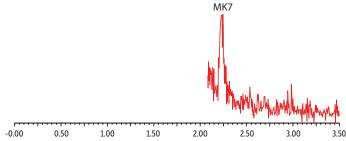
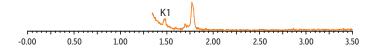
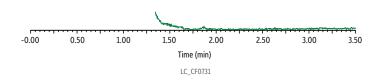
## Endogenous Vitamin K1 and K2 in Japanese Descent Plasma on Raptor Biphenyl

- Complete solution for Vitamin K1 and K2
- Fast, simple Biotage ISOLUTE PLD+
   96-well plate sample preparation removes phospholipids.
- Raptor Biphenyl column provides high sensitivity for trace-level analysis.







tr (min)	Precursor Ion	Product Ion
- '-	445.5	187.2
1.48	451.5	187.2
2.24	649.7	187.2
	1.48	- 445.5 1.48 451.5

Column
Dimensions:
Particle Size:
Pore Size:
Temp.:

Raptor Biphenyl (cat.# 9309A52) 50 mm x 2.1 mm ID 2.7 µm 90 Å 40 °C

Standard/Sample
Diluent:
Conc.:

85:15 Methanol:water Endogenous vitamin K1 and K2 5 µL

Inj. Vol.: Mobile Phase A:

Water, 0.1% formic acid, 5 mM ammonium formate Methanol, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.4	10	90
1.00	0.4	0	100
3.00	0.4	0	100
3.01	0.4	10	90
4.00	0.4	10	90

Detector MS/MS lon Mode: ESI+ Mode: MRM Instrument UHPLC Sample Preparation A 500 µ

A 500  $\mu$ L aliquot of plasma sample was mixed with 5  $\mu$ L of internal standard solution (K1-d7, MK4-d7, and MK7-d7 at 100 ng/mL in methanol) and 1.5 mL of acetonitrile followed by vortexing for 20 seconds at 3000 rpm. After centrifugation at 4300 rpm for 10 minutes, the supernatant was loaded onto a Biotage ISOLUTE PLD+ 96-well plate (50 mg) and vacuum was applied to collect the eluate. The eluate was then evaporated to dryness at 50 °C under a gentle stream of nitrogen. The dried extract was reconstituted with 100  $\mu$ L of diluent and 5  $\mu$ L of sample was injected for analysis.

