

ThermoFisher

SCIENTIFIC

Title: Vanquish Neo PMC

Number: IES-CHECKLIST-0004

Revision: 01

It is ultimately the responsibility of the Service Representatives to confirm this document is current prior to use. After 90 days, this copy is not to be used unless confirmed that it has not been superseded, or otherwise gaining written approval (pre-approval form or email) from the customer that this document remains suitable for execution.

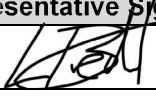

Effective Date: 01 Mar 2023

CHANGE SUMMARY

(Only changes within the last 18 months are listed below.)

Revision Number	Effective Date	Description of Changes
001	See coversheet.	<ul style="list-style-type: none"><li data-bbox="586 453 808 478">• New document

Customer:	MoleQlar Analytics	Equipment Manufacturer:	Thermo Scientific
Customer Contact Name:	Moritz Völker-Albert	Model:	Vanquish Neo System
Engineer Name:	Lukas Brecht	System Serial #:	SYS830420
Pump Serial #:	8344565	Flowmeter Serial #:	2208043
Sampler Serial #:	8344037	Column Compartment Serial # (optional):	6514613
SAP Notification/Job #:	1672435	System Reference ID:	n/a
Procedure(s) utilized:	IES-PMI--0003 Rev. 002	Decontamination:	Yes <input type="checkbox"/> Not Required <input checked="" type="checkbox"/>
		Date PM Performed:	14Dec2023
Consumables		Replaced / N/A	
Solvent line filter frits		Replaced <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	
Silicone tubing		Replaced <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	
PharMed tubing		Replaced <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	
Seal wash seals		Replaced <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	
Piston seals		Replaced <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	
Needle seat		Replaced <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	
Spare Parts		Checked / Replaced / N/A	
Inlet check valve		Checked <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> N/A <input type="checkbox"/>	
Outlet check valve		Checked <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> N/A <input type="checkbox"/>	
Pump pistons		Checked <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> N/A <input type="checkbox"/>	
Seal wash plate screws		Checked <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> N/A <input type="checkbox"/>	
Tubing connector straight		Checked <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> N/A <input type="checkbox"/>	
Tubing connector 90°		Checked <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> N/A <input type="checkbox"/>	
Tubing connector		Checked <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> N/A <input type="checkbox"/>	
Pump head seal, for seal wash plate screw		Checked <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> N/A <input type="checkbox"/>	
Pump head seal, for seal wash plate (O-ring seal, 11x1.5)		Checked <input checked="" type="checkbox"/> Replaced <input type="checkbox"/> N/A <input type="checkbox"/>	
Needle unit		Checked <input type="checkbox"/> Replaced <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	
Scripts		Passed / Failed	
B01 – Change Liquid / Solvents		Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>	
D02 – Test System Tightness		Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>	
D01 – Test System Back Pressure		Passed <input checked="" type="checkbox"/> Failed <input type="checkbox"/>	

Comments:	<ul style="list-style-type: none">- maintenance done after instrument move to new laboratory- instrument operational- customer will run HeLa standards to check system functionality	
Field Service Representative Signature: 		Customer Signature: 
Date: <u>14Dec2023</u> <i>Date not required if using Digital Signature</i>	Date: <u>14Dec2023</u> <i>Date not required if using Digital Signature</i>	

ThermoFisher

SCIENTIFIC

Title: PMC Orbitrap Exploris

Number: ULS-DRS-PMC-0170

Revision: 003

It is ultimately the responsibility of the Service Representatives to confirm this document is current prior to use. After 90 days, this copy is not to be used unless confirmed that it has not been superseded, or otherwise gaining written approval (pre-approval form or email) from the customer that this document remains suitable for execution.

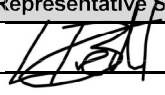
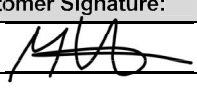
Effective Date: 28 Feb 2022

CHANGE SUMMARY

(Only changes within the last 18 months are listed below.)

Revision Number	Effective Date	Description of Changes
003	See coversheet.	<ul style="list-style-type: none">• Minor additions to checks for updated PMI.• Change PM Tasks to check boxes.• Update formatting.
002	11 Nov 2021	<ul style="list-style-type: none">• Added Date Performed to Header.• Increased size of text entry for vacuum pressure.

Company:	MoleQlar Analytics GmbH	Equipment Manufacturer:	Thermo Scientific			
Customer Contact Name:	Moritz Völker-Albert	Model:	Orbitrap Exploris 240			
Engineer Name:	Lukas Brecht	Serial number:	MM10539C			
SAP Notification/Job #:	1350629	System Reference ID:	n/a			
Procedure(s) utilized:	ULS-DRS-PMI.0094	Decontamination:	<input type="radio"/> Yes <input checked="" type="radio"/> Not required			
	Rev. 003	Date Performed:	11Dec2023-13Dec2023			
Pre- and Post-PM Checks		Passed before PM	Passed after PM	PM readings	Before PM	After PM
Readback and Voltage		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fore Vacuum	1.61 mbar	1.64 mbar
Lens Connectivity Check		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IS5 vacuum	n/a	n/a
Ion Optics Maintenance Check		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HCD vacuum (gas off)	0.00 mbar	0.00 mbar
Quadrupole Maintenance Check		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	UHV vacuum (gas on)	5.3e-11 mbar	n/a
(Pre or post) PM / Service Procedures		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
PM Tasks		Done		Data System	Recorded Value	
Check customer archived data and methods		<input checked="" type="checkbox"/>		Computer (Dell Service Tag)	CJ205G3	
Fore pump gas ballasts opened for 15 minutes		<input checked="" type="checkbox"/>		Operating system	Win10 Enterprise LTSC	
Oil exchanged		<input checked="" type="checkbox"/>		Xcalibur version	4.5 SP1	
Dust filters replaced		<input checked="" type="checkbox"/>		Tune version	Exploris Tune 4.1	
Fans checked and replaced if required		<input checked="" type="checkbox"/>		Foundation	3.1 SP8	
Vacuum hoses inspected and replaced if required		<input checked="" type="checkbox"/>		SII	1.7	
N2 supply checked and acceptable		<input checked="" type="checkbox"/>				
Ion Transfer Tube seal exchanged		<input checked="" type="checkbox"/>				
API cage clean (Funnel, sweep cone, inject filter, etc.)		<input checked="" type="checkbox"/>				
Quadrupole and Bent Flatapole clean		<input checked="" type="checkbox"/>				
HESI sprayer clean		<input checked="" type="checkbox"/>				
Optamax NG housing clean		<input checked="" type="checkbox"/>				
Oil mist filters on pumps exchanged		<input checked="" type="checkbox"/>				
Oil reservoir on turbomolecular pump replaced		<input checked="" type="checkbox"/>				
Software updated		<input type="checkbox"/>				
Post-PM procedures successful		<input checked="" type="checkbox"/>				

Measurement & Test Equipment			
Calibration Date:	Next Due Date:	Make/Model:	Identification #:
17May2022	17May2024	SafetyTest 1LT V2 RCD	UL100096
-----	-----	-----	-----
Comments:	- PM performed in combination with instrument move to a different laboratory; pre-PM checks done on old site, cleaning, calibration and post-PM checks done on new site - UHV gauge not ignited after bakeout; trapping gas evaluation not possible		
Field Service Representative Signature:		Customer Signature:	
			
Date: 14Dec2023	Date: 14Dec2023		Date: 14Dec2023
Date not required if using Digital Signature		Date not required if using Digital Signature	