

Uncertainty of Measurement THC									
Δ9-THC Values from HPLC (%)				Sources of Uncertainty	Type A or B	% RSD	Distribution Model	Divisor	Standard Uncertainty
Sample A	9.828			Reproducibility Δ9-THC (PM)	A	2.890%	Experimental	1	2.890%
Sample B	9.807			Reproducibility THC-A (PM)	A	4.700%	Experimental	1	4.700%
% diff:	0.21%			Calibrators	B	0.650%	Rectangular	√3	0.375%
THCA Values from HPLC (%)				Balance (2 Events)	B	0.96%	Rectangular	2(√3)	0.277%
Sample A	7.957			Bias	B	5.00%	Rectangular	√3	2.887%
Sample B	7.873								
% diff:	1.06%								
Standard Deviation Δ9-THC		0.0148		Combined Standard Uncertainty =				6.244%	
Average of Values Δ9-THC		9.8175		Expanded Uncertainty =				12.489%	
Standard Deviation THCA		0.0594		Total THC (%)	16.759				
Average of Values THCA		7.9150		(Δ9-THC +(0.877*THCA)					
Results =	16.75 (+/- 2.09) % Total THC, calculated at a coverage probability of 95.45%								
				Approved for use by:	Elizabeth Van, Forensic Supervisor- Chemistry Unit				