

Appendix D – Test Data Package Checklist



GLAST LAT Project GASU/PDU Vibration Testing

Qualification/Acceptance Test Data Package Checklist
(Items supplied by Wyle Labs at end of test)

HCB YL 1/30/06

QUANTA YL 1/30/06

Item		Description / Location
1	✓	Calibrated Equipment List
2		Vibration Test plots (Pre- and Post test signature overlays and random vibration test data for Z, X, and Y axes)
3		Electronic Data in UFF or equivalent format, if available
4		Photographs of test setup
5		Procedure data sheets (Appendices A, B, and C)
6	N/A	Visual Inspection Report
7	N/A	Test Control System Software Setup Sheets

HCB SN# 2438 ACCEPTANCE

11575 1/30/06



Appendix B – Test Log 01/24/06

GLAT2438-HCB Acceptance Unit



DATE	TIME	UNIT #	AXIS	SINE RANDOM	LEVEL (g) ² (m/s²)	FREQUENCY [Hz]	FILE NAME	REMARKS
01/24/06	9:43	2438	Y	SIN SWEEP	0.15	5-2000		
	10:00		Y	SIN	1.2 etc	5-50		
	10:03		Y	SWEEP	0.15	5-2000		
	10:11		Y	Random	6.8	20-2000		
	10:15		Y	SWEEP	0.15	5-2000		
	10:26		Z	SWEEP	0.15	5-2000		
	10:35		Z	SIN	0.2 etc	5-50		
	10:38		Z	SWEEP	0.15	5-2000		
	10:45		Z	Random	6.8	20-2000		
	10:50		Z	SWEEP	0.15	5-2000		
	11:29		X	SWEEP	0.15	5-2000		
	11:35		X	SIN	1.3 etc	5-50		
	11:40		X	SWEEP	0.15	5-2000		
	11:49		X	Random	6.8	20-2000		
	11:52		X	SWEEP	0.15	5-2000		

LIST OF CALIBRATED ACCELEROMETERS UPDATED ON 01/04/2006

MODEL	MAKE	SERIAL	ASSET	SENSITIVITY (mv/G)	DATE PUT TO SERVICE	CAL DATE	DUE DATE	FREQ. UP TO (Hz)	RANGE IN G	REMARK	NO.
CONTROL ACCELEROMETERS											
3141A	DYTRAN	117	QL-0193	101.47	06-22-89	10-04-05	10-04-06	2000	50	in service	1
3141A	DYTRAN	104	QL-0196	106.1	06-29-89	10-04-05	10-04-06	2000	50	in service	2
3132A	DYTRAN	101	QL-0194	96.5	06-29-89	10-04-05	10-04-06	2000	50	in service	3
3055A2	DYTRAN	455	QL-0699	101.36	02-16-04	12-19-05	12-19-06	2000	50	in service	4
3055A2	DYTRAN	425	QL-0697	105.18	02-16-04	12-19-05	12-19-06	2000	50	in service	5
3055A2	DYTRAN	456	QL-0700	103.22	02-16-04	12-02-05	12-02-06	2000	50	in service	6
3055A2	DYTRAN	457	QL-0701	103.72	02-16-04	12-27-05	12-27-06	2000	50	in service	7
3055A2	DYTRAN	458	QL-0702	101.75	02-16-04	12-27-05	12-27-06	2000	50	in service	8
3055A2	DYTRAN	424	QL-0696	101.7	02-16-04	12-28-05	12-28-06	2000	50	in service	9
3055A2	DYTRAN	454	QL-0698	101.34	02-16-04	12-27-05	12-27-06	2000	50	in service	10
7254-10	ENDEVCO	AE26	QL-0408	10.04	02-14-01	03-08-05	03-08-06	2000	500	in service	11
7254-10	ENDEVCO	AE32	QL-0409	9.99	02-14-01	03-08-05	03-08-06	2000	500	in service	12
7254-10	ENDEVCO	AE25	QL-0410	10.35	10-23-03	10-05-05	10-05-06	2000	500	in service	13
7254-10	ENDEVCO	AE31	QL-0411	9.68	10-24-03	10-05-05	10-05-06	2000	500	in service	14
7254-10	ENDEVCO	AE21	QL-0412	9.62	10-27-03	10-05-05	10-05-06	2000	500	in service	15
7254-10	ENDEVCO	AE24	QL-0413	9.95	10-27-03	10-05-05	10-05-06	2000	500	in service	16
3030A4	DYTRAN	1380	QL-0220	9.75	07-03-90	10-05-05	10-05-06	2000	500	in service	17
3030A4	DYTRAN	1383	QL-0222	9.8	07-03-90	10-04-05	10-04-06	2000	500	in service	18
3030A4	DYTRAN	1384	QL-0223	9.55	07-03-90	10-04-05	10-04-06	2000	500	in service	19
3030A4	DYTRAN	1385	QL-0224	9.78	07-03-90	10-04-05	10-04-06	1000	500	in service	20
3030A4	DYTRAN	1386	QL-0225	9.83	07-03-90	03-10-05	03-10-06	2000	500	in service	21
3200A5T	DYTRAN	355	QL-0447	1.13	03-02-98	10-11-04	10-04-06	5000	2000	in service	22
3200A5T	DYTRAN	396	QL-0131	1.14		11-05-04	10-04-06	5000	2000	in service	23
3055A2	DYTRAN	423	QL-0695	105.8	02-16-04	12-28-05	12-28-06	2000	50	in service	24
3055A2	DYTRAN	422	QL-0694	103.48	02-16-04	12-19-05	10-04-06	2000	50	in service	25
3055A2	DYTRAN	421	QL-0693	103.89	02-16-04	12-19-05	10-04-06	1000	50	in service	26
RESPONSE ACCELEROMETERS											
3031AG	DYTRAN	241	QL-0241	9.06	01-02-91	03-08-05	03-08-06	2000	500	in service	27
3031AG	DYTRAN	242	QL-0242	9.13	01-02-91	03-08-05	03-08-06	2000	500	in service	28
3031AG	DYTRAN	244	QL-0244	9.17	01-02-91	11-02-05	11-02-06	2000	500	in service	29
3031AG	DYTRAN	245	QL-0245	9.18	01-02-91	11-02-05	11-02-06	500	500	in service	30
3031AG	DYTRAN	248	QL-0248	9.76	01-02-91	03-08-05	03-10-06	2000	500	in service	31
3121A	DYTRAN	763	QL-0114	46.2	10-02-87	11-05-05	11-05-06	2000	100	in service	32

Control →

→

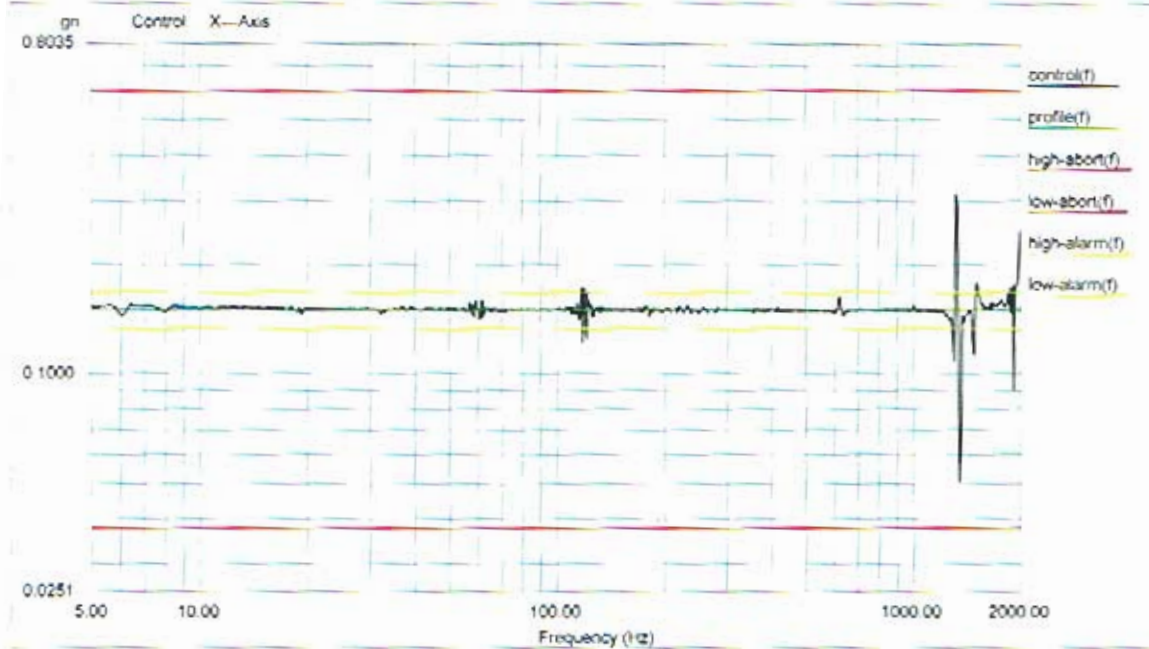
3031AG	DYTRAN	238	QL-0240	9.93	07-03-91	03-08-05	03-08-06	2000	500	in service	33
3031AG	DYTRAN	251	QL-0239	8.16	01-02-91	03-08-05	03-08-06	2000	500	in service	34
3031AG	DYTRAN	252	QL-0247	9.76	01-02-91	11-02-05	11-02-06	2000	500	in service	35
3031AG	DYTRAN	1844	QL-0274	10.28	01-30-93	11-02-05	11-02-06	2000	500	in service	36
3031AG	DYTRAN	1837	QL-0272	10.03	03-25-93	11-02-05	11-02-06	1000	500	in service	37
3010A7	DYTRAN	598	QL-0294	9.62		11-05-06	11-05-06	1000	500	in service	38
3010A4	DYTRAN	334	QL-0295	9.77		11-05-05	11-05-06	2000	500	in service	39
3200AT	DYTRAN	800	QL-0289	0.05		04-15-05	04-15-06	5000	2000	in service	40
3200AT	DYTRAN	803	QL-0803	0.052		04-15-05	04-15-06	5000	2000	in service	41
3225F1	DYTRAN	2625	QL-0705	10.1		12-02-05	12-02-06	2000	500	in service	42
3225F1	DYTRAN	2626	QL-0706	10.7		07-06-05	07-06-06	2000	500	in service	43
3101B3	DYTRAN	2903	QL-0460	9.95		03-09-05	03-09-06	2000	500	in service	44
3101B4	DYTRAN	2905	QL-0461	10.12	02-18-00	03-09-05	03-09-06	2000	500	in service	45
3101B5	DYTRAN	2909	QL-0462	9.95	02-04-00	03-09-05	03-09-06	2000	500	in service	46
3115A	DYTRAN	188	QL-0445	9.88		10-03-05	10-03-06	1000	500	in service	47
3055A3	DYTRAN	394	QL-0704	494.6		12-28-05	12-28-06	2000	50	in service	48
3055A3	DYTRAN	393	QL-0703	470		12-28-05	12-28-06	2000	50	in service	49

ACCELEROMETERS FOR SEISMIC APPLICATION

393A03	PCB	8243	QL-0559	974	11-06-00	10-16-04	10-16-05	2000	5		50
J353B33	PCB	72977	QL-0565	101.33	04-07-01	11-08-05	11-08-06	2000	50	in service	51
J353B33	PCB	72976	QL-0564	103.23	11-17-04	11-08-05	11-08-06	2000	50	in service	52
393A03	PCB	15373	QL-0558	102.2	11-17-04	11-16-04	11-16-05	2000	50		53
205C	PCB	1404	QL-0570	0.0813mv/Lb		08-16-05	08-16-06			in service	54
203B	PCB	1471	QL-0545	0.2673mv/Lb		08-16-05	08-16-06			in service	55
3200B4	DYTRAN	3380	QL-0692	0.54		04-15-05	04-15-06	2000	5000	in service	56
3200B4	DYTRAN	3456	QL-0691	0.52		04-15-05	04-15-06	2000	5000	in service	57

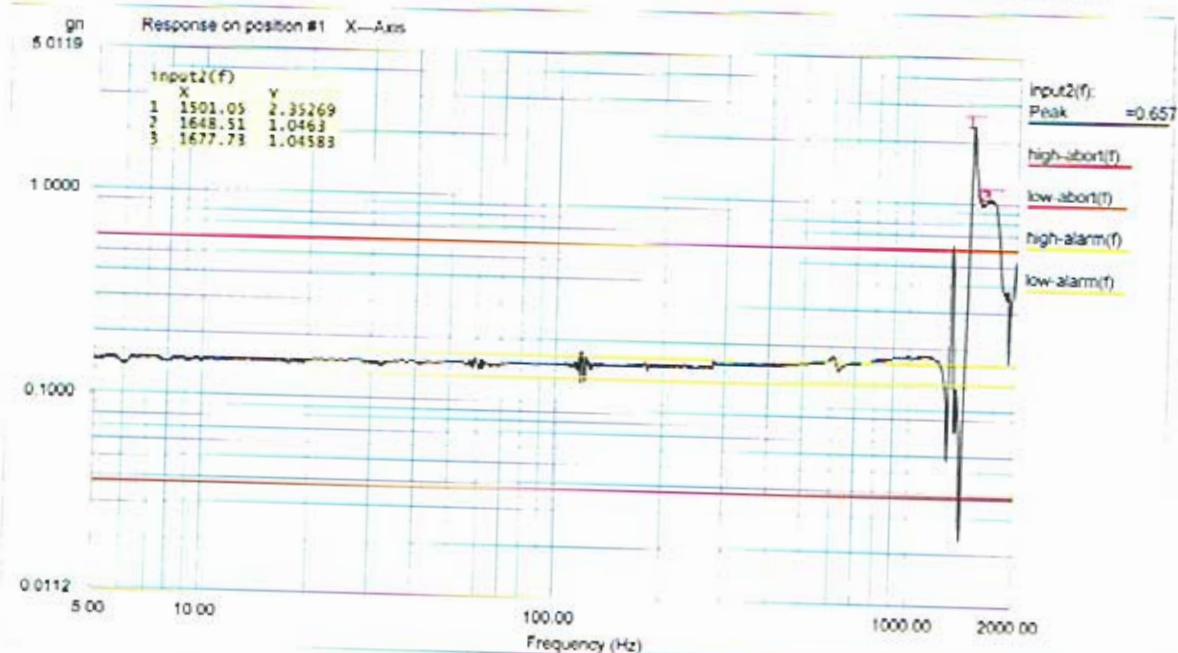
TRIAXIAL ACCELEROMETERS

3013A	DYTRAN	109	QL-0291	ch1=10.6 ch2=10.19 ch3=10.52	02-16-00	03-09-05	03-09-05	1000	500	in service	58
3093M6	DYTRAN	382	QL-0689	ch1=53.18 ch2=51.35 ch3=52.45		03/09/05	03-09-06	1000	500		
3093M3	DYTRAN	383	QL-0690	ch1=51.56 ch2=52.40 ch3=54.39		2005-12-2	2006-12-2	1000	100	in service	59
						2005-12-2	2006-12-2	1000	100		
						2005-12-2	2006-12-2	1000	100		
						2005-12-2	2006-12-2	2000	100	in service	60
						2005-12-2	2006-12-2	2000	100		
						2005-12-2	2006-12-2	2000	100		
						#####	#####				



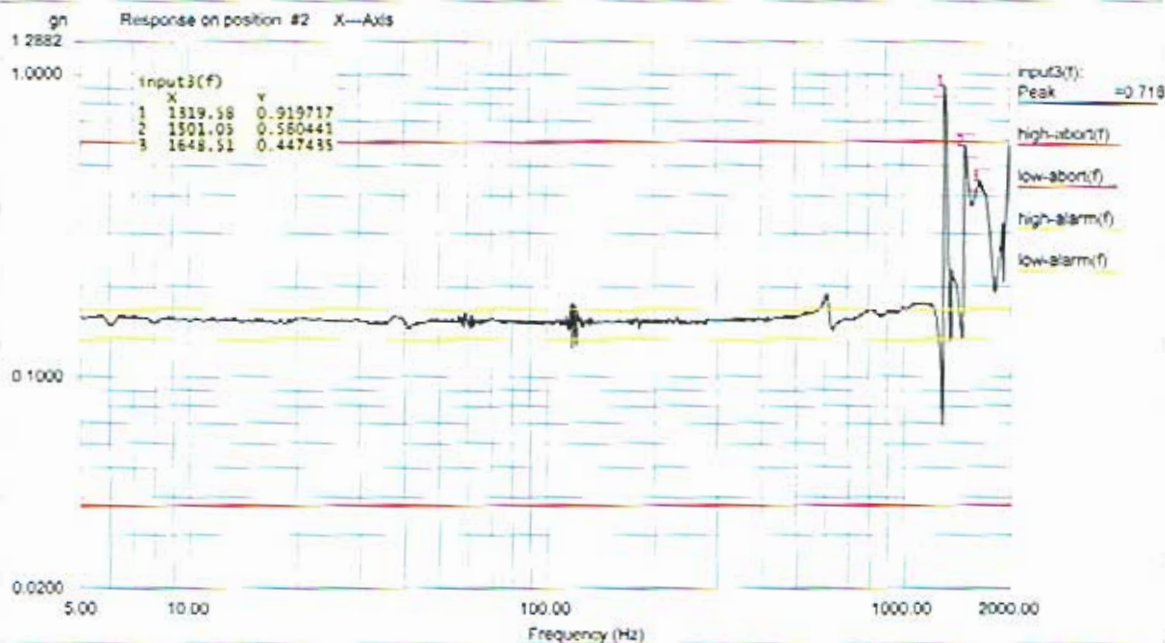
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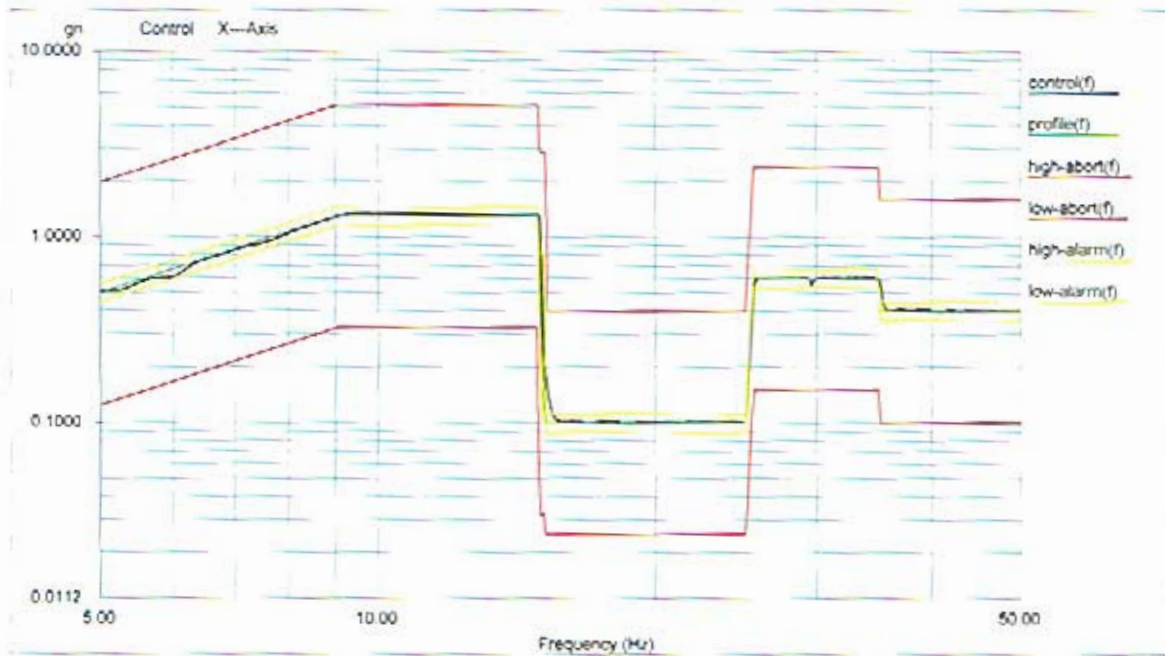
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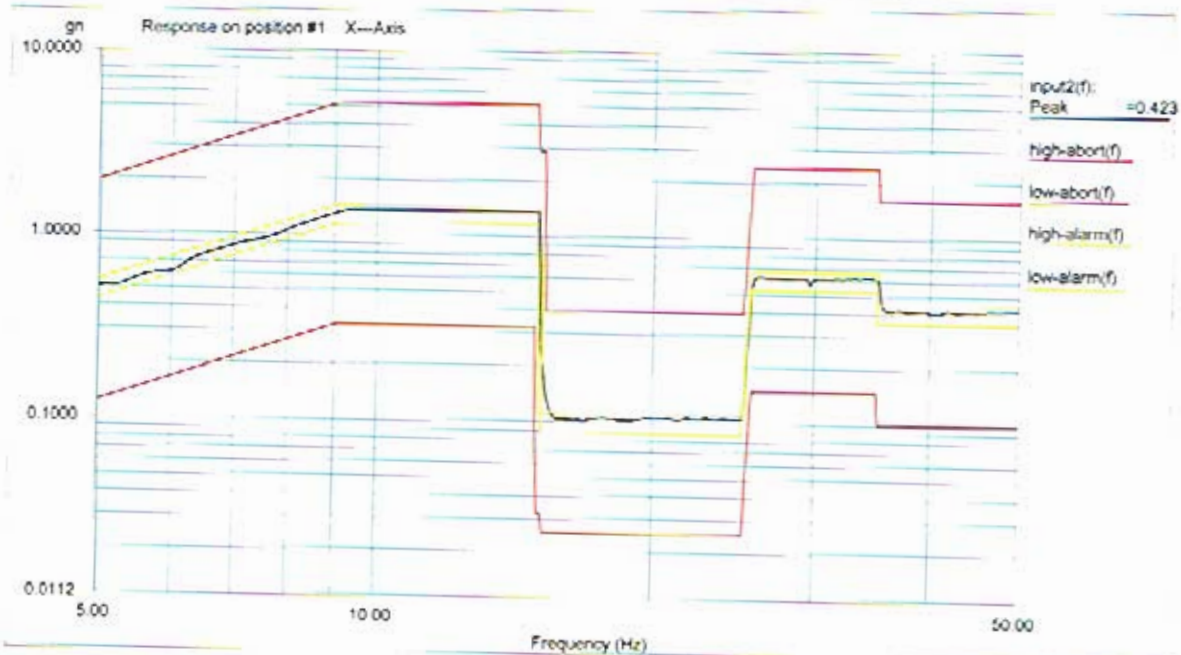
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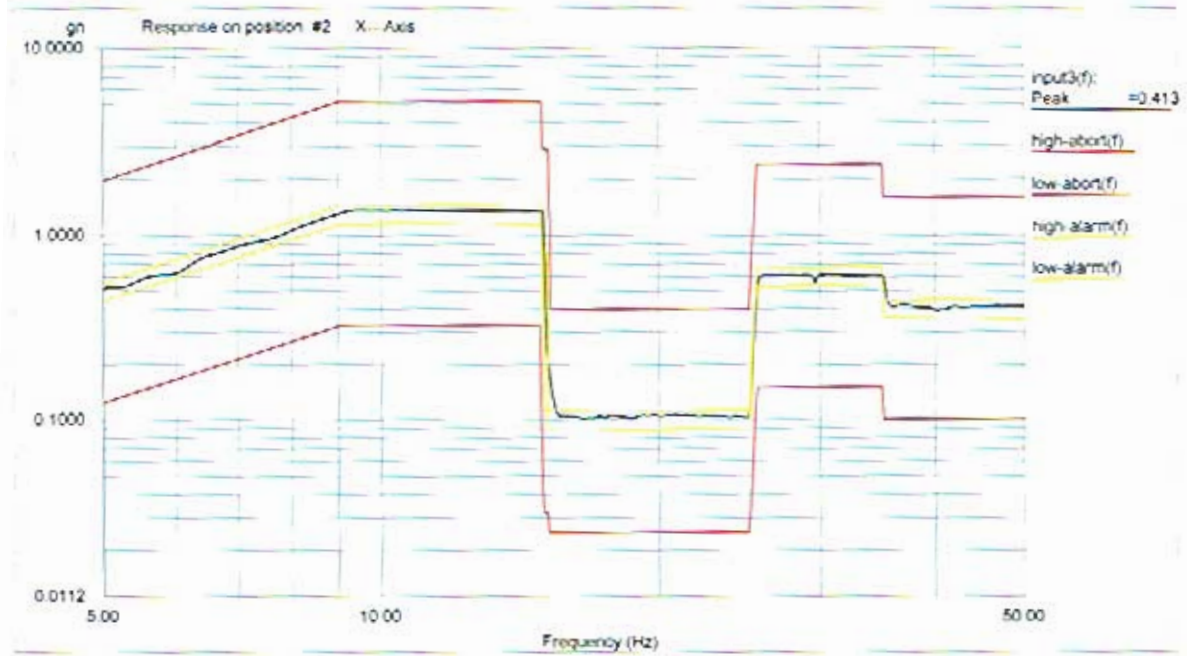
Level: 100 % Control Peak: 0.402865 gn Full Level Time: 00:01:02 Sweep Type: Logarithmic
 Frequency: 49.975610 Hz Demand Peak: 0.400000 gn Time Remaining: 00:00:00 Sweep Rate: 4 Oct/Min

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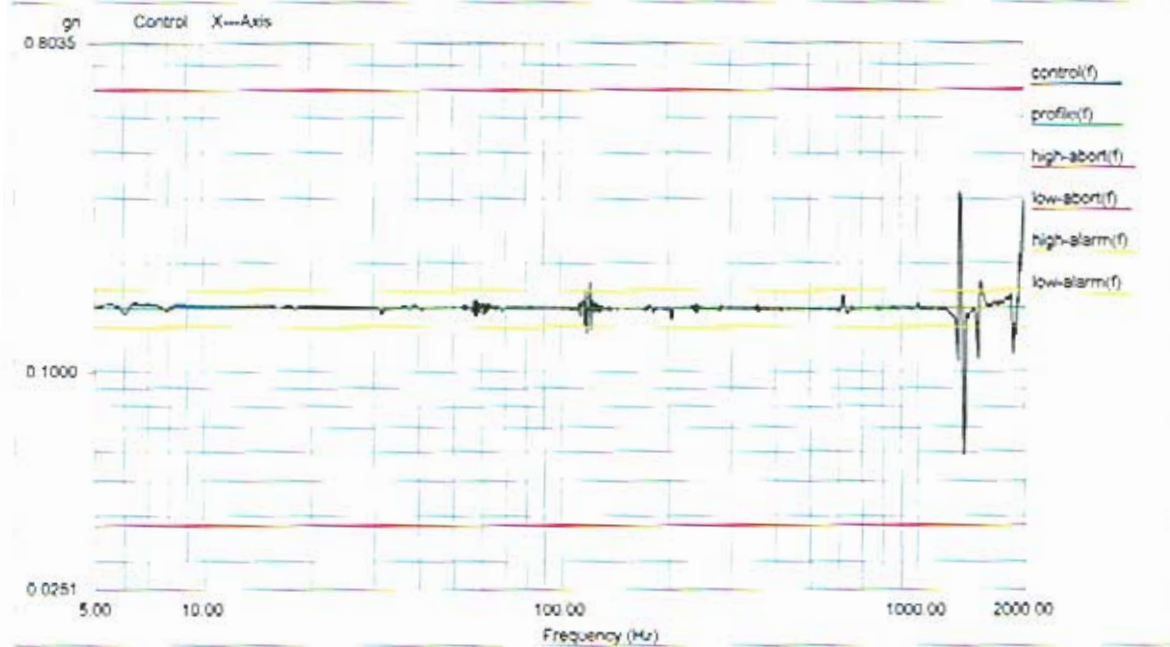


Level: 100 % Control Peak: 0.402865 gn Full Level Time: 00:01:02 Sweep Type: Logarithmic
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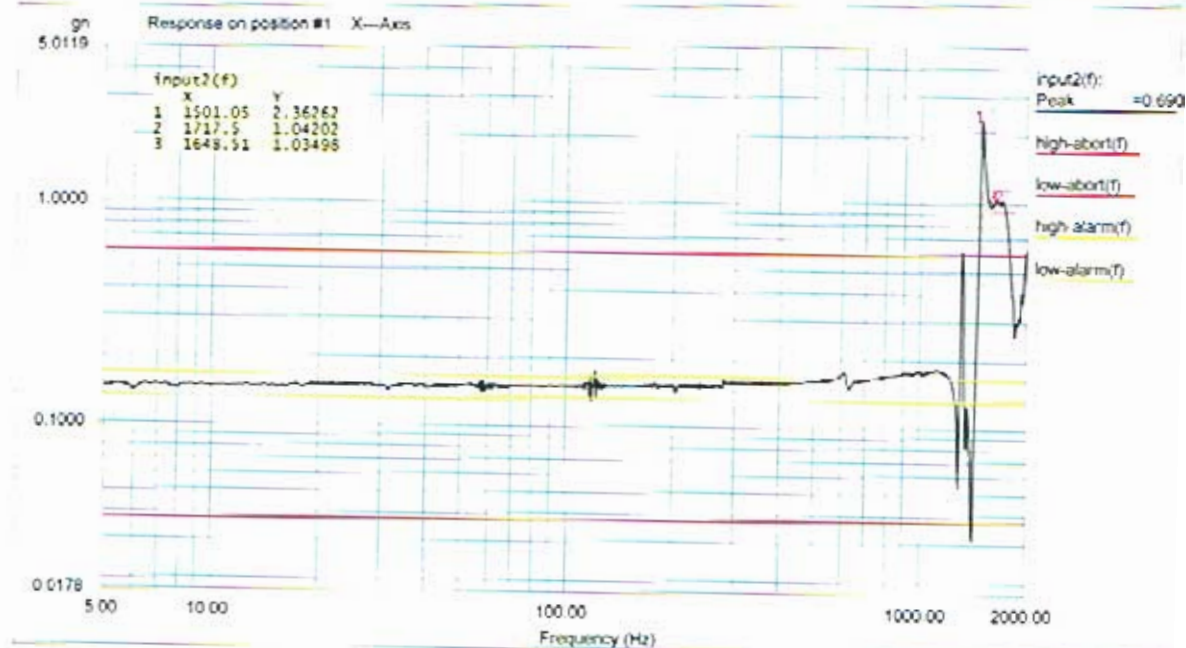


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Frequency:	49.979610 Hz	Demand Peak:	0.400000 gn	Time Remaining:	00:00:00	Sweep Rate:	4 Oct/Min



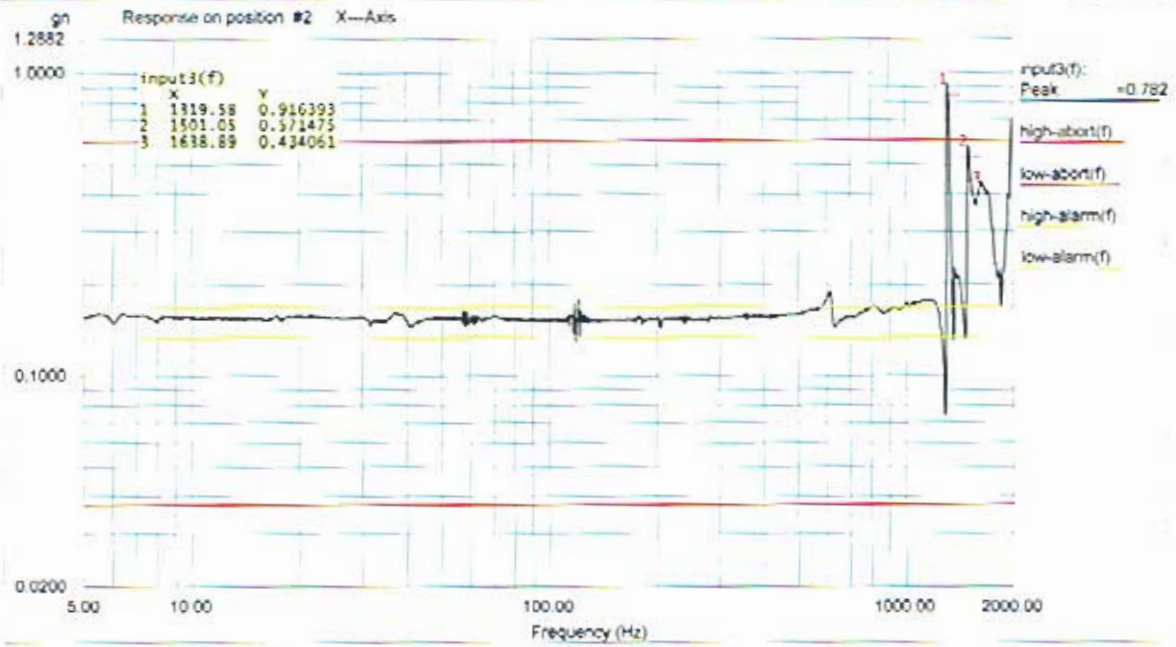
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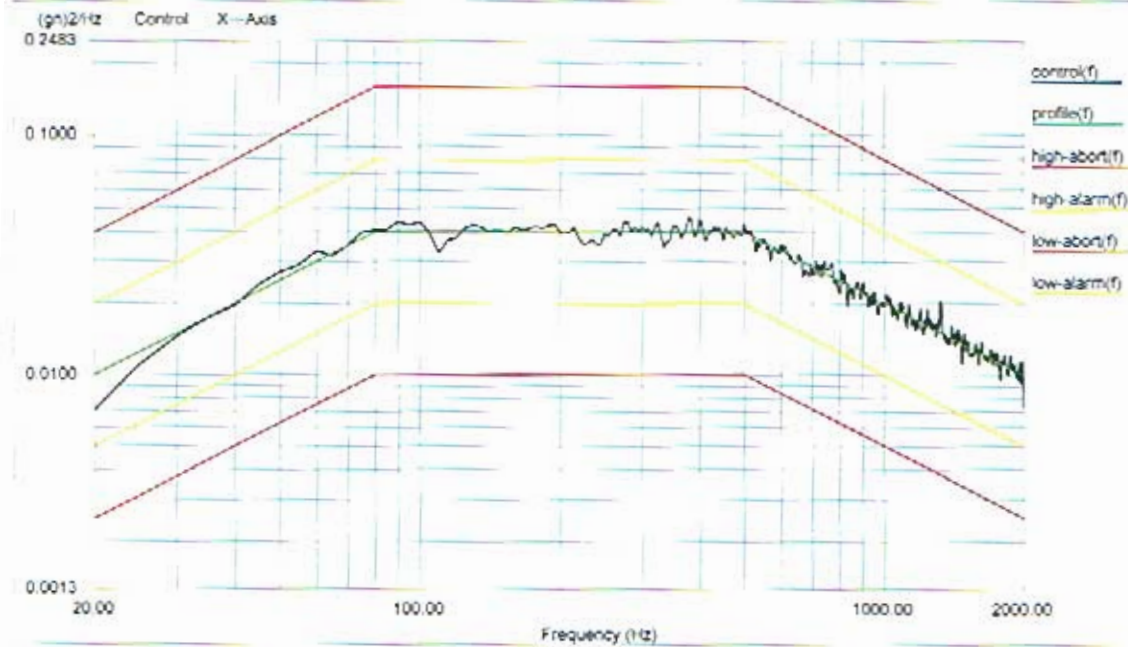
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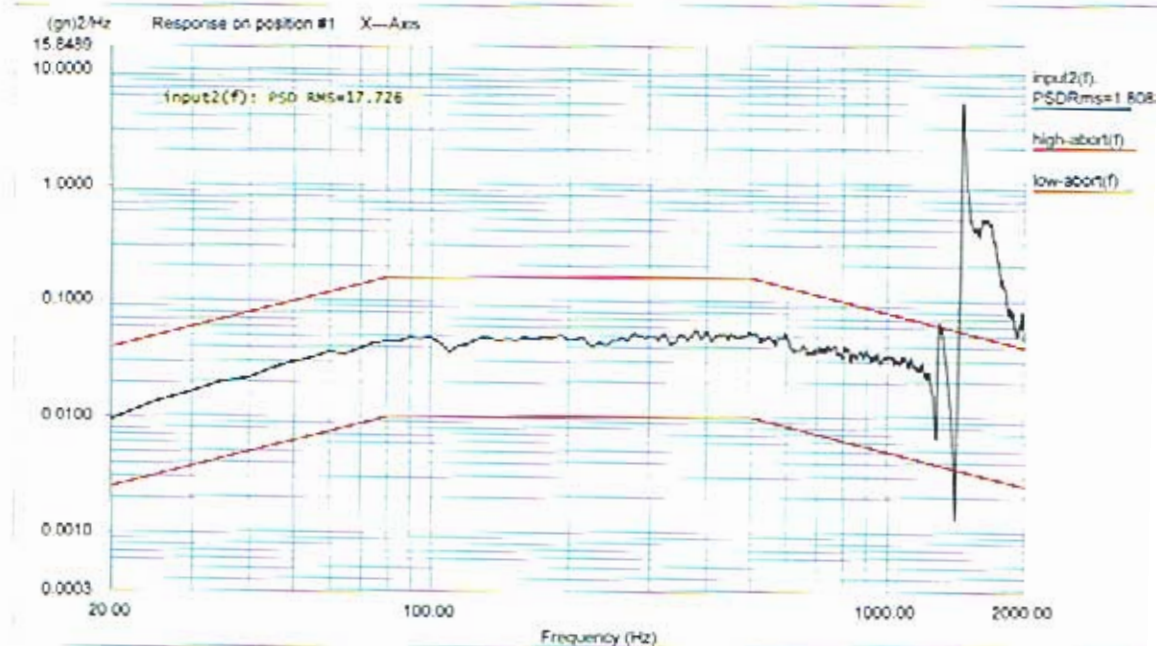
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Data saved at 11:53:19 AM, Tuesday, January 24, 2006 Report created at 11:53:20 AM, Tuesday, January 24, 2006



Level: 100 %
Control RMS: 6.801618 gn Full Level Elapsed Time: 00:01:00 Lines: 400 Frame Time: 0.200000 Seconds
Demand RMS: 6.785996 gn Remaining Time: 00:00:00 DOF: 154 dF: 5.000000 Hz

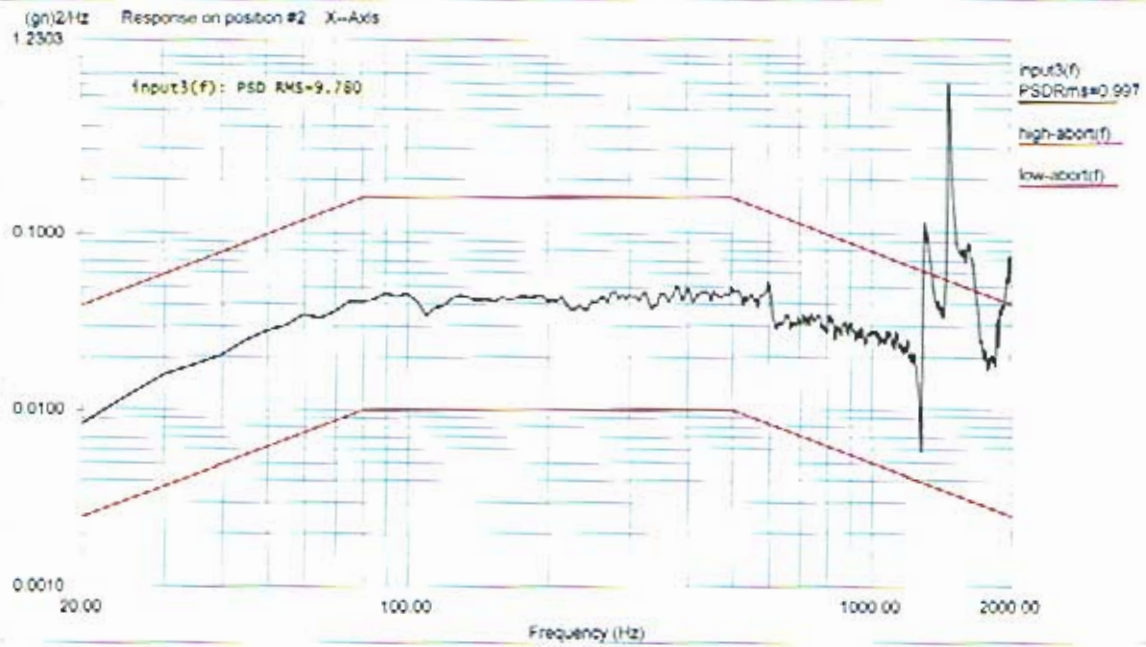
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Level: 100 %
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Demand RMS: 6.785996 gn Remaining Time: 00:00:00 DOF: 154 dF: 5.000000 Hz

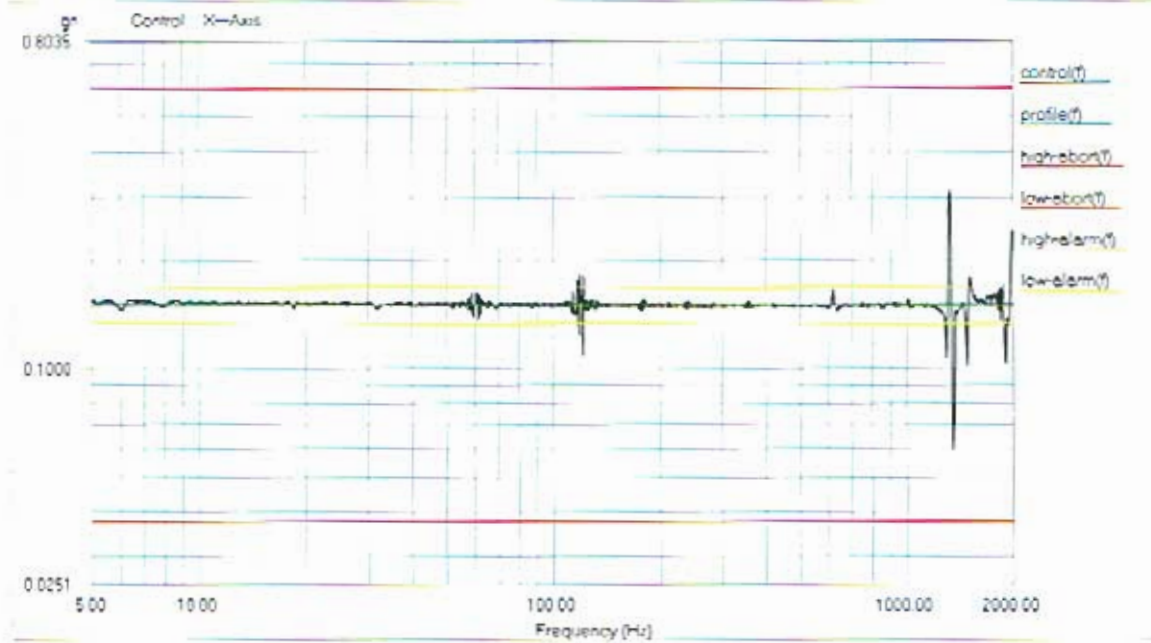
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QUANTA LABS. QL-06-071
 Stanford Linear Accelerator Model HCB S.N. GLAT2438 X-AXIS RANDOM TEST
 Project File Name: 20-2000Hz 6.8 g rms pj
 Profile Name: 20-2000Hz @ 6.8 G rms Test Type: Random Run Folder: RunDefault Jan 24, 2006 11:55:15



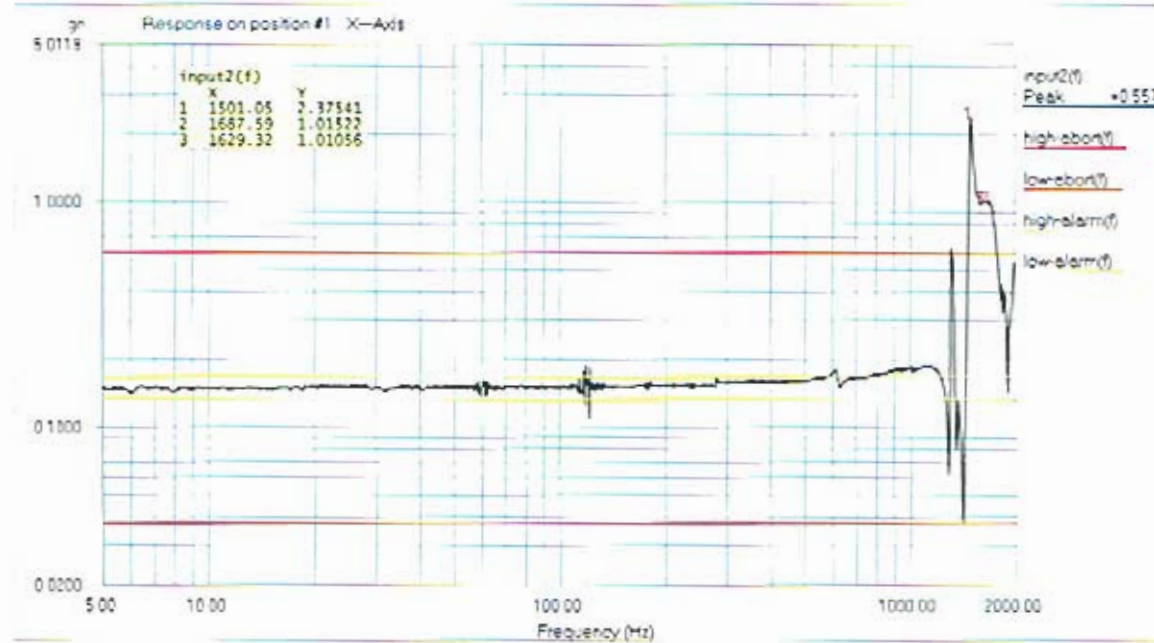
Level: 100 %
 Control RMS: 6.801618 gn Full Level Elapsed Time: 00:01:00 Lines: 400 Frame Time: 0.200000 Seconds
 Demand RMS: 6.785996 gn Remaining Time: 00:00:00 DOF: 154 dB: 5.000000 Hz

Data saved at 11:57:17 AM, Tuesday, January 24, 2006 Report created at 11:57:17 AM, Tuesday, January 24, 2006



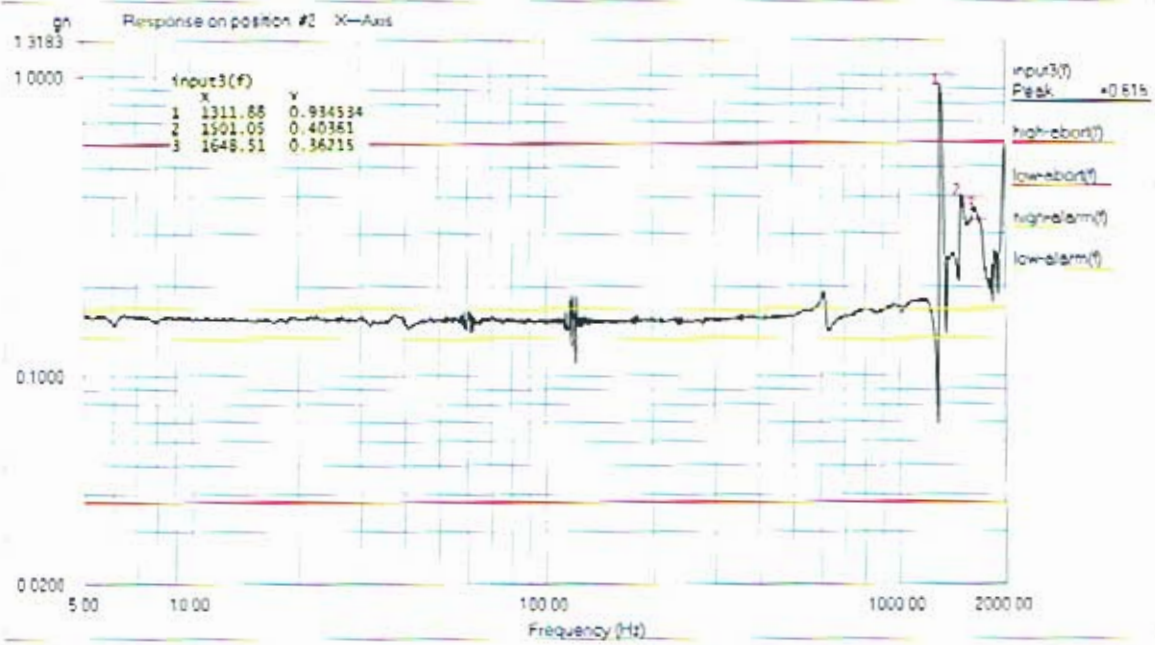
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Level: Open Loop % Control Peak: 0.236731 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 12:10:35 PM, Tuesday, January 24, 2006 Report created at 12:10:45 PM, Tuesday, January 24, 2006



Level: Open Loop % Control Peak: 0.236731 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.66967 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

QL-06-071

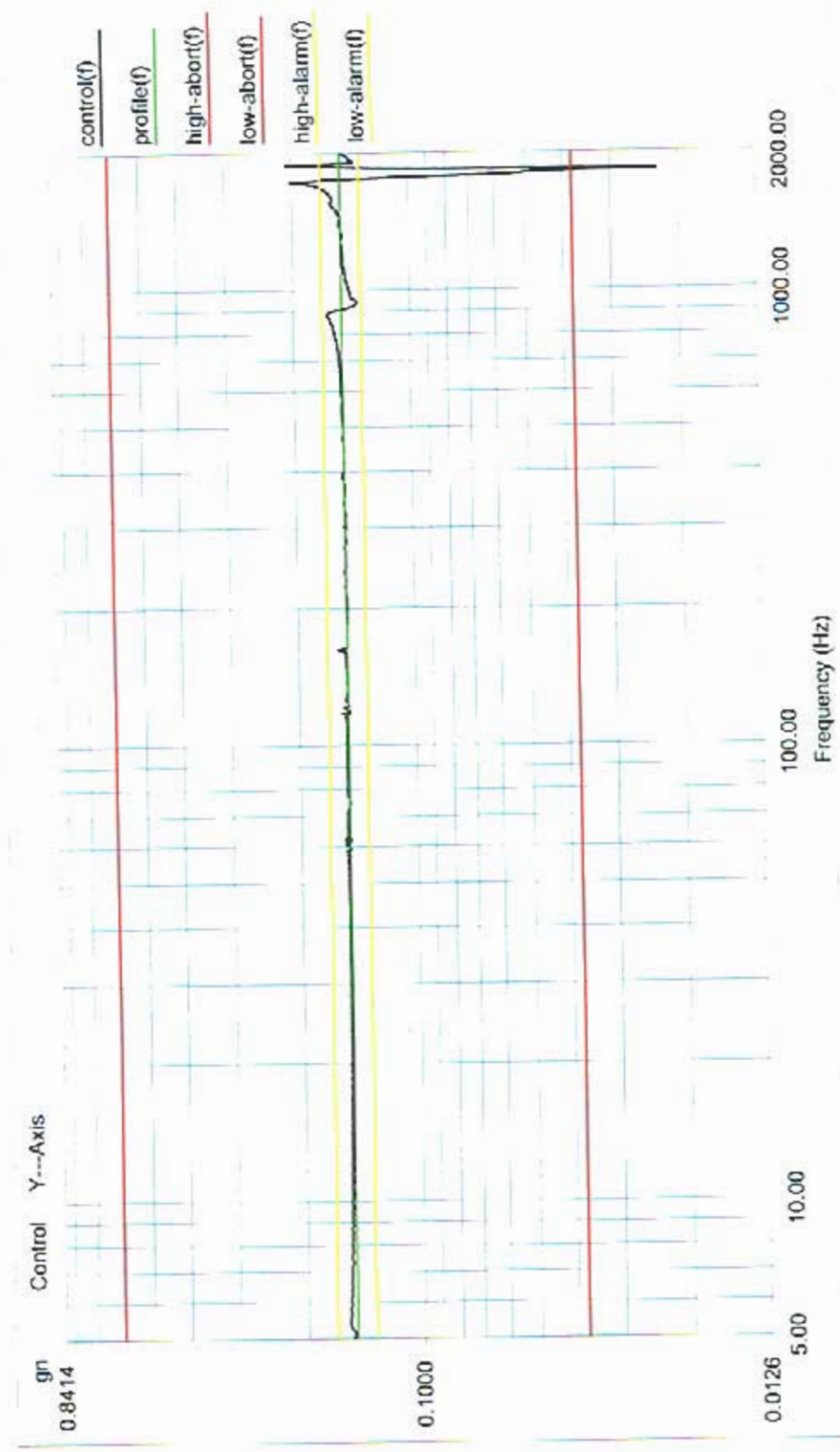
QUNANT LABS.
STANFORD LINEAR ACCELERATOR MODEL: FIX.

Project File Name: 5-2000Hz @ 0.15G.pjg

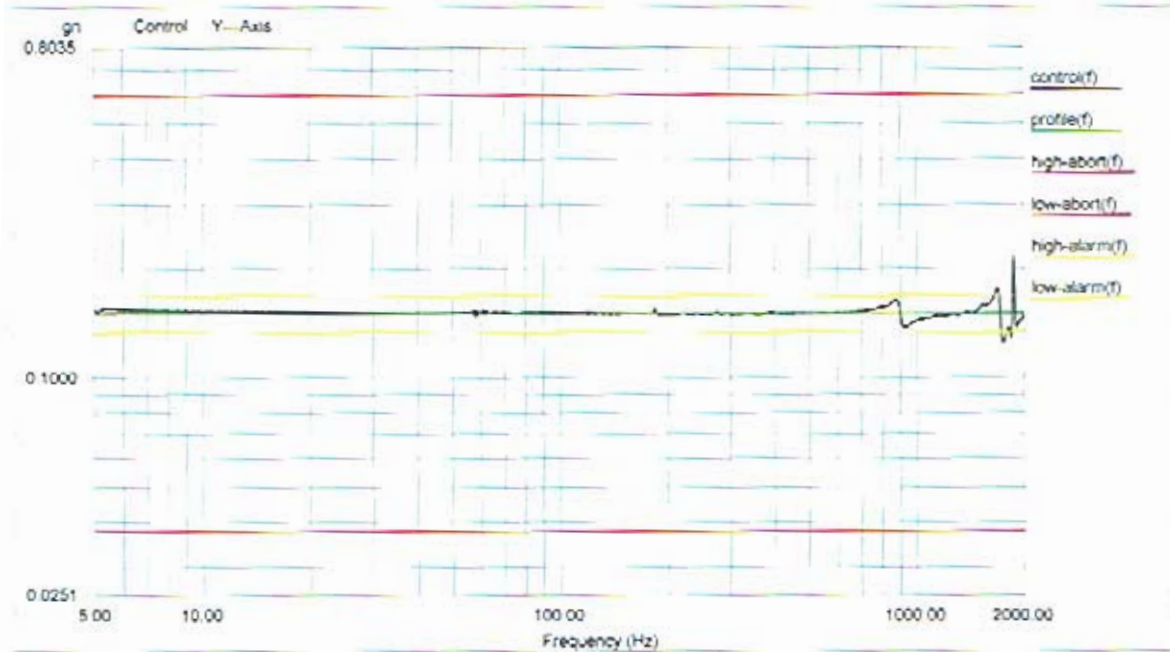
Profile Name: 5-2000Hz @ 0.15G

Test Type: Swept Sine

Run Folder: .\RunDefault Jan 24, 2006 09:33:53

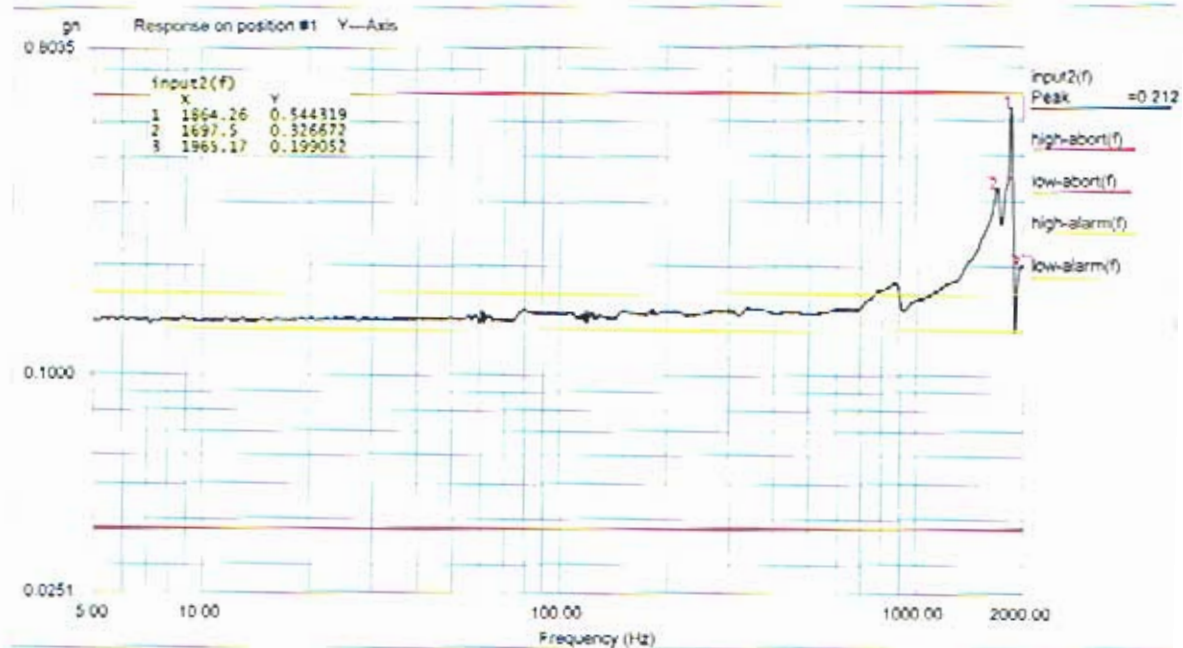


Level: 100 % Control Peak: 0.149558 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min



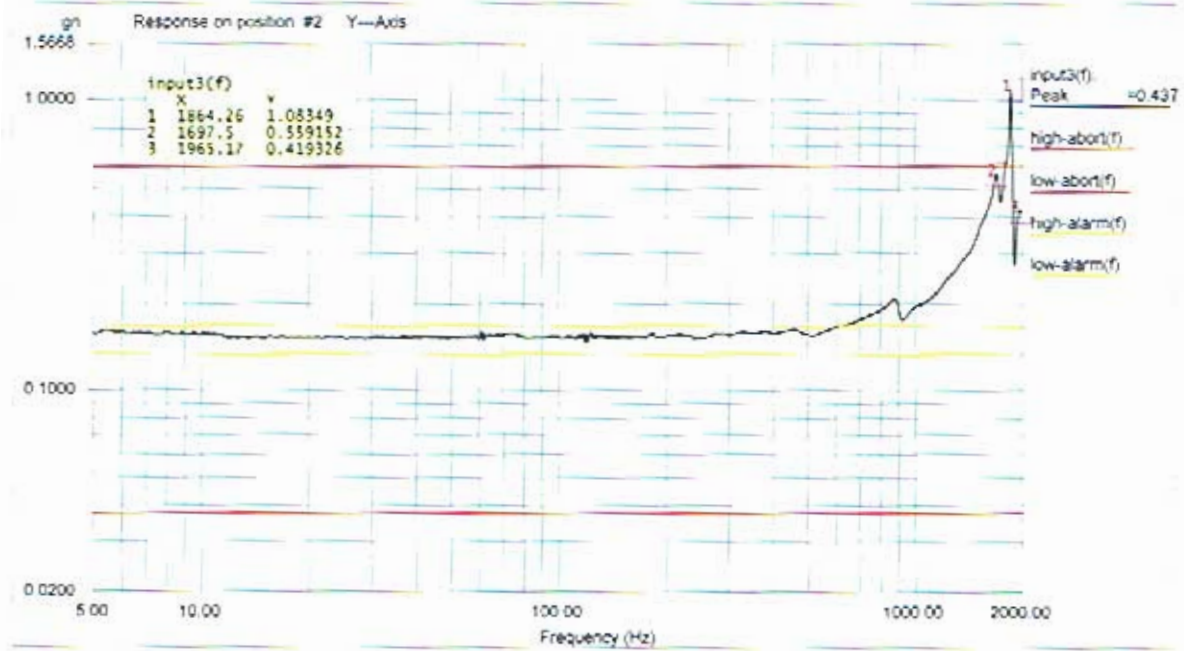
Level: 100 % Control Peak: 0.148722 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
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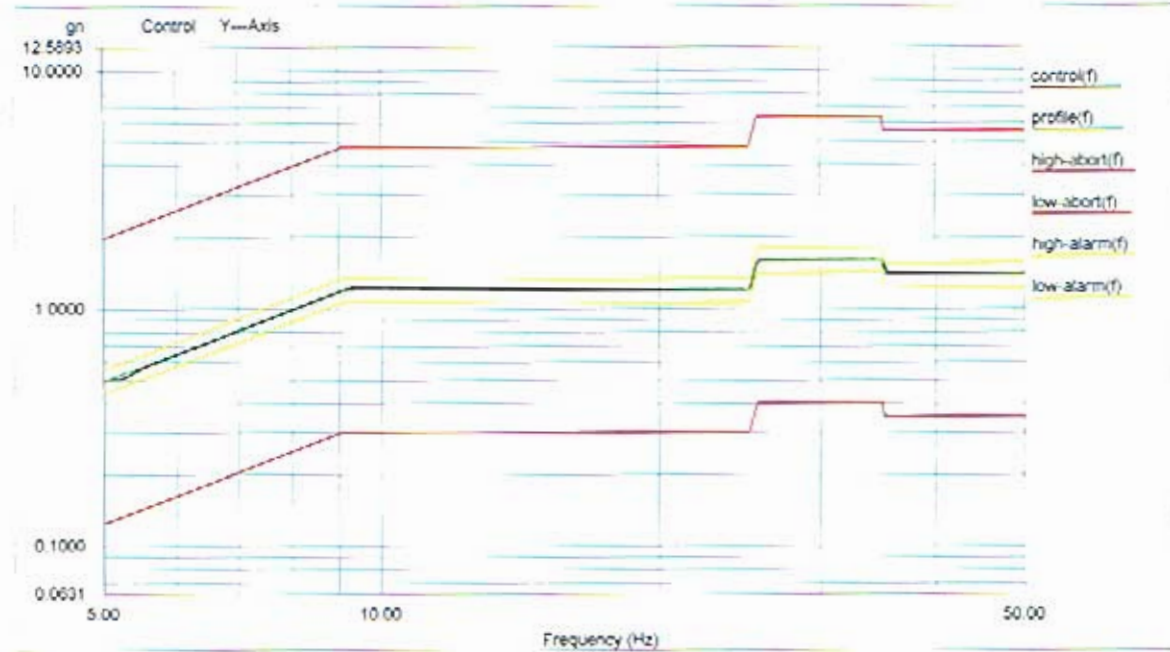


Level: 100 % Control Peak: 0.148722 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 10:00:11 AM, Tuesday, January 24, 2006 Report created at 10:00:12 AM, Tuesday, January 24, 2006

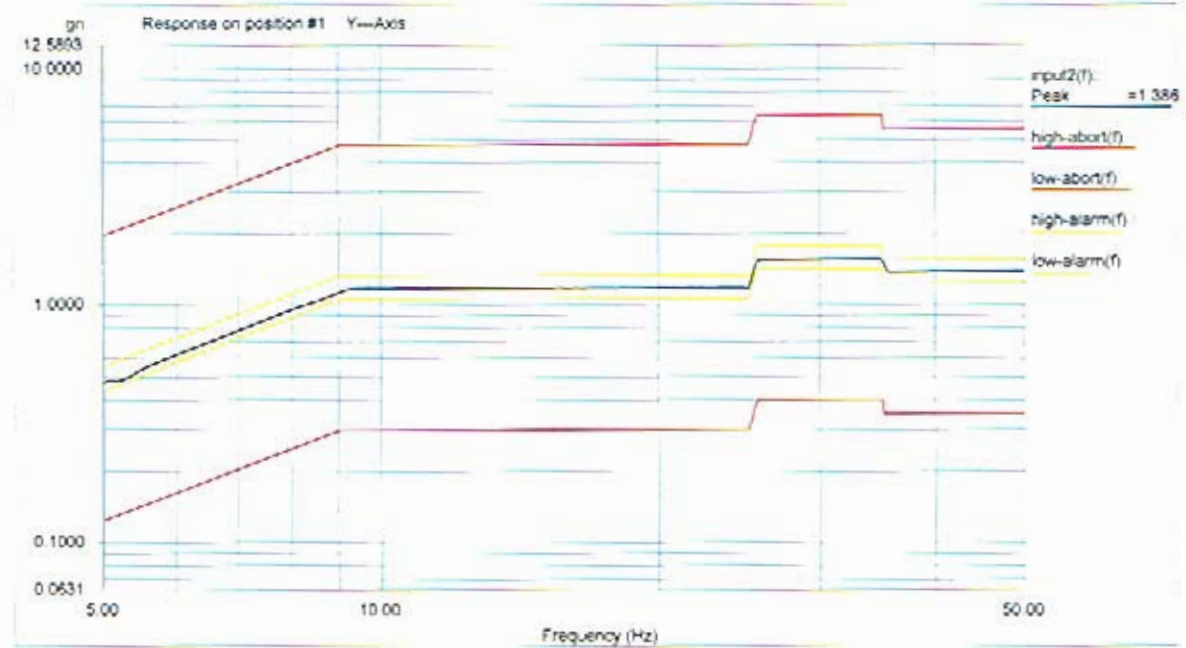


Level: 100% Control Peak: 0.148722 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min



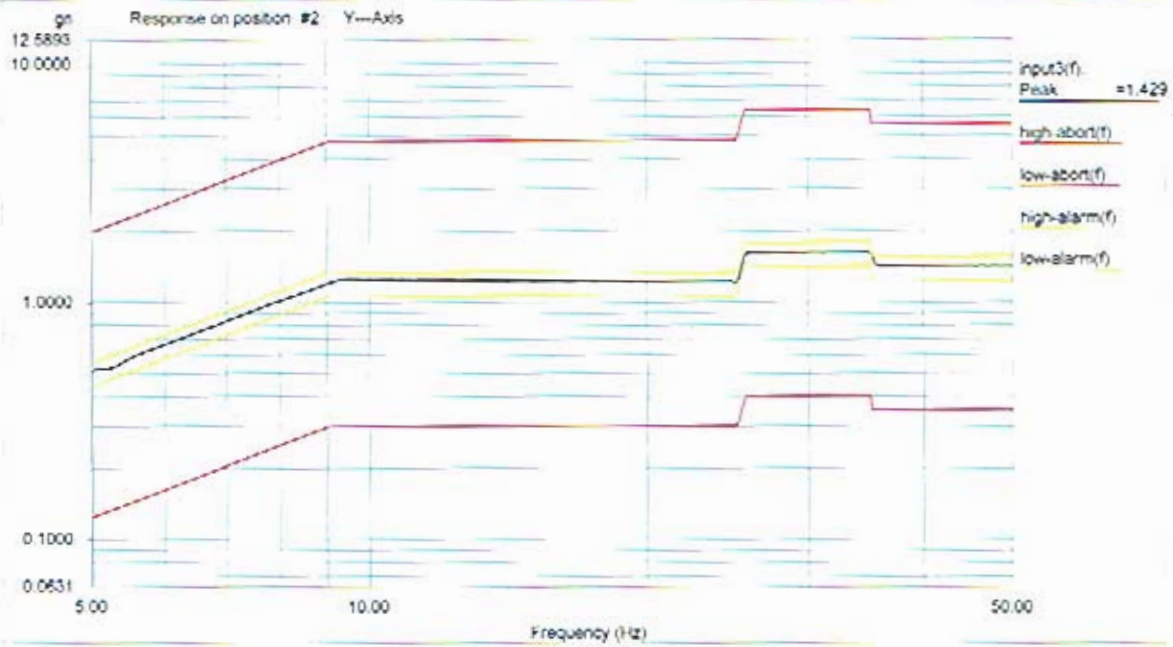
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Frequency	49.979610 Hz	Demand Peak:	1.400000 gn	Time Remaining:	00:00:00	Sweep Rate:	4 Oct/Min

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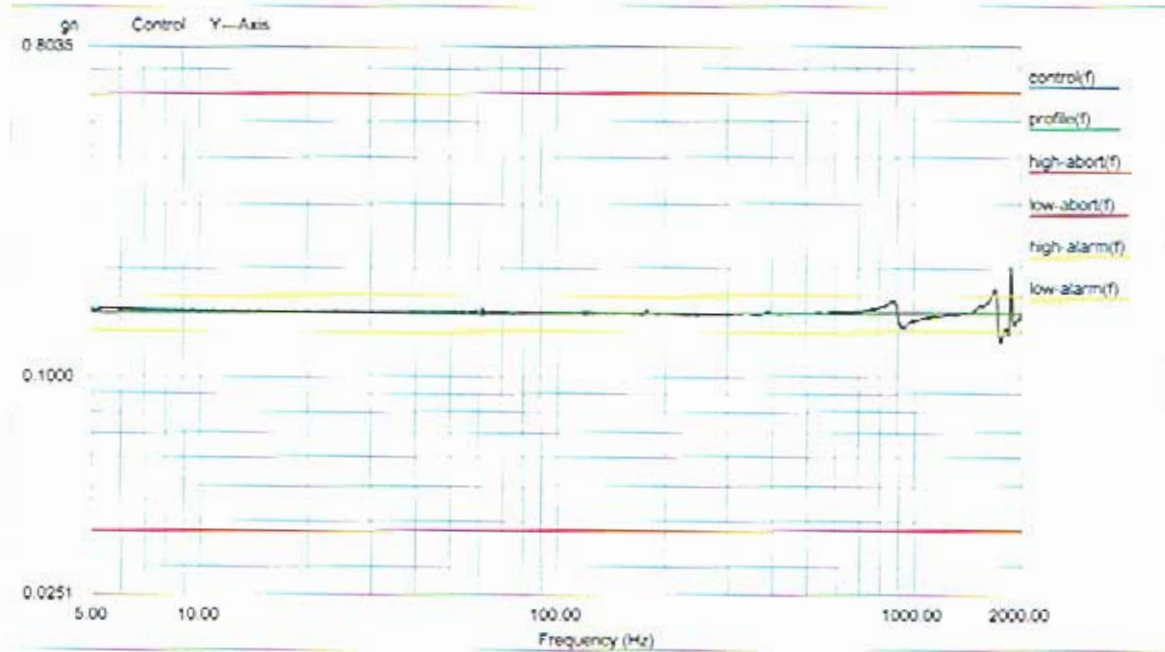
Level	100 %	Control Peak:	1.411588 gn	Full Level Time:	00:01:02	Sweep Type:	Logarithmic
Frequency	49.979610 Hz	Demand Peak:	1.400000 gn	Time Remaining:	00:00:00	Sweep Rate:	4 Oct/Min

Data saved at 10:08:28 AM, Tuesday, January 24, 2006 Report created at 10:08:29 AM, Tuesday, January 24, 2006



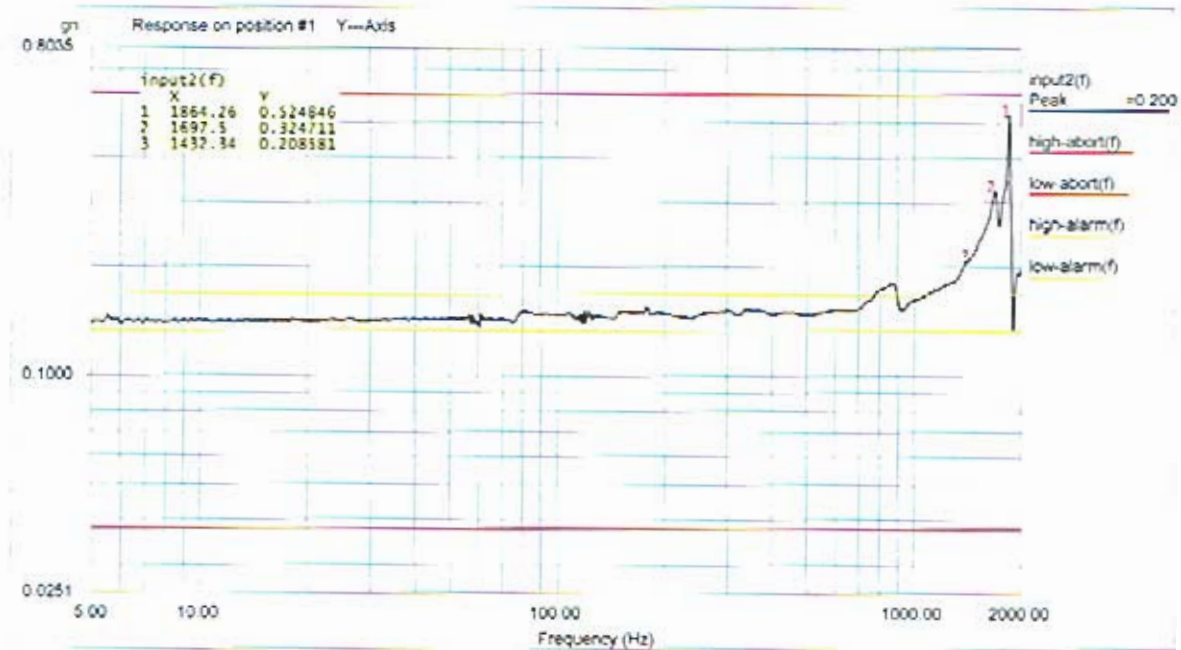
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Frequency:	49.979610 Hz	Demand Peak:	1.400000 gn	Time Remaining:	00:00:00	Sweep Rate:	4 Oct/Min

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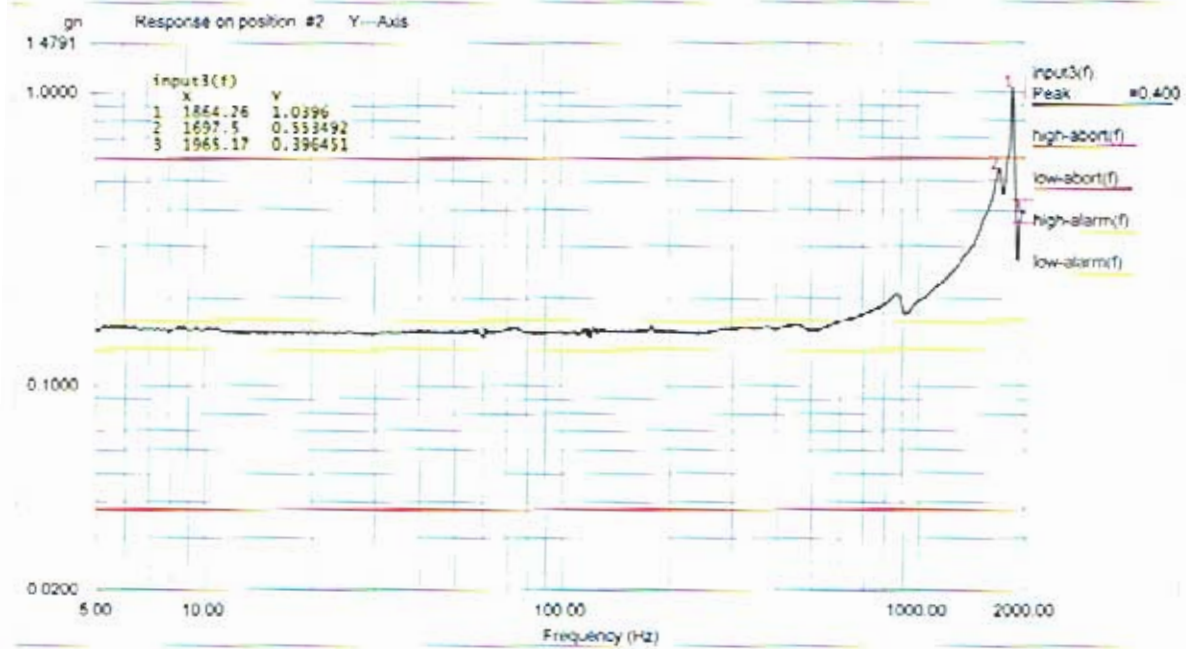
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 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 10:14:42 AM, Tuesday, January 24, 2006 Report created at 10:14:42 AM, Tuesday, January 24, 2006



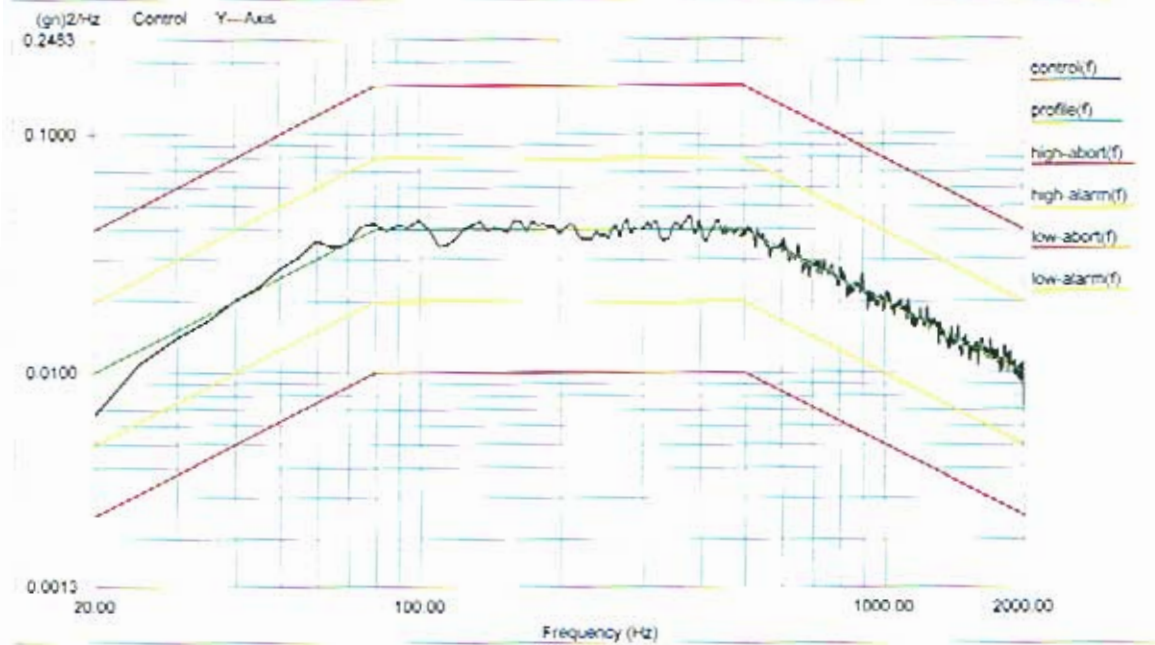
Level: 100 % Control Peak: 0.149394 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 10:14:42 AM, Tuesday, January 24, 2006 Report created at 10:14:42 AM, Tuesday, January 24, 2006



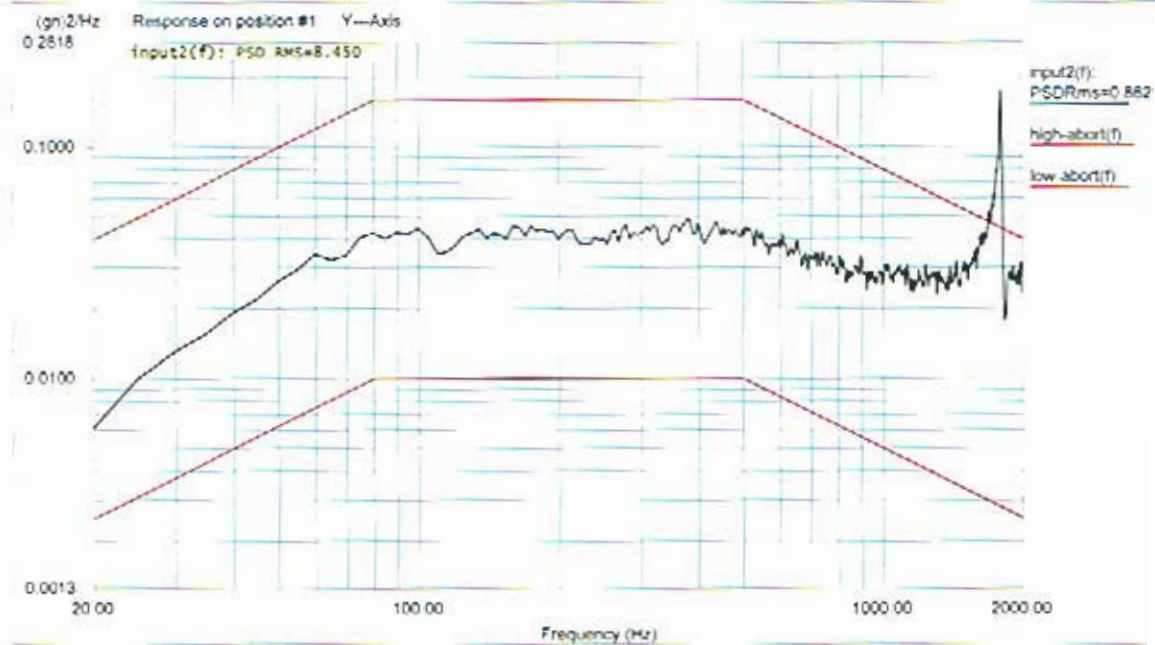
Level: 100 % Control Peak: 0.149394 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

QUANTA LABS
Stanford Linear Accelerator Model HCB S/N: GLAT2138 RANDOM TEST
Project File Name: 20-2000Hz 6.8 g rms pj
Profile Name: 20-2000Hz @ 6.8 G rms Test Type: Random Run Folder: RunDefault Jan 24, 2006 10-17-44

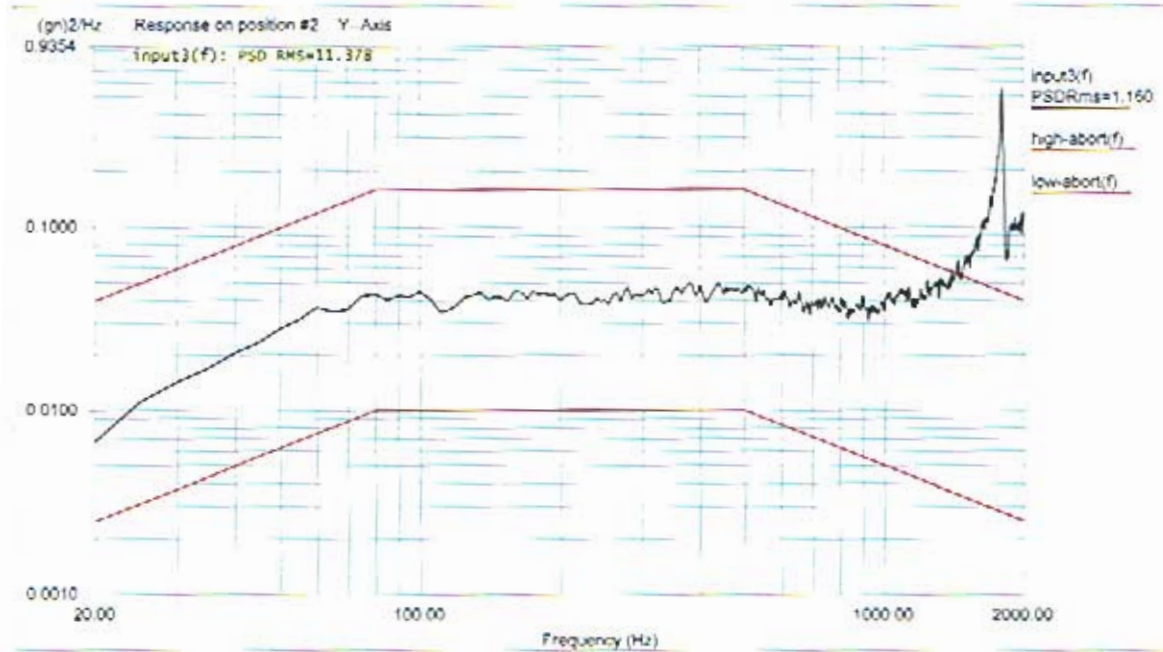


Level: 100 %
Control RMS: 6.797682 gn Full Level Elapsed Time: 00:01:00 Lines: 400 Frame Time: 0.200000 Seconds
Demand RMS: 6.785996 gn Remaining Time: 00:00:00 DOF: 154 dF: 5.000000 Hz
Data saved at 10:19:49 AM, Tuesday, January 24, 2006 Report created at 10:19:50 AM, Tuesday, January 24, 2006

QUANTA LABS
Stanford Linear Accelerator Model HCB S/N: GLAT2138 RANDOM TEST
Project File Name: 20-2000Hz 6.8 g rms pj
Profile Name: 20-2000Hz @ 6.8 G rms Test Type: Random Run Folder: RunDefault Jan 24, 2006 10-17-44

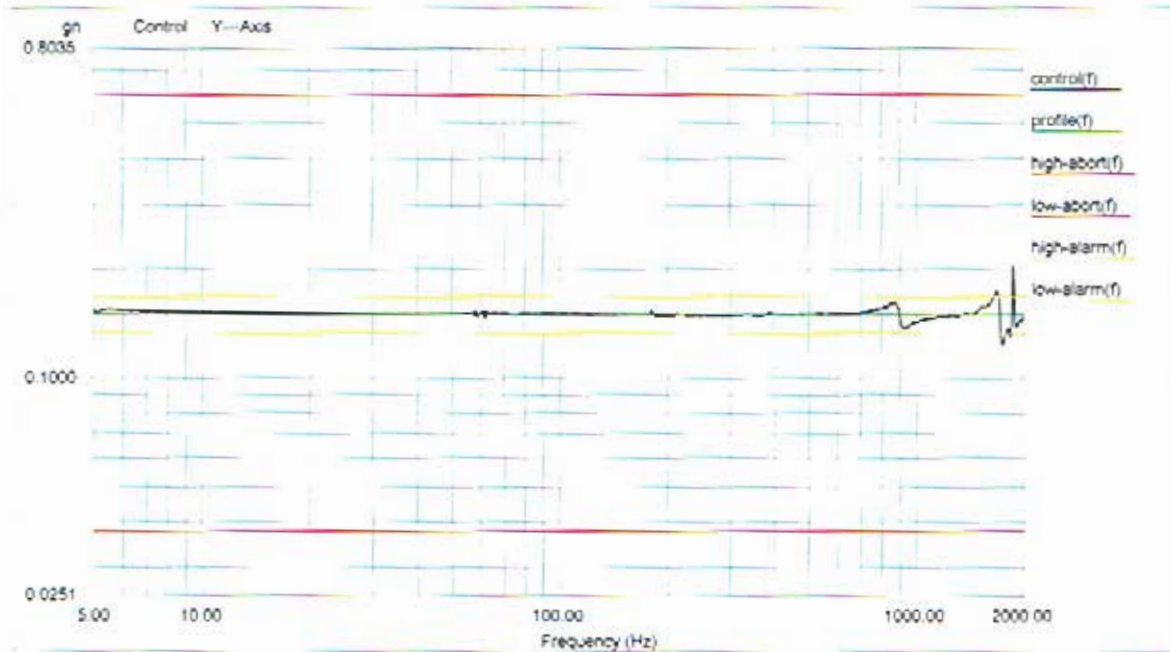


Level: 100 %
Control RMS: 6.797682 gn Full Level Elapsed Time: 00:01:00 Lines: 400 Frame Time: 0.200000 Seconds
Demand RMS: 6.785996 gn Remaining Time: 00:00:00 DOF: 154 dF: 5.000000 Hz
Data saved at 10:19:49 AM, Tuesday, January 24, 2006 Report created at 10:19:50 AM, Tuesday, January 24, 2006



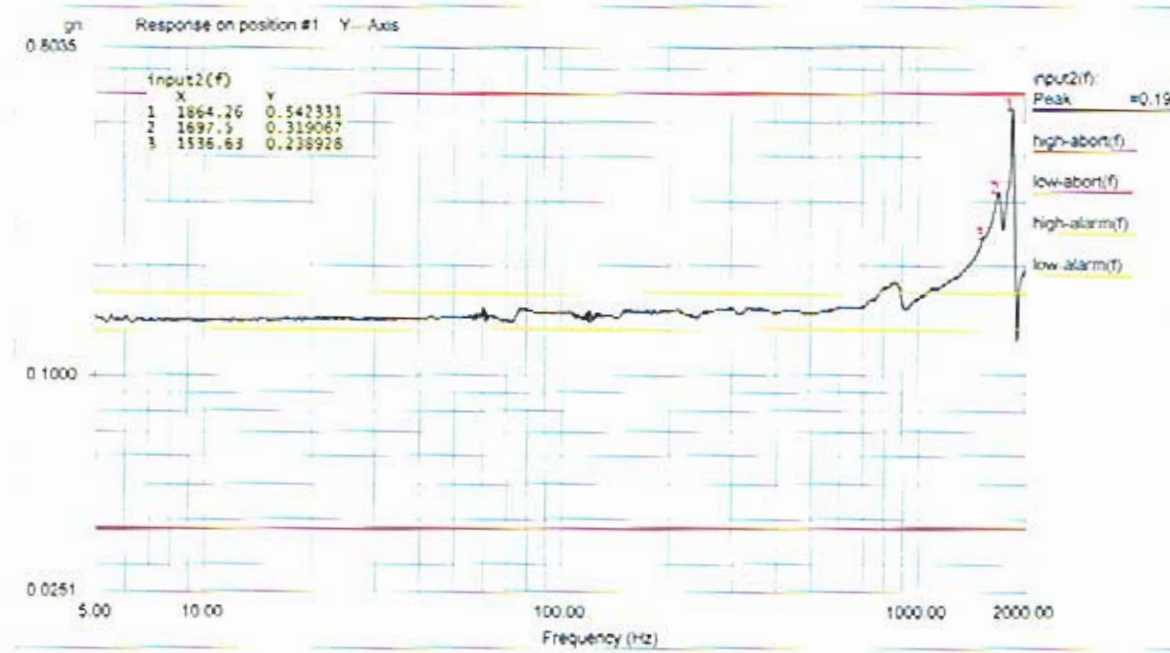
Level: 100 %
 Control RMS: 6.797682 gn Full Level Elapsed Time: 00:01:00 Lines: 400 Frame Time: 0.200000 Seconds
 Demand RMS: 6.785996 gn Remaining Time: 00:00:00 DOF: 154 dF: 5.000000 Hz

Data saved at 10:19:49 AM, Tuesday, January 24, 2006 Report created at 10:19:50 AM, Tuesday, January 24, 2006



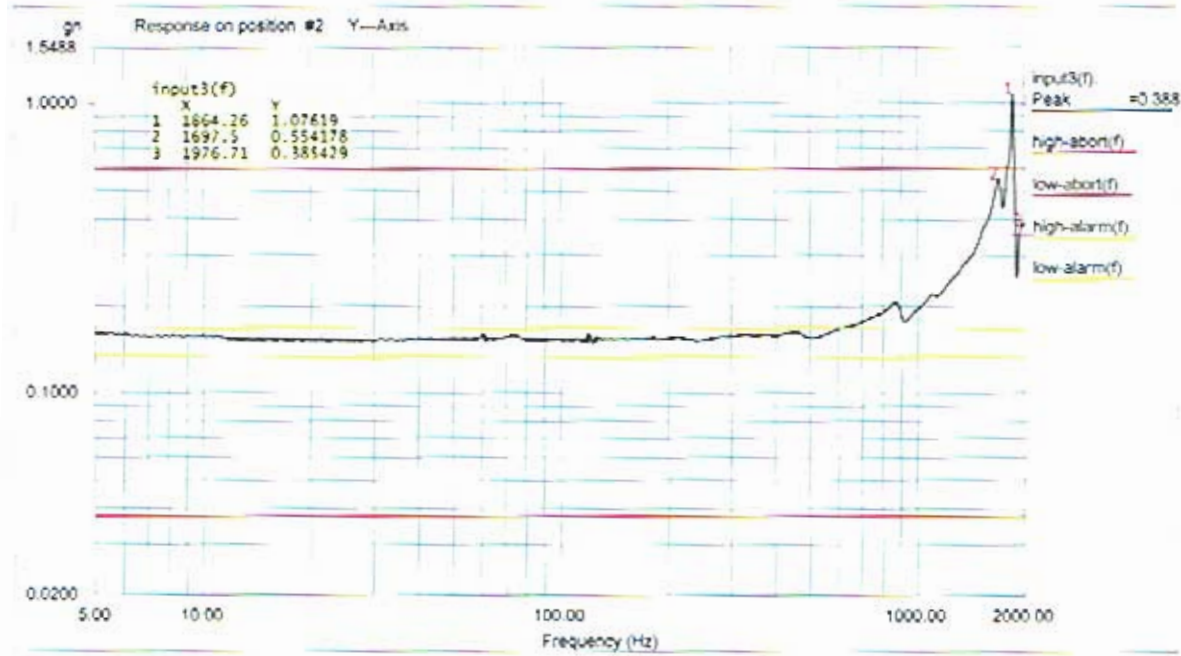
Level: 100% Control Peak: 0.148829 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 10:26:49 AM, Tuesday, January 24, 2006 Report created at 10:26:50 AM, Tuesday, January 24, 2006

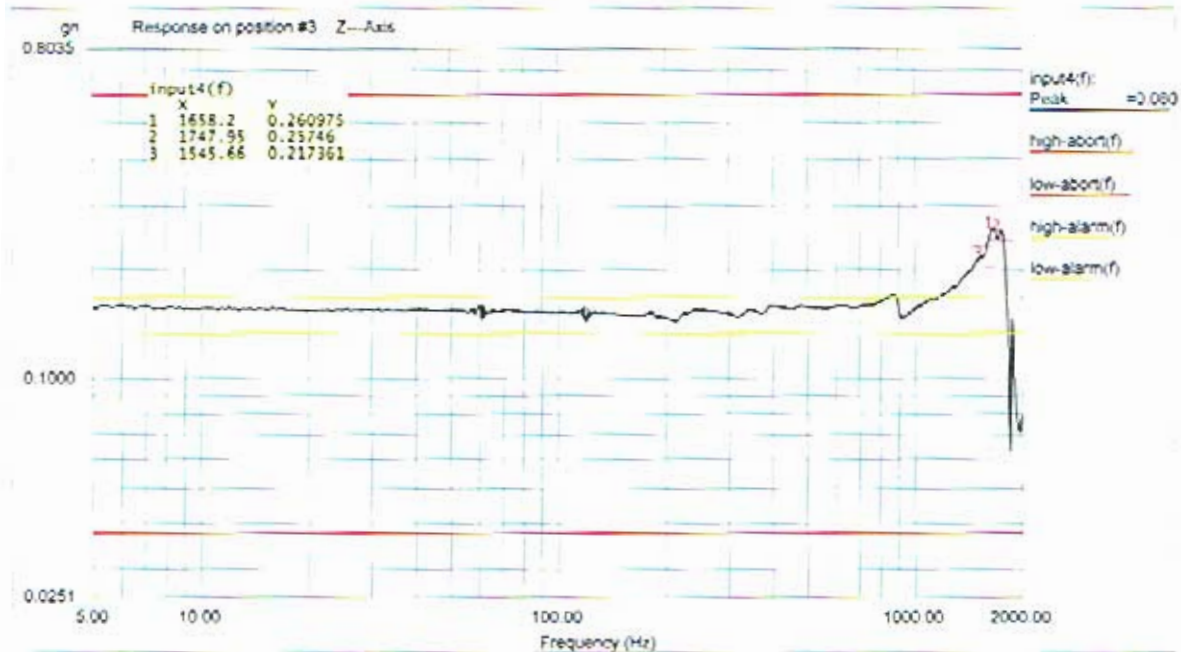


Level: 100% Control Peak: 0.148829 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 10:26:49 AM, Tuesday, January 24, 2006 Report created at 10:26:50 AM, Tuesday, January 24, 2006

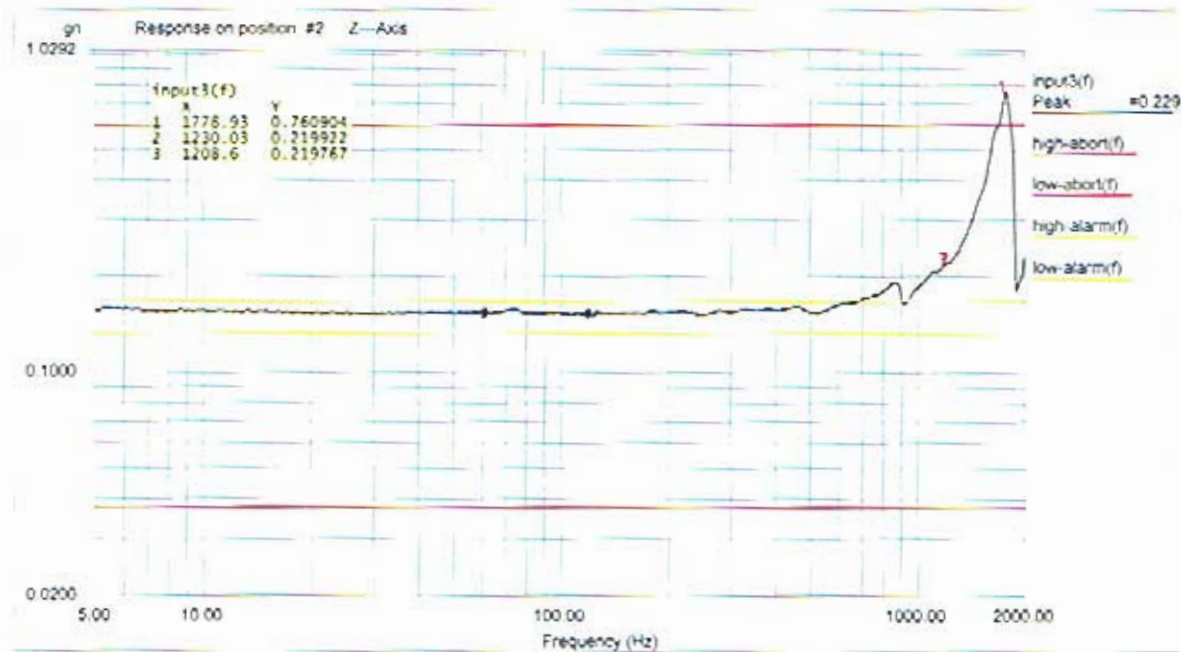


Level	100 %	Control Peak	0.148829 gn	Full Level Time	00:04:19	Sweep Type	Logarithmic
Frequency	1999.669067 Hz	Demand Peak	0.150000 gn	Time Remaining	00:00:00	Sweep Rate	2 Oct/Min



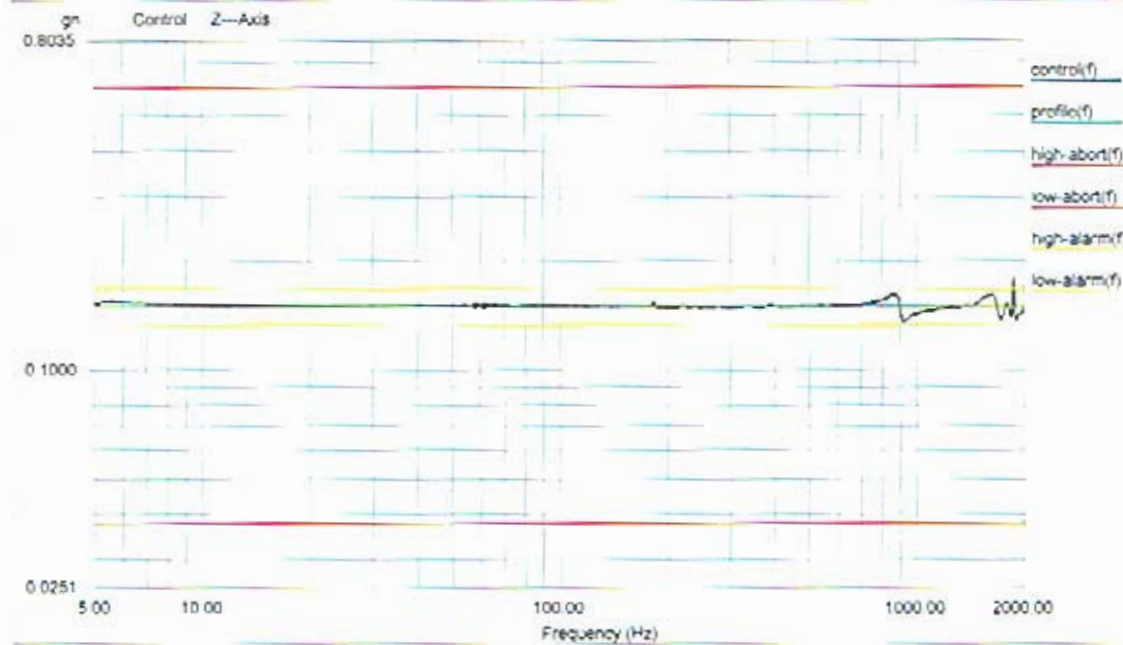
Level: 100% Control Peak: 0.148282 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 10:37:33 AM, Tuesday, January 24, 2006 Report created at 10:37:34 AM, Tuesday, January 24, 2006



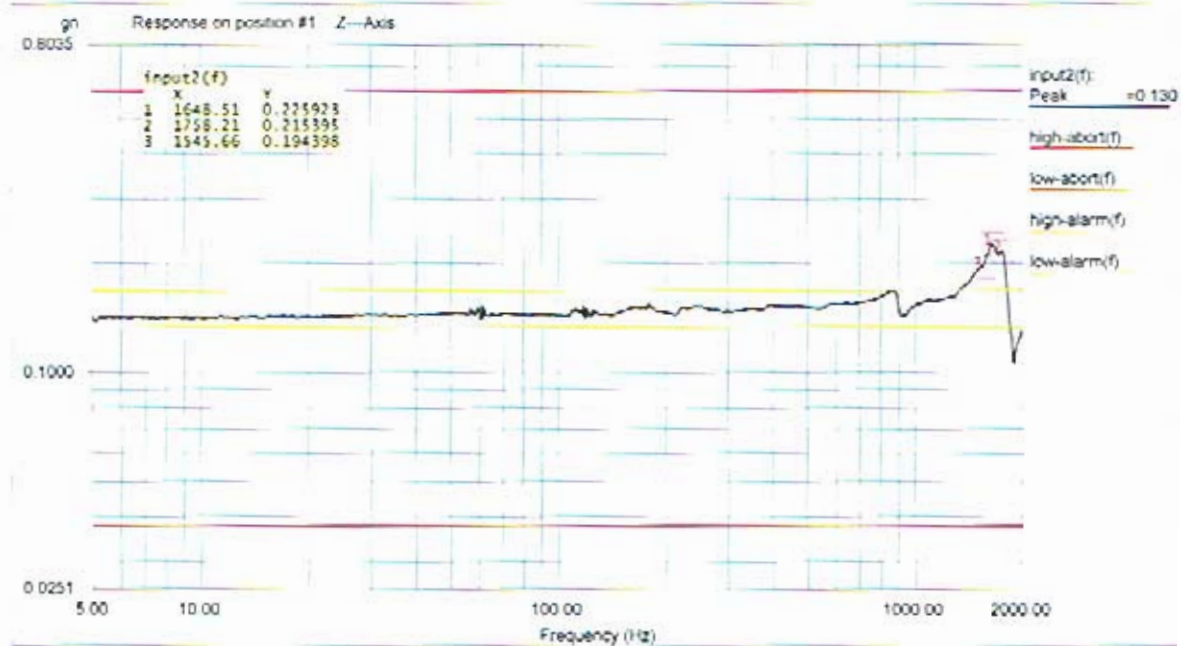
Level: 100% Control Peak: 0.148282 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 10:37:33 AM, Tuesday, January 24, 2006 Report created at 10:37:34 AM, Tuesday, January 24, 2006



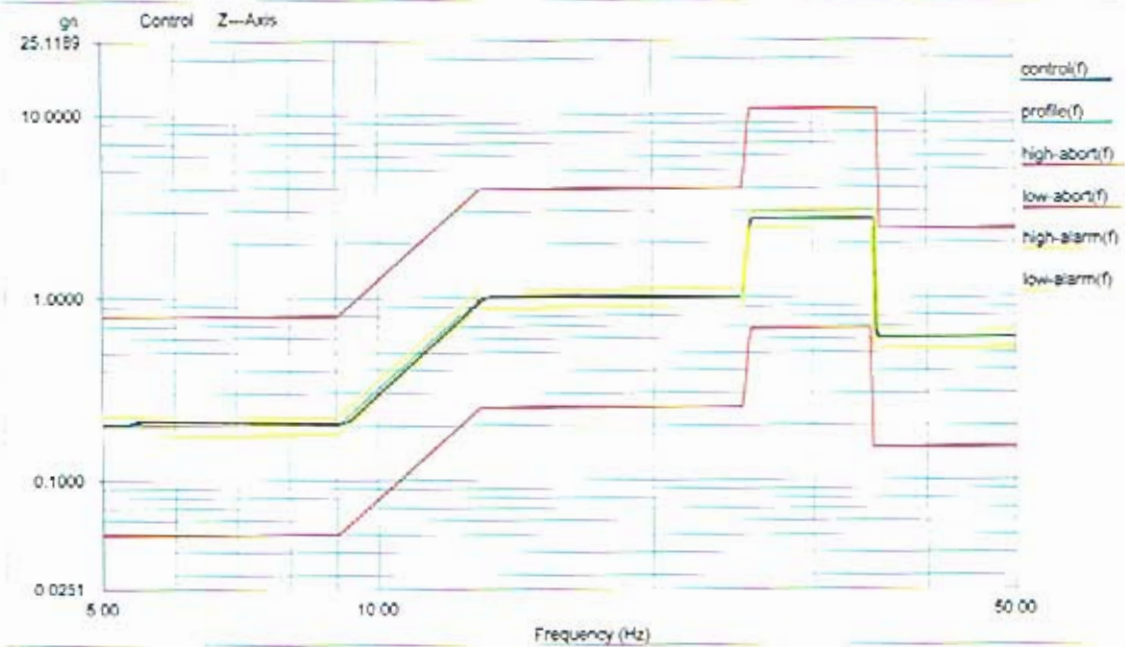
Level: 100 % Control Peak: 0.148282 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 10:37:33 AM, Tuesday, January 24, 2006 Report created at 10:37:34 AM, Tuesday, January 24, 2006



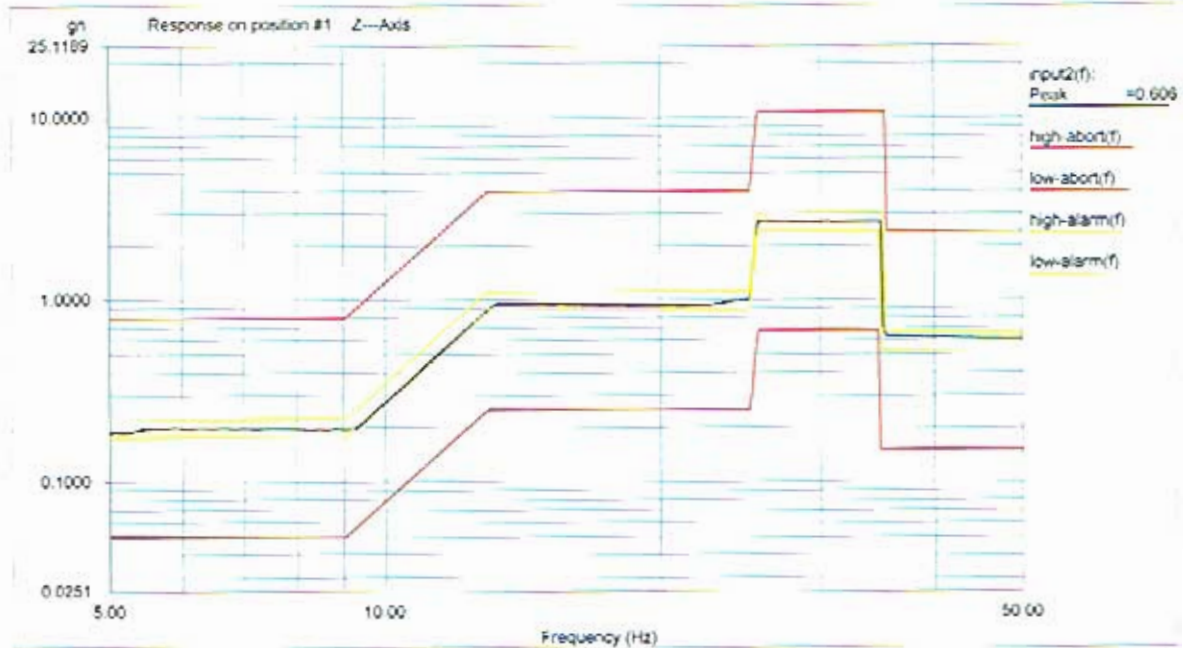
Level: 100 % Control Peak: 0.148282 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 10:37:33 AM, Tuesday, January 24, 2006 Report created at 10:37:34 AM, Tuesday, January 24, 2006



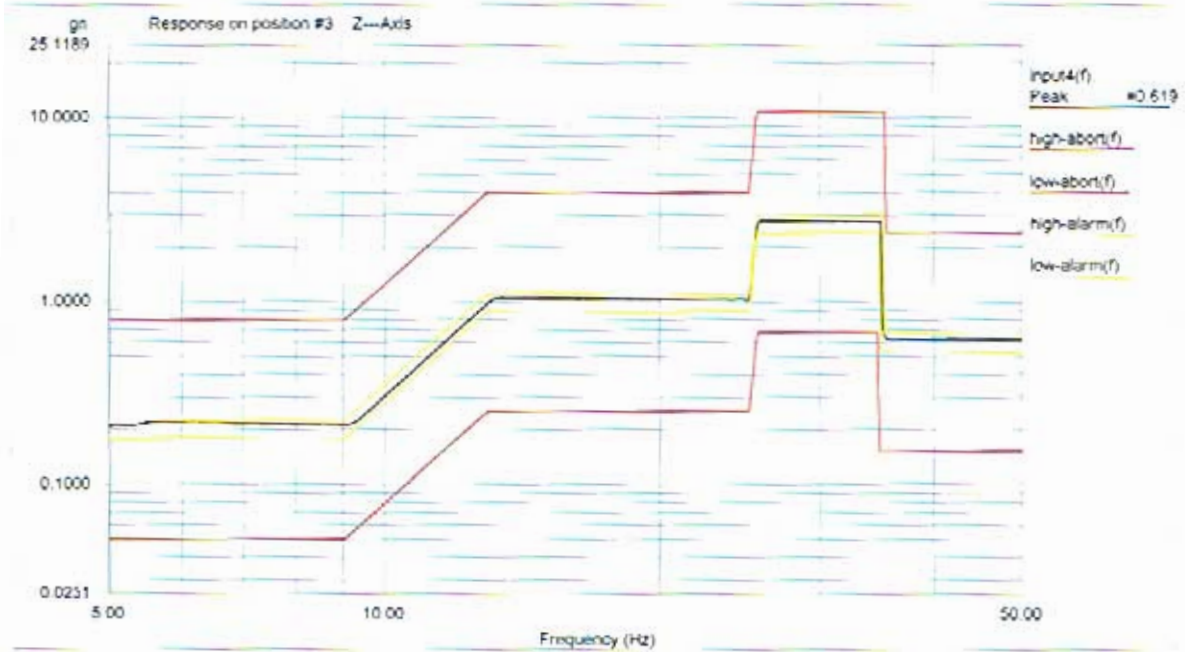
Level: 100% Control Peak: 0.604691 gn Full Level Time: 00:01:02 Sweep Type: Logarithmic
 Frequency: 49.979610 Hz Demand Peak: 0.600000 gn Time Remaining: 00:00:00 Sweep Rate: 4 Oct/Min

Data saved at 10:43:47 AM, Tuesday, January 24, 2006 Report created at 10:43:48 AM, Tuesday, January 24, 2006



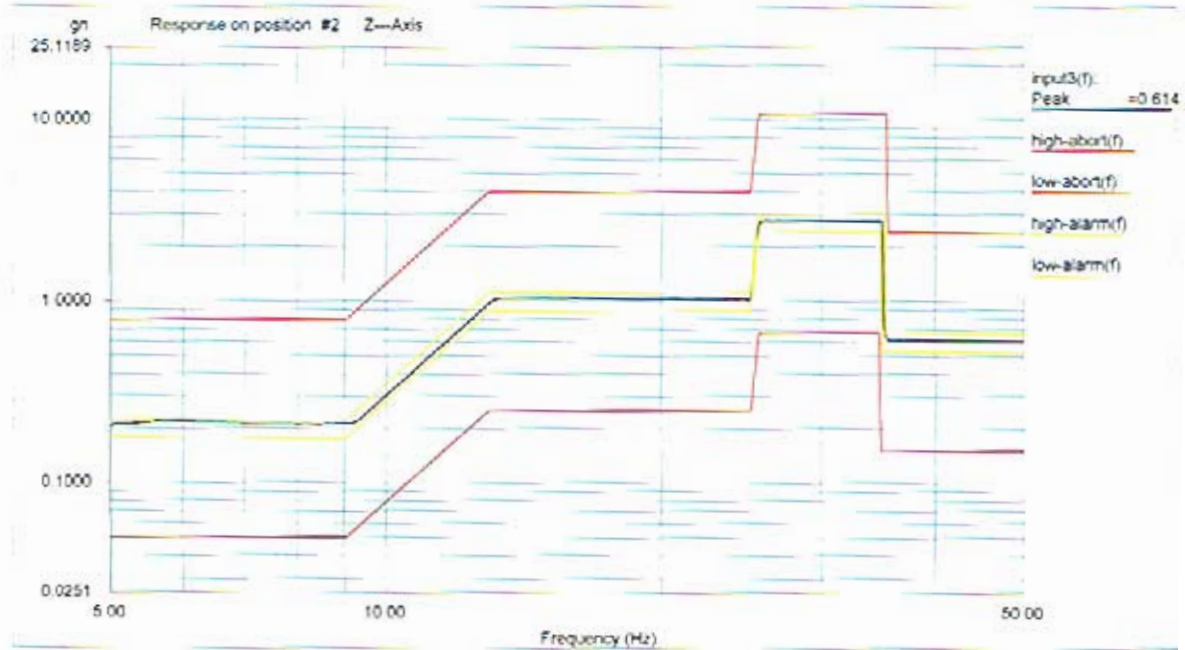
Level: 100% Control Peak: 0.604691 gn Full Level Time: 00:01:02 Sweep Type: Logarithmic
 Frequency: 49.979610 Hz Demand Peak: 0.600000 gn Time Remaining: 00:00:00 Sweep Rate: 4 Oct/Min

Data saved at 10:43:47 AM, Tuesday, January 24, 2006 Report created at 10:43:48 AM, Tuesday, January 24, 2006



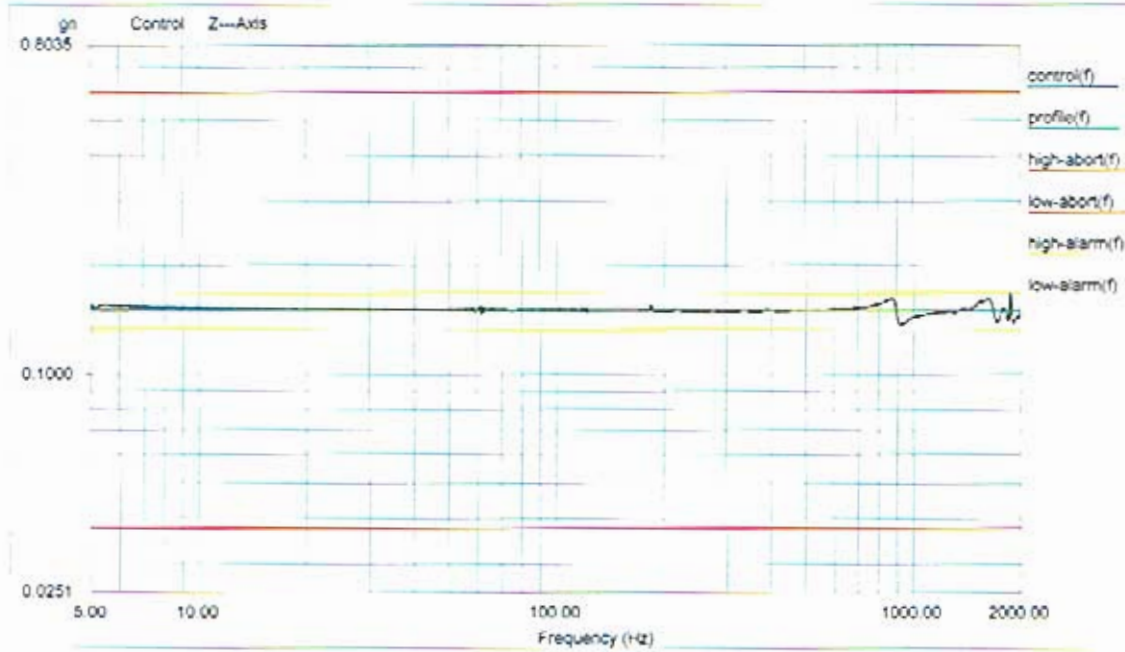
Level: 100 % Control Peak: 0.604691 gm Full Level Time: 00:01:02 Sweep Type: Logarithmic
 Frequency: 49.979610 Hz Demand Peak: 0.600000 gm Time Remaining: 00:00:00 Sweep Rate: 4 Oct/Min

Data saved at 10:43:47 AM, Tuesday, January 24, 2006 Report created at 10:43:48 AM, Tuesday, January 24, 2006



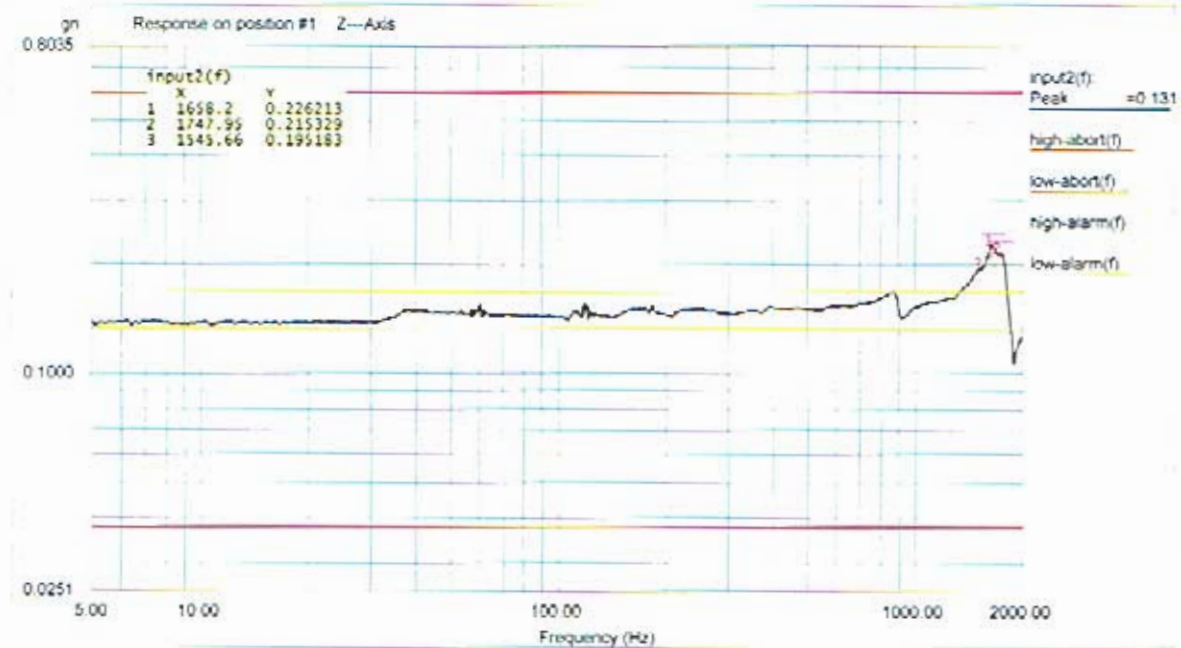
Level: 100 % Control Peak: 0.604691 gm Full Level Time: 00:01:02 Sweep Type: Logarithmic
 Frequency: 49.979610 Hz Demand Peak: 0.600000 gm Time Remaining: 00:00:00 Sweep Rate: 4 Oct/Min

Data saved at 10:43:47 AM, Tuesday, January 24, 2006 Report created at 10:43:48 AM, Tuesday, January 24, 2006



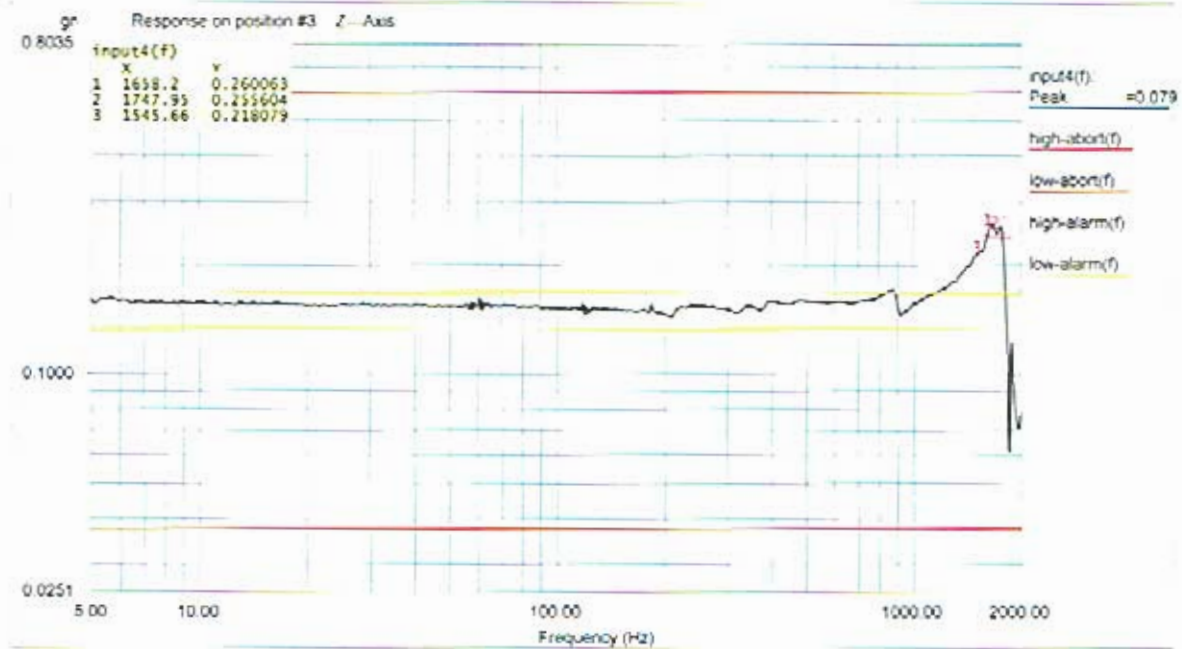
Level: 100% Control Peak: 0.148070 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 10:49:54 AM, Tuesday, January 24, 2006 Report created at 10:49:55 AM, Tuesday, January 24, 2006



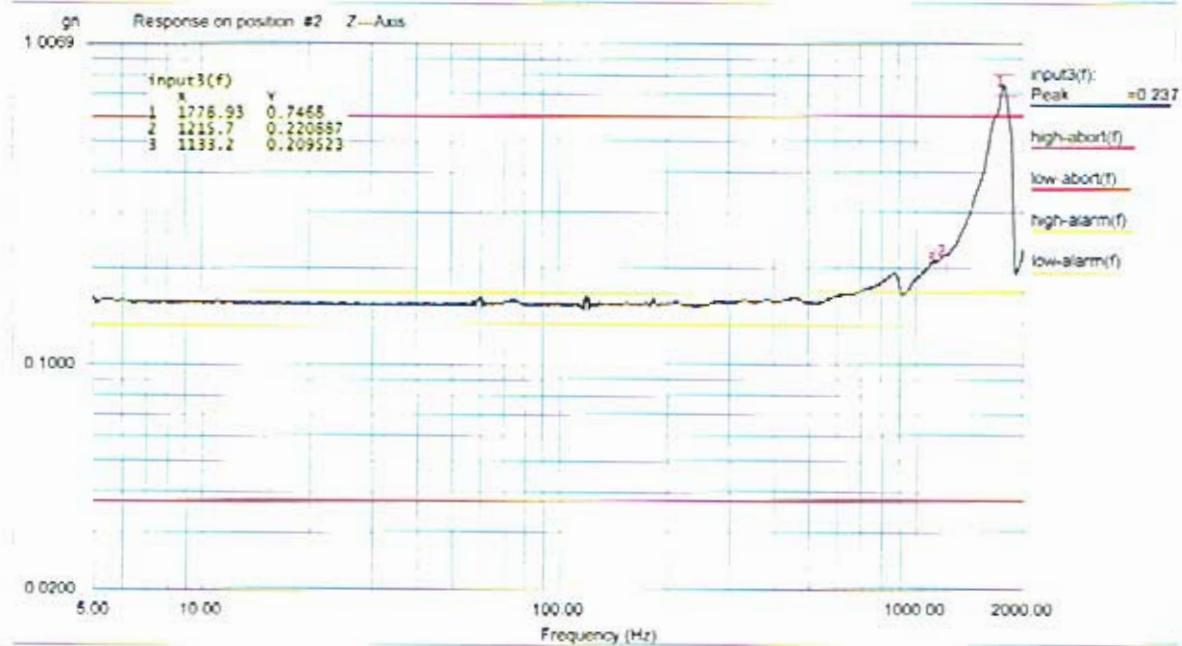
Level: 100% Control Peak: 0.148070 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 10:49:54 AM, Tuesday, January 24, 2006 Report created at 10:49:55 AM, Tuesday, January 24, 2006



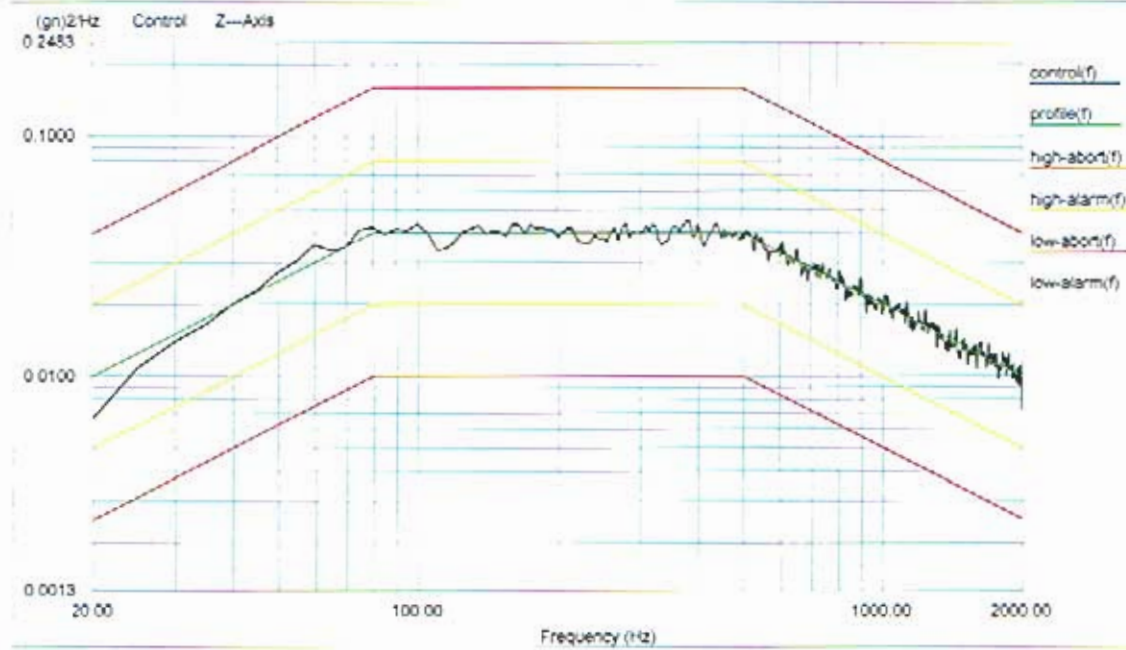
Level: 100 % Control Peak: 0.148070 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 10:49:54 AM, Tuesday, January 24, 2006 Report created at 10:49:55 AM, Tuesday, January 24, 2006

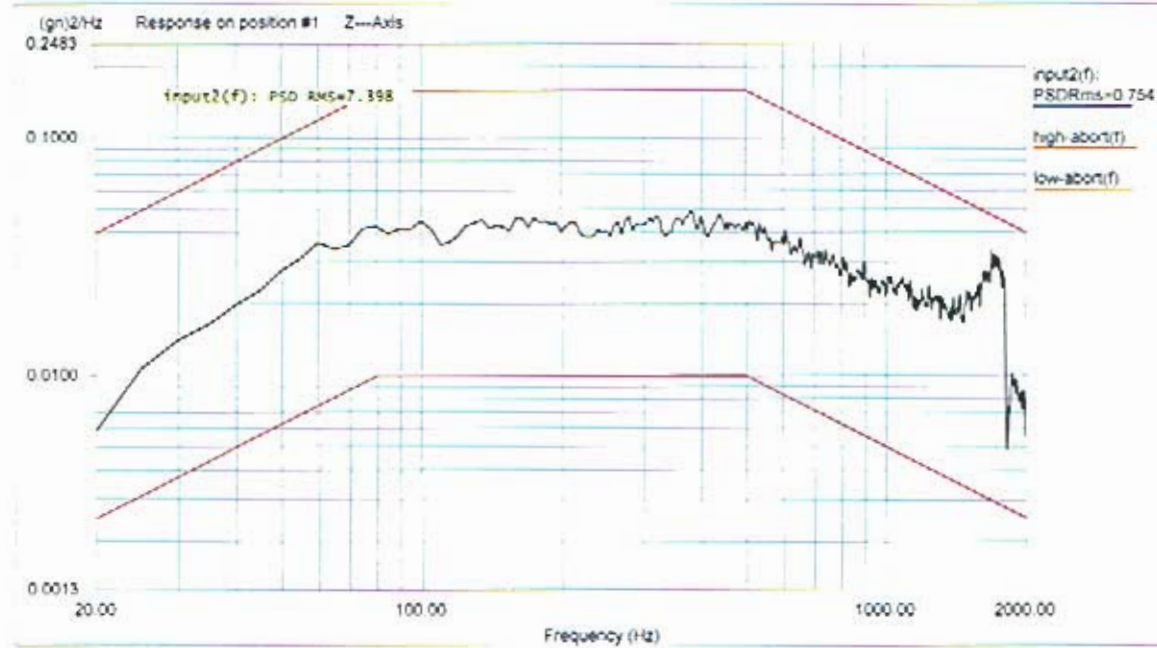


Level: 100 % Control Peak: 0.148070 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

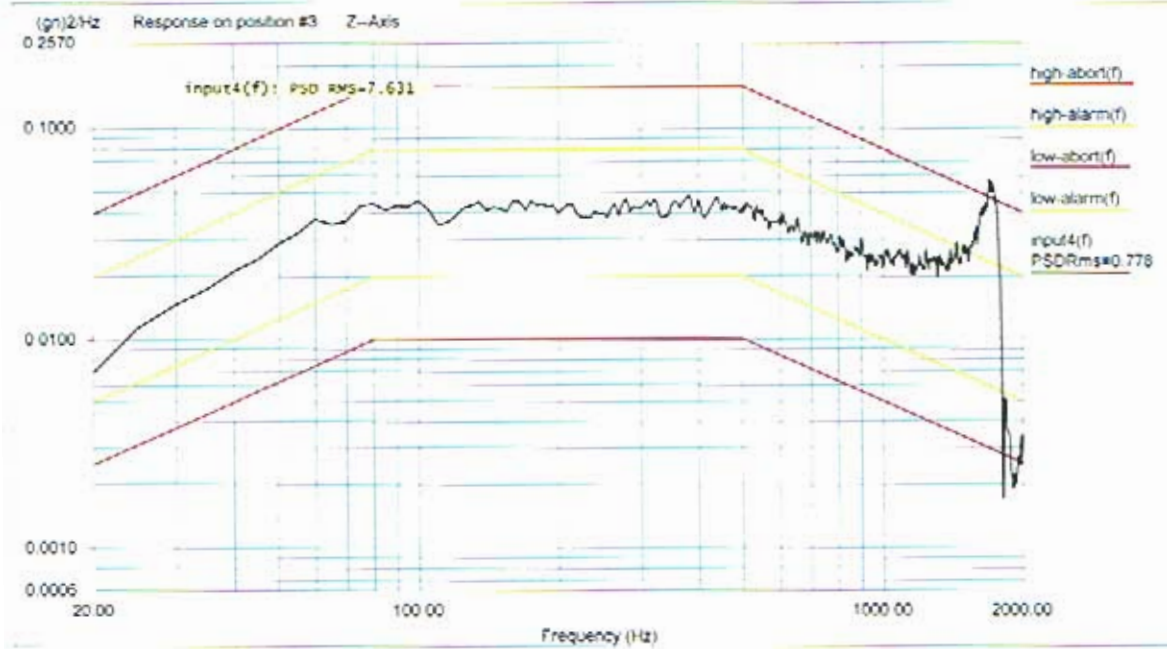
Data saved at 10:49:54 AM, Tuesday, January 24, 2006 Report created at 10:49:55 AM, Tuesday, January 24, 2006



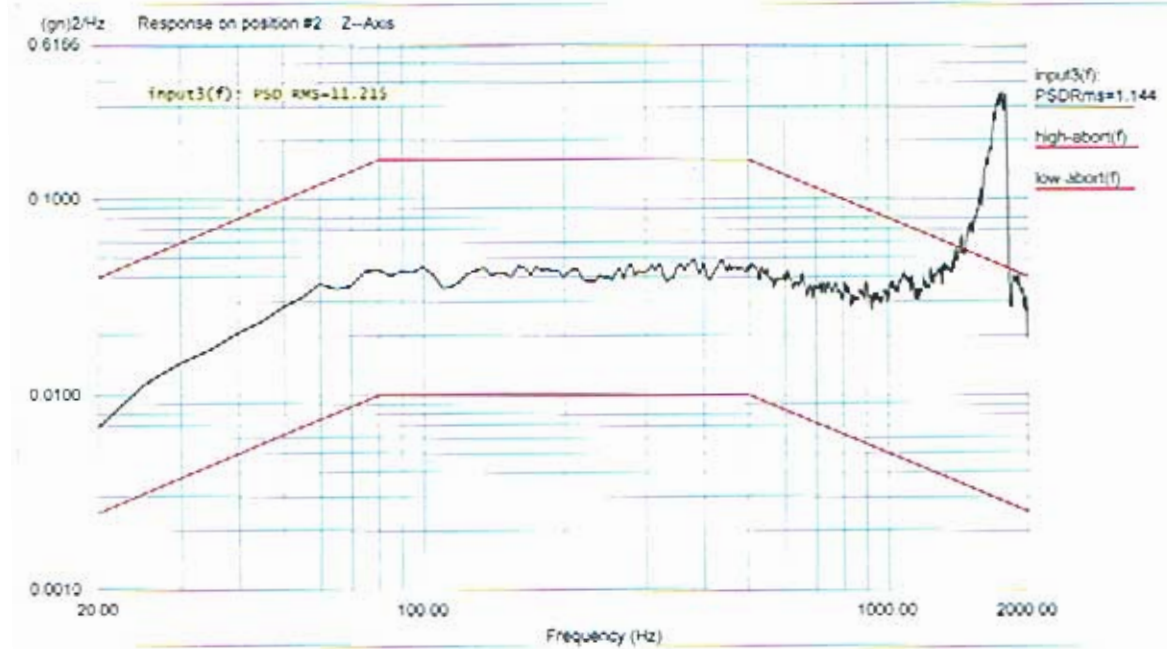
Level: 100 %
Control RMS: 6.795316 gn Full Level Elapsed Time: 00:01:00 Lines: 400 Frame Time: 0.200000 Seconds
Demand RMS: 6.785996 gn Remaining Time: 00:00:00 DOF: 154 df: 5.000000 Hz
Data saved at 10:54:24 AM, Tuesday, January 24, 2006 Report created at 10:54:25 AM, Tuesday, January 24, 2006



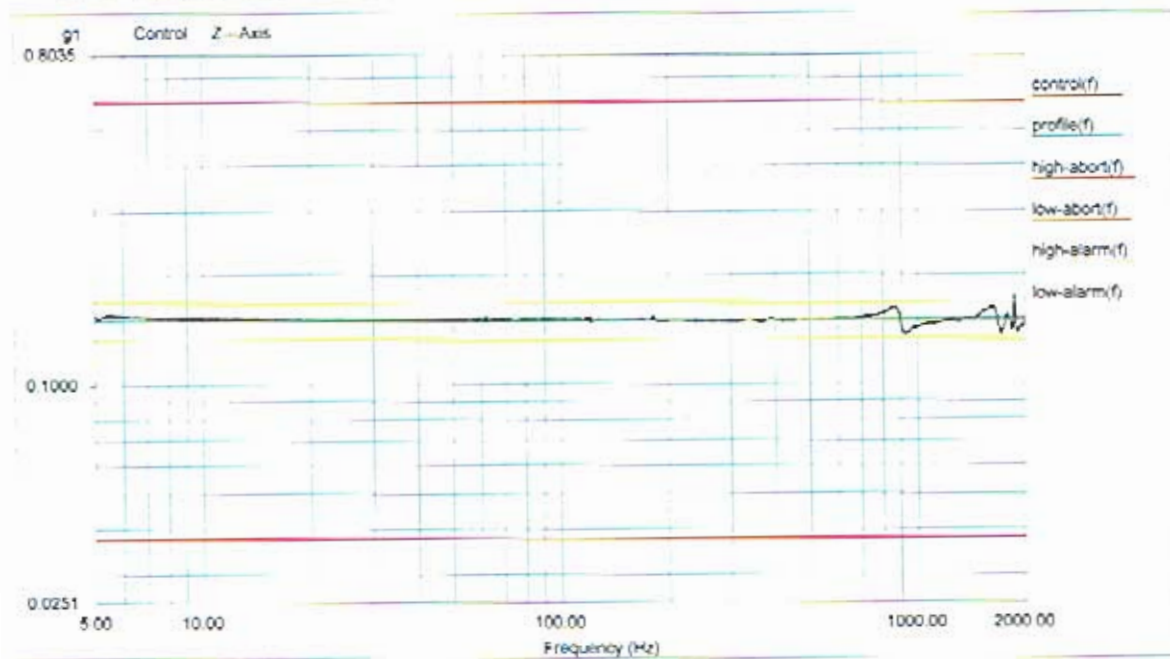
Level: 100 %
Control RMS: 6.795316 gn Full Level Elapsed Time: 00:01:00 Lines: 400 Frame Time: 0.200000 Seconds
Demand RMS: 6.785996 gn Remaining Time: 00:00:00 DOF: 154 df: 5.000000 Hz
Data saved at 10:54:24 AM, Tuesday, January 24, 2006 Report created at 10:54:25 AM, Tuesday, January 24, 2006



Level: 100 %
Control RMS: 6.795316 gn Full Level Elapsed Time: 00:01:00 Lines: 400 Frame Time: 0.200000 Seconds
Demand RMS: 6.785996 gn Remaining Time: 00:00:00 DOF: 154 dF: 5.000000 Hz
Data saved at 10:54:24 AM, Tuesday, January 24, 2006 Report created at 10:54:25 AM, Tuesday, January 24, 2006

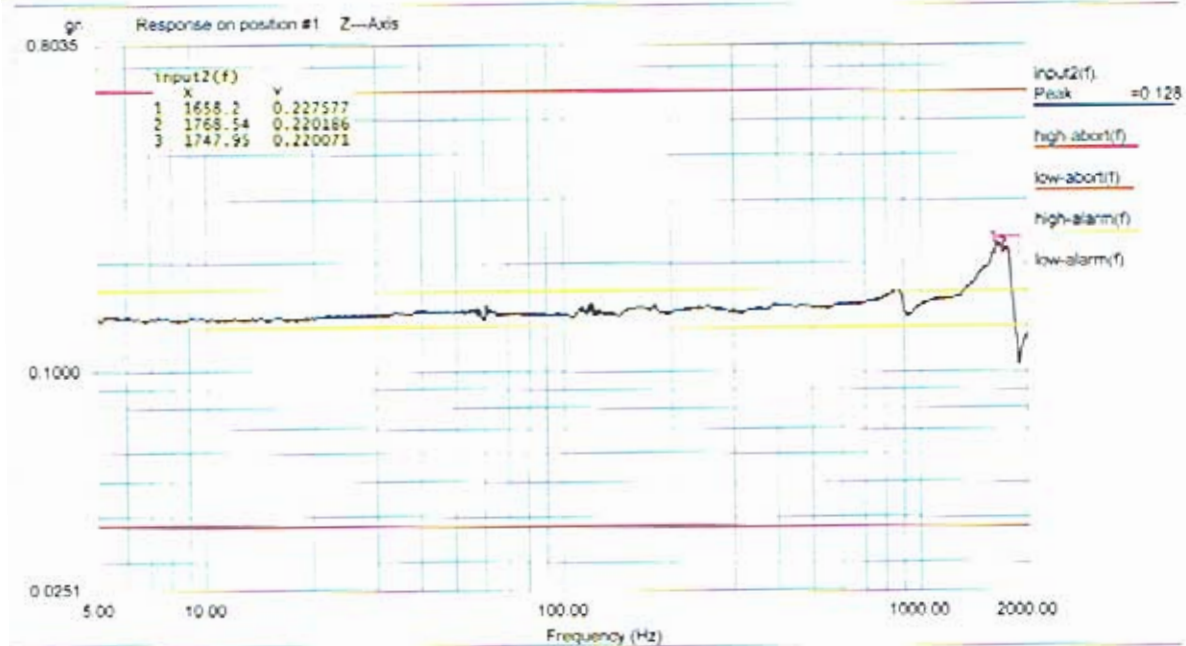


Level: 100 %
Control RMS: 6.795316 gn Full Level Elapsed Time: 00:01:00 Lines: 400 Frame Time: 0.200000 Seconds
Demand RMS: 6.785996 gn Remaining Time: 00:00:00 DOF: 154 dF: 5.000000 Hz
Data saved at 10:54:24 AM, Tuesday, January 24, 2006 Report created at 10:54:25 AM, Tuesday, January 24, 2006



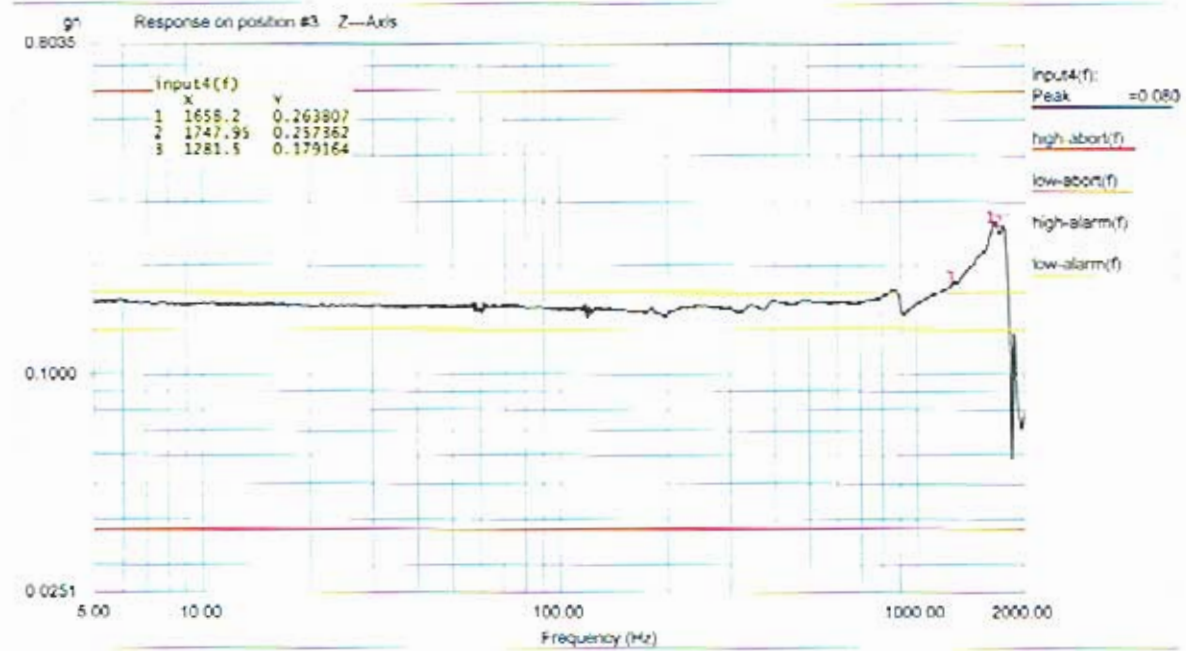
Level: 100% Control Peak: 0.148045 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 11:02:26 AM, Tuesday, January 24, 2006 Report created at 11:02:27 AM, Tuesday, January 24, 2006



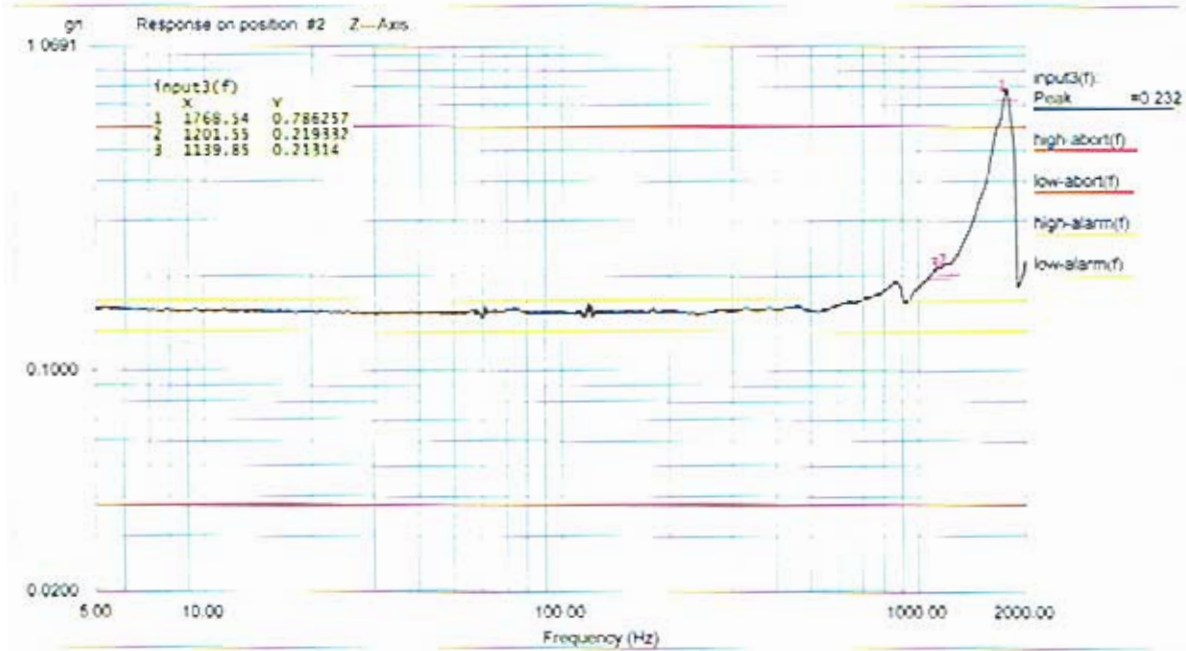
Level: 100% Control Peak: 0.148045 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 11:02:26 AM, Tuesday, January 24, 2006 Report created at 11:02:27 AM, Tuesday, January 24, 2006



Level: 100% Control Peak: 0.148045 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 11:02:26 AM, Tuesday, January 24, 2006 Report created at 11:02:27 AM, Tuesday, January 24, 2006



Level: 100% Control Peak: 0.148045 gn Full Level Time: 00:04:19 Sweep Type: Logarithmic
 Frequency: 1999.669067 Hz Demand Peak: 0.150000 gn Time Remaining: 00:00:00 Sweep Rate: 2 Oct/Min

Data saved at 11:02:26 AM, Tuesday, January 24, 2006 Report created at 11:02:27 AM, Tuesday, January 24, 2006