

32

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10 REM*****  

20 REM*  

30 REM* SMFPZ DEMO PROGRAM USER #1/2 *  

40 REM* ----- *  

50 REM* ORIGINATOR: BAYRHUBER TBF *  

60 REM* MODIFIED : VENZIN MANETSCH *  

70 REM* DATE : 10. MAI. 1986/MK III  

80 REM*  

90 REM*****  

100 Y1$="SMFPZ"  

110 R=1:GOSUB 9000  

120 R=6:Y=2:GOSUB9000 :REM FM  

130 R=7:Y=3,5:GOSUB9000 :REM MAX, MOD.  

140 Y1=2:Y=0:R=20:GOSUB9000  

150 Y1=3:Y=0:R=20:GOSUB9000  

160 Y1=4:Y=0:R=20:GOSUB9000  

170 REM*****  

180 REM*  

190 REM* S E N D E R *  

200 REM* ===== *  

210 REM*  

220 REM*****  

230 :  

240 GOSUB 3320  

250 PRINT "L"  

260 PRINT:PRINT:PRINT  

270 PRINT"GERAETEDATEN"  

280 PRINT"-----" 31  

290 PRINT:PRINT:PRINT:PRINT  

300 INPUT"BETRIEBSSPANNUNG IN VOLT =";B  

310 Y3=2:Y1=(B-0,1):Y2=(B+0,1):R=35:GOSUB 9000  

320 PRINT  

330 R=35:GOSUB 9000  

340 IF Y<Y1 THEN 310  

350 IF Y>Y2 THEN 310  

360 PRINT"BETRIEBSSPANNUNG = TAB(25) Y "VOLT"  

370 PRINT  

380 INPUT"ANZAHL KANALELE ";K$  

390 IF ASC(K$)> 47 THEN 400  

400 IF ASC(K$)< 58 THEN 430  

410 POKE 198,0:POKE 197,130:POKE 196,560 AND 255  

420 GOTO 380  

430 K=ASC(K$)-48:IF K<1 THEN GOTO 380  

440 Y1=2:Y=1:R=20:GOSUB9000  

450 FOR L=1 TO K STEP 1  

460 PRINT"U"  

470 PRINT:PRINT:PRINT  

480 PRINT"SENDERTEST"  

490 PRINT"-----" 32  

500 PRINT:PRINT:PRINT:PRINT  

510 PRINT  

520 PRINT  

530 INPUT"EINSTELLEN KANAL ";K$(L)  

540 IF ASC(K$(L))> 47 THEN 550  

550 IF ASC(K$(L))< 58 THEN 580  

560 POKE 198,0:POKE 197,129 :POKE 196,480 AND 255  

570 GOTO 530  

580 PRINT: K(L)=ASC(K$(L))-48  

590 PRINT  

600 R=41:GOSUB9000:IF Y>0,1THEN GOTO 640  

610 R=48:GOSUB 9000  

620 Y$="SENDER HOCHTASTEN "  

630 R=87:GOSUB9000  

640 R=54:YE=2:GOSUB9000  

650 IF Y<,4THEN680

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640 K=0: T=2: GOSUB 7000
650 IF Y< .4 THEN 680
660 PRINT "MESSUNG TX FREQUENZ = "; Y; " MHZ"
670 X(6)=INT(200*Y+.5)/200
680 PRINT "EINGABE NOMINAL TX FREQUENZ: ";
690 PRINT X(6):
700 PRINT "CHR$(13)TAB(29)
710 INPUT X(6)
720 S(L)=X(6)
730 PRINT
740 PRINT "SIMPLEX ODER DUPLEX (S/D): ";
750 PRINT " S"; : PRINT "CHR$(13)TAB(30); : INPUT D$"
760 IF D$="D" THEN 790
770 IF D$="S" THEN 840
780 GOTO 740
790 PRINT
800 PRINT "DUPLEX ABSTAND (RX-TX) IN MHZ : ";
810 PRINT X(4); : PRINT "CHR$(13)TAB(30); : INPUT X(4)
820 X(1)=X(6)+X(4)
830 F(L)=X(1): GOTO 870
840 X(4)=0: X(1)=X(6)
850 F(L)=X(6)
860 R(L)=X(6)
870 R=41: GOSUB 9000
880 P(L)=Y
890 IF P(L)>.009 THEN 950
900 PRINT
910 PRINT
920 PRINT
930 Y$=" KEINE LEISTUNG "
940 R=87: GOSUB 9000
950 A(L)=INT(Y)
960 R=36: GOSUB 9000
970 PRINT: A(L)=Y
980 PRINT "SENDERSTROM ", Y; "AMP"
990 HOLD 1000
1000 IF L=K THEN GOTO 1020
1010 NEXT L
1020 PRINT
1030 INPUT "5-TON MODULATIONEN Y/N"; T$
1040 IF T$="Y" THEN GOTO 1070
1050 IF T$="N" THEN GOTO 1380
1060 GOTO 1030
1070 PRINT
1080 INPUT "ANZAHL 5-TON MODULATIONEN"; M
1090 GOSUB 3120
1100 Y1=2: Y=0: R=20: GOSUB 9000
1110 PRINT
1120 Y$="Z": R=19: GOSUB 9000
1130 FOR L=1 TO M
1140 Y=0: R=17: GOSUB 9000
1150 R=43: GOSUB 9000
1160 Y$="00000000": R=33: GOSUB 9000
1170 PRINT
1180 Y$="NUMMER EINSTELLEN "
1190 R=87: GOSUB 9000
1200 Y1=4: Y=1: R=20: GOSUB 9000
1210 HOLD 800: Y1=4: Y=0: R=20: GOSUB 9000
1220 R=34: GOSUB 9000
1230 IF Y$<>" " THEN GOTO 1270
1240 Y$="RUF AUSLOESEN"
1250 R=87: GOSUB 9000
1260 R=34: GOSUB 9000
1270 PRINT
1280 Y$=RIGHT$(Y$, 6)
1290 PRINT "DECODIERTE NUMMER "; Y$
1300 N$(L)=Y$
1310 NEXT L
1320 PRINT
1330 PRINT
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1320 PRINT
1330 PRINT
1340 INPUT"DECODIERTE NUMMERN WIDERHOLEN Y/N";A$
1350 IF A$=="Y" THEN GOTO 1090
1360 IF A$=="N" THEN GOTO 1380
1370 GOTO1340
1380 GOSUB 3120
1390 Y1=4;Y=0;R=20:GOSUB9000
1400 Y1=2;Y=1;R=20:GOSUB9 00
1410 FOR L=1 TO K STEP 1
1420 GOSUB 3170
1430 PRINT" I KANAL "K(L)" " IMHZ I";F(L)TAB(38)" I"
1440 GOSUB 3170
1450 PRINT" IHF LEISTUNG " I WI"
1460 PRINTTAB(30)P(L)TAB(38)" I"
1470 GOSUB3170
1480 Y(6)=S(L)
1490 PRINT" IFREQUENZ ABWEICHUNG " I HZ I";
1500 R=42:GOSUB9000:PRINTTAB(30)INT(Y)TAB(38)" I"
1510 GOSUB3170
1520 PRINT" ISENDERSTROM " IAMP I";
1530 PRINTTAB(30)A(L)TAB(38)" I"
1540 PRINT" I-----"
1550 IF L=K THEN GOTO 1570
1560 NEXT L
1570 GOSUB3170
1580 IFT$=="N" THEN GOTO 1660
1590 FOR L=1 TO M
1600 PRINT" IDECODIERTER RUF "L;
1610 PRINT TAB(30)N$(L)TAB(38)" I"
1620 GOSUB 3170
1630 NEXT L
1640 PRINT" I-----"
1650 GOSUB 3170
1660 PRINT" IMIKROFON EMPFINDLICH. " MV I";
1670 R=48;Y=100;YA=1:GOSUB9000:PRINTTAB(30)Y TAB(38)" I"
1680 Y=Y*10:IFY>4995THENY=4995
1690 R=17:GOSUB9000
1700 GOSUB3170
1710 PRINT" IHUB MAXIMAL " IKHZ I";
1720 R=43: GOSUB9000:PRINTTAB(30)YTAB(38)" I"
1730 GOSUB3170
1740 PRINT" IKLIRR BEI 1 KHZ " % I";
1750 R=48;Y=60;YA=1:GOSUB9000
1760 R=30: GOSUB9000:PRINTTAB(30)YTAB(38)" I"
1770 GOSUB3170
1780 PRINT" ISIGNAL/RAUSCH ABSTAND " DB I";
1790 R=53:GOSUB9000
1800 PRINTTAB(30)YTAB(38)" I"
1810 GOSUB 3170
1820 Y1=3;Y=1;R=20:GOSUB9000
1830 PRINT" I"TAB(38)" I"
1840 PRINT" IMODULATIONS FREQUENZ-GANG "TAB(38)" I"
1850 GOSUB 3170
1860 PRINT" I"TAB(38)" I"
1870 R=18;Y=0:GOSUB9000 :REM CCITT OFF
1880 Y$=".1,.5,1,1.5,2.7,3,6"
1890 R=49:GOSUB9000
1900 FORN=1TOY9
1910 PRINT" I @ "X(20+N)TAB(9)"KHZ " I DB I"TAB(30)Y(N)TAB(38)" I"
1920 GOSUB 3170
1930 NEXT
1940 PRINT" I-----"
1950 Y1=2;Y=0;R=20:GOSUB9000
1960 REM Y1$="SMFP2"
1970 REM R=1:GOSUB9000
1980 Y$="EMPFANGER TEST = R : AUSDRUCK = H": R=87:GOSUB9000
1990 IF Y1$=="H"THEN1990
2000 IF Y1$=="R"THEN2020
2010 GOTO1980

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2000 IF Y1$="R"THEN2020
2010 GOTO1980
2020 REM R= 6;Y=2 :GOSUB 9000
2030 REM R= 7;Y=4,5:GOSUB 9000
2040 R= 9;Y=10 :GOSUB 9000
2050 R=12;Y= 2 :GOSUB 9000
2060 R=18;Y=0 :GOSUB 9000
2070 PRINT"U"
2080 REM K=Z;K(1)=0;K(1)=17Z,0Z0;K(Z)=1ZZ,523
2090 REM*****M*****M*****M*****M*****M*****M*****M
2100 REM*
2110 REM* E M P F A E N G E R *
2120 REM* =====*
2130 REM*
2140 REM*****M*****M*****M*****M*****M*****M*****M
2150 M=K
2160 FORL=1TO M
2170 PRINT"U"
2180 PRINT:PRINT:PRINT
2190 PRINT"EMPFAENGERTEST"
2200 PRINT"-----"
2210 PRINT:PRINT:PRINT:PRINT
2220 PRINT"KANAL "K(L); " EINSTELLEN"
2230 GETK$
2240 IF K$ ="" THEN 2230
2250 PRINT:X(1)=R(L)
2251 Y1=4;Y=1;R=20:GOSUB9000
2252 HOLD 100
2253 Y1=4;Y=0;R=20:GOSUB9000
2260 R=62:GOSUB9000
2270 Y$="EMPFAENGER EIN / SQUELCH AUS"
2280 R=87:GOSUB9000
2290 R=41:GOSUB9000:IFY>0THEN2360
2300 K=0
2310 IFK=3THEN2710
2320 R=28:GOSUB9000
2330 Y$="LAUTSTAERKE EINSTELEN AUF 1000-3000 MV"
2340 Y1=1000;Y2=3000;R=86:GOSUB9000
2350 IFY3=1THENK=K+1:GOTO2410
2360 GOTO2400
2370 PRINT"U"
2380 Y$="CHECK RECEIVER AUDIO OUTPUT":R=87:GOSUB9000
2390 K=0;Y3=2:GOTO2430
2400 R=10;Y=0:GOSUB9000
2410 R=28:GOSUB9000:Y1=Y
2420 R=10;Y=1:GOSUB9000
2430 IFY1<1000THENY$="RAUSCHSPERRE AUS":GOTO2370
2440 PRINT"KANAL "K(L)TAB(25) R(L)TAB(35)"MHZ"
2450 PRINT
7 2460 INPUT"CCITT FILTER EIN Y/N ";A$
2470 IF A$ = "N" THEN 2490
2480 R=18;Y=1:GOSUB9000
2490 PRINT
7 2500 PRINT"EMPF.BEI 20 DB SINAD"TAB(25);
2510 Y=20;R=67:GOSUB 9000
2520 PRINT Y TAB(35)"UV":E(L)=Y
2530 PRINT
7 2540 PRINT"S/R ABSTAND BEI 1UV RF"TAB(25);
2550 Y=1;R=9:GOSUB9000
2560 Y=100;R=64:GOSUB 9000
2570 PRINT Y TAB(35)"DB" :S(L)=Y
2580 PRINT
7 2590 PRINT"KLIRR BEI 1 KHZ"TAB(25);
2600 Y=3.5;R=12:GOSUB9000
2610 R=30:GOSUB9000
2620 PRINT Y TAB(35)"%" :D(L)=Y
2630 HOLD5000
2640 R=18;Y=0:GOSUB9000
2650 NEXT L
2660 END
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2670 PRINT"-----"
2700 PRINT" I-----"
2710 FOR L=1 TO M
2720 PRINT" I KANAL "K(L); IMHZ I; R(L)TAB(38)" I"
2730 GOSUB3170
2740 PRINT" IEMPFINDL. @ 20-DB SINAD I UV I"TAB(38);
2750 PRINTE(L)TAB(38)" I"
2760 GOSUB 3170
2770 PRINT" IS/R ABSTAND @ 1-MV RF I DB I"TAB(38);
2780 PRINT S(L)TAB(38)" I"
2790 GOSUB 3170
2800 PRINT" IKLIRR BEI @ 1 KHZ I % I"TAB(38);
2810 PRINT D(L)TAB(38)" I"
2820 GOSUB 3170
2830 PRINT" I-----"
2840 NEXTL
2850 PRINT" IDEMOD. FREQUENZ-GANG "TAB(38)" /"
2860 PRINT" I"TAB(38)" I"
2870 Y$=".1,.5,1,1.5,2.7,3,6"
2880 R=76:GOSUB9000
2890 FORN=1TOY9
2900 PRINT" I - "X(20+N)TAB(9)" KHZ I DB I"TAB(38)Y(N)TAB(38)" I"
2910 NEXT
2920 PRINT" I"TAB(24)" I"TAB(28)" I"TAB(38)" I"
2921 Y1=6:Y=0:R=20:GOSUB9000
2926 R=10:Y=0:GOSUB9000
2927 R=28:GOSUB 90000:Y1=Y
2928 R=10:Y=1:GOSUB9000
2929 IF Y1<10 THEN GOTO 2940
2930 Y$="RAUSCHSPERRE EIN !":R=87:GOSUB9000
2940 PRINT" ISQUELCH HYSTERESE I DB I"TAB(38);
2950 R=72:GOSUB9000
2960 PRINTYTAB(38)" I"
2970 PRINT" ISQUELCH OBERER PEGEL I UV I"TAB(38)Y2TAB(38)" I"
2980 PRINT" ISQUELCH UNTERER PEGEL I UV I"TAB(38)Y1TAB(38)" I"
2981 Y1=6:Y=1:R=20:GOSUB9000
2982 R=10:Y=0:GOSUB9000
2983 R=28:GOSUB 9000:Y1=Y
2984 R=10:Y=1:GOSUB 9000
2985 IF Y1>10 THEN GOTO 3000
2990 Y$="RAUSCHSPERRE AUS !":R=87:GOSUB9000
3000 PRINT" -----"
3010 Y$="HARDCOPY = H : STOP = S : RESTART = R":R=87:GOSUB9000
3020 IFY1$="H"THENR=93:GOSUB9000
3030 IFY1$="S"THENEND
3040 IFY1$="R"THEN170
3050 GOTO3130
3060 :
3070 REM*****REM*****REM*****REM*****REM*****REM*****REM*****REM*****
3080 REM*
3090 REM* T I T L E *
3100 REM*
3110 REM*****REM*****REM*****REM*****REM*****REM*****REM*****REM*****
3120 PRINT"-----"
3130 PRINT" I MANETSCH AG CHUR PRUEFPROTOKOLL I"
3140 PRINT" I-----"
3150 GOSUB 3530
3160 RETURN
3170 S=PEEK(33726)
3180 IF K5$ <> "Y" THEN RETURN
3190 IF S=32 THEN RETURN
3200 Y1=2:Y=0:R=20:GOSUB 9000
3210 R=93:GOSUB 9000
3220 OPEN1,230
3230 FOR I = 1 TO 4
3240 PRINT#1,CHR$(27);CHR$(10);
3250 HOLD 200
3260 NEXT I
3270 PRINT#1,CHR$(27);CHR$(28);
3280 CLOSE 1
3290 PRINT#1,"
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+ 3270 PRINT#1,CHR$(Z77);CHR$(Z82);
3280 CLOSE 1
3290 PRINT"U"
3300 Y1=2;Y=1;R=20;GOSUB 9000
3310 RETURN
3320 REM*****TESTKOPF*****
3330 PRINT:PRINT:PRINT
3340 PRINT"PRUEFKOPF"
3350 PRINT"-----"
3360 PRINT:PRINT:PRINT:PRINT
3370 INPUT"KUNDE           ":";K1$
3380 PRINT
3390 INPUT"GERAETE TYP     ":";K2$
3400 PRINT
3410 INPUT"GERAETE NUMMER ":";K3$
3420 PRINT
3430 INPUT"DATUM          ":";K4$
3440 PRINT
3450 INPUT"AUTO-PRINT Y/N ":";K5$
3460 IF K5$ = "Y" THEN 3520
3470 IF K5$ = "N" THEN 3520
3480 POKE 198,0
3490 POKE 197,130
3500 POKE 196,720 AND 255
3510 GOTO 3450
3520 RETURN
3530 PRINT"IKUNDE        ";K1$;TAB(38)"|"
3540 PRINT"IGERAETE TYP   ";K2$;TAB(38)"|"
3550 PRINT"IGERAETE NUMMER ";K3$;TAB(38)"|"
3560 PRINT"IDATUM         ";K4$;TAB(38)"|"
3570 PRINT"*****|*****|*****|*****|*****|*****|*****|*****|*****|"
3580 RETURN
9996 END:REM SMFP-GRUNDSOFTWARE SMFP2K1
9997 REM SMFP BASIC SOFTWARE      SMFP2K1
9998 REM IN:358.2015.02          010283
9999 REM           1   2   3   4   5   6   7   8   9
9000 REM
9005 ON R-00 GOTO10000,10050,10100,10150,10200,10250,10300,10350,10400,1
9010 ON R-10 GOTO10500,10550,10600,10650,10700,10750,10800,10850,10900,1
9020 ON R-20 GOTO11000,11050,11100,11150,11200,11250,11300,11350,11400,1
9030 ON R-30 GOTO11500,11550,11600,11650,11700,11750,11800,11850,11900,1
9040 ON R-40 GOTO12000,12050,12100,12150,12200,12250,12300,12350,12400,1
9050 ON R-50 GOTO12500,12550,12600,12650,12700,12750,12800,12850,12900,1
9060 ON R-60 GOTO13000,13050,13100,13150,13200,13250,13300,13350,13400,1
9070 ON R-70 GOTO13500,13550,13600,13650,13700,13750,13800,13850,13900,1
9080 ON R-80 GOTO14000,14050,14100,14150,14200,14250,14300,14350,14400,1
9090 ON R-90 GOTO14500,14550,14600,14650,14700,14750,14800,14850,14900,1
9991 GOTO14950
10000 Y$==Y1$:Y1$="START":REM*****|***** 1
10001 DIM Y(20),X(40),Y$(6):IECTIME250:IECTERM13
10002 PRINT"U":IECDCL
10003 IECDEV SMFP=30:IECDEV NCPU=12:IECOFFSRQ
10010 IF PEEK(898)=186 AND PEEK(899)=142 THEN10016
10012 Y$(0)="186,142,140,003,096,174,140,003,154,096,"
10014 FORY1=0TO9:POKE898+Y1,VAL(MID$(Y$(0),4*Y1+1,4*Y1+4)):NEXT
10016 SYS(898)
10038 IFYS$=="0RYS$=="SMFP"THENYS$="P":RETURN
10040 IFYS$=="SMFP2"THENYS$="A":RETURN
10045 GOTO14950
10050 Y1$=="RX-FREQU":REM*****|***** 2
10051 X(1)=Y:X(6)=X(1)-X(4):RETURN
10100 Y1$=="MULTI-CHANNEL":REM*****|***** 3
10101 X(1)=Y:X(2)=Y1:X(3)=Y2:RETURN
10150 Y1$=="DUPLEX SPACING":REM*****|***** 4
10151 X(4)=Y:X(6)=X(1)-X(4):RETURN
10200 Y1$=="IF+/-":REM*****|*****|*****|***** 5
10201 X(5)=Y:RETURN
10250 Y1$=="TYPE OF MOD.":REM*****|*****|*****|***** 6
10251 X(7)=Y:ONX(7)GOT010253,10254,10255
10252 GOT014950

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10253 Y5\$="AA,BI.":GOSUB16010:RETURN
10254 Y5\$="AB,BJ.":GOSUB16010:RETURN
10255 Y5\$="AC,BK.":GOSUB16010:RETURN
10300 Y1\$="MAX, MOD.":REM***
10301 IFY>100THEN GOTO14950
10302 X(8)=Y:RETURN
10350 Y1\$="GEN, RF-SETTING":REM***
10351 IFY<,40RY>1000THEN GOTO14950
10352 Y5\$="AC"+MID\$(STR\$(Y),2,8)+"":GOSUB16010:RETURN
10400 Y1\$="GEN, RF-LEVEL":REM***
10401 IFY<,8320RY>1000000THEN GOTO14950
10402 IFY>1000THEN NY=Y/1000:Y3\$="AJ":GOTO10404
10403 Y3\$="AI"
10404 Y5\$=Y3\$+MID\$(STR\$(Y),2,8)+"":GOSUB16010:RETURN
10450 Y1\$="GEN, RF ON/OFF":REM***
10451 IFY=1THEN Y5\$="E@.":GOSUB16010:RETURN
10452 IFY=0THEN Y5\$="D@.":GOSUB16010:RETURN
10453 GOTO14950
10500 Y1\$="RF-LEVEL-VARIATION":REM***
10501 IFY=1THEN Y5\$="EK.":GOSUB16010:RETURN
10502 IFY=-1THEN Y5\$="DK.":GOSUB16010:RETURN
10503 GOTO14950
10550 Y1\$="GEN, MOD, INTERN":REM***
10551 IFX(7)<>3THEN 10554
10552 IFY>12THEN 14950
10553 GOTO10555
10554 IFY>100THEN 14950
10555 Y5\$="AM"+MID\$(STR\$(Y),2,8)+"":GOSUB16010:RETURN
10600 Y1\$="GEN, MOD, EXTERN":REM***
10601 Y5\$="EM.":GOSUB16010
10602 IFX(7)<>2THEN 10605
10603 IFY>12THEN 14950
10604 GOTO10606
10605 IFY>100THEN 14950
10606 Y5\$="AZ"+MID\$(STR\$(Y),2,8)+"":GOSUB16010:RETURN
10650 Y1\$="MOD, INT, ON/OFF":REM***
10651 IFY=1THEN Y5\$="AM.":GOSUB16010:RETURN
10652 IFY=0THEN Y5\$="EM.":GOSUB16010:RETURN
10653 GOTO14950
10700 Y1\$="-----":REM***
10701 RETURN
10750 Y1\$="GEN, AF-SETTING":REM***
10751 IFY=0THEN 10753
10752 IFY<0,8090RY>25THEN GOTO14950
10753 Y5\$="AO"+MID\$(STR\$(Y),2,8)+"":GOSUB16010:RETURN
10800 Y1\$="GEN, AF-LEVEL":REM***
10801 IFY<80RY>4995THEN GOTO14950
10802 Y5\$="AQ"+MID\$(STR\$(Y),2,8)+"":GOSUB16010:RETURN
10850 Y1\$="CCITT ON/OFF":REM***
10851 IFY=1THEN Y5\$="EC.":GOSUB16010:RETURN
10852 IFY=0THEN Y5\$="DC.":GOSUB16010:RETURN
10853 GOTO14950
10900 Y1\$="TONE MODE DEFIN.":REM***
10902 IFY\$="Z"THEN Y5\$="B08":GOSUB16010:RETURN
10904 IFY\$="C"THEN Y5\$="B09":GOSUB16010:RETURN
10906 GOTO14950
10908 RETURN
10950 Y1\$="CONTR, LINES":REM***
10951 IFY1>90RY1<1THEN GOTO14950
10952 Y5\$="EF"+RIGHT\$(STR\$(Y1),1)+RIGHT\$(STR\$(Y),1)+"":GOSUB16010:RETUR
11000 Y1\$="BCD-LINES":REM***
11001 IFLEN(Y\$)<10RLEN(Y\$)>4THEN GOTO14950
11002 IFLEFT\$(Y\$,1)==" "THEN Y\$=RIGHT\$(Y\$,LEN(Y\$)-1):GOTO11002
11003 Y5\$="EA"+RIGHT\$("00"+Y\$,3)+"":GOSUB16010:RETURN
11050 Y1\$="CHANNEL-SELECT":REM***
11051 X(1)=X(1)+X(3)*(Y-X(2))/1000:X(2)=Y:X(6)=X(1)-X(4)
11052 Y\$=STR\$(Y):GOTO11000
11100 Y1\$="NGPU CURRENT-LIMIT":REM***
11101 IFY<80RY>9,99THEN GOTO14950

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11050 Y1$="CHANNEL-SELECT"; REM***  

11051 X(1)=X(1)+X(3)*(Y-X(2))/1000; X(2)=Y; X(6)=X(1)-X(4)  

11052 Y$=STR$(Y); GOT011000  

11100 Y1$="NCPU CURRENT-LIMIT"; REM***23  

11101 IFY<0ORY>9.99THEN GOT014950  

11102 Y=INT(Y*100); X(11)=10; IFY<100THEN 11104  

11103 Y5$="00R"+RIGHT$(STR$(Y),LEN(STR$(Y))-1)+"A"; GOT011107  

11104 Y=Y*10; X(11)=1; IFY<100THEN 11106  

11105 Y5$="01R"+RIGHT$(STR$(Y),LEN(STR$(Y))-1)+"A"; GOT011107  

11106 Y=Y*10; X(11)=0,1; Y5$="02R"+STR$(Y)+"A"  

11107 IECOUTNGPU,Y5$:RETURN  

11150 Y1$="NCPU VOLTAGE-SET. "; REM***24  

11151 IFY<0,1ORY>70THEN GOT014950  

11152 Y5$="00"+RIGHT$(STR$(INT(Y*10+.5)),LEN(STR$(INT(Y*10+.5)))-1)  

11153 Y5$=RIGHT$(Y5$,3)+"V"; IECOUT NGPU,Y5$:RETURN  

11154 RETURN  

11200 Y1$="-----"; REM***25  

11201 RETURN  

11250 Y1$="-----"; REM***26  

11251 RETURN  

11300 Y1$="AF-FREQU. MEAS. "; REM***27  

11301 IFYS$="P"THEN Y3$="AP"; GOT011312  

11304 IFYE<>0 AND YE<>1 THEN YE=0  

11306 ONYE+1GOT011308,11320  

11308 Y3$="AP1"  

11312 Y5$=Y3$+"."; GOSUB16010; GOSUB16000  

11313 Y=(INT(1000*VAL(MID$(Y5$,3,9))+.5))/1000; IFY3>0THEN GOSUB14250  

11314 IFY3>0THEN 11312  

11315 IFLEFT$(Y5$,2)=LEFT$(Y3$,2)THEN RETURN  

11316 GOT014950  

11320 Y3$="AP.1"  

11322 Y5$=Y3$+"."; GOSUB16010; IFY3>0THEN GOSUB14250  

11323 GOSUB16000; Y=(INT(100*VAL(MID$(Y5$,3,9))))/1000; IFY3>0THEN 11322  

11324 IFLEFT$(Y5$,2)=LEFT$(Y3$,2)THEN NNRETURN  

11325 GOT014950  

11350 Y1$="AF-LEVEL-MEAS. "; REM***28  

11351 Y5$="AX. "; GOSUB16010; IFY3>0THEN GOSUB14250  

11352 GOSUB16000; Y=(INT(10000*VAL(MID$(Y5$,3,9))))/10; IFY3>0THEN 11351  

11353 IFLEFT$(Y5$,2)="AX"THEN RETURN  

11354 GOT014950  

11400 Y1$="DIST. AT 0.3 KHZ"; REM***29  

11402 YE=1; GOSUB11450  

11404 RETURN  

11450 Y1$="AF DISTORTION"; REM***30  

11451 IFYE=0THEN YE=3  

11452 ONYE GOT011454,11456,11458  

11454 YE=0; Y3$="ED"; GOT011312  

11456 IFYS$="A"THEN YE=0; Y3$="EG"; GOT011312  

11457 GOT014950  

11458 YE=0; Y3$="EE"; GOT011312  

11460 GOT014950  

11500 Y1$="RF-PROBE"; REM***31  

11502 ONYE GOT011504,11520  

11504 YE=0; Y5$="FL1"; GOSUB16010; IFY3>0THEN GOSUB14250  

11506 GOSUB16000; Y=1000*VAL(MID$(Y5$,3,9))  

11508 IFY3>0THEN 11504  

11510 IFLEFT$(Y5$,2)="FL"THEN RETURN  

11512 GOT014950  

11520 YE=0; Y5$="FL0"; GOSUB16010; IFY3>0THEN GOSUB14250  

11522 GOSUB16000; Y=VAL(MID$(Y5$,3,9))  

11524 IFY3>0THEN 11520  

11526 IFLEFT$(Y5$,2)="FL"THEN RETURN  

11528 GOT014950  

11550 Y1$="AF-FREQU. RESPONSE"; REM***32  

11551 GOSUB11554; Y=1; GOSUB10750; GOSUB11350; Y(0)=Y  

11552 FORYZ=1TOY9; Y=X(20+YZ); GOSUB10750; GOSUB11350  

11553 Y(YZ)=(INT(200*LOG(Y/Y(0))/LOG(10)))/10; NEXTYZ; Y=1; GOT010750  

11554 Y9=1; GOT011559  

11555 FORY=1TOLEN(Y$)  

11556 IF MID$(Y$,Y,1)=""THEN 11558

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11553 TONE-IT-OUT-NEXT
11556 IF MID$(Y$, Y, 1) = "", THEN 11558
11557 NEXT: RETURN
11558 Y$=RIGHT$(Y$, LEN(Y$)-Y): Y9=Y9+1
11559 X(20+Y9)=VAL(Y$): GOT0 11555
11600 Y1$="TONE SEQ. GEN.": REM*****33
11601 IFLEN(Y$)>8 THEN 14950
11602 Y2$=Y$
11603 IF YE=1 THEN 11620
11604 Y5$="B07": GOSUB 16010
11605 Y5$="A0"+Y2$: GOSUB 16010
11606 Y5$="B010": GOSUB 16010
11608 Y5$="B06": GOSUB 16010
11610 RETURN
11620 YE=0: GOSUB 11950
11622 Y=0: GOSUB 10750
11626 Y=X(6): GOSUB 10350
11628 Y5$="B0, ZZ0": GOSUB 16010
11630 Y=X(1): GOSUB 10350
11632 Y5$="B0105": GOSUB 16010
11634 Y$=Y2$: GOSUB 11604
11636 GOSUB 12000: IF Y>1 THEN 11636
11638 GOSUB 11650: Y2$=Y$
11640 Y5$="B0106": GOSUB 16010
11641 GOSUB 13050
11642 Y=1: GOSUB 10750: Y=0: GOSUB 10650
11643 Y=1: GOSUB 10650: GOSUB 10450: GOSUB 11350
11644 Y$=Y2$: RETURN
11650 Y1$="TONE-SEQ. DEC.": REM*****34
11651 Y5$="B011": GOSUB 16010
11652 GOSUB 16000
11654 IF LEFT$(Y5$, 2)<>"TD" THEN 14950
11656 Y$(5)=""
11658 FOR Y1=3 TO 10
11660 Y$(4)=MID$(Y5$, Y1, 1)
11662 IF ASC(Y$(4))>57 THEN Y$(4)=CHR$(ASC(Y$(4))+7)
11663 IF Y$(4)="F" THEN Y$(4)=""
11664 Y$(5)=Y$(5)+Y$(4)
11666 NEXT Y1
11668 Y$=Y$(5)
11690 RETURN
11700 Y1$="DC-VOLT. MEAS.": REM*****35
11701 Y3$="EY": GOT0 11312
11750 Y1$="DC-CURRENT-MEAS.": REM*****36
11751 Y3$="DYYY": GOT0 11312
11800 Y1$="NGPU CURRENT-MEAS.": REM***37
11801 GOSUB 11700
11802 Y=X(11)*Y*10: RETURN
11850 Y1$="AF-LEVEL MEAN-VAL.": REM***38
11851 Y1=0
211852 FOR Y2=1 TO Y: Y5$="AX.": GOSUB 16010: GOSUB 16000: Y1=Y1+VAL(MID$(Y5$, 3, 9))
11853 Y=(INT(100000*Y1/Y))/100: RETURN
11900 Y1$="UNIV. ADJUSTMENT": REM*****39
11903 YF=0: Y1=Y1/100: Y9=0: Y8=Y6/2
11906 Y=Y6: R=Y4: GOSUB 9000: R=Y2: GOSUB 9000: Y7=Y
11907 IF ABS(Y/Y8-1)<Y1 THEN Y1=Y6: RETURN
11908 IF Y7=Y9 OR Y6=Y8 THEN YF=YF+1: GOT0 11911
11909 Y5=(ABS(Y5))*SGN((Y7-Y9)/(Y6-Y8))
11911 IF YF=5 THEN Y1=Y6: RETURN
11912 IF Y7>Y8 AND Y9>Y8 THEN 11921
11915 IF Y7<Y8 AND Y9<Y8 THEN 11921
11918 Y5=Y5/2
11921 Y8=Y6: Y9=Y7: Y6=INT(1E4*(Y8+Y5*SGN(Y8-Y9))+.5)/1E4: GOT0 11906
11950 Y1$="TRANSMITTER-TEST": REM*****40
11951 Y5$="AT.": GOSUB 16010: RETURN
12000 Y1$="RF POWER": REM*****41
12001 Y3$="AW": GOT0 11312
12050 Y1$="RF FREQU. ERROR": REM*****42
12051 Y5$="AT.": GOSUB 16010: GOSUB 16000
N12052 IF LEFT$(Y5$, 2)="AF" THEN Y=INT(.1*(1E7*(VAL(MID$(Y5$, 3, 15))-X(6))+5)
12053 GOT0 11250

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12853 GOTO11312
12100 Y1\$="POS. MOD. ";REM***
12101 Y3\$="BF";GOTO11312
12150 Y1\$="NEG. MOD. ";REM***
12151 Y3\$="BH";GOTO11312
12200 Y1\$="-----";REM***
12201 RETURN
12250 Y1\$="-----";REM***
12251 RETURN
12300 Y1\$="RESIDUAL-MOD. ";REM***
12301 Y=0;GOSUB10800;GOSUB12100;RETURN
12350 Y1\$="MOD. SENSITIVITY";REM***
12353 Y8=100;Y6=X(8)*Y/100;IFYA=0THENY=1;GOTO12355
12354 Y=YA
12355 GOSUB10750
12356 Y=Y8;GOSUB10800;GOSUB12100;IFABS(Y-Y6)/Y6<.05THEN12362
12359 Y8=Y8*Y6/(Y+.01);GOT012356
12362 Y=INT(Y8*10)/10;RETURN
12400 Y1\$="TX-MOD. FREQU. RESP. ";REM***
12401 GOSUB11554;Y=20;YA=1;GOSUB12350;GOSUB12100;Y(0)=Y
12402 FORYZ=1TOY9;Y=X(20+YZ);GOSUB10750;GOSUB12100
12403 Y(YZ)=(INT(200*LOG(Y/Y(0))/LOG(10)))/10;NEXTYZ;Y=1;GOT010750
12450 Y1\$="-----";REM***
12451 RETURN
12500 Y1\$="MOD. DISTORTION";REM***
12502 IFYE=0THENYE=1;GOT012510
12505 IFYE=2 AND YG\$<>"A"THEN14950
12510 ONYE GOT012515,12525,12535
12515 YE=0;YA=.3;GOSUB12350
12520 GOT011454
12525 YE=0;YA=.5;GOSUB12350
12530 GOT011456
12535 YE=0;YA=1;GOSUB12350
12540 GOT011458
12550 Y1\$="MOD. DIST. 1 KHZ ";REM***
12552 YE=.3;GOSUB12500
12554 YE=0;RETURN
12600 Y1\$="S/N TRANSM. ";REM***
12601 Y5\$="BB. ";GOSUB16010;GOSUB16000
12602 IF LEFT\$(Y5\$,2)="XB" THENY=(INT(10*VAL(MID\$(Y5\$,3,15)))/10;RETURN
12603 GOT014950
12650 Y1\$="RF FREQU. METER";REM***
12651 ONYE GOT012652,12653
12652 YE=0;Y5\$="AF. ";GOSUB16010;GOSUB16000;GOT012654
12653 YE=0;Y5\$="AT. ";GOSUB16010;GOSUB16000
12654 IF LEFT\$(Y5\$,2)="AF" THENY=VAL(MID\$(Y5\$,3,15));RETURN
12655 GOT014950
12700 Y1\$="MOD. FREQU. ";REM***
12701 IFYS\$="P" THENY3\$="BF. ";GOSUB16010;Y3\$="AU";GOT011312
12702 IFYE<>0 AND YE<>1 THEN YE=0
12703 ONYE+1GOT012708,12720
12708 Y3\$="AU1";GOT011312
12720 Y3\$="AU. 1";GOT011322
12750 Y1\$="BEAT FREQ. ";REM***
12752 Y1=YE;GOSUB12650;YB=SGN(Y-Y0)
12754 Y=Y0;GOSUB10350
12756 ONYE GOT012756,12760
12758 YE=0;Y4\$="AF. ";GOT012762
12760 YE=0;Y4\$="AT. "
12762 Y5\$=Y4\$+"AV. ";GOSUB16010
12763 Y5\$=Y4\$+"AV. ";GO TO 16010
12764 GOSUB16000;Y=YB*KINT(VAL(MID\$(Y5\$,3,9)))
12766 IFLEFT\$(Y5\$,2)="AX" THENRETURN
12768 GOT014950
12800 Y1\$="-----";REM***
12801 RETURN
12850 Y1\$="ADJ. CHAN. POWER DB";REM***
12851 GOSUB12921
12852 ONYE GOT012853,12854
12853 GOSUB12860

12760 GOSUB12900
12800 Y1\$="-----"; REM***
12801 RETURN
12850 Y1\$="ADJ, CHAN, POWER DB"; REM***
12851 GOSUB12921
12852 ONY9GOT012853,12854
12853 GOSUB12860
12854 GOSUB12907;GOSUB12863
12855 Y3\$="AN"+Y4\$; GOSUB11312;Y2=Y
12856 Y5\$="B0118.>"; GOSUB16010
12857 ONY9GOT012859,12858
12858 GOSUB11950;Y=Y2;RETURN
12859 GOSUB11950;Y=60;YA=1;GOSUB12350;Y=Y2;RETURN
12860 Y=60;YA=1,25;GOSUB12350;Y=Y*10
12861 IFY>4995THENY=4995
12862 GOSUB10800;RETURN
12863 Y5\$="AD"+MID\$(STR\$(X(3)),2,8)+".";GOSUB16010;Y=X(6);GOSUB10350;RET
12900 Y1\$="ADJ, CHAN, POWER UW"; REM***
12901 GOSUB12921
12902 ONY9GOT012903,12904
12903 GOSUB12860
12904 GOSUB12907;GOSUB12863
12905 Y3\$="BZ"+Y4\$; GOSUB11312;Y2=Y
12906 GOT012856
12907 IFY9=1THENRETURN
12908 IFY9=2THENY5\$="B0117.>";GOSUB16010
12909 ON((YSXAND03)+1)GOT012910,12913,12915
12910 IFFE=0THENGOSUB12917
12911 IFFE=1THENGOSUB12919
12912 RETURN
12913 IFFE=1THENGOSUB12919
12914 RETURN
12915 IFFE=0THENGOSUB12917
12916 RETURN
12917 Y5\$="B0118,AD10.>";GOSUB16010;Y5\$="AN.>";GOSUB16010
12918 YS%=YSXAND252;YS%=YS%OR1;Y5\$="B0117.>";GOSUB16010;RETURN
12919 Y5\$="B0118,AD25.>";GOSUB16010;Y5\$="AN.>";GOSUB16010
12920 YS%=YSXAND252;YS%=YS%OR2;Y5\$="B0117.>";GOSUB16010;RETURN
12921 IFY=1THENY4\$=""
12922 IFY=-1THENY4\$=""
12923 IF(X(3)=100RX(3)=12,50RX(3)=200RX(3)=25)AND(Y=1ORY=-1)THENY9=1;RET
12924 IFYS\$<>"P"THENY9=2;RETURN
12925 GOT014950
12950 Y1\$="-----"; REM***
12951 RETURN
13000 Y1\$="-----"; REM***
13001 RETURN
13050 Y1\$="RECEIVER-TEST"; REM***
13051 Y5\$="AR.>";GOSUB16010;Y=X(1);GOT010350
13100 Y1\$="-----"; REM***
13101 RETURN
13150 Y1\$="RX-S/N-MEAS.>"; REM***
13151 Y=Y*X(8)/100;GOSUB10550
13152 Y=1;GOSUB10750
13153 Y5\$="BB.>";GOSUB16010;GOSUB16000
13154 IF LEFT\$(Y5\$,2)="BB"THENY=(INT(10*VAL(MID\$(Y5\$,3,9))))/10;RETURN
13155 GOT014950
13200 Y1\$="RX-SINAD-MEAS.>"; REM***
13210 Y=Y*X(8)/100;GOSUB10550
13212 Y=1;GOSUB10750
13214 Y5\$="AS.>";GOSUB16010
13215 GOSUB16000
13216 IF LEFT\$(Y5\$,2)="AS"THENY=(INT(10*VAL(MID\$(Y5\$,3,9))))/10;RETURN
13218 GOT014950
13250 Y1\$="RX-SENS. F. S/N"; REM***
13251 Y7=Y;Y=,6*X(8);GOSUB10550
13252 Y5\$="BB"+MID\$(STR\$(Y7),2,8)+".";GOSUB16010;GOSUB16000
13253 IFLEFT\$(Y5\$,2)="BB"THEN13305
13254 GOT014950
13300 Y1\$="RX-SENS. F. SINAD"; REM***
13301 Y7=Y;Y=,6*X(8);GOSUB10550

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13215 GOSUB16000
13216 IF LEFT$(Y5$,2)="AS"THEN Y=(INT(10*VAL(MID$(Y5$,3,9)))/10):RETURN
13218 GOTO14950
13250 Y1$="RX-SENS. F. S/N":REM*****66
13251 Y7=Y:Y=.6*X(8):GOSUB10550
13252 Y5$="BB"+MID$(STR$(Y7),2,8)+":":GOSUB16010:GOSUB16000
13253 IF LEFT$(Y5$,2)="BB"THEN13305
13254 GOTO14950
13300 Y1$="RX-SENS. F. SINAD":REM*****67
13301 Y7=Y:Y=.6*X(8):GOSUB10550
13302 IF Y5$<>"A"THEN13305
13303 IF YE=1 THEN Y5$="B04.":GOSUB16010
13304 IF YE=0 THEN Y5$="B03.":GOSUB16010
13305 YE=0
13312 Y5$="AS"+MID$(STR$(Y7),2,8)+":":GOSUB16010:GOSUB16000
13313 IF LEFT$(Y5$,2)="AS"THEN13315
13314 GOTO14950
13315 Y=VAL(LEFT$(STR$(223*10^((VAL(MID$(Y5$,3,8))/20)+3)),5)):RETURN
13350 Y1$="QUIETING-SENS.":REM*****68
13351 Y=0:GOSUB10450:GOSUB11350:Y2=Y/10:Y=1:GOSUB10450:Y=0:GOSUB10550:Y1
13352 Y=Y1:GOSUB10400:GOSUB11350:IF ABS((Y-Y2)/Y2)<.2 THEN13354
13353 Y1=Y1*(1+Y/Y2)/2:GOTO13352
13354 Y=(INT(100*Y1))/100:RETURN
13400 Y1$="RX-BANDWIDTH 6DB":REM*****69
13401 YC=0:YD=0:Y4=.0064:Y7=0.2:Y=0:GOSUB10550:Y=0:GOSUB10450:Y=10:GOSUE
13402 Y888=Y/3.16:Y=1:GOSUB10450
13403 Y=Y7:GOSUB10400:Y=4:GOSUB11850
13404 IF ABS(Y-Y8)<.2*Y8 THEN Y8=Y:GOTO13406
13405 Y7=Y7*(1+Y/Y8)/2:GOTO13403
13406 Y=Y7*2:GOSUB10400:Y=4:GOSUB11850:YB=Y:GOSUB13410
13407 Y5=Y6:Y4=-Y4:GOSUB13410
13408 Y=X(1):GOSUB10350
13409 Y=(INT(((Y5-Y6)*10000))/10:Y1=(INT(((Y5+Y6)/2)-X(1))*10000))/10:RE
13410 Y6=X(1):Y9=1
13411 Y6=Y6+Y4/Y9:IFY6=YC THEN13417
13412 YC=YD:YD=Y6:Y=Y6:GOSUB10350:Y=4:GOSUB11850
13413 IF ABS(Y-Y8)<.1*Y8 THEN RETURN
13414 IF ABS(Y8-Y)>ABS(Y-YB) THEN Y9=Y/2
13415 IF ABS(Y9)=64 THEN Y9=32
13416 Y9=SGN(YB-Y)*ABS(Y9*2):YB=Y:GOTO13411
13417 Y6=(Y6+YD)/2:RETURN
13450 Y1$="-----":REM*****70
13451 RETURN
13500 Y1$="MOD. ACC. BANDWIDTH":REM*****71
13501 Y=12:GOSUB13300:Y=2*Y:GOSUB10400:Y1=60:YH=40
13502 Y=Y1:GOSUB13200:YK=ABS(Y-12):IFYK<7 THEN YH=80:IFYK<1,5 THEN13504
13503 Y1=Y1*10^((Y-12)/YH):GOTO13502
13504 Y=60:GOSUB13200:Y=(INT(Y1*X(8)))/50:RETURN
13550 Y1$="SQUELCH":REM*****72
13551 Y1=.22
13552 Y1=Y1*.5:Y=Y1:GOSUB10400:GOSUB11350:IFY<50 THEN13552
13553 Y=-1:GOSUB10500:GOSUB10500:Y1=Y1*.977:GOSUB11350:IFY>50 THEN13553
13554 Y2=Y1:Y1=(INT(Y1*100))/100
13555 Y2=Y2/.977:Y=Y2:GOSUB10400:GOSUB11350:IFY<50 THEN13555
13556 Y2=(INT(Y2*100))/100:Y=(INT(200*LOG(Y2/Y1)/LOG(10)))/10:RETURN
13600 Y1$="-----":REM*****73
13601 GOTO13550
13650 Y1$="-----":REM*****74
13651 RETURN
13700 Y1$="-----":REM*****75
13701 RETURN
13750 Y1$="RX. MOD. FREQU. RESP.":REM*****76
13751 GOSUB11554:Y=1:GOSUB10750
13752 Y=.2*X(8):GOSUB10550:GOSUB11350:Y(0)=Y
13753 FOR Y8=1 TO Y9:Y=X(20+Y8):GOSUB10750:GOSUB11350
13754 Y(Y8)=(INT(200*LOG(Y/Y(0))/LOG(10)))/10:NEXT Y8
13755 Y=1:GOSUB10750:RETURN
13800 Y1$="DUPLEXER-CHECK":REM*****77
13801 Y=12:GOSUB13300:Y2=Y:GOSUB11950:Y=X(1):GOSUB10350:Y=12:GOSUB13300
13802 Y4=Y:GOSUB13050:Y=(INT(200*LOG(Y4/Y2)/LOG(10)))/10:RETURN

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13801 Y=12: GOSUB13300: Y2=Y: GOSUB11950: Y=X(1): GOSUB10350: Y=12: GOSUB13300
13802 Y4=Y: GOSUB13050: Y=(INT(200*LOG(Y4/Y2)/LOG(10)))/10: RETURN
13850 Y1$="IMAGE-FREQ, REJECT, "; REM***78
13851 Y=12: GOSUB13300: Y2=Y: Y=X(1)+2*X(5): GOSUB10350: Y8=1
13852 Y=Y8: GOSUB10400: Y=60: GOSUB13200: IFY8=1E6 THEN13857
13853 IF ABS(Y-12)<3 THEN13855
13854 YH=48: GOSUB13875: GOT013852
13855 IFABS(Y-12)<.5 THEN13857
13856 YH=80: GOSUB13875: GOT013852
13857 Y4=Y8: GOSUB13050: Y=(INT(200*LOG(Y2/Y4)/LOG(10)))/10: RETURN
13875 Y8=(INT(100*Y8*10^((12-Y)/YH)))/100
13876 IFY8>1E6 THEN Y8=1E6
13877 RETURN
13900 Y1$="-----"; REM****9
13910 RETURN
13950 Y1$="-----"; REM**80
13960 GOT014950
14000 Y1$="-----"; REM****81
14010 RETURN
14050 Y1$="-----"; REM****82
14060 RETURN
14100 Y1$="-----"; REM****83
14108 RETURN
14150 Y1$="-----"; REM****84
14158 RETURN
14200 Y1$="-----"; REM****85
14230 RETURN
14250 Y1$="ANALOG DISPLAY"; REM****86
14251 IFY3=1 THEN14266
14252 IFY>Y1 AND Y<Y2 THEN Y3=0: RETURN
14253 Y3=1: IFPEEK(826)=169 THEN14260
14254 Y$(0)="169, 032, 162, 016, 157, 248, 129, 232, 208, 250, 162, 030, 169, 233, 157
14255 Y$(1)="130, 157, 048, 130, 169, 223, 157, 010, 130, 157, 051, 130, 169, 160, 157
14256 Y$(2)="130, 157, 050, 130, 157, 089, 130, 157, 090, 130, 157, 129, 130, 157, 130
14257 Y$(3)="157, 169, 130, 157, 170, 130, 157, 209, 130, 157, 210, 130, 096, 210, 130
14258 FORY4=0 TO 3: FORY5=0 TO 15: Y=VAL(RIGHT$(Y$(Y4), 63-Y5*4))
14259 POKE826+Y4*16+Y5, Y: NEXTY5: NEXTY4
14260 POKE158, 0
14261 PRINT"图": Y$: "圆圆圆圆": PRINTTAB(11)Y1, TAB(29)Y2
14262 PRINTTAB(12)"----|||||||----|||||||----|||||||----||||||\ /||||||\ /";
14263 PRINT"-----ooooo----|||||||----|||||||----|||||||----||||||\ /||||||\ /";
14264 PRINT"||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||";
14265 Y5=(12*Y2-24*Y1)/(Y2-Y1): Y6=12/(Y2-Y1)
14266 Y9=Y5+Y*Y6: IFY9<0 THEN Y9=0
14267 IFY9>36 THEN Y9=36
14268 POKE 837, Y9: SYS 826
14269 GETY1$: IFY1$="" THEN RETURN
14270 Y3=0: PRINT"U": RETURN
14300 Y1$="TEXT ON SCREEN"; REM****87
14301 Y=LEN(Y$): PRINT: POKE158, 0
14302 Y$=Y$+" "; IFLEN(Y$)<39 THEN14302
14303 PRINT"口": Y$: HOLD300: PRINT"口": Y$: HOLD300: GETY1$: IFY1$="" THEN14303
14304 PRINT"口" RETURN
14350 Y1$="TEXT ON PRINTER"; REM****88
14351 OPEN99, 230: Y1=6: IFY=1 THEN Y$=CHR$(15)+Y$+CHR$(13)+CHR$(14)
14352 IFY=2 THEN Y$=CHR$(27)+CHR$(14)+Y$+CHR$(13)+CHR$(27)+CHR$(15): Y1=3
14353 IFY=3 THEN Y$=""
14354 PRINT#99, SPC(Y1): Y$: CLOSE99: RETURN
14400 Y1$="OUTPUT ON PRINTER"; REM****89
14401 OPEN99, 230: PRINT#99, SPC(6): Y$: SPC(50-LEN(Y$)): Y: CLOSE99: RETURN
14450 Y1$="LIMIT-COMP, PRINTER"; REM****90
14451 IFY<Y10 THEN14453
14452 GOT014400
14453 OPEN99, 230: PRINT#99, SPC(6): Y$: SPC(54-LEN(Y$)): "*" " "; Y: CLOSE99: RETL
14500 Y1$="LIMIT-COMP, SCREEN"; REM****91
14501 IFY<Y10 THEN14503
14502 PRINTY$: TAB(33)Y: RETURN
14503 PRINTY$: TAB(28)"***": TAB(33)Y: RETURN
14550 Y1$="DISPL, FREQ, RESP, "; REM****92
14551 Y8=.5: Y5=99: YA=-99: FORY1=1 TO Y9: TEY5>Y(Y1) THEN Y5=Y(Y1)

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14304 PRINT"11"                                     11 RETURN
14350 Y1$="TEXT ON PRINTER":REM****88
14351 OPEN99,230:Y1=6:IFY=1THENY$=CHR$(15)+Y$+CHR$(13)+CHR$(14)
14352 IFY=2THENY$=CHR$(27)+CHR$(14)+Y$+CHR$(13)+CHR$(27)+CHR$(15);Y1=3
14353 IFY=3THENY$=""
14354 PRINT#99,SPC(Y1):Y$:CLOSE99:RETURN
14400 Y1$="OUTPUT ON PRINTER":REM****89
14401 OPEN99,230:PRINT#99,SPC(6):Y$:SPC(50-LEN(Y$)):Y:CLOSE99:RETURN
14450 Y1$="LIMIT-COMP. PRINTER":REM****90
14451 IFY<Y10RY>Y2THEN14453
14452 GOTO14400
14453 OPEN99,230:PRINT#99,SPC(6):Y$:SPC(54-LEN(Y$)):"*   ";Y:CLOSE99:RETU
14500 Y1$="LIMIT-COMP. SCREEN":REM****91
14501 IFY<Y10RY>Y2THEN14503
14502 PRINY$:TAB(33)Y:RETURN
14503 PRINY$:TAB(28)"***":TAB(33)Y:RETURN
14550 Y1$="DISPL. FREQ. RESP.":REM****92
14551 Y8=.5:Y5=99:Y6=-99:FORY1=1TOY9:IFY5>Y(Y1)THENY5=Y(Y1)
14552 IFY(Y1)>Y6THENY6=Y(Y1)
14553 NEXT:Y6=Y6-Y5:IFY6>2THENY8=1:IFY6>4THENY8=2:IFY6>8THENY8=5
14554 IFY6>20THENY8=10
14555 Y7=Y8*INT(Y5/Y8)
14556 PRINT"1 DB
14557 FORY1=1TO5:PRINT"-----":NEXT
14558 PRINT"-----"
14559 PRINT"KHZ 0.1    0.3    1      3      10
14560 PRINT"圆":Y7+5*Y8:PRINT"圆圆":Y7+4*Y8:PRINT"圆圆圆":Y7+3*Y8
14561 PRINT"圆圆圆":Y7+2*Y8:PRINT"圆圆圆":Y7+Y8:PRINT"圆圆圆":Y7
14562 FORY1=1TOY9:PRINT"圆":;FORY2=1TO21-INT((Y(Y1)-Y7)*4/Y8+.5):PRINT"圆"
14563 NEXTY2:PRINTTAB(22+INT(.5+16*LOG(X(20+Y1))/LOG(10)))*";NEXTY1:RET
14600 Y1$="HARD-COPY":REM****93
14601 OPEN99,230:PRINT#99,CHR$(30):CLOSE99:SYS37906
14603 OPEN99,230:PRINT#99,CHR$(27):CHR$(10):CLOSE99
14605 OPEN99,230:PRINT#99,CHR$(31)::PRINT#99:CLOSE99:RETURN
14650 Y1$="-----":REM****94
14651 RETURN
14700 Y1$="-----":REM****95
14701 RETURN
14750 Y1$="-----":REM****96
14751 RETURN
14800 Y1$="-----":REM****97
14801 RETURN
14850 Y1$="-----":REM****98
14851 RETURN
14900 Y1$="-----":REM****99
14901 RETURN
14950 REM****ERROR-MESSAGE****100
14951 PRINT:POKE158,0
14952 PRINT"ERROR AT:";Y1$;" FROM R=";R:HOLD300
14953 PRINT"ERROR AT:";Y1$;" FROM R=";R:HOLD300
14954 GETY$:IFY$=""THEN14952
14955 PRINT"0":SPC(40):"00":Y2$="ERROR"
14960 PRINT:SYS(903):RETURN
16000 IECINSMFP,Y5$:RETURN
16010 IECOUTSMFP,Y5$:RETURN
READY.

```

```

10 REM*****
20 REM*
30 REM* SMFPZ DEMO PROGRAM USER #1/2 *
40 REM* -----
50 REM* ORIGINATOR: BAYRHUBER TBF   *
60 REM* MODIFIED : VENZIN MANETSCH *
70 REM* DATE      : 10. MAI. 1986/MK III
80 REM*
90 REM*****
100 Y1$="SMFPZ"
110 R=1:GOSUB 9000
120 R=6:Y=2:GOSUB9000 :REM FM
130 R=7:Y=3.5:GOSUB9000 :REM MAX. MOD.
140 Y1=2:Y=0:R=20:GOSUB9000
150 Y1=3:Y=0:R=20:GOSUB9000
160 Y1=4:Y=0:R=20:GOSUB9000
170 REM*****
180 REM*
190 REM* S E N D E R *
200 REM* -----
210 REM*
220 REM*****
230 :
240 GOSUB 3320
250 PRINT "L"
260 PRINT:PRINT:PRINT
270 PRINT"GERAETEDATEN"
280 PRINT"-----" 32
290 PRINT:PRINT:PRINT:PRINT
300 INPUT"BETRIEBSSPANNUNG IN VOLT =";B
310 Y3=2:Y1=(B-0.1):Y2=(B+0.1):R=35:GOSUB 9000
320 PRINT
330 R=35:GOSUB 9000
340 IF Y<Y1 THEN 310
350 IF Y>Y2 THEN 310
360 PRINT"BETRIEBSSPANNUNG = "TAB(25) Y "VOLT"
370 PRINT
380 INPUT"ANZAHL KANAELE          ";K$
390 IF ASC(K$)> 47 THEN 400
400 IF ASC(K$)< 58 THEN 430
410 POKE 198,0:POKE 197,130:POKE 196,560 AND 255
420 GOTO 380
430 K=ASC(K$)-48:IF K<1 THEN GOTO 380
440 Y1=2:Y=1:R=20:GOSUB9000
450 FOR L=1 TO K STEP 1
460 PRINT"L"
470 PRINT:PRINT:PRINT
480 PRINT"SENDERTEST"
490 PRINT"-----" 33
500 PRINT:PRINT:PRINT:PRINT
510 PRINT
520 PRINT
530 INPUT"EINSTELLEN KANAL ";K$(L)
540 IF ASC(K$(L))> 47 THEN 550
550 IF ASC(K$(L))< 58 THEN 580
560 POKE 198,0:POKE 197,129 :POKE 196,480 AND 255
570 GOTO 530
580 PRINT: K(L)=ASC(K$(L))-48
590 PRINT
600 R=41:GOSUB9000:IF Y>0.1THEN GOTO 640
610 R=40:GOSUB 9000
620 Y$="SENDER HOCHTASTEN      "
630 R=87:GOSUB9000
640 R=54:YE=2:GOSUB9000
650 IF Y<.4THEN680
660 PRINT"MESSUNG TX FREQUENZ    = ";Y;" MHZ"
670 X(6)=INT(200*Y+.5)/200

```