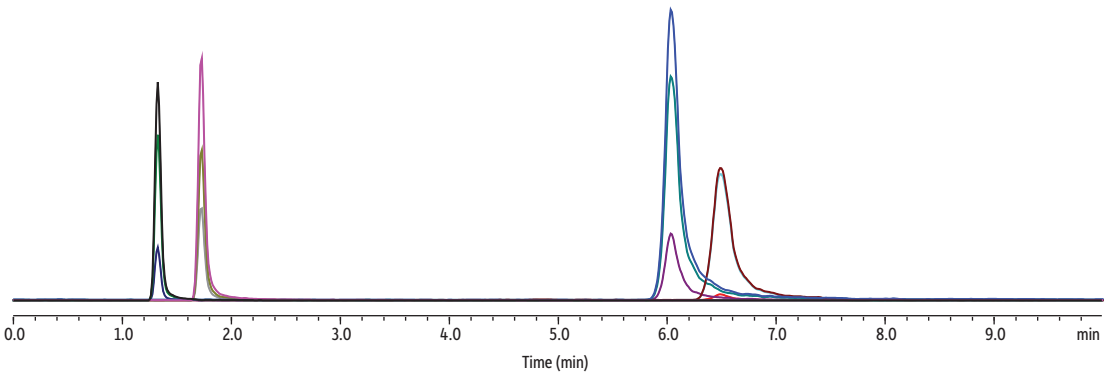
Chlormequat, Mepiquat, Paraquat, and Diquat on Raptor HILIC-Si by LC-MS/MS



LC_GN0696

Peaks	t_R (min)	Precursor Ion 1	Product Ion 1	Precursor Ion 2	Product Ion 2
1. Chlormequat	1.325	122.0	58.2	122.0	63.1
2. Mepiquat Chloride	1.724	114.0	98.2	114.0	58.2
3. Paraquat	6.036	186.0	171.0	171.0	77.2
4. Diquat	6.491	183.0	157.0	183.0	130.0

Column Raptor HILIC-Si (cat.# 9310A52)
Dimensions: 50 mm x 2.1 mm ID
Particle Size: 2.7 µm
Pore Size: 90 Å
Temp.: 60 °C
Standard/Sample Paraquat & Diquat Calibration Mix (cat.# 32437)
Compounds not present in these mixes were obtained separately.
Diluent: Acetonitrile:water 90:10, 5 mM ammonium formate, 0.5% formic acid
Conc.: 100 ng/mL
Inj. Vol.: 1 µL
Mobile Phase
A: Water, 50 mM ammonium formate, 0.5% formic acid
B: Acetonitrile:water 90:10, 5 mM ammonium formate, 0.5% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.6	0	100
4.00	0.6	25	75
7.00	0.6	25	75
7.01	0.6	0	100
10.00	0.6	0	100

Detector Shimadzu 8060 MS/MS
Ion Source: Electrospray
Ion Mode: ESI+
Mode: MRM
Instrument Shimadzu Nexera X2
Sample Preparation Samples were aliquoted into a 2.0 mL, 9 mm Screw-Thread Polypropylene Vials (cat.# 23242) and capped with 9 mm Solid-Top Polyethylene Caps (cat.# 23244).