



**ENTECH**  
INSTRUMENTS

*See What's Really There™*



# 7200A

**ACCELERATED  
PRECONCENTRATOR**

***High-Throughput GC-MS Volatiles Preconcentration***

## Meeting the Demands of the New Global Volatiles Market

With extreme air pollution events on the rise and more conclusive epidemiological data linking ambient VOC exposure to disease, global efforts to reduce pollution and its effects on health are driving aggressive testing and containment policies across developed and developing nations. Increasing government intervention will see demand for testing services across all categories of pollution monitoring rise dramatically, and over the next decade laboratories will be under pressure to increase their analytical throughput. The Entech 7200A Accelerated, Fast GCMS Canister Preconcentrator was specifically designed to meet the need for higher laboratory throughput, drawing on over 3 decades of preconcentrator optimization through Entech's delivery and support of thousands of canister preconcentration systems world-wide. All of this feedback and innovation has resulted in the fastest and most comprehensive volatiles preconcentrator on the planet, bar none.












## EFIT - Time is On Your Side with the 7200A

With EFIT (Extremely Fast Injection Technology), the sample is deposited on the column in less than 1 second, producing 1.4 - 2 second wide peaks that both reduce the required resolving power of the column while increasing centroid signal intensity. The entire suite of TO-15A compounds typically elutes within 8-9 minutes, with equal or greater separation than with prior technology simply because peak widths are under 2 seconds rather than being 5-7 seconds wide. The 7200A with EFIT creates a whole new standard of productivity for laboratories needing to optimize their sample throughput.

Doubling your throughput is like someone giving you a free GC-MS, as well as another free preconcentrator, since one system can generate the data of 2 systems. Would you spend another \$2-3 in LN2 to allow you to run another sample without the space or cost of another GCMS? Whether you are a contract lab or an agency needing to improve efficiency, faster throughput simply makes good sense.



## Features of the Fast GC-MS 7200A LN2 3-Stage Preconcentrator

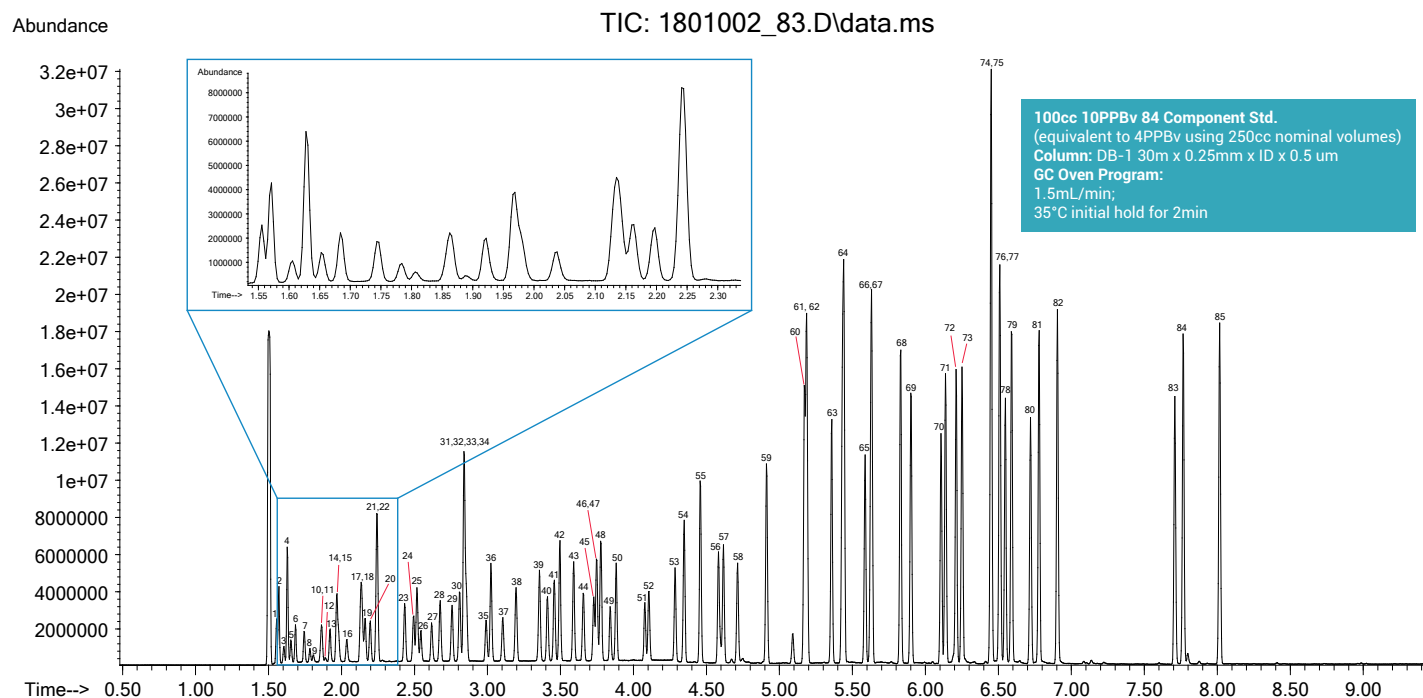
|   |  |
|---|--|
|  <p><b>Extremely Fast Injection Technology (EFIT)</b><br/><i>Extremely Fast Injection Technology (EFIT) that reduces bandwidth to 1 second or less on column.</i></p>        |  <p><b>Superior Water Management (3-5x better than 7200)</b> reduces impact on GCMS, and prevents MS signal loss even when doubling the number of injections per hour, per day.</p> |
|  <p><b>Much shorter run times and cycle times = Higher Productivity</b><br/><i>Cycle times injection to injection as short at 20-25 minutes for a 250mL sample size.</i></p> |  <p><b>Less column bleed</b> resulting in better baselines and fewer source cleanings</p>   |
|  <p><b>Complete elution of TO15 compounds in under 10 minutes, with column bakeout done in just 2-3 additional minutes</b></p>   |  <p><b>Advanced software</b> that improves the user experience</p>  |
|  <p><b>Up to 30% reduction in LN2 consumption</b> as compared to prior Entech preconcentrators (7100A, 7200)</p>   |  <p><b>Better Autosampler Options:</b><br/>- 7016D Classic 6L Canister 16-Position</p>  |
|  <p><b>Lower carryover</b> by optimizing Silonite coated flowpath temperatures and M3 bakeout timing</p>   | <p><b>Autosampler</b><br/>- 7650-M for soil gas analysis and screening<br/>- New SkyCan Rail Autosampler high productivity ambient or source level canister analysis</p>   |

| Features & Capabilities                    |                                      |
|--|--------------------------------------|
| Accelerated Analysis                       | ✓                                    |
| Microscale Purge & Trap                    | ✓                                    |
| Extended Cold Trap Dehydration             | ✓                                    |
| Automated Standards Addition               | ✓                                    |
| High CO <sub>2</sub> Samples               | ✓                                    |
| Accu-Sample Technology                     | ✓                                    |
| Digital Valve Isolation                    | ✓                                    |
| Loop Injection Valve                       | Yes - Included (0.5-2cc) 1cc Typical |
| Pressure/Vacuum Leak Test Prior to Opening | ✓                                    |
| Built-In Sample Ports                      | 4                                    |
| Direct Volume Measurement (no MFCs)        | ✓                                    |

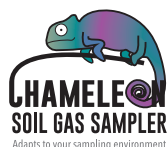
| Description  | Unit | Part #       |
|--|------|--------------|
| <b>7200A Preconcentrators</b>  |      |              |
| 7200A Accelerated VOC Preconcentrator (includes loop valve) 120VAC/60Hz                              | EA   | 7200A-01     |
| 7200A Accelerated VOC Preconcentrator (includes loop valve) 240VAC/50Hz                              | EA   | 7200A-01-HV  |
| 7200A Accelerated VOC Preconcentrator w/ Silonite Coated Flow Path (includes loop valve) 120VAC/60Hz | EA   | 7200A-01S    |
| 7200A Accelerated VOC Preconcentrator w/ Silonite Coated Flow Path (includes loop valve) 240VAC/50Hz | EA   | 7200A-01S-HV |



## 7200Accelerated and Agilent GC-MS, 7890B/5977A



- |  |                                |                                  |                               |
|--|--------------------------------|----------------------------------|-------------------------------|
| 1. Propene                                       | 23. trans-1,2-Dichloroethene   | 45. Bromodichloromethane         | 67. 1,1,1,2-Tetrachloroethane |
| 2. Dichloro difluorobenzene                      | 24. 1,1-Dichloroethane         | 46. 1,4-Dioxane                  | 68. O-Xylene                  |
| 3. Chloromethane                                 | 25. Methyl tert-butyl ether    | 47. Trichloroethylene            | 69. 4-Bromofluorobenzene      |
| 4. 1,2 - Dichloro - 1,1,2,2 - tetrafluorobenzene | 26. Vinyl acetate              | 48. 2,2,4-Trimethylpentane       | 70. Cumene                    |
| 5. Vinyl chloride                                | 27. 2-Butanone                 | 49. Methyl methacrylate          | 71. O-Chlorotoluene           |
| 6. 1,3-Butadiene                                 | 28. 2-Chloroprene              | 50. Heptane                      | 72. n-Propylbenzene           |
| 7. Bromomethane                                  | 29. CIS- 1,2-Dichloroethene    | 51. CIS-1,3-Dichloropropene      | 73. 4-Ethyltoluene            |
| 8. Chloroethane                                  | 30. Bromochloromethane (ISTD)  | 52. 4-Methyl-2-pentanone         | 74. 1,3,5-Trimethylbenzene    |
| 9. Ethanol                                       | 31. Hexane                     | 53. trans-1,3-Dichloropropene    | 75. tert-Butylbenzene         |
| 10. Acetonitrile                                 | 32. Diisopropyl ether          | 54. 1,1,2-Trichloroethane        | 76. 1,2,4-Trimethylbenzene    |
| 11. Bromoethene                                  | 33. Chloro form                | 55. Toluene                      | 77. Benzyl Chloride           |
| 12. Acrolein                                     | 34. Ethyl acetate              | 56. 2-Hexanone                   | 78. 1,3-Dichlorobenzene       |
| 13. Acetone                                      | 35. Tetrahydrofuran            | 57. Dibromochloromethane         | 79. 1,4-Dichlorobenzene       |
| 14. Trichlorofluoromethane                       | 36. Ethyl tert-butyl ether     | 58. 1,2-Dibromoethane            | 80. Sec-butylbenzene          |
| 15. Isopropyl alcohol                            | 37. 1,2-Dichloroethane         | 59. Tetrachloroethylene          | 81. 1,2-Dichlorobenzene       |
| 16. Acrylonitrile                                | 38. 1,1,1-Trichloroethane      | 60. 1,2-Chlorobenzene -d5 (ISTD) | 82. O-Cymene                  |
| 17. 1,1-Dichloroethene                           | 39. Benzene                    | 61. 1,1,1,2-Tetrachloroethane    | 83. n-Butylbenzene            |
| 18. tert-Butanol                                 | 40. Carbon tetrachloride       | 62. Chlorobenzene                | 84. 1,2,4-Trichlorobenzene    |
| 19. Methylene Chloride                           | 41. Cyclohexane                | 63. Ethylbenzene                 | 85. Naphthalene               |
| 20. Allyl Chloride                               | 42. 1,4-Difluorobenzene (ISTD) | 64. m,p-Xylenes                  | 86. Hexachlorobutadiene       |
| 21. Trichlorotrifluoroethane                     | 43. Tert-amyl methyl ether     | 65. Bromoform                    |                               |
| 22. Carbon Disulfide                             | 44. 1,2-Dichloropropene        | 66. Styrene                      |                               |



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## High-Throughput GC-MS Volatiles Preconcentration

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