

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD100721\  
 Data File : VD070621.D  
 Acq On : 07 Oct 2021 17:12  
 Operator : VA/SY  
 Sample : M4117-02  
 Misc : 2.50G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SB-1(3-3.5)

Quant Time: Oct 08 04:53:42 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D100521S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 06 09:10:31 2021  
 Response via : Initial Calibration

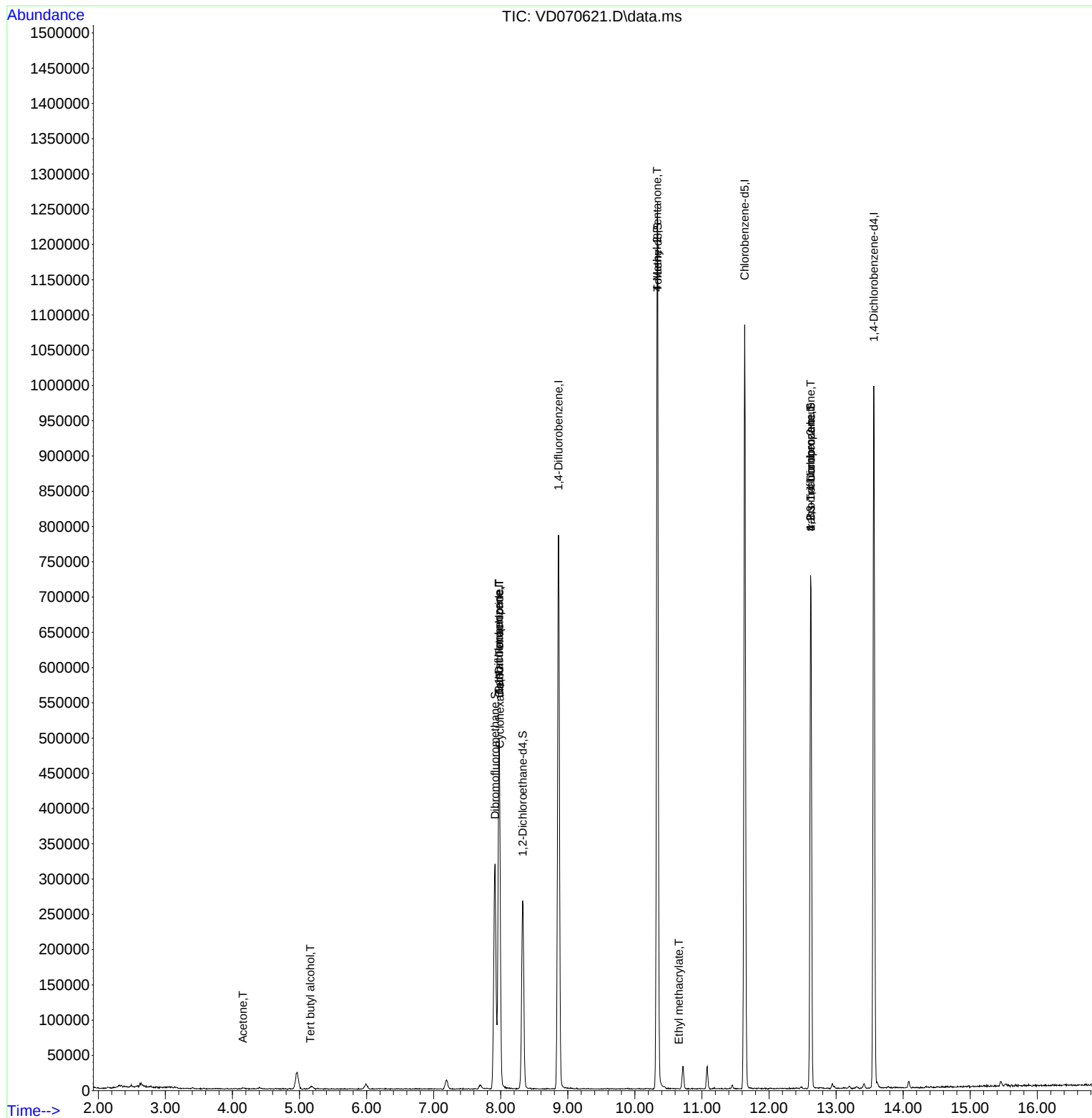
| Compound                      | R.T.           | QIon | Response           | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|--------------------|-----------|--------|----------|
| -----                         |                |      |                    |           |        |          |
| Internal Standards            |                |      |                    |           |        |          |
| 1) Pentafluorobenzene         | 7.973          | 168  | 360391             | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861          | 114  | 684913             | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.638         | 117  | 654151             | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561         | 152  | 264146             | 50.00     | ug/l   | 0.00     |
|                               |                |      |                    |           |        |          |
| System Monitoring Compounds   |                |      |                    |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.326          | 65   | 216467             | 51.04     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 50 - 163 |      | Recovery = 102.08% |           |        |          |
| 35) Dibromofluoromethane      | 7.914          | 113  | 230895             | 50.70     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 54 - 147 |      | Recovery = 101.40% |           |        |          |
| 50) Toluene-d8                | 10.338         | 98   | 891045             | 51.19     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 49 - 140 |      | Recovery = 102.38% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.620         | 95   | 263384             | 45.27     | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 25 - 144 |      | Recovery = 90.54%  |           |        |          |
|                               |                |      |                    |           |        |          |
| Target Compounds              |                |      |                    |           |        |          |
| 5) Bromomethane               | 2.779          | 94   | 994                | Below Cal | #      | 71       |
| 11) Tert butyl alcohol        | 5.162          | 59   | 2081               | 9.90      | ug/l # | 83       |
| 16) Acetone                   | 4.156          | 43   | 2870               | 3.98      | ug/l # | 77       |
| 20) Methylene Chloride        | 4.968          | 84   | 19861              | Below Cal |        | 90       |
| 31) Cyclohexane               | 7.985          | 56   | 8195               | 1.04      | ug/l # | 13       |
| 36) 1,1-Dichloropropene       | 7.973          | 75   | 30021              | 4.13      | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.979          | 117  | 39835              | 5.23      | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.332         | 43   | 2972               | 1.30      | ug/l # | 1        |
| 56) Ethyl methacrylate        | 10.655         | 69   | 63                 | 1.39      | ug/l # | 32       |
| 59) 2-Hexanone                | 11.079         | 43   | 175                | Below Cal | #      | 20       |
| 76) 1,2,3-Trichloropropane    | 12.620         | 75   | 121230             | 50.71     | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.620         | 75   | 121230             | 112.58    | ug/l # | 17       |
| -----                         |                |      |                    |           |        |          |

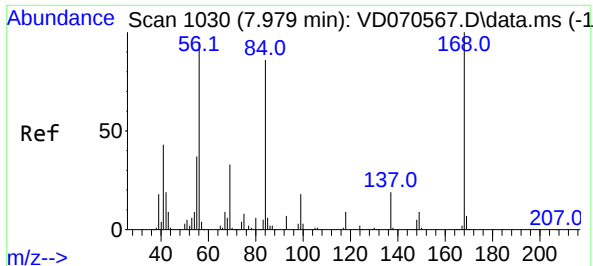
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : M4117-02  
Misc : 2.50G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-1(3-3.5)

Quant Time: Oct 08 04:53:42 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D100521S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 06 09:10:31 2021  
Response via : Initial Calibration

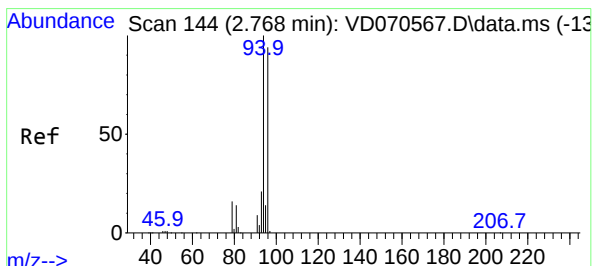
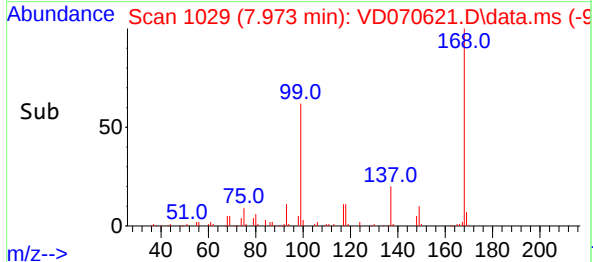
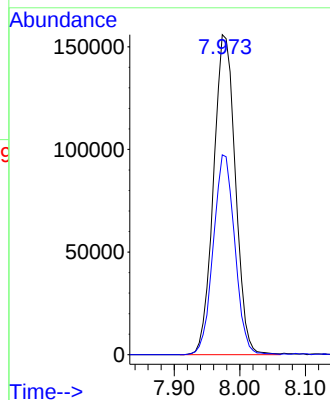
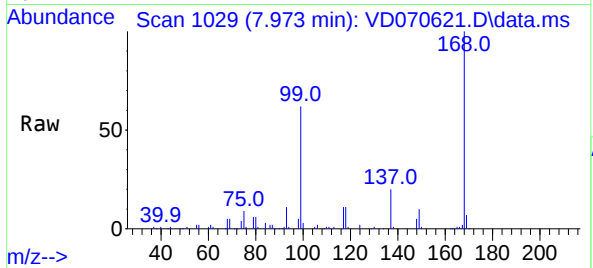




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

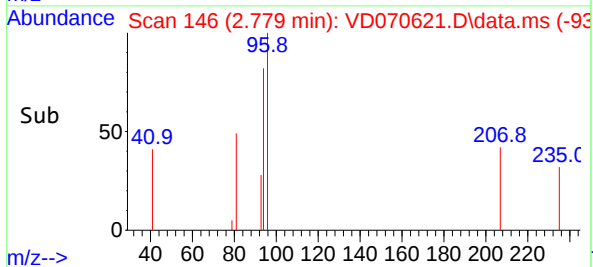
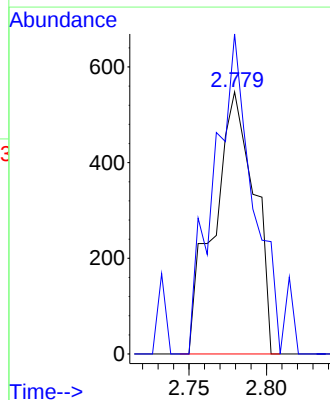
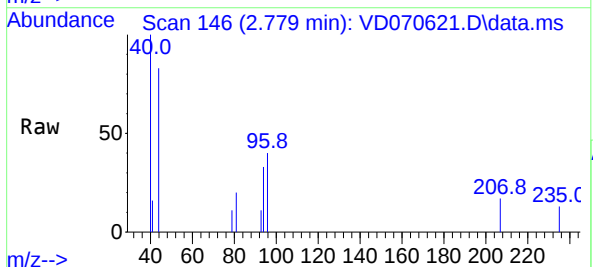
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-1(3-3.5)

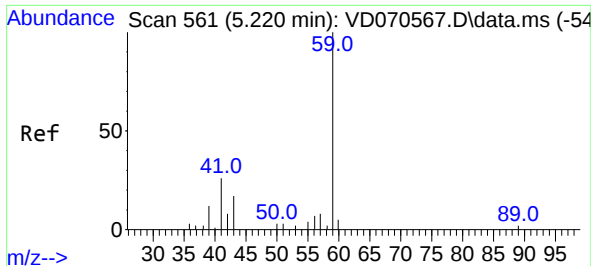
Tgt Ion:168 Resp: 360391  
Ion Ratio Lower Upper  
168 100  
99 62.5 51.4 77.0



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.779 min Scan# 146  
Delta R.T. 0.011 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

Tgt Ion: 94 Resp: 994  
Ion Ratio Lower Upper  
94 100  
96 122.1 75.5 113.3#



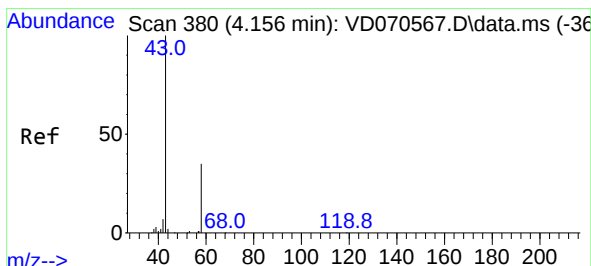
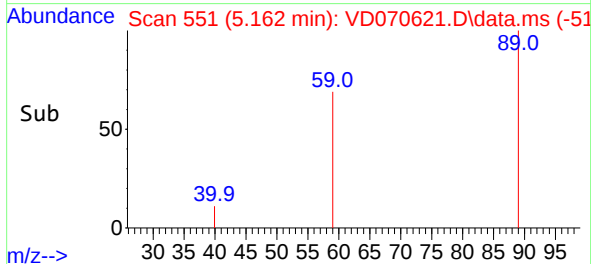
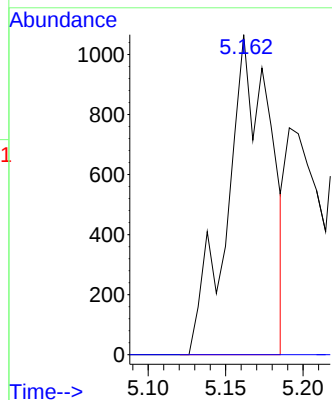
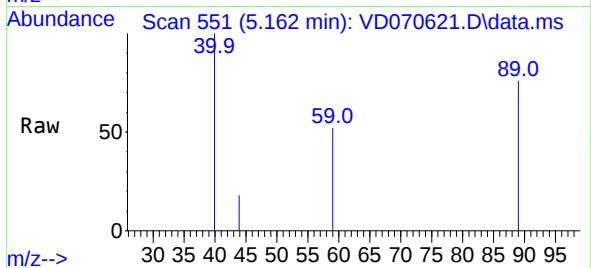


#11

Tert butyl alcohol  
Concen: 9.90 ug/l  
RT: 5.162 min Scan# 551  
Delta R.T. -0.058 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-1(3-3.5)

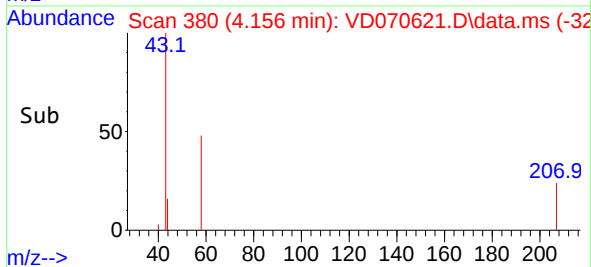
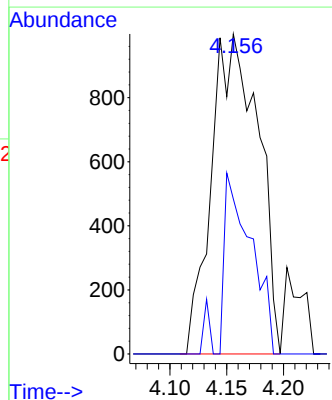
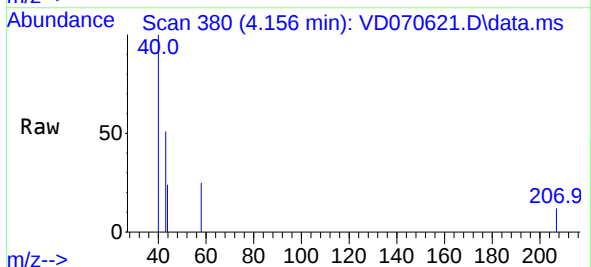
Tgt Ion: 59 Resp: 2081  
Ion Ratio Lower Upper  
59 100  
57 0.0 4.5 6.7#

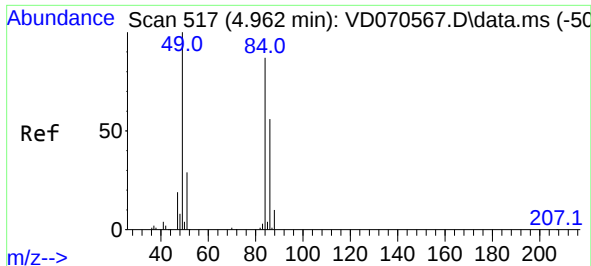


#16

Acetone  
Concen: 3.98 ug/l  
RT: 4.156 min Scan# 380  
Delta R.T. 0.000 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

Tgt Ion: 43 Resp: 2870  
Ion Ratio Lower Upper  
43 100  
58 48.4 28.2 42.2#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.968 min Scan# 518

Delta R.T. 0.006 min

Lab File: VD070621.D

Acq: 07 Oct 2021 17:12

Instrument :

MSVOA\_D

ClientSampleId :

SB-1(3-3.5)

Tgt Ion: 84 Resp: 19861

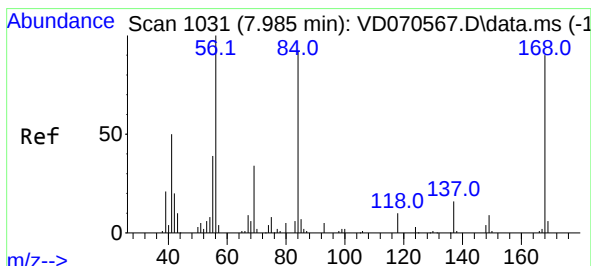
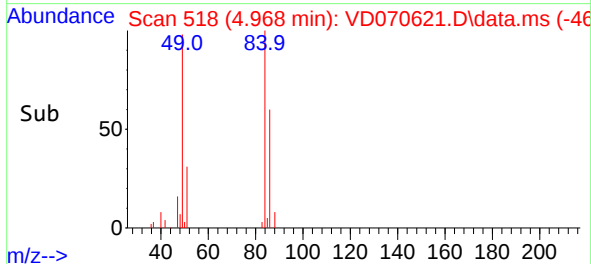
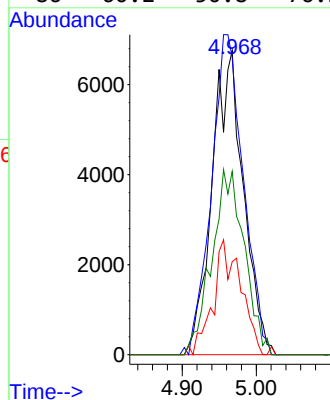
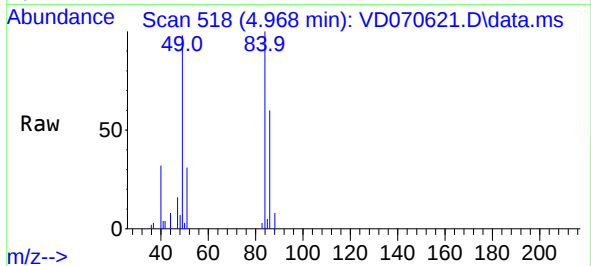
Ion Ratio Lower Upper

84 100

49 97.6 91.4 137.2

51 30.6 26.7 40.1

86 60.2 50.8 76.2



#31

Cyclohexane

Concen: 1.04 ug/l

RT: 7.985 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VD070621.D

Acq: 07 Oct 2021 17:12

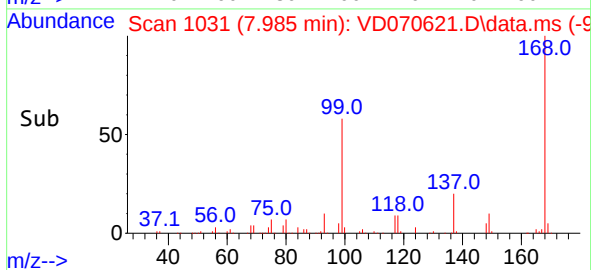
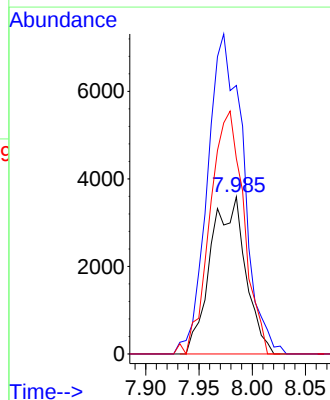
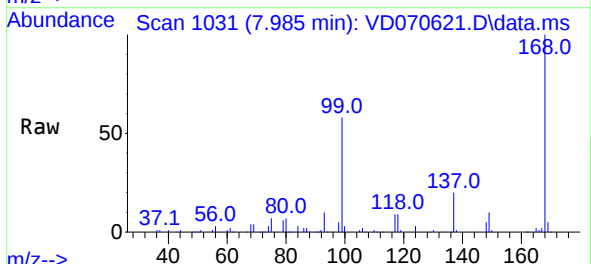
Tgt Ion: 56 Resp: 8195

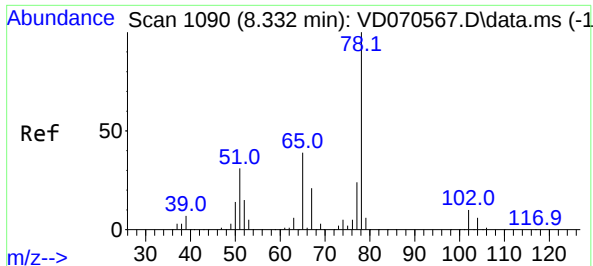
Ion Ratio Lower Upper

56 100

69 165.8 27.4 41.2#

84 124.4 73.6 110.4#

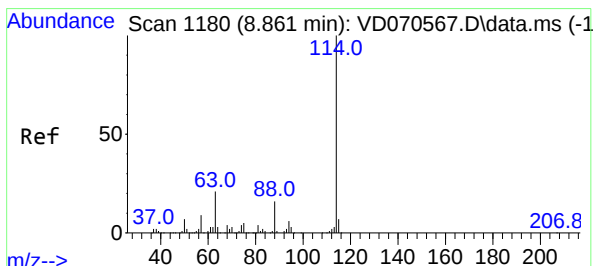
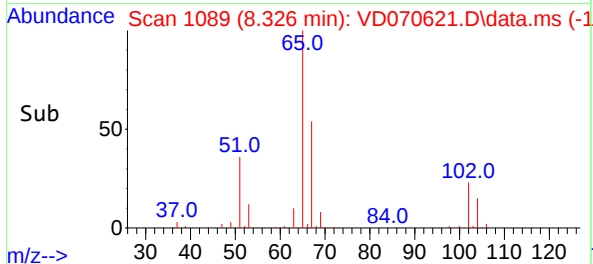
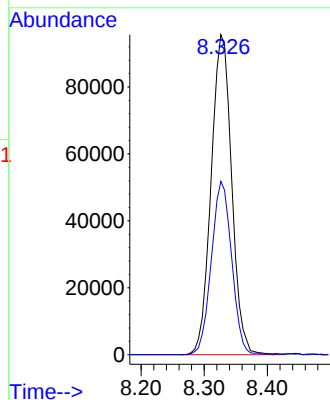
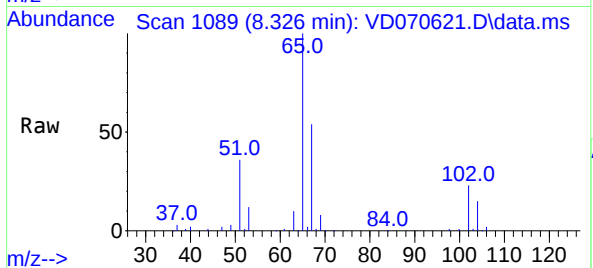




#33  
1,2-Dichloroethane-d4  
Concen: 51.04 ug/l  
RT: 8.326 min Scan# 1089  
Delta R.T. -0.006 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

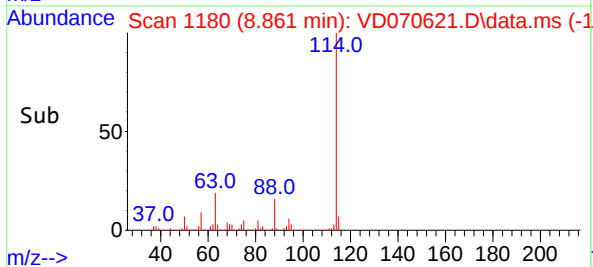
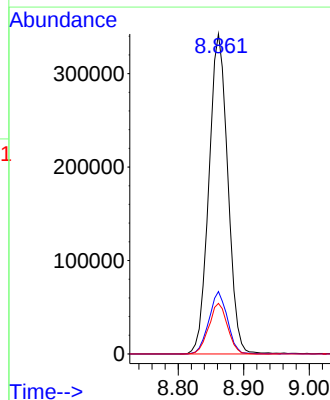
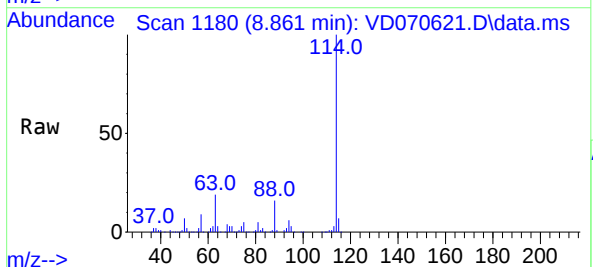
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-1(3-3.5)

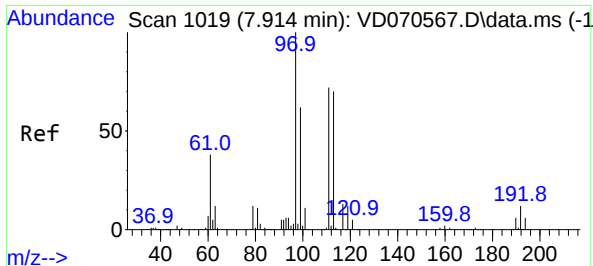
Tgt Ion: 65 Resp: 216467  
Ion Ratio Lower Upper  
65 100  
67 53.4 0.0 110.2



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.861 min Scan# 1180  
Delta R.T. 0.000 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

Tgt Ion: 114 Resp: 684913  
Ion Ratio Lower Upper  
114 100  
63 19.5 0.0 41.8  
88 15.8 0.0 32.6

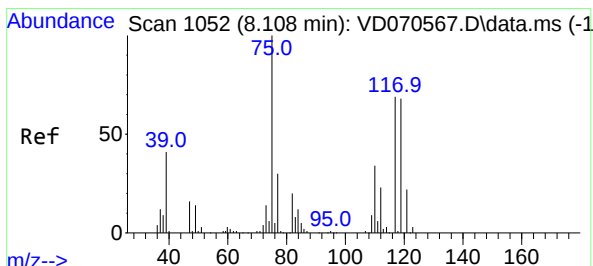
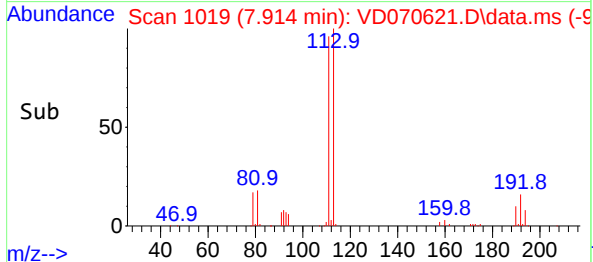
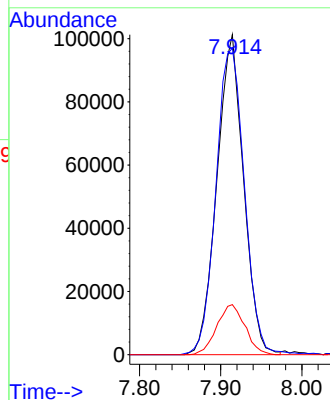
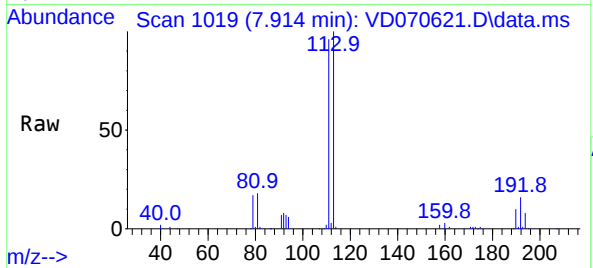




#35  
Dibromofluoromethane  
Concen: 50.70 ug/l  
RT: 7.914 min Scan# 1019  
Delta R.T. 0.000 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

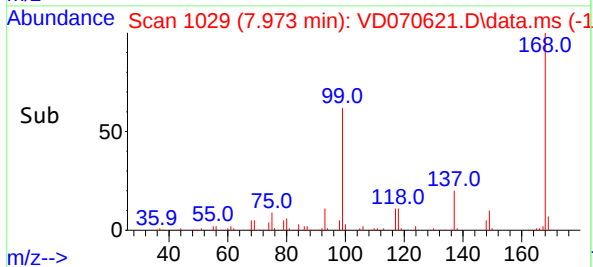
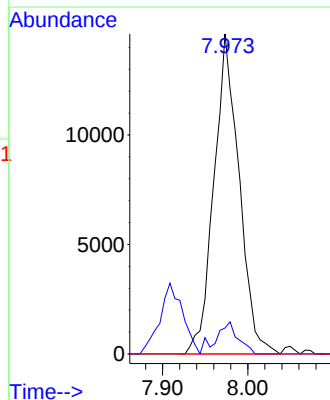
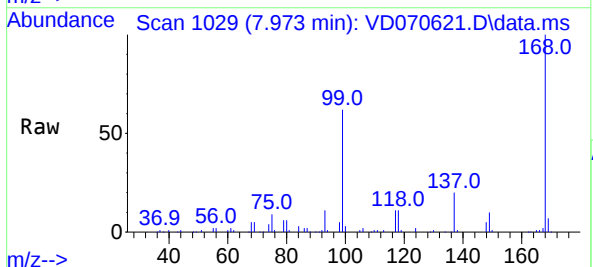
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-1(3-3.5)

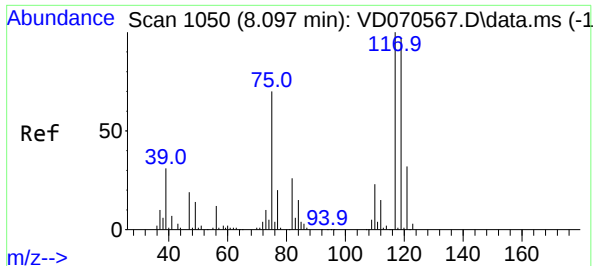
Tgt Ion:113 Resp: 230895  
Ion Ratio Lower Upper  
113 100  
111 102.7 83.1 124.7  
192 16.6 12.7 19.1



#36  
1,1-Dichloropropene  
Concen: 4.13 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.135 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

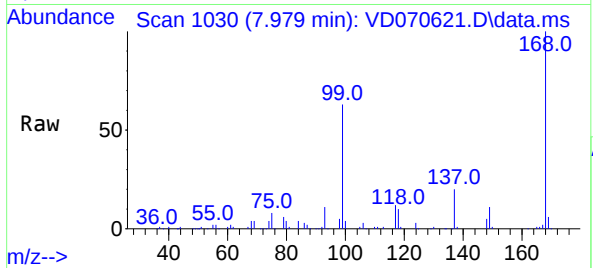
Tgt Ion: 75 Resp: 30021  
Ion Ratio Lower Upper  
75 100  
110 8.7 17.2 51.6#  
77 0.0 24.2 36.4#



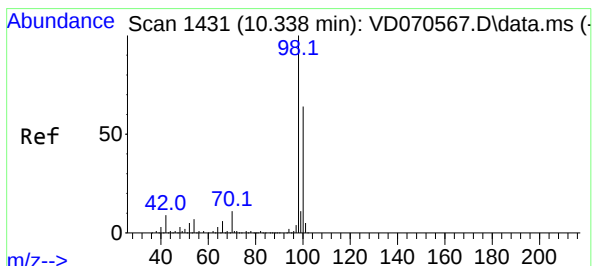
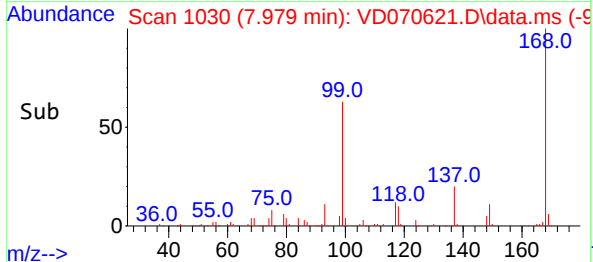
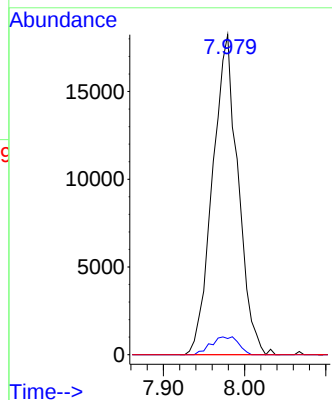


#38  
Carbon Tetrachloride  
Concen: 5.23 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.118 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

Instrument :  
MSVOA\_D  
ClientSampled :  
SB-1(3-3.5)

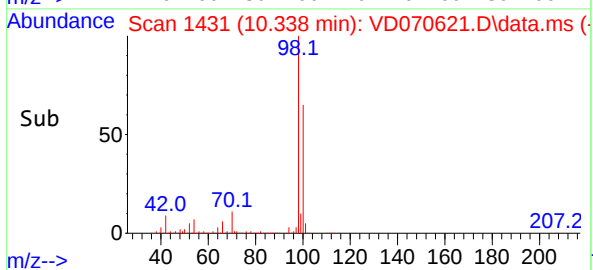
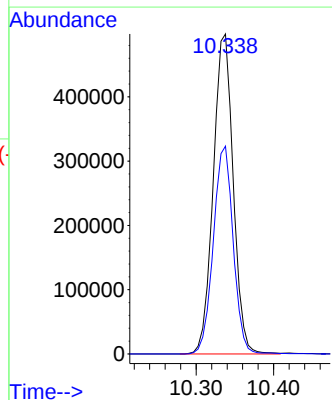
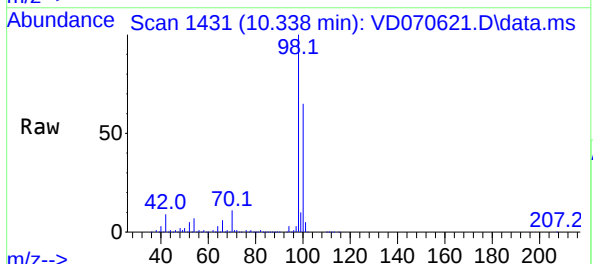


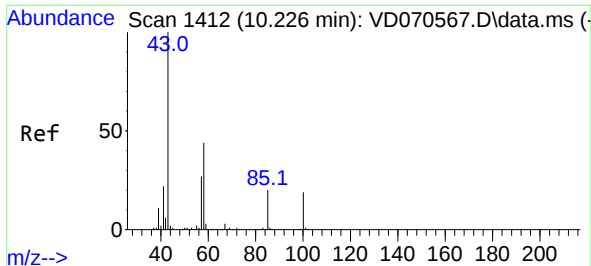
Tgt Ion:117 Resp: 39835  
Ion Ratio Lower Upper  
117 100  
119 5.1 77.4 116.0#  
121 0.0 25.4 38.0#



#50  
Toluene-d8  
Concen: 51.19 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.000 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

Tgt Ion: 98 Resp: 891045  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.2 78.4

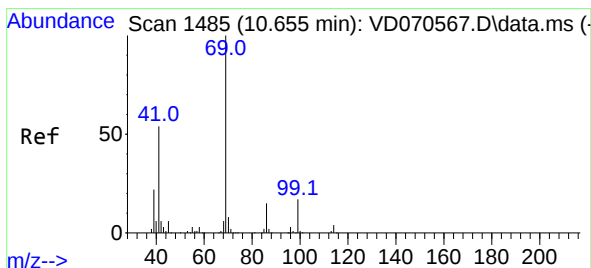
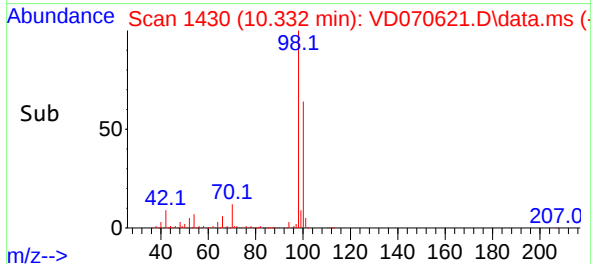
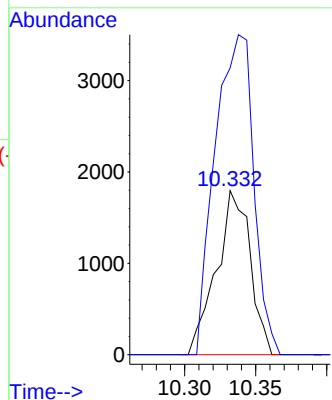
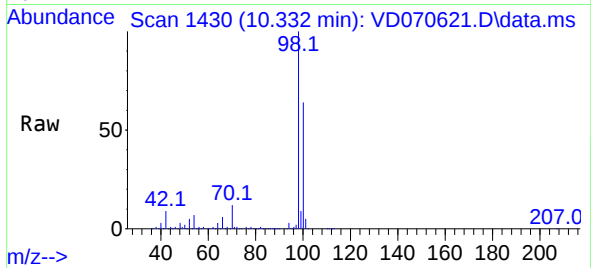




#51  
4-Methyl-2-Pentanone  
Concen: 1.30 ug/l  
RT: 10.332 min Scan# 1430  
Delta R.T. 0.106 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

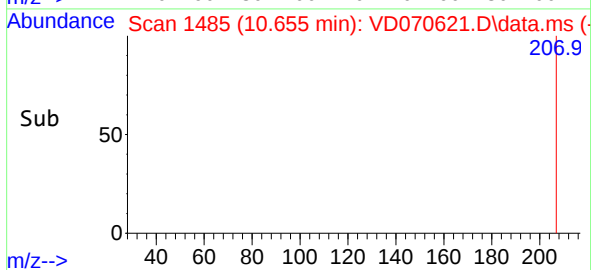
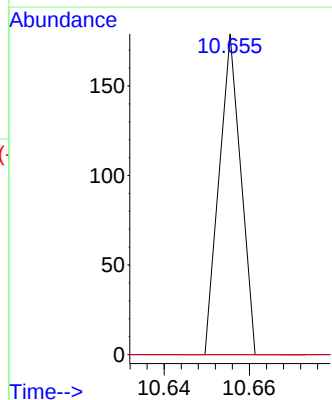
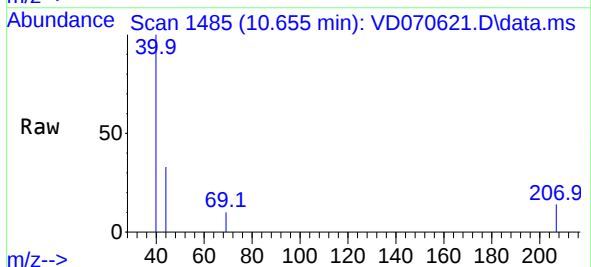
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-1(3-3.5)

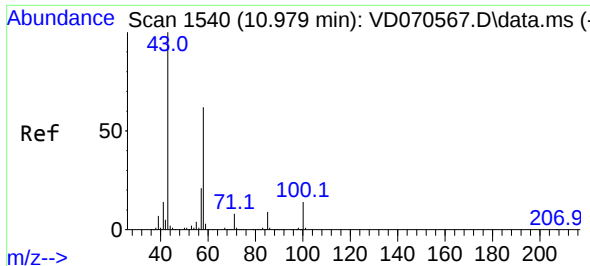
Tgt Ion: 43 Resp: 2972  
Ion Ratio Lower Upper  
43 100  
58 223.2 35.0 52.6#



#56  
Ethyl methacrylate  
Concen: 1.39 ug/l  
RT: 10.655 min Scan# 1485  
Delta R.T. 0.000 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

Tgt Ion: 69 Resp: 63  
Ion Ratio Lower Upper  
69 100  
41 0.0 44.7 67.1#  
39 0.0 19.5 29.3#

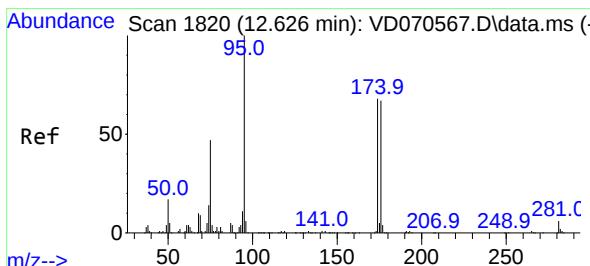
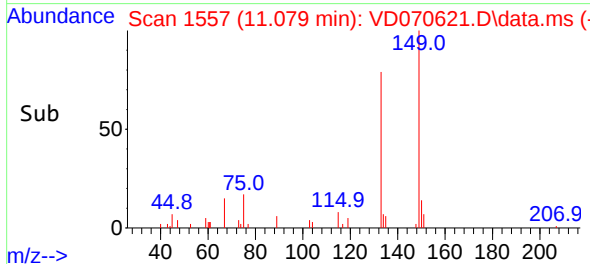
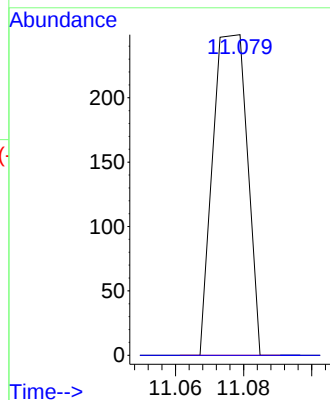
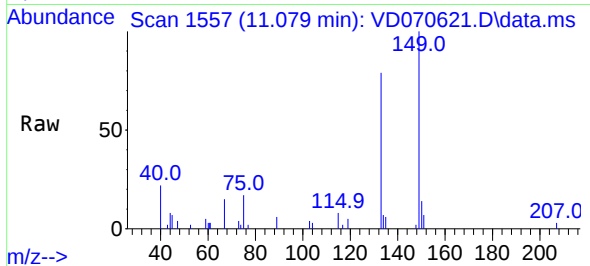




#59  
2-Hexanone  
Concen: Below Cal  
RT: 11.079 min Scan# 1557  
Delta R.T. 0.100 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

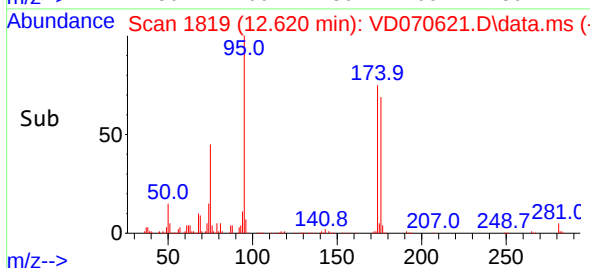
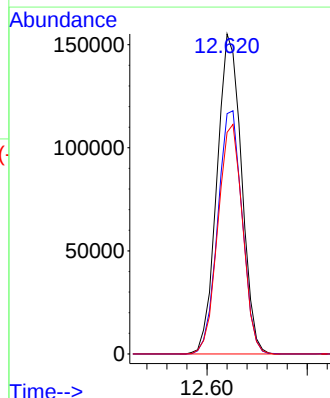
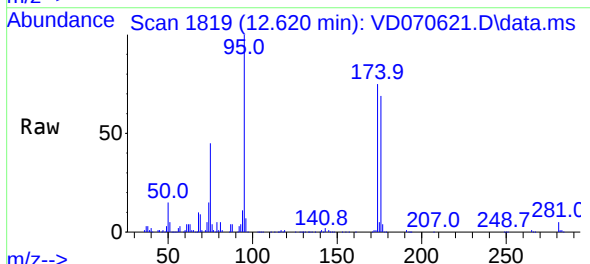
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-1(3-3.5)

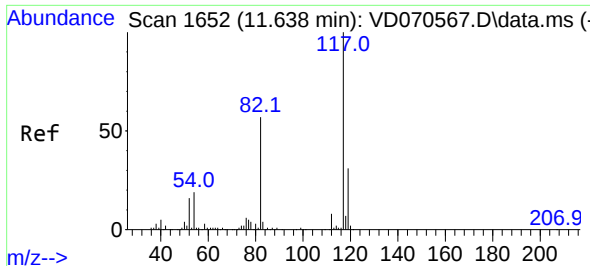
Tgt Ion: 43 Resp: 175  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.4 91.3#



#62  
4-Bromofluorobenzene  
Concen: 45.27 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.006 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

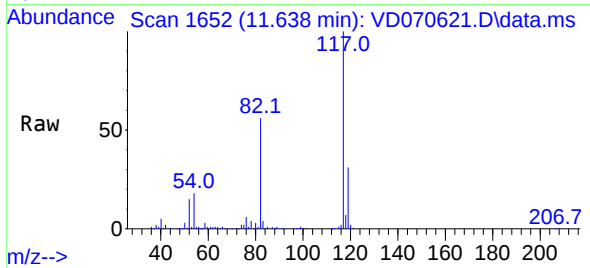
Tgt Ion: 95 Resp: 263384  
Ion Ratio Lower Upper  
95 100  
174 75.9 0.0 138.0  
176 72.1 0.0 135.6



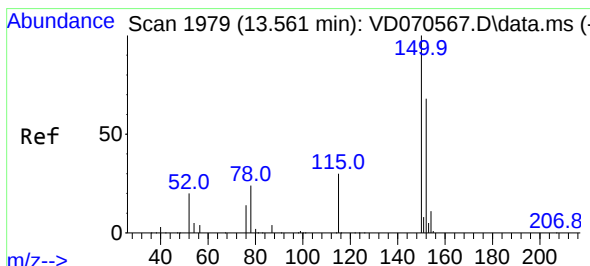
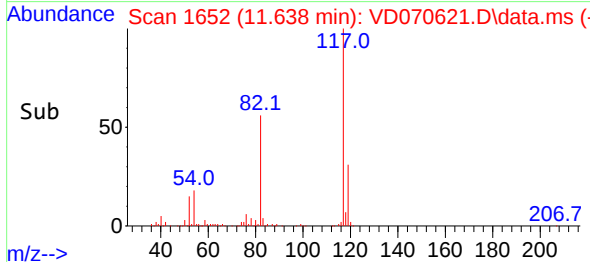
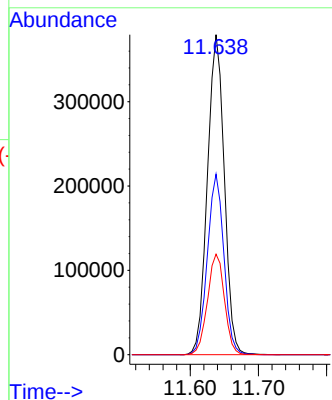


#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

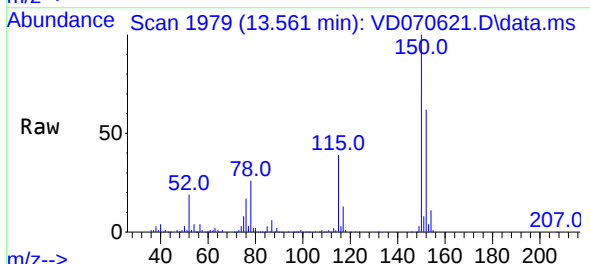
Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-1(3-3.5)



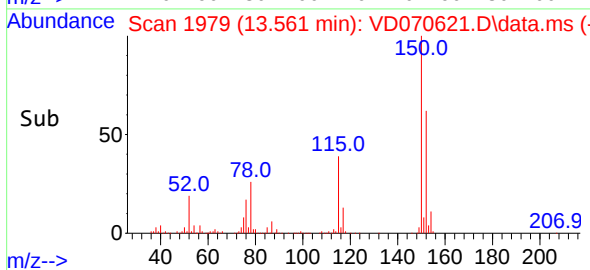
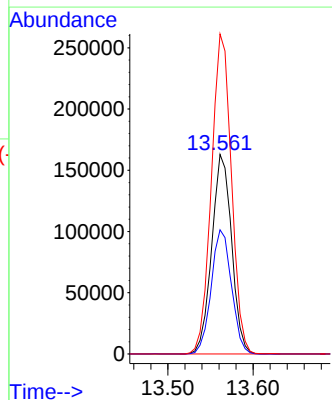
Tgt Ion:117 Resp: 654151  
Ion Ratio Lower Upper  
117 100  
82 56.4 45.4 68.2  
119 31.4 24.7 37.1

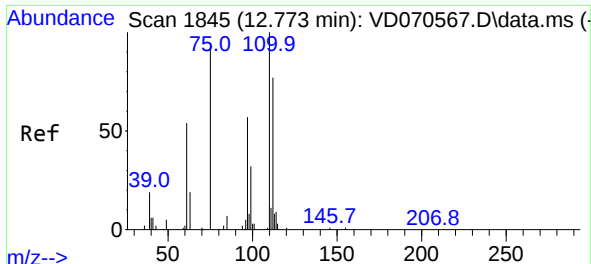


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12



Tgt Ion:152 Resp: 264146  
Ion Ratio Lower Upper  
152 100  
115 63.2 31.9 95.7  
150 161.4 0.0 350.0

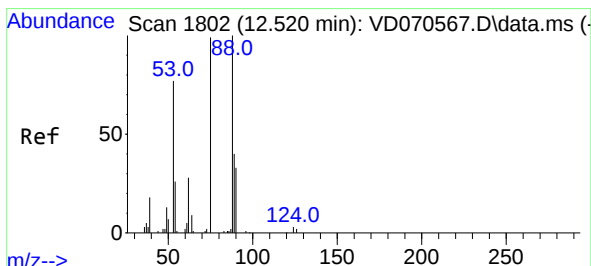
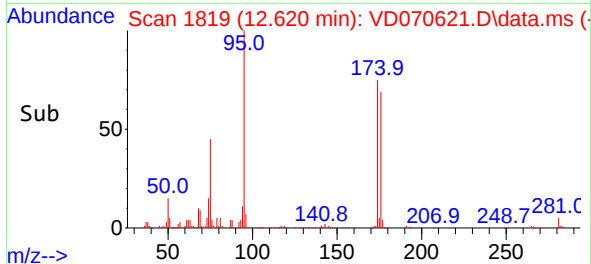
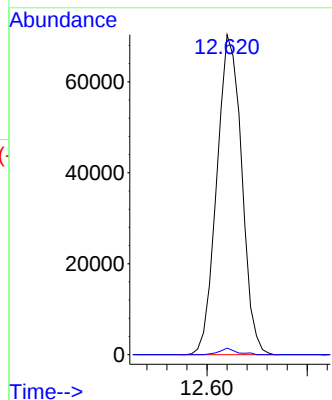
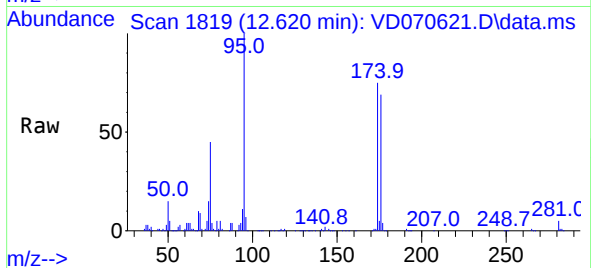




#76  
1,2,3-Trichloropropane  
Concen: 50.71 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.153 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

Instrument :  
MSVOA\_D  
ClientSampleId :  
SB-1(3-3.5)

Tgt Ion: 75 Resp: 121230  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 112.58 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. 0.100 min  
Lab File: VD070621.D  
Acq: 07 Oct 2021 17:12

Tgt Ion: 75 Resp: 121230  
Ion Ratio Lower Upper  
75 100  
53 0.2 64.5 96.7#  
89 0.0 35.3 52.9#

