



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 2	Setup_b01	Enclosure (integral antenna)

Remark
The on / off ratio within a cycle is 0.5
The on / off ratio within a data word is 0.5
The duty cycle is 0.25 or $20 \times \log(0.25) = -12\text{dB}$

Remark:

Burst on time = 57.1ms – 4ms = 53.1ms

Burst off time = 46.8ms

On/on+off app. 53%

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 = $20 \times \log(0.53 \times 0.49) = -11.7$

Correction value set to -12dB

0.1.4 Test result: Dwell time

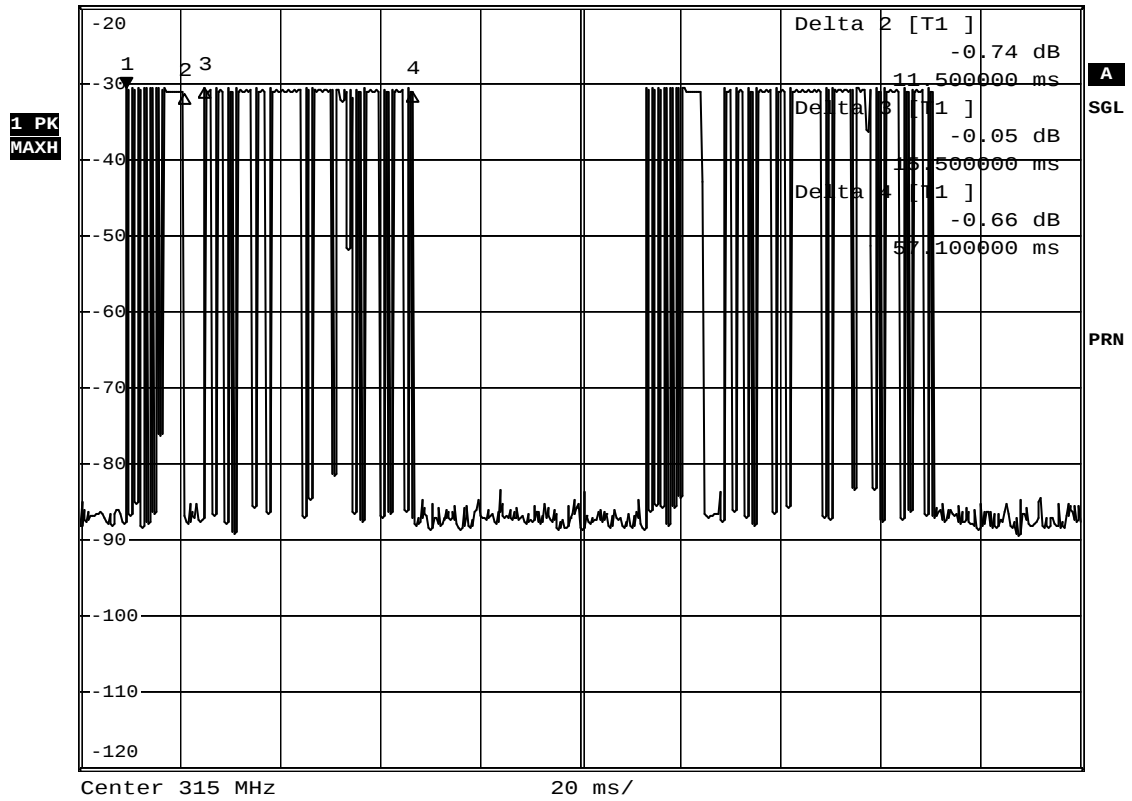
FCC Part 15, Subpart C	Op. Mode	Result
	op-mode 2	This test has no result. It is performed to found the correction factor for the test



spurious emissions radiated



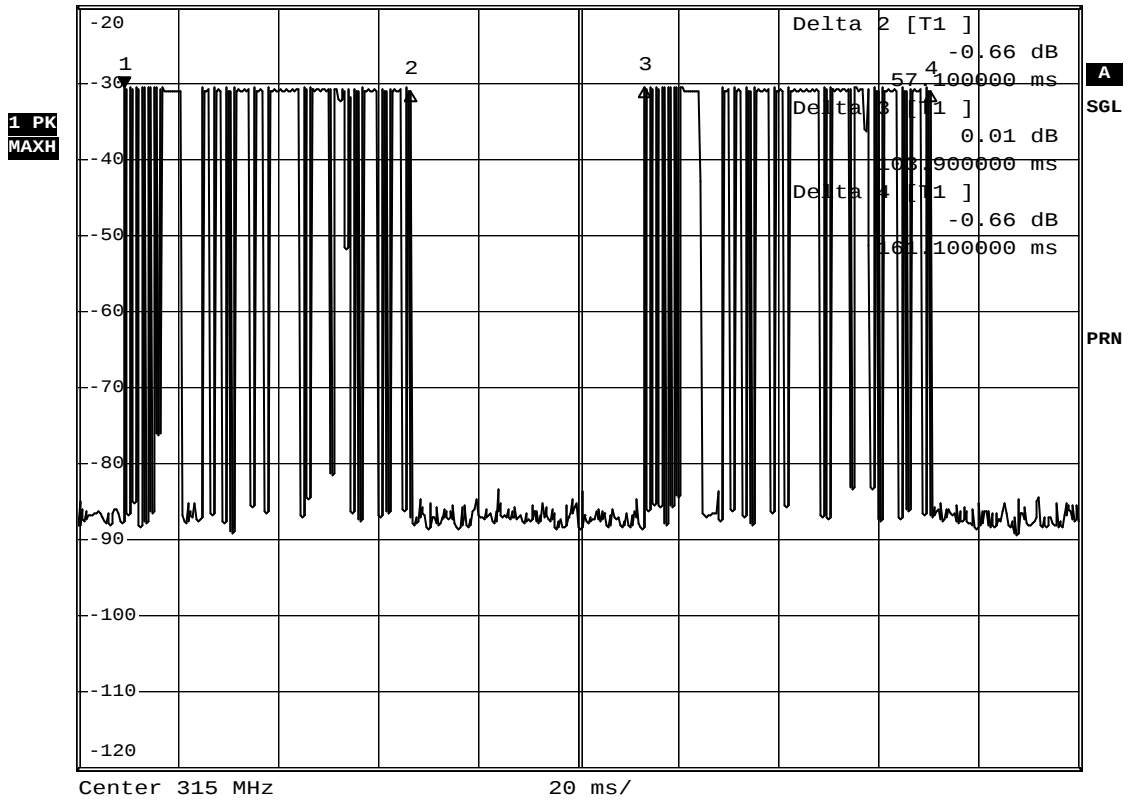
RBW 100 kHz Marker 1 [T1]
VBW 300 kHz -30.58 dBm
Ref -20 dBm Att 10 dB SWT 200 ms 9.300000 ms



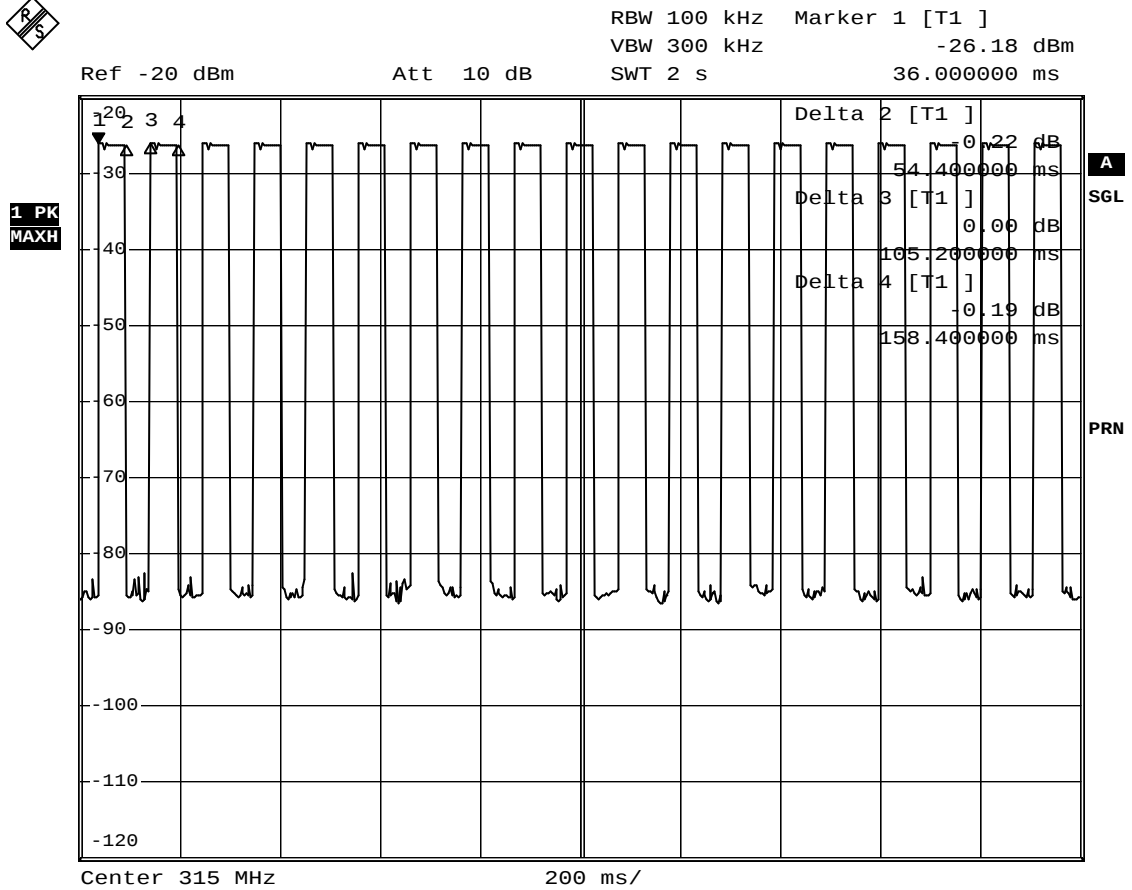
Date: 31.MAR.2006 09:20:30



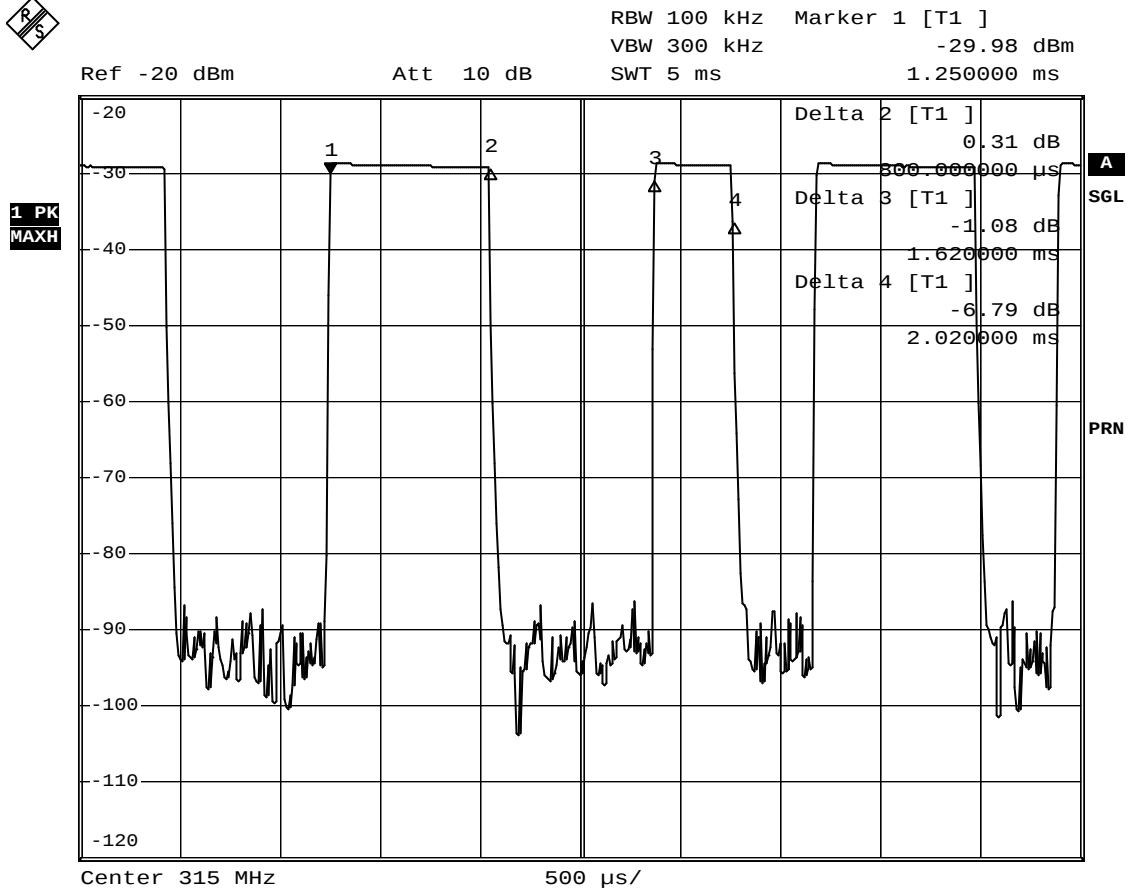
RBW 100 kHz Marker 1 [T1]
VBW 300 kHz -30.58 dBm
Ref -20 dBm Att 10 dB SWT 200 ms 9.300000 ms



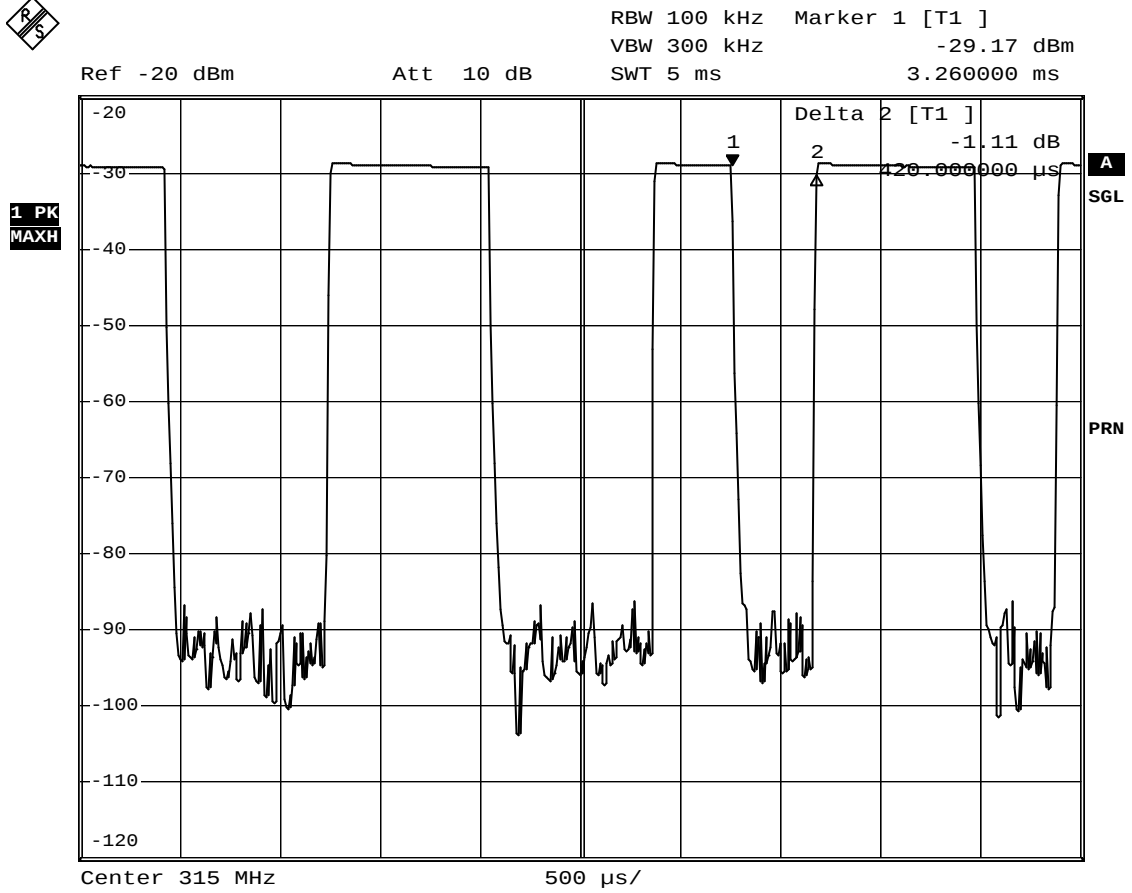
Date: 31.MAR.2006 09:23:17



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



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



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