



# **EQUIVALENCE OF MEASUREMENT UNITS FOR OQ TESTS**

### **Equivalence of Measurement Units in 00 Tests**

Agilent CrossLab provides a harmonized approach to compliance: not only it is compatible with systems from all leading vendors, the Automated Compliance Engine (ACE) is CDS neutral, working independently from the software used for system control and data reduction.

The measurements taken in the Noise and Drift and Injection Response tests typically use number of counts internally, but can also be expressed in different units, depending on the software used. This scaling provides richer information content and added consistency with the CDS used by the qualified system — representing an added convenience but not impacting the measurements made.

Because the conversion factors between units are applied to both the measurements and the limits, the specific unit selection has no relevance on the pass/fail test assessment.

The tables below list the limits for the Injection Response and the Signal Noise and Drift tests, depending on the CDS used to control the instrument. They can be used as a cross-reference of the equivalent tests limits in different units.

Note: Units other than those displayed below may be requested.

### **LC 00 Test: Injection Response**

		CDS Type					
Configuration	EQP Limit	ChemStation	EZChrom	Empower	Chromeleon		
Agilent/non-Agilent UV/UV-Vis	1200-1800 mAU* sec	1200-1800 mAU*sec	1200000-1800000 counts*sec	1200000-1800000 μV*sec	1200-1800 mAU*min		

#### LC 00 Test: Noise and Drift

	EQP Limit		CDS Type				
Configuration			ChemStation	EZChrom	Empower	Chromeleon	
Agilent VWD	Noise Drift	0.040 mAU 0.500 mAU/hr	0.040 mAU 0.500 mAU/hr	0.040 mAU 0.500 mAU/hr	40 μV 500 μV/hr	0.040 mAU 0.500 mAU/hr	
Agilent MWD/DAD	Noise Drift	0.050 mAU 5.000 mAU/hr	0.050 mAU 5.000 mAU/hr	0.050 mAU 5.000 mAU/hr	50 μV 5,000 μV/hr	0.050 mAU 5.000 mAU/hr	
Agilent UHPLC DAD (G4212A/B, G7117A/B/C)	Noise Drift	0.030 mAU 3.000 mAU/hr	0.030 mAU 3.000 mAU/hr	0.030 mAU 3.000 mAU/hr	30 μV 3,000 μV/hr	0.030 mAU 3.000 mAU/hr	
Non-Agilent UV/UV- Vis	Noise Drift	0.100 mAU 10.000 mAU/hr	N/A	On request	100 μV 10,000 μV/hr	0.100 mAU 10.000 mAU/hr	
Agilent RID	Noise Drift	10.000 nRIU 400.000 nRIU/hr	10.000 nRIU 400.000 nRIU/hr	10.000 nRIU 400.000 nRIU/hr	10,000,000 (10*) $\mu V$ 400,000,000 (400*) $\mu V/hr$	10.000 nRIU 400.000 nRIU/hr	
Waters RID	Noise Drift	10.000 nRIU 400.000 nRIU/hr	N/A	On request	256 μV 10,240 μV/hr	10.000 nRIU 400.000 nRIU/hr	
Agilent ELSD	Noise Drift	2.000 mV 5.000 mV/hr	2.000 mV 5.000 mV/hr	2.000 mV 5.000 mV/hr	2,000 uV 5,000 uV/hr	N/A	
Non Agilent ELSD	Noise Drift	2.000 mV 5.000 mV/hr	N/A	On request	2,000 μV 5,000 μV/hr	N/A	
Non Agilent CD	Noise Drift	0.100 uS 10.000 uS/hr	N/A	N/A	0.0001 mV 0.010 mV/hr	0.100 µSiemens 10.000 µSiemens/hr	

<sup>\*</sup> Alternate values are for Empower 3 FR1 and later software.

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## www.agilent.com/crosslab/compliance-steps

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