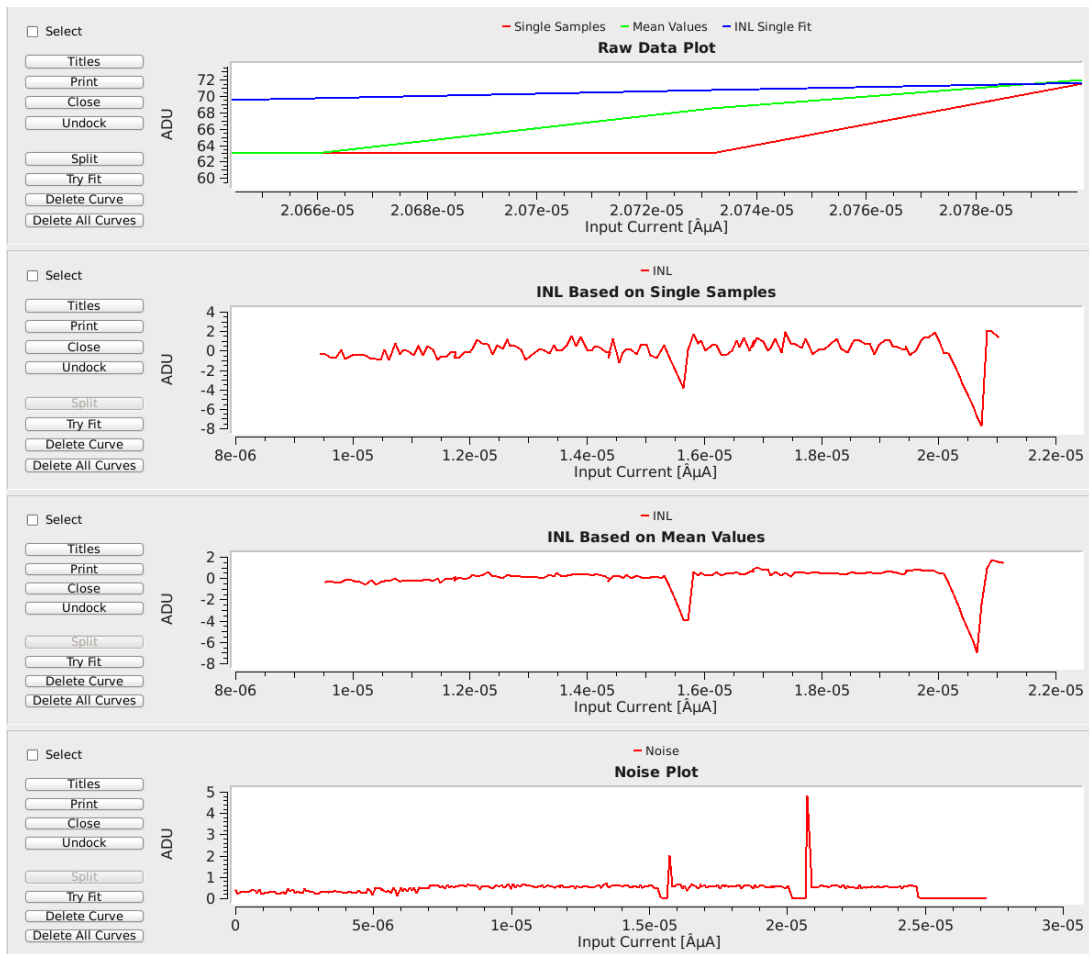




Various DCD Measurements

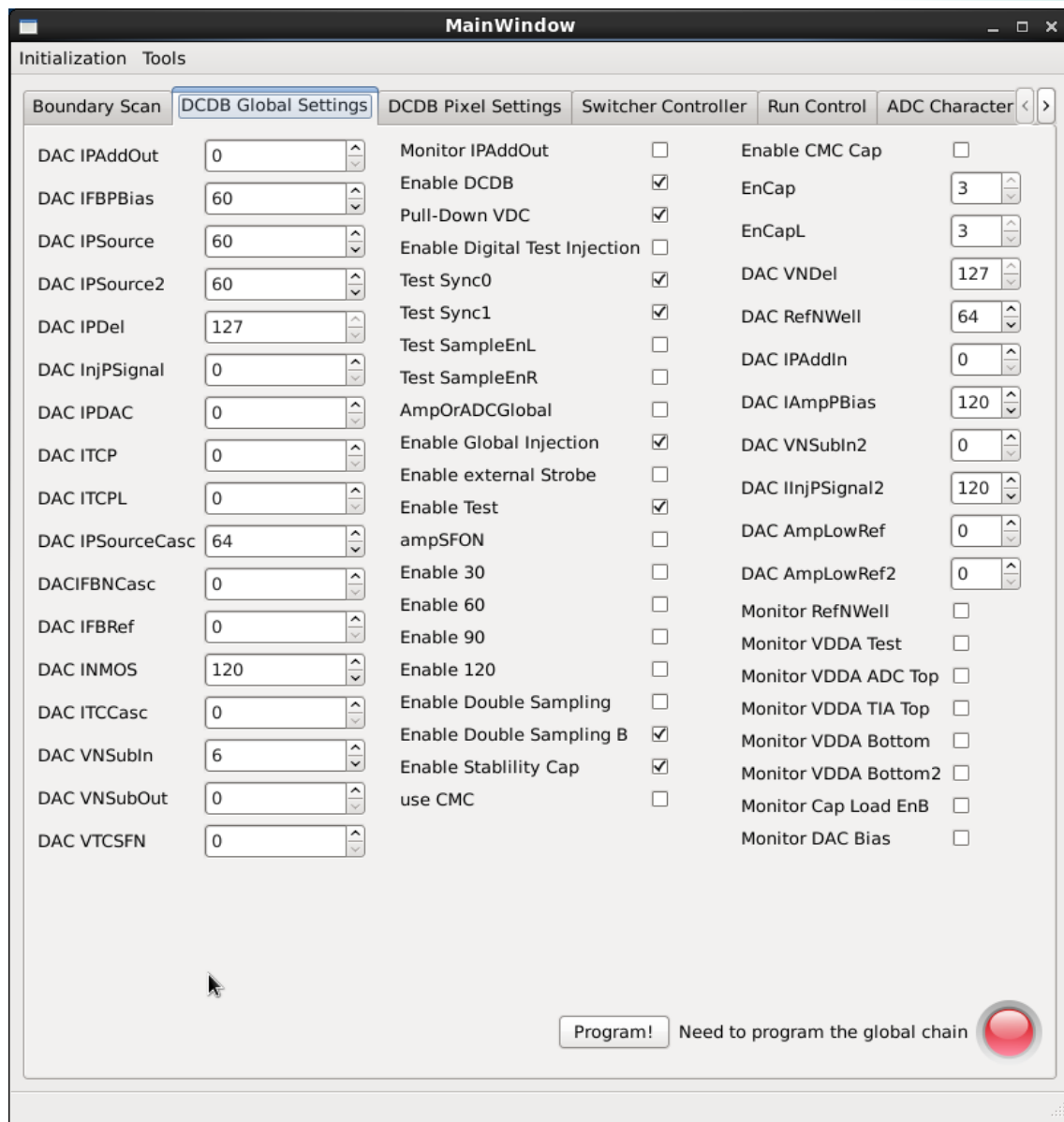


Missing Code at ADU 63



Settings for CMC measurements

- all measurements were done with internal source
- RefIn at 0.9V



The screenshot shows the 'MainWindow' software interface with the 'DCDB Global Settings' tab selected. The interface is divided into several sections: 'Boundary Scan', 'DCDB Global Settings', 'DCDB Pixel Settings', 'Switcher Controller', 'Run Control', and 'ADC Character'. The 'DCDB Global Settings' section contains various DAC and enable/disable options.

Parameter	Value	Parameter	Value	Parameter	Value
DAC IPAddOut	0	Monitor IPAddOut	<input type="checkbox"/>	Enable CMC Cap	<input type="checkbox"/>
DAC IFBPBias	60	Enable DCDB	<input checked="" type="checkbox"/>	EnCap	3
DAC IPSource	60	Pull-Down VDC	<input checked="" type="checkbox"/>	EnCapL	3
DAC IPSource2	60	Enable Digital Test Injection	<input type="checkbox"/>	DAC VNDel	127
DAC IPDel	127	Test Sync0	<input checked="" type="checkbox"/>	DAC RefNWell	64
DAC InjPSignal	0	Test Sync1	<input checked="" type="checkbox"/>	DAC IPAddIn	0
DAC IPDAC	0	Test SampleEnL	<input type="checkbox"/>	DAC IAmpPBias	120
DAC ITCP	0	Test SampleEnR	<input type="checkbox"/>	DAC VNSubIn2	0
DAC ITCPL	0	AmpOrADCGlobal	<input type="checkbox"/>	DAC IInjPSignal2	120
DAC IPSourceCasc	64	Enable Global Injection	<input checked="" type="checkbox"/>	DAC AmpLowRef	0
DACIFBNCasc	0	Enable external Strobe	<input type="checkbox"/>	DAC AmpLowRef2	0
DAC IFBRef	0	Enable Test	<input checked="" type="checkbox"/>	Monitor RefNWell	<input type="checkbox"/>
DAC INMOS	120	ampSFON	<input type="checkbox"/>	Monitor VDDA Test	<input type="checkbox"/>
DAC ITCCasc	0	Enable 30	<input type="checkbox"/>	Monitor VDDA ADC Top	<input type="checkbox"/>
DAC VNSubIn	6	Enable 60	<input type="checkbox"/>	Monitor VDDA TIA Top	<input type="checkbox"/>
DAC VNSubOut	0	Enable 90	<input type="checkbox"/>	Monitor VDDA Bottom	<input type="checkbox"/>
DAC VTCSFN	0	Enable 120	<input type="checkbox"/>	Monitor VDDA Bottom2	<input type="checkbox"/>
		Enable Double Sampling	<input type="checkbox"/>	Monitor Cap Load EnB	<input type="checkbox"/>
		Enable Double Sampling B	<input checked="" type="checkbox"/>	Monitor DAC Bias	<input type="checkbox"/>
		Enable Stability Cap	<input checked="" type="checkbox"/>		
		use CMC	<input type="checkbox"/>		

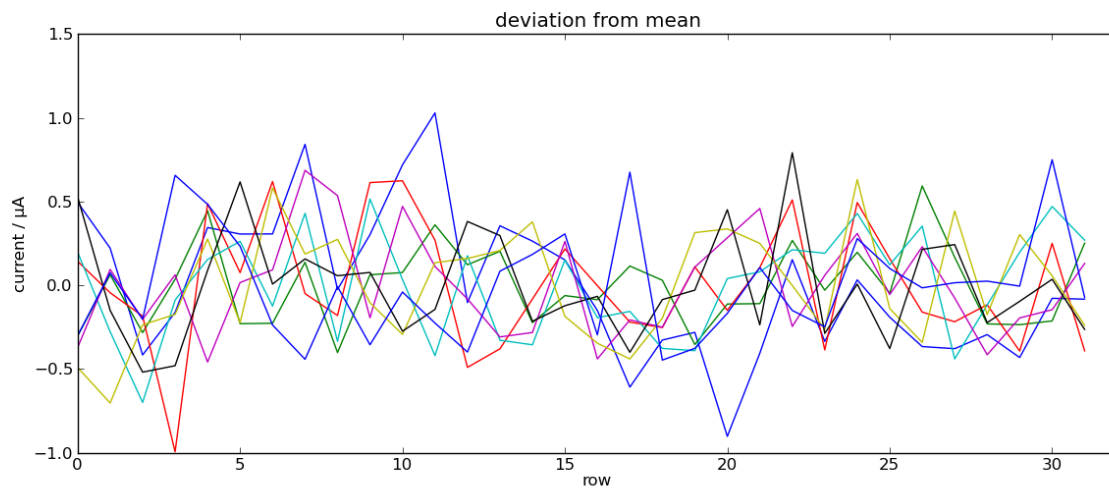
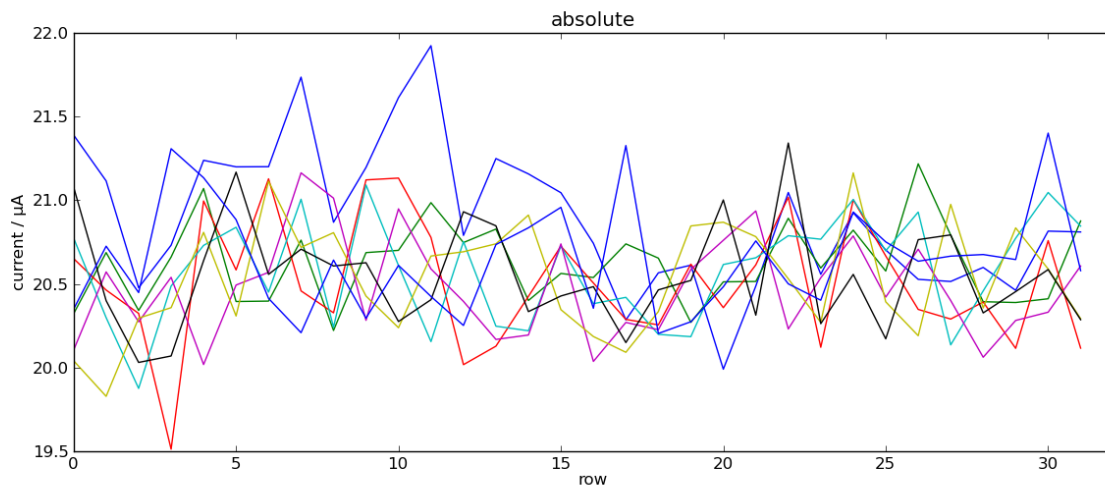
At the bottom of the window, there is a 'Program!' button and a red indicator light with the text 'Need to program the global chain'.

Measurement IPSource 2 - rows

IPSource2 = 60

IPSource = 0

IFBPBias = 0

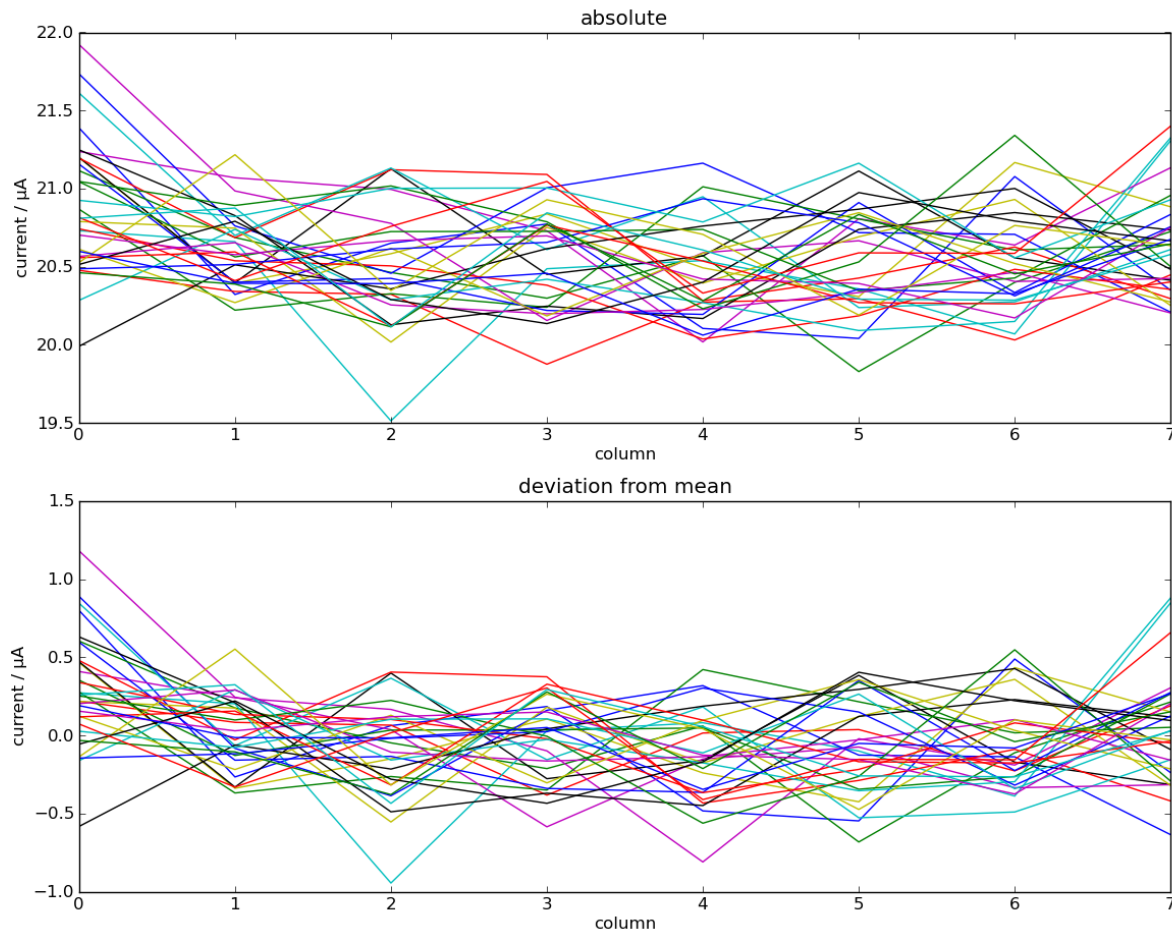


Measurement IPSource 2 - columns

IPSource2 = 60

IPSource = 0

IFBPBias = 0

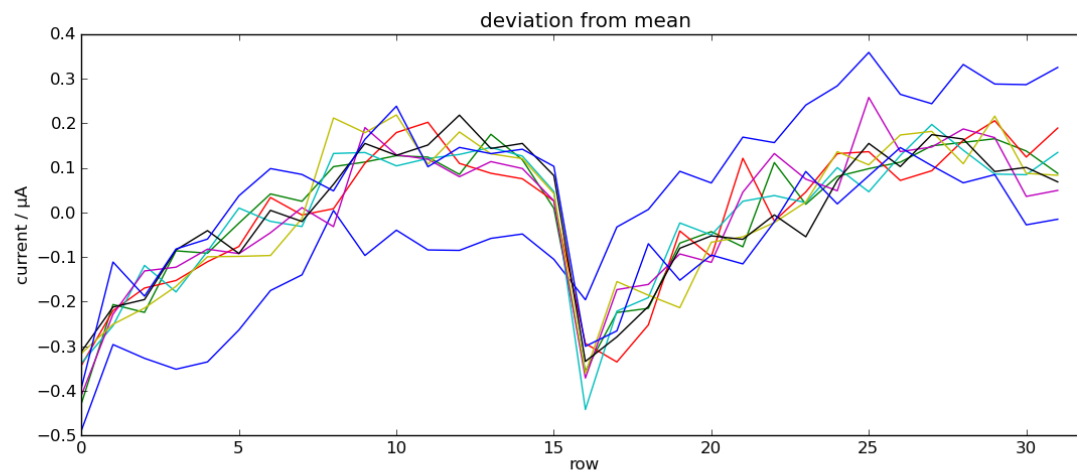
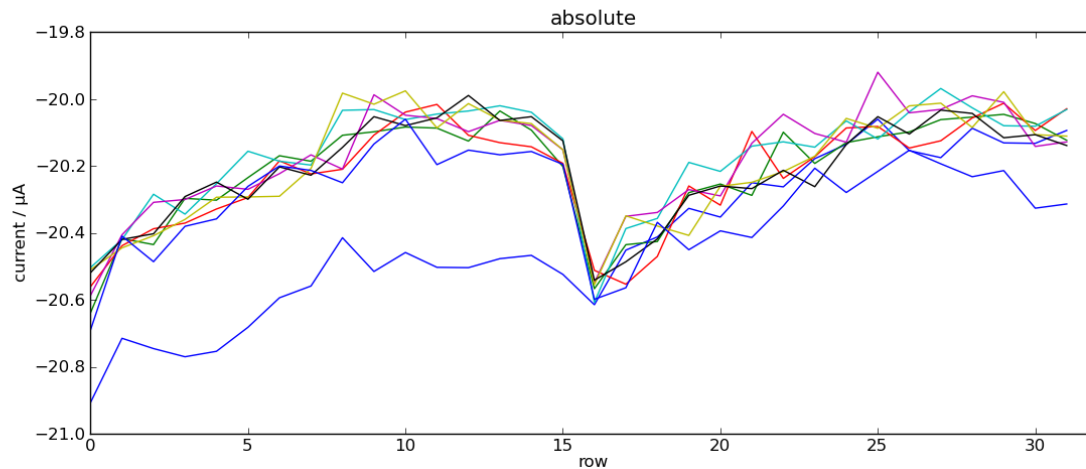


Measurement IPSource2 – IPSource – rows

IPSource2 = 60

IPSource = 60

IFBPBias = 0

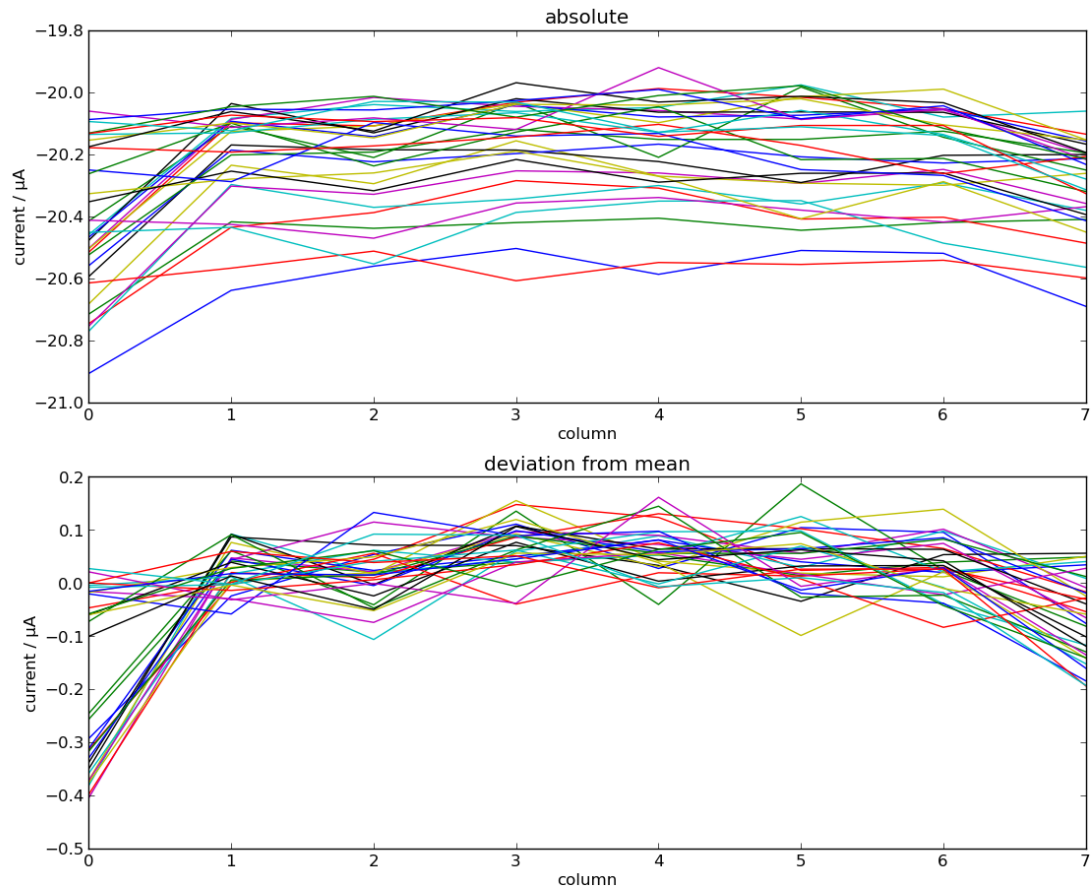


Measurement ISource 2 – ISource - columns

IPSource2 = 60

IPSource = 60

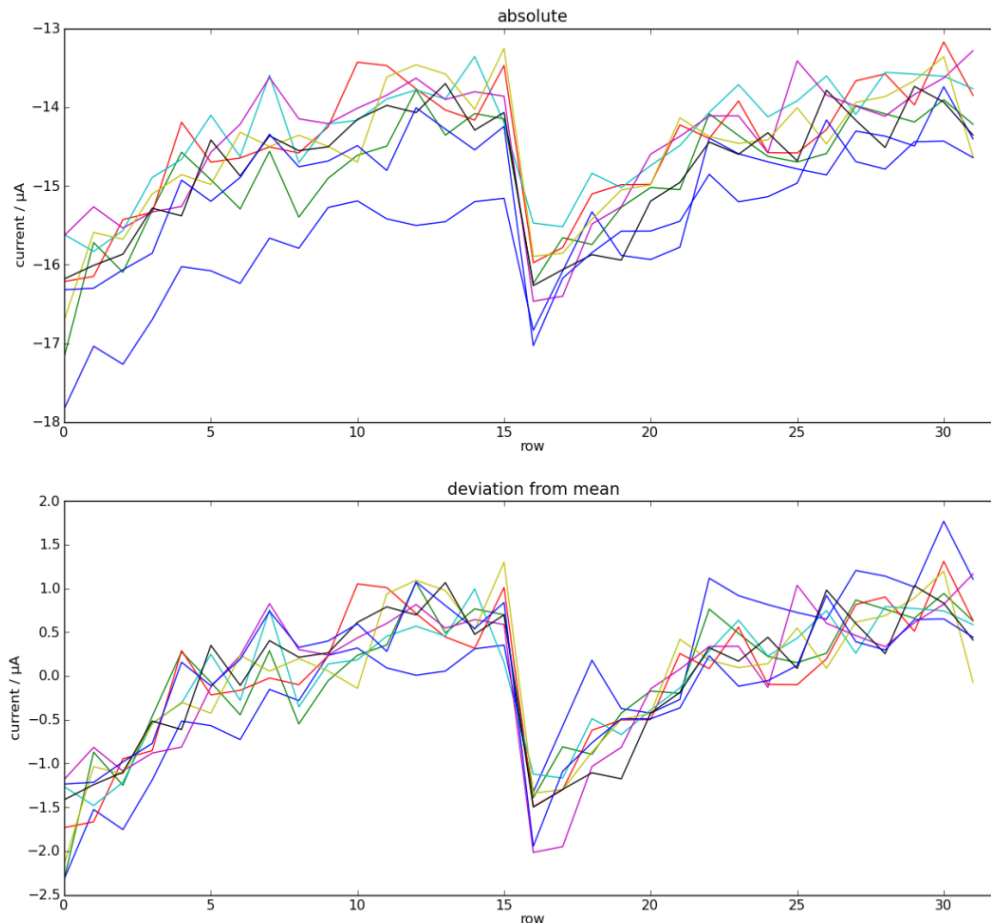
IFBPBias = 0



IPSource2 = 60

IPSource = 60

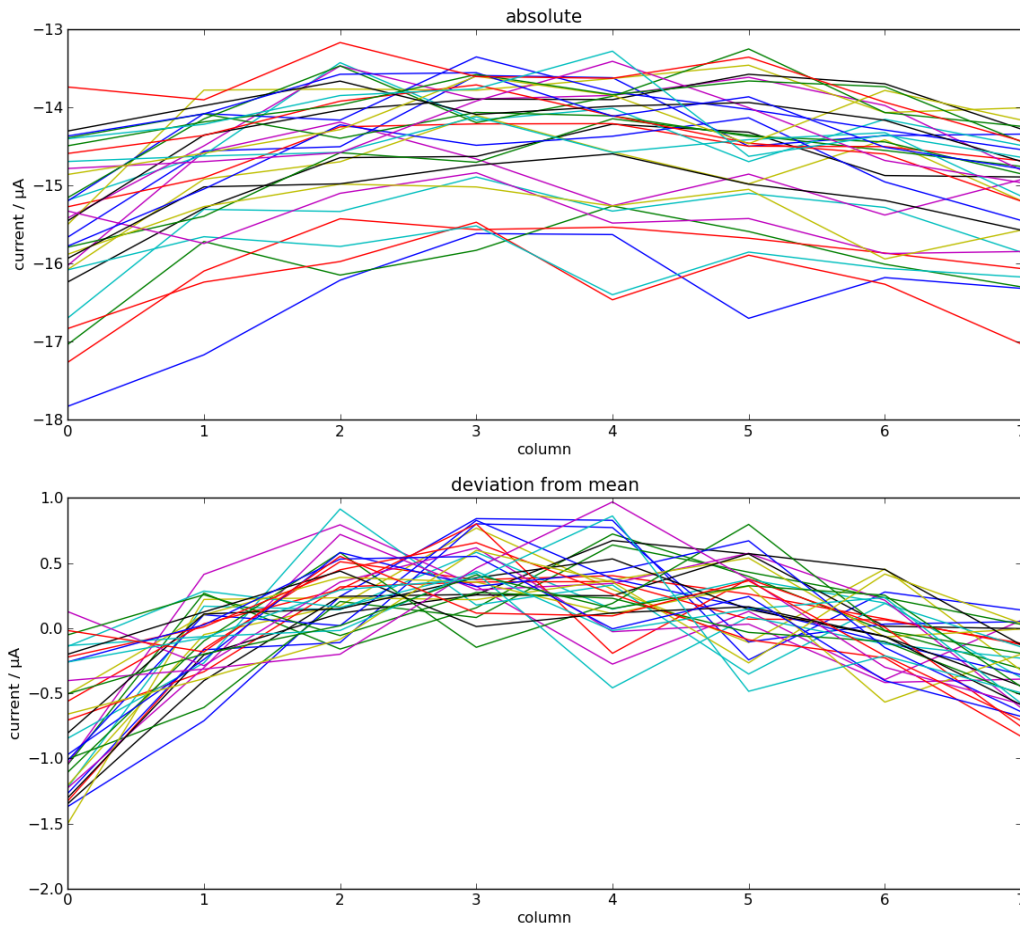
IFBPBias = 60



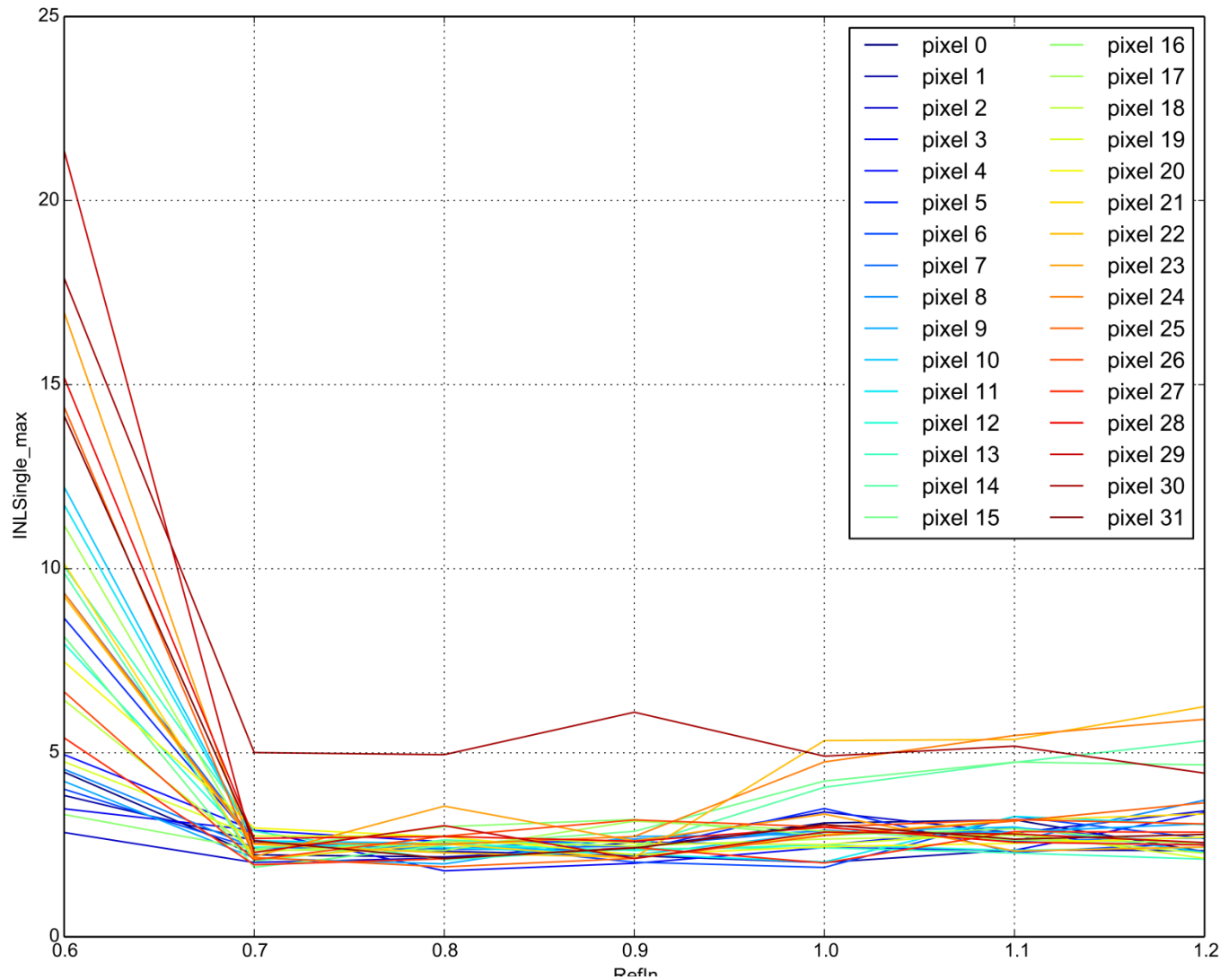
IPSource2 = 60

IPSource = 60

IFBPBias = 60



Comparison of different RefIn with INL max



Comparison of different AmpLow with INL max

