

Test Summary Report

Time Period : 01/01/2019 00:00:00 HKT to 06/08/2020 00:00:00 HKT

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- Acquity_QSM PLUS Final Test for 186015080 @ LC Pumps F

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Acquity QSM PLUS Final Test for 186015080 @ LC Pumps F

Product	186015080	% of Failure
Tested	4,315	
Pass	2,321	
Fail	1,994	
Yield	53.789%	
Test Loader Download	30	0.695%
Test Input C Prime with MeOH	79	1.831%
Test Electrical Safety	0	0%
Test Reboot Firmware	4	0.093%
Test Firmware Version	2	0.046%
Test Instrument Type	0	0%
Test Serial Number	0	0%
Test Alarms at Bootup	46	1.066%
Test Gradient Start Input SHORT	334	7.74%
Test Gradient Start Input OPEN	1	0.023%
Test Stop Flow Input SHORT	23	0.533%
Test Stop Flow Input OPEN	1	0.023%
Test Leak Detect Connected	82	1.9%
Test Leak Detect Disconnected	0	0%
Test Leak Detect Leak	0	0%
Test Alarms Recheck	0	0%
Test Seal Wash Pump Prime/Flow	138	3.198%
Test Input D Prime with MeOH	178	4.125%
Test Input B Prime with MeOH	45	1.043%
Test Input A Prime with MeOH	58	1.344%
Test Degasser Pressure	12	0.278%
Test Dynamic Leak - Accumulator Leak Rate	74	1.715%
Test Dynamic Leak - Accumulator Percent of Stroke	49	1.136%
Test Dynamic Leak - Accumulator Compressed Volume	49	1.136%
Test Dynamic Leak - Accum. Maximum Pressure	51	1.182%
Test Dynamic Leak - Primary Leak Rate	119	2.758%
Test Dynamic Leak - Primary Percent of Stroke	80	1.854%
Test Dynamic Leak - Primary Compressed Volume	80	1.854%
Test Dynamic Leak - Primary Maximum Pressure	80	1.854%
Test Flow Rate Accuracy 2.0ml/min	141	3.268%
Test Pressure Ripple at 2 ml/min	13	0.301%
Test Flow Rate Accuracy 0.5ml/min	143	3.314%
Test Static Leak Decay Vent Valve to Filter/Mixer	167	3.87%
Test High Pressure	50	1.159%
Test Compositional Accuracy - AC90%AU	199	4.612%
Test Compositional Accuracy - BD90%AU	239	5.539%
Test Compositional Accuracy - BD10%AU	321	7.439%
Test Compositional Accuracy - AC10%AU	377	8.737%
Test Serial Number Re-verification	2	0.046%
Test Fans	0	0%
Test LEDs	0	0%

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- [Acquity BSM Final Test for 186015001 @ LC Pumps F](#)

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Acquity BSM Final Test for 186015001 @ LC Pumps F		
Product	186015001	% of Failure
Tested	741	
Pass	373	
Fail	368	
Yield	50.337%	
Test Seal Wash Pump Prime/Flow	73	9.852%
Test Flow Rate Accuracy Pump A 2ml/min	30	4.049%
Test Electrical Safety	0	0%
Test Loader Download	15	2.024%
Test Reboot Firmware for Pump B Download	11	1.484%
Test Pump A Pressure Ripple	7	0.945%
Test Firmware Version	5	0.675%
Test Serial Number	0	0%
Test Alarms at Bootup	26	3.509%
Test Switch2 Output ON	12	1.619%
Test Switch2 Output OFF	0	0%
Test Switch3 Output ON	2	0.27%
Test Switch3 Output OFF	0	0%
Test Run Stopped Output ON	2	0.27%
Test Run Stopped Output OFF	0	0%
Test Switch1 Output ON	0	0%
Test Switch1 Output OFF	1	0.135%
Test Gradient Start Input SHORT	2	0.27%
Test Gradient Start Input OPEN	0	0%
Test Stop Flow Input SHORT	0	0%
Test Stop Flow Input OPEN	0	0%
Test Auxiliary1 Input SHORT	0	0%
Test Auxiliary1 Input OPEN	0	0%
Test Auxiliary2 Input SHORT	0	0%
Test Auxiliary2 Input OPEN	1	0.135%
Test Analog Output2 set to 2.0 VDC	8	1.08%
Test Analog Output2 set to 0.0 VDC	0	0%
Test Analog Output1 set to 2.0 VDC	5	0.675%
Test Analog Output1 set to 0.0 VDC	0	0%
Test Leak Detect Connected	11	1.484%
Test Leak Detect Disconnected	1	0.135%
Test Leak Detect Input Low	0	0%
Test Leak Detect Input High	4	0.54%
Test Alarms Recheck	0	0%
Test Pump A Input 2 Prime with IPA	21	2.834%
Test Pump B Input 2 Prime with IPA	26	3.509%
Test Pump A Input 1 Prime with MeOH	5	0.675%
Test Pump B Input 1 Prime with MeOH	3	0.405%
Test Degasser Pressure	1	0.135%
Test Degasser Switch Setting	3	0.405%
Test Static Leak Pump A - Accumulator Decay Rate	12	1.619%
Test Static Leak Pump A - Accumulator Compression Stroke	8	1.08%
Test Static Leak Pump A - Accumulator Inferred Leak Rate	11	1.484%

Test Static Leak Pump A - Accum. Highest Pressure Achieved	9	1.215%
Test Static Leak Pump A - Primary Decay Rate	22	2.969%
Test Static Leak Pump A - Primary Compression Stroke	14	1.889%
Test Static Leak Pump A - Primary Inferred Leak Rate	17	2.294%
Test Static Leak Pump A - Primary Highest Pressure Achieved	12	1.619%
Test Static Leak Pump B - Accumulator Decay Rate	31	4.184%
Test Static Leak Pump B - Accumulator Compression Stroke	9	1.215%
Test Static Leak Pump B - Accumulator Inferred Leak Rate	10	1.35%
Test Static Leak Pump B - Accum. Highest Pressure Achieved	9	1.215%
Test Static Leak Pump B - Primary Decay Rate	21	2.834%
Test Static Leak Pump B - Primary Compression Stroke	12	1.619%
Test Static Leak Pump B - Primary Inferred Leak Rate	14	1.889%
Test Static Leak Pump B - Primary Highest Pressure Achieved	11	1.484%
Test Flow Rate Accuracy Pump A 0.5ml/min	10	1.35%
Test Flow Rate Accuracy Pump B 2ml/min	0	0%
Test Pump B Pressure Ripple	2	0.27%
Test Flow Rate Accuracy Pump B 0.5ml/min	2	0.27%
Test Flow Rate Accuracy Pump A&B 1.0ml+1.0ml/min	1	0.135%
Test High Pressure Flow Pump A&B	1	0.135%
Test Dynamic Leak Manifold to Filter Tube	28	3.779%
Test Serial Number Re-verification	2	0.27%
Test Fans	0	0%
Test LEDs	1	0.135%

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- [Acquity pQSM XR APC Final Test for 186015058 @ LC Pumps F](#)

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Acquity pQSM XR APC Final Test for 186015058 @ LC Pumps F		
Product	186015058 % of Failure	
Tested	16	
Pass	8	
Fail	8	
Yield	50%	
Test Flow Rate Accuracy 2.0ml/min	1	6.25%
Test Compositional Accuracy - BD10%AU	2	12.5%
Test Compositional Accuracy - AC10%AU	2	12.5%
Test Electrical Safety	0	0%
Test Loader Download	0	0%
Test Reboot Firmware	0	0%
Test Firmware Version	0	0%
Test Instrument Type	0	0%
Test Serial Number	0	0%
Test Alarms at Bootup	0	0%
Test Gradient Start Input SHORT	0	0%
Test Gradient Start Input OPEN	0	0%
Test Stop Flow Input SHORT	0	0%
Test Stop Flow Input OPEN	0	0%
Test Leak Detect Connected	1	6.25%
Test Leak Detect Disconnected	0	0%
Test Leak Detect Leak	0	0%
Test Alarms Recheck	0	0%
Test Seal Wash Pump Prime/Flow	3	18.75%
Test Input D Prime with MeOH	1	6.25%

Test Input C Prime with MeOH	0	0%
Test Input B Prime with MeOH	0	0%
Test Input A Prime with MeOH	0	0%
Test Degasser Pressure	0	0%
Test Dynamic Leak - Accumulator Leak Rate	0	0%
Test Dynamic Leak - Accumulator Percent of Stroke	0	0%
Test Dynamic Leak - Accumulator Compressed Volume	0	0%
Test Dynamic Leak - Accum. Maximum Pressure	0	0%
Test Dynamic Leak - Primary Leak Rate	0	0%
Test Dynamic Leak - Primary Percent of Stroke	0	0%
Test Dynamic Leak - Primary Compressed Volume	0	0%
Test Dynamic Leak - Primary Maximum Pressure	0	0%
Test Pressure Ripple at 2 ml/min	0	0%
Test Flow Rate Accuracy 0.5ml/min	0	0%
Test Static Leak Decay Vent Valve to Filter/Mixer	0	0%
Test High Pressure	0	0%
Test Compositional Accuracy - AC90%AU	2	12.5%
Test Compositional Accuracy - BD90%AU	2	12.5%
Test Serial Number Re-verification	0	0%
Test Fans	0	0%
Test LEDs	0	0%

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- [Acquity BSM Final Test for 186015000 @ LC Pumps V](#)
- [Acquity BSM Final Test for 186015082 @ LC Pumps V](#)

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Acquity BSM Final Test for 186015000 @ LC Pumps V

Product	186015000	% of Failure
Tested	37	
Pass	13	
Fail	24	
Yield	35.135%	
Test Seal Wash Pump Prime/Flow	3	8.108%
Test Flow Rate Accuracy Pump A 2ml/min	1	2.703%
Test Electrical Safety	0	0%
Test Loader Download	2	5.405%
Test Reboot Firmware for Pump B Download	0	0%
Test Pump A Pressure Ripple	0	0%
Test Firmware Version	1	2.703%
Test Serial Number	0	0%
Test Alarms at Bootup	0	0%
Test Switch2 Output ON	2	5.405%
Test Switch2 Output OFF	0	0%
Test Switch3 Output ON	0	0%
Test Switch3 Output OFF	0	0%
Test Run Stopped Output ON	0	0%
Test Run Stopped Output OFF	0	0%
Test Switch1 Output ON	0	0%
Test Switch1 Output OFF	0	0%
Test Gradient Start Input SHORT	0	0%
Test Gradient Start Input OPEN	0	0%
Test Stop Flow Input SHORT	0	0%
Test Stop Flow Input OPEN	0	0%

Test Auxiliary1 Input SHORT	0	0%
Test Auxiliary1 Input OPEN	0	0%
Test Auxiliary2 Input SHORT	0	0%
Test Auxiliary2 Input OPEN	0	0%
Test Analog Output2 set to 2.0 VDC	0	0%
Test Analog Output2 set to 0.0 VDC	0	0%
Test Analog Output1 set to 2.0 VDC	0	0%
Test Analog Output1 set to 0.0 VDC	0	0%
Test Leak Detect Connected	0	0%
Test Leak Detect Disconnected	0	0%
Test Leak Detect Input Low	0	0%
Test Leak Detect Input High	0	0%
Test Alarms Recheck	0	0%
Test Pump A Input 2 Prime with IPA	2	5.405%
Test Pump B Input 2 Prime with IPA	1	2.703%
Test Pump A Input 1 Prime with MeOH	0	0%
Test Pump B Input 1 Prime with MeOH	0	0%
Test Degasser Pressure	0	0%
Test Degasser Switch Setting	0	0%
Test Pump A Dynamic Leak - Accum. Leak Rate	4	10.811%
Test Pump A Dynamic Leak - Accum. Percent of Stroke	1	2.703%
Test Pump A Dynamic Leak - Accum. Max Pressure	3	8.108%
Test Pump A Dynamic Leak - Primary Leak Rate	1	2.703%
Test Pump A Dynamic Leak - Primary Percent of Stroke	1	2.703%
Test Pump A Dynamic Leak - Primary Max Pressure	5	13.514%
Test Pump A Dynamic Leak Low PSI - Accum. Leak Rate	0	0%
Test Pump A Dynamic Leak Low PSI - Accum. Percent of Stroke	0	0%
Test Pump A Dynamic Leak Low PSI - Accum. Max Pressure	0	0%
Test Pump A Dynamic Leak Low PSI - Primary Leak Rate	0	0%
Test Pump A Dynamic Leak Low PSI - Primary Percent of Stroke	0	0%
Test Pump A Dynamic Leak Low PSI - Primary Max Pressure	0	0%
Test Pump B Dynamic Leak - Accum. Leak Rate	0	0%
Test Pump B Dynamic Leak - Accum. Percent of Stroke	0	0%
Test Pump B Dynamic Leak - Accum. Max Pressure	0	0%
Test Pump B Dynamic Leak - Primary Leak Rate	1	2.703%
Test Pump B Dynamic Leak - Primary Percent of Stroke	0	0%
Test Pump B Dynamic Leak - Primary Max Pressure	2	5.405%
Test Pump B Dynamic Leak Low PSI - Accum. Leak Rate	0	0%
Test Pump B Dynamic Leak Low PSI - Accum. Percent of Stroke	0	0%
Test Flow Rate Accuracy Pump A 0.5ml/min	0	0%
Test Pump B Dynamic Leak Low PSI - Accum. Max Pressure	0	0%
Test Flow Rate Accuracy Pump B 2ml/min	2	5.405%
Test Pump B Dynamic Leak Low PSI - Primary Leak Rate	0	0%
Test Pump B Pressure Ripple	0	0%
Test Pump B Dynamic Leak Low PSI - Primary Percent of Stroke	0	0%
Test Flow Rate Accuracy Pump B 0.5ml/min	0	0%
Test Pump B Dynamic Leak Low PSI - Primary Max Pressure	0	0%
Test Flow Rate Accuracy Pump A&B 1.0ml+1.0ml/min	0	0%
Test High Pressure Flow Pump A&B	0	0%
Test Dynamic Leak Manifold to Filter Tube	0	0%
Test Serial Number Re-verification	0	0%
Test Fans	0	0%
Test LEDs	0	0%

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Acquity BSM Final Test for 186015082 @ LC Pumps V

Product	186015082	% of Failure
Tested	2,690	

Pass	1,636	
Fail	1,054	
Yield	60.818%	
Test Seal Wash Pump Prime/Flow	41	1.524%
Test Flow Rate Accuracy Pump A 2ml/min	40	1.487%
Test Electrical Safety	0	0%
Test Loader Download	10	0.372%
Test Reboot Firmware for Pump B Download	15	0.558%
Test Pump A Pressure Ripple	8	0.297%
Test Firmware Version	8	0.297%
Test Serial Number	1	0.037%
Test Alarms at Bootup	38	1.413%
Test Switch2 Output ON	7	0.26%
Test Switch2 Output OFF	2	0.074%
Test Switch3 Output ON	10	0.372%
Test Switch3 Output OFF	1	0.037%
Test Run Stopped Output ON	1	0.037%
Test Run Stopped Output OFF	4	0.149%
Test Switch1 Output ON	1	0.037%
Test Switch1 Output OFF	0	0%
Test Gradient Start Input SHORT	7	0.26%
Test Gradient Start Input OPEN	0	0%
Test Stop Flow Input SHORT	0	0%
Test Stop Flow Input OPEN	8	0.297%
Test Auxiliary1 Input SHORT	0	0%
Test Auxiliary1 Input OPEN	0	0%
Test Auxiliary2 Input SHORT	0	0%
Test Auxiliary2 Input OPEN	0	0%
Test Analog Output2 set to 2.0 VDC	5	0.186%
Test Analog Output2 set to 0.0 VDC	1	0.037%
Test Analog Output1 set to 2.0 VDC	2	0.074%
Test Analog Output1 set to 0.0 VDC	0	0%
Test Leak Detect Connected	13	0.483%
Test Leak Detect Disconnected	0	0%
Test Leak Detect Input Low	0	0%
Test Leak Detect Input High	0	0%
Test Alarms Recheck	0	0%
Test Pump A Input 2 Prime with IPA	90	3.346%
Test Pump B Input 2 Prime with IPA	93	3.457%
Test Pump A Input 1 Prime with MeOH	11	0.409%
Test Pump B Input 1 Prime with MeOH	8	0.297%
Test Degasser Pressure	6	0.223%
Test Degasser Switch Setting	6	0.223%
Test Pump A Dynamic Leak - Accum. Leak Rate	66	2.454%
Test Pump A Dynamic Leak - Accum. Percent of Stroke	0	0%
Test Pump A Dynamic Leak - Accum. Max Pressure	25	0.929%
Test Pump A Dynamic Leak - Primary Leak Rate	78	2.9%
Test Pump A Dynamic Leak - Primary Percent of Stroke	4	0.149%
Test Pump A Dynamic Leak - Primary Max Pressure	82	3.048%
Test Pump A Dynamic Leak Low PSI - Accum. Leak Rate	32	1.19%
Test Pump A Dynamic Leak Low PSI - Accum. Percent of Stroke	0	0%
Test Pump A Dynamic Leak Low PSI - Accum. Max Pressure	1	0.037%
Test Pump A Dynamic Leak Low PSI - Primary Leak Rate	66	2.454%
Test Pump A Dynamic Leak Low PSI - Primary Percent of Stroke	0	0%
Test Pump A Dynamic Leak Low PSI - Primary Max Pressure	17	0.632%
Test Pump B Dynamic Leak - Accum. Leak Rate	73	2.714%
Test Pump B Dynamic Leak - Accum. Percent of Stroke	1	0.037%
Test Pump B Dynamic Leak - Accum. Max Pressure	42	1.561%
Test Pump B Dynamic Leak - Primary Leak Rate	65	2.416%
Test Pump B Dynamic Leak - Primary Percent of Stroke	2	0.074%
Test Pump B Dynamic Leak - Primary Max Pressure	78	2.9%

Test Pump B Dynamic Leak Low PSI - Accum. Leak Rate	24	0.892%
Test Pump B Dynamic Leak Low PSI - Accum. Percent of Stroke	1	0.037%
Test Flow Rate Accuracy Pump A 0.5ml/min	42	1.561%
Test Pump B Dynamic Leak Low PSI - Accum. Max Pressure	3	0.112%
Test Flow Rate Accuracy Pump B 2ml/min	9	0.335%
Test Pump B Dynamic Leak Low PSI - Primary Leak Rate	44	1.636%
Test Pump B Pressure Ripple	5	0.186%
Test Pump B Dynamic Leak Low PSI - Primary Percent of Stroke	1	0.037%
Test Flow Rate Accuracy Pump B 0.5ml/min	13	0.483%
Test Pump B Dynamic Leak Low PSI - Primary Max Pressure	20	0.743%
Test Flow Rate Accuracy Pump A&B 1.0ml+1.0ml/min	1	0.037%
Test High Pressure Flow Pump A&B	11	0.409%
Test Dynamic Leak Manifold to Filter Tube	111	4.126%
Test Serial Number Re-verification	6	0.223%
Test Fans	0	0%
Test LEDs	4	0.149%

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- [Acquity Arc QSM Final Test for 186017000 @ LC Pumps V](#)

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Acquity Arc QSM Final Test for 186017000 @ LC Pumps V		
Product	186017000	% of Failure
Tested	2,407	
Pass	1,481	
Fail	926	
Yield	61.529%	
Test Firmware Version	1	0.042%
Test Loader Download	8	0.332%
Test Input D Prime with MeOH	186	7.727%
Test Compositional Accuracy - AC95%AU	95	3.947%
Test Compositional Accuracy - BD95%AU	101	4.196%
Test Compositional Accuracy - BD5%AU	111	4.612%
Test Compositional Accuracy - AC5%AU	111	4.612%
Test Gradient Start Input SHORT	42	1.745%
Test Seal Wash Pump Prime/Flow	31	1.288%
Test Electrical Safety	0	0%
Test Reboot Firmware	3	0.125%
Test Serial Number	0	0%
Test Alarms at Bootup	30	1.246%
Test Gradient Start Input OPEN	0	0%
Test Stop Flow Input SHORT	9	0.374%
Test Stop Flow Input OPEN	0	0%
Test Leak Detect Connected	6	0.249%
Test Leak Detect Disconnected	0	0%
Test Leak Detect Leak	0	0%
Test Alarms Recheck	1	0.042%
Test Input C Prime with MeOH	76	3.157%
Test Input B Prime with MeOH	54	2.243%
Test Input A Prime with MeOH	23	0.956%
Test Degasser Pressure	5	0.208%
Test Dynamic Leak - Accumulator Leak Rate	24	0.997%
Test Dynamic Leak - Accumulator Percent of Stroke	6	0.249%
Test Dynamic Leak - Accumulator Compressed Volume	6	0.249%

Test Dynamic Leak - Accum. Maximum Pressure	6	0.249%
Test Dynamic Leak - Primary Leak Rate	63	2.617%
Test Dynamic Leak - Primary Percent of Stroke	30	1.246%
Test Dynamic Leak - Primary Compressed Volume	30	1.246%
Test Dynamic Leak - Primary Maximum Pressure	30	1.246%
Test Pressure Ripple at 5.0 ml/min	2	0.083%
Test Flow Rate Accuracy 2.5ml/min	37	1.537%
Test Pressure Ripple at 2.5 ml/min	1	0.042%
Test Flow Rate Accuracy 0.3ml/min	128	5.318%
Test Static Leak Decay VV to Mixer1 to VV	86	3.573%
Test Static Leak Decay VV to Mixer2 to VV	12	0.499%
Test High Pressure	11	0.457%
Test Serial Number Re-verification	5	0.208%
Test Fans	0	0%
Test LEDs	2	0.083%
Test Instrument Type	1	0.042%

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