



This project is co-funded by
the European Union and the
Common Fund for Commodities



CSITC Task Force Contributions

Axel Drieling
Bremen Fibre Institute (FIBRE) /
ICA Bremen

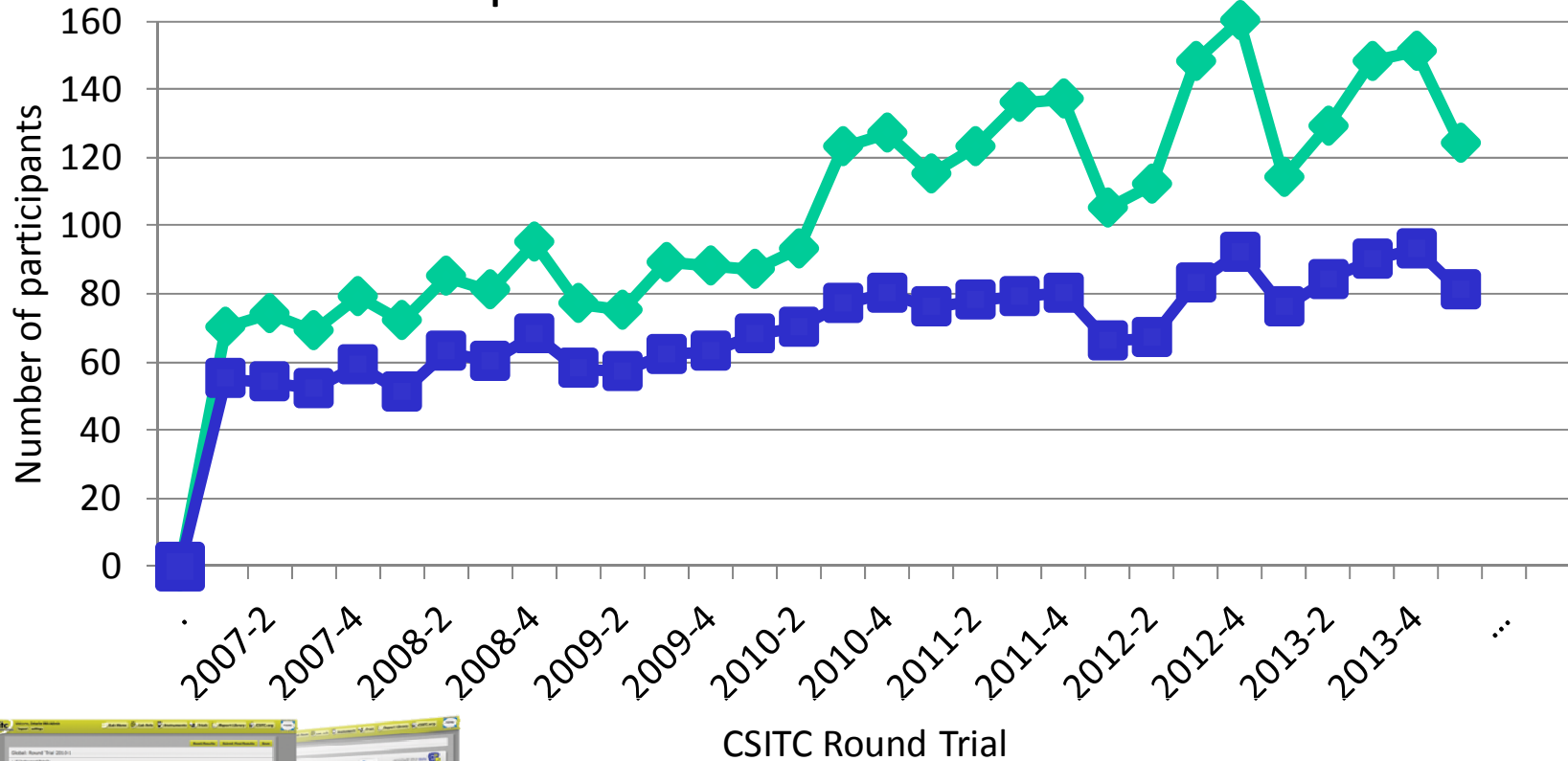


20th Meeting of the CSITC Task Force
Bremen, Germany, March 19, 2014

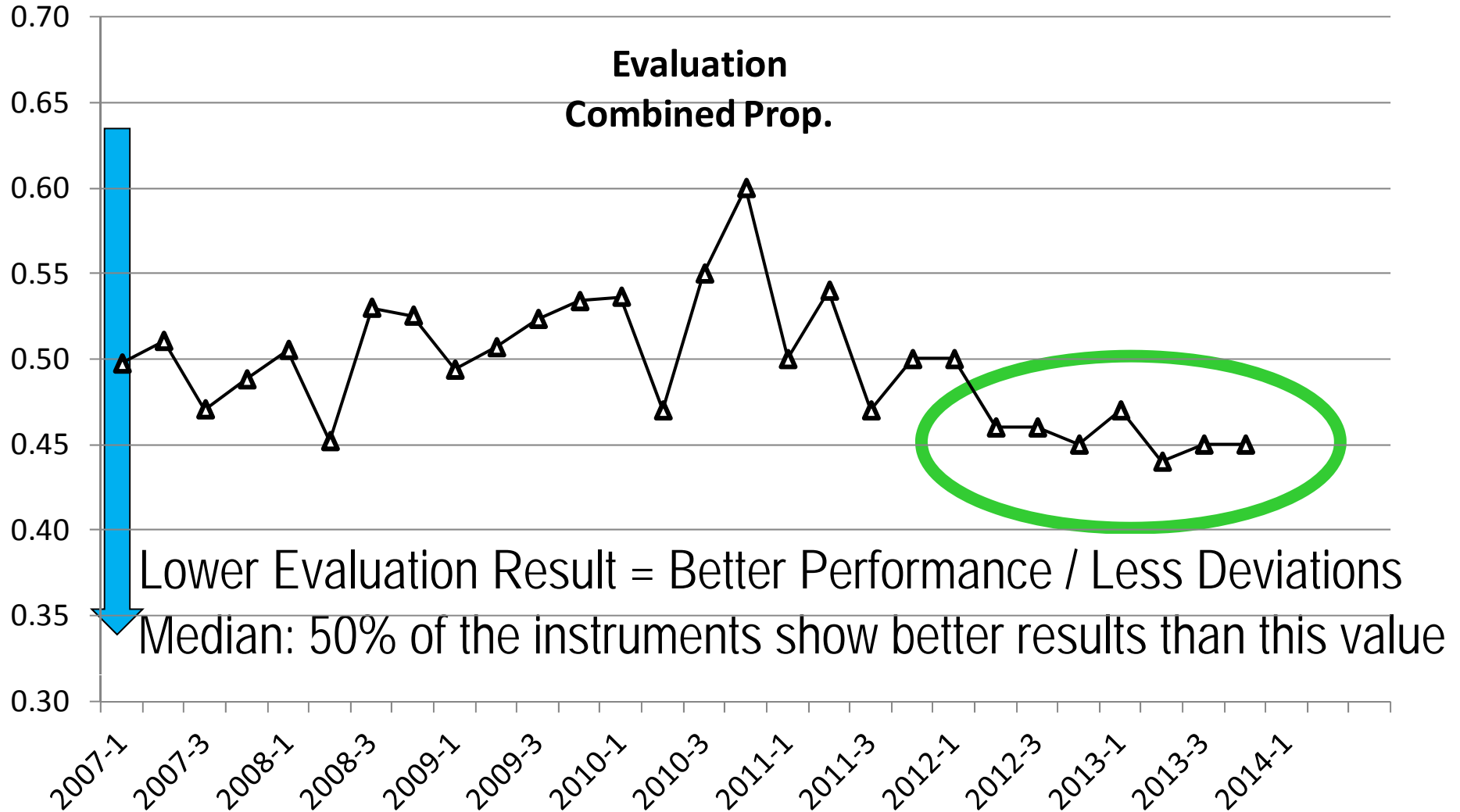


CSITC RT Participation up to RT 2014-1

Participants in the CSITC Round Trials



CSITC RT: Evaluation of Combined Properties (to 2013-4)



Evaluations for Each Property

	Median Evaluations						
	Evaluation Combined Prop.	Evaluation Micronaire	Evaluation Strength	Evaluation Length	Evaluation Uniformity	Evaluation Color Rd	Evaluation Color +b
Average	0.50	0.49	0.45	0.40	0.37	0.48	0.48
.
2013-1	0.47	0.40	0.39	0.35	0.40	0.41	0.49
2013-2	0.44	0.43	0.38	0.38	0.36	0.47	0.47
2013-3	0.45	0.40	0.36	0.37	0.38	0.47	0.53
2013-4	0.45	0.44	0.41	0.39	0.37	0.39	0.44
2014-1							



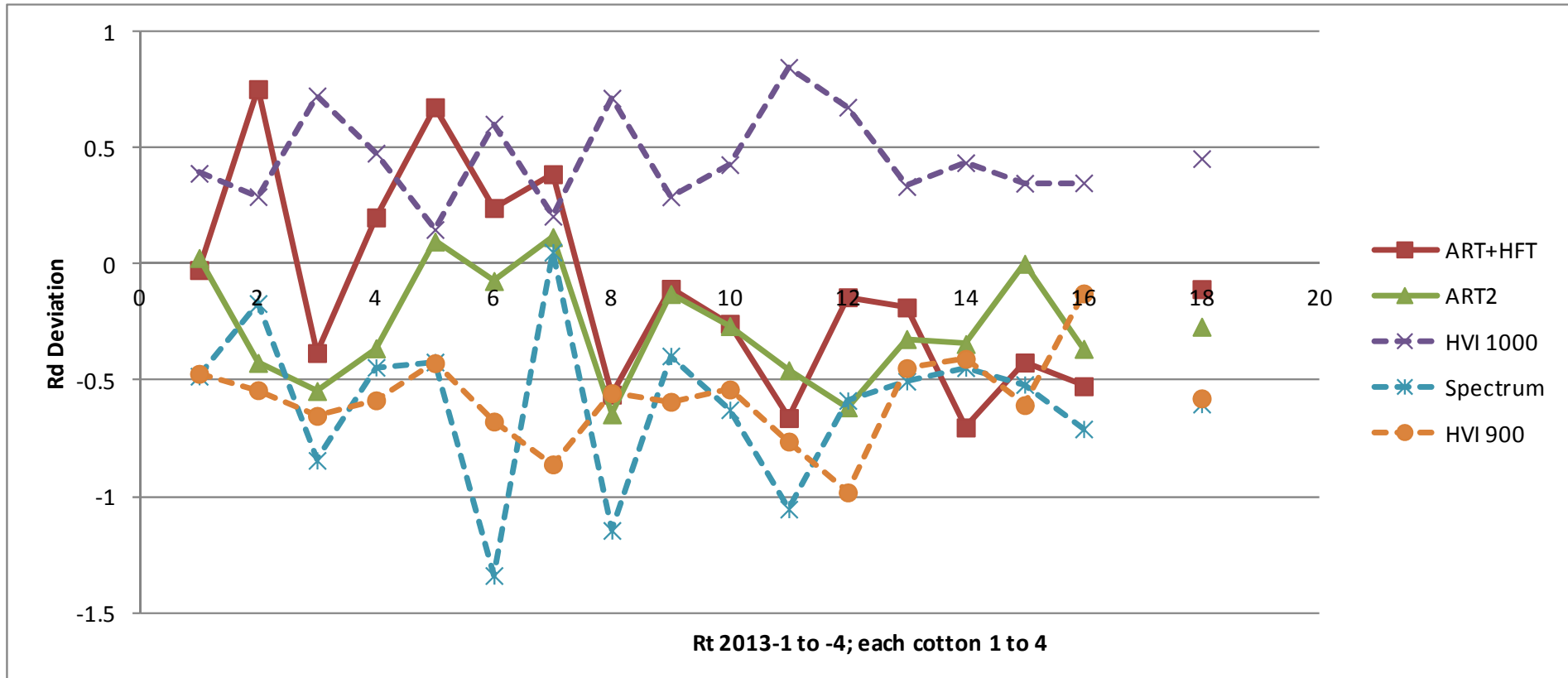
Within Limit Evaluation based on 1 test per sample

% of instruments $\geq 95\%$ within limits						
based on single tests per sample						
RT	Mic	Str	Len: UHML	L-Unif	Col: Rd	Col: +b
Limits	0.2	2	0.03	2	1.5	1
Average	87.0	56.1	71.2	81.0	57.6	84.3
2011-3	90	57	74	84	61	82
2011-4	85	53	61	76	63	81
2012-1	87	52	70	74	61	85
2012-2	90	63	76	79	59	85
2012-3	88	61	78	90	60	80
2013-1	87	54	72	78	50	85
2013-2	86	57	69	81	52	87
2013-3	85	58	70	82	50	84
2013-4	85	50	70	85	63	90

Based on single tests per sample:

→ Including variation between single tests, commercially important

Level Differences Between Instrument Types



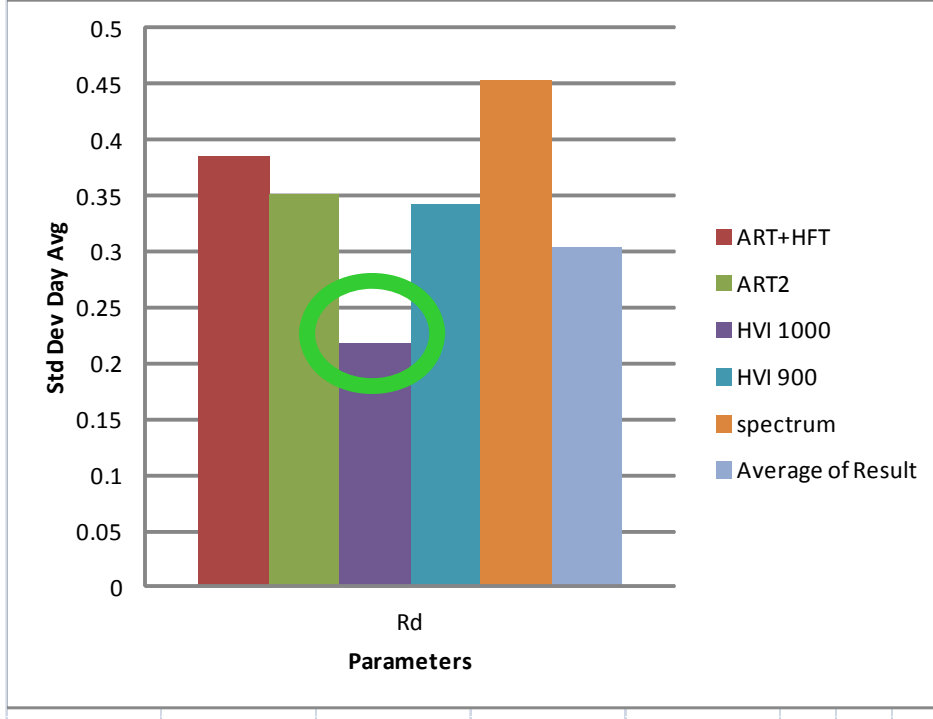
RT 2013-1 to 2013-4

Most obvious level difference: Color Rd

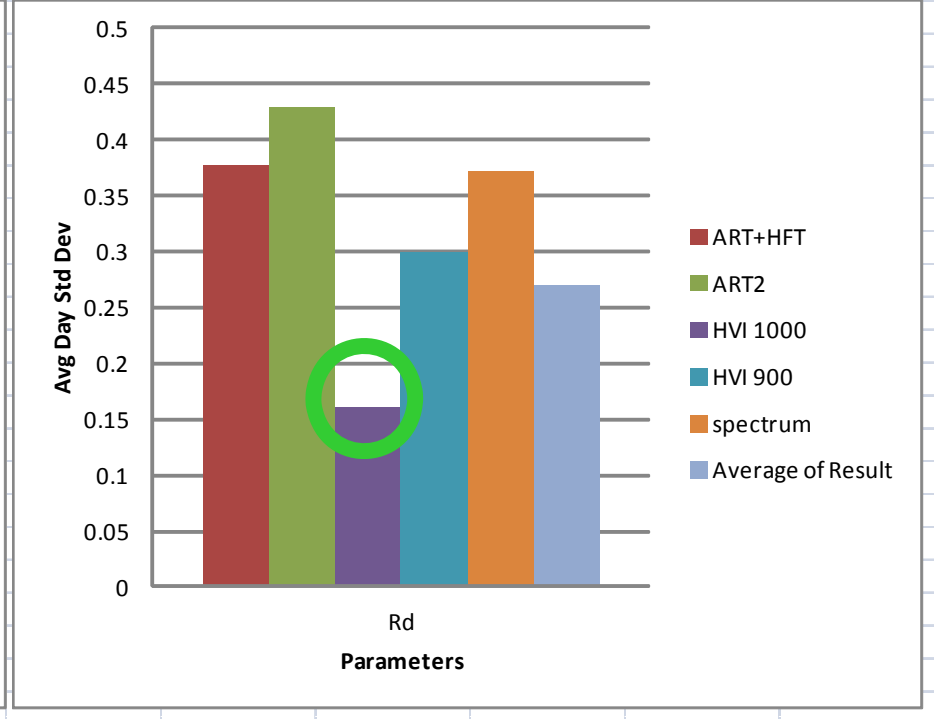
	Av. Deviation	Av. no. of instr.
Premier ART+HFT	-0.10589	14
Premier ART2	-0.26815	9
Uster HVI 1000	0.455653	62
Uster Spectrum	-0.60123	20
Uster HVI 900	-0.57641	21

Within-Instrument Variation of Different Instrument Types

Typical Within-Instrument Variation between Testing Days



Typical Within-Instrument Variation between Single Tests on One Day

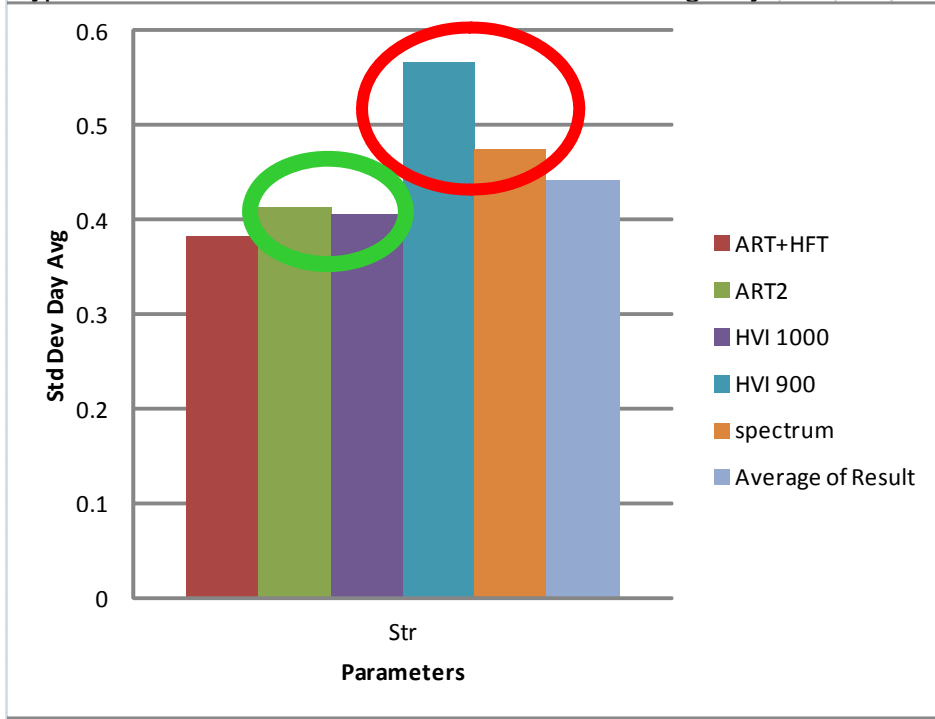


RT 2013-1 to 2013-4

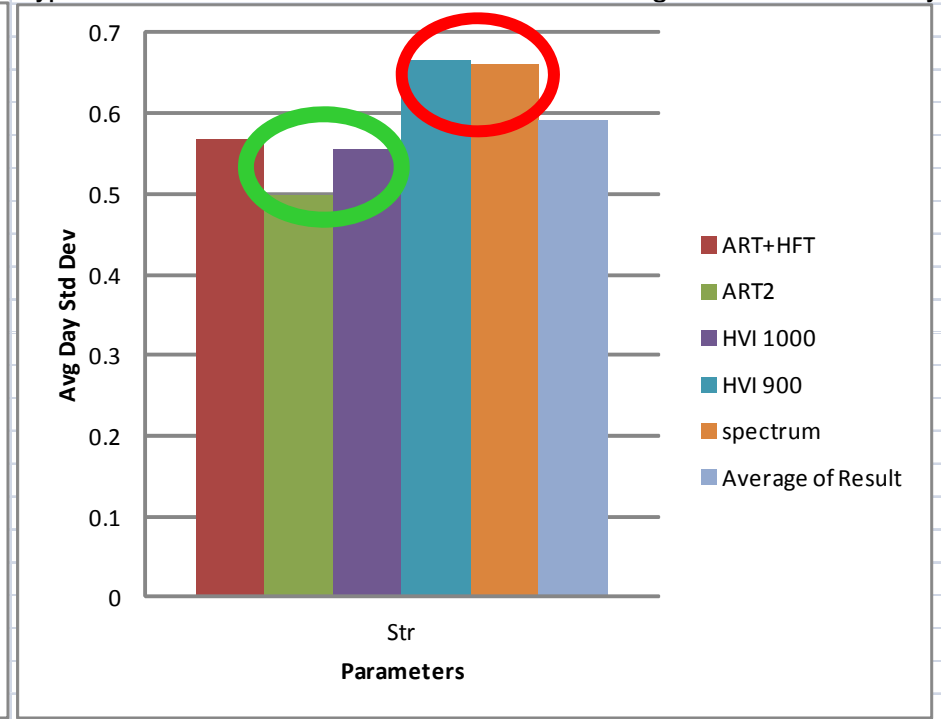
Most obvious difference in within-instrument variation between single tests:
Color Rd (and +b)

Within-Instrument Variation of Different Instrument Types

Typical Within-Instrument Variation between Testing Days



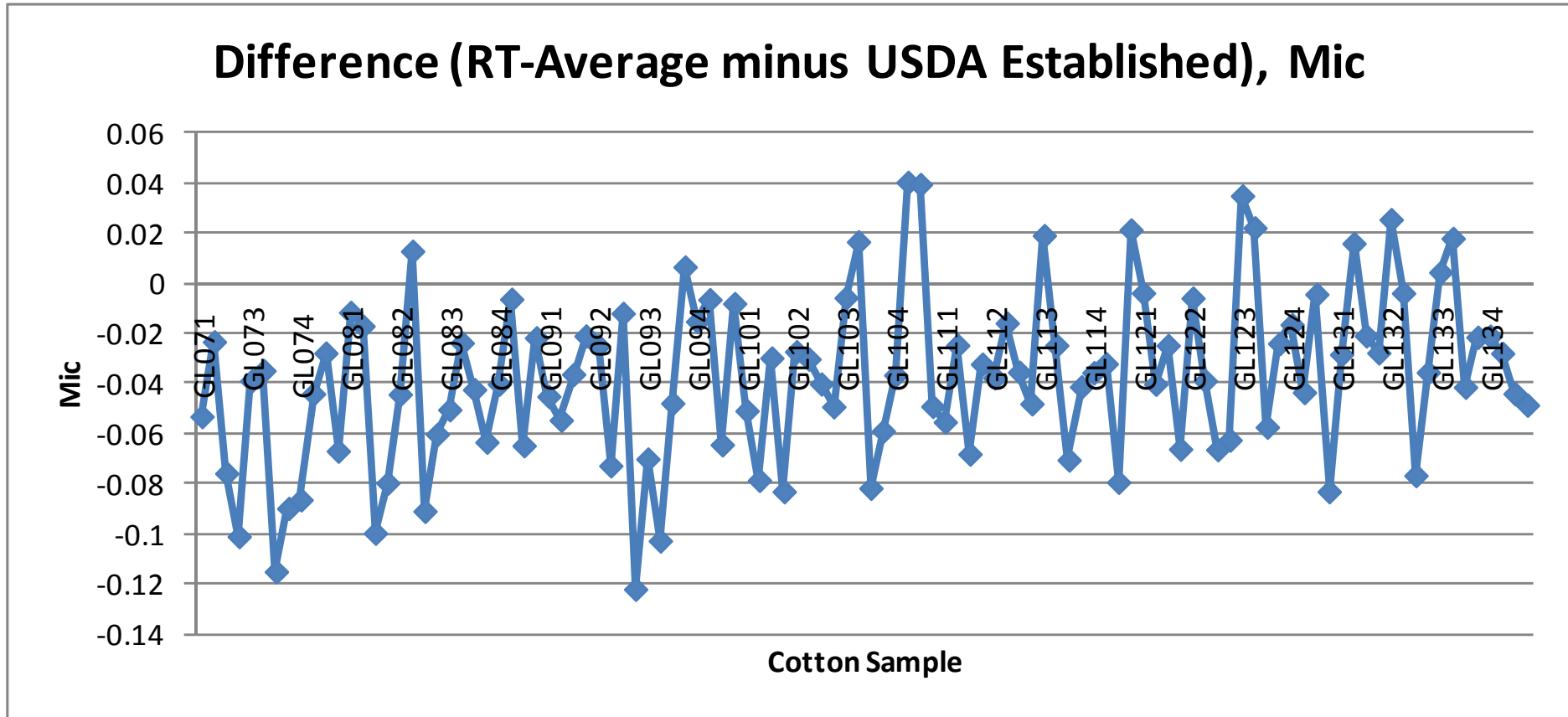
Typical Within-Instrument Variation between Single Tests on One Day



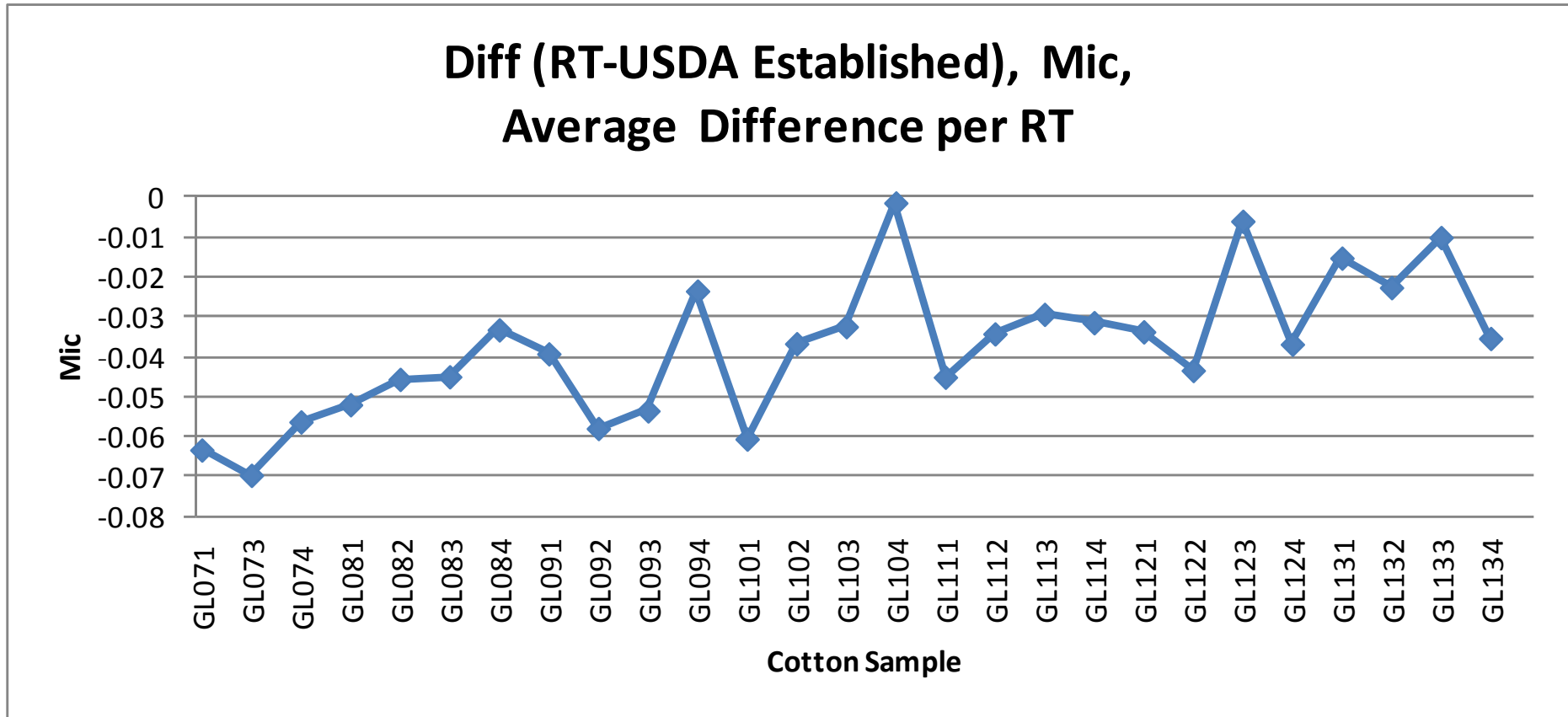
RT 2013-1 to 2013-4

Difference in within-instrument variation between single tests: Strength

Comparison to USDA Established Results: Micronaire



Comparison to USDA Established Results: Micronaire



Influence of Temperature

