

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD040121\  
 Data File : VD068759.D  
 Acq On : 01 Apr 2021 15:32  
 Operator : VA/SY  
 Sample : M1888-01  
 Misc : 8.39G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-3S-(0-4)

Quant Time: Apr 02 01:04:36 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031921S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 20 02:00:55 2021  
 Response via : Initial Calibration

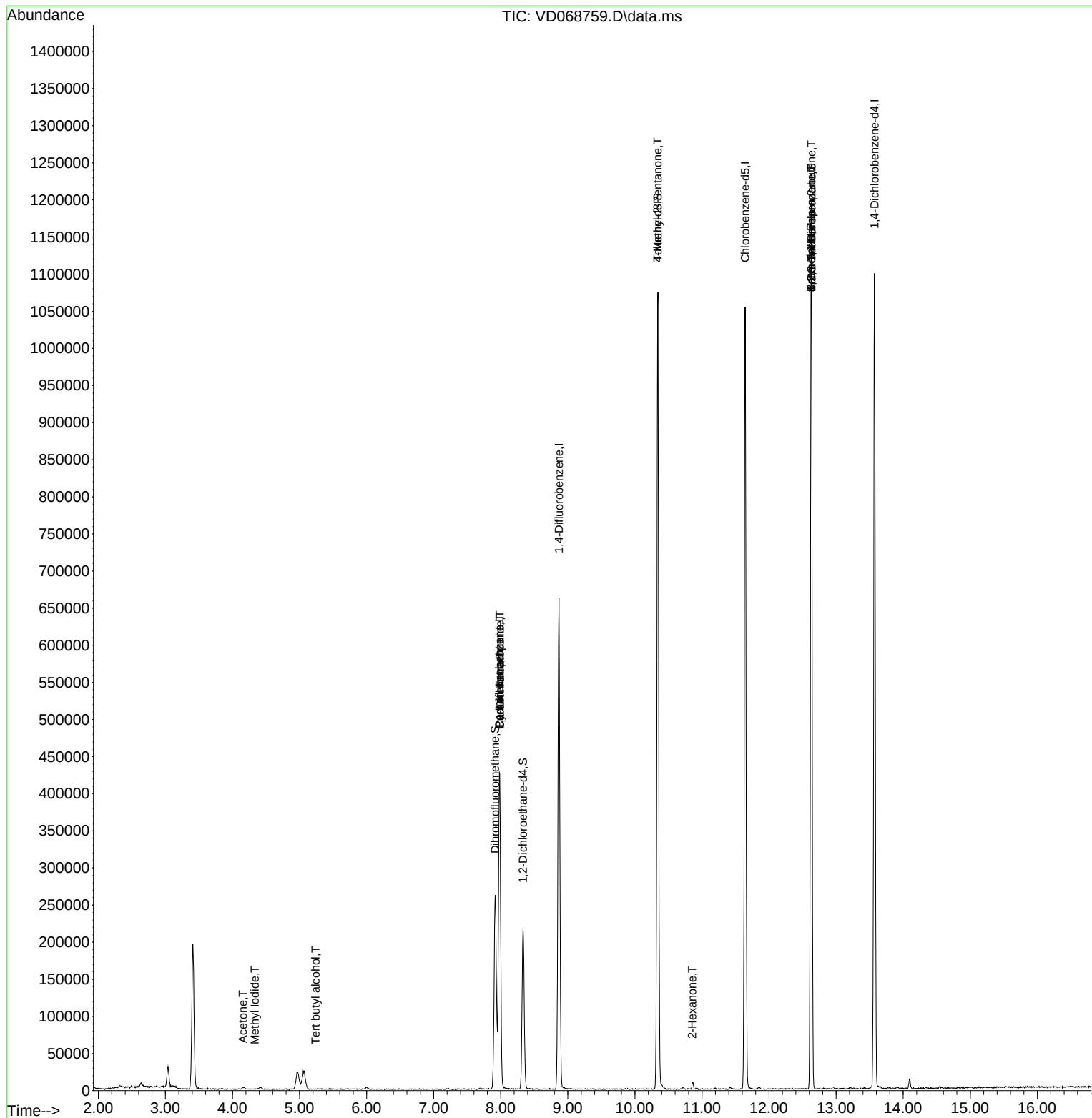
| Compound                      | R.T.           | QIon | Response           | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-----------|--------|----------|
| -----                         |                |      |                    |           |        |          |
| Internal Standards            |                |      |                    |           |        |          |
| 1) Pentafluorobenzene         | 7.979          | 168  | 328815             | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.867          | 114  | 590778             | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.643         | 117  | 630454             | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.573         | 152  | 302360             | 50.00     | ug/l   | 0.00     |
|                               |                |      |                    |           |        |          |
| System Monitoring Compounds   |                |      |                    |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.332          | 65   | 171486             | 51.72     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 103.44% |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 189591             | 51.58     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 103.16% |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 753969             | 53.20     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 106.40% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.632         | 95   | 279484             | 60.83     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 121.66% |           |        |          |
|                               |                |      |                    |           |        |          |
| Target Compounds              |                |      |                    |           |        | Qvalue   |
| 10) Methyl Iodide             | 4.332          | 142  | 53                 | 3.48      | ug/l # | 41       |
| 11) Tert butyl alcohol        | 5.238          | 59   | 265                | 1.73      | ug/l # | 73       |
| 16) Acetone                   | 4.156          | 43   | 2354               | 5.85      | ug/l   | 94       |
| 20) Methylene Chloride        | 4.961          | 84   | 19716              | Below Cal |        | 92       |
| 31) Cyclohexane               | 7.985          | 56   | 7305               | 1.37      | ug/l # | 42       |
| 36) 1,1-Dichloropropene       | 7.985          | 75   | 26817              | 5.08      | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 7.985          | 117  | 31851              | 6.05      | ug/l # | 15       |
| 51) 4-Methyl-2-Pentanone      | 10.338         | 43   | 2871               | 1.73      | ug/l # | 1        |
| 59) 2-Hexanone                | 10.855         | 43   | 2721               | 2.44      | ug/l # | 19       |
| 71) Bromoform                 | 12.626         | 173  | 2506               | 1.06      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.632         | 75   | 144697             | 57.50     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.632         | 75   | 144697             | 130.81    | ug/l # | 16       |
| -----                         |                |      |                    |           |        |          |

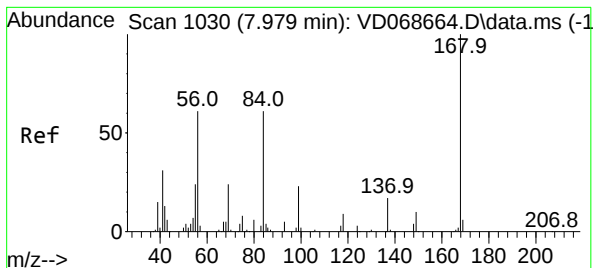
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD040121\  
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Sample : M1888-01  
Misc : 8.39G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3S-(0-4)

Quant Time: Apr 02 01:04:36 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031921S.M  
Quant Title : SW846 8260  
QLast Update : Sat Mar 20 02:00:55 2021  
Response via : Initial Calibration

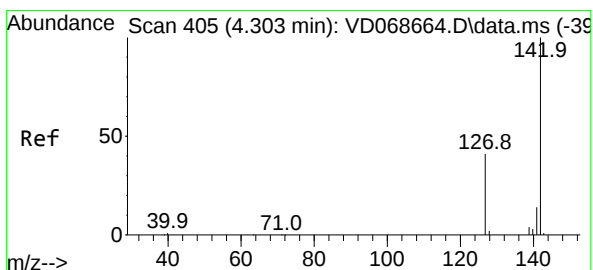
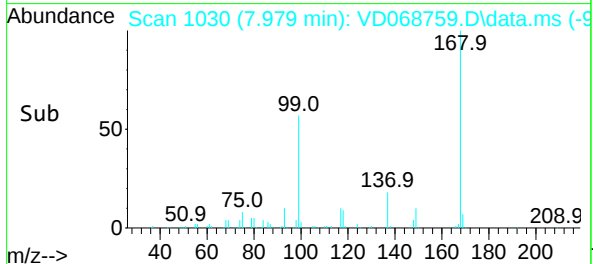
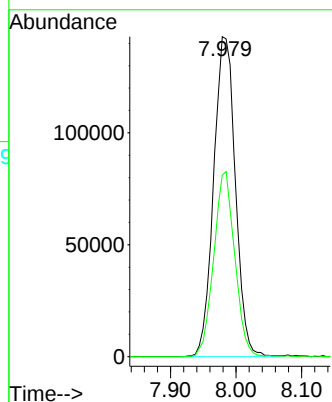
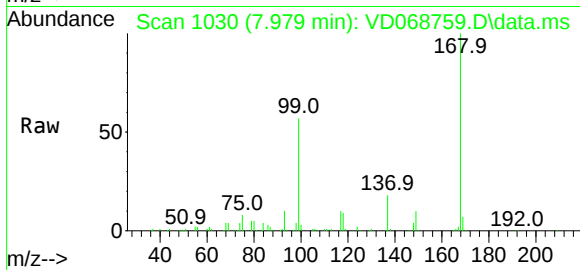




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.000 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

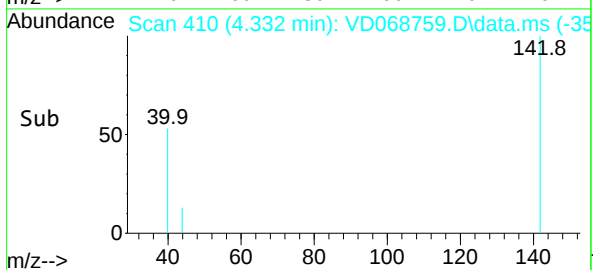
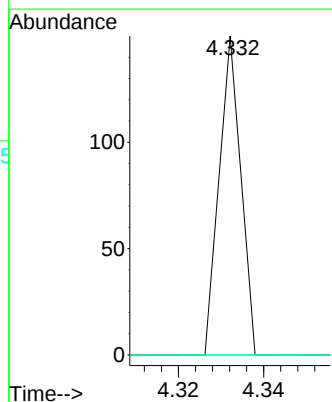
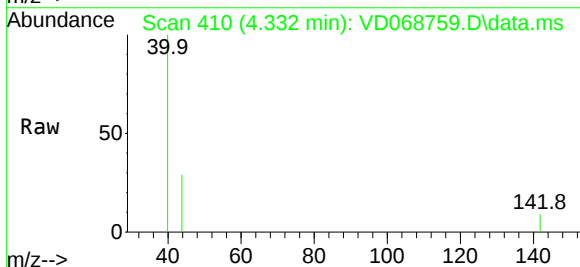
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3S-(0-4)

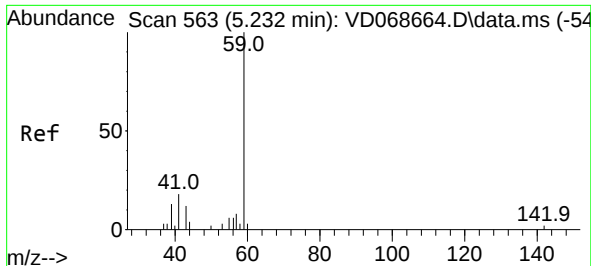
Tgt Ion:168 Resp: 328815  
Ion Ratio Lower Upper  
168 100  
99 56.8 46.2 69.2



#10  
Methyl Iodide  
Concen: 3.48 ug/l  
RT: 4.332 min Scan# 410  
Delta R.T. 0.029 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

Tgt Ion:142 Resp: 53  
Ion Ratio Lower Upper  
142 100  
127 0.0 34.7 52.1#  
141 0.0 11.0 16.4#

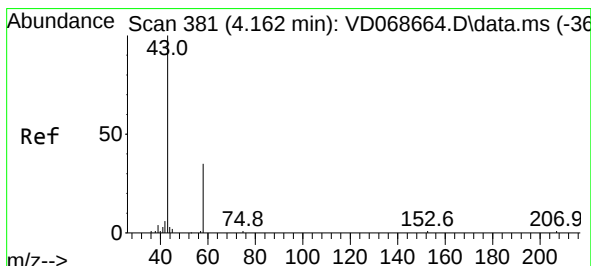
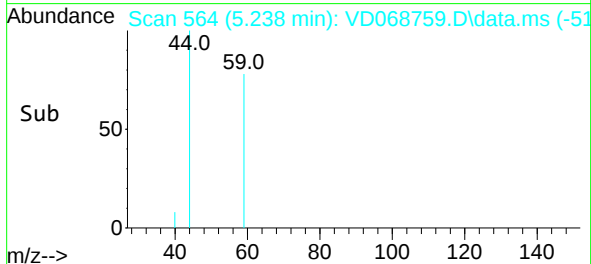
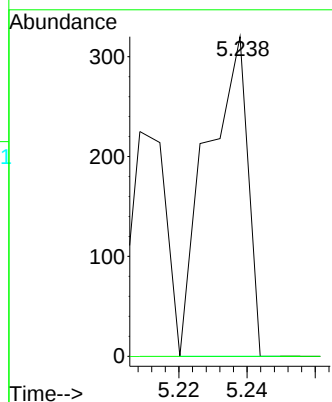
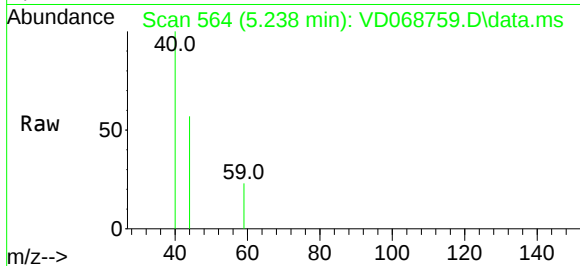




#11  
Tert butyl alcohol  
Concen: 1.73 ug/l  
RT: 5.238 min Scan# 564  
Delta R.T. 0.006 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

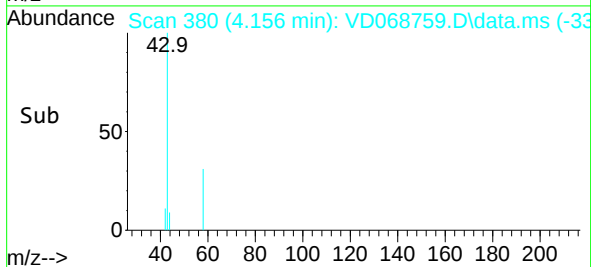
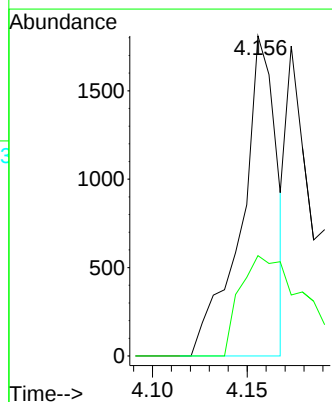
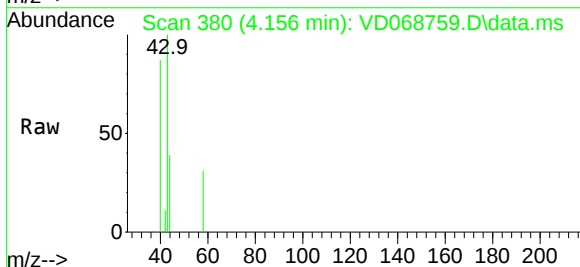
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3S-(0-4)

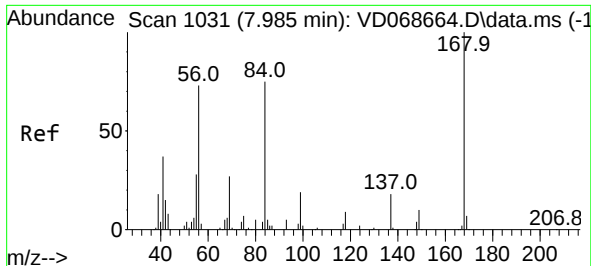
Tgt Ion: 59 Resp: 265  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#



#16  
Acetone  
Concen: 5.85 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. -0.006 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

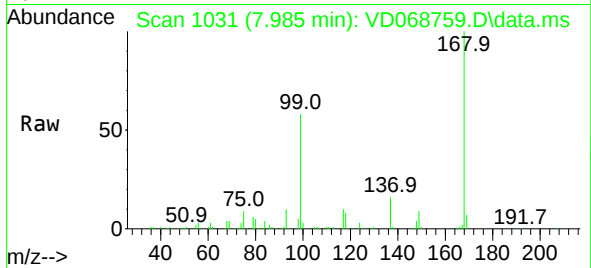
Tgt Ion: 43 Resp: 2354  
Ion Ratio Lower Upper  
43 100  
58 31.4 28.0 42.0



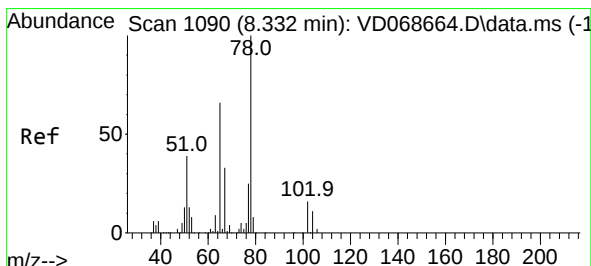
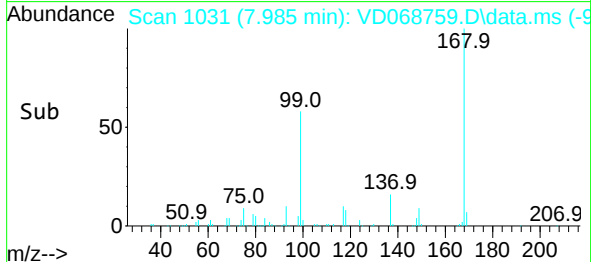
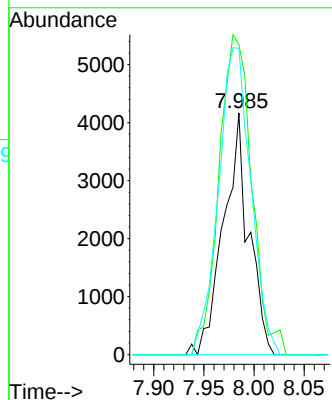


#31  
Cyclohexane  
Concen: 1.37 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3S-(0-4)

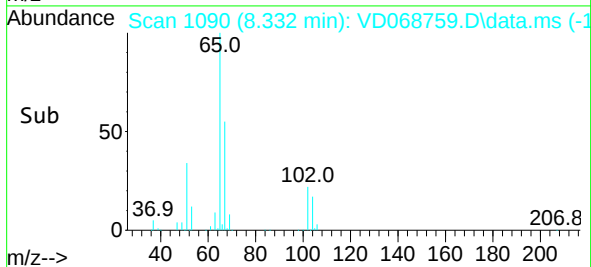
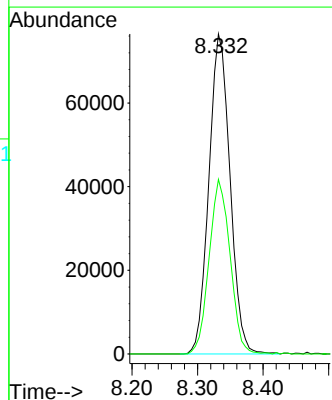
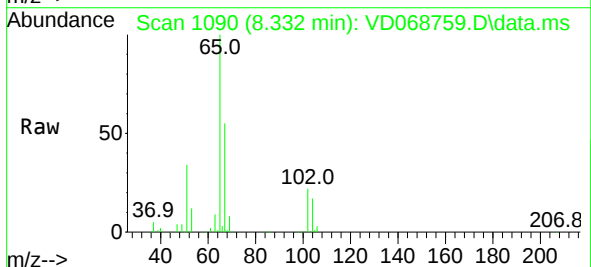


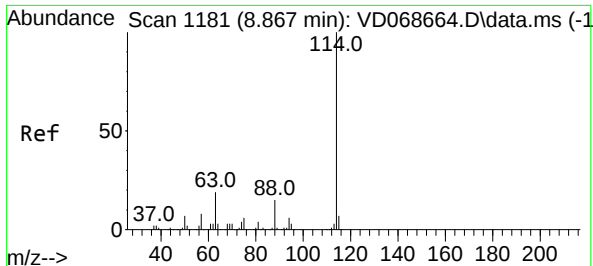
Tgt Ion: 56 Resp: 7305  
Ion Ratio Lower Upper  
56 100  
69 128.3 30.0 45.0#  
84 126.7 82.0 123.0#



#33  
1,2-Dichloroethane-d4  
Concen: 51.72 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. -0.000 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

Tgt Ion: 65 Resp: 171486  
Ion Ratio Lower Upper  
65 100  
67 54.0 0.0 106.0



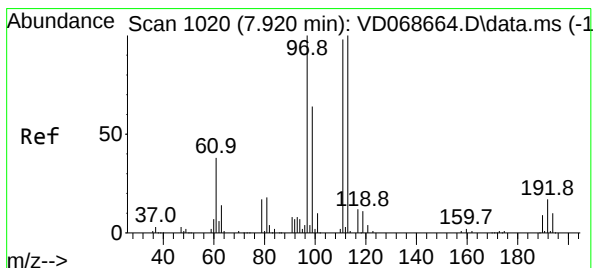
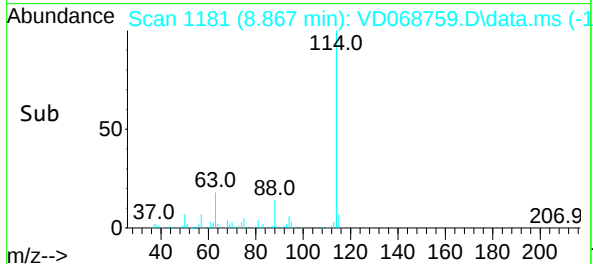
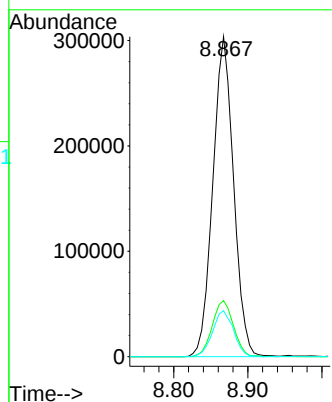
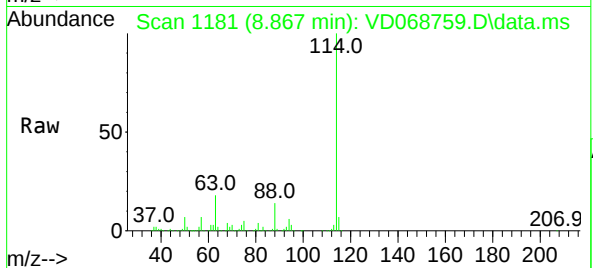


#34

1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. -0.000 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3S-(0-4)

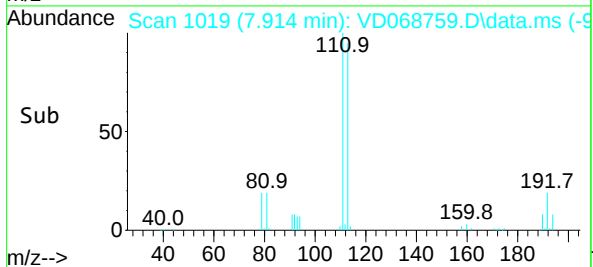
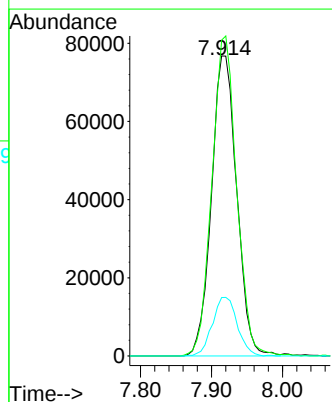
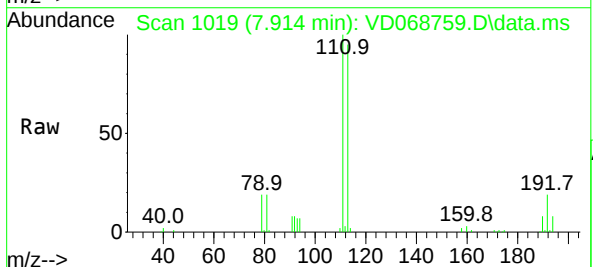
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 114   | Resp: | 590778 |
| Ion      | Ratio | Lower | Upper  |
| 114      | 100   |       |        |
| 63       | 17.5  | 0.0   | 38.2   |
| 88       | 14.4  | 0.0   | 29.4   |

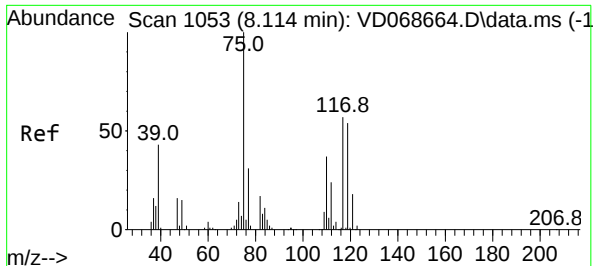


#35

Dibromofluoromethane  
Concen: 51.58 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

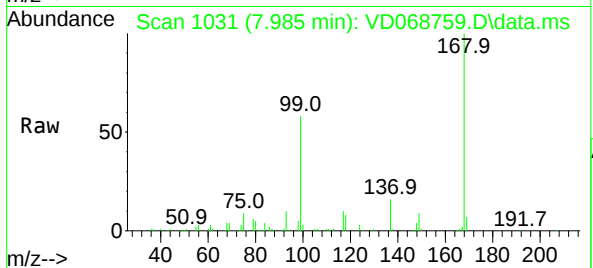
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 113   | Resp: | 189591 |
| Ion      | Ratio | Lower | Upper  |
| 113      | 100   |       |        |
| 111      | 104.3 | 82.5  | 123.7  |
| 192      | 19.2  | 15.1  | 22.7   |



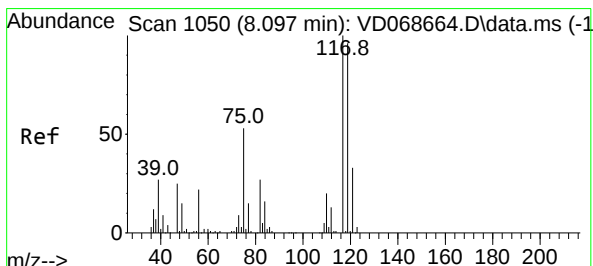
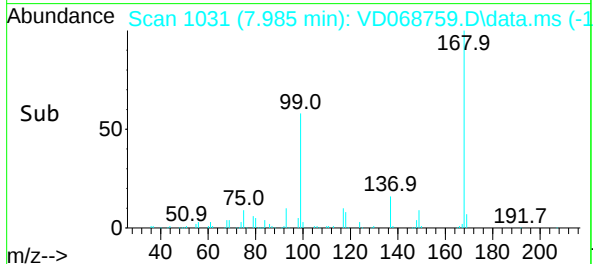
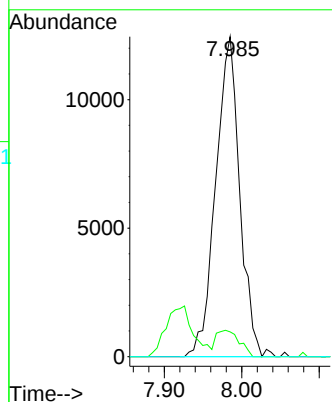


#36  
1,1-Dichloropropene  
Concen: 5.08 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.130 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3S-(0-4)

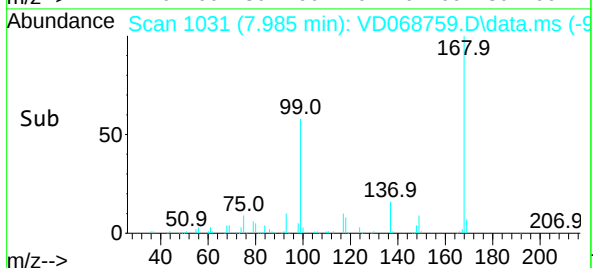
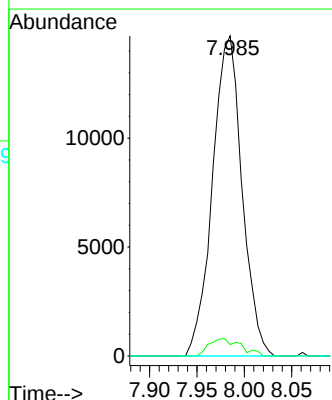
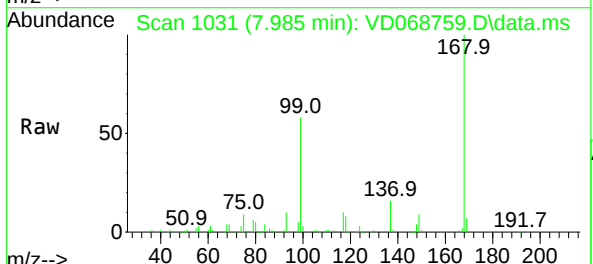


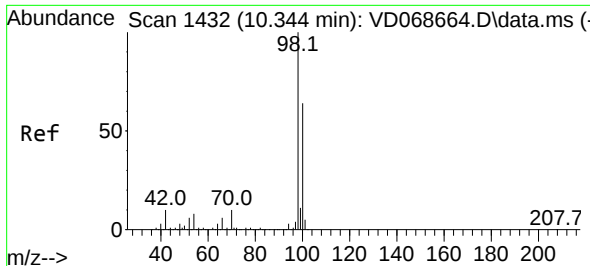
Tgt Ion: 75 Resp: 26817  
Ion Ratio Lower Upper  
75 100  
110 7.9 18.1 54.4#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 6.05 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.112 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

Tgt Ion: 117 Resp: 31851  
Ion Ratio Lower Upper  
117 100  
119 3.6 76.6 115.0#  
121 0.0 26.1 39.1#

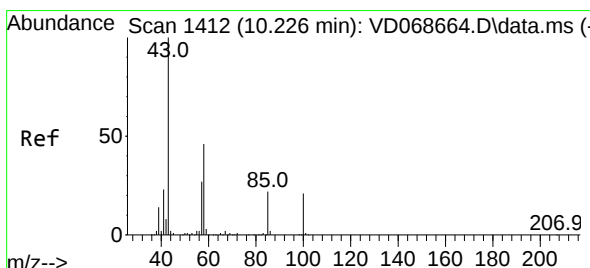
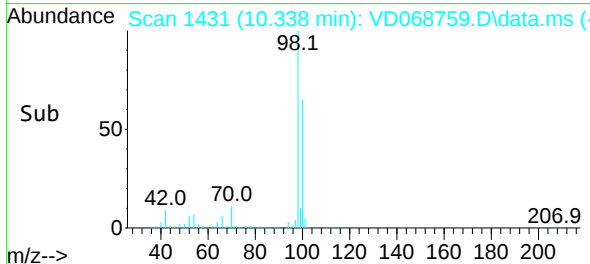
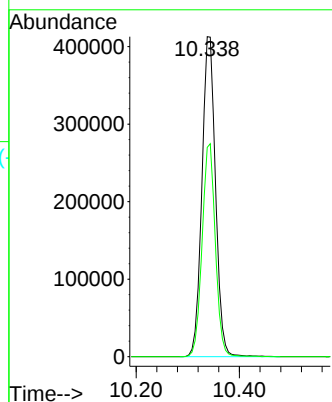
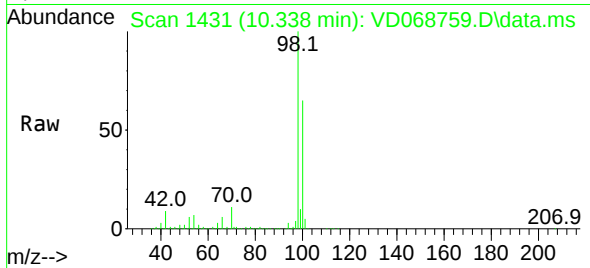




#50  
Toluene-d8  
Concen: 53.20 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.006 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

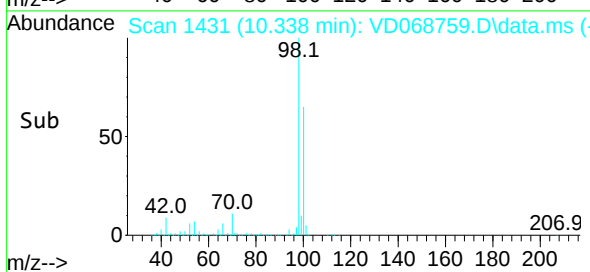
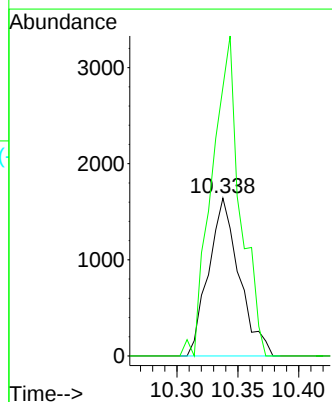
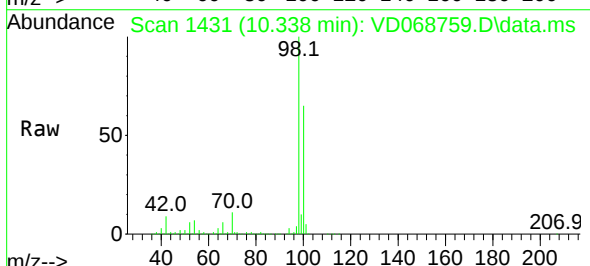
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3S-(0-4)

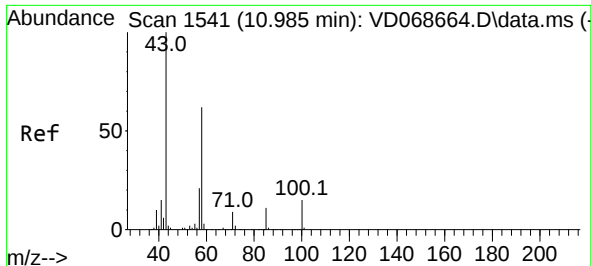
Tgt Ion: 98 Resp: 753969  
Ion Ratio Lower Upper  
98 100  
100 64.9 51.8 77.6



#51  
4-Methyl-2-Pentanone  
Concen: 1.73 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.112 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

Tgt Ion: 43 Resp: 2871  
Ion Ratio Lower Upper  
43 100  
58 188.7 37.3 55.9#

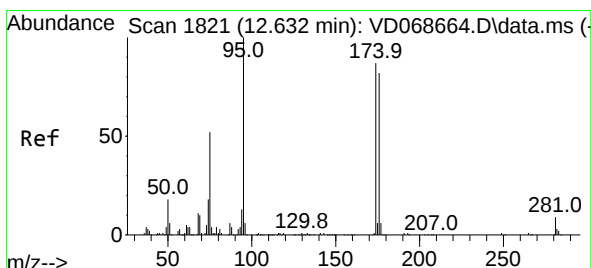
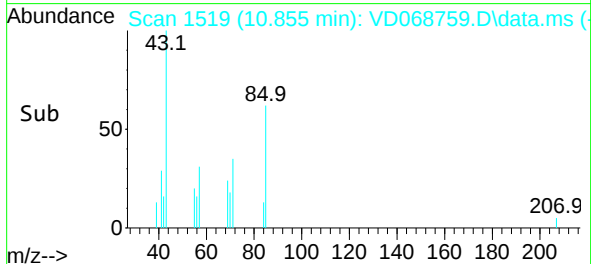
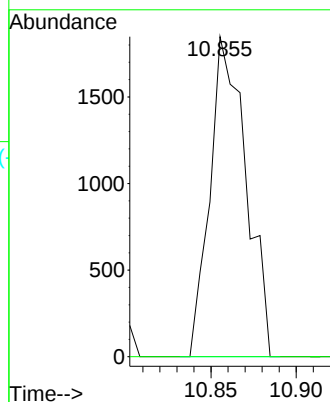
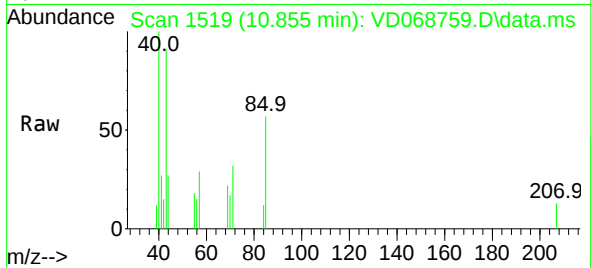




#59  
2-Hexanone  
Concen: 2.44 ug/l  
RT: 10.855 min Scan# 1519  
Delta R.T. -0.130 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

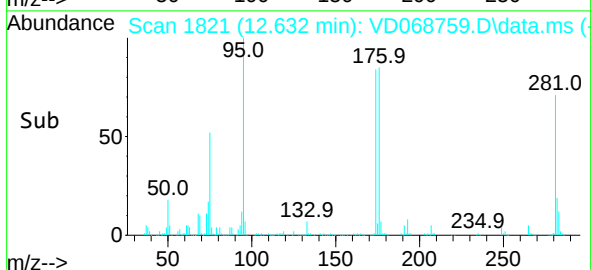
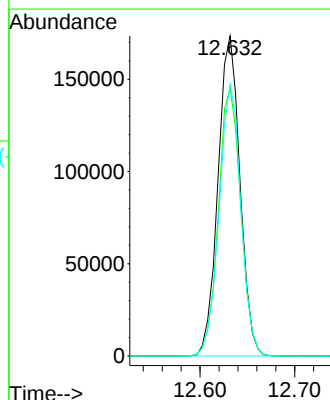
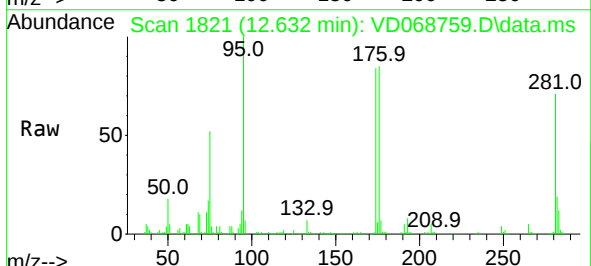
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3S-(0-4)

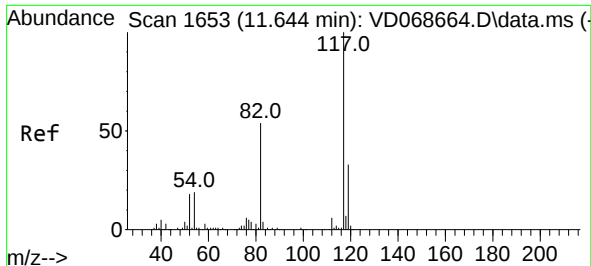
Tgt Ion: 43 Resp: 2721  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.3 93.8#



#62  
4-Bromofluorobenzene  
Concen: 60.83 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. -0.000 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

Tgt Ion: 95 Resp: 279484  
Ion Ratio Lower Upper  
95 100  
174 85.3 0.0 168.0  
176 84.0 0.0 160.2

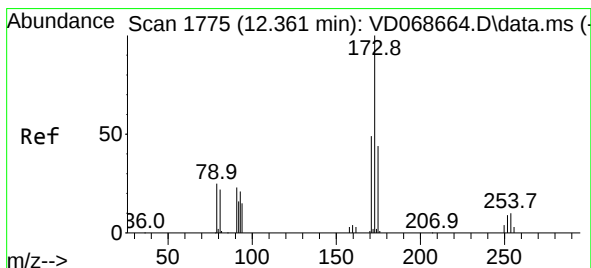
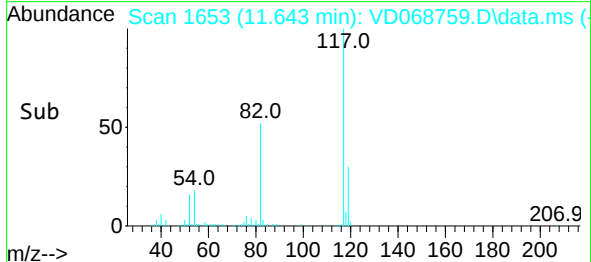
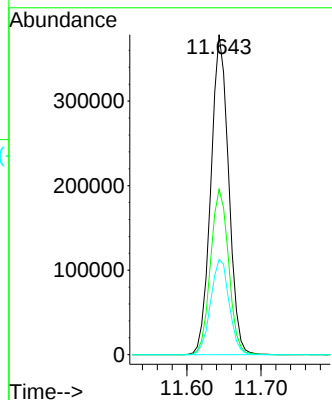
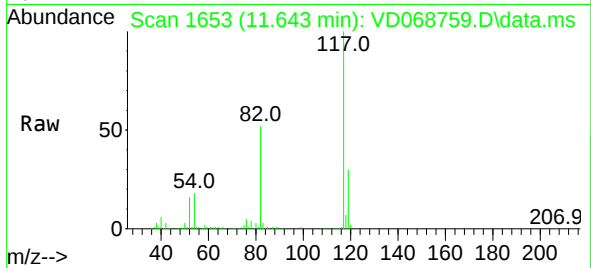




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.643 min Scan# 1653  
Delta R.T. -0.000 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

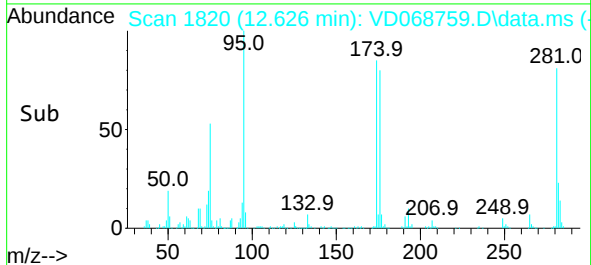
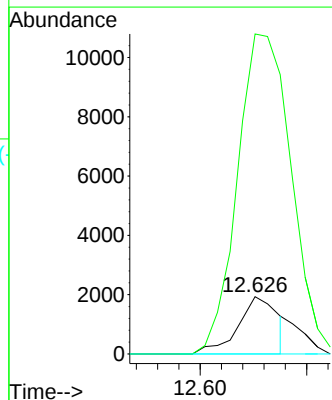
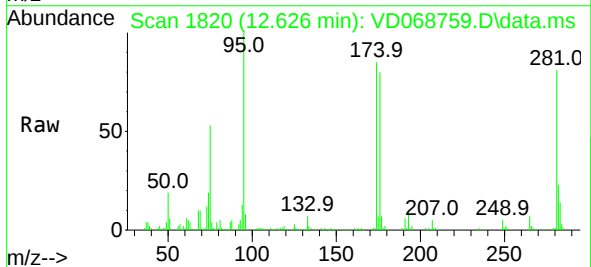
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3S-(0-4)

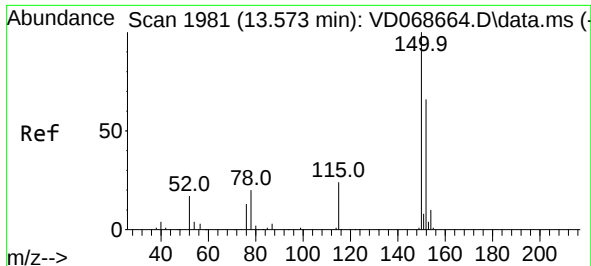
Tgt Ion:117 Resp: 630454  
Ion Ratio Lower Upper  
117 100  
82 51.7 43.5 65.3  
119 29.8 26.7 40.1



#71  
Bromoform  
Concen: 1.06 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. 0.265 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

Tgt Ion:173 Resp: 2506  
Ion Ratio Lower Upper  
173 100  
175 619.0 23.6 71.0#  
254 0.0 0.0 0.0

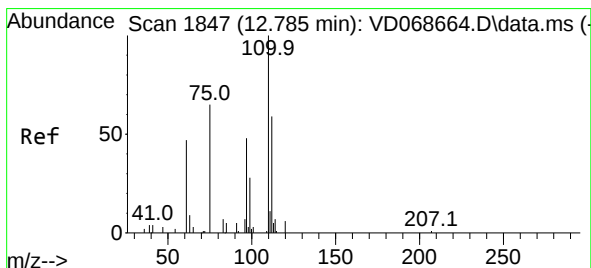
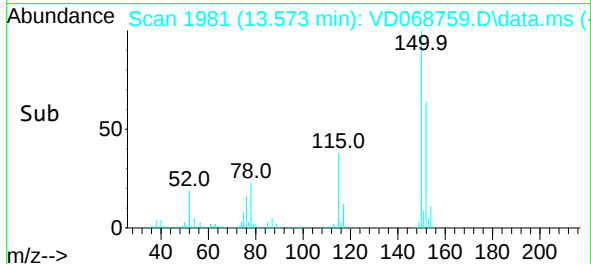
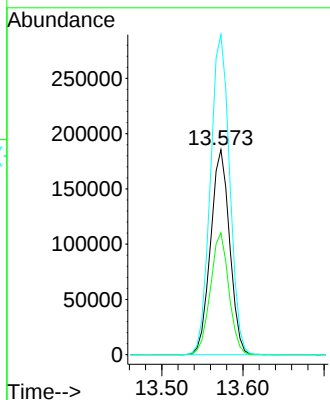
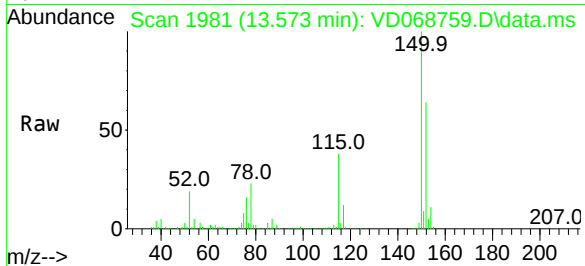




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.573 min Scan# 1981  
Delta R.T. -0.000 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

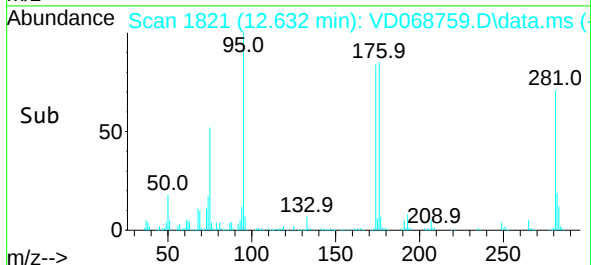
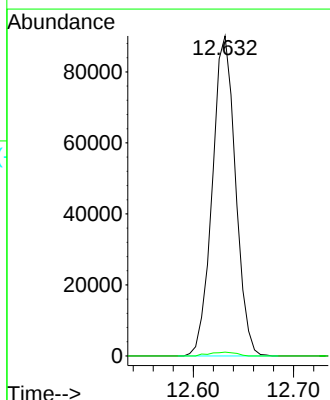
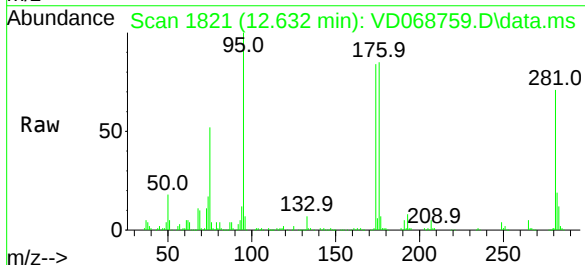
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3S-(0-4)

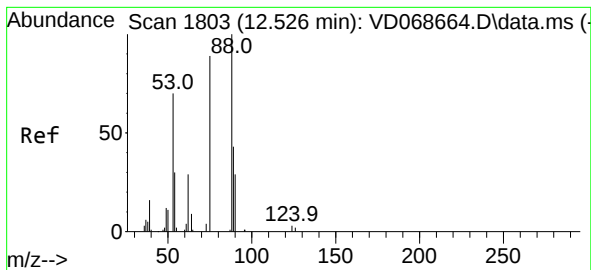
Tgt Ion:152 Resp: 302360  
Ion Ratio Lower Upper  
152 100  
115 57.4 29.3 87.8  
150 157.8 0.0 347.6



#76  
1,2,3-Trichloropropane  
Concen: 57.50 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. -0.153 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

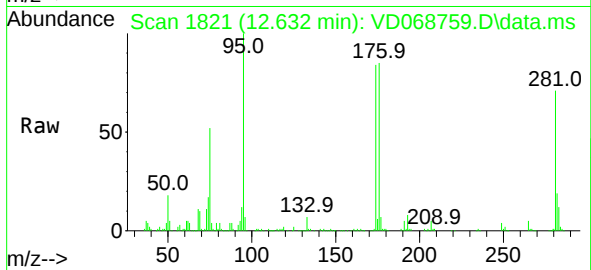
Tgt Ion: 75 Resp: 144697  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 130.81 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.106 min  
Lab File: VD068759.D  
Acq: 01 Apr 2021 15:32

Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-3S-(0-4)



Tgt Ion: 75 Resp: 144697  
Ion Ratio Lower Upper  
75 100  
53 0.0 66.8 100.2#  
89 0.3 36.6 54.8#

