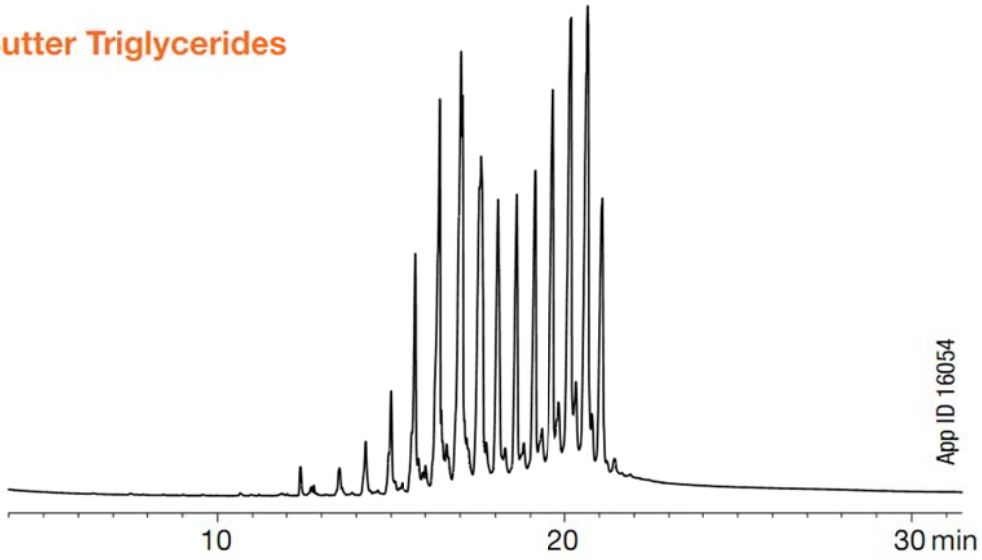
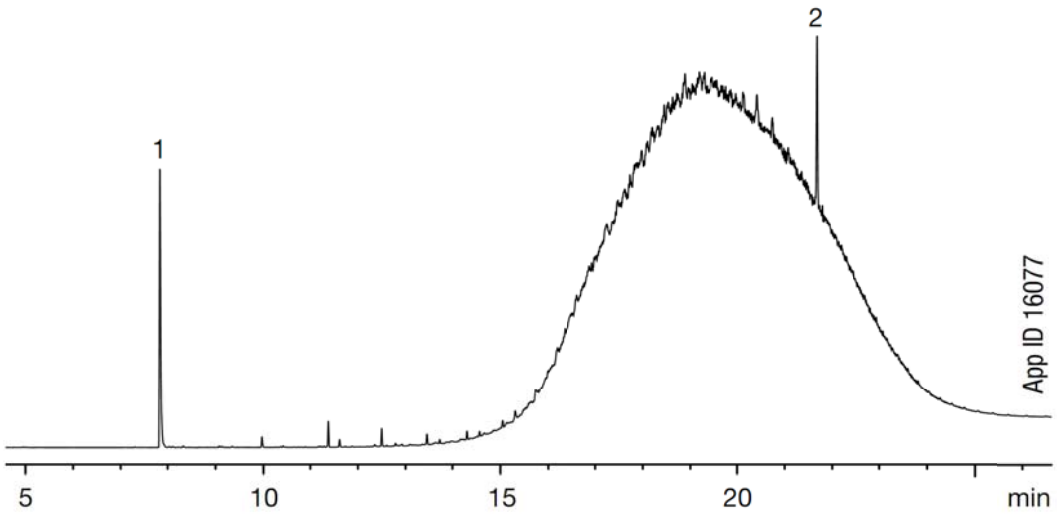
Примеры хроматограмм ZB-5HT Inferno

Butter Triglycerides



Column: Zebron ZB-5HT Inferno
Dimensions: 15 meter x 0.32 mm x 0.10 µm
Part No.: 7EM-G015-02
Injection: On-Column @ 103 °C, 2 µL
Carrier Gas: Helium @ 1.8 mL/min (constant flow)
Oven Program: 100 °C to 400 °C @ 14 °C/min for 10 min
Detector: FID @ 400 °C
Sample: Butter

Mineral Oil Using H-53 Conditions

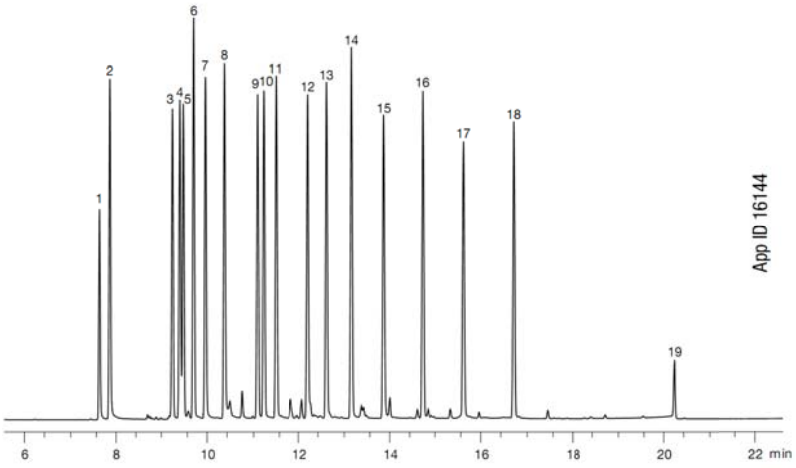


Column: Zebron ZB-5HT Inferno
Dimensions: 30 meter x 0.25 mm x 0.10 µm
Part No.: 7HG-G015-02
Injection: On-Column @ 53 °C, 0.1 µL
Oven Program: 50 °C for 6 min to 400 °C @ 20 °C/min for 15 min
Carrier Gas: Helium @ 1.3 mL/min (constant flow)
Detector: FID @ 415 °C
Sample: Fuel was 10 mg/mL in dichloromethane with 50 ppm markers
1. Decane (C10)
2. Tetracontane (C40)

Polybrominated Diphenyl Ethers (PBDEs)

Column: Zebron ZB-5HT Inferno™
Dimensions: 15 meter x 0.25 mm x 0.10 µm
Part No.: 7EG-G015-02
Injection: On-Column @ 73 °C, 0.5 µL
Carrier Gas: Helium @ 1.5 mL/min (constant flow)
Oven Program: 70 °C to 160 °C at 25 °C/min to 350 °C at 10 °C/min for 5 min
Detector: ECD @ 400 °C
Sample: Sample was 2.5 ppm in Isooctane

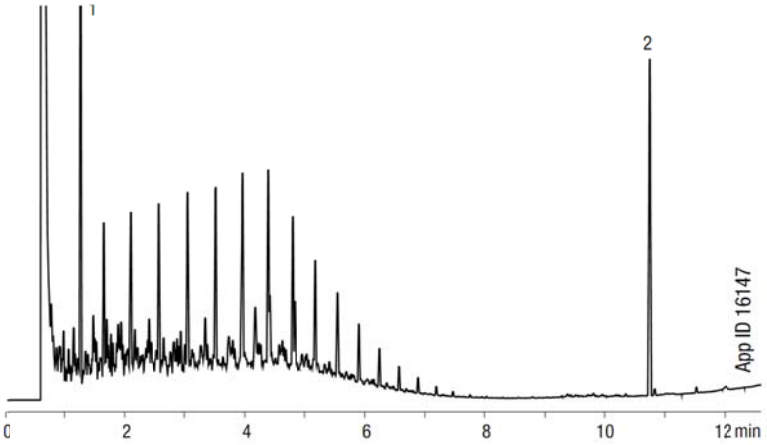
1. BDE-25
2. BDE-28
3. BDE-75
4. BDE-49
5. BDE-71
6. BDE-47
7. BDE-66
8. BDE-77
9. BDE-100
10. BDE-119
11. BDE-99
12. BDE-85
13. BDE-154
14. BDE-153
15. BDE-138
16. BDE-183
17. BDE-190
18. BDE-203
19. BDE-209



Fast H53 Analysis of Diesel Fuel

Column: Zebron ZB-5HT Inferno™
Dimensions: 15 meter x 0.32 mm x 0.10 µm
Part No.: 7EM-G015-02
Injection: On-Column @ 63 °C, 0.1 µL
Carrier Gas: Helium @ 2.7 mL/min (constant flow)
Oven Program: 60 °C to 375 °C @ 25 °C/min
Detector: FID @ 400 °C
Sample: Diesel Fuel was 200 ppm in Dichloromethane with Internal Standards at 50 ppm

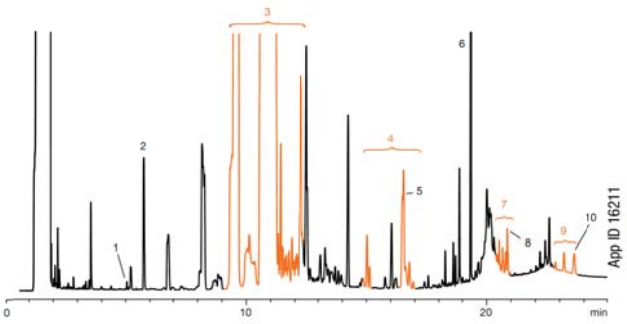
1. Decane (C10)
2. Tetracontane (C40)



Free and Total Glycerin in B-100 Biodiesel Methyl Esters: ASTM Method D 6584

Column: Zebron ZB-5HT Inferno
Dimensions: 15 meter x 0.32 mm x 0.10 µm
Part No.: 7EM-G015-02
Injection: On-Column @ 53 °C, 1 µL
Carrier Gas: Helium @ 3 mL/min (constant flow)
Oven Program: 50 °C for 1 min to 180 °C @ 15 °C/min to 230 °C @ 7 °C/min to 380 °C @ 30 °C/min for 10 min
Detector: FID @ 380 °C
Sample: A 2.0 m x 0.53 mm guard column was connected to the analytical column per ASTM method requirements

1. Glycerol
2. Butanetriol (IS 1)
3. Ester
4. Monoglycerides
5. 1-Monooleoyl-rac-glycerol
6. Tricarpin (IS 2)
7. Diglycerides
8. 1,3-Diolein
9. Triglycerides
10. Triolein



Free and Total Glycerin in Biodiesel: Method EN 14105

Column: Zebron ZB-5HT Inferno
Dimensions: 15 meter x 0.32 mm x 0.10 µm
Part No.: 7EM-G015-02
Injection: On-Column @ 50 °C, 1 µL
Carrier Gas: Helium @ 5.79 cm/sec (constant flow)
Oven Program: 50 °C for 1 min to 180 °C @ 15 °C/min to 230 °C @ 7 °C/min to 370 °C @ 10 °C/min (hold 5 min)
Detector: FID @ 380 °C
Sample: A 5 m x 0.53 mm guard column was connected to the analytical column

1. Glycerol
2. Butanetriol (IS 1)
3. Monoolein
4. Tricarpin (IS 2)
5. Diolein
6. Triolein