



Performance Qualification

• *Injector and Flow Precision*

• *Instruments and Fluidics*

<i>Instrument Name</i>	<i>Model</i>	<i>Supplier's Name</i>	<i>Serial Number</i>
Pump	G1311A	DIONEX	DE40926267
Autosampler	G1329A	DIONEX	DE03013070
Column Oven	Other	DIONEX	not available
UV Detector	G1314A	DIONEX	JP73704500
Chromeleon Datasystem	V. 6.80 SR15 Build 4656 (243	DIONEX	1904

<i>Accessories</i>	<i>Name</i>
Back Pressure Device	Capillary (L:15 m; ID:0,18 mm)
Sample 4	Caffeine in Water 140 µg/ml
Solvent A	Water (HPLC-Grade)

• *Additional Information*

Customer: Customer's Name
 Operator: Operator's Name
 Operator's Jobtitle

Execution Date: juin-22-20
 Next Qualification: déc-20

• *Limits, Values and Test Results*

	<i>Limit</i>	<i>Observed Value</i>	<i>Result</i>
Injector Precision - Area	1,000 % RSD	0,159 % RSD	Test passed
Flow Precision - Ret. Time	0,070 % RSD OR 0,0200 min SD	0,098 % RSD 0,0003 min SD	Test passed

 Reviewer's signature // Date

 Operator's signature // Date

• **Data for Injector and Flow Precision Test: Volume**

5,0 µl

Sample Name	Ret. Time min Caffeine UV_VIS_1	Area mAU*min Caffeine UV_VIS_1
Injector and flow reproducibility_1	0,3282	74,173
Injector and flow reproducibility_2	0,3275	74,419
Injector and flow reproducibility_3	0,3285	74,085
Injector and flow reproducibility_4	0,3278	74,039
Injector and flow reproducibility_5	0,3285	74,061
Injector and flow reproducibility_6	0,3278	74,057
Injector and flow reproducibility_7	0,3282	74,105
Injector and flow reproducibility_8	0,3278	74,064
Injector and flow reproducibility_9	0,3278	74,171
Injector and flow reproducibility_10	0,3282	74,014
Average:	0,3280	74,119
RSD:	0,098 %	0,159 %
RSD Limit:	0,070 %	1,000 %
SD:	0,0003	
SD Limit:	0,0200	
Result:	ok	ok

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Operator's signature // Date

• ***Charts for Injector and Flow Precision Test***

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Name	Area mAU*min Caffeine UV_VIS_1	Ret.Time min Caffeine UV_VIS_1	Sample No.	Area Dev. from mean [%]	No.
Injector and flow reproducibility_1	74,173	0,328	1	0,073	1
Injector and flow reproducibility_2	74,419	0,328	2	0,406	2
Injector and flow reproducibility_3	74,085	0,329	3	-0,046	3
Injector and flow reproducibility_4	74,039	0,328	4	-0,108	4
Injector and flow reproducibility_5	74,061	0,329	5	-0,078	5
Injector and flow reproducibility_6	74,057	0,328	6	-0,083	6
Injector and flow reproducibility_7	74,105	0,328	7	-0,019	7
Injector and flow reproducibility_8	74,064	0,328	8	-0,074	8
Injector and flow reproducibility_9	74,171	0,328	9	0,070	9
Injector and flow reproducibility_10	74,014	0,328	10	-0,141	10
Average:	74,119	0,328			
RSD:	0,159 %	0,098 %			
SD:		0,000 min			

	Area:	Retention Time:
Sum of x:	741,1879867	3,280333333
sum of sq(x):	54936,0879	1,076059611
Sq of sum (x):	549359,6317	10,76058678
STD:	0,117722948	0,000322031
Average:	74,11879867	0,328033333
RSD:	0,001588301	0,000981701
Number of samples:	10	10

Sequence name:	PQ_INJECTOR_FLOW_REPRO
Right end of the sequence name :	EPRO
Pump's model number:	G1311A
Pump's model variant:	n.a.
Pump unit:	

ModelNo	Loop Volume	Evaluation	Reference value for report
WPS-3000	40	0	S4
ACC-3000	200	0	

ACC-3000T	200	0
WPS-3000	344	0
WPS-3000	250	0

Ret. Time Deviation from the mean value [%]
0,041
-0,163
0,142
-0,061
0,142
-0,061
0,041
-0,061
-0,061
0,041

ard 4):