FIG. 1

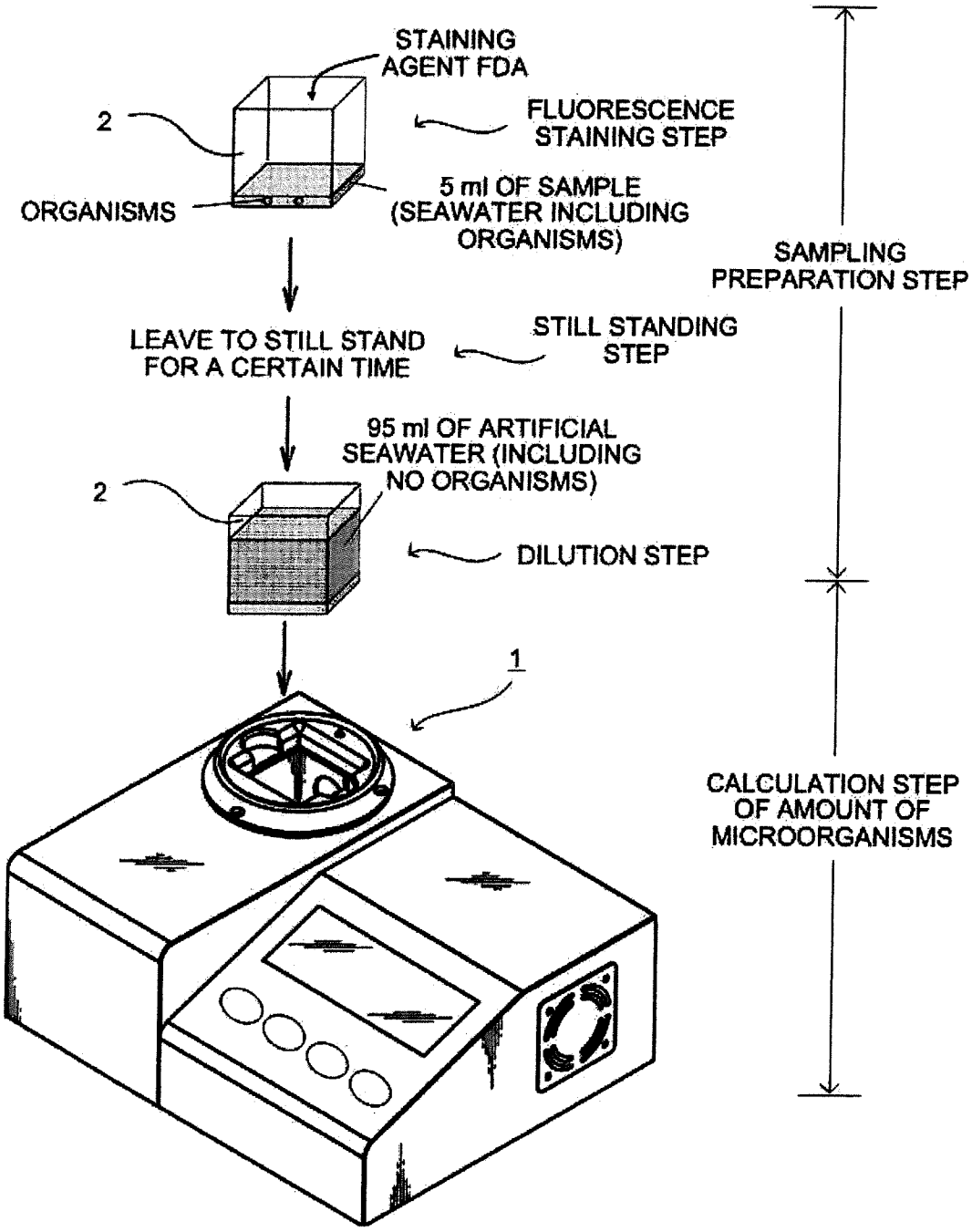

STAINING AGENT FDA
2
FLUORESCENCE STAINING STEP
ORGANISMS
5 ml OF SAMPLE (SEAWATER INCLUDING ORGANISMS)
SAMPLING PREPARATION STEP
LEAVE TO STILL STAND FOR A CERTAIN TIME
STILL STANDING STEP
95 ml OF ARTIFICIAL SEAWATER (INCLUDING NO ORGANISMS)
2
DILUTION STEP
1
CALCULATION STEP OF AMOUNT OF MICROORGANISMS

FIG. 2

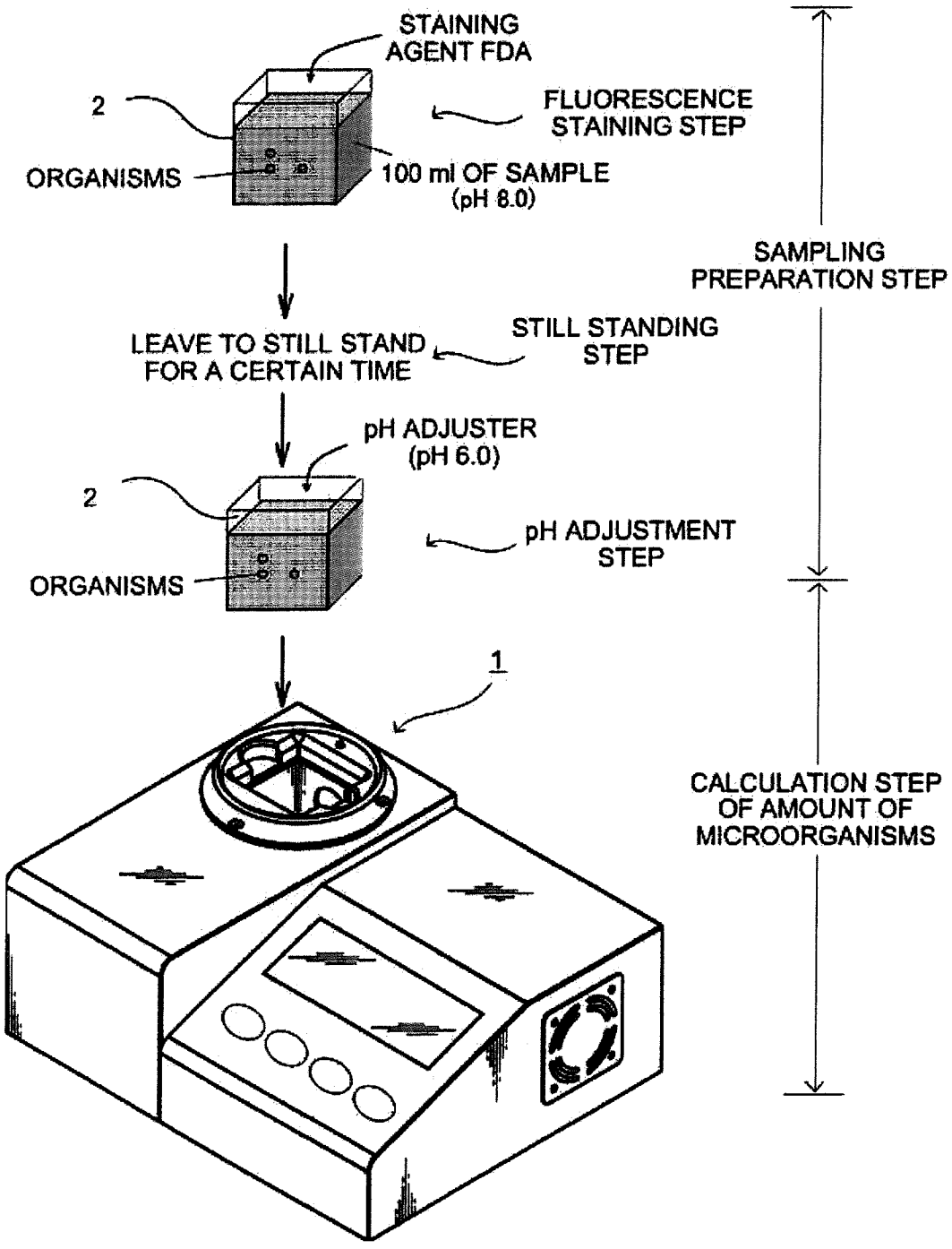

STAINING AGENT FDA
2
FLUORESCENCE STAINING STEP
ORGANISMS
100 ml OF SAMPLE (pH 8.0)
SAMPLING PREPARATION STEP
LEAVE TO STILL STAND FOR A CERTAIN TIME
STILL STANDING STEP
pH ADJUSTER (pH 6.0)
2
pH ADJUSTMENT STEP
ORGANISMS
1
CALCULATION STEP OF AMOUNT OF MICROORGANISMS

FIG. 3

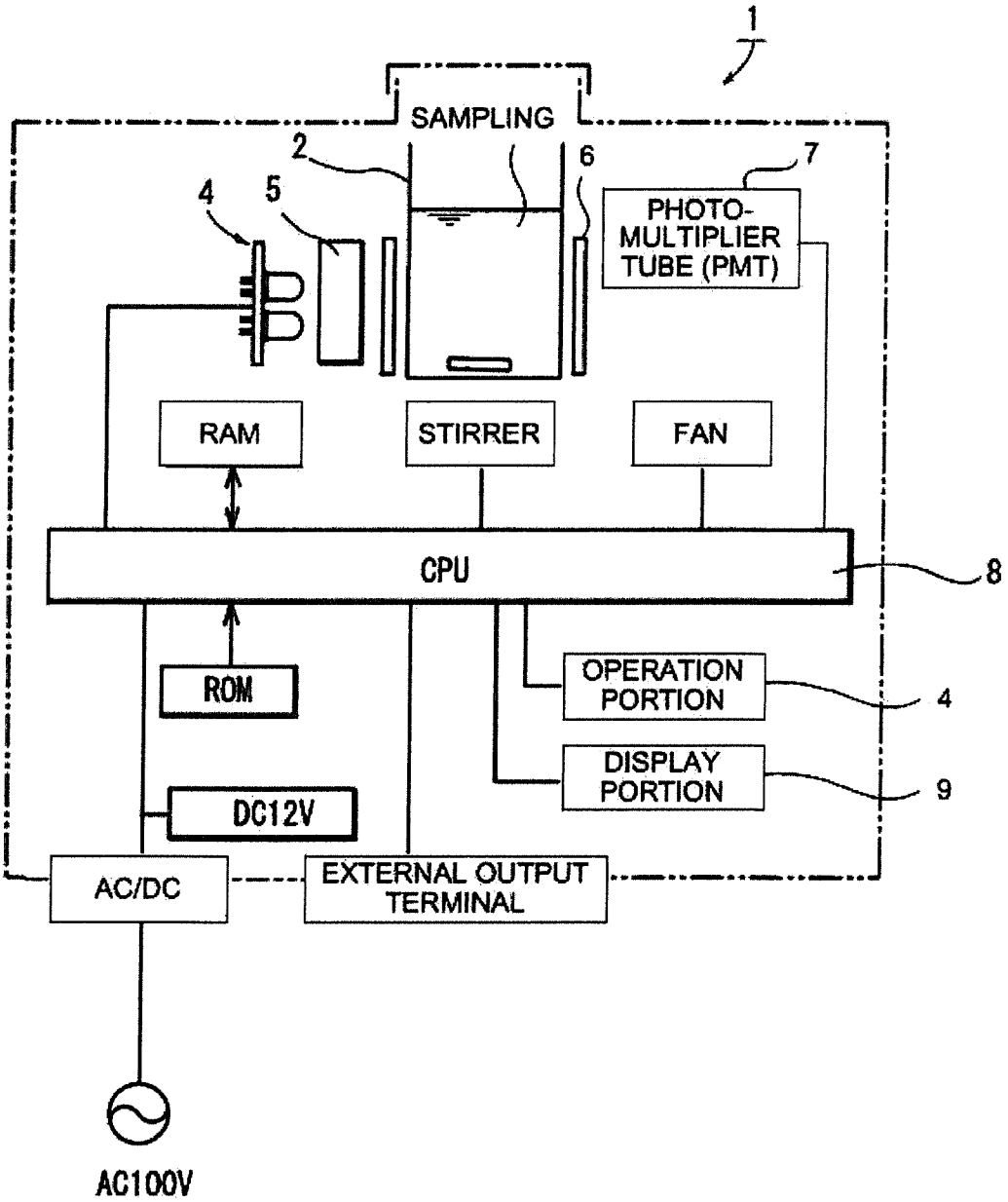

1
SAMPLING
2
6
7
4
5
PHOTO-
MULTIPLIER
TUBE (PMT)
RAM
STIRRER
FAN
CPU
8
ROM
OPERATION
PORTION
4
DISPLAY
PORTION
9
DC12V
AC/DC
EXTERNAL OUTPUT
TERMINAL
AC100V

FIG. 4

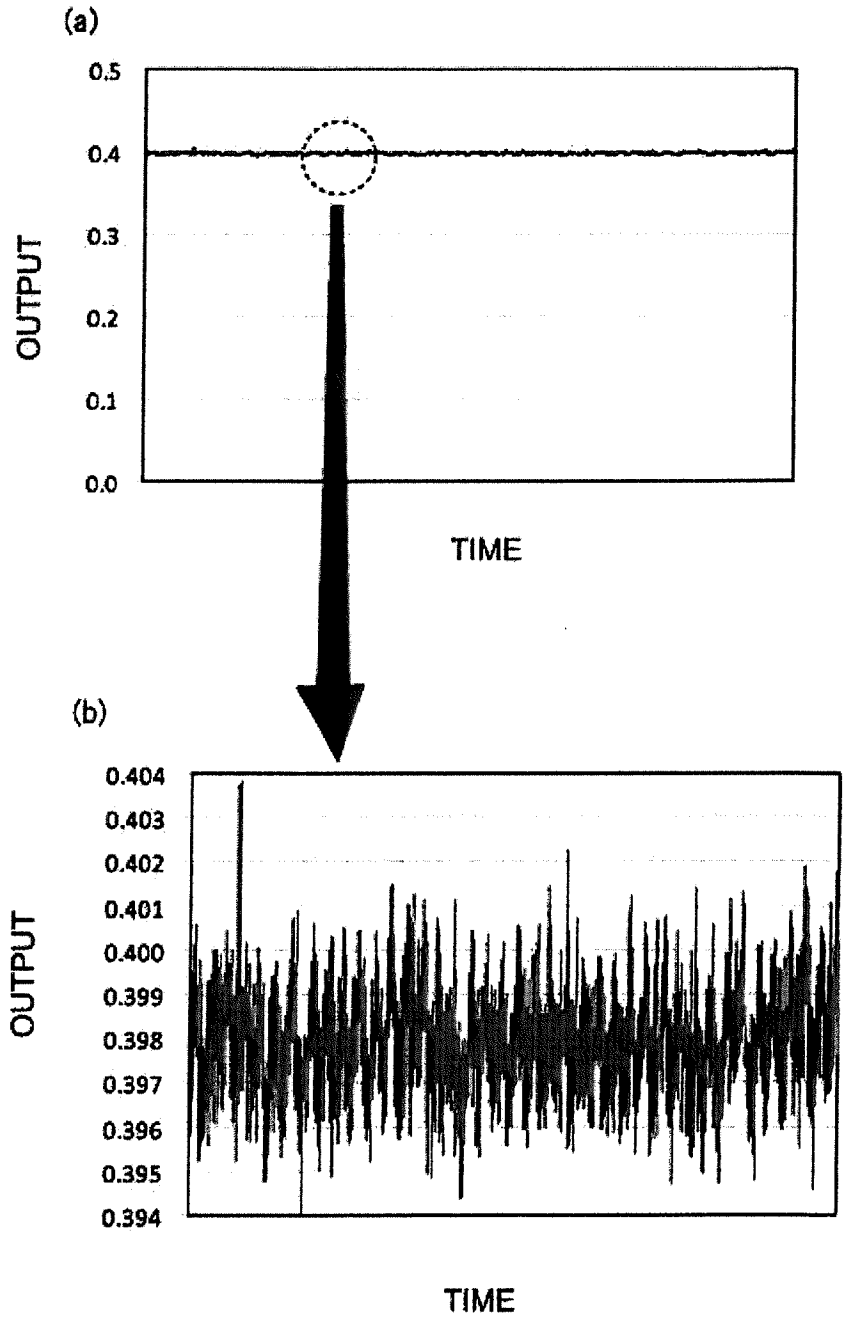

(a)
0.5
0.4
0.3
0.2
0.1
0.0
OUTPUT
TIME
(b)
0.404
0.403
0.402
0.401
0.400
0.399
0.398
0.397
0.396
0.395
0.394
OUTPUT
TIME

FIG. 5

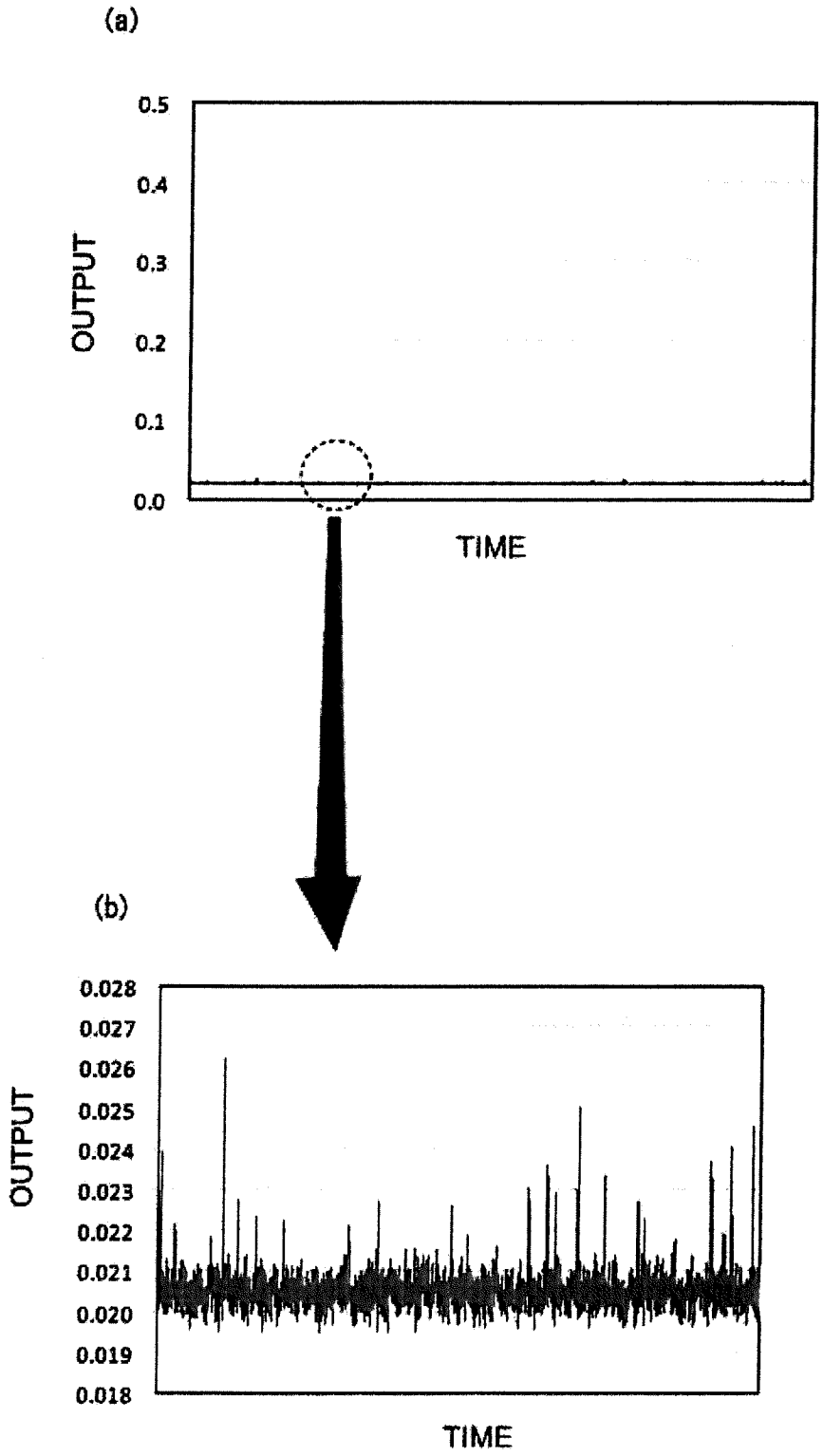
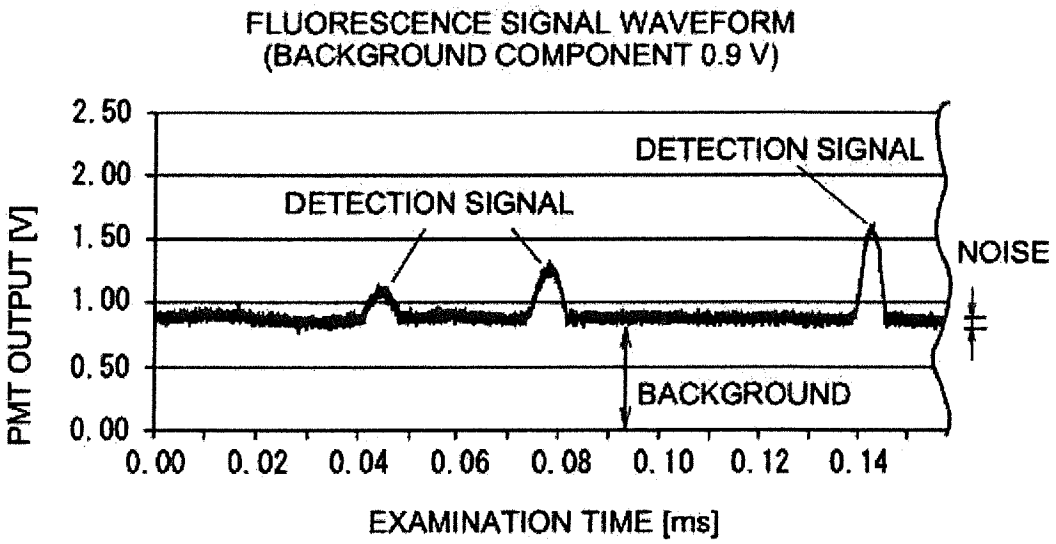

(a)
0.5
0.4
0.3
0.2
0.1
0.0
OUTPUT
TIME
(b)
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.020
0.019
0.018
OUTPUT
TIME

FIG. 6


FLUORESCENCE SIGNAL WAVEFORM
(BACKGROUND COMPONENT 0.9 V)
PMT OUTPUT [V]
2.50
2.00
1.50
1.00
0.50
0.00
DETECTION SIGNAL
DETECTION SIGNAL
NOISE
BACKGROUND
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
EXAMINATION TIME [ms]