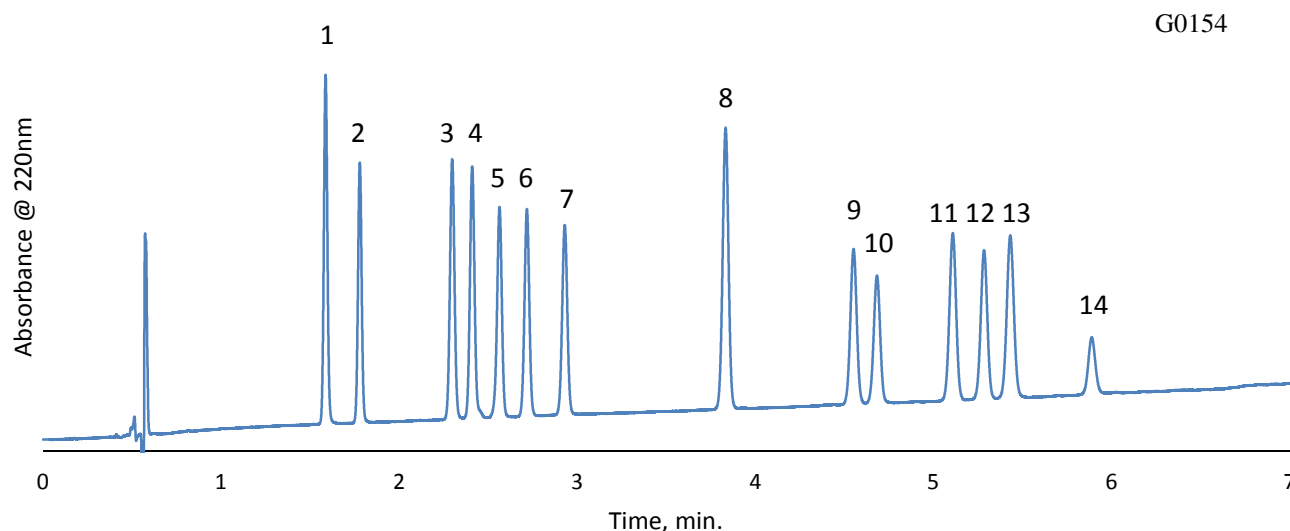


## Separation of 14 Cannabinoids on HALO C18



### TEST CONDITIONS:

Column: HALO 90Å, C18, 2.7  $\mu$ m, 3.0 x 150mm

Part Number: 92813-702

Mobile Phase:

A= Water/ 0.1% formic acid

B= Acetonitrile/ 0.085% formic acid

Gradient: 70-88%B in 6 min.

Flow Rate: 1.0 mL/min.

Initial Pressure: 350 bar

Temperature: 30°C

Detection: UV 220 nm, PDA

Injection Volume: 0.6  $\mu$ L

Dwell Volume: 0.471 mL

Sample Solvent: 75/25 methanol/ water

Response Time: 0.025 sec.

Data Rate: 100 Hz

LC System: Shimadzu Nexera X2

Flow Cell: 1  $\mu$ L

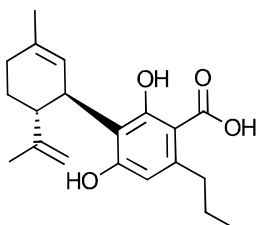
### PEAK IDENTITIES:

1. Cannabidivarinic acid (CBDVA)
2. Cannabidvarin (CBDV)
3. Cannabidiolic acid (CBDA)
4. Cannabigerolic acid (CBGA)
5. Cannabigerol (CBG)
6. Cannabidiol (CBD)
7. Tetrahydrocannabivarin (THCV)
8. Cannabinol (CBN)
9. delta-9- Tetrahydrocannabinol ( $\Delta$ 9-THC)
10. delta-8-Tetrahydrocannabinol ( $\Delta$ 8-THC)
11. Cannabicyclol (CBL)
12. Cannabichromene (CBC)
13. delta-9-Tetrahydrocannabinolic acid A (THCA)
14. Cannabichromenic acid (CBCA)

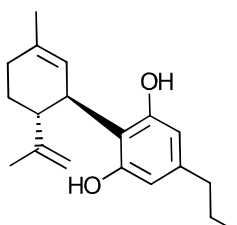
A HALO C18 column is used to separate a mixture of fourteen cannabinoids, showing fast results and high resolution within critical pairs. Cannabinoids are a class of chemical compounds primarily found in the marijuana plant. Many of these compounds have been found to provide medicinal benefits such as reduction in pain and inflammation.

STRUCTURES ON PAGE 2

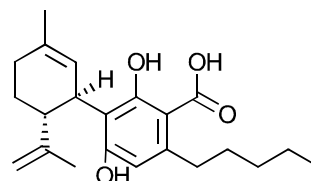
## Cannabinoid Structures



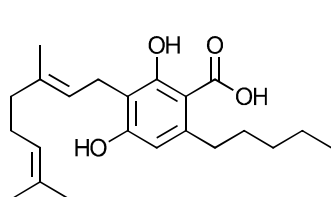
CBDVA



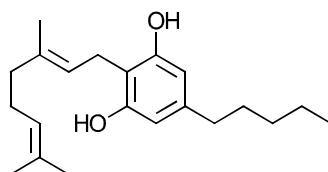
CBDV



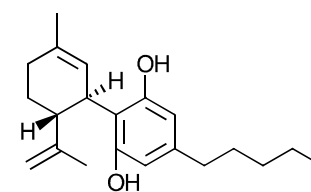
CBDA



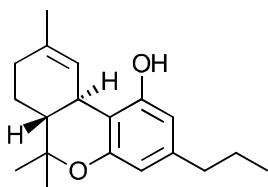
CBGA



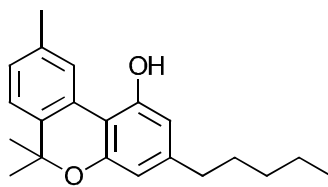
CBG



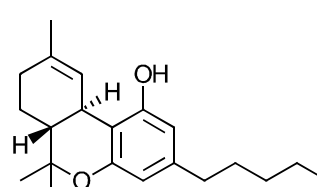
CBD



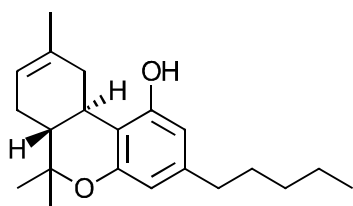
THCV



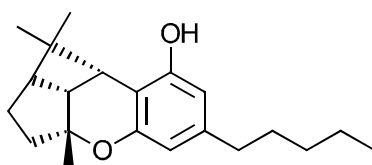
CBN



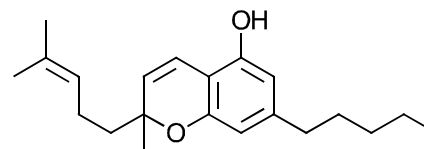
$\Delta^9$ -THC



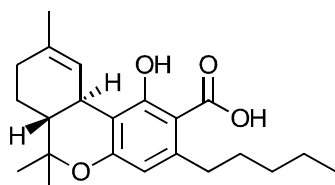
$\Delta^8$ -THC



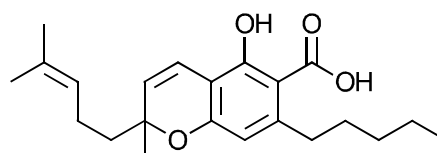
CBL



CBC



THCA



CBCA