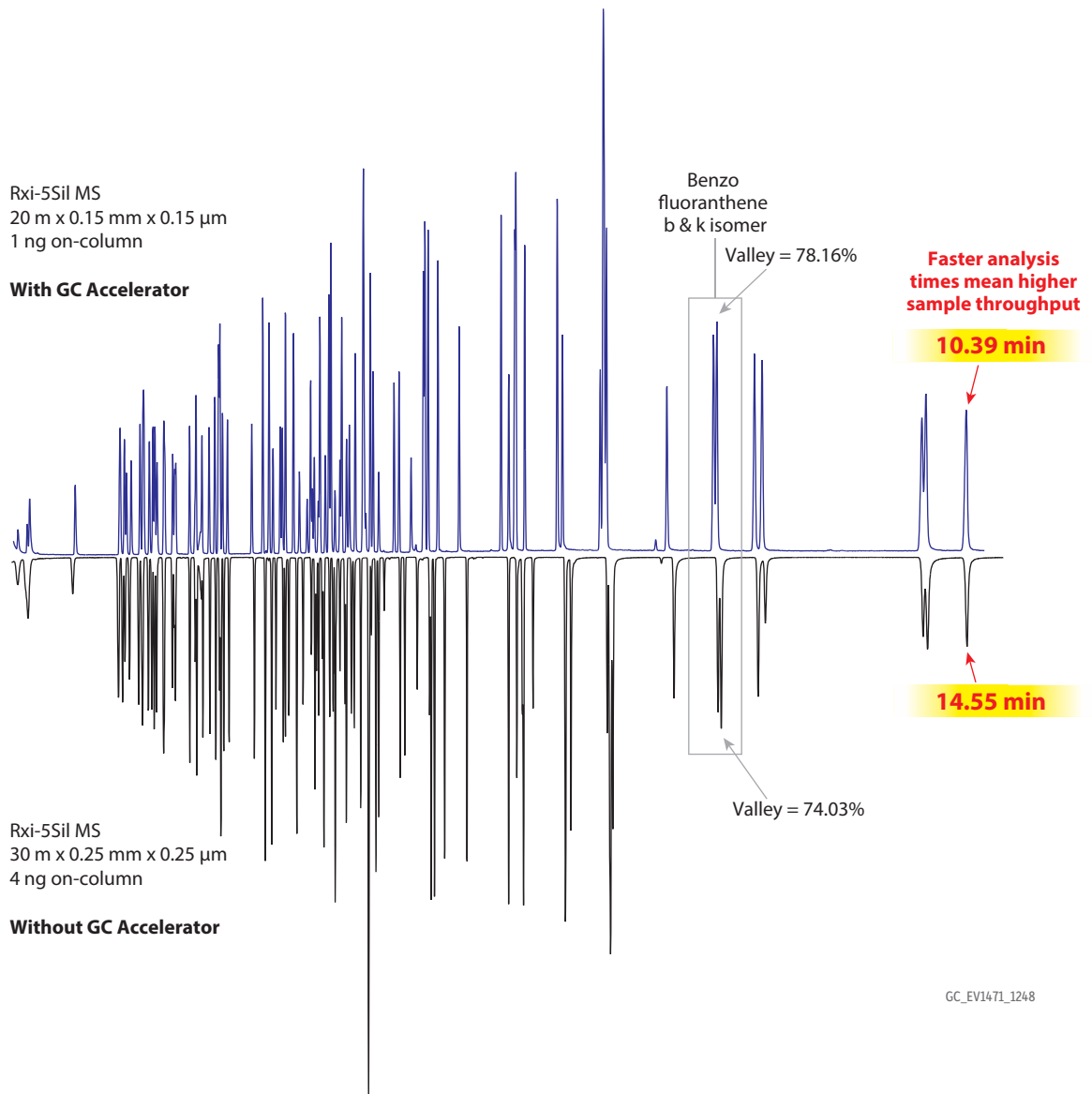


Semivolatiles on Rxi-5Sil MS by U.S. EPA Method 8270 Using the GC Accelerator Oven Insert Kit and Split Injection



Compound list for both top and bottom chromatograms:

Peaks				
1. 1,4-Dioxane-d8 (IS)	20. N-Nitroso-di- <i>n</i> -propylamine	40. 2,4,5-Trichlorophenol	60. 4-Chlorophenyl phenyl ether	80. 3,3'-Dimethylbenzidine
2. 1,4-Dioxane	21. Hexachloroethane	41. 2-Fluorobiphenyl (SS)	61. Fluorene	81. Butyl benzyl phthalate
3. N-Nitrosodimethylamine	22. Nitrobenzene-D5 (SS)	42. 2-Chloronaphthalene	62. 4-Nitroaniline	82. Bis(2-ethylhexyl)adipate
4. Pyridine	23. Nitrobenzene	43. 2-Nitroaniline	63. 4,6-Dinitro-2-methylphenol	83. 3,3'-Dichlorobenzidine
5. 2-Fluorophenol (SS)	24. Isophorone	44. 1,4-Dinitrobenzene	64. N-nitrosodiphenylamine	84. Benz[a]anthracene
6. Phenol-d6 (SS)	25. 2-Nitrophenol	45. Dimethyl phthalate	65. 1,2-Diphenylhydrazine	85. Chrysene-D12 (IS)
7. Phenol	26. 2,4-Dimethylphenol	46. 1,3-Dinitrobenzene	66. 2,4,6-Tribromophenol (SS)	86. Bis(2-ethylhexyl)phthalate
8. Aniline	27. Benzoic acid	47. 2,6-Dinitrotoluene	67. 4-Bromophenyl phenyl ether	87. Chrysene
9. Bis(2-chloroethyl)ether	28. Bis(2-chloroethoxy)methane	48. 1,2-Dinitrobenzene	68. Hexachlorobenzene	88. Di- <i>n</i> -octyl phthalate
10. 2-Chlorophenol	29. 2,4-Dichlorophenol	49. Acenaphthylene	69. Pentachlorophenol	89. Benzo[b]fluoranthene
11. 1,3-Dichlorobenzene	30. 1,2,4-Trichlorobenzene	50. 3-Nitroaniline	70. Phenanthrene-D10 (IS)	90. Benzo[k]fluoranthene
12. 1,4-Dichlorobenzene-D4 (IS)	31. Naphthalene-D8 (IS)	51. Acenaphthene-d10 (IS)	71. Phenanthrene	91. Benzo[a]pyrene
13. 1,4-Dichlorobenzene	32. Naphthalene	52. Acenaphthene	72. Anthracene	92. Perylene-D12 (IS)
14. Benzyl alcohol	33. 4-Chloroaniline	53. 2,4-Dinitrophenol	73. Carbazole	93. Indeno[1,2,3- <i>cd</i>]pyrene
15. 1,2-Dichlorobenzene	34. Hexachlorobutadiene	54. 4-Nitrophenol	74. di- <i>n</i> -Butyl phthalate	94. Dibenz[<i>a,h</i>]anthracene
16. 2-Methylphenol	35. 4-Chloro-3-methylphenol	55. 2,4-Dinitrotoluene	75. Fluoranthene	95. Benzo[<i>ghi</i>]perylene
17. Bis(2-chloroisopropyl)ether	36. 2-Methylnaphthalene	56. Dibenzofuran	76. Benzidine	
18. 4-Methylphenol	37. 1-Methylnaphthalene	57. 2,3,5,6-Tetrachlorophenol	77. Pyrene-D10 (SS)	
19. 3-Methylphenol	38. Hexachlorocyclopentadiene	58. 2,3,4,6-Tetrachlorophenol	78. Pyrene	
	39. 2,4,6-Trichlorophenol	59. Diethyl phthalate	79. <i>p</i> -Terphenyl-d14 (SS)	

Top c-gram conditions:

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) 1,4-Dioxane (cat.# 31853) 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
Split Vent	
Flow Rate:	12 mL/min
Oven	
Oven Temp.:	70 °C (hold 0.7 min) to 285 °C at 39.8 °C/min to 305 °C at 4.3 °C/min to 320 °C at 28.5 °C/min (hold 0.7 min)
Carrier Gas	He, constant flow
Flow Rate:	0.72 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

Bottom c-gram conditions:

Column	Rxi-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)
Sample	8270 MegaMix (cat.# 31850) 8270 Benzidines mix (cat.# 31852) Benzoic acid (cat.# 31879) 1,4-Dioxane (cat.# 31853) 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.:	40 µg/mL (IS/SS 20 µg/mL)
Injection	
Inj. Vol.:	1 µL split (split ratio 10:1)
Liner:	Premium 4 mm Precision liner w/wool (cat.# 23305.5)
Inj. Temp.:	270 °C
Split Vent	
Flow Rate:	12 mL/min
Oven	
Oven Temp.:	70 °C (hold 1 min) to 285 °C at 28 °C/min to 305 °C at 3 °C/min to 320 °C at 30 °C/min (hold 1 min)
Carrier Gas	He, constant flow
Flow Rate:	1.2 mL/min
Detector	MS
Mode:	Scan
Transfer Line	
Temp.:	280 °C
Analyzer Type:	Quadrupole
Source Temp.:	270 °C
Quad Temp.:	150 °C
Electron Energy:	70 eV
Solvent Delay	
Time:	1.3 min
Tune Type:	DFTPP
Ionization Mode:	EI
Scan Range:	35-550 amu
Scan Rate:	5.36 scans/sec
Instrument	Agilent 7890A GC & 5975C MSD