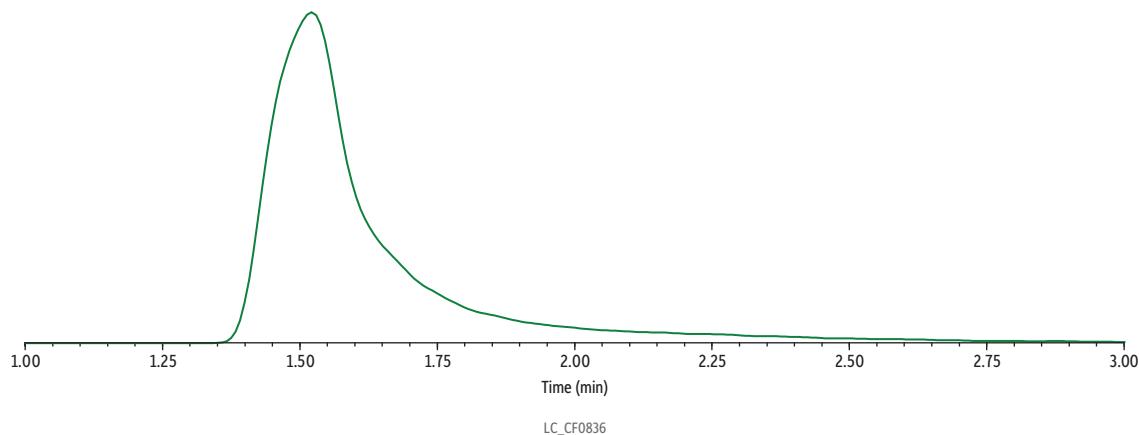


500 µg/mL of Gabapentin in Urine Analyzed on Raptor Biphenyl Using Method 2



Peaks	t_R (min)	Precursor	Product 1	Product 2
1. Gabapentin	1.53	172.1	154.1	136.9

Column	Raptor Biphenyl (cat.# 9309A12)
Dimensions:	100 mm x 2.1 mm ID
Particle Size:	2.7 µm
Pore Size:	90 Å
Guard Column:	Raptor Biphenyl EXP guard column cartridge 5 mm, 2.1 mm ID, 2.7 µm (cat.# 9309A0252)
Temp.:	45 °C
Standard/Sample	
Diluent:	90:10 Water:mobile phase B
Conc.:	500 µg/mL
Inj. Vol.:	2 µL
Mobile Phase	
A:	Water, 10 mM ammonium formate
B:	90:10 Methanol:2-propanol (v/v), 0.1% formic acid
	Time (min) Flow (mL/min) %A %B
	0.00 0.5 90 10
	7.00 0.5 25 75
	9.00 0.5 0 100
	10.00 0.5 0 100
	10.01 0.5 90 10
	11.00 0.5 90 10
Max Pressure:	390 bar
Detector	Shimadzu 8045 LC-MS/MS
Ion Mode:	ESI+
Mode:	MRM
Instrument	Shimadzu Nexera X2
Sample Preparation	Control urine (20 µL) was added to a 1.5 mL microcentrifuge tube along with 20 µL of a premade enzyme hydrolysis master mix. The sample was vortexed for 10 seconds and left to incubate at room temperature for 20 minutes. After the incubation, 260 µL of the diluent (water:mobile phase B [v/v]) was added. A 100 µL aliquot was added to a vial insert (cat.# 21776) in a 2.0 mL, amber, short-cap vial (cat.# 21142) and capped with a 9 mm short cap (cat.# 24497) and injected on the LC-MS/MS for analysis.