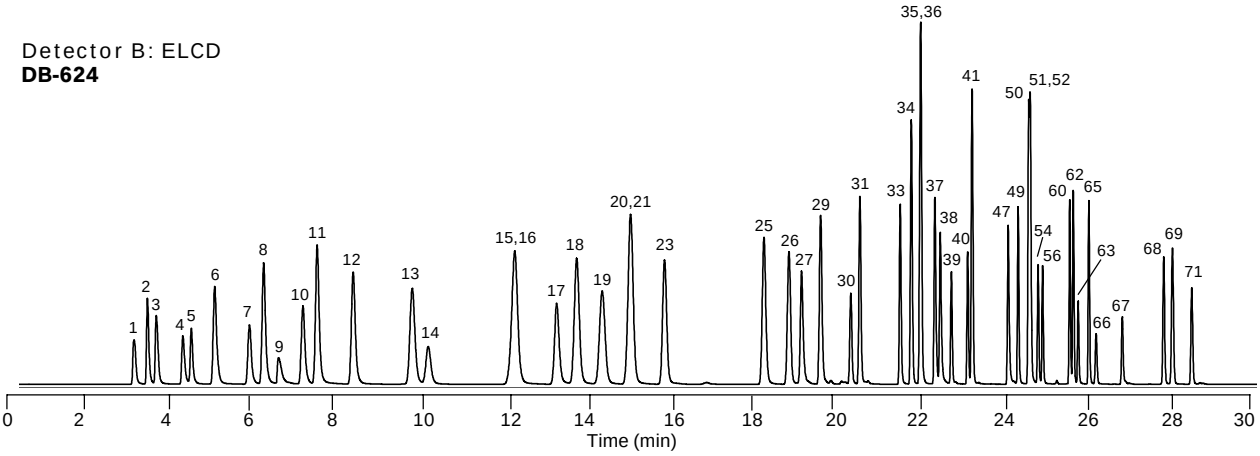
Extended Analyte List for EPA Method 8021
DB-624/VRX Dual Column

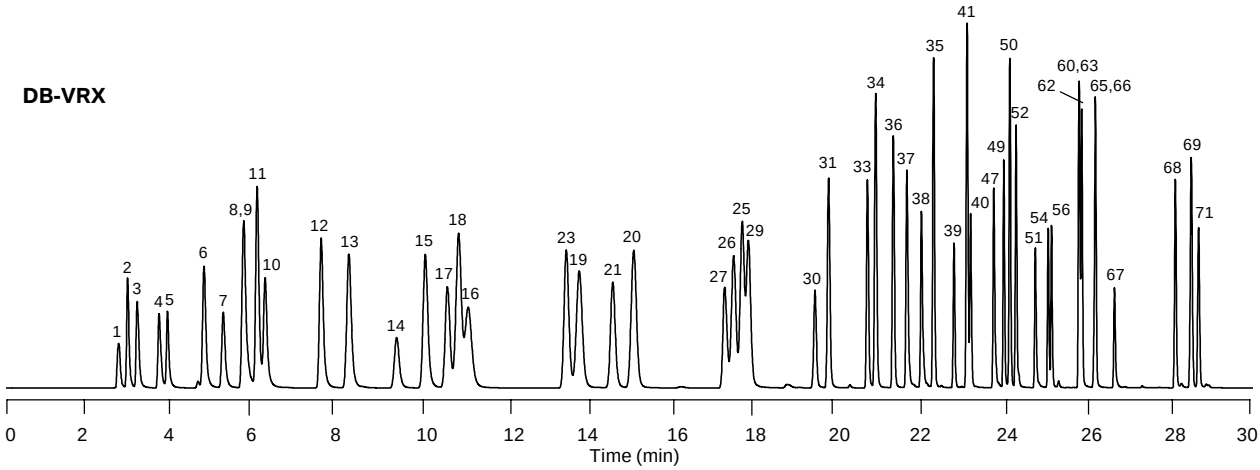
LVI featured on page 115
Method 8021 standards are found on page 143

Columns:	**DB-624** **75 m x 0.45 mm I.D., 2.55 µm** **DB-VRX** **75 m x 0.45 mm I.D., 2.55 µm**
Guard column:	**5 m x 0.53 mm I.D. deactivated fused silica** **3-way universal glass union**
J&W P/N:	**009-1513**
Carrier:	Helium at 9 mL/min, measured at 35°C
Oven:	35°C for 12 min 35-60°C at 5°/min 60°C for 1 min 60-200°C at 17°/min 200°C for 5 min
Injector:	Purge and trap (O.I.A. 4560) J&W LVI (Low Volume Injector), 150°C 20 ppb per component in 5 mL water
Trap:	VOCARB™3000
Preheat:	175°C
Desorb:	260°C for 1 min
Detector A:	PID (O.I.A. 4430), 200°C Helium makeup gas at 20 mL/min
Detector B:	ELCD (O.I.A. 4420), with NiCat™ reaction tube in the halogen mode, 950°C reactor temperature

Compound list for all chromatograms

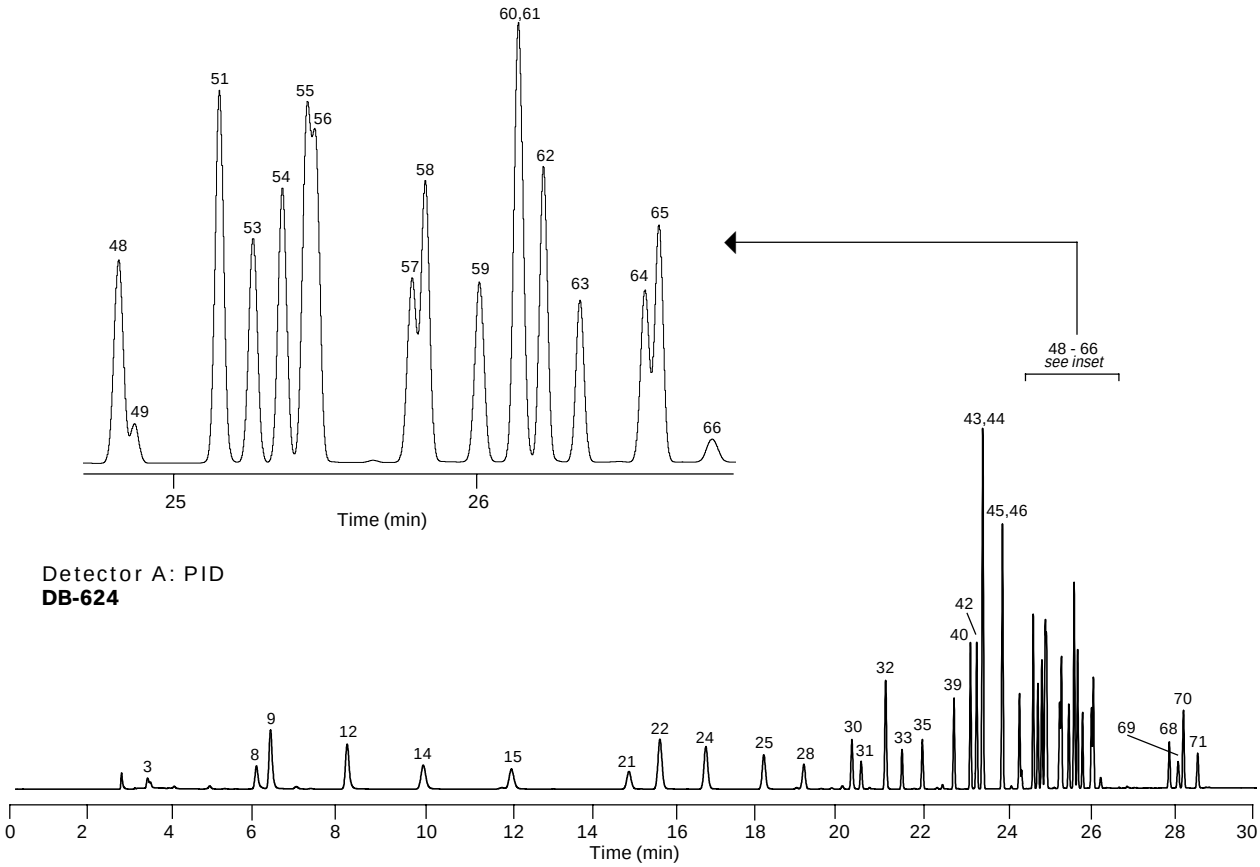
1. Dichlorodifluoromethane
2. Chloromethane
3. Vinyl chloride
4. Bromomethane
5. Chloroethane
6. Trichlorofluoromethane
7. 2-Chloropropane (IS)
8. 1,1-Dichloroethene
9. Iodomethane
10. Allyl chloride
11. Methylene chloride
12. *trans*-1,2-Dichloroethene
13. 1,1-Dichloroethane
14. Chloroprene
15. *cis*-1,2-Dichloroethene
16. 2,2-Dichloropropane
17. Bromochloromethane
18. Chloroform
19. 1,1,1-Trichloroethane
20. Carbon tetrachloride
21. 1,1-Dichloropropene
22. Benzene
23. 1,2-Dichloroethane
24. Fluorobenzene (IS)
25. Trichloroethene
26. 1,2-Dichloropropane
27. Dibromomethane
28. Trifluorotoluene (IS)
29. Bromodichloromethane
30. 2-Chloroethyl vinyl ether
31. *cis*-1,3-Dichloropropene
32. Toluene
33. *trans*-1,3-Dichloropropene
34. 1,1,2-Trichloroethane
35. Tetrachloroethene
36. 1,3-Dichloropropane
37. Dibromochloromethane
38. 1,2-Dibromoethane
39. 1-Chloro-3-fluorobenzene (IS)
40. Chlorobenzene
41. 1,1,1,2-Tetrachloroethane
42. Ethylbenzene
43. m-xlyene
44. *p*-Xylene
45. Styrene
46. *o*-Xylene
47. Bromoform
48. Isopropylbenzene
49. *cis*-1,4-Dichlorobutene
50. 1,1,2,2-Tetrachloroethane
51. Bromobenzene
52. 1,2,3-Trichloropropane
53. *n*-Propylbenzene
54. 2-Chlorotoluene
55. 1,3,5-Trimethylbenzene
56. 4-Chlorotoluene
57. *tert*-Butylbenzene
58. 1,2,4-Trimethylbenzene
59. *sec*-Butylbenzene
60. 1,3-Dichlorobenzene
61. *p*-Isopropyltoluene
62. 1,4-Dichlorobenzene
63. Benzyl chloride
64. *n*-Butylbenzene
65. 1,2-Dichlorobenzene
66. *bis* (2-Chloroisopropyl) ether
67. 1,2-Dibromo-3-chloropropane
68. 1,2,4-Trichlorobenzene
69. Hexachlorobutadiene
70. Naphthalene
71. 1,2,3-Trichlorobenzene





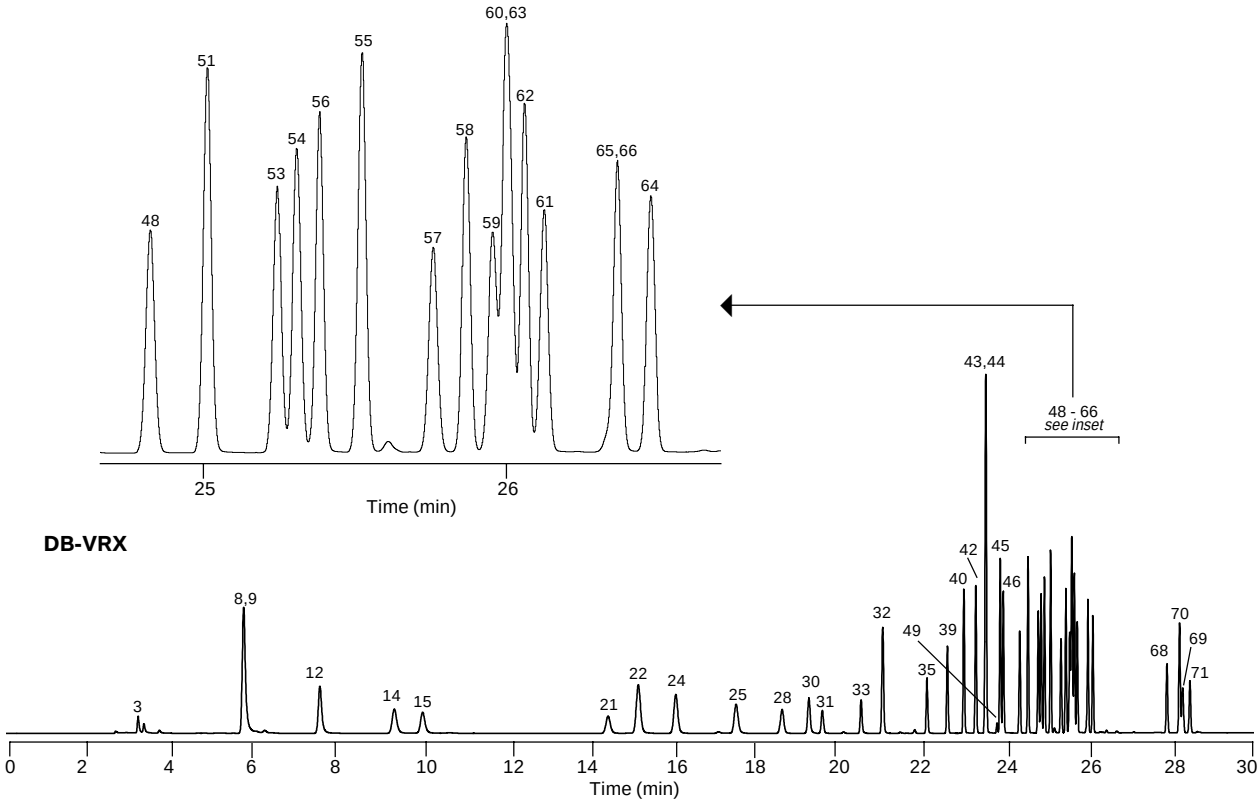
C432

made by elves with really big chromatograms



Detector A: PID

DB-624



DB-VRX