



# Agilent 5975C TAD Series GC/MSD System Data Sheet



## GC/MSD

The Agilent 5975C TAD Series Gas Chromatograph/Mass Selective Detector System offers high performance and flexibility with many options. The Mass Selective Detector can be combined with either the high-performance Agilent 7890A GC or the compact Agilent 6850 GC. Agilent 7693 Auto Liquid Sampler and other various GC samplers are available.

The MSD Productivity ChemStation software provides an extensive set of tools for all laboratories.

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### Mass Selective Detector

Mode (standard)	EI
Modes (optional)	PCI, NCI, and EI acquisition with CI source
EI ion source type	Noncoated inert EI source
Ion source temperature	150–350 °C
Quadrupole temperature	106–200 °C
Mass filter	Monolithic hyperbolic quadrupole
Minimum mass	1.6 u
Maximum mass	1050 u
Mass axis stability	Better than 0.10 u/48 h
Detector	Triple-Axis Detector with long life EM

### Gas Chromatograph

Gas chromatograph	Agilent 7890A, 6850, or 6890GC Systems
Autosampler	Agilent 7693, 7683, G2880A (6850 GC only) CombiPAL, 7697 or G1888A and so forth
Oven temperature	Ambient +4 – 450 °C (6890 and 7890A GC) Ambient +5 – 350 °C (6850)
Oven ramps/plateaus	6/7 for 6850 and 6890 20/21 for 7890A GC with negative ramps allowed
Retention-time locking	RTL-ready



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## Data System

Software	Agilent MSD Productivity ChemStation MassHunter software for data analysis (optional)
Simultaneous MS and GC	Four signals of GC detector data and up to two MS (SIM scan) data acquisitions
SIM/Scan	Automated SIM setup and synchronous SIM/scan operation
Application autotunes	One-click autotune for BFB, DFTPP
Spectral libraries (optional)	NIST, Wiley/NIST, Pfleger-Mauer Drug, Stan Pesticide
Spectral DRS and RTL	Pesticides and endocrine disrupter databases (optional), volatiles, PCBs, toxicology, hazardous chemicals, indoor air toxics, Japan Positive List, forensic toxicology, environment semi-volatiles. Solvents Flv and user contributed libraries
21CFR11 Compliance	Optional G1732BA MSD Security ChemStation available
Multivariate analysis	Optional Mass Profiler Professional available

## Installation Checkout Specifications

El scan S/N	<b>600:1</b> S/N for turbo molecular pump system and <b>200:1</b> S/N for diffusion pump system will be given by 1- $\mu$ L injection of 1-pg/ $\mu$ L (100:1 for 6850/5975C bundle) OFN <sup>1</sup> standard scanning from 50 to 300 u at nominal 272 u ion.
PCI scan S/N (Methane)	<b>125:1</b> S/N will be given by 1- $\mu$ L injection of 100-pg/ $\mu$ L BZP <sup>2</sup> standard scanning from 80 to 230 u at nominal 183 u ion.
NCI scan S/N (Methane)	<b>600:1</b> S/N will be given by 2- $\mu$ L injection of 100 fg/ $\mu$ L OFN standard scanning from 50 to 300 u at nominal 272 u ion

## Physical Requirements with the Agilent 7890A or 6850 GC

Dimensions (GC/MS)	88 cm (w), 60 cm (w) for 6850 $\times$ 56 cm (d) $\times$ 50 cm (h) Additional space should be added for the auto injector, sample tray, data system and printer.
Weight (GC/MS)	81 to 96 kg (depending on configuration)

<sup>1</sup>Octafluoronaphthalene

<sup>2</sup>Benzophenone

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See the 5975 page at <http://www.chem.agilent.com/Scripts/PDS.asp?IPage=34426> for further information and typical product testing videos.

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