



RTP 41[®] Tablet Press IQ/OQ



We don't just sell machines—we provide service.

LFA Signature Identification



Prepared by	Name	Title	Date
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Approved by	Name	Title	Date
Manufacturing	Angus Wang	Purchasing	
Engineering			
Quality	Russell Crispin	Quality Control	

Disclaimer

This IQ/OQ is intended as a guide only and is not an exhaustive list. All qualification tests will need to be adapted to the industry and product, following industry regulations and the material safety data sheets that come with specific products. Please check with your Quality Control Manager/Department or other relevant internal departments at your company before using.

Comments:	
Reviewed By:	Date

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Purpose and Background

The purpose of this Installation Qualification (IQ)/Operational Qualification (OQ) Protocol is to establish documented evidence that the RTP 41[®] and its ancillary systems have been installed according to the system specifications, have been configured per applicable manufacturer's recommendations, design specifications, and process requirements, and performs the intended functions as specified in the protocol.

Scope

Equipment

This IQ/OQ Protocol applies to the following equipment:

Items	System Information
URS Reference	N/A
Factory Acceptance Testing (FAT) Reference	
Project Master Validation Plan Number	N/A
Site Master Validation Plan Number	N/A
Equipment Name/Description	RTP 41/Rotary Tablet Press
Manufacturer	LFA Machines
Version Number	1
Serial Number	
Equipment ID Number or Asset Number	
Previous Qualification/Validation Number(s) (if applicable)	N/A
Is system new, modified, moved, periodic review, or revalidation?	
If revalidation, attach necessary change control document(s) and record attachment number. Provide reason for revalidation.	

Comments:	

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System Requirements

This IQ/OQ Protocol applies to the following system requirements:

System Requirement	Target
Output Speed Target	118,800 tablets per hour
Availability	90% (10% of potential availability taken up by cleaning, maintenance, etc.)
Quality Rate	+/-5% accuracy on tablet weight and hardness
Overall Equipment Effectiveness (OEE)	90-95%
Crew Target	1 person

Comments:	
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Responsibilities

The table below displays information regarding the individuals involved in developing this qualification protocol.

Department/Individual	Responsibilities
Validation Author	 Develops the process validation plan, protocol, and report. Confirms accuracy and completeness of the validation and qualification deliverables.
Validation Project Leader	 Defines validation and qualification deliverables (i.e., process validation plan, protocol, and report, project monitoring, protocol execution). Acquires inputs from any needed technical experts to determine the activities appropriate to the validation. Identifies the resources required to conduct the validation.
Technical Representative	 Provides knowledge with regard to the equipment/process/ product undergoing validation and qualification. Provides assistance to the Validation Project Leader with respect to the technical aspects of the equipment/process/ product. Provides help with study designs, acceptance criteria, and statistical analysis, as necessary.
Quality Assurance/Quality Management	 Reviews and approves validation and qualification documentation. Ensures that each document is complete, accurate, and compliant with applicable validation requirements. Reviews and approves deficiencies that occur during validation.

Comments:		
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General Requirements

Completion of Installation Qualification (IQ) and Operational Qualification (OQ) shall be governed by the following general guidelines:

- Prior to starting any test case, the individual(s) involved in the test execution shall be trained on both the protocol and applicable procedure(s) required to execute the test cases.
- Except for the protocol approvers, each person who performs or reviews any section of tests within this document must complete the Signature Identification sheet.
- All tests that require the person executing the protocol to make a comparison, calculation or
 a judgment of satisfactory completion, will include a "Pass" or "Fail" column. This section will
 require the person executing the protocol to enter the disposition of each test or test step as
 appropriate.
- Any discrepancy encountered during execution will be documented as a deviation and will
 require analysis to determine the root cause, assessment of deviation risk, and corrective
 action recommendation, including repeat testing as appropriate. The deviation must be
 reviewed and approved prior to completing the associated test case. Each deviation shall
 be sequentially numbered and listed in a supported report log. The corresponding test case
 should reference the related deviation number.
- All test instruments used in the execution of this protocol must have a current calibration
 certification, traceable to NIST or applicable international standards. When the certificates for
 these instruments are held in the quality system (i.e., site calibration program), a verification of
 certification is sufficient. For all other instruments, current calibration must be demonstrated
 through calibration certificates.
- Any comments regarding the test case(s) will be recorded on the data sheets under the "Comments" section.
- The "Reviewed By" signature line will be signed by an independent reviewer who has read the respective test case and agrees with execution and conclusions.
- All supporting documentation and attachments must be identified or labeled with the minimum
 of the identification number, pagination (page of page), protocol number, and applicable test
 case(s).

General Acceptance Criteria

- The test case is successful and passes when all test steps meet the acceptance criteria.
- Successful completion of the protocol is achieved when all test cases have been successfully completed and all deviations resolved.

Comments:	
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Codes and Abbreviations

Code	Meaning
amps	Amperes
CE	Certification mark that indicates conformity with health, safety, and environmental protection standards sold within the European Economic Area
°C	Degree centigrade
Dev No.	Deviancy number
IQ	Installation Qualification
kg	Kilogram
kN	Kilonewton
mm	Millimeter
NIST	National Institute of Standards and Technology
Nm	Newton meter
OQ	Operational Qualification
PPE	Personal protective equipment
RH	Relative humidity
RTP®	LFA registered trademarked term meaning rotary tablet press

Comments:	
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Equipment and Process Description

RTP 41[®] Process

The basic mechanism of the RTP 41[®] involves filling the Tooling (Die, Upper Punch, and Lower Punch) with powder, compressing the powder, and ejecting the tablet.

Filling the Tooling with Powder

The dry materials are poured into the Hopper, which funnels the powder into the Fill Tray. As the machine operates, the Turret moves, which causes the Upper Punches to withdraw from the Dies. During this process, powder is moved by the Turret and is guided into the Die Bores by the Fill Tray.

Compressing the Powder

After the Die Bore is filled with powder, the Upper Punches are driven into the Dies. The Upper and Lower Punches then compress the powder under high pressure.

Ejecting the Tablet

After both punches compress the powder into a tablet, the Upper Tooling is withdrawn and the tablet is then pushed out of the Die Bore by the Lower Punch. Once the tablet has been ejected out of the Die Bore, it is slid out of the way by the Fill Tray's Take-Off Blade to prepare for the next tablet compression.

Comments:	
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Test Equipment

Equipment	Serial Number	Calibration Certificate Number	Calibration Date	Initial and Date
Compact force gauge				
Calipers				
Graduated steel ruler				
Indoor thermometer				
Hygrometer				
Multimeter				
Belt tension gauge				

Comments:		
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TEST No. TDD01		PACKING LIST				
Purpose of Test						
To confirm	the	presence	of the packing list with the appro	priate information.		
Method						
1	Locate packing list with the shipping container.					
2	Confirm the package list includes description of products, quantity, net weig and gross weight.					
Results						
Test			Acceptance Criteria	Pass/Fail		
1		Description	n of products is present.			
2		Quantity of	products is present.			
3		Net weight	of shipment is present.			
4		Gross weig	ght of shipment is present.			
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)		

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TEST No. TDD02		QUALIFICATION CERTIFICATE					
Purpose o	Purpose of Test						
To confirm	the	presence	of CE qualification certificate.				
Method							
1	Ins	pect the CE	certification.				
2	Со	Confirm signature of authorized LFA personnel.					
Results							
Test			Acceptance Criteria	Pass/Fail			
1		CE qualific	ation certificate is complete.				
2		Signature of present.	of authorized LFA personnel is				
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

Comments:	
Reviewed By:	Date:





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TEST No. TDD03		FACTORY ACCEPTANCE TEST REPORT AND QUALITY CONTROL CHECKLIST					
Purpose of	Purpose of Test						
To confirm the presence of factory acceptance test (FAT) report.							
Method							
1	Ins	pect the FA	T report.				
2	Со	Confirm quality control checklist from LFA Taiwan location is included.					
Results							
Test			Acceptance Criteria	Pass/Fail			
1		FAT report	is complete.				
2		Quality cor location is	ntrol checklist from LFA Taiwan complete.				
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

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The objective of Document Qualification is to confirm the presence and validity of the appropriate documents.

TEST No. RT4D01		MATERIAL CERTIFICATE							
Purpose of	of Te	est							
To confirm	the	presence (of materials certificate.						
Method									
1	Poi	int of contac	ct materials are certified by third	party.					
2	Со	nfirm mater	ials are accurate to LFA standard	I.					
Results									
Test			Acceptance Criteria	Pass/Fail					
1			aterial is confirmed to be cainless steel.						
2		Turret mate 250.	erial is confirmed to be cast iron						
3		Fill Tray ma bronze QS	aterial is confirmed to be tin N-6-3.						
4		Tooling is ouser specific	confirmed to be material that fied.						
5		Ejection Tray material is confirmed to be SUS304 stainless steel.							
6		Fill Tray So confirmed Zn, respec							
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)					

Disclaimer

This materials certificate does not come with the machine. The point of contact materials on the machine must be tested and certified by a third party.

Comments:	
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TEST No. TDD05		PRODUCT MANUAL						
Purpose o	Purpose of Test							
To confirm	To confirm the presence of product manual.							
Method								
1	Find the RTP 41® product manual at https://www.lfatabletpresses.com/ product-data in Product Manuals section.							
2	Confirm produ	ct manual link is accessible.						
Results	Results							
Test	est Acceptance Criteria Pass/Fa							
1	Product manual PDF is accessible and can be downloaded.							
Result	Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)					

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TEST No. TDD06		ELECTRICAL WIRING DIAGRAM						
Purpose of	of Test							
To confirm	To confirm the presence of electrical wiring diagram.							
Method								
1	Find the appropriate product manual at https://www.lfatabletpresses.com/ product-data in Product Manuals section.							
2	Inspect the electrical wiring diagram in the product manual's appendix.							
Results	Results							
Test		Acceptance Criteria	Pass/Fail					
1	Electrical within the	wiring diagram is accessible manual.						
Result	Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)					

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The objective of Installation Position and Space Qualification is to confirm the space and environmental conditions required for installation and operation.

TEST No. RT4IS01		WORKSPACE SURFACE						
Purpose of	of Test							
1	To confirm the workspace surface accounts for the machine's weight and force exerted by machine and user.							
Method								
1	Ensure workspace surface supports machine's weight of 1677 kg (around 3697 lbs).							
2	Ensure the workspace surface supports an additional 613 kg (around 1351 lbs).							
Results	Results							
Test	Test Acceptance Criteria Pass/Fail							
1	Workspace surface is sturdy enough to support 2290 kg (around 5048 lbs).							
Result	Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)					

Disclaimer

Consult either a civil engineer or building manager to complete and verify the workspace surface qualification test.

Comments:	
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The objective of Installation Position and Space Qualification is to confirm the space and environmental conditions required for installation and operation.

TEST No. TDIS02		WORKSPACE TEMPERATURE						
Purpose o	of Te	est						
To confirm	the	workspace	e's temperature levels are accept	able for machine operation.				
Method								
1	Ме	Measure the workspace's temperature with an indoor thermometer.						
Results								
Test			Acceptance Criteria	Pass/Fail				
1	Workspace temperature measures within 18-24 °C (64-75 °F).							
Result Dev No. Completed by (Initial/Date)		Verified by (Initial/Date)						

Comments:	
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Installation Position and Space Qualification

RTP 41[®] - Serial Number

objective of Installation Position and Space Qualification is to confirm the space and ironmental conditions required for installation and operation.								
TEST No. HUMIDITY TDIS03								
Purpose of Test								
To confirm	the workspac	e's relative humidity levels are ac	ceptable for machine operation.					
Method								
1	Measure the	workspace's humidity with a hygro	ometer.					
Results								
Test Acceptance Criteria Pass/Fail								
1	Workspac within 45-							
Result	Dev No.	Verified by (Initial/Date)						
1 Results Test	Workspac within 45-	Acceptance Criteria e relative humidity measures	Pass/Fail					

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The objective of Safety Measures Qualification is to confirm that machine installation meets requirements of safe production.

TEST No. RT4SM01		LIFTING EQUIPMENT							
Purpose of Test									
To confirm	that	the proper	lifting equipment is available for	mounting the machine.					
Method	Method								
1	Ens	sure forklift	and lifting strap are available.						
2		nsure lifting strap supports the machine and does not induce any swinging tilting of the machine.							
Results									
Test			Acceptance Criteria	Pass/Fail					
1		Forklift and	I lifting strap are in position.						
2		-	p is secure and supports the weight in a balanced way.						
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)					

Comments:	
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The objective of Safety Measures Qualification is to confirm that machine installation meets requirements of safe production.

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TEST No. TDSM03		PERSONAL PROTECTIVE EQUIPMENT						
Purpose o	of To	est						
	To confirm user has access to the following items of personal protective equipment (PPE) for use during machine operation.							
Method								
1	En	sure protec	tive equipment is on hand before	using the machine.				
Results								
Test			Acceptance Criteria	Pass/Fail				
1		Steel toe b	oots are in possession.					
2		Heavy duty	grip gloves are in possession.					
3		Back supp	ort belt is in possession.					
4		Safety gog	gles are in possession.					
5		Disposable possession						
6			d/or beard net are in n (if applicable).					
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)				

Comments:		
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Safety Measures Qualification

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The objective of Safety Measures Qualification is to confirm that machine in requirements of safe production.					machine installation meets	
	No. MAX TIGHTENING TORQUE ON BOLTS TDSM04					
	Purpose of	f Test				
	To confirm	bolts on the m	achine are	secure.		
	Method					
	Use a torque wrench to ensure the max tightening torque of major machin bolts are appropriate.					
	Results					
	Test		Acceptanc	e Criteria	Pass/Fail	
	1	Dies' bolts	are 4.3 Nm			
	2	Fill Tray So	craper's scr	ew is 16.2 Nm.		
	Take-Off Blade's screw is 4.3 Nm.					
	4 Upper Cam Housing's bolts are 4.3 Nm.					
	5 Upper Tracking's bolt is 153 Nm.					
	Result	Dev No.	Complet	ed by (Initial/Date)	Verified by (Initial/Date)	

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The objective of Safety Measures Qualification is to confirm that machine installation meets requirements of safe production.

TEST No. RT4SM05		CORRECT LOCAL VOLTAGE					
Purpose of	f Te	st					
To confirm	that	the worksp	ace has the correct local voltage	e for the machine.			
Method							
1	En	nsure the workspace has the correct voltage.					
Results							
Test	Test Acceptance Criteria Pass/Fail						
Workspace electrics support 220 V or 440 V.							
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

Disclaimer

Consult a licensed electrician to complete and verify the correct local voltage qualification test.

Comments:	
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The objective of Equipment Appearance Qualification is to confirm no damage to the machine's appearance during installation.

TEST No. TDEA01		NAMEPLATE				
Purpose o	of Te	est				
To confirm clear.	tha	at the name	plate is securely fixed onto the m	achine and its information is		
Method						
1	En	sure that th	e nameplate is securely fitted to	the machine.		
2		sure that th	e nameplate contains details that e.	are pertinent to the operation		
Results	Results					
Test			Acceptance Criteria	Pass/Fail		
1		Nameplate	is present.			
2		Nameplate	displays machine name.			
3		Nameplate	displays version number.			
4		Nameplate	displays serial number.			
5		Nameplate requiremen	displays voltage and powernts.			
6		Nameplate	displays motor type.			
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)		

Comments:	
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The objective of Equipment Appearance Qualification is to confirm no damage to the machine's appearance during installation.

TEST No. TDEA02		MACHINE BODY AND WIRING						
Purpose of	of To	est						
To confirm	ı tha	at the mach	ine has no obvious damage to bo	ody and/or wiring.				
Method								
1	1	Inspect the machine body for obvious indentations, spots, scratches, cracks, or any other damages.						
2	Ins	pect the wi	ring, cables, and electrical box fo	or damage.				
Results								
Test			Acceptance Criteria	Pass/Fail				
1 Machine body has no obvious dan			ody has no obvious damage.					
2		Machine's wiring, cables, and electrical box have no damage.						
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)				

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The objective of Production and Output Qualification is to confirm the maximum production and output values of the machine.

TEST No. RT4OQ01		ELECTRICAL OUTPUT LEVELS							
Purpose of Test									
To confirm	To confirm that the machine's kilowatt, voltage, and ampere levels are correct.								
Method									
1	Use a multime	e a multimeter to measure the machine for each unit.							
Results									
Test		Acceptance Criteria	Pass/Fail						
1	Maximum	kilowatts is 4.0.							
2	Maximum	volts is 220 or 440.							
3	Maximum	amps is 32.							
Result	Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)						

Disclaimer

Consult a licensed electrician to complete and verify the electrical output levels qualification test.

Comments:	
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TEST No. RT4OQ02		MAXIMUM PRESSURE						
Purpose of	f Te	st						
To confirm	that	the machin	e's maximum pressure level is a	ccurate.				
Method								
1		Remove the Tooling from the press in accordance with product manual nstructions (found at https://www.lfatabletpresses.com/product-data).						
2		Use a compact force gauge to record the maximum pressure exerted by the Upper Roller Cam.						
Results								
Test			Acceptance Criteria	Pass/Fail				
1		Maximum (0.3 kN tol	oressure produced is 80 kN erance).					
Result	ult Dev No.		Completed by (Initial/Date)	Verified by (Initial/Date)				

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TEST No. RT4OQ02		MAXIMUM PRESSURE						
Purpose of	f Te	st						
To confirm	that	the machin	e's maximum pre-pressure level	is accurate.				
Method								
1	ı	Remove the Tooling from the press in accordance with product manual nstructions (found at https://www.lfatabletpresses.com/product-data).						
2	ı	Use a compact force gauge to record the maximum pressure exerted by the Pre-Pressure Upper Roller Cam.						
Results								
Test			Acceptance Criteria	Pass/Fail				
1		Maximum (0.3 kN tol	ore-pressure produced is 80 kN erance).					
Result	Result Dev No.		Completed by (Initial/Date)	Verified by (Initial/Date)				

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TEST No. RT3OQ03		MAXIMUM TABLET DIAMETER								
Purpose of	Purpose of Test									
To confirm	To confirm that the machine's maximum tablet diameter is 12 mm.									
Method										
1	ı	nstall 12 mm Tooling in press in accordance with product manual instructions found at https://www.lfatabletpresses.com/product-data).								
2	ı	Produce a test tablet using Firmapress as a control mix (purchase at https://www.lfatabletpresses.com/ready-mix-firmapress).								
3	Ме	Measure the test tablet with a set of calipers.								
Results										
Test			Acceptance Criteria	Pass/Fail						
1	Maximum tablet diameter produced is 12 mm (+/-5%).									
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)						

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TEST No. RT4OQ04		MAXIMUM TABLET THICKNESS					
Purpose o	Purpose of Test						
To confirm	tha	t the machir	ne's maximum tablet thickness 6	mm.			
Method							
1	l '	Adjust Tooling to increase tablet thickness in accordance with product manual instructions (found at https://www.lfatabletpresses.com/product-data).					
2	Produce a test tablet using Firmapress as a control mix (purchase at https://www.lfatabletpresses.com/ready-mix-firmapress).						
3	Measure the test tablet with a set of calipers.						
Results							
Test			Acceptance Criteria	Pass/Fail			
1	Maximum tablet thickness produced is 6 mm (+/-5%).						
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

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TEST No. RT4OQ05		MAXIMUM FILLING DEPTH				
Purpose of	Te	st				
To confirm	that	the machin	e's maximum fill depth level is 15	5 mm.		
Method						
1		•	to increase fill depth in accordance and at https://www.lfatabletpres	-		
2	Tur	n the Hand	le until the Lower Punch is fully le	owered.		
3	Insert a pipe cleaner (or anything similar that is non-abrasive) into the Die bore.					
4	Ма	Mark the point at which the pipe cleaner meets the Die bore's edge.				
5	Measure the fill depth with a graduated steel ruler.					
Results						
Test	Acceptance Criteria Pass/Fail					
1	1 Maximum fill depth is 15 mm (+/-5%).					
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)		

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TEST No. RT2OQ06		MAXIMUM HOURLY TABLET PRODUCTION					
Purpose of	Purpose of Test						
	To confirm that the machine's maximum hourly tablet production level is approximately no less than approximately 182,040.						
Method							
1		Automatically operate the machine for one minute using Firmapress as a test mix (purchase at https://www.lfatabletpresses.com/ready-mix-firmapress).					
2	Re	Record the tablet amount produced in one minute.					
3	Calculate the hourly output by multiplying the tablet amount by 60.						
Results	Results						
Test			Acceptance Criteria	Pass/Fail			
Maximum hourly tablet production is approximately 182,040 pieces (+/-5%).							
Result		Dev No.	Completed by (Initial/Date)	Verified by (Initial/Date)			

Comments:		
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Protocol Deviation Log



RTP 41 [®] - Serial Number	
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Record each of the deviations raised during the completion of the protocol and the date the deviation is resolved.

Deviation No.	Deviation Description	Date Resolved	Initial and Date

Comments:		
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