

SEQUENCE 12.7.2.3.1.  
CheckDTR2Behaviour\_xy( nrPrim )

SEND TWICE  
BROADCAST  
RESET

Reset DUT

wait  
(300 ms + Response time)

i := 0; j := 0

SEND  
SPECIAL COMMAND  
DTR2( j )

Make sure xy-Coordinate Primaries are all set  
to a value other than we are going to set with  
invalid DTR2

EXECUTE SEQUENCE  
Set16bitValue( 255 - i )  
expX[j] = val

8 SEND TO DEVICE TYPE  
BROADCAST  
SET TEMPORARY x-  
COORDINATE

EXECUTE SEQUENCE  
Set16bitValue( i )  
expY[j] = val

8 SEND TO DEVICE TYPE  
BROADCAST  
SET TEMPORARY y-  
COORDINATE

8 SEND TWICE TO DEVICE TYPE  
BROADCAST  
STORE xy-COORDINATE PRIMARY N

j := j + 1

No

j > nrPrim ?

Yes

SEND  
SPECIAL COMMAND  
DTR2( j )

See if storing out of range DTR2 triggers errors

EXECUTE SEQUENCE  
Set16bitValue( i )

8 SEND TO DEVICE TYPE  
BROADCAST  
SET TEMPORARY x-  
COORDINATE

EXECUTE SEQUENCE  
Set16bitValue( 255 - i )

8 SEND TO DEVICE TYPE  
BROADCAST  
SET TEMPORARY y-  
COORDINATE

8 SEND TWICE TO DEVICE TYPE  
BROADCAST  
STORE xy-COORDINATE PRIMARY N

i := 128

i := 255

k := 0

Read back xy Coordinate values

SEND  
BROADCAST  
DTR ( 64 + ( k \* 3 ) )

EXECUTE SEQUENCE  
Get16bitColourValue()  
val

Read back x-Coordinate for Primary N

val = expX[k] ?

No

Error 72311, k, expX  
"Out of range DTR2 value  
triggered change in stored x  
Coordinate Primary N!"

Yes

SEND  
BROADCAST  
DTR ( 65 + ( k \* 3 ) )

8 SEND TO DEVICE TYPE  
BROADCAST  
QUERY COLOUR VALUE

Read back y-Coordinate for Primary N

EXECUTE SEQUENCE  
Get16bitValue()  
val

val = expY[k] ?

No

Error 72312, k, expX  
"Out of range DTR2 value  
triggered change in stored y  
Coordinate Primary N!"

Yes

k := k + 1

k > nrPrim ?

No

Yes

j := j + 1

j > 255 ?

No

Yes

j := 0

i ?

0

otherwise

Test  
done