

Analysis of VOCs in Drinking Water

1. Analytical Condition

HS-GC/MSD System

YL6900 GC/MSD

Oven : 40 °C(5 min) -> 10 °C/min -> 200 °C(5 min)

Column : DB-624 (60 m × 0.25 mm × 1.4 μm)

Carrier Gas : He, 1 mL/min (Split Ratio 10:1)

Injector : Capillary 250 °C

Detector : MSD (Scan & SIM Mode)

Ion Source : 200 °C , Transfer Line : 230 °C

Scan Range : 12-500 amu

Headspace(Versa)

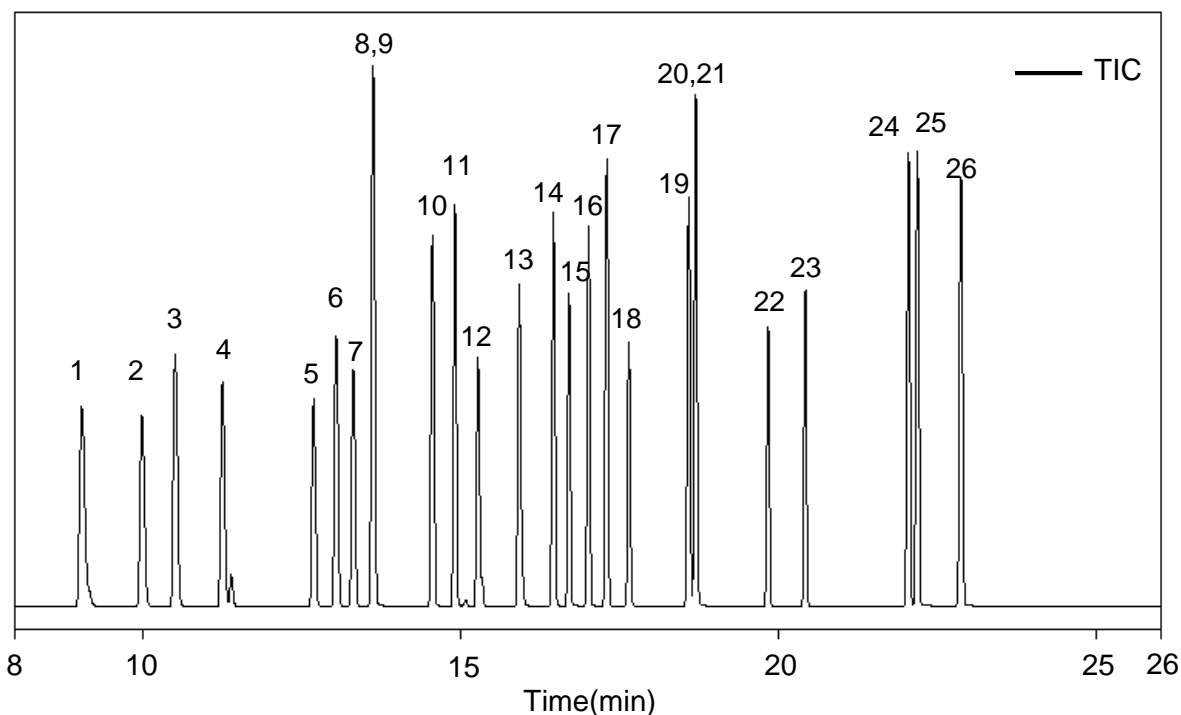
Platen/Sample Temp. : 85 °C

Sample Equil. Time : 20 min

Transfer Line Temp. : 95 °C

Inject Time : 10 min

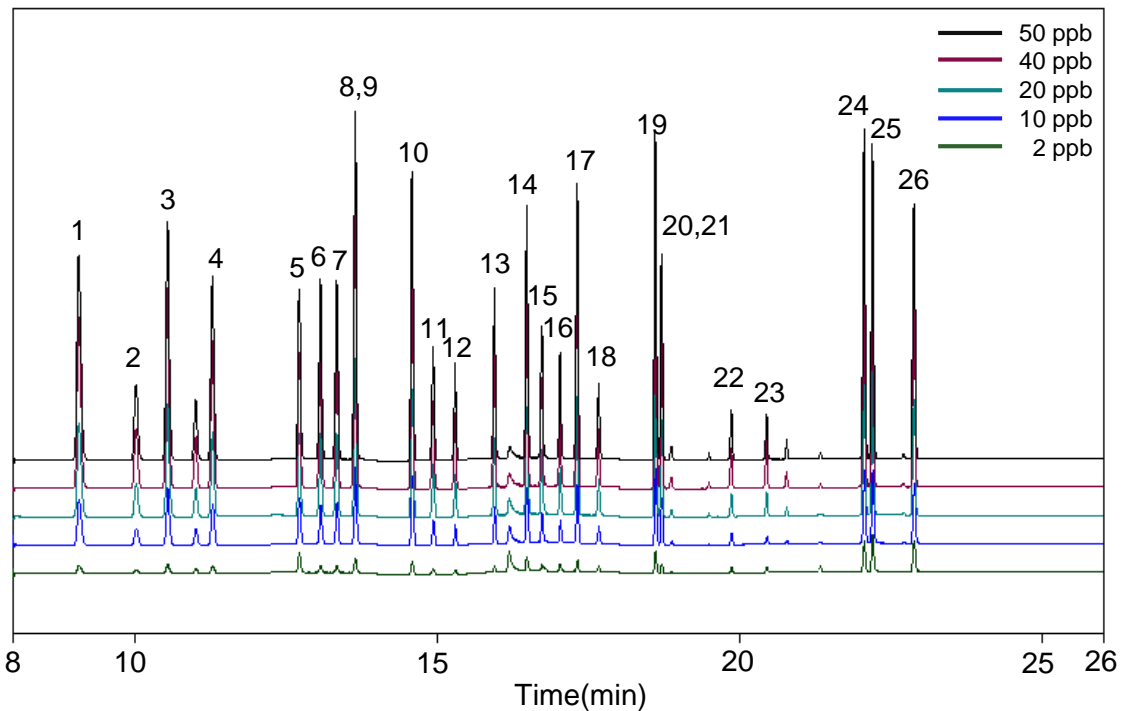
2. Chromatogram (Scan Mode)



1 1,1-Dichloroethylene	7 Carbon tetrachloride	14 Toluene	20,21 Ethylbenzene & 2-Chloroethyl vinyl ether
2 Dichloromethane	8, 9 Benzene & 1,2-Dichloroethane	15 <i>trans</i> -1,3-Dichloropropene	22 Bromoform
3 <i>trans</i> -1,2-Dichloroethylene	10 Trichloroethylene	16 1,1,2-Trichloroethane	23 1,1,2,2-Tetrachloroethane
4 1,1-Dichloroethane	11 1,2-Dichloropropane	17 Tetrachloroethylene	24 1,3-Dichlorobenzene
5 Chloroform	12 Bromodichloromethane	18 Dibromochloromethane	25 1,4-Dichlorobenzene

Analysis of VOCs in Drinking Water

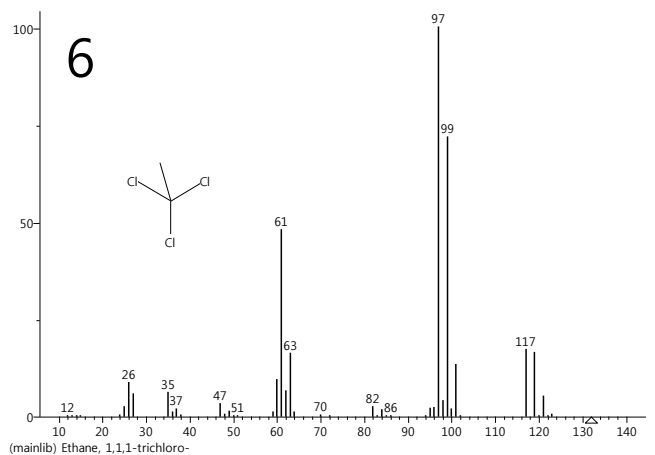
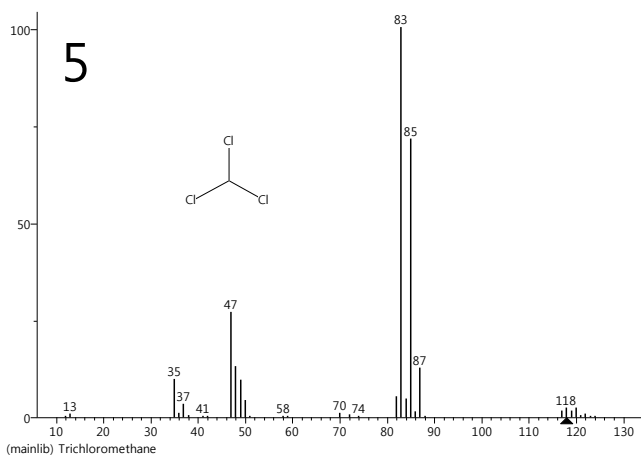
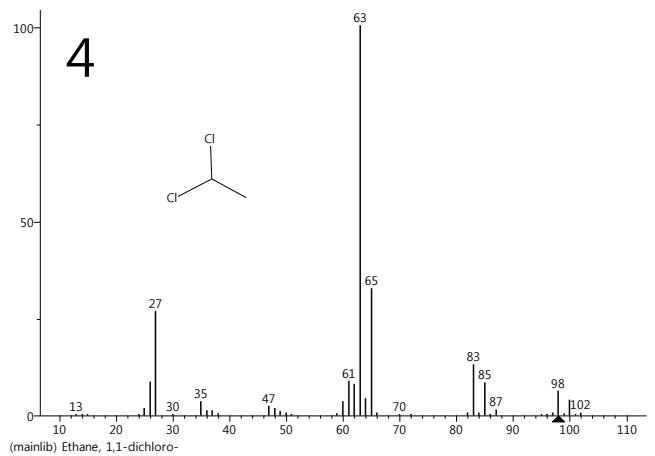
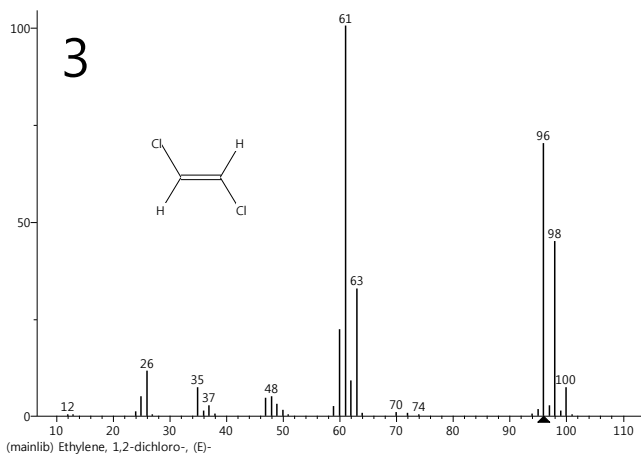
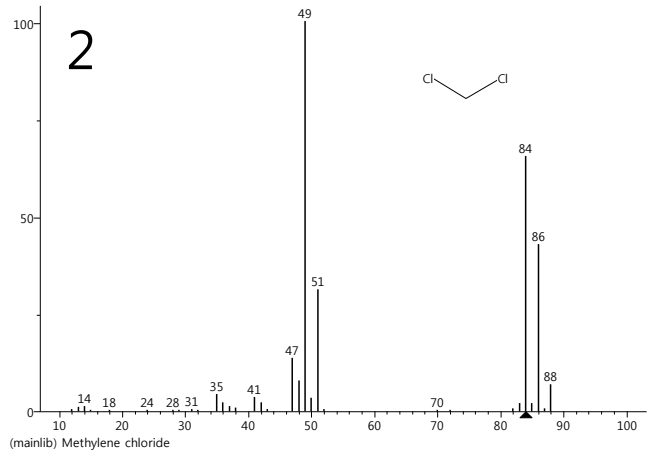
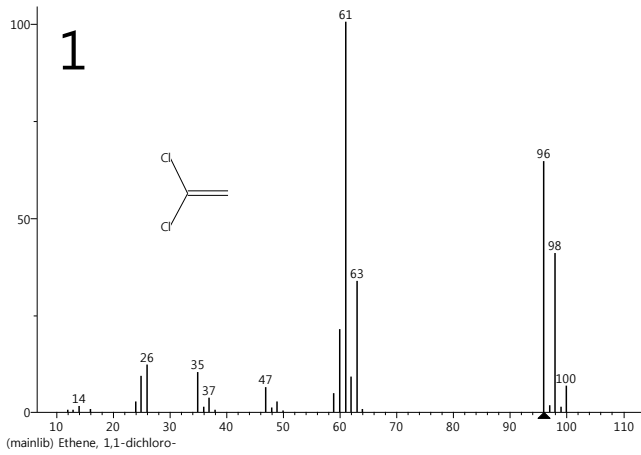
3. Chromatogram (SIM Mode)



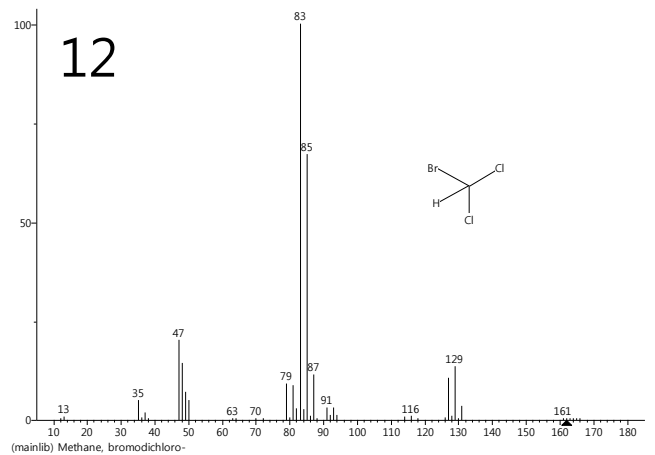
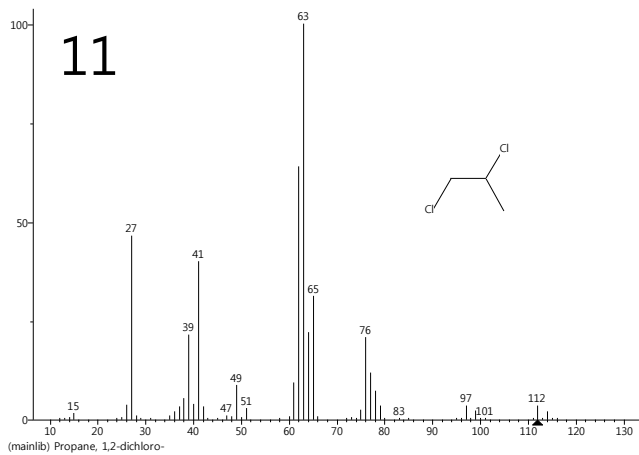
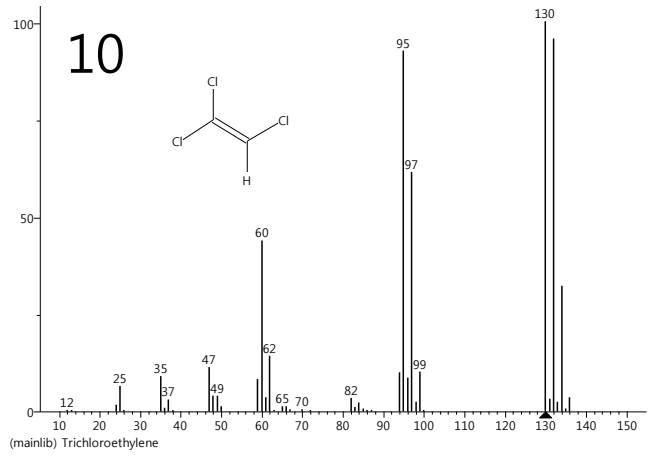
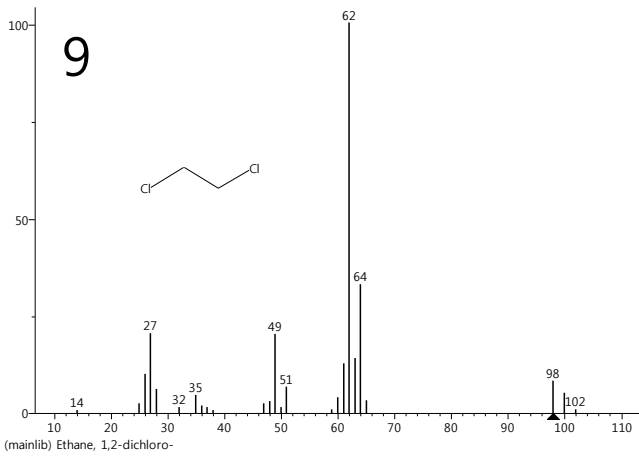
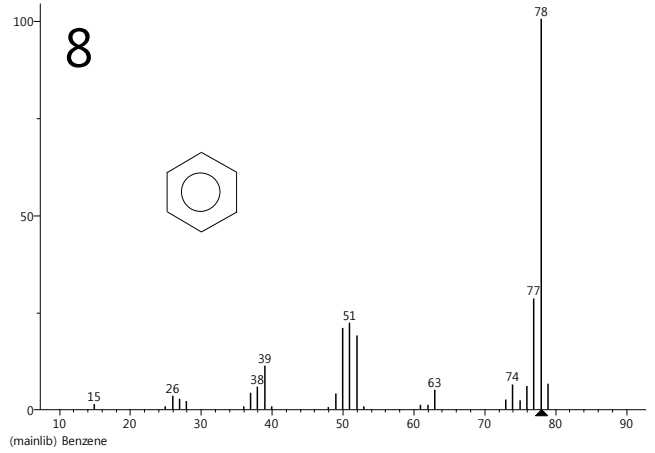
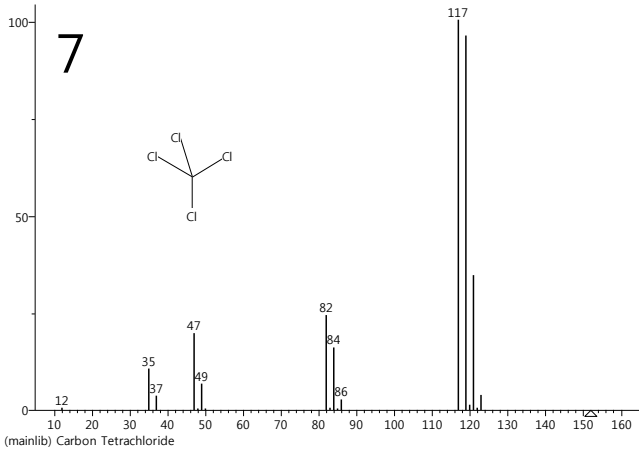
1	1,1-Dichloroethylene	7	Carbon tetrachloride	14	Toluene	20,21	Ethylbenzene & 2-Chloroethyl vinyl ether
2	Dichloromethane	8, 9	Benzene & 1,2-Dichloroethane	15	<i>trans</i> -1,3-Dichloropropene	22	Bromoform
3	<i>trans</i> -1,2-Dichloroethylene	10	Trichloroethylene	16	1,1,2-Trichloroethane	23	1,1,2,2-Tetrachloroethane
4	1,1-Dichloroethane	11	1,2-Dichloropropane	17	Tetrachloroethylene	24	1,3-Dichlorobenzene
5	Chloroform	12	Bromodichloromethane	18	Dibromochloromethane	25	1,4-Dichlorobenzene

Analysis of VOCs in Drinking Water

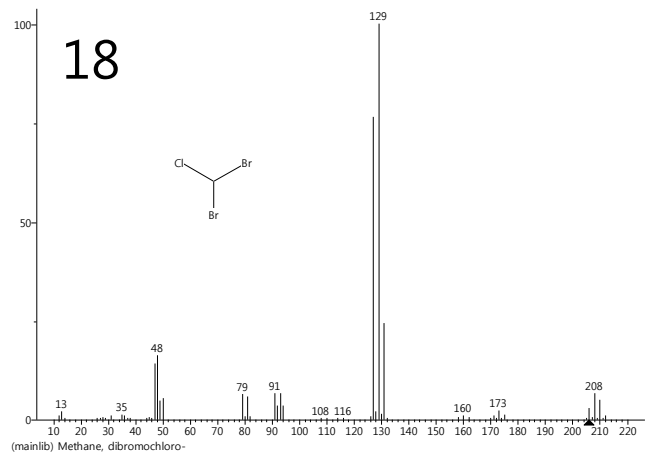
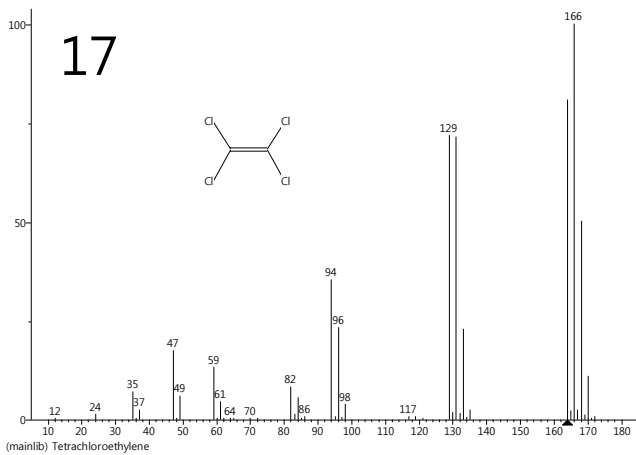
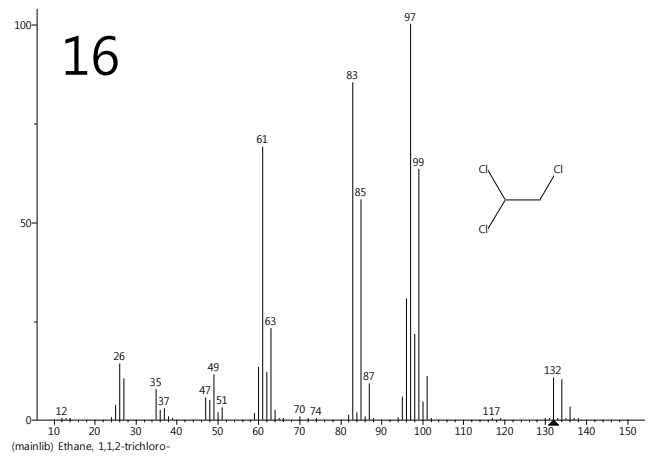
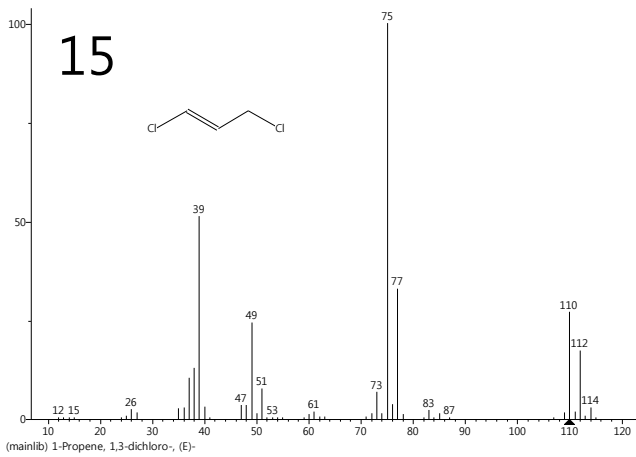
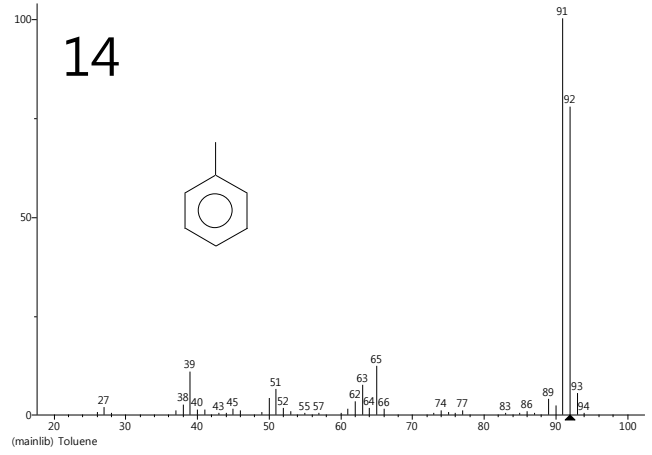
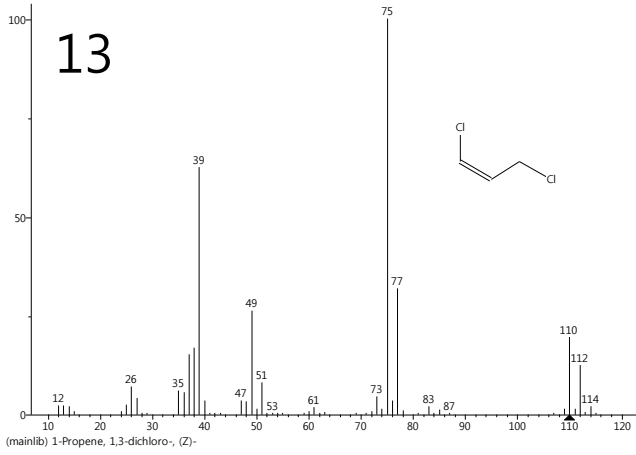
4. Spectra



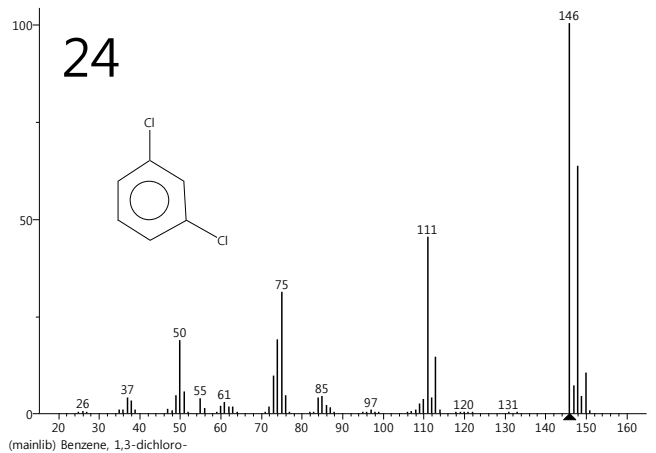
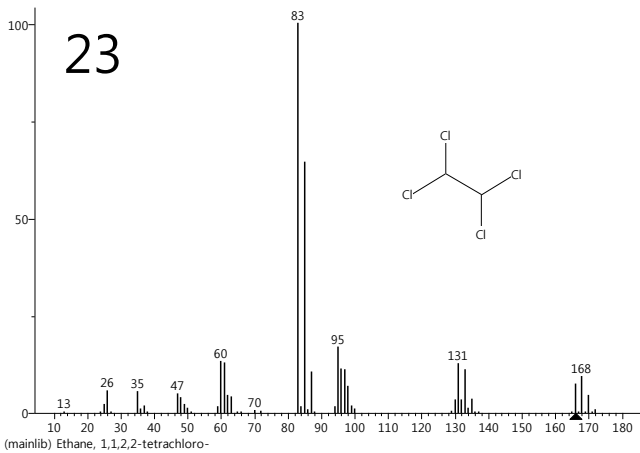
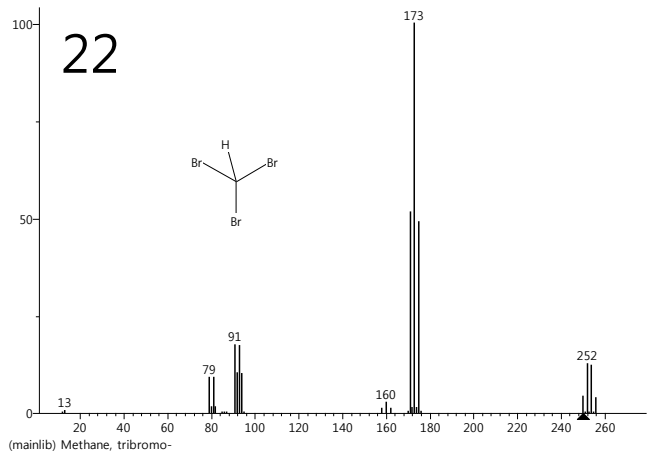
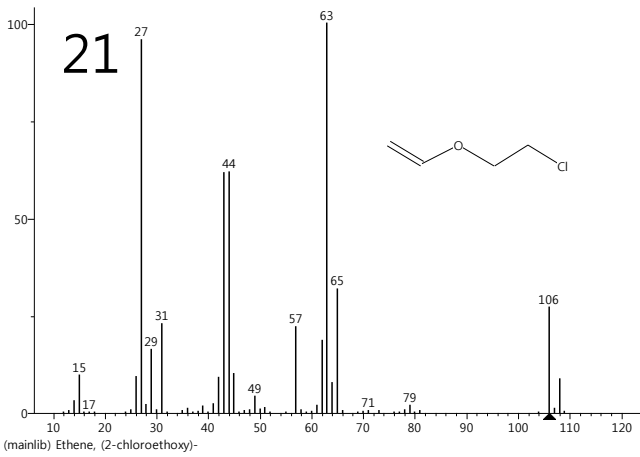
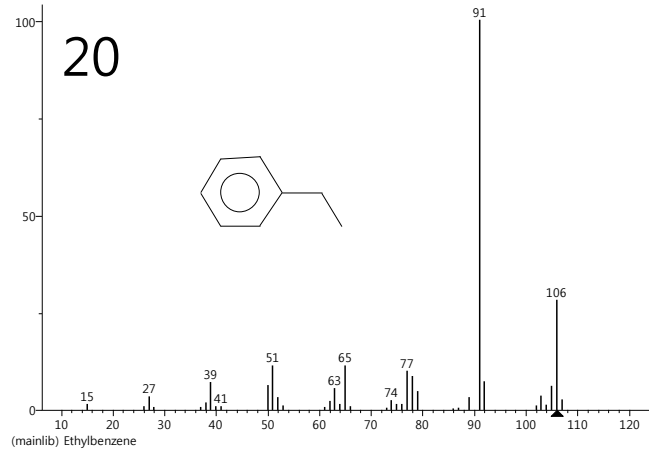
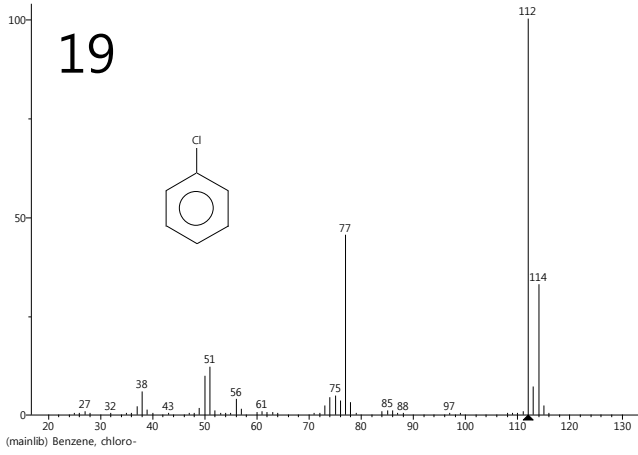
Analysis of VOCs in Drinking Water



Analysis of VOCs in Drinking Water



Analysis of VOCs in Drinking Water



Analysis of VOCs in Drinking Water

