

WAVELENGTH ACCURACY REPORT

ACQUISITION INFORMATION

System Name: Column Manager
Project Name: SQT_ACQUITY_TUV_12
Sample Set Method: 030 Wavelength Accuracy
Processing Method Wavelength Accuracy PM
Report Method Name: Wavelength Acc Report
User Name: Tester Account (Tester)
Sample Set Name: Wavelength Accuracy

Acquired By: Tester
Column serial Number: 03833034215140
Sample Kit 1 Expiration date: 10/6/2022 12:00:00 AM
Sample Kit 1 Lot Number: W06102013
Build Version: Empower 2 Software Build 2154 SPs
Sample Set Id: 14383 Result Set Id 14398
Sample Set Start Date: 4/12/2021 4:08:17 PM

Wavelength accuracy is determined by identifying the 2 lambda max values of caffeine. The spectrum of caffeine is well defined with a lambda max of 205.0 nm and 273.0 nm. Empower measures deviations from these wavelengths to determine the accuracy of the detector. The detector wavelength accuracy must be within ± 2 nm of each Caffeine lambda max to pass.

Wavelength Accuracy Results

	Specification 1	Lambda Max	Lambda Max Pass Fail
1	203nm-207nm	205	PASS

	Specification 2	Lambda Max	Lambda Max Pass Fail
1	271nm-275nm	272	PASS

Certification

Comments

No comments.

NA

13 Apr 2021.

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

Performer

Signature

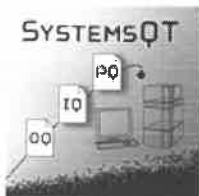
Date 13 Apr 2021.

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

Reviewer

Signature

Date



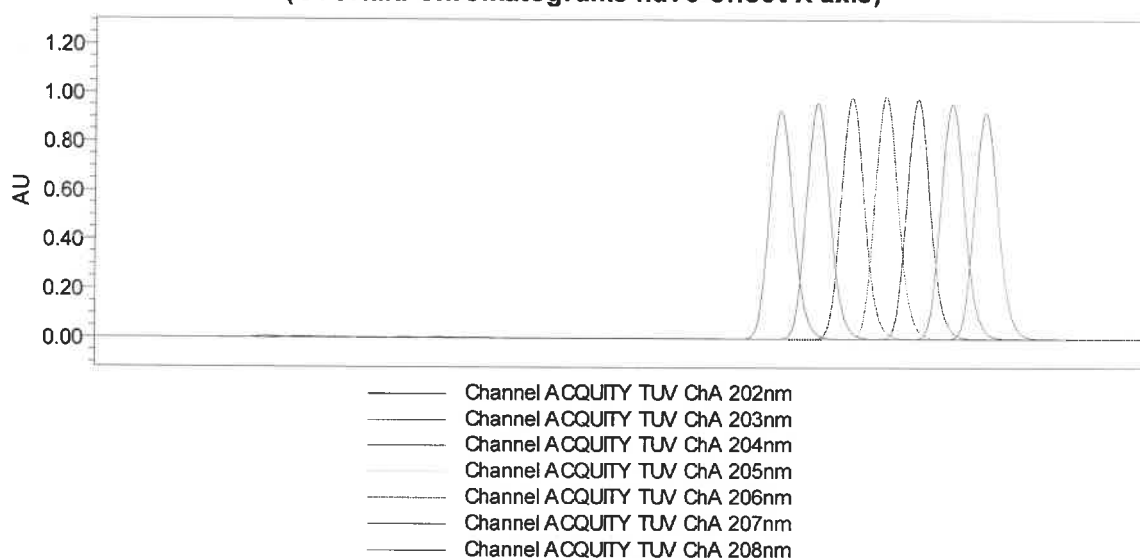
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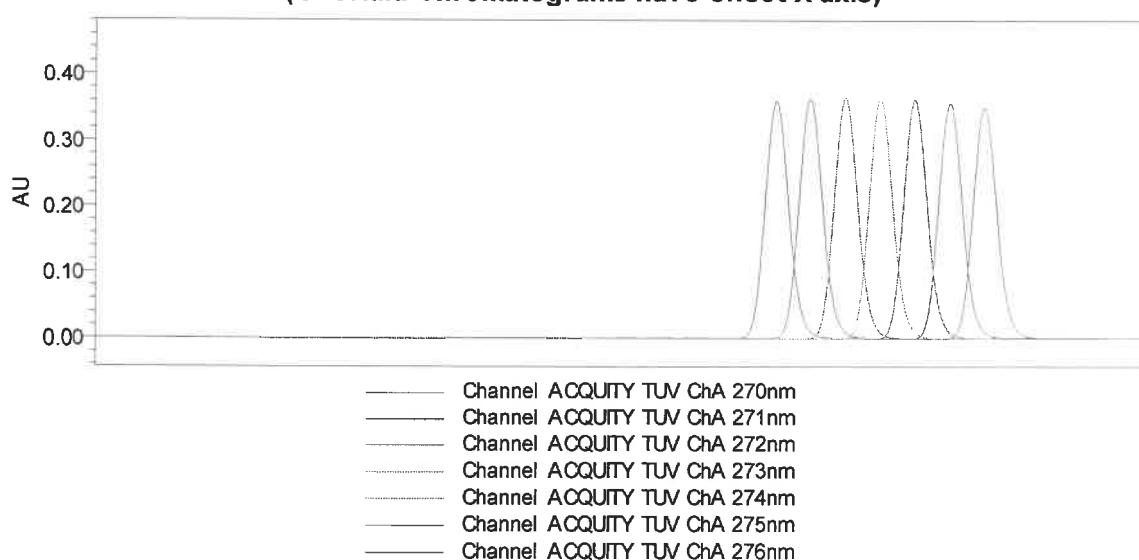
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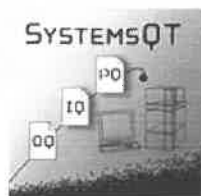
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Wavelength Accuracy Overlaid Chromatogram (Caffeine peak) 202nm - 208nm
(Overlaid Chromatograms have offset X axis)



Wavelength Accuracy Overlaid Chromatogram (Caffeine peak) 270nm - 276nm
(Overlaid Chromatograms have offset X axis)





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Wavelength Accuracy Results Table

Channel Name: ACQUITY TUV ChA

	Injection Id	Channel Name	Lambda	Channel Description	Height (µV)	Area (µV*sec)	Result Id
1	14416	ACQUITY TUV ChA	205	ACQUITY TUV ChA 205nm	988508	3111222	14509
2	14408	ACQUITY TUV ChA	204	ACQUITY TUV ChA 204nm	982526	3093462	14508
3	14424	ACQUITY TUV ChA	206	ACQUITY TUV ChA 206nm	977381	3072640	14510
4	14400	ACQUITY TUV ChA	203	ACQUITY TUV ChA 203nm	962924	3032354	14507
5	14432	ACQUITY TUV ChA	207	ACQUITY TUV ChA 207nm	959325	3015516	14511
6	14391	ACQUITY TUV ChA	202	ACQUITY TUV ChA 202nm	931986	2926764	14506
7	14440	ACQUITY TUV ChA	208	ACQUITY TUV ChA 208nm	922841	2899517	14512

Wavelength Accuracy Results Table

Channel Name: ACQUITY TUV ChA

	Injection Id	Channel Name	Lambda	Channel Description	Height (µV)	Area (µV*sec)	Result Id
1	14464	ACQUITY TUV ChA	272	ACQUITY TUV ChA 272nm	363850	1141006	14515
2	14472	ACQUITY TUV ChA	273	ACQUITY TUV ChA 273nm	363814	1140530	14516
3	14456	ACQUITY TUV ChA	271	ACQUITY TUV ChA 271nm	363014	1137143	14514
4	14480	ACQUITY TUV ChA	274	ACQUITY TUV ChA 274nm	360713	1130768	14517
5	14448	ACQUITY TUV ChA	270	ACQUITY TUV ChA 270nm	358919	1124387	14513
6	14488	ACQUITY TUV ChA	275	ACQUITY TUV ChA 275nm	356023	1116004	14518
7	14496	ACQUITY TUV ChA	276	ACQUITY TUV ChA 276nm	348937	1093791	14519