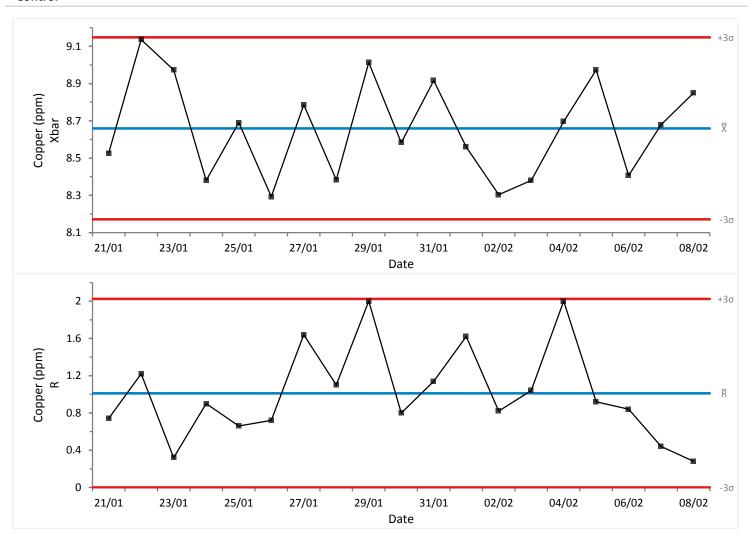
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Control



Montgomery rules: 1, 2, 3, 5, 8 applied to Xbar statistic.

Process parameters

	Mean	Sigma
Copper (ppm)	8.660	0.3991

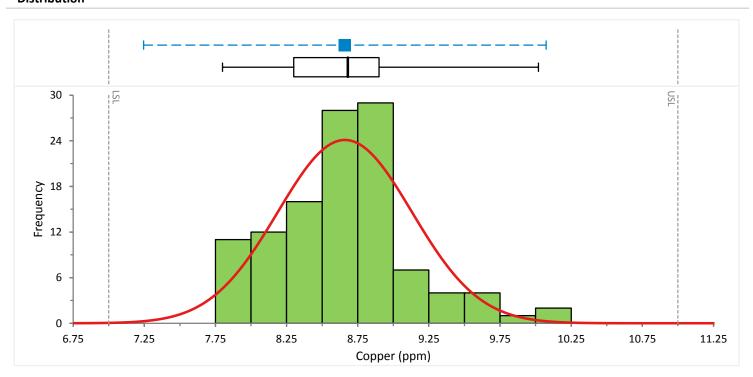
¹ Sigma estimated by Rbar.

Process control statistics

Statistic	Sample size	Centre	±3-sigma limits	
Xbar	6	8.660	8.171 to 9.148	
R	6	1.011	0.000 to 2.025	

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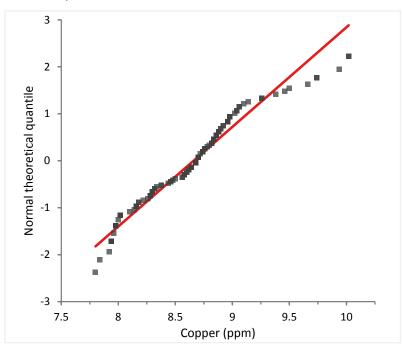
Distribution



Copper concentration in plating pool

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Normality



Shapiro-Wilk test

	W statistic	p-value
Copper (ppm)	0.96	0.0009 1

H0: $F(Y) = N(\mu, \sigma)$

The distribution of the population is normal with unspecified mean and standard deviation.

H1: $F(Y) \neq N(\mu, \sigma)$

The distribution of the population is not normal.

 $^{^{\}rm 1}$ Reject the null hypothesis in favour of the alternative hypothesis at the 10% significance level.

Process Control: Copper

■ Analyse-it v4.60

Copper concentration in plating pool

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Capability

Specification limits	7.00		
Mean	8.660		
Long-term sigma	0.471		
Capability ratio	Index	95%	6 CI
Рр	1.414	1.230	to 1.598
Ppl	1.173	1.035	to 1.312
Ppu	1.655	1.466	to 1.843
Ppk	1.173	1.009 to 1.338	
I			
Nonconforming units	Observed (%)	Expected (%)	Expected (PPM)
< LSL	0.0000%	0.0216%	216
> USL	0.0000%	0.0000%	0
< SL >	0.0000%	0.0216%	216
Benchmark	Z		
< LSL	-3.52		
> USL	4.96		
< SL >	3.52		