

CBD

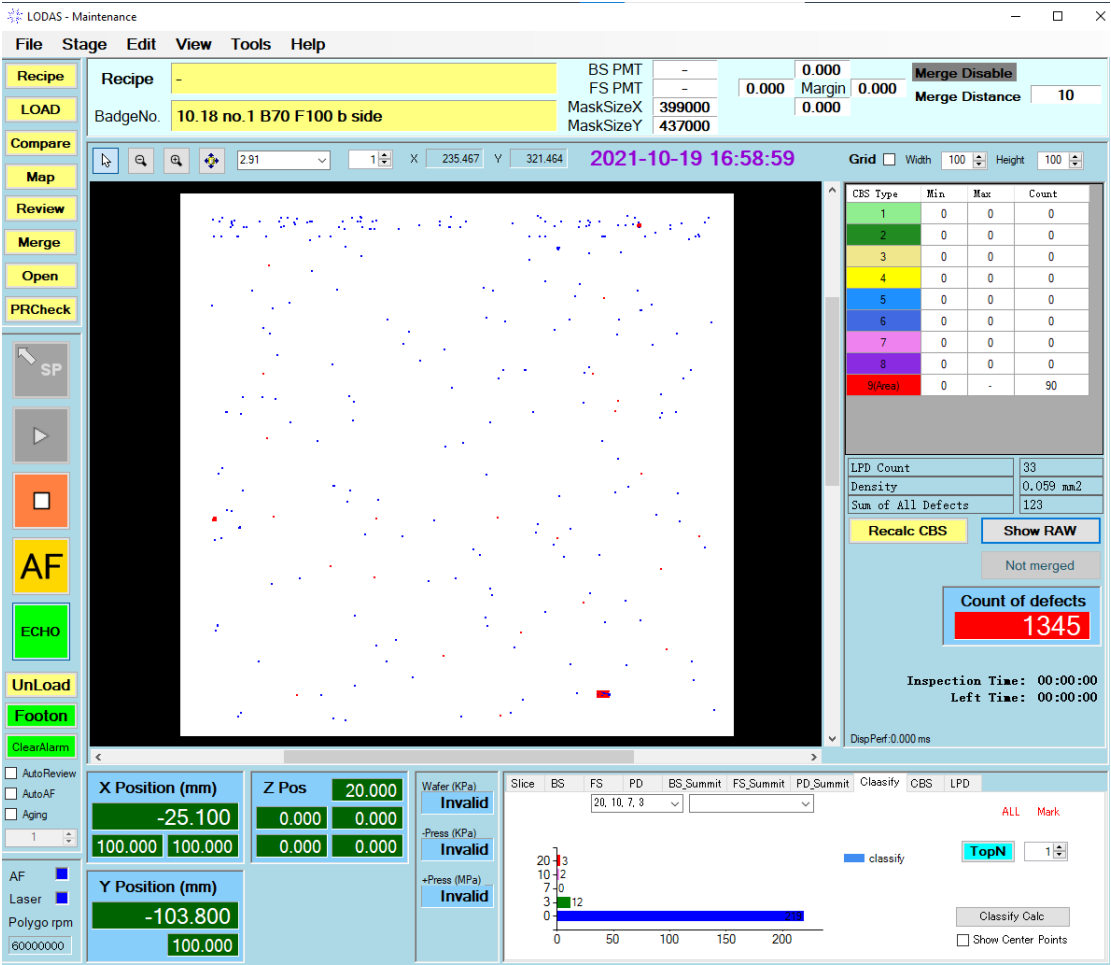
Classify Based on Distance

Function Description

Defect classification is to classify two relatively close defects into one class

Original inspection result

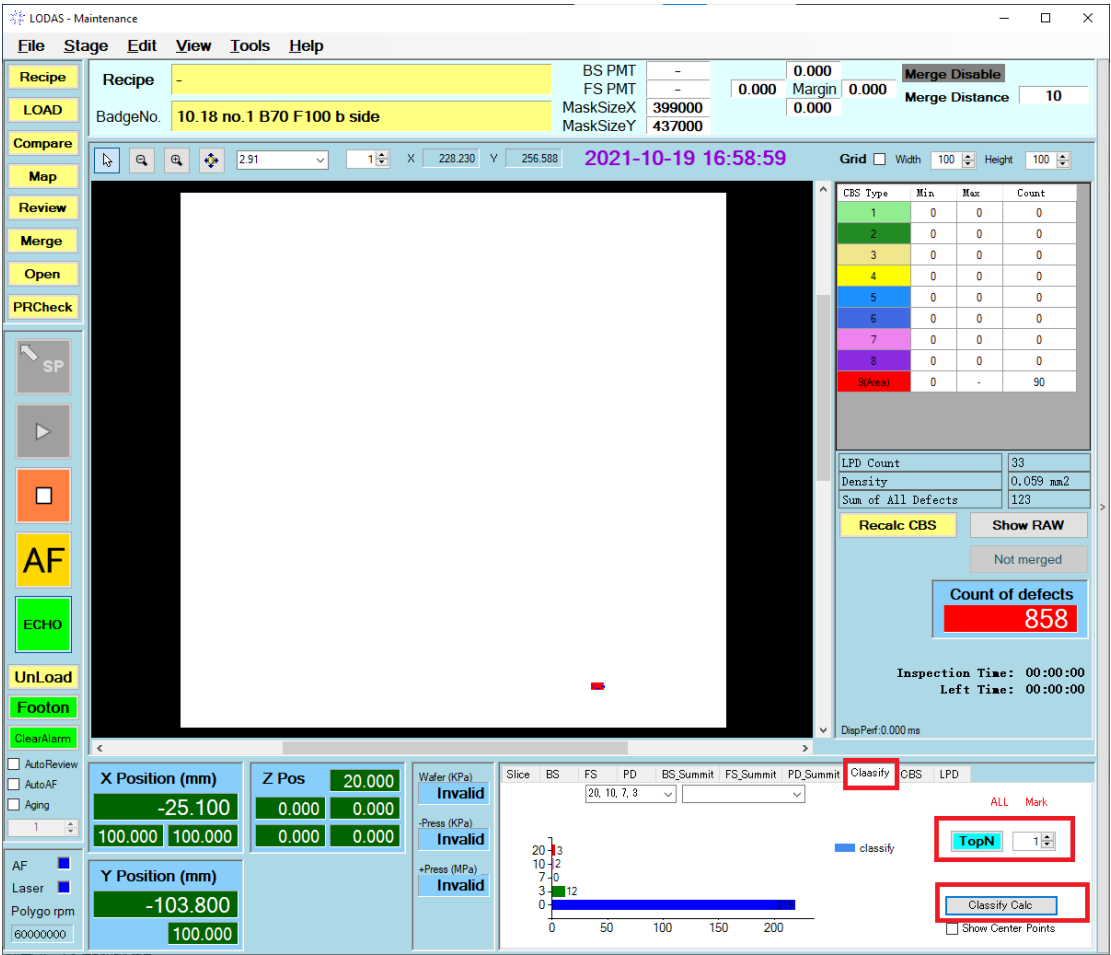
The total number of defects shown is 1345



CBD calculate result

If only top1 is displayed

There is only one big defect shown in the map, The total number of defects is 858, That is to say, the largest defect after this classification is composed of 858 small defects.



The red box points out how to use the classify function and how to set topN

If only top5 is displayed

Only 5 large defects are shown on the map. The total number of defects is 1042, That is, the 5 large defects consist of a total of 1042 small defects

LODAS - Maintenance

File Stage Edit View Tools Help

Recipe: - BS PMT: - 0.000 Merge Disable
LOAD: 10.18 no.1 B70 F100 b side MaskSizeX: 399000 Margin: 0.000 Merge Distance: 10
Compare: MaskSizeY: 437000
Map: 2.91 1 X: 260.539 Y: 285.795 2021-10-19 16:58:59 Grid Width: 100 Height: 100
Review
Merge
Open
PRCheck

SP
▶
□
AF
ECHO
UnLoad
Footon
ClearAlarm

AutoReview
AutoAF
Aging
1

AF
Laser
Polygo rpm
60000000

X Position (mm): -25.100
Y Position (mm): -103.800
Z Pos: 20.000
Wafer (KPa): Invalid
-Press (KPa): Invalid
+Press (MPa): Invalid

Slice BS FS PD BS_Summit FS_Summit PD_Summit Classify CBS LPD
20, 10, 7, 3

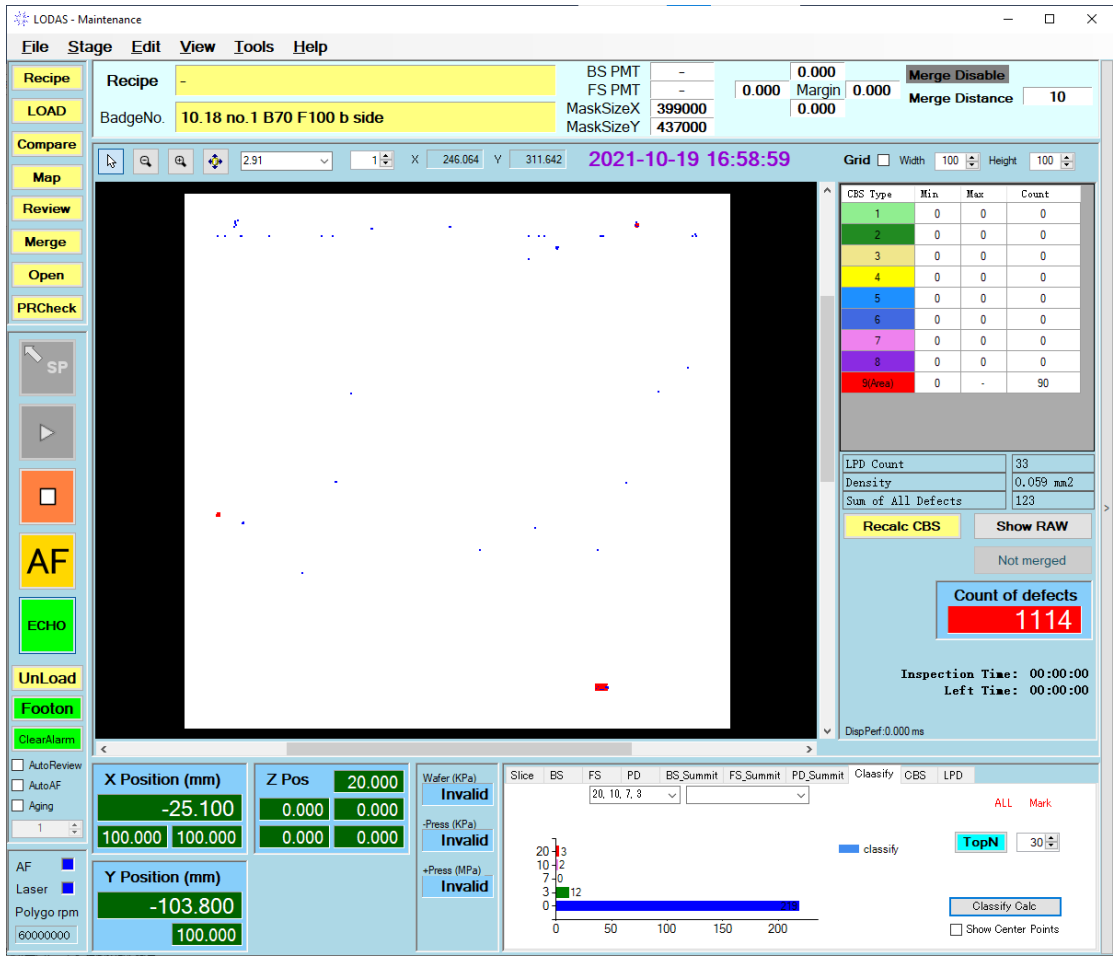
ALL Mark
TopN 5
Classify Calc
Show Center Points

CBS Type Min Max Count
1 0 0 0
2 0 0 0
3 0 0 0
4 0 0 0
5 0 0 0
6 0 0 0
7 0 0 0
8 0 0 0
9(hex) 0 - 90

LPD Count: 33
Density: 0.059 mm2
Sum of All Defects: 123
Recalc CBS Show RAW
Not merged
Count of defects: 1042
Inspection Time: 00:00:00
Left Time: 00:00:00
DispPerf: 0.000 ms

20 13 10 12 7 10 3 12 0 218

top30 is displayed



CBS

Classify Based on Signal strength.

Function Description

There is a certain relationship between Signal strength and defect size, So it can also be interpreted as Classify Based on Size.

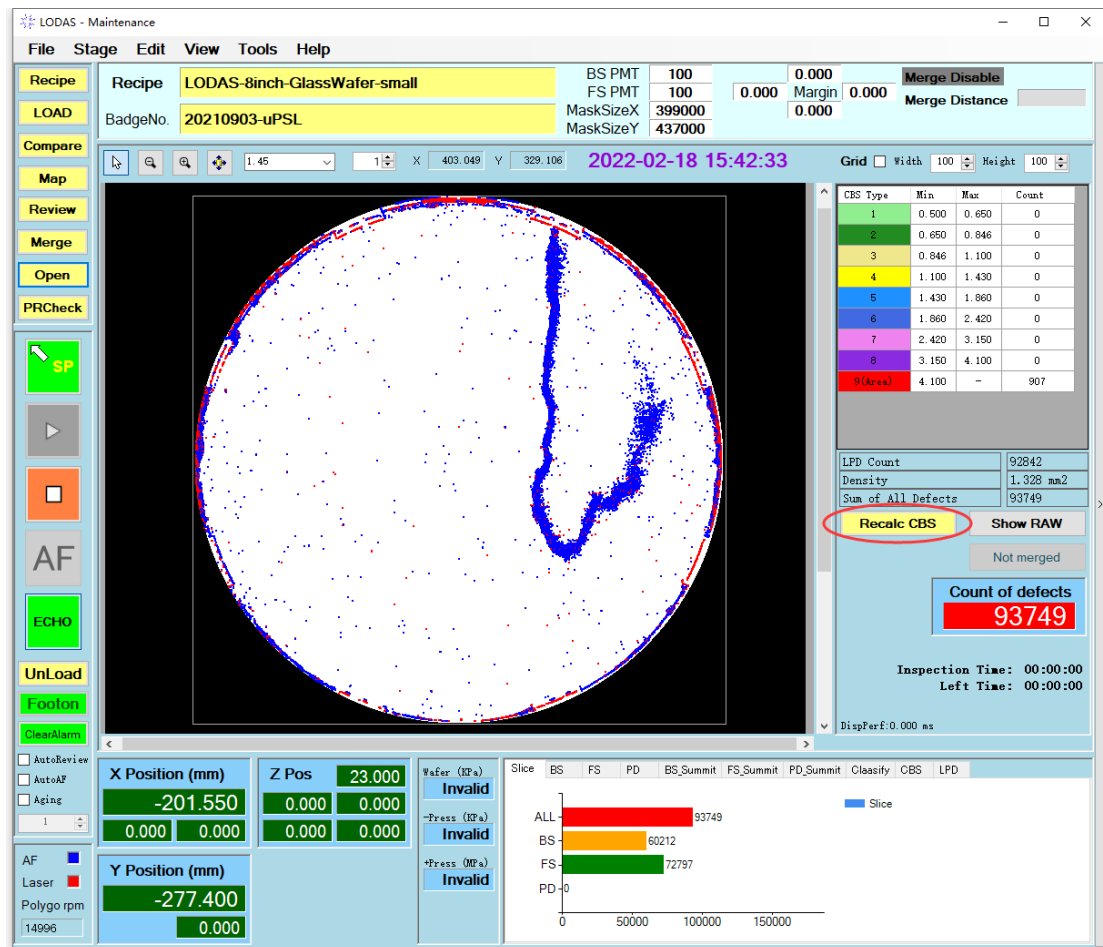
The relationship between signal strength (also called slice) and defect size (also called CBS value, Units are microns) is as follows

The image shows a 'Recipe Selection' dialog box with a 'CBS Config' tab. The dialog box contains a 'RecipeFile' field with the path 'D:\usr\LODAS\Recipe\LODAS-8inch-GlassWafer-small.rcp', a 'Badge No' field with the value '1', and a table with 9 rows. The table has columns for 'No.', 'Color', 'Enable', 'Slice', and 'CBS Value'. The 'Enable' column contains checkboxes, all of which are checked. The 'CBS Config' tab is selected, and the table is highlighted with a red border. Below the table, there is a checkbox for 'Auto Calc CBS' which is checked, and three buttons: 'Insert Row', 'Delete Row', and 'Default Value'. At the bottom of the dialog box, there are three buttons: 'Save', 'OK', and 'Cancel'.

No.	Color	Enable	Slice	CBS Value
1	Green	<input checked="" type="checkbox"/>	200	0.500
2	Dark Green	<input checked="" type="checkbox"/>	600	0.650
3	Yellow	<input checked="" type="checkbox"/>	1000	0.846
4	Light Yellow	<input checked="" type="checkbox"/>	1400	1.100
5	Blue	<input checked="" type="checkbox"/>	1800	1.430
6	Dark Blue	<input checked="" type="checkbox"/>	2200	1.860
7	Pink	<input checked="" type="checkbox"/>	2600	2.420
8	Purple	<input checked="" type="checkbox"/>	3000	3.150
9	Red	<input checked="" type="checkbox"/>	3400	4.100

Original inspection result

After inspection, Defects are only divided into BS FS PD.



CBS calculate result displayed

After using the CBS function for classification, A histogram representation of each intensity magnitude is displayed.

