**Example Summary**  
Perform two simultaneous calibrations in two separate channels and with two different cal kits on a ZVA.

**Steps**

On a ZVA:

* Load 'HighBand (No OSHORT1).calkit'
* Load 'LowBand (No OSHORT3).calkit'
* Load Three\_channels.zvx'

On a ZNB:

* Load 'HighBand (No OSHORT1).calkit'
* Load 'LowBand (No OSHORT3).calkit'
* Load 'Three\_channels.znb’
* Send SCPI command ':CORR:COLL:CHAN:MCTY 1'

Then send the following SCPI commands:

Set channel 2 ports   
:SENS2:CORR:COLL:SCON1 'BoeingConnector1',MALE  
:SENS2:CORR:COLL:SCON2 'BoeingConnector1',MALE

Select cal kit, define channel 2 calibration  
:CORR:CKIT:LSEL 'BoeingConnector1','LowBand','No OSHORT3'  
:SENS2:CORR:COLL:METH:DEF 'Channel 1 Cal',TOSM,1,2

Set channel 3 ports  
:SENS3:CORR:COLL:SCON1 'BoeingConnector2',MALE  
:SENS3:CORR:COLL:SCON2 'BoeingConnector2',MALE

Select cal kit, define channel 3 calibration  
:CORR:CKIT:LSEL 'BoeingConnector2','HighBand','No OSHORT1'  
:SENS3:CORR:COLL:METH:DEF 'Channel 2 Cal',TOSM,1,2

Perform port 1 sweeps  
:SENS2:CORR:COLL:SEL SHOR,1  
:SENS3:CORR:COLL:SEL SHOR,1  
:SENS2:CORR:COLL:SEL OSHORT1,1  
:SENS2:CORR:COLL:SEL OSHORT2,1  
:SENS3:CORR:COLL:SEL OSHORT2,1  
:SENS3:CORR:COLL:SEL OSHORT3,1

Perform port 2 sweeps  
:SENS2:CORR:COLL:SEL SHOR,2  
:SENS3:CORR:COLL:SEL SHOR,2  
:SENS2:CORR:COLL:SEL OSHORT1,2  
:SENS2:CORR:COLL:SEL OSHORT2,2  
:SENS3:CORR:COLL:SEL OSHORT2,2  
:SENS3:CORR:COLL:SEL OSHORT3,2

Perform thru sweeps  
:SENS2:CORR:COLL:SEL THR,1,2  
:SENS3:CORR:COLL:SEL THR,1,2

Try to Apply sweeps  
:SENS2:CORR:COLL:SAVE:SEL  
:SENS3:CORR:COLL:SAVE:SEL

The last two command should cause an error to occur with a complaint that not all the calibration sweeps were performed. This is because channel 1 is not being calibrated. Apparently the firmware expects you to calibrate all existing channels.

Now load the ‘Two\_channels.zxx’ file and try again with only two channels

If using a ZNB, send the command ‘:CORR:COLL:CHAN:MCTY 1’

Then send the following SCPI commands:

Set channel 1 ports   
:SENS1:CORR:COLL:SCON1 'BoeingConnector1',MALE  
:SENS1:CORR:COLL:SCON2 'BoeingConnector1',MALE

Select cal kit, define channel 1 calibration  
:CORR:CKIT:LSEL 'BoeingConnector1','LowBand','No OSHORT3'  
:SENS1:CORR:COLL:METH:DEF 'Channel 1 Cal',TOSM,1,2

Set channel 2 ports  
:SENS2:CORR:COLL:SCON1 'BoeingConnector2',MALE  
:SENS2:CORR:COLL:SCON2 'BoeingConnector2',MALE

Select cal kit, define channel 2 calibration  
:CORR:CKIT:LSEL 'BoeingConnector2','HighBand','No OSHORT1'  
:SENS2:CORR:COLL:METH:DEF 'Channel 2 Cal',TOSM,1,2

Perform port 1 sweeps  
:SENS1:CORR:COLL:SEL SHOR,1  
:SENS2:CORR:COLL:SEL SHOR,1  
:SENS1:CORR:COLL:SEL OSHORT1,1  
:SENS1:CORR:COLL:SEL OSHORT2,1  
:SENS2:CORR:COLL:SEL OSHORT2,1  
:SENS2:CORR:COLL:SEL OSHORT3,1

Perform port 2 sweeps  
:SENS1:CORR:COLL:SEL SHOR,2  
:SENS2:CORR:COLL:SEL SHOR,2  
:SENS1:CORR:COLL:SEL OSHORT1,2  
:SENS1:CORR:COLL:SEL OSHORT2,2  
:SENS2:CORR:COLL:SEL OSHORT2,2  
:SENS2:CORR:COLL:SEL OSHORT3,2

Perform thru sweeps  
:SENS1:CORR:COLL:SEL THR,1,2  
:SENS2:CORR:COLL:SEL THR,1,2

Try to Apply sweeps  
:SENS1:CORR:COLL:SAVE:SEL  
:SENS2:CORR:COLL:SAVE:SEL

These last two commands may fail because the “Cal data is not plausible”. This is because we are not actually performing the sweeps. The important thing to note is that the firmware did accept that all the calibration sweeps were performed.