

Customer Name : Kanabo
Analyzed by : Shahar Saruberg and Yael Hartal

CNB's and Terpenes by HPLC and GCMS

CNBs by UV Detector:

CNBs [%w/w]	Extracts [%w/w]	
	MA3-39-1	MA3-42-1
CBDVA	NA	NA
CBDV	0.4	0.2
CBDA	NA	NA
CBG	3.98	1.14
CBD	55.46	0.31
THCV	NA	0.33
CBGA	NA	NA
CBN	NA	2.06
THC	<LOQ	63.65
dB-THC	NA	NA
CBL	NA	NA
CBC	<LOQ	0.25
THCA	n.a.	n.a.
CBCA	n.a.	0.69
Cannabicitran	0.59	0.49
CBNA	NA	0.16
CBCV	NA	NA
Total THC	<LOQ	63.65
Total CBD	55.46	0.31
Total CBN	NA	2.06

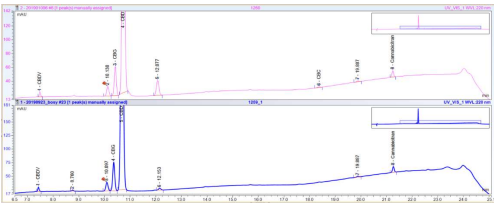
CNBs [ug/mL]	Ethanolic solutions [ug/mL]	
	MA3-39-2	MA3-42-2
CBDVA	NA	NA
CBDV	2.42	<LOQ
CBDA	NA	NA
CBG	23.05	3.58
CBD	332.24	1.42
THCV	NA	1.11
CBGA	NA	NA
CBN	NA	6.39
THC	<LOQ	203.1
dB-THC	NA	NA
CBL	NA	NA
CBC	<LOQ	<LOQ
THCA	NA	NA
CBCA	NA	2.02
Cannabicitran	3.69	1.85
CBNA	NA	NA
CBCV	NA	NA
Total THC	<LOQ	203.1
Total CBD	332.24	1.42
Total CBN	NA	6.39

*LOQ= 0.1%w/w

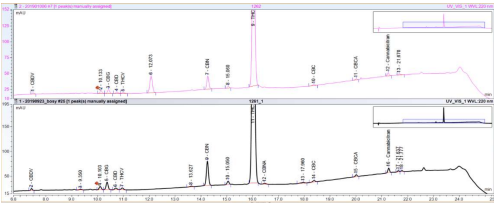
*LOQ= 1ug/mL

Two different samples were received in the lab - extracts are measured by weight (%w/w) and solutions are measured by w/v (ug/mL).

MA3-39-1 (pink) & MA3-39-2 (blue) HPLC Chromatogram



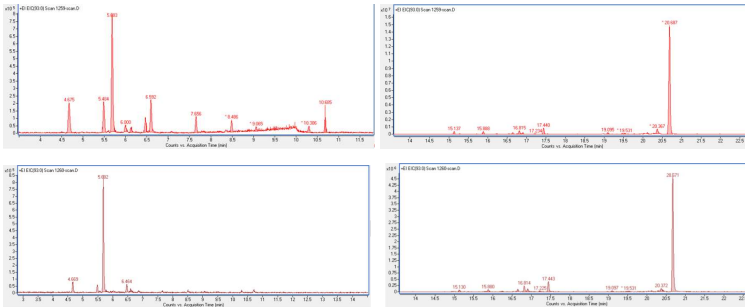
MA3-42-1 (pink) & MA3-42-2 (black) HPLC Chromatogram



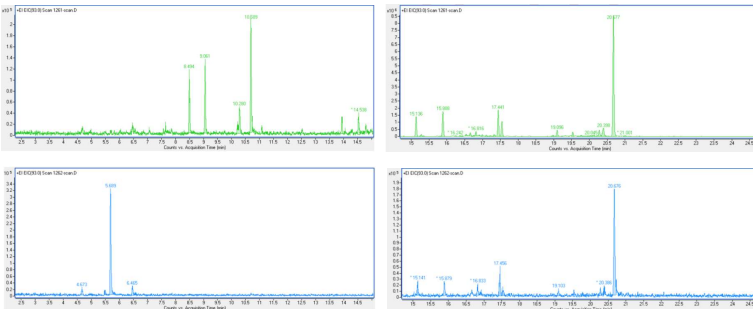
Terpenes by MS Detector:

Terpenes [%w/w]	MA3-39-1		MA3-39-2		MA3-42-1		MA3-42-2	
	LOQ Value [%w/w]	LOQ Value [%w/w]	LOQ Value [%w/w]	LOQ Value [%w/w]	LOQ Value [%w/w]	LOQ Value [%w/w]	LOQ Value [%w/w]	
a-Pinene	<LOQ	5.710E-02	<LOQ	5.710E-05	<LOQ	5.710E-02	<LOQ	5.710E-05
Camphene	<LOQ	1.641E-02	<LOQ	1.641E-05	6.008E-04	1.641E-02	<LOQ	1.641E-05
b-Pinene	<LOQ	5.186E-02	<LOQ	5.186E-05	n.a	5.186E-02	<LOQ	5.186E-05
Sabinene	n.a	1.493E-02	n.a	1.493E-05	n.a	1.493E-02	n.a	1.493E-05
b-Myrcene	1.543E-01	6.452E-02	0.0003	6.452E-05	<LOQ	6.452E-02	3.500E-04	6.452E-05
d3-Carene	n.a	1.524E-02	n.a	1.524E-05	n.a	1.524E-02	n.a	1.524E-05
a-Terpinene	<LOQ	5.335E-02	n.a	5.335E-05	<LOQ	5.335E-02	n.a	5.335E-05
Limonene	<LOQ	4.339E-02	<LOQ	4.339E-05	<LOQ	4.339E-02	<LOQ	4.339E-05
p-cymene	<LOQ	1.379E-02	<LOQ	1.379E-05	<LOQ	1.379E-02	<LOQ	1.379E-05
cis-ocimene	4.775E-02	1.955E-02	<LOQ	1.955E-05	<LOQ	1.955E-02	<LOQ	1.955E-05
Eucalyptol	<LOQ	1.569E-02	<LOQ	1.569E-05	<LOQ	1.569E-02	<LOQ	1.569E-05
g-Terpinene	<LOQ	1.500E-02	<LOQ	1.500E-05	<LOQ	1.500E-02	<LOQ	1.500E-05
trans-ocimene	<LOQ	3.549E-02	<LOQ	3.549E-05	<LOQ	3.549E-02	<LOQ	3.549E-05
Fenchone	<LOQ	1.418E-02	<LOQ	1.418E-05	n.a	1.418E-02	n.a	1.418E-05
Terpinolene	<LOQ	4.844E-02	<LOQ	4.844E-05	<LOQ	4.844E-02	<LOQ	4.844E-05
Linalool	<LOQ	5.215E-02	<LOQ	5.215E-05	5.885E-02	5.215E-02	<LOQ	5.215E-05
Fenchol	4.309E-02	2.563E-02	<LOQ	2.563E-05	1.207E-01	2.563E-02	<LOQ	2.563E-05
Camphor	<LOQ	3.018E-02	n.a	3.018E-05	<LOQ	3.018E-02	n.a	3.018E-05
Isopulegol	n.a	1.724E-02	n.a	1.724E-05	n.a	1.724E-02	n.a	1.724E-05
Borneol	1.424E-01	3.992E-02	0.00006	3.992E-05	7.954E-02	3.992E-02	<LOQ	3.992E-05
Isoborneol	n.a	3.218E-02	n.a	3.218E-05	n.a	3.218E-02	n.a	3.218E-05
Menthol	3.340E-01	3.375E-02	0.0001	3.375E-05	n.a	3.375E-02	n.a	3.375E-05
a-Terpineol	5.733E-02	3.825E-02	0.00003	3.825E-05	1.358E-01	3.825E-02	4.000E-05	3.825E-05
Geraniol	n.a	2.088E-02	n.a	2.088E-05	n.a	2.088E-02	n.a	2.088E-05
Nerol	n.a	1.466E-02	n.a	1.466E-05	n.a	1.466E-02	n.a	1.466E-05
Pulegone	n.a	2.215E-02	n.a	2.215E-05	n.a	2.215E-02	n.a	2.215E-05
b-Caryophyllene	3.693E-01	1.301E-01	0.0002	1.301E-04	1.266E+00	1.301E-01	3.500E-04	1.301E-04
trans-b-Farnesene	2.165E-02	2.075E-02	<LOQ	2.075E-05	3.434E-02	2.075E-02	<LOQ	2.075E-05
a-Humulene	1.663E-01	1.132E-01	<LOQ	1.132E-04	5.309E-01	1.132E-01	2.000E-04	1.132E-04
Ledene	<LOQ	1.293E-02	n.a	1.293E-05	<LOQ	1.293E-02	<LOQ	1.293E-05
Valencene	n.a	1.378E-02	n.a	1.378E-05	5.036E-02	1.378E-02	2.000E-05	1.378E-05
trans-Nerolidol	3.574E-02	1.566E-02	n.a	1.566E-05	1.135E-01	1.566E-02	n.a	1.566E-05
Caryophyllene-oxide	6.585E-02	2.262E-02	<LOQ	2.262E-05	1.069E-01	2.262E-02	<LOQ	2.262E-05
Cedrol	n.a	3.745E-02	n.a	3.745E-05	n.a	3.745E-02	n.a	3.745E-05
Guaiol	3.539E-01	3.435E-02	0.00005	3.435E-05	6.741E-01	3.435E-02	6.000E-05	3.435E-05
a-bisabolol	2.505E+01	8.944E-02	0.00345	8.944E-05	1.004E+01	8.944E-02	6.500E-04	8.944E-05
Cis-Nerolidol	n.a	1.696E-02	n.a	1.696E-05	n.a	1.696E-02	n.a	1.696E-05
Sum	26.84362141		0.00419		13.207		0.002	

Chromatograms of Scan for samples MA3-39-1 (Red) and MA3-39-2 (Brown)



Chromatograms of Scan for samples MA3-42-1 (Green) and MA3-42-2 (Blue)



In both cases, Myrcene (R.T=5.8) was higher in the Ethanol solution comparing with the original extract.

Statements:

- * It is forbidden to copy parts of this report without Cannabisoul's Laboratory approval.
- **The results represent the tested sample only, as received by the Laboratory.
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