

## Supporting Information

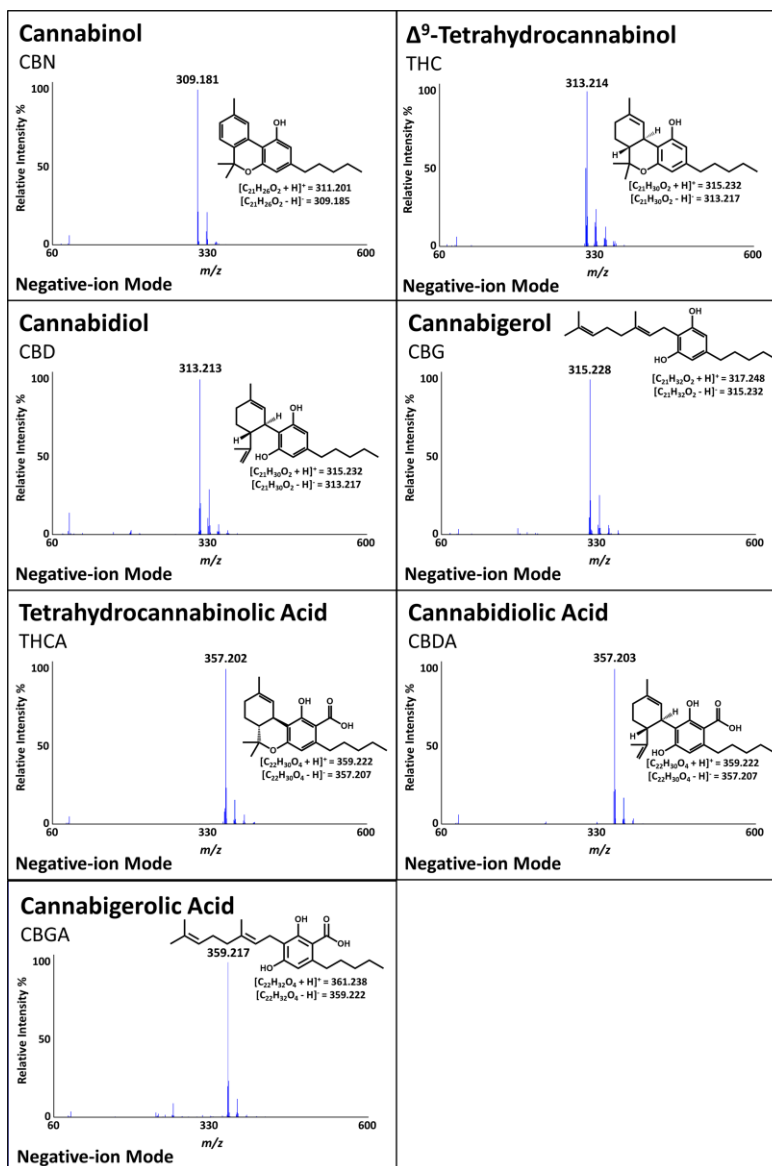
# **DART-HRMS as a Triage Approach for the Rapid Analysis of Cannabinoid-infused Edible Matrices, Personal-care Products and *Cannabis sativa* Hemp Plant Material**

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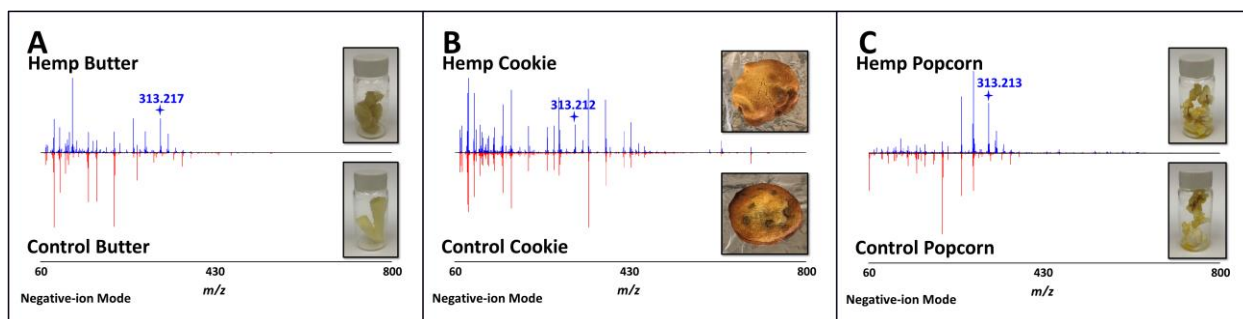
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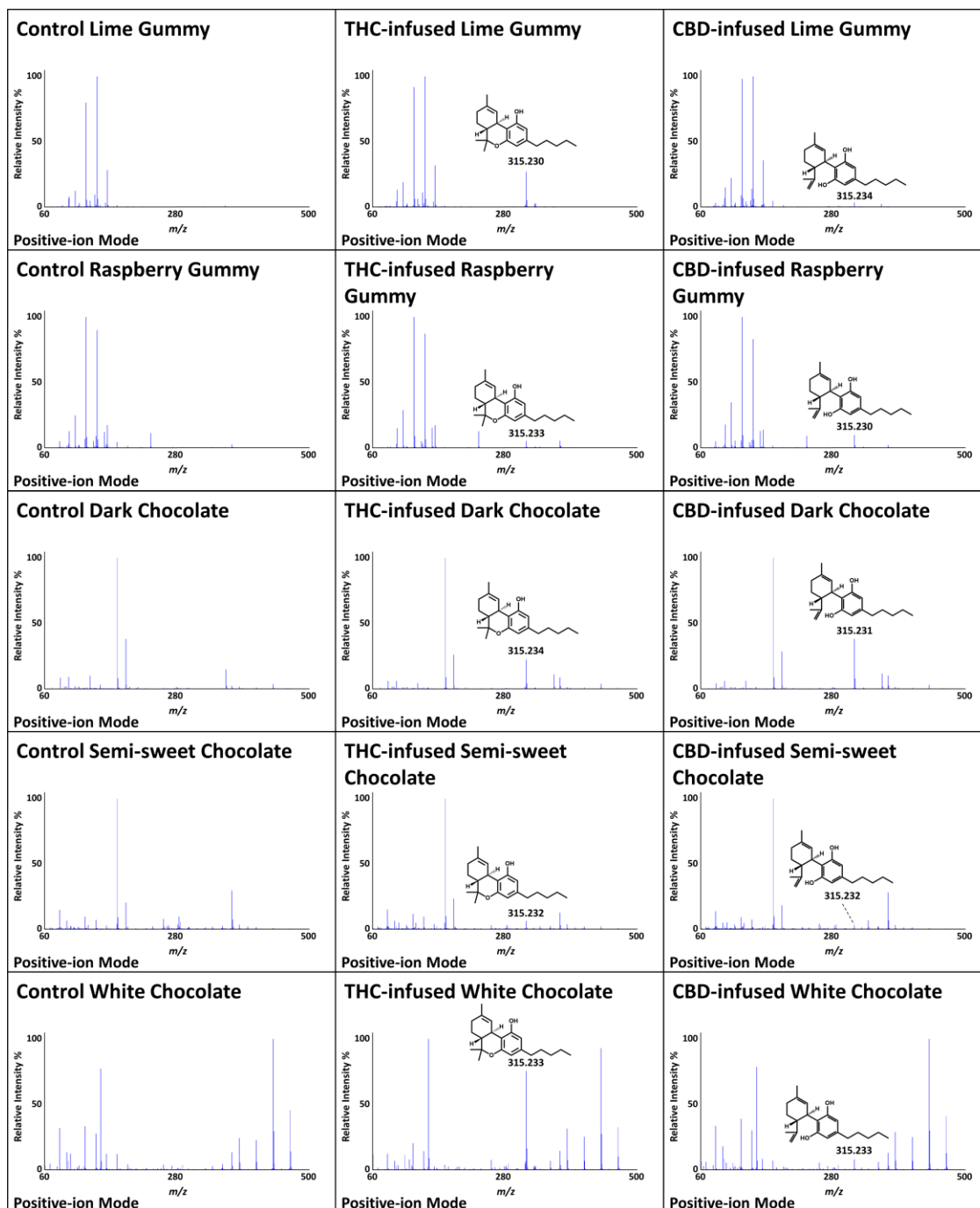
This document contains: (1) DART mass spectra (collected in negative-ion mode), structures,  $[M+H]^+$  chemical formulas,  $[M-H]^-$  chemical formulas, and corresponding masses of cannabinoids reported to be in *Cannabis sativa* plant material, plant-derived products, and edibles; (2) Head-to-tail plot renderings of DART mass spectra acquired under soft ionization conditions for control and hemp edibles prepared in-house; (3) DART mass spectra of control, THC-infused, and CBD-infused gummies and chocolates prepared in-house and analyzed in positive-ion mode under soft ionization conditions; (4) Head-to-tail plot rendering of DART mass spectra obtained when analyzing blank and cannabinoid-infused gummy bear matrices; and (5) DART mass spectra of commercial cosmetics manufactured with no *Cannabis sativa* ingredients or which contain hempseed oil.



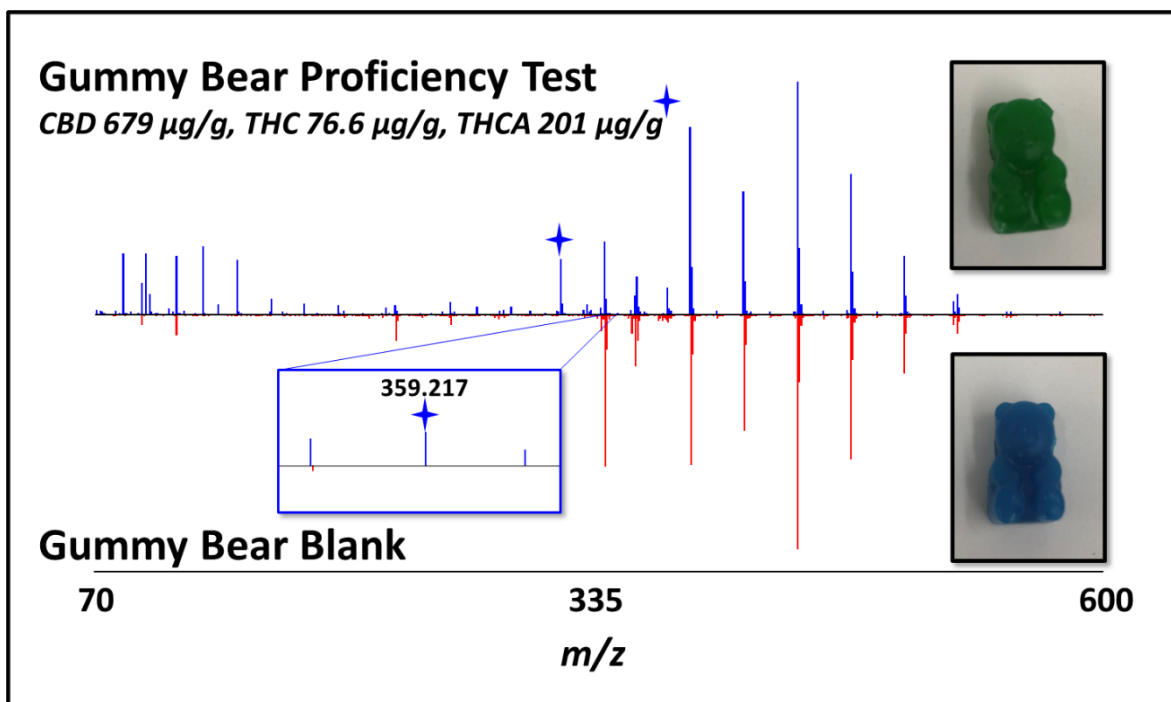
**Figure S1.** DART mass spectra (collected in negative-ion mode), structures,  $[M+H]^+$  chemical formulas,  $[M-H]^-$  chemical formulas, and corresponding masses of cannabinoids reported to be in *Cannabis sativa* plant material, plant-derived products, and edibles.



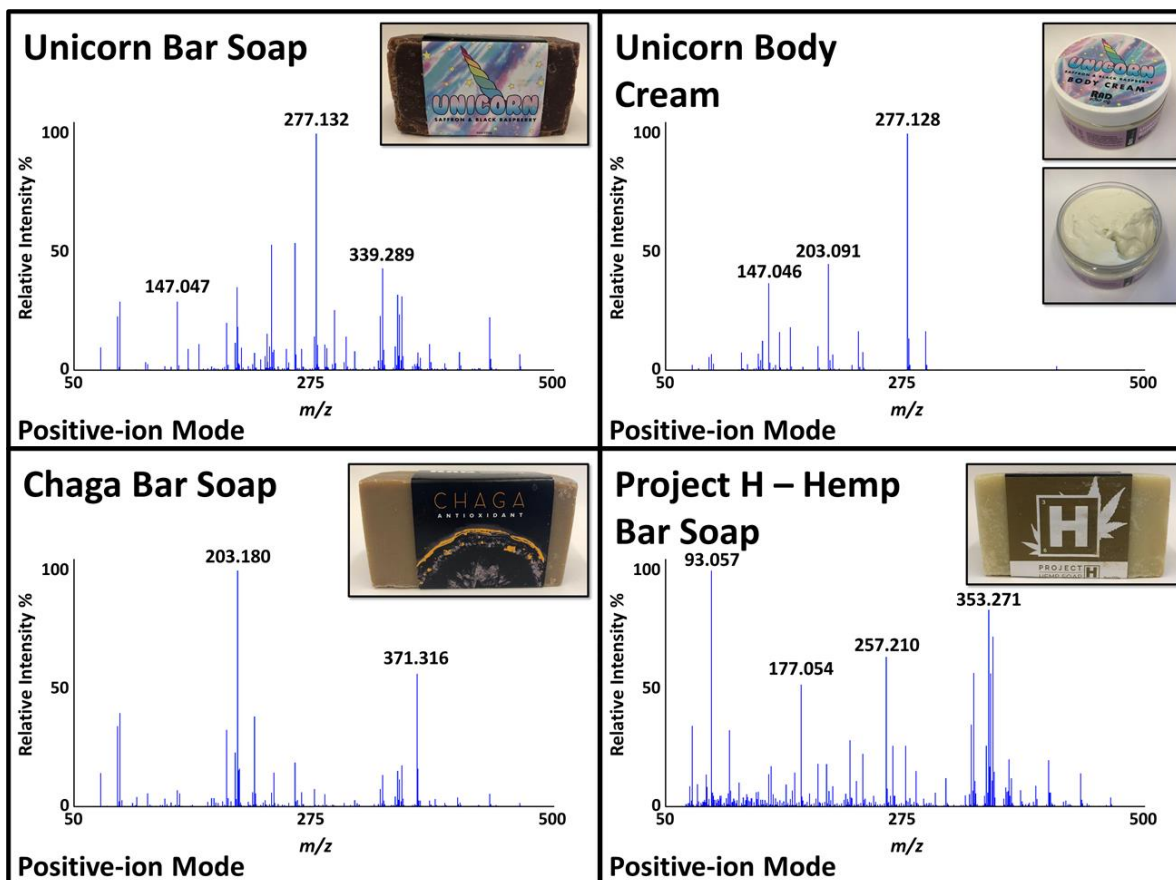
**Figure S2.** Head-to-tail plot renderings of DART mass spectra acquired under soft ionization conditions (-20 V) for control (red) and hemp (blue) edibles prepared in-house. Edibles shown include butter (Panel A), cookies (Panel B) and popcorn (Panel C).



**Figure S3.** DART mass spectra of control (left), THC-infused (middle), and CBD-infused (right) gummies and chocolates prepared in-house and analyzed in positive-ion mode under soft ionization conditions (20 V). The high-resolution masses and molecular structures of the cannabinoids infused into the products are also displayed.



**Figure S4.** Head-to-tail plot rendering of DART mass spectra obtained from analysis of blank and cannabinoid-infused gummy bear matrices. The zoomed-in portion in the inset reveals more readily the presence of the THCA at  $m/z$  359 in the gummy bear proficiency test (top; blue), and the absence of this peak in the blank sample (bottom; red).



**Figure S5.** DART mass spectra of commercial cosmetics manufactured with no *Cannabis sativa* ingredients (top) or which contain hempseed oil (bottom). Images of the corresponding products are shown in the insets.