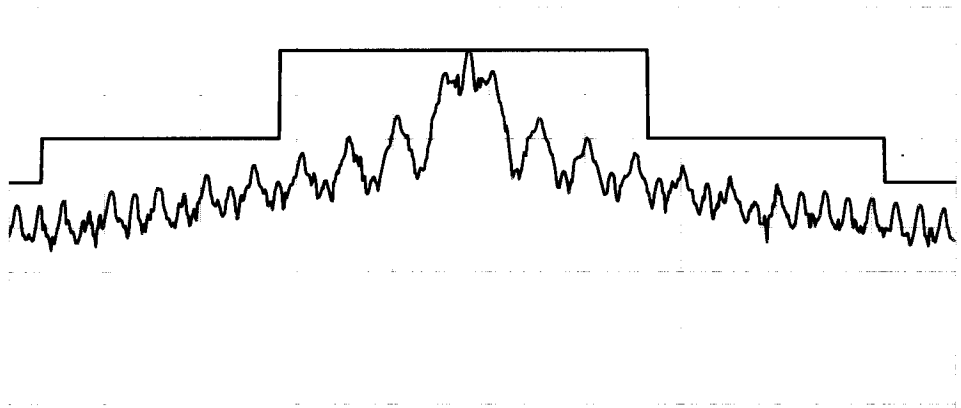
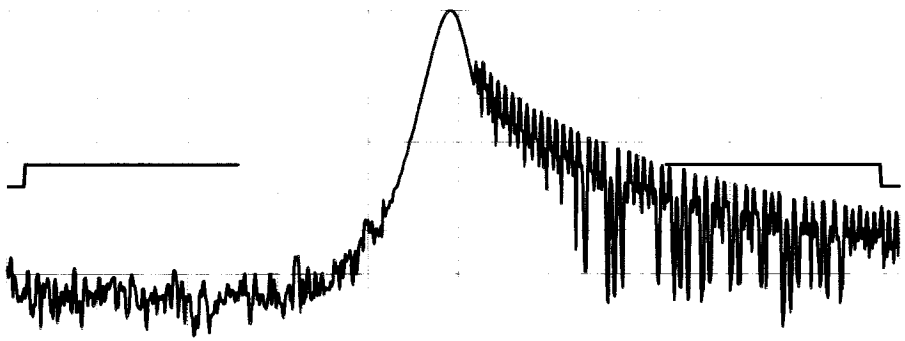
ACR Electronics, Inc.
RLB35
7
Certification VSWR
406 MHz
55 °C

CF : 406,025 MHz SP : 16 KHz



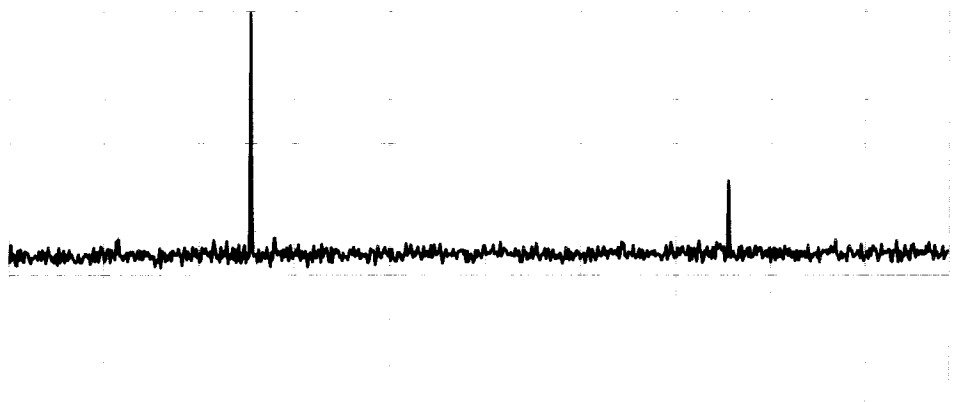
Rb : 0,1 KHz 10 dB/div. St : 4,8 S

CF : 406,025 MHz SP : 50 KHz



Rb : 1 KHz 10 dB/div. St : 0,305 S

CF : 600 MHz Delta : -38,3 dB SP : 800000 KHz



Rb : 100 KHz 10 dB/div. St : 0,24 S

SELF-TEST MODE CONTROL ON
RLB35 ACR Electronics, Inc.
N° 7

at -40° C, 22° C and 55° C

Message at -40°C

Manufacturer	ACR
Beacon model	RLB35
Serial number	7
Date of test	25 Apr 2001
Temperature	-40,0
Message received	FFFED096EE2EC0017FDFFC0A6D37
Frame synchro. pattern	011010000

Total transmission time	> 434.6 ms	< 445.4 ms	439,46

Message at 22°C

Manufacturer	ACR
Beacon model	RLB35
Serial number	7
Date of test	18 Apr 2001
Temperature	22,3
Message received	FFFED096EE2EC0017FDFFC0A6D37
Frame synchro. pattern	011010000

Total transmission time	> 434.6 ms	< 445.4 ms	439,54

Message at 55 °C

Manufacturer	ACR
Beacon model	RLB35
Serial number	7
Date of test	19 Apr 2001
Temperature	55,8
Message received	FFFED096EE2EC0017FDFFC0A6D37
Frame synchro. pattern	011010000

Total transmission time	> 434.6 ms	< 445.4 ms	439,53

406 MHz BEACON SELF-TEST CHARACTERISTICS

406 MHz beacon Model(s) : RLB35

	Answer (X) Yes	No
1. Does beacon have a self-test mode ?	☑	☐
If yes :		
• does self-test have a separate switch position ?	☑	☐
• does self-test switch automatically return to normal position when released ? if not, how long until the first "distress" message is emitted :	☑	☐
• does self-test transmit a 406 MHz signal ?	☑	☐
if yes :		
- unmodulated signal only	☐	☑
- normal data, but with inverted frame synchronization pattern	☑	☐
- 1 burst only	☑	☐
• does self-test transmit a 121.5 MHz signal ?	☐	☑
if yes :		
- for less than 1 second	☐	☐
- continually while self-test switch is actived	☐	☐
- other (please specify) :	☐	
• does self-test transmit any other frequency (e.g. 243 MHz) ?	☐	☑
2. Result of self-test is indicated by :		
• pass/fail display indicator light	☑	☐
• strobe light flash	☑	☐
• other (please specify) :	☐	
3. Can the self-test be performed without removing the beacon from its mounting bracket ?	☑	☐
4. What parameters are internally tested by the self-test ?		
• battery voltage	☑	☐
• RF power	☑	☐
• approximate RF frequency	☑	☐
• phase locked loop	☑	☐
• other (please specify) : EEPROM and GPS	☑	
5. Do the above characteristics apply to this beacon model :		
• **for all countries where beacon is sold ,** if no, please specify :	☑	☐
• **for all production serial numbers ?** if no, specify :	☑	☐

6. Comments

THERMAL SHOCK TEST RESULT ON
RLB35 ACR Electronics, Inc.
N° 7

55°C to 22°C

Temperature Soak : 55°C
Temperature Measure : 22°C

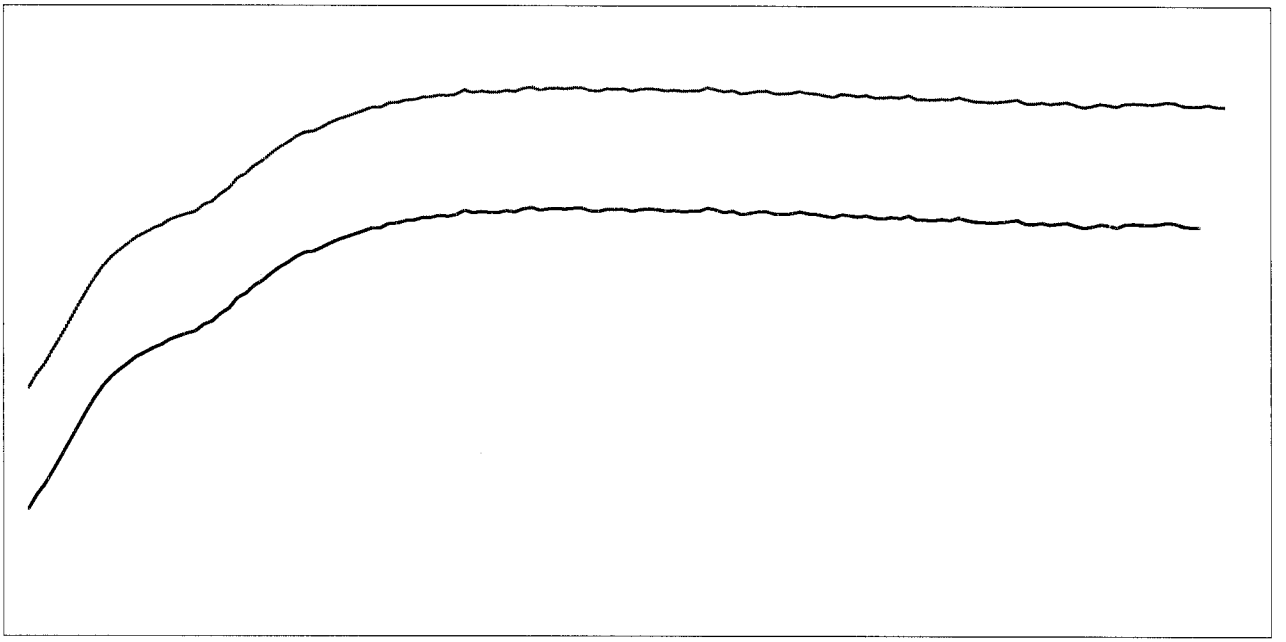
No	Δ Frequency (Hz)	Temp. (°C)	P406 (dBm)	P121.5 (dBm)
1	49501,35	55,0	37,5	17,6
2	49501,26	23,9	37,6	17,6
3	49500,96	24,0	37,7	17,7
4	49500,97	23,9	37,6	17,6
5	49501,08	24,0	37,7	17,7
6	49501,15	23,9	37,7	17,7
7	49501,28	24,0	37,7	17,7
8	49501,32	23,9	37,7	17,7
9	49501,68	24,0	37,6	17,7
10	49501,83	23,9	37,7	17,7
11	49502,12	24,0	37,7	17,7
12	49502,50	23,9	37,7	17,7
13	49502,81	24,0	37,7	17,7
14	49503,18	23,9	37,7	17,7
15	49503,58	24,0	37,7	17,7
16	49503,94	23,9	37,7	17,7
17	49504,36	24,0	37,7	17,7
18	49504,69	23,9	37,7	17,7

No	Temp.	Slope	Sigma	P406	Short term	P121.5
1	24,0	7,4E-10	9,8E-10	37,7	6,2E-11	17,8
18	24,3	1,0E-9	9,2E-10	37,6	1,4E-10	17,7
31	23,7	5,2E-10	3,3E-10	37,6	9,5E-11	17,9
61	24,1	8,4E-11	1,2E-10	37,6	9,6E-11	17,9
91	24,6	-2,2E-11	9,8E-11	37,6	1,4E-10	17,9
121	24,2	-3,3E-11	1,1E-10	37,5	1,4E-10	17,9

Beacon message at the end of Thermal Shock Test :
FFFE2F96EE2EC0017FDFFC0A6D3783E0F66C

Frequency variation

406024522



406024503

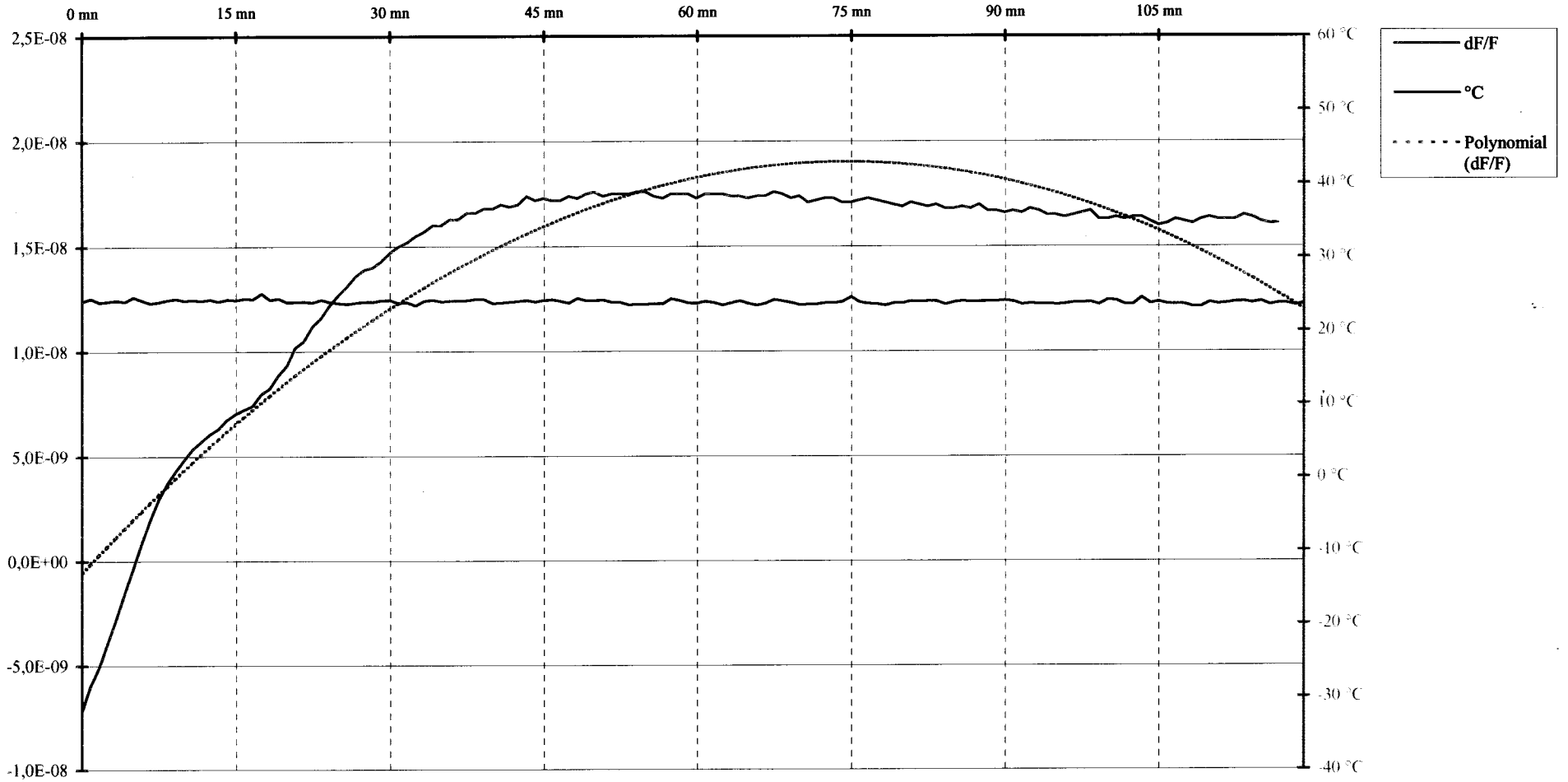
— Initial tracing — Smoothed tracing

THERMAL SHOCK TEST / 30 °C change (55 °C to 22 ° C)

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 19 Apr 2001
Time : 15:34:49

FREQUENCY VARIATION

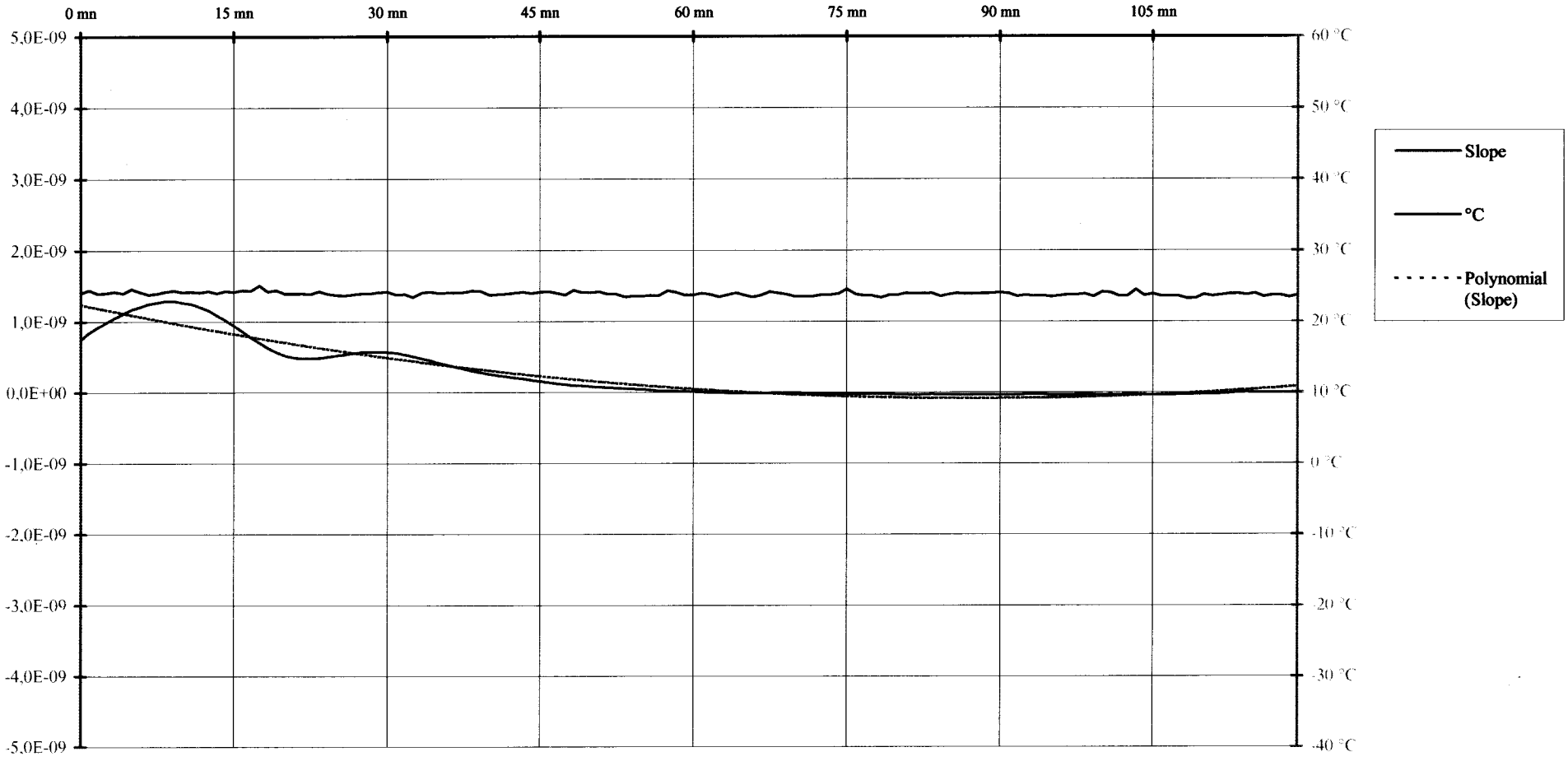


THERMAL SHOCK TEST / 30 °C change (55 °C to 22 ° C)

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 19 Apr 2001
Time : 15:34:49

MEDIUM TERM STABILITY : MEAN SLOPE /mn (-1,0E-9 to 1,0E-9)

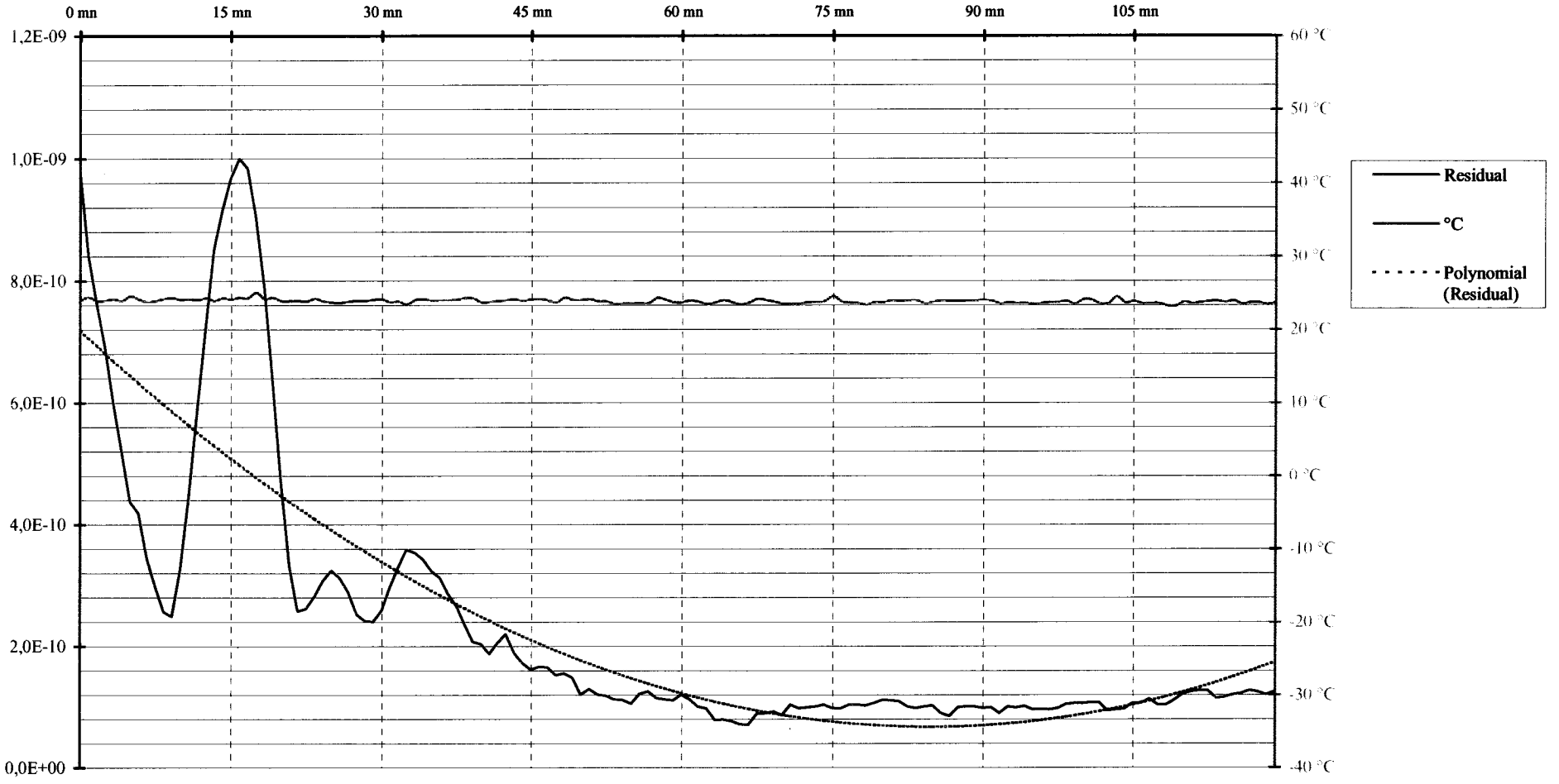


THERMAL SHOCK TEST / 30 °C change (55 °C to 22 ° C)

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 19 Apr 2001
Time : 15:34:49

MEDIUM TERM STABILITY : RESIDUAL (≤ 3,0E-9)

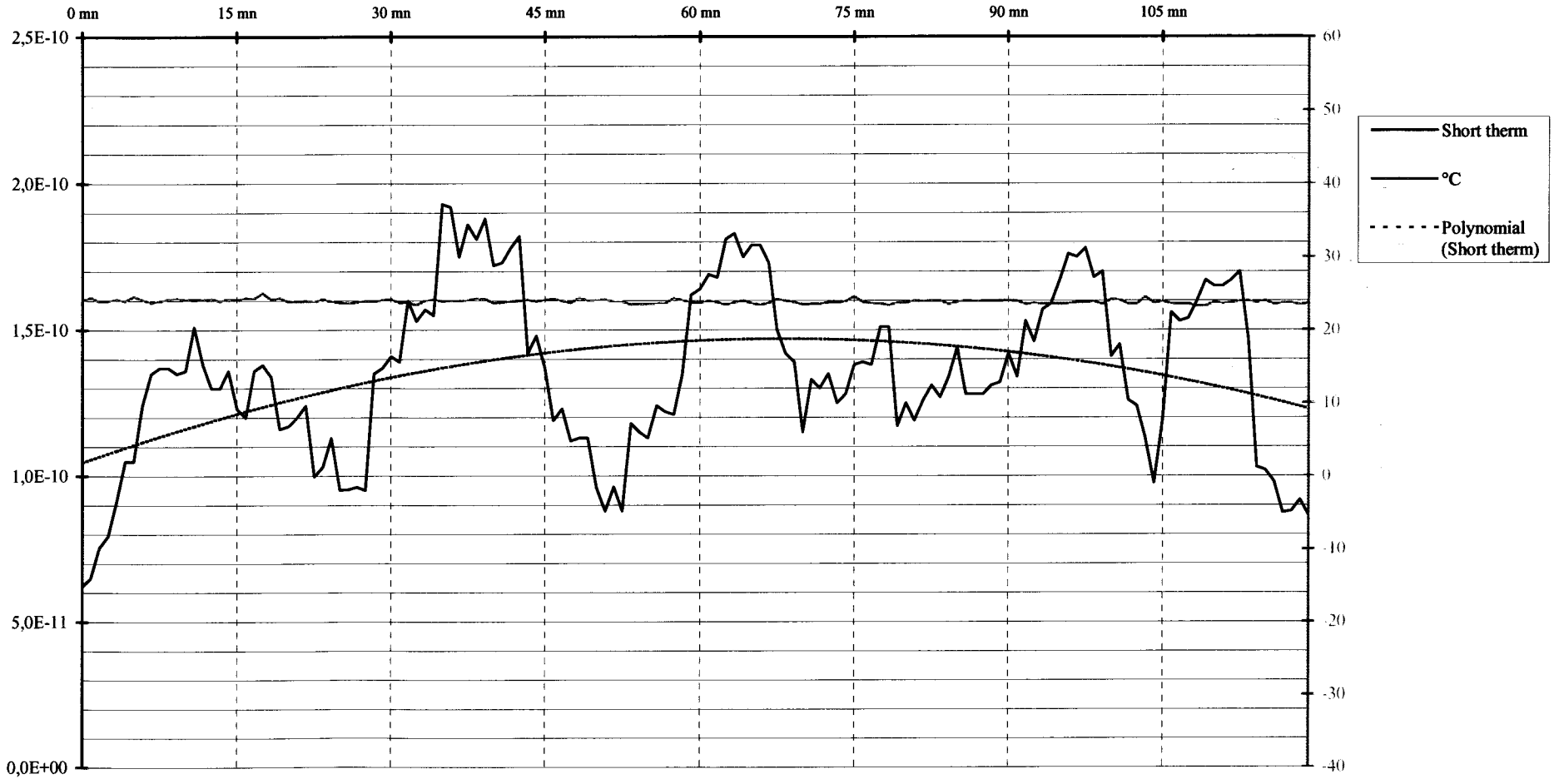


THERMAL SHOCK TEST / 30 °C change (55 °C to 22 ° C)

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 19 Apr 2001
Time : 15:34:49

SHORT TERM STABILITY /100 mS (≤ 2,0E-9)

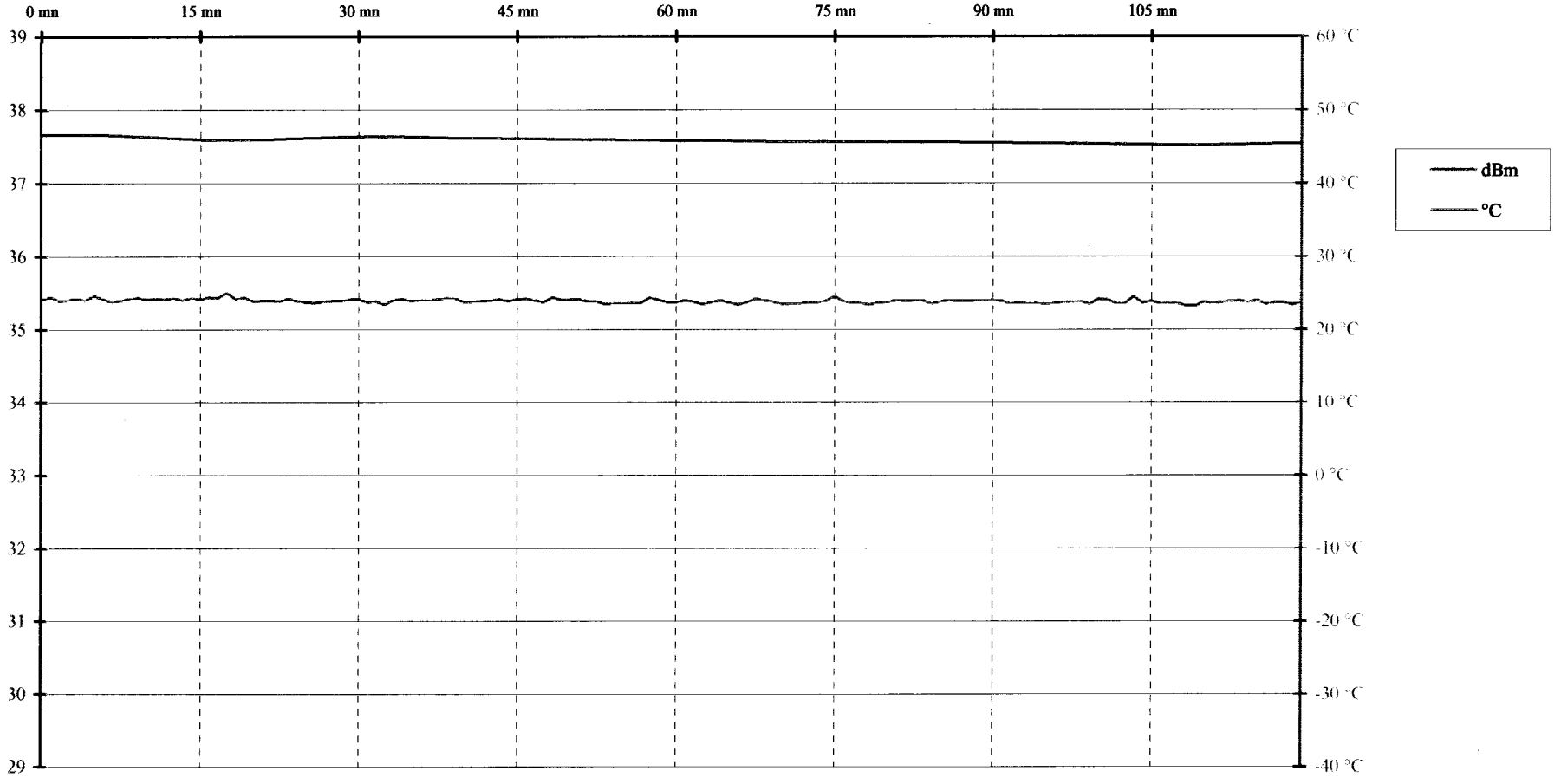


THERMAL SHOCK TEST / 30 °C change (55 °C to 22 ° C)

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 19 Apr 2001
Time : 15:34:49

OUTPUT POWER (35 to 39 dBm)



OPERATING LIFE TEST RESULTS ON
RLB35 ACR Electronics, Inc.
N° 7

-40 °C

No	Δ Frequency (Hz)	Temp. (°C)	P406 (dBm)	P121.5 (dBm)
1	49554,64	-38,2	36,5	18,5
2	49553,63	-38,5	36,5	18,6
3	49553,03	-38,7	36,6	18,5
4	49552,49	-38,7	36,6	18,5
5	49551,90	-38,8	36,6	18,5
6	49551,36	-38,8	36,6	18,5
7	49550,91	-38,8	36,6	18,5
8	49550,44	-38,8	36,6	18,5
9	49550,01	-38,8	36,6	18,5
10	49549,64	-38,9	36,6	18,5
11	49549,40	-38,9	36,6	18,5
12	49549,12	-38,8	36,6	18,5
13	49548,93	-38,8	36,6	18,5
14	49548,60	-38,8	36,6	18,5
15	49548,52	-38,8	36,6	18,5
16	49548,36	-38,8	36,6	18,5
17	49548,25	-38,8	36,6	18,5
18	49548,09	-38,8	36,6	18,5

No	Temp.	Slope	Sigma	P406	Short term	P121.5
1	-38,8	-9,6E-10	1,1E-09	36,6	7,0E-11	18,5
18	-38,9	-2,5E-10	2,6E-10	36,6	1,1E-10	18,5
31	-38,9	7,1E-11	1,3E-10	36,6	1,6E-10	18,5
61	-39,0	1,0E-10	8,8E-11	36,6	1,1E-10	18,5
91	-39,1	5,9E-11	1,5E-10	36,7	7,6E-11	18,5
121	-39,1	2,0E-11	1,6E-10	36,7	8,2E-11	18,5
151	-39,1	4,4E-11	8,6E-11	36,7	1,1E-10	18,5
181	-39,2	-7,2E-11	1,8E-10	36,7	9,2E-11	18,5
211	-39,5	1,9E-11	6,6E-11	36,7	1,5E-10	18,5
241	-40,0	-1,3E-11	1,2E-10	36,7	1,2E-10	18,5
271	-40,4	8,7E-11	4,7E-11	36,7	9,6E-11	18,5
301	-40,6	1,0E-11	7,3E-11	36,7	7,6E-11	18,5
331	-40,8	-8,3E-11	1,8E-10	36,7	8,1E-11	18,5
361	-40,9	2,4E-11	5,2E-11	36,7	7,5E-11	18,5
391	-40,8	-4,2E-12	8,8E-11	36,7	7,2E-11	18,5
421	-40,7	-3,5E-10	9,8E-10	36,8	1,2E-10	18,5
451	-40,5	9,2E-11	8,5E-11	36,8	1,3E-10	18,5
481	-40,4	1,2E-12	8,4E-11	36,8	1,1E-10	18,5
511	-40,4	-6,5E-11	1,8E-10	36,8	9,4E-11	18,5
541	-40,3	1,4E-11	9,2E-11	36,8	1,1E-10	18,5
571	-40,1	-1,9E-11	1,1E-10	36,8	1,6E-10	18,5
601	-39,9	-1,4E-11	6,9E-11	36,8	9,2E-11	18,5
631	-39,8	3,9E-12	9,3E-11	36,8	1,0E-10	18,5
661	-39,7	-1,2E-12	6,6E-11	36,8	1,2E-10	18,5
691	-39,6	-1,2E-11	7,4E-11	36,8	7,4E-11	18,5
721	-39,4	-1,2E-11	6,7E-11	36,8	9,0E-11	18,5
751	-39,3	9,4E-11	1,4E-10	36,8	1,1E-10	18,5
781	-39,2	3,4E-11	5,0E-11	36,8	9,9E-11	18,5
811	-39,1	4,7E-12	6,7E-11	36,8	1,1E-10	18,5
841	-39,0	-9,6E-12	7,1E-11	36,8	8,8E-11	18,5

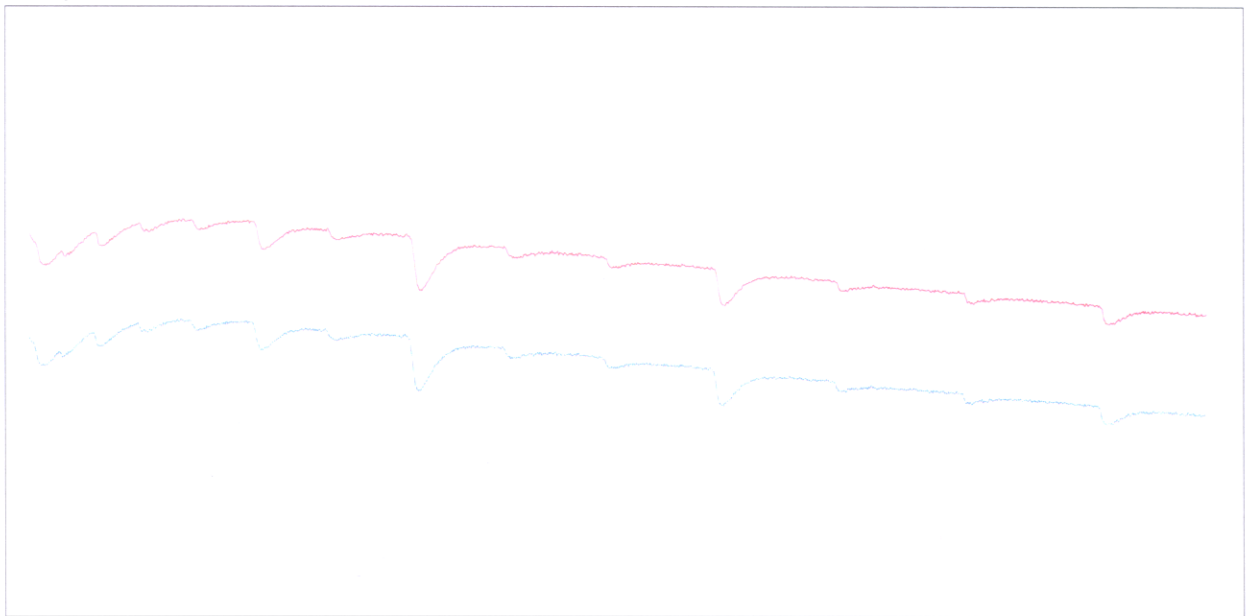
No	Temp.	Slope	Sigma	P406	Short term	P121.5	
871	-38,9	-5,3E-11	2,3E-10	36,8	1,1E-10	18,5	
901	-39,0	3,0E-12	1,0E-10	36,8	5,3E-11	18,5	
931	-39,1	-6,2E-12	5,9E-11	36,8	6,1E-11	18,5	
961	-39,2	-9,5E-12	7,2E-11	36,8	1,3E-10	18,5	
991	-39,2	-3,0E-12	6,9E-11	36,8	1,2E-10	18,5	
1021	-39,3	8,9E-12	9,3E-11	36,8	1,2E-10	18,5	
1051	-39,3	-3,8E-12	6,5E-11	36,8	1,1E-10	18,5	
1081	-39,3	-8,8E-12	8,7E-11	36,8	1,1E-10	18,5	
1111	-39,2	-1,0E-11	6,5E-11	36,9	1,0E-10	18,5	
1141	-39,2	-6,3E-11	2,9E-10	36,9	9,2E-11	18,5	
1171	-39,3	5,0E-11	8,9E-11	36,9	1,2E-10	18,5	
1201	-39,3	4,1E-12	8,6E-11	36,9	1,1E-10	18,5	
1231	-39,3	-1,7E-11	7,0E-11	36,9	1,2E-10	18,5	
1261	-39,4	-3,7E-12	7,2E-11	36,9	9,3E-11	18,5	
1291	-39,3	-9,6E-12	9,1E-11	36,9	9,7E-11	18,5	
1321	-39,3	2,4E-11	7,8E-11	36,9	1,2E-10	18,5	
1351	-39,3	-5,2E-12	6,2E-11	36,9	1,1E-10	18,5	
1381	-39,3	-4,5E-12	5,7E-11	36,9	9,4E-11	18,5	
1411	-39,4	-6,5E-12	7,4E-11	36,9	1,0E-10	18,5	
1441	-39,3	-1,0E-11	7,4E-11	36,9	7,5E-11	18,5	
1471	-39,3	-2,6E-10	4,3E-10	36,9	1,0E-10	18,5	
1501	-39,3	6,1E-11	7,0E-11	36,9	1,6E-10	18,5	
1531	-39,3	5,9E-12	5,7E-11	36,9	1,0E-10	18,5	
1561	-39,2	-1,1E-11	8,0E-11	36,9	1,1E-10	18,5	
1591	-39,2	-1,8E-11	5,6E-11	36,9	9,5E-11	18,5	
1621	-39,2	-9,1E-12	7,1E-11	36,9	9,8E-11	18,5	
1651	-39,3	-8,5E-11	1,9E-10	36,9	1,2E-10	18,5	
1681	-39,5	6,3E-12	5,5E-11	36,9	9,0E-11	18,5	
1711	-39,9	2,4E-12	1,1E-10	36,9	9,8E-11	18,5	
1741	-40,1	-1,5E-11	9,5E-11	36,9	1,1E-10	18,5	24h
1771	-40,3	-9,7E-12	7,2E-11	36,9	1,3E-10	18,5	
1801	-40,5	-8,0E-12	6,1E-11	36,9	8,3E-11	18,5	
1831	-40,7	-7,7E-11	2,2E-10	36,9	9,5E-11	18,5	
1861	-40,9	9,7E-12	5,5E-11	36,9	7,6E-11	18,5	
1891	-41,1	4,3E-13	5,7E-11	36,9	1,1E-10	18,5	
1921	-41,2	-7,5E-12	1,0E-10	36,9	7,9E-11	18,5	
1951	-41,3	1,6E-12	8,8E-11	36,9	1,2E-10	18,5	
1981	-41,4	-8,9E-12	8,7E-11	36,9	1,2E-10	18,5	
2011	-41,5	-3,8E-12	1,1E-10	36,9	9,7E-11	18,5	
2041	-41,5	1,8E-11	3,3E-10	36,9	1,0E-10	18,5	
2071	-41,3	2,1E-11	9,9E-11	36,9	7,6E-11	18,5	
2101	-41,1	-4,7E-12	7,7E-11	36,8	1,4E-10	18,5	
2131	-40,9	-7,3E-12	8,2E-11	36,8	1,5E-10	18,5	
2161	-40,7	-7,4E-12	8,3E-11	36,8	8,1E-11	18,5	
2191	-40,5	-7,7E-12	6,5E-11	36,8	1,1E-10	18,5	
2221	-40,3	-7,0E-12	8,1E-11	36,8	1,1E-10	18,5	
2251	-40,0	5,1E-11	1,8E-10	36,8	1,0E-10	18,5	
2281	-39,8	2,0E-11	8,5E-11	36,8	1,2E-10	18,5	
2311	-39,6	-4,1E-12	5,9E-11	36,8	1,3E-10	18,5	
2341	-39,4	-1,4E-11	8,1E-11	36,8	9,6E-11	18,5	
2371	-39,1	-4,9E-12	8,3E-11	36,8	9,9E-11	18,5	

No	Temp.	Slope	Sigma	P406	Short term	P121.5	
2401	-38,8	-1,1E-11	6,5E-11	36,8	1,0E-10	18,5	
2431	-38,6	3,7E-12	9,9E-11	36,8	1,0E-10	18,5	
2461	-38,4	-7,3E-11	2,0E-10	36,8	1,6E-10	18,5	
2491	-38,3	6,0E-12	6,9E-11	36,8	9,2E-11	18,5	
2521	-38,4	2,5E-11	5,8E-11	36,8	1,1E-10	18,5	
2551	-38,3	4,1E-12	4,9E-11	36,8	9,3E-11	18,5	
2581	-38,2	-1,1E-11	7,2E-11	36,8	1,1E-10	18,5	
2611	-38,1	-1,2E-12	7,9E-11	36,8	1,3E-10	18,5	
2641	-38,1	-1,2E-11	8,2E-11	36,8	1,1E-10	18,5	
2671	-38,0	-1,2E-11	7,1E-11	36,8	9,9E-11	18,5	
2701	-38,0	1,1E-12	6,4E-11	36,7	1,1E-10	18,5	
2731	-38,0	-9,0E-11	1,4E-10	36,7	9,3E-11	18,5	
2761	-38,2	1,6E-11	8,3E-11	36,7	7,2E-11	18,5	
2791	-38,4	4,3E-12	7,3E-11	36,7	1,4E-10	18,5	
2821	-38,3	-9,9E-12	8,5E-11	36,7	1,4E-10	18,5	
2851	-38,4	-1,1E-11	7,2E-11	36,7	1,2E-10	18,5	
2881	-38,5	1,9E-12	7,7E-11	36,7	9,0E-11	18,5	
2911	-38,7	-1,2E-11	8,6E-11	36,7	9,9E-11	18,5	
2941	-38,8	-1,2E-11	8,2E-11	36,6	7,6E-11	18,5	
2971	-38,9	-2,2E-10	5,1E-10	36,6	1,4E-10	18,5	
3001	-39,2	5,5E-11	8,9E-11	36,6	7,6E-11	18,4	
3031	-39,4	4,6E-12	9,1E-11	36,6	9,9E-11	18,4	
3061	-39,5	-6,0E-12	7,3E-11	36,5	1,5E-10	18,4	
3091	-39,5	-4,0E-12	6,3E-11	36,5	6,6E-11	18,4	
3121	-39,5	-1,0E-11	5,5E-11	36,5	1,2E-10	18,4	
3151	-39,5	-8,2E-12	7,7E-11	36,4	8,5E-11	18,4	
3181	-39,6	-1,3E-11	9,7E-11	36,4	9,4E-11	18,4	
3211	-39,5	-8,0E-12	6,3E-11	36,4	9,1E-11	18,4	
3241	-39,5	-5,1E-12	5,7E-11	36,3	1,1E-10	18,4	
3271	-39,6	-1,5E-11	7,4E-11	36,3	1,6E-10	18,4	
3301	-39,6	-8,0E-12	4,4E-11	36,3	2,2E-10	18,3	
3331	-39,5	-5,9E-12	6,4E-11	36,2	1,9E-10	18,3	
3361	-39,5	-2,6E-12	1,2E-10	36,2	1,2E-10	18,3	
3391	-39,4	-1,1E-11	5,3E-11	36,1	2,3E-10	18,3	
3421	-39,5	-9,7E-12	8,4E-11	36,0	1,6E-10	18,3	
3451	-39,7	-6,8E-13	7,0E-11	36,0	1,9E-10	18,3	48h
3481	-40,0	-4,2E-12	1,1E-10	35,9	2,0E-10	18,3	
3511	-40,3	-3,4E-12	6,2E-11	35,8	2,2E-10	18,3	
3541	-40,6	-1,8E-12	7,1E-11	35,7	2,1E-10	18,2	
3571	-40,8	-8,1E-12	6,9E-11	35,6	1,8E-10	18,2	
3601	-41,0	4,2E-12	7,3E-11	35,5	1,4E-10	18,2	
3631	-41,2	-7,6E-12	1,0E-10	35,4	1,5E-10	18,1	

Beacon message after 24 or 48 hours of Operating Lifetime Test :
FFFE2F96EE2EC0012C00221D917769FCB6D1

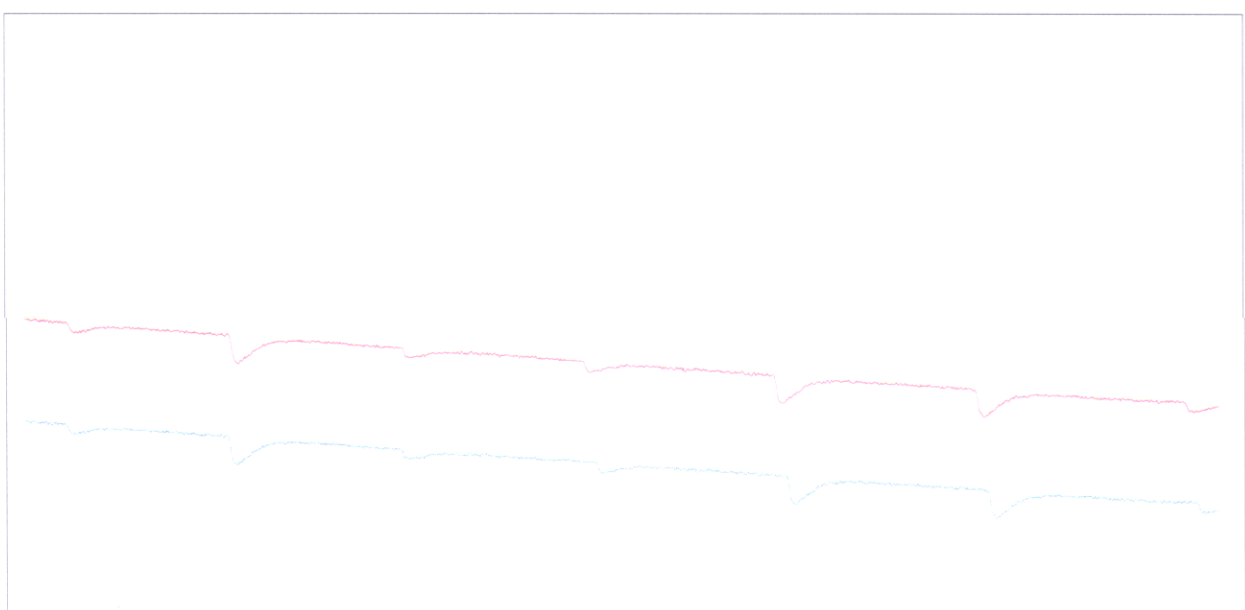
Frequency variation

406,024560 MHz



406,024538 MHz

406,024560 MHz



406,024538 MHz

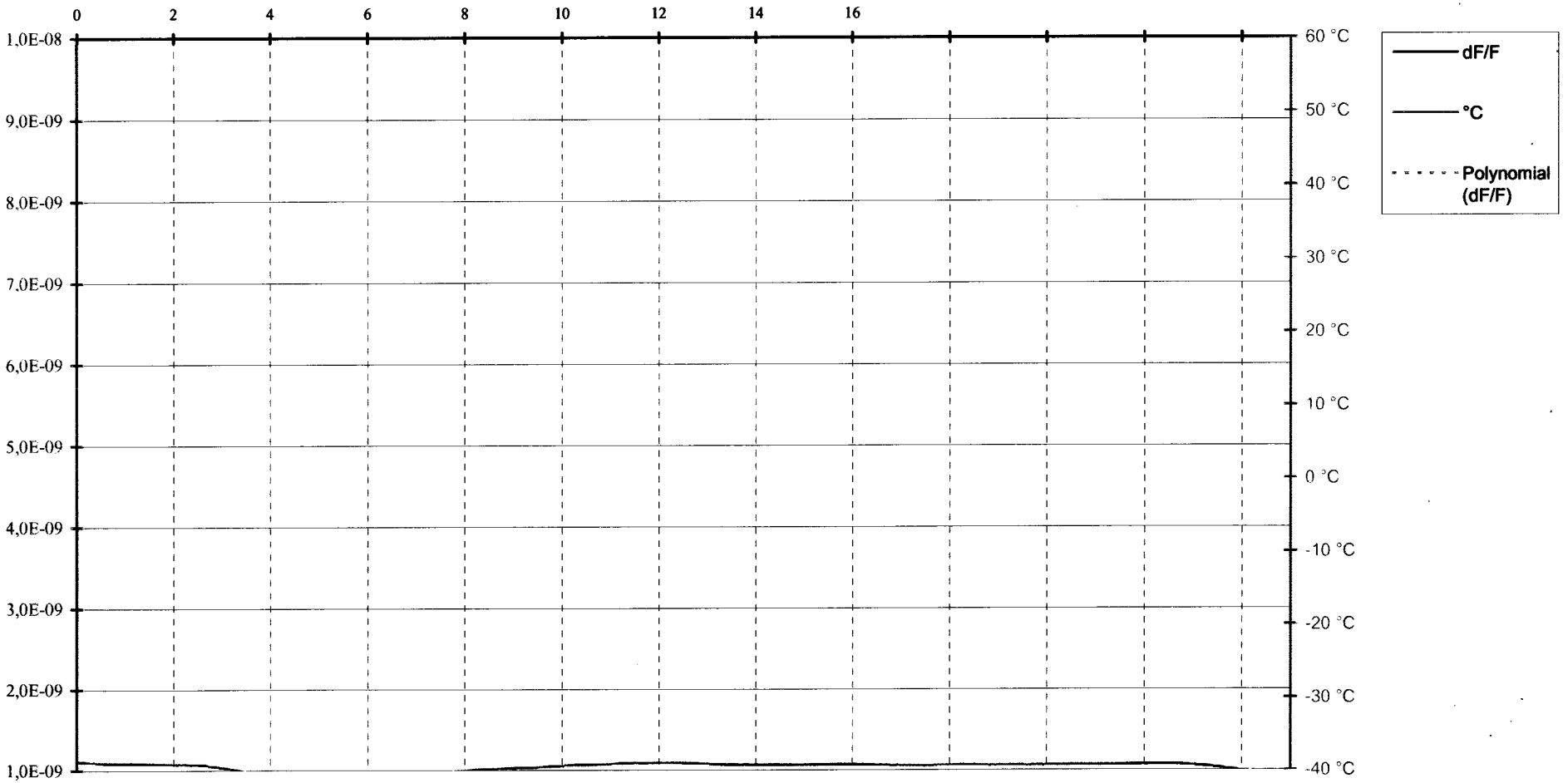
Initial tracing Smoothed tracing

LIFE TEST AT -40 °C

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 18/06/2001
Time : 08:03:06

FREQUENCY VARIATION



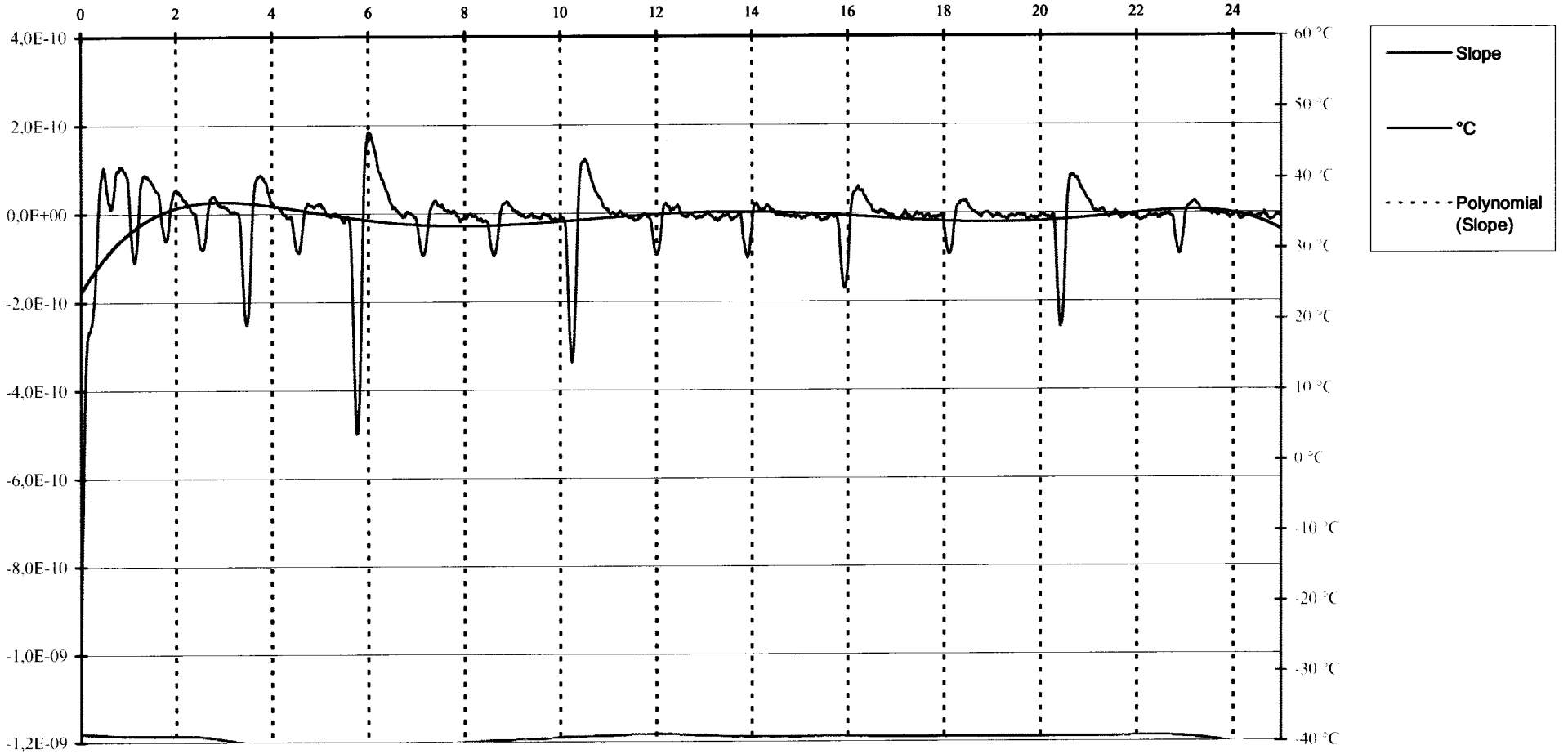
LIFE TEST AT -40 °C

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 18/06/2001
Time : 08:03:06

1800

MEDIUM TERM STABILITY : MEAN SLOPE /mn (-1,0E-9 to 1,0E-9)

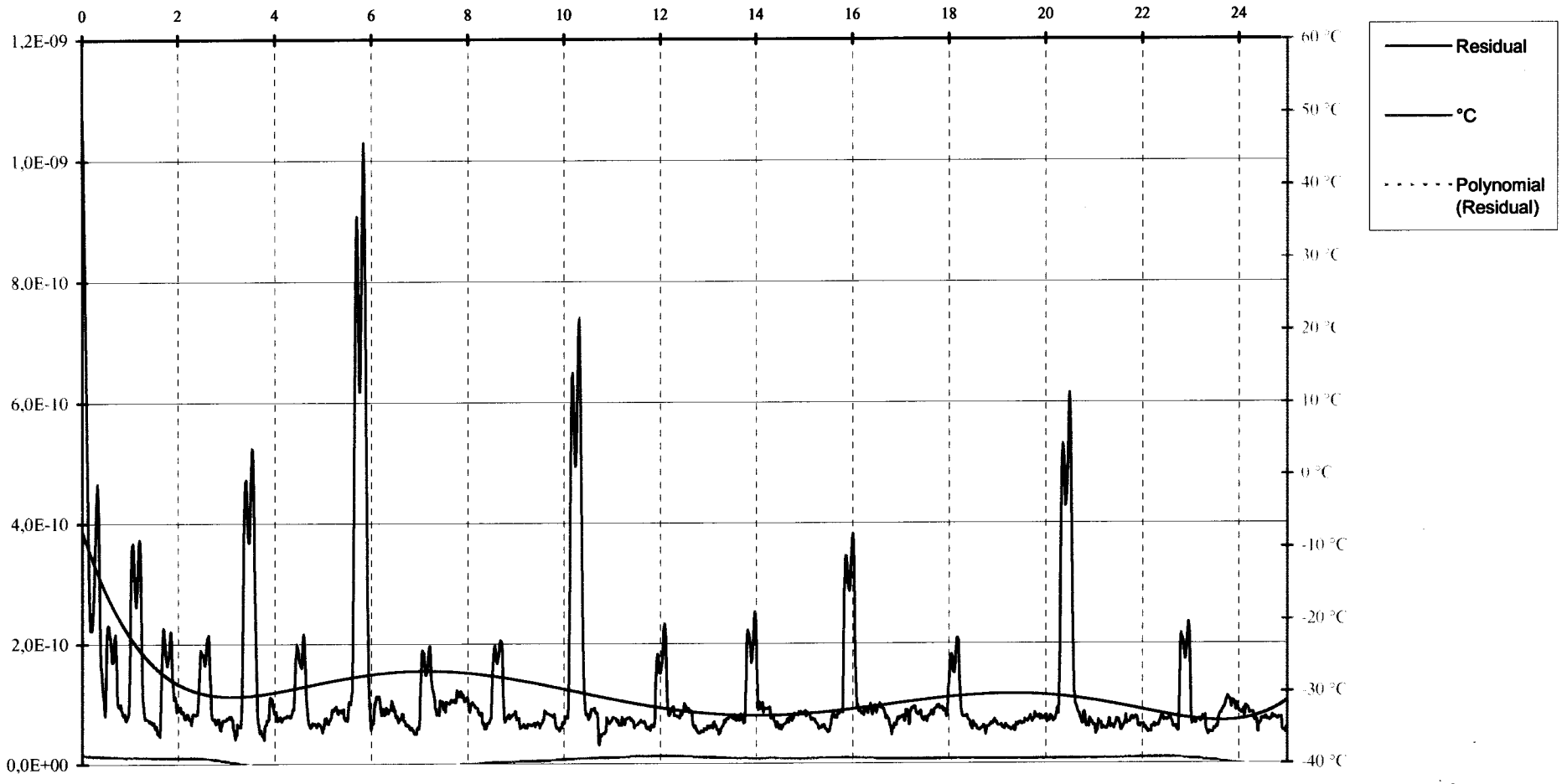


LIFE TEST AT -40 °C

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 18/06/2001
Time : 08:03:06

MEDIUM TERM STABILITY : RESIDUAL (≤ 3,0E-9)

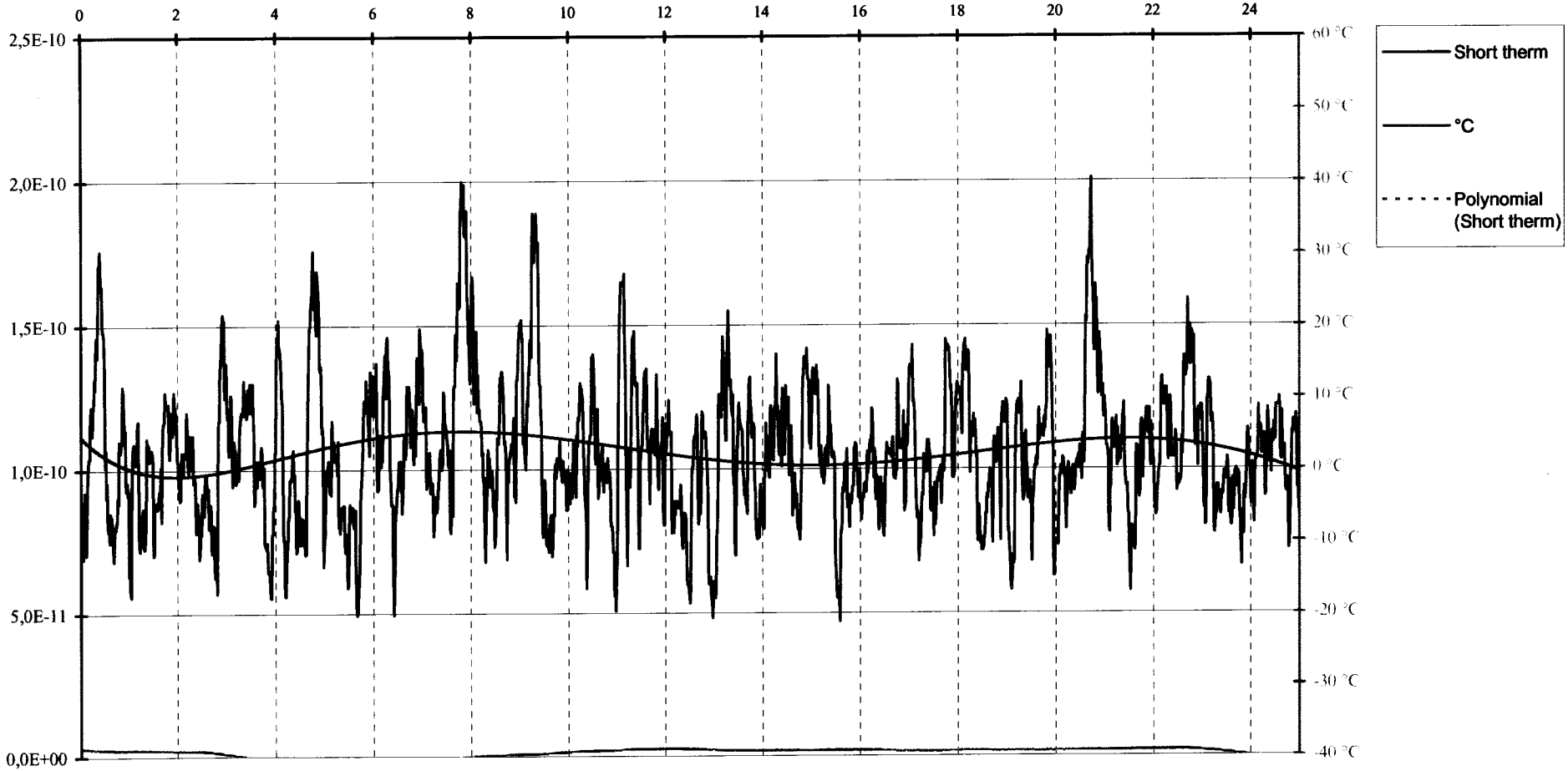


LIFE TEST AT -40 °C

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 18/06/2001
Time : 08:03:06

SHORT TERM STABILITY /100 mS (≤ 2,0E-9)

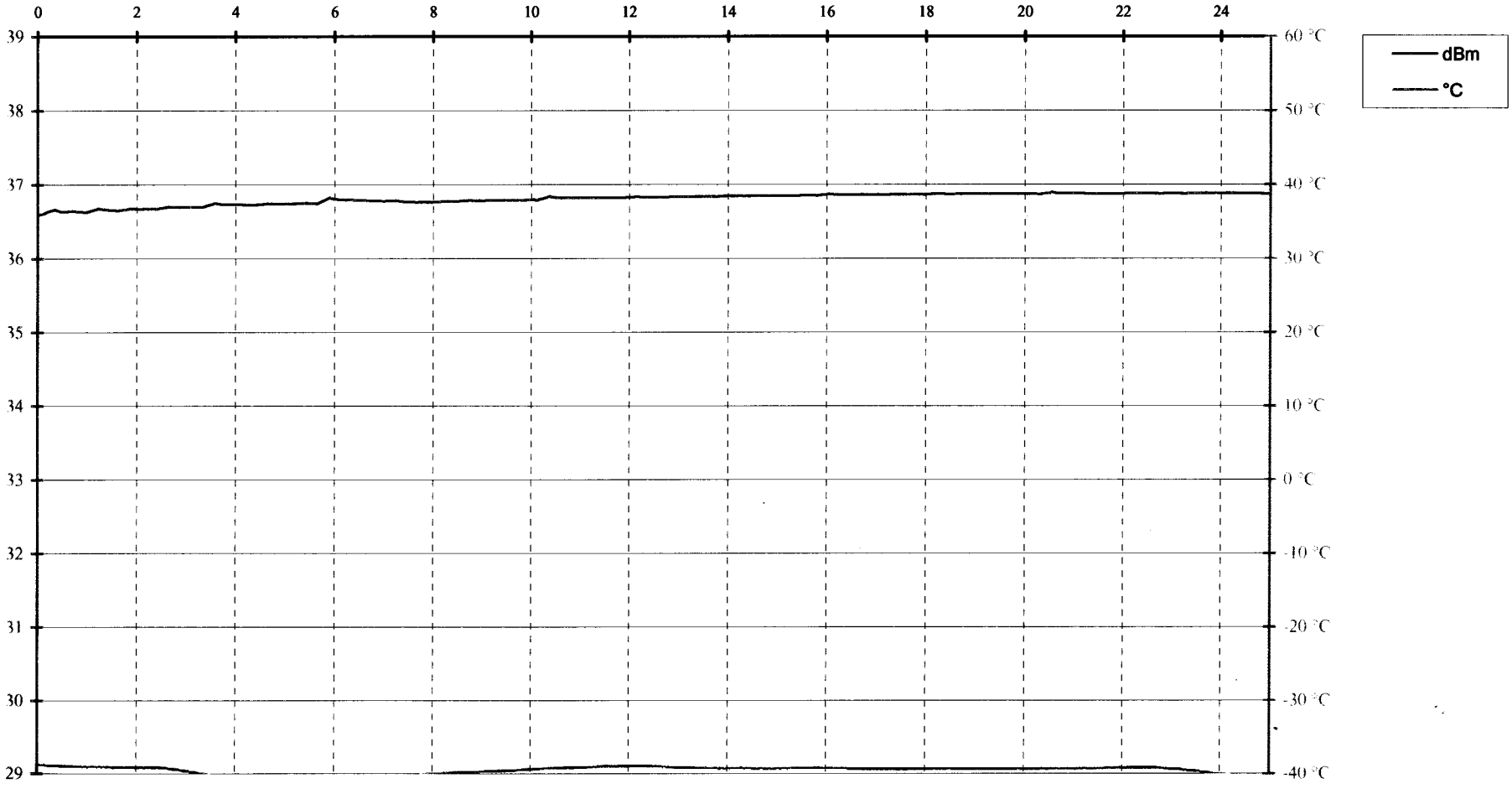


LIFE TEST AT -40 °C

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Numero : 7

Date : 18/06/2001
Time : 08:03:06

OUTPUT POWER (35 to 39 dBm)

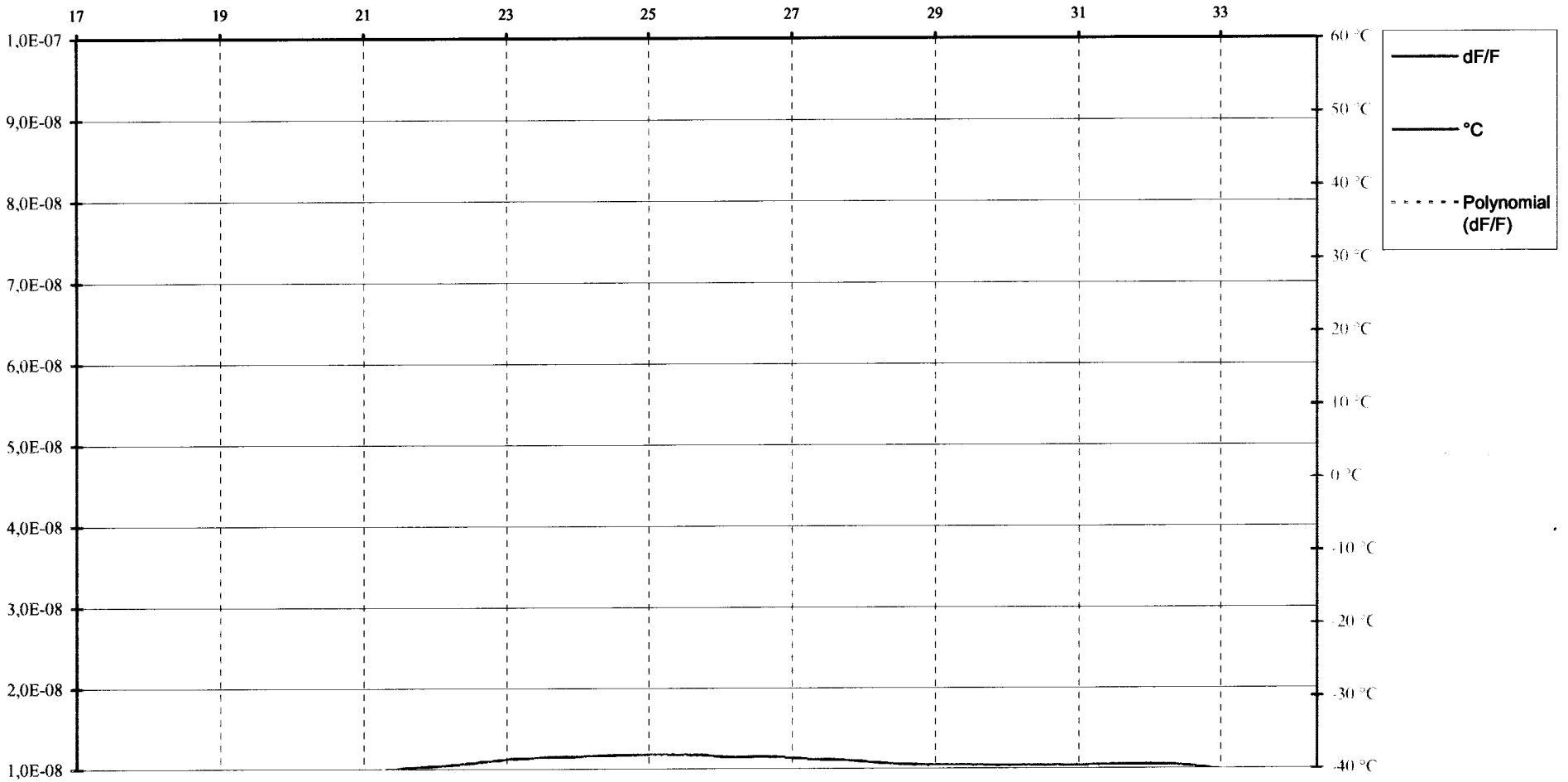


LIFE TEST AT -40 °C

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Numero : 7

Date : 18/06/2001
Time : 08:03:06

FREQUENCY VARIATION

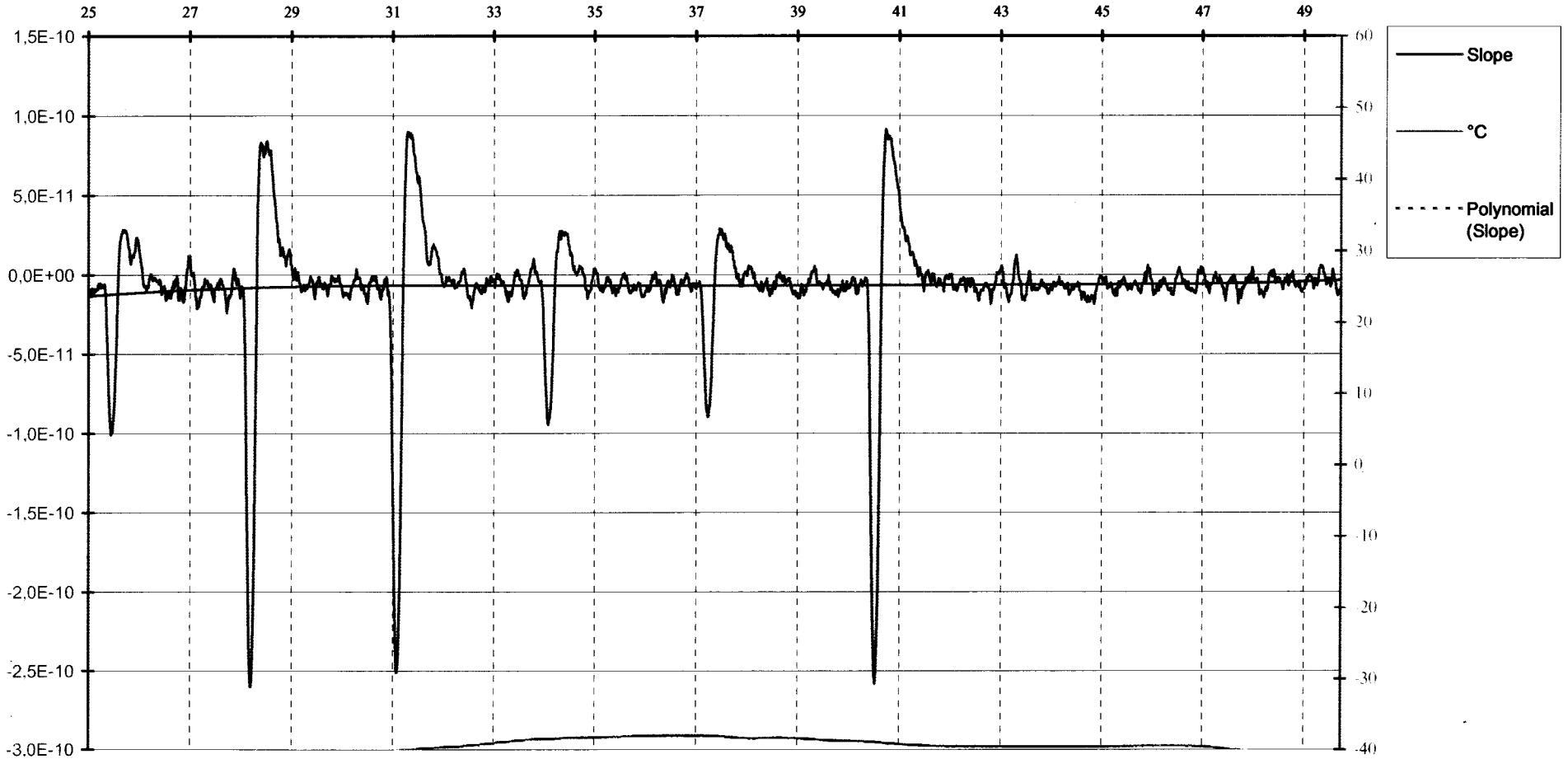


LIFE TEST AT -40 °C

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Numero : 7

Date : 18/06/2001
Time : 08:03:06

MEDIUM TERM STABILITY : MEAN SLOPE /mn (-1,0E-9 to 1,0E-9)

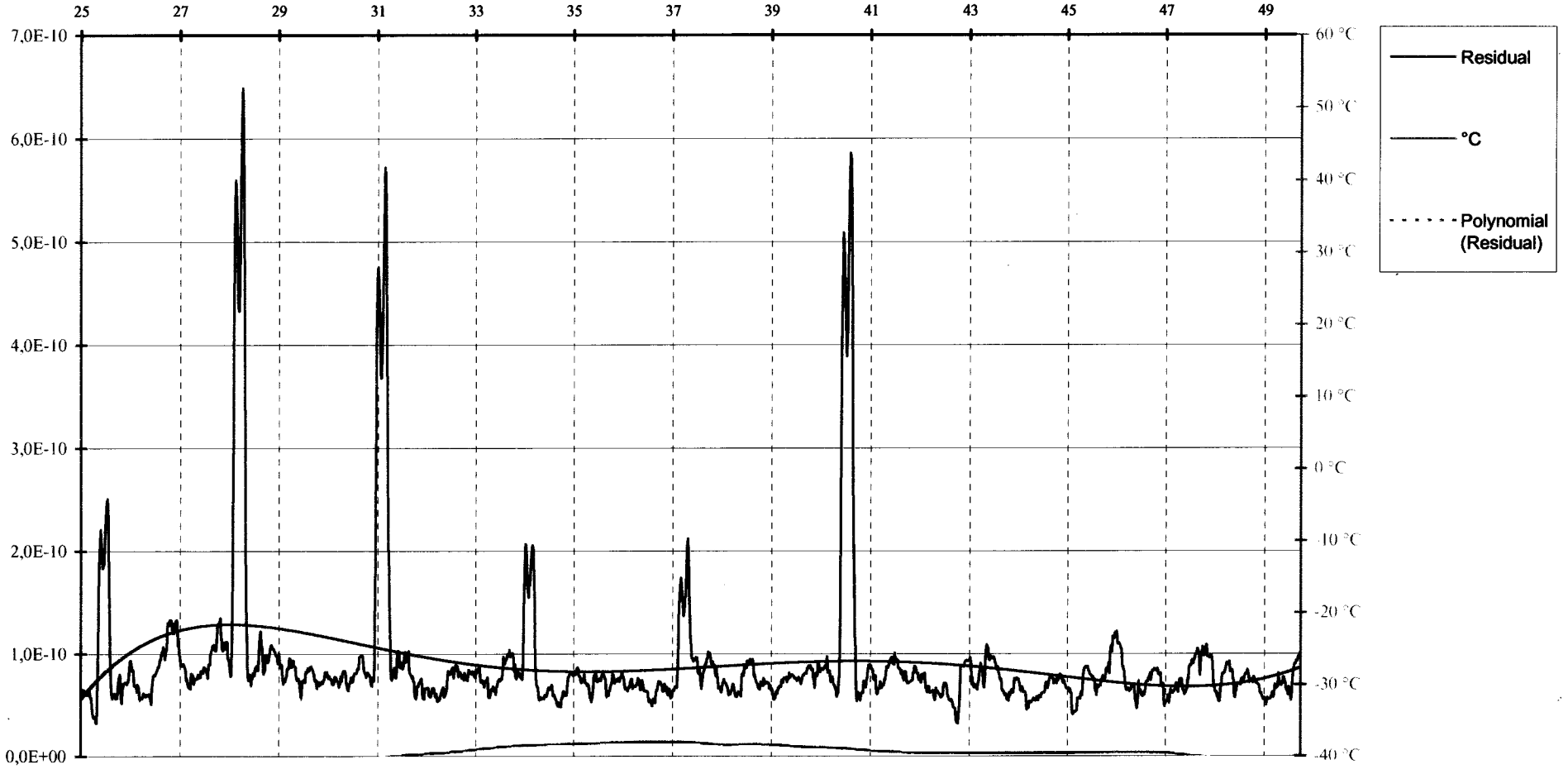


LIFE TEST AT -40 °C

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Numero : 7

Date : 18/06/2001
Time : 08:03:06

MEDIUM TERM STABILITY : RESIDUAL (≤ 3,0E-9)

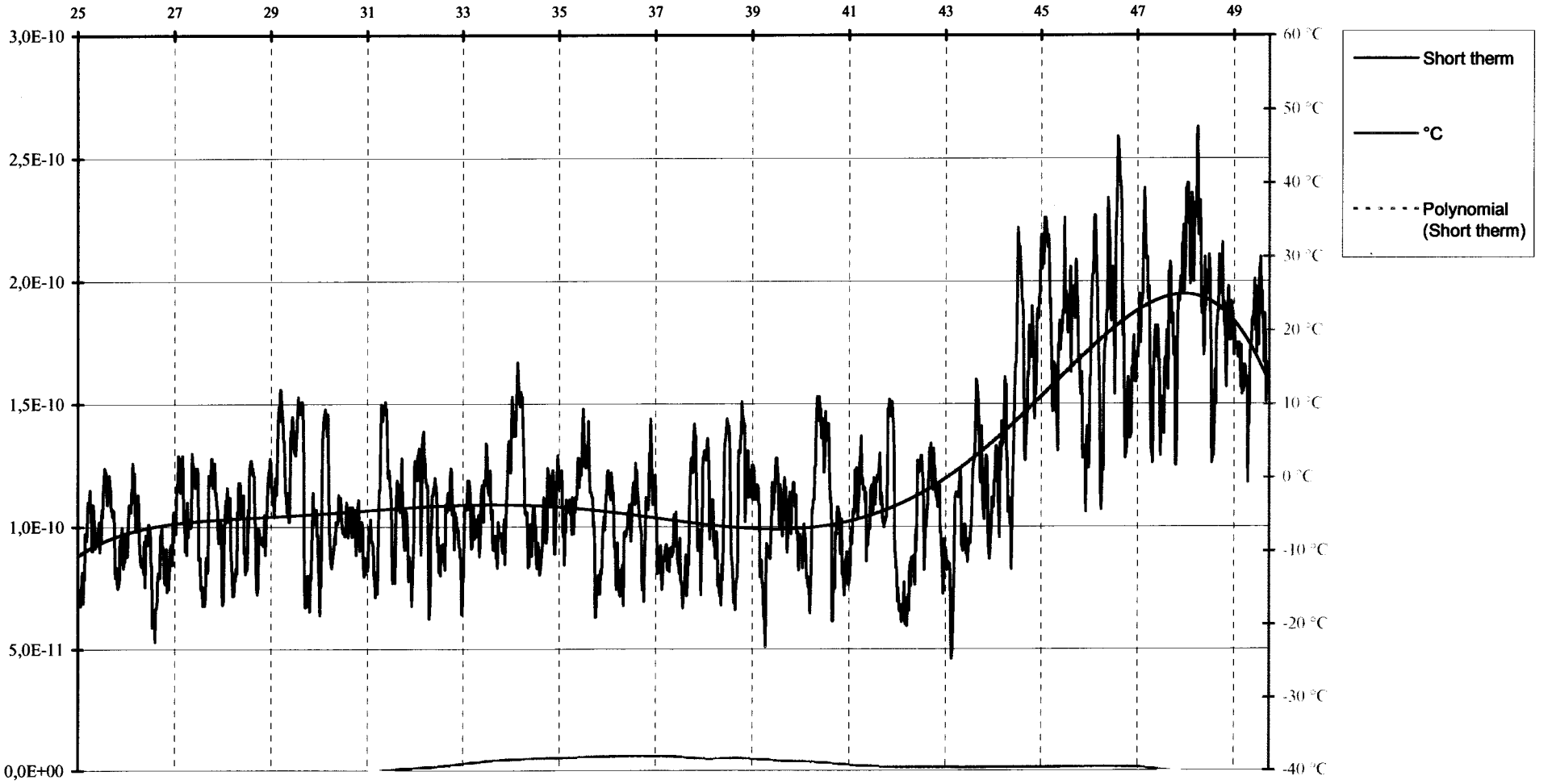


LIFE TEST AT -40 °C

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Numero : 7

Date : 18/06/2001
Time : 08:03:06

SHORT TERM STABILITY /100 mS (≤ 2,0E-9)

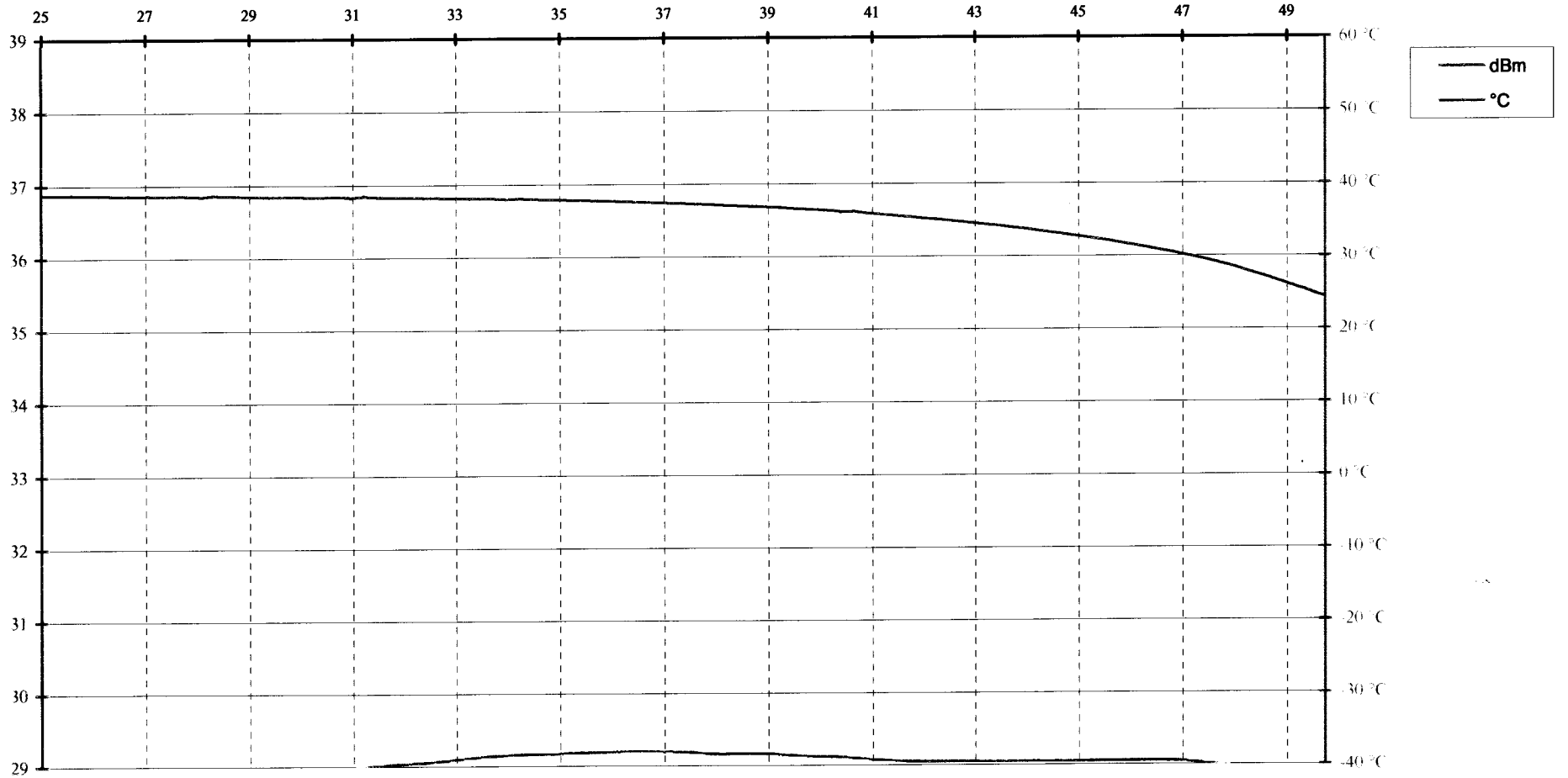


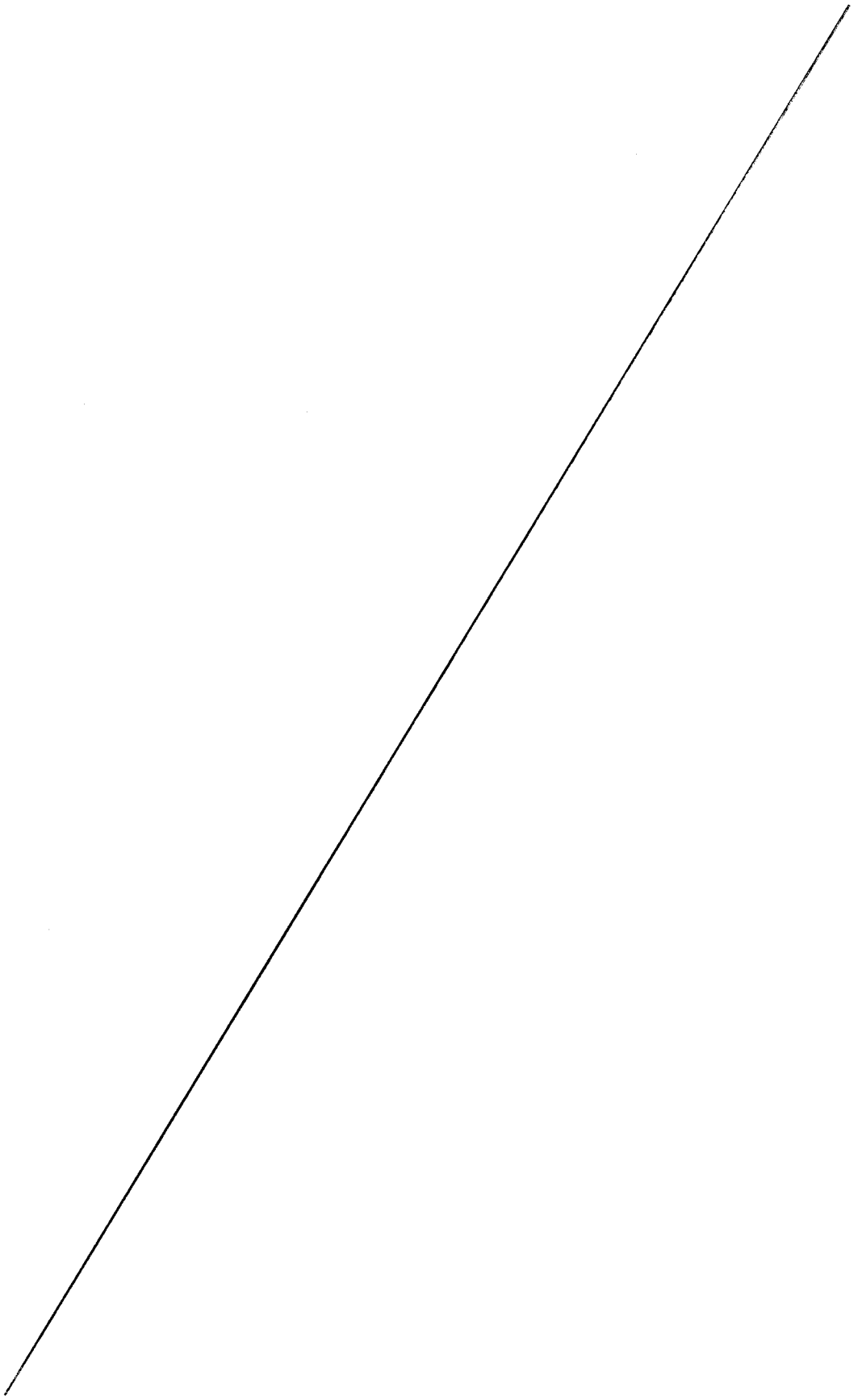
LIFE TEST AT -40 °C

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Numero : 7

Date : 18/06/2001
Time : 08:03:06

OUTPUT POWER (35 to 39 dBm)





TEMPERATURE GRADIENT TEST RESULT ON
RLB35 ACR Electronics, Inc.
N° 7

-40° C to 55° C and 55° C to -40° C

No	Δ Frequency (Hz)	Temp. (°C)	P406 (dBm)	P121.5 (dBm)
1	49609,63	-40,2	36,8	17,8
2	49606,87	-40,6	36,9	17,8
3	49604,52	-40,4	36,9	17,9
4	49602,50	-40,5	37,0	17,9
5	49600,67	-40,3	37,0	17,9
6	49599,15	-40,5	37,0	17,9
7	49597,88	-40,5	37,0	17,9
8	49596,75	-40,5	37,0	17,9
9	49595,89	-40,5	37,0	17,8
10	49595,16	-40,4	37,0	18,0
11	49594,45	-40,5	37,0	18,0
12	49593,84	-40,6	37,0	17,9
13	49593,35	-40,5	37,0	18,0
14	49592,97	-40,5	37,0	18,2
15	49592,56	-40,4	37,1	18,3
16	49592,31	-40,4	37,0	18,3
17	49592,07	-40,4	37,0	18,3
18	49592,05	-40,4	37,0	18,3

Bench error : not stab. at - 40 °C

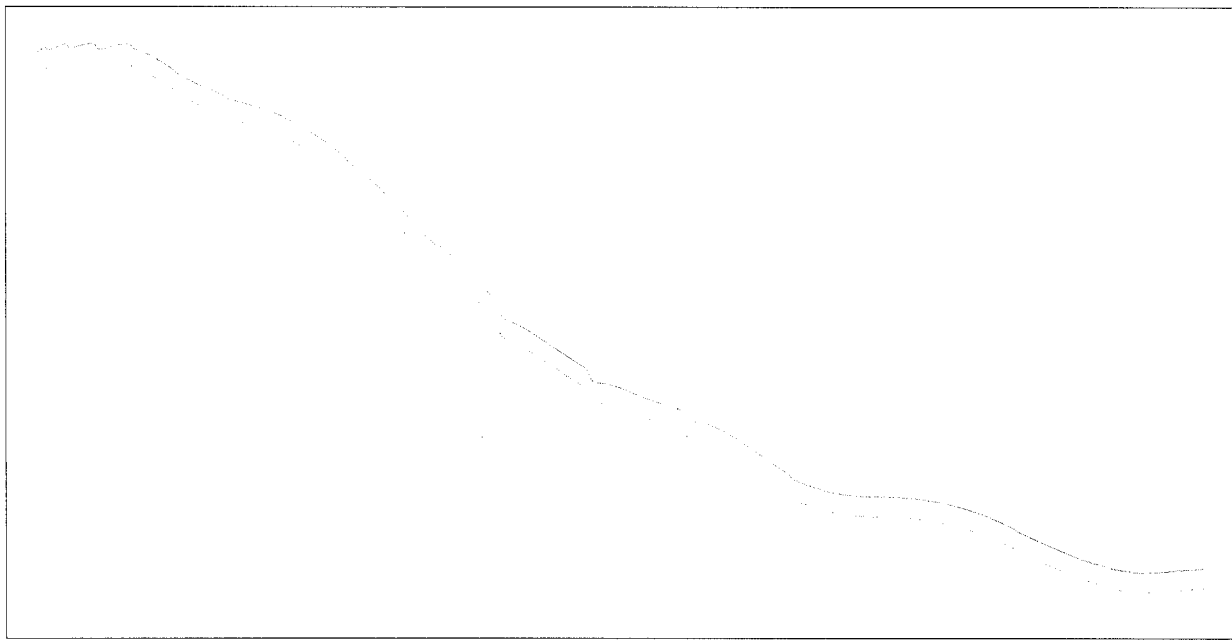
No	Temp.	Slope	Sigma	P406	Short term	P121.5
1	-40,5	~~-2,4E-9~~	~~3,9E-9~~	37,0	1,8E-10	18,3
18	-40,4	2,3E-10	1,7E-10	36,9	1,3E-10	18,2
31	-40,4	1,9E-11	4,7E-10	36,9	9,7E-11	18,2
61	-40,4	-1,4E-10	4,0E-10	36,8	1,3E-10	18,1
91	-40,4	2,1E-11	3,6E-10	36,8	1,1E-10	18,1
121	-40,4	1,2E-10	8,7E-11	36,8	2,0E-10	18,1
151	-38,5	-2,7E-10	2,7E-10	36,8	1,3E-10	18,1
181	-36,4	-2,6E-10	7,7E-11	36,8	1,3E-10	18,2
211	-34,1	-3,0E-10	1,9E-10	36,8	1,2E-10	18,2
241	-32,0	-1,9E-10	1,1E-10	36,9	1,7E-10	18,2
271	-29,8	-2,7E-10	1,6E-10	36,9	9,4E-11	18,2
301	-27,6	-1,2E-10	7,6E-11	37,0	7,8E-11	18,2
331	-25,5	-1,5E-10	6,1E-11	37,0	9,3E-11	18,2
361	-23,3	-2,2E-10	9,3E-11	37,1	8,0E-11	18,3
391	-21,2	-2,7E-10	1,1E-10	37,2	1,3E-10	18,3
421	-19,0	-3,3E-10	8,9E-11	37,2	1,4E-10	18,3
451	-16,9	-3,4E-10	9,6E-11	37,3	1,0E-10	18,4
481	-14,8	-4,2E-10	7,3E-11	37,4	1,3E-10	18,4
511	-12,6	-4,4E-10	8,1E-11	37,5	1,3E-10	18,4
541	-10,3	-3,9E-10	1,1E-10	37,5	1,2E-10	18,4
571	-8,2	-4,0E-10	1,7E-10	37,5	8,7E-11	18,4
601	-6,3	-4,4E-10	9,6E-11	37,6	1,1E-10	18,3
631	-4,2	-6,2E-10	8,3E-10	37,5	1,0E-10	18,4
661	-2,2	-1,8E-10	1,1E-10	37,6	1,4E-10	18,3
691	-0,1	-2,9E-10	7,1E-11	37,6	1,4E-10	18,3
721	1,8	-3,0E-10	1,1E-10	37,6	1,7E-10	18,3
751	4,0	-3,9E-10	5,2E-10	37,5	1,3E-10	18,3
781	6,1	-8,7E-11	7,9E-11	37,6	1,6E-10	18,3
811	8,1	-1,8E-10	8,3E-11	37,6	9,3E-11	18,3
841	10,3	-1,5E-10	7,5E-11	37,6	1,0E-10	18,3

No	Temp.	Slope	Sigma	P406	Short term	P121.5
871	12,3	-1,4E-10	6,6E-11	37,6	1,1E-10	18,2
901	14,5	-1,3E-10	1,9E-10	37,6	1,4E-10	18,2
931	16,7	-2,0E-10	1,2E-10	37,6	1,7E-10	18,2
961	18,8	-2,8E-10	1,3E-10	37,6	1,0E-10	18,2
991	20,8	-3,0E-10	8,9E-11	37,7	2,0E-10	18,1
1021	22,9	-2,9E-10	1,4E-10	37,7	2,3E-10	18,1
1051	25,0	-1,5E-10	7,9E-11	37,7	1,2E-10	18,1
1081	27,0	-1,0E-10	8,6E-11	37,7	1,2E-10	18,1
1111	29,1	-5,4E-11	7,1E-11	37,7	9,5E-11	18,1
1141	31,2	-1,6E-12	6,6E-11	37,7	1,8E-10	18,0
1171	33,3	-2,1E-11	1,1E-10	37,8	1,3E-10	18,0
1201	35,2	-5,0E-11	8,3E-11	37,8	2,1E-10	18,0
1231	37,2	-9,2E-11	1,1E-10	37,8	1,5E-10	18,0
1261	39,1	-1,2E-10	7,8E-11	37,8	1,7E-10	17,9
1291	41,6	-1,7E-10	8,5E-11	37,8	1,1E-10	17,9
1321	43,7	-2,0E-10	7,1E-11	37,8	9,9E-11	17,8
1351	45,8	-2,0E-10	7,4E-11	37,8	1,1E-10	17,9
1381	47,9	-1,9E-10	7,0E-11	37,8	1,6E-10	17,9
1411	50,0	-1,7E-10	7,1E-11	37,7	2,1E-10	17,8
1441	52,0	-1,3E-10	9,1E-11	37,7	1,2E-10	17,8
1471	54,0	-7,6E-11	9,6E-11	37,7	1,5E-10	17,8
1501	55,8	-3,3E-11	1,4E-10	37,7	1,2E-10	17,7
1531	56,0	3,3E-11	1,2E-10	37,7	1,3E-10	17,7
1561	55,9	2,2E-11	1,4E-10	37,7	1,2E-10	17,7
1591	55,8	2,9E-11	7,6E-11	37,7	1,5E-10	17,7
1621						
1651						
1681						
1711						
1741						
1771						
1801						
1831						
1861						
1891						
1921						
1951						
1981						
2011						
2041						
2071						
2101						
2131						
2161						
2191						
2221						
2251						
2281						
2311						
2341						
2371						

Beacon message at the end of Frequency Stability Test with Temperature Gradient :
FFFE2F96EE2EC0012C00221D917769FCB6D1

Frequency variation

406024601



406024488

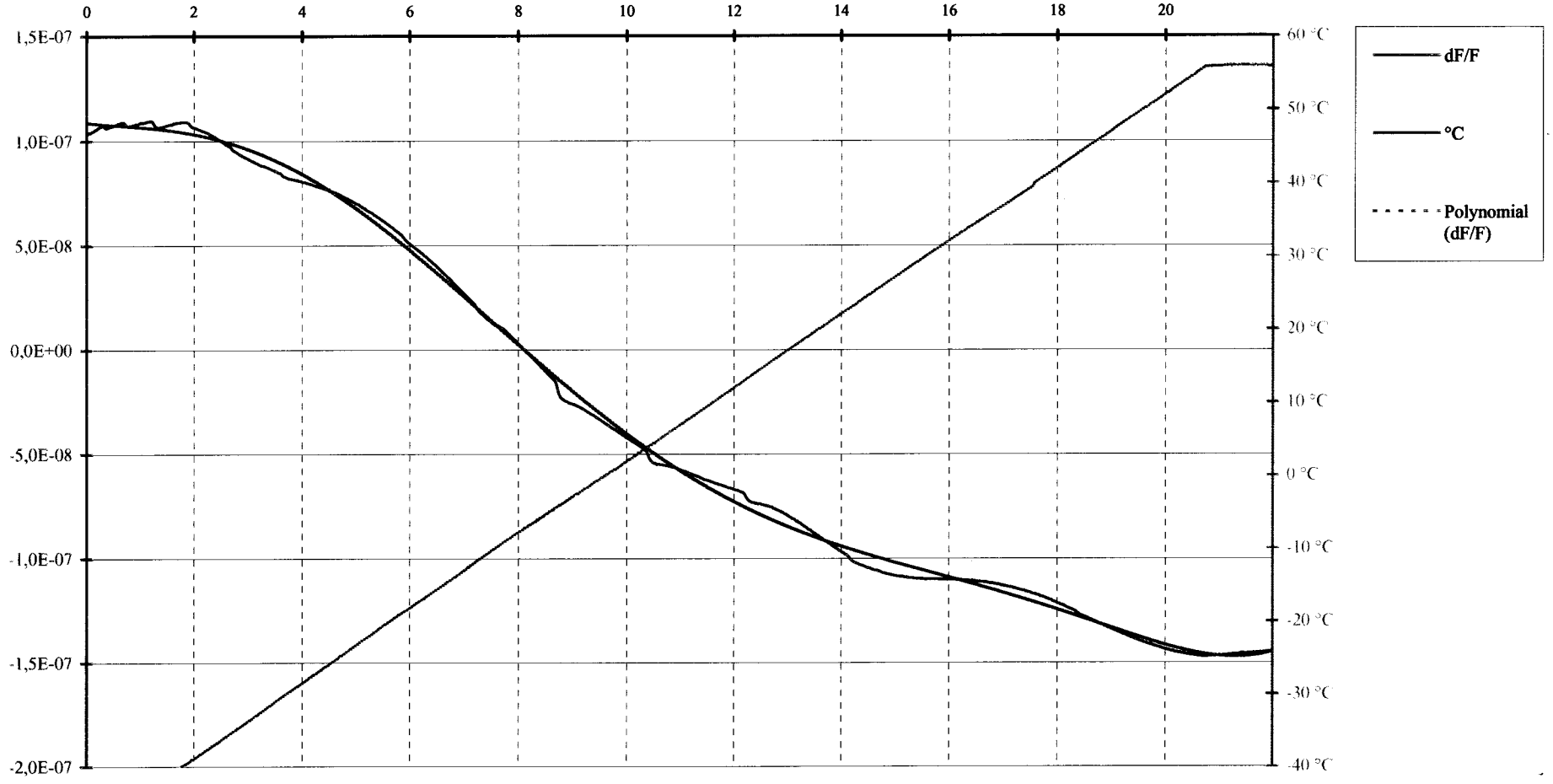
Initial tracing Smoothed tracing

TEMPERATURE GRADIENT TEST RESULTS (5 °C / hour)

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 20 Apr 2001
Time : 17:37:07

FREQUENCY VARIATION

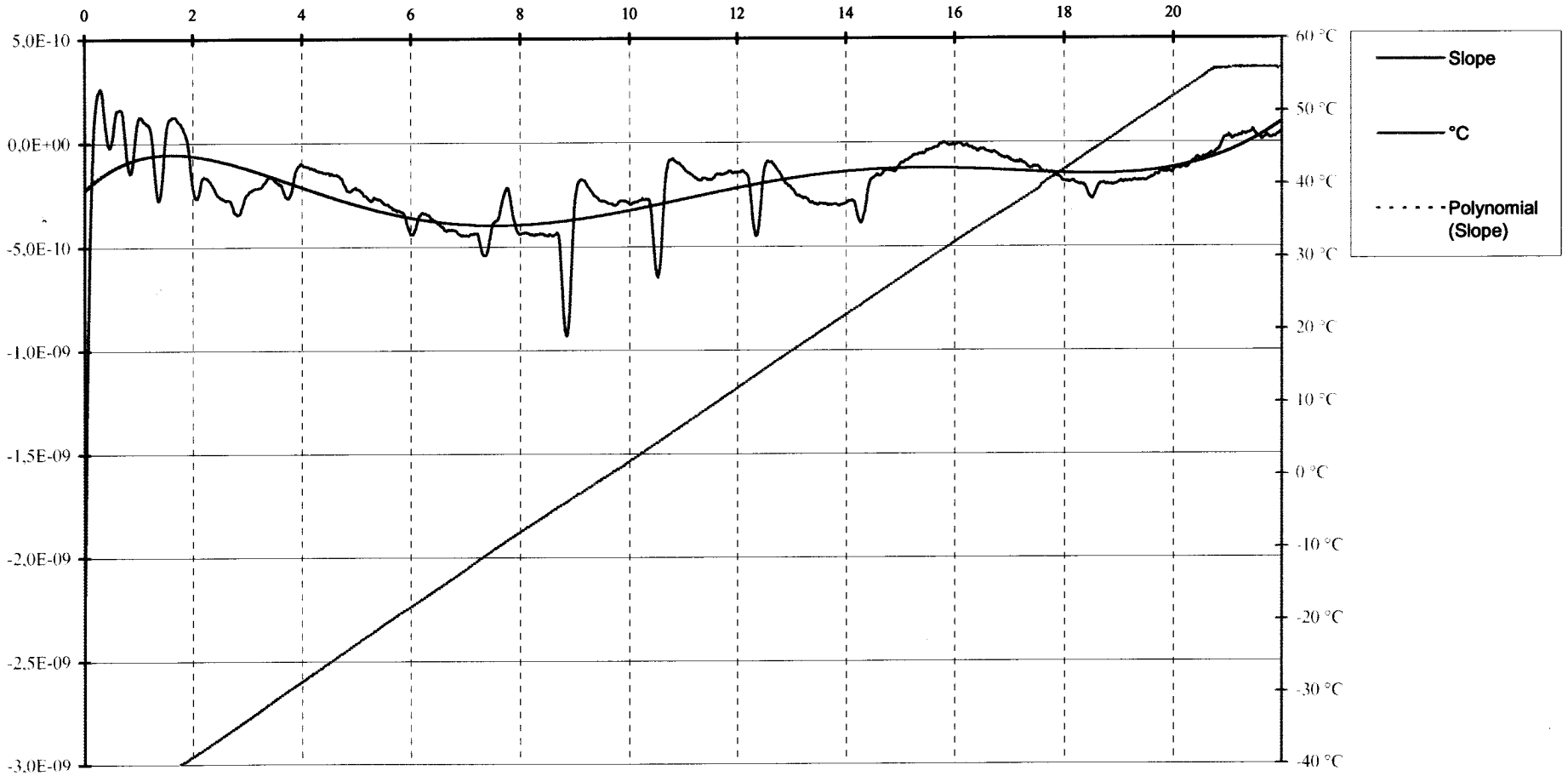


TEMPERATURE GRADIENT TEST RESULTS (5 °C / hour)

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 20 Apr 2001
Time : 17:37:07

MEDIUM TERM STABILITY : MEAN SLOPE /mn (-1,0E-9 to 1,0E-9)

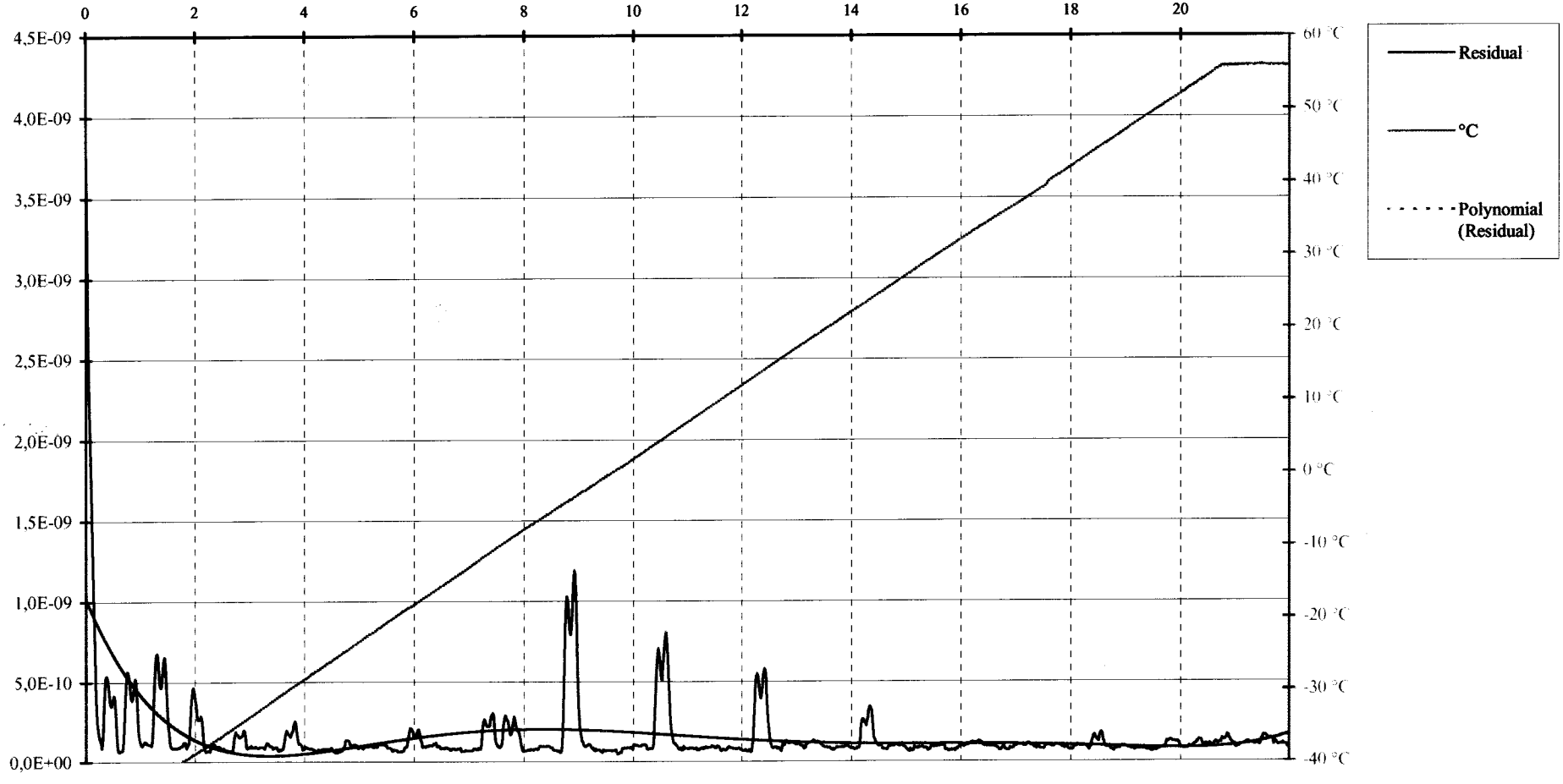


TEMPERATURE GRADIENT TEST RESULTS (5 °C / hour)

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 20 Apr 2001
Time : 17:37:07

MEDIUM TERM STABILITY : RESIDUAL (≤ 3,0E-9)

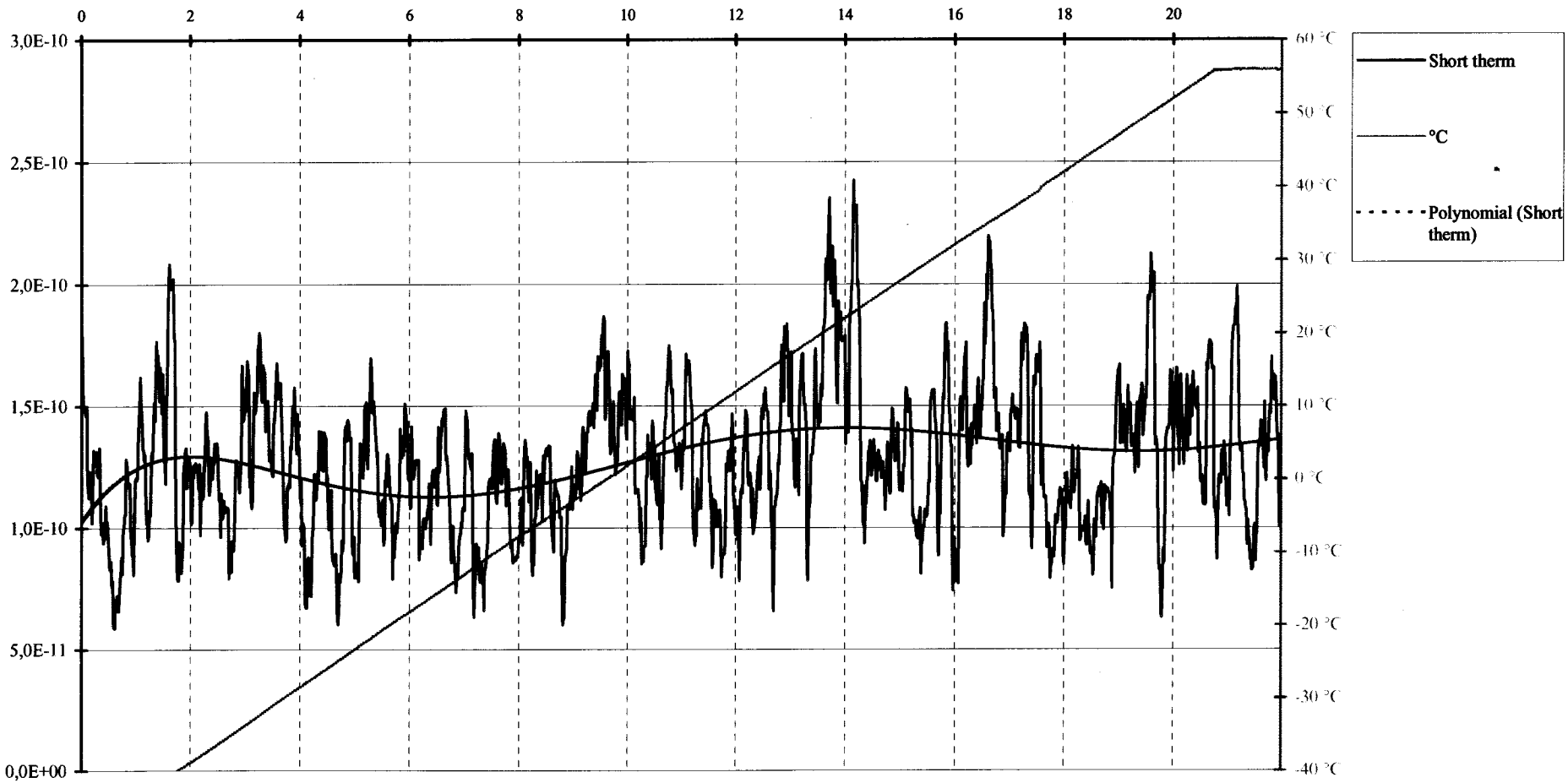


TEMPERATURE GRADIENT TEST RESULTS (5 °C / hour)

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 20 Apr 2001
Time : 17:37:07

SHORT TERM STABILITY /100 mS (≤ 2,0E-9)

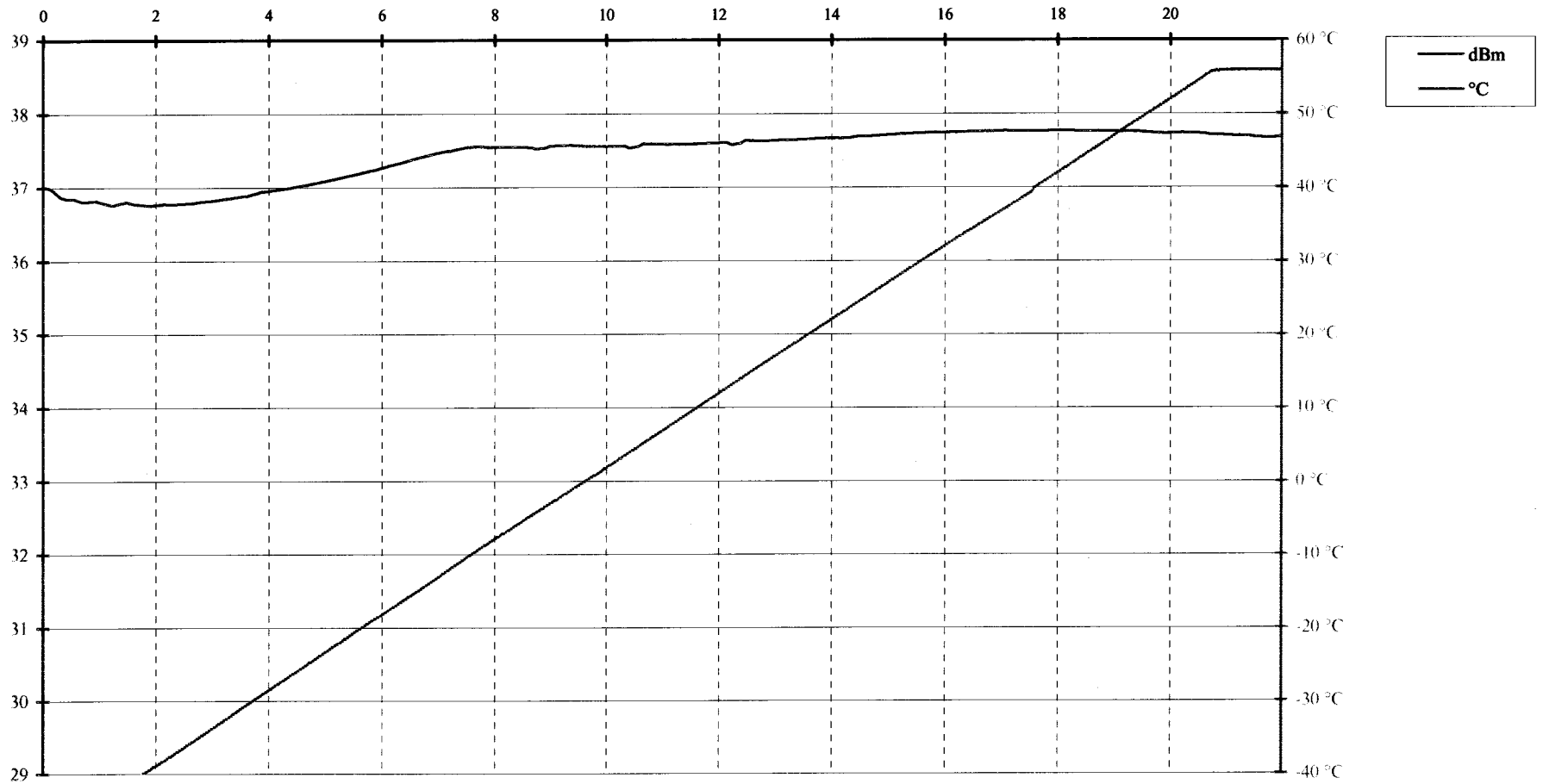


TEMPERATURE GRADIENT TEST RESULTS (5 °C / hour)

Manufacturer : ACR Electronics, Inc.
Model : RLB35
Number : 7

Date : 20 Apr 2001
Time : 17:37:07

OUTPUT POWER (35 to 39 dBm)



Pente et Sigma (Mesures) Mesures du 26 Apr 2001 09:31:08

Constructeur : ACR
Type : RLB35
Numero : 07
Reference INTESPACE : M3223-1
Type : SARSAT

	Freq	Temp.	P406	P121.5
1	49489.03	52.49	37.56	17.74
2	49487.69	52.76	37.67	17.78
3	49486.71	52.80	37.68	17.79
4	49486.08	52.89	37.68	17.81
5	49485.63	52.84	37.68	17.80
6	49485.20	52.88	37.68	17.73
7	49484.99	52.93	37.68	17.78
8	49484.83	52.88	37.67	17.80
9	49484.57	52.86	37.68	17.78
10	49484.38	52.86	37.69	17.76
11	49484.31	52.75	37.68	17.74
12	49484.19	52.75	37.69	17.76
13	49484.09	52.77	37.69	17.72
14	49484.00	52.84	37.68	17.79
15	49483.87	52.83	37.68	17.74
16	49483.78	52.83	37.68	17.73
17	49483.74	52.75	37.70	17.73
18	49483.59	52.81	37.70	17.75

No	Temp	Slope	Sigma	P406	Short term	P121.5	Bench error
1	52.8	-5.8E-10	+1.1E-09	37.7	+1.7E-10	0.0	17,8
18	52.9	-1.1E-10	+1.2E-10	37.7	+1.7E-10	0.0	
31	52.7	+4.2E-11	+1.0E-10	37.7	+1.3E-10	0.0	
61	52.5	+4.5E-11	+7.7E-11	37.7	+1.6E-10	0.0	
91	52.4	+9.7E-11	+2.2E-10	37.7	+1.2E-10	0.0	
121	52.3	+8.2E-12	+9.3E-11	37.7	+1.0E-10	0.0	
151	50.9	-7.0E-12	+8.7E-11	37.7	+1.3E-10	0.0	
181	48.8	+5.9E-12	+1.1E-10	37.7	+8.6E-11	0.0	
211	46.7	+4.4E-11	+7.4E-11	37.7	+1.5E-10	0.0	
241	44.6	+8.9E-11	+1.1E-10	37.7	+1.9E-10	0.0	
271	42.4	+1.3E-10	+9.2E-11	37.7	+1.4E-10	0.0	18,0
301	40.5	+1.5E-10	+8.9E-11	37.7	+2.1E-10	0.0	
331	38.4	+1.2E-10	+1.6E-10	37.7	+2.0E-10	0.0	
361	36.4	+2.1E-10	+1.1E-10	37.7	+1.1E-10	0.0	
391	34.4	+1.9E-10	+1.0E-10	37.7	+1.2E-10	0.0	
421	32.3	+5.2E-11	+2.5E-10	37.7	+1.4E-10	0.0	
451	30.2	+1.5E-10	+7.3E-11	37.7	+1.4E-10	0.0	
481	28.1	+6.2E-11	+9.0E-11	37.7	+1.7E-10	0.0	
511	26.1	+2.1E-11	+9.1E-11	37.7	+1.0E-10	0.0	
541	24.1	-1.0E-11	+1.1E-10	37.6	+1.5E-10	0.0	
571	22.0	-3.3E-11	+9.8E-11	37.7	+1.2E-10	0.0	
601	20.1	-3.3E-11	+6.9E-11	37.6	+1.6E-10	0.0	
631	18.1	-1.9E-12	+1.2E-10	37.6	+1.1E-10	0.0	18,1
661	16.2	+8.7E-11	+1.1E-10	37.6	+1.5E-10	0.0	
691	14.1	+1.6E-10	+9.3E-11	37.6	+1.5E-10	0.0	
721	12.2	+2.3E-10	+1.1E-10	37.6	+1.1E-10	0.0	18,2

751	10.1	+2.7E-10	+4.5E-10	37.6	+9.3E-11	0.0	
781	8.1	+2.5E-10	+1.1E-10	37.6	+1.4E-10	0.0	
811	6.2	+2.0E-10	+9.1E-11	37.6	+8.6E-11	0.0	
841	4.1	+1.2E-10	+1.1E-10	37.6	+1.2E-10	0.0	
871	2.1	+6.3E-11	+1.2E-10	37.5	+1.5E-10	0.0	
901	0.0	+1.4E-10	+7.0E-11	37.5	+1.0E-10	0.0	
931	-2.2	+1.9E-10	+9.1E-11	37.5	+1.1E-10	0.0	
961	-4.1	+2.4E-10	+7.4E-11	37.5	+1.2E-10	0.0	
991	-6.1	+2.9E-10	+8.2E-11	37.5	+9.2E-11	0.0	
1021	-8.3	+4.0E-10	+1.0E-10	37.5	+1.3E-10	0.0	
1051	-10.4	+3.2E-10	+6.8E-11	37.4	+1.2E-10	0.0	
1081	-12.6	+3.5E-10	+6.4E-11	37.4	+1.5E-10	0.0	
1111	-14.8	+3.6E-10	+7.9E-11	37.4	+1.2E-10	0.0	
1141	-16.9	+3.3E-10	+1.3E-10	37.4	+8.9E-11	0.0	
1171	-19.0	+1.9E-10	+1.2E-10	37.4	+1.4E-10	0.0	
1201	-21.2	+4.9E-10	+1.3E-10	37.3	+7.4E-11	0.0	
1231	-23.3	+4.0E-10	+9.1E-11	37.3	+1.3E-10	0.0	
1261	-25.4	+4.3E-10	+7.4E-11	37.3	+1.1E-10	0.0	
1291	-27.6	+3.8E-10	+6.9E-11	37.3	+9.6E-11	0.0	
1321	-29.8	+4.2E-10	+9.7E-11	37.3	+1.2E-10	0.0	
1351	-32.1	+3.0E-10	+9.1E-11	37.2	+8.3E-11	0.0	
1381	-34.3	+2.2E-10	+9.2E-11	37.2	+9.1E-11	0.0	
1411	-36.4	+1.6E-10	+8.6E-11	37.2	+1.4E-10	0.0	18.3
1441	-38.5	+1.6E-10	+8.4E-11	37.1	+7.8E-11	0.0	
1471	-40.4	+1.1E-10	+3.7E-10	37.1	+1.2E-10	0.0	
1501	-42.5	+3.6E-10	+1.1E-10	37.0	+7.4E-11	0.0	
1531	-42.8	+1.9E-10	+1.3E-10	37.0	+9.7E-11	0.0	
1561	-42.7	+3.3E-11	+1.1E-10	37.0	+1.2E-10	0.0	
1591	-42.7	+8.5E-12	+5.8E-11	36.9	+1.3E-10	0.0	
1621	-42.9	+2.4E-12	+7.4E-11	36.9	+8.3E-11	0.0	
1651	-34.1	-9.0E-11	+2.8E-10	36.9	+8.9E-11	0.0	18.2

Nbre d'erreurs de mesure recuperees : 0