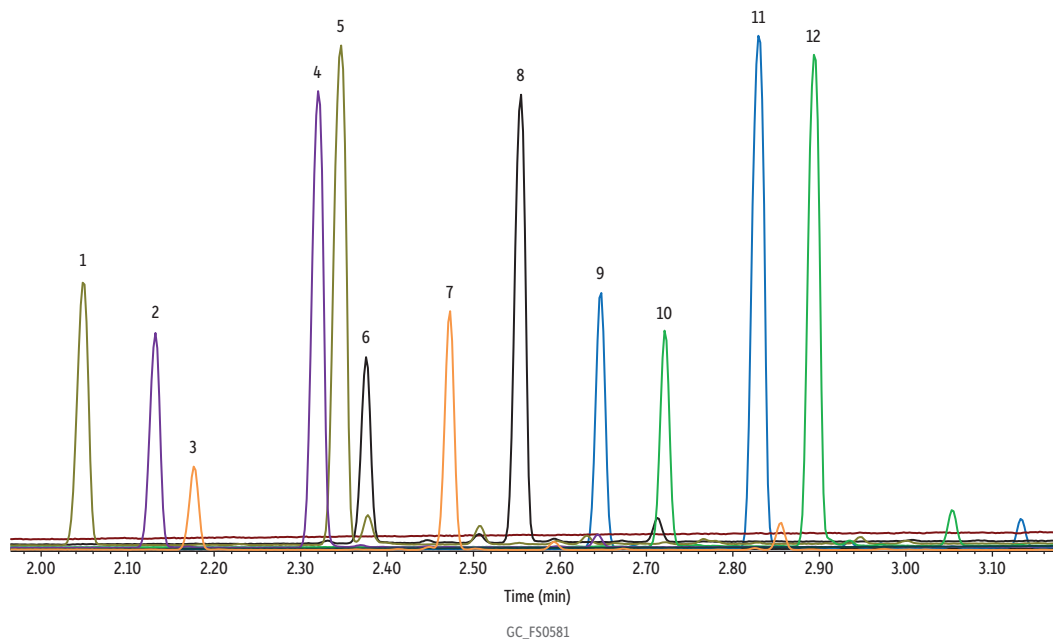


Sugar TFA oximes on Rtx-1701



Peaks	tr (min)	Peaks	tr (min)
1. (E)-Fucose-TFA-oxime	2.048	7. (Z)-Arabinose-TFA-oxime	2.473
2. (E)-Ribose-TFA-oxime	2.132	8. (Z)-Xylose-TFA-oxime	2.555
3. (E)-Arabinose-TFA-oxime	2.176	9. (E)-Mannose-TFA-oxime	2.646
4. (Z)-Ribose-TFA-oxime	2.320	10. (E)-Glucose-TFA-oxime	2.719
5. (Z)-Fucose-TFA-oxime	2.347	11. (Z)-Mannose-TFA-oxime	2.830
6. (E)-Xylose-TFA-oxime	2.376	12. (Z)-Glucose-TFA-oxime	2.894

Column Rtx-1701, 30 m, 0.25 mm ID, 0.25 μ m (cat.# 12023)
Standard/Sample Sugar TFA oximes
Diluent: Ethyl acetate
Conc.: 1-5 mg of starting material
Injection
Inj. Vol.: 1 μ L split (split ratio 100:1)
Liner: Topaz 4.0 mm ID Precision Inlet Liner w/ Wool (cat.# 23305)
Inj. Temp.: 250 °C
Oven
Oven Temp.: 150 °C (hold 1 min) to 280 °C at 28 °C/min
Carrier Gas He, constant flow
Flow Rate: 1.4 mL/min
Linear Velocity: 45.023 cm/sec @ 150 °C
Dead Time: 1.115 min @ 150 °C
Detector MS
Mode: Scan
Scan Program:

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	1.5	50-750	7.5

Transfer Line Temp.: 280 °C
Analyzer Type: Quadrupole
Source Type: Extractor
Source Temp.: 280 °C
Quad Temp.: 150 °C
Electron Energy: 978 eV
Solvent Delay Time: 1.5 min
Tune Type: PFTBA
Ionization Mode: EI
Instrument Agilent 7890B GC & 5977A MSD
Notes Approximately 1 of mg sugar was dissolved in 100 μ L of 40 mg/mL ethylhydroxylaminehydrochloride (ETOx) and heated at 70 °C for 30 min. Samples were cooled to room temperature for approximately 5 min. 120 μ L of N-Methyl-bis(trifluoroacetamide) (MBTFA) was added to each sample and then heated at 70 °C for 30 min. Samples were diluted 1:100 in ethyl acetate.