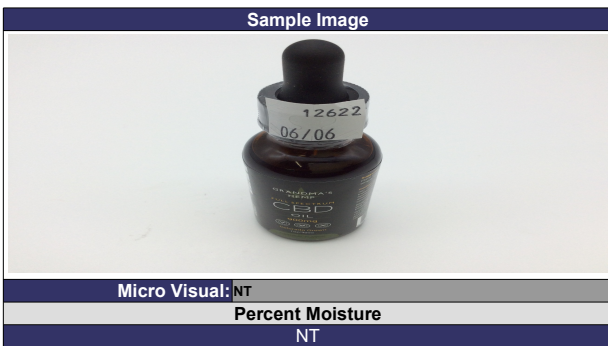
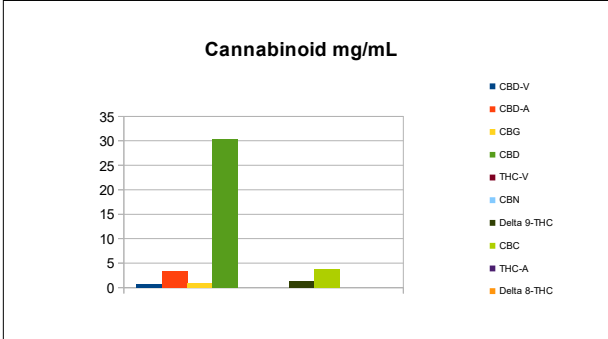
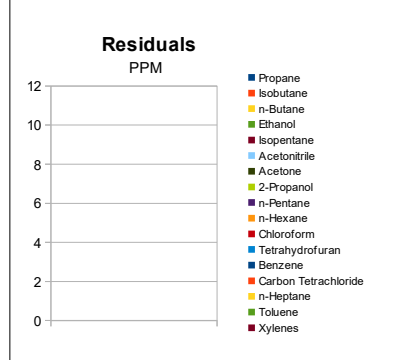


Sample Information			
Sample Identification	Grandma's Hemp Full Spectrum CBD Oil 900mg		
Laboratory Number	2019012622		
Batch Number	686001		
Matrix	Tincture		
Analyzed Date	06/06/19		
Extraction Date	06/06/19		
Cannabinoid (HPLC)	mg/mL	mg/Bottle	%
Compound			
CBD-V	0.77	23.12	0.08%
CBD-A	3.32	99.51	0.34%
CBG	0.94	28.29	0.10%
CBD	30.34	910.20	3.09%
THC-V	ND	ND	ND
CBN	ND	ND	ND
Delta 9-THC	1.31	39.24	0.13%
CBC	3.86	115.87	0.39%
THC-A	ND	ND	ND
Delta 8-THC	ND	ND	ND
Cannabinoids Total			
Max Active THC	1.31	39.24	0.13%
Max Active CBD	33.26	997.77	3.39%
T. Active Cannabinoids	37.22	1116.72	3.79%
Total Cannabinoids	40.54	1216.22	4.13%

Max Active Ratios			
25.4:1 CBD to THC			
0.0:1 THC to CBD			



RS (GCMS-MS)	PPM	RL
Compound		
Propane	NT	5.0
Isobutane	NT	5.0
n-Butane	NT	5.0
Ethanol	NT	5.0
Isopentane	NT	5.0
Acetonitrile	NT	5.0
Acetone	NT	50.0
2-Propanol	NT	5.0
n-Pentane	NT	5.0
n-Hexane	NT	5.0
Chloroform	NT	5.0
Tetrahydrofuran	NT	5.0
Benzene	NT	5.0
Carbon Tetrachloride	NT	5.0
n-Heptane	NT	5.0
Toluene	NT	5.0
Xylenes	NT	10.0



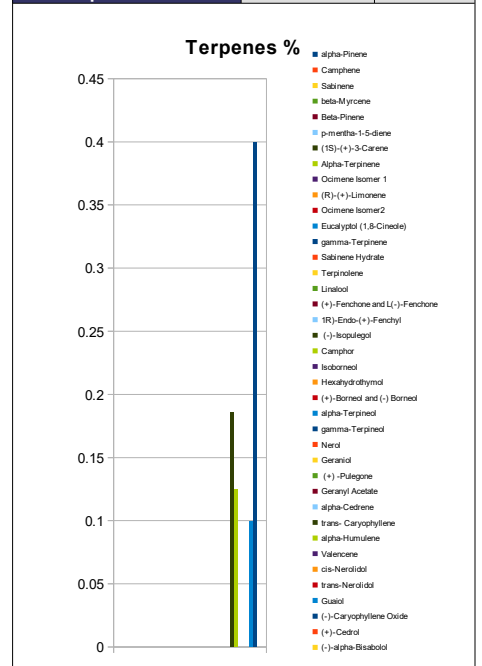
mL/Bottle	30
mg THC/Bottle	39.24
mg CBD/Bottle	910.2
(mg) total cannabinoids/bottle	1216.22

Metals	PPM	RL
Compound		
Lead	NT	0.018
Arsenic	NT	0.007
Cadmium	NT	0.004
Mercury	NT	0.020

Microbial	CFU/g
Compound	
Enterobacteriaceae	NT
Coliform	NT
Ecoli	NT
Aerobic	NT
Yeast	NT
Mold	NT



Terpene (GC-MS)	mg/mL	mg/Bottle
Compound		
alpha-Pinene	ND	ND
Camphene	ND	ND
Sabinene	ND	ND
beta-Myrcene	ND	ND
Beta-Pinene	ND	ND
p-mentha-1-5-diene	ND	ND
(1S)-(+)-3-Carene	ND	ND
Alpha-Terpinene	ND	ND
Ocimene Isomer 1	ND	ND
(R)-(+)-Limonene	ND	ND
Ocimene Isomer2	ND	ND
Eucalyptol (1,8-Cineole)	ND	ND
gamma-Terpinene	ND	ND
Sabinene Hydrate	ND	ND
Terpinolene	ND	ND
Linalool	ND	ND
(+)-Fenchone and L(-)-Fenchone	ND	ND
1R)-Endo-(+)-Fenchyl	ND	ND
(-)-Isopulegol	ND	ND
Camphor	ND	ND
Isoborneol	ND	ND
Hexahydrothymol	ND	ND
(+)-Borneol and (-) Borneol	ND	ND
alpha-Terpineol	ND	ND
gamma-Terpineol	ND	ND
Nerol	ND	ND
Geraniol	ND	ND
(+) -Pulegone	ND	ND
Geranyl Acetate	ND	ND
alpha-Cedrene	ND	ND
trans- Caryophyllene	0.19	5.56
alpha-Humulene	0.13	3.75
Valencene	ND	ND
cis-Nerolidol	ND	ND
trans-Nerolidol	ND	ND
Guaiol	0.1	2.99
(-)-Caryophyllene Oxide	0.4	11.98
(+)-Cedrol	ND	ND
(-)-alpha-Bisabolol	ND	ND
Total Terpenes	0.81	24.28



Chemist: JG
Report Expires: 09/04/19

RL=Reporting Limit
NA=Not Applicable
NT=Not Tested
ND=Non Detected
TNTC=Too Numerous to Count