



COUNTERFEIT MITIGATION REPORT

DATE:	2/10/2016
REPORT CREATED BY:	Jonathan Sa
CUSTOMER:	
PURCHASE ORDER:	
PART NUMBER #/ ALT. PART #:	XC9536-10VQG44C
MANUFACTURER:	XILINX
DEVICE DESCRIPTION:	In-System Programmable CPLD
QUANTITY:	58
DATE CODE(S):	1209

	PASS	FAIL
QUANTITY	0	58

NOTES:	Strong evidence components have being remarked. De-Cap shows marking <u>X5120</u> , known good sample has markings of <u>X3420</u> .
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TESTING PER: AS6081 EC-STD-004

VISUAL INSPECTION:	<input checked="" type="checkbox"/>
MEASUREMENTS:	<input checked="" type="checkbox"/>
MARKINGS:	<input checked="" type="checkbox"/>
SCRAPE: Per IDEA-1010	<input checked="" type="checkbox"/>
ACETONE:	<input checked="" type="checkbox"/>
1-METHYL 2-PYRROLIDINONE:	<input checked="" type="checkbox"/>
DYNASOLVE:	<input checked="" type="checkbox"/>

EDX/XRF:	<input type="checkbox"/>
SEM TOPOGRAPHY:	<input type="checkbox"/>
X-RAY:	<input checked="" type="checkbox"/>
CROSS SECTION: Per eComp EC-WIN-013	<input type="checkbox"/>
DECAPSULATION:	<input checked="" type="checkbox"/>
ELECTRICAL:	<input type="checkbox"/>
TINNING / SOLDERABILITY:	<input type="checkbox"/>

This report contains the results of counterfeit mitigation testing performed by eComp and shall not be modified, annotated or altered in any way.

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MECHANICAL MEASUREMENTS

Inspector: Jonathan Sa

PASS	FAIL
1	0

Date: 2/9/2016

	LENGTH	WIDTH	HEIGHT
SPEC. SHEET	10.00 BSC mm	10.00 BSC mm	.95 - 1.05 mm
PART SIZE	9.87	9.82	1.00

Equipment Used:

ID#, Manufacturer, Description
P0004, Mitutoyo, Digital Caliper

VISUAL INSPECTION

Inspector: Jonathan Sa

Date: 2/9/2016

	PASS	FAIL	NOTES
PACKAGE DAMAGE	58	0	
LEADS DAMAGE	58	0	
MARKINGS MATCH	58	0	
CO PLANARITY	58	0	
PACKAGE MATCH	58	0	



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MARKINGS TEST

Inspector: Jonathan Sa

PASS	FAIL
1	0

Date: 2/9/2016

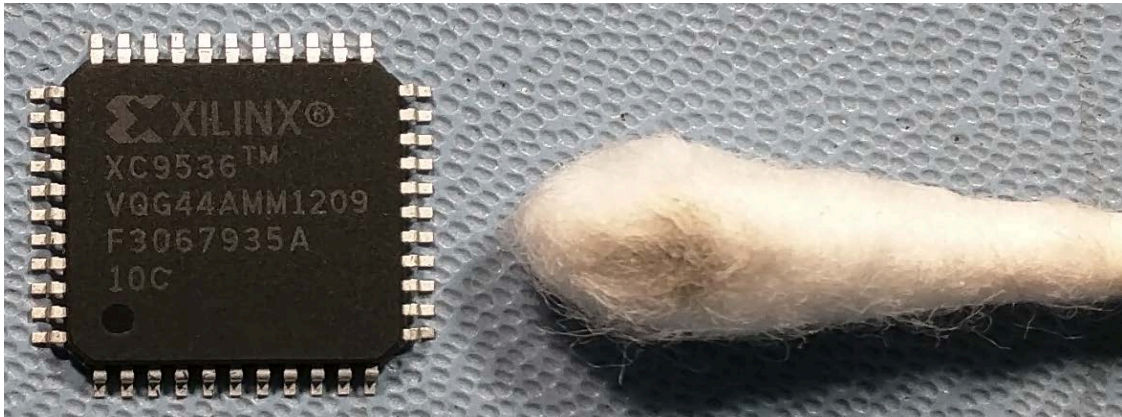


ACETONE

Inspector: Jonathan Sa

PASS	FAIL
0	1

Date: 2/9/2016



SCRAPE

Inspector: Jonathan Sa

PASS	FAIL
0	1

Date: 2/9/2016



X-RAY

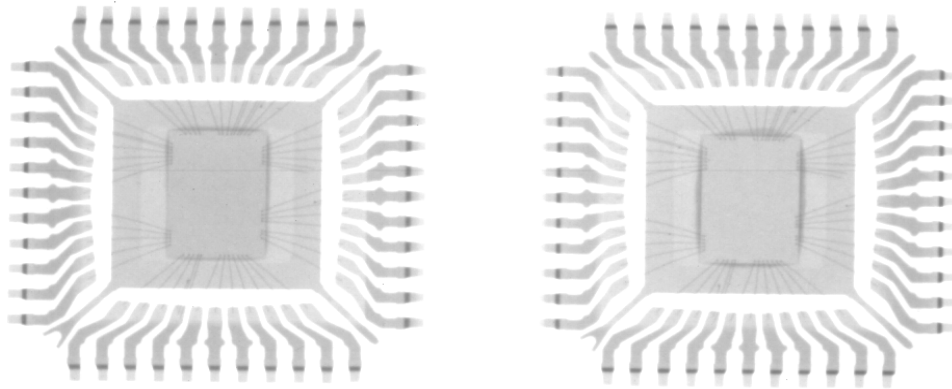
Inspector: Jonathan Sa

PASS	FAIL
-	-

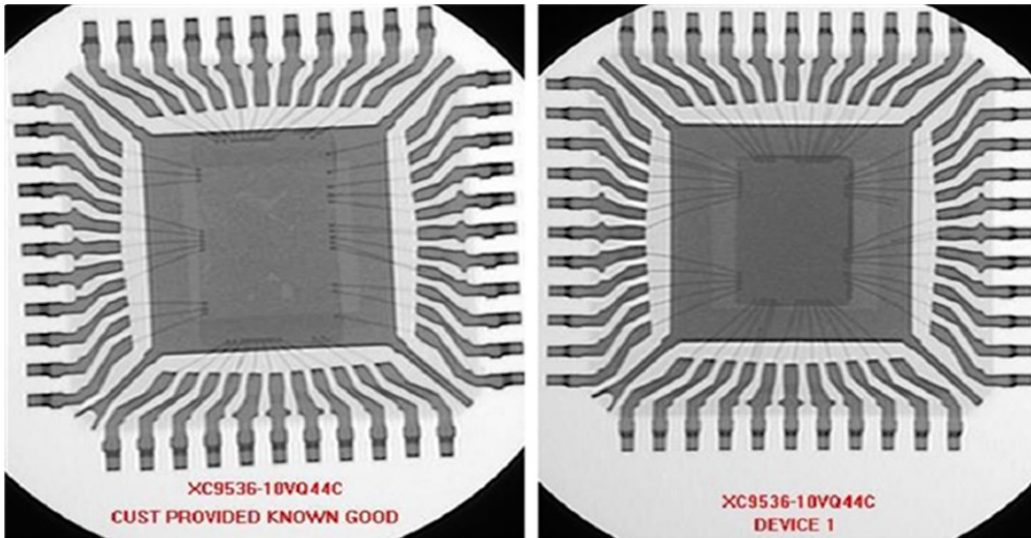
Date: 2/9/2016

Equipment Used:	ID#, Manufacturer, Description
	P0014, Creative Electron, X-Ray

All 58 Pieces were X-Rayed. DIE size and lead frame is the same through out the lot



DIE is different comparing with data from ERAI



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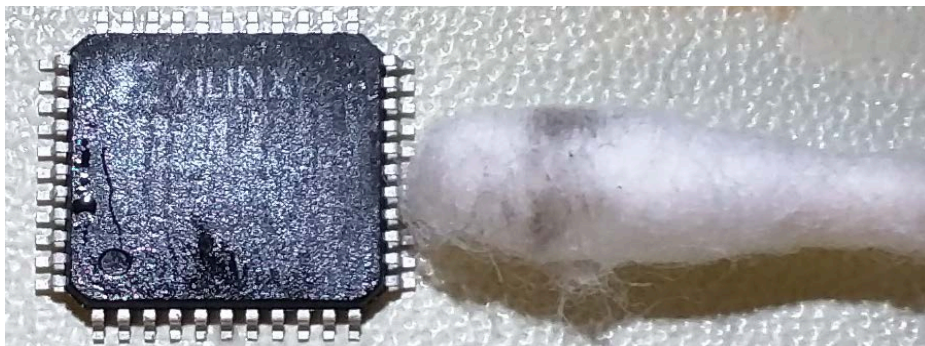
1-METHYL 2-PYRROLIDINONE

Inspector: Jonathan Sa

PASS	FAIL
0	1

Date: 2/9/2016

Equipment Used:	ID#, Manufacturer, Description
	P0019, SciLogex, Digital Hot Plate



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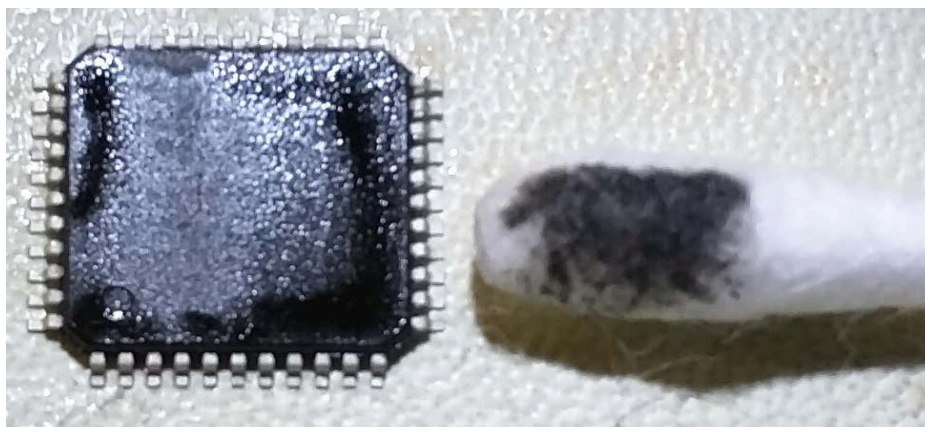
DYNASOLVE

Inspector: Jonathan Sa

PASS	FAIL
0	1

Date: 2/9/2016

Equipment Used:	ID#, Manufacturer, Description
	P0019, SciLogex, Digital Hot Plate



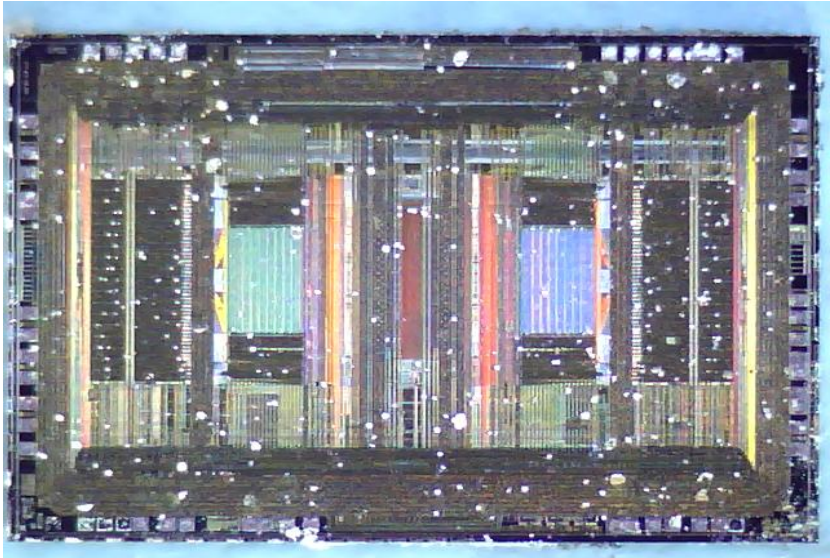
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DECAPSULATION

Inspector: Jonathan Sa

PASS	FAIL
-	-

Date: 2/9/2016

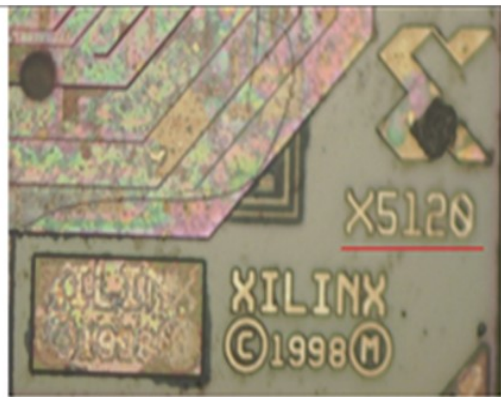


De-Cap shows Xilinx logo and DIE markings of X5120, ERAI has information that marking of X3420 was present on a known good sample. There could be a product change. Only way to know for certain if the die performs per manufacturer's specification is to perform electrical test.



Manufacturer's logo and die number of customer provided KGS

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Manufacturer's logo and die number of customer device



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