

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX083121\  
 Data File : VX024036.D  
 Acq On : 31 Aug 2021 12:04  
 Operator : JC/MD  
 Sample : M3583-12  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MH-388.9-20210827

Quant Time: Sep 01 05:00:13 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

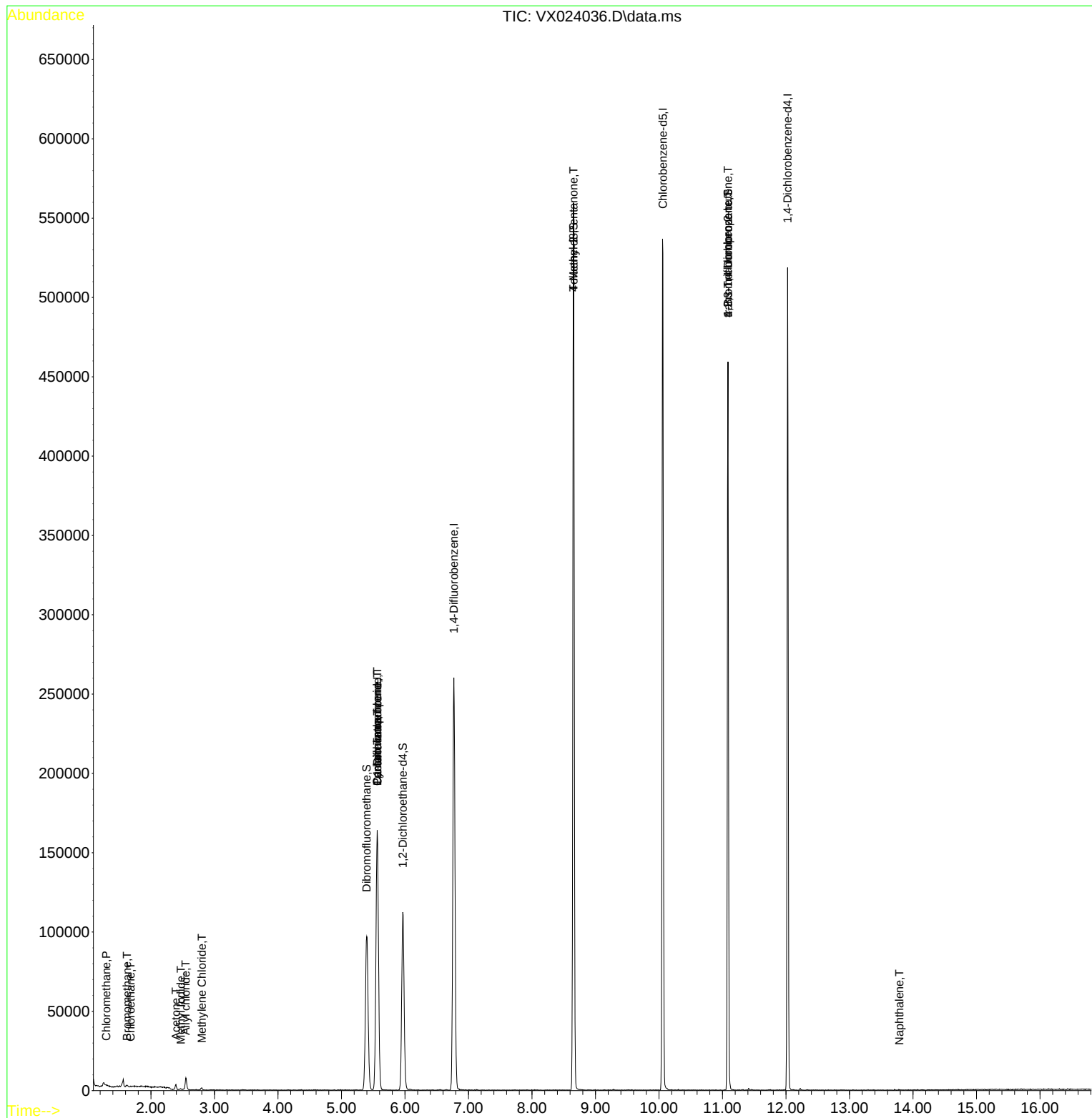
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.562          | 168  | 150451              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769          | 114  | 258144              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.061         | 117  | 243392              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 102114              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964          | 65   | 112333              | 53.496 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 107.000% |        |        |          |
| 35) Dibromofluoromethane      | 5.397          | 113  | 84749               | 49.602 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 99.200%  |        |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 314781              | 48.406 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 96.820%  |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 116030              | 48.469 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 96.940%  |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        |        | Qvalue   |
| 3) Chloromethane              | 1.295          | 50   | 511                 | 0.293  | ug/l # | 80       |
| 5) Bromomethane               | 1.624          | 94   | 600                 | 0.562  | ug/l   | 100      |
| 6) Chloroethane               | 1.679          | 64   | 122                 | 2.300  | ug/l # | 43       |
| 10) Methyl Iodide             | 2.471          | 142  | 868                 | 0.413  | ug/l # | 74       |
| 14) Allyl chloride            | 2.544          | 41   | 813                 | 0.306  | ug/l # | 31       |
| 16) Acetone                   | 2.392          | 43   | 3146                | 3.351  | ug/l   | 89       |
| 20) Methylene Chloride        | 2.800          | 84   | 564                 | 0.314  | ug/l # | 81       |
| 31) Cyclohexane               | 5.562          | 56   | 3571                | 1.324  | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.562          | 75   | 12300               | 5.145  | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.562          | 117  | 16032               | 6.431  | ug/l # | 17       |
| 51) 4-Methyl-2-Pentanone      | 8.653          | 43   | 1748                | 0.588  | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.085         | 75   | 61940               | 26.003 | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085         | 75   | 61940               | 76.488 | ug/l # | 12       |
| 95) Naphthalene               | 13.786         | 128  | 170                 | 1.305  | ug/l # | 69       |
| -----                         |                |      |                     |        |        |          |

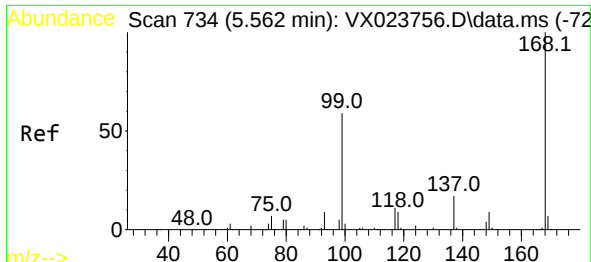
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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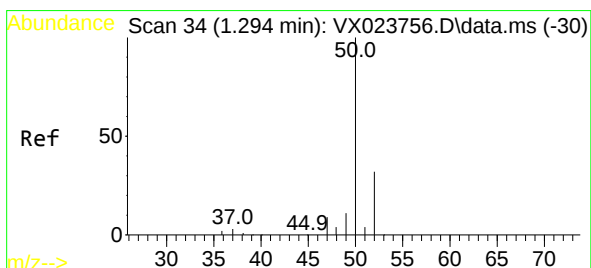
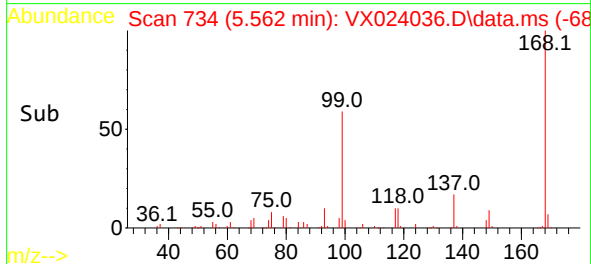
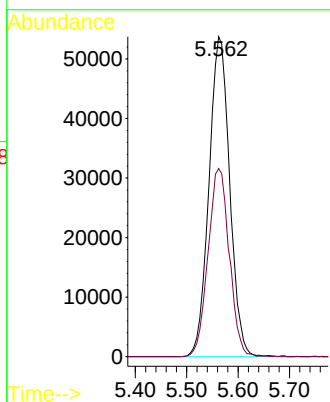
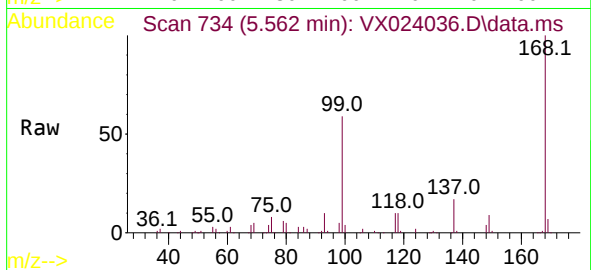




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.000 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

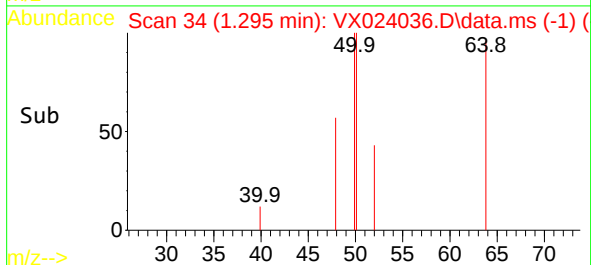
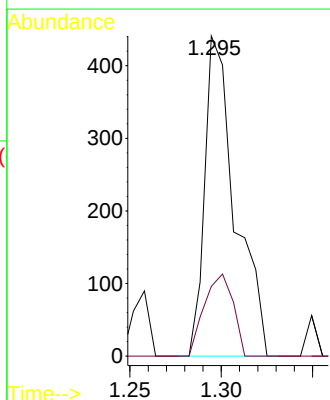
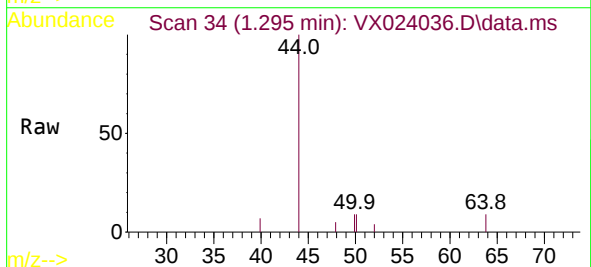
Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-388.9-20210827

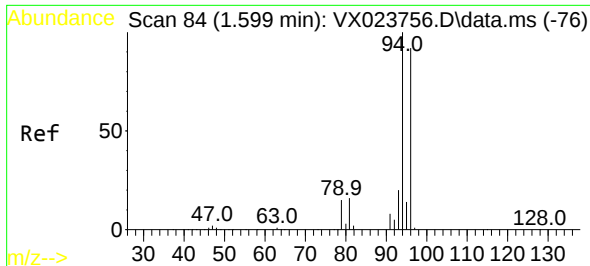
Tgt Ion:168 Resp: 150451  
Ion Ratio Lower Upper  
168 100  
99 58.8 45.8 68.6



#3  
Chloromethane  
Concen: 0.293 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. 0.001 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

Tgt Ion: 50 Resp: 511  
Ion Ratio Lower Upper  
50 100  
52 21.8 26.4 39.6#

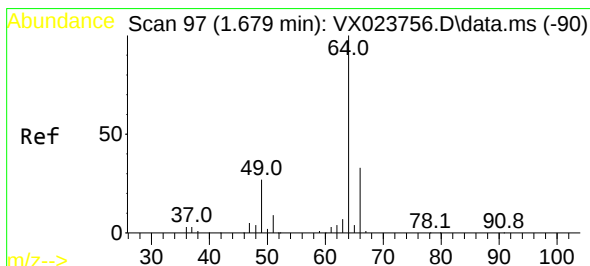
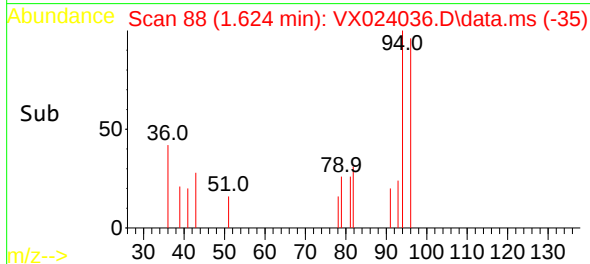
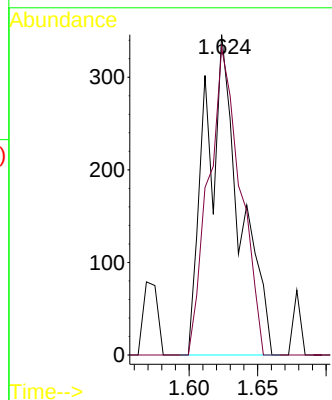
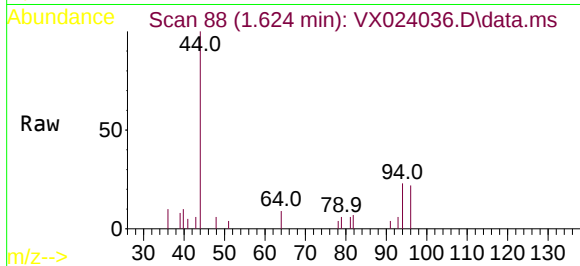




#5  
Bromomethane  
Concen: 0.562 ug/l  
RT: 1.624 min Scan# 88  
Delta R.T. 0.025 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

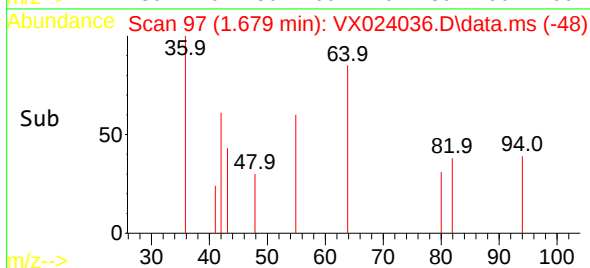
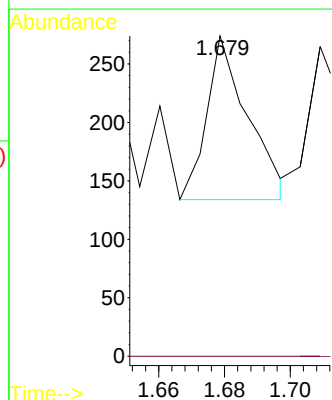
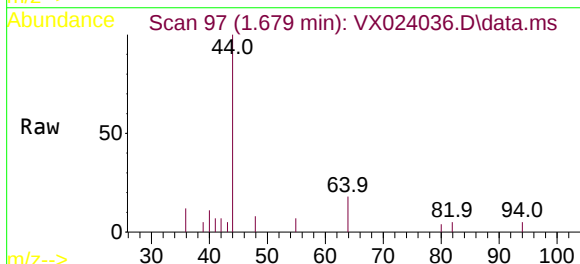
Instrument :  
MSVOA\_X  
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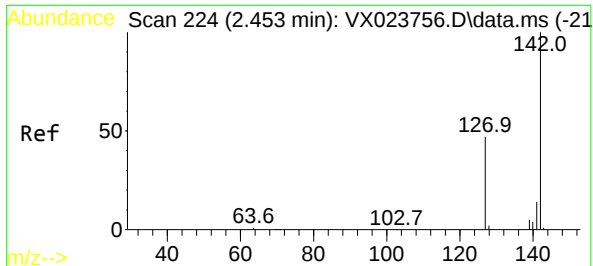
Tgt Ion: 94 Resp: 600  
Ion Ratio Lower Upper  
94 100  
96 96.0 76.4 114.6



#6  
Chloroethane  
Concen: 2.300 ug/l  
RT: 1.679 min Scan# 97  
Delta R.T. -0.000 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

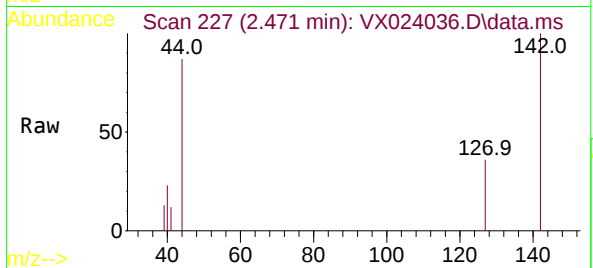
Tgt Ion: 64 Resp: 122  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#



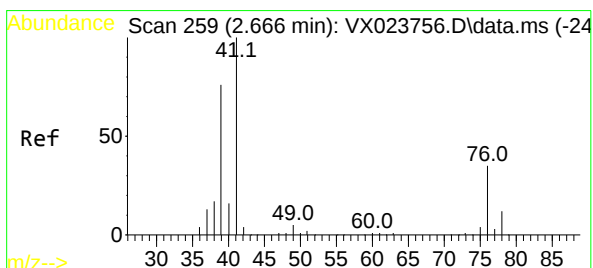
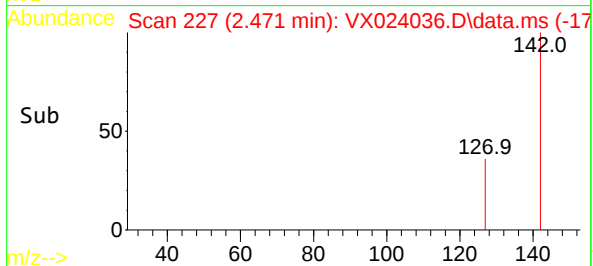
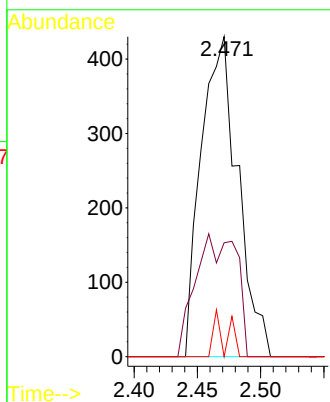


#10  
Methyl Iodide  
Concen: 0.413 ug/l  
RT: 2.471 min Scan# 227  
Delta R.T. 0.018 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-388.9-20210827

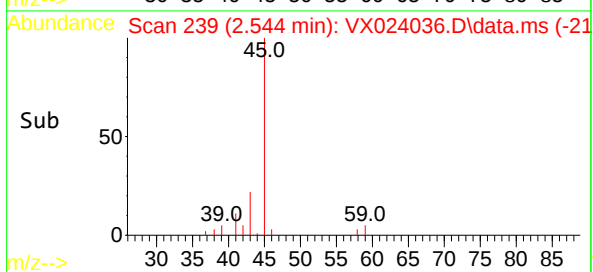
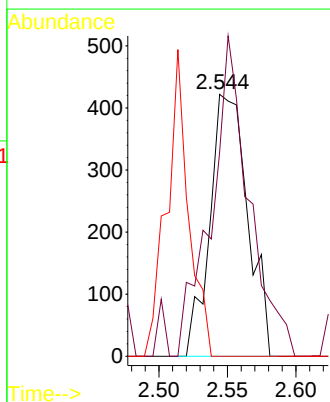
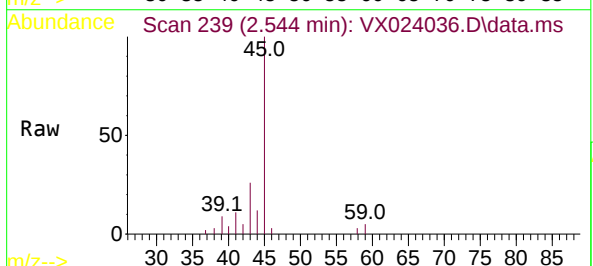


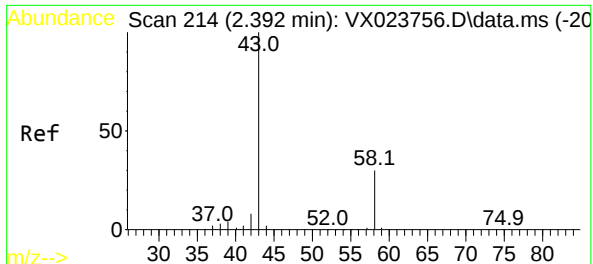
Tgt Ion:142 Resp: 868  
Ion Ratio Lower Upper  
142 100  
127 24.2 33.3 49.9#  
141 5.0 11.4 17.0#



#14  
Allyl chloride  
Concen: 0.306 ug/l  
RT: 2.544 min Scan# 239  
Delta R.T. -0.122 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

Tgt Ion: 41 Resp: 813  
Ion Ratio Lower Upper  
41 100  
39 122.0 51.6 77.4#  
76 0.0 30.5 45.7#

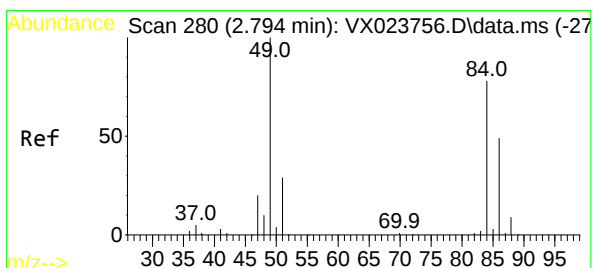
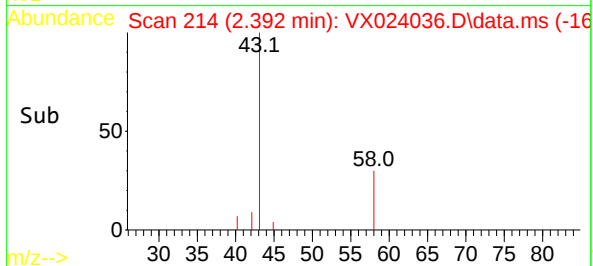
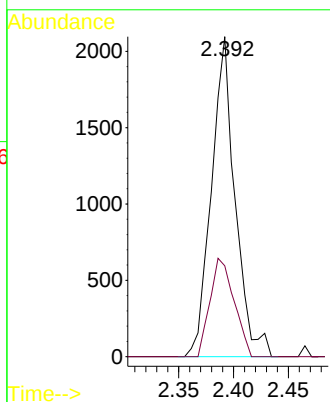
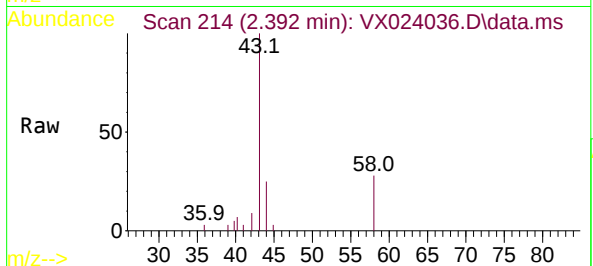




#16  
Acetone  
Concen: 3.351 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

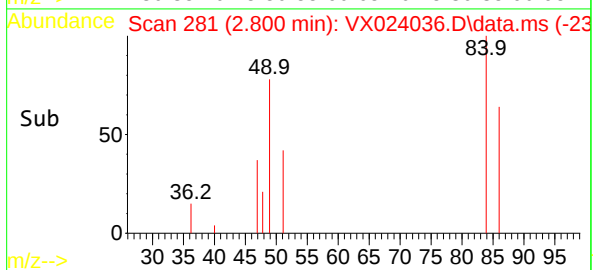
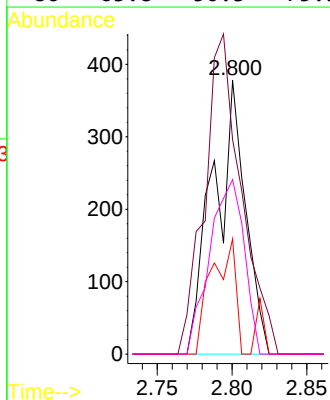
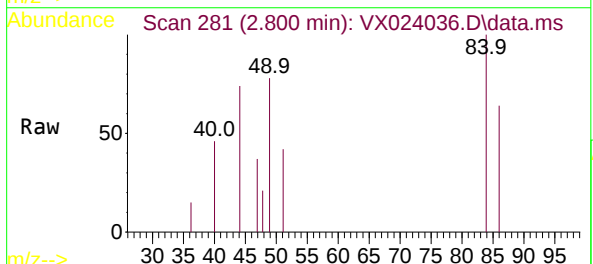
Instrument :  
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ClientSampleId :  
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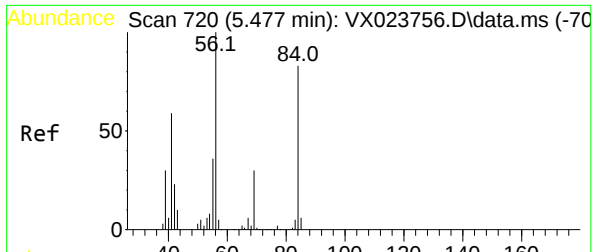
Tgt Ion: 43 Resp: 3146  
Ion Ratio Lower Upper  
43 100  
58 28.4 27.8 41.8



#20  
Methylene Chloride  
Concen: 0.314 ug/l  
RT: 2.800 min Scan# 281  
Delta R.T. 0.006 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

Tgt Ion: 84 Resp: 564  
Ion Ratio Lower Upper  
84 100  
49 78.3 88.6 132.8#  
51 42.1 27.0 40.6#  
86 63.8 50.3 75.5





#31

Cyclohexane

Concen: 1.324 ug/l

RT: 5.562 min Scan# 734

Delta R.T. 0.085 min

Lab File: VX024036.D

Acq: 31 Aug 2021 12:04

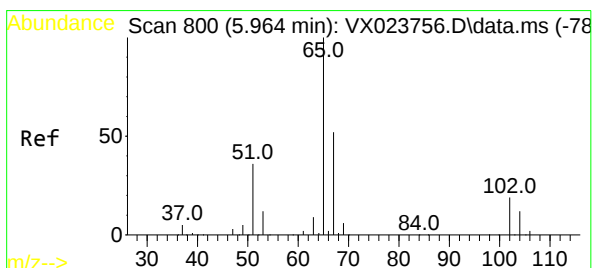
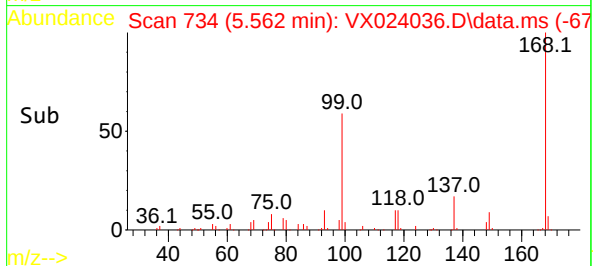
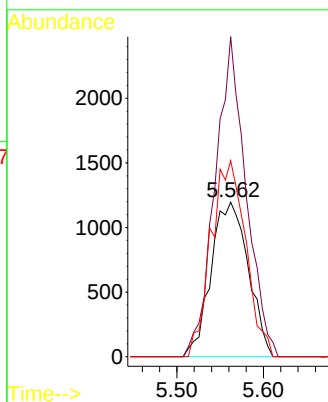
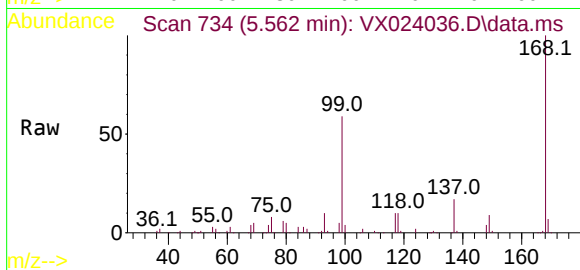
Tgt Ion: 56 Resp: 3571

Ion Ratio Lower Upper

56 100

69 207.1 25.3 37.9#

84 126.8 71.4 107.0#



#33

1,2-Dichloroethane-d4

Concen: 53.496 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX024036.D

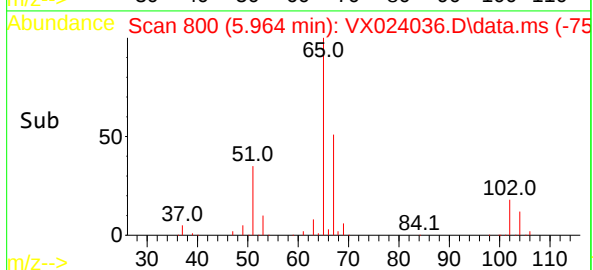
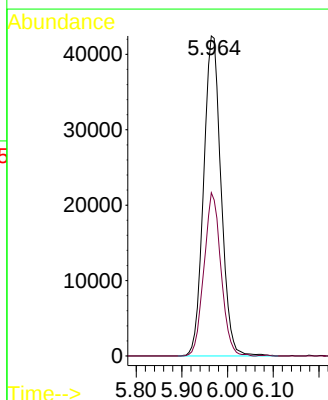
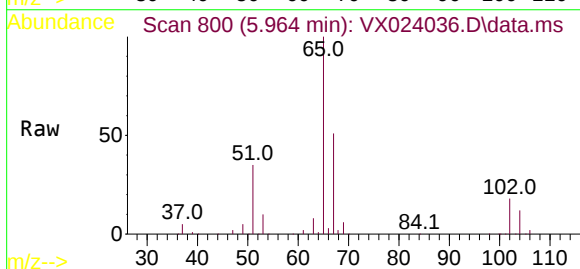
Acq: 31 Aug 2021 12:04

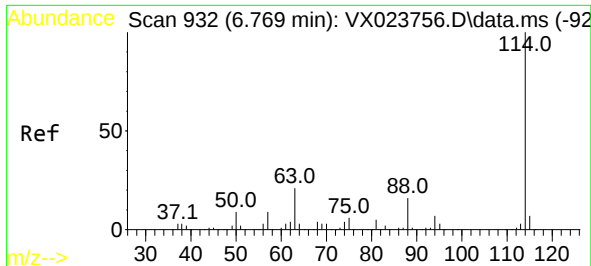
Tgt Ion: 65 Resp: 112333

Ion Ratio Lower Upper

65 100

67 49.6 0.0 105.4

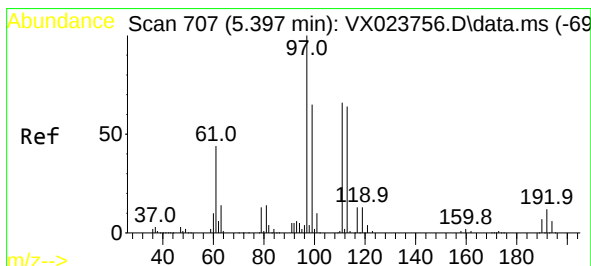
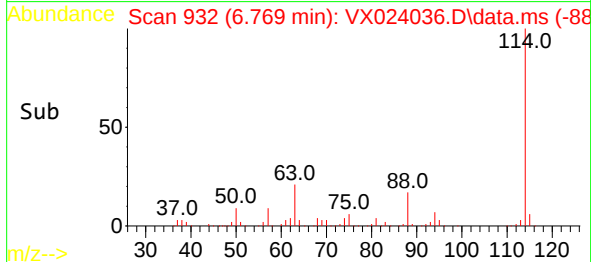
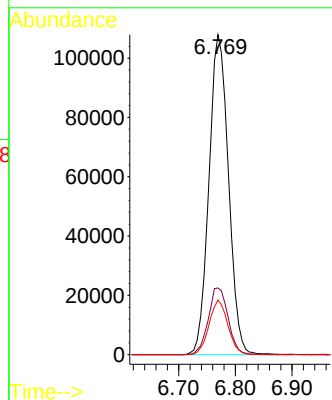
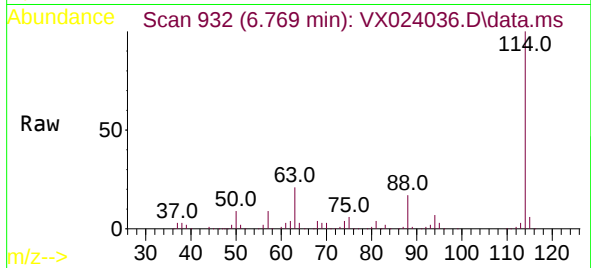




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. 0.000 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

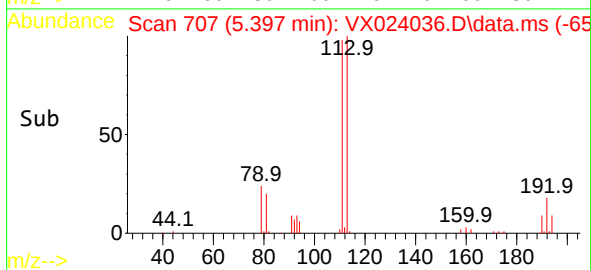
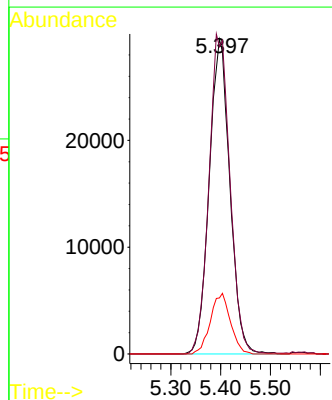
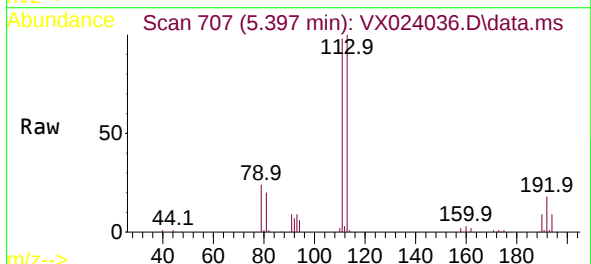
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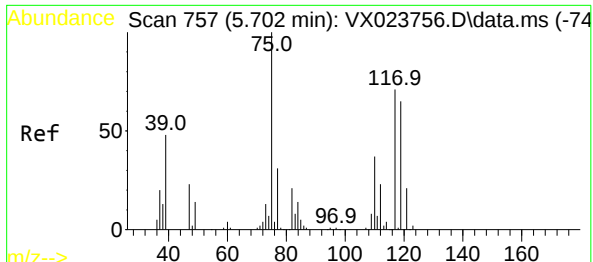
Tgt Ion:114 Resp: 258144  
Ion Ratio Lower Upper  
114 100  
63 20.8 0.0 40.8  
88 17.1 0.0 32.8



#35  
Dibromofluoromethane  
Concen: 49.602 ug/l  
RT: 5.397 min Scan# 707  
Delta R.T. 0.000 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

Tgt Ion:113 Resp: 84749  
Ion Ratio Lower Upper  
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111 103.3 81.9 122.9  
192 18.7 16.7 25.1

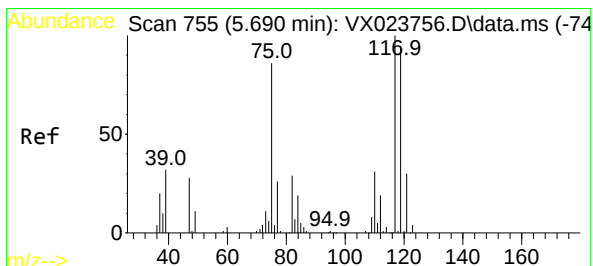
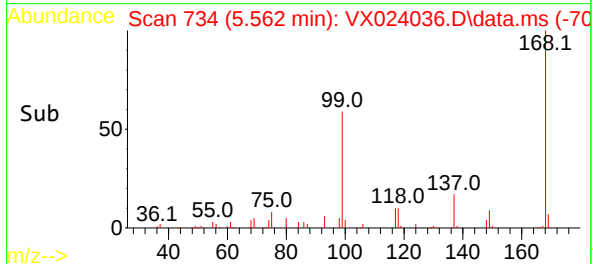
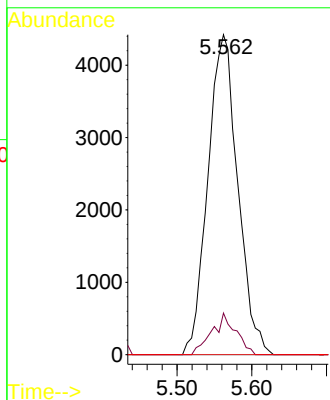
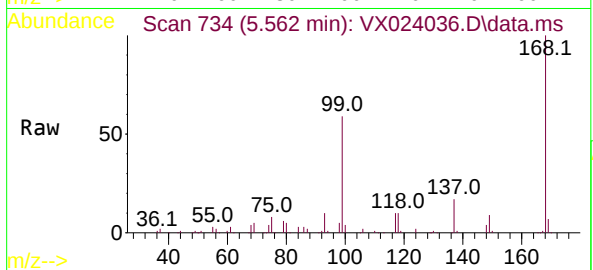




#36  
1,1-Dichloropropene  
Concen: 5.145 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.140 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

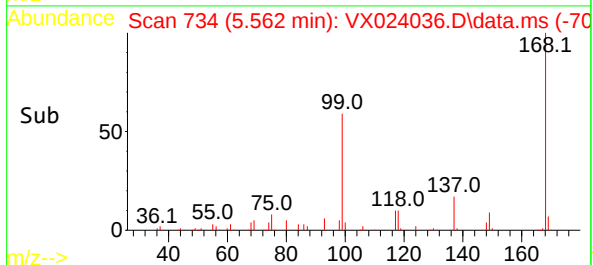
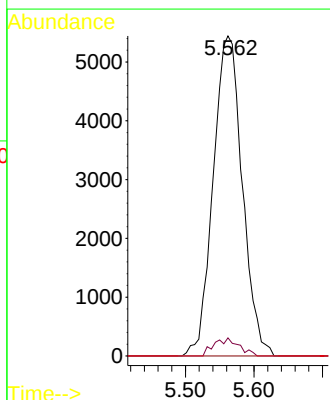
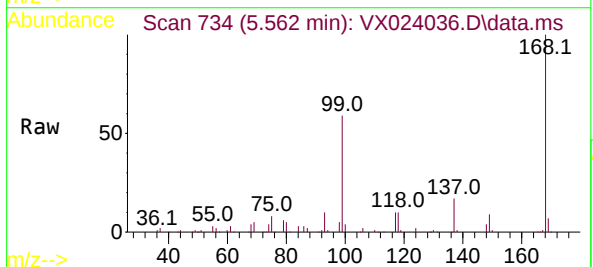
Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-388.9-20210827

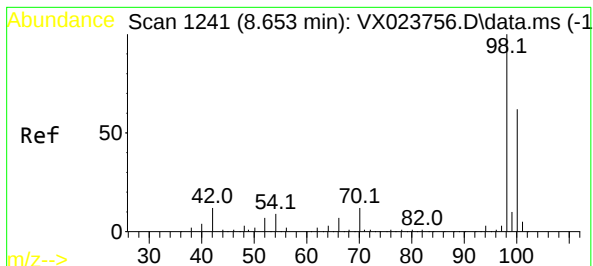
Tgt Ion: 75 Resp: 12300  
Ion Ratio Lower Upper  
75 100  
110 10.4 18.1 54.4#  
77 0.0 25.3 37.9#



#38  
Carbon Tetrachloride  
Concen: 6.431 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.128 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

Tgt Ion: 117 Resp: 16032  
Ion Ratio Lower Upper  
117 100  
119 5.7 76.2 114.2#  
121 0.0 24.8 37.2#

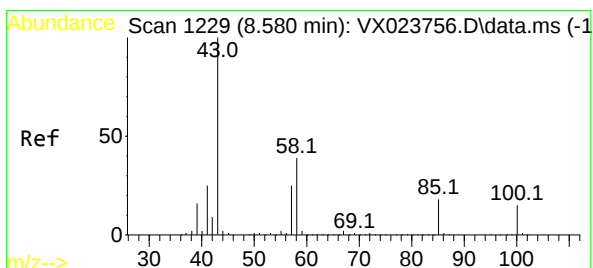
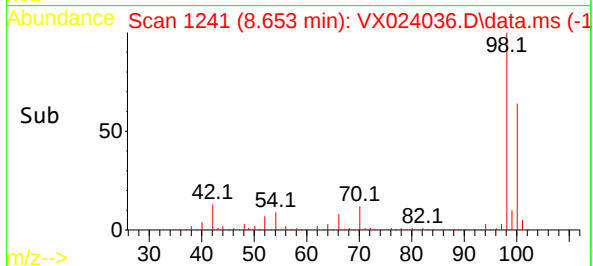
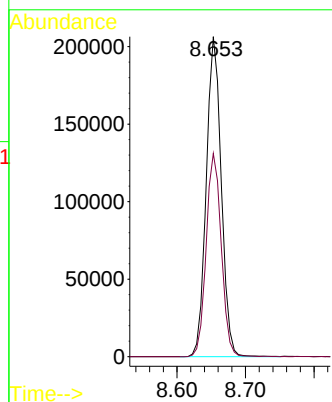
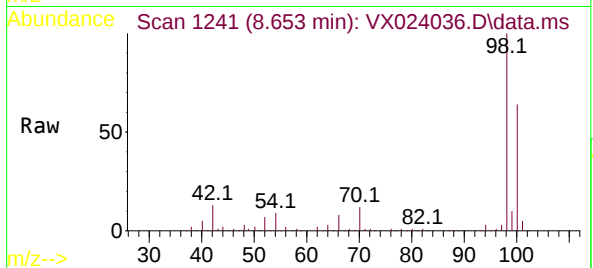




#50  
Toluene-d8  
Concen: 48.406 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

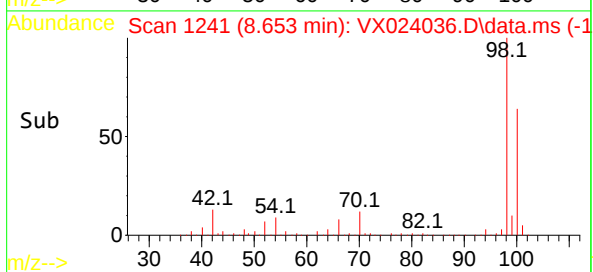
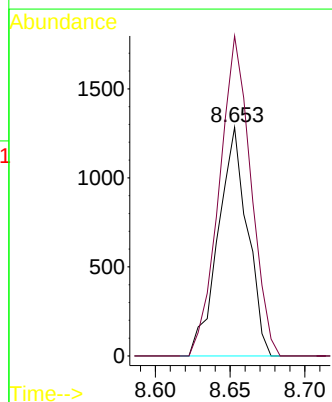
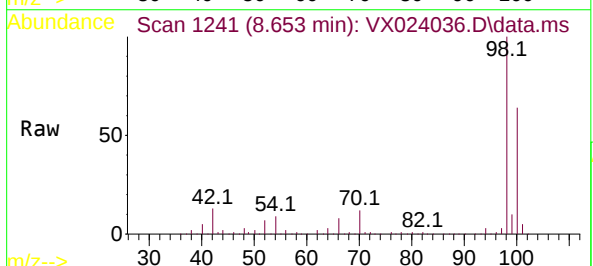
Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-388.9-20210827

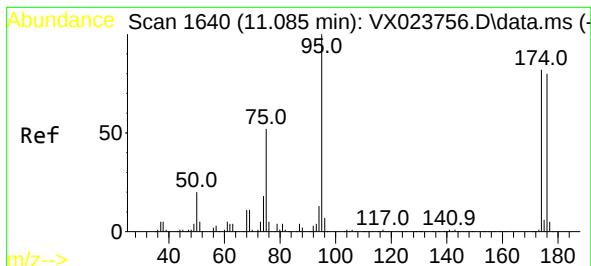
Tgt Ion: 98 Resp: 314781  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.9 77.9



#51  
4-Methyl-2-Pentanone  
Concen: 0.588 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.073 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

Tgt Ion: 43 Resp: 1748  
Ion Ratio Lower Upper  
43 100  
58 150.9 35.4 53.0#

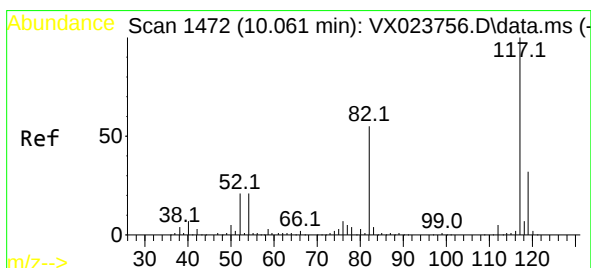
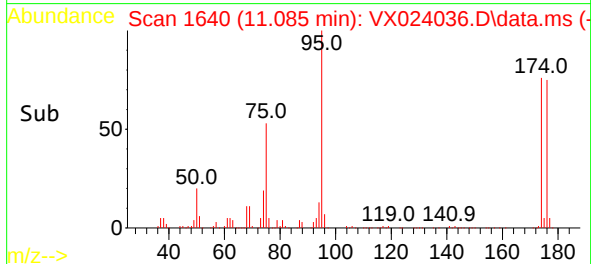
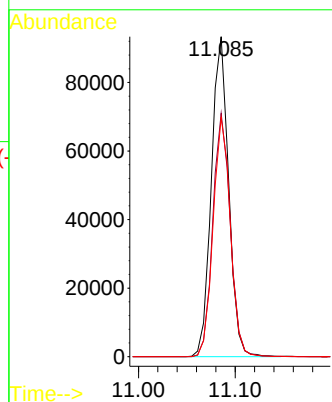
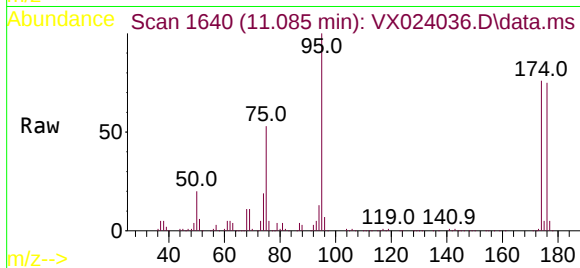




#62  
4-Bromofluorobenzene  
Concen: 48.469 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.000 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

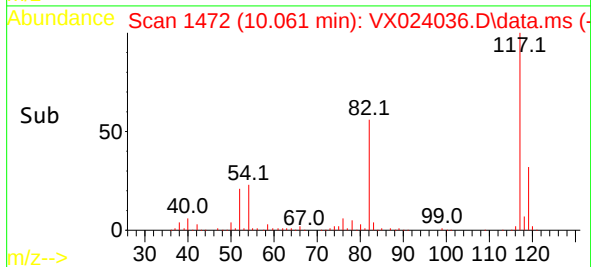
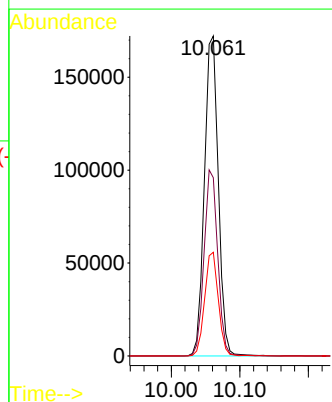
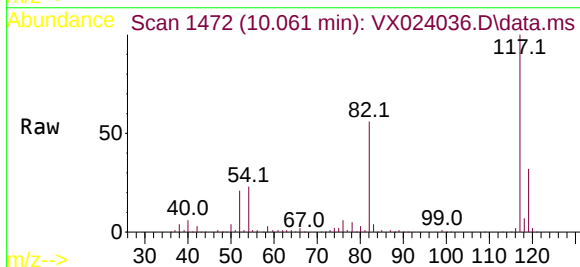
Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-388.9-20210827

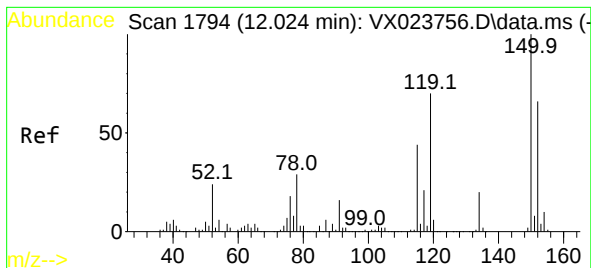
Tgt Ion: 95 Resp: 116030  
Ion Ratio Lower Upper  
95 100  
174 76.4 0.0 154.6  
176 74.7 0.0 155.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

Tgt Ion: 117 Resp: 243392  
Ion Ratio Lower Upper  
117 100  
82 55.7 47.4 71.2  
119 32.4 26.6 39.8

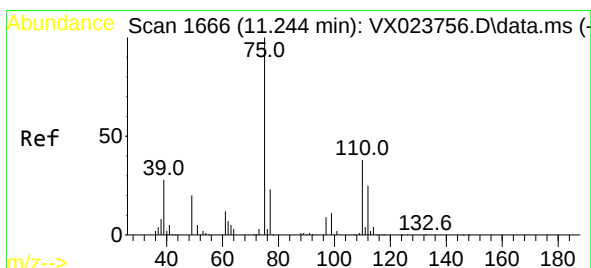
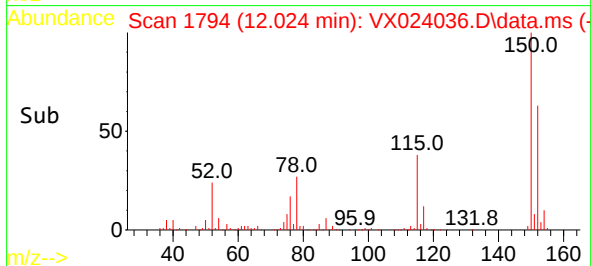
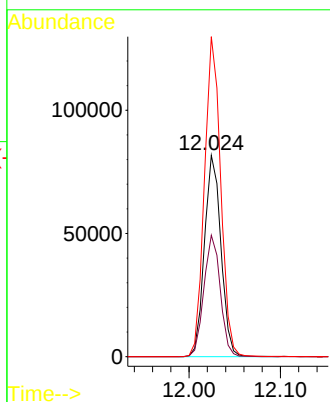
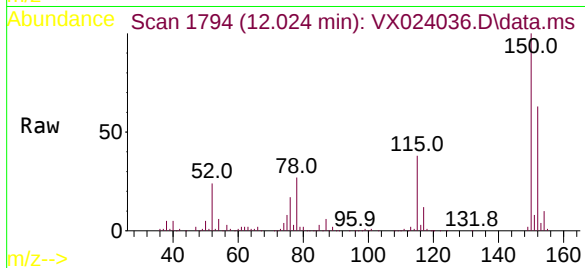




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

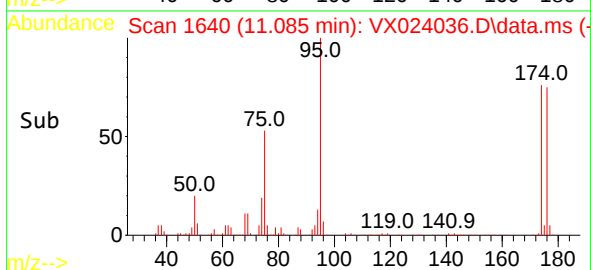
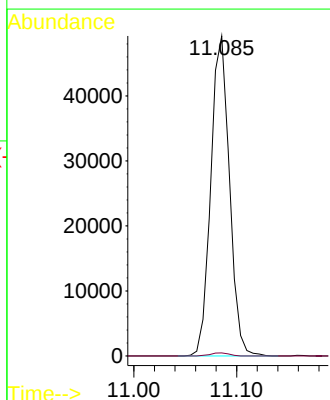
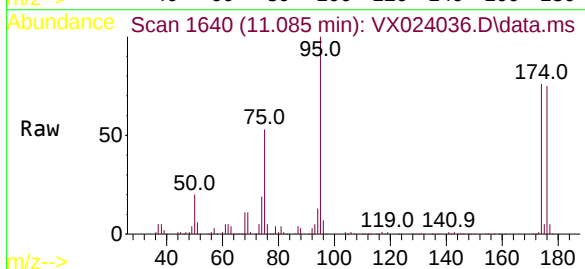
Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-388.9-20210827

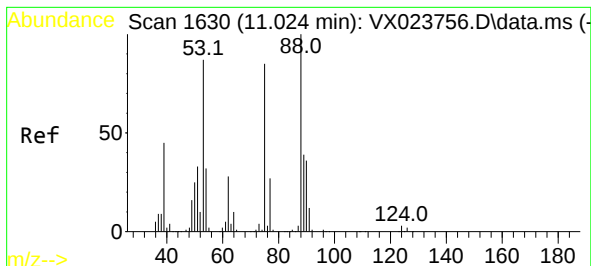
Tgt Ion:152 Resp: 102114  
Ion Ratio Lower Upper  
152 100  
115 59.8 41.1 123.3  
150 156.3 0.0 349.0



#76  
1,2,3-Trichloropropane  
Concen: 26.003 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

Tgt Ion: 75 Resp: 61940  
Ion Ratio Lower Upper  
75 100  
77 0.9 19.1 57.5#

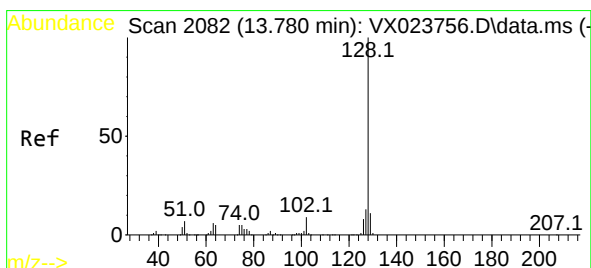
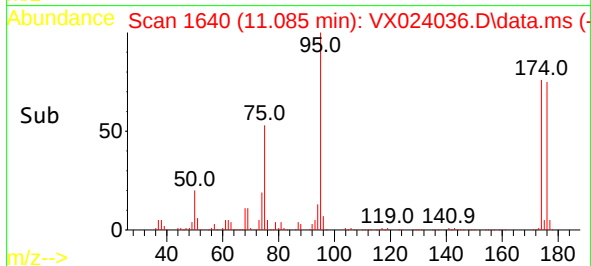
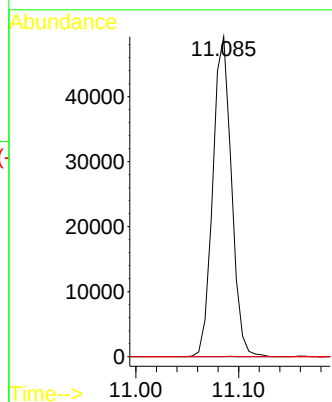
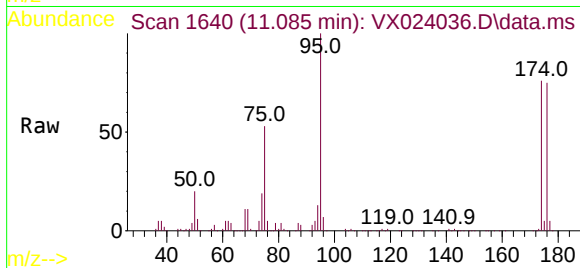




#81  
trans-1,4-Dichloro-2-butene  
Concen: 76.488 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.061 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
MH-388.9-20210827

Tgt Ion: 75 Resp: 61940  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.1 37.9 56.9#



#95  
Naphthalene  
Concen: 1.305 ug/l  
RT: 13.786 min Scan# 2083  
Delta R.T. 0.006 min  
Lab File: VX024036.D  
Acq: 31 Aug 2021 12:04

Tgt Ion: 128 Resp: 170  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

