

Cable type : CAT.6 U/UTP PVC
 Size : 23AWG 4 PAIR
 Test-Equip. : KPA-HF 1800/4
 Lot number :

Customer : Taiko-Net
 Tester : HONG THO
 Cable length : 305.00
 Temperature : 22.0

Attenuation

| Frequency | Limit | Pair 1 | Pair 2 | Pair 3 | Pair 4 |
|-----------|---------|---------|---------|---------|---------|
| MHz | dB/100m | dB/100m | dB/100m | dB/100m | dB/100m |
| 0.772 | 1.8 | 1.4 | 1.4 | 1.4 | 1.4 |
| 1.00 | 2.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 4.00 | 3.8 | 3.2 | 3.3 | 3.3 | 3.3 |
| 8.00 | 5.3 | 4.9 | 4.9 | 5.0 | 5.0 |
| 10.00 | 6.0 | 5.4 | 5.5 | 5.5 | 5.5 |
| 16.00 | 7.6 | 6.8 | 6.9 | 7.0 | 6.9 |
| 20.00 | 8.5 | 7.7 | 7.8 | 8.0 | 7.9 |
| 25.00 | 9.5 | 8.7 | 8.8 | 8.9 | 8.8 |
| 31.25 | 10.7 | 9.7 | 9.9 | 10.0 | 9.9 |
| 62.50 | 15.4 | 13.9 | 14.1 | 14.3 | 14.2 |
| 100.00 | 19.8 | 17.9 | 18.0 | 18.3 | 18.1 |
| 200.00 | 29.0 | 24.9 | 26.2 | 26.3 | 26.0 |
| 250.00 | 32.8 | 27.8 | 29.5 | 30.3 | 30.0 |

Worst case
 Differenz to Limit

0.03 dB

at 243.77 MHz

Next Near

| Frequency | Limit | Pair 1-2 | Pair 1-3 | Pair 1-4 | Pair 2-3 | Pair 2-4 | Pair 3-4 |
|-----------|---------|----------|----------|----------|----------|----------|----------|
| MHz | dB/100m | dB/100m | dB/100m | dB/100m | dB/100m | dB/100m | dB/100m |
| 0.772 | 76.0 | 88.6 | 89.0 | 93.1 | 88.9 | 80.5 | 86.1 |
| 1.00 | 74.3 | 88.6 | 89.0 | 93.1 | 88.9 | 80.5 | 86.1 |
| 4.00 | 65.3 | 81.1 | 85.3 | 85.0 | 83.4 | 79.4 | 85.9 |
| 8.00 | 60.8 | 83.1 | 89.6 | 100.1 | 96.2 | 73.0 | 75.1 |
| 10.00 | 59.3 | 79.4 | 84.9 | 87.9 | 80.3 | 83.5 | 76.3 |
| 16.00 | 56.3 | 69.9 | 85.7 | 88.5 | 72.6 | 76.6 | 71.3 |
| 20.00 | 54.8 | 69.1 | 83.1 | 76.4 | 86.9 | 73.1 | 72.7 |
| 25.00 | 53.3 | 73.3 | 85.0 | 77.0 | 68.7 | 80.4 | 68.4 |
| 31.25 | 51.9 | 77.3 | 72.4 | 91.9 | 83.1 | 74.0 | 76.1 |
| 62.50 | 47.4 | 76.1 | 73.8 | 65.9 | 74.3 | 62.4 | 65.7 |
| 100.00 | 44.3 | 59.1 | 75.4 | 69.1 | 73.0 | 65.2 | 65.9 |
| 200.00 | 39.8 | 63.4 | 76.8 | 70.4 | 61.1 | 67.6 | 64.2 |
| 250.00 | 38.3 | 50.8 | 69.0 | 60.2 | 65.9 | 56.6 | 61.1 |

Worst case
 Difference to Limit

4.47 dB

at 0.77 MHz

Powersum NEXT

| Frequency | Limit | Pair 1 | Pair 2 | Pair 3 | Pair 4 |
|-----------|---------|---------|---------|---------|---------|
| MHz | dB/100m | dB/100m | dB/100m | dB/100m | dB/100m |
| 0.772 | 74.0 | 85.07 | 79.34 | 83.04 | 79.23 |
| 1.00 | 72.3 | 85.07 | 79.34 | 83.04 | 79.23 |
| 4.00 | 63.3 | 78.56 | 76.23 | 79.97 | 77.64 |
| 8.00 | 58.8 | 82.15 | 72.56 | 74.88 | 70.88 |
| 10.00 | 57.3 | 77.88 | 75.97 | 74.43 | 75.30 |
| 16.00 | 54.3 | 69.77 | 67.50 | 68.82 | 70.11 |
| 20.00 | 52.8 | 68.26 | 67.63 | 72.18 | 69.02 |
| 25.00 | 51.3 | 71.57 | 67.19 | 65.49 | 67.61 |
| 31.25 | 49.9 | 71.11 | 71.99 | 70.58 | 71.88 |
| 62.50 | 45.4 | 64.91 | 61.97 | 64.55 | 59.57 |
| 100.00 | 42.3 | 58.60 | 58.00 | 64.78 | 61.66 |
| 200.00 | 37.8 | 62.46 | 58.52 | 59.27 | 61.87 |
| 250.00 | 36.3 | 50.26 | 49.68 | 59.35 | 54.08 |

Impedance

| Frequency | Nominal | Pair 1 | Pair 2 | Pair 3 | Pair 4 |
|-----------|---------|--------|--------|--------|--------|
| MHz | Ohm | Ohm | Ohm | Ohm | Ohm |
| 0.772 | 100 | 108.2 | 108.2 | 106.9 | 107.4 |
| 1.00 | 100 | 108.2 | 108.2 | 106.9 | 107.4 |
| 4.00 | 100 | 104.3 | 104.0 | 104.5 | 104.1 |
| 8.00 | 100 | 103.8 | 102.9 | 103.7 | 103.2 |
| 10.00 | 100 | 102.0 | 102.7 | 104.5 | 103.1 |
| 16.00 | 100 | 102.9 | 103.2 | 103.5 | 102.9 |
| 20.00 | 100 | 102.8 | 102.8 | 103.8 | 103.2 |
| 25.00 | 100 | 104.8 | 103.2 | 103.5 | 103.3 |
| 31.25 | 100 | 105.3 | 103.6 | 104.8 | 103.8 |
| 62.50 | 100 | 100.6 | 101.2 | 102.0 | 102.2 |
| 100.00 | 100 | 100.7 | 104.6 | 104.3 | 101.5 |
| 200.00 | 100 | 101.5 | 101.8 | 101.1 | 100.9 |
| 250.00 | 100 | 105.8 | 100.8 | 102.4 | 106.7 |

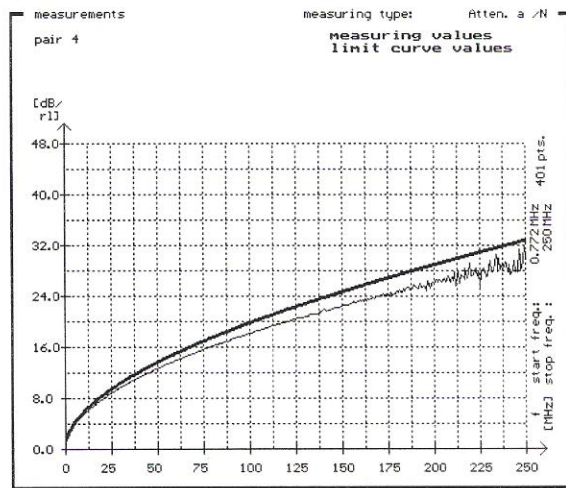
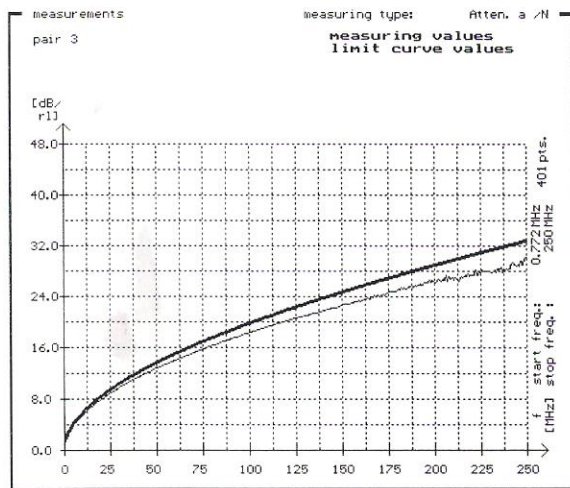
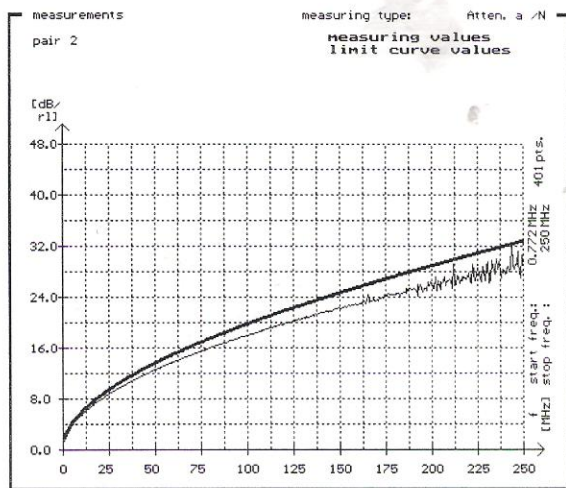
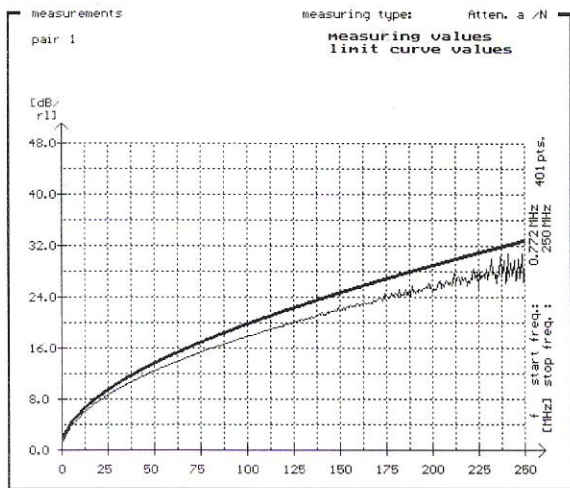
Worst case
Differenz to Limit

6.76 Ohm

at 0.77 MHz

Return Loss RL

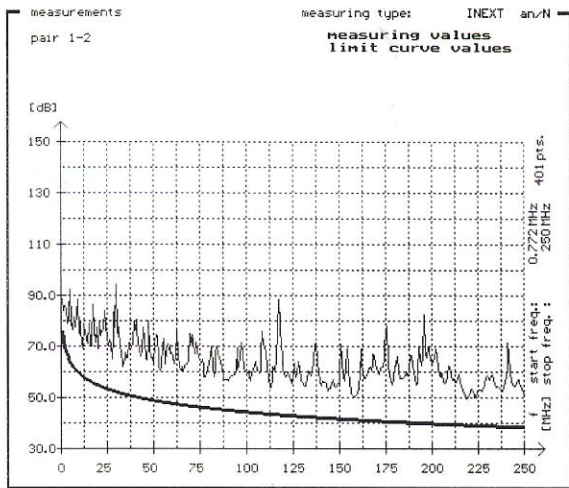
| Frequency MHz | Min dB | Pair 1 dB | Pair 2 dB | Pair 3 dB | Pair 4 dB |
|------------------|-----------|--------------|--------------|--------------|--------------|
| 1.00 | 20.0 | 26.0 | 25.8 | 26.8 | 26.1 |
| 4.00 | 23.0 | 32.4 | 32.9 | 32.3 | 32.7 |
| 8.00 | 24.5 | 34.2 | 35.8 | 34.6 | 35.3 |
| 10.00 | 25.0 | 38.2 | 37.4 | 33.1 | 36.0 |
| 16.00 | 25.0 | 36.6 | 35.2 | 35.2 | 36.3 |
| 20.00 | 25.0 | 36.9 | 37.3 | 34.6 | 36.2 |
| 25.00 | 24.3 | 32.3 | 35.1 | 35.2 | 35.7 |
| 31.25 | 23.6 | 31.4 | 34.2 | 32.6 | 34.2 |
| 62.50 | 21.5 | 43.9 | 42.7 | 39.9 | 39.2 |
| 100.00 | 20.1 | 36.1 | 32.9 | 33.6 | 38.8 |
| 200.00 | 18.0 | 42.2 | 37.1 | 33.6 | 34.9 |
| 250.00 | 17.3 | 29.6 | 43.6 | 32.7 | 28.4 |



Near end crosstalk Next

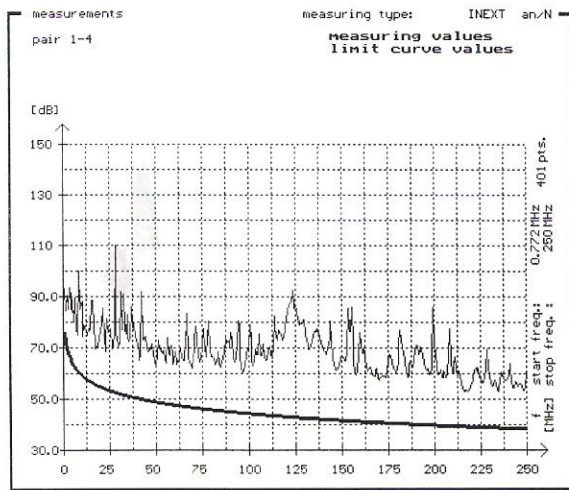
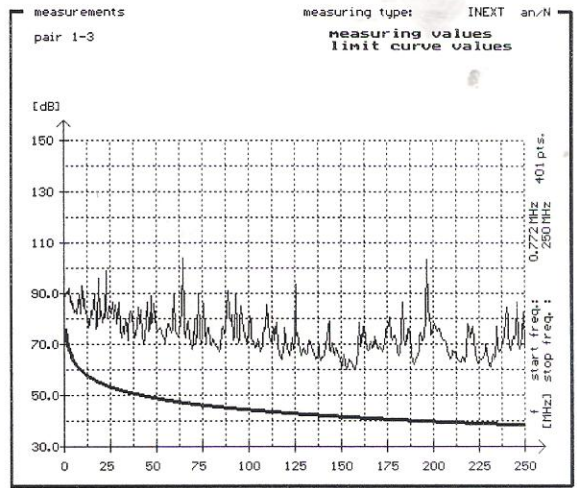
AN_N Messwerte Pair 1/2 NEAR

AN_N Messwerte Pair 1/3 NEAR



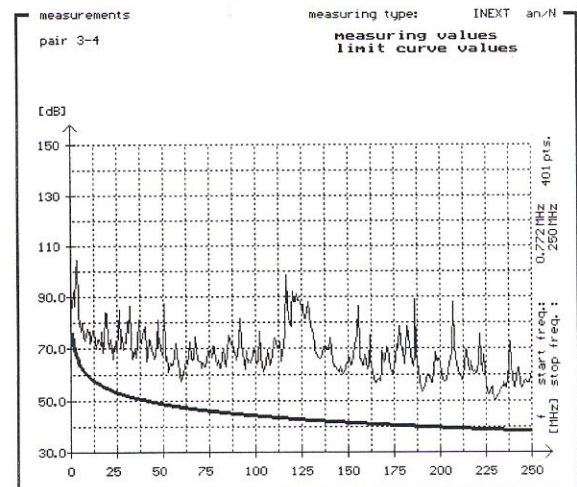
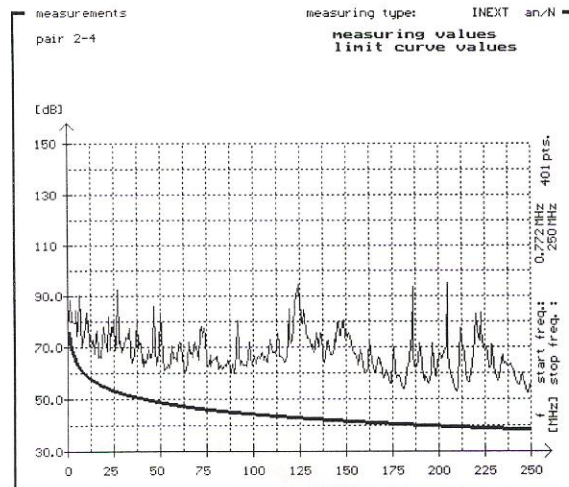
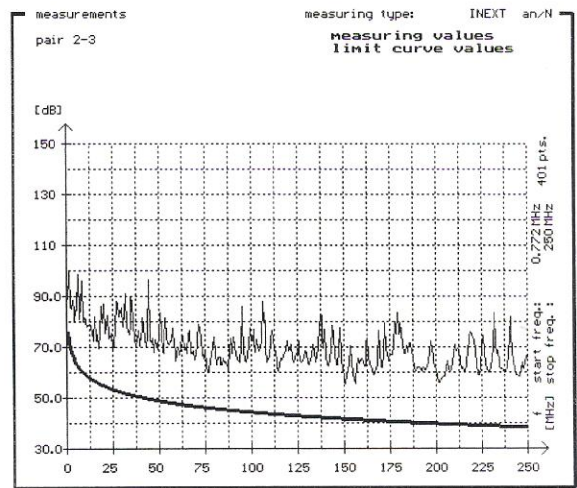
AN_N Messwerte Pair 1/4 NEAR

AN_N Messwerte Pair 2/3 NEAR

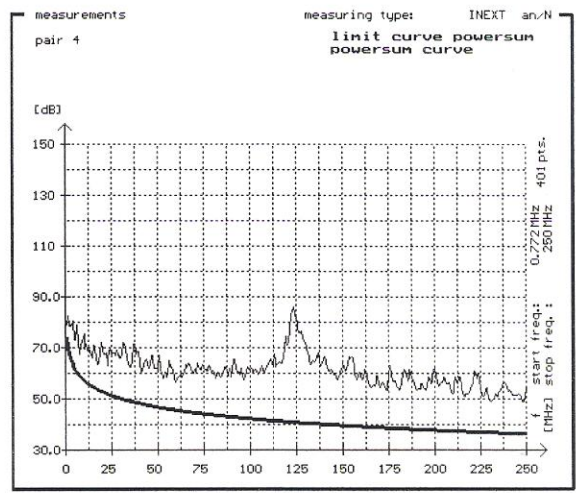
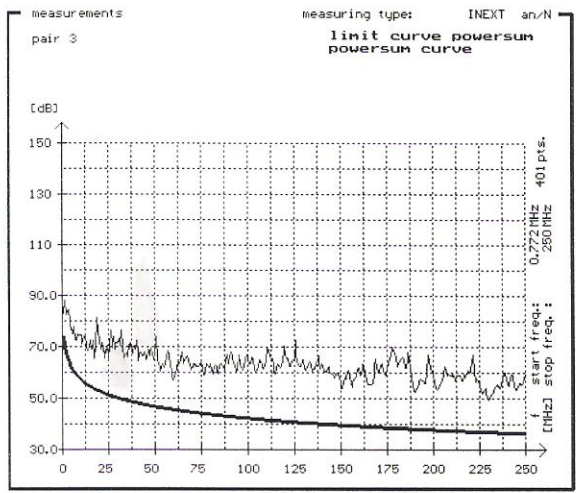
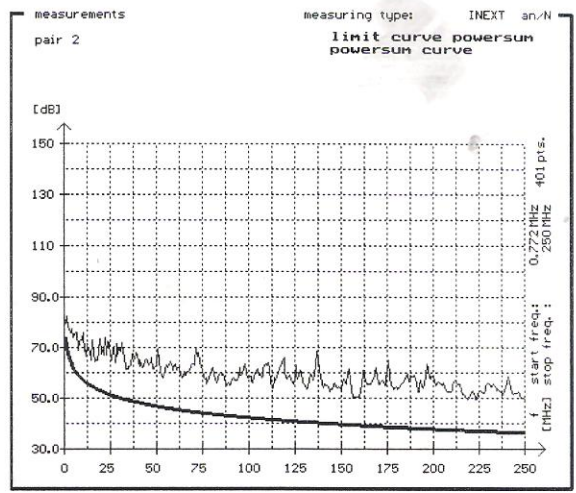
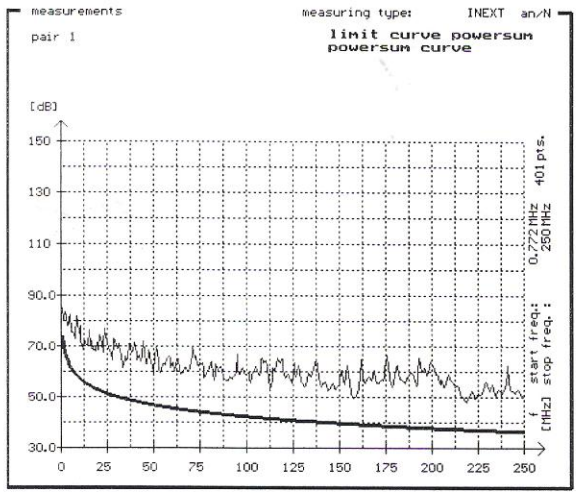


AN_N Messwerte Pair 2/4 NEAR

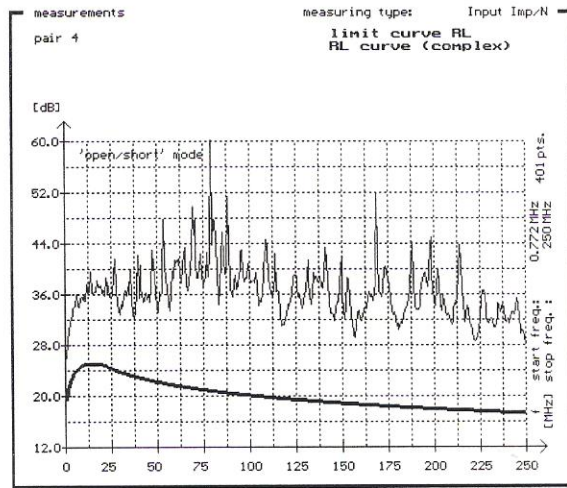
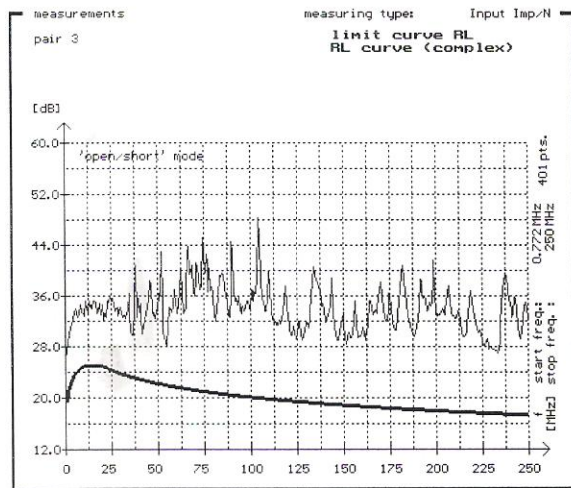
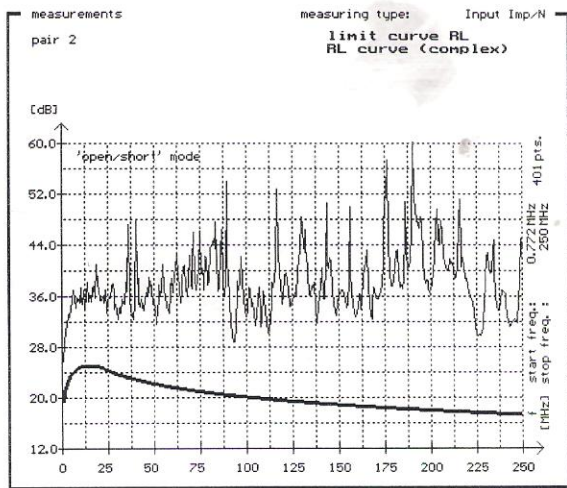
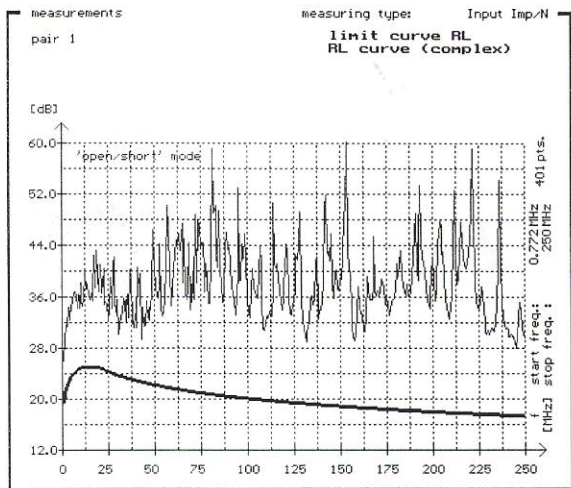
AN_N Messwerte Pair 3/4 NEAR



PS NEXT Near

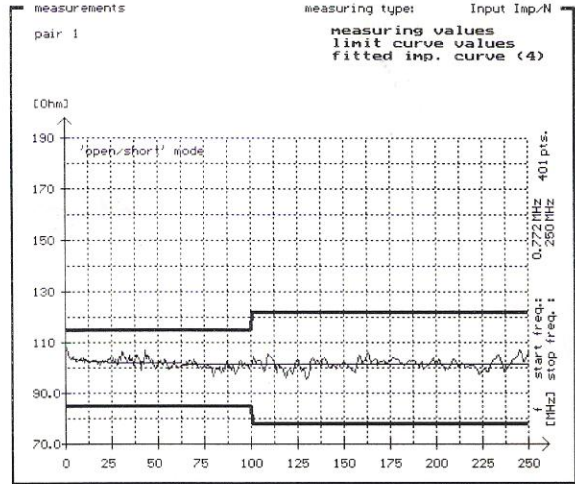


Return Loss RL

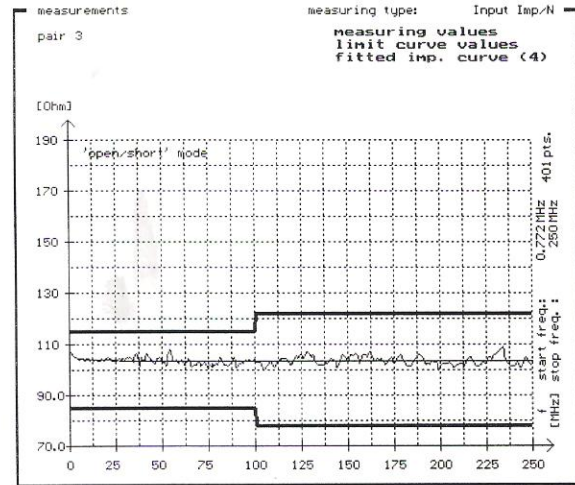
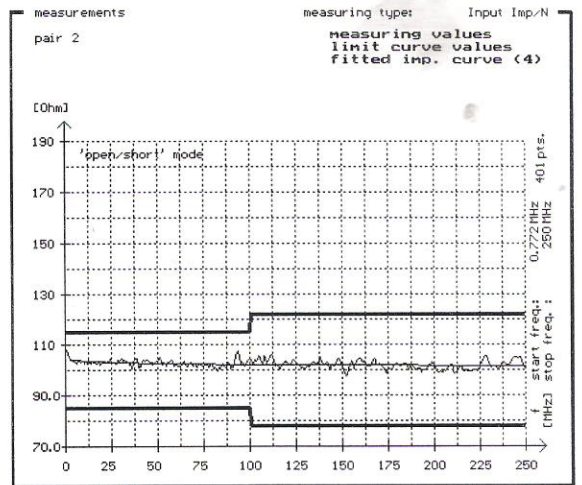


Impedance

CHI Messwerte Pair 1 NEAR
CHI Messwerte Pair 2 NEAR



CHI Messwerte Pair 3 NEAR
CHI Messwerte Pair 4 NEAR



CHI Messwerte Pair 1-4 NEAR
CHI Max-Min Pair 1-4 NEAR

