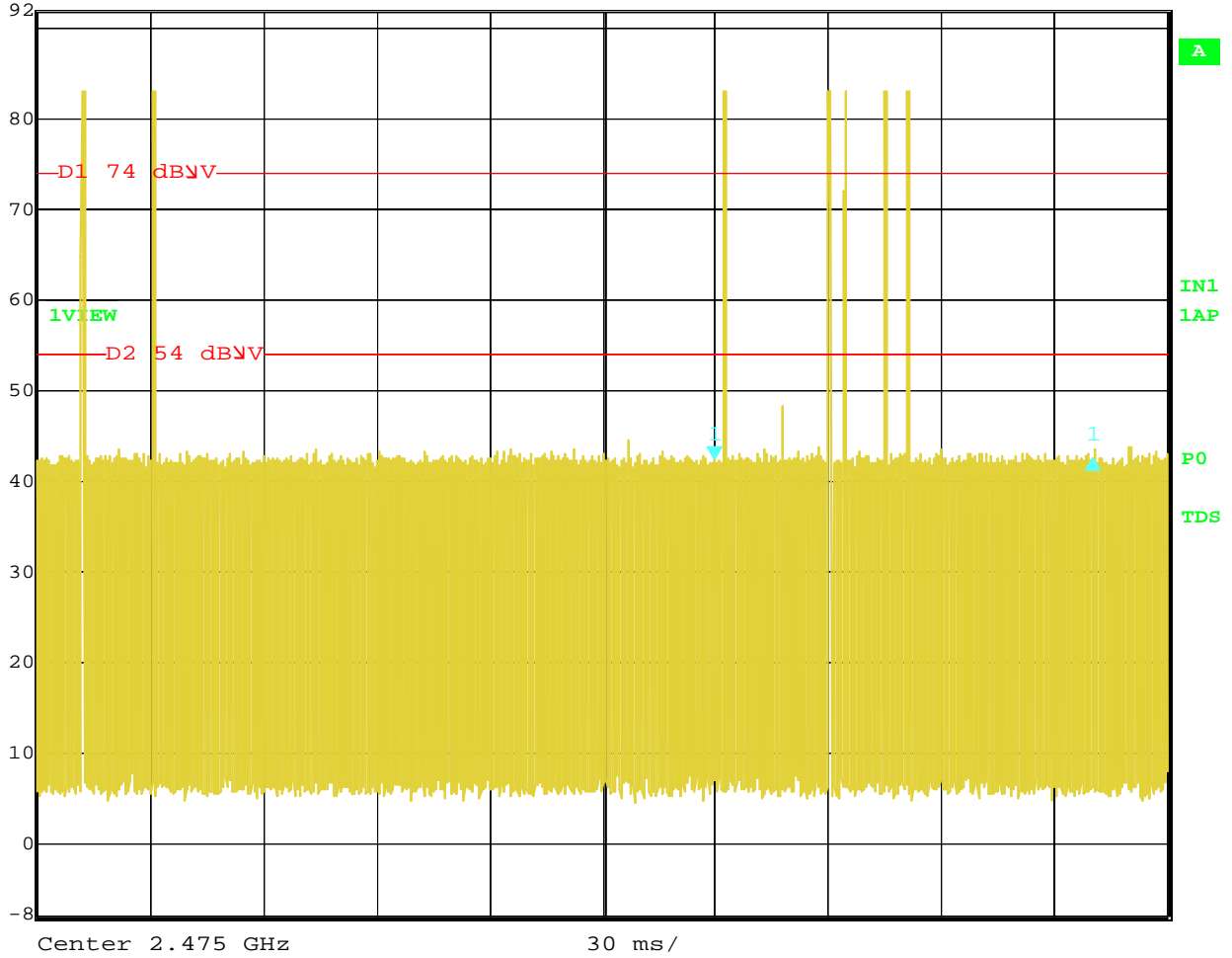




Delta 1 [T1] RBW 1 MHz RF Att 10 dB
Ref Lvl -0.00 dB VBW 3 MHz
92 dBmV 100.400802 ms SWT 300 ms Unit dBmV

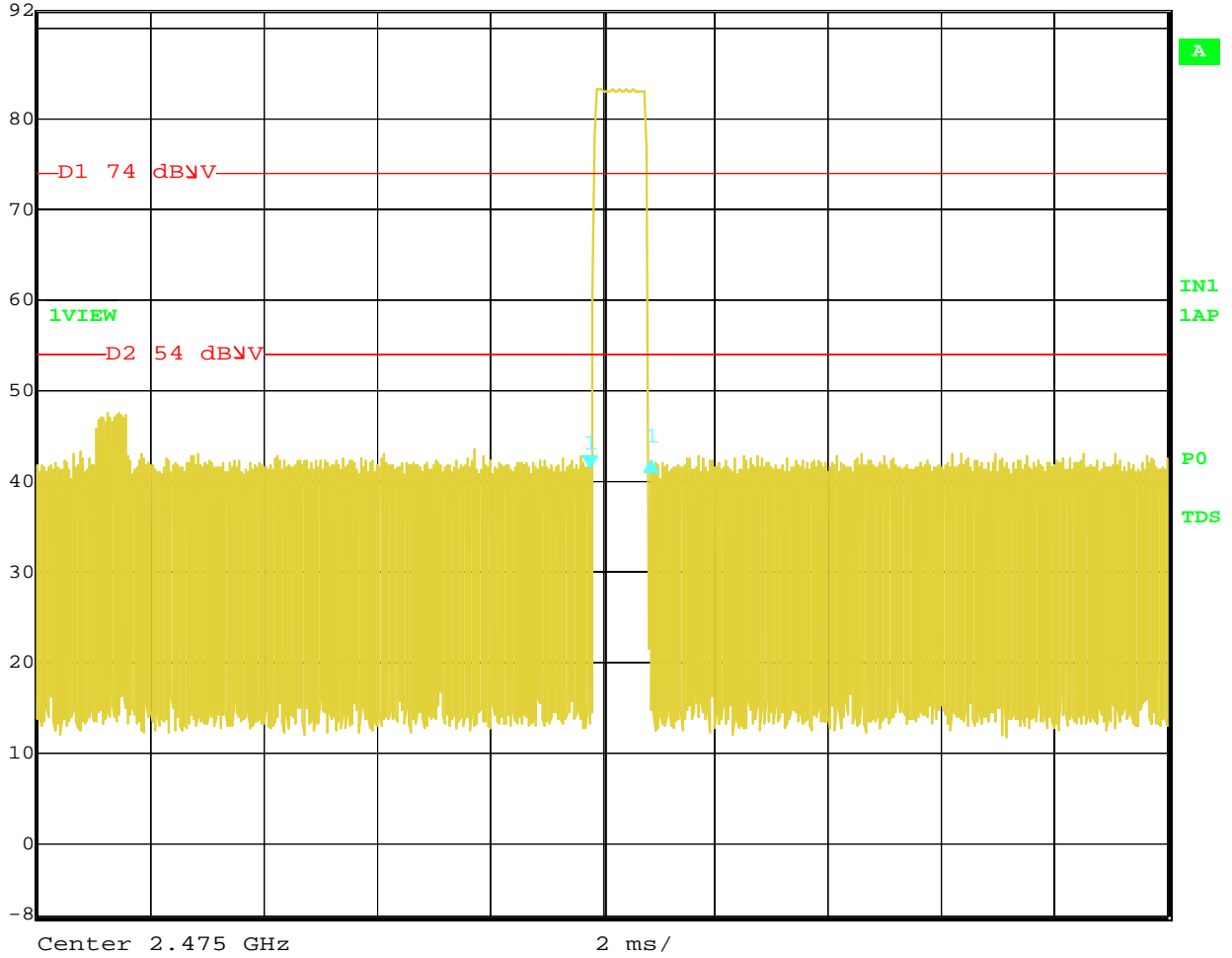


Date: 24.SEP.2014 07:45:46

Number of Pulses in Advertising Mode – Worst Case 100 ms is 5 Pulses



Delta 1 [T1] RBW 1 MHz RF Att 10 dB
Ref Lvl 0.83 dB VBW 3 MHz
92 dBV 1.082164 ms SWT 20 ms Unit dBV

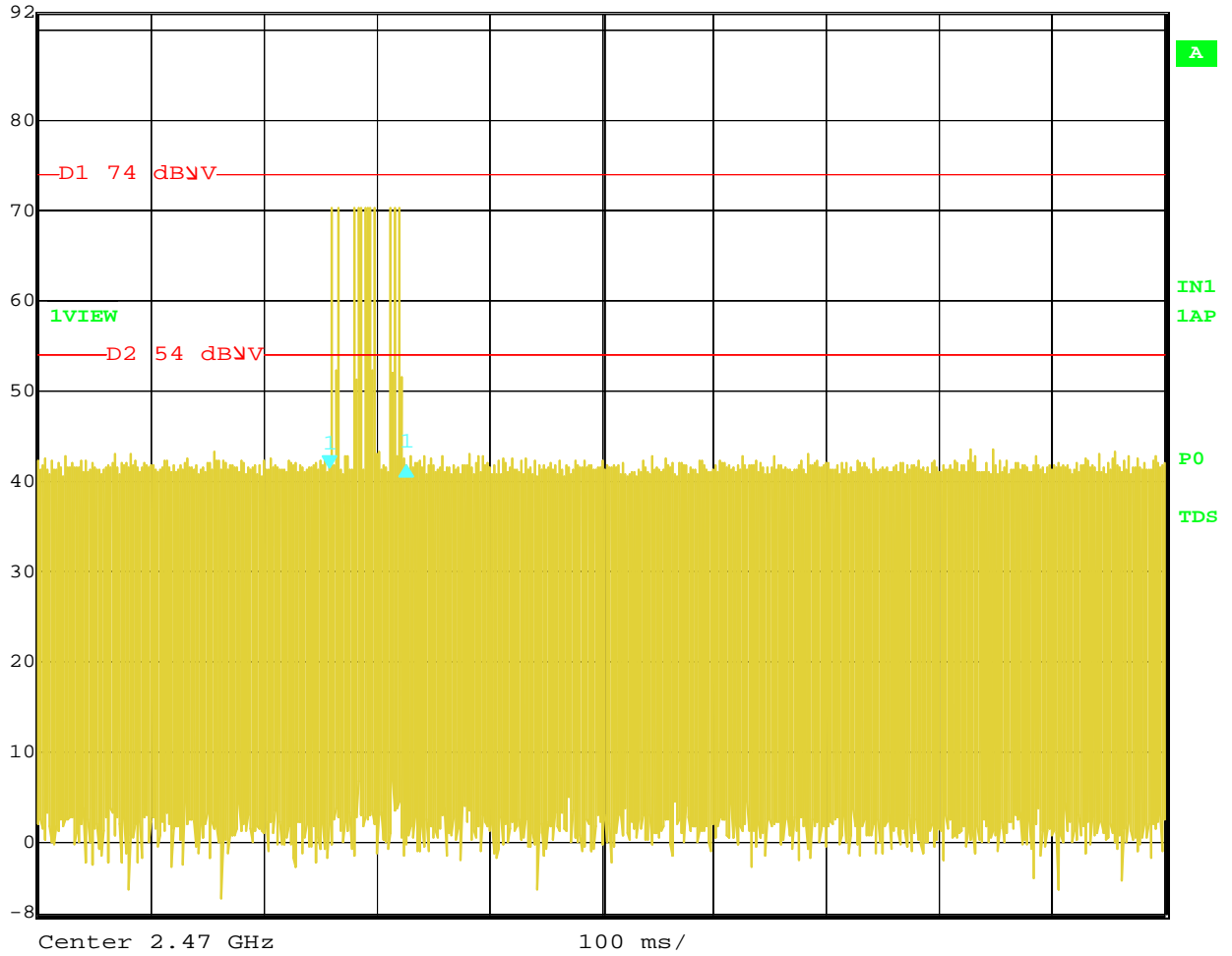


Date: 24.SEP.2014 07:45:01

Time of One Pulse – Advertising Mode – 1.082164 ms
Duty Cycle = (1.082164 ms * 5) / 100 ms = 5.41082%



Delta 1 [T1] RBW 1 MHz RF Att 10 dB
Ref Lvl 0.29 dB VBW 3 MHz
92 dBV 68.136273 ms SWT 1 s Unit dBV

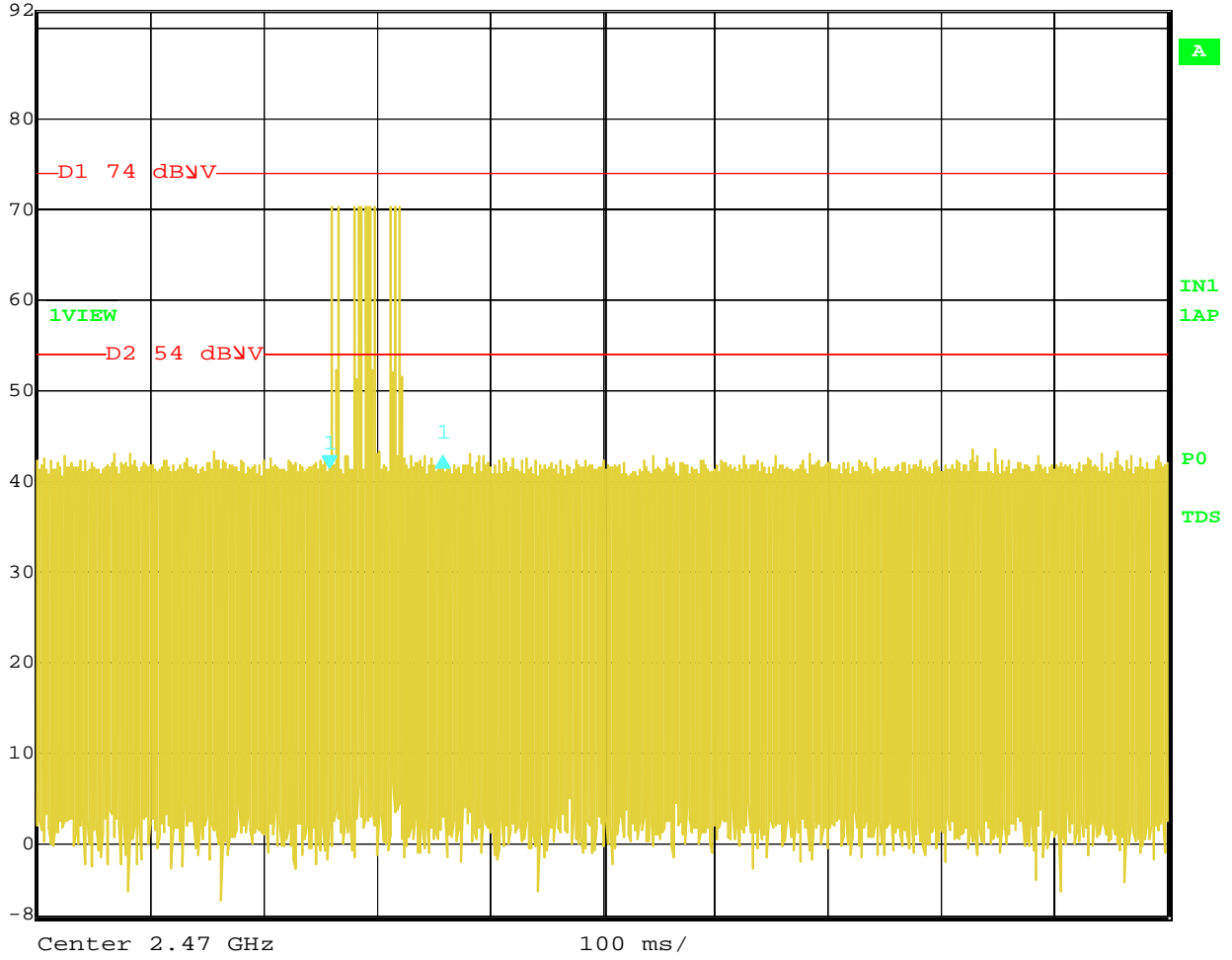


Date: 24.SEP.2014 07:56:45

Pulse Train in Pairing Mode



Delta 1 [T1] RBW 1 MHz RF Att 10 dB
Ref Lvl 1.21 dB VBW 3 MHz
92 dBV 100.200401 ms SWT 1 s Unit dBV

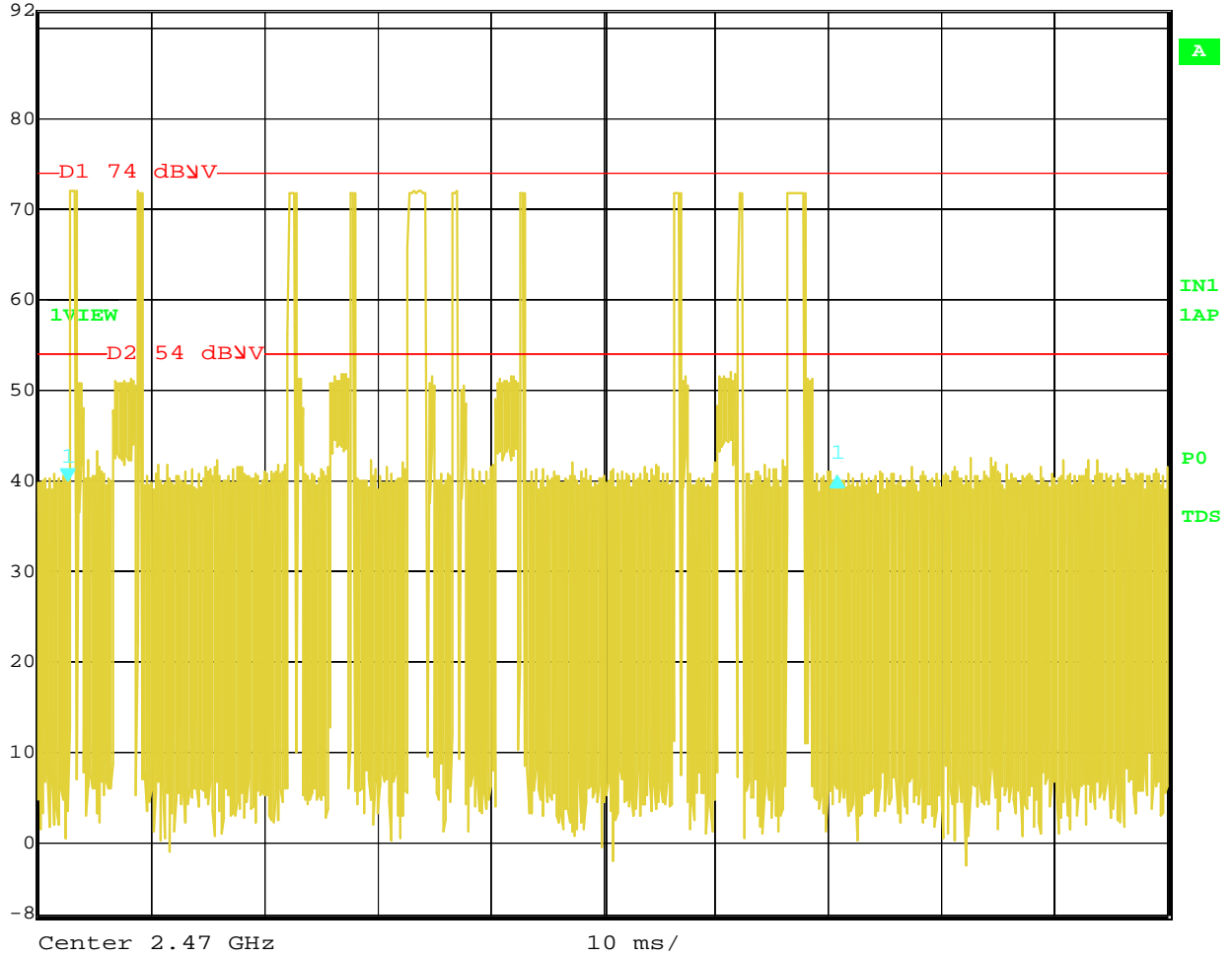


Date: 24.SEP.2014 07:57:10

Pulse train only shows up once in a 100 ms period – Pairing Mode

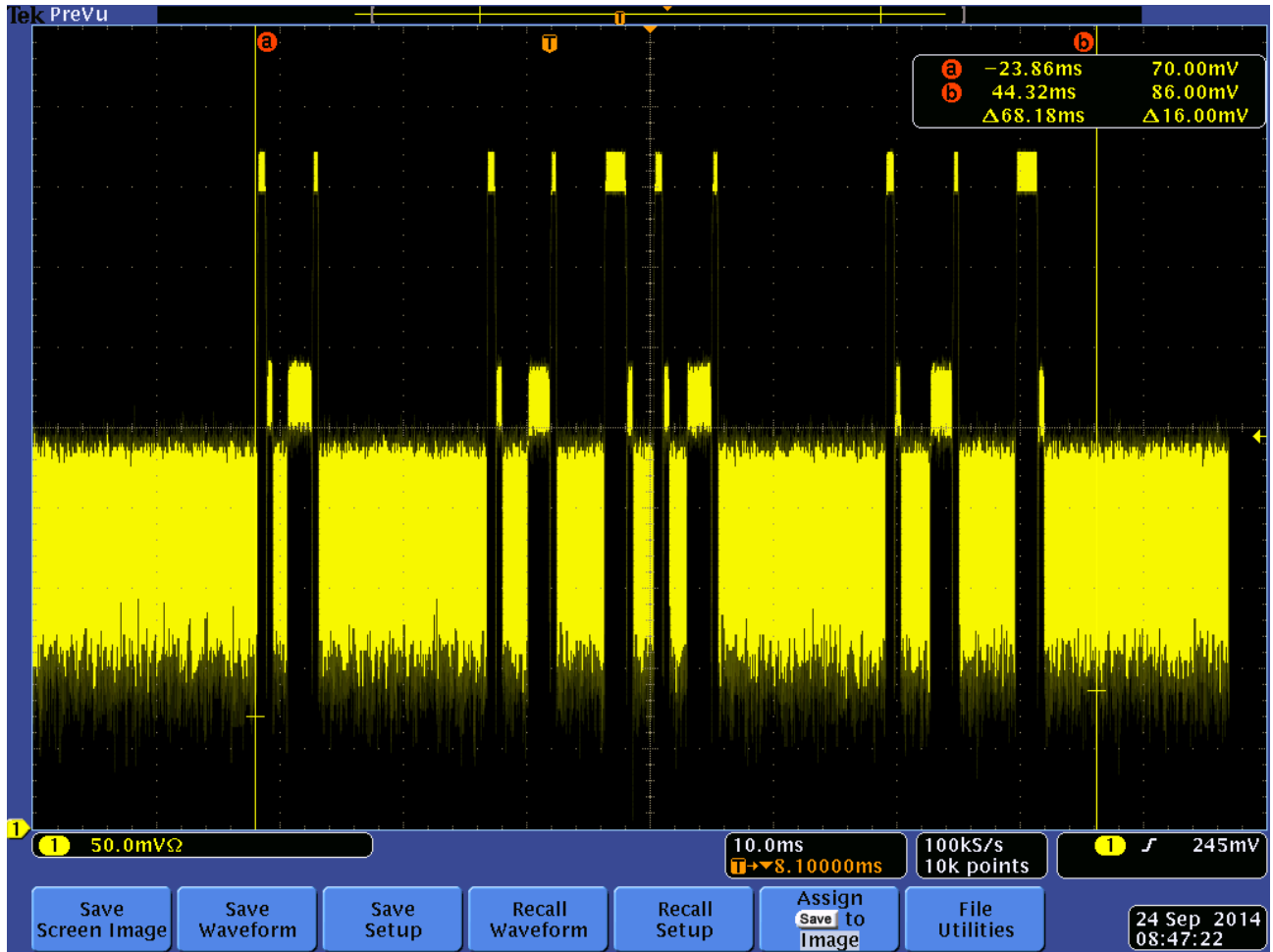


Delta 1 [T1] RBW 1 MHz RF Att 10 dB
Ref Lvl 0.49 dB VBW 3 MHz
92 dBV 68.136273 ms SWT 100 ms Unit dBV

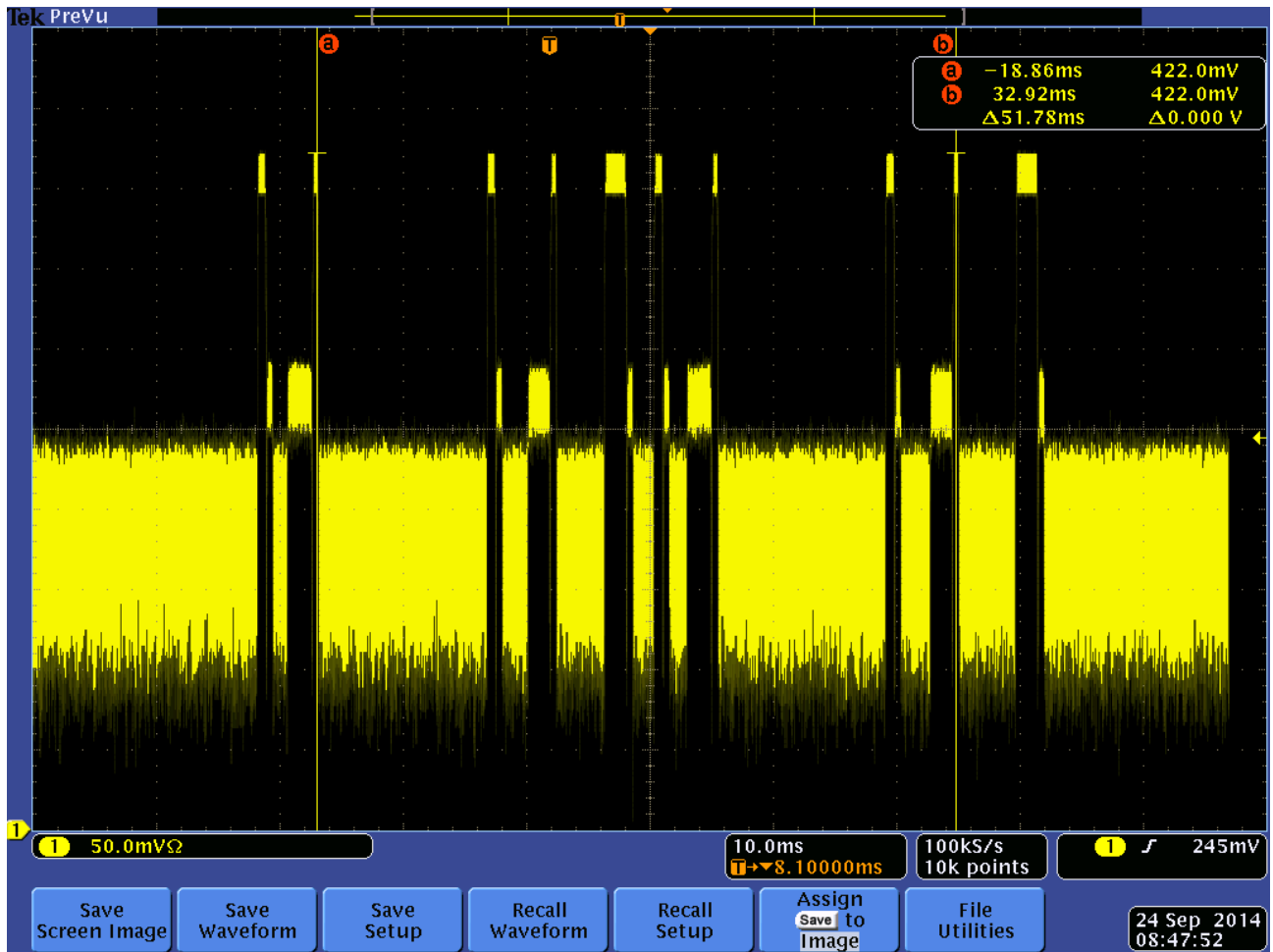


Date: 24.SEP.2014 08:03:19

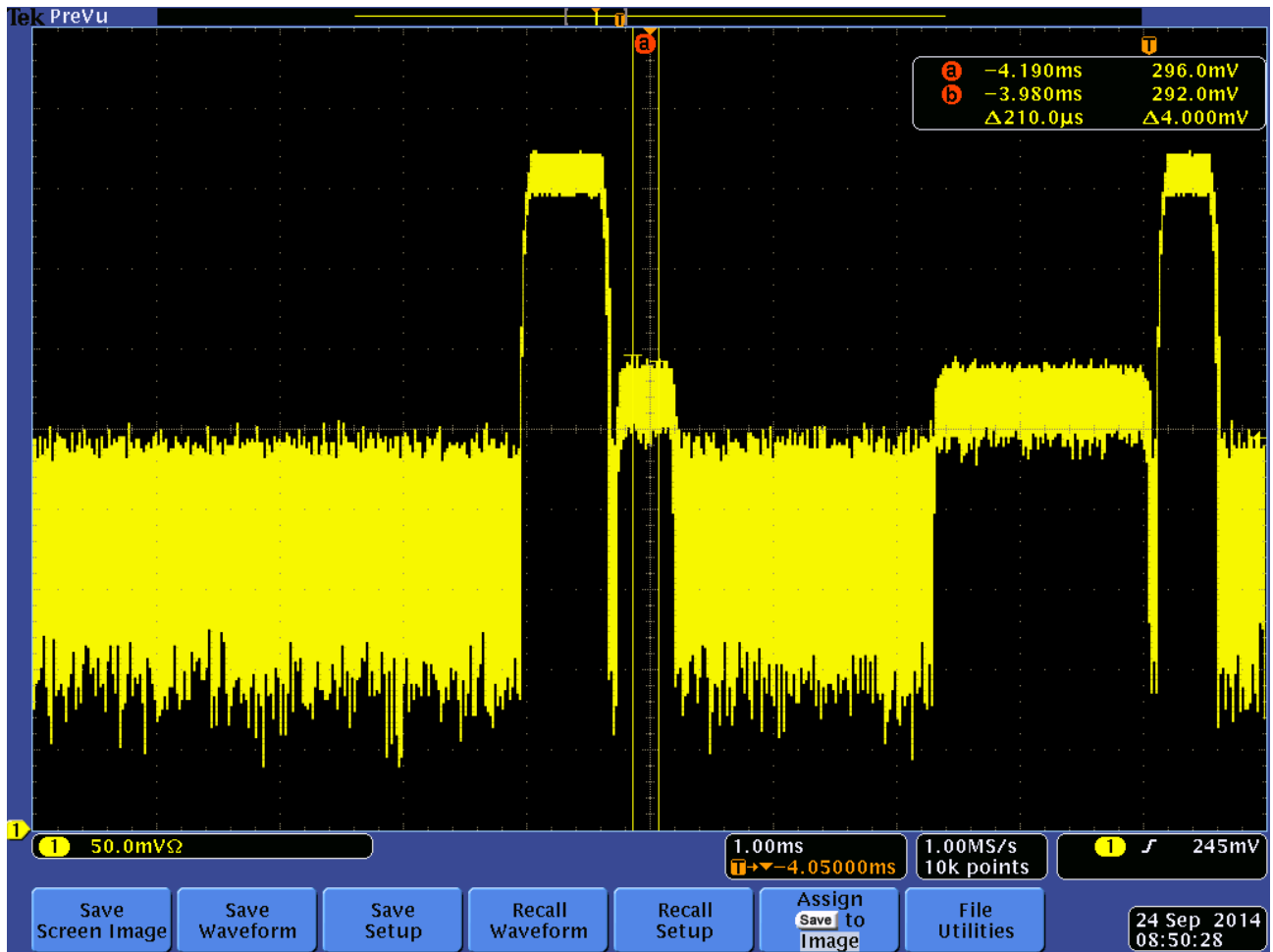
Pulse Train on a 100 ms Scale – Pairing Mode



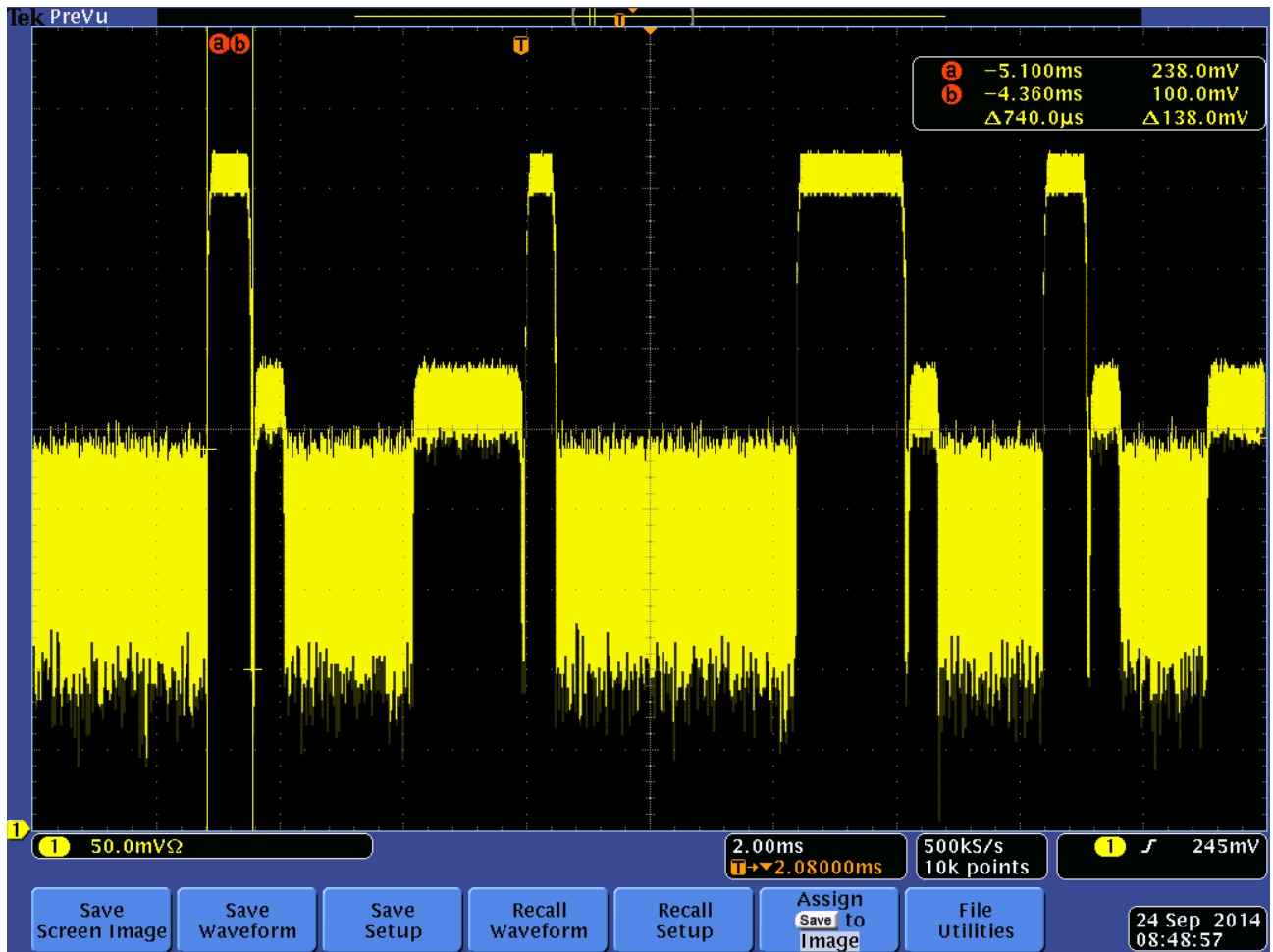
Pulse Train Shown Using the Oscilloscope – Pairing Mode



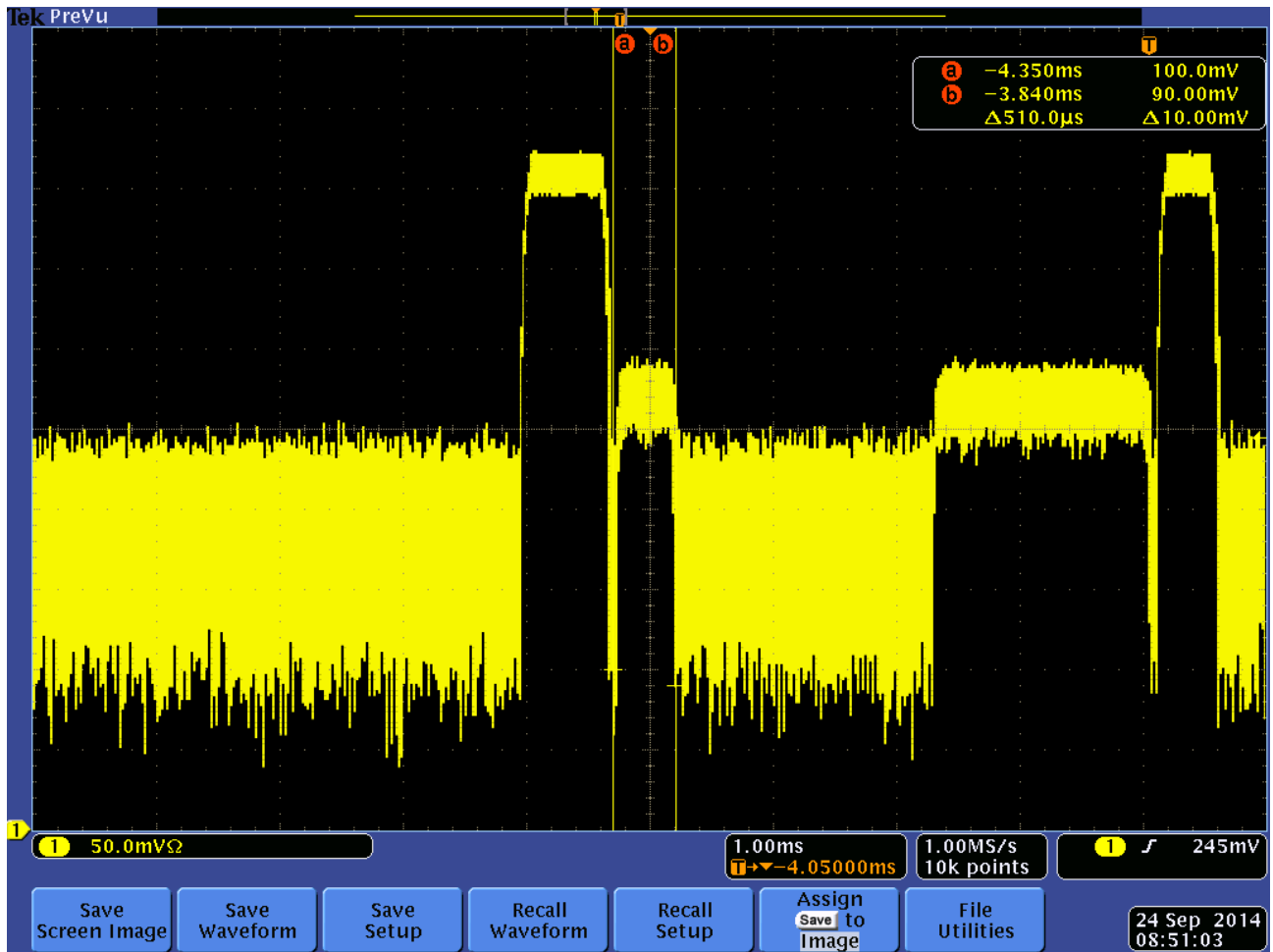
Maximum Voltage of High Pulses = 422 mV – Pairing Mode



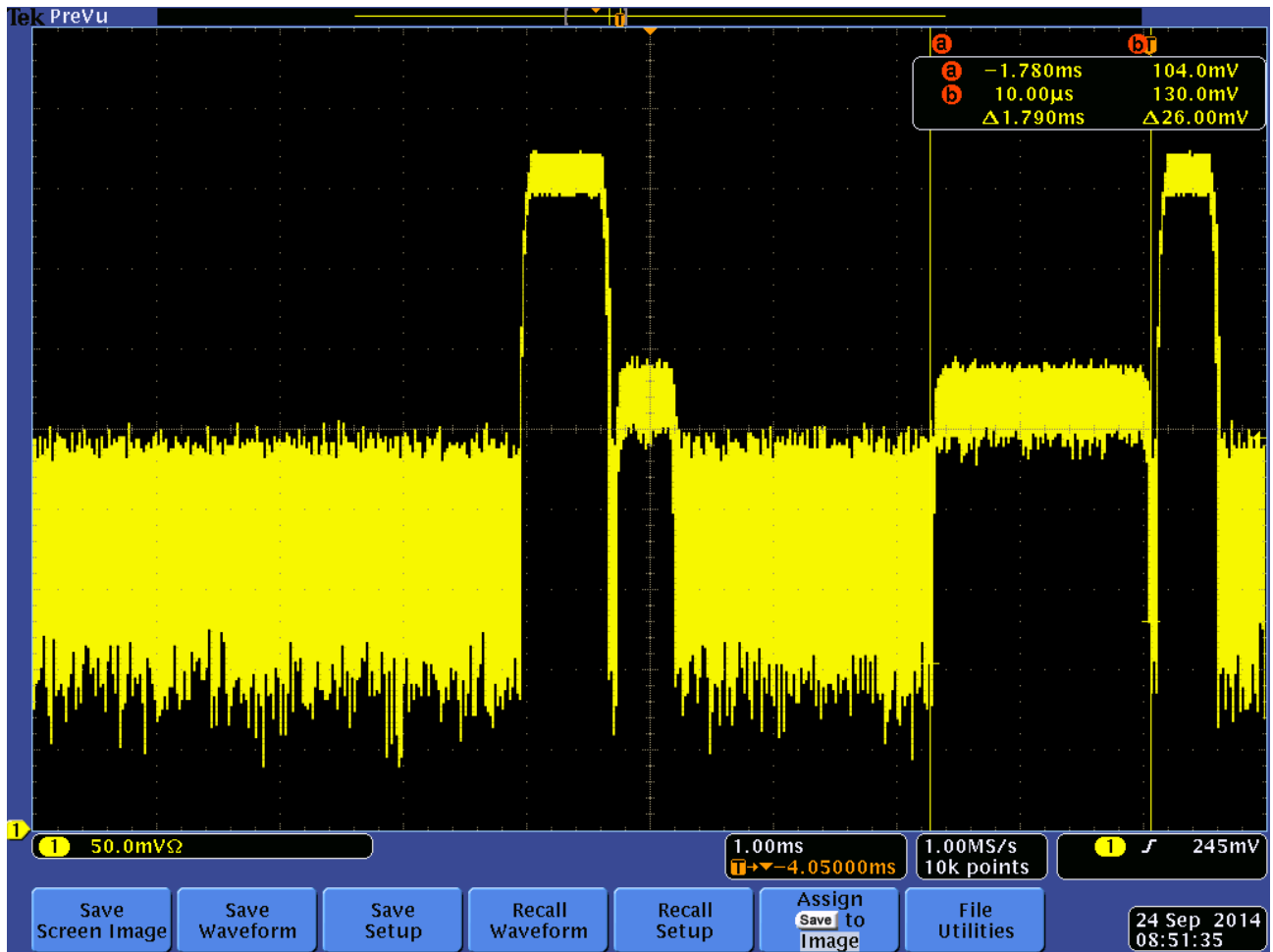
Maximum Voltage of Low Pulses = 296 mV – Pairing Mode



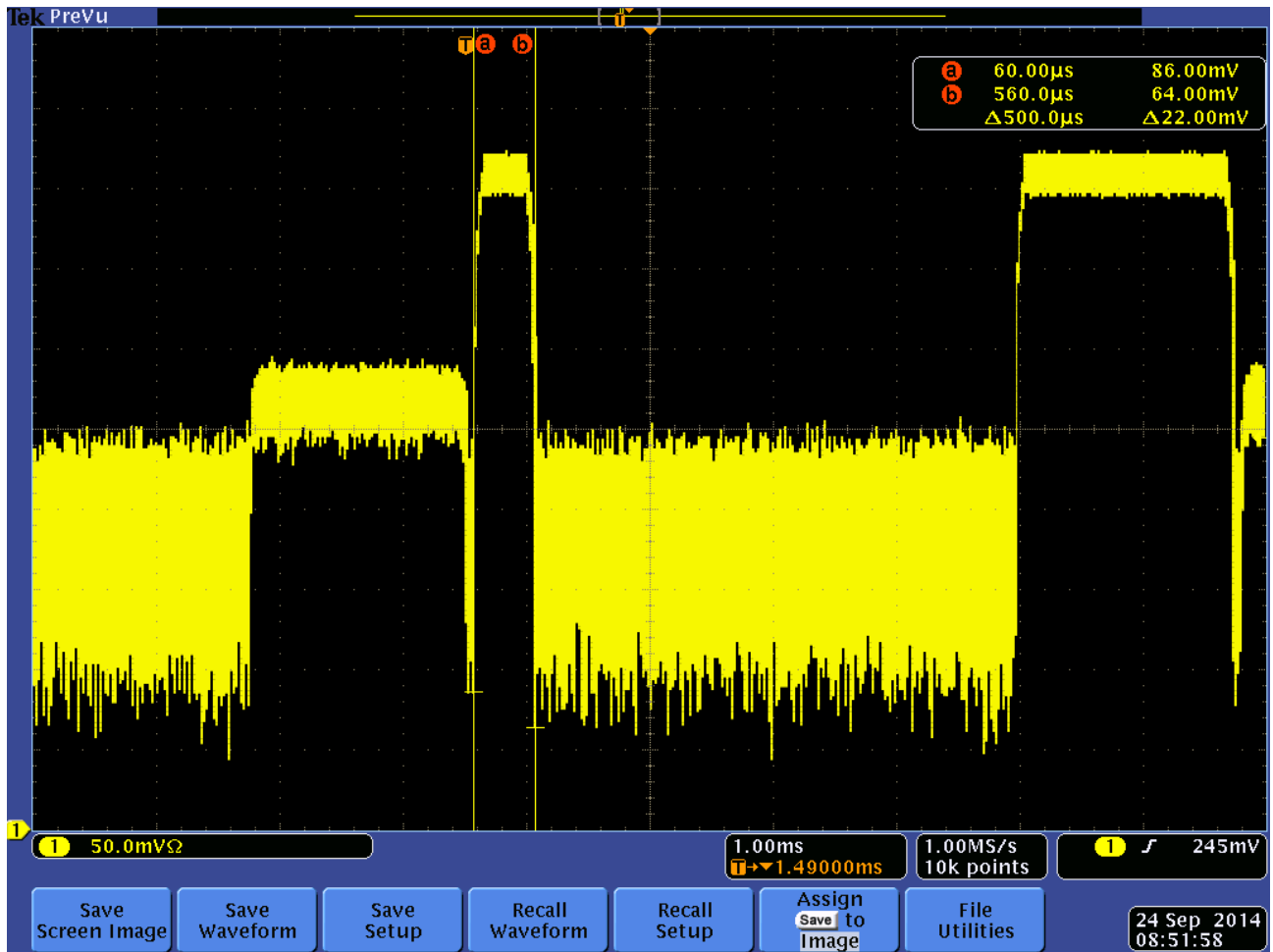
Pulse #1 and 5 = 740 us – Pairing Mode



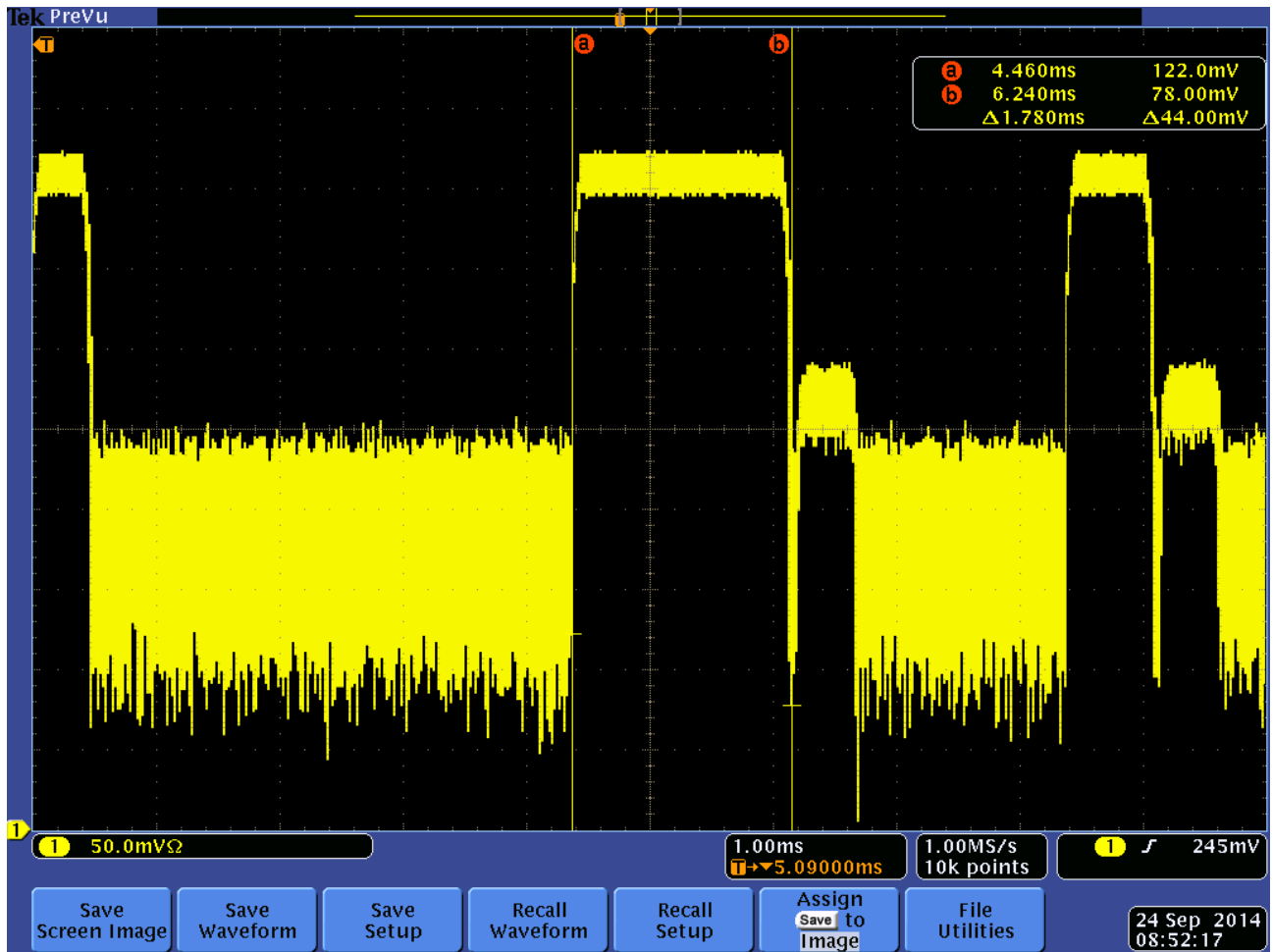
Pulse #2 and 6 = 510 us – Pairing Mode



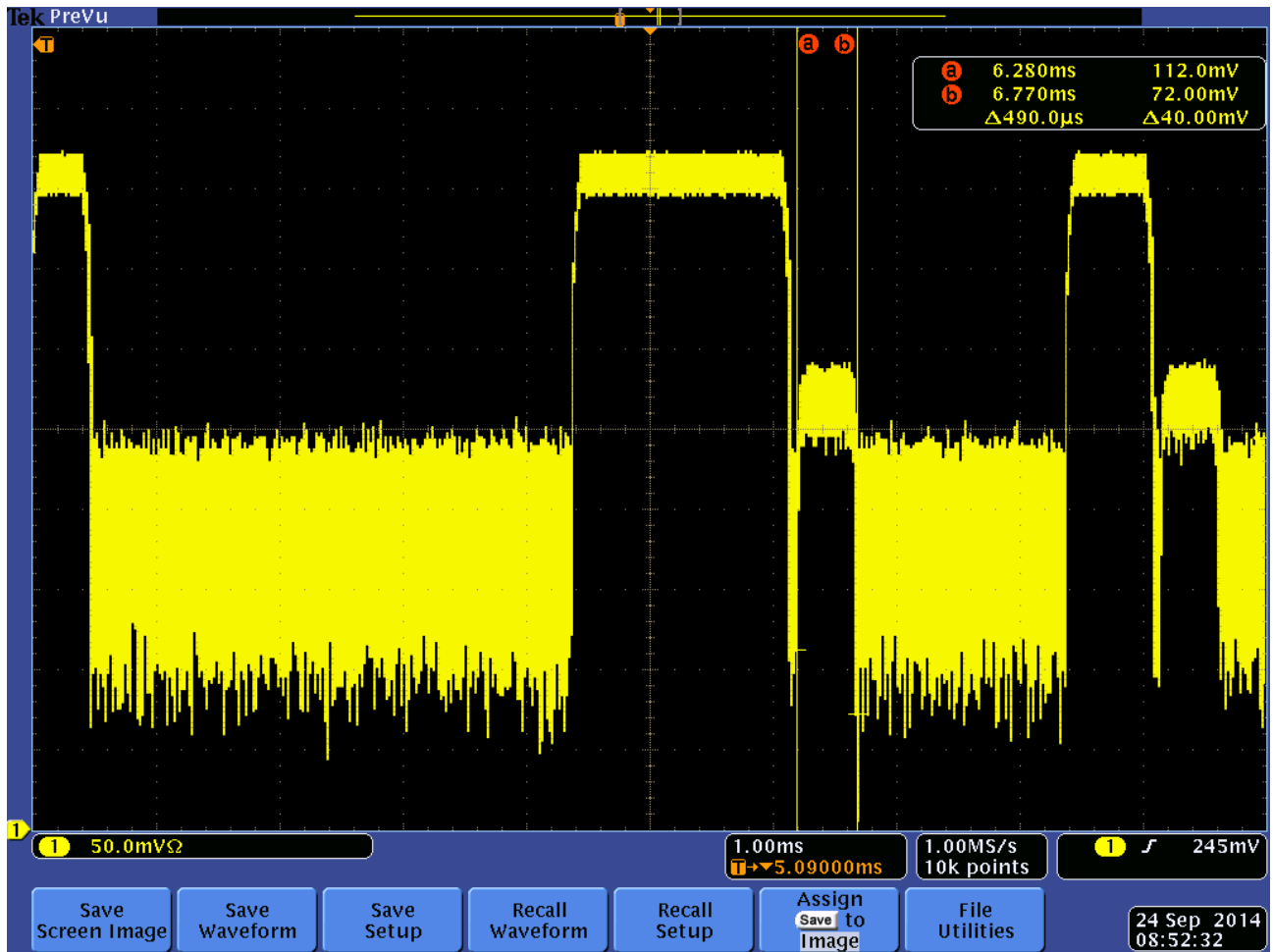
Pulse #3 and 7 = 1790 us – Pairing Mode



Pulse #4 and 8 = 500 us – Pairing Mode



Pulse #9 = 1780 us – Pairing Mode



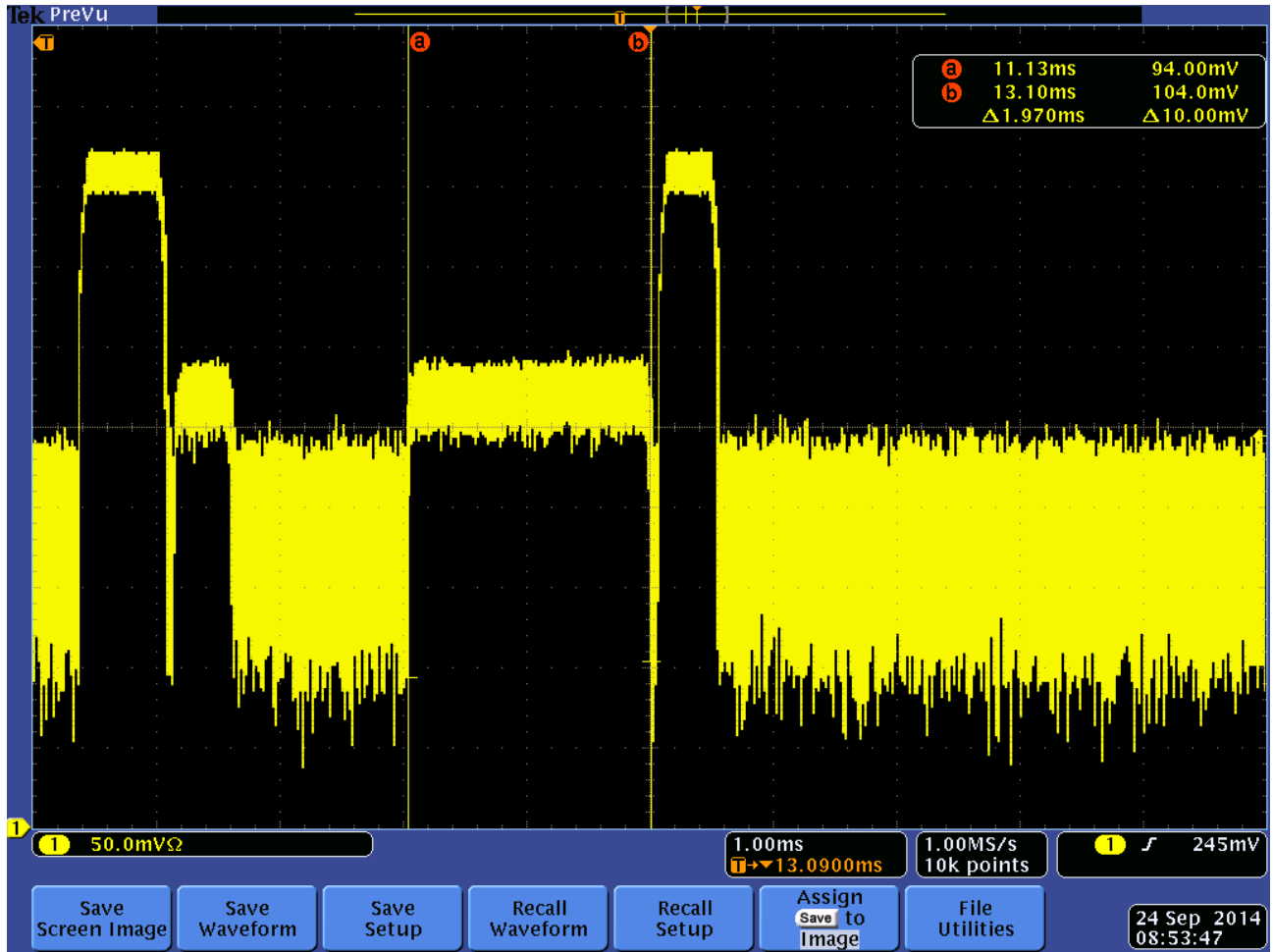
Pulse #10 = 490 us – Pairing Mode



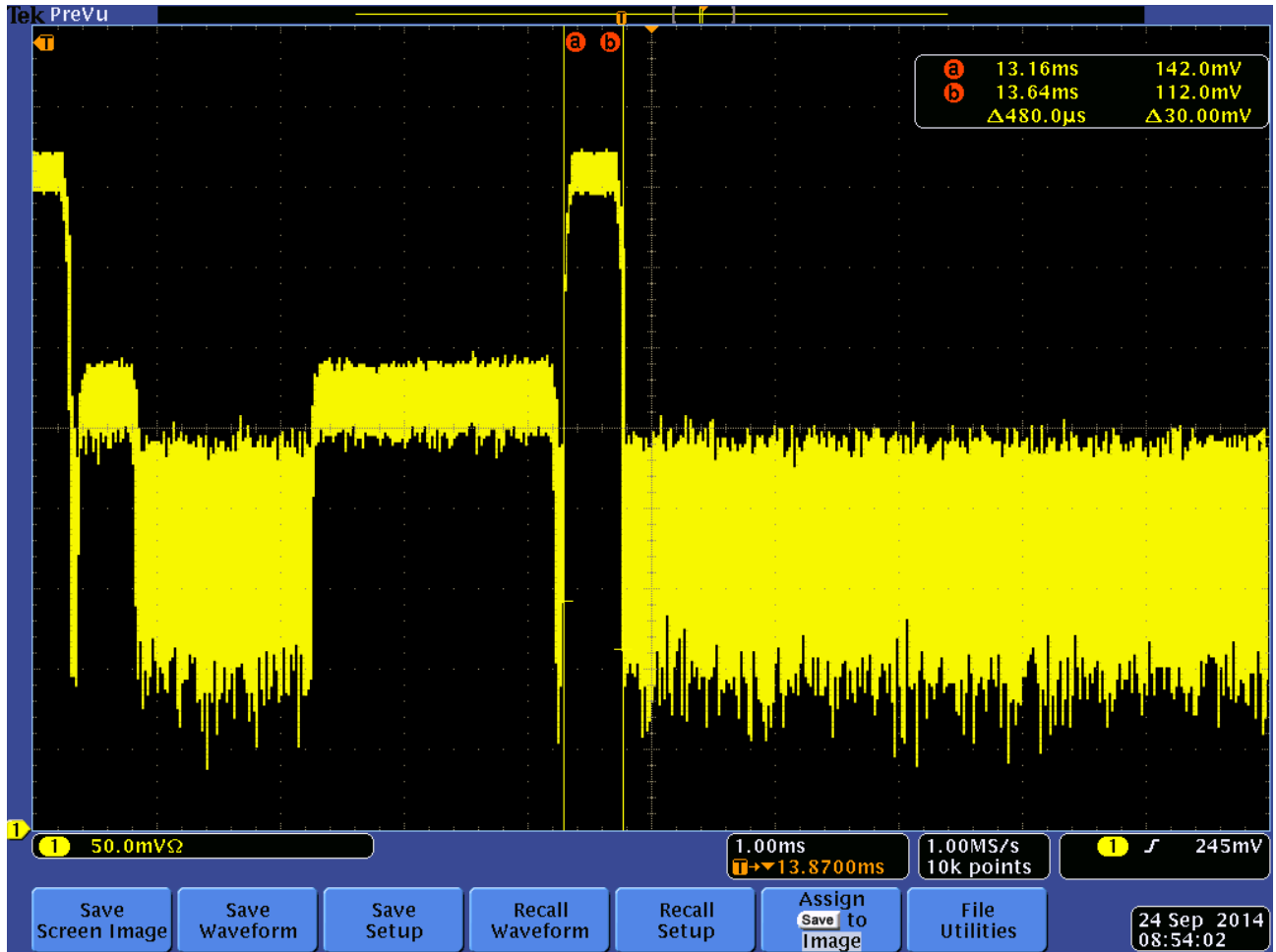
Pulse #11 = 770 us – Pairing Mode



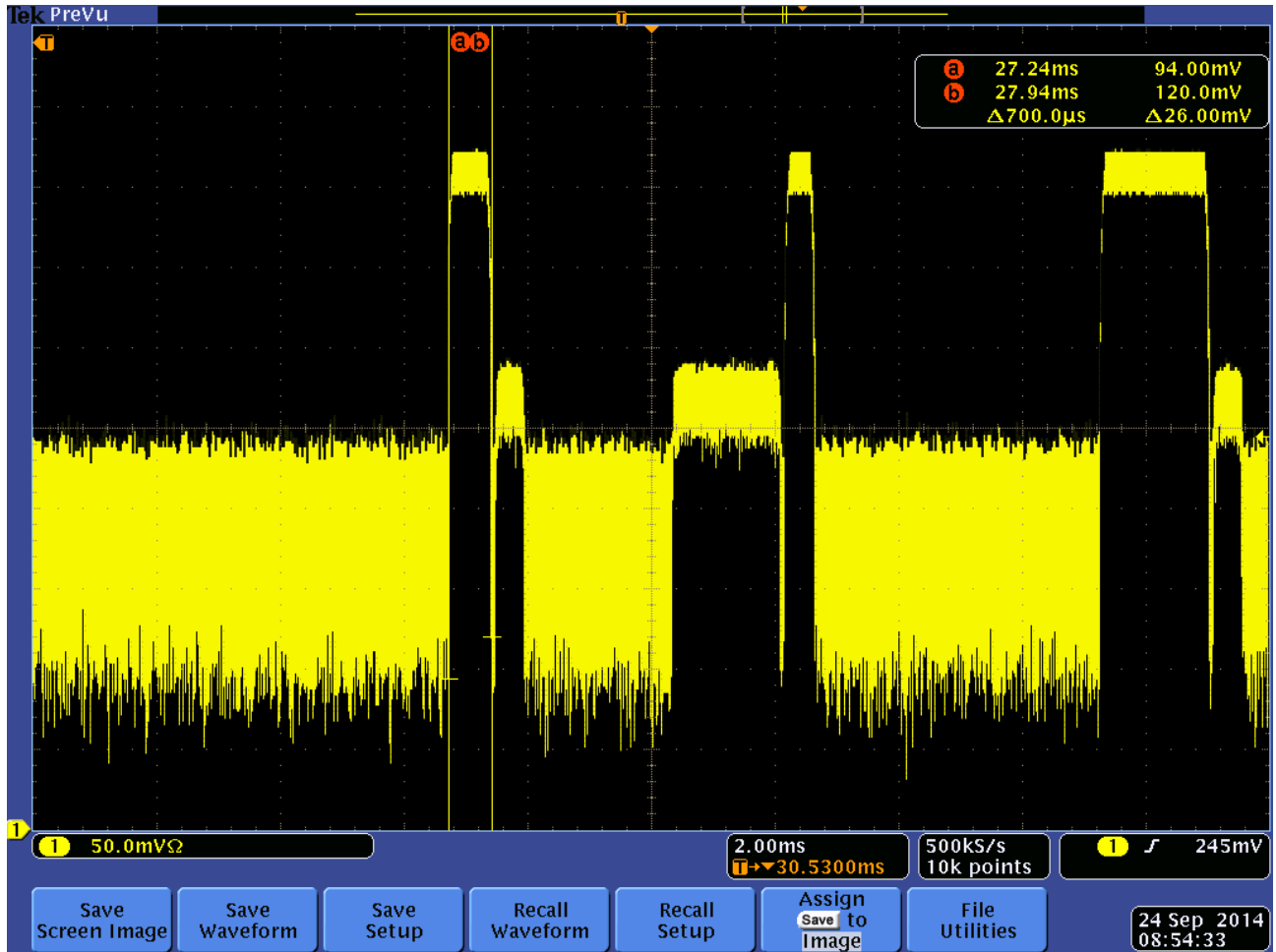
Pulse #12 = 500 us – Pairing Mode



Pulse #13 = 1970 us – Pairing Mode



Pulse #14 = 480 us – Pairing Mode



Pulse #15 = 700 us – Pairing Mode



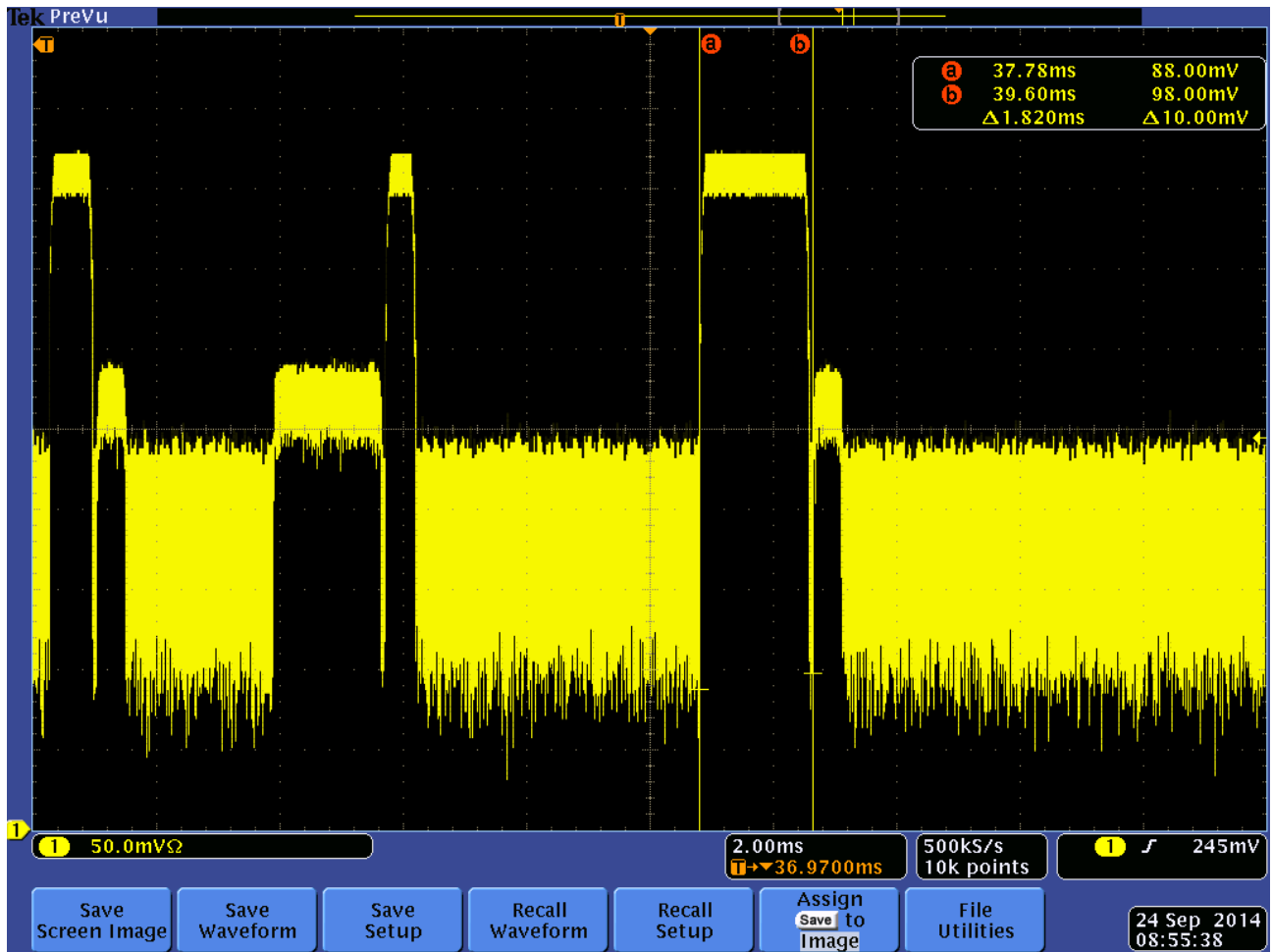
Pulse #16 = 500 us – Pairing Mode



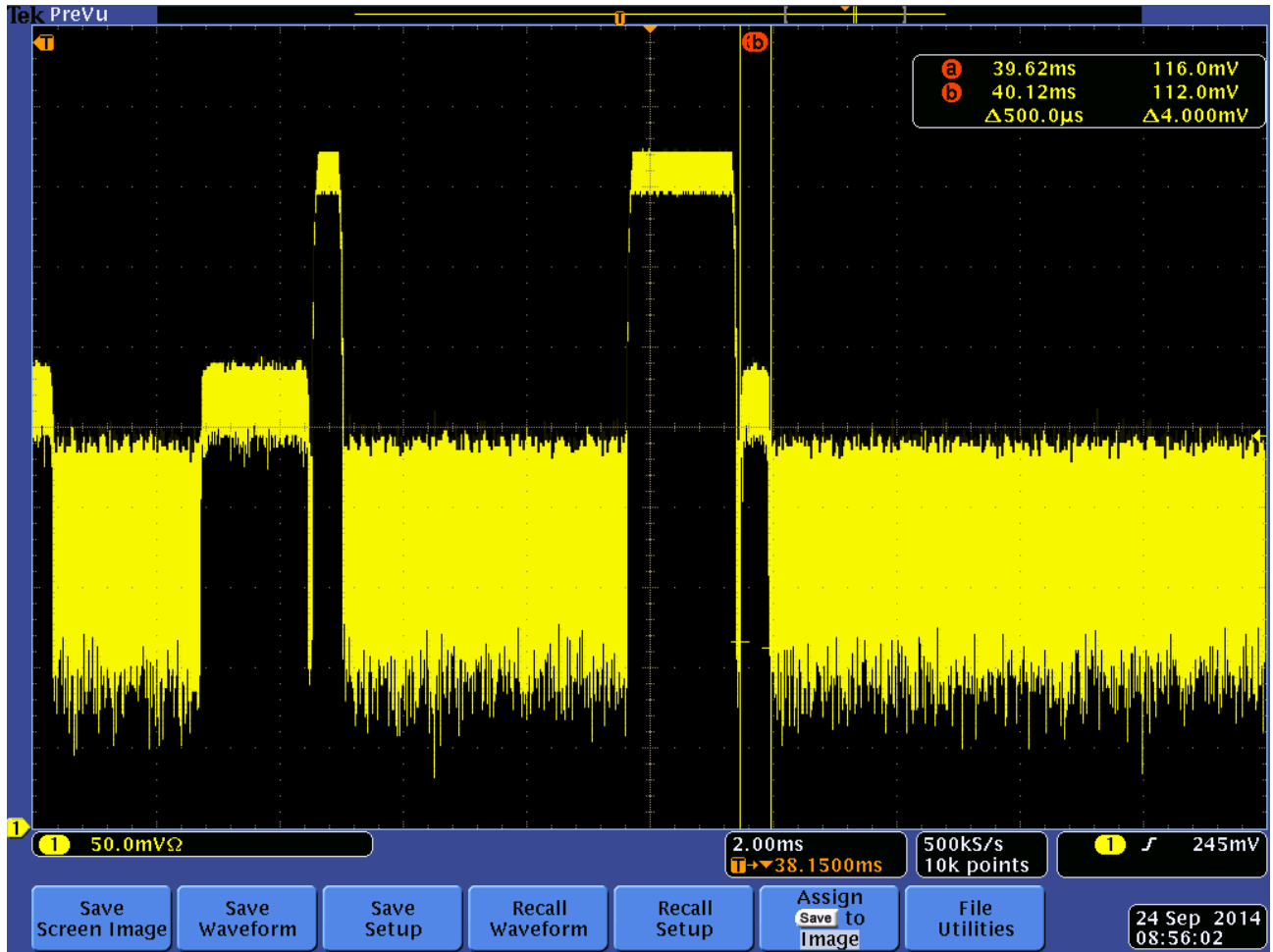
Pulse #17 = 1820 us – Pairing Mode



Pulse #18 = 580 us – Pairing Mode



Pulse #19 = 1820 us – Pairing Mode



Pulse #20 = 500 us – Pairing Mode

DUTY CYCLE INFORMATION – PAIRING MODE

UNIVERSAL ELECTRONICS, INC.

ECHOSTAR SAGE ZHA REMOTE 2014

MODEL: URC-2001BC0-R

PULSE NUMBER	Time (uS)
1 and 5	740
2 and 6	510
3 and 7	1790
4 and 8	500
9	1780
10	490
11	770
12	500
13	1970
14	480
15	700
16	500
17	1820
18	580
19	1820
20	500

Total On Time = 18,990 uS

Total Time of Pulse with Blanking Interval = 100,000 uS

Total Duty Cycle = 18.99 %

Peak to Average Ratio = 14.42 dB