

INJECTOR LINEARITY and ACCURACY REPORT

ACQUISITION INFORMATION

System Name: Alliance_1	Acquired By: AllianceSQT
Processing Method: Injector Lin Acc PM	Project Name: WPPL
Result Set Id: 3634	Sample Kit 1 Lot Number: W04040902
Sample Set Id: 3127	Sample Kit 1 Exp. Date: 7/3/2021 12:00:00 AM SGT
Sample Set Name: Injector Lin Acc SSM	Column Serial Number: 01893724834095
Sample Set Start Date: 2/12/2019 3:18:22 PM SGT	

TEST DESCRIPTION

Test Description: Injector linearity verifies that the injection volume delivered is linear within specified criteria. Injector linearity is determined by injecting four different injection volumes of one concentration from the same vial. Empower plots the area versus the μL injected to determine both the injector linearity and accuracy.

The coefficient of determination (R^2) is used to measure injector linearity. The injector passes the linearity test if $R^2 \geq 0.9990$.

The injector accuracy is obtained by dividing the y-intercept by the slope. Accuracy passes if the result is within the specification of $\leq 1.0 \mu\text{L}$.

Injector Linearity and Accuracy Results

	Linearity R^2 Specification	Linearity R^2	Linearity R^2 Pass/Fail	Injection Accuracy Specification	Injection Accuracy	Injection Accuracy Pass/Fail
1	$R^2 \geq 0.9990$			$\leq 1.0 \mu\text{L}$		

Certification

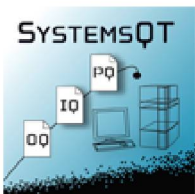
Comments

The undersigned performer attests that the values recorded and calculated above are accurate and complete.

Performer _____ Date _____
Signature

The undersigned reviewer accepts that the values recorded and calculated above are accurate and complete.

Reviewer _____ Date _____
Signature



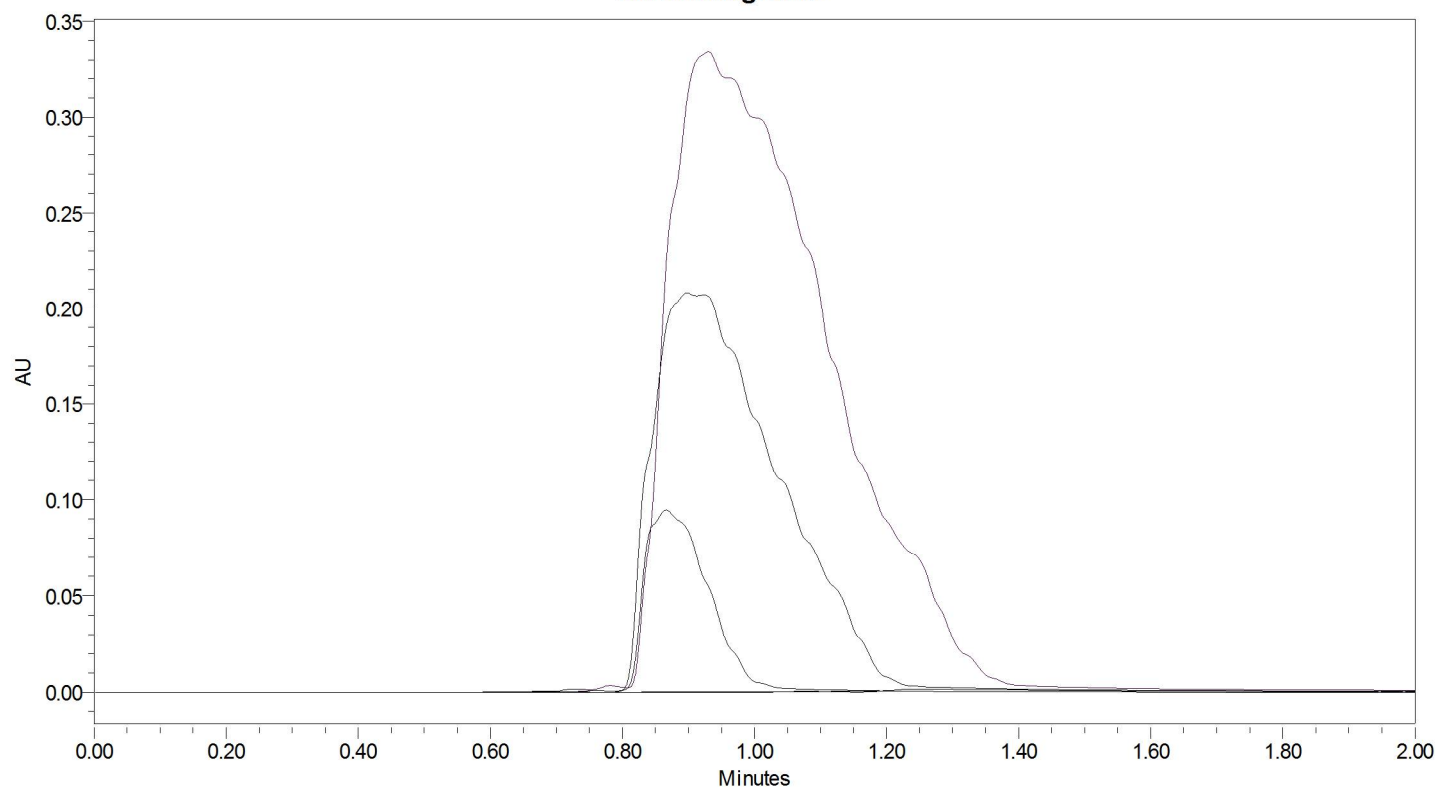
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Chromatograms

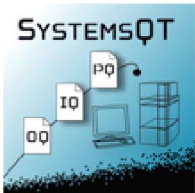


Chromatographic Peak Results

	Sample Name	Retention Time (min)	Area	Height (μV)	Amount	Peak Type	Result Id
1	80 uL	1.383	17159	1153	80.0	Found	3640
2	5 uL	1.300				Missing	3637
3	20 uL	1.300				Missing	3638
4	40 uL	1.300				Missing	3639

Injector Linearity and Accuracy Summary Results

	Linearity R ²	Injection Accuracy
1		



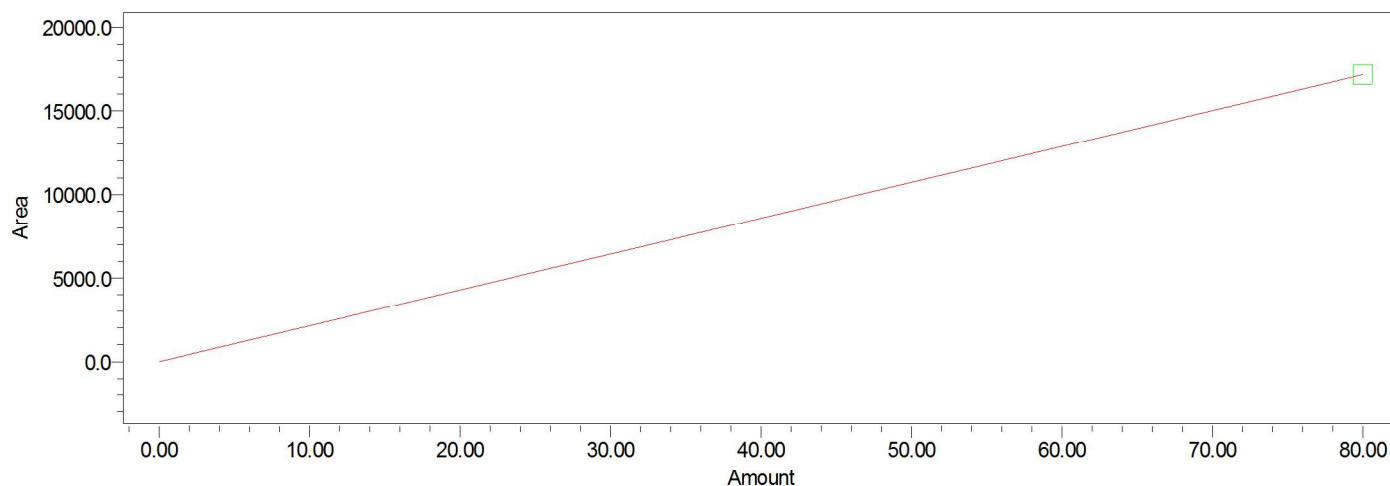
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Area Calibration Plot



Area Calibration Summary

	Fit Type	Processing Method	Slope	Y-Intercept	R^2
1		Injector Lin Acc PM			

Accuracy Calculation: **Injection Accuracy = |Y intercept/Slope|**

Y intercept = 0 Slope = 214

Injection Accuracy | 0 / 214 | = 0.00