

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD070824\  
 Data File : VD079352.D  
 Acq On : 08 Jul 2024 20:24  
 Operator : RP/MD  
 Sample : P3167-14  
 Misc : 5.07G/5.0ml/MSVOA\_D/SOIL/A  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Jul 09 04:59:09 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D070824S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 08 17:06:59 2024  
 Response via : Initial Calibration

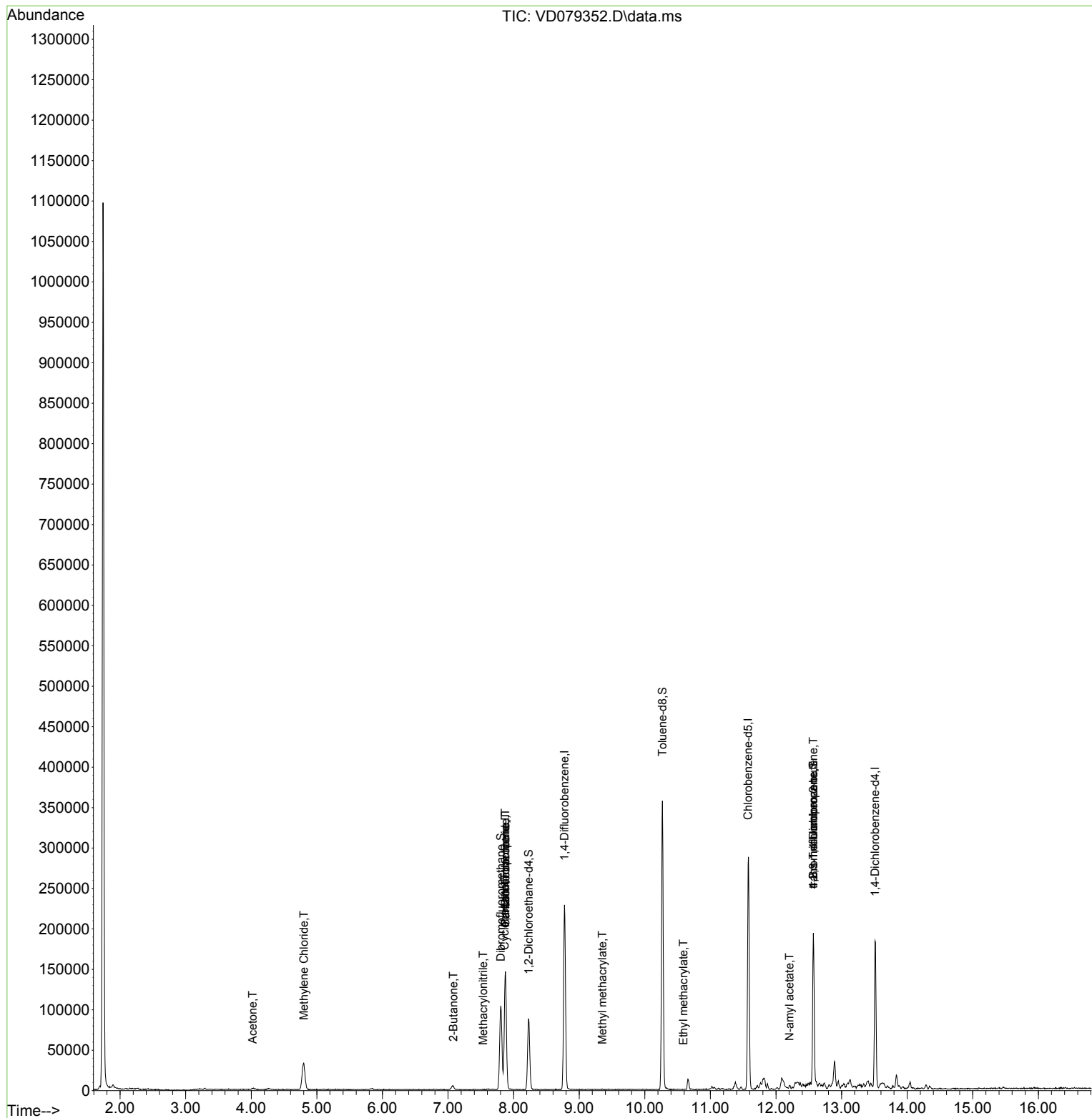
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 109150   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.775  | 114   | 209587   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.575 | 117   | 177348   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.510 | 152   | 49829    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.228  | 65    | 68883    | 53.553    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 107.100% |          |
| 35) Dibromofluoromethane      | 7.805  | 113   | 79977    | 54.090    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 108.180% |          |
| 50) Toluene-d8                | 10.269 | 98    | 252715   | 44.338    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 88.680%  |          |
| 62) 4-Bromofluorobenzene      | 12.569 | 95    | 60623    | 34.221    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 68.440%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 2.687  | 94    | 269      | Below Cal | #          | 26       |
| 16) Acetone                   | 4.022  | 43    | 3122     | 12.762    | ug/l       | 88       |
| 20) Methylene Chloride        | 4.805  | 84    | 28016    | 7.380     | ug/l       | 95       |
| 25) 2-Butanone                | 7.081  | 43    | 359      | 1.033     | ug/l #     | 42       |
| 31) Cyclohexane               | 7.863  | 56    | 2264     | 1.164     | ug/l #     | 7        |
| 36) 1,1-Dichloropropene       | 7.875  | 75    | 9252     | 4.926     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 11714    | 5.925     | ug/l #     | 16       |
| 41) Methacrylonitrile         | 7.534  | 41    | 55       | 3.182     | ug/l #     | 12       |
| 48) Methyl methacrylate       | 9.352  | 41    | 64       | 2.563     | ug/l #     | 11       |
| 56) Ethyl methacrylate        | 10.587 | 69    | 73       | 3.244     | ug/l #     | 35       |
| 74) N-amyl acetate            | 12.204 | 43    | 1263     | 1.690     | ug/l #     | 48       |
| 76) 1,2,3-Trichloropropane    | 12.569 | 75    | 28854    | 60.268    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.569 | 75    | 28854    | 113.632   | ug/l #     | 19       |
| -----                         |        |       |          |           |            |          |

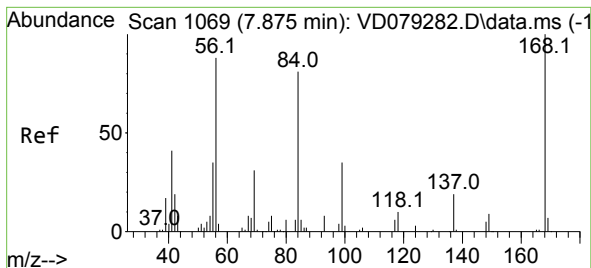
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD070824\  
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Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Jul 09 04:59:09 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D070824S.M  
Quant Title : SW846 8260  
QLast Update : Mon Jul 08 17:06:59 2024  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 10

Delta R.T. 0.000 min

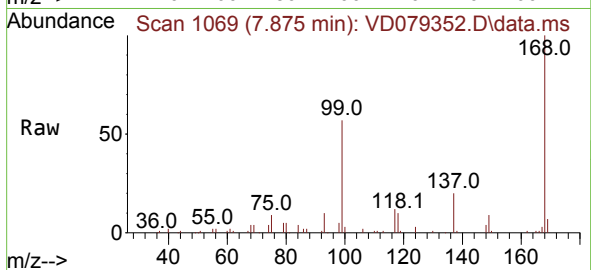
Lab File: VD079352.D

Acq: 08 Jul 2024 20:24

Instrument :

MSVOA\_D

ClientSampleId :

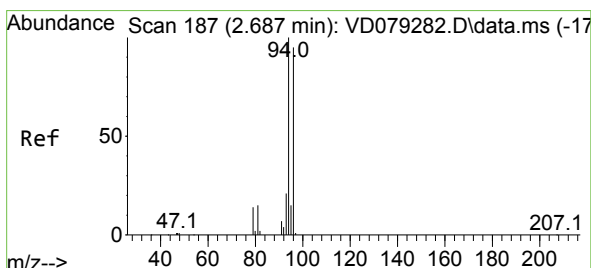
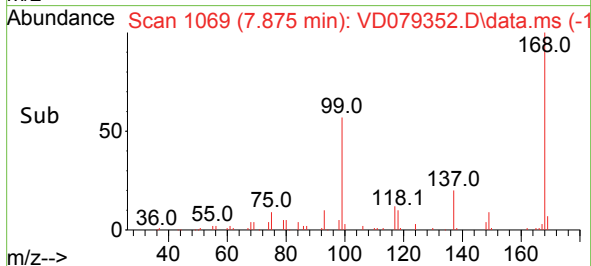
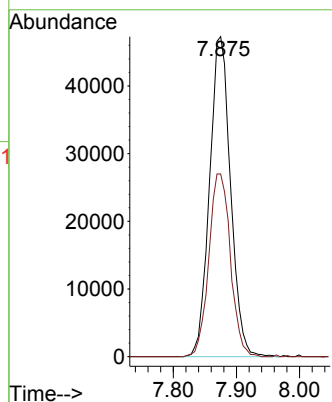


Tgt Ion:168 Resp: 109150

Ion Ratio Lower Upper

168 100

99 57.1 41.1 61.7



#5

Bromomethane

Concen: Below Cal

RT: 2.687 min Scan# 187

Delta R.T. 0.029 min

Lab File: VD079352.D

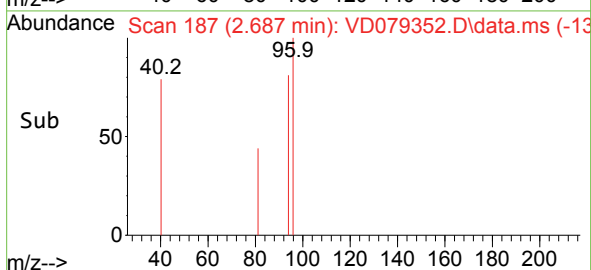
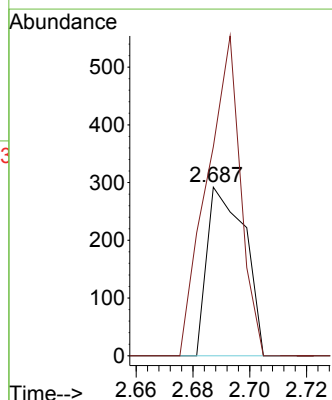
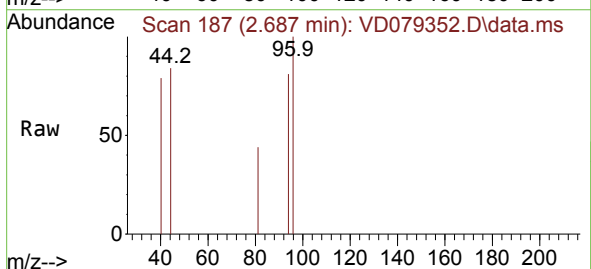
Acq: 08 Jul 2024 20:24

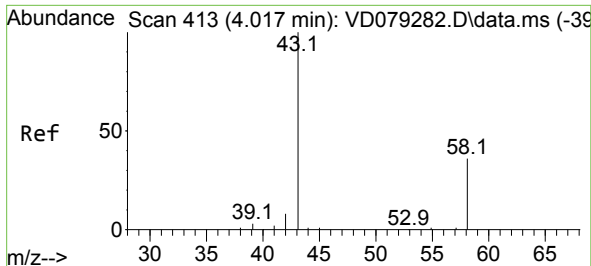
Tgt Ion: 94 Resp: 269

Ion Ratio Lower Upper

94 100

96 168.0 76.9 115.3#

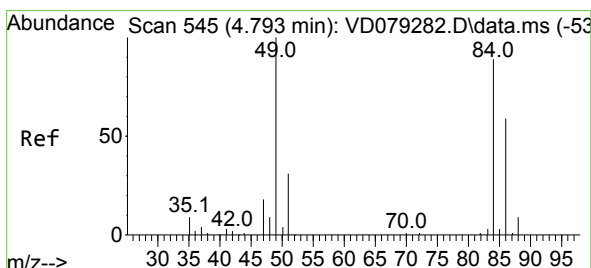
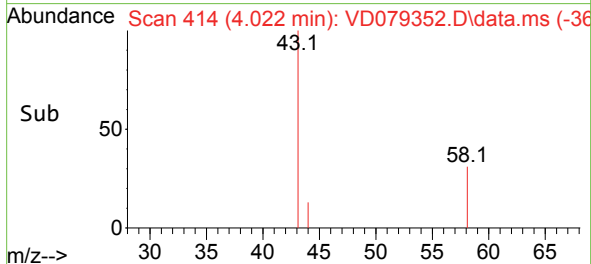
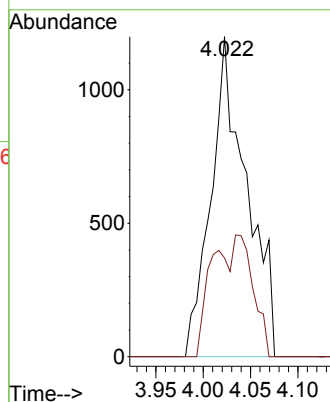
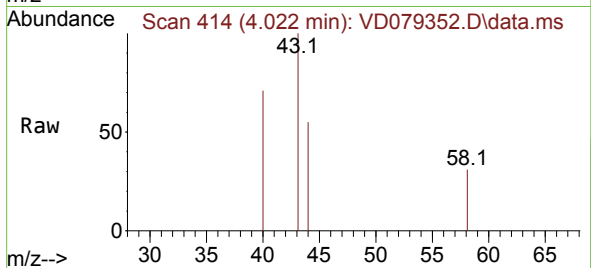




#16  
Acetone  
Concen: 12.762 ug/l  
RT: 4.022 min Scan# 413  
Delta R.T. 0.005 min  
Lab File: VD079352.D  
Acq: 08 Jul 2024 20:24

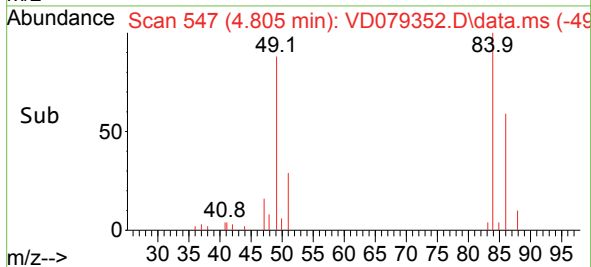
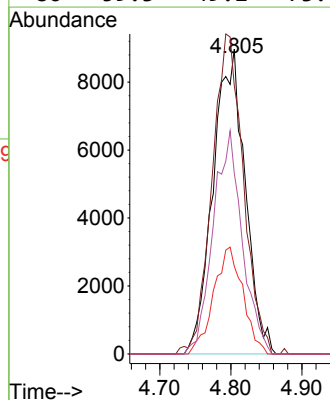
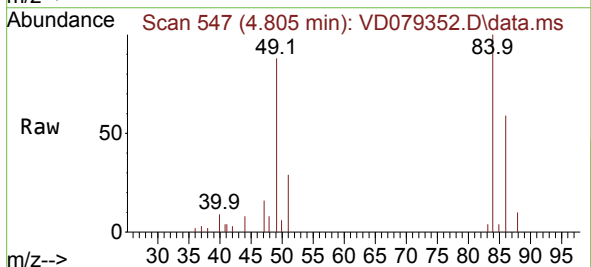
Instrument :  
MSVOA\_D  
ClientSampleId :

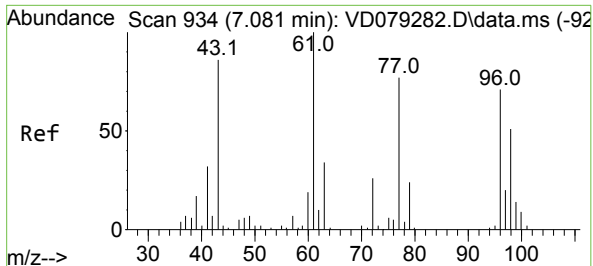
Tgt Ion: 43 Resp: 3122  
Ion Ratio Lower Upper  
43 100  
58 30.9 30.4 45.6



#20  
Methylene Chloride  
Concen: 7.380 ug/l  
RT: 4.805 min Scan# 547  
Delta R.T. 0.012 min  
Lab File: VD079352.D  
Acq: 08 Jul 2024 20:24

Tgt Ion: 84 Resp: 28016  
Ion Ratio Lower Upper  
84 100  
49 88.0 75.6 113.4  
51 28.7 24.2 36.2  
86 59.3 49.2 73.8





#25

2-Butanone

Concen: 1.033 ug/l

RT: 7.081 min Scan# 91

Delta R.T. 0.006 min

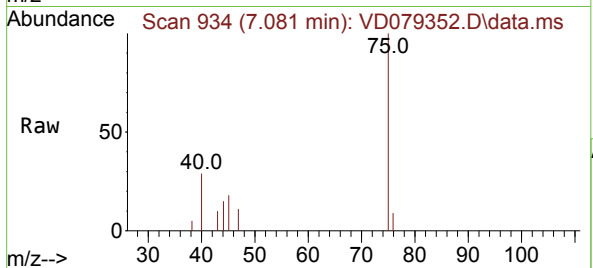
Lab File: VD079352.D

Acq: 08 Jul 2024 20:24

Instrument :

MSVOA\_D

ClientSampleId :

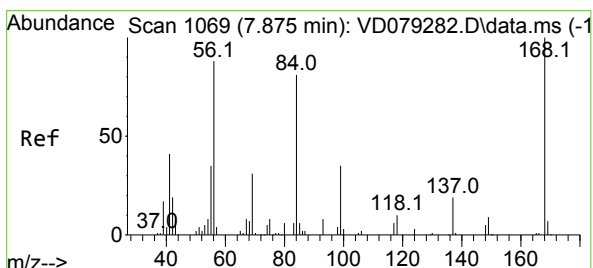
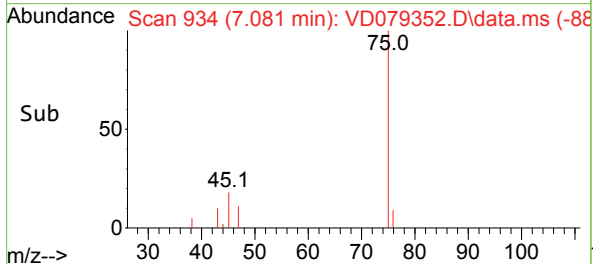
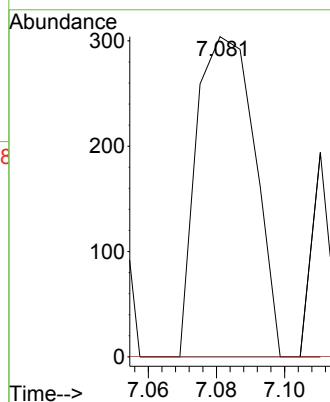


Tgt Ion: 43 Resp: 359

Ion Ratio Lower Upper

43 100

72 0.0 26.4 39.6#



#31

Cyclohexane

Concen: 1.164 ug/l

RT: 7.863 min Scan# 1067

Delta R.T. -0.012 min

Lab File: VD079352.D

Acq: 08 Jul 2024 20:24

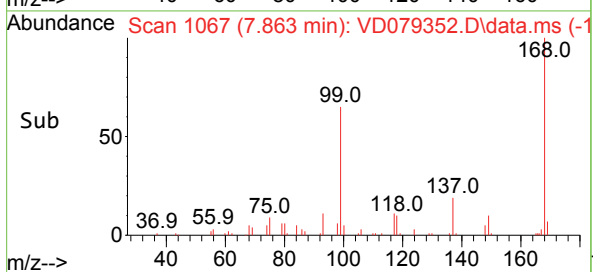
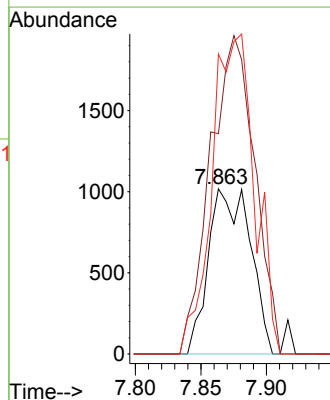
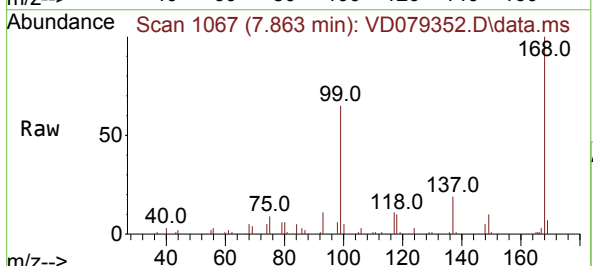
Tgt Ion: 56 Resp: 2264

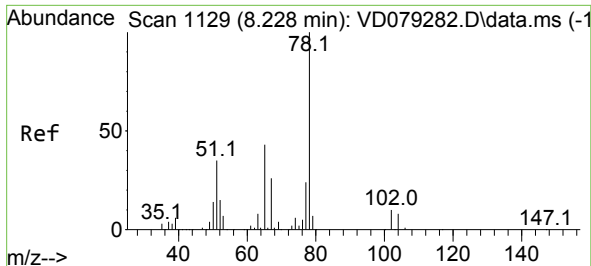
Ion Ratio Lower Upper

56 100

69 133.4 28.0 42.0#

84 181.6 87.4 131.0#





#33

1,2-Dichloroethane-d4

Concen: 53.553 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VD079352.D

Acq: 08 Jul 2024 20:24

Instrument :

MSVOA\_D

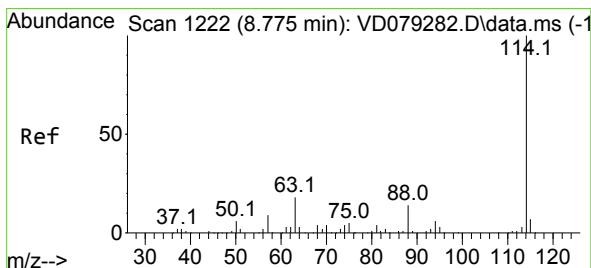
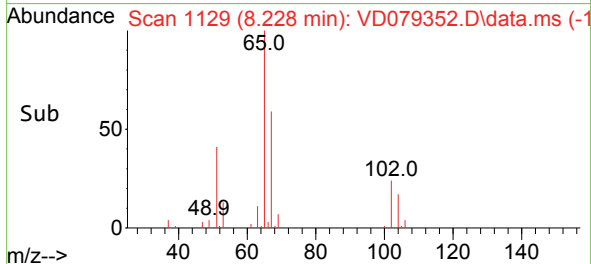
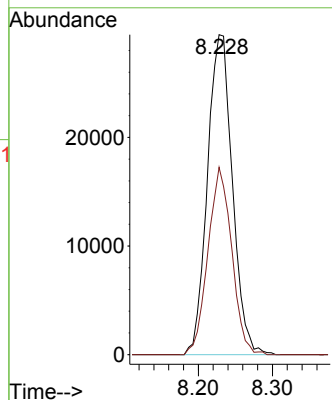
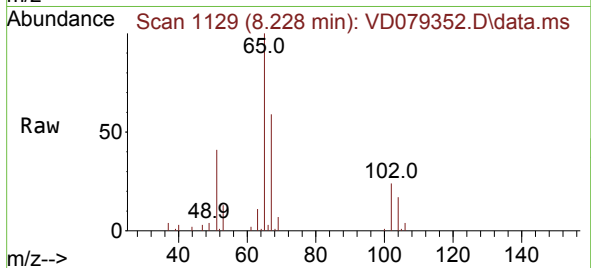
ClientSampleId :

Tgt Ion: 65 Resp: 68883

Ion Ratio Lower Upper

65 100

67 55.8 0.0 111.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VD079352.D

Acq: 08 Jul 2024 20:24

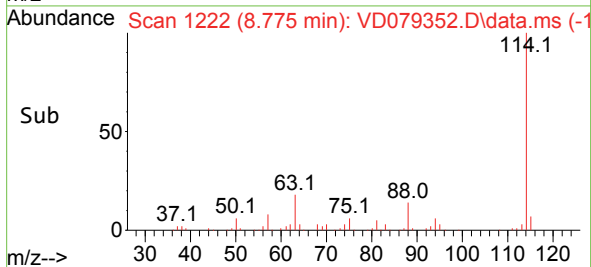
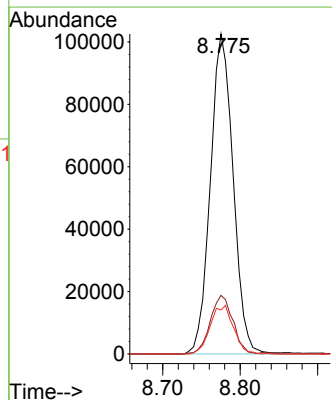
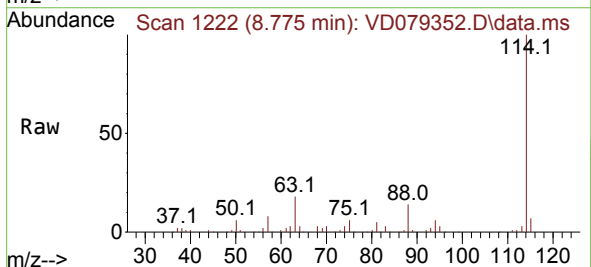
Tgt Ion:114 Resp: 209587

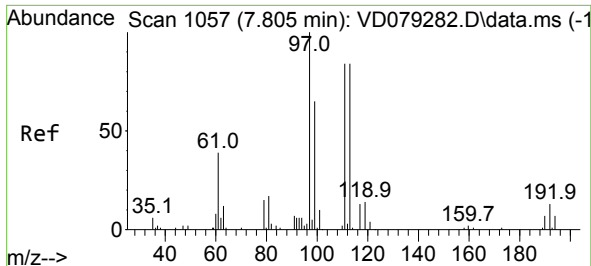
Ion Ratio Lower Upper

114 100

63 18.3 0.0 34.0

88 13.7 0.0 27.2





#35

Dibromofluoromethane

Concen: 54.090 ug/l

RT: 7.805 min Scan# 1057

Delta R.T. -0.000 min

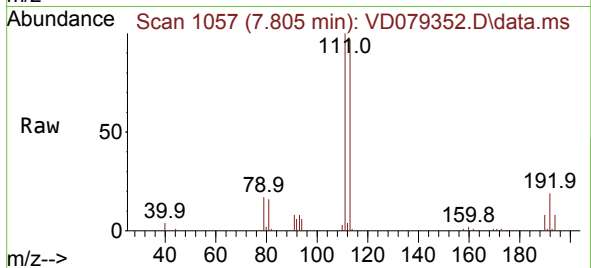
Lab File: VD079352.D

Acq: 08 Jul 2024 20:24

Instrument :

MSVOA\_D

ClientSampleId :



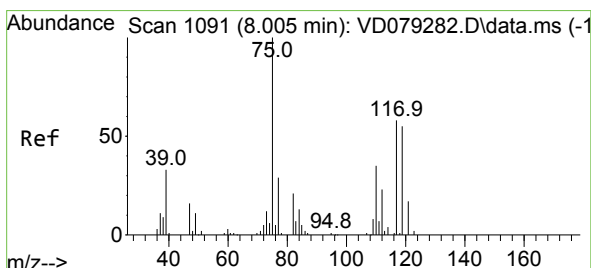
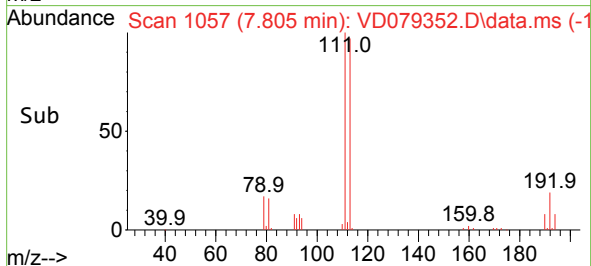
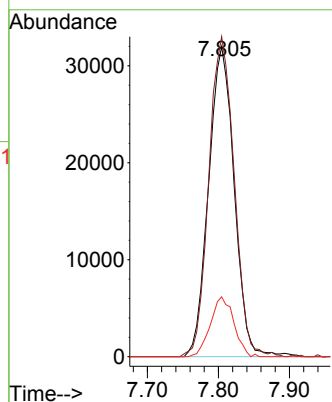
Tgt Ion:113 Resp: 79977

Ion Ratio Lower Upper

113 100

111 102.4 84.0 126.0

192 17.7 15.4 23.0



#36

1,1-Dichloropropene

Concen: 4.926 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.129 min

Lab File: VD079352.D

Acq: 08 Jul 2024 20:24

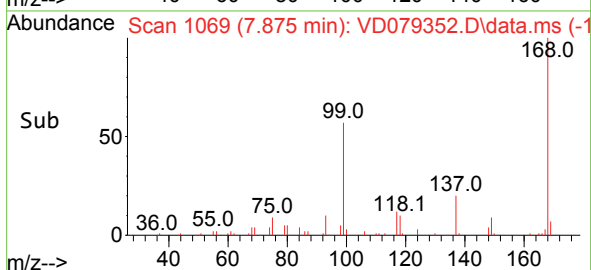
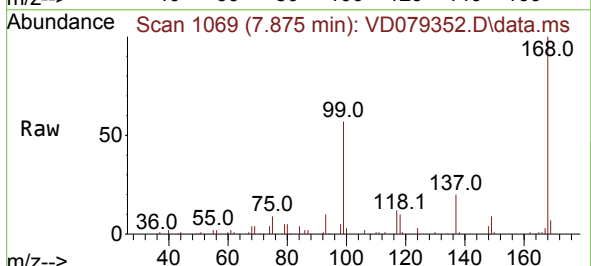
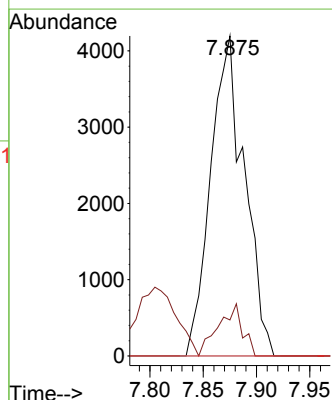
Tgt Ion: 75 Resp: 9252

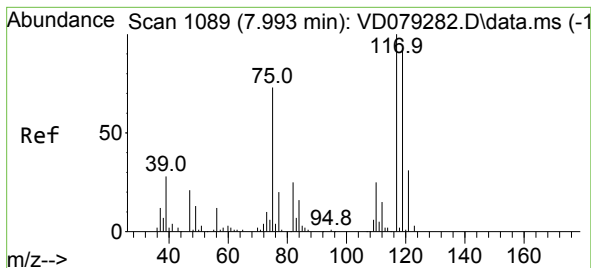
Ion Ratio Lower Upper

75 100

110 11.6 19.6 58.7#

77 0.0 26.1 39.1#





#38

Carbon Tetrachloride

Concen: 5.925 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.112 min

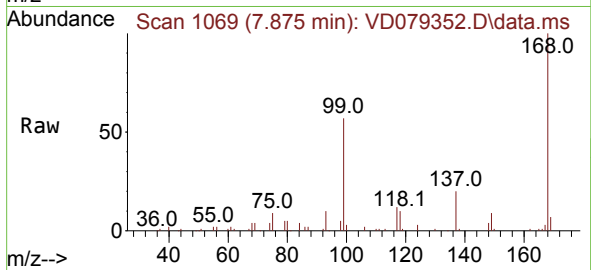
Lab File: VD079352.D

Acq: 08 Jul 2024 20:24

Instrument :

MSVOA\_D

ClientSampleId :



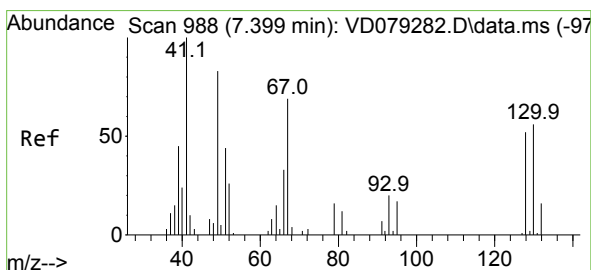
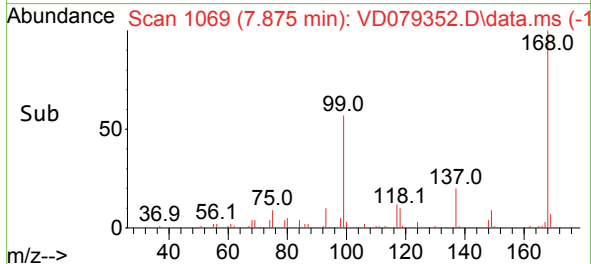
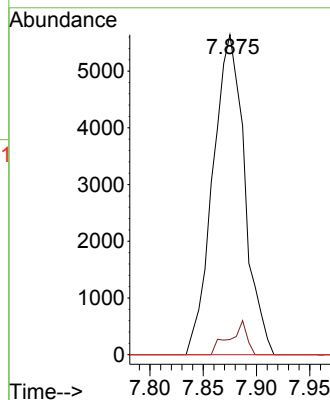
Tgt Ion:117 Resp: 11714

Ion Ratio Lower Upper

117 100

119 4.8 75.4 113.0#

121 0.0 25.0 37.4#



#41

Methacrylonitrile

Concen: 3.182 ug/l

RT: 7.534 min Scan# 1011

Delta R.T. 0.141 min

Lab File: VD079352.D

Acq: 08 Jul 2024 20:24

Tgt Ion: 41 Resp: 55

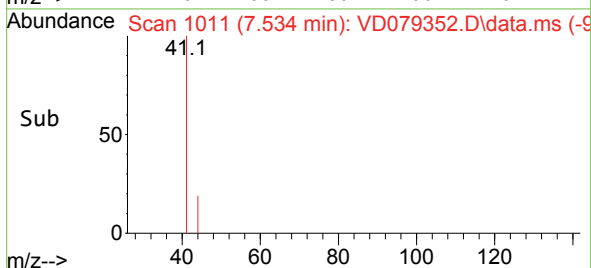
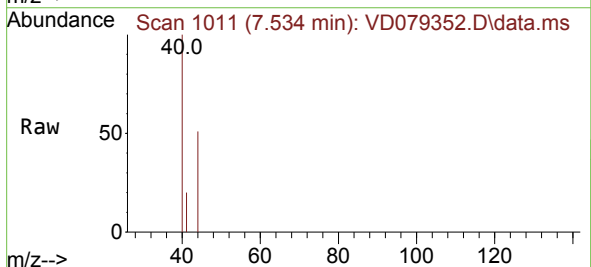
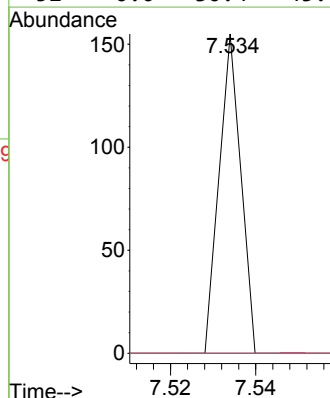
Ion Ratio Lower Upper

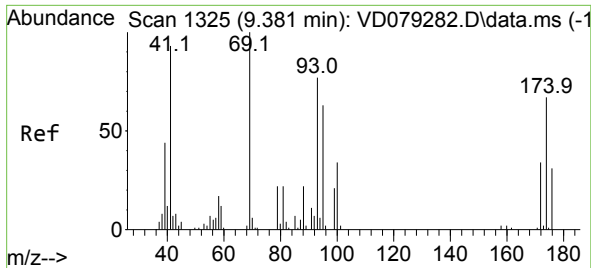
41 100

39 0.0 41.4 62.0#

67 0.0 85.8 128.6#

52 0.0 30.4 45.6#

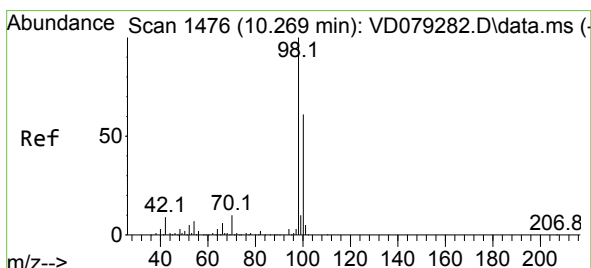
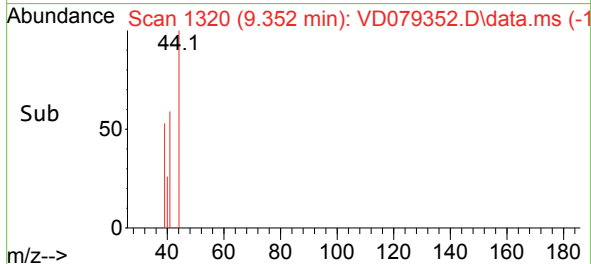
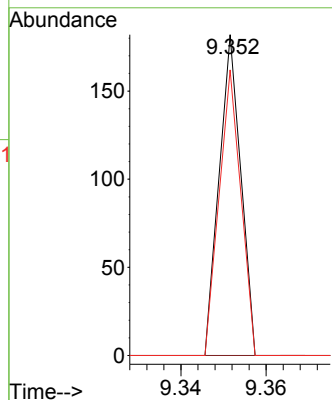
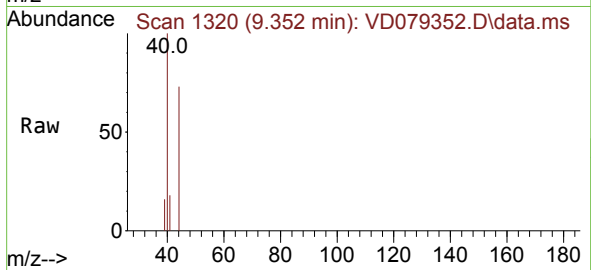




#48  
Methyl methacrylate  
Concen: 2.563 ug/l  
RT: 9.352 min Scan# 11  
Delta R.T. -0.023 min  
Lab File: VD079352.D  
Acq: 08 Jul 2024 20:24

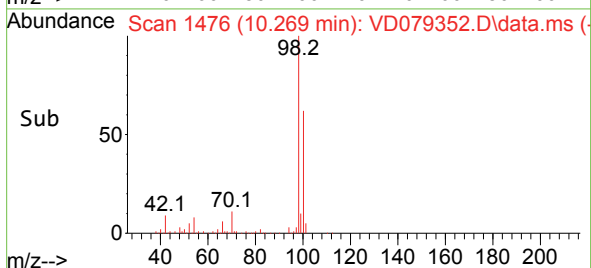
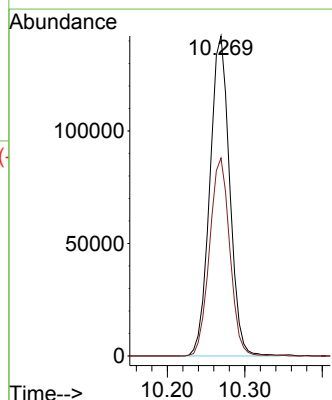
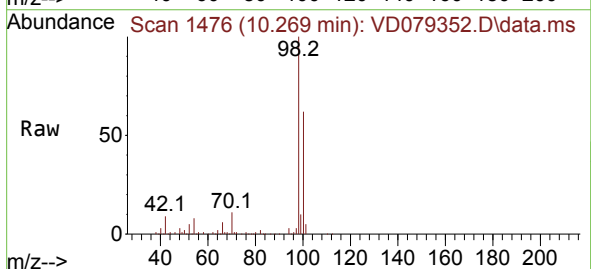
Instrument :  
MSVOA\_D  
ClientSampleId :

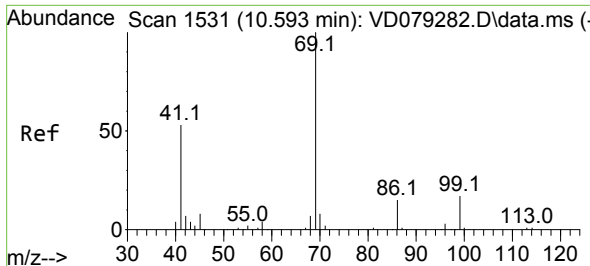
Tgt Ion: 41 Resp: 64  
Ion Ratio Lower Upper  
41 100  
69 0.0 96.7 145.1#  
39 89.1 43.8 65.6#



#50  
Toluene-d8  
Concen: 44.338 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VD079352.D  
Acq: 08 Jul 2024 20:24

Tgt Ion: 98 Resp: 252715  
Ion Ratio Lower Upper  
98 100  
100 62.9 51.6 77.4

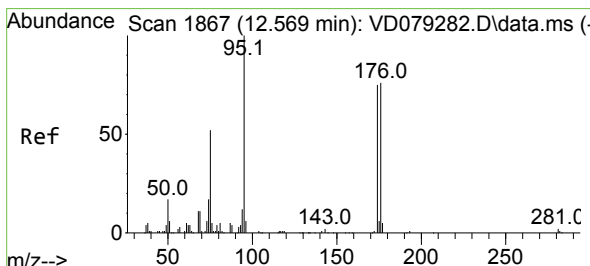
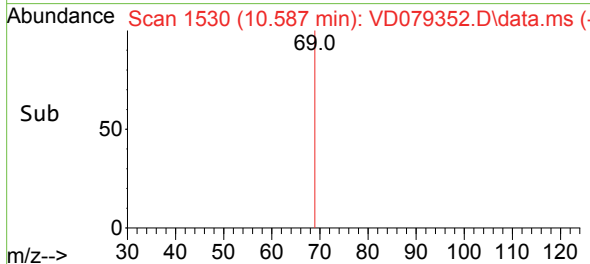
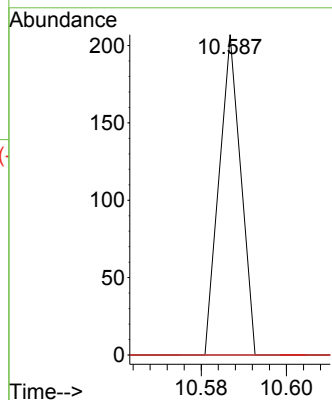
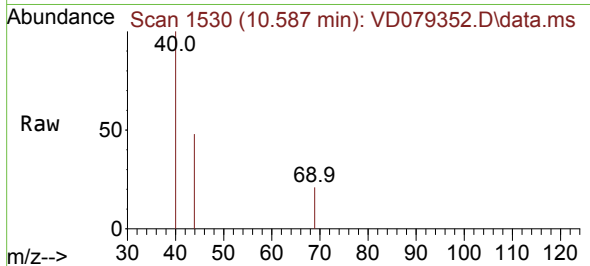




#56  
Ethyl methacrylate  
Concen: 3.244 ug/l  
RT: 10.587 min Scan# 1530  
Delta R.T. -0.006 min  
Lab File: VD079352.D  
Acq: 08 Jul 2024 20:24

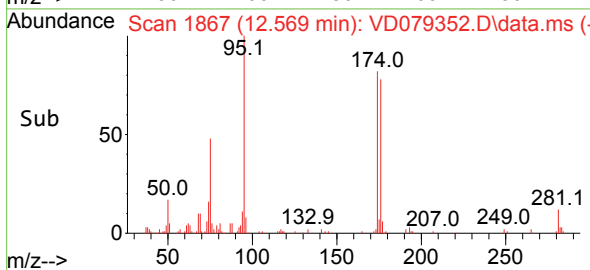
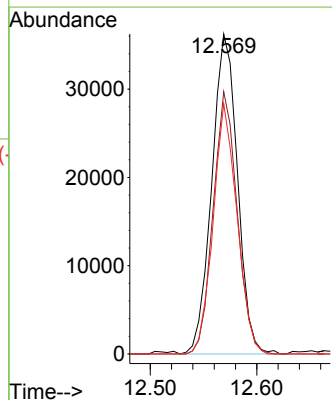
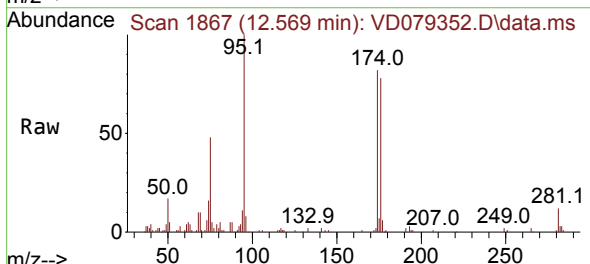
Instrument :  
MSVOA\_D  
ClientSampleId :

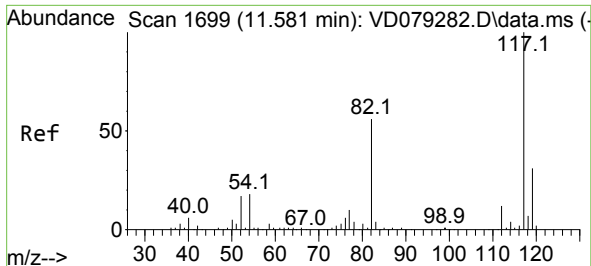
Tgt Ion: 69 Resp: 73  
Ion Ratio Lower Upper  
69 100  
41 0.0 39.8 59.6#  
39 0.0 20.2 30.4#



#62  
4-Bromofluorobenzene  
Concen: 34.221 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.000 min  
Lab File: VD079352.D  
Acq: 08 Jul 2024 20:24

Tgt Ion: 95 Resp: 60623  
Ion Ratio Lower Upper  
95 100  
174 76.7 0.0 195.4  
176 72.7 0.0 192.6

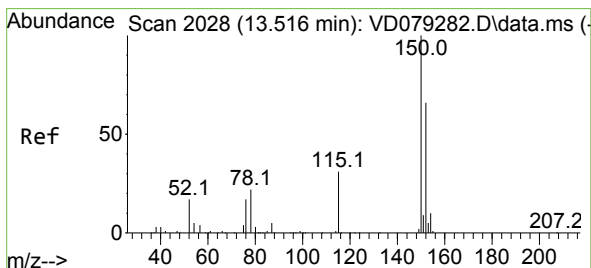
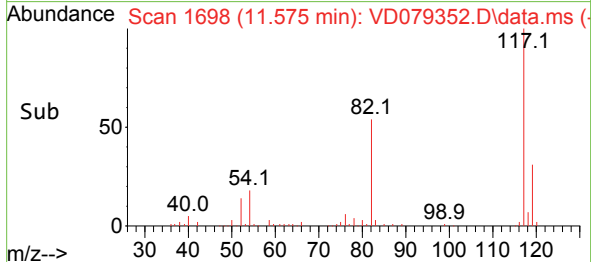
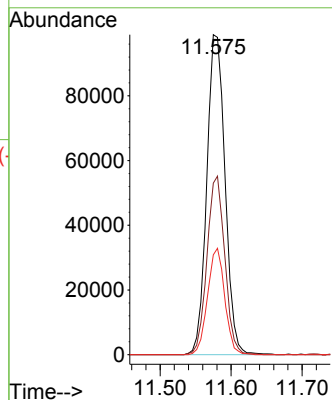
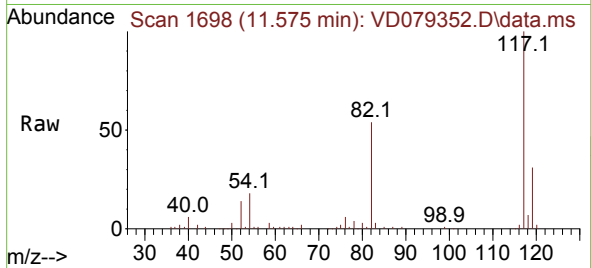




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.575 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VD079352.D  
Acq: 08 Jul 2024 20:24

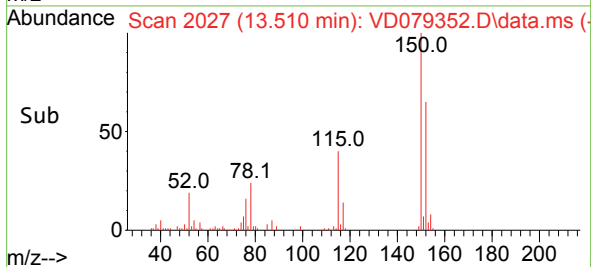
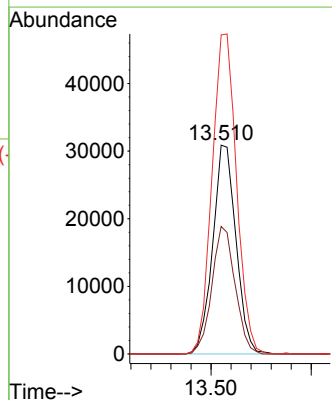
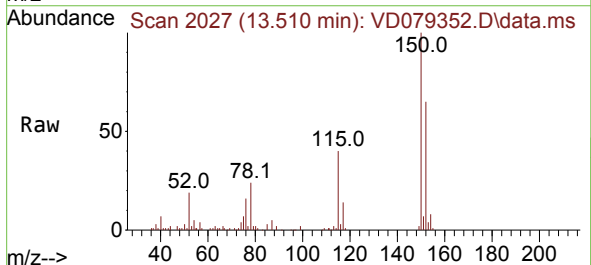
Instrument :  
MSVOA\_D  
ClientSampleId :

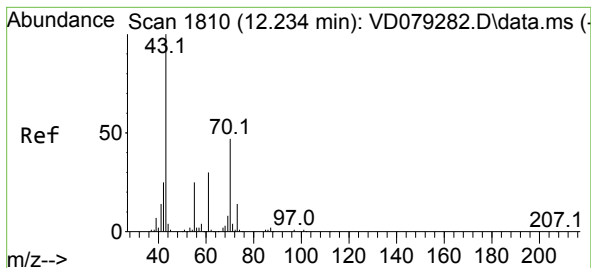
Tgt Ion:117 Resp: 177348  
Ion Ratio Lower Upper  
117 100  
82 53.6 39.8 59.6  
119 31.2 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.510 min Scan# 2027  
Delta R.T. -0.006 min  
Lab File: VD079352.D  
Acq: 08 Jul 2024 20:24

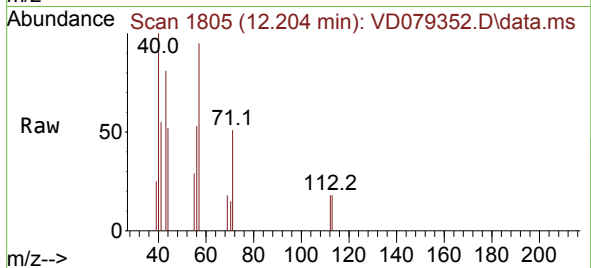
Tgt Ion:152 Resp: 49829  
Ion Ratio Lower Upper  
152 100  
115 60.6 26.5 79.5  
150 160.4 0.0 341.6



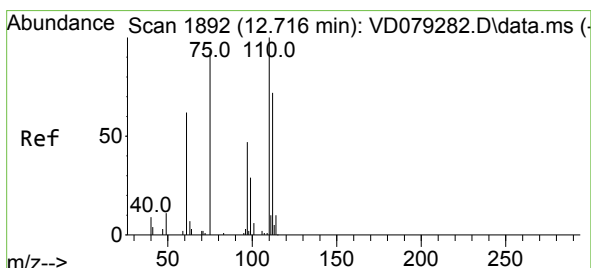
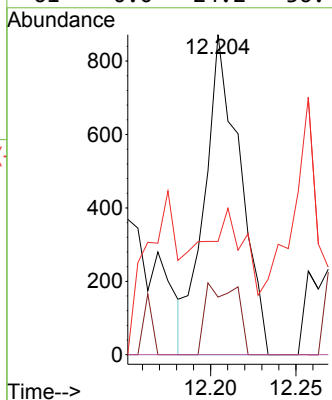
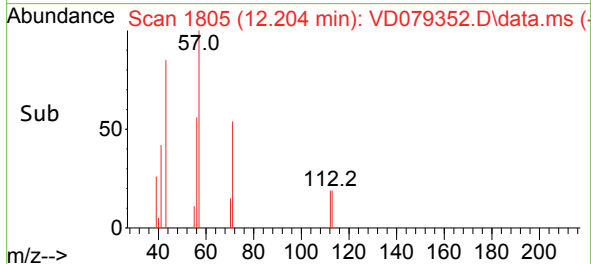


#74  
N-amy1 acetate  
Concen: 1.690 ug/l  
RT: 12.204 min Scan# 1805  
Delta R.T. -0.024 min  
Lab File: VD079352.D  
Acq: 08 Jul 2024 20:24

Instrument :  
MSVOA\_D  
ClientSampleId :

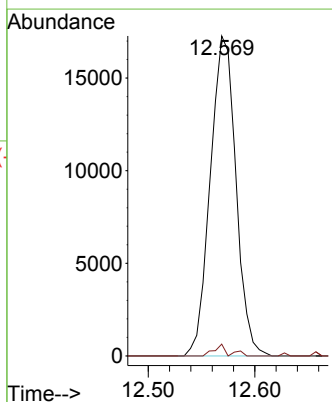
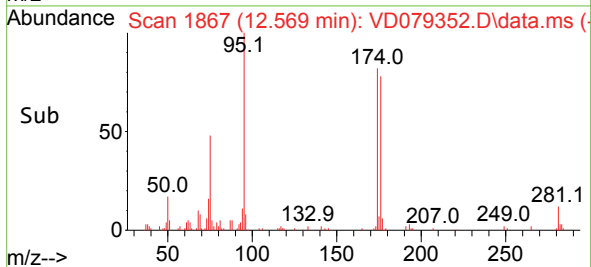
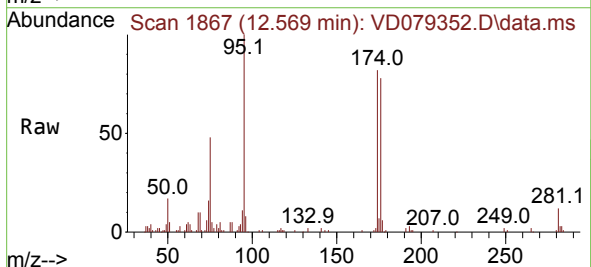


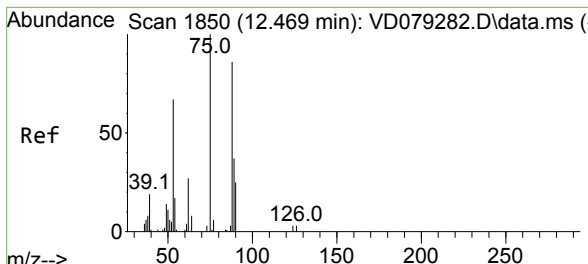
Tgt Ion: 43 Resp: 1263  
Ion Ratio Lower Upper  
43 100  
70 19.7 44.3 66.5#  
55 0.0 23.2 34.8#  
61 0.0 24.2 36.4#



#76  
1,2,3-Trichloropropane  
Concen: 60.268 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.153 min  
Lab File: VD079352.D  
Acq: 08 Jul 2024 20:24

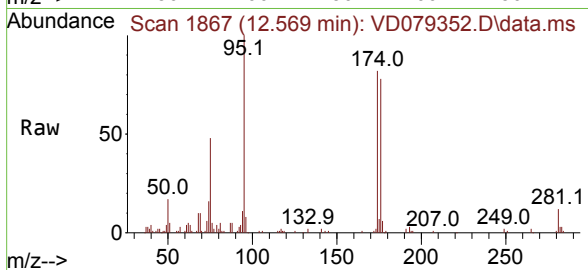
Tgt Ion: 75 Resp: 28854  
Ion Ratio Lower Upper  
75 100  
77 2.1 0.0 0.0#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 113.632 ug/l  
RT: 12.569 min Scan# 11  
Delta R.T. 0.100 min  
Lab File: VD079352.D  
Acq: 08 Jul 2024 20:24

Instrument :  
MSVOA\_D  
ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 28854 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 53       | 0.3   | 61.4  | 92.2# |
| 89       | 0.0   | 35.4  | 53.0# |

