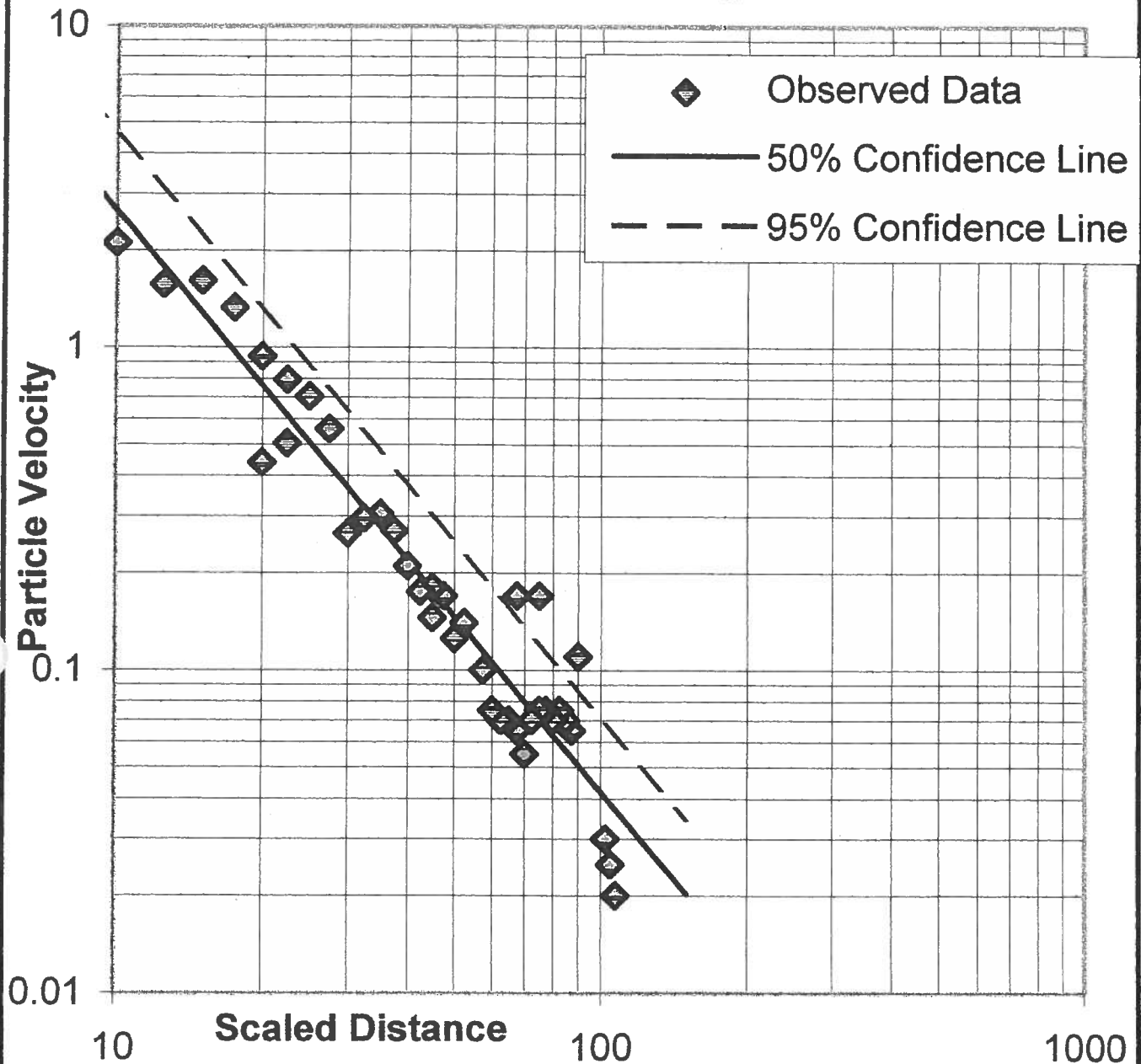


Appendix V

Ridge Road

Regression Analysis

CC&V Ridge Road



The 95% Confidence Equation

$$PPV = 286.0 \times (SD)^{-1.80}$$

The Correlation Coefficient r^2 is: 0.921

Prepared by MMC 6/17/97

REGRESSION ANALYSIS

CC&V Ridge Road

Data Statistics						
N	Max_PPV	Min_PPV	Max_SD	Min_SD		
40.0	2.11	0.02	108	10		
Calculated Sums						
Sum_X	Sum_Y	Sum_X2	Sum_Y2	Sum_XY		
152.6	-69.764	597.322	175.788	-293.8		
Sums Of Squares						
SS_X	SS_Y	SS_XY	SumXSumY	(SumX) ²		
15.42	54.11	-27.73	-10643.541	23276.090		
Calculated Means & Calculated Coefficients						
X_Bar	Y_Bar	a	K ₅₀	K ₉₅	K ₉₉	B ₅₀
3.814	-1.744	5.11	166.4	286.0	357.9	-1.80
Sample Standard Deviation & Coefficient of Correlation						
S	S _{e2}		r		r ²	
0.335	4.257		-0.960		0.921	
The 95% Confidence Level Equation						
PPV=	286.0	X (SD) ^A	-1.80			

Charge Weight per Delay
calculated from given distance and particle velocity
 $PV=286*(SD)^{-1.80}$

PV=0.1 ips

Distance (feet)	Charge Weight (pounds)	Distance (feet)	Charge Weight (pounds)
100	1.4	4,000	2,310.5
200	5.8	4,100	2,427.5
300	13.0	4,200	2,547.4
400	23.1	4,300	2,670.1
500	36.1	4,400	2,795.8
600	52.0	4,500	2,924.3
700	70.8	4,600	3,055.7
800	92.4	4,700	3,190.0
900	117.0	4,800	3,327.2
1,000	144.4	4,900	3,467.3
1,100	174.7	5,000	3,610.2
1,200	207.9	5,100	3,756.1
1,300	244.1	5,200	3,904.8
1,400	283.0	5,300	4,056.4
1,500	324.9	5,400	4,211.0
1,600	369.7	5,500	4,368.4
1,700	417.3	5,600	4,528.7
1,800	467.9	5,700	4,691.8
1,900	521.3	5,800	4,857.9
2,000	577.6	5,900	5,026.9
2,100	636.8	6,000	5,198.7
2,200	698.9	6,100	5,373.4
2,300	763.9	6,200	5,551.1
2,400	831.8	6,300	5,731.6
2,500	902.6	6,400	5,915.0
2,600	976.2	6,500	6,101.3
2,700	1,052.7	6,600	6,290.4
2,800	1,132.2	6,700	6,482.5
2,900	1,214.5	6,800	6,677.5
3,000	1,299.7	6,900	6,875.3
3,100	1,387.8	7,000	7,076.0
3,200	1,478.7	7,100	7,279.6
3,300	1,572.6	7,200	7,486.1
3,400	1,669.4	7,300	7,695.5
3,500	1,769.0	7,400	7,907.8
3,600	1,871.5	7,500	8,123.0
3,700	1,977.0	7,600	8,341.0
3,800	2,085.3	7,700	8,562.0
3,900	2,196.5	7,800	8,785.8

Charge Weight per Delay
calculated from given distance and particle velocity
 $PV=286*(SD)^{-1.80}$

PV=0.2 ips

Distance (feet)	Charge Weight (pounds)	Distance (feet)	Charge Weight (pounds)
100	3.1	4,000	4,991.0
200	12.5	4,100	5,243.7
300	28.1	4,200	5,502.6
400	49.9	4,300	5,767.8
500	78.0	4,400	6,039.2
600	112.3	4,500	6,316.8
700	152.9	4,600	6,600.7
800	199.6	4,700	6,890.8
900	252.7	4,800	7,187.1
1,000	311.9	4,900	7,489.7
1,100	377.4	5,000	7,798.5
1,200	449.2	5,100	8,113.6
1,300	527.2	5,200	8,434.9
1,400	611.4	5,300	8,762.4
1,500	701.9	5,400	9,096.2
1,600	798.6	5,500	9,436.2
1,700	901.5	5,600	9,782.4
1,800	1,010.7	5,700	10,134.9
1,900	1,126.1	5,800	10,493.7
2,000	1,247.8	5,900	10,858.6
2,100	1,375.7	6,000	11,229.8
2,200	1,509.8	6,100	11,607.3
2,300	1,650.2	6,200	11,991.0
2,400	1,796.8	6,300	12,380.9
2,500	1,949.6	6,400	12,777.1
2,600	2,108.7	6,500	13,179.5
2,700	2,274.0	6,600	13,588.1
2,800	2,445.6	6,700	14,003.0
2,900	2,623.4	6,800	14,424.1
3,000	2,807.5	6,900	14,851.5
3,100	2,997.7	7,000	15,285.1
3,200	3,194.3	7,100	15,724.9
3,300	3,397.0	7,200	16,171.0
3,400	3,606.0	7,300	16,623.3
3,500	3,821.3	7,400	17,081.8
3,600	4,042.7	7,500	17,546.6
3,700	4,270.5	7,600	18,017.7
3,800	4,504.4	7,700	18,494.9
3,900	4,744.6	7,800	18,978.4

Charge Weight per Delay
calculated from given distance and particle velocity
PV=286*(SD)^-1.80

PV=0.3 ips

Distance (feet)	Charge Weight (pounds)	Distance (feet)	Charge Weight (pounds)
100	4.9	4,000	7,831.6
200	19.6	4,100	8,228.0
300	44.1	4,200	8,634.3
400	78.3	4,300	9,050.3
500	122.4	4,400	9,476.2
600	176.2	4,500	9,911.8
700	239.8	4,600	10,357.2
800	313.3	4,700	10,812.4
900	396.5	4,800	11,277.4
1,000	489.5	4,900	11,752.2
1,100	592.3	5,000	12,236.8
1,200	704.8	5,100	12,731.2
1,300	827.2	5,200	13,235.3
1,400	959.4	5,300	13,749.3
1,500	1,101.3	5,400	14,273.0
1,600	1,253.0	5,500	14,806.5
1,700	1,414.6	5,600	15,349.8
1,800	1,585.9	5,700	15,903.0
1,900	1,767.0	5,800	16,465.8
2,000	1,957.9	5,900	17,038.5
2,100	2,158.6	6,000	17,621.0
2,200	2,369.0	6,100	18,213.3
2,300	2,589.3	6,200	18,815.3
2,400	2,819.4	6,300	19,427.2
2,500	3,059.2	6,400	20,048.8
2,600	3,308.8	6,500	20,680.2
2,700	3,568.3	6,600	21,321.4
2,800	3,837.5	6,700	21,972.4
2,900	4,116.5	6,800	22,633.2
3,000	4,405.2	6,900	23,303.8
3,100	4,703.8	7,000	23,984.1
3,200	5,012.2	7,100	24,674.3
3,300	5,330.4	7,200	25,374.2
3,400	5,658.3	7,300	26,084.0
3,500	5,996.0	7,400	26,803.5
3,600	6,343.6	7,500	27,532.8
3,700	6,700.9	7,600	28,271.9
3,800	7,068.0	7,700	29,020.8
3,900	7,444.9	7,800	29,779.5

Charge Weight per Delay
calculated from given distance and particle velocity
PV=286*(SD)^-1.80

PV=0.4 ips

Distance (feet)	Charge Weight (pounds)	Distance (feet)	Charge Weight (pounds)
100	6.7	4,000	10,781.2
200	27.0	4,100	11,327.0
300	60.6	4,200	11,886.3
400	107.8	4,300	12,459.1
500	168.5	4,400	13,045.3
600	242.6	4,500	13,645.0
700	330.2	4,600	14,258.2
800	431.2	4,700	14,884.9
900	545.8	4,800	15,525.0
1,000	673.8	4,900	16,178.6
1,100	815.3	5,000	16,845.7
1,200	970.3	5,100	17,526.3
1,300	1,138.8	5,200	18,220.3
1,400	1,320.7	5,300	18,927.8
1,500	1,516.1	5,400	19,648.8
1,600	1,725.0	5,500	20,383.3
1,700	1,947.4	5,600	21,131.2
1,800	2,183.2	5,700	21,892.7
1,900	2,432.5	5,800	22,667.6
2,000	2,695.3	5,900	23,455.9
2,100	2,971.6	6,000	24,257.8
2,200	3,261.3	6,100	25,073.1
2,300	3,564.5	6,200	25,901.9
2,400	3,881.2	6,300	26,744.2
2,500	4,211.4	6,400	27,600.0
2,600	4,555.1	6,500	28,469.2
2,700	4,912.2	6,600	29,351.9
2,800	5,282.8	6,700	30,248.1
2,900	5,666.9	6,800	31,157.8
3,000	6,064.4	6,900	32,080.9
3,100	6,475.5	7,000	33,017.6
3,200	6,900.0	7,100	33,967.7
3,300	7,338.0	7,200	34,931.2
3,400	7,789.4	7,300	35,908.3
3,500	8,254.4	7,400	36,898.8
3,600	8,732.8	7,500	37,902.8
3,700	9,224.7	7,600	38,920.3
3,800	9,730.1	7,700	39,951.2
3,900	10,248.9	7,800	40,995.7

Charge Weight per Delay
calculated from given distance and particle velocity
PV=286*(SD)^-1.80

PV=0.5 ips

Distance (feet)	Charge Weight (pounds)	Distance (feet)	Charge Weight (pounds)
100	8.6	4,000	13,814.9
200	34.5	4,100	14,514.2
300	77.7	4,200	15,230.9
400	138.1	4,300	15,964.8
500	215.9	4,400	16,716.0
600	310.8	4,500	17,484.4
700	423.1	4,600	18,270.2
800	552.6	4,700	19,073.1
900	699.4	4,800	19,893.4
1,000	863.4	4,900	20,730.9
1,100	1,044.7	5,000	21,585.7
1,200	1,243.3	5,100	22,457.8
1,300	1,459.2	5,200	23,347.1
1,400	1,692.3	5,300	24,253.7
1,500	1,942.7	5,400	25,177.6
1,600	2,210.4	5,500	26,118.7
1,700	2,495.3	5,600	27,077.1
1,800	2,797.5	5,700	28,052.8
1,900	3,117.0	5,800	29,045.8
2,000	3,453.7	5,900	30,056.0
2,100	3,807.7	6,000	31,083.4
2,200	4,179.0	6,100	32,128.2
2,300	4,567.5	6,200	33,190.2
2,400	4,973.4	6,300	34,269.5
2,500	5,396.4	6,400	35,366.1
2,600	5,836.8	6,500	36,479.9
2,700	6,294.4	6,600	37,611.0
2,800	6,769.3	6,700	38,759.3
2,900	7,261.4	6,800	39,925.0
3,000	7,770.9	6,900	41,107.9
3,100	8,297.6	7,000	42,308.0
3,200	8,841.5	7,100	43,525.5
3,300	9,402.7	7,200	44,760.2
3,400	9,981.2	7,300	46,012.1
3,500	10,577.0	7,400	47,281.4
3,600	11,190.0	7,500	48,567.9
3,700	11,820.3	7,600	49,871.7
3,800	12,467.9	7,700	51,192.7
3,900	13,132.8	7,800	52,531.0

Particle Velocity (+95%)
calculated from given distance and charge weight

$$PV = 286 \cdot (SD)^{-1.80}$$

Charge Weight = 100 pounds

Distance (feet)	PV (inches/second)	Distance (feet)	PV (inches/second)
100	4.533	4000	0.006
200	1.302	4100	0.006
300	0.627	4200	0.005
400	0.374	4300	0.005
500	0.250	4400	0.005
600	0.180	4500	0.005
700	0.137	4600	0.005
800	0.107	4700	0.004
900	0.087	4800	0.004
1000	0.072	4900	0.004
1100	0.061	5000	0.004
1200	0.052	5100	0.004
1300	0.045	5200	0.004
1400	0.039	5300	0.004
1500	0.035	5400	0.003
1600	0.031	5500	0.003
1700	0.028	5600	0.003
1800	0.025	5700	0.003
1900	0.023	5800	0.003
2000	0.021	5900	0.003
2100	0.019	6000	0.003
2200	0.017	6100	0.003
2300	0.016	6200	0.003
2400	0.015	6300	0.003
2500	0.014	6400	0.003
2600	0.013	6500	0.002
2700	0.012	6600	0.002
2800	0.011	6700	0.002
2900	0.011	6800	0.002
3000	0.010	6900	0.002
3100	0.009	7000	0.002
3200	0.009	7100	0.002
3300	0.008	7200	0.002
3400	0.008	7300	0.002
3500	0.008	7400	0.002
3600	0.007	7500	0.002
3700	0.007	7600	0.002
3800	0.006	7700	0.002
3900	0.006	7800	0.002

Particle Velocity (+95%)
calculated from given distance and charge weight
 $PV = 286 \cdot (SD)^{-1.80}$
Charge Weight = 200 pounds

Distance	PV	Distance	PV
(feet)	(inches/second)	(feet)	(inches/second)
100	8.458	4000	0.011
200	2.429	4100	0.011
300	1.171	4200	0.010
400	0.698	4300	0.010
500	0.467	4400	0.009
600	0.336	4500	0.009
700	0.255	4600	0.009
800	0.200	4700	0.008
900	0.162	4800	0.008
1000	0.134	4900	0.008
1100	0.113	5000	0.007
1200	0.097	5100	0.007
1300	0.084	5200	0.007
1400	0.073	5300	0.007
1500	0.065	5400	0.006
1600	0.058	5500	0.006
1700	0.052	5600	0.006
1800	0.047	5700	0.006
1900	0.042	5800	0.006
2000	0.038	5900	0.005
2100	0.035	6000	0.005
2200	0.032	6100	0.005
2300	0.030	6200	0.005
2400	0.028	6300	0.005
2500	0.026	6400	0.005
2600	0.024	6500	0.005
2700	0.022	6600	0.004
2800	0.021	6700	0.004
2900	0.020	6800	0.004
3000	0.019	6900	0.004
3100	0.017	7000	0.004
3200	0.017	7100	0.004
3300	0.016	7200	0.004
3400	0.015	7300	0.004
3500	0.014	7400	0.004
3600	0.013	7500	0.004
3700	0.013	7600	0.003
3800	0.012	7700	0.003
3900	0.012	7800	0.003

Particle Velocity (+95%)
calculated from given distance and charge weight
 $PV = 286 \cdot (SD)^{-1.80}$
Charge Weight = 300 pounds

Distance (feet)	PV (inches/second)	Distance (feet)	PV (inches/second)
100	12.184	4000	0.016
200	3.499	4100	0.015
300	1.686	4200	0.015
400	1.005	4300	0.014
500	0.672	4400	0.013
600	0.484	4500	0.013
700	0.367	4600	0.012
800	0.289	4700	0.012
900	0.233	4800	0.011
1000	0.193	4900	0.011
1100	0.163	5000	0.011
1200	0.139	5100	0.010
1300	0.120	5200	0.010
1400	0.105	5300	0.010
1500	0.093	5400	0.009
1600	0.083	5500	0.009
1700	0.074	5600	0.009
1800	0.067	5700	0.008
1900	0.061	5800	0.008
2000	0.055	5900	0.008
2100	0.051	6000	0.008
2200	0.047	6100	0.007
2300	0.043	6200	0.007
2400	0.040	6300	0.007
2500	0.037	6400	0.007
2600	0.035	6500	0.007
2700	0.032	6600	0.006
2800	0.030	6700	0.006
2900	0.028	6800	0.006
3000	0.027	6900	0.006
3100	0.025	7000	0.006
3200	0.024	7100	0.006
3300	0.023	7200	0.006
3400	0.021	7300	0.005
3500	0.020	7400	0.005
3600	0.019	7500	0.005
3700	0.018	7600	0.005
3800	0.017	7700	0.005
3900	0.017	7800	0.005

Particle Velocity (+95%)
calculated from given distance and charge weight

$$PV = 286 \cdot (SD)^{-1.80}$$

Charge Weight = 400 pounds

Distance (feet)	PV (inches/second)	Distance (feet)	PV (inches/second)
100	15.784	4000	0.021
200	4.533	4100	0.020
300	2.185	4200	0.019
400	1.302	4300	0.018
500	0.871	4400	0.017
600	0.627	4500	0.017
700	0.475	4600	0.016
800	0.374	4700	0.015
900	0.302	4800	0.015
1000	0.250	4900	0.014
1100	0.211	5000	0.014
1200	0.180	5100	0.013
1300	0.156	5200	0.013
1400	0.137	5300	0.012
1500	0.121	5400	0.012
1600	0.107	5500	0.012
1700	0.096	5600	0.011
1800	0.087	5700	0.011
1900	0.079	5800	0.011
2000	0.072	5900	0.010
2100	0.066	6000	0.010
2200	0.061	6100	0.010
2300	0.056	6200	0.009
2400	0.052	6300	0.009
2500	0.048	6400	0.009
2600	0.045	6500	0.009
2700	0.042	6600	0.008
2800	0.039	6700	0.008
2900	0.037	6800	0.008
3000	0.035	6900	0.008
3100	0.033	7000	0.008
3200	0.031	7100	0.007
3300	0.029	7200	0.007
3400	0.028	7300	0.007
3500	0.026	7400	0.007
3600	0.025	7500	0.007
3700	0.024	7600	0.006
3800	0.023	7700	0.006
3900	0.022	7800	0.006

Particle Velocity (+95%)
calculated from given distance and charge weight

$$PV = 286 \cdot (SD)^{-1.80}$$

Charge Weight = 500 pounds

Distance	PV	Distance	PV
(feet)	(inches/second)	(feet)	(inches/second)
100	19.295	4000	0.025
200	5.541	4100	0.024
300	2.671	4200	0.023
400	1.591	4300	0.022
500	1.065	4400	0.021
600	0.767	4500	0.020
700	0.581	4600	0.020
800	0.457	4700	0.019
900	0.370	4800	0.018
1000	0.306	4900	0.018
1100	0.258	5000	0.017
1200	0.220	5100	0.016
1300	0.191	5200	0.016
1400	0.167	5300	0.015
1500	0.147	5400	0.015
1600	0.131	5500	0.014
1700	0.118	5600	0.014
1800	0.106	5700	0.013
1900	0.096	5800	0.013
2000	0.088	5900	0.013
2100	0.080	6000	0.012
2200	0.074	6100	0.012
2300	0.068	6200	0.011
2400	0.063	6300	0.011
2500	0.059	6400	0.011
2600	0.055	6500	0.011
2700	0.051	6600	0.010
2800	0.048	6700	0.010
2900	0.045	6800	0.010
3000	0.042	6900	0.009
3100	0.040	7000	0.009
3200	0.038	7100	0.009
3300	0.036	7200	0.009
3400	0.034	7300	0.009
3500	0.032	7400	0.008
3600	0.030	7500	0.008
3700	0.029	7600	0.008
3800	0.028	7700	0.008
3900	0.026	7800	0.008

Ridge Road Test Site

	Distance (feet)	Charge Weight (pounds)	Particle Velocity (inches/second)	Hole #	Instrument #	Time
1	275	100	0.560	RR-1	BA5552	9:08:04
2	475	100	0.170	RR-1	BC5571	9:08:03
3	675	100	0.065	RR-1	BC5570	9:08:05
4	875	100	0.065	RR-1	BC5536	9:08:03
5	1075	100	0.020	RR-1	BA5546	9:07:05
6	250	100	0.705	RR-2	BA5552	9:28:28
7	450	100	0.180	RR-2	BC5571	9:28:27
8	650	100	0.070	RR-2	BC5570	9:28:29
9	850	100	0.070	RR-2	BC5536	9:28:27
10	1050	100	0.025	RR-2	BA5546	9:27:29
11	225	100	0.795	RR-3	BA5552	9:35:34
12	425	100	0.175	RR-3	BC5571	9:35:33
13	625	100	0.070	RR-3	BC5570	9:35:35
14	825	100	0.075	RR-3	BC5536	9:35:33
15	1025	100	0.030	RR-3	BA5546	9:34:35
16	200	100	0.940	RR-4	BA5552	10:08:52
17	400	100	0.210	RR-4	BC5571	10:08:51
18	600	100	0.075	RR-4	BC5570	10:08:53
19	800	100	0.070	RR-4	BC5536	10:08:51
20	900	100	0.110	RR-4	BA5546	10:07:53
21	175	100	1.330	RR-5	BA5552	10:18:54
22	375	100	0.270	RR-5	BC5571	10:18
23	575	100	0.100	RR-5	BC5570	10:18:54
24	775	100	0.075	RR-5	BC5536	10:18:53
25	675	100	0.170	RR-5	BA5546	10:17:55
26	150	100	1.610	RR-6	BA5552	10:29:21
27	350	100	0.305	RR-6	BC5571	10:29:20
28	550	100	0.145	RR-6	BC5570	10:29:22
29	450	100	0.075	RR-6	BC5536	10:29:20
30	750	100	0.170	RR-6	BA5546	10:28:22
31	125	100	1.570	RR-7	BA5552	10:38:56
32	325	100	0.295	RR-7	BC5571	10:38:56
33	525	100	0.140	RR-7	BC5570	10:38:56
34	725	100	0.070	RR-7	BC5536	10:38:55
35	225	100	0.505	RR-7	BA5546	10:37:56
36	400	100	2.110	RR-8	BA5552	10:41:10
37	300	100	0.265	RR-8	BC5571	10:41:09
38	500	100	0.125	RR-8	BC5570	10:41:10
39	700	100	0.055	RR-8	BC5536	10:41:19
40	200	100	0.440	RR-8	BA5546	10:40:11

AP-4

Date/Time Vert at 09:08:04 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 1.75 sec (Auto=1 sec) at 1024 sps

Serial Number BA5552 V 3.11-3.11 BlastMate III
 Battery Level 6.6 Volts
 Calibration January 10, 1997 by Instantel Inc.
 File Name G5526H3G.1G0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

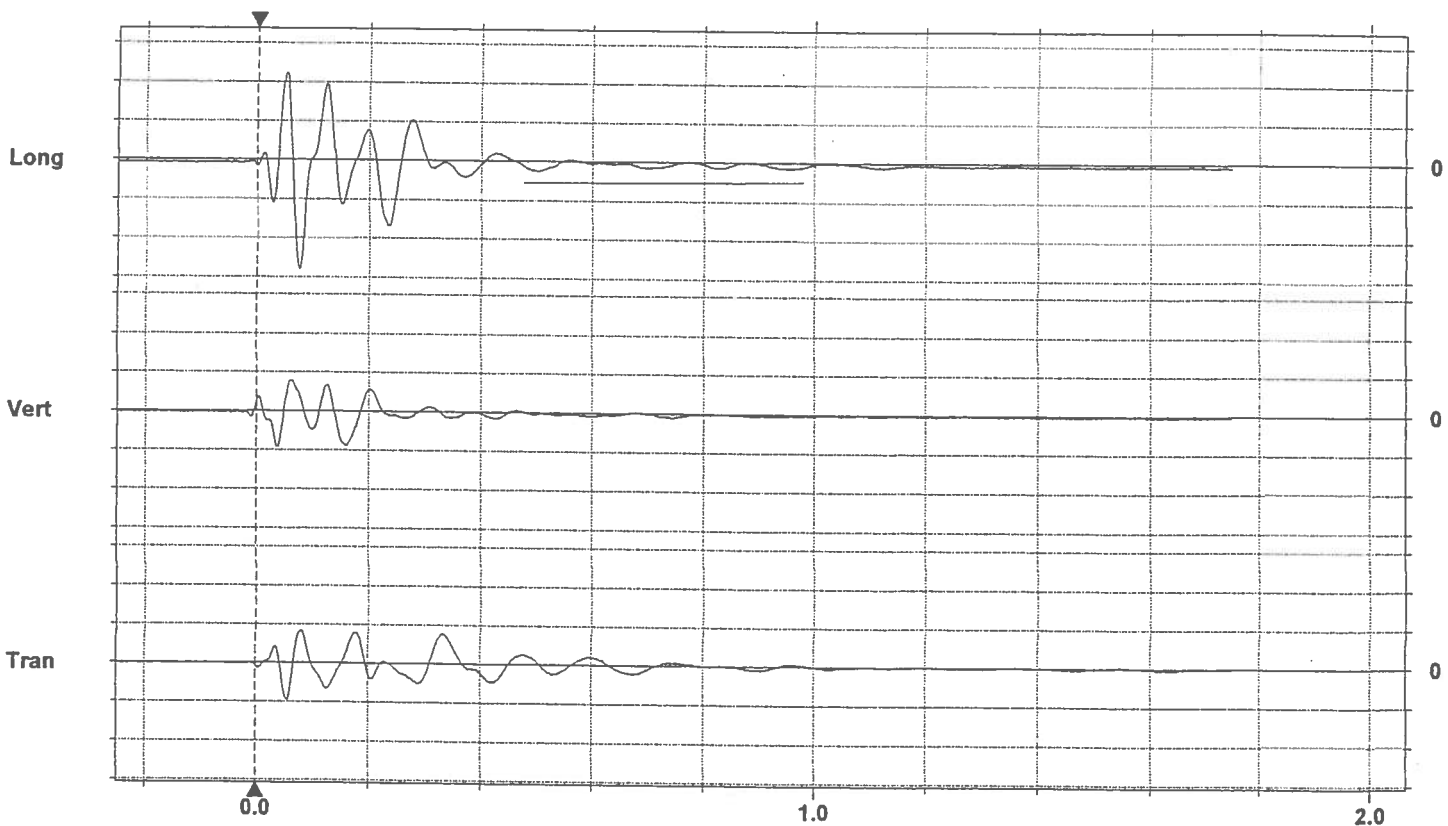
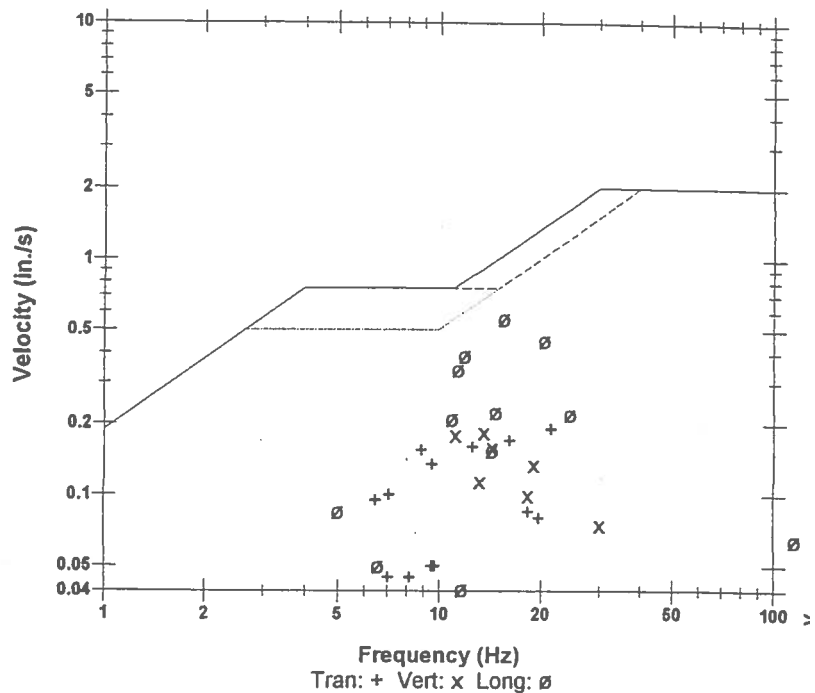
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.190	0.185	0.560	in./s
ZC Freq	21	13	16	Hz
Time (Rel. to Trig)	0.056	0.037	0.076	sec
Peak Acceleration	0.0663	0.0663	0.172	g
Peak Displacement	0.00259	0.00257	0.00515	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.587 in./s at 0.077 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.200 in./s/div
 Trigger = ▸

Date/Time Long at 09:08:03 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5571 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by InstanTel Inc.
 File Name G5716H3G.1F0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

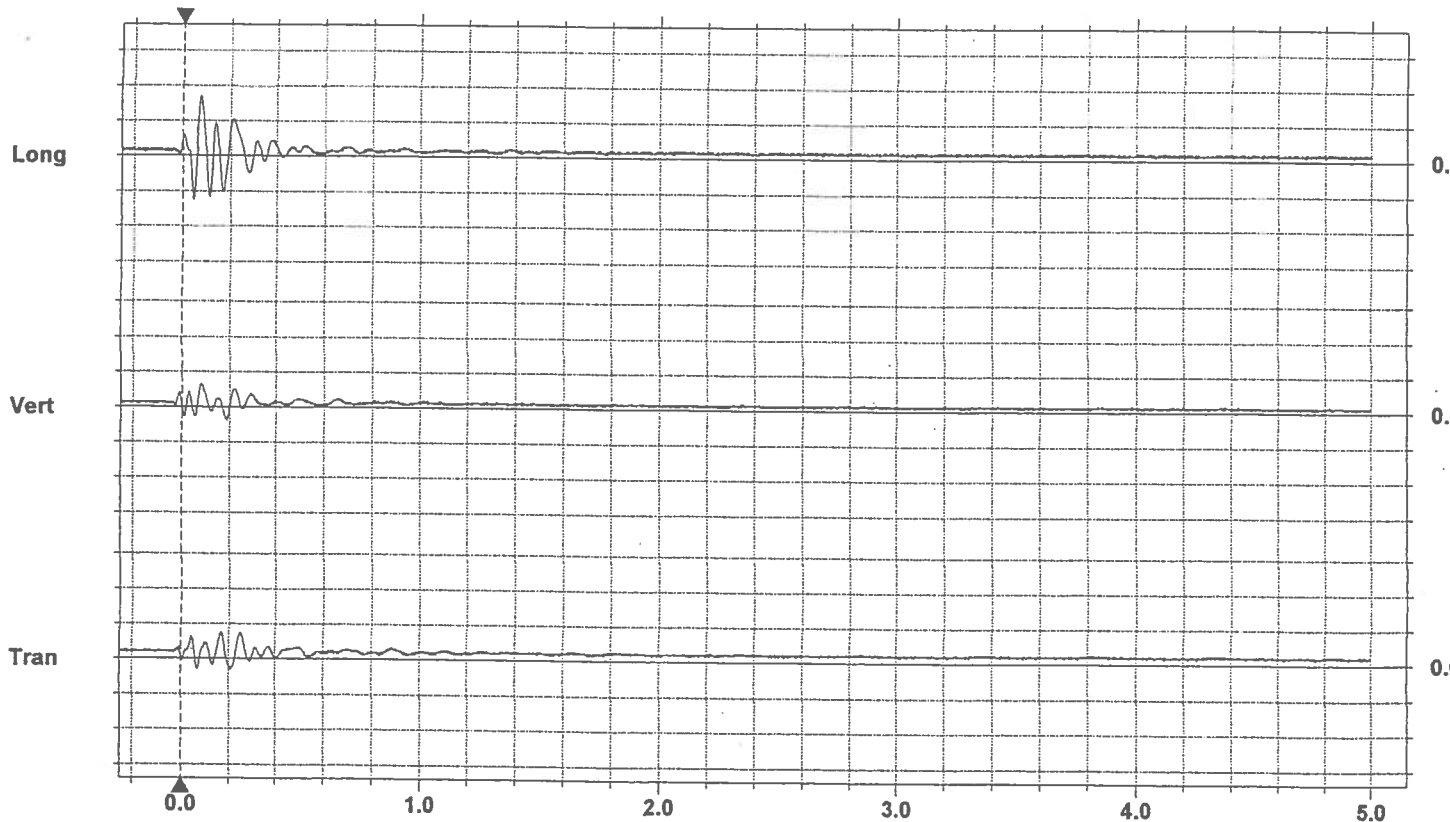
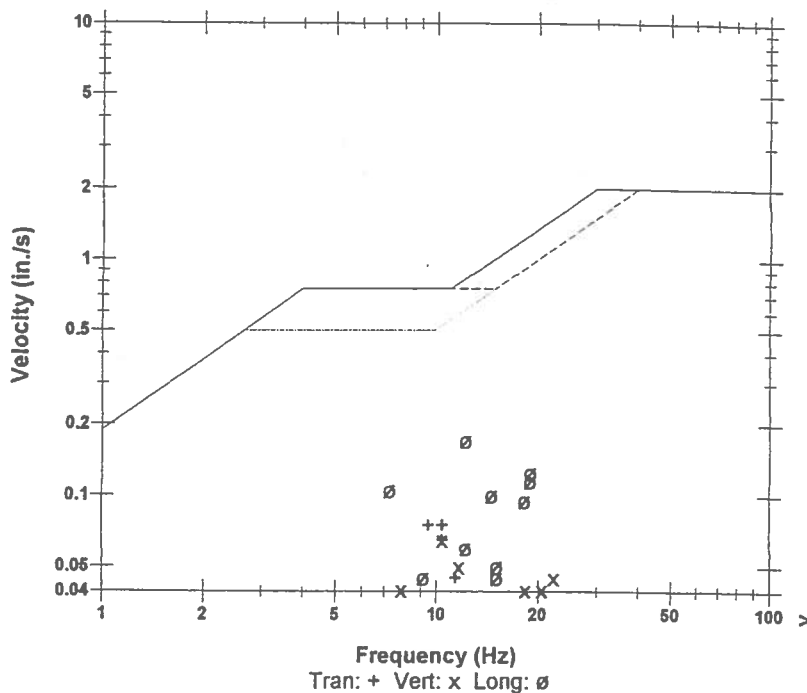
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0750	0.0650	0.170	in./s
ZC Freq	10	10	12	Hz
Time (Rel. to Trig)	0.167	0.077	0.071	sec
Peak Acceleration	0.0265	0.0265	0.0530	g
Peak Displacement	0.00259	0.00154	0.00229	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.180 in./s at 0.075 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 09:08:05 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5570 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by Instantel Inc.
 File Name G5706H3G.1H0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

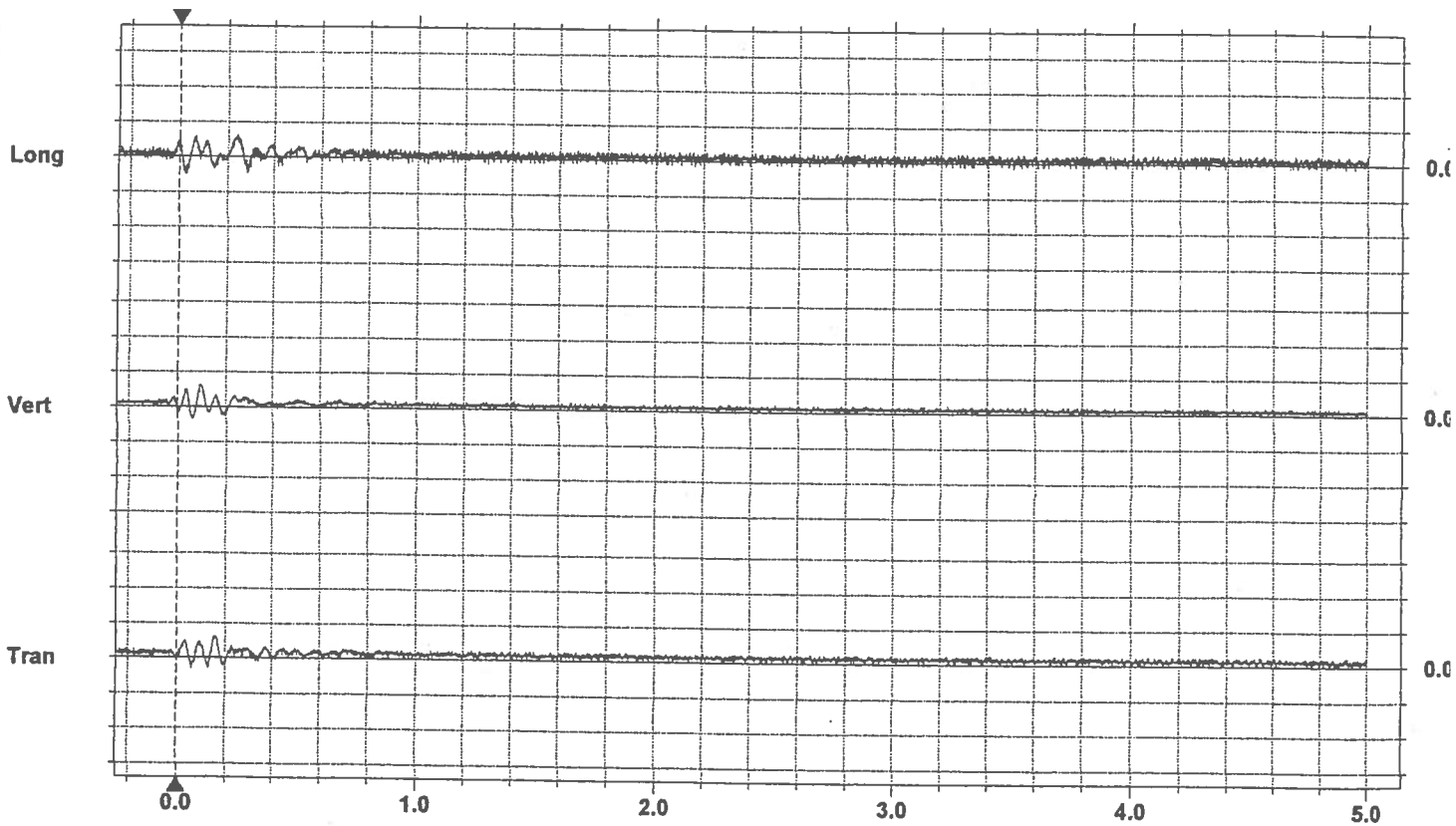
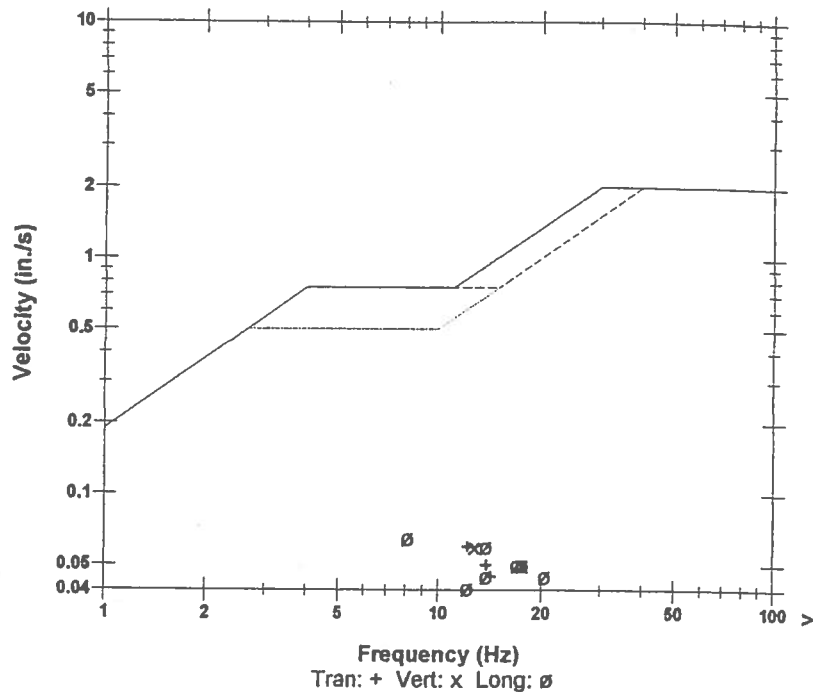
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0600	0.0600	0.0650	in./s
ZC Freq	12	13	8.1	Hz
Time (Rel. to Trig)	0.151	0.088	0.238	sec
Peak Acceleration	0.0530	0.0530	0.0795	g
Peak Displacement	0.00081	0.00110	0.00110	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0838 in./s at 0.032 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 09:08:03 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5536 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 10, 1997 by InstanTel Inc.
 File Name G5366H3G.1F0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

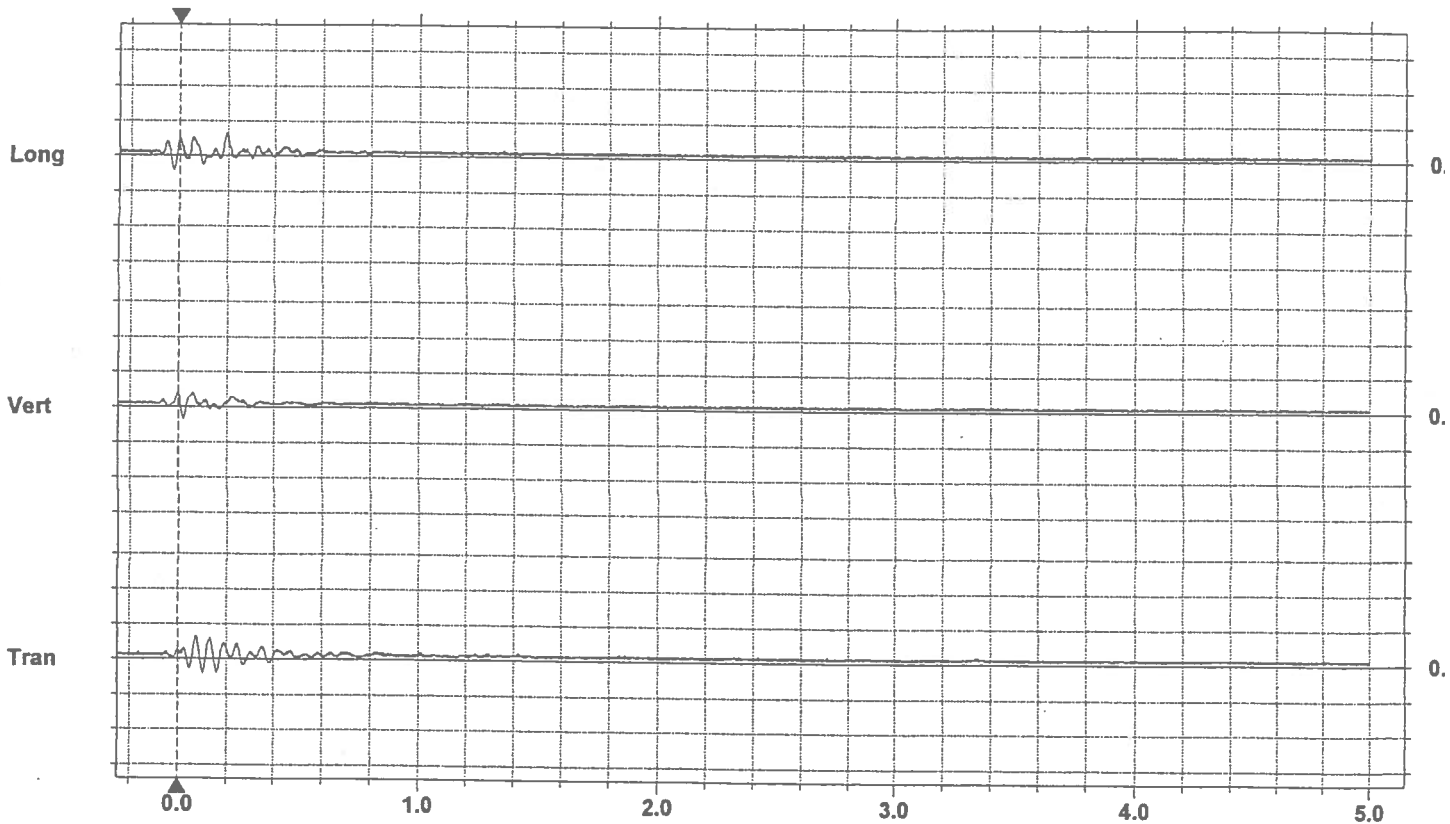
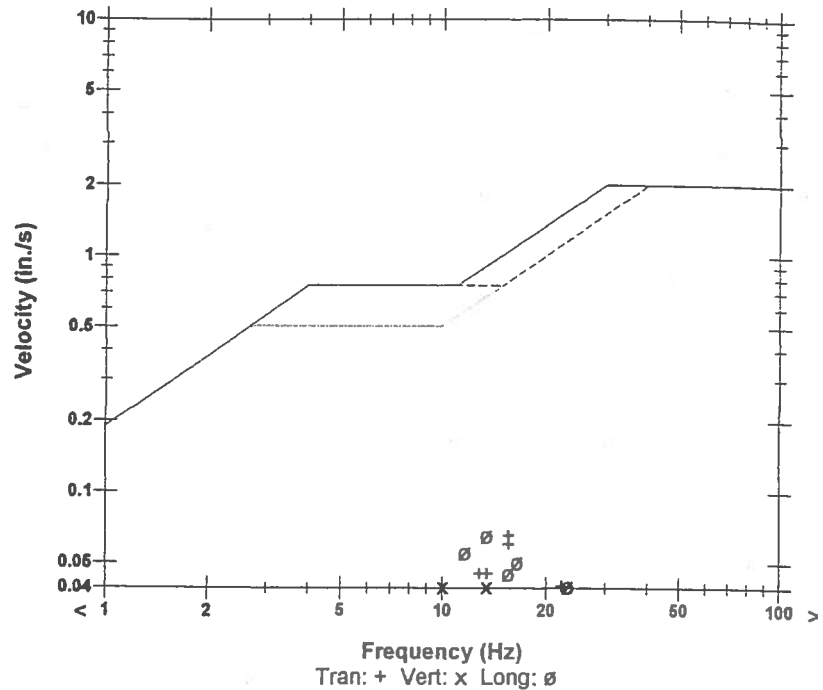
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0650	0.0400	0.0650	in./s
ZC Freq	16	13	13	Hz
Time (Rel. to Trig)	0.070	-0.004	0.194	sec
Peak Acceleration	0.0265	0.0265	0.0265	g
Peak Displacement	0.0197	0.00910	0.00178	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0770 in./s at 0.194 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Vert at 09:07:05 May 29, 1997
 Trigger Source Geo: 0.0200 in./s
 Range Geo: 10.00 in./s
 Record Time 1.25 sec (Auto=1 sec) at 1024 sps

Serial Number BA5546 V 3.11-3.11 BlastMate III
 Battery Level 6.1 Volts
 Calibration February 14, 1997 by Instantel Inc.
 File Name G5466H3F.ZT0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

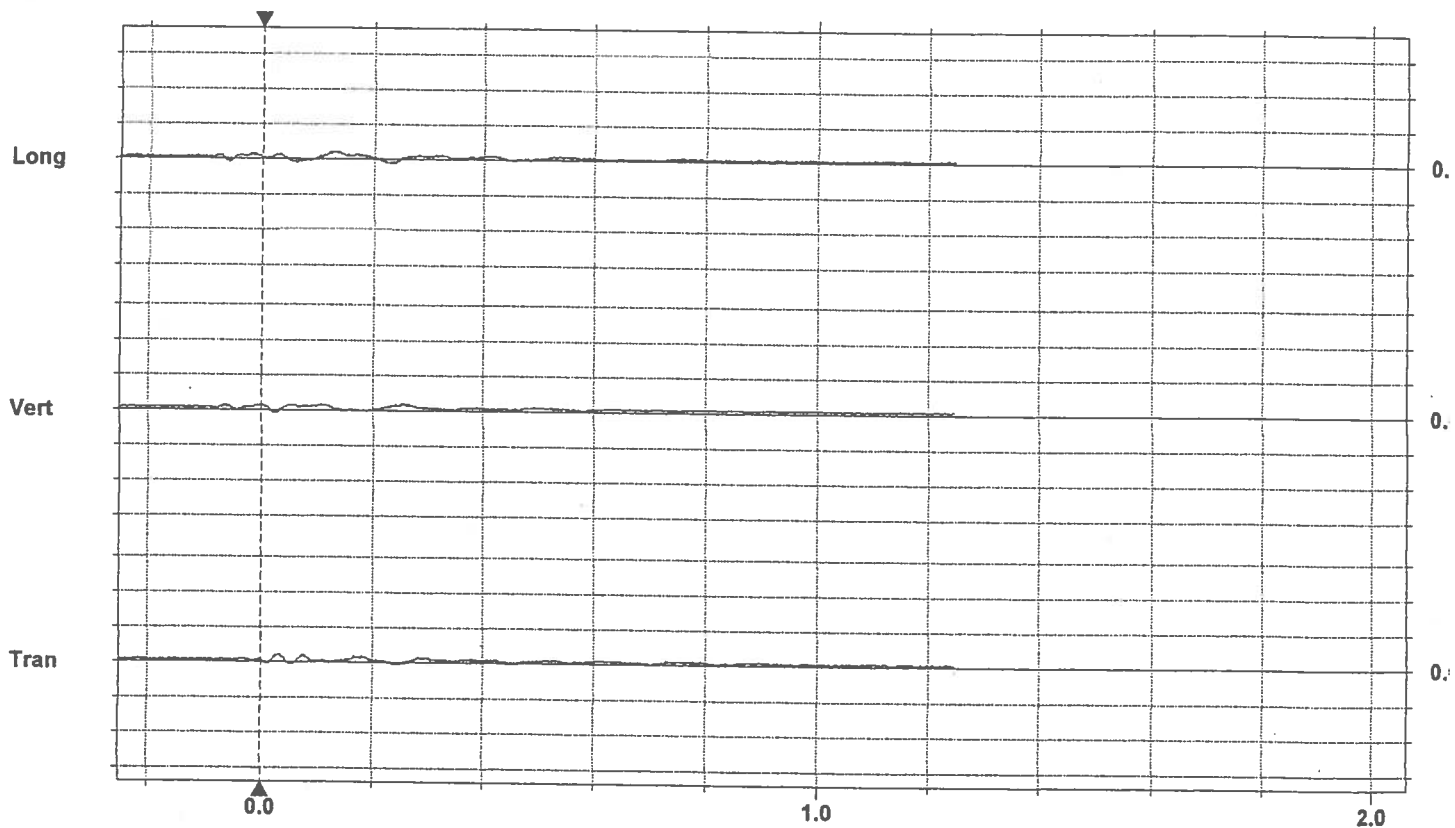
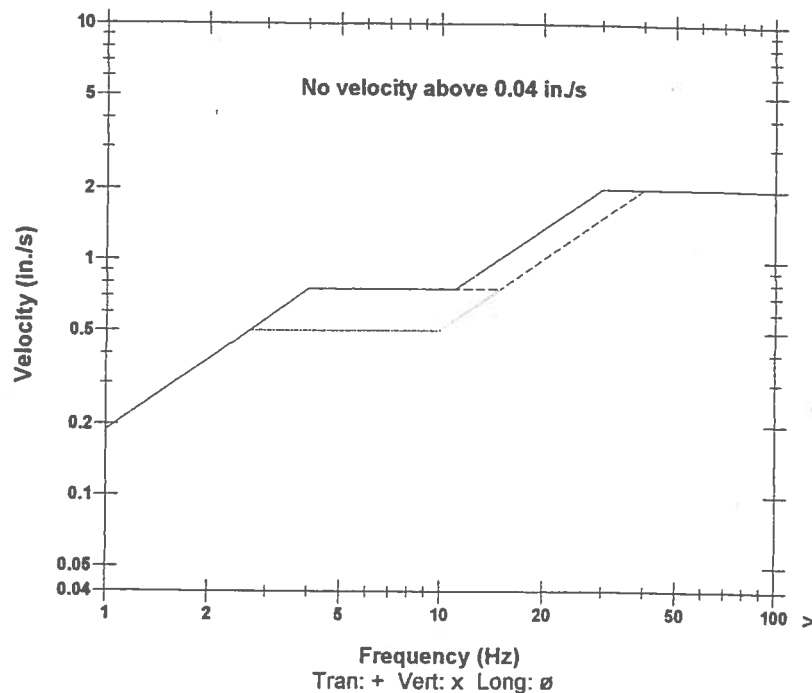
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0200	0.0200	0.0200	in./s
ZC Freq	21	12	6.6	Hz
Time (Rel. to Trig)	0.025	0.000	0.121	sec
Peak Acceleration	0.0265	0.0133	0.0265	g
Peak Displacement	0.00025	0.00057	0.00052	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0255 in./s at 0.025 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Date/Time Vert at 09:28:28 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 1.75 sec (Auto=1 sec) at 1024 sps

Serial Number BA5552 V 3.11-3.11 BlastMate III
 Battery Level 6.5 Volts
 Calibration January 10, 1997 by Instantel Inc.
 File Name G5526H3G.ZG0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

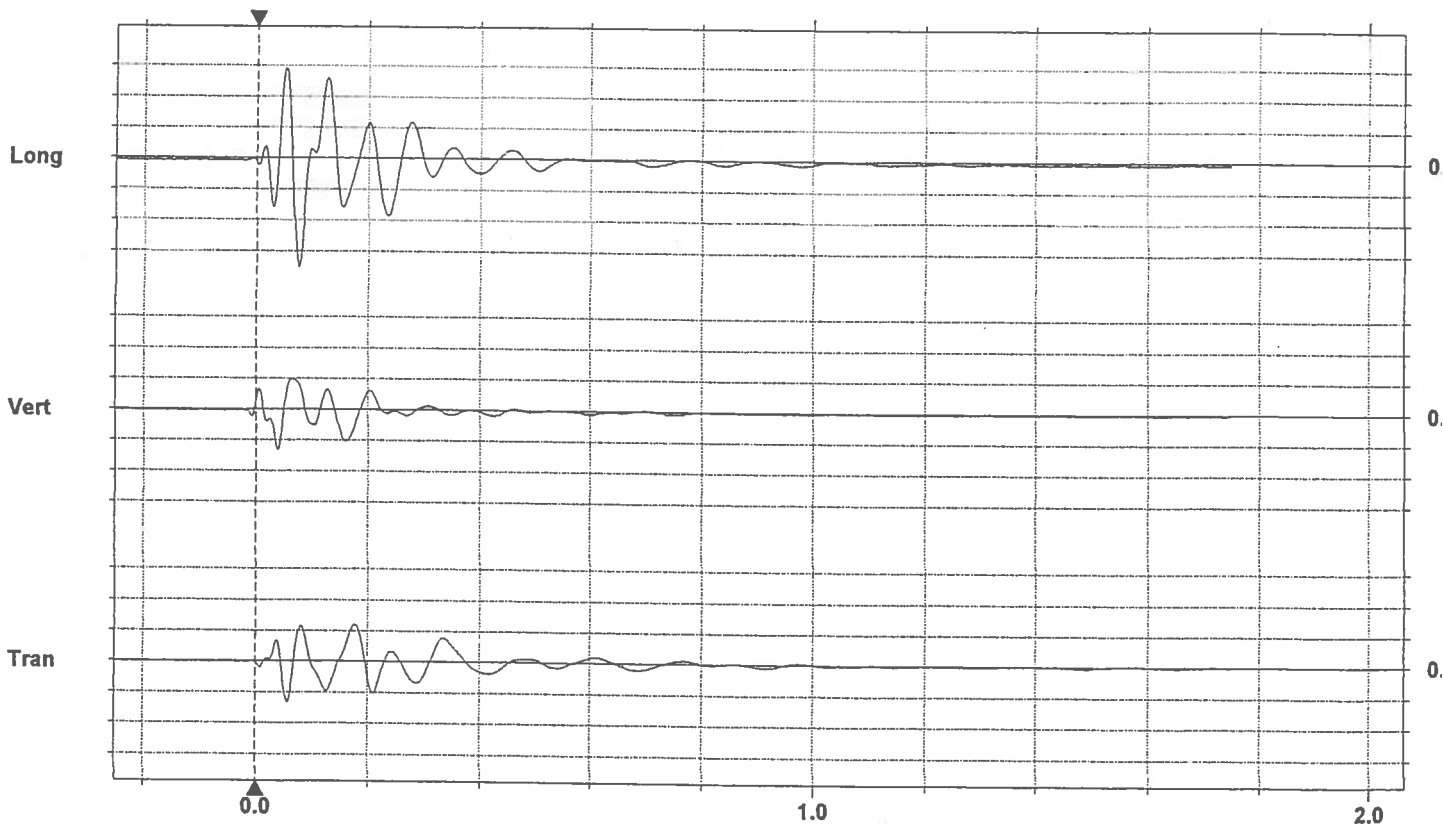
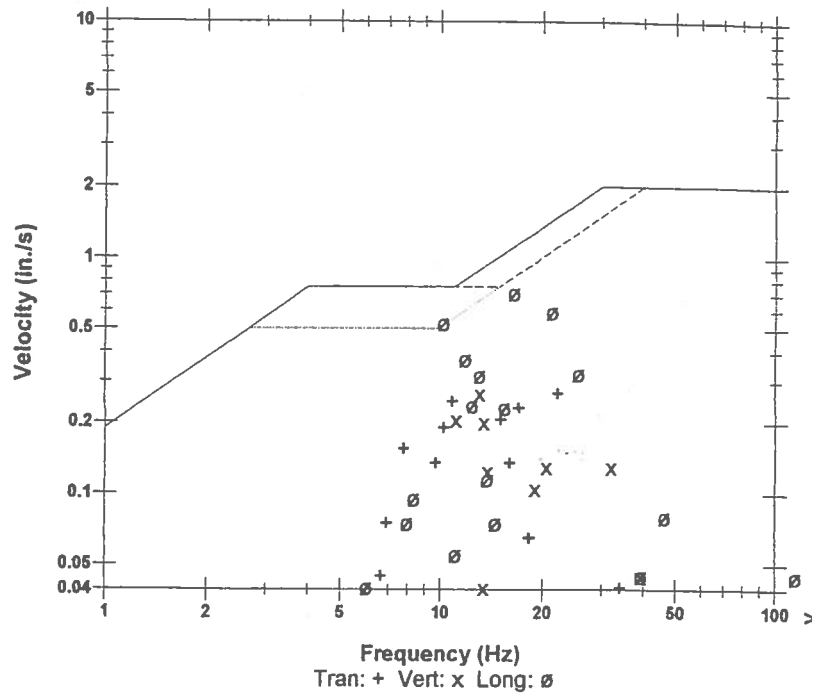
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.265	0.265	0.705	in./s
ZC Freq	22	13	17	Hz
Time (Rel. to Trig)	0.058	0.040	0.076	sec
Peak Acceleration	0.0928	0.0928	0.225	g
Peak Displacement	0.00317	0.00287	0.00620	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.750 in./s at 0.076 sec

N/A: Not Applicable

USBM R18507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.200 in./s/div
 Trigger =

Date/Time Vert at 09:28:27 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5571 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by Instantel Inc.
 File Name G5716H3G.ZF0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

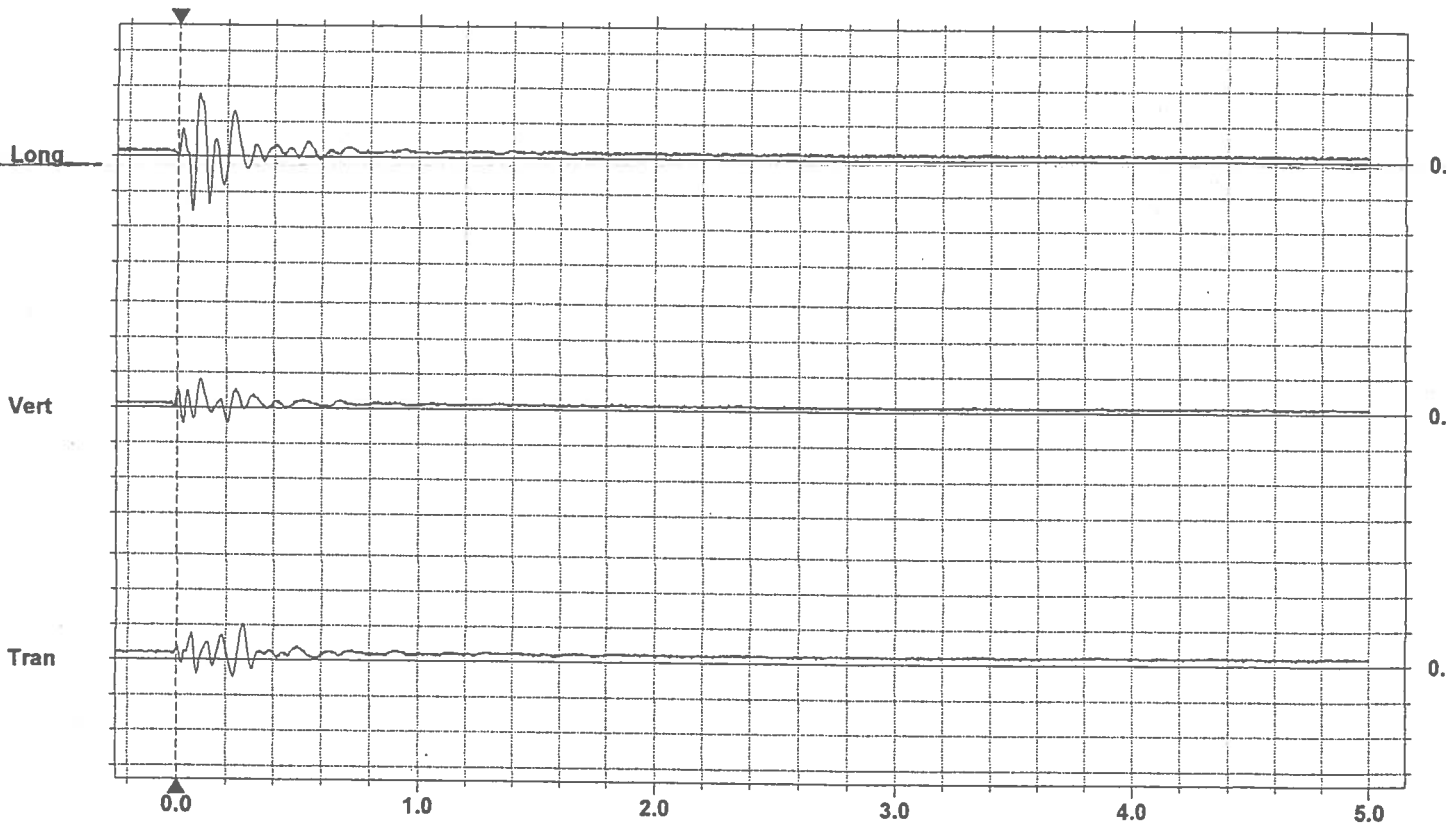
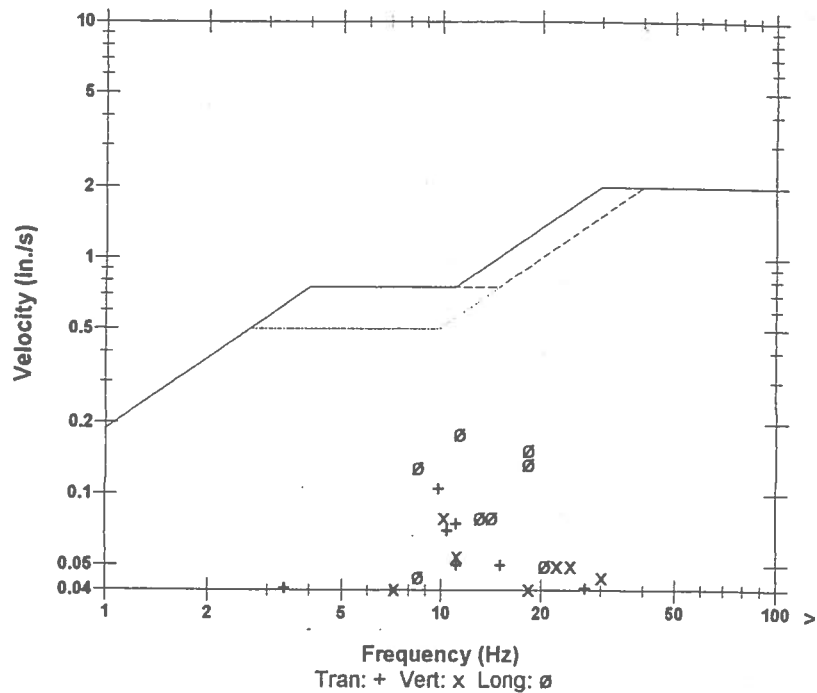
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.105	0.0800	0.180	in./s
ZC Freq	9.8	10	11	Hz
Time (Rel. to Trig)	0.271	0.091	0.086	sec
Peak Acceleration	0.0398	0.0265	0.0530	g
Peak Displacement	0.00273	0.00166	0.00280	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.195 in./s at 0.086 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 09:28:29 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5570 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by Instantel Inc.
 File Name G5706H3G.ZH0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

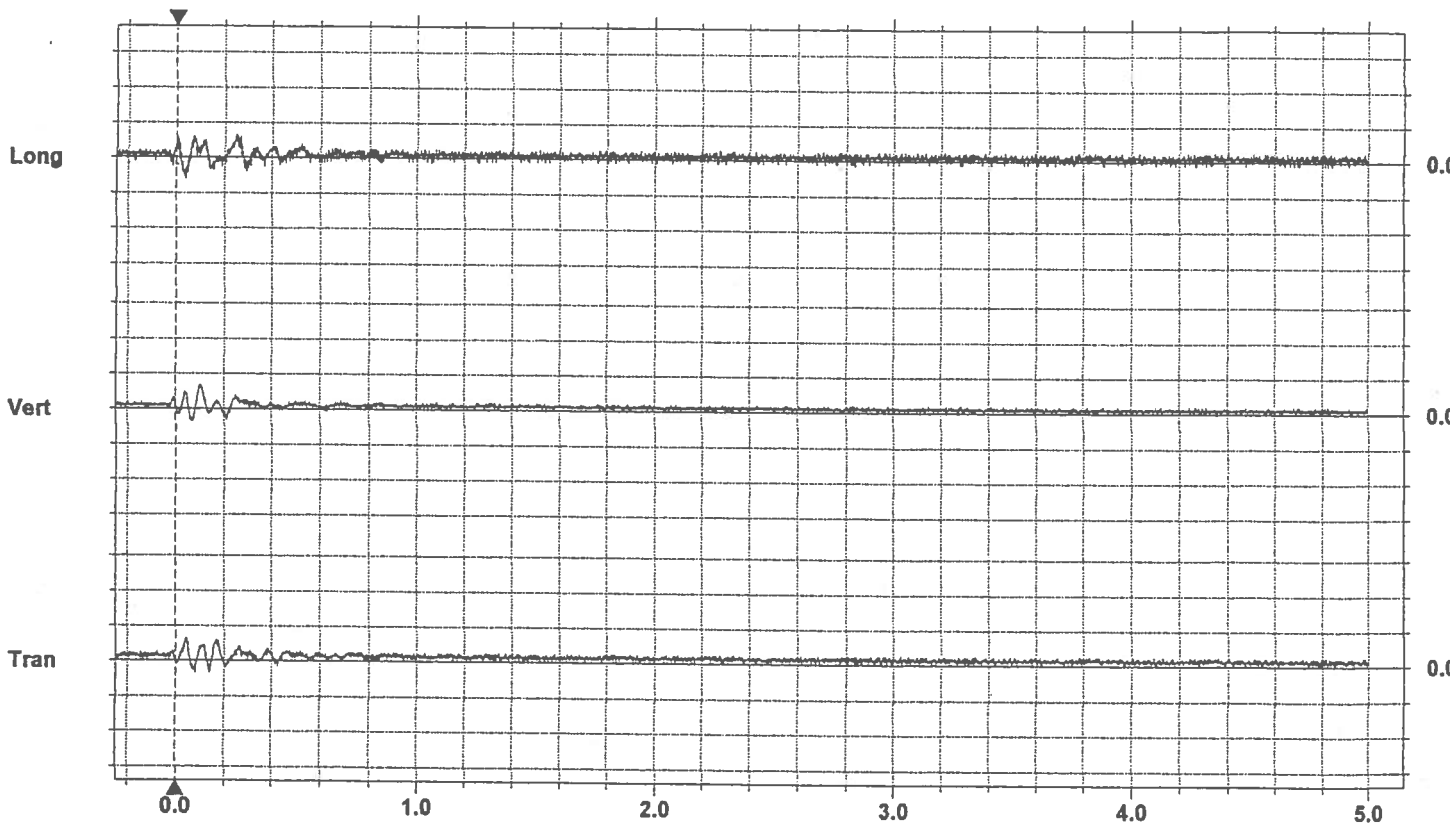
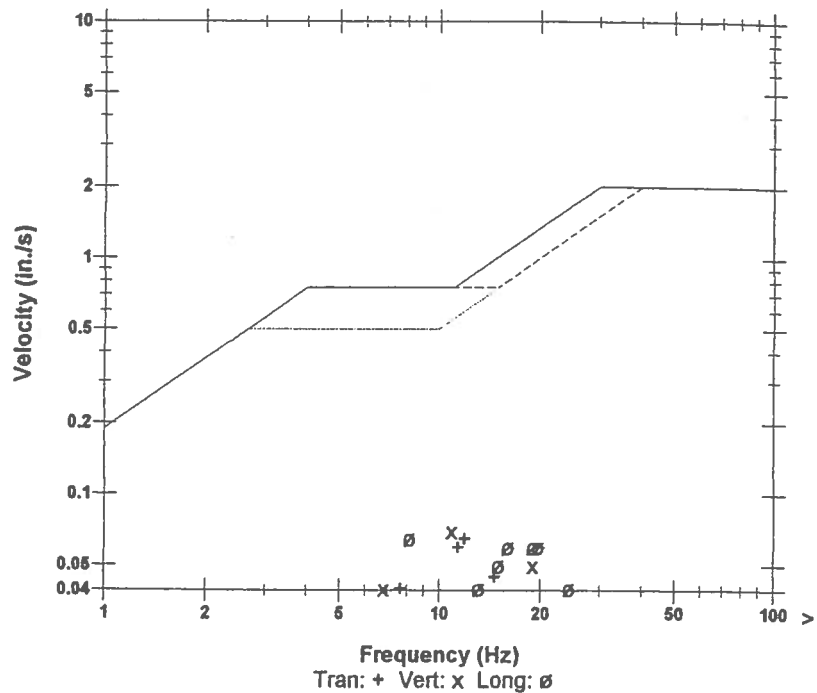
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0650	0.0700	0.0650	in./s
ZC Freq	12	11	8.1	Hz
Time (Rel. to Trig)	0.042	0.103	0.246	sec
Peak Acceleration	0.0530	0.0398	0.0795	g
Peak Displacement	0.00092	0.00092	0.00109	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0955 in./s at 0.038 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 09:28:27 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5536 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 10, 1997 by InstanTel Inc.
 File Name G5366H3G.ZF0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

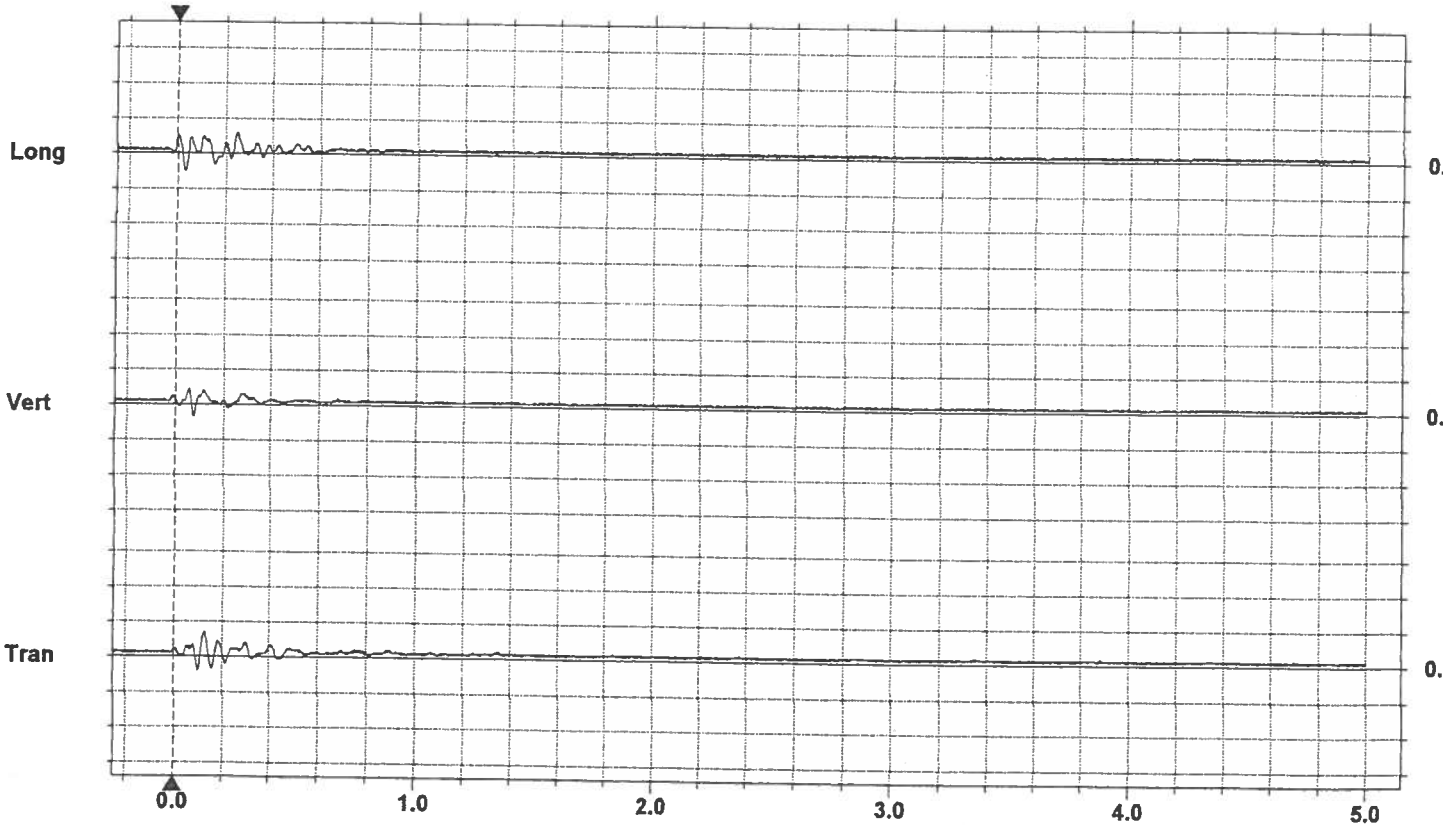
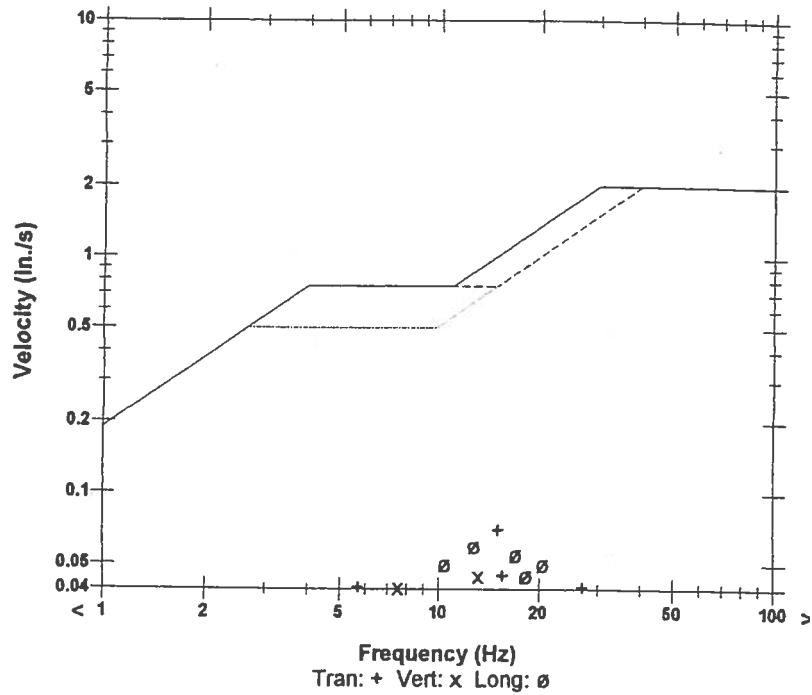
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0700	0.0450	0.0600	in./s
ZC Freq	15	13	13	Hz
Time (Rel. to Trig)	0.124	0.055	0.246	sec
Peak Acceleration	0.0398	0.0265	0.0265	g
Peak Displacement	0.00189	0.00798	0.00135	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0860 in./s at 0.124 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 09:27:29 May 29, 1997
 Trigger Source Geo: 0.0200 in./s
 Range Geo: 10.00 in./s
 Record Time 1.25 sec (Auto=1 sec) at 1024 sps

Serial Number BA5546 V 3.11-3.11 BlastMate III
 Battery Level 6.1 Volts
 Calibration February 14, 1997 by Instantel Inc.
 File Name G5466H3G.XT0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

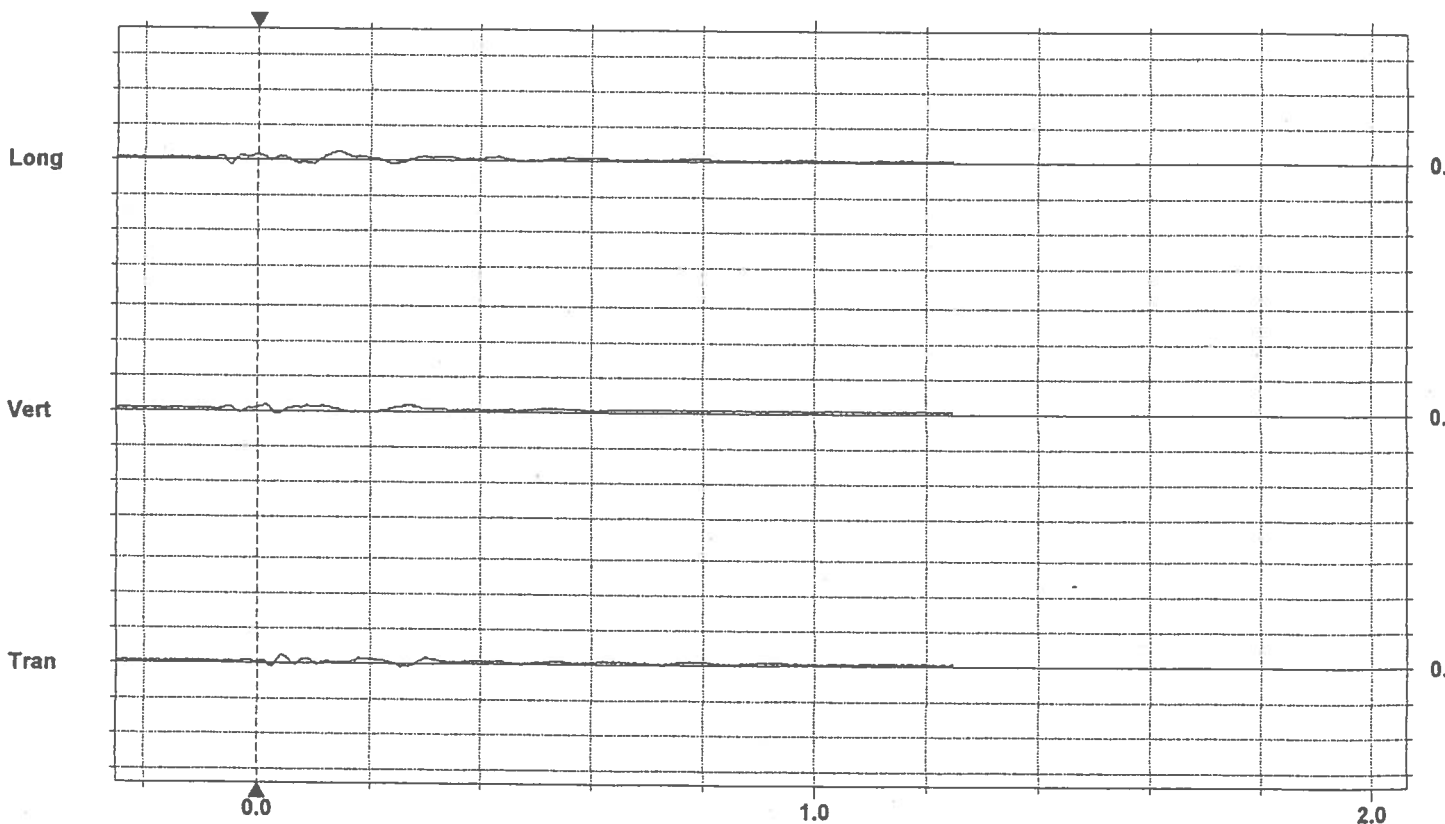
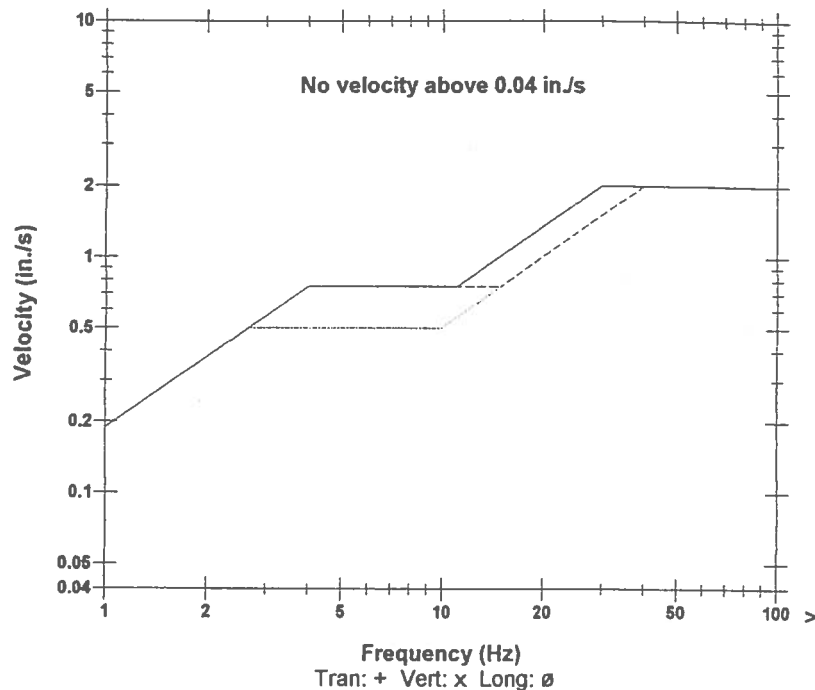
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0250	0.0200	0.0250	in./s
ZC Freq	22	14	9.0	Hz
Time (Rel. to Trig)	0.041	0.013	0.140	sec
Peak Acceleration	0.0265	0.0133	0.0265	g
Peak Displacement	0.00027	0.00060	0.00047	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0296 in./s at 0.041 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Vert at 09:35:34 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 1.75 sec (Auto=1 sec) at 1024 sps

Serial Number BA5552 V 3.11-3.11 BlastMate III
 Battery Level 6.5 Volts
 Calibration January 10, 1997 by Instantel Inc.
 File Name G5526H3H.BA0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

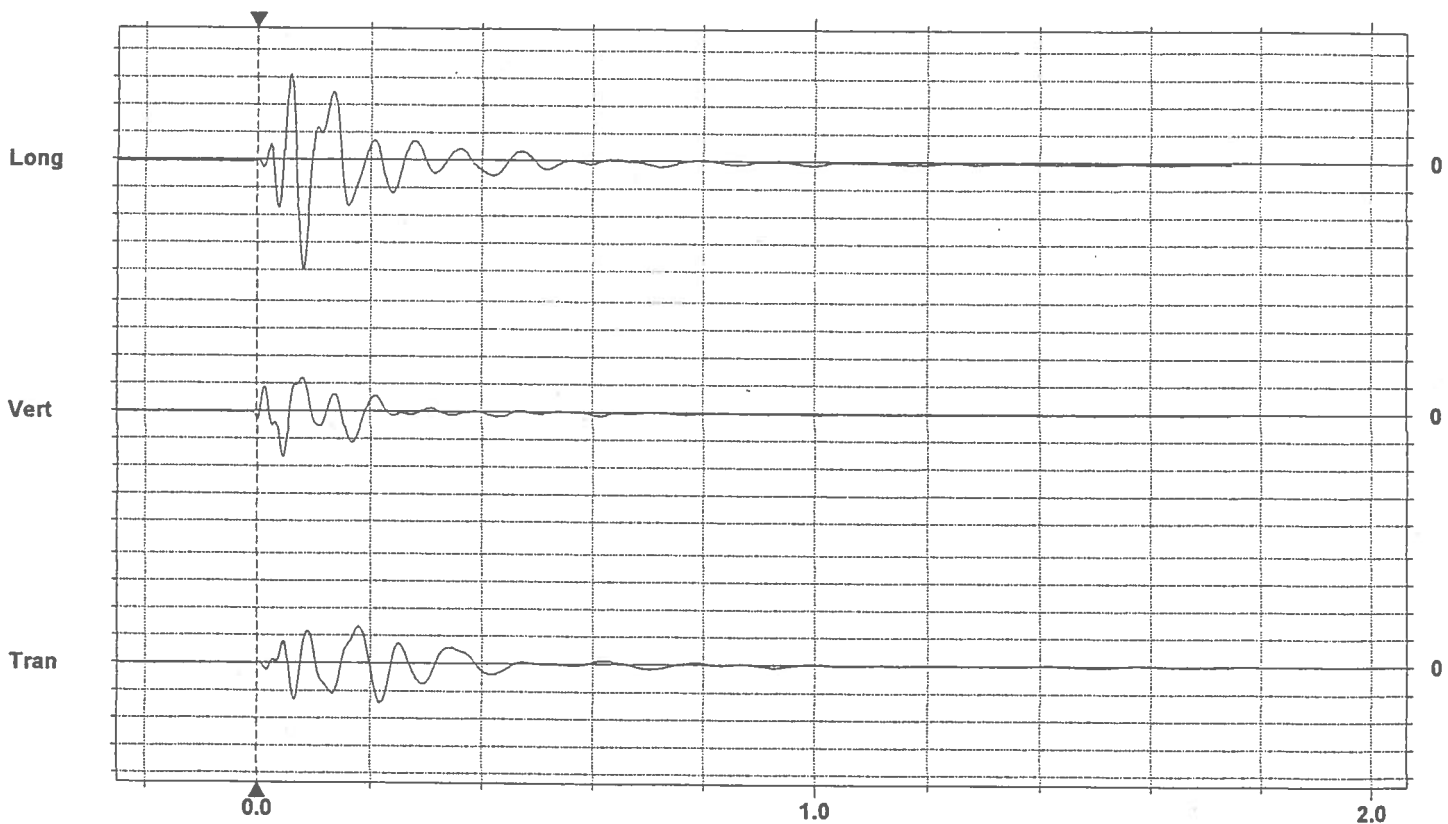
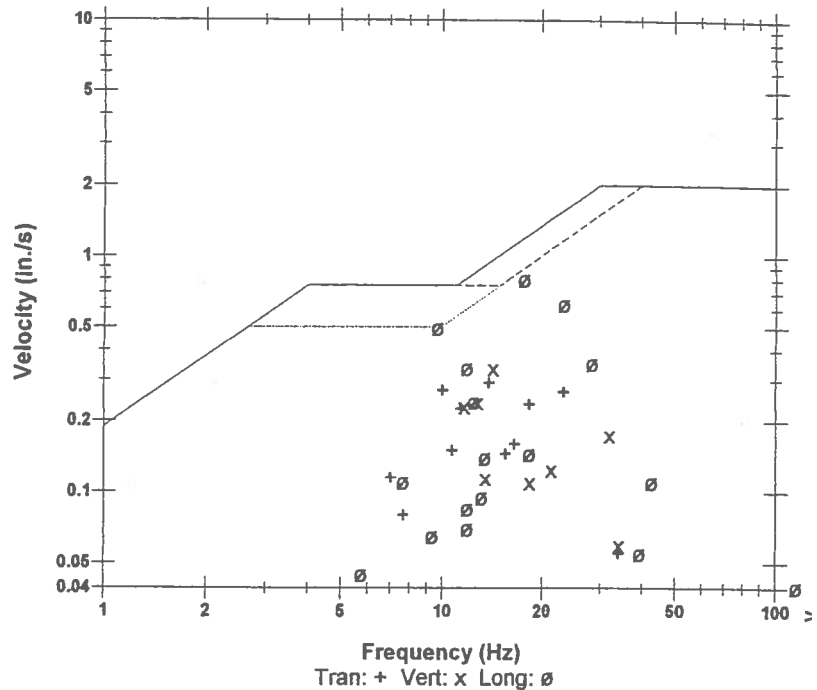
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.290	0.335	0.795	in./s
ZC Freq	14	14	18	Hz
Time (Rel. to Trig)	0.215	0.046	0.082	sec
Peak Acceleration	0.106	0.119	0.252	g
Peak Displacement	0.00411	0.00322	0.00717	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.847 in./s at 0.082 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.200 in./s/div
 Trigger =

Date/Time Vert at 09:35:33 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5571 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by Instantel Inc.
 File Name G5716H3H.B90

Notes

Location:

Client: CC&V

User Name: M.M.C.

General: Attenuation Study

Post Event Notes

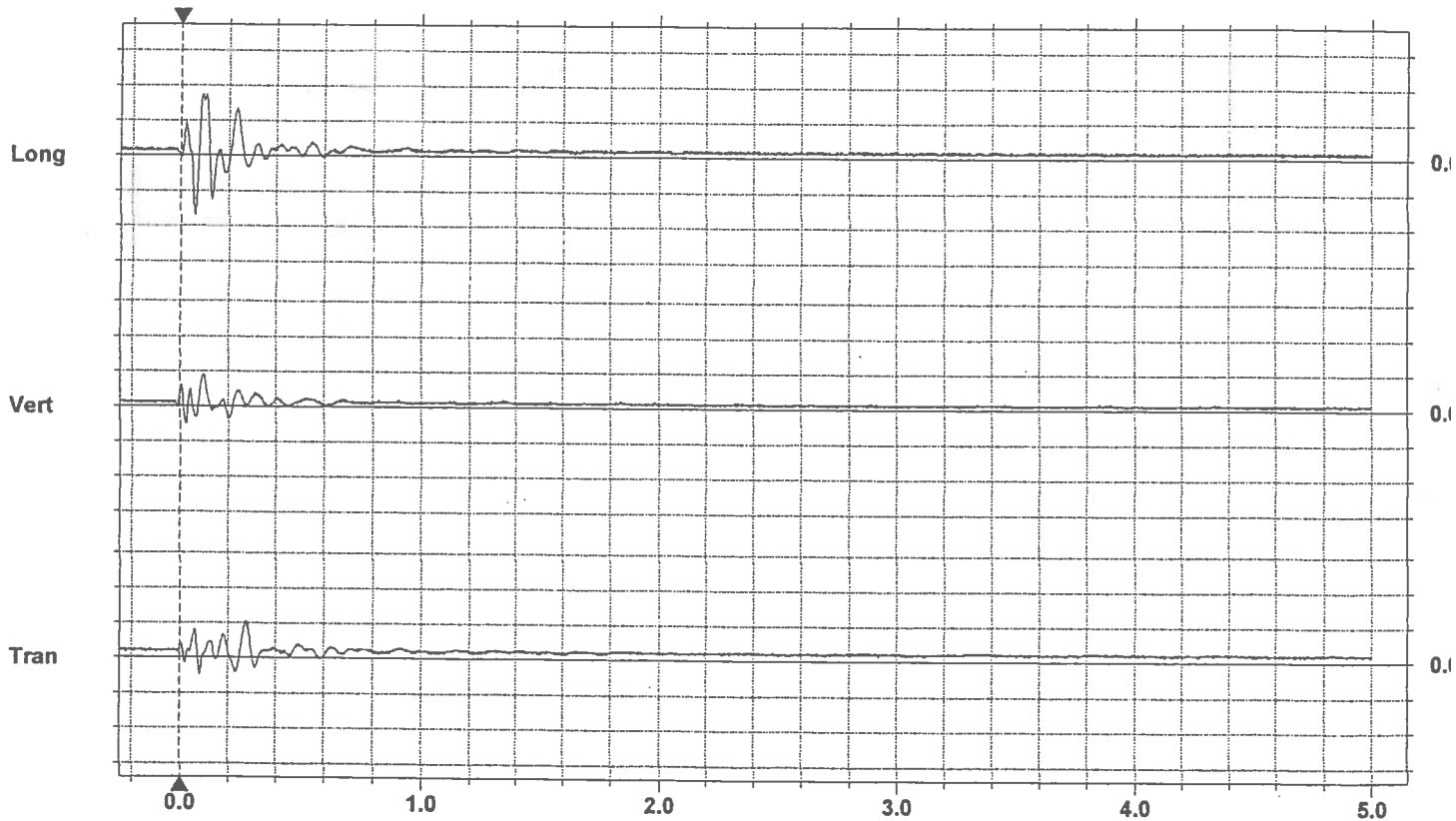
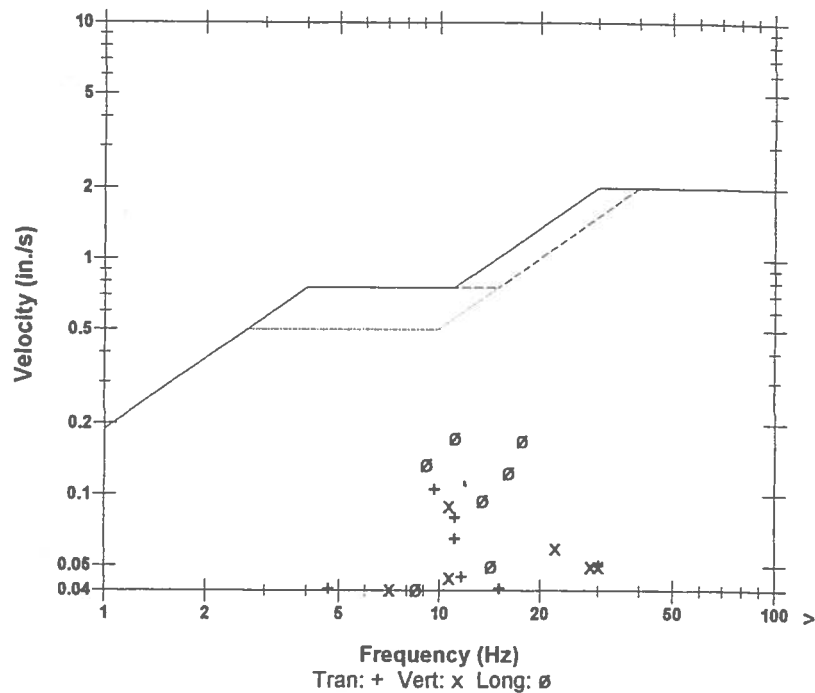
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.105	0.0900	0.175	in./s
ZC Freq	9.7	11	11	Hz
Time (Rel. to Trig)	0.271	0.092	0.086	sec
Peak Acceleration	0.0265	0.0398	0.0663	g
Peak Displacement	0.00276	0.00165	0.00300	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.193 in./s at 0.088 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 09:35:35 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5570 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by Instatel Inc.
 File Name G5706H3H.BB0

Notes

Location:

Client: CC&V

User Name: M.M.C.

General:

Attenuation Study

Post Event Notes

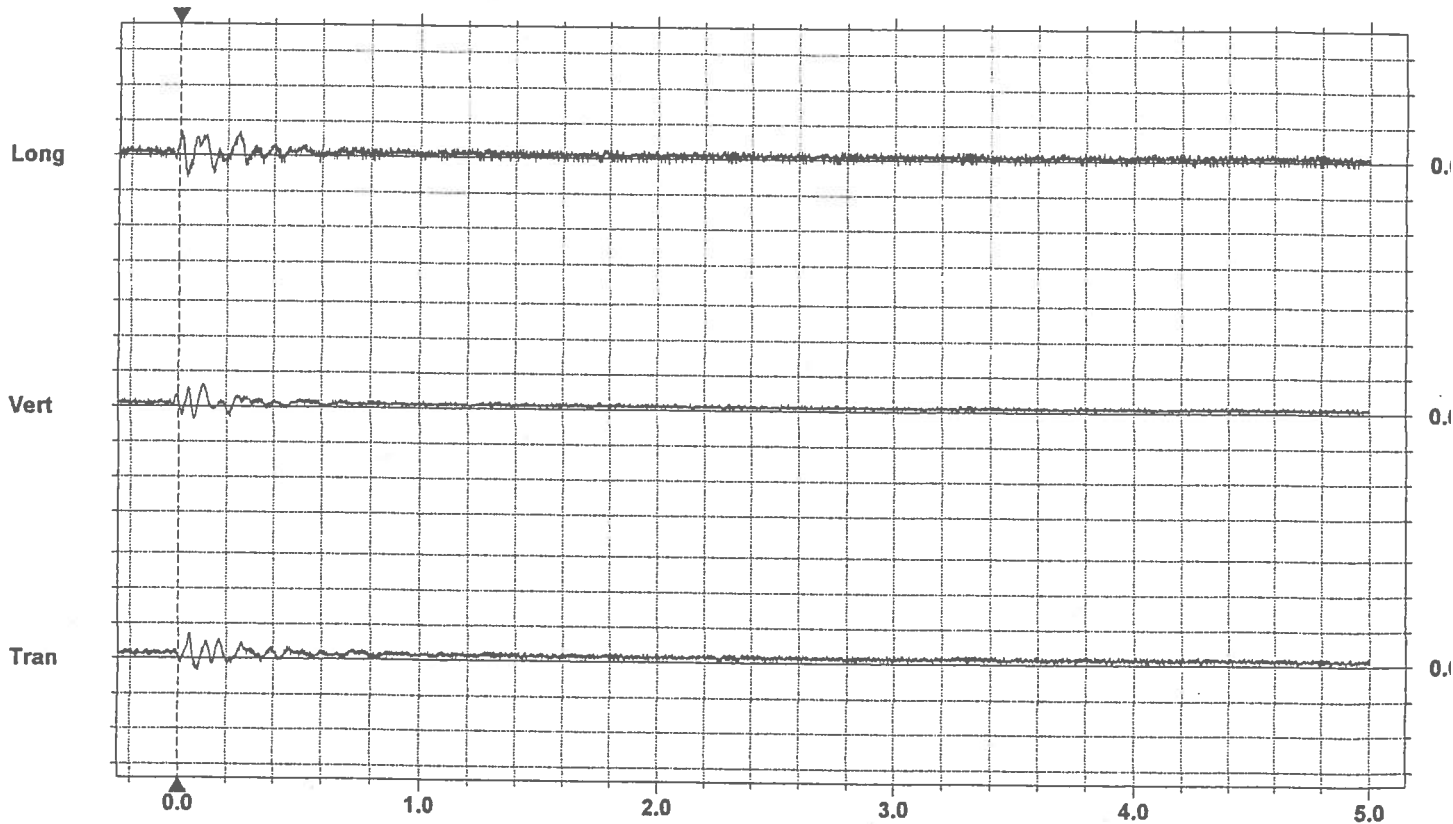
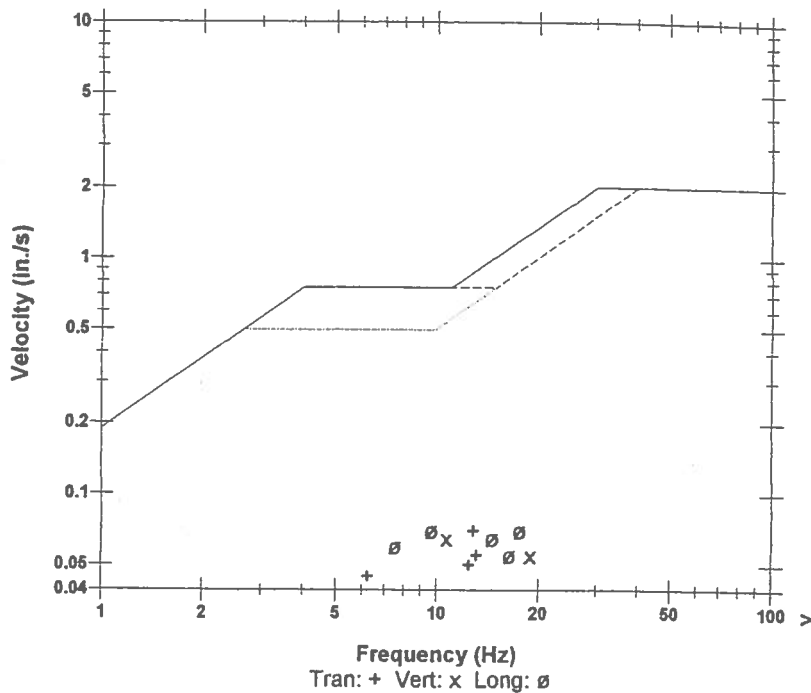
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0700	0.0650	0.0700	in./s
ZC Freq	13	11	18	Hz
Time (Rel. to Trig)	0.041	0.101	0.006	sec
Peak Acceleration	0.0530	0.0398	0.0795	g
Peak Displacement	0.00097	0.00092	0.00129	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.101 in./s at 0.040 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 09:35:33 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5536 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 10, 1997 by Instantel Inc.
 File Name G5366H3H.B90

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

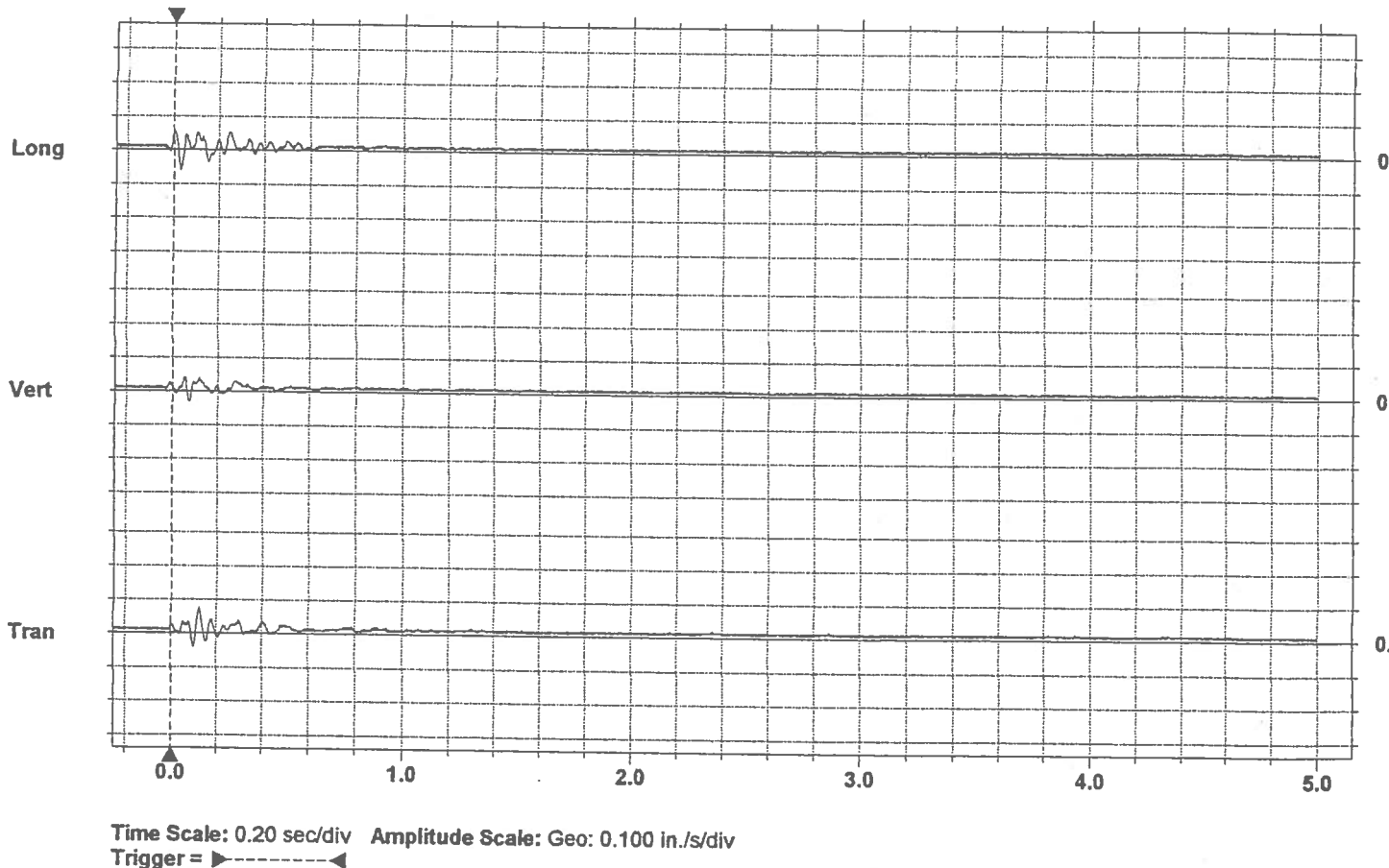
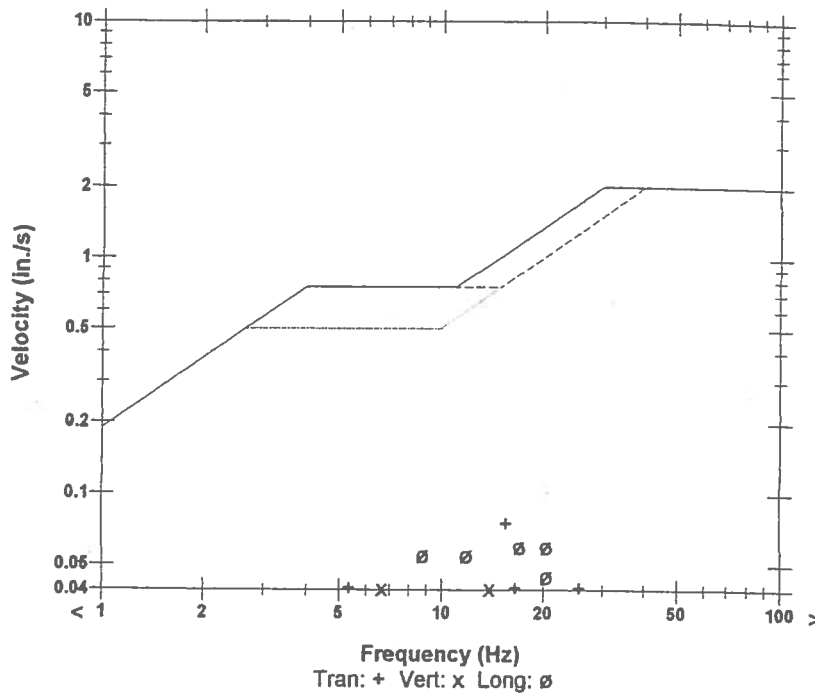
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0750	0.0400	0.0600	in./s
ZC Freq	16	14	17	Hz
Time (Rel. to Trig)	0.123	0.051	0.002	sec
Peak Acceleration	0.0265	0.0265	0.0265	g
Peak Displacement	0.00185	0.0139	0.00115	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0846 in./s at 0.123 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Date/Time Vert at 09:34:35 May 29, 1997
 Trigger Source Geo: 0.0200 in./s
 Range Geo: 10.00 in./s
 Record Time 1.75 sec (Auto=1 sec) at 1024 sps

Serial Number BA5546 V 3.11-3.11 BlastMate III
 Battery Level 6.1 Volts
 Calibration February 14, 1997 by Instantel Inc.
 File Name G5466H3H.9N0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

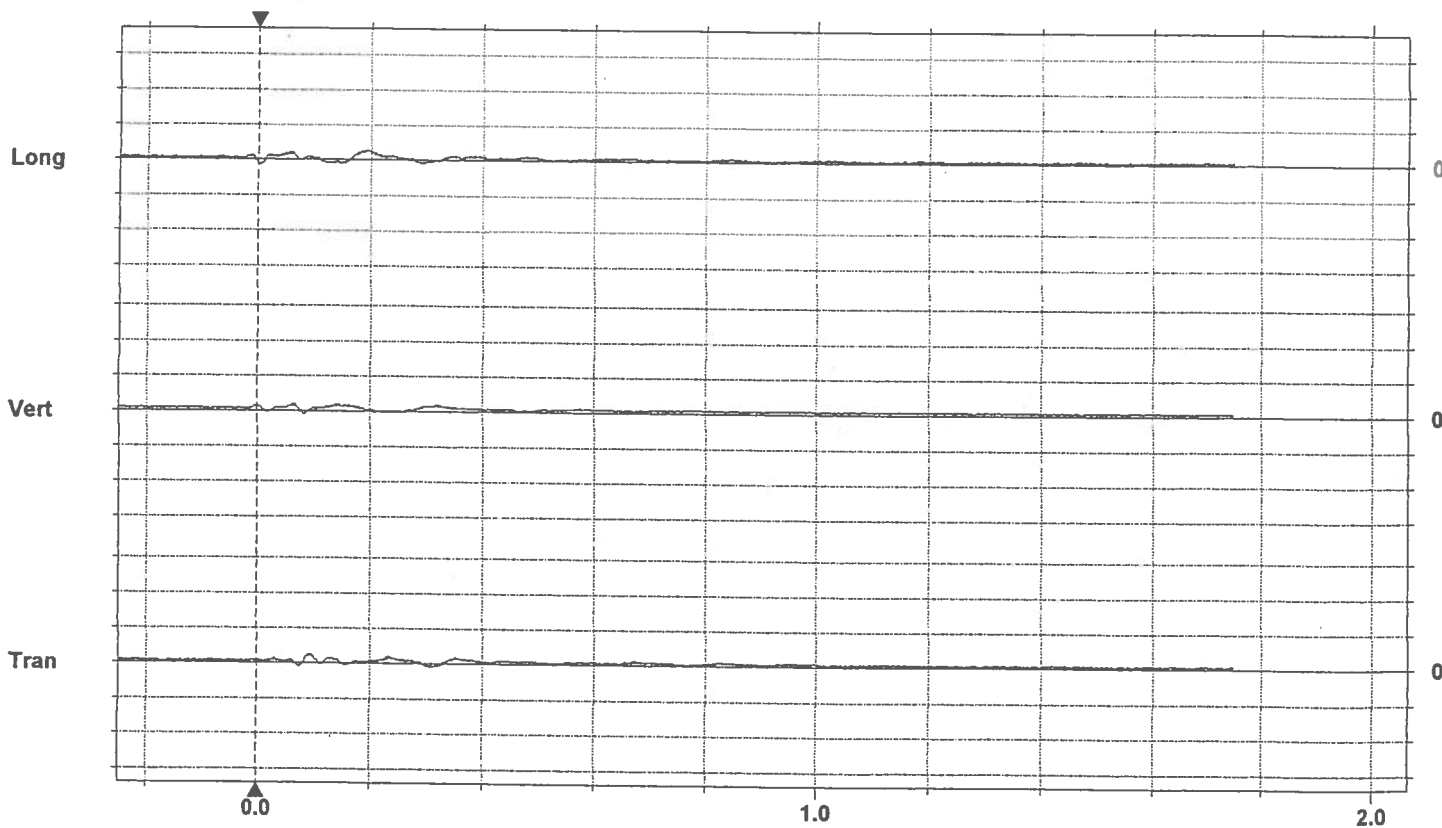
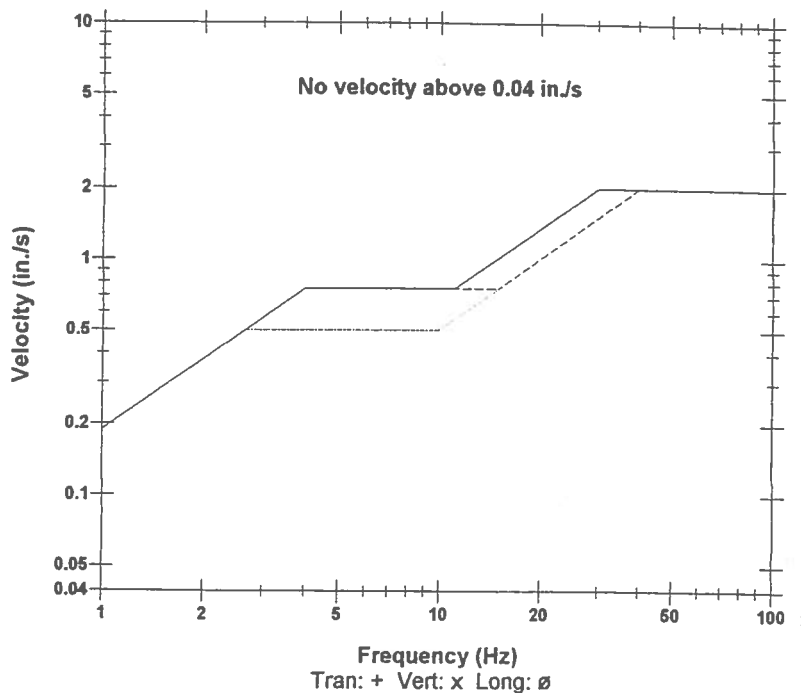
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0250	0.0200	0.0300	in./s
ZC Freq	21	22	8.5	Hz
Time (Rel. to Trig)	0.091	0.000	0.192	sec
Peak Acceleration	0.0265	0.0133	0.0265	g
Peak Displacement	0.00033	0.00070	0.00051	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0308 in./s at 0.192 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Vert at 10:08:52 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 1.75 sec (Auto=1 sec) at 1024 sps

Serial Number BA5552 V 3.11-3.11 BlastMate III
 Battery Level 6.5 Volts
 Calibration January 10, 1997 by InstanTel Inc.
 File Name G5526H3I.US0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

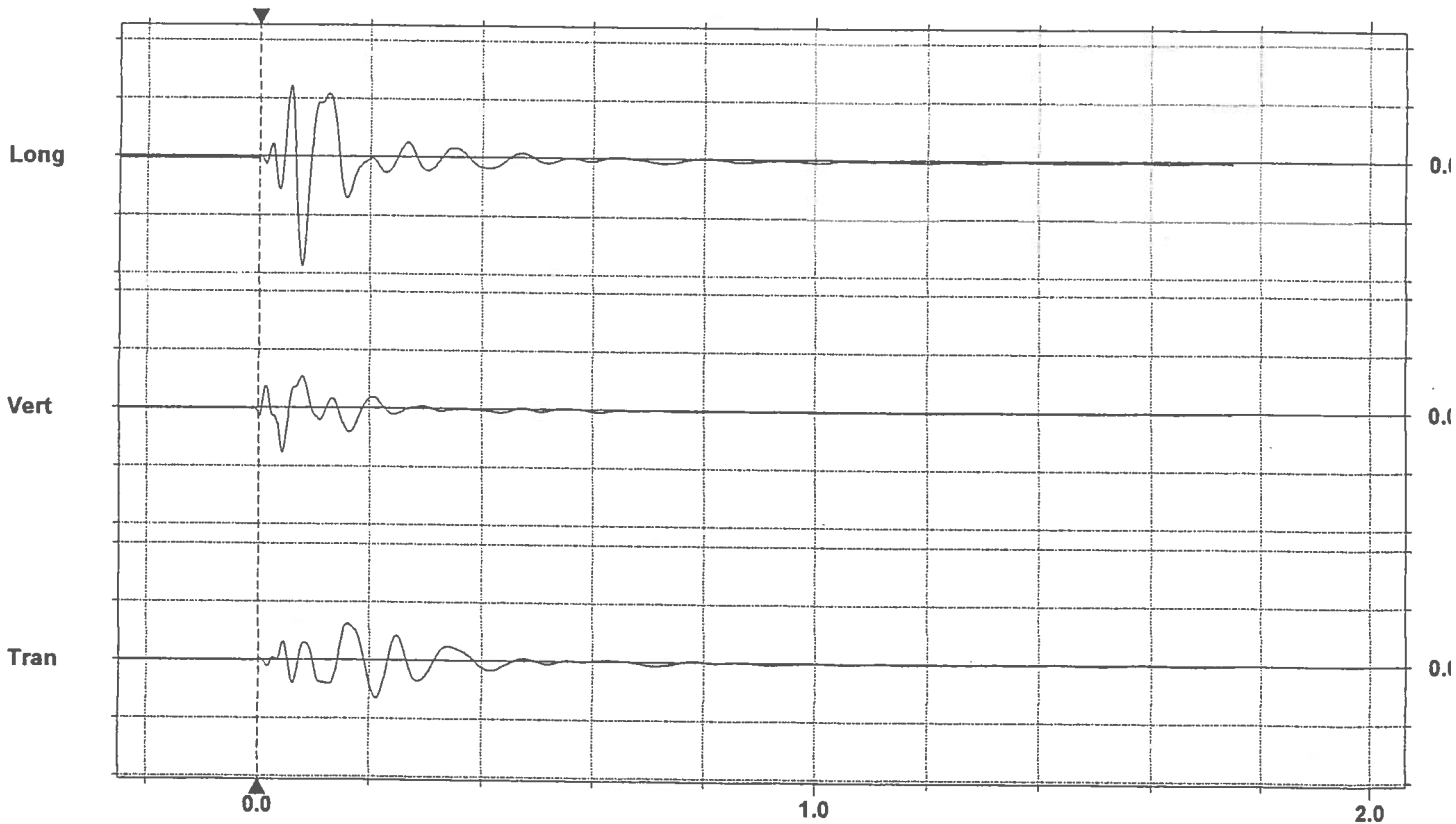
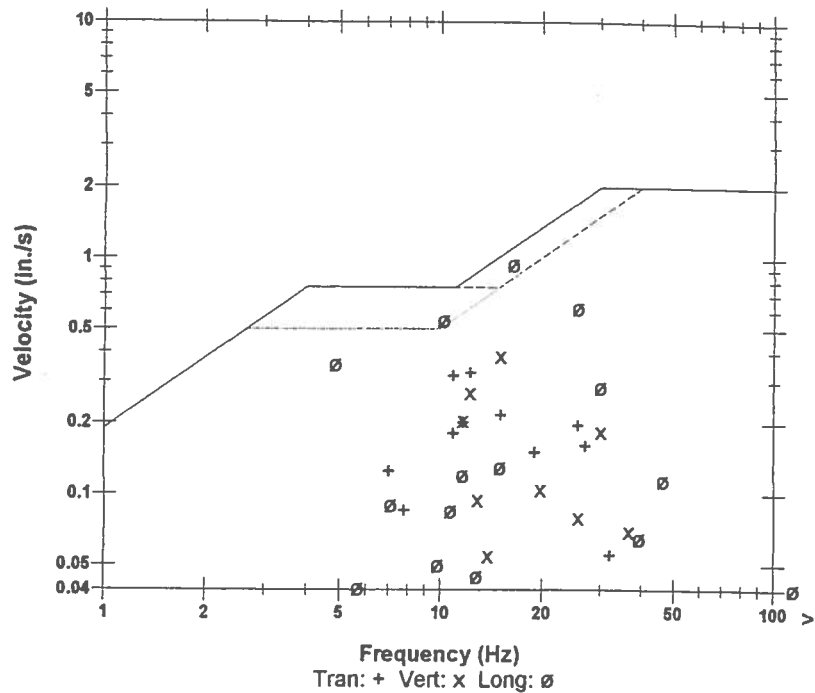
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.325	0.385	0.940	in./s
ZC Freq	12	15	17	Hz
Time (Rel. to Trig)	0.213	0.043	0.079	sec
Peak Acceleration	0.0928	0.106	0.292	g
Peak Displacement	0.00496	0.00349	0.00978	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.987 in./s at 0.080 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 in./s/div
 Trigger =

Date/Time Vert at 10:08:51 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5571 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by Instantel Inc.
 File Name G5716H3I.UR0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

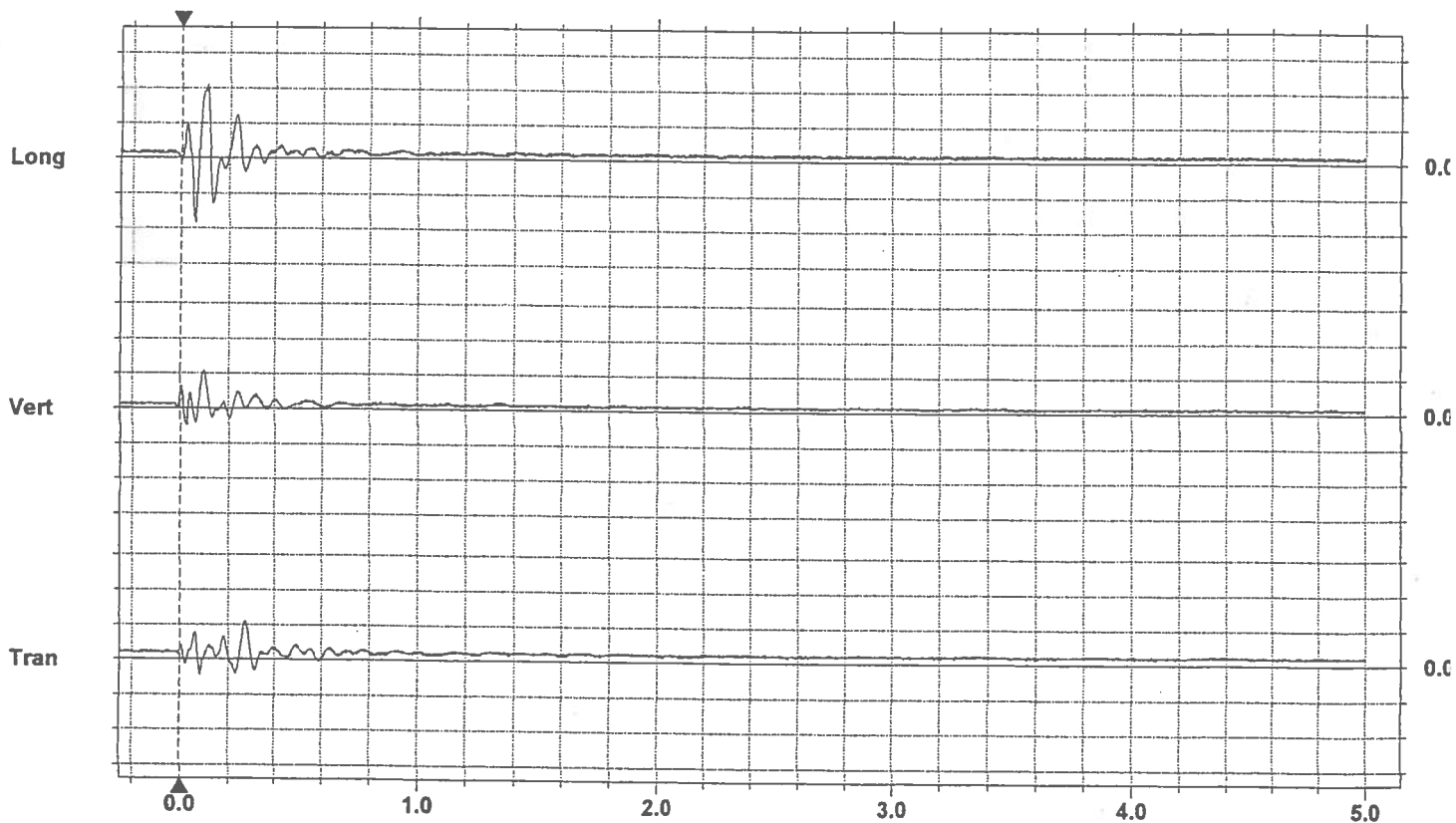
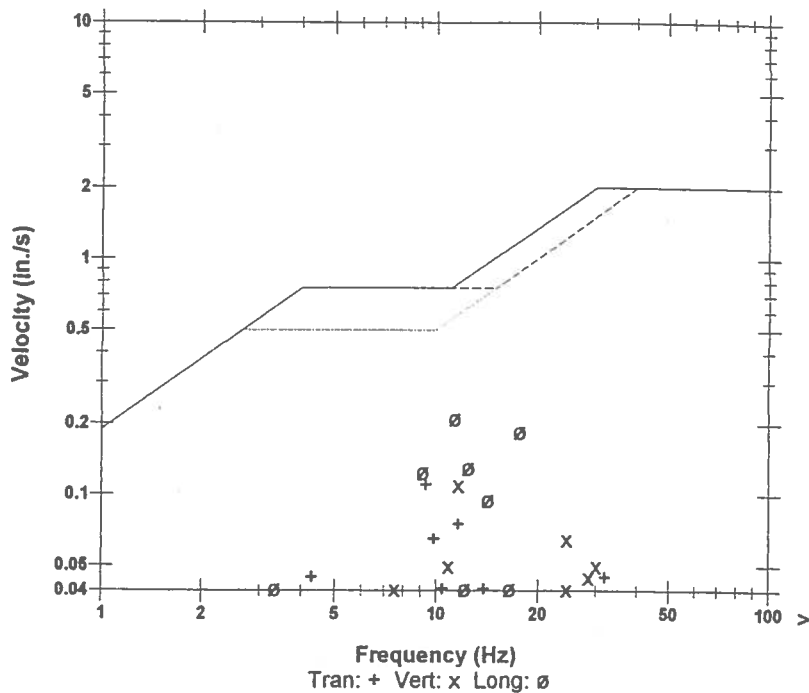
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.110	0.110	0.210	in./s
ZC Freq	9.3	12	11	Hz
Time (Rel. to Trig)	0.271	0.094	0.102	sec
Peak Acceleration	0.0265	0.0398	0.0663	g
Peak Displacement	0.00278	0.00167	0.00325	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.231 in./s at 0.102 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 10:08:53 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5570 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by Instantel Inc.
 File Name G5706H31.UT0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

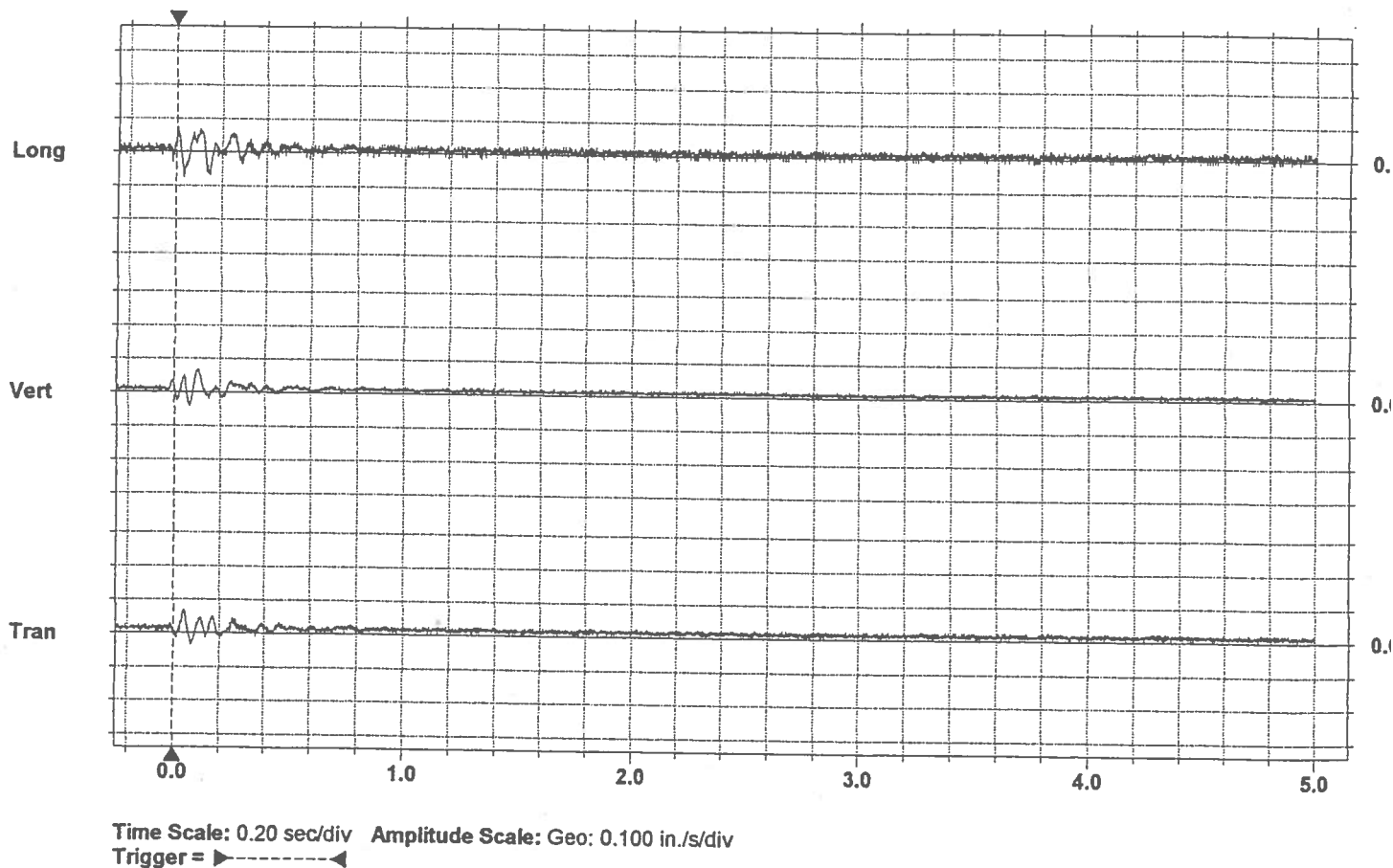
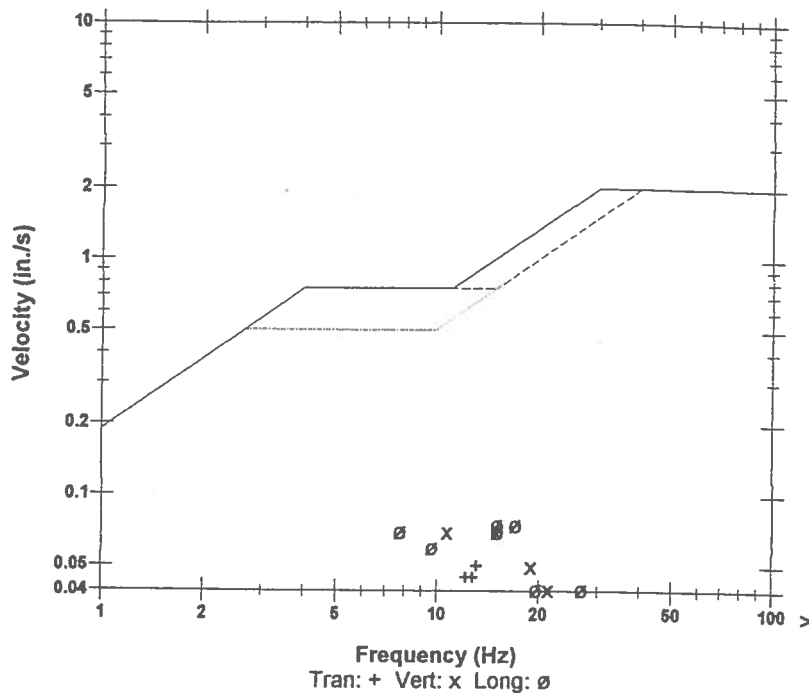
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0700	0.0700	0.0750	in./s
ZC Freq	15	11	17	Hz
Time (Rel. to Trig)	0.041	0.104	0.005	sec
Peak Acceleration	0.0530	0.0398	0.0795	g
Peak Displacement	0.00069	0.00098	0.00139	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0970 in./s at 0.101 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Date/Time Long at 10:08:51 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5536 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 10, 1997 by Instantel Inc.
 File Name G5366H3I.UR0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

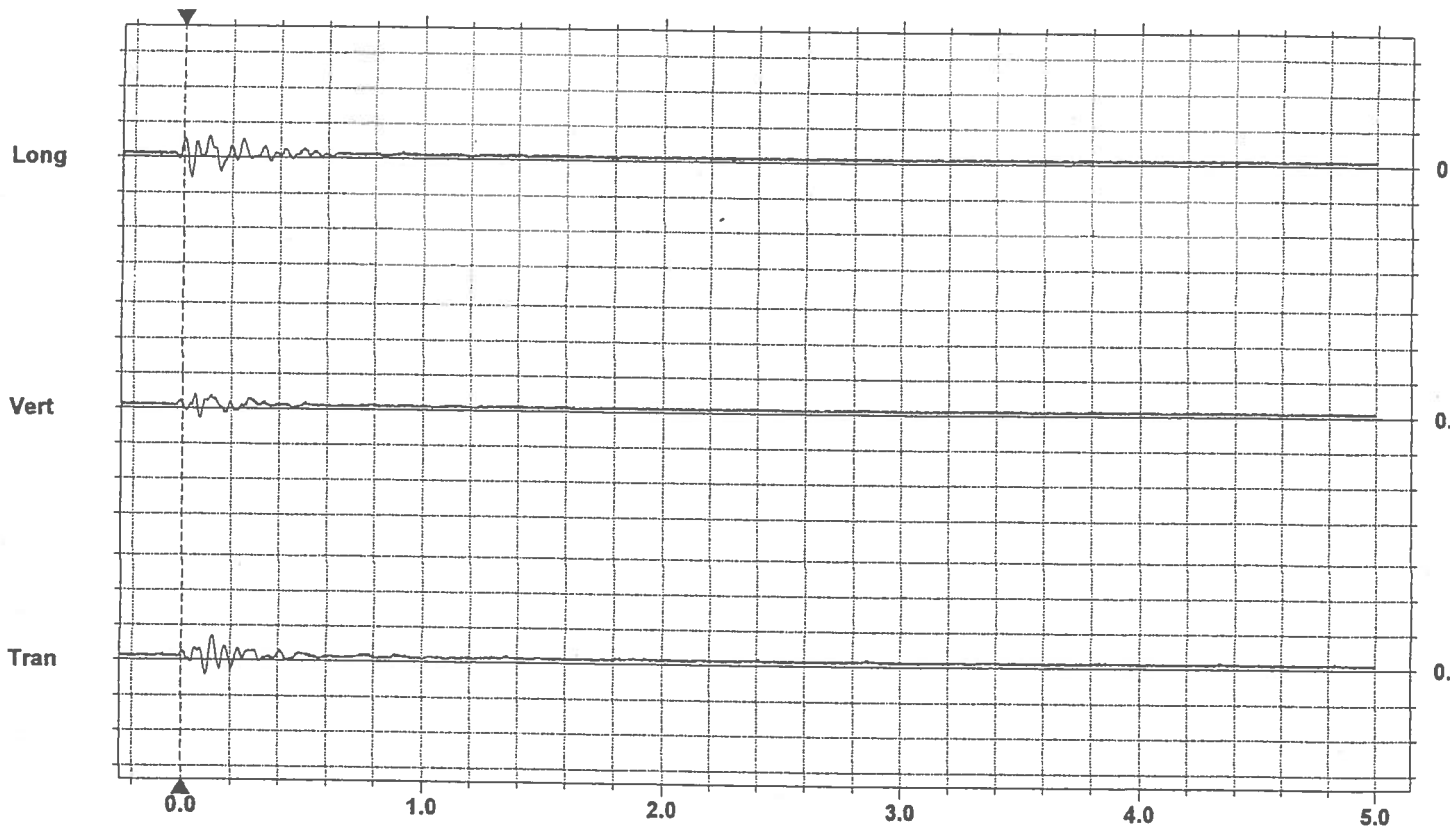
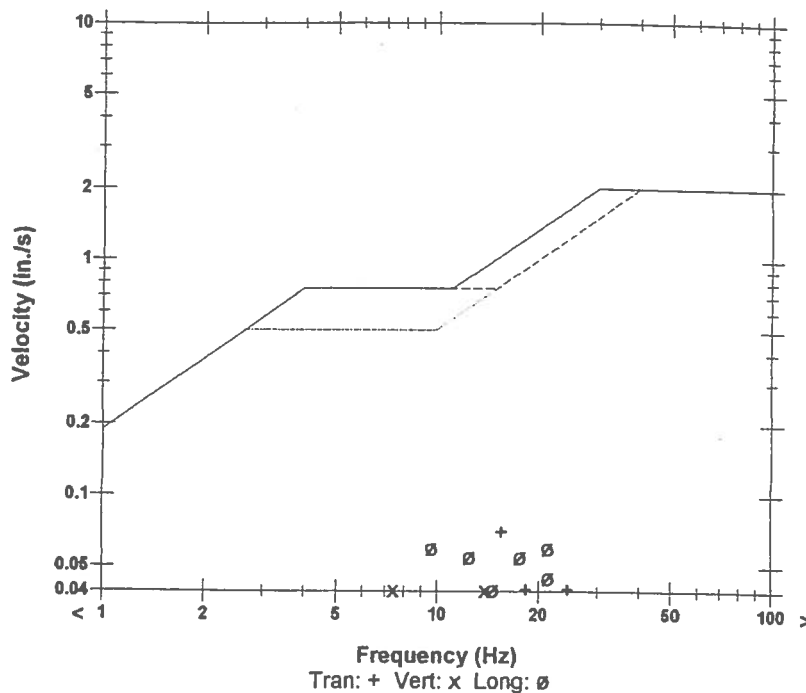
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0700	0.0400	0.0600	in./s
ZC Freq	16	14	21	Hz
Time (Rel. to Trig)	0.122	0.051	0.031	sec
Peak Acceleration	0.0265	0.0265	0.0265	g
Peak Displacement	0.00193	0.00618	0.00132	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0819 in./s at 0.126 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Vert at 10:07:53 May 29, 1997
 Trigger Source Geo: 0.0200 in./s
 Range Geo: 10.00 in./s
 Record Time 1.75 sec (Auto=1 sec) at 1024 sps

Serial Number BA5546 V 3.11-3.11 BlastMate III
 Battery Level 6.1 Volts
 Calibration February 14, 1997 by InstanTel Inc.
 File Name G5466H3I.T50

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

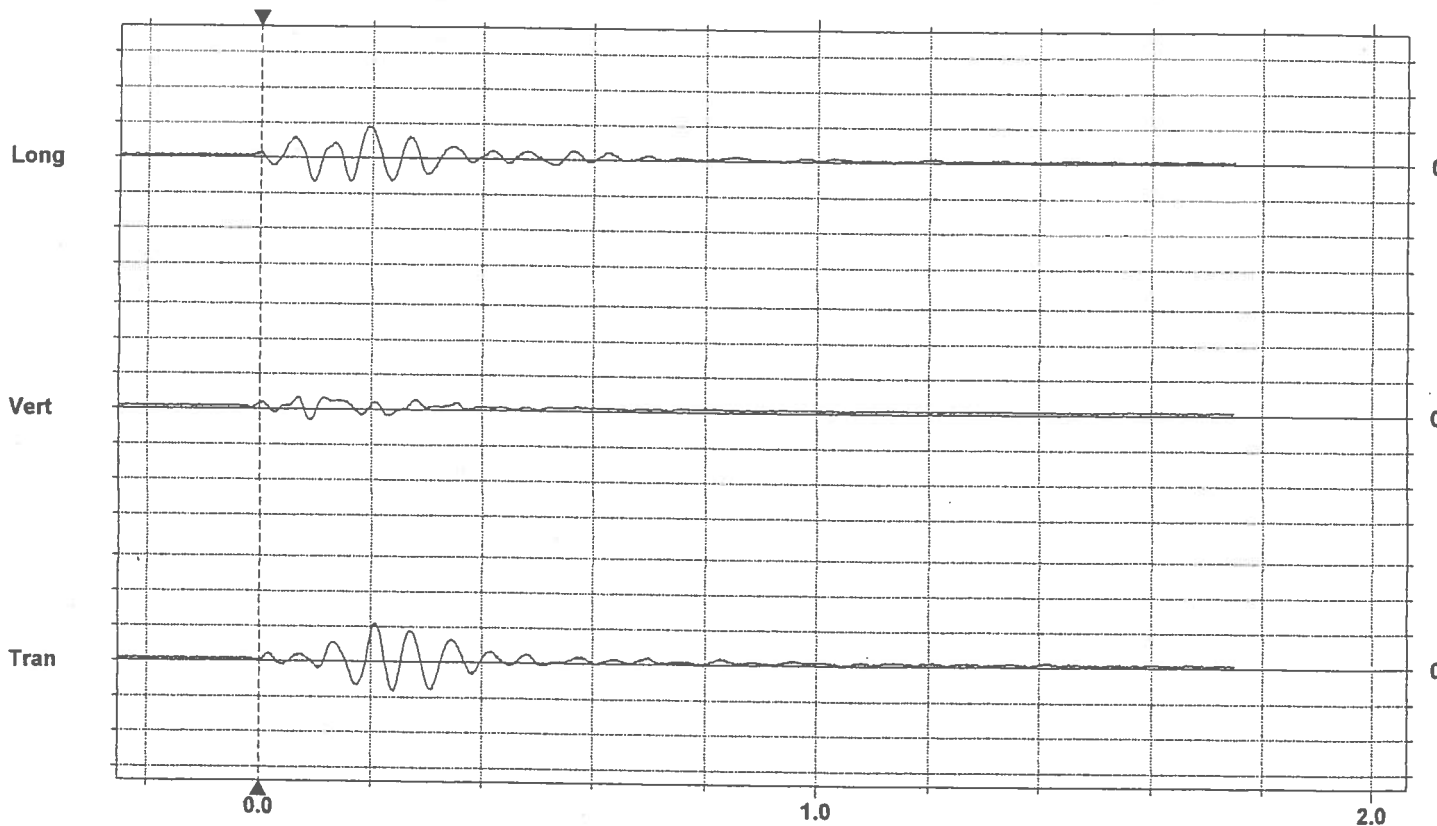
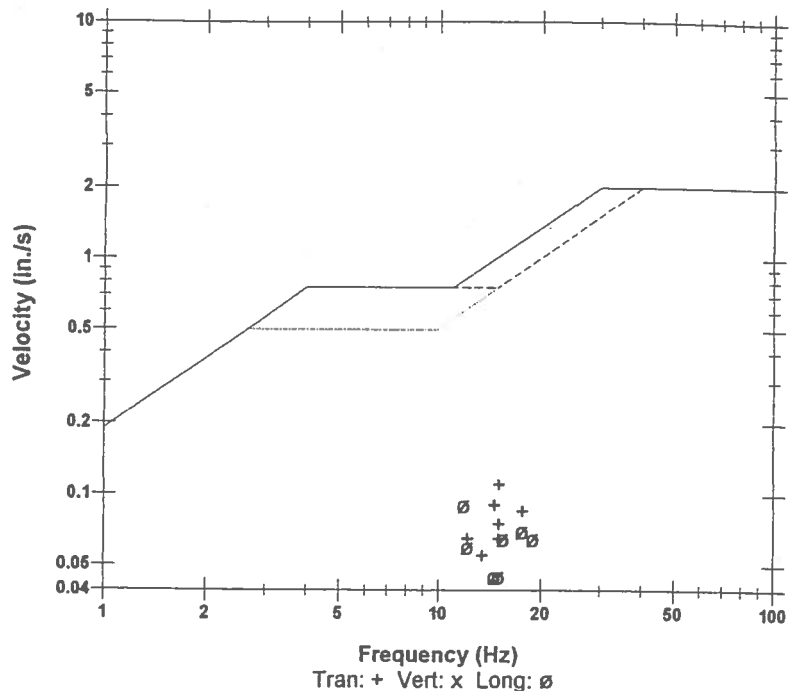
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.110	0.0350	0.0900	in./s
ZC Freq	15	12	12	Hz
Time (Rel. to Trig)	0.206	0.066	0.190	sec
Peak Acceleration	0.0398	0.0265	0.0398	g
Peak Displacement	0.00116	0.00073	0.00126	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.131 in./s at 0.204 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Vert at 10:18:54 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 1.75 sec (Auto=1 sec) at 1024 sps

Serial Number BA5552 V 3.11-3.11 BlastMate III
 Battery Level 8.5 Volts
 Calibration January 10, 1997 by Instantel Inc.
 File Name G5526H3J.B10

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

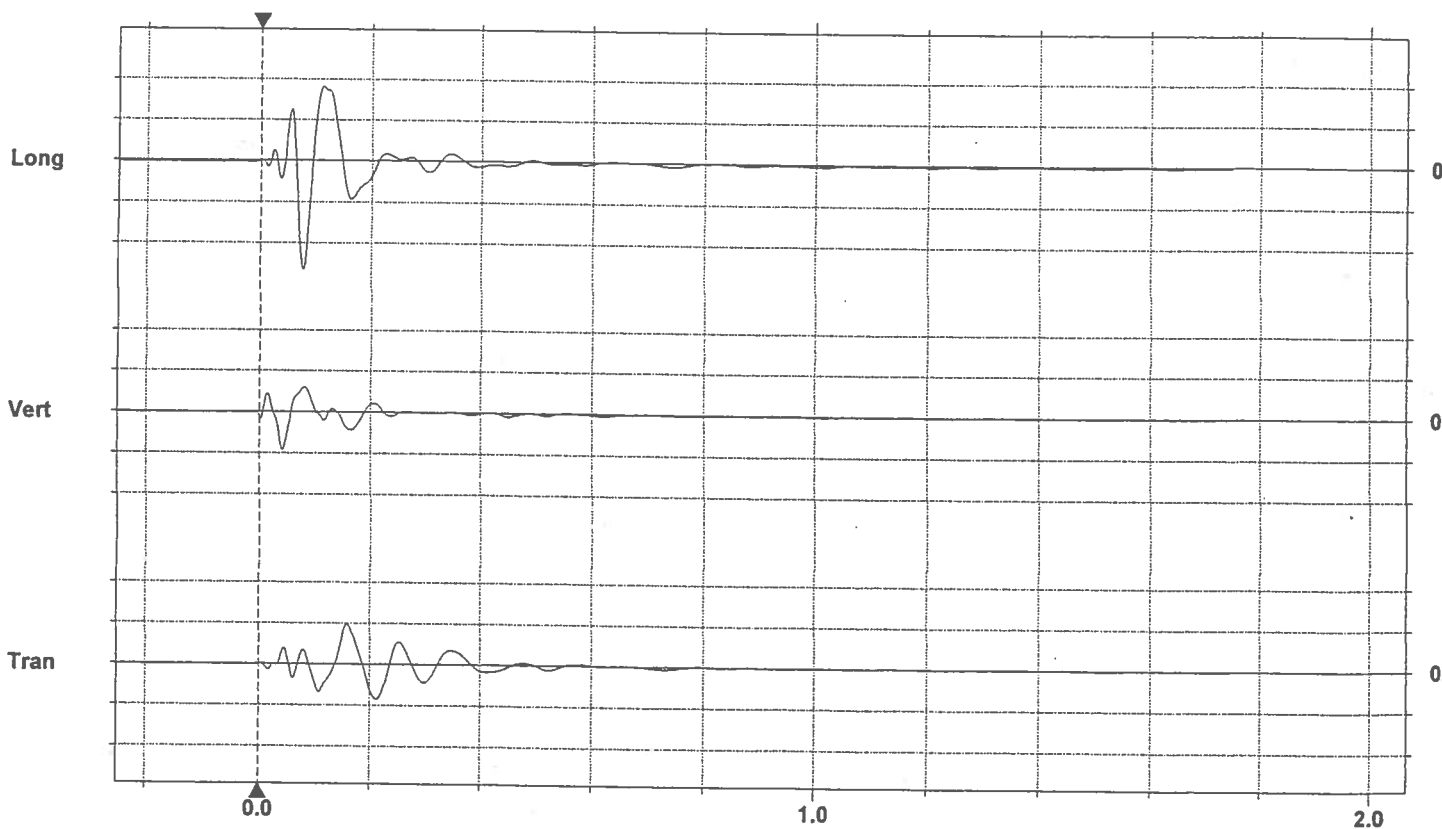
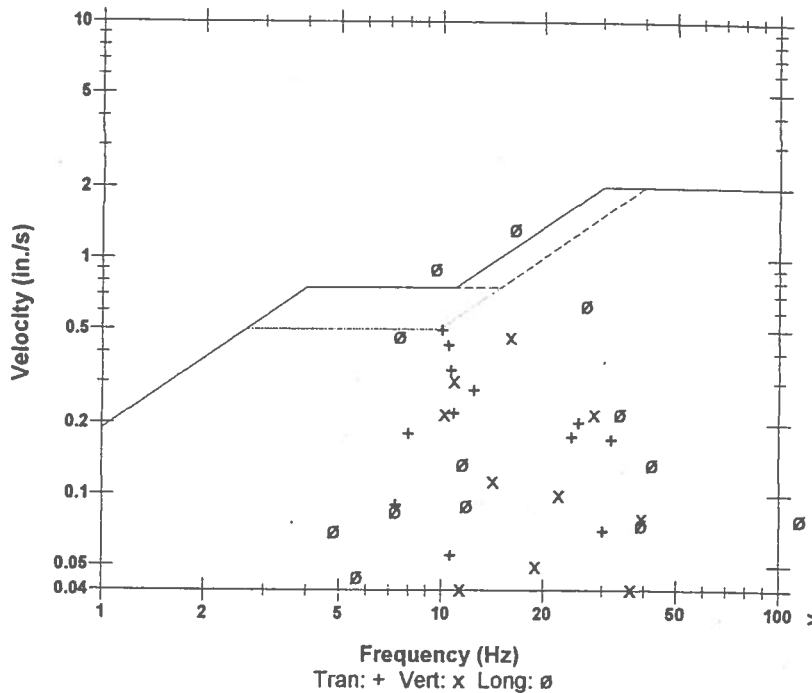
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.495	0.465	1.33	in./s
ZC Freq	10	16	17	Hz
Time (Rel. to Trig)	0.159	0.042	0.078	sec
Peak Acceleration	0.0928	0.133	0.358	g
Peak Displacement	0.00686	0.00434	0.0164	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 1.37 in./s at 0.078 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 in./s/div
 Trigger = ———▶

Date/Time Vert at 10:18:53 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5571 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by InstanTel Inc.
 File Name G5716H3J.BH0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

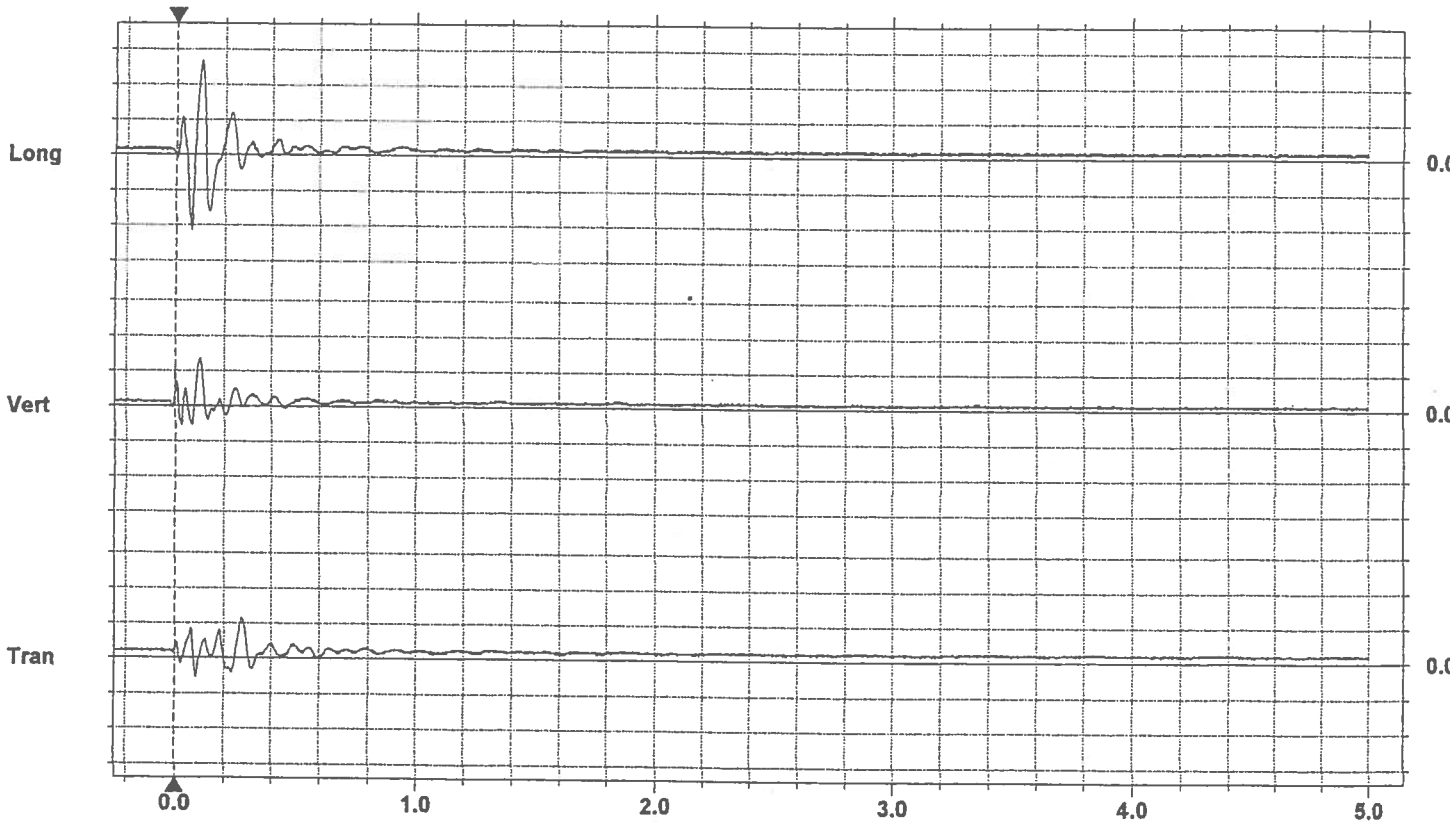
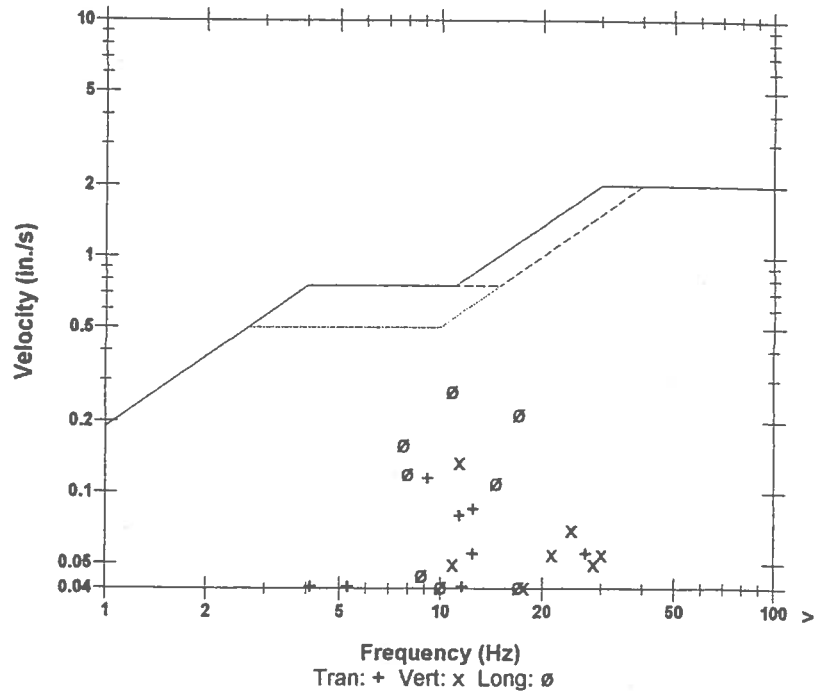
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.115	0.135	0.270	in./s
ZC Freq	9.1	11	11	Hz
Time (Rel. to Trig)	0.272	0.096	0.103	sec
Peak Acceleration	0.0285	0.0398	0.0663	g
Peak Displacement	0.00282	0.00181	0.00397	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.298 in./s at 0.101 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 10:18:54 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5570 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by Instantel Inc.
 File Name G5706H3J.B10

Notes

Location:

Client: CC&V

User Name: M.M.C.

General:

Attenuation Study

Post Event Notes

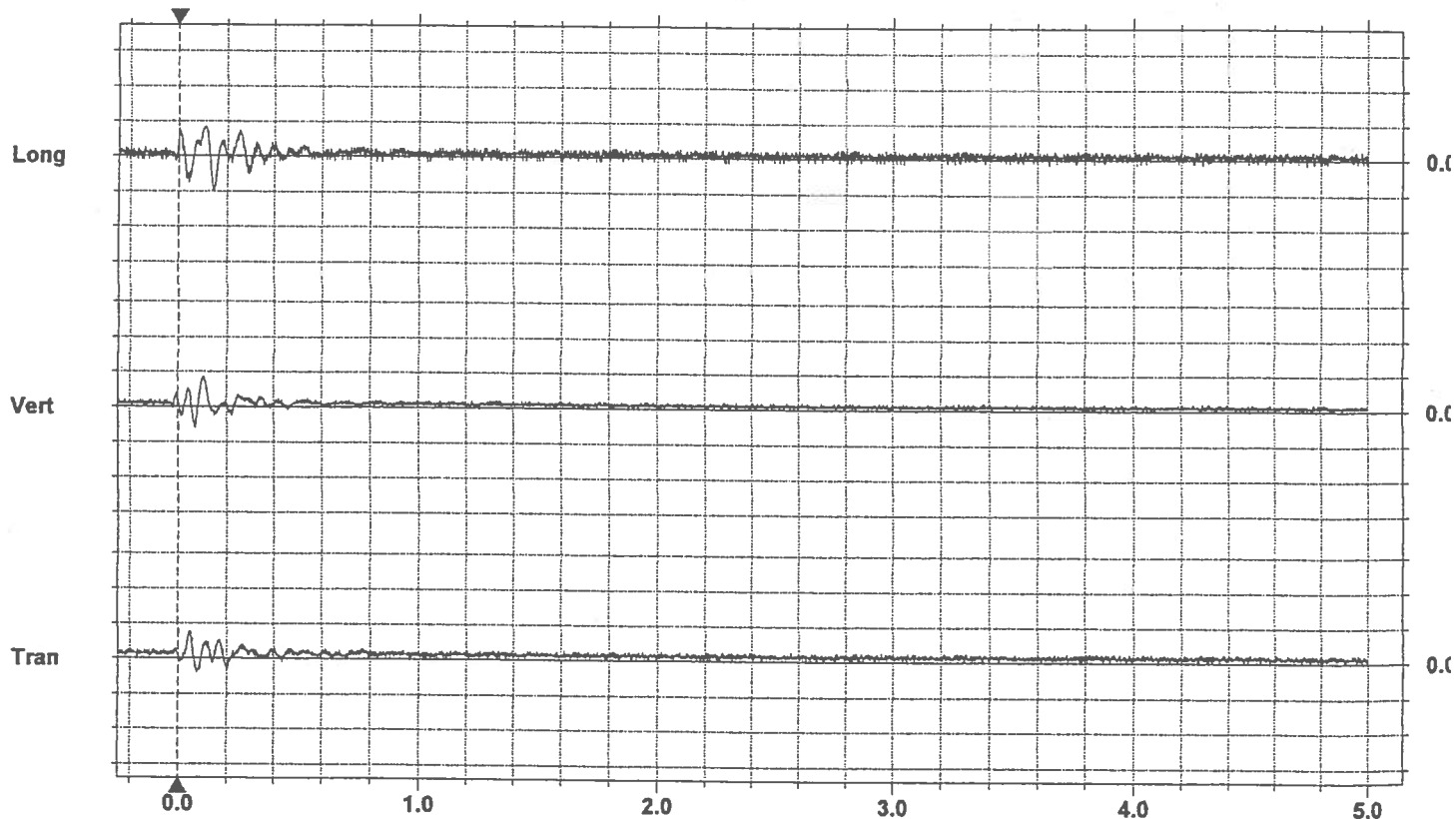
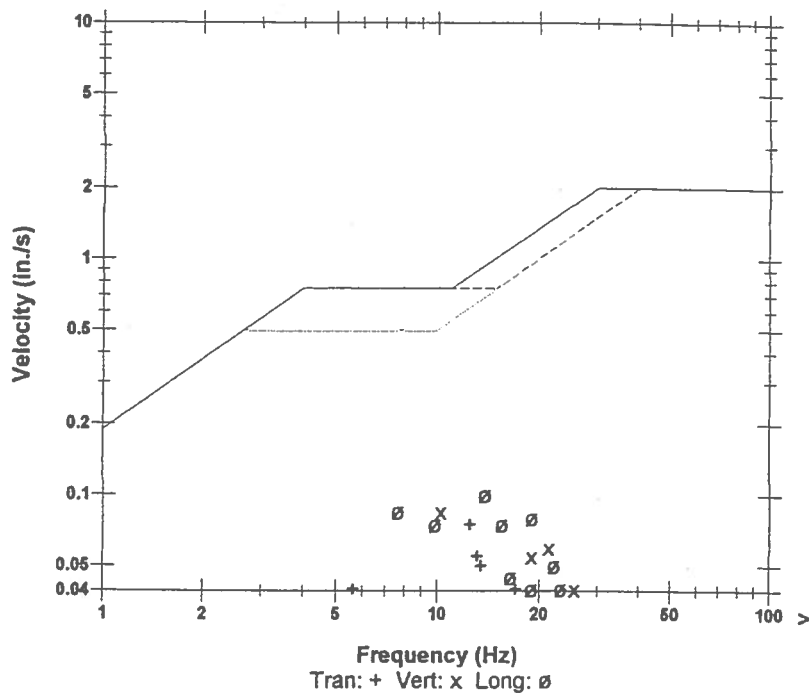
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0750	0.0850	0.1000	in./s
ZC Freq	12	10	14	Hz
Time (Rel. to Trig)	0.044	0.102	0.145	sec
Peak Acceleration	0.0530	0.0530	0.0795	g
Peak Displacement	0.00107	0.00123	0.00167	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.125 in./s at 0.105 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Date/Time Long at 10:18:53 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5536 V 3.11-3.11 MiniMate Plus
 Battery Level 6.8 Volts
 Calibration January 10, 1997 by Instantel Inc.
 File Name G5366H3J.BH0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

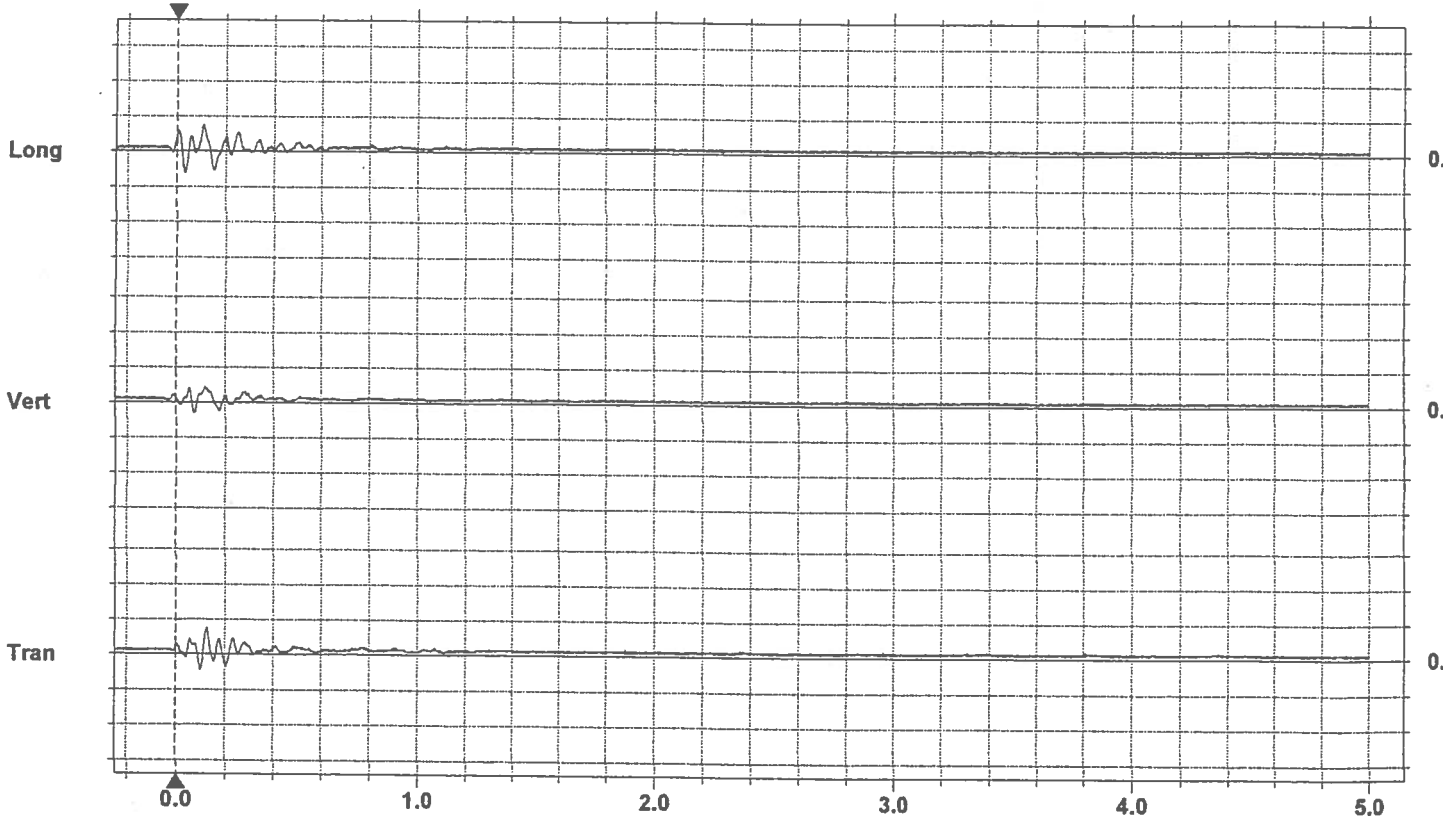
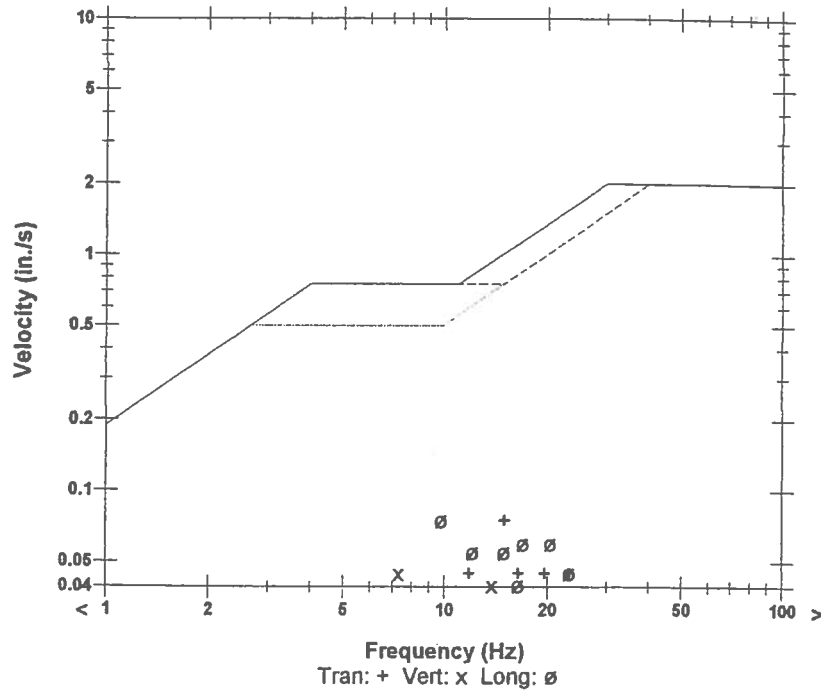
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0750	0.0450	0.0750	in./s
ZC Freq	15	7.3	9.8	Hz
Time (Rel. to Trig)	0.125	0.117	0.105	sec
Peak Acceleration	0.0265	0.0265	0.0398	g
Peak Displacement	0.00345	0.0124	0.00104	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0901 in./s at 0.125 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger = ———▶

Date/Time Long at 10:17:55 May 29, 1997
 Trigger Source Geo: 0.0200 in./s
 Range Geo: 10.00 in./s
 Record Time 1.75 sec (Auto=1 sec) at 1024 sps

Serial Number BA5546 V 3.11-3.11 BlastMate III
 Battery Level 6.0 Volts
 Calibration February 14, 1997 by Instantel Inc.
 File Name G5466H3J.9V0

Notes

Location:

Client: CC&V

User Name: M.M.C.

General: Attenuation Study

Post Event Notes

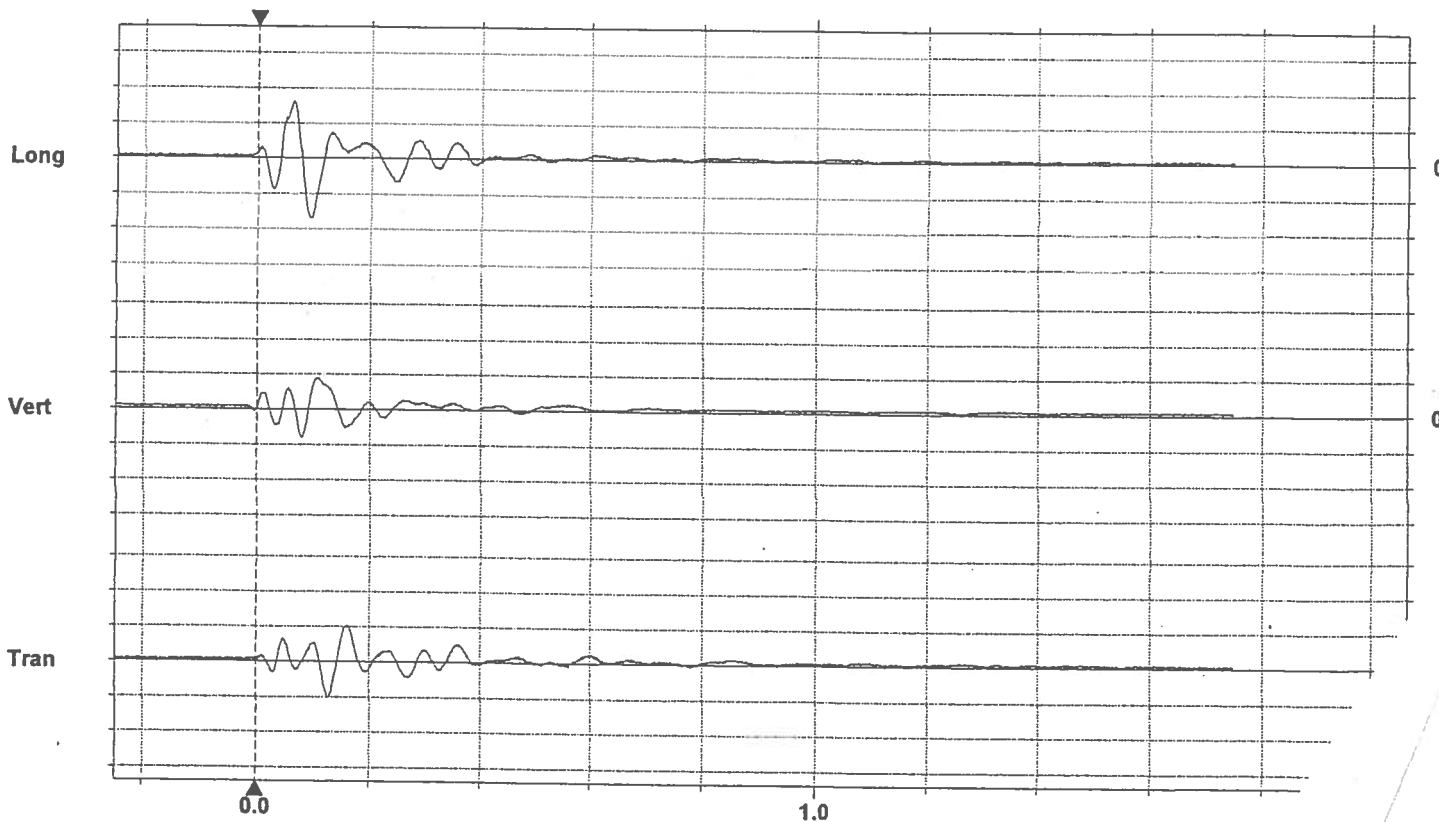
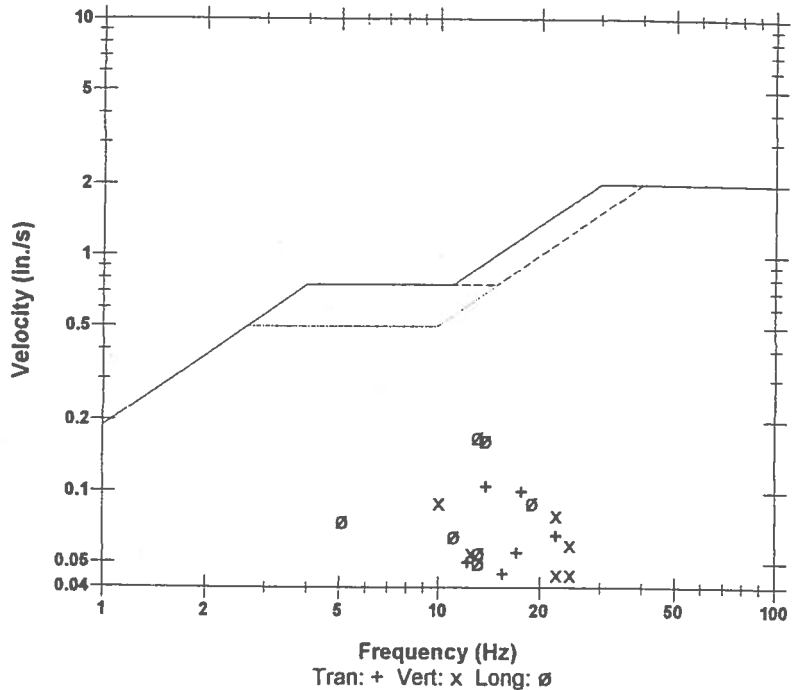
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.105	0.0900	0.170	in./s
ZC Freq	14	10	13	Hz
Time (Rel. to Trig)	0.160	0.105	0.093	sec
Peak Acceleration	0.0398	0.0398	0.0530	g
Peak Displacement	0.00118	0.00151	0.00198	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.182 in./s at 0.096 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Vert at 10:29:21 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 1.75 sec (Auto=1 sec) at 1024 sps

Serial Number BA5552 V 3.11-3.11 BlastMate III
 Battery Level 6.5 Volts
 Calibration January 10, 1997 by Instantel Inc.
 File Name G5526H3J.SX0

Notes

Location:

Client: CC&V

User Name: M.M.C.

General:

Attenuation Study

Post Event Notes

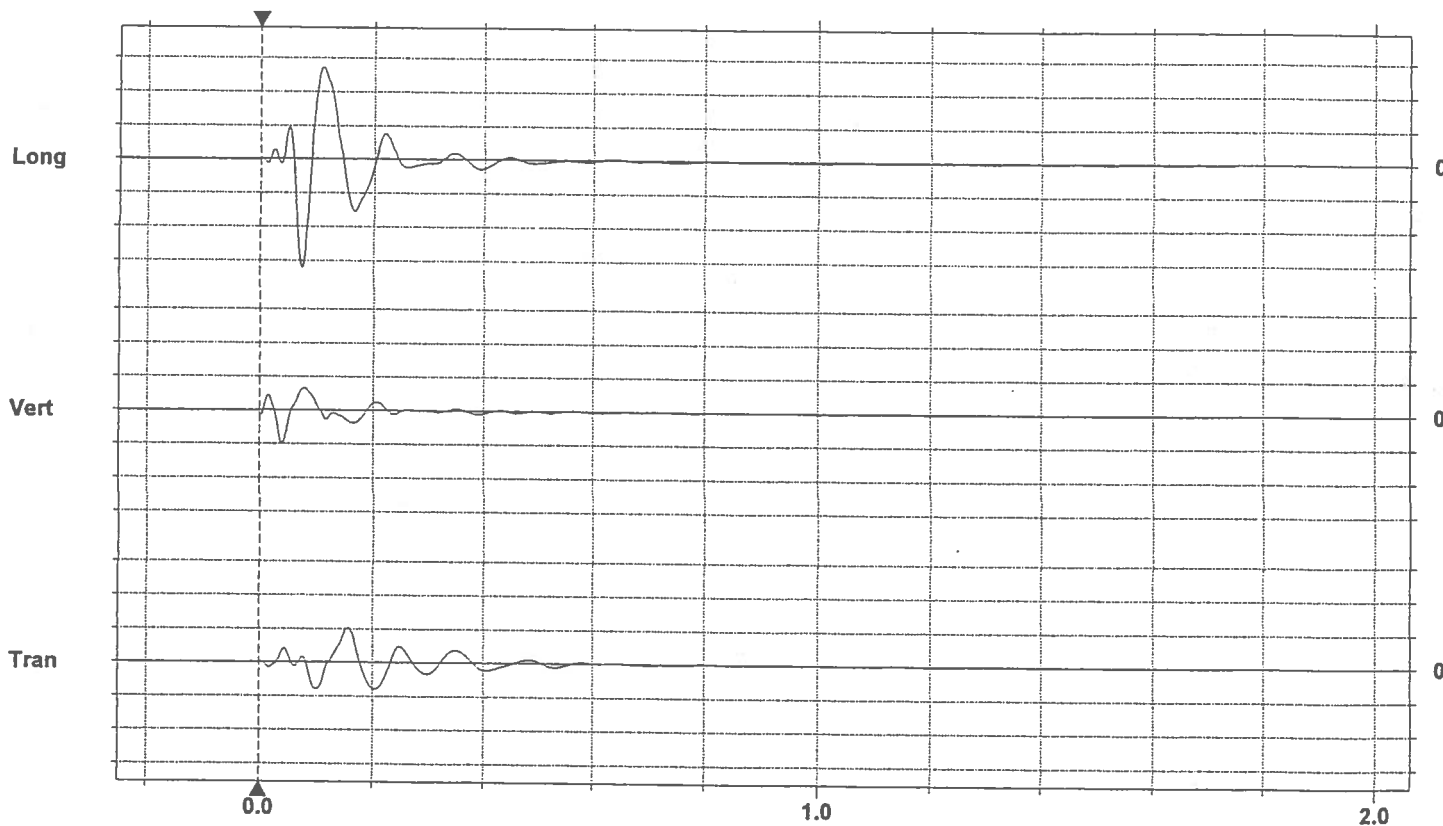
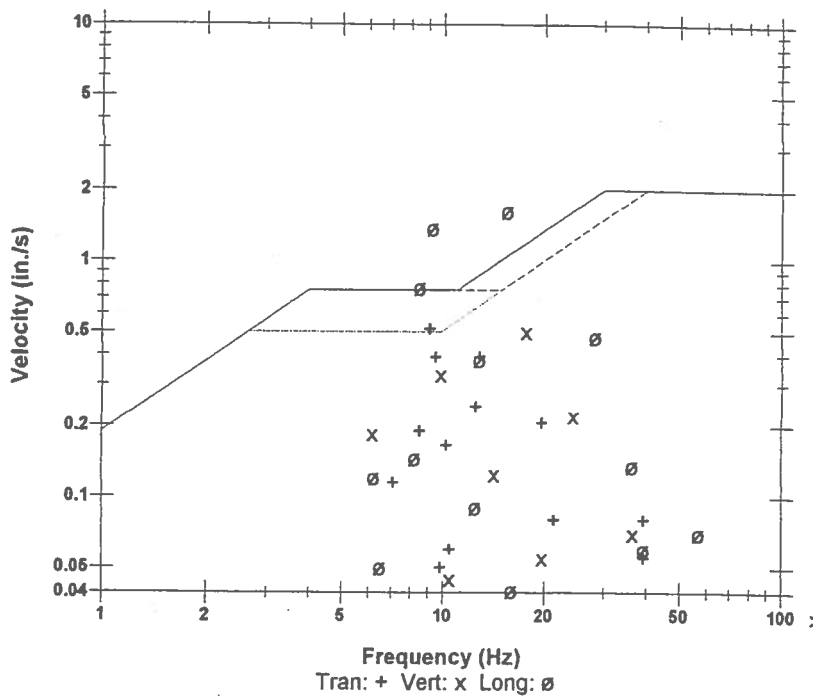
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.515	0.500	1.61	in./s
ZC Freq	9.1	18	16	Hz
Time (Rel. to Trig)	0.156	0.040	0.074	sec
Peak Acceleration	0.0928	0.159	0.384	g
Peak Displacement	0.00753	0.00484	0.0235	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 1.64 in./s at 0.074 sec

N/A: Not Applicable

USBM R18507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 in./s/div
 Trigger = ———▶

Date/Time Vert at 10:29:20 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5571 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by Instantel Inc.
 File Name G5716H3J.SW0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

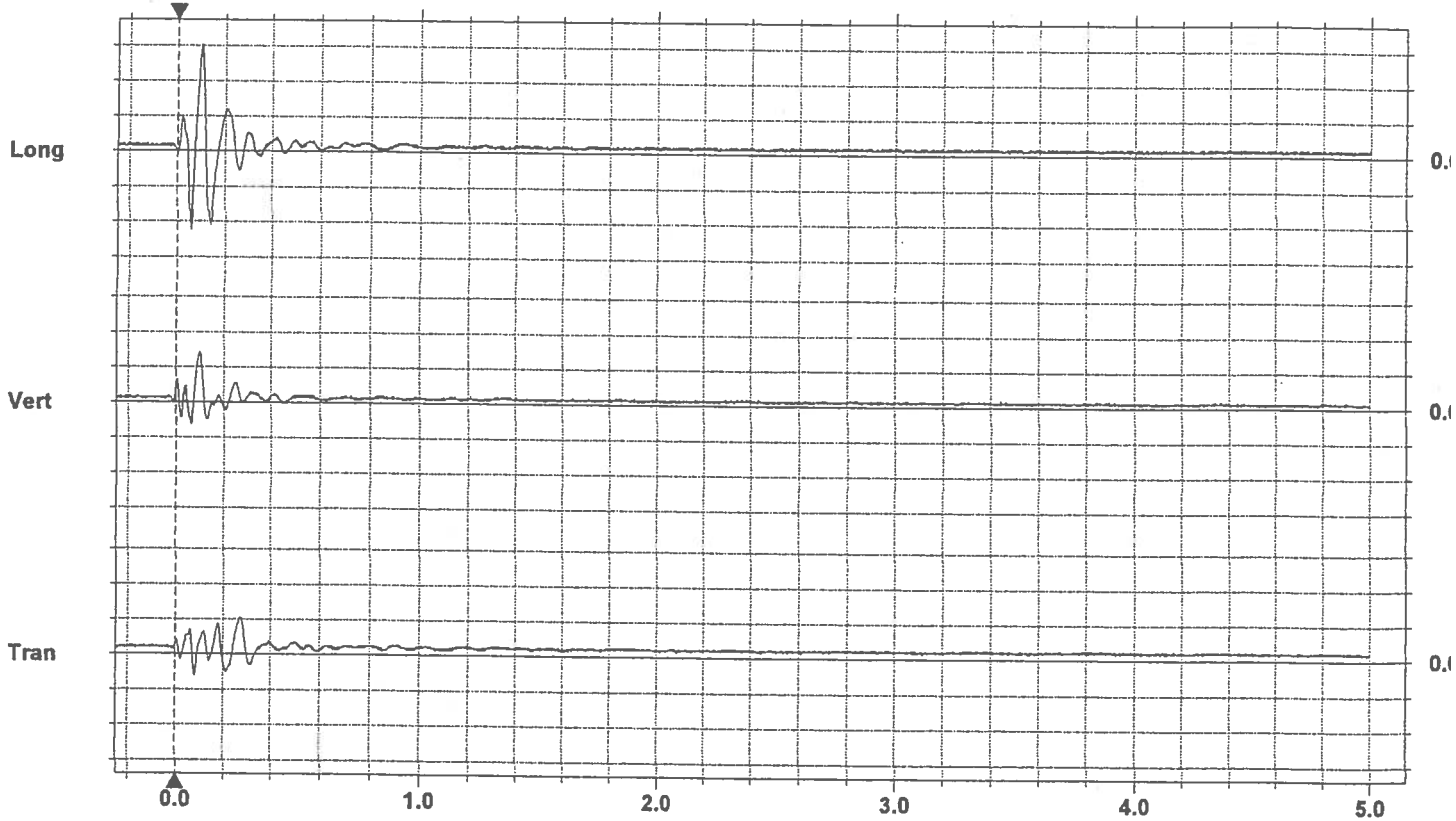
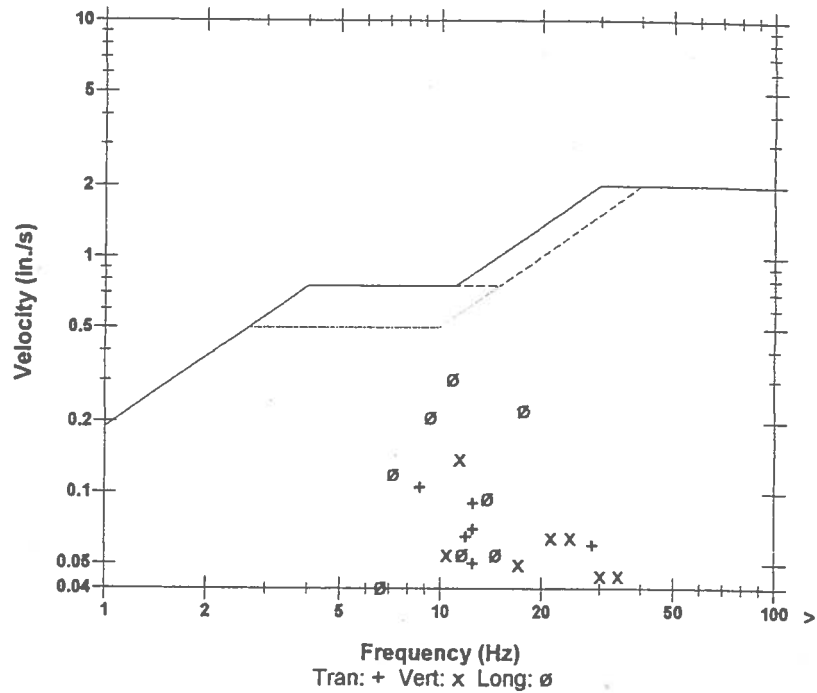
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.105	0.140	0.305	in./s
ZC Freq	8.7	11	11	Hz
Time (Rel. to Trig)	0.268	0.094	0.099	sec
Peak Acceleration	0.0265	0.0398	0.0663	g
Peak Displacement	0.00277	0.00192	0.00419	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.337 in./s at 0.099 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 10:29:22 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5570 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by InstanTel Inc.
 File Name G5706H3J.SY0

Notes

Location:

Client: CC&V

User Name: M.M.C.

General:

Attenuation Study

Post Event Notes

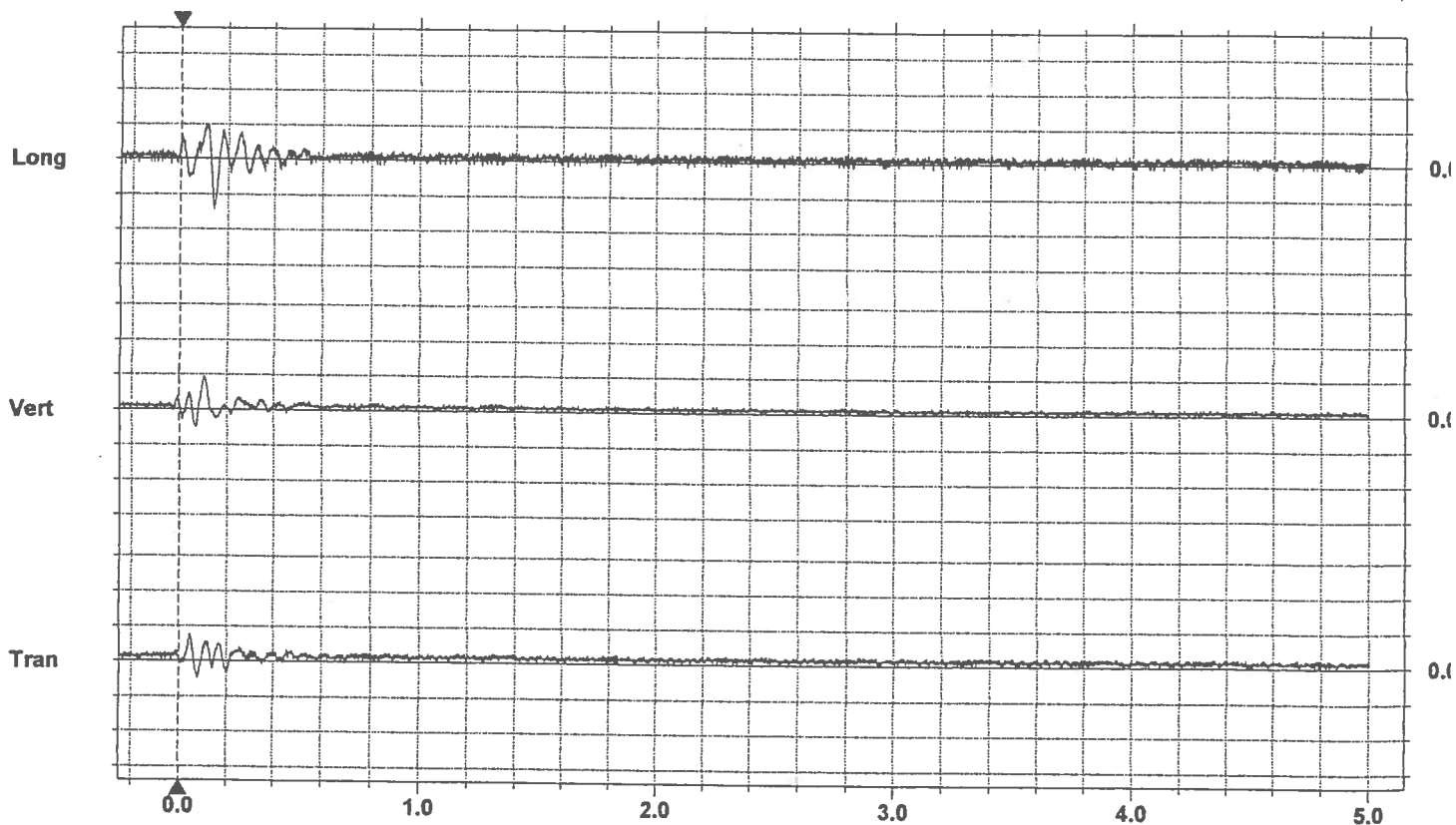
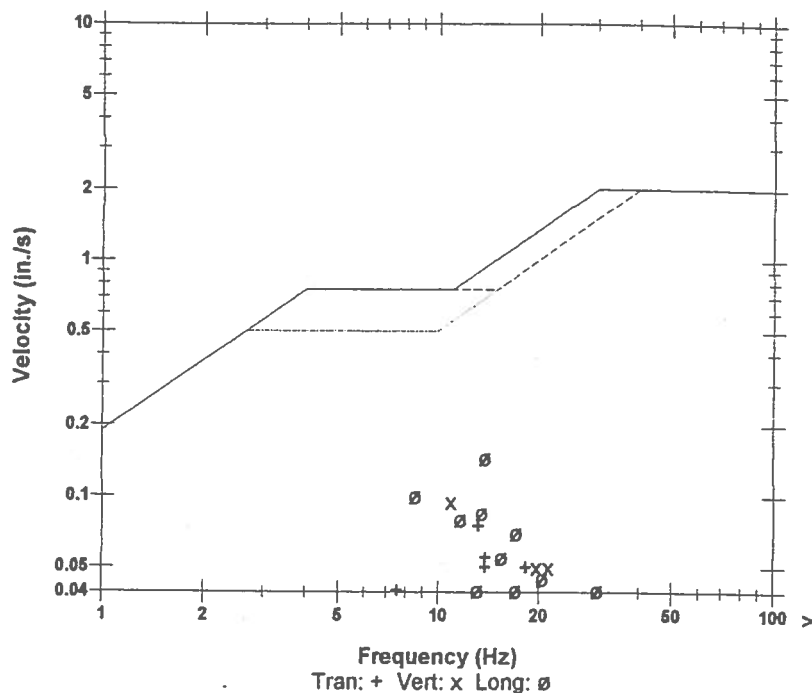
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0750	0.0950	0.145	in./s
ZC Freq	13	11	14	Hz
Time (Rel. to Trig)	0.042	0.102	0.140	sec
Peak Acceleration	0.0530	0.0530	0.0795	g
Peak Displacement	0.00102	0.00125	0.00167	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.145 in./s at 0.140 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./div
 Trigger =

Date/Time Long at 10:29:20 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5536 V 3.11-3.11 MiniMate Plus
 Battery Level 8.6 Volts
 Calibration January 10, 1997 by Instantel Inc.
 File Name G5366H3J.SW0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

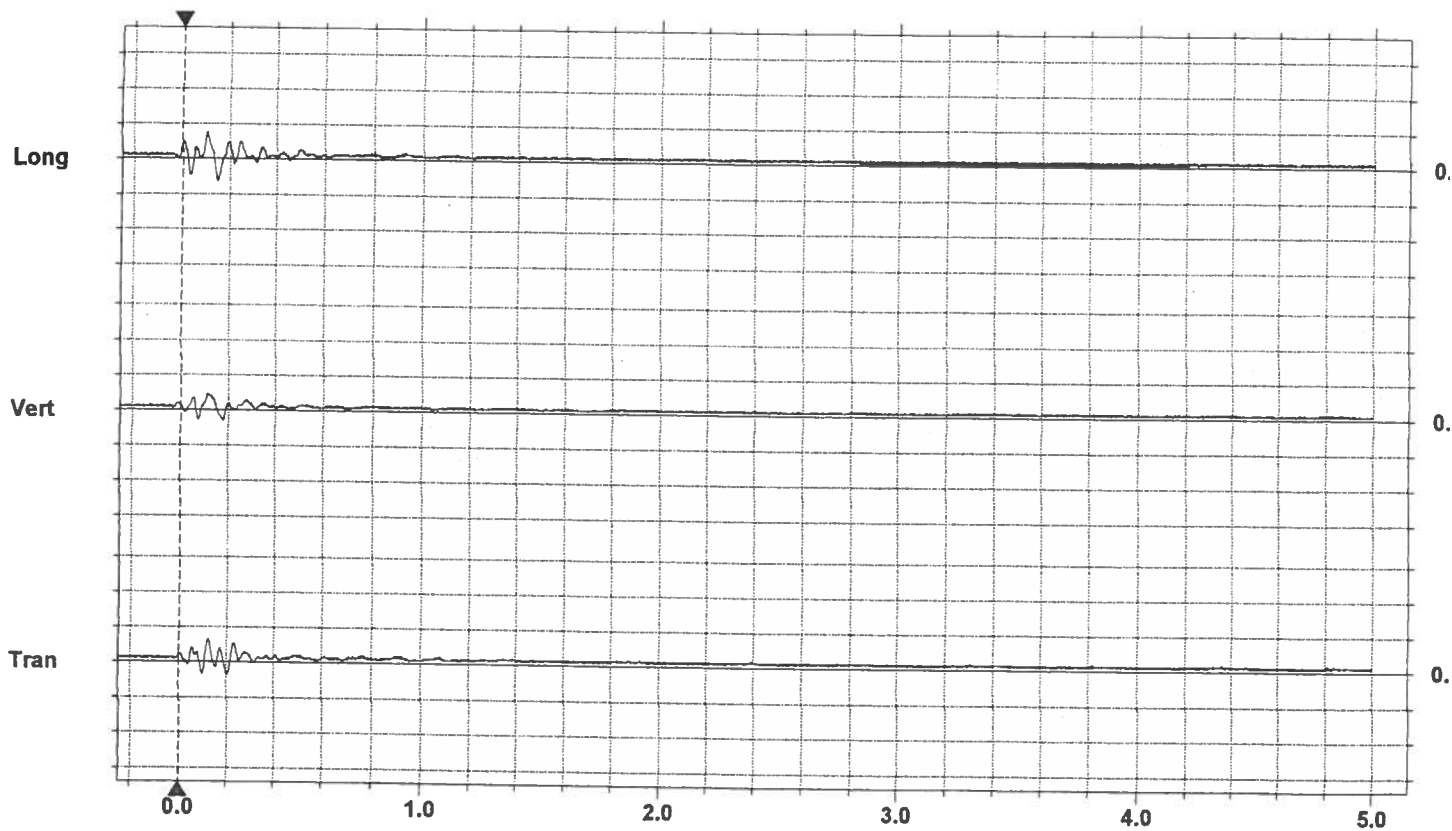
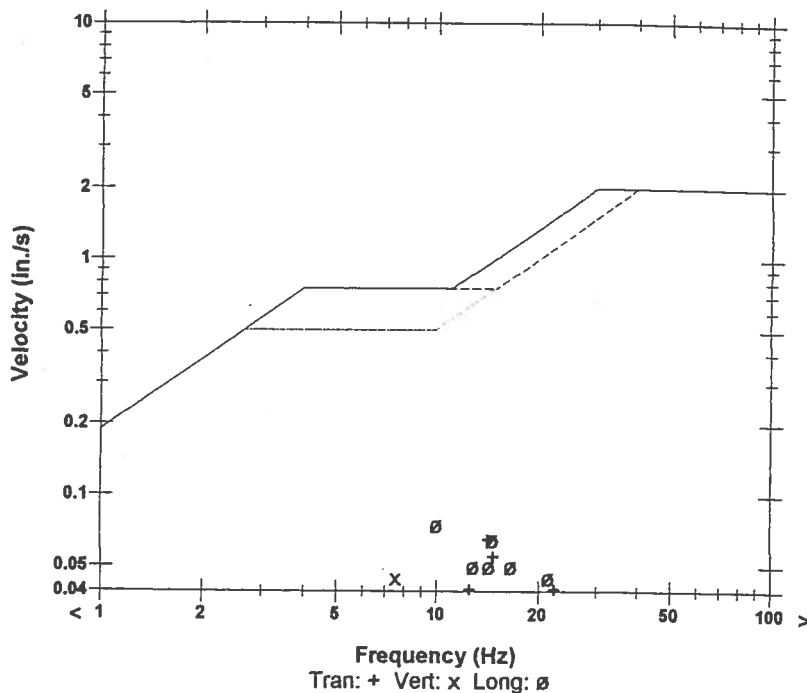
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0650	0.0450	0.0750	in./s
ZC Freq	14	7.5	10	Hz
Time (Rel. to Trig)	0.122	0.109	0.104	sec
Peak Acceleration	0.0265	0.0265	0.0265	g
Peak Displacement	0.00188	0.00698	0.00129	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0850 in./s at 0.118 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 10:28:22 May 29, 1997
 Trigger Source Geo: 0.0200 in./s
 Range Geo: 10.00 in./s
 Record Time 1.75 sec (Auto=1 sec) at 1024 sps

Serial Number BA5546 V 3.11-3.11 BlastMate III
 Battery Level 6.1 Volts
 Calibration February 14, 1997 by Instante! Inc.
 File Name G5466H3J.RA0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

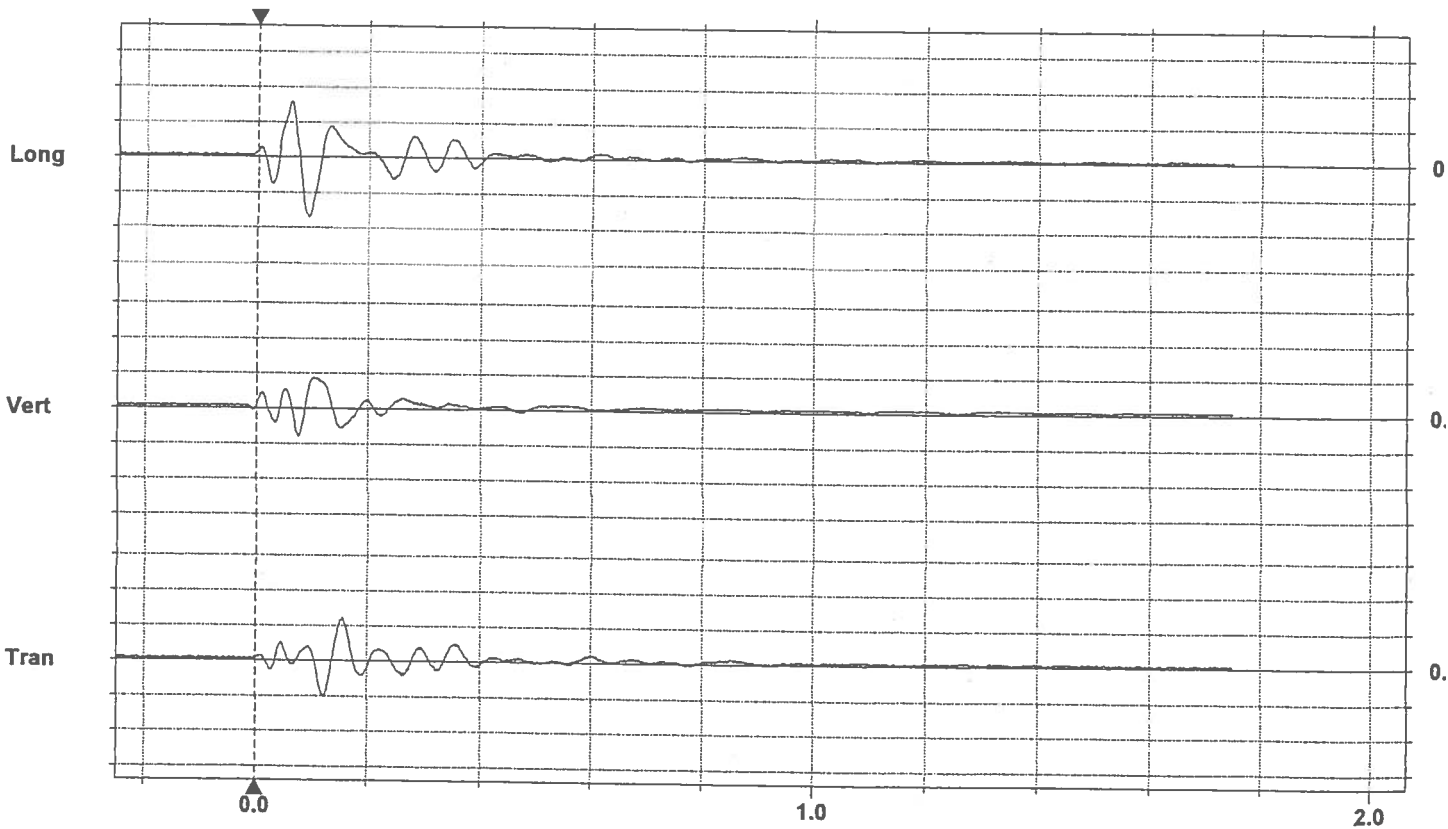
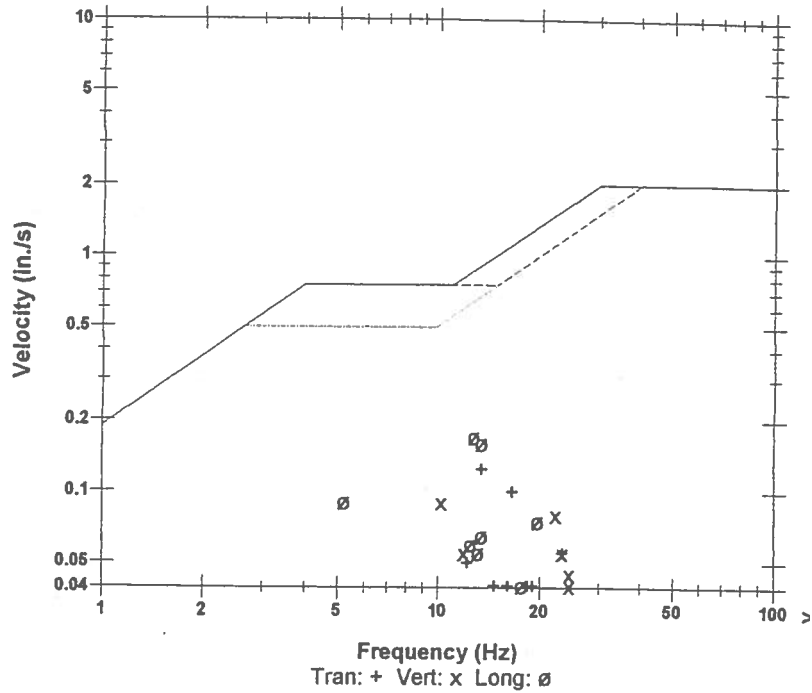
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.125	0.0900	0.170	in./s
ZC Freq	13	10	13	Hz
Time (Rel. to Trig)	0.157	0.105	0.093	sec
Peak Acceleration	0.0398	0.0398	0.0530	g
Peak Displacement	0.00135	0.00155	0.00210	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.182 in./s at 0.094 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Vert at 10:38:56 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 1.75 sec (Auto=1 sec) at 1024 sps

Serial Number BA5552 V 3.11-3.11 BlastMate III
 Battery Level 6.5 Volts
 Calibration January 10, 1997 by InstanTel Inc.
 File Name G5526H3K.8W0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

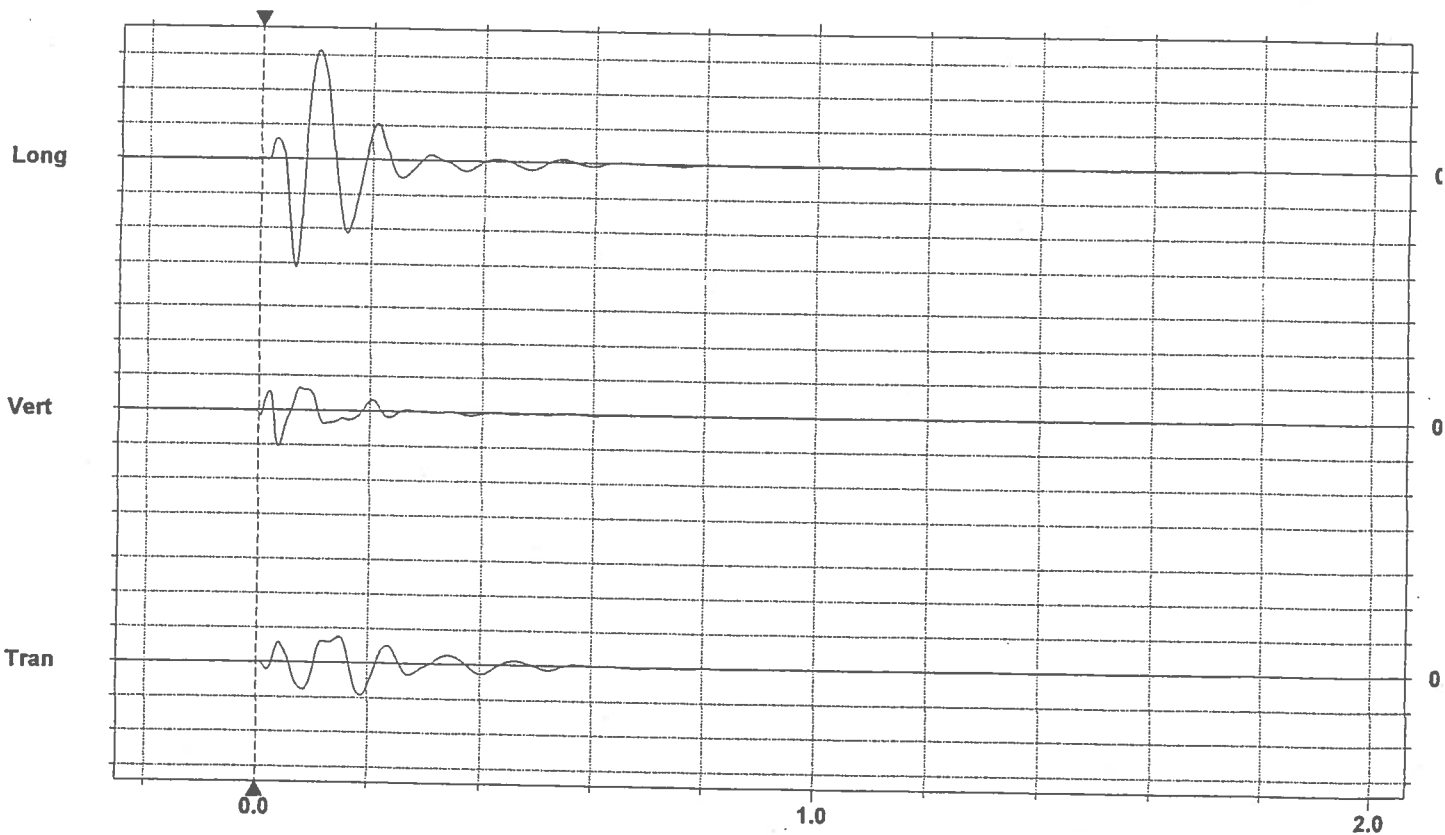
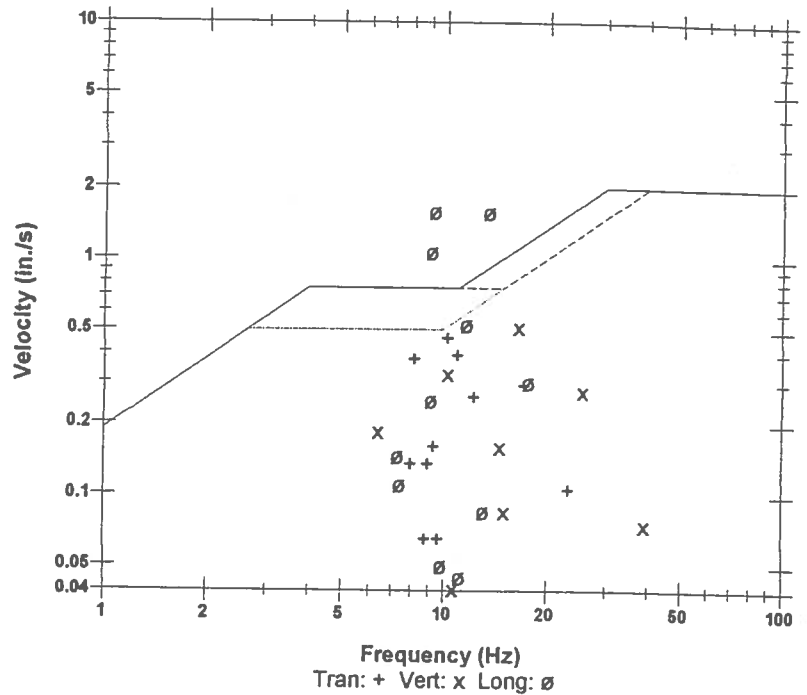
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.460	0.515	1.57	in./s
ZC Freq	10	17	9.3	Hz
Time (Rel. to Trig)	0.187	0.037	0.104	sec
Peak Acceleration	0.106	0.212	0.371	g
Peak Displacement	0.00843	0.00565	0.0278	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 1.58 in./s at 0.065 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 in./s/div
 Trigger =

Date/Time Vert at 10:38:54 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5571 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by InstanTel Inc.
 File Name G5716H3K.8U0

Notes

Location:

Client: CC&V

User Name: M.M.C.

General:

Attenuation Study

Post Event Notes

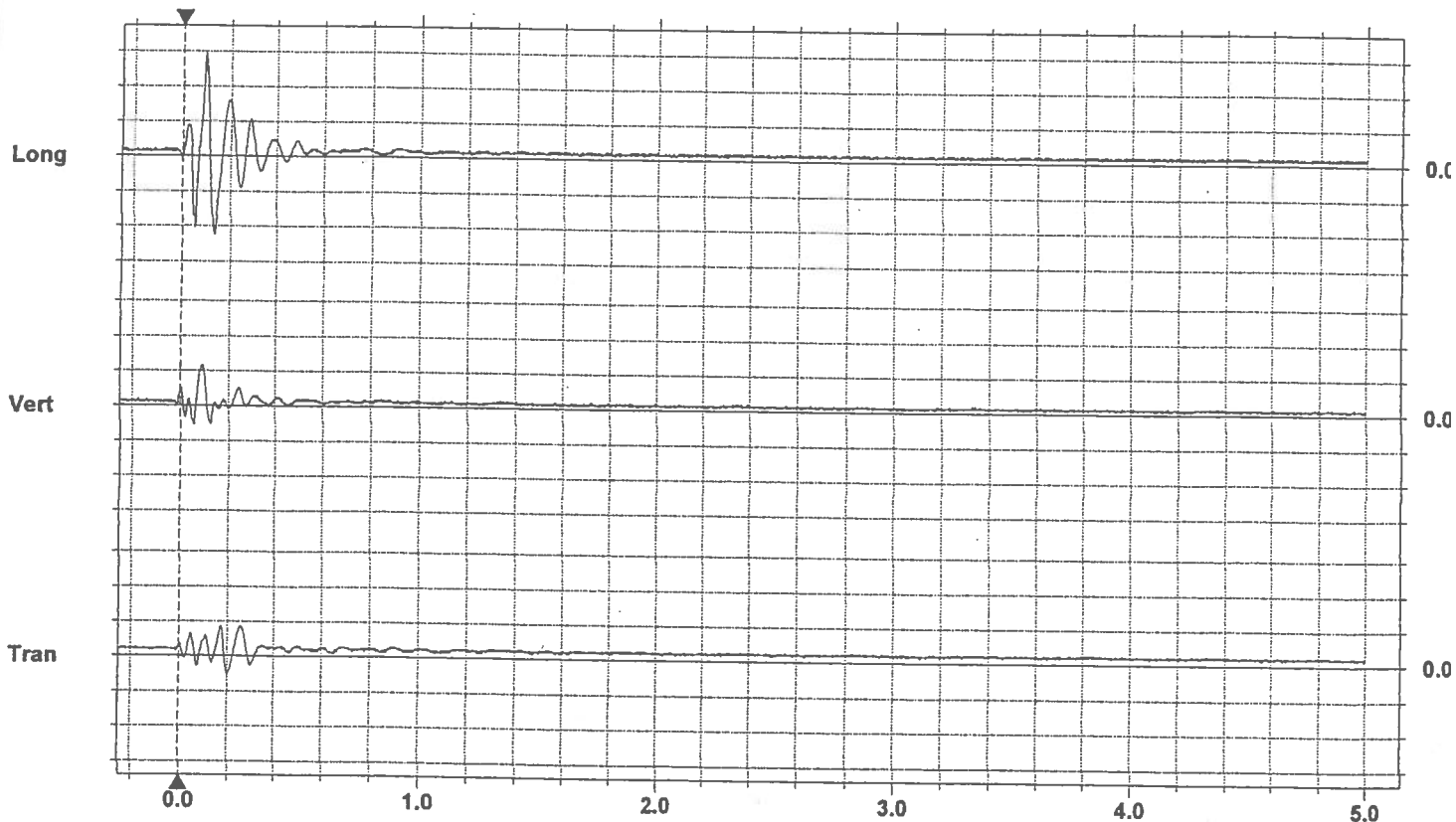
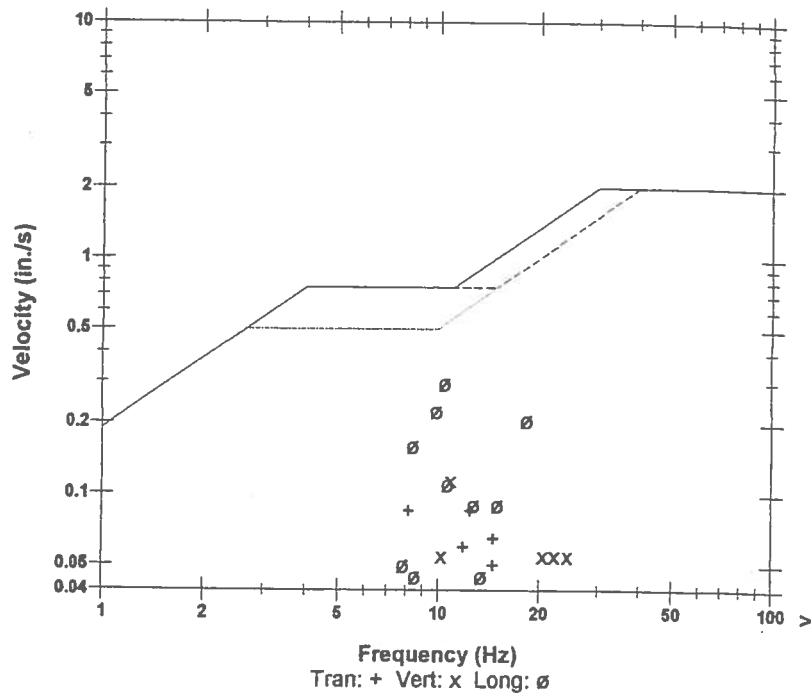
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0850	0.115	0.295	in./s
ZC Freq	12	11	10	Hz
Time (Rel. to Trig)	0.170	0.084	0.093	sec
Peak Acceleration	0.0265	0.0398	0.0663	g
Peak Displacement	0.00274	0.00176	0.00377	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.316 in./s at 0.093 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 10:38:56 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5570 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by Instantel Inc.
 File Name G5706H3K.8W0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

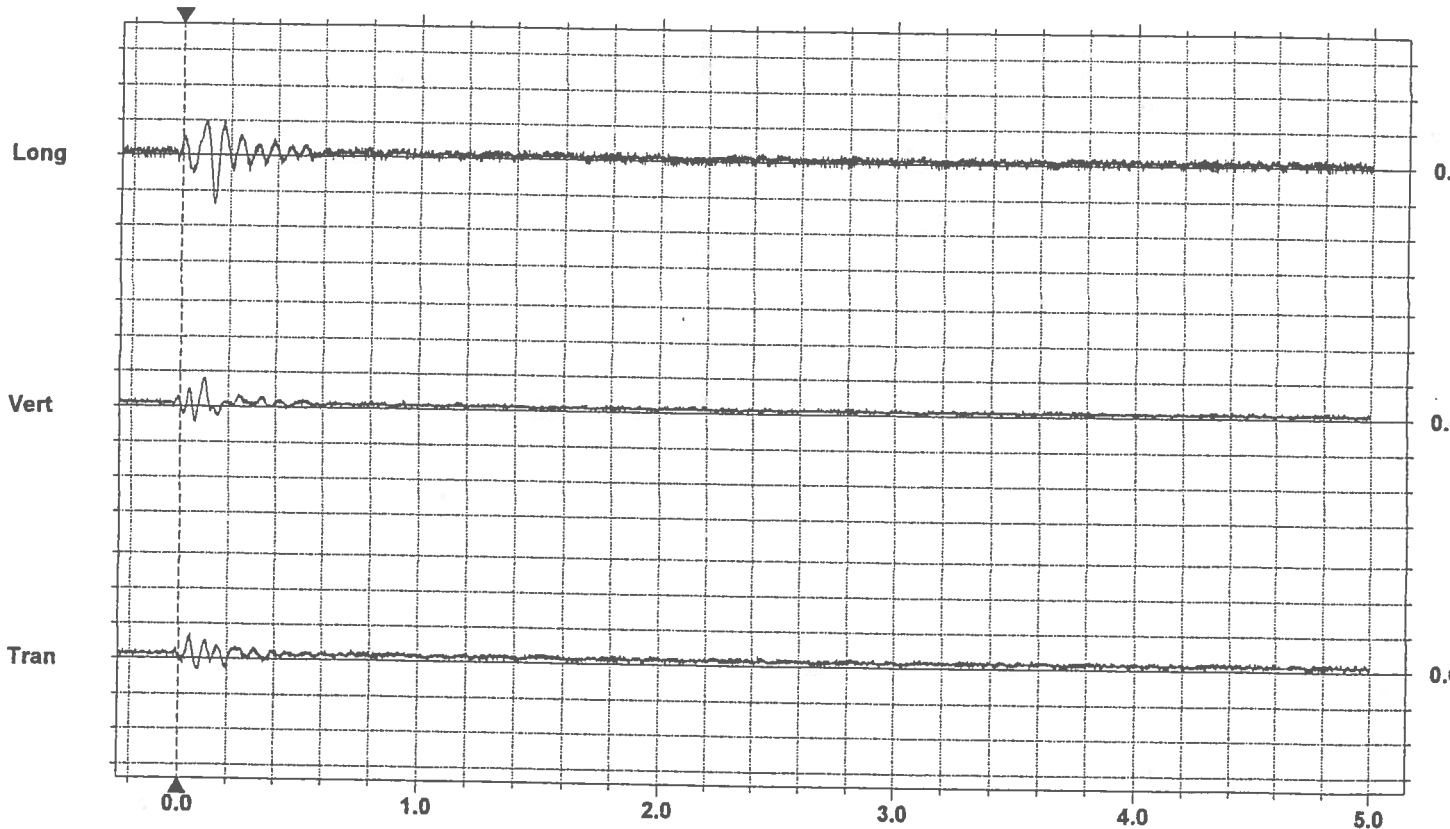
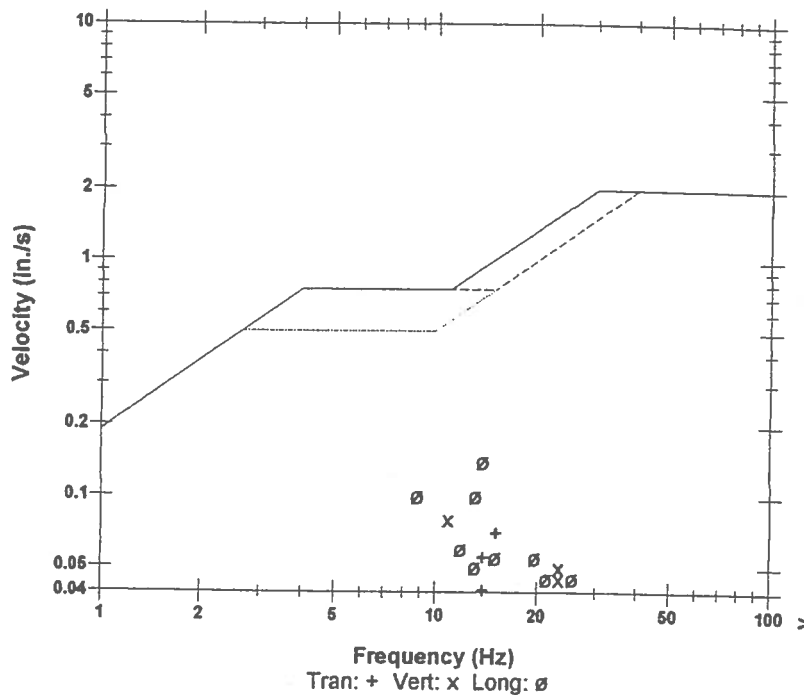
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0700	0.0800	0.140	in./s
ZC Freq	15	11	14	Hz
Time (Rel. to Trig)	0.042	0.096	0.136	sec
Peak Acceleration	0.0530	0.0530	0.0795	g
Peak Displacement	0.00148	0.00111	0.00168	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.140 in./s at 0.136 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 10:38:55 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5536 V 3.11-3.11 MiniMate Plus
 Battery Level 6.5 Volts
 Calibration January 10, 1997 by InstanTel Inc.
 File Name G5366H3K.8V0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

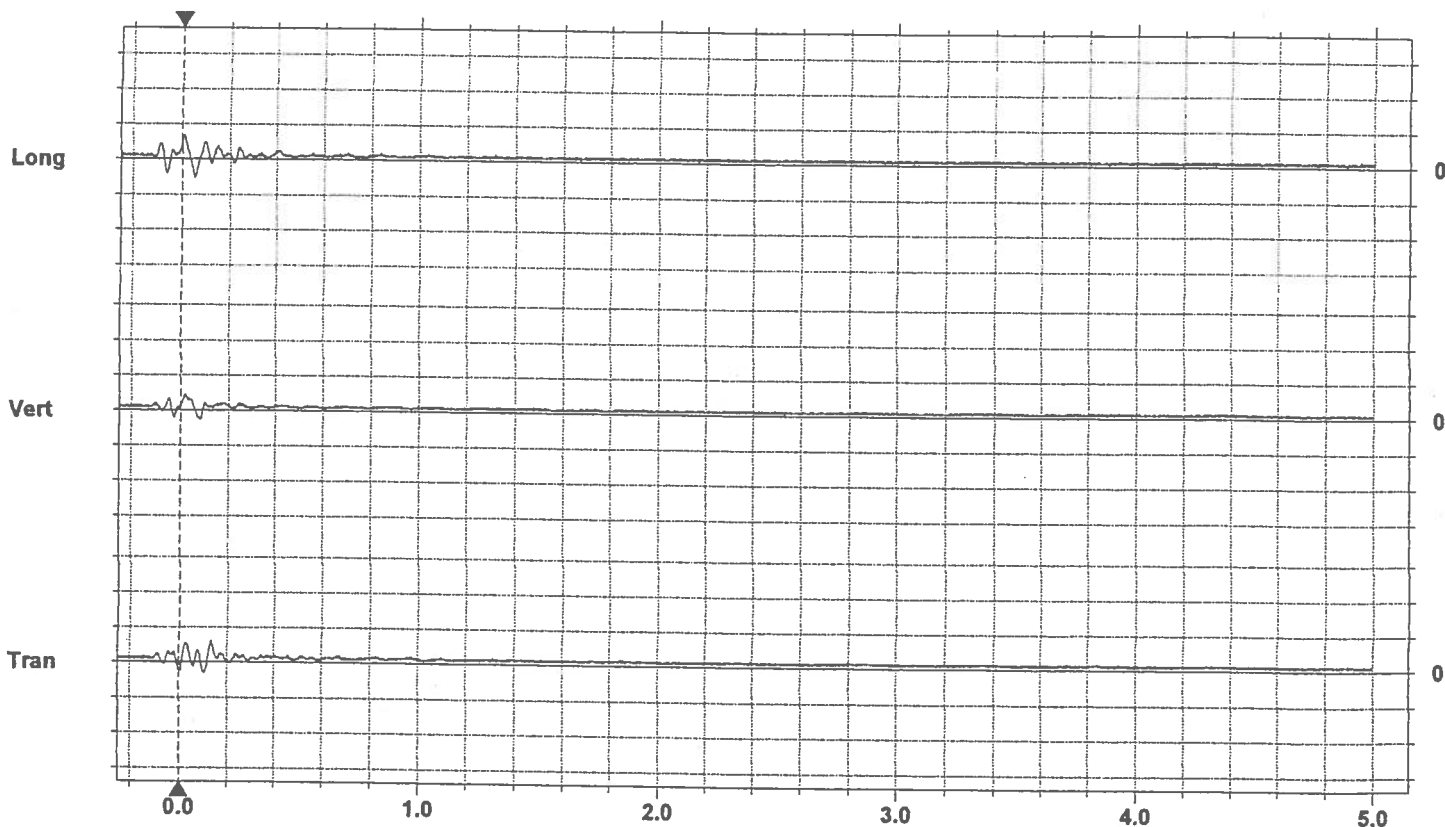
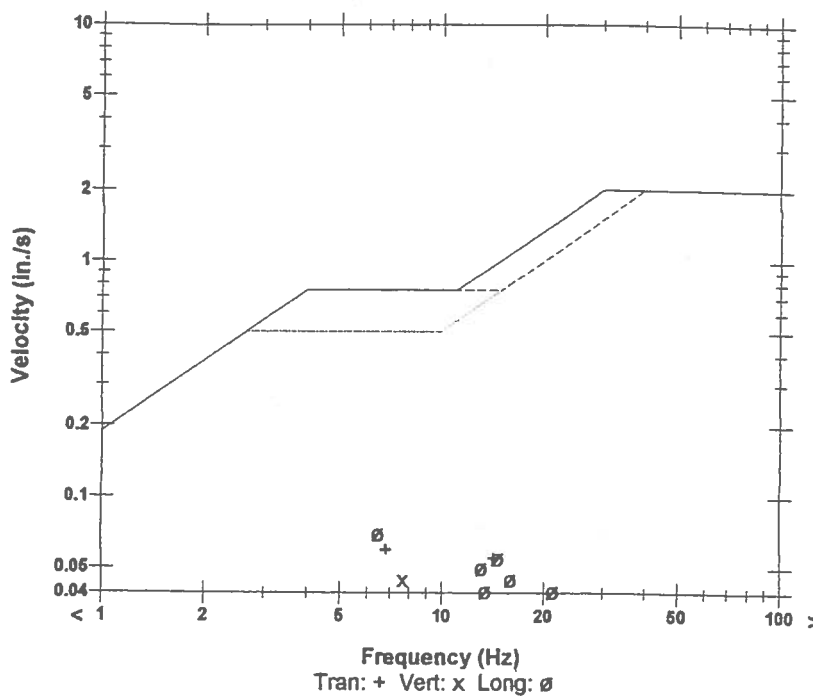
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0600	0.0450	0.0700	in./s
ZC Freq	6.8	7.6	6.5	Hz
Time (Rel. to Trig)	0.135	0.016	0.009	sec
Peak Acceleration	0.0265	0.0265	0.0265	g
Peak Displacement	0.00286	0.0113	0.00115	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.0763 in./s at 0.009 sec

N/A: Not Applicable

USBM R18507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Vert at 10:37:56 May 29, 1997
 Trigger Source Geo: 0.0200 in./s
 Range Geo: 10.00 in./s
 Record Time 2.25 sec (Auto=1 sec) at 1024 sps

Serial Number BA5546 V 3.11-3.11 BlastMate III
 Battery Level 6.1 Volts
 Calibration February 14, 1997 by Instanetel Inc.
 File Name G5466H3K.780

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

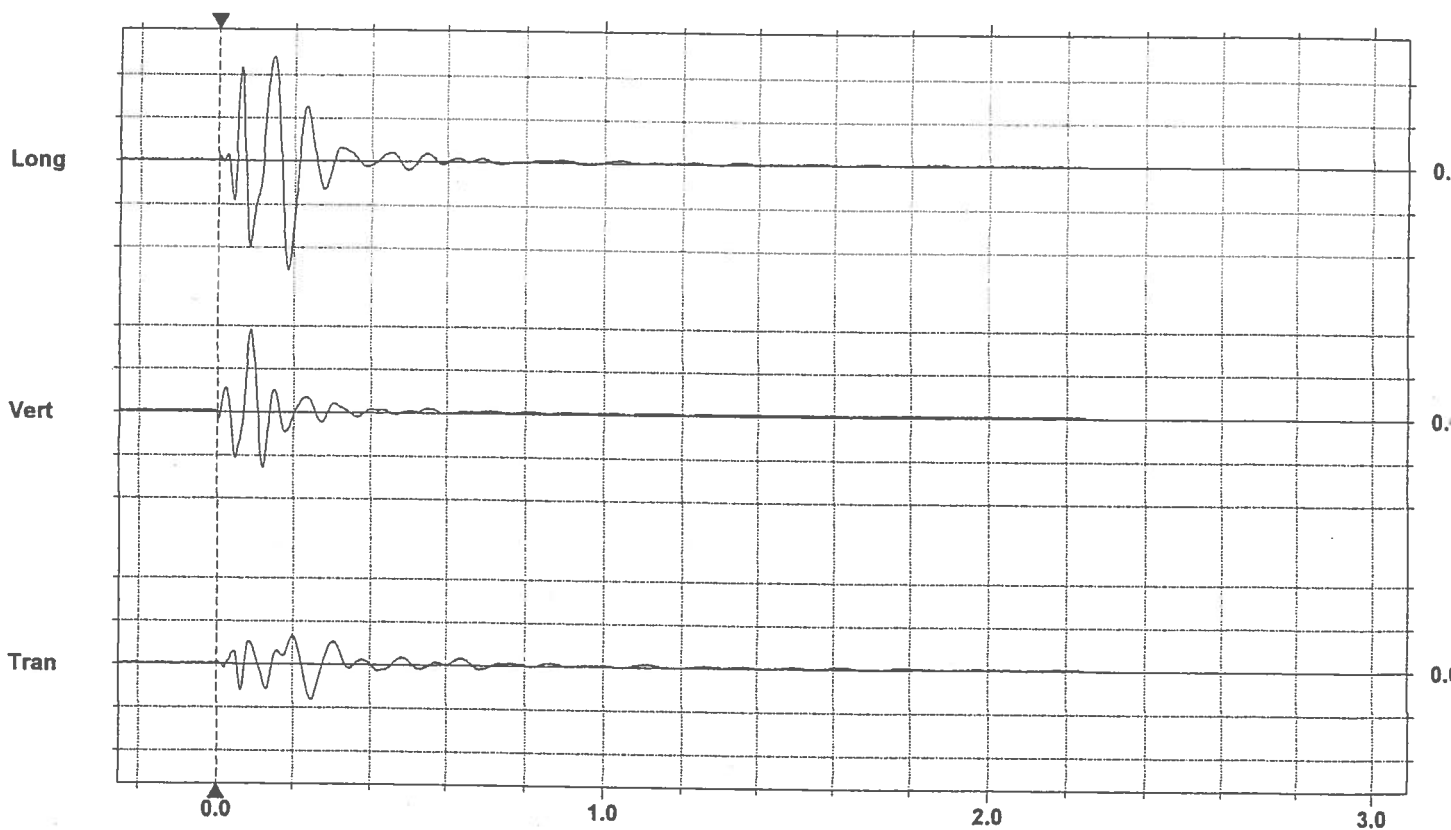
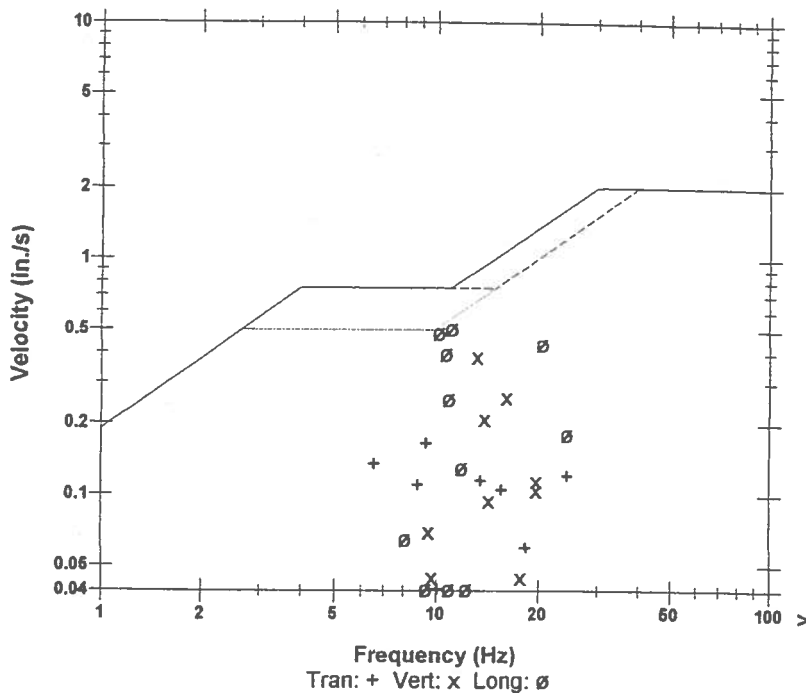
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.165	0.385	0.505	in./s
ZC Freq	9.3	13	11	Hz
Time (Rel. to Trig)	0.248	0.088	0.186	sec
Peak Acceleration	0.0530	0.0928	0.146	g
Peak Displacement	0.00262	0.00430	0.00768	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.554 in./s at 0.086 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.200 in./s/div
 Trigger =

Date/Time Vert at 10:41:10 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 1.75 sec (Auto=1 sec) at 1024 sps

Serial Number BA5552 V 3.11-3.11 BlastMate III
 Battery Level 6.5 Volts
 Calibration January 10, 1997 by Instantel Inc.
 File Name G5526H3K.CM0

Notes

Location:

Client: CC&V

User Name: M.M.C.

General: Attenuation Study

Post Event Notes

Microphone Disabled

PSPL N/A

ZC Freq N/A

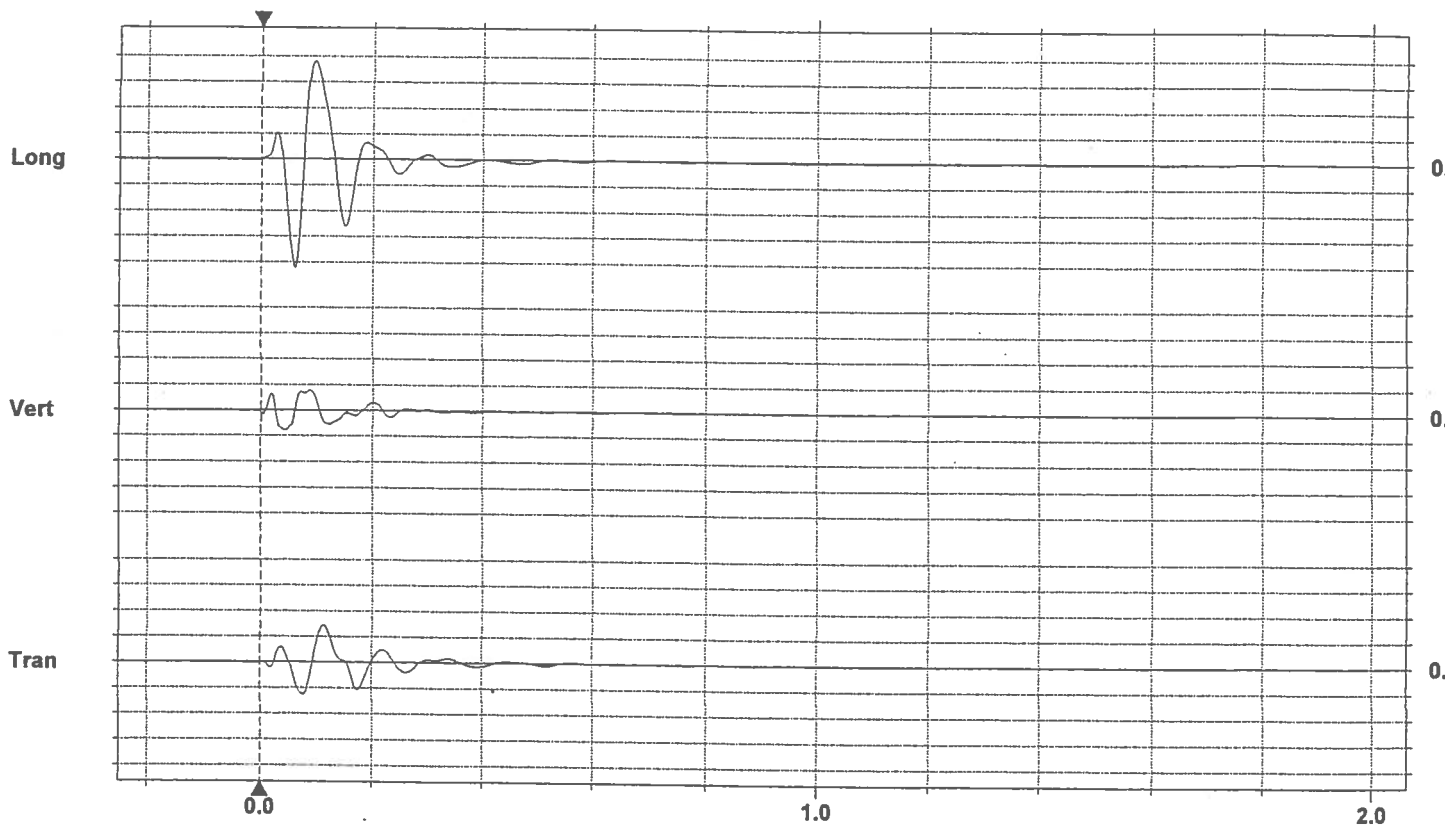
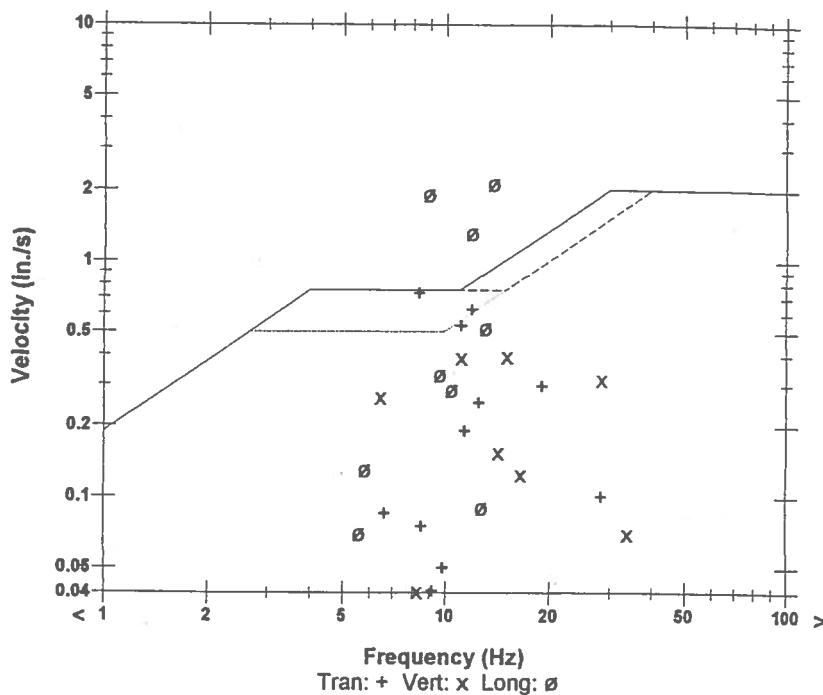
Channel Test N/A

	Tran	Vert	Long	
PPV	0.725	0.395	2.11	in./s
ZC Freq	8.4	15	14	Hz
Time (Rel. to Trig)	0.111	0.045	0.061	sec
Peak Acceleration	0.159	0.199	0.517	g
Peak Displacement	0.0104	0.00646	0.0336	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 2.14 in./s at 0.061 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 in./s/div
 Trigger =

Date/Time Long at 10:41:09 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5571 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by Instantel Inc.
 File Name G5716H3K.CL0

Notes

Location:

Client: CC&V

User Name: M.M.C.

General:

Attenuation Study

Post Event Notes

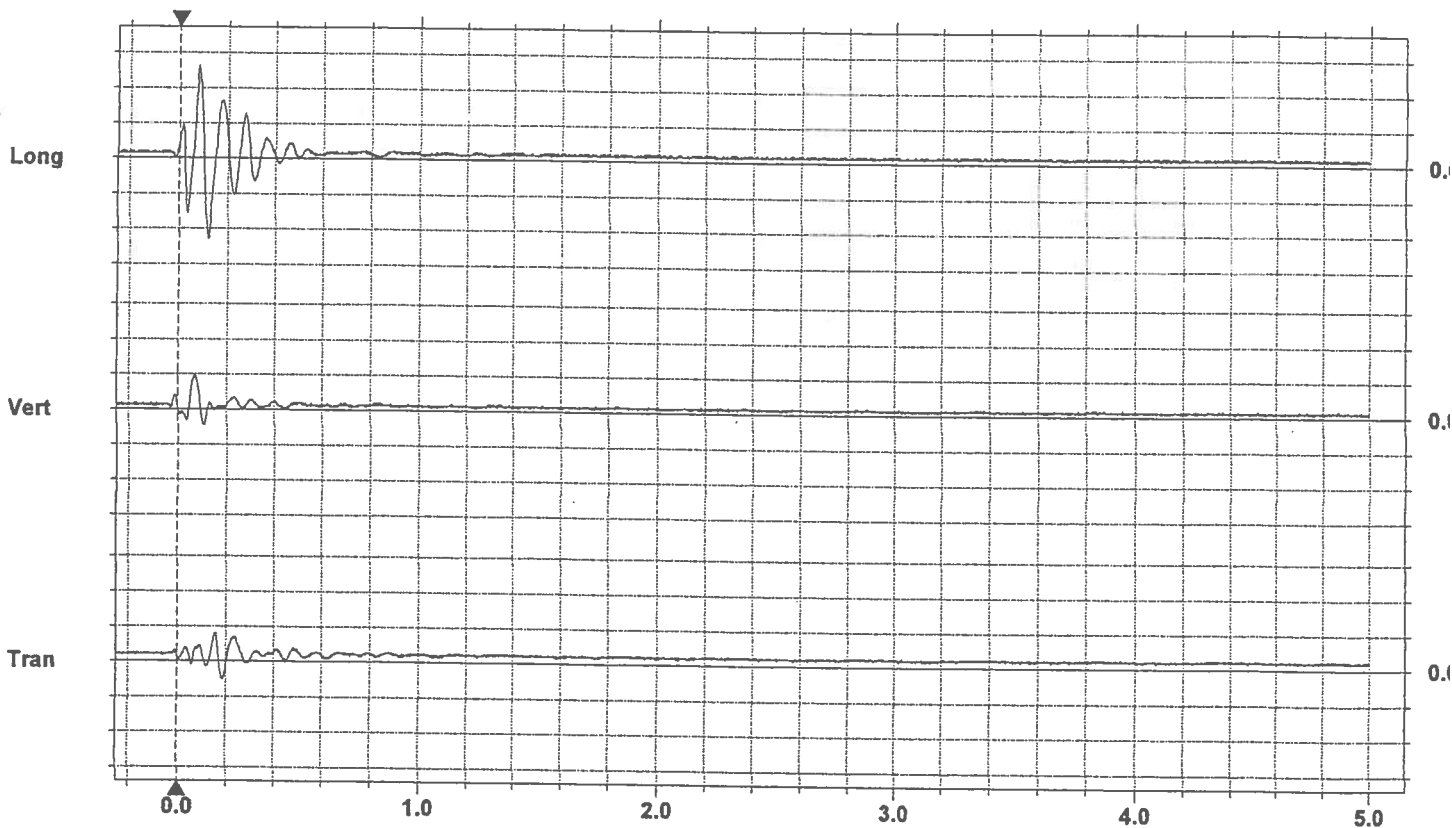
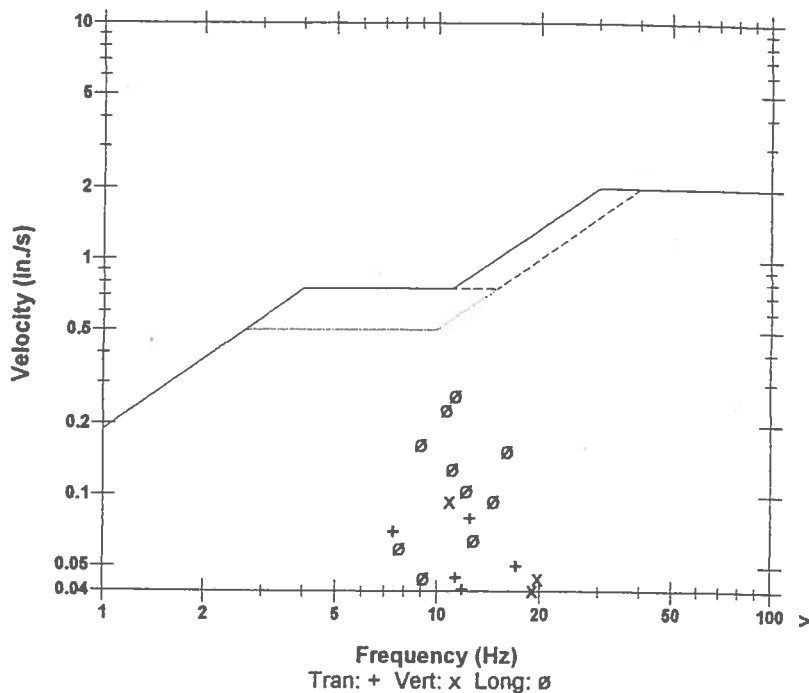
Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0800	0.0950	0.265	in./s
ZC Freq	12	11	11	Hz
Time (Rel. to Trig)	0.151	0.064	0.078	sec
Peak Acceleration	0.0398	0.0265	0.0530	g
Peak Displacement	0.00262	0.00191	0.00340	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.279 in./s at 0.078 sec

N/A: Not Applicable

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.100 in./s/div
 Trigger =

Date/Time Long at 10:41:10 May 29, 1997
 Trigger Source Geo: 0.0500 in./s
 Range Geo: 10.00 in./s
 Record Time 5.0 sec at 1024 sps

Serial Number BC5570 V 3.11-3.11 MiniMate Plus
 Battery Level 6.6 Volts
 Calibration January 17, 1997 by Instantel Inc.
 File Name G5706H3K.CM0

Notes

Location:
 Client: CC&V
 User Name: M.M.C.
 General: Attenuation Study

Post Event Notes

Microphone Disabled
 PSPL N/A
 ZC Freq N/A
 Channel Test N/A

	Tran	Vert	Long	
PPV	0.0550	0.0700	0.125	in./s
ZC Freq	13	11	13	Hz
Time (Rel. to Trig)	0.031	0.088	0.121	sec
Peak Acceleration	0.0663	0.0398	0.0928	g
Peak Displacement	0.00087	0.00086	0.00159	in.
Sensorcheck™	Passed	Passed	Passed	

Peak Vector Sum 0.125 in./s at 0.123 sec

N/A: Not Applicable

USBM RI8507 And OSMRE

