

남천교(대구) 초음파탐사 1

탐사위치	S1 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	27.8	10	25.2
20	51.2	20	47.2
30	82.2	30	75.5
40	104.2	40	98.7
50	125.7	50	125.1
초음파속도 Vi	4.00	초음파속도 Vi	3.97

$y = 0.400x - 1.301$
 $R^2 = 0.995$

$y = 0.397x + 0.452$
 $R^2 = 0.998$

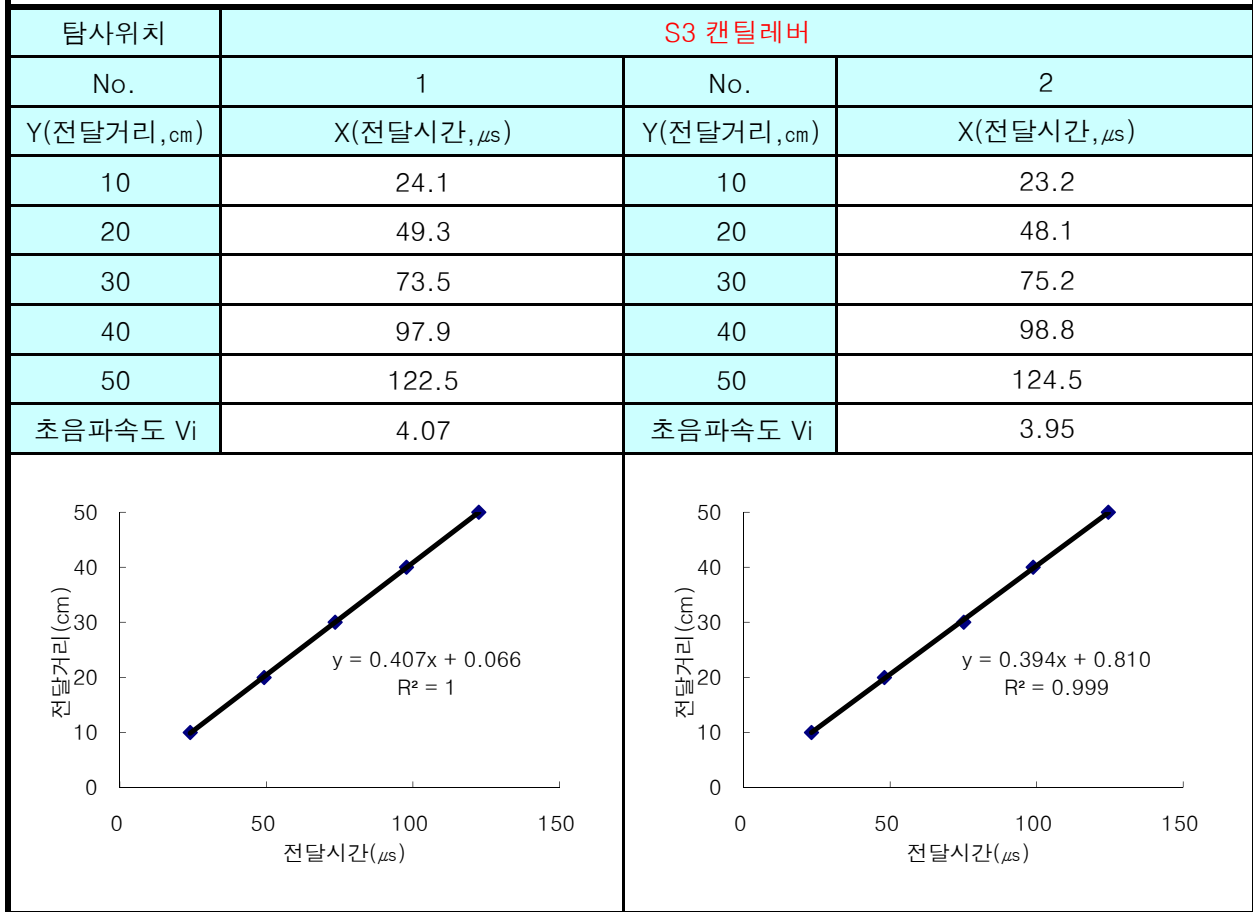
남천교(대구) 초음파탐사 2

탐사위치	S2 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	22.1	10	26.5
20	46.8	20	45.7
30	69.7	30	78.6
40	92.3	40	100.5
50	117.8	50	124.5
초음파속도 Vi	4.22	초음파속도 Vi	3.97

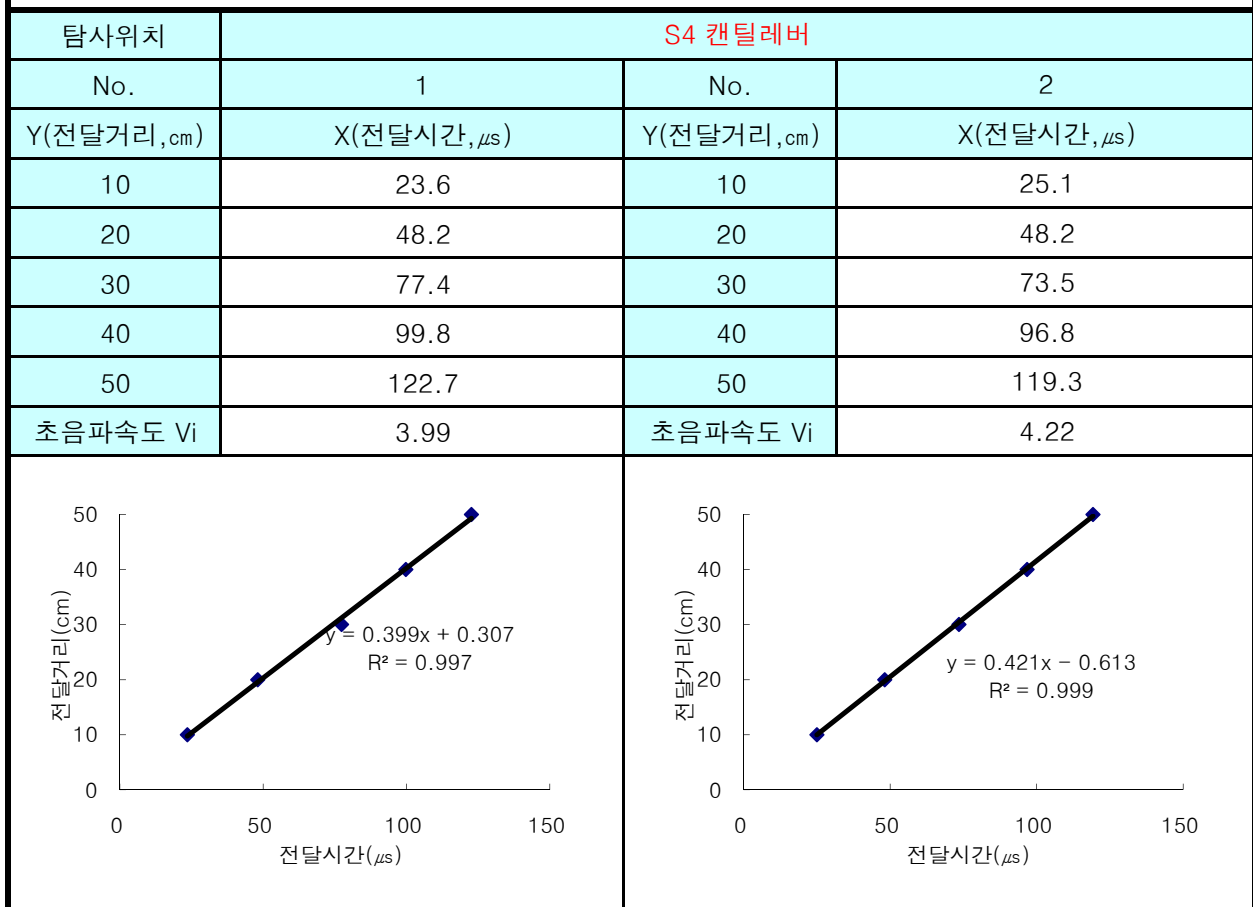
$y = 0.421x + 0.573$
 $R^2 = 0.999$

$y = 0.396x + 0.193$
 $R^2 = 0.994$

남천교(대구) 초음파탐사 3



남천교(대구) 초음파탐사 4



남천교(대구) 초음파탐사 5

탐사위치	S5 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	25.7	10	23.1
20	53.6	20	45.8
30	76.4	30	72.3
40	100.5	40	96.4
50	127.1	50	124.7
초음파속도 Vi	4.00	초음파속도 Vi	3.94

$y = 0.400x - 0.669$
 $R^2 = 0.999$

$y = 0.393x + 1.484$
 $R^2 = 0.998$

남천교(대구) 초음파탐사 6

탐사위치	S6 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	20.9	10	22.1
20	42.5	20	46.7
30	65.1	30	71.8
40	90.5	40	96.4
50	119.6	50	119.5
초음파속도 Vi	4.06	초음파속도 Vi	4.09

$y = 0.405x + 2.510$
 $R^2 = 0.996$

$y = 0.408x + 0.844$
 $R^2 = 0.999$

남천교(대구) 초음파탐사 7

탐사위치	S7 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	25.3	10	24.8
20	51.3	20	47.1
30	74.2	30	76.2
40	95.8	40	99.3
50	125.7	50	127.2
초음파속도 Vi	4.07	초음파속도 Vi	3.88

$y = 0.406x - 0.269$
 $R^2 = 0.997$

$y = 0.388x + 0.893$
 $R^2 = 0.998$

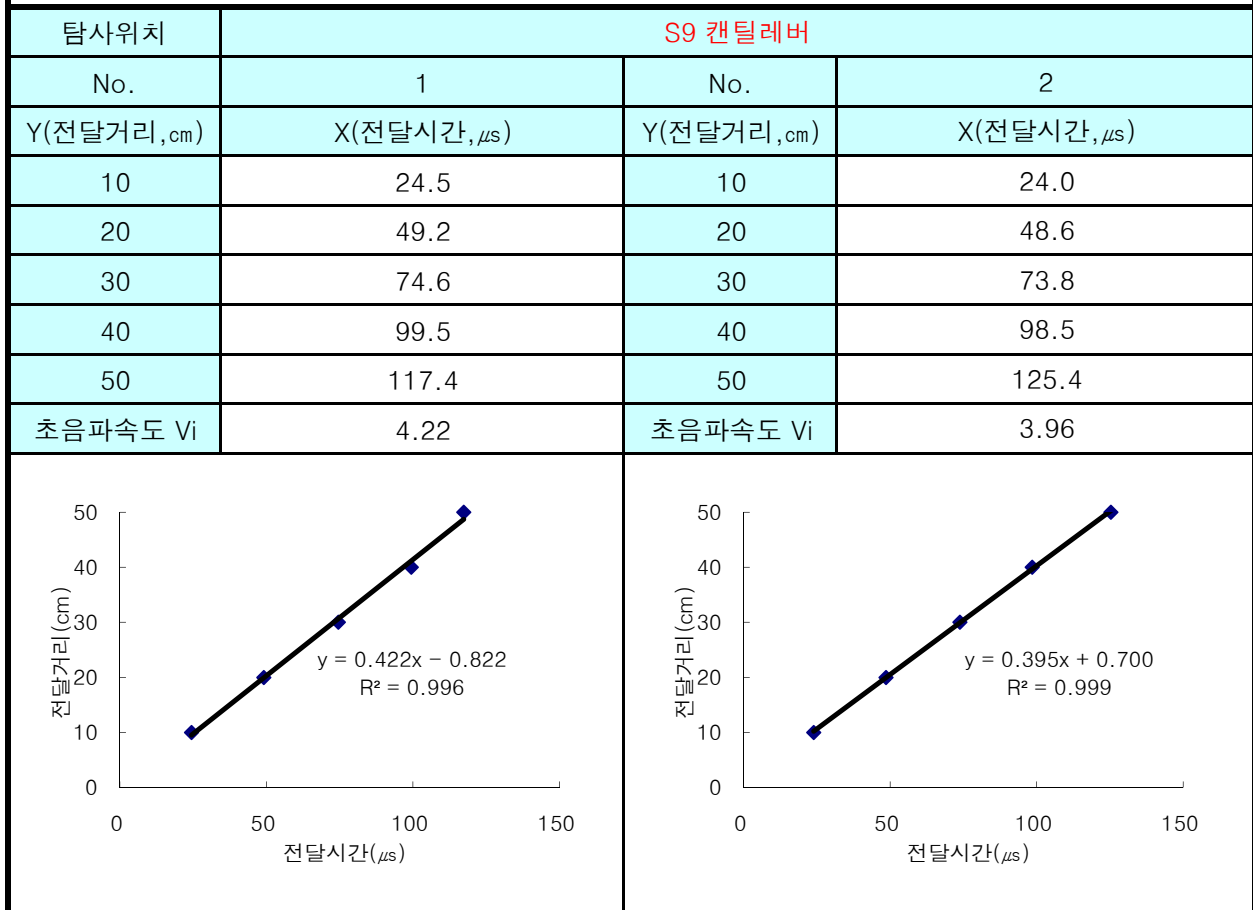
남천교(대구) 초음파탐사 8

탐사위치	S8 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	22.8	10	23.2
20	45.7	20	46.1
30	68.1	30	73.2
40	93.5	40	96.4
50	120.2	50	119.7
초음파속도 Vi	4.12	초음파속도 Vi	4.11

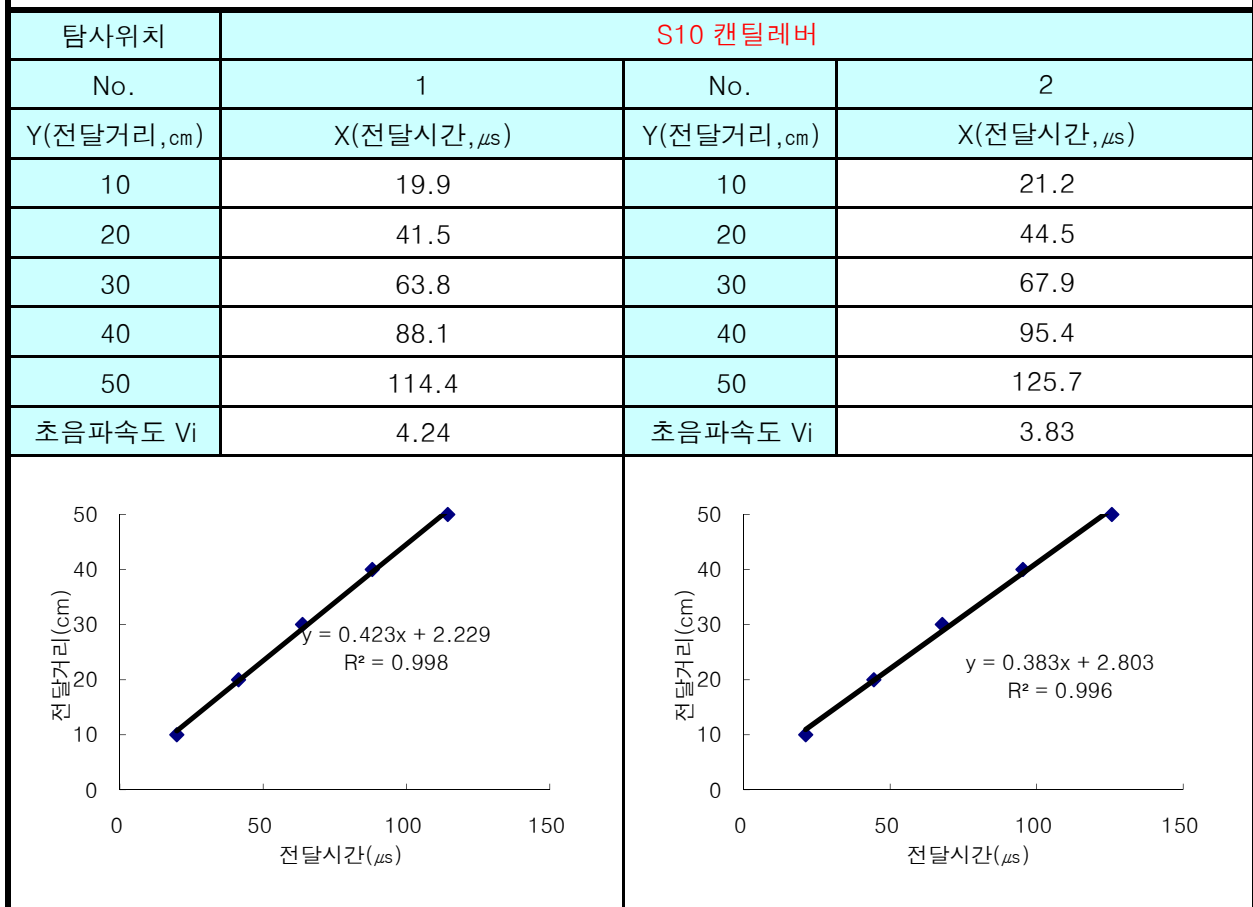
$y = 0.411x + 1.164$
 $R^2 = 0.998$

$y = 0.410x + 0.544$
 $R^2 = 0.999$

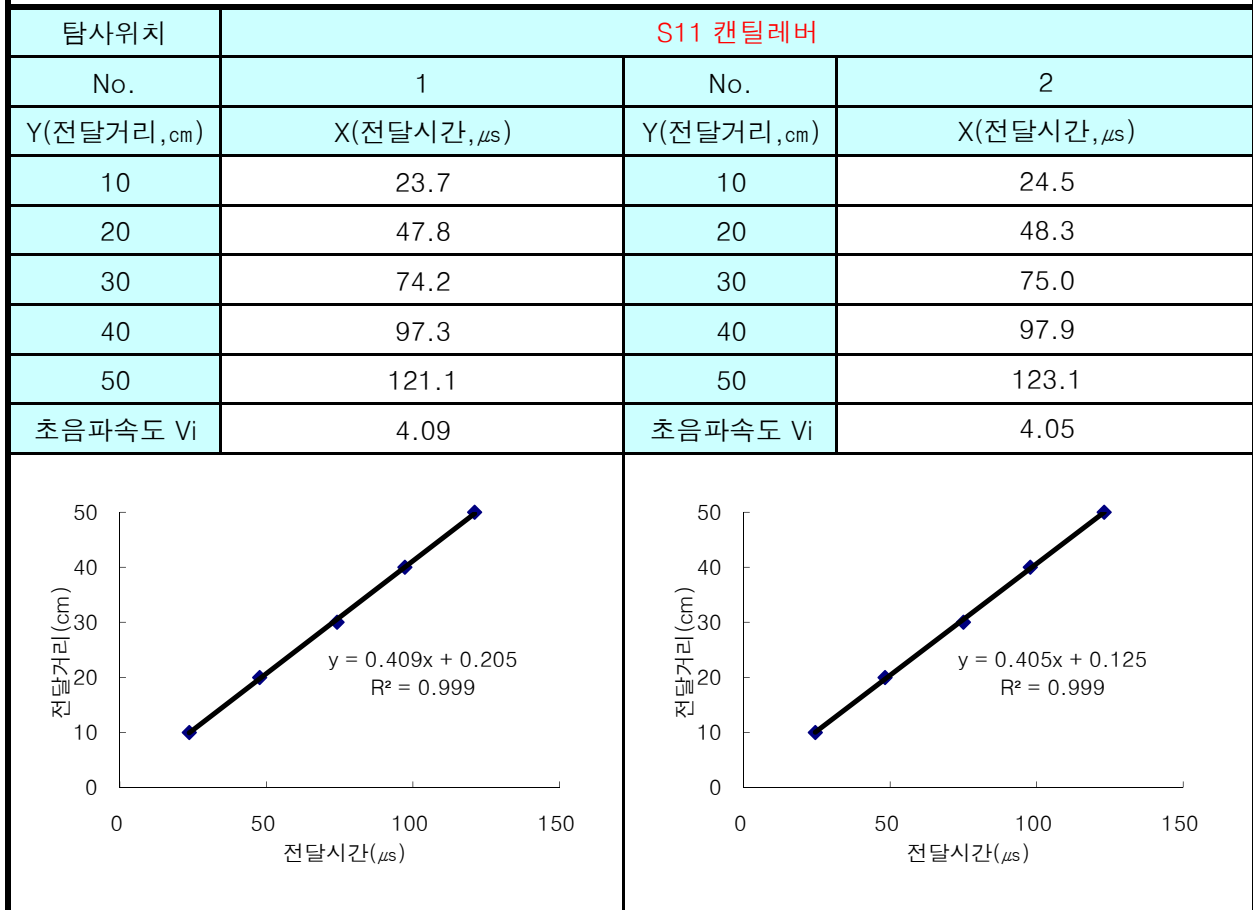
남천교(대구) 초음파탐사 9



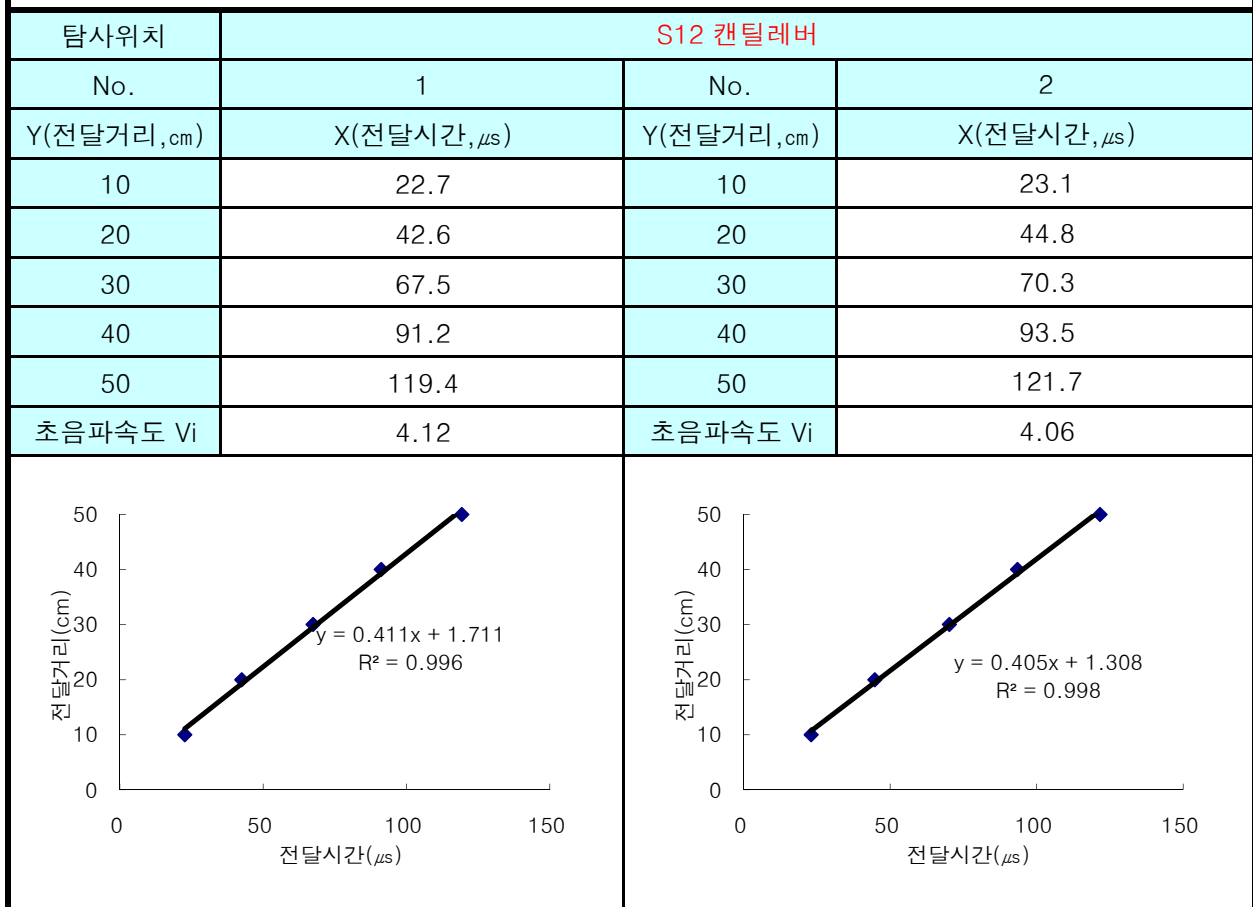
남천교(대구) 초음파탐사 10



남천교(대구) 초음파탐사 11



남천교(대구) 초음파탐사 12



남천교(대구) 초음파탐사 13

탐사위치	S13 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	26.4	10	25.8
20	51.8	20	50.7
30	73.6	30	71.1
40	102.8	40	100.9
50	125.7	50	122.4
초음파속도 Vi	4.00	초음파속도 Vi	4.10

$y = 0.4x - 0.424$
 $R^2 = 0.998$

$y = 0.409x - 0.393$
 $R^2 = 0.997$

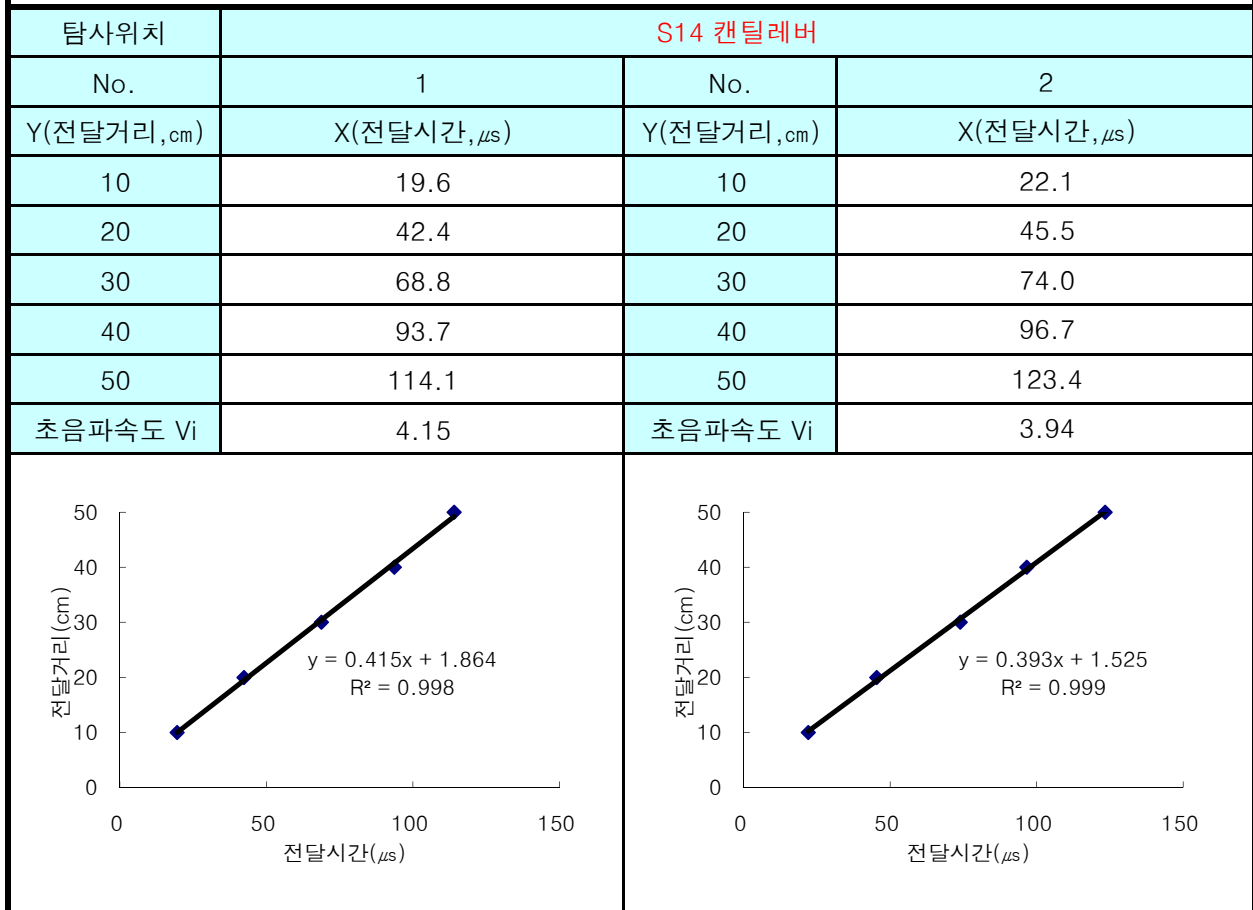
남천교(대구) 초음파탐사 14

탐사위치	S13 캔틸레버		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	21.8	10	22.7
20	43.7	20	45.6
30	69.2	30	73.1
40	95.4	40	96.2
50	121.1	50	121.8
초음파속도 Vi	3.99	초음파속도 Vi	4.02

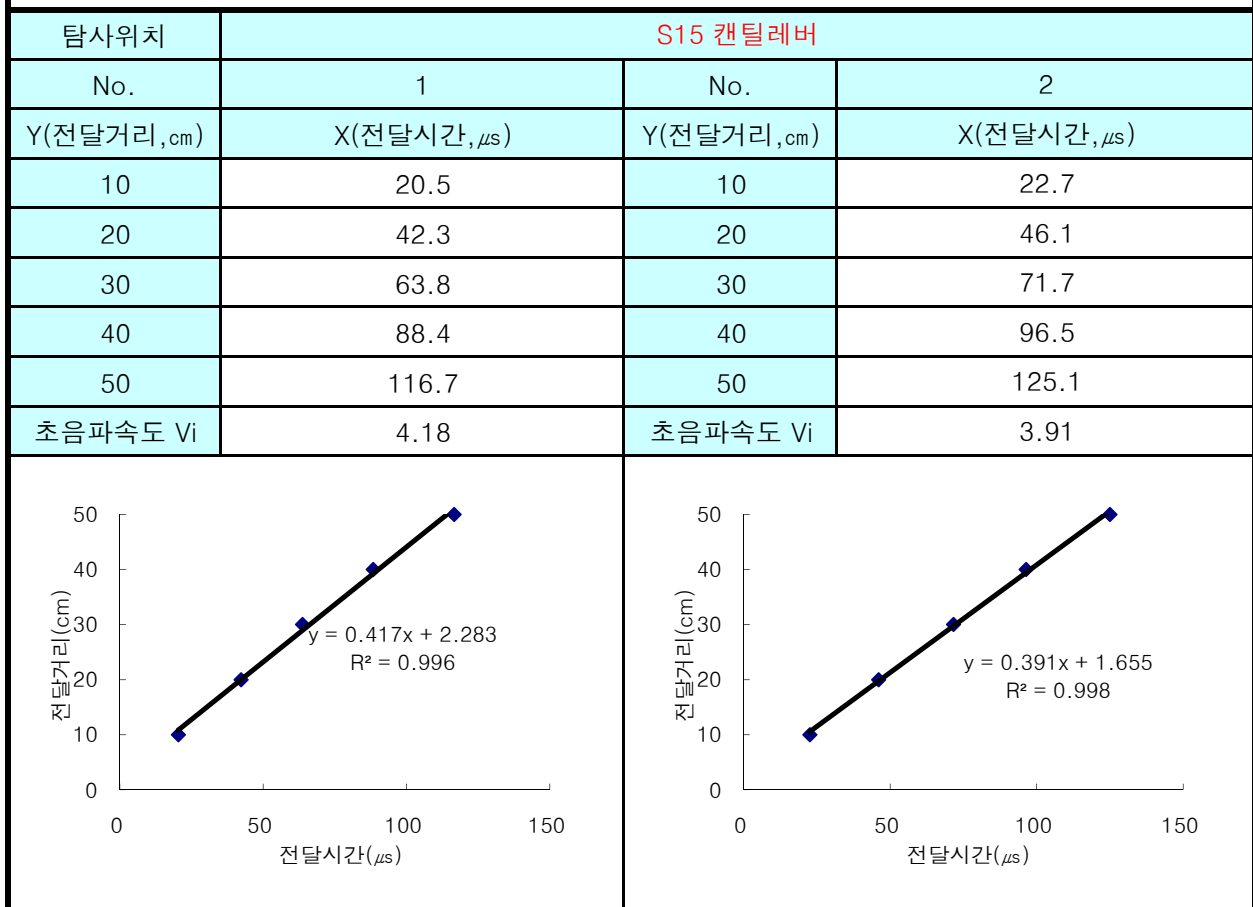
$y = 0.399x + 1.967$
 $R^2 = 0.998$

$y = 0.401x + 1.128$
 $R^2 = 0.999$

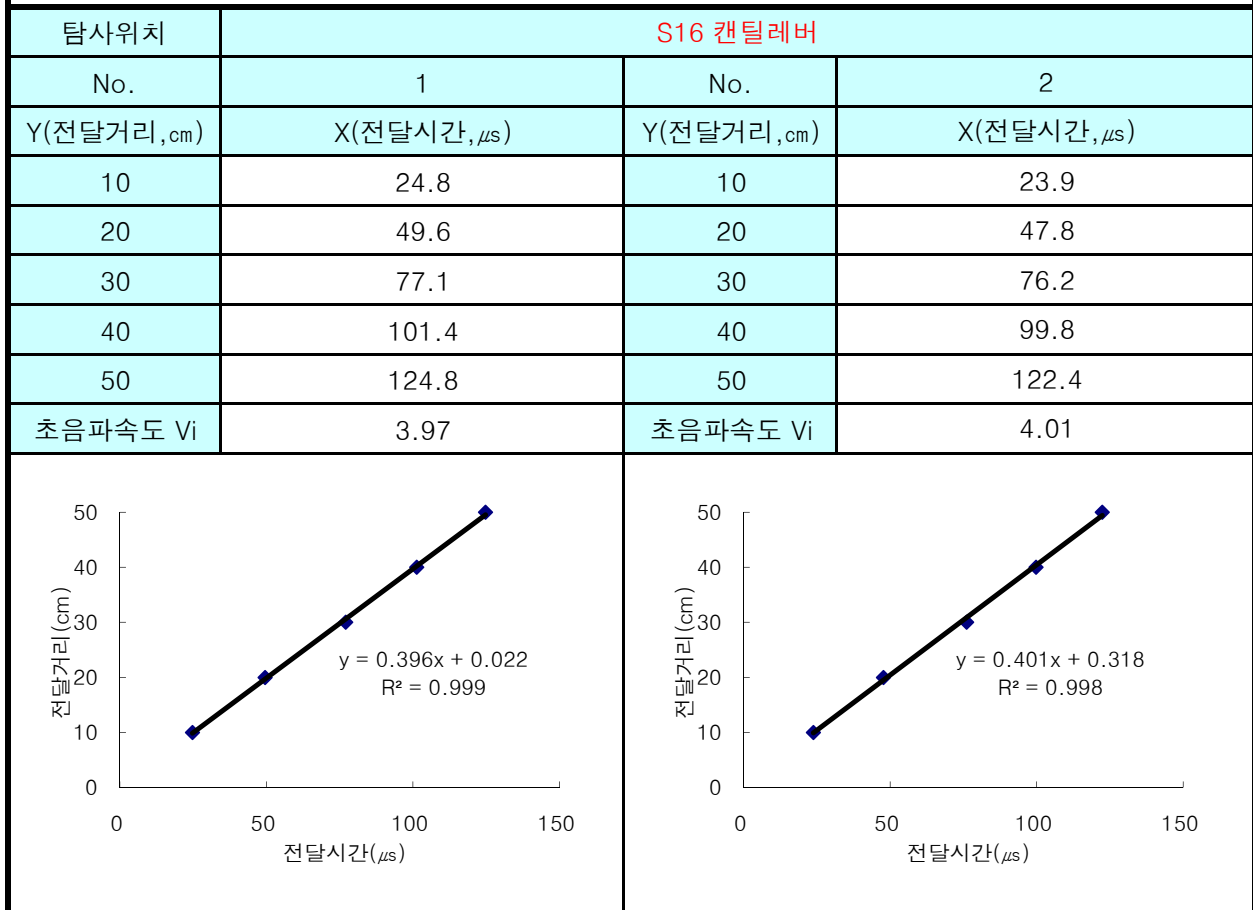
남천교(대구) 초음파탐사 15



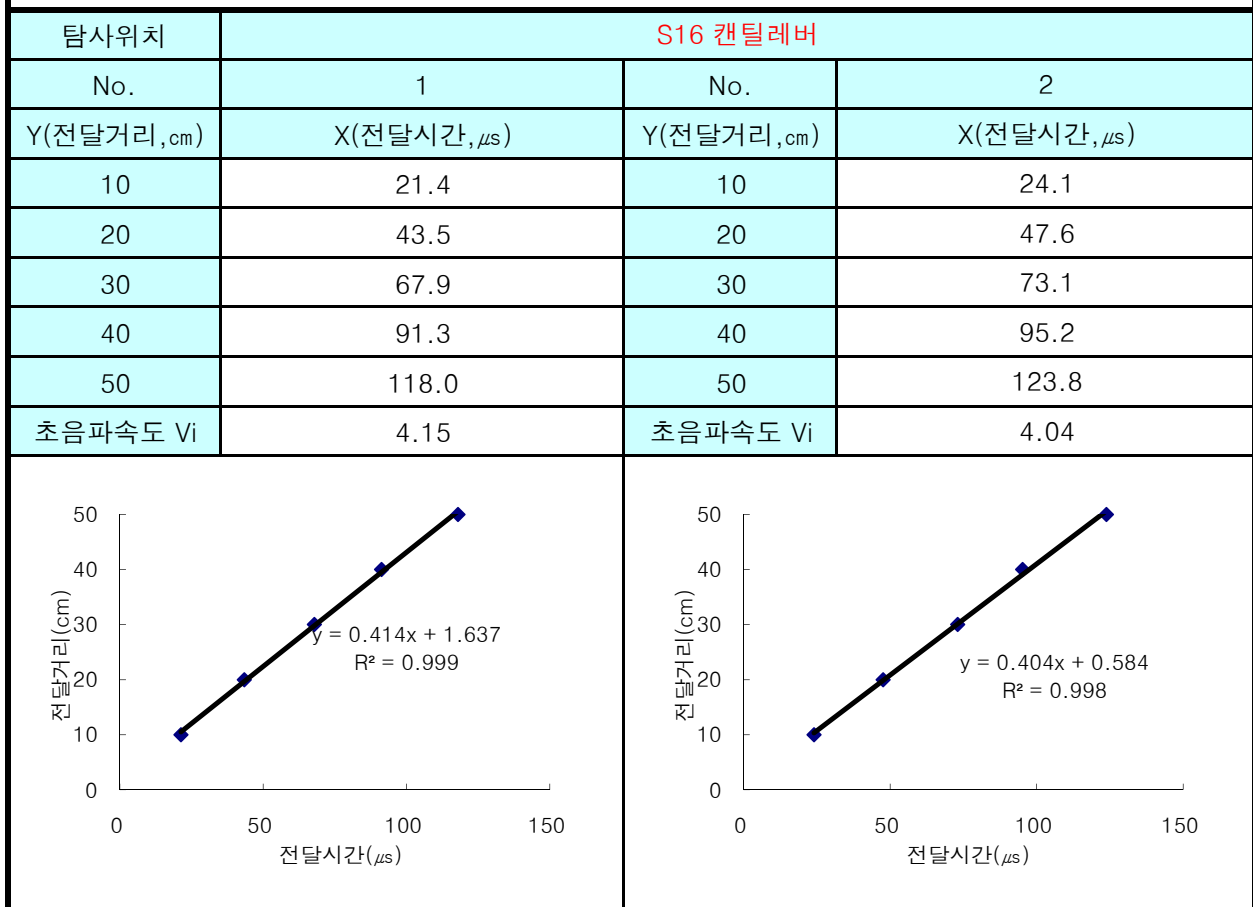
남천교(대구) 초음파탐사 16



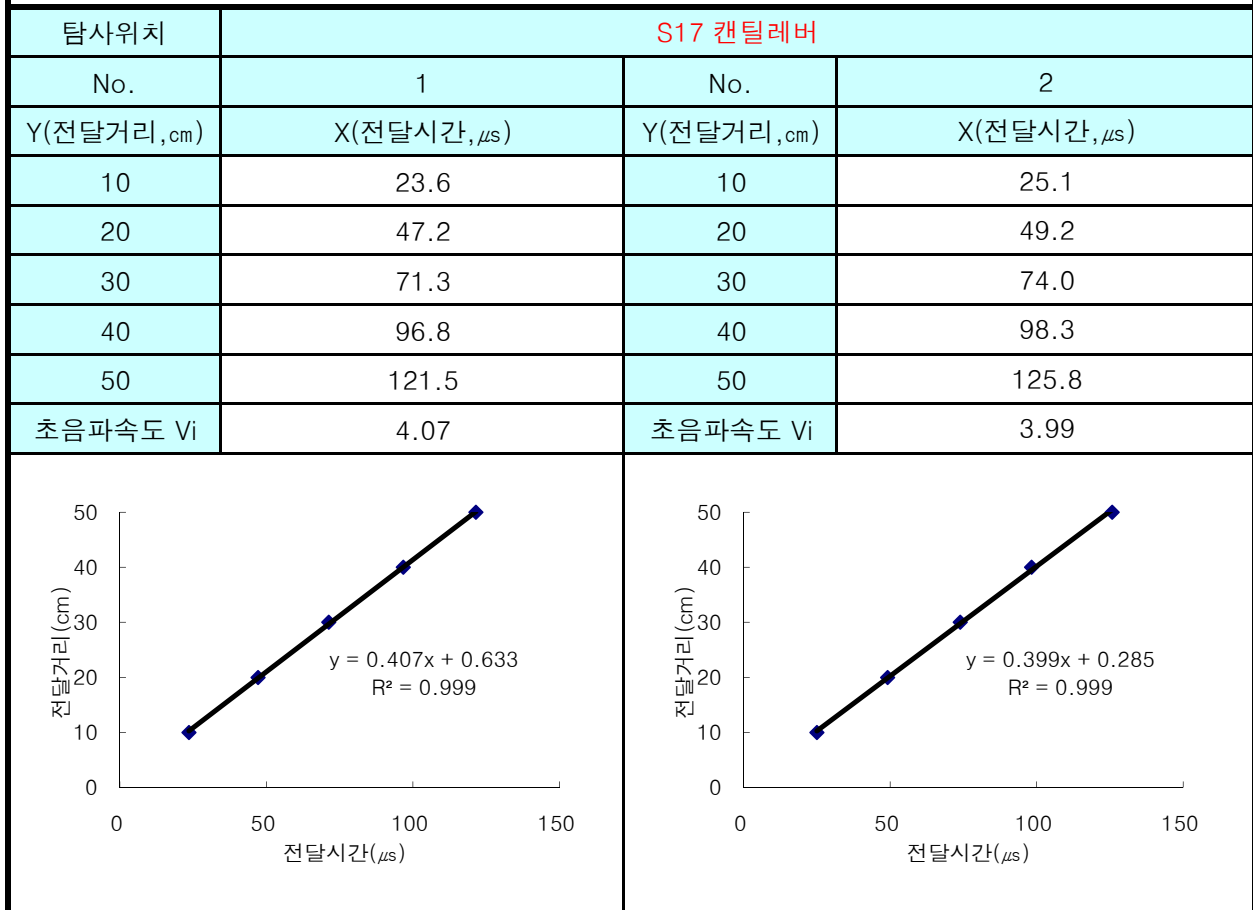
남천교(대구) 초음파탐사 17



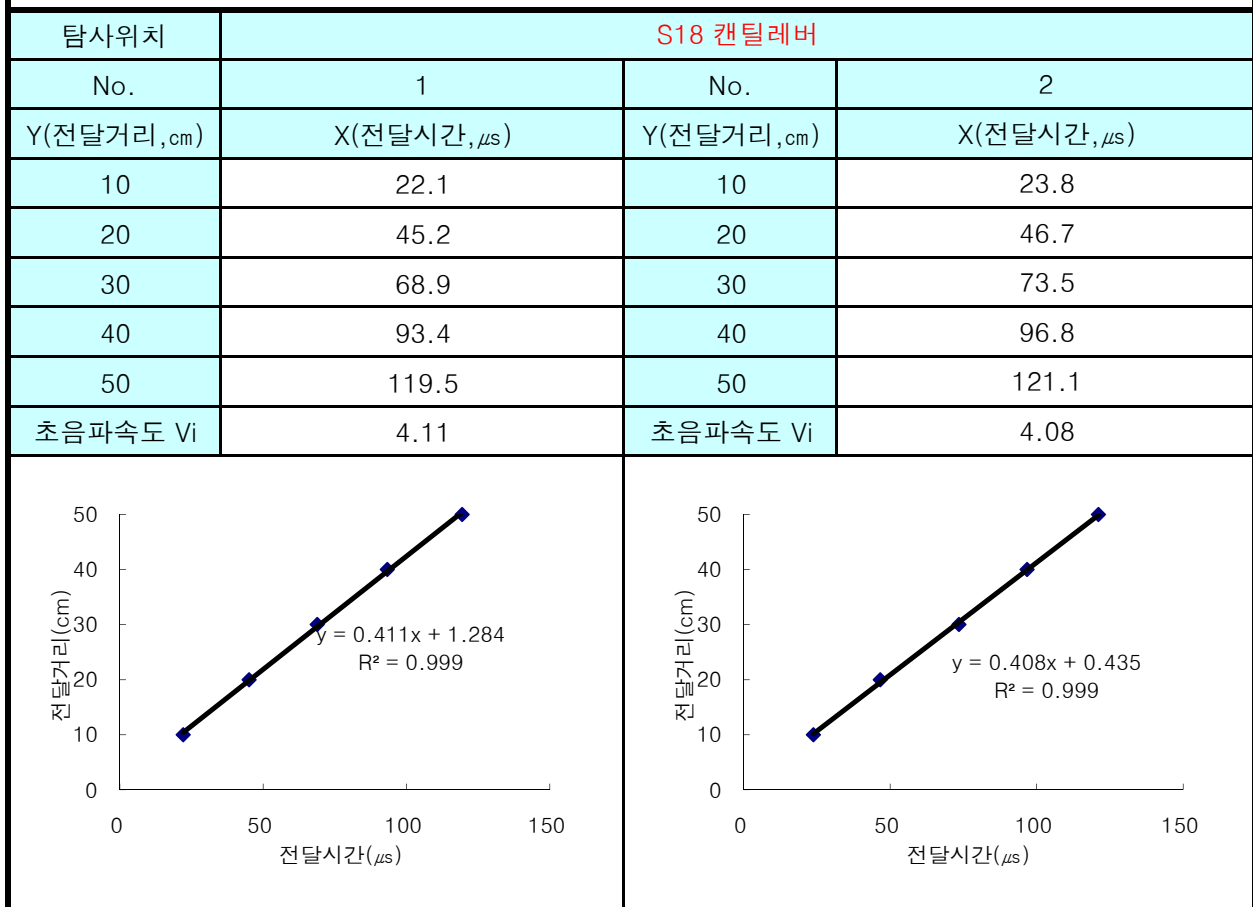
남천교(대구) 초음파탐사 18



남천교(대구) 초음파탐사 19



남천교(대구) 초음파탐사 20



남천교(대구) 초음파탐사 1

탐사위치	A1 구체		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	23.4	10	25.1
20	48.8	20	49.9
30	72.2	30	75.3
40	95.4	40	102.2
50	124.4	50	129.1
초음파속도 Vi	4.02	초음파속도 Vi	3.84

$y = 0.401x + 0.746$
 $R^2 = 0.998$

$y = 0.384x + 0.690$
 $R^2 = 0.999$

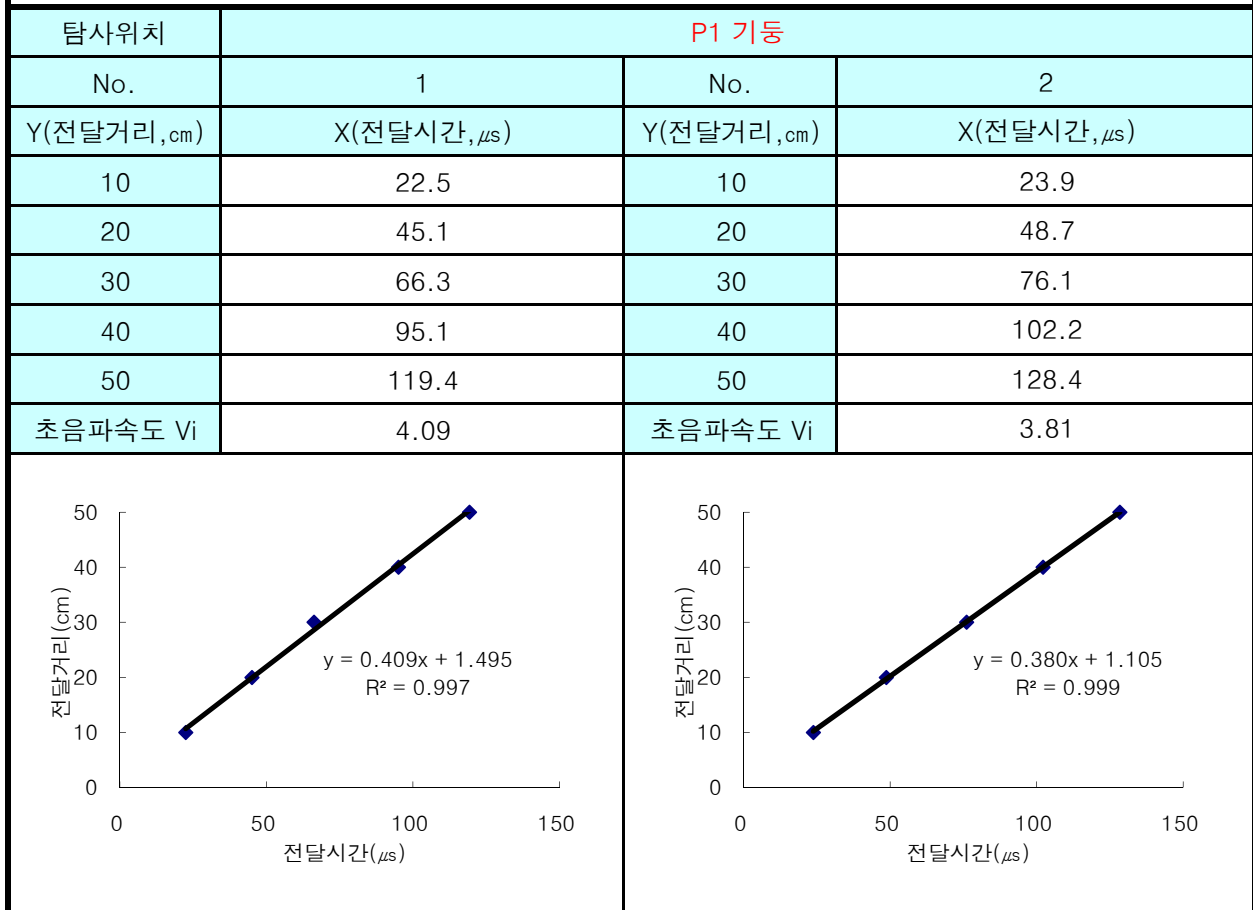
남천교(대구) 초음파탐사 2

탐사위치	P1 기둥		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	21.1	10	24.5
20	43.6	20	49.7
30	64.4	30	74.8
40	91.5	40	100.3
50	118.7	50	127.5
초음파속도 Vi	4.10	초음파속도 Vi	3.90

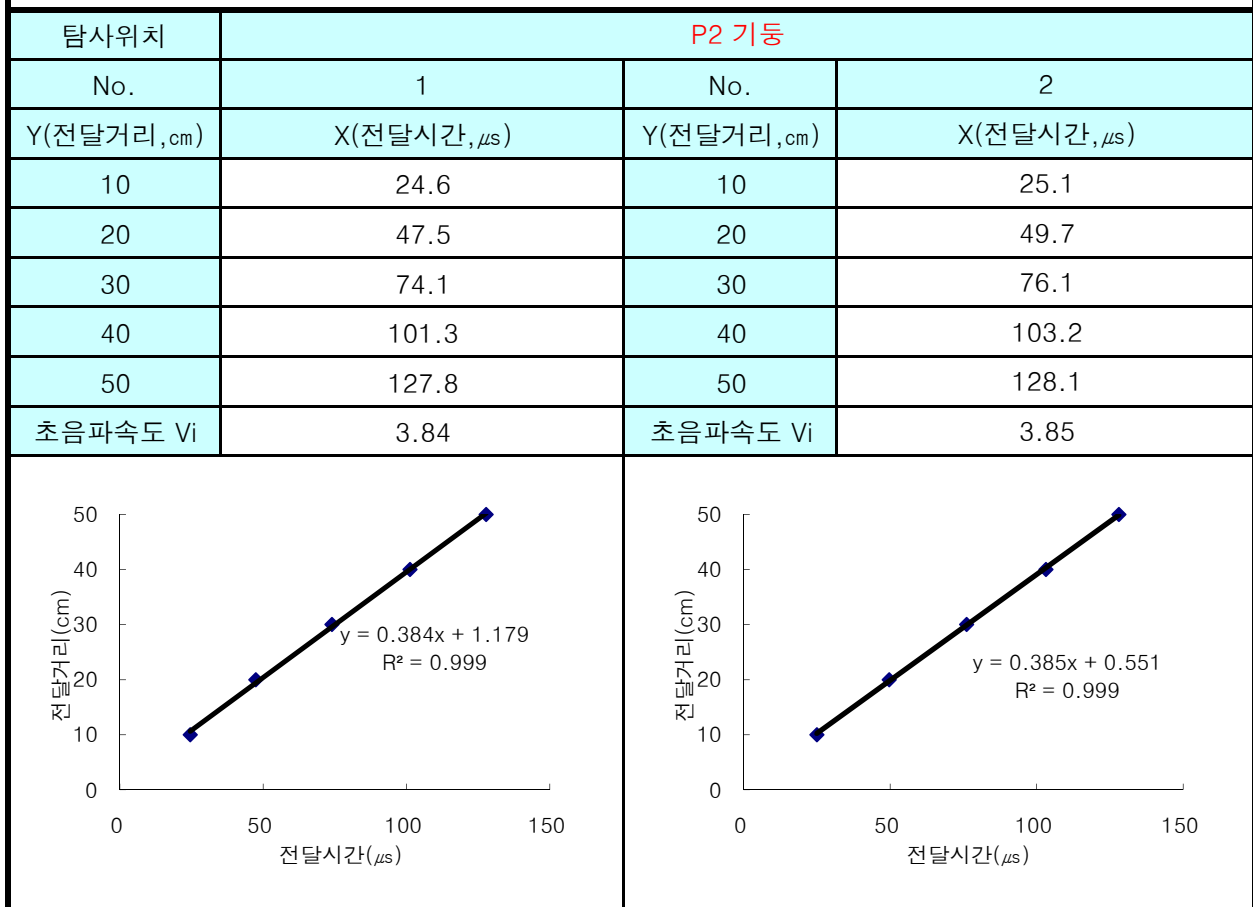
$y = 0.409x + 2.183$
 $R^2 = 0.996$

$y = 0.389x + 0.639$
 $R^2 = 0.999$

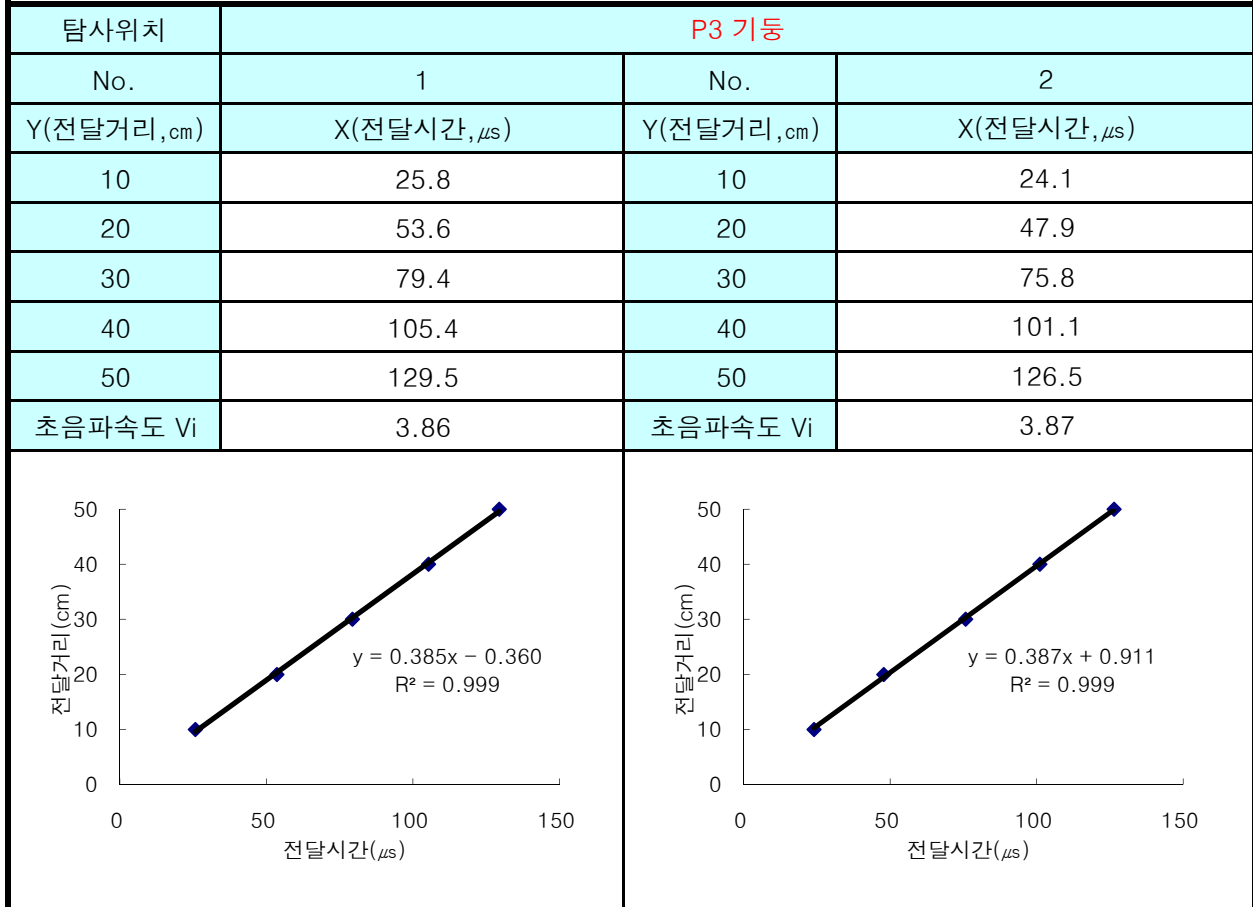
남천교(대구) 초음파탐사 3



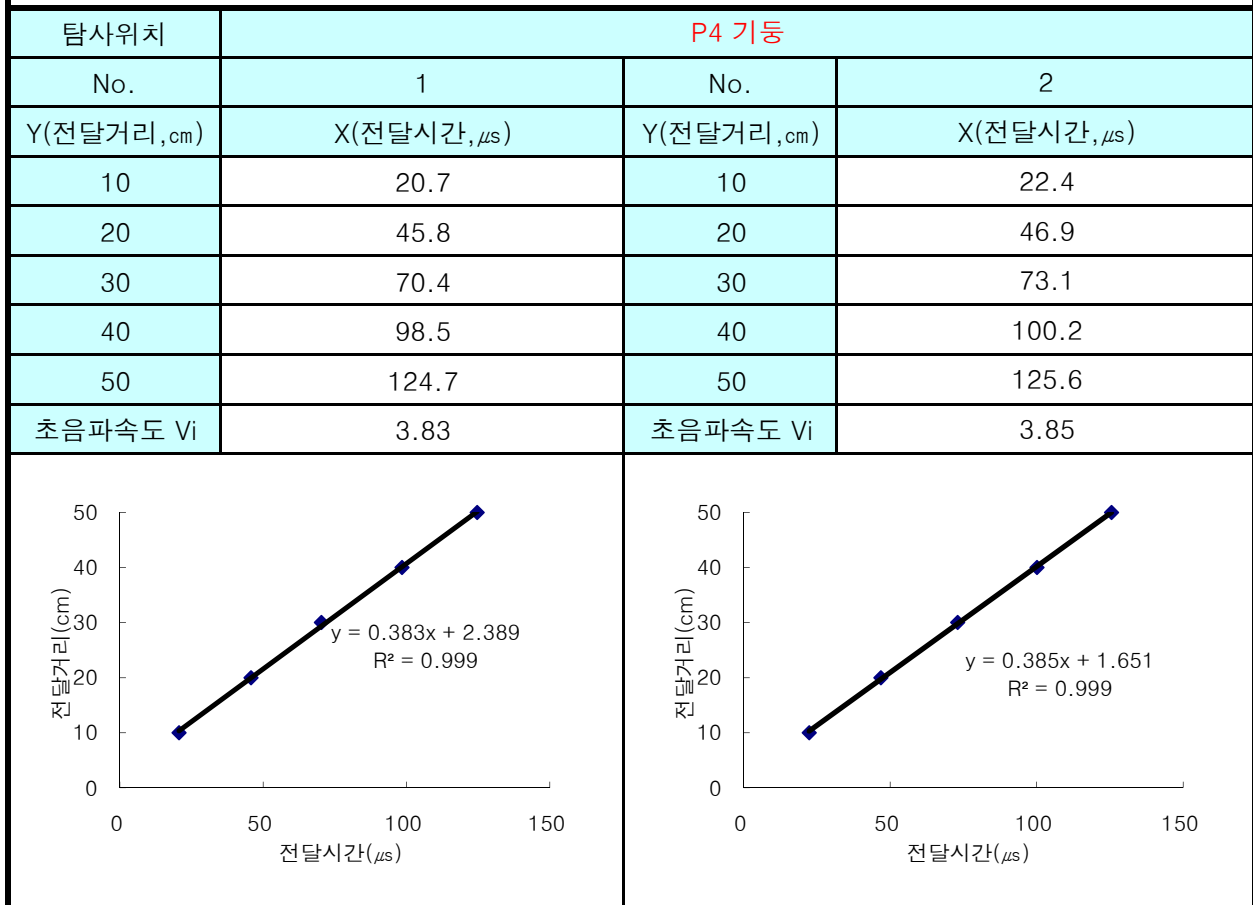
남천교(대구) 초음파탐사 4



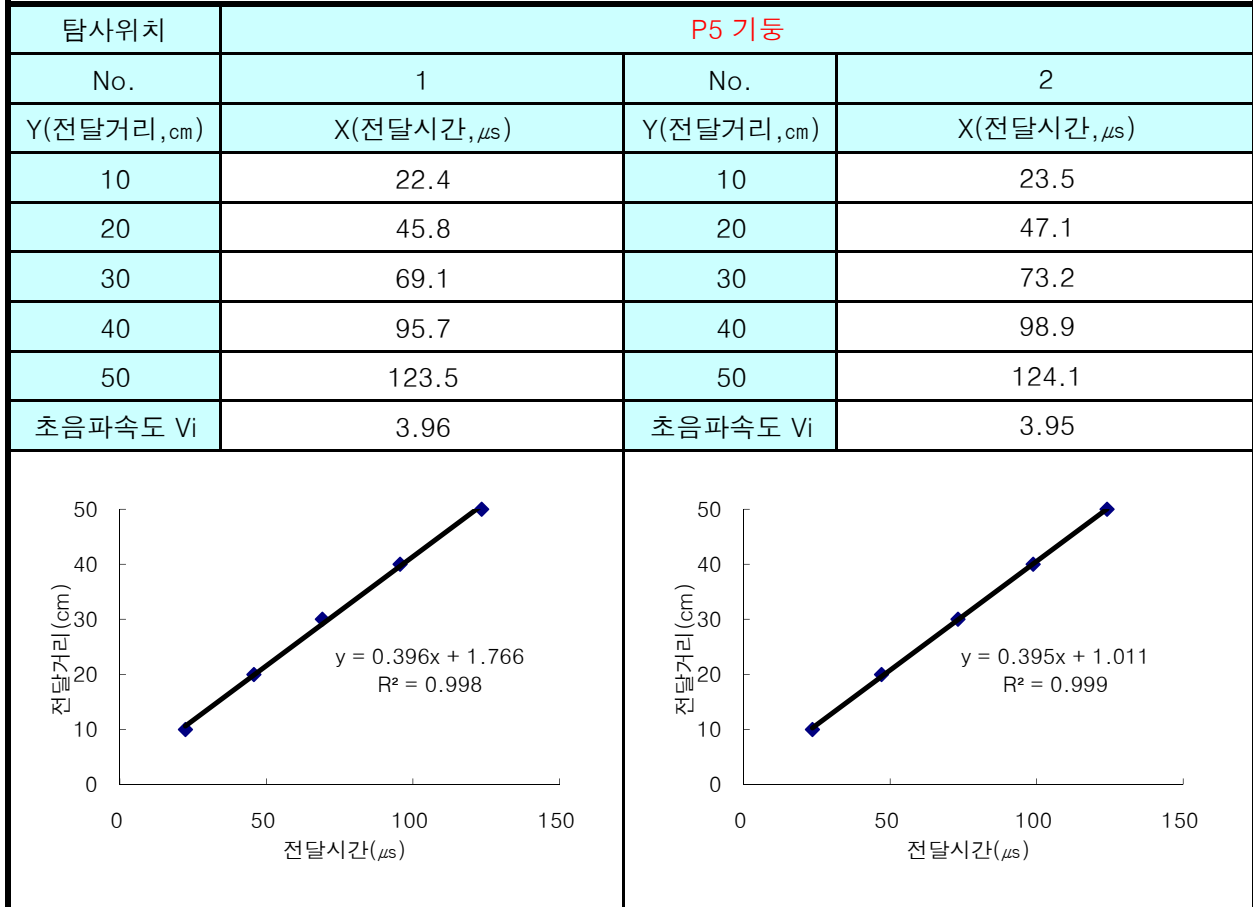
남천교(대구) 초음파탐사 5



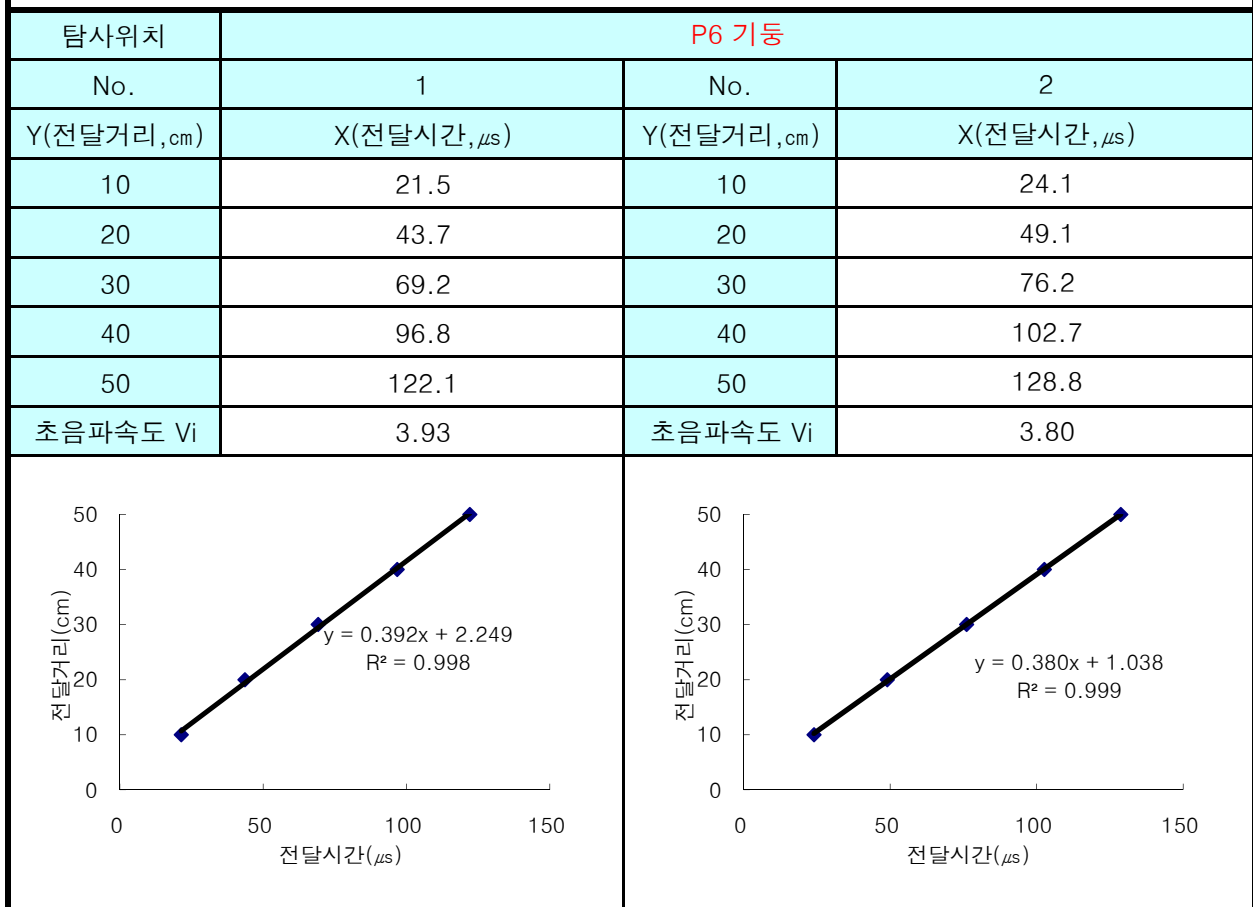
남천교(대구) 초음파탐사 6



남천교(대구) 초음파탐사 7



남천교(대구) 초음파탐사 8



남천교(대구) 초음파탐사 9

탐사위치	P7 기둥		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	23.7	10	25.1
20	48.2	20	48.7
30	73.6	30	74.2
40	99.2	40	98.8
50	124.3	50	125.3
초음파속도 Vi	3.96	초음파속도 Vi	3.99

$y = 0.396x + 0.739$
 $R^2 = 0.999$

$y = 0.399x + 0.301$
 $R^2 = 0.999$

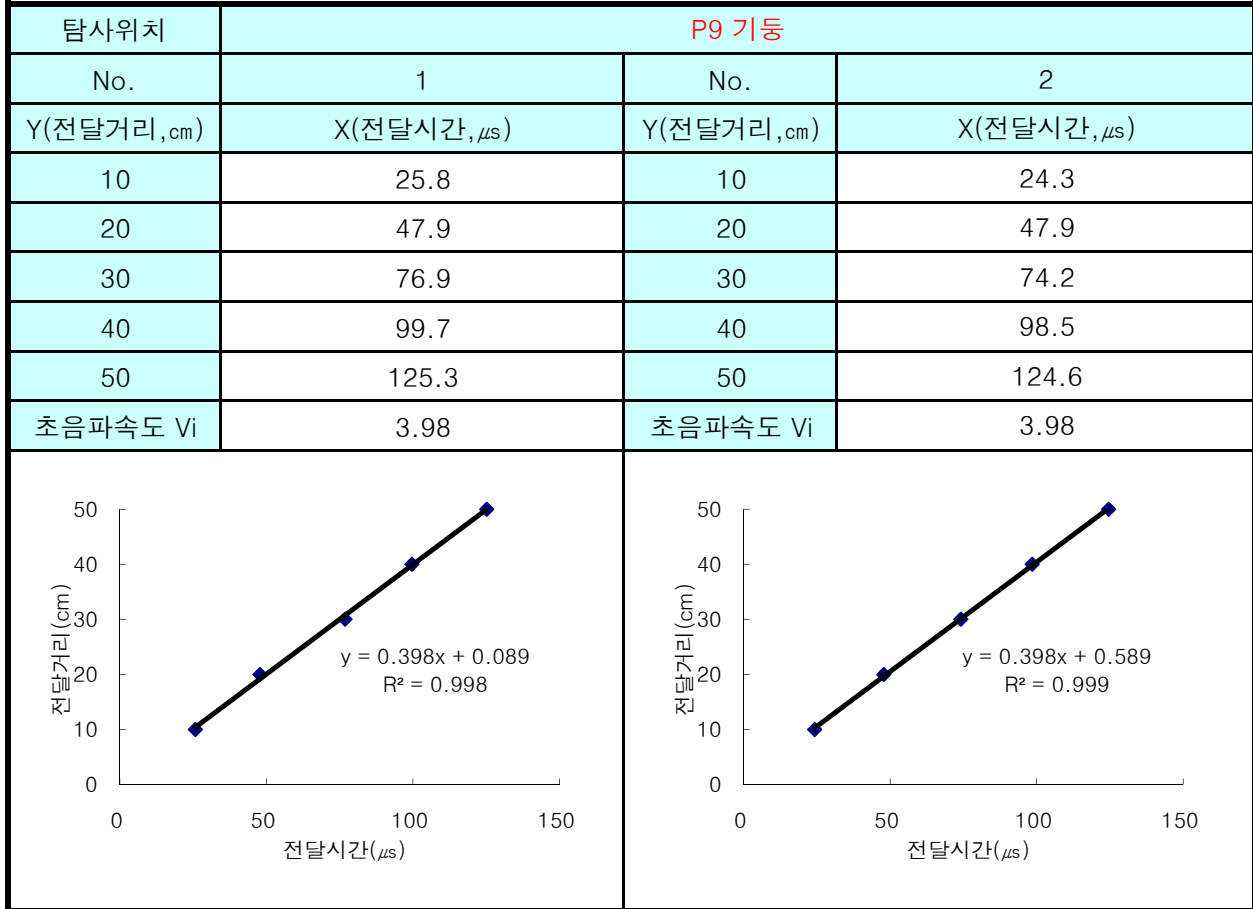
남천교(대구) 초음파탐사 10

탐사위치	P8 기둥		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μs)	Y(전달거리,cm)	X(전달시간, μs)
10	19.8	10	22.1
20	45.6	20	47.8
30	67.8	30	73.2
40	95.4	40	97.8
50	119.5	50	122.4
초음파속도 Vi	4.01	초음파속도 Vi	3.99

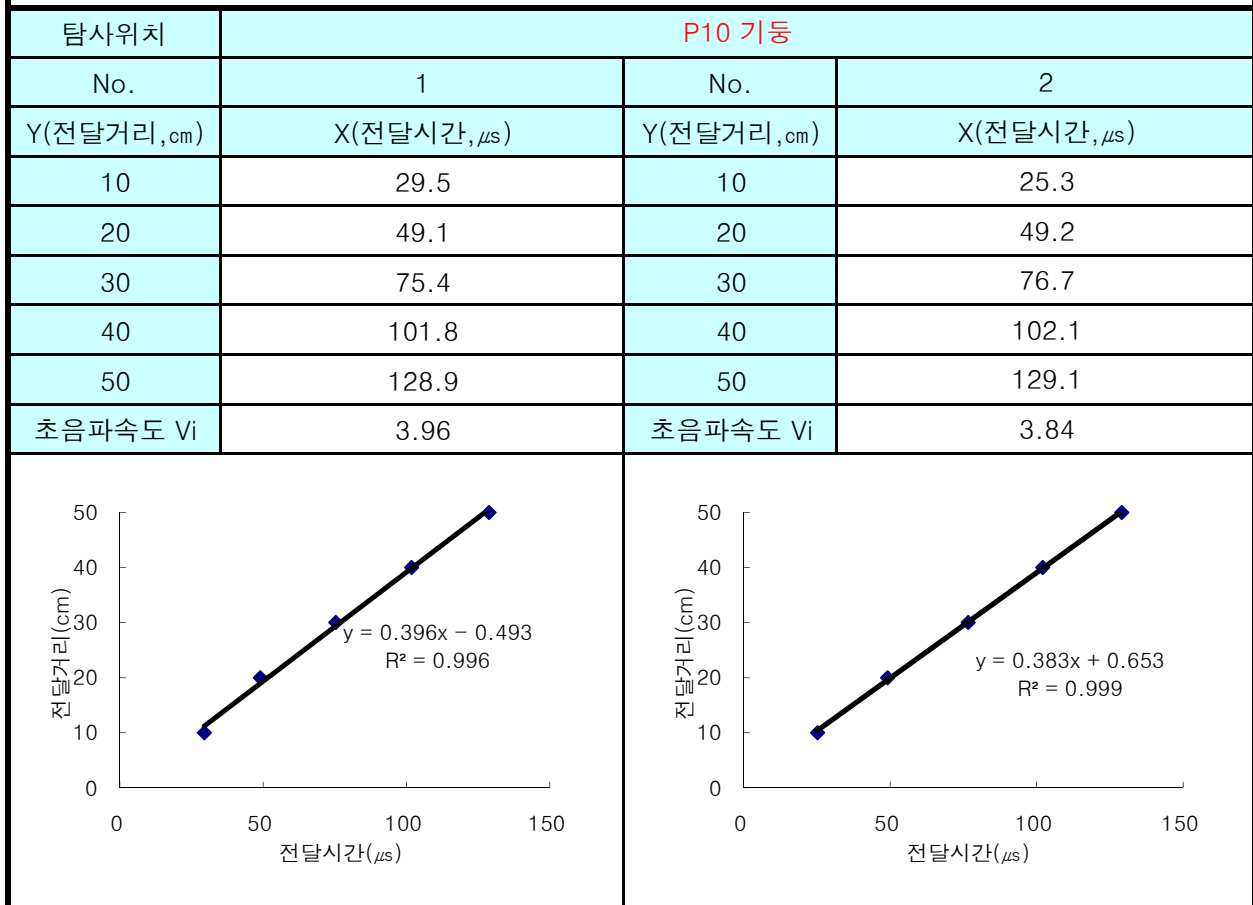
$y = 0.401x + 2.084$
 $R^2 = 0.999$

$y = 0.399x + 1.008$
 $R^2 = 0.999$

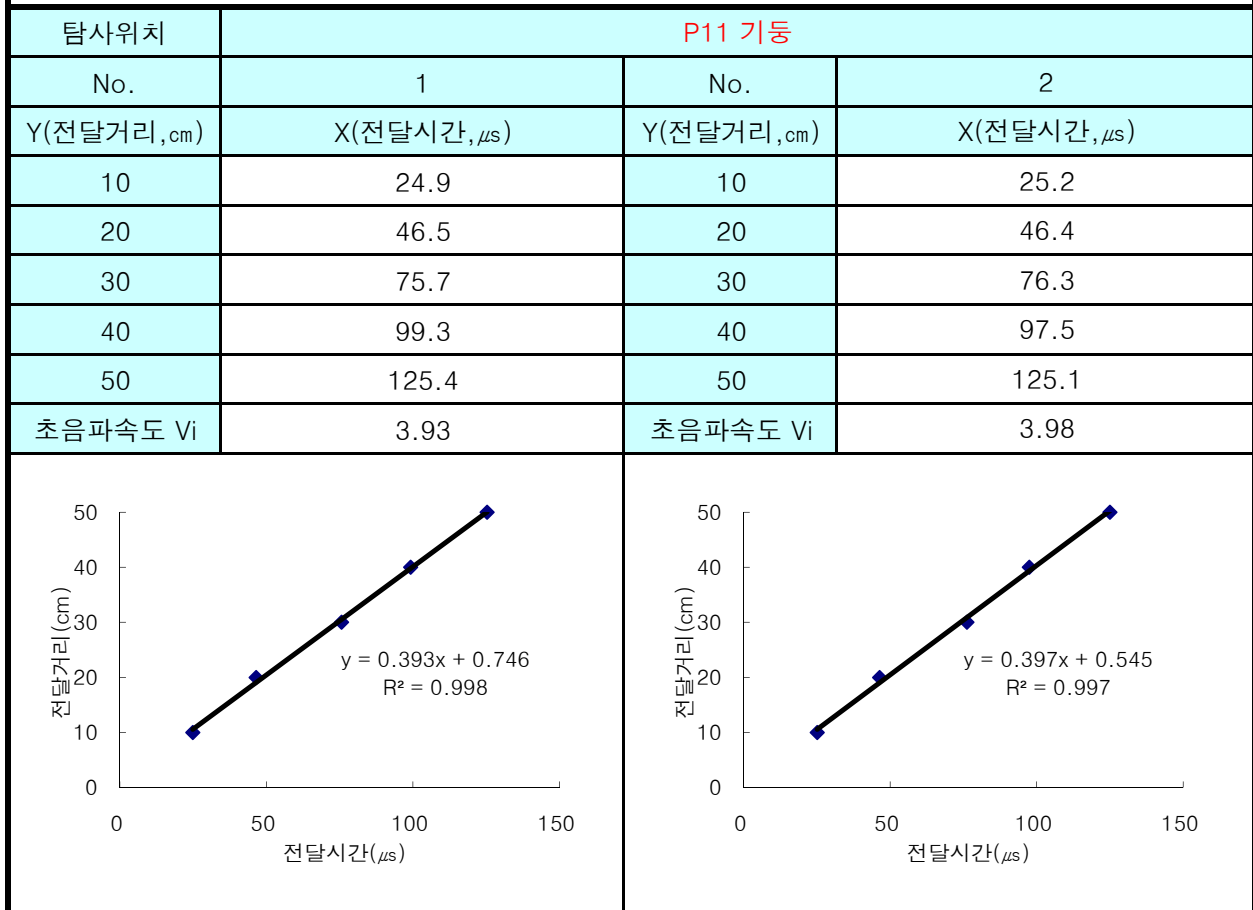
남천교(대구) 초음파탐사 11



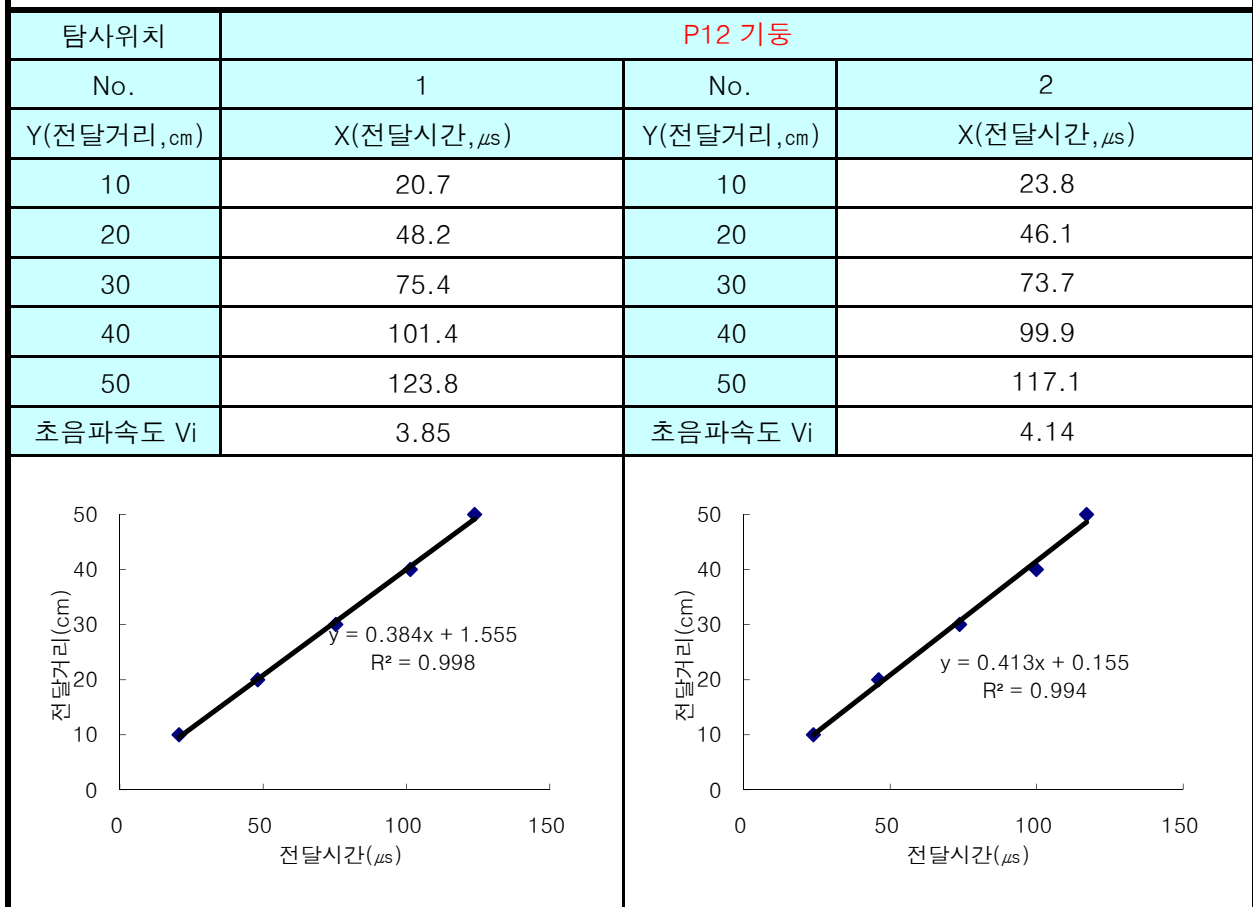
남천교(대구) 초음파탐사 12



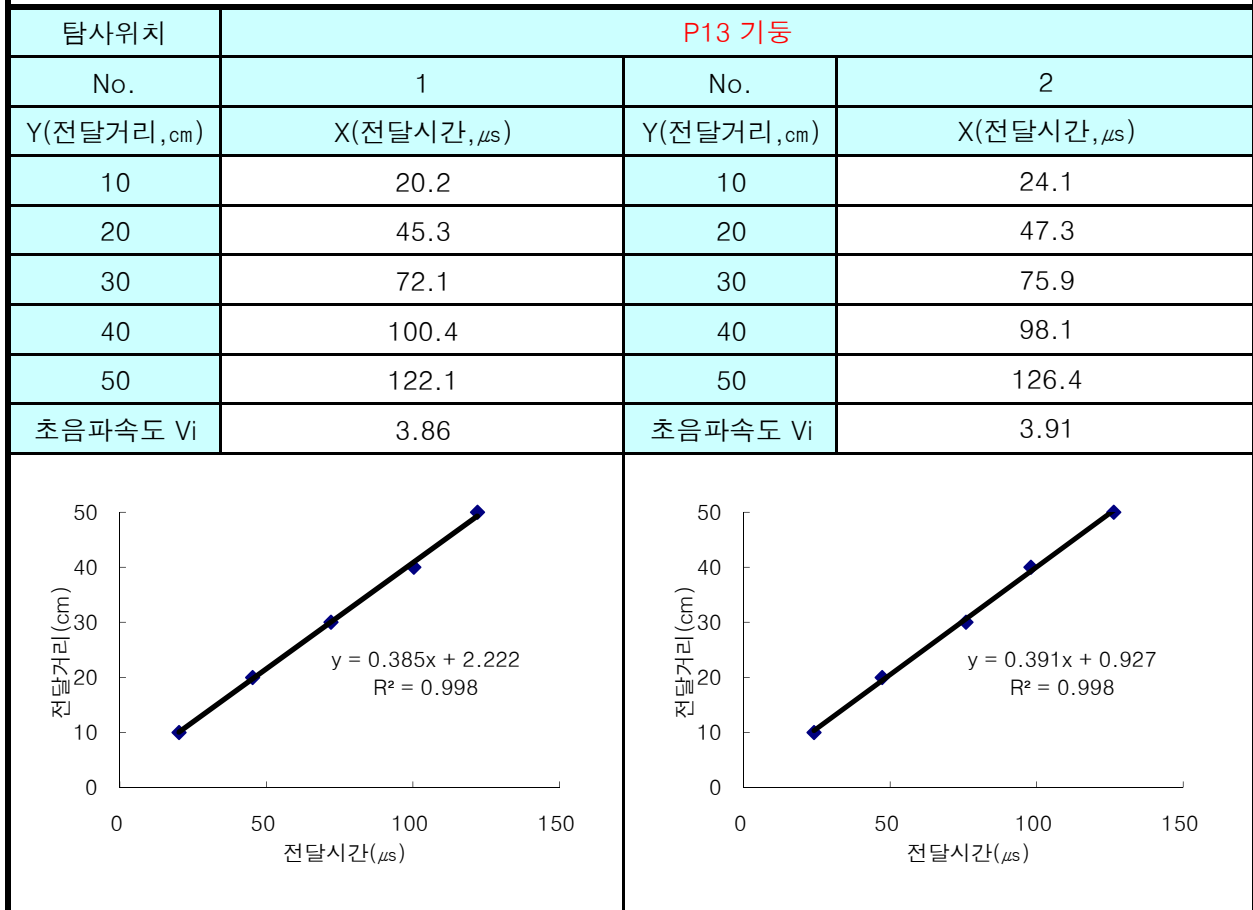
남천교(대구) 초음파탐사 13



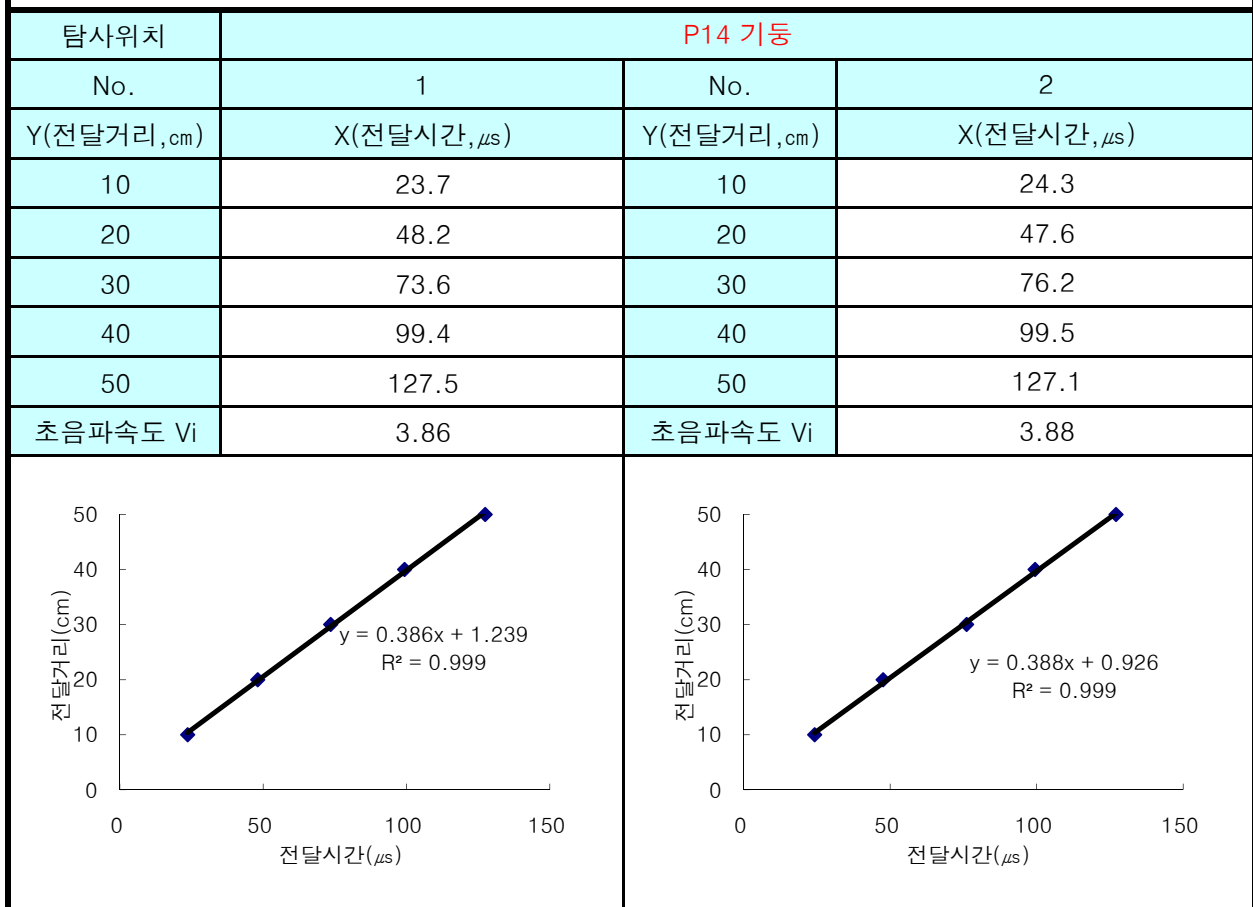
남천교(대구) 초음파탐사 14



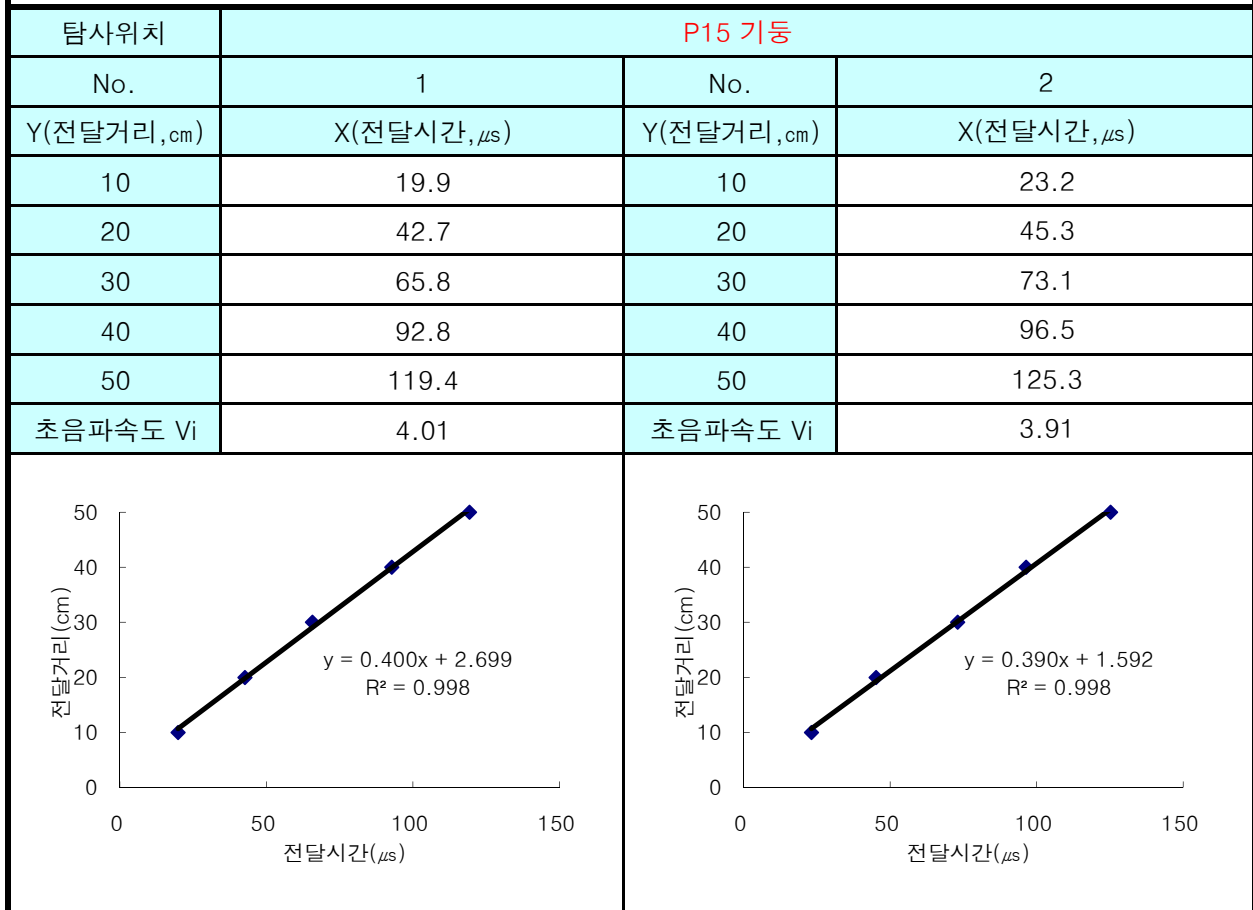
남천교(대구) 초음파탐사 15



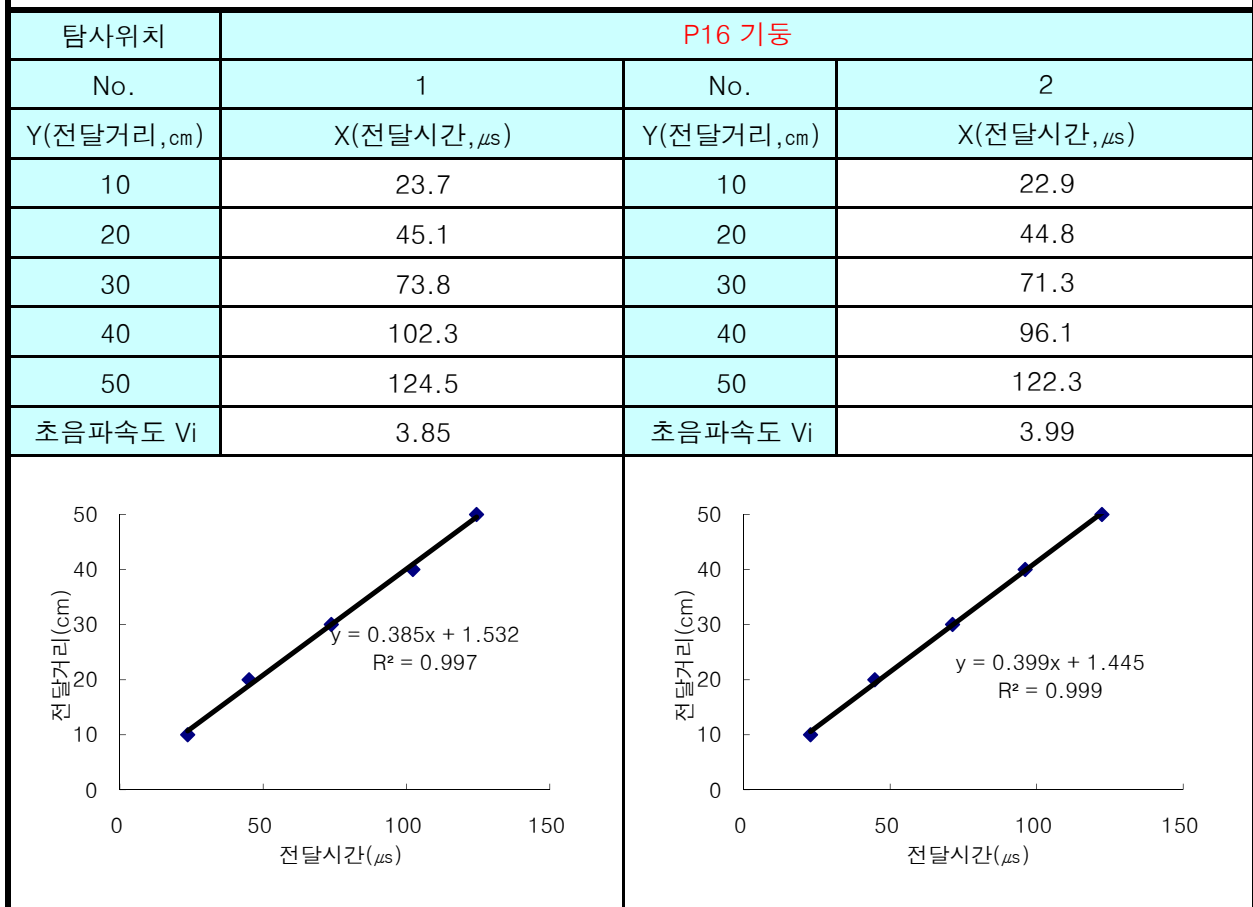
남천교(대구) 초음파탐사 16



남천교(대구) 초음파탐사 17



남천교(대구) 초음파탐사 18



남천교(대구) 초음파탐사 19

탐사위치	P17 기둥		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	24.3	10	24.2
20	49.6	20	46.7
30	78.4	30	74.3
40	105.8	40	97.1
50	121.9	50	126.2
초음파속도 Vi	3.95	초음파속도 Vi	3.92

$y = 0.394x + 0.007$
 $R^2 = 0.992$

$y = 0.392x + 1.081$
 $R^2 = 0.998$

남천교(대구) 초음파탐사 20

탐사위치	A2 구체		
No.	1	No.	2
Y(전달거리,cm)	X(전달시간, μ s)	Y(전달거리,cm)	X(전달시간, μ s)
10	22.8	10	23.9
20	46.7	20	45.1
30	73.1	30	73.2
40	99.6	40	96.5
50	123.4	50	125.7
초음파속도 Vi	3.93	초음파속도 Vi	3.91

$y = 0.393x + 1.236$
 $R^2 = 0.999$

$y = 0.391x + 1.490$
 $R^2 = 0.997$