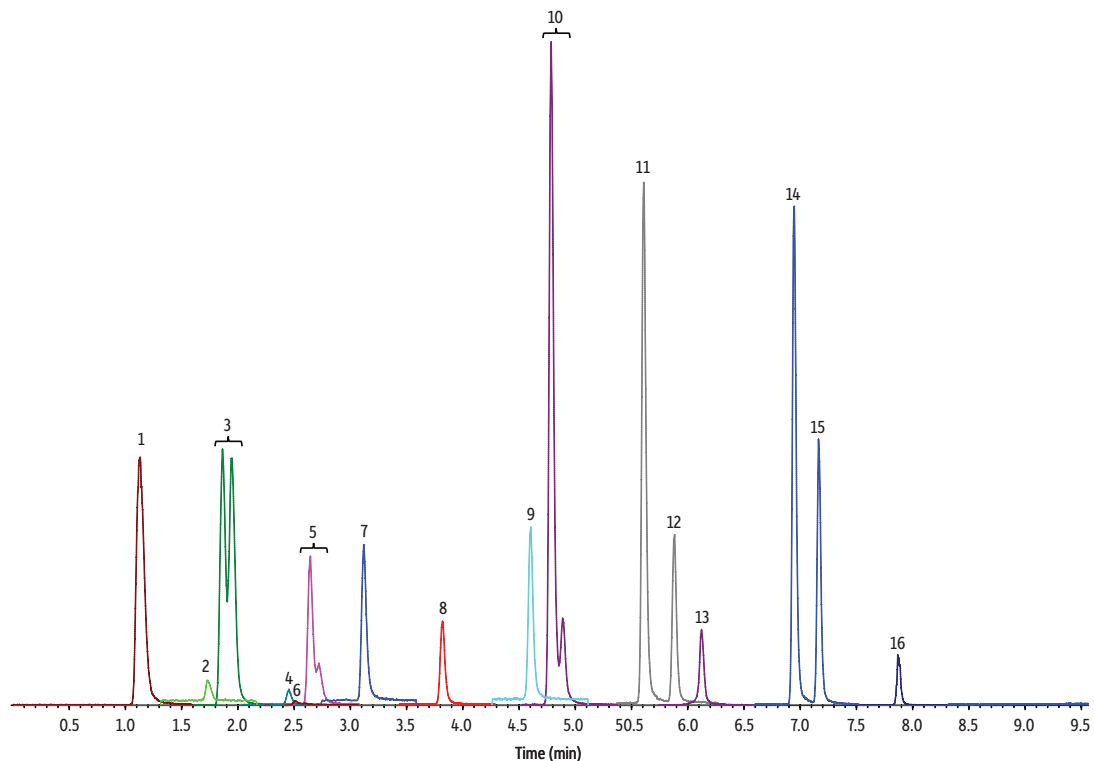


Nitrosamines on Raptor Biphenyl (100 x 3.0 mm; 50:50 Water:Methanol Diluent; 5 µL Injection)



LC_PH0540

Peaks	Retention Time (min)	Concentration (ng/mL)	Precursor Ion	Product Ion
1. N-Nitrosodiethanolamine (NDELA)	1.13	10	135.1	74.0
2. N-Nitrosodimethylamine (NDMA)	1.73	10	75.1	58.0
3. N-Nitrosodiisobutylamine (NDIPLA)	1.86	10	163.0	88.0
4. N-Nitrosomorpholine (NMOR)	2.45	10	117.1	45.2
5. N-Nitrosomethylethylamine (NMEA)	2.64	10	89.1	61.1
6. N-Nitroso-N-methyl-4-aminobutyric acid (NMBA)	2.51	10	147.1	117.0
7. N-Nitrosopyrrolidine (NPYR)	3.12	10	101.1	55.1
8. N-Nitrosodiethylamine (NDEA)	3.82	10	103.1	75.0
9. N-Nitrosopiperidine (NPIP)	4.60	10	115.1	69.0
10. N-Nitrosoethylisopropylamine (NEIPA)	4.79	10	117.1	75.0
11. N-Nitrosodiisopropylamine (NDIPA)	5.61	10	131.1	43.0
12. N-Nitrosodipropylamine (NDPA)	5.88	10	131.1	43.0
13. N-Nitrosomethylphenylamine (NMMPA)	6.12	10	137.0	65.9
14. N-Nitrosodiisobutylamine (NDIBA)	6.95	10	159.1	57.1
15. N-Nitrosodibutylamine (NDBA)	7.16	10	159.1	57.1
16. N-Nitrosodiphenylamine (NDPHA)	7.87	10	199.1	169.0

Column Raptor Biphenyl (cat.# 9309A1E)
Dimensions: 100 mm x 3.0 mm ID
Particle Size: 2.7 µm
Pore Size: 90 Å
Temp.: 40 °C
Standard/Sample Nitrosamine calibration mix, Method 521 (cat.# 31898)
 N-Nitrosodiphenylamine (cat.# 31429)
Diluent: 50:50 Water:methanol
Conc.: 10 ng/mL
Inj. Vol.: 5 µL
Mobile Phase
A: Water, 0.1% formic acid
B: Methanol, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.5	85	15
8.00	0.5	5	95
8.01	0.5	85	15
10.00	0.5	85	15

Detector MS/MS
Ion Source: APCI
Ion Mode: APCI+
Mode: MRM
Instrument UHPLC

Sample Preparation Standard solutions were prepared in 2 mL, screw-thread amber vials (cat.# 21143) and capped with 9 mm, short-cap, screw-vial closures (cat.# 24498).

