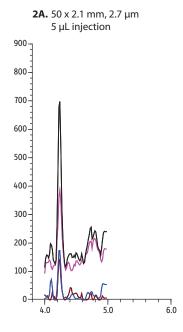
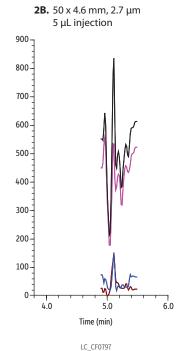
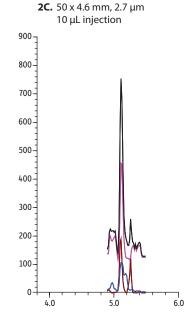
Buprenorphine on Raptor Biphenyl (Figure 2 for Biphenyl Advantage Article)







Product Ion 3

396.4

Peaks	Precursor	Product Ion 1	Product Ion 2
1. Buprenorphine	468.3	55.1	414.2

90:10 Water:methanol containing 0.1% formic acid

Column Temn · Standard/Sample

Diluent: Conc.: **Mobile Phase**

B:

Notes

2 ng/mL in urine, diluted 30-fold Water, 0.1% formic acid

Methanol, 0.1% formic acid

See notes

%A	%E
90	10
25	75
0	100
0	100
90	10
90	10
	90 25 0 0 90

Flow: 0.6-0.9 mL/min

Detector Shimadzu 8060 Ion Source: Electrospray Ion Mode: ESI+ Shimadzu Nexera X2 Instrument

Sample Preparation Buprenorphine 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). Figure 2A

Column: Raptor Biphenyl 50 x 2.1 mm, 2.7 µm (cat.# 9309A52)

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

Inj. Vol.: 5 µL Flow (mL/min): 0.6

Figure 2B Column: Raptor Biphenyl 50 x 4.6 mm, 2.7 μm (cat.# 9309A55)

Guard: Raptor Biphenyl EXP guard column cartridge 5 mm, 4.6 mm ID, 2.7 µm (cat.# 9309A0250)

Inj. Vol.: 5 μL Flow (mL/min): 0.9

Figure 2C Column: Raptor Biphenyl 50 x 4.6 mm, 2.7 μm (cat.# 9309A55) Guard: Raptor Biphenyl EXP guard column cartridge 5 mm, 4.6 mm ID, 2.7 μm (cat.# 9309A0250)

Inj. Vol.: 10 μL Flow (mL/min): 0.9

