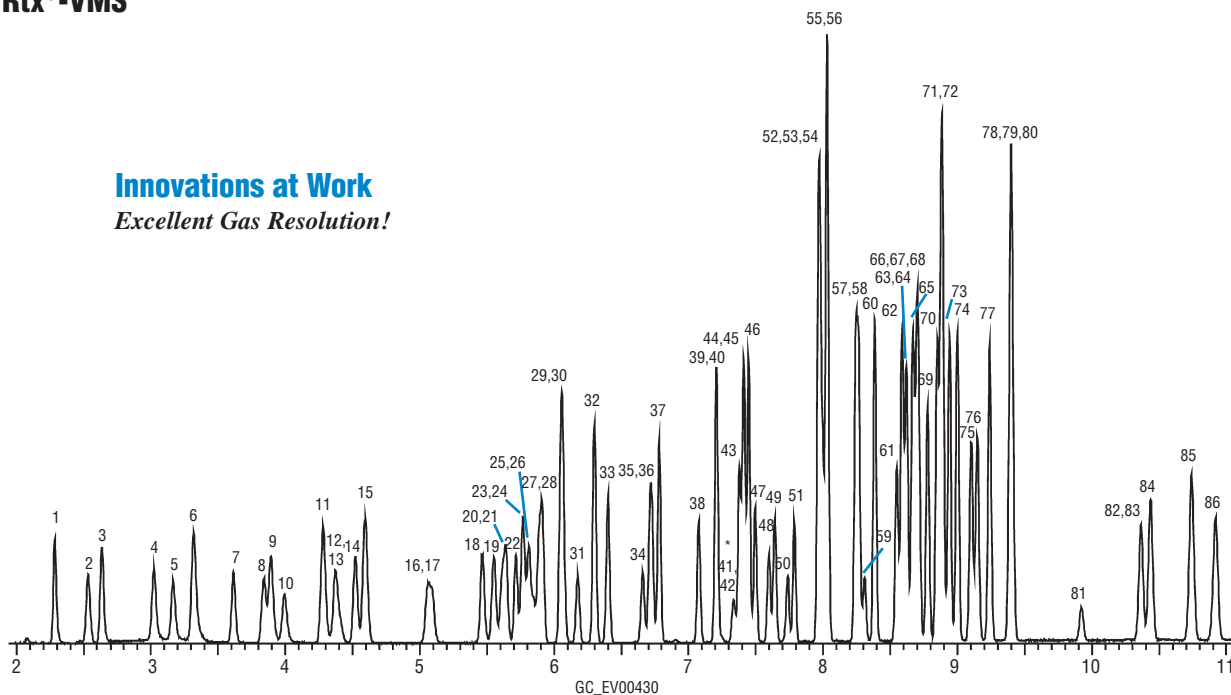


EPA Method 524.2, Revision 4 Rtx®-VMS

Innovations at Work
Excellent Gas Resolution!



30m, 0.25mm ID, 1.4µm Rtx®-VMS (cat.# 19915)
 Carrier gas: helium @ ~1.3mL/min. constant flow
 Adjust dichlorodifluoromethane to a retention time of 2.29 min. @ 45°
 Concentrator: Tekmar LSC-3000 Purge and Trap
 Oven temp.: 45°C (hold 2 min.) to 85°C @ 14°C/min. to 210°C @ 40°C/min. (hold 4 min.)
 GC: HP 6890 Series II
 Trap: Vocabr 3000
 Purge: 11 min. @ 40mL/min.
 Dry purge: 1 min. @ 40mL/min. (MCS bypassed)
 Desorb preheat: 245°C
 Desorb: 250°C for 2 min.
 Bake: 260°C for 8 min.
 Interface: 1:10 split in port
 Transfer line: 5m, 0.32mm ID Siltek™ tubing (cat.# 10027)
 Detector: HP 5973 MSD
 Scan range: 35-300amu

Standards:
 20ppb in 5mL of RO water (unless otherwise noted); ketones at 40ppb.
 502.2 Cal Mix #1 (cat.# 30042)
 502.2 Cal2000 MegaMix™ (cat.# 30431)
 524 Cal Mix 7A & 7B (cat.# 30202)
 524 Cal Mix #8 (cat.# 30203)
 524 IS/SS Mix (cat.# 30201)

1. dichlorodifluoromethane	23. carbon tetrachloride	45. <i>trans</i> -1,3-dichloropropene	67. 1,2,3-trichloropropane
2. chloromethane	24. tetrahydrofuran (40ppb)	46. ethyl methacrylate	68. <i>trans</i> -1,4-dichloro-2-butene
3. vinyl chloride	25. 1,1,1-trichloroethane	47. 1,1,2-trichloroethane	69. 4-chlorotoluene
4. bromomethane	26. 2-butanone	48. dibromochloromethane	70. <i>tert</i> -butylbenzene
5. chloroethane	27. 1,1-dichloropropene	49. 1,3-dichloropropane	71. 1,2,4-trimethylbenzene
6. trichlorofluoromethane	28. 1-chlorobutane	50. 1,2-dibromoethane	72. pentachloroethane
7. diethyl ether	29. benzene	51. 2-hexanone	73. <i>sec</i> -butylbenzene
8. 1,1-dichloroethane	30. propionitrile	52. ethylbenzene	74. <i>p</i> -isopropyltoluene
9. carbon disulfide (40ppb)	31. 1,2-dichloroethane	53. chlorobenzene	75. 1,3-dichlorobenzene
10. iodomethane (40ppb)	32. fluorobenzene	54. 1,1,1,2-tetrachloroethane	76. 1,4-dichlorobenzene
11. allyl chloride	33. trichloroethene	55. <i>m</i> -xylene	77. <i>n</i> -butylbenzene
12. methylene chloride	34. dibromomethane	56. <i>p</i> -xylene	78. hexachloroethane
13. acetone	35. 1,2-dichloropropane	57. <i>o</i> -xylene	79. 1,2-dichlorobenzene-d4
14. <i>trans</i> -1,2-dichloroethane	36. bromodichloromethane	58. styrene	80. 1,2-dichlorobenzene
15. methyl <i>tert</i> -butyl ether	37. methyl methacrylate	59. bromoform	81. 1,2-dibromo-3-chloropropane
16. 1,1-dichloroethane	38. <i>cis</i> -1,3-dichloropropene	60. isopropylbenzene	82. nitrobenzene
17. acrylonitrile	39. toluene	61. 4-bromofluorobenzene	83. hexachlorobutadiene
18. <i>cis</i> -1,2-dichloroethane	40. chloroacetonitrile	62. <i>n</i> -propylbenzene	84. 1,2,4-trichlorobenzene
19. 2,2-dichloropropane	41. 2-nitropropane*	63. bromobenzene	85. naphthalene
20. bromochloromethane	42. 1,1-dichloropropanone*	64. 1,1,2,2-tetrachloroethane	86. 1,2,3-trichlorobenzene
21. chloroform	43. 4-methyl-2-pentanone	65. 1,3,5-trimethylbenzene	
22. methyl acrylate	44. tetrachloroethene	66. 2-chlorotoluene	

*These peaks (41 and 42) share a quantitation ion (43)