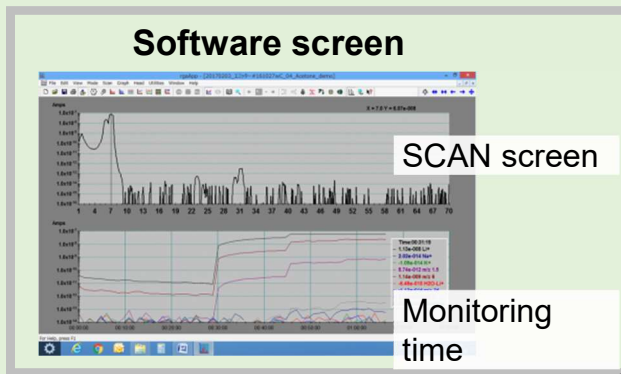


Portable Gas Analyzer



Monitoring PC

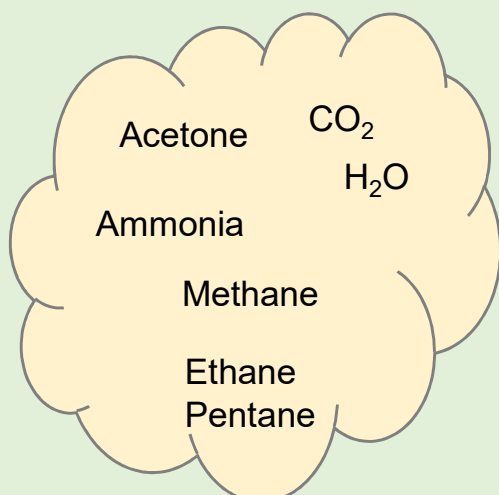


Portable gas analyzer

Newest Technology

- ✓ No need of sample preparation nor analytical column.
- ✓ Able to screen real-time and on-site.
- ✓ Not only gaseous but solid and liquid sample available.

Simultaneous measurement
of biomarkers



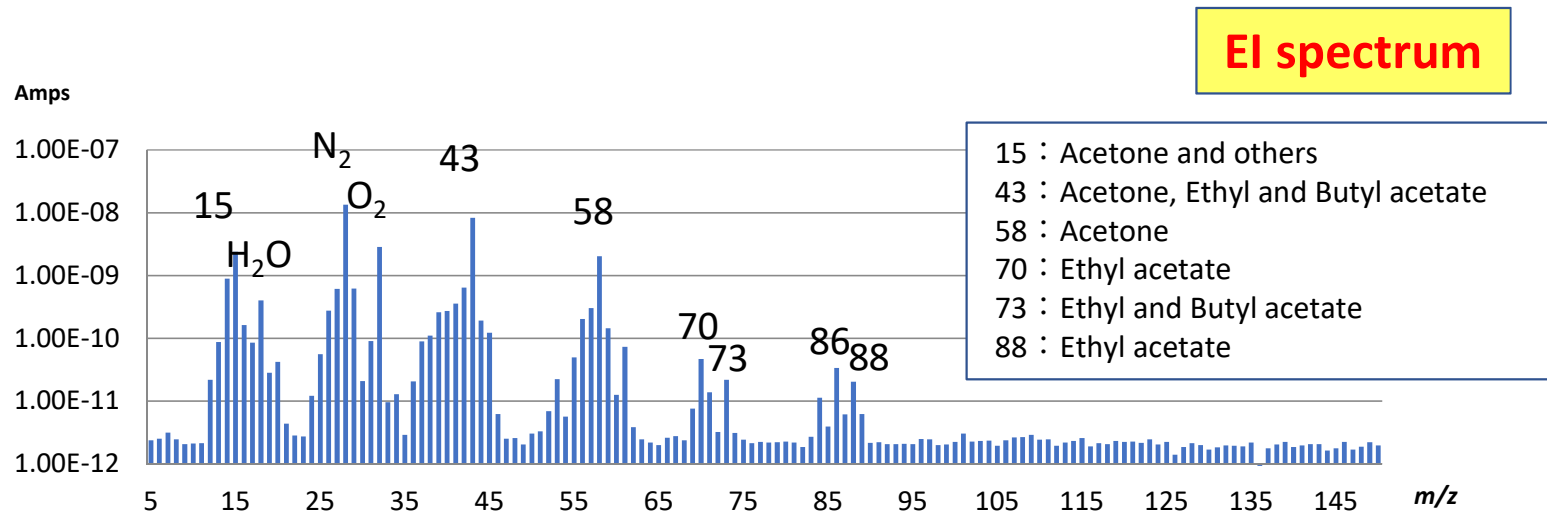
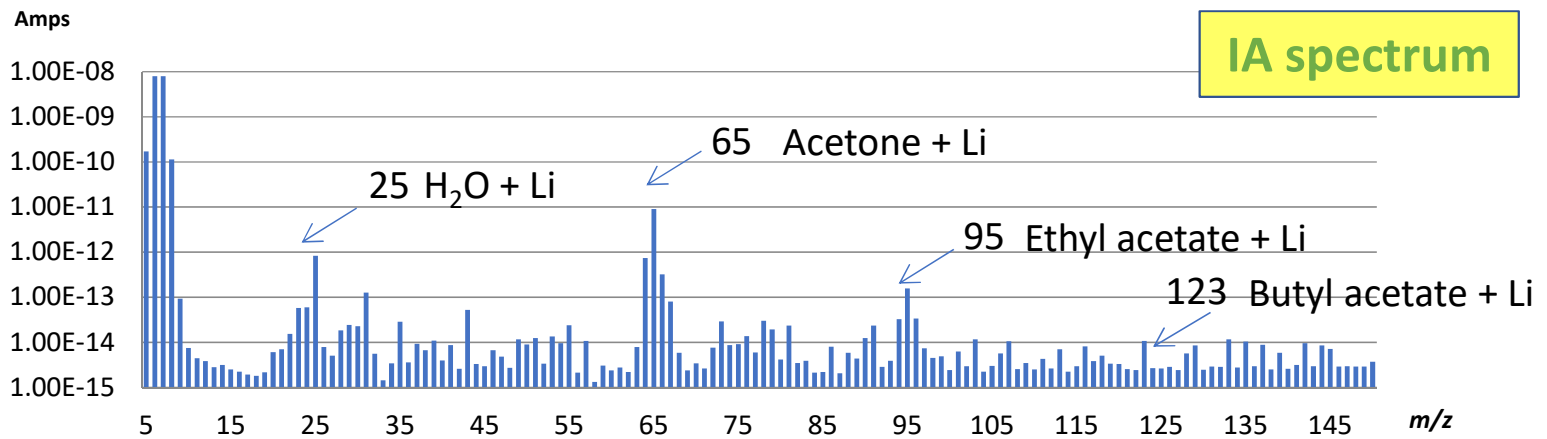
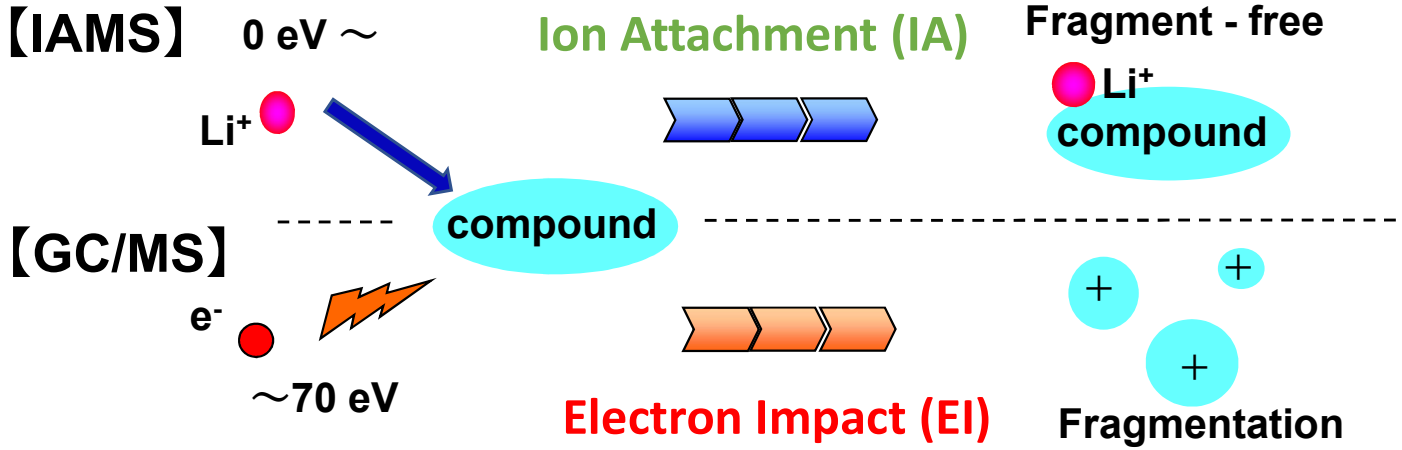
Determination limit of VOCs

		(v/v ppm)
Alkane	n-Pentane	0.11
	n-Hexane	0.040
	n-Nonane	0.028
Alkene	1-Hexylene	0.10
	1-Octene	0.032
Aldehyde	Acetaldehyde	0.042
	1-Butylaldehyde	0.043
Ketone	Acetone	0.017
	Methyl ethyl ketone	0.014
	Methyl n-pentyl ketone	0.014
Ether	Diethyl ether	0.0091
	Di-n-butyl ether	0.0049
Ester	Methyl formate	0.010
	Methyl acetate	0.0049
	Methyl propionate	0.022
	Ethyl acetate	0.0024
Aromatic	Benzene	0.041
	Toluene	0.013
	Ethyl Benzene	0.033
	o-Xylene	0.024
	Monchlorobenzene	0.0032

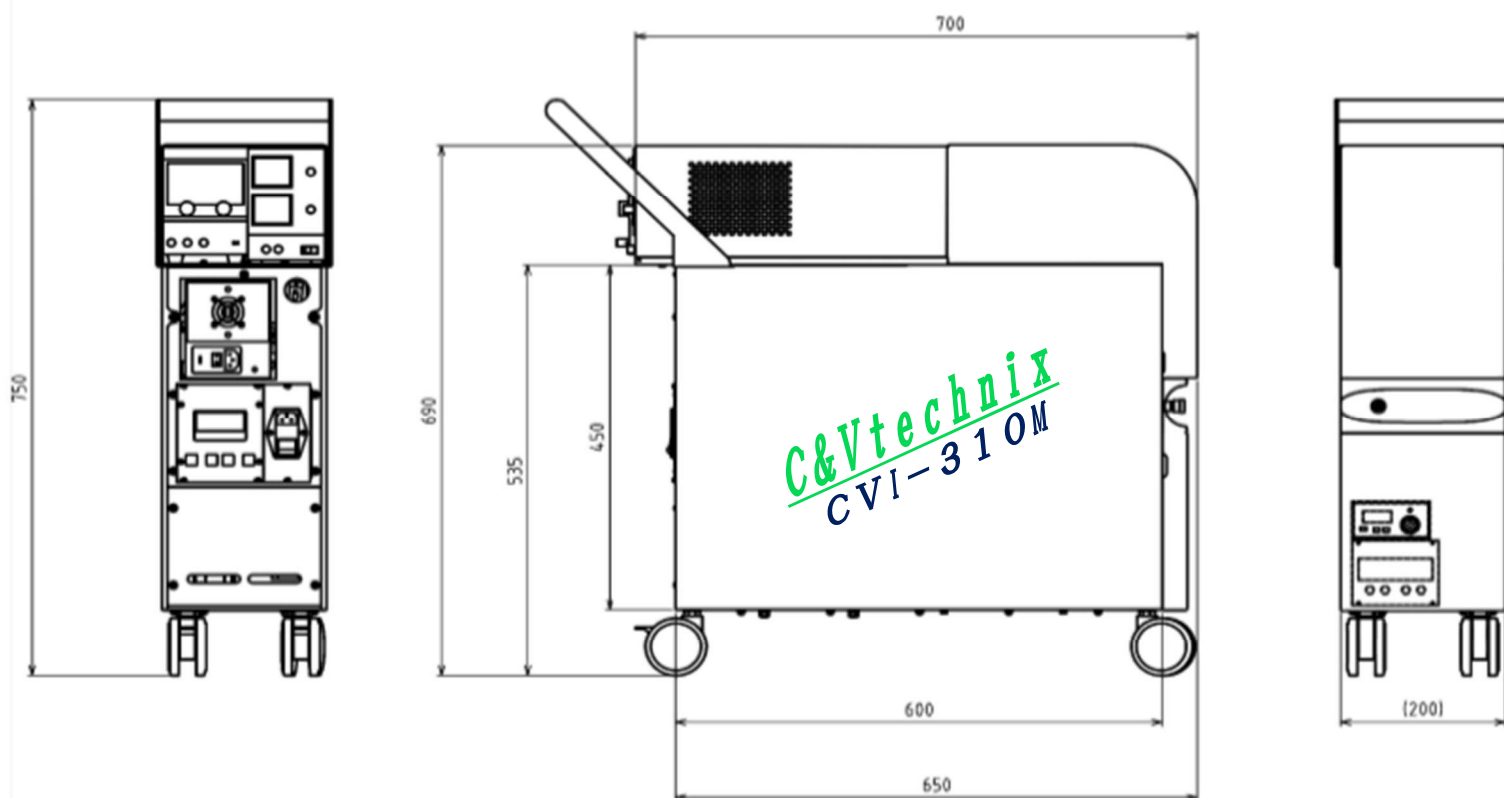
Expiration biomarker

- ✓ Ethane/Pentane : Oxidative stress
- ✓ Ammonia : Kidney failure, Helicobacter pylori infection
- ✓ Acetone : Type 1 diabetic patients
- ✓ Methane : Degradation of intestinal environment
- ✓ ^{13}CO : Helicobacter pylori infection

What is IAMS?



Portable Gas Analyzer



Using IAMS

IAMS: Ion Attachment Mass Spectrometry

- ✓ Soft ionization. No fragment occur, no need of carrier gas.
- ✓ Easy to determine. No need of MS expertise.

Application

- ✓ Real time expiration biomarker analysis
- ✓ Sick house chemical monitoring
- ✓ Food QC

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