

**Channel-Measurement****Draka Multimedia Cable****DUT:**

Patch-Cable near-end: **5 m UC600 SS27 4P (AMP-Plug)**
 Outlet near-end: **Krone Highband Cat.6 shielded modular**
 Installation Cable: **90 m UC400 S24 4P**
 Outlet far-end: **Krone Highband Cat.6 shielded modular**
 Patch-Cable far-end: **5 m UC600 SS27 4P (AMP-Plug)**
 Frequency range: **1-300 MHz (number of points: 401)**
 Measuring equipment: **HP8753, KRMZ 1200**
 Evaluation according Class: **E**

Result: *The Channel fulfills the requirements of Class E according ISO/IEC JTC 1/SC 25/WG 3 N739.
 ACR is positive up to 300 MHz!*

Anquor frequencies / MHz: 100
 250

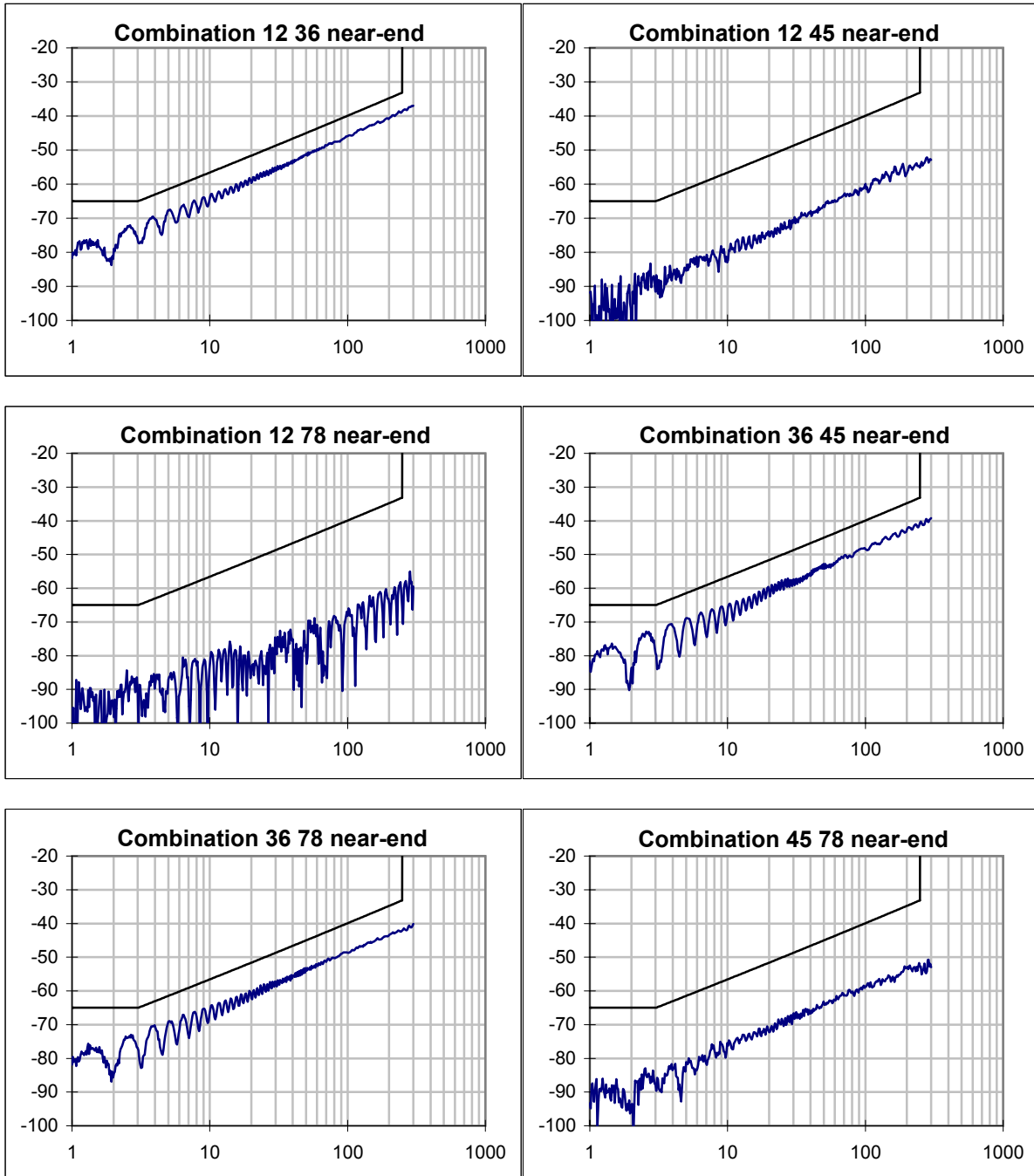
Date: 09.01.2002
 Tests by: Dr. C. Pfeiler
 Testlab: Draka Multimedia Cable
 Wohlaue Str. 15
 D-90475 Nürnberg

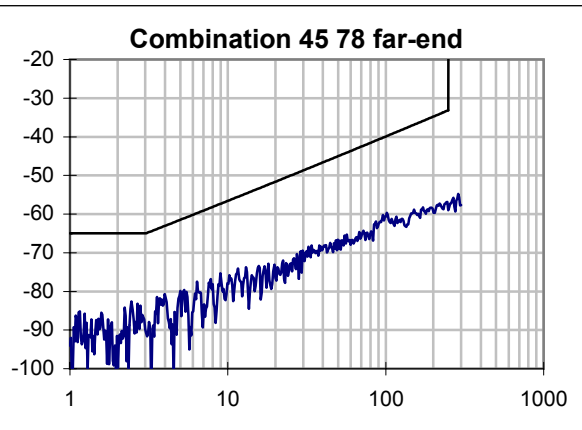
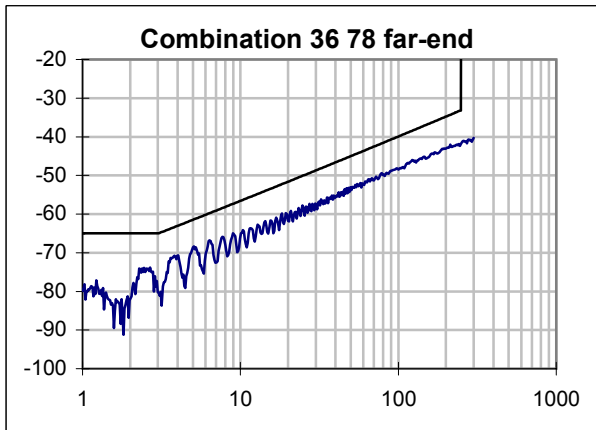
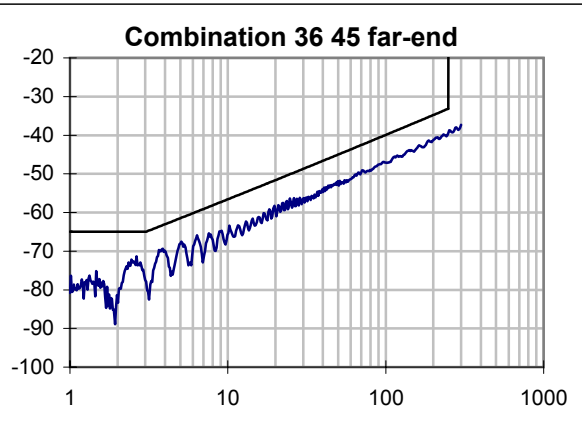
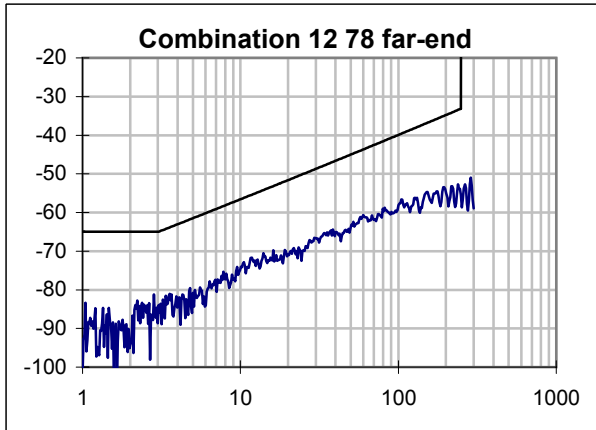
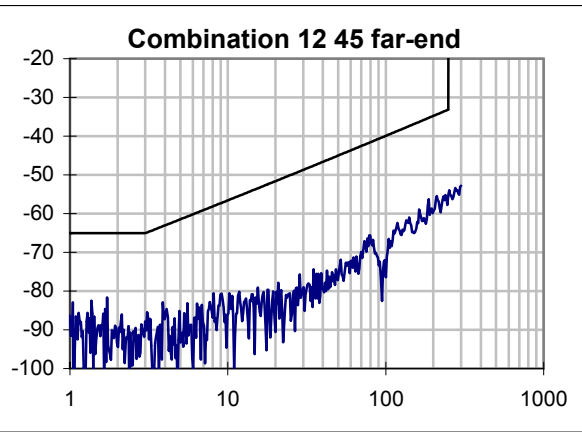
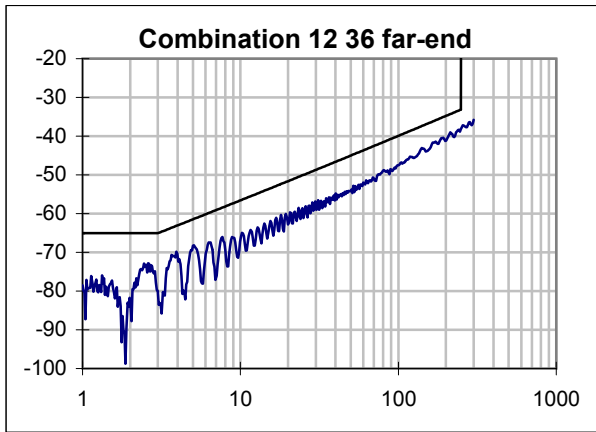
gepr.

Summary:

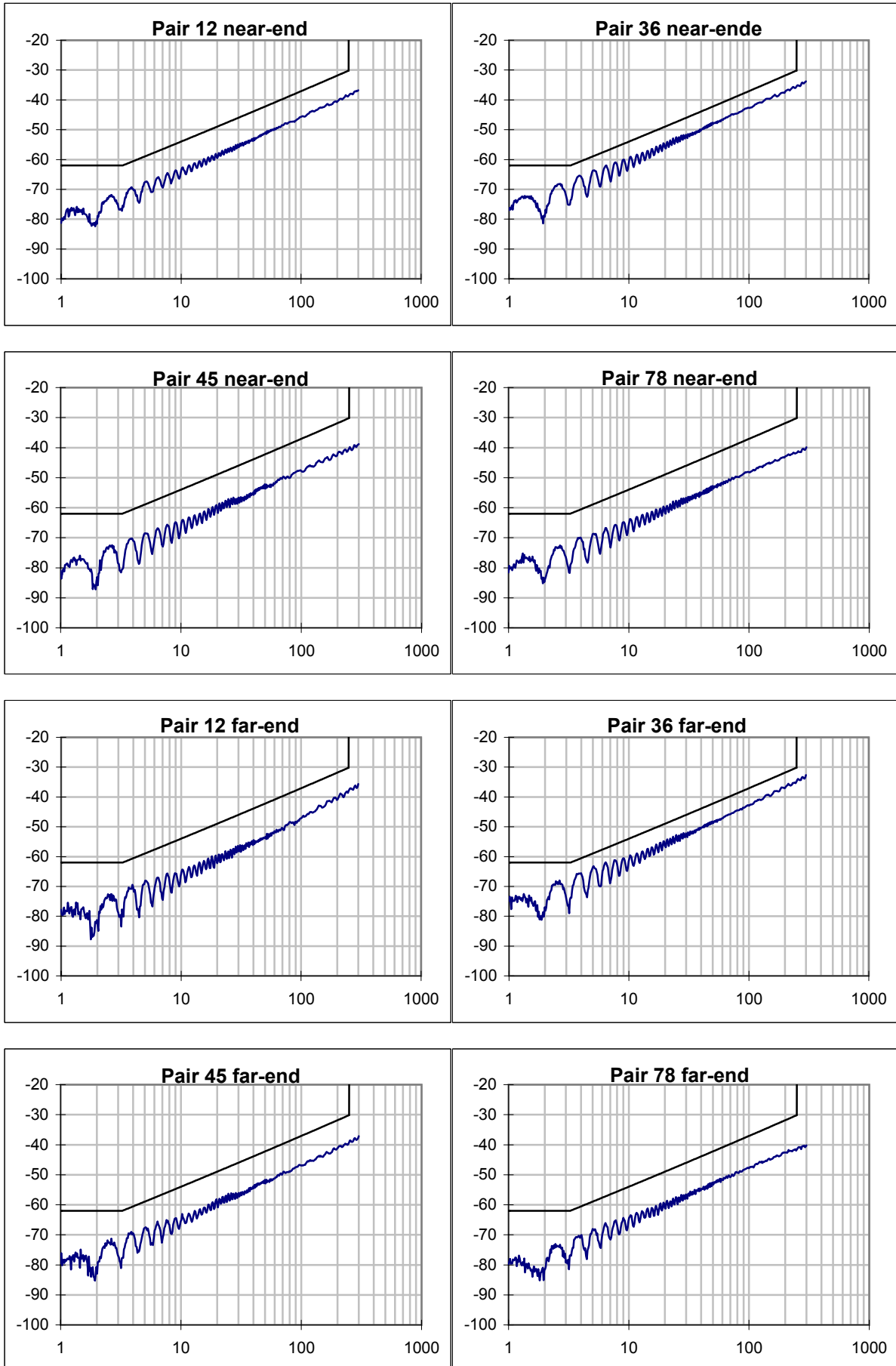
| Pair | 12 | 36 | 45 | 78 | Limit | skew/ns | Limit |
|------------------------|--------|--------|-------|-------|-------|---------|-------|
| max. delay / ns | 439,4 | 433,1 | 432,0 | 435,2 | | 8,2 | 50 |
| Att. @ 100MHz/dB | 19,57 | 18,98 | 19,13 | 18,88 | 21,7 | | |
| Att. @ 250MHz/dB | 32,36 | 30,96 | 31,05 | 30,77 | 35,9 | | |
| min PSNEXT-Mar. / dB | 7,46 | 4,20 | 8,26 | 8,92 | | | |
| @ f / MHz | 213,06 | 213,06 | 3,88 | 6,38 | | | |
| PSNEXT Lim. / dB | 31,37 | 31,37 | 60,77 | 57,21 | | | |
| PSNEXT @ 100 MHz | 47,22 | 42,80 | 46,86 | 47,69 | 37,1 | | |
| PSNEXT @ 250 MHz | 38,02 | 34,81 | 39,27 | 41,63 | 30,2 | | |
| min PSELFEXT-Mar. / dB | 19,62 | 15,66 | 17,31 | 21,49 | | | |
| @ f / MHz | 1,03 | 1,06 | 1,43 | 1,00 | | | |
| PSELFEXT Lim. / dB | 60,01 | 59,76 | 57,16 | 60,26 | | | |
| PSELFEXT @ 100 MHz | 51,09 | 39,21 | 39,88 | 48,42 | 20,3 | | |
| PSELFEXT @ 250 MHz | 40,64 | 36,80 | 35,63 | 45,37 | 12,3 | | |
| min PSACR-Mar. / dB | 8,8 | 4,7 | 8,6 | 9,4 | | | |
| @ f / MHz | 3,9 | 5,1 | 3,9 | 6,4 | | | |
| PSACR Lim. / dB | 56,6 | 54,1 | 56,6 | 52,0 | | | |
| PSACR @ 100 MHz | 27,66 | 23,61 | 27,87 | 28,66 | 15,4 | | |
| PSACR @ 250 MHz | 5,66 | 3,14 | 8,27 | 10,60 | -5,8 | | |
| min RL-Margin / dB | 6,6 | 5,2 | 8,5 | 6,1 | | | |
| @ f / MHz | 56,3 | 199,8 | 196,8 | 59,3 | | | |
| RL Limit / dB | 14,5 | 9,0 | 9,1 | 14,3 | | | |

| Pair Combination | 12 36 | 12 45 | 12 78 | 36 45 | 36 78 | 45 78 | Limit |
|----------------------|--------|-------|-------|-------|-------|-------|-------|
| min NEXT-Margin / dB | 4,68 | 16,68 | 16,20 | 6,07 | 7,02 | 17,37 | |
| @ f / MHz | 213,06 | 1,72 | 2,83 | 3,66 | 5,08 | 7,68 | |
| NEXT Limit / dB | 34,31 | 65,00 | 65,00 | 63,66 | 61,36 | 58,44 | |
| NEXT @ 100 MHz | 47,51 | 72,00 | 59,41 | 47,06 | 48,23 | 60,78 | 39,9 |
| NEXT @ 250 MHz | 38,18 | 55,28 | 55,47 | 39,43 | 41,90 | 59,04 | 33,1 |
| min ELFEXT-Mar. / dB | 17,3 | 20,1 | 25,8 | 14,6 | 19,3 | 23,5 | |
| @ f / MHz | 1,0 | 1,0 | 1,2 | 1,4 | 1,0 | 1,1 | |
| ELFEXT Lim. /dB | 63,01 | 63,01 | 61,77 | 60,16 | 63,26 | 62,64 | |
| ELFEXT @ 100 MHz | 52,49 | 57,45 | 64,67 | 39,97 | 48,63 | 64,82 | 23,3 |
| ELFEXT @ 250 MHz | 70,53 | 41,10 | 50,67 | 37,17 | 47,81 | 54,06 | 15,3 |
| min ACR-Margin / dB | 6,5 | 16,8 | 16,4 | 6,4 | 7,3 | 17,8 | |
| @ f / MHz | 3,9 | 1,7 | 2,8 | 3,7 | 3,8 | 2,5 | |
| ACR Limit / dB | 59,1 | 62,2 | 61,4 | 59,6 | 59,4 | 61,7 | |
| ACR @ 100 MHz | 27,94 | 52,44 | 39,85 | 28,08 | 29,25 | 41,65 | 18,2 |
| ACR @ 250 MHz | 5,82 | 22,92 | 23,11 | 8,47 | 10,94 | 27,99 | -2,8 |

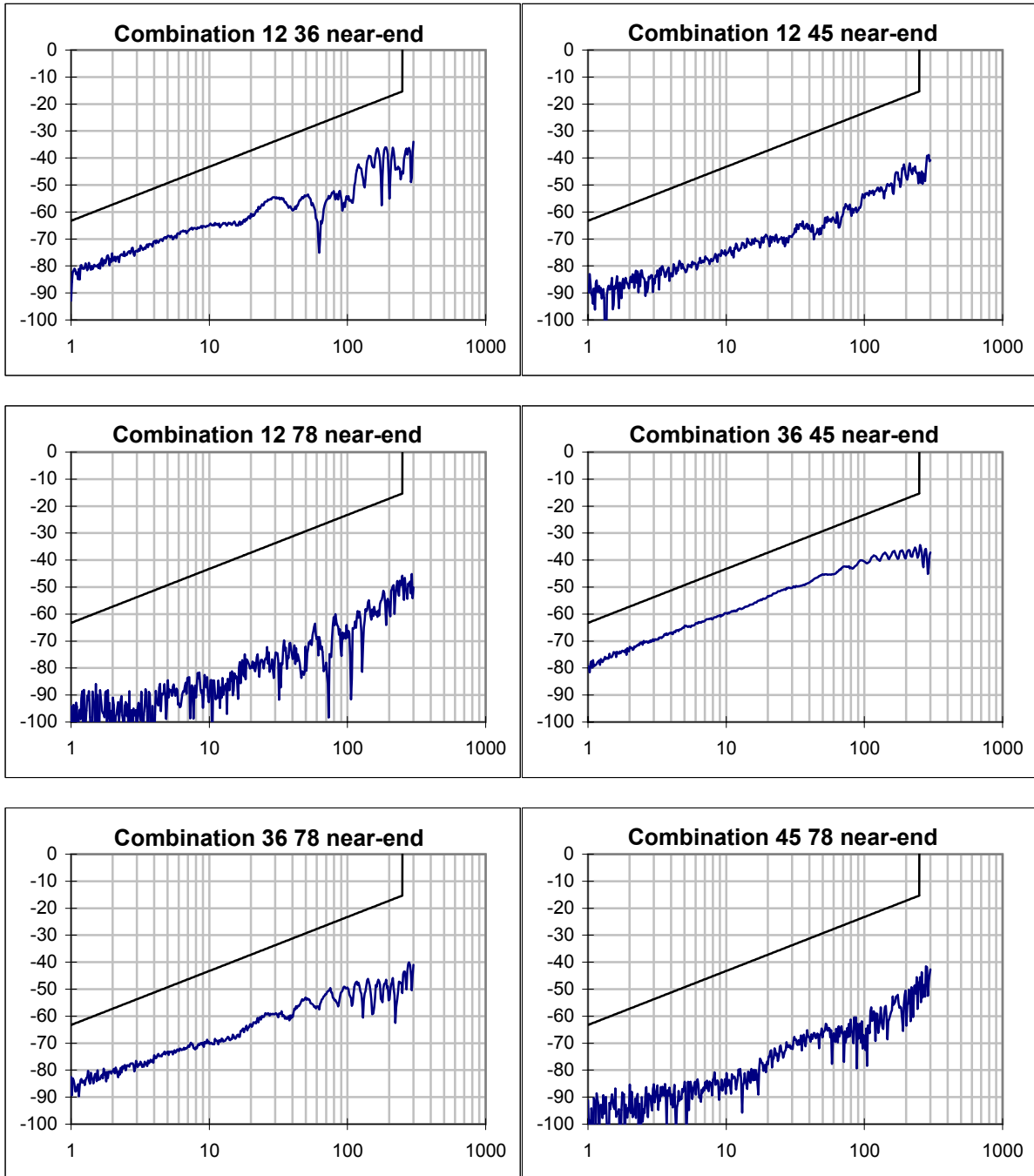


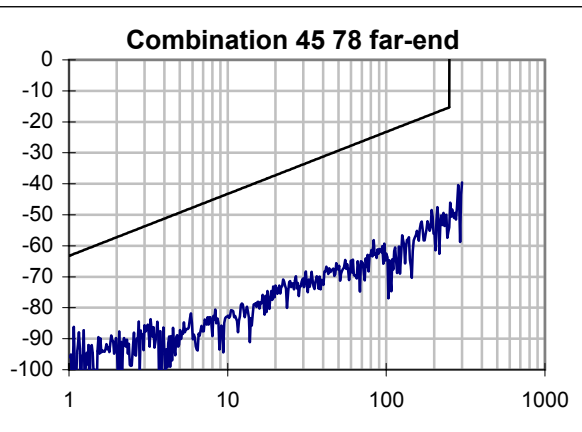
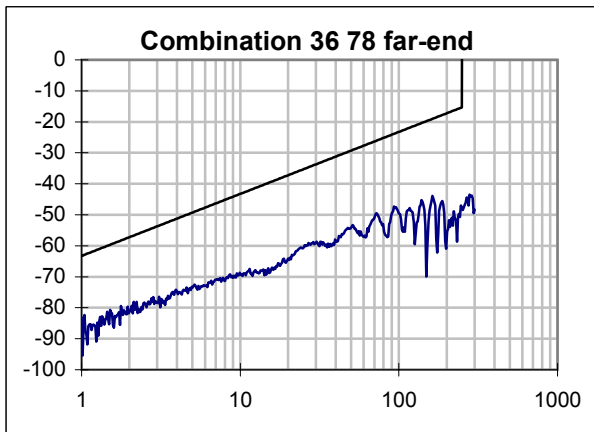
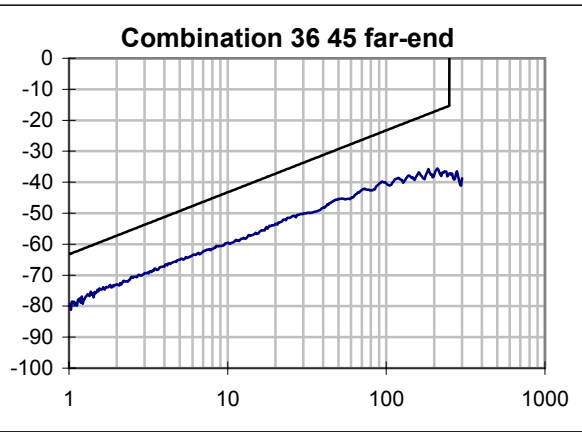
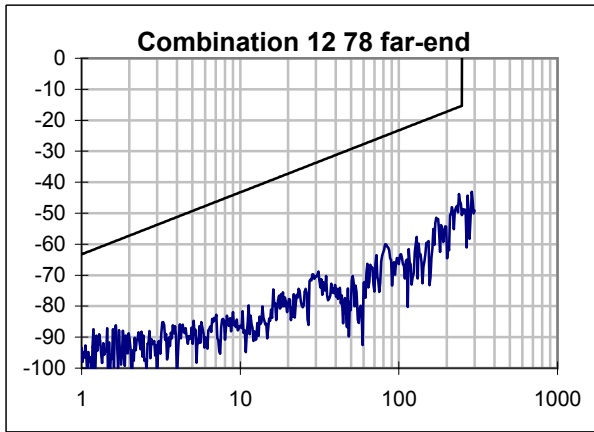
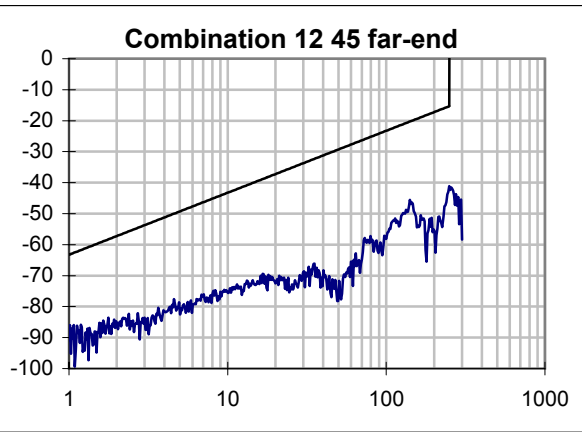
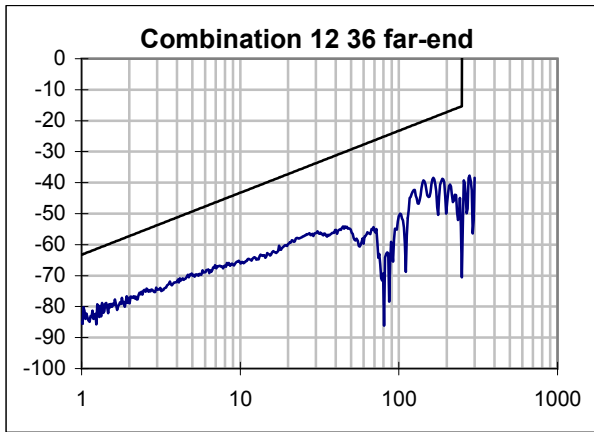


PSNEXT / dB

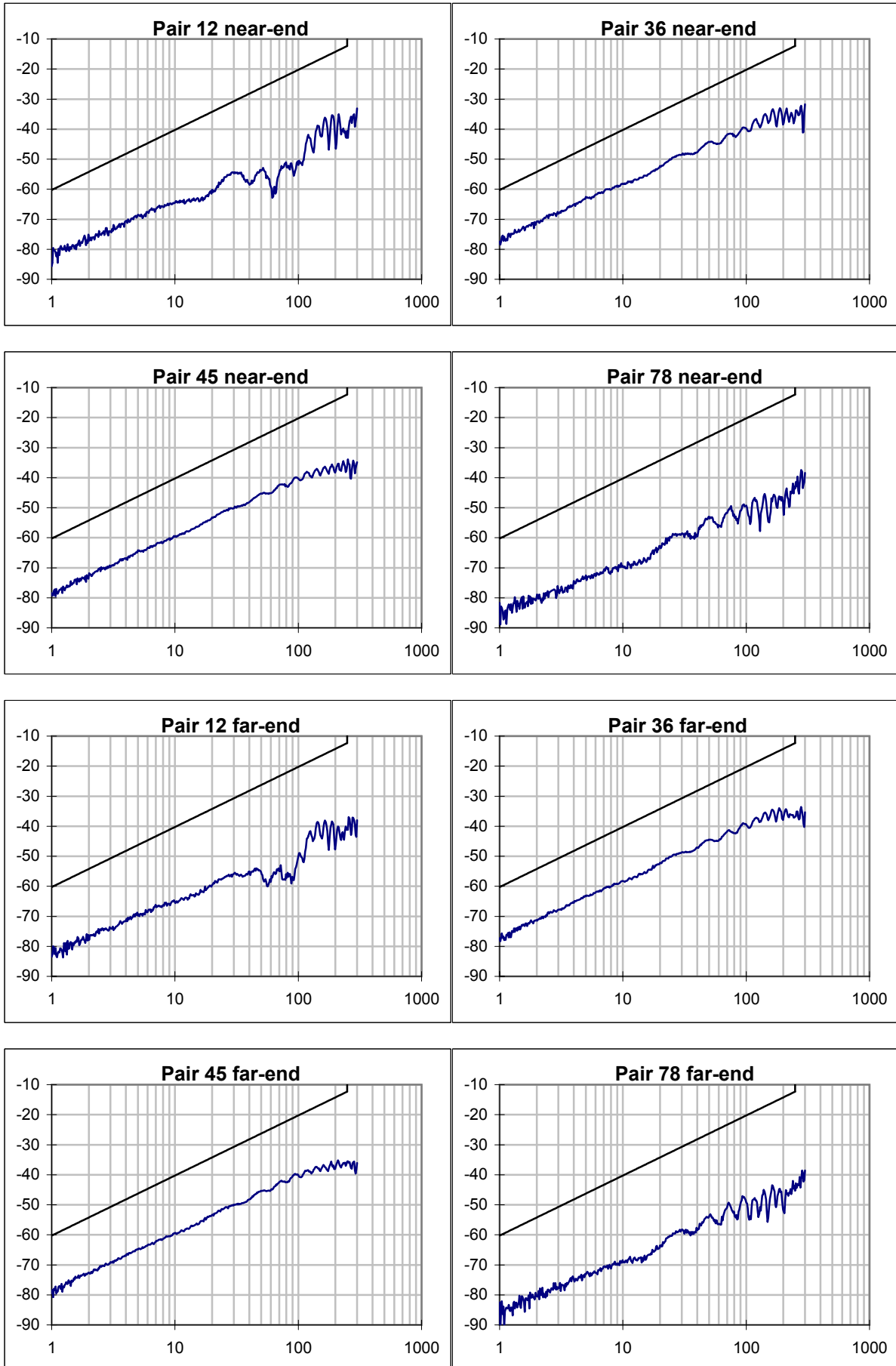


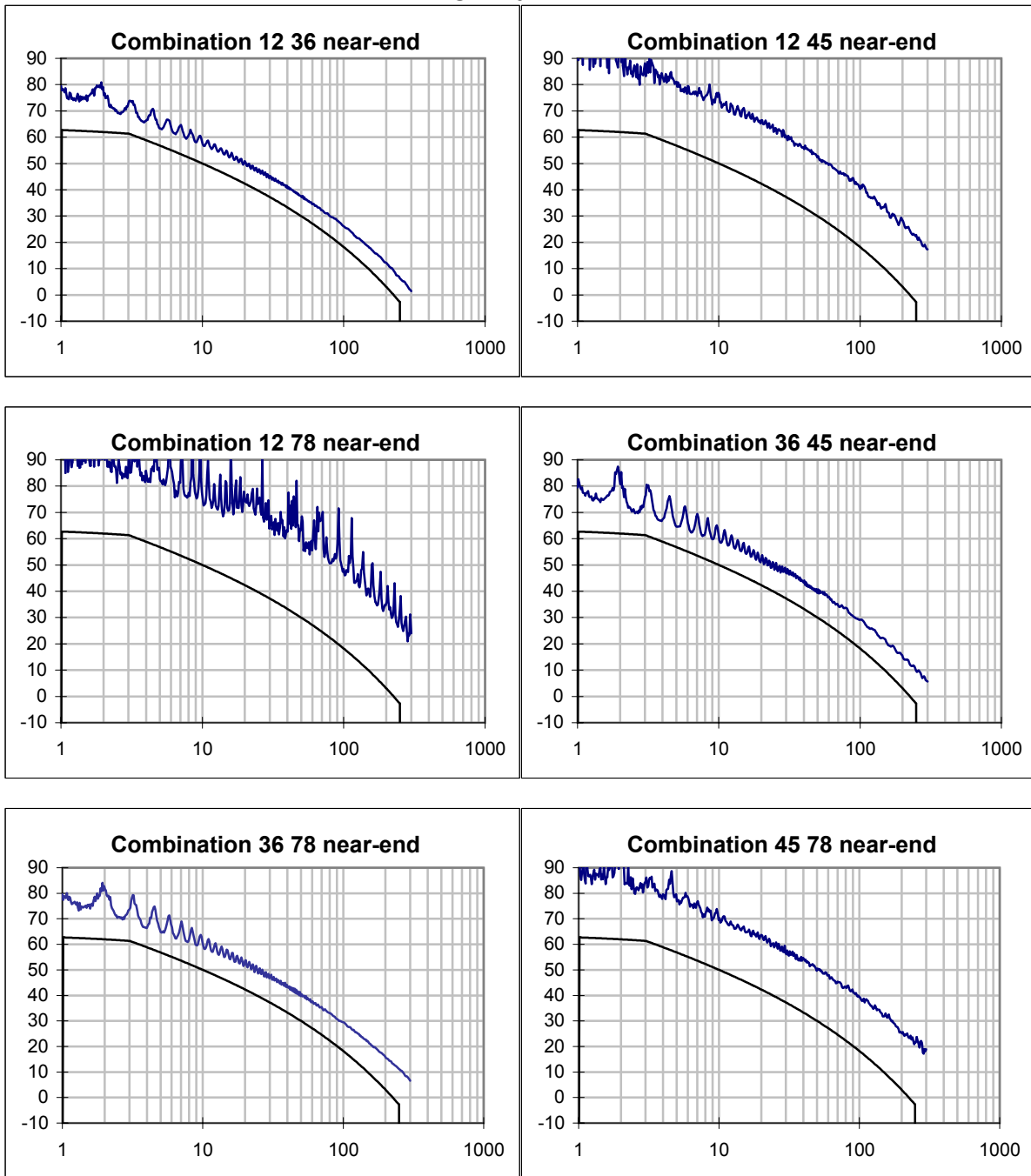
ELFEXT / dB

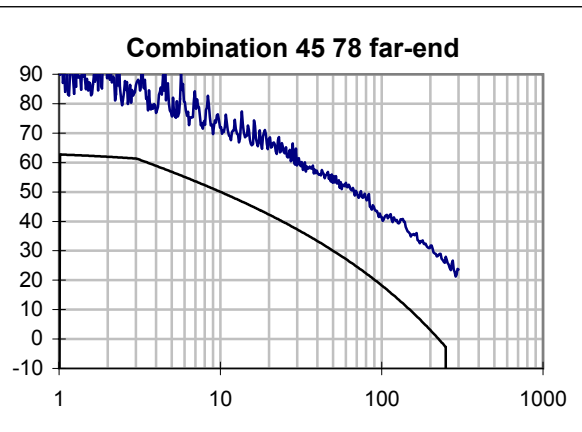
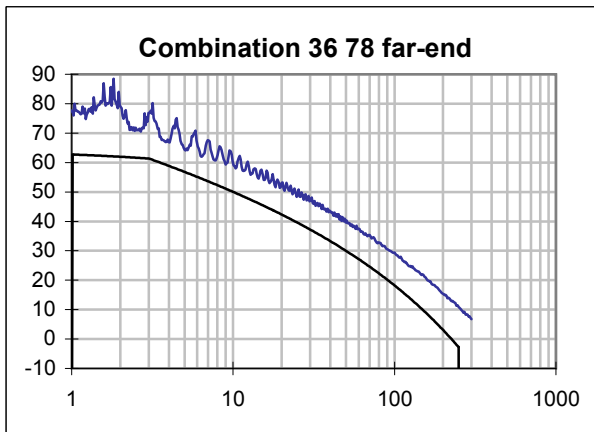
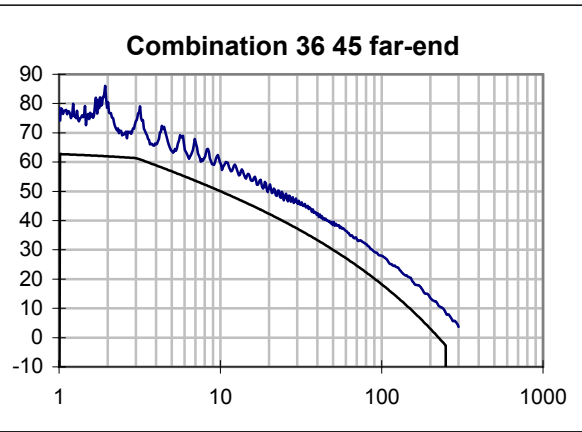
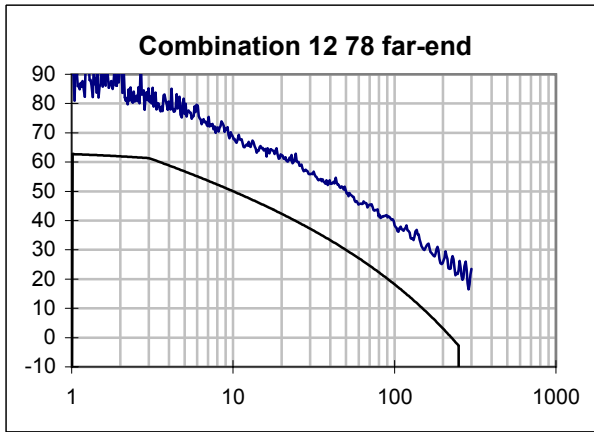
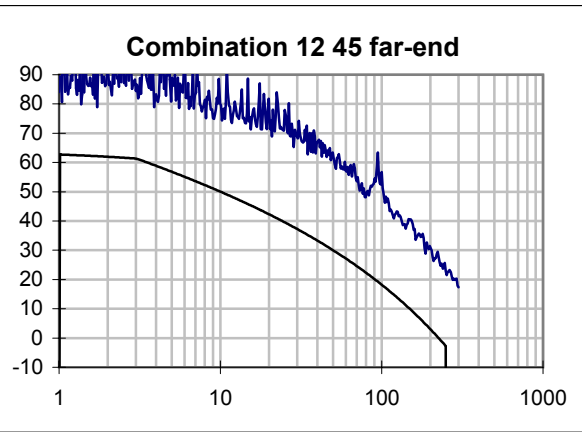
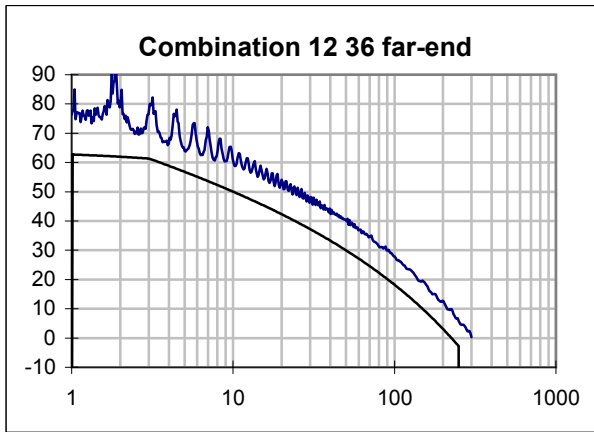




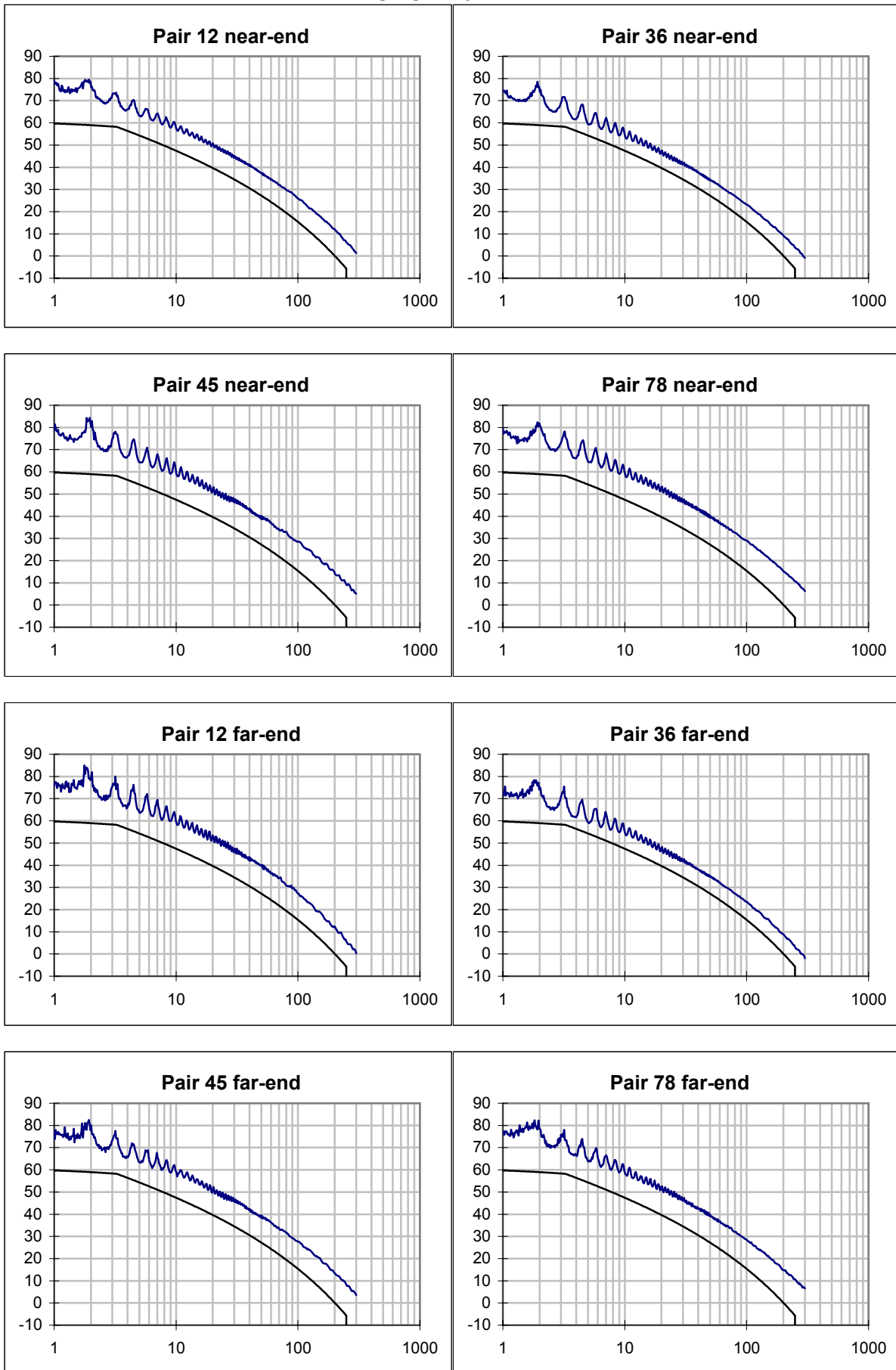
PSELFEXT / dB



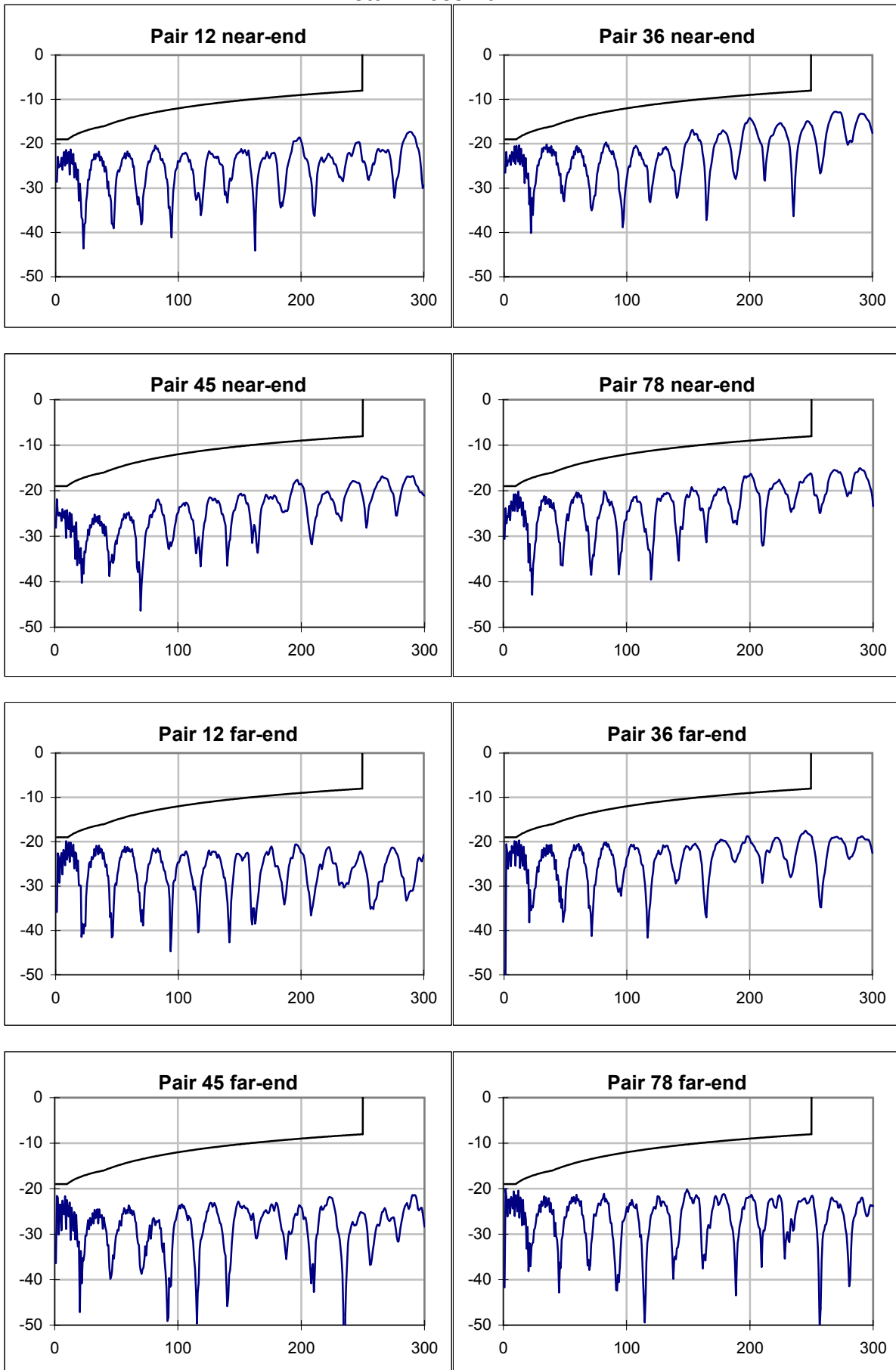




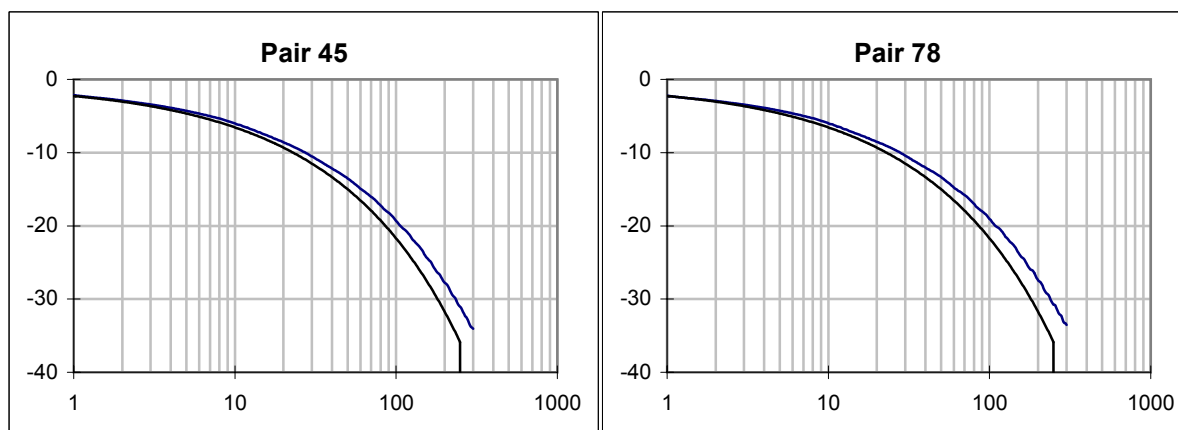
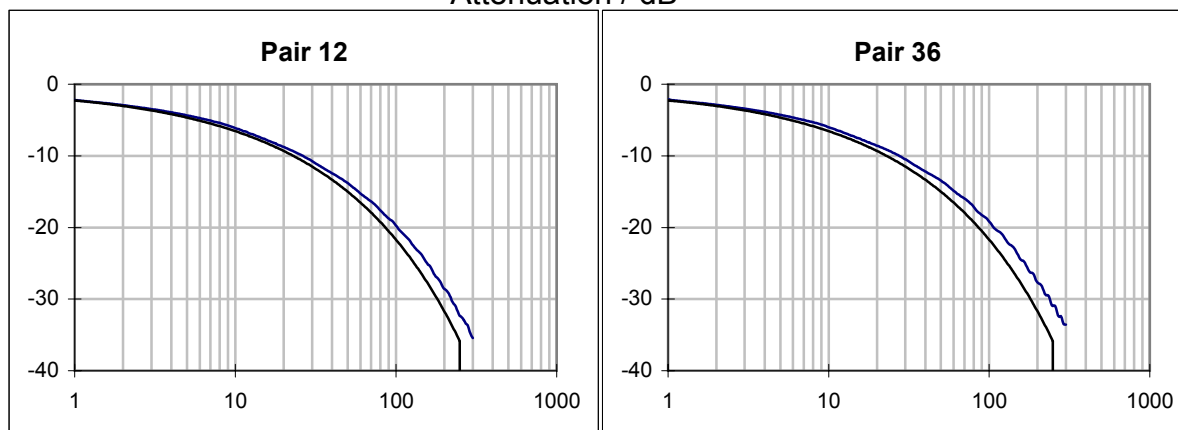
PSACR / dB



Return Loss / dB



Attenuation / dB



Delay / ns

