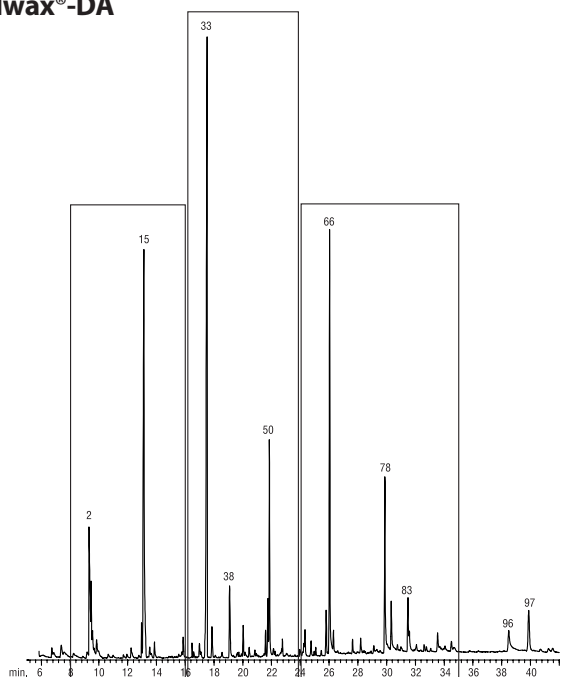


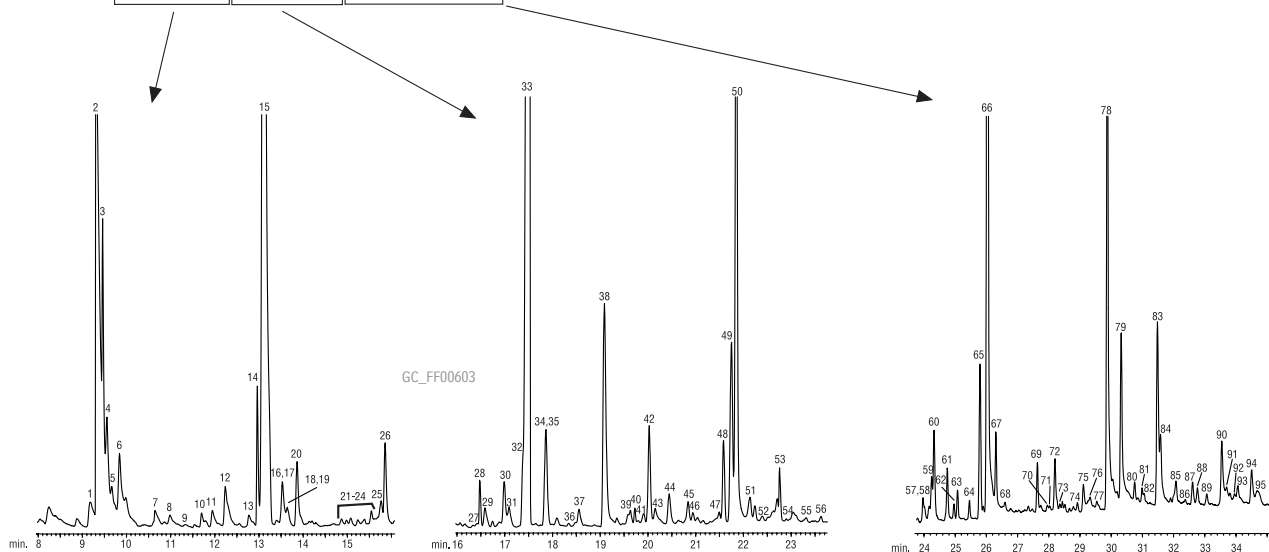
# Malt Whiskey Stabilwax®-DA



Stabilwax®-DA 30m, 0.18mm ID, 0.18µm (cat.# 550752)

Inj.: 10µL large volume injection (splitless),  
at 10µL/min.  
Std. conc.: neat  
Gerstel CIS Injector: 35°C (hold 2 min.), to 300°C @  
10°C/sec. (hold 5 min.)  
Helium vent flow: 600mL/min. with 1.8 min. vent end time  
Carrier gas: helium  
Linear velocity: 45cm/sec.  
Oven temp.: 60°C (hold 2 min.) to 100°C @  
20°C/min., to 240°C @ 5°C/min.  
(hold 10 min.)  
Det.: MSD  
Transfer line temp.: 240°C  
Quadrupole temp.: 150°C  
MS source temp.: 230°C  
Scan range: 30–400amu  
Ionization: 70eV  
Mode: EI

Chromatogram courtesy of Kevin MacNamara, Ph.D., Irish Distilleries, Ltd.



1. ethyl octanoate
2. acetic acid
3. siloxane
4. 1-hydroxy-2,3-butadione
5. 1-hydroxy-2-propanone acetate
6. furfural
7. formic acid
8. propionic acid
9. isobutyric acid
10. dimethyl sulfoxide
11. 5-methyl furfural
12. methyl decanoate + unknown
13. butyric acid
14. siloxane
15. ethyl decanoate
16. furfuryl alcohol
17. isoamyl octanoate
18. isovaleric acid
19. 2-methylbutyric acid
20. diethyl succinate
21. 3-methyl-2(5H)-furanone (possible)
22. valeric acid

23. ethyl undecanoate
24. isobutyl decanoate
25. 2(5H)-furanone
26. unknown
27. di(ethyleneglycol) butyl ether
28. siloxane
29. methyl dodecanoate
30. 2-phenylethyl acetate
31. methylcyclopentenolone
32. hexanoic acid
33. ethyl dodecanoate
34. isoamyl decanoate
35. guaiacol
36. dodecyl acetate (possible)
37. whiskey lactone (1)
38. 2-phenylethanol
39. heptanoic acid
40. siloxane
41. dimethoxybenzene or 4-methyl-guaiacol
42. whiskey lactone (2)
43. dodecanol

44. unknown
45. phenol
46. methyl tetradecanoate
47. nerolidol
48. diethyl malate
49. ethyl tetradecanoate
50. octanoic acid
51. unknown
52. *p*-cresol
53. siloxane
54. diethyl octanedioate
55. monomethyl succinate (possible)
56. 3,5-dimethyl-2,4(5H)furanone
57. nonanoic acid
58. diethyl 2-hydroxyglutarate
59. unknown
60. tetradecanol
61. 4-vinylguaiacol
62. diethyl nonanedioate
63. methyl hexadecanoate
64. ethyl γ-lactone 2-hydroxyglutarate
65. ethyl hexadecanoate

66. decanoic acid
67. ethyl 9-hexadecanoate
68. triacosan
69. unknown
70. phthalide
71. diethyl phthalate
72. hexadecanol
73. 4-hydroxycinnamic acid (decomp.)
74. methyl stearate
75. benzoic acid
76. methyl 8-octadecenoate
77. ethyl stearate
78. dodecanoic acid
79. hydroxymethylfurfural
80. ethyl linoleate
81. 4-allyl-2,6-dimethoxyphenol
82. diisobutyl phthalate
83. vanillin
84. sinapic acid (decomp.)
85. 2-phenylethyl decanoate  
+ 2 unknowns
86. 4-propenyl-2,6-dimethoxyphenol

87. ethyl vanillate
88. acetovanillone
89. vanillin methyl ketone
90. tetradecanoic acid
91. ethyl homovanillate
92. propiovanillone
93. fatty acid ester
94. (similar to 4-allyl-2,6-dimethoxyphenol)
95. unknown
96. hexadecanoic acid
97. syringaldehyde