

Frequency (Hz)	Frequency(rad/s)	Acceleration Amplitude (V)	Acceleration (m/s^2)	Phase Lead of Acceleration	Time Shift
20.12	126.4176884	0.126	12.48545455	186.1	0.024
18.96	119.1291934	0.123	12.18818182	186.6	0.025
18.09	113.6628222	0.153	15.16090909	188	0.026
17.18	107.9451236	0.205	20.31363636	191.8	0.027
16.38	102.9185753	0.281	27.84454545	198.5	0.027
14.47	90.91769139	0.694	68.76909091	276.7	0.016
14.63	91.92300104	0.056	5.549090909	350.5	0.002
14	87.9645943	0.038	3.765454545	358	0
12.93	81.24158602	0.016	1.585454545	358.1	0
11.88	74.64424145	0.01	0.990909091	2.5	0.084
10.96	68.86371097	0.014	1.387272727	97.9	0.066
10.14	63.71149901	0.009	0.891818182	169.5	0.052
9.16	57.55397741	0.009	0.891818182	181.9	0.054
7.95	49.95132319	0.013	1.288181818	187	0.06
7.28	45.74158904	0.027	2.675454545	190.7	0.065
6.93	43.54247418	0.071	7.035454545	195.6	0.066
6.86	43.10265121	0.089	8.819090909	204.2	0.063
6.58	41.34335932	0.148	14.66545455	288.2	0.03
6.3	39.58406744	0.102	10.10727273	456.2	-0.042
6.06	38.07610296	0.007	0.693636364	6.6	0.162
5.03	31.6044221	0.002	0.198181818	15.7	0.19
4.07	25.5725642	0.001	0.099090909	799.2	-0.299
2.99	18.78672407	0.001	0.099090909	599.4	-0.222

Calibration

99 mV/g  
0.099 V/g