

Specification Sheet

LCMS-2020

Liquid Chromatograph Mass Spectrometer

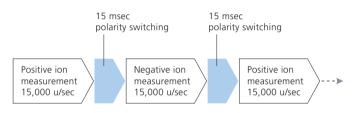


UFsensitivity

Ultra-fast analysis with excellent sensitivity Newly developed ion optical system and new Qarray provide excellent sensitivity, repeatability and linearity.

UFswitching and UFscanning

UFswitching and UFscanning functions make ultra-fast MS measurement possible.



Performance

Mass Range: *m/z* 10 to 2000

Resolution: R=2M
Max. Scan Speed: 15,000 u/sec
Polarity Switching Time: 15 msec
Max. Temperature of Desolvation Line: 300°C

Max. Temperature of Block Heater: 500°C (ESI, DUIS) / 300°C (APCI) Interface: ESI, APCI (Option), DUIS (Option)

Interface: ESI, APCI (Option), DUIS (Option), DUIS

0.05–2 mL/min (APCI) 0.05–1 mL/min (DUIS)

Sensitivity:

| Polarity | Positive | Negative |
|----------|---|---|
| ESI | S/N > 3500 RMS (S/N > 1400 peak-to-zero) | S/N > 150 RMS (S/N > 60 peak-to-zero) |
| | 10 pg reserpine | 20 pg <i>p</i> -nitrophenol |
| APCI | S/N > 1000 RMS (S/N > 400 peak-to-zero) | S/N > 250 RMS (S/N > 100 peak-to-zero) |
| | 10 pg reserpine | 20 pg <i>p</i> -nitrophenol |
| DUIS | S/N > 1500 RMS (S/N > 600 peak-to-zero) | S/N > 50 RMS (S/N > 20 peak-to-zero) |
| | 10 pg papaverine | 20 pg <i>p</i> -nitrophenol |
| | S/N > 500 RMS (S/N > 200 peak-to-zero) | |
| | 10 ng acetophenone | |

Software

[LabSolutions LCMS Ver.6]

Operating System: Compatible with Windows 7 Professional / Window 10 Pro

Integrated control of the UHPLC Nexera™, HPLC (Shimadzu Prominence Series and LC-2010/2030/2040), Instrument Control:

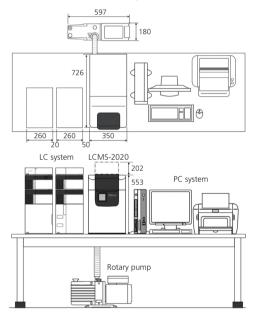
LCMS-2020 MS unit, and interface

Multi-Sequence Mode Function: Simultaneous data collection with a maximum 64 methods, such as scan, SIM, profile, positive ion, negative

ion, CID switching

Autotuning: Sensitivity and resolution optimized for both positive-ion and negative-ion modes

Installation Example



18°C to 28°C Temperature:

Humidity: 40% to 70% (no condensation)

Size: 350 mm (W) \times 726 mm (D) \times 553 mm (H)

Weight: 77.5 kg (MS unit)

Power supply: MS unit: 200/230 V AC, 10 A (50/60 Hz),

single-phase

PC unit: 100/120/220 V AC (50/60 Hz)

LC unit: 100/120/220 V AC (current capacity varies with system

configuration)

Gas: Nitrogen gas,

consumption rate max. 21.5 L/minute

Size and weight of PC / Printer vary according to models. Appearance and Specifications are subject to change without notation of modification.

The above are not standard installation specification. All LCMS-2020 instruments will be installed and tested in accordance with standard performance tests as detailed in the Shimadzu document ZEAH-0440, Shimadzu High-Performance Liquid Chromatograph Mass Spectrometer LCMS-2020 Installation Standard.



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