




Test Monitoring Center

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412-365-1000

MEMORANDUM: 13-025
DATE: May 3, 2013
TO: Thomas D. Gottwald, Chairman, L-42 Surveillance Panel
FROM: Scott Parke 
SUBJECT: L-42 Rater Calibration from October 1, 2012 through March 31, 2013

Please find attached a summary of L-42 rater calibration activity this period.

SDP/sdp/mem13-025.sdp.doc

cc: Frank Farber

Jeff Clark

L-42 Surveillance Panel

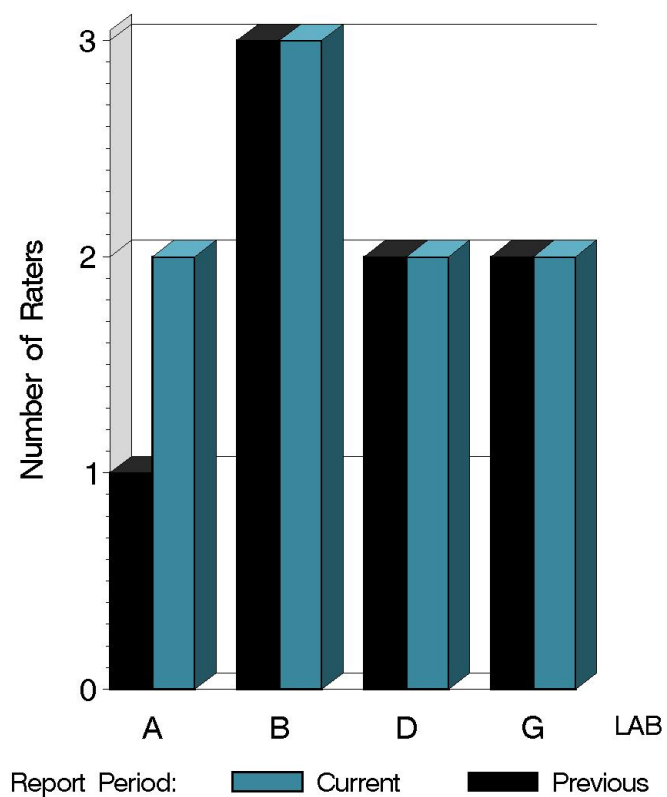
<ftp://ftp.astmtmc.cmu.edu/docs/gear/l42rc/semiannualreports/l42rc-04-2013.pdf>

Distribution: email

L-42 Rater Calibration

	Reporting Data	Calibrated on 3-31-13
Number of Labs	4	4
Number of Raters	9	9

BY-LAB RATER
DISTRIBUTION



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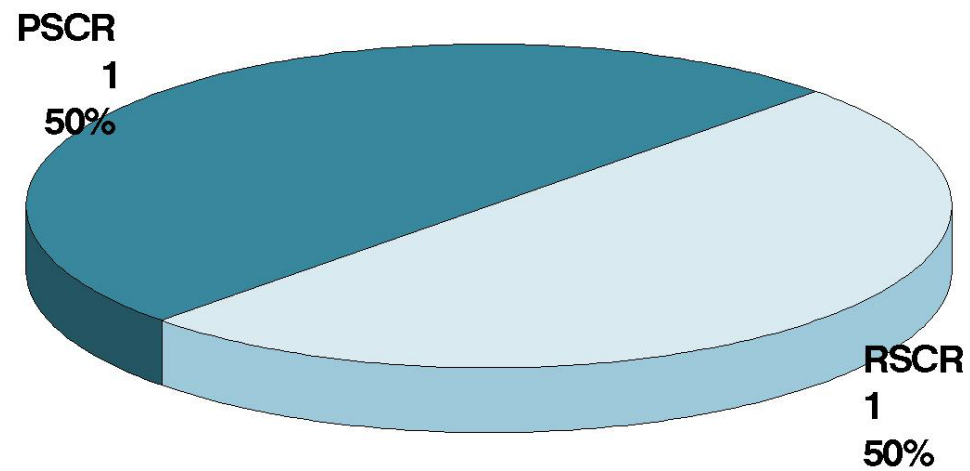
L-42 Rater Calibration

Test Distribution by Validity

		Totals	
		Last Period	This Period
Accepted for calibration	AC	11	10
Rejected (Mild)	OC	0	0
Rejected (Severe)	OC	0	1
Rejected (Multiple)	OC	0	0
Rejected (Precision)	OC	0	1
Workshop data	AG	12	27
Total		23	39

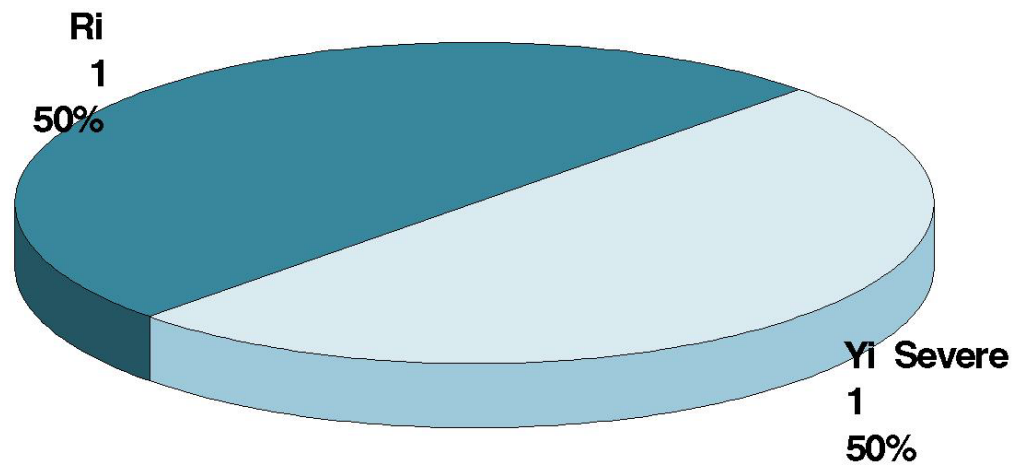
L-42 Rater Calibration

FAILED TESTS (by Parameter)



L-42 Rater Calibration

FAILED TESTS (by Alarm Type)



L-42 Rater Calibration

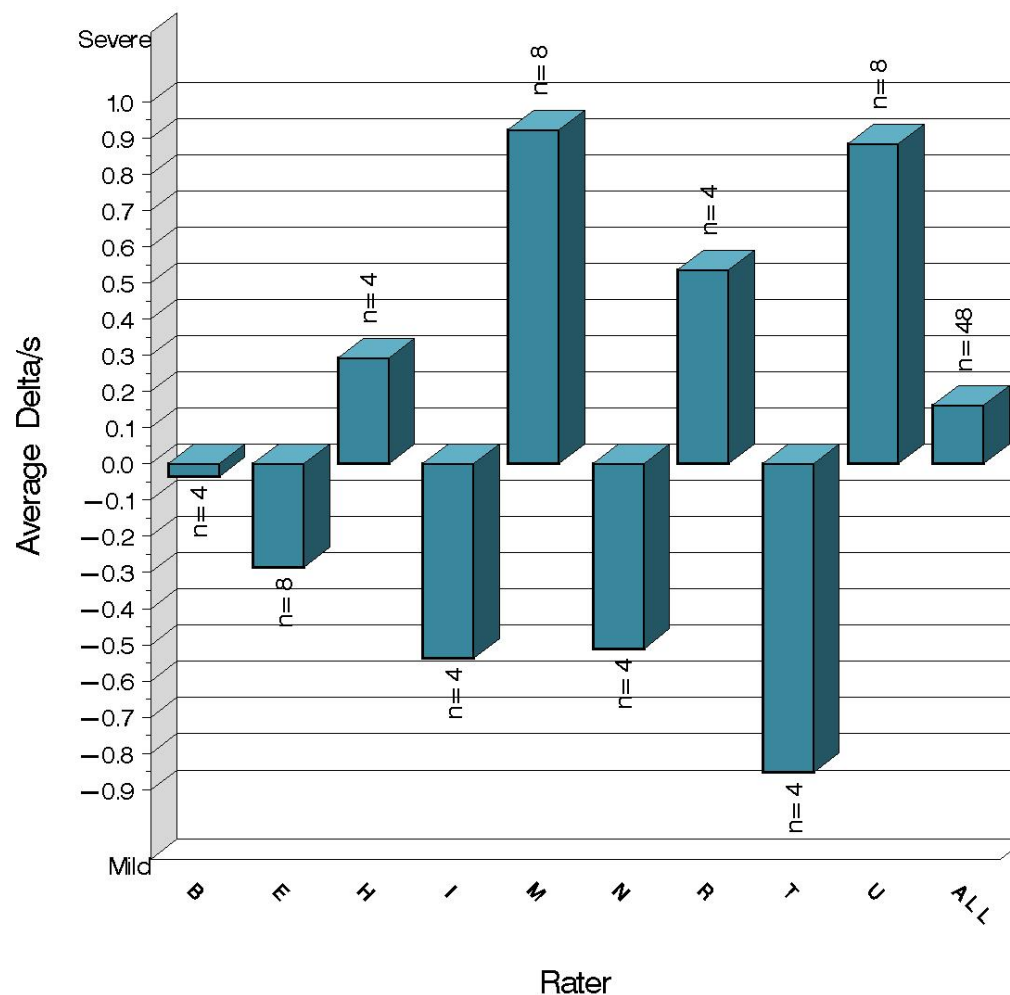
Rater	N	PSCR		RSCR	
		Avg Yi	STD*	Avg Yi	STD*
B	4	-0.034	0.173	-0.451	0.193
E	8	-0.285	0.477	-0.578	0.770
H	4	0.293	0.287	-0.221	0.573
I	4	-0.536	1.701	-0.166	1.068
M	8	0.922	2.092	-0.076	0.673
N	4	-0.511	0.919	-0.681	0.796
R	4	0.535	0.801	0.605	0.795
T	4	-0.853	0.526	-0.885	0.702
U	8	0.884	0.857	0.663	1.045
ALL	48	0.161	1.227	-0.149	0.893

* Due to the small number of ratings per part, the standard deviation of the Yi values is given in place of a pooled standard deviation.

L-42 Rater Calibration

PINION SCORING

Severity as Measured by Delta/s

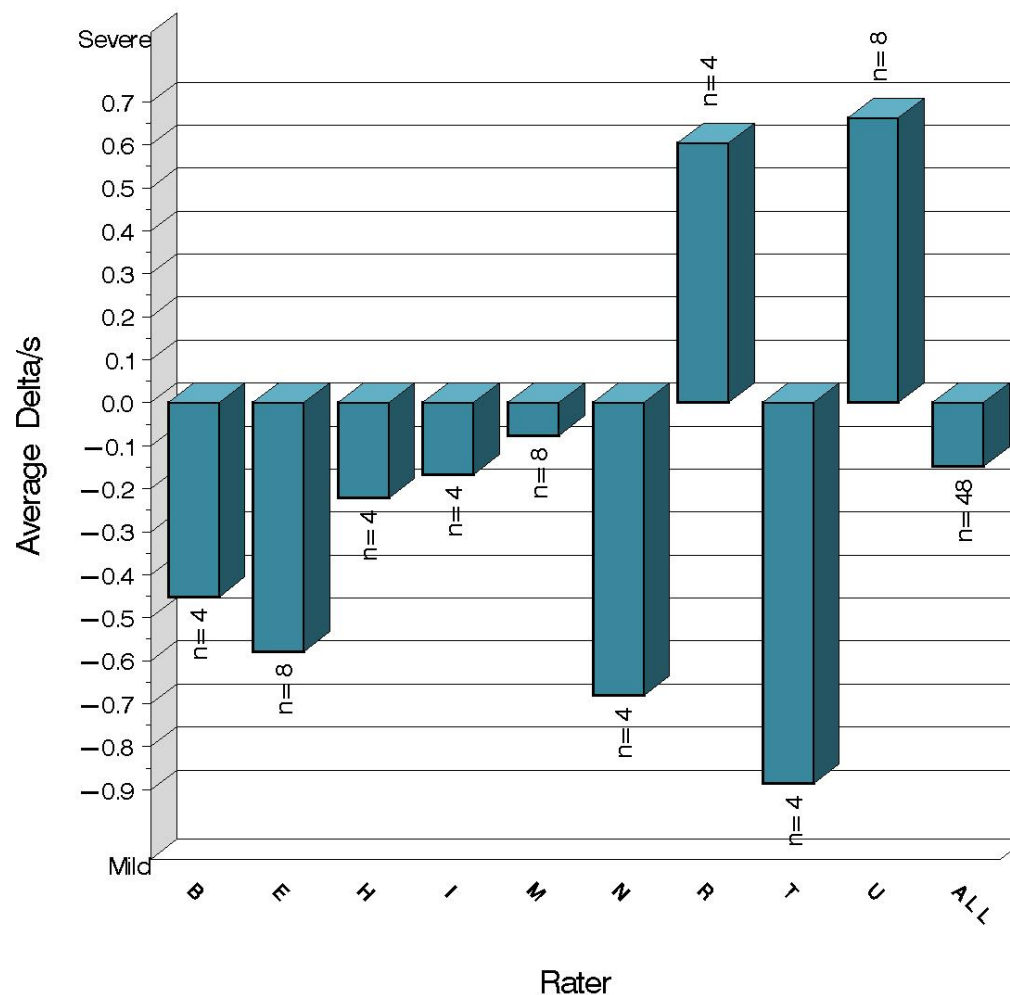


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L-42 Rater Calibration

RING SCORING

Severity as Measured by Delta/s

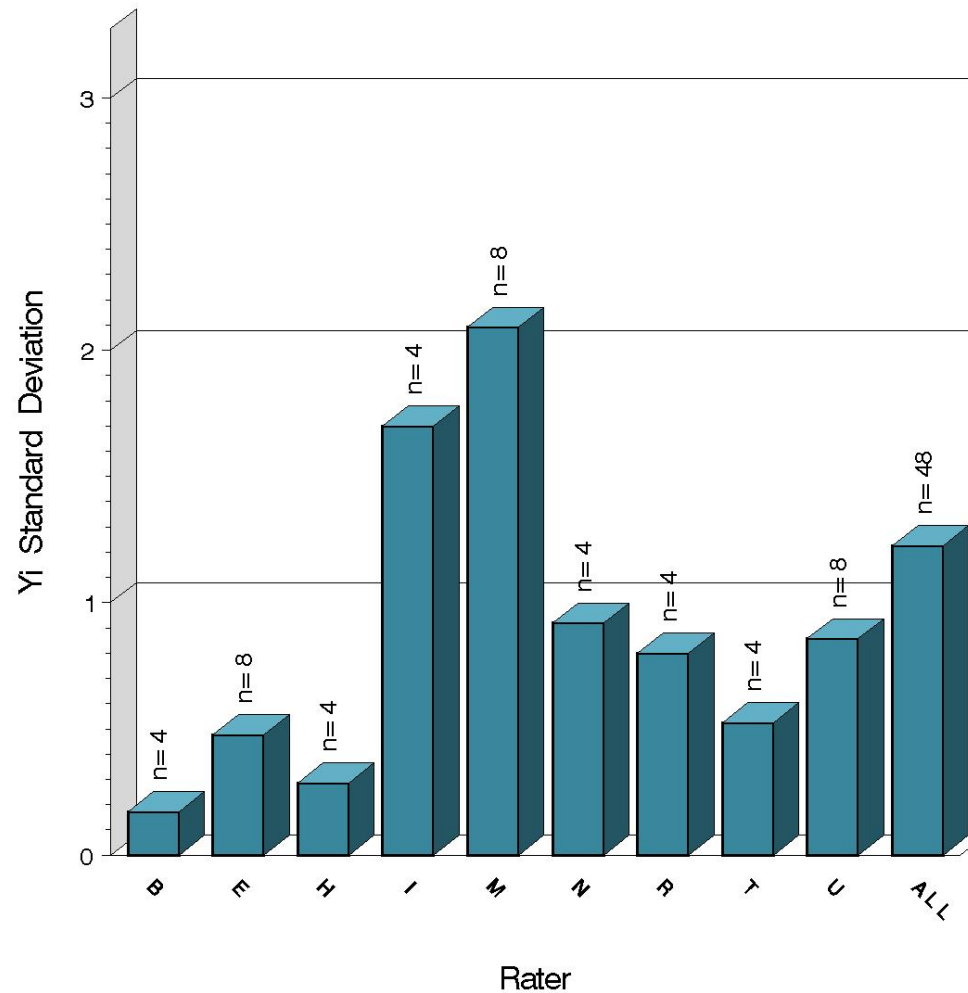


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L-42 Rater Calibration

PINION SCORING

Precision as Measured by Yi STD

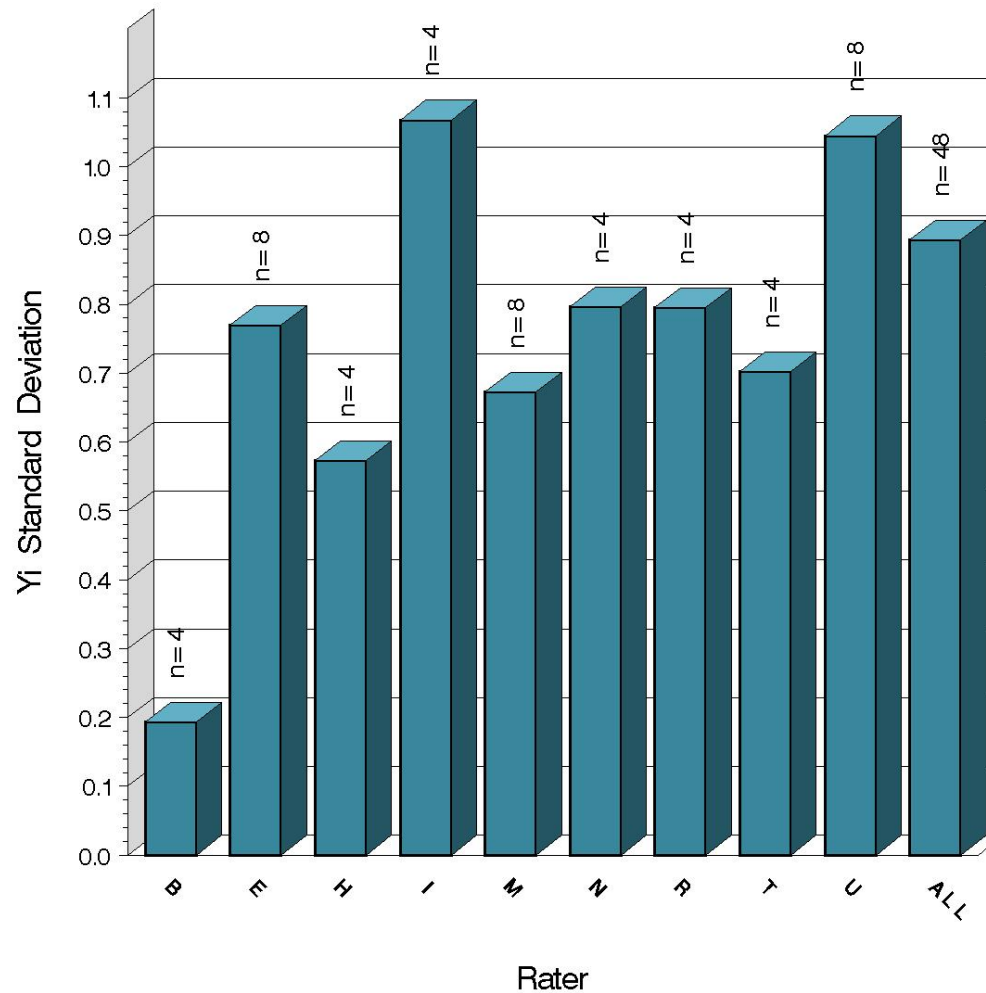


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L-42 Rater Calibration

RING SCORING

Precision as Measured by Yi STD



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L-42 Rater Calibration

SUMMARY OF SEVERITY & PRECISION

Severity
PSCR was generally slightly severe over this period; RSCR was slightly mild.
Precision
Precision for both parameters remained within acceptable limits.

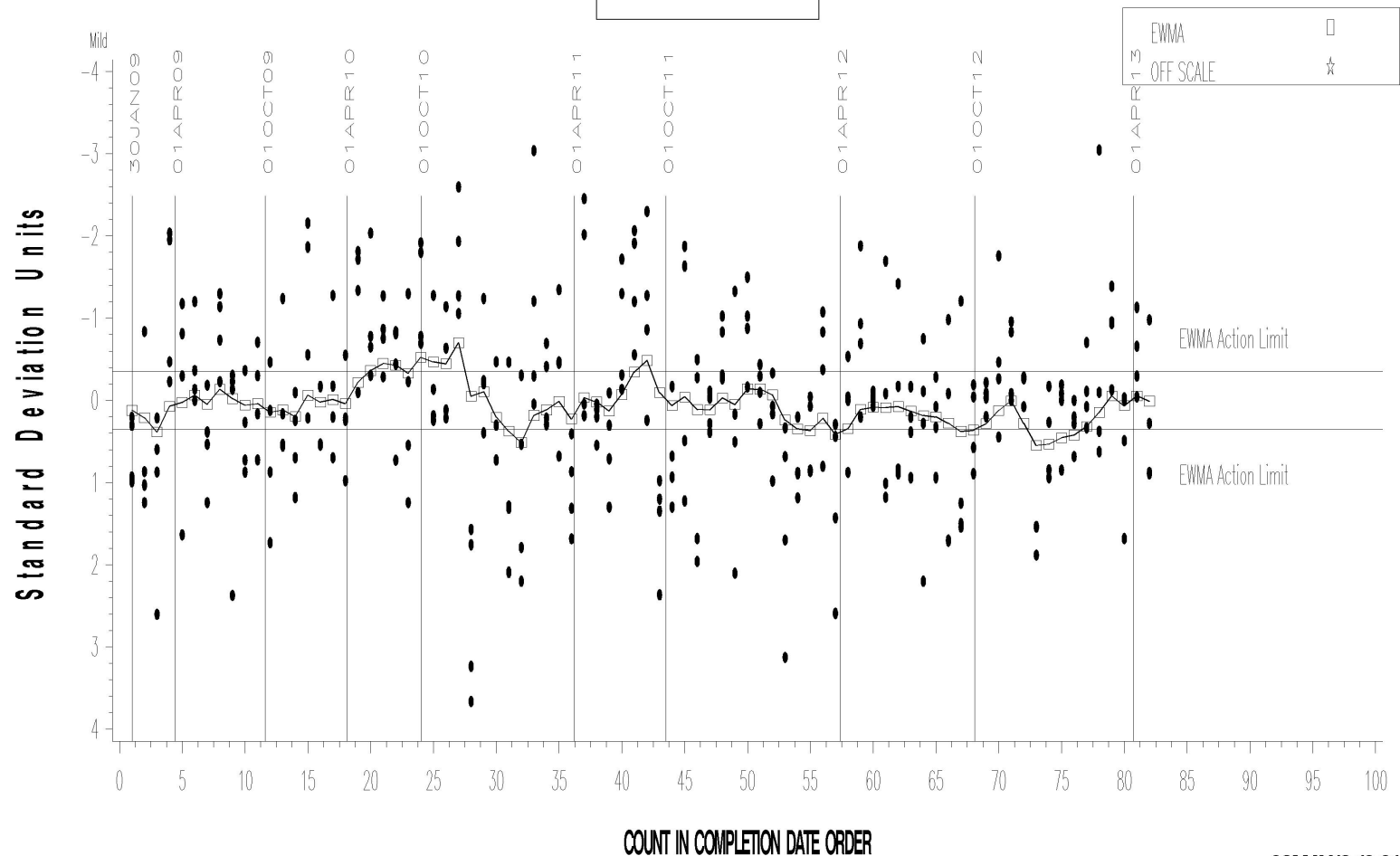
Industry control charts follow.

L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Severity Analysis

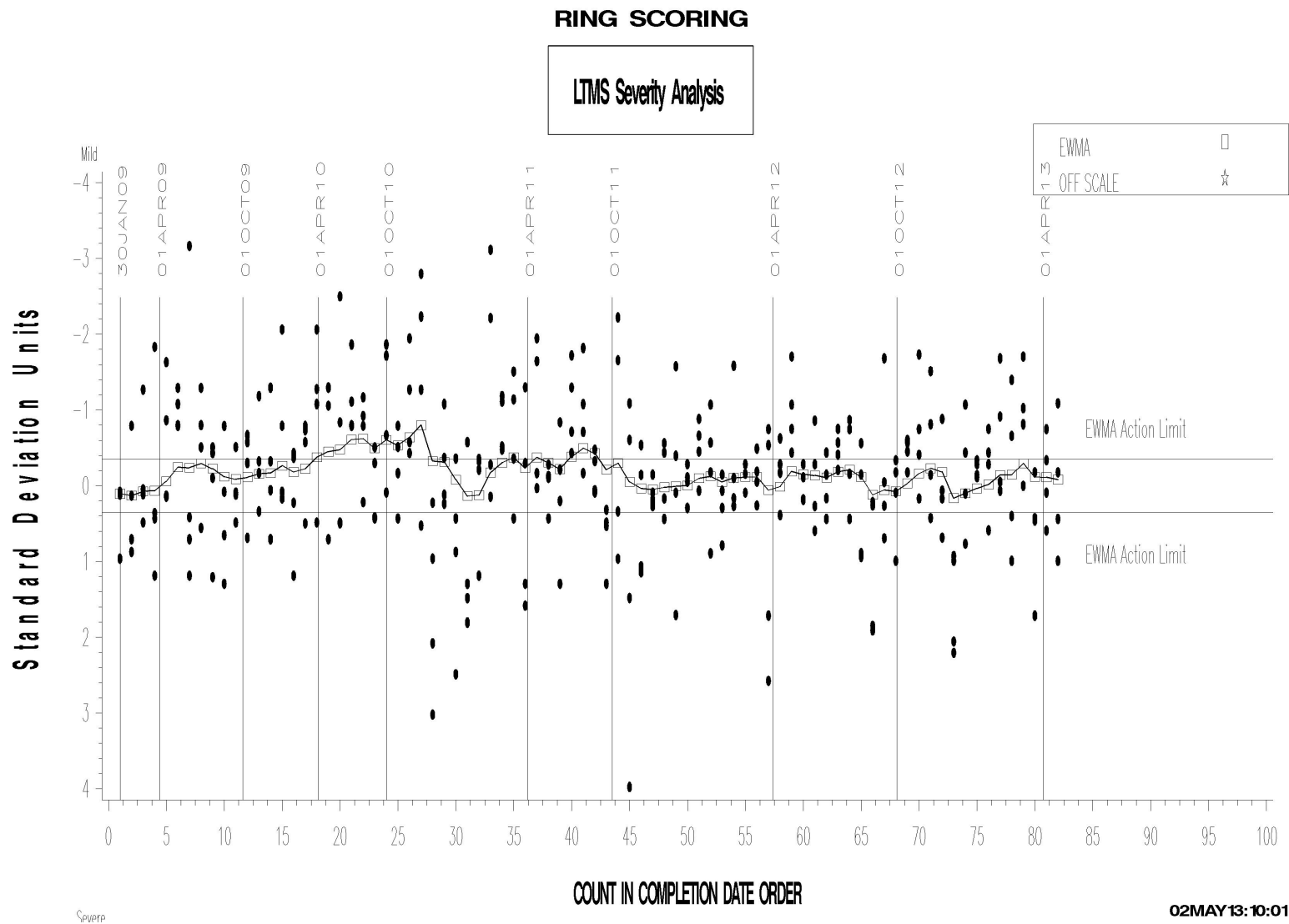


Severp

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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

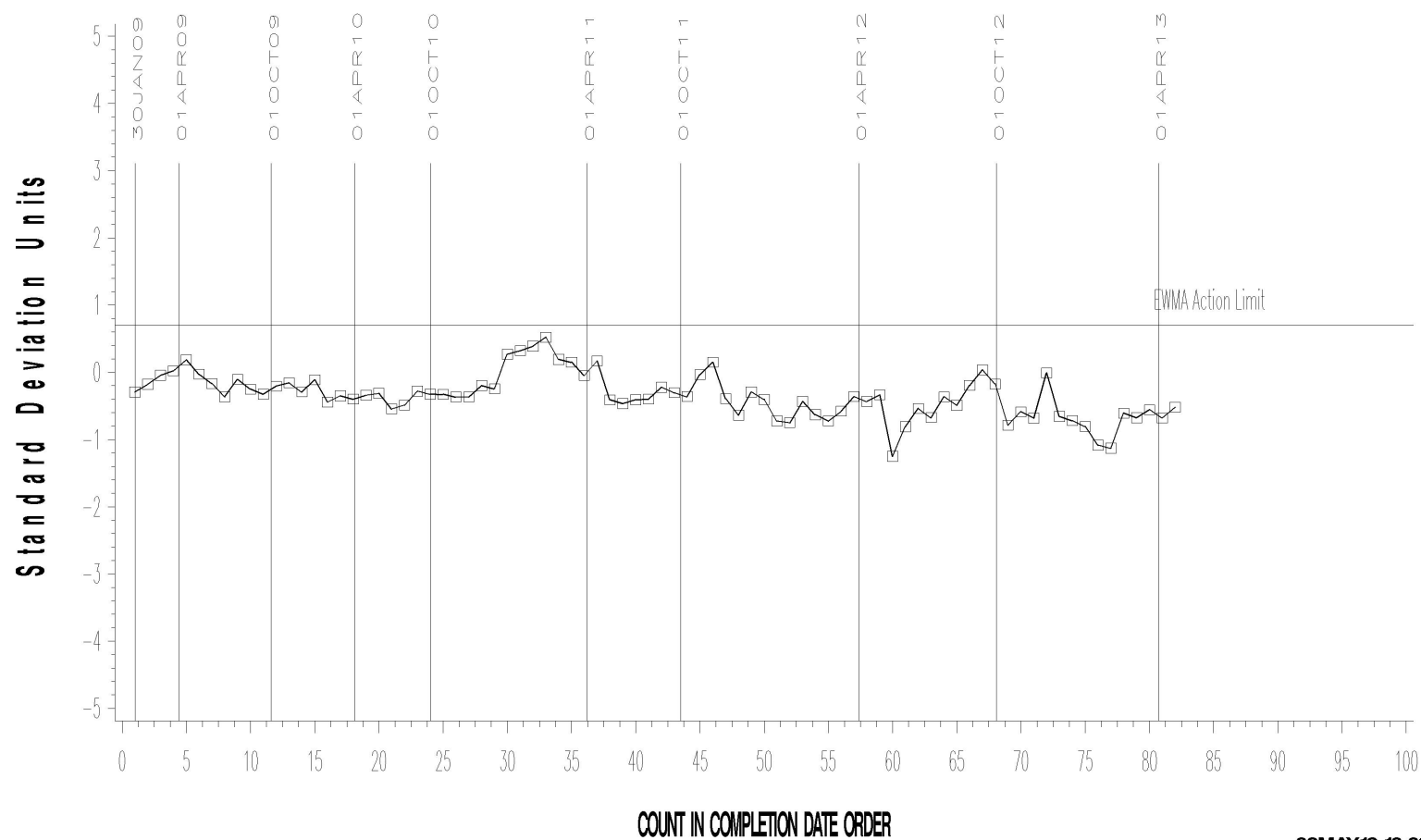


L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

LTMS Precision Analysis



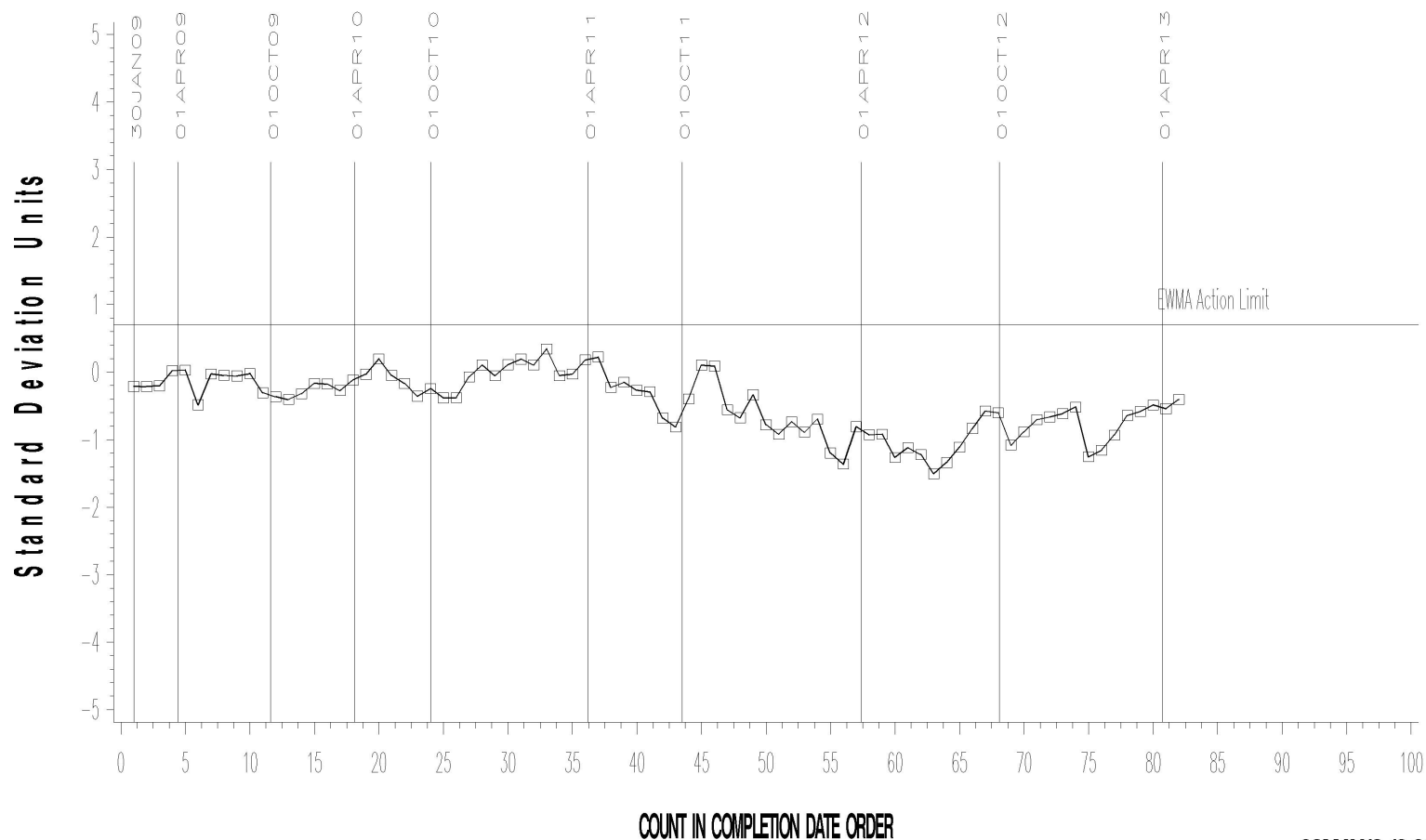
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

LTMS Precision Analysis



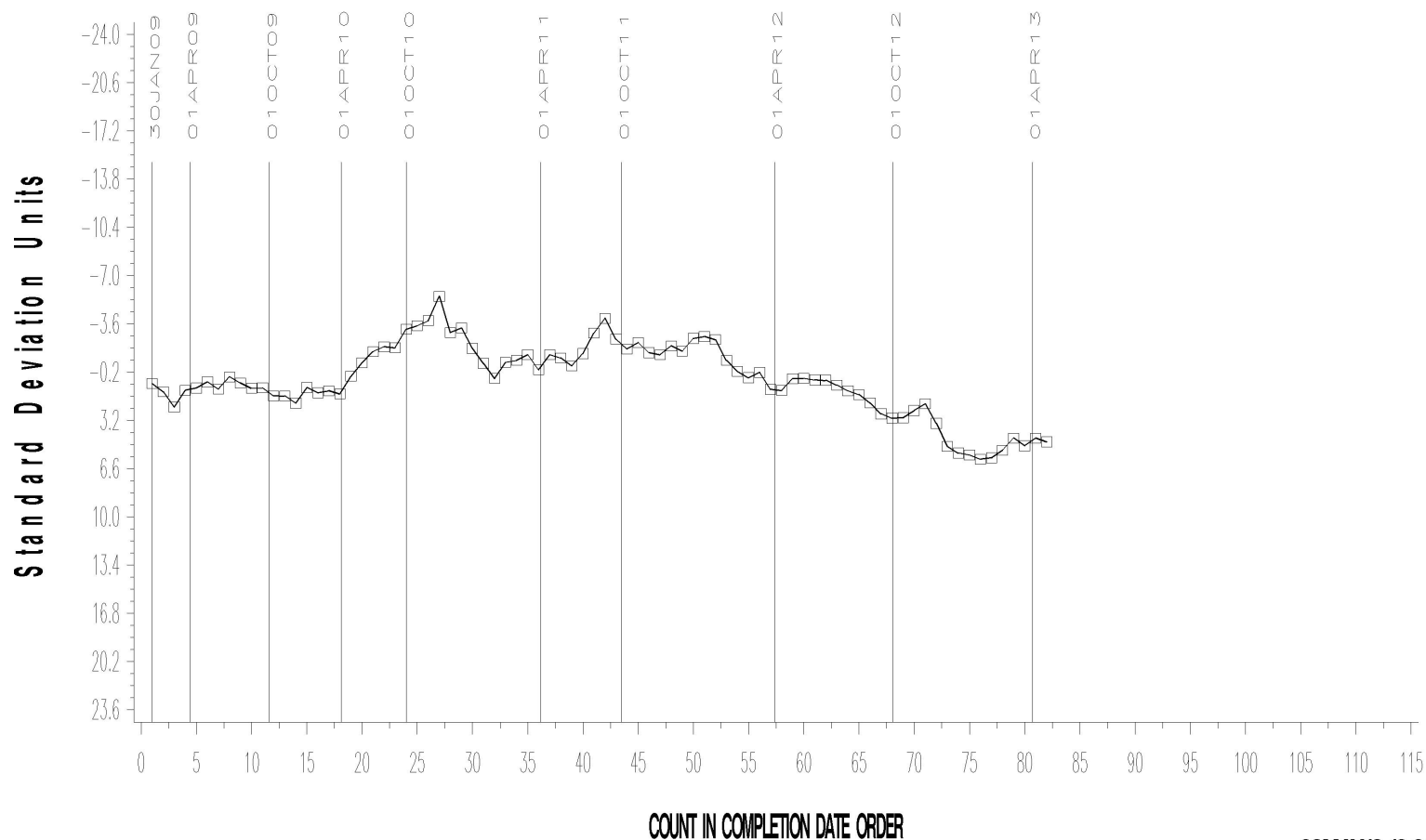
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

PINION SCORING

CUSUM Severity Analysis



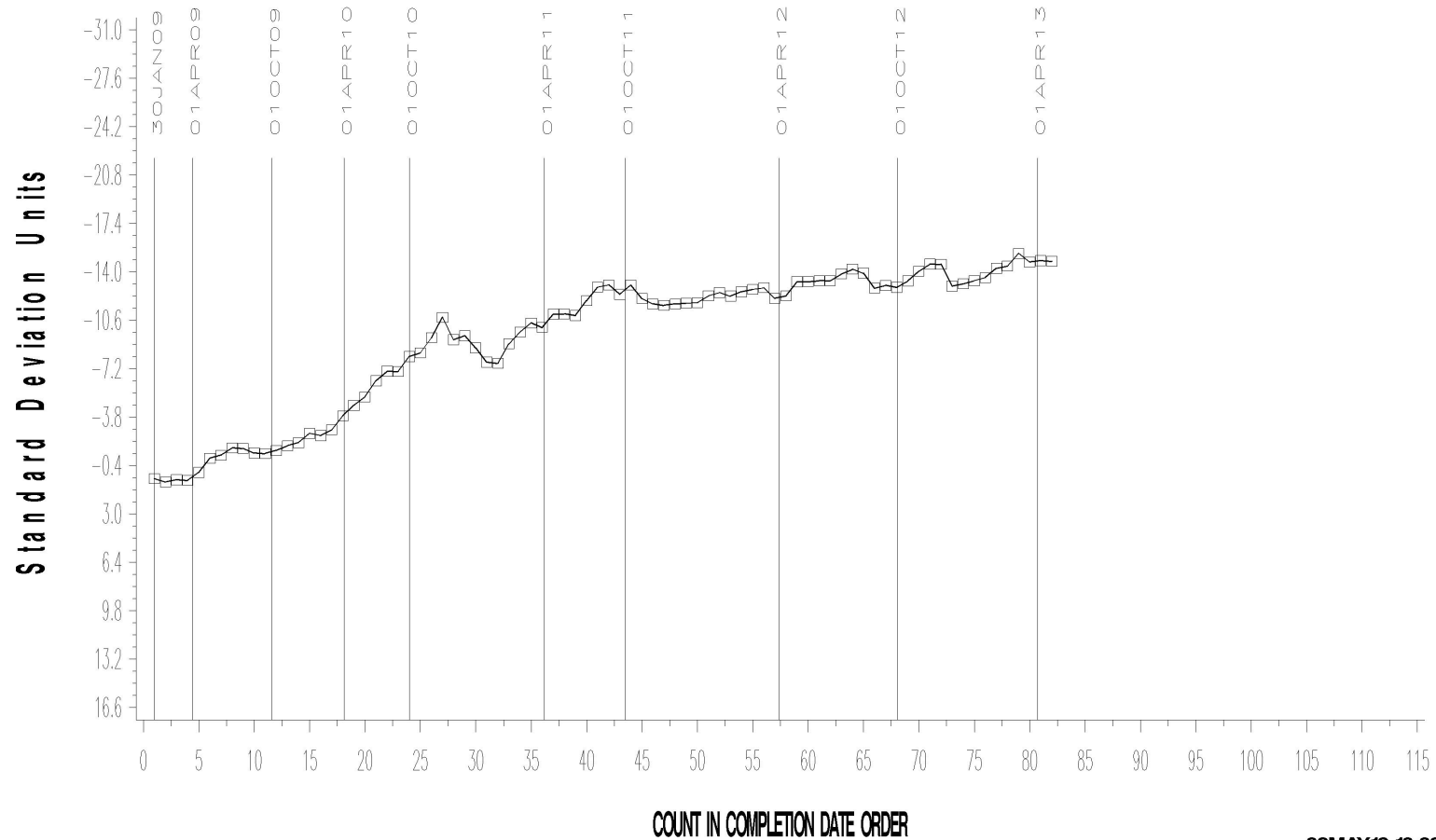
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L-42 Rater Calibration

L-42 RATER CALIBRATION INDUSTRY OPERATIONALLY VALID DATA

RING SCORING

CUSUM Severity Analysis



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