



Test Monitoring Center

@ Carnegie Mellon University
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<http://astmtmc.cmu.edu>
412-365-1000

MEMORANDUM: 14-011
DATE: May 20, 2014
TO: Gil Reinhard, Chairman, CBT Surveillance Panel
FROM: Michael T. Kasimirsky *Michael T. Kasimirsky*
SUBJECT: HTCBT Testing from October 1, 2013 through March 31, 2014

A total of 290 HTCBT tests were reported to the Test Monitoring Center during the report period from October 1, 2013 through March 31, 2014.

Please find attached a summary of testing activity this period.

MTK/mtk/astm0414.doc/mem14-011.mtk.doc

cc: F. M. Farber

J. A. Clark

CBT Surveillance Panel

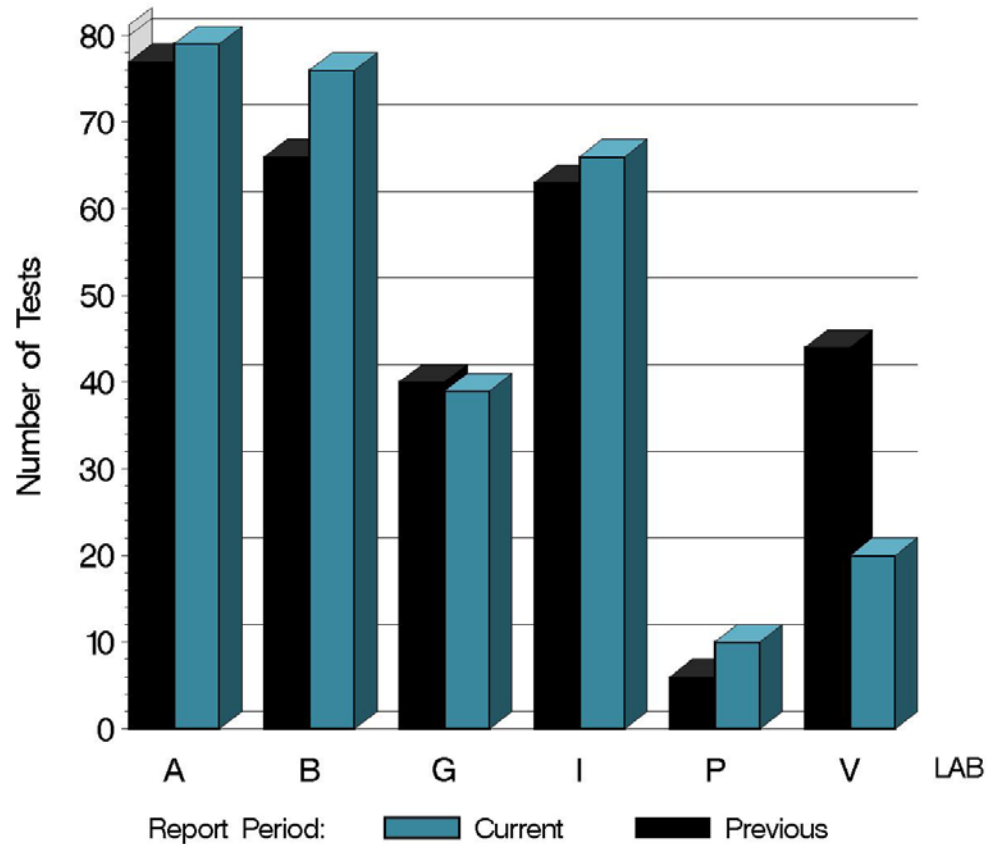
<ftp://ftp.astmtmc.cmu.edu/docs/bench/htcvt/semiannualreports/htcvt-04-2014.pdf>

Distribution: email

HTCBT (D 6594)

Reporting Data	
Number of Labs	6

NUMBER OF TESTS REPORTED
BY LAB AND REPORT PERIOD



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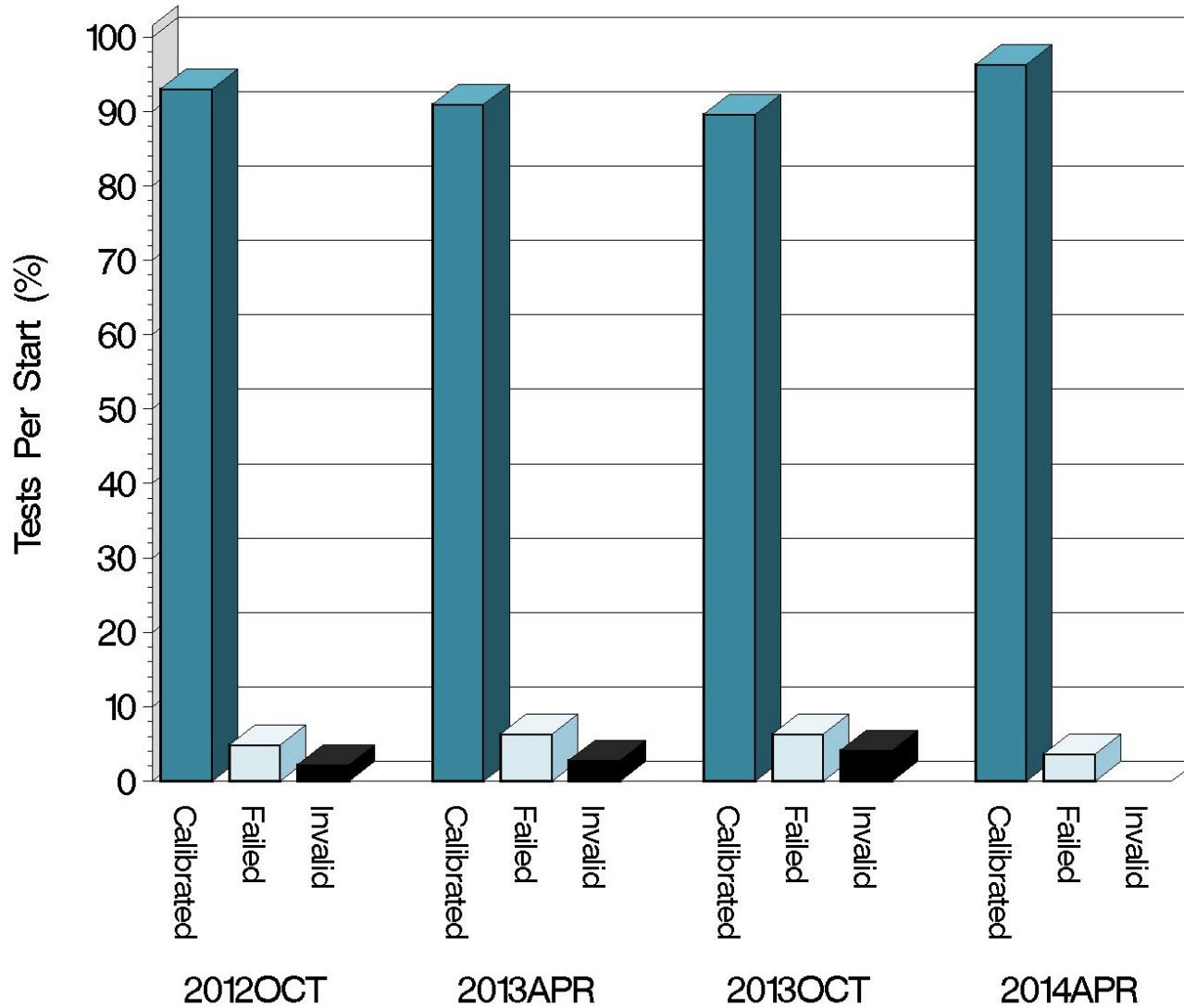
HTCBT (D 6594)

Test Distribution by Validity

		Number of Tests
Accepted for calibration	AC	237
Rejected	OC	9
Invalidated	LC	0
Aborted	XC	0
Acceptable Shakedown Run	AG	4
Unacceptable Shakedown Run	OG	16
Aborted Shakedown Run	XG	0
Hardware Approval Run	NI	23
Unacceptable Hardware Run	MI	1
Total		290

HTCBT (D 6594)

CALIBRATION ATTEMPT SUMMARY



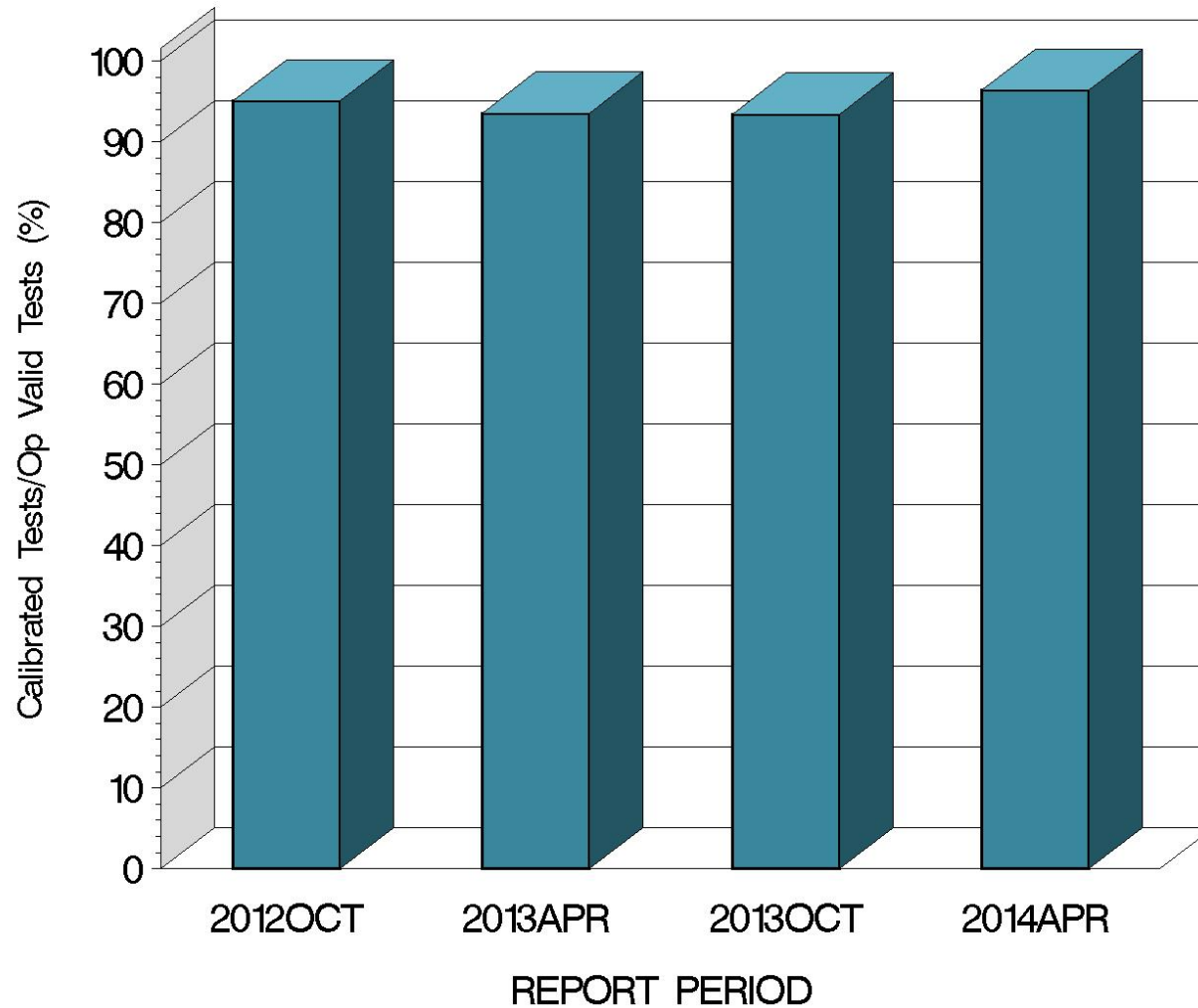
Resolution

Report Period

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HTCBT (D 6594)

OPERATIONALLY VALID TESTS
MEETING ACCEPTANCE CRITERIA



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HTCBT (D 6594)

CAUSES FOR LOST TESTS

Summary of Reasons for Failed Tests	No. of Tests
Copper, severe	1
Copper, mild	0
Lead, severe	1
Lead, mild	0
Copper & Lead, severe	5
Copper Severe, Lead Mild	2

HTCBT (D 6594)

CAUSES FOR LOST TESTS (CONTINUED)

Summary of Reasons for Invalid Tests	No. of Tests
No tests were invalid this period.	0

HTCBT (D 6594)

CAUSES FOR LOST TESTS (CONTINUED)

Summary of Reasons for Aborted Tests	No. of Tests
No tests were aborted this period.	0

HTCBT (D 6594)

Average Δ /s By Laboratory			
Lab	n	CUC	PBC
A	73	0.773	-0.533
B	70	0.811	-0.701
G	33	0.685	0.325
I	60	0.450	-0.023
P	10	5.022	-0.680
V	0	-	-
Industry	246	0.866	-0.347

Individual test results can be found on the TMC Web Page at the following link:

<ftp://ftp.astmtmc.cmu.edu/refdata/bench/htcbt/data/>

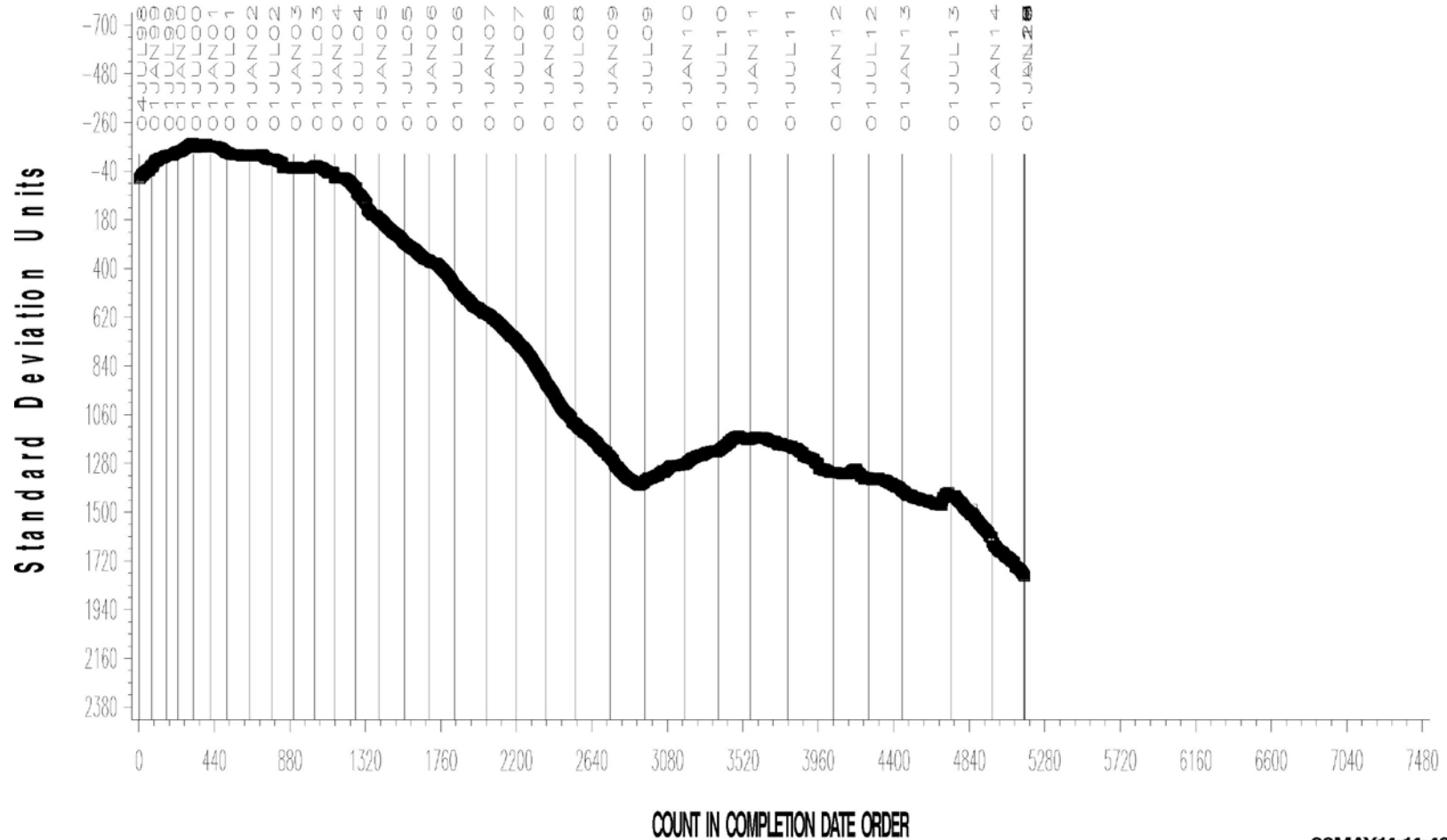
HTCBT (D 6594)

HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA



COPPER CHANGE (ppm)

CUSUM Severity Analysis



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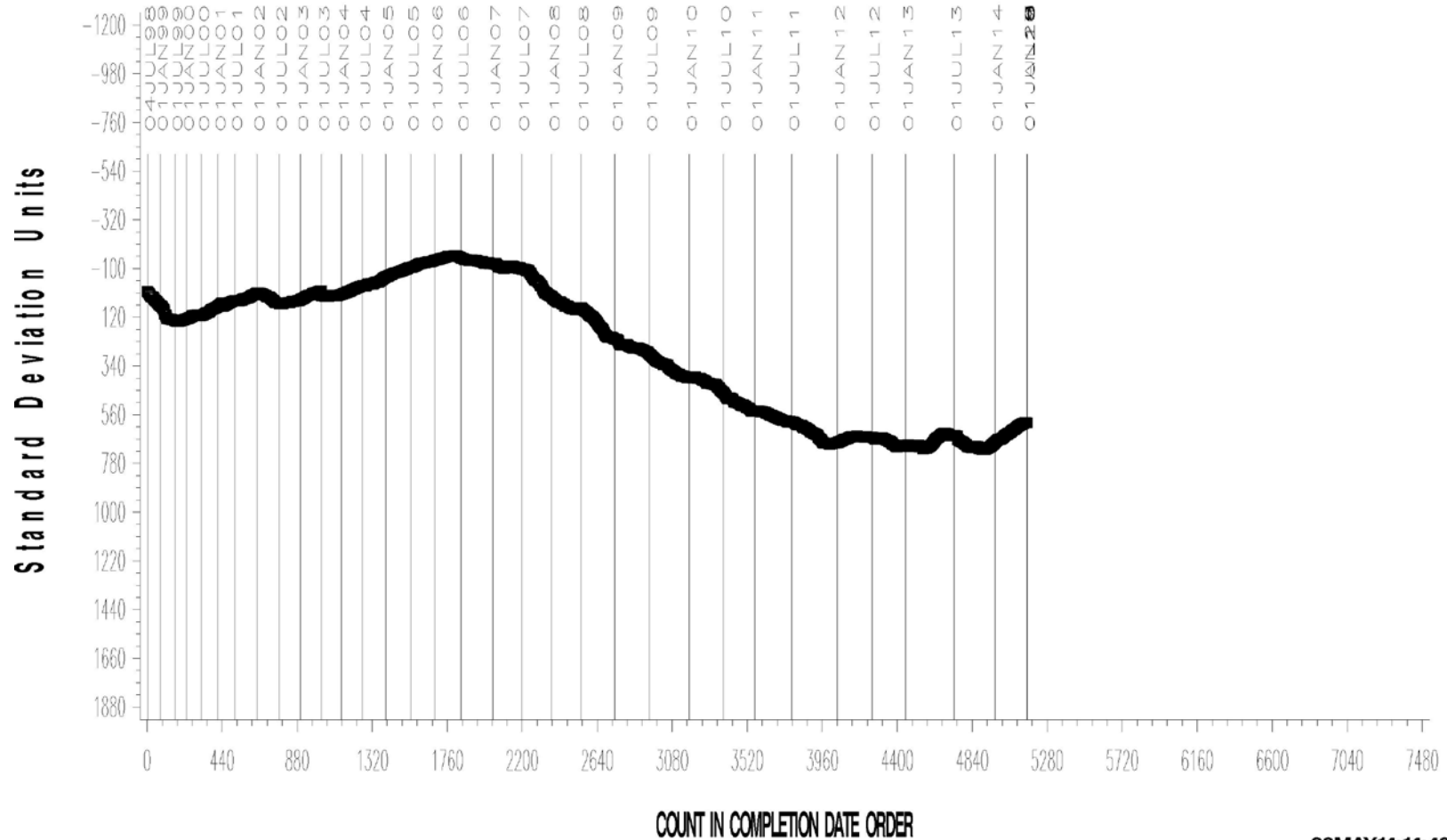
HTCBT (D 6594)

HIGH TEMP CBT INDUSTRY OPERATIONALLY VALID DATA



LEAD CHANGE (ppm)

CUSUM Severity Analysis

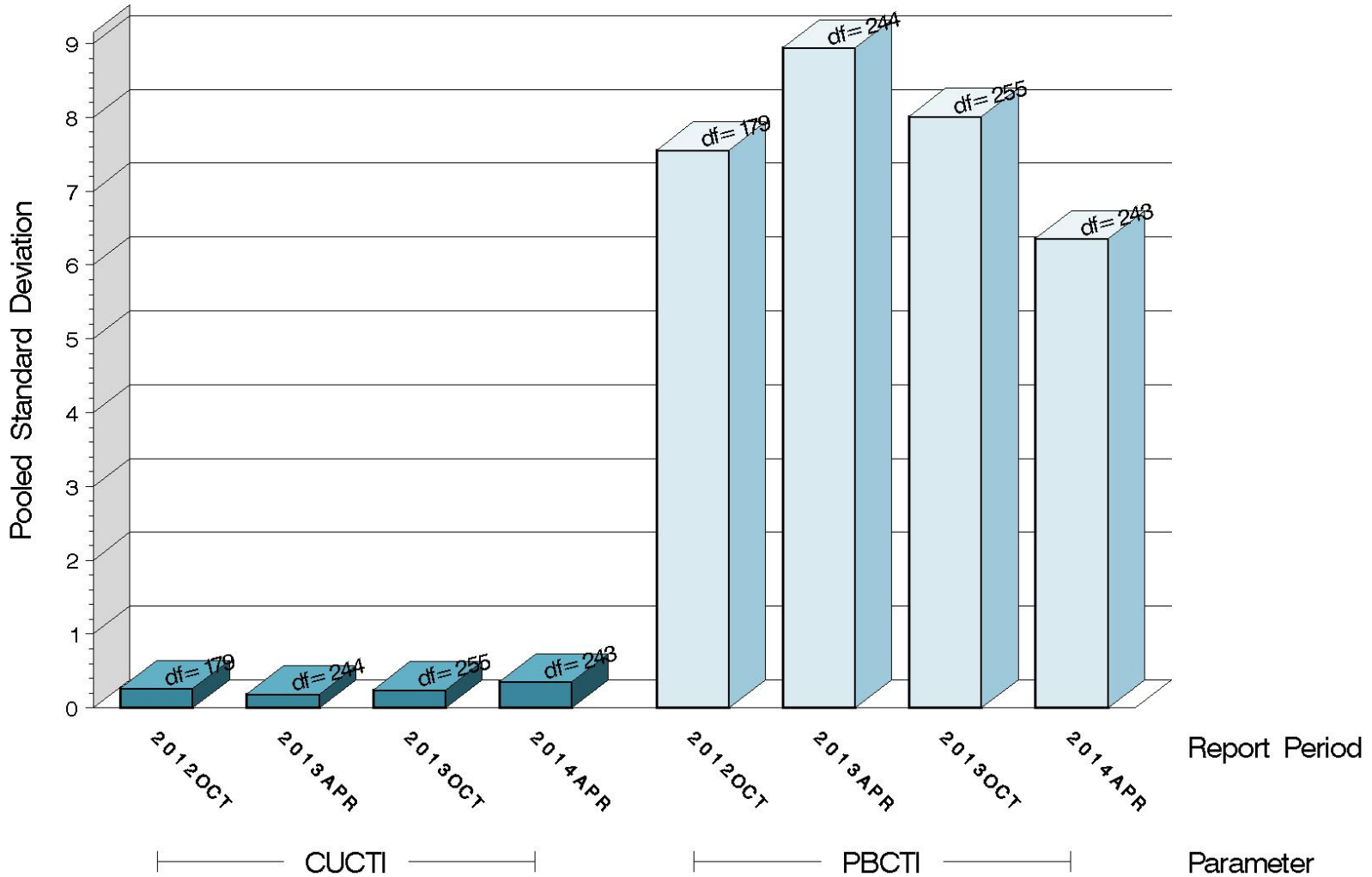


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HTCBT (D 6594)

TEST PRECISION

POOLED STANDARD DEVIATION
BY SIX-MONTH ASTM REPORT PERIOD



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HTCBT (D 6594)

SUMMARY OF SEVERITY & PRECISION

Severity

Over the course of this report period, copper severity, as measured by cusum plotting, was severe.

Over the course of this report period, lead severity, as measured by cusum plotting, was slightly mild.

Precision

Pooled s for this period is 0.36 for copper and 6.35 for lead.

Over the course of this report period, Precision, as measured by pooled standard deviation, is slightly worse than previous periods for copper and is better than the previous period for lead, but is still within historical levels.

HTCBT (D 6594)

INFORMATION LETTERS

No HTCBT Information Letters were issued this period.

HTCBT (D 6594)

STATUS OF REFERENCE OIL SUPPLY

Reference Oil	Samples @ Labs	@ TMC	
		Samples (4 oz)	Gallons
44-1	0	0	0.0
44-2	0	0	0.0
44-3	127	560	17.5
1005-1	0	0	0.0
1005-3	86	505	15.8
Total	213	1065	33.3