

EPA Method 524.2 With Cryofocusing

Column: DB-VRX
 30 m x 0.25 mm I.D., 1.4 µm
J&W P/N: 122-1534
Carrier: Helium at 43 cm/sec, measured at 35°C
Oven: 35°C for 5 min
 35-220°C at 20°/min
 220°C for 1 min
Injector: Purge and trap (O.I.A. 4460A)
 20 ppb per compound in 5 mL water
Trap: OV-1/Tenax/Silica Gel/Charcoal
 O.I.A. Cryofocusing Module
Desorb: 180°C
Inject: 160°C
Cryo-trap: -160°C
Detector: MSD, 250°C transfer line
 full scan at m/z 48-260

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|-------------------------------------|---------------------------------------|---------------------------------|
| 1. Dichlorodifluoromethane | 21. 1,2-Dichloropropane | 41. 1,1,2,2-Tetrachloroethane |
| 2. Chloromethane | 22. Dibromomethane | 42. Bromobenzene |
| 3. Vinyl chloride | 23. Bromodichloromethane | 43. 1,2,3-Trichloropropane |
| 4. Bromomethane | 24. <i>cis</i> -1,3-Dichloropropene | 44. <i>n</i> -Propylbenzene |
| 5. Chloroethane | 25. Toluene | 45. 2-Chlorotoluene |
| 6. Trichlorofluoromethane | 26. <i>trans</i> -1,3-Dichloropropene | 46. 1,3,5-Trimethylbenzene |
| 7. 1,1-Dichloroethene | 27. 1,1,2-Trichloroethane | 47. 4-Chlorotoluene |
| 8. Methylene chloride | 28. Tetrachloroethene | 48. <i>tert</i> -Butylbenzene |
| 9. <i>trans</i> -1,2-Dichloroethene | 29. 1,3-Dichloropropane | 49. 1,2,4-Trimethylbenzene |
| 10. 1,1-Dichloroethane | 30. Dibromochloromethane | 50. <i>sec</i> -Butylbenzene |
| 11. <i>cis</i> -1,2-Dichloroethene | 31. 1,2-Dibromoethane | 51. 1,3-Dichlorobenzene |
| 12. 2,2-Dichloropropane | 32. Chlorobenzene | 52. <i>p</i> -Isopropyltoluene |
| 13. Bromochloromethane | 33. 1,1,1,2-Tetrachloroethane | 53. 1,4-Dichlorobenzene |
| 14. Chloroform | 34. Ethylbenzene | 54. <i>n</i> -Butylbenzene |
| 15. 1,1,1-Trichloroethane | 35. <i>m</i> -Xylene | 55. 1,2-Dichlorobenzene |
| 16. Carbon tetrachloride | 36. <i>p</i> -Xylene | 56. 1,2-Dibromo-3-chloropropane |
| 17. 1,1-Dichloropropene | 37. <i>o</i> -Xylene | 57. 1,2,4-Trichlorobenzene |
| 18. Benzene | 38. Styrene | 58. Hexachlorobutadiene |
| 19. 1,2-Dichloroethane | 39. Bromoform | 59. Naphthalene |
| 20. Trichloroethene | 40. Isopropylbenzene | 60. 1,2,3-Trichlorobenzene |

Note: Peaks 41 and 37 are 1,1,2,2-Tetrachloroethane and *o*-Xylene which have primary characteristic ions of 83 and 106, respectively.

Method 524.2 standards are found on pages 132-133

