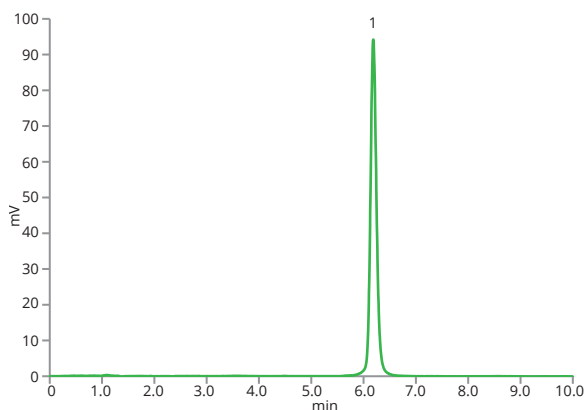


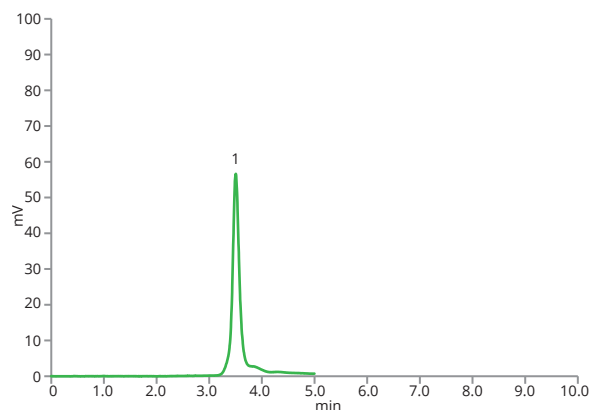
## HMF in Syrup

5-Hydroxymethylfurfural (5-HMF) is formed from fructose or glucose by the heat treatment of food. HMF and its derivatives/metabolites are genotoxic, mutagenic and may be carcinogenic, which is why HMF is analysed in various food matrices, such as in fruit and vegetable products, instant coffee and honey.

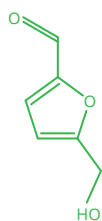
<b>Substance</b>	5-HFM, 5-Hydroxymethylfurfural, CAS Number 170678-36-1
<b>Synonym</b>	5-(Hydroxymethyl)furan-2-carbaldehyde
<b>Formula</b>	5-(Hydroxymethyl)-2-furyl]acetaldehyde



Standard mixture on ARION® column



Comparison with core-shell column (Competitor K)



5-(Hydroxymethyl)-2-furyl]acetaldehyde



## HMF in Syrup

<b>Column</b>	ARION® Plus C18, 5.0 µm
<b>Dimensions</b>	250 mm × 4.6 mm
<b>Part number</b>	ARI-5720-LM46
<b>Mobile phase</b>	Methanol/water 10/90 (v/v) Isocratic elution
<b>Flow rate</b>	1.5 ml/min
<b>Temperature</b>	30 °C
<b>Injection volume</b>	5.0 µl
<b>Detection</b>	UV @285 nm
<b>Analytes</b>	<b>1. Hydroxymethylfurfural</b>