SAPE-KIT

ALT2000

SAPE

SAPE-KIT   ALT2000

SAPE-Kit   ALT-2000,
               ,   .
                              SAPE-Kit   xDSL
                    "   ".

PC software utility

RS232 link

Line under test

Hardware Key

SAPE-KIT   ,
   ALT2000
xDSL.
SAPE-KIT   (metallics
transmissives),   ALT2000.

Collection Measurements:
-
-
-
-
-                         20 – 1100
-                      20 – 1100
-                   20 – 1100
-                    20 – 1100
-                                       ADSL
-         **
-              (3   : 6500, 2500, 325   )

Metallics Measurements (   ):
                         ,   ,   ,   (3   ),   **

Transmissives Measurements (   ):
                    , Next,   ,
                                          : VOICE, MODEM 56k, ISDN, HDSL 1P, HDSL 2P, E1, T1, ADSL
G.Lite, ADSL PLUS, ADSL 2PLUS, ADSL 2M, ADSL FULL, SDSL, G.SHDSL   ADSL Bit-Rate
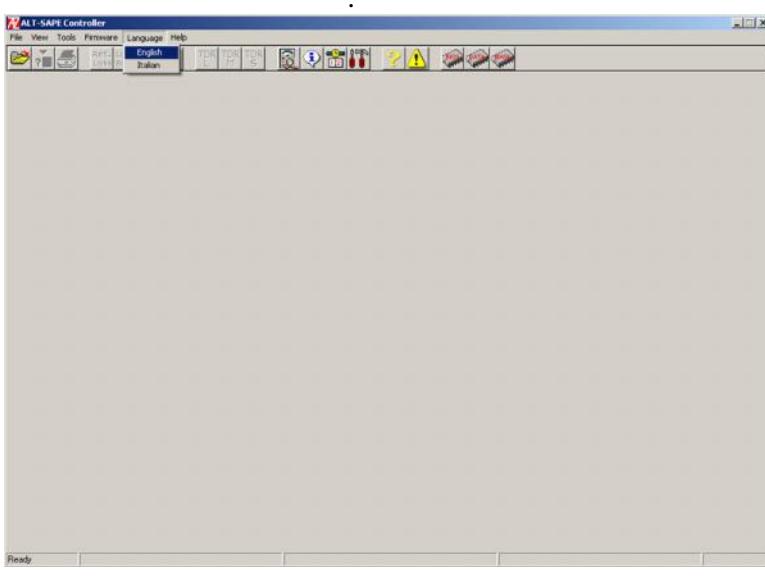
20 – 1100   40   (ISDN), 150   (HDSL,
SDSL)   300   (ADSL).

        *:
                                                                                ,
        (,   ,   ).
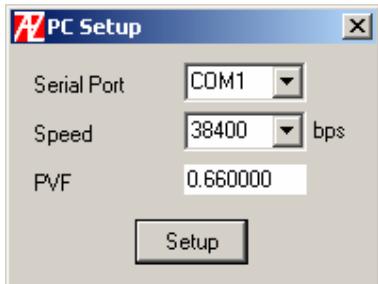
        **:
                                                                PVF (
)

                                    :
•   Windows 98
•   ALT2000   POTS,   Hardware-Key
•   RS232

                                    :
•   ,   ALT2000,   Release 6.05
        .

•   "ALT-SAPE Controller"

                    :
•   ALT2000   Hardware-Key   ,
                        ,   "ALT2000-SAPE Mode Advanced Line
    Tester Versione Software 6.05 (   )"   Hardware-Key
•   ALT2000   RS232
•   "alt_ctrl.exe"
                                                        .   Language
                    :

- • "ALT-SAPE Controller" , COM ,
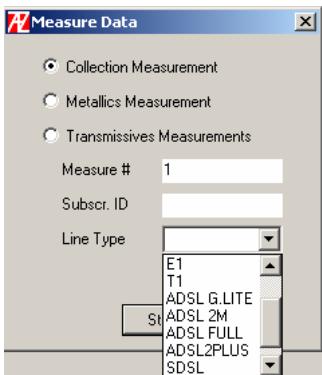
(38400 bps) ,
.
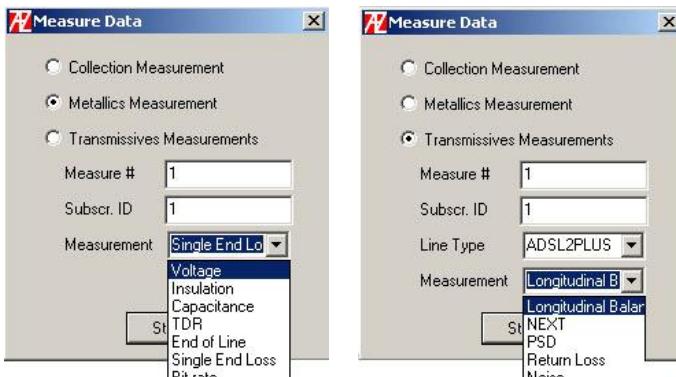
- • RXT

- • "ALT-SAPE Controller"
, "Collection Measurement"
. .
"Subscr ID" (– 1).
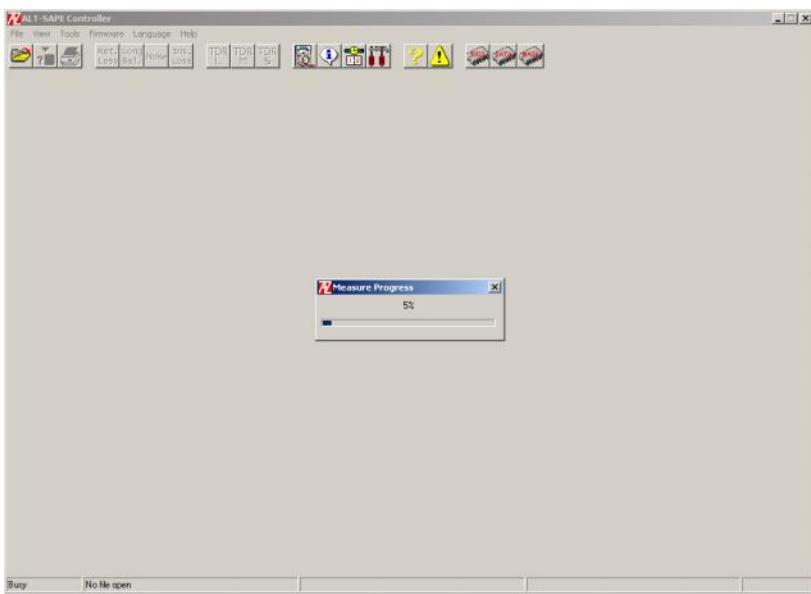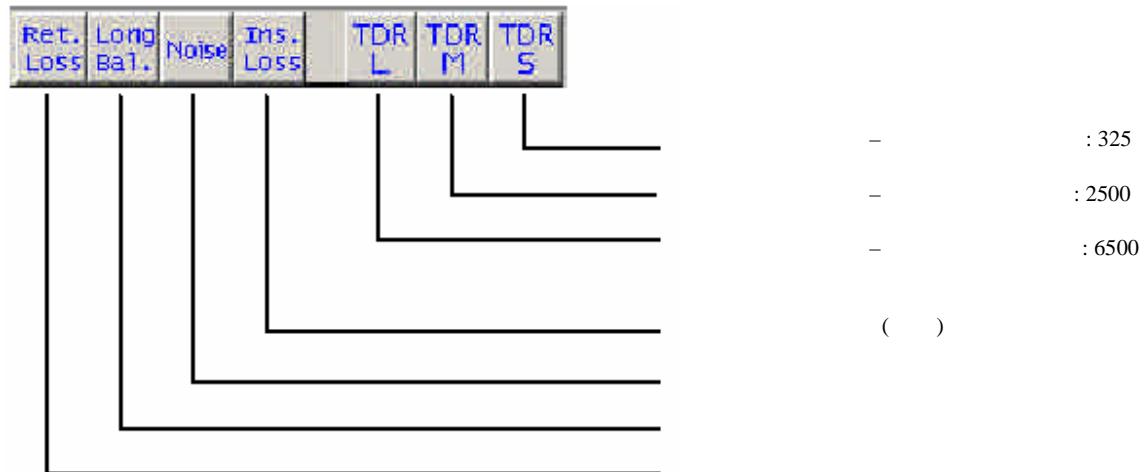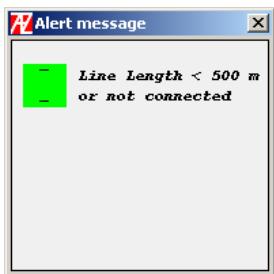
- • Metallics Measurement
, Transmissives Measurement
.

- • **Start** ("Collection
Measurement" ADSL FULL)

:

.

:
"Alert message"
.

:

– : 325

– : 2500

– : 6500

( )

```
11:16:12 30/06/2006

End of Line= 1202 m

Downstream = 7104 kbps
Upstream   =  800 kbps

V a-b   =    0.1  Vdc
V a-gnd =    0.1  Vdc
V b-gnd =    0.1  Vdc
V ac    =    0.1  Vrms

R a-b   =   516   MOhm
R a-gnd >  1000   MOhm
R b-gnd >  1000   MOhm
R b-a   =   332   MOhm

C_dc    =    0.09 uF
C a-b   =   77.2  nF
C a-gnd =  389    pF
C b-gnd =  397    pF

Q a-b   =   15.3
Q a-gnd >  100
Q b-gnd >  100
```

ADSL

,

a-b   gnd

,

a-b   gnd

,   1

a-b   gnd

Q-   ,   1

a-b   gnd
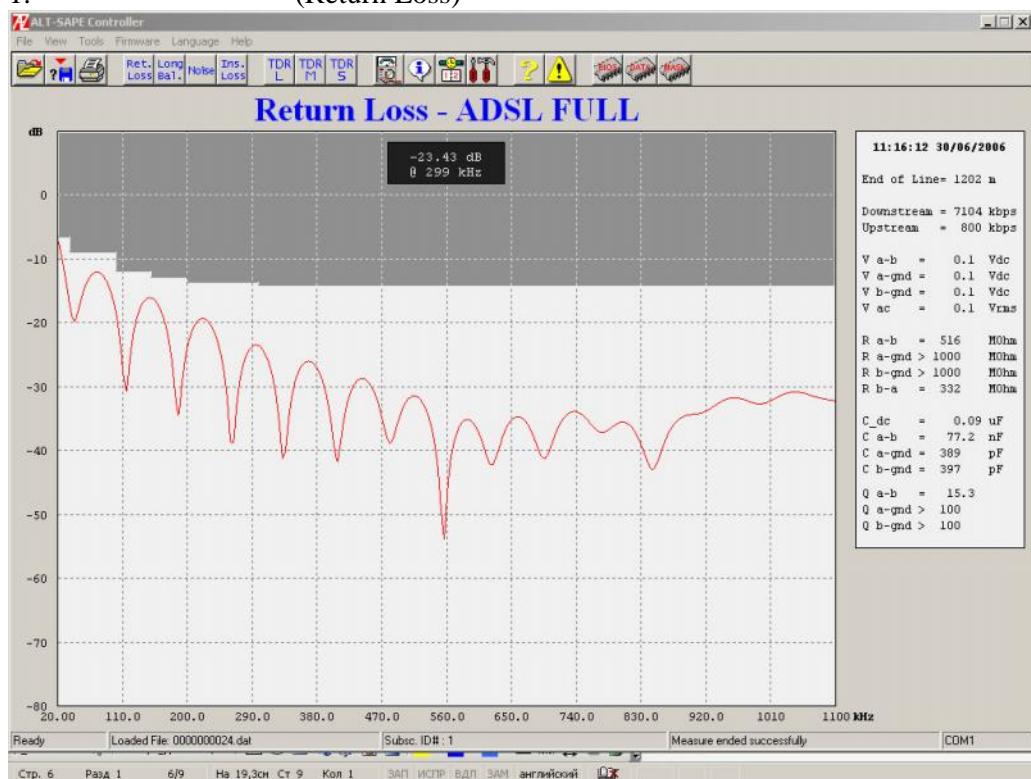
(.1)   ,

–   .
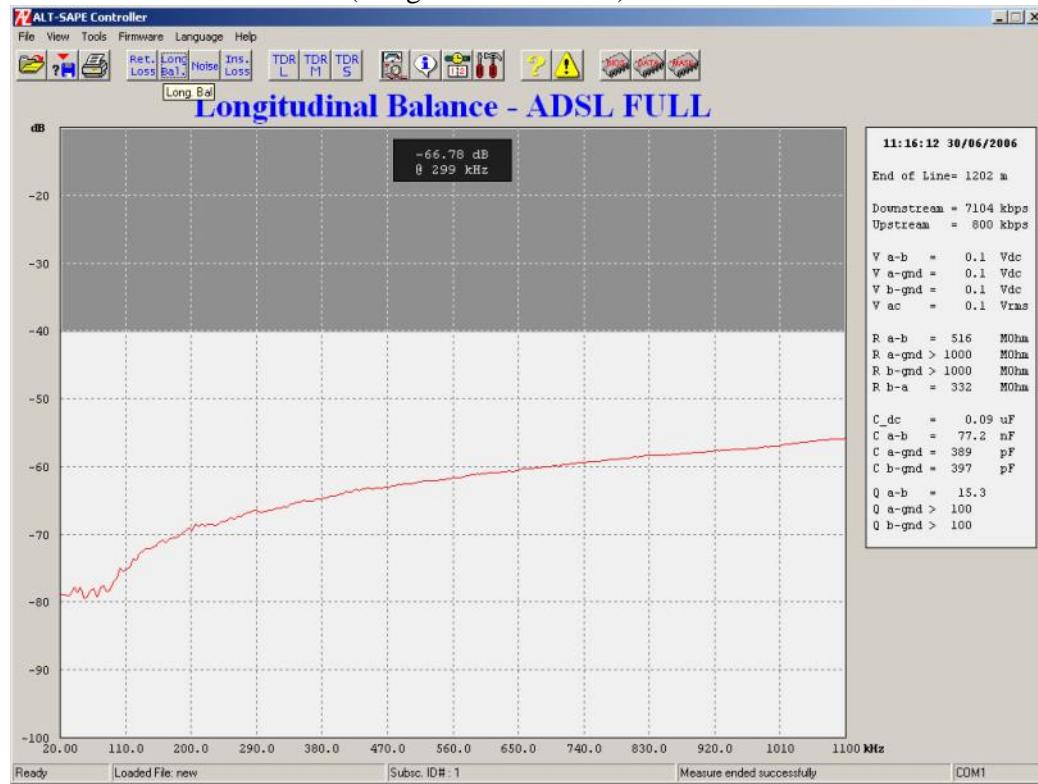
1.   (Return Loss)
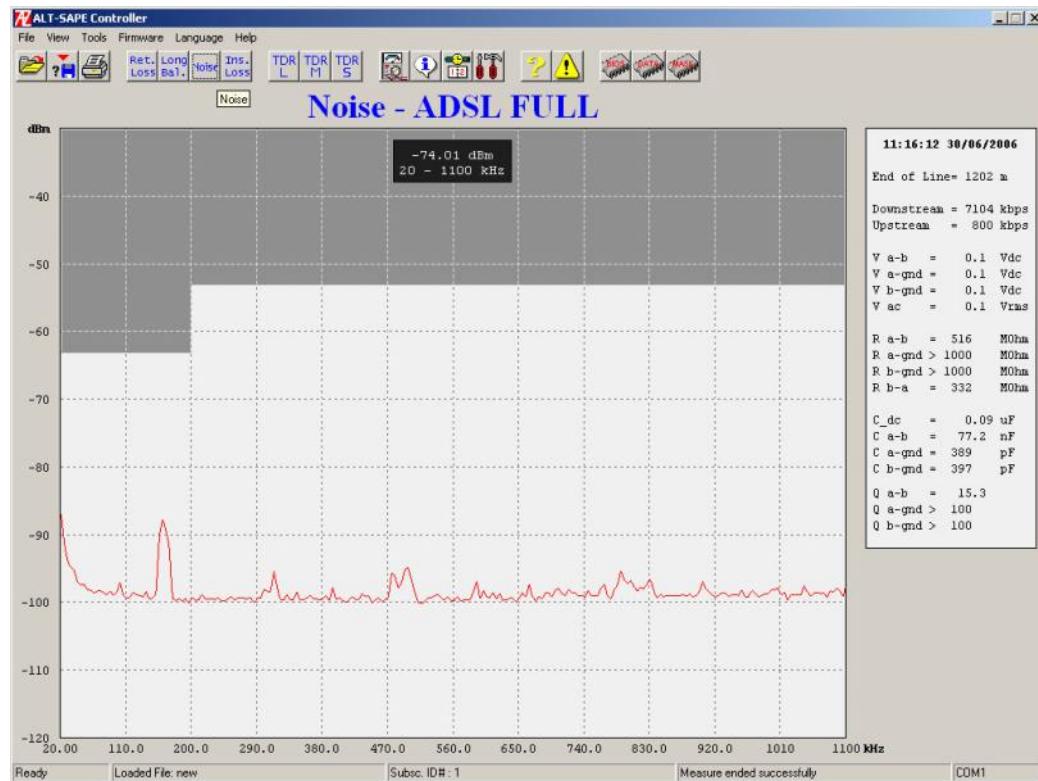
2.   (Longitudinal Balance)
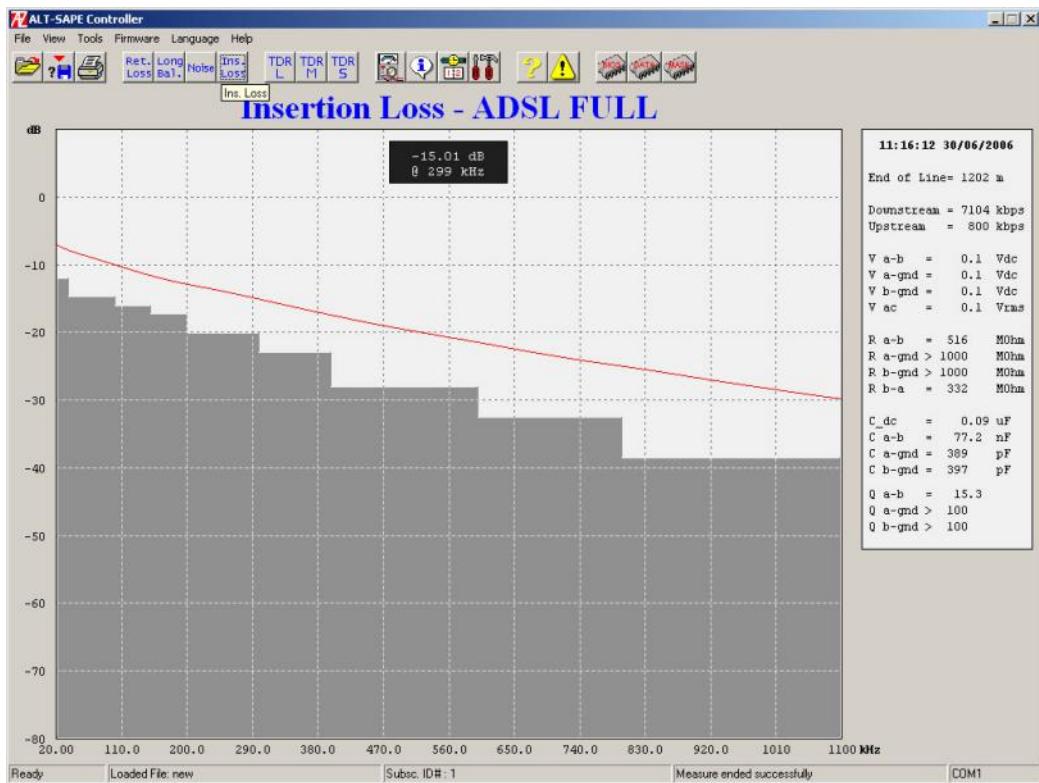
3.   (Noise)

4.   –   (Insertion Loss)
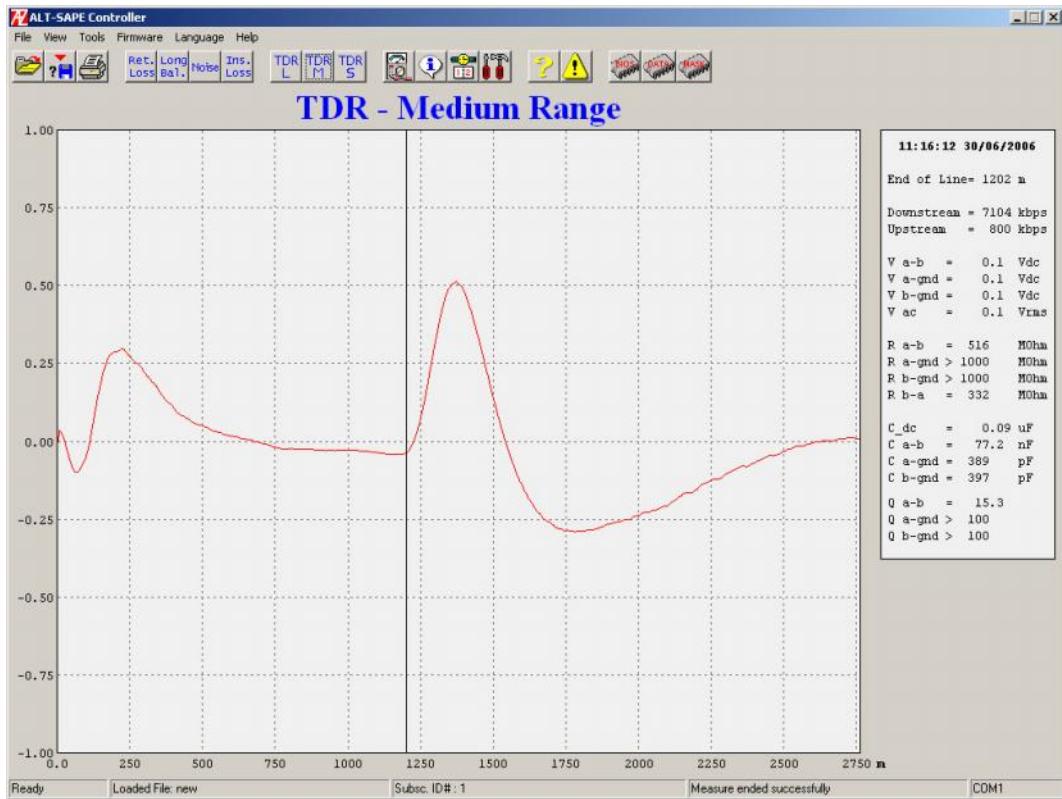
5.   –   : 6500   (TDR – Long Range)
                                                                                        (
              ,   .)
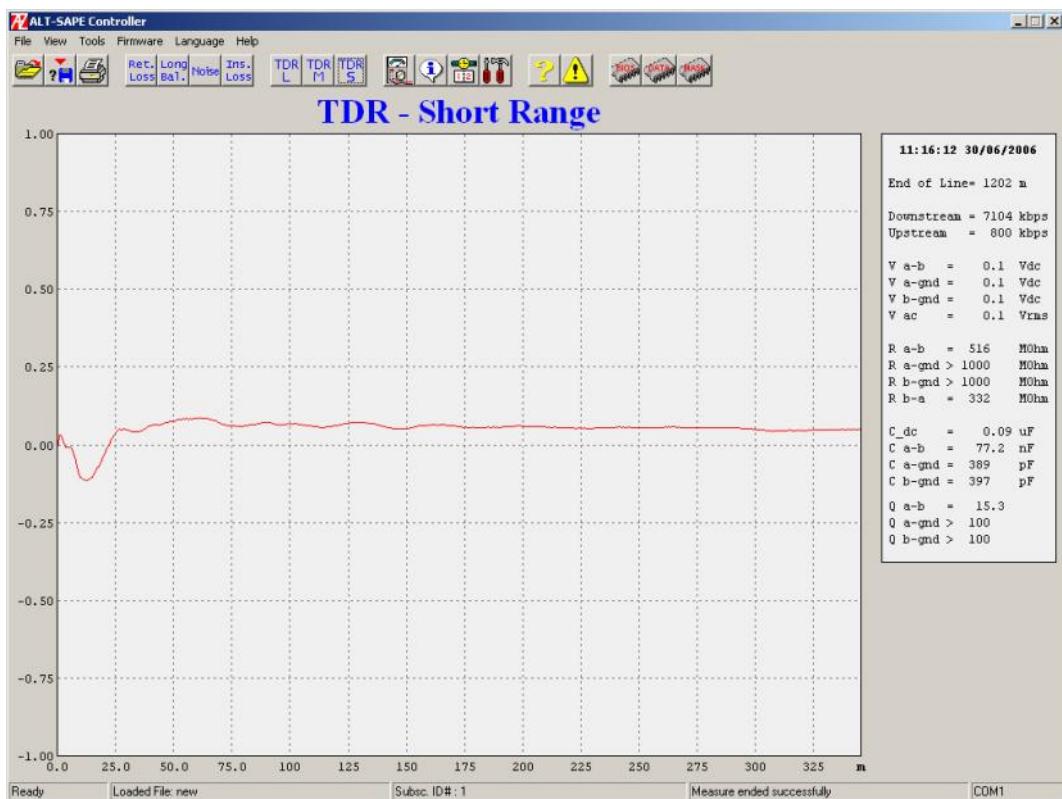
6.   –   : 2500   (TDR – Medium Range)

7.   –   : 325   (TDR – Short Range)

.

,
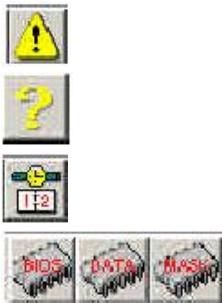
"ALTSAPE-Kit" c   .   ,

,   .

ALT2000   SAPE,   Hardware-Key
.

:

"Alert Messages"

"ALT-SAPE Controller"

Lingua:

ALT-2000

_____:

	▪ : 0 50° ▪ : −20 70°

	▪ (- -). IN/OUT
	  «RTX» OUT – «TX».
	▪
	    .
	▪ RJ-45/4
	▪
	▪ RS232
	▪ PCMCIA

	▪ .
	▪ 8 . 2 ▪ : 14 18 , 1.5
	▪ 150 210 50
	▪ 1.6 ( )

_____(_____):

	<1, 93, 100, 110, 120, 135, 150, 200, 300, 600, 1350 ,
	16 20 20 2200
	1
/	≤±2.5 ppm
	−58 +22 ± 0.1 100 100
	±0.15 1 2 , 0 100 100 .
	−74 +6 ±0.5 1 2,2 100 .

	93, 100, 110, 120, 135, 150, 200, 300, 600
	2
	16 20 , 20 2200
	1
	, , (40, 100, 200, 400, 1200, 3000, 4000, 8000), , IEEE 743: E, F, G –
	(dBm V) (dBr).
	, ,
	−120 +22 100
	0.1 40
« » /	-40 / -90
(TX .)	−136 / 100

	▪ : ±0.1 100
	▪ : ±0.15
	               1 2,2
	          100
	▪ : +0.5 −2.5

(   ):

(DC/RLC Multimeter)
- ,   ,   (Line RLC Meter)
- (Line resistance & Insulance Meter)
- /
- «   »

/   (**Central & Subscriber Simulator**)
- ,   (Battery feed/Line Hook Circuit)
- (   ) (Dial circuit and Decoder (DTMF tones and impulsive)
- (Ring Generator and Meter)
- (Pay pulse Generator and Decoder)

_____ :
- (**Microinterruptions**) (. ITU   .62)
- (**Impulsive Noise**) (. ITU   .71)
- (**TDR**)