

# NanoVNA Firmware Regression Test Report

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Report Name:C:\projects\NANOVNA\reports\DrNefario\report.html

3/20/2021 12:03:58 PM

This test report was automatically created by the NanoVNA Test System.

The test setup utilizes a standard thru connector attached between channel 0 & 1 of the NanoVNA.

This software is currently under development.

## Firmware Build Information:

NanoVNA

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Licensed under GPL. See: <https://github.com/ttrftech/NanoVNA>

Version: 0.8.0

Build Time: Jun 19 2020 - 23:16:02

Kernel: 4.0.0

Compiler: GCC 8.2.1 20181213 (release) [gcc-8-branch revision 267074]

Architecture: ARMv6-M Core Variant: Cortex-M0

Port Info: Preemption through NMI

Platform: STM32F072xB Entry Level Medium Density devices

## Commands Supported:

help

Commands: version reset freq offset dac saveconfig clearconfig data frequencies bandwidth port stat gain power sample scan sweep test touchcal touchtest pause resume cal save recall trace marker edelay capture vbat vbat\_offset transform threshold help info color

ch>

## 0.050KHz to 1.5GHz Range Test

PASSED

## 10KHz Range Test

FAILED

Lower Limit: 0.050000

## 750MHz Center / 1500MHz Span Test

PASSED

## Pause Command Test

PASSED

## Resume Command Test

PASSED

## Reverse Sweep Test

PASSED

### Command Response

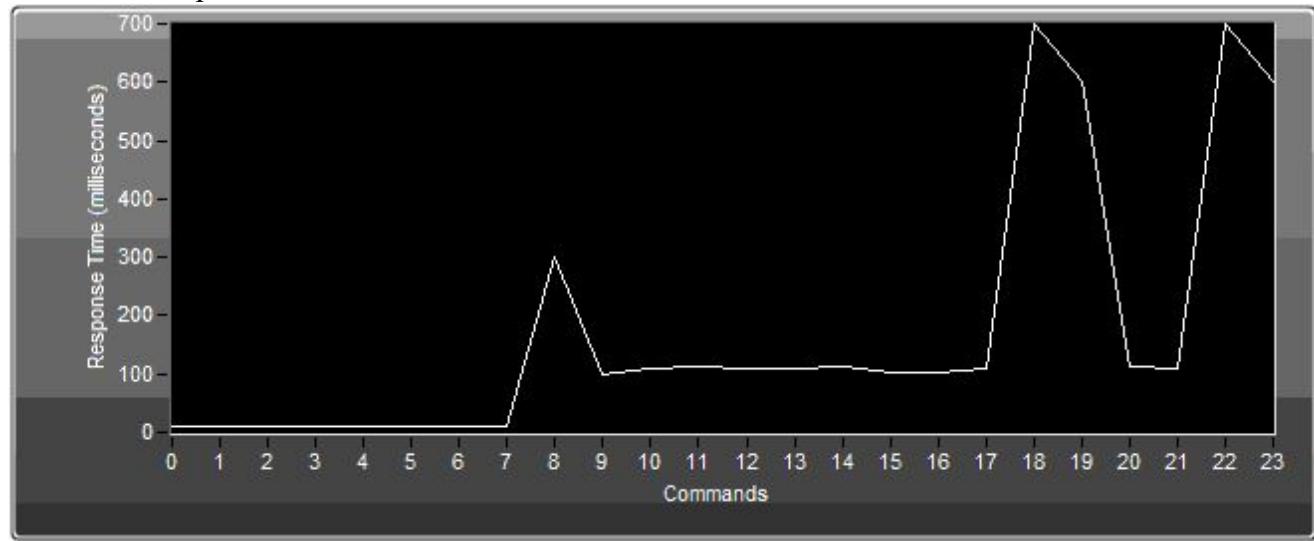
PASSED

Timeouts: 0

Maximum: 700

Minimum: 9

Data Rate bits per second: 99475.504323



## Stacked Commands Test

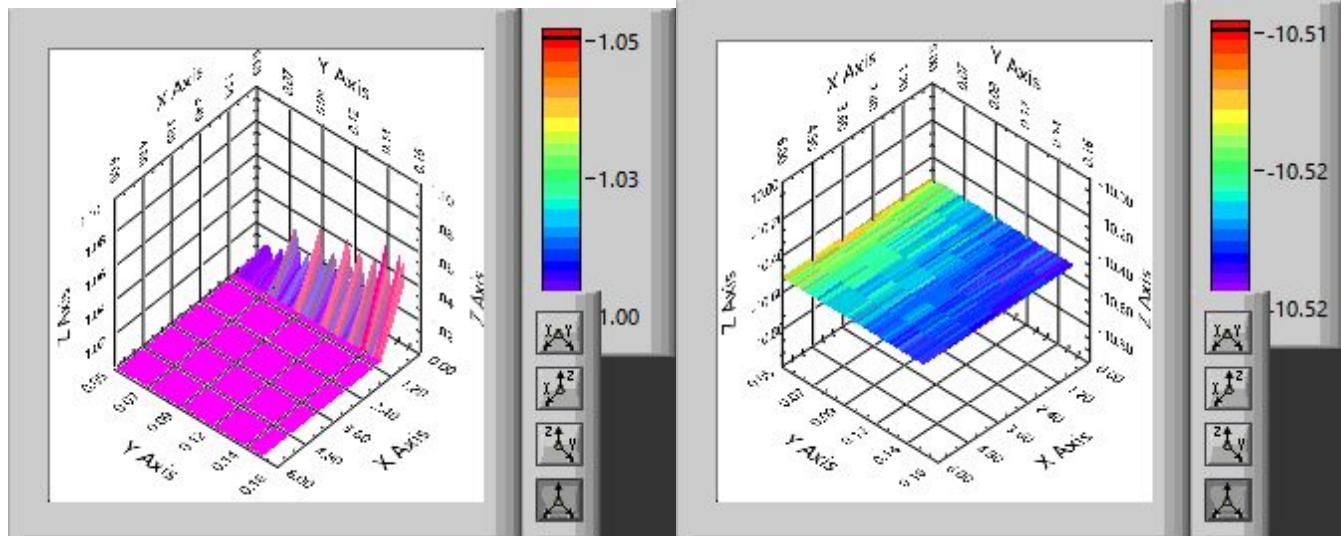
PASSED

Number of Responses: 1

Fmin(MHz): 0.050000

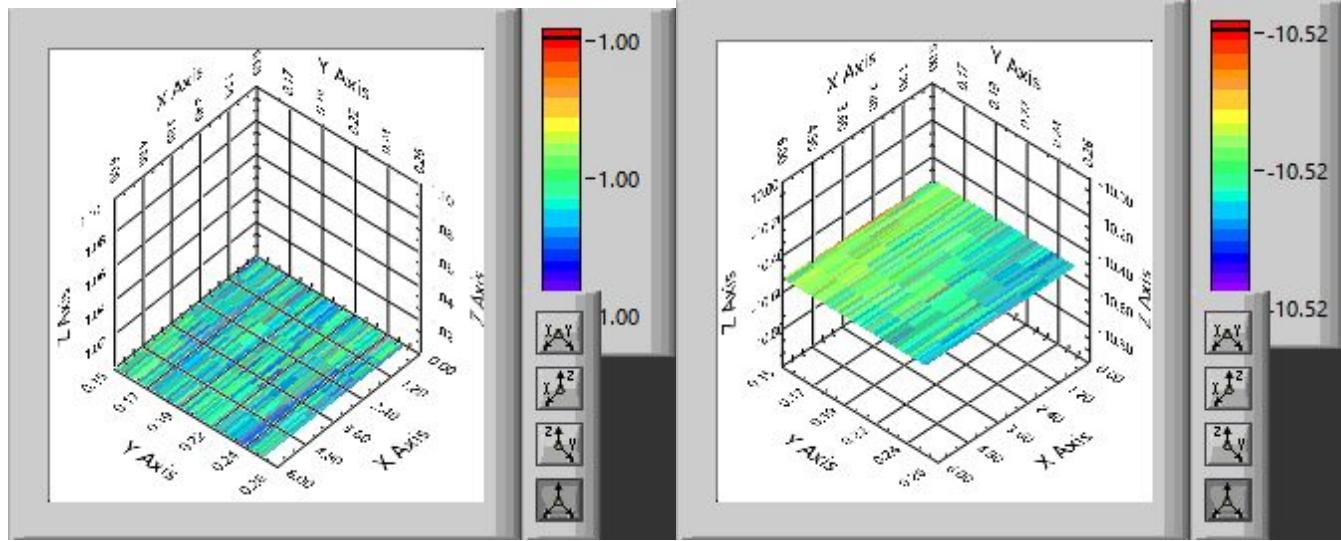
Fmax(MHz): 0.150000

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
1 0.051972 -0.000097 0.003212 0.009412 0.004052 -0.003411 0.000006 0.000934



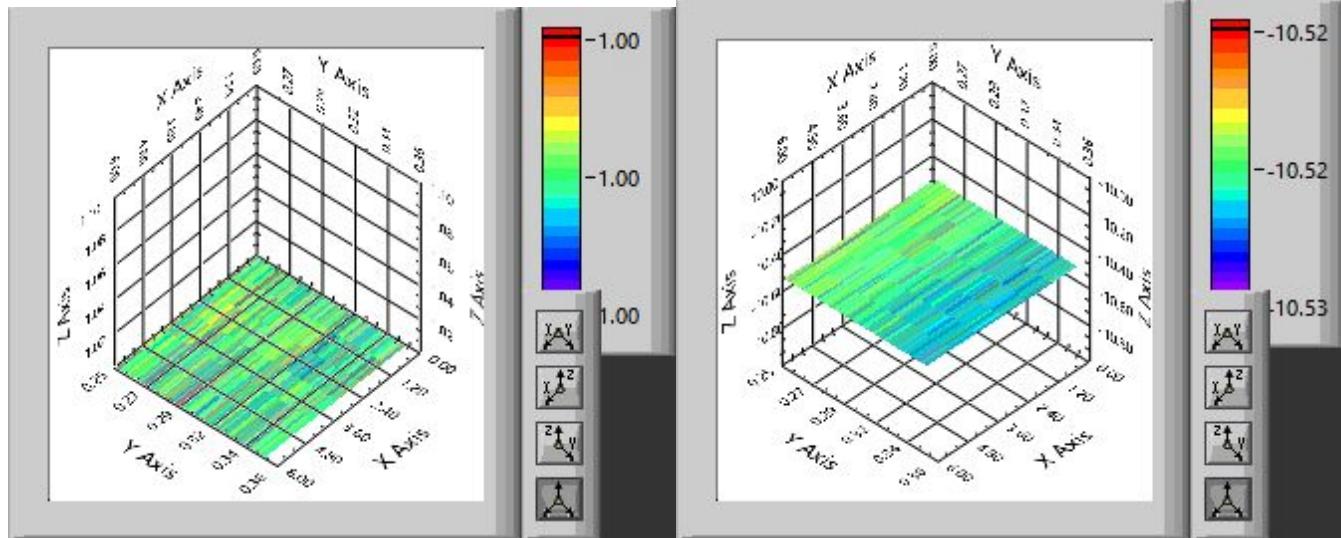
Fmin(MHz): 0.150990  
 Fmax(MHz): 0.250990

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
 2 0.000104 -0.000097 -0.000002 0.000029 0.003607 -0.002799 0.000088 0.000898



Fmin(MHz): 0.251980  
 Fmax(MHz): 0.351980

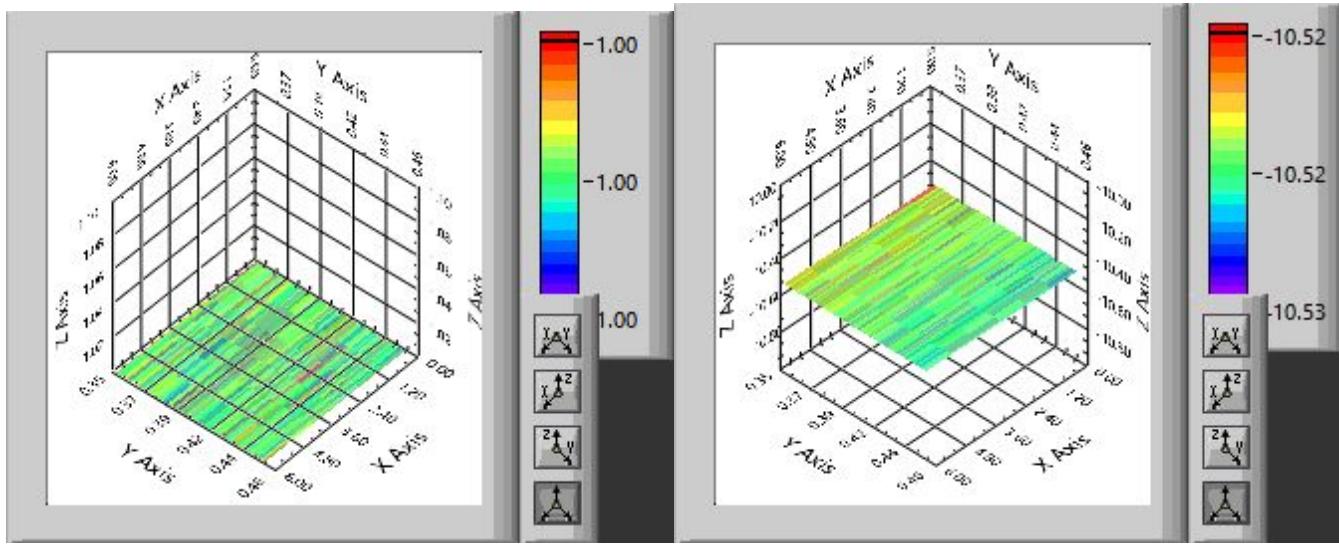
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
 3 0.000073 -0.000084 -0.000001 0.000026 0.003711 -0.003555 -0.000059 0.001025



Fmin(MHz): 0.352970  
 Fmax(MHz): 0.452970

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev

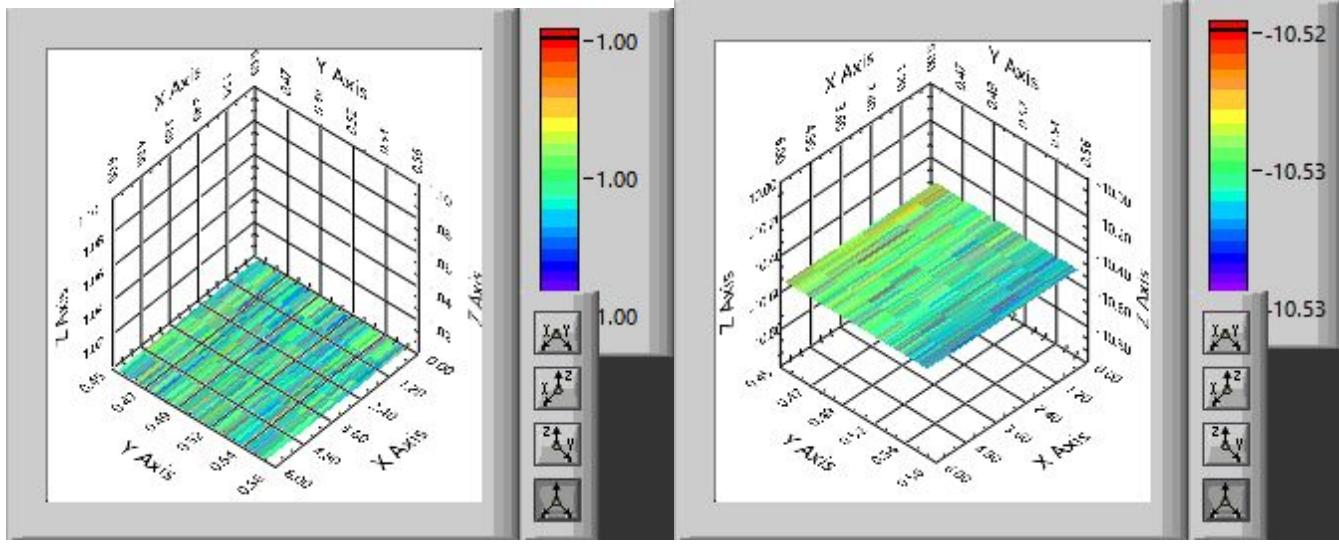
4 0.000077 -0.000096 0.000002 0.000024 0.003042 -0.003011 0.000088 0.000872



Fmin(MHz): 0.453960

Fmax(MHz): 0.553960

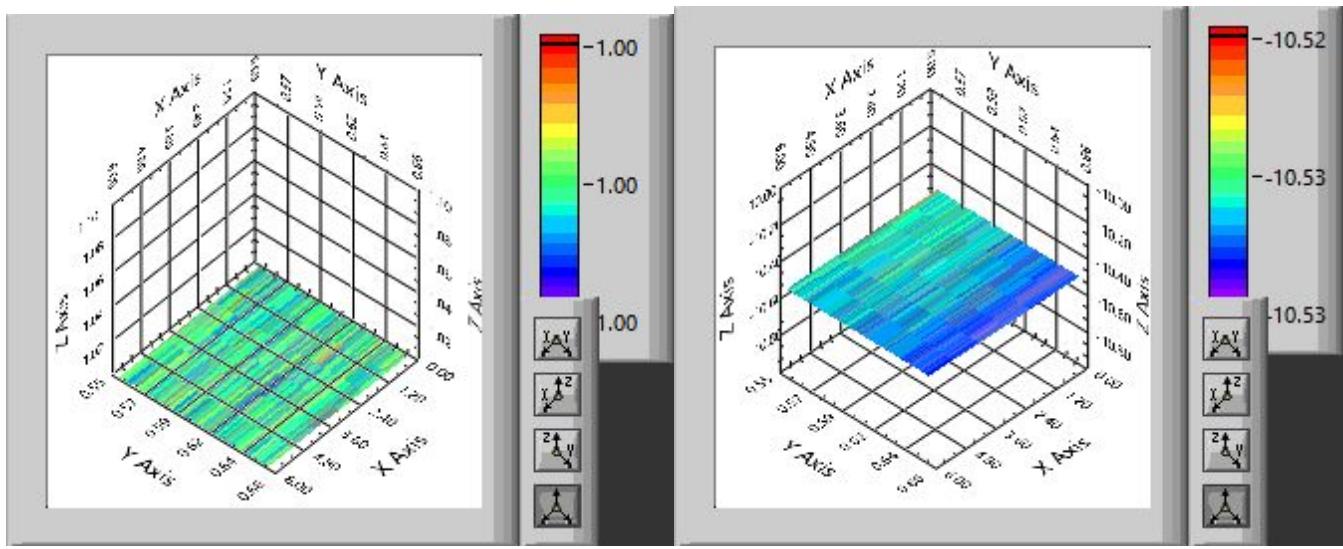
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
5 0.000068 -0.000089 0.000001 0.000025 0.002203 -0.002688 -0.000076 0.000857



Fmin(MHz): 0.554950

Fmax(MHz): 0.654950

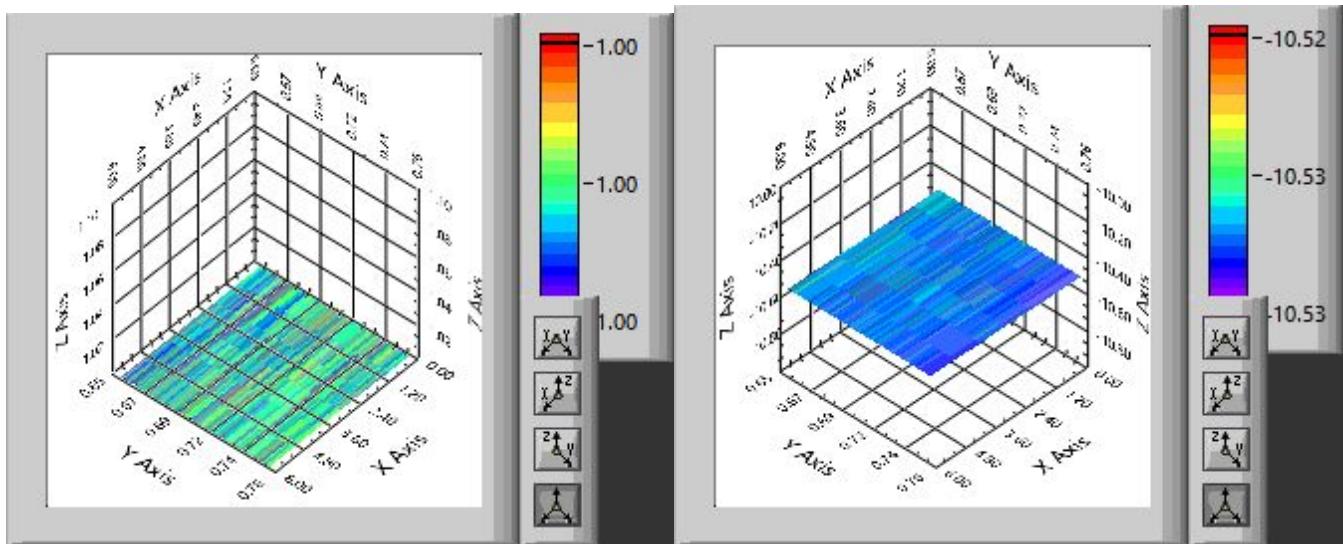
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
6 0.000084 -0.000076 0.000000 0.000026 0.004218 -0.002068 0.000078 0.000796



Fmin(MHz): 0.655941

Fmax(MHz): 0.755941

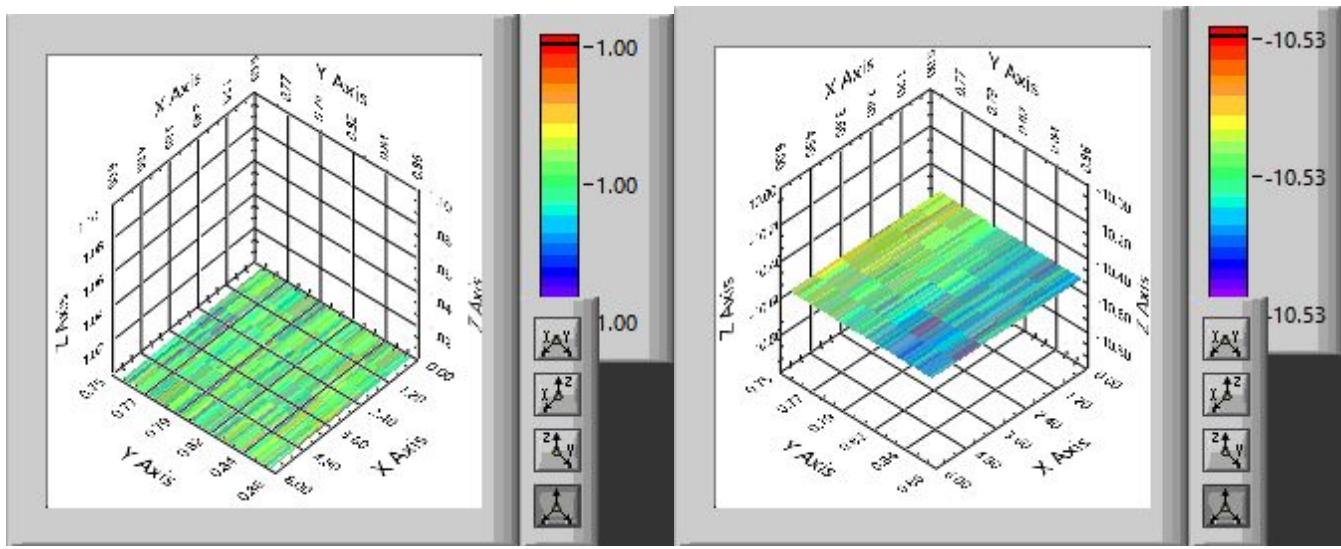
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
7 0.000066 -0.000081 -0.000001 0.000025 0.003182 -0.002145 0.000046 0.000848



Fmin(MHz): 0.756931

Fmax(MHz): 0.856931

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
8 0.000080 -0.000086 -0.000003 0.000028 0.002387 -0.002656 0.000111 0.000905

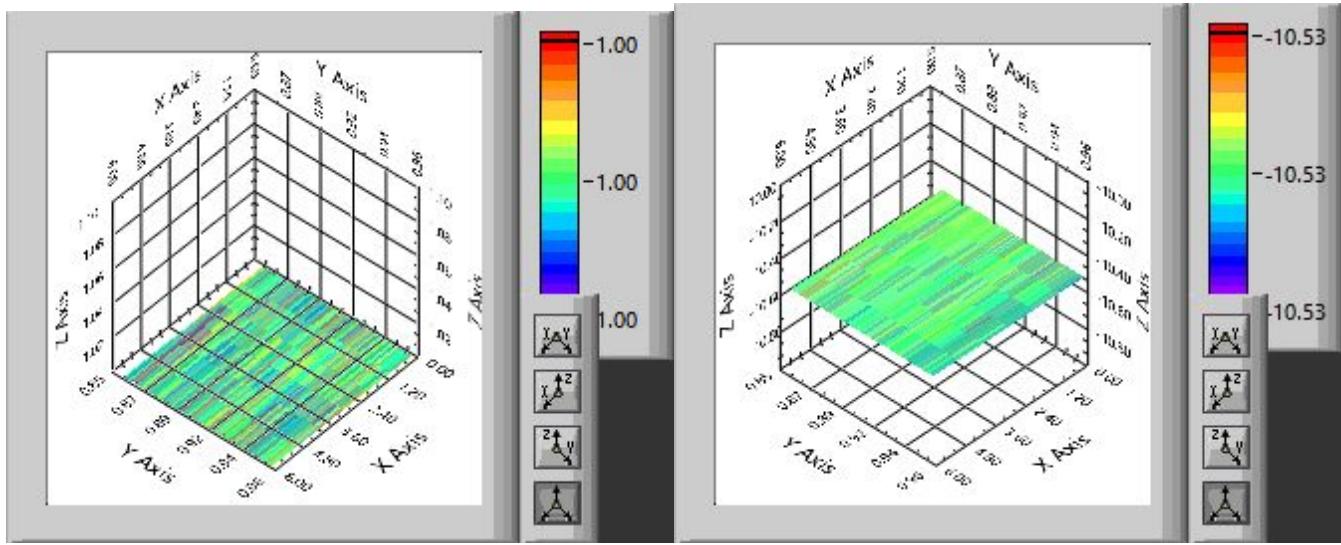


Fmin(MHz): 0.857921

Fmax(MHz): 0.957921

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev

9 0.000091 -0.000102 -0.000001 0.000026 0.002823 -0.003132 0.000117 0.000960

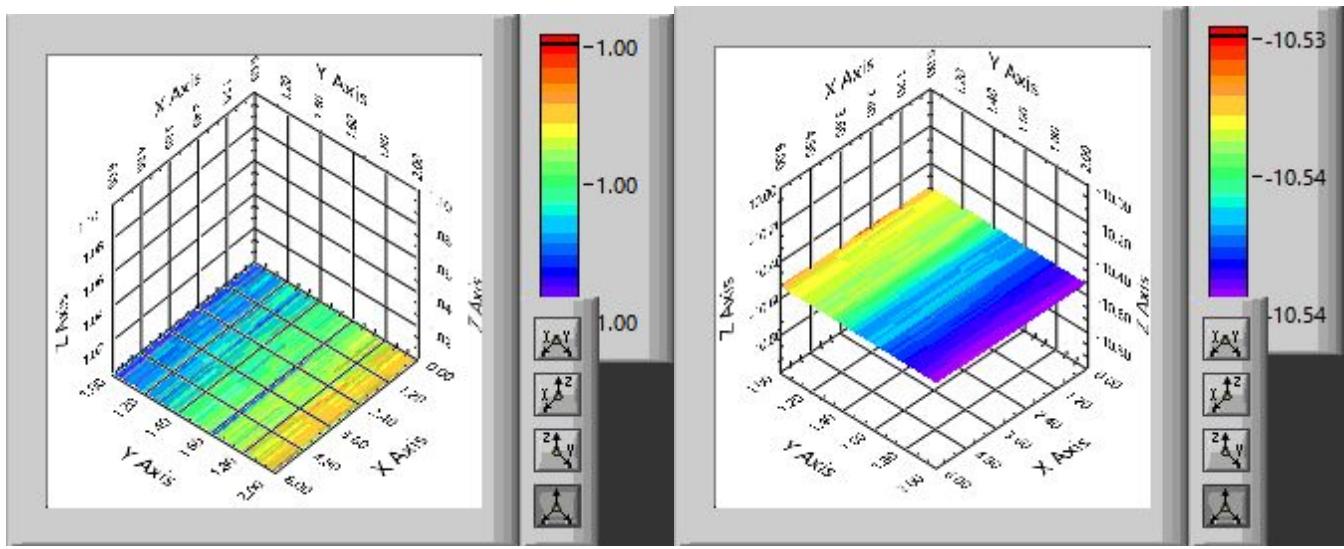


Fmin(MHz): 1.000000

Fmax(MHz): 2.000000

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev

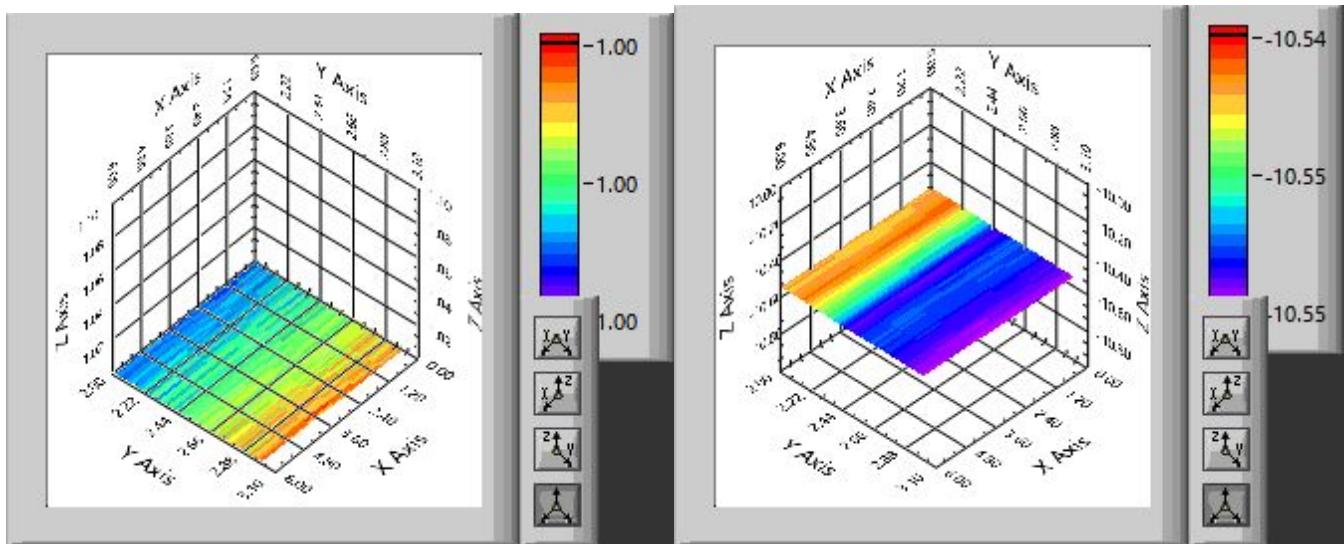
10 0.000094 -0.000104 -0.000002 0.000027 0.002158 -0.002873 0.000037 0.000532



Fmin(MHz): 2.009901

Fmax(MHz): 3.009901

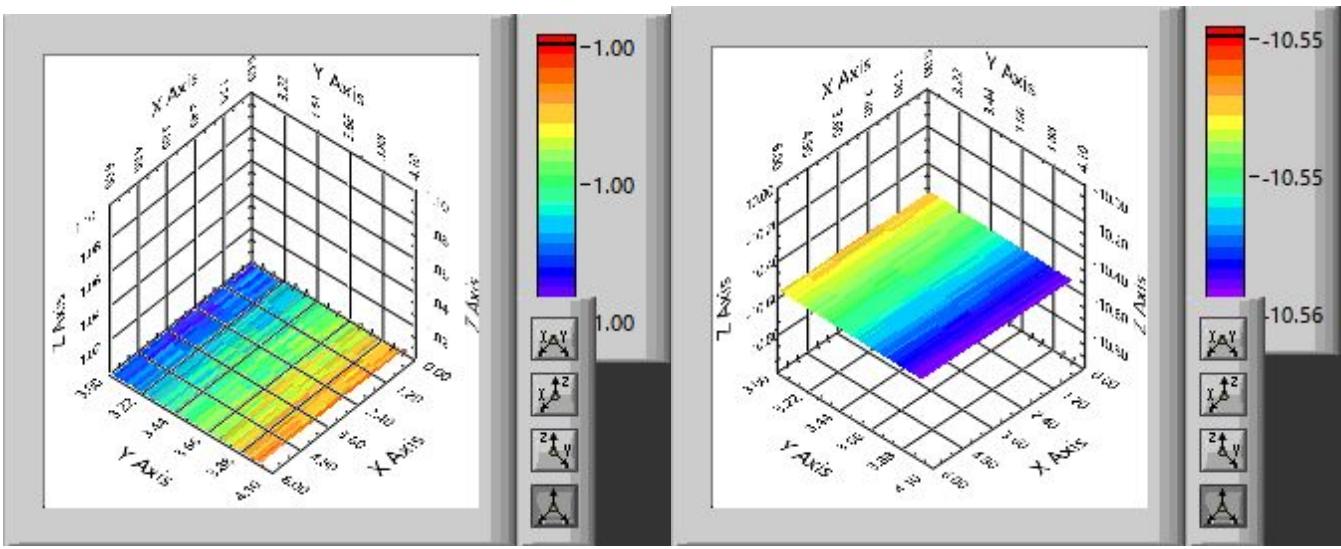
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
11 0.000100 -0.000104 0.000001 0.000031 0.001917 -0.002130 0.000056 0.000451



Fmin(MHz): 3.019802

Fmax(MHz): 4.019802

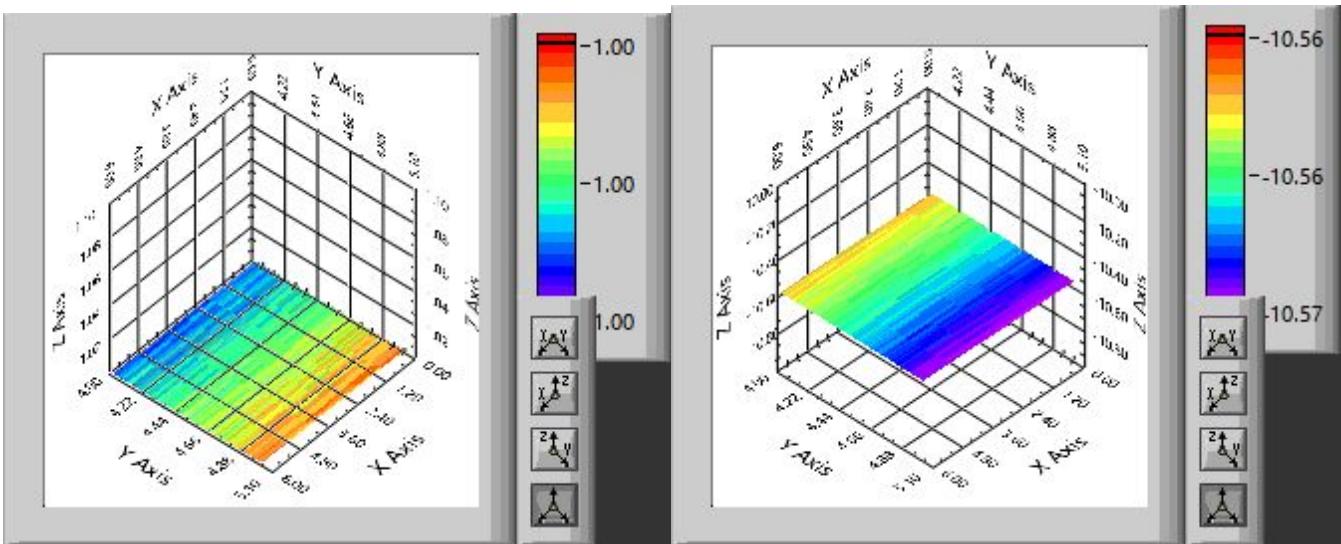
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
12 0.000094 -0.000102 -0.000003 0.000032 0.002339 -0.003441 0.000093 0.000475



Fmin(MHz): 4.029703

Fmax(MHz): 5.029703

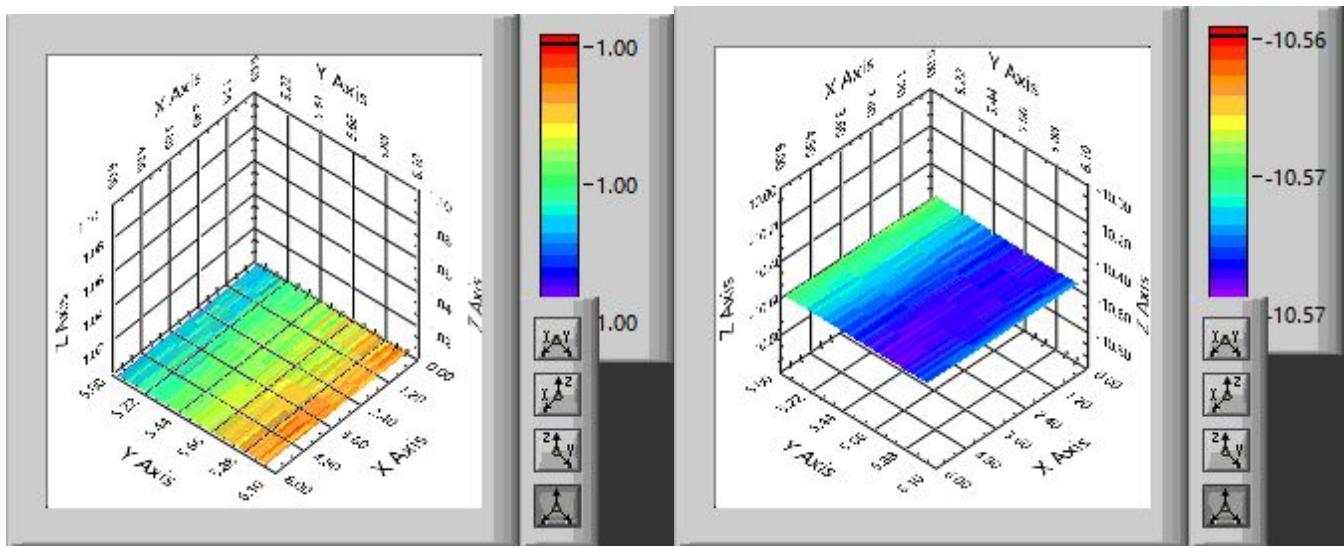
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
13 0.000093 -0.000128 -0.000010 0.000032 0.002505 -0.002894 -0.000056 0.000594



Fmin(MHz): 5.039604

Fmax(MHz): 6.039604

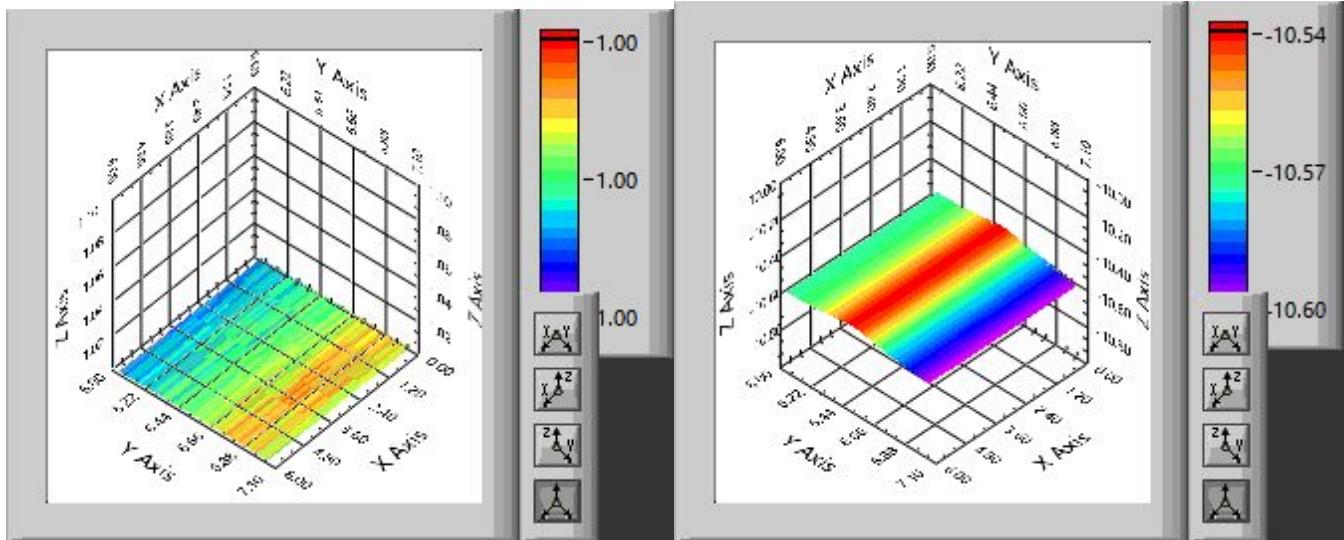
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
14 0.000096 -0.000091 -0.000001 0.000032 0.005306 -0.002009 0.000067 0.000575



Fmin(MHz): 6.049505

Fmax(MHz): 7.049505

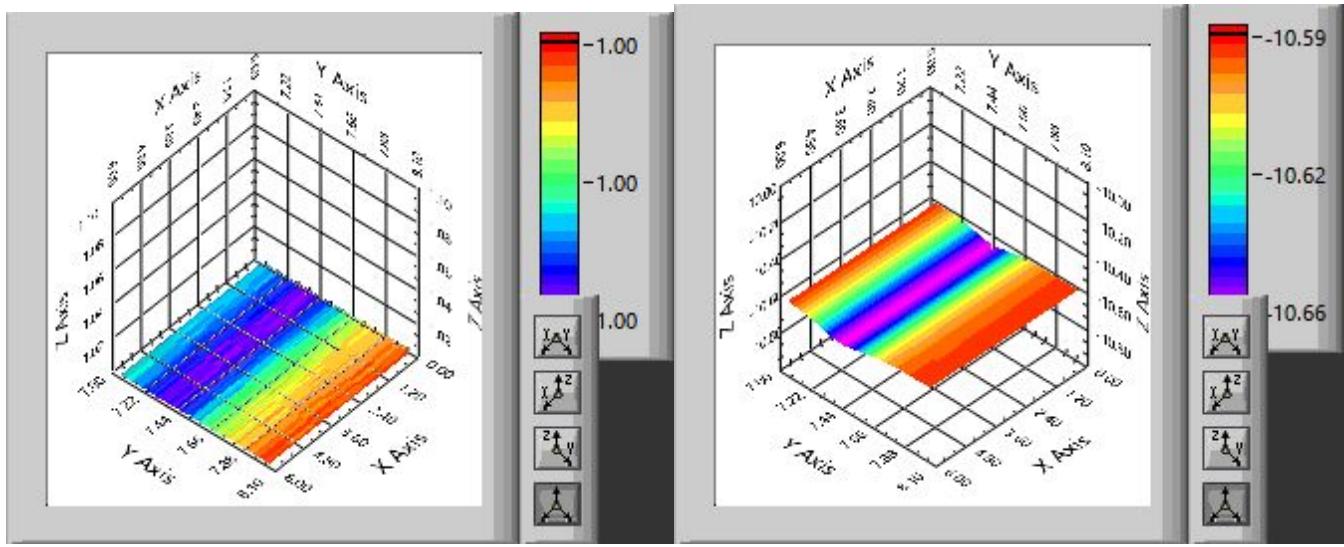
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
15 0.000089 -0.000113 0.000001 0.000030 0.002750 -0.001770 0.000159 0.000498



Fmin(MHz): 7.059406

Fmax(MHz): 8.059406

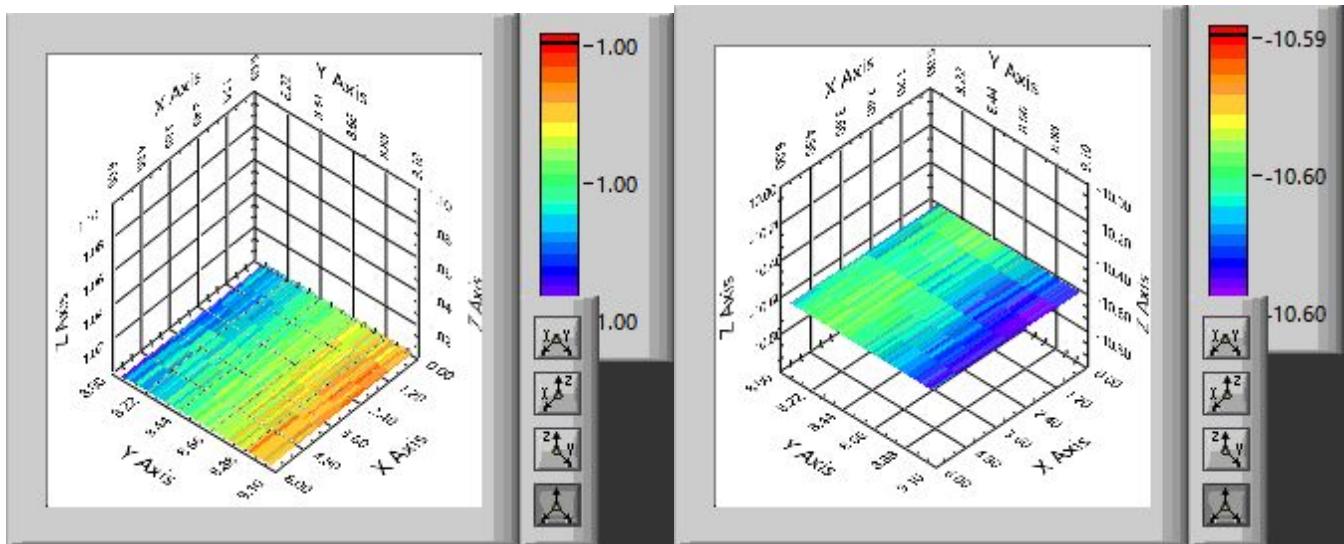
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
16 0.000092 -0.000106 -0.000002 0.000031 0.002077 -0.001379 -0.000028 0.000502



Fmin(MHz): 8.069307

Fmax(MHz): 9.069307

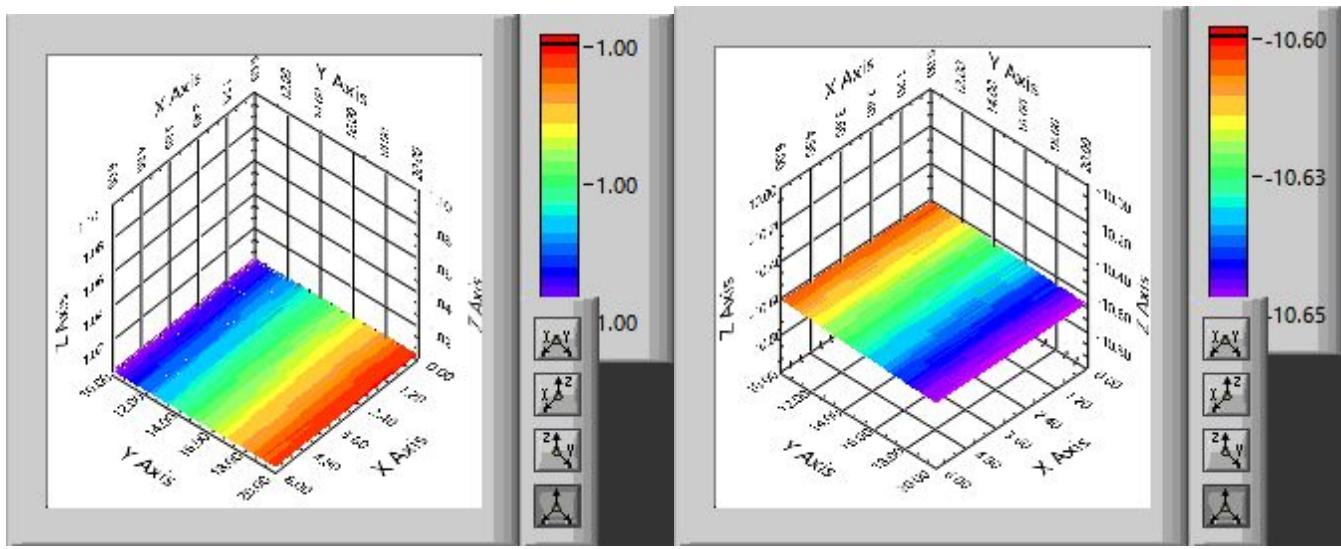
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
17 0.000111 -0.000083 0.000005 0.000031 0.005945 -0.002492 -0.000207 0.000725



Fmin(MHz): 10.000000

Fmax(MHz): 20.000000

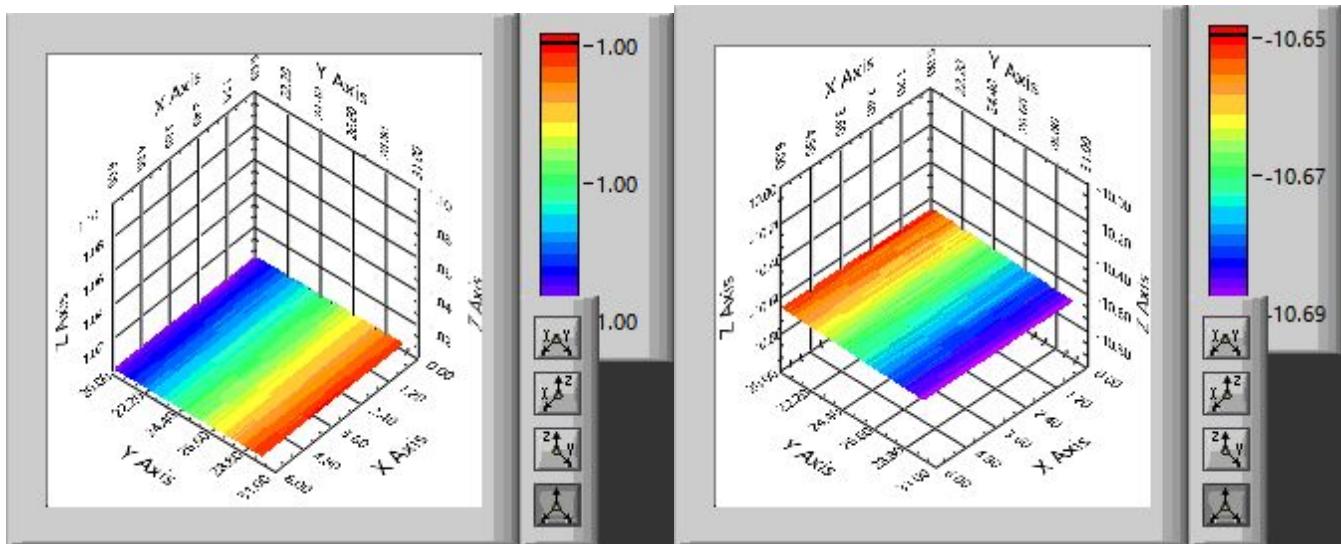
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
18 0.000145 -0.000085 0.000015 0.000027 0.005347 -0.006375 -0.000419 0.001473



Fmin(MHz): 20.099010

Fmax(MHz): 30.099010

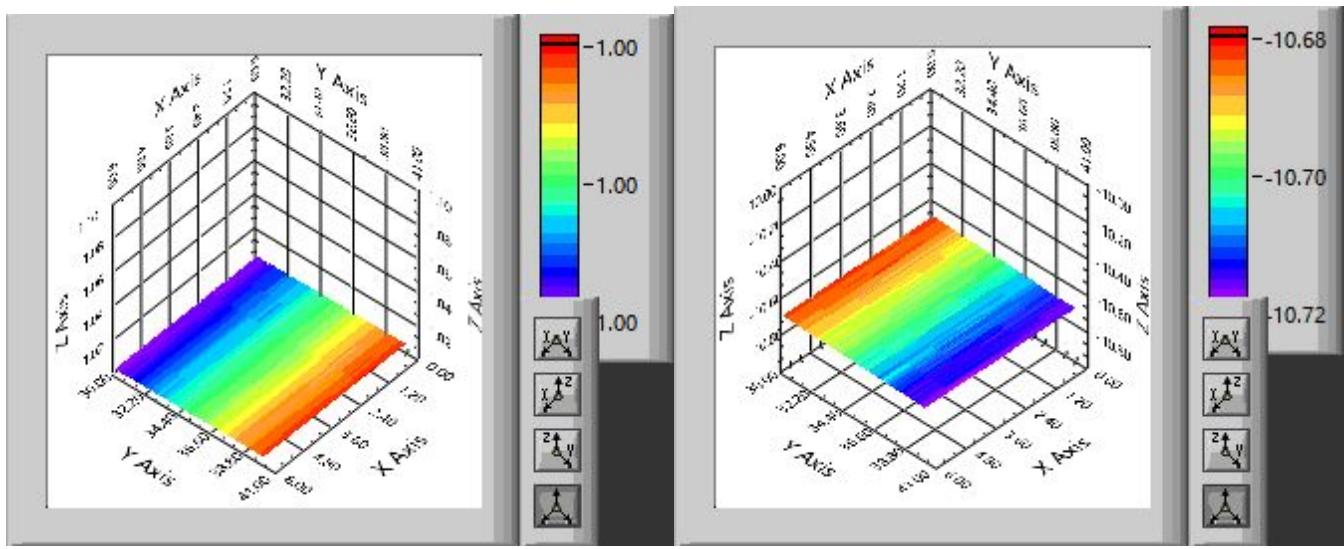
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
19 0.000108 -0.000085 0.000003 0.000028 0.005437 -0.005281 0.000086 0.001773



Fmin(MHz): 30.198020

Fmax(MHz): 40.198020

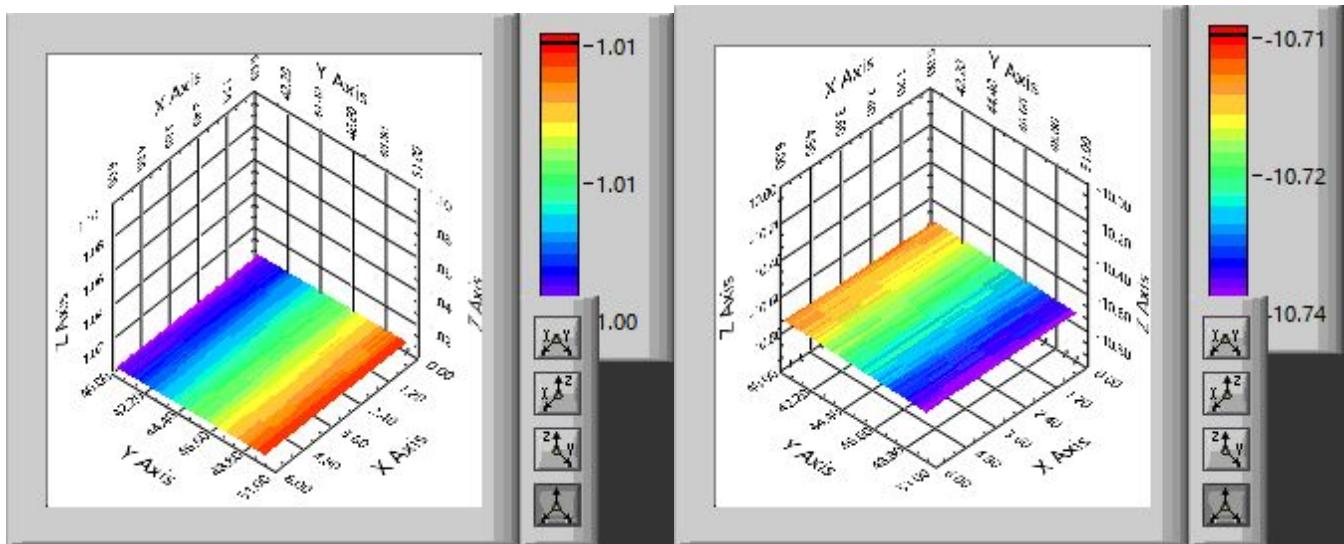
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
20 0.000099 -0.000076 0.000004 0.000027 0.005668 -0.004663 0.000227 0.001720



Fmin(MHz): 40.297030

Fmax(MHz): 50.297030

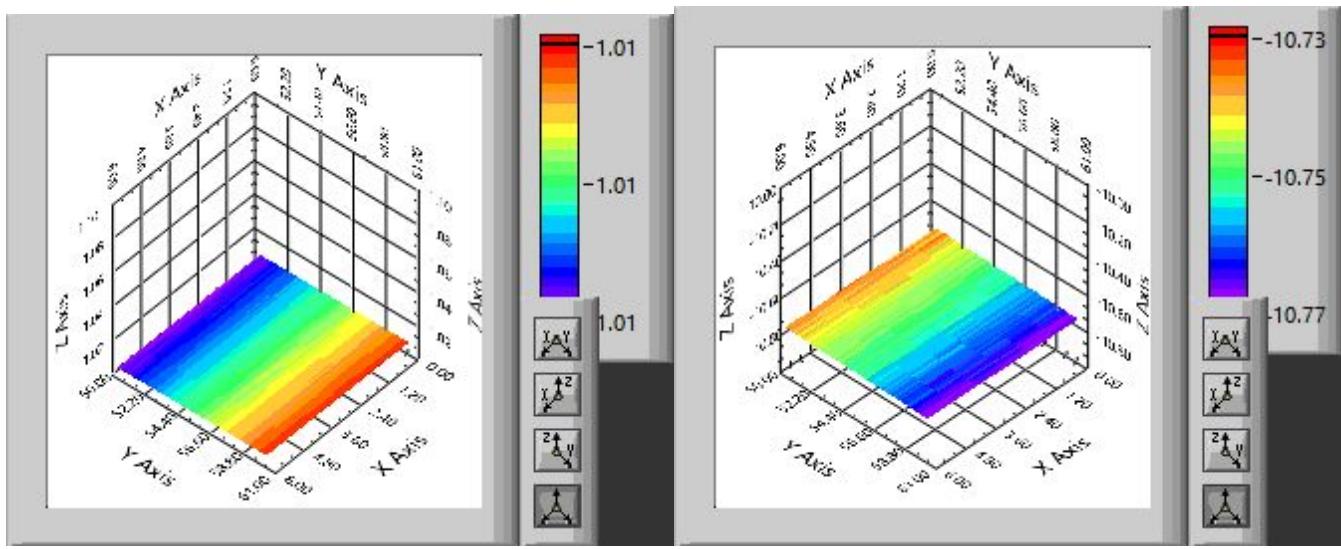
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
21 0.000104 -0.000094 -0.000003 0.000029 0.005342 -0.007348 -0.000359 0.001968



Fmin(MHz): 50.396040

Fmax(MHz): 60.396040

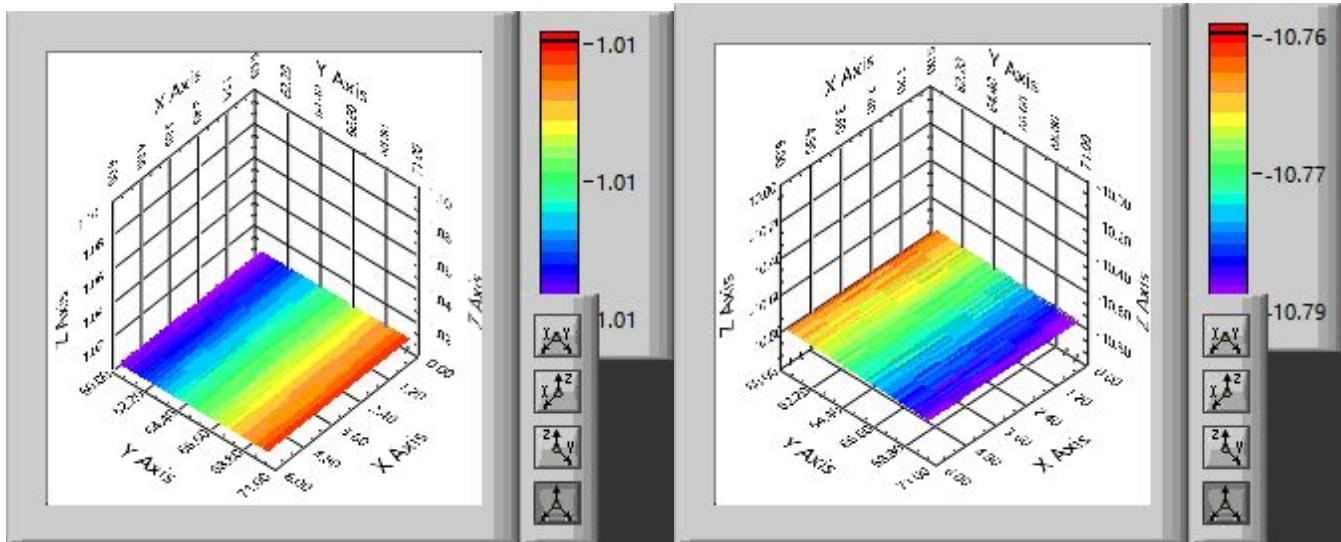
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
22 0.000088 -0.000108 -0.000001 0.000031 0.005742 -0.006692 0.000070 0.001985



Fmin(MHz): 60.495050

Fmax(MHz): 70.495050

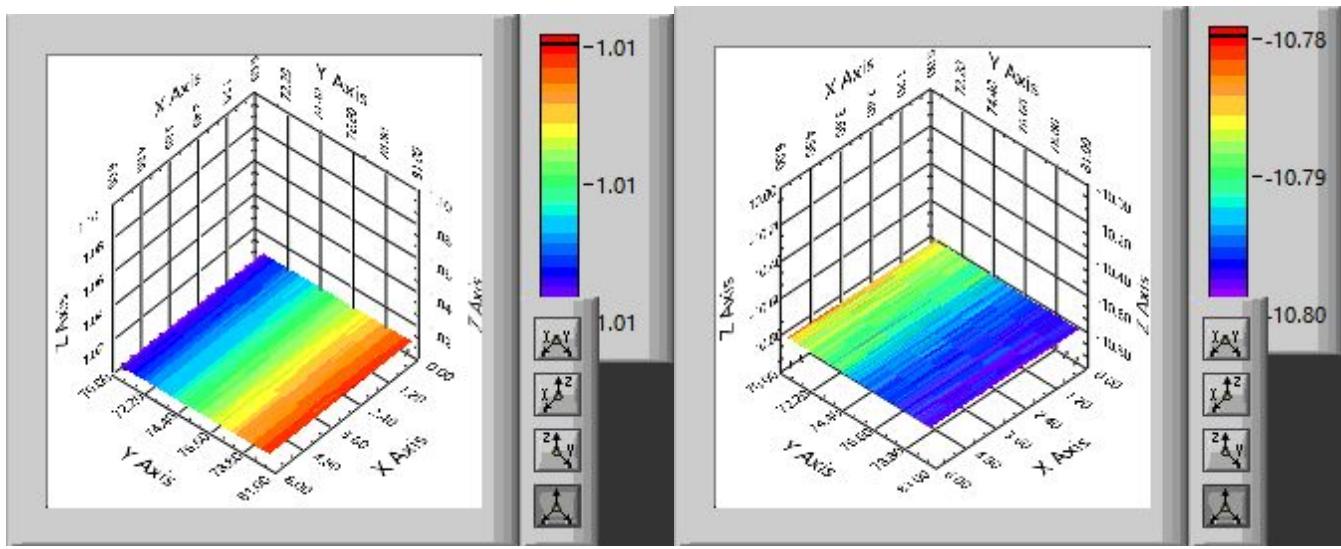
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
23 0.000089 -0.000096 -0.000001 0.000028 0.006643 -0.005717 0.000001 0.001973



Fmin(MHz): 70.594059

Fmax(MHz): 80.594059

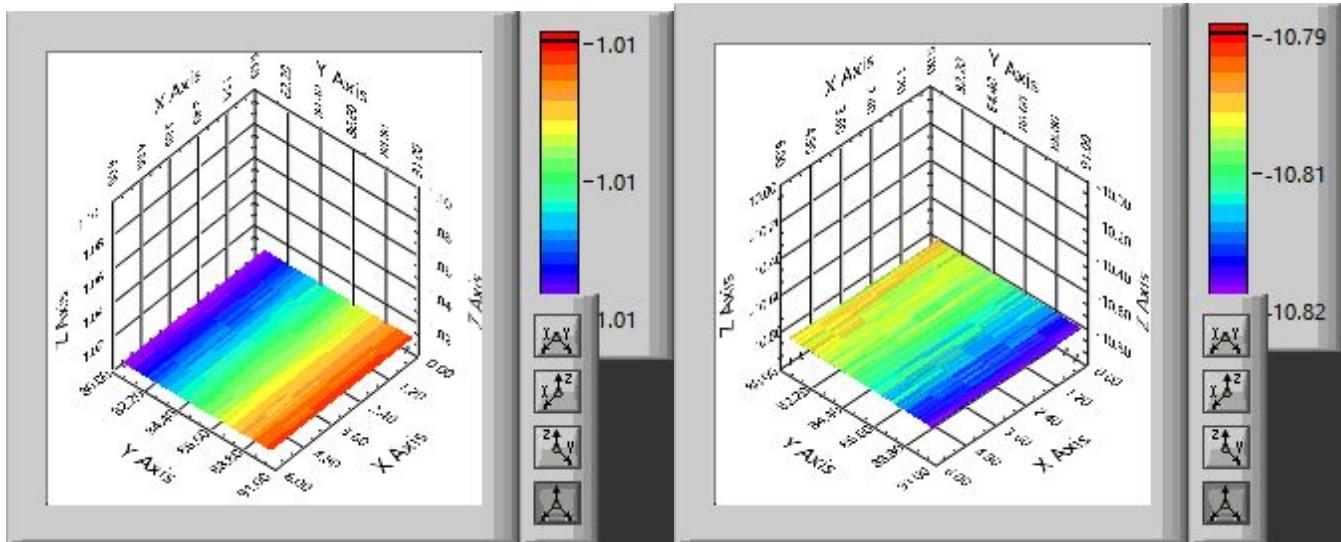
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
24 0.000103 -0.000120 0.000003 0.000031 0.005654 -0.005394 -0.000156 0.001872



Fmin(MHz): 80.693069

Fmax(MHz): 90.693069

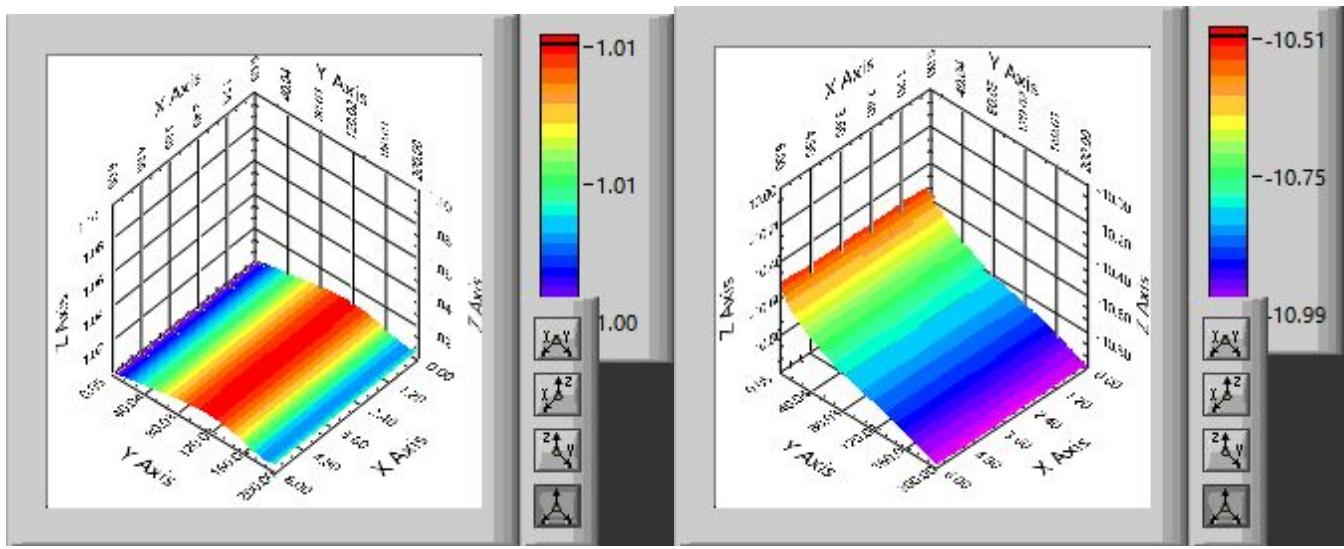
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
25 0.000099 -0.000111 0.000003 0.000030 0.006242 -0.005286 0.000041 0.001664



Fmin(MHz): 0.000000

Fmax(MHz): 200.000000

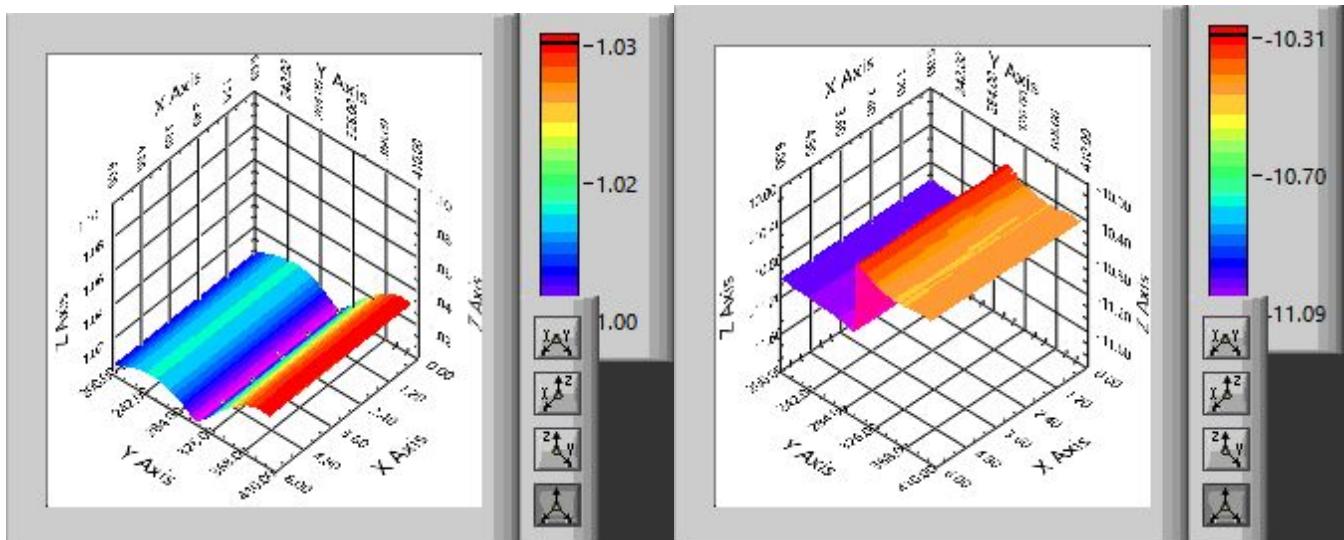
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
26 0.000121 -0.000105 0.000001 0.000035 0.006940 -0.018108 -0.000235 0.002164



Fmin(MHz): 201.980198

Fmax(MHz): 401.980198

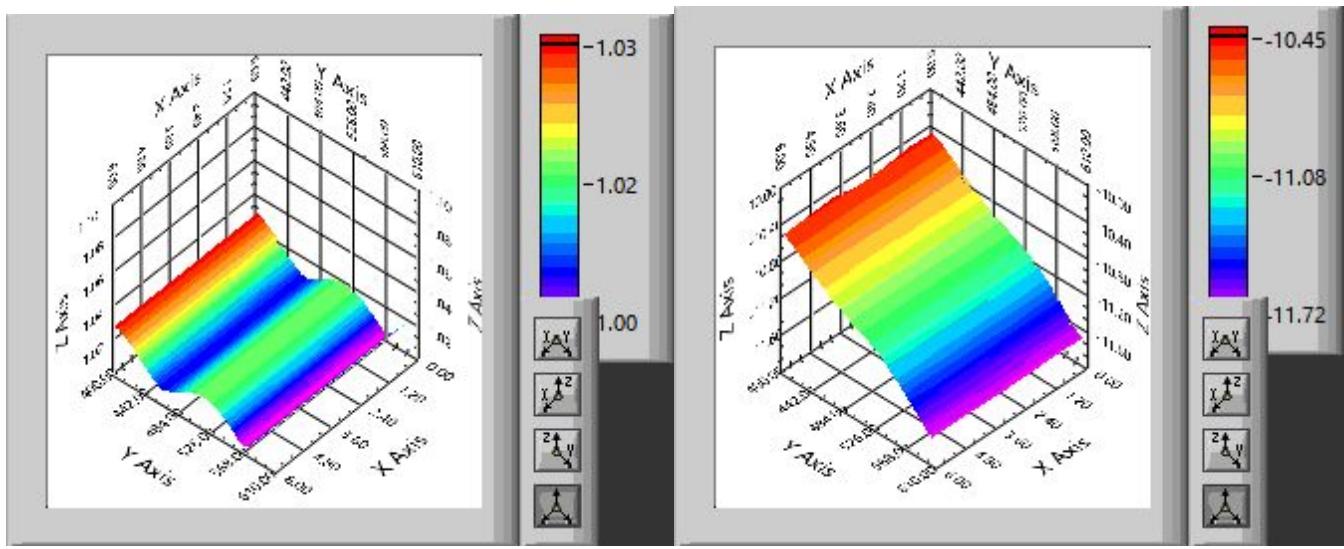
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
27 0.000427 -0.000672 0.000003 0.000088 0.037946 -0.028364 0.000618 0.004543



Fmin(MHz): 403.960396

Fmax(MHz): 603.960396

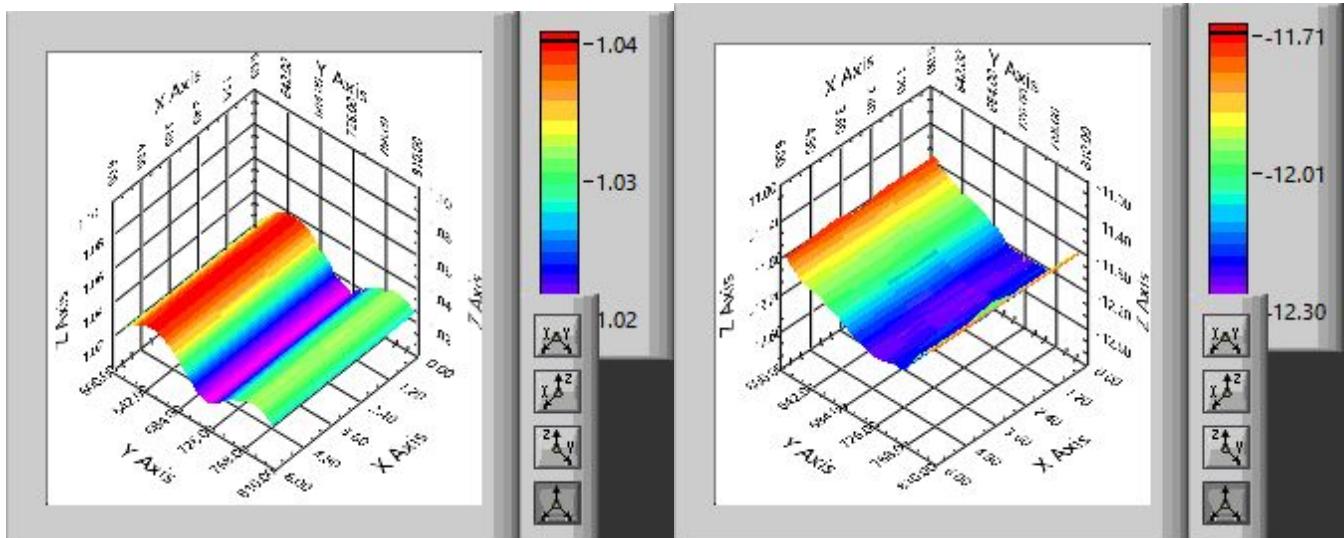
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
28 0.001292 -0.000336 0.000016 0.000145 0.051619 -0.065018 0.000294 0.008922



Fmin(MHz): 605.940594

Fmax(MHz): 805.940594

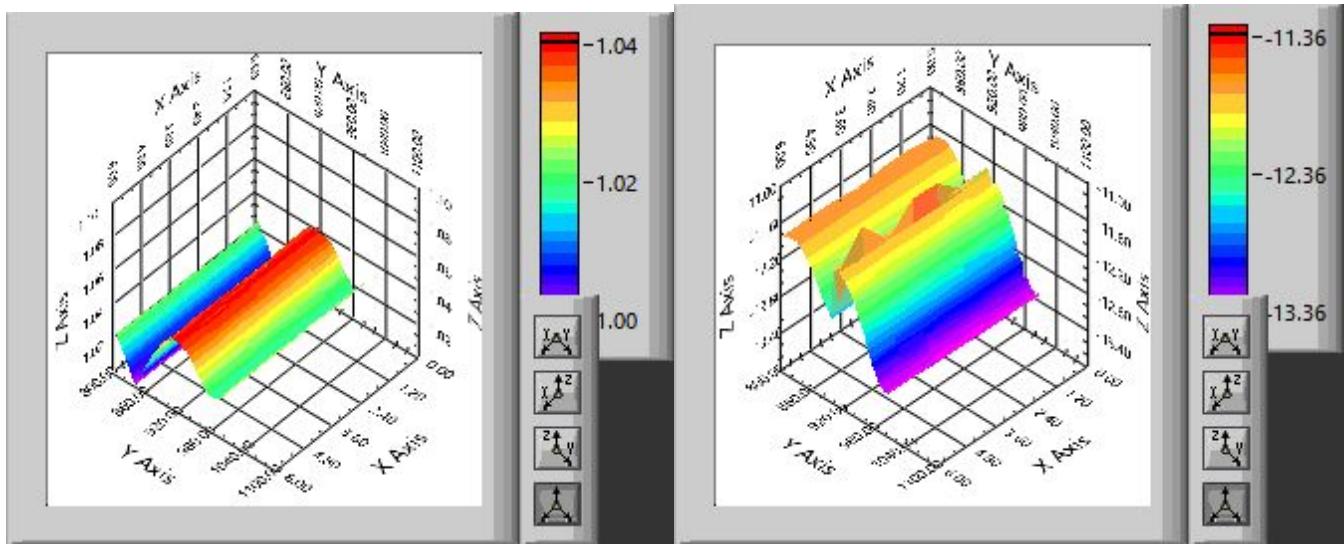
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
29 0.000527 -0.000395 0.000016 0.000152 0.069403 -0.088689 -0.000279 0.013685



Fmin(MHz): 807.920792

Fmax(MHz): 1007.920792

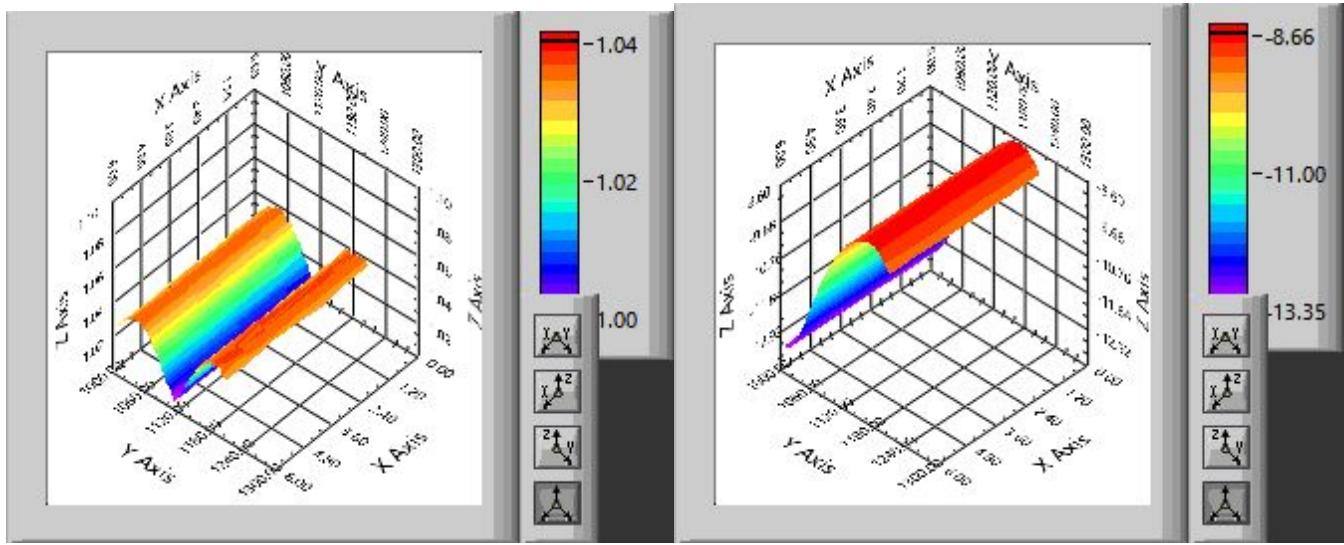
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
30 0.002576 -0.001535 0.000036 0.000451 0.999140 -0.067255 0.005350 0.069334



Fmin(MHz): 1009.900990

Fmax(MHz): 1209.900990

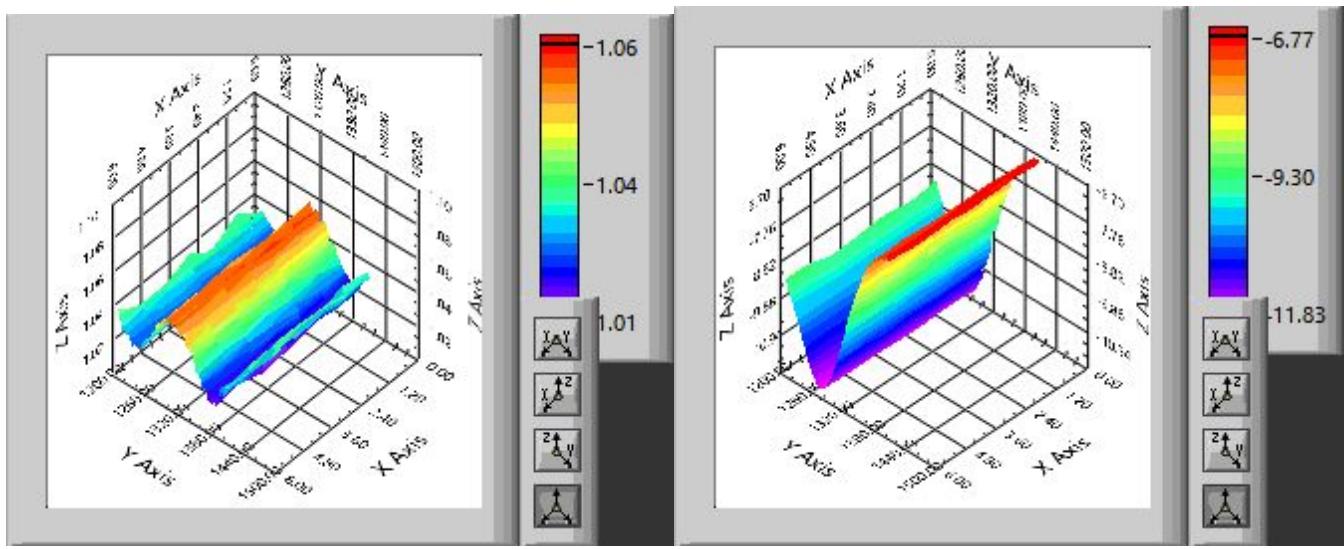
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
31 0.003910 -0.004092 -0.000032 0.001044 0.086898 -0.123324 0.004369 0.023885



Fmin(MHz): 1211.881188

Fmax(MHz): 1411.881188

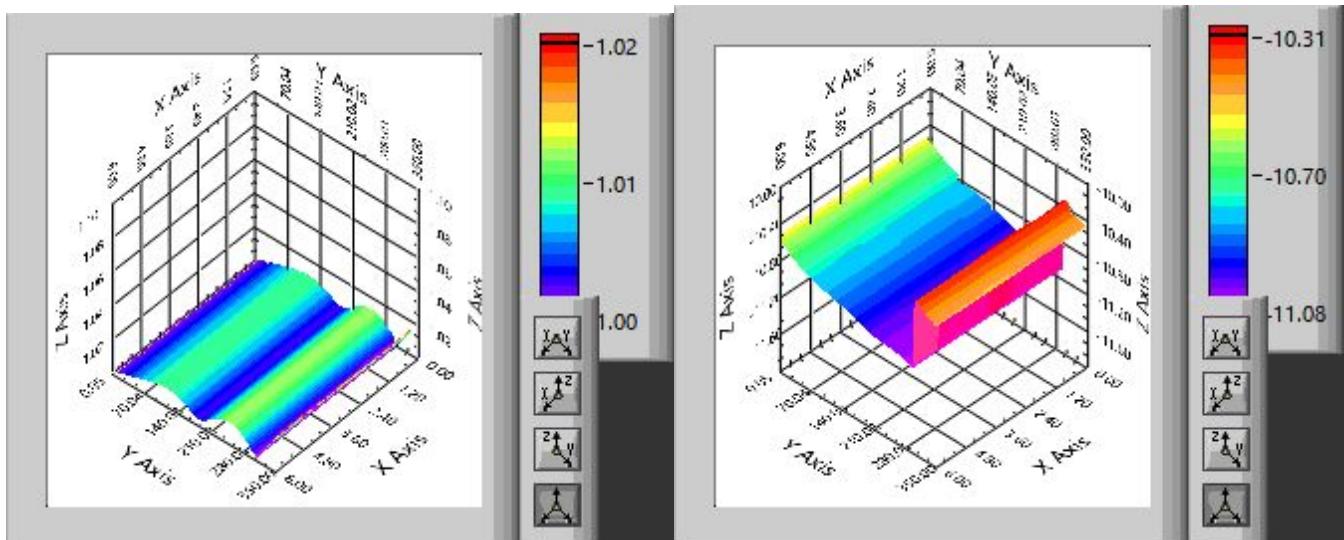
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
32 0.009750 -0.012550 0.000077 0.002396 0.185746 -0.252556 -0.008638 0.042862



Fmin(MHz): 0.000000

Fmax(MHz): 350.000000

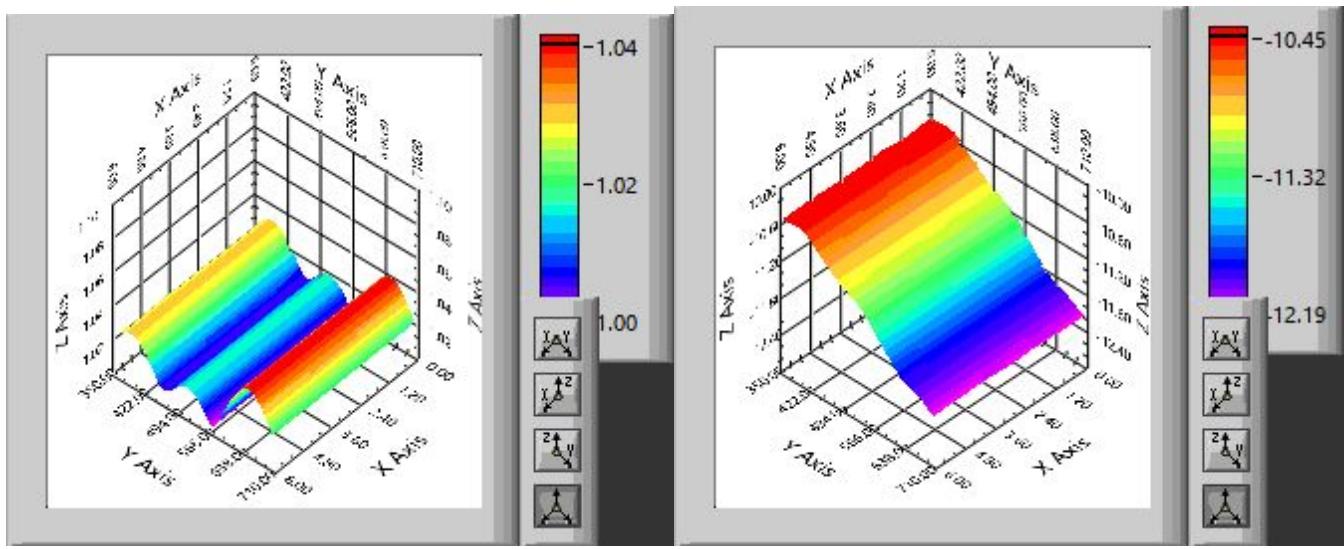
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
33 0.000313 -0.001312 -0.000007 0.000120 0.062633 -0.008615 0.000453 0.004879



Fmin(MHz): 353.465347

Fmax(MHz): 703.465347

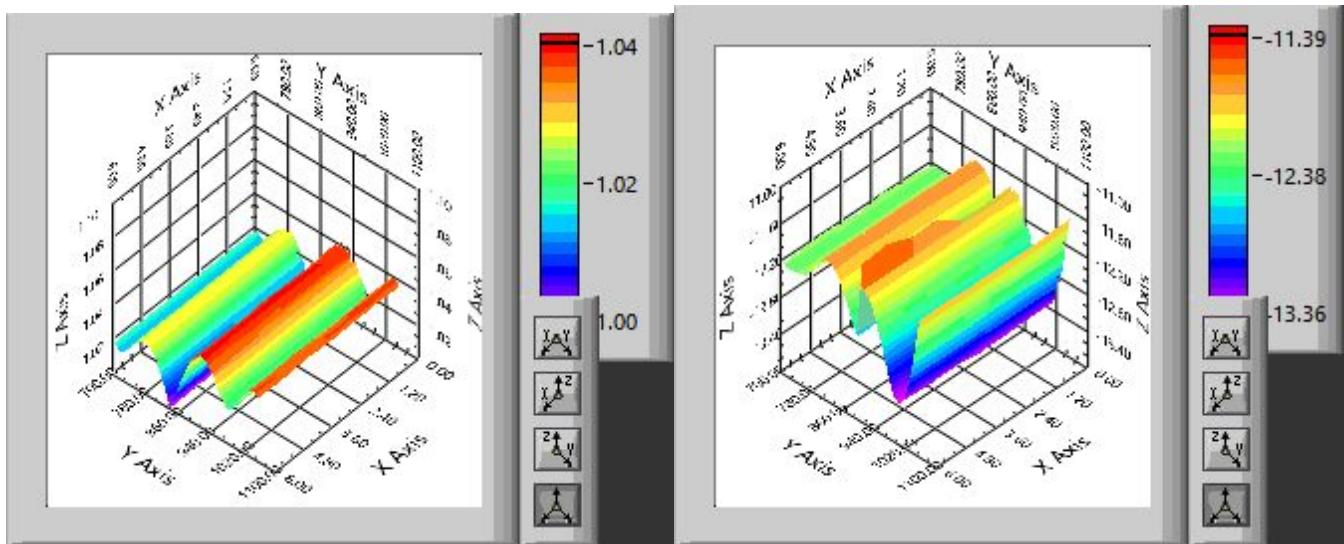
Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
34 0.001725 -0.000405 0.000023 0.000175 0.073328 -0.042470 0.001831 0.009534



Fmin(MHz): 706.930693

Fmax(MHz): 1056.930693

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
35 0.001531 -0.002068 0.000004 0.000420 0.092460 -0.860382 0.000395 0.051935



Fmin(MHz): 1060.396040

Fmax(MHz): 1410.396040

Pattern CH0 Min CH0 Max CH0 Mean CH1 StdDev CH1 Min CH1 Max CH1 Mean CH1 StdDev  
36 0.007486 -0.005539 0.000199 0.001695 0.370567 -0.378669 0.010200 0.051051

