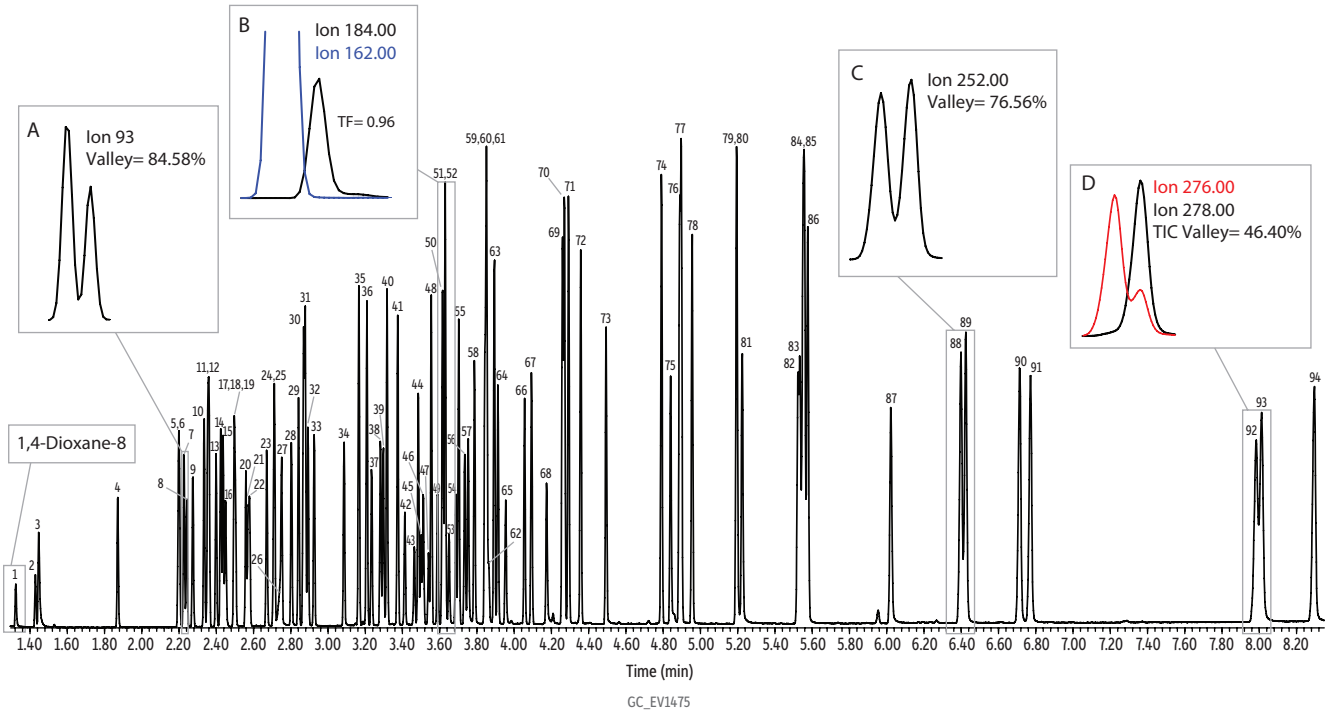
Semivolatiles on Rxi-5Sil MS by U.S. EPA Method 8270 Using the GC Accelerator Kit and Split Injection with a 208 V GC Oven



GC_EV1475

Peaks	tR (min)	Peaks	tR (min)	Peaks	tR (min)
1. 1,4-Dioxane-d8 (IS)	1.32	33. Hexachlorobutadiene	2.93	64. N-N-Diphenylhydrazine (as azobenzene)	3.91
2. N-Nitrosodimethylamine	1.43	34. 4-Chloro-3-methylphenol	3.09	65. 2,4,6-Tribromophenol (SS)	3.95
3. Pyridine	1.45	35. 2-Methylnaphthalene	3.17	66. 4-Bromophenyl phenyl ether	4.06
4. 2-Fluorophenol (SS)	1.87	36. 1-Methylnaphthalene	3.21	67. Hexachlorobenzene	4.09
5. Phenol-d6 (SS)	2.20	37. Hexachlorocyclopentadiene	3.23	68. Pentachlorophenol	4.17
6. Phenol	2.20	38. 2,4,6-Trichlorophenol	3.28	69. Phenanthrene-d10 (IS)	4.26
7. Aniline	2.23	39. 2,4,5-Trichlorophenol	3.30	70. Phenanthrene	4.27
8. Bis(2-chloroethyl) ether	2.24	40. 2-Fluorobiphenyl (SS)	3.32	71. Anthracene	4.29
9. 2-Chlorophenol	2.28	41. 2-Chloronaphthalene	3.38	72. Carbazole	4.36
10. 1,3-Dichlorobenzene	2.34	42. 2-Nitroaniline	3.41	73. di-*n*-Butyl phthalate	4.49
11. 1,4-Dichlorobenzene-d4 (IS)	2.35	43. 1,4-Dinitrobenzene	3.46	74. Fluoranthene	4.79
12. 1,4-Dichlorobenzene	2.36	44. Dimethyl phthalate	3.49	75. Pyrene	4.79
13. Benzyl alcohol	2.40	45. 1,3-Dinitrobenzene	3.50	76. Benzidine	4.84
14. 1,2-Dichlorobenzene	2.42	46. 2,6-Dinitrotoluene	3.51	77. Pyrene-d10 (IS)	4.89
15. 2-Methylphenol	2.44	47. 1,2-Dinitrobenzene	3.54	78. *p*-Terphenyl-d14 (SS)	4.96
16. Bis(2-chloroisopropyl)ether	2.45	48. Acenaphthylene	3.56	79. Butyl benzyl phthalate	5.19
17. 4-Methylphenol	2.50	49. 3-Nitroaniline	3.59	80. 3,3'-Dimethylbenzidine	5.20
18. 3-Methylphenol	2.50	50. Acenaphthene-d10 (IS)	3.62	81. Bis(2-ethylhexyl) adipate	5.22
19. N-Nitrosodi-N-propylamine	2.50	51. Acenaphthene	3.63	82. 3,3'-Dichlorobenzidine	5.52
20. Hexachloroethane	2.56	52. 2,4-Dinitrophenol	3.63	83. Bis(2-ethylhexyl) phthalate	5.53
21. Nitrobenzene-d5 (SS)	2.57	53. 4-Nitrophenol	3.65	84. Benz[a]anthracene	5.55
22. Nitrobenzene	2.58	54. 2,4-Dinitrotoluene	3.69	85. Chrysene-d12 (IS)	5.56
23. Isophorone	2.67	55. Dibenzofuran	3.70	86. Chrysene	5.58
24. 2-Nitrophenol	2.71	56. 2,3,5,6-Tetrachlorophenol	3.73	87. Di-n-octyl phthalate	6.02
25. 2,4-Dimethylphenol	2.71	57. 2,3,4,6-Tetrachlorophenol	3.75	88. Benzo[b]fluoranthene	6.40
26. Benzoic acid	2.74	58. Diethyl Phthalate	3.79	89. Benzo[k]fluoranthene	6.42
27. Bis(2-chloroethoxy)methane	2.75	59. 4-Chlorophenyl phenyl ether	3.84	90. Benzo[a]pyrene	6.71
28. 2,4-Dichlorophenol	2.80	60. Fluorene	3.85	91. Perylene-d12 (IS)	6.77
29. 1,2,4-Trichlorobenzene	2.84	61. 4-Nitroaniline	3.85	92. Indeno[1,2,3-cd]pyrene	7.98
30. Naphthalene-D8 (IS)	2.87	62. 4,6-Dinitro-2-methylphenol	3.86	93. Dibenz[a,h]anthracene	8.01
31. Naphthalene	2.88	63. N-Nitrosodiphenylamine (as diphenylamine)	3.89	94. Benzo[ghi]perylene	8.30
32. 4-Chloroaniline	2.89				

Column	Rxi-5Sil MS, 20 m, 0.15 mm ID, 0.15 µm (cat.# 43816)
Sample	8270 MegaMix (cat.# 31850) 8270 Benzidines mix (cat.# 31852) Benzoic acid (cat.# 31879) Revised B/N surrogate mix (cat.# 31888) Acid surrogate mix (4/89 SOW) (cat.# 31063) Revised SV internal standard mix (cat.# 31886)
Diluent:	Methylene chloride
Conc.:	20 µg/mL (IS/SS 20 µg/mL)
Injection	
Inj. Vol.:	1 µL split (split ratio 20:1)
Liner:	Topaz 4 mm single taper w/wool (cat.# 23303)
Inj. Temp.:	275 °C
Oven	
Oven Temp.:	45 °C (hold 0.5 min) to 285 °C at 56.5 °C/min to 305 °C at 6 °C/min to 330 °C at 60.5 °C/min (hold 2.5 min)

Carrier Gas	He, constant flow
Flow Rate:	1.0 mL/min
Detector	MS
Mode:	Scan
Transfer Line Temp.:	280 °C
Analyzer Type:	Quadrupole
Source Temp.:	330 °C
Quad Temp.:	180 °C
Electron Energy:	70 eV
Solvent Delay Time:	1.3 min
Tune Type:	DFTPP
Ionization Mode:	EI
Scan Range:	39-550 amu
Scan Rate:	9.8 scans/sec
Instrument	Agilent 7890B GC & 5977A MSD
Notes	Analyzed using a 208 V oven equipped with the GC Accelerator kit (cat.# 23849).