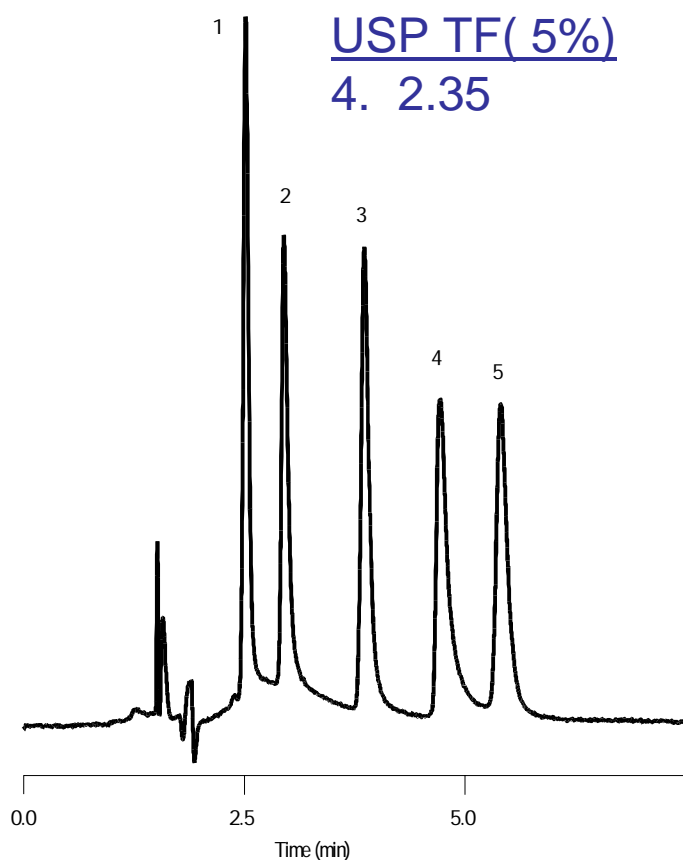
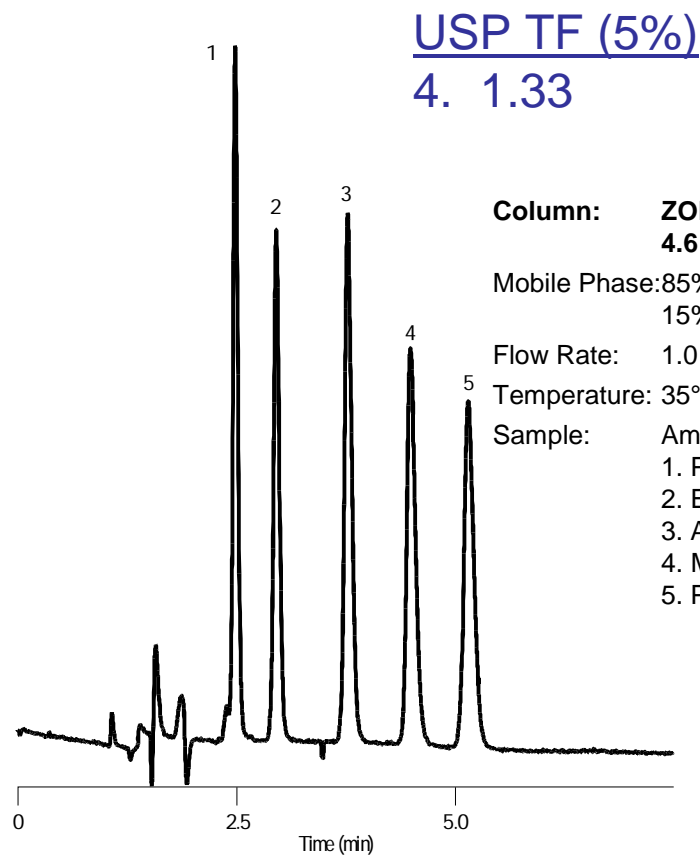


Good Peak Shape at Low pH

pH 7.0



pH 3.0



Column: ZORBAX Eclipse XDB-C8
4.6 x 150 mm, 5 mm

Mobile Phase: 85% 25 mM Na₂HPO₄
15% ACN

Flow Rate: 1.0 mL/min.

Temperature: 35°C

Sample: Amphetamines
1. Phenylpropanolamine pKa 9.4
2. Ephedrine pKa 9.6
3. Amphetamine pKa 9.9
4. Methamphetamine pKa 10.1
5. Phentermine pKa 10.1

- These basic compounds have good peak shape when the pH is lowered and the silica silanols are protonated.



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