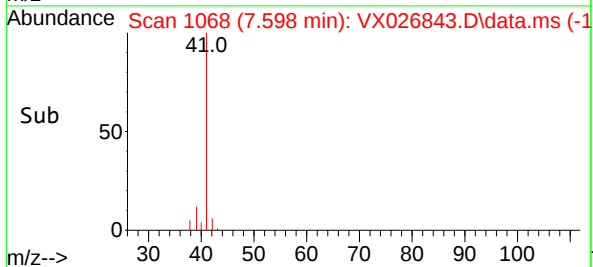
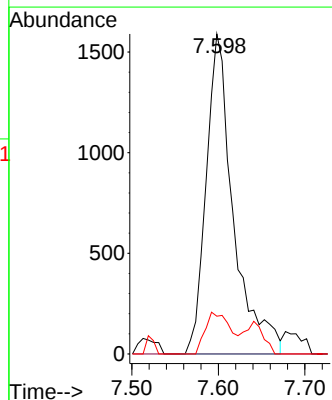
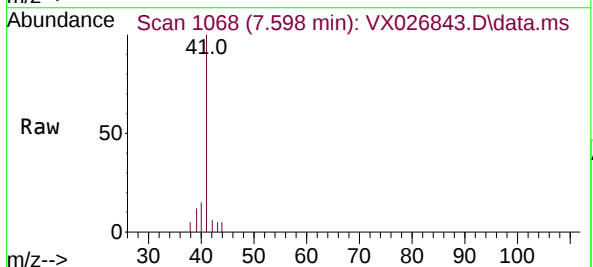
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142539TB

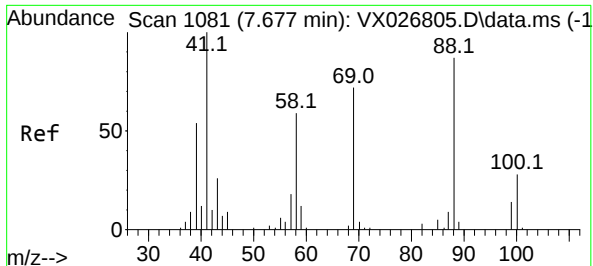
Tgt Ion: 43 Resp: 12169  
Ion Ratio Lower Upper  
43 100  
61 19.7 15.4 23.0  
87 12.7 10.2 15.2



#48  
Methyl methacrylate  
Concen: 1.968 ug/l  
RT: 7.598 min Scan# 1068  
Delta R.T. -0.097 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion: 41 Resp: 3465  
Ion Ratio Lower Upper  
41 100  
69 0.0 62.2 93.4#  
39 0.0 45.4 68.0#





#49

1,4-Dioxane

Concen: 2.999 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.116 min

Lab File: VX026843.D

Acq: 09 Feb 2022 00:06

Instrument :

MSVOA\_X

ClientSampleId :

PB142539TB

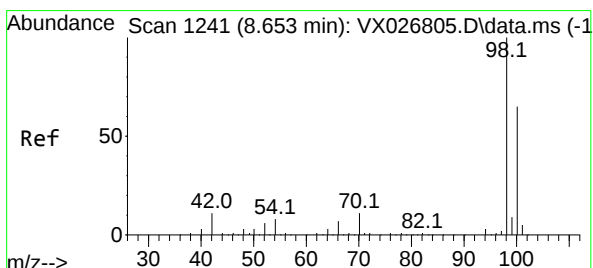
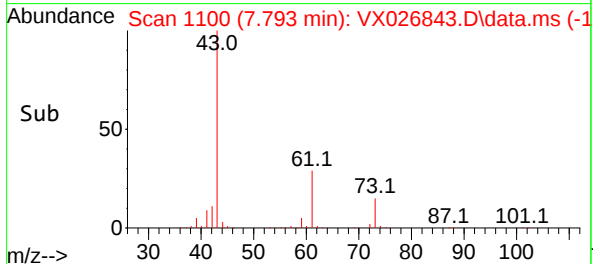
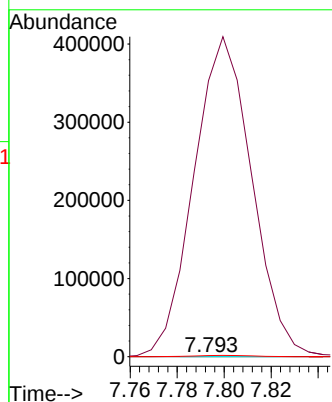
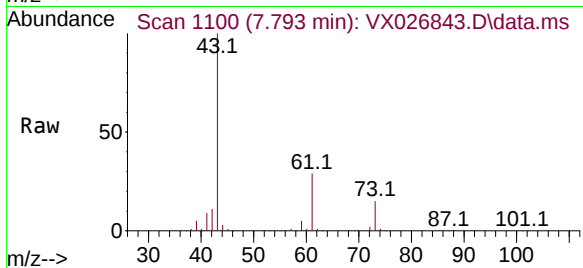
Tgt Ion: 88 Resp: 91

Ion Ratio Lower Upper

88 100

43 779697.8 29.9 44.9#

58 3086.8 57.8 86.6#



#50

Toluene-d8

Concen: 53.470 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX026843.D

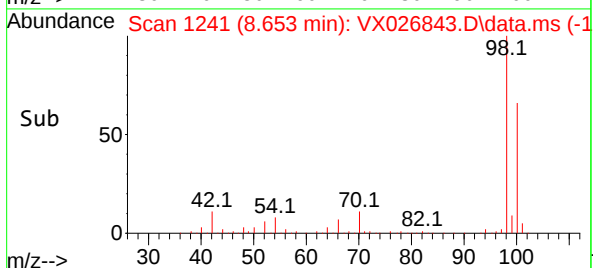
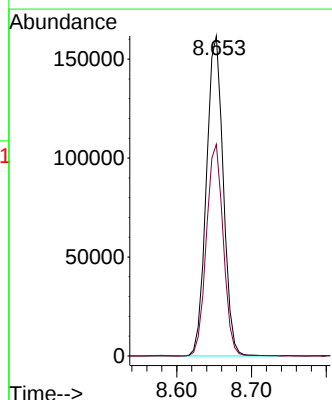
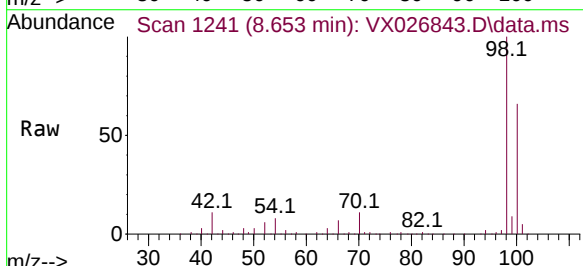
Acq: 09 Feb 2022 00:06

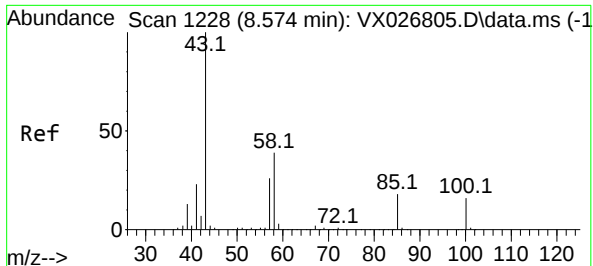
Tgt Ion: 98 Resp: 252837

Ion Ratio Lower Upper

98 100

100 66.3 53.2 79.8

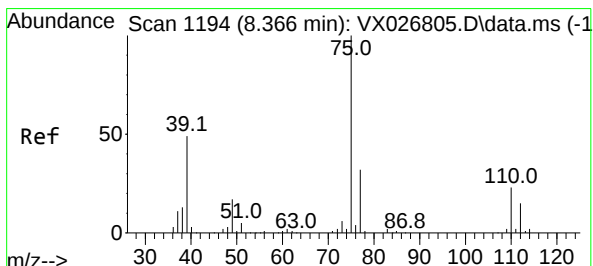
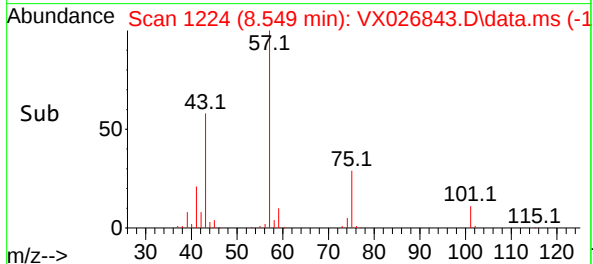
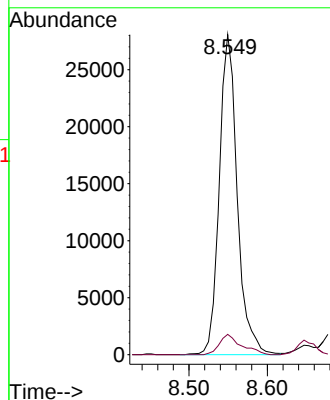
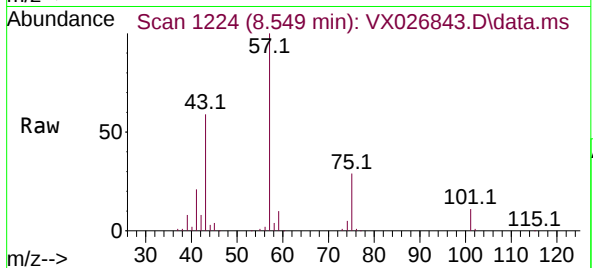




#51  
4-Methyl-2-Pentanone  
Concen: 20.865 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

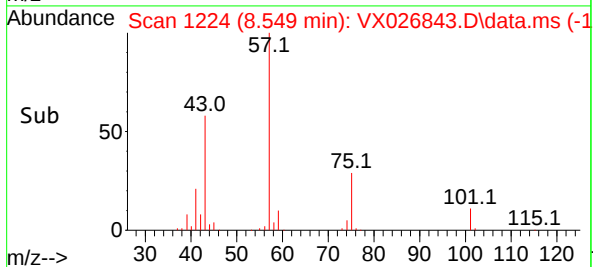
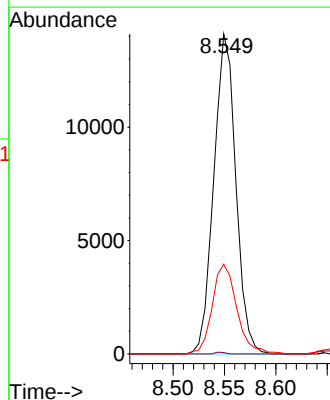
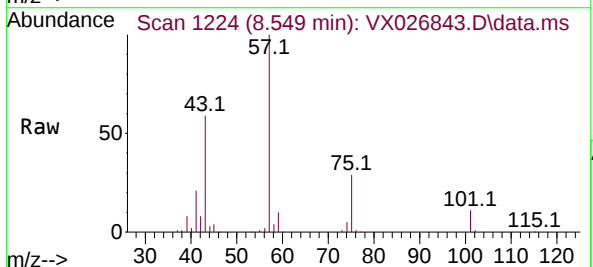
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142539TB

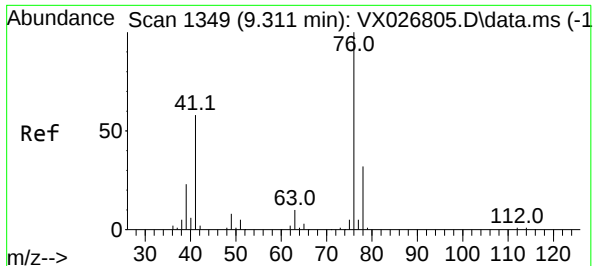
Tgt Ion: 43 Resp: 44929  
Ion Ratio Lower Upper  
43 100  
58 7.7 30.5 45.7#



#54  
cis-1,3-Dichloropropene  
Concen: 9.583 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. 0.183 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion: 75 Resp: 21013  
Ion Ratio Lower Upper  
75 100  
77 0.5 26.2 39.2#  
39 28.0 43.5 65.3#





#57

1,3-Dichloropropane

Concen: 4.992 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.171 min

Lab File: VX026843.D

Acq: 09 Feb 2022 00:06

Instrument :

MSVOA\_X

ClientSampleId :

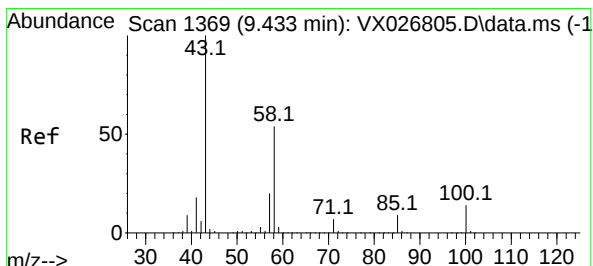
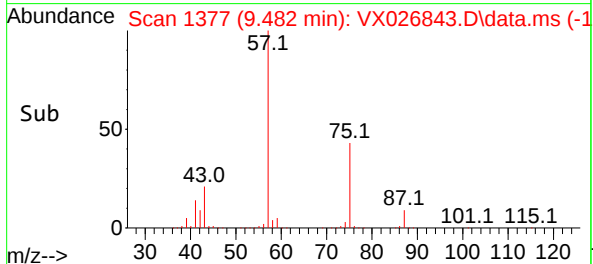
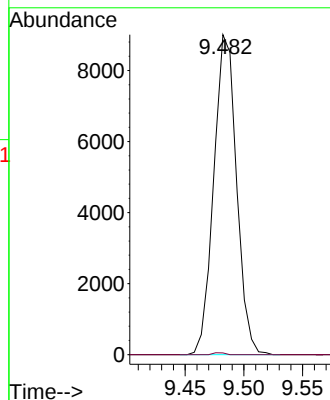
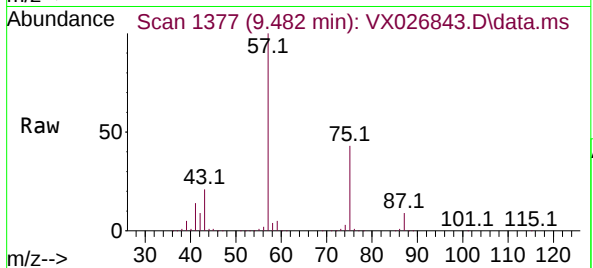
PB142539TB

Tgt Ion: 76 Resp: 12169

Ion Ratio Lower Upper

76 100

78 0.3 25.7 38.5#



#59

2-Hexanone

Concen: 108.740 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.049 min

Lab File: VX026843.D

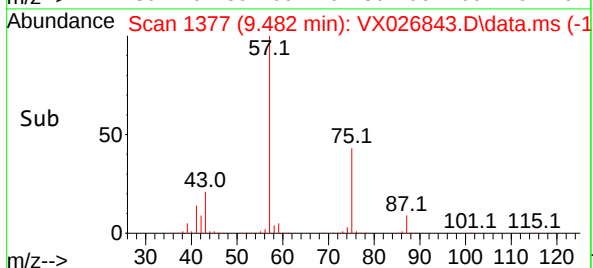
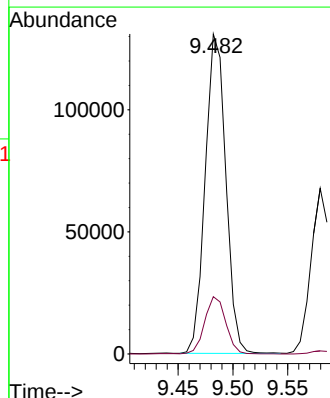
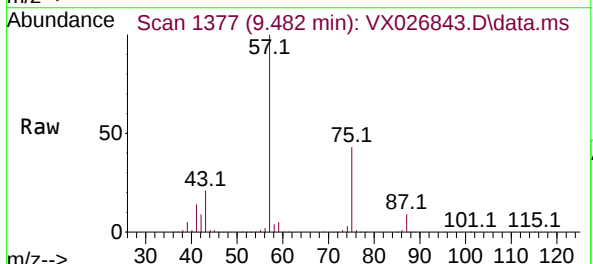
Acq: 09 Feb 2022 00:06

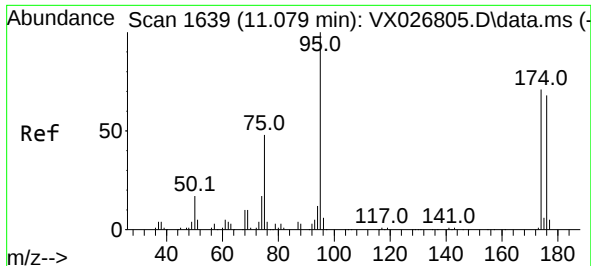
Tgt Ion: 43 Resp: 171270

Ion Ratio Lower Upper

43 100

58 18.4 26.4 79.2#

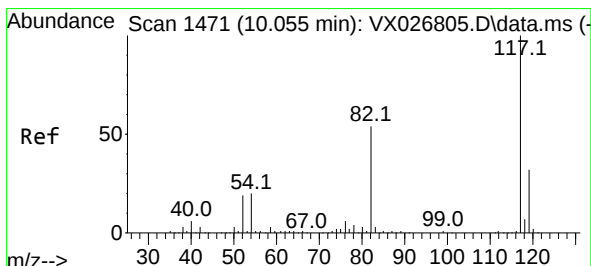
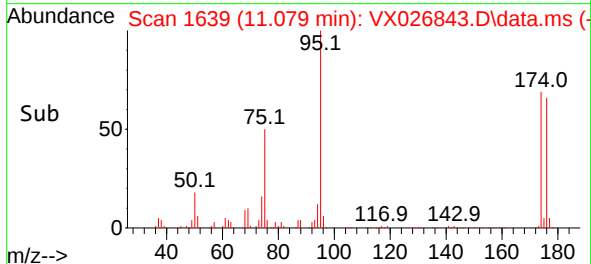
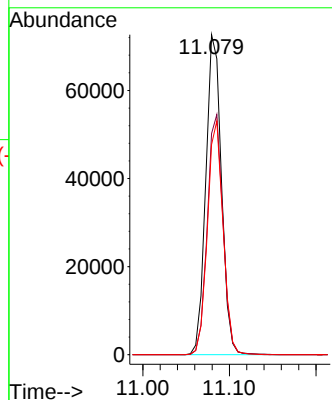
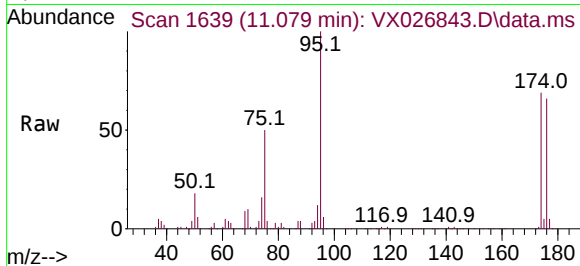




#62  
4-Bromofluorobenzene  
Concen: 54.734 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

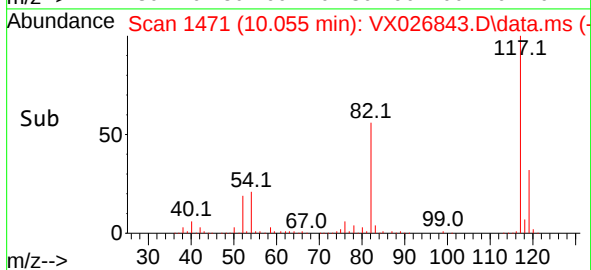
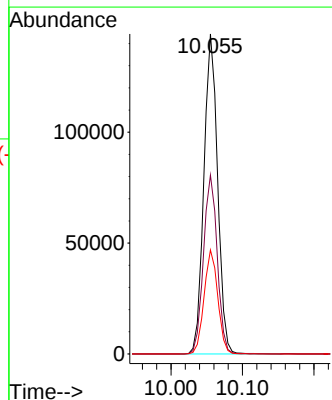
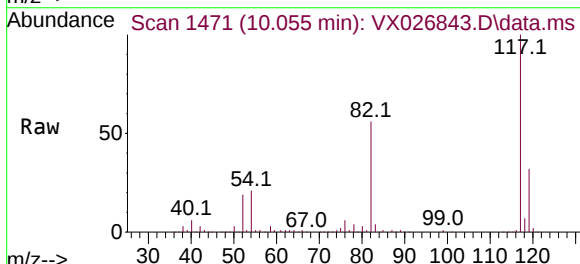
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MSVOA\_X  
ClientSampleId :  
PB142539TB

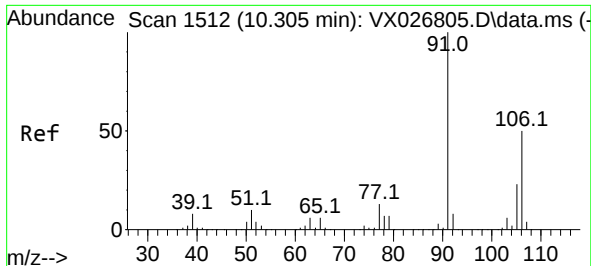
Tgt Ion: 95 Resp: 91121  
Ion Ratio Lower Upper  
95 100  
174 75.4 0.0 148.6  
176 73.0 0.0 141.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion: 117 Resp: 192508  
Ion Ratio Lower Upper  
117 100  
82 55.9 45.2 67.8  
119 32.5 26.2 39.2

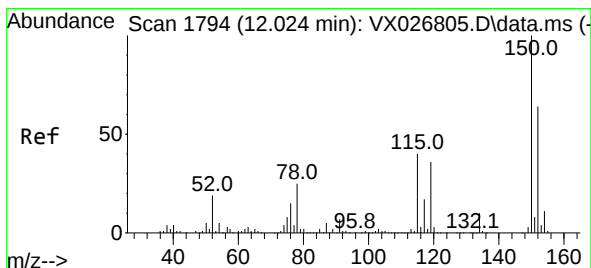
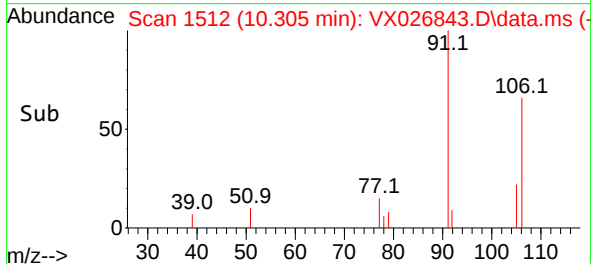
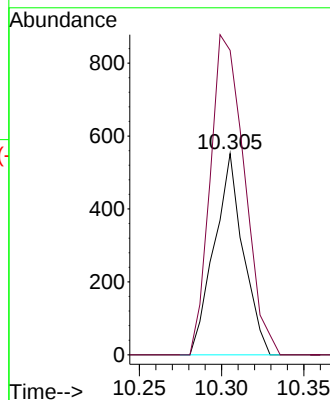
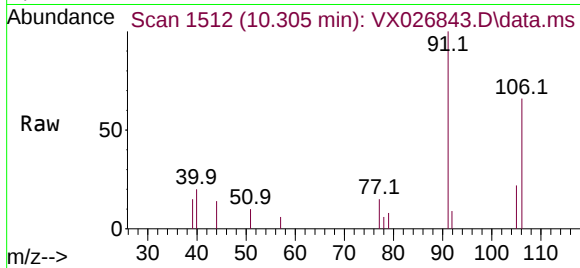




#68  
m/p-Xylenes  
Concen: 0.250 ug/l  
RT: 10.305 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

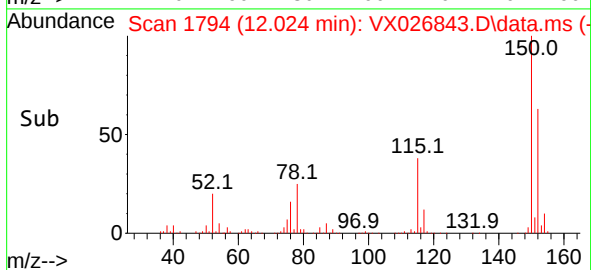
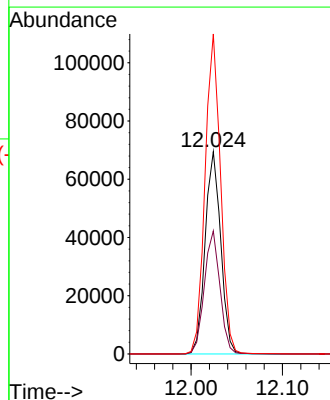
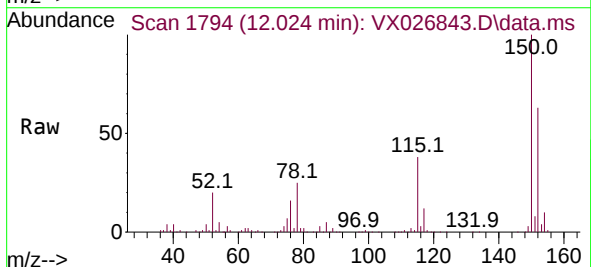
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142539TB

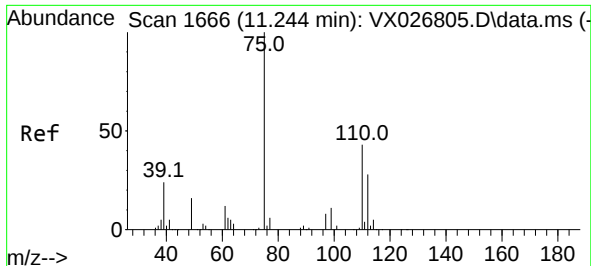
Tgt Ion:106 Resp: 677  
Ion Ratio Lower Upper  
106 100  
91 187.0 165.3 247.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion:152 Resp: 82128  
Ion Ratio Lower Upper  
152 100  
115 60.8 44.2 132.6  
150 157.0 0.0 348.2

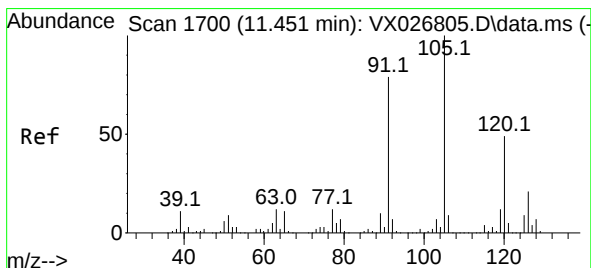
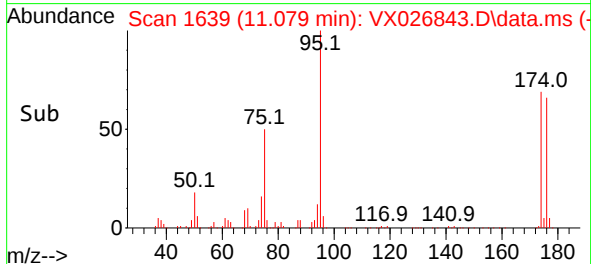
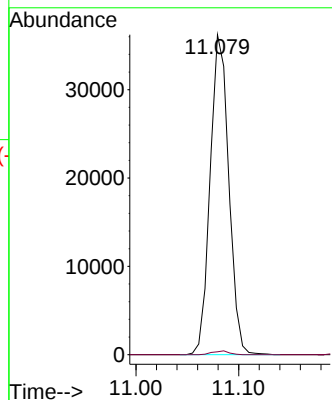
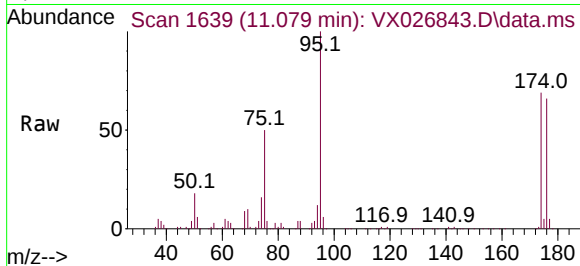




#76  
1,2,3-Trichloropropane  
Concen: 25.429 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. -0.164 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

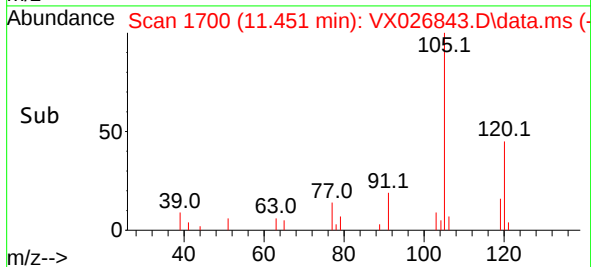
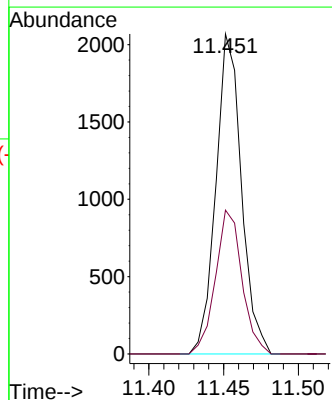
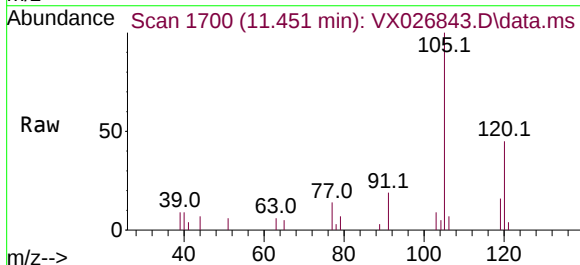
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142539TB

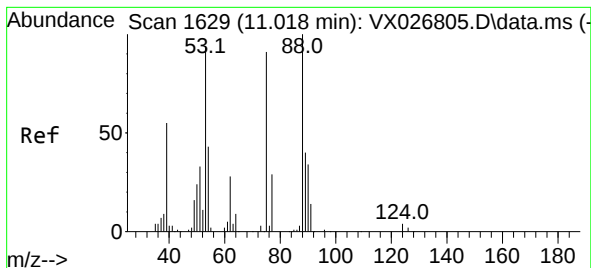
Tgt Ion: 75 Resp: 45716  
Ion Ratio Lower Upper  
75 100  
77 1.0 18.3 54.8#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.461 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion: 105 Resp: 2453  
Ion Ratio Lower Upper  
105 100  
120 46.8 24.0 72.0

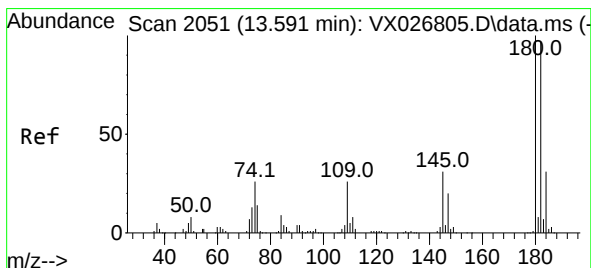
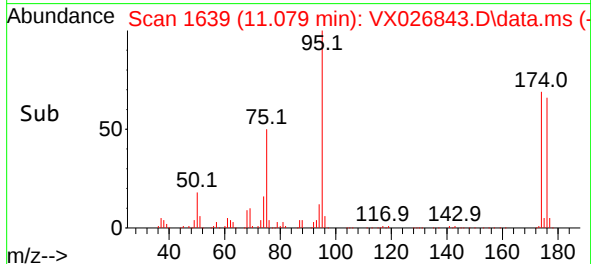
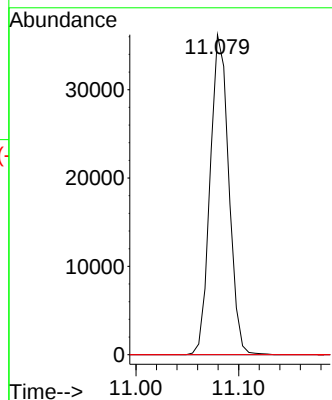
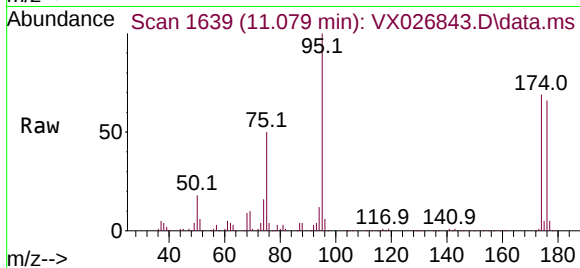




#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.505 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

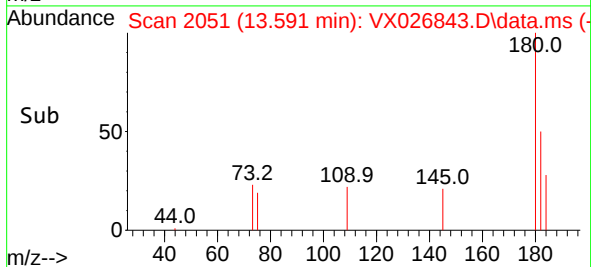
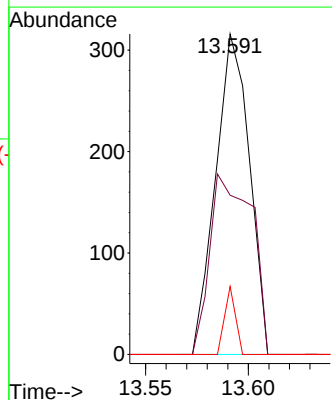
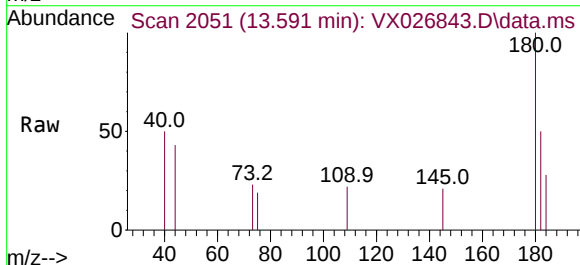
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB142539TB

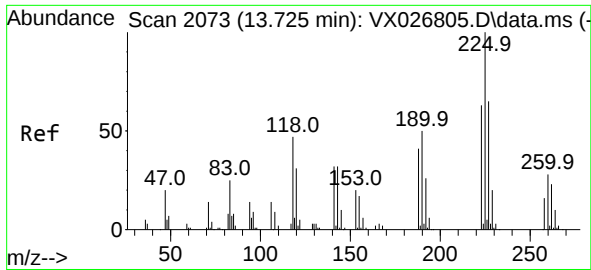
Tgt Ion: 75 Resp: 45716  
Ion Ratio Lower Upper  
75 100  
53 0.0 94.0 141.0#  
89 0.0 37.0 55.4#



#93  
1,2,4-Trichlorobenzene  
Concen: 0.210 ug/l  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.000 min  
Lab File: VX026843.D  
Acq: 09 Feb 2022 00:06

Tgt Ion:180 Resp: 361  
Ion Ratio Lower Upper  
180 100  
182 69.8 46.7 140.0  
145 6.9 16.3 48.8#





#94

Hexachlorobutadiene

Concen: 0.243 ug/l

RT: 13.725 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX026843.D

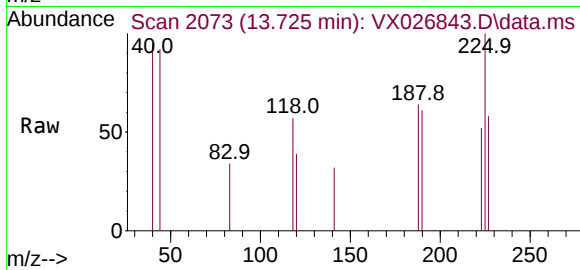
Acq: 09 Feb 2022 00:06

Instrument :

MSVOA\_X

ClientSampleId :

PB142539TB



Tgt Ion:225 Resp: 176

Ion Ratio Lower Upper

225 100

223 70.5 32.0 96.0

227 48.3 32.3 96.9

