



Channel-Messung

Draka Multimedia Cable

Aufbau:

Patch-Kabel A-Ende: **5 m Shielded Giga Channel Patch Cord AWG28 (Panduit-Stecker)**
 Komponente A-Ende: **Panduit CJS688T3**
 Tertiärkabel: **90 m UC600 SS23/1 4P**
 Komponente E-Ende: **Panduit CJS688T3**
 Patch-Kabel E-Ende: **5 m Shielded Giga Channel Patch Cord AWG28 (Panduit-Stecker)**
 Frequenz: **1-300 MHz (401 Messpunkte)**
 Messgeräte: **HP8753, KRMZ 1200**
 Bewertung gegen Class: **E**

Resultat: *Der Channel entspricht Class E nach ISO/IEC JTC 1/SC 25/WG 3 N739.
 Das ACR wird bis 300 MHz nicht negativ!*

Ankerfrequenzen / MHz: 100
 250

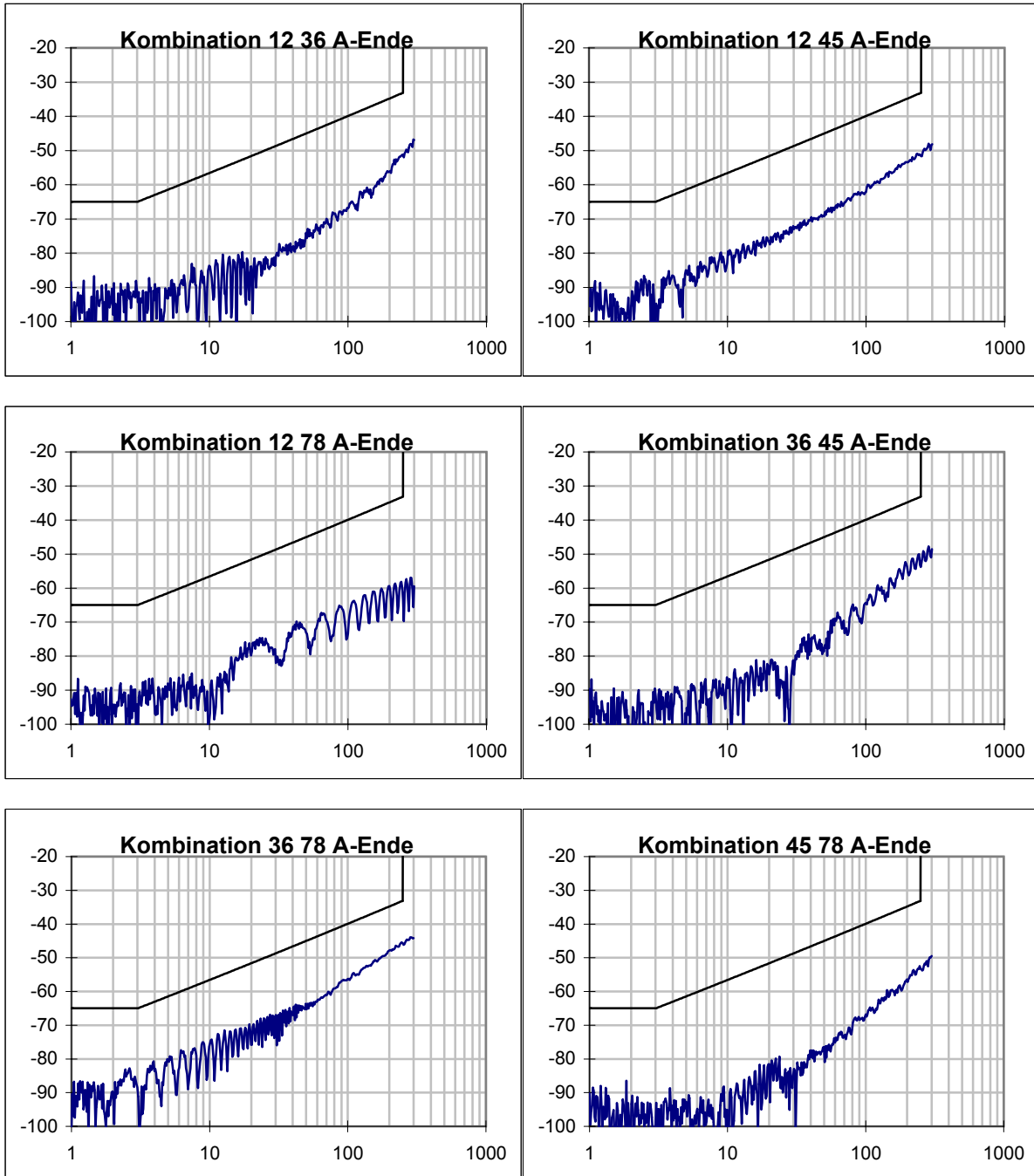
Datum: 19.02.2002
 Prüfer: Dr. C. Pfeiler
 Prüflabor: Draka Multimedia Cable
 Wohlaue Str. 15
 90475 Nürnberg

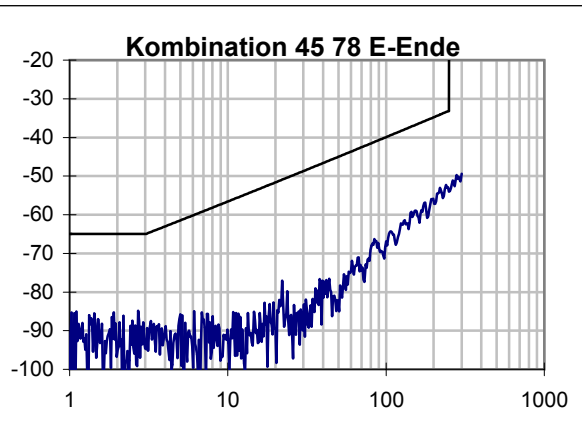
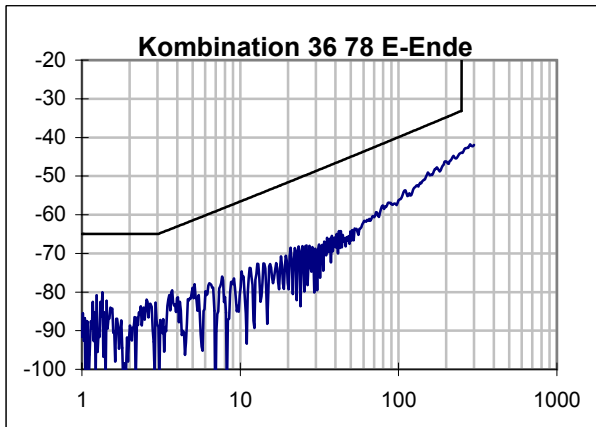
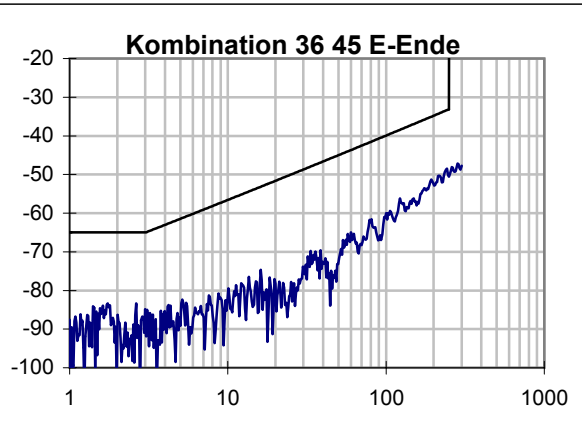
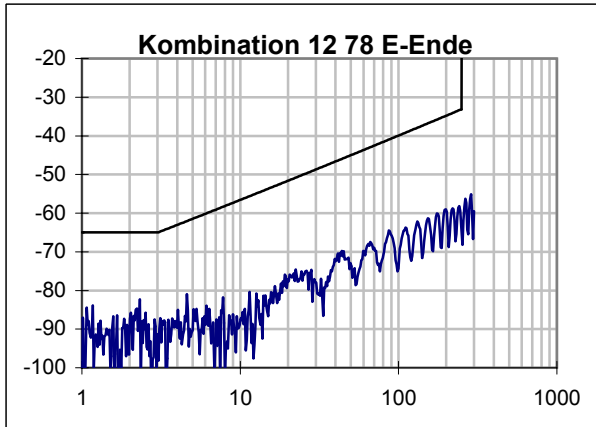
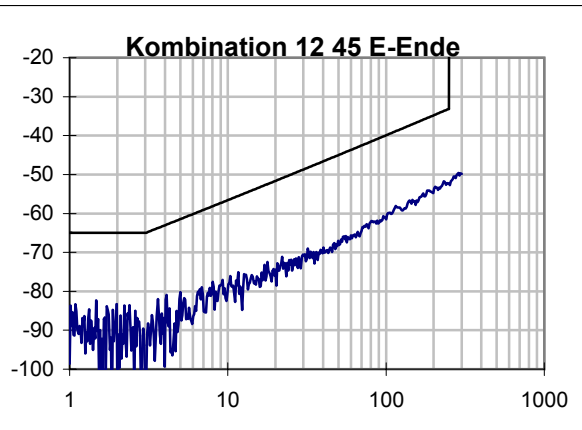
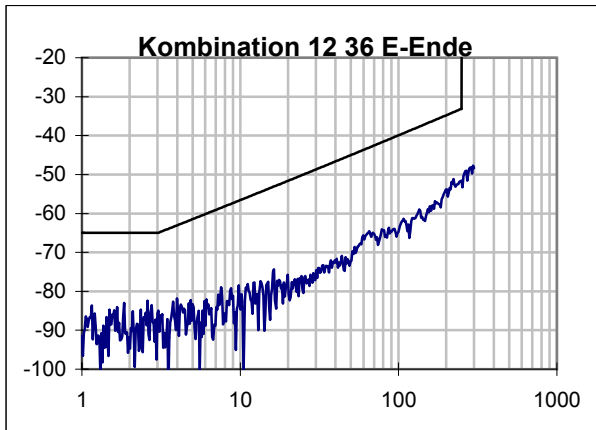
gepr.

Übersicht Ergebnis:

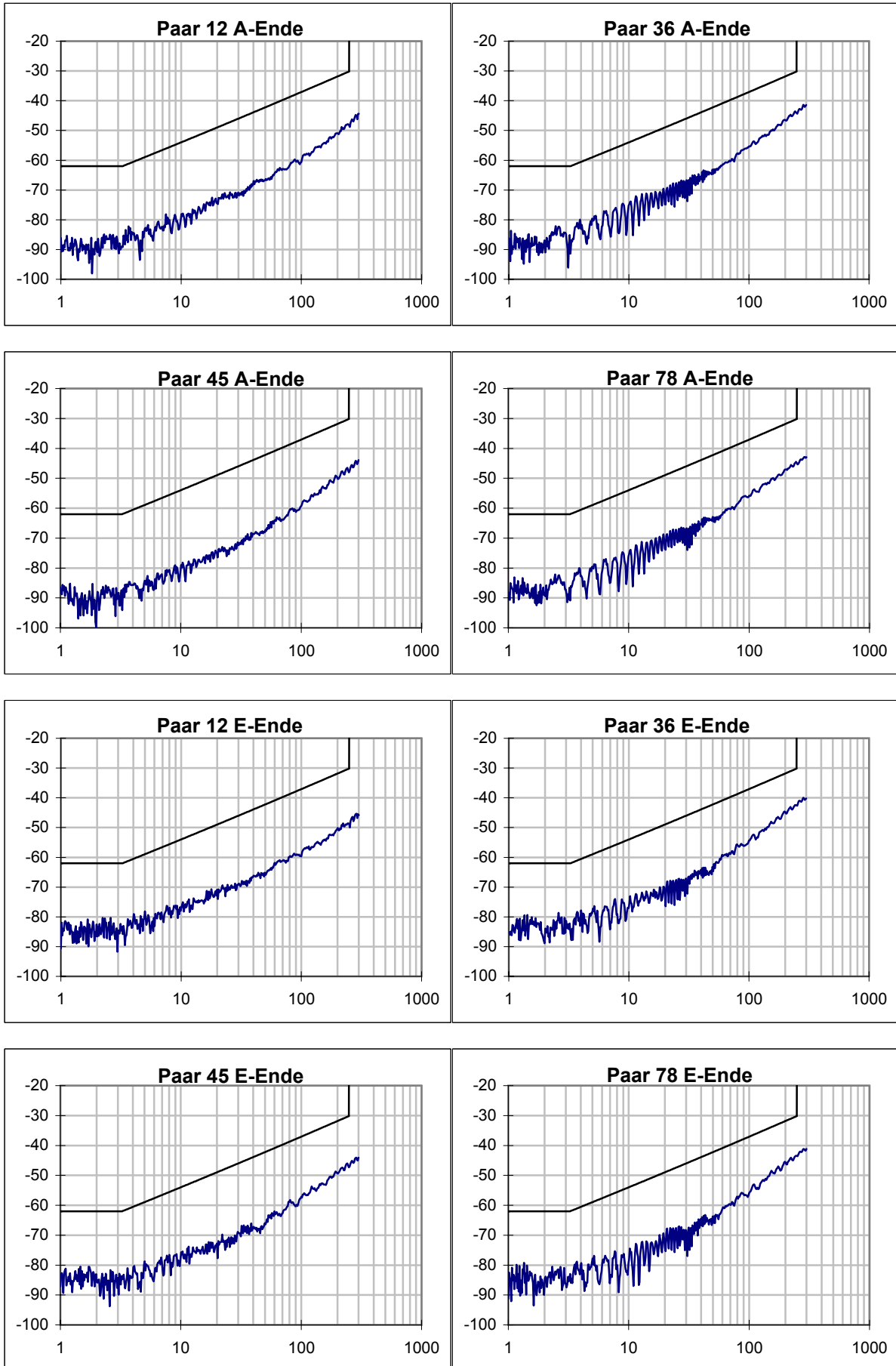
Paar	12	36	45	78	Grenzwert	skew/ns	Grenzw.
max. Laufzeit / ns	446,7	435,5	433,4	440,1		14,2	50
Dämpfung @ 100MHz/dB	20,22	19,71	19,77	19,94	21,7		
Dämpfung @ 250MHz/dB	32,56	31,89	32,08	32,06	35,9		
min PSNEXT-Res. / dB	17,49	11,99	15,56	13,06			
@ f / MHz	242,23	242,23	238,80	222,37			
PSNEXT Gr. / dB	30,39	30,39	30,50	31,05			
PSNEXT @ 100 MHz	59,51	55,15	57,76	56,65	37,1		
PSNEXT @ 250 MHz	48,79	42,50	47,31	43,50	30,2		
min PSELFEXT-Res. / dB	17,27	15,87	18,25	20,30			
@ f / MHz	1,00	1,07	1,45	1,04			
PSELFEXT Gr. / dB	60,26	59,64	57,04	59,89			
PSELFEXT @ 100 MHz	40,35	38,80	43,01	54,08	20,3		
PSELFEXT @ 250 MHz	41,77	37,88	40,10	41,02	12,3		
min PSACR-Reserve / dB	18,5	15,8	18,7	16,9			
@ f / MHz	2,2	222,4	1,7	222,4			
PSACR Grenz. / dB	58,8	-2,6	59,2	-2,6			
PSACR @ 100 MHz	39,29	35,39	37,80	36,93	15,4		
PSACR @ 250 MHz	16,23	10,53	15,16	11,59	-5,8		
min RL-Reserve / dB	15,0	4,7	9,7	10,6			
@ f / MHz	212,5	145,3	249,9	143,8			
RL Grenzwert / dB	8,7	10,4	8,0	10,4			
Kombination	12 36	12 45	12 78	36 45	36 78	45 78	Grenzwert
min NEXT-Reserve / dB	17,19	17,35	17,36	15,17	10,77	18,85	
@ f / MHz	222,37	1,47	2,32	242,23	222,37	238,80	
NEXT Grenzw. /dB	33,99	65,00	65,00	33,35	33,99	33,46	
NEXT @ 100 MHz	65,04	61,11	75,10	61,22	57,02	68,36	39,9
NEXT @ 250 MHz	51,55	52,32	64,57	50,56	43,93	54,07	33,1
min ELFEXT-Res. / dB	14,7	21,3	23,6	16,3	18,2	23,9	
@ f / MHz	1,0	2,0	1,1	1,4	1,0	1,0	
ELFEXT Grw. /dB	63,26	57,06	62,64	60,04	62,89	63,26	
ELFEXT @ 100 MHz	40,66	52,15	66,59	43,66	55,48	60,67	23,3
ELFEXT @ 250 MHz	45,40	44,78	53,57	42,08	41,42	56,13	15,3
min ACR-Reserve/ dB	17,5	17,5	17,5	18,6	14,7	20,1	
@ f / MHz	2,6	1,5	2,3	2,6	222,4	2,7	
ACR Grenzw. /dB	61,6	62,3	61,8	61,6	0,3	61,5	
ACR @ 100 MHz	44,82	40,89	54,88	41,51	37,31	48,58	18,2
ACR @ 250 MHz	18,99	19,76	32,01	18,67	12,05	21,99	-2,8

NEXT / dB

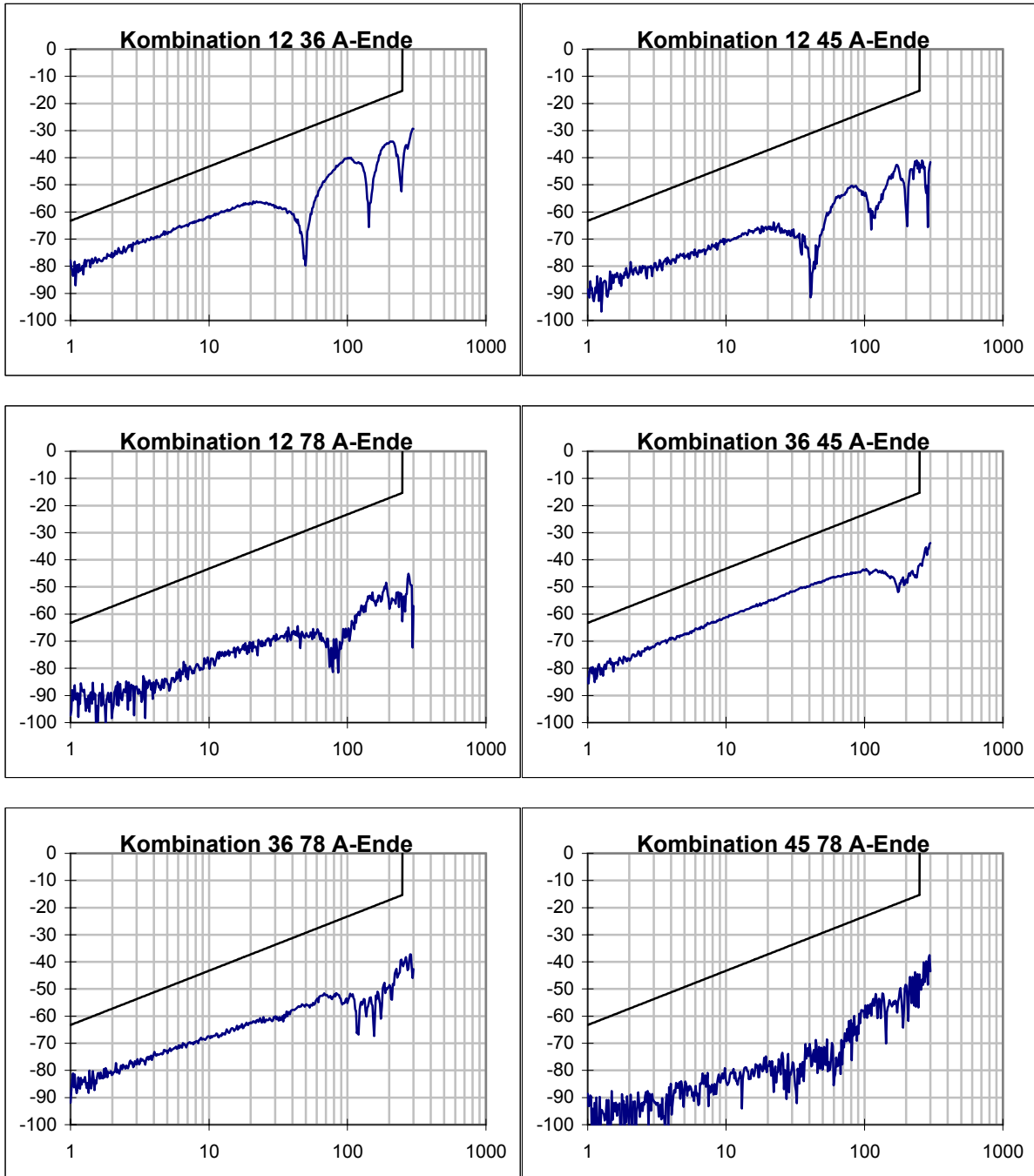


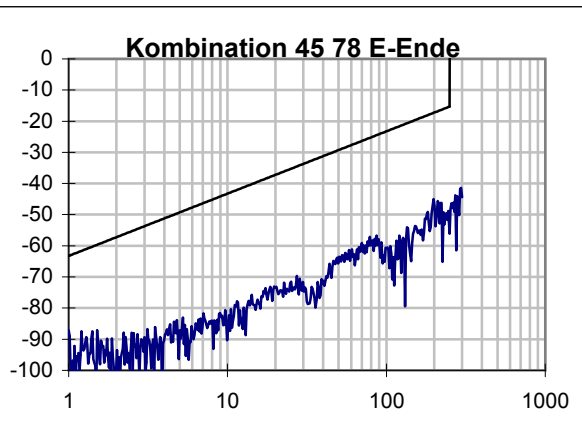
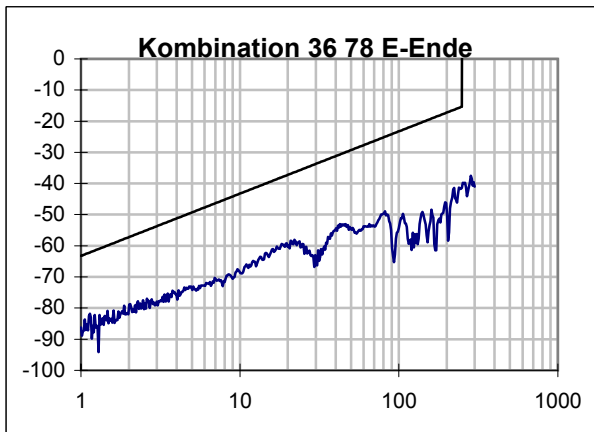
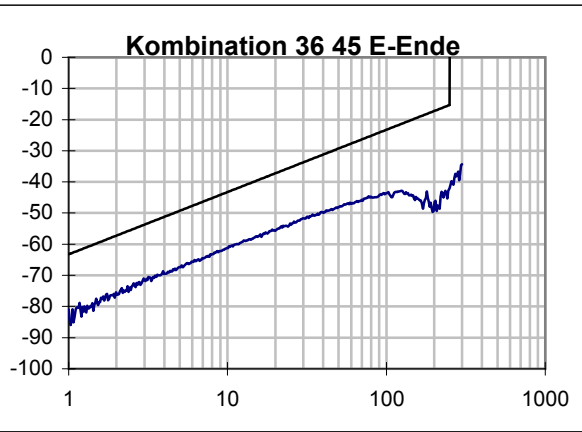
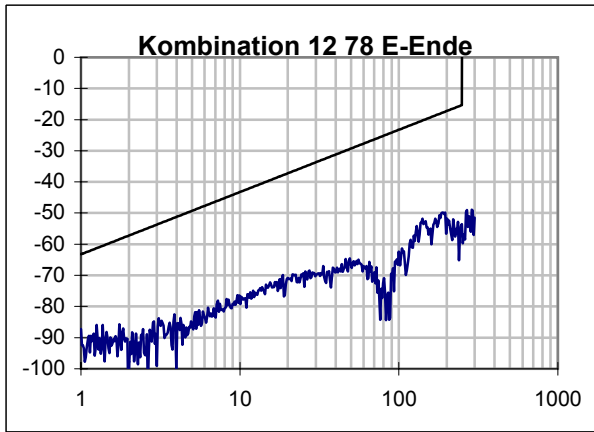
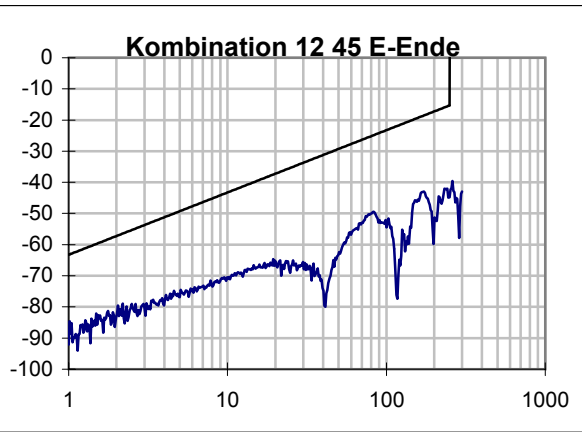
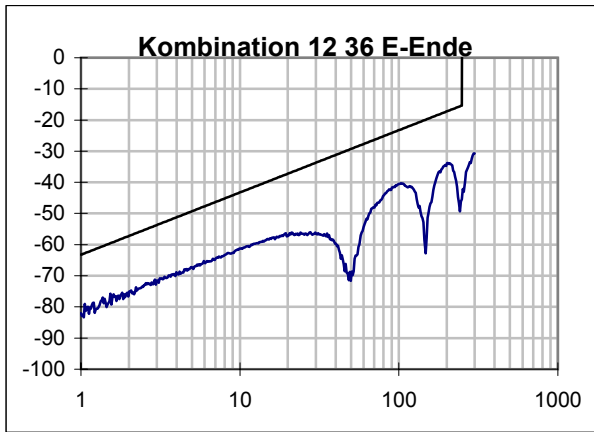


PSNEXT / dB

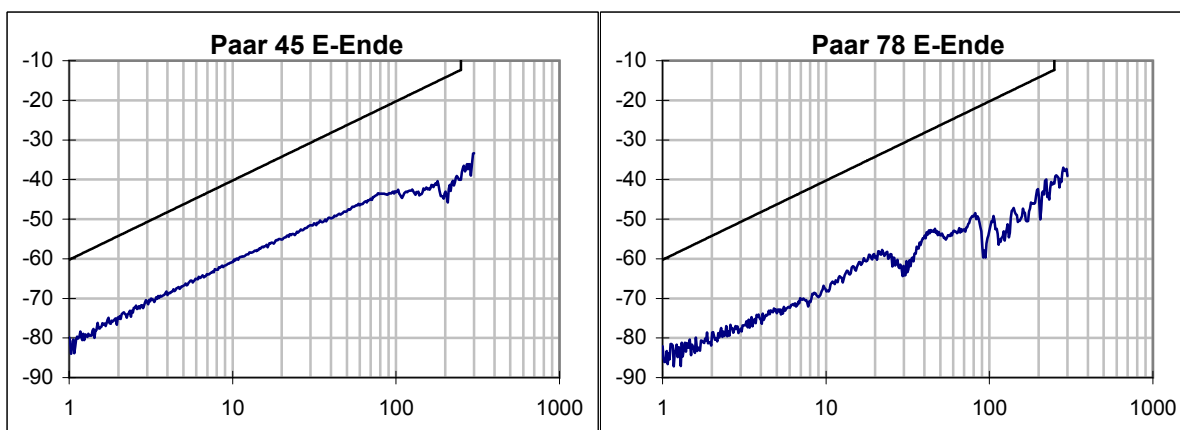
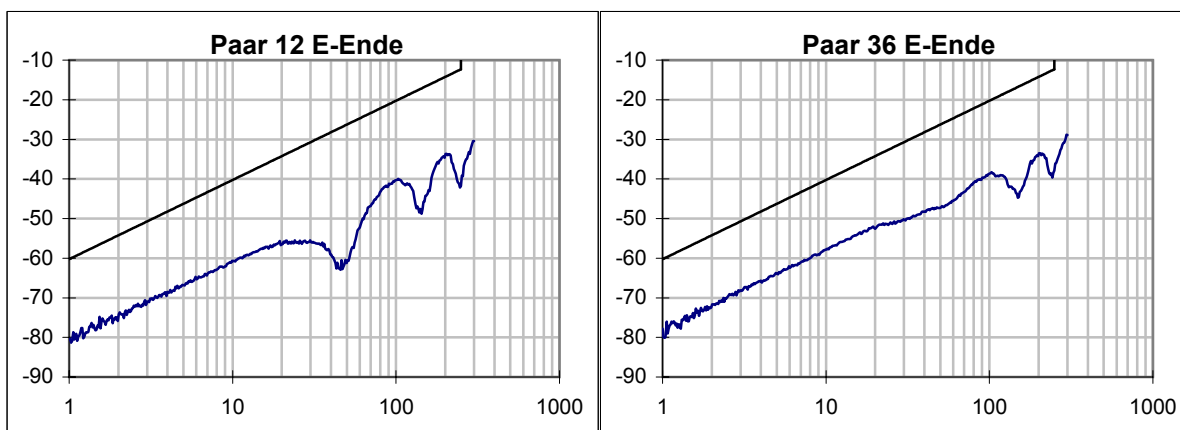
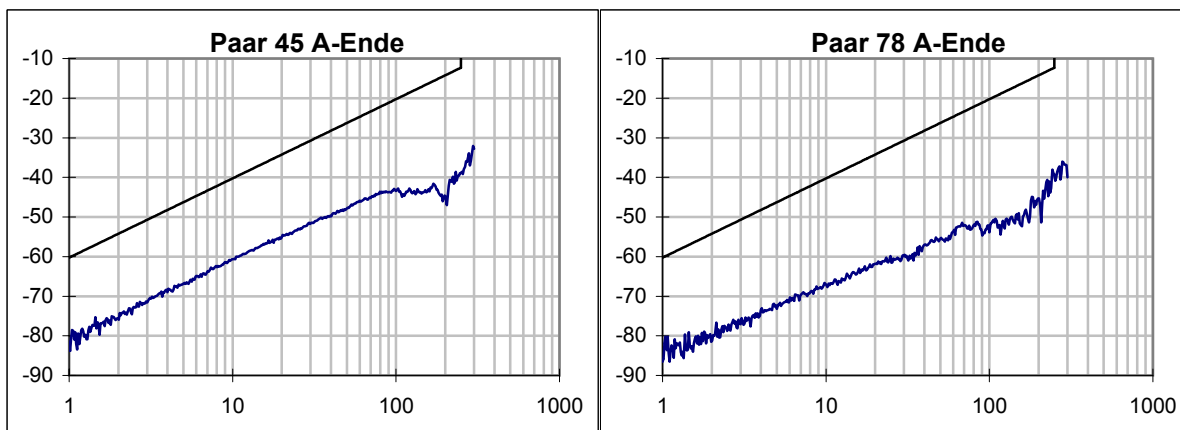
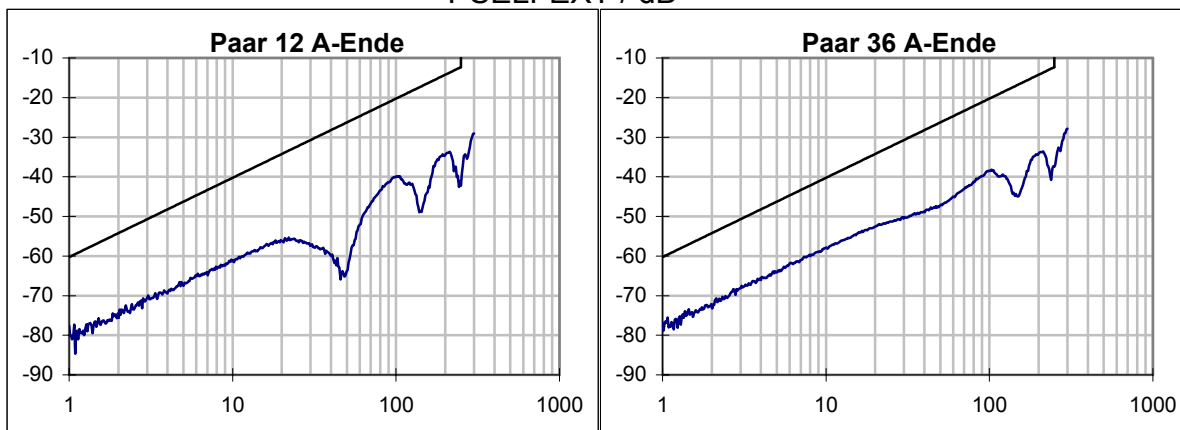


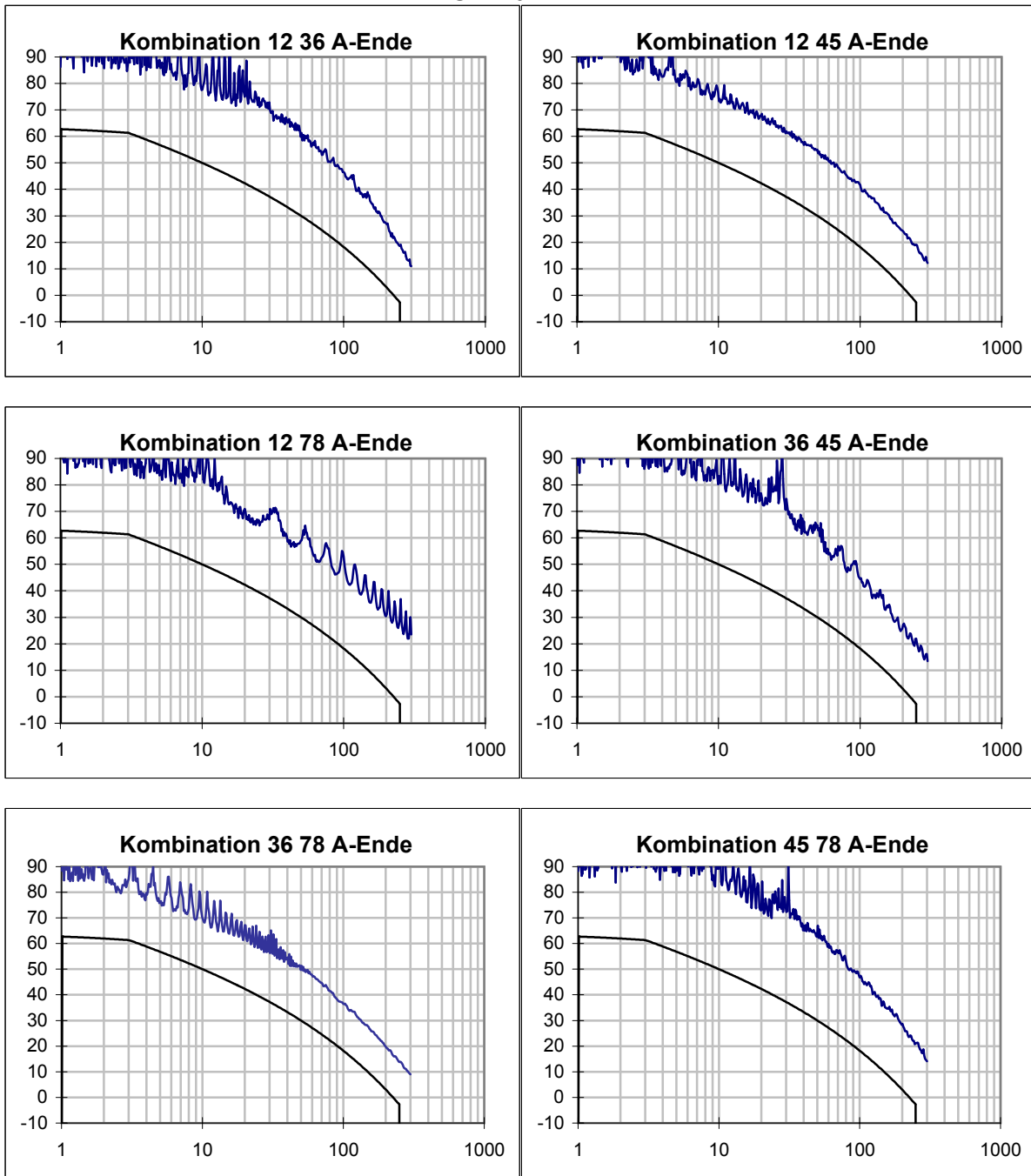
ELFEXT / dB

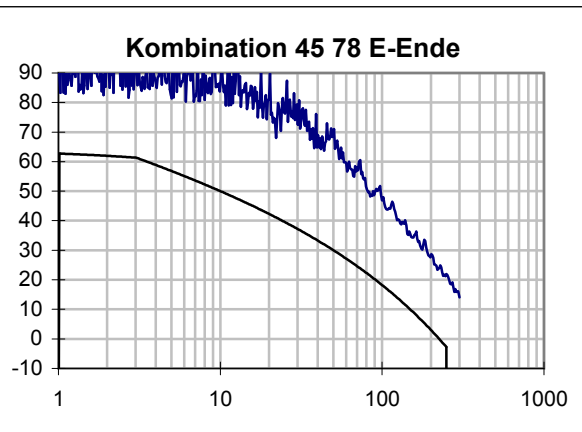
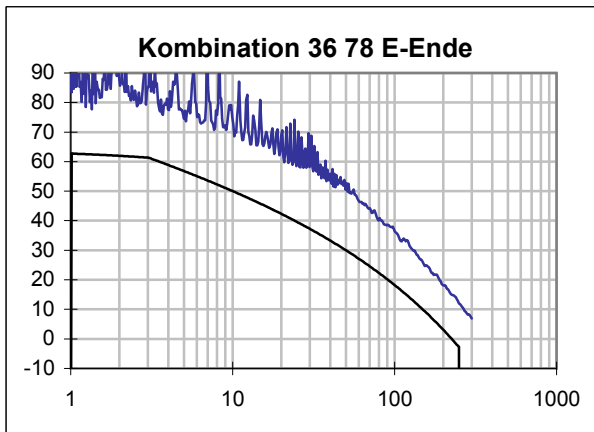
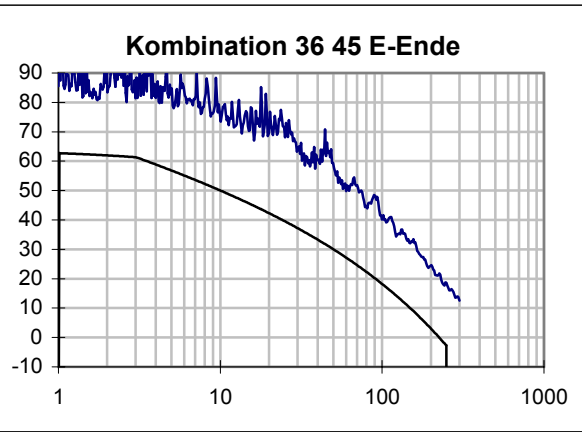
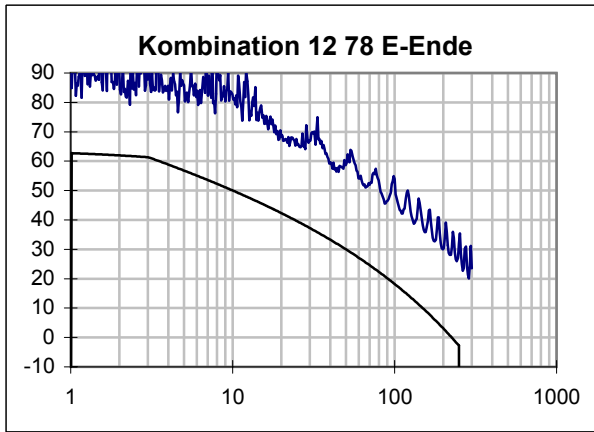
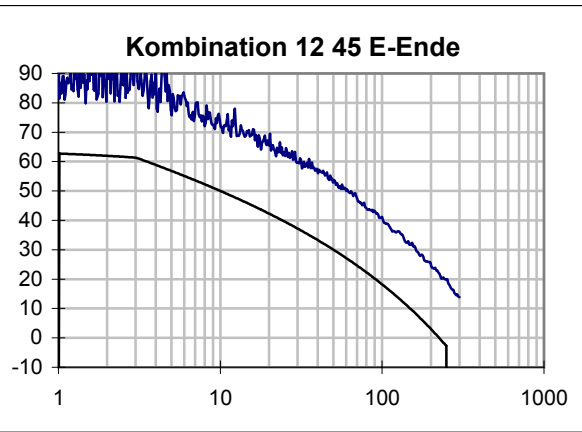
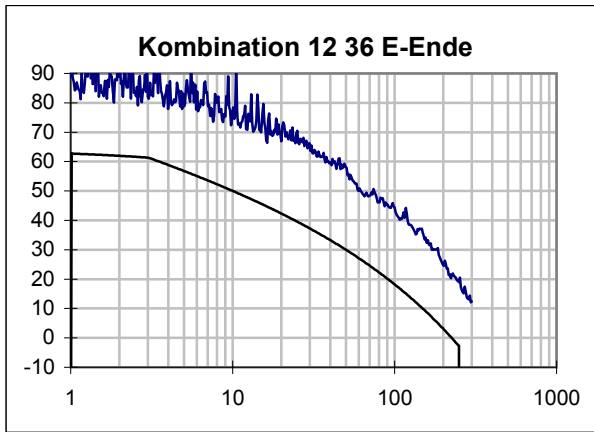




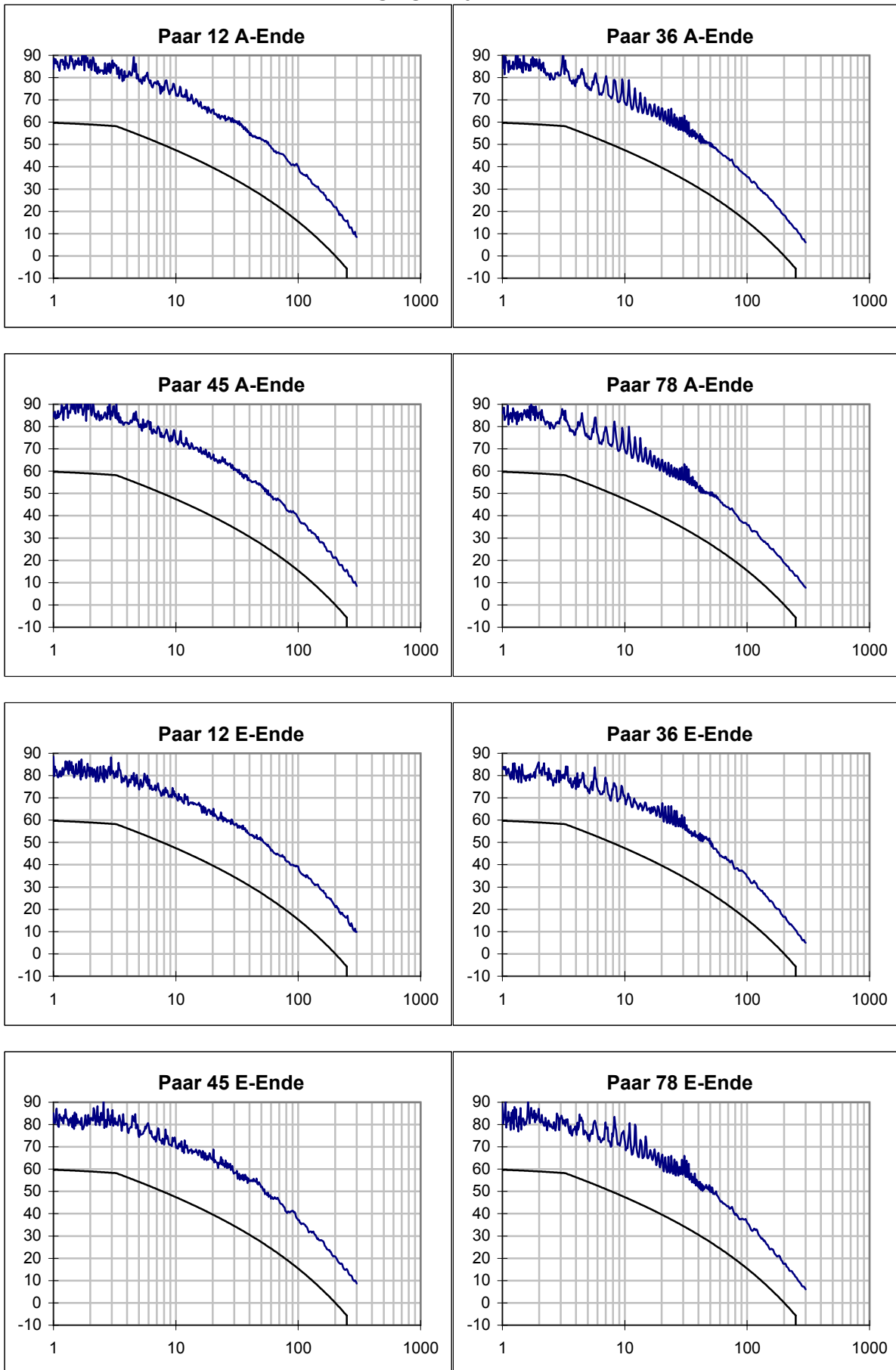
PSELFEXT / dB



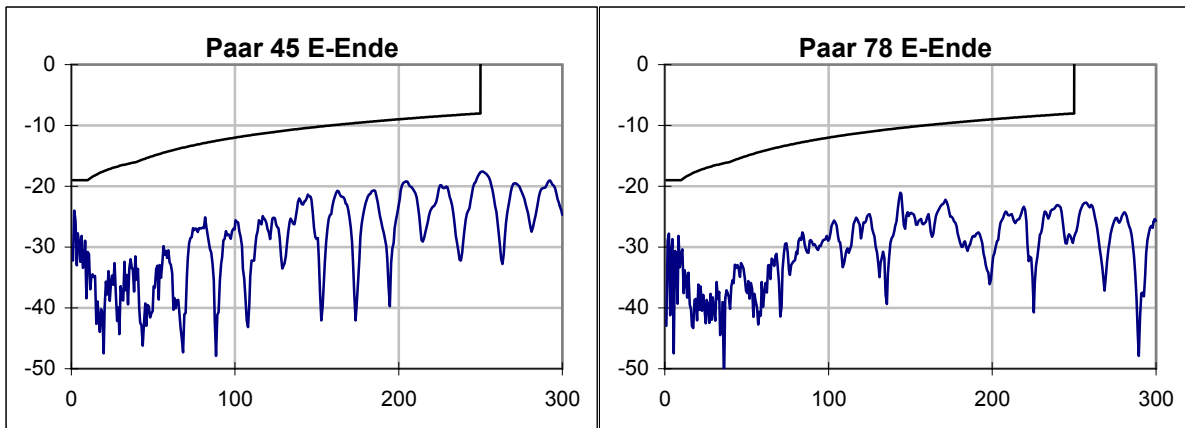
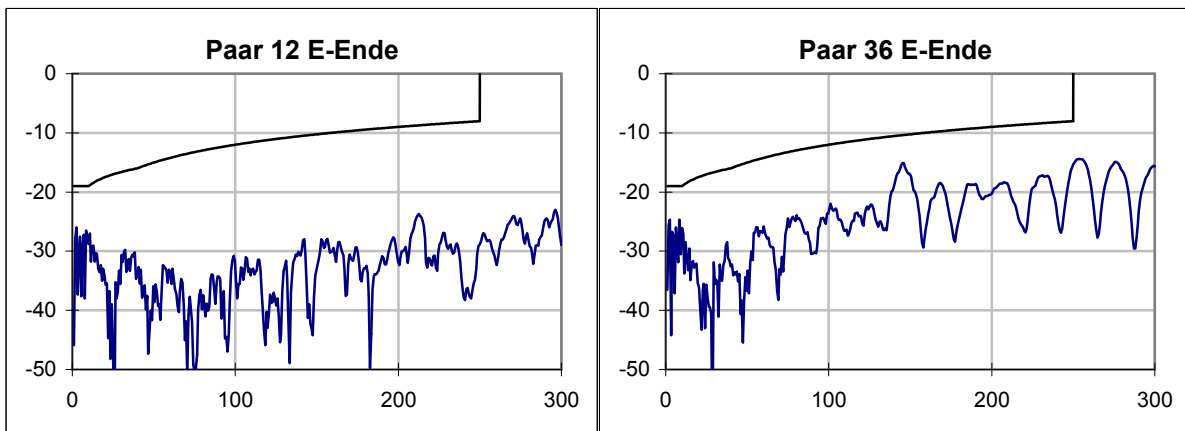
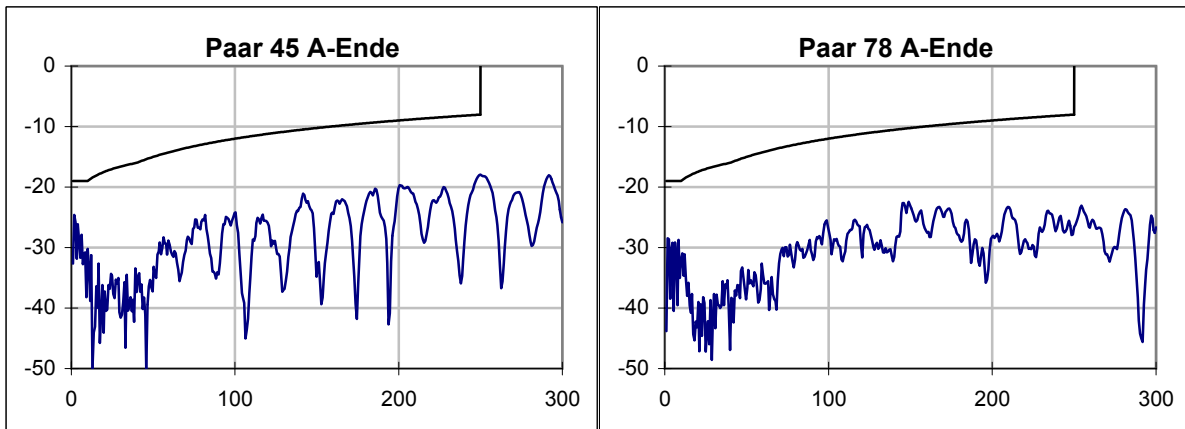
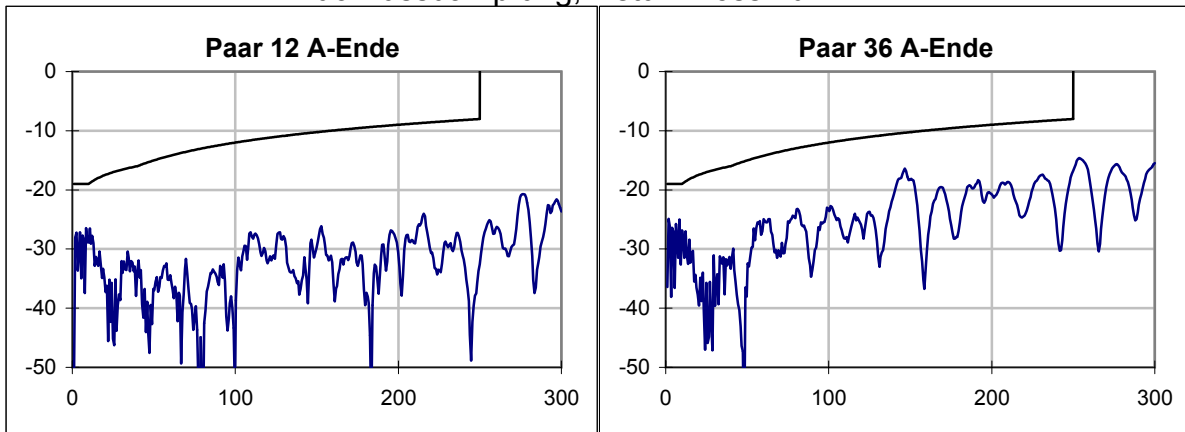




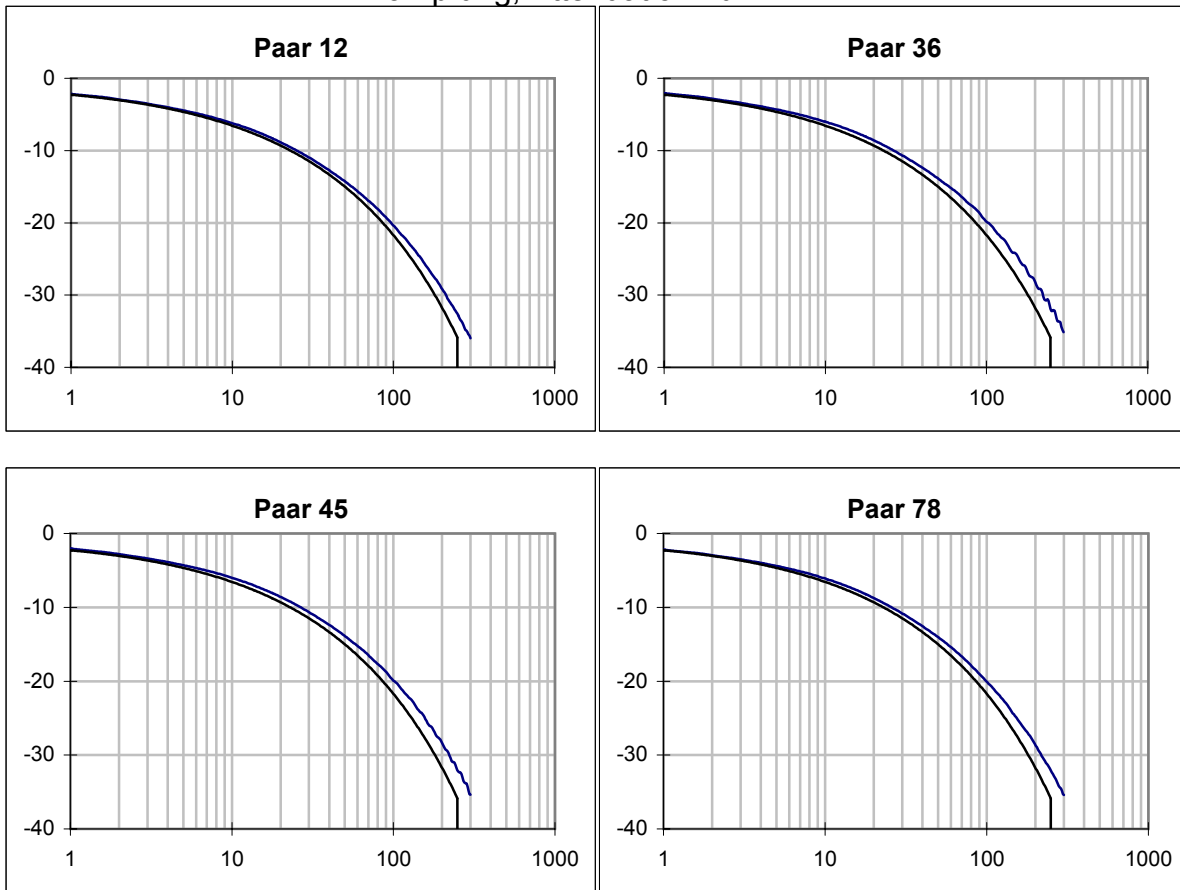
PSACR / dB



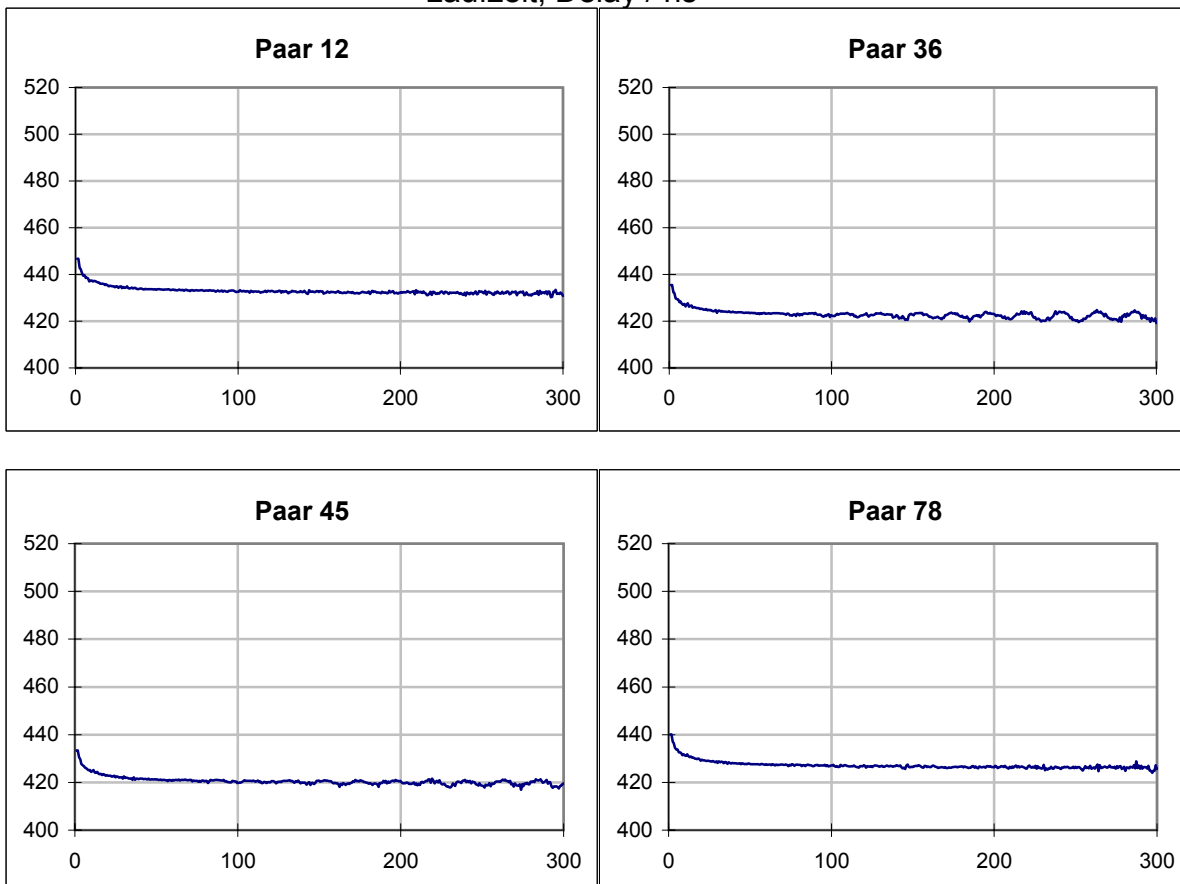
Rückflusdämpfung, Return Loss / dB



Dämpfung, Attenuation / dB

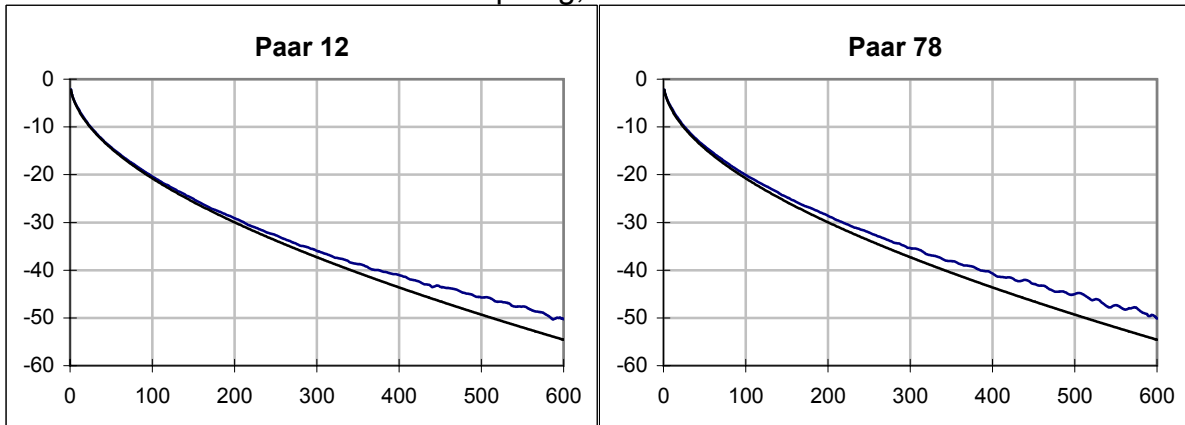


Laufzeit, Delay / ns

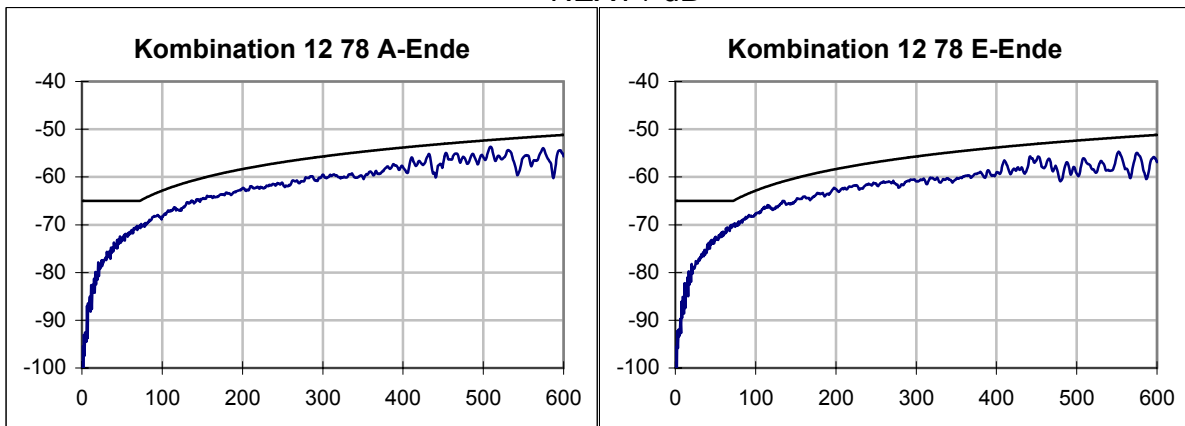


Zusatzmessungen Class F für die Paarkombination 12-78

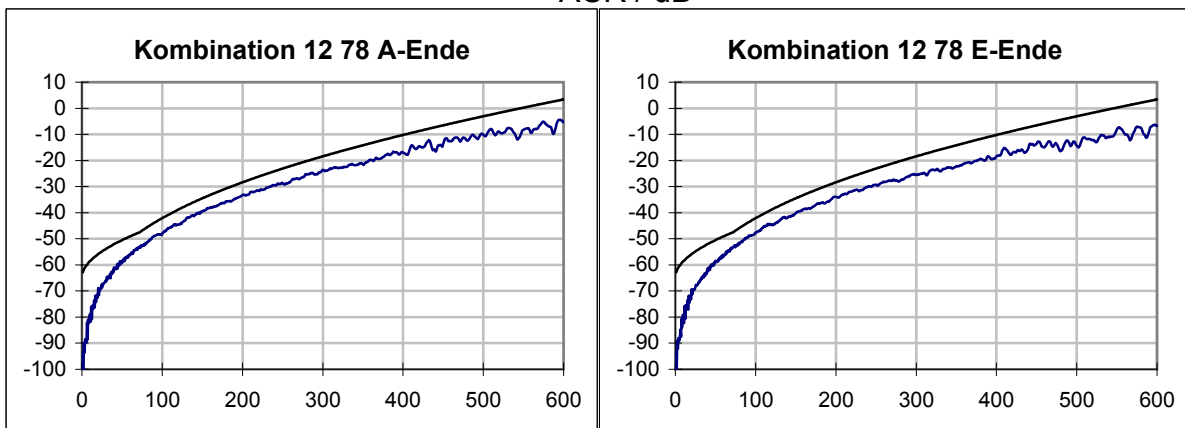
Dämpfung, Attenuation / dB



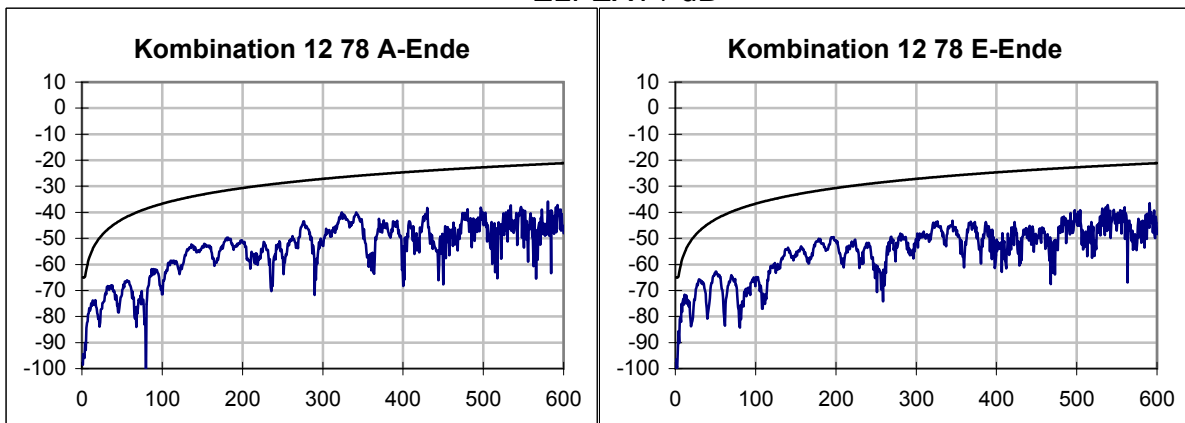
NEXT / dB



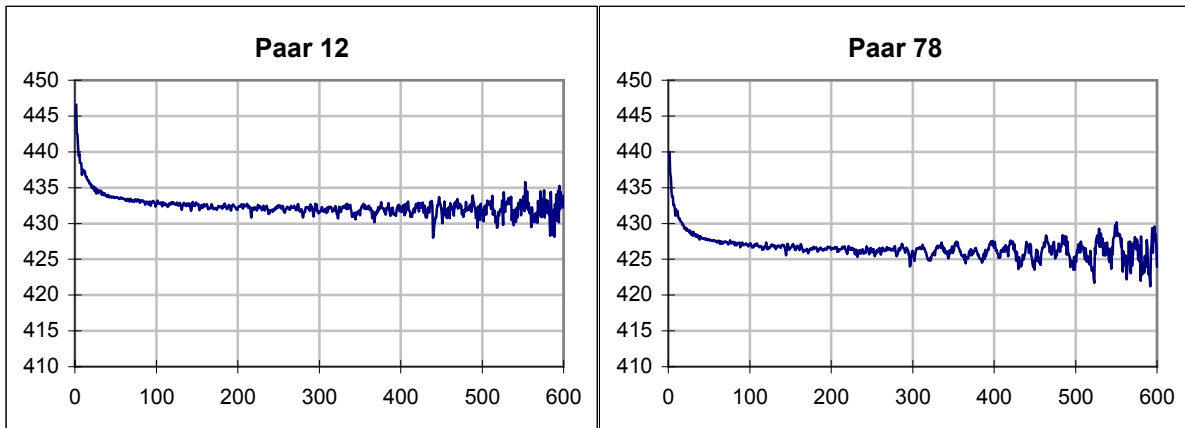
ACR / dB



ELFEXT / dB

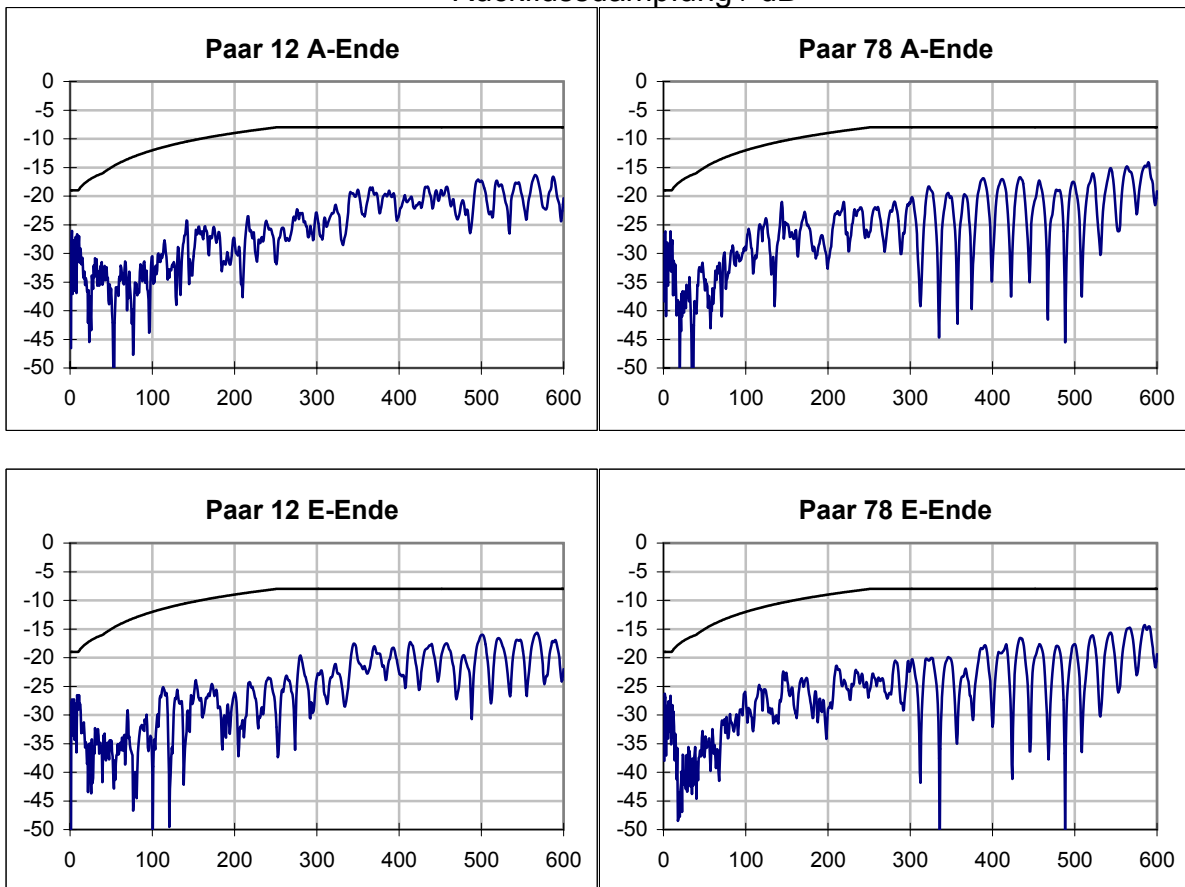


Laufzeit / ns



Maximaler skew / ns = 11,5 (Grenzwert: 30 ns)

Rückflusdämpfung / dB



Resultat: Die Paarkombination 12-78 erfüllt die Anforderungen an Class F.