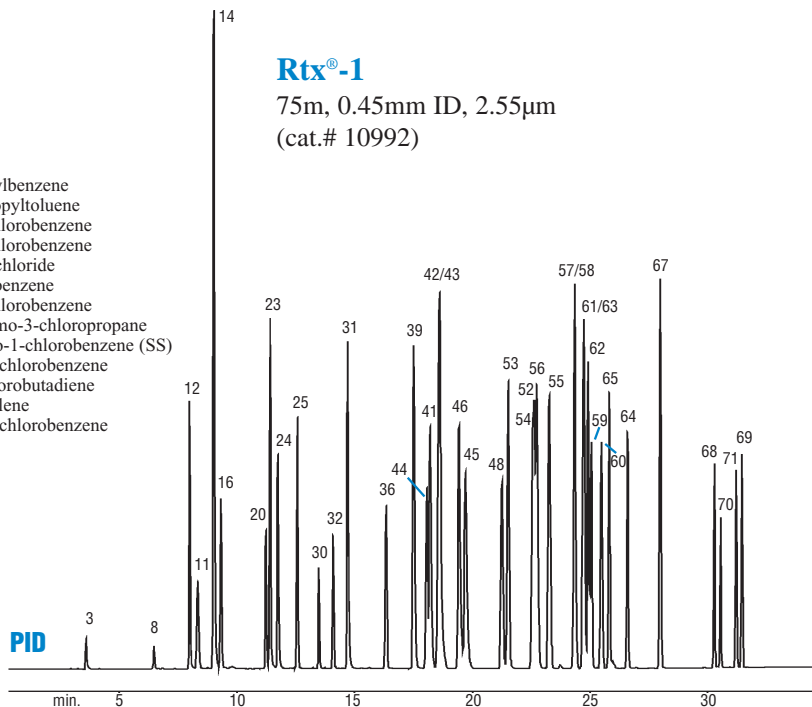
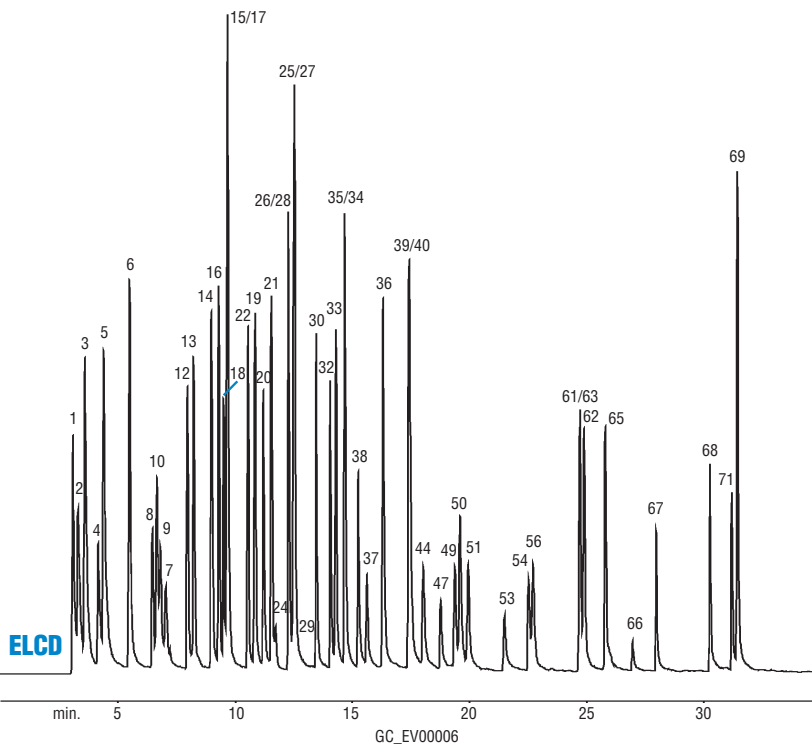


**Volatile Organics  
Confirmational Analysis  
EPA Method 502.2  
Rtx®-1**

- |                                       |                                  |
|---------------------------------------|----------------------------------|
| 1. dichlorodifluoromethane            | 59. <i>sec</i> -butylbenzene     |
| 2. chloromethane                      | 60. <i>p</i> -isopropyltoluene   |
| 3. vinyl chloride                     | 61. 1,3-dichlorobenzene          |
| 4. bromomethane                       | 62. 1,4-dichlorobenzene          |
| 5. chloroethane                       | 63. benzyl chloride              |
| 6. trichlorofluoromethane             | 64. <i>n</i> -butylbenzene       |
| 7. Freon® 113                         | 65. 1,2-dichlorobenzene          |
| 8. 1,1-dichloroethene                 | 66. 1,2-bromo-3-chloropropane    |
| 9. allyl chloride                     | 67. 4-bromo-1-chlorobenzene (SS) |
| 10. methylene chloride                | 68. 1,2,4-trichlorobenzene       |
| 11. methyl <i>tert</i> -butyl ether   | 69. hexachlorobutadiene          |
| 12. <i>trans</i> -1,2-dichloroethene  | 70. naphthalene                  |
| 13. 1,1-dichloroethane                | 71. 1,2,3-trichlorobenzene       |
| 14. chloropropene (40ppb)             |                                  |
| 15. 2,2-dichloropropane               |                                  |
| 16. <i>cis</i> -1,2-dichloroethene    |                                  |
| 17. chloroform                        |                                  |
| 18. bromochloromethane                |                                  |
| 19. 1,1,1-trichloroethane             |                                  |
| 20. 1,1-dichloropropene               |                                  |
| 21. carbon tetrachloride              |                                  |
| 22. 1,2-dichloroethane                |                                  |
| 23. benzene                           |                                  |
| 24. fluorobenzene (SS)                |                                  |
| 25. trichloroethene                   |                                  |
| 26. 1,2-dichloropropane               |                                  |
| 27. bromodichloromethane              |                                  |
| 28. dibromomethane                    |                                  |
| 29. 2-chloroethyl vinyl ether         |                                  |
| 30. <i>cis</i> -1,3-dichloropropene   |                                  |
| 31. toluene                           |                                  |
| 32. <i>trans</i> -1,3-dichloropropene |                                  |
| 33. 1,1,2-trichloroethane             |                                  |
| 34. 2-bromo-1-chloropropane (SS)      |                                  |
| 35. 1,3-dichloropropane               |                                  |
| 36. tetrachloroethene                 |                                  |
| 37. dibromochloromethane              |                                  |
| 38. 1,2-dibromoethane                 |                                  |
| 39. chlorobenzene                     |                                  |
| 40. 1,1,1,2-tetrachloroethane         |                                  |
| 41. ethyl benzene                     |                                  |
| 42. <i>m</i> -xylene                  |                                  |
| 43. <i>p</i> -xylene                  |                                  |
| 44. 1-chloro-2-fluorobenzene (SS)     |                                  |
| 45. <i>o</i> -xylene                  |                                  |
| 46. styrene                           |                                  |
| 47. bromoform                         |                                  |
| 48. isopropyl benzene                 |                                  |
| 49. 1,4-dichlorobutane (SS)           |                                  |
| 50. 1,1,2,2-tetrachloroethane         |                                  |
| 51. 1,2,3-trichloropropane            |                                  |
| 52. <i>n</i> -propylbenzene           |                                  |
| 53. bromobenzene                      |                                  |
| 54. 2-chlorotoluene                   |                                  |
| 55. 1,3,5-trimethylbenzene            |                                  |
| 56. 4-chlorotoluene                   |                                  |
| 57. <i>tert</i> -butylbenzene         |                                  |
| 58. 1,2,4-trimethylbenzene            |                                  |



**Rtx®-1**  
75m, 0.45mm ID, 2.55µm  
(cat.# 10992)



Acknowledgement: Finnigan 9001 GC, µGold Tandem Photoionization/HALL® 2000 Electrolytic Conductivity Detector provided courtesy of Thermo Finnigan GC & GC/MS Division, 2215 Grand Avenue Pkwy, Austin, Texas 78728

Column: 75m, 0.45mm ID, 2.55µm Rtx®-1 (cat.# 10992).  
Conc.: 20ppb in 5mL of RO water (unless otherwise noted, peak 14).  
Inj.: a combination of the following reference materials was used:  
502.2 Cal2000 MegaMix™ (cat.# 30431)  
502.2 Calibration Mix #1A (cat.# 30439)  
502.2 Internal Standard Mix #2 (cat.# 30041)  
1-chloro-2-fluorobenzene (cat.# 30040)  
4-bromochlorobenzene (cat.# 30230)  
2-chloroethyl vinyl ether (cat.# 30265)  
1,4-dichlorobutane (cat.# 30227)  
MTBE (cat.# 30402)  
and custom mixtures of Freon® 113, allyl chloride, chloroprene, and benzyl chloride.

Concentrator: Tekmar LSC-3000 purge and trap  
Trap: Vocarb™ 3000  
Purge: 11 min. @ 40mL/min.  
Dry purge: 1 min. @ 40mL/min. (MCS off)  
Desorb preheat: 245°C  
Desorb: 250°C for 2 min.  
Bake: 260°C for 8 min.

GC: Finnigan 9001  
Carrier gas: helium, 9mL/min. constant pressure  
Oven temp.: 35°C (hold 6 min.) to 115°C @ 11°C/min. (hold 7 min.) to 130°C @ 7°C/min. (no hold), to 220°C @ 9.2°C/min. (hold 4 min.)  
Detectors: µGold Tandem PID/HALL 2000  
PID: makeup 7mL/min., purge 7mL/min. set @ 0.35mV, base temp. 200°C  
Hall 2000: Rxn gas 25mL/min., Rxn temp. 940°C  
Propanol Flow 470µL/min.