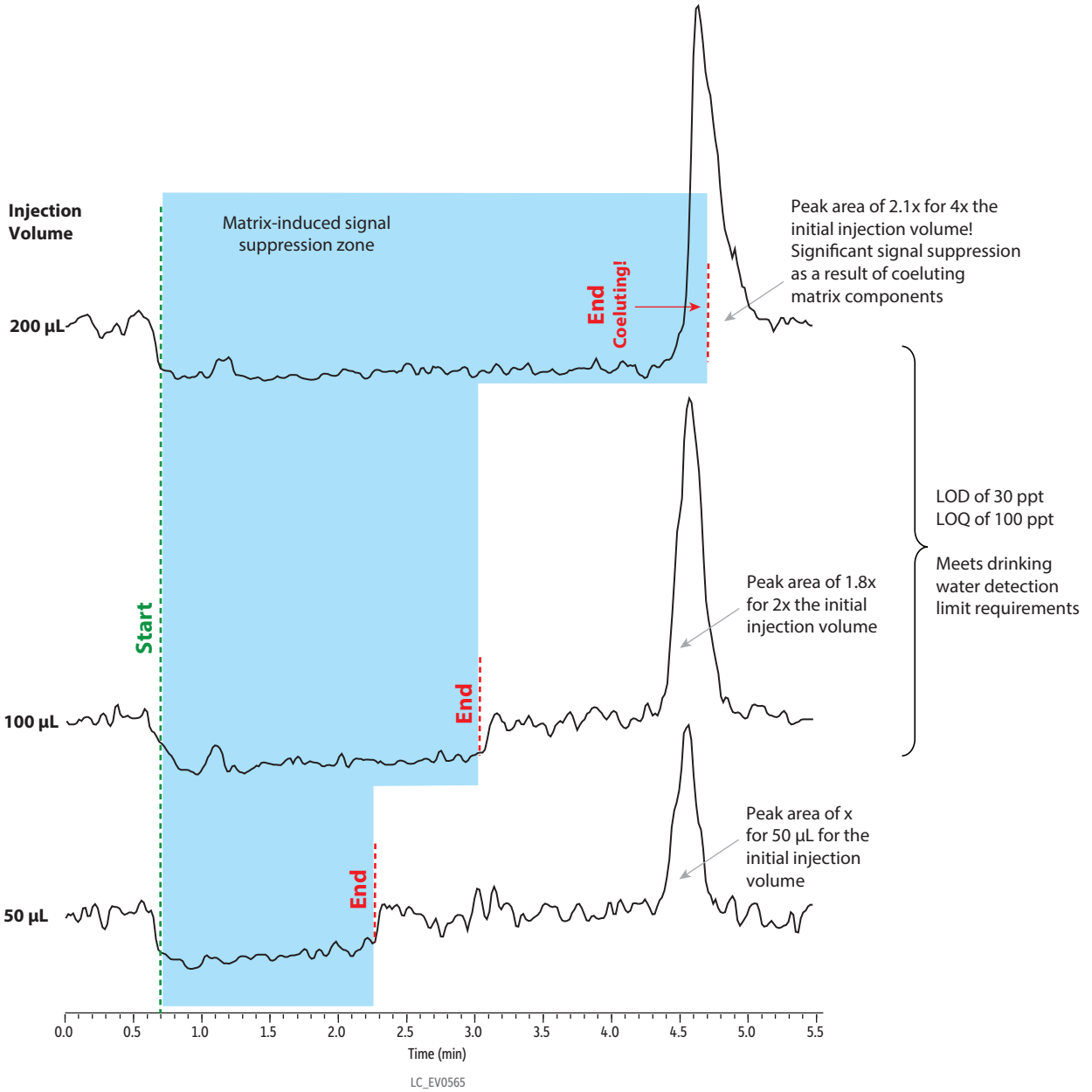
Injection Volume Test of Acrylamide in Tap Water using the Allure Acrylamide LC Column



Peaks	Conc. (ng/L)	Precursor	Product
1. Acrylamide	100	72.1	55.1

Column	Allure Acrylamide (cat.# 916756E)
Dimensions:	150 mm x 3 mm ID
Particle Size:	5 µm
Pore Size:	60 Å
Guard Column:	Allure Acrylamide guard cartridge 10 mm, 2.1 mm ID, 5 µm (cat.# 916750212)
Temp.:	22 °C
Standard/Sample	Acrylamide (cat.# 30494)
Diluent:	Tap water
Conc.:	100 ng/L
Inj. Vol.:	variable µL
Mobile Phase	
A:	0.001% Formic acid in water

Time (min)	Flow (mL/min)	%A
0.00	0.8	100
5.5	0.8	100

Detector	MS/MS
Ion Mode:	ESI+
Mode:	MRM
Instrument	HPLC
Sample Preparation	Tap water fortified with an acrylamide standard to a final concentration of 100 ng/L (ppt), which was then directly injected at 50, 100, and 200 µL injection volumes.
Notes	Note the encroaching suppression zone resulting from ions present in the tap water. In 50 and 100 µL injection volumes, acrylamide is well separated from this matrix effect. At 200 µL injection volume, the matrix interference affects the acrylamide peak shape and signal.

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