Neonicotinoids in Honey by LC-MS/MS

ACE®
Ultra-inert
UHPLC & HPLC Columns

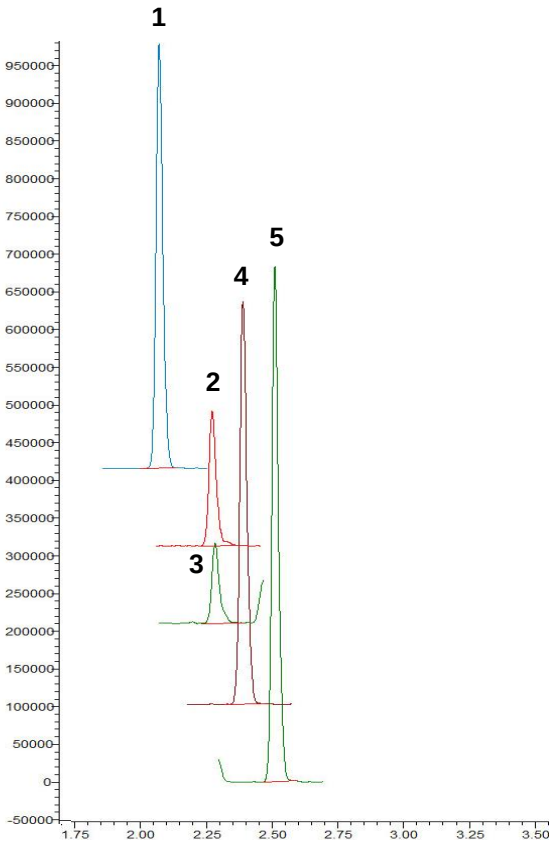
Application #AN4050

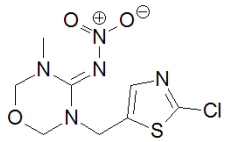
Conditions

Column:	ACE UltraCore 2.5 SuperC18
Dimensions:	100 x 2.1 mm
Part Number:	CORE-25A-1002U
Mobile Phase:	A: 0.05% ammonia in H_2O
	B: 0.05% ammonia in MeOH

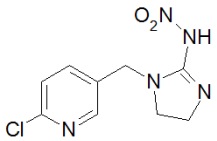
Time (mins)	%B
0	5
3	100

Flow Rate:	0.6 mL/min
Injection:	1 µL (POISe mode)
Temperature:	30 °C
Detection:	Shimadzu LCMS-8060
	Positive ion mode HESI
Sample:	Honey spiked at 0.1 ppb (QuEChERS extract)

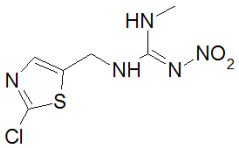




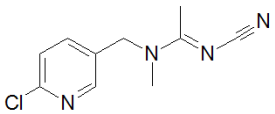
1. Thiamethoxam
(*m/z* 292 → 211)



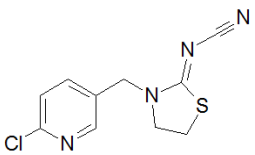
2. Imidacloprid
(*m/z* 256 → 175)



3. Clothianidin
(*m/z* 250 → 169)



4. Acetamiprid
(*m/z* 223 → 126)



5. Thiacloprid
(*m/z* 253 → 126)

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