

# **Combined Ambient Ionization Mass Spectrometric and Chemometric Approach for the Differentiation of Hemp and Marijuana Varieties of *Cannabis sativa***

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**Supporting Information: *Cannabis sativa* Sample/Product Information**

**Table S1.** Information on the analyzed hemp samples including *C. sativa* variety, cultivar/strain, vendor, vendor abbreviation, and batch number.

<b><i>C. sativa</i> Variety</b>	<b>Cultivar/Strain</b>	<b>Vendor*</b>	<b>Batch Number</b>
Hemp	Acapulco Gold	CBD Hemp Direct	1912NVC2044-11643
Hemp	AVW1	Plain Jane (OR)	-
Hemp	Berry Blossom	Plain Jane (OR)	-
Hemp	Casino Cookies	CBD Hemp Direct	001CC
Hemp	Casino Cookies #2	CBD Hemp Direct	1909NVC1598-8477
Hemp	Cat's Meow	Plain Jane (OR)	-
Hemp	Charlotte's Sauce #2	CBD Hemp Direct	1908NVC1326-6578
Hemp	Desert Snow CBG	CBD Hemp Direct	1910NVC1598-8476
Hemp	Durban Potion #2	CBD Hemp Direct	002DP
Hemp	Early Blossom	Plain Jane (OR)	-
Hemp	Elektra	Berkshire CBD	NAB021900012
Hemp	Elektra	Plain Jane (CA)	-
Hemp	GSC	CBD Hemp Direct	-
Hemp	Harle Tsu	Plain Jane (OR)	-
Hemp	Hemp World Haze	CBD Hemp Direct	1909NVC1403-7044
Hemp	Honolulu Haze #2	CBD Hemp Direct	1909NVC1403-7044
Hemp	Jack Herer	Plain Jane (OR)	-
Hemp	Jazzy CBD #2	CBD Hemp Direct	002JZ
Hemp	Jazzy CBG	CBD Hemp Direct	1910NVC1598-8479
Hemp	Juicy Fruit	CBD Hemp Direct	001JF
Hemp	Juicy Fruit #2	CBD Hemp Direct	1909NVC1598-8478
Hemp	Lifter	Berkshire CBD	NAB021900010
Hemp	Lifter	Plain Jane (CA)	-
Hemp	Paradise OG	CBD Hemp Direct	001POG
Hemp	Pineapple Tsunami	Plain Jane (OR)	-
Hemp	Skywalker	Plain Jane (OR)	-
Hemp	Special Sauce	Berkshire CBD	NAB02190003
Hemp	Special Sauce	Plain Jane (CA)	-
Hemp	Sour Space Candy	Berkshire CBD	NAB02190005
Hemp	Stormi D	Plain Jane (OR)	-
Hemp	Sunset Rd. Sherbert	CBD Hemp Direct	001SR
Hemp	Sunset Rd. Sherbert #2	CBD Hemp Direct	1909NVC1598-8480
Hemp	Suver Haze	Berkshire CBD	NAB021900011
Hemp	Suver Haze	Plain Jane (CA)	-
Hemp	Swiss Harlequin	Plain Jane (OR)	-
Hemp	T-1	Plain Jane (OR)	-
Hemp	Tangie	CBD Hemp Direct	001TG
Hemp	Trap Star	CBD Hemp Direct	1908NVC1326-6579
Hemp	Trophy Wife	CBD Hemp Direct	001TW
Hemp	Vegas Lights #2	CBD Hemp Direct	1910NVC1598-8481
Hemp	Wife Reserve	Plain Jane (OR)	-

\*Plaine Jane products were obtained from California (CA) or Oregon (OR)

**Table S2.** Information on the analyzed marijuana samples including *C. sativa* variety, sample name, supplier, and batch number.

<b><i>C. sativa</i> Variety</b>	<b>Sample Name</b>	<b>Supplier</b>	<b>Batch Number</b>
Marijuana	A0001	NIST	-
Marijuana	A0007	NIST	-
Marijuana	A0009	NIST	-
Marijuana	A0027	NIST	-
Marijuana	A0076	NIST	-
Marijuana	A0096	NIST	-
Marijuana	A0102	NIST	-
Marijuana	A0115	NIST	-
Marijuana	High THC/Low CBD	NIDA	Barrel # 1291
Marijuana	Low THC/Very High CBD	NIDA	Barrel # 1371
Marijuana	Medium THC/Medium CBD	NIDA	Blended Batch
Marijuana	Very High THC/Low CBD	NIDA	Barrel # 1449F

**Table S3.** Information on the recreational marijuana samples including *C. sativa* variety, cultivar/strain, vendor, brand, strain-type (if applicable), additional information, and batch number (when available).

<b><i>C. sativa</i> Variety</b>	<b>Cultivar/Strain</b>	<b>Vendor</b>	<b>Brand</b>	<b>Strain-Type</b>	<b>Additional Information</b>	<b>Batch Number</b>
Marijuana	Airplane Glue #3	Garden Remedies	Garden Remedies	Hybrid	Special Stash Flower	B-1412-F2-1.5.22-04118
Marijuana	APEX	Garden Remedies	Garden Remedies	-	Rollers Series Flower	B-1209-F9-06123-7.14.21
Marijuana	Big D Energy	Garden Remedies	Garden Remedies	Sativa	Growers Reserve Flower	B-1355-F5-11.9.21-04014
Marijuana	Cease and Desist	Garden Remedies	Garden Remedies	Hybrid	Growers Reserve Flower	B-1430-F9-1.17.22-08006
Marijuana	Citrus Rain	Garden Remedies	Garden Remedies	Hybrid	Growers Reserve Flower	B-1337-F2-11.1.21-04607
Marijuana	Crockett's Haze	Garden Remedies	Green Harbor	-	-	CRHZFL222301/H03
Marijuana	Deadfire OG	Garden Remedies	Garden Remedies	Hybrid	Growers Reserve Flower	-
Marijuana	Deadhead OG	Garden Remedies	Garden Remedies	Hybrid	Growers Reserve Flower	B-1407-F3-12.28.21-04399
Marijuana	Dr. Lime #9	Garden Remedies	Garden Remedies	Indica	Growers Reserve Flower	B-1408-F3-12.28.21-04396
Marijuana	Dr. Lime #10	Garden Remedies	Garden Remedies	Sativa	Growers Reserve Flower	B-1260-F11-06295-8.17.21
Marijuana	Flavah-ICE	Garden Remedies	Garden Remedies	Sativa	Growers Reserve Flower	B-1452-F10-H-C-1.31.22-08209
Marijuana	Grape Diamonds	Garden Remedies	Nature's Heritage	Hybrid	Sativa-dominant	Grape Diamonds H2.8.22 F8 B4 T3
Marijuana	Inzane in the Membrane	Garden Remedies	Garden Remedies	Sativa-dominant	Premium Flower	B-1258-F11-06286-8.16.21
Marijuana	Lemon Peels	Garden Remedies	Garden Remedies	-	Growers Reserve Flower	B-1239-F10-06207-7.26.21
Marijuana	Lilac Diesel	Garden Remedies	Solar Therapeutics	Hybrid	-	2021-12-18-LD-H18-2
Marijuana	Project Z	Garden Remedies	RiverRun Gardens	Sativa	-	-
Marijuana	Rainmaker	Garden Remedies	Garden Remedies	Hybrid	Growers Reserve Flower	B-1318-F8-10.13.21-06704
Marijuana	Sherb Valley	Garden Remedies	The Heirloom Collective	-	-	F2H11SHER101921
Marijuana	Snowdog	Garden Remedies	Berkshire Roots	Hybrid	-	-
Marijuana	Tropical Runtz	Garden Remedies	RiverRun Gardens	Sativa	-	-
Marijuana	Wonka Bars	Garden Remedies	Nature's Heritage	Indica	-	Wonka Bars #7 H2.1.22 F11 B1 T3