

One Module, Five Modes. Meet The Next-Gen Injection For Nexis GC-2060



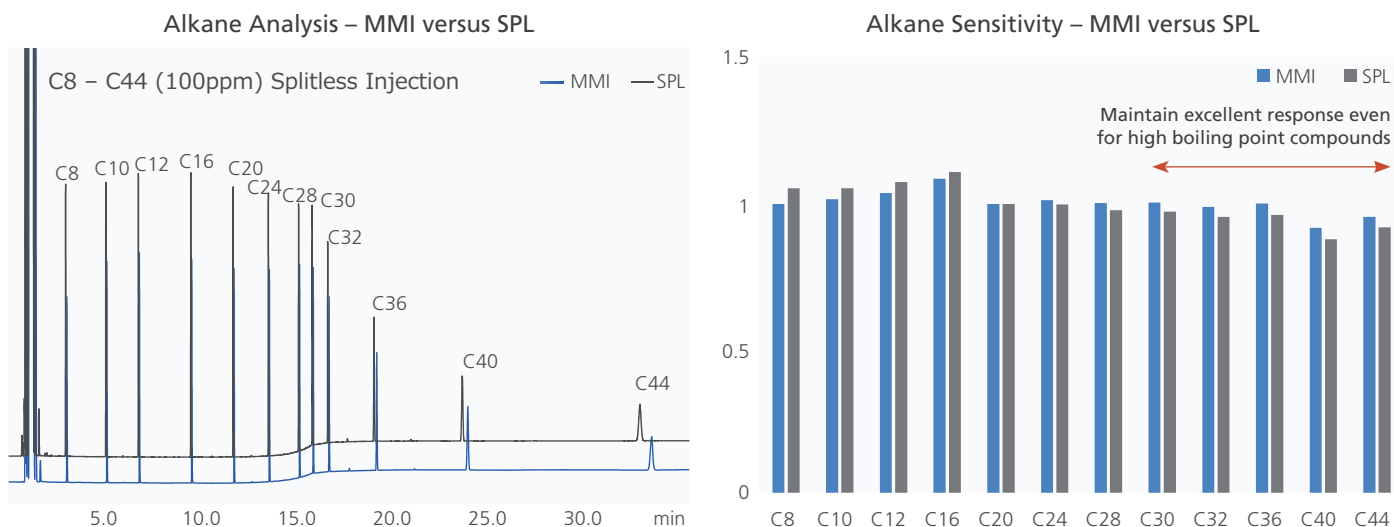
Multi-Mode Injection Unit/Inlet (MMI): Ultimate Flexibility, Minimal Complexity

The MMI is a next-generation inlet that packs 5 distinct injection techniques into a single module. Transition seamlessly between modes via software to match your sample type, concentration, and analytical goals—Consolidating workflows that previously required multiple hardware units. Shimadzu's MMI can replicate stand-alone SPL injection conditions, enabling users to preserve existing methods while maximizing instrument uptime, accelerating throughput, and lowering overall operational costs.

Injection Modes		Key Features
	Split / Splitless Injection SPL	- Instantly vaporizes samples in a heated chamber and transfers them to the column under split or splitless conditions. - Proprietary insulation design ensures thermal stability and data compatibility with stand-alone SPL inlets. Easily transfers existing methods. - Reduce inlet maintenance(liner replacement, column cut) downtime from 40min to 5min by faster cooling capability.
	Programmed Temperature Vaporization Injection PTV	- Vaporizes samples in a cooled chamber via programmed heating and transfers them to the column under split or splitless conditions. - Reduces syringe-needle discrimination and decomposition of thermally labile compounds.
	Large Volume Injection LVI	- Concentrates analytes by selectively venting solvent, then vaporizes and transfers them to the column. - Eliminates time-consuming offline concentration steps and reduces solvent consumption. - Significantly boosts sensitivity for trace-level detection.
	Direct Injection (Simple OCI) Direct	- Vaporizes samples in a cooled chamber via programmed heating and transfers them directly to the column using a special column-fit liner. - Minimizes sample discrimination and maximizes recovery, offering OCI-like performance with easier operation.
	Thermal Desorption/Extraction Manual TD	- Desorbs volatiles from samples or adsorbents via rapid heating and transfers them to the column. - Fast heating (up to 1200°C/min) achieves peak shapes and accuracy comparable to dedicated TD autosamplers. - Enables quick spot VOC, material-emission, and odor screening with minimal sample preparation.
	Universal	- Provides a software user-interface for easy method transfer from Shimadzu and other vendor's GC systems. - Allows flexible, advanced parameter settings not available in other modes.

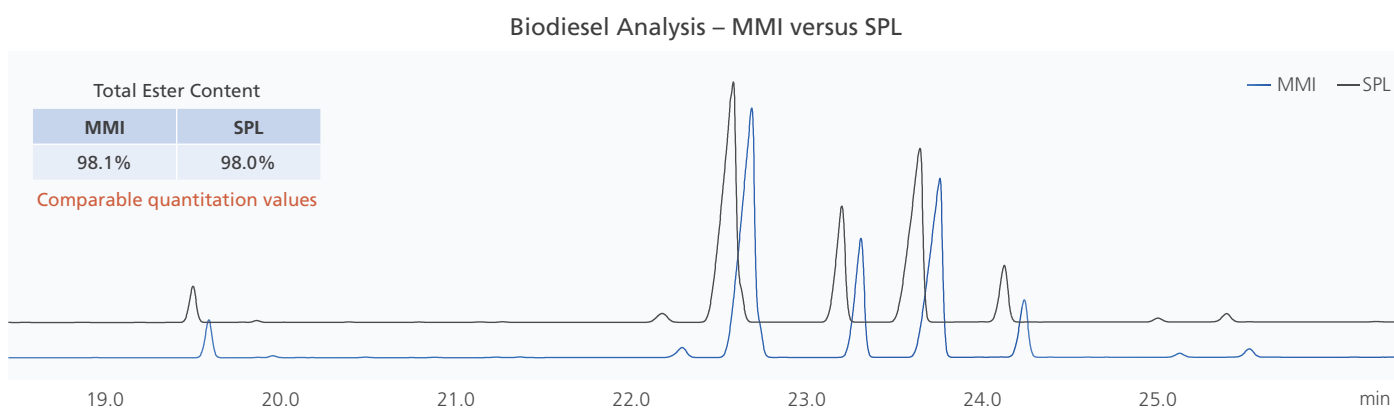
High Performance Comparable To A Standalone SPL System

Testing with a standard alkane mix (C8–C44) confirms excellent comparability between standalone SPL and MMI. Overlaid chromatograms demonstrate that the MMI maintains equivalent sensitivity even for **high boiling point compounds (C30+)**, showcasing seamless method transfer and reliable results across a wide range of analytes.



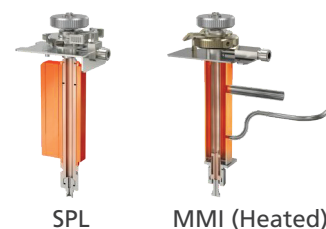
Seamless Method Transfer & Compliance With EN 14103 FAME Quantitation

EN 14103 testing demonstrates that the MMI delivers quantitative results fully equivalent to a standalone SPL injector, ensuring high method compatibility. Labs can migrate from SPL to MMI with total confidence, retaining regulatory-grade quantitation while reducing the inlet maintenance downtime and unlocking the enhanced operational flexibility of a multi-mode inlet.



Engineered For Excellence: What Drives MMI's Uncompromised Performance?

Shimadzu's proprietary insulation ensures uniform internal temperature distribution within the MMI, hence preserving SPL-equivalent vaporization behavior. This design delivers superior thermal stability and rapid heating/cooling — boosting lab efficiency while maintaining compatibility with existing methods.



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