

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032422\  
 Data File : VD072413.D  
 Acq On : 24 Mar 2022 17:47  
 Operator : VA/SY  
 Sample : N2070-04  
 Misc : 5.93G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VNJ-212

Quant Time: Mar 25 02:57:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 14 05:18:06 2022  
 Response via : Initial Calibration

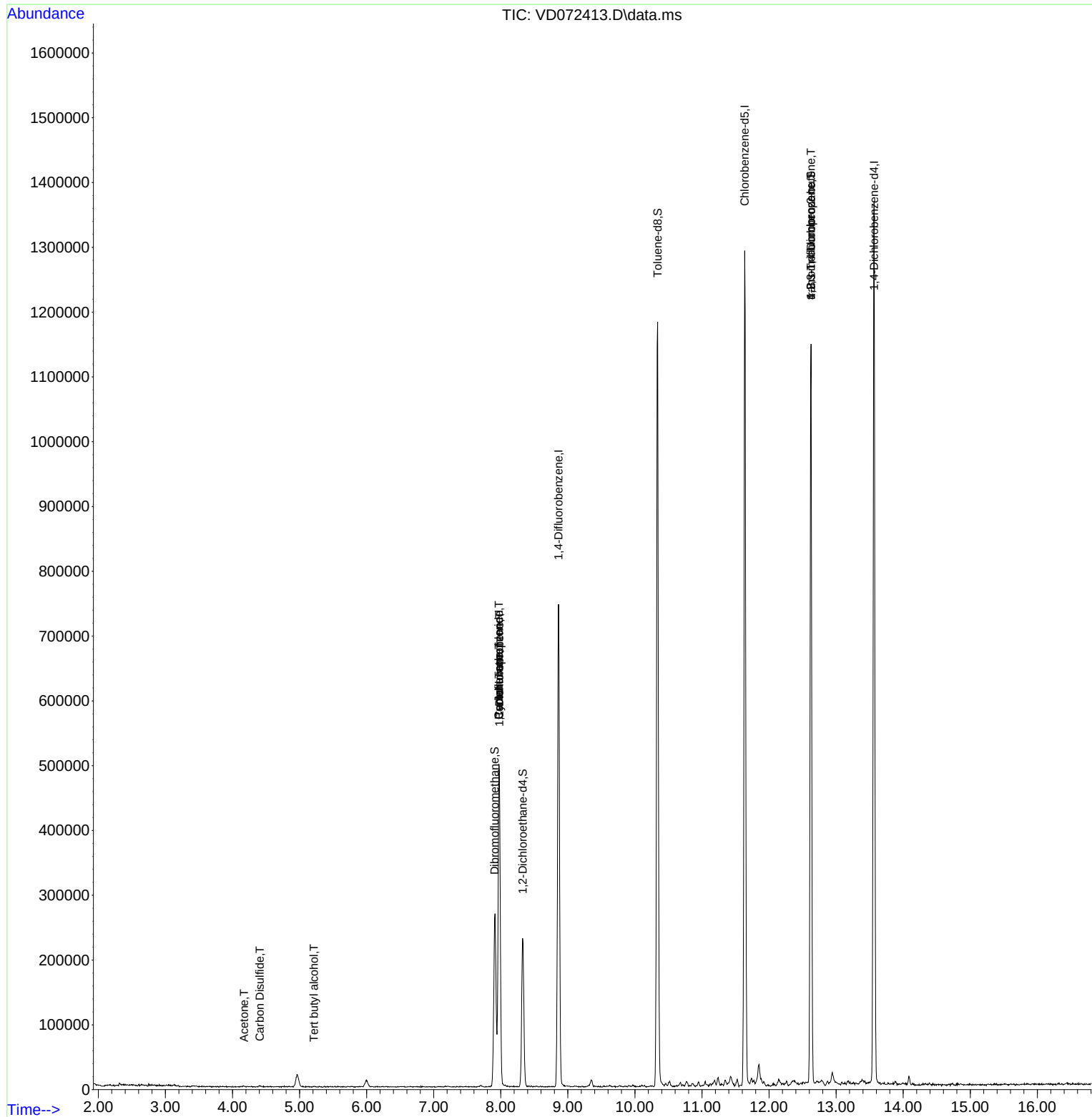
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.973  | 168   | 361942   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 618688   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.637 | 117   | 720247   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.567 | 152   | 362919   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326  | 65    | 188109   | 46.635    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 93.280%  |
| 35) Dibromofluoromethane      | 7.908  | 113   | 191605   | 44.009    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 88.020%  |
| 50) Toluene-d8                | 10.337 | 98    | 785077   | 49.315    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 98.640%  |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 364552   | 58.935    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 117.880% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 5.214  | 59    | 761      | 3.254     | ug/l # | 74       |
| 16) Acetone                   | 4.173  | 43    | 1731     | 1.977     | ug/l   | 96       |
| 17) Carbon Disulfide          | 4.408  | 76    | 1112     | 1.640     | ug/l # | 74       |
| 20) Methylene Chloride        | 4.967  | 84    | 13534    | Below Cal |        | 94       |
| 31) Cyclohexane               | 7.973  | 56    | 8502     | 1.349     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.979  | 75    | 30804    | 5.043     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.973  | 117   | 39238    | 5.652     | ug/l # | 16       |
| 76) 1,2,3-Trichloropropane    | 12.626 | 75    | 186029   | 46.469    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75    | 186029   | 115.294   | ug/l # | 7        |
| -----                         |        |       |          |           |        |          |

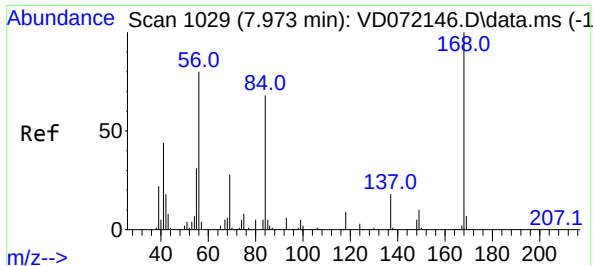
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_D  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 14 05:18:06 2022  
Response via : Initial Calibration

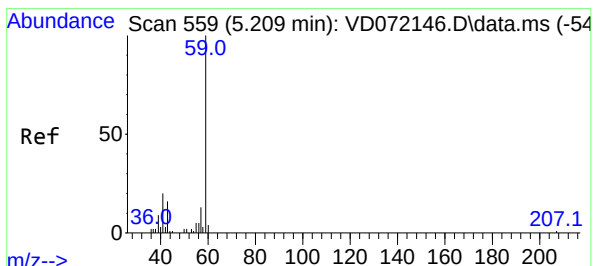
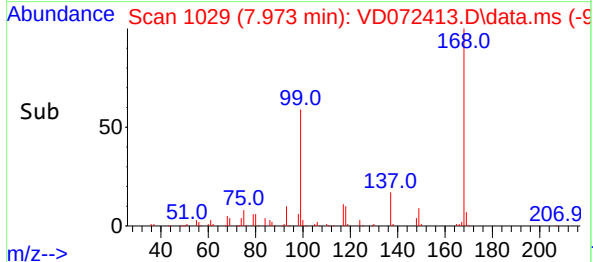
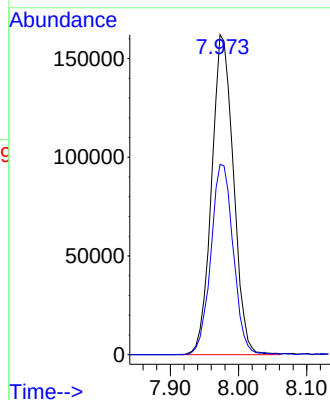
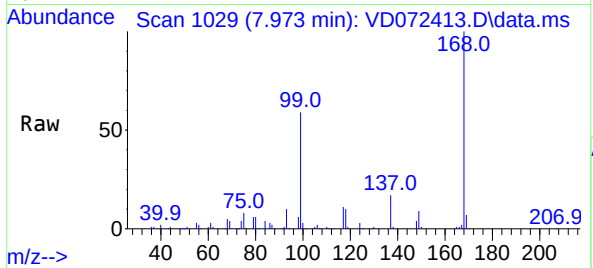




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.000 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

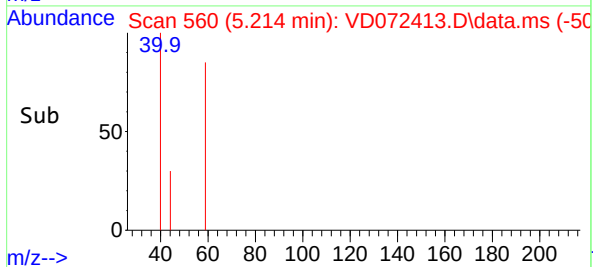
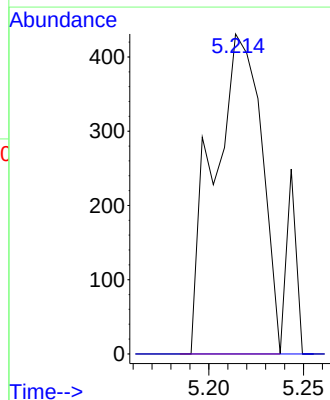
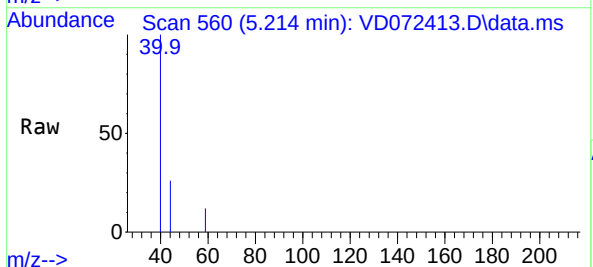
Instrument :  
MSVOA\_D  
ClientSampleId :  
VNJ-212

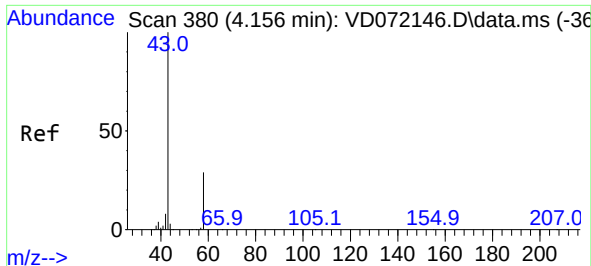
Tgt Ion:168 Resp: 361942  
Ion Ratio Lower Upper  
168 100  
99 59.4 49.8 74.6



#11  
Tert butyl alcohol  
Concen: 3.254 ug/l  
RT: 5.214 min Scan# 560  
Delta R.T. 0.006 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

Tgt Ion: 59 Resp: 761  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#

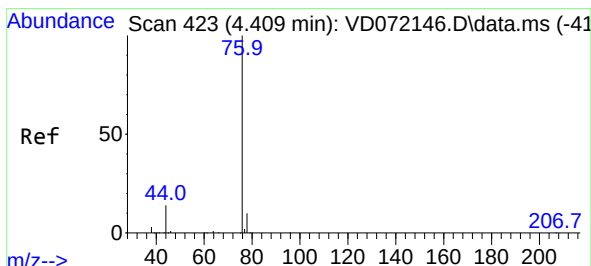
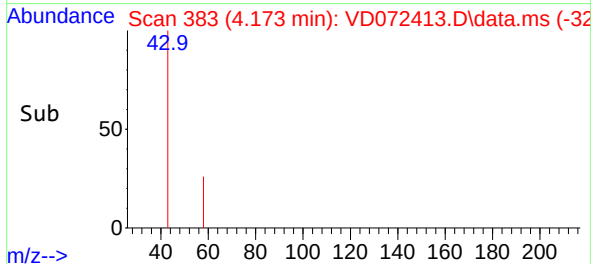
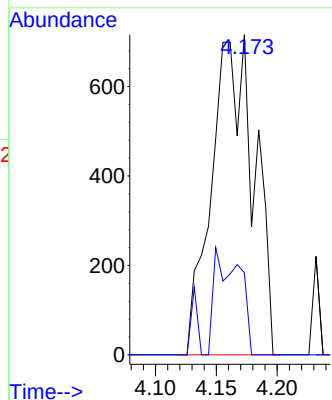
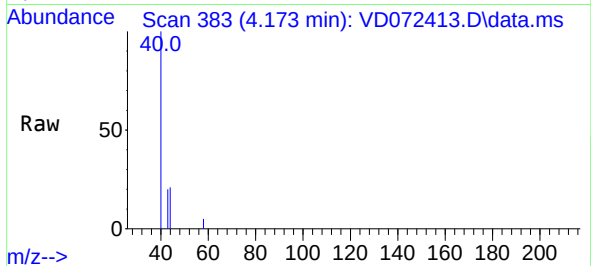




#16  
Acetone  
Concen: 1.977 ug/l  
RT: 4.173 min Scan# 383  
Delta R.T. 0.017 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

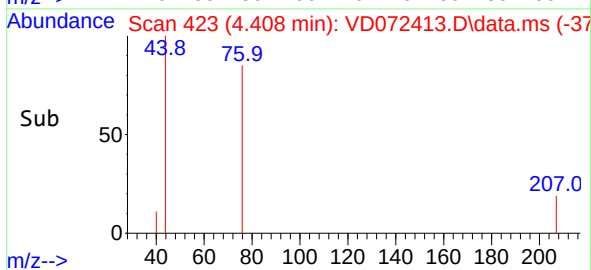
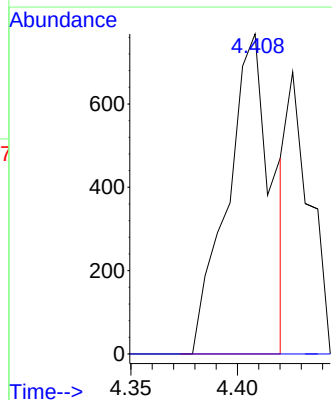
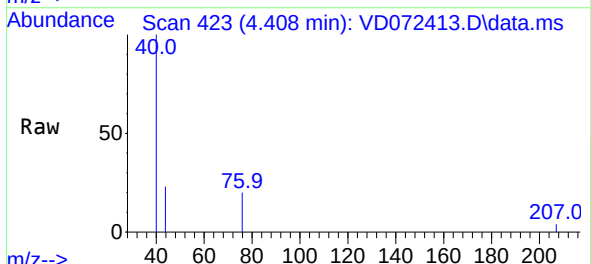
Instrument :  
MSVOA\_D  
ClientSampleId :  
VNJ-212

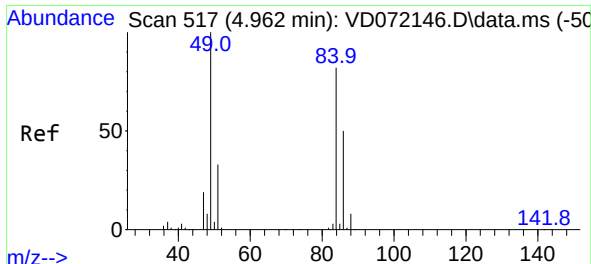
Tgt Ion: 43 Resp: 1731  
Ion Ratio Lower Upper  
43 100  
58 25.7 22.1 33.1



#17  
Carbon Disulfide  
Concen: 1.640 ug/l  
RT: 4.408 min Scan# 423  
Delta R.T. -0.001 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

Tgt Ion: 76 Resp: 1112  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.5 11.3#



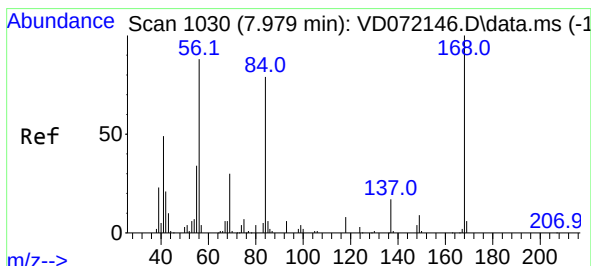
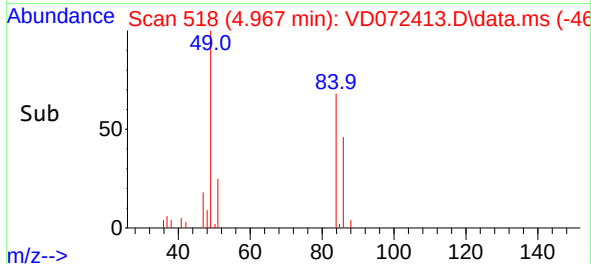
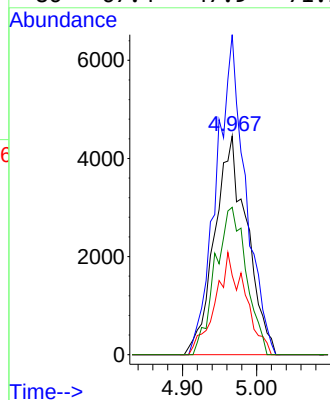
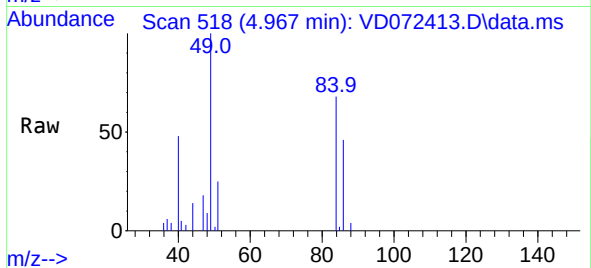


#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.967 min Scan# 51  
Delta R.T. 0.005 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

Instrument :  
MSVOA\_D  
ClientSampleId :  
VNJ-212

Tgt Ion: 84 Resp: 13534

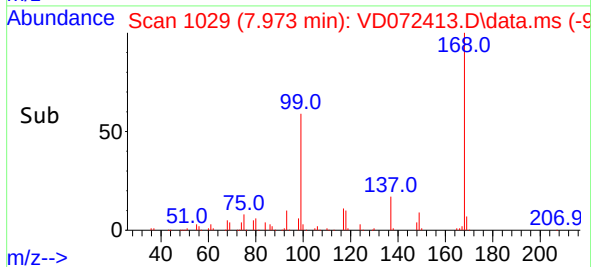
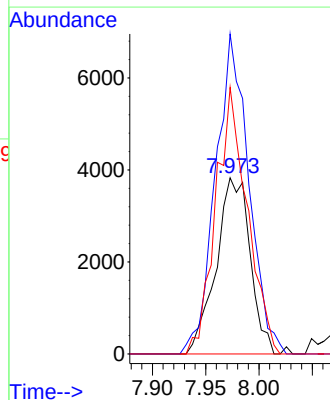
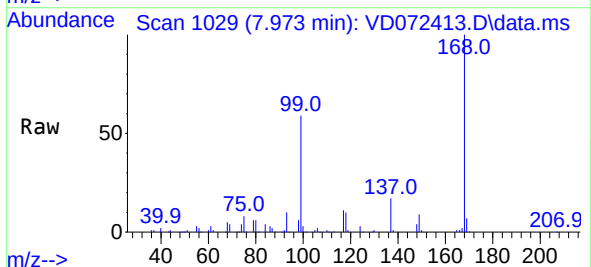
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 146.3 | 112.8 | 169.2 |
| 51  | 36.2  | 32.6  | 48.8  |
| 86  | 67.4  | 47.9  | 71.9  |

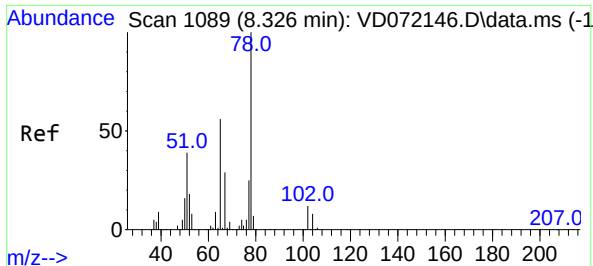


#31  
Cyclohexane  
Concen: 1.349 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

Tgt Ion: 56 Resp: 8502

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 181.6 | 25.4  | 38.2# |
| 84  | 151.3 | 63.0  | 94.4# |

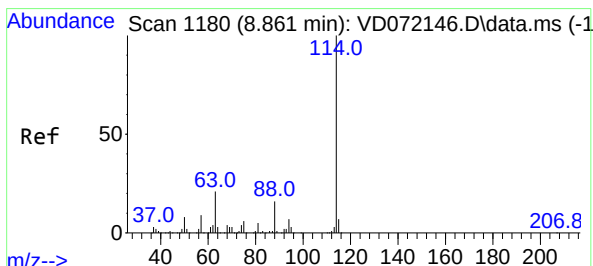
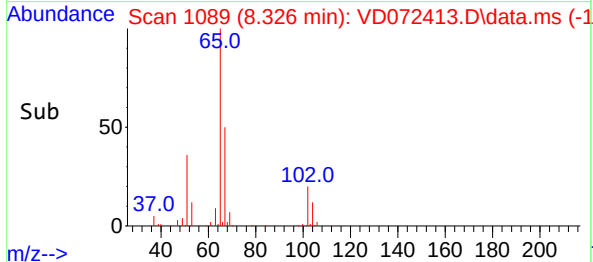
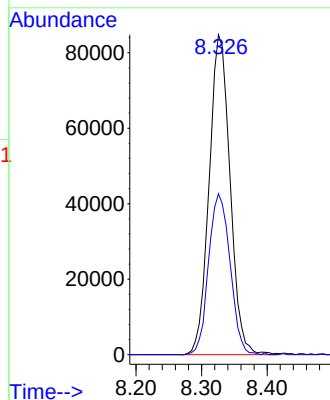
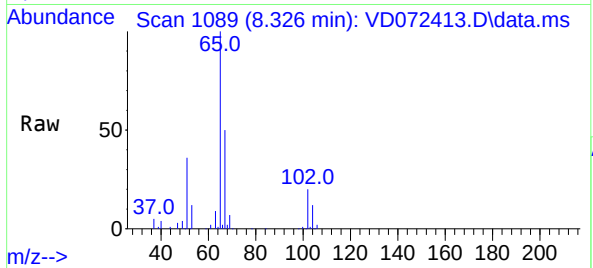




#33  
1,2-Dichloroethane-d4  
Concen: 46.635 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.000 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

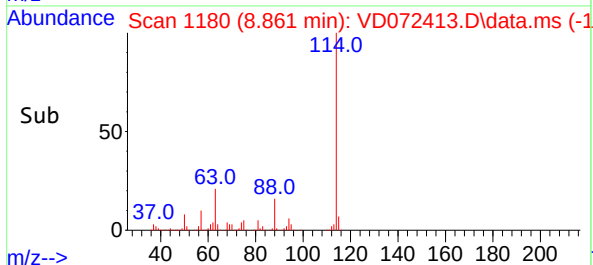
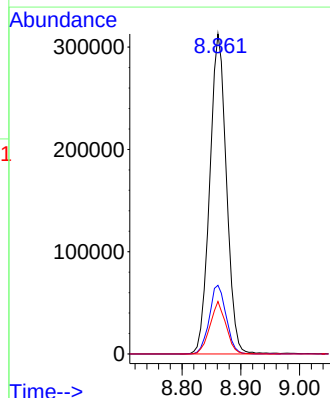
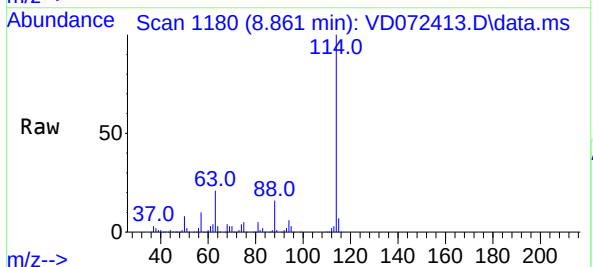
Instrument :  
MSVOA\_D  
ClientSampleId :  
VNJ-212

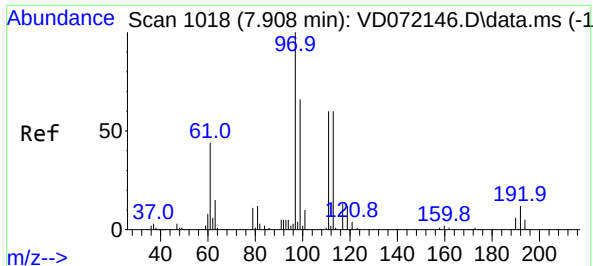
Tgt Ion: 65 Resp: 188109  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 101.4



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. -0.000 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

Tgt Ion: 114 Resp: 618688  
Ion Ratio Lower Upper  
114 100  
63 21.5 0.0 46.6  
88 16.4 0.0 33.2

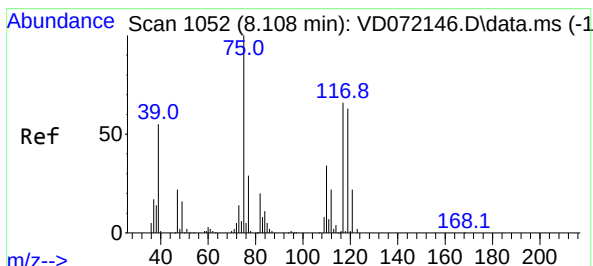
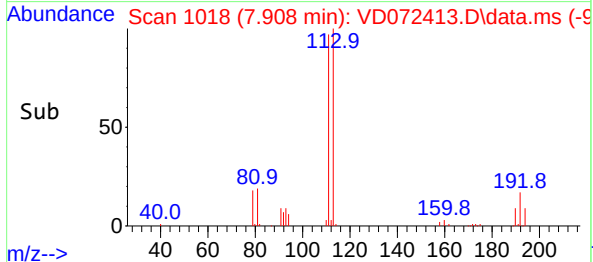
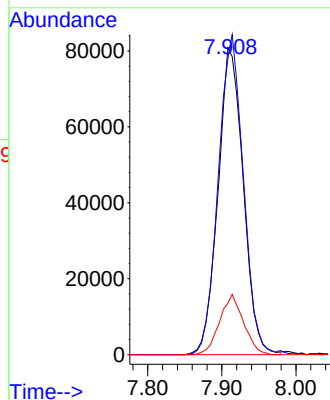
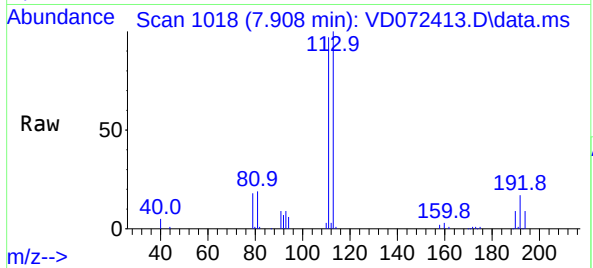




#35  
Dibromofluoromethane  
Concen: 44.009 ug/l  
RT: 7.908 min Scan# 1018  
Delta R.T. -0.000 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

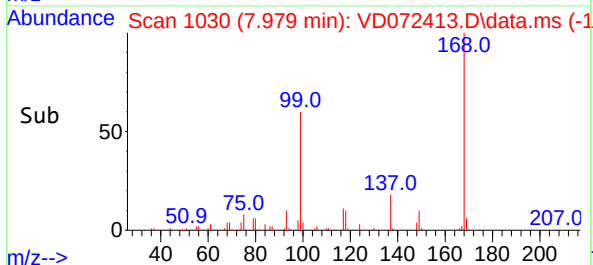
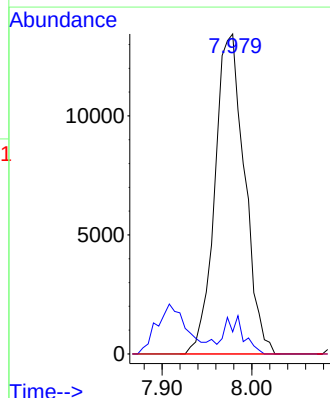
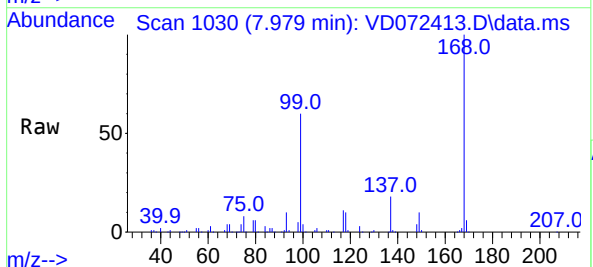
Instrument :  
MSVOA\_D  
ClientSampleId :  
VNJ-212

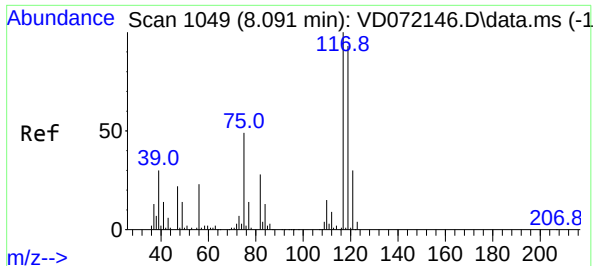
Tgt Ion:113 Resp: 191605  
Ion Ratio Lower Upper  
113 100  
111 103.6 83.8 125.6  
192 18.6 14.6 21.8



#36  
1,1-Dichloropropene  
Concen: 5.043 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.130 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

Tgt Ion: 75 Resp: 30804  
Ion Ratio Lower Upper  
75 100  
110 7.4 16.4 49.1#  
77 0.0 24.2 36.2#

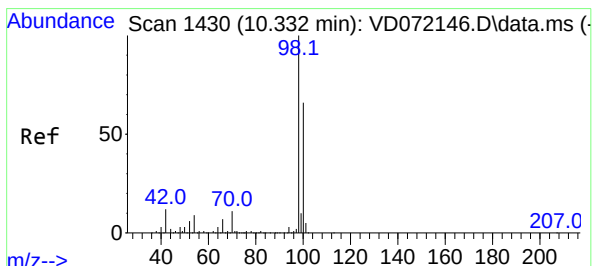
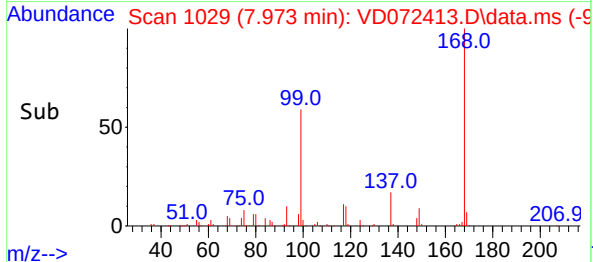
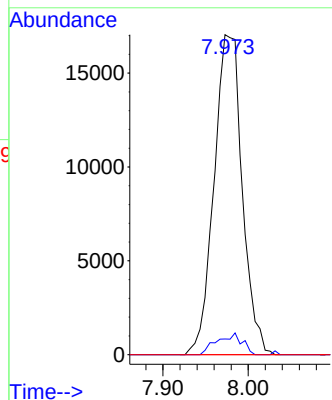
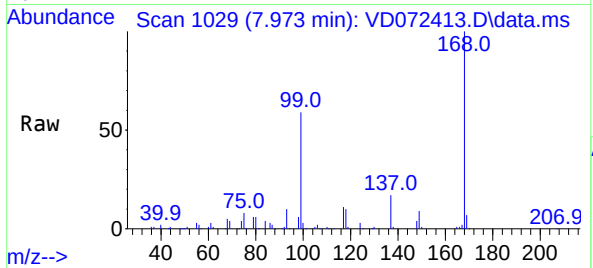




#38  
Carbon Tetrachloride  
Concen: 5.652 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.118 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

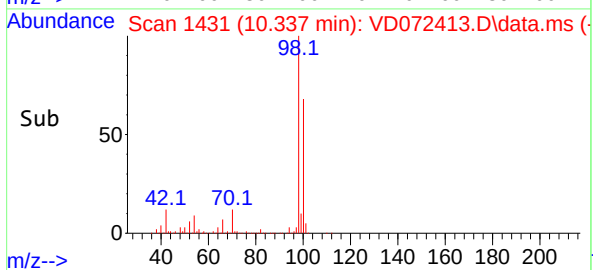
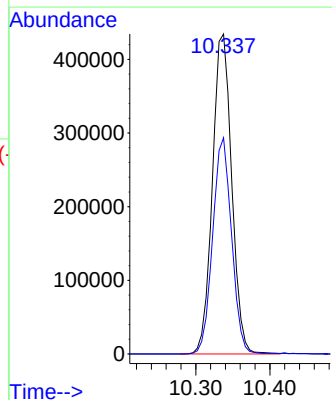
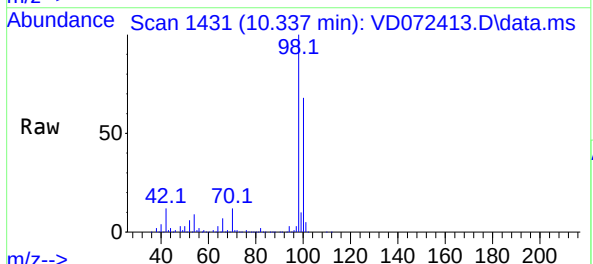
Instrument :  
MSVOA\_D  
ClientSampleId :  
VNJ-212

Tgt Ion:117 Resp: 39238  
Ion Ratio Lower Upper  
117 100  
119 4.9 75.8 113.6#  
121 0.0 24.5 36.7#

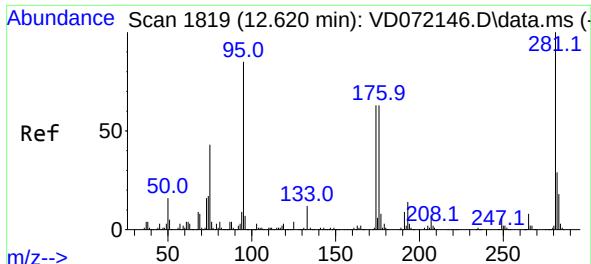


#50  
Toluene-d8  
Concen: 49.315 ug/l  
RT: 10.337 min Scan# 1431  
Delta R.T. 0.006 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

Tgt Ion: 98 Resp: 785077  
Ion Ratio Lower Upper  
98 100  
100 66.3 52.4 78.6



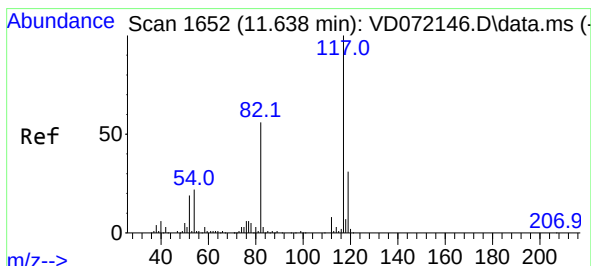
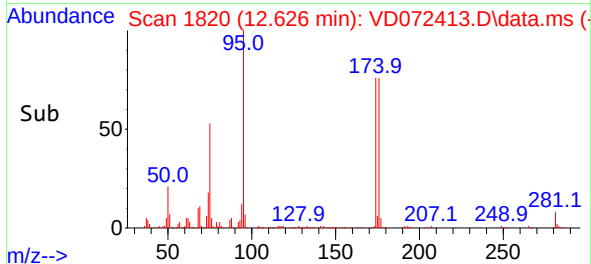
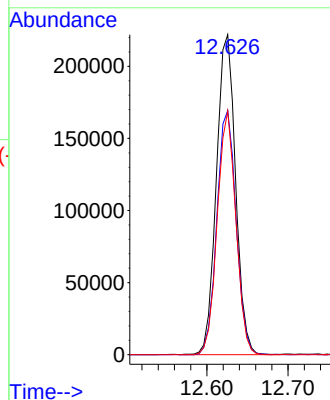
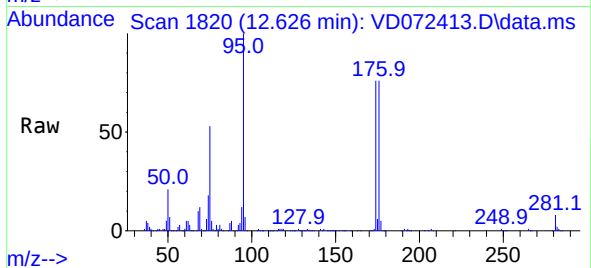




#62  
4-Bromofluorobenzene  
Concen: 58.935 ug/l  
RT: 12.626 min Scan# 1819  
Delta R.T. 0.006 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

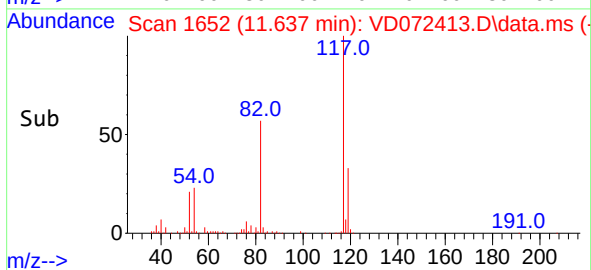
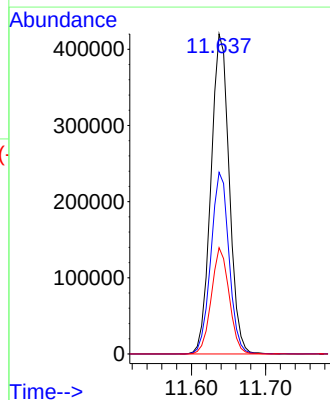
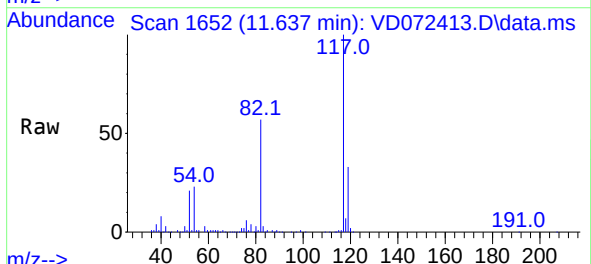
Instrument :  
MSVOA\_D  
ClientSampleId :  
VNJ-212

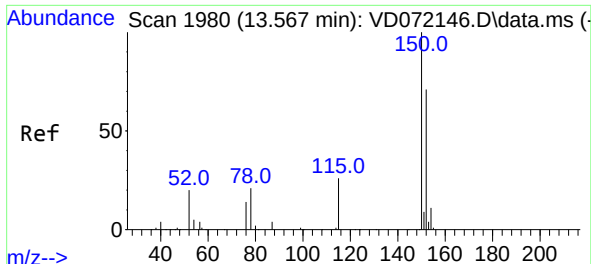
Tgt Ion: 95 Resp: 364552  
Ion Ratio Lower Upper  
95 100  
174 76.7 0.0 152.8  
176 73.7 0.0 145.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.637 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

Tgt Ion: 117 Resp: 720247  
Ion Ratio Lower Upper  
117 100  
82 56.7 45.3 67.9  
119 33.2 26.6 40.0

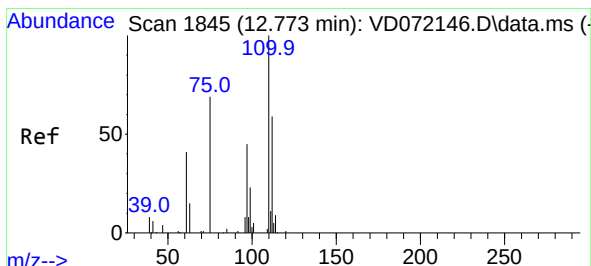
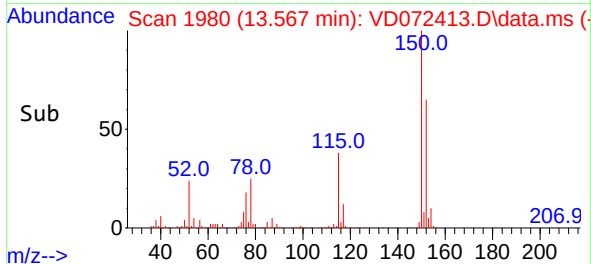
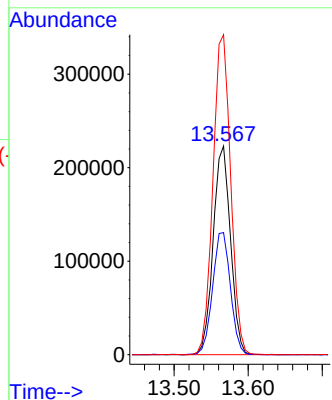
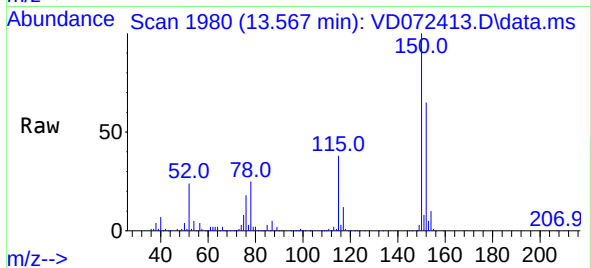




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.567 min Scan# 1980  
Delta R.T. -0.000 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

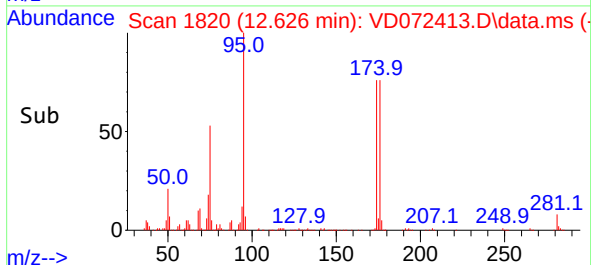
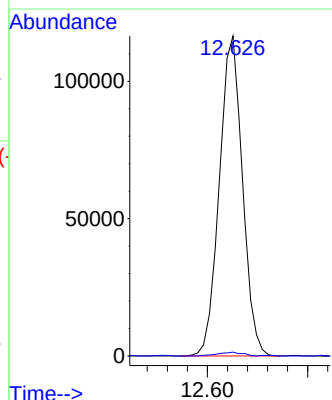
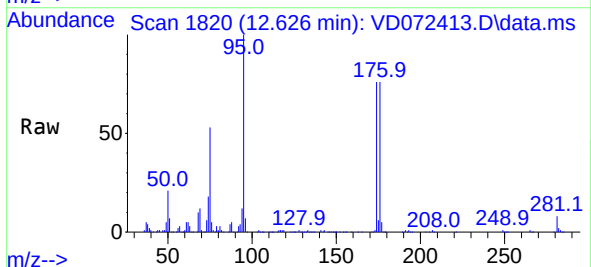
Instrument :  
MSVOA\_D  
ClientSampleId :  
VNJ-212

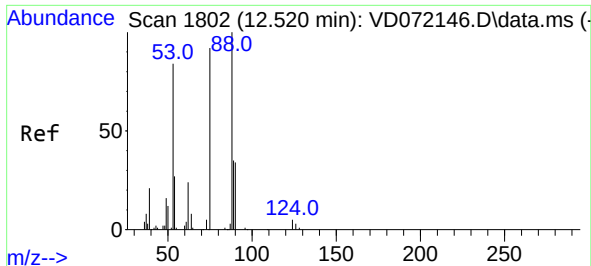
Tgt Ion:152 Resp: 362919  
Ion Ratio Lower Upper  
152 100  
115 60.3 31.3 93.8  
150 156.4 0.0 348.6



#76  
1,2,3-Trichloropropane  
Concen: 46.469 ug/l  
RT: 12.626 min Scan# 1820  
Delta R.T. -0.147 min  
Lab File: VD072413.D  
Acq: 24 Mar 2022 17:47

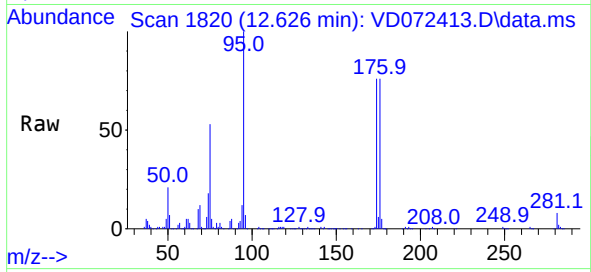
Tgt Ion: 75 Resp: 186029  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 115.294 ug/l  
 RT: 12.626 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VD072413.D  
 Acq: 24 Mar 2022 17:47

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VNJ-212



Tgt Ion: 75 Resp: 186029  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 86.5 129.7#  
 89 0.2 33.9 50.9#

