

CHCKLST,TSQ ALTIS/QUANTIS/FORTIS INSTALL

Ticket or Job ID Number			
Company Name			
Contact Name			
Contact Phone Number			
Instrument Laboratory Location			
Instrument Model and Serial Number	☐ TSQ ALTIS	Serial Number(s)	
	☐ TSQ QUANTIS		
	☐ TSQ Fortis		
Roughing pump Model	☐ Sogevac SV65		
	☐ Leybold EcoDry 65 Plus		
	☐ Edwards nXL110i		

TSQ INSTRUMENT CHECKLIST			
1	Review the customer completed <i>Pre-installation Requirements Guide Checklist</i>		☐ Complete ☐ N/A
SETUP			
2	Inspect the ShockWatch tilt indicators on the shipping crate		☐ Complete ☐ N/A
3	Unpack and verify all parts and accessories are present and free of damage		☐ Complete ☐ N/A
4	Power	Line Voltage (V)	☐ Complete ☐ N/A
5	Setup gas connections		☐ Complete ☐ N/A
6	Setup vacuum connections (If N/A, explain details under the comments section) <i>The vent line must be connected to a dedicated fume exhaust system.</i>		☐ Complete ☐ N/A
7	Setup exhaust connections (If N/A, explain details under the comments section) <i>The vent line must be connected to a dedicated fume exhaust system</i>		☐ Complete ☐ N/A
8	Setup data system and MS communication		☐ Complete ☐ N/A
9	Set up peripherals (divert valve and syringe pump assembly)		☐ Complete ☐ N/A
LC FLUSH			
10	Perform LC Flush		☐ Complete ☐ N/A
START UP			
11	Verify spray needle protrusion adjustment		☐ Complete ☐ N/A
12	Pump down MS overnight. <i>Do not turn the MS ON from the Tune page during overnight pump down.</i>		☐ Complete ☐ N/A
VACUUM SPECIFICATIONS		RESULTS	
13	Source Pressure (Ion transfer tube removed)		☐ Complete ☐ N/A
14	Analyzer Pressure (Ion transfer tube removed)		☐ Complete ☐ N/A
15	Source Pressure (Ion transfer tube installed)		☐ Complete ☐ N/A
16	Analyzer Pressure (Ion transfer tube installed)		☐ Complete ☐ N/A
17	Ballast the Roughing Pump(s) when applicable		☐ Complete ☐ N/A

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DIAGNOSTICS		
18	Adjust Adaptive CID Parameters	☐ Complete ☐ N/A
19	Dip Ion Funnel RF (for TSQ Altis only)	☐ Complete ☐ N/A
20	Dip Ion Guide 1	☐ Complete ☐ N/A
21	Dip Ion Guide 3	☐ Complete ☐ N/A
22	Dip Quad RF 1	☐ Complete ☐ N/A
23	Dip Quad RF 3	☐ Complete ☐ N/A
24	Calibrate Devices	☐ Complete ☐ N/A
25	Check Drag Vane Connection	☐ Complete ☐ N/A
26	Evaluate Electrometer Noise Threshold	☐ Complete ☐ N/A
27	Measure Detector Dark Current Noise	☐ Complete ☐ N/A
28	Measure Detector Broadband Noise	☐ Complete ☐ N/A
POSITIVE ION MODE		
29	Achieve stable spray	☐ Complete ☐ N/A
30	Infuse calibrant and verify intensity (full scan)	☐ Complete ☐ N/A
31	Run EM Gain Calibration	☐ Complete ☐ N/A
32	Run Tune and Mass Calibration	☐ Complete ☐ N/A
NEGATIVE ION MODE		
33	Achieve stable spray	☐ Complete ☐ N/A
34	Infuse calibrant and verify intensity (full scan)	☐ Complete ☐ N/A
35	Run EM Gain Calibration	☐ Complete ☐ N/A
36	Run Tune and Mass Calibration	☐ Complete ☐ N/A
MS/MS FUNCTIONALITY		
37	Run Product Spectrum Evaluation diagnostic	☐ Complete ☐ N/A
BAKE OUT		
38	Perform Bake out as needed	☐ Complete ☐ N/A
PERFORMANCE TEST	RESULTS (S/N)	
39	Verify HESI needle alignment	☐ Complete ☐ N/A
40	Demonstrate HESI Negative Ion Mode	☐ Complete ☐ N/A
41	Demonstrate HESI Positive Ion Mode	☐ Complete ☐ N/A
42	Demonstrate APCI Positive Ion Mode	☐ Complete ☐ N/A
CUSTOMER FAMILIARIZATION		
<i>The following topics are to be covered during the familiarization session.</i>		
43	- Operating Hazards - Instrument Startup and Shutdown - System Components - Basic Instrument Software and Hardware Operation - Basic Instrument Preventive Maintenance	☐ Complete ☐ N/A

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DELIVERABLES

These items should be made available to the customer at sign-off.

44	Photographs of boxes and pallets of system as received	☐ Complete ☐ N/A
45	Diagnostic Activity Reports	☐ Complete ☐ N/A
46	Multiplier Gain Calibration Reports	☐ Complete ☐ N/A
47	Tune and Mass Calibration Activity Reports	☐ Complete ☐ N/A
48	Signal-To-Noise Test Reports	☐ Complete ☐ N/A
49	Certificate of Analysis (EMRS Calibration Standard)	☐ Complete ☐ N/A
50	Certificate of Analysis (Reserpine Test Standard)	☐ Complete ☐ N/A
51	Certificate of Analysis (Chloramphenicol Test Standard)	☐ Complete ☐ N/A
52	Certificate of Analysis (Javelin column)	☐ Complete ☐ N/A

SIGN OFF

Customer signature represents acknowledgement that the instrument is installed and operating as intended.

Comments		
Installation Start Date		
Installation Completion Date		
Service Engineer Printed Name		
Service Engineer Signature		Date
Customer Organization		
Customer Contact Number		
Customer Printed Name		
Customer Signature		Date