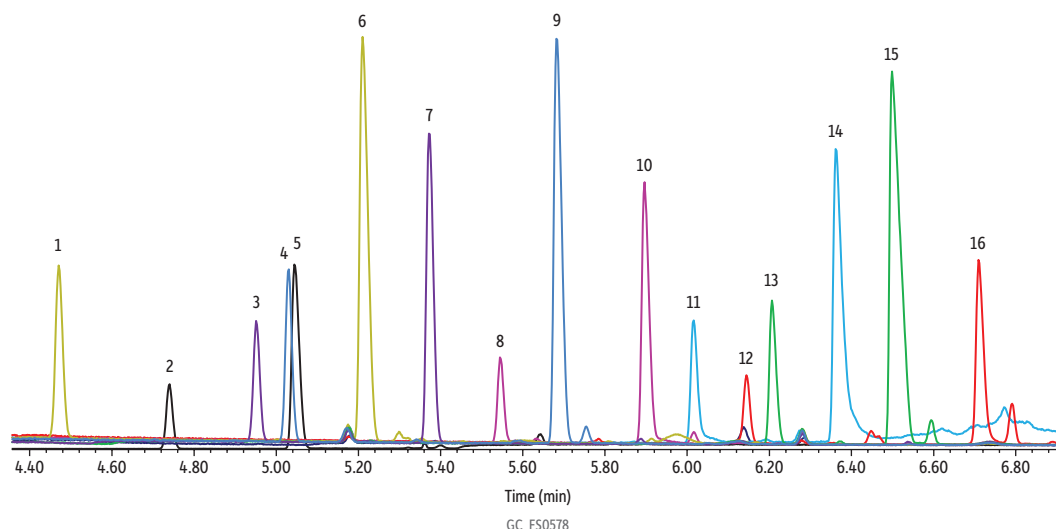


Sugar TFA oximes on Rtx-225



Peaks	tr (min)	Peaks	tr (min)
1. (E)-Fucose-TFA-oxime	4.471	9. (Z)-Arabinose-TFA-oxime	5.684
2. (E)-Rhamnose-TFA-oxime	4.738	10. (Z)-Xylose-TFA-oxime	5.894
3. (E)-Ribose-TFA-oxime	4.951	11. (E)-Mannose-TFA-oxime	6.016
4. (E)-Arabinose-TFA-oxime	5.029	12. (E)-Galactose-TFA-oxime	6.147
5. (Z)-Rhamnose-TFA-oxime	5.044	13. (E)-Glucose-TFA-oxime	6.209
6. (Z)-Fucose-TFA-oxime	5.208	14. (Z)-Mannose-TFA-oxime	6.364
7. (Z)-Ribose-TFA-oxime	5.372	15. (Z)-Glucose-TFA-oxime	6.501
8. (E)-Xylose-TFA-oxime	5.545	16. (Z)-Galactose-TFA-oxime	6.709

Column Rtx-225, 30 m, 0.25 mm ID, 0.25 µm (cat.# 14023)
Standard/Sample Sugar TFA oximes
Diluent: Ethyl acetate
Conc.: 1-5 mg of starting material
Injection
 Inj. Vol.: 1 µL split (split ratio 400:1)
 Liner: Topaz 4.0 mm ID Precision Inlet Liner w/ Wool (cat.# 23305)
 Inj. Temp.: 250 °C
Oven
 Oven Temp.: 80 °C (hold 0.5 min) to 175 °C at 15 °C/min
Carrier Gas He, constant flow
Flow Rate: 1.4 mL/min
Linear Velocity: 43.739 cm/sec @ 80 °C
Dead Time: 1.21 min @ 40 °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 mg of sugar was dissolved in 100 µL 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 µL of MBTFA (N-Methyl-bis(trifluoroacetamide)) was added to each sample and then heated at 70 °C for 30 min. Samples were diluted 1:100 in ethyl acetate.