THN198 Timing Schedule

Tx cycle: ch. 1 : 30s
ch. 2 : 29s
ch. 3 : 31s

The same packet will be sent two times, separated by 103 ms silent period. Each packet includes the followings:

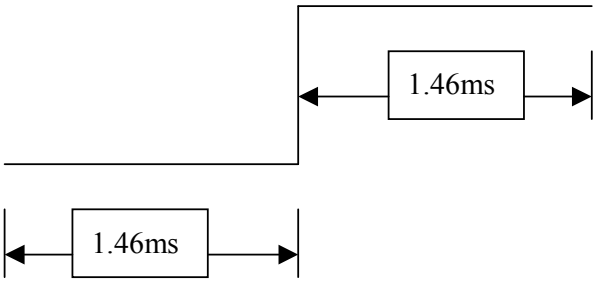
Header A : 12 pulse. Each pulse is 1.46 ms high and 1.46 ms low.

Silent period : 3 ms

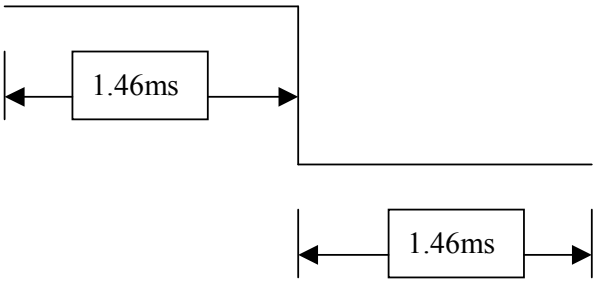
Header B : 1 pulse only with 5.5 ms high / 5.5 ms low

Data : 32 bits. Each pulse is 1.46 ms high and 1.46 ms low.

For the 32 bit data, bit '0' is shown as below,



For the 32 bit data, bit '1' is shown as below,



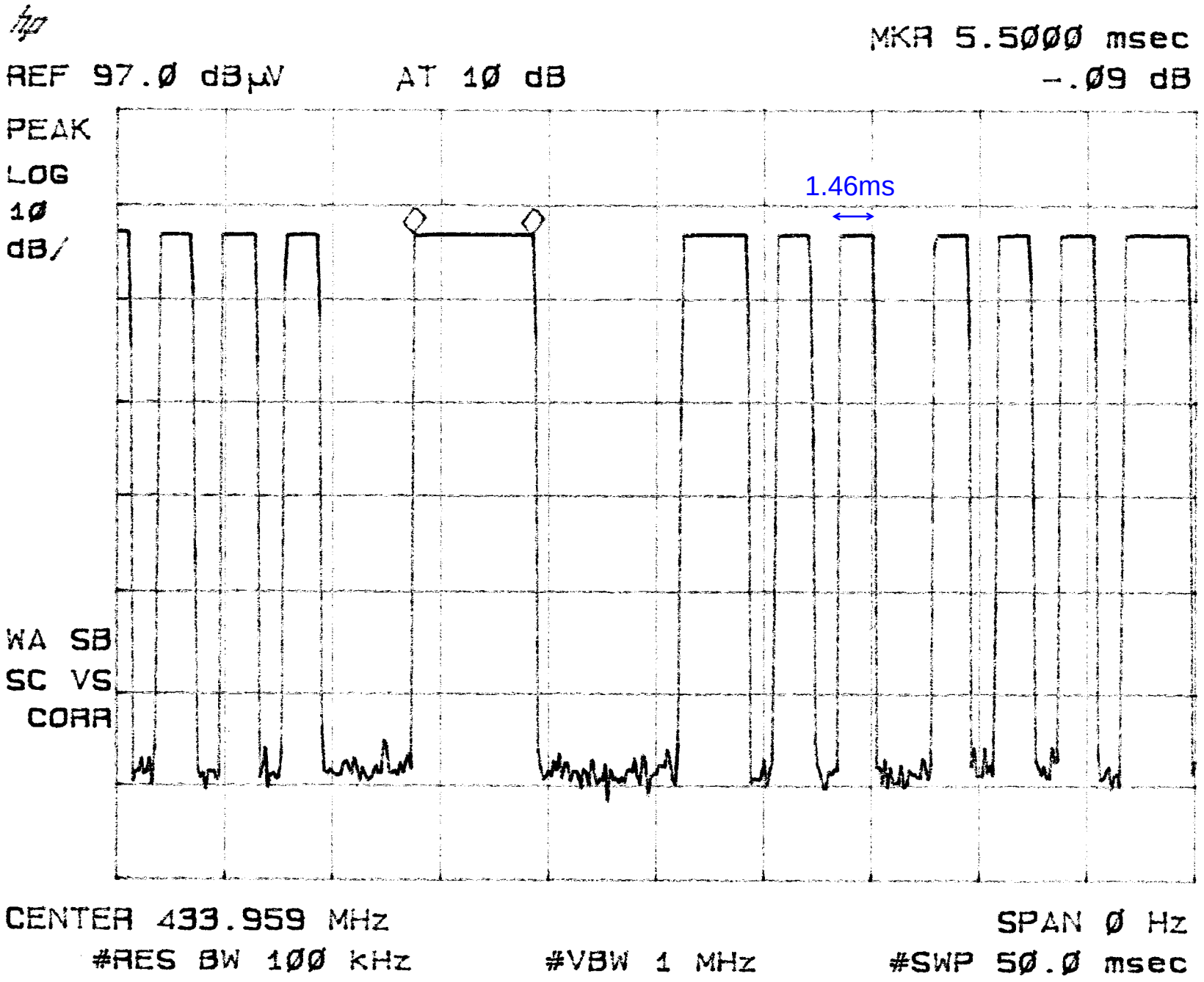
The followings show the 32 bits data stream at different temperature readings.

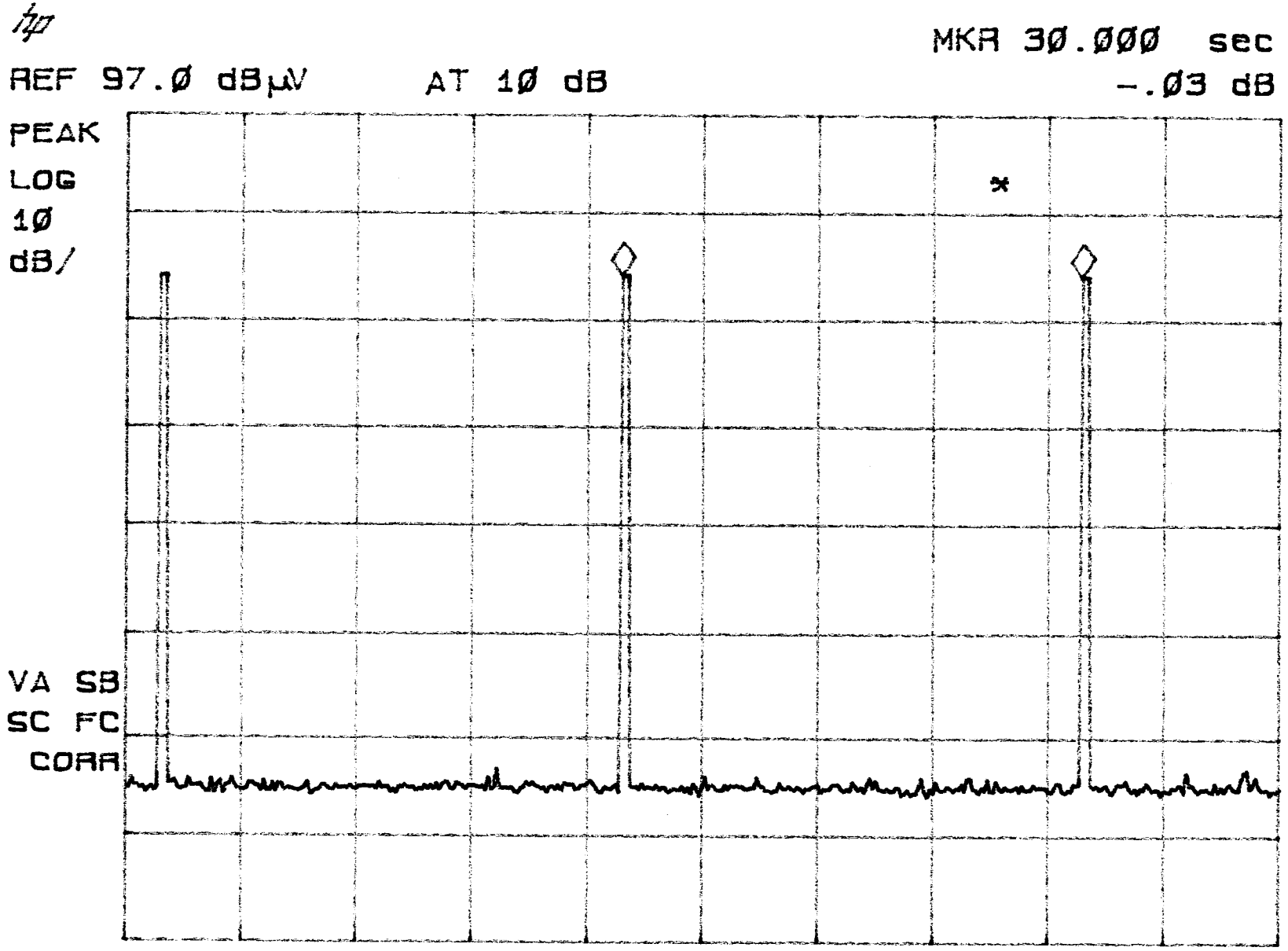
-20℃, 11100010100010000100010001011110

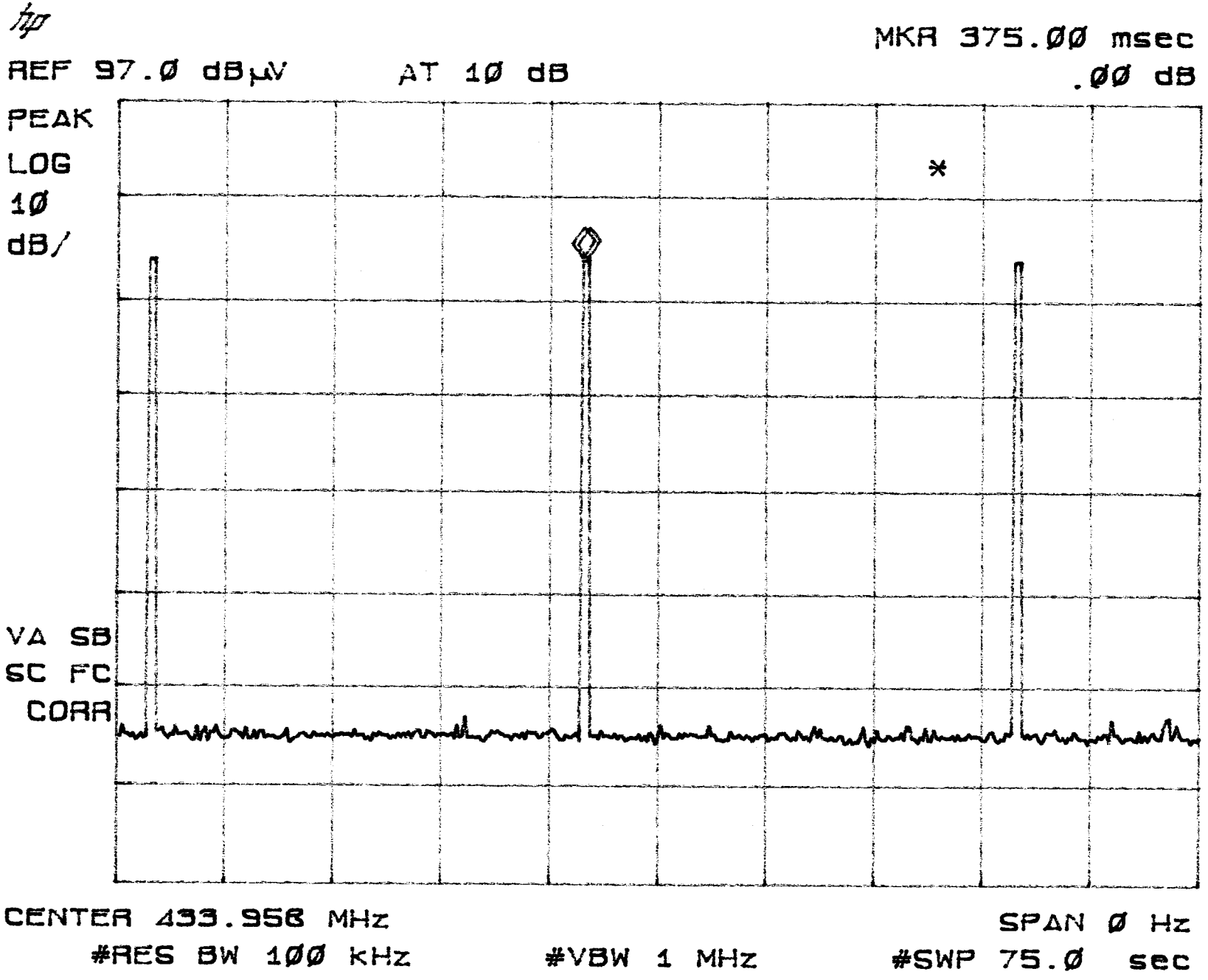
+60℃, 10110010110010011010000010100111

+30.5℃, 10100010011010010100000010111011

D.C = (5.5+1.46x30+1.4)/100
= 0.507
A.F = -5.9dB


MKR 5.5ØØØ msec
REF 97.Ø dBµV
AT 1Ø dB
-.Ø9 dB
PEAK
LOG
1Ø
dB/
1.46ms
WA SB
SC VS
CORR
CENTER 433.959 MHz
SPAN Ø Hz
#RES BW 1ØØ kHz
#VBW 1 MHz
#SWP 5Ø.Ø msec


MKR 30.000 sec
REF 97.0 dBµV
AT 10 dB
-.03 dB
PEAK
LOG
10
dB/
VA SB
SC FC
CORR
CENTER 433.958 MHz
SPAN 0 Hz
#RES BW 100 kHz
#VBW 1 MHz
#SWP 75.0 sec


hp
MKR 375.ØØ msec
REF 97.Ø dBµV
AT 1Ø dB
.ØØ dB
PEAK
LOG
1Ø
dB/
VA SB
SC FC
CORR
CENTER 433.956 MHz
SPAN Ø Hz
#RES BW 1ØØ kHz
#VBW 1 MHz
#SWP 75.Ø sec