



**TEMPERATURE TEST DATA  
ON  
PLO-9G-CD-1**

**PL23999/1849**

Customer: _____	Tested By: <u>E. Kretz &amp; S. Palacio</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>PLO-9G-CD-1</u>	Date: <u>1/2/19</u>
Serial No: <u>PL23999/1849</u>	Drawing No: <u>27622744</u> Rev: <u>A1</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC	
1	Output Frequency (fo):	9.0GHz	9.0GHz	PMI QA 1	
2	Output Power:	+21dBm Min +25dBm Max	+21.01 dBm (See Plot)		
3	Reference (fi):	100 ±0.01 MHz 0 ±3dBm	100 MHz		
4	VSWR:	< 1.5:1 (ALL PHASES)	1.4:1		
5	Spurious:	-60dBc Min	-95.07 dBc (See Plot)		
6	Harmonics:	-25dBc Min	-28.86 dBc (See Plot)		
7	Phase Noise:	20 log(fo/fi)+6dB Typ. @ 10KHz – 100KHz -100 dBc/Hz Min @ 100KHz -120 dBc/Hz Min @ 1MHz	-114.99 dBc @ 100KHz -139.36 dBc @ 1MHz (See Plots)		
8	Lock Alarm:	TTL "H" : Out Of Lock TTL "L" : Lock	PASS		
9	Primary Power:	+12 to +15.5 Vdc @ 500mA Max -12 to -15.5 Vdc @ 100mA Max	281 mA @ +12 to +15.5 Vdc 22 mA @ -12 to -15.5 Vdc		
10	Weight:	250g (10 oz) Max	3.3 oz		PMI QA 1

QA/QC Approval: \_\_\_\_\_ PMI QA 1 Date: 1/2/19

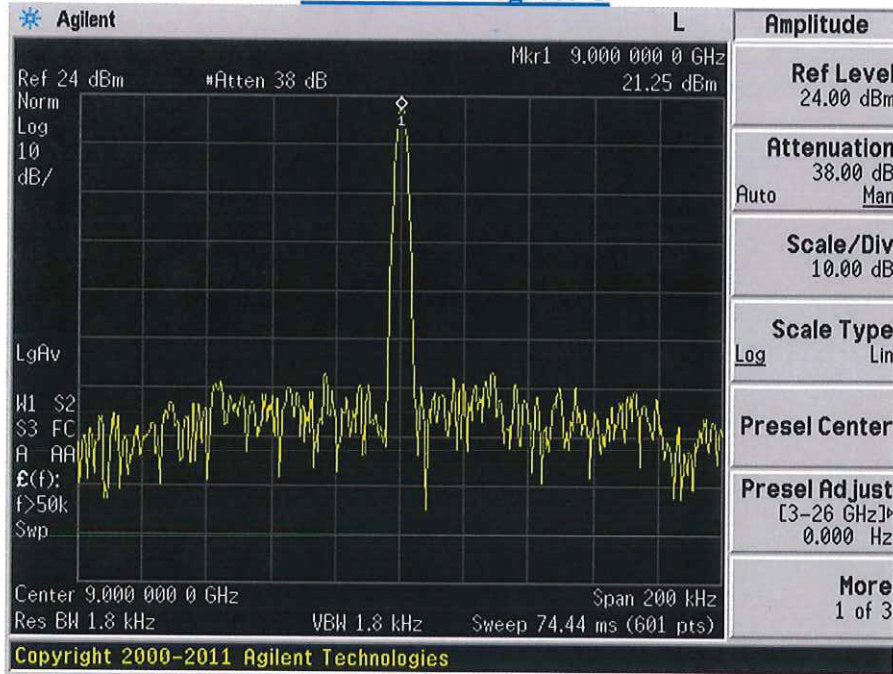


**TEMPERATURE TEST DATA  
ON  
PLO-9G-CD-1**

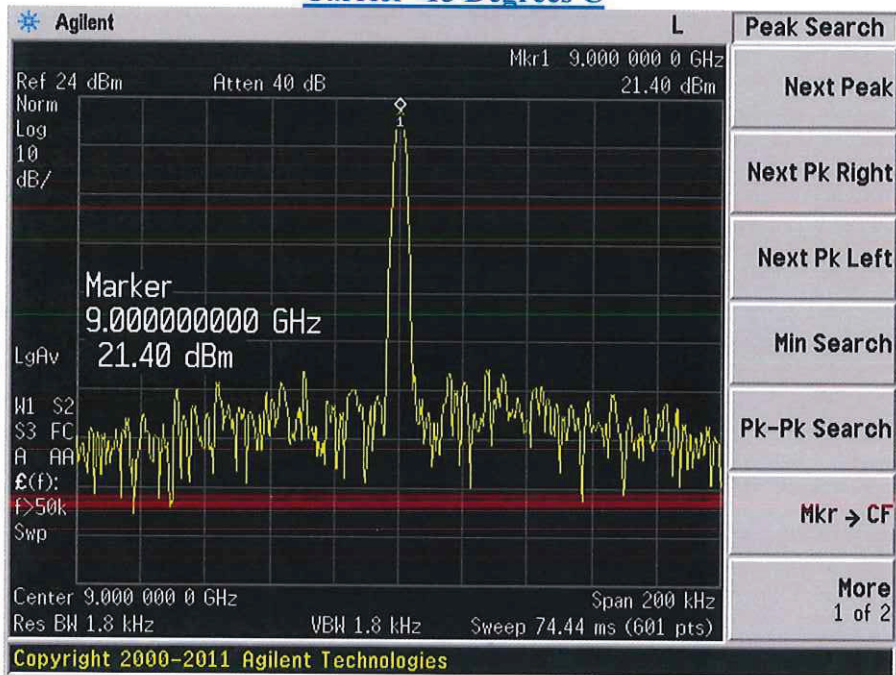
PL23999/1849



Carrier +25 Degrees C



Carrier -15 Degrees C



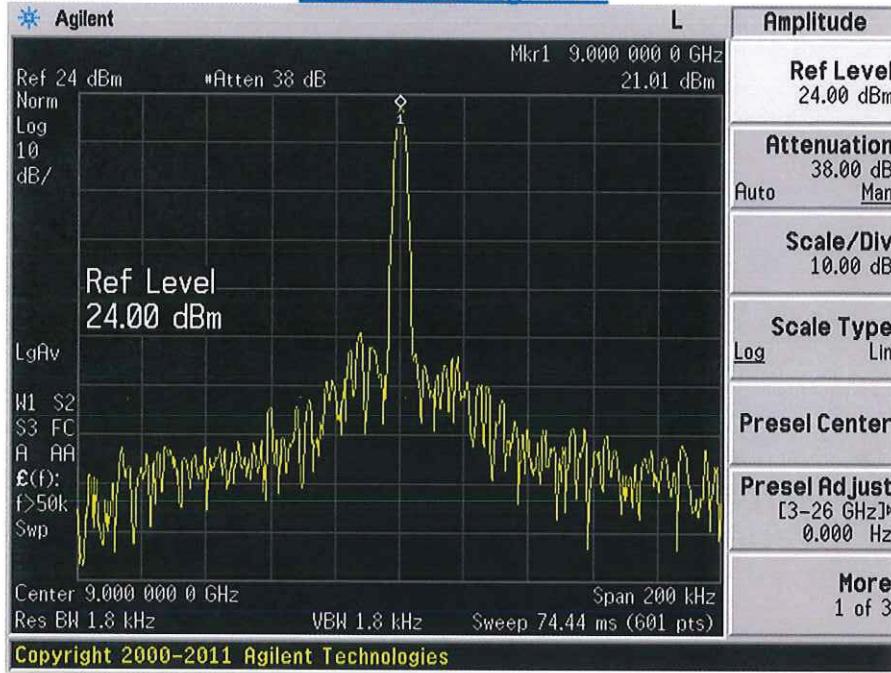




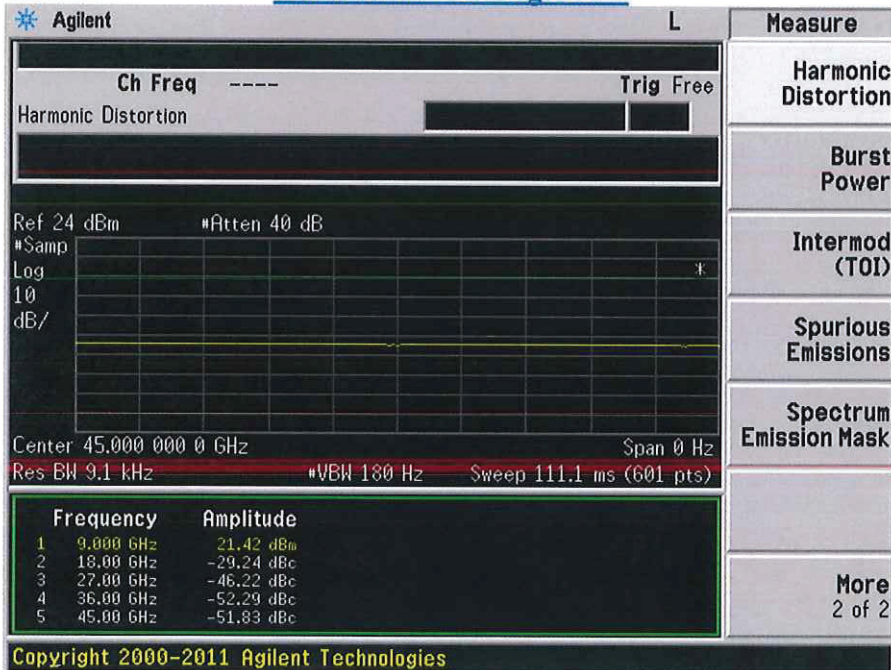
**TEMPERATURE TEST DATA  
ON  
PLO-9G-CD-1**

PL23999/1849

Carrier +85 Degrees C



Harmonics +25 Degrees C





**TEMPERATURE TEST DATA  
ON  
PLO-9G-CD-1**

PL23999/1849

Harmonics -15 Degrees C

<p><b>Agilent</b> <span style="float: right;">L</span></p> <hr/> <p style="text-align: center;"><b>Ch Freq</b> ----- <b>Trig Free</b></p> <p>Harmonic Distortion</p> <hr/> <p>Ref -26.99 dBm    #Atten 38 dB</p> <p>#Samp</p> <p>Log</p> <p>10</p> <p>dB/</p> <hr/> <p>Center 36.000 000 0 GHz <span style="float: right;">Span 0 Hz</span></p> <p>Res BW 7.5 kHz <span style="margin-left: 100px;">#VBW 180 Hz</span> <span style="float: right;">Sweep 111.1 ms (601 pts)</span></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr><td>1</td><td>9.000 GHz    -21.25 dBm</td></tr> <tr><td>2</td><td>18.00 GHz    -28.88 dBc</td></tr> <tr><td>3</td><td>27.00 GHz    -45.81 dBc</td></tr> <tr><td>4</td><td>36.00 GHz    -52.06 dBc</td></tr> <tr><td>5</td><td>45.00 GHz    -51.26 dBc</td></tr> </tbody> </table>	Frequency	Amplitude	1	9.000 GHz    -21.25 dBm	2	18.00 GHz    -28.88 dBc	3	27.00 GHz    -45.81 dBc	4	36.00 GHz    -52.06 dBc	5	45.00 GHz    -51.26 dBc	<p><b>Meas Setup</b></p> <p><b>Avg Number</b> On 10 Off Off</p> <p><b>Avg Mode</b> Exp Repeat</p> <p><b>Harmonics</b> 5</p> <p><b>ST / Harmonic</b> 111.1 ms Auto Man</p> <p><b>Range Table</b> On Off</p> <p><b>Range Table</b></p> <p><b>Optimize Ref Level</b></p>
Frequency	Amplitude												
1	9.000 GHz    -21.25 dBm												
2	18.00 GHz    -28.88 dBc												
3	27.00 GHz    -45.81 dBc												
4	36.00 GHz    -52.06 dBc												
5	45.00 GHz    -51.26 dBc												
Copyright 2000-2011 Agilent Technologies													

Harmonics +85 Degrees C

<p><b>Agilent</b> <span style="float: right;">L</span></p> <hr/> <p style="text-align: center;"><b>Ch Freq</b> ----- <b>Trig Free</b></p> <p>Harmonic Distortion</p> <hr/> <p>Ref -22.09 dBm    #Atten 34 dB</p> <p>#Samp</p> <p>Log</p> <p>10</p> <p>dB/</p> <hr/> <p>Center 45.000 000 0 GHz <span style="float: right;">Span 0 Hz</span></p> <p>Res BW 9.1 kHz <span style="margin-left: 100px;">#VBW 180 Hz</span> <span style="float: right;">Sweep 111.1 ms (601 pts)</span></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency</th> <th>Amplitude</th> </tr> </thead> <tbody> <tr><td>1</td><td>9.000 GHz    21.39 dBm</td></tr> <tr><td>2</td><td>18.00 GHz    -28.86 dBc</td></tr> <tr><td>3</td><td>27.00 GHz    -45.76 dBc</td></tr> <tr><td>4</td><td>36.00 GHz    -51.25 dBc</td></tr> <tr><td>5</td><td>45.00 GHz    -51.43 dBc</td></tr> </tbody> </table>	Frequency	Amplitude	1	9.000 GHz    21.39 dBm	2	18.00 GHz    -28.86 dBc	3	27.00 GHz    -45.76 dBc	4	36.00 GHz    -51.25 dBc	5	45.00 GHz    -51.43 dBc	<p><b>Measure</b></p> <p><b>Harmonic Distortion</b></p> <p><b>Burst Power</b></p> <p><b>Intermod (TOI)</b></p> <p><b>Spurious Emissions</b></p> <p><b>Spectrum Emission Mask</b></p> <p><b>More</b> 2 of 2</p>
Frequency	Amplitude												
1	9.000 GHz    21.39 dBm												
2	18.00 GHz    -28.86 dBc												
3	27.00 GHz    -45.76 dBc												
4	36.00 GHz    -51.25 dBc												
5	45.00 GHz    -51.43 dBc												
Copyright 2000-2011 Agilent Technologies													

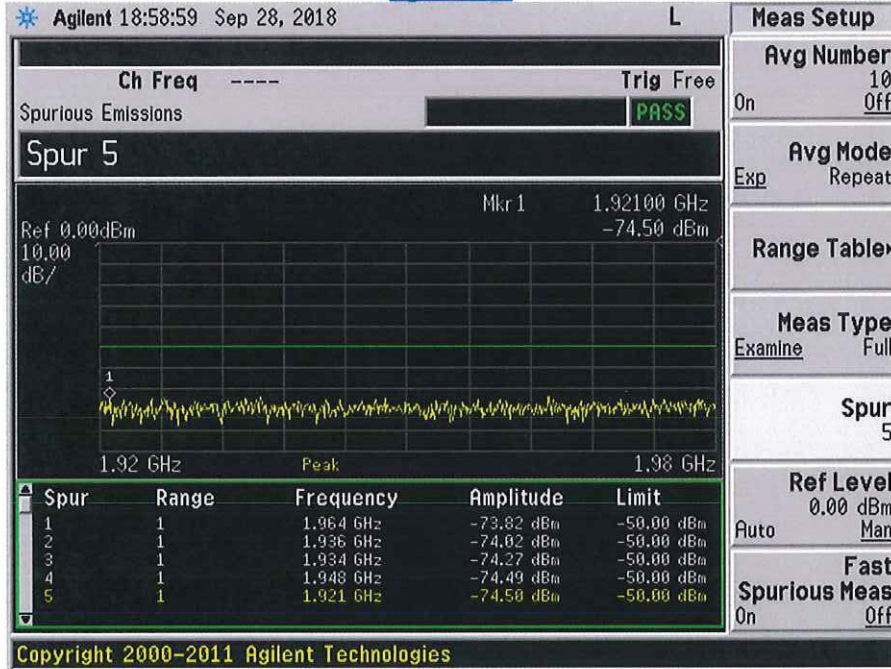




**TEMPERATURE TEST DATA  
ON  
PLO-9G-CD-1**

PL23999/1849

Spurious



Phase Noise

