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LABWORKS 7.2 Installation Certification Document

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LABWORKS Installation Certification Document

The LABWORKS Installation Certification Document provides a set of tests that can be executed by the customer to certify that their install or upgrade is working as expected.

This document describes the Test Configuration, Test Execution and Expected Results.

Following will be the high level workflow for the tests to be performed:

- Setting up an analysis code (one for each type- single component, multi component, container)
- Setting up a location code
- Logging a sample
- Entering results
- Importing data (using scan daemon, multi component transfer and PR6)
- Performing calculations using the built-in calculation engine and excel
- Validating results
- Generating a report
- Creating a QA/QC batch

Pre-requisites

LABWORKS configurations as defined in Installation Guide and Admin Guide.

Test Summary

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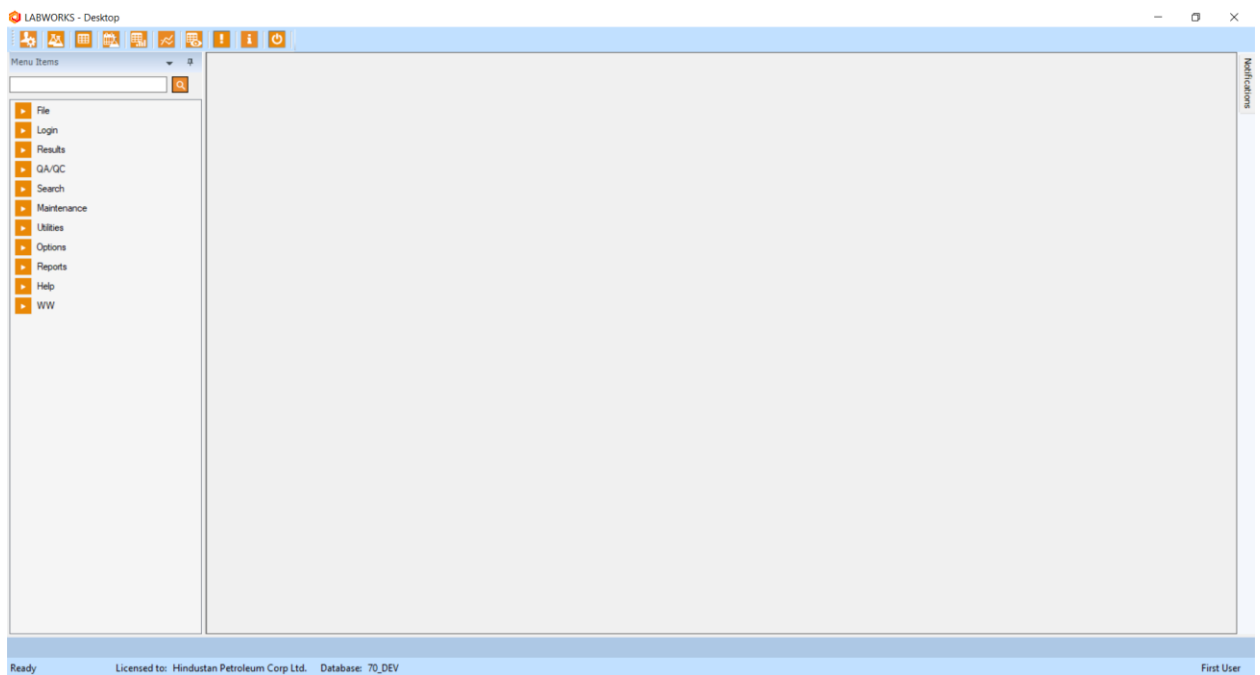
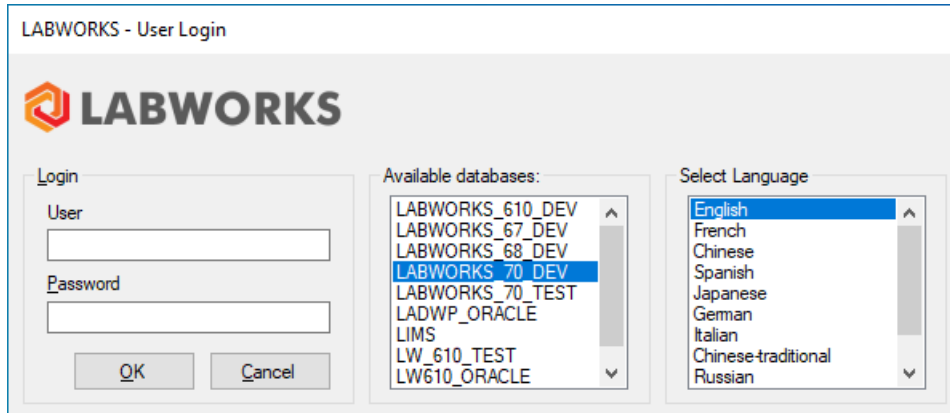
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Installation Tests

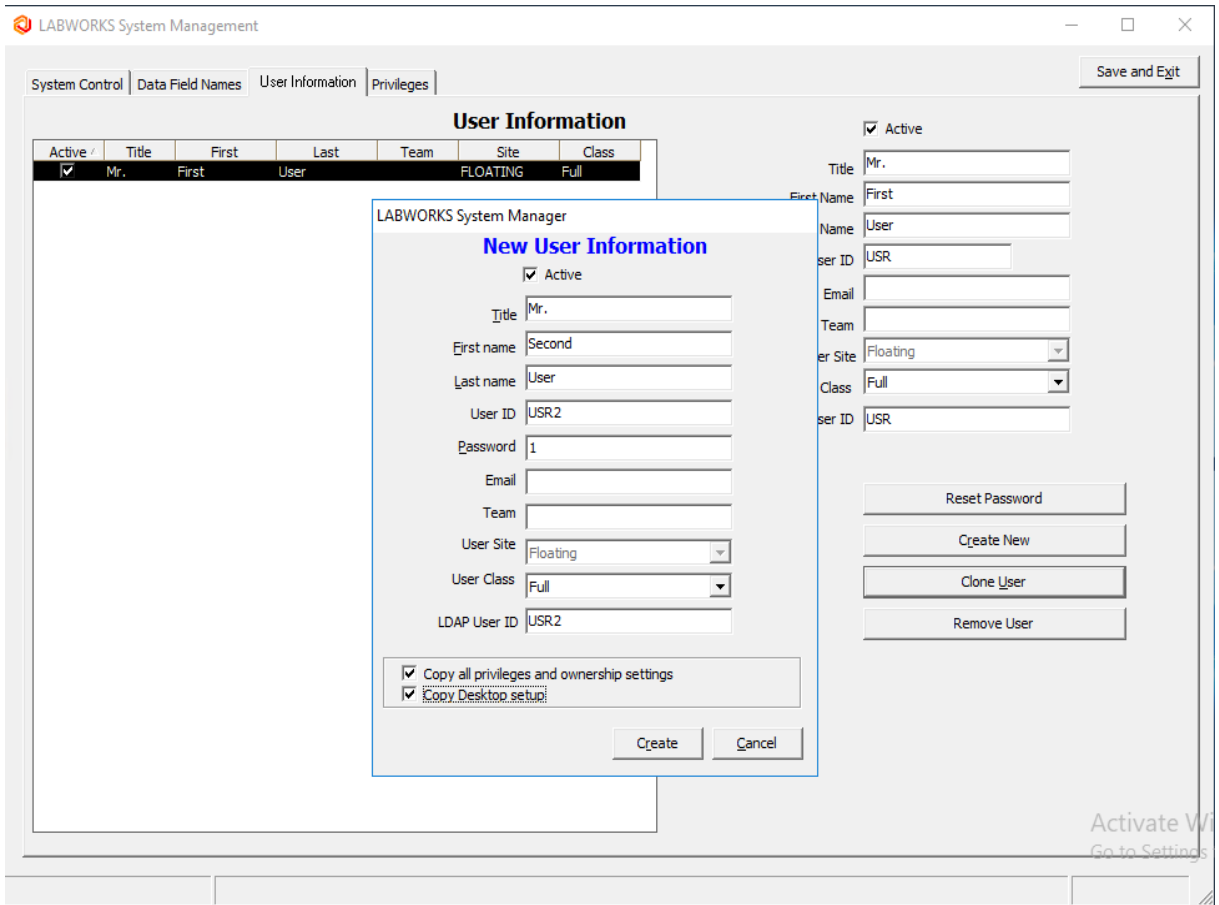
1. User Management

1.1. Create User

- 1) Launch LABWORKS Application and enter username/password credentials



- 2) Navigate to File → SYSTEM MANAGER application. Click on “Create New” button. Enter user information and click “Create” button. Configure user privileges.



LABWORKS System Management

System Control | Data Field Names | User Information | Privileges | Ownership Save and Exit

User Information

Active	Title	First	Last	Team	Site	Class
<input type="checkbox"/>	A	A	A	A	FLOATING	Read Only
<input type="checkbox"/>	Mr	B	B		FLOATING	Read Only
<input checked="" type="checkbox"/>	MR.	Create	User		Site1	Full
<input checked="" type="checkbox"/>		Dhawal	Mokashi		FLOATING	Full
<input type="checkbox"/>		FOURTH	USER		Site1	Read Only
<input checked="" type="checkbox"/>	Mr.	Kiran	Desai	BAT	FLOATING	Full
<input checked="" type="checkbox"/>	Mr	LAB	Test		FLOATING	Read Only
<input checked="" type="checkbox"/>			LABWORKSTest		FLOATING	Full
<input checked="" type="checkbox"/>		Mayur	Kendre		FLOATING	Full
<input checked="" type="checkbox"/>		Meeta	Padhye		FLOATING	Full
<input type="checkbox"/>		New	User		FLOATING	Full
<input checked="" type="checkbox"/>		Onkar	Narkhede		FLOATING	Full
<input type="checkbox"/>		OWNERSHIP	CHECK		FLOATING	Full
<input checked="" type="checkbox"/>		Sahil	A. Deshpande		FLOATING	Full
<input type="checkbox"/>	Ms	SQL	db	bluebird	FLOATING	Full
<input checked="" type="checkbox"/>	Mr	Second	User		FLOATING	Full
<input checked="" type="checkbox"/>	Mr.	Test_	User		FLOATING	Full
<input checked="" type="checkbox"/>	Mr.	TEST12	TEST12		FLOATING	Full
<input checked="" type="checkbox"/>	Mr.	T10	T10	BAT	FLOATING	Full
<input checked="" type="checkbox"/>	Mr.	Test2	Test2		FLOATING	Full
<input checked="" type="checkbox"/>	Mr	T3	T3		FLOATING	Full
<input checked="" type="checkbox"/>	Mr	T4	T4		FLOATING	Full
<input checked="" type="checkbox"/>	Mr	T5	T5		FLOATING	Full
<input checked="" type="checkbox"/>	Mr	T6	T6		FLOATING	Full
<input checked="" type="checkbox"/>	Mr	T	t		FLOATING	Full
<input checked="" type="checkbox"/>		Third	User		FLOATING	Full
<input checked="" type="checkbox"/>	Mr	First	Last		Site1	Full
<input checked="" type="checkbox"/>	Analyst	First	User		Site1	Full
<input checked="" type="checkbox"/>		Second	Last		Site1	Login
<input checked="" type="checkbox"/>		Fourth	Last		Site1	Full
<input checked="" type="checkbox"/>		Fifth	Last		Site1	Full

Active

Title:

First Name:

Last Name:

User ID:

Email:

Team:

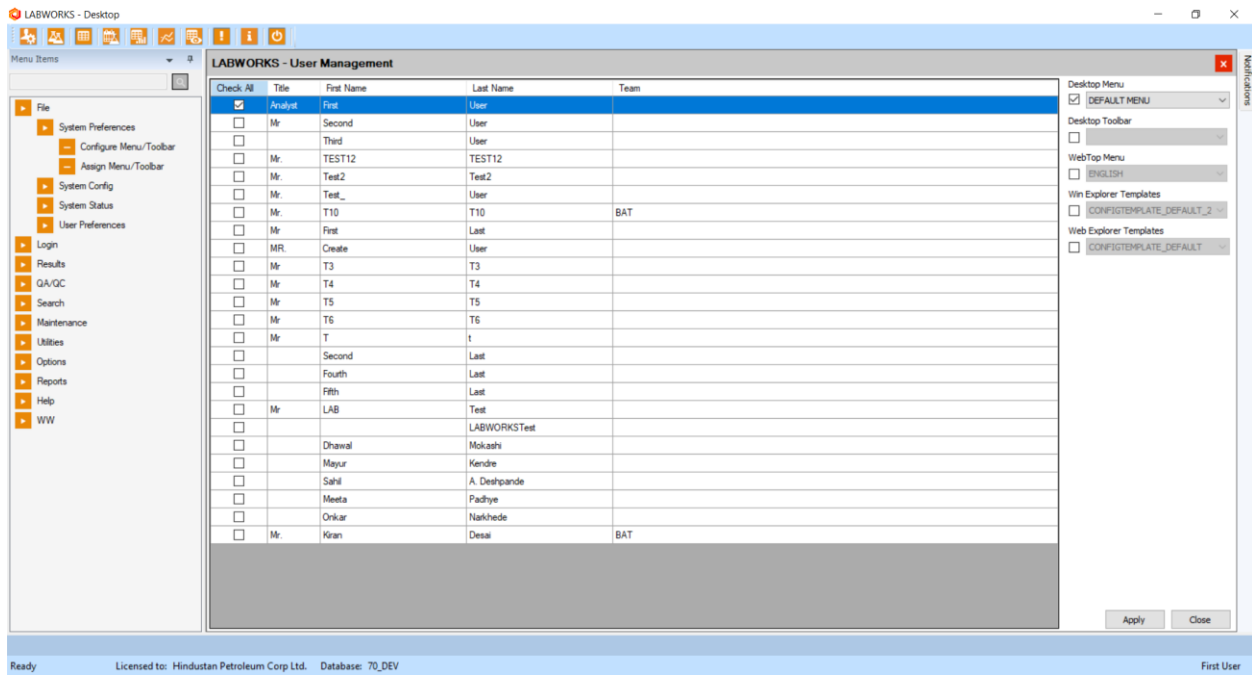
User Site:

User Class:

LDAP User ID:

1.2. Assign Menu

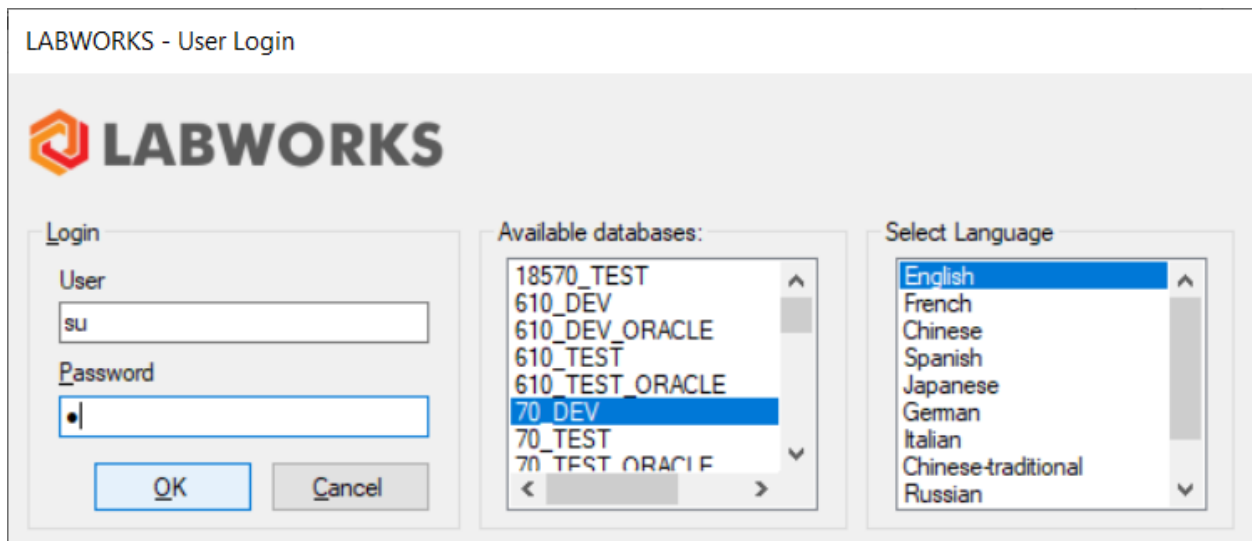
- 1) Assign default menu to the newly created user.

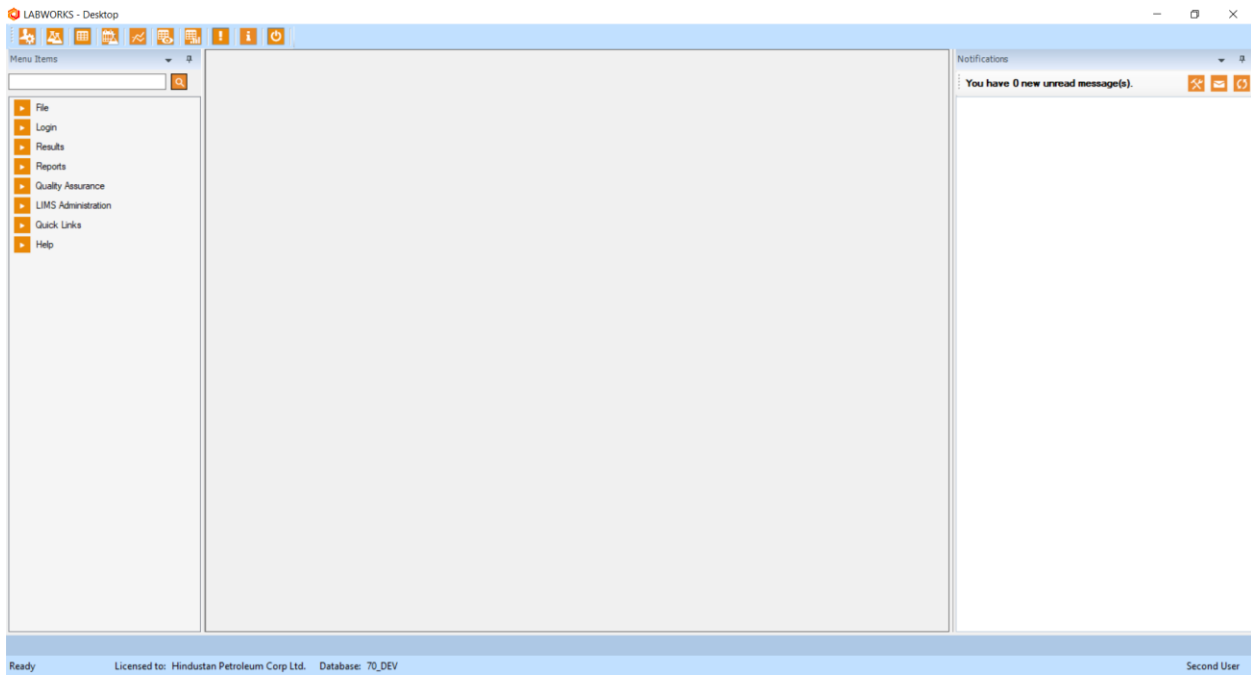


2. Location List Maintenance

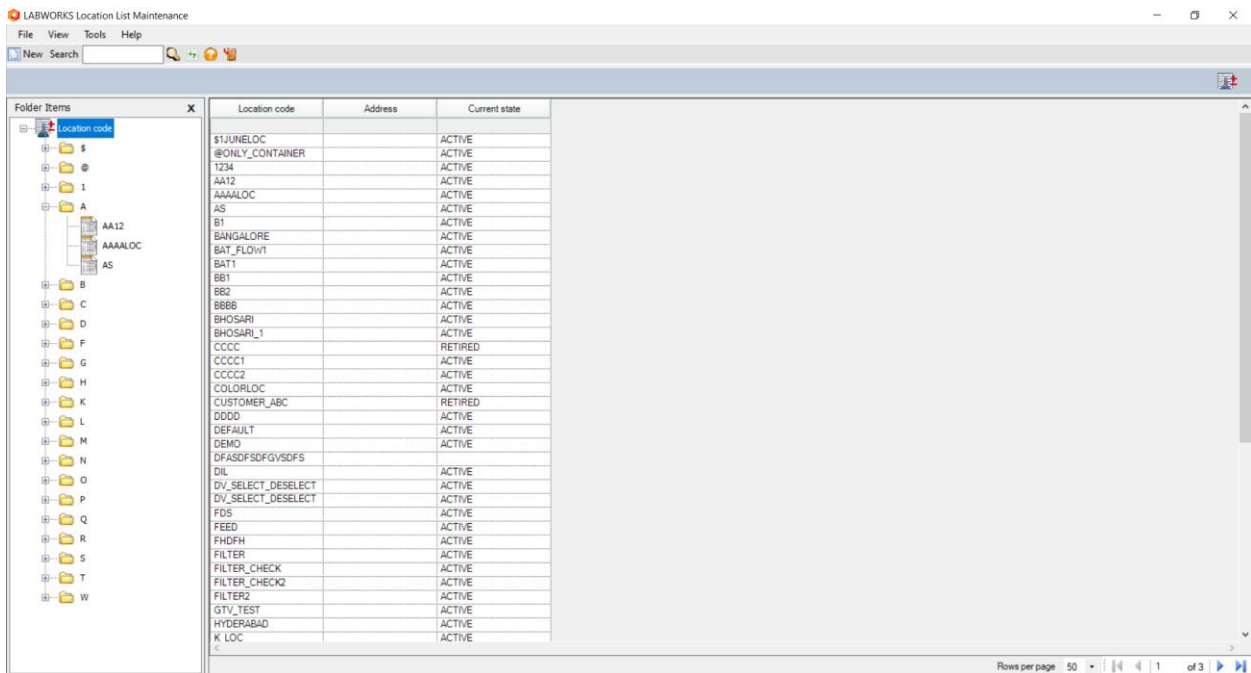
2.1. Create Location Code

- 1) Launch LABWORKS Application and login using newly created user.





2) Click on Location List option



3) Click on 'New' Button

4) Enter following information

1. Location code
2. Location Description
3. Hold Days

4. Select Due date base option
5. Select Invoice Samples check box
6. Select Validate Sample Check box
7. Select Check Specification Check box
8. Disk Copy Final Report Check box
- 5) Click on Apply
- 6) Click on OK

Create/Modify Location Code

Location code: LAB1

Location description: [Empty]

Project account code: -NONE-

Invoice samples
 Validate samples
 Check specifications
 Disk copy final report

Special info form: [Empty]

Hold days: 0
 Due date base option:
 Collection date
 Submittal date

Location Code Definition Owner: [Dropdown]
 Sample Owner: [Dropdown]
 Location Code / Sample Read Owner: [Dropdown]

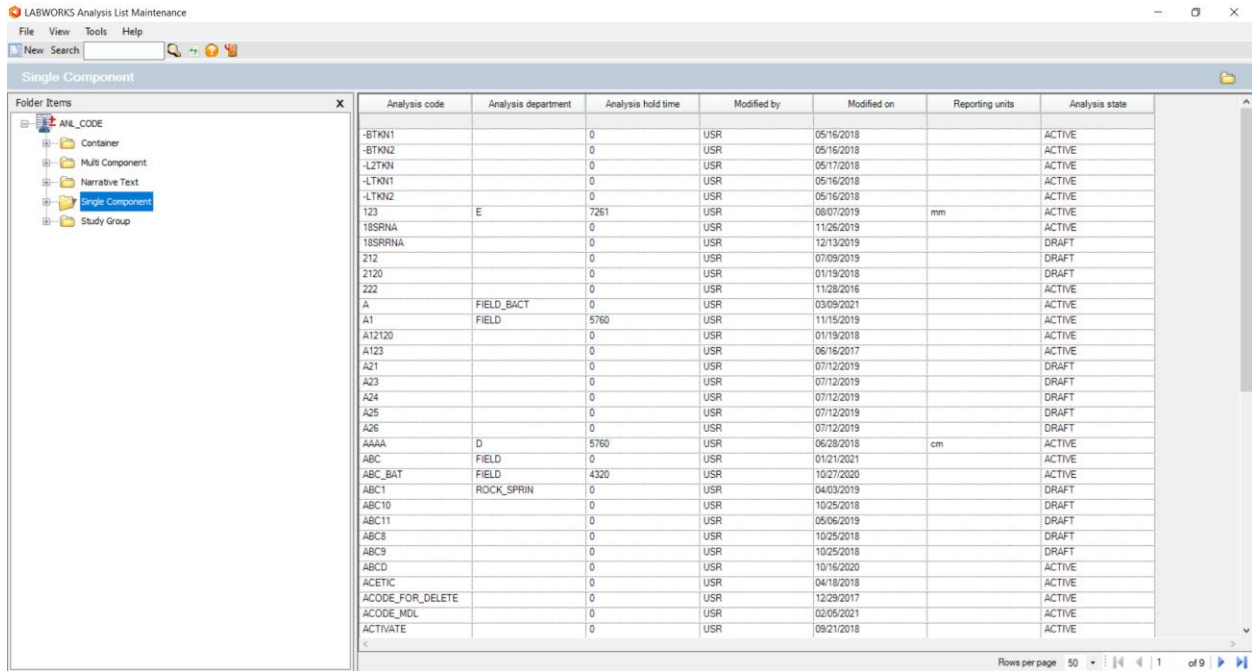
- 7) Location code should be added in Location Code list. (e.g. LAB1)

3. Analysis Maintenance Application

3.1. Create Analysis Code

1) Launch Analysis Maintenance.

Click on Analysis List maintenance application. Click on New button on 'LABWORKS Analysis List Maintenance' window.



2) 'Add/Edit Analysis' window should open.

- 1. Single Component Analysis:** Click New. Enter Analysis code and Analysis name. Click Apply. Click OK. Select the newly created Analysis code and right click. Select ANALYSIS_ACTIVATE option.

Add/Edit Analysis
— □ ×

Analysis
ASpecifications
Calculation
Special Info
Result Source
Audit Info

Analysis

Analysis code : <input style="width: 90%;" type="text" value="TEST"/>	Analysis name : <input style="width: 90%;" type="text" value="TEST Analysis"/>
Method reference : <input style="width: 90%;" type="text" value="When Privilege is not there In Res"/>	CAS number : <input style="width: 90%;" type="text"/>
Price : <input style="width: 40%;" type="text" value="0"/> <input type="button" value="Container"/> <input type="button" value="Matrix"/>	Work units : <input style="width: 40%;" type="text" value="0"/>
	Special info form: <input style="width: 40%;" type="text" value="FIRST_SI_FORM"/> <input type="button" value="Browse"/>

Routing details :

 Department :

Replicate Settings

 # Of Replicates

Reportable

Invoiceable

Processing

 Set Analysis To

Hold times

 Days
 Hours :
 Mins :

Regulation hold time

 Days
 Hours :
 Mins :

Quantitation details

Reporting units :	Default MDL :	PQL :
<input style="width: 90%;" type="text" value="ml"/>	<input style="width: 90%;" type="text" value="0.5"/>	<input style="width: 90%;" type="text"/>

Default Qualifier

 Default Qualifier:

Round off for calculations

Significant figures places

Use MDL places

Use Ranges

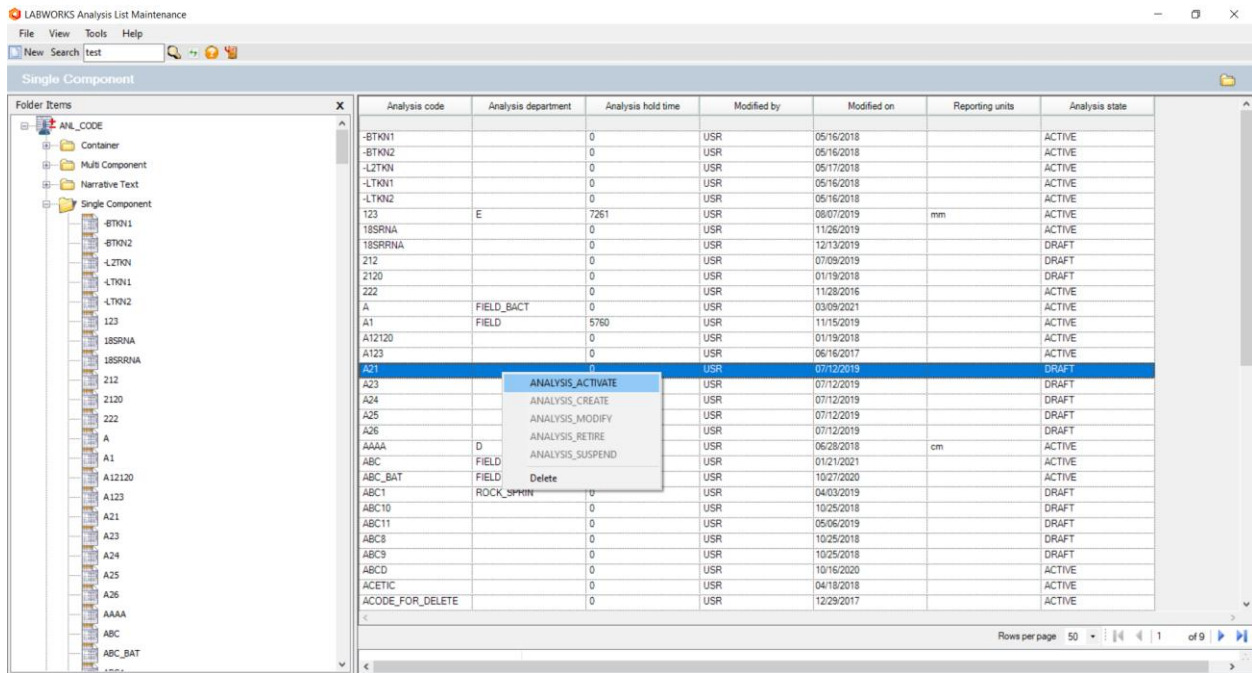
Ownership

 Analysis Definition Owner

Sample Analysis Owner

Analysis Reader

TEST



- Multi-Component Analysis:** Click New. Enter Analysis code starting with \$ and enter Analysis Name=. Click Apply. Click OK.

Add/Edit Analysis

Analysis Components ASpecifications Calculation Special Info Result Source Audit Info

Analysis

Analysis code : \$2163_WT% Analysis name : \$2163_WT% Analysis

Method reference : [dropdown]

Price : 0 [Container] [Matrix] Work units : 0 Special info form: [Browse]

Routing details : Department : [text] Reportable Invoiceable

Replicate Settings # Of Replicates 0 Processing Set Analysis To N/A Select Replicate From N/A

Hold times Days 0 Hours : 0 Mins : 0

Regulation hold time Days 0 Hours : 0 Mins : 0

Multicomponent details Component list file : Report all specified components Add unspecified components

Quantitation details Reporting units : [text] Default MDL : [text]

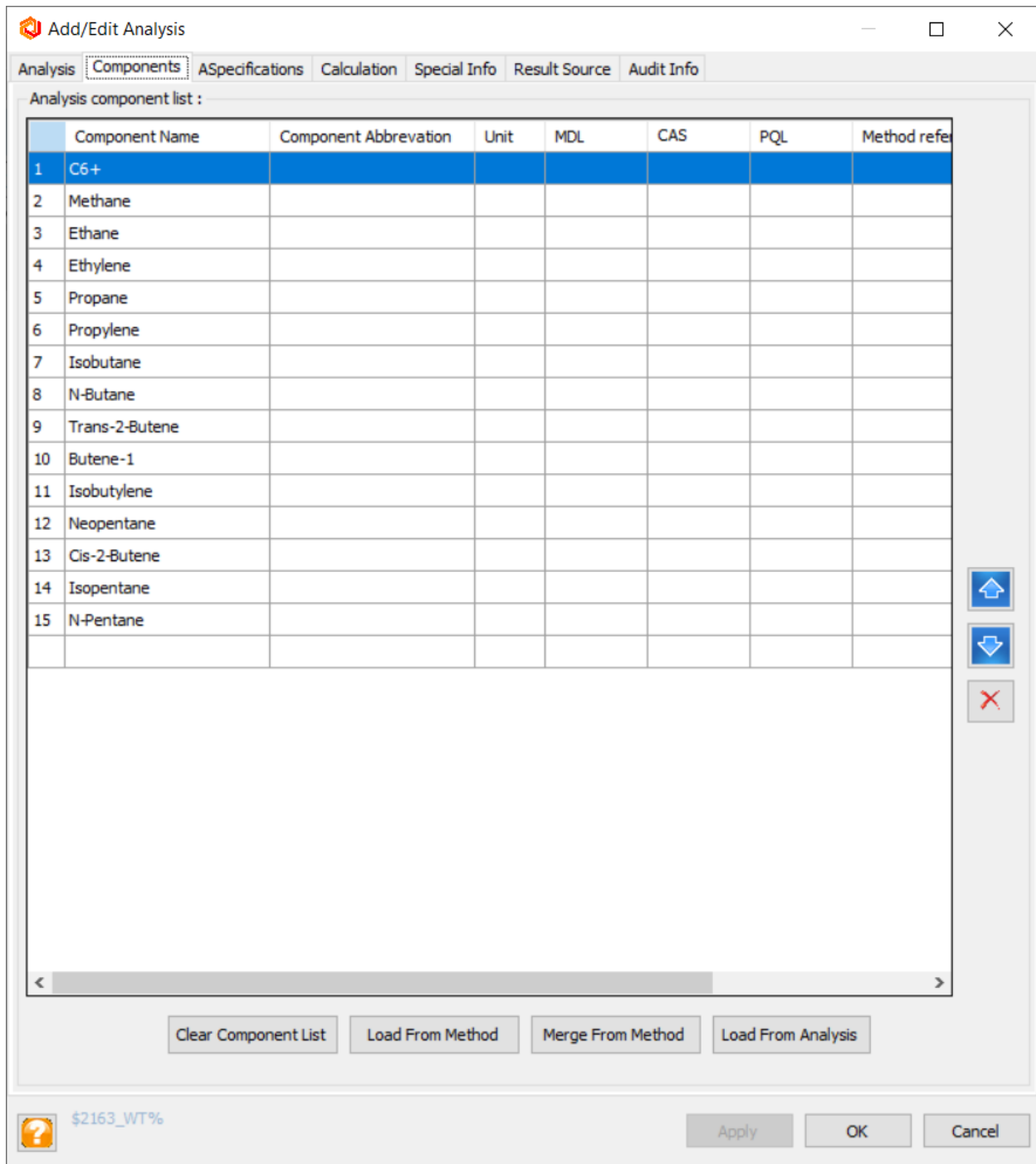
Default Qualifier Default Qualifier: [text]

Round off for calculations Significant figures 6 places Use MDL places

Ownership Analysis Definition Owner [dropdown] Sample Analysis Owner [dropdown] Analysis Reader [dropdown]

\$2163_WT% [Apply] [OK] [Cancel]

Go to Components tab and add Analytes. Click Apply. Click OK.



Select the Analysis code and right click. Select ANALYSIS_ACTIVATE option.

- 3. Container Analysis:** Click New. Enter Analysis code starting with @. Click Apply. Click OK. Select the Analysis code and right click. Select ANALYSIS_ACTIVATE option.

4. **Narrative Analysis:** Click New. Enter Analysis code starting with ! Click Apply. Click OK. Select the Analysis code and right click. Select ANALYSIS_ACTIVATE option.

5. **Study Group Analysis:** Click New. Enter Analysis code starting with #. Click Apply.

Add/Edit Analysis

Analysis Study Analysis Audit Info

Analysis

Analysis code : #ANL105

Analysis name : #ANL105 Analysis

Matrix

Department :

Ownership

Analysis Definition Owner

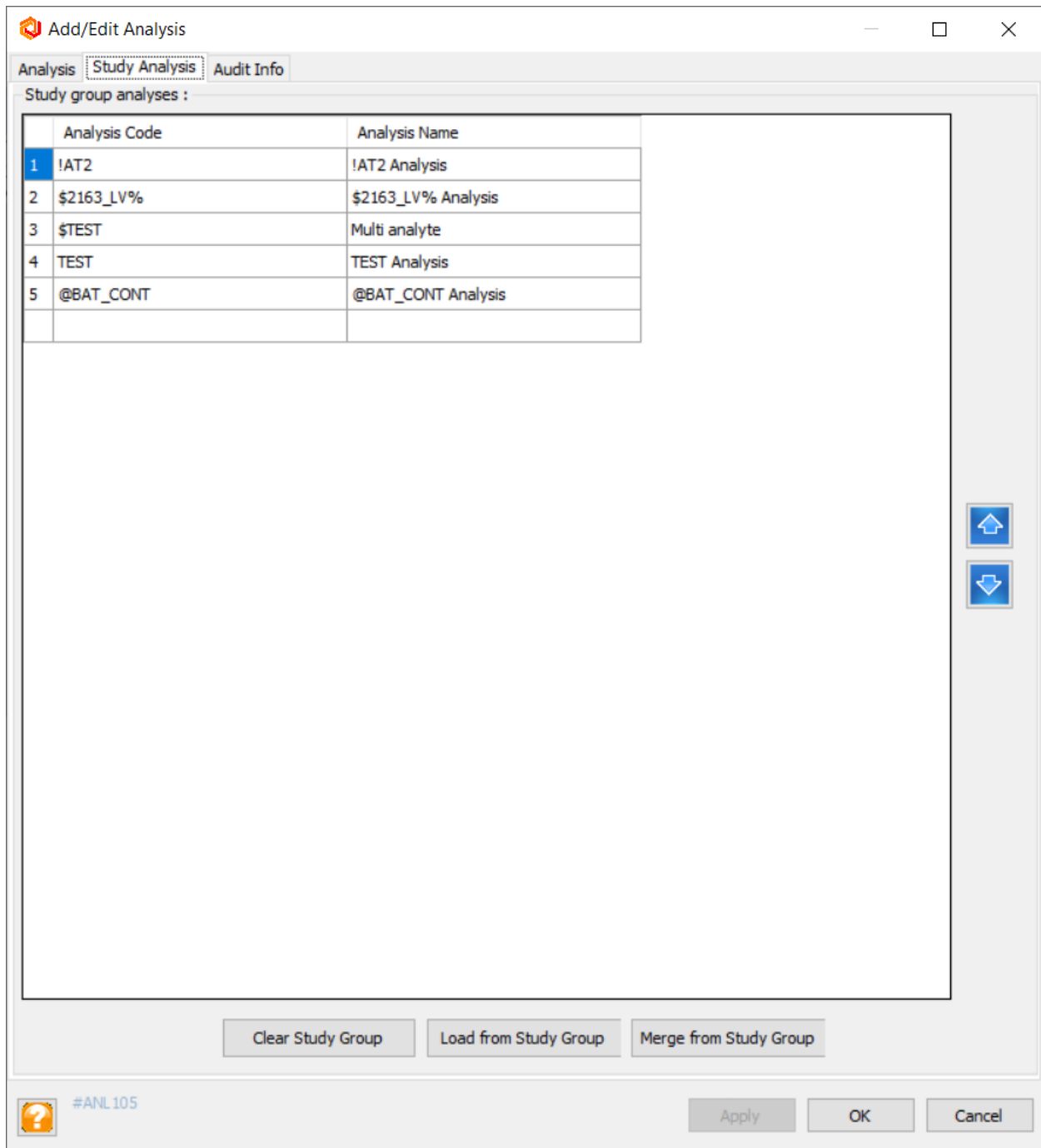
Sample Analysis Owner

Analysis Reader

? #ANL105

Apply OK Cancel

Go to second tab and add analyses. Click Apply. Click OK.

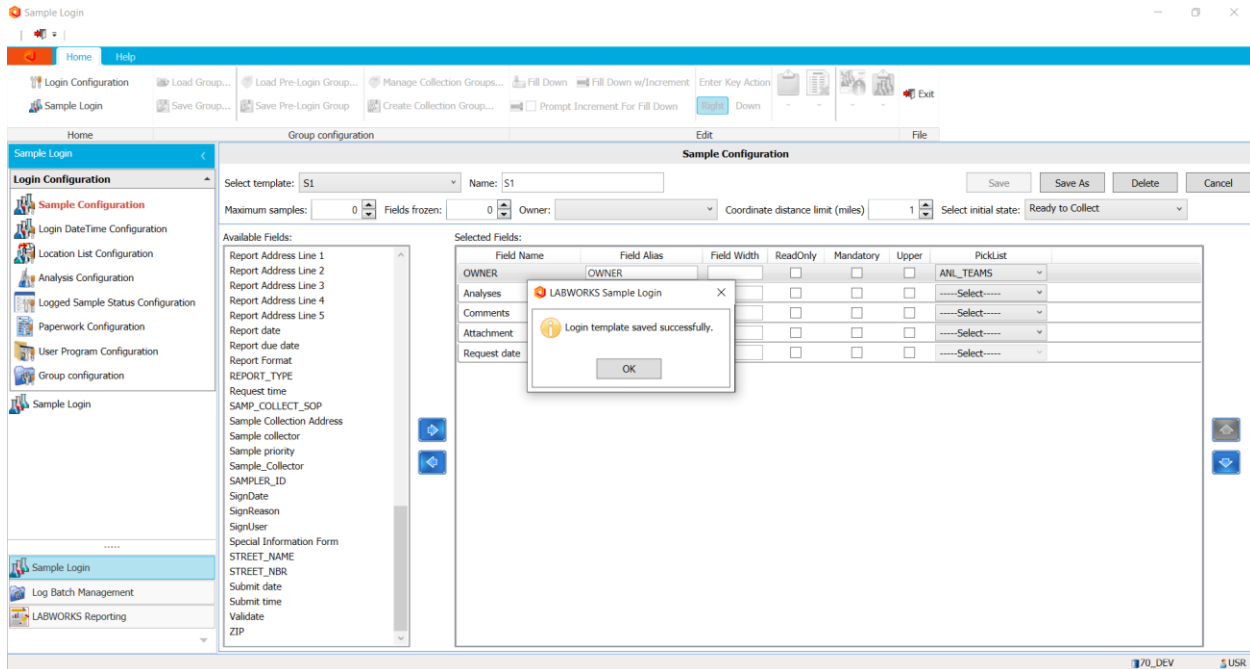


4. Sample Login

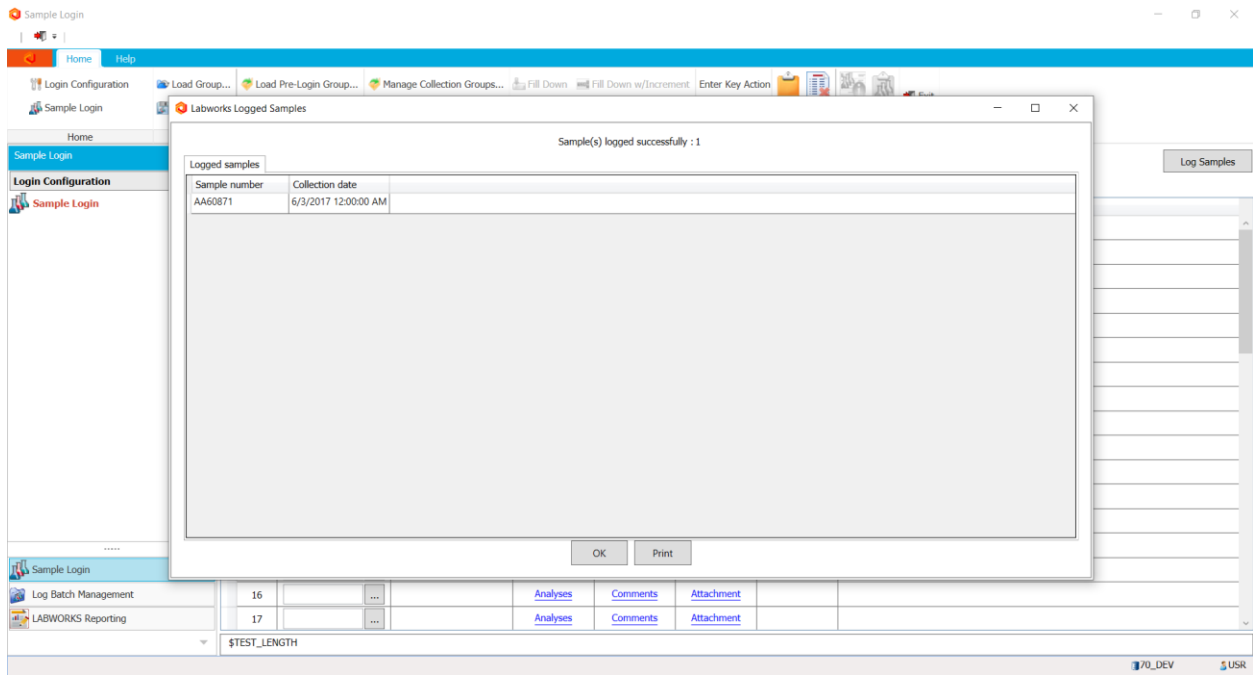
4.1. Login a sample

- 1) Click on 'LWSampleLogin.exe' application. Select database, enter username, password and click on 'Ok' button. Click on 'Login Configuration' menu from toolbar. Click on 'Select Template' dropdown.

- 2) Enter name of the new template to be added in 'Name' textbox. Select any one field from 'Available Fields' list and click on forward arrow. Verify selected field name after adding it to 'Selected Fields'. Click on 'Save' button.
- 3) 'Login template saved successfully' message should be displayed.



- 4) From 'Sample Login' window, select template name created in the previous step. Click on ellipsis button for the location code from the grid. Select one or more location code and click on close button.
- 5) Change the Replicate Settings from Analysis Details pop-up message. Enter number of Replicates, Set analysis To, Select Replicate From fields.
- 6) Click on 'Log Samples' button. Click on 'OK' button.
- 7) Application should log new samples and display 'Labworks Logged Samples' window.



5. Result Entry

5.1. Result Entry

- 1) Click on ' ResultsEntry6.exe ' application. Click on Result Entry. Select Sample ID. Enter Sample Number. Click on View Selections. Click on Enter Selection.

LABWORKS Result Entry

File Help

Available templates 2016_TEMPLATE

Sample IDs

Search for samples by:

- Sample IDs
 - Location Code
 - Mysampno
 - Labworks Log Batch No.
 - Report Number
 - Last selected samples
 - Cross Reference Search
 - External Files
 - Pasted list of samples
 - Stepped Query
 - QAQC Batches
 - Analyses Awaiting Results
 - Analyses Awaiting Validation

Selection Criteria

Enter or scan Sample ID: Speed View

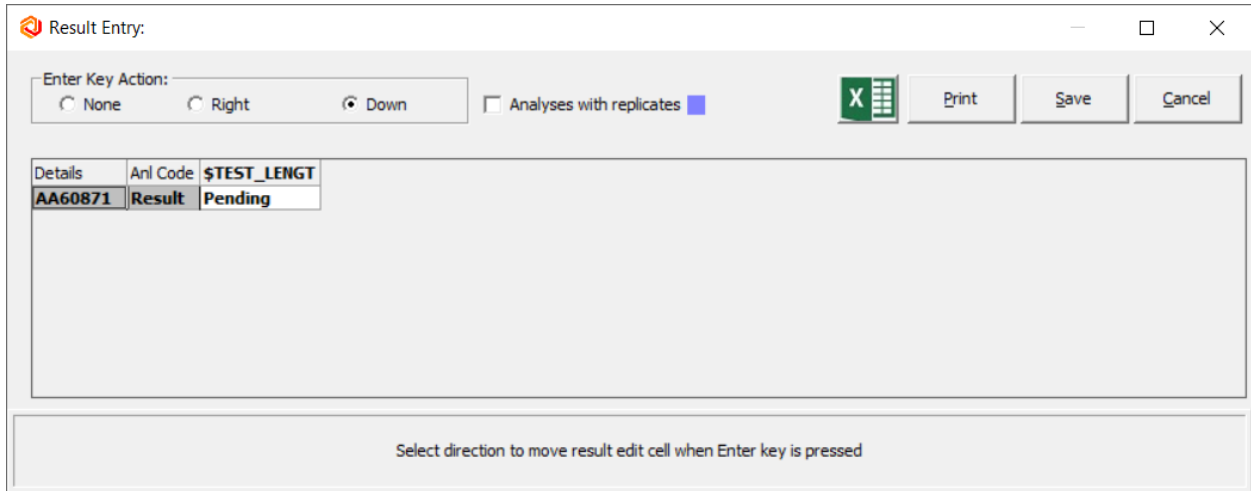
Sample ID is AA60871

View Selections Enter Selection Cancel

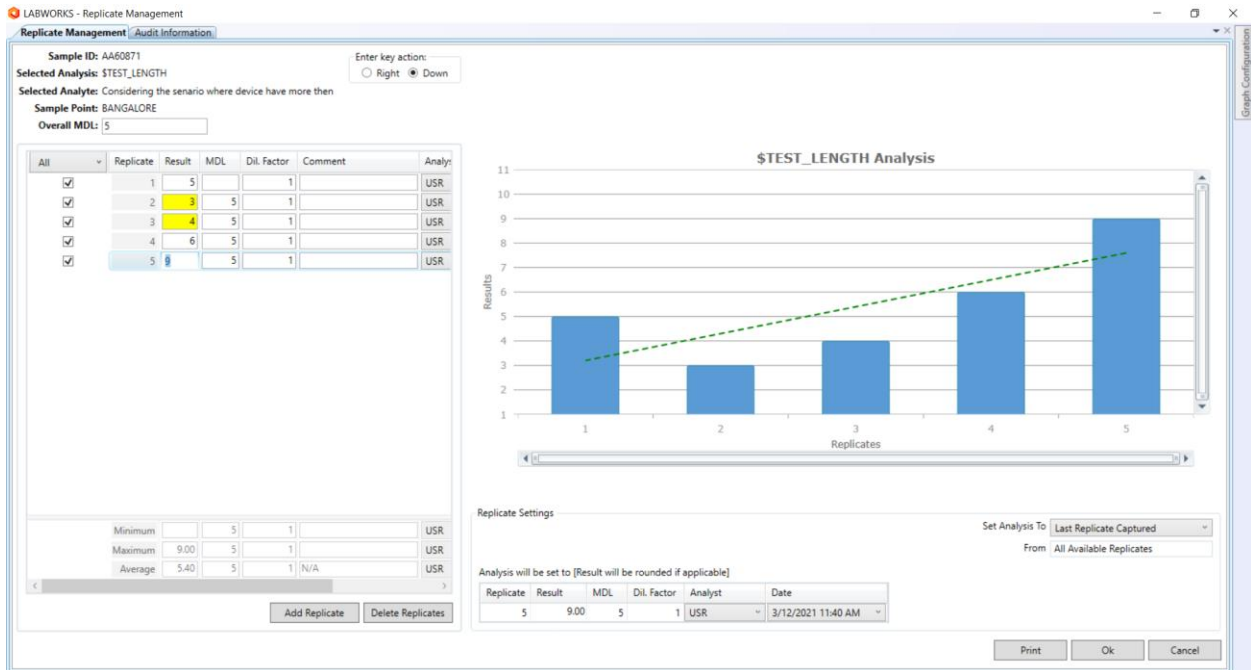
Uncheck All	Sample ID	Location code	Sample status	Collection date
<input checked="" type="checkbox"/>	AA60871	BANGALORE	Ready to Collect	03/06/2017 00:00

Number of samples found: 1

- 2) In Result Entry window, enter results for all analysis.



- 3) User should be able to view already added replicate information for single and multi-component analysis samples.
- 4) If logged-in user has “Add/Delete replicates” rights then replicates should be added or deleted and result value should be changed accordingly.



- 5) Click on “Store Results” button for Multi-Component Analysis.

Component Result Entry for Sample

Sample ID: AA60871
 Analysis: sTEST_LENGTH
 Location code: BANGALORE
 Result file: manual entry

Validated: No
 Units: MYSAMPNO:

Container ID: N/A

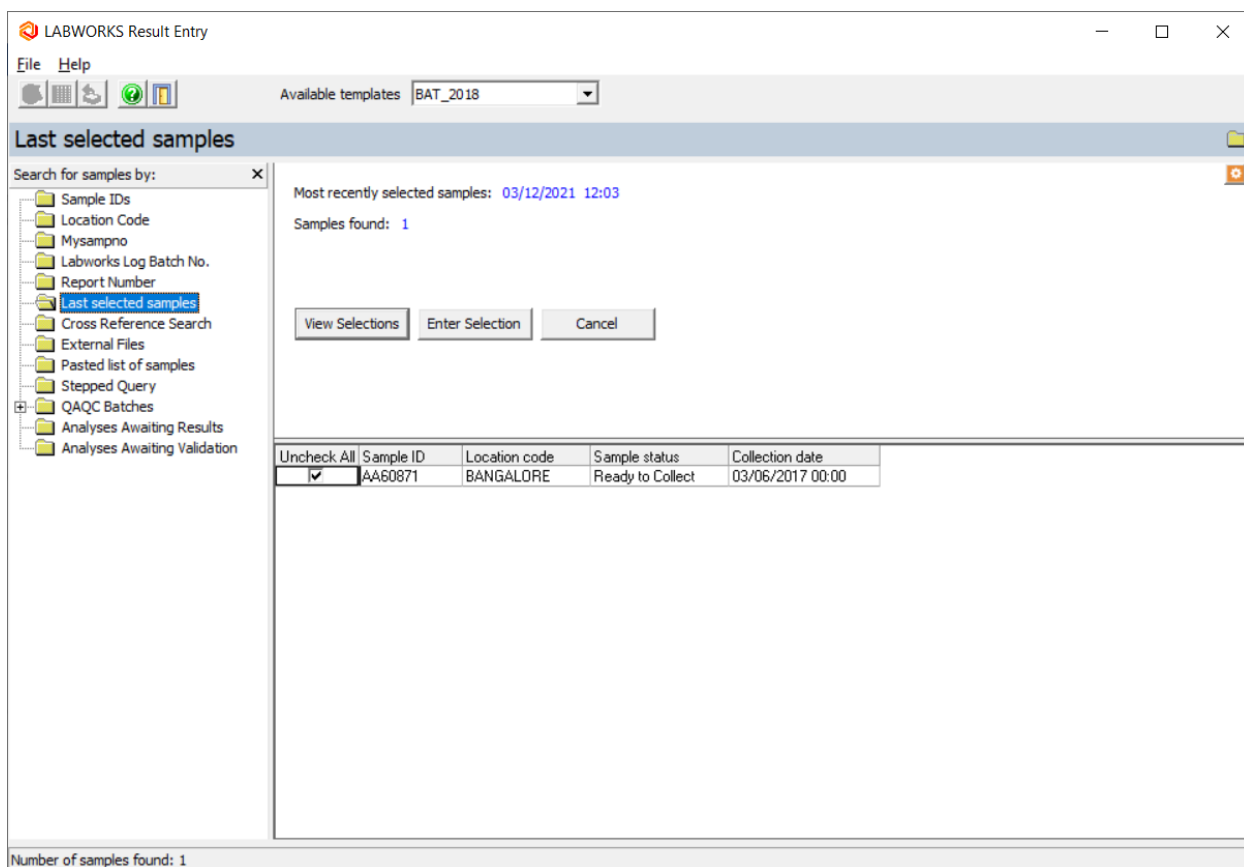
Start date: 3/12/2021 Start time: 11:38 Dilution factor: 1
 End date: 3/12/2021 End time: 11:38 Analyst: USR
 Preparation date: Preparation time:

Analyses waiting for replicates input

Component Name	Vol	Result	Units	MDL	PQL	Sec Result	qualifier	Raw Result	Result Method	% Factor	Analyst	Start Date	Time	End Date	Time	Manag
1 Considering the scenario where di		5.40		5				5.00		1	USR	03/12/2021	11:38	03/12/2021	11:38	Manag
2 ABC		6		5						1	USR	03/12/2021	11:38	03/12/2021	11:38	Manag
3 H2O		7		5						1	USR	03/12/2021	11:38	03/12/2021	11:38	Manag
4 Silicon		5		5						1	USR	03/12/2021	11:38	03/12/2021	11:38	Manag
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Buttons: Load Results, Clear Results, Display SOP, Sample Comments, Analysis Comment, Print Spec Info, Samp Spc Info, Validate, QA/QC Batch Inventory, Print, Store and Move Next, Store Changes, Cancel Changes

- 6) Click on "Save" button for analysis other than Multi-Component.
- 7) Select Last Selected Samples. Click on 'View Selection'. User should view previously stored results.



6. Importing Results

6.1. Result Entry

6.1.1. PR6 File Format – Single Component

- 1) Pre-requisite -
 1. Create Analysis SC1, SC2.
 2. Create new Sample with analysis SC1 and SC2.
 3. Create PR6 input file for the newly created samples.
- 2) Launch ResultsEntry6.exe. Go to Import instrument Results. Select Labworks PR6 file format. Select PR6 input file. Click ok.
- 3) Click "Save" on Result Entry Screen.

6.1.2. PR6 File Format – Multi-Component:

- 1) Pre-requisite -
 1. Create Analysis \$TestMCT with components A and B.
 2. Create new Sample with analysis \$TestMCT.
 3. Create PR6 input file for the newly created samples.
- 2) Launch ResultsEntry6.exe. Select sample created in step 1. Go to Modify Results for \$TestMCT Multicomponent Analysis. Click on Load Result. Select Labworks PR6 file format. Select PR6 input file.

- 3) Click on Store Result. Click on Save Results.

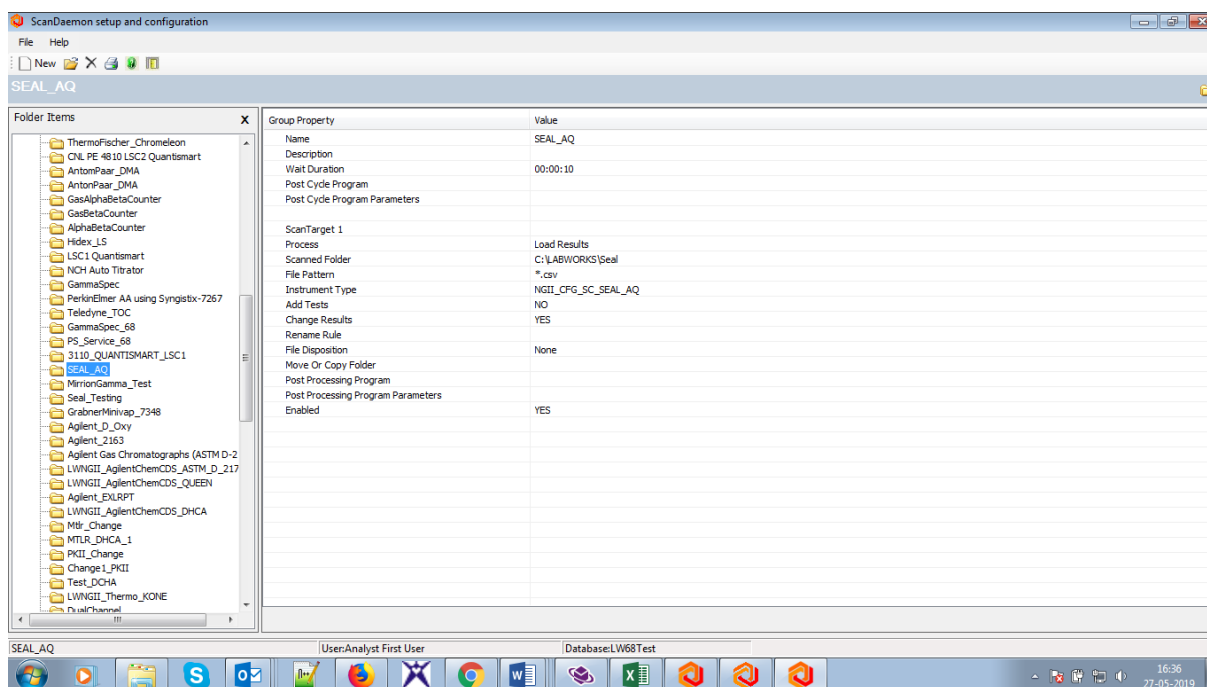
6.2. Multi-Component Transfer

6.2.1. PR6 File Format

- 1) Pre-requisite
 1. Create Analysis \$TestMCT with components A and B.
 2. Create new Sample with analyiss \$TestMCT.
 3. Create PR6 input file for the newly created samples.
- 2) Launch LW Multicomponent Transfer application (LWMultiComponentTransfer.exe). Login with valid credentials.
- 3) Select result file mode. Click Add file to List. Select Labworks PR6 file format. Select updated PR6 file. Click Find Samples. Click Review. Close Result Review sample window. Click Save Results. Launch Results Entry. Open the sample details for which results is posted.

6.3. Scan Daemon

- 1) Go to C:\LABWORKS\LWEXE\Server path. Launch ScanDaemon Setup and Configuration application (LWScanDaemonConfiguration.exe). Create a ScanGroup by entering appropriate ScanGroup properties. Click “OK” button.



- 4) Go to C:\LABWORKS\LWEXE\Server path. Launch 'LW Service Controller' application (LWServiceControllers.exe). Click on 'ScanDaemon Service Controller' tab. Select Scan Group from 'Available Scan groups' dropdown and click on 'Start group scanning process' button. Status should be displayed as “Waiting” in Orange color.
- 5) Let the application scan the files as configured for the scan group through the service.
- 6) Launch Result Entry application. Check that all the results corresponding to the respective samples are displayed.

7. Performing Calculations

7.1. Built-in

1) Precondition :

Go to System Manager Application and select Use_Calculation_Engine checkbox.

2) Create ACODEs C1, C2 & C3. Define calculation for ACODE C3, Calculation tab has X1=C1, X2=C2. Calculation function=X1+X2. Create a sample with ACODEs: C1, C2 and C3.

Add/Edit Analysis

Analysis | ASpecifications | **Calculation** | Special Info | Result Source | Audit Info

Calculation setup

Unformatted result : Test Calc Clear Calc Load

Formatted result :

Calculated MDL :

Input parameters :

Var No.	Input Analysis	No Key
X1	C1	<input checked="" type="radio"/>
X2	C2	<input type="radio"/>
X3		<input type="radio"/>
X4		<input type="radio"/>
X5		<input type="radio"/>
X6		<input type="radio"/>
X7		<input type="radio"/>
X8		<input type="radio"/>
X9		<input type="radio"/>
X10		<input type="radio"/>

Test values :

Calculate MDL

Non-numeric key value options

Don't perform calc

Report as key value

Report as MDL

Report as < MDL

Report as 0

Use 0 as key value

Calculation function :

C3 = X1+X2

User needs to save the changes made in analysis setup or calculation setup before testing calculation.

? C3 Apply OK Cancel

3) On Analysis Maintenance, select radio button “Significant Figures” and enter no. of places as 3.

Add/Edit Analysis

Analysis | ASpecifications | Calculation | Special Info | Result Source | Audit Info

Analysis

Analysis code :

Method reference :

Price :

Analysis name :

CAS number :

Work units : Special info form:

Routing details :

Department :

Reportable

Invoiceable

Replicate Settings

Of Replicates

Processing

Set Analysis To

Select Replicate From

Hold times

Days Hours : Mins :

Regulation hold time

Days Hours : Mins :

Quantitation details

Reporting units : Default MDL : PQL :

Round off for calculations

Significant figures places

Use MDL places

Use Ranges

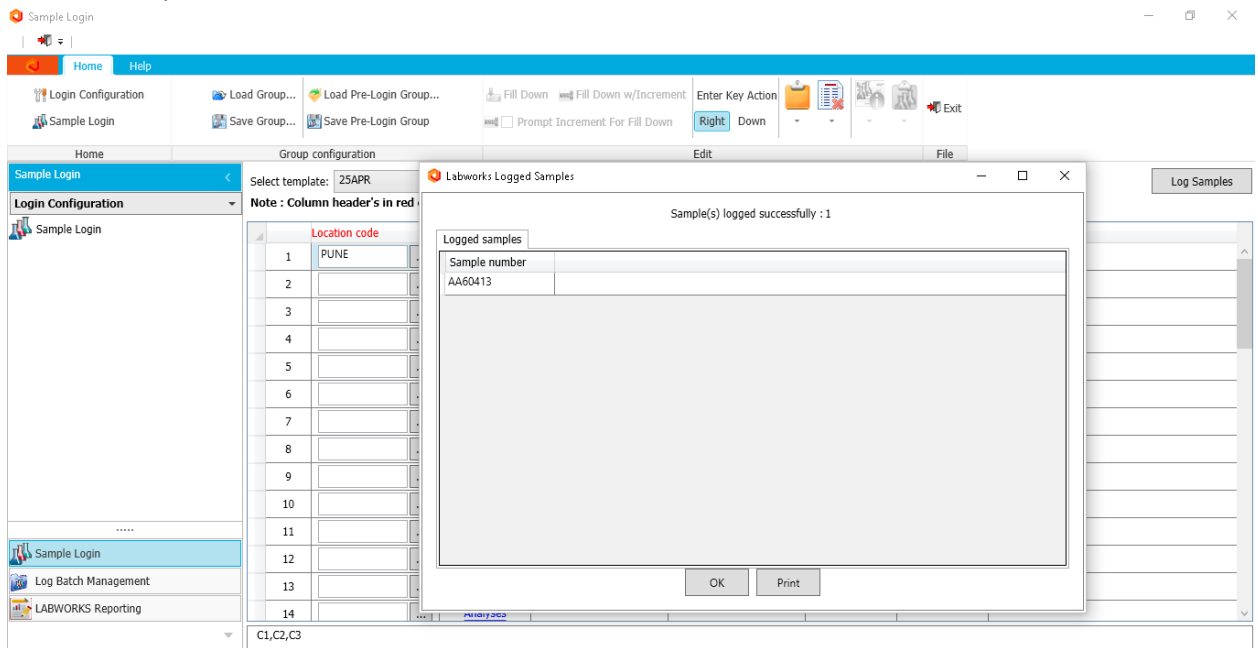
Ownership

Analysis Definition Owner

Sample Analysis Owner

Analysis Reader

4) Create a sample ID with ACODES: C1, C2 and C3.



5) Launch Result Entry application. Click on Result Entry. Select Sample ID. Enter Sample Number. Click on View Selections. Click on Enter Selection.

Result Entry: — □ ×

Enter Key Action: None Right Down Analyses with replicates

Details	Anl Code	C1	C2	C3
AA60413	Result			
CD: 03/06/2017	StartDate			
	EndDate			
	Validated By			
	DilFactor	1	1	1
	MDL			
	PQL			
	Qualify			
	Result2			

Left click result cell to enter data, headers to display user, test, or sample info Right click for context menu

6) Enter results for analysis C1 and C2. Result value should be automatically calculated for C3.

Result Entry: — □ ×

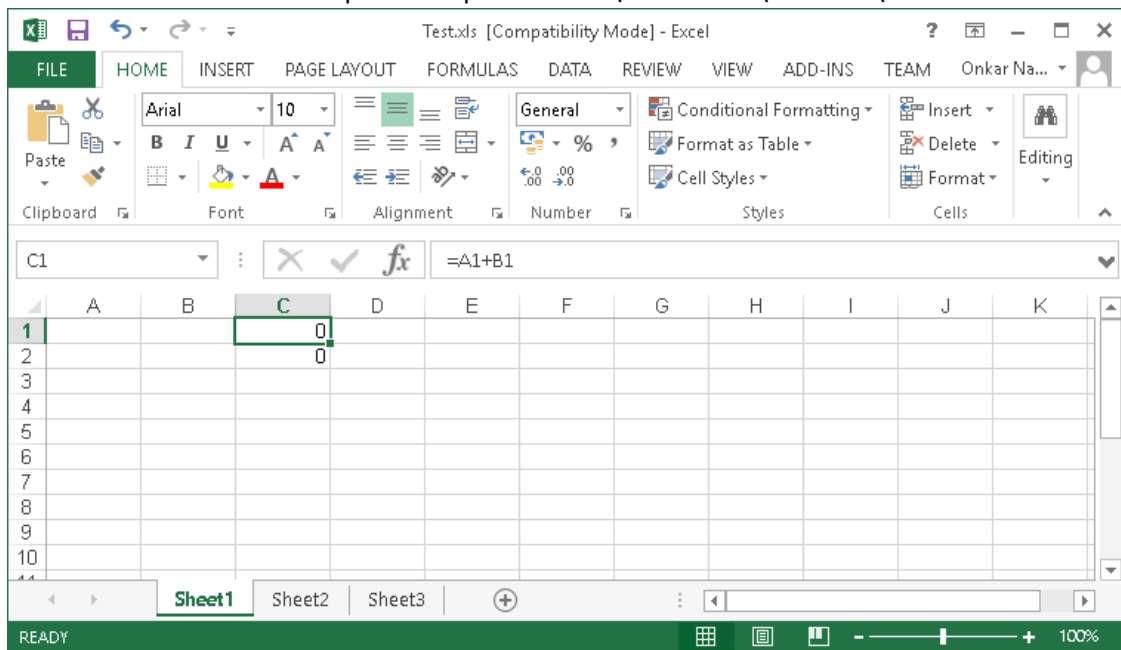
Enter Key Action: None Right Down Analyses with replicates

Details	Anl Code	C1	C2	C3
AA60413	Result	10	20	30.0
CD: 03/06/2017	StartDate	10/28/2021	10/28/2021	10/28/2021
	EndDate	10/28/2021	10/28/2021	10/28/2021
	Validated By			
	DilFactor	1	1	1
	MDL			
	PQL			
	Qualify			
	Result2			

Enter, load, or modify results for sample analyses

7.2. Excel

- 1) Create excel calculation template and place it at C:\LABWORKS\LWDATA\xlcalc.



- 2) Launch Excel Calculation Setup. Click Setup. Click Modify. On Calculation Header Information tab, select .XLS file having result data and calculation formula. Enter Sheet name.
- 3) On Input and Output Parameters tab, click Load from Analysis and select \$XC1, \$XC2 and \$XC3. For \$XC1 and \$XC2, select Input and enter cell address. For \$XC3, select Output and enter cell address. Click Save.

Excel Custom Calculation Creation and Modification

Loaded calculation: TESTCALC Load Clear Print Save Close

Last modified: 10/28/2021 11:51 Modified by: USR

Calculation code: TESTCALC

Calculation description: Test Calc

Excel workbook (.XLS) file: TEST Excel worksheet name: Sheet1 Macro:

Header items to write to spreadsheet:

Sample Header Item	Cell Address
Sample ID	
Location code	
Location description	
Sample collector	
Purchase order number	
Project account code	
LABWORKS Log Batch No.	
Mysampno (User 01)	
Myuser2 (User 02)	
Dv_status (User 03)	
Permit_no (User 04)	
Discharge_no (User 05)	
Email_address (User 06)	
Report_type (User 07)	

Calculation Header Information Input and Output Parameters

Excel Custom Calculation Creation and Modification

Loaded calculation: TESTCALC Load Clear Print Save Close

Last modified: 10/28/2021 12:02 Modified by: USR

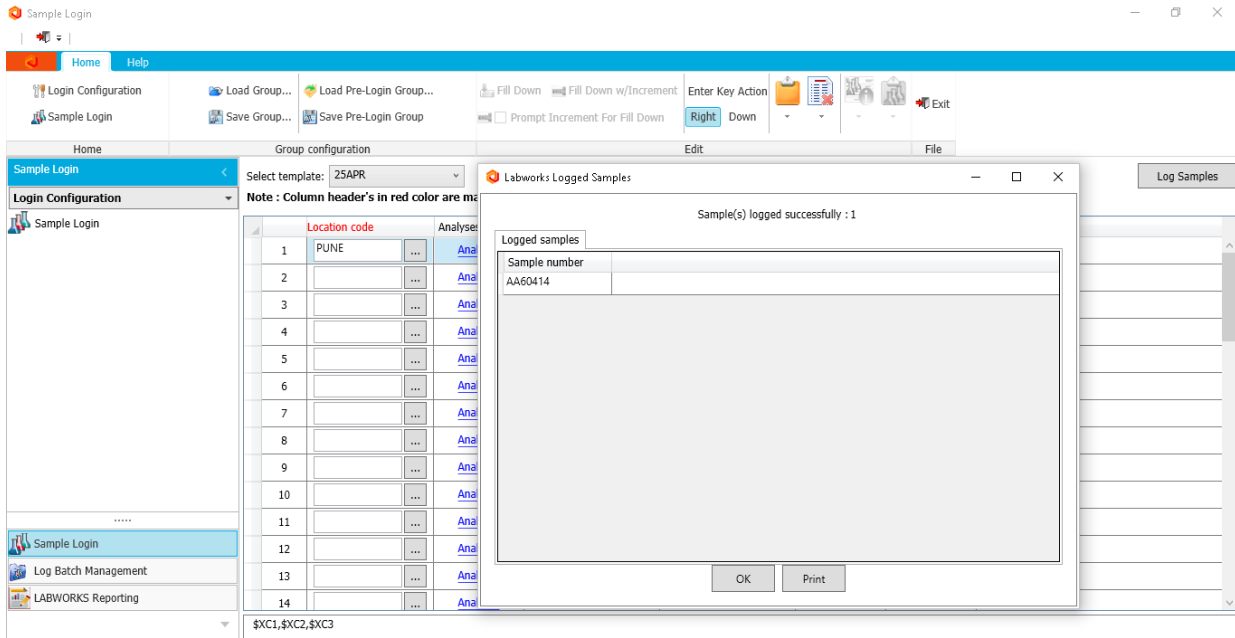
Clear Params Load from XL Calc Merge from XL Calc Load from Analysis Merge from Analysis

Input and output parameters for Excel custom calculation: Allow Duplicates Auto-Increment Cell

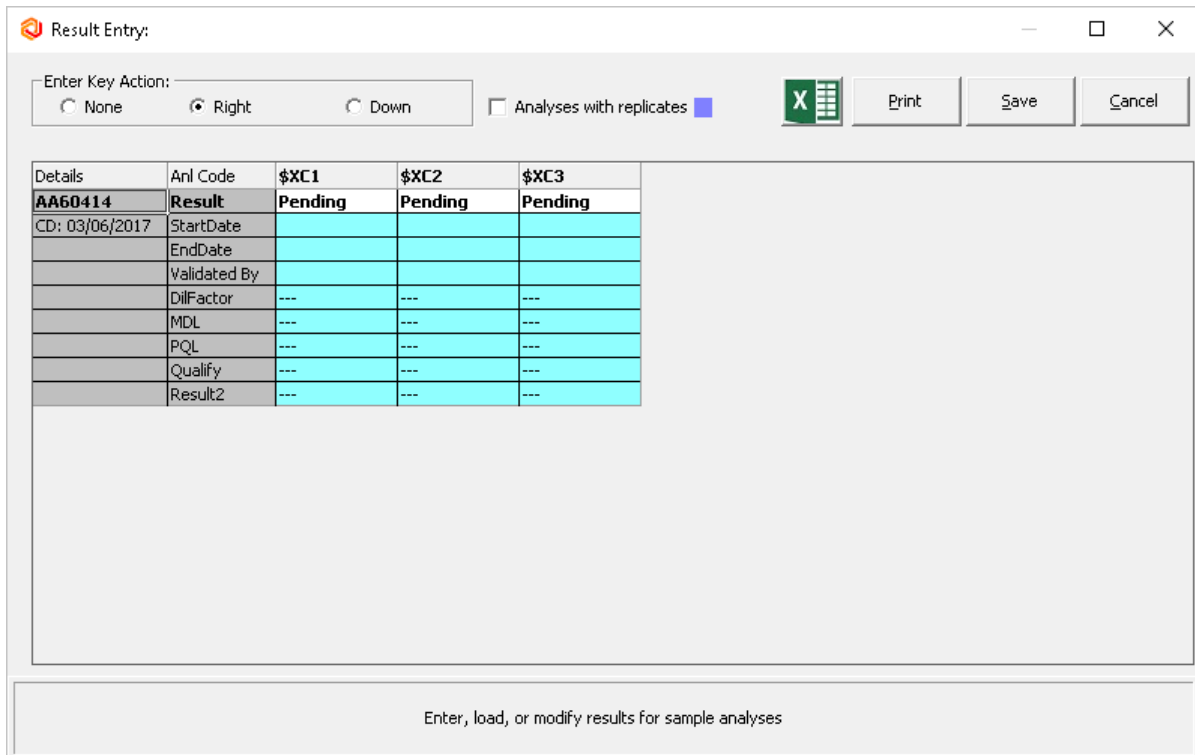
	Anl Code	Analyte Name	Result Item	Input/Output	Cell Address
1	\$XC1	a	Primary result	Input	A1
2	\$XC1	b	Primary result	Input	A2
3	\$XC2	a	Primary result	Input	B1
4	\$XC2	b	Primary result	Input	B2
5	\$XC3	a	Primary result	Output	C1
6	\$XC3	b	Primary result	Output	C2
7			Primary result	Input	
8			Primary result	Input	
9			Primary result	Input	
10			Primary result	Input	
11			Primary result	Input	
12			Primary result	Input	
13			Primary result	Input	
14			Primary result	Input	
15			Primary result	Input	

Calculation Header Information Input and Output Parameters

4) Log-in samples for with ACodes created in above steps.



5) Launch Result Entry application. Click on Result Entry. Select Sample ID. Enter Sample Number. Click on View Selections. Click on Enter Selection.



- 6) Enter results for analysis \$XC1 and \$XC2. Result value should be automatically calculated for \$XC3.

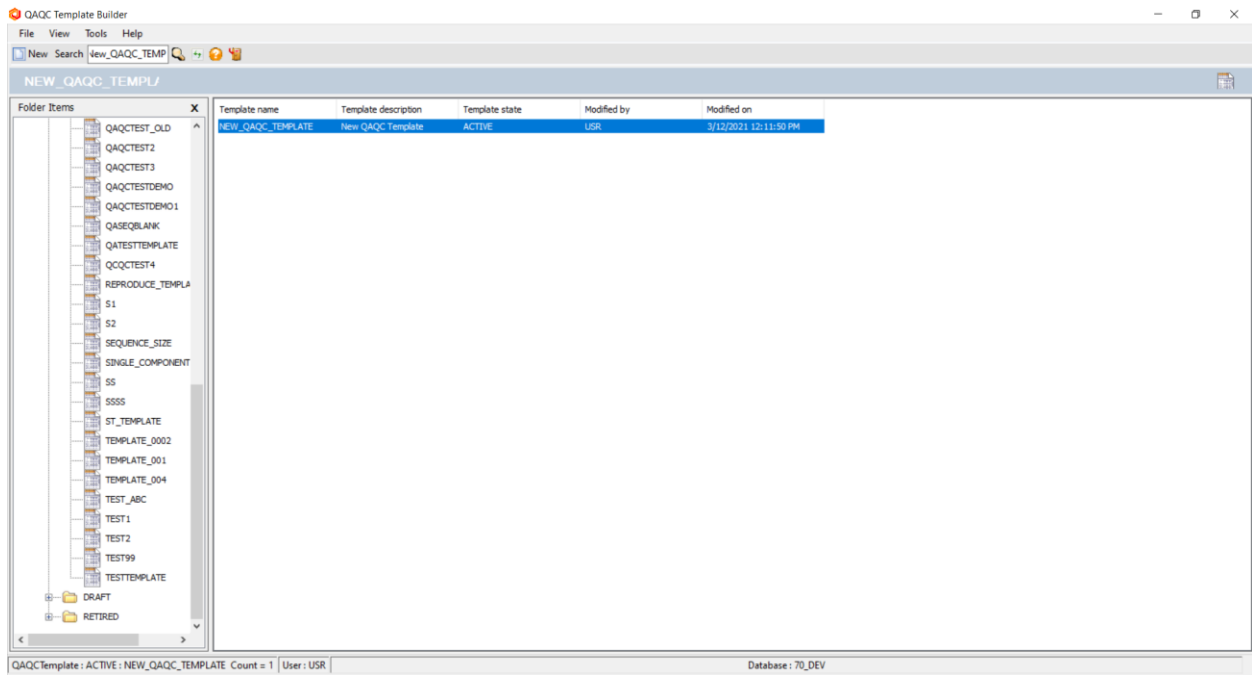
Details	Anl Code	\$XC1	\$XC2	\$XC3
AA60414	Result	Done	Done	Done
CD: 03/06/2017	StartDate	10/28/2021	10/28/2021	10/28/2021
	EndDate	10/28/2021	10/28/2021	10/28/2021
	Validated By			
	DilFactor	---	---	---
	MDL	---	---	---
	PQL	---	---	---
	Qualify	---	---	---
	Result2	---	---	---

Enter, load, or modify results for sample analyses

8. Generate QA/QC Batch

8.1. QA/QC Template Builder

- 2) Click on 'LWQAQCTemplateBuilder.exe'. Click on 'New' button. Enter the template details in Main tab. Enter the sequence details in Sequence tab. Newly created QA QC Template is displayed in the list.



QA/QC Template Builder

Main Special Info Sequence Attachments

Template Name: NEW_QAQC_TEMPLATE

Template Description: New QAQC Template

Primary Analysis: TEST

Special QA Sample Available for Batch:

Special QA Sample:

Default Instrument:

Special Info: FIRST_SI_FORM

Results Entry Template: NEW_TEMPLATE

Report Template:

Use standard item for tracking: H20, O

eWorksheet Template:

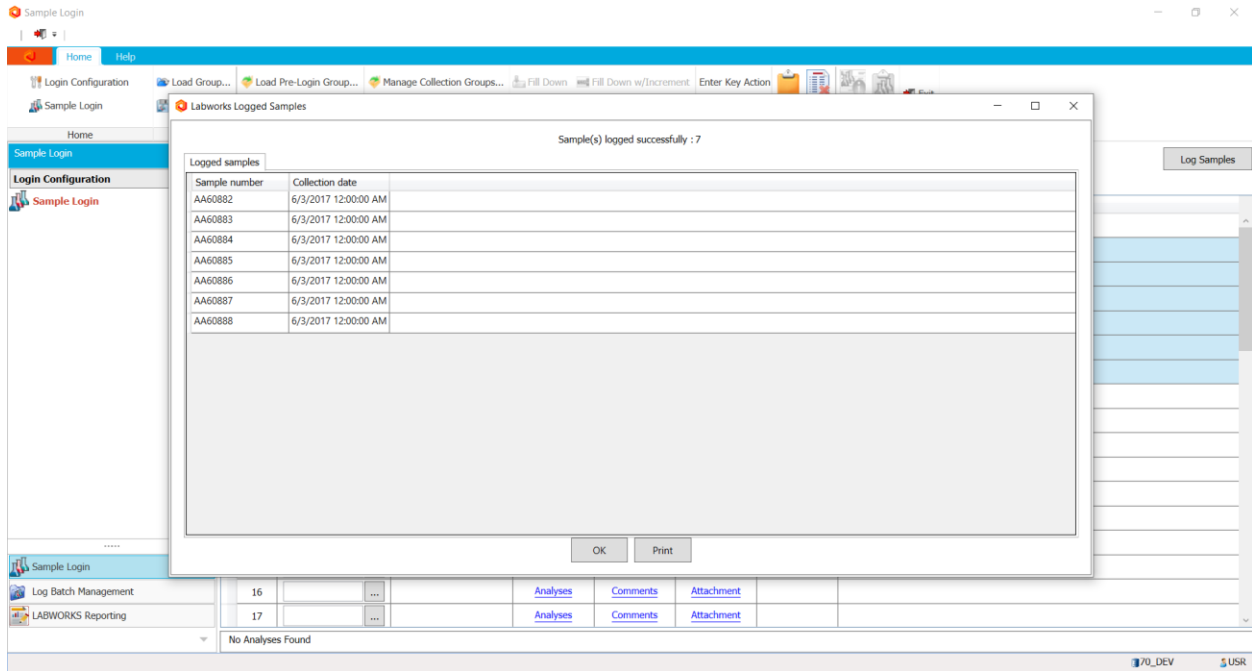
Default Analyst:

Dependent Analysis

Primary analysis	Analysis code	Analysis name	Type
TEST	F_TEST	Fid Blank for Single test	

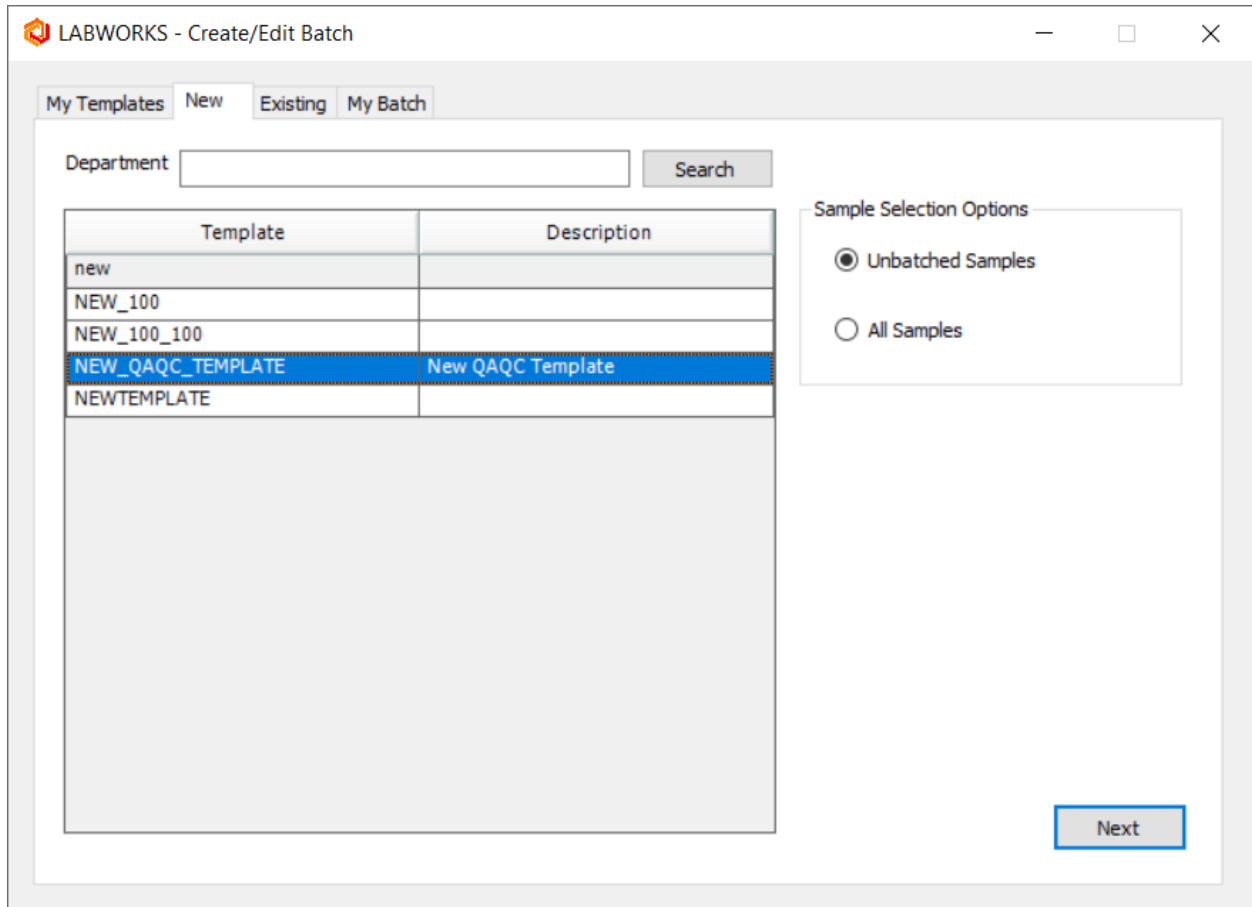
Apply OK Cancel

- 3) Launch “LWSampleLogin.exe”. Login samples to be included in the batch.



8.2. QA/QC Batch Builder

- 1) Launch “LWQAQCBatchBuilder.exe”. Select the newly created template, radio button for sample selection option as “Unbatched Samples” and click on 'Next' button.



- 2) Select the samples from “Available Samples” list and click “Auto-fill” button to move the samples to “Selected Sample” list.

LABWORKS - Assign Samples

File Options

Batch ID: NEW_QAQC_TEMPLATE-2366 Batch Status: Preparation Date: Preparation Time:

Buttons: Create Batch, Next Samples, Quick Track, eWorksheet, Print Worksheet

Samples Inventory Special Info Attachments

Batch Description: NEW_QAQC_TEMPLATE-2366 BATCH

Assign to Analyst: Assign to Instrument:

Results Entry Instrument Software

Available Sample

Sample No	Analysis Code	Due Date	Billing Rate	Collection dat	Price List	REPORT	Sample Statu
AA58609	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58610	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58611	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58612	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58613	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58614	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58615	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58619	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58620	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58621	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58622	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58623	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58624	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58625	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58626	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58832	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA60886	TEST	03/06/2017	100	03/06/2017			Waiting Analy
AA60887	TEST	03/06/2017	100	03/06/2017			Waiting Analy
AA60888	TEST	03/06/2017	100	03/06/2017			Waiting Analy

Selected Sample

Sample Type	Sample No	Analysis Code	Sub Batch	Billing Rate	Collection dat	Price List
Sample	AA60882	TEST	A	100	03/06/2017	
Sample	AA60883	TEST	A	100	03/06/2017	
Sample	AA60884	TEST	A	100	03/06/2017	
Sample	AA60885	TEST	A	100	03/06/2017	

Buttons: Create Sub-Batch

3) Click on 'Create Batch' button. "Batch saved successfully" message should be displayed.

LABWORKS - Assign Samples

File Options

Batch ID: NEW_QAQC_TEMPLATE-2366 Batch Status: Preparation Date: Preparation Time:

Buttons: Next Samples, Quick Track, eWorksheet, Print Worksheet

Samples Inventory Special Info Attachments

Batch Description: NEW_QAQC_TEMPLATE-2366 BATCH

Assign to Analyst: Assign to Instrument:

Results Entry Instrument Software

Available Sample

Sample No	Analysis Code	Due Date	Billing Rate	Collection dat	Price List	REPORT	Sample Statu
AA58609	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58610	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58611	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58612	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58613	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58614	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58615	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58619	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58620	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58621	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58622	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58623	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58624	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58625	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58626	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA58832	TEST	06/03/2017	100	06/03/2017			Waiting Analy
AA60886	TEST	03/06/2017	100	03/06/2017			Waiting Analy
AA60887	TEST	03/06/2017	100	03/06/2017			Waiting Analy
AA60888	TEST	03/06/2017	100	03/06/2017			Waiting Analy

Selected Sample

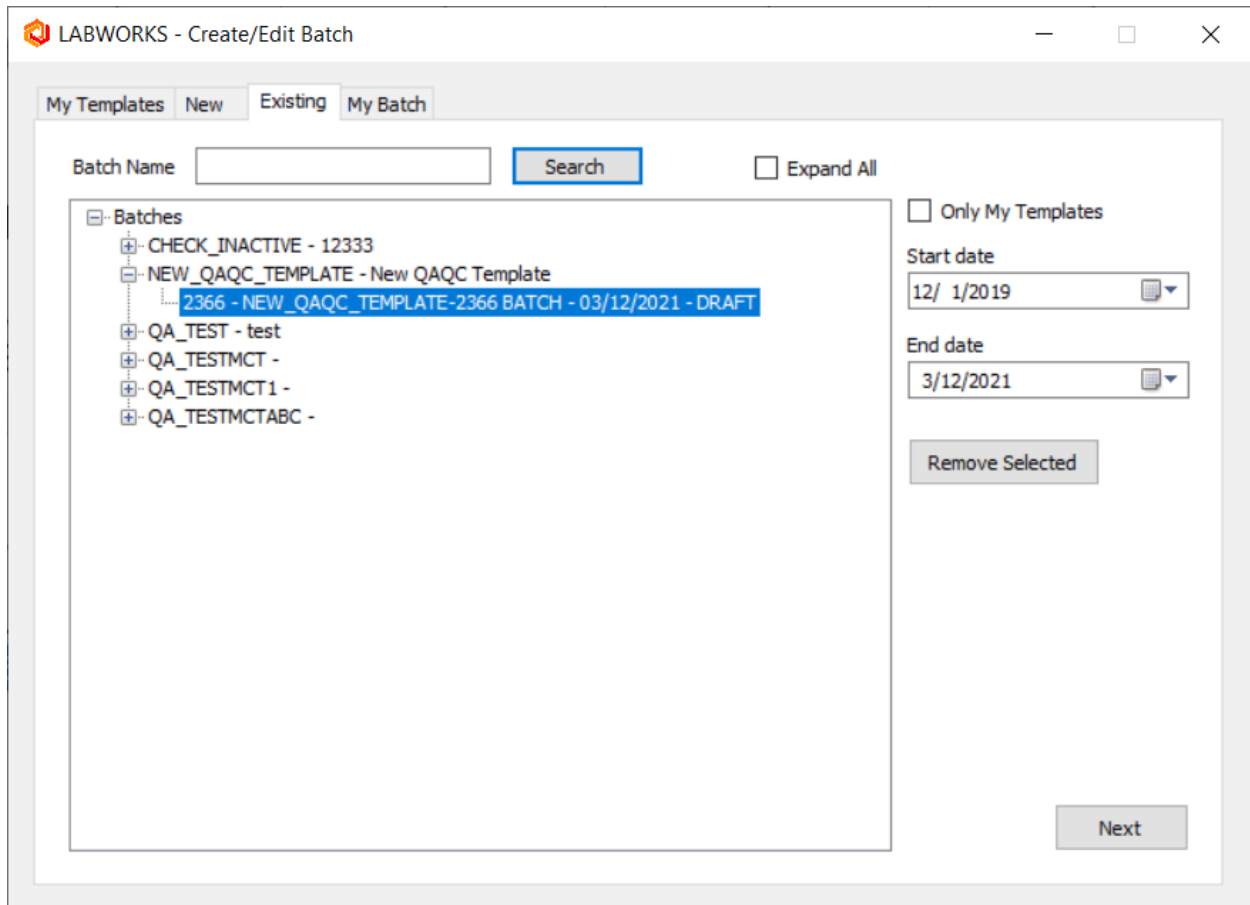
Sample Type	Sample No	Analysis Code	Sub Batch	Billing Rate	Collection dat	Price List
Sample	AA60882	TEST	A	100	03/06/2017	
Sample	AA60883	TEST	A	100	03/06/2017	
Sample	AA60884	TEST	A	100	03/06/2017	
Sample	AA60885	TEST	A	100	03/06/2017	

QAQC Batch Builder

Batch saved successfully

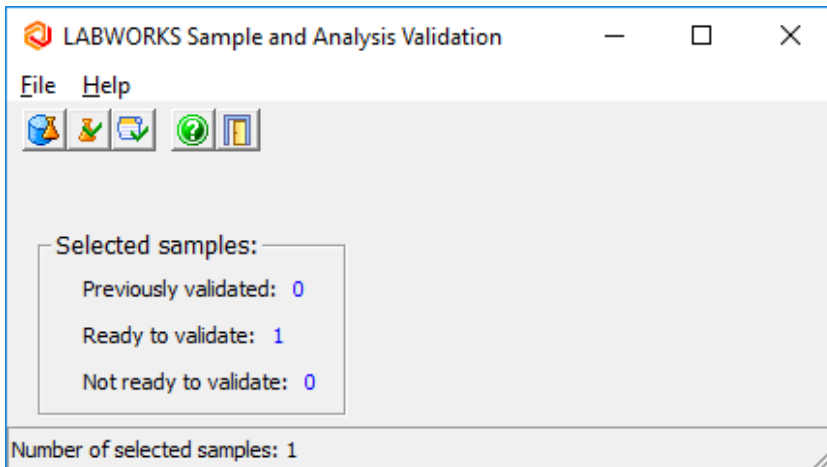
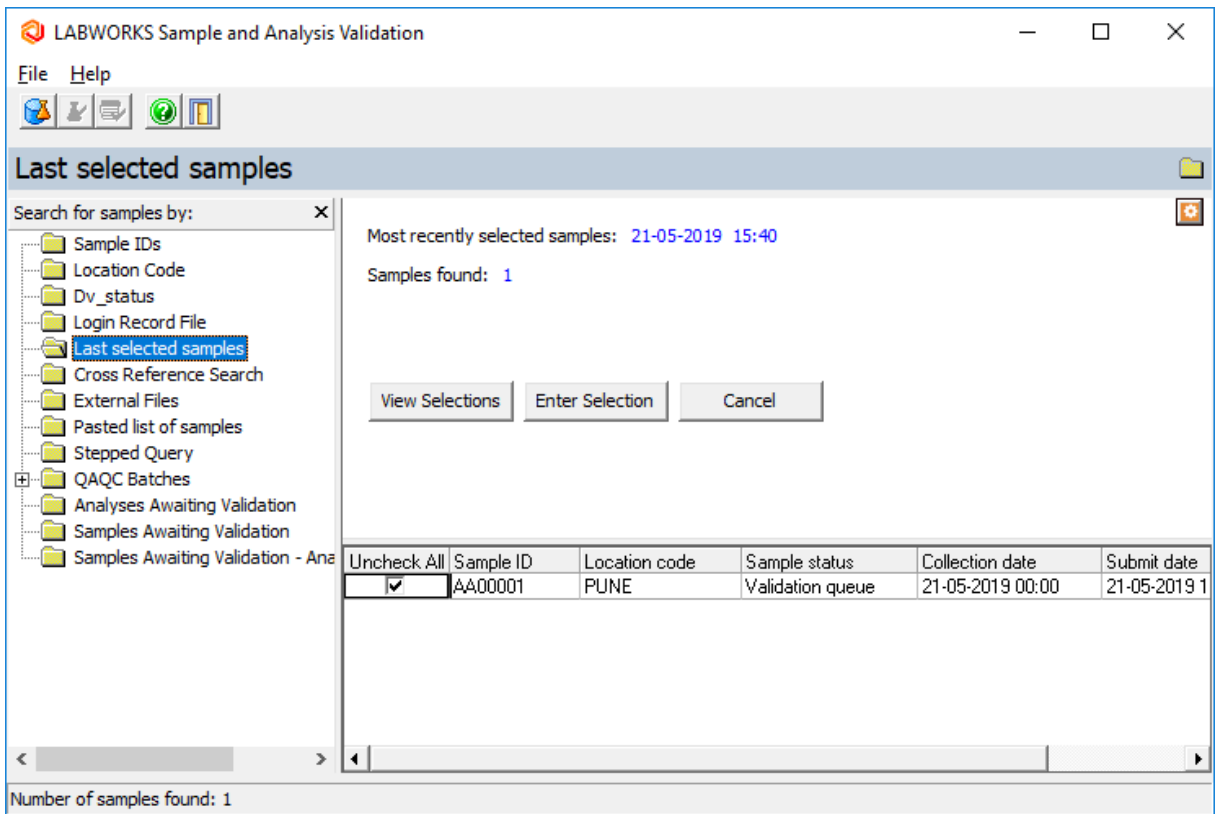
OK

- 4) Go to “Existing” tab. The newly created batch should be displayed with “DRAFT” status.

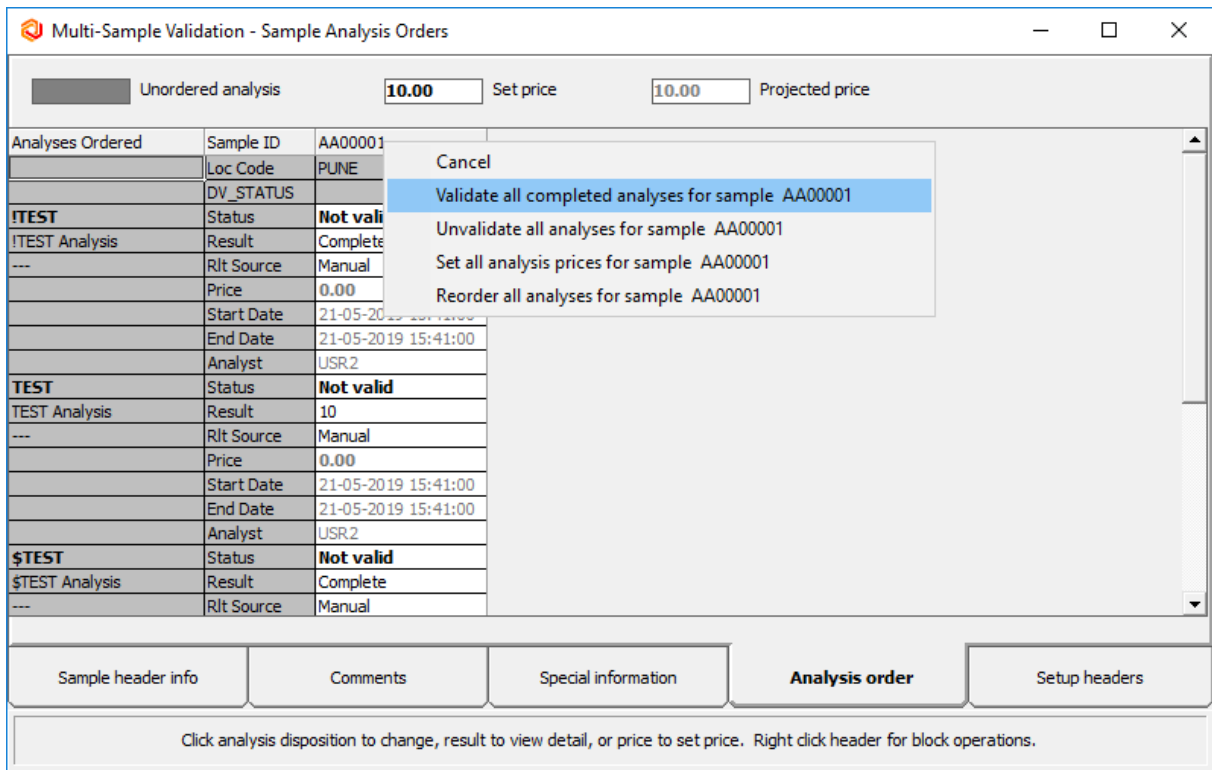


9. Validate Result

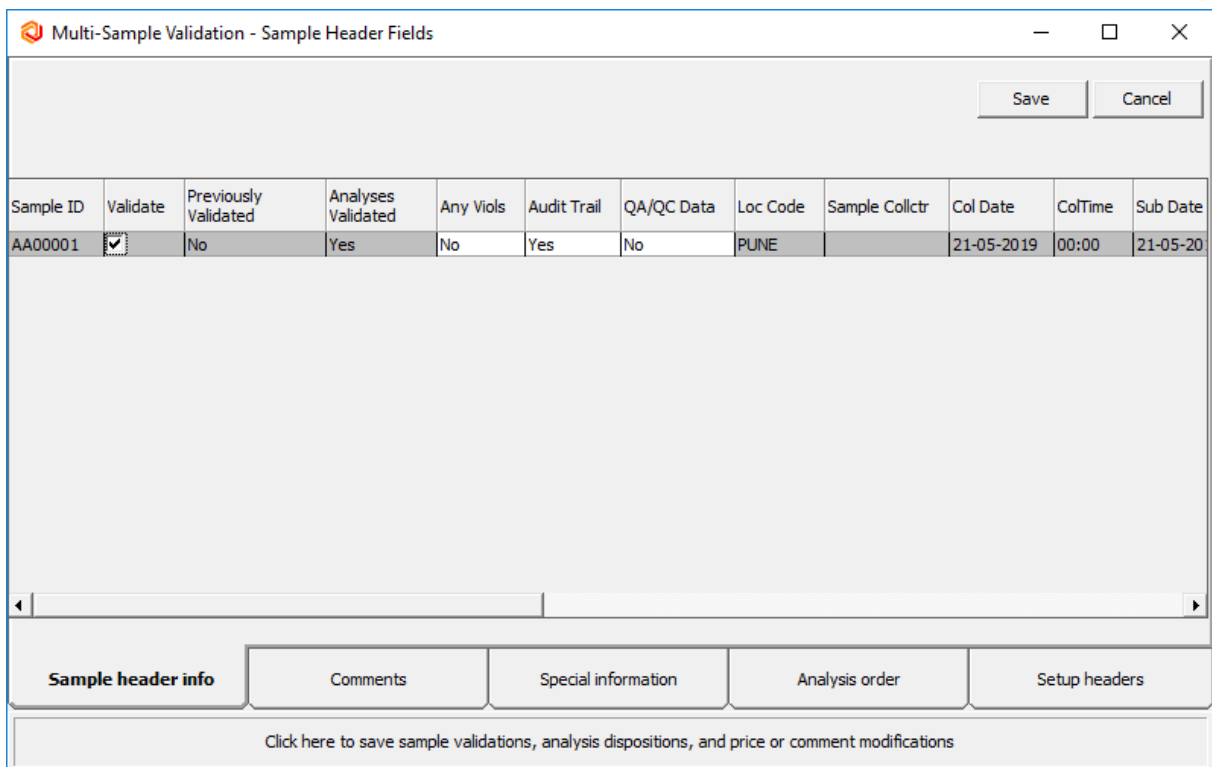
- 1) Launch Sample and Analysis validation application.
- 2) Select Sample ID option from Search for Sample By. Enter Sample Number (select sample number such that it is already having status as 'Validation queue'). Click on View Selection. Click on Enter Selection.



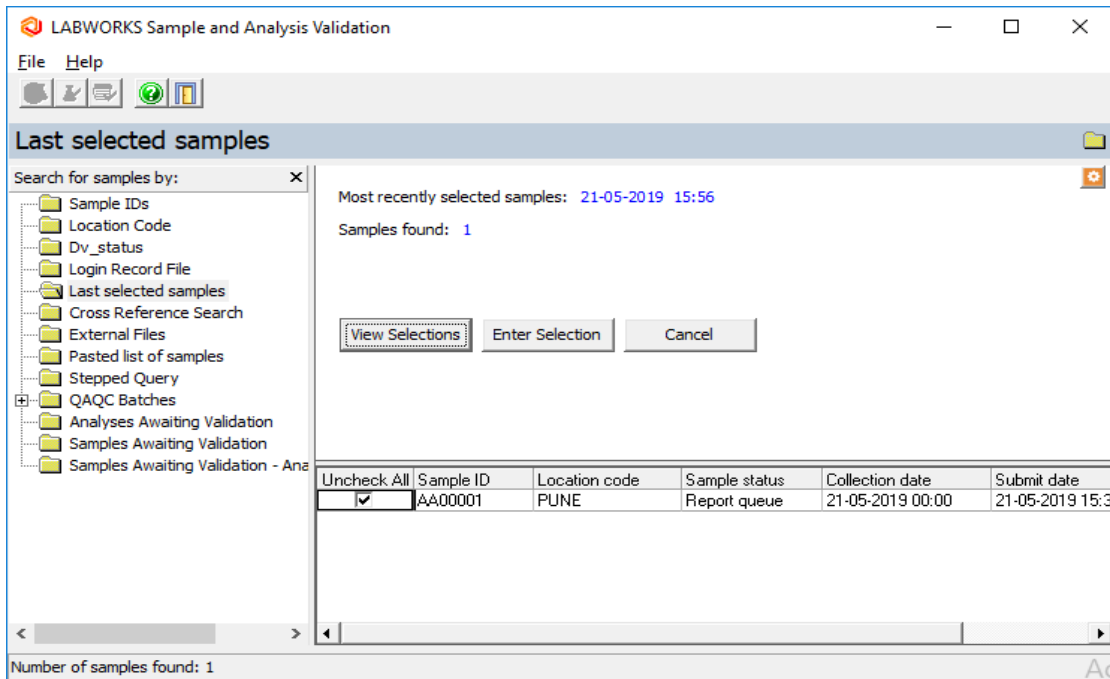
- Go to 'Analysis Order' Tab. Right Click on Analysis Order column. Select 'Validate all complete Analyses in sheet'.



4) Select 'Sample header info' tab. Select Validate Now check box. Click on "Save" button.



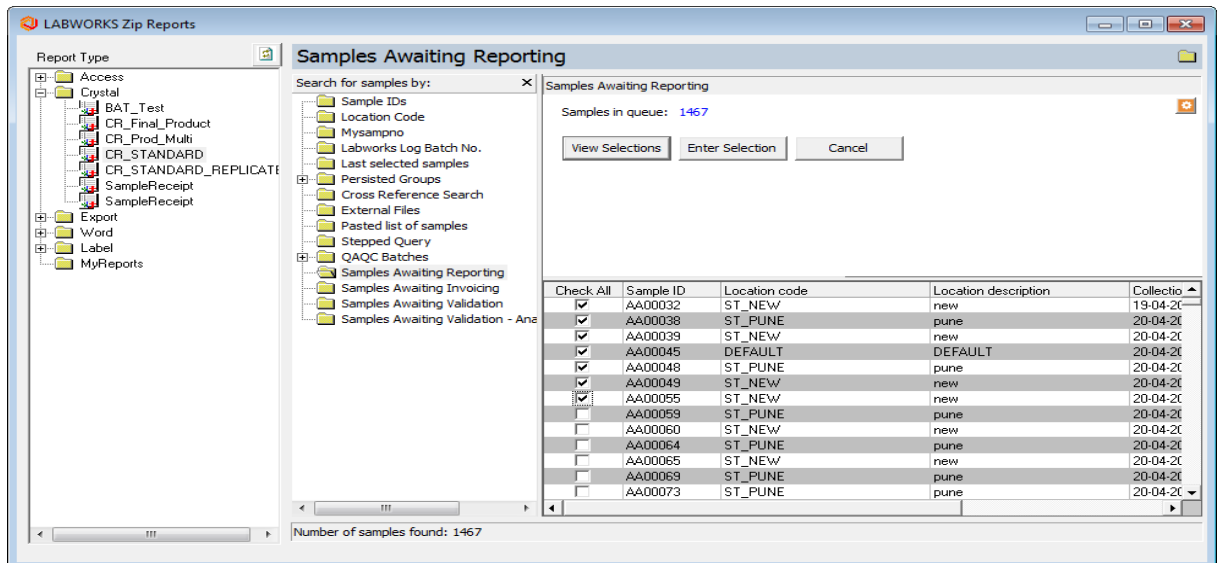
- 5) Select 'Last Selected Sample' option. Click on View Selection button.



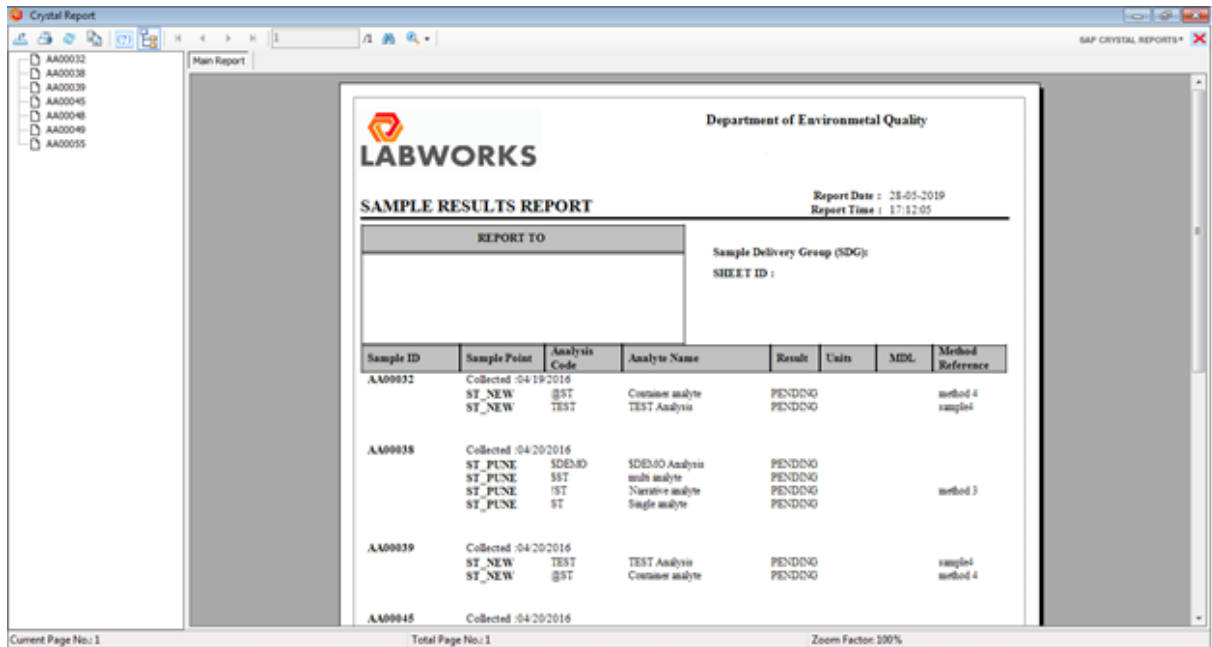
- 6) Status of the selected sample should be displayed as 'Report Queue'.

10. Generate Report

- 1) Launch Zip Report (ZipReport6.exe) application with valid LABWORKS credentials. Select “CR_STANDAR” report and select applicable samples using “Sample Search” window. Click “Enter Selection”.

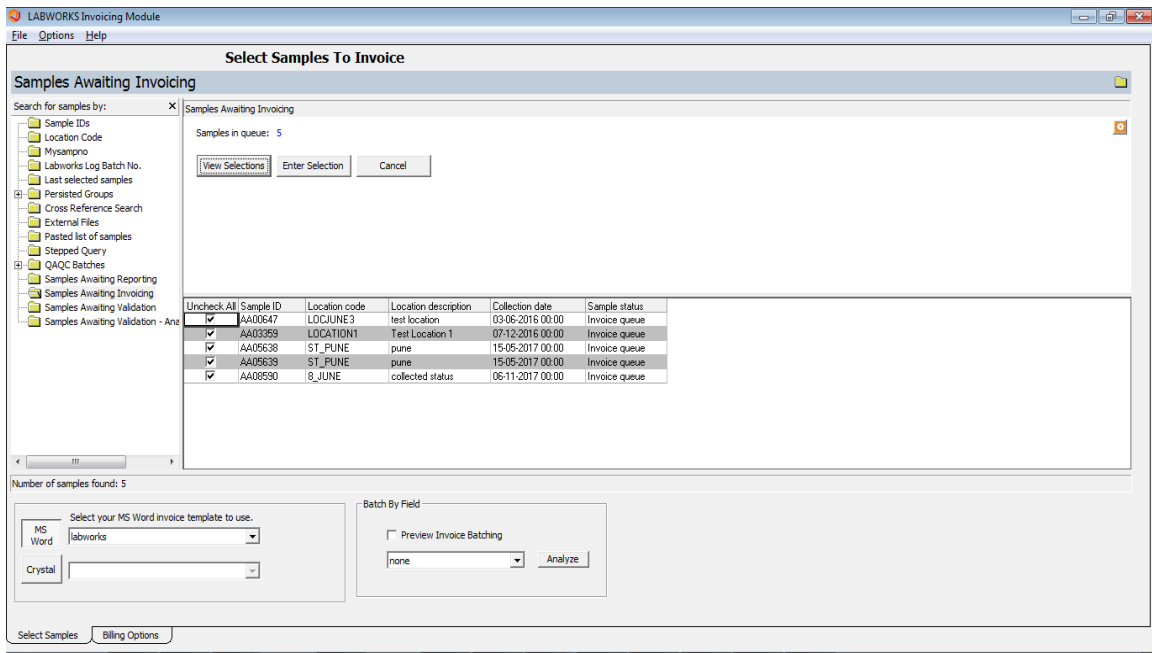


- Report file is generated.



11. Generate Invoice

- Launch “Sample Invoice” application (LWWinV6.exe). Select “Samples Awaiting Invoicing” option. Click “View Selection” and “Enter Selection”.



- Invoice should be generated as per the configured format.