

남천교(부산) 초음파탐사 1

탐사위치	S1 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	25.3	10	24.2
20	51.2	20	46.8
30	77.4	30	74.2
40	102.1	40	97.6
50	123.6	50	126.3
초음파속도 Vi	4.03	초음파속도 Vi	3.92

$y = 0.403x - 0.630$
 $R^2 = 0.998$

$y = 0.391x + 1.093$
 $R^2 = 0.998$

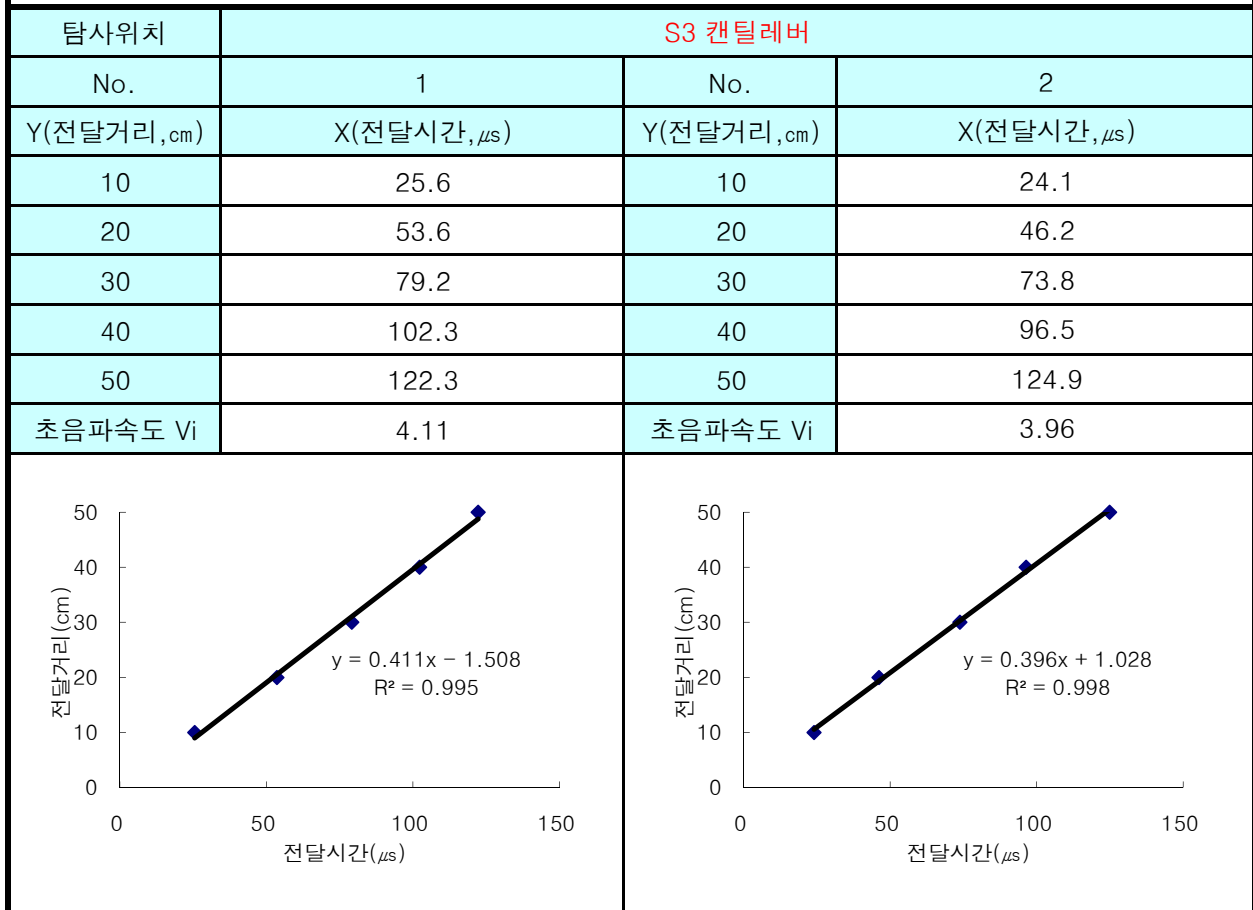
남천교(부산) 초음파탐사 2

탐사위치	S2 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	24.9	10	23.5
20	52.7	20	45.7
30	77.1	30	72.9
40	103.5	40	96.1
50	124.6	50	119.5
초음파속도 Vi	3.99	초음파속도 Vi	4.12

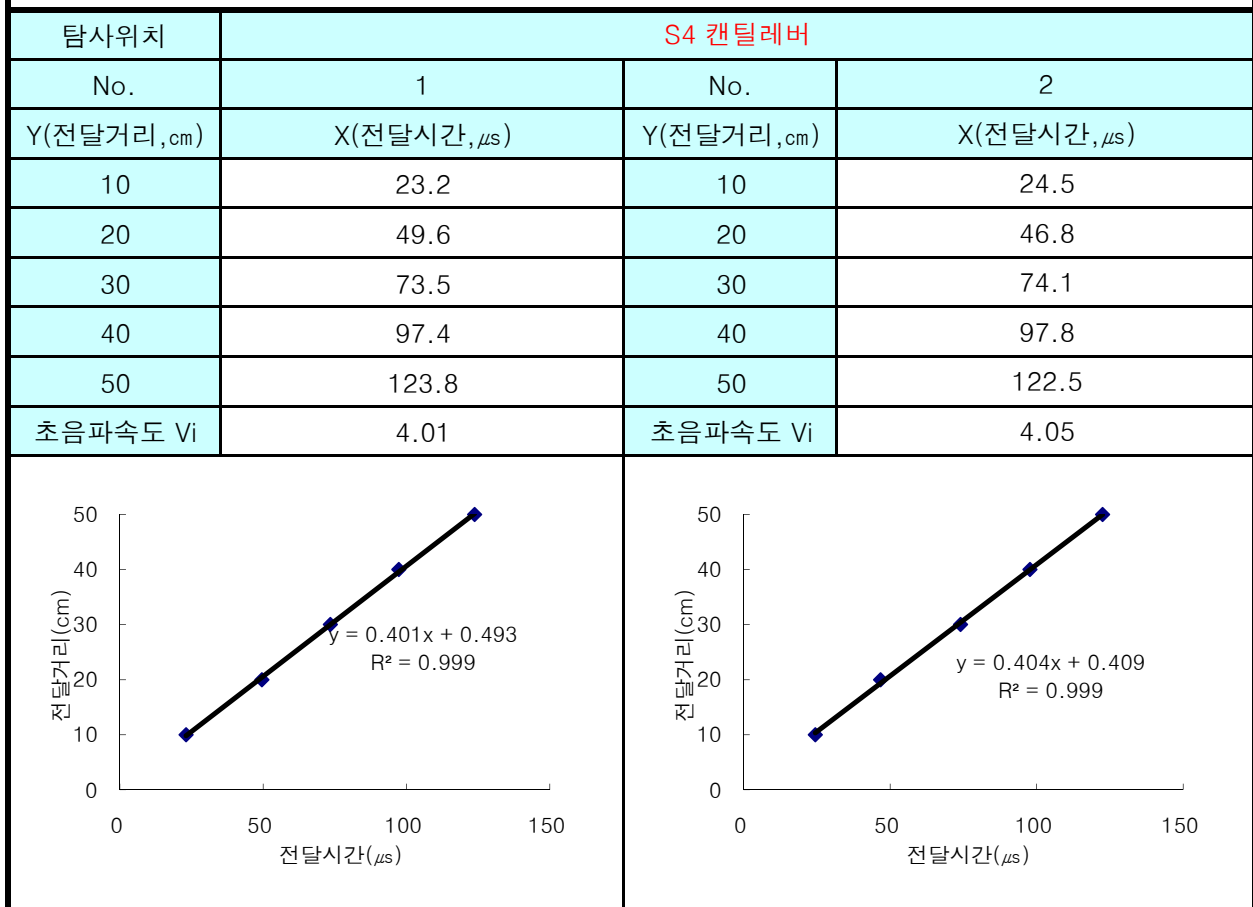
$y = 0.398x - 0.541$
 $R^2 = 0.998$

$y = 0.412x + 0.511$
 $R^2 = 0.999$

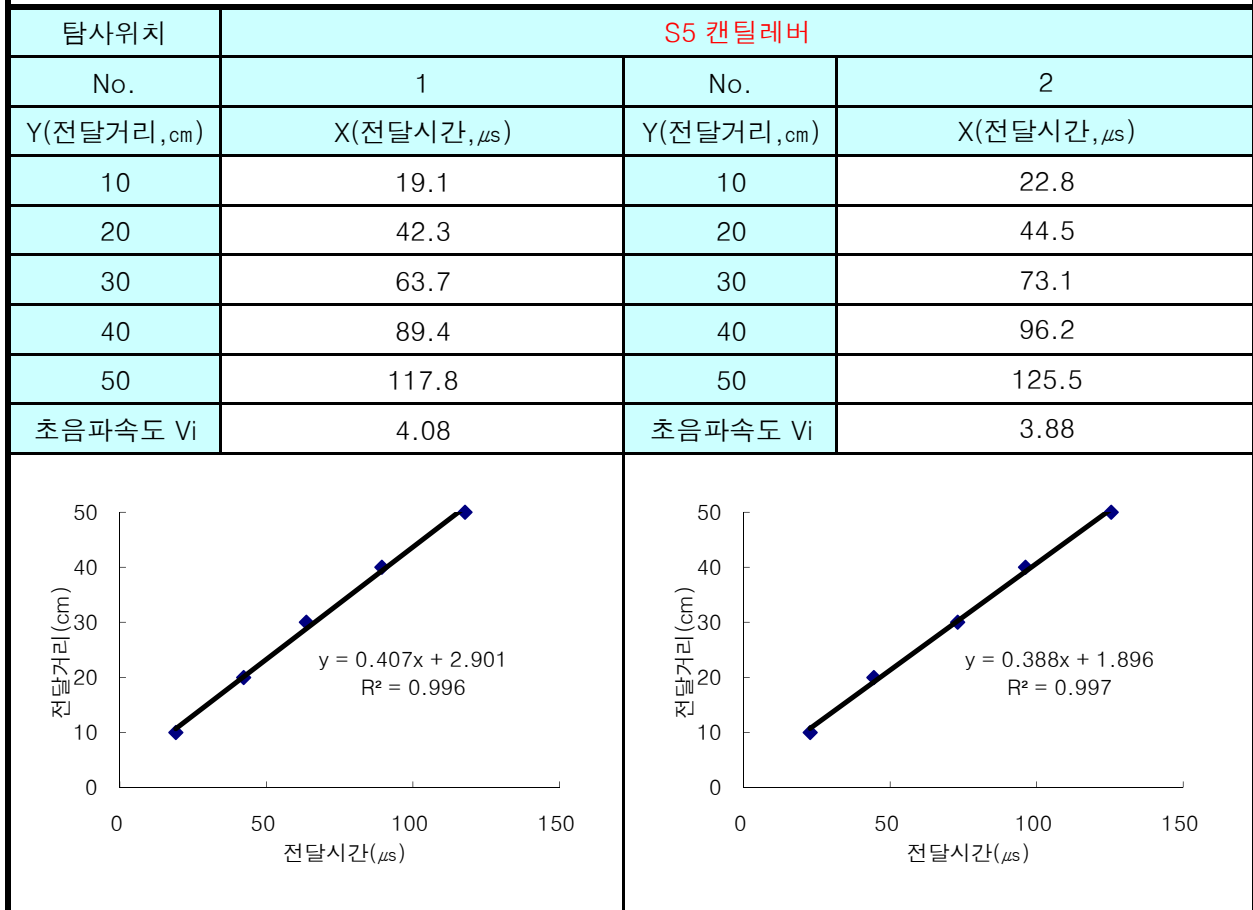
남천교(부산) 초음파탐사 3



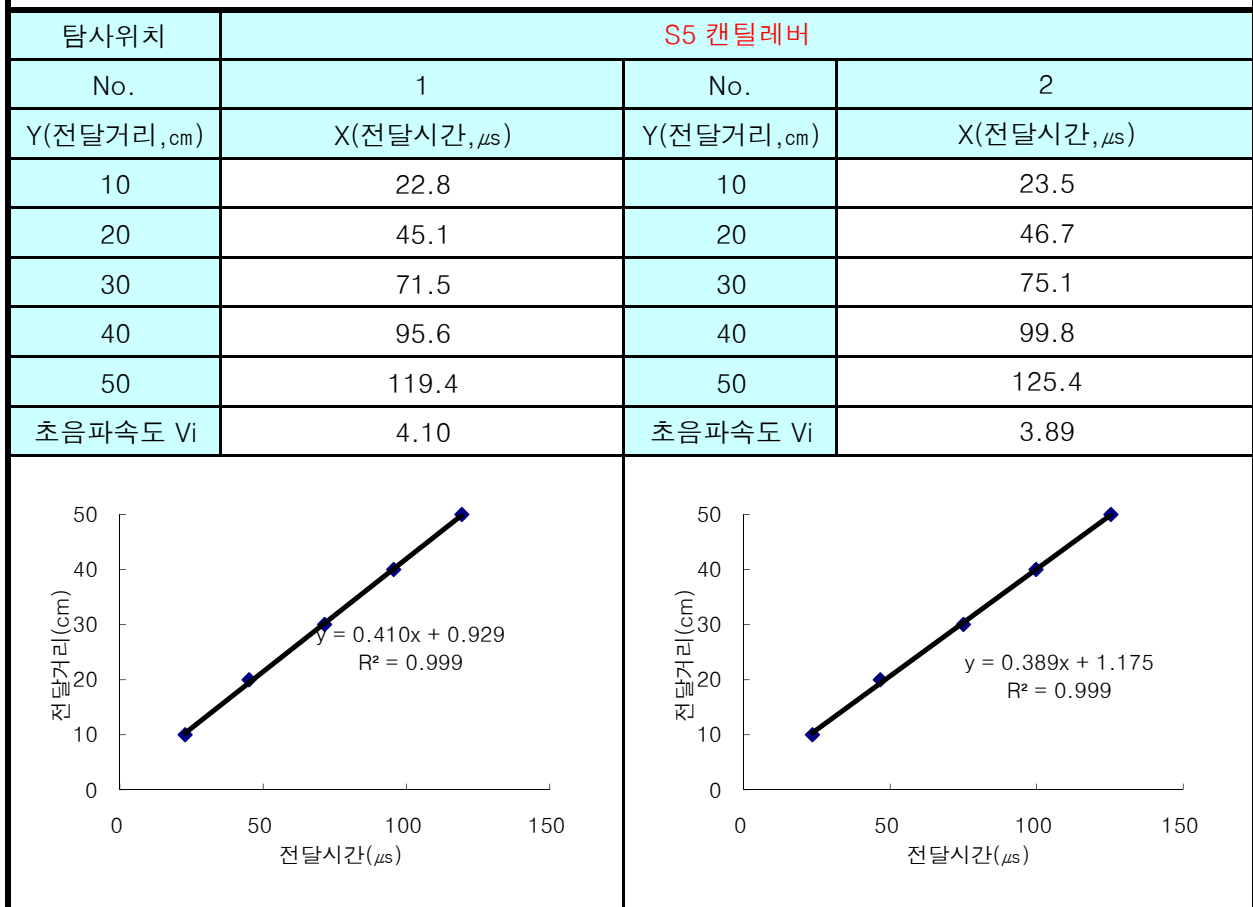
남천교(부산) 초음파탐사 4



남천교(부산) 초음파탐사 5



남천교(부산) 초음파탐사 6



남천교(부산) 초음파탐사 7

탐사위치	S6 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	24.3	10	25.2
20	50.2	20	48.6
30	77.6	30	75.1
40	102.1	40	98.2
50	123.8	50	125.4
초음파속도 Vi	3.98	초음파속도 Vi	4.00

$y = 0.397x - 0.077$
 $R^2 = 0.998$

$y = 0.399x + 0.219$
 $R^2 = 0.999$

남천교(부산) 초음파탐사 8

탐사위치	S7 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	22.7	10	24.2
20	45.6	20	47.5
30	72.5	30	75.1
40	94.6	40	98.6
50	118.4	50	125.4
초음파속도 Vi	4.16	초음파속도 Vi	3.94

$y = 0.415x + 0.588$
 $R^2 = 0.999$

$y = 0.394x + 0.765$
 $R^2 = 0.999$

남천교(부산) 초음파탐사 9

탐사위치	S8 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	23.2	10	26.1
20	47.8	20	48.2
30	72.6	30	75.9
40	94.5	40	98.5
50	121.6	50	126.4
초음파속도 Vi	4.10	초음파속도 Vi	3.98

$y = 0.410x + 0.478$
 $R^2 = 0.999$

$y = 0.398x + 0.144$
 $R^2 = 0.998$

남천교(부산) 초음파탐사 10

탐사위치	S9 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	20.7	10	22.1
20	43.6	20	46.1
30	67.8	30	73.8
40	91.5	40	97.1
50	117.4	50	125.3
초음파속도 Vi	4.14	초음파속도 Vi	3.88

$y = 0.414x + 1.748$
 $R^2 = 0.999$

$y = 0.388x + 1.710$
 $R^2 = 0.999$

남천교(부산) 초음파탐사 11

탐사위치	S10 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	24.8	10	24.1
20	50.9	20	46.3
30	76.4	30	74.2
40	99.5	40	97.1
50	123.2	50	125.8
초음파속도 Vi	4.07	초음파속도 Vi	3.93

Scatter plot for S10 Cantilever No. 1. The y-axis is '전달거리(cm)' (0 to 50) and the x-axis is '전달시간(μs)' (0 to 150). Five data points are plotted, showing a strong positive linear correlation. The regression equation is $y = 0.407x - 0.524$ and $R^2 = 0.999$.

Scatter plot for S10 Cantilever No. 2. The y-axis is '전달거리(cm)' (0 to 50) and the x-axis is '전달시간(μs)' (0 to 150). Five data points are plotted, showing a strong positive linear correlation. The regression equation is $y = 0.392x + 1.135$ and $R^2 = 0.998$.

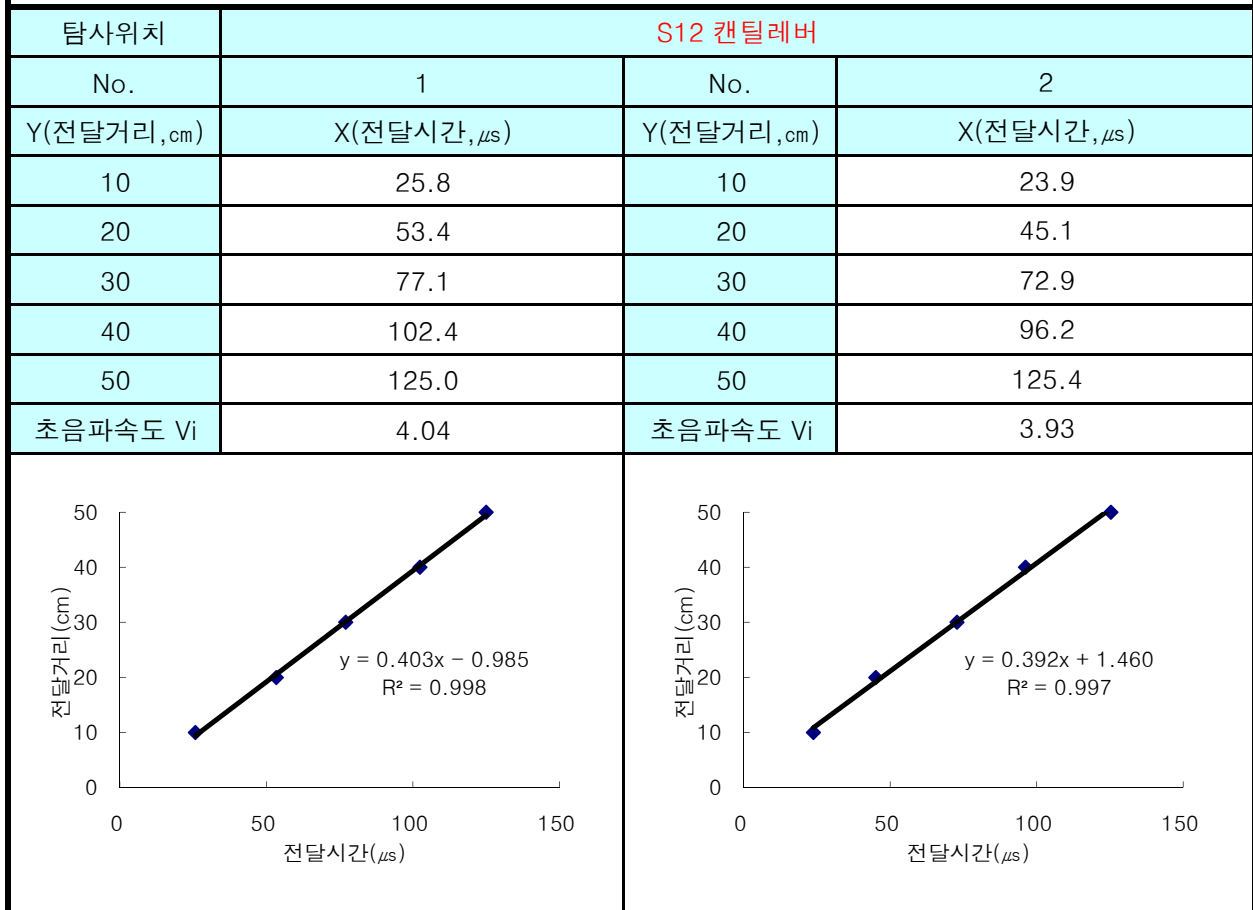
남천교(부산) 초음파탐사 12

탐사위치	S11 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	23.4	10	23.7
20	47.6	20	46.2
30	70.6	30	73.9
40	97.2	40	96.5
50	123.8	50	119.5
초음파속도 Vi	3.99	초음파속도 Vi	4.13

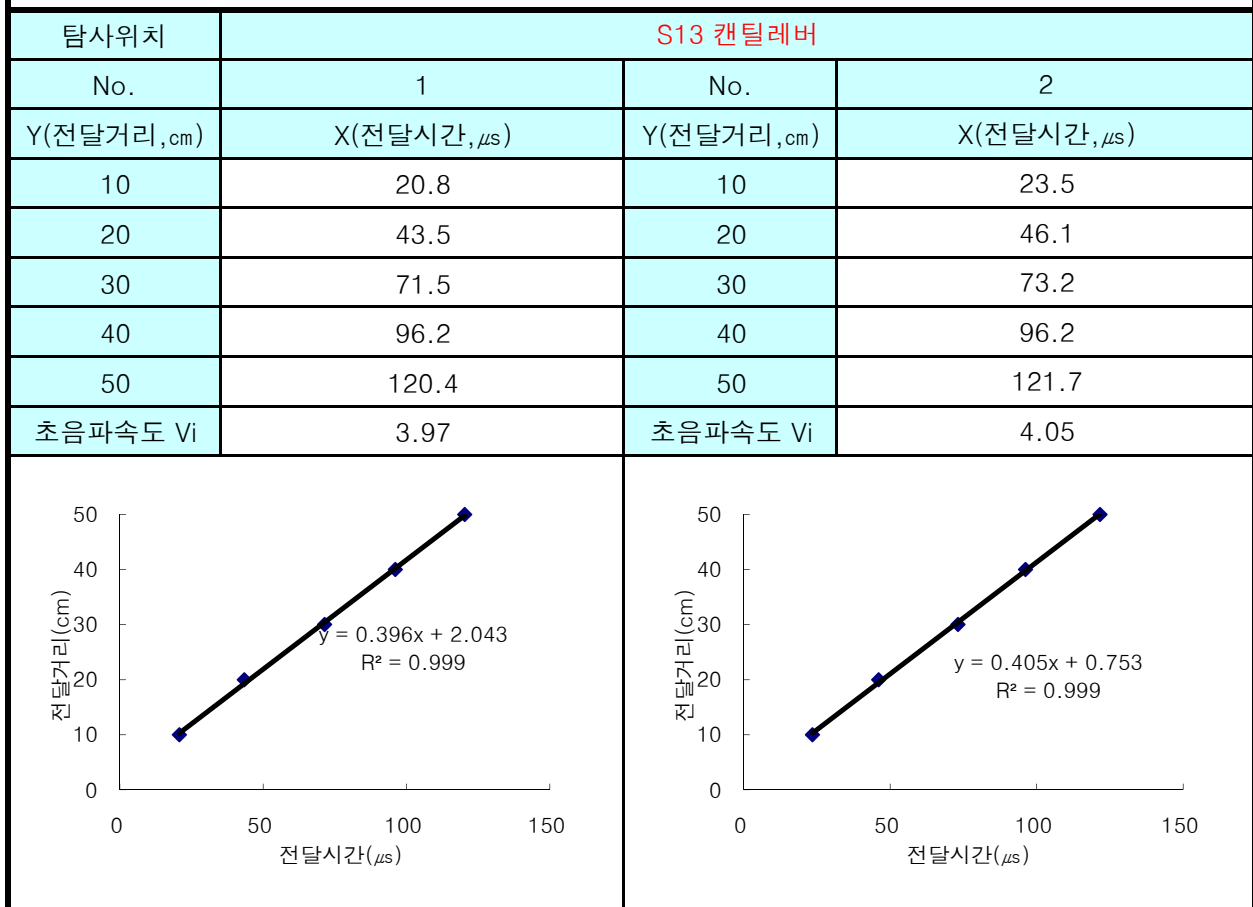
Scatter plot for S11 Cantilever No. 1. The y-axis is '전달거리(cm)' (0 to 50) and the x-axis is '전달시간(μs)' (0 to 150). Five data points are plotted, showing a strong positive linear correlation. The regression equation is $y = 0.399x + 1.066$ and $R^2 = 0.999$.

Scatter plot for S11 Cantilever No. 2. The y-axis is '전달거리(cm)' (0 to 50) and the x-axis is '전달시간(μs)' (0 to 150). Five data points are plotted, showing a strong positive linear correlation. The regression equation is $y = 0.412x + 0.288$ and $R^2 = 0.998$.

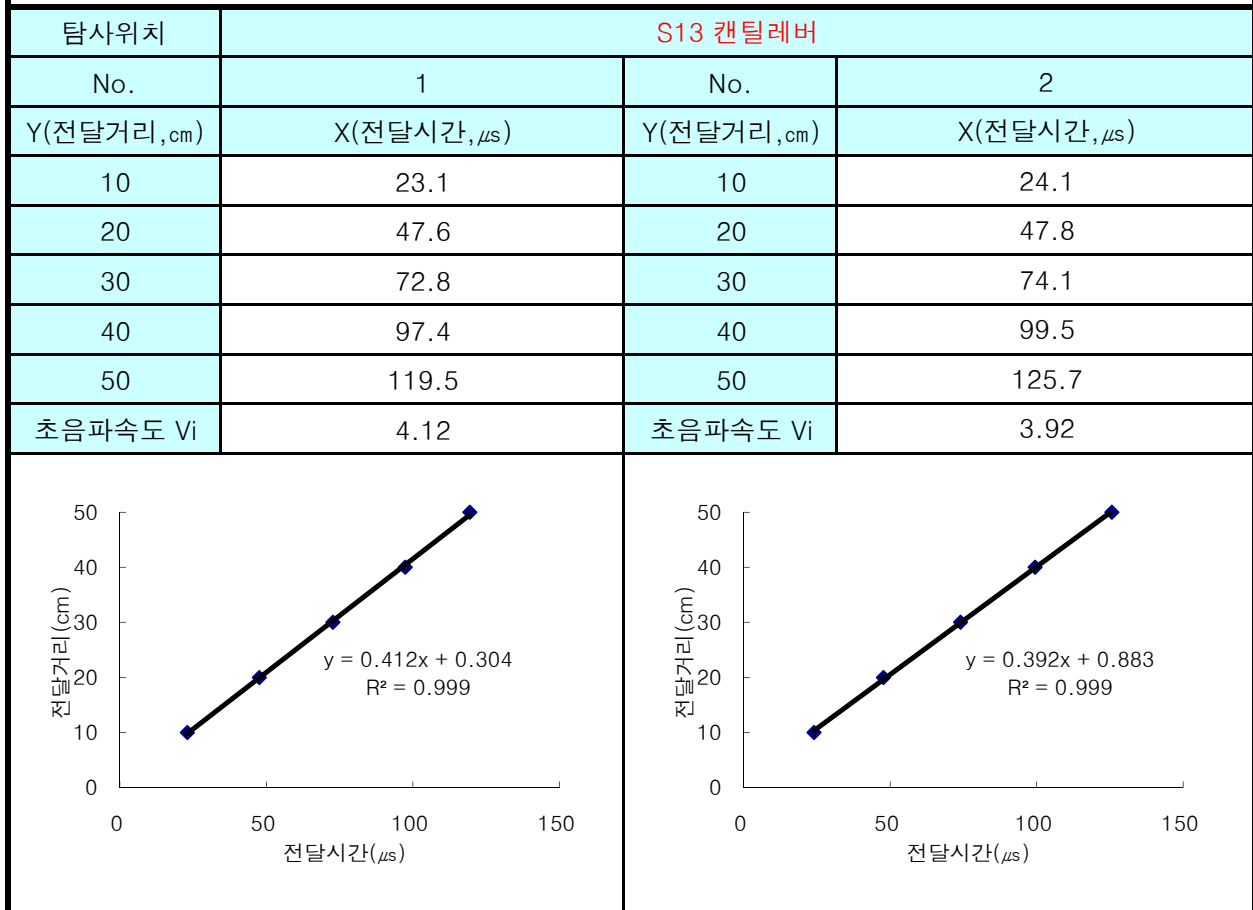
남천교(부산) 초음파탐사 13



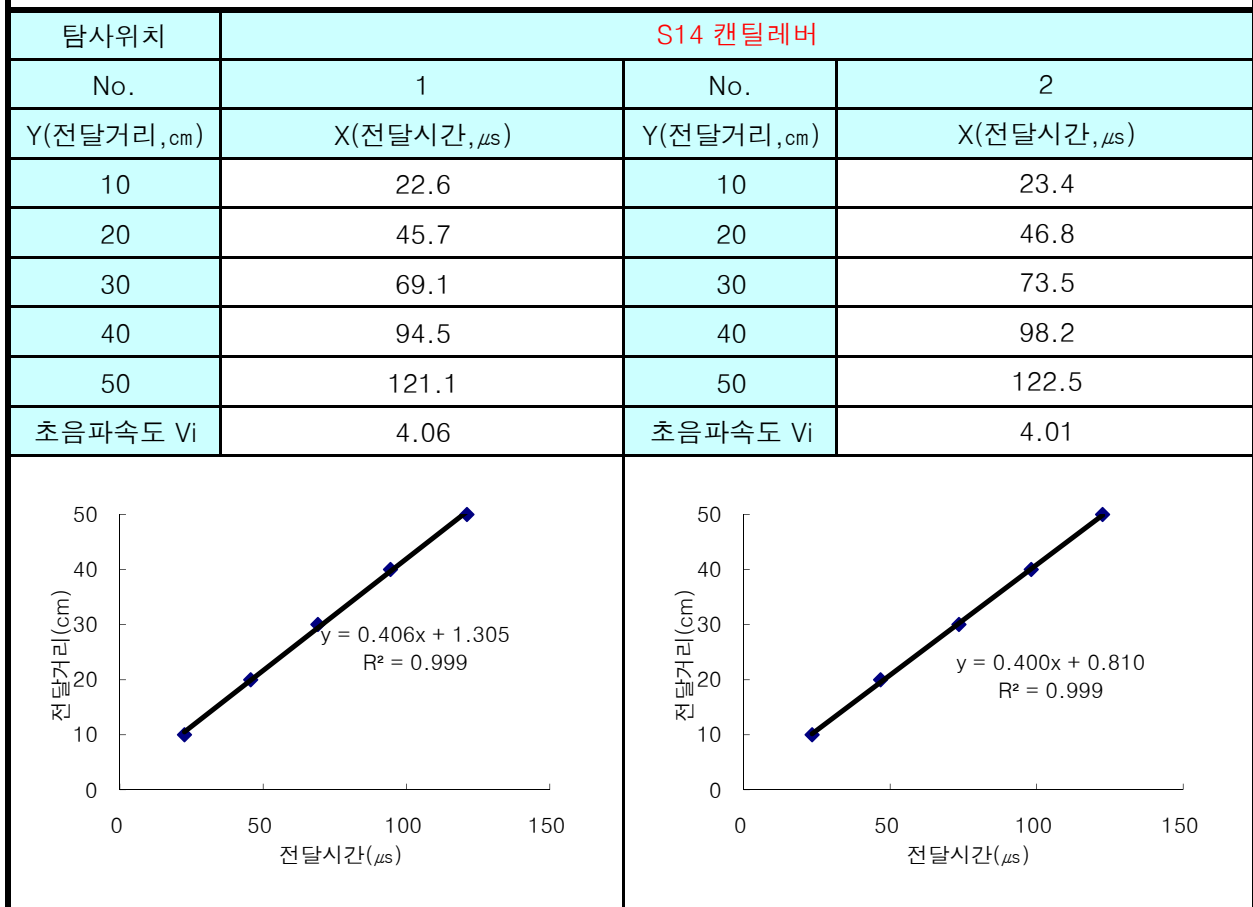
남천교(부산) 초음파탐사 14



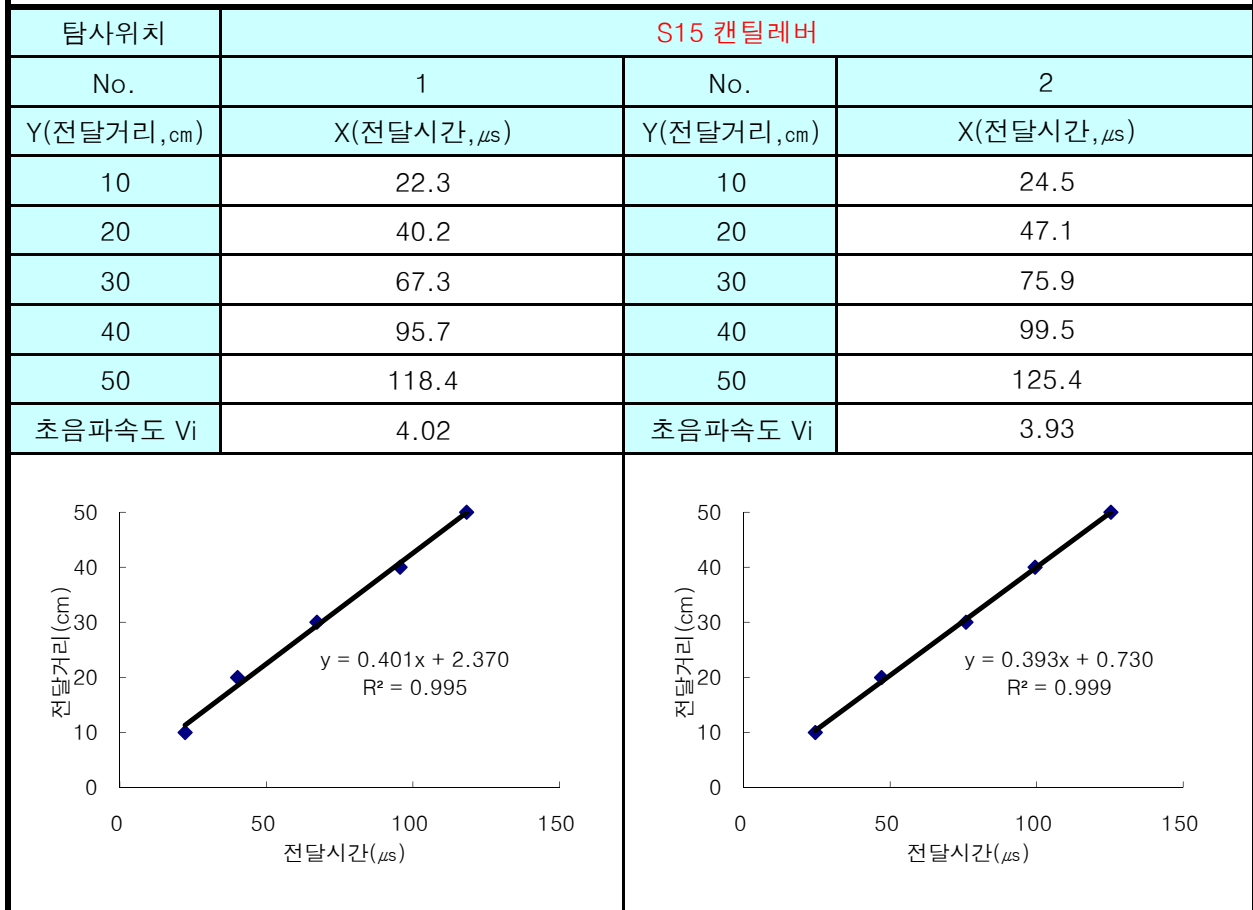
남천교(부산) 초음파탐사 15



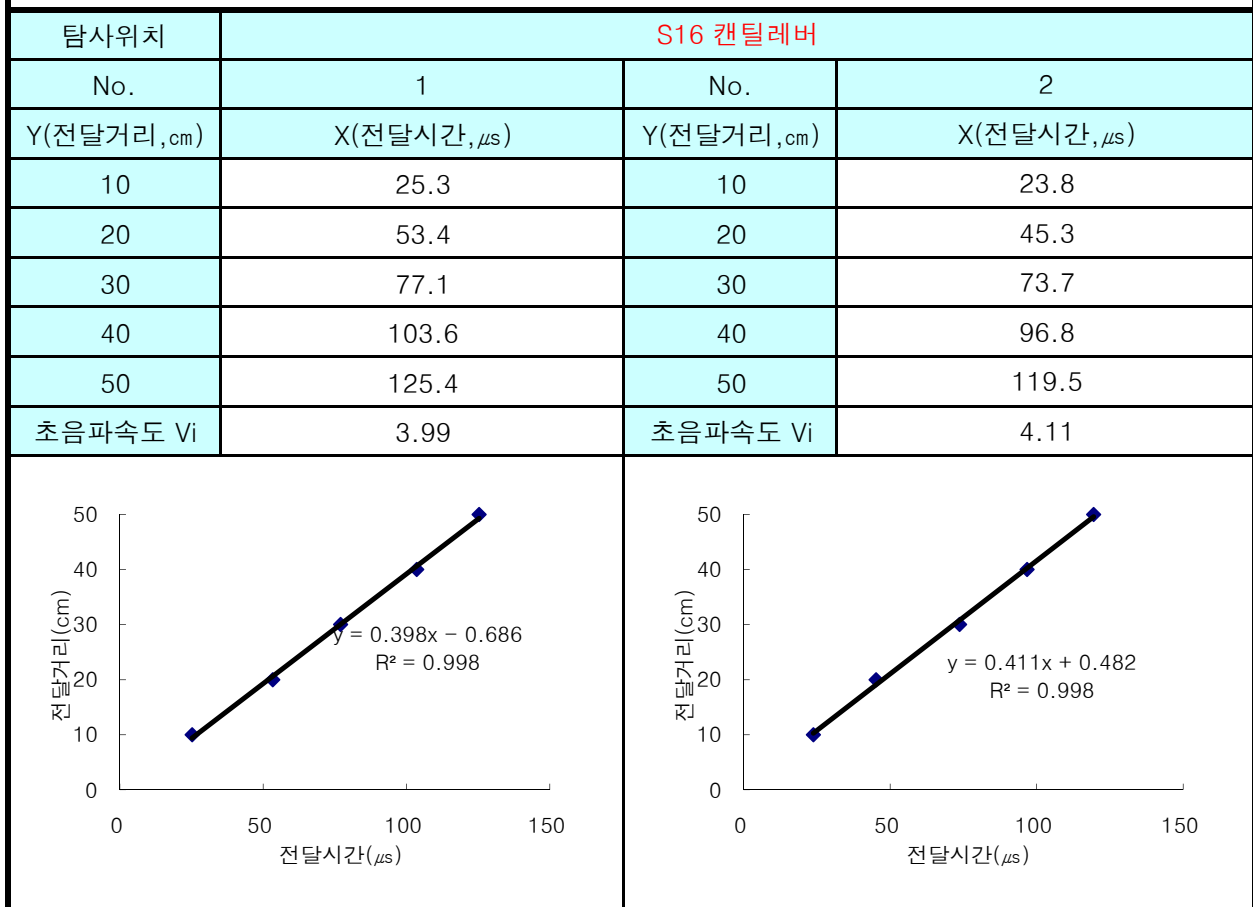
남천교(부산) 초음파탐사 16



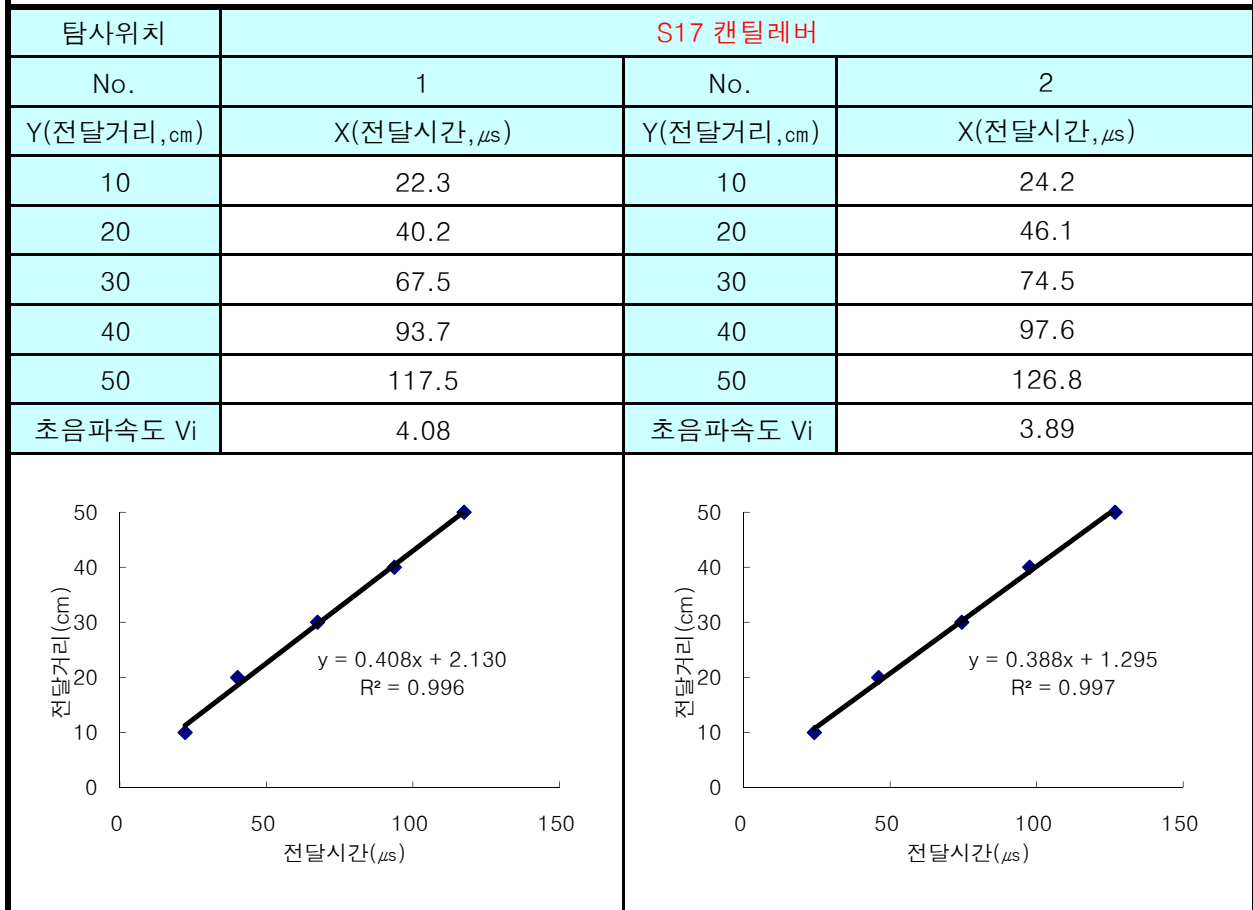
남천교(부산) 초음파탐사 17



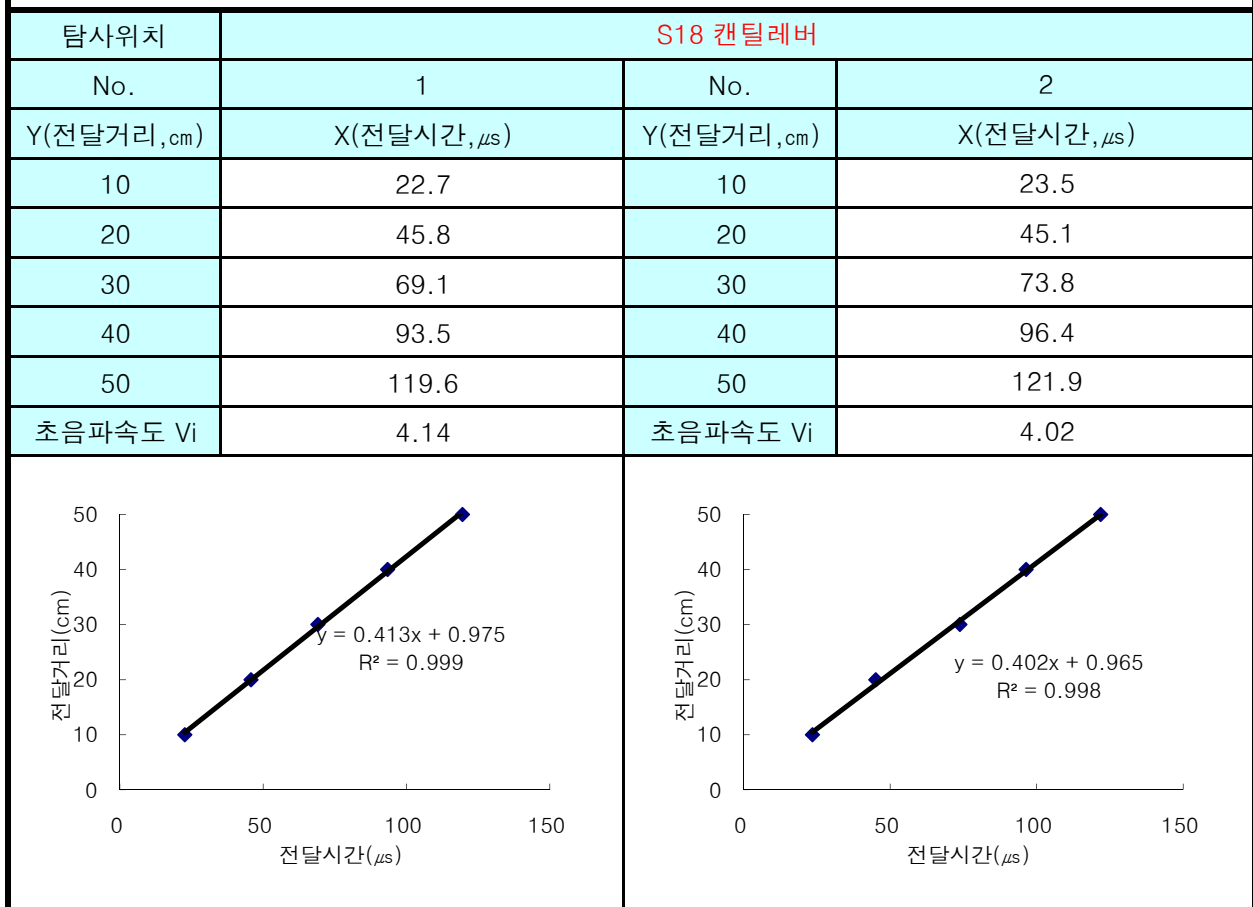
남천교(부산) 초음파탐사 18



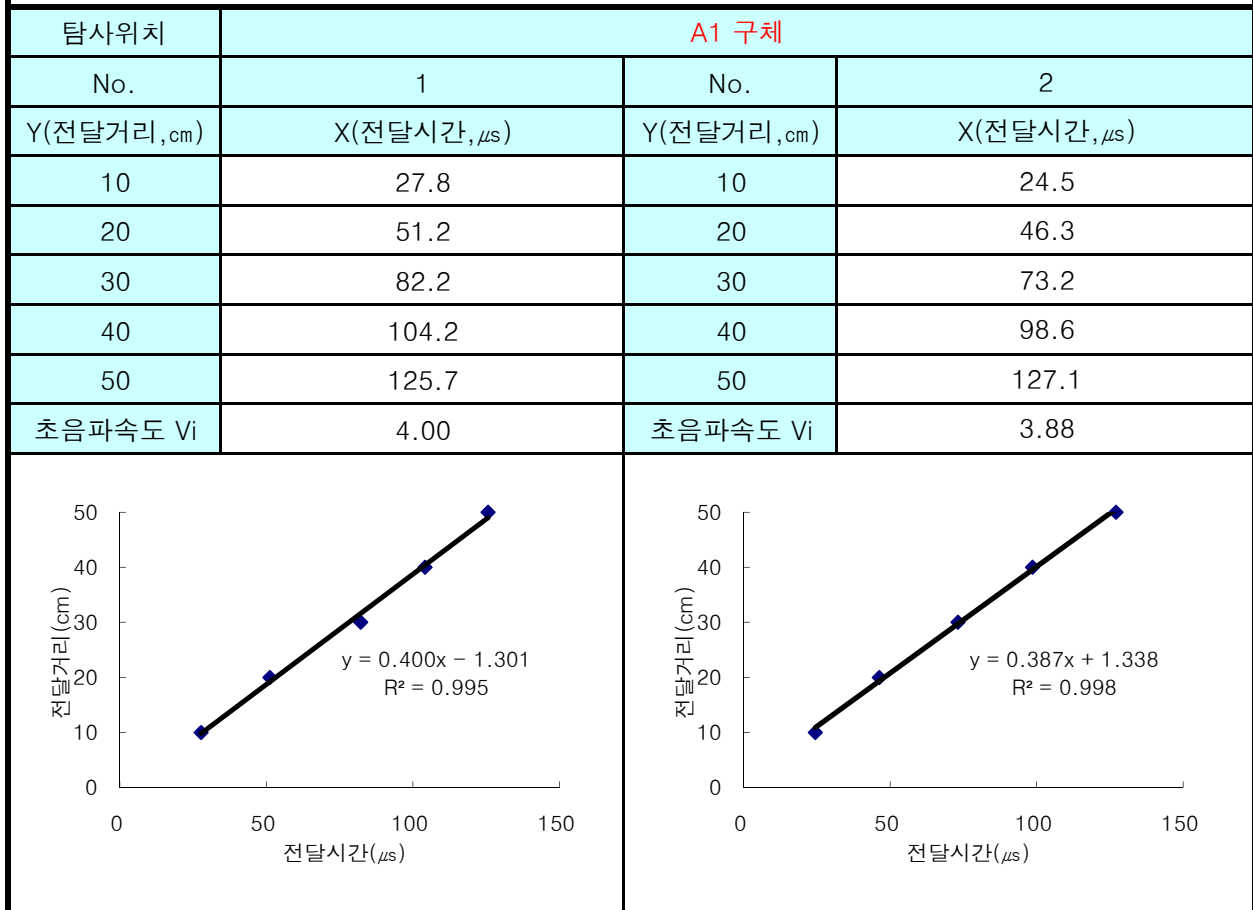
남천교(부산) 초음파탐사 19



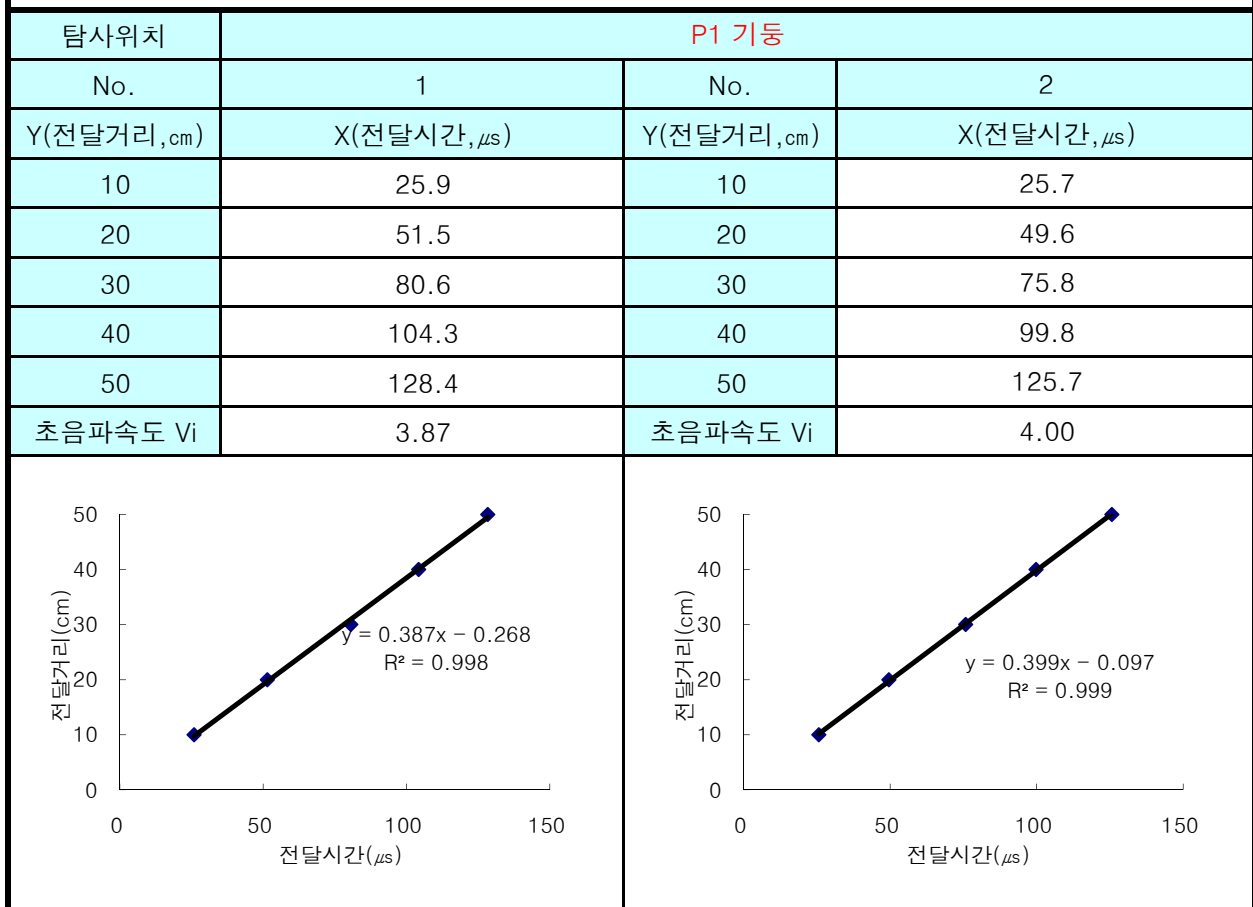
남천교(부산) 초음파탐사 20



남천교(부산) 초음파탐사 1



남천교(부산) 초음파탐사 2



남천교(부산) 초음파탐사 3

탐사위치	P1 기둥		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	25.9	10	25.1
20	49.5	20	53.6
30	77.4	30	78.5
40	103.9	40	103.2
50	128.3	50	129.7
초음파속도 Vi	3.86	초음파속도 Vi	3.86

$y = 0.385x + 0.312$
 $R^2 = 0.999$

$y = 0.386x - 0.127$
 $R^2 = 0.999$

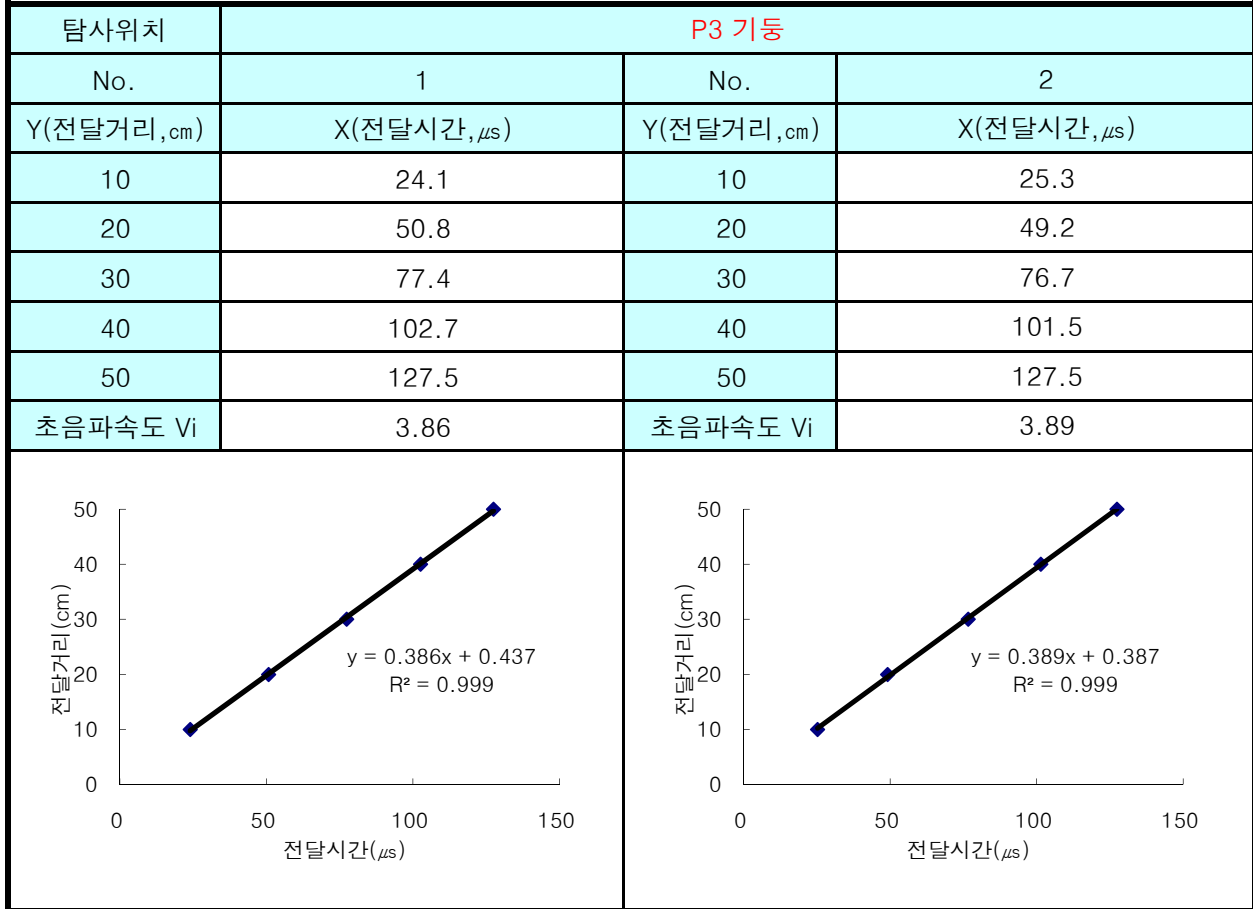
남천교(부산) 초음파탐사 4

탐사위치	P2 기둥		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	23.6	10	24.1
20	48.7	20	46.8
30	75.3	30	73.9
40	99.1	40	98.7
50	124.5	50	122.5
초음파속도 Vi	3.96	초음파속도 Vi	4.02

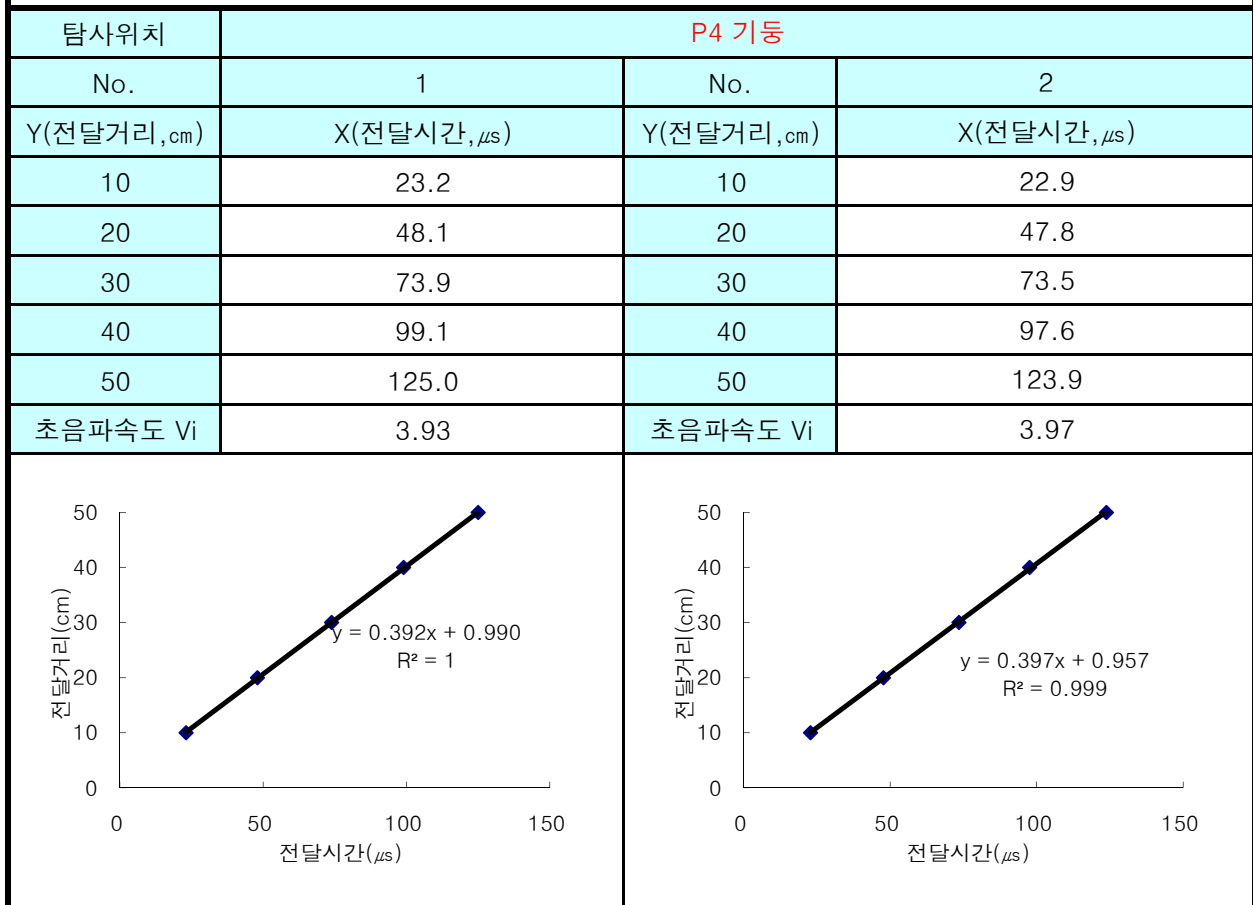
$y = 0.396x + 0.569$
 $R^2 = 0.999$

$y = 0.401x + 0.585$
 $R^2 = 0.999$

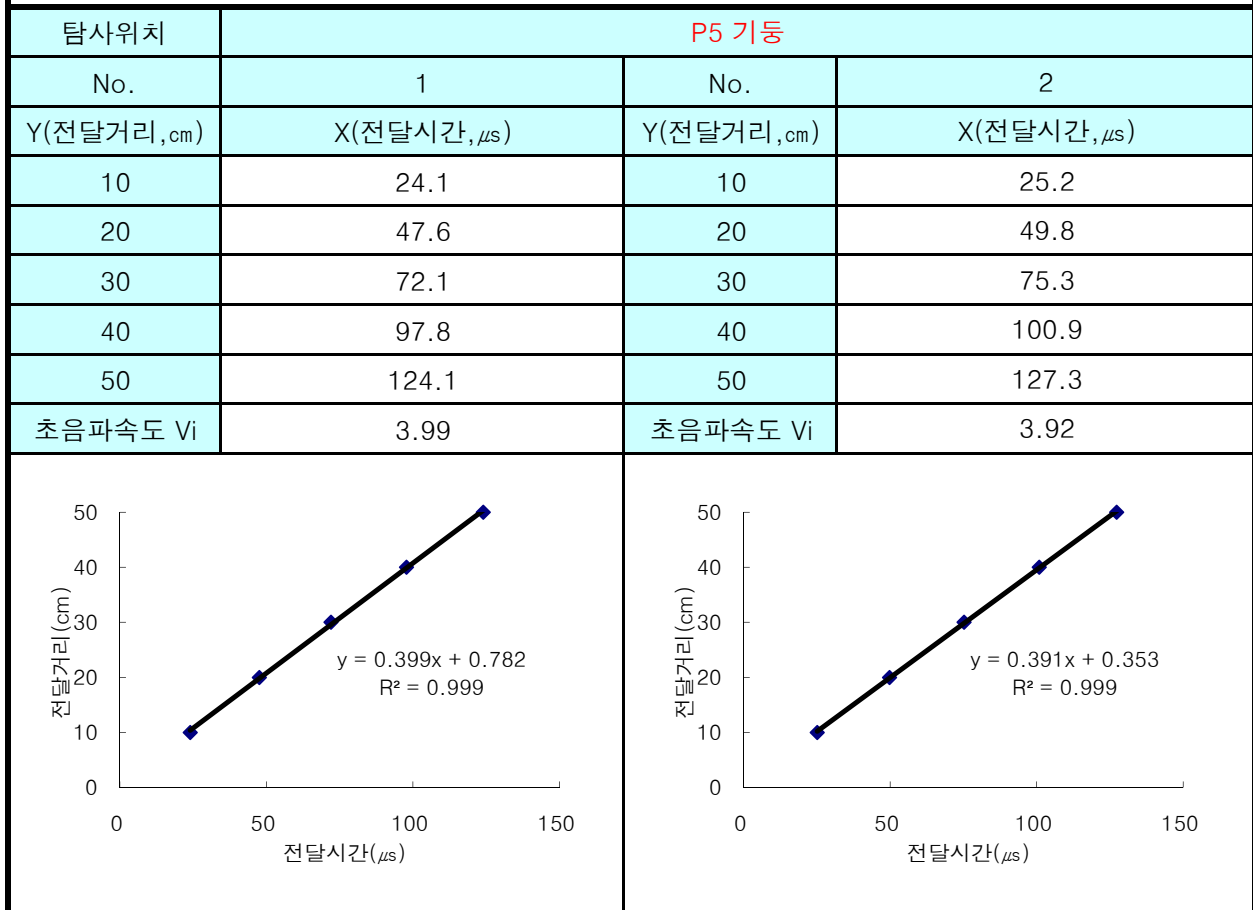
남천교(부산) 초음파탐사 5



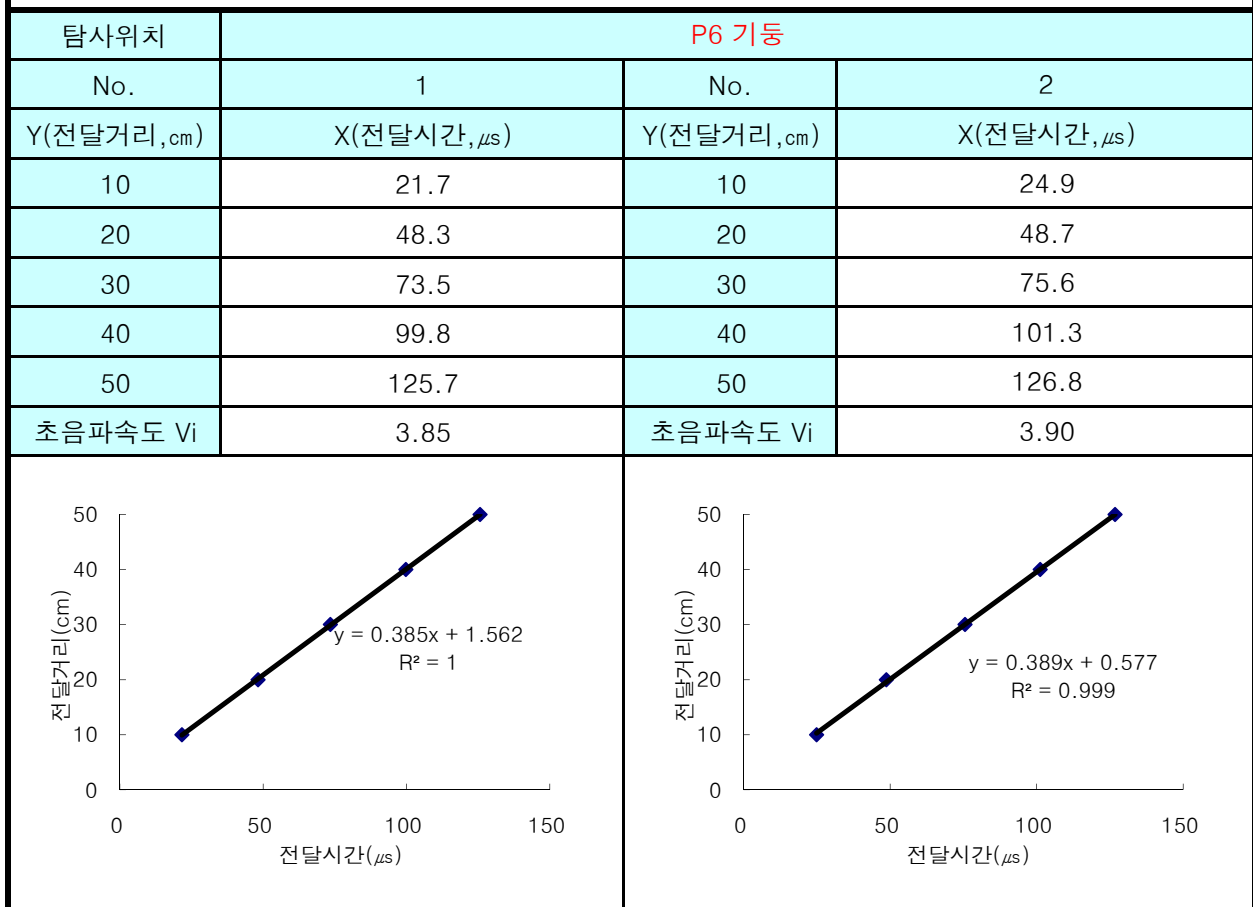
남천교(부산) 초음파탐사 6



남천교(부산) 초음파탐사 7



남천교(부산) 초음파탐사 8



남천교(부산) 초음파탐사 9

탐사위치	P7 기둥		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	25.8	10	26.1
20	53.4	20	53.7
30	78.6	30	78.5
40	101.5	40	102.7
50	128.4	50	128.5
초음파속도 Vi	3.94	초음파속도 Vi	3.94

$y = 0.394x - 0.585$
 $R^2 = 0.999$

$y = 0.393x - 0.678$
 $R^2 = 0.999$

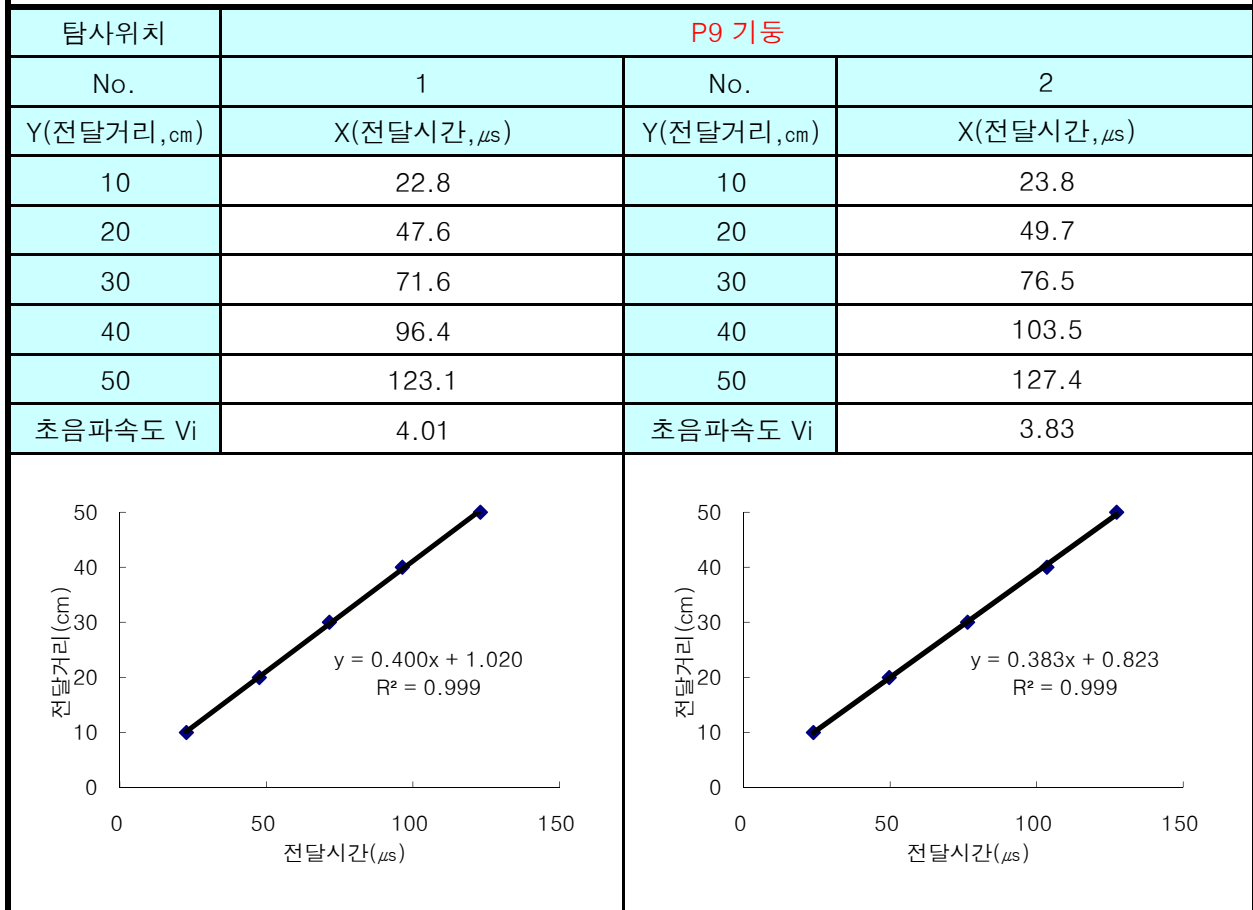
남천교(부산) 초음파탐사 10

탐사위치	P8 기둥		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	23.6	10	24.1
20	47.5	20	49.8
30	72.4	30	76.3
40	98.5	40	100.9
50	122.7	50	123.6
초음파속도 Vi	4.01	초음파속도 Vi	4.00

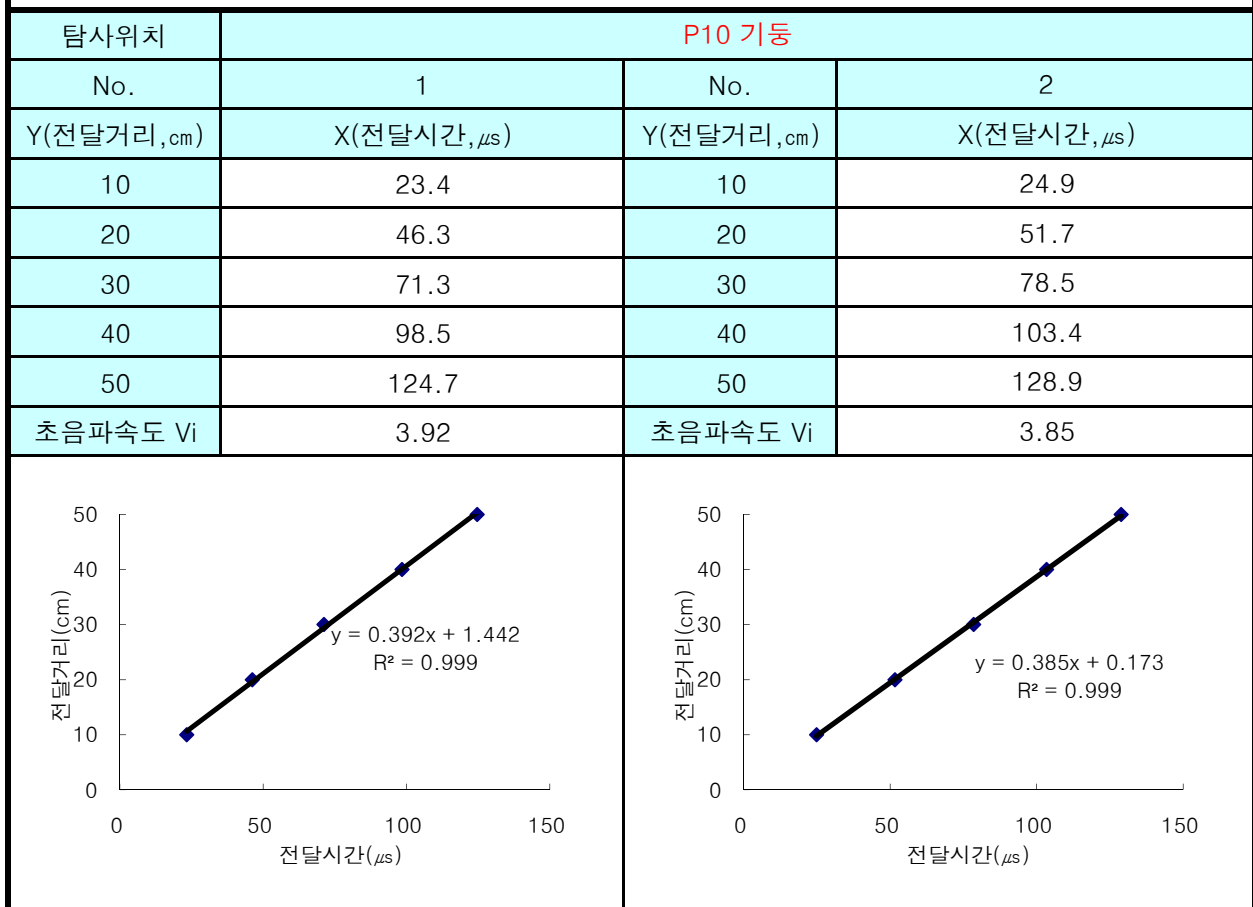
$y = 0.401x + 0.736$
 $R^2 = 0.999$

$y = 0.399x + 0.061$
 $R^2 = 0.999$

남천교(하행) 초음파 탐사 11



남천교(부산) 초음파탐사 12



남천교(부산) 초음파탐사 13

탐사위치	P11 기둥		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	23.6	10	24.2
20	48.7	20	45.8
30	73.6	30	72.9
40	100.9	40	99.8
50	124.3	50	125.4
초음파속도 Vi	3.94	초음파속도 Vi	3.89

$y = 0.394x + 0.745$
 $R^2 = 0.999$

$y = 0.389x + 1.327$
 $R^2 = 0.998$

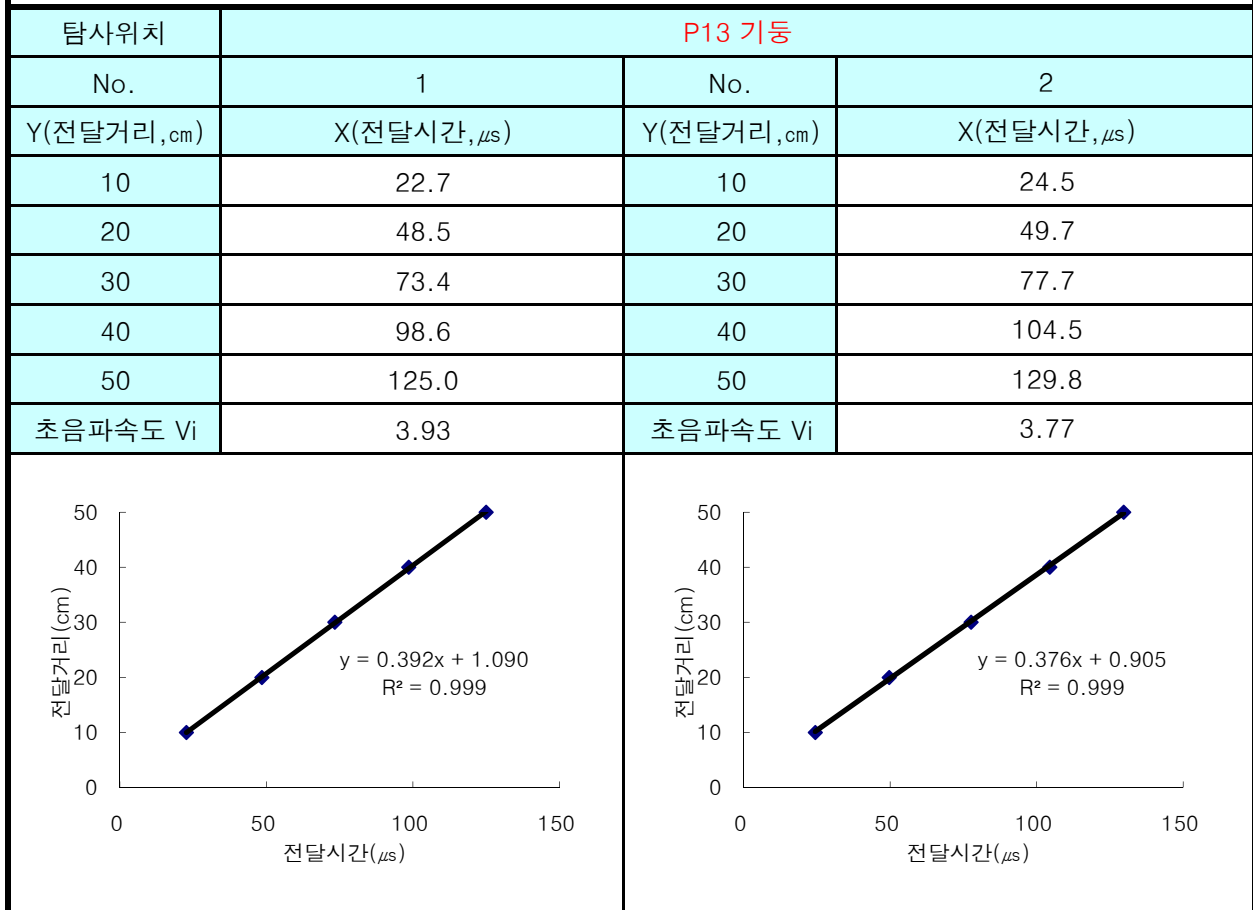
남천교(부산) 초음파탐사 14

탐사위치	P12 기둥		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	24.6	10	25.7
20	50.1	20	49.6
30	81.3	30	75.8
40	103.2	40	99.6
50	124.1	50	125.6
초음파속도 Vi	3.94	초음파속도 Vi	4.00

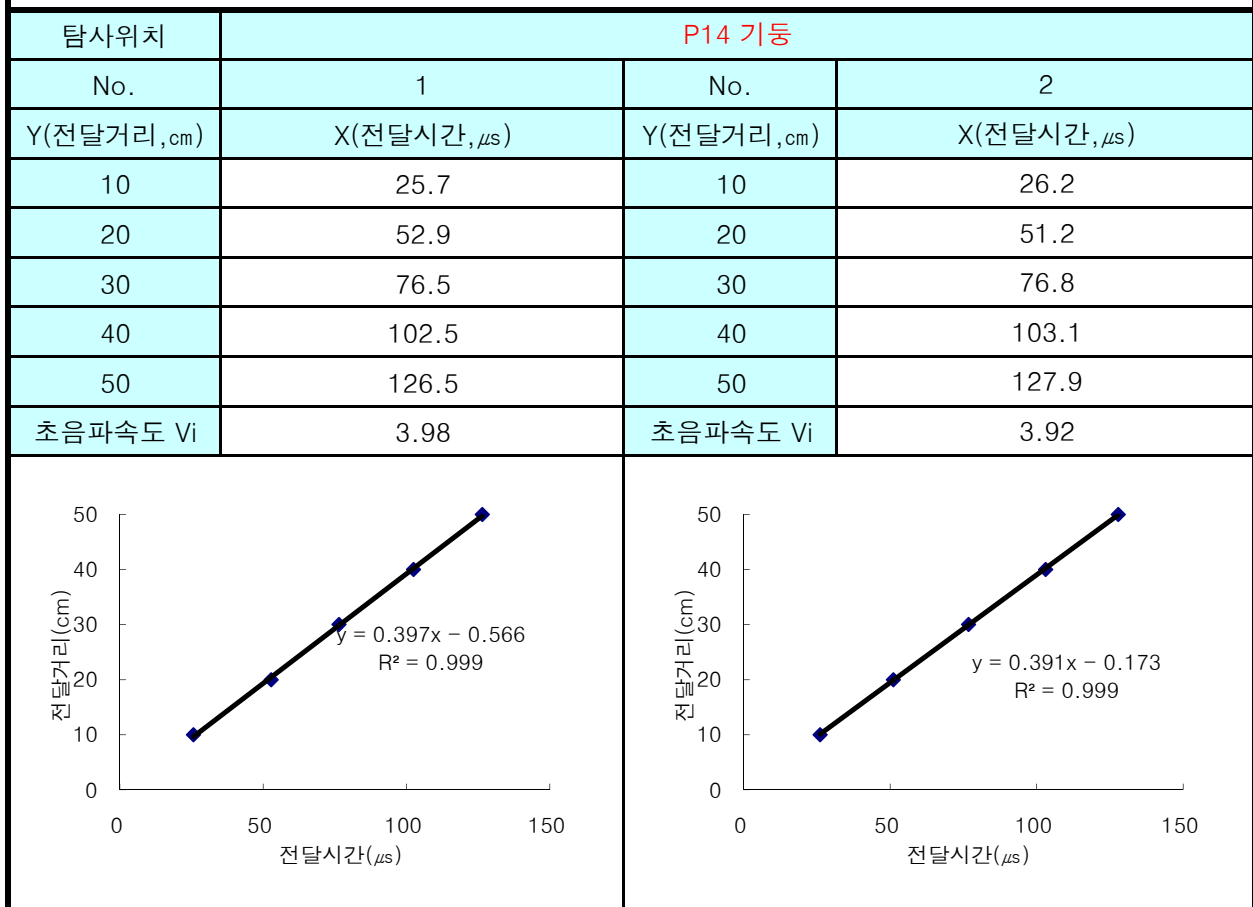
$y = 0.394x - 0.234$
 $R^2 = 0.994$

$y = 0.400x - 0.121$
 $R^2 = 0.999$

남천교(부산) 초음파탐사 15



남천교(부산) 초음파탐사 16



남천교(부산) 초음파탐사 17

탐사위치	P15 기둥			
No.	1	No.	2	
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)	
10	23.7	10	24.6	
20	48.1	20	48.1	
30	75.8	30	77.5	
40	101.1	40	101.5	
50	125.0	50	128.9	
초음파속도 Vi	3.91	초음파속도 Vi	3.81	

$y = 0.391x + 0.775$
 $R^2 = 0.999$

$y = 0.381x + 0.975$
 $R^2 = 0.999$

남천교(부산) 초음파탐사 18

탐사위치	P16 기둥			
No.	1	No.	2	
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)	
10	22.2	10	23.7	
20	49.8	20	49.8	
30	76.4	30	78.7	
40	102.5	40	103.5	
50	123.6	50	128.6	
초음파속도 Vi	3.90	초음파속도 Vi	3.79	

$y = 0.390x + 0.752$
 $R^2 = 0.997$

$y = 0.379x + 0.852$
 $R^2 = 0.999$

남천교(부산) 초음파탐사 19

탐사위치	P17 기둥		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	23.4	10	25.8
20	50.1	20	48.6
30	76.7	30	75.9
40	103.2	40	101.7
50	127.0	50	128.1
초음파속도 Vi	3.84	초음파속도 Vi	3.88

$y = 0.384x + 0.786$
 $R^2 = 0.999$

$y = 0.387x + 0.521$
 $R^2 = 0.999$

남천교(부산) 초음파탐사 20

탐사위치	A2 구체		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	21.8	10	25.6
20	45.9	20	49.8
30	71.4	30	76.4
40	98.6	40	100.7
50	124.6	50	129.6
초음파속도 Vi	3.87	초음파속도 Vi	3.86

$y = 0.387x + 1.959$
 $R^2 = 0.999$

$y = 0.385x + 0.509$
 $R^2 = 0.999$