

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

Patch-Cable near-end: **5 m Panduit Giga Channel Patch Cord AWG24 (Panduit-Plug)**
 Outlet near-end: **Krone Highband Cat.6 unshielded modular**
 Installation Cable: **90 m UC400 24 4P**
 Outlet far-end: **Krone Highband Cat.6 unshielded modular**
 Patch-Cable far-end: **5 m Panduit Giga Channel Patch Cord AWG24 (Panduit-Plug)**
 Frequency rage: **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: 08.01.2002
 Tests by: Dr. C. Pfeiler
 Testlab: Draka Multimedia Cable
 Wohlaue Str. 15
 D-90475 Nürnberg

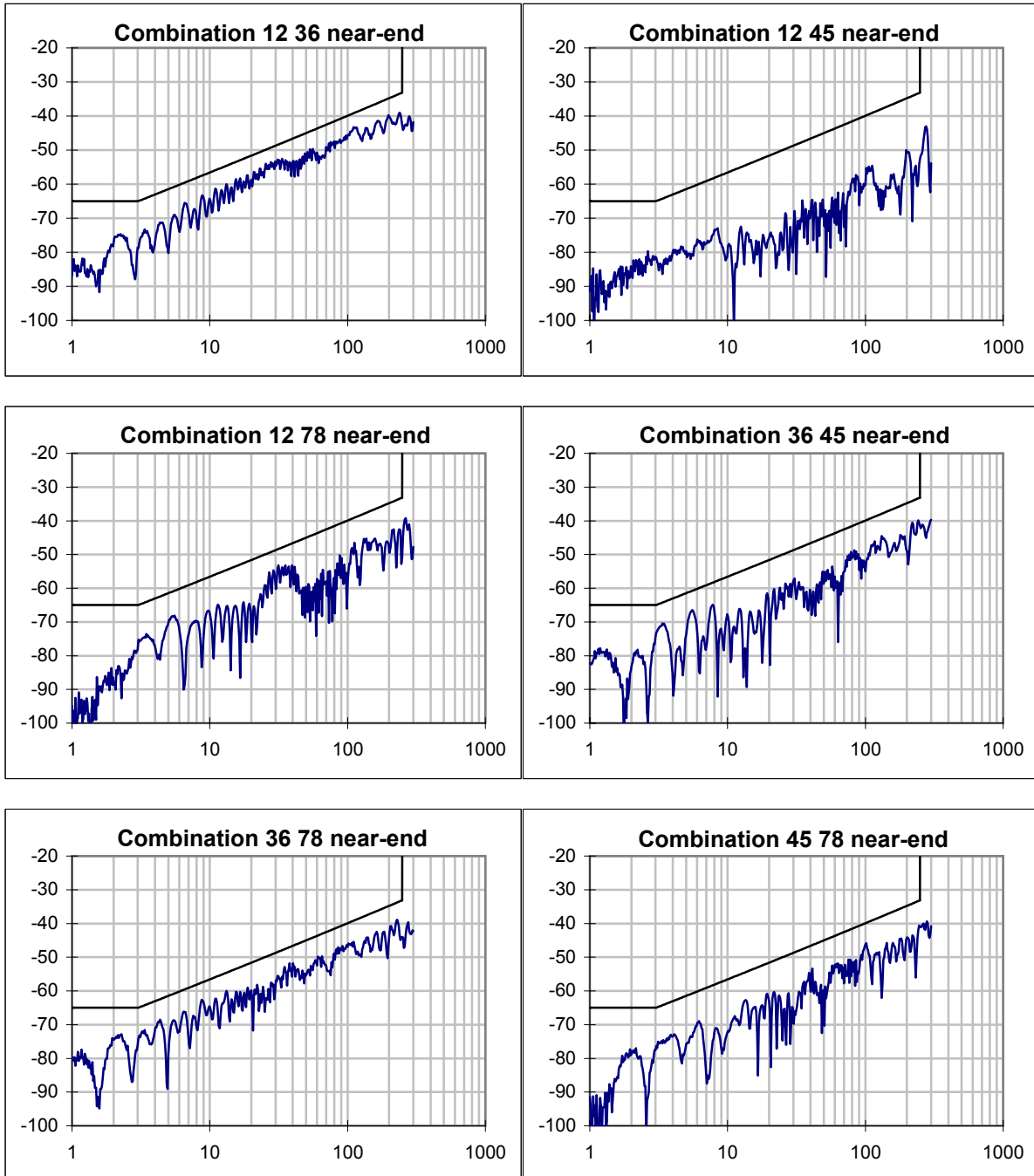
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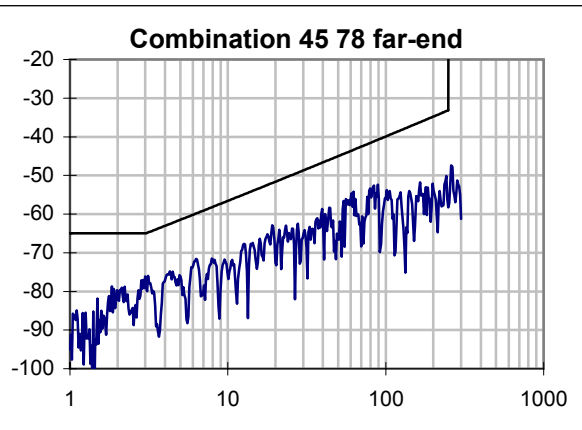
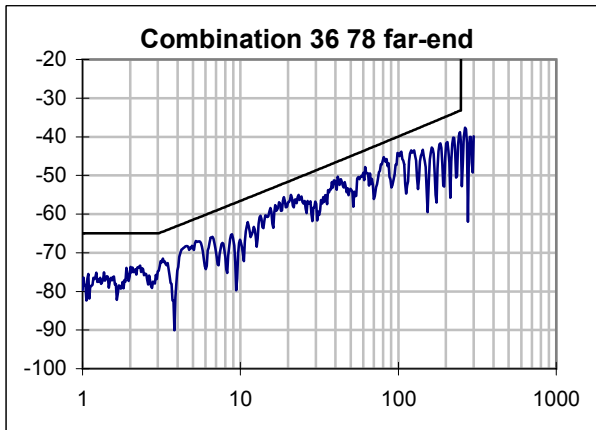
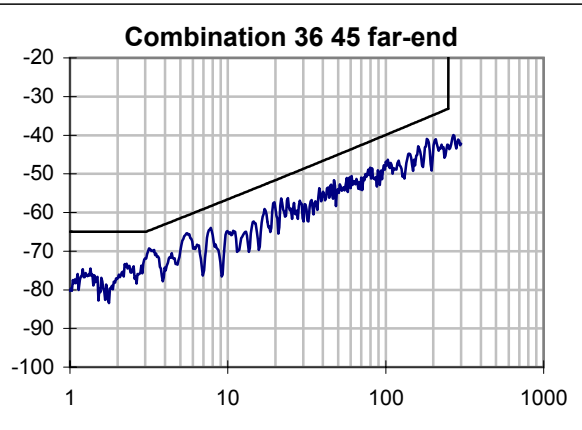
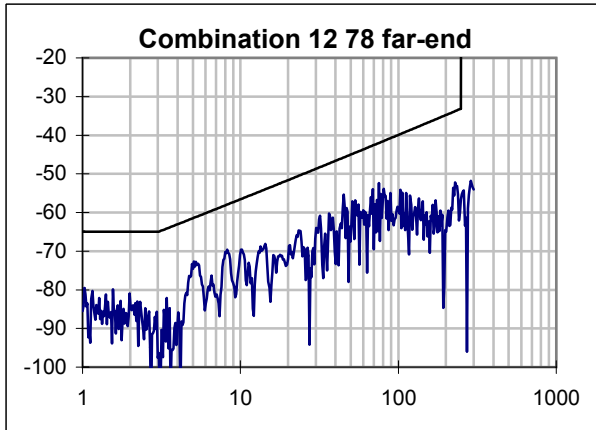
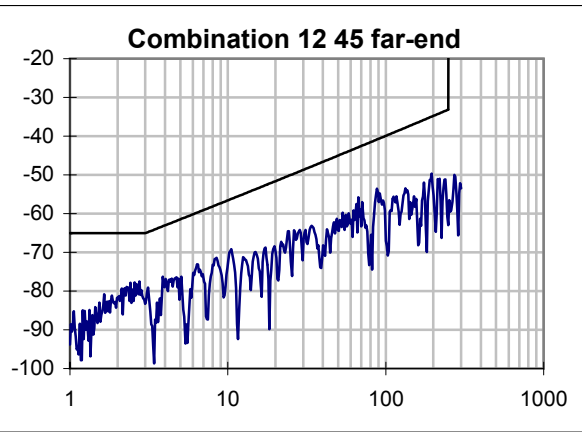
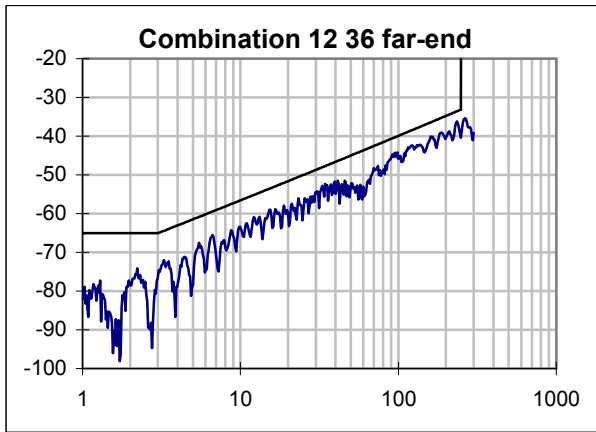
Summary:

Pair	12	36	45	78	Limit	skew/ns	Limit
max. delay / ns	523,6	494,9	501,3	517,6		30,9	50
Att. @ 100MHz/dB	19,97	19,46	19,37	19,60	21,7		
Att. @ 250MHz/dB	33,16	31,73	32,08	31,83	35,9		
min PSNEXT-Mar. / dB	4,59	3,33	6,48	4,88			
@ f / MHz	31,08	98,65	3,17	34,83			
PSNEXT Lim. / dB	45,75	37,18	62,00	44,91			
PSNEXT @ 100 MHz	43,93	40,51	47,77	43,76	37,1		
PSNEXT @ 250 MHz	40,31	36,52	42,38	40,97	30,2		
min PSELFEXT-Mar. / dB	9,04	7,69	7,10	7,81			
@ f / MHz	249,24	249,24	249,24	242,23			
PSELFEXT Lim. / dB	12,32	12,32	12,32	12,57			
PSELFEXT @ 100 MHz	50,04	42,16	42,68	45,97	20,3		
PSELFEXT @ 250 MHz	25,85	20,01	19,42	21,26	12,3		
min PSACR-Mar. / dB	5,4	4,0	7,0	6,0			
@ f / MHz	31,1	5,5	3,2	34,8			
PSACR Lim. / dB	34,0	53,5	58,2	32,5			
PSACR @ 100 MHz	23,96	20,82	28,28	24,28	15,4		
PSACR @ 250 MHz	7,14	4,15	10,63	9,18	-5,8		
min RL-Margin / dB	10,8	5,6	6,6	5,6			
@ f / MHz	237,2	245,4	57,8	234,2			
RL Limit / dB	8,2	8,1	14,4	8,3			

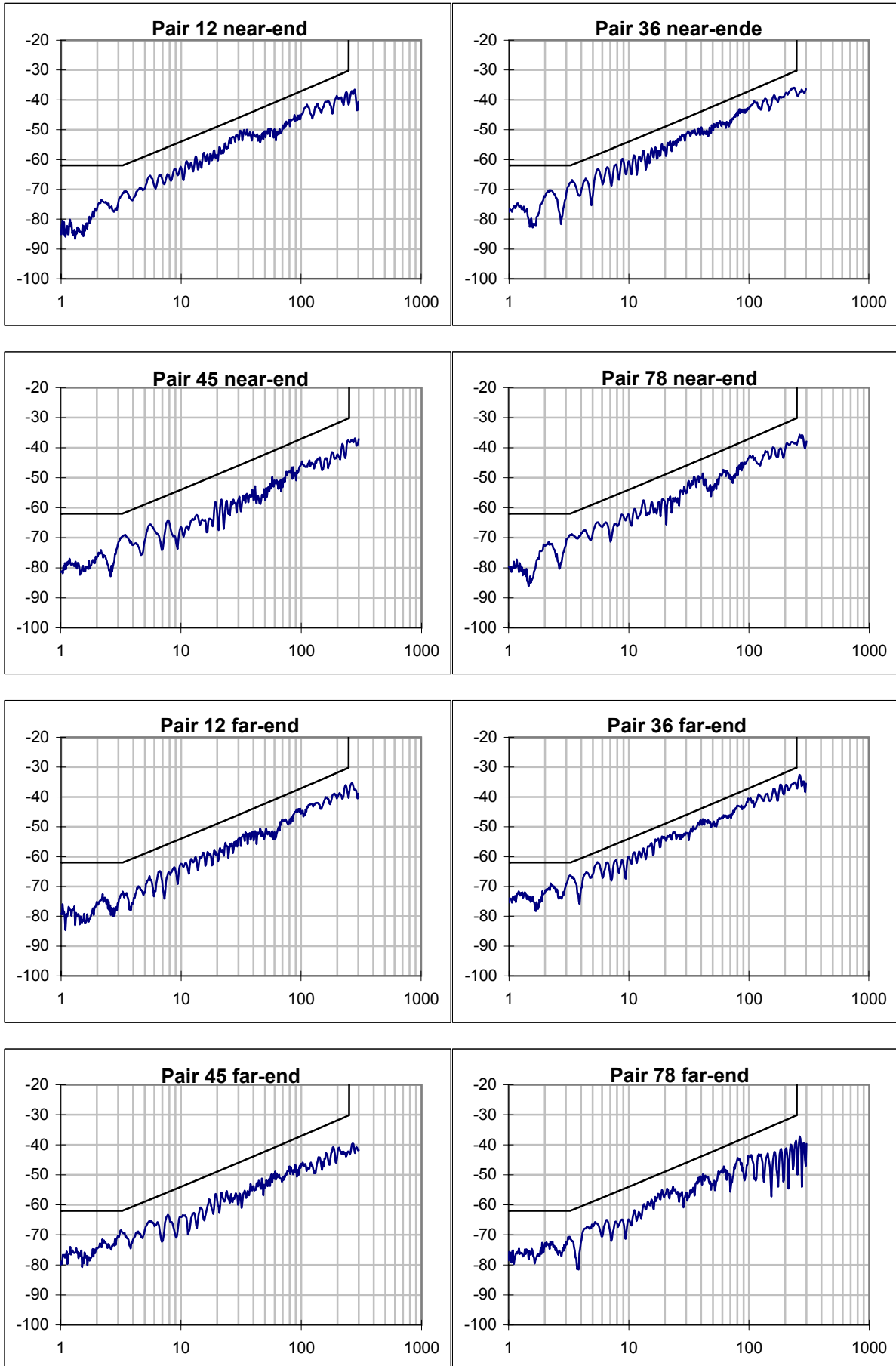
Pair Combination	12 36	12 45	12 78	36 45	36 78	45 78	Limit
min NEXT-Margin / dB	2,63	12,50	4,84	4,56	3,54	6,01	
@ f / MHz	235,42	2,75	31,53	5,46	18,87	101,50	
NEXT Limit / dB	33,56	65,00	48,35	60,86	52,05	39,82	
NEXT @ 100 MHz	44,22	59,17	58,49	48,88	44,19	55,91	39,9
NEXT @ 250 MHz	40,44	62,95	56,60	42,54	41,17	58,30	33,1
min ELFEXT-Mar. / dB	7,7	12,6	8,6	7,1	9,8	6,2	
@ f / MHz	249,2	204,1	192,8	249,2	249,2	245,7	
ELFEXT Lim. /dB	15,32	17,06	17,55	15,32	15,32	15,45	
ELFEXT @ 100 MHz	50,40	63,22	65,28	43,97	49,34	48,74	23,3
ELFEXT @ 250 MHz	29,01	28,77	47,85	22,47	25,16	23,54	15,3
min ACR-Margin / dB	4,9	12,9	5,7	5,1	4,5	8,3	
@ f / MHz	25,5	2,8	31,5	3,2	18,9	101,5	
ACR Limit / dB	39,3	61,5	36,6	60,9	43,0	17,9	
ACR @ 100 MHz	24,25	39,20	38,51	29,42	24,73	36,54	18,2
ACR @ 250 MHz	7,27	29,79	23,44	10,80	9,44	26,22	-2,8

NEXT / dB

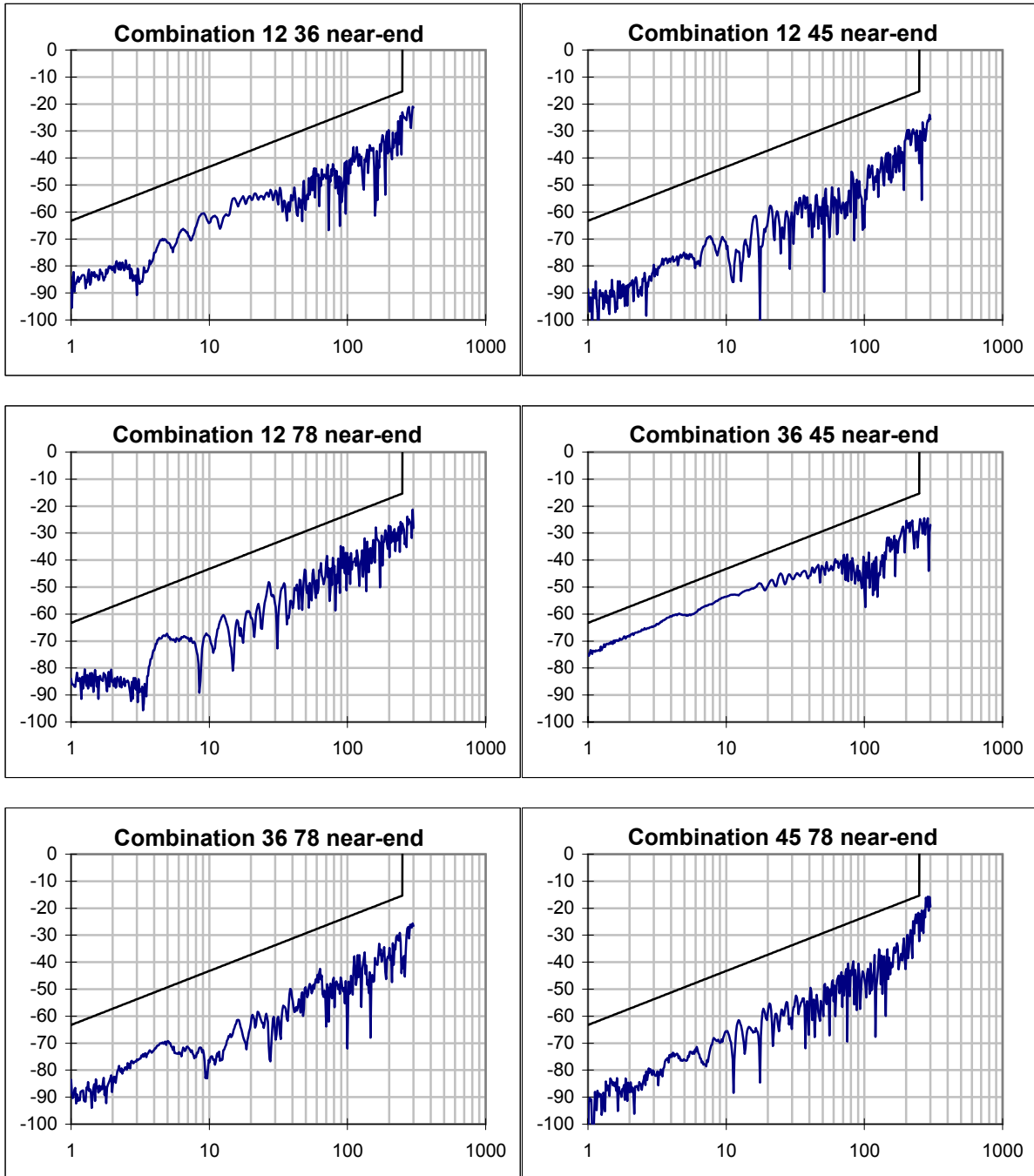


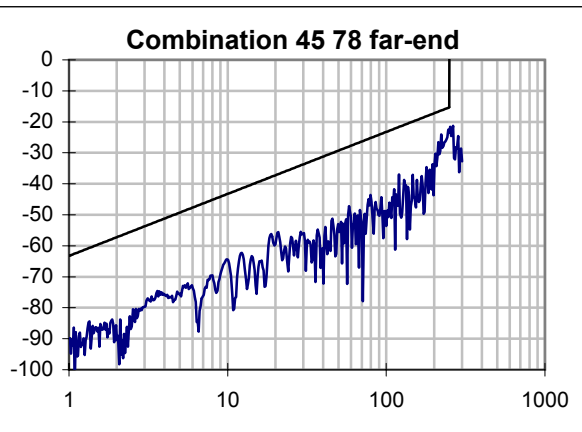
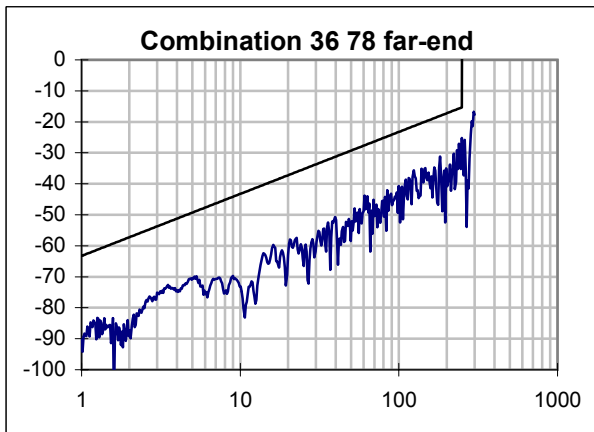
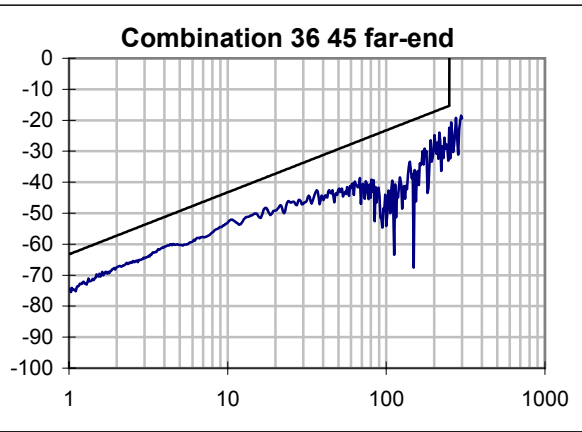
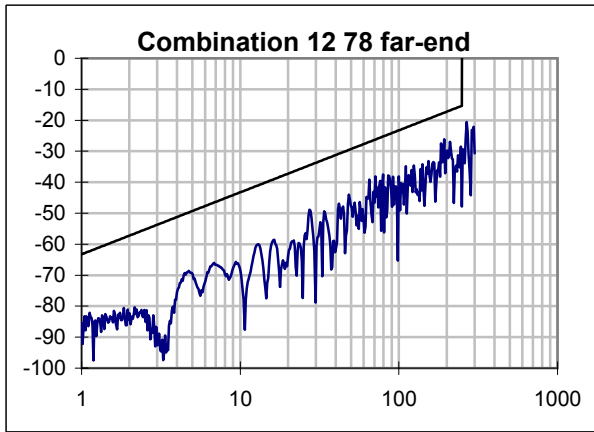
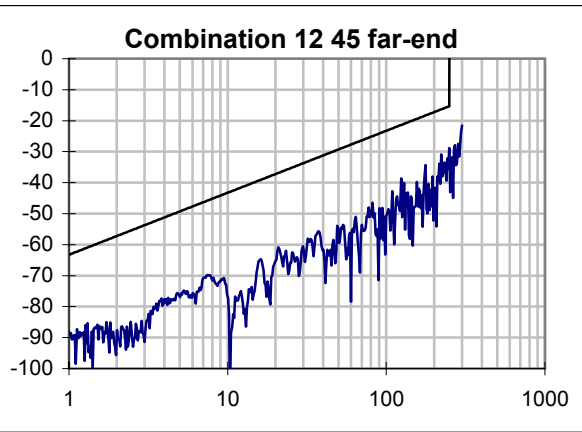
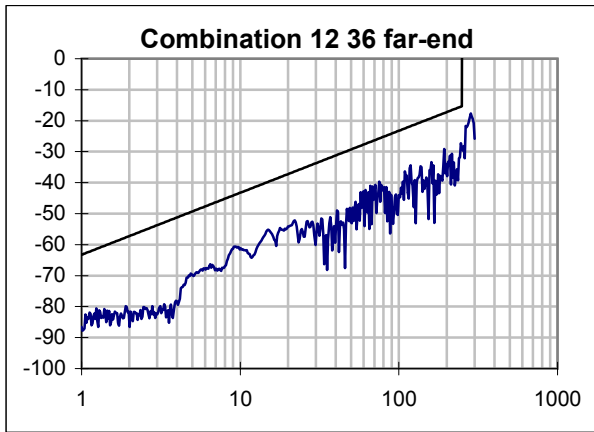


PSNEXT / dB

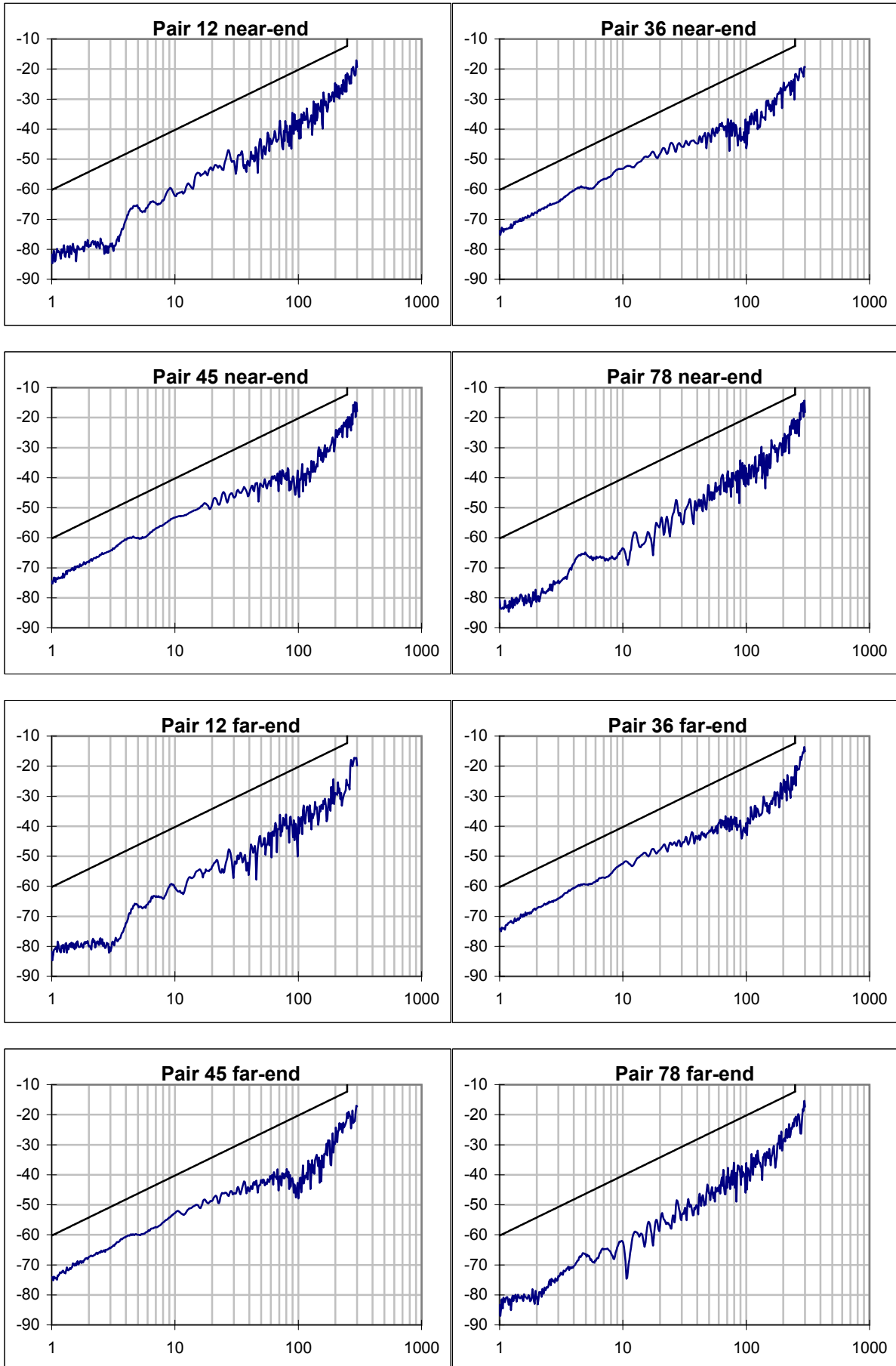


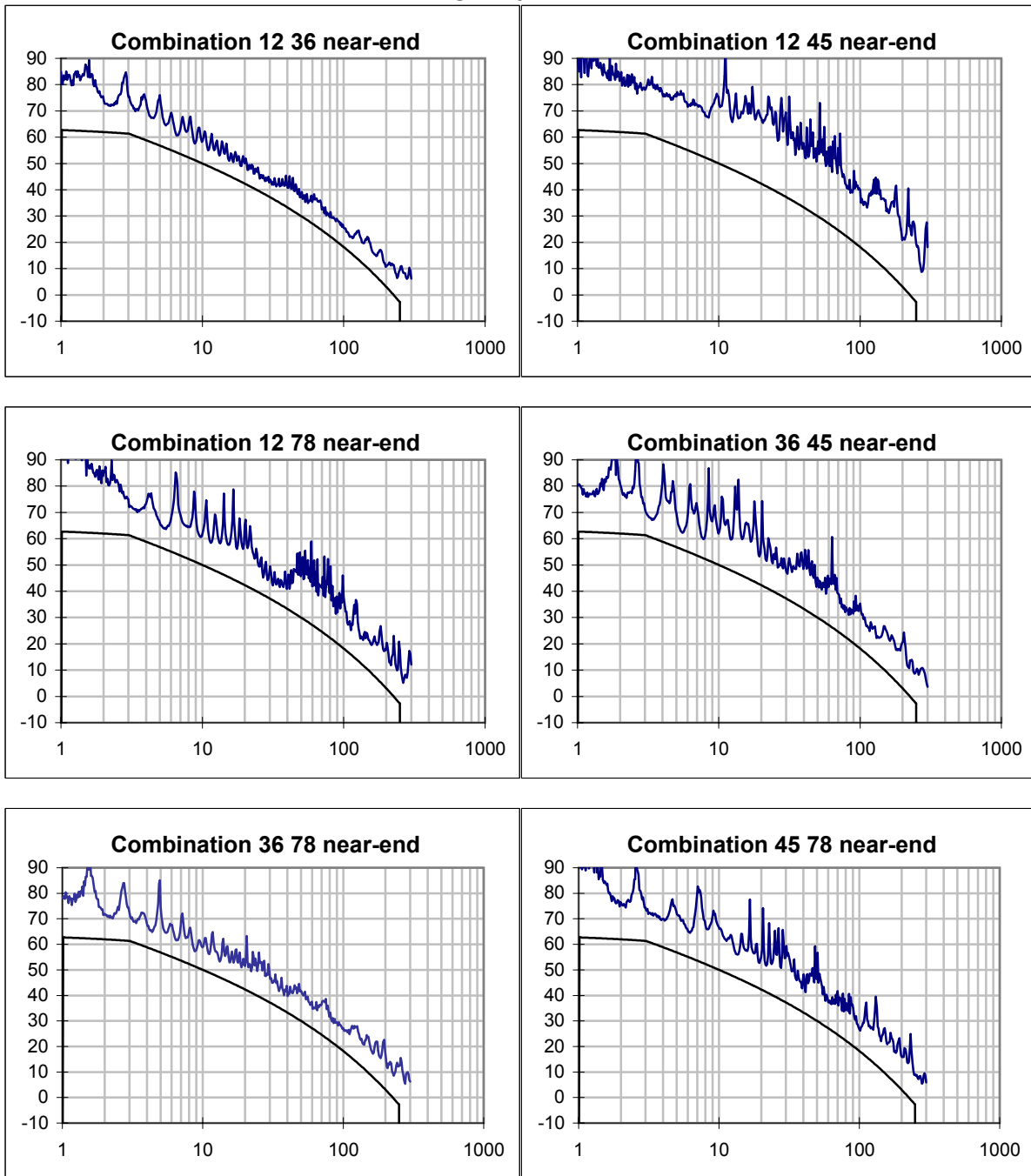
ELFEXT / dB

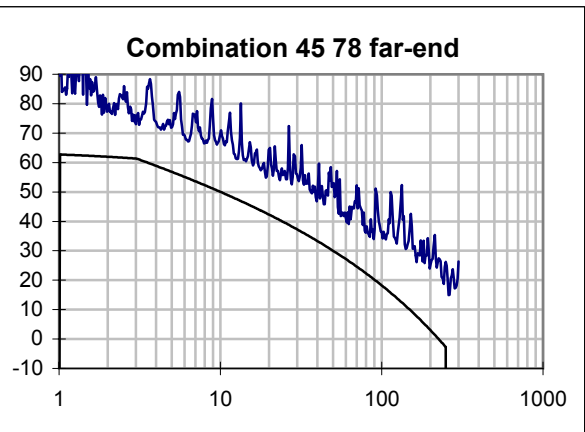
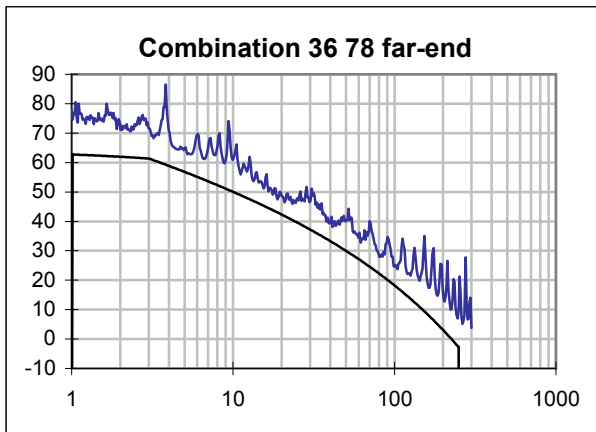
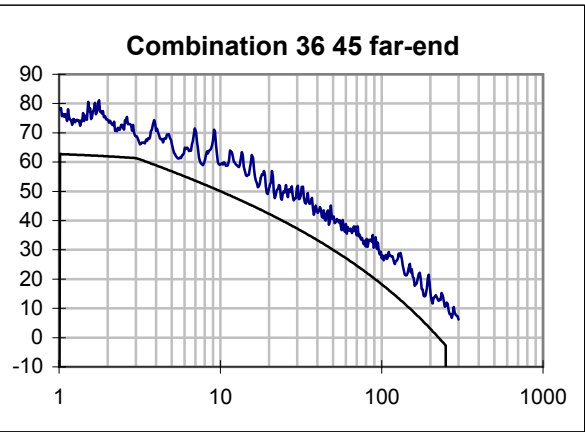
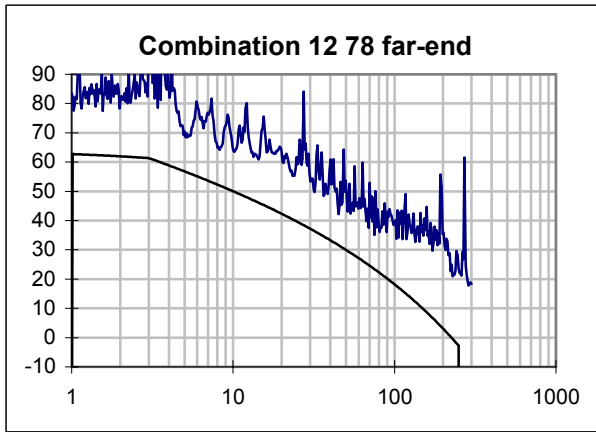
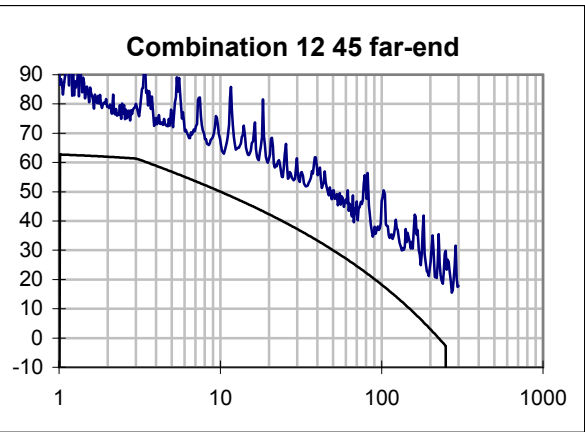
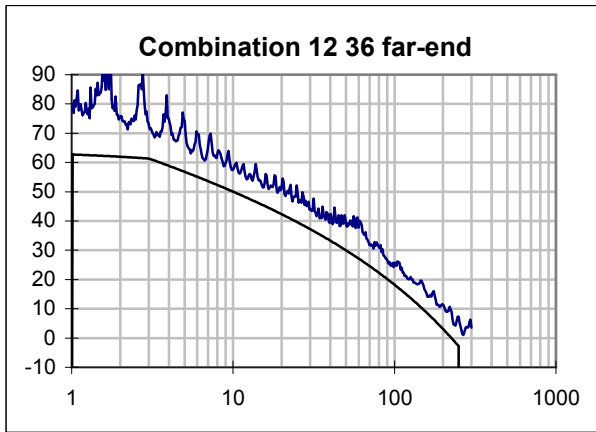




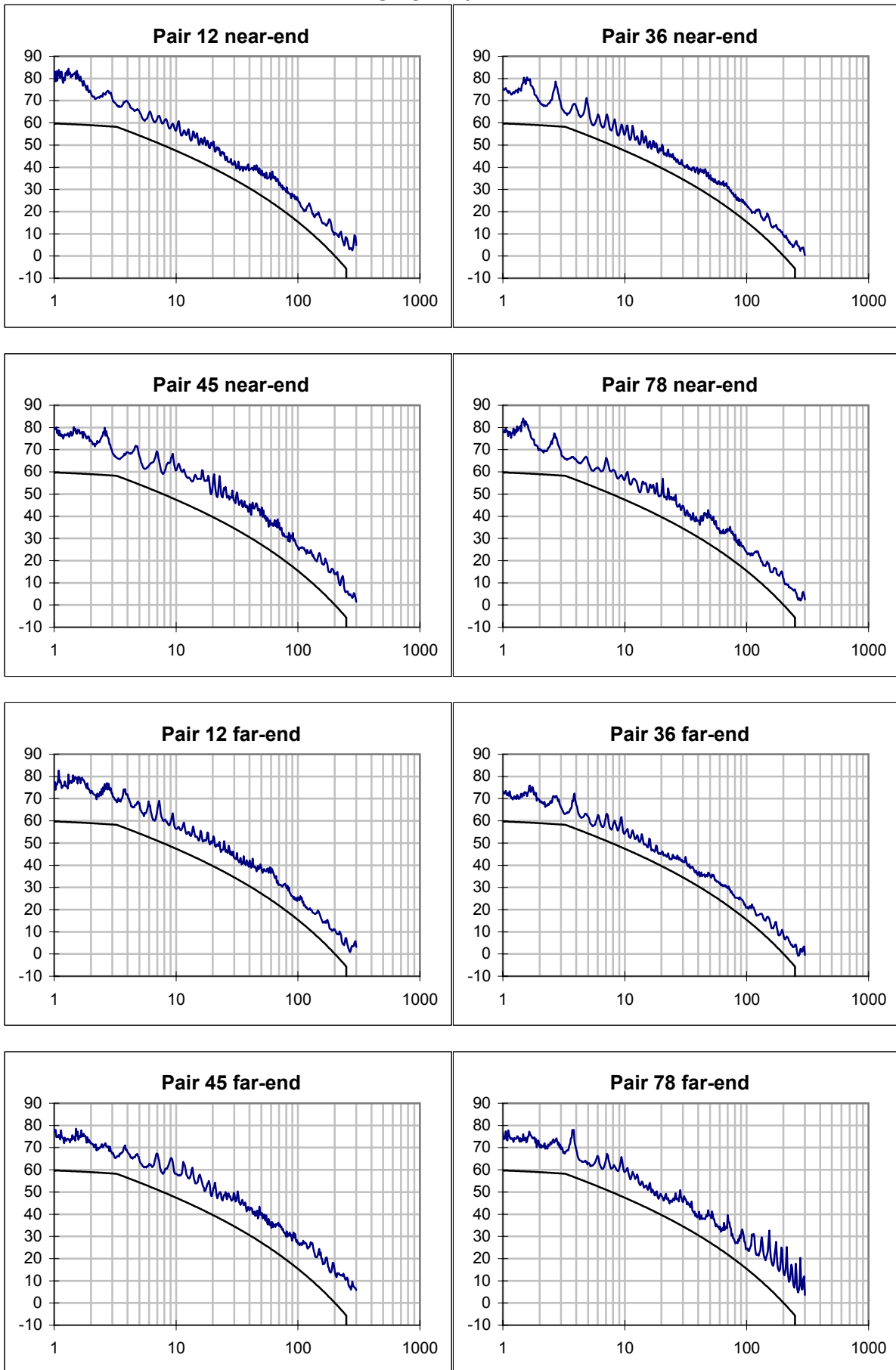
PSELFEXT / dB



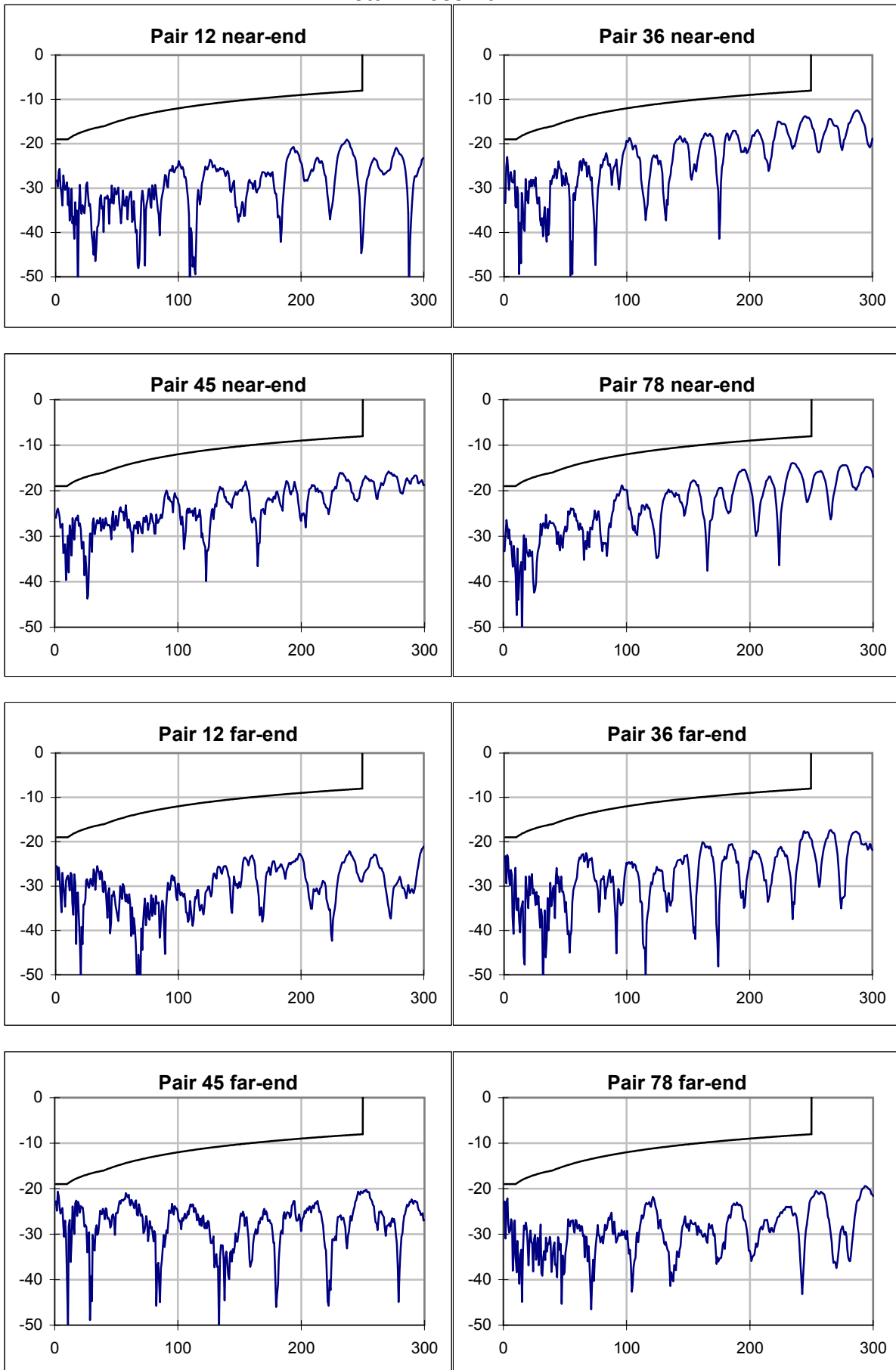




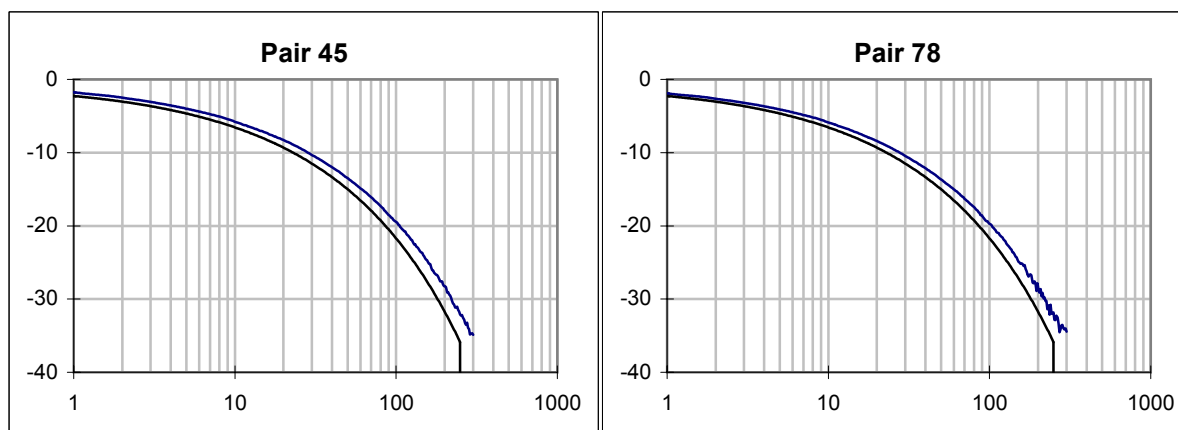
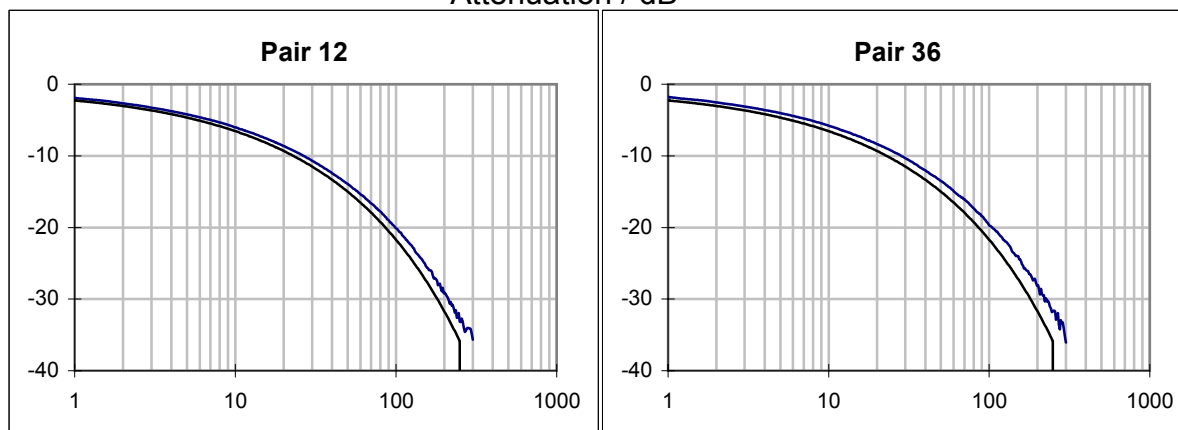
PSACR / dB



Return Loss / dB



Attenuation / dB



Delay / ns

