

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX083021\  
 Data File : VX024013.D  
 Acq On : 30 Aug 2021 14:42  
 Operator : JC/MD  
 Sample : M3577-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
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Quant Time: Aug 31 03:11:22 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081721W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 17 11:57:51 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.562  | 168  | 162798   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.769  | 114  | 276364   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.061 | 117  | 257975   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.024 | 152  | 110110   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 5.964  | 65    | 118411   | 52.114   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | = 104.220% |      |
| 35) Dibromofluoromethane    | 5.397  | 113   | 90557    | 49.507   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 99.020%  |      |
| 50) Toluene-d8              | 8.653  | 98    | 339340   | 48.742   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | = 97.480%  |      |
| 62) 4-Bromofluorobenzene    | 11.085 | 95    | 124617   | 48.624   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 97.240%  |      |

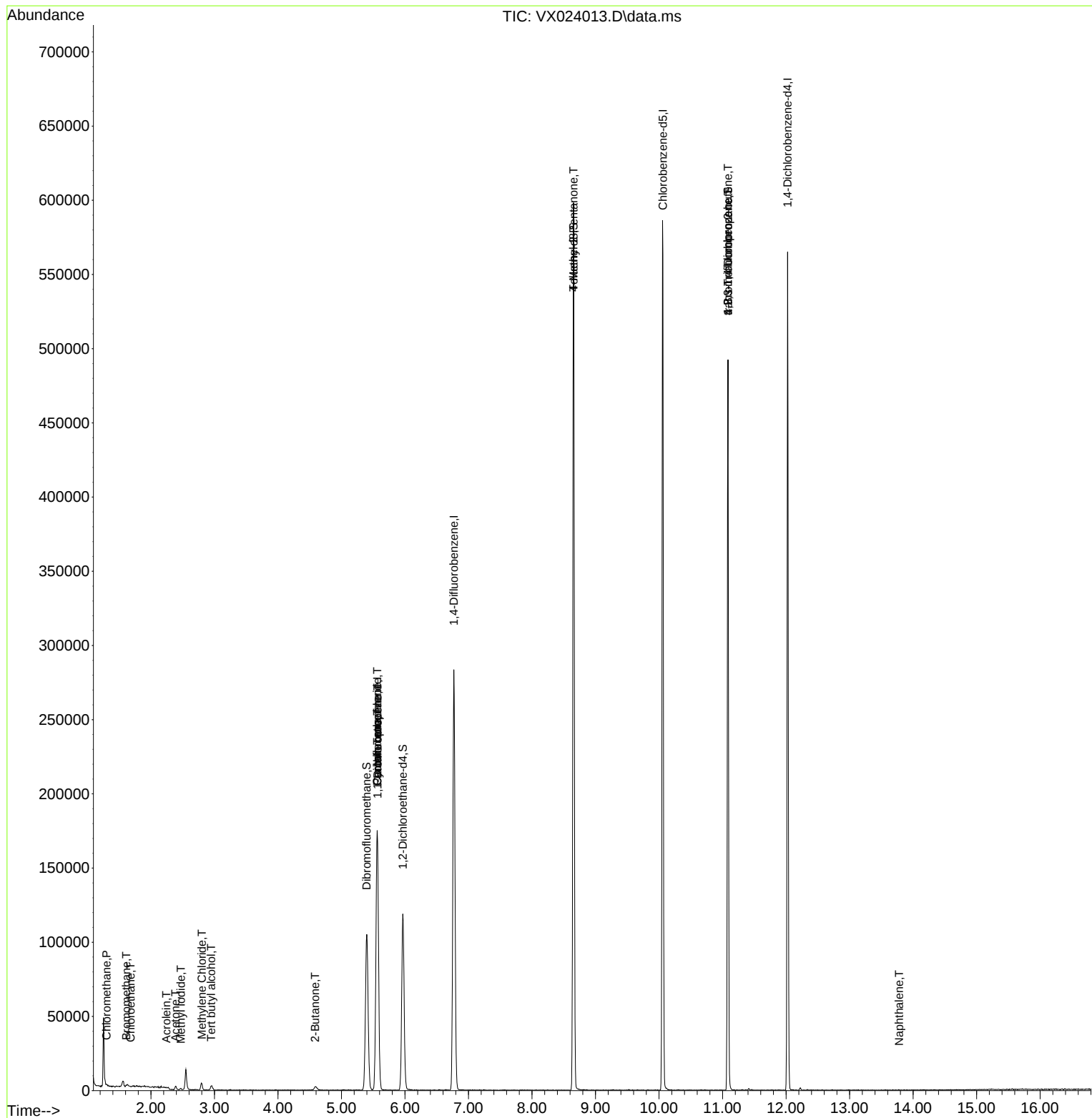
|                               |        |     |        |        |        |    |
|-------------------------------|--------|-----|--------|--------|--------|----|
| Target Compounds              |        |     | Qvalue |        |        |    |
| 3) Chloromethane              | 1.300  | 50  | 496    | 0.263  | ug/l # | 85 |
| 5) Bromomethane               | 1.611  | 94  | 365    | 0.316  | ug/l # | 46 |
| 6) Chloroethane               | 1.678  | 64  | 215    | 2.351  | ug/l # | 43 |
| 10) Methyl Iodide             | 2.471  | 142 | 1032   | 0.454  | ug/l # | 79 |
| 11) Tert butyl alcohol        | 2.946  | 59  | 1945   | 4.233  | ug/l # | 80 |
| 13) Acrolein                  | 2.239  | 56  | 59     | 0.216  | ug/l # | 1  |
| 16) Acetone                   | 2.386  | 43  | 2528   | 2.488  | ug/l # | 85 |
| 20) Methylene Chloride        | 2.800  | 84  | 2009   | 1.035  | ug/l   | 92 |
| 25) 2-Butanone                | 4.586  | 43  | 350    | 0.227  | ug/l # | 45 |
| 31) Cyclohexane               | 5.562  | 56  | 3726   | 1.276  | ug/l # | 25 |
| 36) 1,1-Dichloropropene       | 5.568  | 75  | 13122  | 5.127  | ug/l # | 49 |
| 38) Carbon Tetrachloride      | 5.562  | 117 | 17577  | 6.586  | ug/l # | 16 |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43  | 1802   | 0.566  | ug/l # | 1  |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75  | 66889  | 26.041 | ug/l # | 38 |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75  | 66889  | 76.601 | ug/l # | 12 |
| 95) Naphthalene               | 13.780 | 128 | 138    | 1.299  | ug/l # | 69 |

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX083021\  
Data File : VX024013.D  
Acq On : 30 Aug 2021 14:42  
Operator : JC/MD  
Sample : M3577-03  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampled :  
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Quant Time: Aug 31 03:11:22 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081721W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 17 11:57:51 2021  
Response via : Initial Calibration

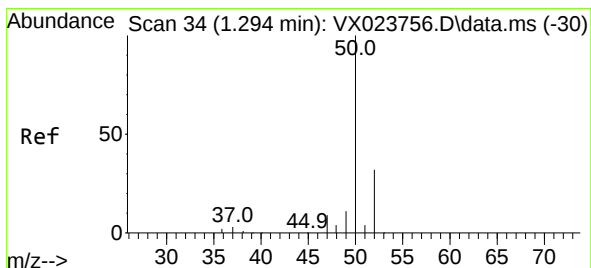
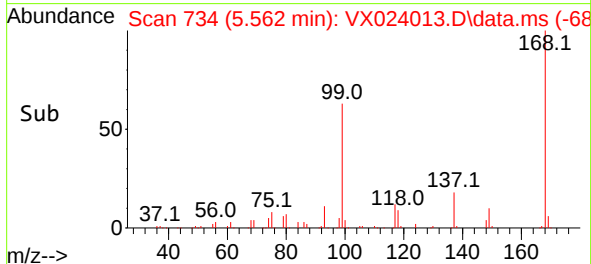
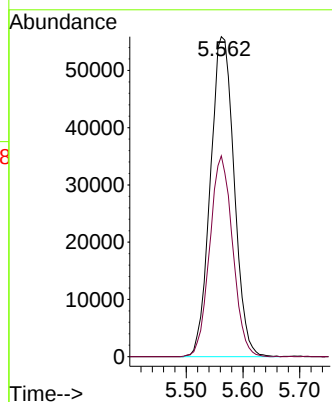
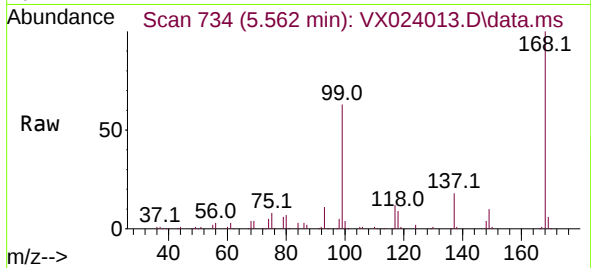




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

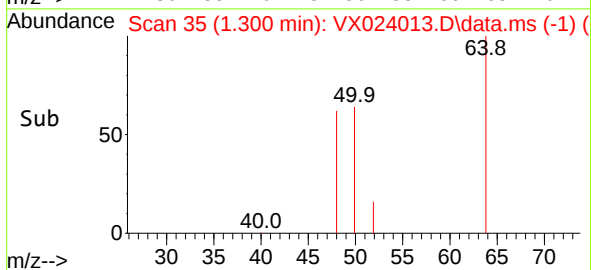
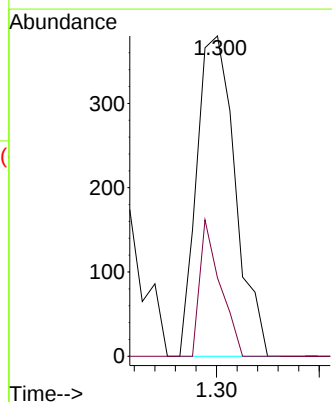
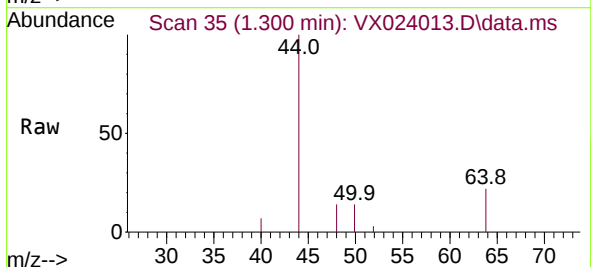
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MSVOA\_X  
ClientSampleId :  
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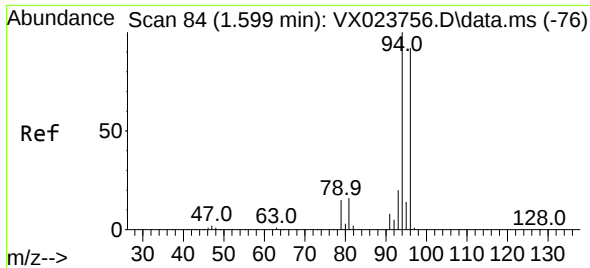
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Ion Ratio Lower Upper  
168 100  
99 62.7 45.8 68.6



#3  
Chloromethane  
Concen: 0.263 ug/l  
RT: 1.300 min Scan# 35  
Delta R.T. 0.006 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

Tgt Ion: 50 Resp: 496  
Ion Ratio Lower Upper  
50 100  
52 24.5 26.4 39.6#

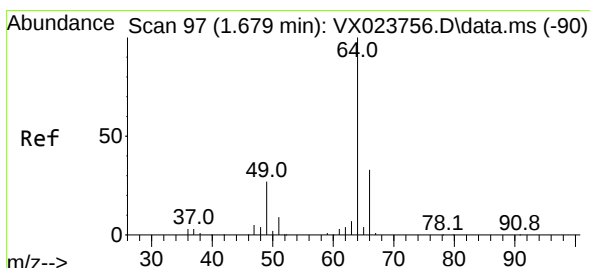
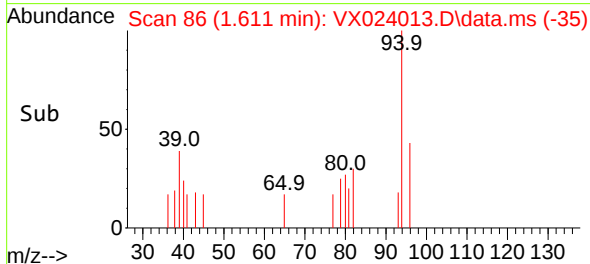
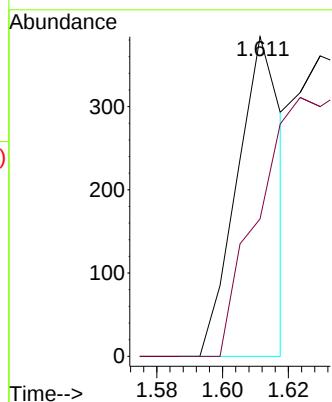
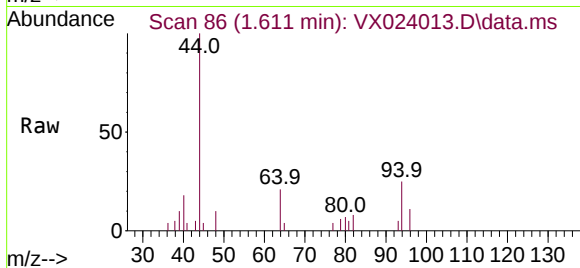




#5  
Bromomethane  
Concen: 0.316 ug/l  
RT: 1.611 min Scan# 86  
Delta R.T. 0.012 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

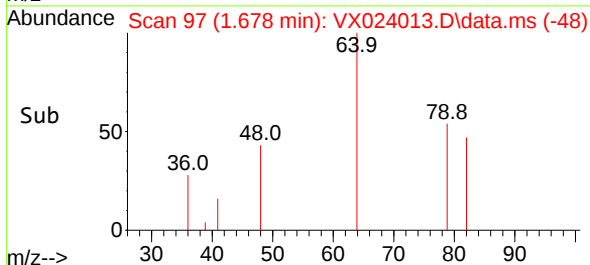
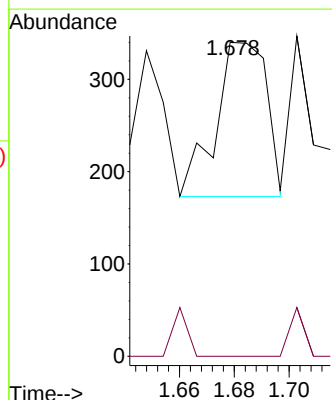
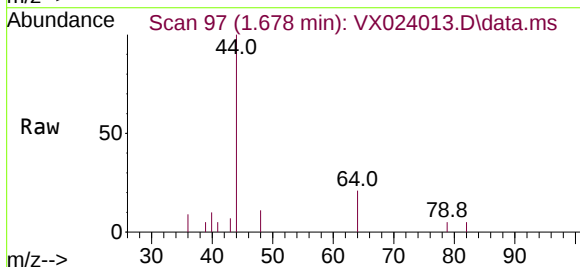
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ClientSampleId :  
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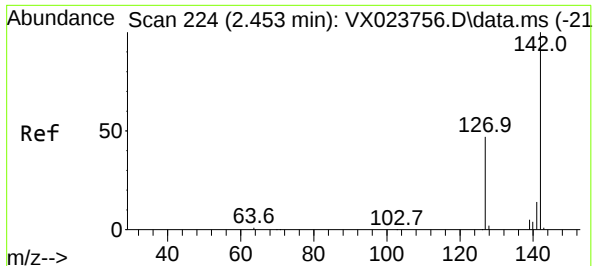
Tgt Ion: 94 Resp: 365  
Ion Ratio Lower Upper  
94 100  
96 43.0 76.4 114.6#



#6  
Chloroethane  
Concen: 2.351 ug/l  
RT: 1.678 min Scan# 97  
Delta R.T. -0.001 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

Tgt Ion: 64 Resp: 215  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#

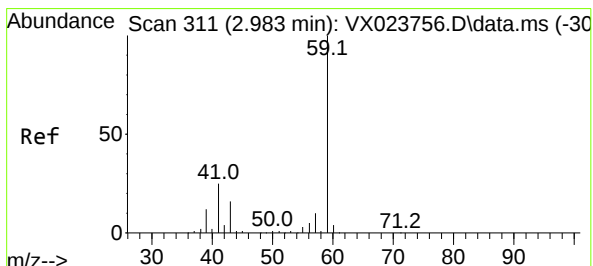
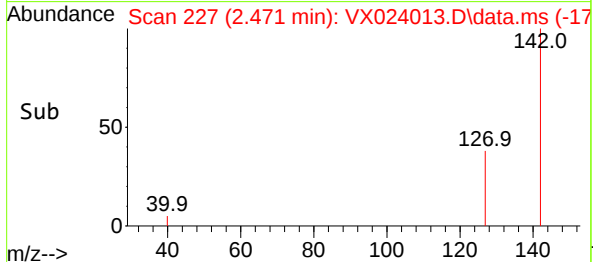
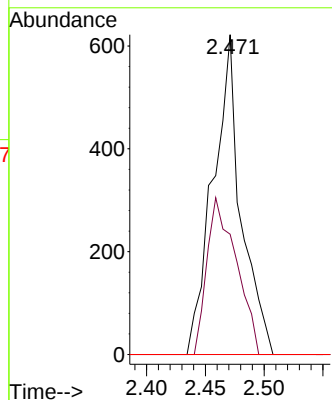
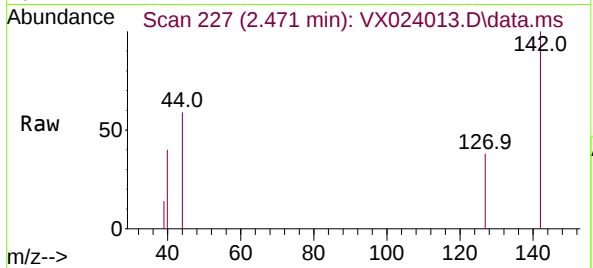




#10  
Methyl Iodide  
Concen: 0.454 ug/l  
RT: 2.471 min Scan# 227  
Delta R.T. 0.018 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

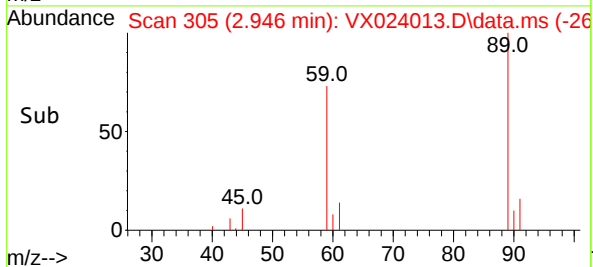
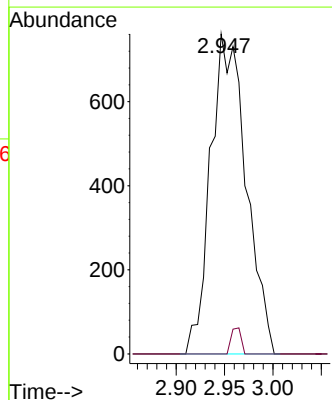
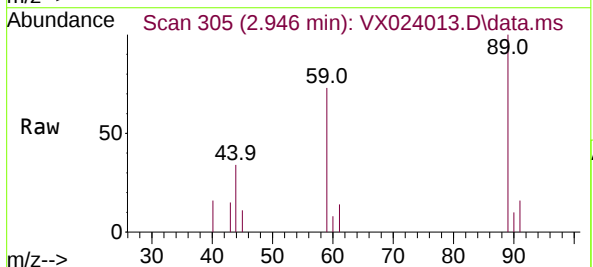
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MSVOA\_X  
ClientSampled :  
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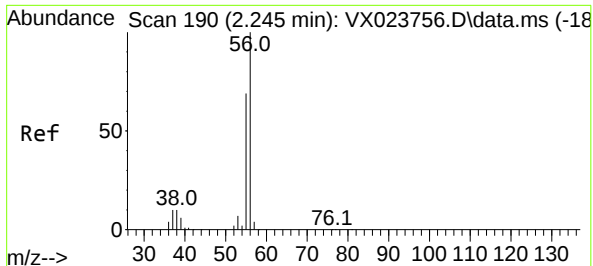
Tgt Ion:142 Resp: 1032  
Ion Ratio Lower Upper  
142 100  
127 51.6 33.3 49.9#  
141 0.0 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 4.233 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. -0.037 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

Tgt Ion: 59 Resp: 1945  
Ion Ratio Lower Upper  
59 100  
57 2.3 7.8 11.8#

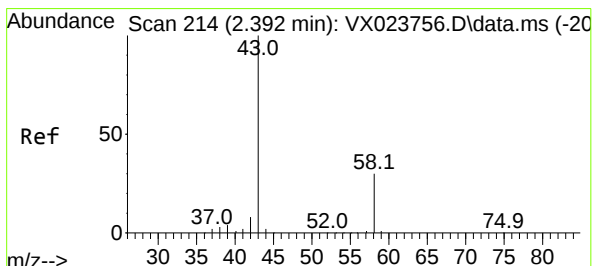
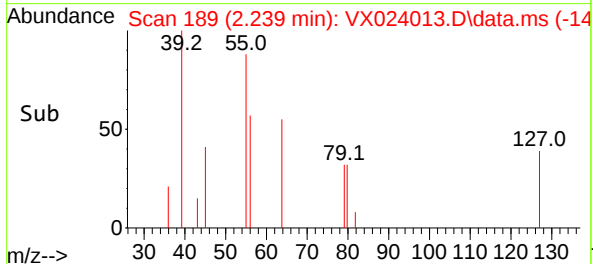
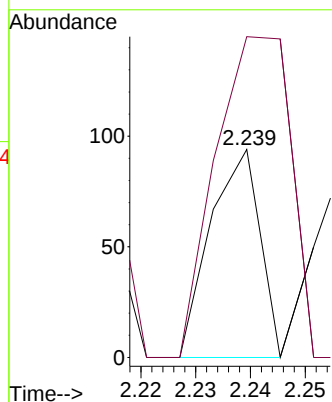
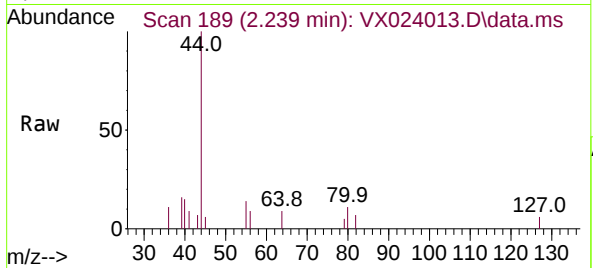




#13  
Acrolein  
Concen: 0.216 ug/l  
RT: 2.239 min Scan# 189  
Delta R.T. -0.006 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

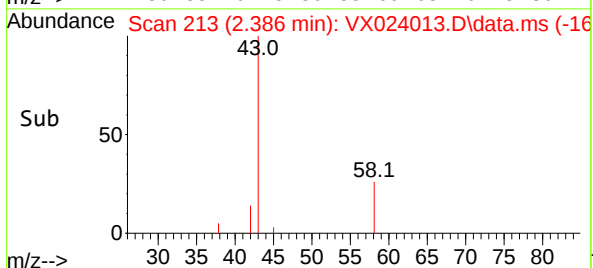
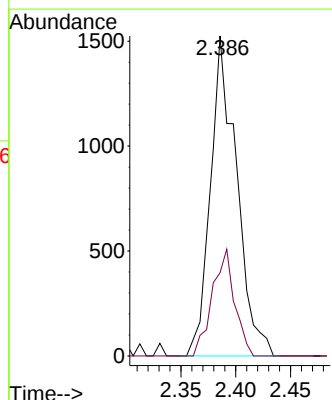
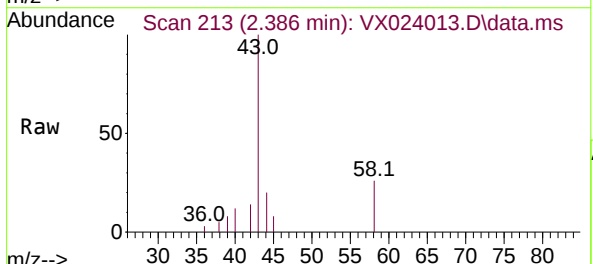
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MSVOA\_X  
ClientSampled :  
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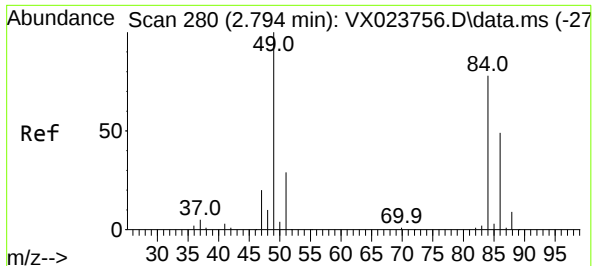
Tgt Ion: 56 Resp: 59  
Ion Ratio Lower Upper  
56 100  
55 233.9 56.4 84.6#



#16  
Acetone  
Concen: 2.488 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

Tgt Ion: 43 Resp: 2528  
Ion Ratio Lower Upper  
43 100  
58 26.0 27.8 41.8#





#20

Methylene Chloride

Concen: 1.035 ug/l

RT: 2.800 min Scan# 281

Delta R.T. 0.006 min

Lab File: VX024013.D

Acq: 30 Aug 2021 14:42

Tgt Ion: 84 Resp: 2009

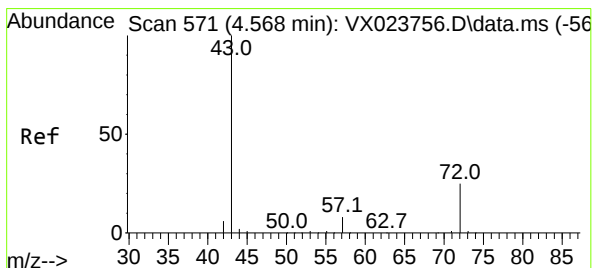
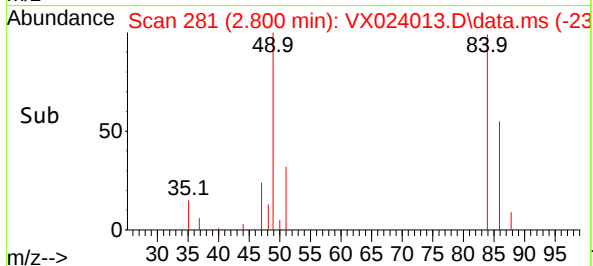
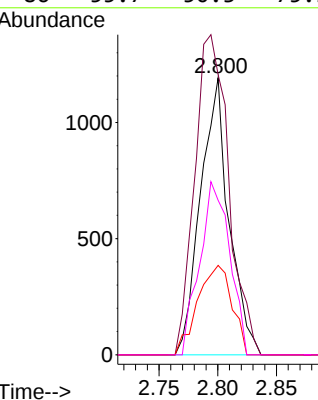
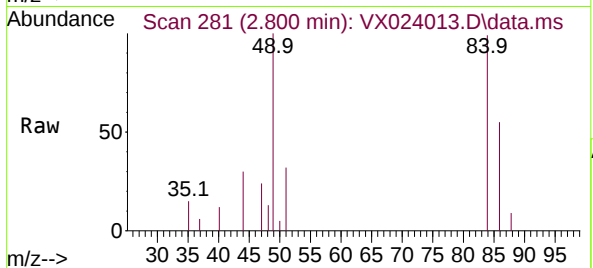
Ion Ratio Lower Upper

84 100

49 101.1 88.6 132.8

51 32.3 27.0 40.6

86 55.7 50.3 75.5



#25

2-Butanone

Concen: 0.227 ug/l

RT: 4.586 min Scan# 574

Delta R.T. 0.018 min

Lab File: VX024013.D

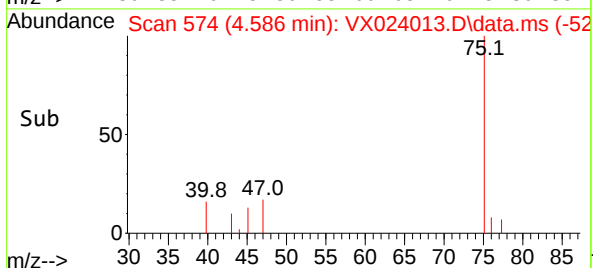
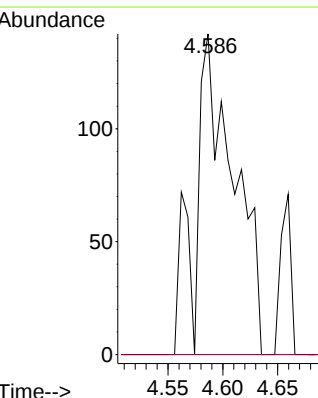
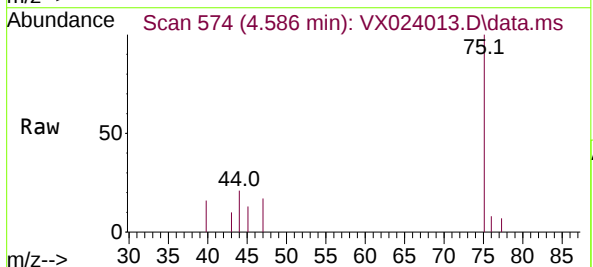
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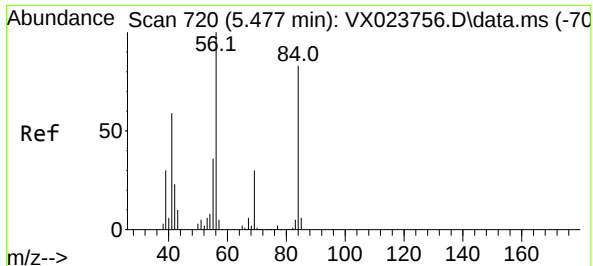
Tgt Ion: 43 Resp: 350

Ion Ratio Lower Upper

43 100

72 0.0 23.7 35.5#

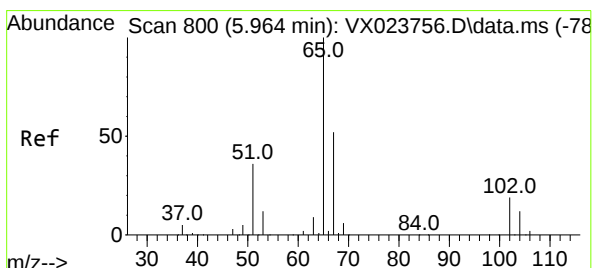
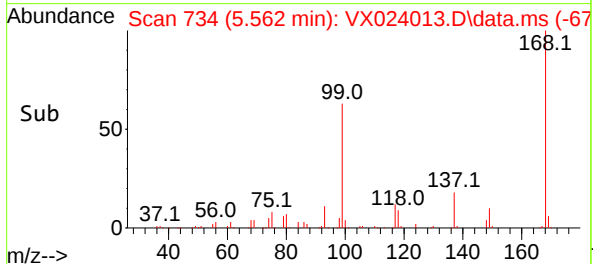
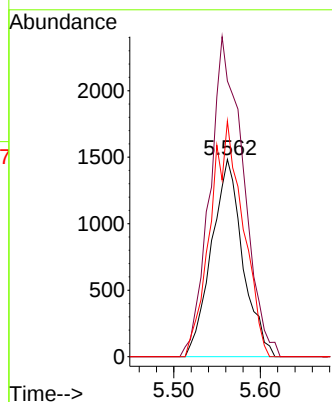
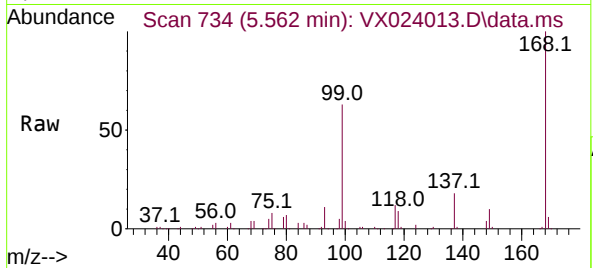




#31  
Cyclohexane  
Concen: 1.276 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.085 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

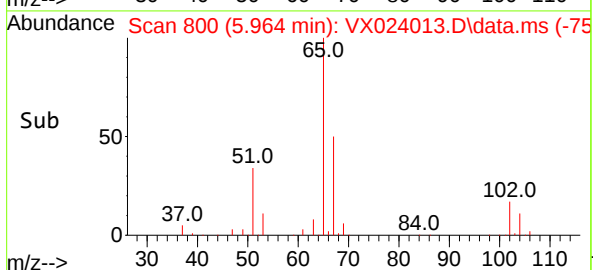
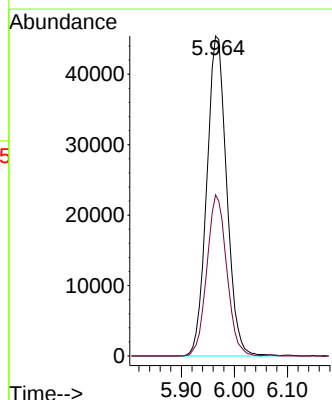
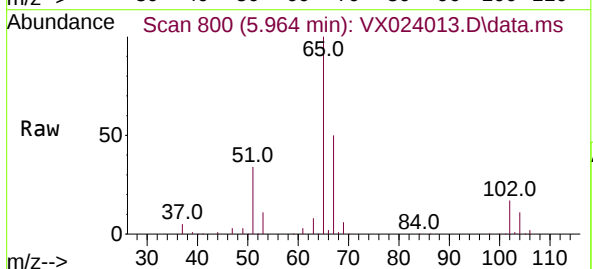
Instrument :  
MSVOA\_X  
ClientSampleId :  
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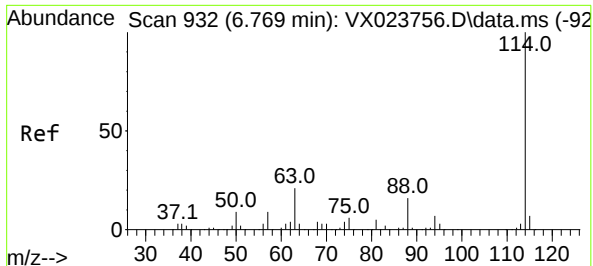
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Ion Ratio Lower Upper  
56 100  
69 139.8 25.3 37.9#  
84 119.5 71.4 107.0#



#33  
1,2-Dichloroethane-d4  
Concen: 52.114 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

Tgt Ion: 65 Resp: 118411  
Ion Ratio Lower Upper  
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67 50.3 0.0 105.4

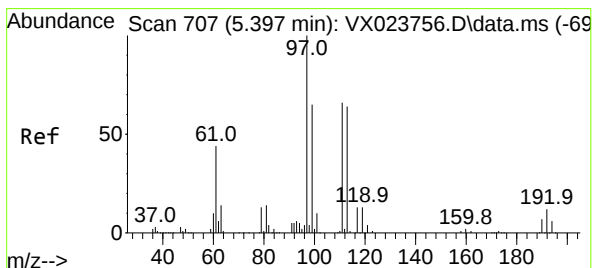
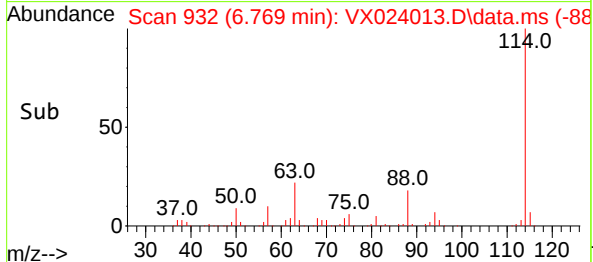
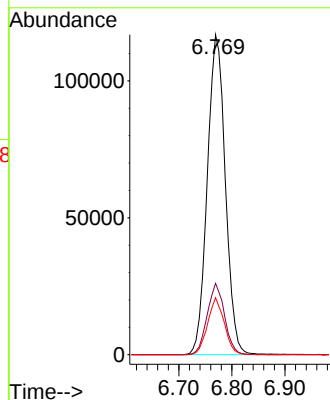
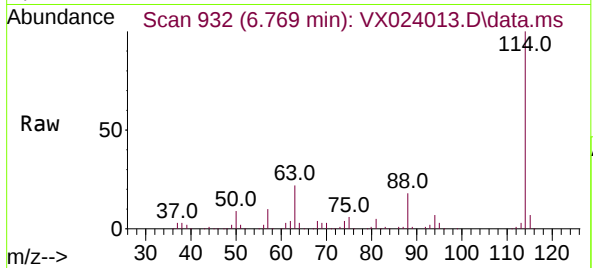




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. -0.000 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

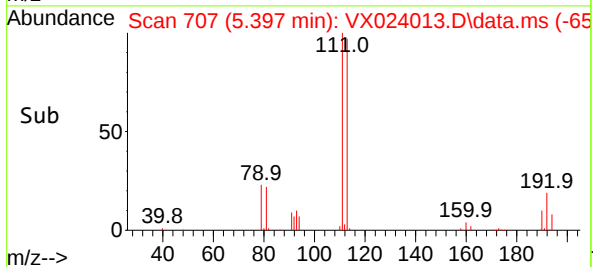
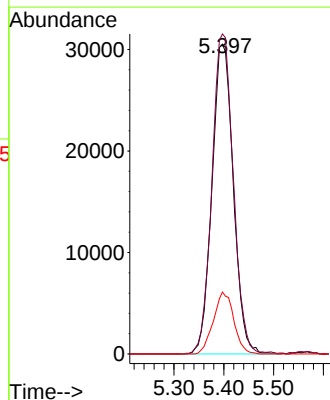
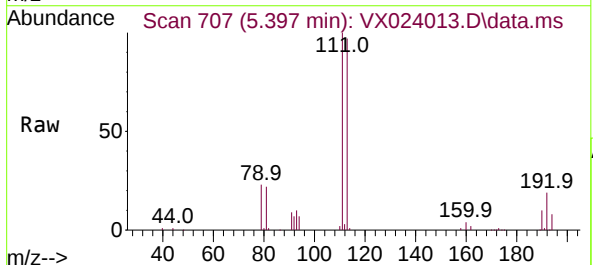
Instrument :  
MSVOA\_X  
ClientSampleId :  
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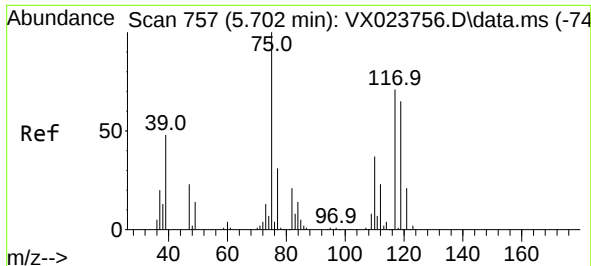
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Ion Ratio Lower Upper  
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63 22.3 0.0 40.8  
88 17.8 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 49.507 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

Tgt Ion:113 Resp: 90557  
Ion Ratio Lower Upper  
113 100  
111 103.7 81.9 122.9  
192 19.1 16.7 25.1

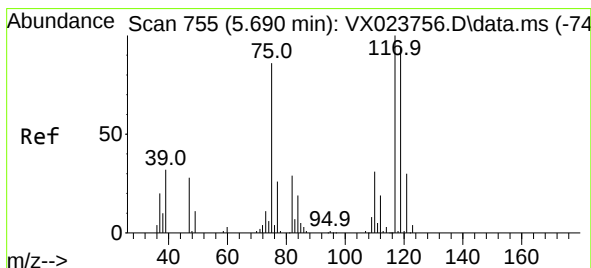
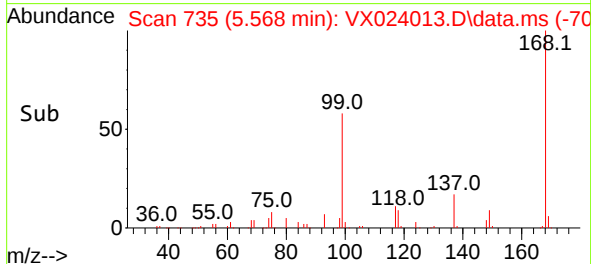
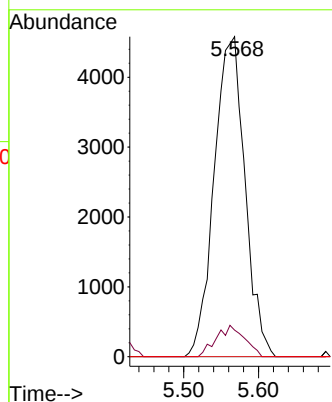
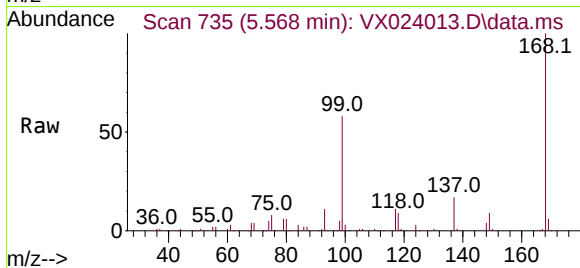




#36  
1,1-Dichloropropene  
Concen: 5.127 ug/l  
RT: 5.568 min Scan# 735  
Delta R.T. -0.134 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

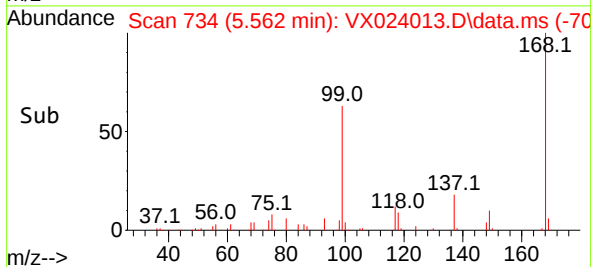
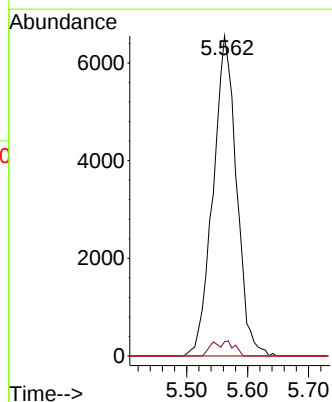
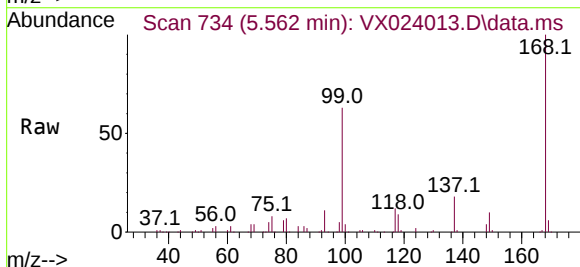
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ClientSampleId :  
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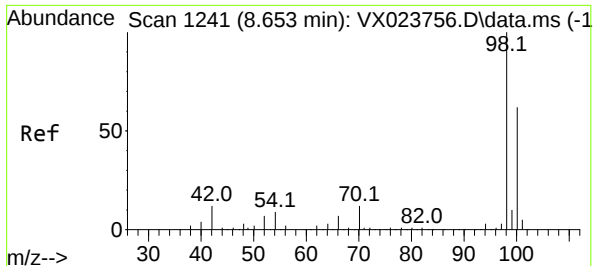
Tgt Ion: 75 Resp: 13122  
Ion Ratio Lower Upper  
75 100  
110 9.0 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.586 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.128 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

Tgt Ion: 117 Resp: 17577  
Ion Ratio Lower Upper  
117 100  
119 4.4 76.2 114.2#  
121 0.0 24.8 37.2#





#50

Toluene-d8

Concen: 48.742 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX024013.D

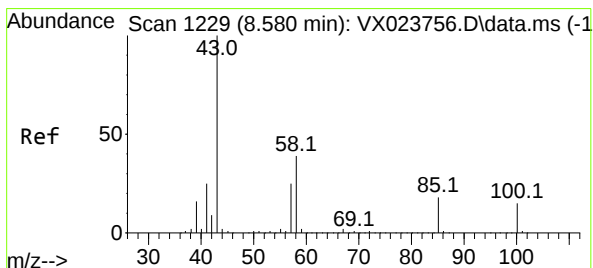
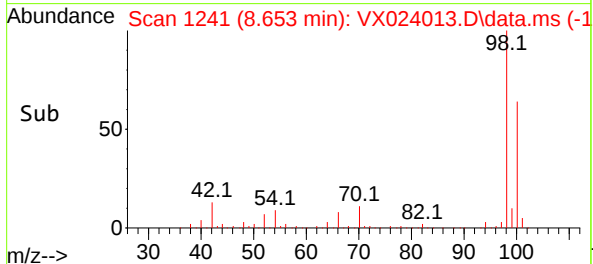
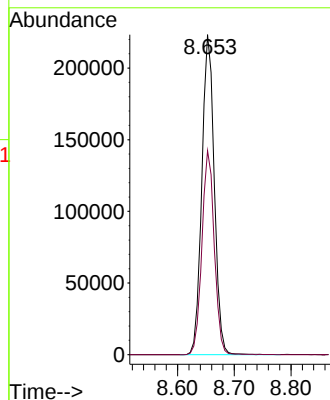
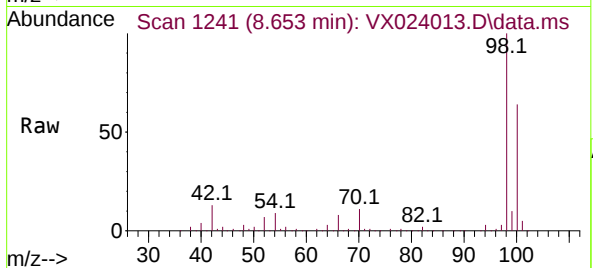
Acq: 30 Aug 2021 14:42

Tgt Ion: 98 Resp: 339340

Ion Ratio Lower Upper

98 100

100 63.4 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 0.566 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.073 min

Lab File: VX024013.D

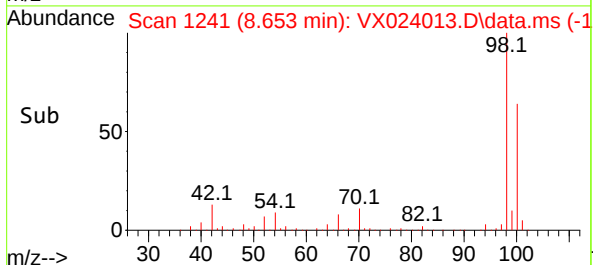
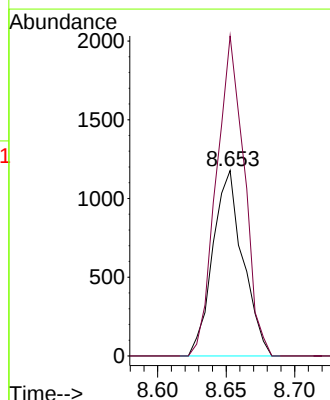
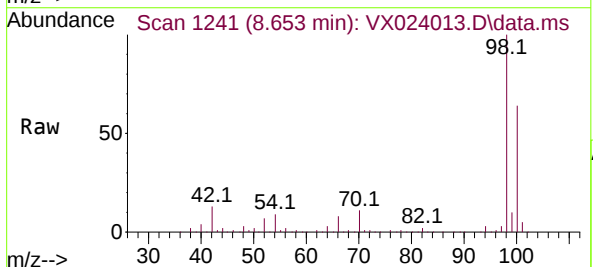
Acq: 30 Aug 2021 14:42

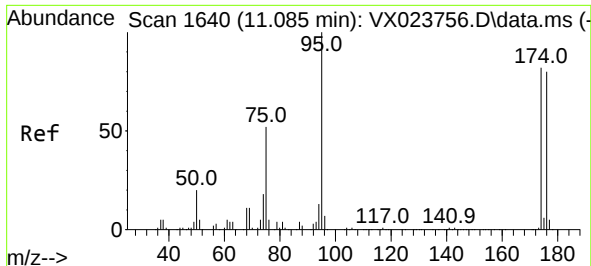
Tgt Ion: 43 Resp: 1802

Ion Ratio Lower Upper

43 100

58 159.9 35.4 53.0#

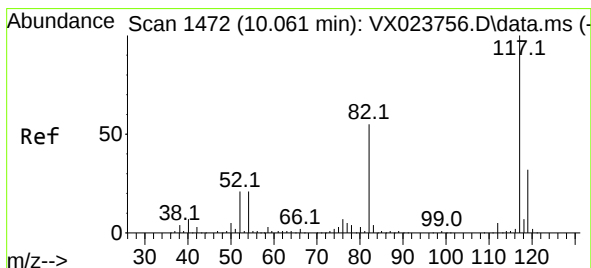
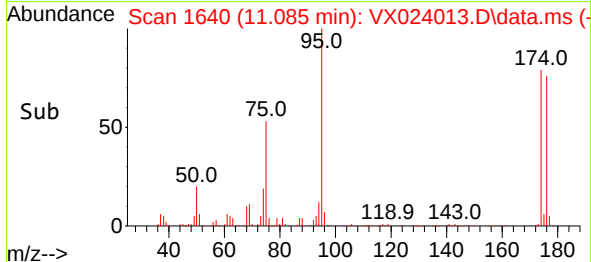
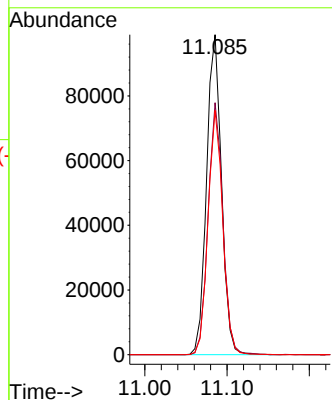
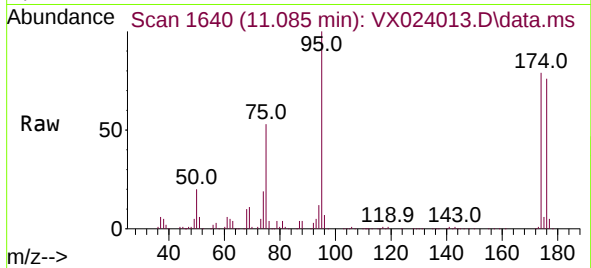




#62  
4-Bromofluorobenzene  
Concen: 48.624 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

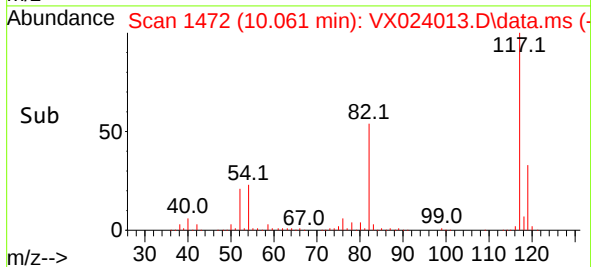
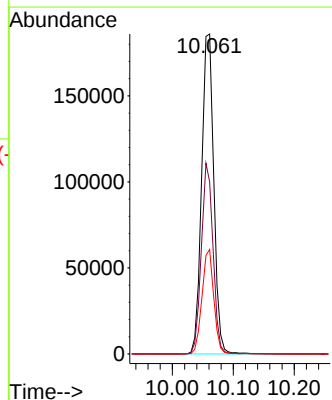
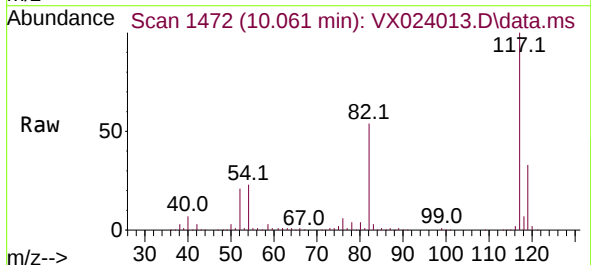
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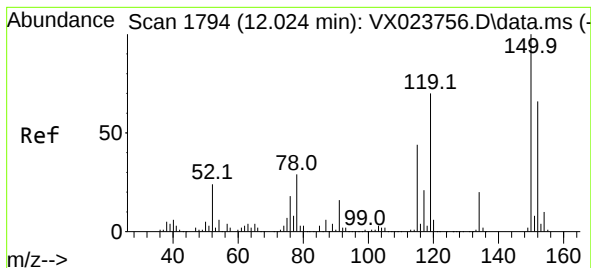
Tgt Ion: 95 Resp: 124617  
Ion Ratio Lower Upper  
95 100  
174 78.1 0.0 154.6  
176 75.4 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

Tgt Ion: 117 Resp: 257975  
Ion Ratio Lower Upper  
117 100  
82 53.8 47.4 71.2  
119 32.7 26.6 39.8

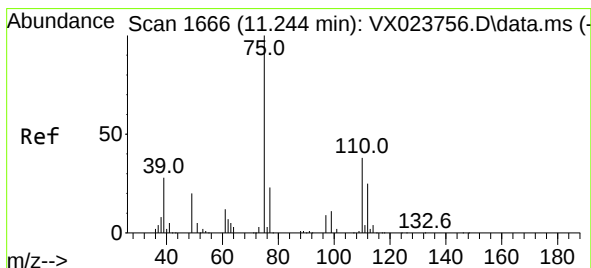
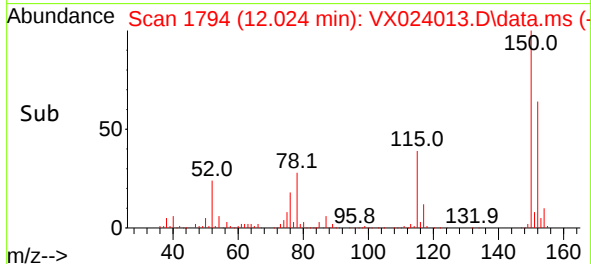
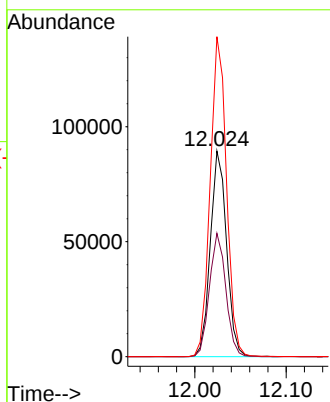
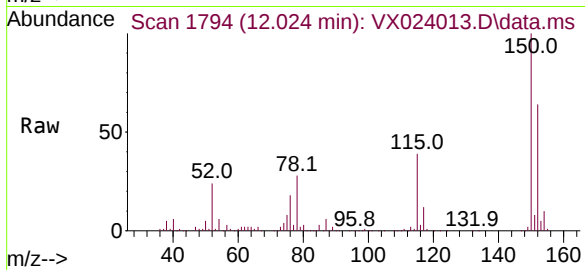




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 1794  
 Delta R.T. 0.000 min  
 Lab File: VX024013.D  
 Acq: 30 Aug 2021 14:42

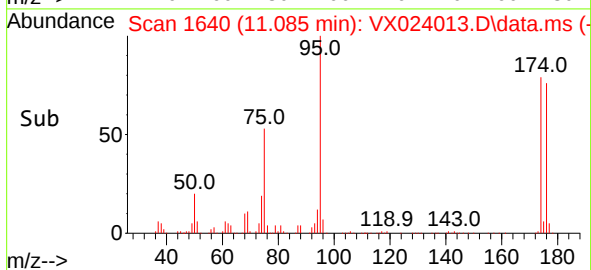
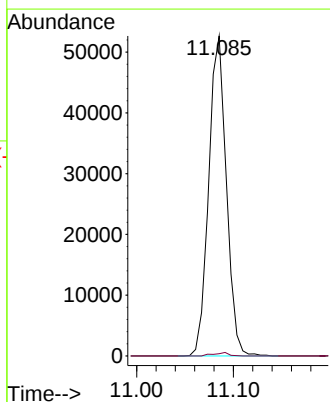
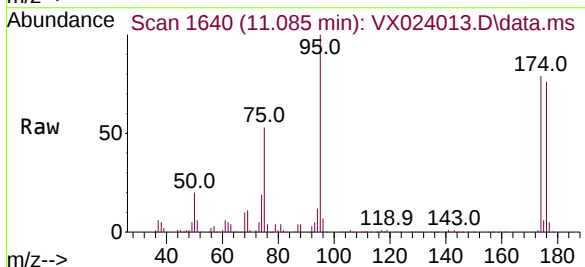
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 MSVOA\_X  
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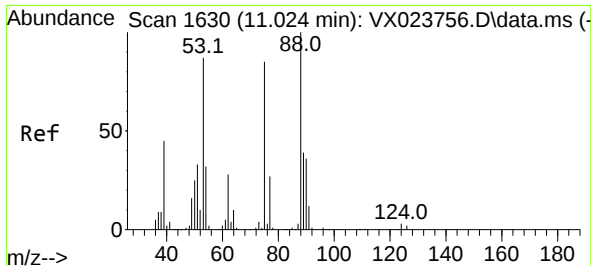
Tgt Ion:152 Resp: 110110  
 Ion Ratio Lower Upper  
 152 100  
 115 60.7 41.1 123.3  
 150 156.4 0.0 349.0



#76  
 1,2,3-Trichloropropane  
 Concen: 26.041 ug/l  
 RT: 11.085 min Scan# 1640  
 Delta R.T. -0.159 min  
 Lab File: VX024013.D  
 Acq: 30 Aug 2021 14:42

Tgt Ion: 75 Resp: 66889  
 Ion Ratio Lower Upper  
 75 100  
 77 0.9 19.1 57.5#

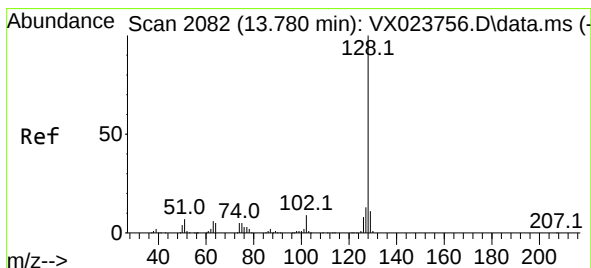
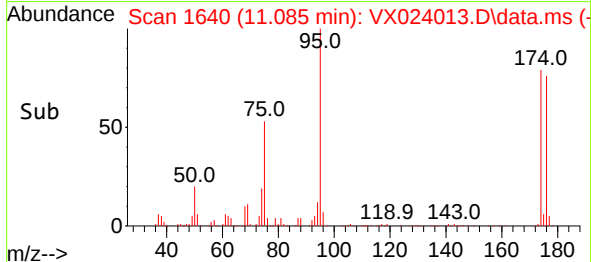
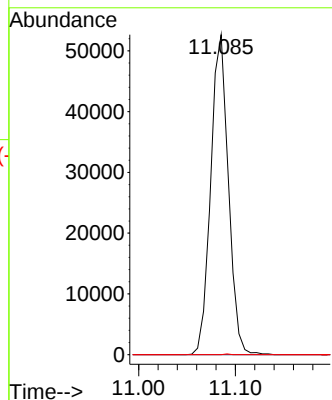
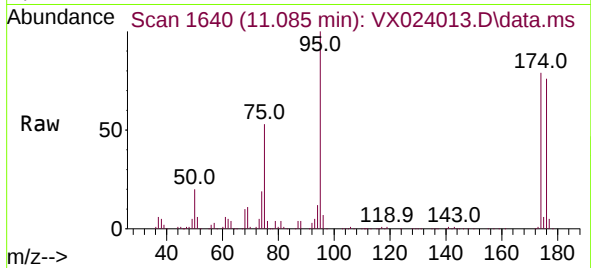




#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.601 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

Instrument :  
MSVOA\_X  
ClientSampleId :  
FIELD-BLANK

Tgt Ion: 75 Resp: 66889  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.1 37.9 56.9#



#95  
Naphthalene  
Concen: 1.299 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. -0.000 min  
Lab File: VX024013.D  
Acq: 30 Aug 2021 14:42

Tgt Ion: 128 Resp: 138  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

