

Volatile Organics
US EPA Method 502.2
Rtx®-502.2

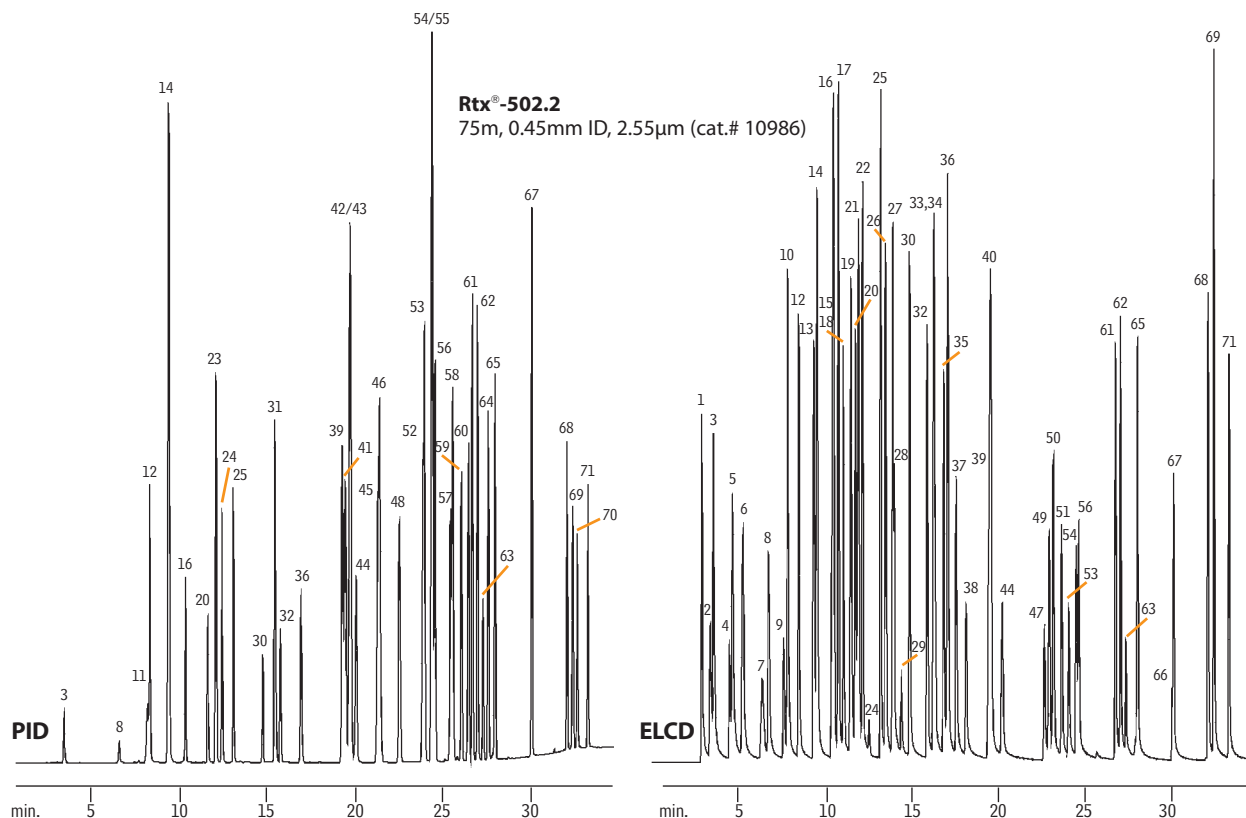
for **more info**

A confirmation analysis can be found on
www.restek.com/chromatograms

For EPA Method 601/602 chromatograms
www.restek.com/chromatograms

Search: chromatogram number
GC_EV00006

Search: chromatogram numbers
GC_EV00540 & GC_EV00420



GC_EV00005

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

Column: Rtx®-502.2, 75m, 0.45mm ID, 2.55µm (cat.# 10986).
 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.

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