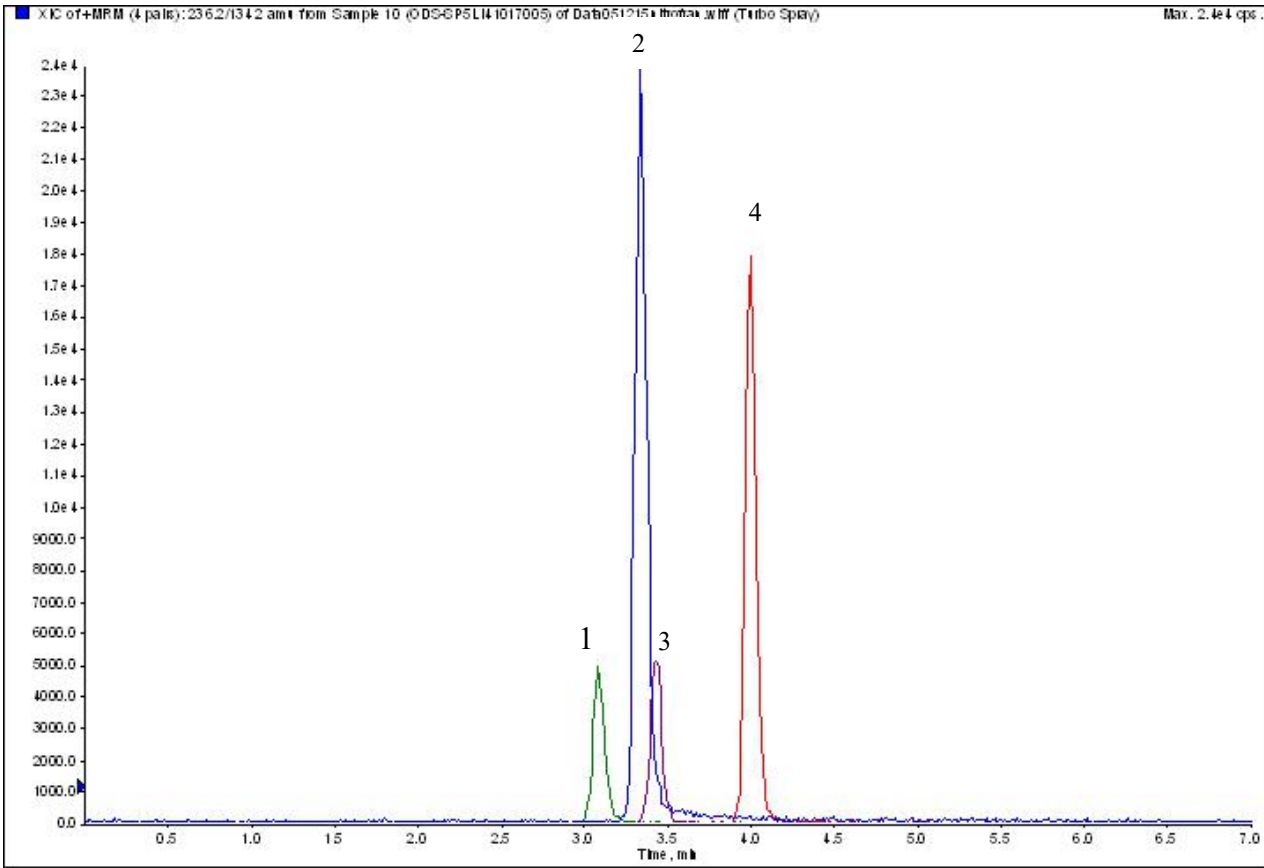


Analysis of Nitrofuran Metabolite by Pre-column HPLC

Data No. LA608-0696

Nitrofurans	Major metabolite
nitrofurantoin	1-aminohydantoin(AHD)
furazolidone	3-amino-2-oxazolidinone (AOZ)
nitrofurazone	Semicarbazide(SEM)
furaltadone	3-amino-5-methylmorpholino-2-oxazolidinone (AMOZ)



Conditions

System	: Symbiosis Pharma system (LC mode) API 2000™
Column	: Inertsil ODS-SP (3 μm, 50 x 2.1 mm I.D)
Column Cat. No.	: 5020-02812
Eluent	: A) CH ₃ OH B) 5 mM CH ₃ COONH ₄ A/B = 30/70 - 5 min - 90/10 - 5 min - 90/10, v/v
Flow Rate	: 0.2 mL/min
Col. Temp.	: 40 °C
Detection	: LC/MS/MS (API 2000™: ESI, Positive, MRM)
Injection Vol.	: 10 μL
Analyte	: Nitrofran metabolites

Analyte:	Q1	Q3
1. 2-NBA-AHD (10 μg/L)		
2. 2-NBA-AOZ (10 μg/L)	249.0	133.8
3. 2-NBA-SEM (10 μg/L)	236.2	134.2
4. 2-NBA-AMOZ (10 μg/L)	209.1	166.1
2-NBA : 2-nitrobenzaldehyde	335.3	291.2