

**DTV Channel 6 Interference to FM Band Reception**

**Laboratory Test Report**

**Test Results Based on DTV Transmitter Operating out of Specification C2**

Section: 4.2.1  
 Engr(s): TK, DML  
 Date: 3/3/98

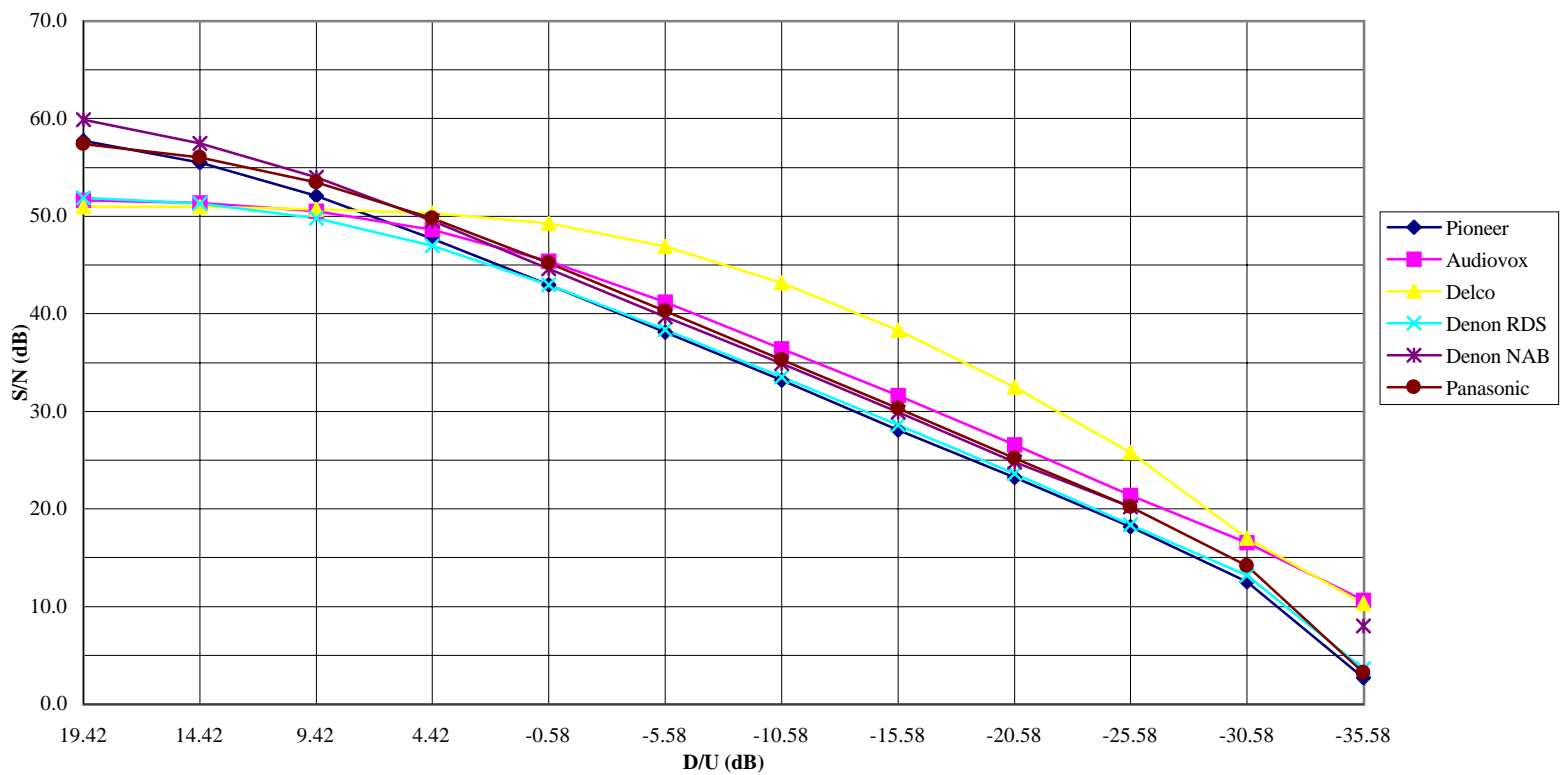
Signal Level: -56 dBm  
 Corrector Setting: 2

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.10	-2.52

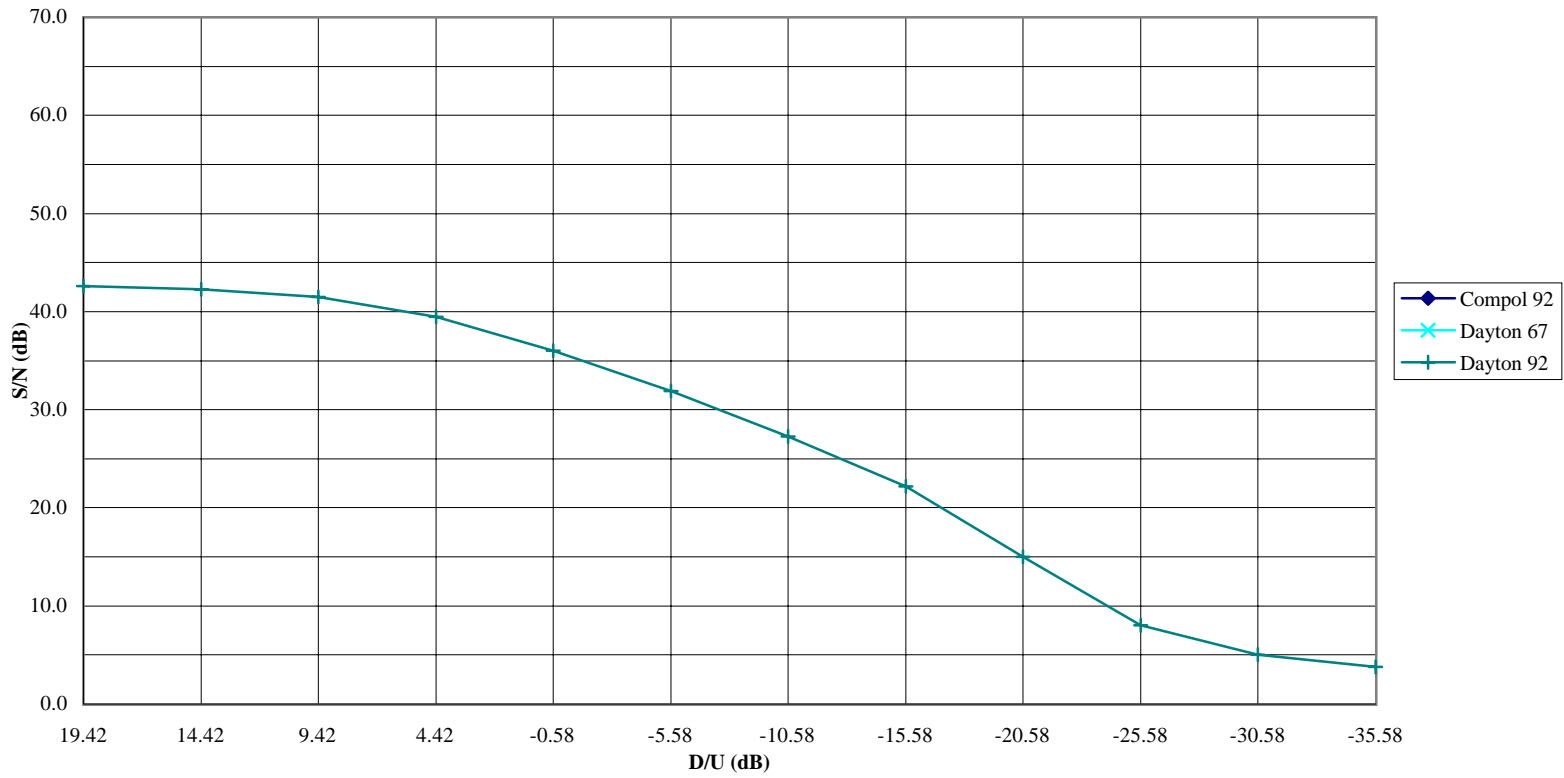
0 dB D/U = -35.58

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		58.8	51.6	51.0	52.2	61	58.0	42.6		
55.0	19.42	57.7	51.6	51.0	51.9	59.9	57.4	42.6		
50.0	14.42	55.5	51.4	51.0	51.3	57.5	56.0	42.3		
45.0	9.42	52.1	50.5	50.7	49.8	54	53.5	41.5		
40.0	4.42	47.7	48.6	50.3	47.0	49.5	49.8	39.5		
35.0	-0.58	43.0	45.4	49.3	43.0	44.6	45.2	36.0		
30.0	-5.58	38.1	41.2	46.9	38.4	39.7	40.3	31.9		
25.0	-10.58	33.2	36.4	43.2	33.5	34.9	35.3	27.3		
20.0	-15.58	28.1	31.6	38.3	28.6	29.9	30.3	22.2		
15.0	-20.58	23.2	26.6	32.5	23.6	24.8	25.2	15.0		
10.0	-25.58	18.2	21.4	25.8	18.4	20.2	20.2	8.0		
5.0	-30.58	12.5	16.5	17.0	13.2		14.2	5.0		
0.0	-35.58	2.7	10.6	10.3	3.6	8.0	3.2	3.8		
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.2.2  
 Engr(s): TK, DML  
 Date: 3/4/98

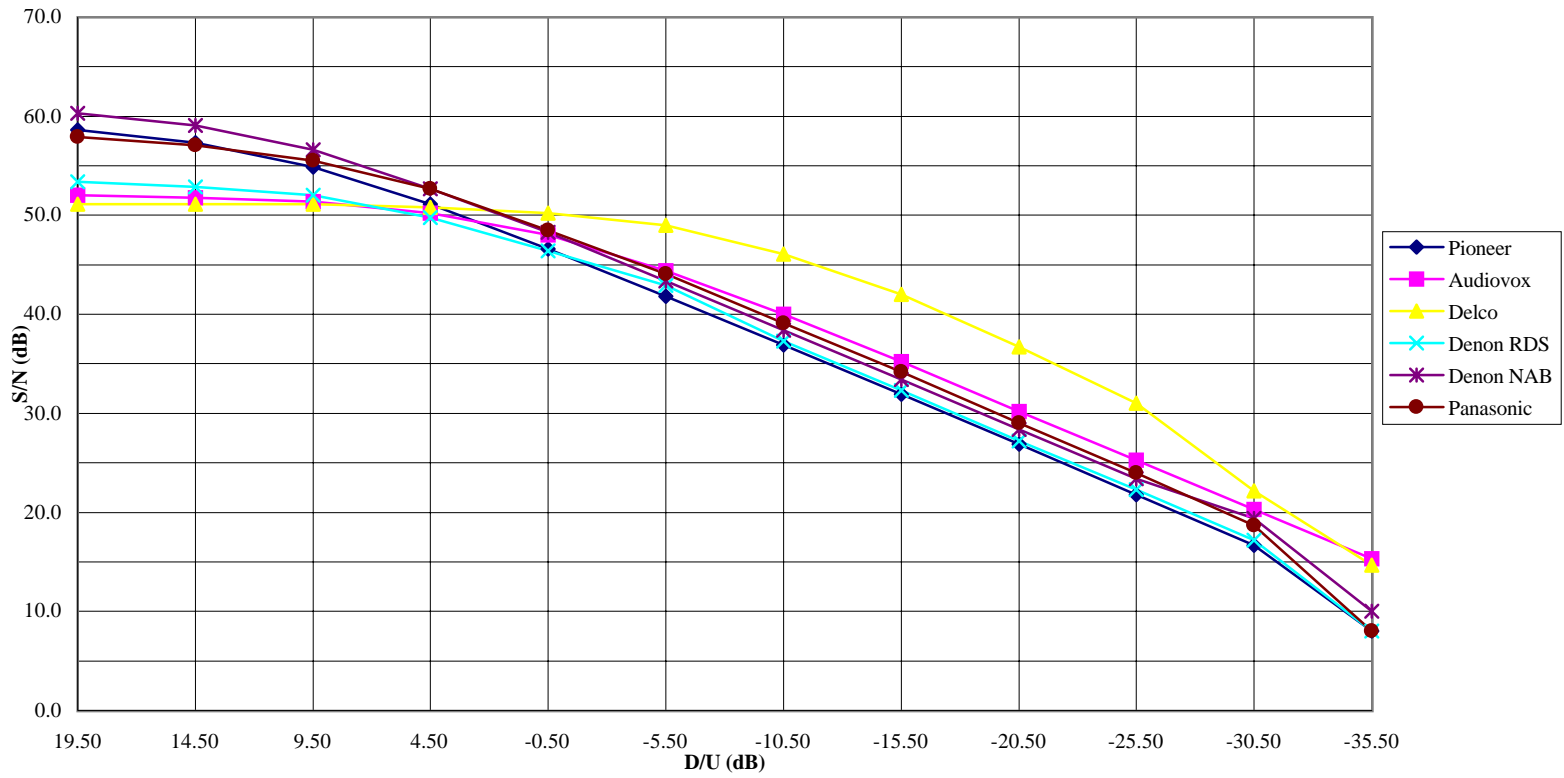
Signal Level: -56 dBm  
 Corrector Setting: 2

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.12	-2.62

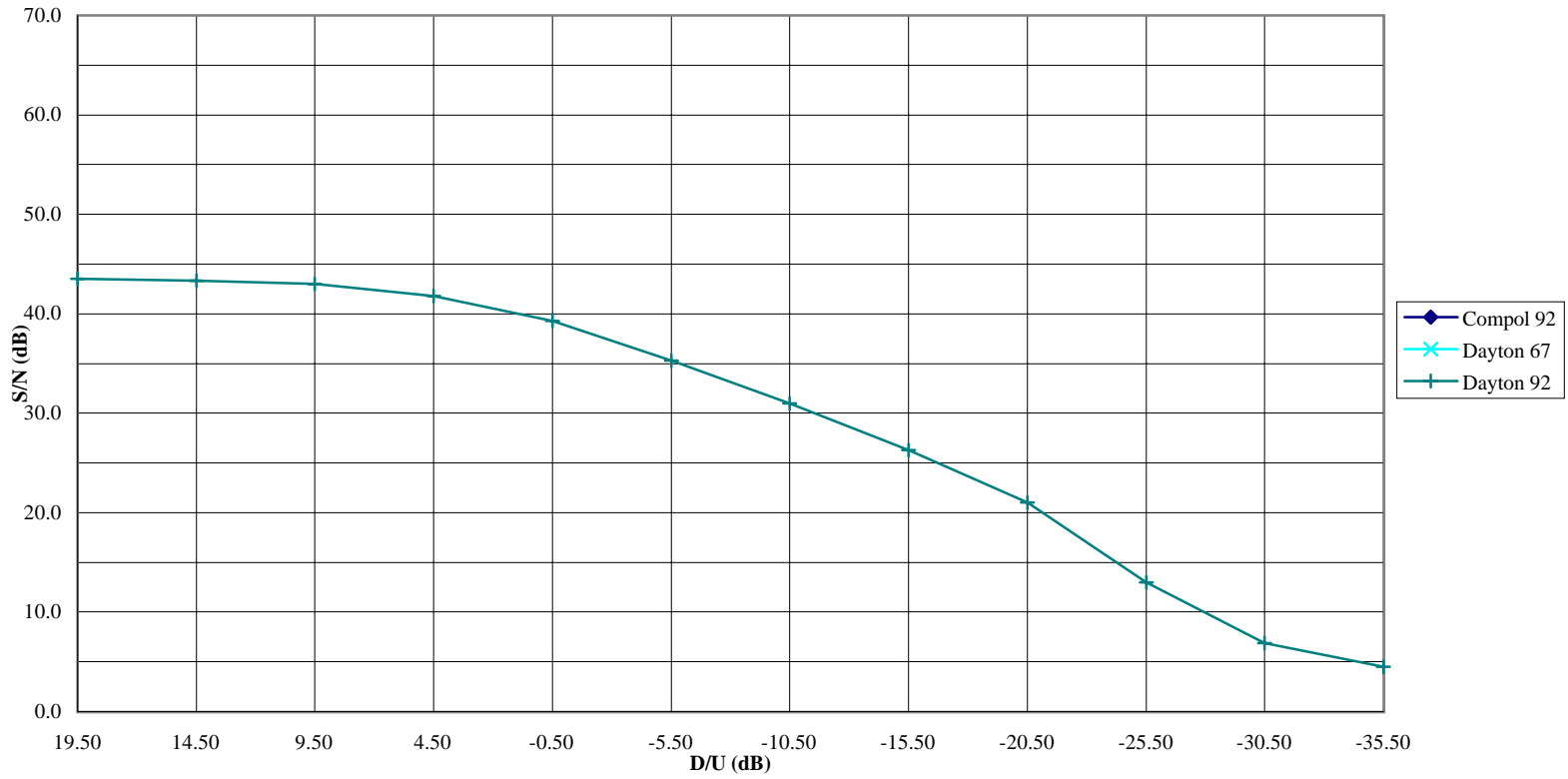
0 dB D/U = -35.50

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		59.2	52.0	51.1	53.4	61.1	58.0	43.6		
55.0	19.50	58.6	52.0	51.1	53.4	60.3	57.9	43.5		
50.0	14.50	57.3	51.8	51.1	52.9	59.1	57.1	43.3		
45.0	9.50	54.9	51.4	51.1	52.0	56.6	55.5	43.0		
40.0	4.50	51.1	50.2	50.8	49.8	52.7	52.7	41.8		
35.0	-0.50	46.6	48.0	50.2	46.4	48.3	48.5	39.3		
30.0	-5.50	41.8	44.4	49.0	42.9	43.4	44.1	35.3		
25.0	-10.50	36.9	40.0	46.1	37.3	38.4	39.1	31.0		
20.0	-15.50	31.9	35.2	42.0	32.3	33.4	34.2	26.3		
15.0	-20.50	26.9	30.2	36.7	27.2	28.4	29.0	21.0		
10.0	-25.50	21.8	25.3	31.0	22.3	23.4	24.0	13.0		
5.0	-30.50	16.7	20.3	22.2	17.2	19.4	18.7	6.9		
0.0	-35.50	8.0	15.3	14.7	8.0	10.0	8.0	4.5		
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.2.3  
 Engr(s): DML  
 Date: 4/16/98

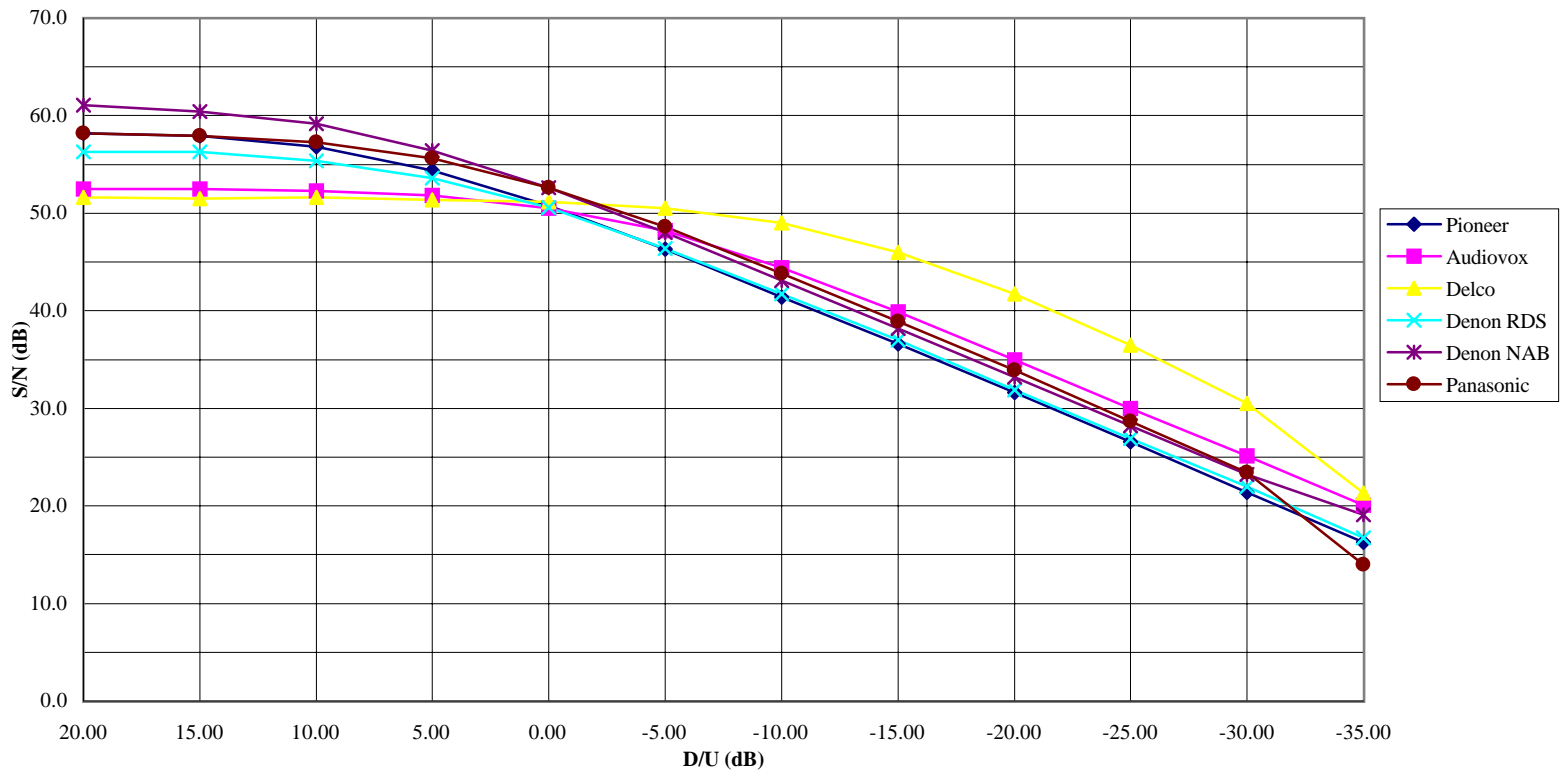
Signal Level: -56 dBm  
 Corrector Setting: 2

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-37.80	-2.80

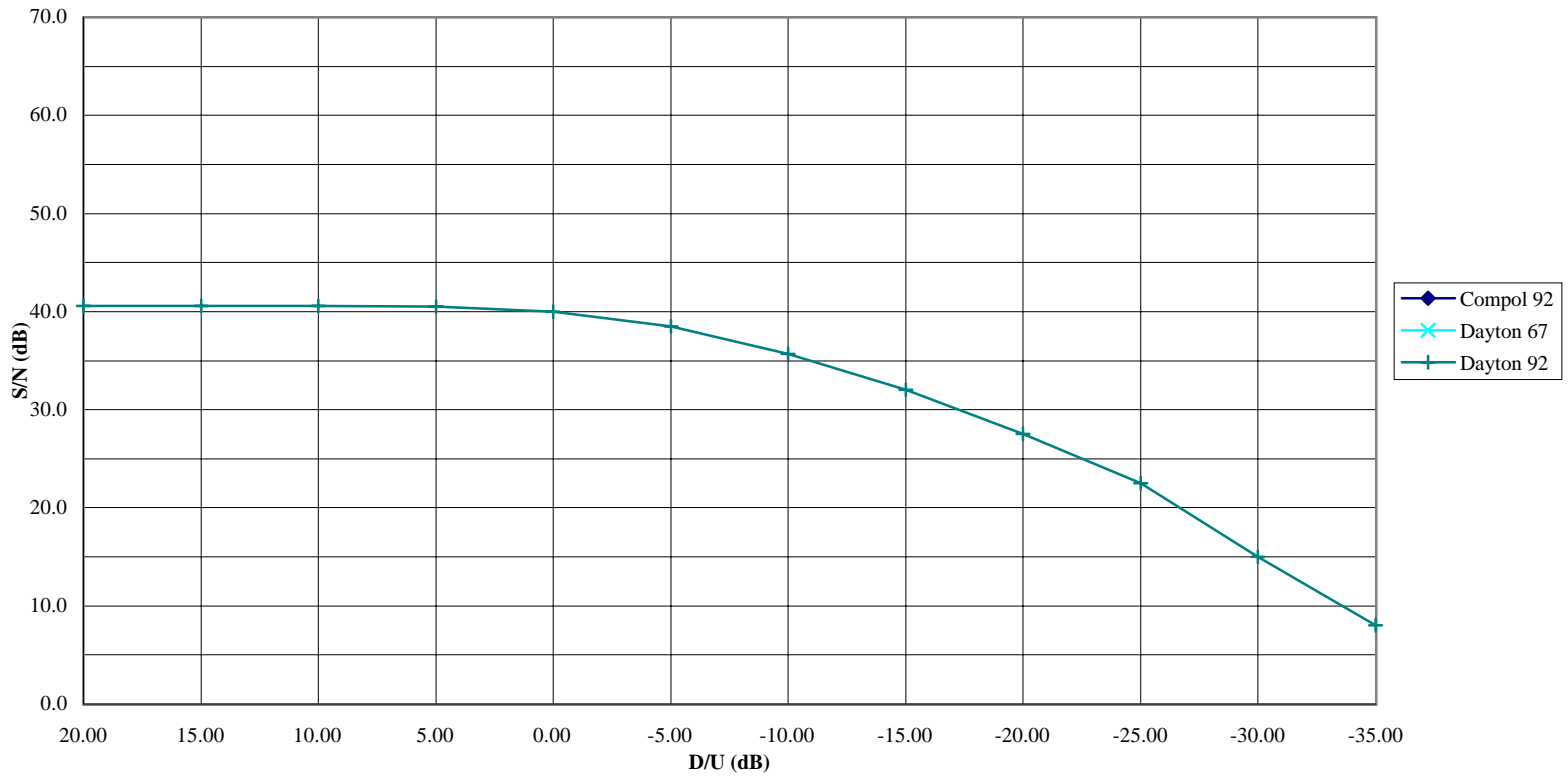
0 dB D/U = -35.00

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		58.5	52.5	51.6	56.4	61.3	58.3	40.6		
55.0	20.00	58.2	52.5	51.6	56.3	61.1	58.2	40.6		
50.0	15.00	57.9	52.5	51.5	56.3	60.4	57.9	40.6		
45.0	10.00	56.8	52.3	51.6	55.4	59.2	57.3	40.6		
40.0	5.00	54.4	51.8	51.4	53.6	56.4	55.6	40.5		
35.0	0.00	50.8	50.5	51.2	50.6	52.6	52.6	40.0		
30.0	-5.00	46.3	48.2	50.5	46.4	48.0	48.6	38.5		
25.0	-10.00	41.4	44.4	49.0	41.7	43.1	43.8	35.7		
20.0	-15.00	36.6	39.9	46.0	37.0	38.2	38.9	32.0		
15.0	-20.00	31.6	35.0	41.7	31.9	33.2	33.9	27.5		
10.0	-25.00	26.6	30.0	36.5	26.9	28.2	28.7	22.5		
5.0	-30.00	21.4	25.1	30.5	22.0	23.2	23.4	15.0		
0.0	-35.00	16.3	20.1	21.3	16.7	19.1	14.0	8.0		
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.2.4  
 Engr(s): TK, DML  
 Date: 2/26/98

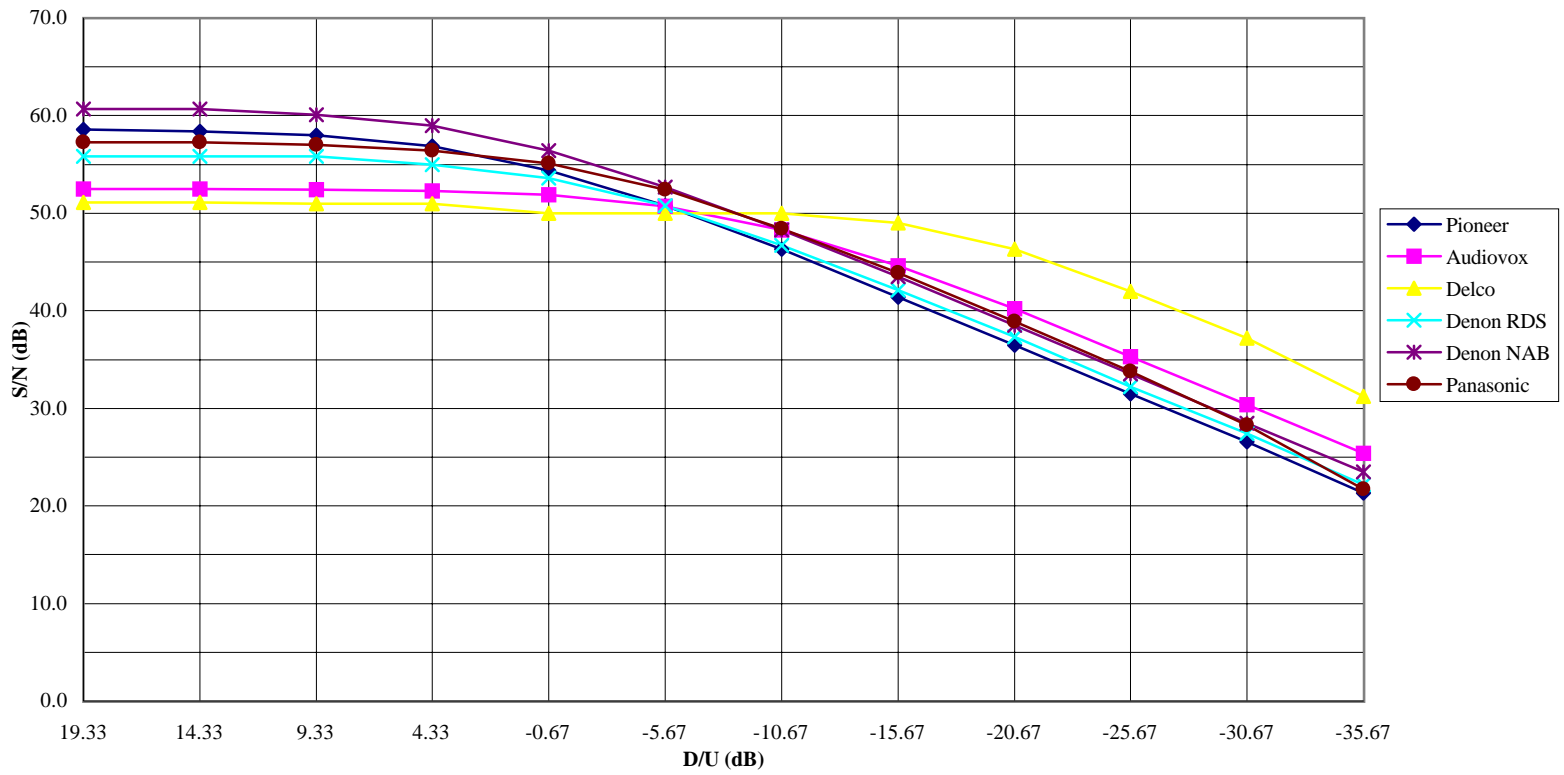
Signal Level: -56 dBm  
 Corrector Setting: 2

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.19	-2.52

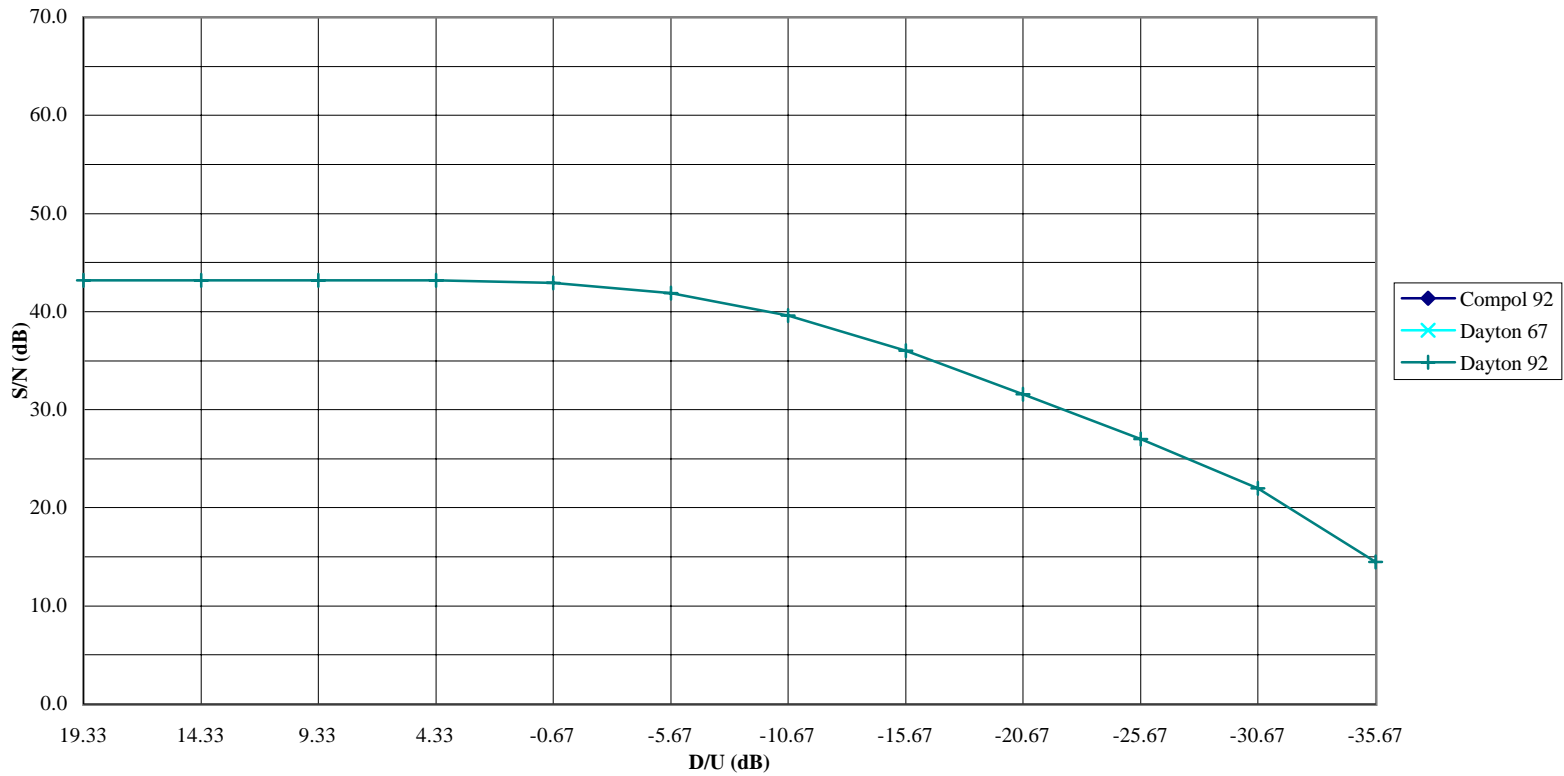
0 dB D/U = -35.67

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		58.6	52.5	51.1	55.8	60.7	57.3	43.2		
55.0	19.33	58.6	52.5	51.1	55.8	60.7	57.3	43.2		
50.0	14.33	58.4	52.5	51.1	55.8	60.7	57.3	43.2		
45.0	9.33	58.0	52.4	51.0	55.8	60.1	57.0	43.2		
40.0	4.33	56.9	52.3	51.0	55.0	59	56.4	43.2		
35.0	-0.67	54.4	51.9	50.0	53.6	56.4	55.1	42.9		
30.0	-5.67	50.8	50.7	50.0	50.8	52.7	52.4	41.9		
25.0	-10.67	46.3	48.3	50.0	46.7	48.3	48.4	39.6		
20.0	-15.67	41.4	44.6	49.0	42.1	43.5	43.9	36.0		
15.0	-20.67	36.5	40.2	46.3	37.3	38.5	38.9	31.6		
10.0	-25.67	31.5	35.3	42.0	32.2	33.5	33.8	27.0		
5.0	-30.67	26.6	30.4	37.2	27.4	28.5	28.3	22.0		
0.0	-35.67	21.3	25.4	31.2	22.2	23.5	21.7	14.5		
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.2.5  
 Engr(s): TK, DML  
 Date: 2/27/98

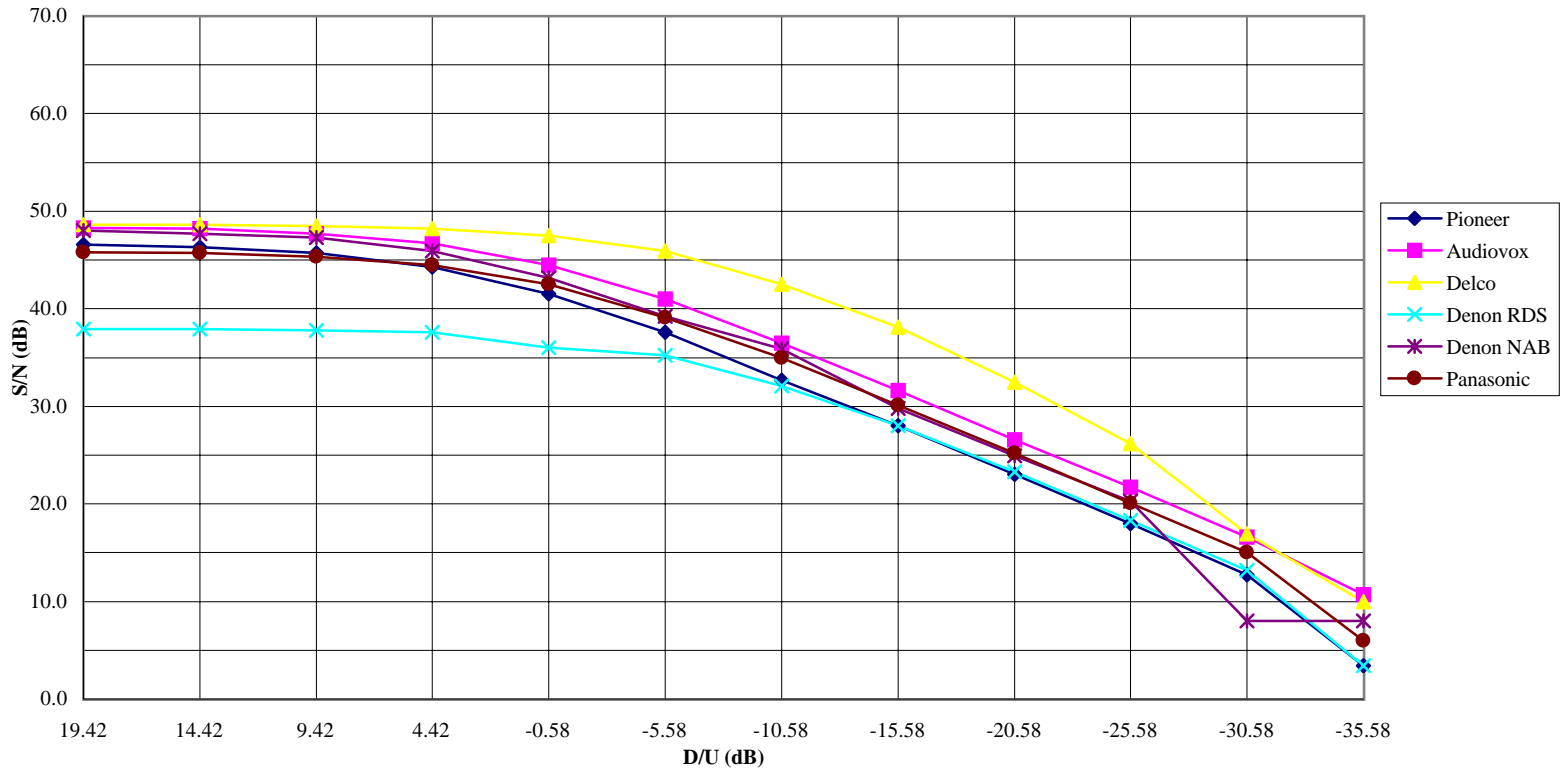
Signal Level: -71 dBm  
 Corrector Setting: 2

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.10	-2.52

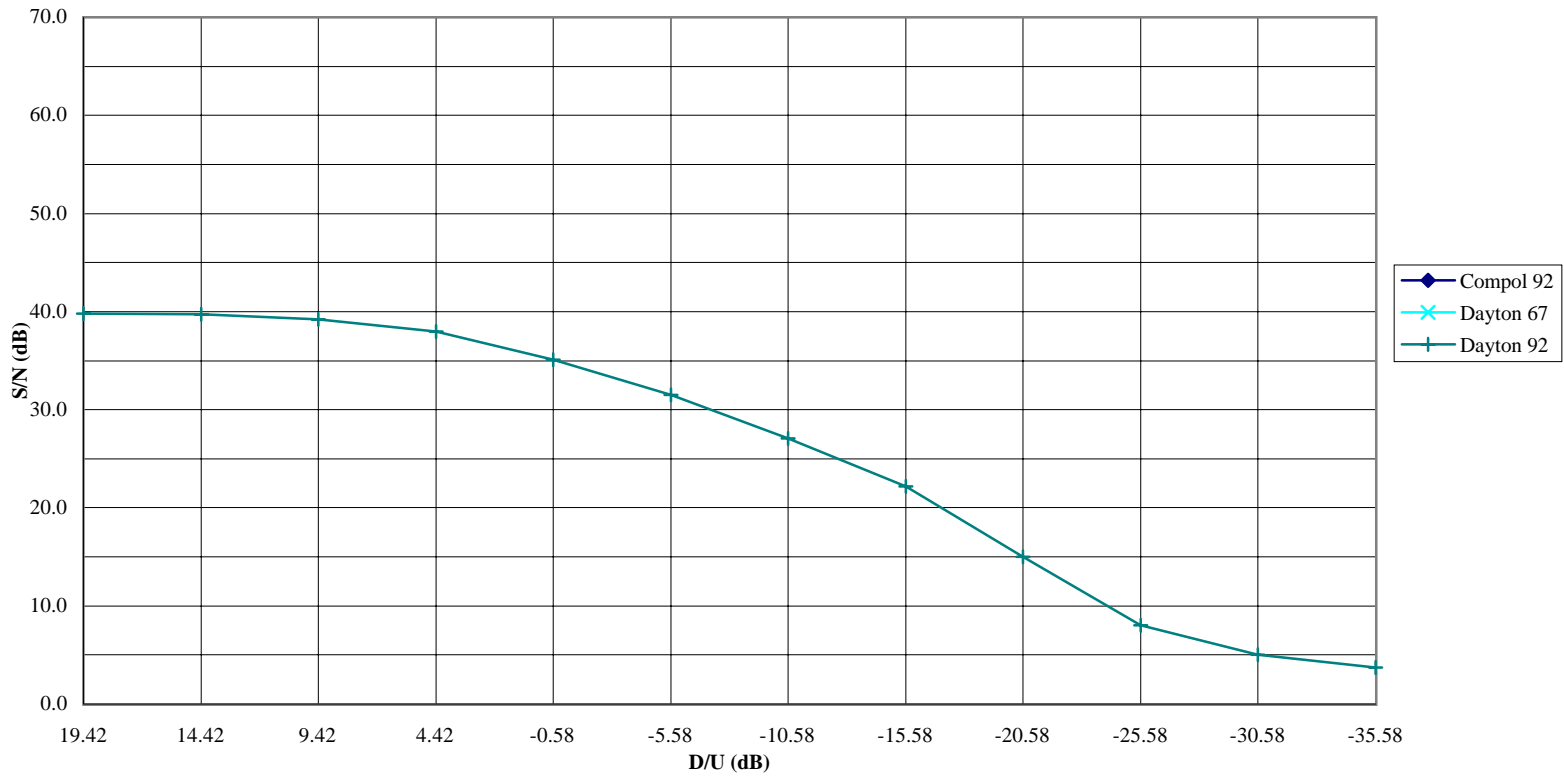
0 dB D/U = -35.58

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		46.6	48.5	48.6	37.9	48	45.8	39.8		
55.0	19.42	46.6	48.3	48.6	37.9	48	45.8	39.8		
50.0	14.42	46.3	48.2	48.6	37.9	47.7	45.7	39.7		
45.0	9.42	45.7	47.7	48.5	37.8	47.3	45.3	39.2		
40.0	4.42	44.3	46.7	48.2	37.6	45.9	44.5	38.0		
35.0	-0.58	41.5	44.5	47.5	36.0	43.2	42.5	35.1		
30.0	-5.58	37.6	41.0	45.9	35.2	39.2	39.1	31.5		
25.0	-10.58	32.7	36.5	42.5	32.1	35.9	35.0	27.1		
20.0	-15.58	28.0	31.6	38.1	28.0	29.8	30.1	22.2		
15.0	-20.58	23.0	26.6	32.5	23.3	24.9	25.2	15.0		
10.0	-25.58	18.0	21.7	26.2	18.3	20.3	20.1	8.0		
5.0	-30.58	12.7	16.6	16.9	13.2	8.0	15.0	5.0		
0.0	-35.58	3.4	10.7	10.0	3.4	8.0	6.0	3.7		
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.2.6  
 Engr(s): TK, DML  
 Date: 3/4/98

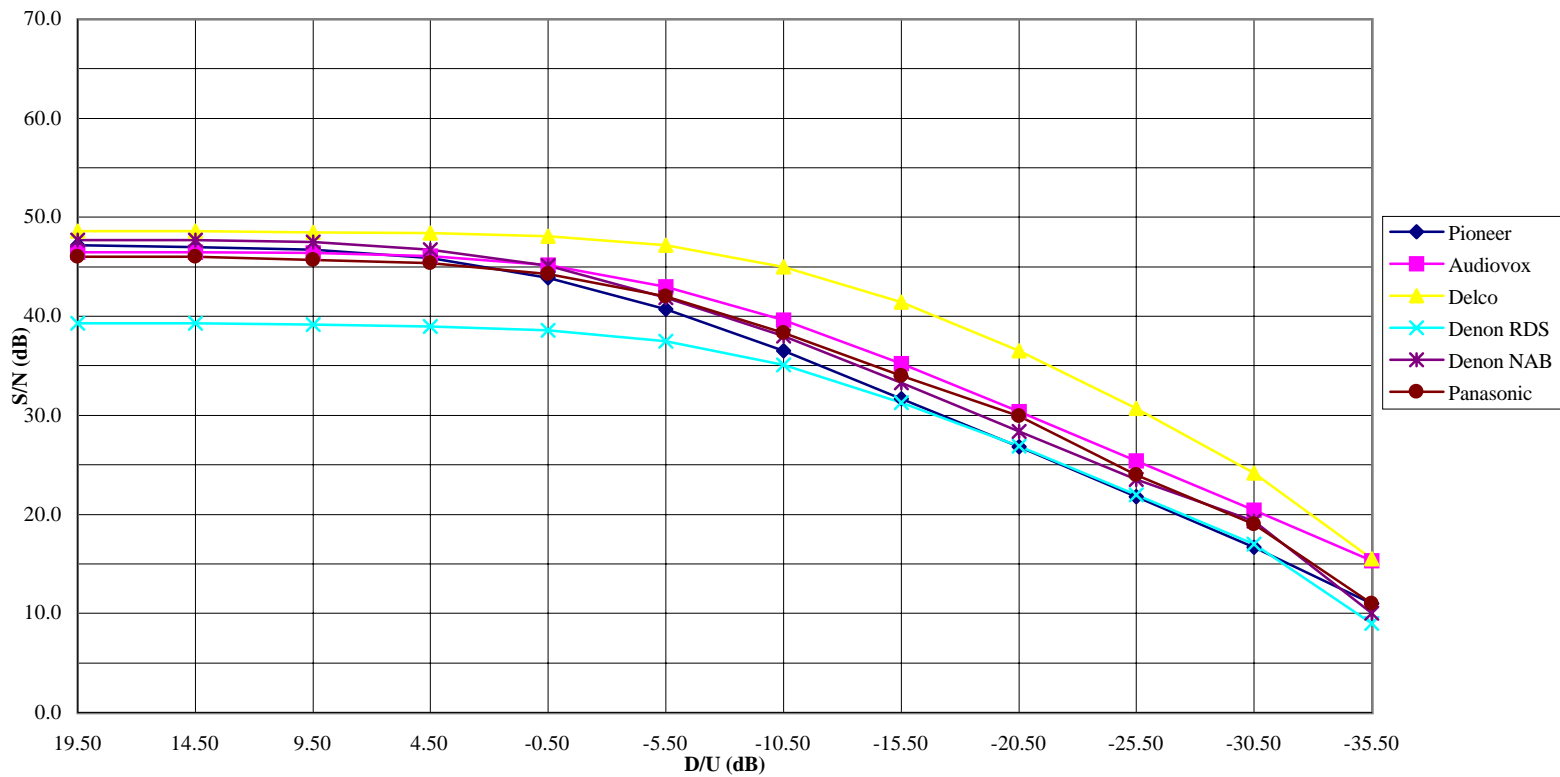
Signal Level: -71 dBm  
 Corrector Setting: 2

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.12	-2.62

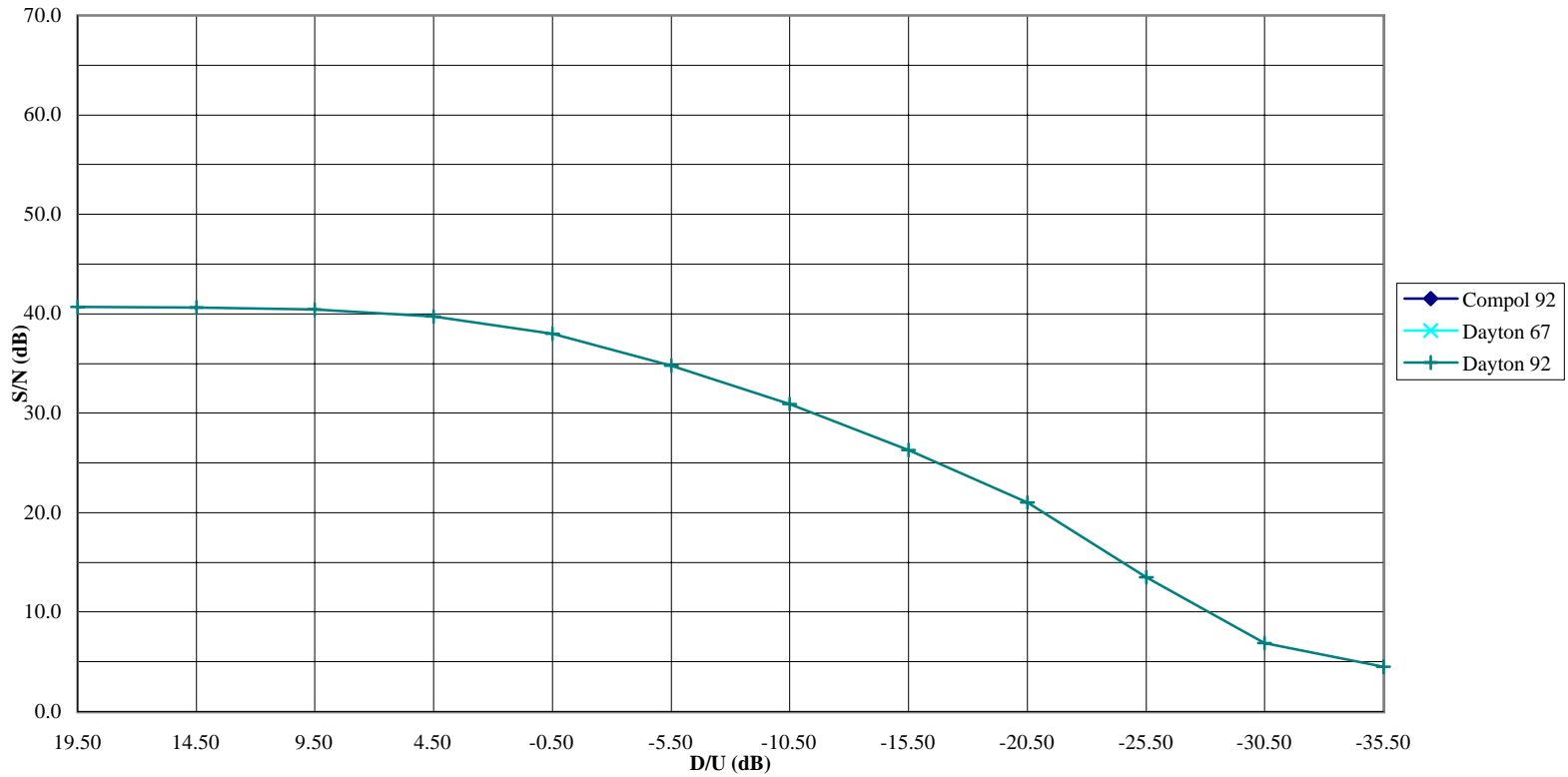
0 dB D/U = -35.50

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		47.2	46.5	48.7	39.3	47.7	46.0	40.7		
55.0	19.50	47.2	46.5	48.6	39.3	47.7	46.0	40.7		
50.0	14.50	47.0	46.5	48.6	39.3	47.7	46.0	40.6		
45.0	9.50	46.7	46.4	48.5	39.2	47.5	45.7	40.4		
40.0	4.50	45.9	46.1	48.4	39.0	46.7	45.4	39.7		
35.0	-0.50	43.9	45.2	48.1	38.6	45.1	44.3	38.0		
30.0	-5.50	40.7	43.0	47.2	37.5	41.9	42.0	34.8		
25.0	-10.50	36.5	39.6	45.0	35.1	38.0	38.3	30.9		
20.0	-15.50	31.7	35.2	41.4	31.3	33.3	34.0	26.3		
15.0	-20.50	26.8	30.4	36.5	26.9	28.4	29.9	21.0		
10.0	-25.50	21.8	25.4	30.7	22.0	23.5	24.0	13.5		
5.0	-30.50	16.7	20.4	24.2	17.0	19.3	19.0	6.9		
0.0	-35.50	11.0	15.3	15.5	9.0	10.0	11.0	4.5		
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U



Section: 4.2.7  
 Engr(s): TK, DML  
 Date: 3/3/98

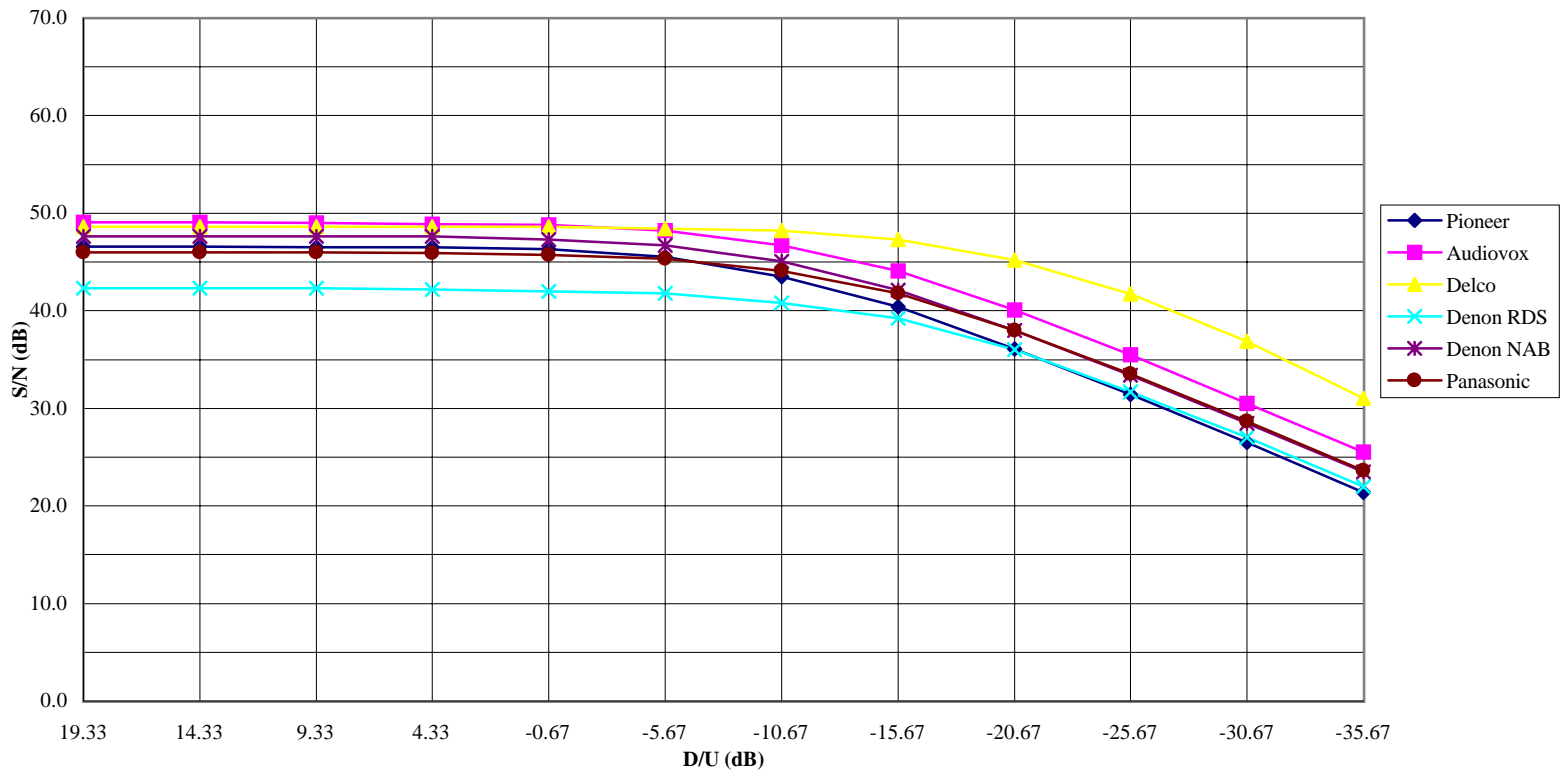
Signal Level: -71 dBm  
 Corrector Setting: 2

3 Way Combiner Levels	
Desired (dBm)	Undesired (dBm)
-38.19	-2.52

0 dB D/U = -35.67

Attn (dB)	D/U (dB)	Pioneer S/N (dB)	Audiovox S/N (dB)	Delco S/N (dB)	Denon		Panasonic S/N (dB)	Dayton 92 kHz S/N (dB)	Dayton 67 kHz S/N (dB)	Compol 92 kHz S/N (dB)
					RDS S/N (dB)	NAB S/N (dB)				
					S/N (dB)	S/N (dB)				
		46.6	49.1	48.6	42.3	47.6	46.0	41.5		
55.0	19.33	46.6	49.1	48.6	42.3	47.6	46.0	41.5		
50.0	14.33	46.6	49.1	48.6	42.3	47.6	46.0	41.5		
45.0	9.33	46.5	49.0	48.6	42.3	47.6	46.0	41.5		
40.0	4.33	46.5	48.9	48.6	42.2	47.6	45.9	41.4		
35.0	-0.67	46.3	48.8	48.6	42.0	47.3	45.7	41.2		
30.0	-5.67	45.5	48.2	48.4	41.8	46.7	45.3	40.4		
25.0	-10.67	43.5	46.7	48.2	40.8	45.1	44.1	38.6		
20.0	-15.67	40.4	44.1	47.3	39.2	42.1	41.8	35.5		
15.0	-20.67	36.1	40.1	45.2	36.0	38.0	38.0	31.5		
10.0	-25.67	31.4	35.5	41.7	31.7	33.4	33.5	27.0		
5.0	-30.67	26.5	30.5	36.9	27.0	28.5	28.7	22.0		
0.0	-35.67	21.4	25.5	31.0	22.0	23.5	23.6	14.4		
Psophometric								RMS		

Psophometric S/N vs. D/U



RMS S/N vs. D/U

