

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102122\  
 Data File : VD074613.D  
 Acq On : 21 Oct 2022 14:03  
 Operator : VA/SY  
 Sample : N5202-01  
 Misc : 5.02G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SU-04-101922

Quant Time: Oct 21 23:10:36 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D101922S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 20 06:41:20 2022  
 Response via : Initial Calibration

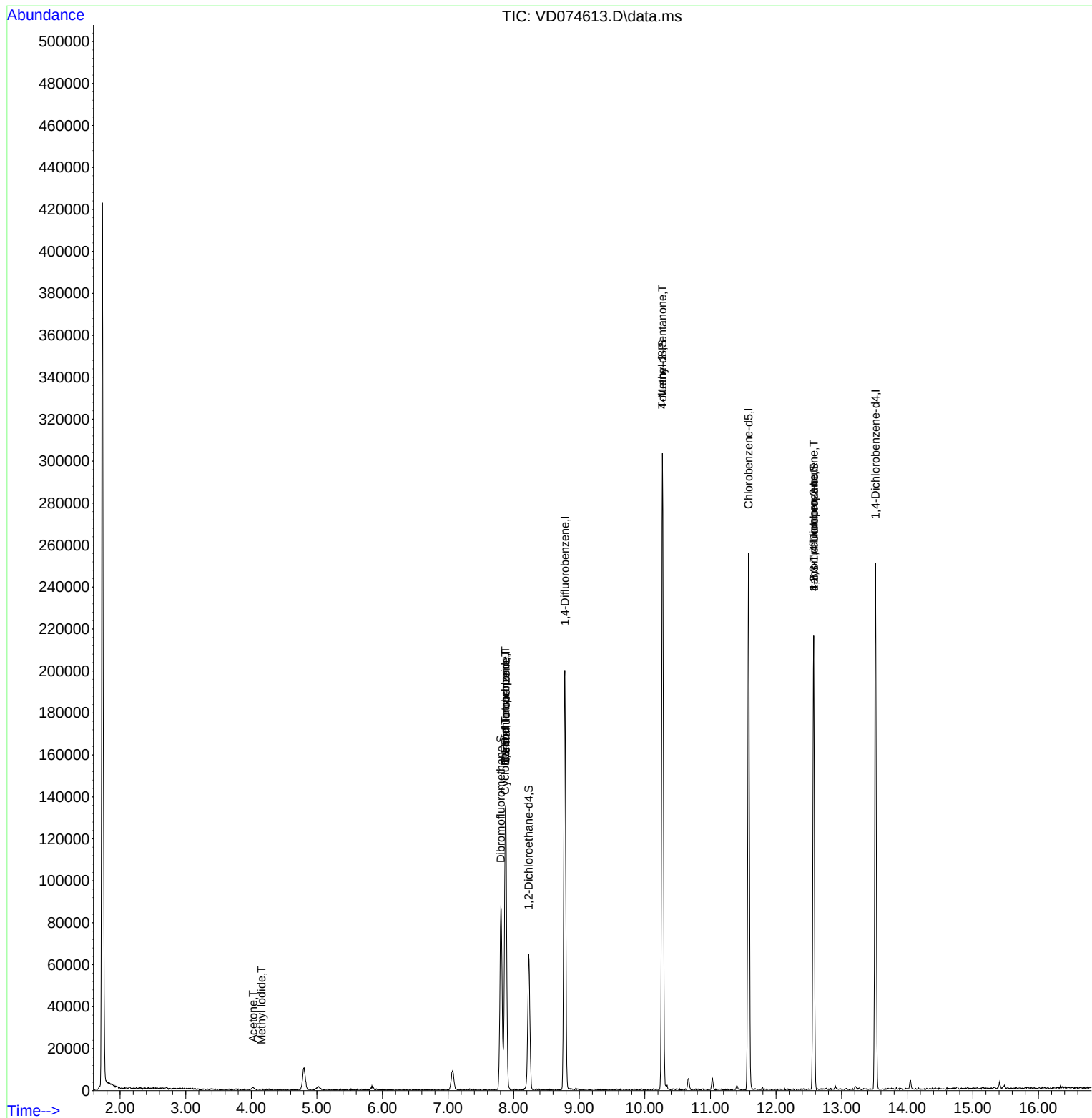
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.881  | 168   | 115772   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.781  | 114   | 197360   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.580 | 117   | 159160   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 69673    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.228  | 65    | 49071    | 55.517    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 111.040% |
| 35) Dibromofluoromethane      | 7.804  | 113   | 64665    | 59.344    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 118.680% |
| 50) Toluene-d8                | 10.269 | 98    | 224507   | 56.834    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 113.660% |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 60969    | 53.798    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 107.600% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 10) Methyl Iodide             | 4.157  | 142   | 60       | 3.974     | ug/l # | 43       |
| 11) Tert butyl alcohol        | 5.022  | 59    | 749      | Below Cal | #      | 84       |
| 16) Acetone                   | 4.028  | 43    | 1725     | 8.937     | ug/l # | 85       |
| 20) Methylene Chloride        | 4.798  | 84    | 9126     | Below Cal |        | 95       |
| 31) Cyclohexane               | 7.869  | 56    | 1966     | 1.107     | ug/l # | 30       |
| 36) 1,1-Dichloropropene       | 7.875  | 75    | 7593     | 4.283     | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 7.875  | 117   | 10424    | 6.004     | ug/l # | 18       |
| 51) 4-Methyl-2-Pentanone      | 10.269 | 43    | 598      | 1.156     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 31118    | 51.150    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 31118    | 130.715   | ug/l # | 17       |
| -----                         |        |       |          |           |        |          |

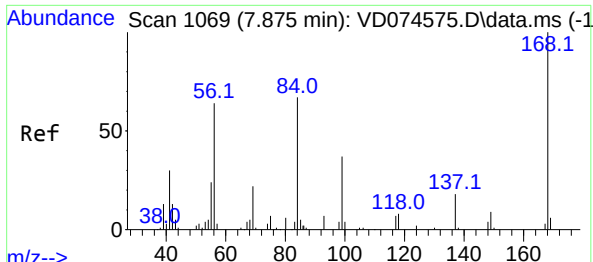
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-04-101922

Quant Time: Oct 21 23:10:36 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D101922S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 20 06:41:20 2022  
Response via : Initial Calibration

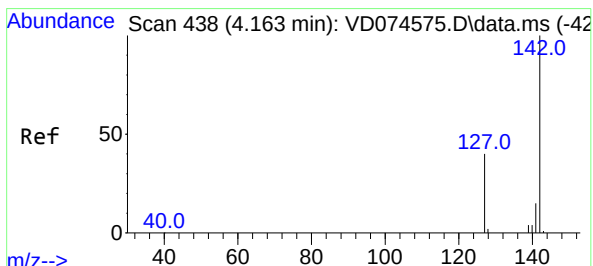
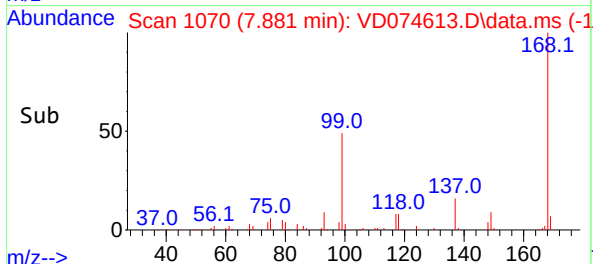
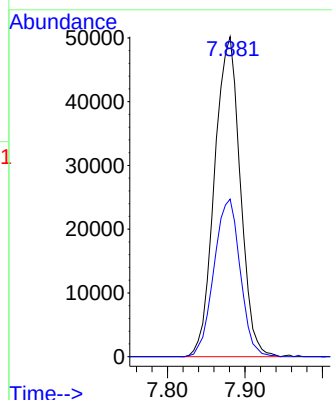
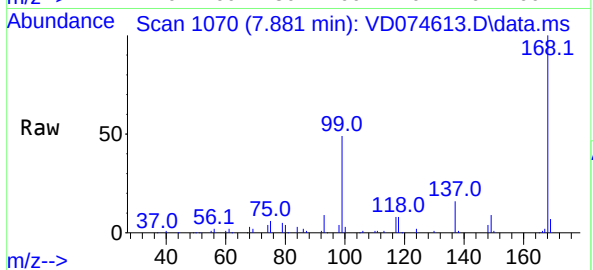




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.881 min Scan# 1069  
Delta R.T. 0.006 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

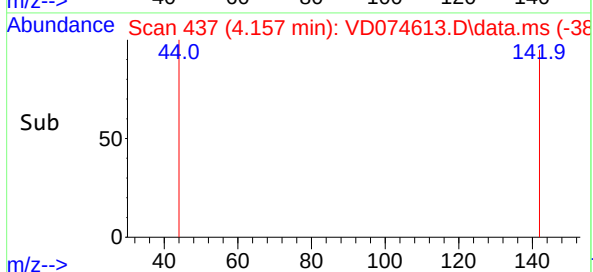
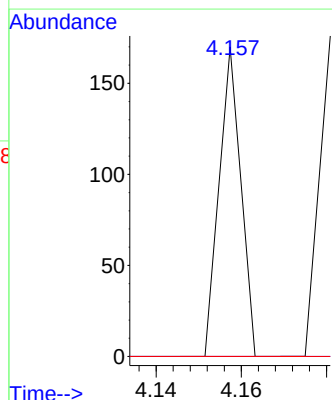
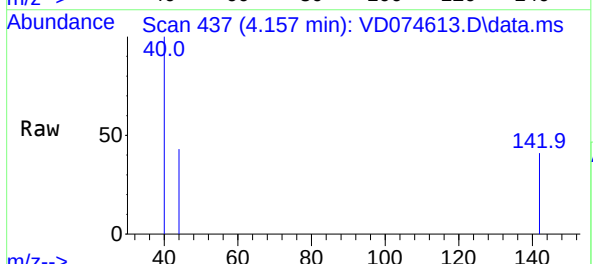
Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-04-101922

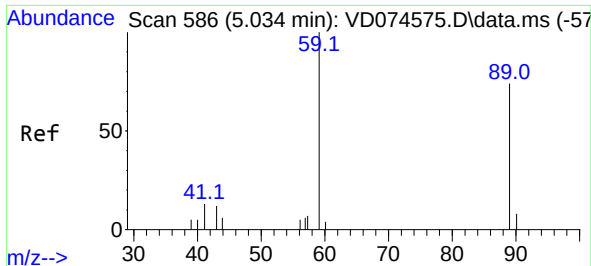
Tgt Ion:168 Resp: 115772  
Ion Ratio Lower Upper  
168 100  
99 49.2 40.9 61.3



#10  
Methyl Iodide  
Concen: 3.974 ug/l  
RT: 4.157 min Scan# 437  
Delta R.T. -0.001 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

Tgt Ion:142 Resp: 60  
Ion Ratio Lower Upper  
142 100  
127 0.0 31.9 47.9#  
141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.022 min Scan# 51

Delta R.T. -0.030 min

Lab File: VD074613.D

Acq: 21 Oct 2022 14:03

Instrument :

MSVOA\_D

ClientSampleId :

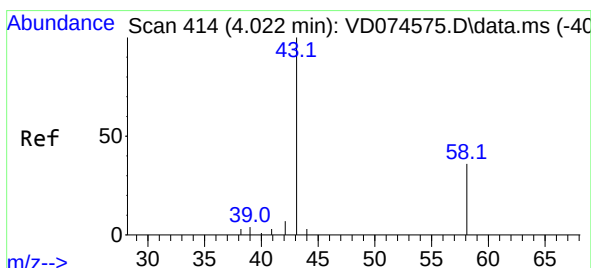
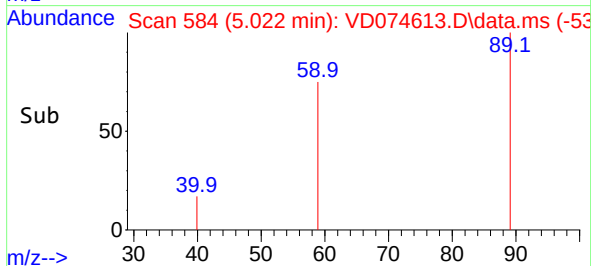
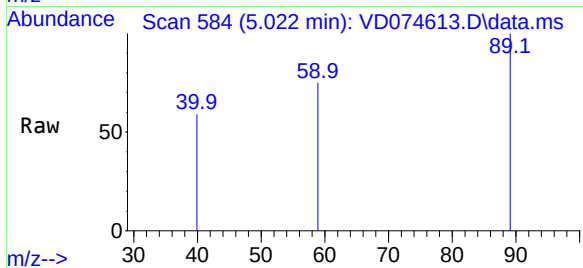
SU-04-101922

Tgt Ion: 59 Resp: 749

Ion Ratio Lower Upper

59 100

57 0.0 4.4 6.6#



#16

Acetone

Concen: 8.937 ug/l

RT: 4.028 min Scan# 415

Delta R.T. 0.006 min

Lab File: VD074613.D

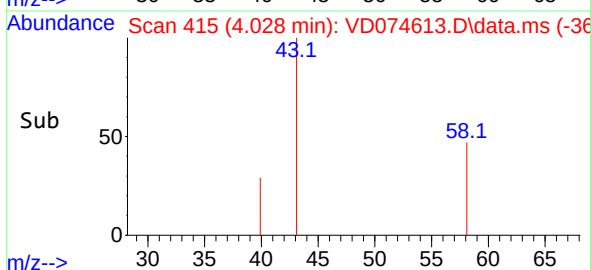
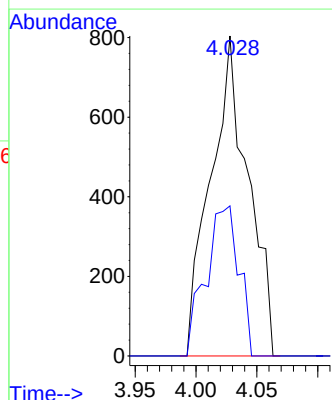
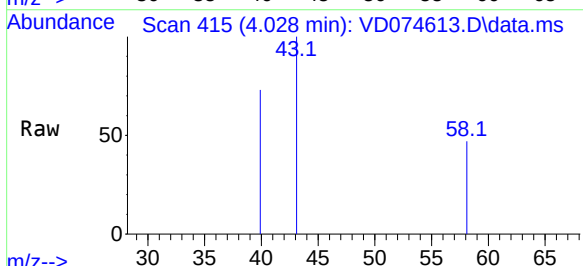
Acq: 21 Oct 2022 14:03

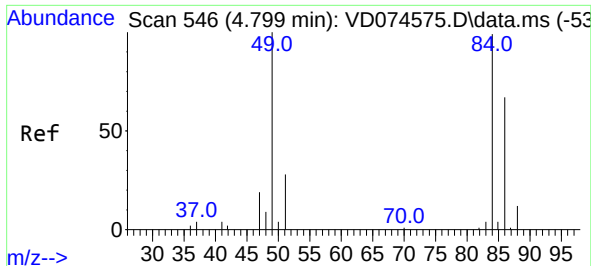
Tgt Ion: 43 Resp: 1725

Ion Ratio Lower Upper

43 100

58 46.9 30.2 45.2#

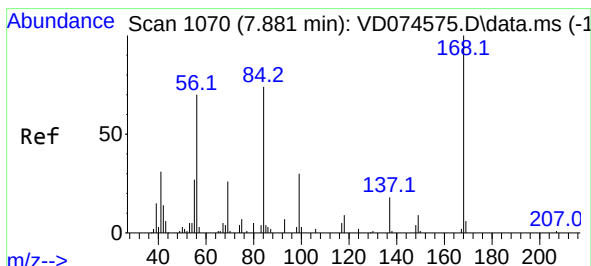
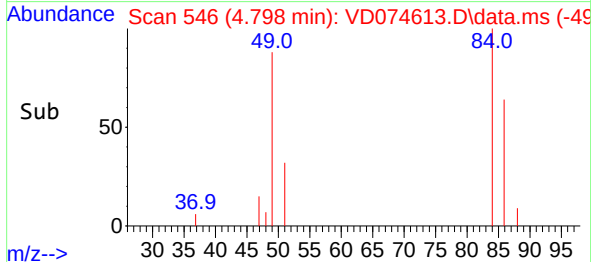
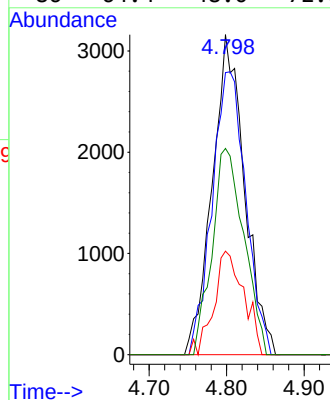
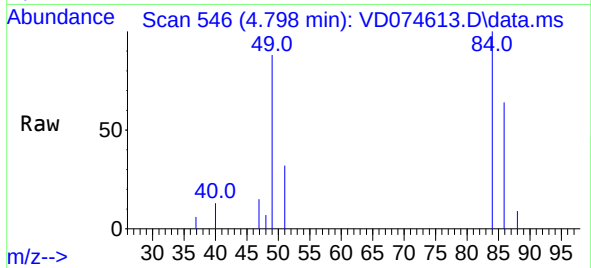




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.798 min Scan# 54  
Delta R.T. -0.001 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

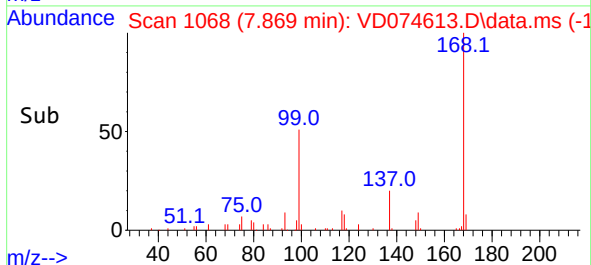
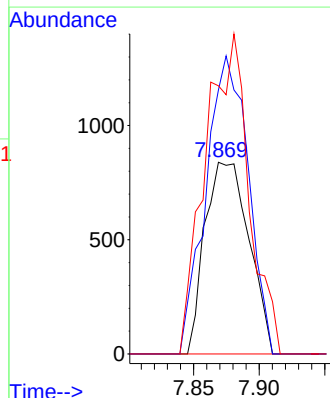
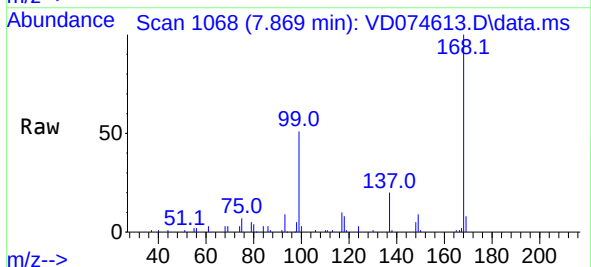
Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-04-101922

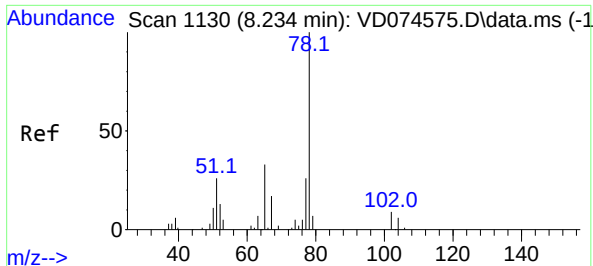
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 9126  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 88.2  | 68.0  | 102.0 |
| 51       | 32.4  | 23.2  | 34.8  |
| 86       | 64.4  | 48.0  | 72.0  |



#31  
Cyclohexane  
Concen: 1.107 ug/l  
RT: 7.869 min Scan# 1068  
Delta R.T. -0.006 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 1966   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 137.8 | 29.2  | 43.8#  |
| 84       | 139.9 | 83.4  | 125.2# |





#33

1,2-Dichloroethane-d4

Concen: 55.517 ug/l

RT: 8.228 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VD074613.D

Acq: 21 Oct 2022 14:03

Instrument :

MSVOA\_D

ClientSampleId :

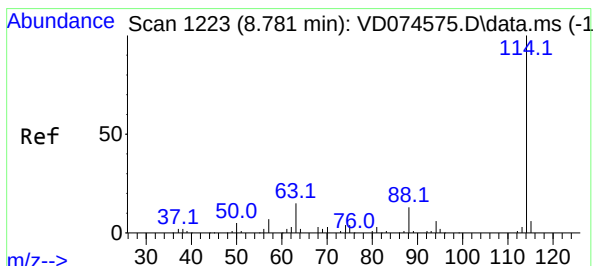
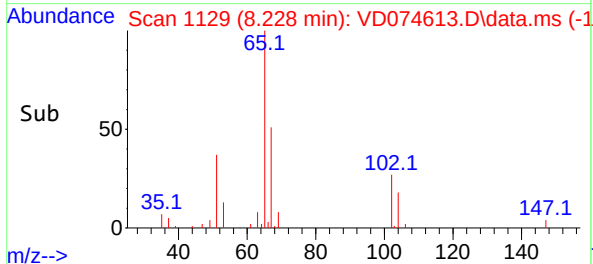
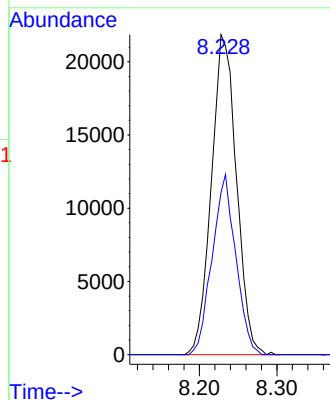
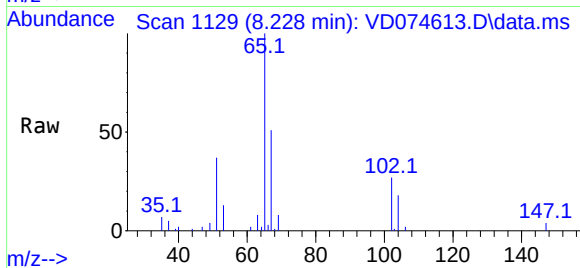
SU-04-101922

Tgt Ion: 65 Resp: 49071

Ion Ratio Lower Upper

65 100

67 53.0 0.0 110.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. 0.006 min

Lab File: VD074613.D

Acq: 21 Oct 2022 14:03

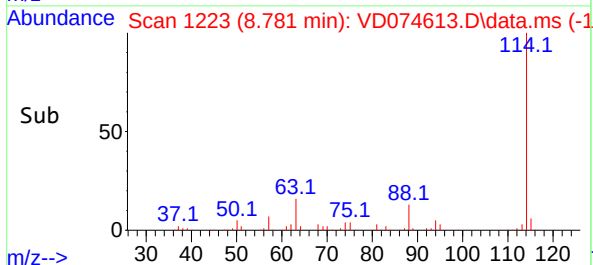
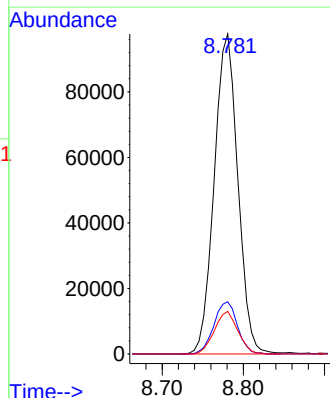
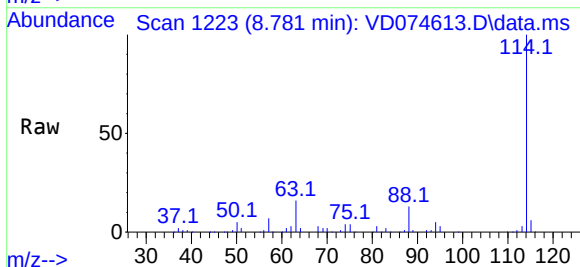
Tgt Ion: 114 Resp: 197360

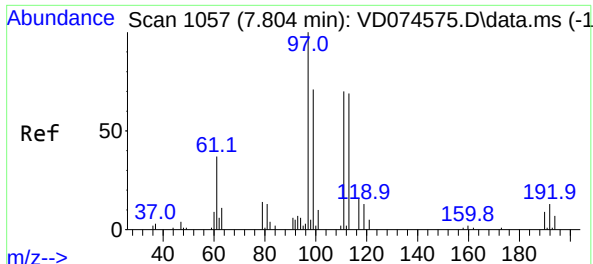
Ion Ratio Lower Upper

114 100

63 16.3 0.0 33.2

88 13.3 0.0 28.2



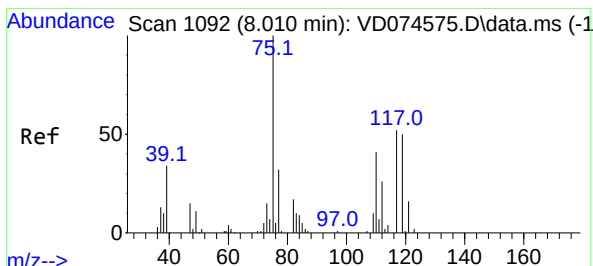
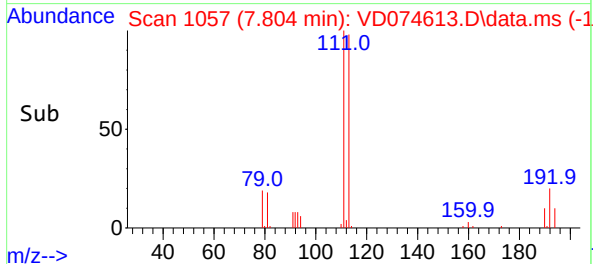
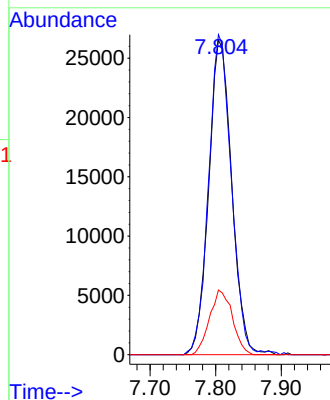
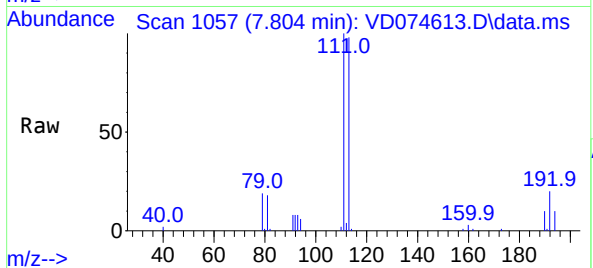


#35  
Dibromofluoromethane  
Concen: 59.344 ug/l  
RT: 7.804 min Scan# 1057  
Delta R.T. 0.000 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-04-101922

Tgt Ion: 113 Resp: 64665

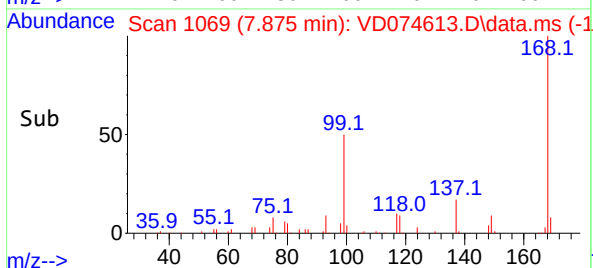
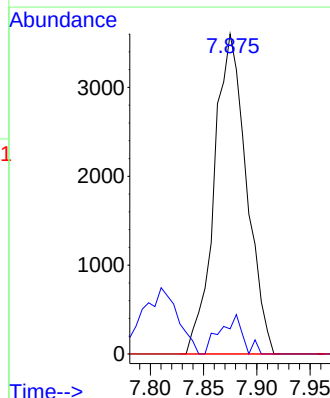
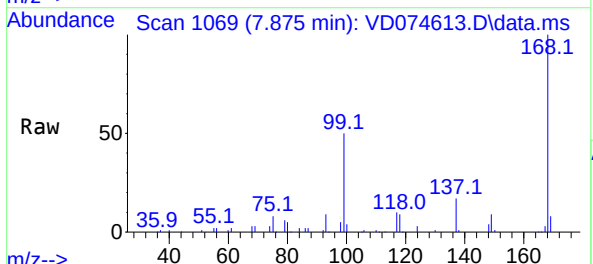
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 100.7 | 82.3  | 123.5 |
| 192 | 20.4  | 16.4  | 24.6  |

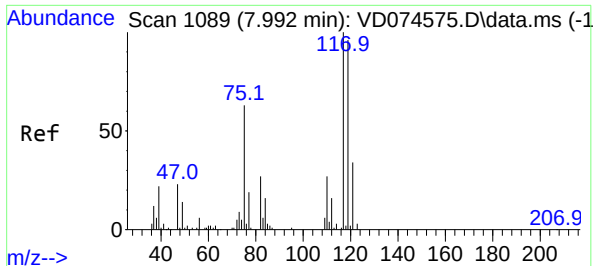


#36  
1,1-Dichloropropene  
Concen: 4.283 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.129 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

Tgt Ion: 75 Resp: 7593

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 8.7   | 19.7  | 59.0# |
| 77  | 0.0   | 25.4  | 38.2# |

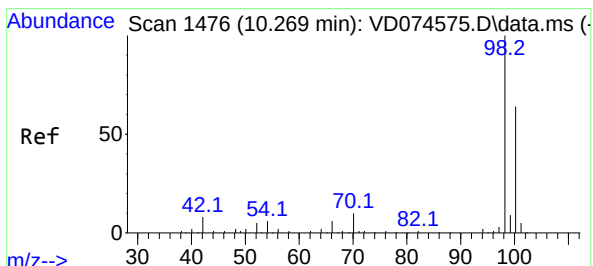
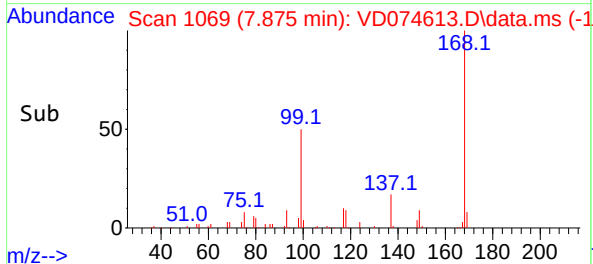
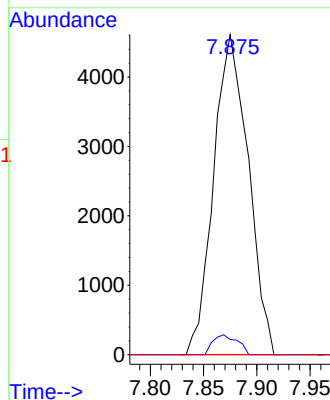
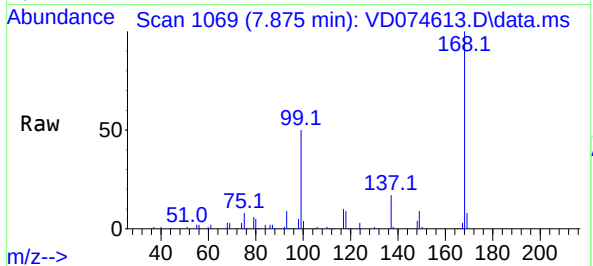




#38  
Carbon Tetrachloride  
Concen: 6.004 ug/l  
RT: 7.875 min Scan# 1089  
Delta R.T. -0.112 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

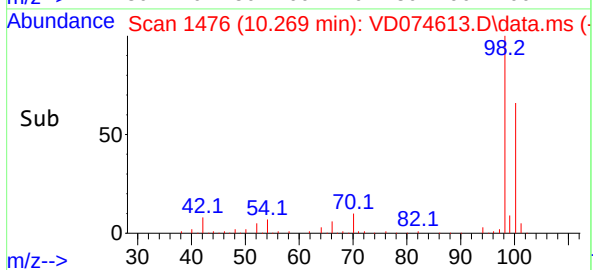
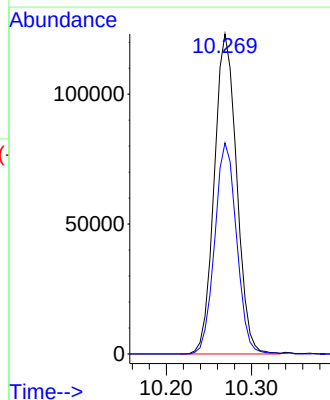
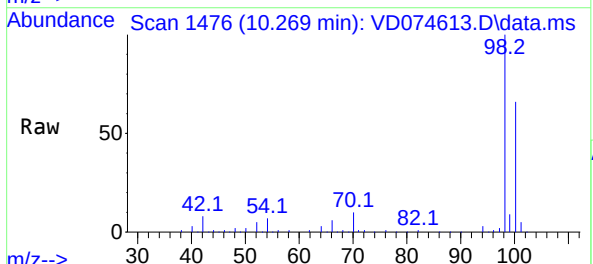
Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-04-101922

Tgt Ion:117 Resp: 10424  
Ion Ratio Lower Upper  
117 100  
119 4.8 73.1 109.7#  
121 0.0 25.0 37.6#

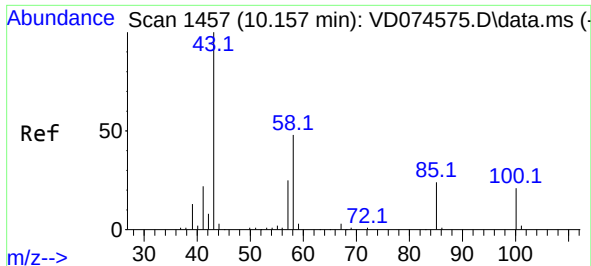


#50  
Toluene-d8  
Concen: 56.834 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

Tgt Ion: 98 Resp: 224507  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.4 77.0



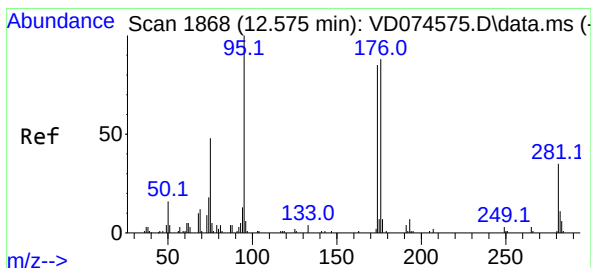
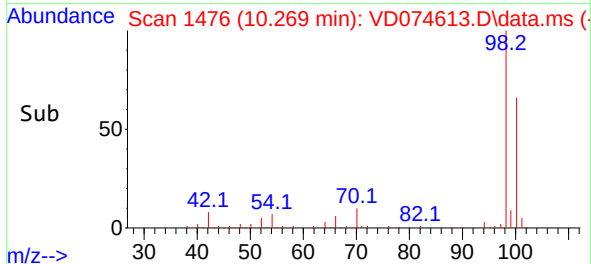
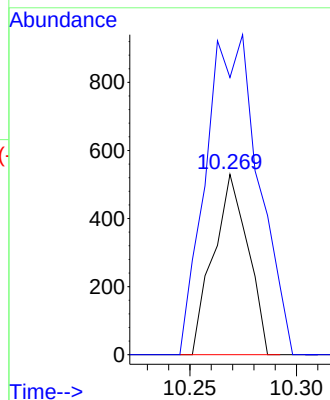
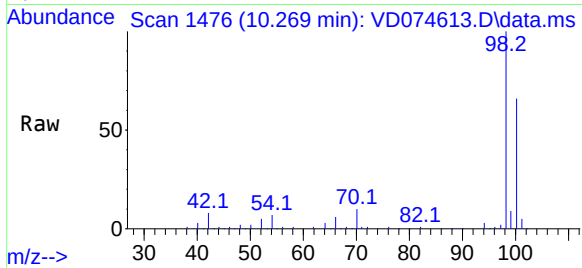




#51  
4-Methyl-2-Pentanone  
Concen: 1.156 ug/l  
RT: 10.269 min Scan# 1457  
Delta R.T. 0.112 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

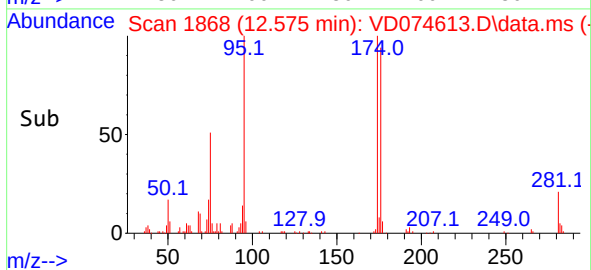
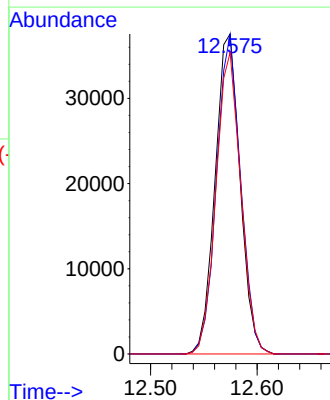
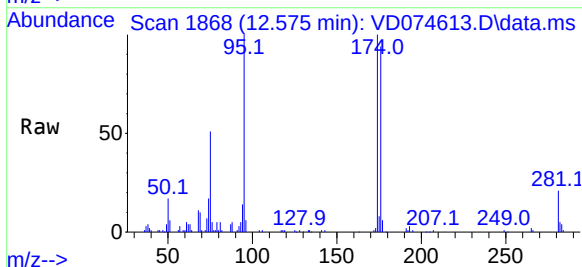
Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-04-101922

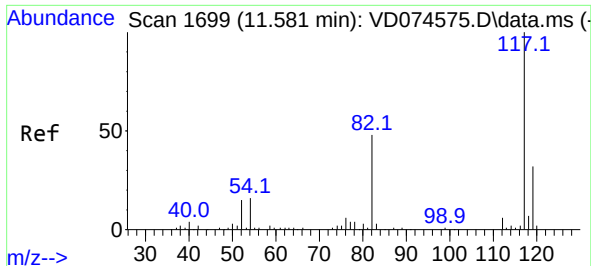
Tgt Ion: 43 Resp: 598  
Ion Ratio Lower Upper  
43 100  
58 271.4 37.8 56.6#



#62  
4-Bromofluorobenzene  
Concen: 53.798 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.006 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

Tgt Ion: 95 Resp: 60969  
Ion Ratio Lower Upper  
95 100  
174 96.4 0.0 197.0  
176 93.4 0.0 182.6

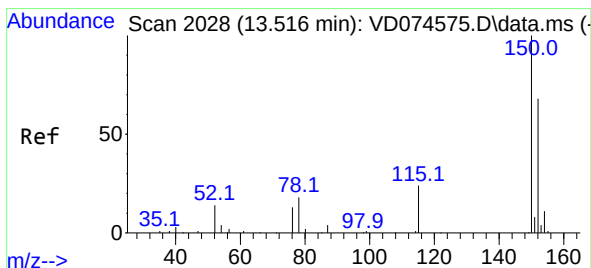
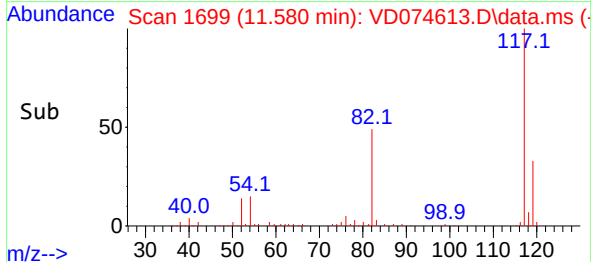
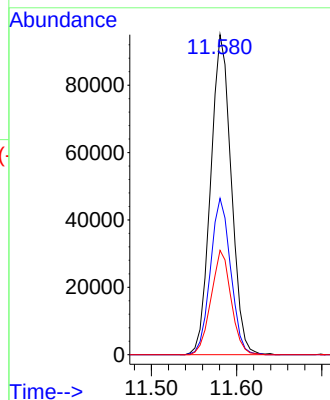
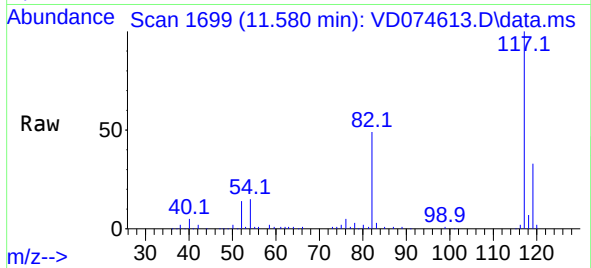




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.580 min Scan# 11  
Delta R.T. -0.001 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

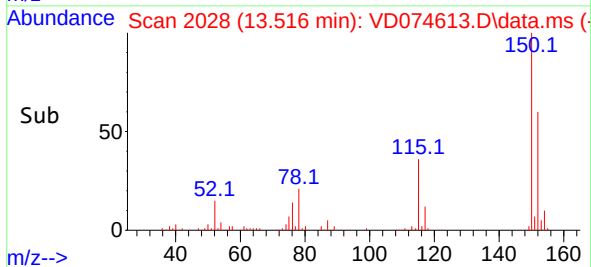
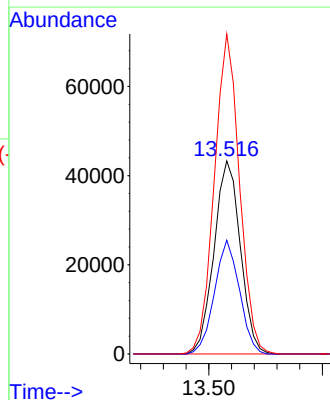
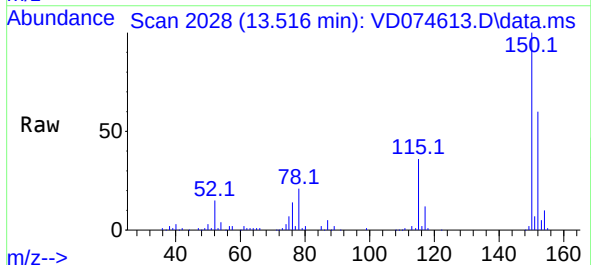
Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-04-101922

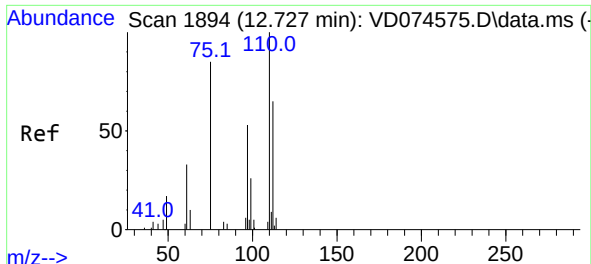
Tgt Ion:117 Resp: 159160  
Ion Ratio Lower Upper  
117 100  
82 48.9 41.6 62.4  
119 32.6 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. 0.006 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

Tgt Ion:152 Resp: 69673  
Ion Ratio Lower Upper  
152 100  
115 55.8 26.8 80.4  
150 158.2 0.0 348.2

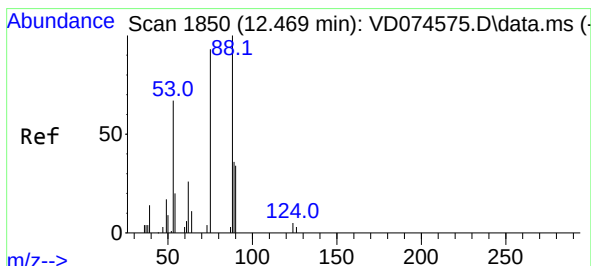
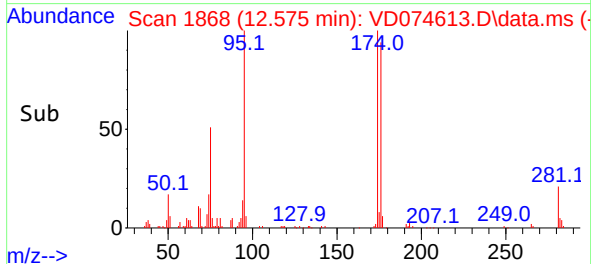
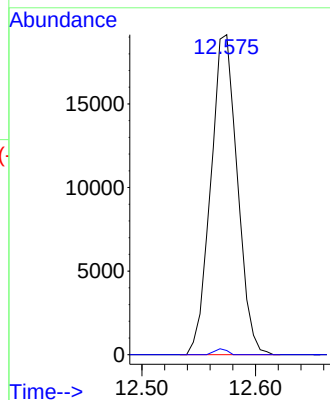
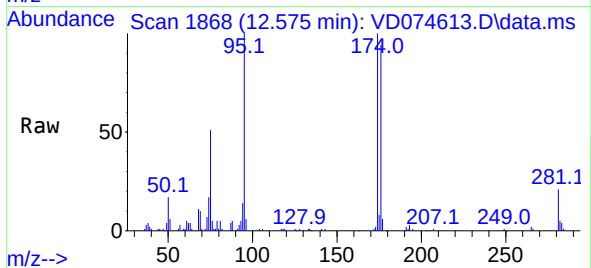




#76  
1,2,3-Trichloropropane  
Concen: 51.150 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.141 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

Instrument :  
MSVOA\_D  
ClientSampleId :  
SU-04-101922

Tgt Ion: 75 Resp: 31118  
Ion Ratio Lower Upper  
75 100  
77 0.9 185.8 557.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 130.715 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.112 min  
Lab File: VD074613.D  
Acq: 21 Oct 2022 14:03

Tgt Ion: 75 Resp: 31118  
Ion Ratio Lower Upper  
75 100  
53 0.0 63.8 95.6#  
89 0.0 38.2 57.4#

