SUMMARY TEST DATA
ON
PEC-40/25-218-21-12-SFF-TTLVG Rev B

Customer: _____
SO No: _____
Model No: PEC-40/25-218-21-12-SFF-TTLVG Rev B
Serial No: PL28672/2016

Tested By: H. Gonzales
Temperature: +25°C
Date: 5/5/2021
Drawing No: 27605737 **REV:** B1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Frequency Range:	2 GHz to 18 GHz	2 GHz to 18 GHz	PMI QA1
2	Max Gain @ Max Gain Position: Min Gain @ Max Gain Position: Max Gain @ Min Gain Position: Min Gain @ Min Gain Position:	+42 dB Max. +38 dB Min. +27 dB Max. +23 dB Min.	41.1 dB 37.4 dB 27.2 dB 23 dB See Plots	
3	Pout @ 1 dB Compression Max Gain Position: Min Gain Position:	+21 dBm Min. +20 dBm Min.	19.2 dBm Max Gain 18.6 dBm Min Gain See Plot	
4	Psat (Both Gains) Over Operating Temperature Range	+26 dBm Max.	Pass See Typical Characteristics	
5	Noise Max gain Position: Min Gain Position:	+4.5 dB Max. +7.0 dB Max.	Pass See Typical Characteristics	
6	VSWR: In/Out	2.0:1 Max.	1.7:1 In 1.8:1 Out See Plots	
7	Input/Output Impedance:	50 Ω Nominal	50 Ω See Typical Characteristics	
8	Input Power: (Without Damage)	+20 dBm CW Max.	+20 dBm Pass	
9	In-Band Harmonics: @ or below the 1 dB Compression Point	-10 dBc Min.	>-10 dBc See Typical Characteristics	
10	Pulse Rise Time: with input signals up to 20 dBm	<5 ns	<5 ns See Typical Characteristics	
11	Pulse Overshoot: with input signals up to 20 dBm	<0.5 dB	<0.5 dB See Typical Characteristics	
12	Pulse Droop: with pulses up to 250 µs in duration input signals up to -20 dBm	<2.0 dB	<2.0 dB See Typical Characteristics	
13	Pulse Recovery Time: with pulses up to 250 µs in duration input signals up to -20 dBm	15 ns	<15 ns See Typical Characteristics	
14	Gain Switching Time:	<500 ns	<500 ns See Typical Characteristics	
15	Gain Switch Control:	TTL High "1" - Max Gain TTL Low "0" - Min Gain	Pass	
16	DC Supply:	610 mA Max. @ +12 V ±5%	344 mA	PMI QA1

QA/QC Approval: _____ PMI QA1 Date: 9/3/21

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com

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ON
PEC-40/25-218-21-12-SFF-TTLVG Rev B

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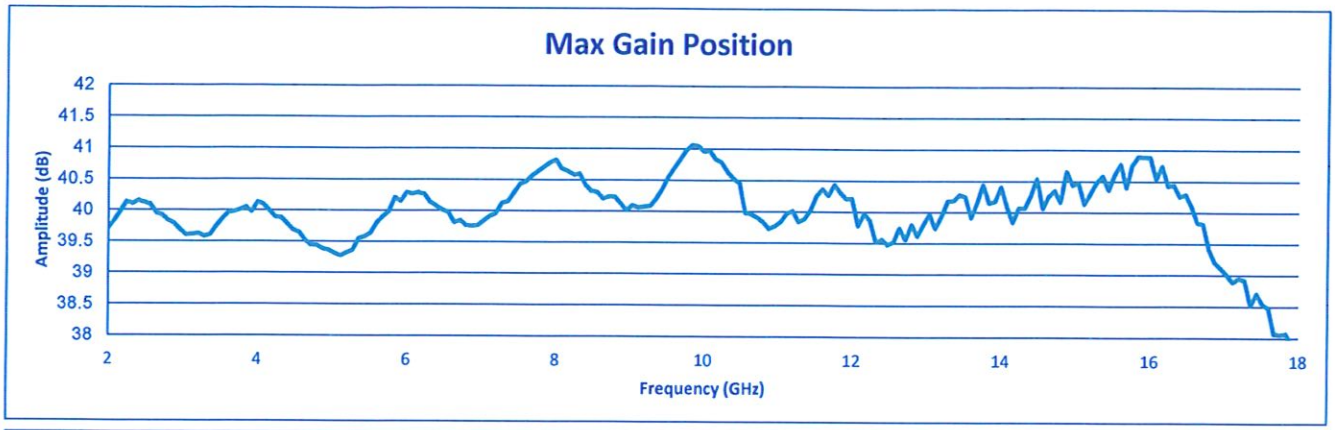

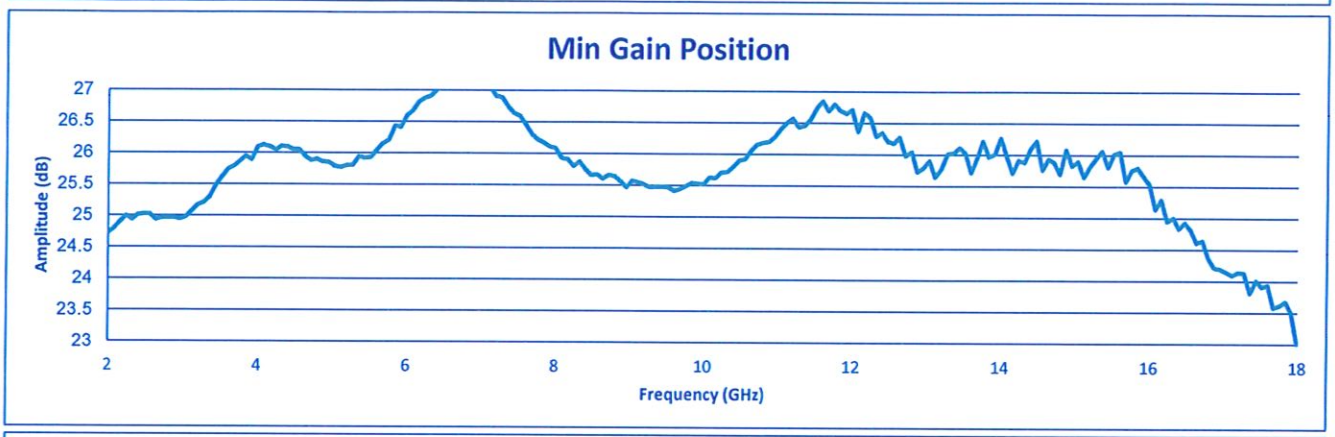

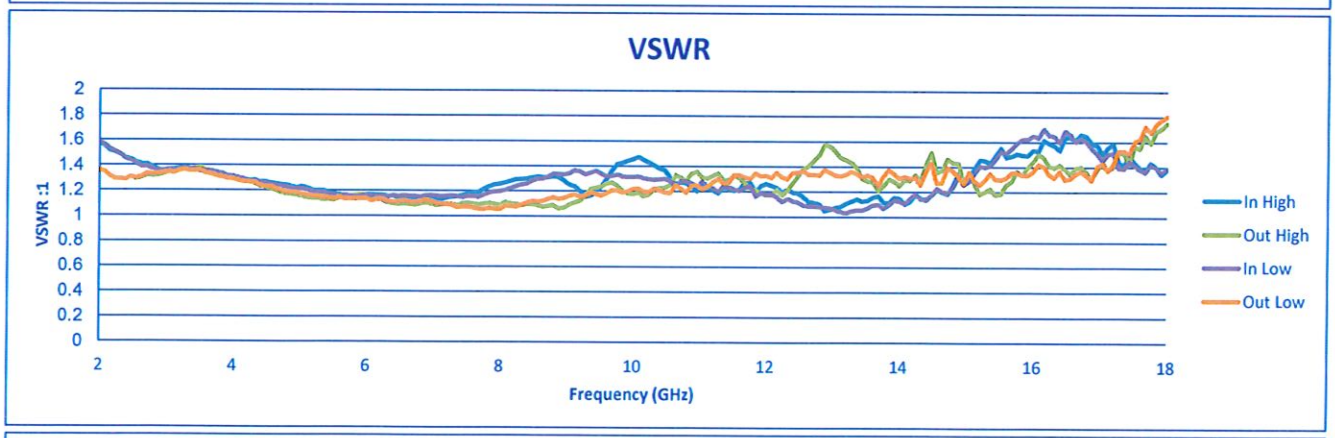

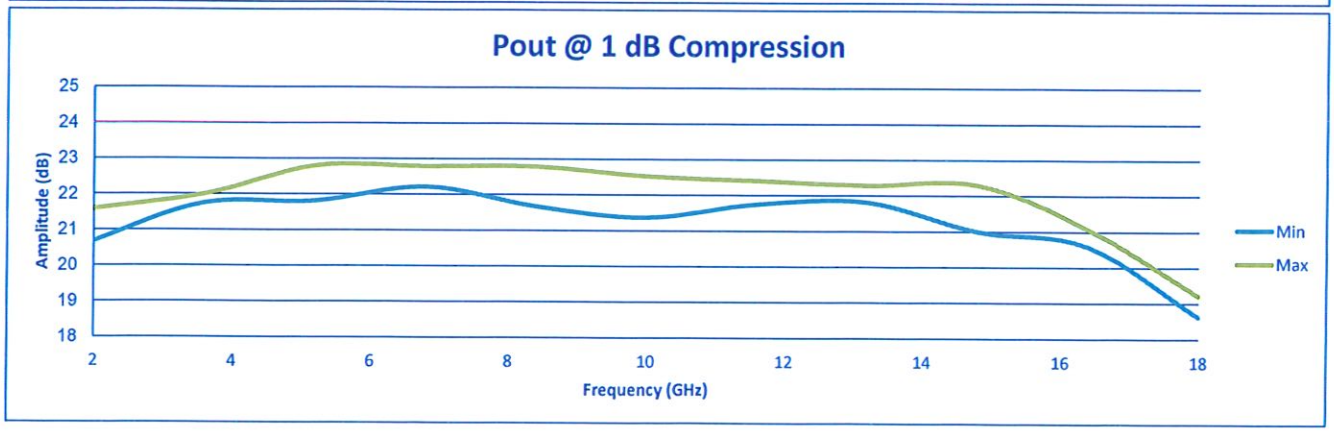

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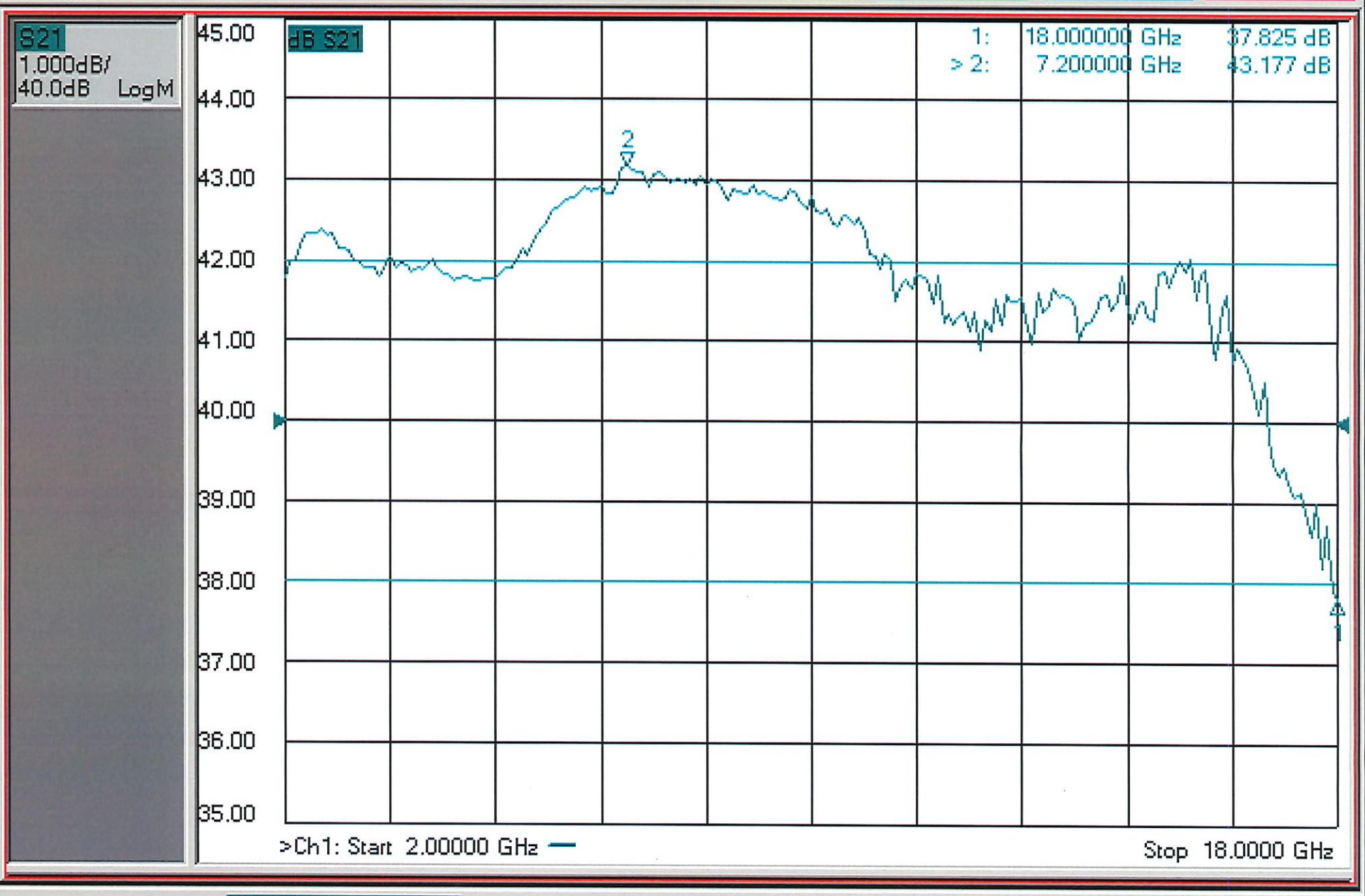
4-8-21

PL28672

File View Channel Sweep Calibration Trace Scale Marker System Window Help

Stimulus Start 2.000000000 GHz Start Stop Center Span



Cont. CH 1: S21 CA 2-Port LCL

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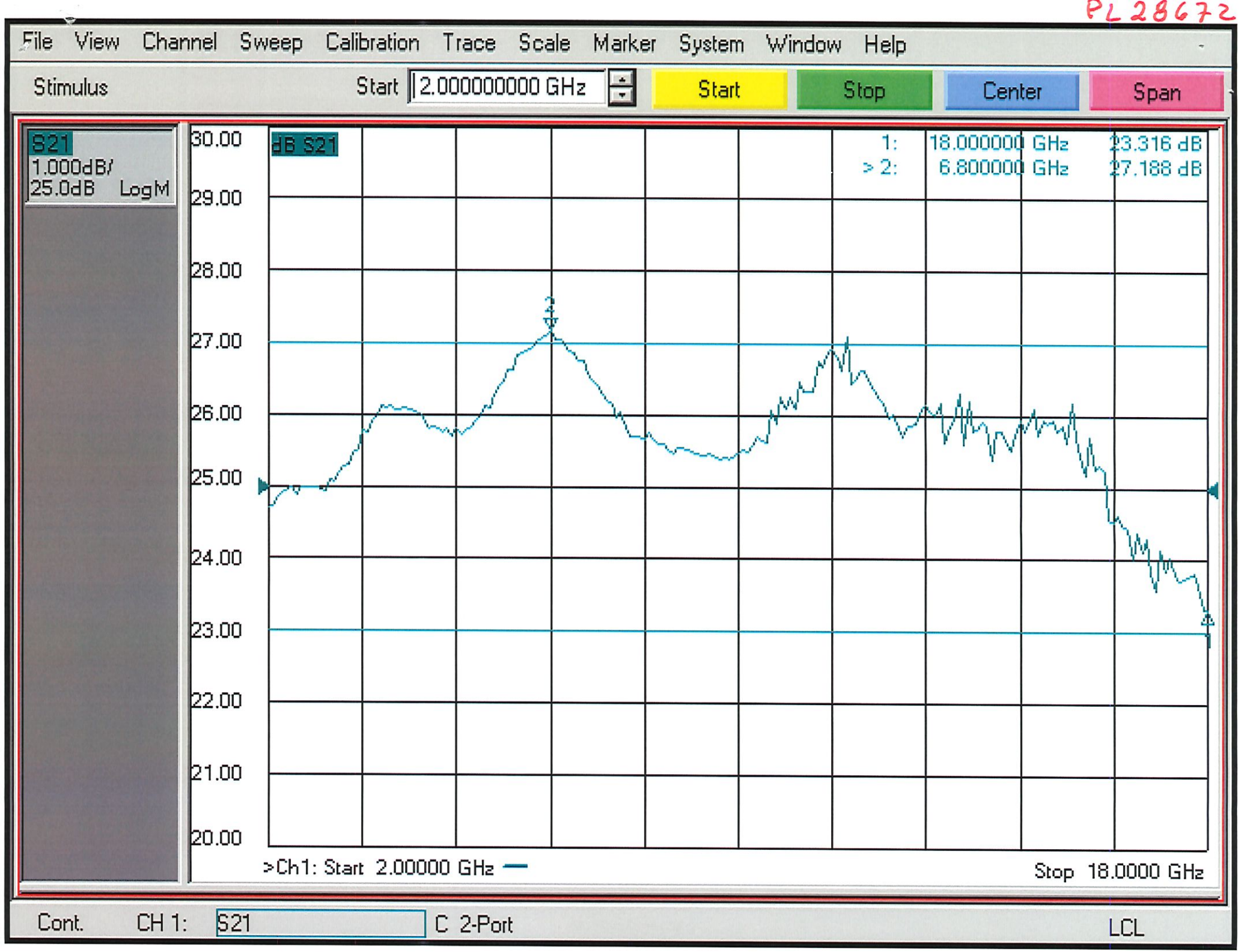
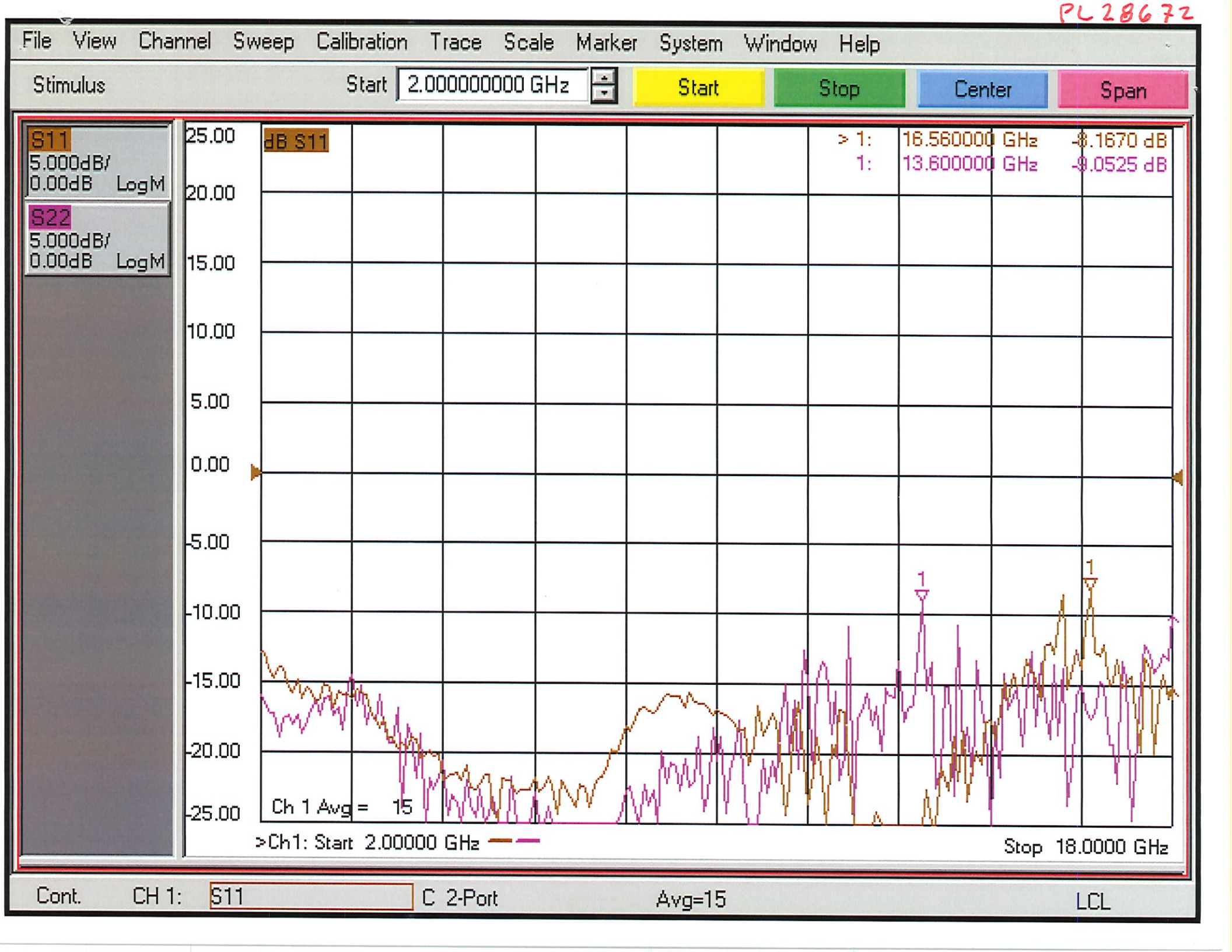

File View Channel Sweep Calibration Trace Scale Marker System Window Help
Stimulus
Start 2.000000000 GHz
Start
Stop
Center
Span
S21
1.000dB/
25.0dB LogM
dB S21
1: 18.000000 GHz 23.316 dB
> 2: 6.800000 GHz 27.188 dB
30.00
29.00
28.00
27.00
26.00
25.00
24.00
23.00
22.00
21.00
20.00
>Ch1: Start 2.00000 GHz
Stop 18.0000 GHz
Cont.
CH 1:
S21
C 2-Port
LCL

PL28672


File View Channel Sweep Calibration Trace Scale Marker System Window Help
Stimulus
Start 2.000000000 GHz
Start
Stop
Center
Span
S11
5.000dB/
0.00dB LogM
S22
5.000dB/
0.00dB LogM
dB S11
> 1: 16.560000 GHz -8.1670 dB
1: 13.600000 GHz -9.0525 dB
25.00
20.00
15.00
10.00
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
Ch 1 Avg = 15
>Ch1: Start 2.00000 GHz
Stop 18.0000 GHz
Cont.
CH 1:
S11
C 2-Port
Avg=15
LCL