

Waters Corporation - Test Record

Part Number: <u>186015080</u>	Product: <u>Acquity QSM PLUS</u>
Operator: <u>847838</u>	Start Time: <u>05/18/2018, 15:38:</u>
Serial Number: <u>E18QSP461A</u>	End Time: <u>05/19/2018, 08:35:</u>
Test System: <u>TE82943-16</u>	Order: <u>N/A</u>
Test Software: <u>1.7</u>	Location: <u>Flextronics, SG</u>

TMD: TMD010478

Firmware: 1.71.381 (Feb 14 2018 10:01:23)

Name	LSL	Measurement	USL	Unit	Outcome
Test Electrical Safety					PASS
Test Loader Download					PASS
Test Reboot Firmware					PASS
Test Firmware Version					PASS
Test Instrument Type					PASS
Test Serial Number					PASS
Test Alarms at Bootup					PASS
Test Gradient Start Input SHORT					PASS
Test Gradient Start Input OPEN					PASS
Test Stop Flow Input SHORT					PASS
Test Stop Flow Input OPEN					PASS
Test Leak Detect Connected					PASS
Test Leak Detect Disconnected					PASS
Test Leak Detect Leak					PASS
Test Alarms Recheck					PASS
Test Seal Wash Pump Prime/Flow	2	3.8	5	ml/min	PASS
Test Input D Prime with MeOH	10	32.7	85	PSI	PASS
Test Input C Prime with MeOH	10	33.6	85	PSI	PASS
Test Input B Prime with MeOH	10	33.3	85	PSI	PASS
Test Input A Prime with MeOH	10	33.4	85	PSI	PASS
Test Degasser Pressure	0	0.55	1.547	PSI	PASS
Test Dynamic Leak - Accumulator Leak Rate	5	52	149.9	nL/min	PASS
Test Dynamic Leak - Accumulator Percent of Stroke	1	24	30	%	PASS
Test Dynamic Leak - Accumulator Compressed Volume	1	14	50	uL	PASS
Test Dynamic Leak - Accum. Maximum Pressure	14000	14021	15000	psi	PASS
Test Dynamic Leak - Primary Leak Rate	5	18	149.9	nL/min	PASS
Test Dynamic Leak - Primary Percent of Stroke	1	23	50	%	PASS
Test Dynamic Leak - Primary Compressed Volume	1	13	50	uL	PASS
Test Dynamic Leak - Primary Maximum Pressure	12000	12018	13000	psi	PASS
Test Flow Rate Accuracy 2.0ml/min	1.98	2.009	2.02	ml/min	PASS
Test Pressure Ripple at 2 ml/min	0	3	15	PSI	PASS
Test Flow Rate Accuracy 0.5ml/min	0.495	0.504	0.505	ml/min	PASS
Test Static Leak Decay Vent Valve to Filter/Mixer	1	23	250	PSI/min	PASS
Test High Pressure	9000	11665	14000	PSI	PASS
Test Compositional Accuracy - AC90%AU	89.5	89.99	90.5	%	PASS
Test Compositional Accuracy - BD90%AU	89.5	89.8	90.5	%	PASS
Test Compositional Accuracy - BD10%AU	9.5	10.13	10.5	%	PASS
Test Compositional Accuracy - AC10%AU	9.5	10.18	10.5	%	PASS
Test Serial Number Re-verification					PASS
Test Fans					PASS
Test LEDs					PASS

Acquity QSM PLUS Final Test Overall Result - PASS

Signed:	Date:
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END OF DATA