

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122822\  
 Data File : VD075064.D  
 Acq On : 28 Dec 2022 14:27  
 Operator : KP/SY  
 Sample : N6220-04  
 Misc : 5.72G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-CR

Quant Time: Dec 29 03:50:39 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D12222S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 23 05:54:19 2022  
 Response via : Initial Calibration

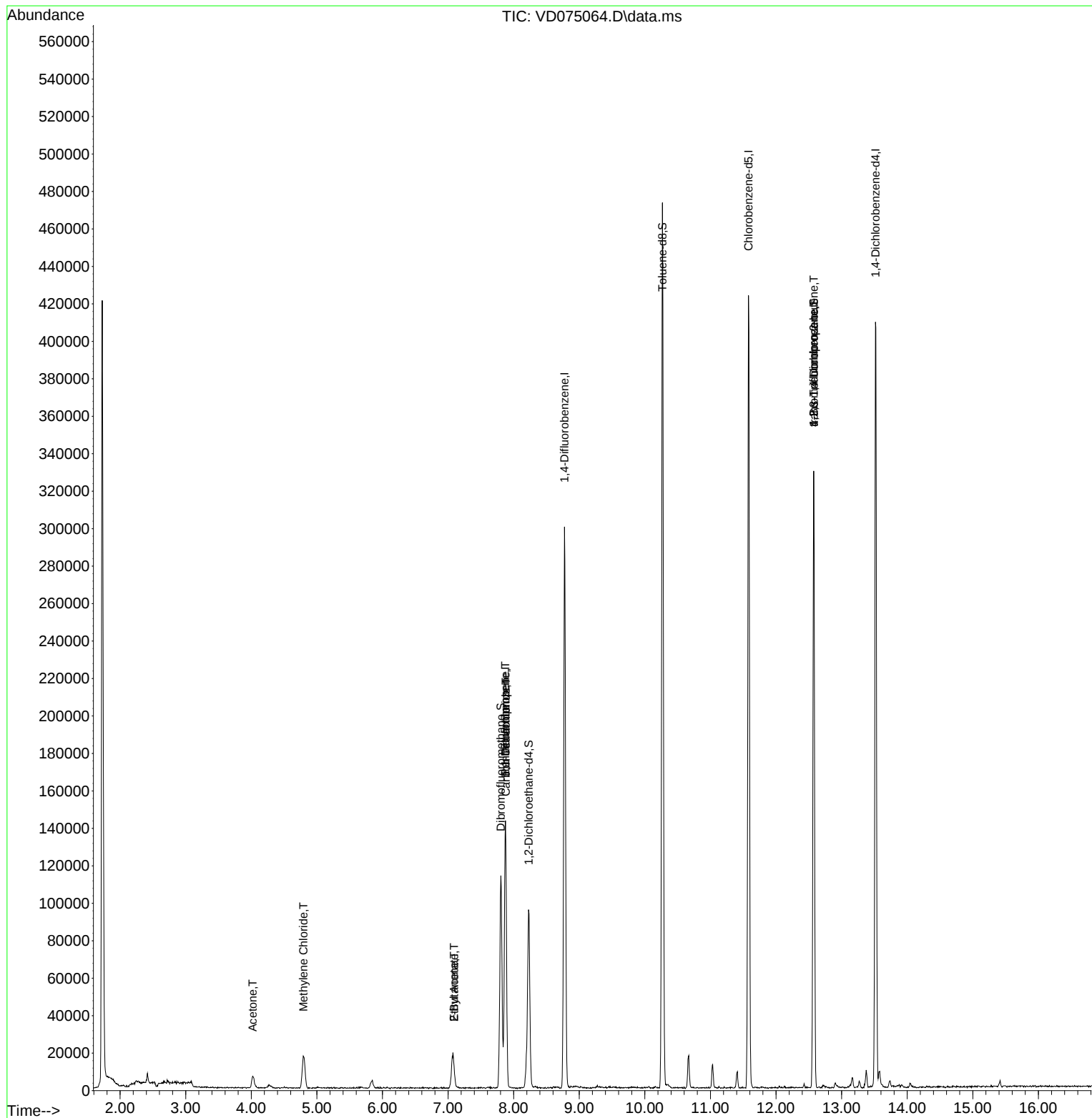
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.875  | 168   | 108682   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.775  | 114   | 266221   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.581 | 117   | 248211   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.516 | 152   | 109851   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.228  | 65    | 70971    | 66.807    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 133.620% |
| 35) Dibromofluoromethane      | 7.804  | 113   | 81785    | 52.207    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 104.420% |
| 50) Toluene-d8                | 10.269 | 98    | 322879   | 51.010    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 102.020% |
| 62) 4-Bromofluorobenzene      | 12.575 | 95    | 112316   | 54.773    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 109.540% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           |        | Qvalue   |
| 3) Chloromethane              | 2.146  | 50    | 440      | Below Cal | #      | 41       |
| 5) Bromomethane               | 2.699  | 94    | 256      | Below Cal |        | 83       |
| 11) Tert butyl alcohol        | 5.046  | 59    | 128      | Below Cal | #      | 84       |
| 16) Acetone                   | 4.022  | 43    | 11422    | 41.398    | ug/l   | 88       |
| 17) Carbon Disulfide          | 4.269  | 76    | 2407     | Below Cal | #      | 75       |
| 18) Methyl Acetate            | 4.575  | 43    | 133      | Below Cal | #      | 44       |
| 20) Methylene Chloride        | 4.793  | 84    | 13489    | 4.905     | ug/l # | 83       |
| 25) 2-Butanone                | 7.093  | 43    | 5100     | 13.851    | ug/l # | 73       |
| 31) Cyclohexane               | 7.869  | 56    | 2912     | Below Cal | #      | 34       |
| 36) 1,1-Dichloropropene       | 7.875  | 75    | 9012     | 4.454     | ug/l # | 47       |
| 37) Ethyl Acetate             | 7.093  | 43    | 5100     | 4.989     | ug/l # | 71       |
| 38) Carbon Tetrachloride      | 7.881  | 117   | 11266    | 6.439     | ug/l # | 16       |
| 76) 1,2,3-Trichloropropane    | 12.575 | 75    | 55602    | 49.365    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.575 | 75    | 55602    | 114.409   | ug/l # | 19       |
| -----                         |        |       |          |           |        |          |

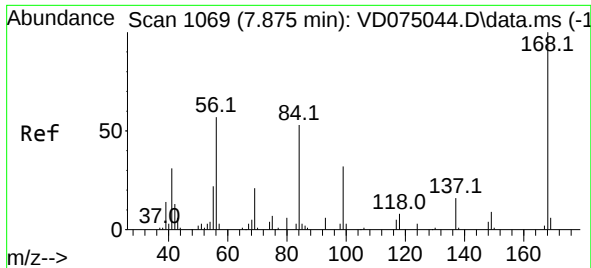
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122822\  
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Sample : N6220-04  
Misc : 5.72G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-CR

Quant Time: Dec 29 03:50:39 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122222S.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 23 05:54:19 2022  
Response via : Initial Calibration

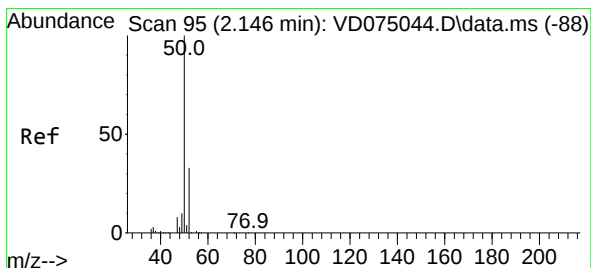
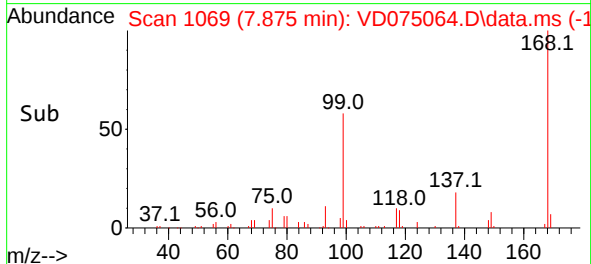
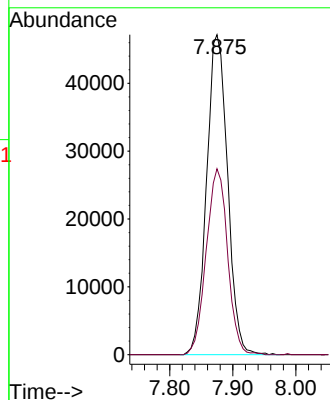
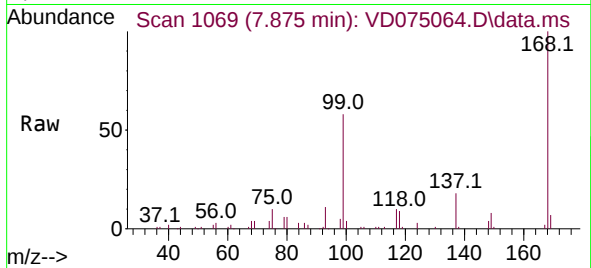




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.000 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

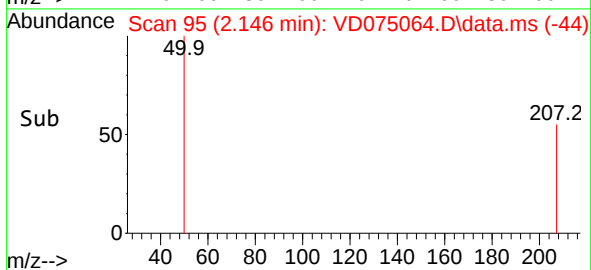
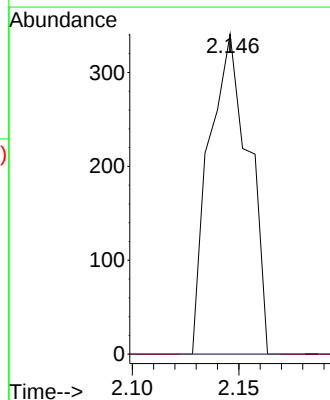
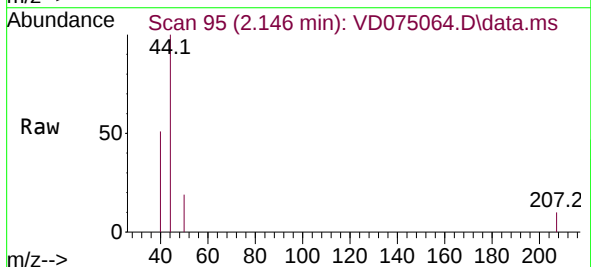
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-CR

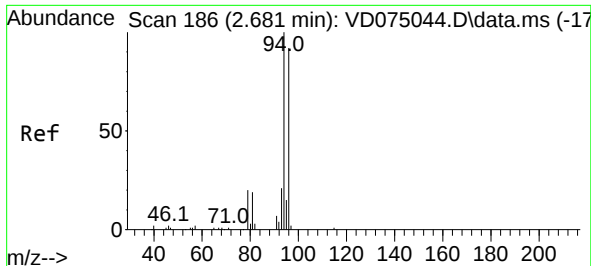
Tgt Ion:168 Resp: 108682  
Ion Ratio Lower Upper  
168 100  
99 58.1 40.3 60.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.146 min Scan# 95  
Delta R.T. -0.000 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

Tgt Ion: 50 Resp: 440  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.2 40.8#

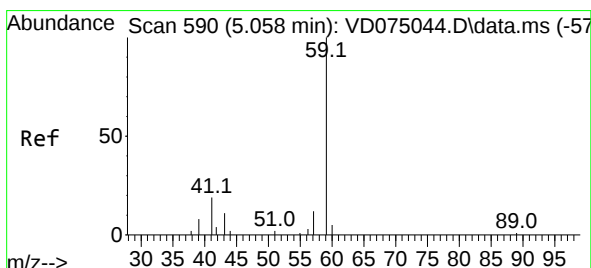
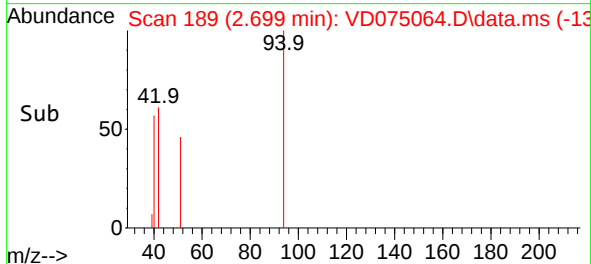
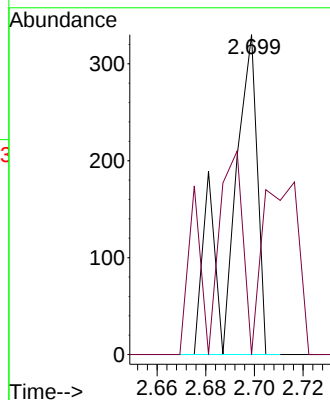
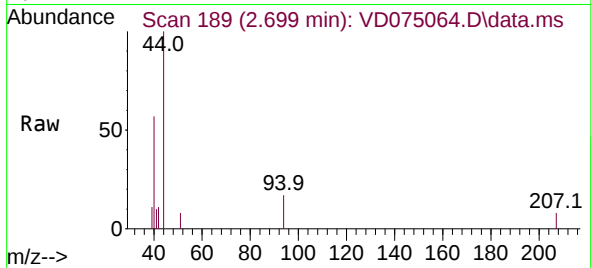




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.699 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

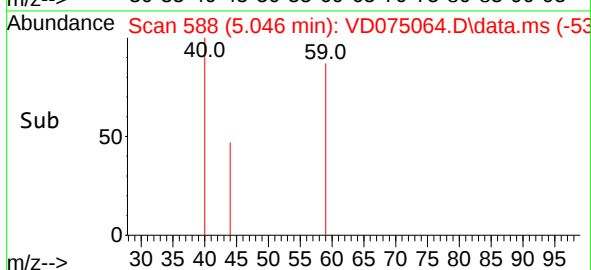
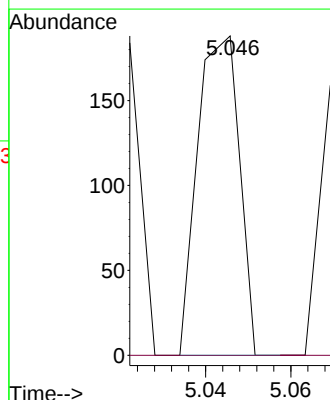
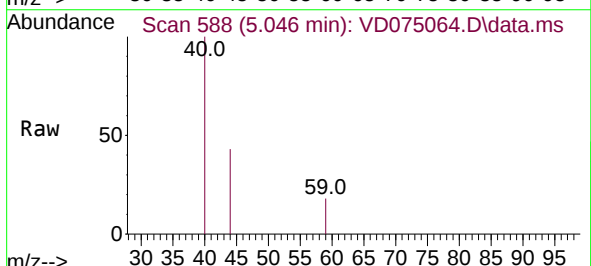
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-CR

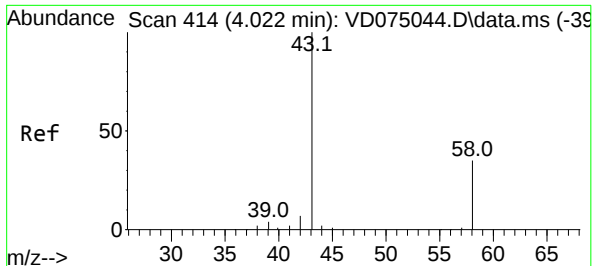
Tgt Ion: 94 Resp: 256  
Ion Ratio Lower Upper  
94 100  
96 77.3 75.2 112.8



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.046 min Scan# 588  
Delta R.T. -0.006 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

Tgt Ion: 59 Resp: 128  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.3 6.5#

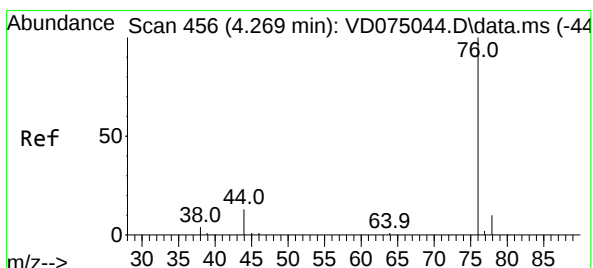
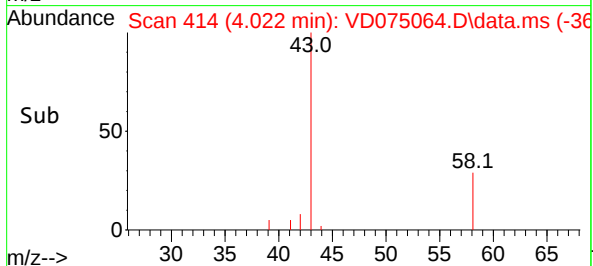
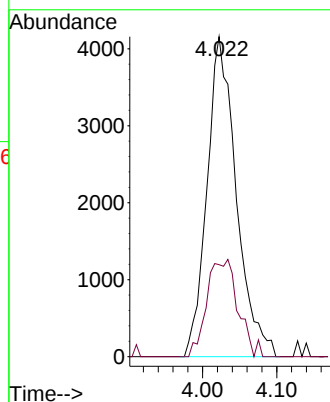
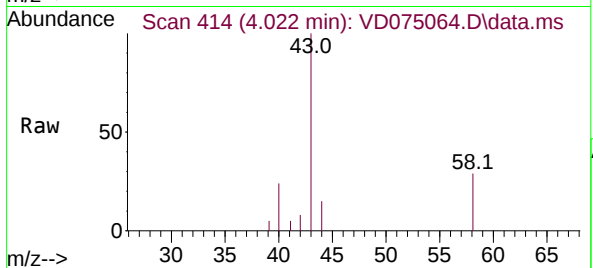




#16  
Acetone  
Concen: 41.398 ug/l  
RT: 4.022 min Scan# 414  
Delta R.T. 0.000 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

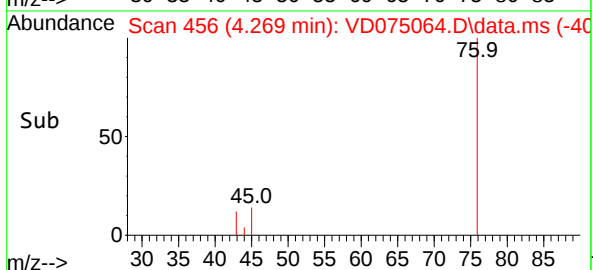
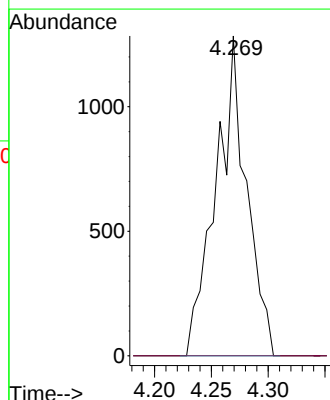
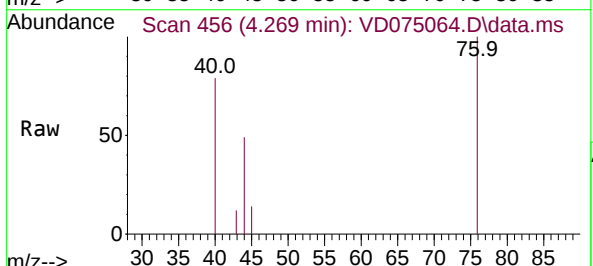
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-CR

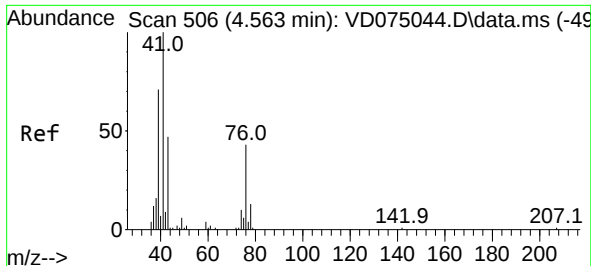
Tgt Ion: 43 Resp: 11422  
Ion Ratio Lower Upper  
43 100  
58 28.8 28.6 43.0



#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.269 min Scan# 456  
Delta R.T. 0.005 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

Tgt Ion: 76 Resp: 2407  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#

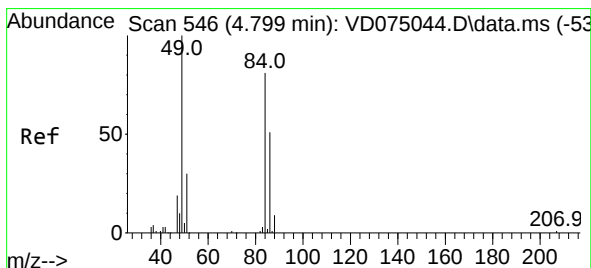
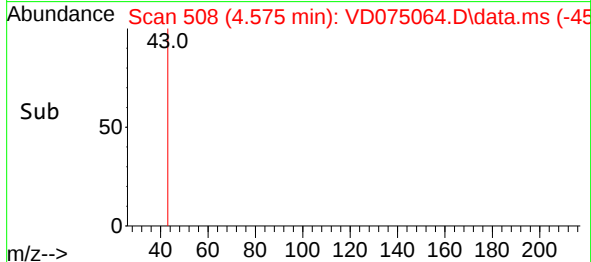
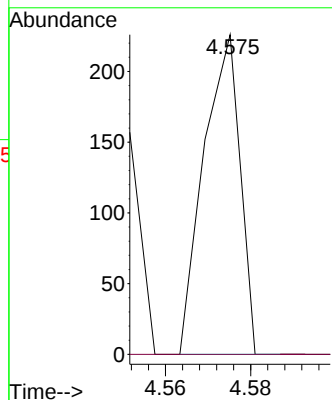
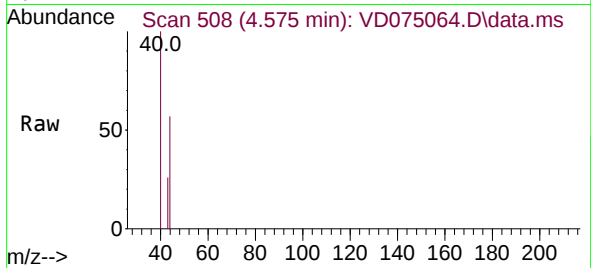




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.575 min Scan# 50  
Delta R.T. 0.011 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

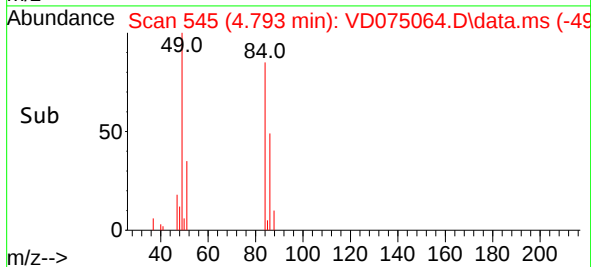
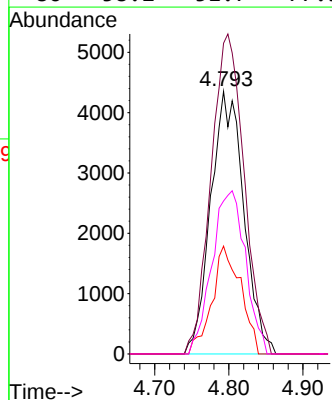
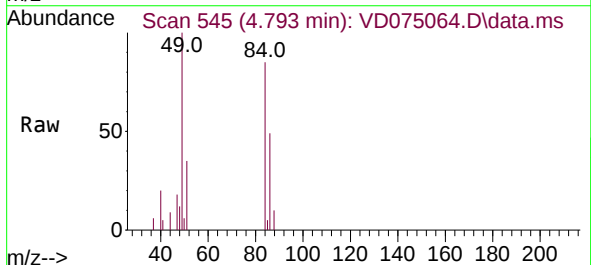
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-CR

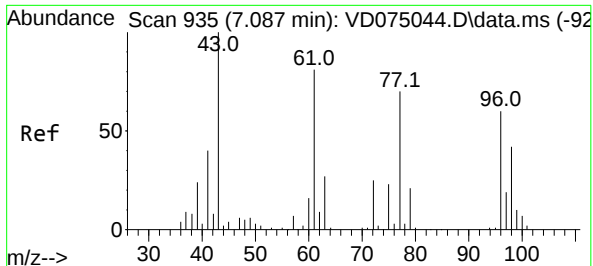
Tgt Ion: 43 Resp: 133  
Ion Ratio Lower Upper  
43 100  
74 0.0 24.5 36.7#



#20  
Methylene Chloride  
Concen: 4.905 ug/l  
RT: 4.793 min Scan# 545  
Delta R.T. -0.000 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

Tgt Ion: 84 Resp: 13489  
Ion Ratio Lower Upper  
84 100  
49 118.3 77.2 115.8#  
51 41.1 24.1 36.1#  
86 58.2 51.7 77.5





#25

2-Butanone

Concen: 13.851 ug/l

RT: 7.093 min Scan# 91

Delta R.T. 0.012 min

Lab File: VD075064.D

Acq: 28 Dec 2022 14:27

Instrument :

MSVOA\_D

ClientSampleId :

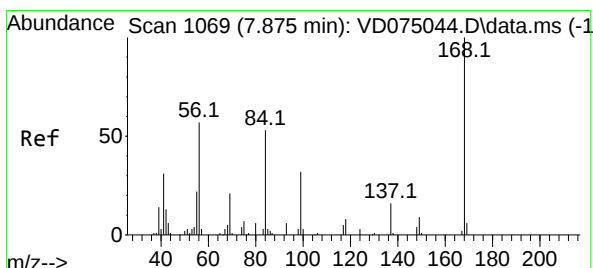
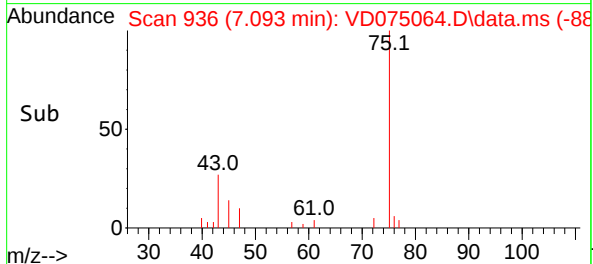
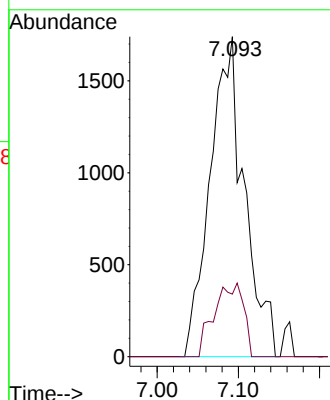
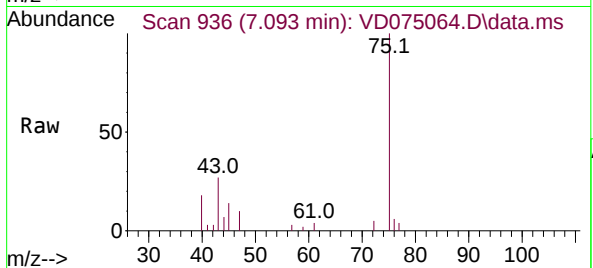
TP-CR

Tgt Ion: 43 Resp: 5100

Ion Ratio Lower Upper

43 100

72 19.5 28.4 42.6#



#31

Cyclohexane

Concen: Below Cal

RT: 7.869 min Scan# 1068

Delta R.T. -0.006 min

Lab File: VD075064.D

Acq: 28 Dec 2022 14:27

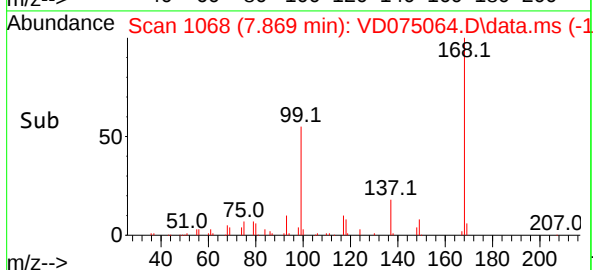
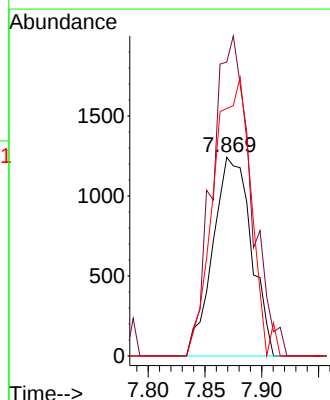
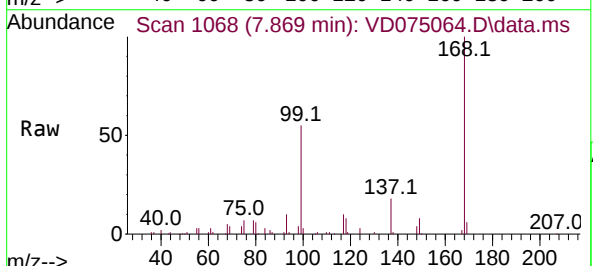
Tgt Ion: 56 Resp: 2912

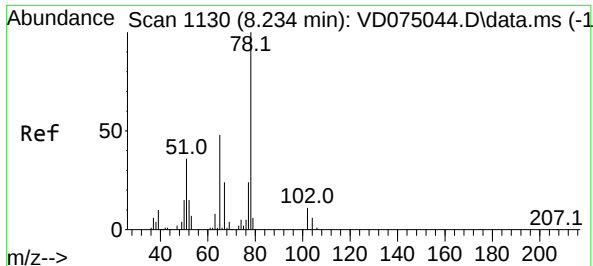
Ion Ratio Lower Upper

56 100

69 147.9 29.4 44.2#

84 124.6 81.8 122.8#





#33

1,2-Dichloroethane-d4

Concen: 66.807 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD075064.D

Acq: 28 Dec 2022 14:27

Instrument :

MSVOA\_D

ClientSampleId :

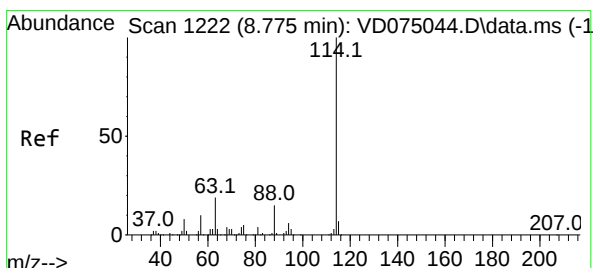
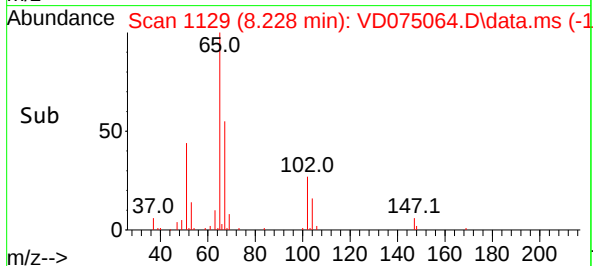
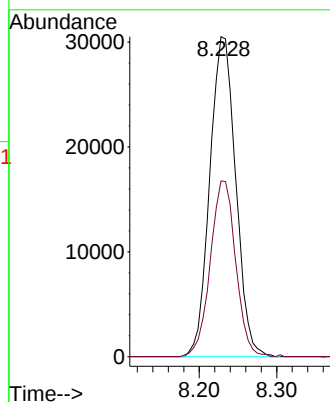
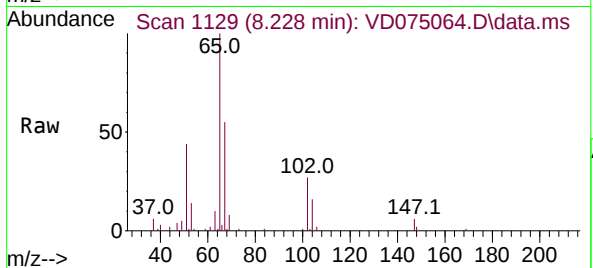
TP-CR

Tgt Ion: 65 Resp: 70971

Ion Ratio Lower Upper

65 100

67 53.8 0.0 111.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VD075064.D

Acq: 28 Dec 2022 14:27

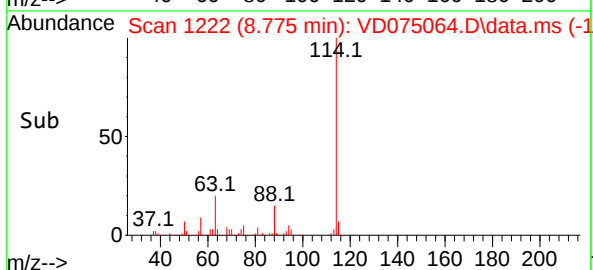
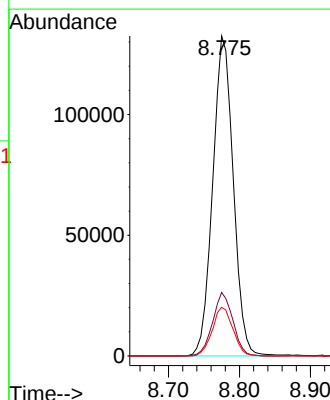
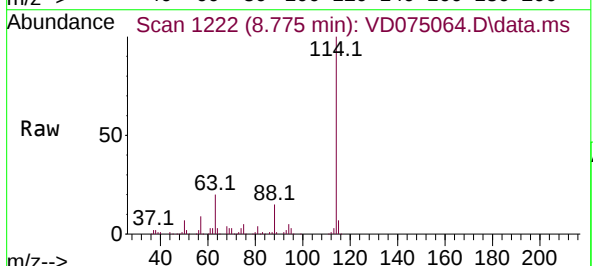
Tgt Ion: 114 Resp: 266221

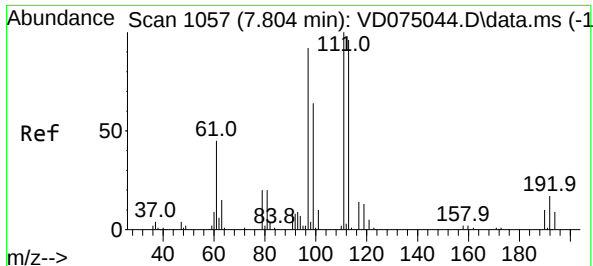
Ion Ratio Lower Upper

114 100

63 19.8 0.0 33.8

88 15.2 0.0 27.8

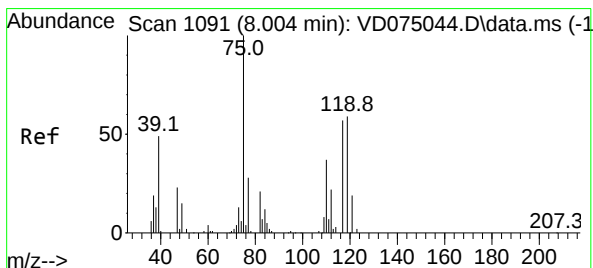
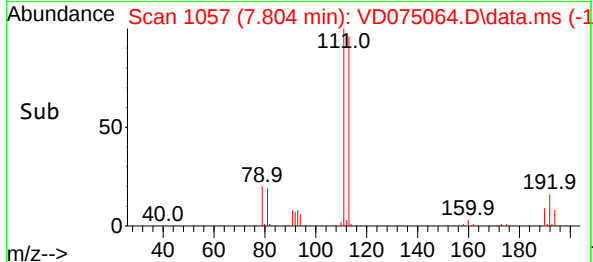
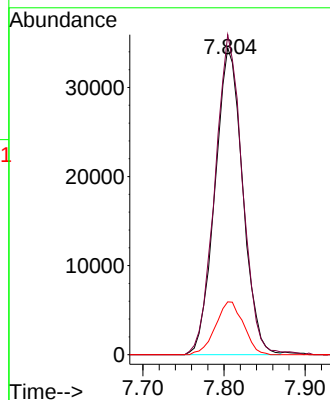
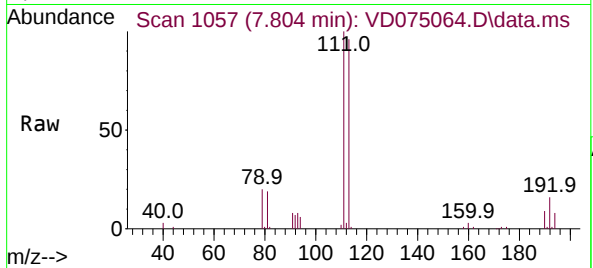




#35  
Dibromofluoromethane  
Concen: 52.207 ug/l  
RT: 7.804 min Scan# 1057  
Delta R.T. -0.001 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

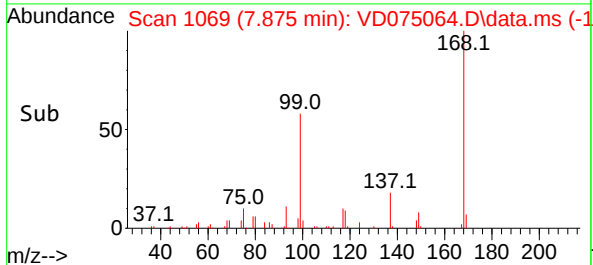
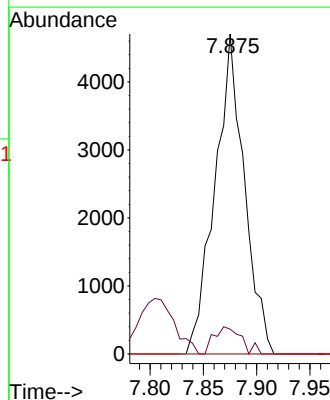
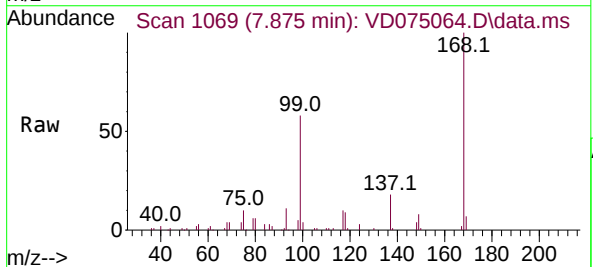
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-CR

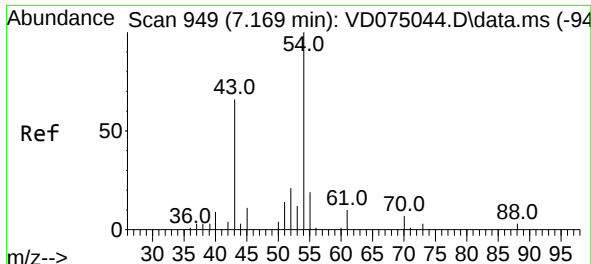
Tgt Ion:113 Resp: 81785  
Ion Ratio Lower Upper  
113 100  
111 103.7 82.1 123.1  
192 17.3 15.1 22.7



#36  
1,1-Dichloropropene  
Concen: 4.454 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.135 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

Tgt Ion: 75 Resp: 9012  
Ion Ratio Lower Upper  
75 100  
110 7.9 19.0 57.0#  
77 0.0 25.2 37.8#





#37

Ethyl Acetate

Concen: 4.989 ug/l

RT: 7.093 min Scan# 91

Delta R.T. -0.076 min

Lab File: VD075064.D

Acq: 28 Dec 2022 14:27

Instrument :

MSVOA\_D

ClientSampleId :

TP-CR

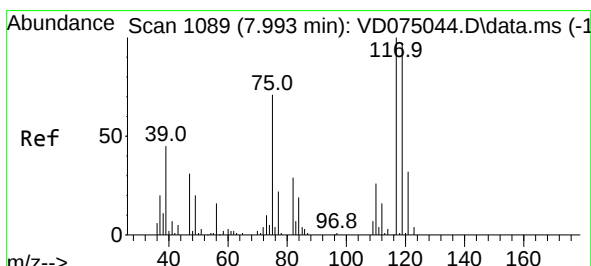
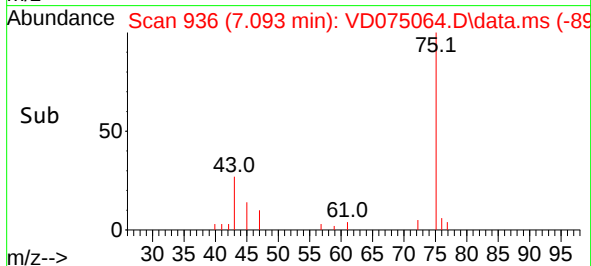
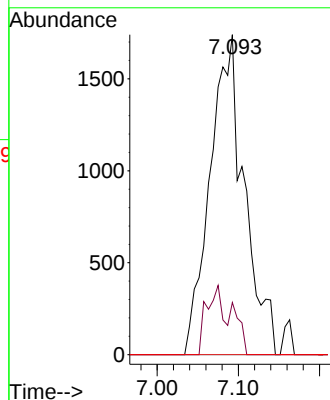
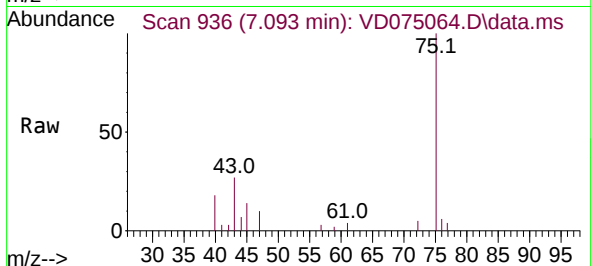
Tgt Ion: 43 Resp: 5100

Ion Ratio Lower Upper

43 100

61 4.5 12.8 19.2#

70 0.0 10.2 15.4#



#38

Carbon Tetrachloride

Concen: 6.439 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.112 min

Lab File: VD075064.D

Acq: 28 Dec 2022 14:27

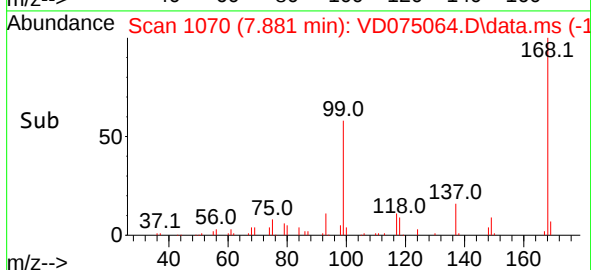
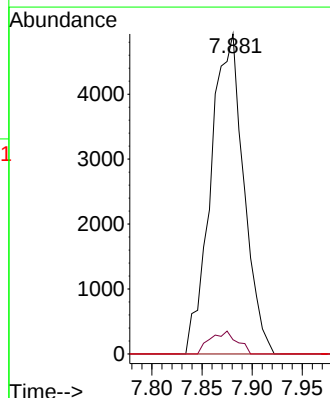
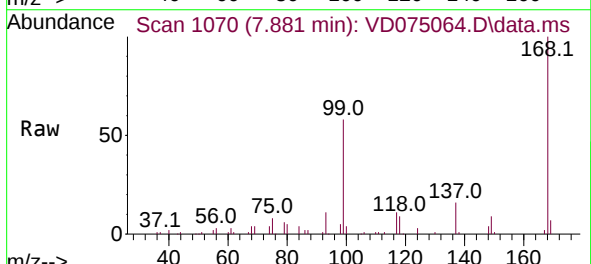
Tgt Ion: 117 Resp: 11266

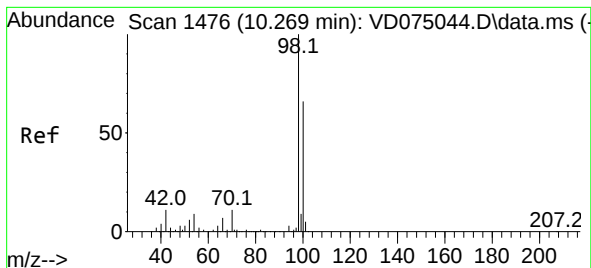
Ion Ratio Lower Upper

117 100

119 4.4 75.8 113.6#

121 0.0 25.4 38.0#

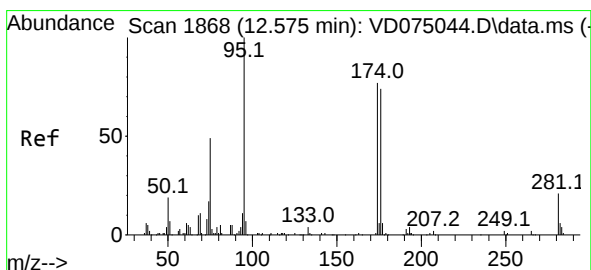
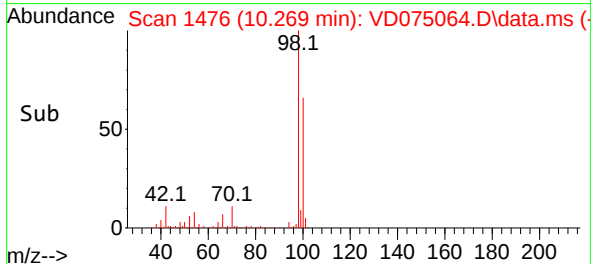
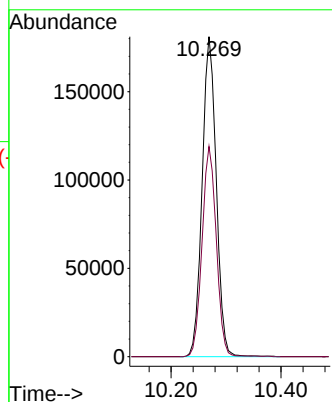
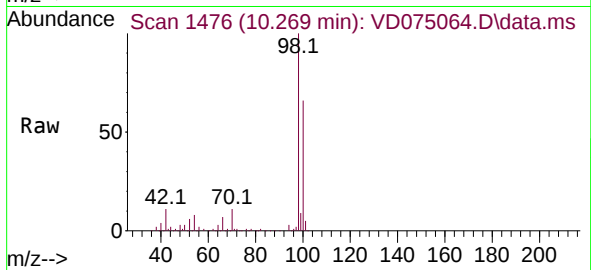




#50  
Toluene-d8  
Concen: 51.010 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

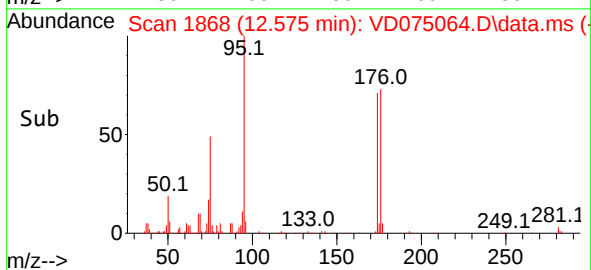
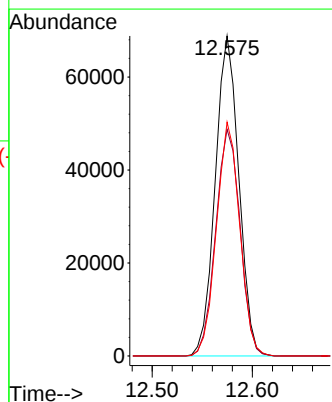
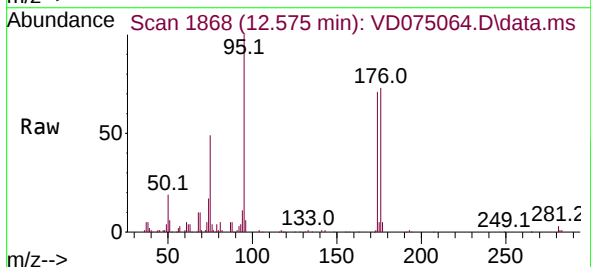
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-CR

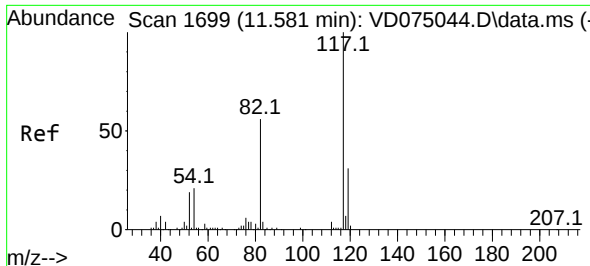
Tgt Ion: 98 Resp: 322879  
Ion Ratio Lower Upper  
98 100  
100 66.3 52.2 78.2



#62  
4-Bromofluorobenzene  
Concen: 54.773 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

Tgt Ion: 95 Resp: 112316  
Ion Ratio Lower Upper  
95 100  
174 73.0 0.0 171.2  
176 72.3 0.0 165.0

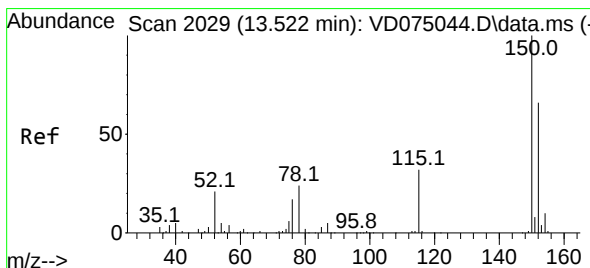
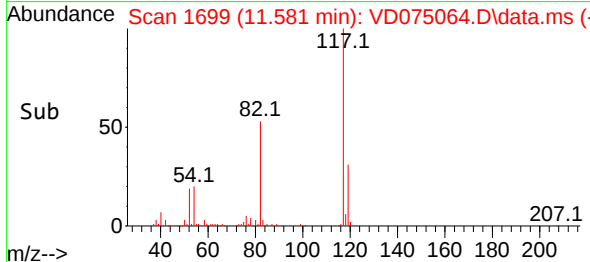
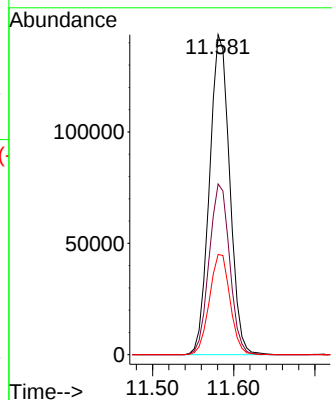
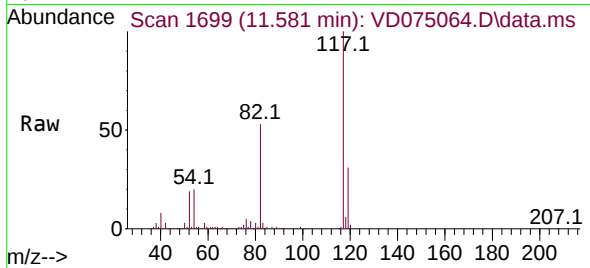




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

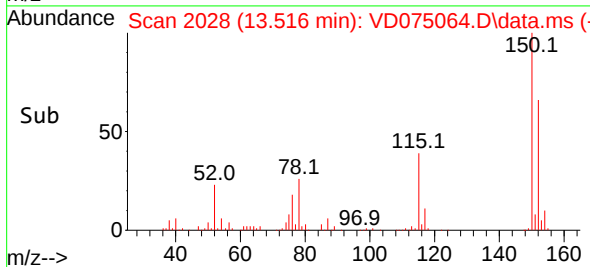
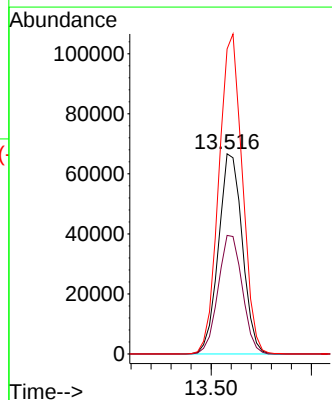
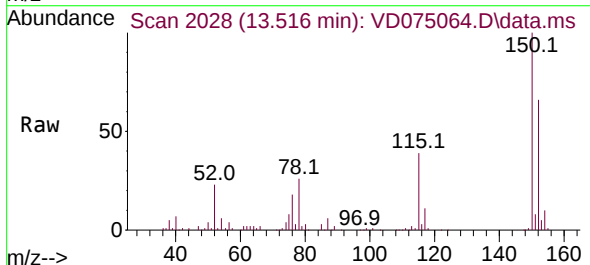
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-CR

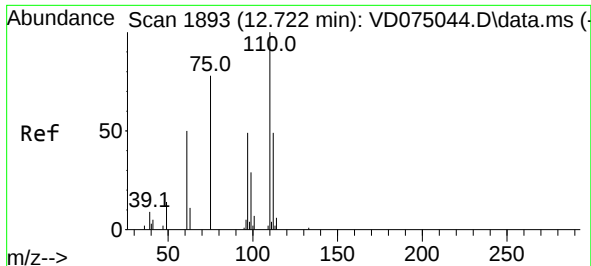
Tgt Ion:117 Resp: 248211  
Ion Ratio Lower Upper  
117 100  
82 53.3 40.9 61.3  
119 31.3 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. -0.000 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

Tgt Ion:152 Resp: 109851  
Ion Ratio Lower Upper  
152 100  
115 60.0 28.8 86.5  
150 157.5 0.0 354.2

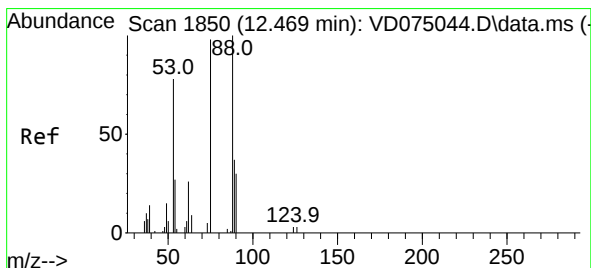
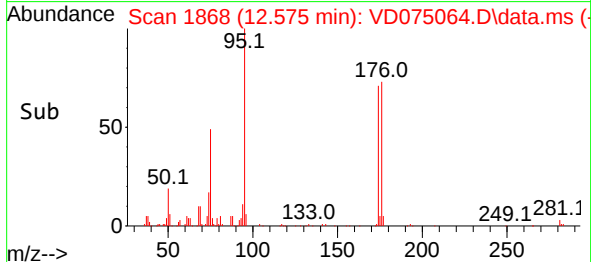
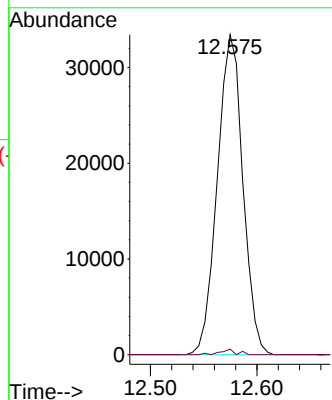
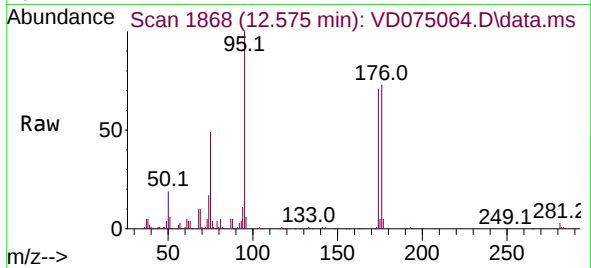




#76  
1,2,3-Trichloropropane  
Concen: 49.365 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.147 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-CR

Tgt Ion: 75 Resp: 55602  
Ion Ratio Lower Upper  
75 100  
77 1.0 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 114.409 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. 0.106 min  
Lab File: VD075064.D  
Acq: 28 Dec 2022 14:27

Tgt Ion: 75 Resp: 55602  
Ion Ratio Lower Upper  
75 100  
53 0.0 60.0 90.0#  
89 0.1 37.4 56.0#

