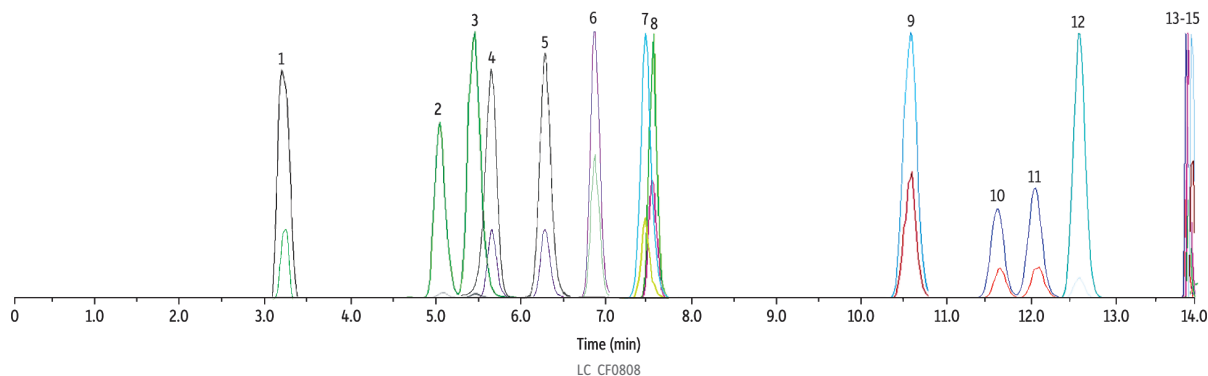


# Δ9-THC; Δ8-THC; Metabolites; and Cannabinoids Neutrals 9 in Whole Blood on Raptor FluoroPhenyl



Peaks	tr (min)	Conc. (ng/mL)	Precursor	Product 1	Product 2	Mode
1. CBDV	3.52	50	287.4	165.0	231.1	+
2. 11-OH-Δ8-THC	5.09	50	331.4	313.0	193.2	+
3. 11-OH-Δ9-THC	5.50	50	331.4	313.0	193.2	+
4. Δ8-THC-COOH	5.53	250	343.0	298.9	244.8	-
5. Δ9-THC-COOH	6.44	250	343.0	298.9	244.8	-
6. CBD	6.81	50	315.5	193.0	259.0	+
7. CBG	7.56	50	317.5	193.0	123.0	+
8. THCV	7.65	50	287.4	165.0	123.0	+
9. exo-THC	10.63	50	315.5	193.0	259.0	+
10. Δ8-THC	11.67	50	315.5	193.0	123.0	+
11. Δ9-THC	12.17	50	315.5	193.0	123.0	+
12. CBL	12.43	50	315.5	235.2	193.0	+
13. Δ10-THC	13.88	50	315.5	193.1	259.0	+
14. CBN	13.93	50	311.4	223.0	293.1	+
15. CBC	13.93	50	315.5	193.1	259.0	+

**Column** Raptor FluoroPhenyl (cat.# 9319A1E)  
**Dimensions:** 100 mm x 3.0 mm ID  
**Particle Size:** 2.7 μm  
**Pore Size:** 90 Å  
**Guard Column:** Raptor FluoroPhenyl EXP guard column cartridge 5 mm, 3.0 mm ID, 2.7 μm (cat.# 9319A0253)  
**Temp.:** 40 °C  
**Standard/Sample** Cannabinoids Neutrals 9 standard (cat.# 34132)  
 Δ8-Tetrahydrocannabinol (Δ8-THC) (cat.# 34090)  
 Δ9-Tetrahydrocannabinol (Δ9-THC) (cat.# 34067)  
 (±)11-nor-9-carboxy-Δ-9-THC (Δ9-THC-COOH) (cat.# 34068)  
 Other compounds obtained separately.  
**Diluent:** 50:50 Methanol:water, both with 0.1% formic acid  
**Inj. Vol.:** 10 μL  
**Mobile Phase**  
**A:** Water, 0.1% formic acid  
**B:** Methanol, 0.1% formic acid

Time (min)	Flow (mL/min)	%A	%B
0.00	0.8	36	64
6.50	0.8	36	64
6.60	0.8	32	68
13.00	0.8	32	68
13.10	0.8	0	100
14.00	0.8	0	100
14.10	0.8	36	64
16.00	0.8	36	64

**Max Pressure:** 440 bar

**Detector** SCIEX 4500  
**Ion Source:** Electrospray  
**Ion Mode:** ESI+/ESI-

**Sample Preparation** 500 μL of whole blood was transferred to a 15 mL glass test tube. 50 μL of internal standard and 50 μL of control material were transferred to the test tube and vortexed. 500 μL of HPLC grade water was added to each sample and vortexed. 100 μL of 1N HCl was added to each sample and vortexed. 2.5 mL of 80:20 hexanes:ethyl acetate was added to each sample and vortexed until visibly combined. Samples were centrifuged at 4200 rpm for 15 minutes. The top layer was transferred to a new glass test tube and dried down under nitrogen. Samples were reconstituted with 100 μL of 50:50 methanol:water, both containing 0.1% formic acid, and vortexed. Samples were transferred to 2 mL screw-thread vials (cat.# 21143) with glass inserts (cat.# 21776) and capped with short-cap, screw-vial closures (cat.# 24498).