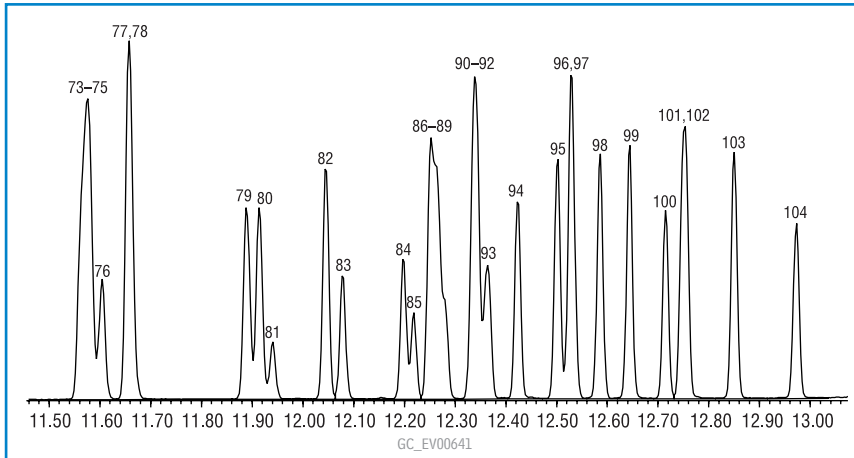


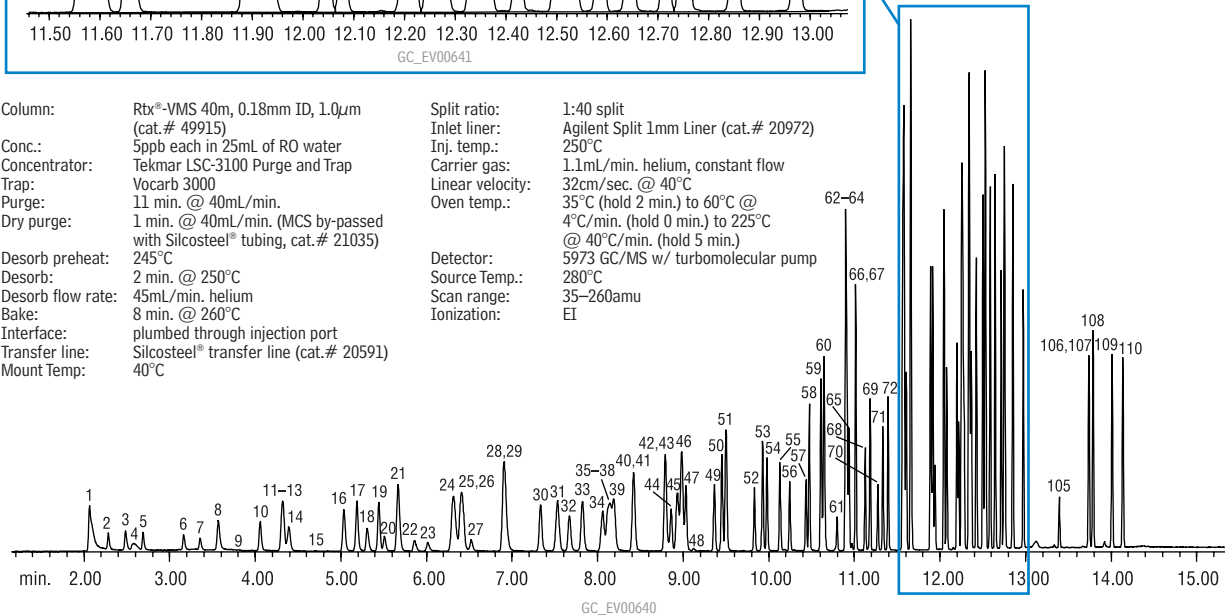
Volatile Organics
US EPA Method 8260B
Rtx[®]-VMS



Reference Standard	cat.#
8260B Calibration Mix #1*	30475
502.2 Calibration Mix #1 (gases)	30042
VOA Calibration Mix #1 (ketones)	30006
8260 Internal Standard Mix	30074
8260 Surrogate Mix	30073
8260 Acetate Mix	30489
California Oxygenates Mix	30465
Acrolein Mix	30478
Ethanol Mix	30466
Freon [®] 114	30476

Column: Rtx[®]-VMS 40m, 0.18mm ID, 1.0 μ m (cat.# 49915)
 Conc.: 5ppb each in 25mL of RO water
 Concentrator: Tekmar LSC-3100 Purge and Trap
 Trap: Vocab 3000
 Purge: 11 min. @ 40mL/min.
 Dry purge: 1 min. @ 40mL/min. (MCS by-passed with Silcosteel[®] tubing, cat.# 21035)
 Desorb preheat: 245 $^{\circ}$ C
 Desorb: 2 min. @ 250 $^{\circ}$ C
 Desorb flow rate: 45mL/min. helium
 Bake: 8 min. @ 260 $^{\circ}$ C
 Interface: plumbed through injection port
 Transfer line: Silcosteel[®] transfer line (cat.# 20591)
 Mount Temp: 40 $^{\circ}$ C

Split ratio: 1:40 split
 Inlet liner: Agilent Split 1mm Liner (cat.# 20972)
 Inj. temp.: 250 $^{\circ}$ C
 Carrier gas: 1.1mL/min. helium, constant flow
 Linear velocity: 32cm/sec. @ 40 $^{\circ}$ C
 Oven temp.: 35 $^{\circ}$ C (hold 2 min.) to 60 $^{\circ}$ C @ 4 $^{\circ}$ C/min. (hold 0 min.) to 225 $^{\circ}$ C @ 40 $^{\circ}$ C/min. (hold 5 min.)
 Detector: 5973 GC/MSC w/ turbomolecular pump
 Source Temp.: 280 $^{\circ}$ C
 Scan range: 35–260amu
 Ionization: EI



1. carbon dioxide	24. diisopropyl ether	47. 1,2-dichloroethane	70. 1,2-dibromoethane	93. <i>trans</i> -1,4-dichloro-2-butene
2. dichlorodifluoromethane	25. chloroprene	48. isobutyl alcohol	71. <i>n</i> -butyl acetate	94. 4-chlorotoluene
3. Freon [®] 114	26. 1,1-dichloroethane	49. isopropyl acetate	72. 2-hexanone	95. <i>tert</i> -butylbenzene
4. chloromethane	27. acrylonitrile	50. trichloroethene	73. chlorobenzene-d5	96. pentachloroethane
5. vinyl chloride	28. vinyl acetate**	51. 1,4-difluorobenzene	74. chlorobenzene	97. 1,2,4-trimethylbenzene
6. bromomethane	29. ethyl- <i>tert</i> -butyl ether**	52. dibromomethane	75. ethylbenzene	98. <i>sec</i> -butylbenzene
7. chloroethane	30. <i>cis</i> -1,2-dichloroethene	53. 1,2-dichloropropane	76. 1,1,1,2-tetrachloroethane	99. <i>p</i> -isopropyltoluene
8. trichlorofluoromethane	31. 2,2-dichloropropane	54. bromodichloromethane	77. <i>m</i> -xylene	100. 1,3-dichlorobenzene
9. ethanol	32. bromochloromethane	55. methyl methacrylate	78. <i>p</i> -xylene	101. 1,4-dichlorobenzene-d4
10. diethyl ether	33. chloroform	56. <i>n</i> -propyl acetate	79. <i>o</i> -xylene	102. 1,4-dichlorobenzene
11. 1,1-dichloroethene	34. carbon tetrachloride	57. 2-chloroethyl vinyl ether	80. styrene	103. <i>n</i> -butylbenzene
12. iodomethane	35. ethyl acetate	58. <i>cis</i> -1,3-dichloropropene	81. bromoform	104. 1,2-dichlorobenzene
13. carbon disulfide	36. methyl acrylate	59. toluene-d8	82. isopropylbenzene	105. 1,2-dibromo-3-chloropropane
14. Freon [®] 113	37. dibromofluoromethane	60. toluene	83. <i>n</i> -amyl acetate	106. nitrobenzene
15. acrolein	38. tetrahydrofuran	61. 2-nitropropane	84. 4-bromo-1-fluorobenzene (ss)	107. hexachlorobutadiene
16. allyl chloride	39. 1,1,1-trichloroethane	62. tetrachloroethene	85. <i>cis</i> -1,4-dichloro-2-butene	108. 1,2,4-trichlorobenzene
17. methylene chloride	40. 2-butanone	63. 4-methyl-2-pentanone	86. <i>n</i> -propylbenzene	109. naphthalene
18. acetone	41. 1,1-dichloropropene	64. <i>trans</i> -1,3-dichloropropene	87. bromobenzene	110. 1,2,3-trichlorobenzene
19. <i>trans</i> -1,2-dichloroethene	42. benzene	65. 2-bromo-1-chloropropane	88. 1,4-dichlorobutane	
20. methyl acetate	43. propionitrile	66. 1,1,2-trichloroethane	89. 1,1,2,2-tetrachloroethane	
21. methyl <i>tert</i> -butyl ether	44. methacrylonitrile	67. ethyl methacrylate	90. 2-chlorotoluene	
22. <i>tert</i> -butyl alcohol	45. pentafluorobenzene	68. dibromochloromethane	91. 1,3,5-trimethylbenzene	
23. acetonitrile	46. <i>tert</i> -amyl-methyl ether	69. 1,3-dichloropropane	92. 1,2,3-trichloropropane	

*2-Chloroethanol in 8260B mix requires lower scan range for identification; 1,4-dioxane requires fortification or identification using single point high calibration standard.

**Peaks 28 & 29 share ion (43).