

Photo Ion-Source for JMS-T200GC "AccuTOF GCx"

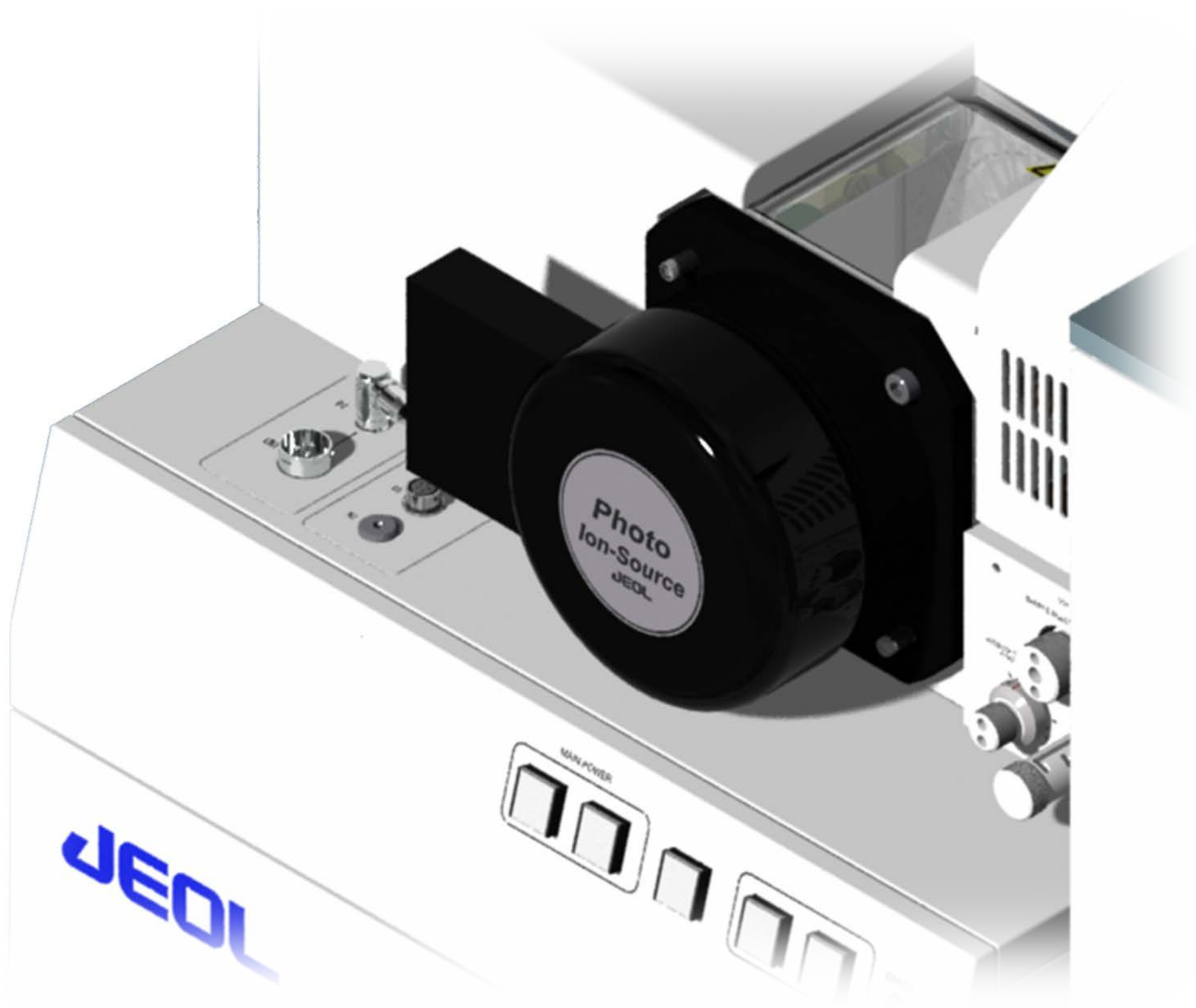
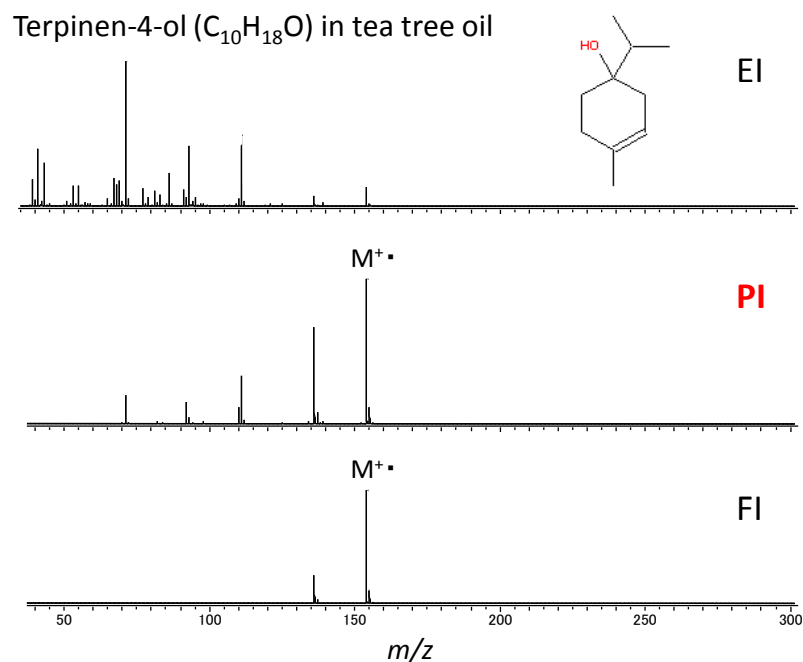


Photo Ion-Source

Molecular Ion and Characteristic Fragment Ions

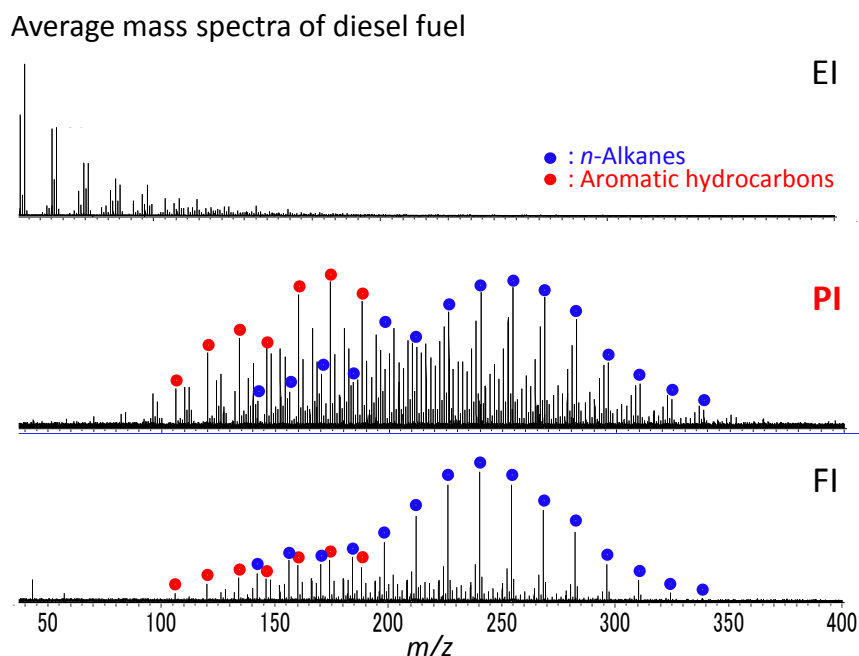
Since PI is a softer ionization method than EI, molecular ions can be easily distinguished using this technique. For some analytes, characteristic fragment ions may also be observed.



※EI: Electron Ionization, PI: Photo Ionization, FI: Field Ionization

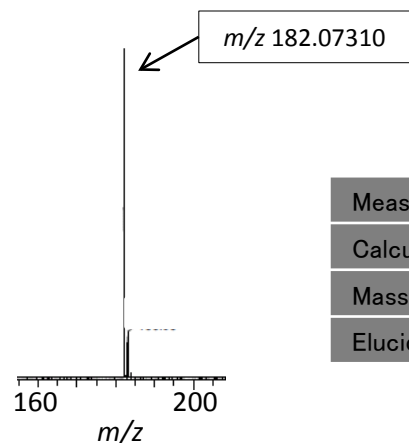
Preferential Ionization of Aromatic Compounds

Aromatic hydrocarbons, which strongly absorb UV light, are preferentially ionized with PI, making the technique useful for detecting aromatic hydrocarbons in a complex mixture.



Accurate Mass Measurement

Benzophenone ($C_{13}H_{10}O$)



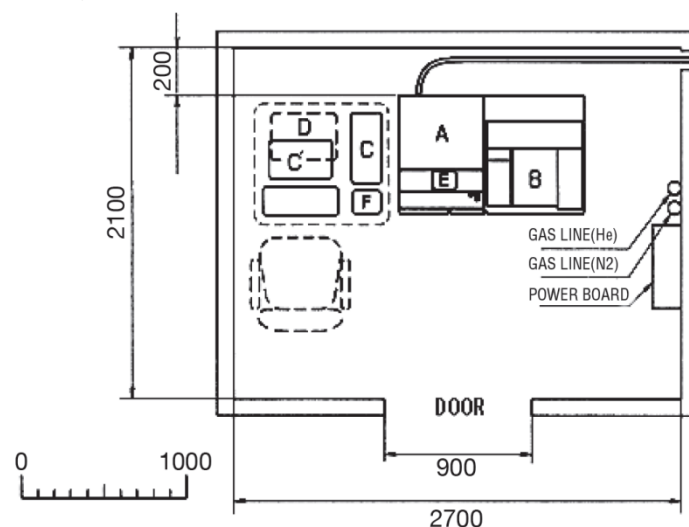
Measured Accurate Mass	182.07310
Calculated Exact Mass	182.07262
Mass error [mDa]	0.48
Elucidated Composition	$C_{13}H_{10}O$

Configuration

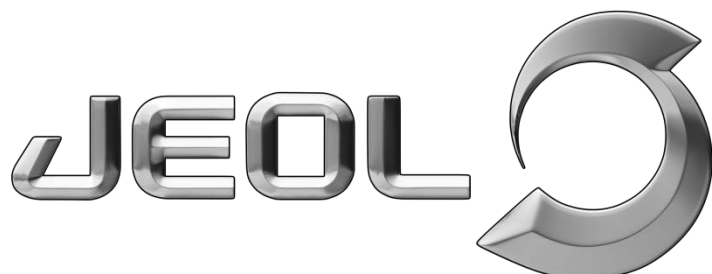
- Deuterium Lamp
- Power Supply for Deuterium Lamp
- Vacuum Flange for the Ion Source
- Storage Stand

※ Specifications subject to change without notice.

Standard Layout



	Item	W (mm)	D (mm)	H (mm)	Weight (kg)
A	Mass Spectrometer	1,172	724	1,224	340
B	Gas Chromatograph	582	513	488	49
C	Computer	168	450	456	15
C'	TFT LCD Monitor	443	220	555	9.2
D	Laser Printer	385	279	261	6
E	PI Ion Source	218	167	170	2.5
F	PI Ion Source Power Supply	117	200	90	1.8



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