

DETECTOR LINEARITY REPORT

ACQUISITION INFORMATION

System Name: Alliance_1	Acquired By: AllianceSQT
Processing Method: Detector Lin Sens Area PM, Detector	Project Name: WPPL
Lin Sens Height PM	Sample Kit 1 Lot Number: W04040902
Result Set Id: 3619	Sample Kit 1 Exp.Date: 7/3/2021 12:00:00 AM SGT
Sample Set Id: 3092	Column Serial Number: 01893724834095
Sample Set Name: Detector Lin Sens SSM	
Sample Set Start Date: 2/12/2019 3:03:26 PM SGT	

TEST DESCRIPTION

Detector linearity determines that the detector has a linear response within the detector's absorbance range. The Sample Set injects a series of standards at different concentrations using a constant injection volume. Empower plots height against the amount. The coefficient of determination (R^2) is used to measure detector linearity. The detector passes the linearity test if $R^2 > \text{or} = 0.990$.

Detector sensitivity is determined by dividing the height by the amount for each injection. The detector passes the sensitivity test if the %RSD of the sensitivity is $< \text{or} = 4.50\%$.

Detector Area Linearity and Sensitivity Results

	Area Linearity R^2 Specification	Area Linearity R^2	Area Linearity R^2 Pass/Fail	Area Sensitivity% RSD Specification	Area Sensitivity% RSD	Area Sensitivity% RSD Pass/Fail
1	$R^2 > \text{or} = 0.990$			%RSD $< \text{or} = 4.50$		

Detector Height Linearity and Sensitivity Results

	Height Linearity R^2 Specification	Height Linearity R^2	Height Linearity R^2 Pass/Fail	Height Sensitivity% RSD Specification	Height Sensitivity% RSD	Height Sensitivity% RSD Pass/Fail
1	$R^2 > \text{or} = 0.990$			%RSD $< \text{or} = 4.50$		

Certification

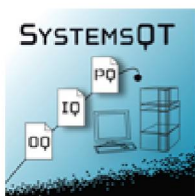
Comments

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



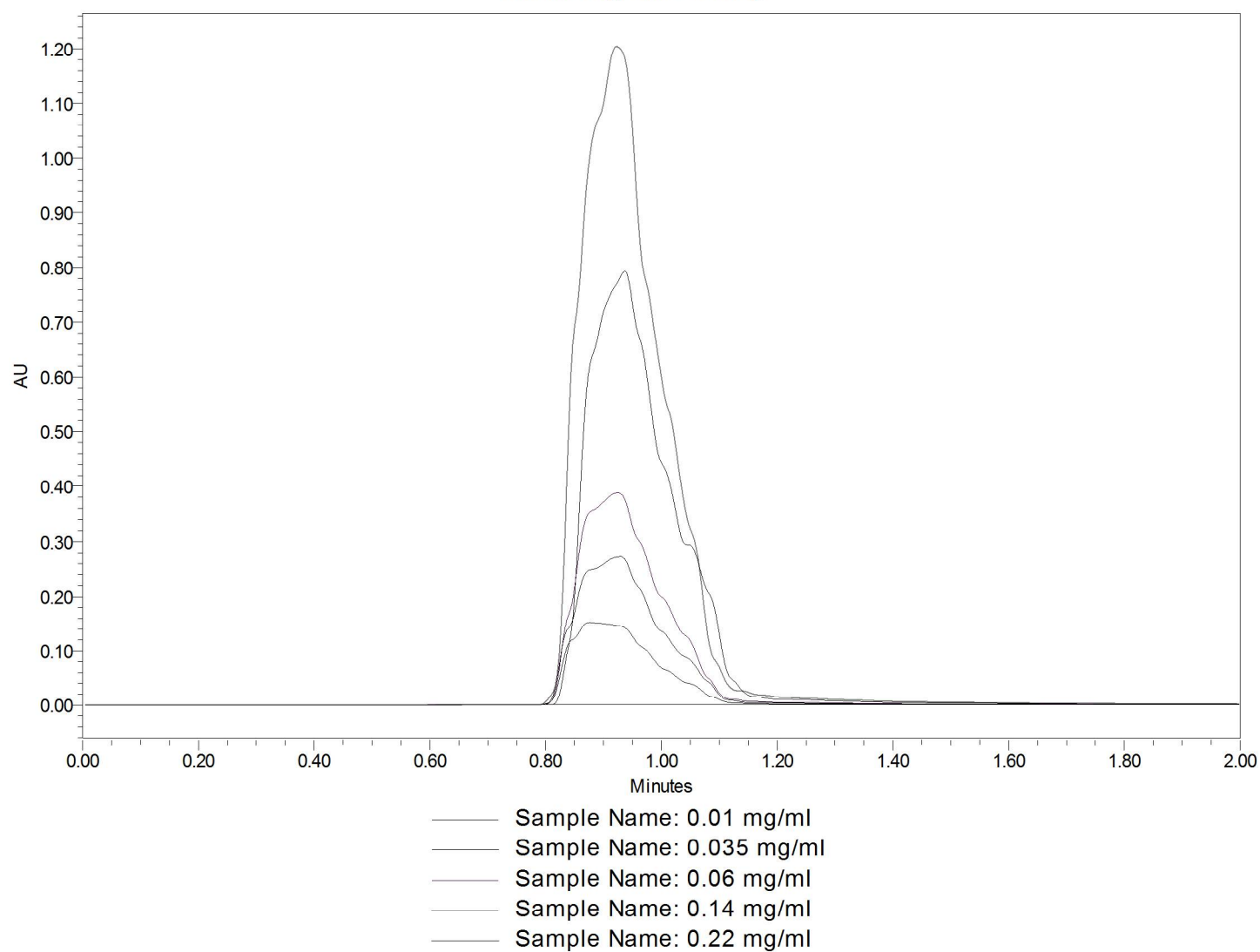
Detector Linearity Report

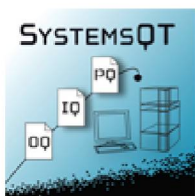
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Chromatogram Overlay





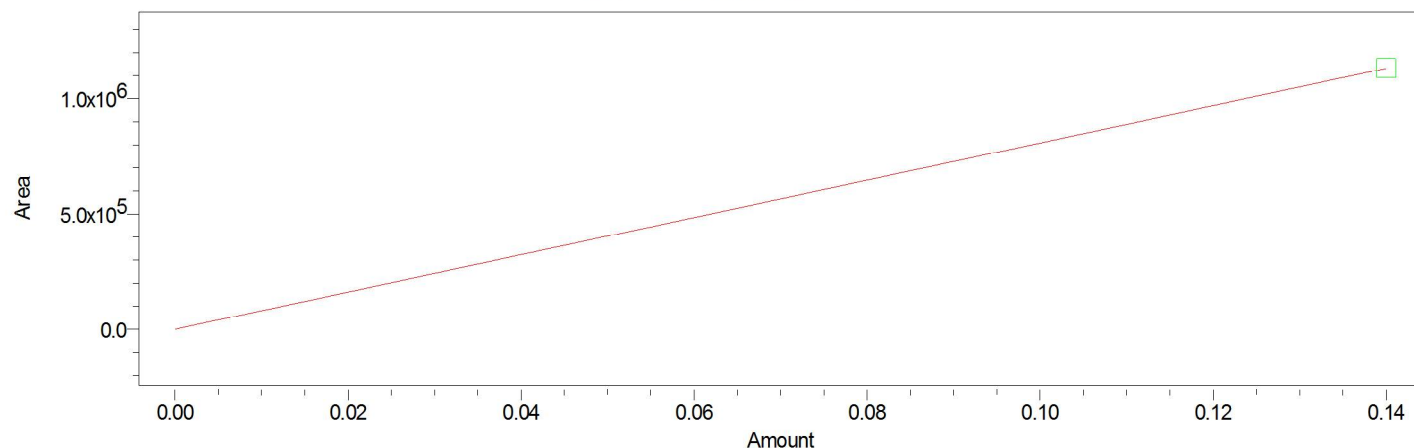
Detector Linearity Report

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Area Calibration Plot



Area Calibration Summary

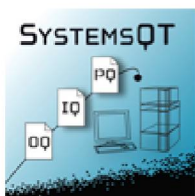
	Fit Type	Processing Method	Slope	Y-Intercept	R^2
1		Detector Lin Sens Area PM			

Area Results

	Vial	Level	SampleName	Area	Amount	Area_Sensitivity	Peak Type	Result Id
1	26	1	0.01 mg/ml				Missing	3622
2	50	2	0.035 mg/ml				Missing	3623
3	75	3	0.06 mg/ml				Missing	3624
4	98	4	0.14 mg/ml	1131633	0.140	8083091.464	Found	3625
5	100	5	0.22 mg/ml				Missing	3626

Area Summary Results

	Area Sensitivity% RSD
1	



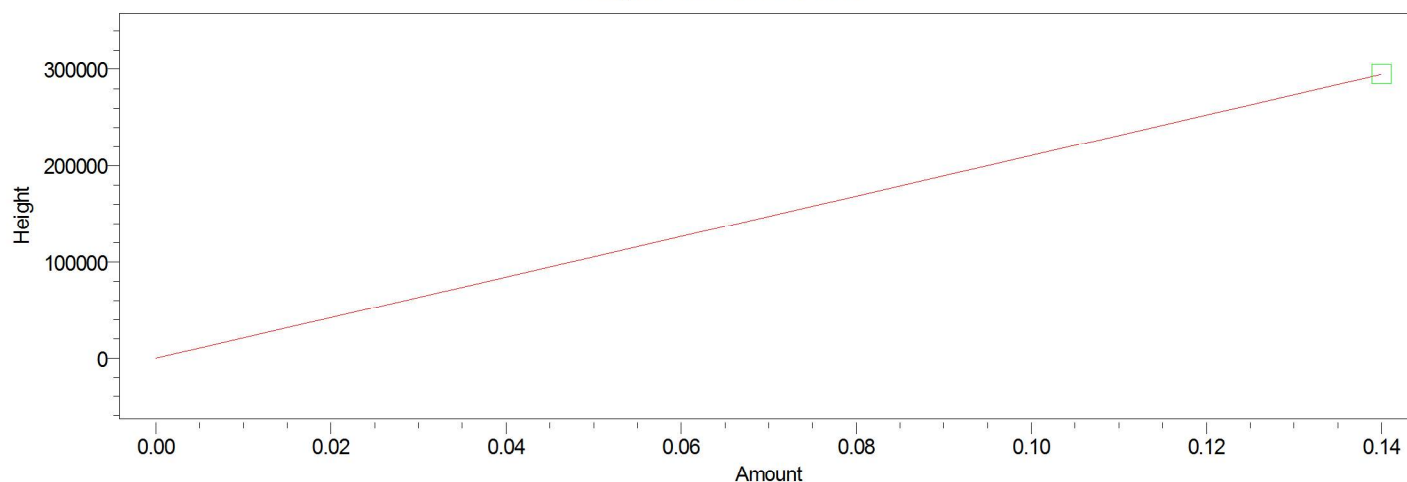
Detector Linearity Report

ACQUISITION INFORMATION

System Name: Alliance_1
Project Name: WPPL

Sample Set Id: 3092
Result Set Id: 3619

Height Calibration Plot



Height Calibration Summary

	Fit Type	Processing Method	Slope	Y-Intercept	R^2
1		Detector Lin Sens Height PM			

Height Results

	Vial	Level	SampleName	Height (µV)	Amount	Height_Sensitivity	Peak Type	Result Id
1	26	1	0.01 mg/ml				Missing	3629
2	50	2	0.035 mg/ml				Missing	3630
3	75	3	0.06 mg/ml				Missing	3631
4	98	4	0.14 mg/ml	294754	0.140	2105388.195	Found	3632
5	100	5	0.22 mg/ml				Missing	3633

Height Summary Results

	Height Sensitivity% RSD
1	