

Annex I: Photos

Test report reference: 4_ALPS_0306_TAS_FCCa

Date: 2006-03-31



0.1 Dwell time measurement to determine the duty cycle

Standard FCC Part 15, 10-1-04

Subpart C

The test was performed according to: FCC §15.31, 10-1-04

0.1.1 Test Description

The Equipment Under Test (EUT) was setup in a shielded room to perform the dwell time measurements.

For analyzer settings please see measurement plots in annex.

0.1.2 Test Limits

Less than 5 seconds. This test is also performed to determine the duty cycle of the transmitter and calculate the correction factor for pulse modulated transmitter. This factor is used as a correction factor for the field strength measurement.

0.1.3 Test Protocol

Temperature: 24 °C Air Pressure: 1003 hPa Humidity: 33 %

Op. Mode	Setup	Port
Op. Mode	CCLGP	

op-mode 2 Setup_b01 Enclosure (integral antenna)

Remark		
Step 1	The on / off ratio within a cycle is 0.5	
Step 2	The on / off ratio within a data word is 0.5	
The duty cycle is 0.25 or 20 x $log(0.25) = -12dB$		

Remark:

Step1: Burst on time = 57.1ms - 4ms = 53.1ms

Burst off time = 46.8ms

On/on+off app. 53%

Step2: Data word on time – long = 0.8ms, short = 0.4ms together= 1.2 ms
Data word off time – long = 0.82ms, short = 0.42ms together= 1.24 ms

On/on+off app. 0.49%

duty cycle = $20 \times Log(0.53X0.49) = -11.7$

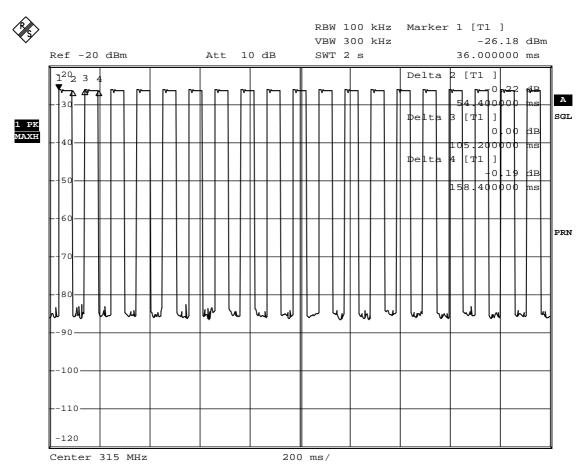
Correction value set to -12dB

0.1.4 Test result: Dwell time

FCC Part 15, Subpart C	Op. Mode	Result
	op-mode 2	This test has no result. It is performed to found the correction factor for the test
		spurious emissions radiated

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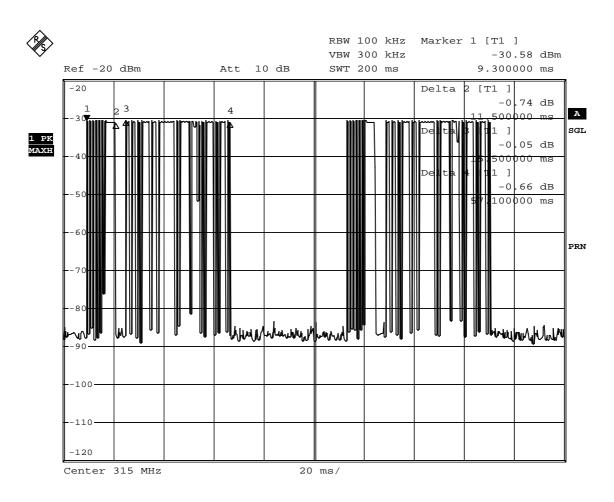


Date: 31.MAR.2006 09:25:40

Step 1 a: Overview for burst on / off time. Do to the analyzer settings it is not possible to measure the burst length exact.



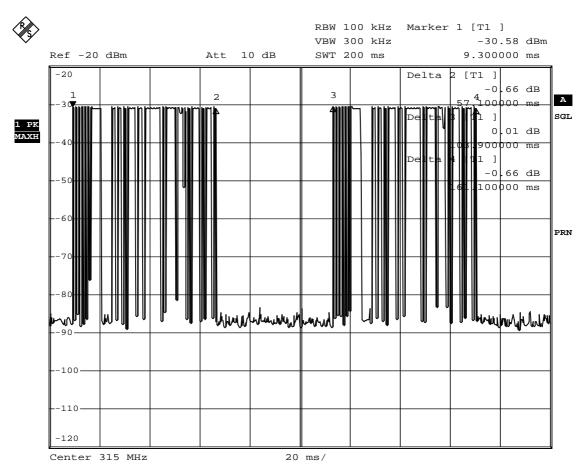
Date:



Step 1 b: Two burst to measure the burst on / off time. Do to the analyzer settings it is not possible to measure the single data word length.

31.MAR.2006 09:20:30

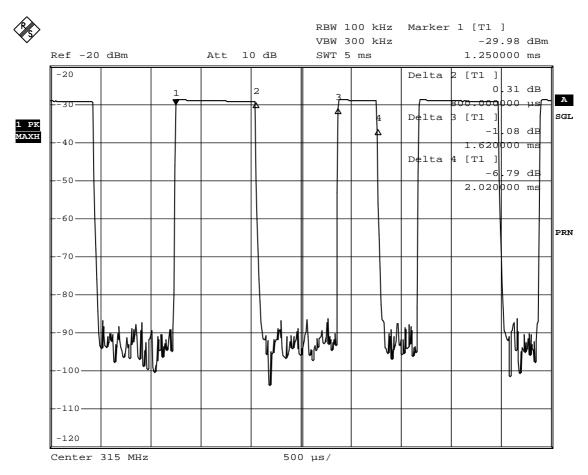




Date: 31.MAR.2006 09:23:17

Step 1 c: Two burst to measure the burst on / off time. Do to the analyzer settings it is not possible to measure the single data word length.

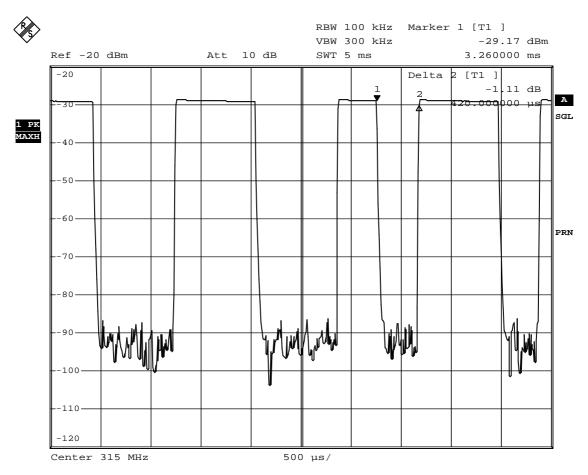




Date: 31.MAR.2006 09:32:32

Step 2 a: sweep of a data word to determine the on / off ration within a data word. Two length of on and off time are shown.





Date: 31.MAR.2006 09:34:59

Step 2 b: sweep of a data word to determine the on / off ration within a data word. Two length of on and off time are shown.