

Testreport No: EWA30067-03T1

Transmission Performance Testing:

according to ISO/IEC 11801:2002; DIN EN 50173-1:2002,
Channel Class D

Equipment Under Test (EUT):

Part 1: J00020A0436 RJ45-Outlet IP67 AP Cat.6
(scanner side)

Part 2: J00020A0436 RJ45-Outlet IP67 AP Cat.6
(remote side)

Part 3: Microtest Omniscanner II
M06019A0105
J00026A0451 RJ45 Plug
Kerpen Megaline 526SC flex 7KS00248
J00026A0451 RJ45 Plug IP67

Installation cable: Kerpen Megaline 524SC4P LSFROH 7KS01516


Result:

The EUT has verified as being compliant with the specification of the standards ISO/IEC 11801:2002; DIN EN 50173-1:2002, Channel Class D.


Test location:

Telegärtner Karl Gärtner GmbH
Lerchenstraße 35
71144 Steinenbronn / Germany
Telefon: +49 7157 / 125 - 118 Fax: +49 7157 / 125 - 120
e-mail: frank.albert@telegaertner.com

Tested by:



Frank Albert
Assistant of laboratory
2003-12-05



Ralph Stoll
Laboratory manager

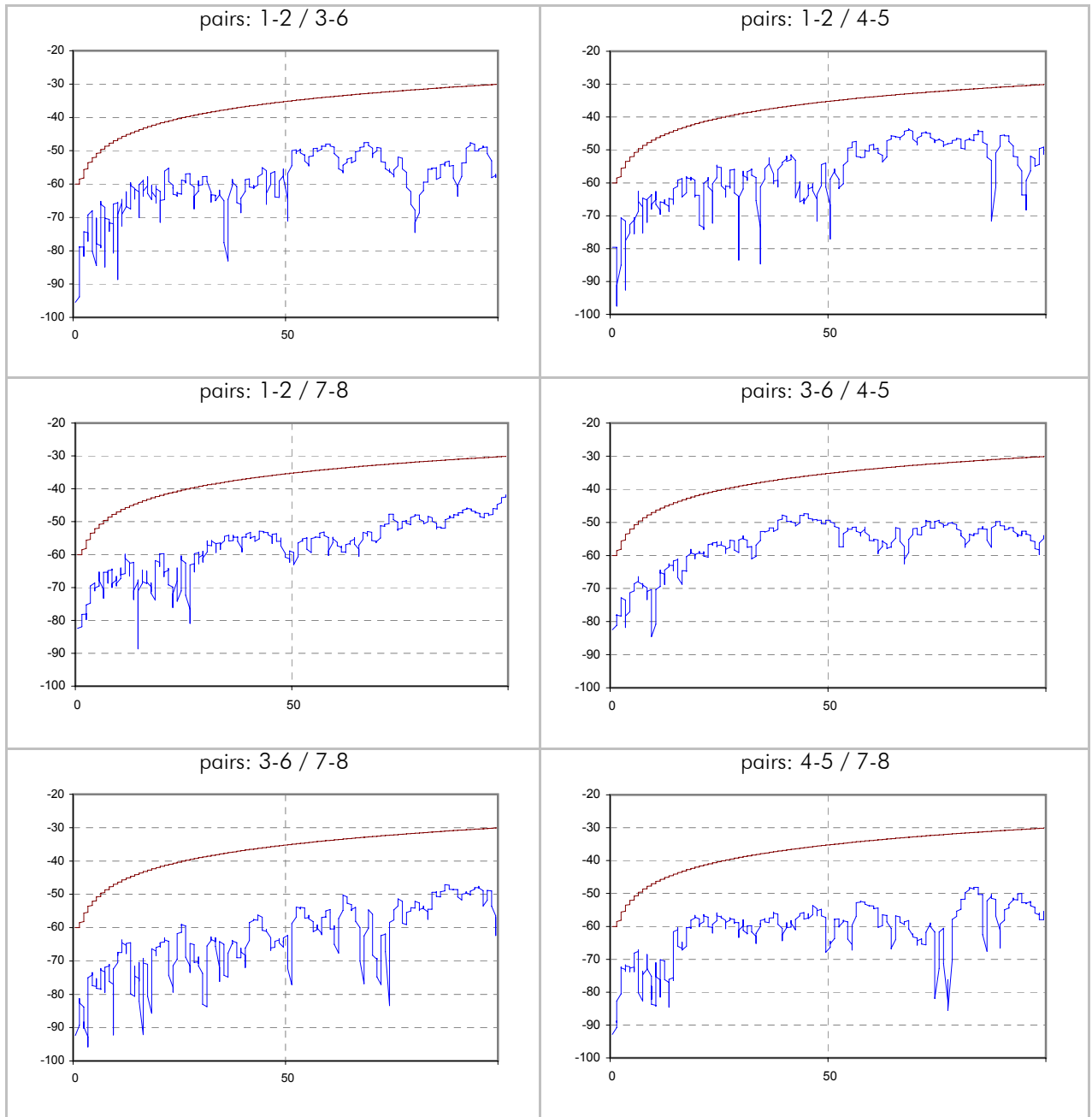
Test Results

pairs	1-2	3-6	4-5	7-8	limit	skew / ns	limit
max Propagation delay / ns	437,0	452,0	443,0	455,0	50,0	18,0	580,0
min Attenuation margin / dB	0,6	0,3	0,6	0,5			
@ f / MHZ	3,2	3,2	3,2	3,1			
Attenuation limit / dB	-4,1	-4,1	-4,1	-4,0			
Attenuation @ 100 MHz / dB	-19,3	-20,4	-19,5	-19,5	-24,0		
min PSNEXT margin / dB	10,8	13,5	12,4	12,8			
@ f / MHZ	6,8	44,6	6,6	15,1			
PSNEXT limit / dB	-46,8	-33,1	-47,0	-41,0			
PSNEXT @ 100 MHz	-41,2	-47,9	-42,7	-41,8	-27,1		
min PSELFEXT margin / dB	22,6	18,6	19,2	18,2			
@ f / MHZ	1,1	1,1	1,1	1,4			
PSELFEXT limit / dB	-53,8	-53,8	-53,8	-51,4			
PSELFEXT @ 100 MHz	-39,5	-39,3	-37,2	-37,1	-14,4		
min PSACR margin / dB	11,8	14,5	13,3	14,2			
@ f / MHZ	6,8	4,3	6,6	15,1			
PSACR limit / dB	40,9	45,3	41,2	32,2			
PSACR @ 100 MHz	24,1	31,6	28,3	23,1	3,1		
min Return Loss margin / dB	7,6	2,9	8,6	8,0			
@ f / MHZ	8,2	13,1	3,7	5,7			
Return Loss limit / dB	-17,0	-17,0	-17,0	-17,0			
Return Loss @ 100 MHz	-29,8	-25,4	-22,4	-30,5	-10,0		

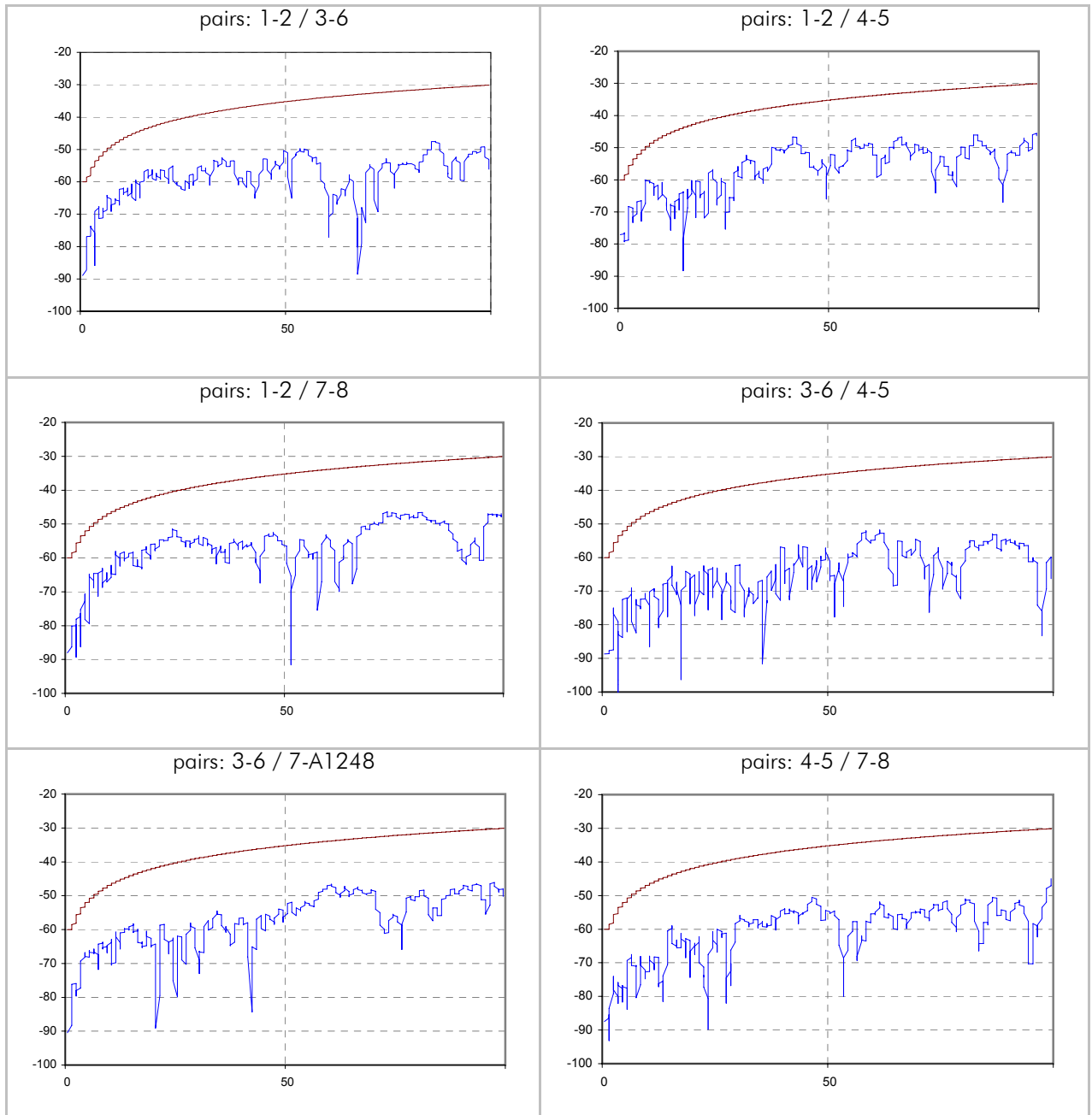
pairs	1-2 / 3-6	1-2 / 4-5	1-2 / 7-8	3-6 / 4-5	3-6 / 7-8	4-5 / 7-8	limit
min NEXT margin / dB	12,6	10,2	11,0	10,8	12,8	14,4	
@ f / MHZ	16,0	41,9	24,8	39,6	60,3	19,4	
Next limit / dB	-43,6	-36,5	-40,4	-37,0	-33,8	-42,2	
NEXT @ 100 MHz	-54,9	-45,7	-41,9	-54,0	-49,0	-45,7	-30,1
min ACR margin / dB	13,6	11,1	12,9	12,7	14,1	16,0	
@ f / MHZ	16,0	6,8	24,8	39,9	4,3	19,4	
ACR limit / dB	34,5	43,9	29,0	22,3	48,3	32,2	
ACR @ 100 MHz	37,0	30,4	28,5	42,3	42,0	36,7	6,1

pairs	3-6 / 1-2	4-5 / 1-2	7-8 / 1-2	4-5 / 3-6	7-8 / 3-6	7-8 / 4-5	limit
	1-2 / 3-6	1-2 / 4-5	1-2 / 7-8	3-6 / 4-5	3-6 / 7-8	4-5 / 7-8	
min ELFEXT margin / dB	23,4	19,8	19,1	21,8	18,1	19,2	
@ f / MHZ	10,9	1,1	11,8	59,2	1,1	11,8	
ELFEXT limit / dB	-36,7	-56,8	-36,0	-22,0	-56,8	-36,0	
min ELFEXT margin / dB	21,5	23,3	21,6	22,7	20,0	18,3	
@ f / MHZ	89,8	10,9	60,8	89,8	1,1	1,1	
ELFEXT limit / dB	-18,3	-36,7	-21,7	-18,3	-56,8	-56,8	
ELFEXT @ 100 MHz	-52,0	-45,0	-38,0	-44,0	-53,1	-37,9	-17,4
ELFEXT @ 100 MHz	-40,6	-51,8	-43,9	-41,7	-45,9	-54,0	

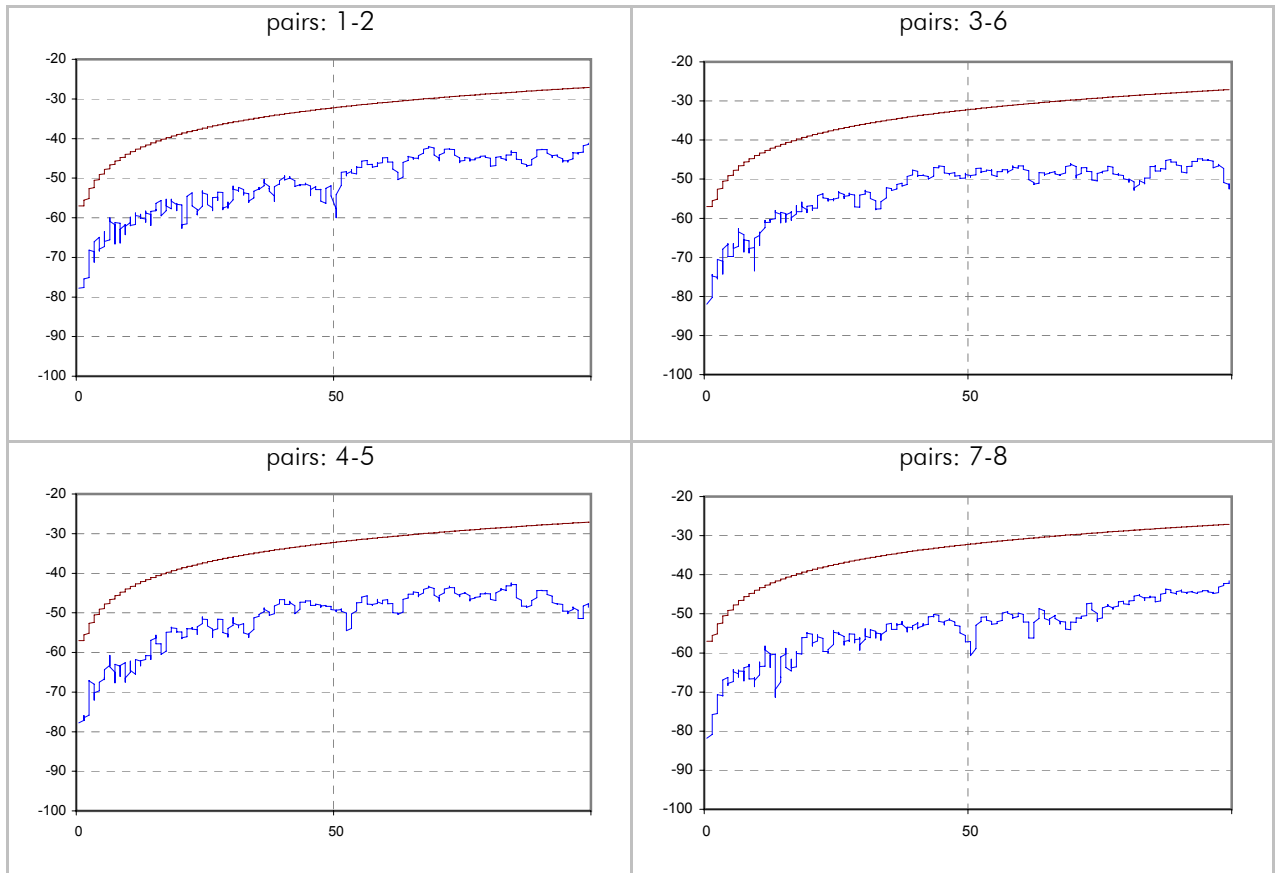
NEXT / dB (scanner side - type 1 side)



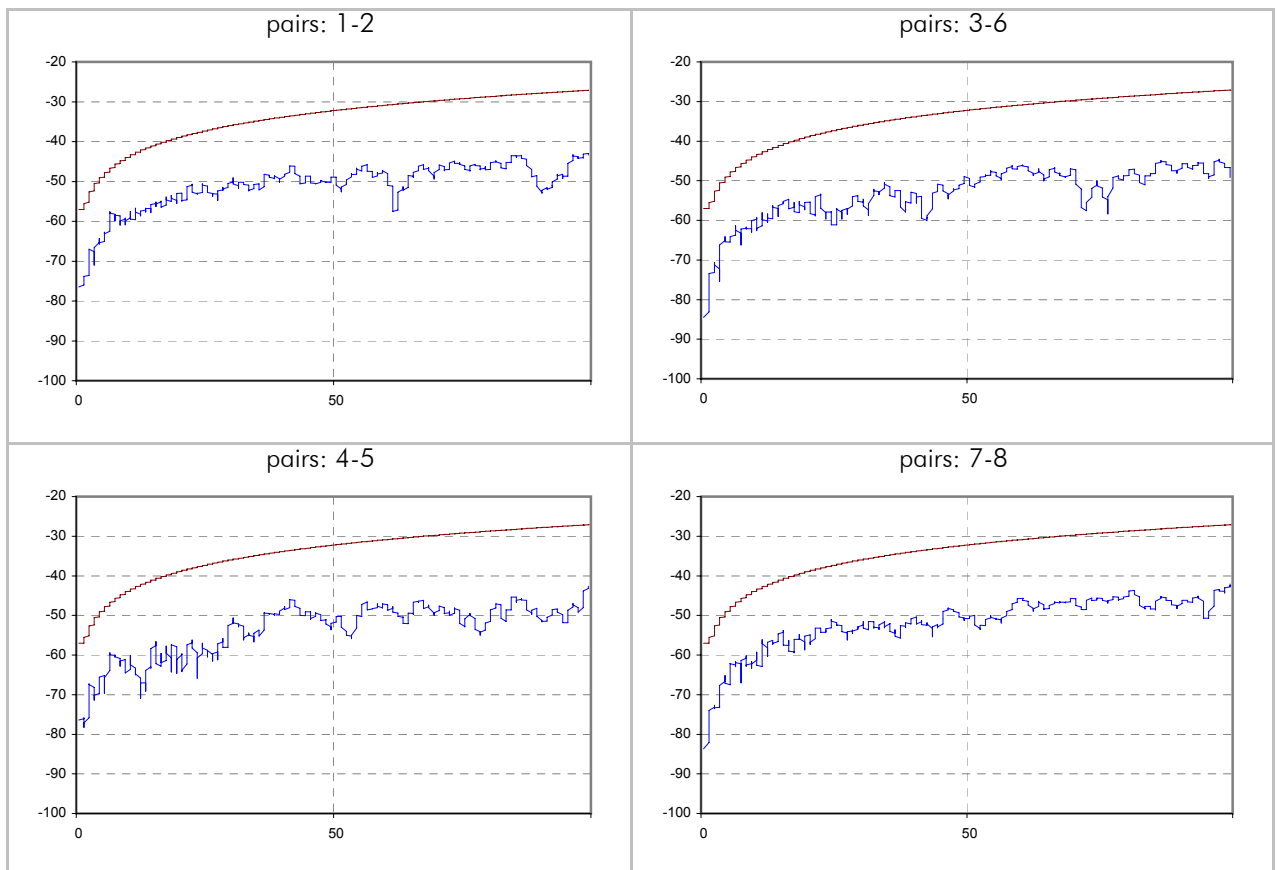
NEXT / dB (remote side - type 2 side)



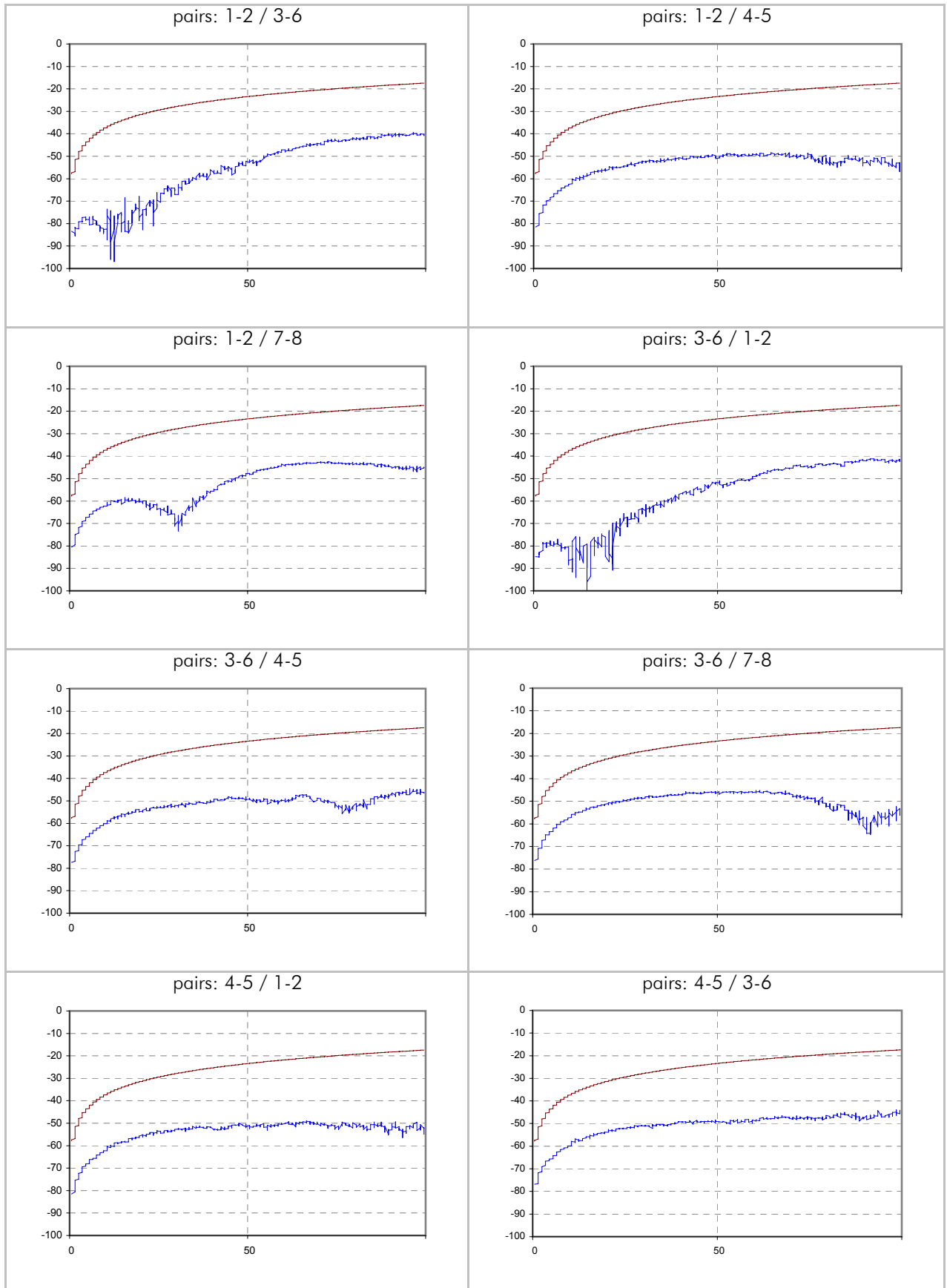
PSNEXT / dB (scanner side - type 1 side)



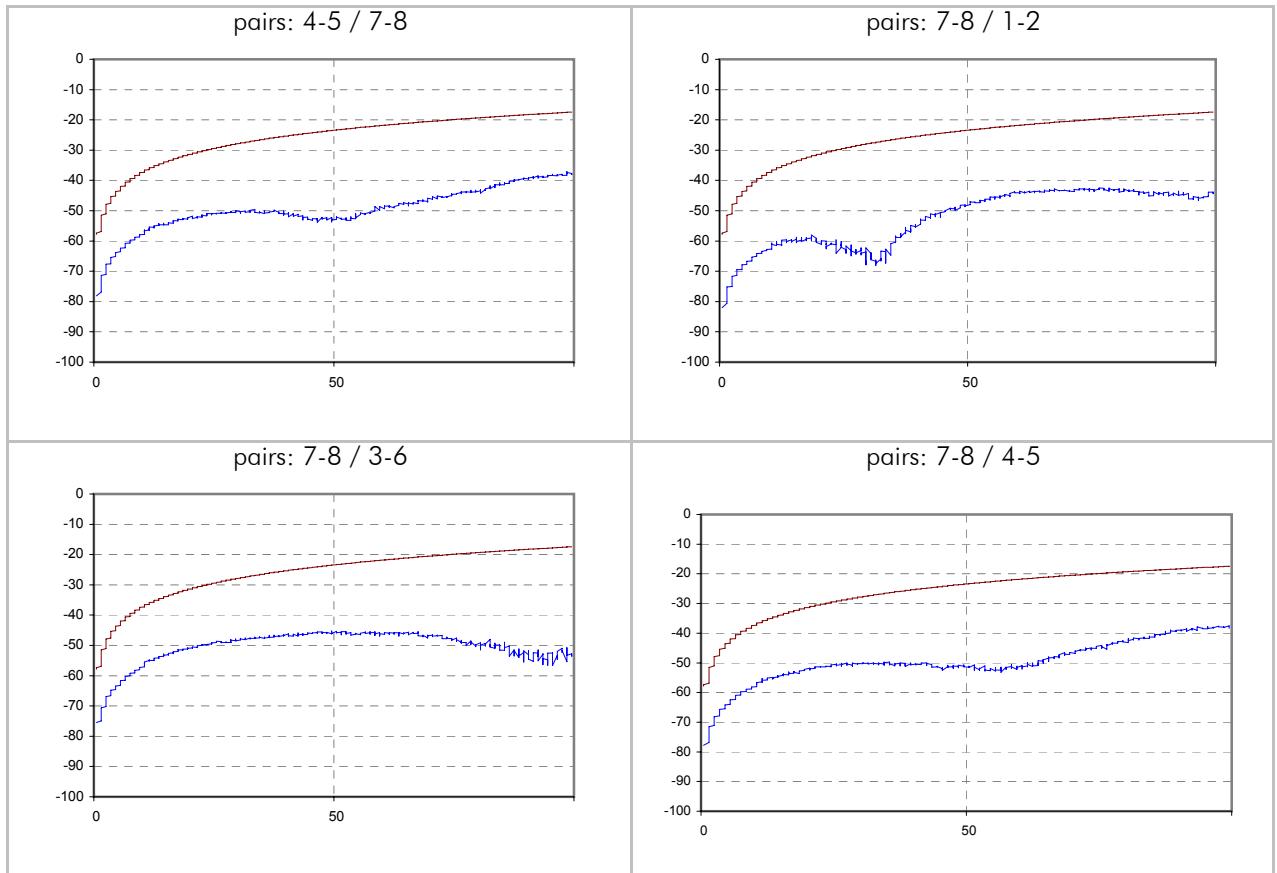
PSNEXT / dB (remote side - type 2 side)



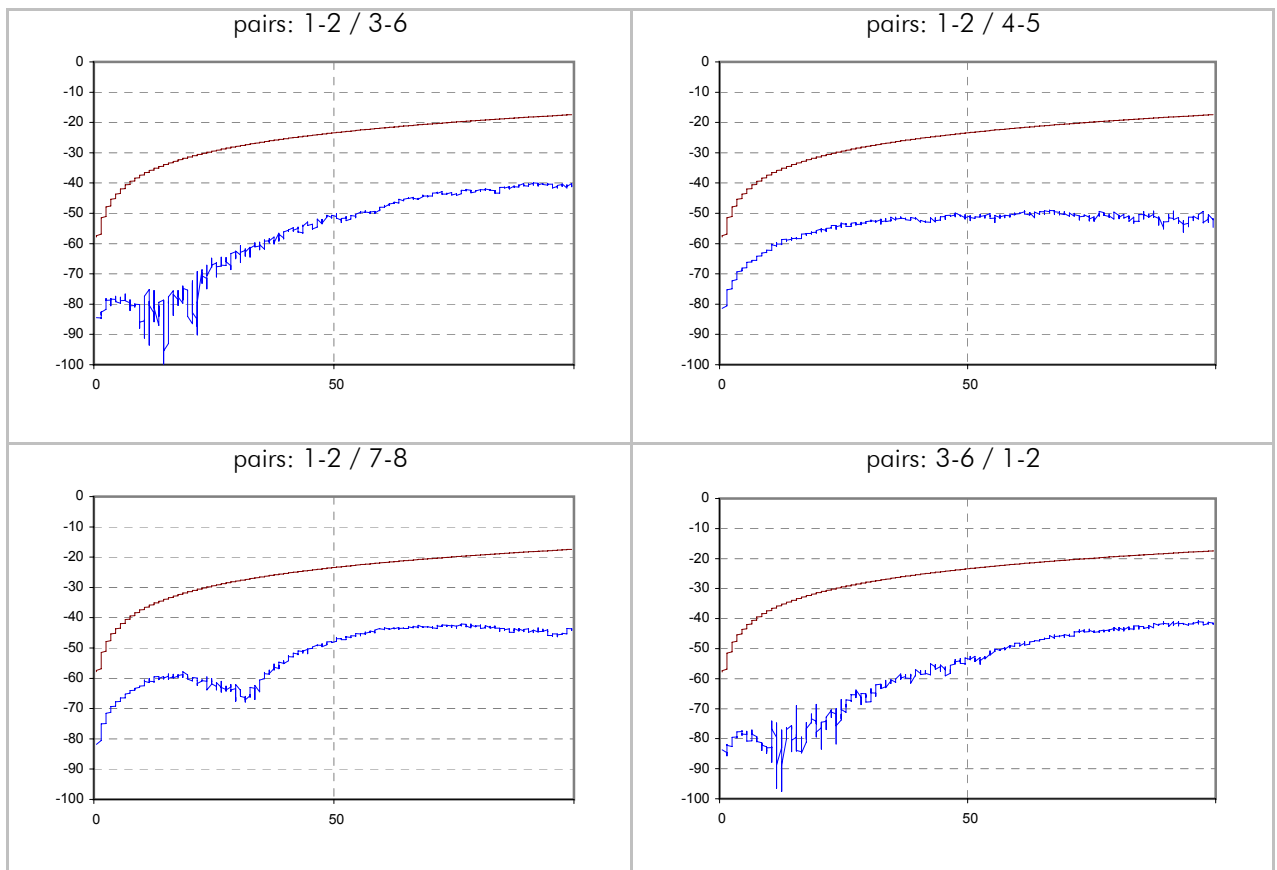
ELFEXT / dB (scanner side - type 1 side)



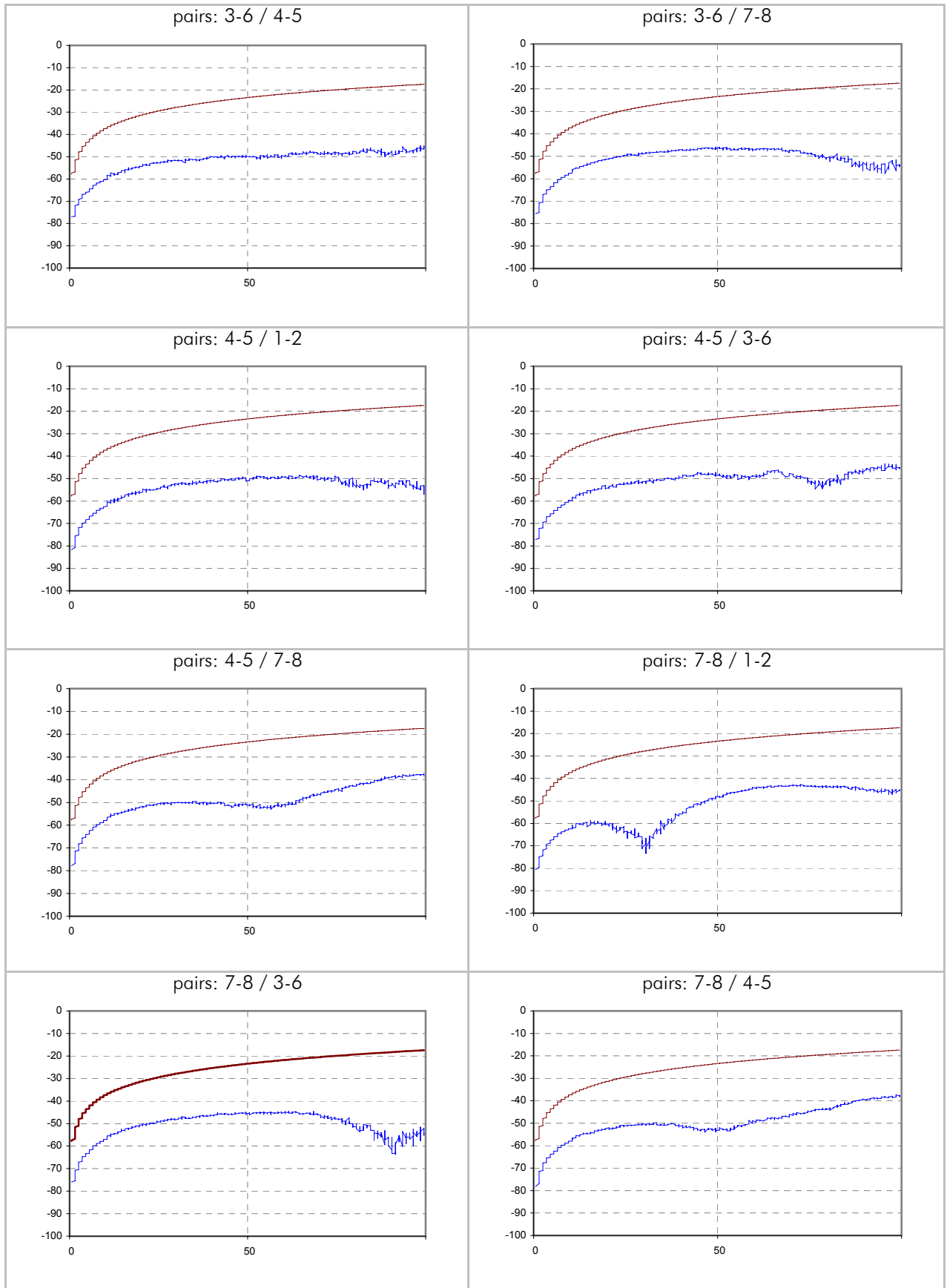
ELFEXT / dB (scanner side - type 1 side)



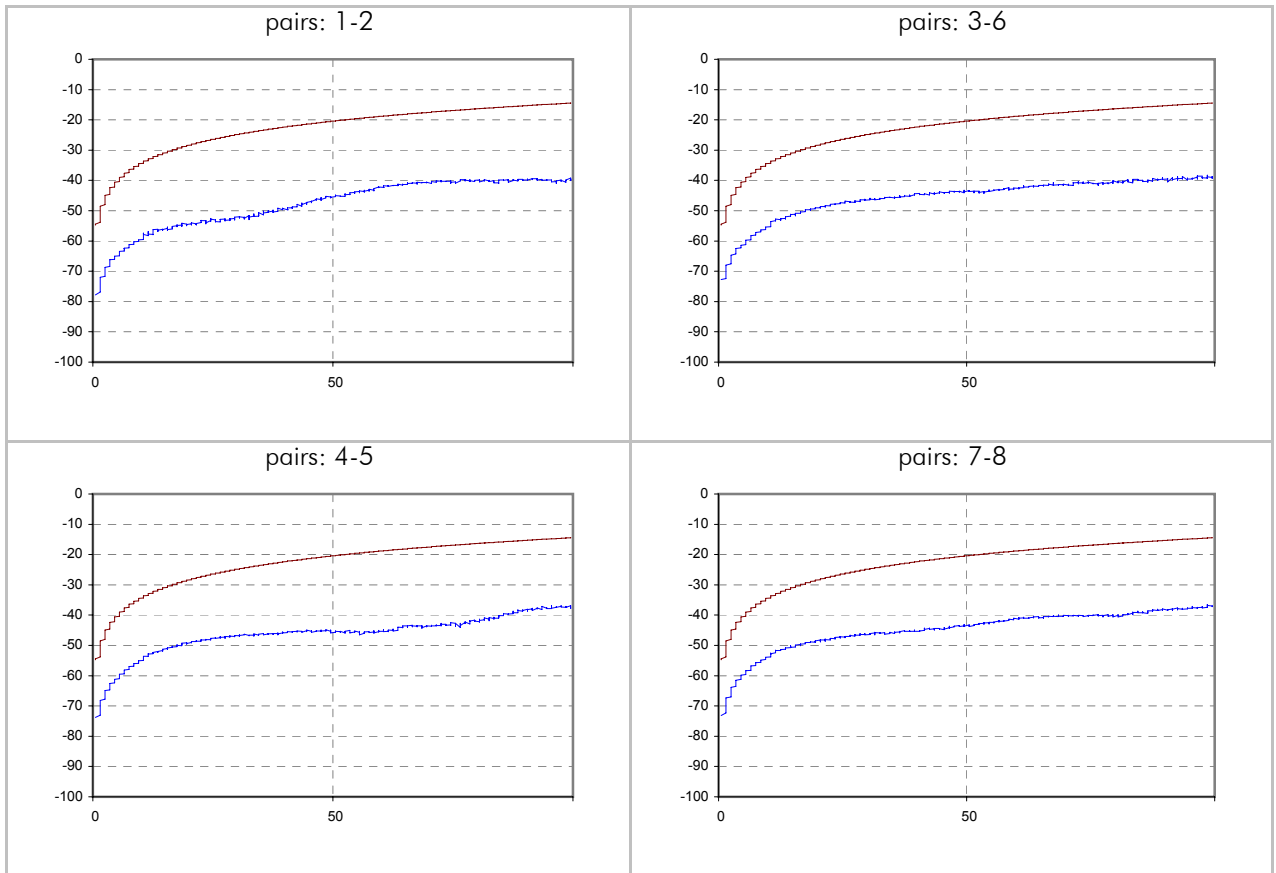
ELFEXT / dB (remote side - type 2 side)



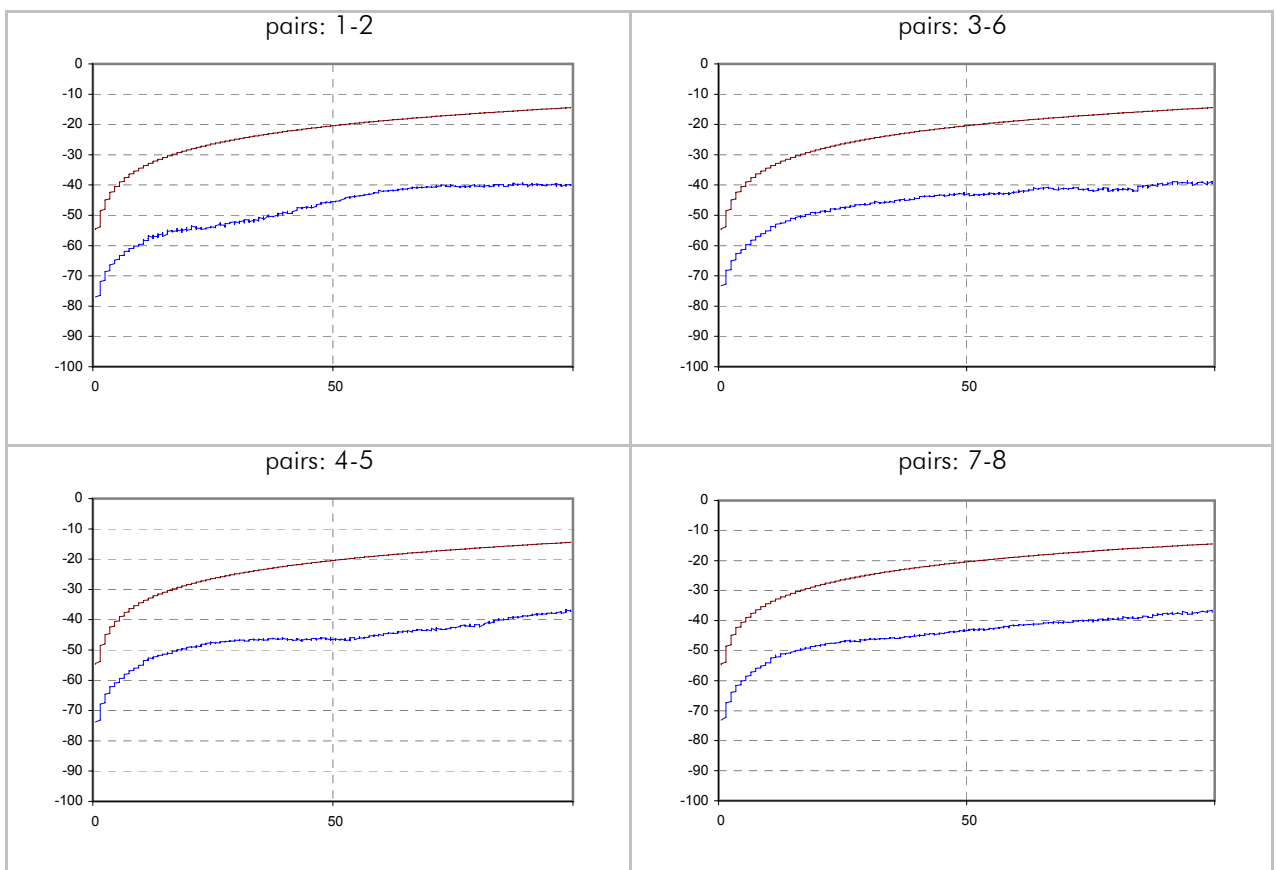
ELFEXT / dB (remote side - type 2 side)



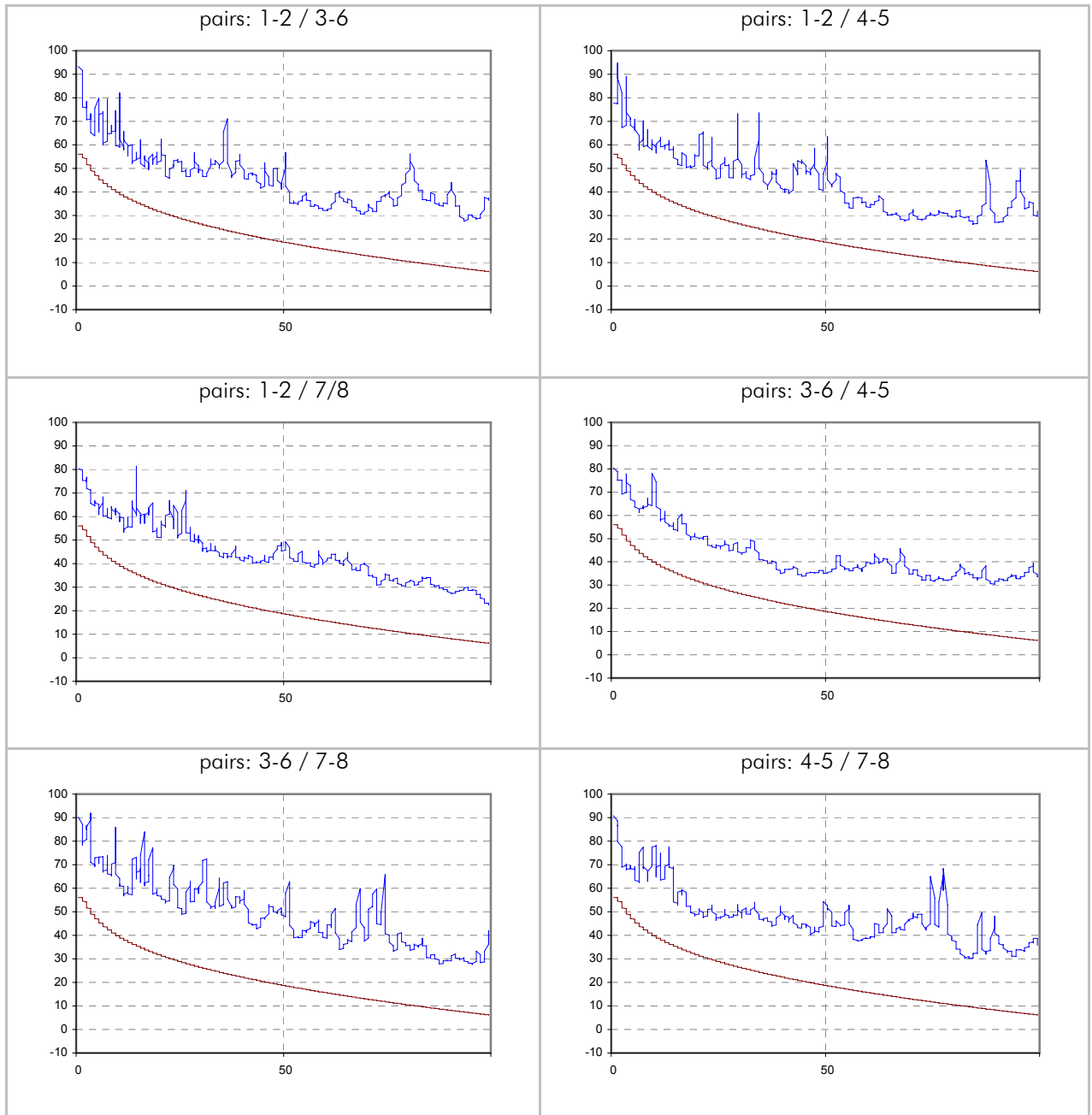
PSELFEXT / dB (scanner side - type 1 side)



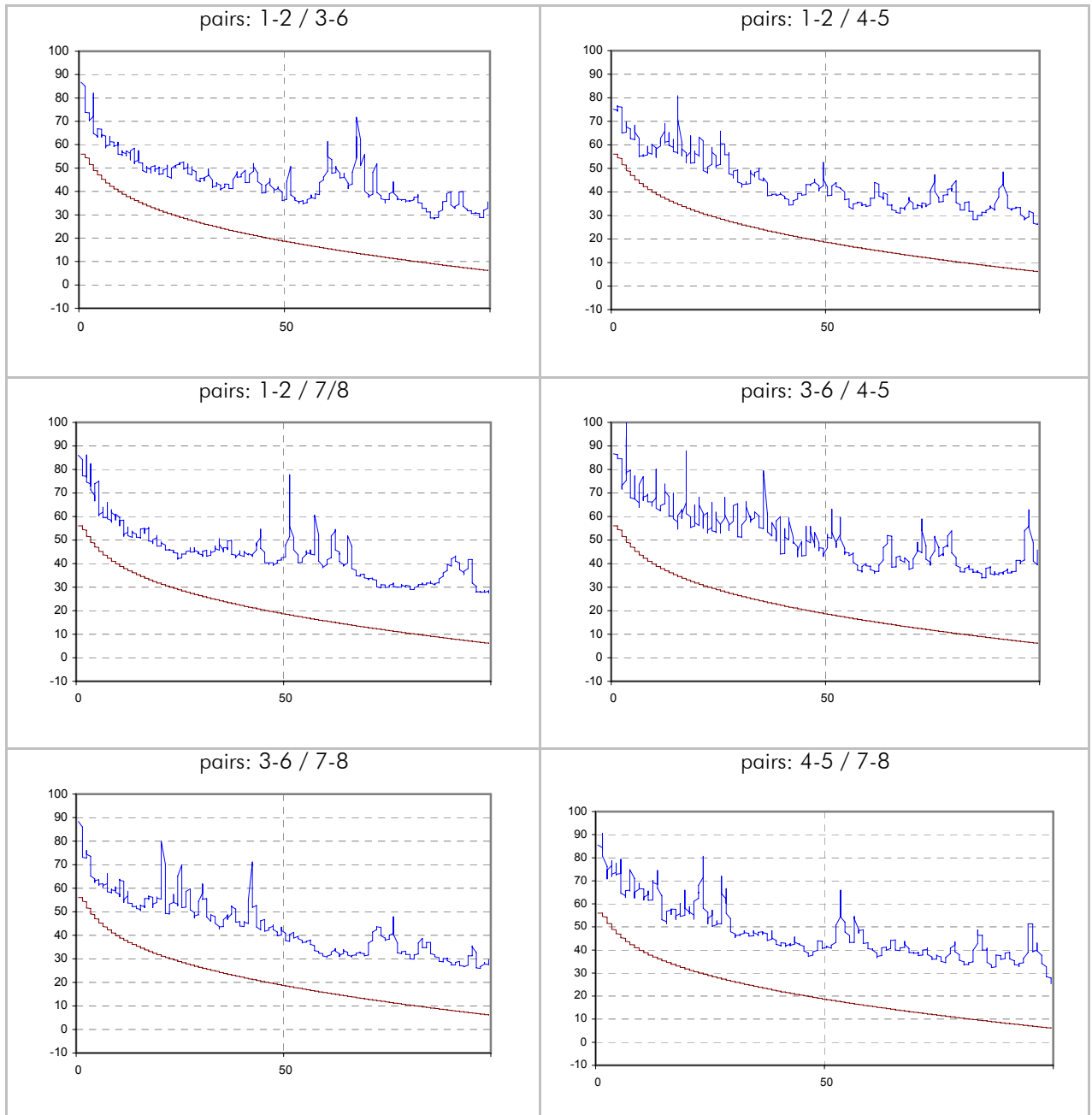
PSELFEXT / dB (remote side - type 2 side)



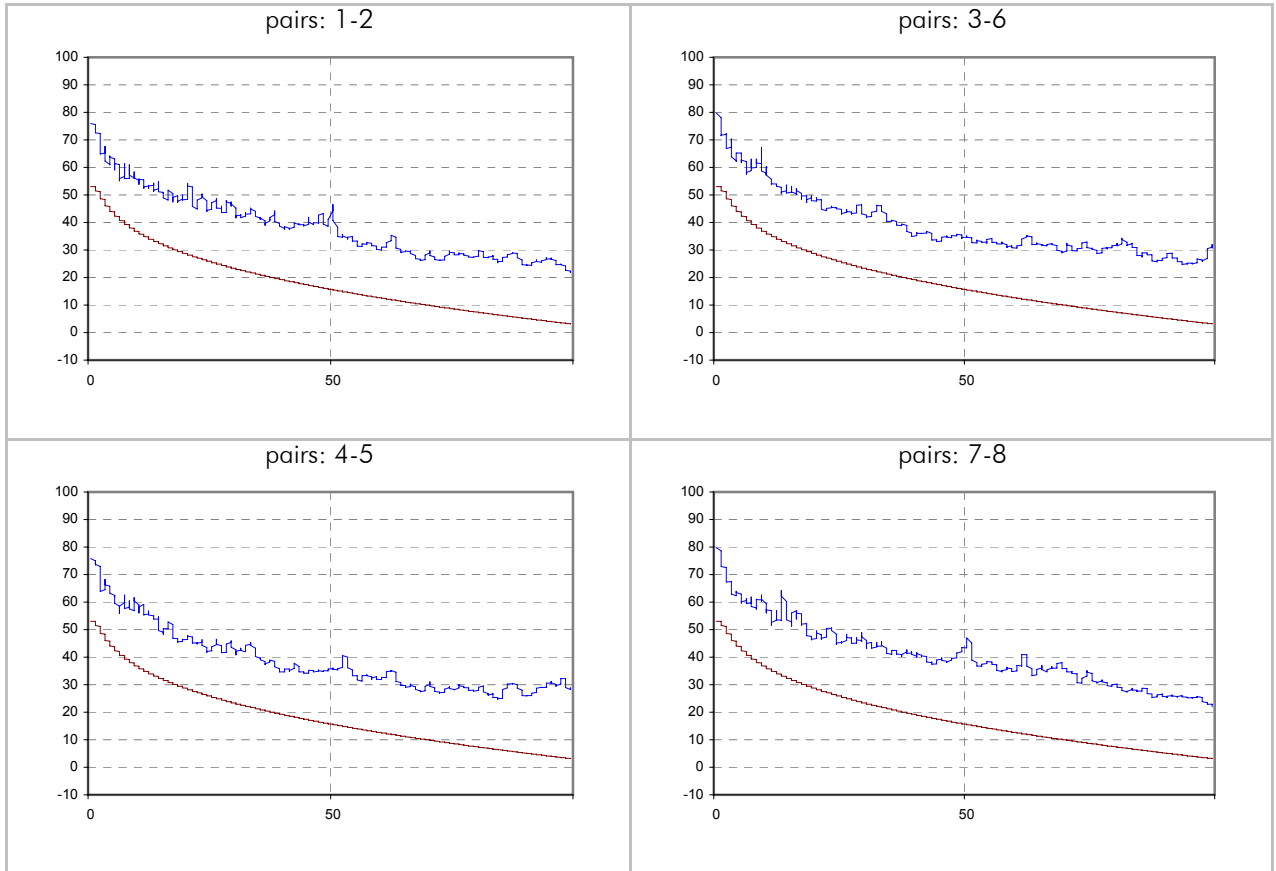
ACR / dB (scanner side - type 1 side)



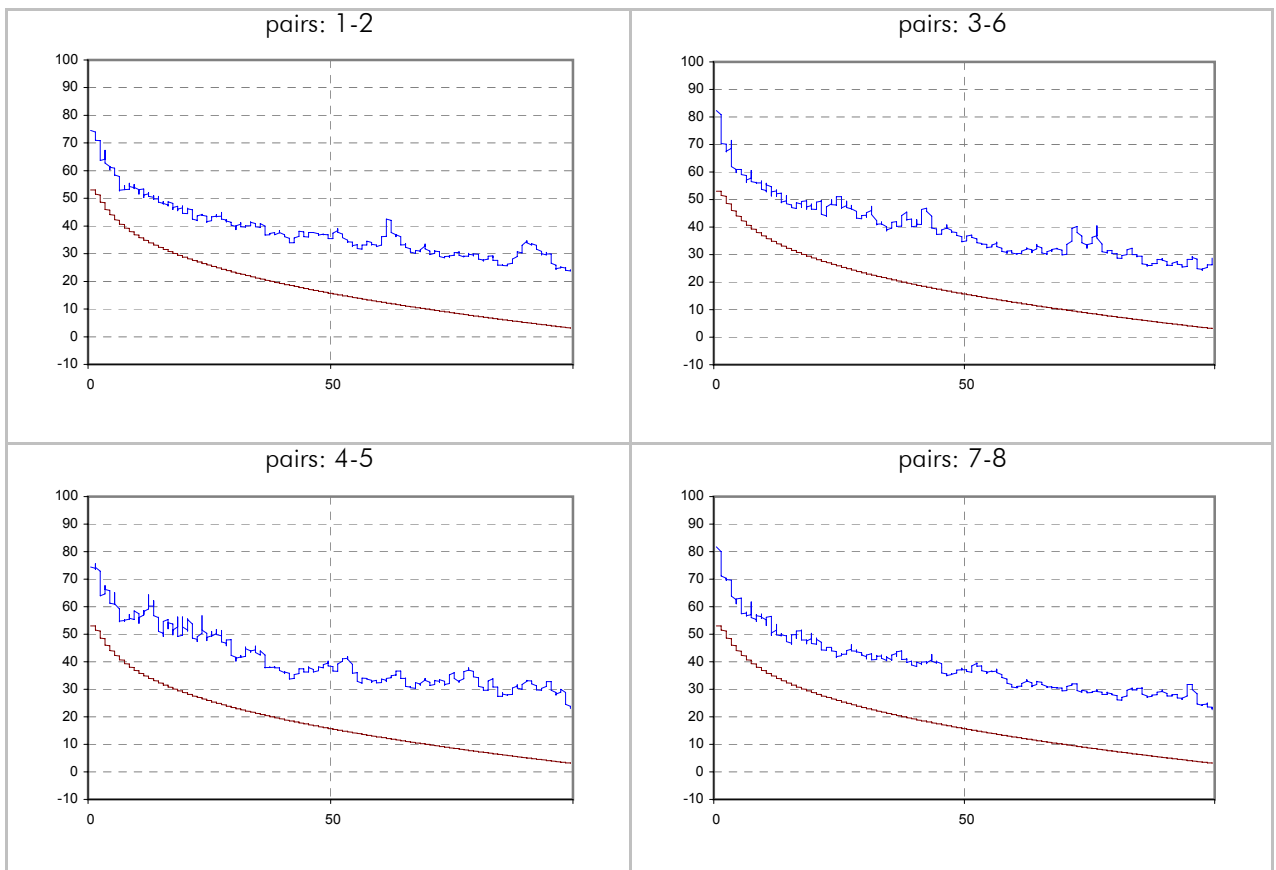
ACR / dB (remote side - type 2 side)



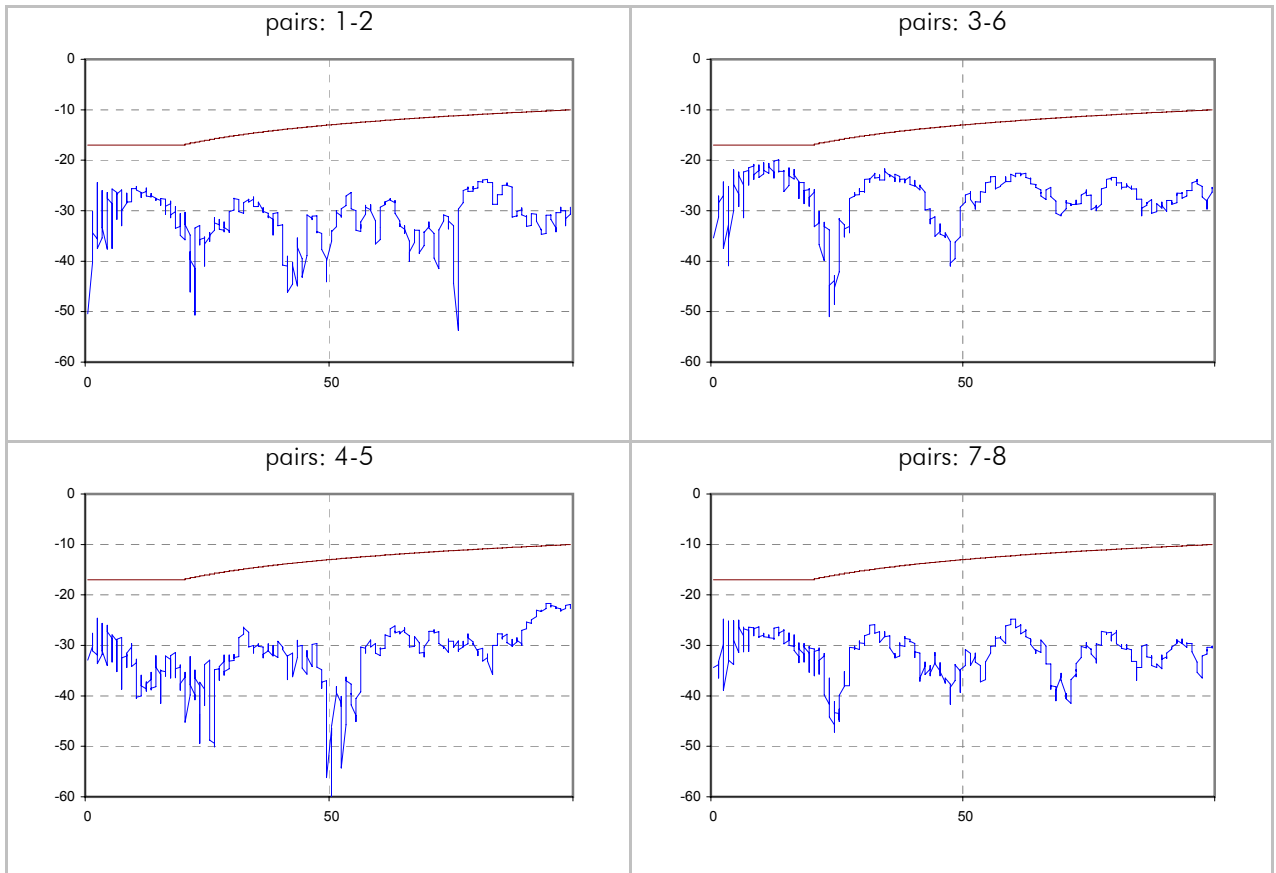
PSACR / dB (scanner side - type 1 side)



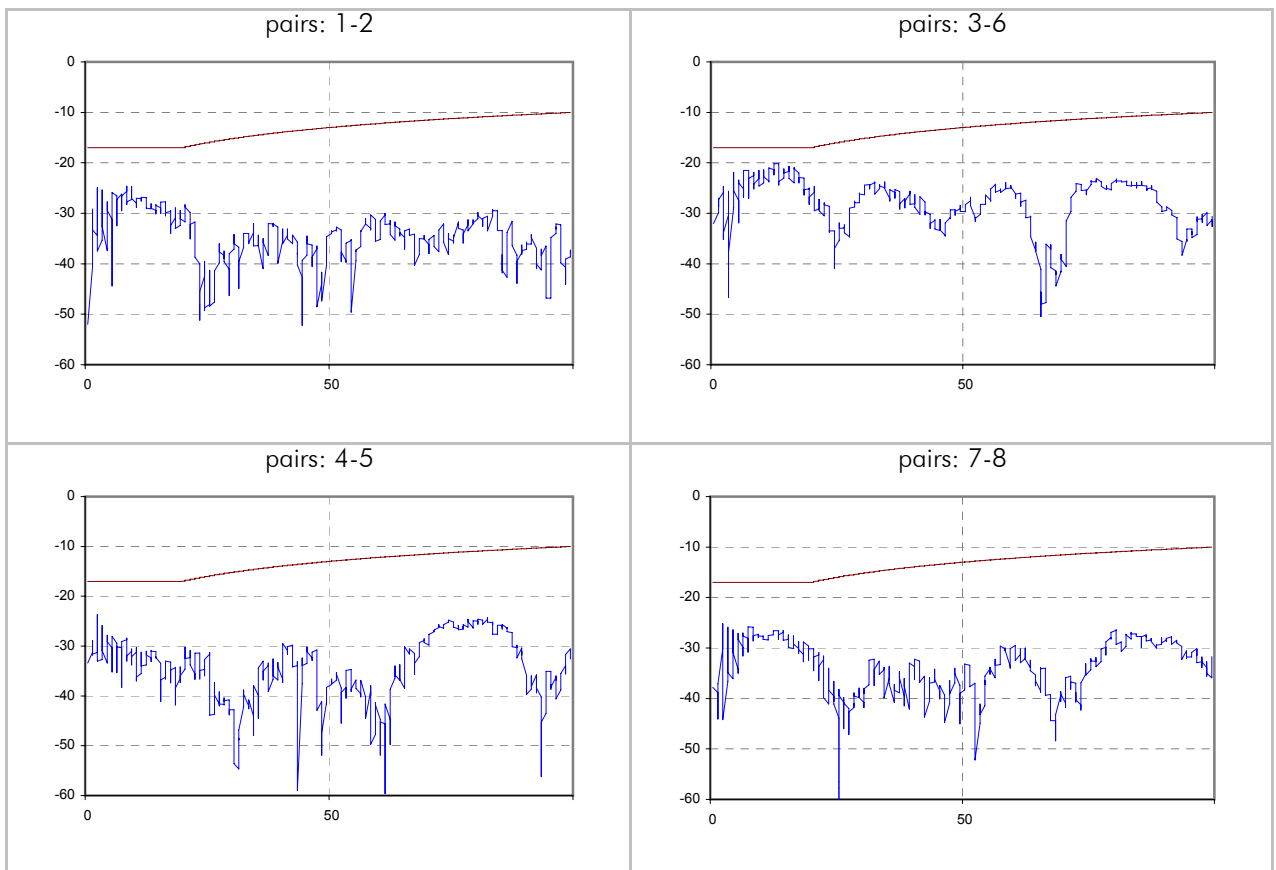
PSACR / dB (remote side - type 2 side)



Return Loss / dB (scanner side - type 1 side)



Return Loss / dB (remote side - type 2 side)



Attenuation / dB

