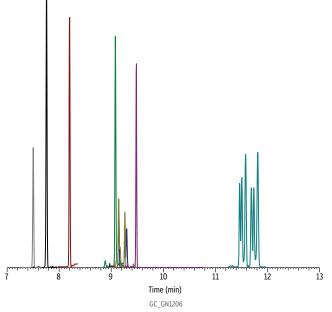
- · GC amenable pesticides regulated by California (2019).
- · Quantify pesticides in cannabis edibles at low ng/g concentrations.



Peaks 1. Atrazine-d5 2. Atrazine-d5 3. Quintozene 4. Quintozene 5. Methyl parathion 6. Methyl parathion 7. Captan 8. Captan 9. <i>trans</i> -Chlordane 10. <i>trans</i> -Chlordane 11. <i>cis</i> -Chlordane 12. <i>cis</i> -Chlordane 13. Chlorfenapyr 14. Chlorfenapyr 15. Cyfluthrin 16. Cyfluthrin 17. Cypermethrin 18. Cypermethrin	tx (min) 7.5 7.8 7.8 7.8 8.2 9.1 9.1 9.1 9.1 9.1 9.3 9.3 9.5 9.5 11.5 11.5 11.7 11.7	Polarity Positive Positive Positive Positive Positive Positive Positive Positive Positive Positive Positive Positive Positive Positive Positive	Precursor lon 220.0 294.9 236.8 263.0 263.0 184.0 184.0 184.0 271.9 372.9 372.9 271.9 271.9 271.9 271.9 271.9 163.0 199.1 163.0 189.1	Product lon 58.0 127.0 236.9 118.9 109.0 79.0 149.1 134.1 237.0 265.9 237.0 265.9 237.0 227.1 31.1 127.1 170.1 127.1 152.1	Transition Type Quantifier Qualifier	Column Sample Diluent: Conc.: Injection Inj. Vol.: Liner: Inj. Temp.: Purge Flow: Oven Oven Temp.: Carrier Gas Flow Rate: Detector Transfer Line Temp.: Analyzer Type:	Rxi-5ms, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13423) California pesticide standard #1 (cat.# 34125) California pesticide standard #2 (cat.# 34125) California pesticide standard #3 (cat.# 34127) California pesticide standard #4 (cat.# 34127) California pesticide standard #6 (cat.# 34128) California pesticide standard #6 (cat.# 34129) Atrazine-d5 (cat.# 31984) Acetonitrile 5-7.5 ng/mL Expected concentration range in extract after extracting from brownie fortified at 100 ng/g (final extract was diluted in half with acetonitrile). 1 µL splitless Topaz 4.0 mm ID single taper inlet liner w/wool (cat.# 23447) 250 °C 5 mL/min 90 °C (hold 1 min) to 310 °C at 25 °C/min (hold 10 min) He, constant flow 1.4 mL/min MS/MS 290 °C Quadrupole
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Source Temp.:

Instrument Notes

Electron Energy: Tune Type: Ionization Mode:

330 °C 70 eV PFTBA

EI



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El Thermo Scientific TSQ 8000 Triple Quadrupole GC-MS Pulverized brownie (0.5 g) was fortified with pesticides and mycotoxins at 100 ng/g. A mix of internal standards was added at 200 ng/g. 1.5 mL of acetonitrile acidified with 1% acetic acid was added to the sample. The sample was vortexed and sonicated for 5 min, then the supernatant

was passed through a 100 mg Respres SPE C18 cartridge (cat # 26030). An additional 1.5 mL of extraction solvent (acidified acetonitrile) was added to the sample pellet, and the sample was vortexed again. The supernatant was passed through the same C18 cartridge. After reserving 750 μL for LC-MS analysis, the remaining supernatant was transferred to a Q-sep QuEChERS dSPE tube containing pre-weighed magnesium sulfate and PSA (cat.# 26215). After vortexing and centrifuging, 500  $\mu$ L of extract was mixed with 500  $\mu$ L of acidified acetonitrile. 1  $\mu$ L of final extract was injected into the GC-MS/MS system.