

Semivolatile Organics

US EPA Method 8270D by GC/MS

Rtx®-XLB

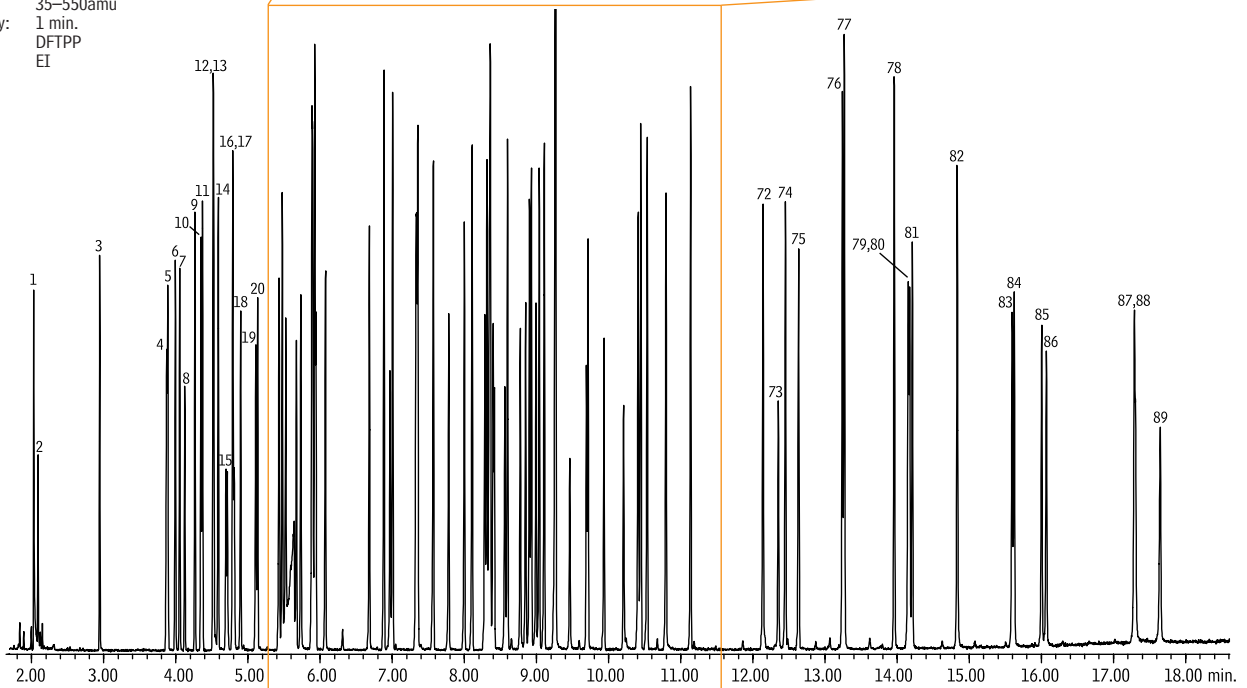
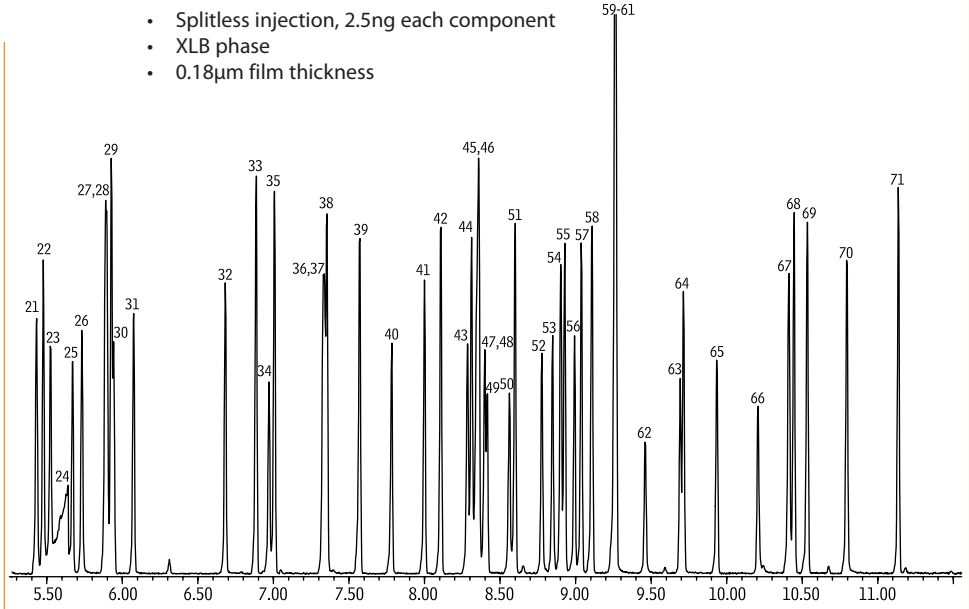
Column: Rtx®-XLB, 20m, 0.18mm ID, 0.18µm (cat.# 42802)

Sample: US EPA Method 8270D mix: 8270 MegaMix® (cat.# 31850), benzoic acid (cat.# 31415), benzidine (cat.# 31441), 2,4-dinitrophenol (cat.# 31291), Acid Surrogate Mix (4/89 SOW) (cat.# 31063), B/N Surrogate Mix (4/89 SOW) (cat.# 31062)

Inj.: 0.5µL, 5ppm each analyte (2.5ng on column) (2.5ppm/1.25ng on column for 3-methylphenol and 4-methylphenol)
2mm splitless cyclo double gooseneck inlet liner (cat.# 20907); splitless hold time 0.15 min.; pressure pulse: 0.20 min. @ 30psi
GC: Agilent 6890
Inj. temp.: 270°C
Carrier gas: helium
Flow rate: 1.2mL/min., constant flow
Oven temp.: 40°C (hold 0.5 min.) to 90°C @ 14°C/min. (no hold) to 330°C @ 22°C/min. (hold 1 min.)

Det.: Agilent 5973 GC/MS
Transfer line temp.: 280°C
Scan range: 35–550amu
Solvent delay: 1 min.
Tune: DFTPP
Ionization: EI

- Splitless injection, 2.5ng each component
- XLB phase
- 0.18µm film thickness



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|---------------------------------|--------------------------------|-------------------------------|---------------------------------|--------------------------------|
| 1. pyridine | 19. nitrobenzene-d5 | 38. 2-fluorobiphenyl | 57. 4-chlorophenyl phenyl ether | 76. benzyl butyl phthalate |
| 2. N-nitrosodimethylamine | 20. nitrobenzene | 39. 2-chloronaphthalene | 58. fluorene | 77. bis(2-ethylhexyl)adipate |
| 3. 2-fluorophenol | 21. isophorone | 40. 2-nitroaniline | 59. diphenylamine | 78. bis(2-ethylhexyl)phthalate |
| 4. phenol-d6 | 22. 2,4-dimethylphenol | 41. dimethylphthalate | 60. 4-nitroaniline | 79. benzo(a)anthracene |
| 5. phenol | 23. 2-nitrophenol | 42. acenaphthylene | 61. azobenzene | 80. chrysene-d12 |
| 6. aniline | 24. benzoic acid | 43. 2,6-dinitrotoluene | 62. 2,4,6-tribromophenol | 81. chrysene |
| 7. 2-chlorophenol | 25. bis(2-chloroethoxy)methane | 44. acenaphthene-d10 | 63. 4,6-dinitro-2-methylphenol | 82. di-n-octyl phthalate |
| 8. bis(2-chloroethyl)ether | 26. 2,4-dichlorophenol | 45. 1,4-dinitrobenzene | 64. 4-bromophenyl phenyl ether | 83. benzo(b)fluoranthene |
| 9. 1,3-dichlorobenzene | 27. 1,2,4-trichlorobenzene | 46. acenaphthene | 65. hexachlorobenzene | 84. benzo(k)fluoranthene |
| 10. 1,4-dichlorobenzene-d4 | 28. naphthalene-d8 | 47. 1,3-dinitrobenzene | 66. pentachlorophenol | 85. benzo(a)pyrene |
| 11. 1,4-dichlorobenzene | 29. naphthalene | 48. 3-nitroaniline | 67. phenanthrene-d10 | 86. perylene-d12 |
| 12. 1,2-dichlorobenzene | 30. hexachlorobutadiene | 49. 1,2-dinitrobenzene | 68. phenanthrene | 87. indeno(1,2,3-cd)pyrene |
| 13. benzyl alcohol | 31. 4-chloroaniline | 50. 4-nitrophenol | 69. anthracene | 88. dibenzo(a,h)anthracene |
| 14. 2-methylphenol | 32. 4-chloro-3-methylphenol | 51. dibenzofuran | 70. carbazole | 89. benzo(ghi)perylene |
| 15. bis(2-chloroisopropyl)ether | 33. 2-methylnaphthalene | 52. 2,3,4,6-tetrachlorophenol | 71. di-n-butylphthalate | |
| 16. hexachloroethane | 34. hexachlorocyclopentadiene | 53. 2,3,5,6-tetrachlorophenol | 72. fluoranthene | |
| 17a. 4-methylphenol | 35. 1-methylnaphthalene | 54. 2,4-dinitrophenol | 73. benzidine | |
| 17b. 3-methylphenol | 36. 2,4,6-trichlorophenol | 55. diethyl phthalate | 74. pyrene | |
| 18. N-nitroso-di-n-propylamine | 37. 2,4,5-trichlorophenol | 56. 2,4-dinitrotoluene | 75. p-terphenyl-d14 | |

GC_EV00747