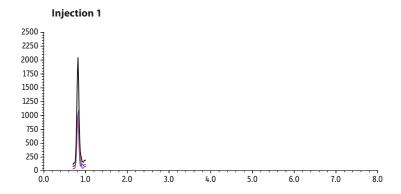
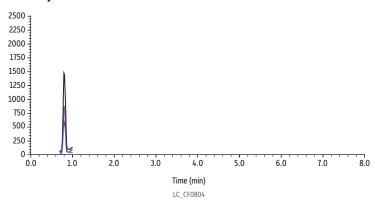
## Morphine on Raptor Biphenyl (Figure 7 for Biphenyl Advantage Article)



## Injection 1000



Peaks	tr (min)	Precursor	Product Ion 1	Product Ion 2
1. Morphine	0.85	286.2	152.1	165.0

Raptor Biphenyl (cat.# 9309A52) Column Dimensions: 50 mm x 2.1 mm ID

2.7 µm 90 Å Particle Size: Pore Size:

Guard Column: Raptor Biphenyl EXP guard column cartridge 5 mm, 2.1 mm ID, 2.7 µm (cat.# 9309A0252)

Temp.: Standard/Sample

Diluent: 90:10 Water:methanol containing 0.1% formic acid 2 ng/mL in urine, diluted 30-fold 5 µL Conc.:

Inj. Vol.: Mobile Phase

B:

Water, 0.1% formic acid Methanol, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.6	90	10
6.00	0.6	25	75
7.00	0.6	0	100
8.00	0.6	0	100
8.01	0.6	90	10
0.00	0.6	00	10

Detector Shimadzu 8060 Ion Source: Ion Mode: Electrospray ESI+

Shimadzu Nexera X2 Instrument **Sample Preparation** 

Morphine was spiked at 2 ng/mL into urine, hydrolyzed, diluted 30-fold, and centrifuged. The sample was aliquoted into 2 mL, screw-threat vials (cat.# 21143) and capped with short-cap, screw-vial closures (cat.# 24498).

