Test Qualification Plan

- SCM Correlation Data Gathering
 - Loop 4 bin1 units x30
 - Run 100 bin1 units on handler
 - Serialize and test 10 bin1 units
 - Serialize and test 5 reject units
- 2. Ship correlation package from SCM to SCC
- 3. SCC Correlation Data Gathering
 - Loop 4 bin1 units x30
 - Run 100 bin1 units on handler
 - Test 10 already serialized bin1
 - Test 5 already serialized rejects
- 4. SCM/SCC send data to ADGT for Data Crunching and Analysis
- CorL8 Analysis of x30 loop /100 units handler data
 - X30 loop must pass Mean Shift, Sigma Spread and CPK criteria
 - 100 Bin1 Correlation units must pass Mean Shift, Sigma Spread and CPK criteria
 - 10 serialized units must pass bin1 both in SCC and in SCM
 - 5 serialized rejects must fail the same parameter for both SCC and SCM
- 6. Correlation Data Approval
 - For TRB movement to Available with Condition
- 7. Validation lot run handled by SCC

Note: CorL8 is ADI data analysis tool.

Reject Correlation		
Unit	SCM	SCC
1	TnumX: XXXXX	TnumX: XXXXX
	TnumX: XXXXX	TnumX: XXXXX
5	TnumX: XXXXX	TnumX: XXXXX

Bin1 Correlation			
Unit	SCM	SCC	
1	Pass	Pass	
	Pass	Pass	
10	Pass	Pass	

Correlation Test Criteria(TST00137)		
% Mean Shift Criteria	((SCM_mean - SCC_Mean) / (Upper_Limit - Lower_Limit)) x 100 < 5	
Sigma Spread Criteria	(SCC_Sigma / SCM_Sigma) < 1.300000	
Cpk Criteria	If CPK to the test limits is >10, then test given automatically PASS	





Test Qualification estimated Timeline

Devices	Oct, 2013 to Nov, 2013	Dec,2013 to Apr, 2014	May, 2014
SCM Correlation Data Gathering&Shipment			
SCC Correlation Data Gathering			
Data Review and Approved by ADGT			
Validation Run/TRB Closure			

PLANNED ACTUAL/ADJUSTED

Reliability Qualification Plan for LFCSP Package at STATS ChipPAC China (SCC)

QUALIFICATION PLAN				
Test	Conditions	Sample Size	Expected Completion Date	
Highly Accelerated Stress Test (HAST)*	JEDEC JESD22-A110	3 x 77	April 2014	
Temperature Cycle (TC)*	JEDEC JESD22-A104	3 x 77	April 2014	
Autoclave (AC)*	JEDEC JESD22-A102	3 x 77	April 2014	
Solder Heat Resistance (SHR)*	JEDEC/IPC J-STD-020	3 x 11	April 2014	
High Temperature Storage Life (HTSL)	JEDEC JESD22-A103	1 x 77	April 2014	
Field Induced Charged Device Model (FICDM)	JEDEC JESD22-C101	3/Voltage	April 2014	

^{*}Preconditioned per JEDEC/IPC J-STD-020





Bill of Materials

	SCM	SCC	Remarks
Die Attach	Ablestik 8290	Ablestik 8290	
Wire type	Gold MKE UR2	Gold MKE UR2	Same BOM
Mold Compound	Sumitomo G770	Sumitomo G770	Same BOW
Lead Finish	Matte Sn	Matte Sn	

