

SUMMARY TEST DATA ON PTB-42-1G40G-12-292FF-DC12

Customer: _____
 SO No: _____
 Model No: PTB-42-1G40G-12-292FF-DC12
 Serial No: PL52916/2519
 Part No: _____

Tested By: Jim Hopson
 Temperature: 25 Degrees C
 Date: 5/8/2025
 Drawing No: 27606212 REV: A2

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Frequency Range:	1.0 GHz - 40 GHz	1.0 GHz - 40 GHz	
2	Gain:	40 dB Typ.	40.1 dB Min. 34.7 dB Max. See Plot	
3	Gain Flatness:	±2.5 dB Typ.	+/- 2.6 dB See Plot"	
4	Noise Figure:	5.0 dB Typ. MID-BAND	5.0 dB typ	
5	OP1dB:	+22 dBm Typ. (1-18 GHz) +18 dBm Typ. (18-40 GHz)	18.8 dbm / 15.5dbm See Plot	
6	VSWR: (Input/Output)	2.5:1 Typ.	1.92:1 / 1.80:1	
7	Maximum RF Input:	+15 dBm	+15 dBm	
8	AC Voltage Supply:	120 VAC	120 VAC	
9	DC Voltage Supply: (External)	+12 VDC	+12 VDC @ 440 mA	

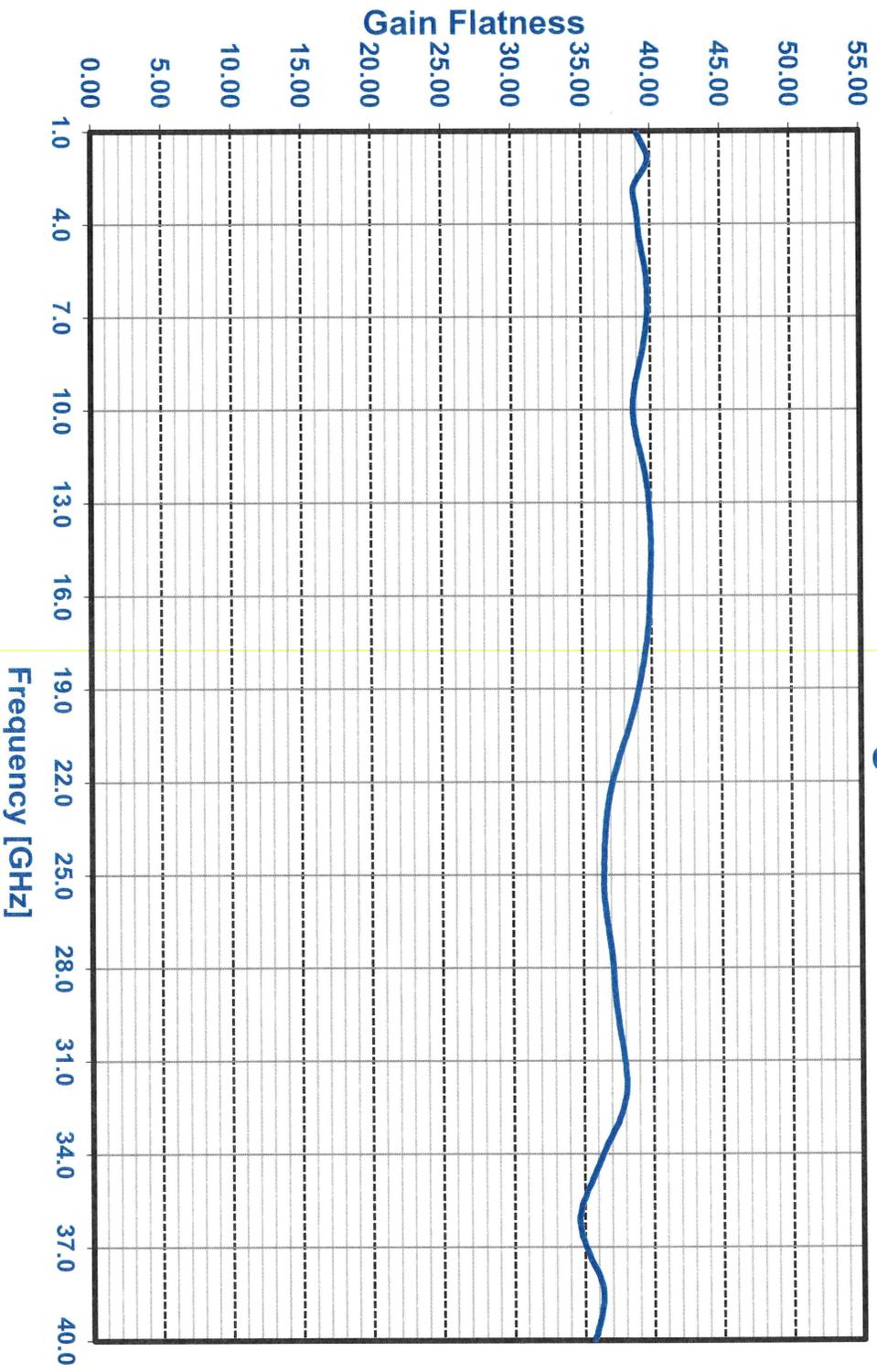
QA/QC Approval: 

Date: 5-8-25

Model Number: PTB-42-1G40G-12-292FF-DC12
Serial Number: PL52916

Temperature: +25C

Small Signal Gain

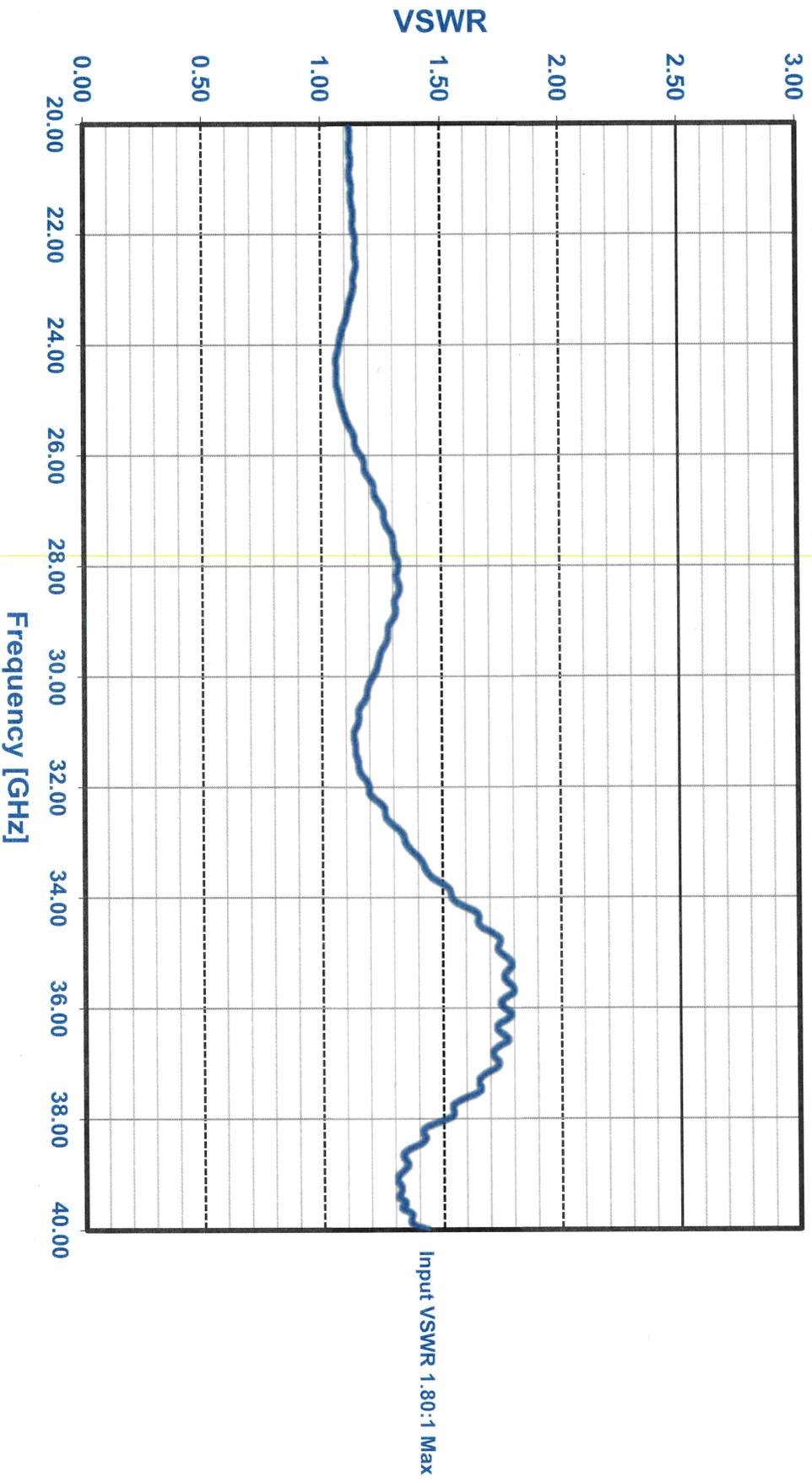


Gain 38.1dB (avg)

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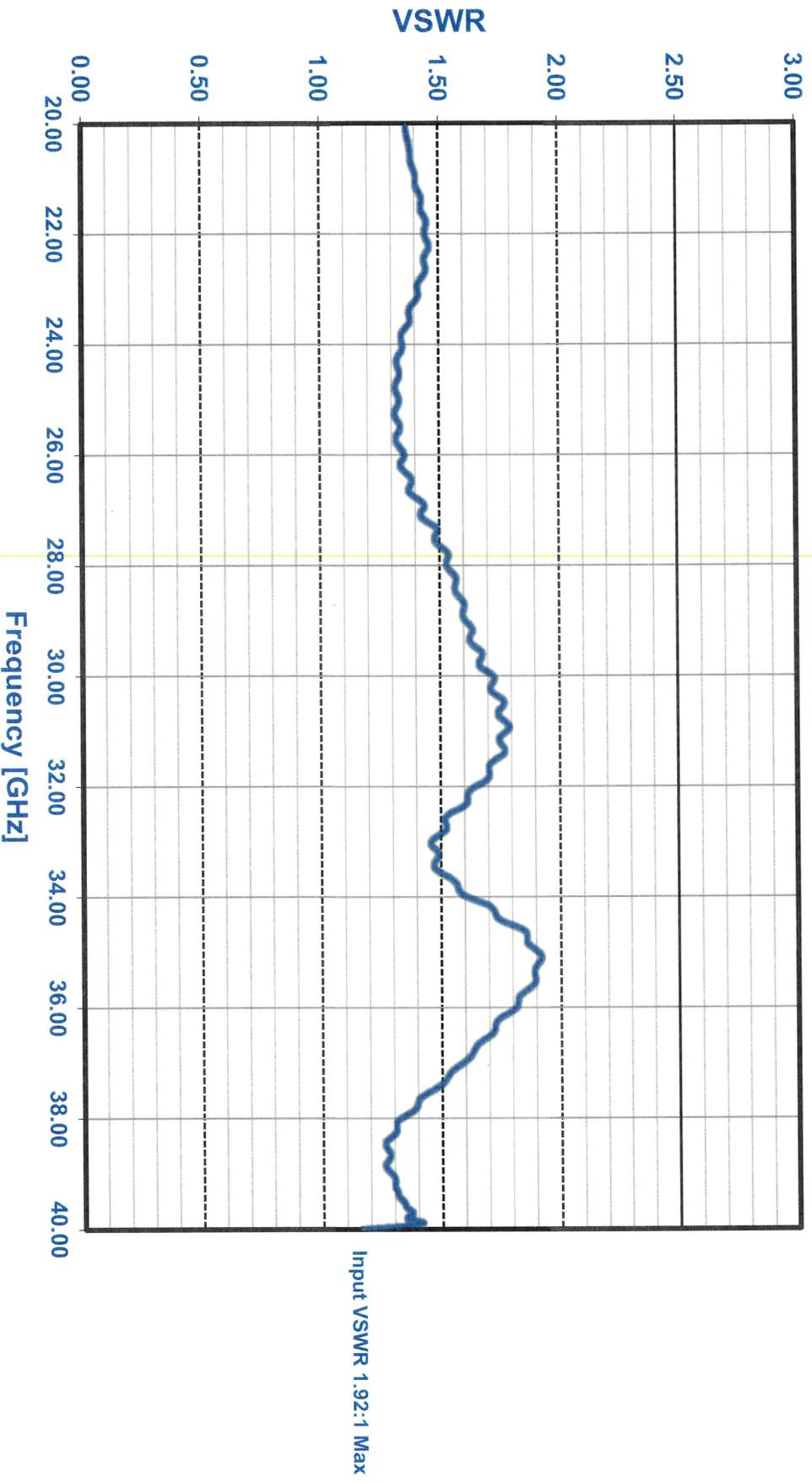
VSWR GRAPH



Model Number: PTB-42-1G40G-12-292FF-DC12
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VSWR GRAPH



PTB-42-1GM40G-12-292FF-DC12

SN PL52916

FREQ GHz	1dB COMPRESSION		P-SAT	
1	19.80	dBm	23.70	dBm
2.5	19.10	dBm	23.50	dBm
4.5	19.60	dBm	23.00	dBm
6.5	19.60	dBm	22.60	dBm
8.5	19.10	dBm	22.20	dBm
10.5	18.70	dBm	21.80	dBm
12.5	18.70	dBm	21.40	dBm
14.5	18.20	dBm	21.00	dBm
16.5	17.80	dBm	20.30	dBm
18	17.60	dBm	20.10	dBm
20.5	17.20	dBm	19.60	dBm
22.5	17.00	dBm	19.20	dBm
24.5	16.90	dBm	19.40	dBm
26.5	16.10	dBm	18.50	dBm
28.5	14.90	dBm	18.20	dBm
30.5	14.50	dBm	17.50	dBm
32.5	14.90	dBm	17.50	dBm
34.5	14.20	dBm	17.70	dBm
36.5	14.10	dBm	18.10	dBm
38.5	14.10	dBm	18.00	dBm
40	14.2	dBm	18.20	dBm