

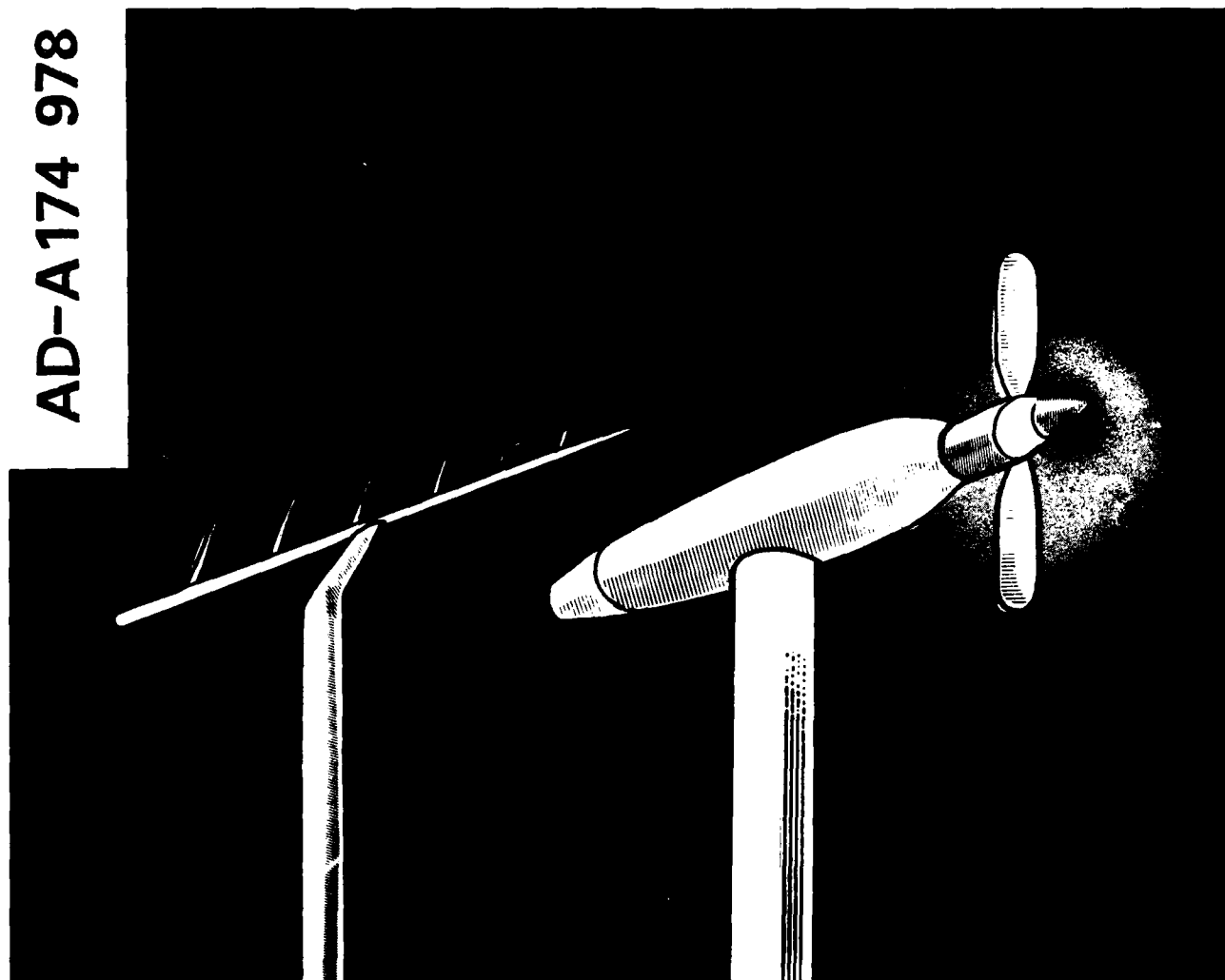
1

DFVLR/FAA Propeller Noise Tests in the German-Dutch Wind Tunnel DNW

Appendix II: Basic Test-program
(Propeller 2: Thickness 8.5%, Square Tip-shape)

DFVLR-IB 129-86/3
FAA Report No. AEE 86-3

AD-A174 978



Jointly conducted by:



US Department
of Transportation
**Federal Aviation
Administration**

Office of Environment
and Energy



Deutsche Forschungs-und
Versuchsanstalt für
Luft-und Raumfahrt e.V.

Inst. für Entwurfsaerodynamik
Abteilung Technische Akustik

This document has been approved
for public release and its
distribution is unlimited.

DTIC
SELECTED

DEC 10 1986

A

by Werner M. Dobrzynski
Hanno H. Heller
John O. Powers
James E Densmore

86 12 09 100

DTIC FILE COPY

DATA REPORT ON PROPELLER NOISE TESTS
IN THE GERMAN-DUTCH WIND TUNNEL

APPENDIX II

RESULTS FROM THE BASIC TEST-PROGRAM
(PROPELLER 2: THICKNESS 8.5%, SQUARE TIP-SHAPE)

by

W. Dobrzynski*, H. Heller*
and
J. Powers**, J. Densmore**

* DFVLR, Flughafen, 3300 Braunschweig, W.-Germany

** FAA, 800 Independence Ave., S.W., Washington, D.C. 20591, USA

Table of Content

1. Introduction
2. Microphone Array
3. Environmental and Operational Test-data
4. Overall Noise Levels from Direct Analog Analysis
5. Acoustic Pressure-time Histories and Narrow-band Spectra
6. Propeller Rotational Harmonic Noise- and Overall Noise Levels
7. Comments on Data Interpretation



Accession For	
NTIS GRA&I	☒
DTIC TAB	☐
Unannounced	☐
Justification	☐
Ser 40-7442 50	
By	
Dissemination	
Availability	
List	
A-1	

1. Introduction

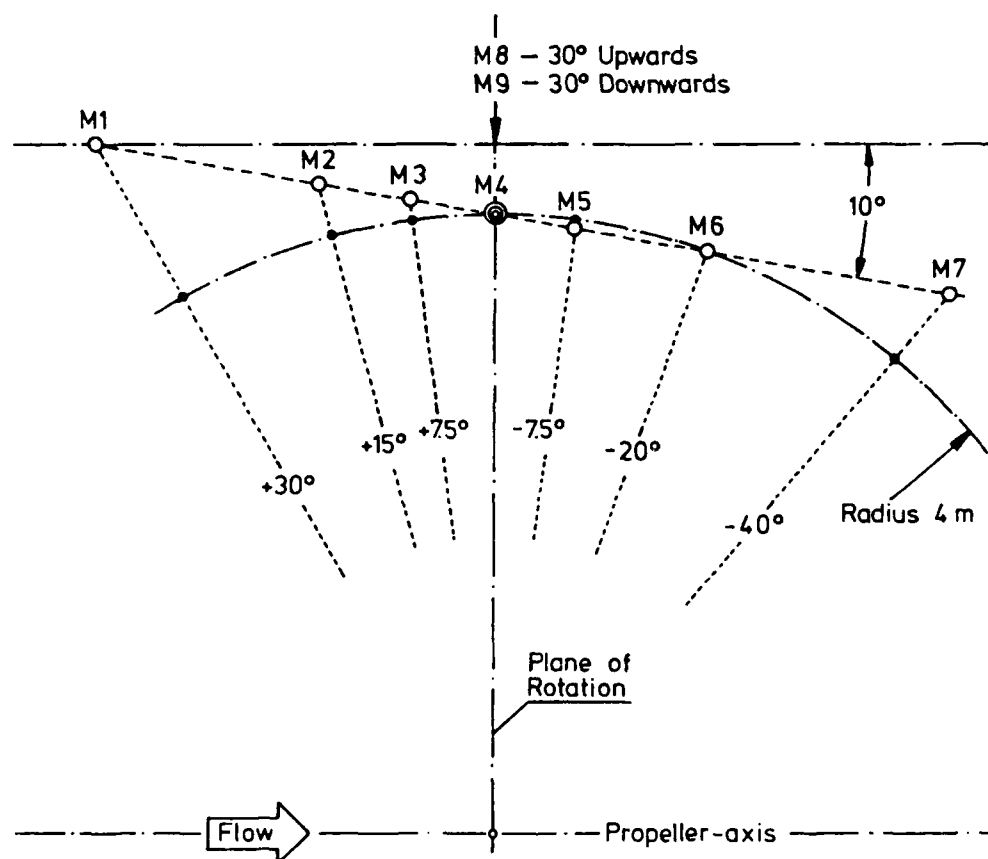
Within a joint effort (and supported by the German Ministry of Research and Technology/BMFT) between the Deutsche Forschungs- und Versuchsanstalt für Luft- und Raumfahrt (DFVLR), the US Federal Aviation Administration (FAA), and the German Ministry of Transportation (BMV), propeller noise tests were conducted in the "Deutsch-Niederländischer Windkanal/German Dutch Wind Tunnel (DNW)" to develop high quality propeller-acoustics data, which could be used by manufacturers for acoustic design purposes, and by researchers to validate established or newly developed theoretical noise prediction methods.

Specifically, the program addressed propeller Mach-number and disc-plane attitude effects as related to noise certification test and evaluation procedures. Changes in Mach-number, as they affect acoustic data adjustments, were explored through independent variation of tunnel flow velocity, propeller rotational speed and ambient air temperature. The tests on the effect of in-flow angle on propeller noise also incorporated the influence of a typical engine nacelle on the flow field and, hence, on the propeller noise.

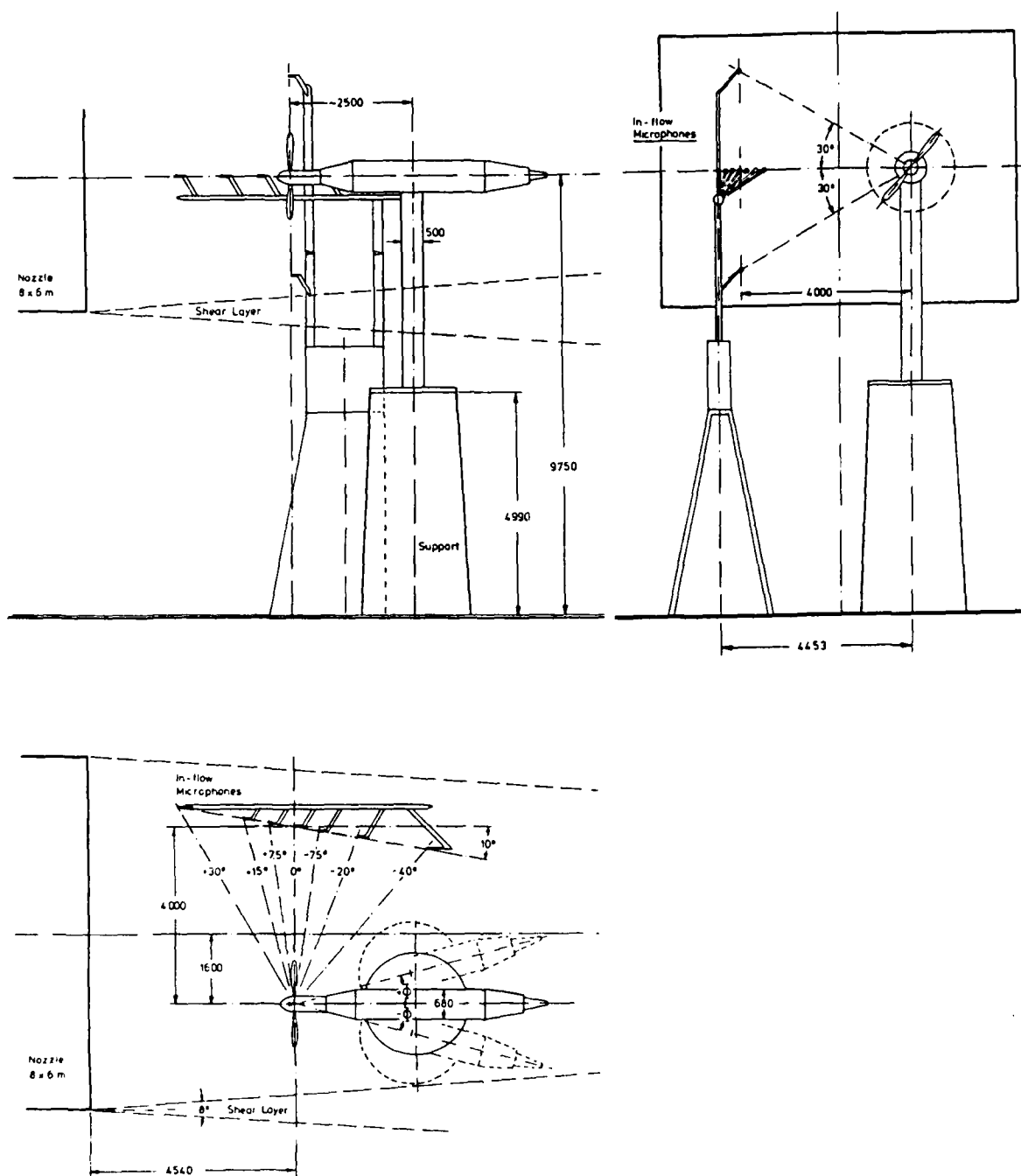
In this Appendix the results from the basic test-program (Propeller 2: Thickness 8.5%, square tip-shape) are documented in terms of pressure-time histories, narrow-band spectra and un-weighted as well as A-weighted overall sound pressure levels, together with supplementary information necessary for further data interpretation. A detailed description of data-acquisition and -reduction techniques is provided by the "Executive Report" to this Appendix.

2. Microphone Array

A total of seven in-flow microphones were positioned in the horizontal plane at different streamwise locations corresponding to particular geometric radiation angles from the propeller center. Two additional microphones were positioned in the plane of rotation (4 m lateral distance to the propeller axis) at angles of ± 30 deg respectively above and below the horizontal plane with reference to the propeller center.



In-flow Microphone Positioning



Schematic Representation of Test-rig Arrangement within the Core-flow Regime of the DNW 8x6m² Open Test Section

3. Environmental and Operational Test-data

In the following table(s) the data-point matrix is documented. These table(s) summarise the as-measured data and characteristic propeller operational parameters as calculated from measured data.

RUN NO.	DATA POINT	PITCH ANGLE DEG	ROT. SPEED RPM	FLOW VEL. M/S	POWER KW	THRUST NEWTON	ATTITUDE ANGLE DEG	FLOW TEMP. KELVIN	FLOW PRES. PASCAL	FLOW DENS. KG/CM	ADV. RATIO	ATTACK ANGLE DEG	POWER COEF.	THRUST COEF.	HEL. MACHN.
85	AC-1	21.6	2100.	54.1	105.3	1549.	0.0	287.7	99582.	1.203	0.2421	3.708	0.0589	0.0617	0.6760
84	AC-2	21.6	2400.	61.2	162.9	2099.	0.0	287.9	99547.	1.202	0.2397	3.878	0.0611	0.0640	0.7719
83	AC-3	21.6	2700.	69.5	250.5	2839.	0.0	288.2	99575.	1.201	0.2419	3.721	0.0661	0.0685	0.8684
80	AC-4	21.6	2400.	77.0	79.9	686.	0.0	287.2	99412.	1.203	0.3015	-0.303	0.0300	0.0209	0.7850
81	AC-5	21.6	2700.	76.8	199.1	1986.	0.0	288.0	99412.	1.199	0.2673	1.981	0.0526	0.0480	0.8740
82	AC-7	21.6	2189.	77.1	19.7	-20.	0.0	288.1	99534.	1.200	0.3310	-2.216	0.0098	-0.0007	0.7209
77	BC-1	20.7	1800.	34.3	81.8	1755.	0.0	286.6	99181.	1.203	0.1791	7.269	0.0727	0.0951	0.5732
76	BC-2	20.7	2100.	40.0	132.2	2432.	0.0	286.6	99166.	1.203	0.1790	7.275	0.0740	0.0968	0.6688
75	BC-3	20.7	2400.	45.9	205.8	3310.	0.0	286.6	99143.	1.202	0.1798	7.222	0.0772	0.1009	0.7644
73	BC-4	20.7	2100.	51.2	99.0	1579.	0.0	285.9	99124.	1.205	0.2292	3.710	0.0553	0.0627	0.6762
72	BC-5	20.7	2400.	51.5	187.0	2844.	0.0	286.9	99134.	1.201	0.2017	5.648	0.0702	0.0868	0.7671
70	BC-6	20.7	2700.	77.0	161.7	1574.	0.0	285.8	99154.	1.206	0.2680	1.034	0.0425	0.0378	0.8775
71	BC-61	20.7	2800.	77.4	213.5	2099.	0.0	286.9	99154.	1.201	0.2598	1.593	0.0505	0.0471	0.9064
74	BC-7	20.7	1522.	51.3	7.5	5.	0.0	286.4	99144.	1.203	0.3168	-2.199	0.0110	0.0004	0.5007
117	CC-1	24.4	1800.	38.8	109.7	2074.	0.0	287.6	100157.	1.211	0.2026	9.283	0.0969	0.1117	0.5747
118	CC-2	24.4	2100.	44.7	181.0	2942.	0.0	287.7	100135.	1.210	0.2001	9.464	0.1007	0.1164	0.6701
119	CC-3	24.4	1800.	51.2	86.3	1373.	0.0	288.1	100141.	1.208	0.2673	4.781	0.0764	0.0741	0.5825
120	CC-4	24.4	2100.	51.5	165.8	2496.	0.0	288.4	100101.	1.206	0.2305	7.316	0.0925	0.0991	0.6734
121	CC-7	24.4	2250.	51.8	218.2	3172.	0.0	288.6	100091.	1.205	0.2164	8.307	0.0991	0.1098	0.7191
123	CC-5	24.4	2400.	67.2	221.7	2663.	0.0	289.7	100100.	1.200	0.2632	5.064	0.0833	0.0813	0.7738
122	CC-6	24.4	1294.	51.6	5.0	-15.	0.0	288.8	100120.	1.205	0.3748	-2.153	0.0119	-0.0016	0.4315
115	DC-1	29.5	1800.	43.7	158.1	2511.	0.0	288.8	100126.	1.205	0.2282	12.578	0.1403	0.1358	0.5766
111	DC-2	29.5	1800.	51.3	149.3	2211.	0.0	288.2	100099.	1.207	0.2679	9.845	0.1322	0.1194	0.5825
114	DC-3	29.5	2100.	66.9	225.2	2628.	0.0	289.2	100152.	1.203	0.2994	7.737	0.1260	0.1046	0.6841
113	DC-4	29.5	1055.	51.1	5.4	0.	0.0	288.5	100128.	1.206	0.4552	-1.758	0.0238	0.0000	0.3622

4. Overall Noise Levels from Direct Analog Analysis

The following tables provide unweighted (OASPL) and A-weighted (L_A) overall sound pressure levels from quick-look analog data-analysis of measured data for all data-points and microphone positions respectively. Level-numbers which are identified with an asterix are "disturbed data" and should not be interpreted.

BASIC PROGRAM, SQUARE-TIP PROP. (1)

DNW PROPELLER NOISE TEST

Run No.	Data Point		In-Flow Noise Level								
			M1	M2	M3	M4	M5	M6	M7	M8	M9
85	AC-1	L -dB(A)	92.1	97.6*	97.8	98.8	99.1	100.8	96.3*	103.7*	99.4
		OASPL-dB	105.6	111.7*	110.7	111.9	113.2	115.3	110.5*	116.9*	113.0
84	AC-2	L -dB(A)	101.3	107.1	110.0	110.7	110.8	101.3	101.7*	110.0	109.5
		OASPL-dB	112.0	117.9*	117.2	118.3	119.6	122.2	115.6*	120.0	119.2
83	AC-3	L -dB(A)	113.8	124.3*	125.8	126.3	124.7	122.1	113.1*	124.5	125.2
		OASPL-dB	120.3	129.5*	128.0	128.7	128.3	128.5	126.5*	127.6	128.4
80	AC-4	L -dB(A)	110.6*	109.9*	110.5	111.2	111.0	116.6*	121.0*	110.4	110.6
		OASPL-dB	119.0*	121.7*	118.3	119.5	120.0	125.5*	134.6*	125.7*	125.7*
81	AC-5	L -dB(A)	115.2*	124.4	126.0	126.3	124.5	121.9	121.6*	124.5	125.3
		OASPL-dB	122.5*	130.7*	128.1	128.5	127.9	128.8	134.5*	129.0	129.4
82**	AC-7	L -dB(A)	105.7*	106.3*	103.2	105.3*	107.3	116.4*	126.6*	106.9*	105.8
		OASPL-dB	115.2*	121.0*	116.2*	118.6*	118.6	125.7*	132.9*	126.8	125.7*
77	BC-1	L -dB(A)	84.4	87.1	87.8	88.8	89.1	--	85.3	87.9	89.0
		OASPL-dB	101.1	103.7	104.9	106.3	107.5	--	104.5	106.5	108.3
76	BC-2	L -dB(A)	91.3	97.1	98.4	99.3	99.6	--	92.1	97.7	99.5
		OASPL-dB	106.0	110.3	111.5	112.8	114.2	--	111.0	110.9	113.1
75	BC-3	L -dB(A)	101.3	107.7	110.5	111.1	112.2	--	100.2	109.9	110.3
		OASPL-dB	112.3	116.0	117.8	119.3	121.0	--	116.6	117.9	118.5
73	BC-4	L -dB(A)	91.7	96.9	--	98.7	99.1	--	95.7*	100.9*	99.6
		OASPL-dB	104.8	111.6*	--	111.8	113.0	--	109.7*	115.1*	112.4
72	BC-5	L -dB(A)	101.3	107.7	--	110.7	111.4	--	100.2*	109.9	109.9
		OASPL-dB	111.8	116.1	--	118.8	120.4	--	115.6*	119.2	118.2
70	BC-6	L -dB(A)	116.0*	124.1	125.9	126.2	124.5	--	121.5*	124.5	125.3
		OASPL-dB	124.2*	129.2*	128.0	128.5	127.3	--	134.6*	128.5	129.2
71	BC-61	L -dB(A)	118.9	129.3	131.5	131.5	129.4	--	123.7	129.8	130.0
		OASPL-dB	124.8*	133.8*	132.7	132.8	131.5	--	135.9*	131.8	132.0
74**	BC-7	L -dB(A)	87.7	88.9*	88.3	89.0	91.7	--	91.3*	100.5*	95.7*
		OASPL-dB	97.7	106.5*	99.7	102.2*	105.6	--	101.6*	114.5*	108.8*

*Higher "R" values

**Windmilling

Linear- and A-weighted Overall Noise Levels from Analog Data-analysis

BASIC PROGRAM, SQUARE-TIP PROP. (2)

DNW PROPELLER NOISE TEST

Run No.	Data Point		In-Flow Noise Level								
			M1	M2	M3	M4	M5	M6	M7	M8	M9
117	CC-1	L -dB(A)	87.4	89.7	90.9	91.3	91.9	91.1	89.0	90.1	91.8
		OASPL-dB	103.8	106.4	107.7	108.9	109.8	109.0	106.1	109.3	109.2
118	CC-2	L -dB(A)	93.3	98.3	100.8	101.7	102.1	100.7	94.9	100.1	100.6
		OASPL-dB	107.2	112.5	114.4	115.9	116.9	116.7	112.7	113.8	113.4
119	CC-3	L -dB(A)	88.6	90.0	90.9	92.1	94.0	93.4	93.4*	99.6*	94.8
		OASPL-dB	102.9	105.2	106.5	107.7	109.7	108.9	106.4*	115.5*	110.4
120	CC-4	L -dB(A)	92.7	97.8	99.8	100.7	101.5	100.2	96.6*	102.9*	100.3
		OASPL-dB	107.5	112.1	113.1	114.4	115.8	116.0	114.1*	117.1*	113.6
121	CC-7	L -dB(A)	97.4	103.4	105.8	106.8	107.7	105.5	99.2	107.0*	105.4
		OASPL-dB	111.5	116.0	117.2	118.1	119.1	118.6	116.8*	119.5	116.6
123	CC-5	L -dB(A)	102.3	108.5	111.2	111.7	112.3	109.1	107.7*	111.8	110.2
		OASPL-dB	113.6	118.4*	118.7	119.9	121.7	121.3	123.1*	121.5	120.7
122**	CC-6	L -dB(A)	87.5	87.5	87.9	89.6	92.6	92.1	92.9*	100.8*	94.0
		OASPL-dB	98.0	102.8*	98.9	100.9	105.4	103.8	102.6*	114.9*	107.1*
115	DC-1	L -dB(A)	91.5	95.7	94.7	95.6	96.5	95.9	94.2	94.2	95.7
		OASPL-dB	104.7	108.8	110.3	111.9	113.2	113.2	110.6	111.8	112.7
111	DC-2	L -dB(A)	91.1	97.2	94.0	95.3	97.0	95.7	95.5*	102.0	96.5
		OASPL-dB	106.1	110.6*	111.0	112.6	113.9	112.8	111.3*	115.9*	112.8
114	DC-3	L -dB(A)	96.7	104.6	102.5	104.0	105.6	103.7	107.6*	107.5	104.0
		OASPL-dB	109.5	116.6	116.7	118.0	119.7	118.8	119.4*	120.6	118.9
113**	DC-4	L -dB(A)	87.6	95.5	87.8	89.4	92.4	90.8	92.7*	98.9*	94.0
		OASPL-dB	97.0	105.2*	98.4	100.5	105.3	103.6	105.8*	113.6	107.3*

*Higher "R" values

**Windmilling

Linear- and A-weighted Overall Noise Levels from Analog Data-analysis

5. Acoustic Pressure-time Histories and Narrow-band Spectra

Acoustic data as presented in this section have been derived from a computer analysis of digitized analog tape-readings. For each data-point and microphone position respectively the data were processed and are presented in two different ways:

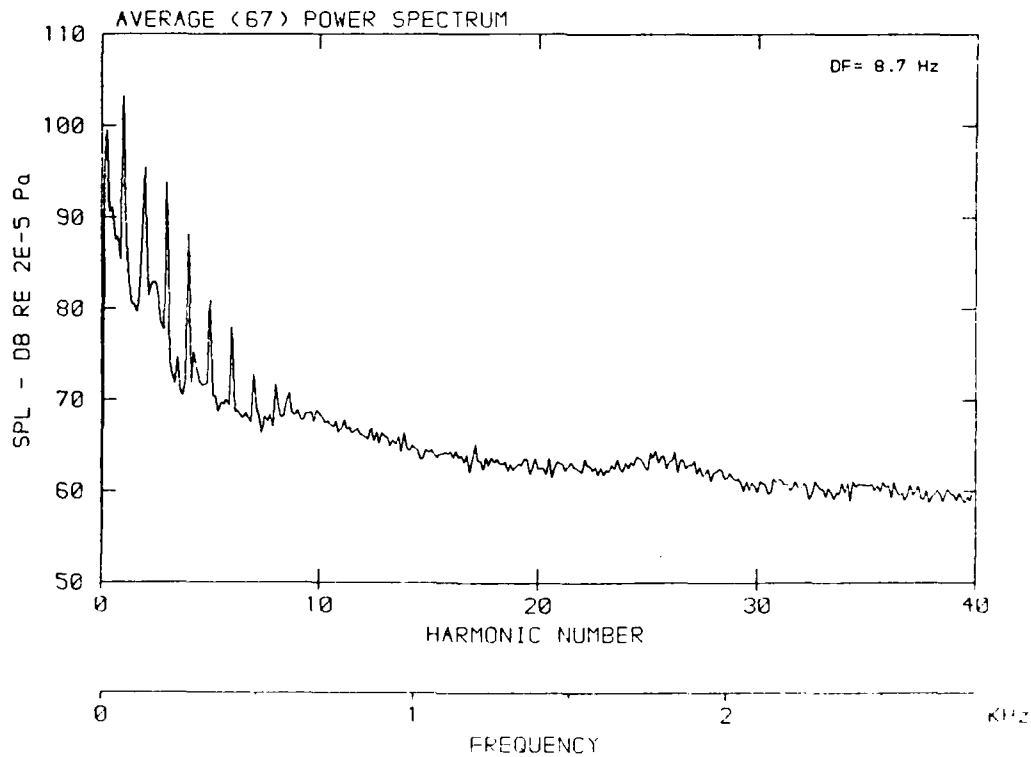
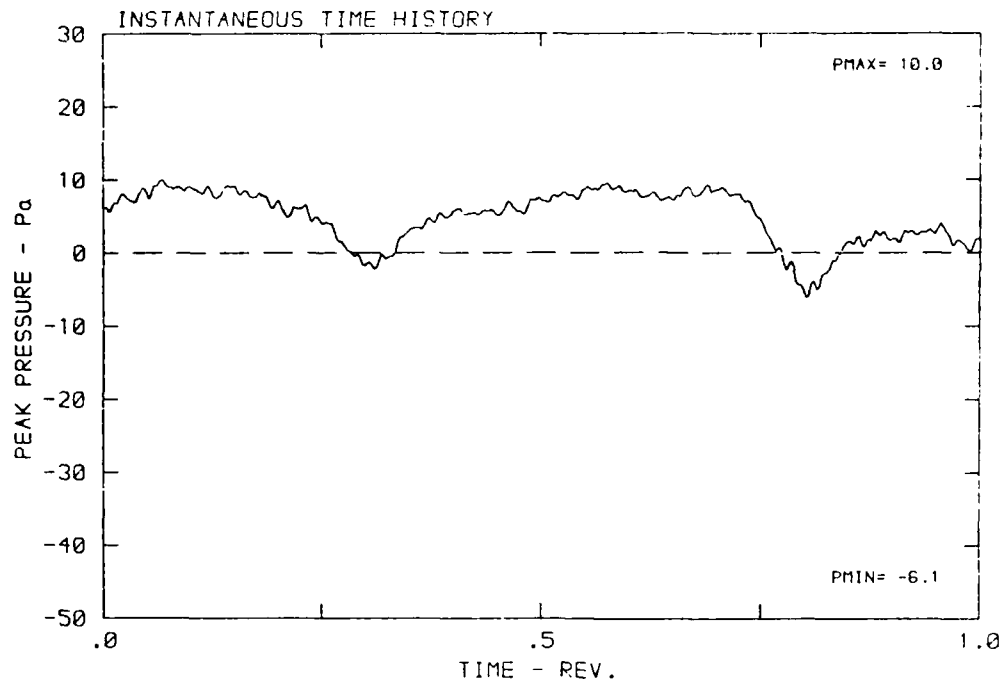
- a) A single instantaneous pressure-time history is presented and labeled "Instantaneous Time History" together with a power spectrum which had been calculated as an energy average of individual power spectra corresponding to a certain number of instantaneous pressure-time histories. This spectrum is labeled "Average (xx) Power Spectrum". The "xx" in the label denotes the number of time histories averaged in that particular spectrum.
- b) A certain number of instantaneous pressure-time histories is averaged in the time-domain and the resulting pressure averaged time-history is labeled "Average (xx) Time History". The "xx" in the label denotes the number of averaged instantaneous time-histories.

The value of ΔP in the brackets behind this label denotes the maximum peak-to-peak pressure amplitude difference in %, when referenced to the minimum peak-to-peak pressure amplitude difference as detected in the "xx" instantaneous time histories. The magnitude of ΔP can be taken as indicator to judge the stationarity (quality) of the respective data-record. If the value of ΔP is in excess of 496% respective data are marked with a triple star (***) to indicate that the data are heavily distorted.

From the pressure-averaged time-history a pressure level spectrum is calculated and labeled "Power Spectrum of Averaged Time History".

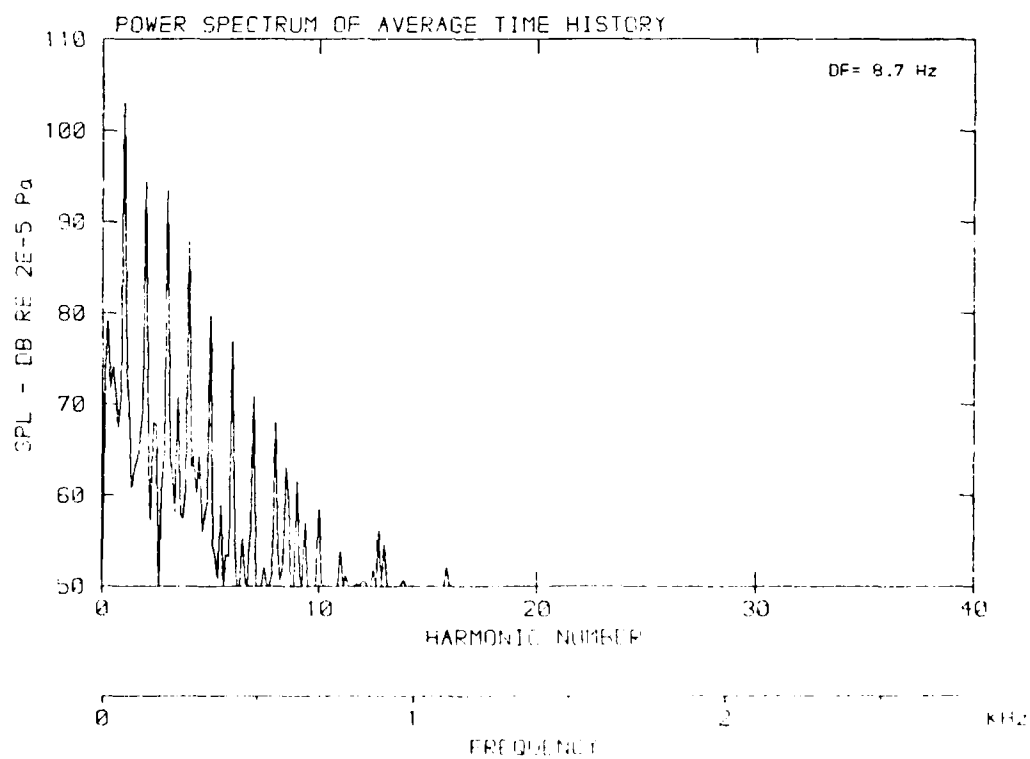
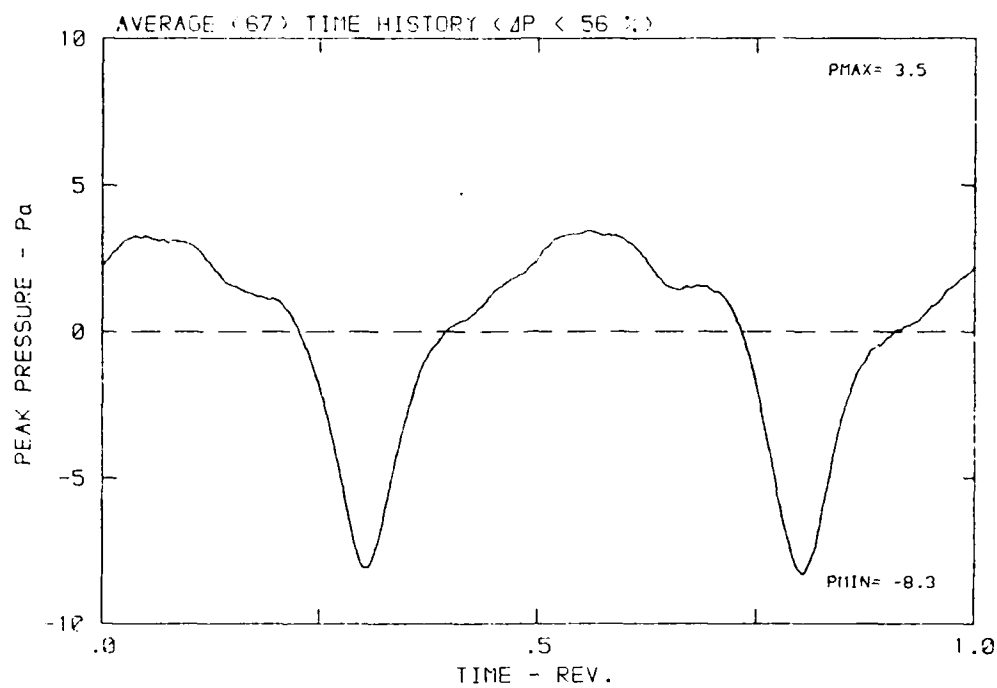
DATA POINT: AC-1 RUN: 85 MP: 1

β : 21.6° MH: .6760 n: 2100 rpm v/u : .242 ϕ : .0° T: 297.7 K



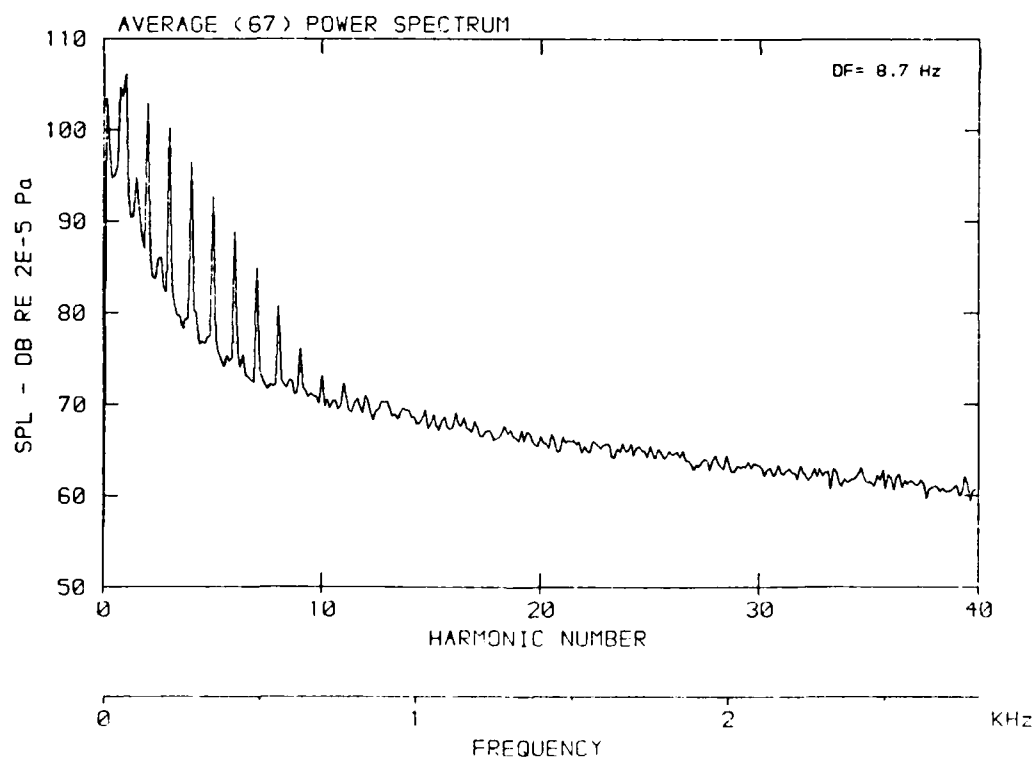
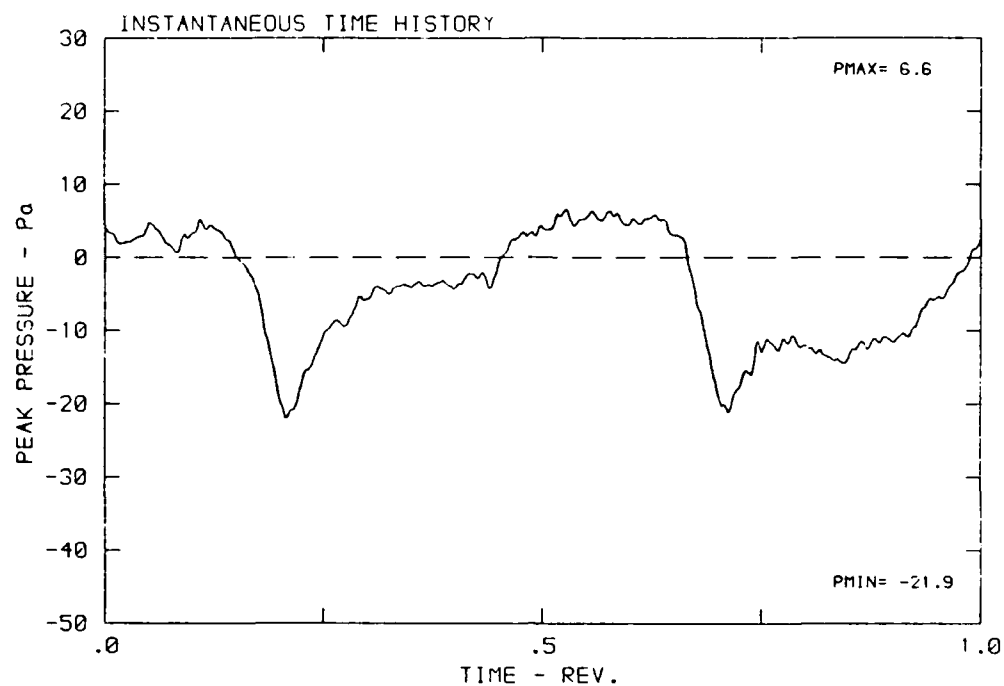
DATA POINT: AC-1 RUN: 85 MP: 1

β : 21.6° MH: .6760 n: 2100 rpm v/u: .242 ϕ : .0° T: 287.7 K



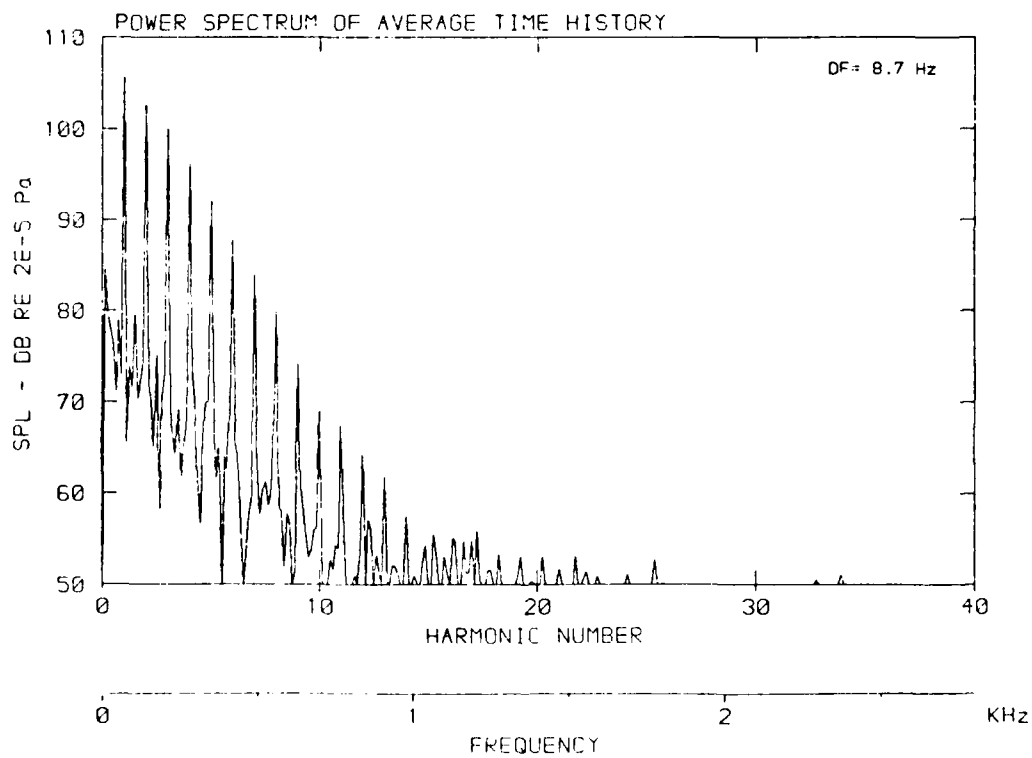
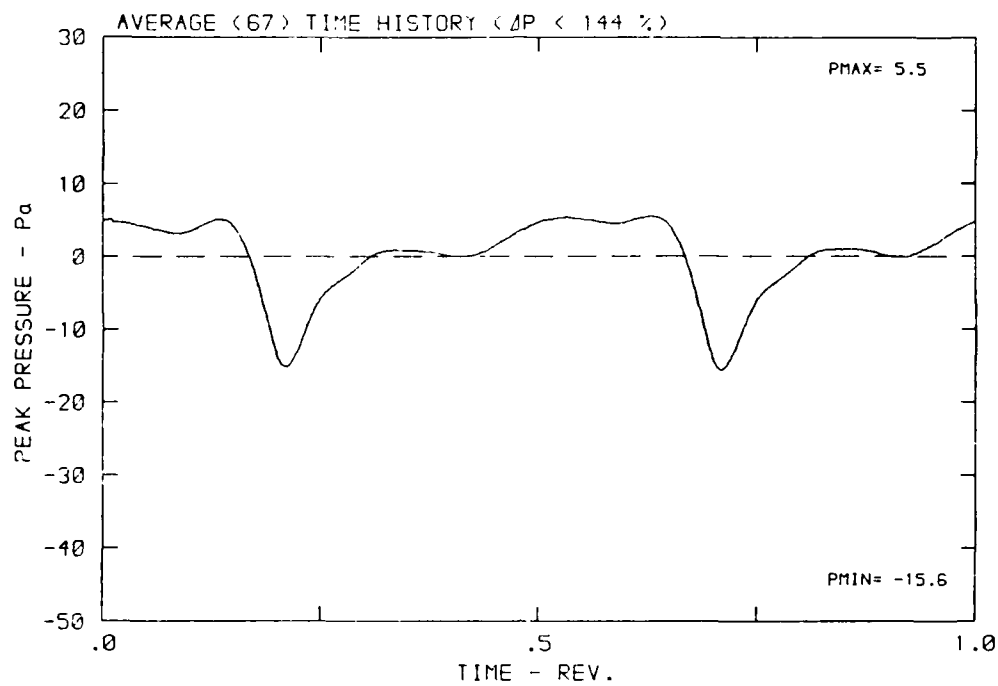
DATA POINT: AC-1 RUN: 85 MP: 2

β : 21.6° MH: .6760 n: 2100 rpm v/u: .242 ϕ : .0° T: 287.7 K



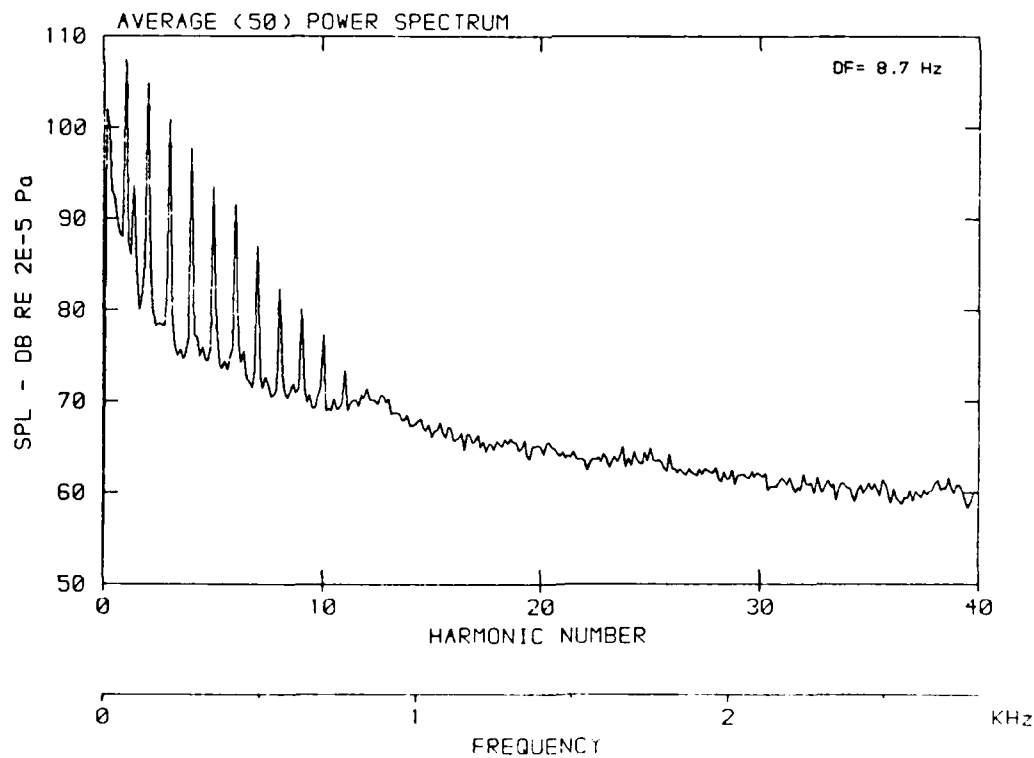
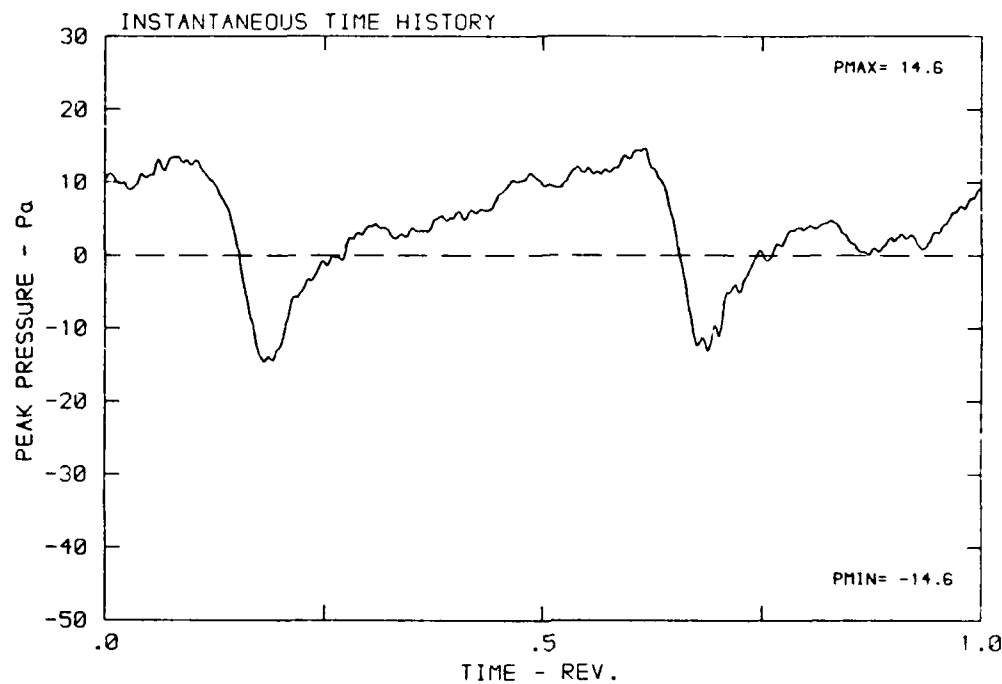
DATA POINT: AC-1 RUN: 85 MP: 2

β : 21.6° MH: .6760 n: 2100 rpm v/u: .242 ϕ : .0° T: 287.7 K



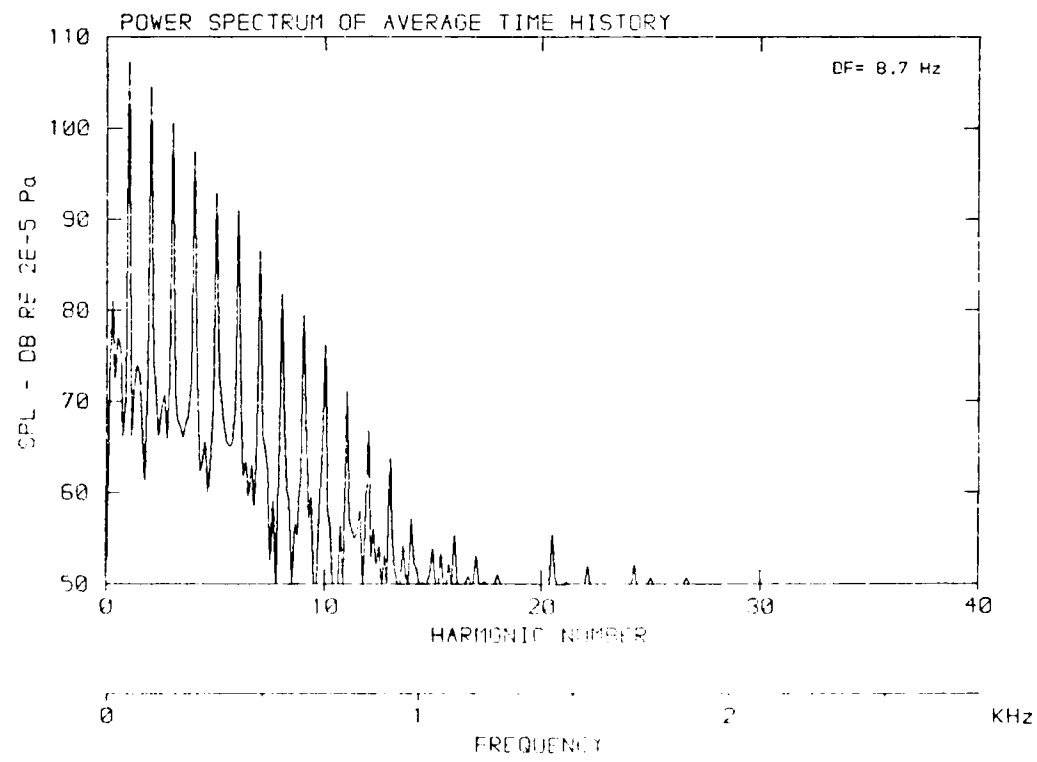
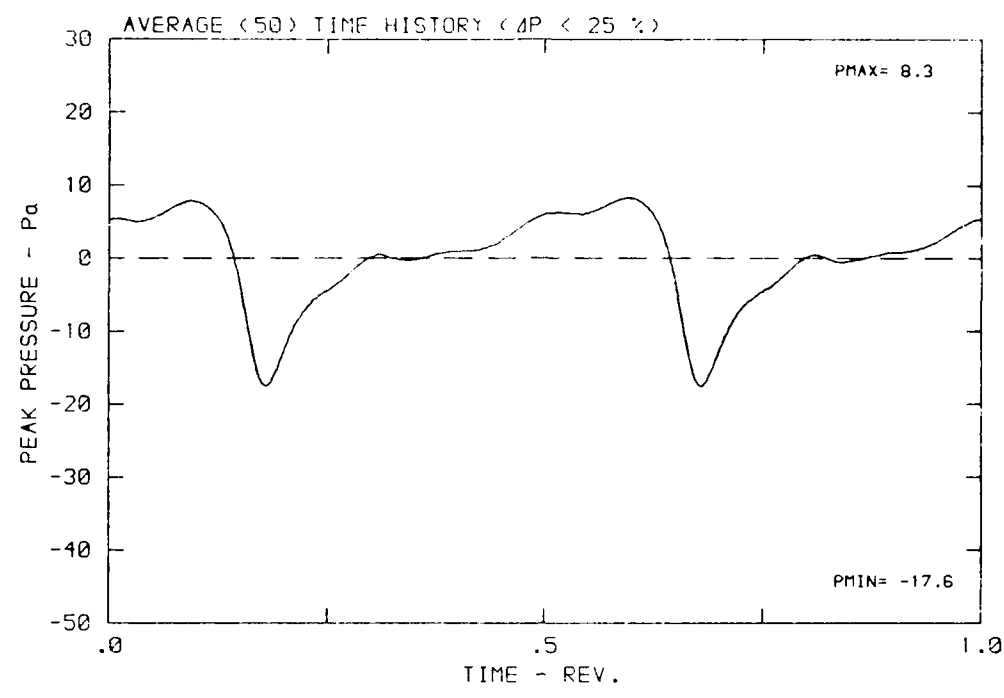
DATA POINT: AC-1 RUN: 85 MP: 3

β : 21.6° MH: .6760 n: 2100 rpm v/u: .242 ϕ : .0° T: 287.7 K



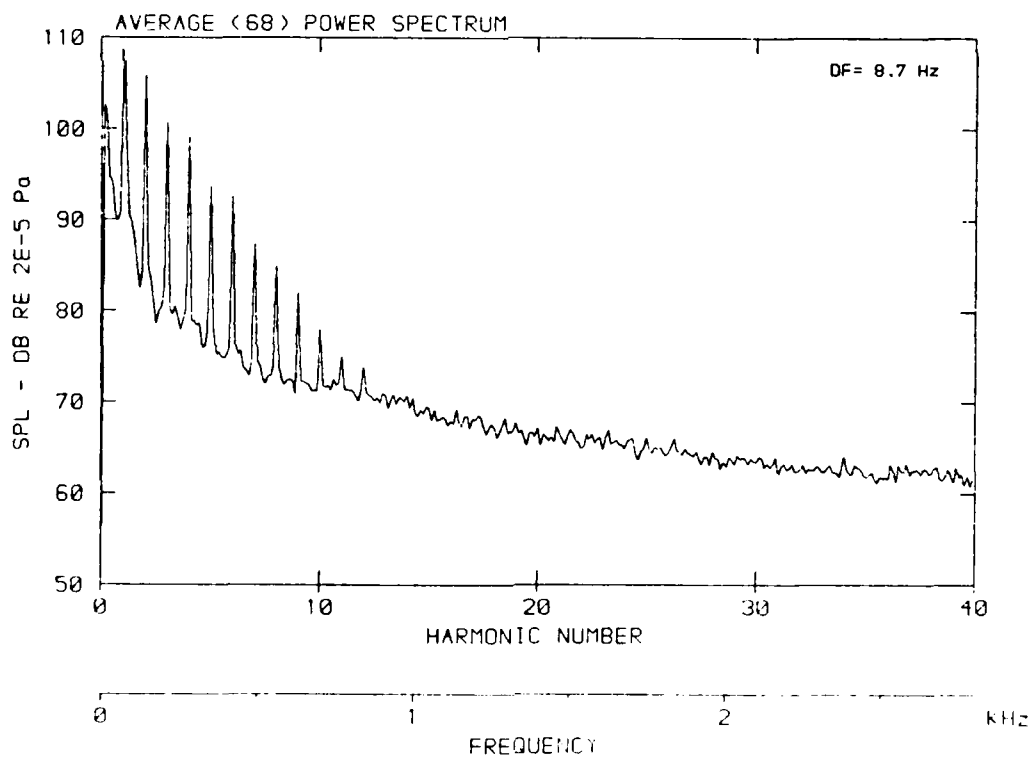
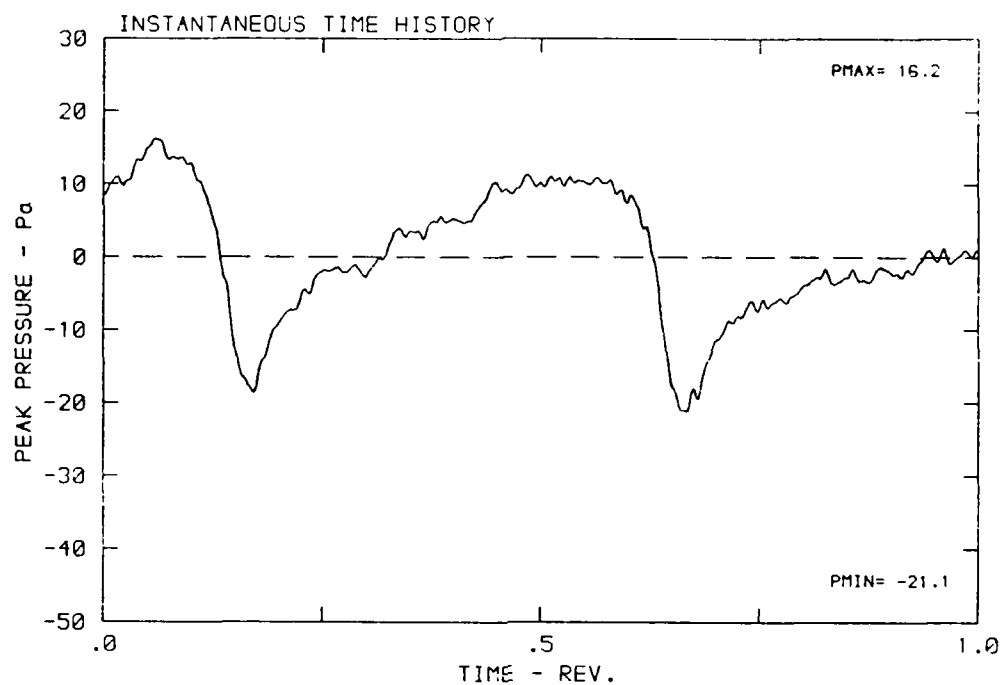
DATA POINT: AC-1 RUN: 85 MP: 3

β : 21.6° MH: .6760 n: 2100 rpm v/u : .242 ϕ : .0° T: 287.7 K



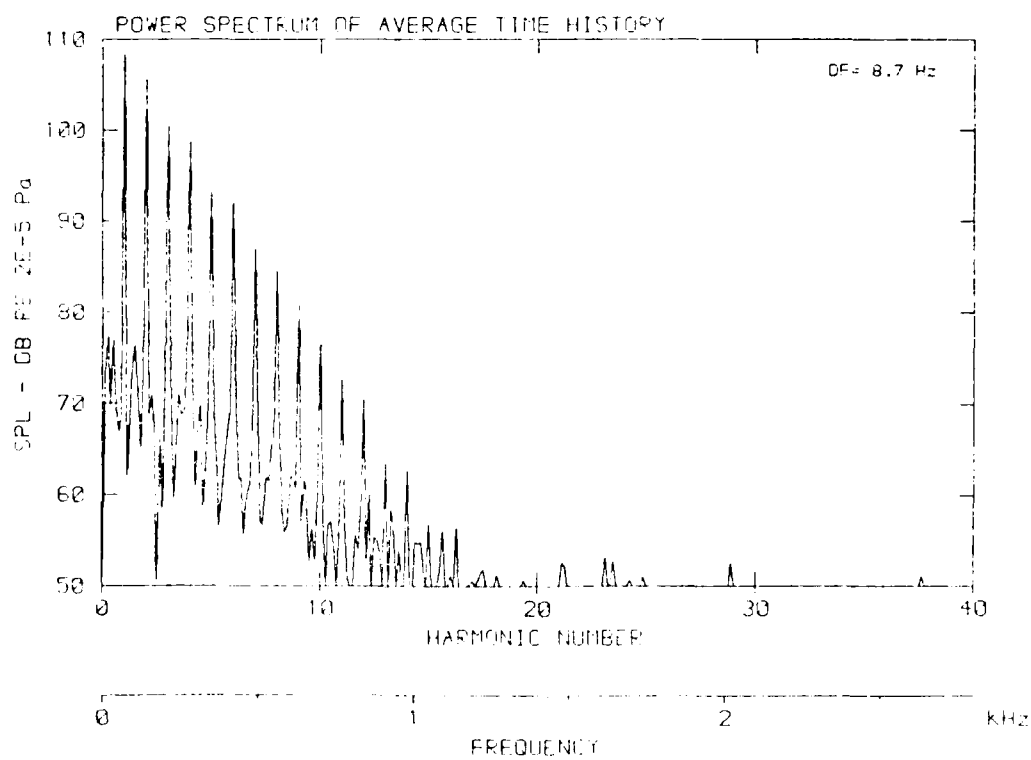
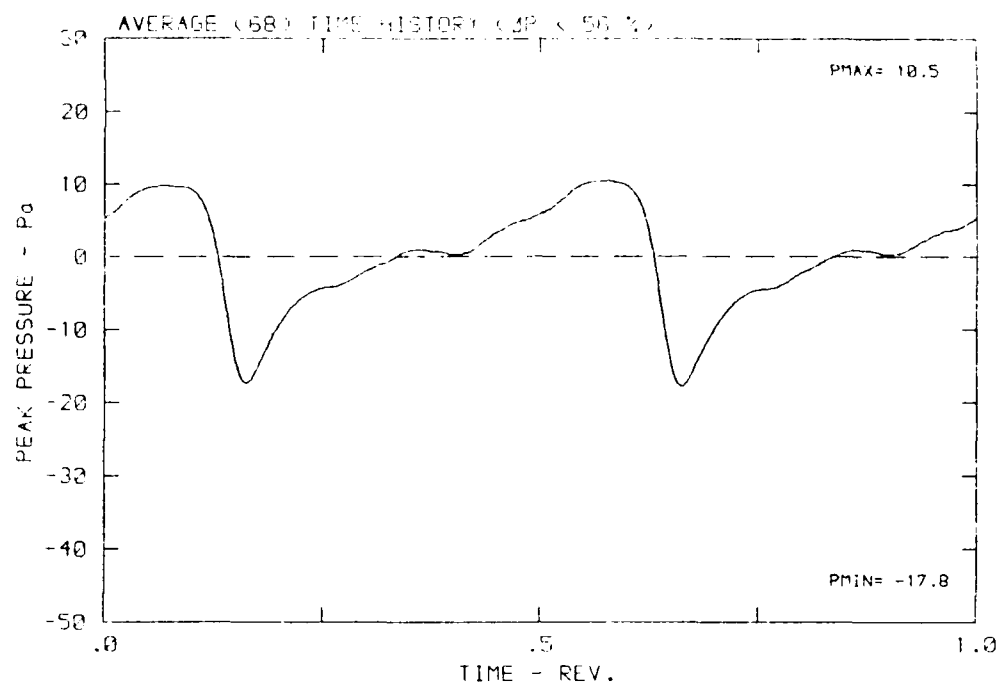
DATA POINT: AC-1 RUN: 85 MP: 4

β : 21.6° MH: .6760 n: 2100 rpm v/u: .2+2 ϕ : .0° T: 287.7 K



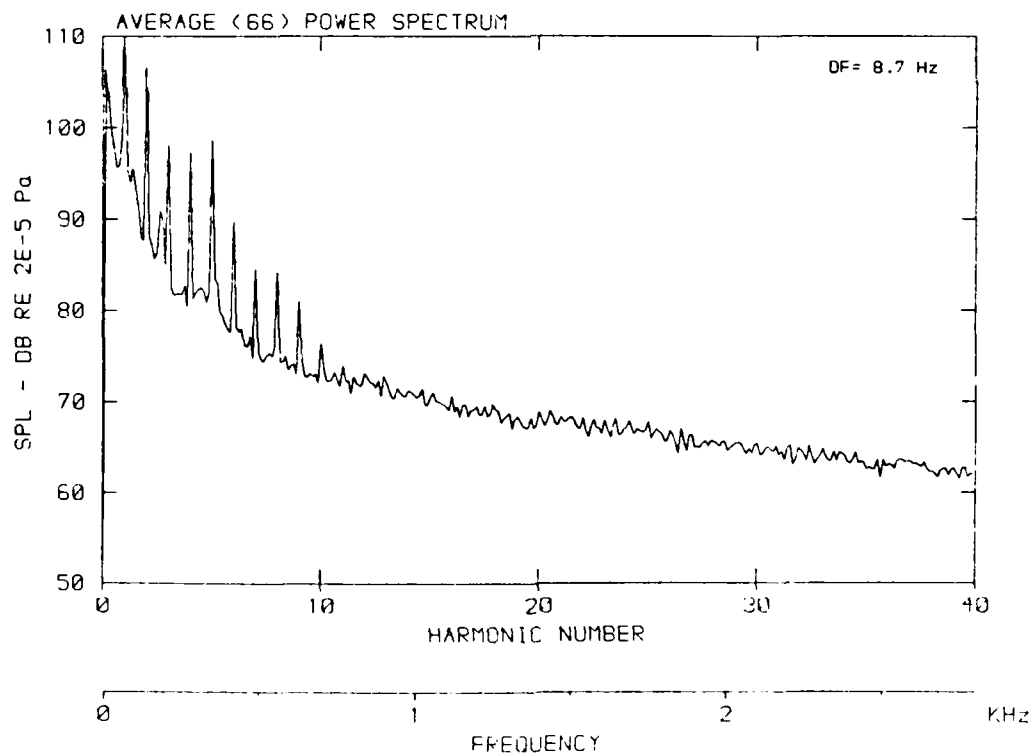
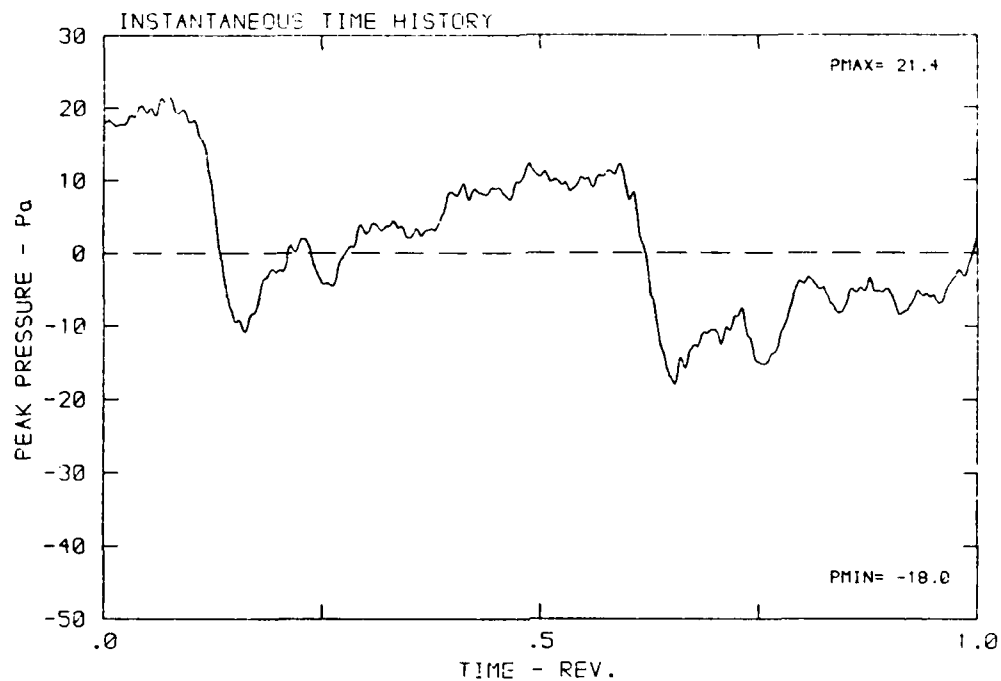
DATA POINT: AC-1 RUN: 85 MP: 4

β : 21.6° MH: .6760 n: 2100 rpm ν : .242 ϕ : .0° T: 287.7 K



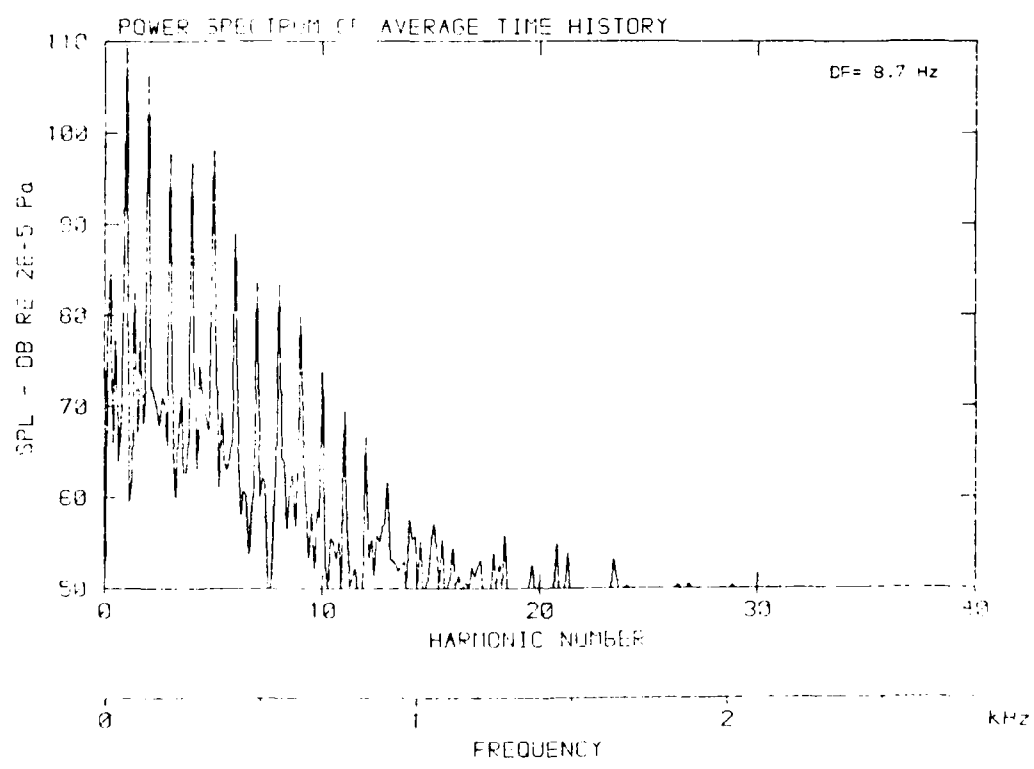
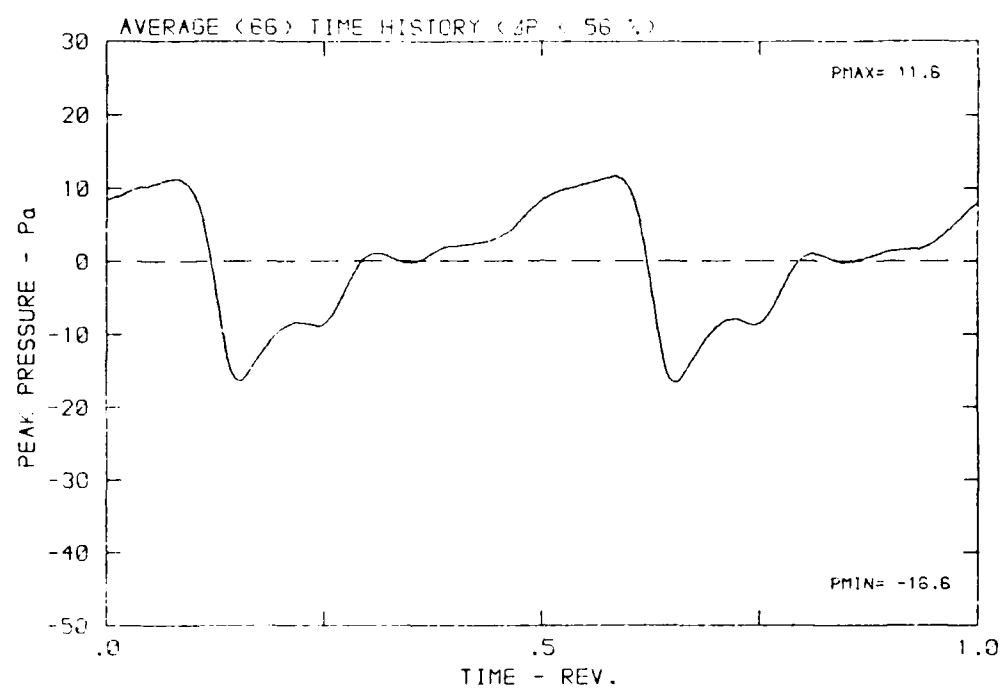
DATA POINT: AC-1 RUN: 85 MP: 5

β : 21.6° MH: .6760 n: 2100 rpm ν : .242 ϕ : .0° T: 297.7 K



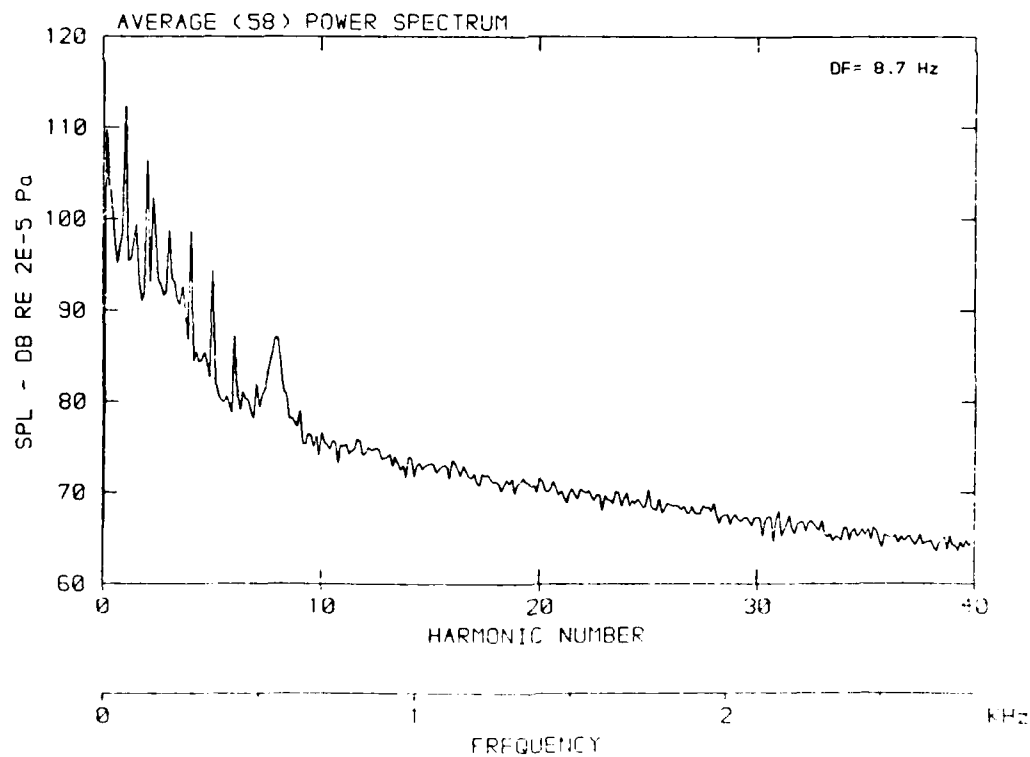
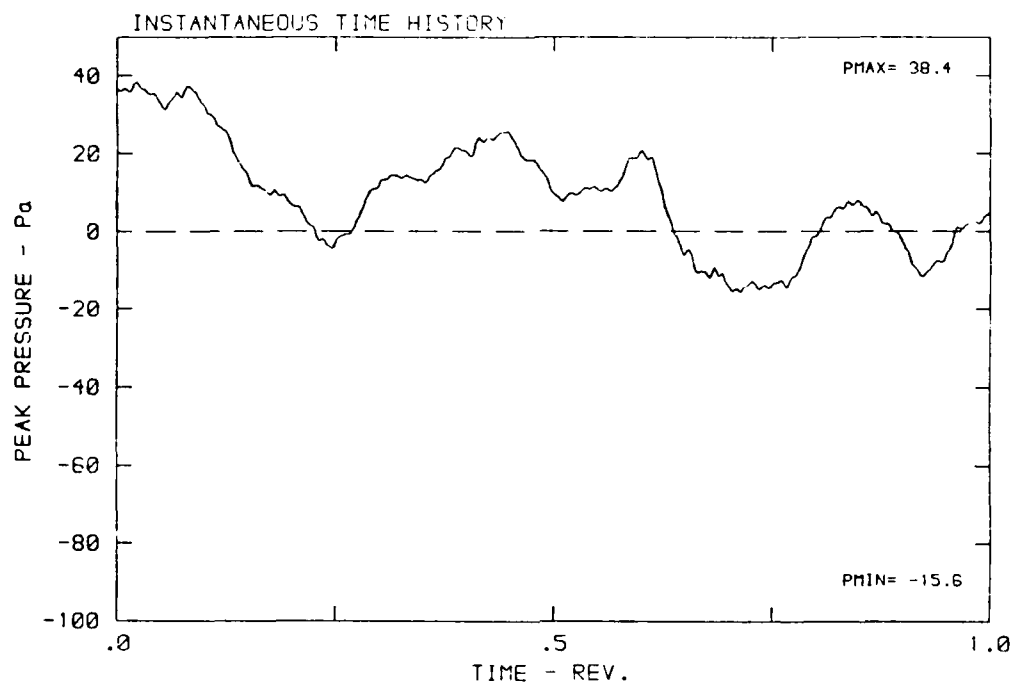
DATA POINT: AC-1 RUN: 85 MP: 5

β : 21.6° MH: .6760 n: 2100 rpm v/u : .242 ϕ : .0° T: 287.7 K



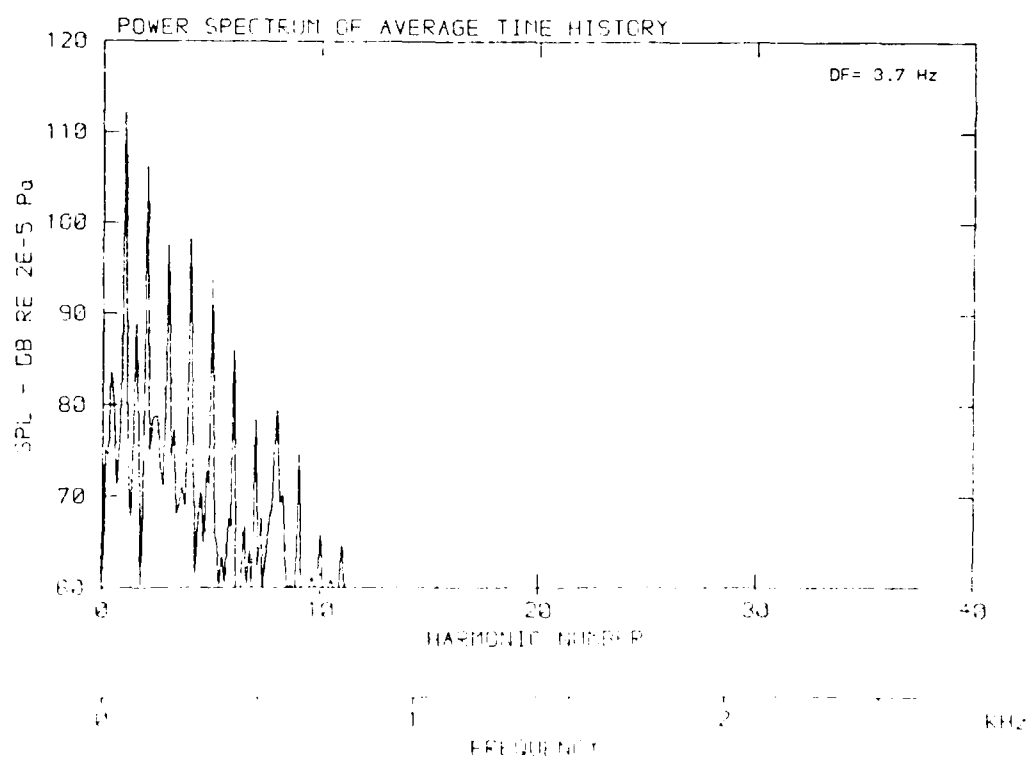
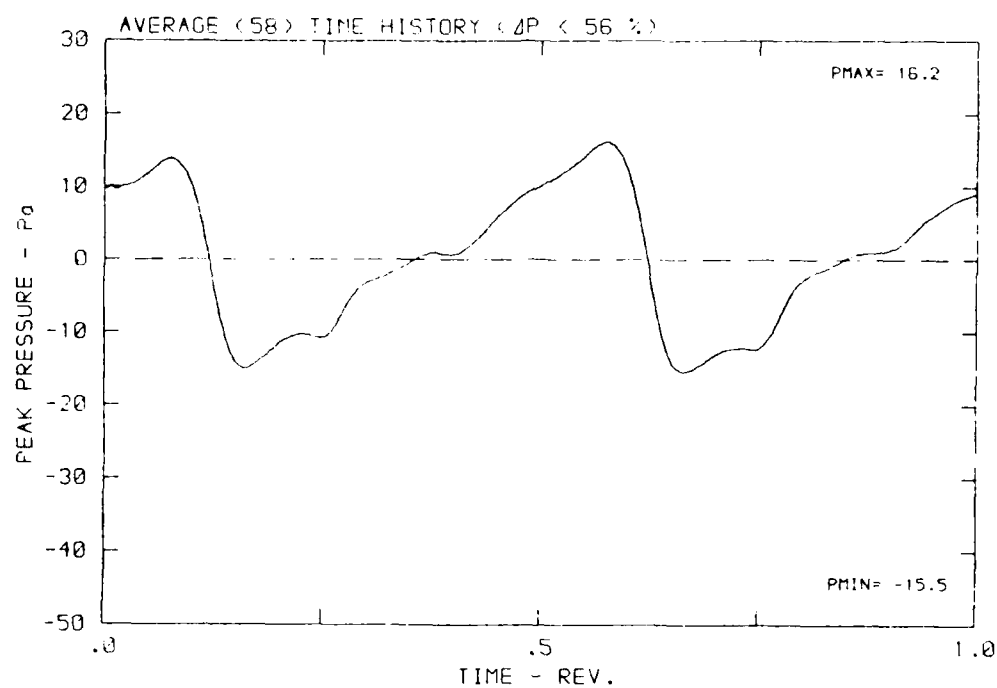
DATA POINT: AC-1 RUN: 85 MP: 6

β : 21.6° MH: .6760 n: 2100 rpm v/u : .242 ϕ : .0° T: 297.7 K



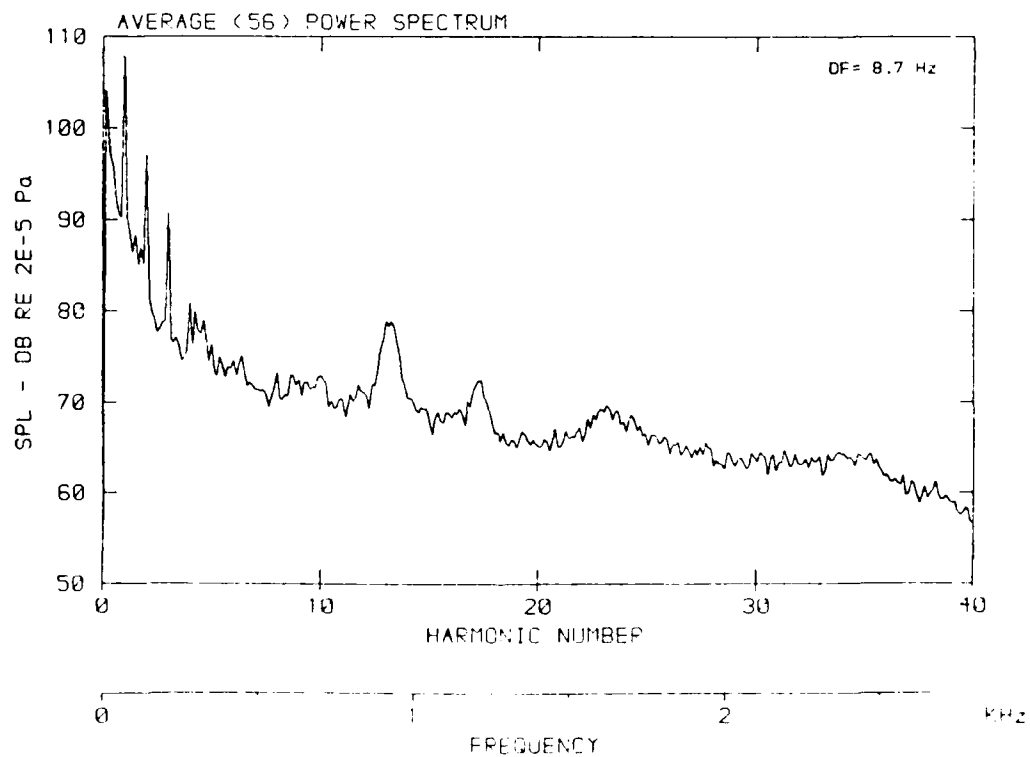
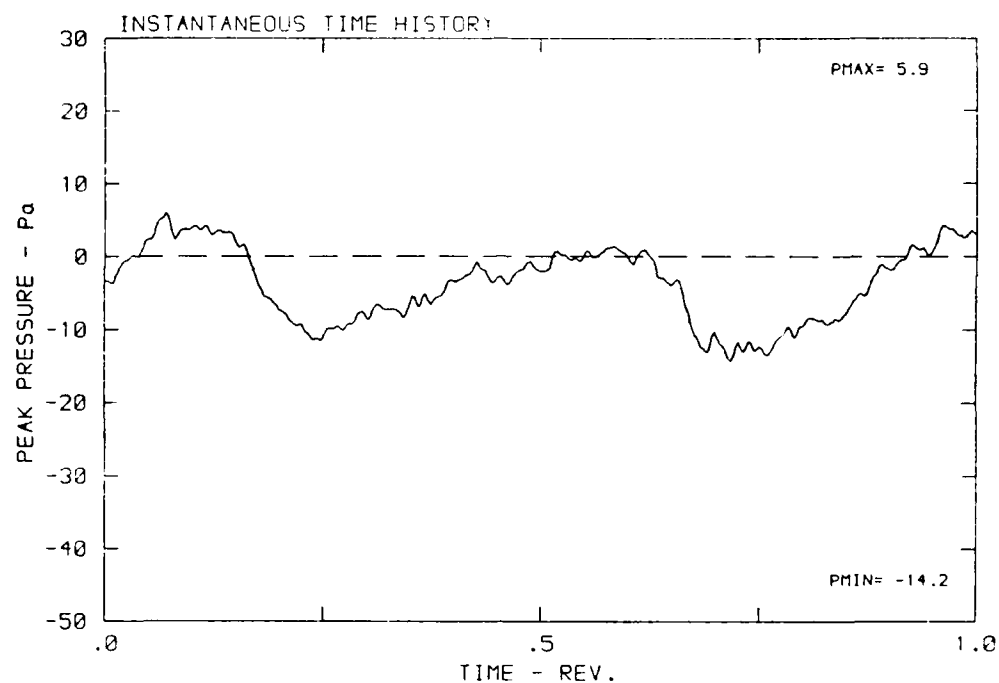
DATA POINT: AC-1 RUN: 85 MP: 6

β : 21.6° MH: .6760 n: 2100 rpm v/u : .242 ϕ : .0° T: 287.7 K



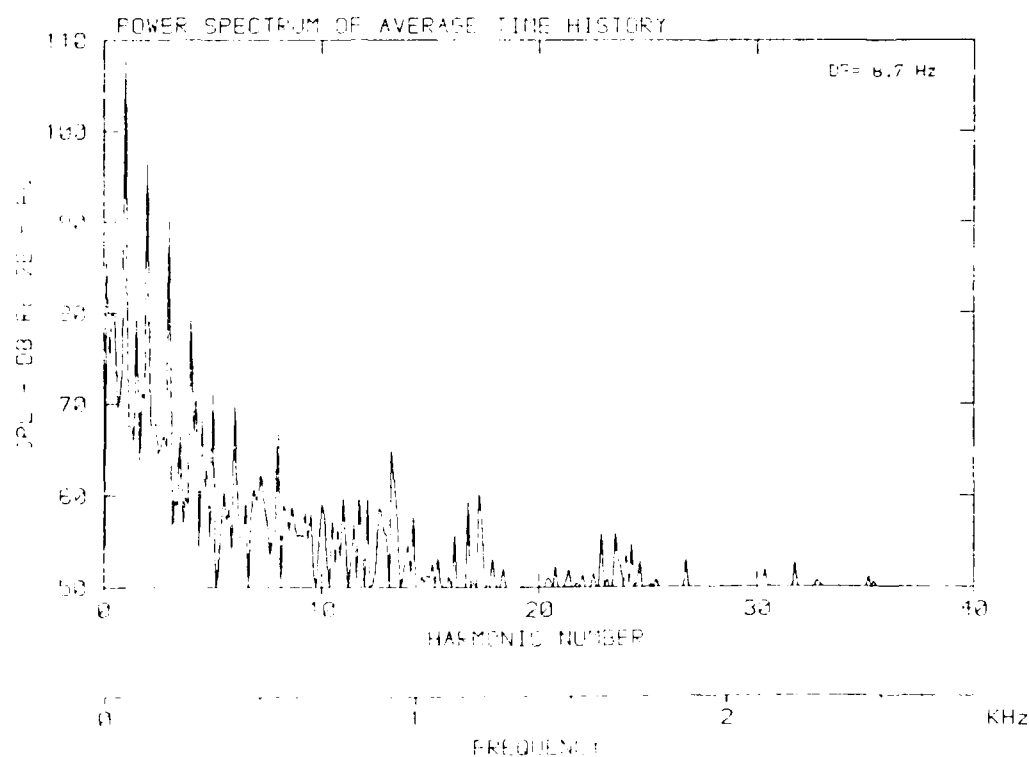
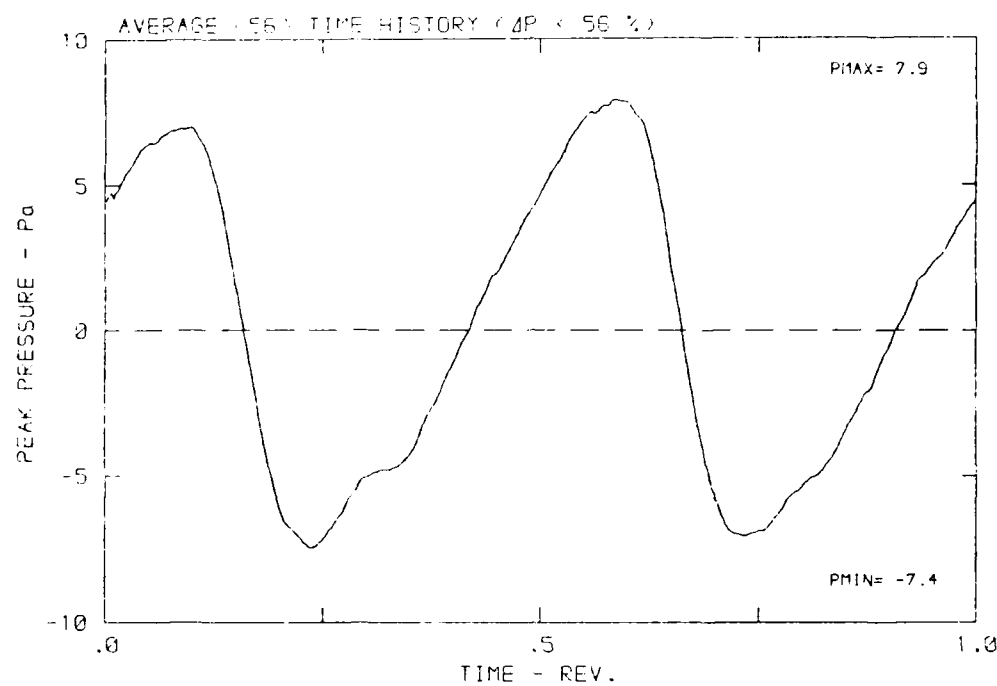
DATA POINT: AC-1 RUN: 85 MP: 7

β : 21.6° MH: .6760 n: 2100 rpm vzu: .242 ϕ : .0° T: 262.7 K



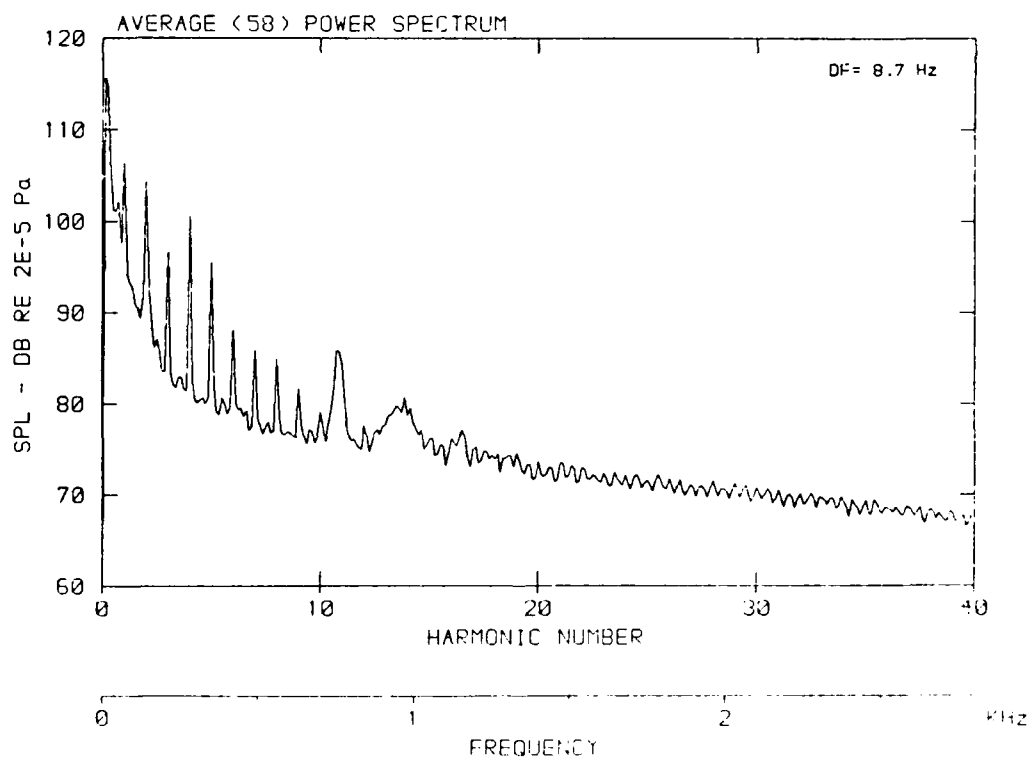
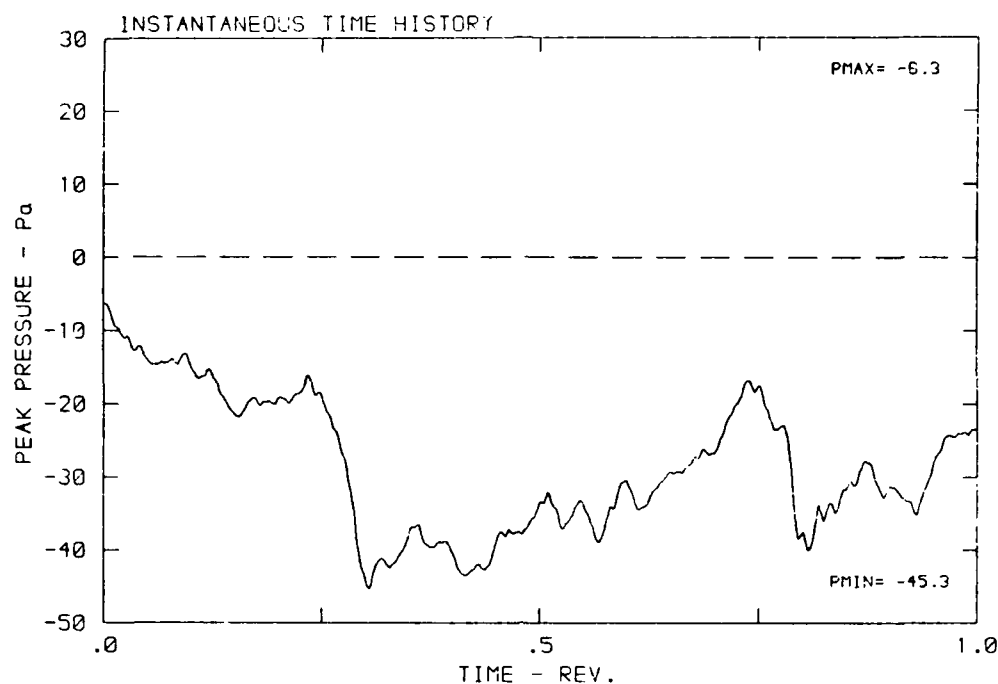
DATA POINT: AC-1 RUN: 85 MP: 7

β : 21.5° MH: .6760 n: 2100 rpm v/u: .242 ϕ : .0° T: 287.7 K



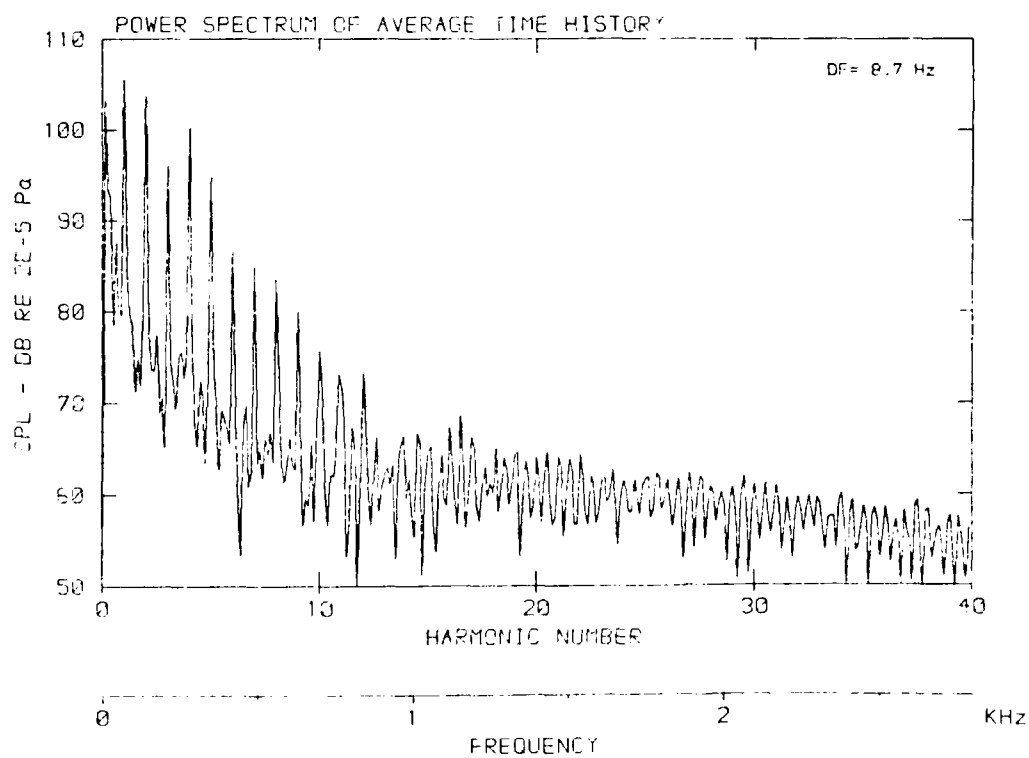
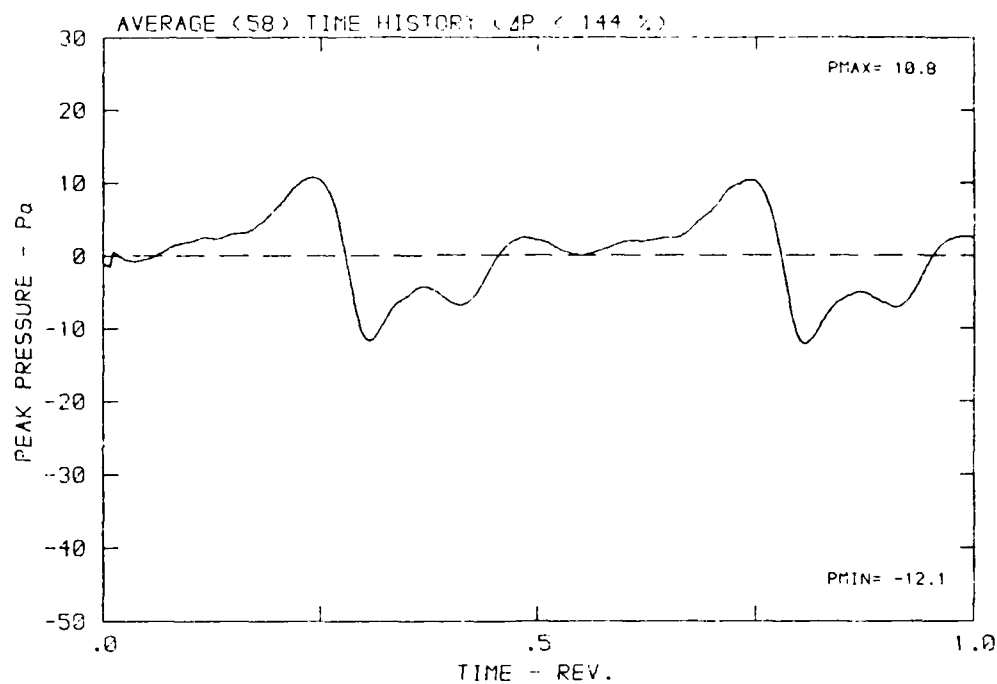
DATA POINT: AC-1 RUN: 85 MP: 9

β : 21.6° MH: .6760 n: 2100 rpm v/u : .242 ϕ : .0° T: 287.7 K



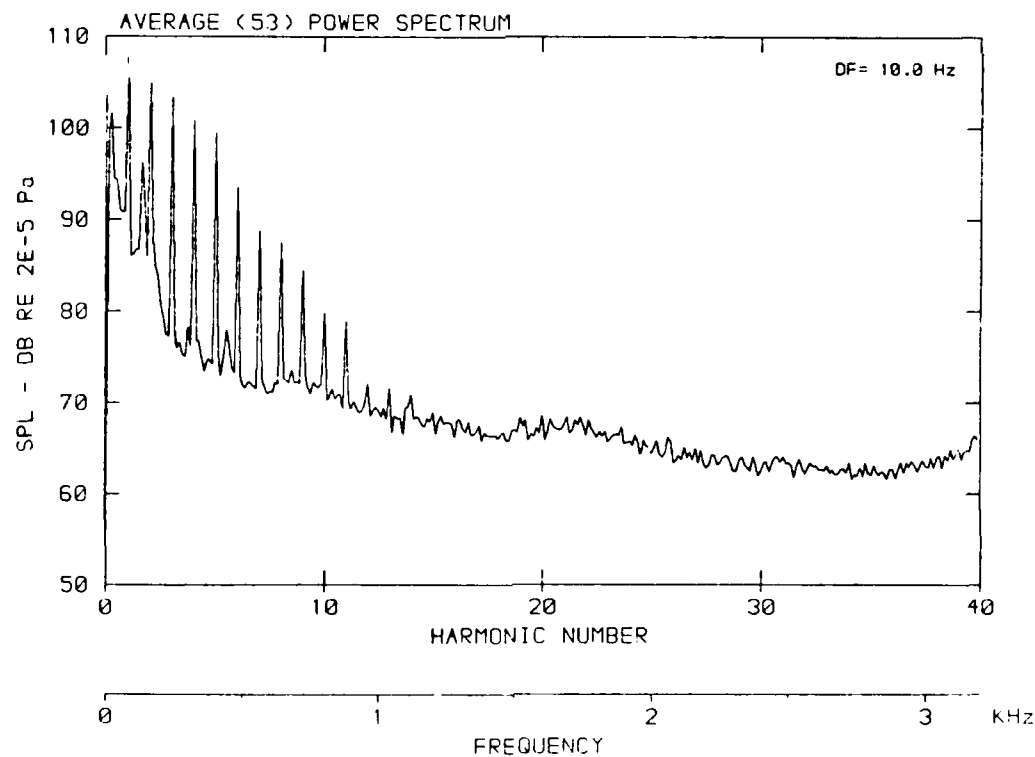
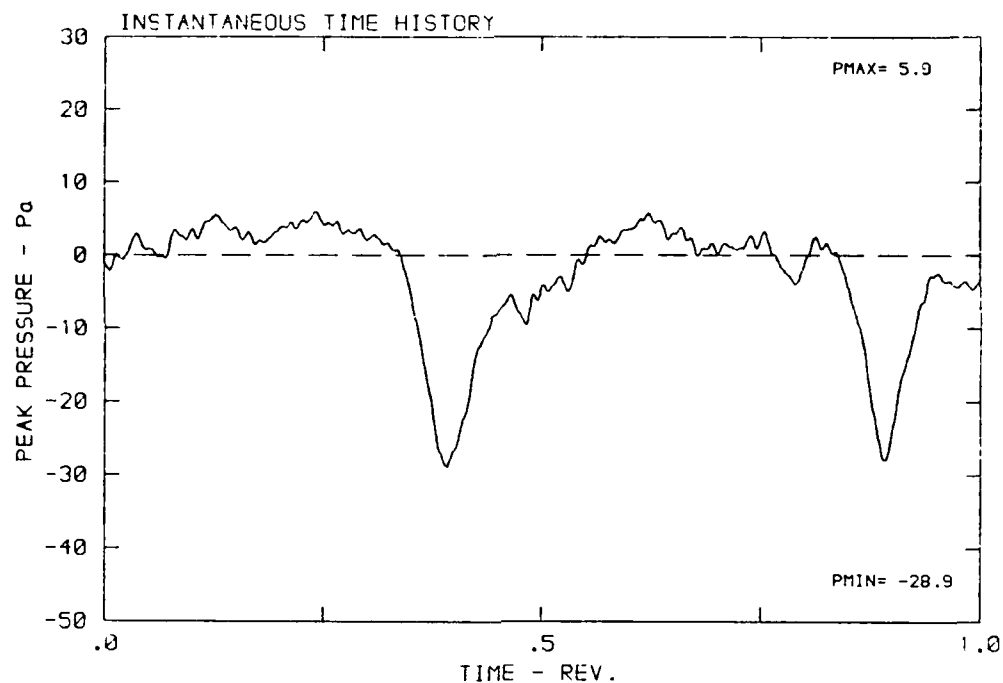
DATA POINT: AC-1 RUN: 85 MP: 9

β : 21.6° MH: .6760 n: 2100 rpm v/u : .242 ϕ : .0° T: 287.7 K



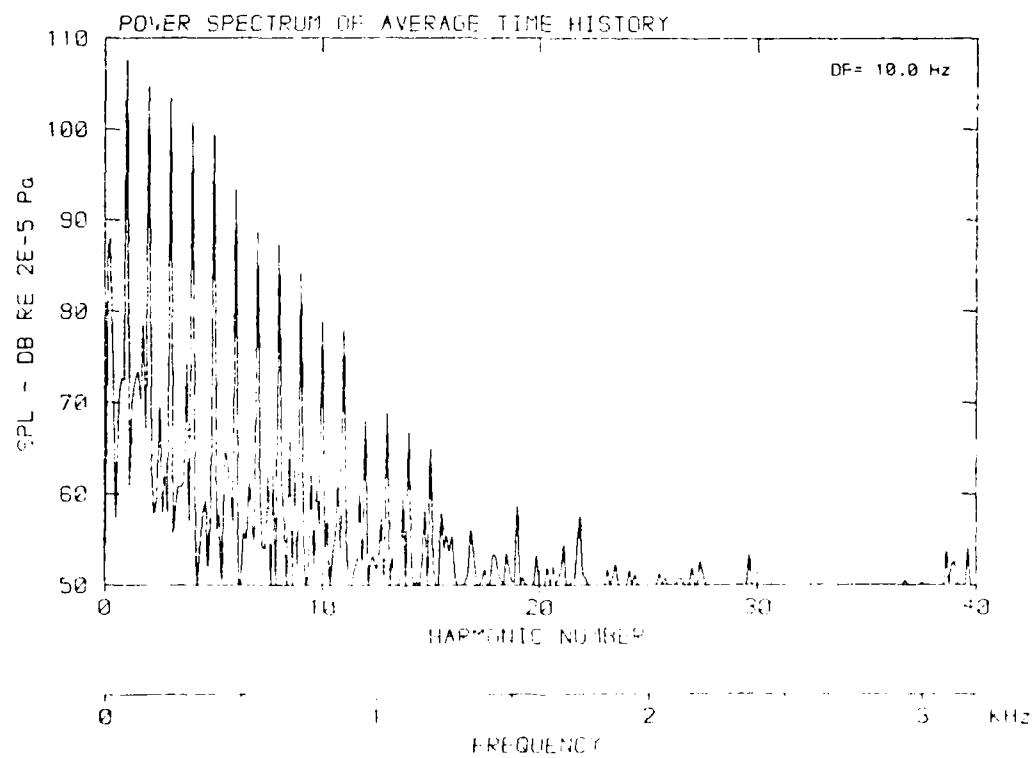
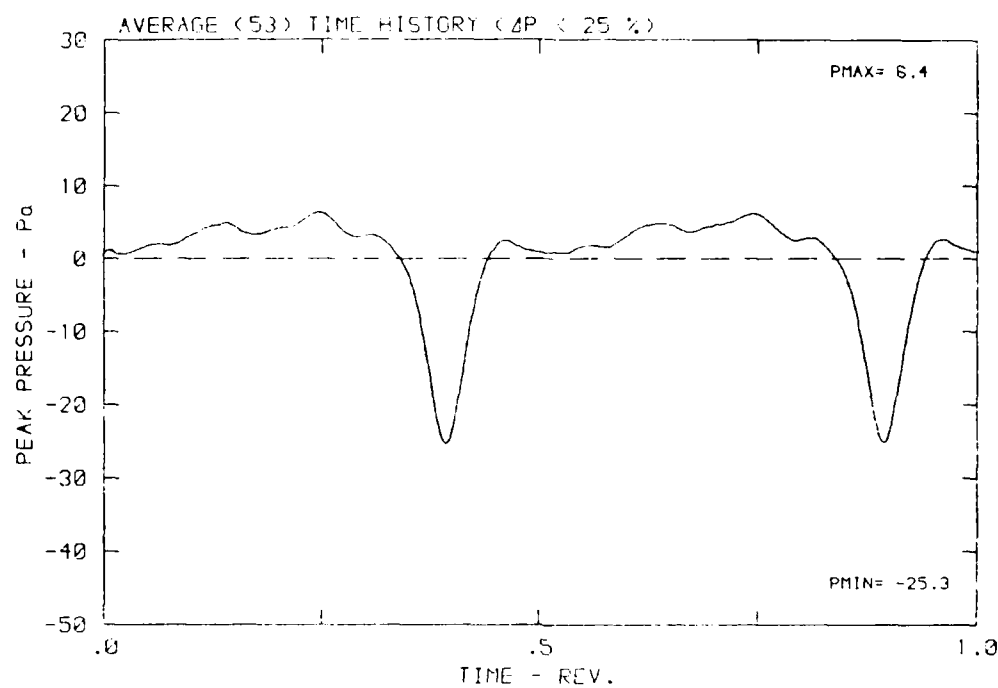
DATA POINT: AC-2 RUN: 84 MP: 1

β : 21.6° MH: .7719 n: 2400 rpm v/u : .240 ϕ : .0° T: 287.9 K



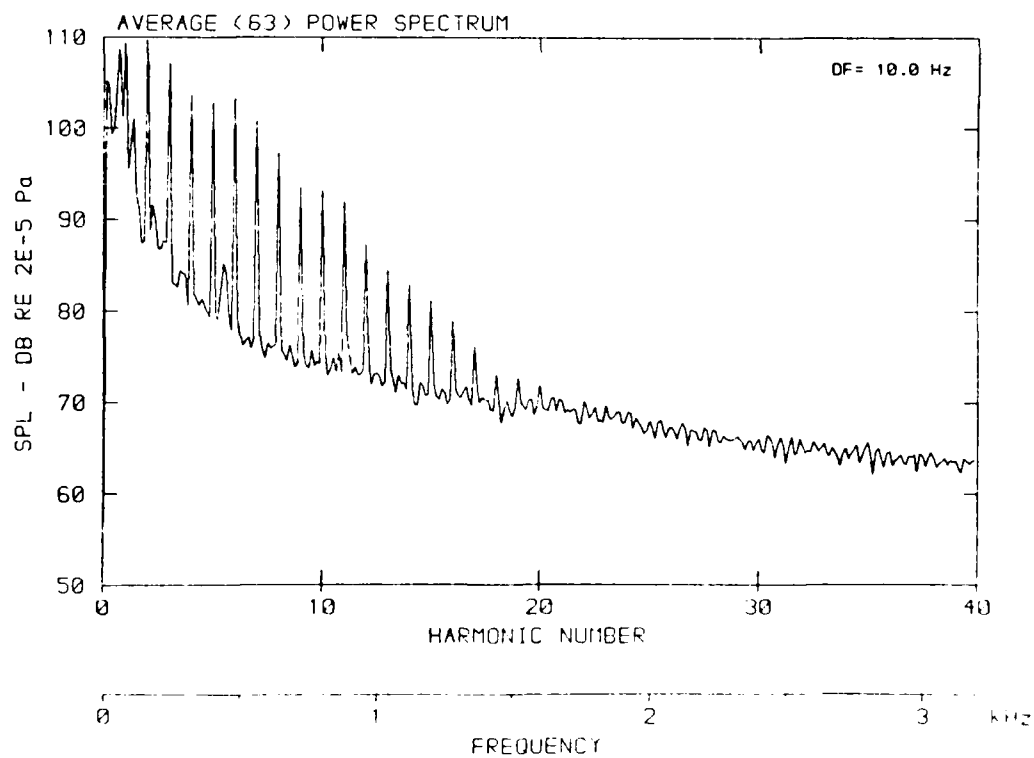
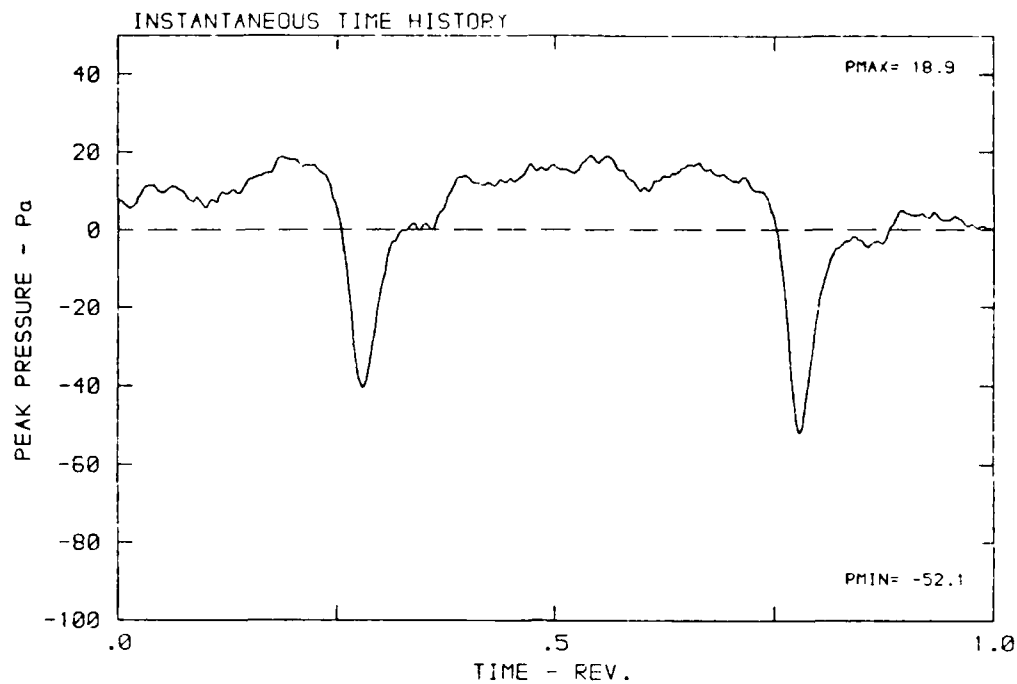
DATA POINT: AC-2 RUN: 84 MP: 1

β : 21.6° MH: .7719 n: 2400 rpm v/u : .240 ϕ : .0° T: 287.9 K



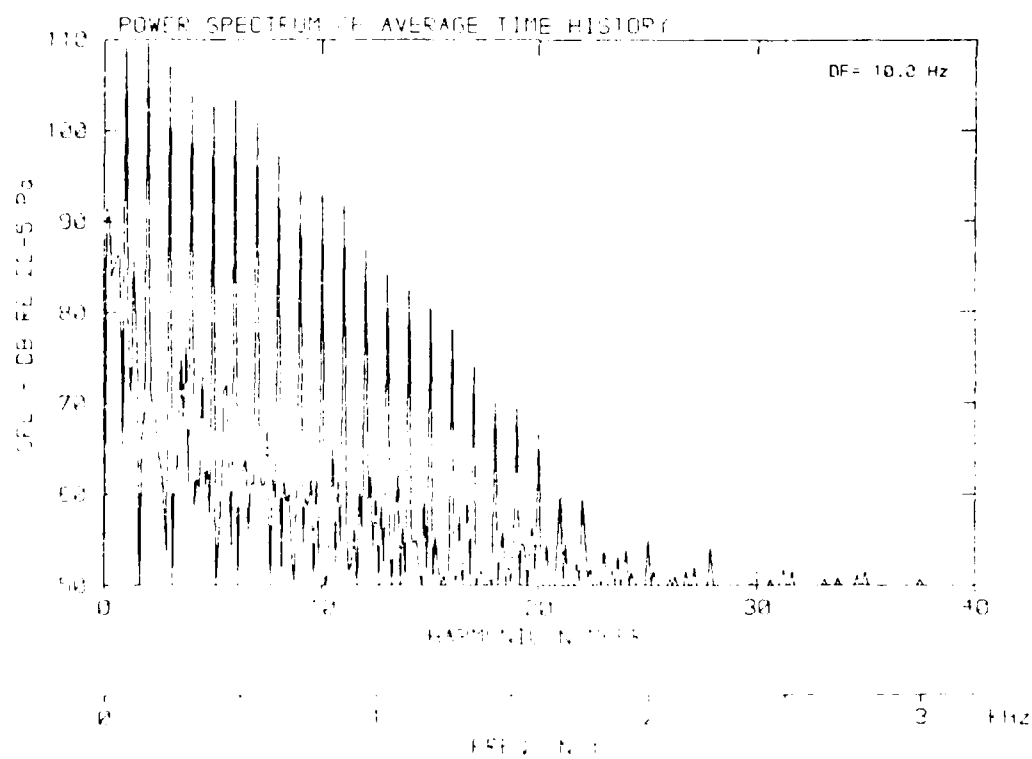
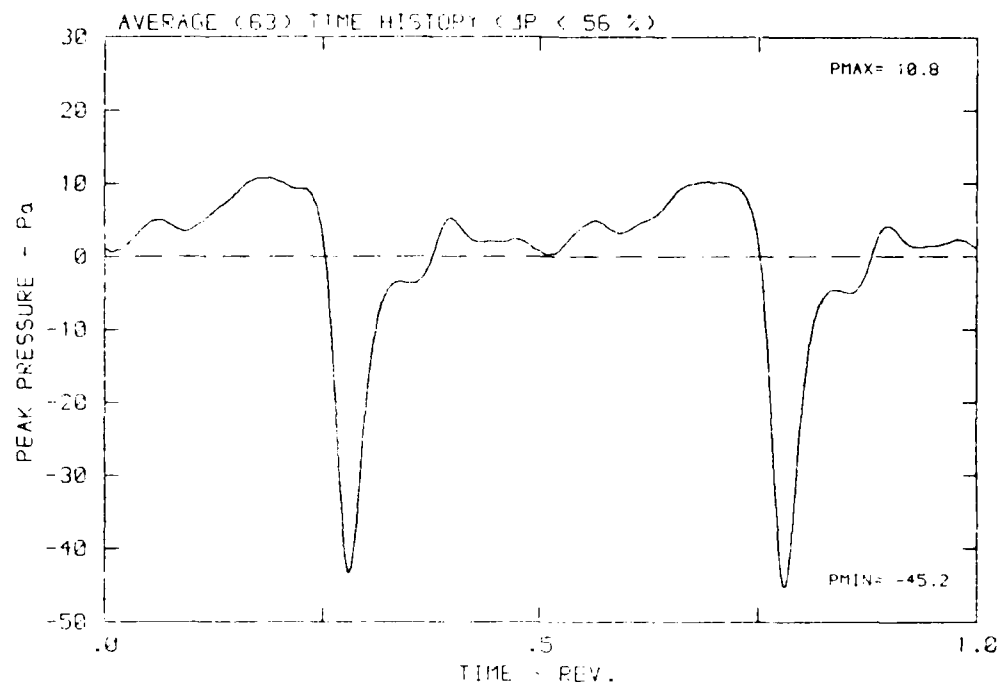
DATA POINT: AC-2 RUN: 84 MP: 2

β : 21.6° MH: .7719 n: 2400 rpm v/u : .240 ϕ : .0° T: 157.0 s



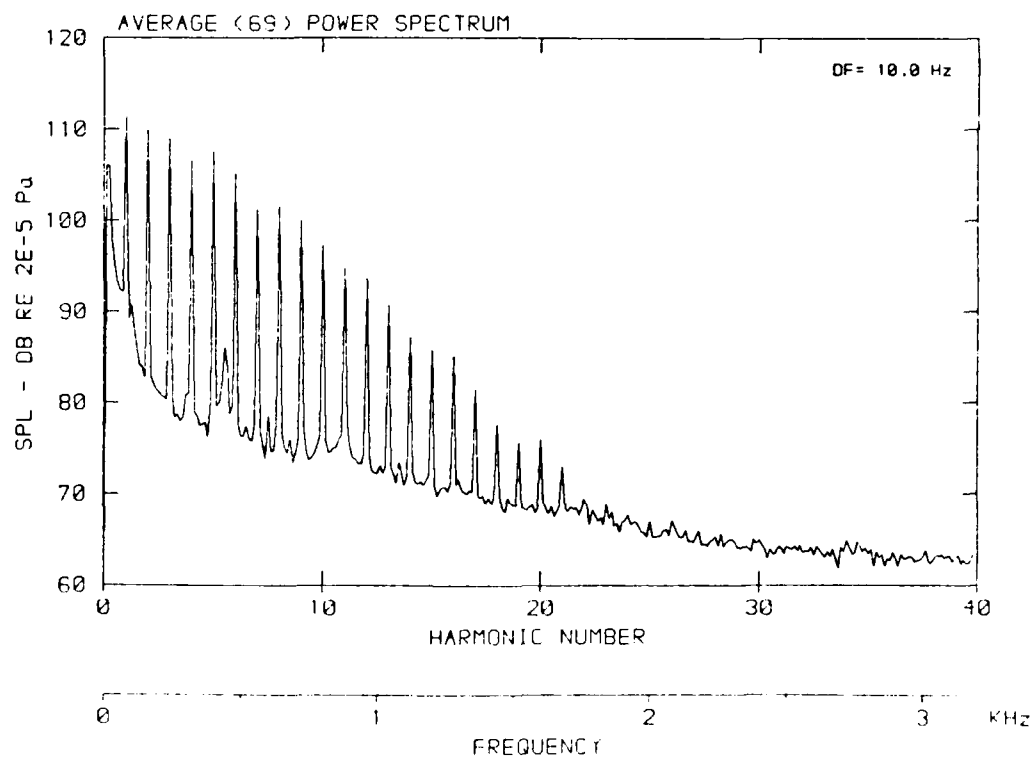
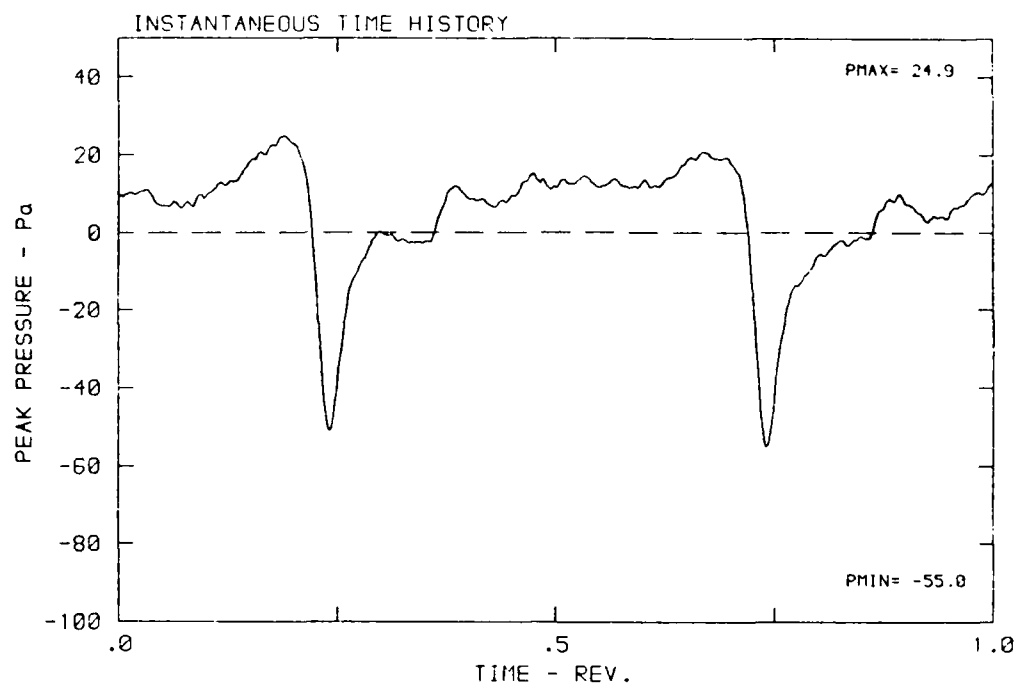
DATA POINT: AC-2 RUN: 84 MP: 2

β : 21.6° MH: .7719 n: 2400 rpm v/u: .240 ϕ : .0° T: 287.9 K



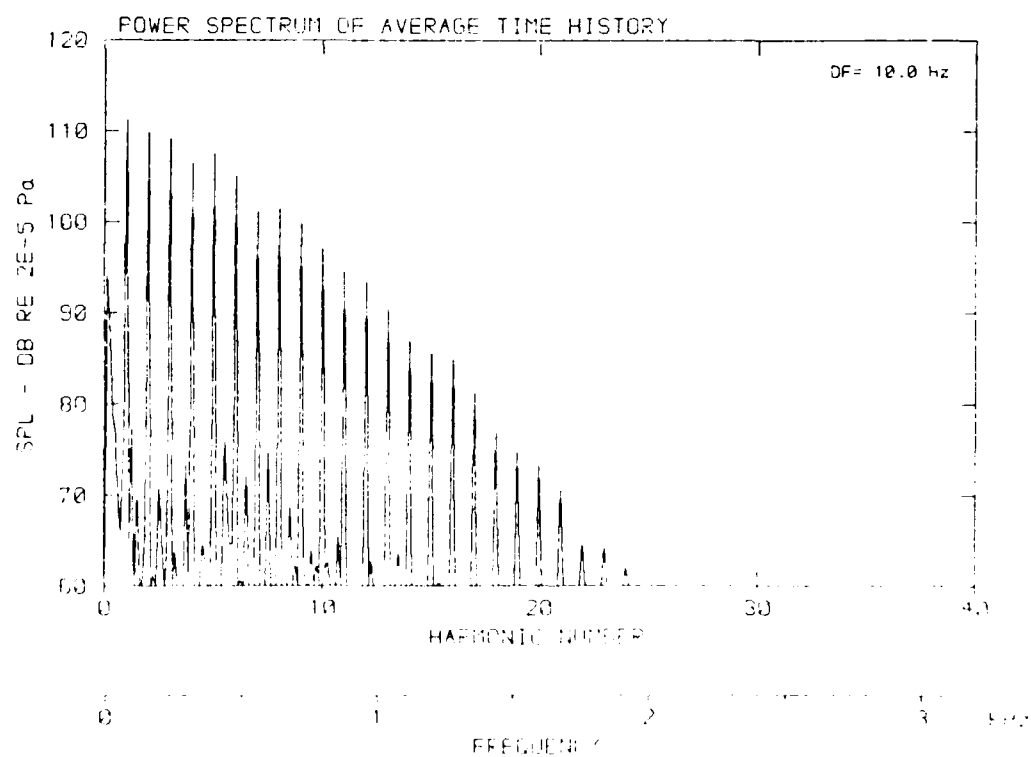
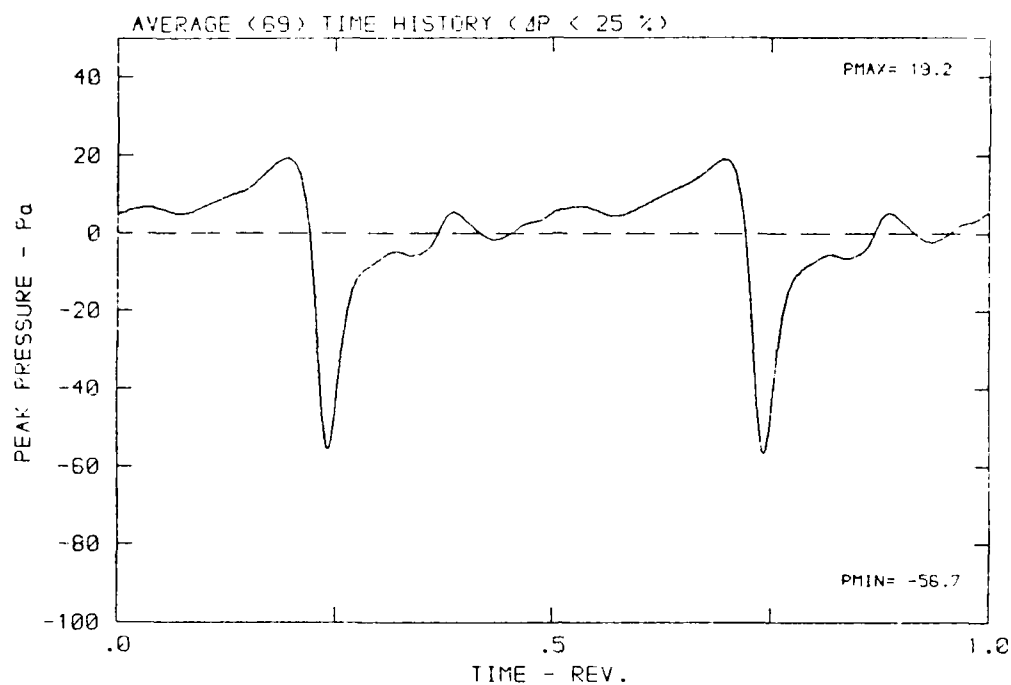
DATA POINT: AC-2 RUN: 84 MP: 3

β : 21.6° NH: .7719 n: 2400 rpm ν /u: .240 ϕ : .0° T: 297.9 K



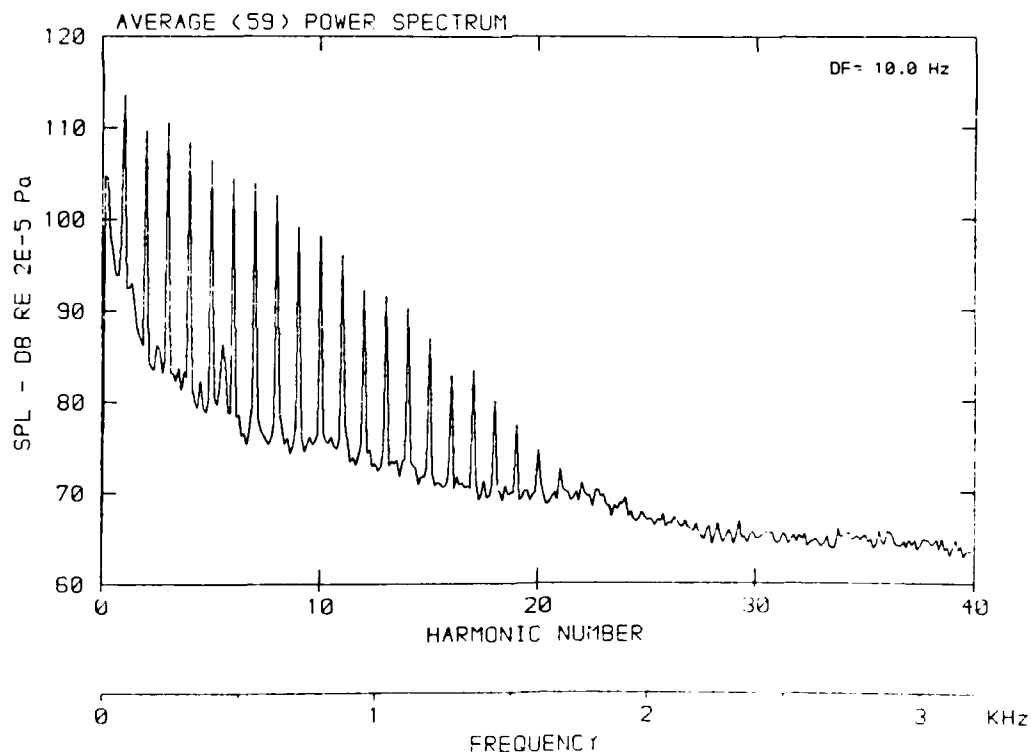
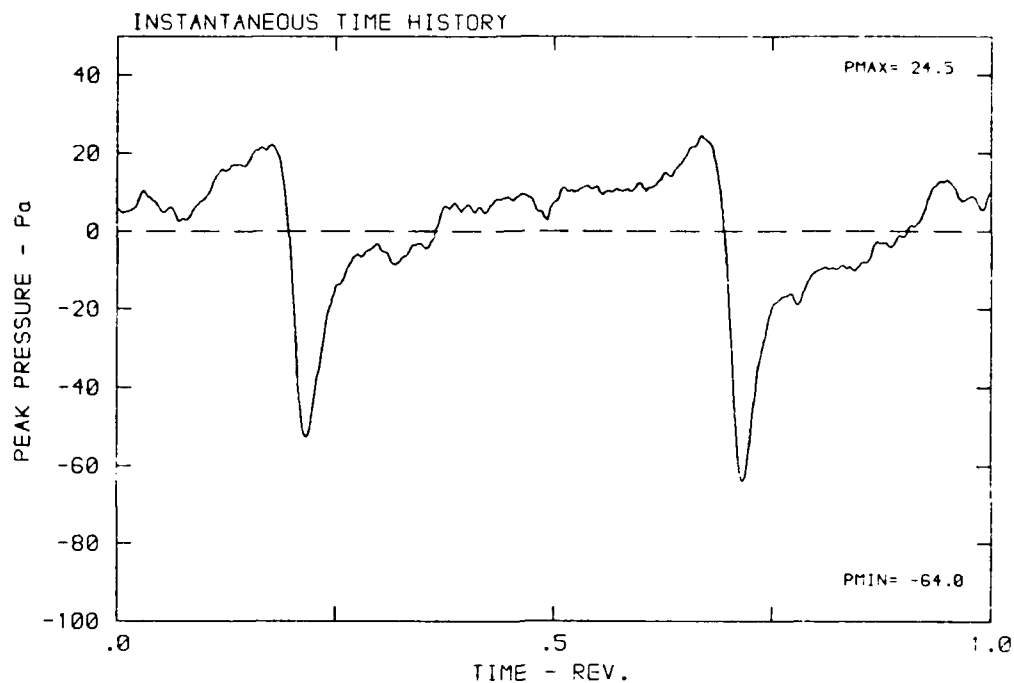
DATA POINT: AC-2 RUN: 84 MP: 3

β : 21.6° MH: .7719 n: 2400 rpm v/u: .240 ϕ : .0° T: 287.9 K



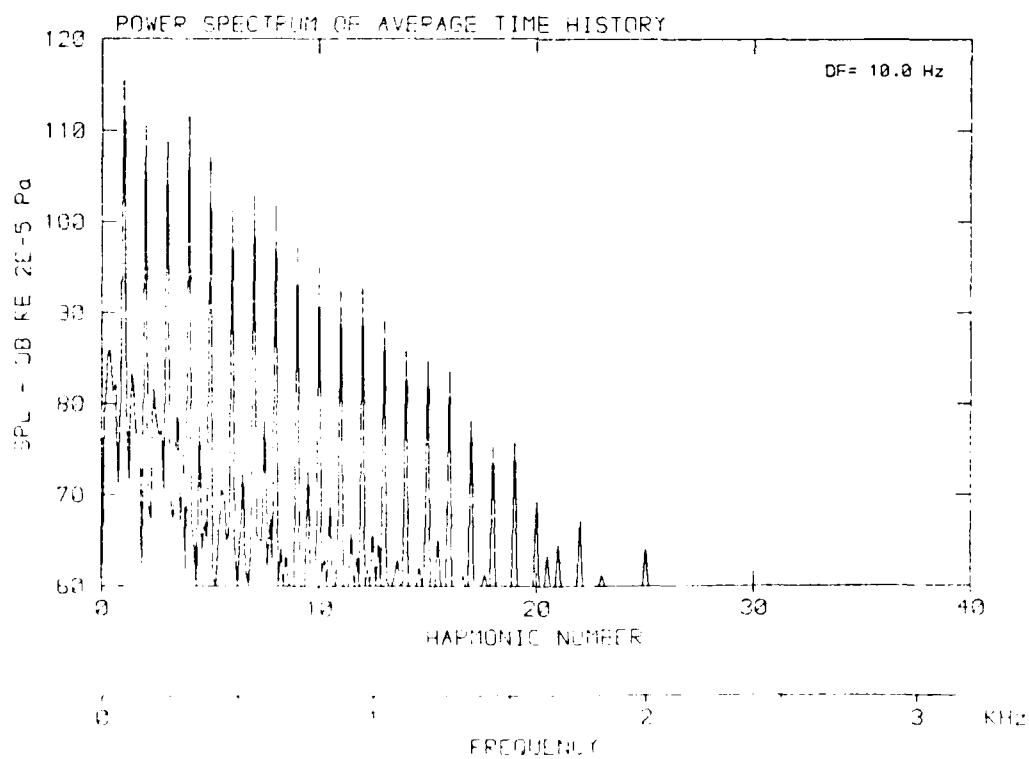
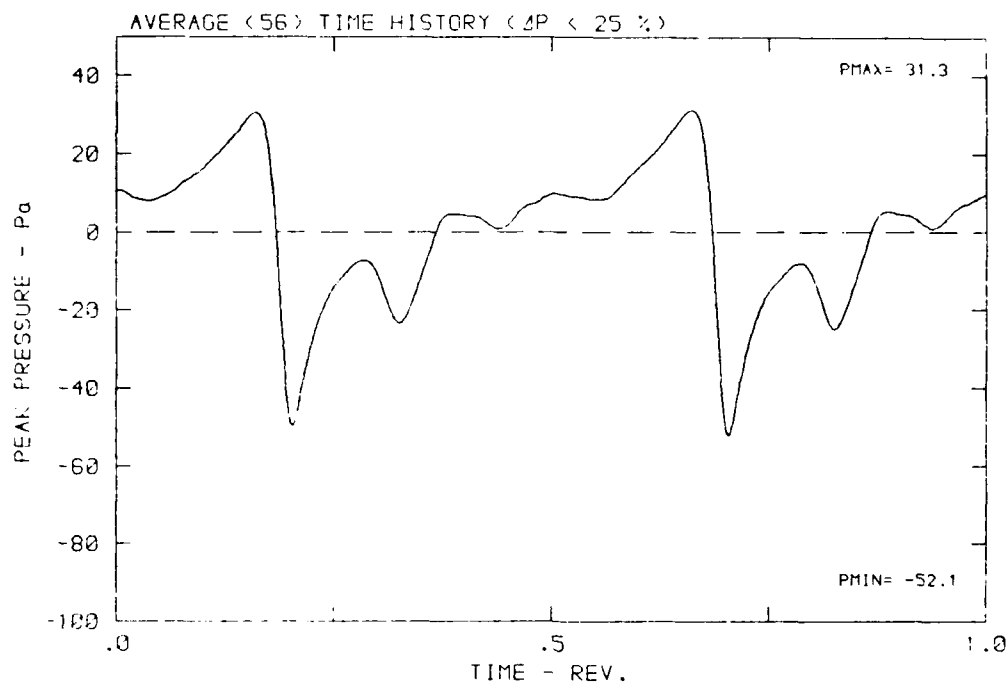
DATA POINT: AC-2 RUN: 84 MP: 4

β : 21.6° MH: .7719 n: 2400 rpm v/u : .243 ϕ : .0° T: 297.9 K



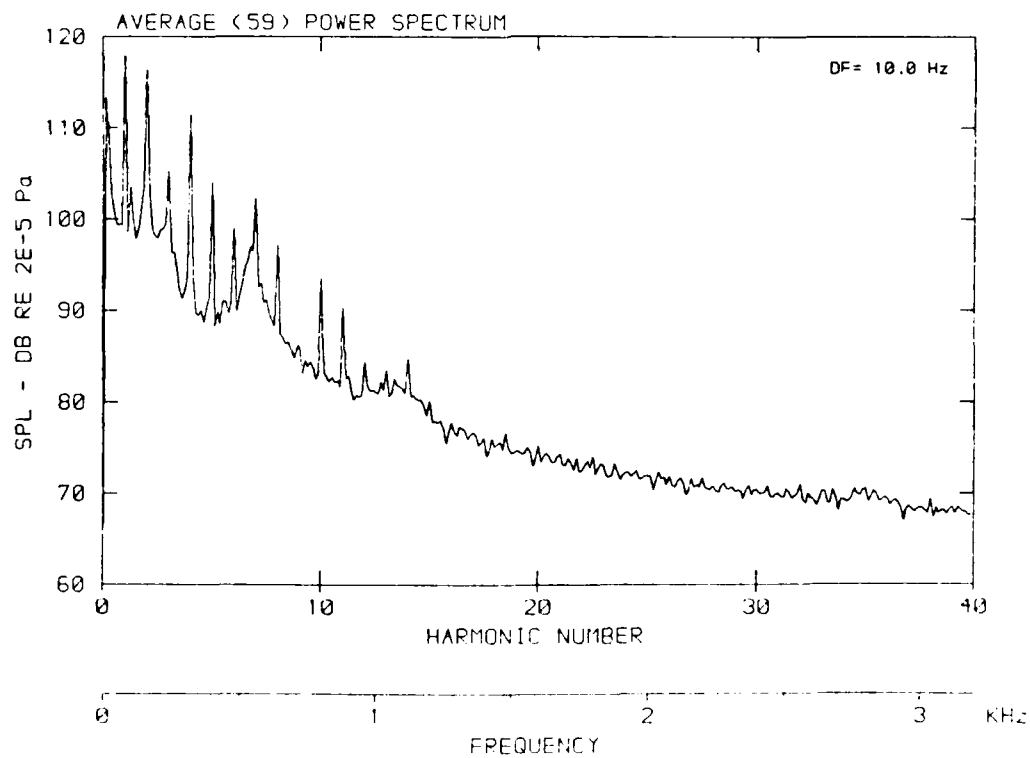
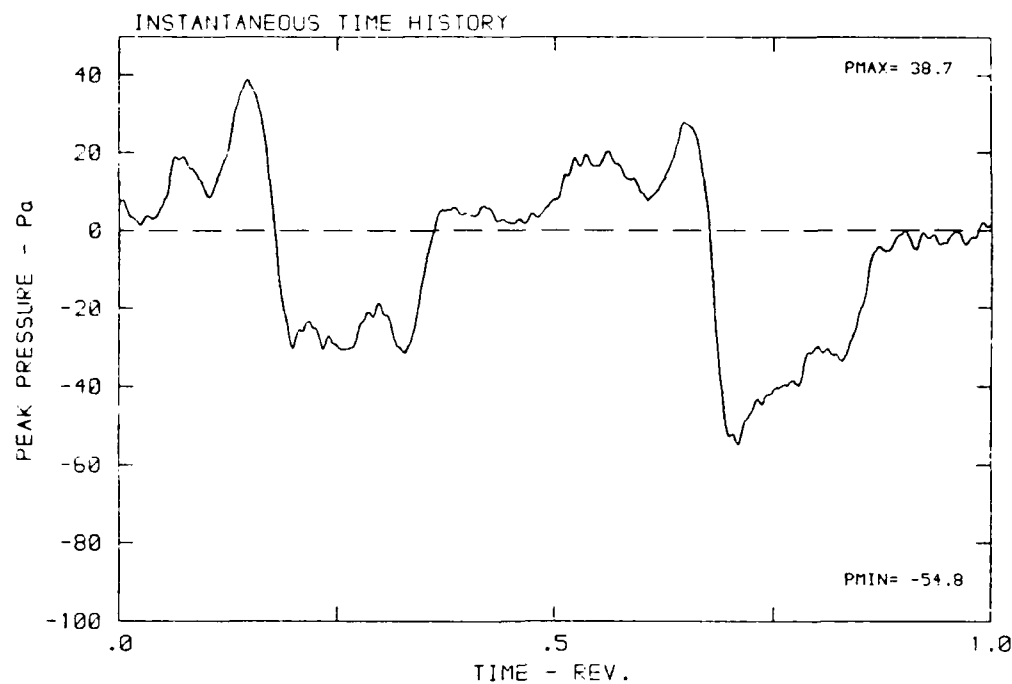
DATA POINT: AC-2 RUN: 84 MP: 5

β : 21.6° MH: .7719 n: 2400 rpm v/u: .240 ϕ : .0° T: 237.9 K



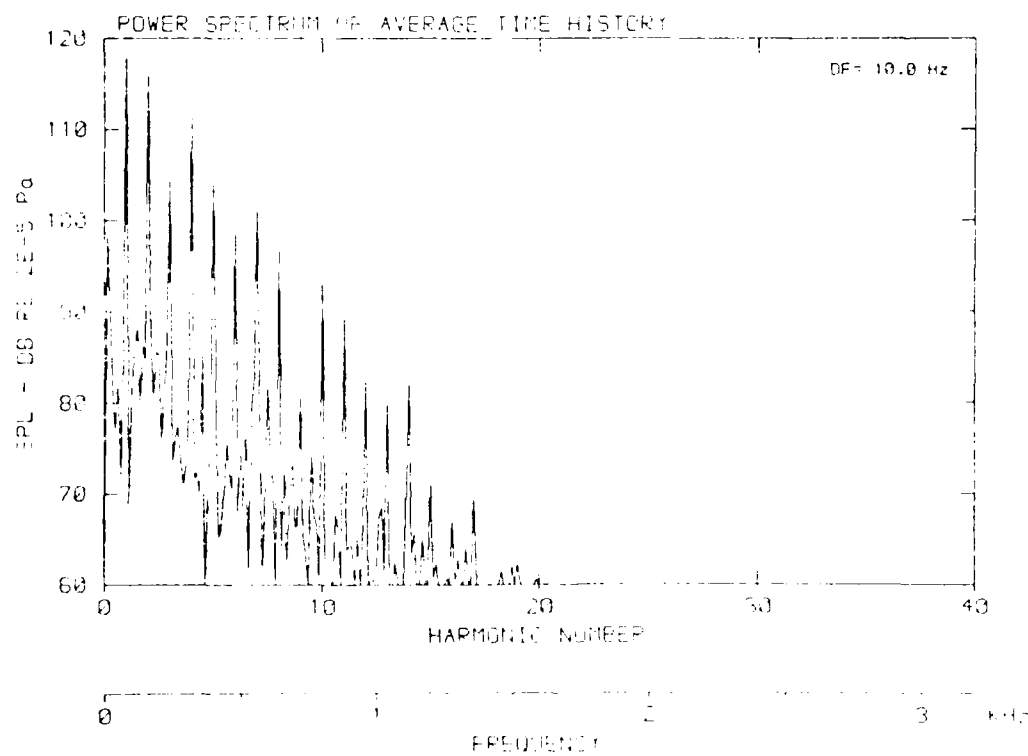
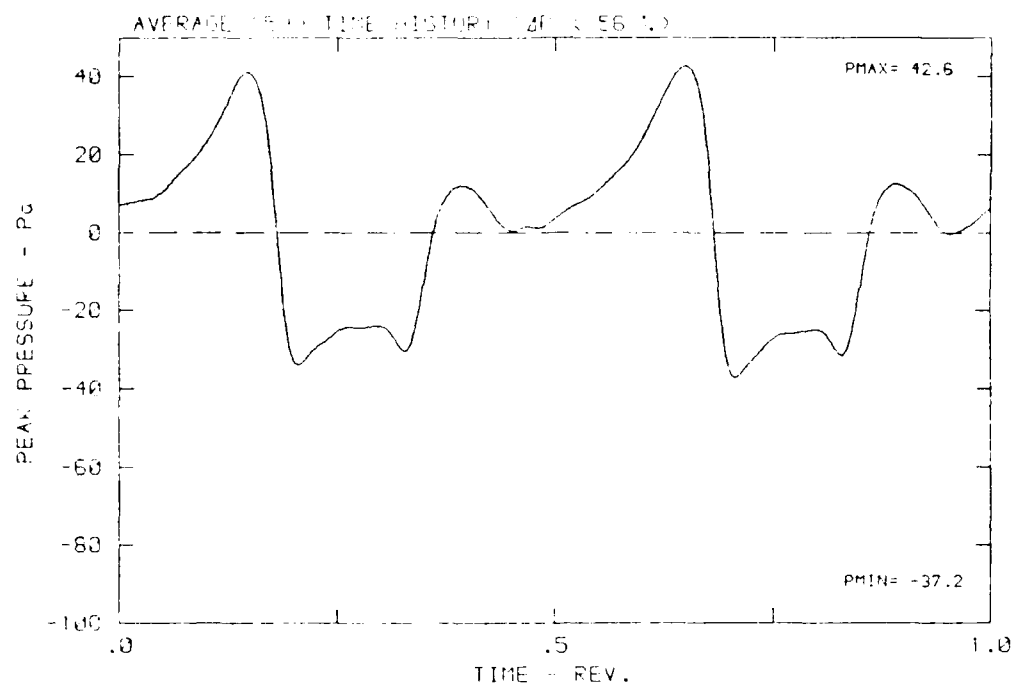
DATA POINT: AC-2 RUN: 84 MP: 6

β : 21.6° MH: .7719 n: 2400 rpm ψ : .040 ϕ : .0° T: 167.0 K



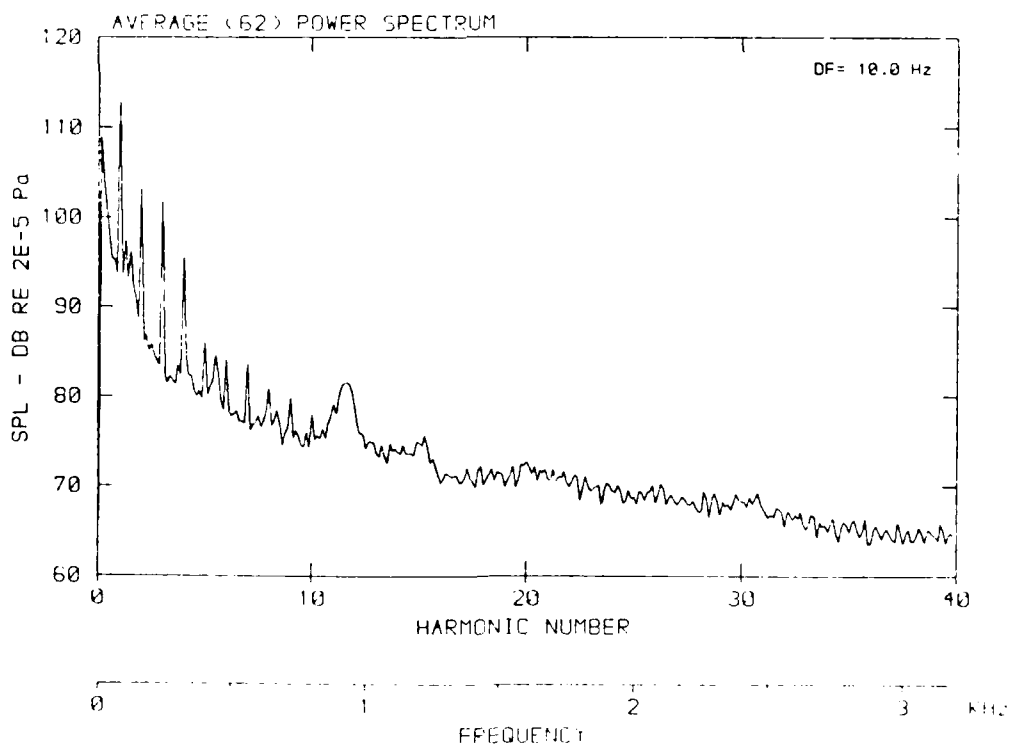
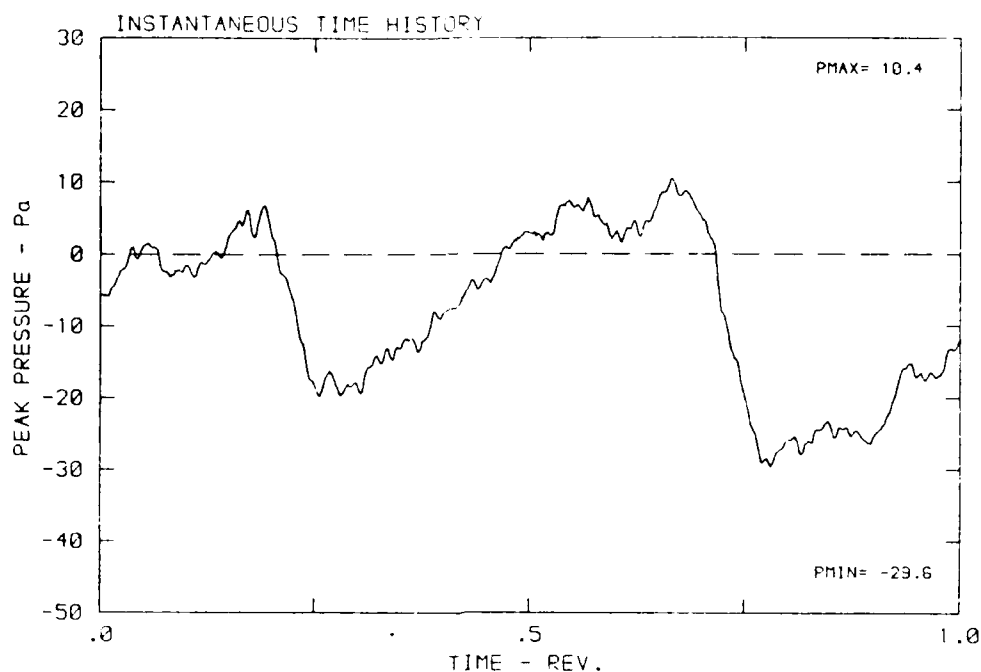
DATA POINT: AC-2 RUN: 84 MP: 6

β : 21.6° NH: .2719 n: 2400 rpm γ : .240 ϕ : .0° T: 287.9 K



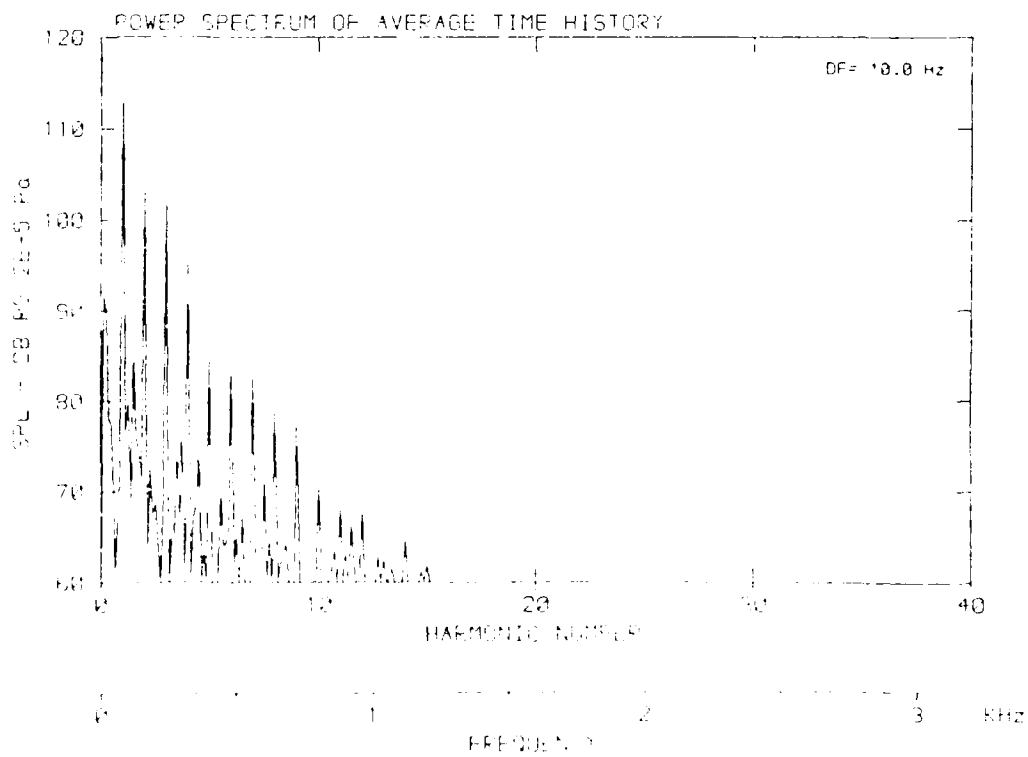
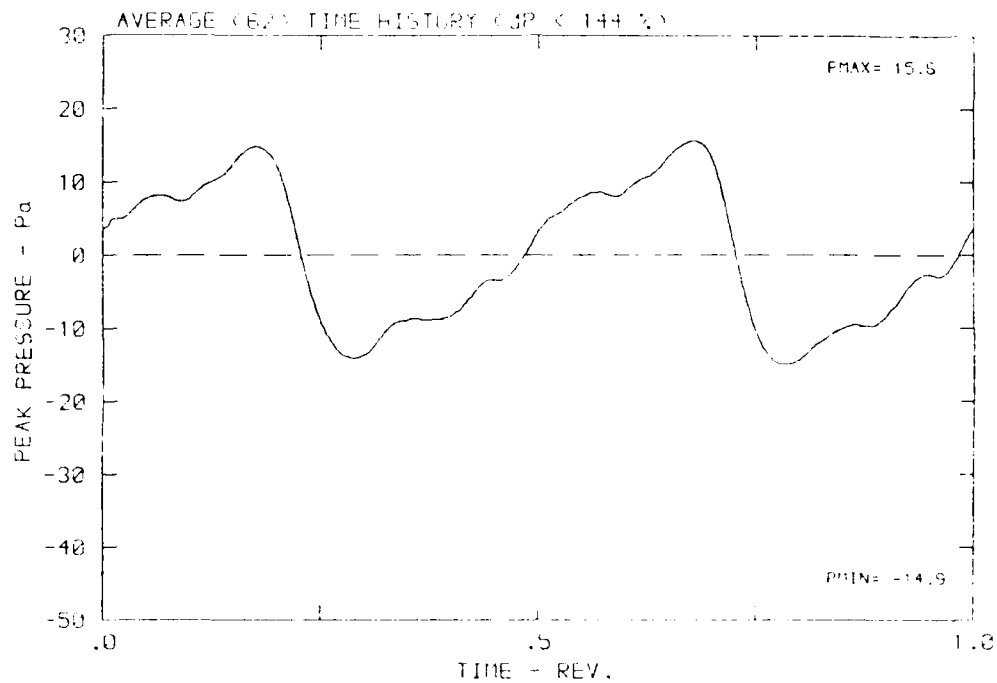
DATA POINT : AC-2 RUN : 84 MP : 7

β : 21.6° MH : .7719 n : 2400 rpm γ : .240 ϕ : .0° T : 267.9 K



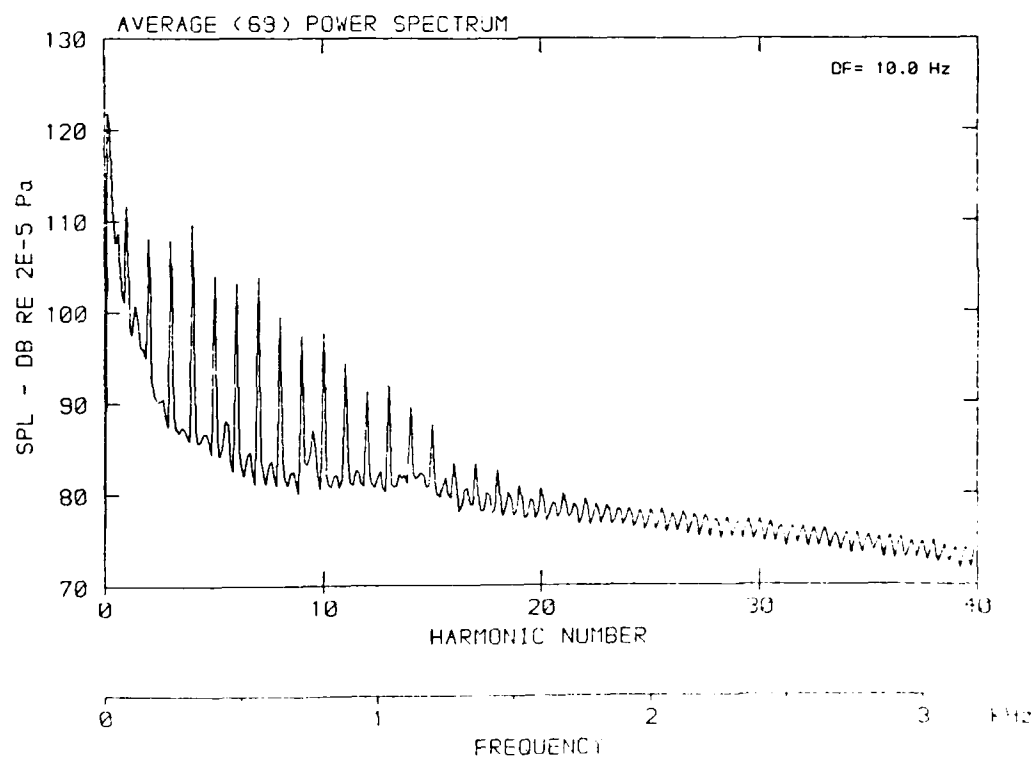
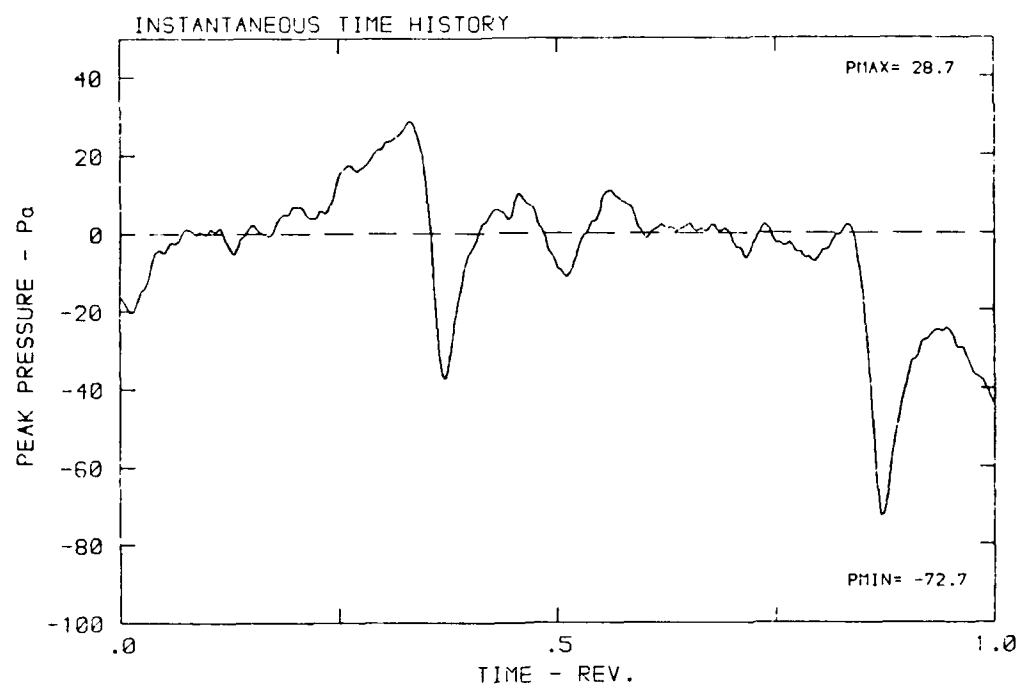
DATA POINT: AC-2 RUN: 84 MP: 7

β : 21.6° MH: .7719 n: 2400 rpm vru: .240 ϕ : .0° T: 287.9 K



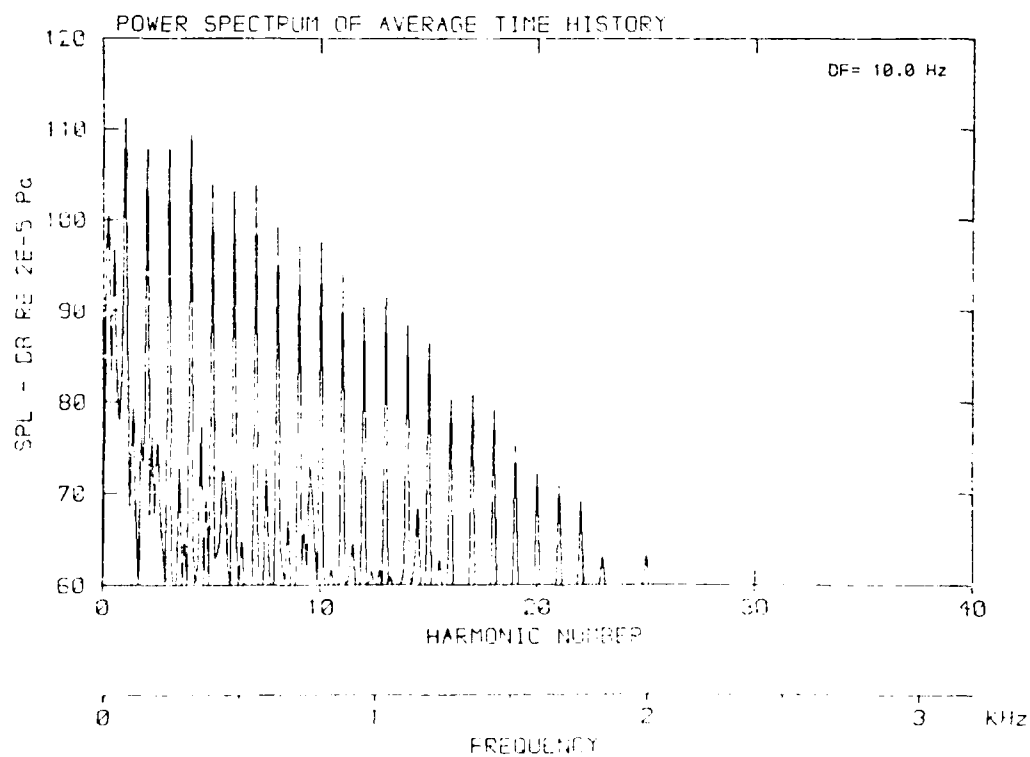
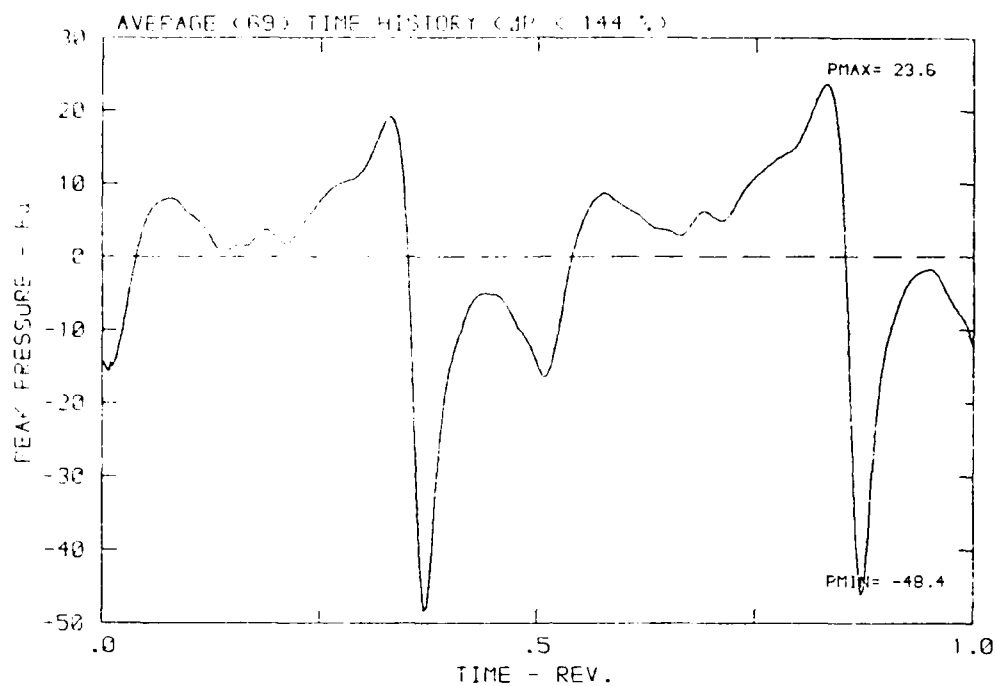
DATA POINT: AC-2 RUN: 84 MP: 9

β : 21.6° MH: .7719 n: 2400 rpm γ/α : .040 ϕ : .0° T: 257.3 ✓



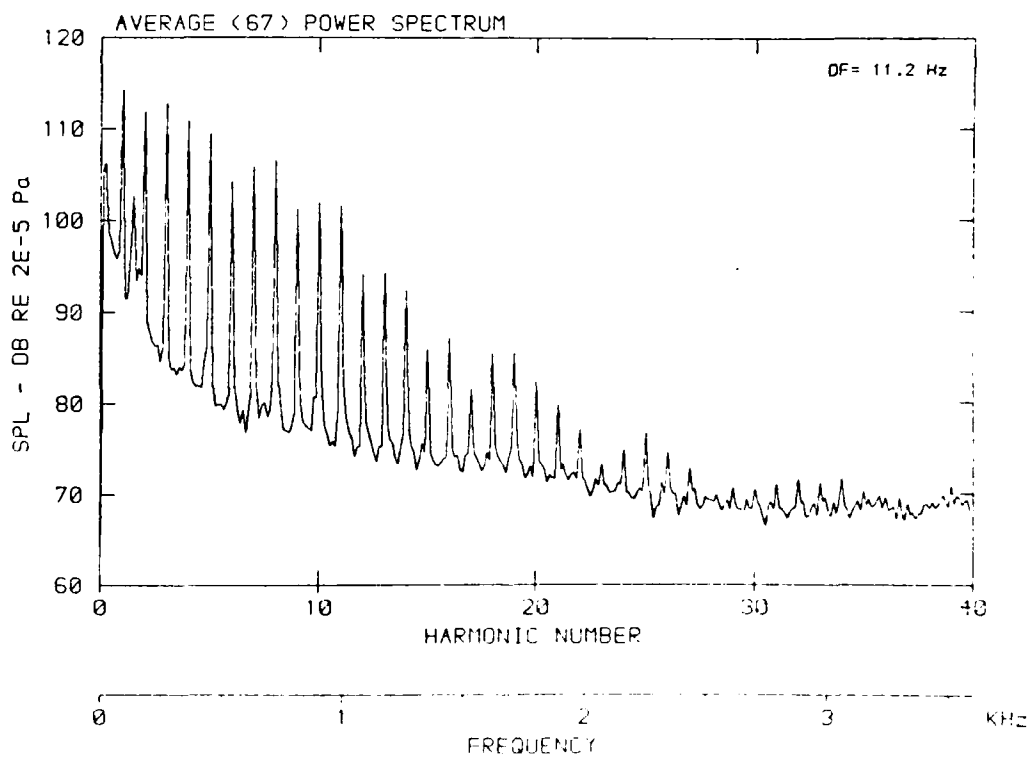
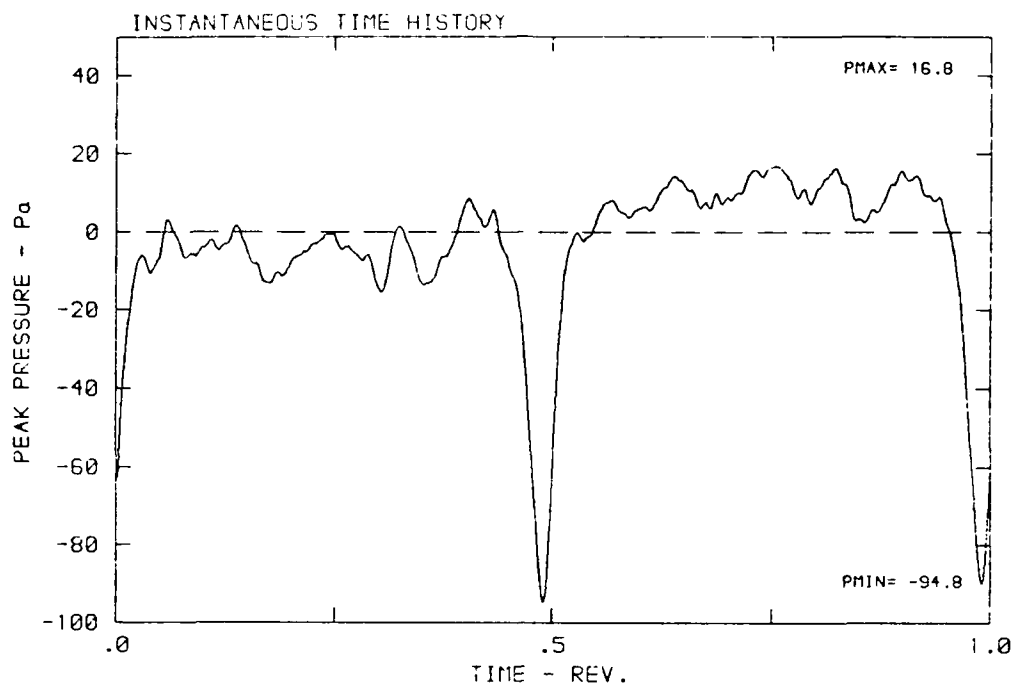
DATA POINT: AC-2 RUN: 84 MP: 9

β : 21.6° MH: .7719 n: 2400 rpm v/u : .240 ϕ : .0° T: 287.9 K



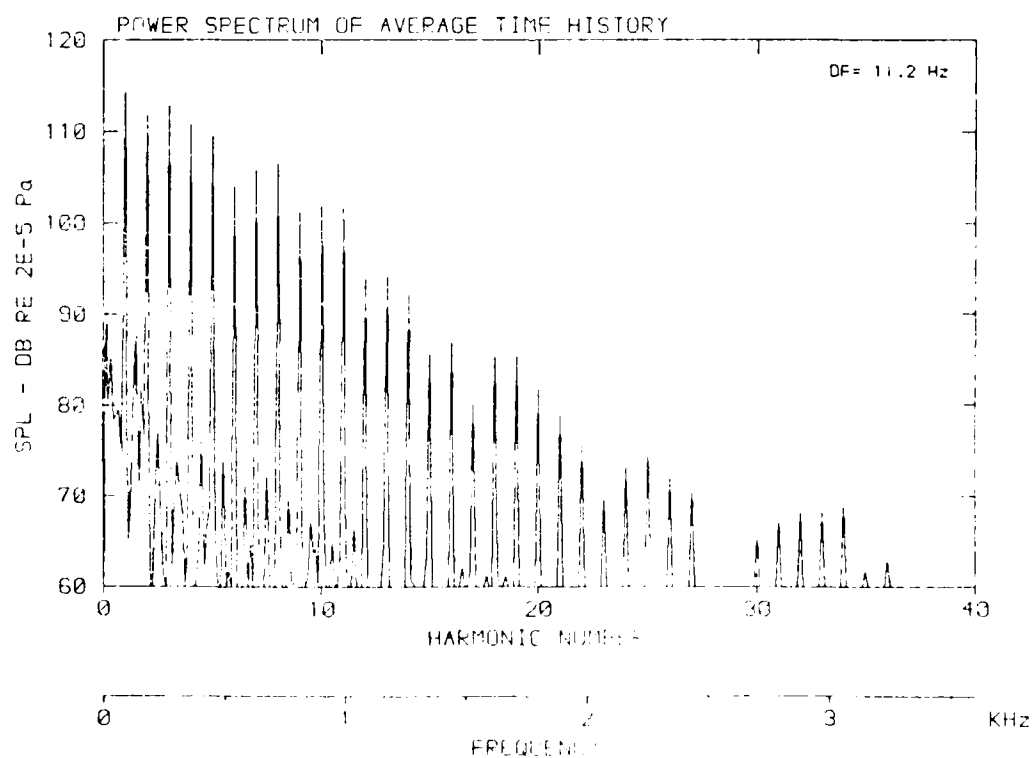
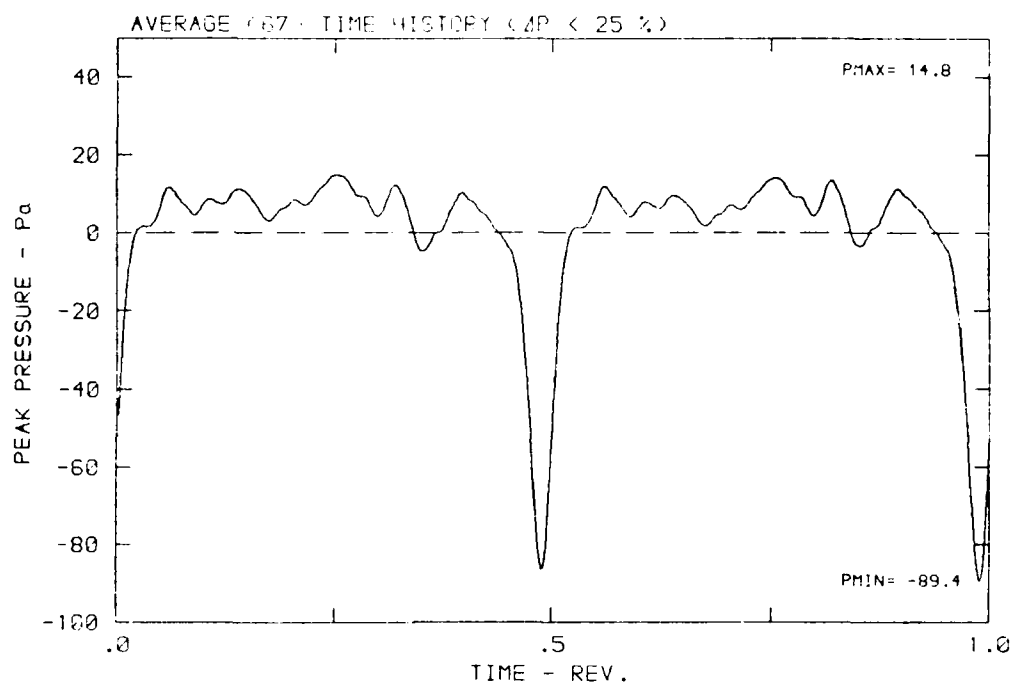
DATA POINT : AC-3 RUN : 83 MP : 1

β : 21.6° MH : .8684 n : 2700 rpm v/u : .242 ϕ : .0° T : 289.2 K



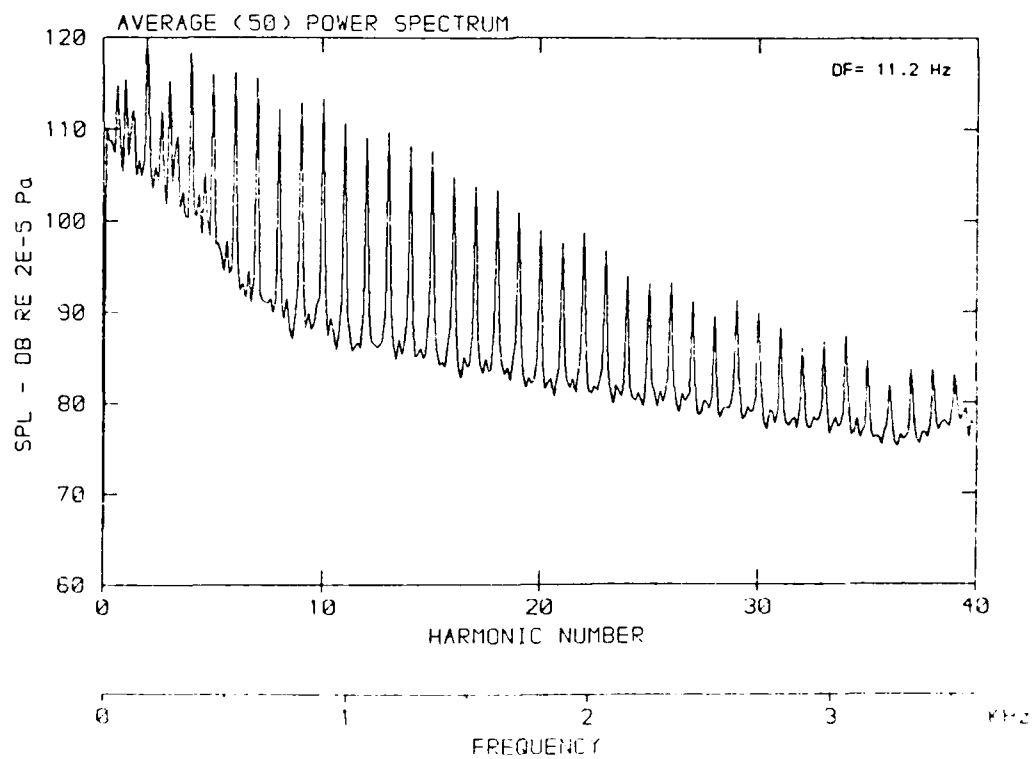
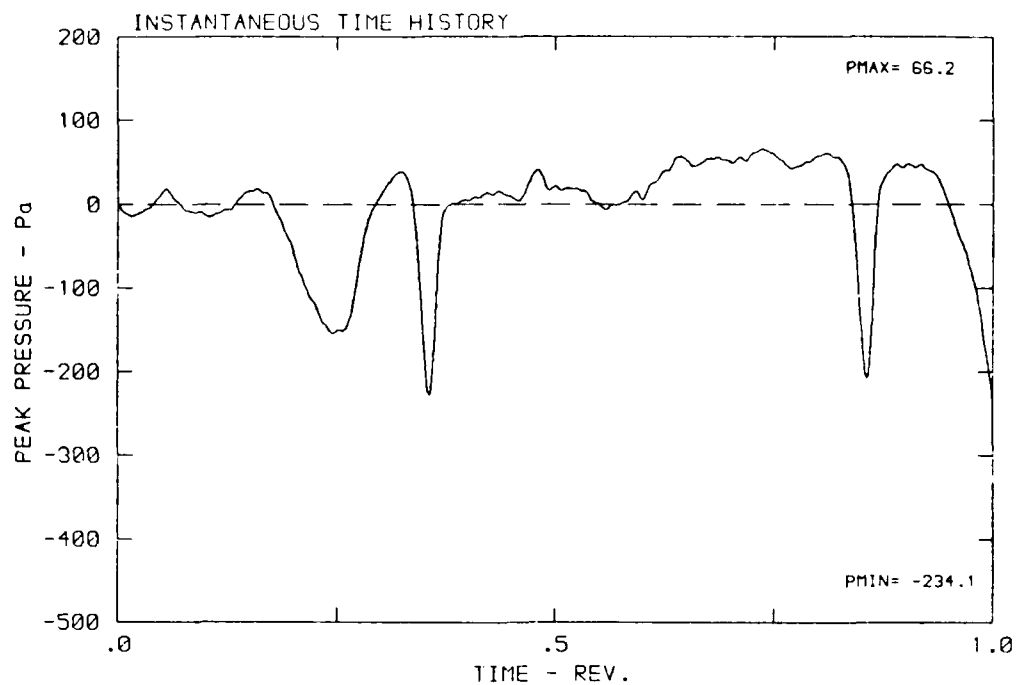
DATA POINT: AC-3 RUN: 83 MP: 1

β : 21.6° MH: .8694 n: 2700 rpm v/u : .242 ϕ : .0° T: 288.2 K



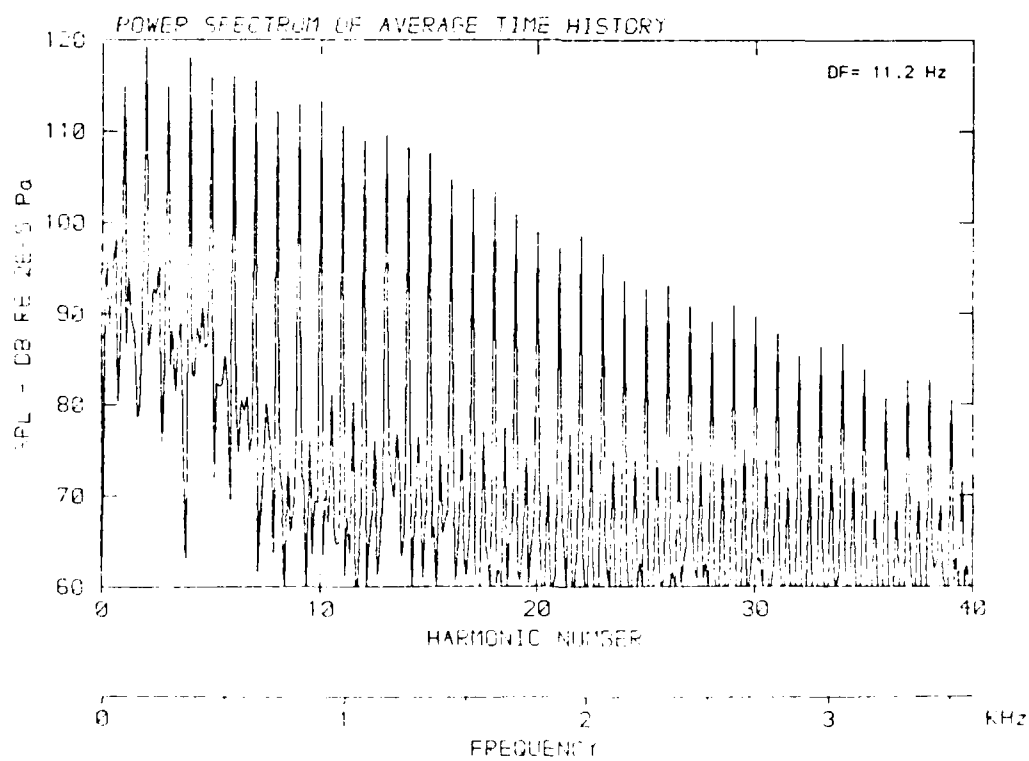
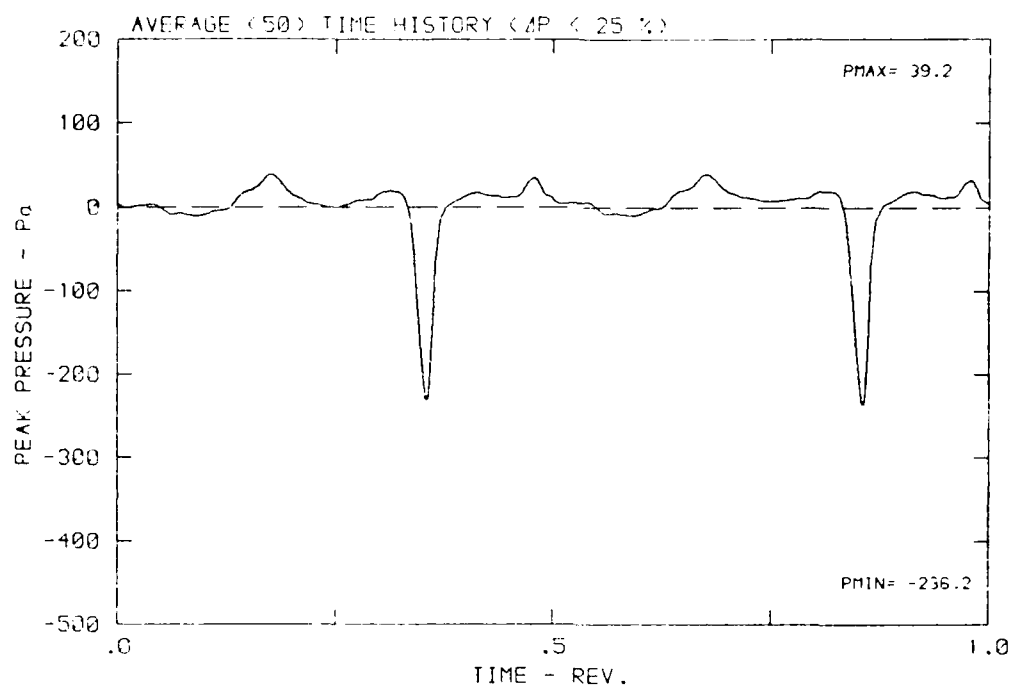
DATA POINT: AC-3 RUN: 83 MP: 2

β : 21.6° MH: .8684 n: 2700 rpm v/u: .242 ϕ : .0° T: 288.2 K



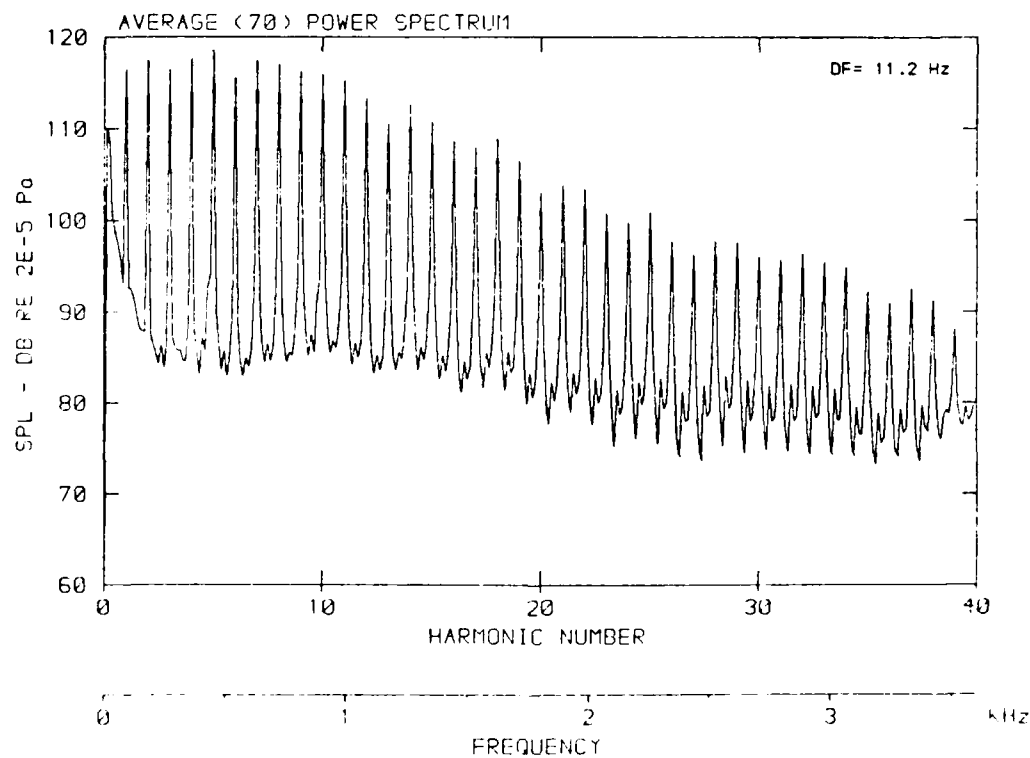
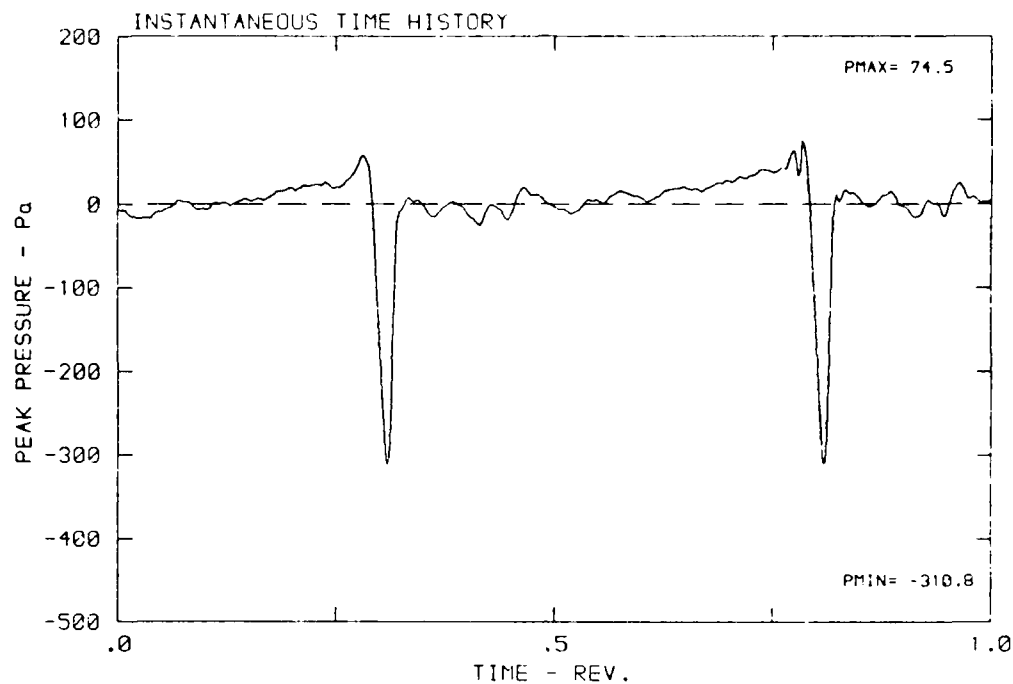
DATA POINT: AC-3 RUN: 83 MP: 2

β : 21.6° MH: .8684 n: 2700 rpm v/u: .242 ϕ : .0° T: 288.2 K



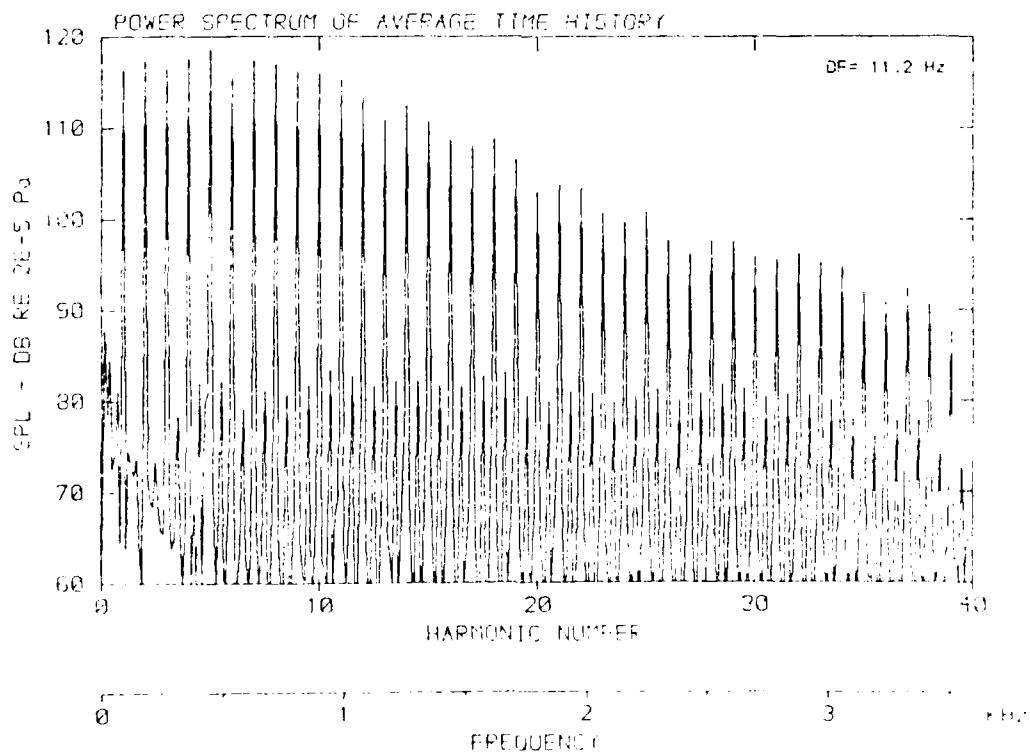
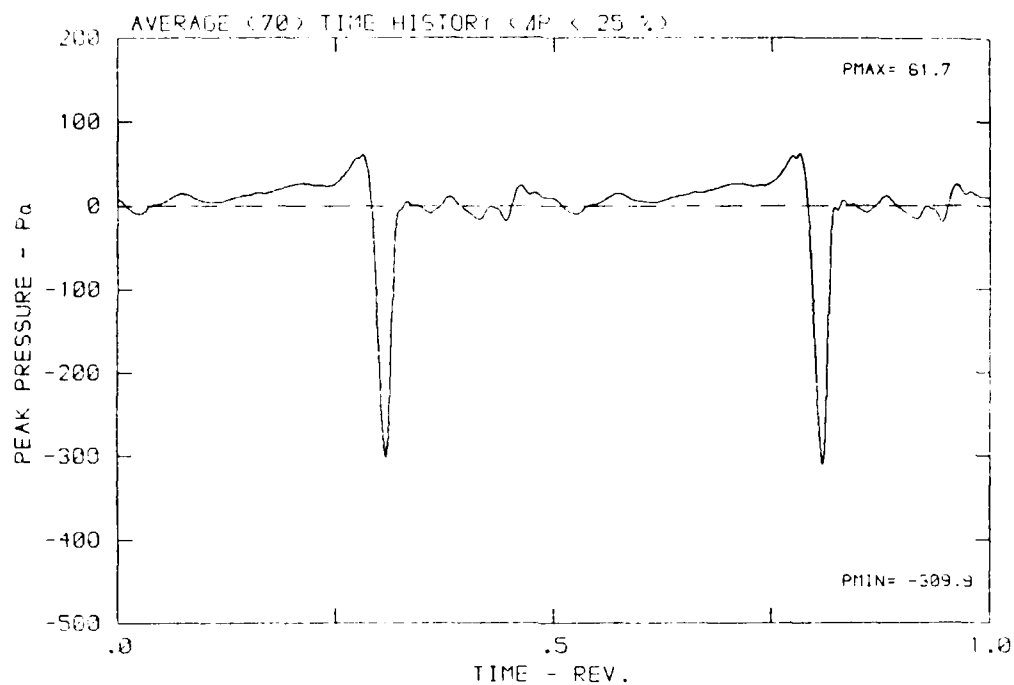
DATA POINT: AC-3 RUN: 83 MP: 3

β : 21.6° MH: .8684 n: 2700 rpm v/u : .242 ϕ : .0° T: 288.2 K



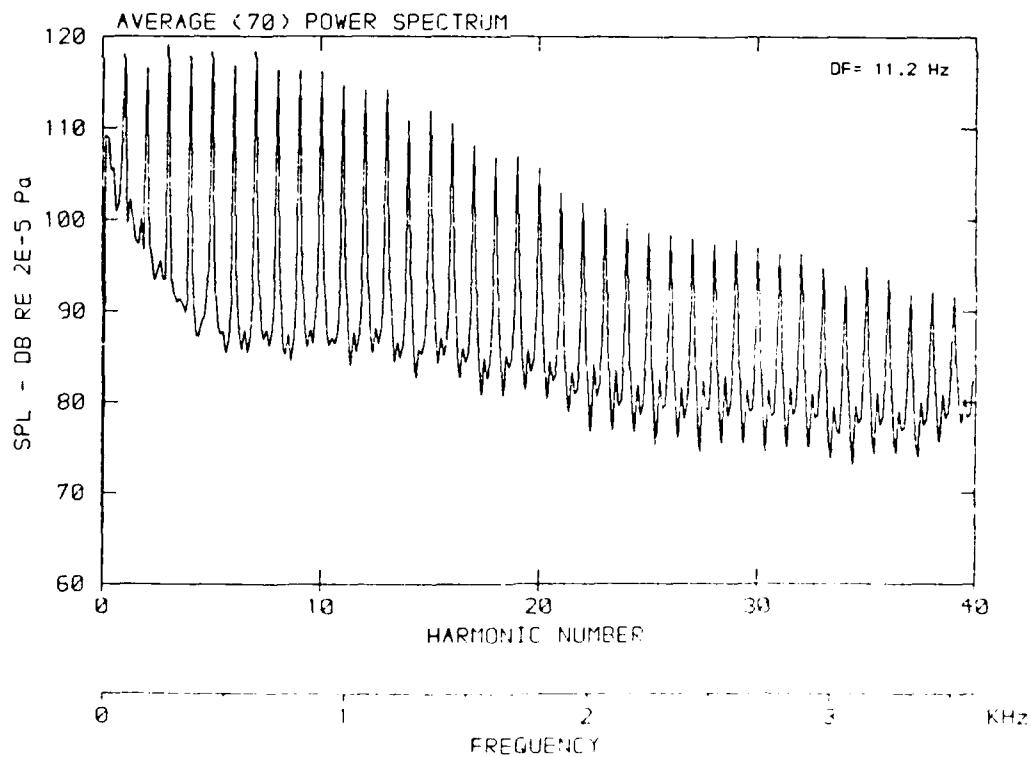
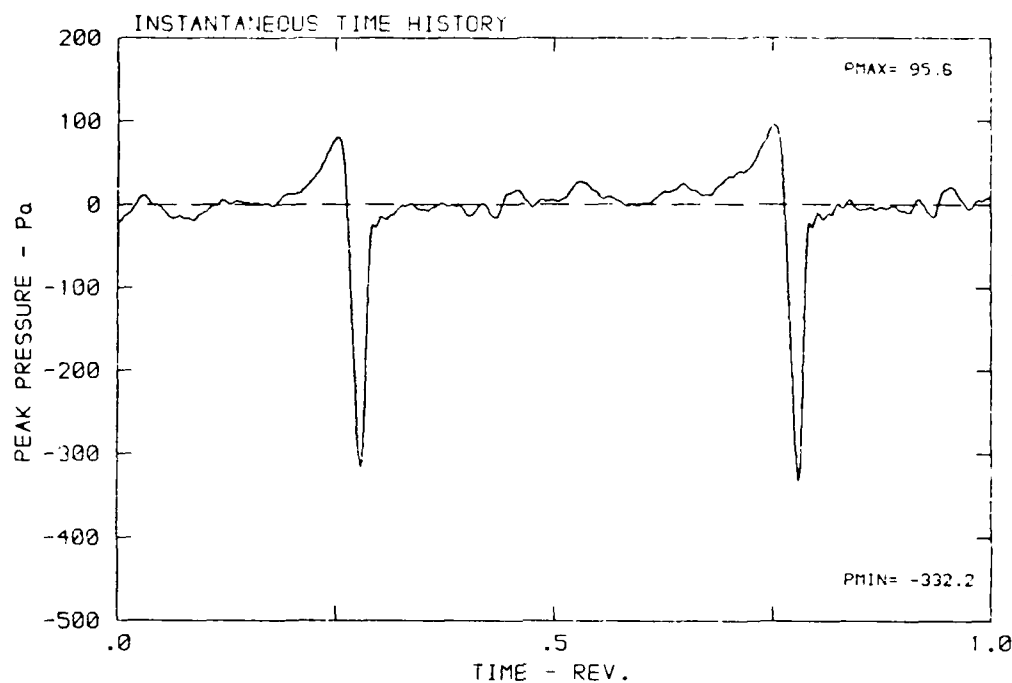
DATA POINT: AC-3 RUN: 83 MP: 3

β : 21.6° MH: .8684 n: 2700 rpm v/u: .242 ϕ : .0° T: 288.2 ✓



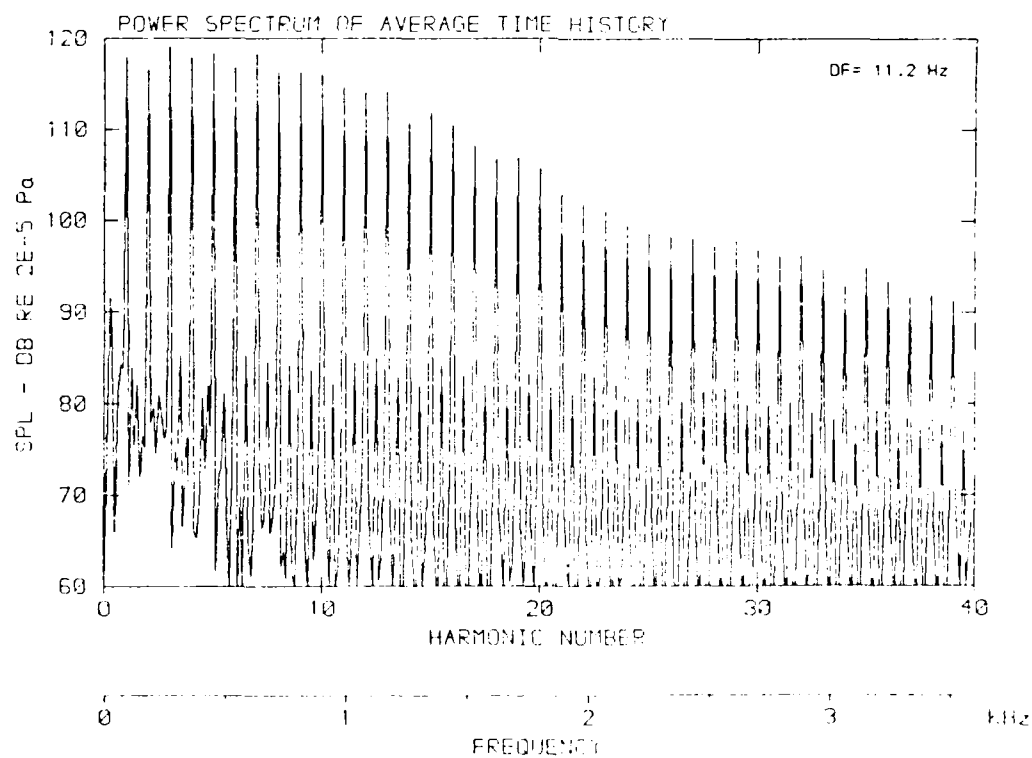
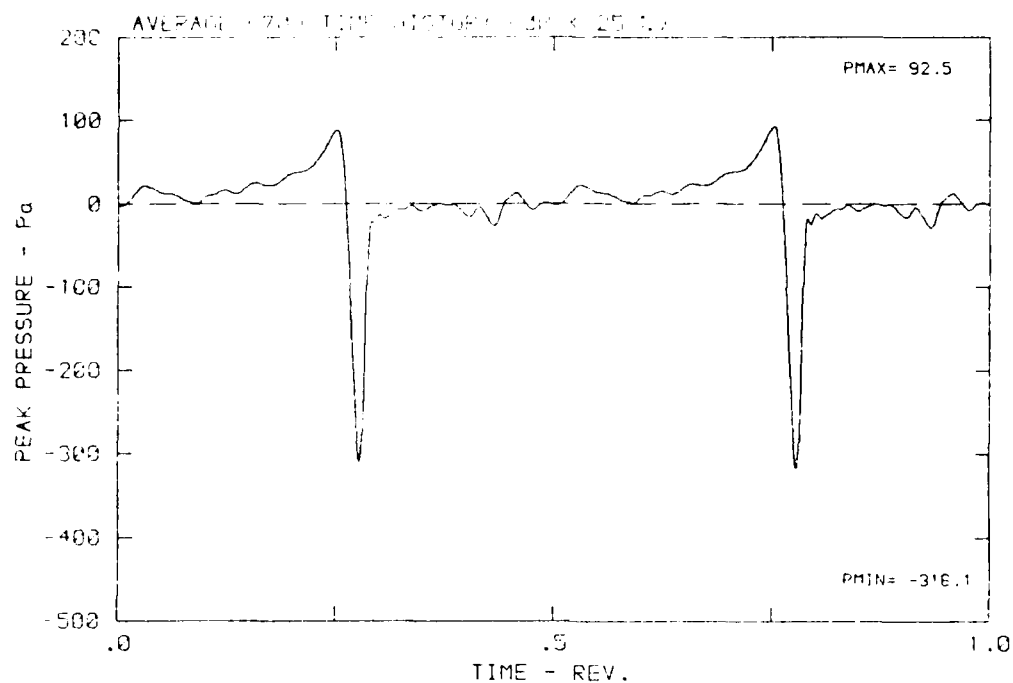
DATA POINT: AC-3 RUN: 33 NP: 4

β : 21.6° MH: .8684 n: 2700 rpm v/u : .242 ϕ : .0° T: 295.2 K



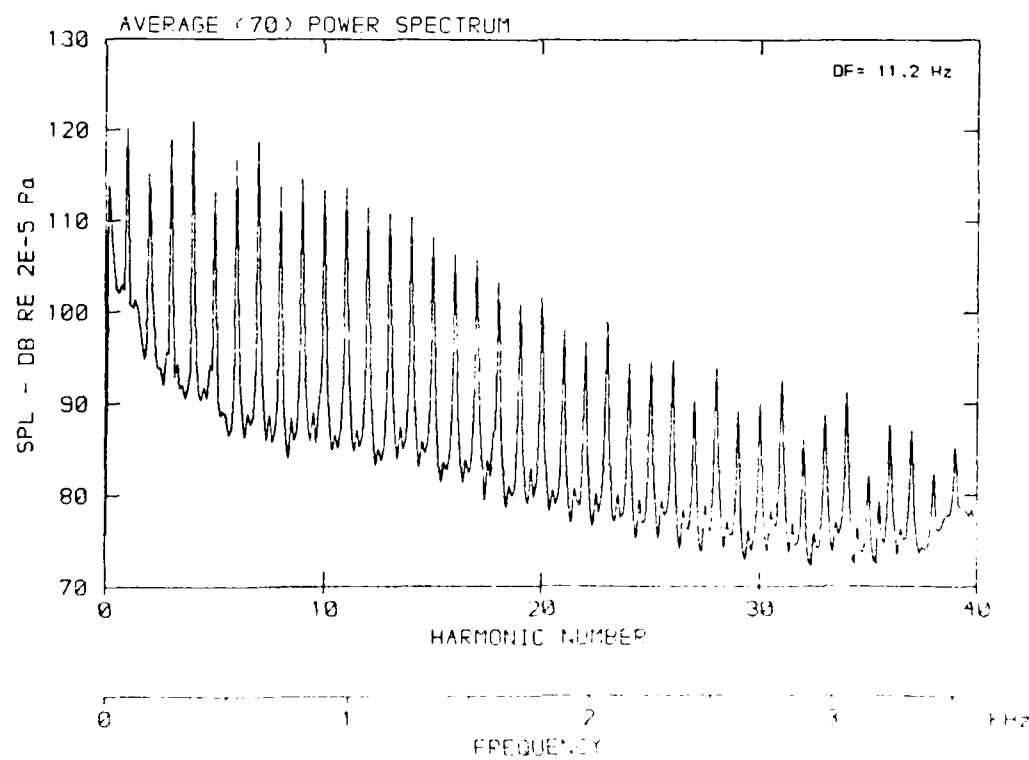
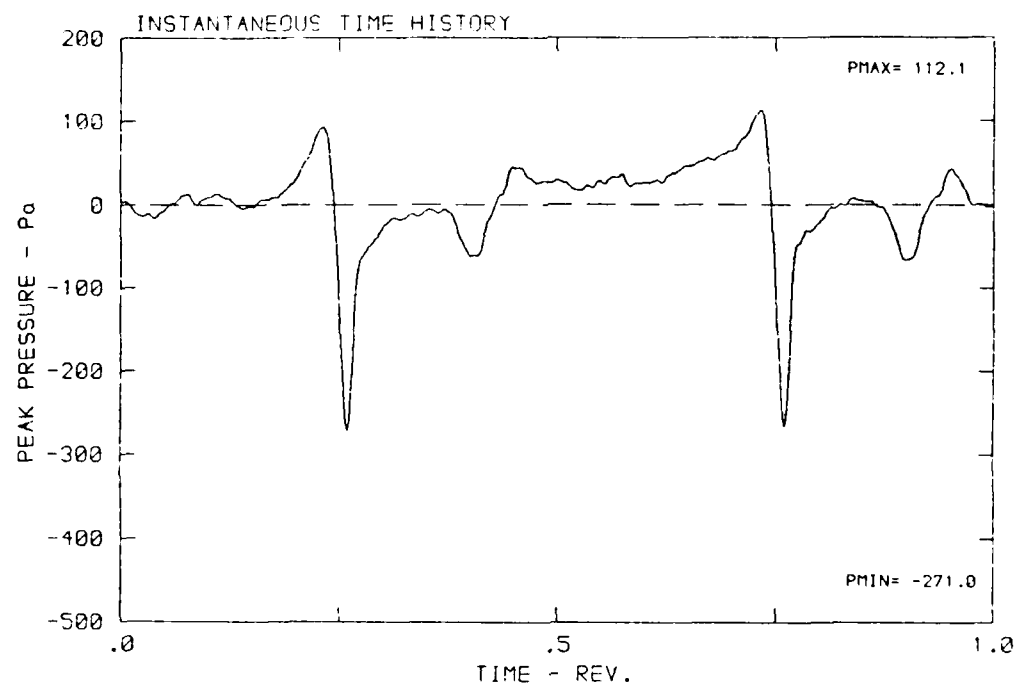
DATA POINT: AC-3 RUN: 83 MP: 4

β : 21.6° MH: .8684 n: 2700 rpm v/u: .242 ϕ : .0° T: 288.2 K



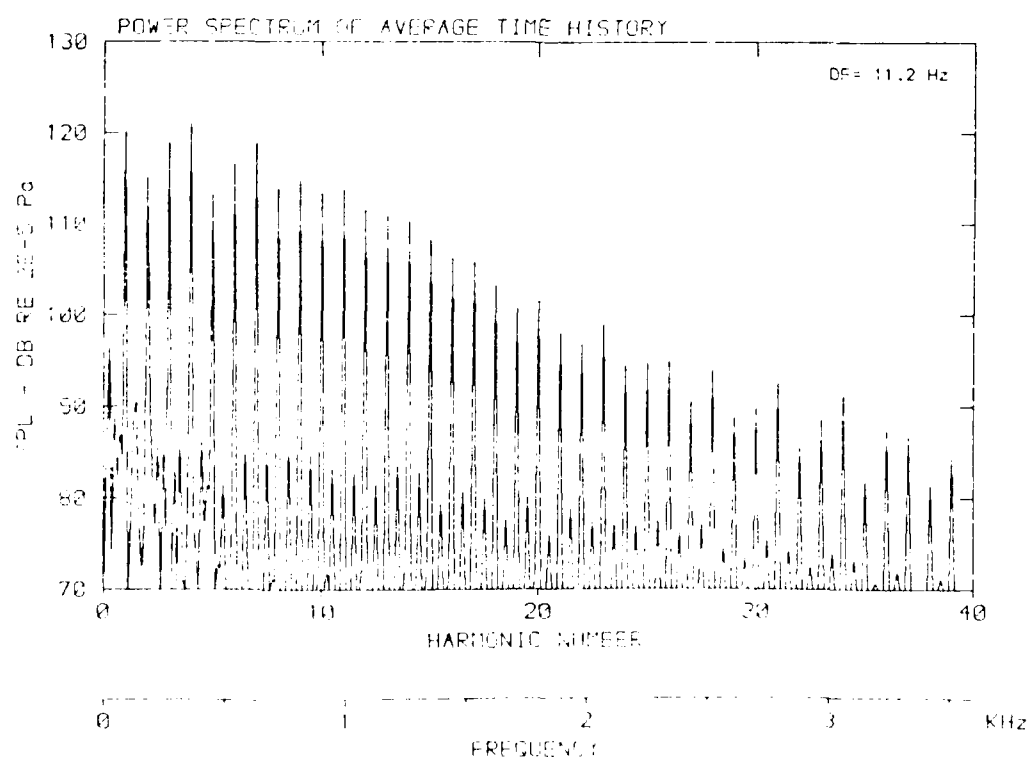
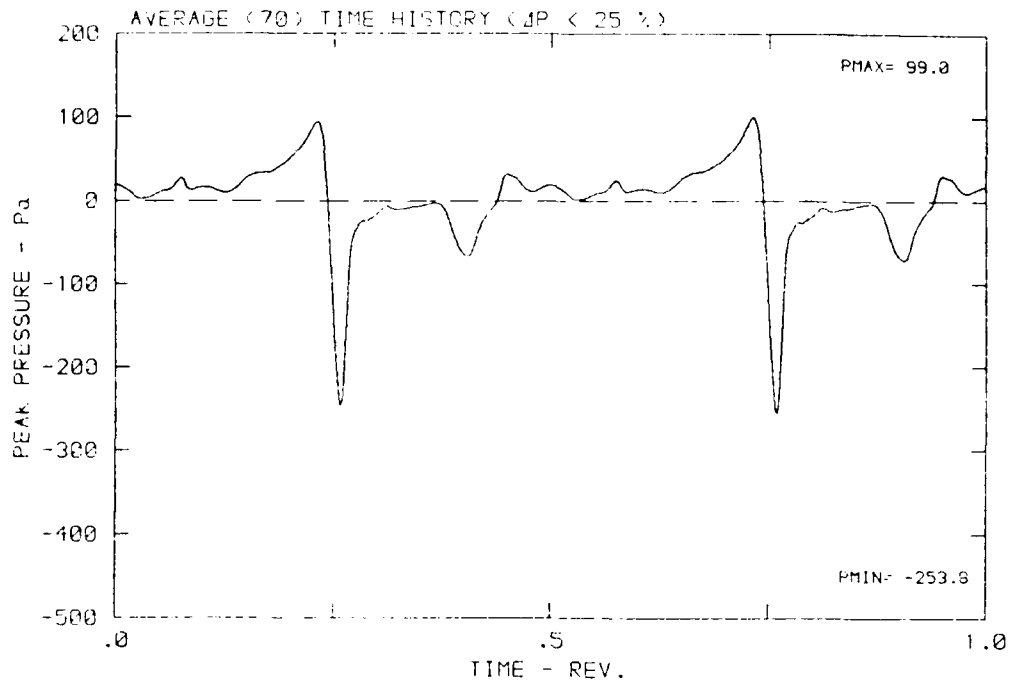
DATA POINT: AC-3 RUN: 83 MP: 5

β : 21.6° NH: .8684 n: 2700 rpm v/u : .242 ϕ : .0° T: 288.2 K



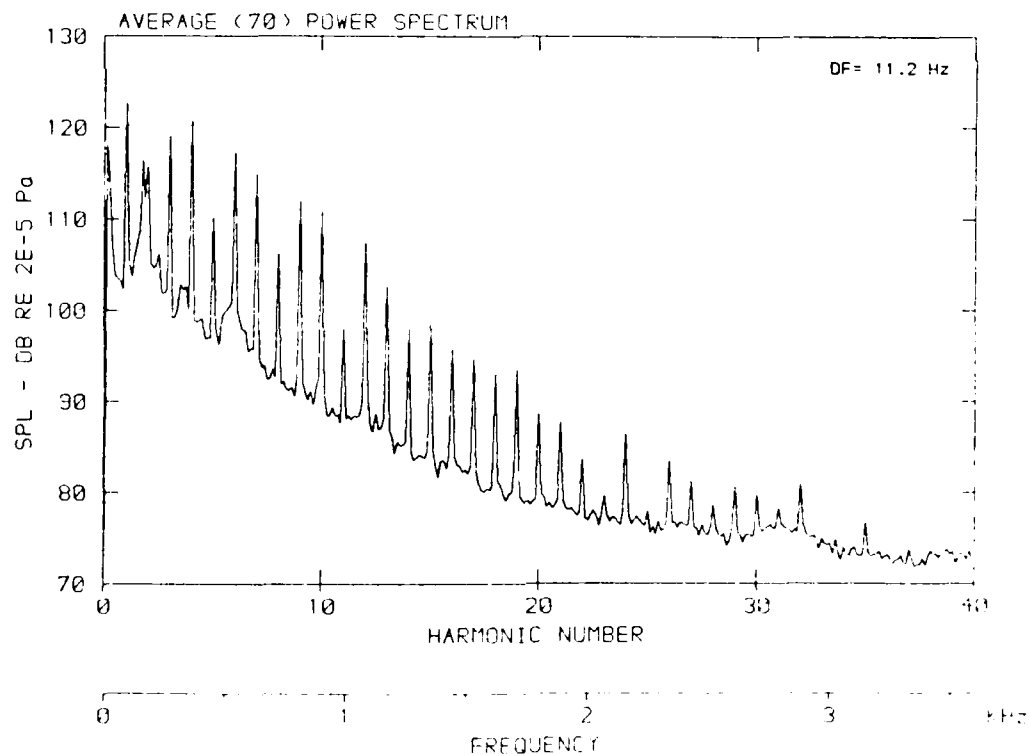
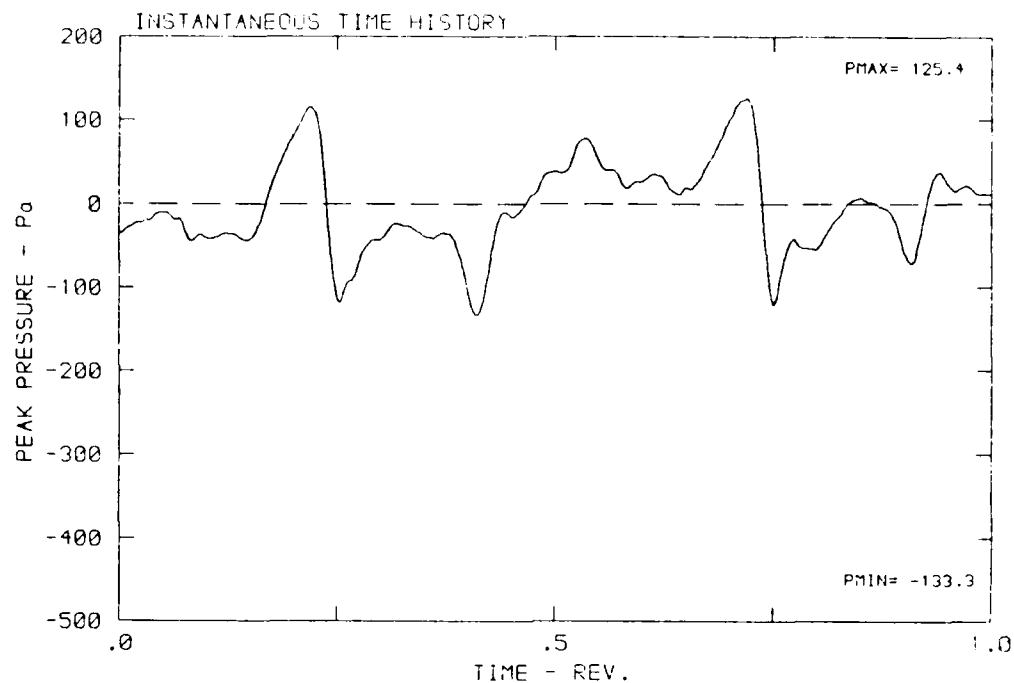
DATA POINT: AC-3 RUN: 83 MP: 5

β : 21.6° MH: .8684 n: 2700 rpm v/u : .242 ϕ : .0° T: 288.2 K



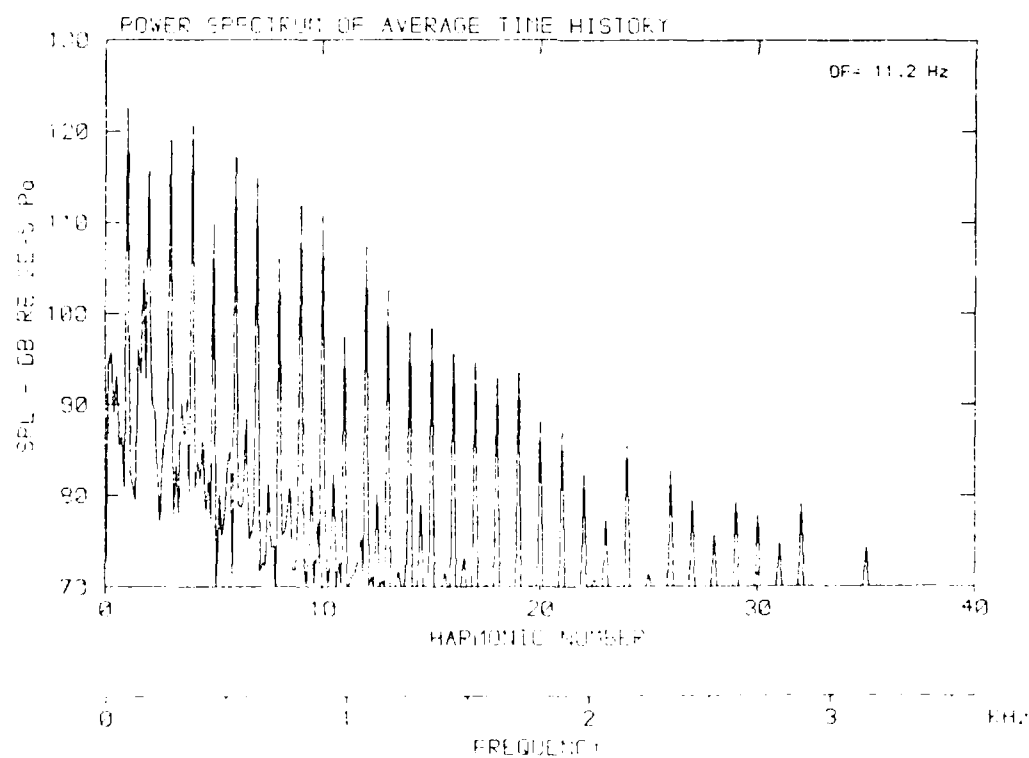
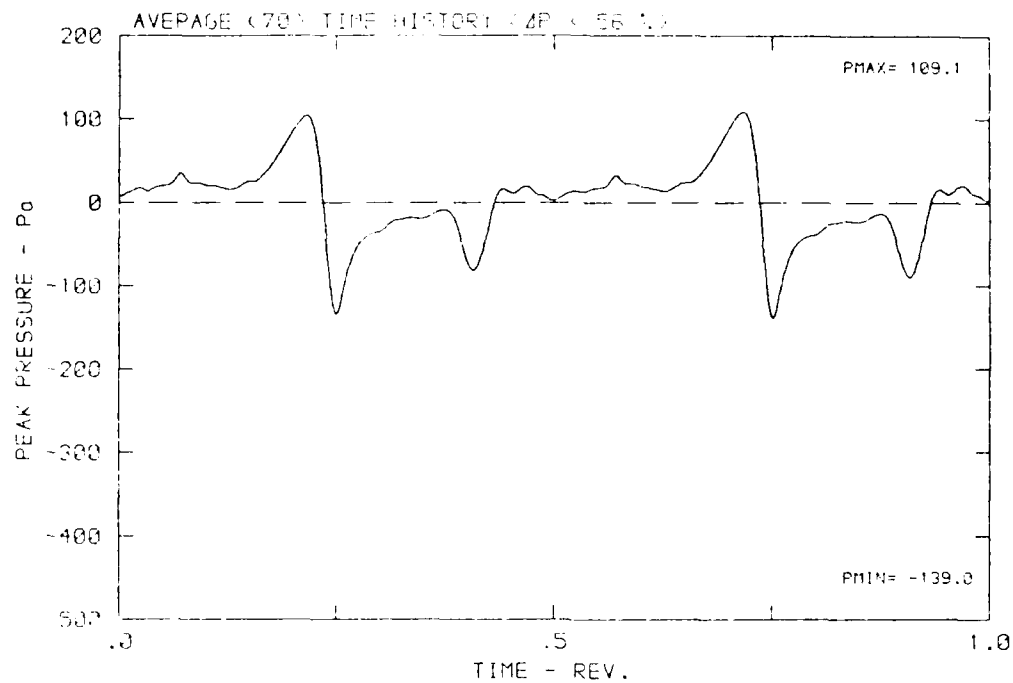
DATA POINT: AC-3 RUN: 83 MP: 6

β : 21.6° MH: .8534 n: 2700 rpm ν : .242 ϕ : .0° T: 288.2



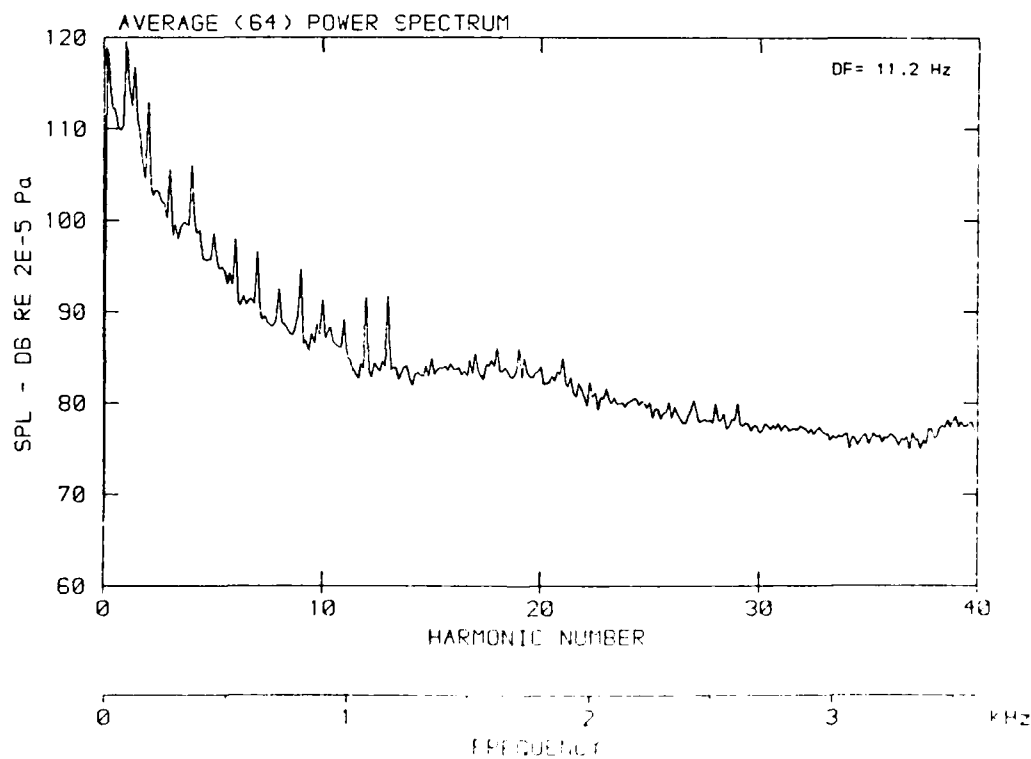
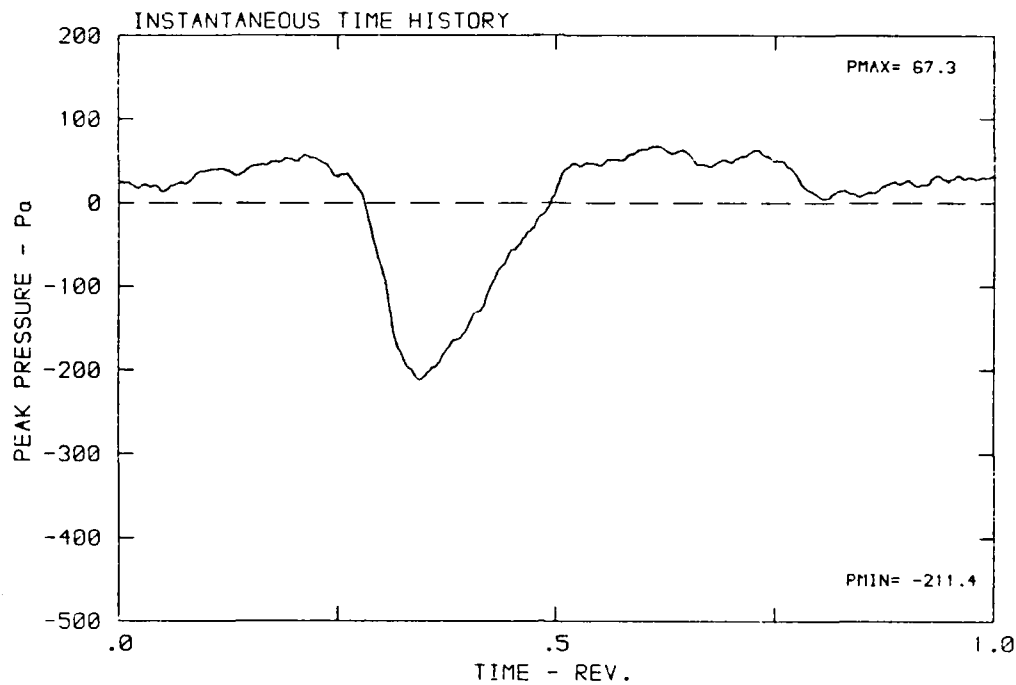
DATA POINT: AC-3 RUN: 83 MP: 6

β : 21.6° MH: .8684 n: 2700 rpm v_{tu} : .242 ϕ : .0° T: 238.2 K



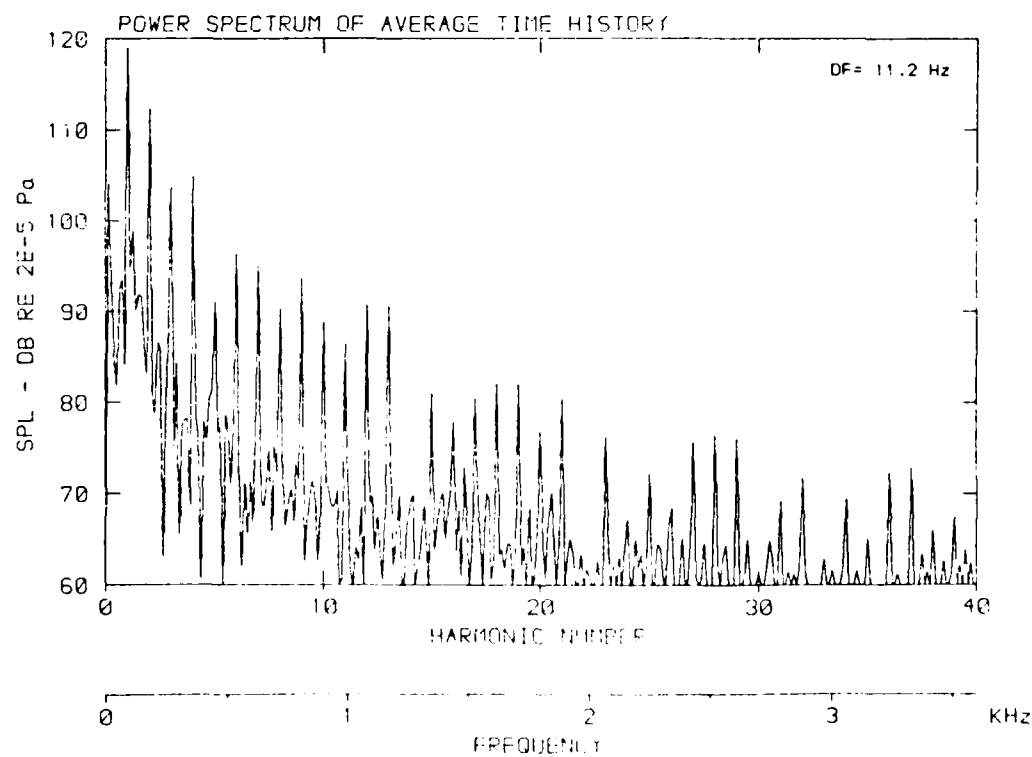
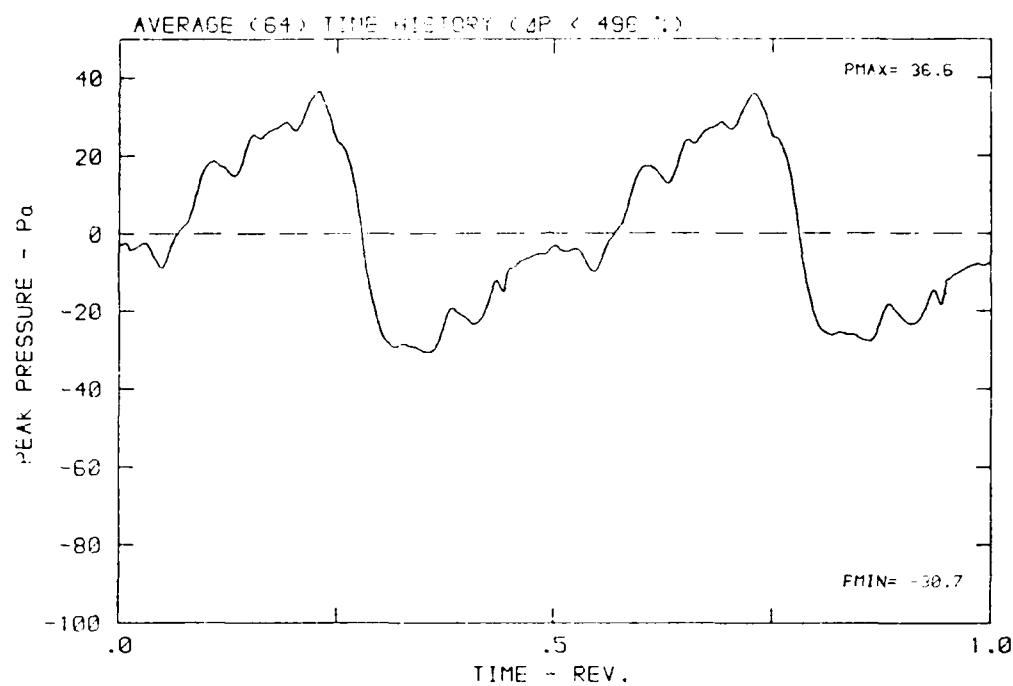
DATA POINT: AC-3 RUN: 83 MP: 7

β : 21.6° MH: .8684 n: 2700 rpm v/u : .242 ϕ : .0° T: 268.2 K



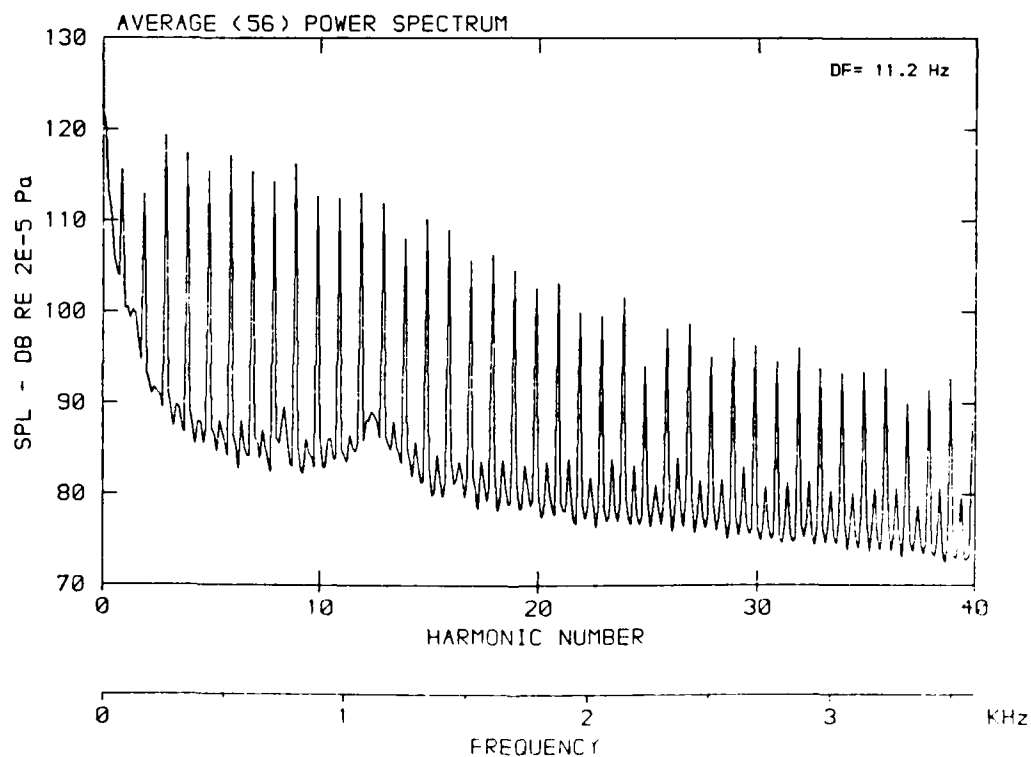
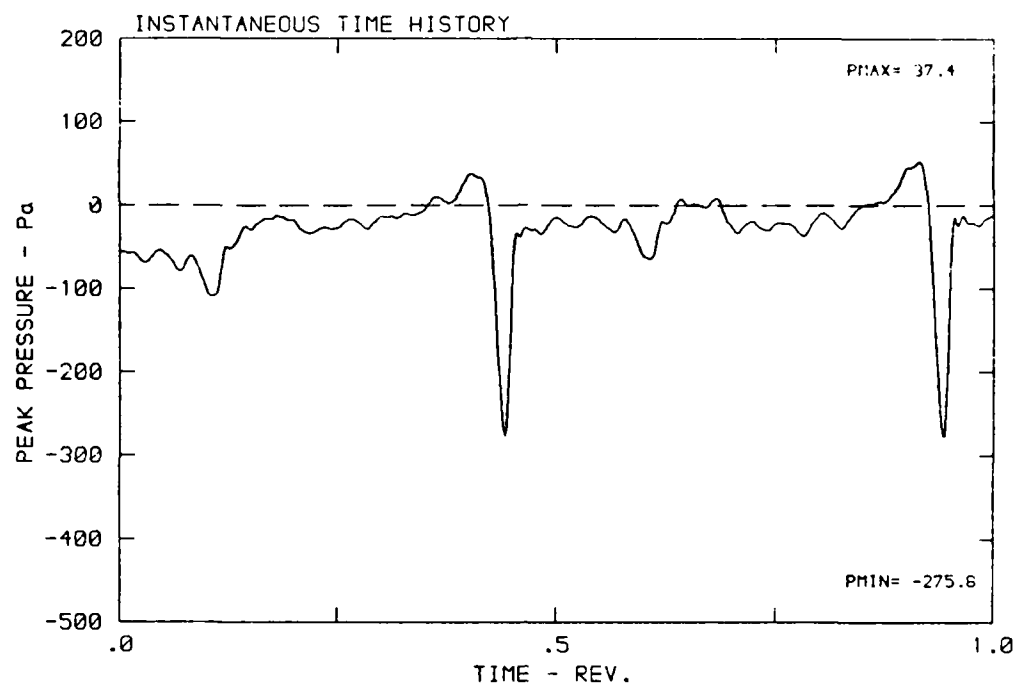
DATA POINT: AC-3 RUN: 83 MP: 7

β : 21.6° MH: .8684 n: 2700 rpm v/u : .242 ϕ : .0° T: 288.2 K



DATA POINT: AC-3 RUN: 83 MP: 9

β : 21.6° MH: .8684 n: 2700 rpm v/u: .242 ϕ : .0° T: 266.2 K

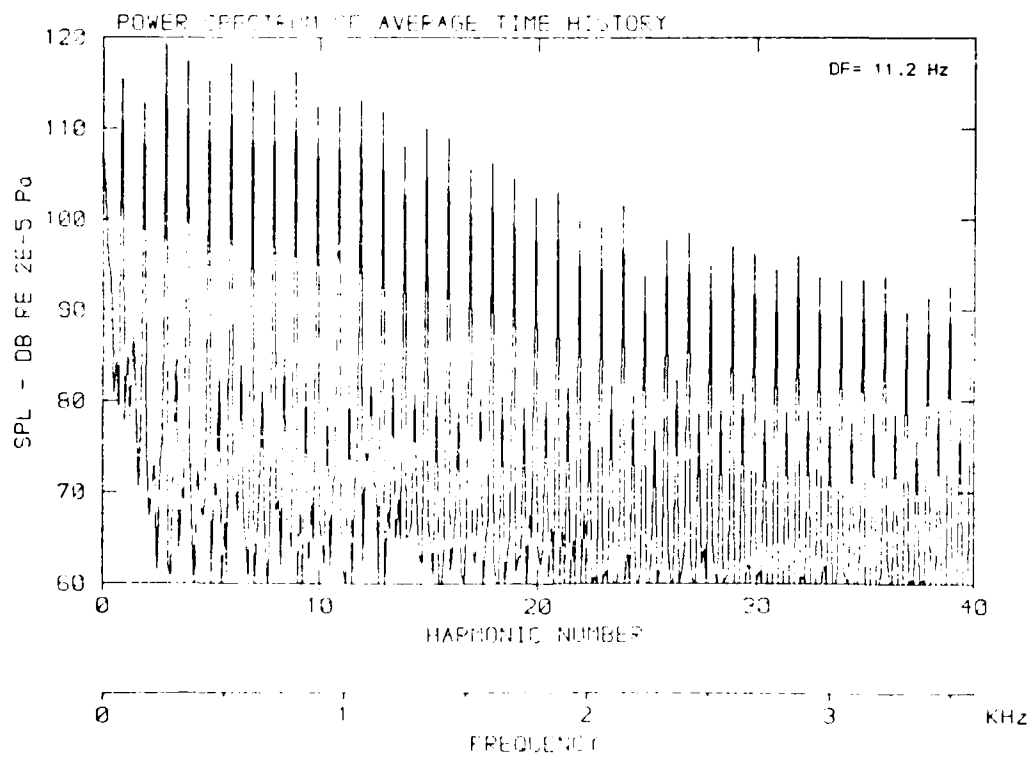
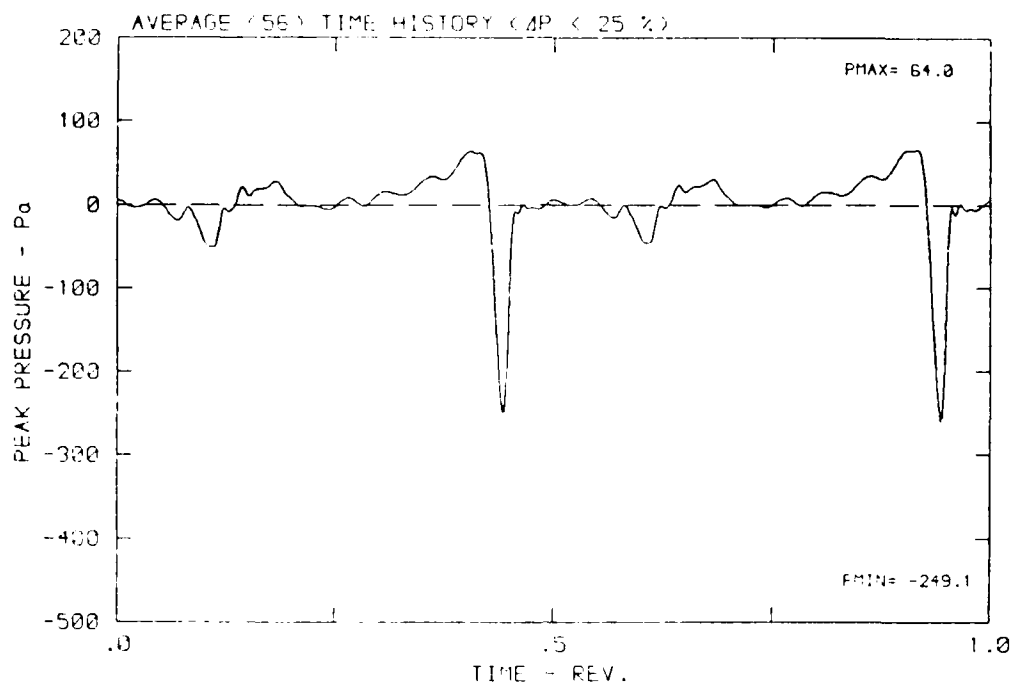


DATA POINT: AC-3

RUN: 83

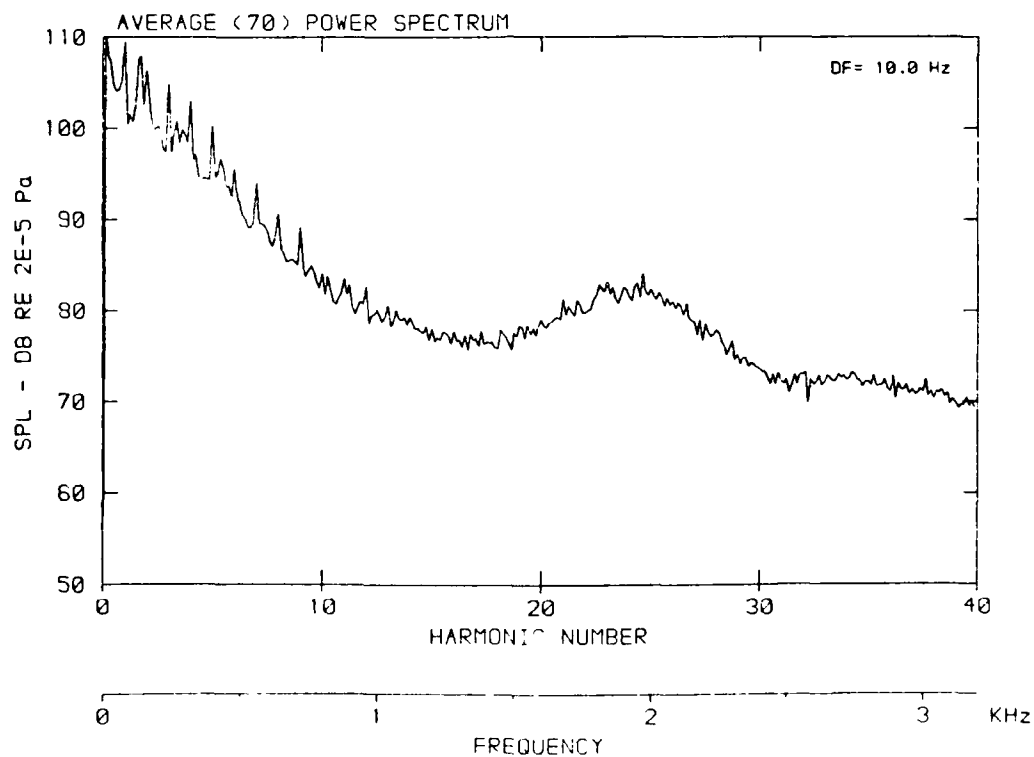
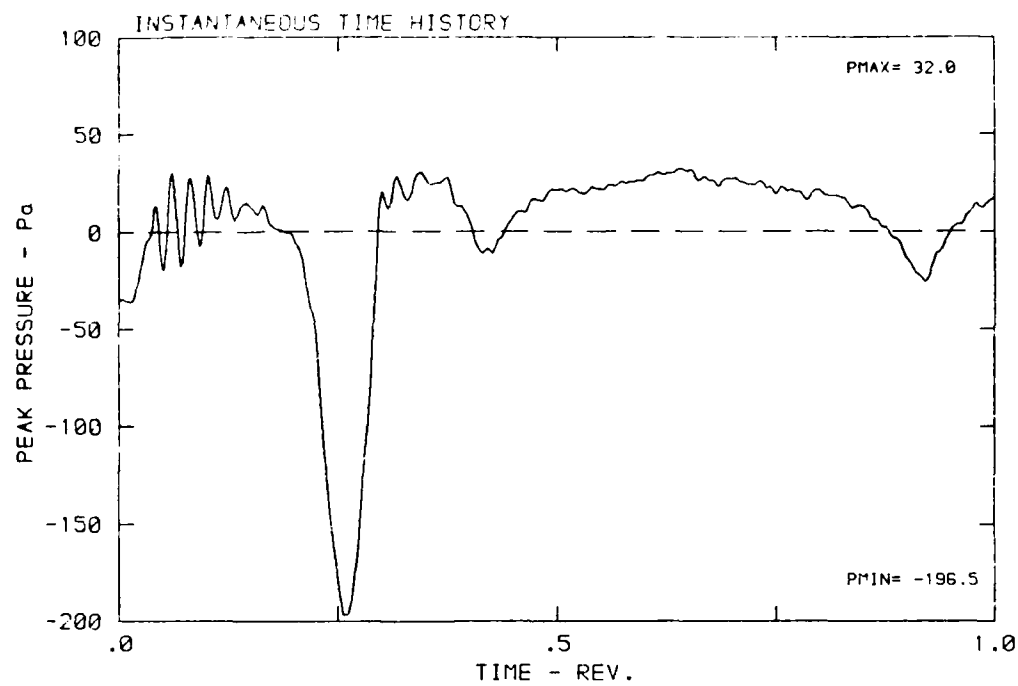
MP: 9

β : 21.6° MH: .8684 n: 2700 rpm v/u : .242 ϕ : .0° T: 288.2 K



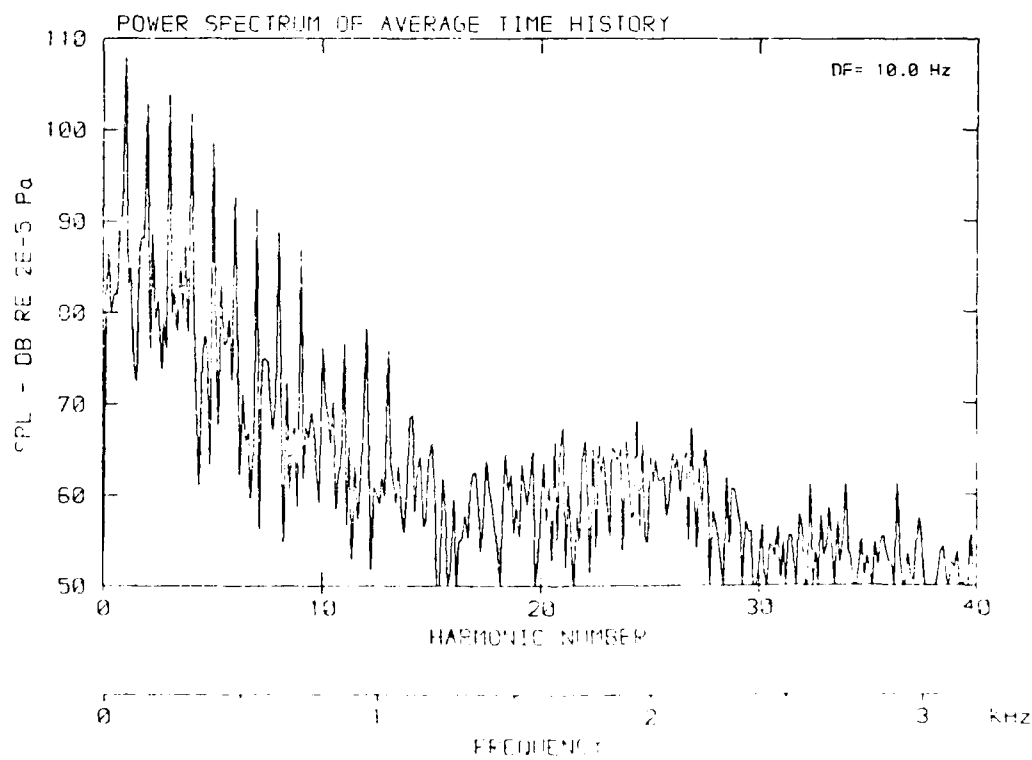
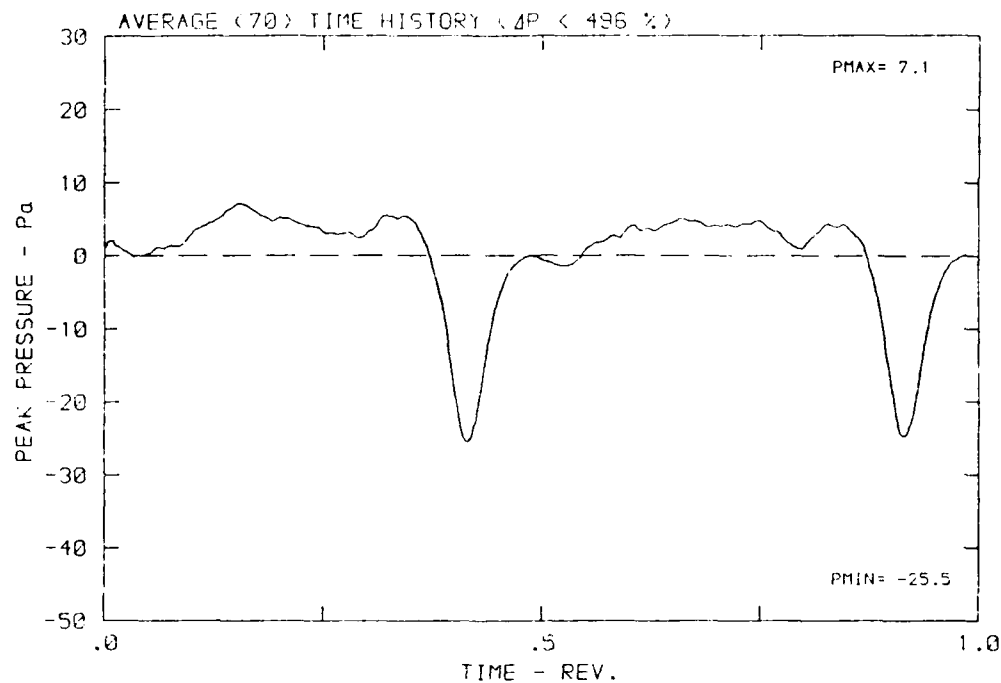
DATA POINT: AC-4 RUN: 80 MP: 1

β : 21.6° MH: .7350 n: 2400 rpm ν : .302 ϕ : .0° T: 297.2



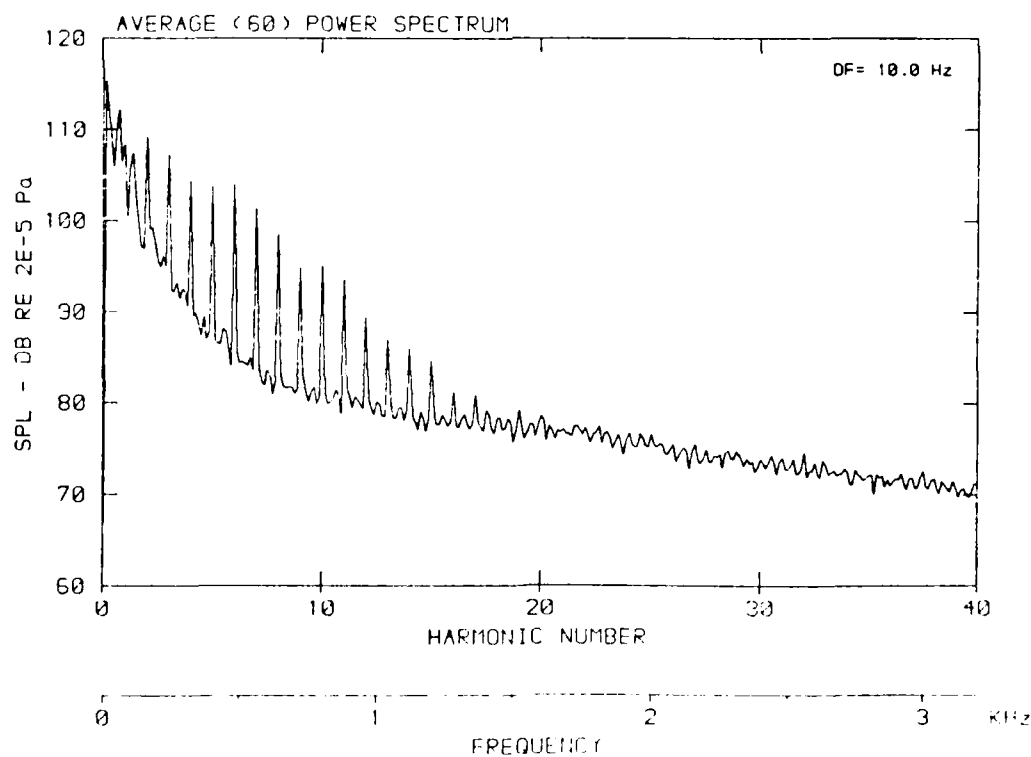
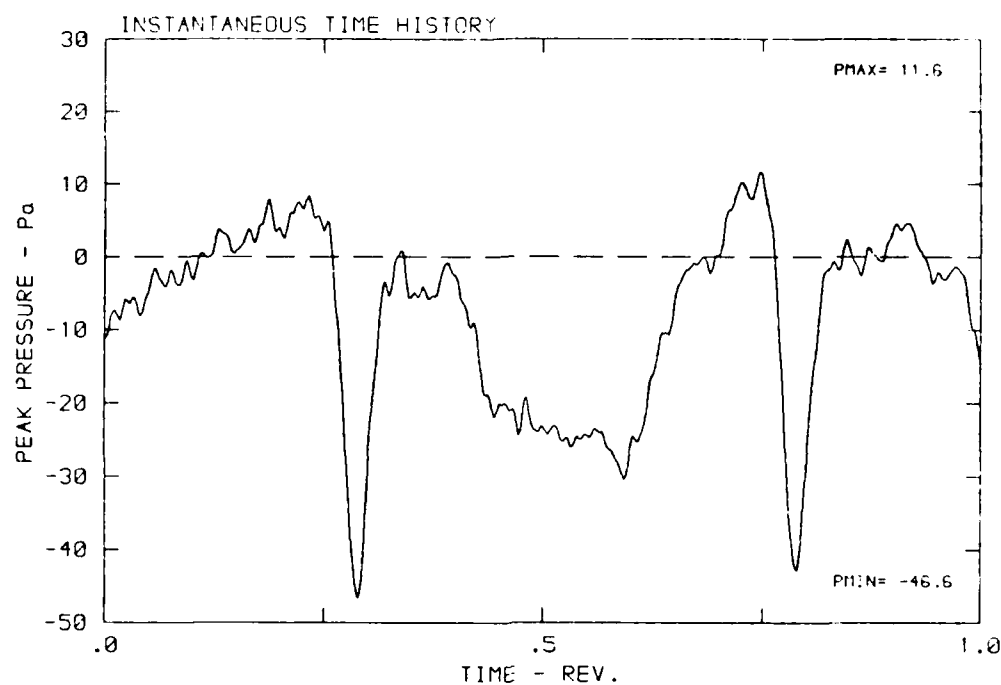
DATA POINT : AC-4 RUN : 80 MP : 1

β : 21.6° MH : .7850 n : 2400 rpm v/u : .302 ϕ : .0° T : 287.2 K



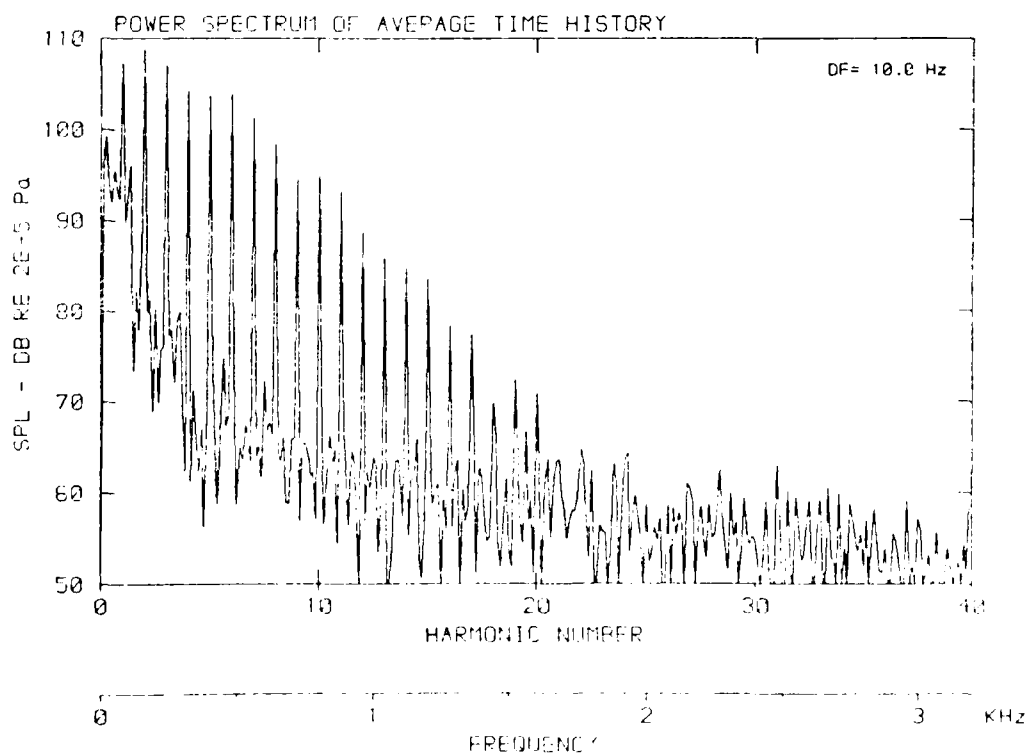
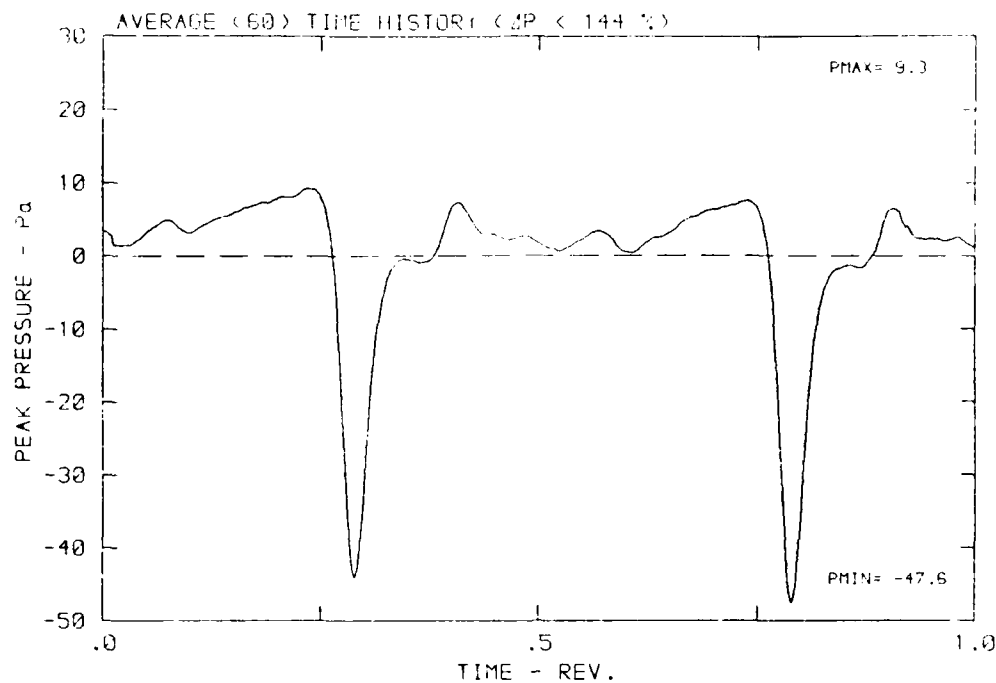
DATA POINT: AC-4 RUN: 80 MP: 2

β : 21.6° MH: .7850 n: 2400 rpm v/u : .302 ϕ : .0° T: 297.3



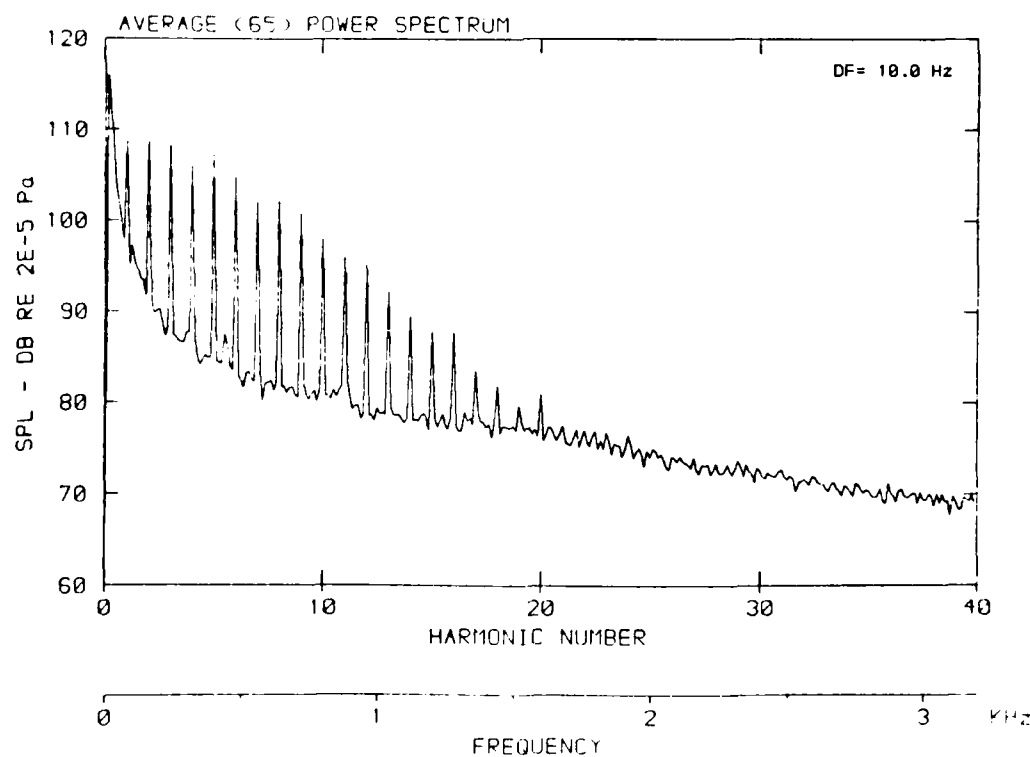
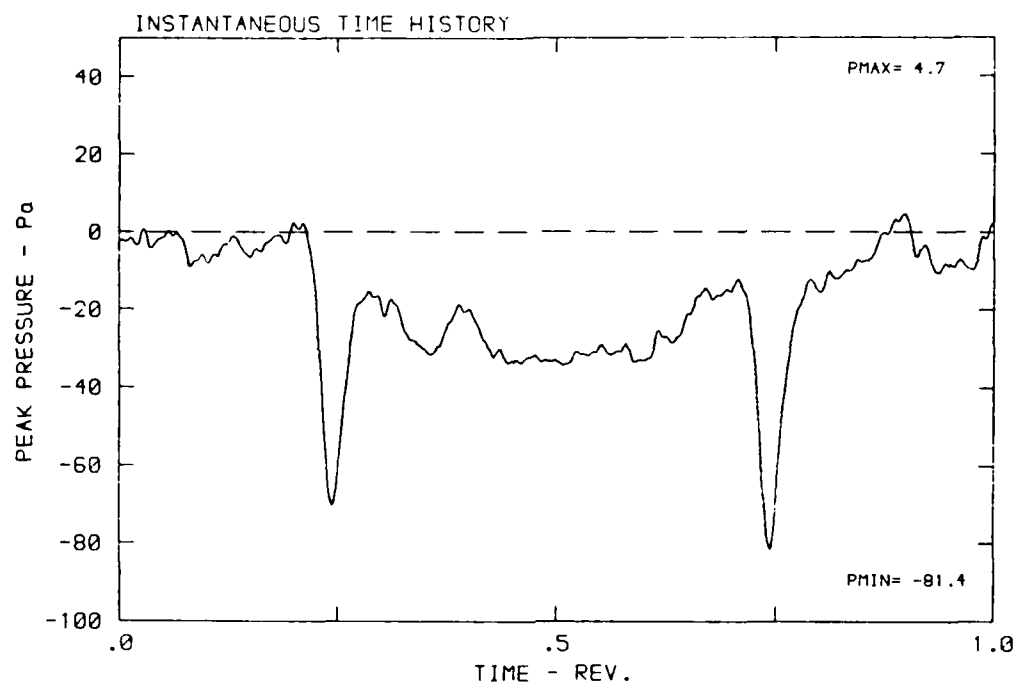
DATA POINT: AC-4 RUN: 80 MP: 2

β : 21.6° MH: .7850 n: 2400 rpm v/u : .302 ϕ : .0° T: 287.2 K



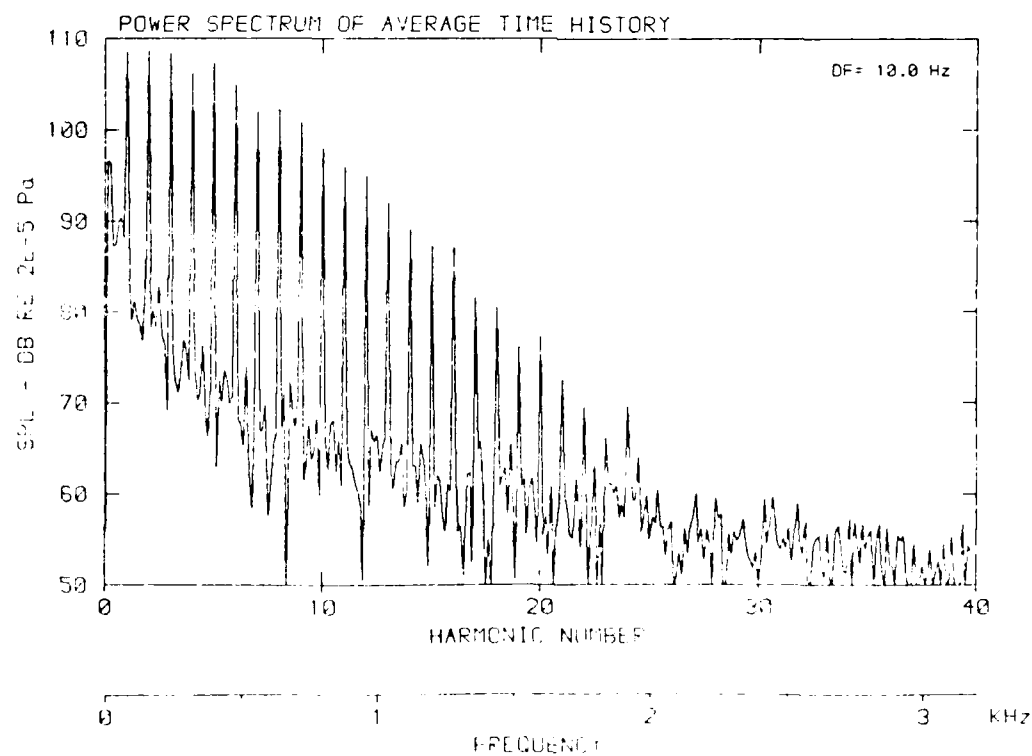
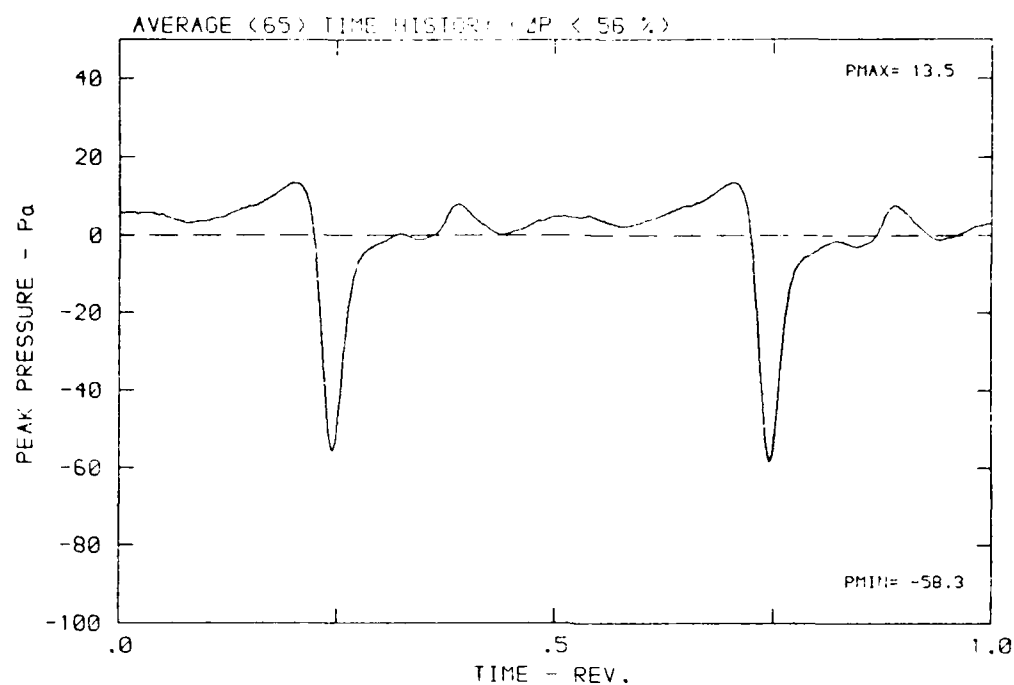
DATA POINT: AC-4 RUN: 80 MP: 3

β : 21.6° MH: .7850 n: 2400 rpm v/u : .302 ϕ : .0° T: 267.2 K



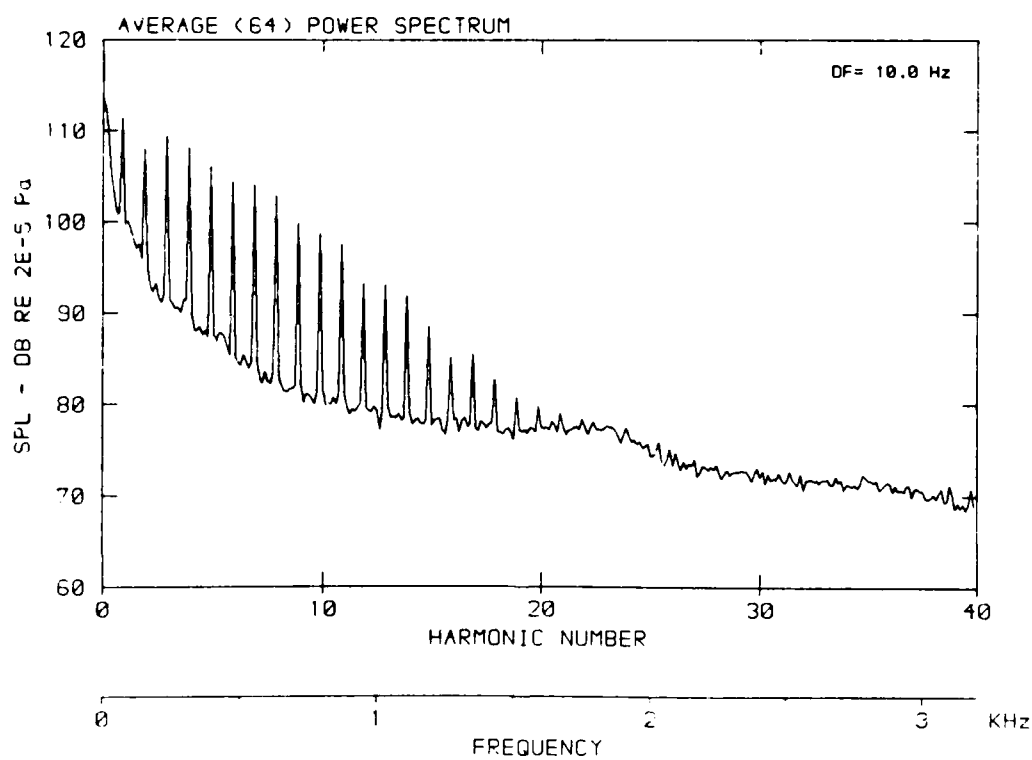
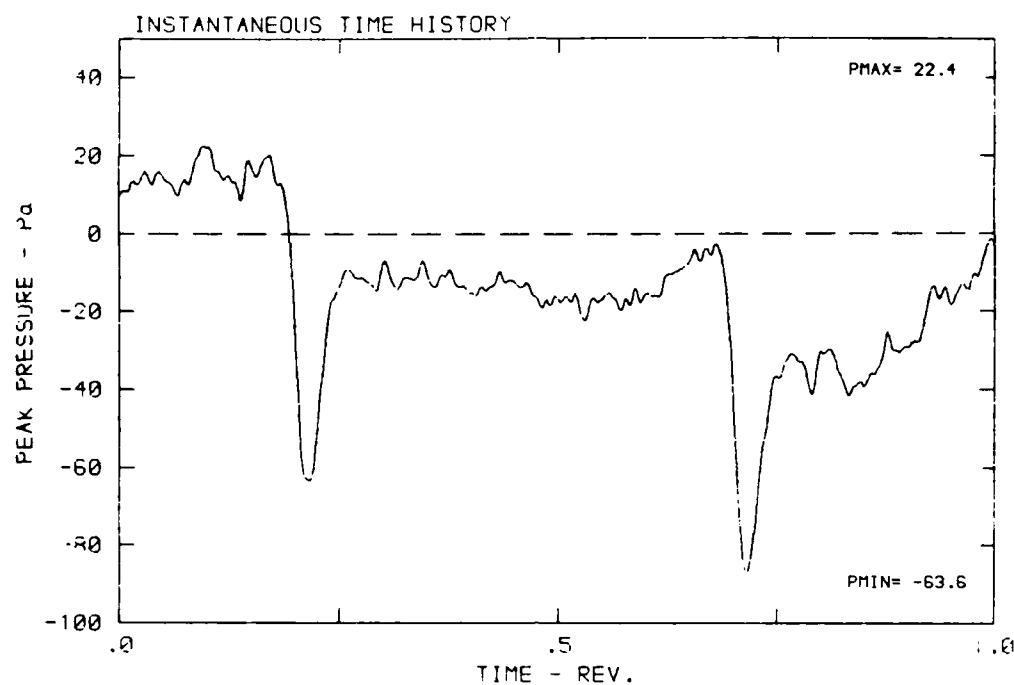
DATA POINT: AC-4 RUN: 80 MP: 3

β : 21.6° MH: .7850 n: 2400 rpm v/u : .302 ϕ : .0° T: 287.2 K



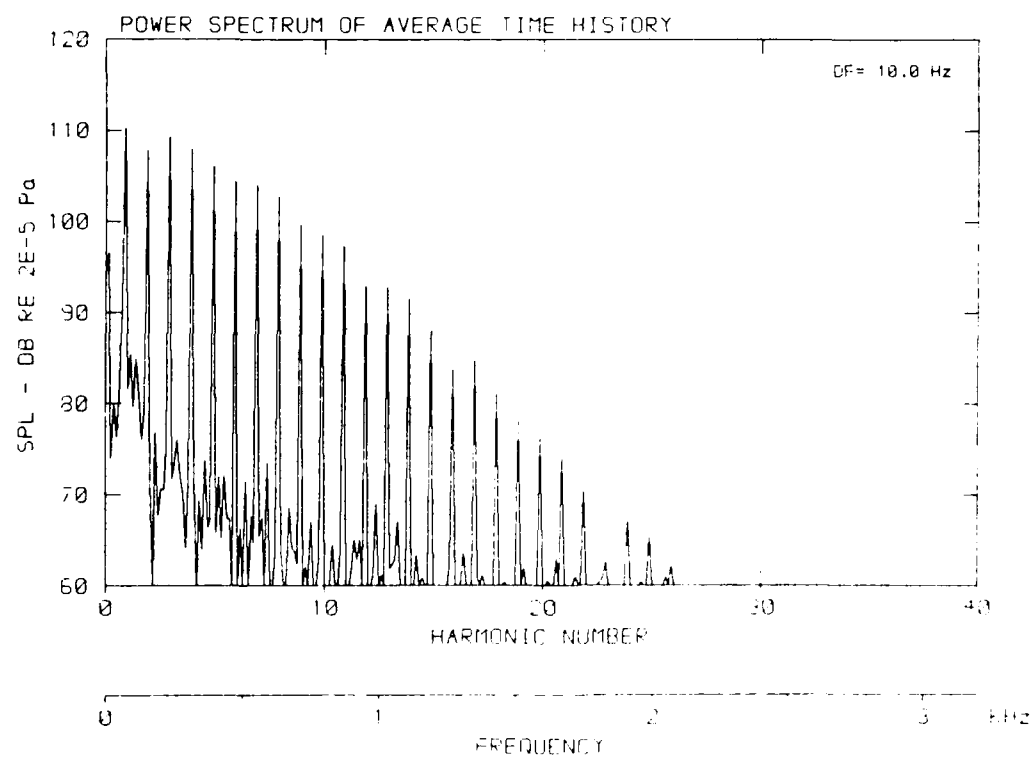
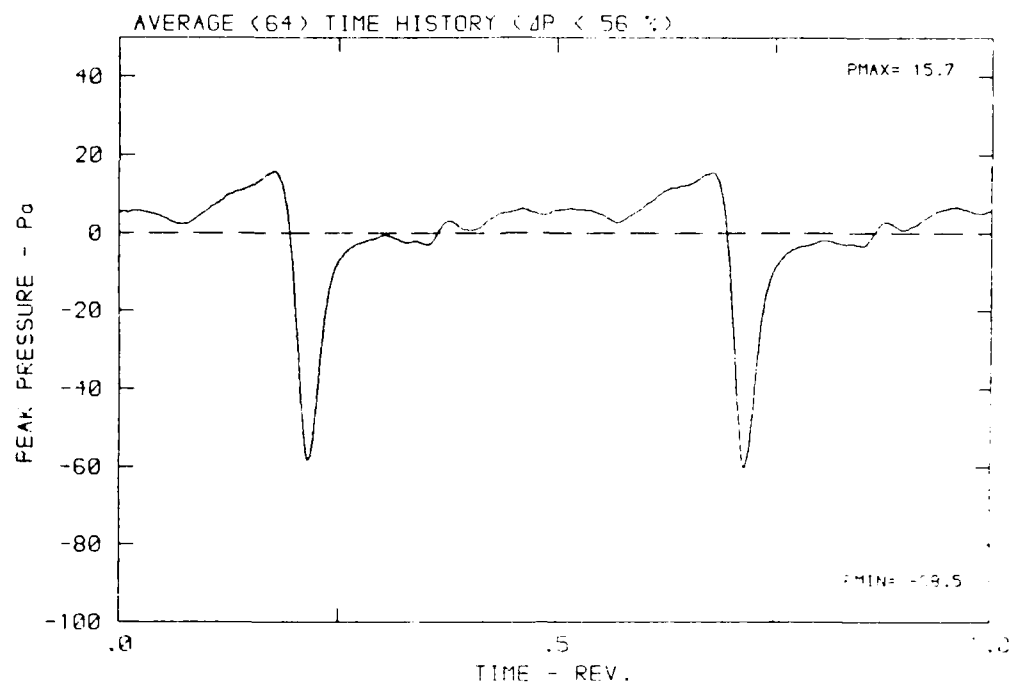
DATA POINT: AC-4 RUN: 80 MP: 4

β : 21.6° MH: .7850 n: 2400 rpm v/u: .302 ϕ : .0° T: 287.2 K



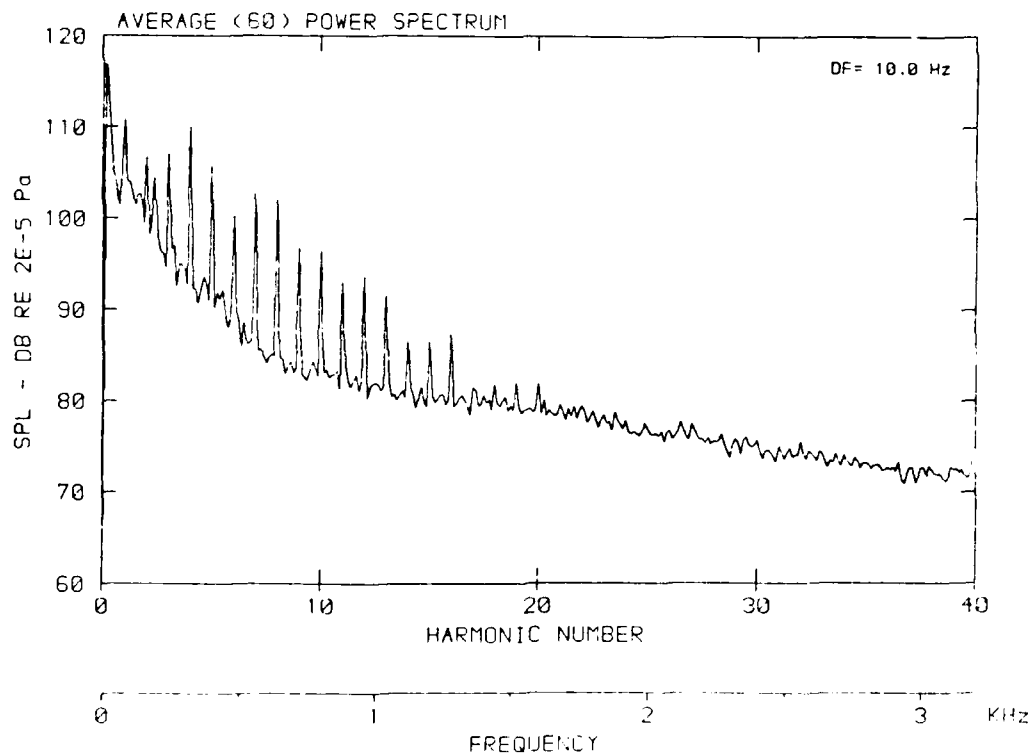
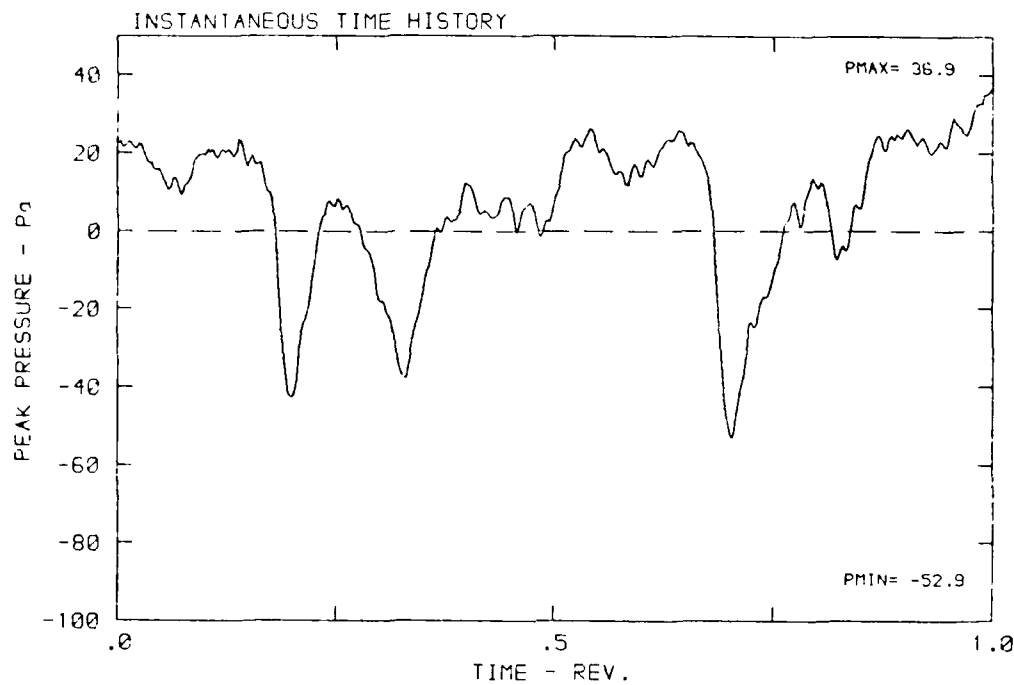
DATA POINT: AC-4 RUN: 80 MP: 4

β : 21.6° MH: .7850 n: 2400 rpm v/u : .302 ϕ : .0° T: 287.2 K



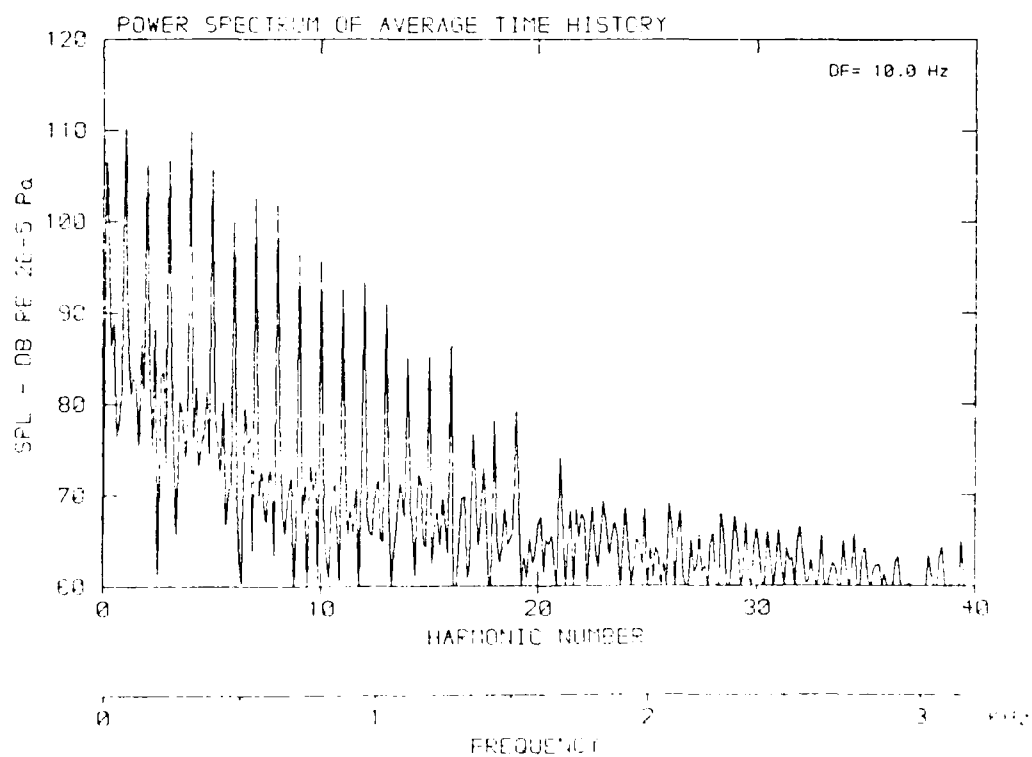
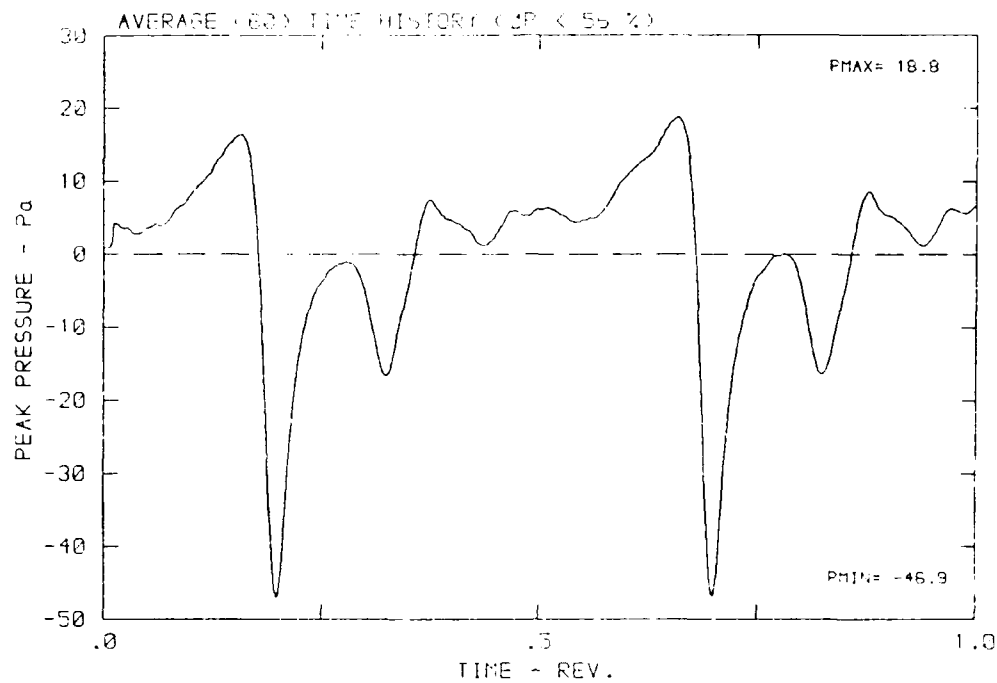
DATA POINT: AC-4 RUN: 80 MP: 5

β : 21.6° MH: .7850 n: 2400 rpm v/u : .302 ϕ : .0° T: 267.2 K



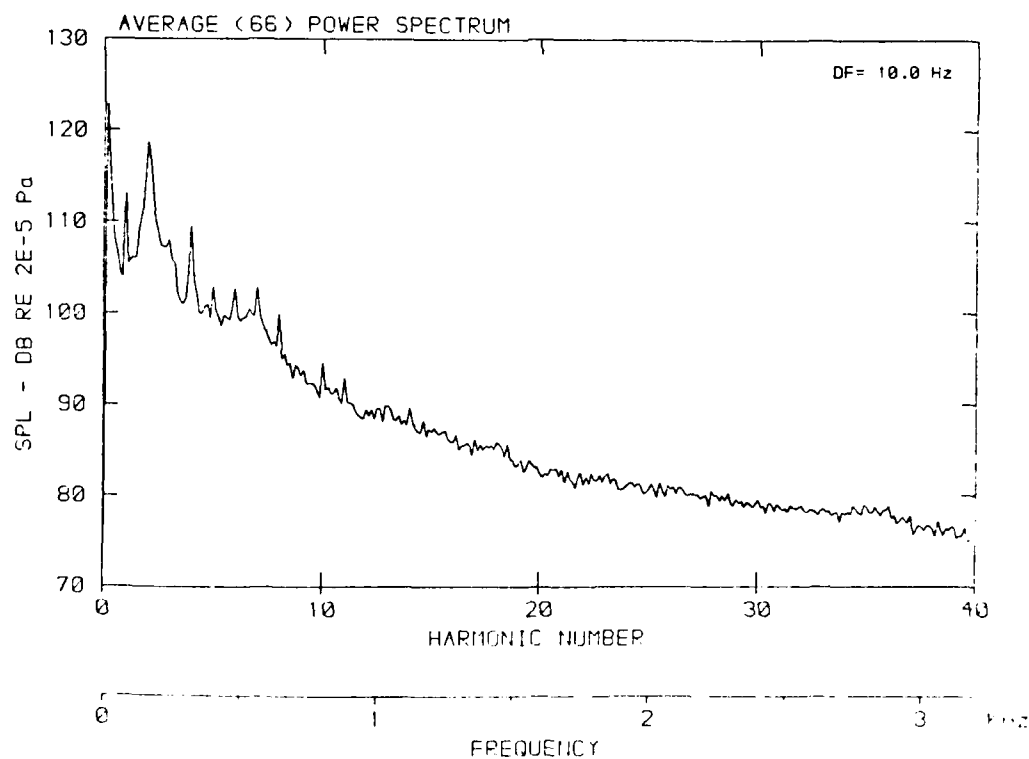
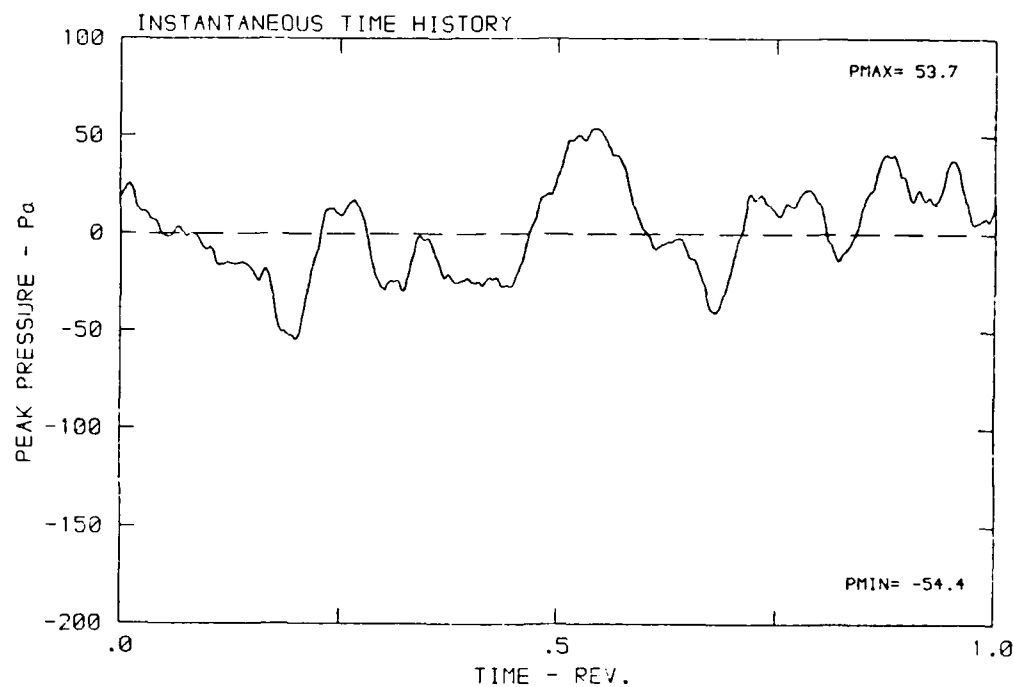
DATA POINT: AC-4 RUN: 80 MP: 5

β : 21.6° MH: .7850 n: 2400 rpm v/u : .302 ϕ : .0° T: 287.2 K



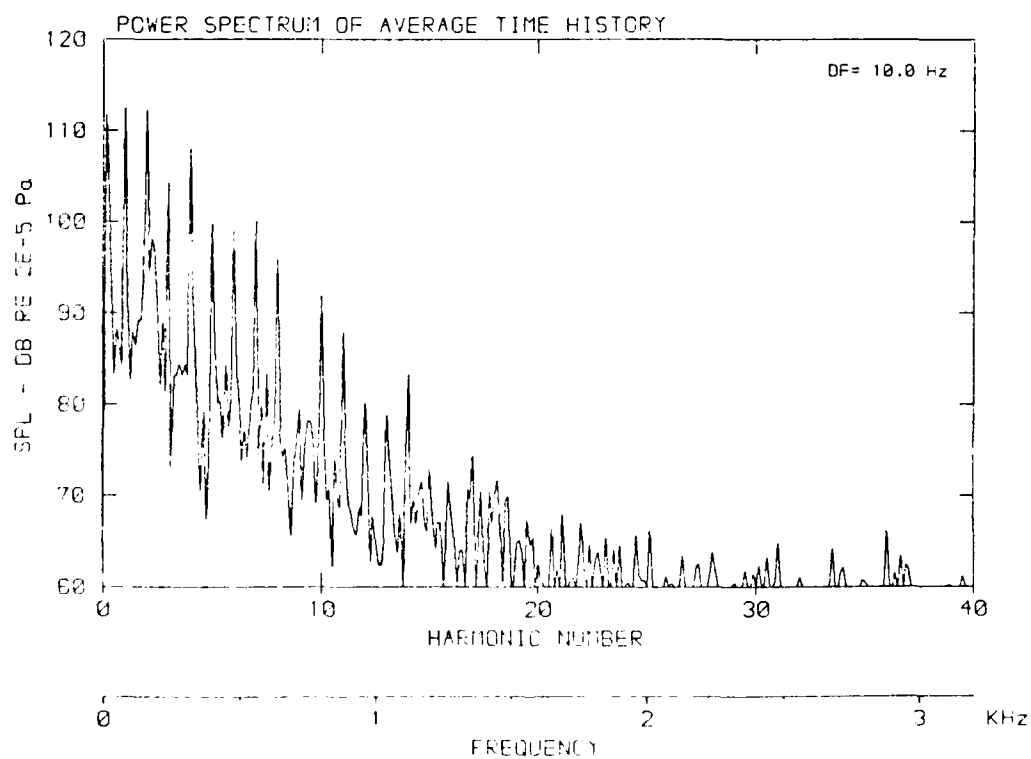
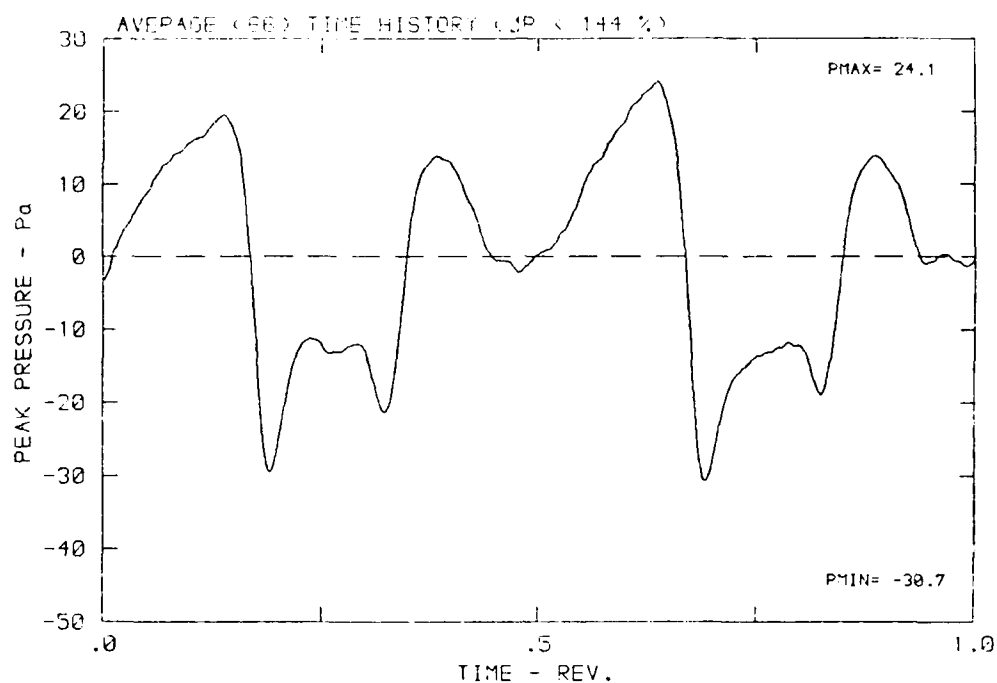
DATA POINT: AC-4 RUN: 80 MP: 6

β : 21.6° MH: .7850 n: 2400 rpm v/u: .302 ϕ : .0° T: 287.2 K



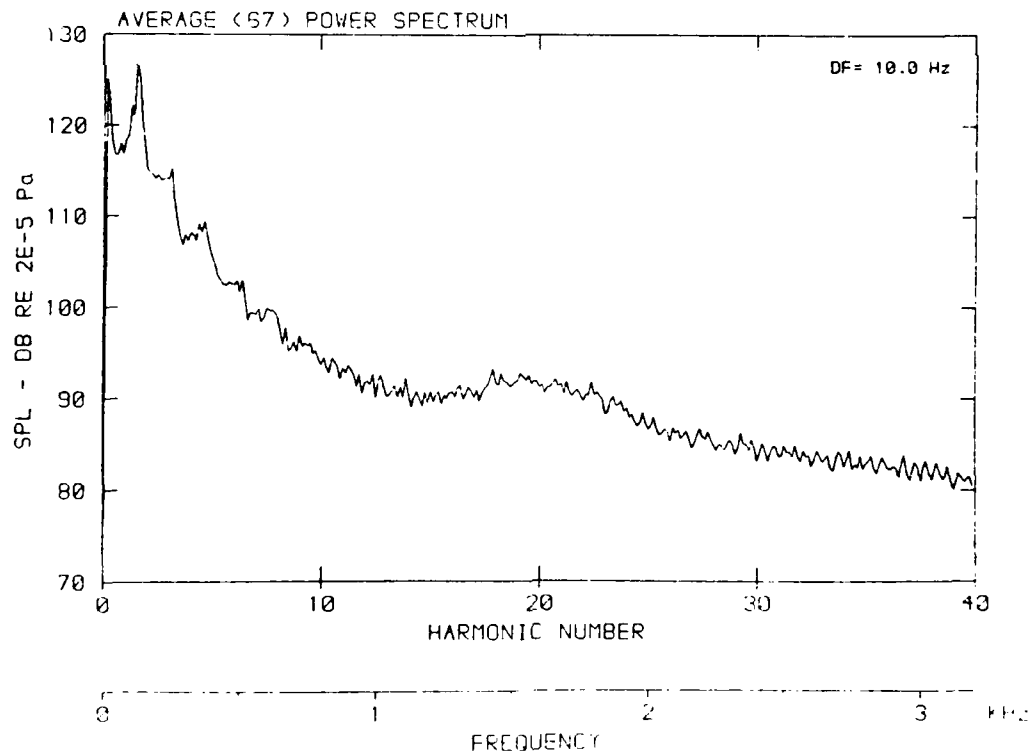
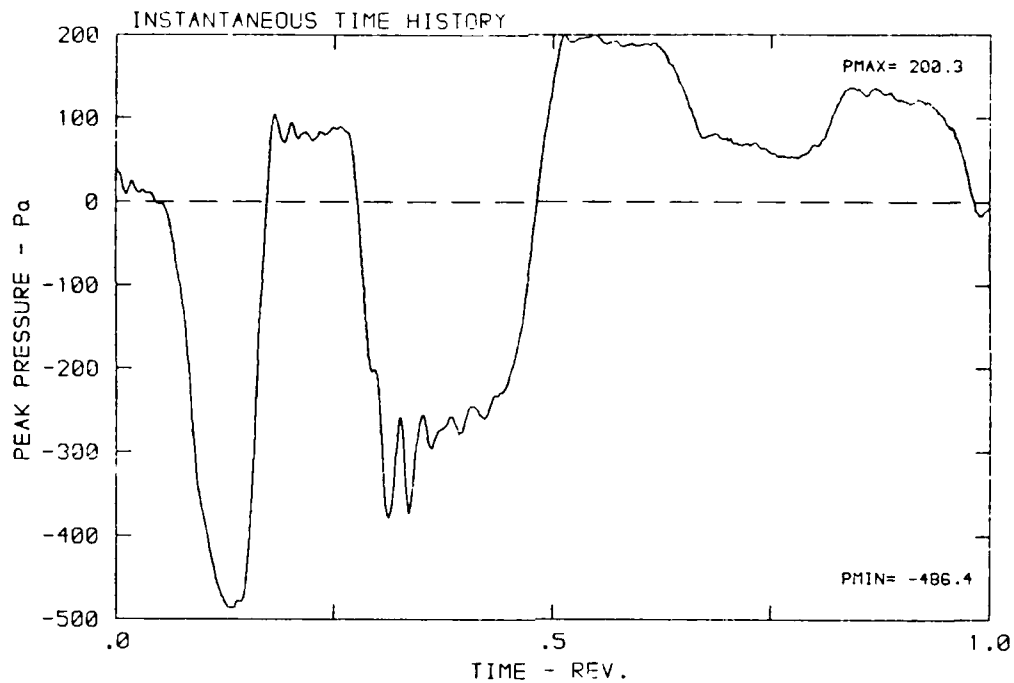
DATA POINT: AC-4 RUN: 80 MP: 6

β : 21.6° MH: .7850 n: 2400 rpm v_{tu} : .302 ϕ : .0° T: 267.2 K



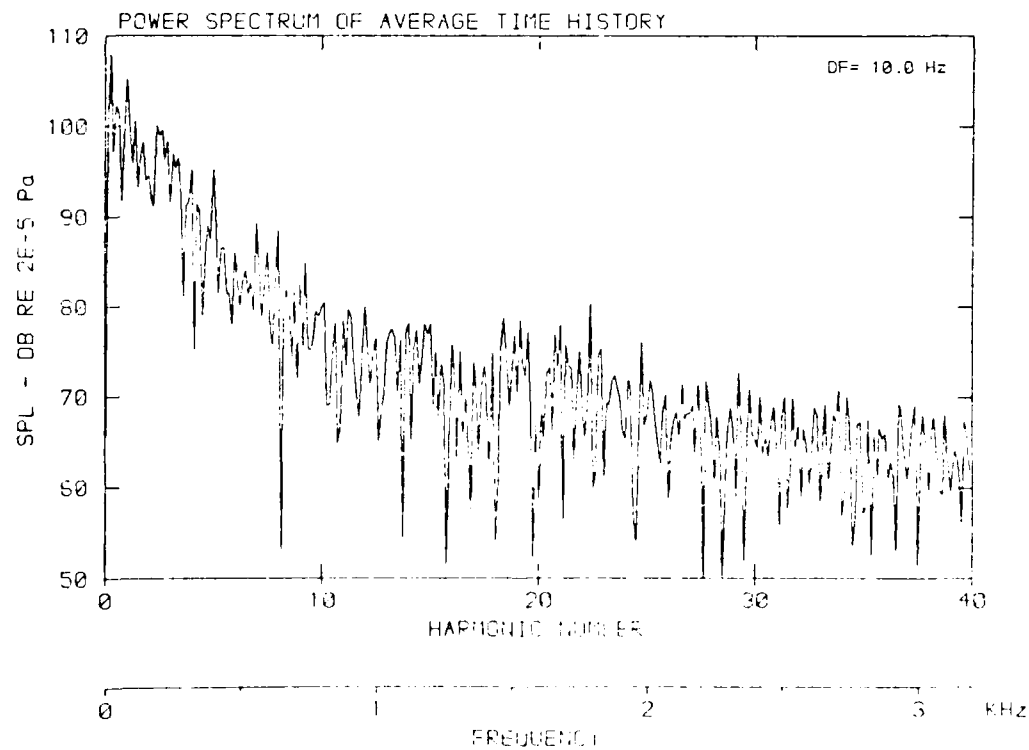
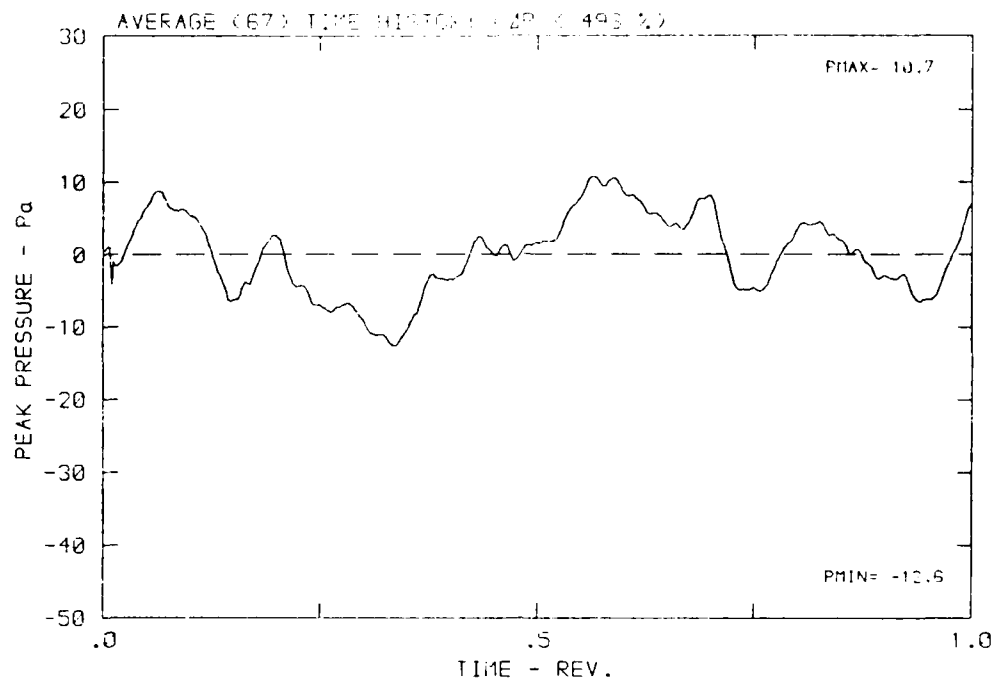
DATA POINT: AC-4 RUN: 80 MP: 7

β : 21.6° MH: .7350 n: 2400 rpm v/u: .302 ϕ : .0° T: 287.2 K



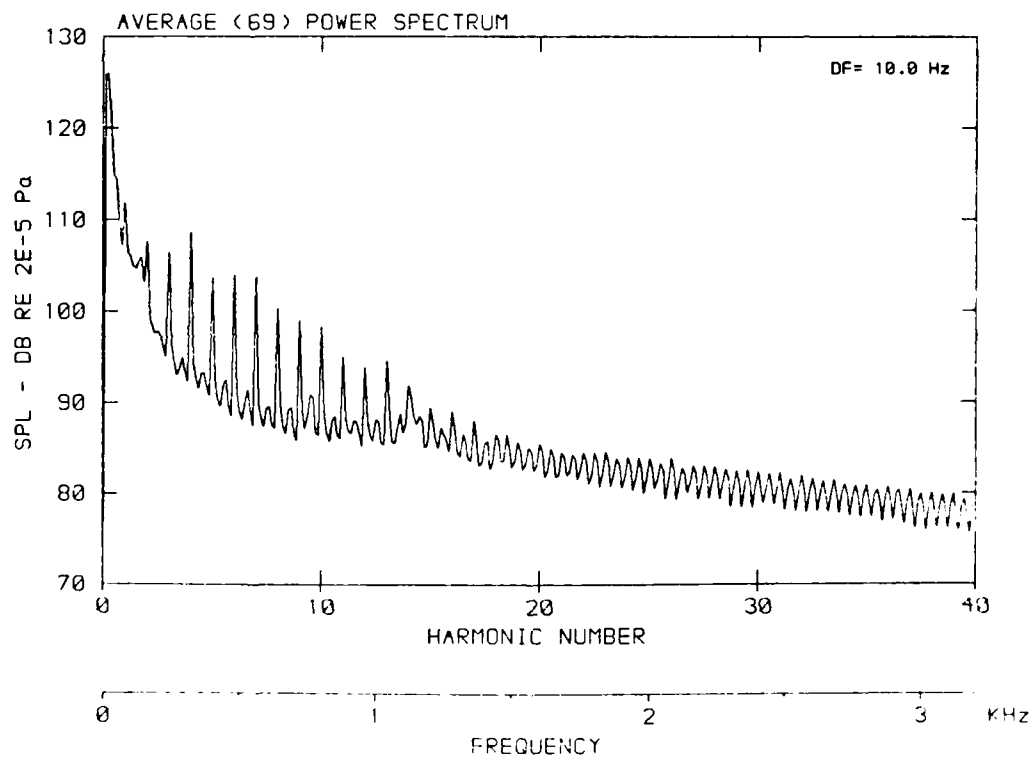
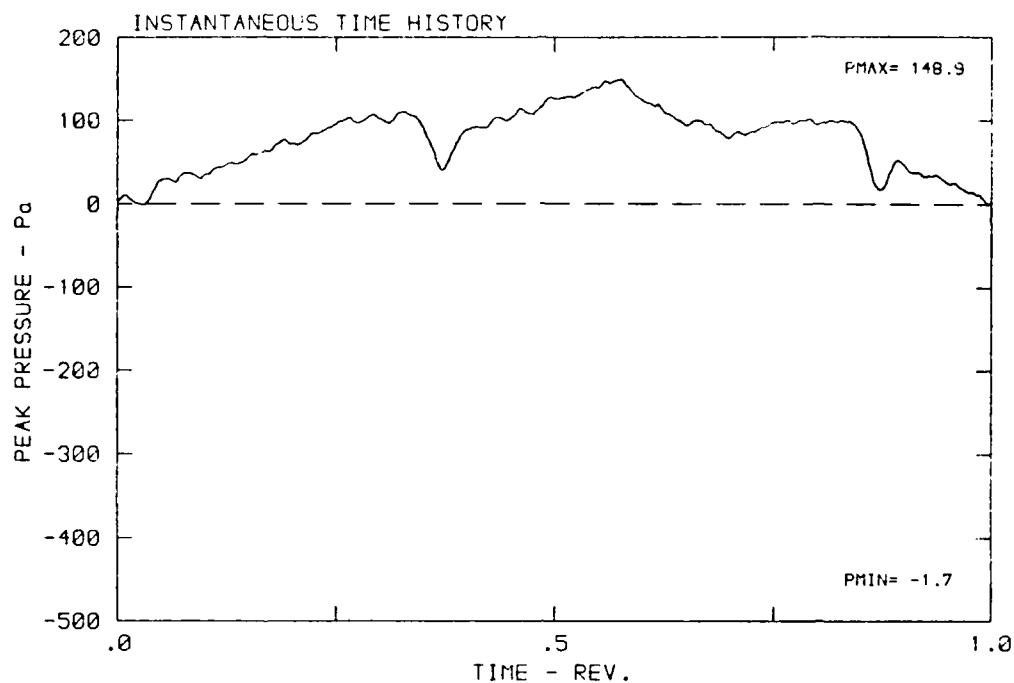
DATA POINT: AC-4 RUN: 80 MP: 7

β : 21.6° MH: .7850 n: 2400 rpm v u: .302 ϕ : .0° T: 287.2 K



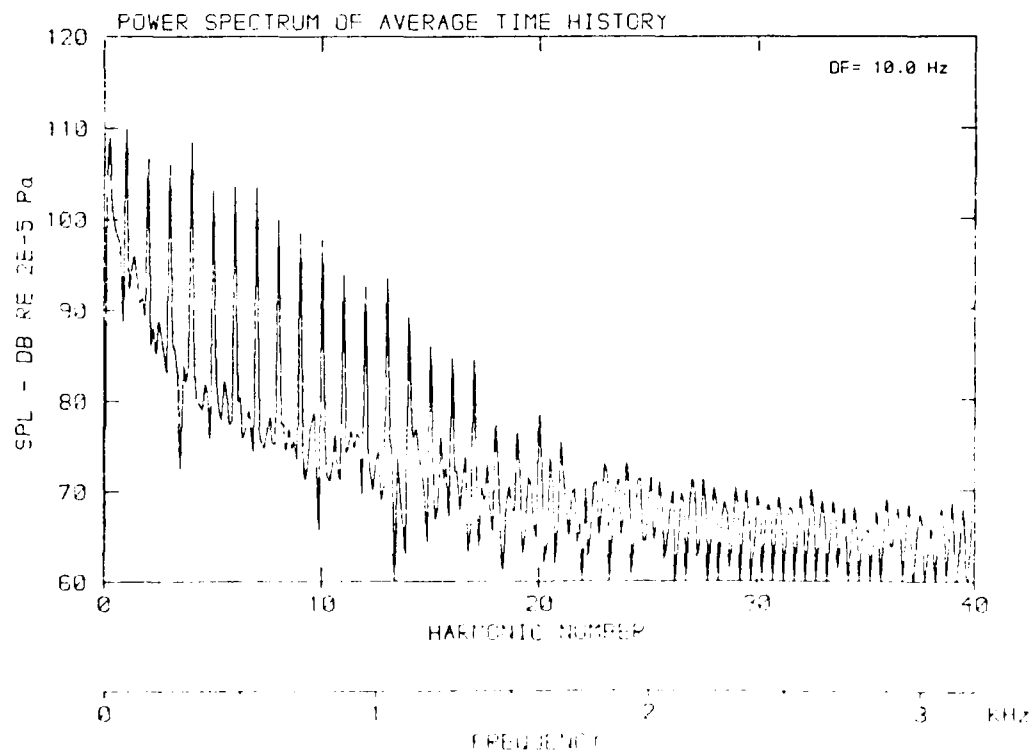
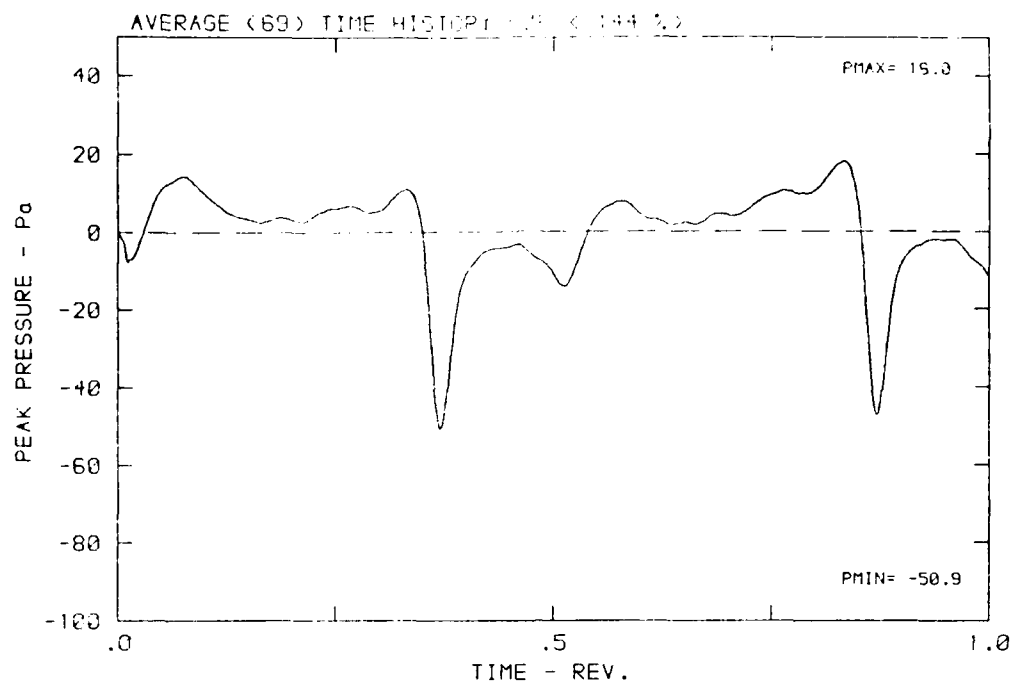
DATA POINT: AC-4 RUN: 80 MP: 9

β : 21.6° MH: .7850 n: 2400 rpm v/u : .302 ϕ : .0° T: 297.2 K



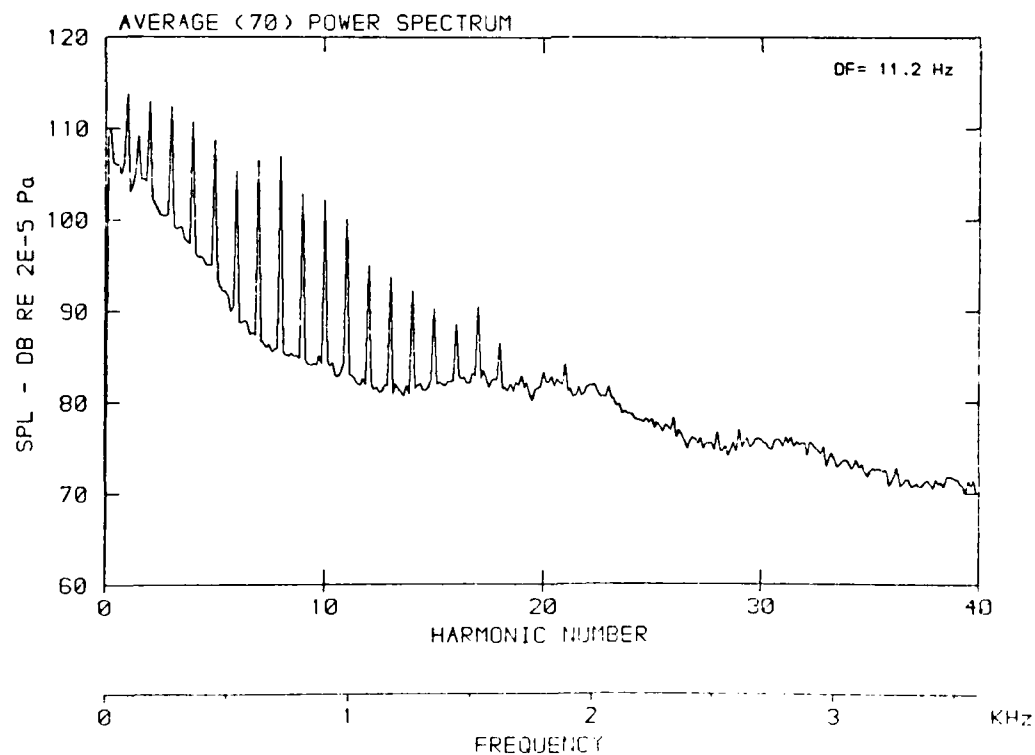
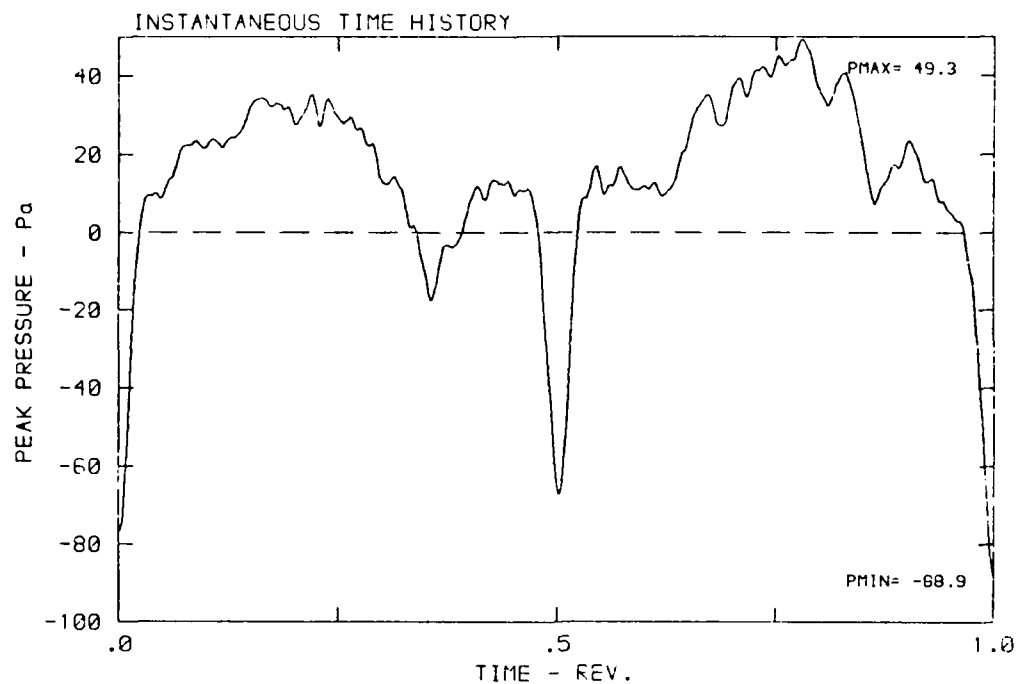
DATA POINT: AC-4 RUN: 80 MF: 9

β : 21.6° MH: .7850 n: 2400 rpm γ : .302 ϕ : .0° T: 287.2 K



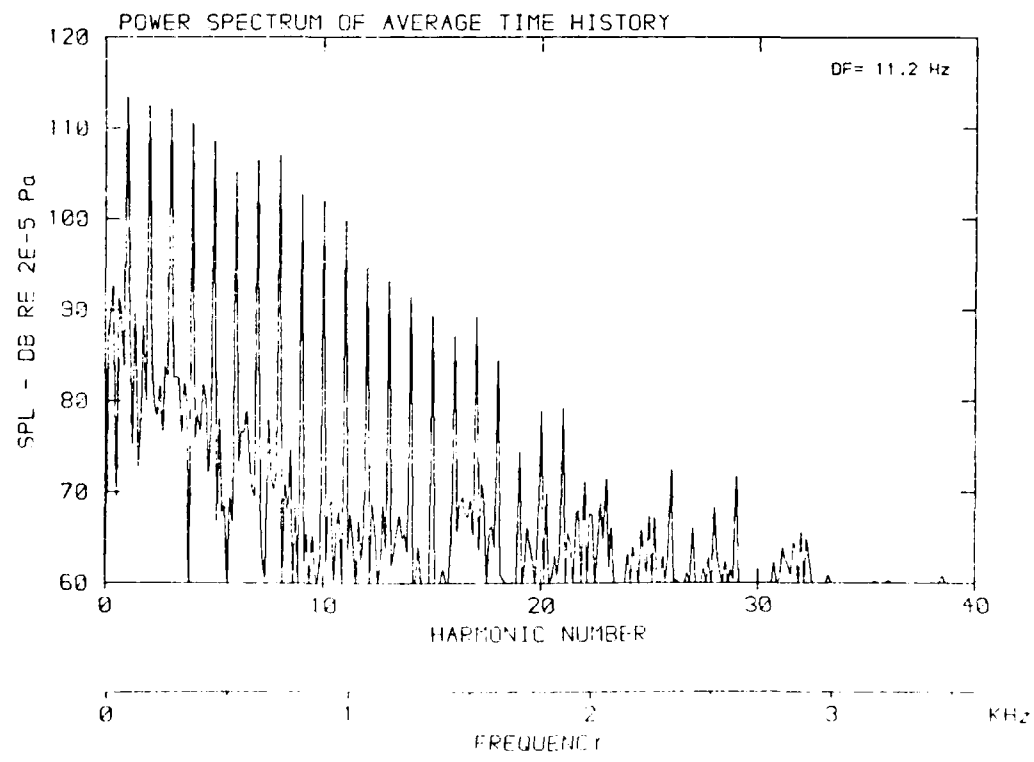
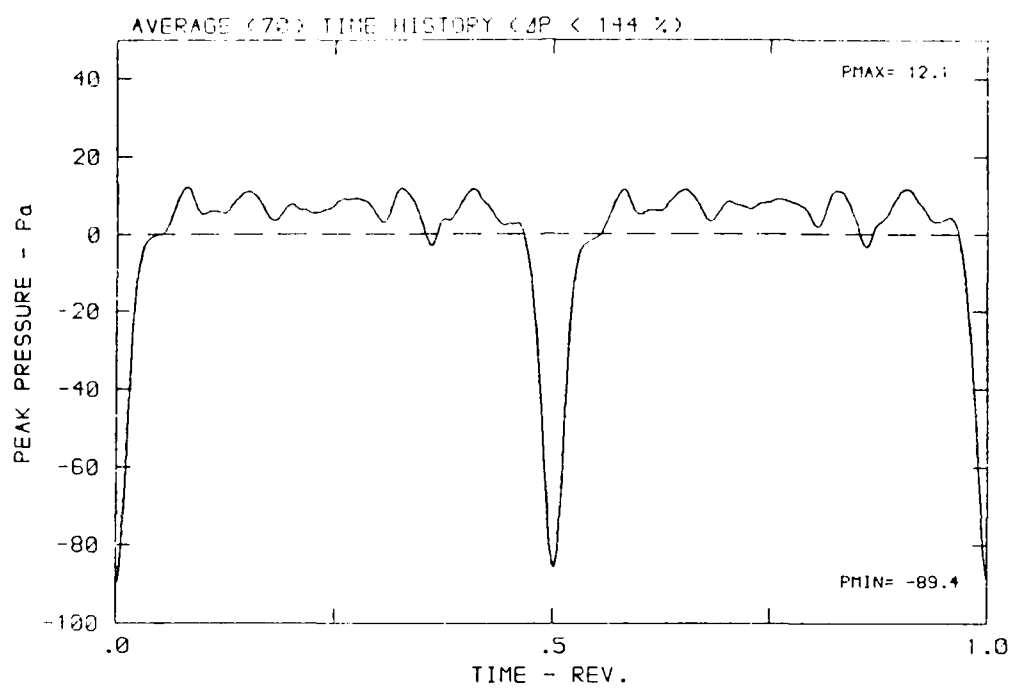
DATA POINT : AC-5 RUN : 81 MP : 1

β : 21.6° MH: .8740 n: 2700 rpm v/u: .267 ψ : .0° T: 283.0 K



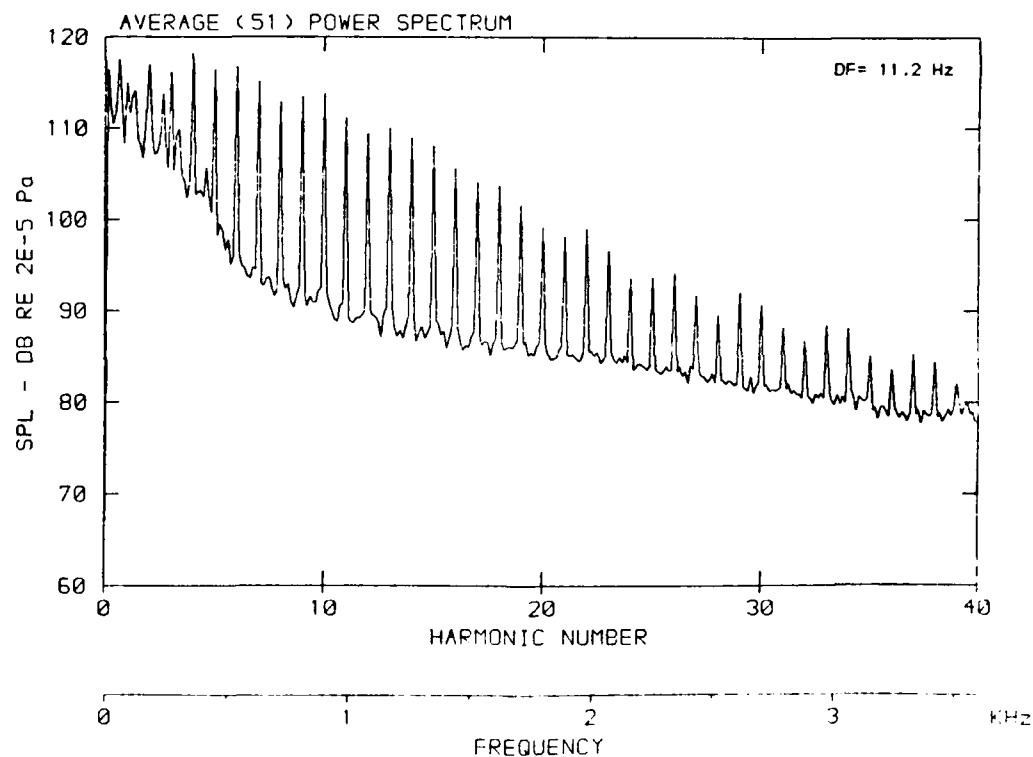
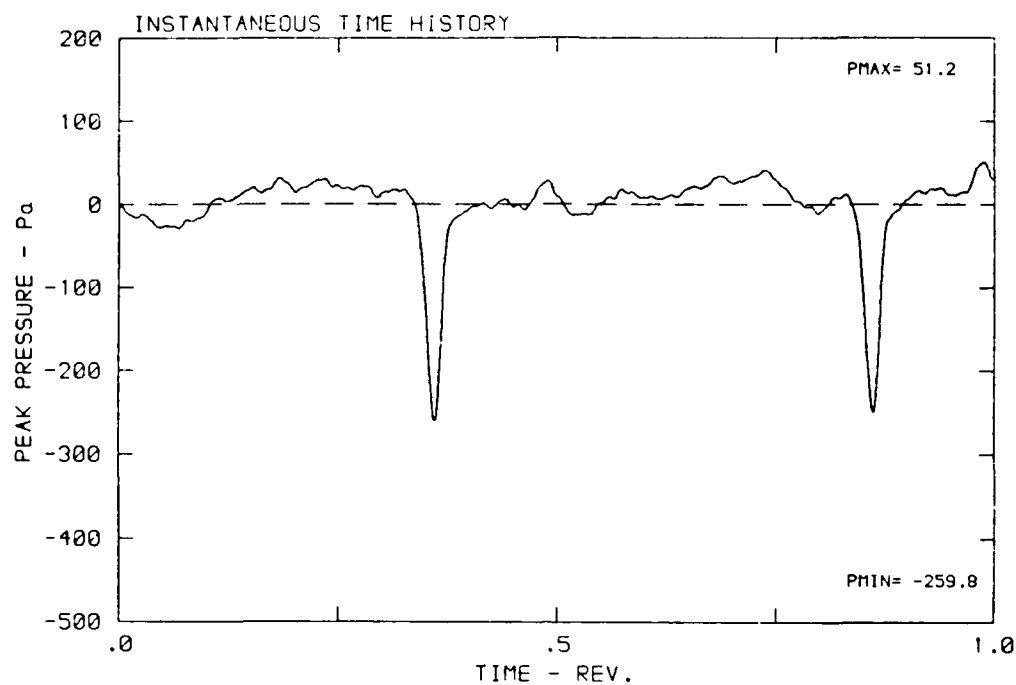
DATA POINT: AC-5 RUN: 81 MP: 1

β : 21.6° MH: .8740 n: 2700 rpm v/u : .267 ϕ : .0° T: 288.0 K



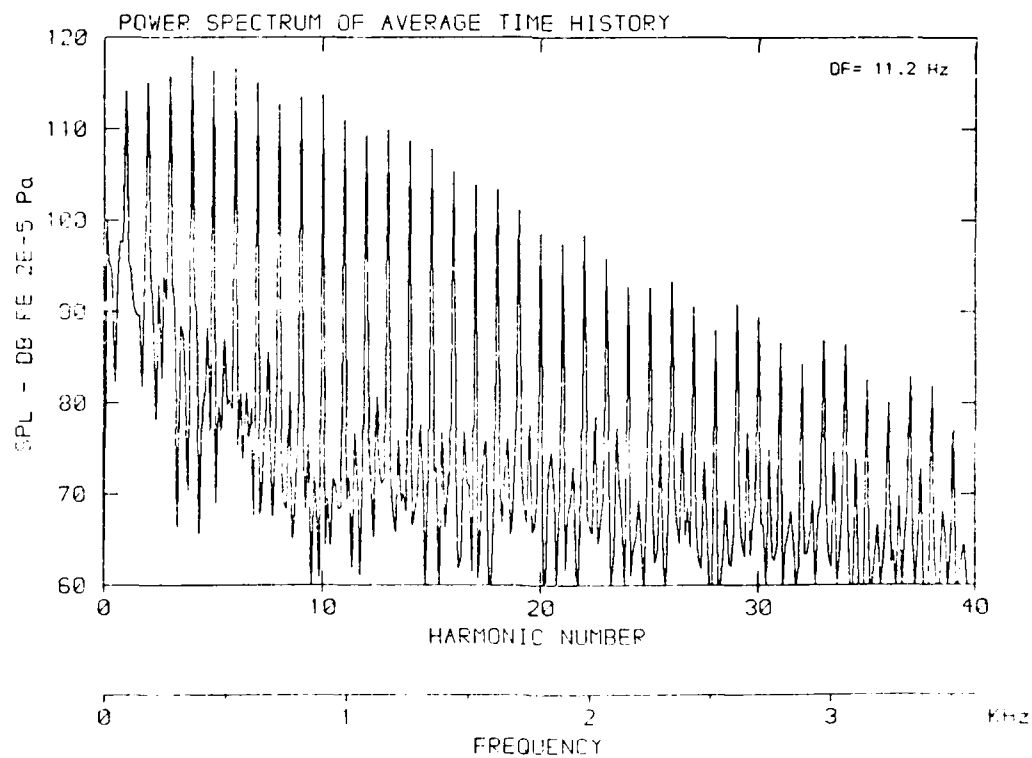
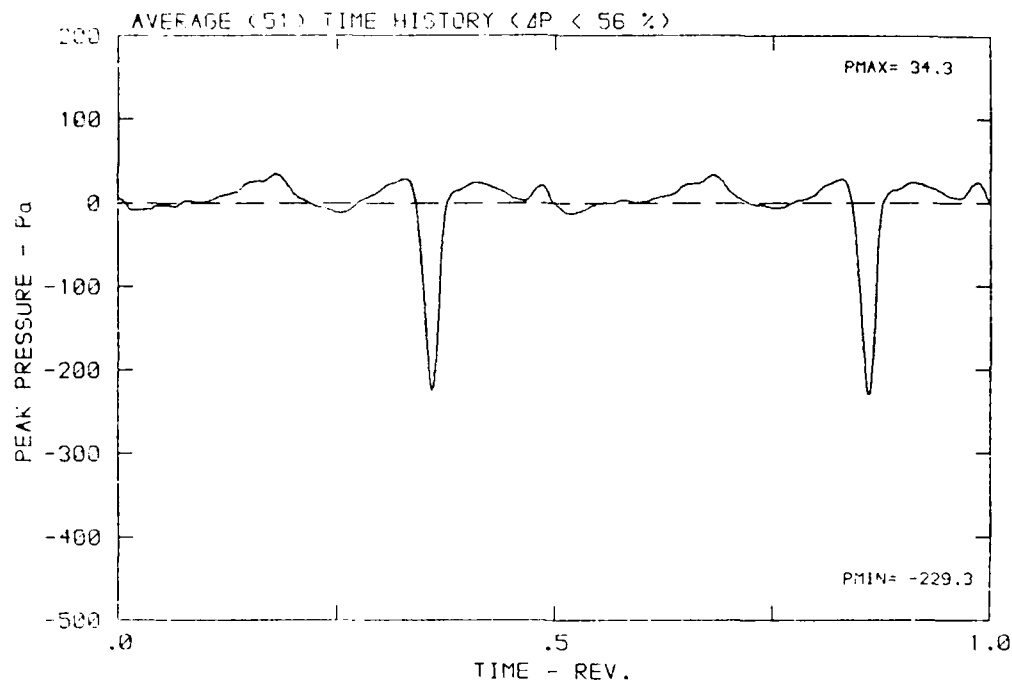
DATA POINT: AC-5 RUN: 81 MP: 2

β : 21.6° MH: .8740 n: 2700 rpm v/u : .267 ϕ : .0° T: 288.0 K



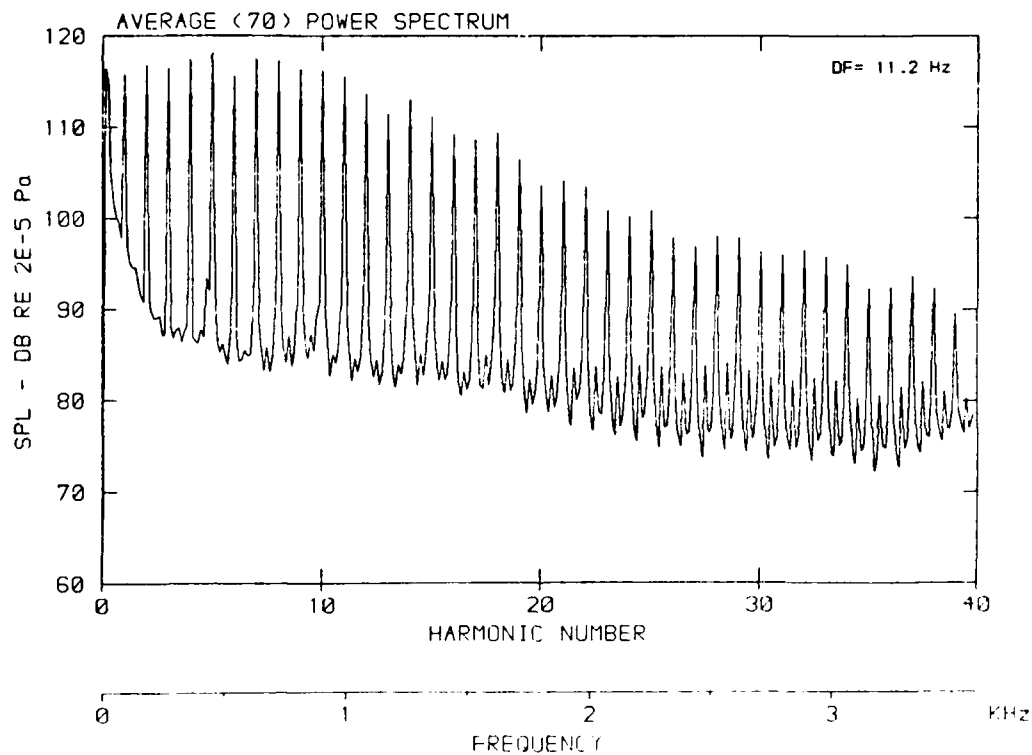
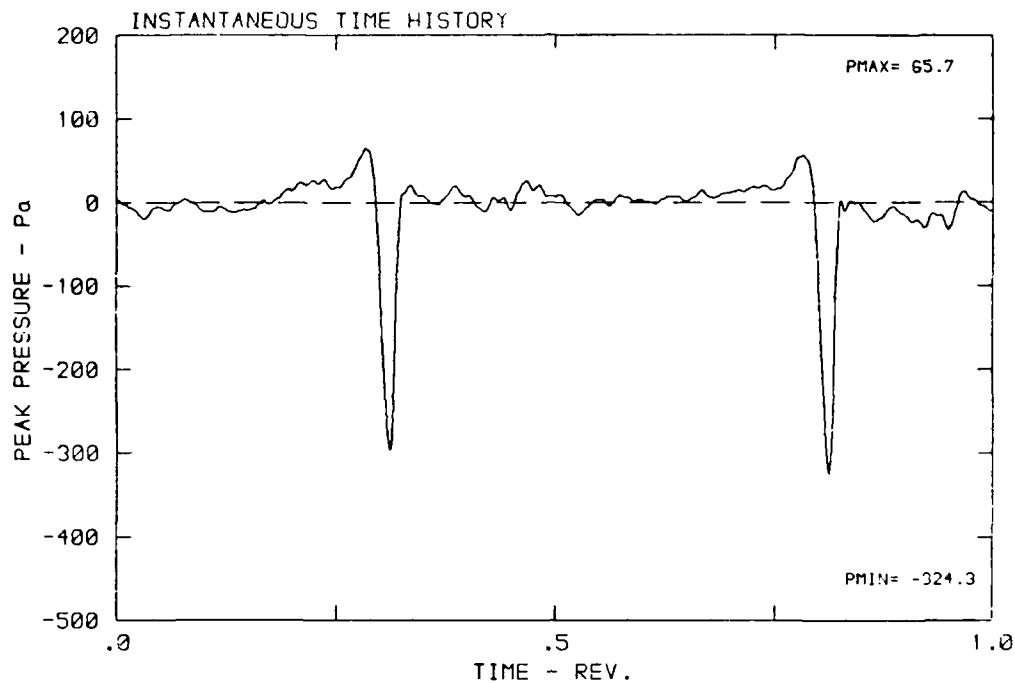
DATA POINT: AC-5 RUN: 81 MP: 2

β : 21.6° MH: .8740 n: 2700 rpm v/u : .267 ϕ : .0° T: 288.0 K



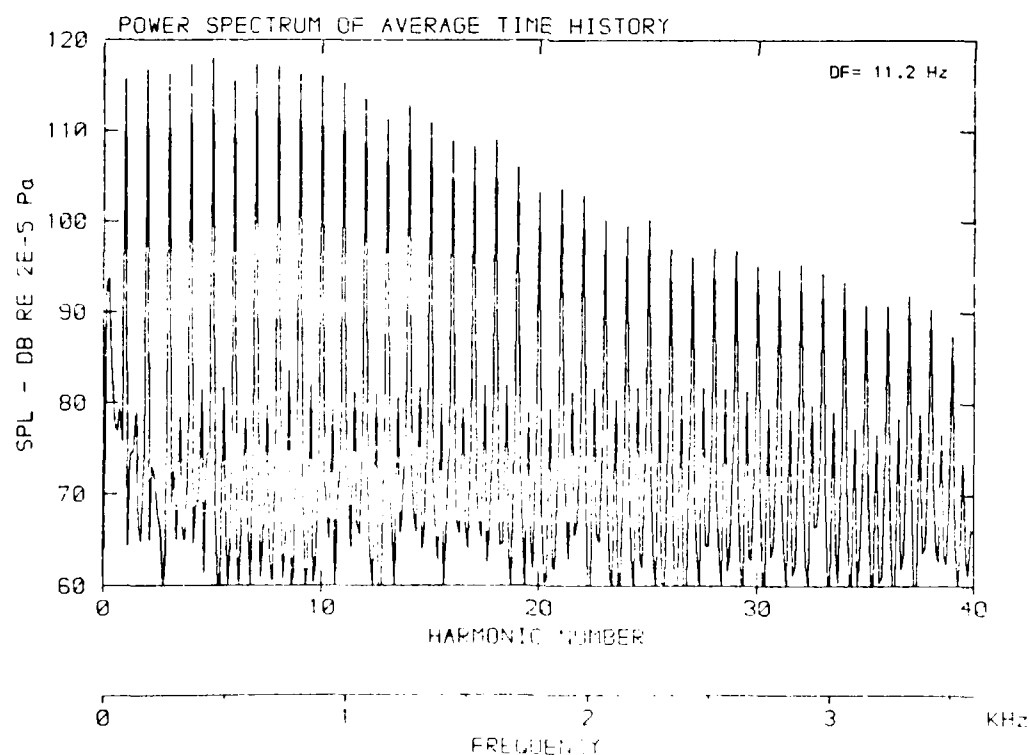
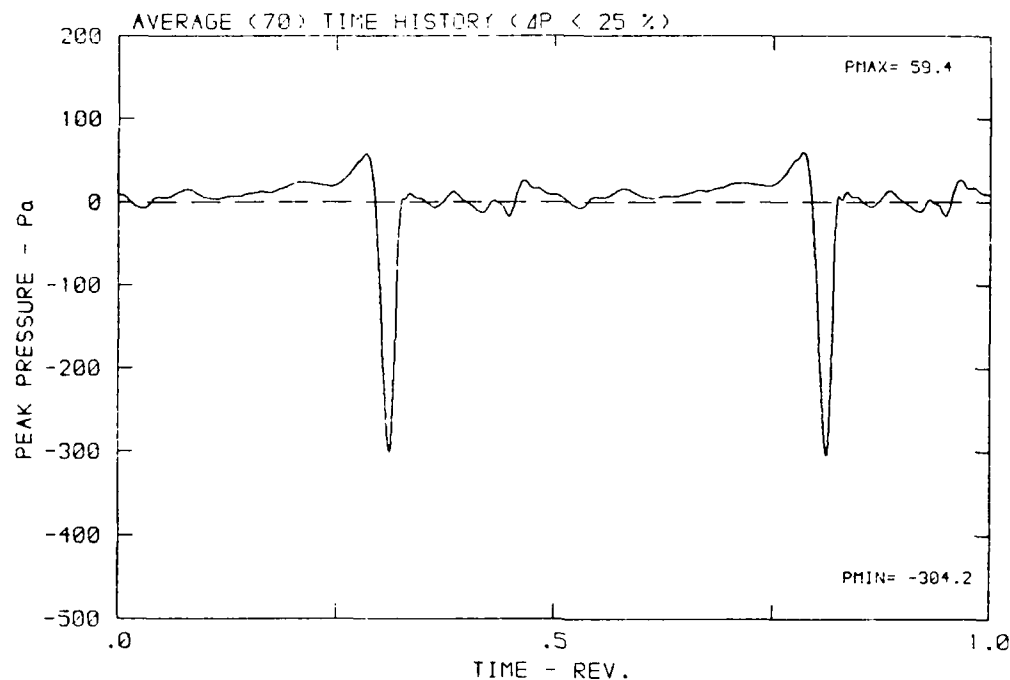
DATA POINT: AC-5 RUN: 81 MP: 3

β : 21.6° MH: .8740 n: 2700 rpm v/u: .267 ϕ : .0° T: 288.0 K



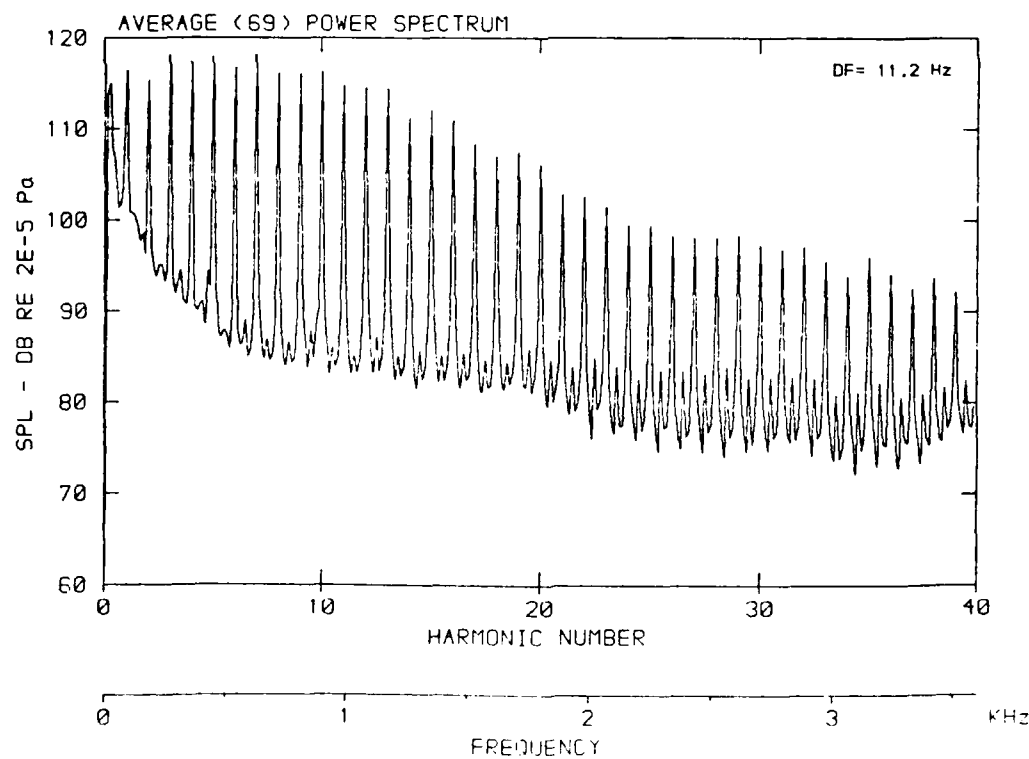
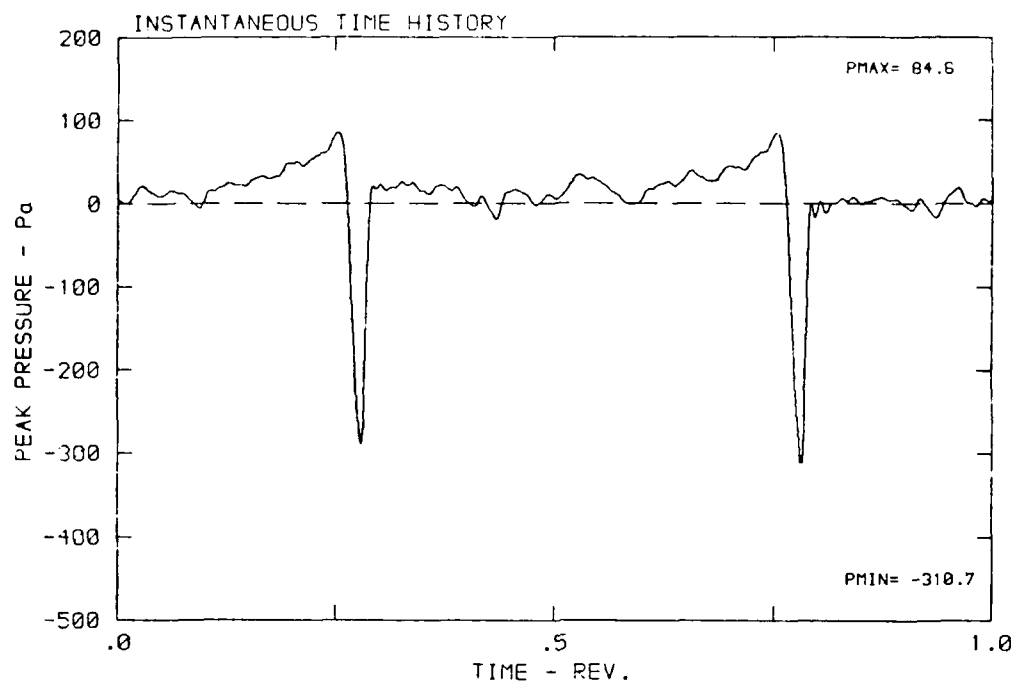
DATA POINT: AC-5 RUN: 81 MP: 3

β : 21.6° MH: .8740 n: 2700 rpm v/u : .267 ϕ : .0° T: 288.0 K



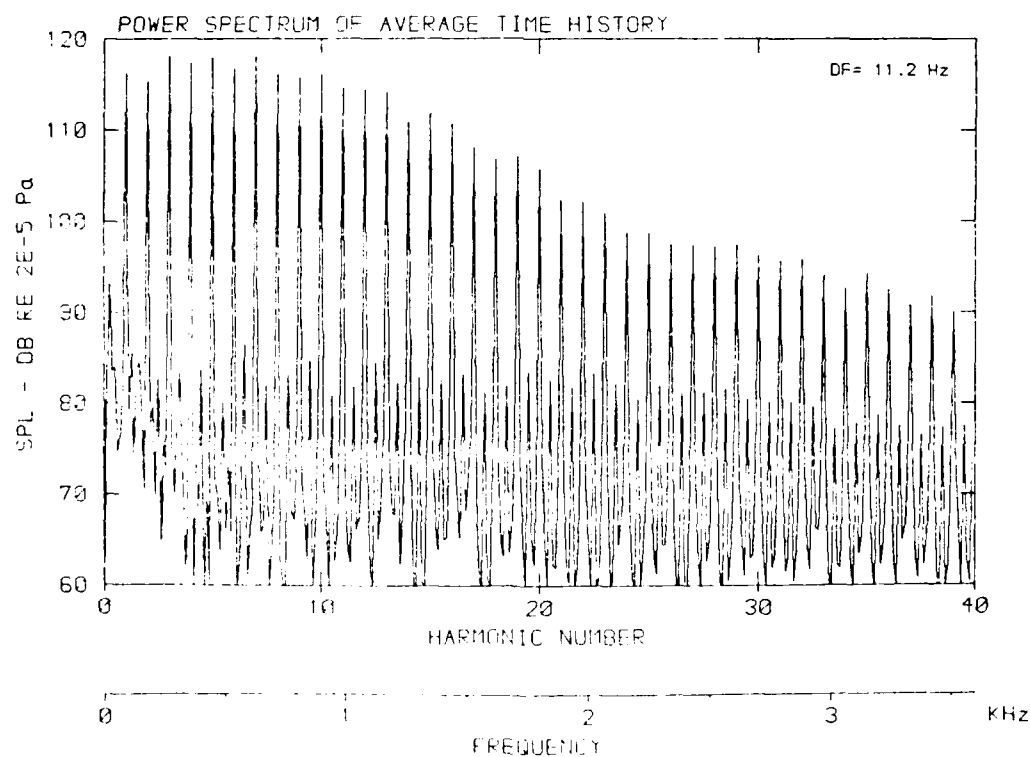
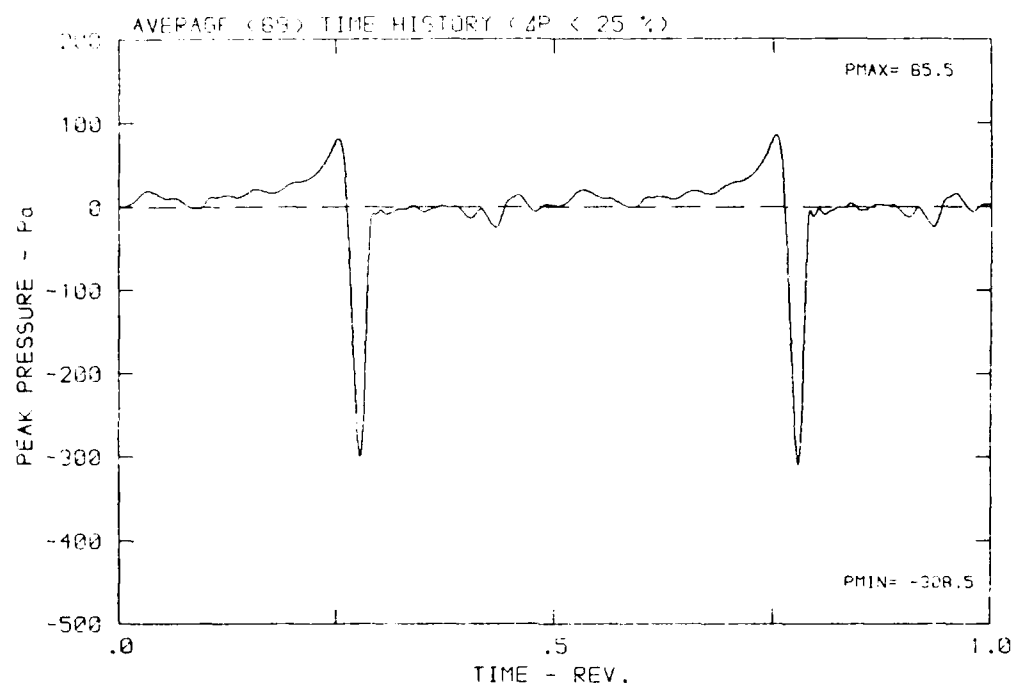
DATA POINT: AC-5 RUN: 81 MP: 4

β : 21.6° MH: .8740 n: 2700 rpm v/u: .267 ϕ : .0° T: 288.0 K



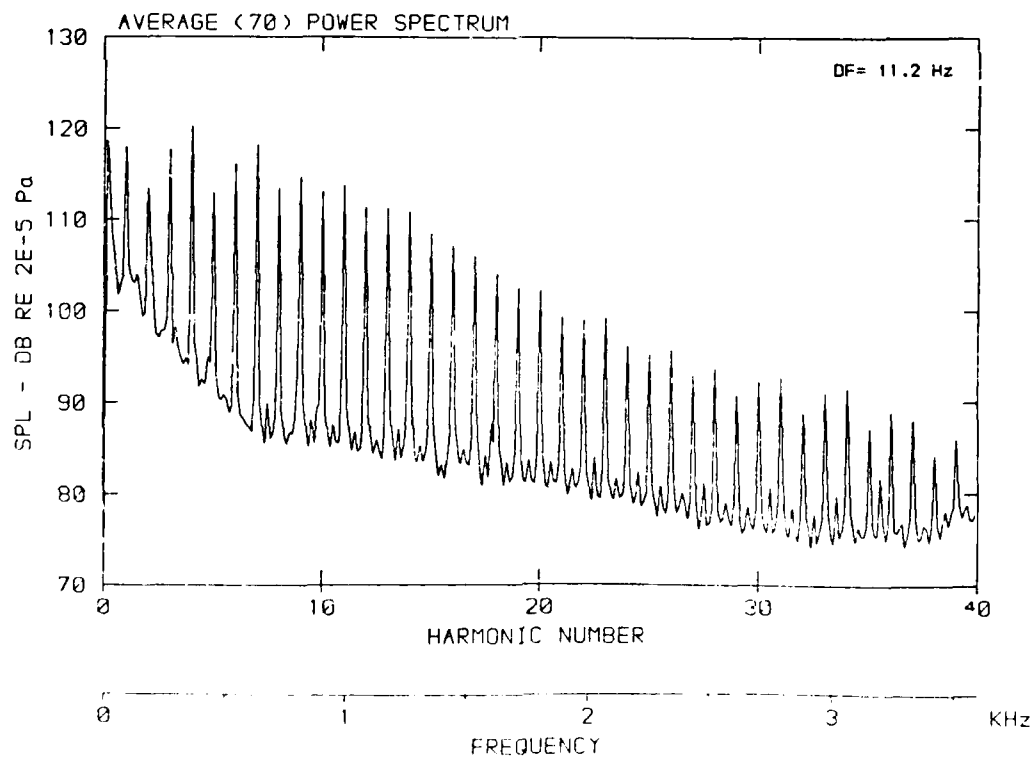
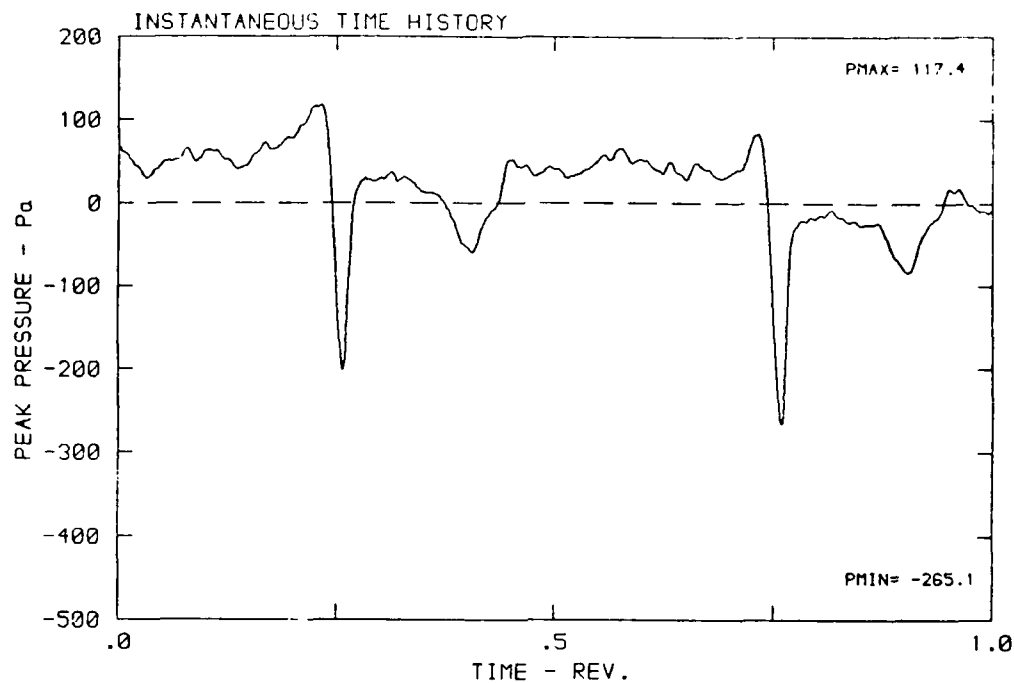
DATA POINT: AC-5 RUN: 81 MP: 4

β : 21.6° MH: .8740 n: 2700 rpm v/u : .267 ϕ : .0° T: 288.0 K



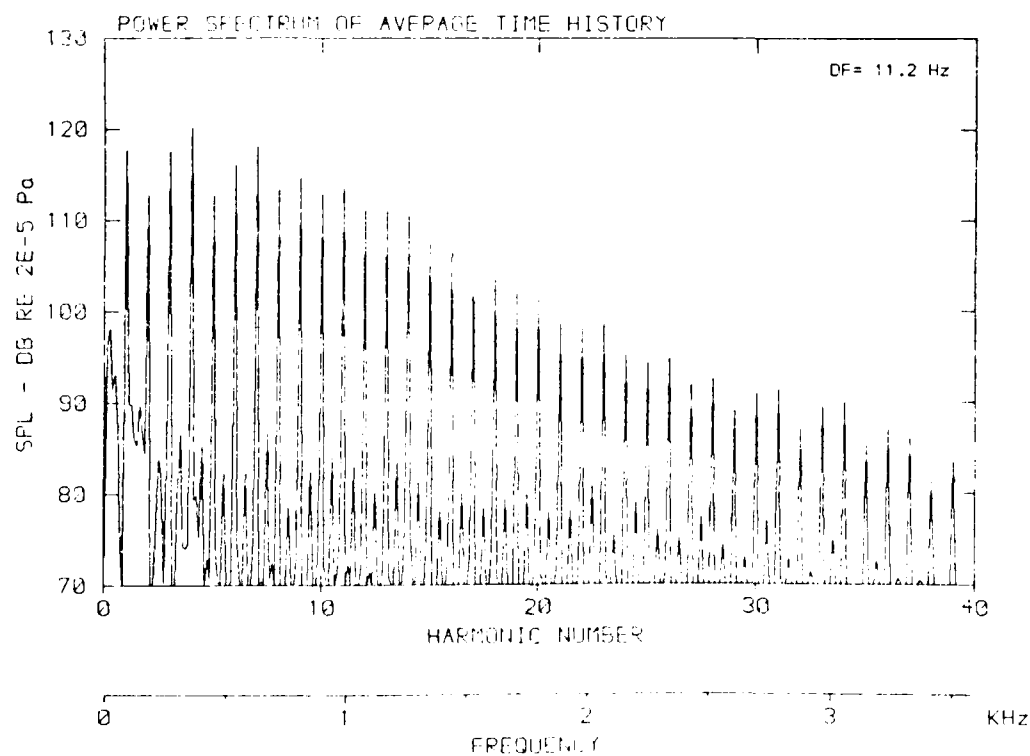
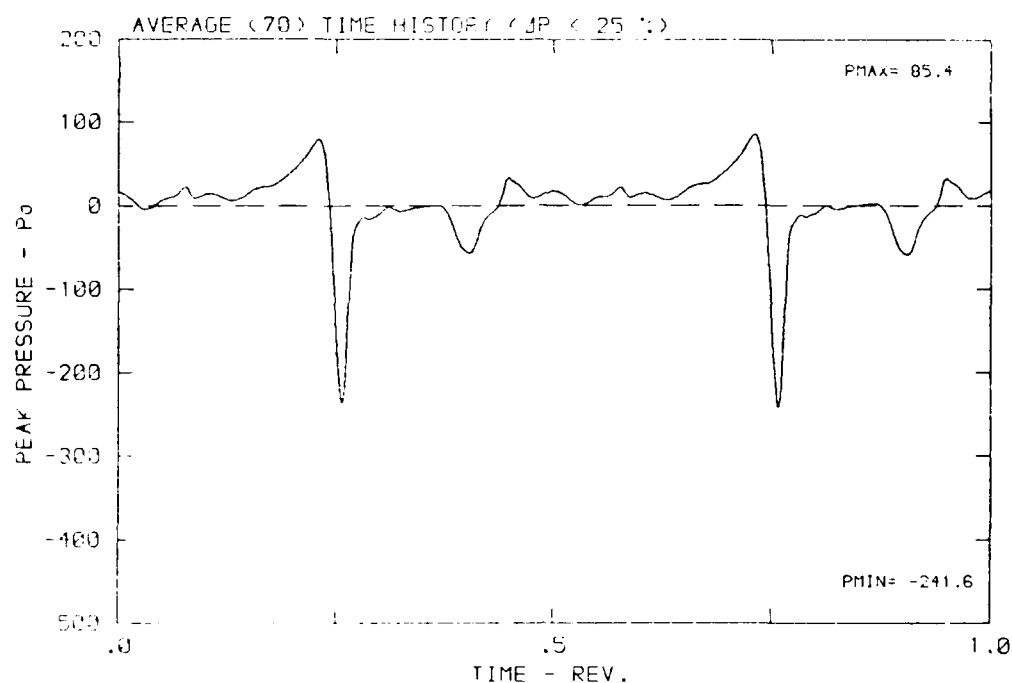
DATA POINT: AC-5 RUN: 81 MP: 5

β : 21.6° MH: .8740 n: 2700 rpm v/u : .267 p : .0' T : 263.0 K



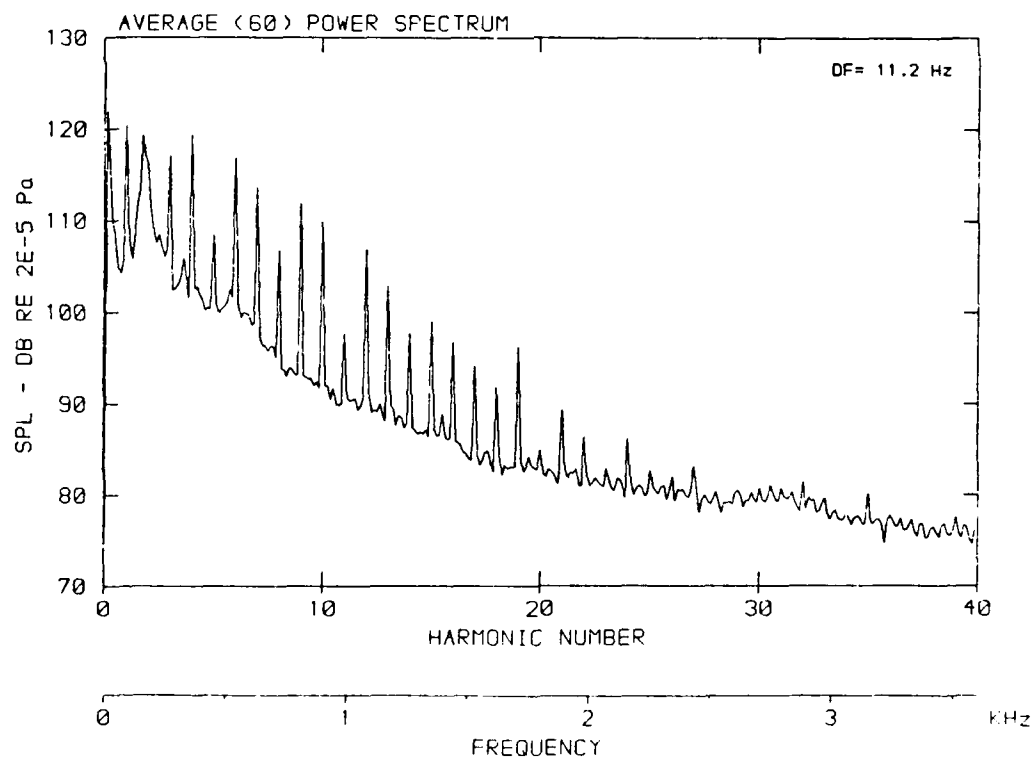
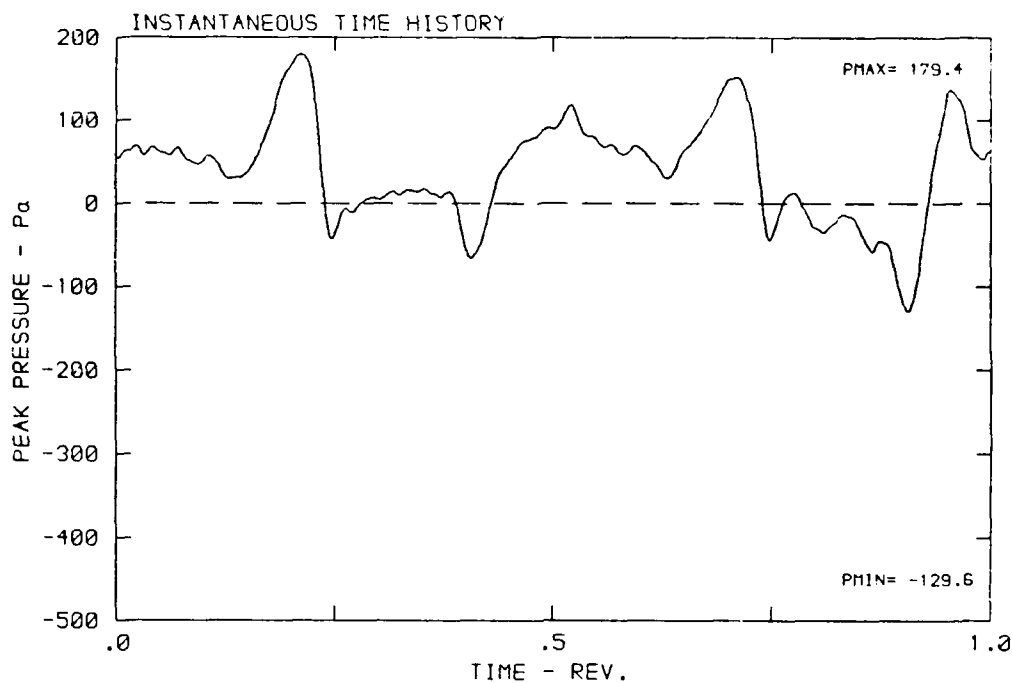
DATA POINT: AC-5 RUN: 81 MP: 5

β : 21.6° MH: .8740 n: 2700 rpm v u: .257 ϕ : .0° T: 283.0 K



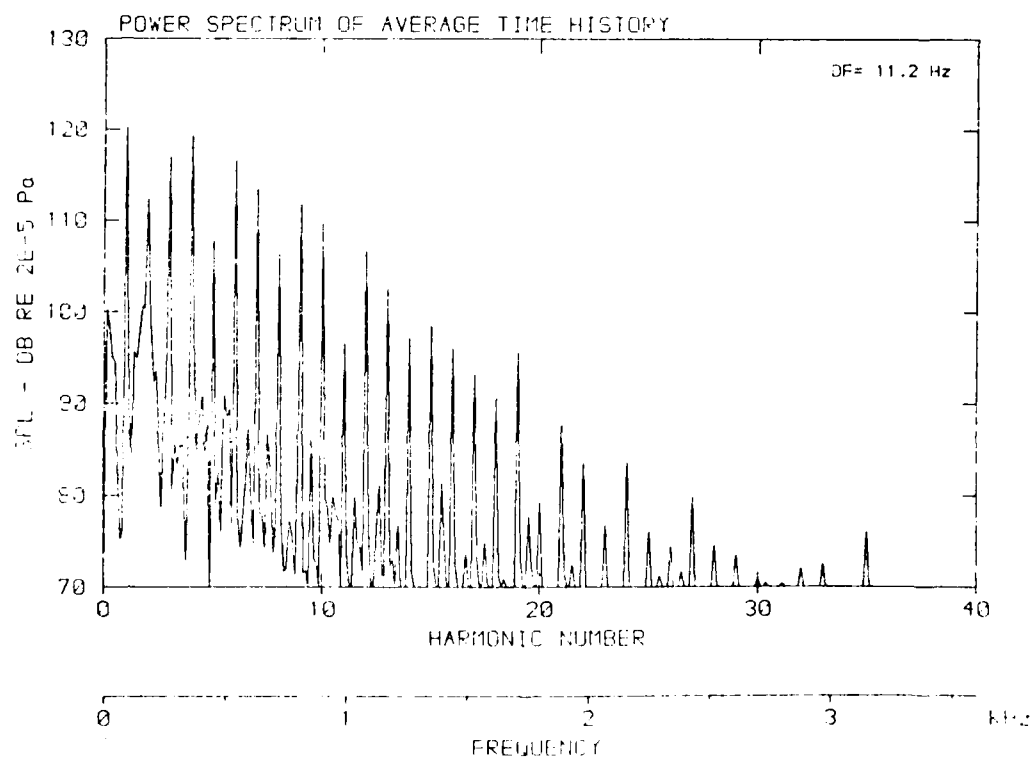
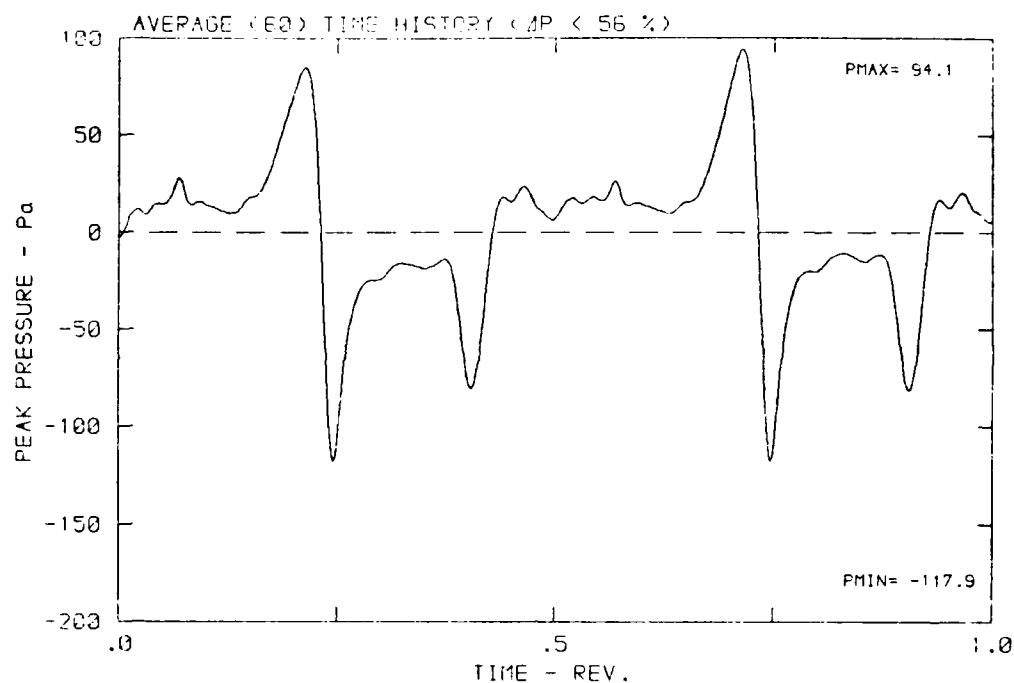
DATA POINT: AC-5 RUN: 81 MP: 6

β : 21.6° MH: .8740 n: 2700 rpm v/u : .267 ϕ : .0° T: 268.0 °C



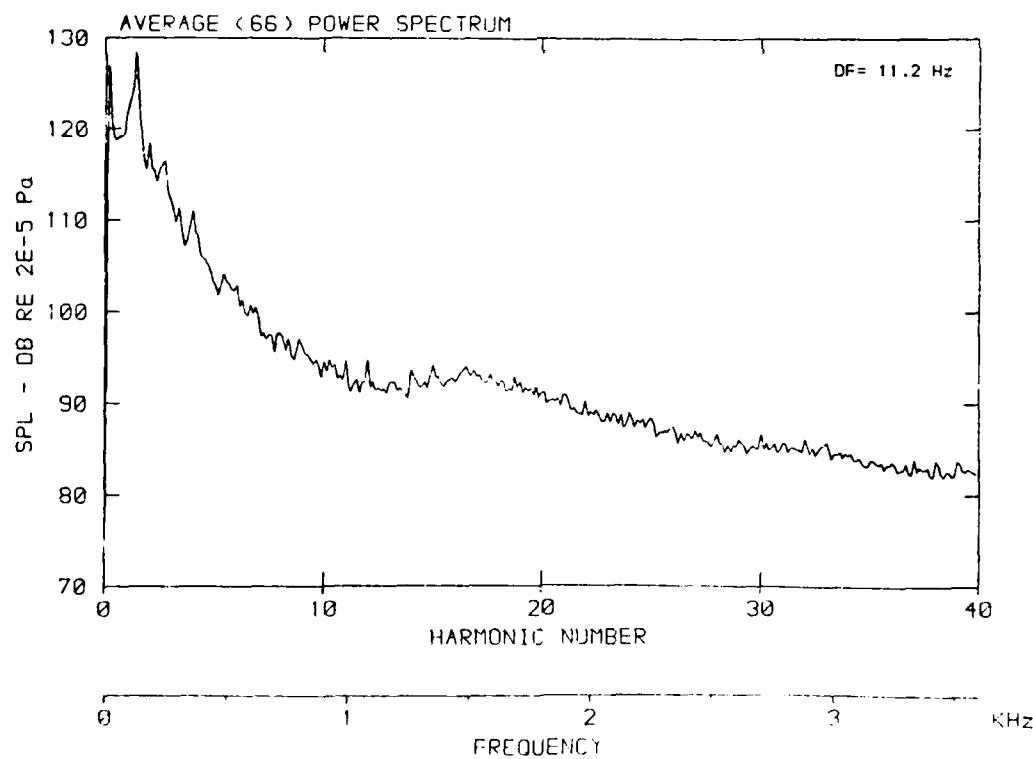
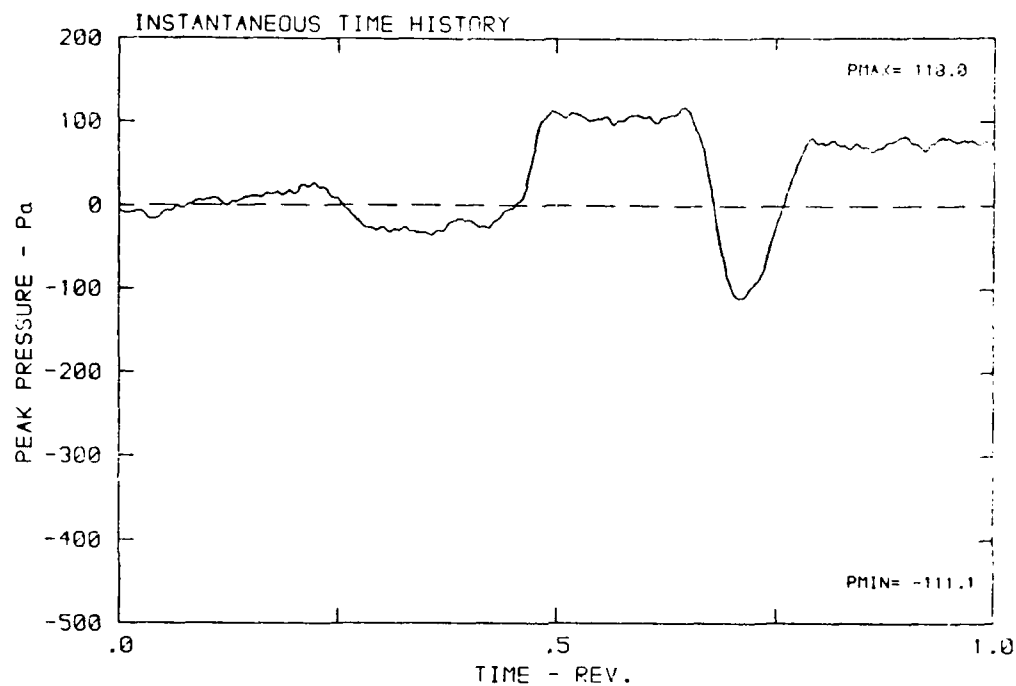
DATA POINT: AC-5 RUN: 81 MP: 6

β : 21.6° MH: .8740 n: 2700 rpm v/u: .267 ϕ : .0° T: 288.0 K



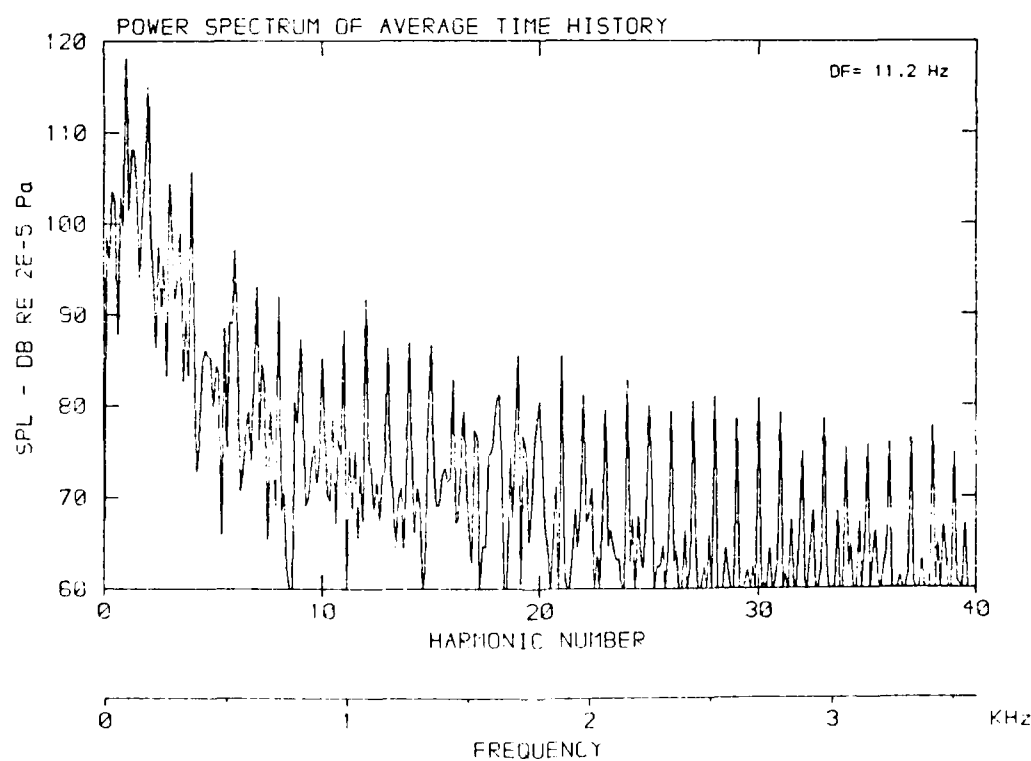
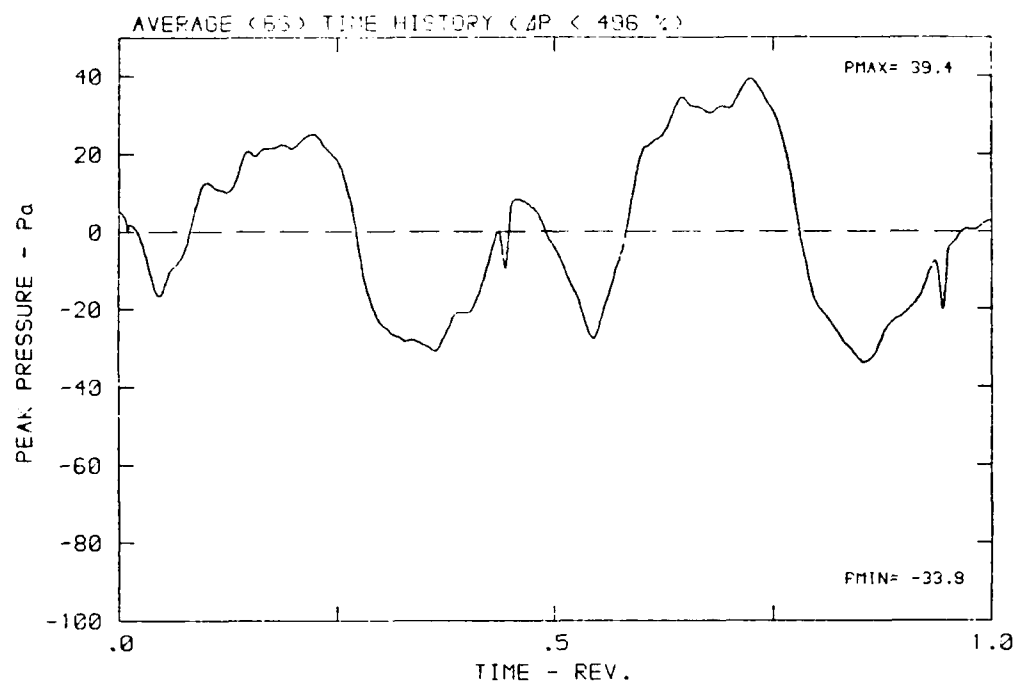
DATA POINT: AC-5 RUN: 81 MP: 7

β : 21.6° MH: .8740 n: 2700 rpm v_{tu} : .257 ϕ : .0° T: 298.9 K



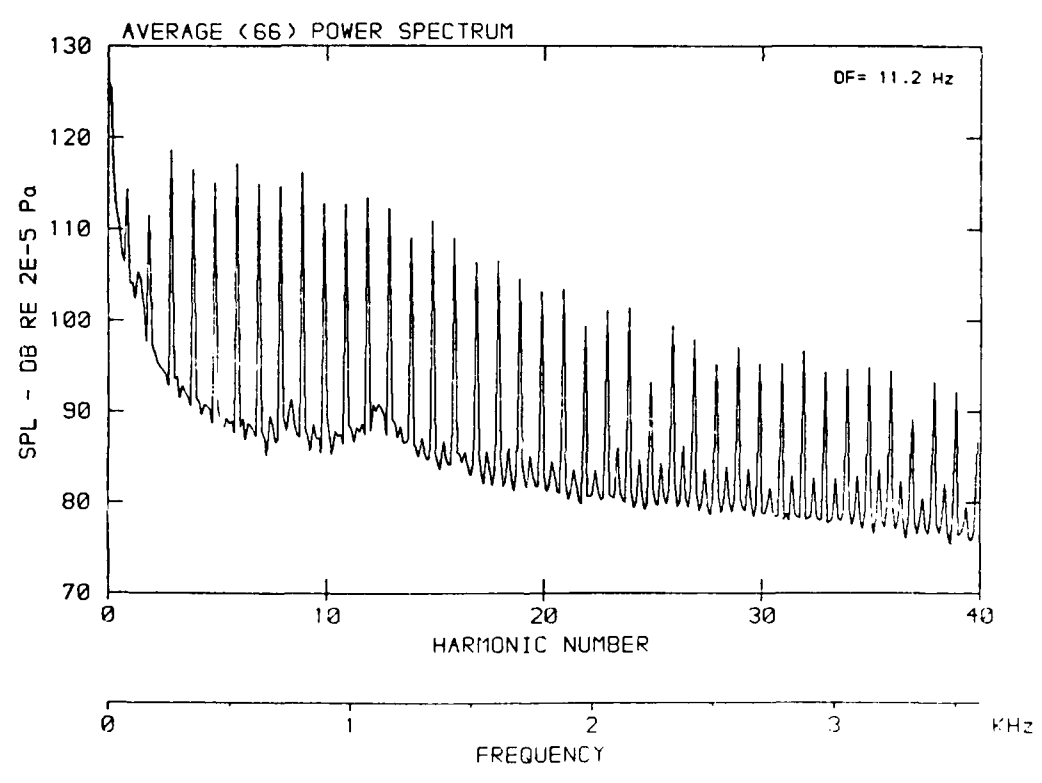
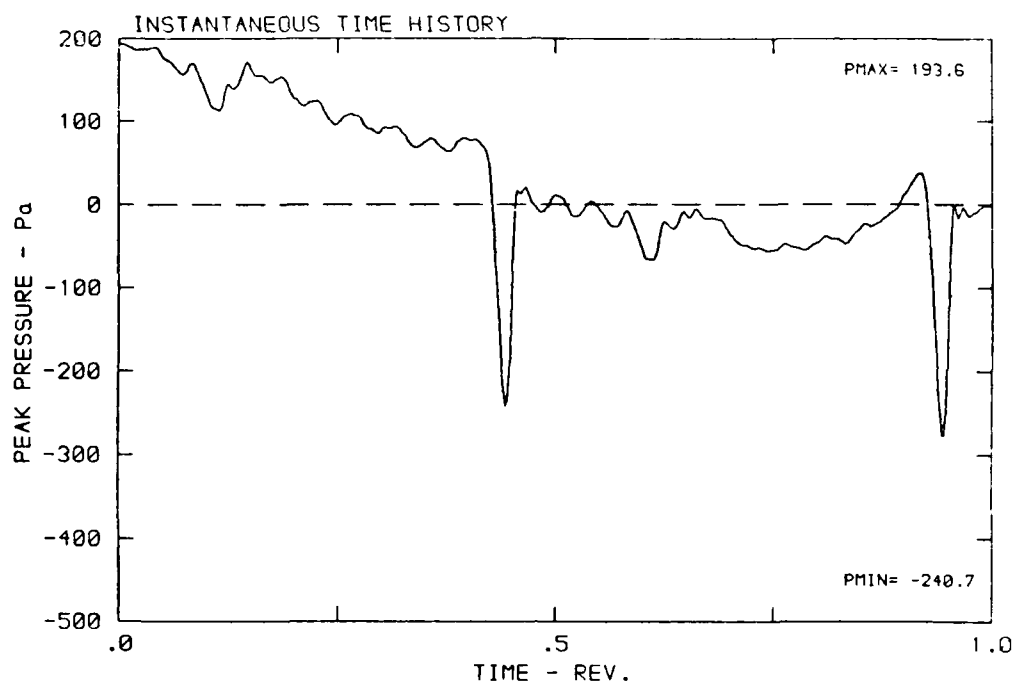
DATA POINT: AC-5 RUN: 81 MP: 7

β : 21.6° MH: .8740 n: 2700 rpm v_{ru} : .267 ϕ : .0° T: 283.0 K



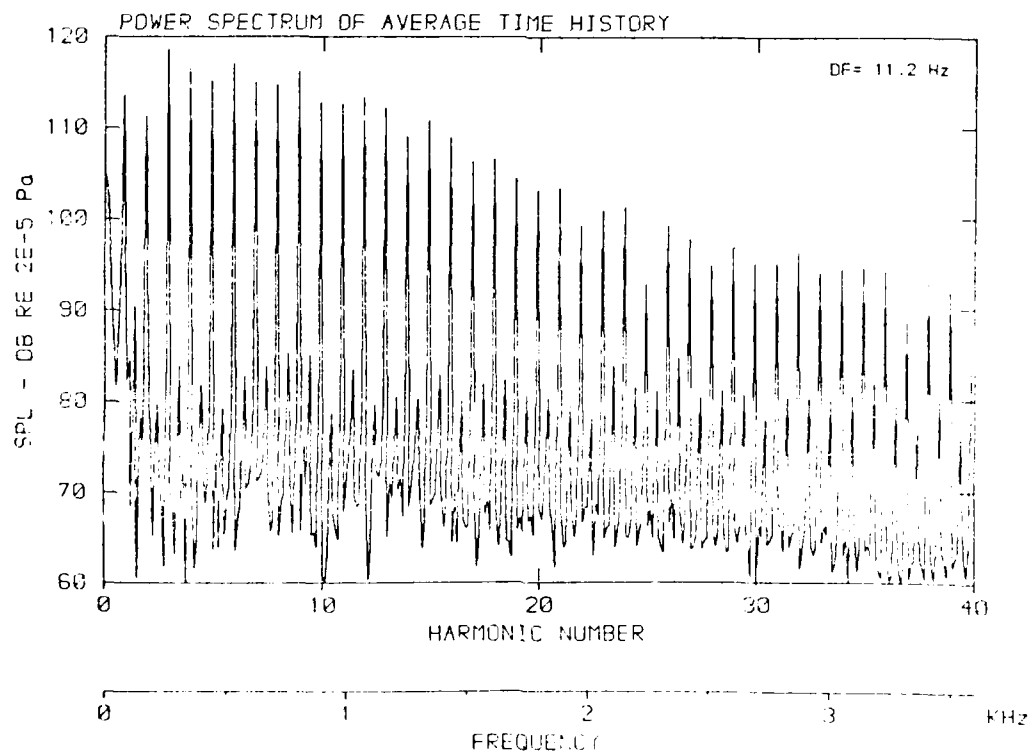
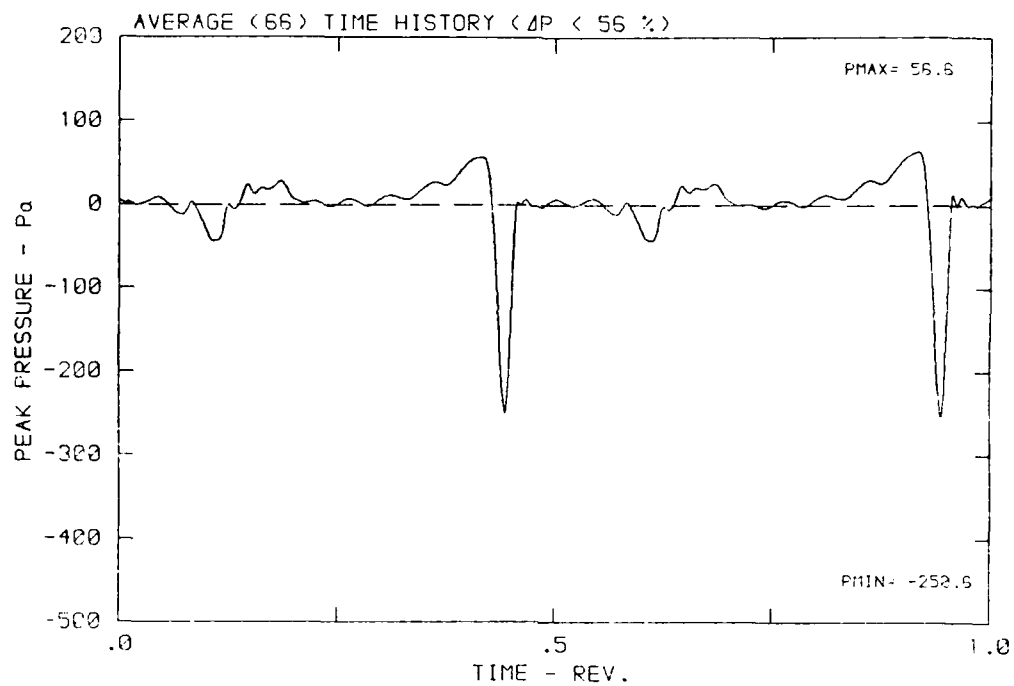
DATA POINT: AC-5 RUN: 81 NP: 9

β : 21.6° MH: .8740 n: 2700 rpm v/u: .267 ϕ : .0° T: 289.0 K



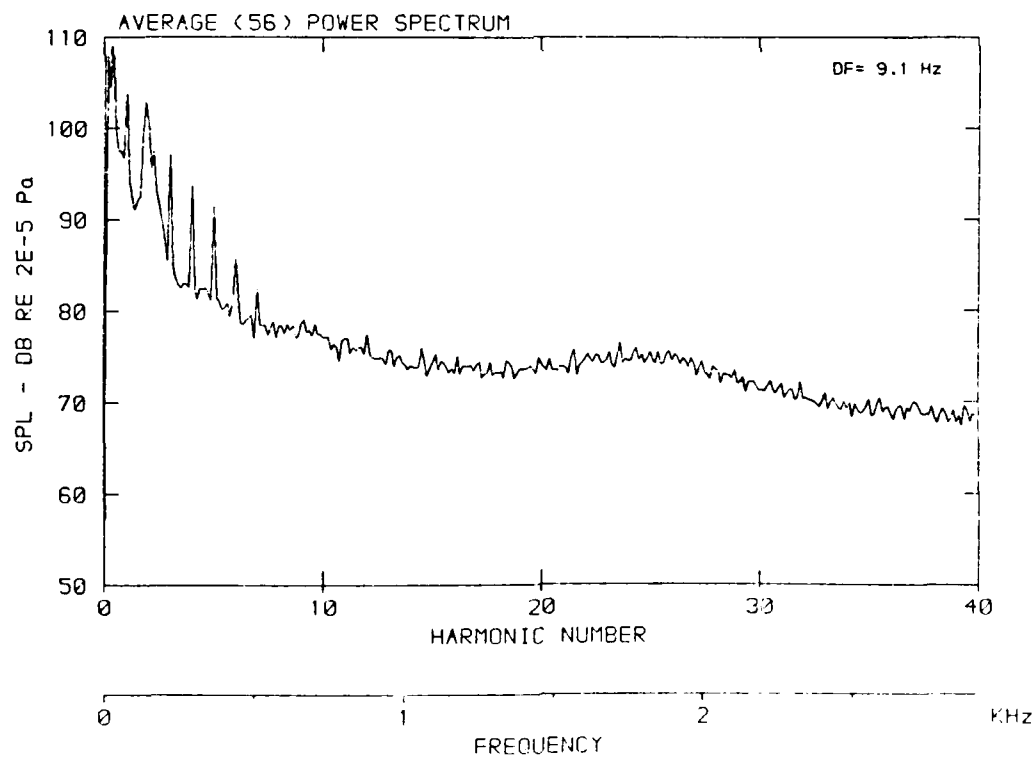
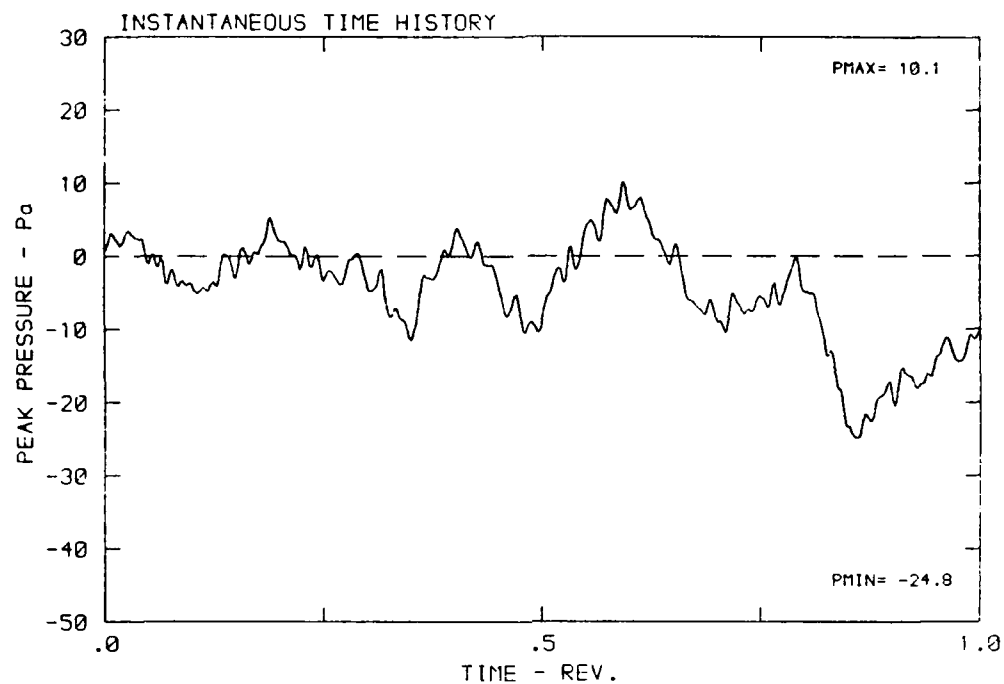
DATA POINT: AC-5 RUN: 81 MP: 9

β : 21.6° MH: .8740 n: 2700 rpm v/u: .267 ϕ : .0° T: 288.0 K



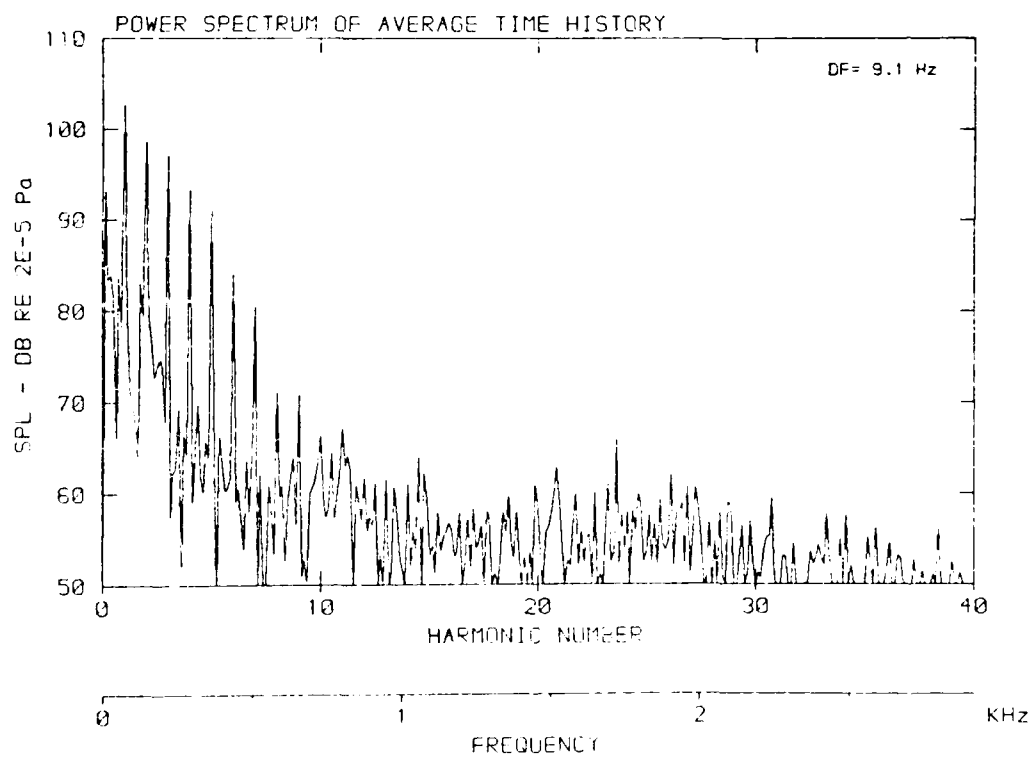
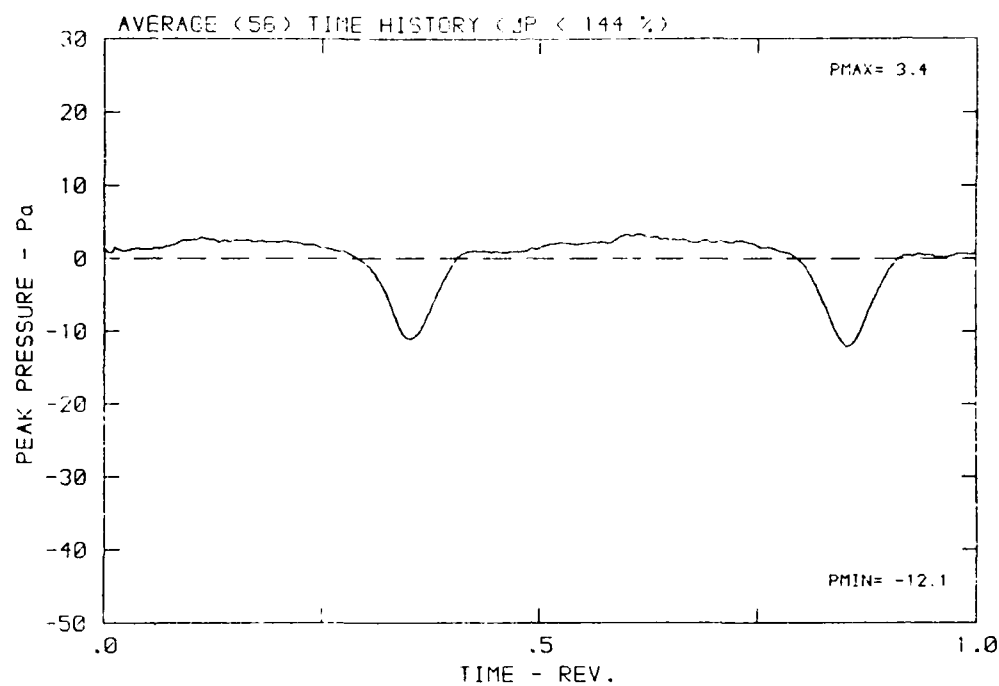
DATA POINT: AC-7 RUN: 82 MP: 1

β : 21.6° MH: .7209 n: 2183 rpm v/u: .331 ϕ : .0° T: 288.1 K



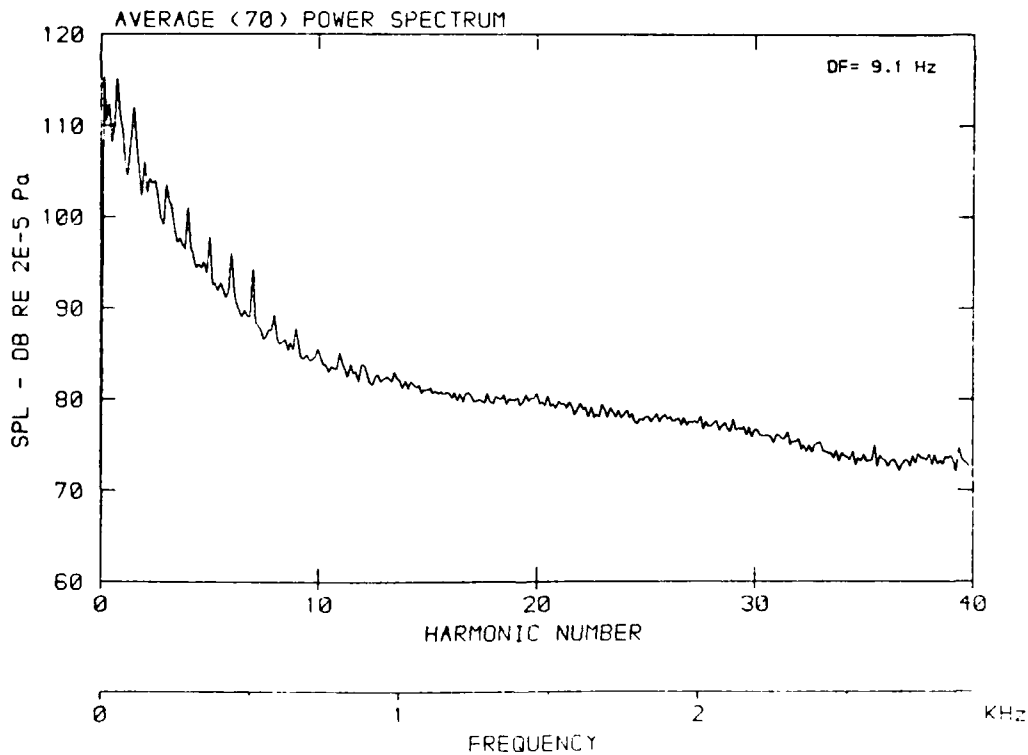
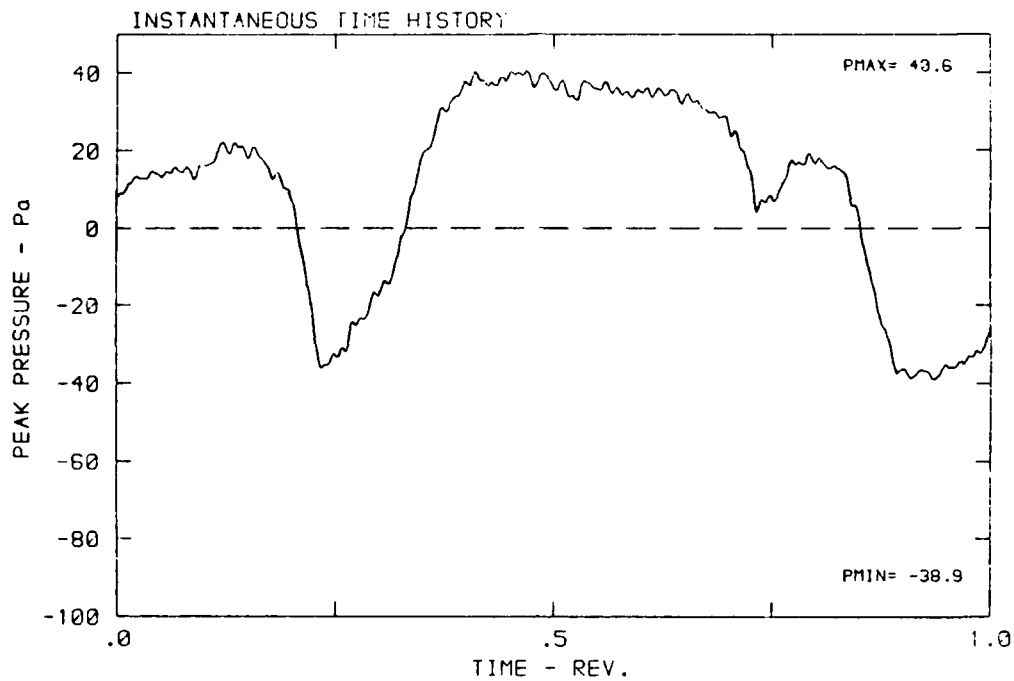
DATA POINT : AC-7 RUN : 82 MP : 1

β : 21.6° MH : .7209 n : 2189 rpm v/u : .331 ϕ : .0° T : 288.1 K



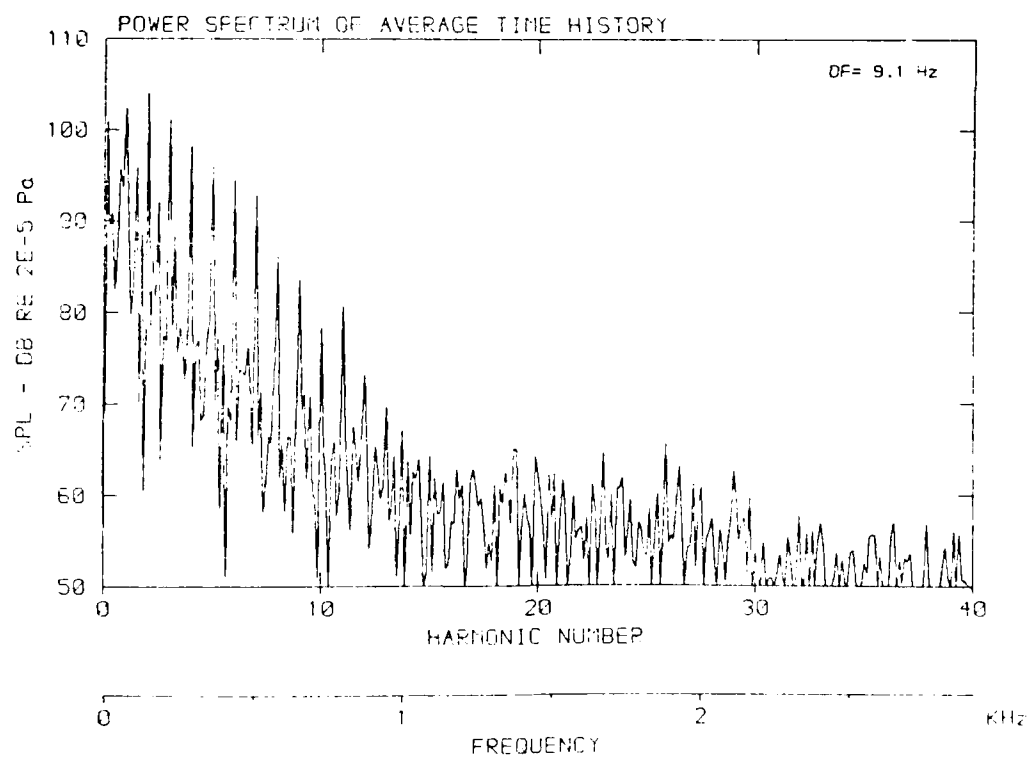
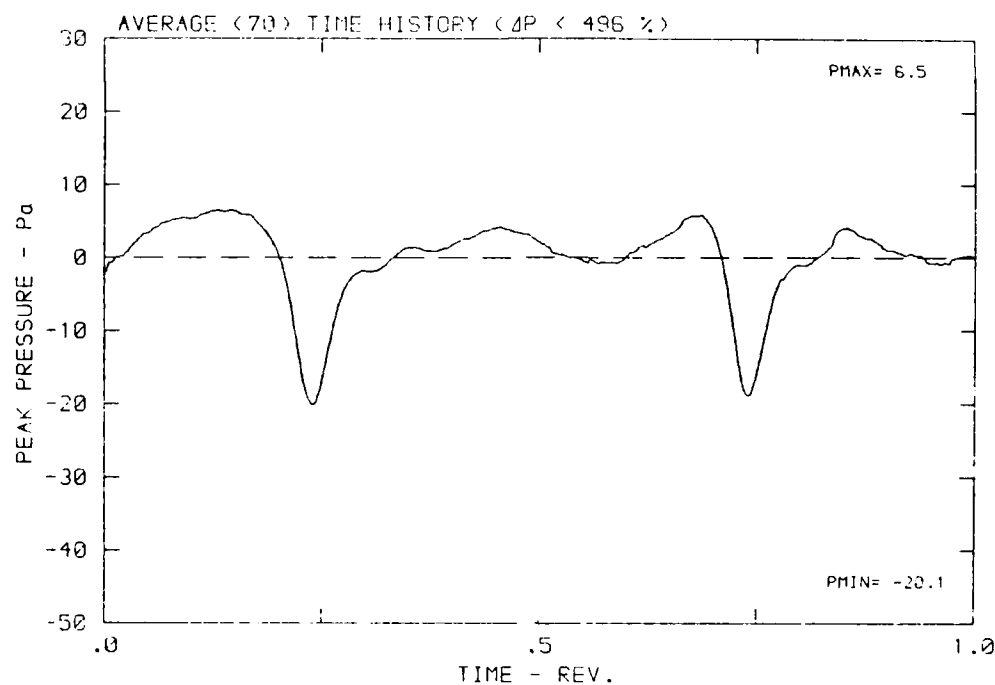
DATA POINT: AC-7 RUN: 82 MP: 2

β : 21.6° MH: .7209 n: 2189 rpm v/u : .331 ϕ : .0° T: 298.1 K



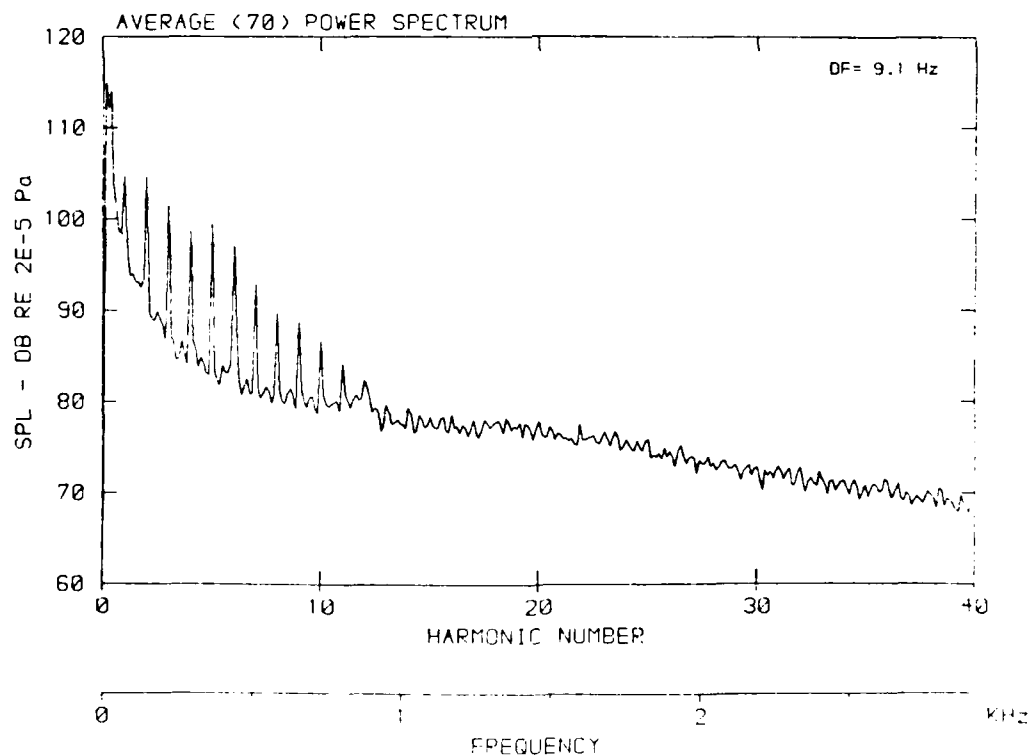
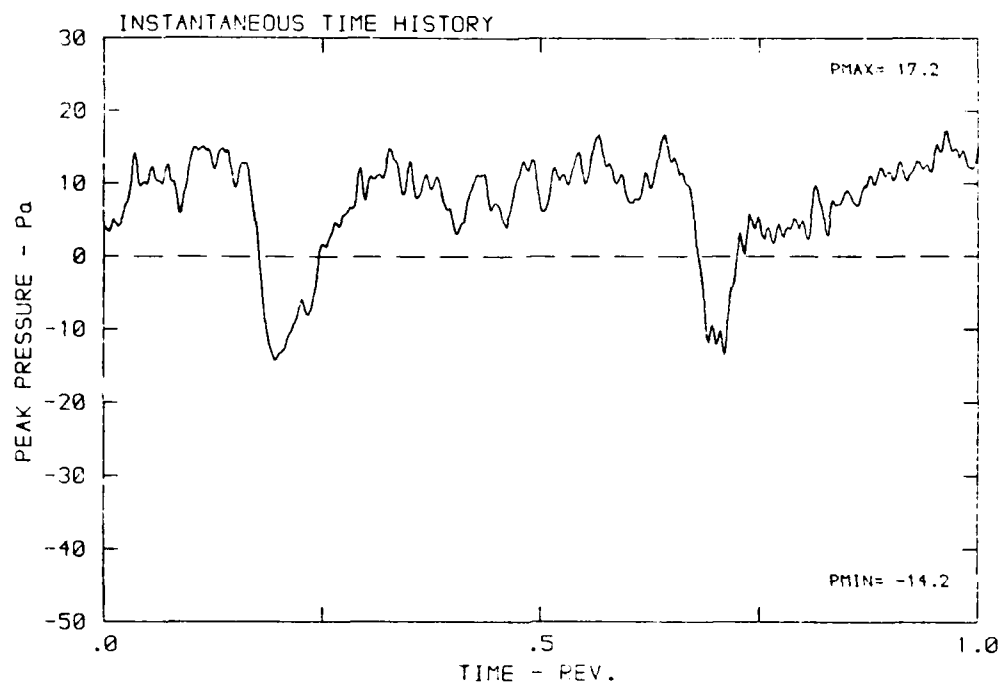
DATA POINT: AC-7 RUN: 82 MP: 2

β : 21.6° MH: .7209 n: 2189 rpm v/u : .331 ϕ : .0° T: 268.1 K



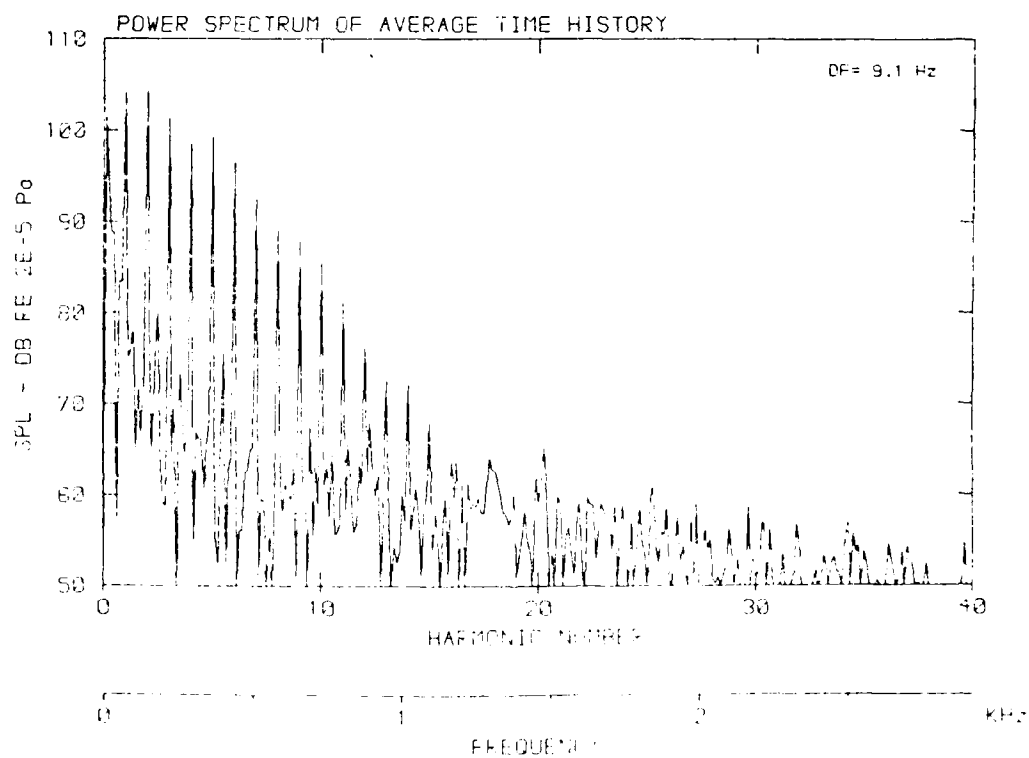
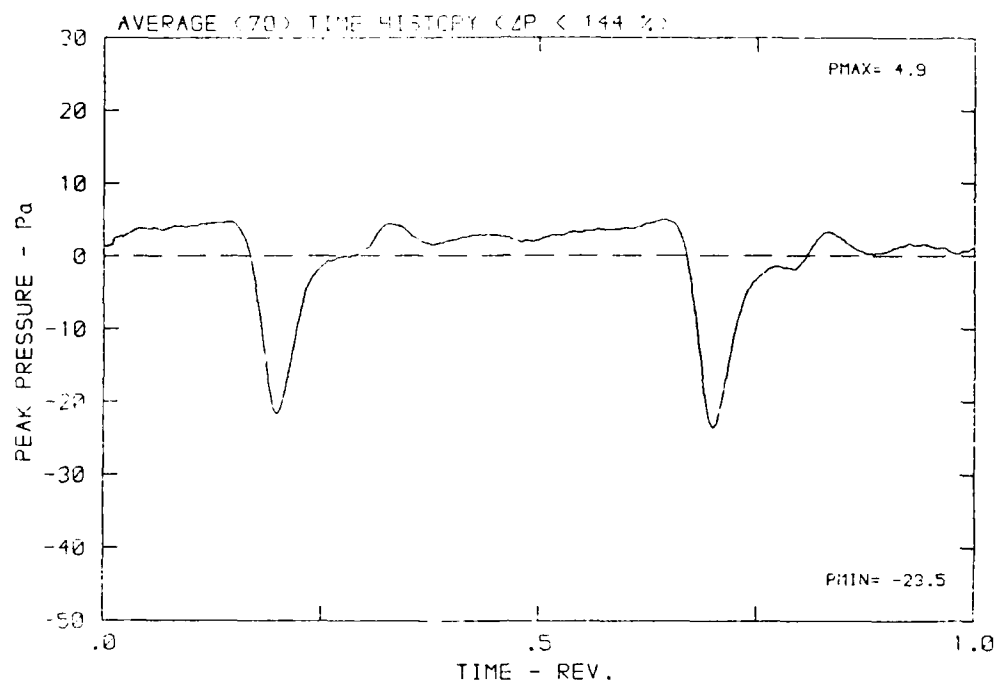
DATA POINT: AC-7 RUN: 82 MP: 3

β : 21.6° MH: .7209 n: 2189 rpm v/u: .331 ϕ : .0° T: 289.1 K



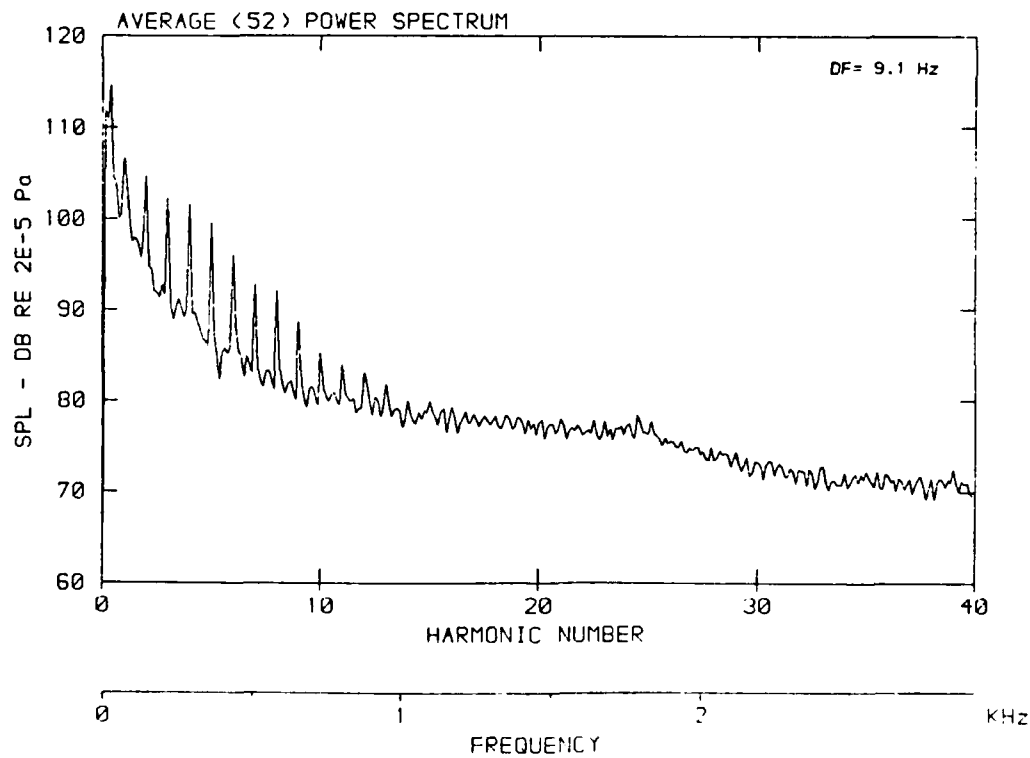
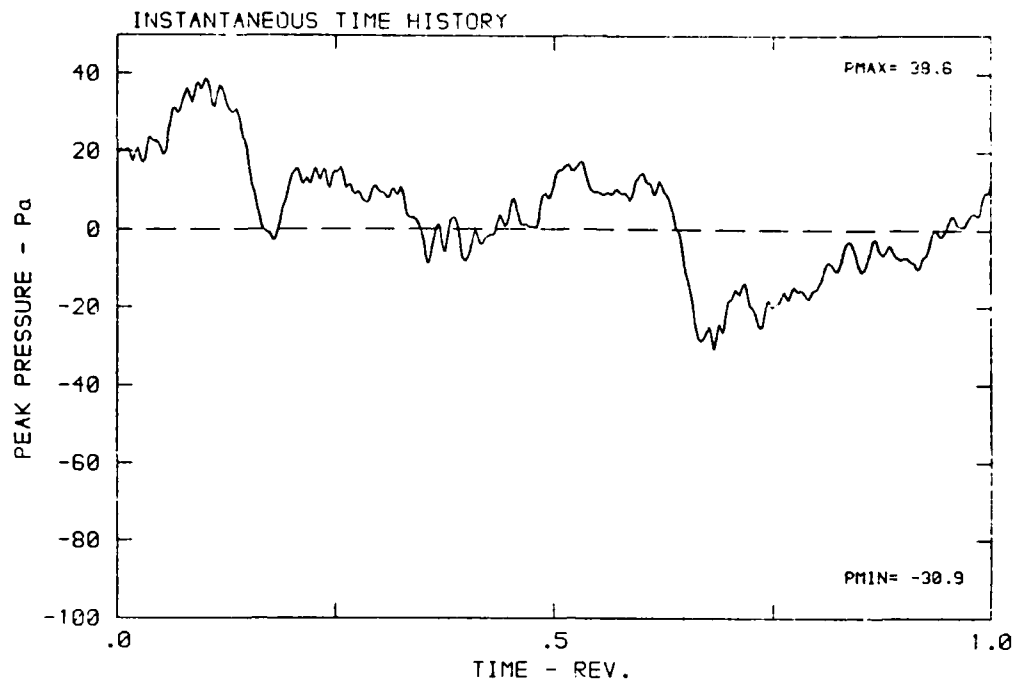
DATA POINT: AC-7 RUN: 82 MP: 3

β : 21.6° MH: .7209 n: 2189 rpm v/u : .331 ϕ : .0° T: 258.1 K



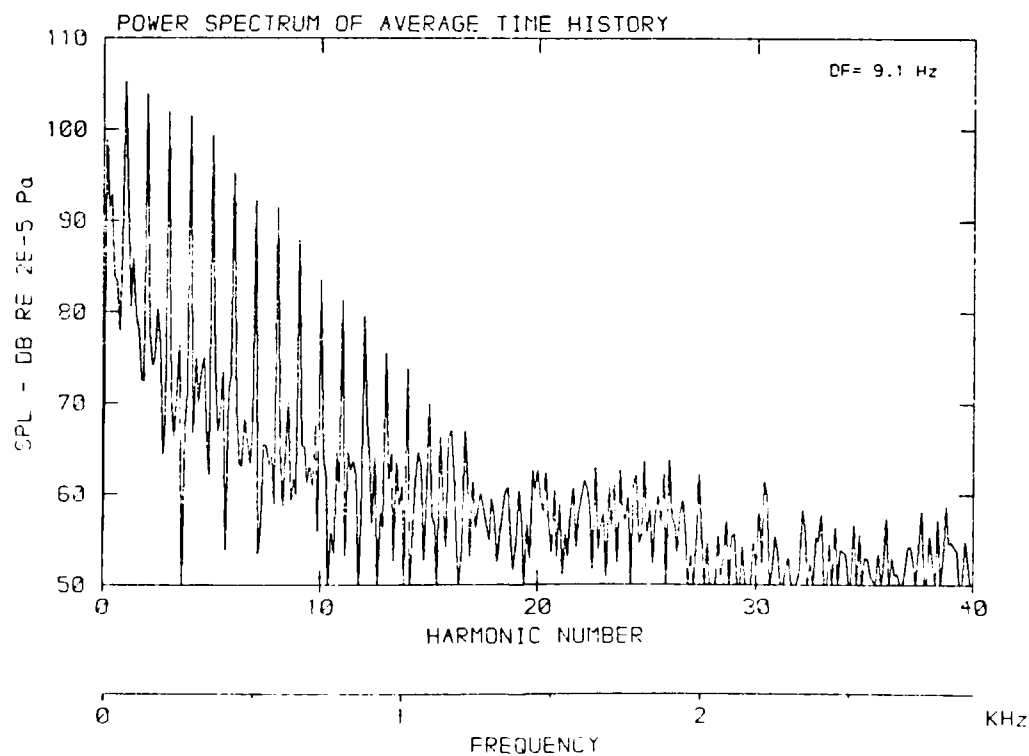
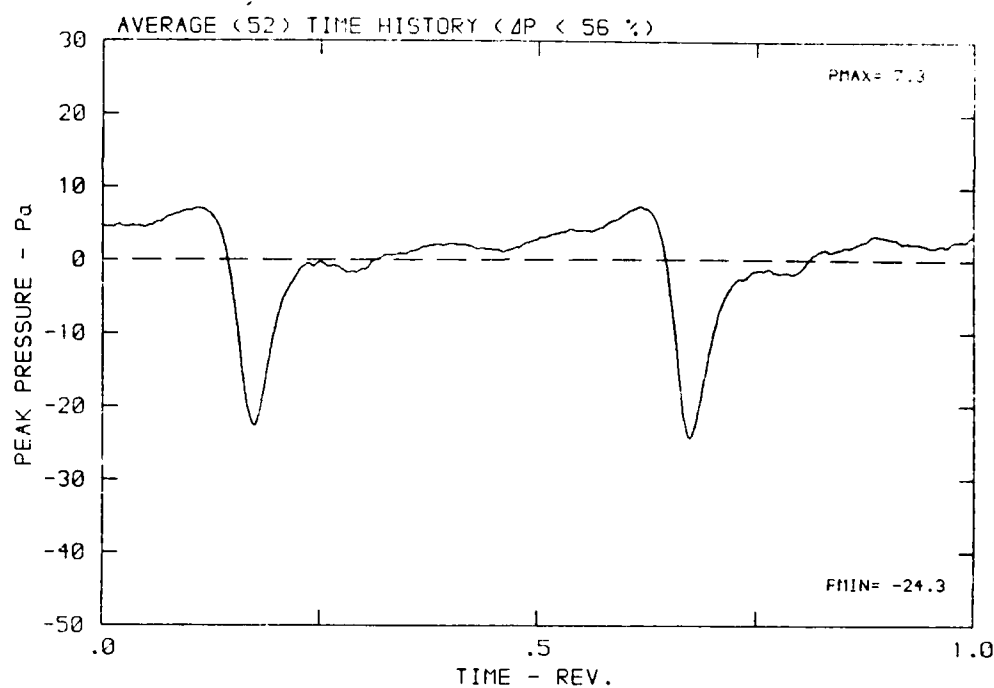
DATA POINT: AC-7 RUN: 82 MP: 4

β : 21.6° MH: .7209 n: 2189 rpm vru: .331 ϕ : .0° T: 133.1°



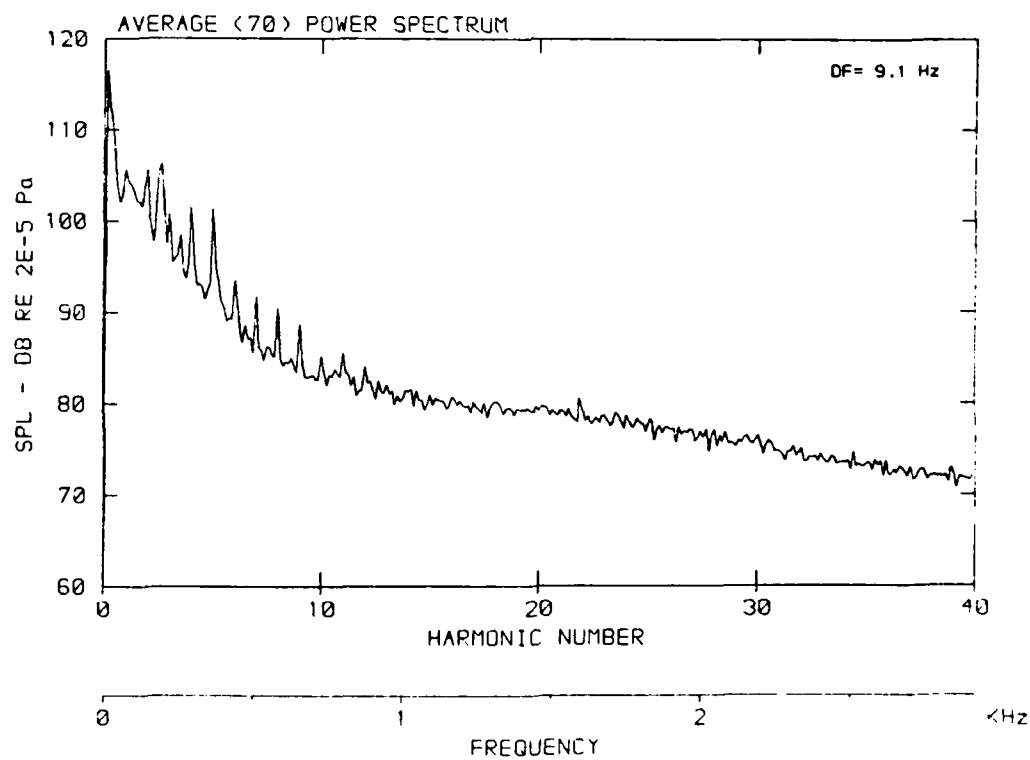
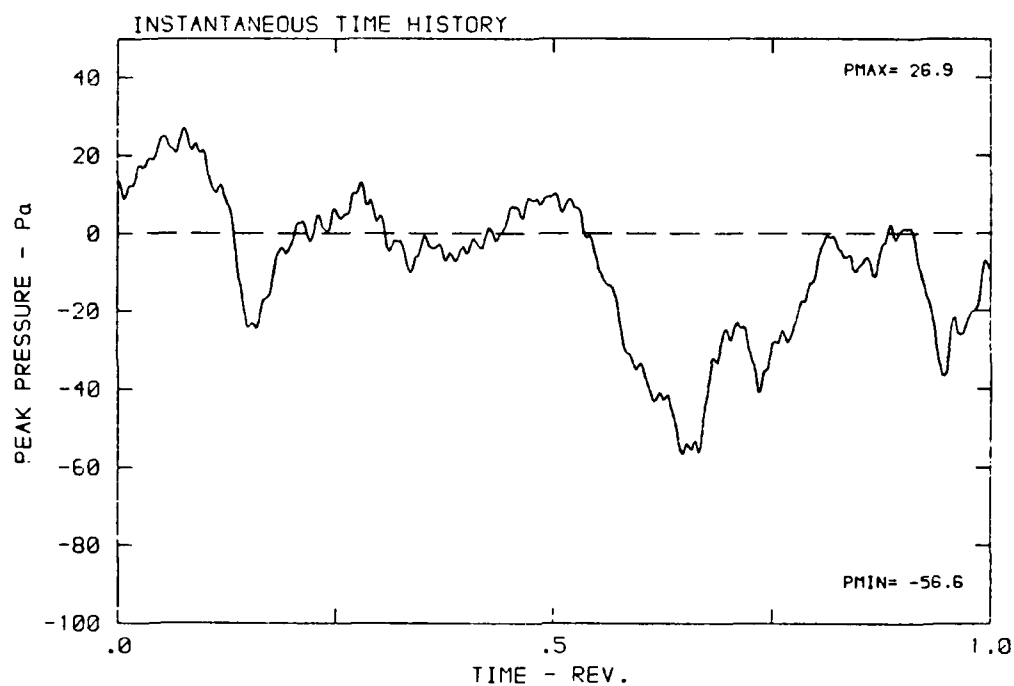
DATA POINT: AC-7 RUN: 82 MP: 4

β : 21.6° MH: .7209 n: 2189 rpm v/u: .331 ϕ : .0° T: 253.1 K



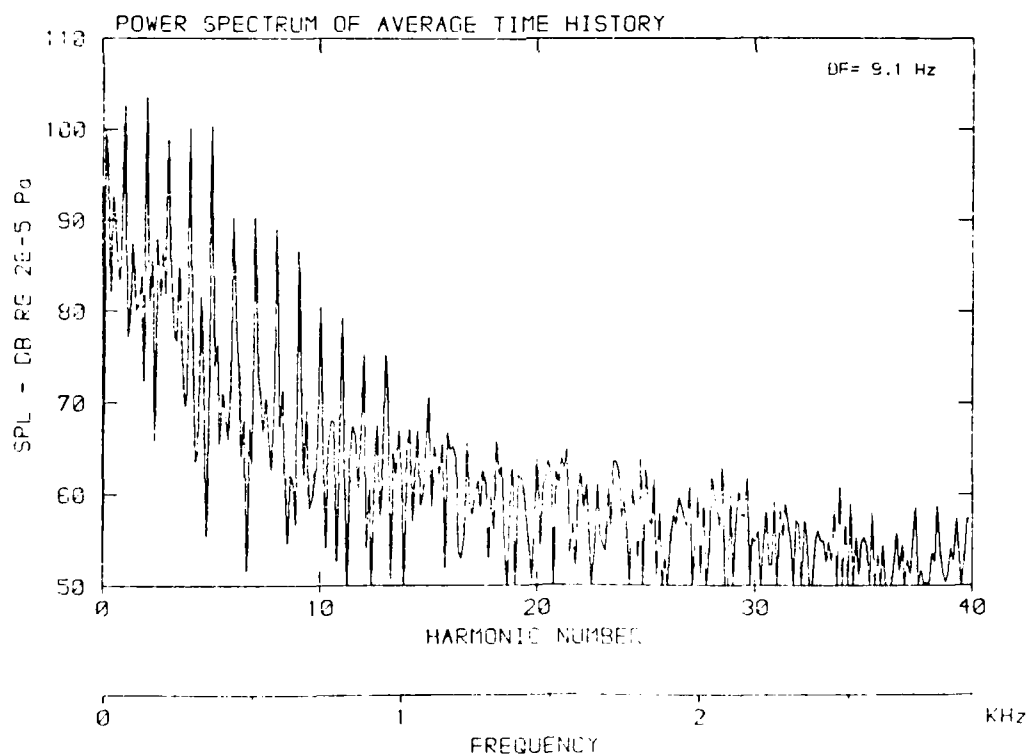
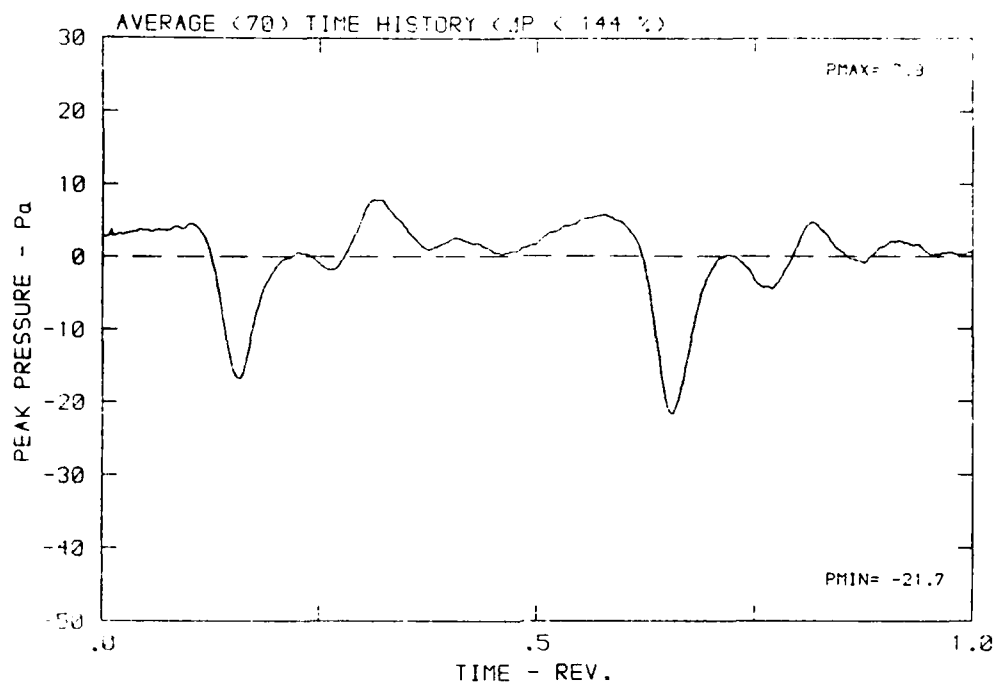
DATA POINT: AC-7 RUN: 82 MP: 5

β : 21.6° MH: .7209 n: 2189 rpm v/u: .331 ϕ : .0° T: 299.1 K



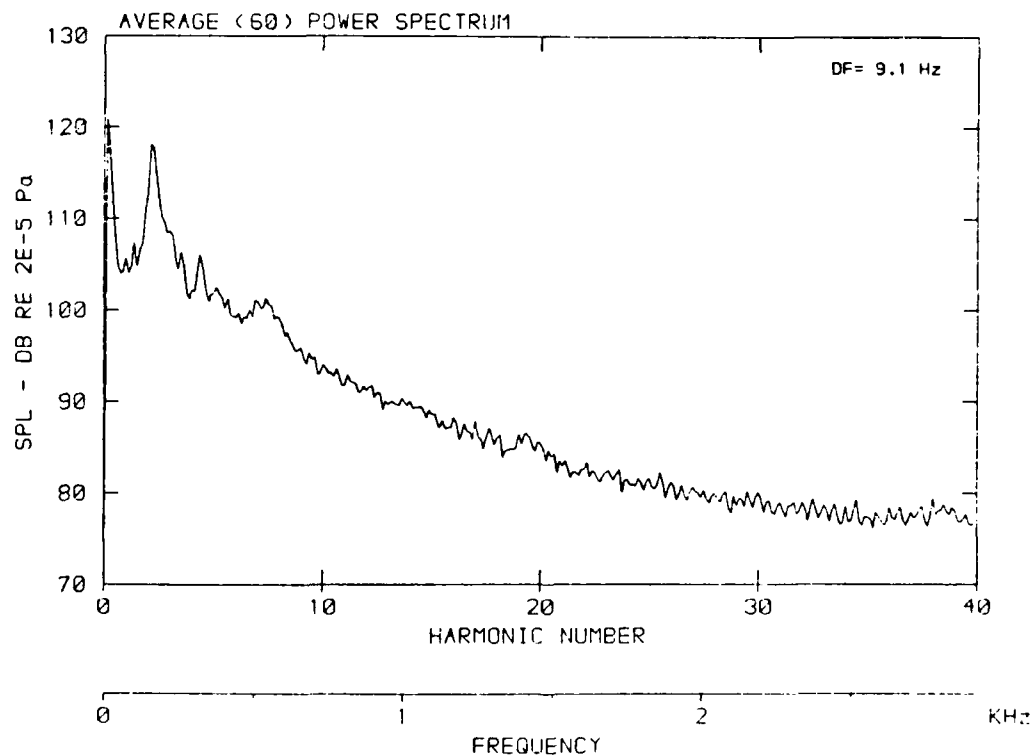
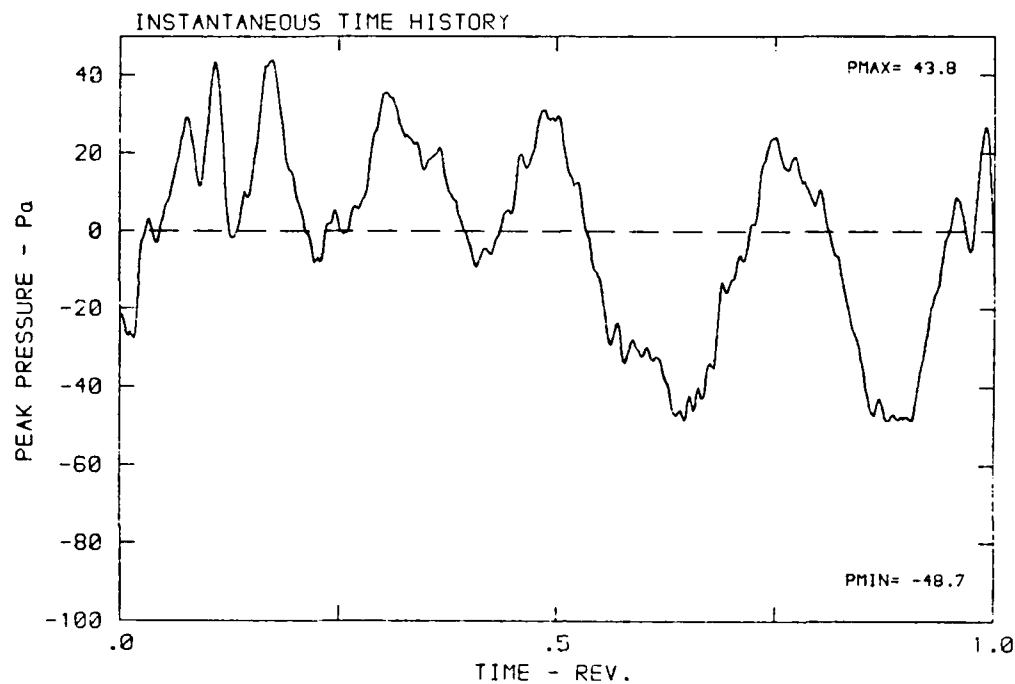
DATA POINT: AC-7 RUN: 82 MP: 5

β : 21.6° MH: .7209 n: 2189 rpm v/u : .331 ϕ : .0° T: 288.1 K



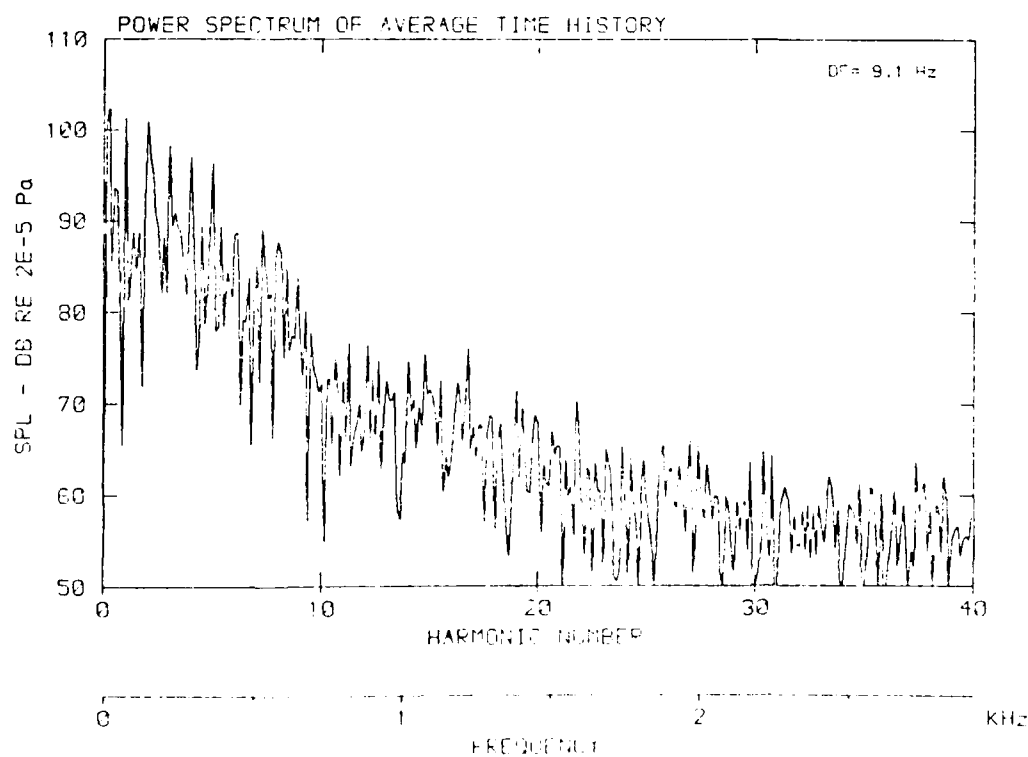
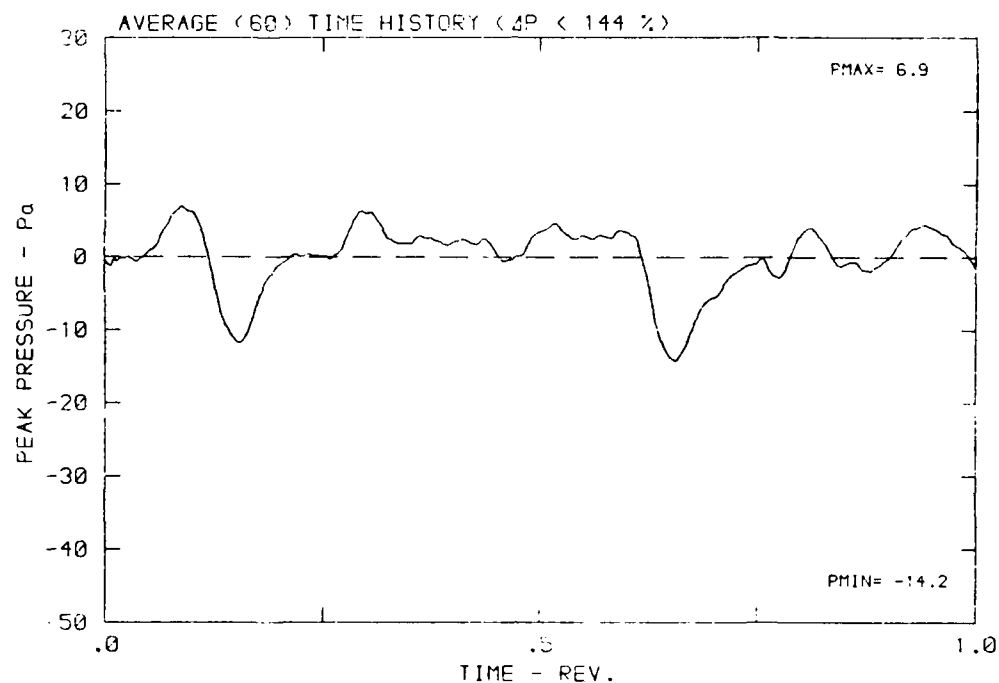
DATA POINT: AC-7 RUN: 82 MP: 6

β : 21.6° MH: .7209 n: 2189 rpm v/u: .331 ϕ : .0° T: 288.1 K



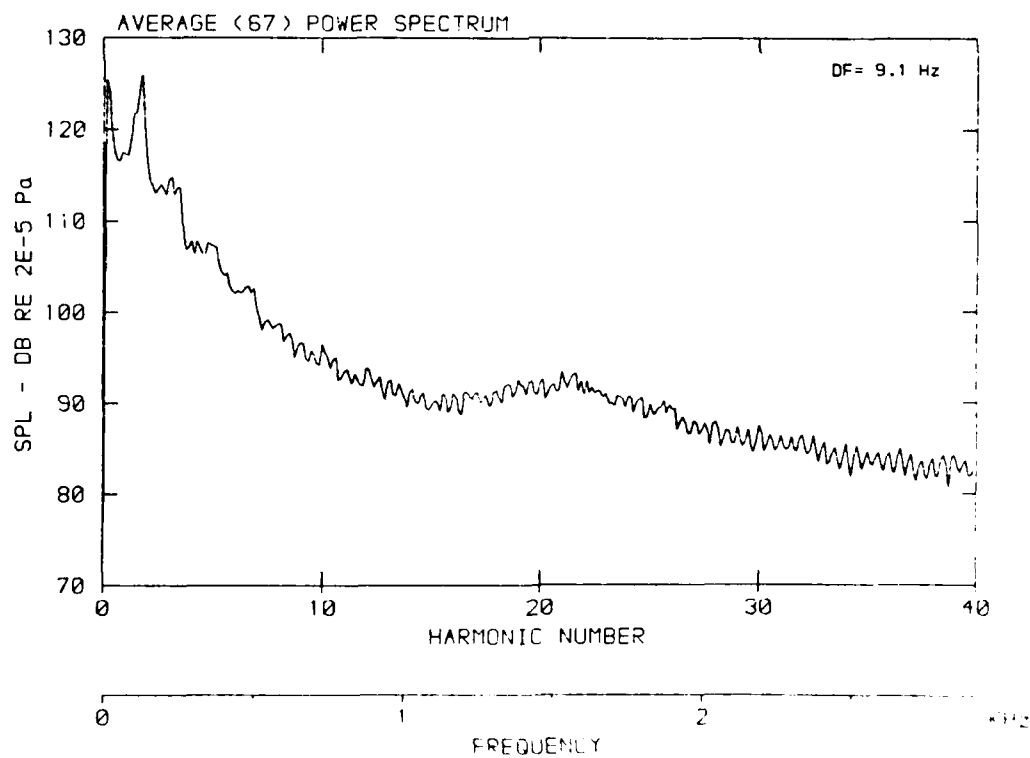
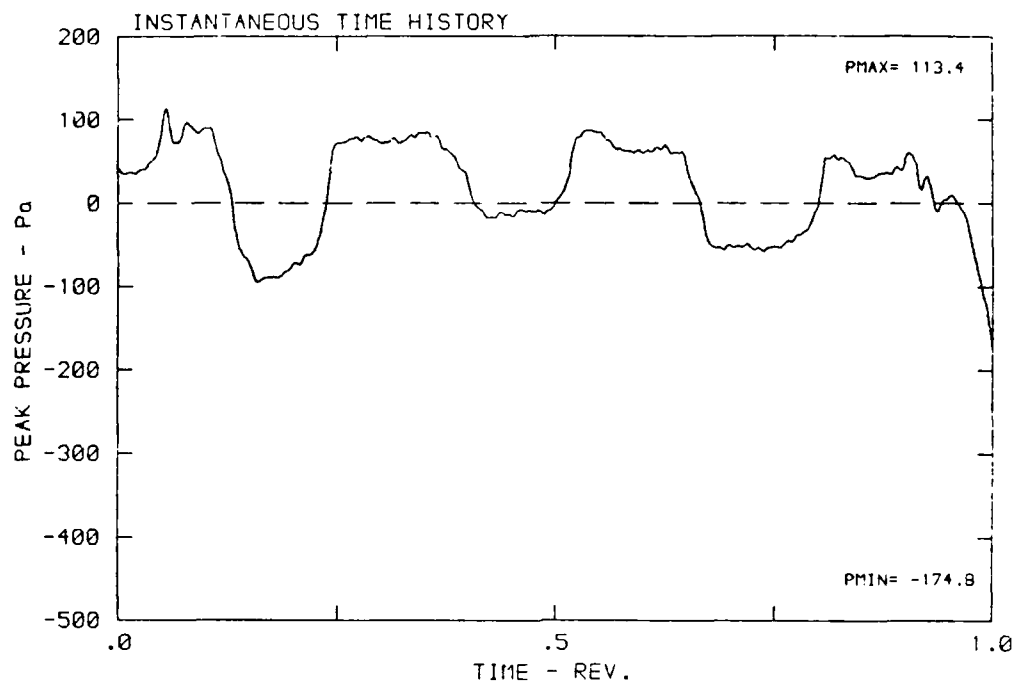
DATA POINT: AC-7 RUN: 82 MP: 6

β : 21.6° MH: .7209 n: 2189 rpm v/u: .331 ϕ : .0° T: 288.1 K



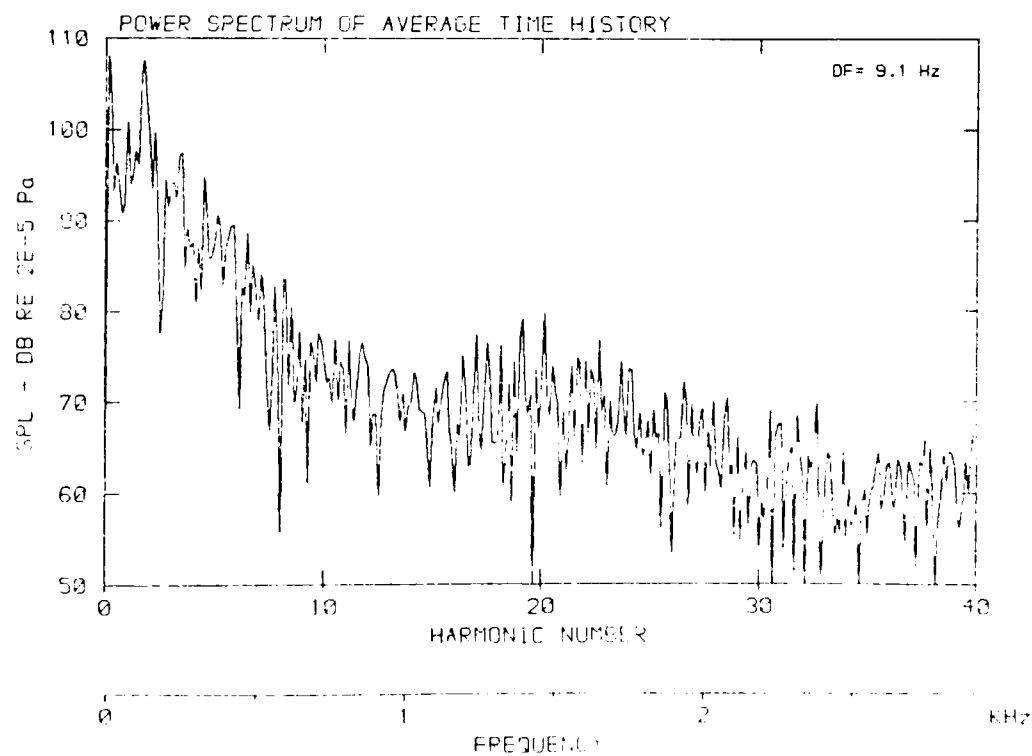
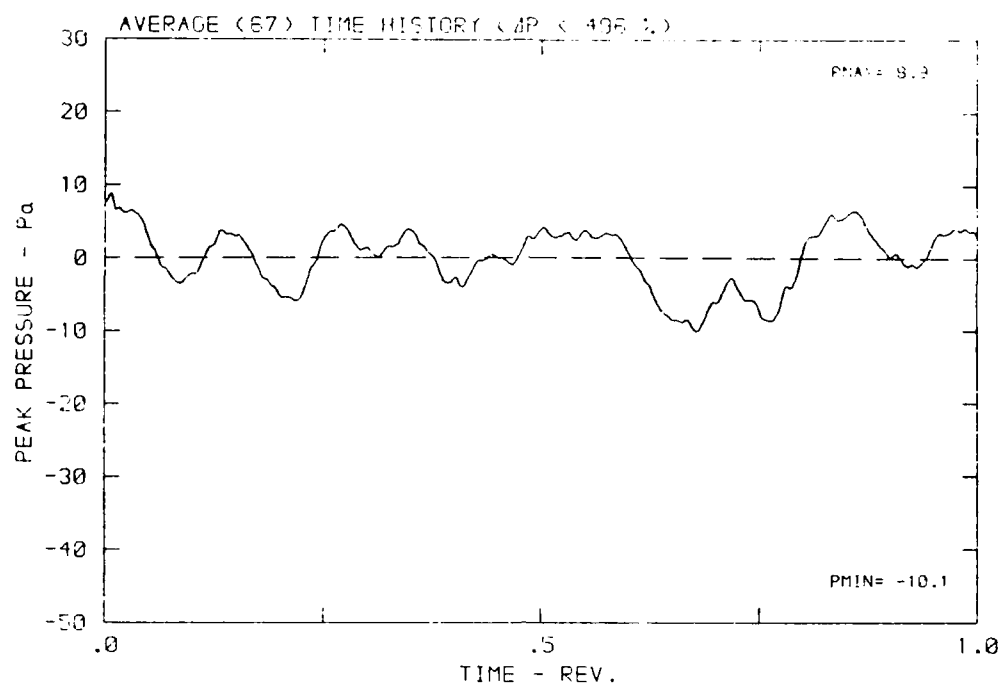
DATA POINT: AC-7 RUN: 82 MP: 7

β : 21.6° MH: .7209 n: 2189 rpm v/u : .331 ϕ : .0° T: 268.1 K



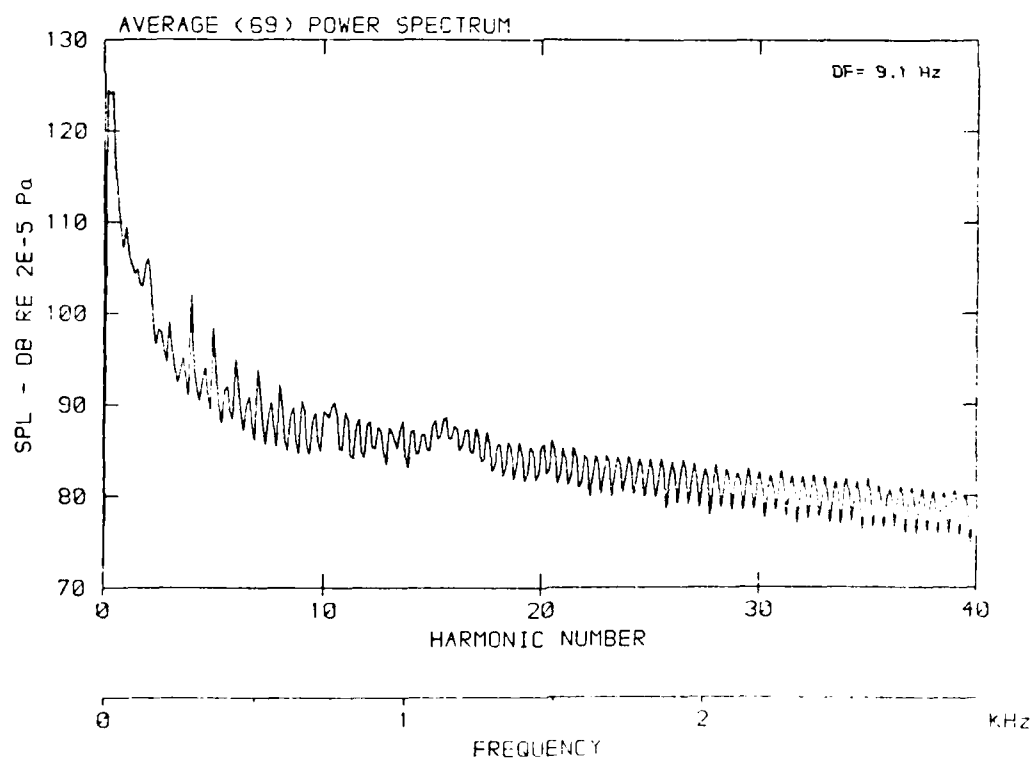
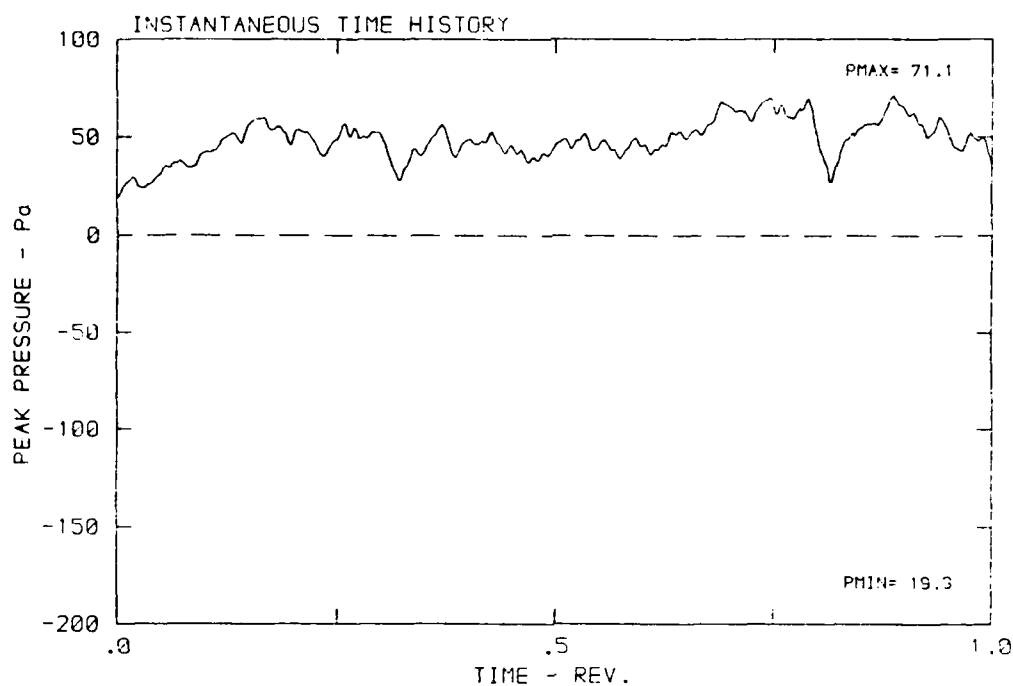
DATA POINT: AC-7 RUN: 82 MP: 7

β : 21.6° MH: .7209 n: 2189 rpm v/u: .331 ϕ : .0° T: 288.1 K



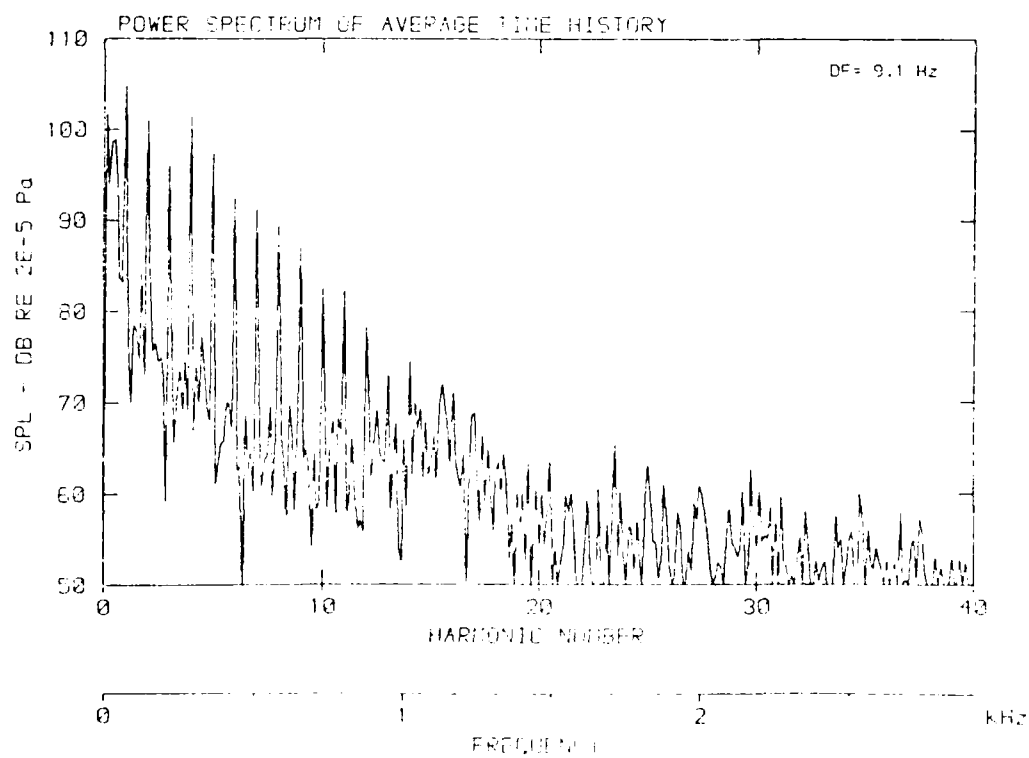
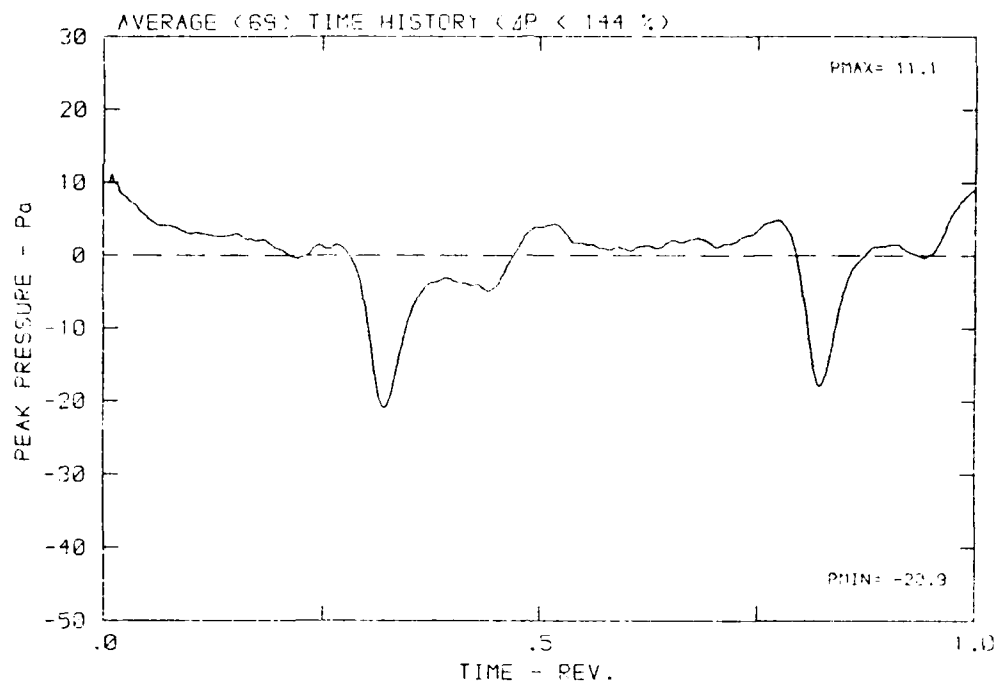
DATA POINT: AC-7 RUN: 82 MP: 9

β : 21.6° MH: .7209 n: 2189 rpm v/u : .331 ϕ : .0° T: 285.1 K



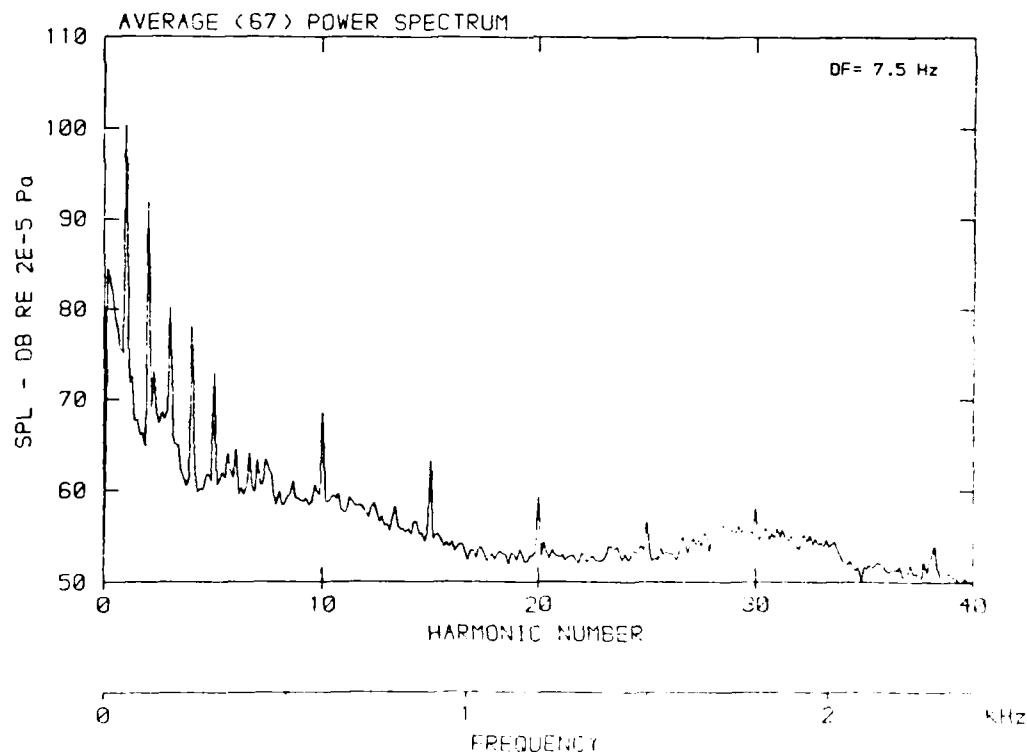
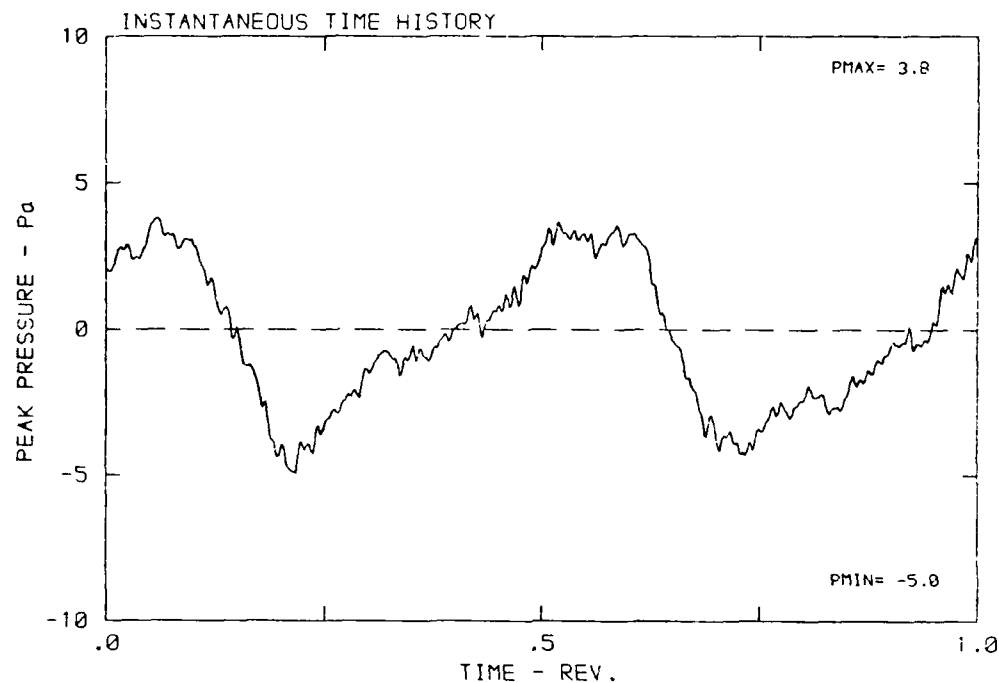
DATA POINT: AC-7 RUN: 82 MP: 9

β : 21.6° MH: .7289 n: 2189 rpm vru: .331 ϕ : .0° T: 288.1 K



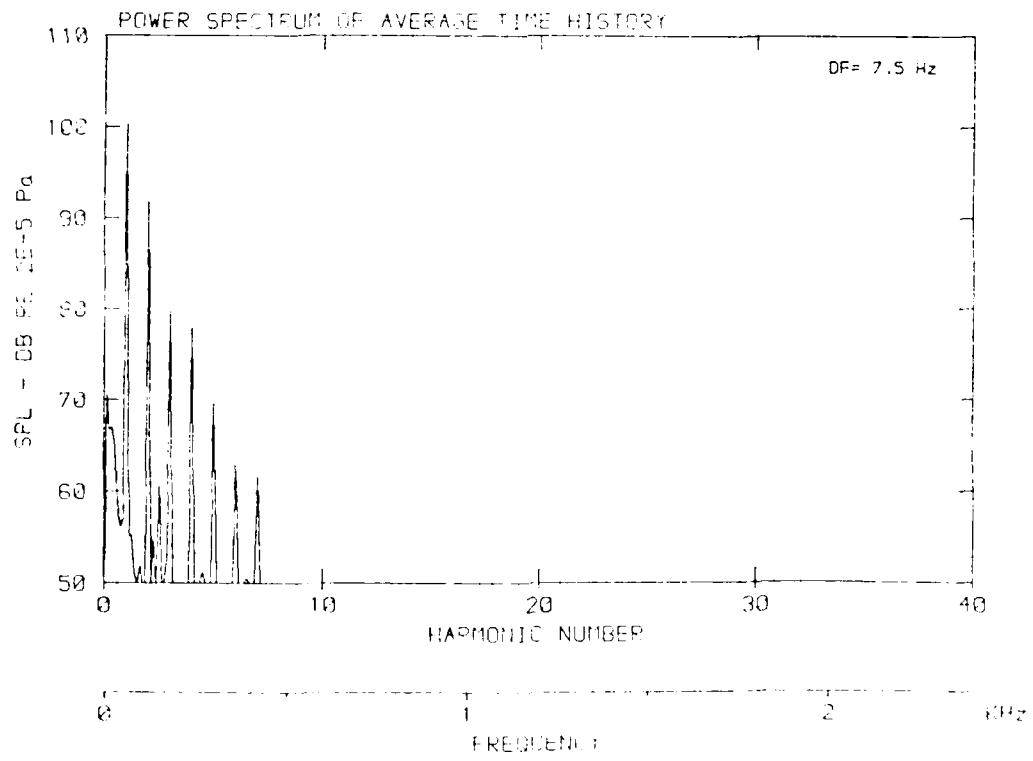
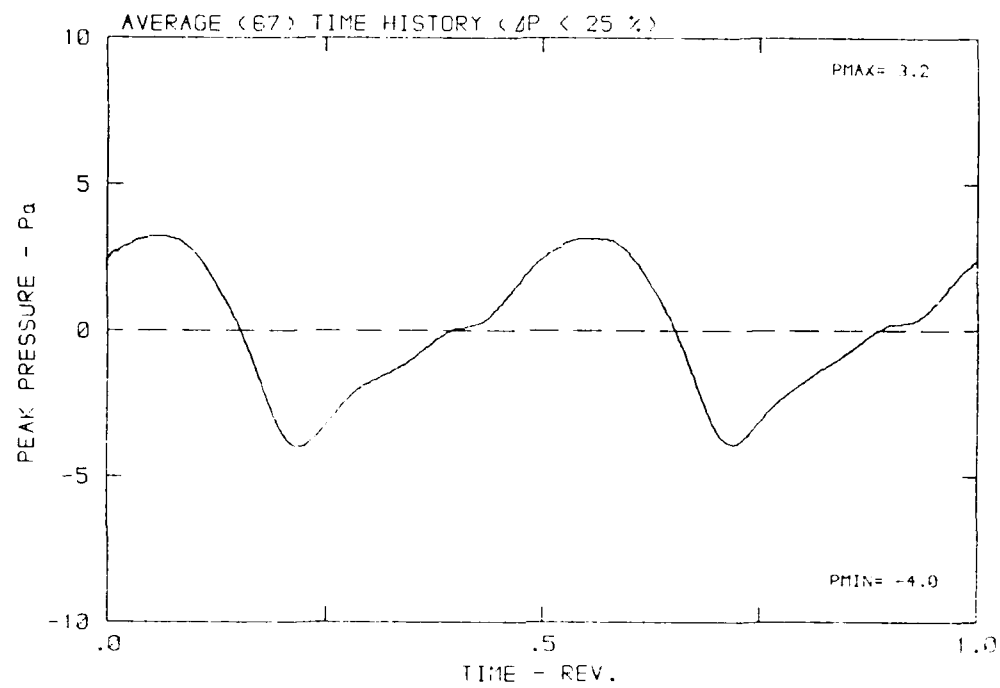
DATA POINT: BC-1 RUN: 77 MP: 1

β : 20.7° MH: .5732 n: 1800 rpm v/u: .179 ϕ : .0° T: 256.6 K



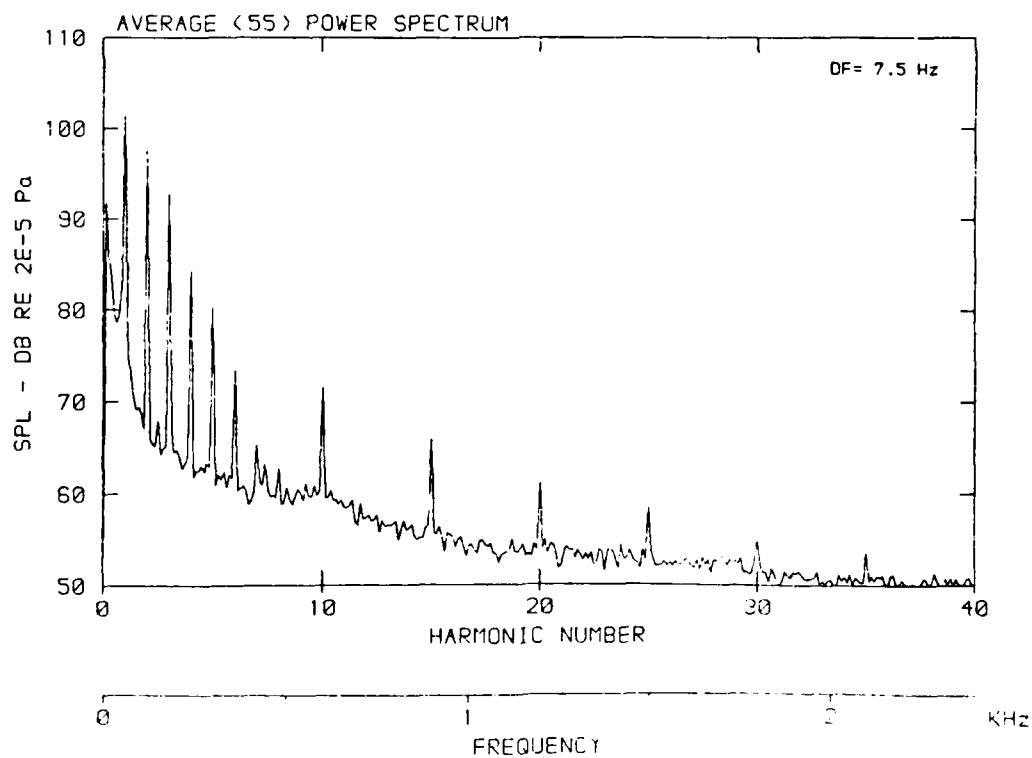
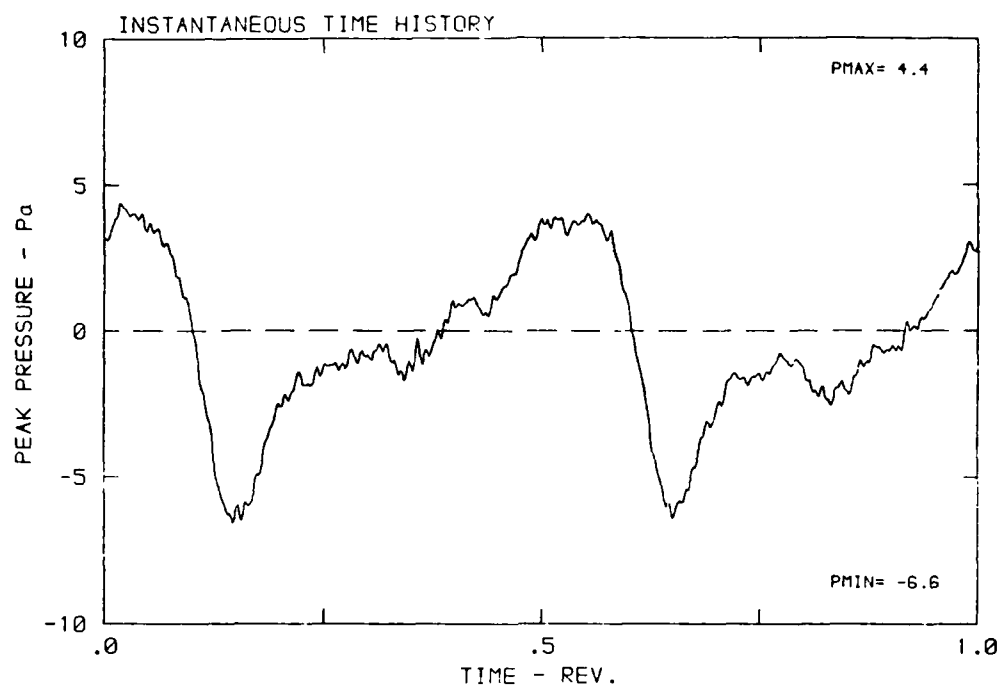
DATA POINT: BC-1 RUN: 77 MP: 1

β : 20.7° MH: .5732 n: 1800 rpm v/u : .179 ϕ : .0° T: 286.6 K



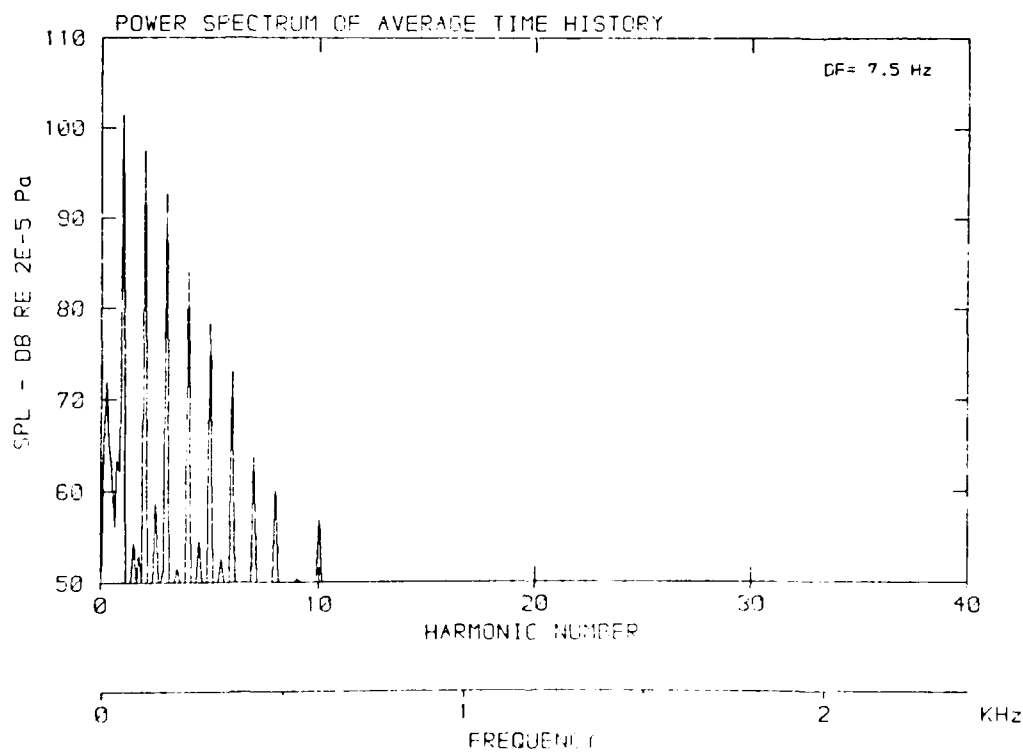
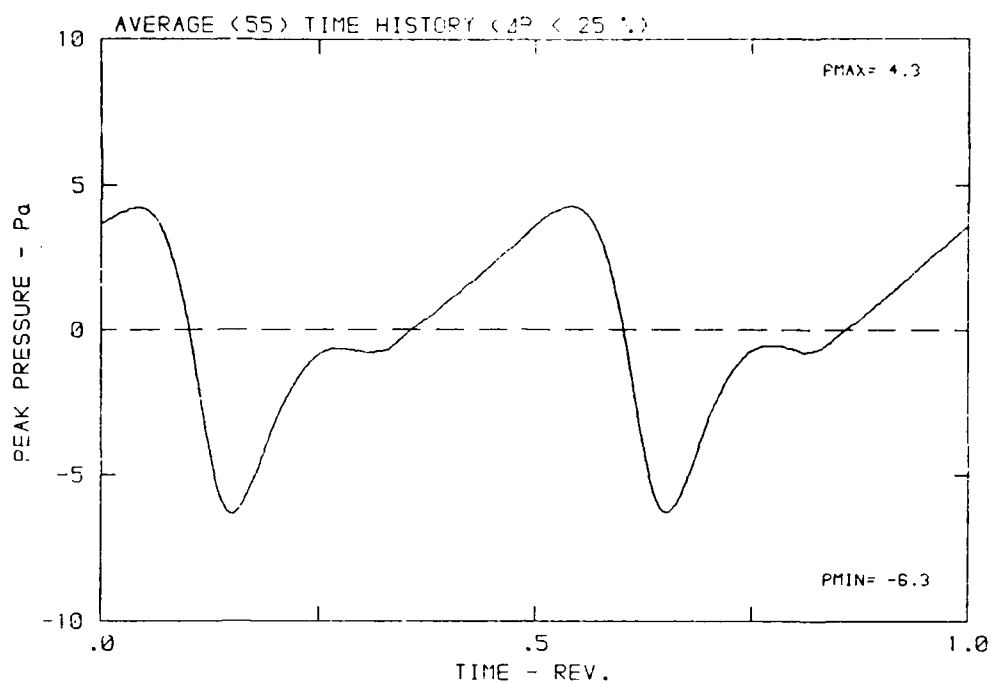
DATA POINT: BC-1 RUN: 77 MP: 2

β : 20.7° MH: .5732 n: 1500 rpm v/u: .179 ϕ : .0° T: 286.6 K



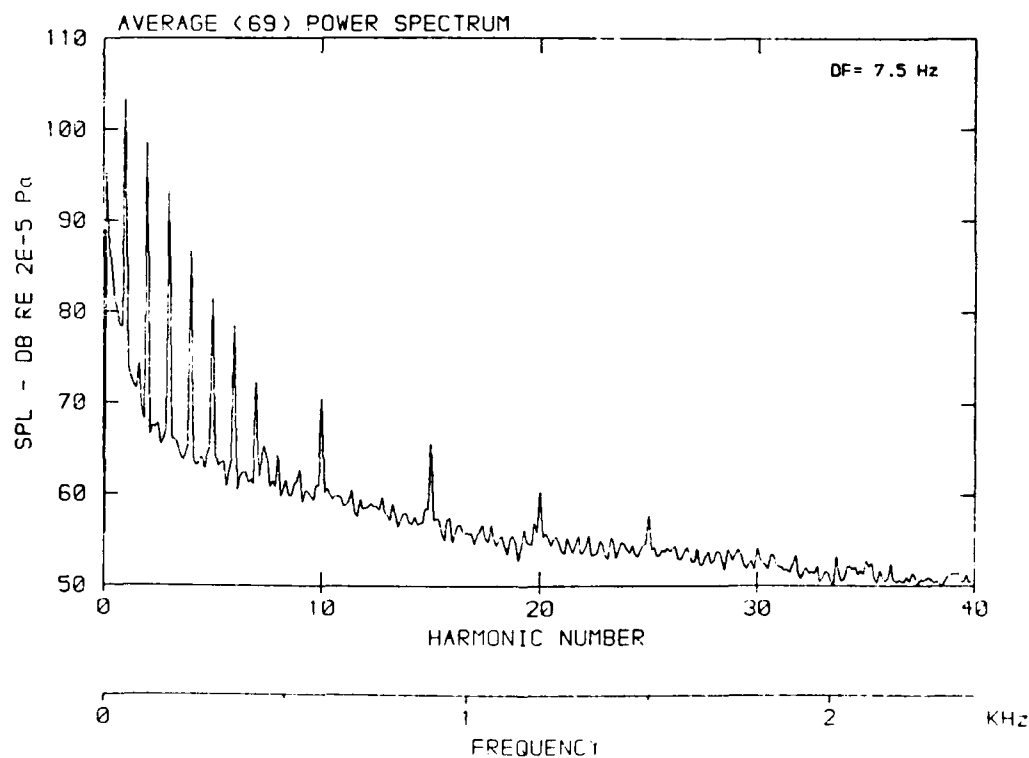
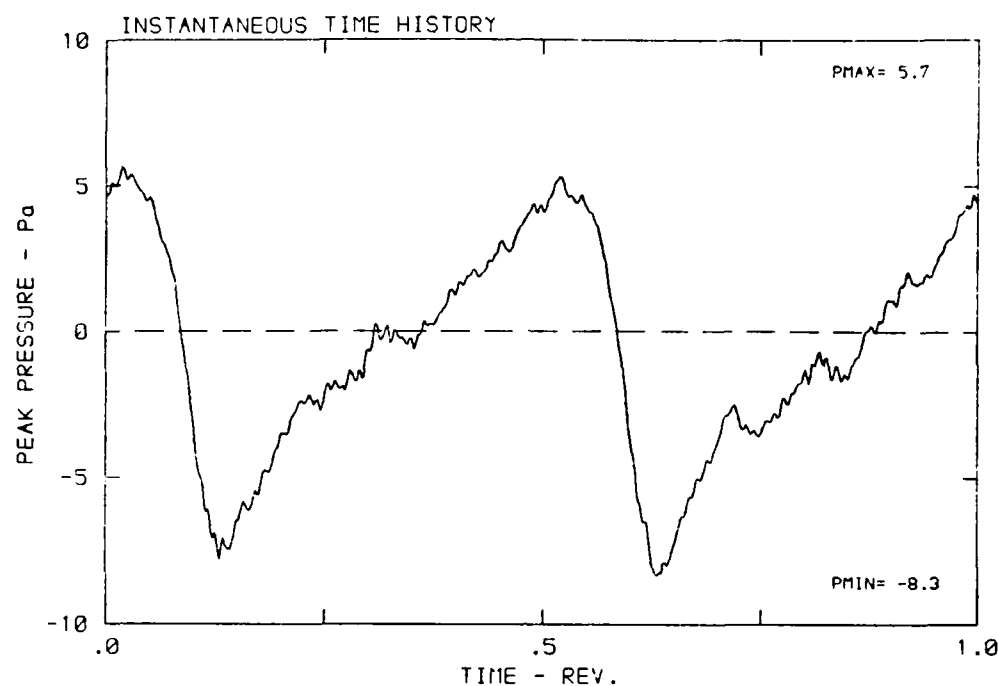
DATA POINT: BC-1 RUN: 77 MP: 2

β : 20.7° MH: .5732 n: 1800 rpm v/u : .179 ϕ : .0° T: 286.6 K



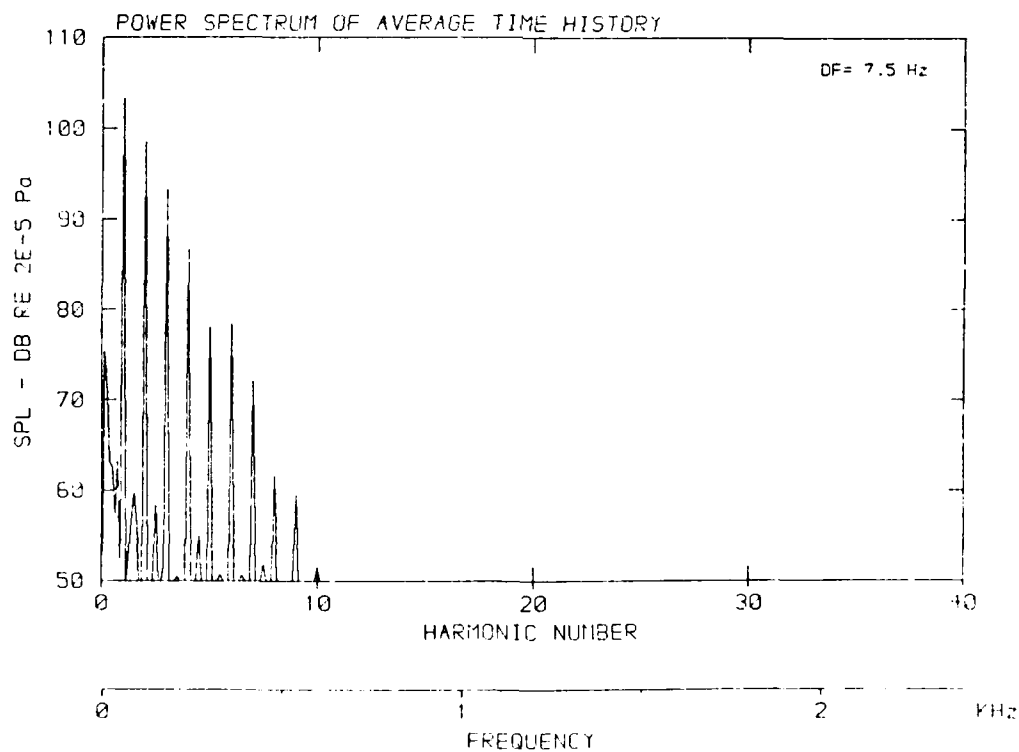
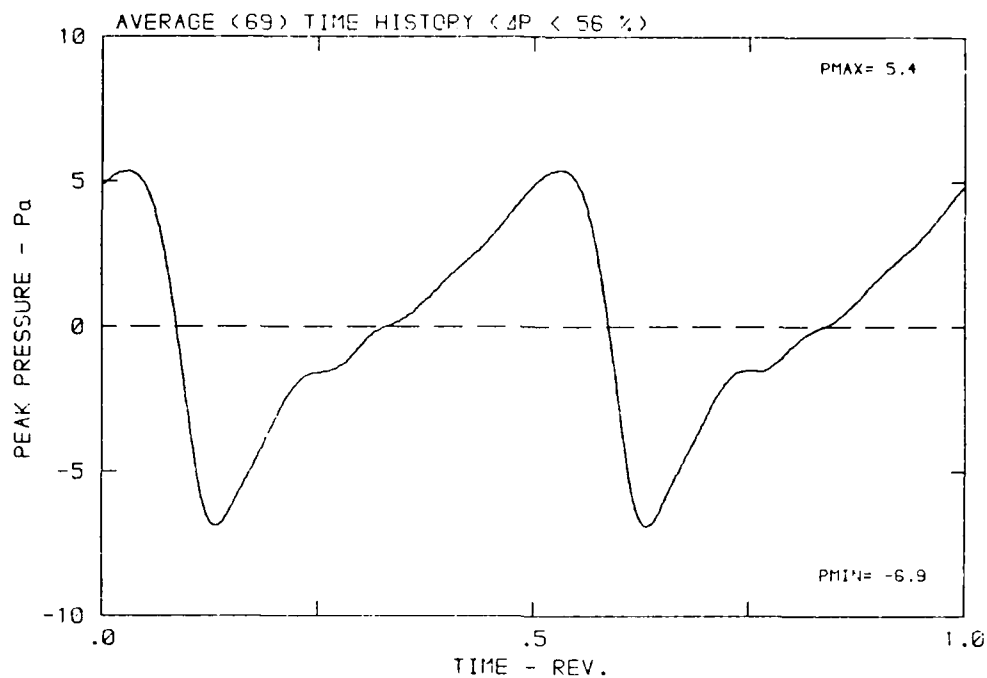
DATA POINT: BC-1 RUN: 77 MP: 3

β : 20.7° MH: .5732 n: 1800 rpm v/u: .179 ψ : .0° T: 256.6 K



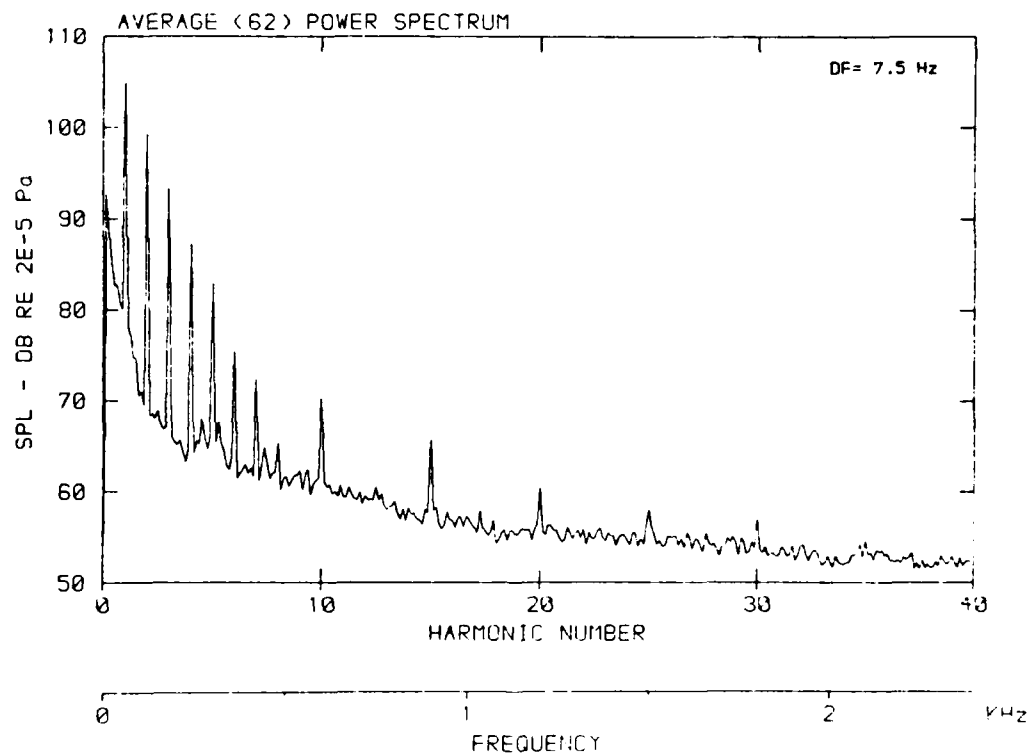
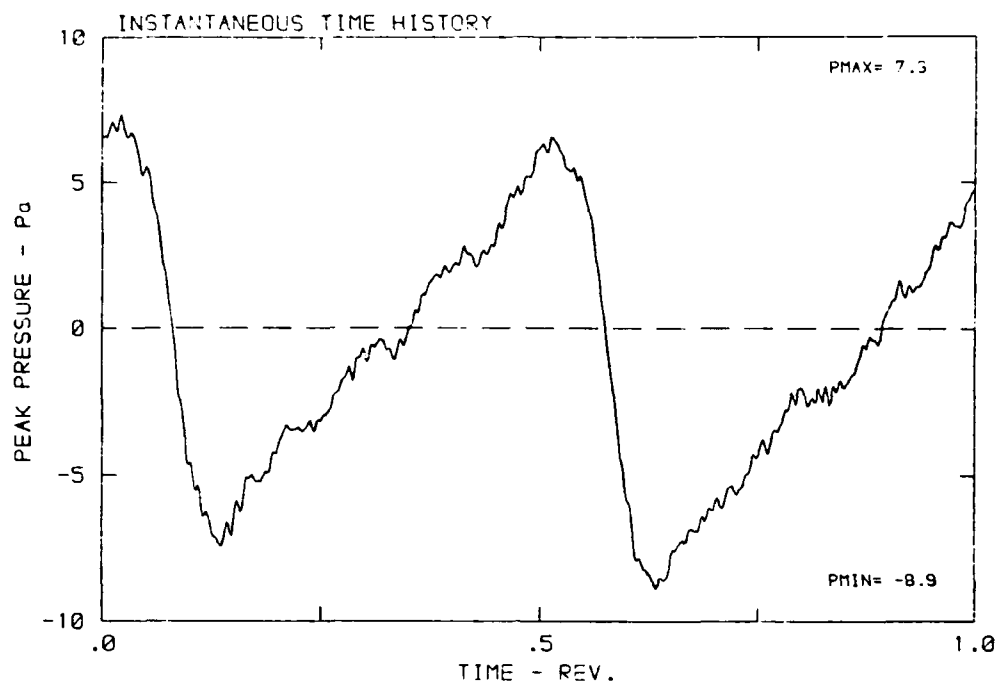
DATA POINT: BC-1 RUN: 77 MP: 3

β : 20.7° MH: .5732 n: 1800 rpm v/u : .179 ϕ : .0° T: 286.6 K



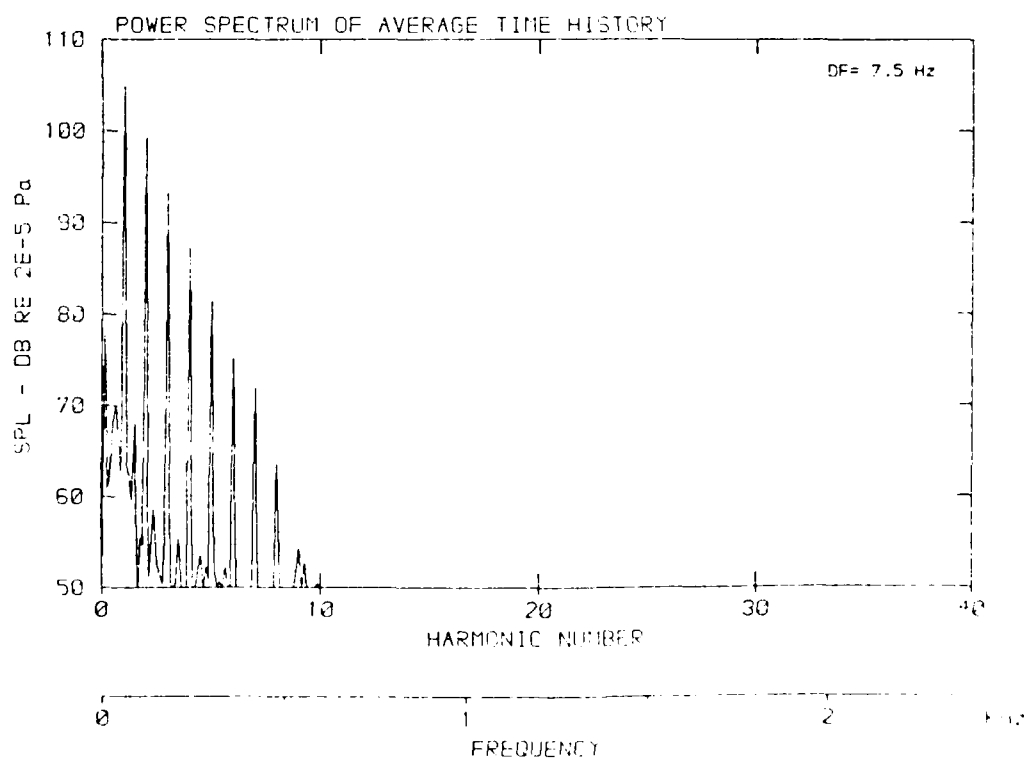
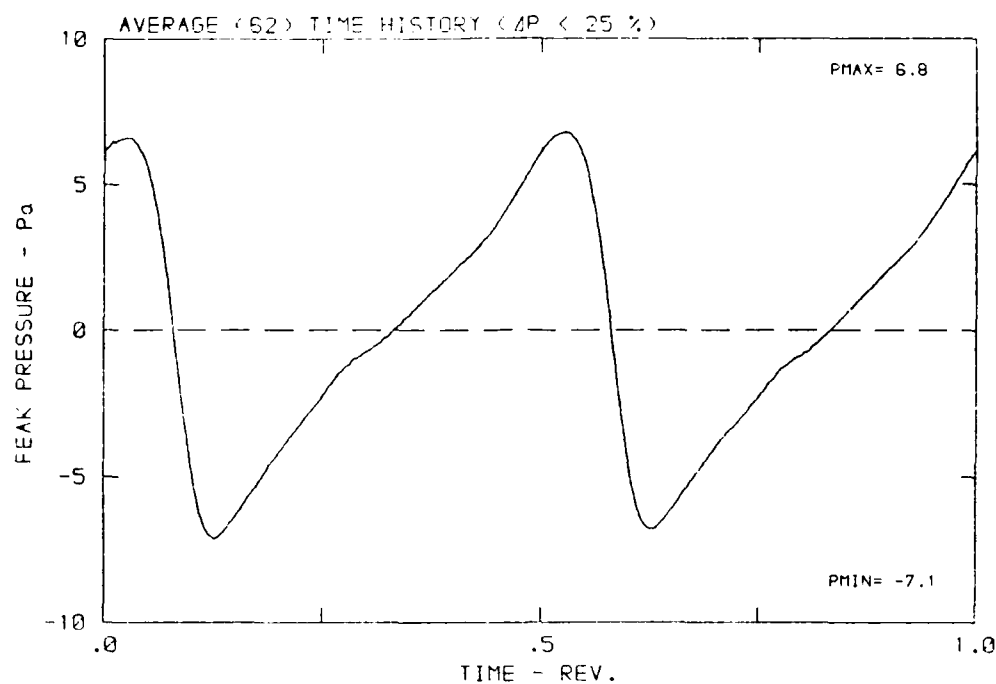
DATA POINT: BC-1 RUN: 77 MP: +

β : 20.7° MH: .5732 n: 1800 rpm v_{tu} : .179 ϕ : .0° T: 295.6 K



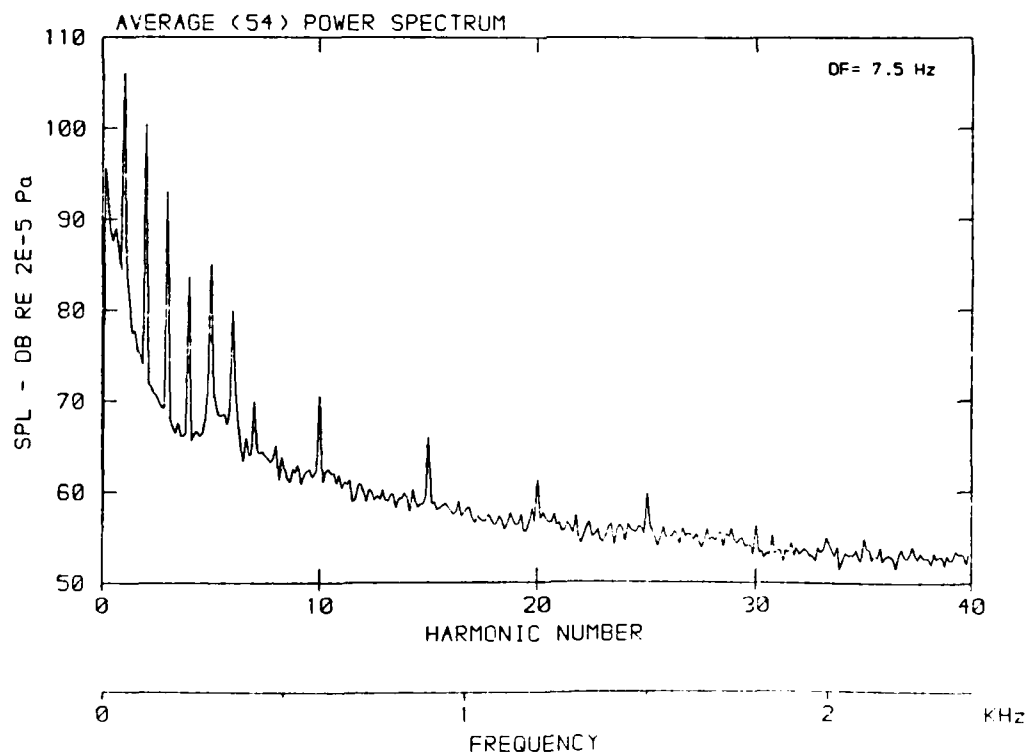
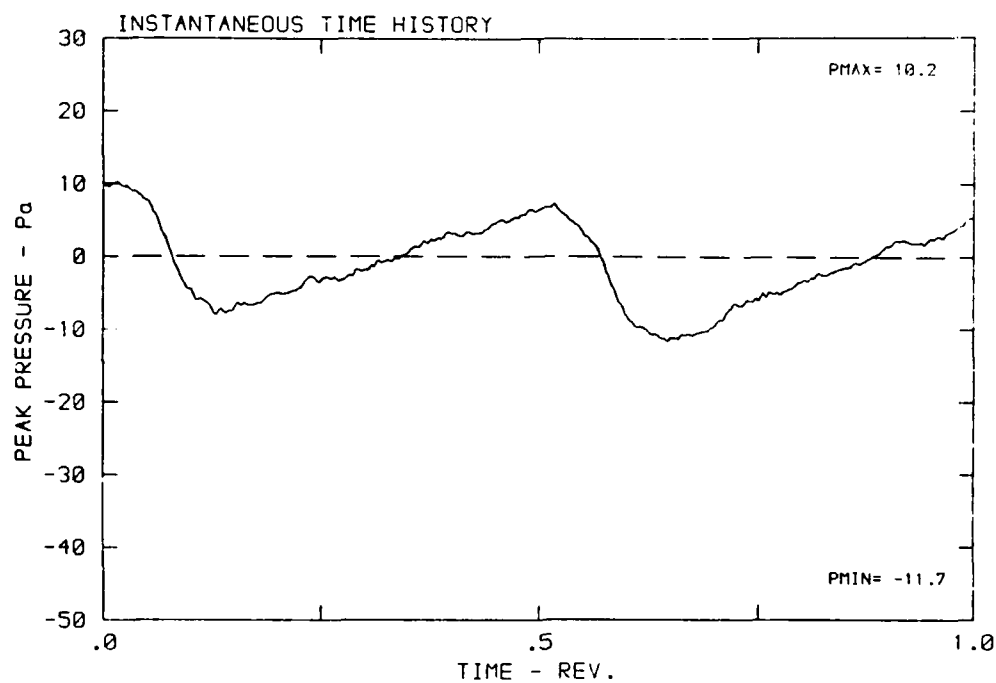
DATA POINT: BC-1 RUN: 77 MP: 4

β : 20.7° MH: .5732 n: 1800 rpm v_{zu} : .179 ϕ : .0° T: 286.6 K



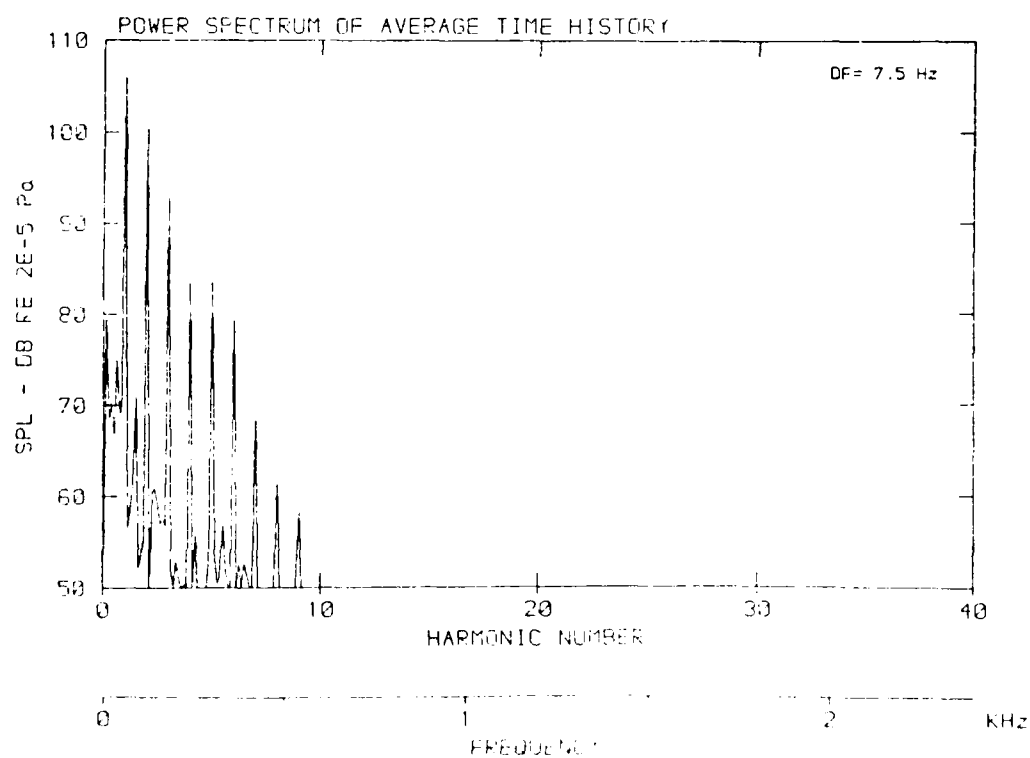
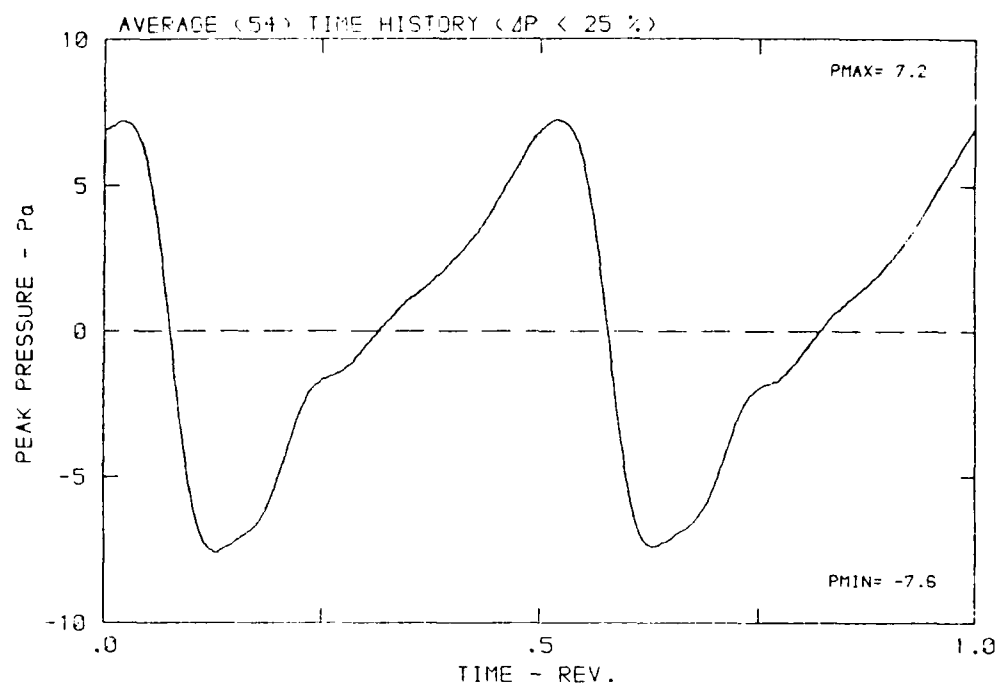
DATA POINT: BC-1 RUN: 77 MP: 5

β : 20.7° MH: .5732 n: 1800 rpm v/u : .179 ϕ : .0° T: 286.6 K



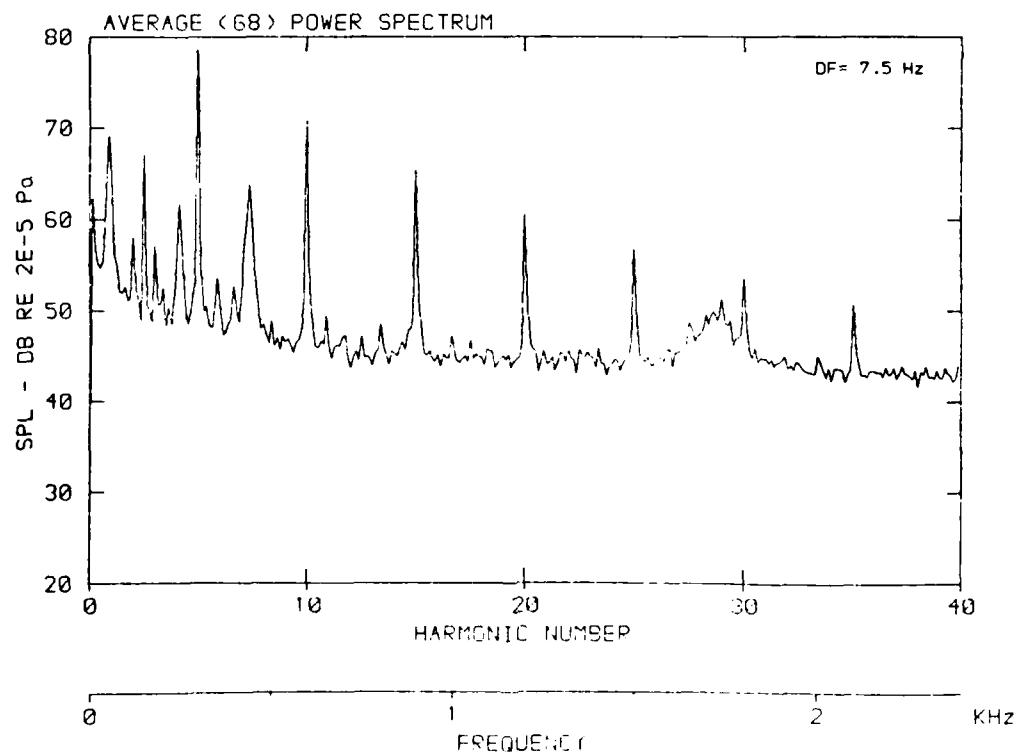
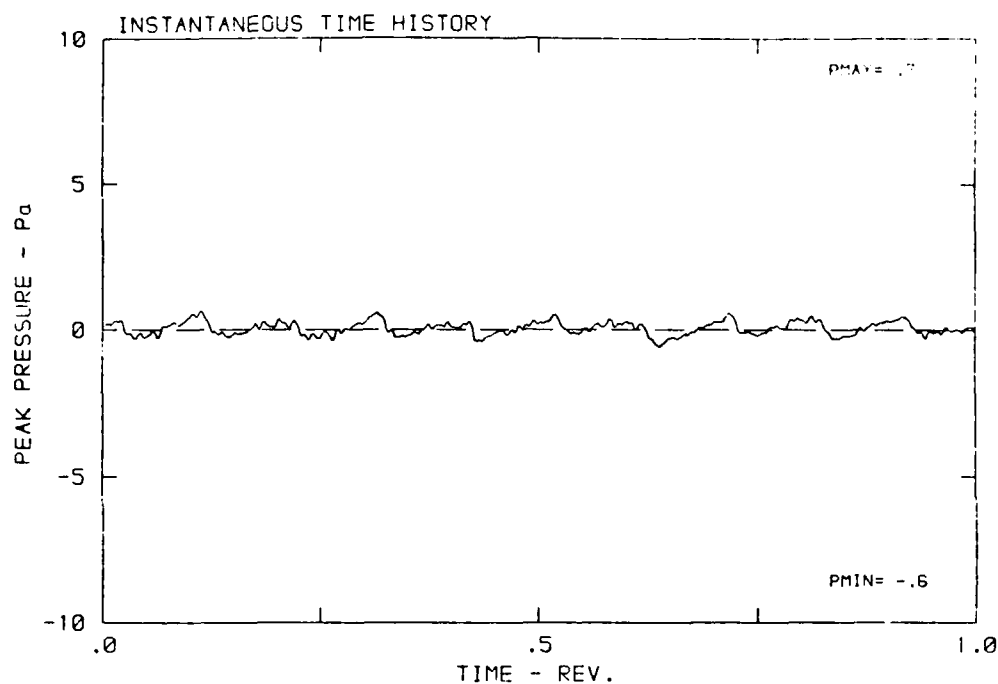
DATA POINT: BC-1 RUN: 77 MP: 5

β : 20.7° MH: .5732 n: 1800 rpm v/u : .179 ϕ : .0° T: 286.6 K



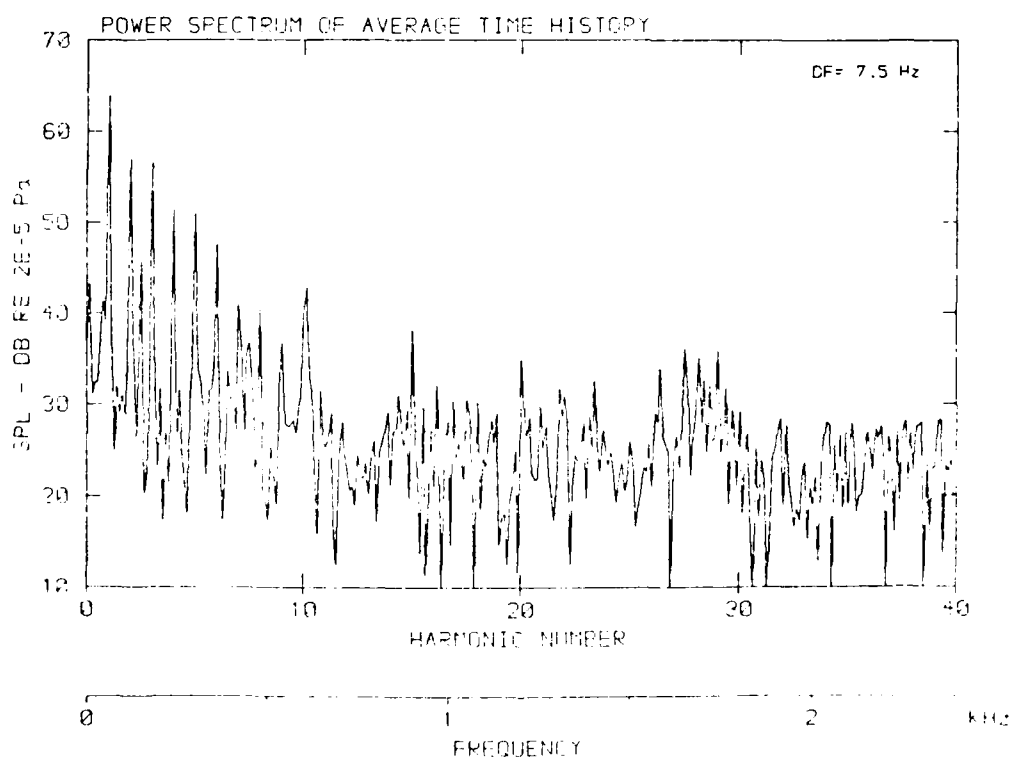
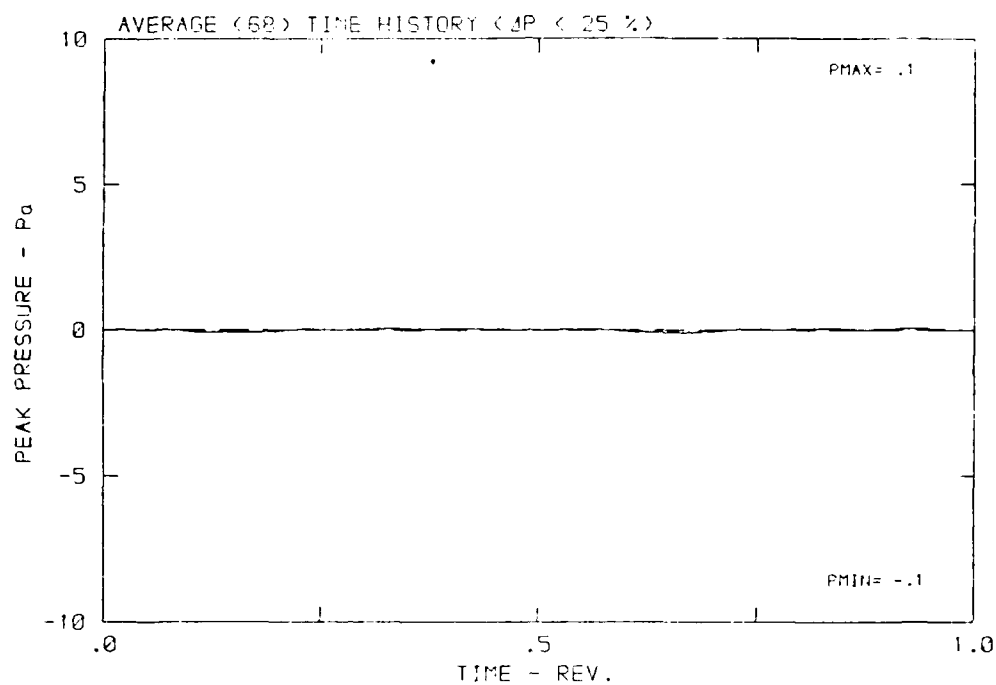
DATA POINT: BC-1 RUN: 77 MP: 6

β : 20.7° MH: .5732 n: 1800 rpm v/u : .179 ϕ : .0° T: 015.0



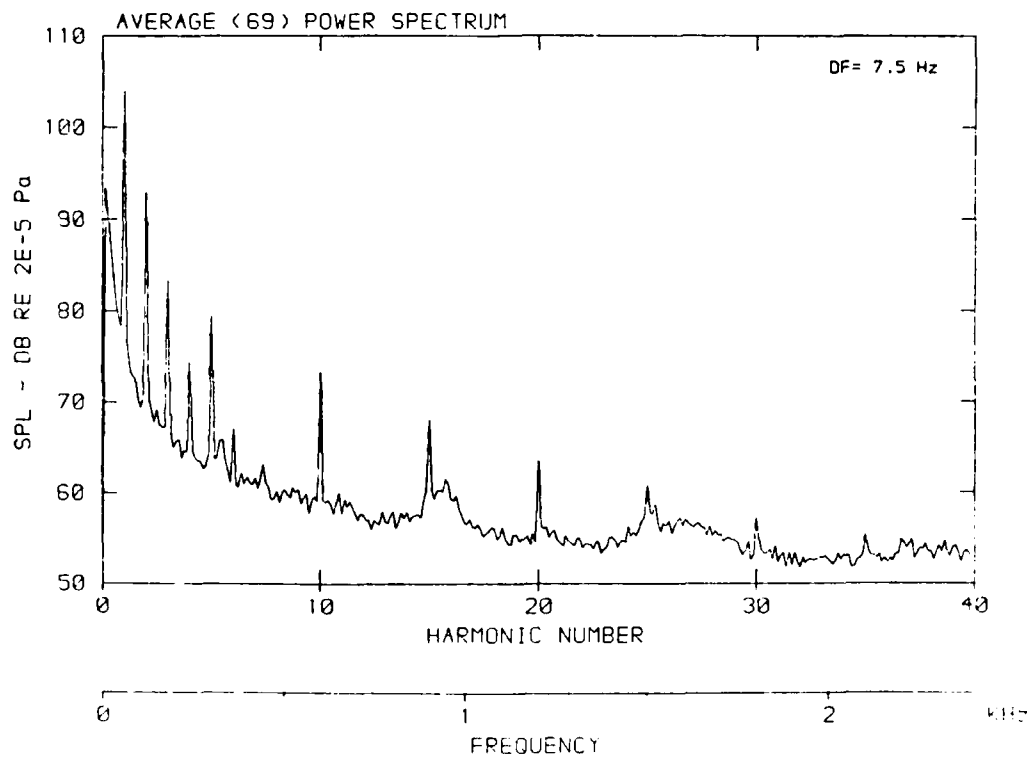
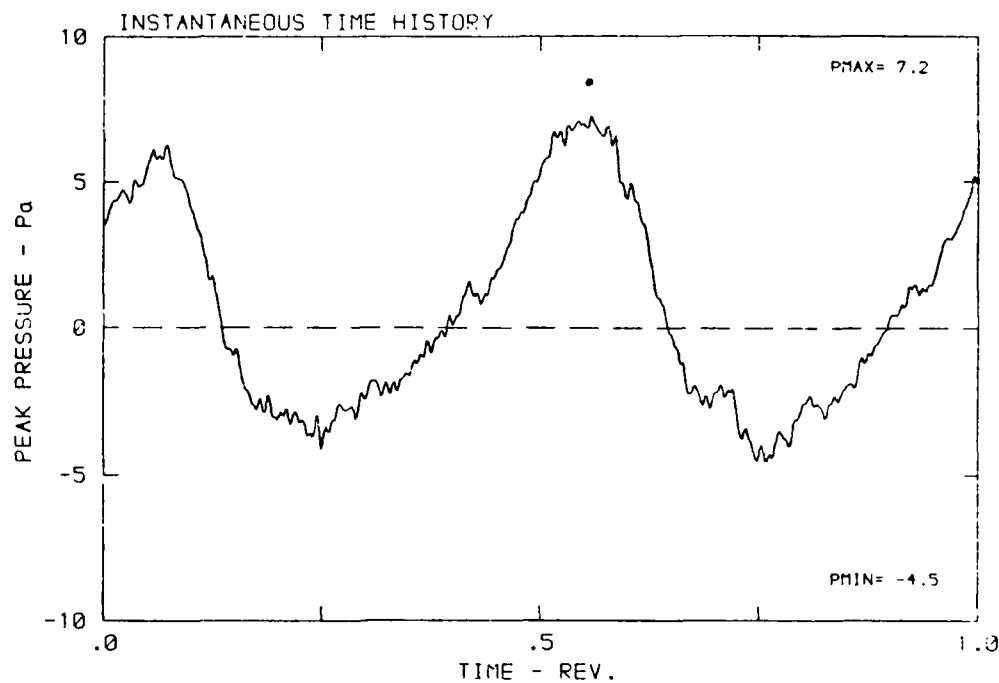
DATA POINT: BC-1 RUN: 77 MP: 6

β : 20.7° MH: .5732 n: 1800 rpm v/u : .179 ϕ : .0° T: 285.6 s



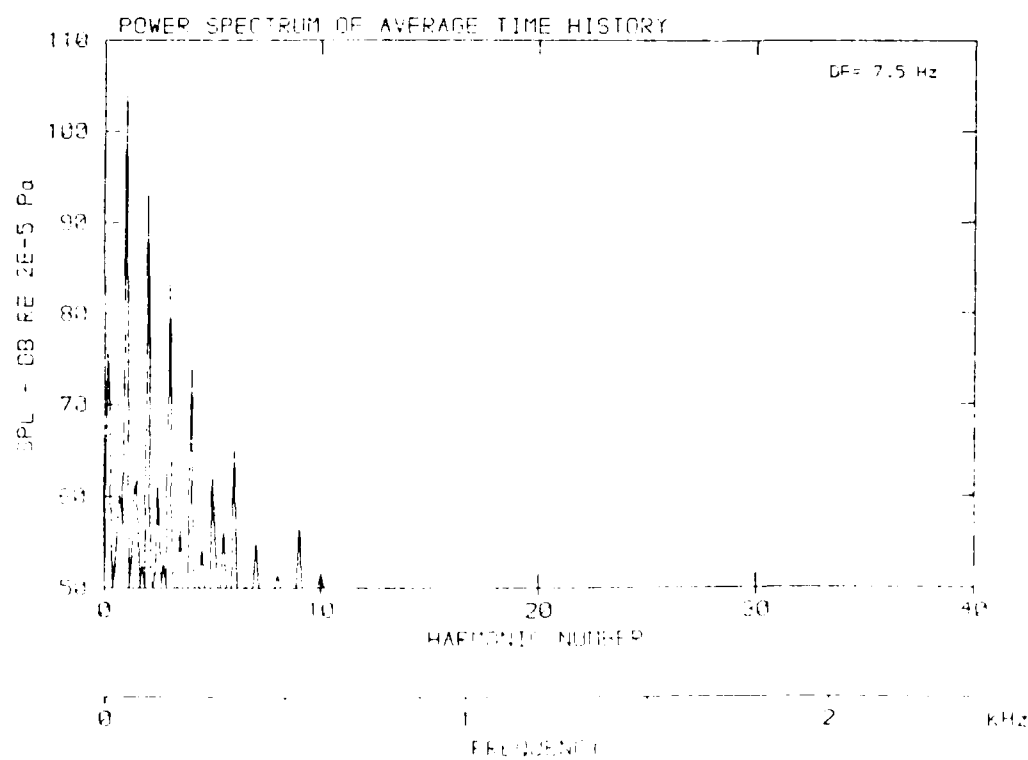
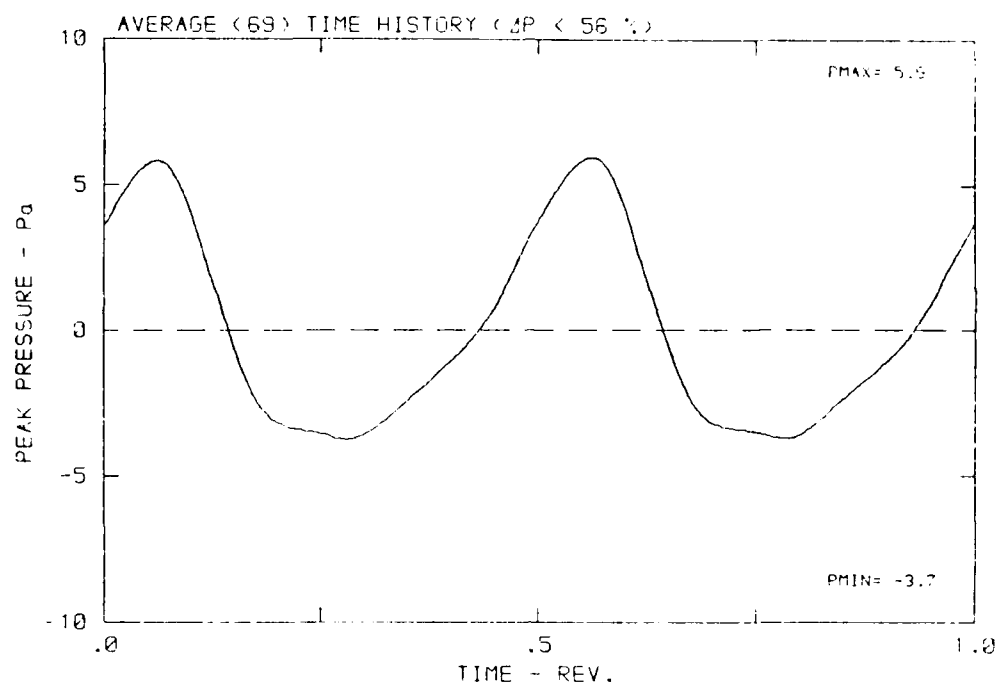
DATA POINT: BC-1 RUN: 77 MP: 7

β : 20.7° MH: .5732 n: 1800 rpm v/u : .179 ϕ : .0° T: 233.6 K



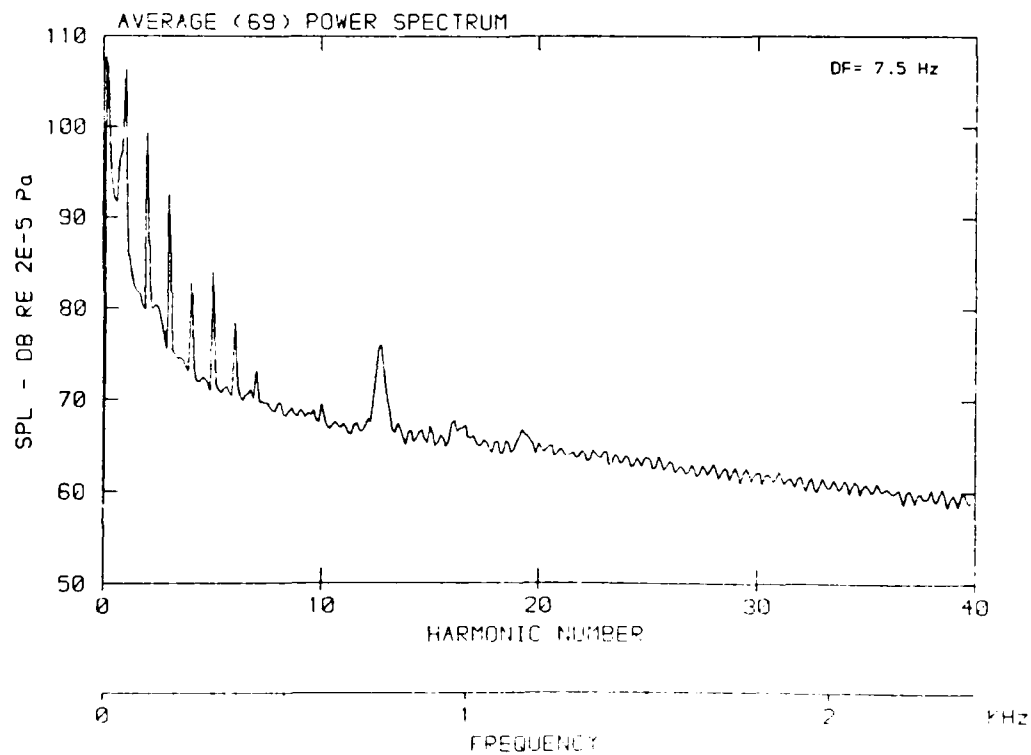
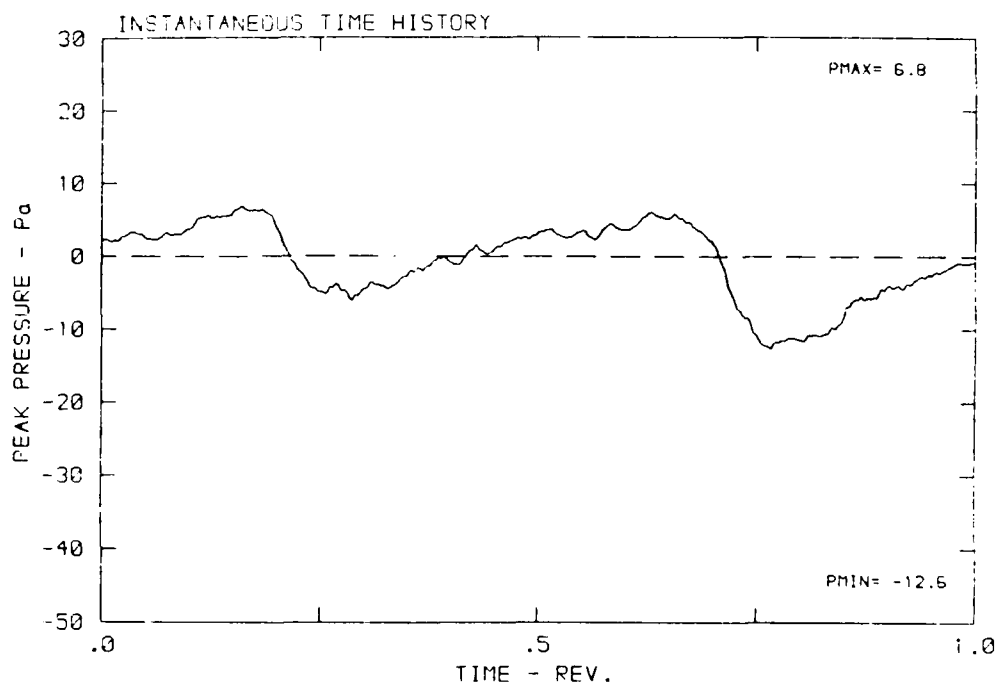
DATA POINT: BC-1 RUN: 77 MP: 7

β : 20.7° MH: .5732 n: 1800 rpm ν_{ru} : .179 ϕ : .0° T: 255.6 K



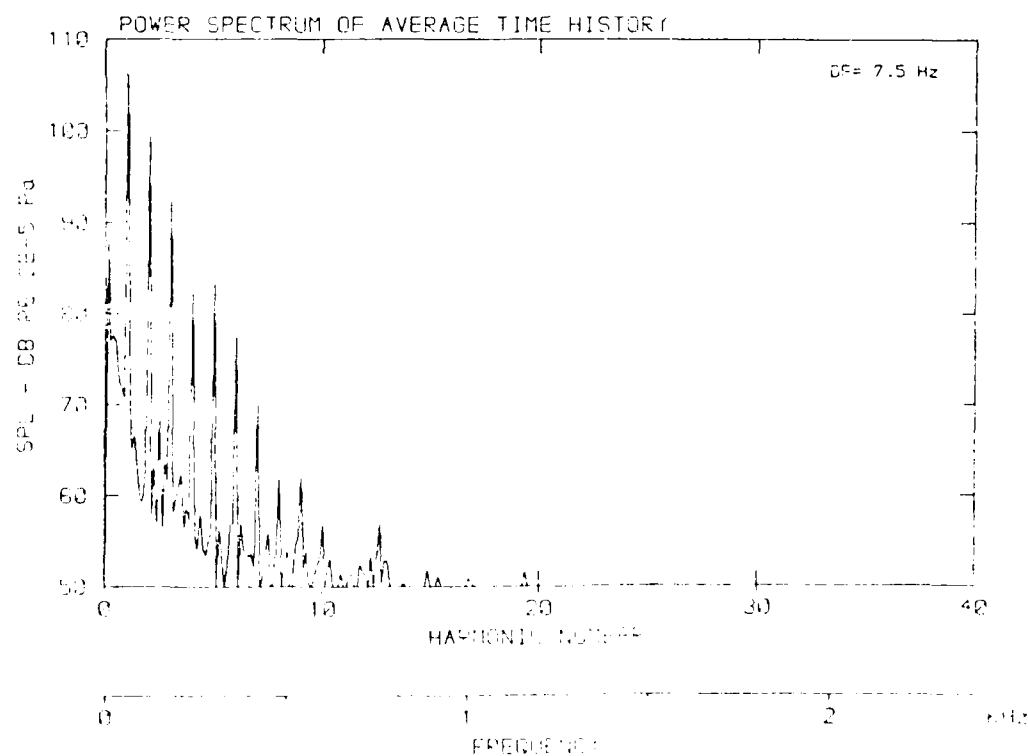
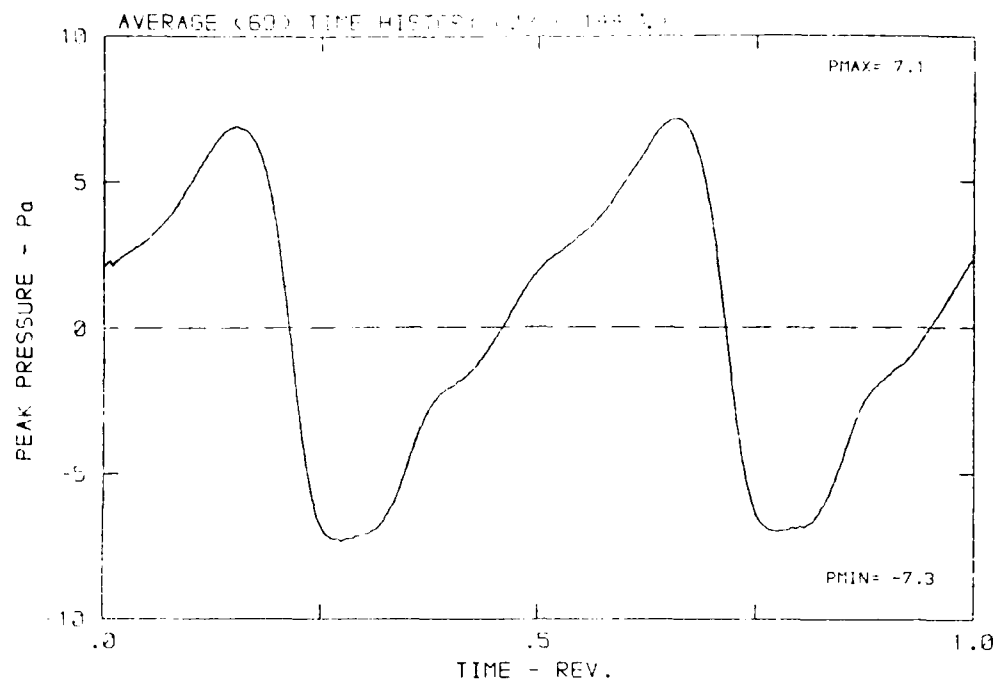
DATA POINT: BC-1 RUN: 77 MP: 9

β : 20.7° MH: .5732 n: 1820 rpm v/u: .179 ϕ : .0° T: 255.1



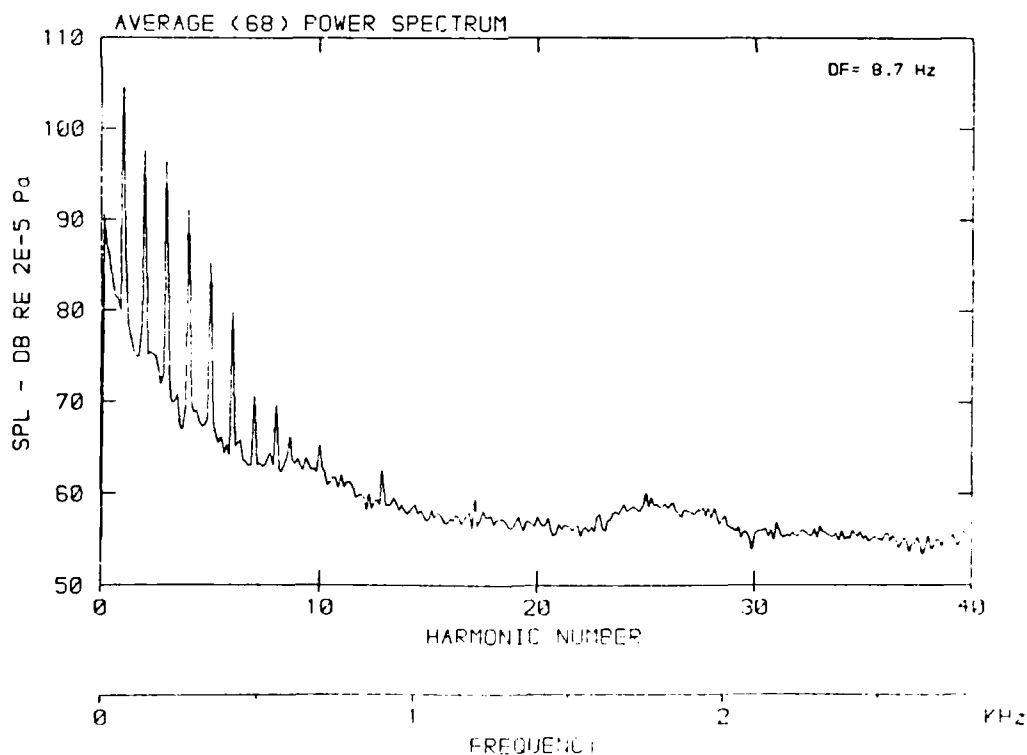
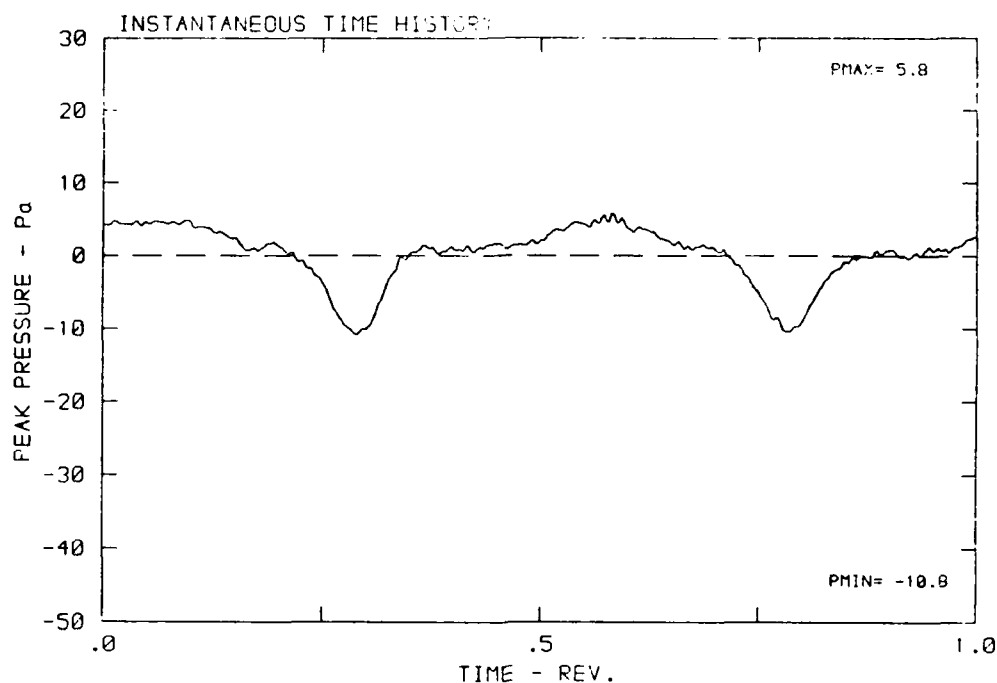
DATA POINT: BL-1 RUN: 77 RP: 9

β : 20.7° MH: .5732 n: 1800 rpm γ : .170 ϕ : .0° T: 285.6 K



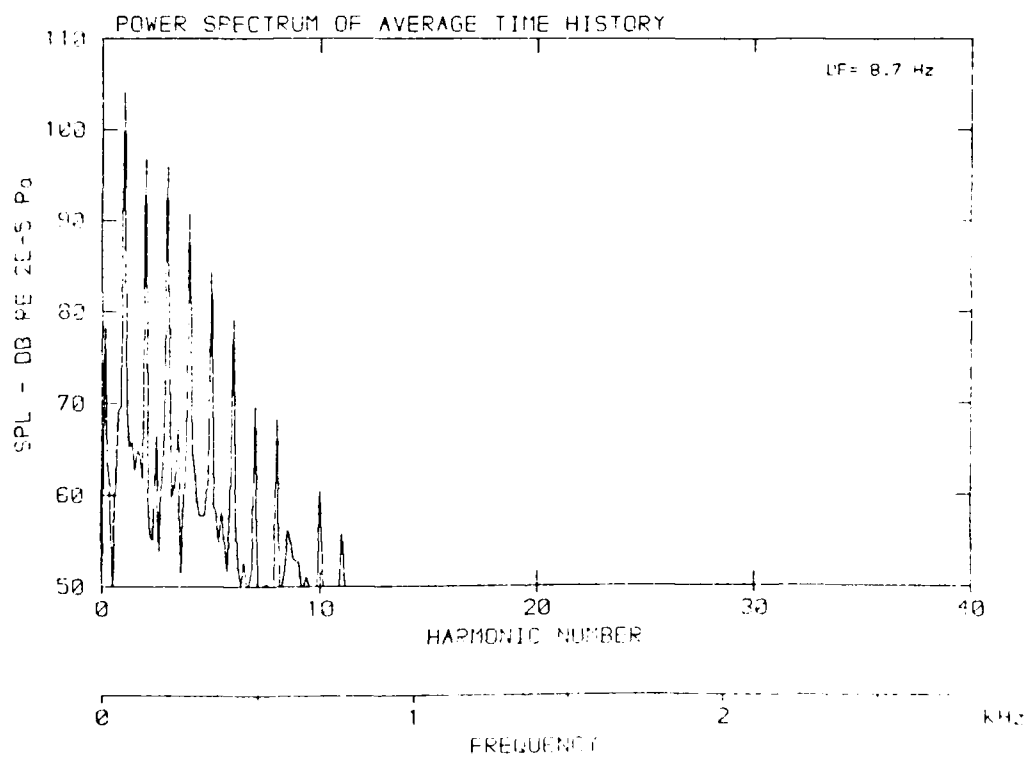
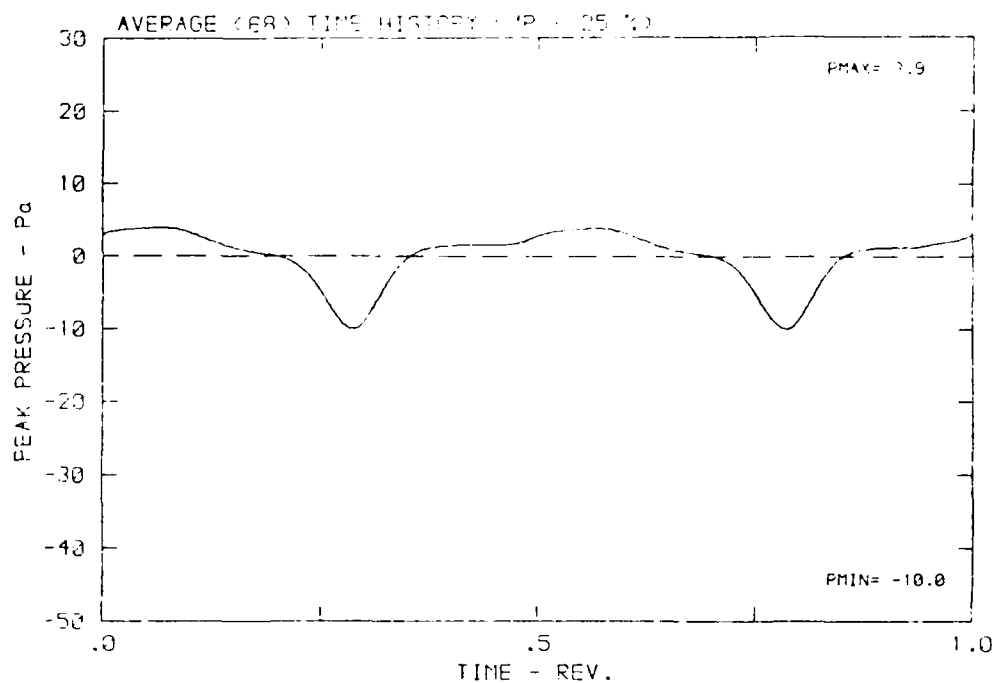
DATA POINT: BC-2 RUN: 76 MP: 1

β : 20.7° MH: .6567 n: 2100 rpm ν : .179 ρ : 1.0° T: 298.0 K



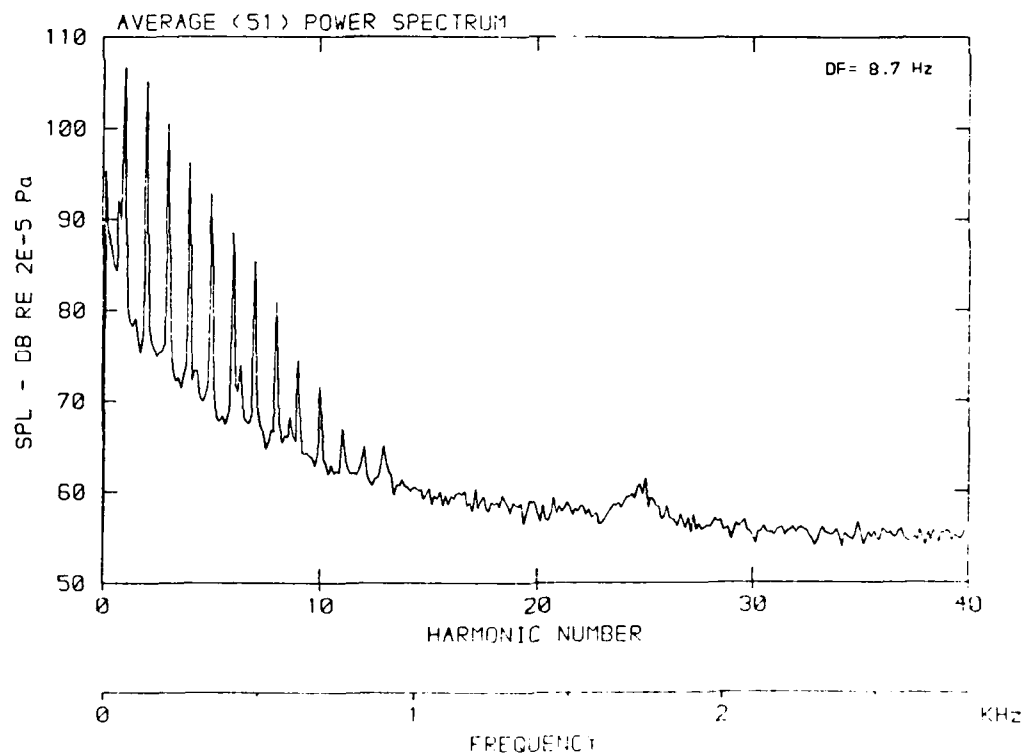
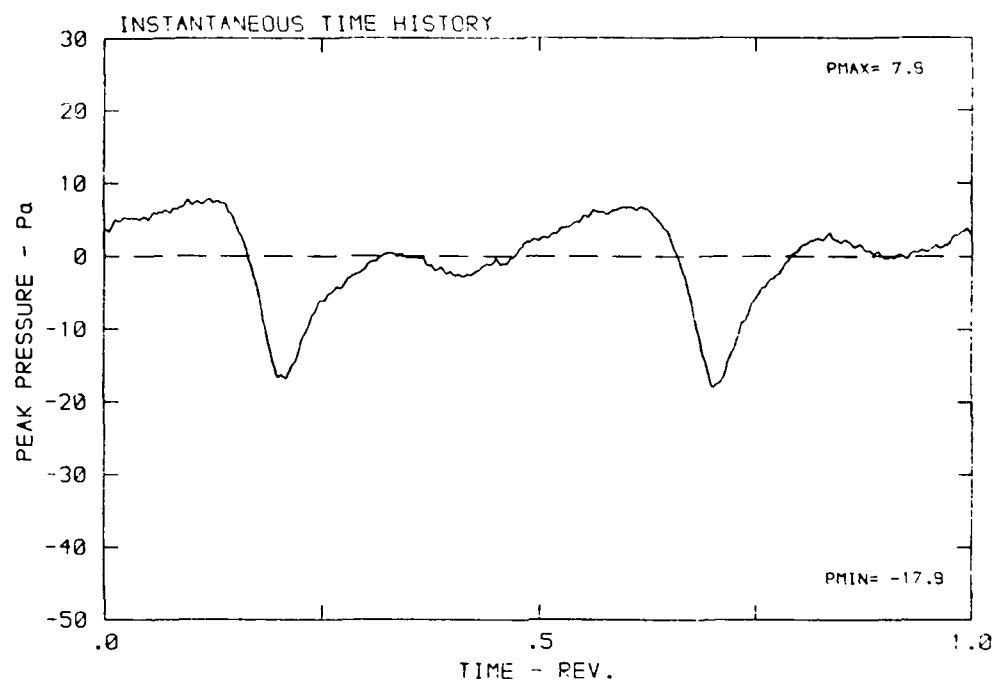
DATA POINT: BC-2 RUN: 76 MP: 1

β : 20.7° MH: .6687 n: 2100 rpm v/u : .179 ϕ : .0° T: 286.6 K



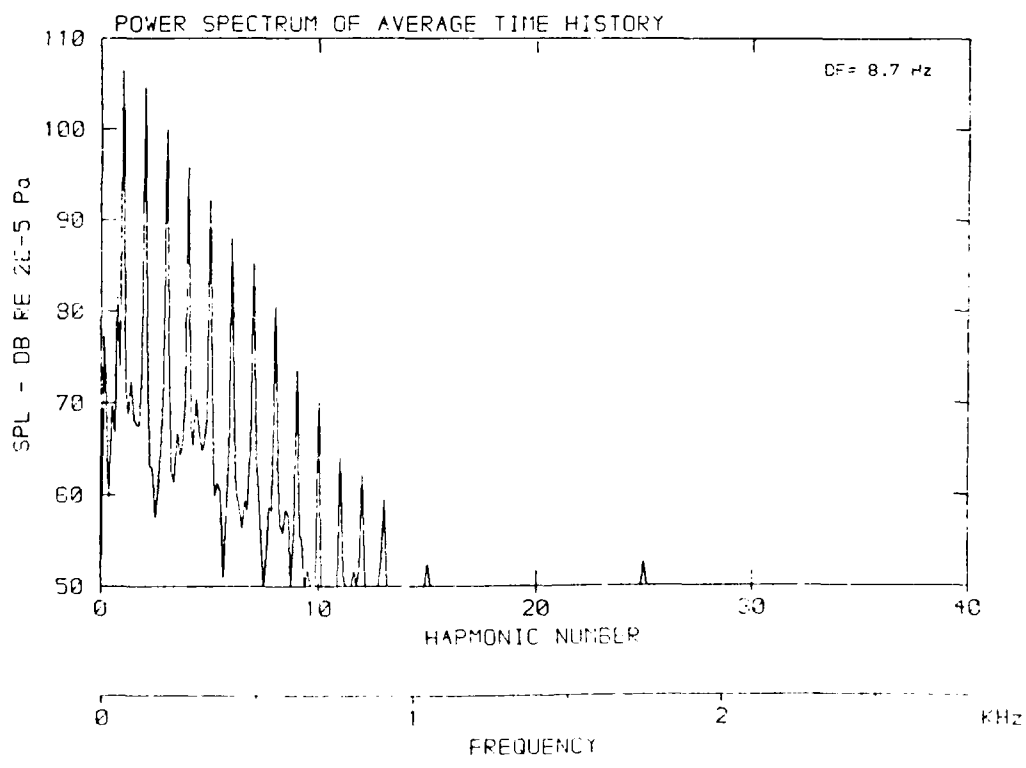
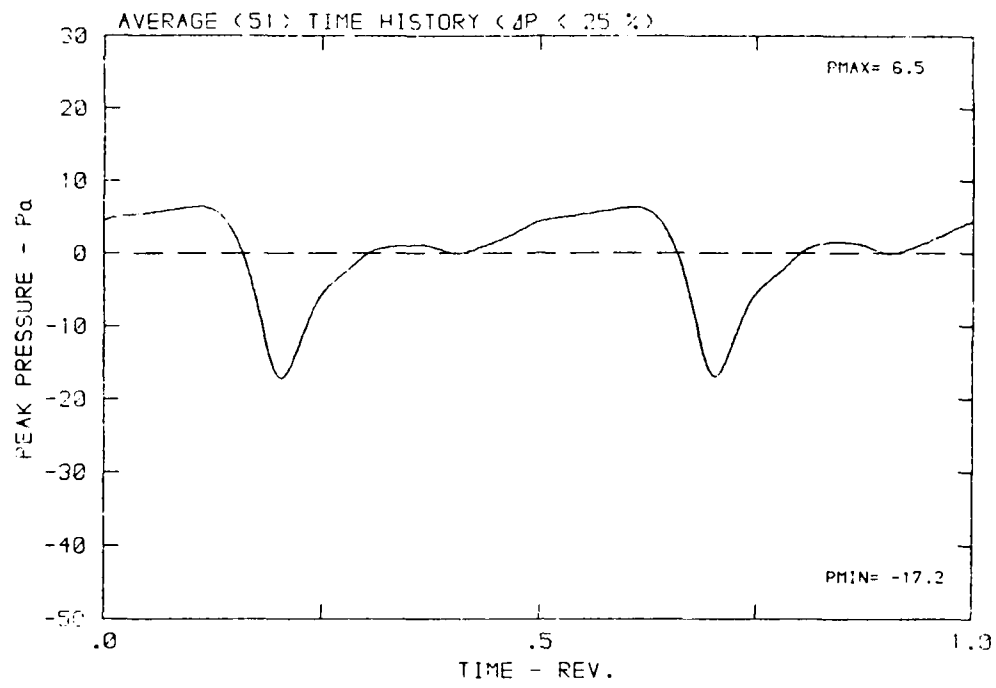
DATA POINT: BC-2 RUN: 76 MP: 2

β : 20.7° MH: .6687 n: 2100 rpm ν : .179 ϕ : .0° T: 295.6 K



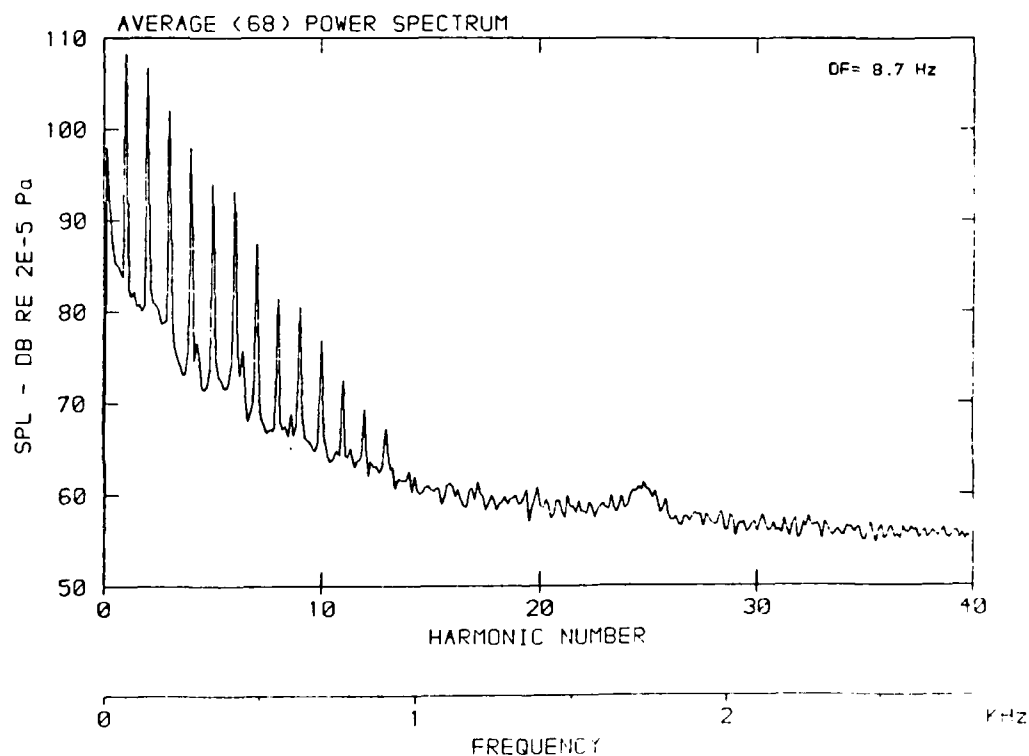
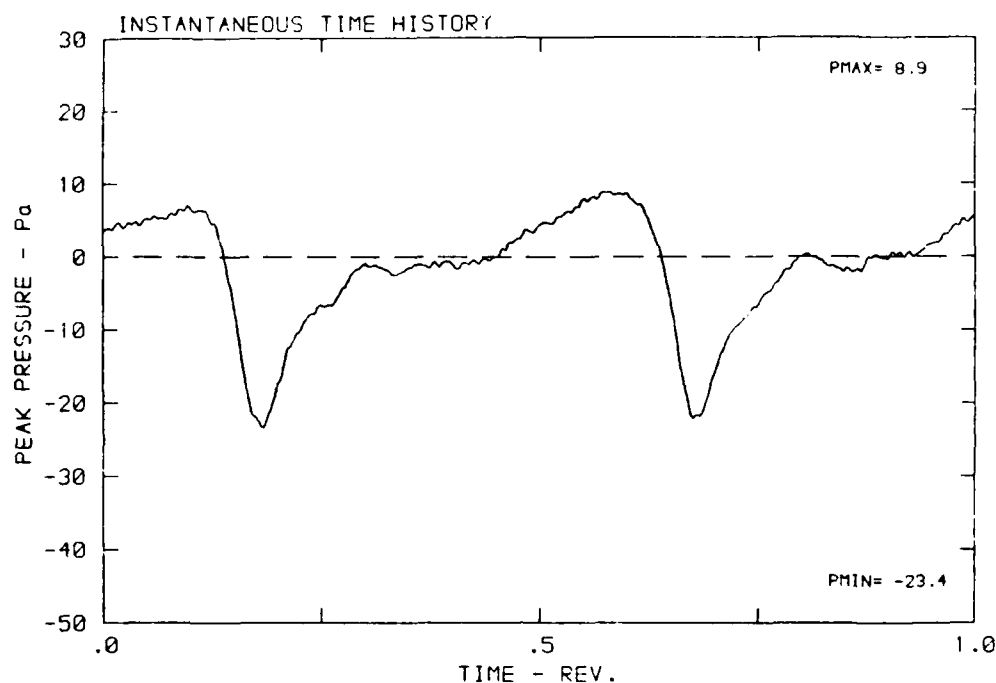
DATA POINT: BC-2 RUN: 76 MP: 2

β : 20.7° MH: .6687 n: 2100 rpm v/u : .179 ϕ : .0° T: 286.6 K



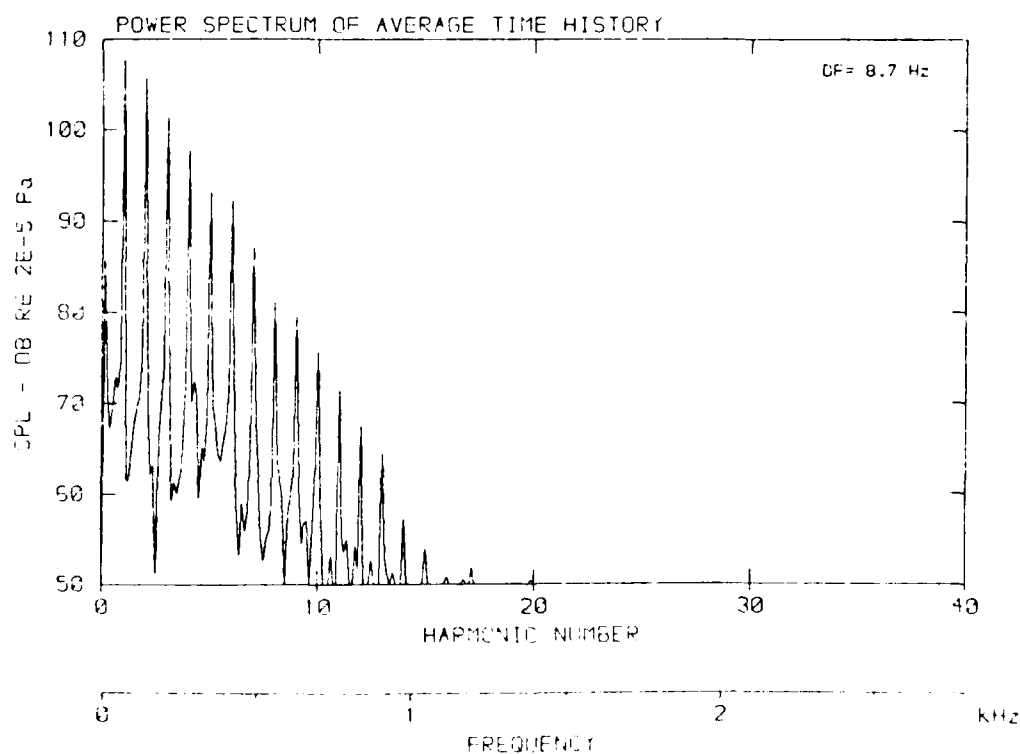
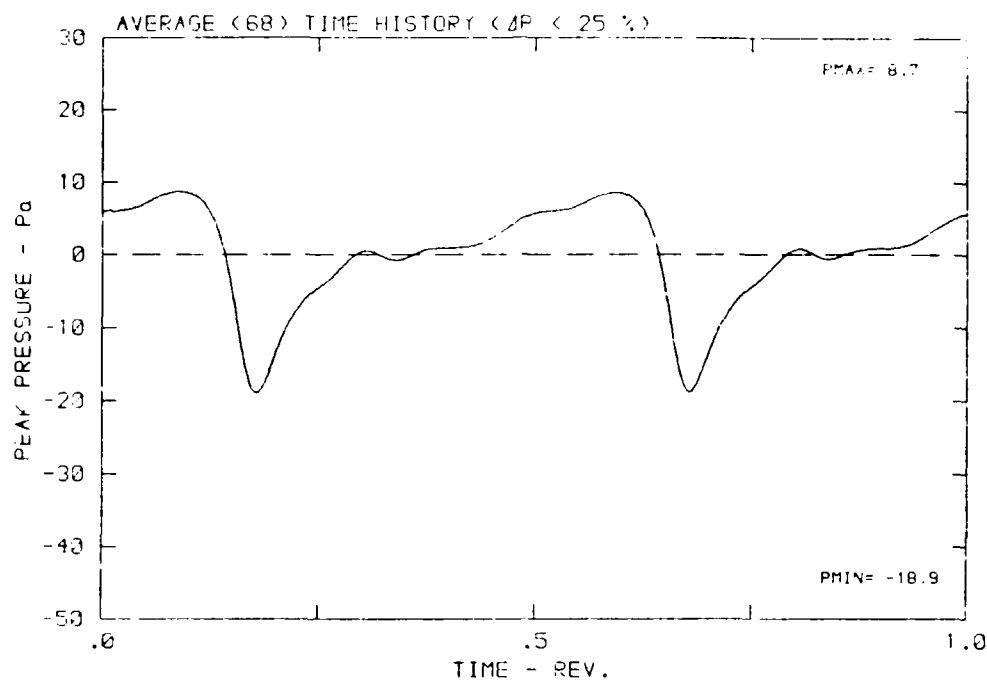
DATA POINT: BC-2 RUN: 76 MP: 3

β : 20.7° MH: .6687 n: 2100 rpm v/u: .179 ϕ : .0° T: 266.6 K



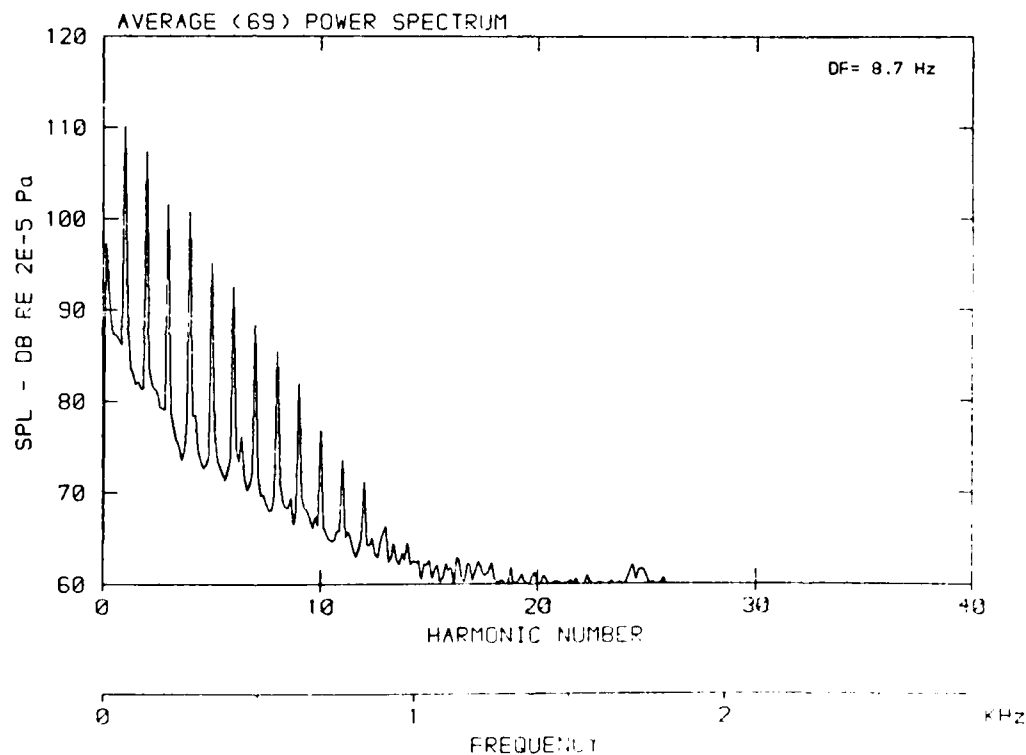
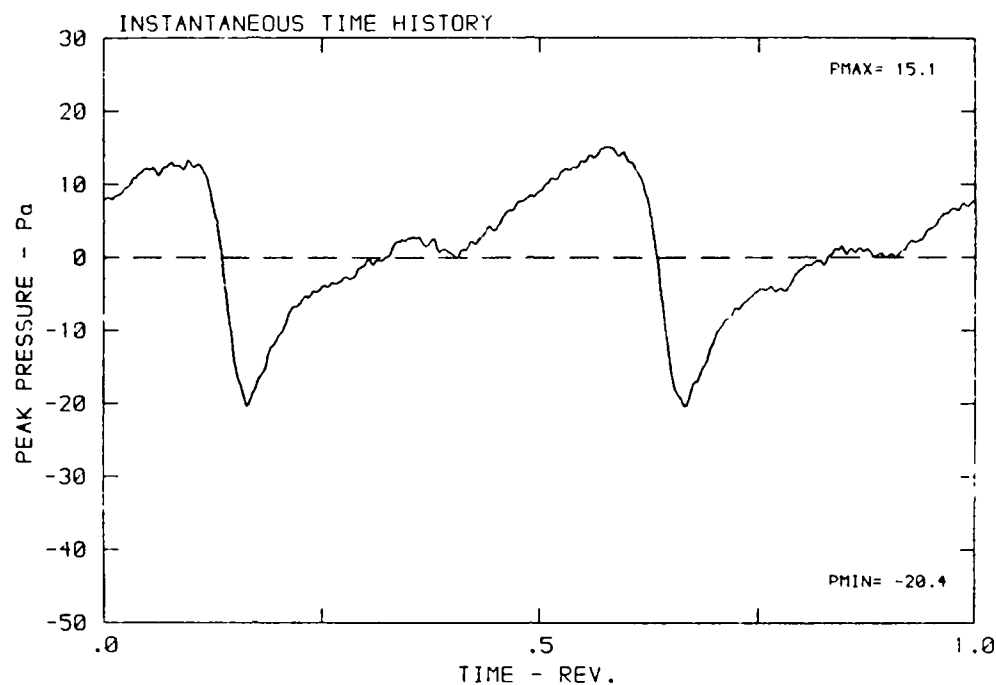
DATA POINT: BC-2 RUN: 76 MP: 3

β : 20.7° MH: .6687 n: 2100 rpm χu : .170 ϕ : .0° T: 289.6 K



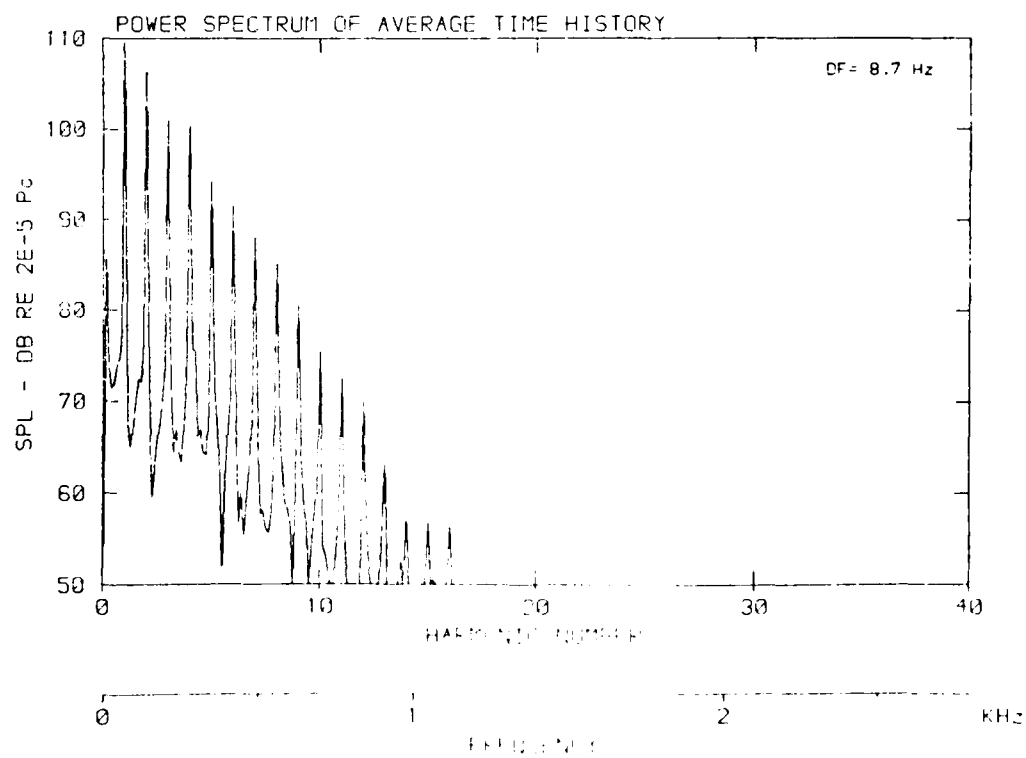
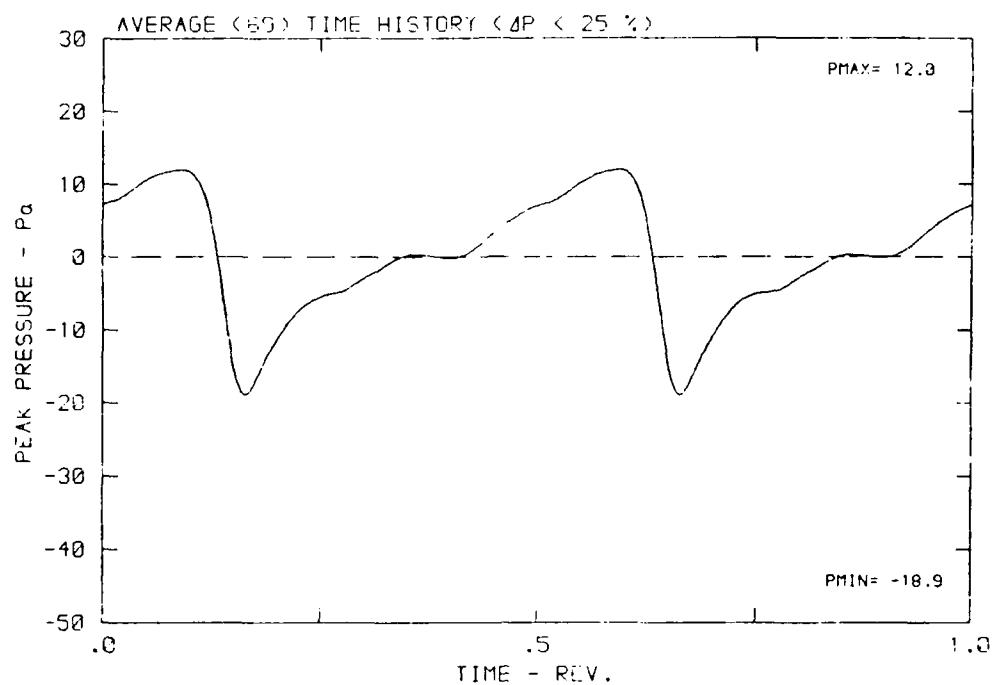
DATA POINT: BC-2 RUN: 76 MP: 4

β : 20.7° MH: .6687 n: 2100 rpm v/u: .179 ϕ : .0° T: 286.6 K



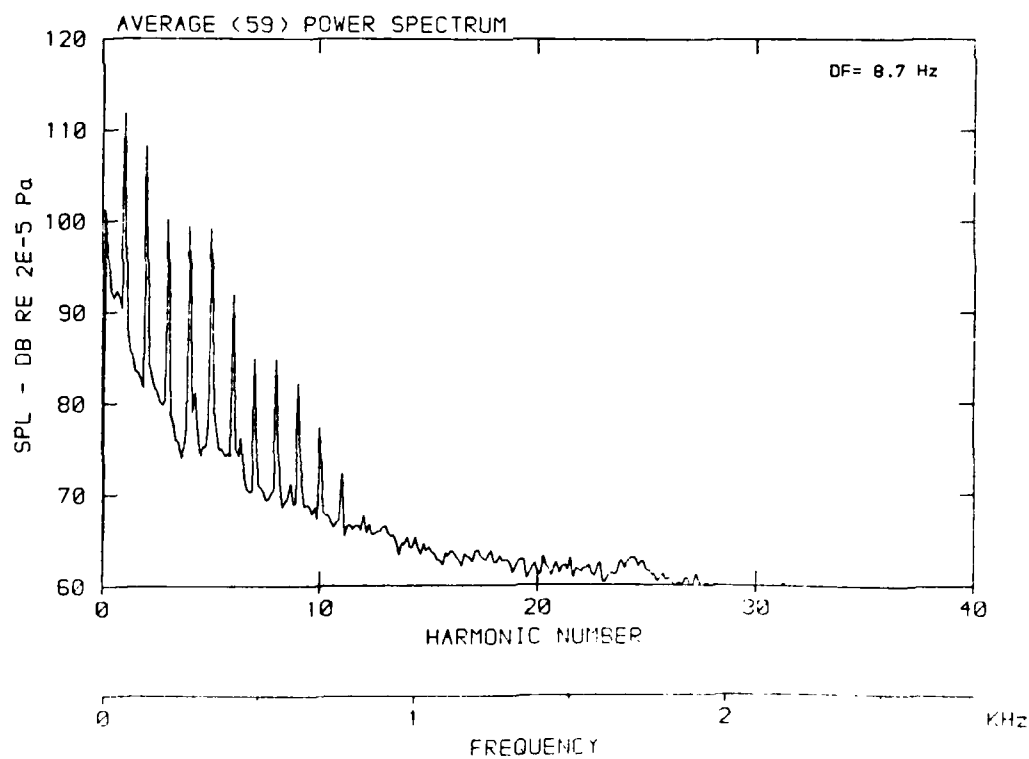
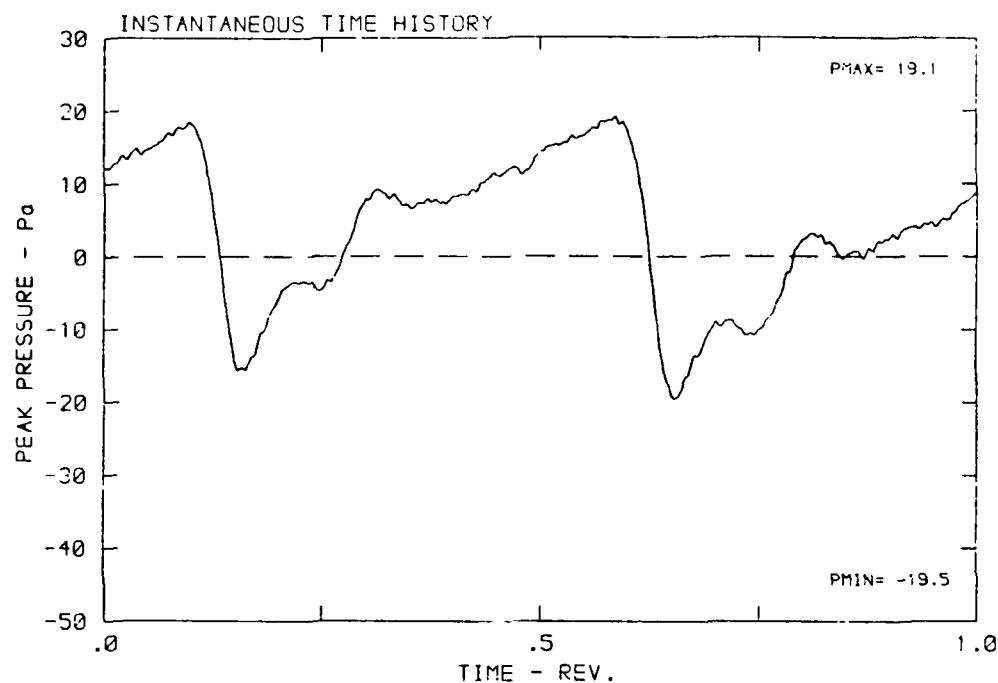
DATA POINT: BC-2 RUN: 76 MP: 4

β : 20.7° MH: .6687 n: 2100 rpm v/u : .179 ϕ : .0° T: 296.6 K



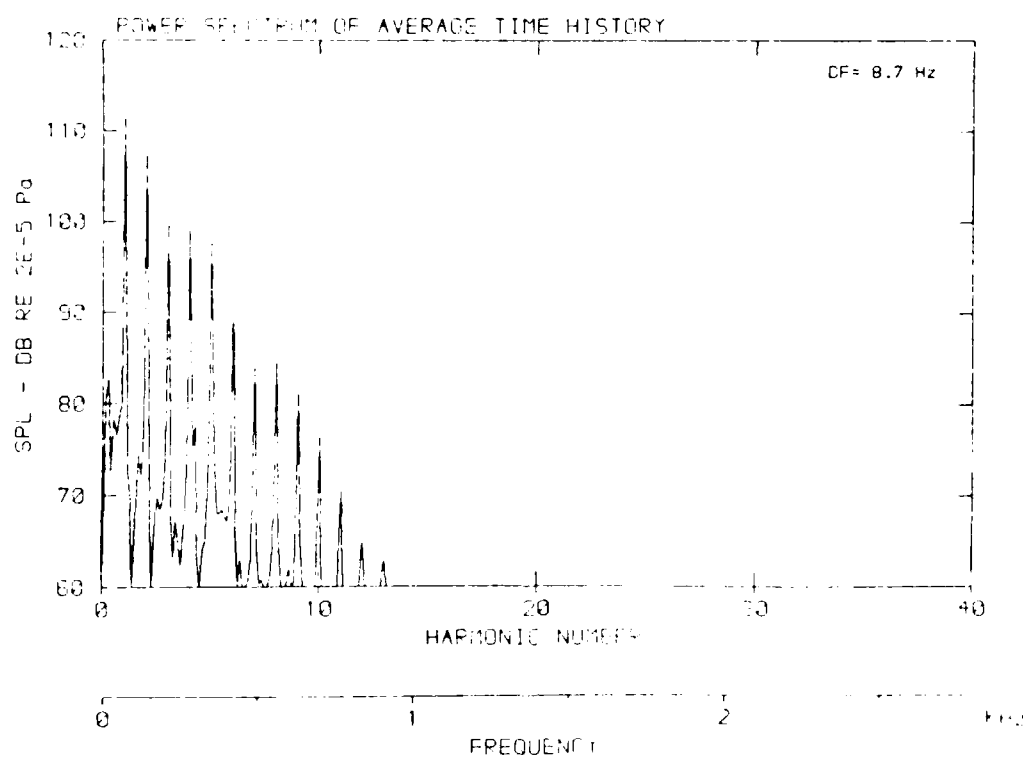
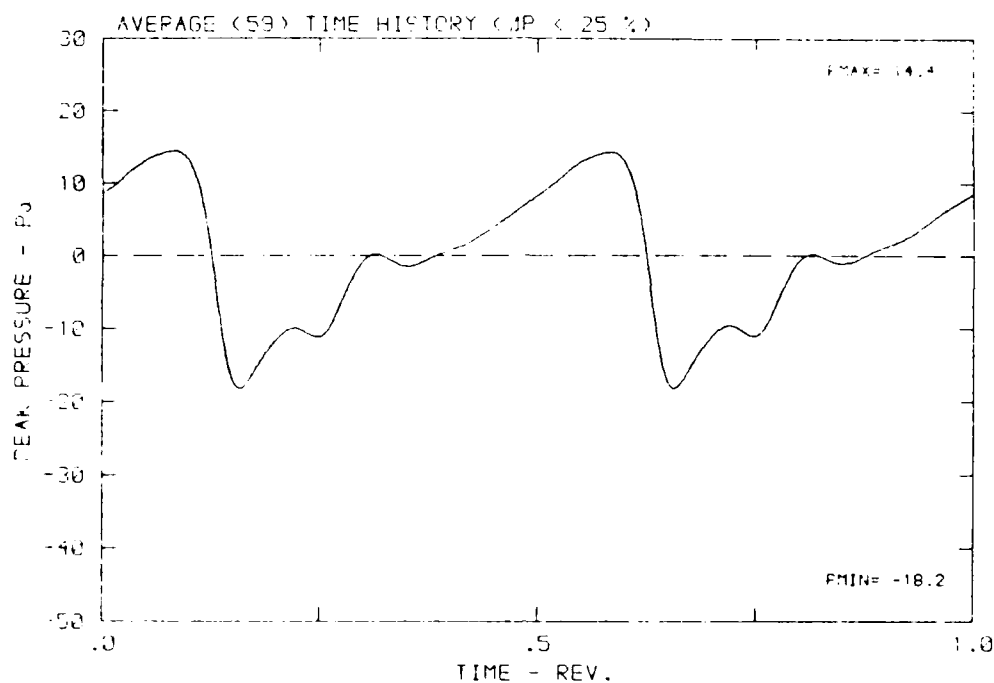
DATA POINT: BC-2 RUN: 76 MP: 5

β : 20.7° MH: .6687 n: 2100 rpm v/u : .179 ϕ : .0° T: 296.5 K



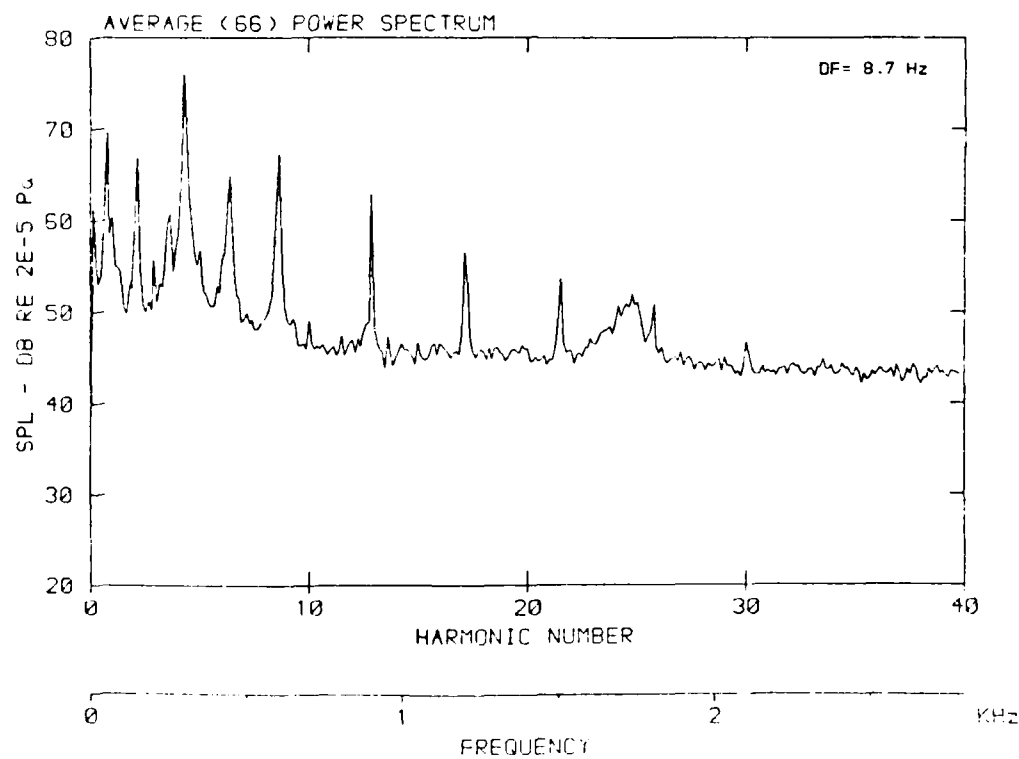
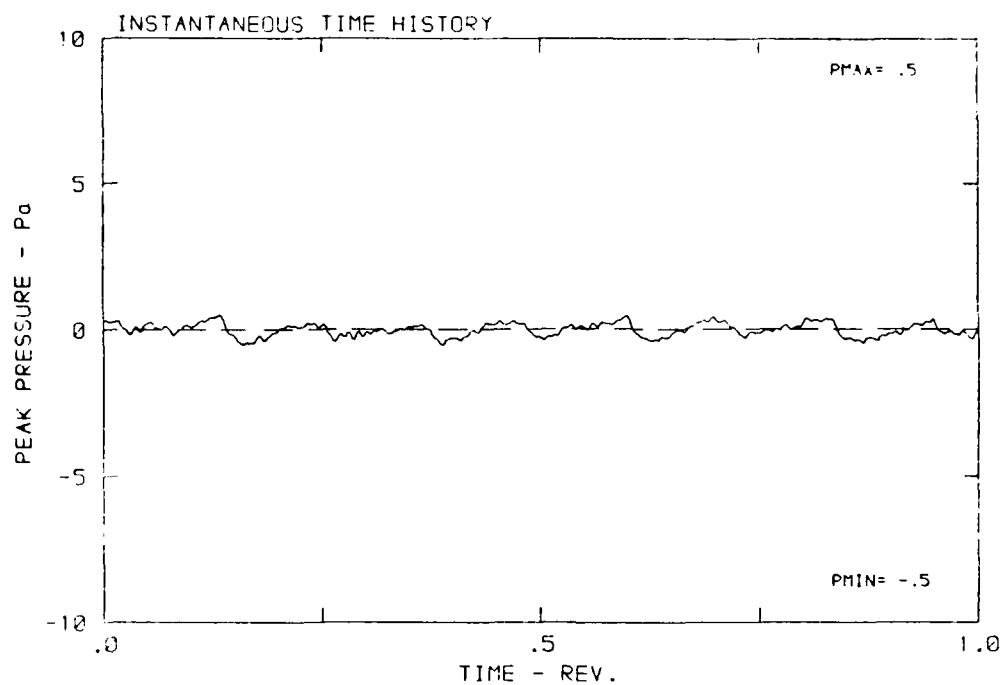
DATA POINT: BC-2 RUN: 76 MP: 5

β : 20.7° MH: .6687 n: 2100 rpm v/u : .179 ϕ : .9° T: 286.6 K



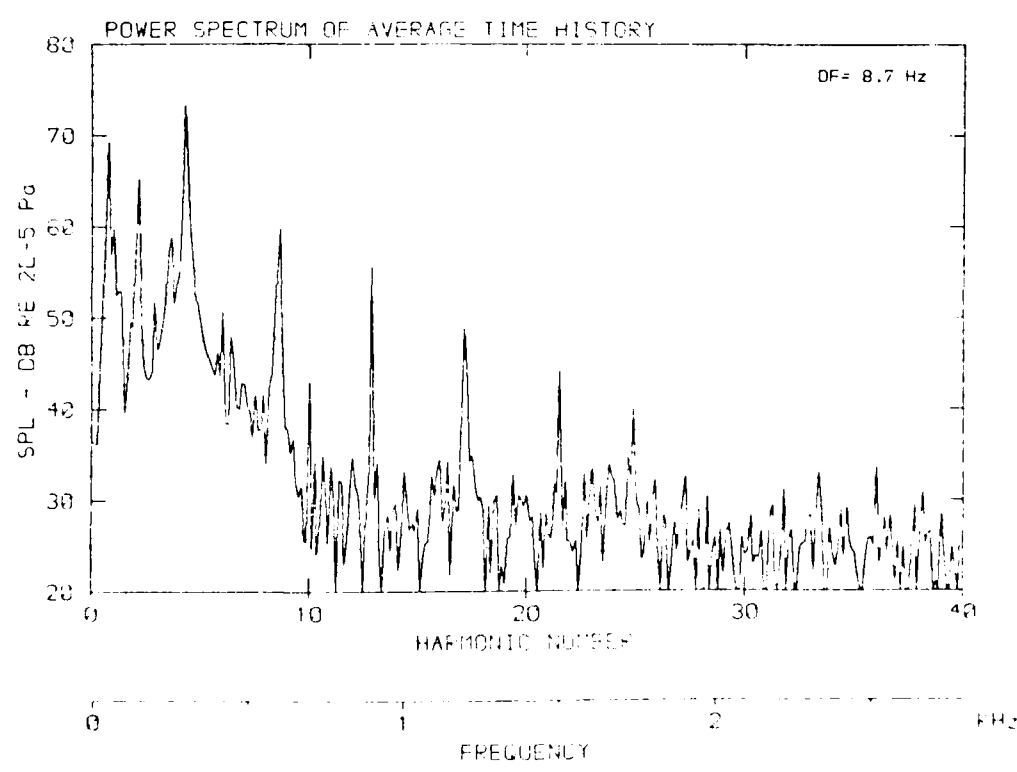
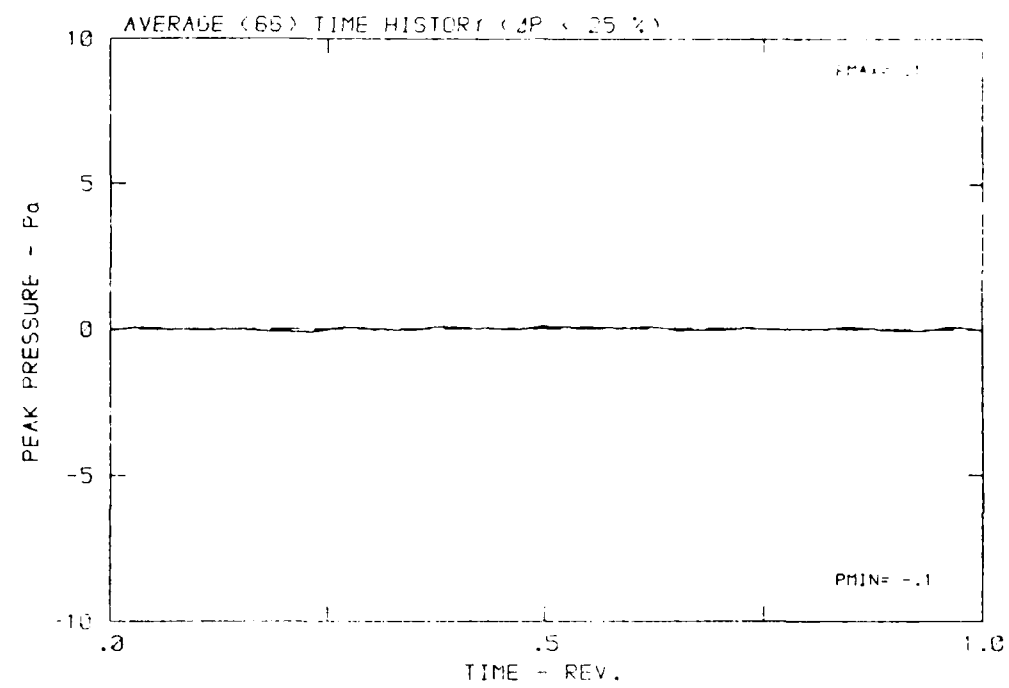
DATA POINT: BC-2 RUN: 76 MP: 6

β : 20.7° MH: .6687 n: 2100 rpm v/u : .179 ϕ : .0° T: 266.6 K



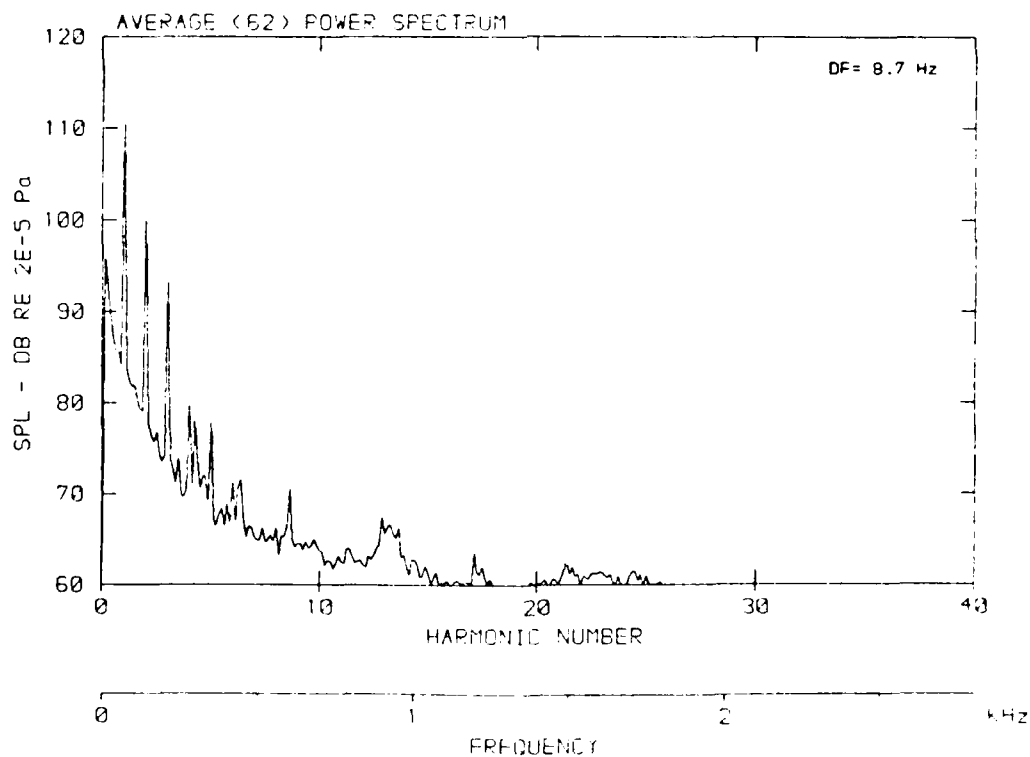
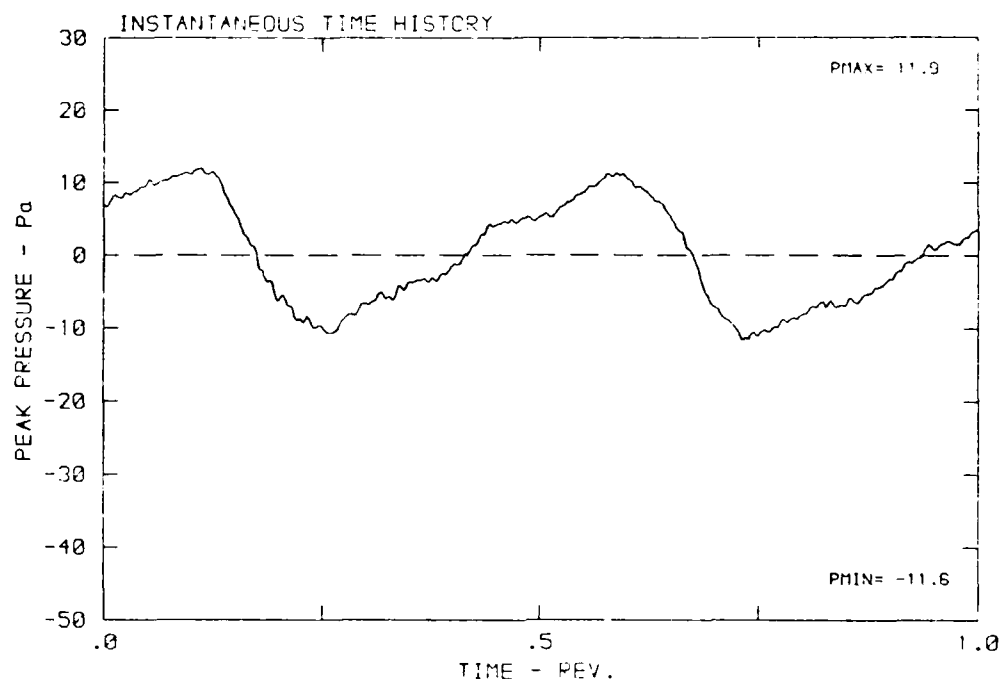
DATA POINT: BC-2 RUN: 76 MP: 6

β : 20.7° MH: .6687 n: 2100 rpm γ : .179 ϕ : .0° T: 295.6 K



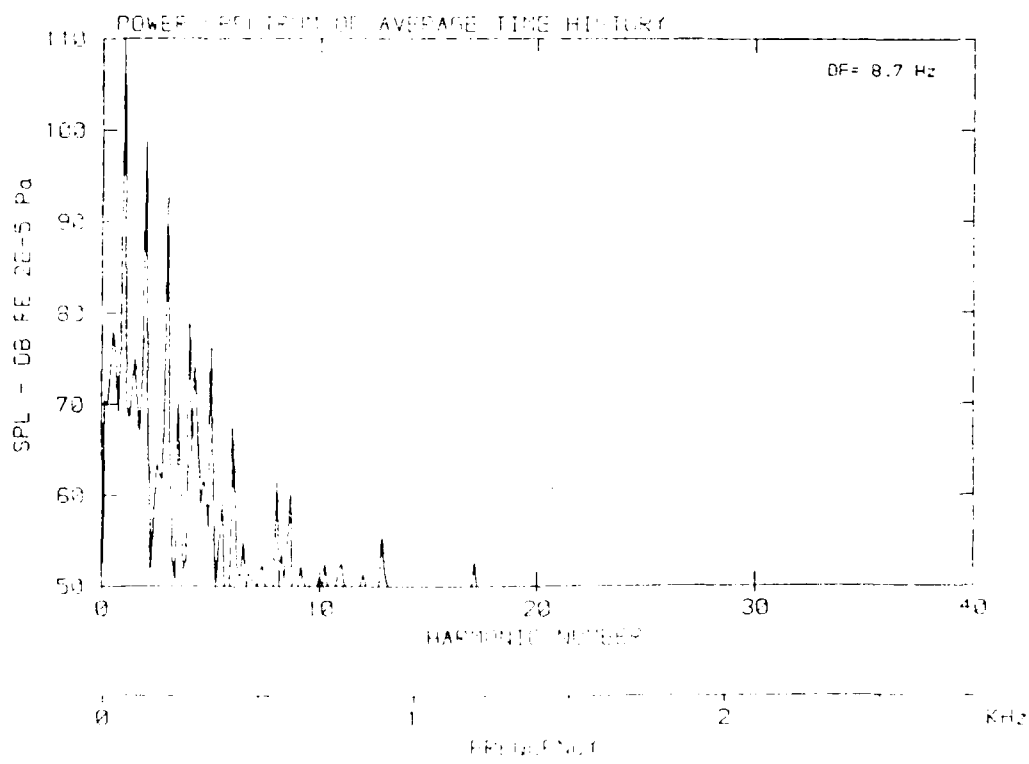
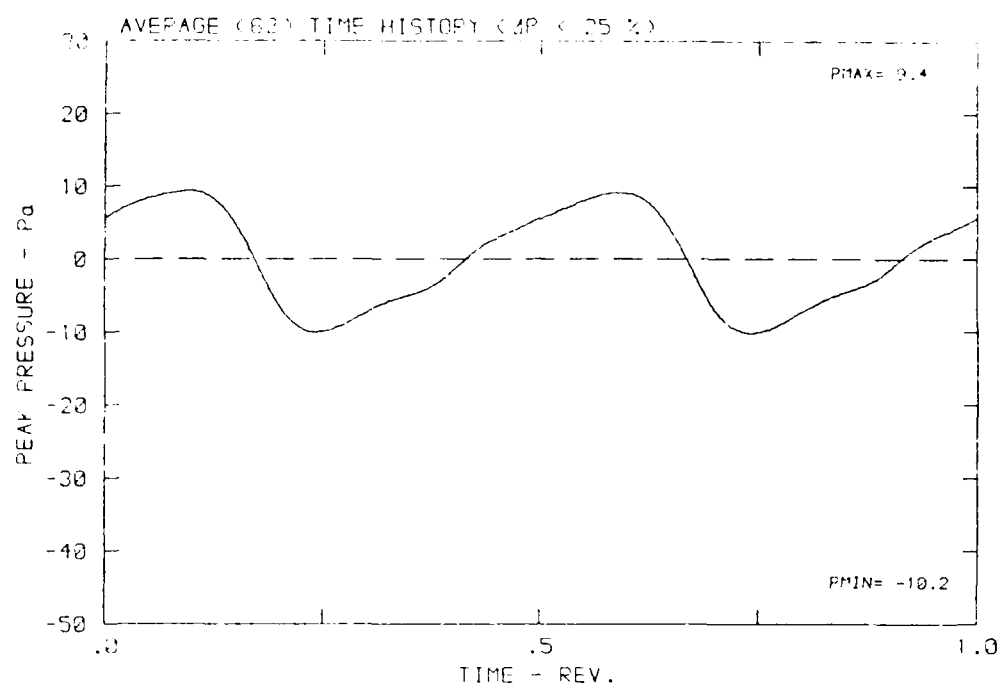
DATA POINT: BC-2 RUN: 75 MP: 7

β : 20.7° MH: .8687 n: 2100 rpm λ : .109 ϕ : .0° T : 1.28.0



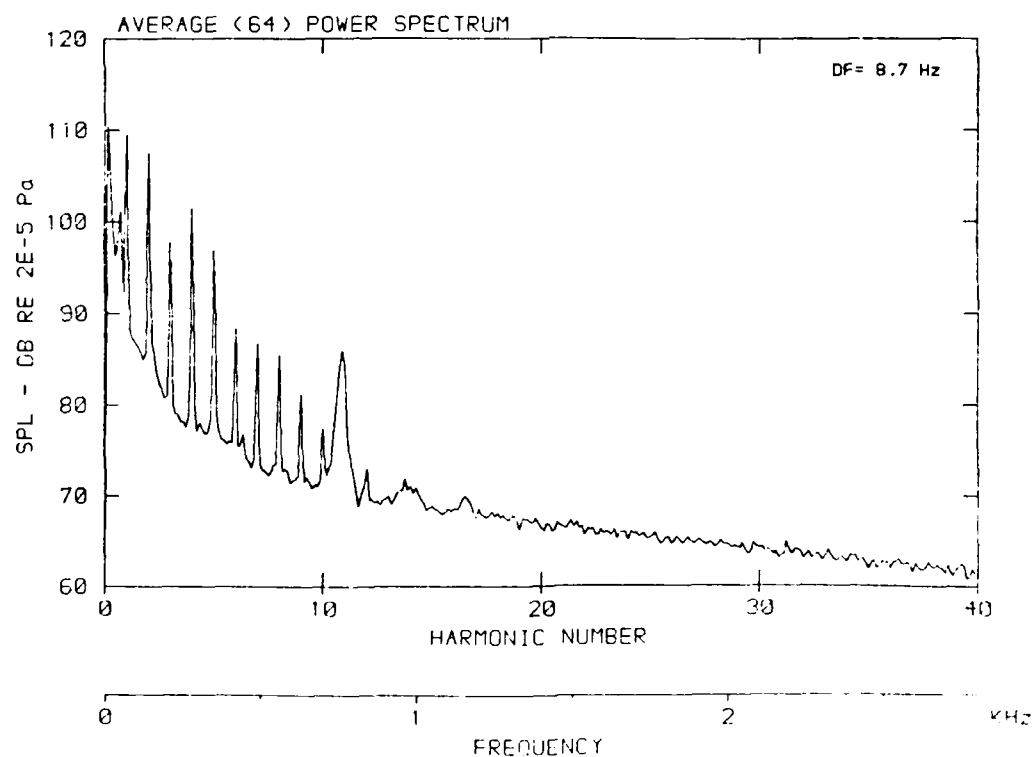
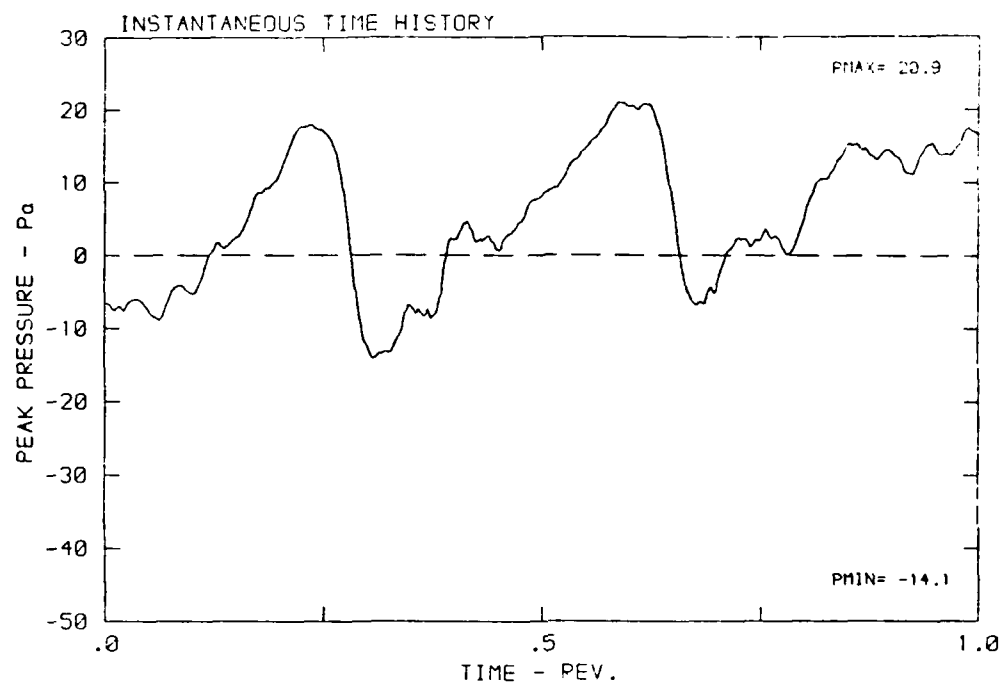
DATA POINT: BC-2 RUN: 76 MP: 7

β : 20.7° MH: .6687 n: 2100 rpm ν : .179 ϕ : .0° T: 286.6 K



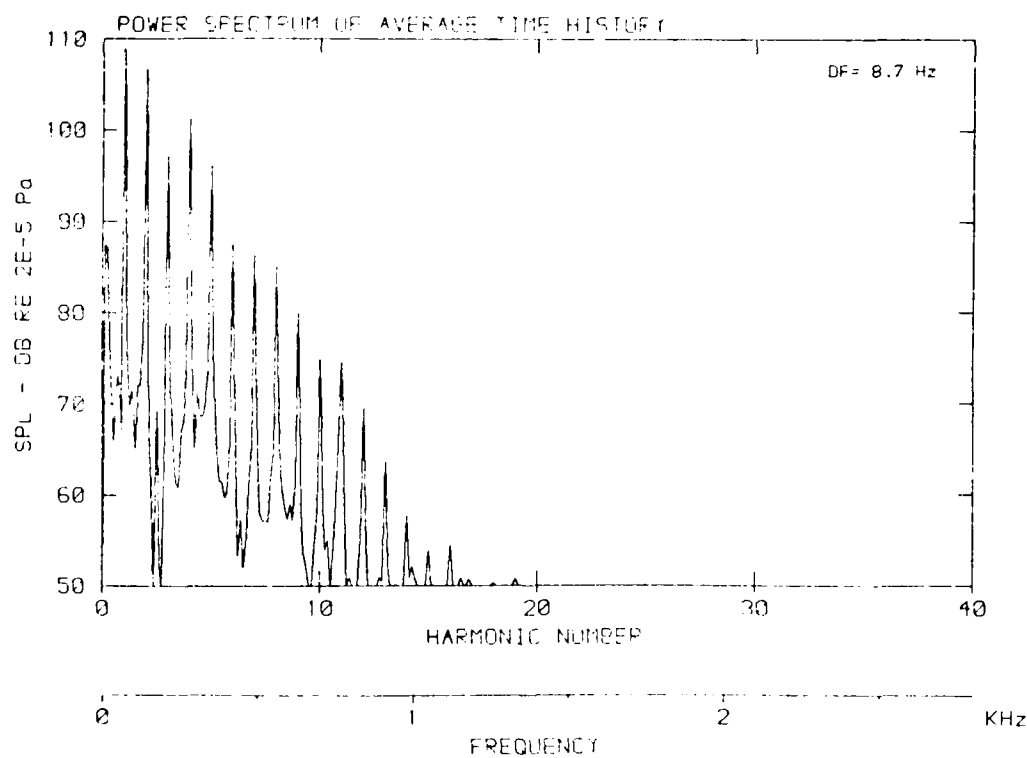
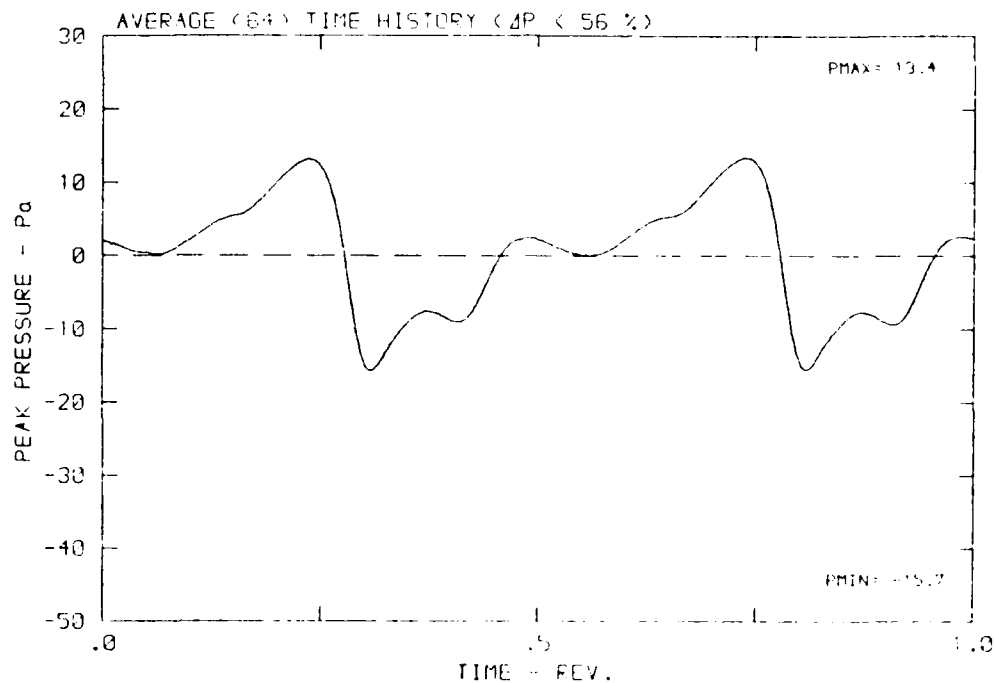
DATA POINT: BC-2 RUN: 76 MP: 9

β : 20.7° MH: .6587 n: 2100 rpm ν : .179 ρ : .02 T: 295.6 K



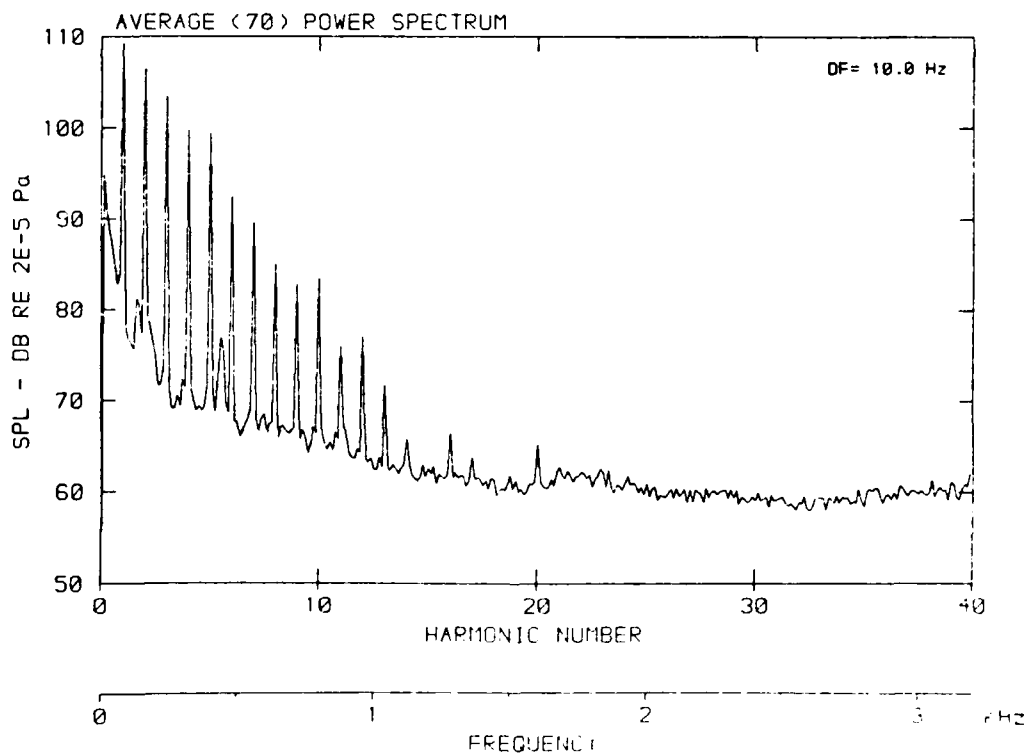
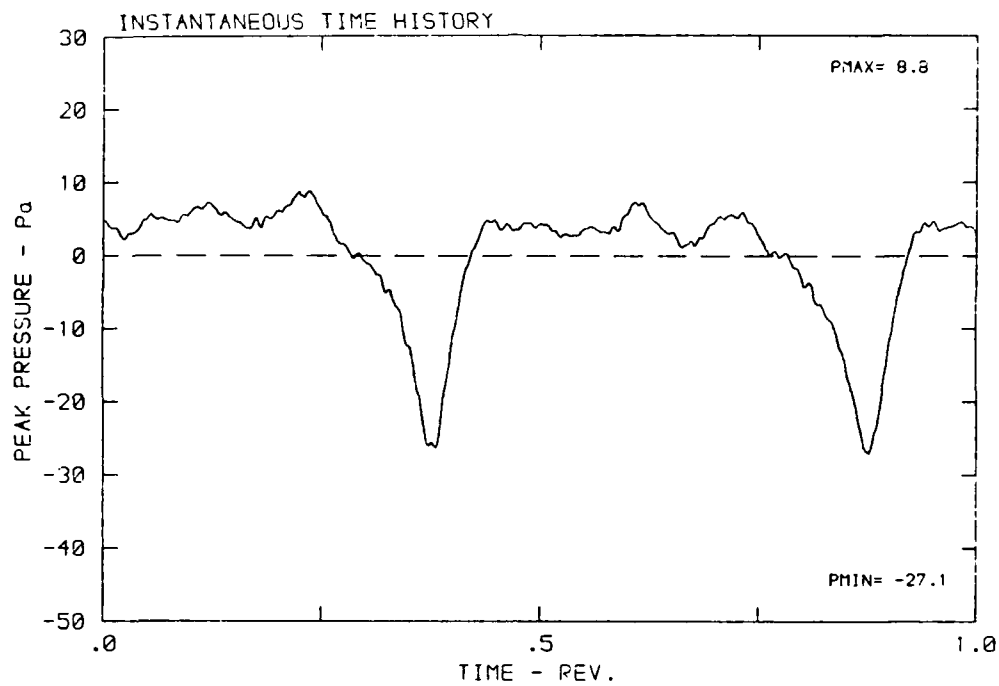
DATA POINT: BC-2 RUN: 76 MP: 9

β : 20.7° MH: .6687 n: 2100 rpm v/u : .179 ϕ : .0° T: 295.6 K



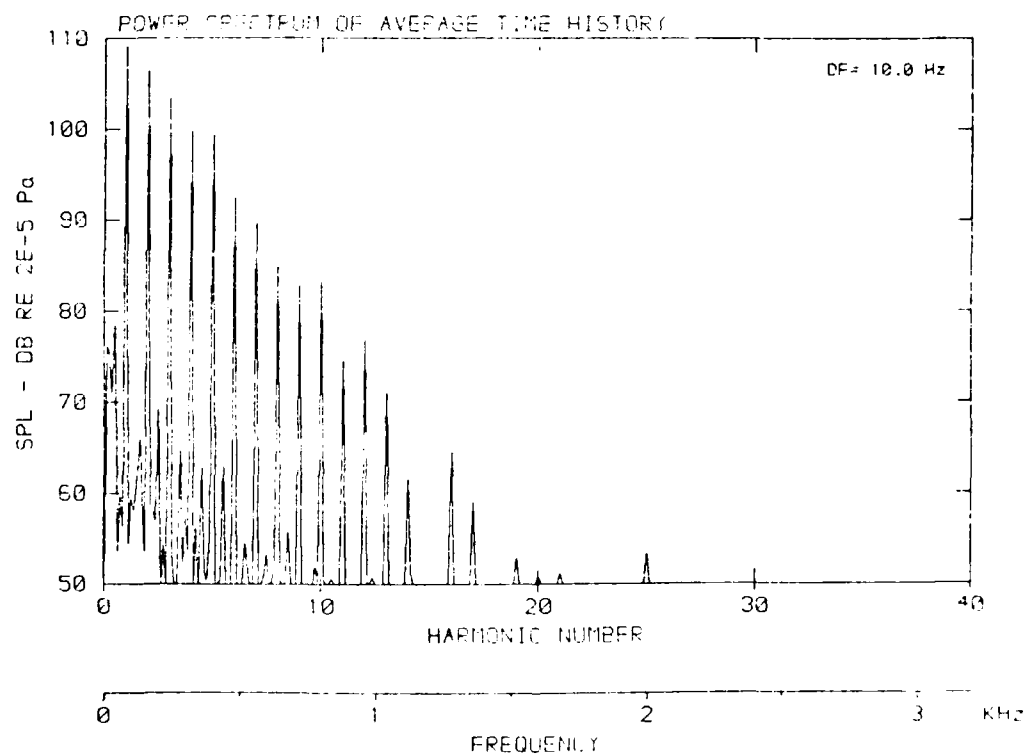
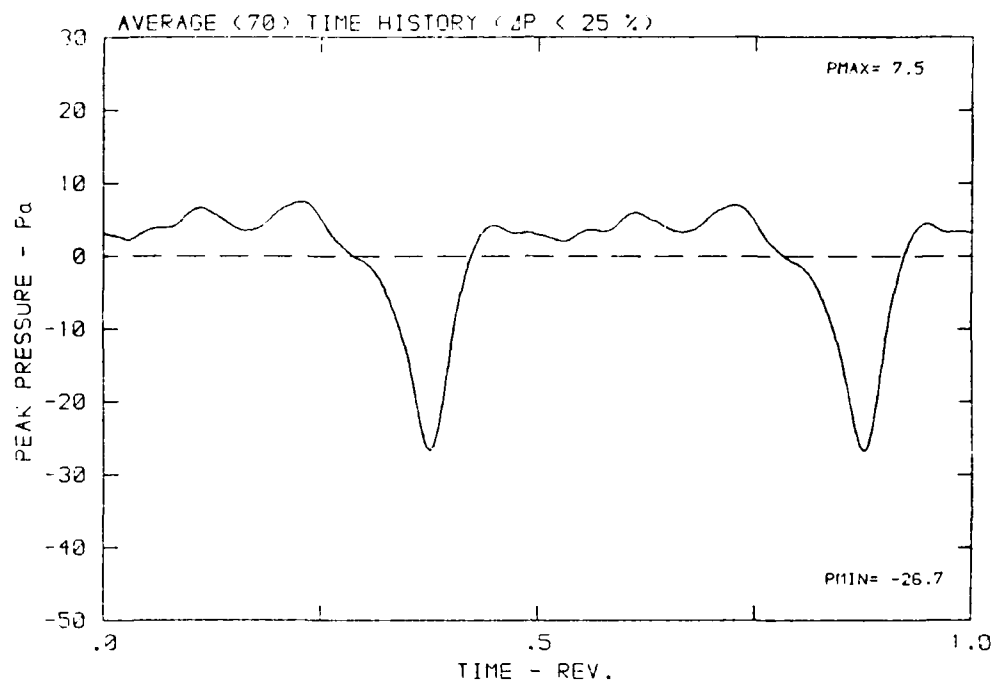
DATA POINT: BC-3 RUN: 75 MP: 1

β : 20.7° MH: .7644 n: 2400 rpm v/u : .180 ϕ : .0° T: 285.6 K



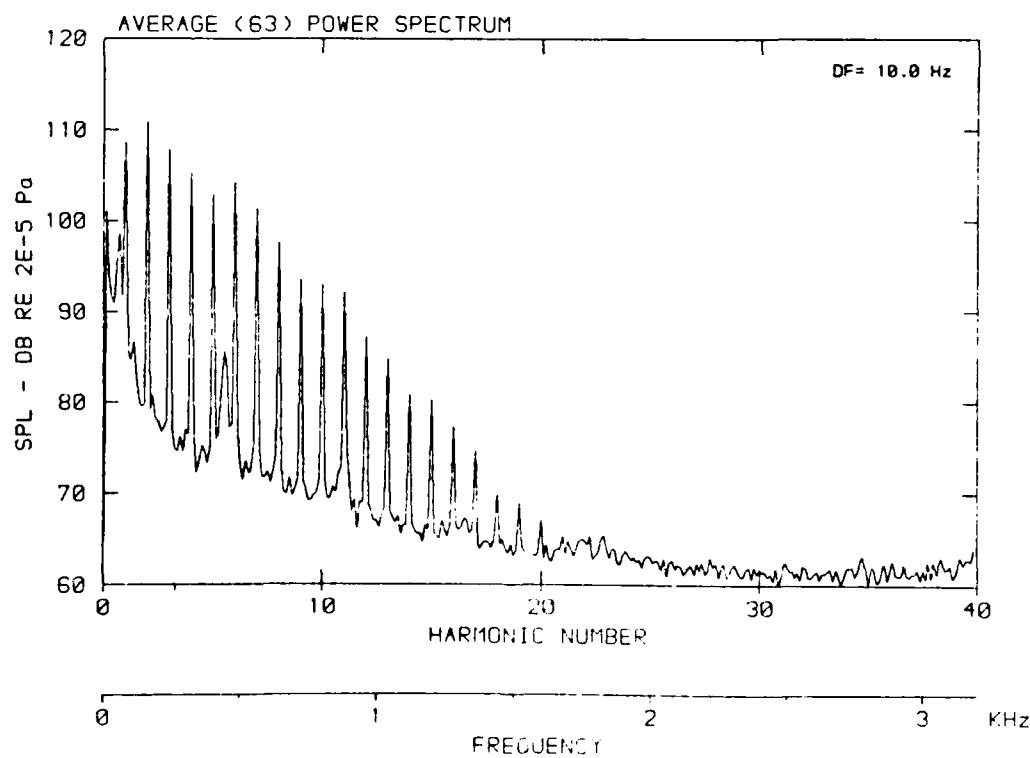
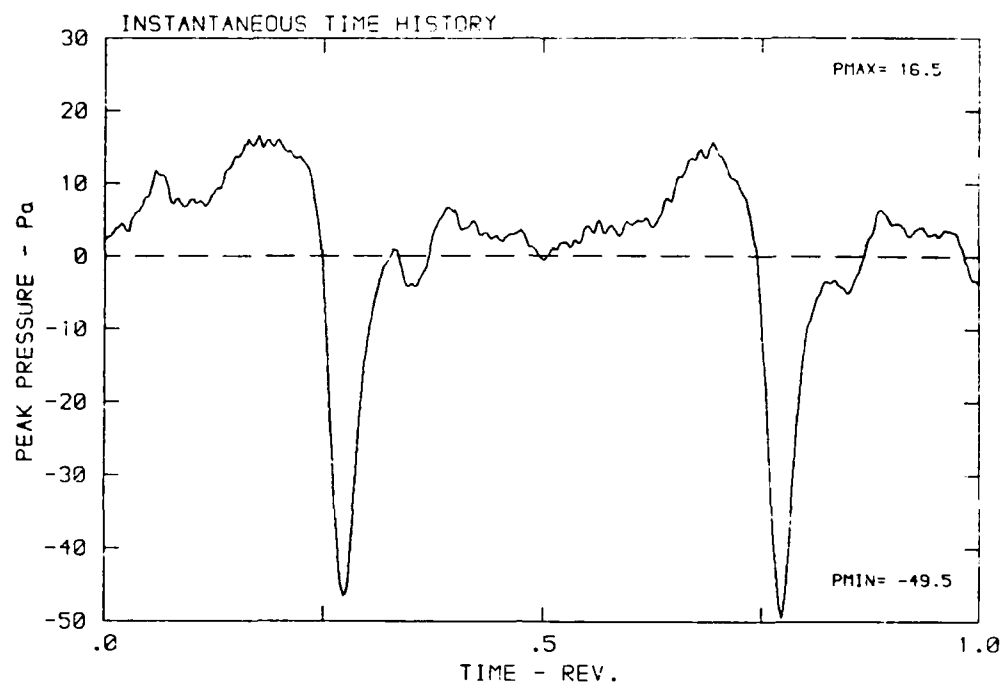
DATA POINT: BC-3 RUN: 75 MP: 1

β : 20.7° MH: .7644 n: 2400 rpm v/u : .180 ϕ : .0° T: 286.6 K



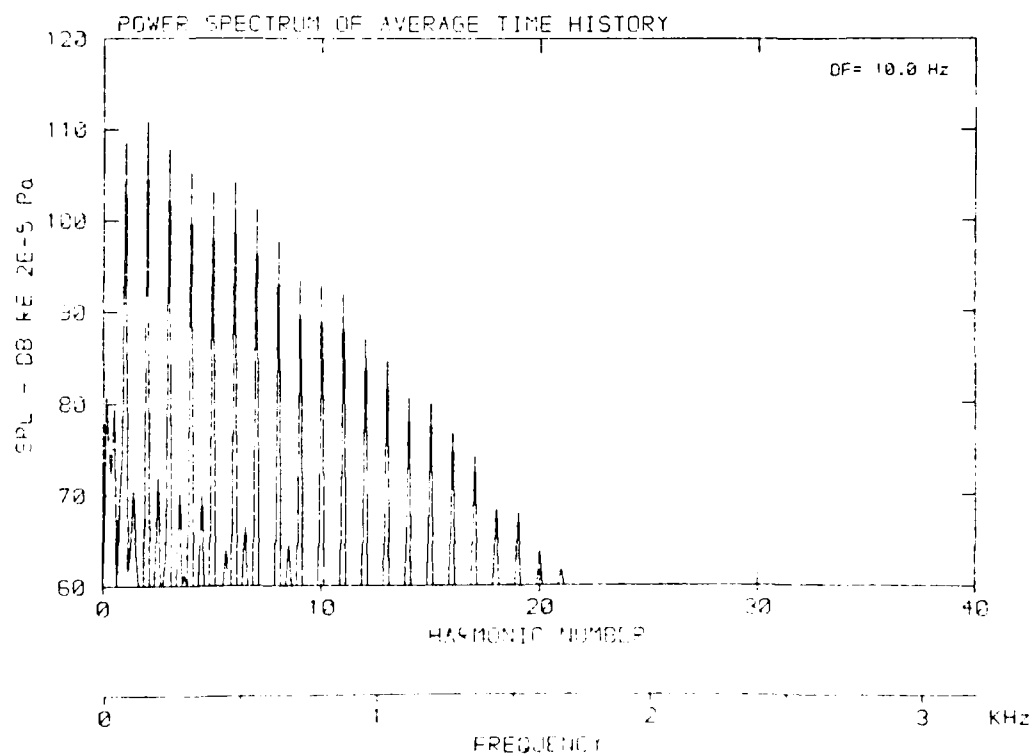
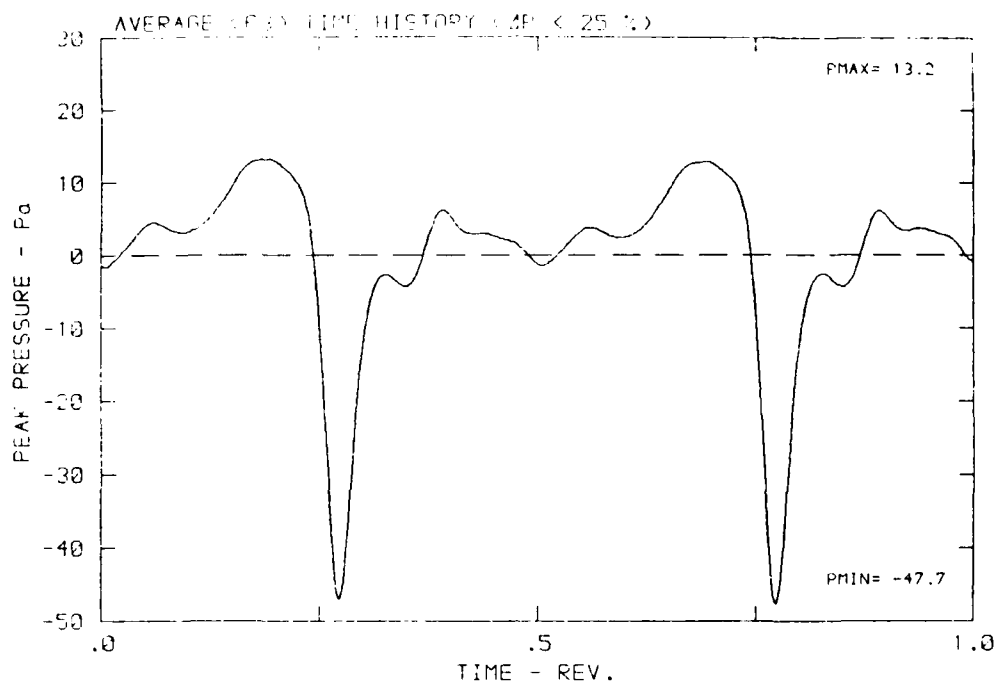
DATA POINT: BC-3 RUN: 75 MP: 2

β : 20.7° MH: .7644 n: 2400 rpm μ : .150 ψ : .0° T: 216.6 r



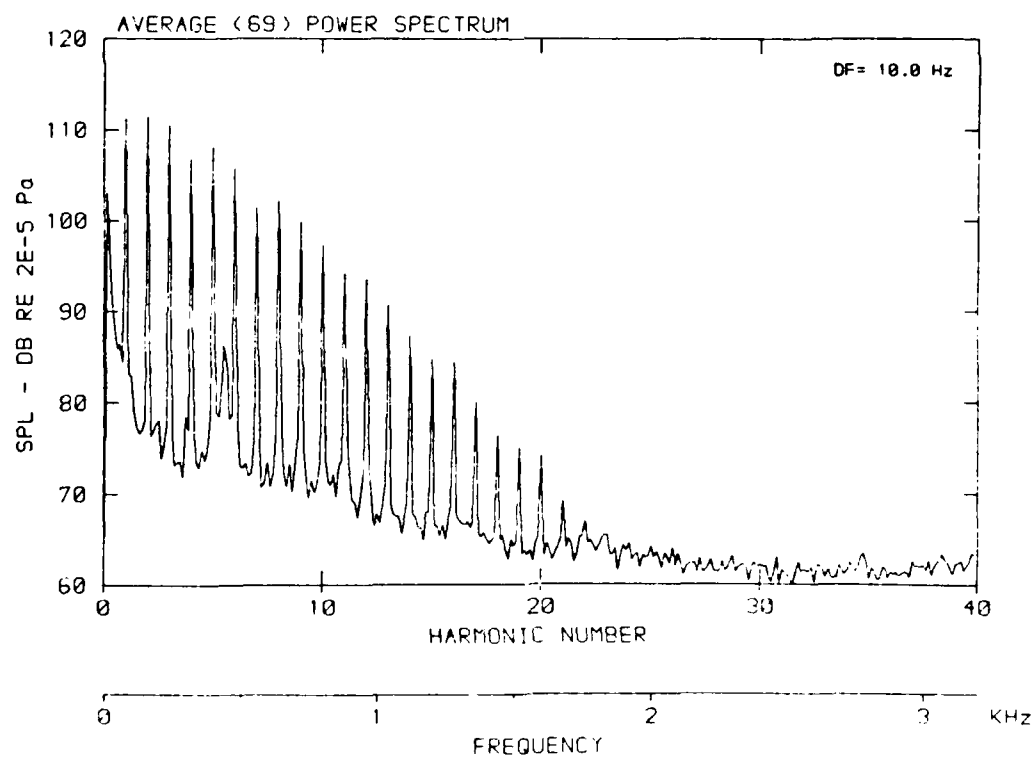
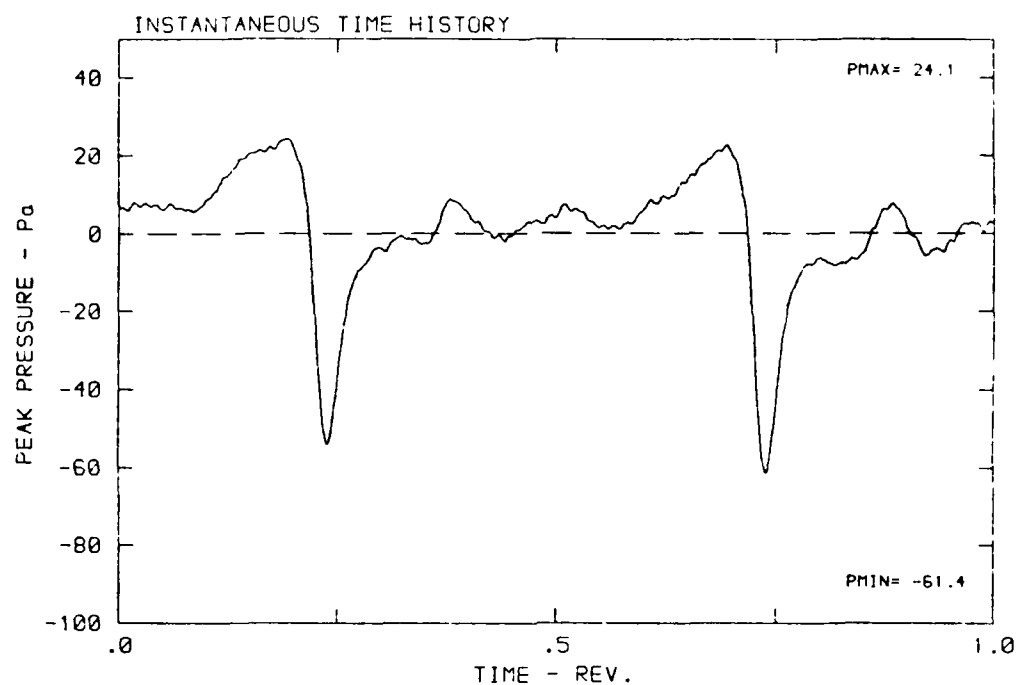
DATA POINT: BC-3 RUN: 75 MP: 2

β : 20.7° MH: .7644 n: 2400 rpm v/u: .180 ϕ : .0° T: 235.9 K



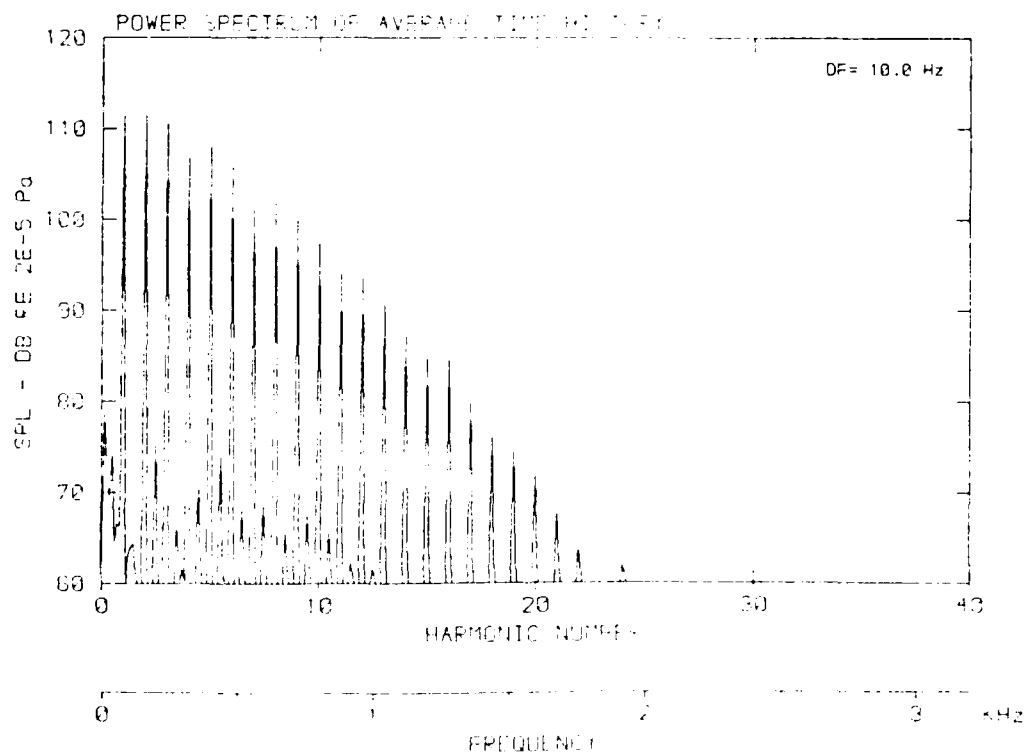
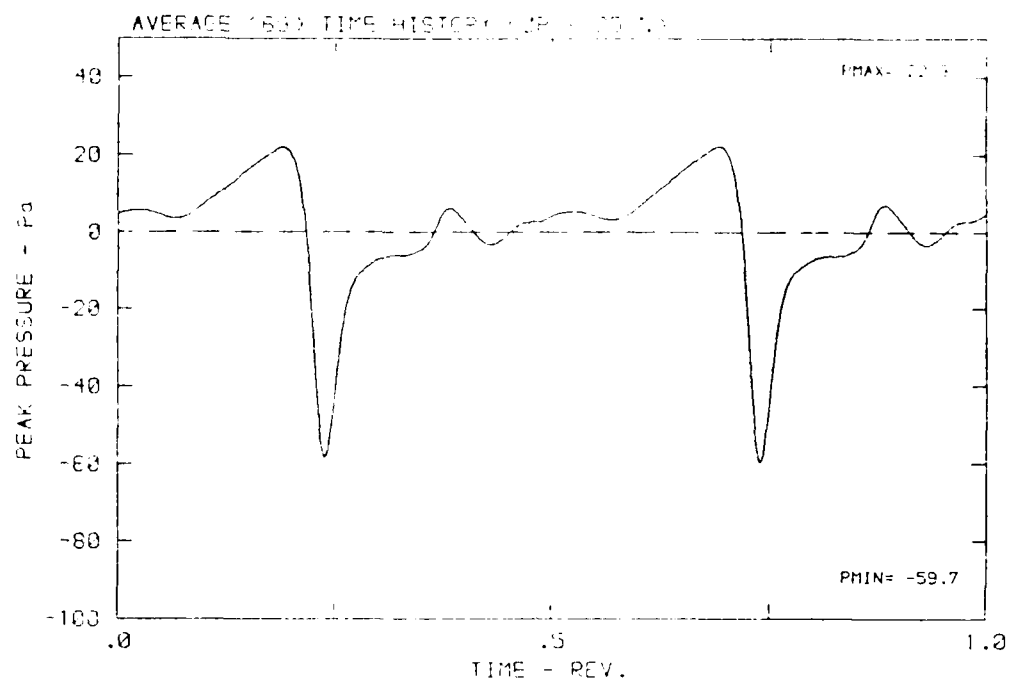
DATA POINT: BC-3 RUN: 75 MP: 3

β : 20.7° MH: .7644 n: 2400 rpm v/u : .180 ϕ : .0° T: 266.5



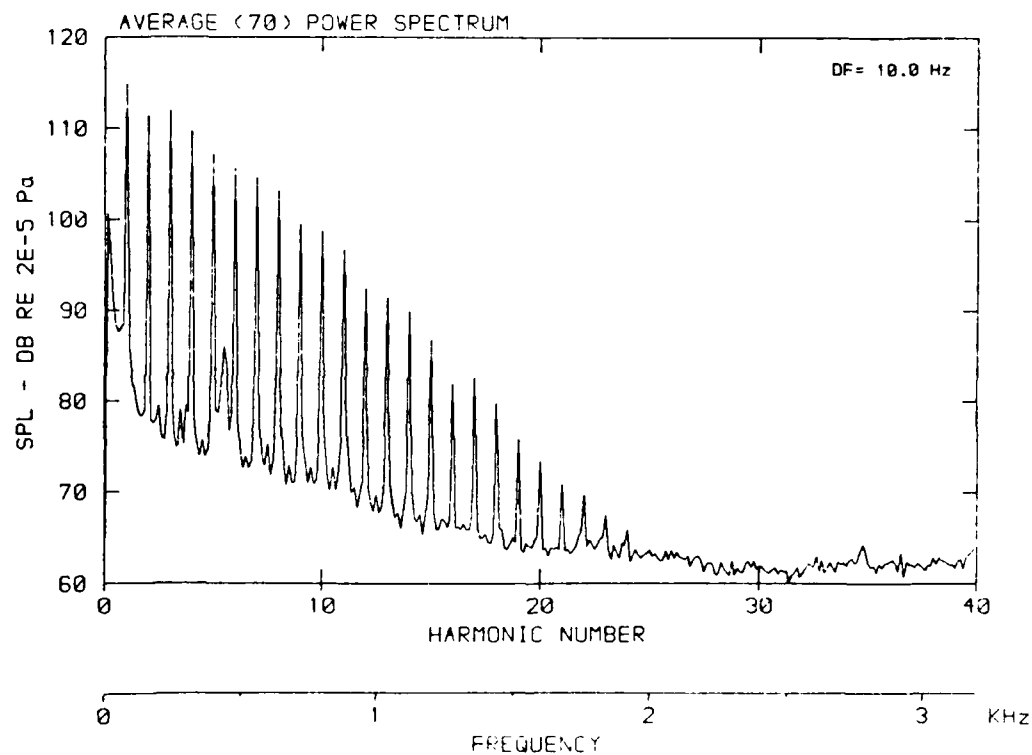
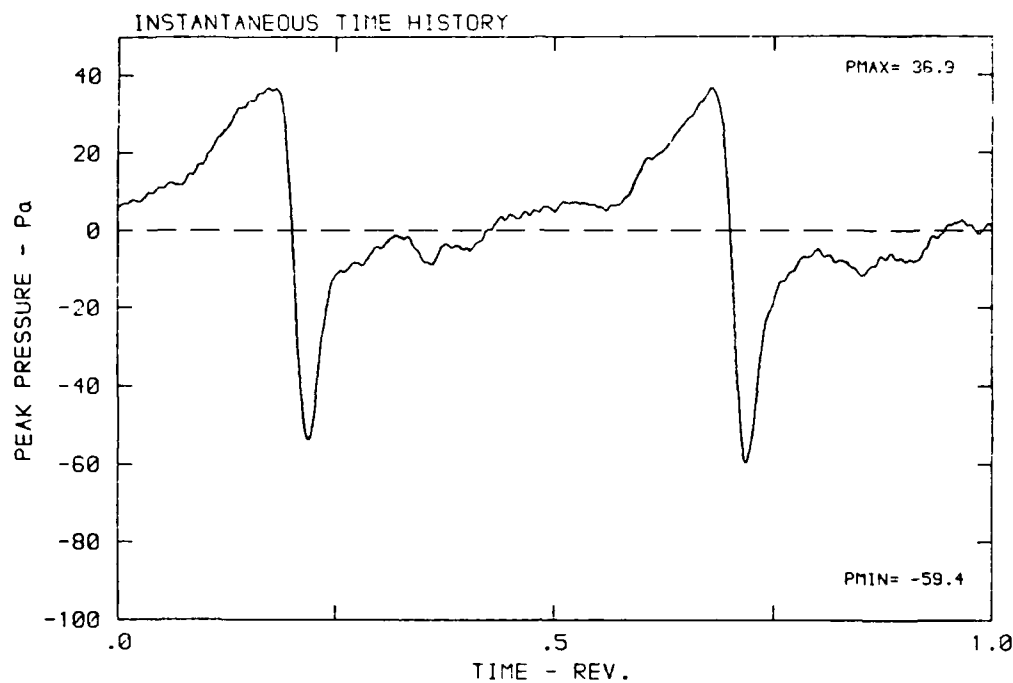
DATA POINT: BC-3 RUN: 75 MP: 3

β : 20.7° MH: .7644 n: 2400 rpm ω : 400.150 ϕ : .0° r : 255.5 K



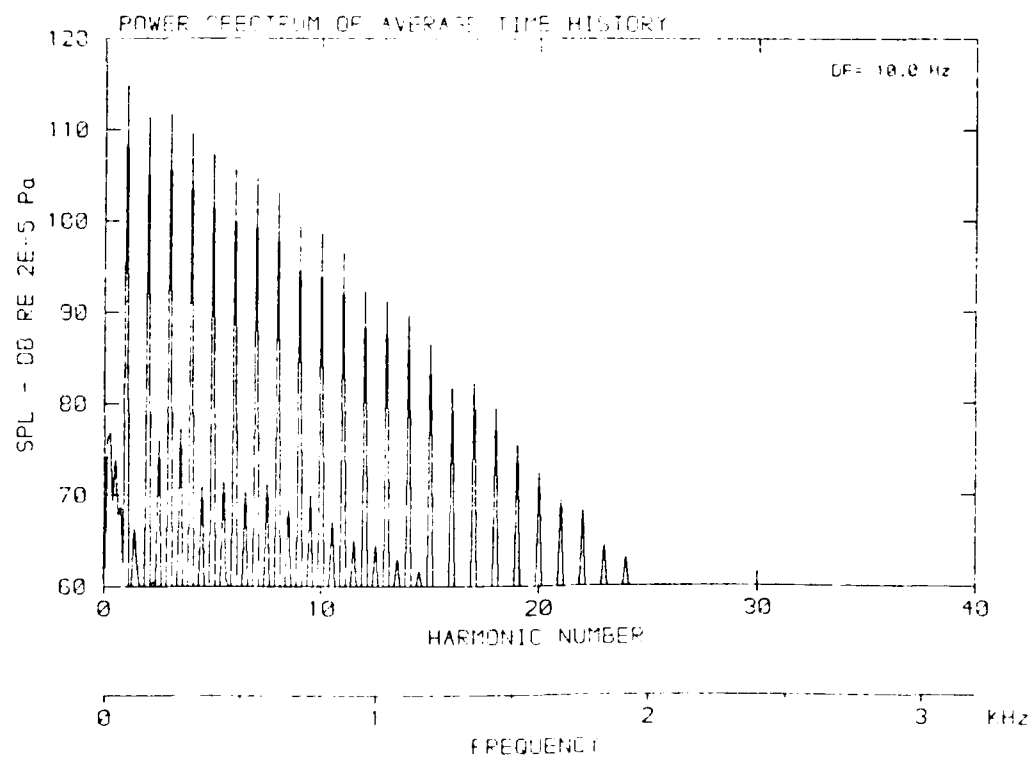
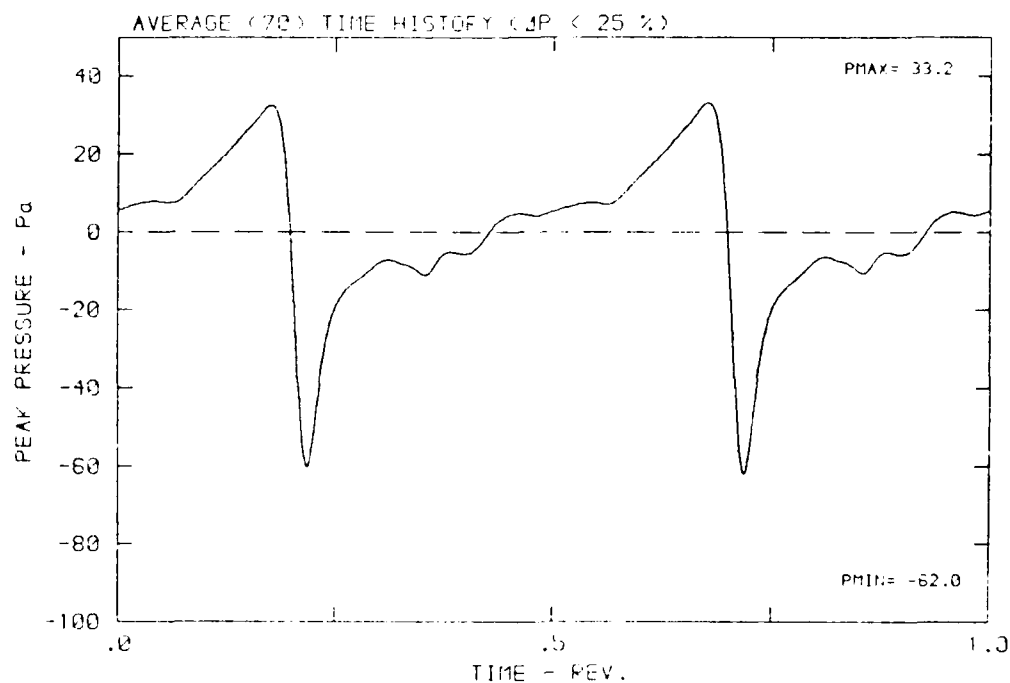
DATA POINT: BC-3 RUN: 75 MP: 4

β : 20.7° MH: .7644 n: 2400 rpm v/u : .180 ϕ : .0° T: 296.6 K



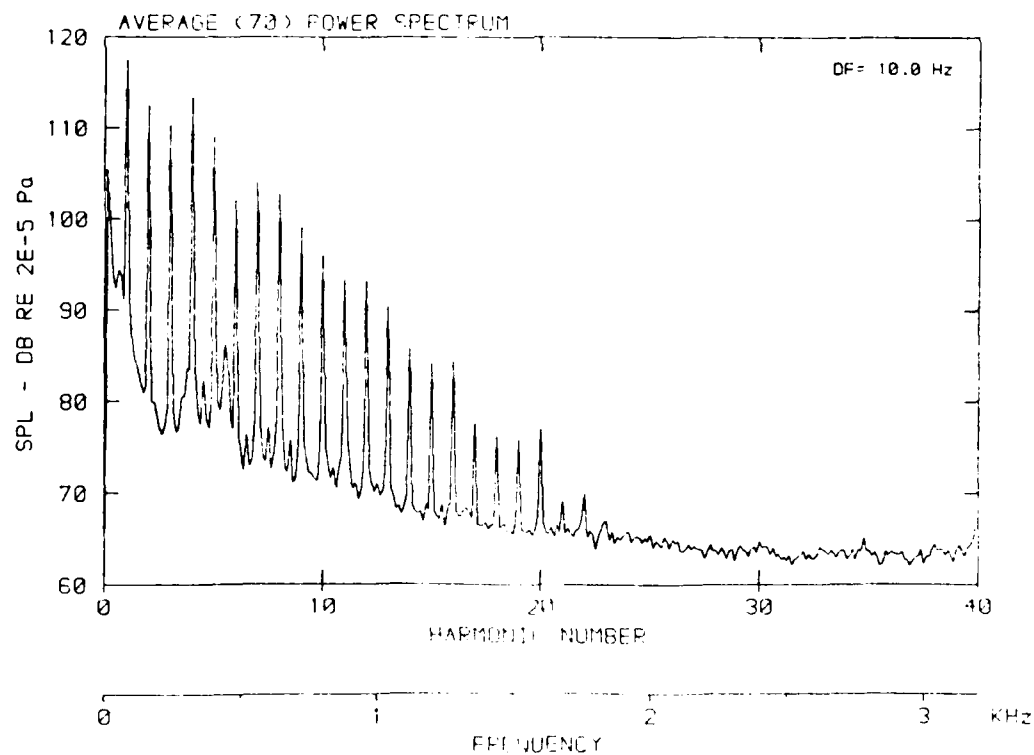
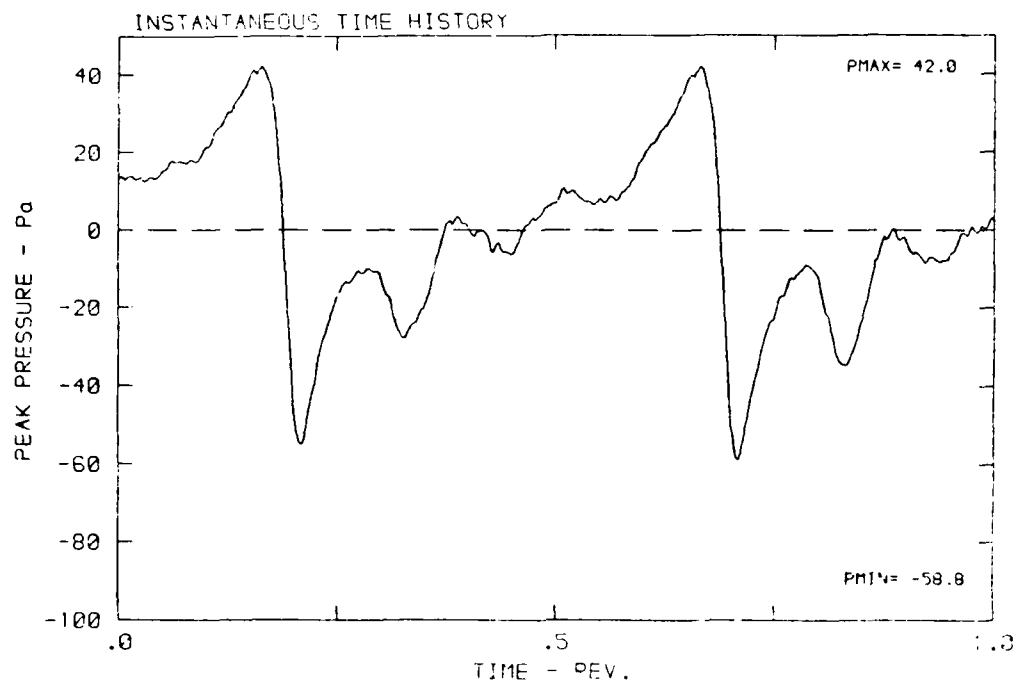
DATA POINT: BC-3 RUN: 75 MP: 4

β : 20.7° MH: .7644 n: 2400 rpm ν/α : .180 ϕ : .0° T: 286.6 K

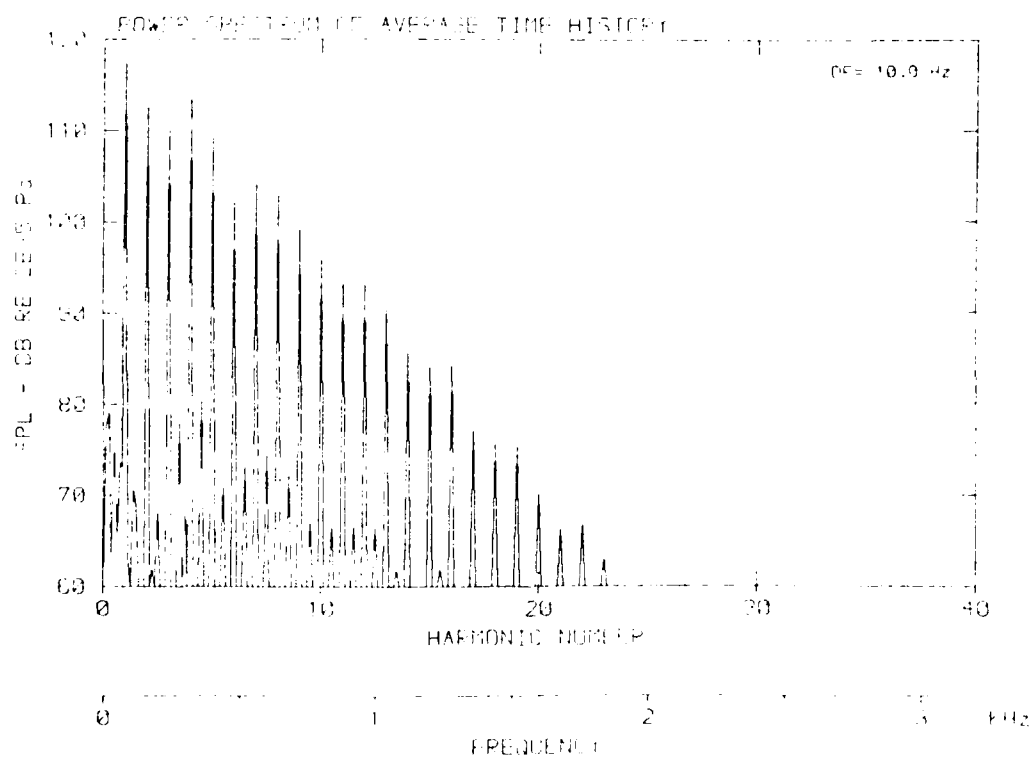
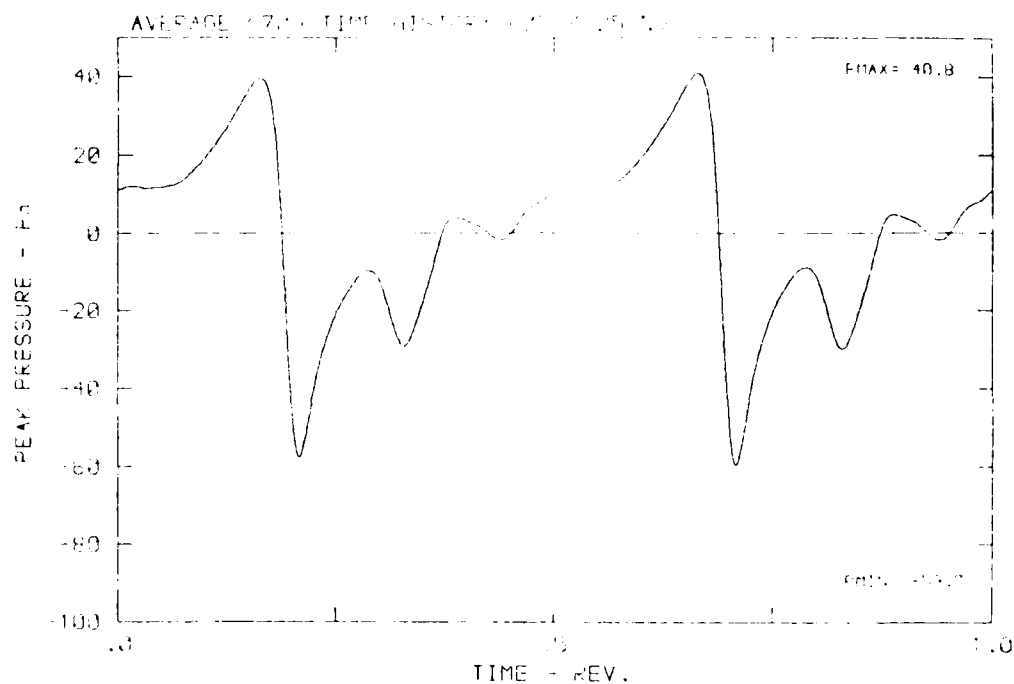


DATA POINT: BC-3 RUN: 75 MP: 5

β : 20.7° MH: .7644 n: 2400 rpm v/u : .180 ϕ : .0° T: 266.5 K

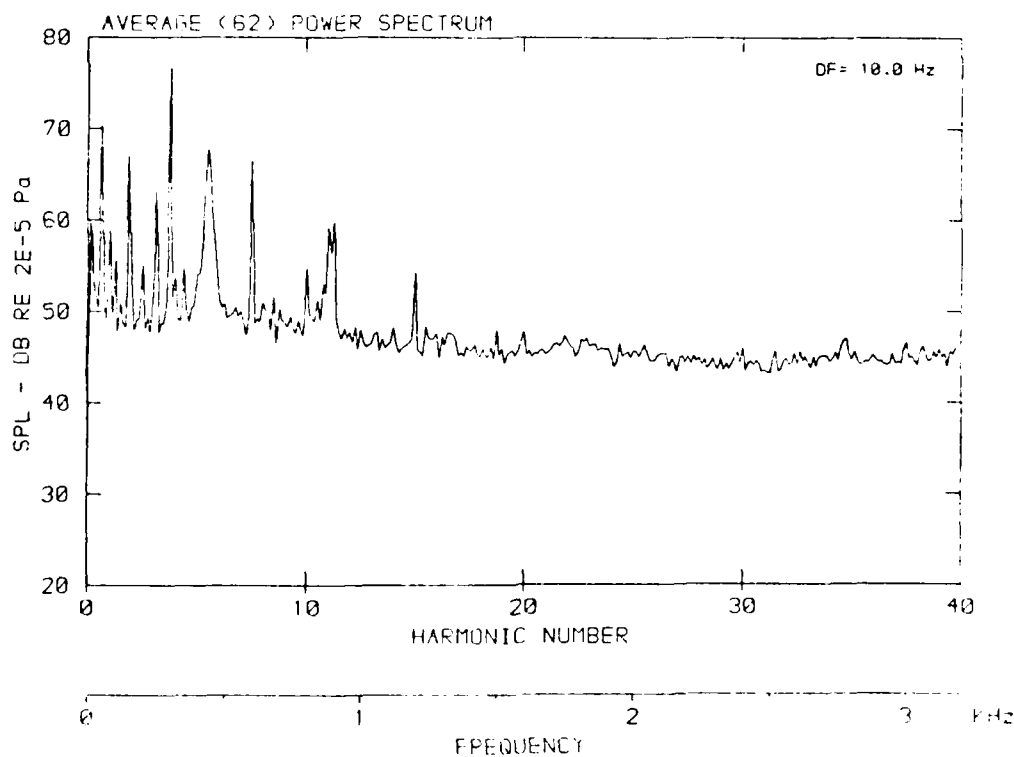
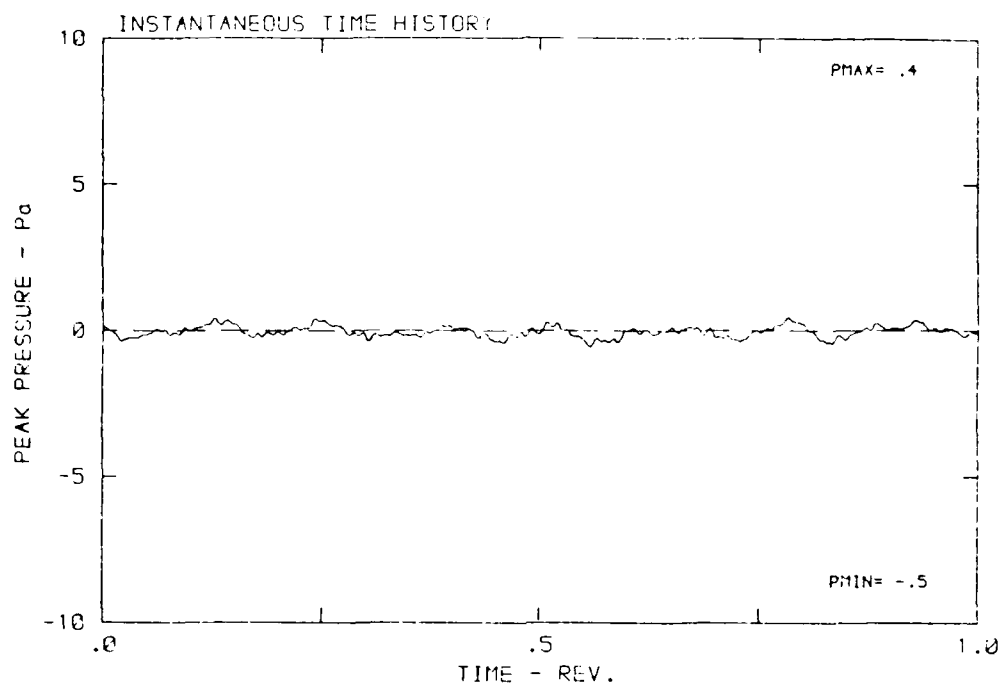


β : 20.7° NH: .0644 n: 2400 rpm v/a: .180 ϕ : .0° T: 285.6 K



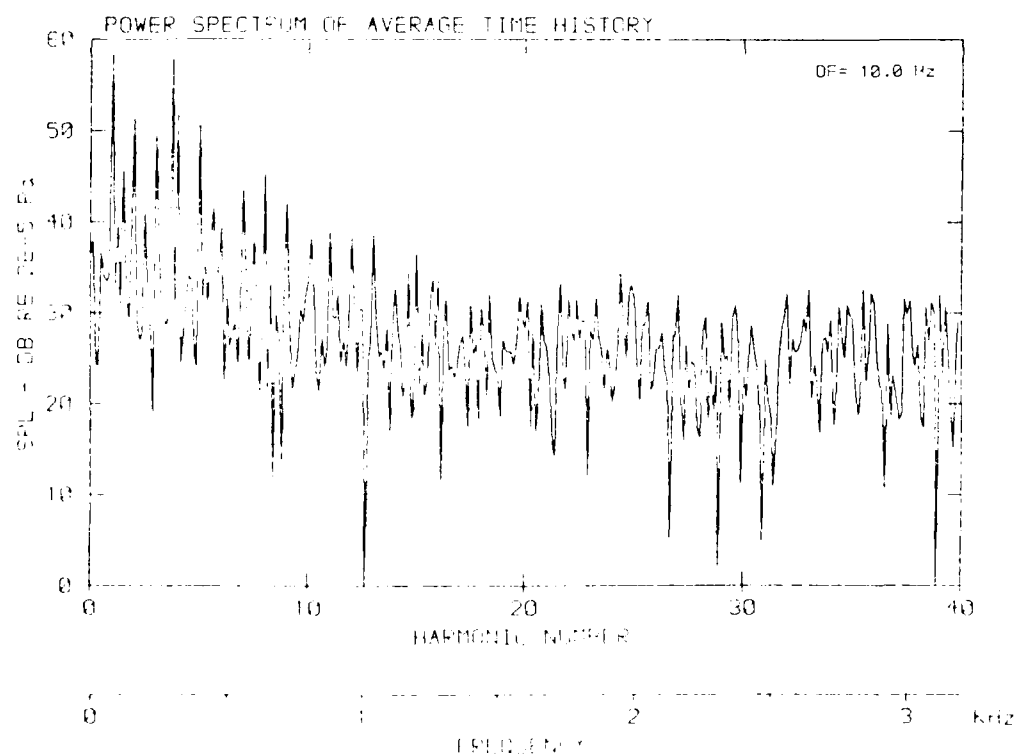
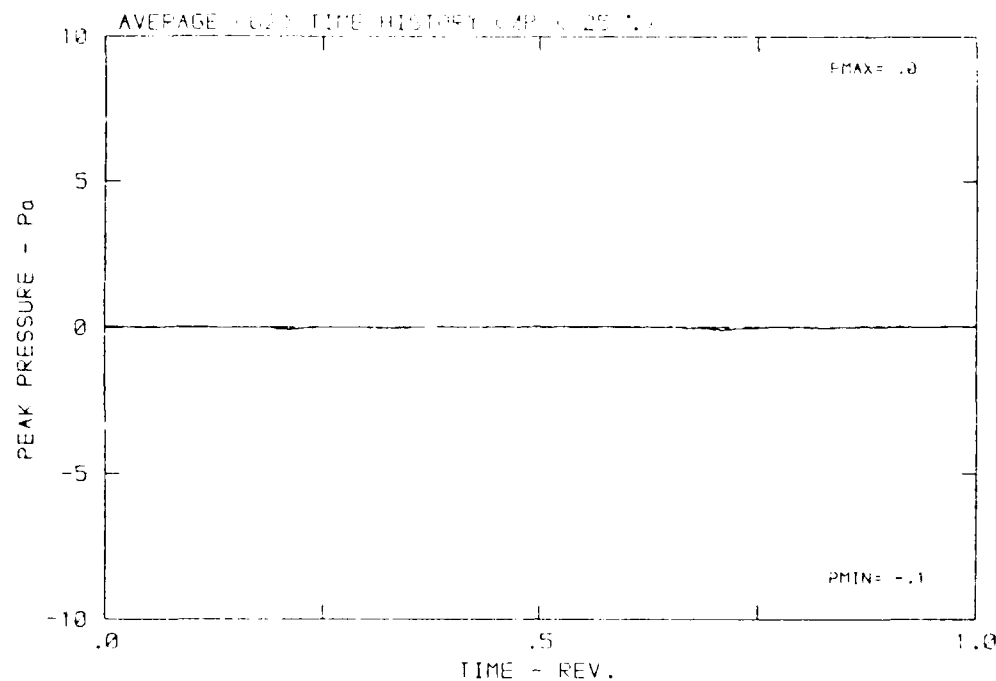
DATA POINT: BC-3 RUN: 75 MP: 6

β : 20.7° MH: .7644 n: 2400 rpm ν : .180 ϕ : .0° T: 5.5



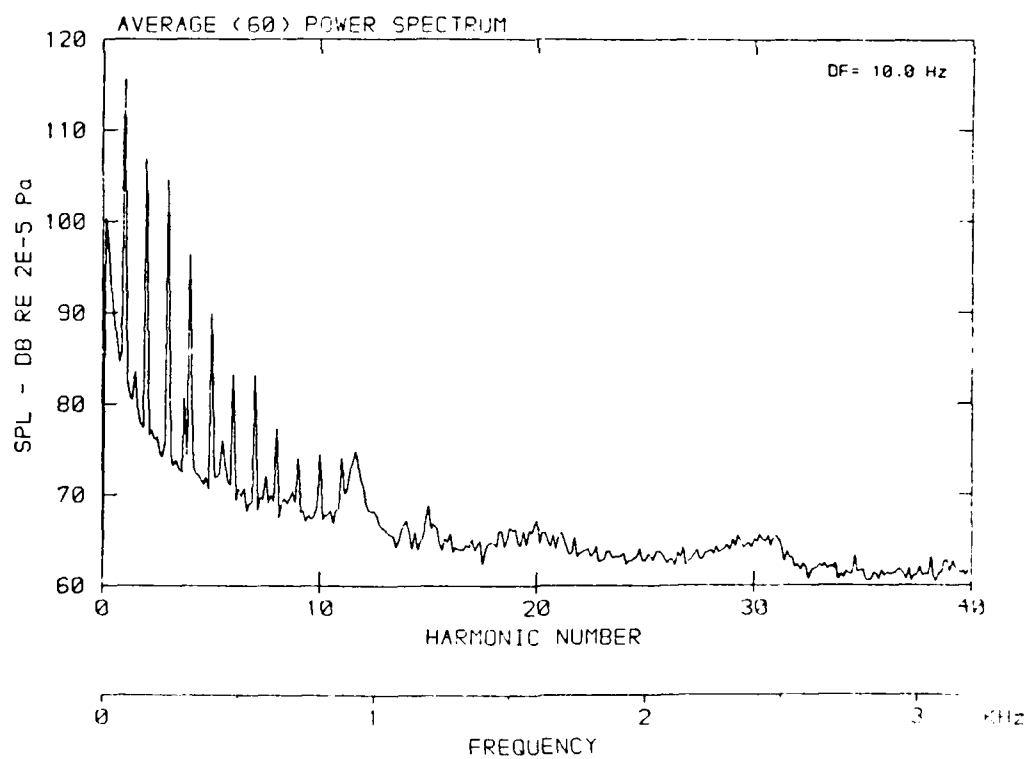
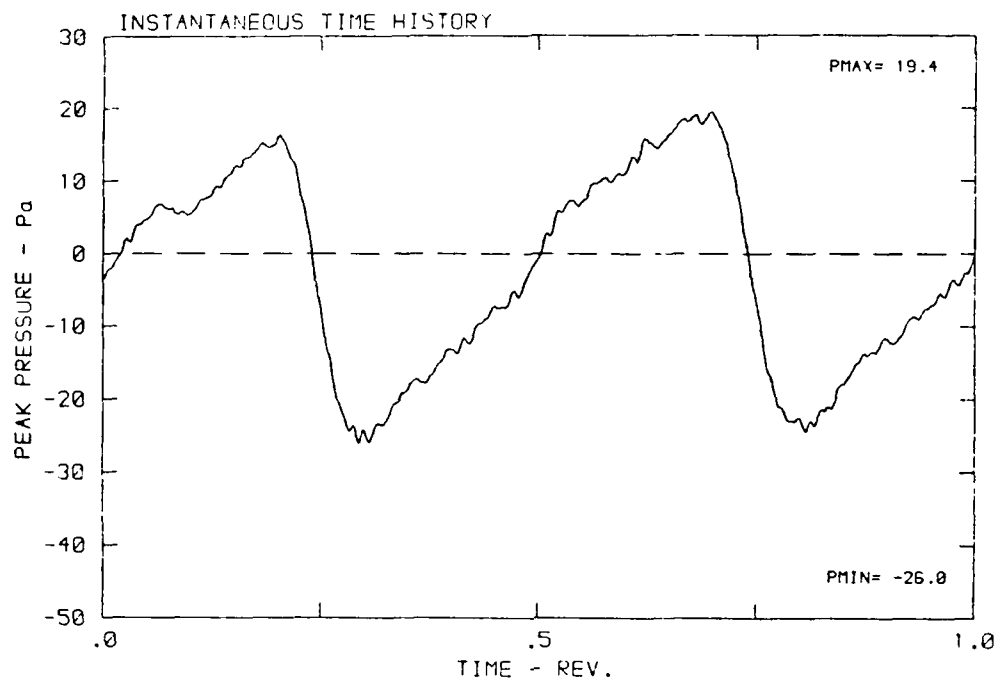
DATA POINT: BC-3 RUN: 75 MP: 6

β : 20.7° MH: .7644 n: 2400 rpm ω : .180 ϕ : .0° T: 286.6 K



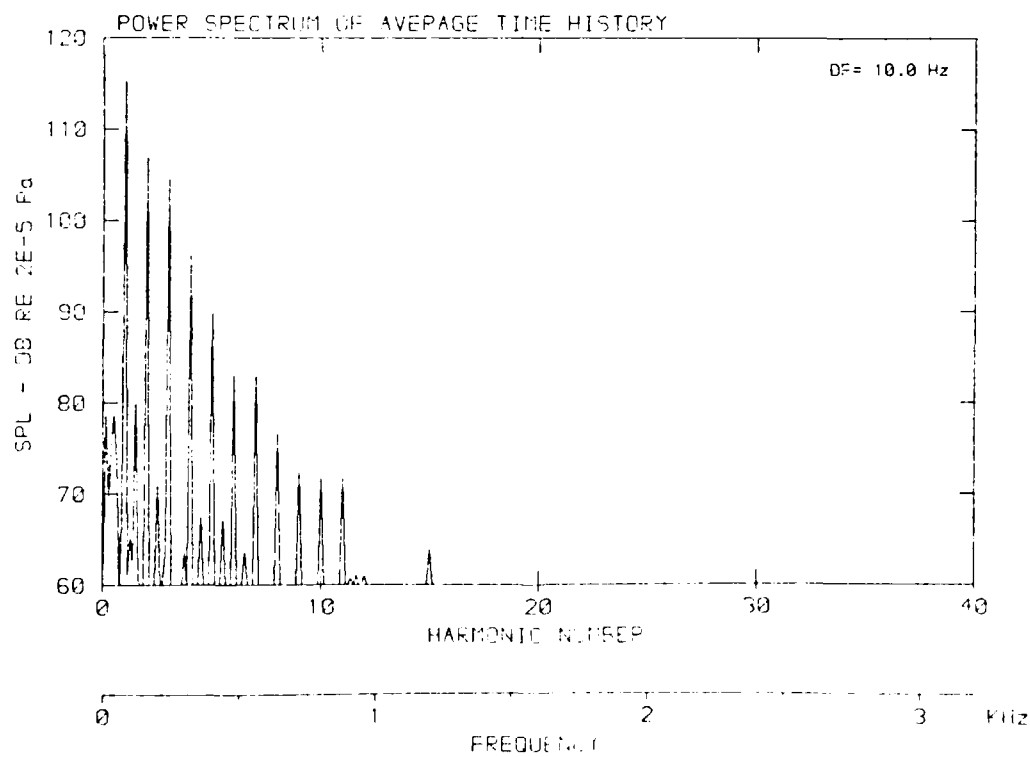
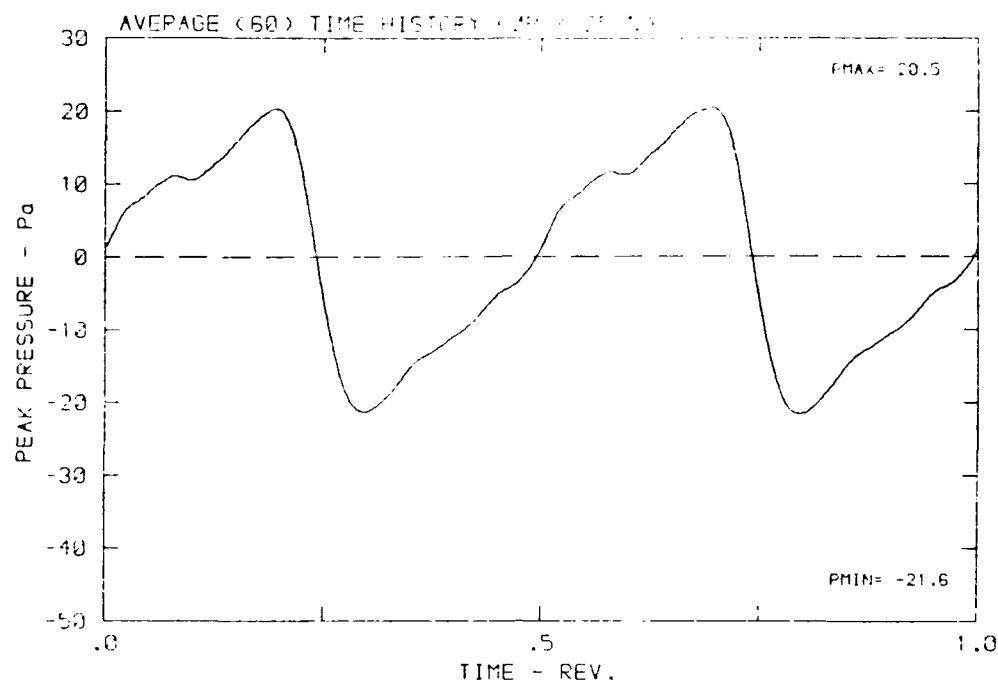
DATA POINT: BC-3 RUN: 75 MP: 7

β : 20.7° MH: .7644 n: 2400 rpm v/u : .180 ϕ : .0° T: 286.6 K



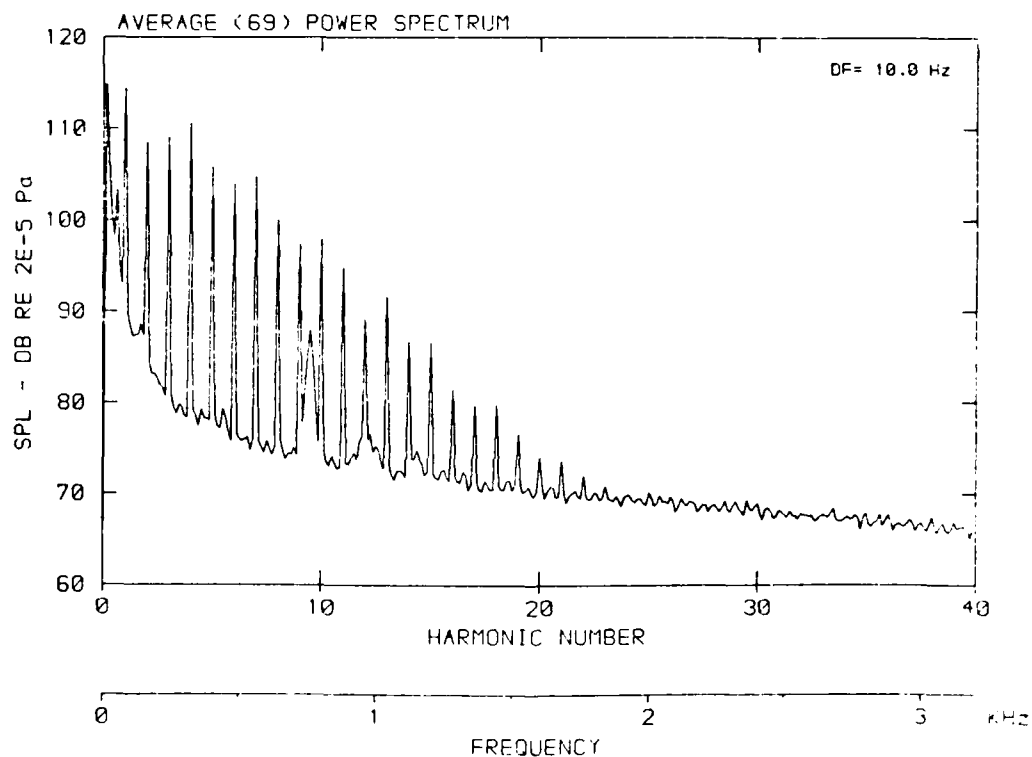
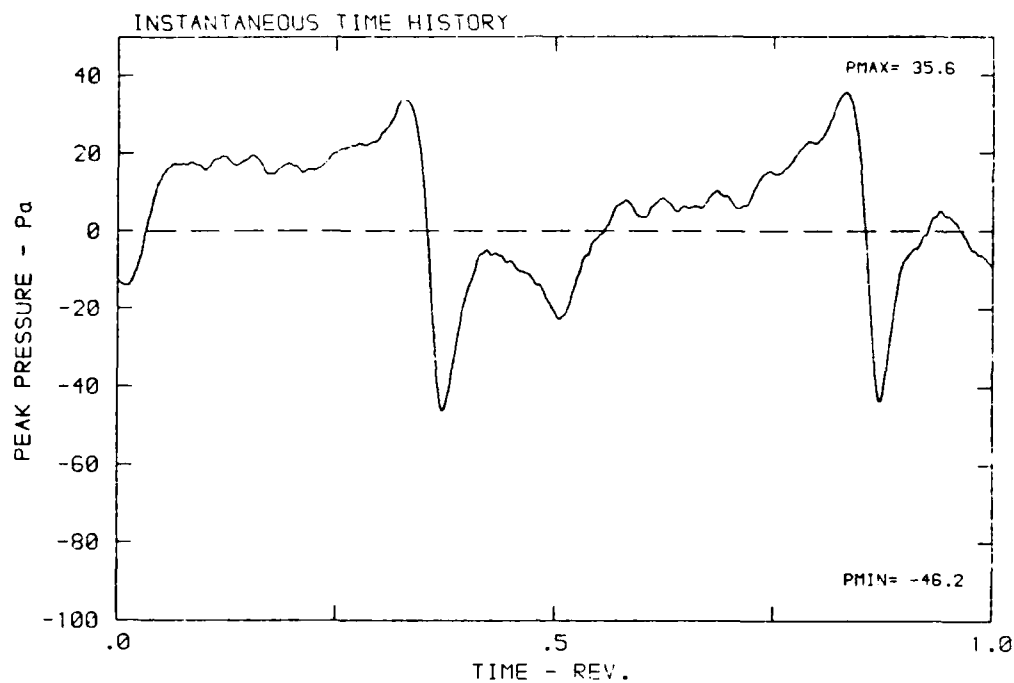
DATA POINT: BC-3 RUN: 75 MP: 7

β : 20.7° MH: .7644 n: 2400 rpm ν : .183 ϕ : .0° T: 285.6 K



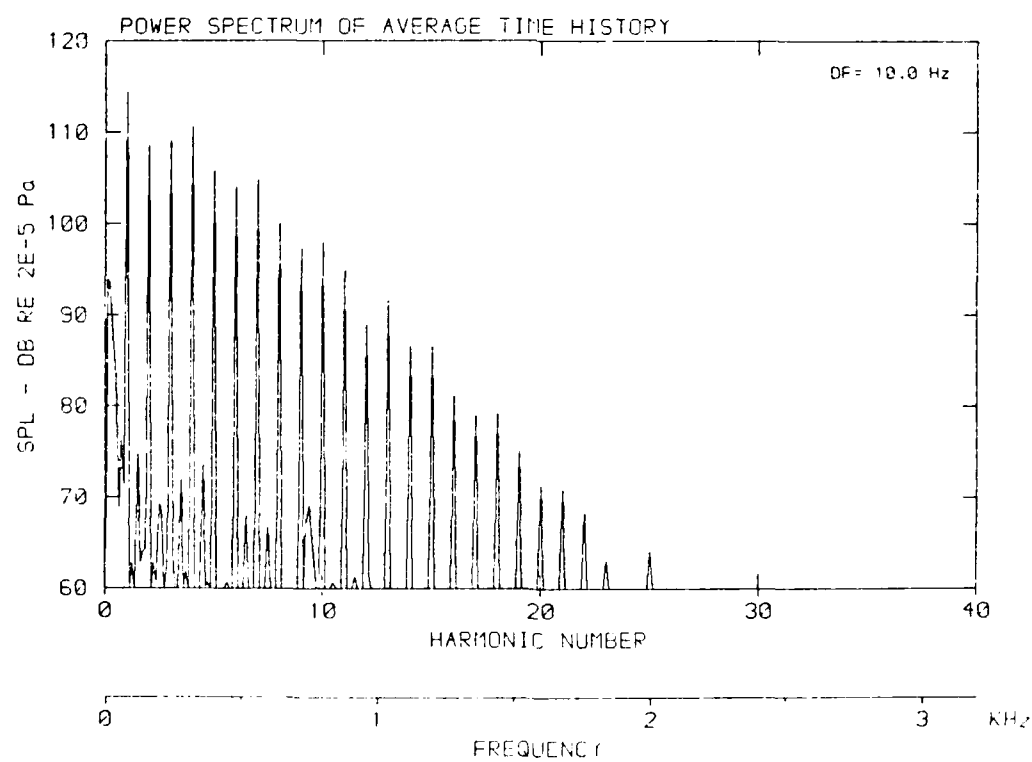
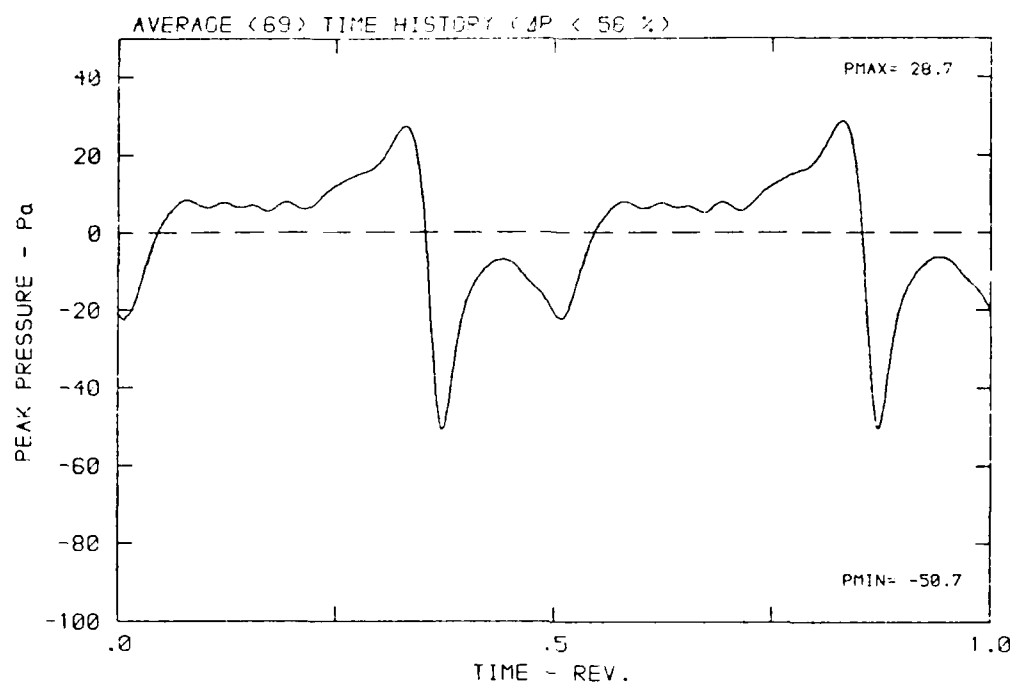
DATA POINT: BC-3 RUN: 75 MP: 9

β : 20.7° MH: .7544 n: 2400 rpm ν_{fu} : .180 ϕ : .0° T: 286.8 K



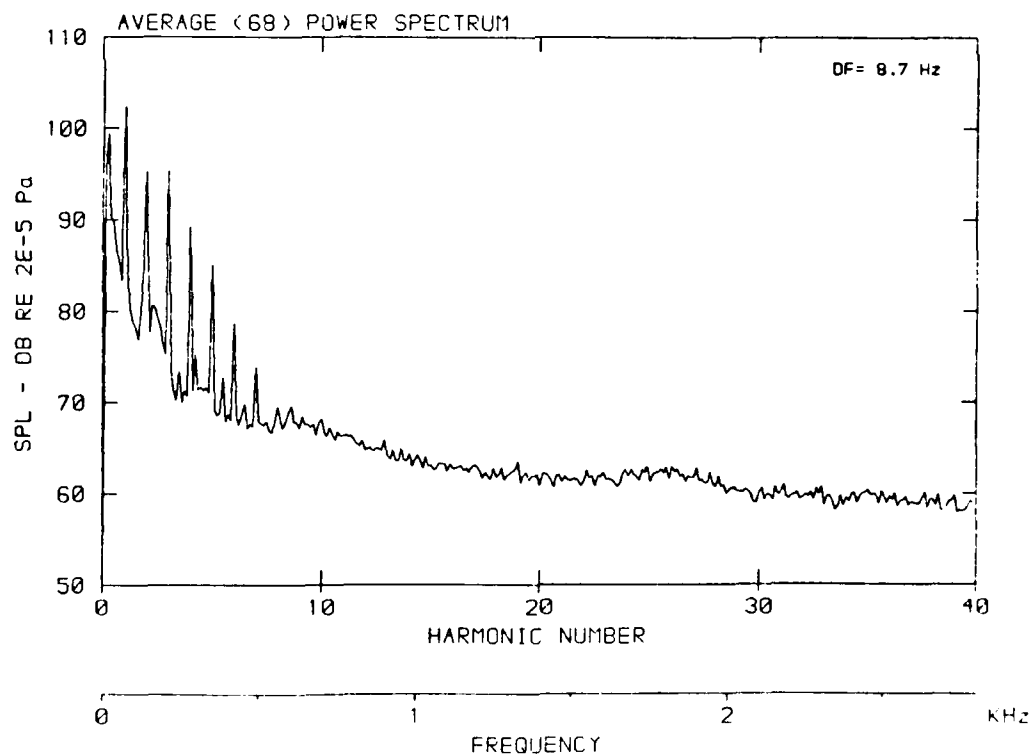
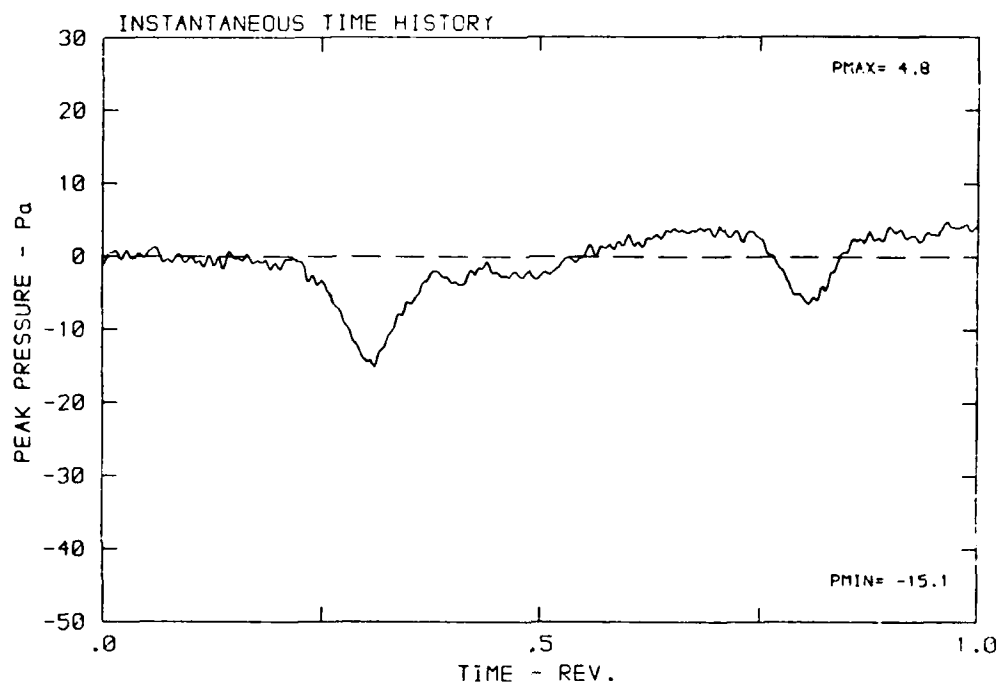
DATA POINT: BC-3 RUN: 75 MP: 9

β : 20.7° MH: .7644 n: 2400 rpm ν : .180 ϕ : .0° T: 285.6 K



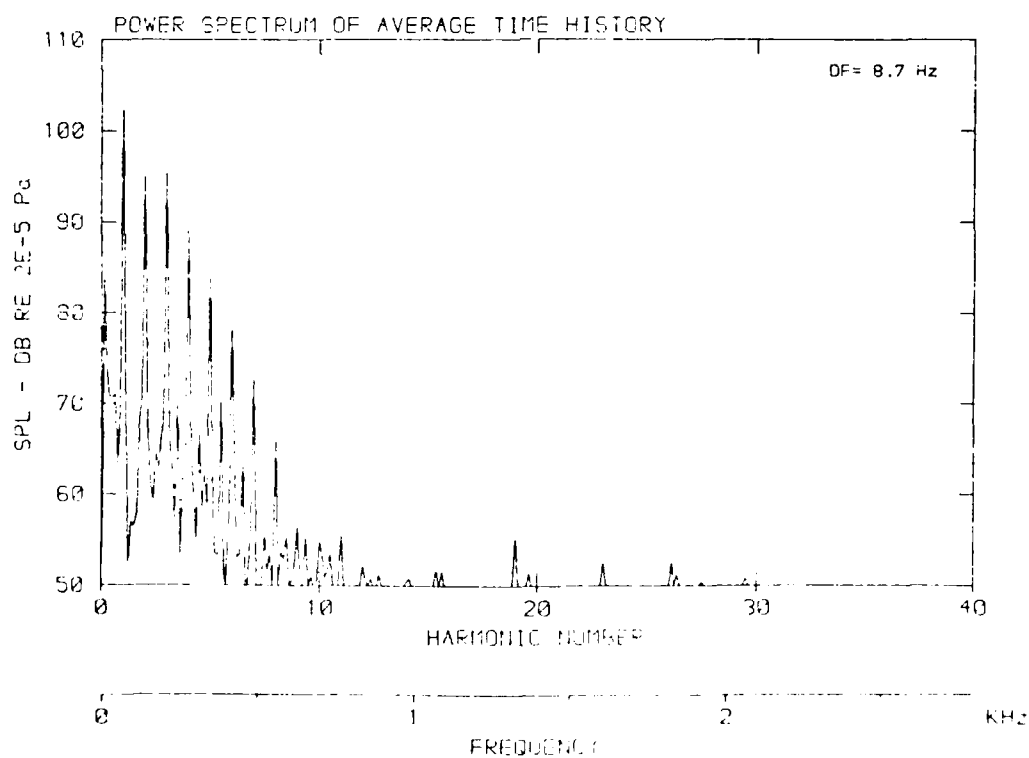
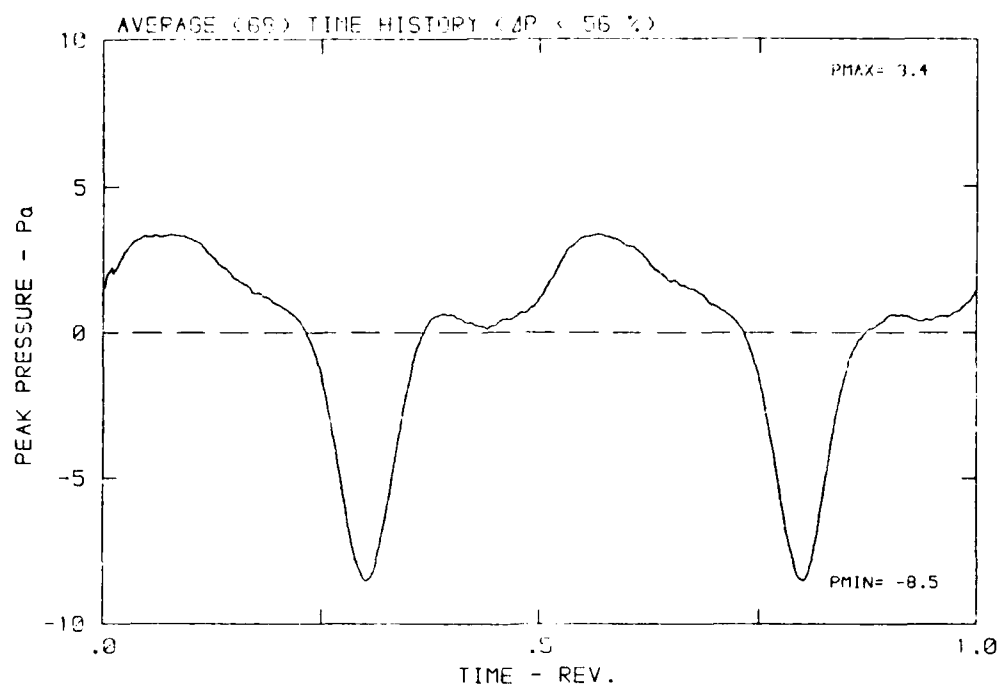
DATA POINT: BC-4 RUN: 73 MP: i

β : 20.7° MH: .6762 n: 2100 rpm v/u: .229 ϕ : .0° T: 285.9 K



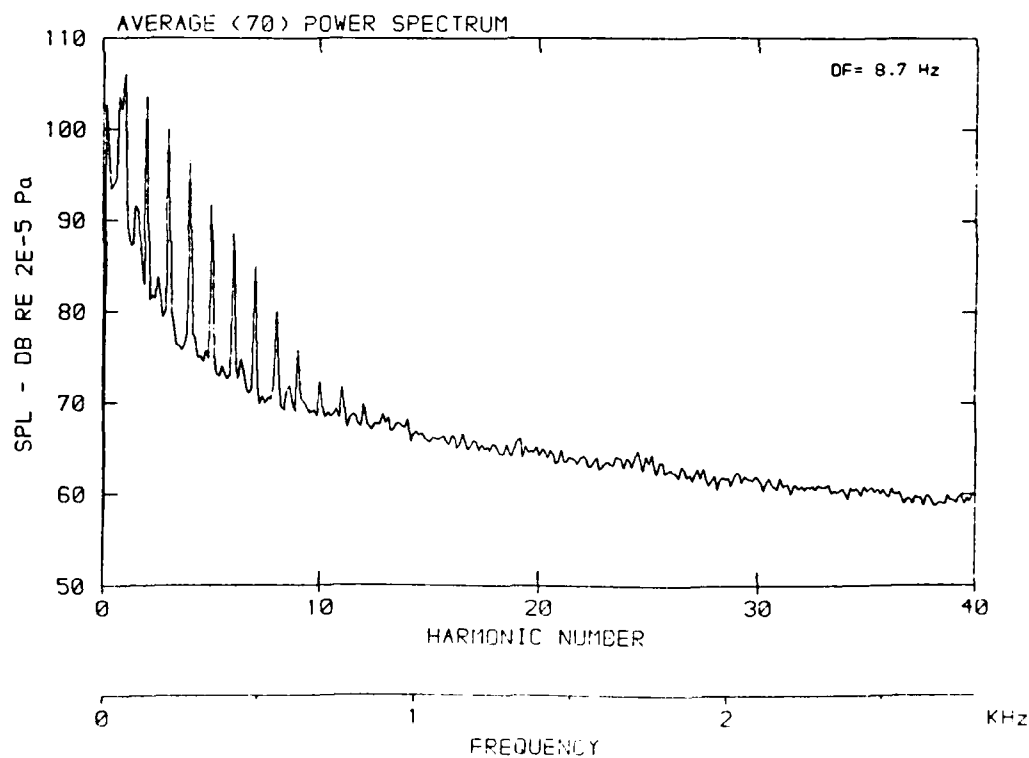
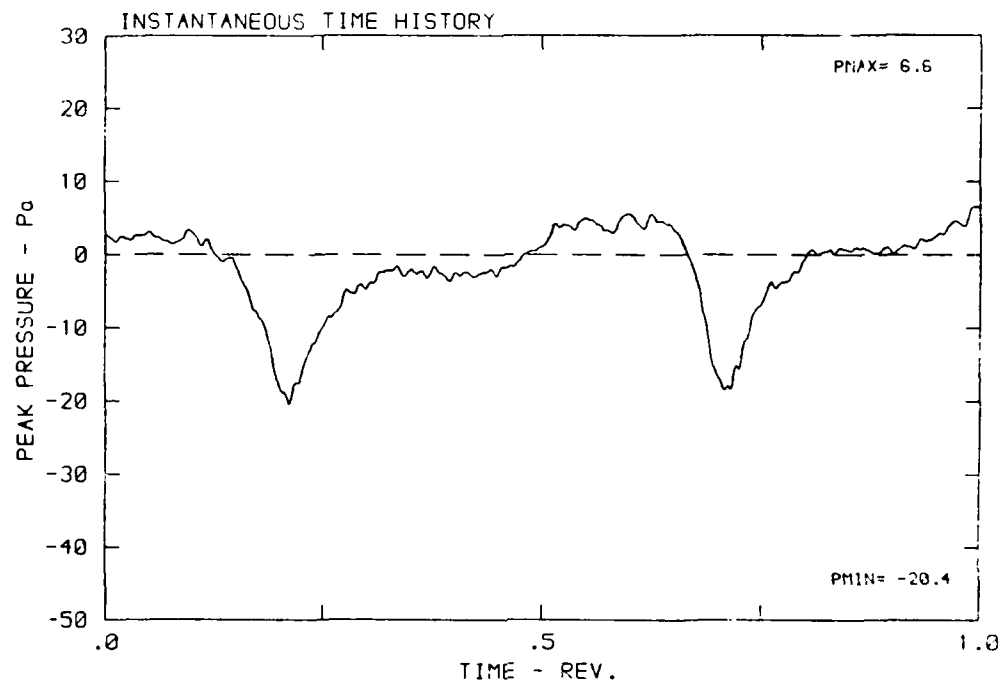
DATA POINT: BC-4 RUN: 73 MP: 1

β : 20.7° MH: .6762 n: 2100 rpm v/u : .229 ϕ : .0° T: 285.9 K



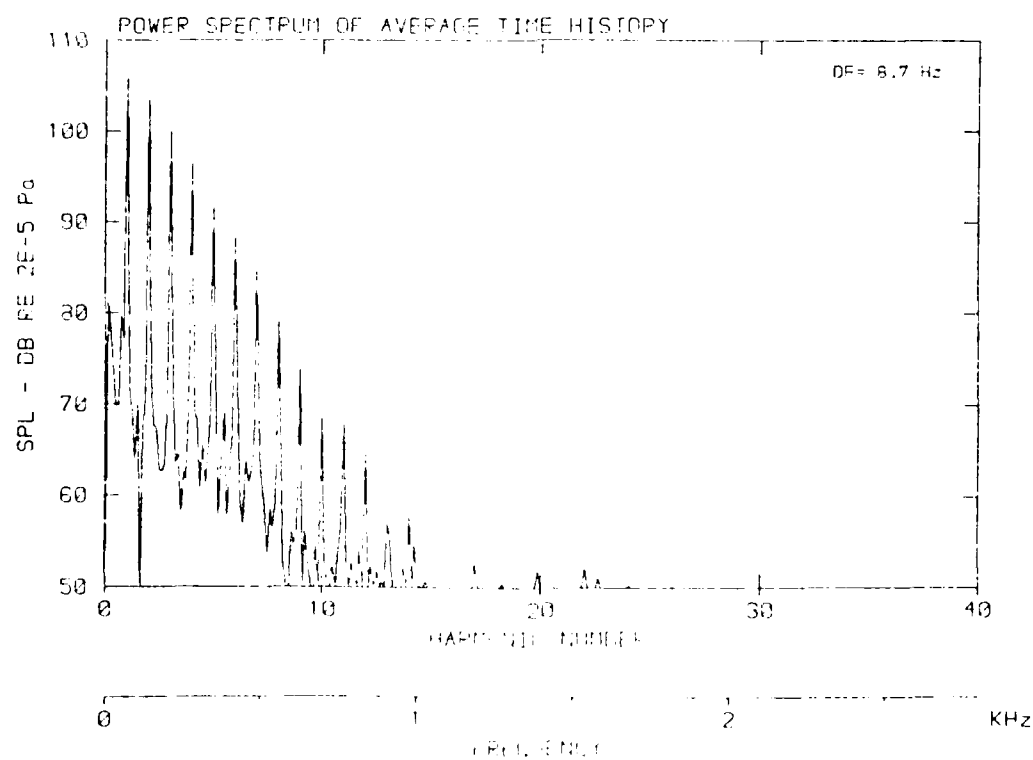
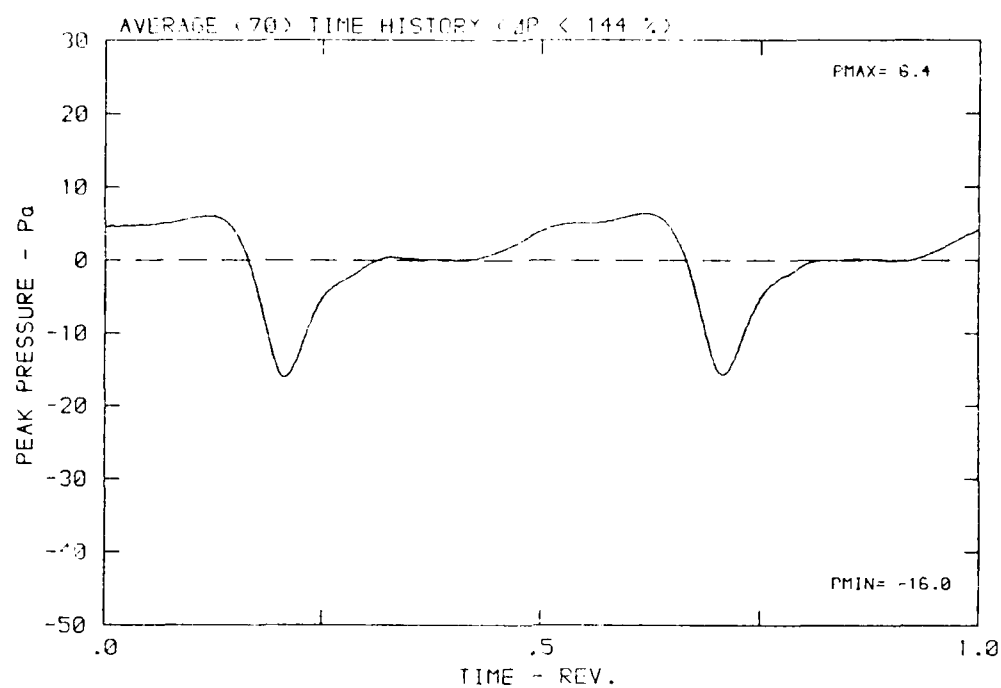
DATA POINT: BC-4 RUN: 73 MP: 2

β : 20.7° MH: .6762 n: 2100 rpm v/u: .229 ϕ : .0° T: 265.9 k



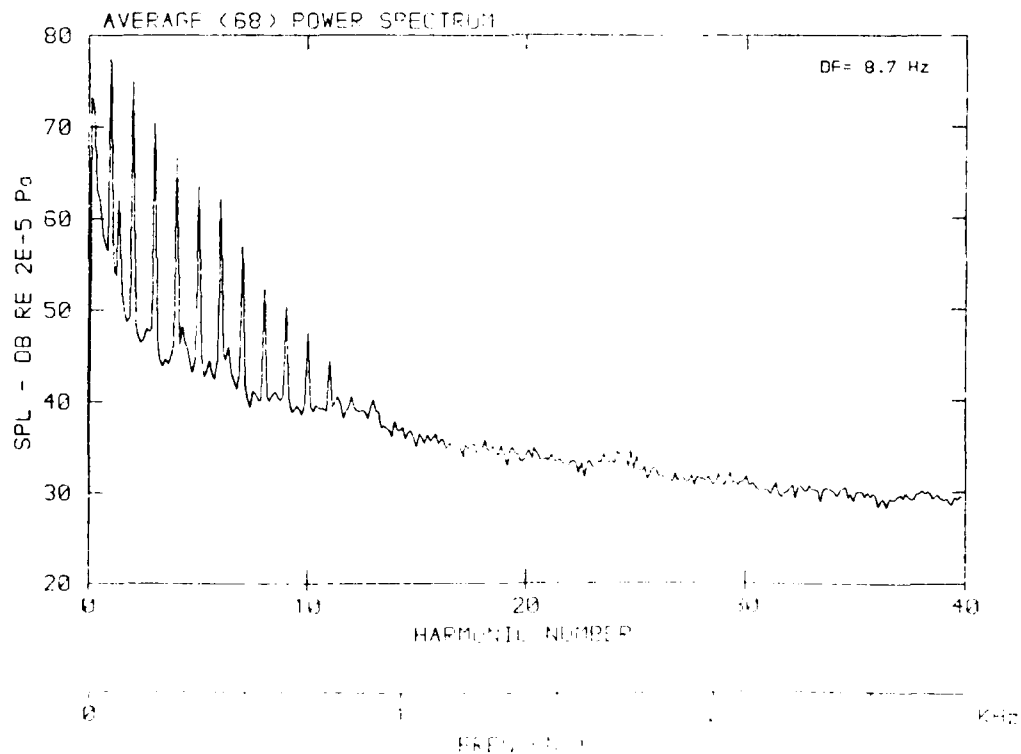
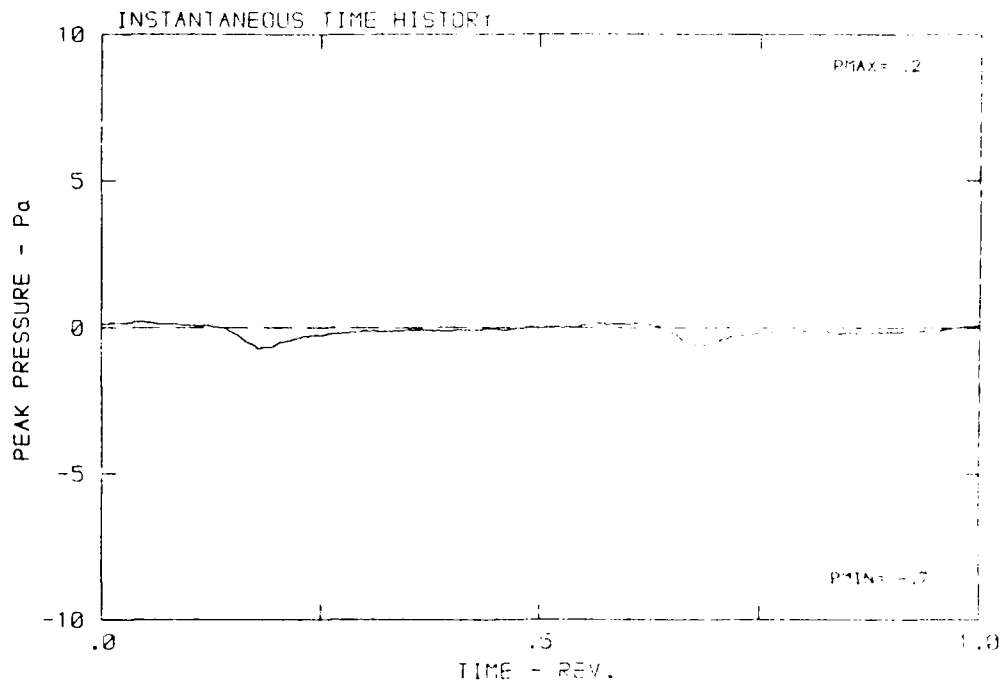
DATA POINT: BC-4 RUN: 73 MP: 2

β : 20.7° MH: .6762 n: 2100 rpm ν/α : .229 ϕ : .0° T: 285.9 K



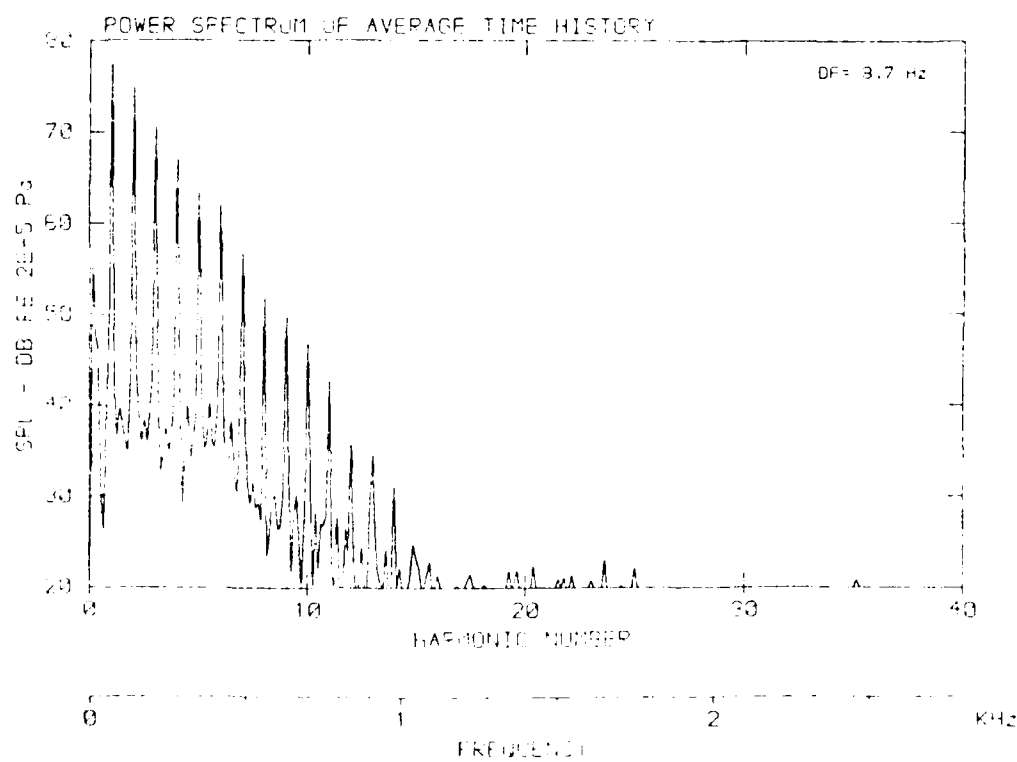
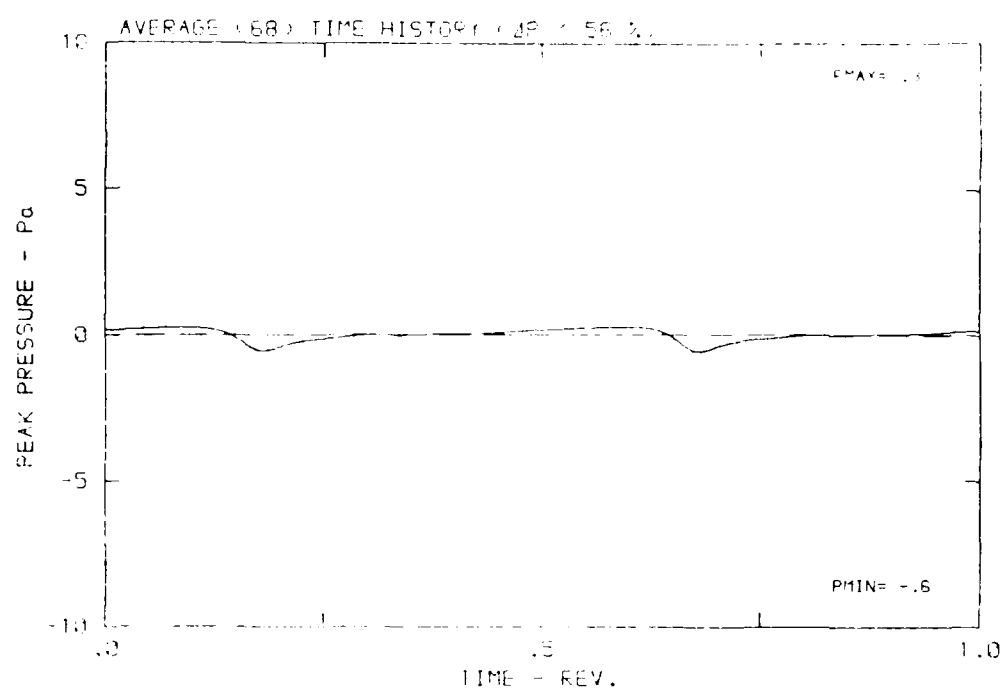
DATA POINT: BC-4 RUN: 73 DF: 8.7

β : 20.7° MH: .6762 n: 2100 rpm ϕ : .023 ϕ : .02° ϕ : .02°



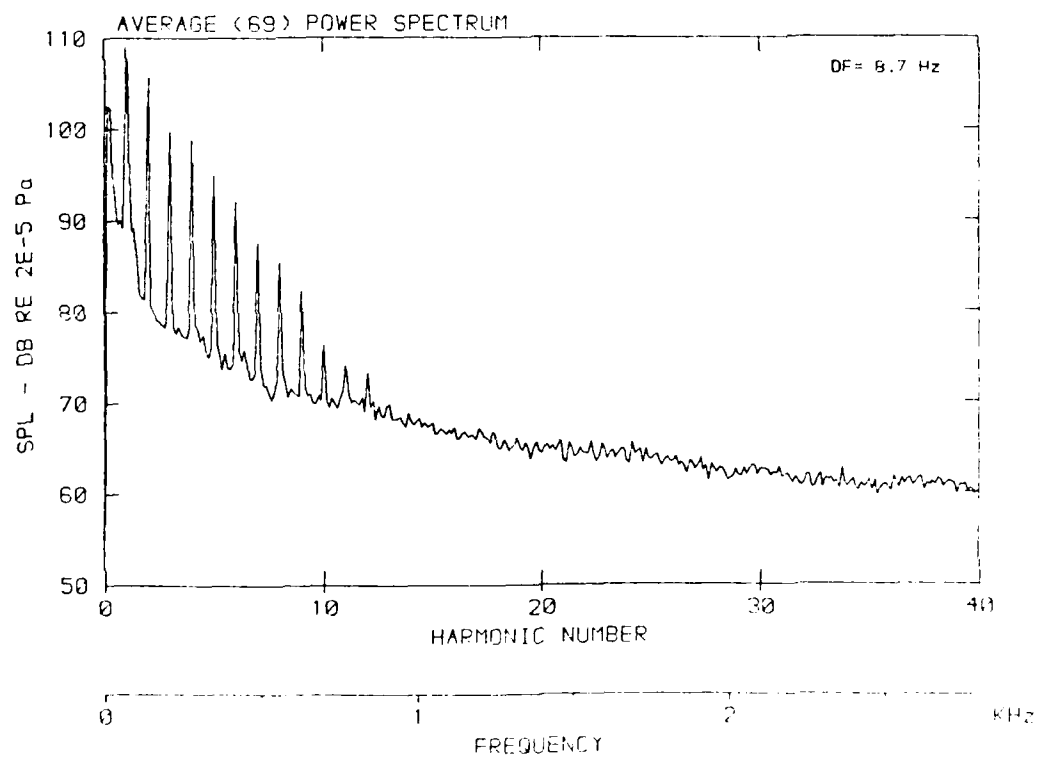
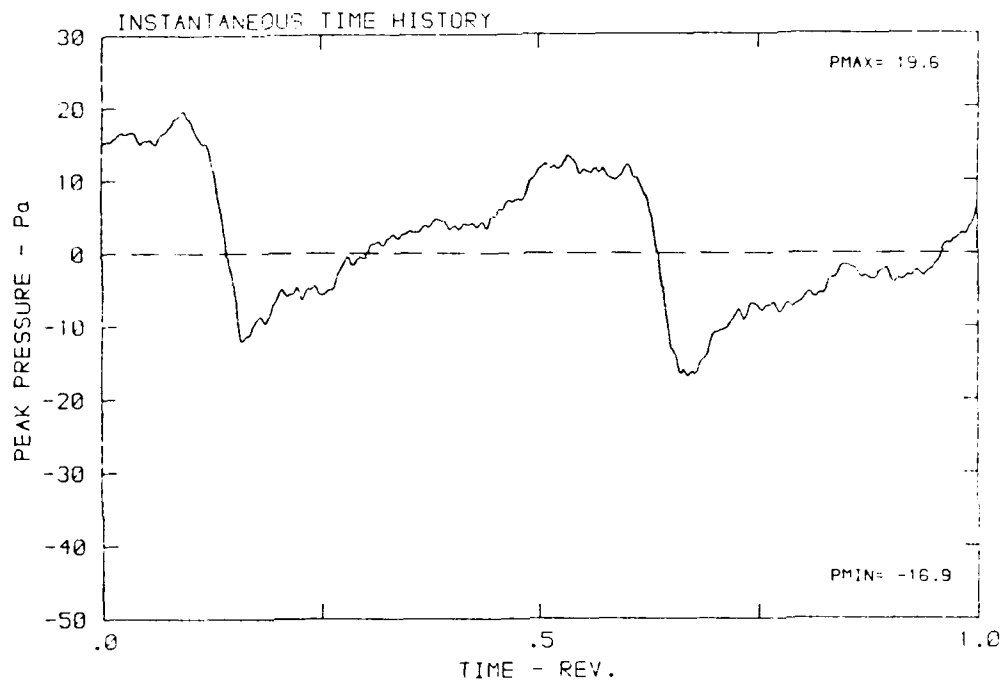
DATA POINT: BC-4 RUN: 73 MP: 3

β : 20.7° MH: .6762 n: 2100 rpm v/u : .229 ϕ : .0° T: 285.9 K



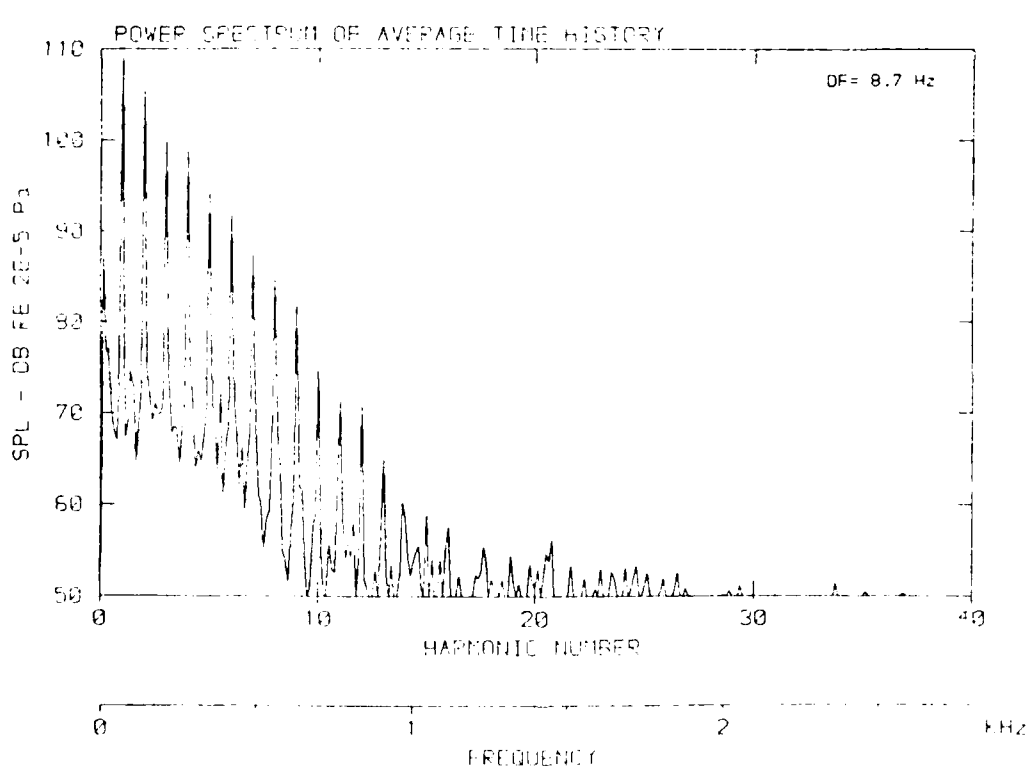
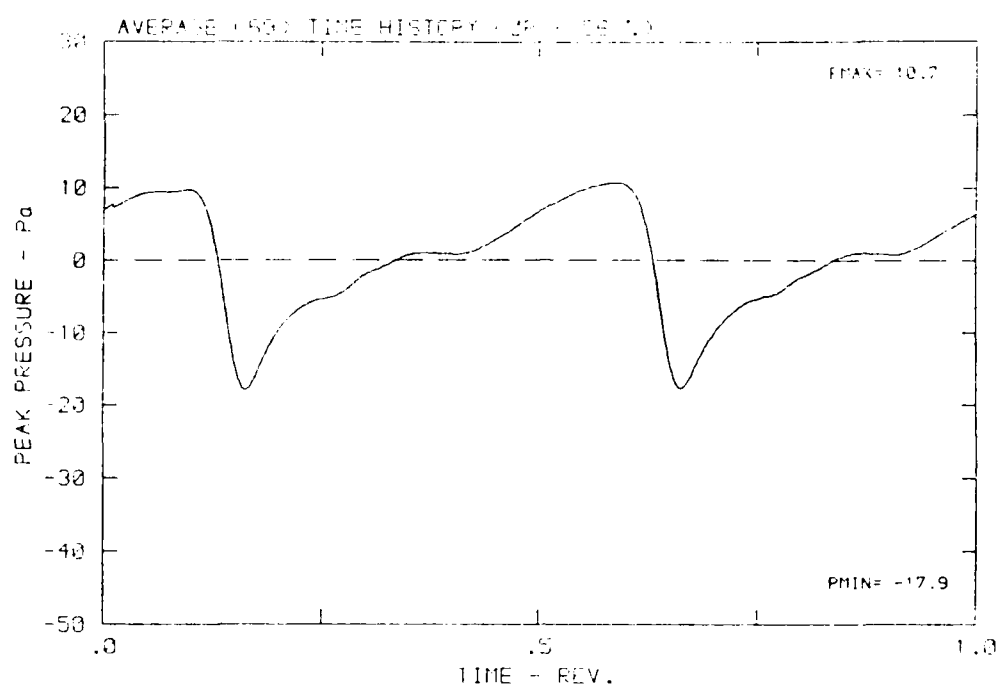
DATA POINT: BC-4 RUN: 73 MP: 4

β : 20.7° MH: .6762 n: 2100 rpm vzu: .229 ϕ : .0° I: 265.6



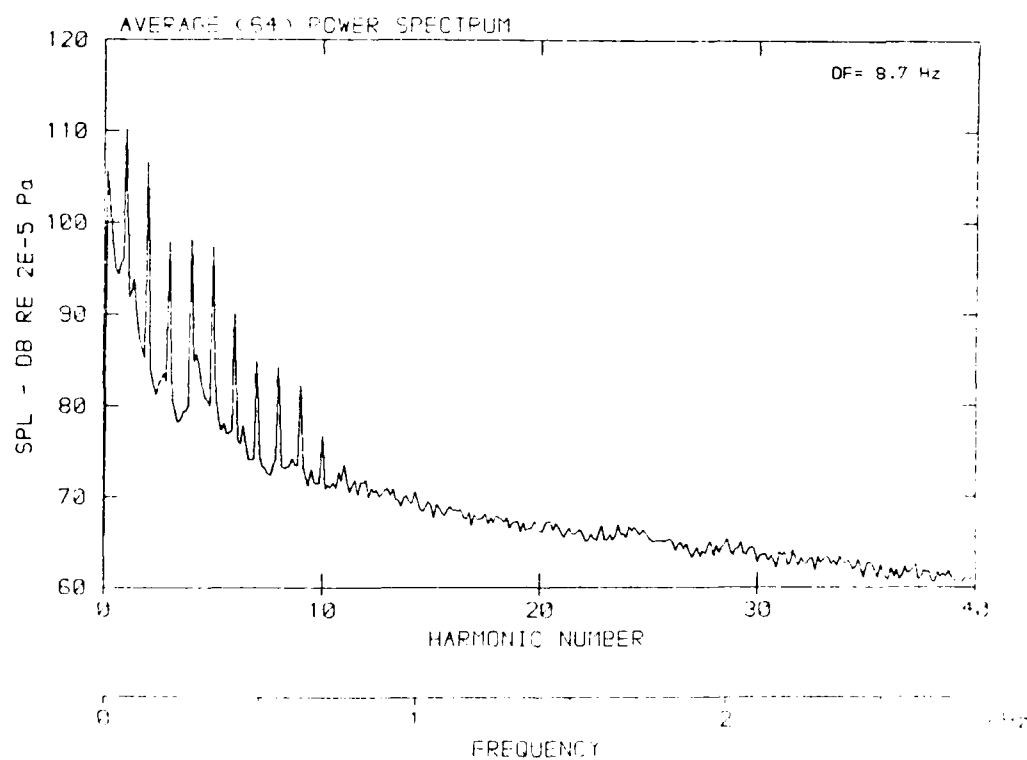
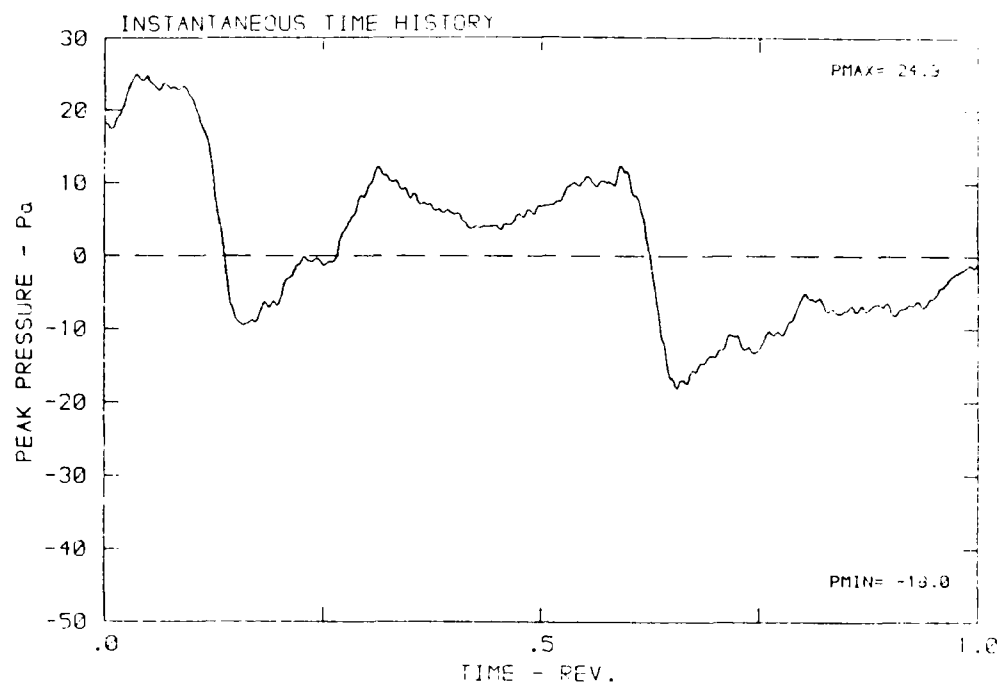
DATA POINT: RC-4 RUN: 73 MP: 4

β : 20.7° MH: .6762 n: 2100 rpm γ : .220 ϕ : .0° T: 265.9 K



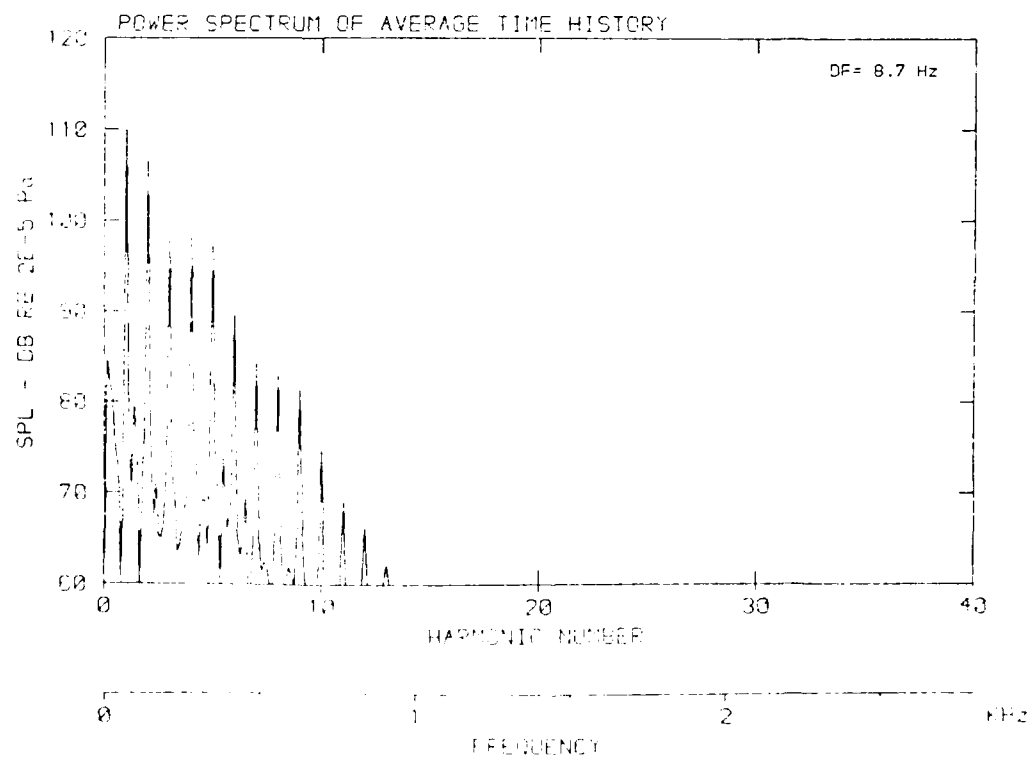
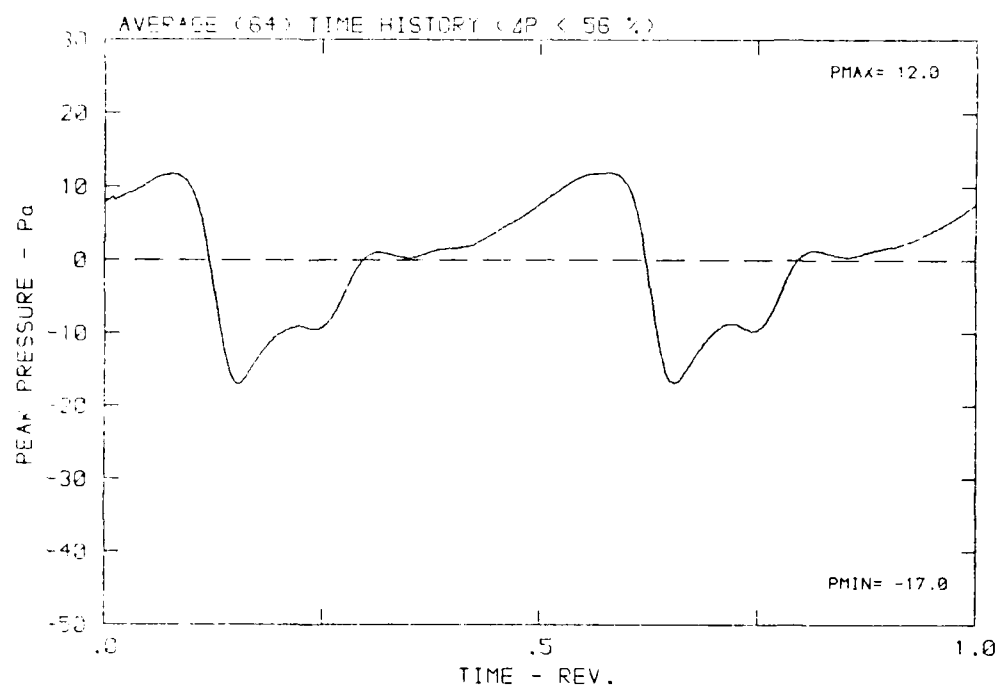
DATA POINT: BC-4 RUN: 73 MP: 5

β : 20.7° MH: .6762 n: 2100 rpm v/u : .229 ϕ : .0° T : .05



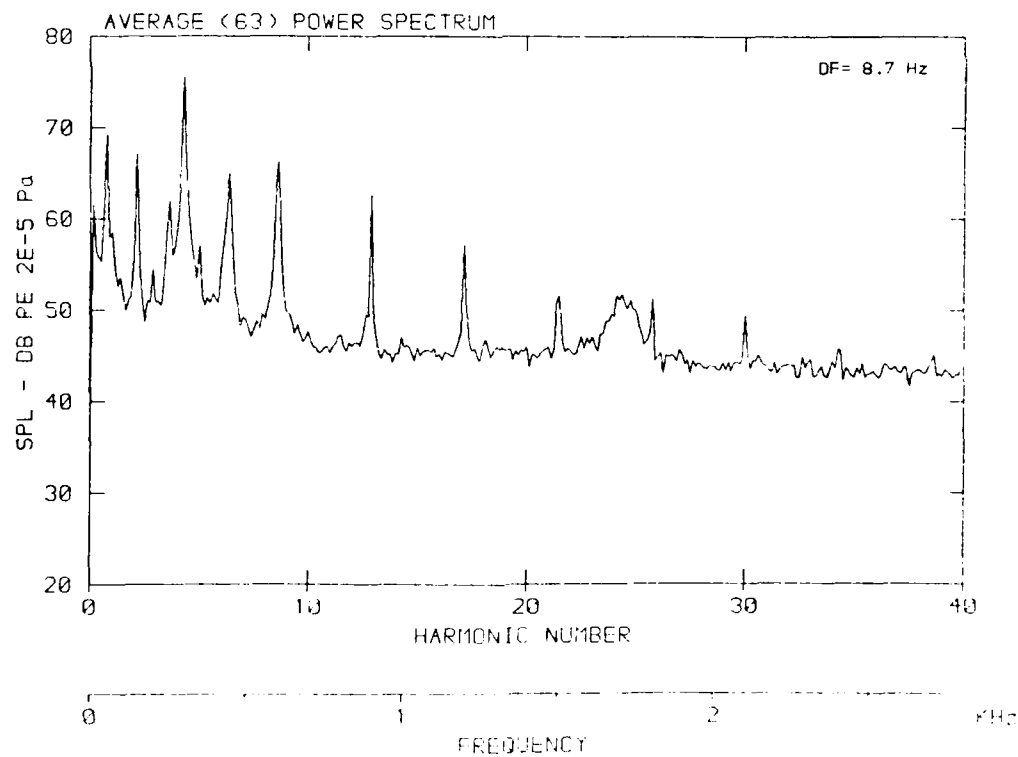
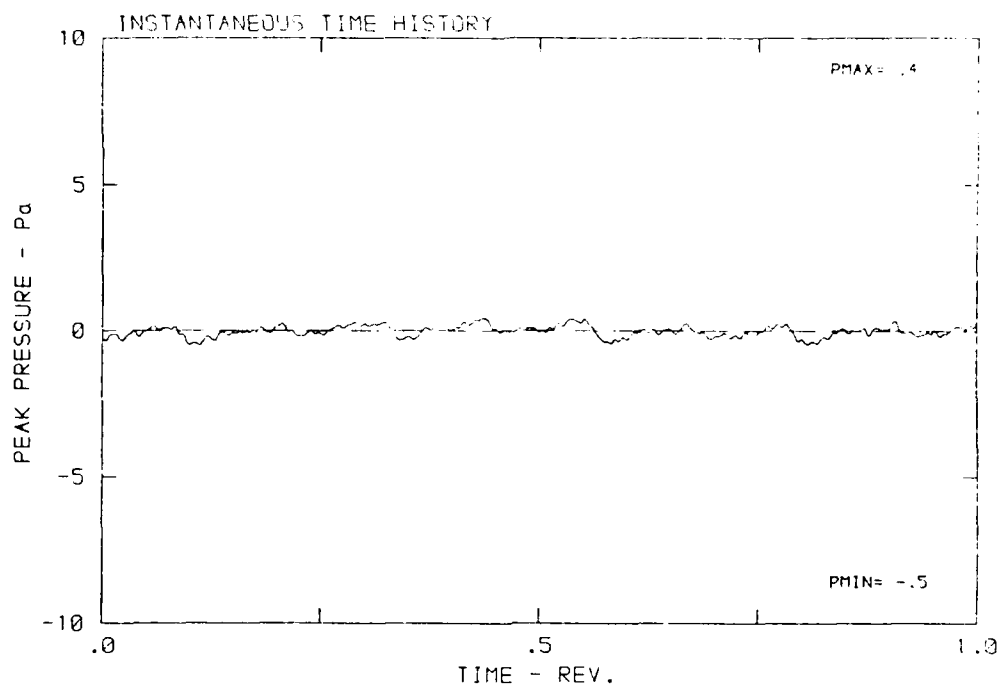
DATA POINT: BC-4 RUN: 73 MP: 5

β : 20.7° MH: .6762 n: 2100 rpm v/u : .229 ϕ : .0° T: 285.9 K



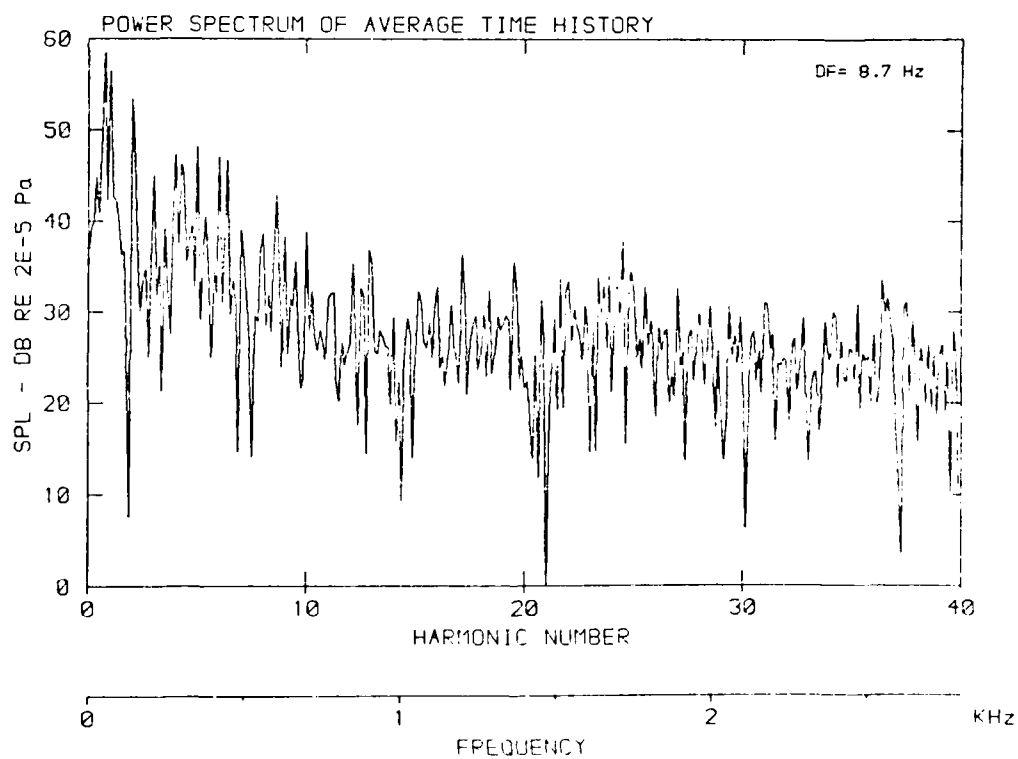
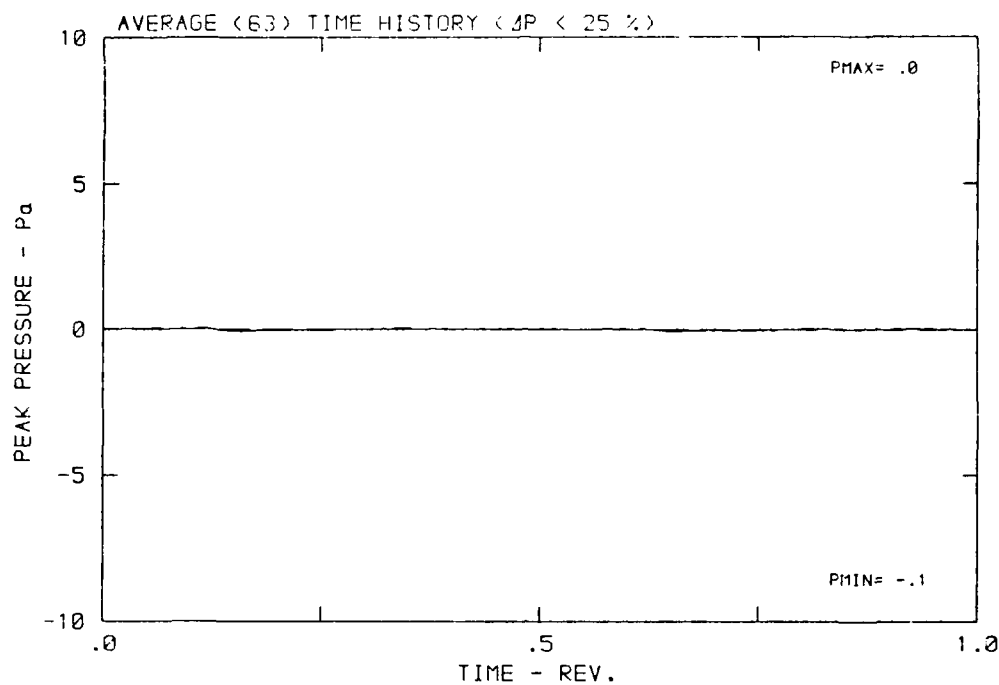
DATA POINT: BC-4 RUN: 73 MP: 6

β : 20.7° MH: .6762 n: 2100 rpm v/u : .229 ϕ : .0° T: 1.05.12



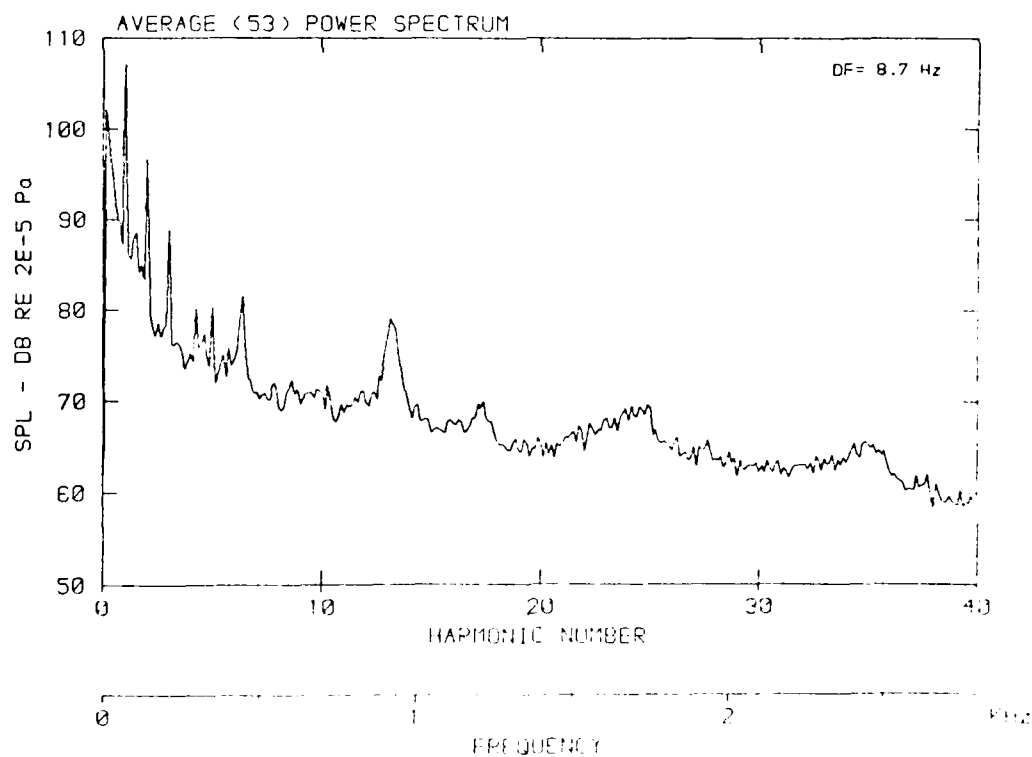
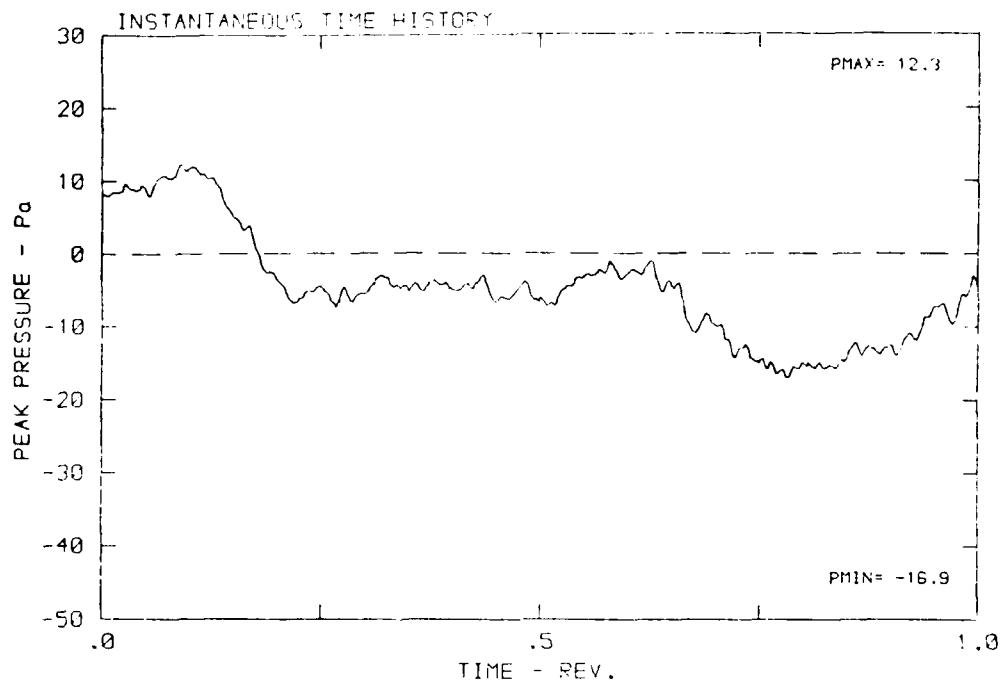
DATA POINT: BC-4 RUN: 73 MP: 6

β : 20.7° MH: .6762 n: 2100 rpm v/u: .229 ϕ : .0° T: 285.9 K



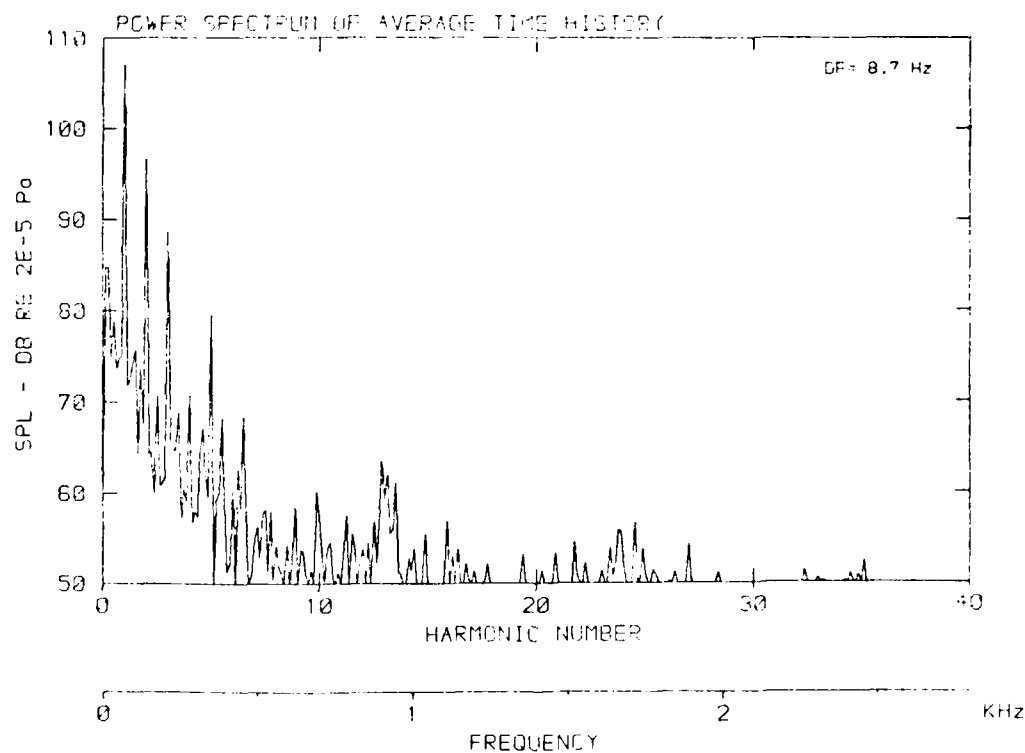
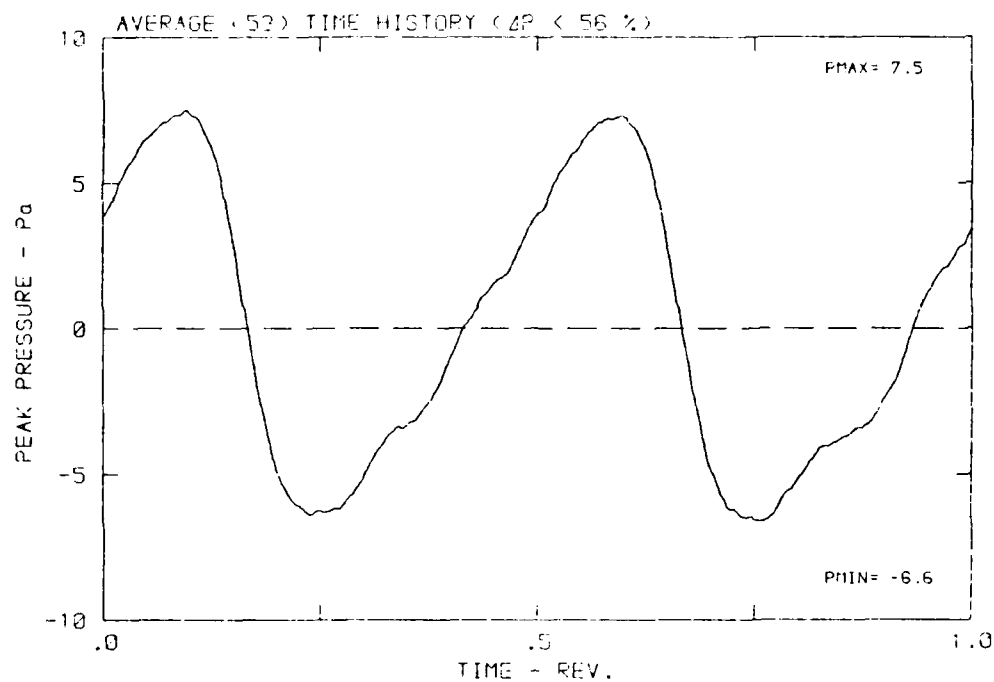
DATA POINT: BC-4 RUN: 73 MP: 7

β : 20.7° MH: .6762 n: 2100 rpm λ : .229 ϕ : .0° T: 285.9 K



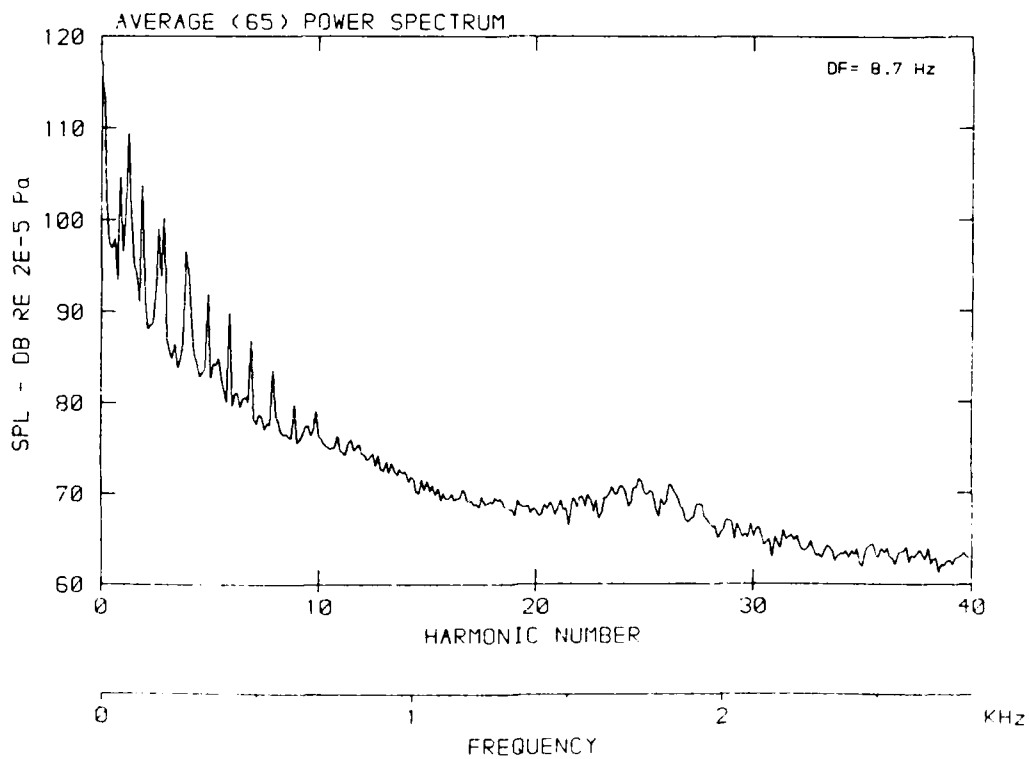
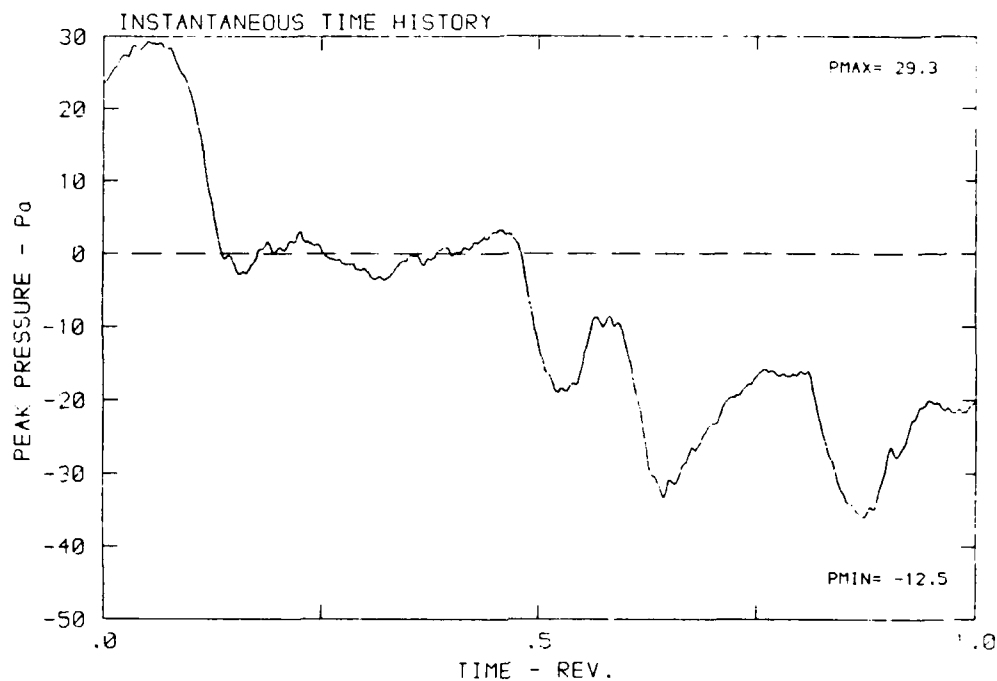
DATA POINT : BC-4 RUN : 73 MP : 7

β : 20.7° MH : .6762 n : 2100 rpm v/u : .229 ϕ : .0° T : 285.9 K



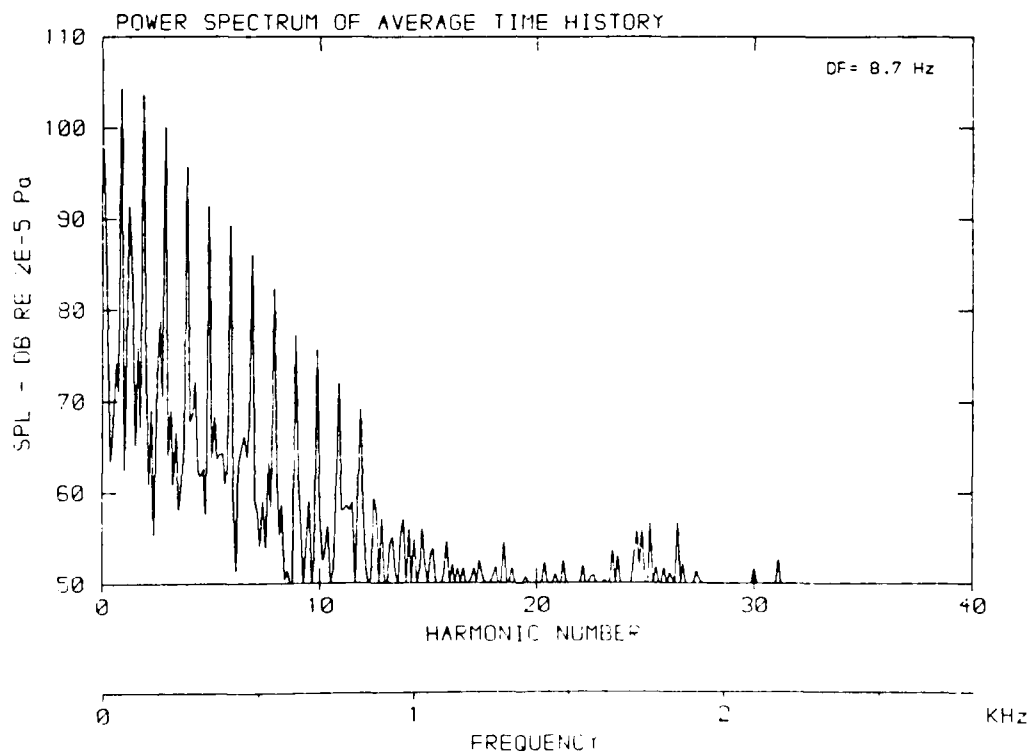
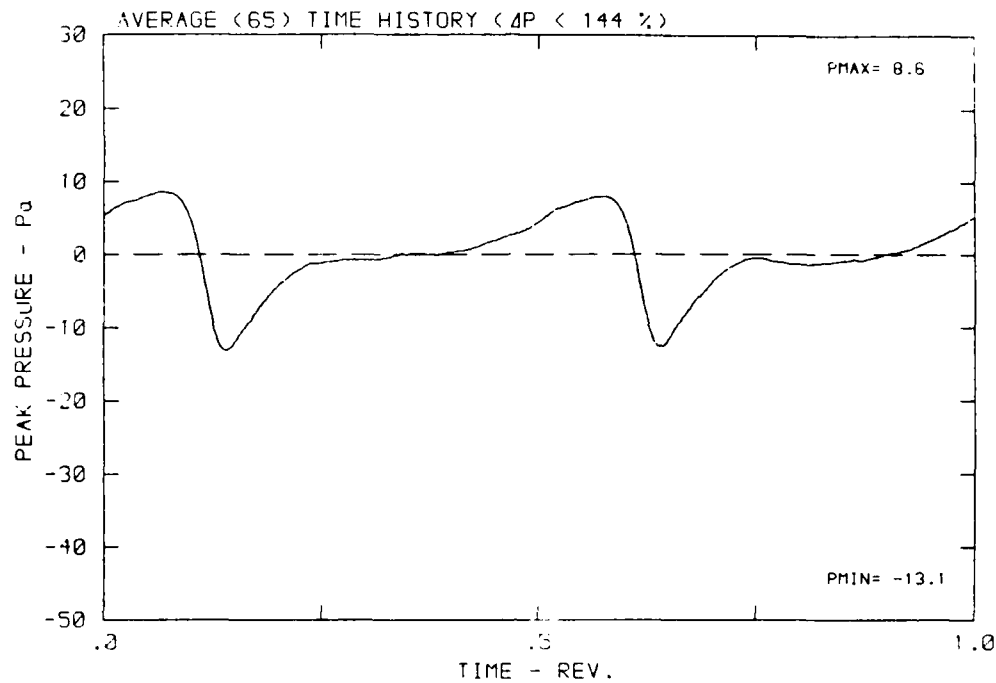
DATA POINT: BC-4 RUN: 73 MP: 3

β : 20.7° MH: .6762 n: 2100 rpm ν : .229 ϕ : .0° T: 265.3



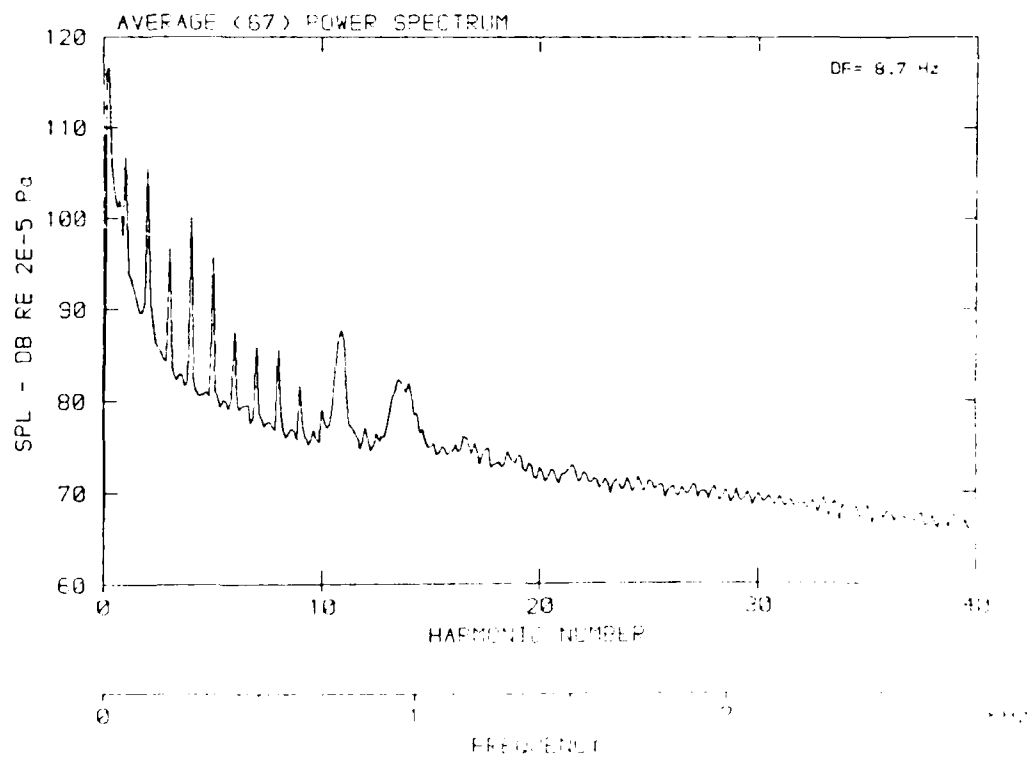
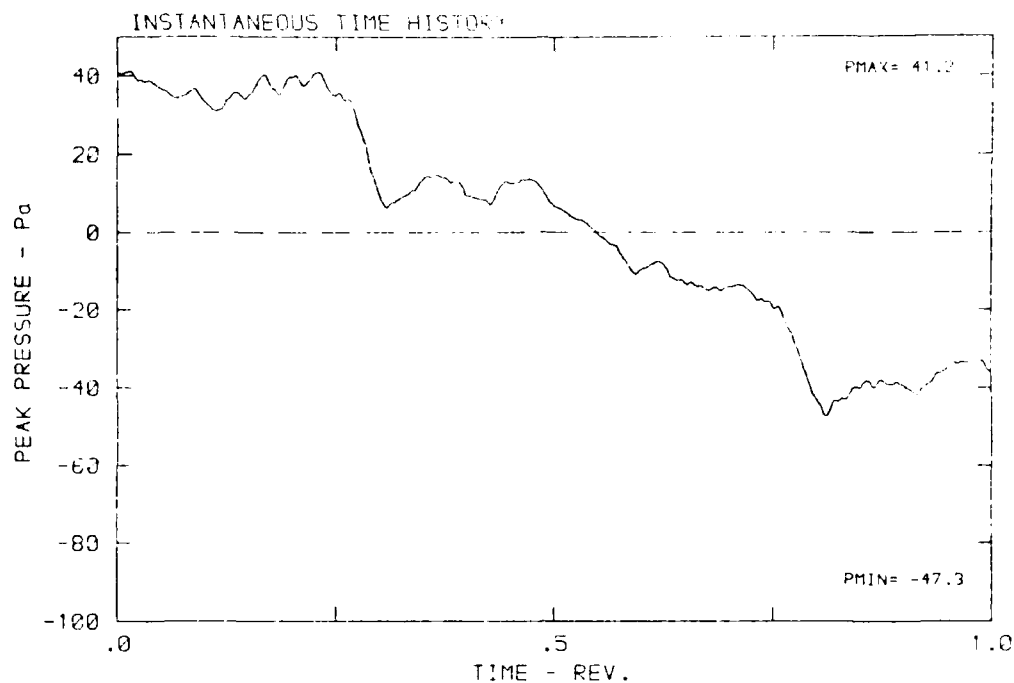
DATA POINT: BC-4 RUN: 73 MP: 8

β : 20.7° MH: .6762 n: 2100 rpm v/u: .229 ϕ : .0° T: 285.9 K



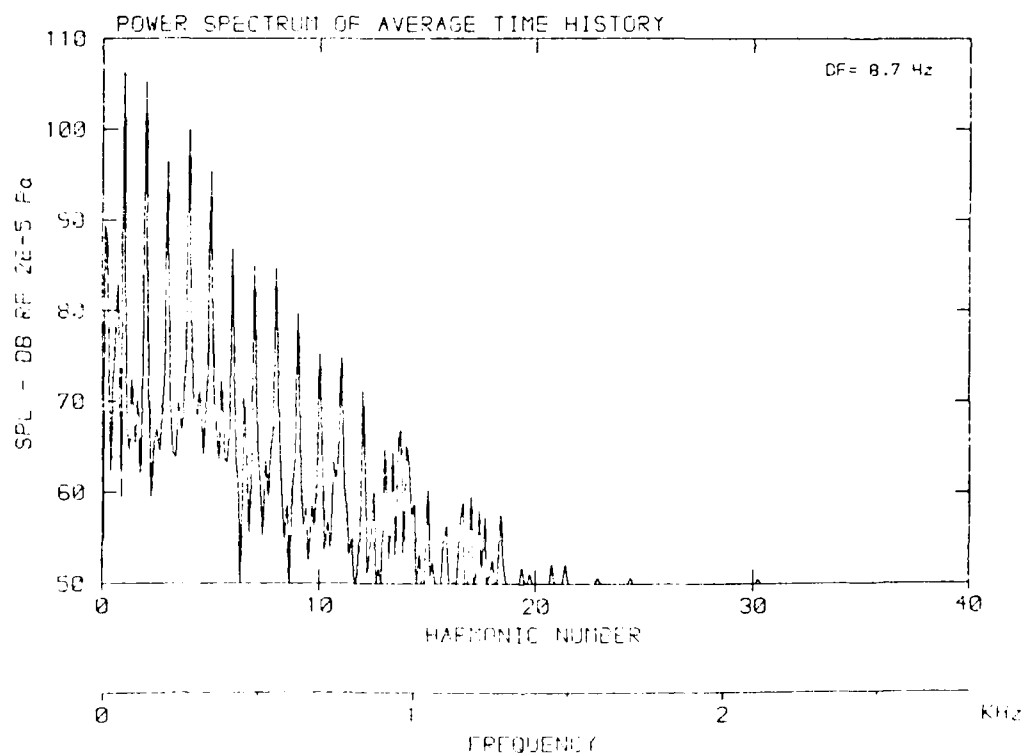
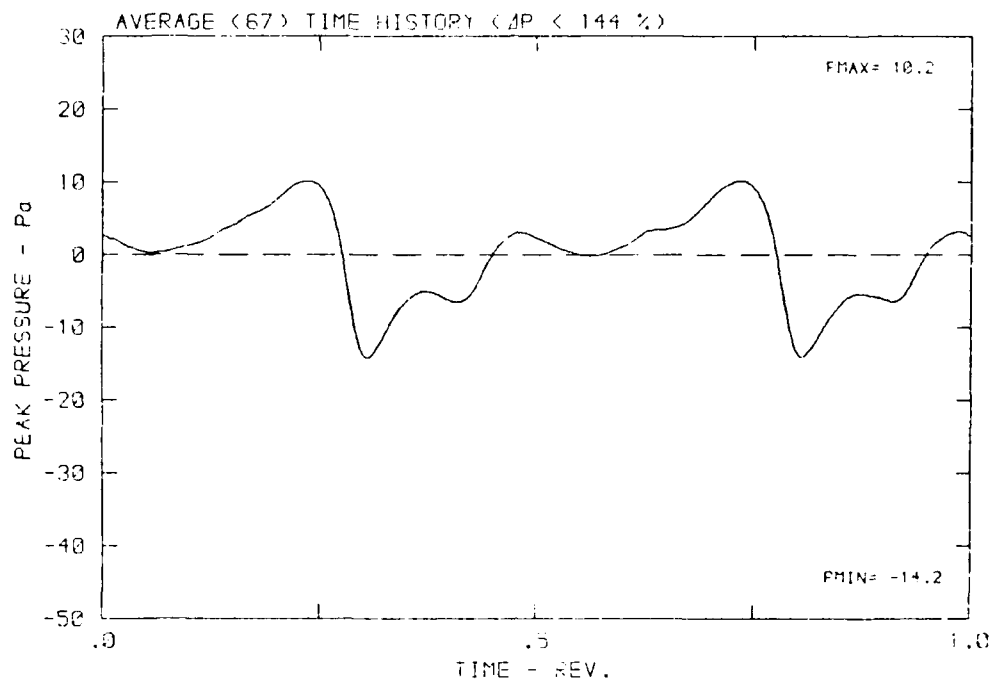
DATA POINT: BC-4 RUN: 73 MP: 9

β : 20.7° RH: .5752 n: 2100 rpm μ : .000 ϕ : .0° T: 285.9 K



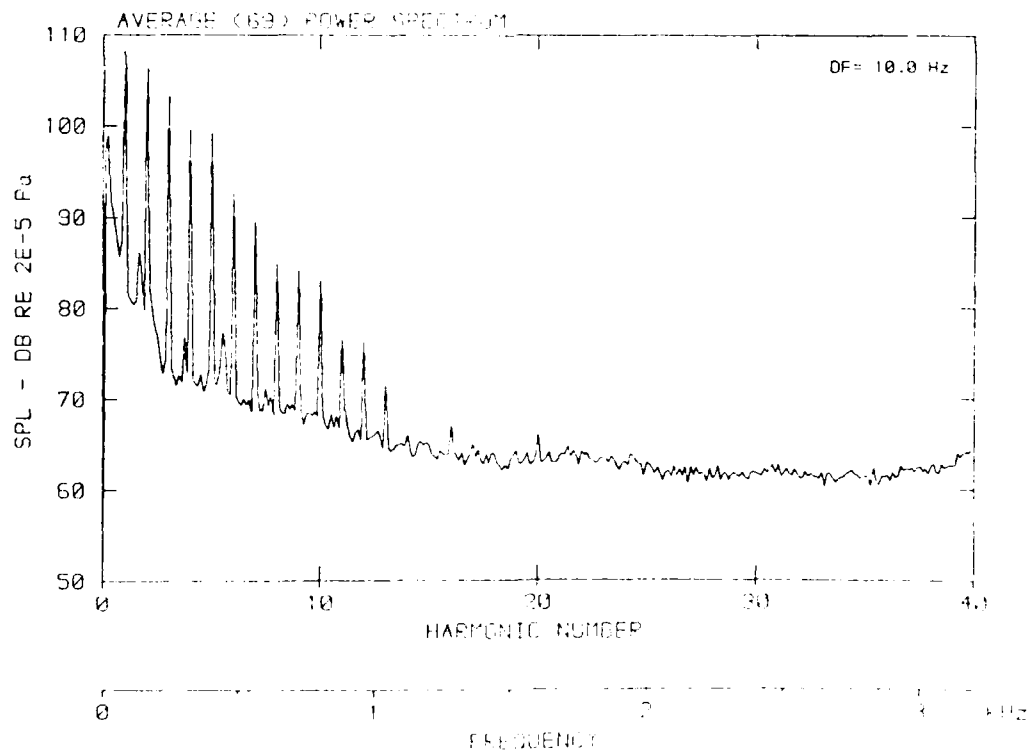
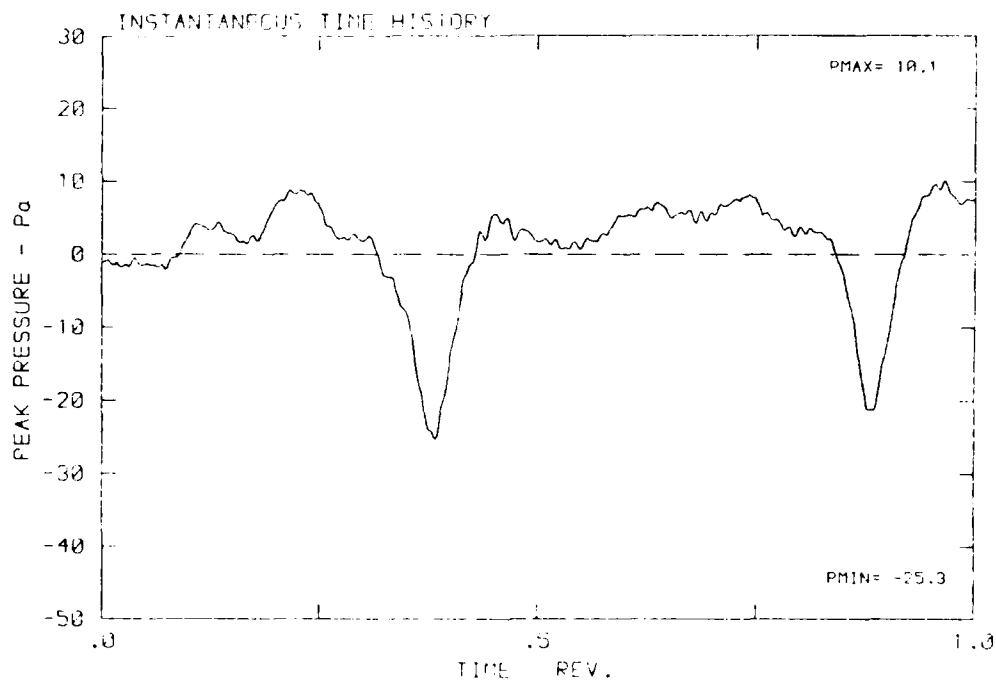
DATA POINT: BC-4 RUN: 73 MP: 9

β : 20.7° MH: .6762 n: 2100 rpm v/u: .229 ϕ : .0° T: 285.9 K



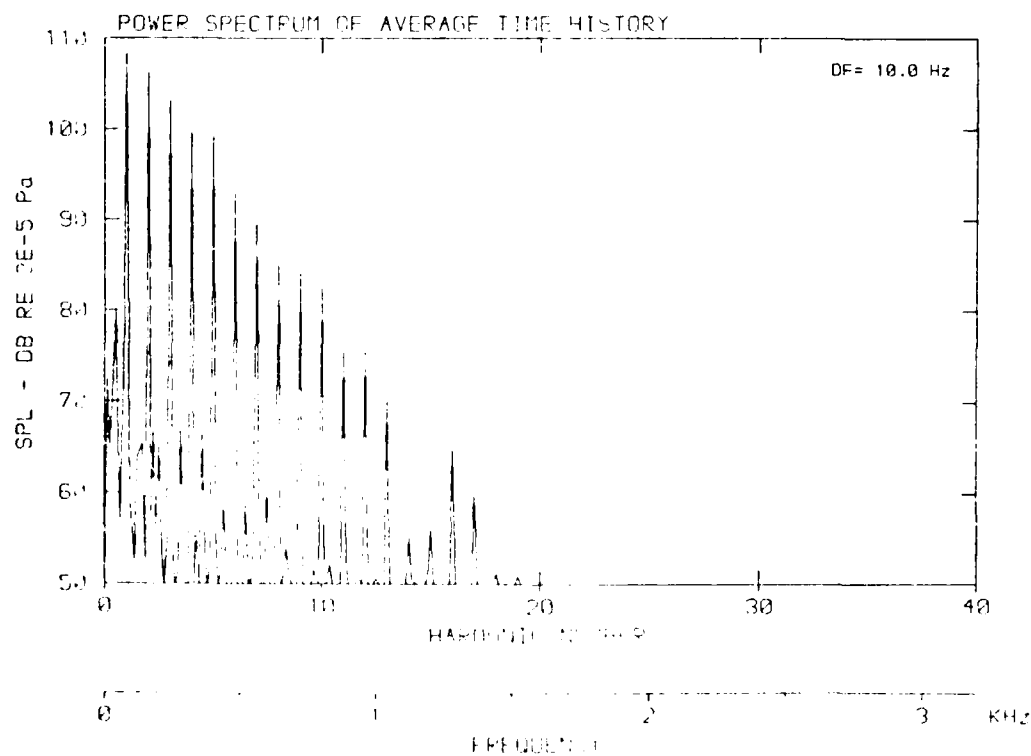
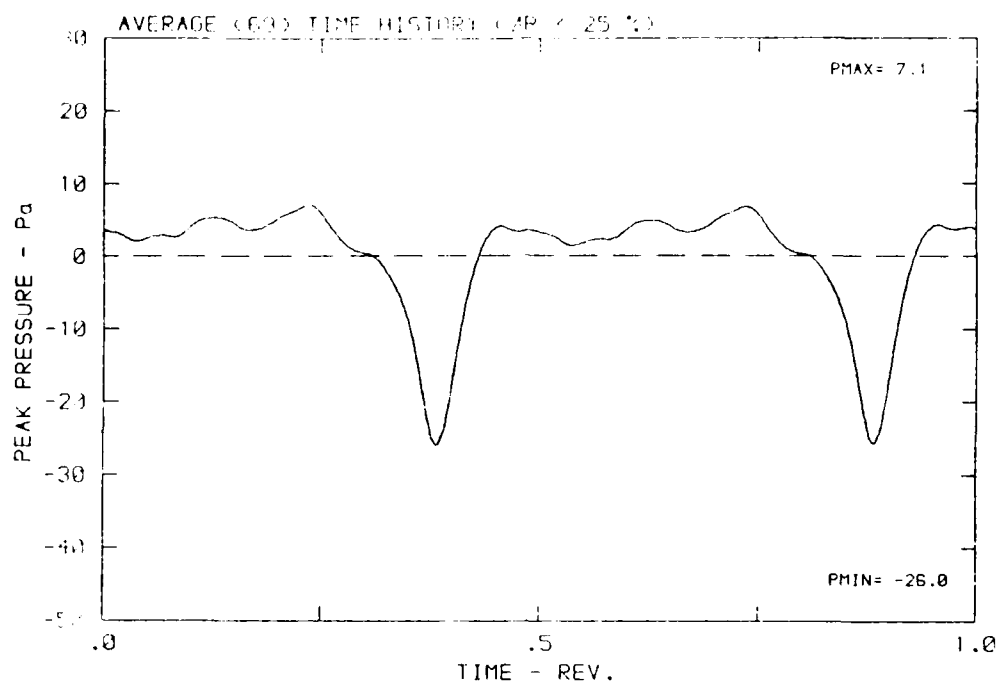
DATA POINT: RC-5 RUN: 72 MP: 1

β : 20.7° MH: .7671 n: 2400 rpm v/u : .202 ϕ : .0° T: 286.9 K



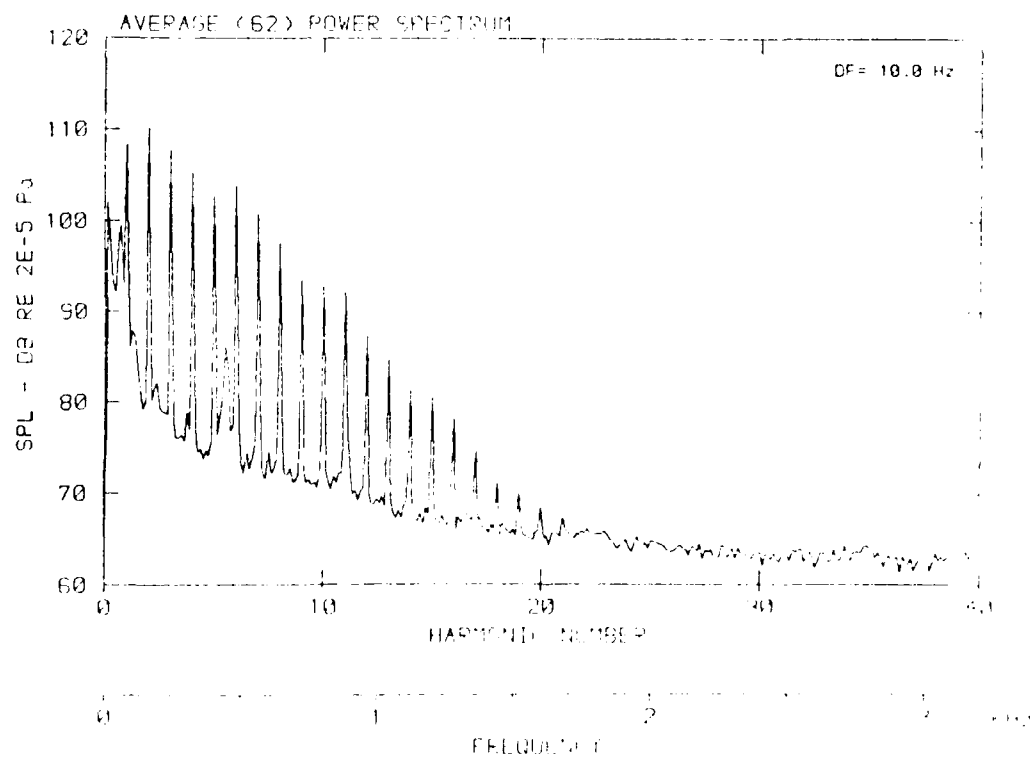
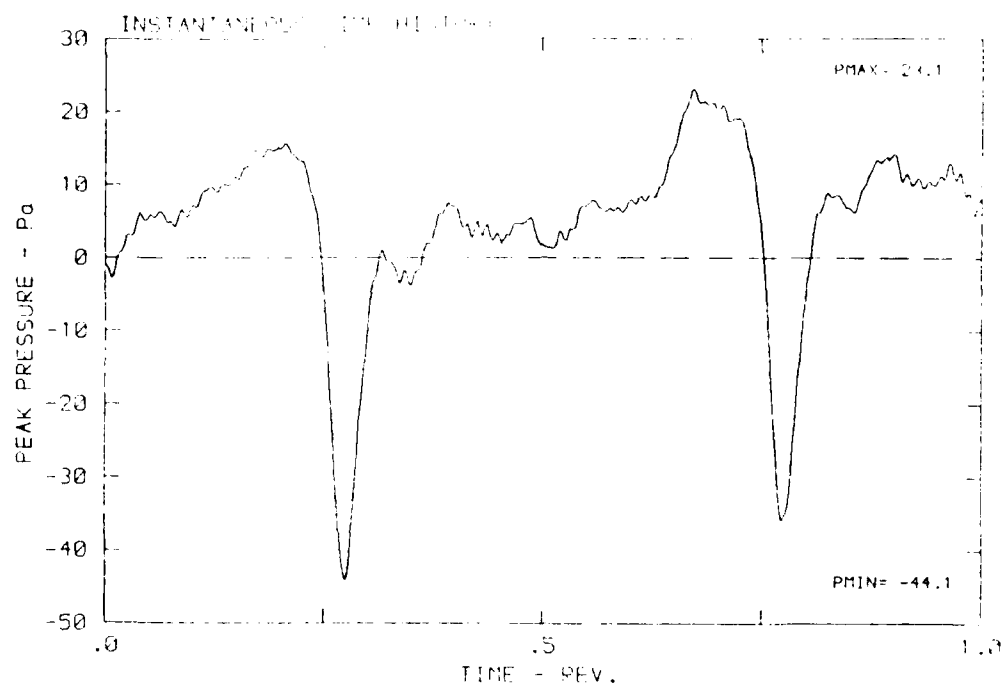
DATA POINT: BC-5 RUN: 72 MP: 1

β : 20.7° MH: .7671 n: 2400 rpm ν : .202 ϕ : .0° T: 286.9 K



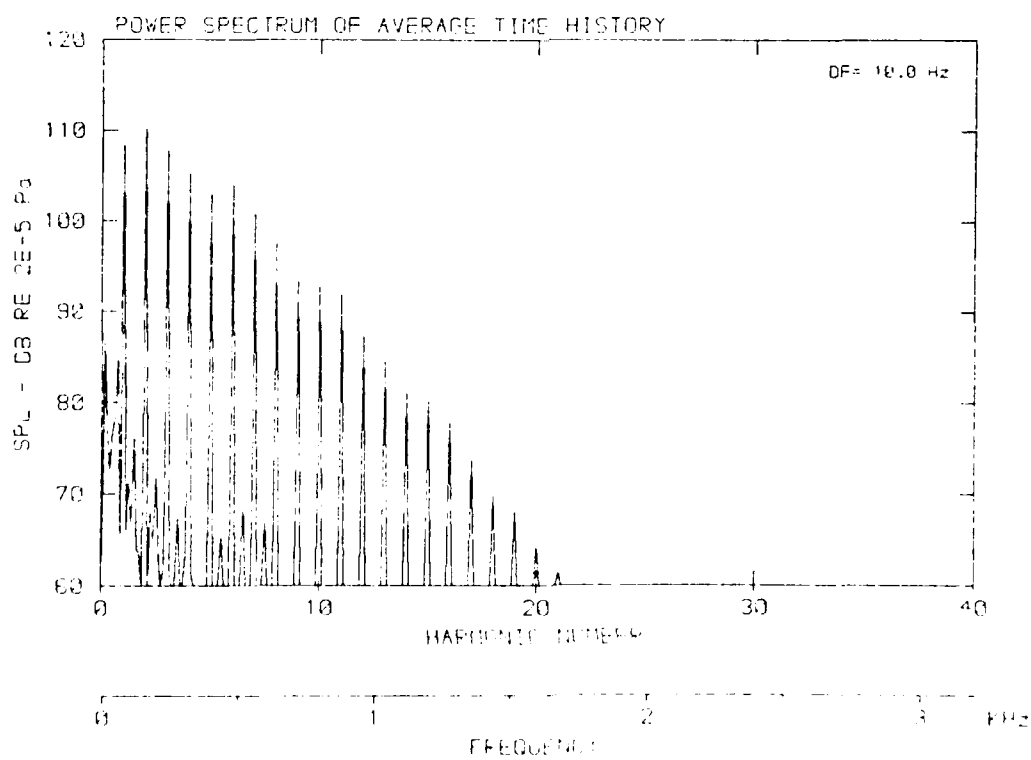
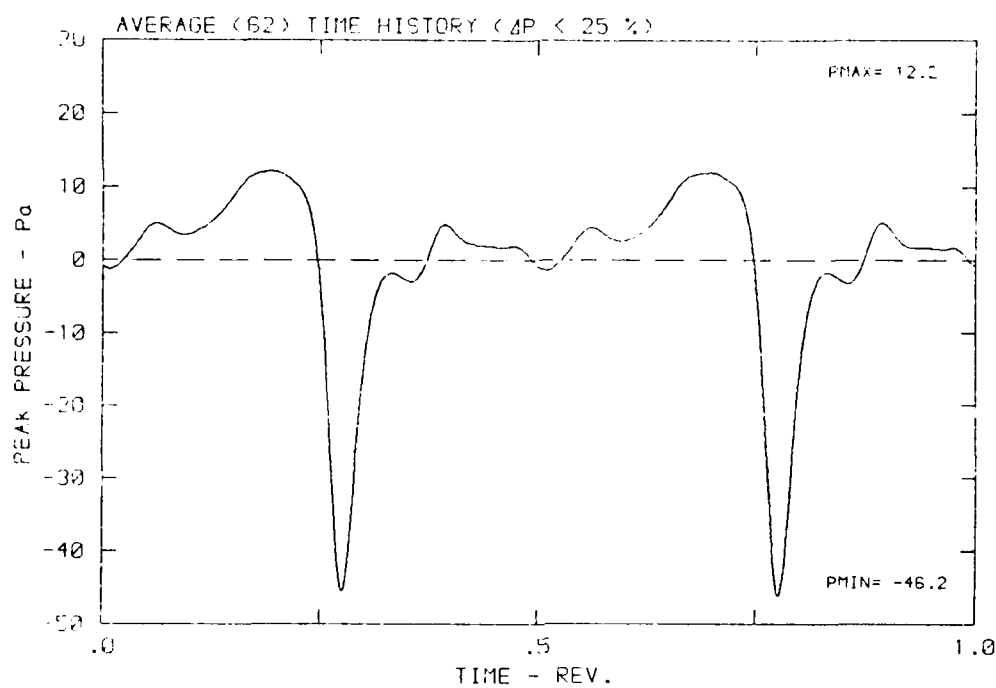
DATA POINT: RC-5 RUN: 112 MP: 2

β : 20.7° MH: .7671 H: .0400 L: .0000 ϕ : .00° T: 185.9 K



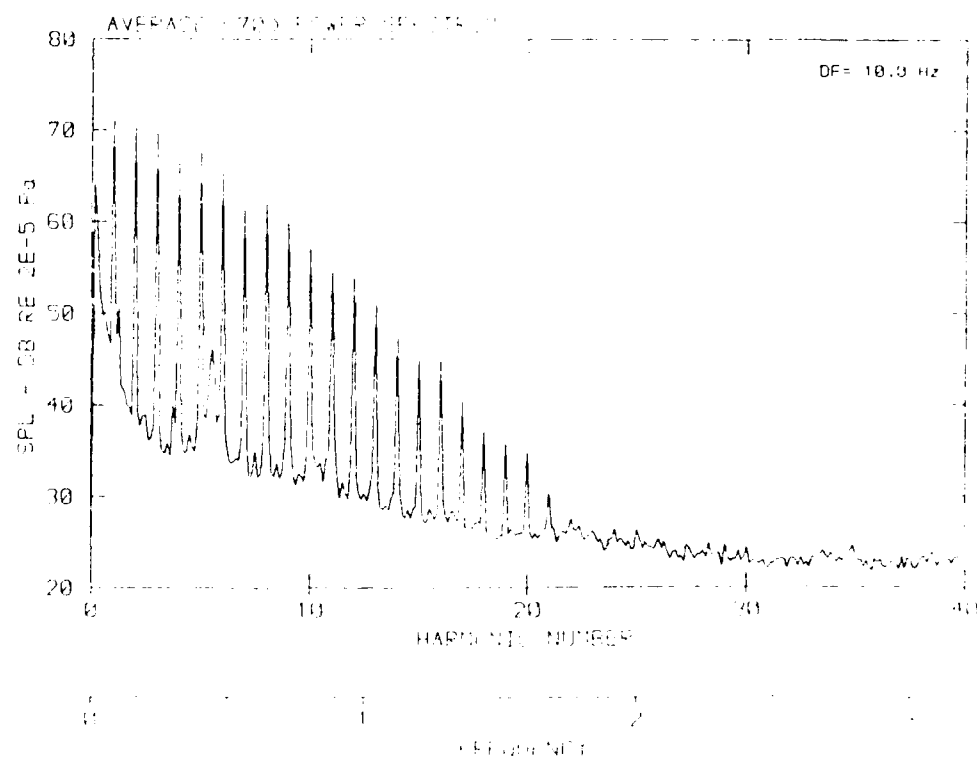
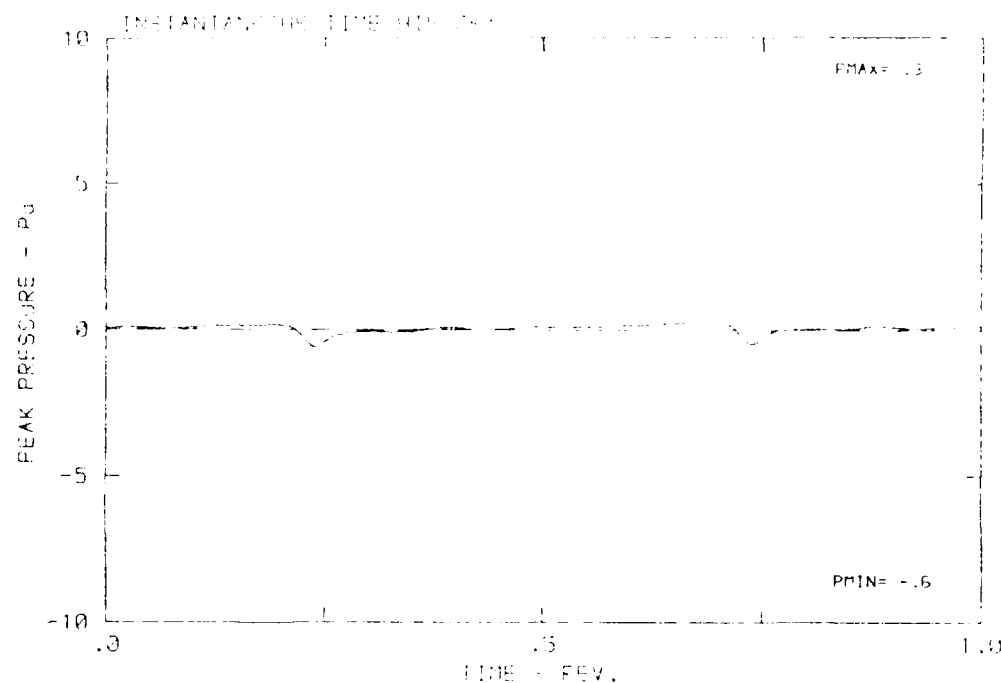
DATA POINT: BC-5 RUN: 72 MP: 2

β : 20.7° MH: .7671 n: 2400 rpm v/u : .202 ϕ : .0° T: 286.9 K



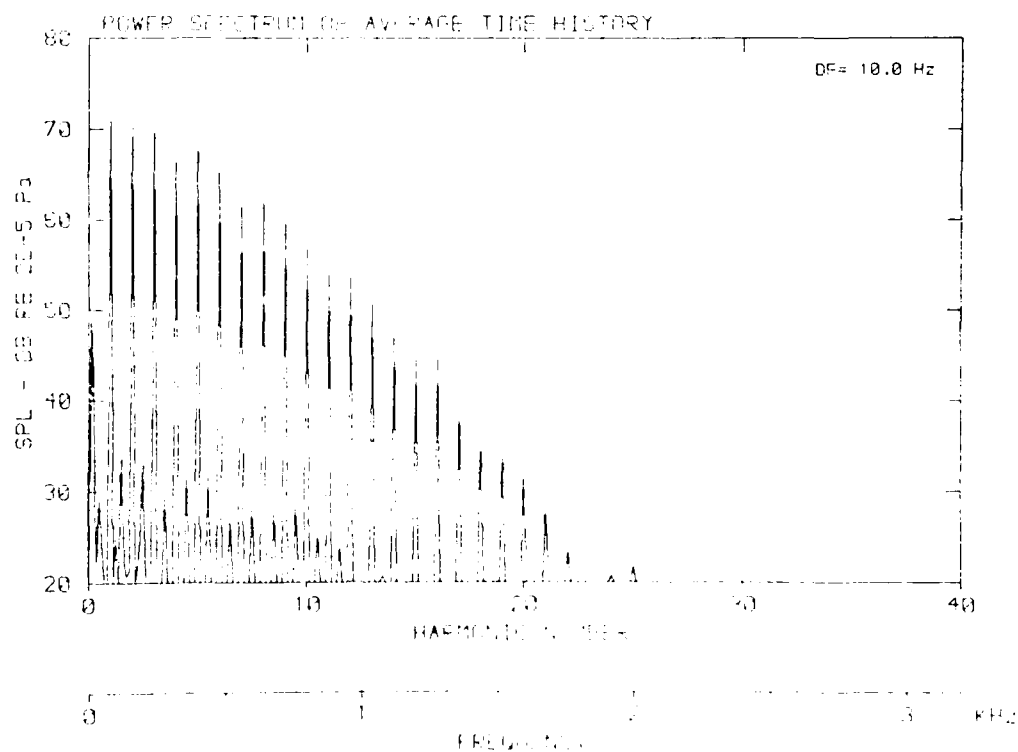
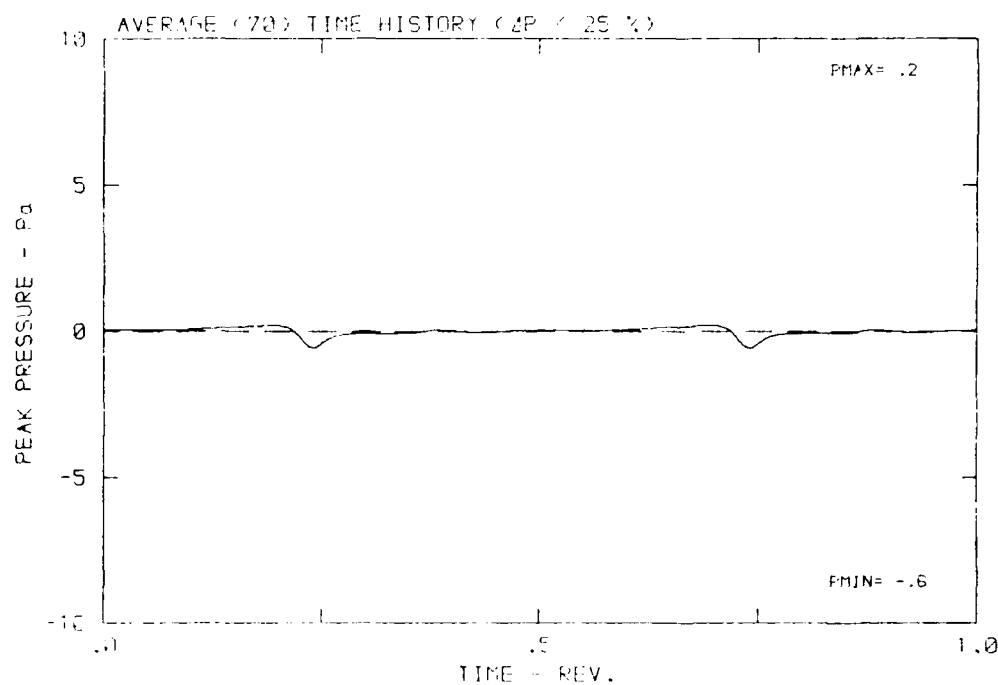
DATA POINT: 8170 RUN: 72 MP: 3

β : 20.7° μ : 1.001 σ : 1.000 γ : 1.000 ϕ : 1.0° θ : 20.9°



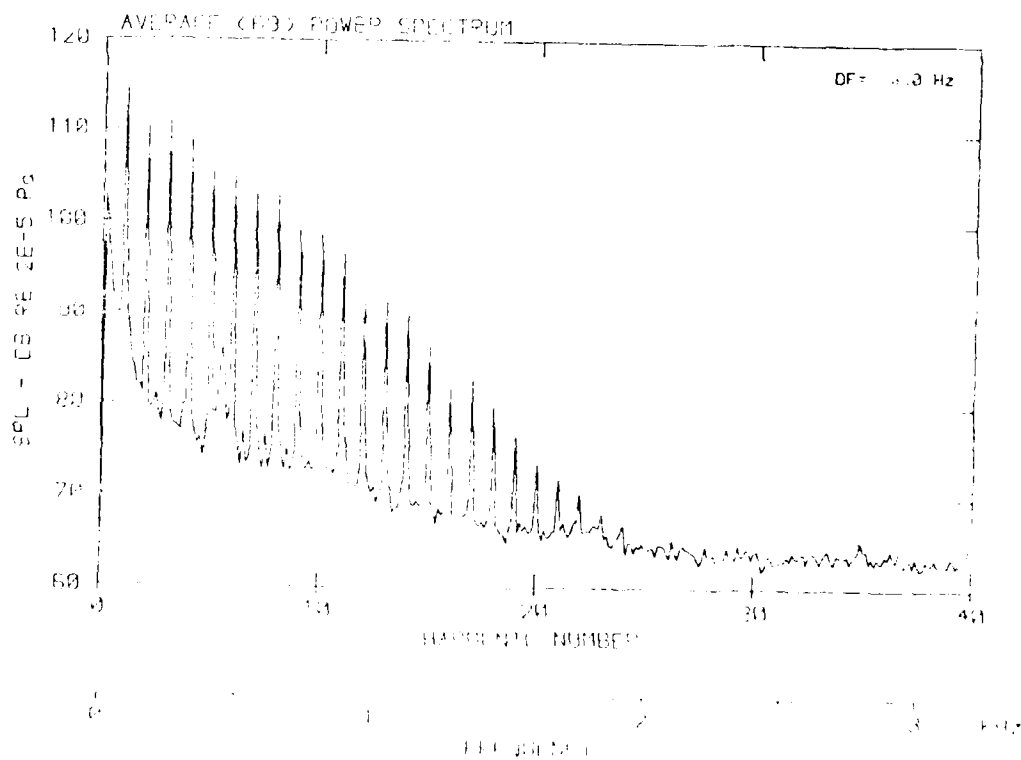
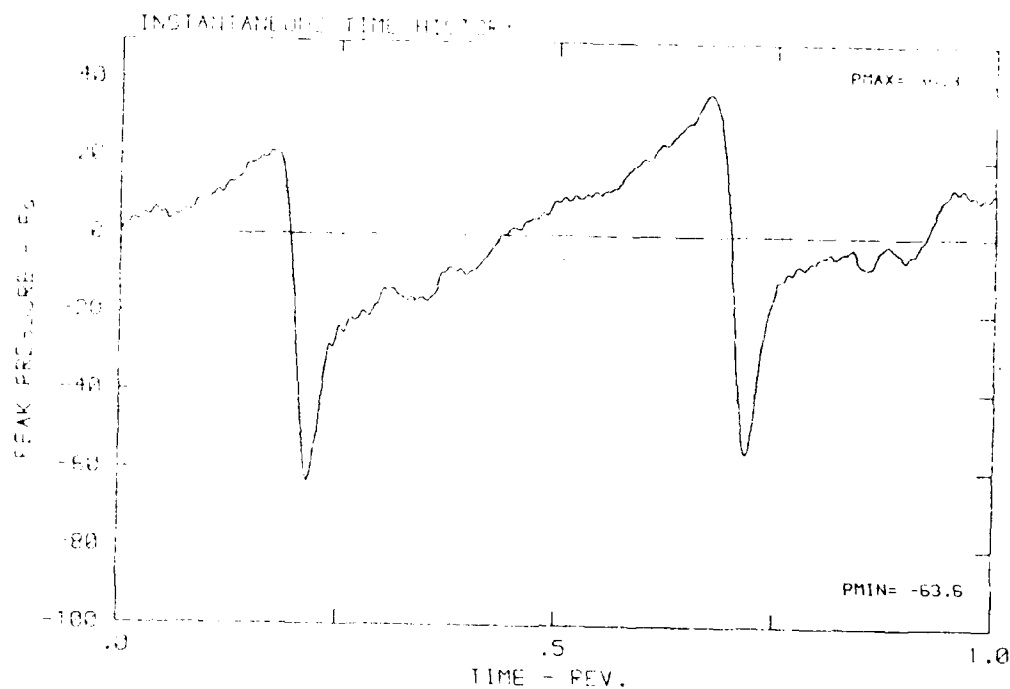
DATA POINT: BC-5 RUN: 72 MP: 3

β : 20.7° MH: .7671 n: 2400 rpm v/u : .202 ϕ : .0° T: 286.9 K



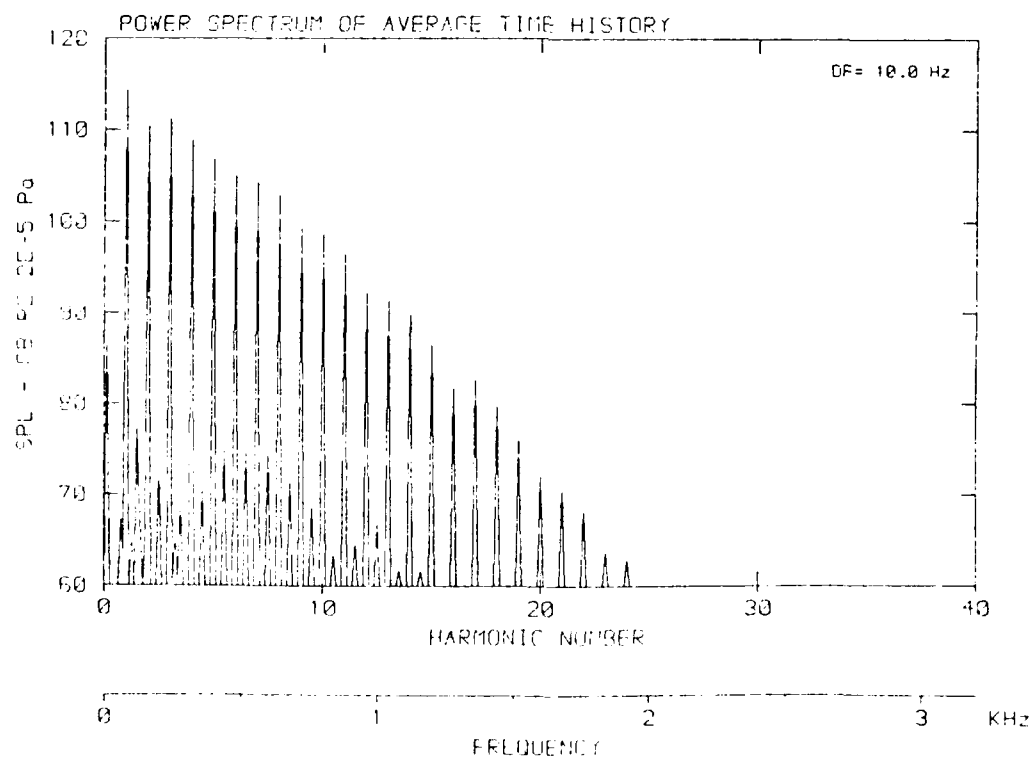
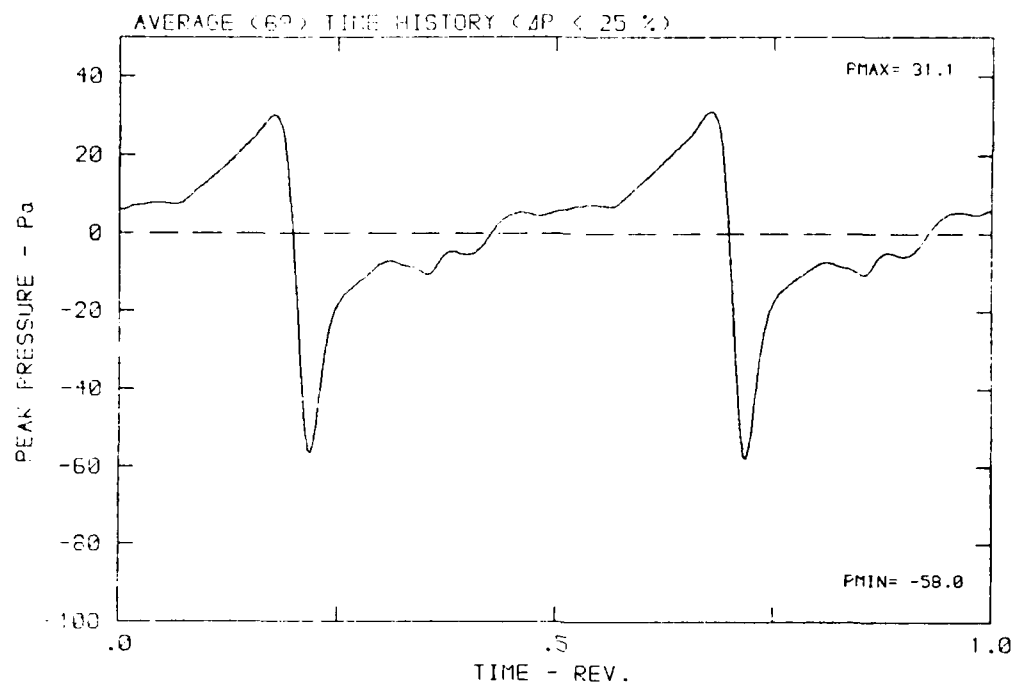
DATA POINT: BC 5 RUN: 72 MP: 4

β : 20.7° ρ : 1.757 n : 2940 rpm γ : 1.00 μ : 1.0° τ : 1.00



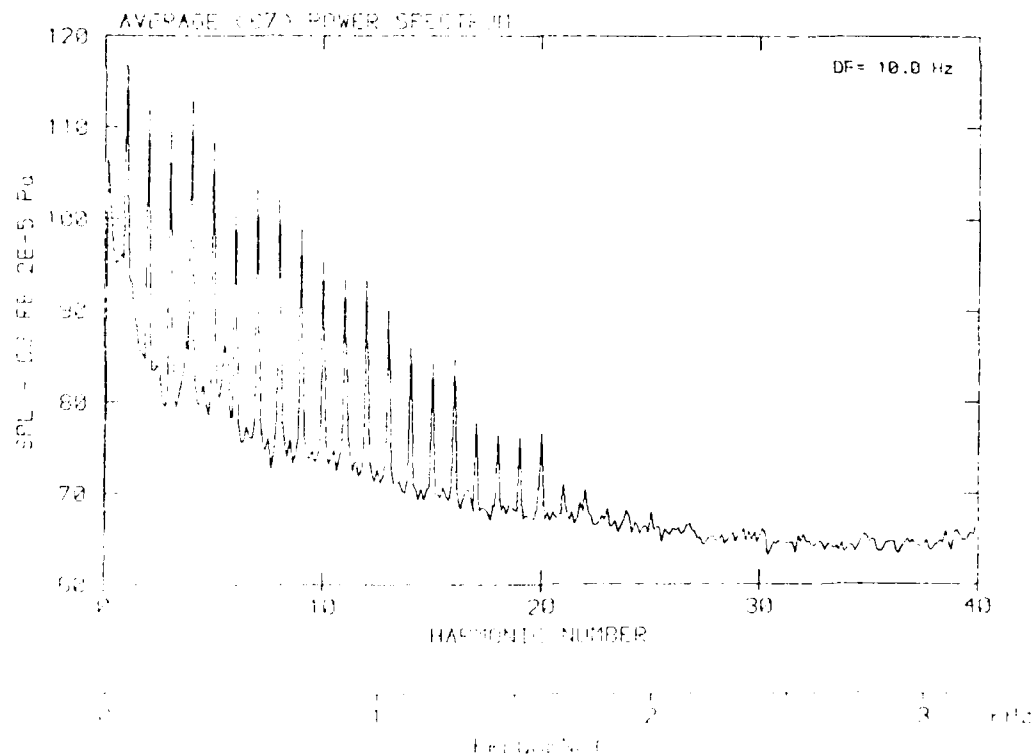
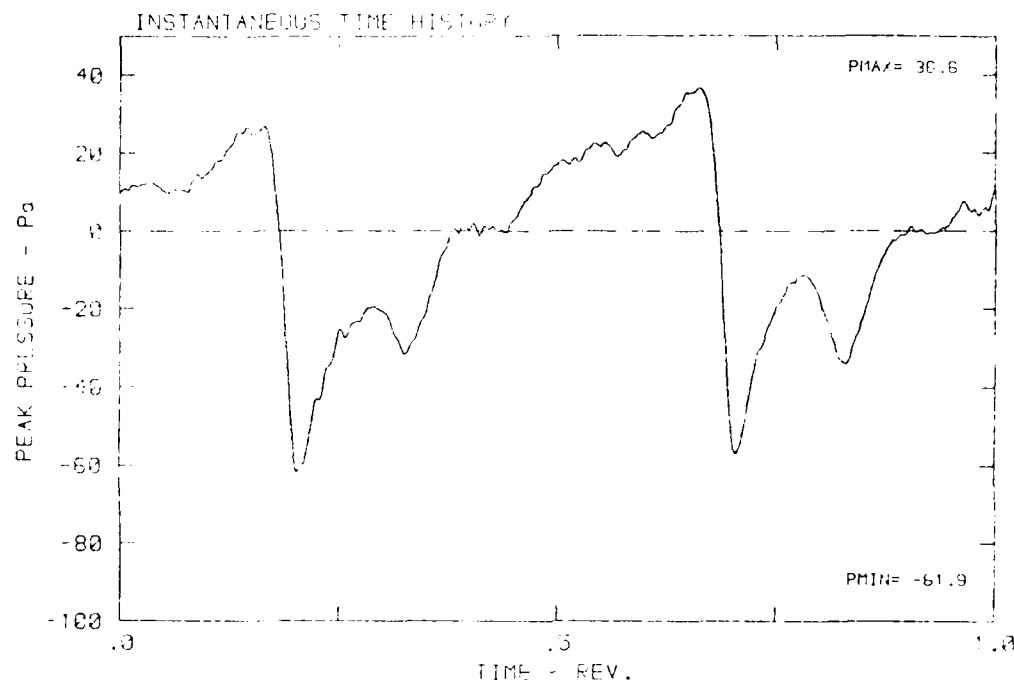
DATA POINT: BC-5 RUN: 72 MP: 4

β : 20.7° MH: .7671 n: 2400 rpm v/u : .202 ϕ : .0° T: 286.9 K



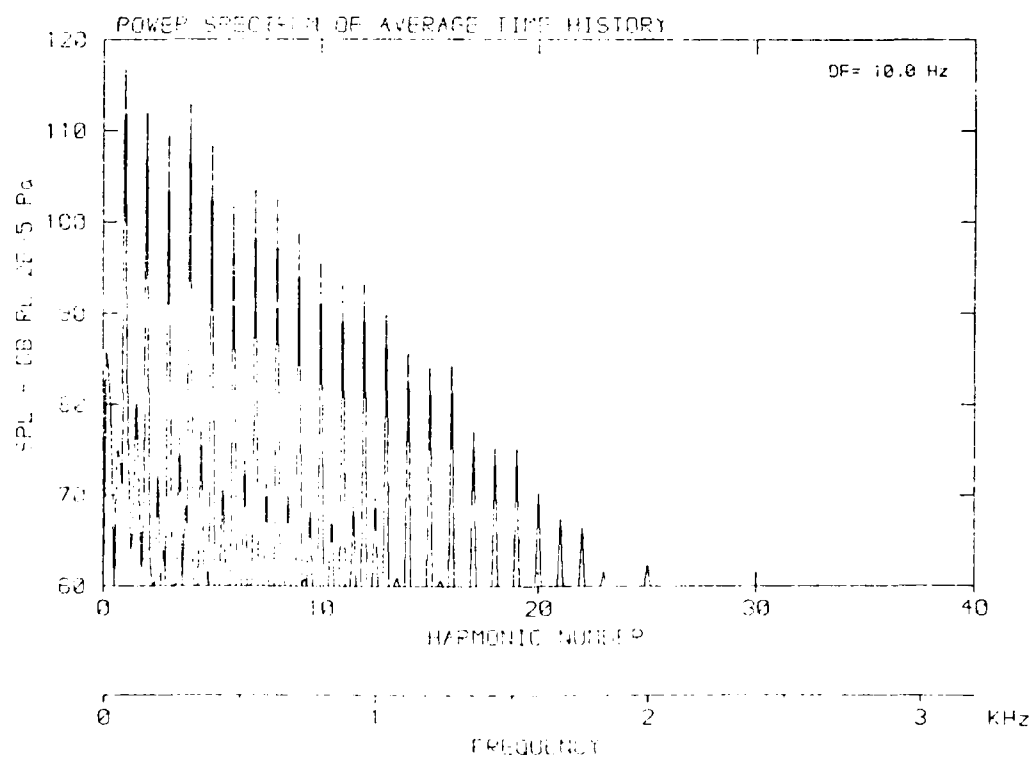
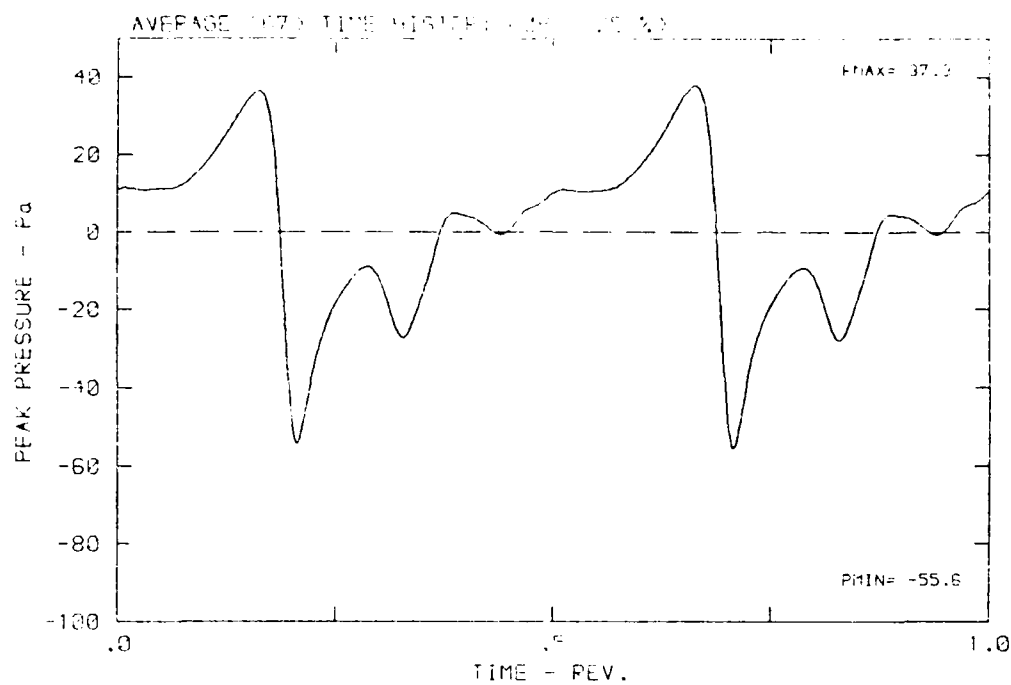
DATA POINT: BC-5 RUN: 72 MP: 5

β : 20.7° MH: .7671 n: 2400 rpm v/u: .202 ϕ : .0° T: 225.9 K



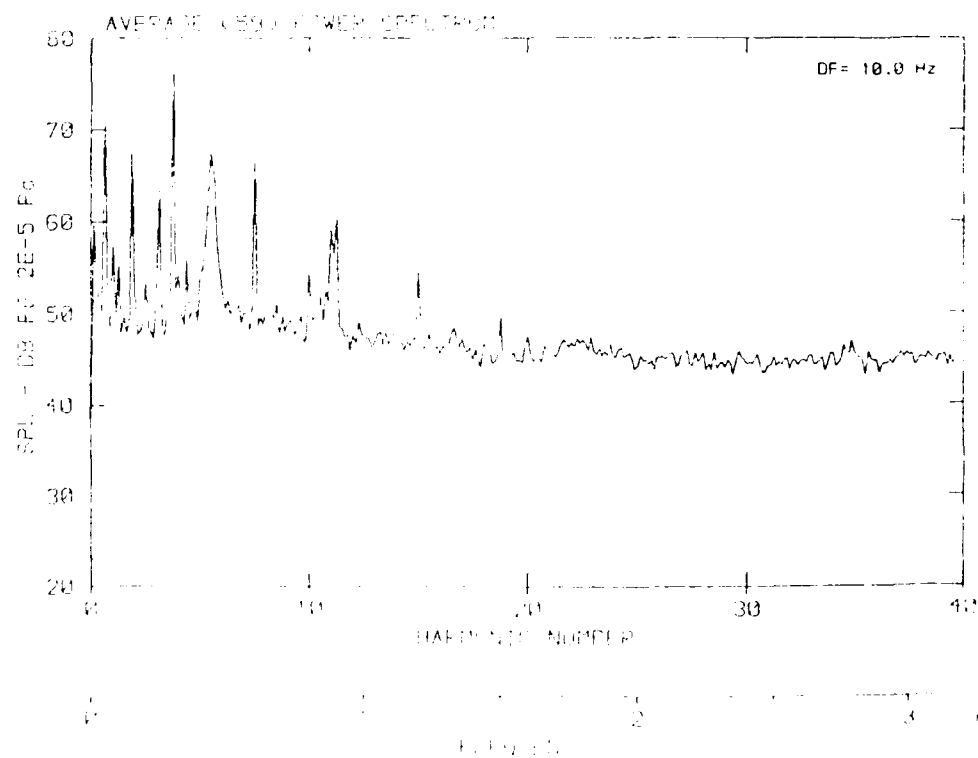
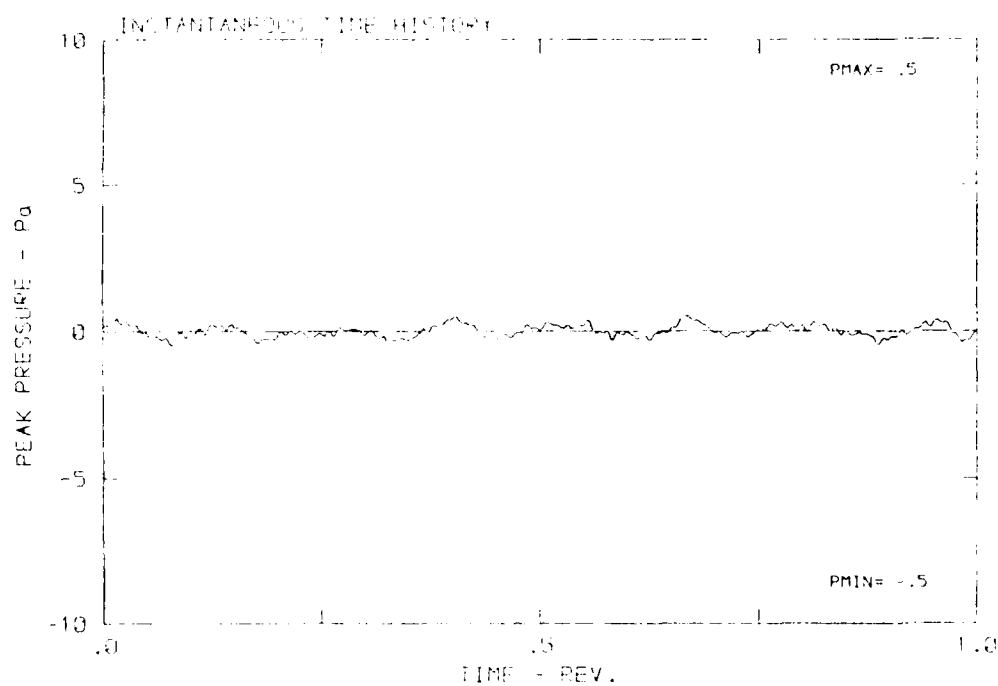
DATA POINT: 60.5 FREQ: 7.0 MP: 5

β : 20.7° MH: .7671 n: 2400 rpm μ : .002 ρ : 1.03 T: 295.9 K



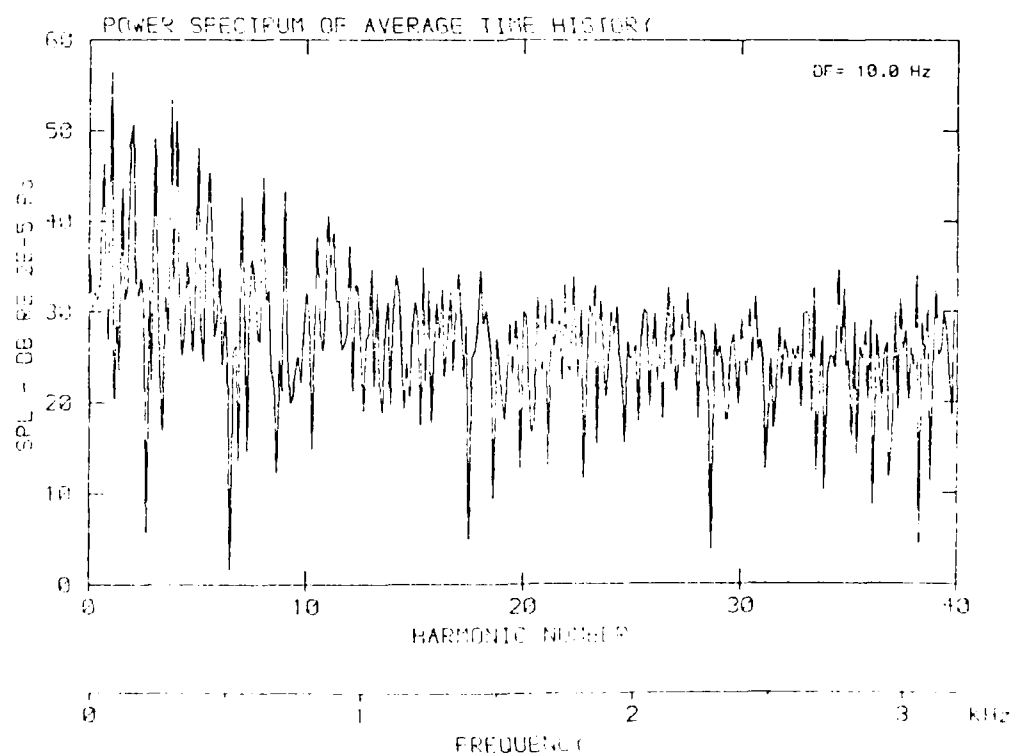
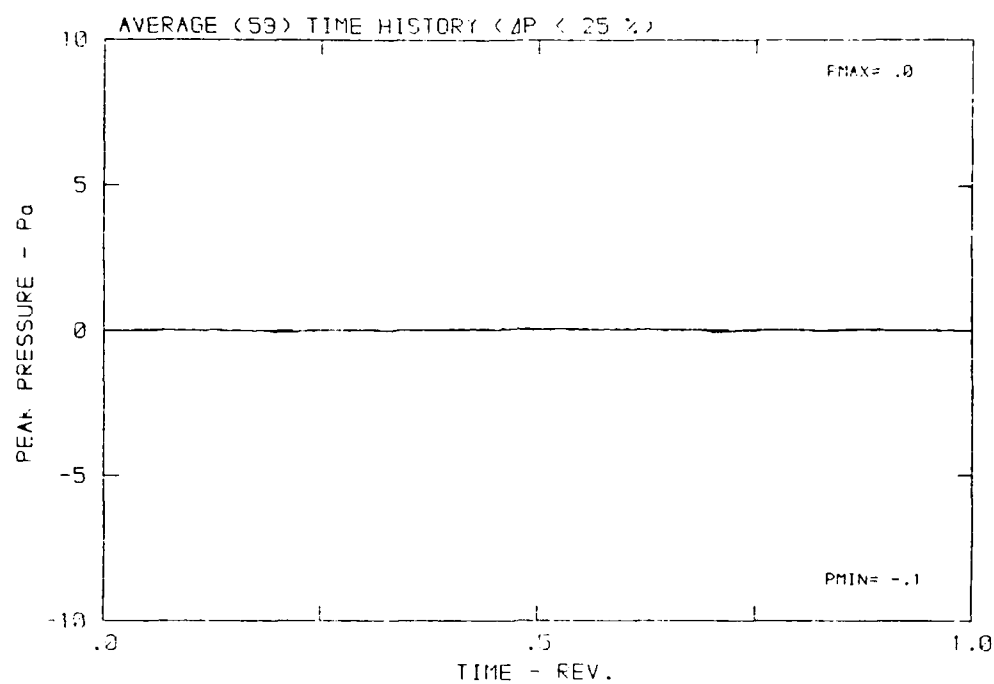
DATA POINTS: 60-45 RUN: 77 NP: 4

β : 20.7° θ : 1.75° n : 24.00 rpm v : 0.207 ϕ : .0° T : 100.0°



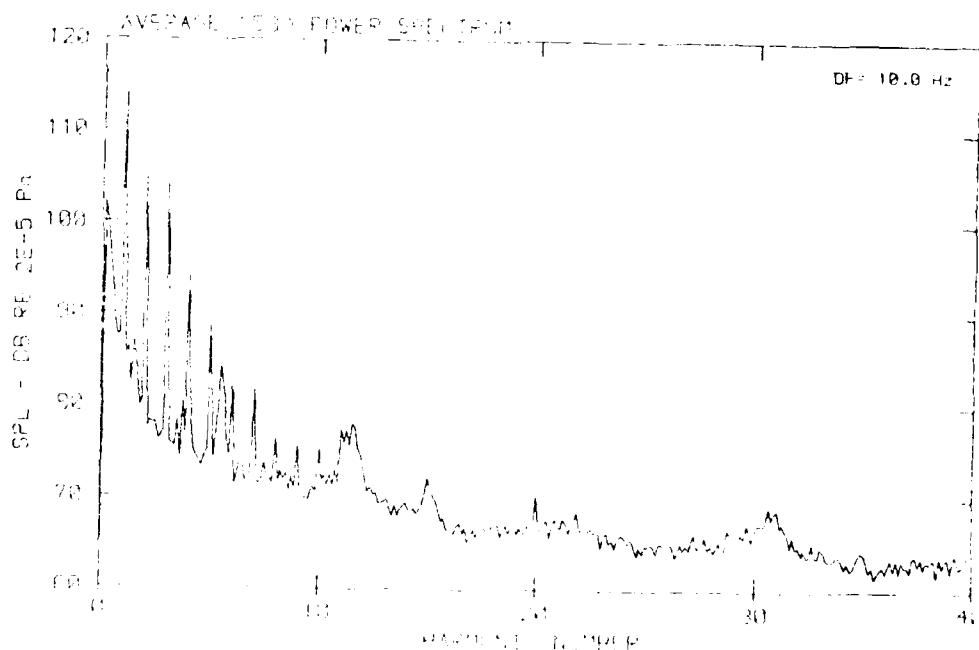
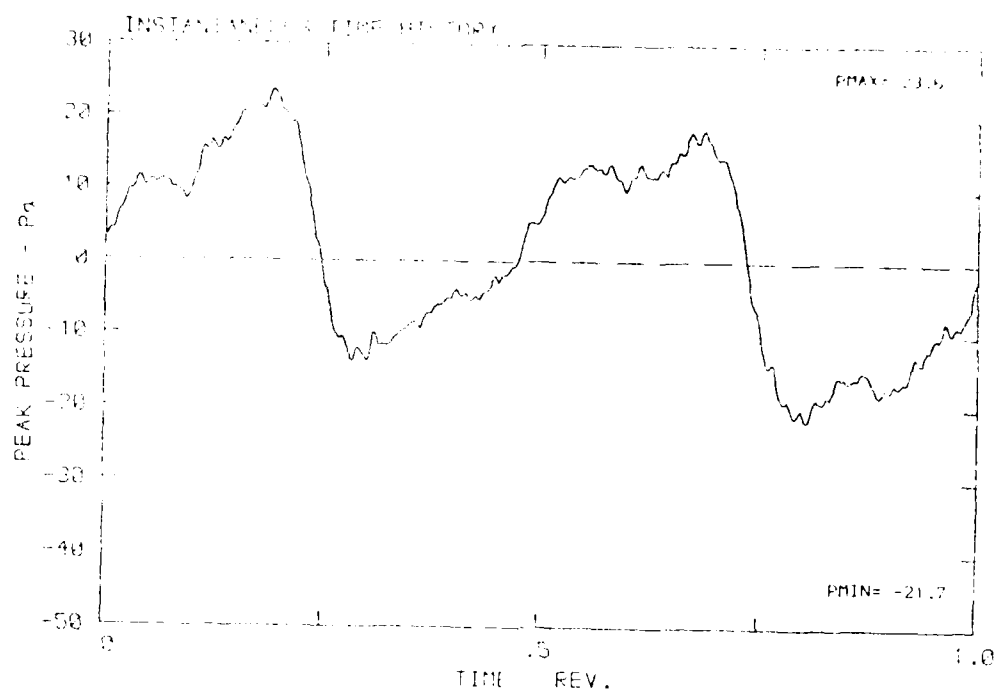
DATA POINT: BC-5 RUN: 72 MP: 6

β : 20.7° MH: .7671 n: 2400 rpm v/u: .202 ϕ : .0° T: 286.9 K



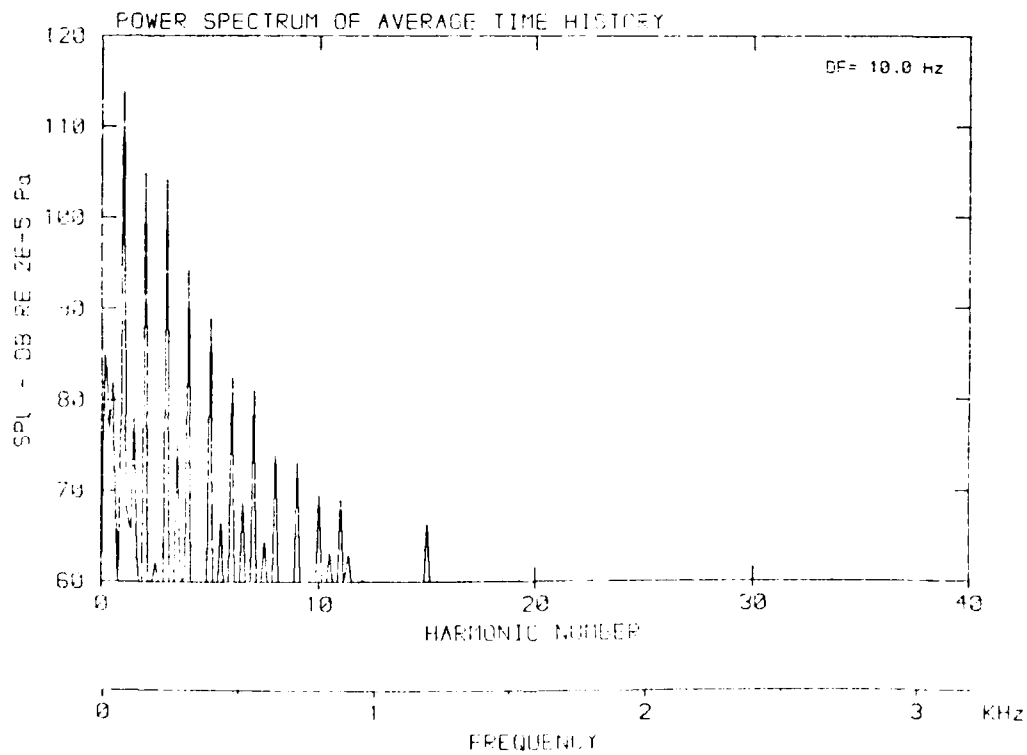
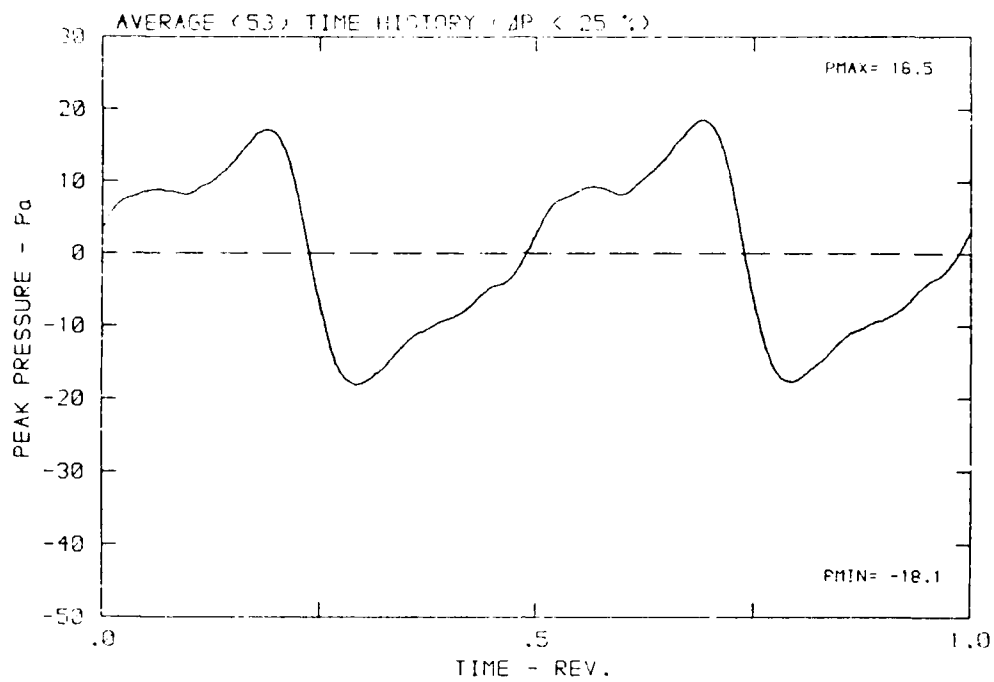
DATA POINT: BC-5 FUN: 70 MP: 7

β : 20.7° RH: .7671 n: 2400 rpm vru: .200 a: .00 f: 5.0



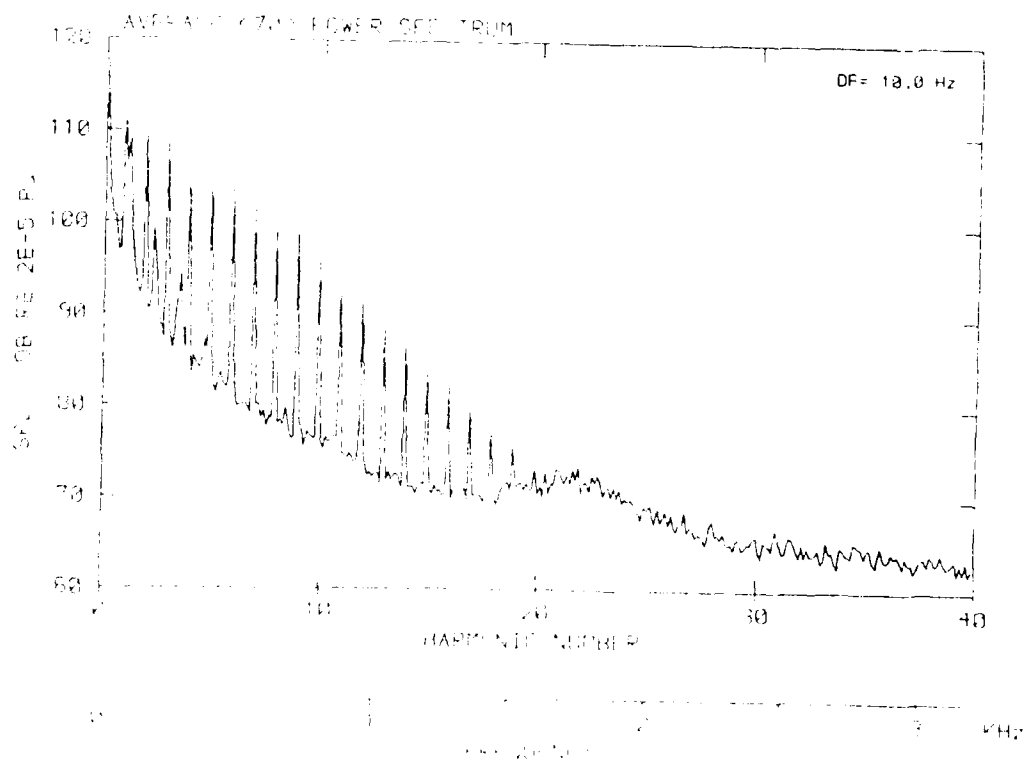
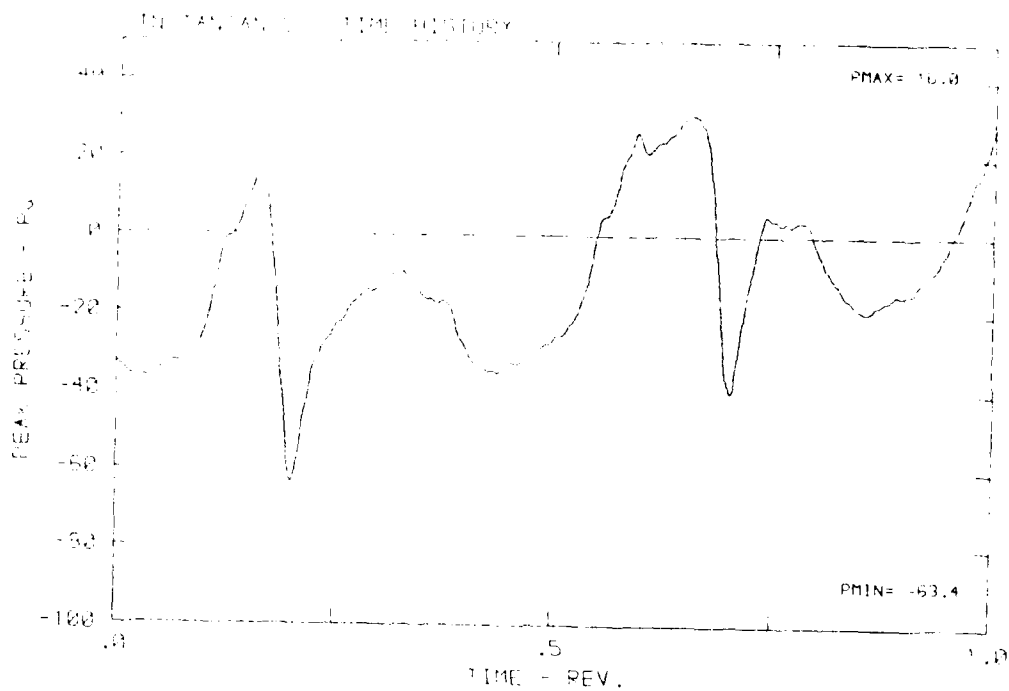
DATA POINT: BC-5 RUN: 72 MP: 7

β : 20.7° MH: .7671 n: 2400 rpm v/u : .202 ϕ : .0° T: 286.9 K



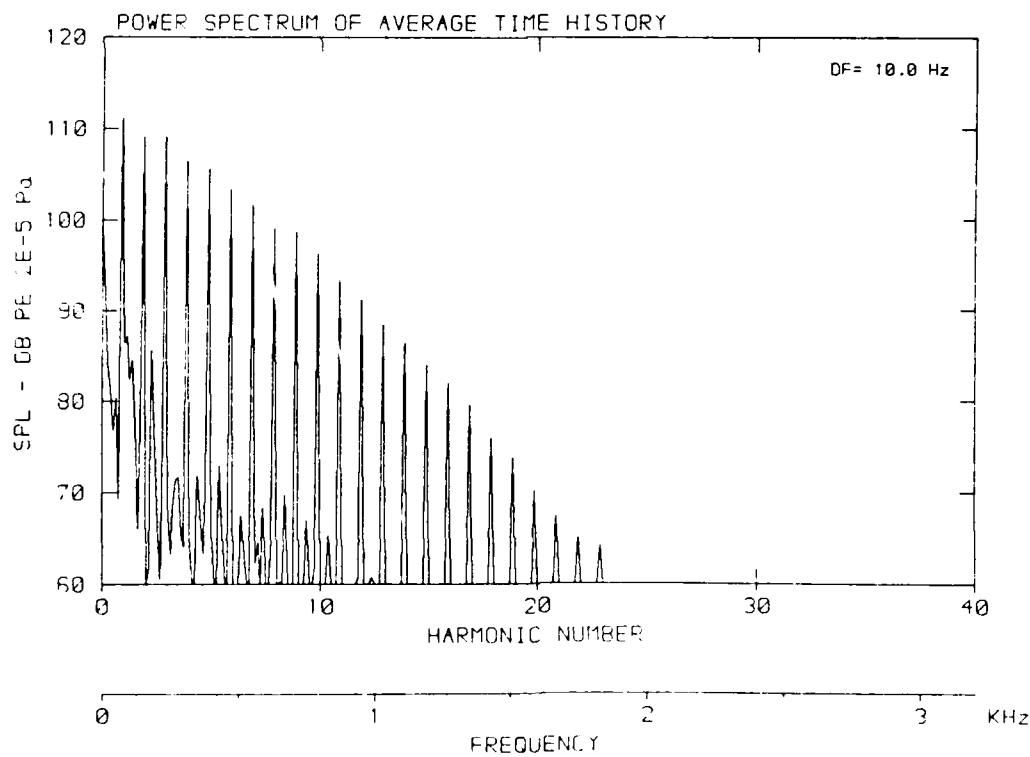
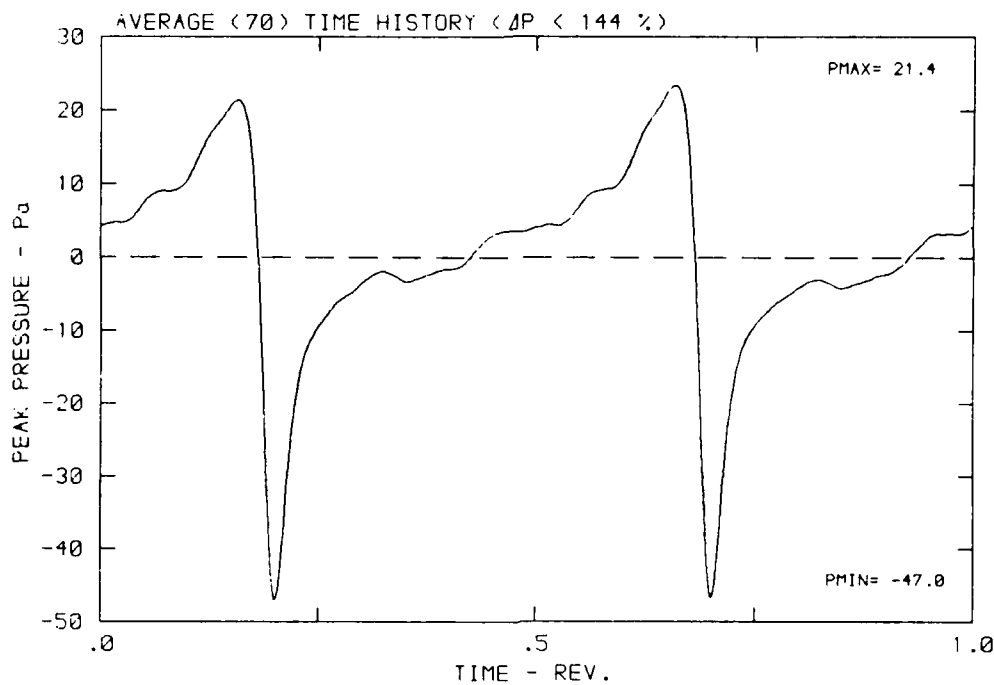
DATA POINTS: 603 RUN: 72 MP: 0

β : 20.7% μ : 1.79 α : 2400 Hz ν_{LO} : 1.202 ϕ : .00 T: 1.85.0 K

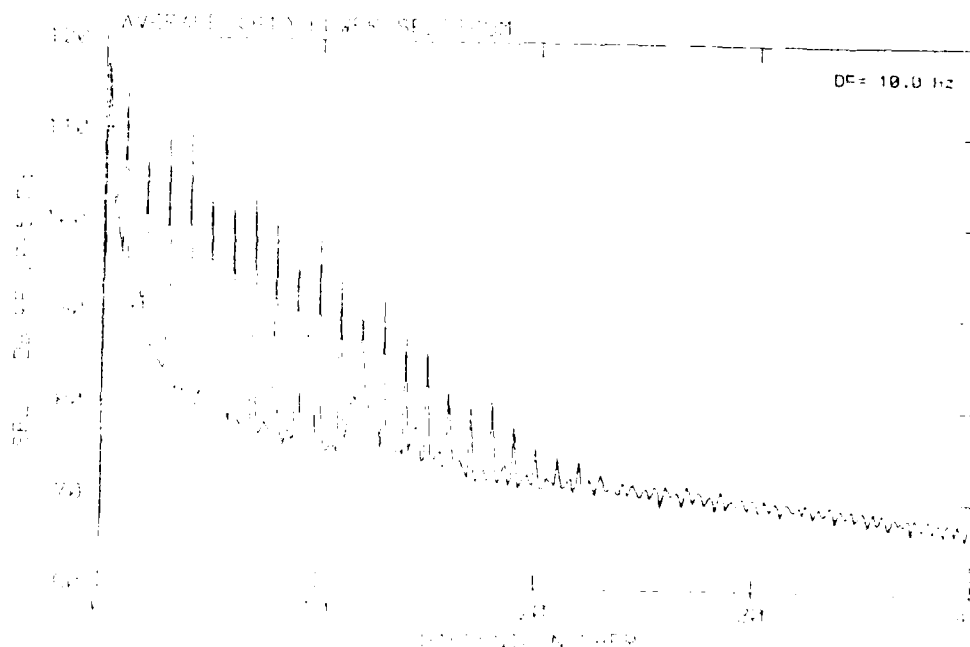
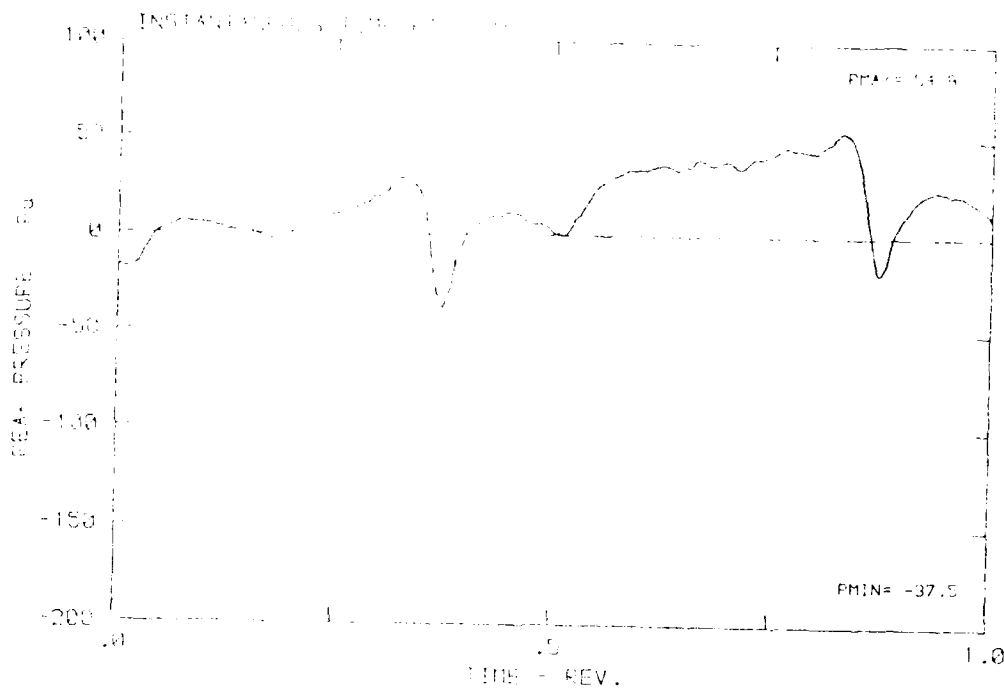


DATA POINT: BC-5 RUN: 72 MP: 8

β : 20.7° MH: .7671 n: 2400 rpm v/u: .202 ϕ : .0° T: 286.9 K



β : 20.10° μ : 100.01° σ : 1.40 Å ρ : 1.001 g/cm³ χ : 1.00° ω : 1.00° τ : 100.00°

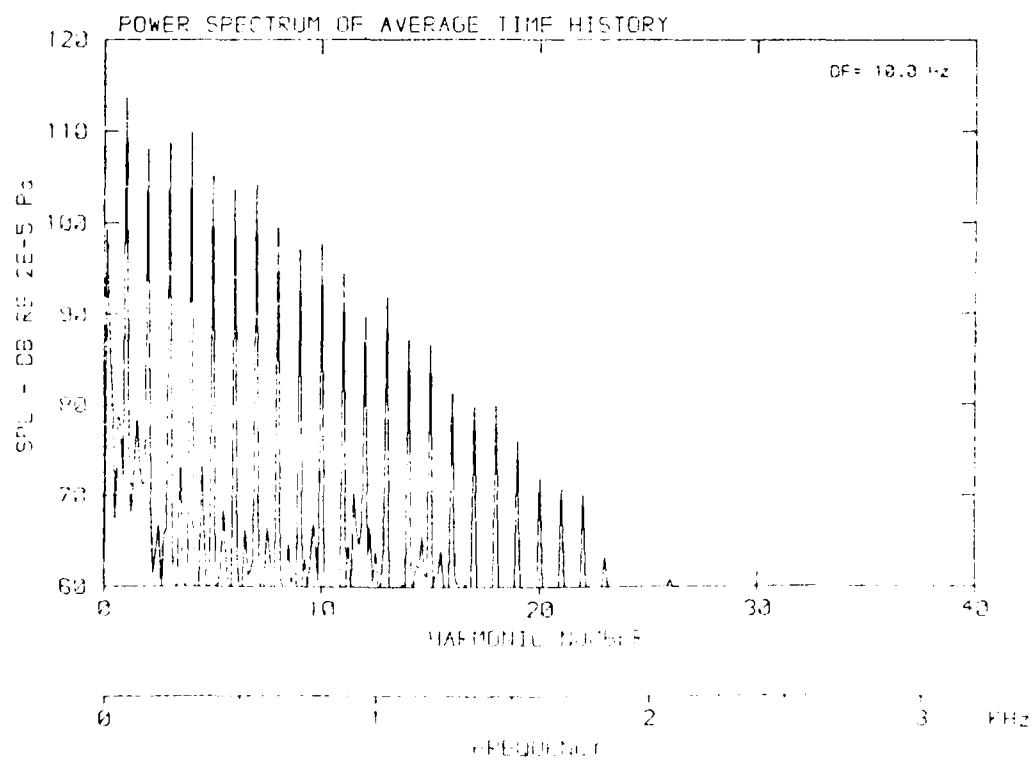
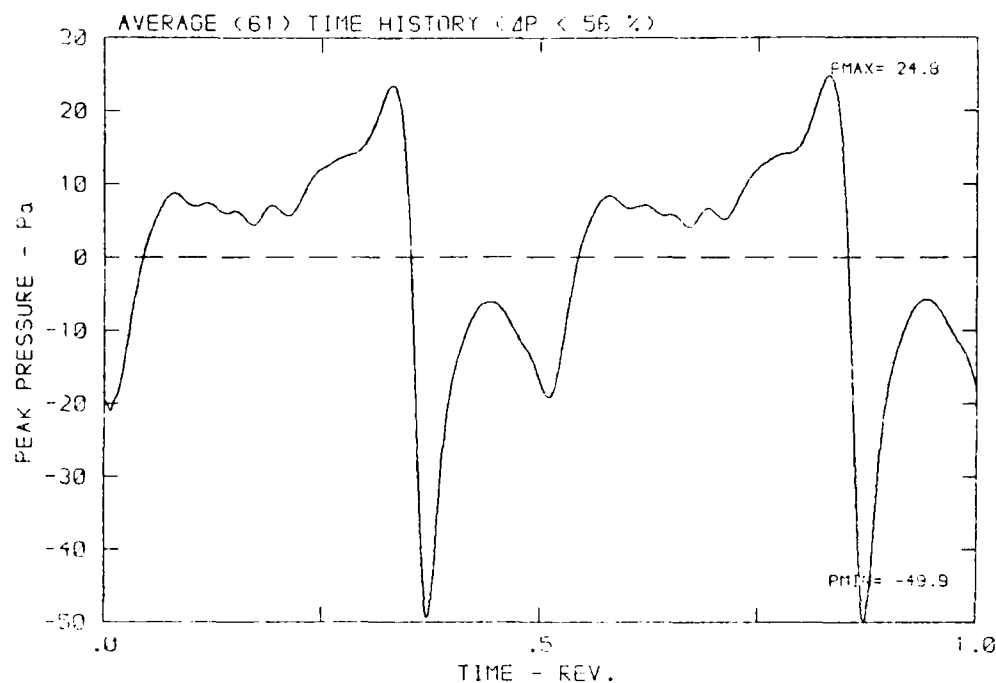


1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Arar and Collins (1971).

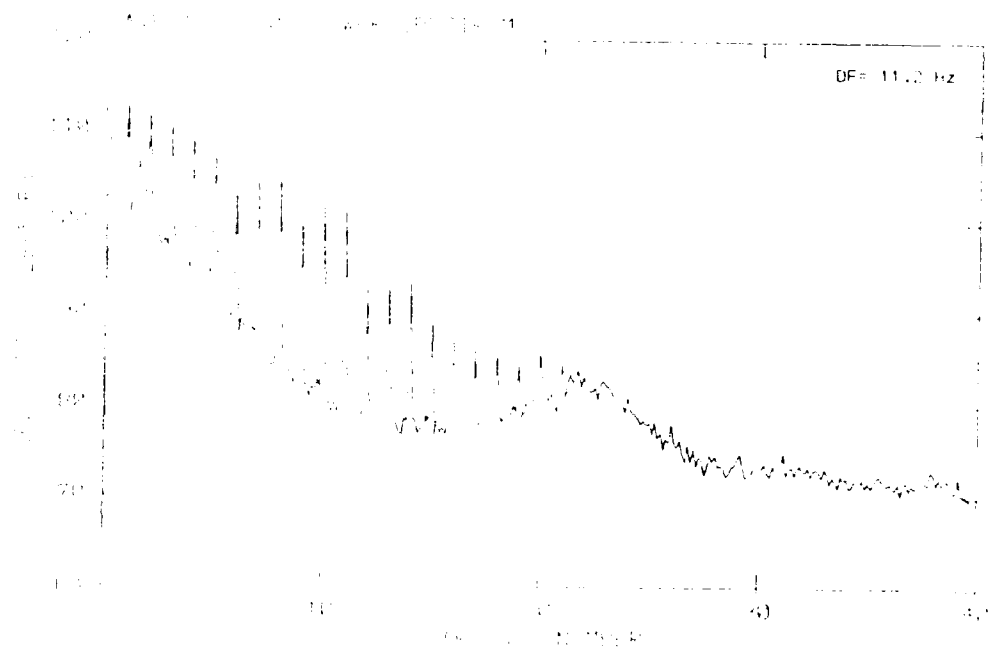
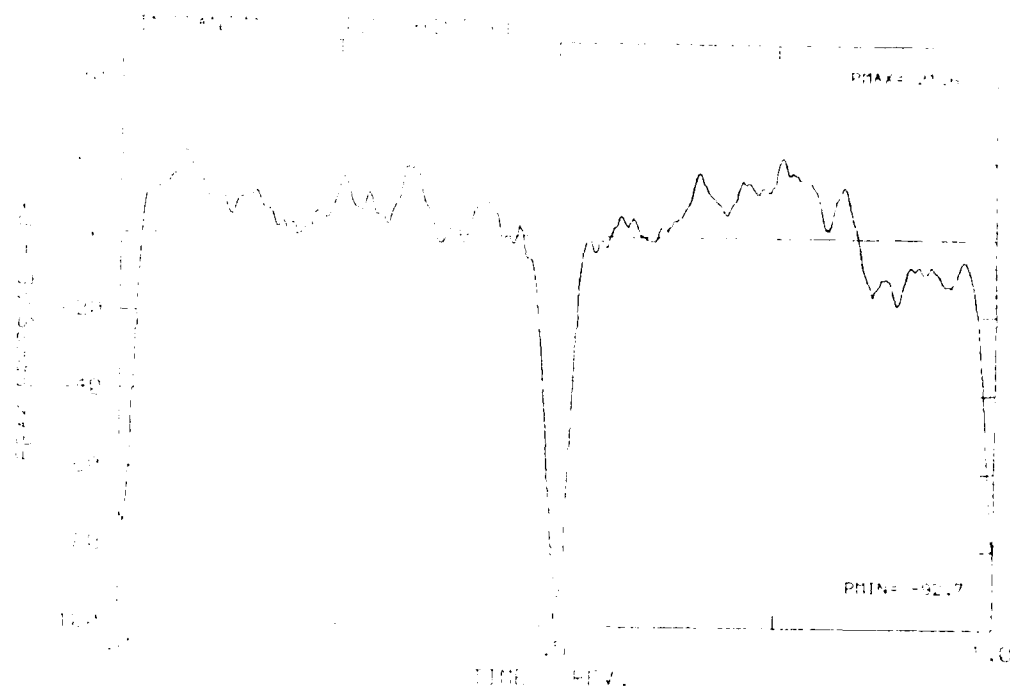
1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

DATA POINT: BC-5 RUN: 72 MP: 9

β : 20.7° NH: .7671 n: 2400 rpm v/u : .202 ϕ : .0° T: 286.9 K

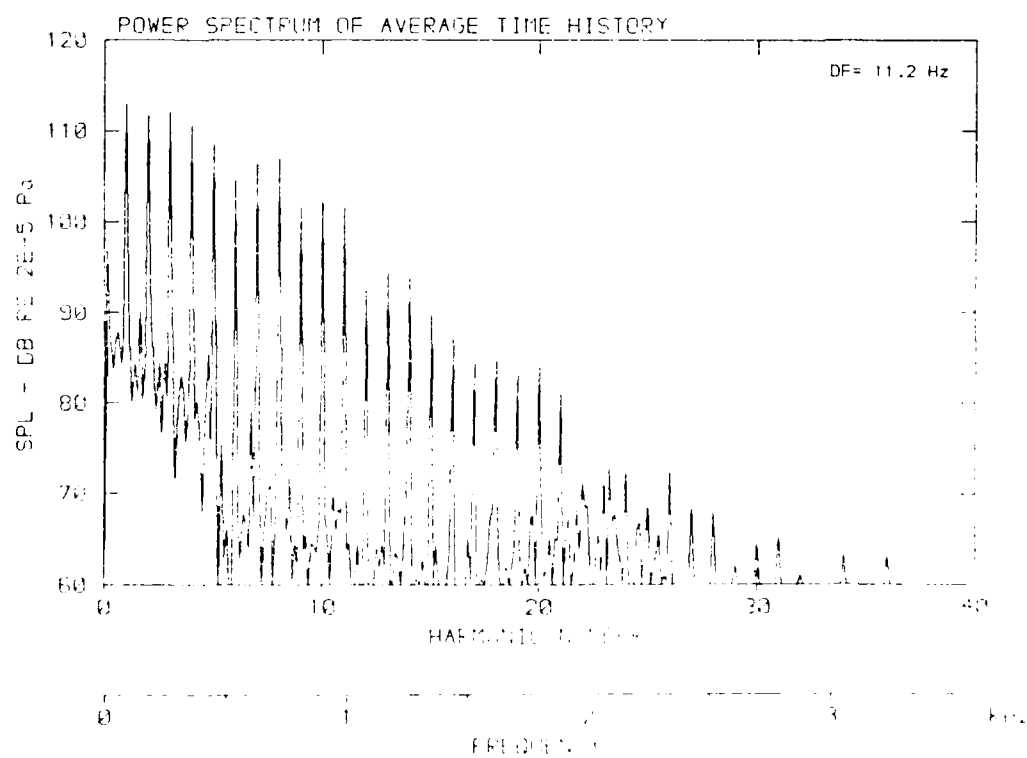
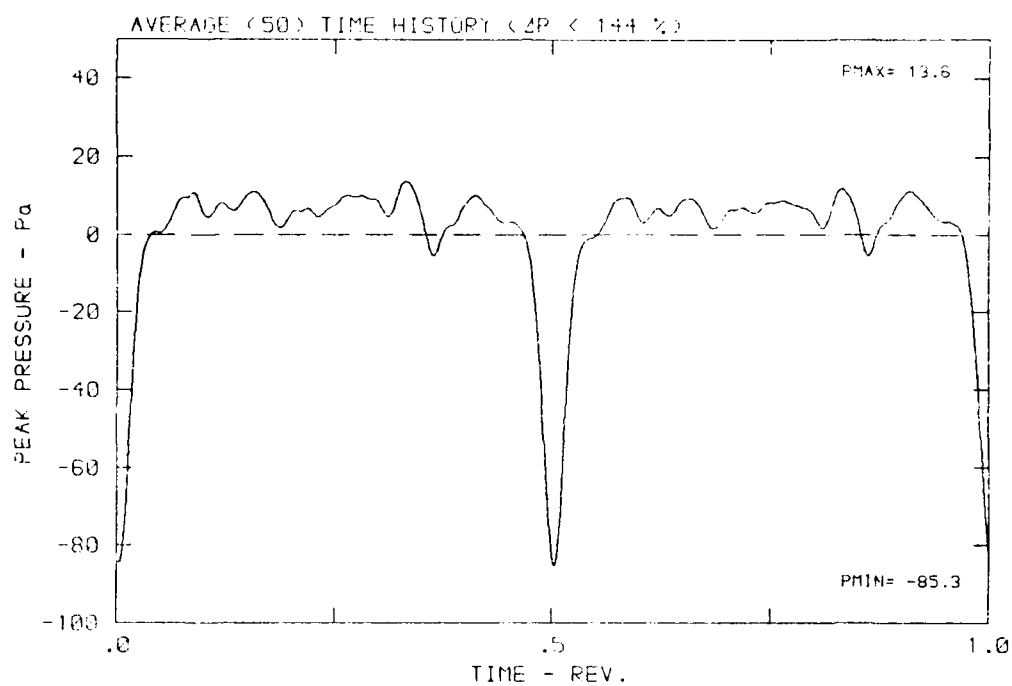


β : $\frac{1}{\sigma^2}$, γ : $\frac{\mu}{\sigma^2}$, δ : $\frac{\tau}{\sigma^2}$, η : $\frac{\alpha}{\sigma^2}$, θ : $\frac{\lambda}{\sigma^2}$



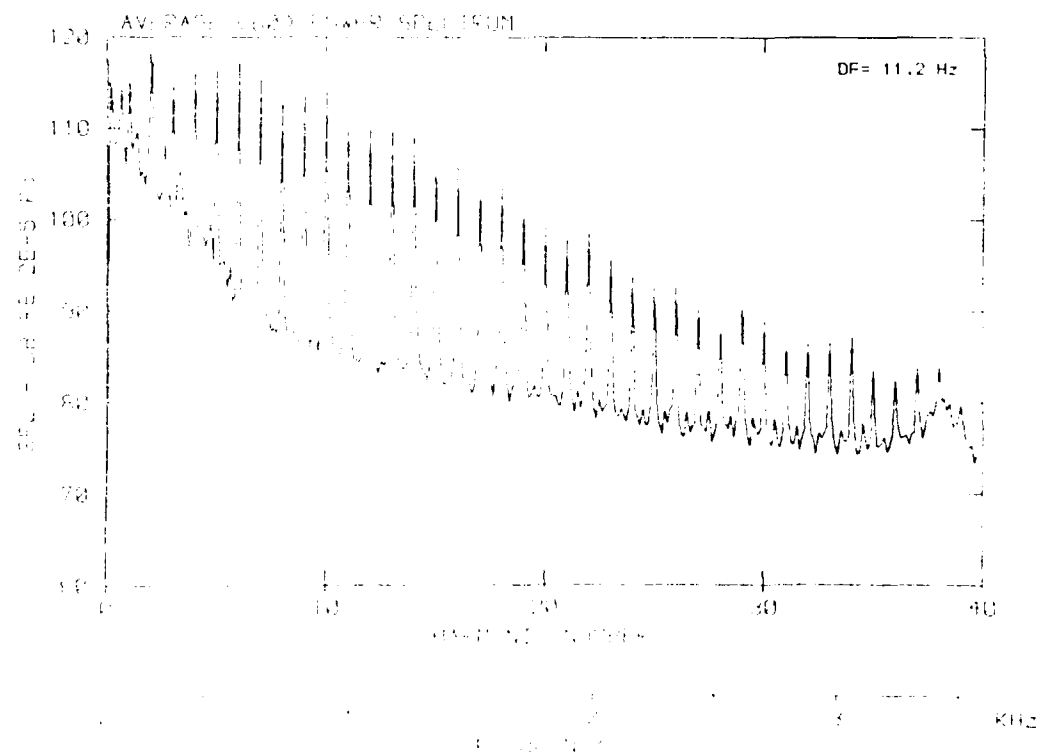
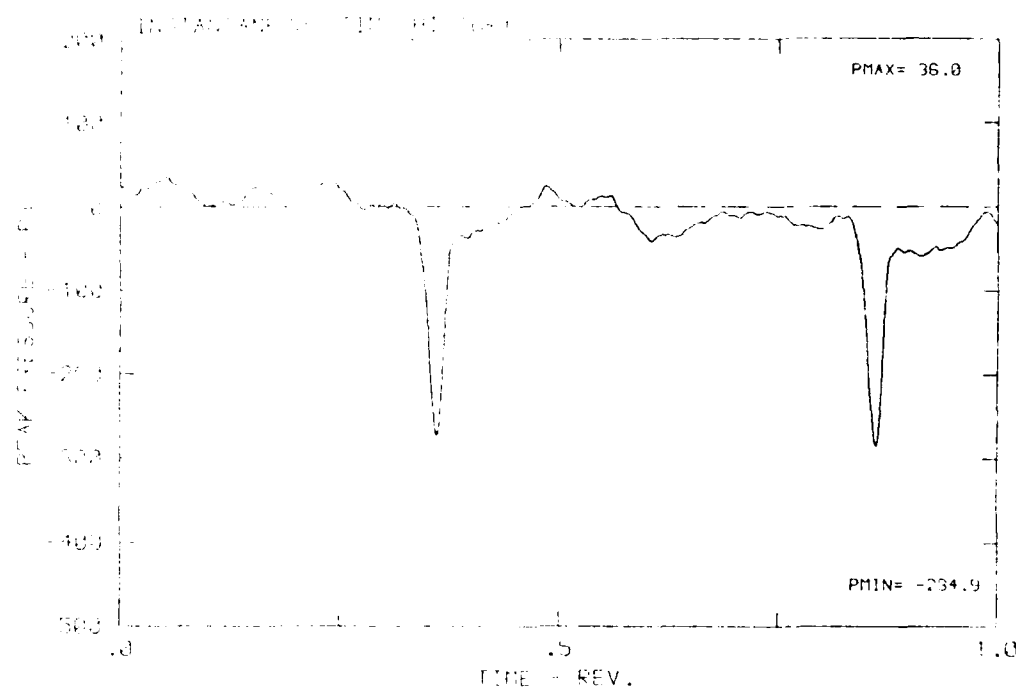
DATA POINT: BC-6 RUN: 70 MP: 1

β : 20.7° MH: .8775 n: 2700 rpm v/u : .268 ϕ : .0° T: 295.8 K



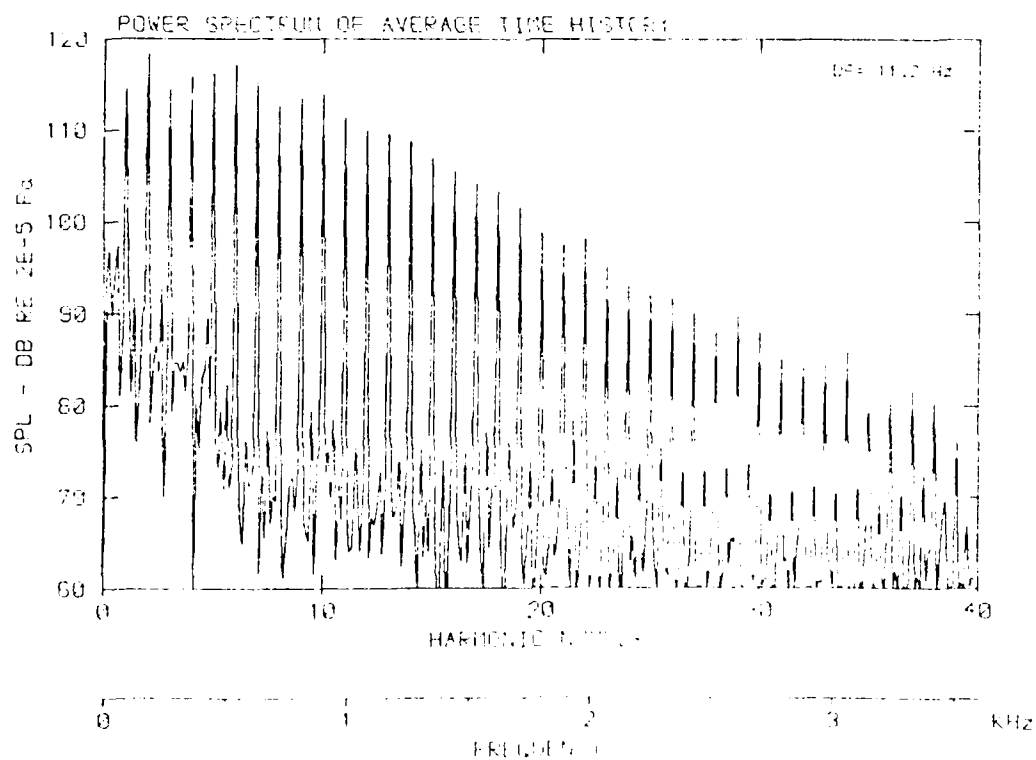
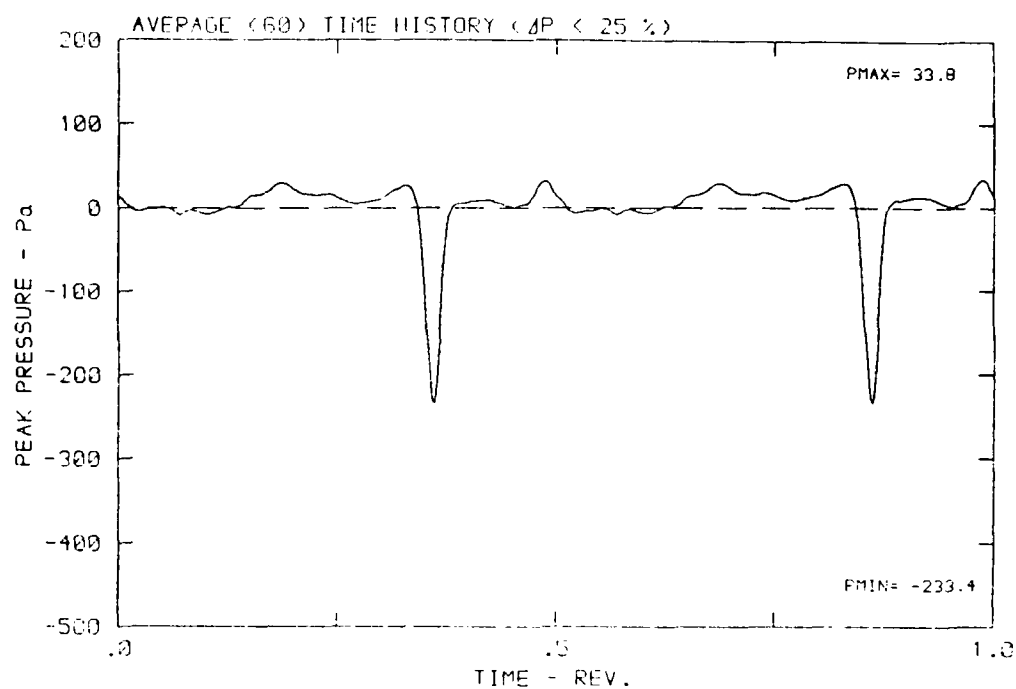
DATA PRINT: 1000 RUN: 70 MP: 2

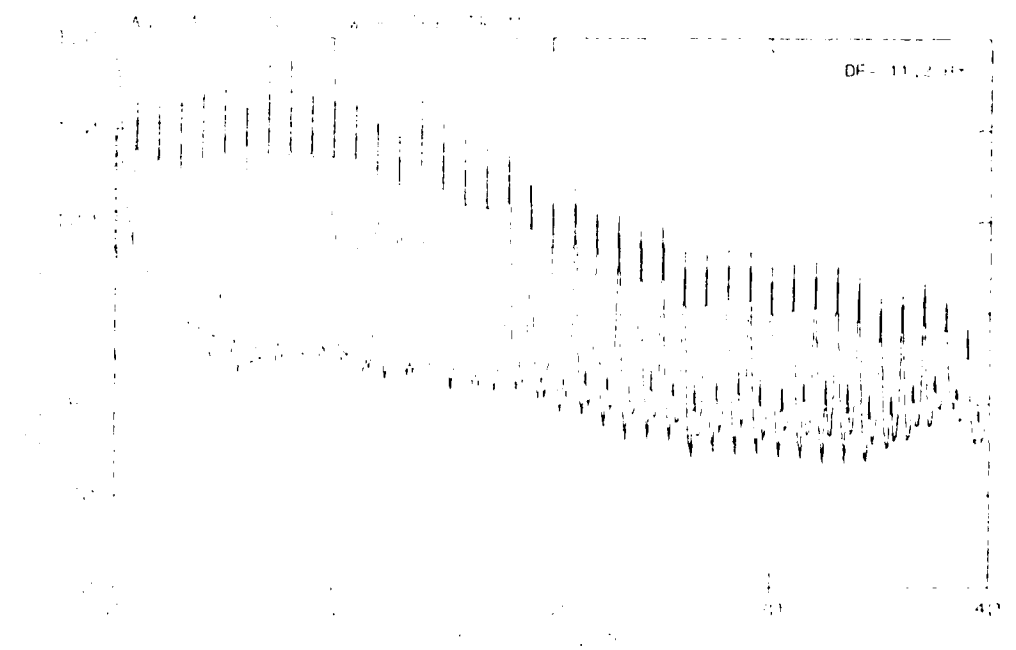
β : 0.17 γ : 1.7 δ : 1.1 ϵ : 1.0 ζ : 1.0 η : 1.0 θ : 1.0 ϕ : 1.0 ψ : 1.0 ω : 1.0 ν : 1.0 μ : 1.0 λ : 1.0



DATA POINT: BC-6 RUN: 70 MP: 2

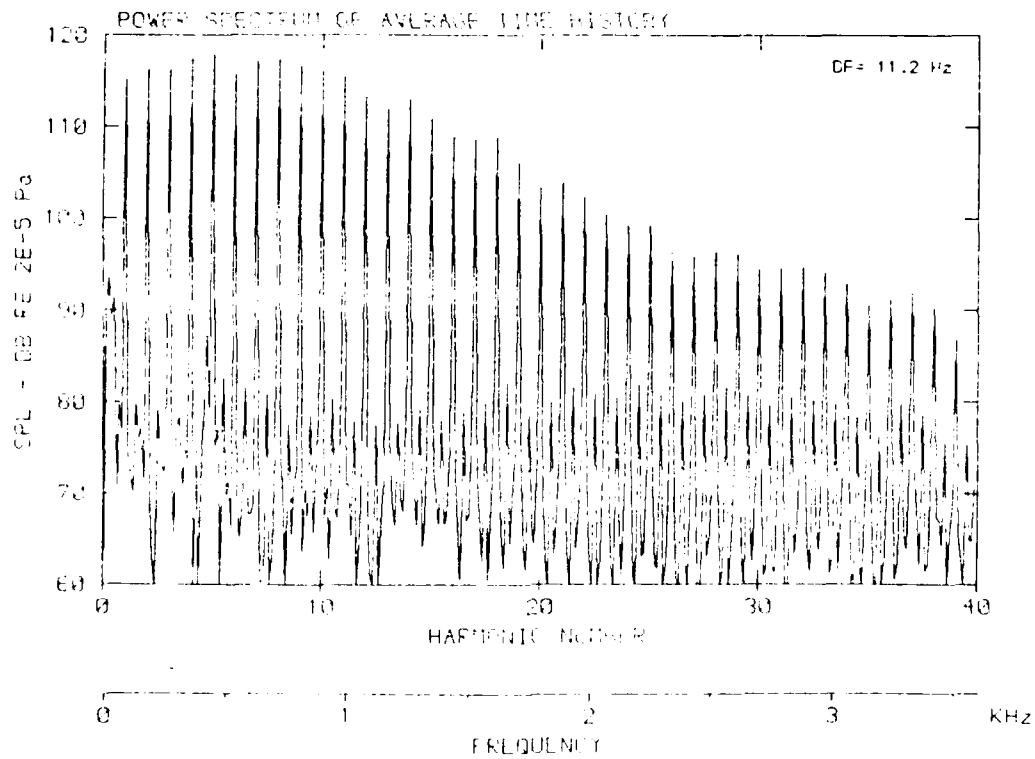
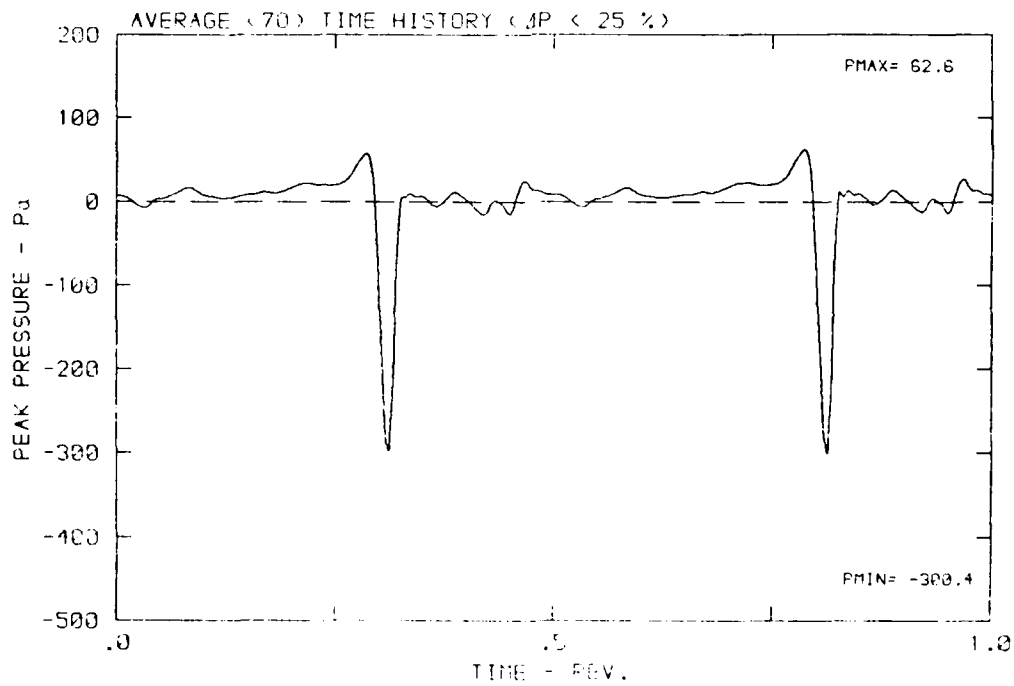
β : 20.7° MH: .8775 n: 2700 rpm v/u: .268 ϕ : .0° T: 255.8 K



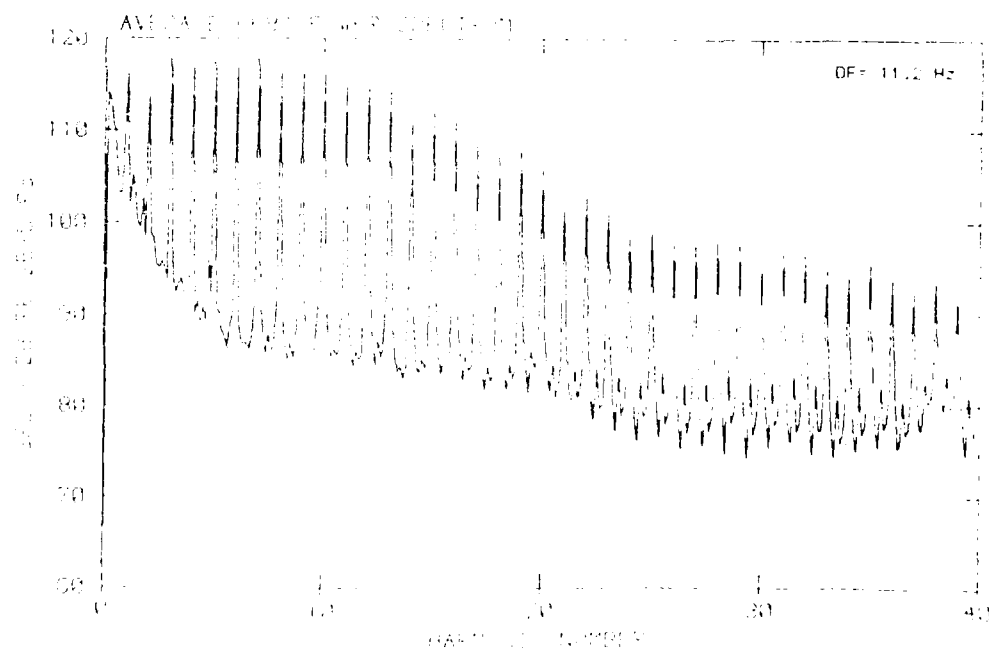
β : 0.976 $\sigma^2_{\text{residual}}$: 0.008 ϕ : 0.008 T : 285.6 K

DATA POINT: BC-6 RUN: 70 MP: 3

β : 20.7° MH: .8775 n: 2700 rpm v/u : .268 ϕ : .0° T: 285.8 K



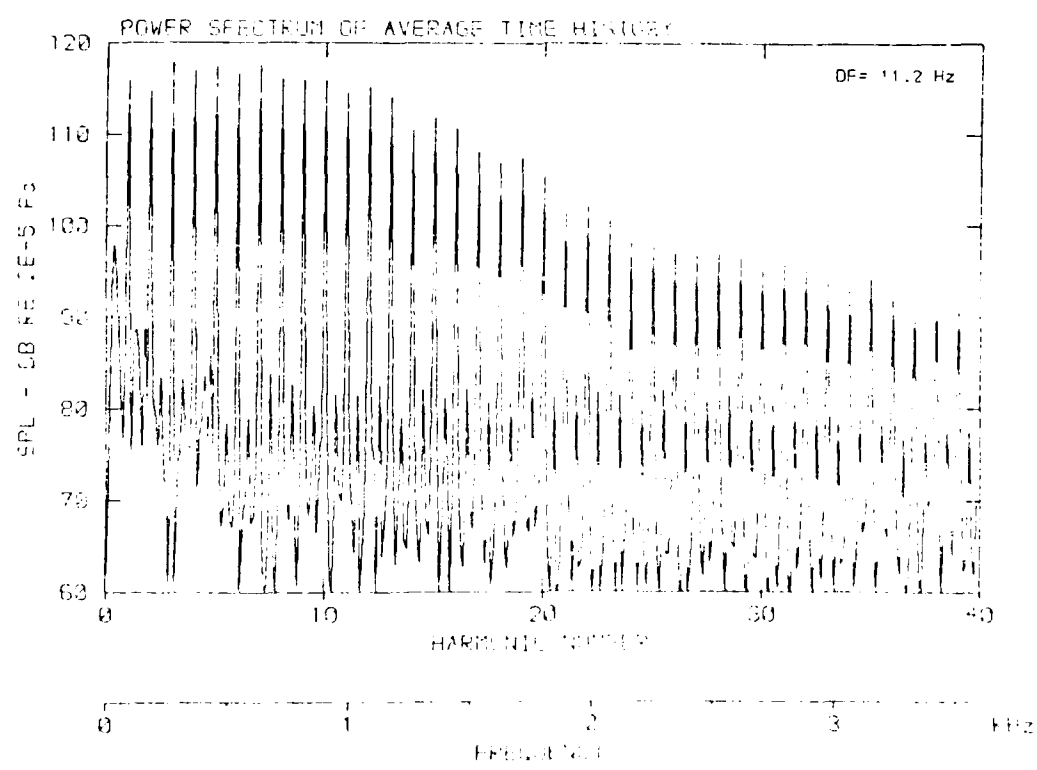
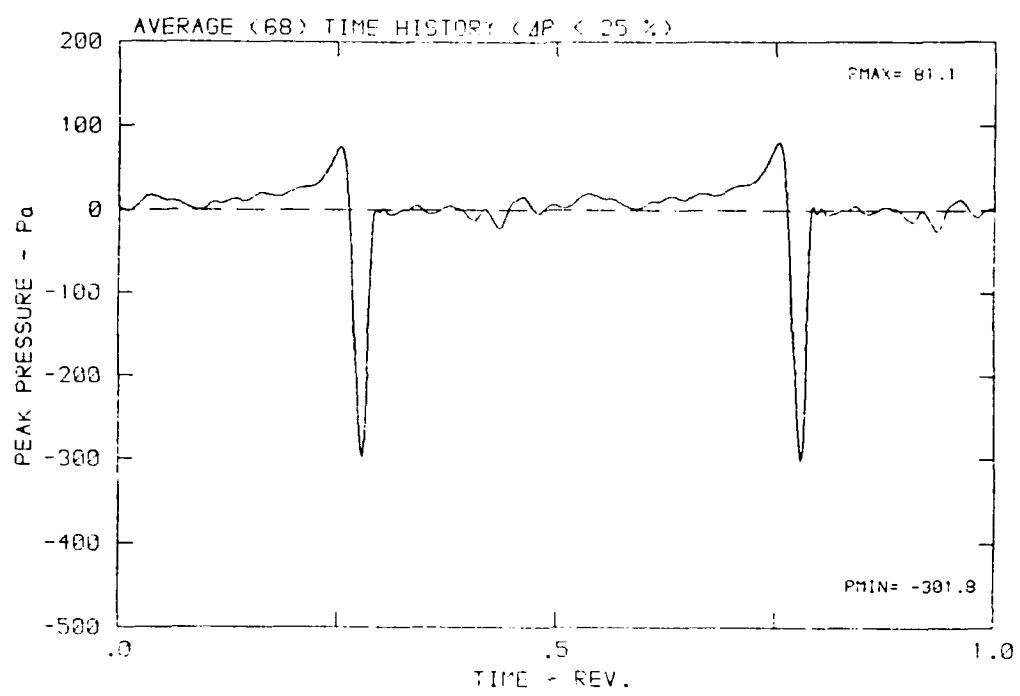
β : 20.79 μ : .6775 σ^2 : 1.0000 ρ : .0000 γ : .0000

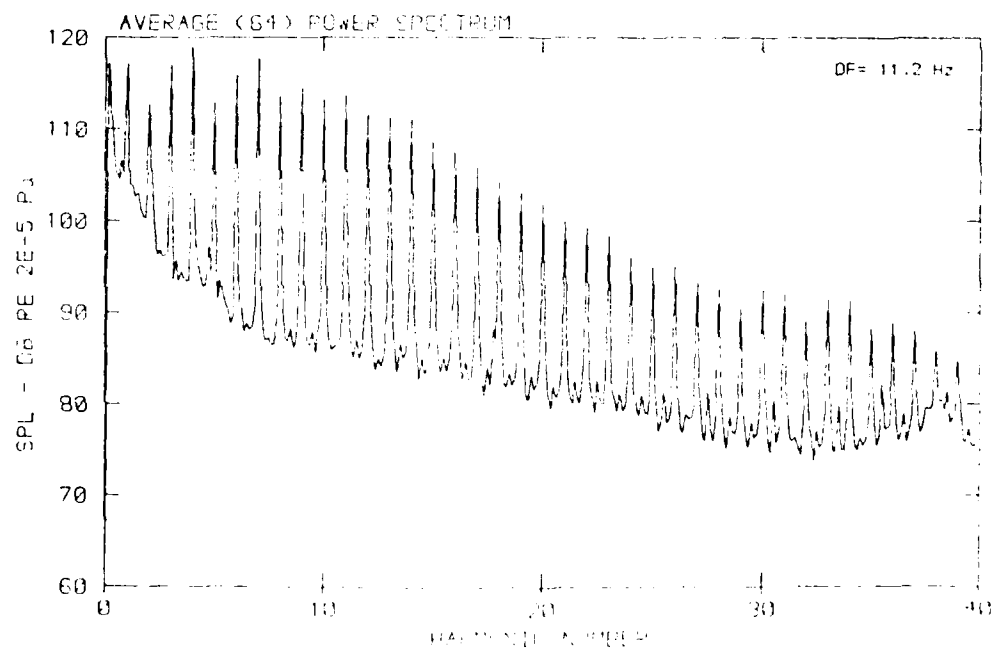
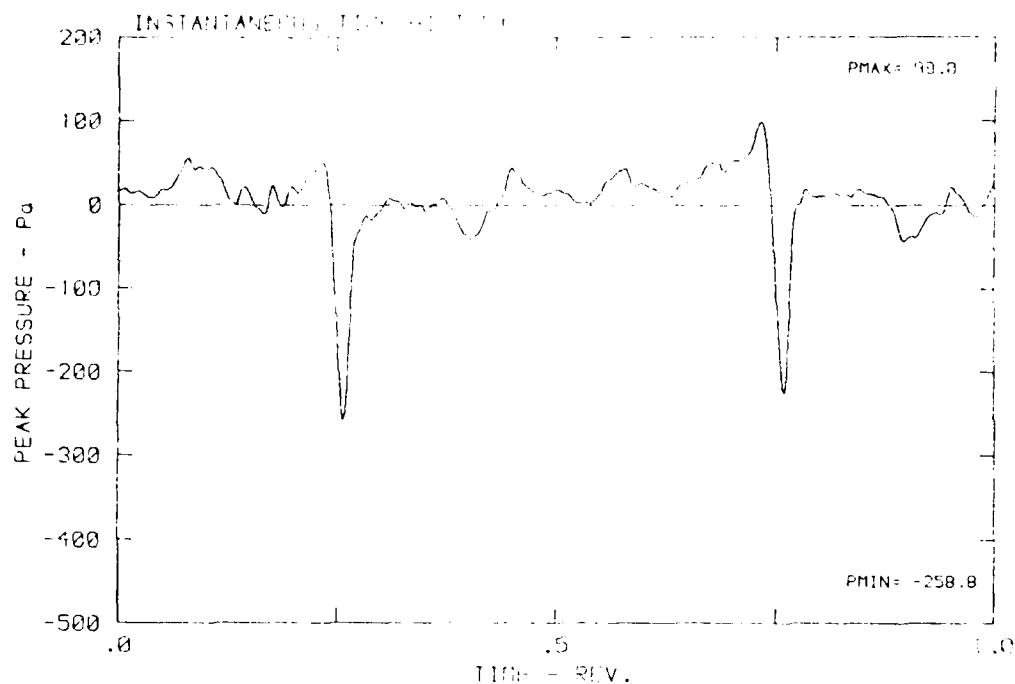


1. *Chlorophyll a* (Chl *a*)

DATA POINT: BC-6 RUN: 70 MP: 4

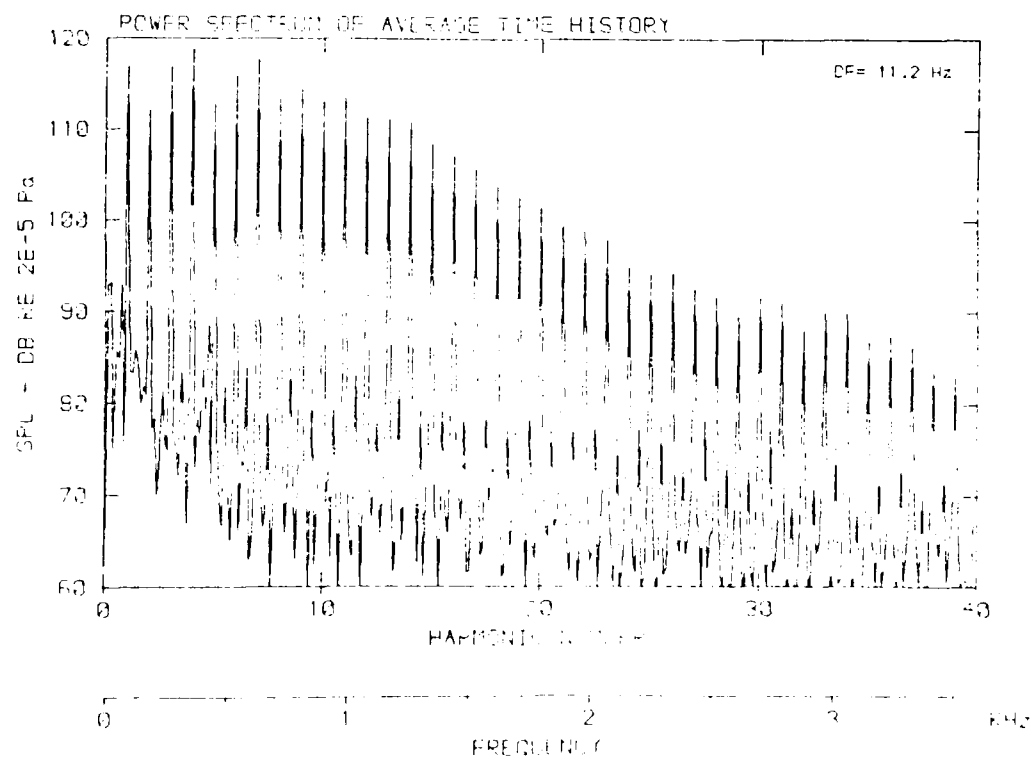
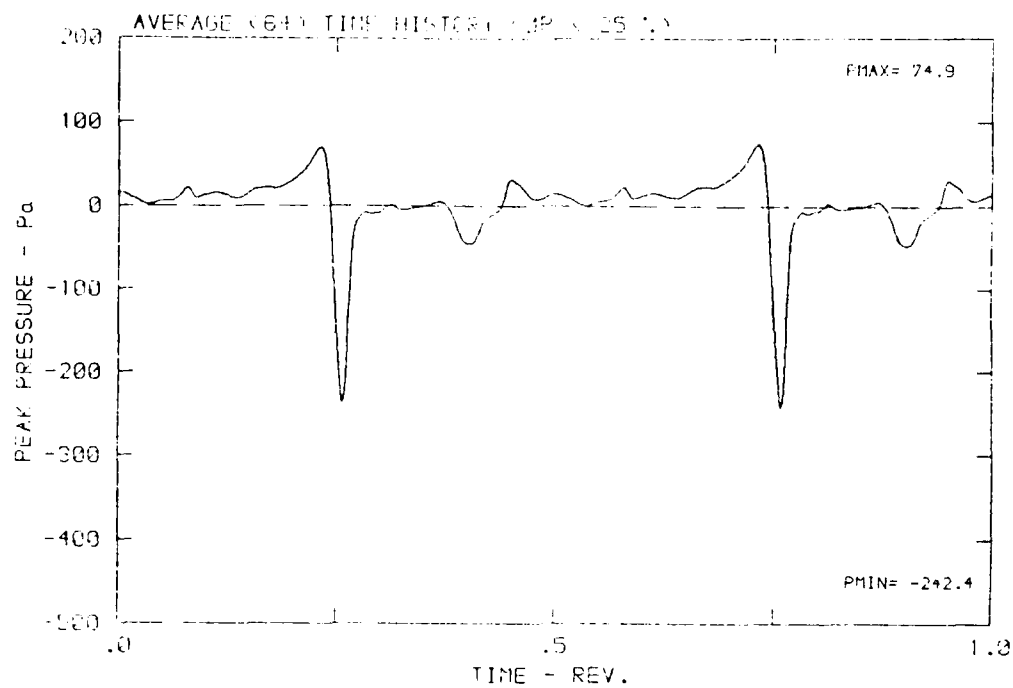
β : 20.7° MH: .8775 n: 2700 rpm v/u : .268 ϕ : .0° T: 285.8 K



$$\beta: 20.7^{\circ} \quad \text{RM: } .8777 \quad \text{a: } 1.000 \text{ \AA} \quad \text{b: } 1.000 \text{ \AA} \quad \text{c: } 1.000 \text{ \AA} \quad \text{p: } .001 \quad \text{T: } 295.3 \text{ K}$$


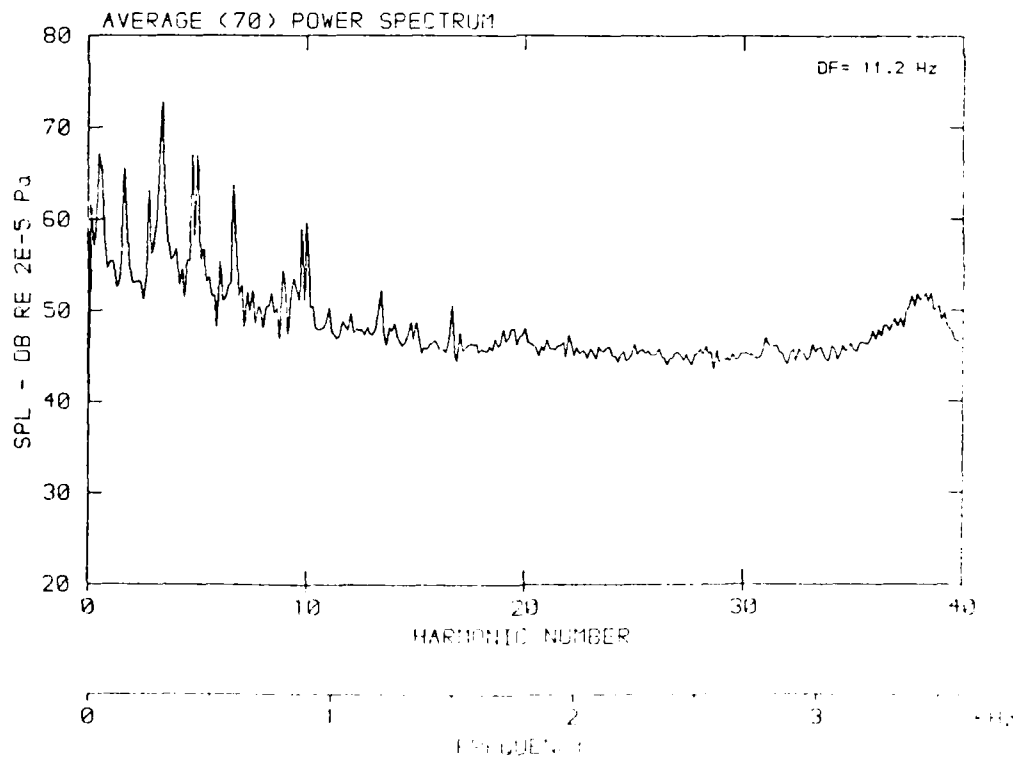
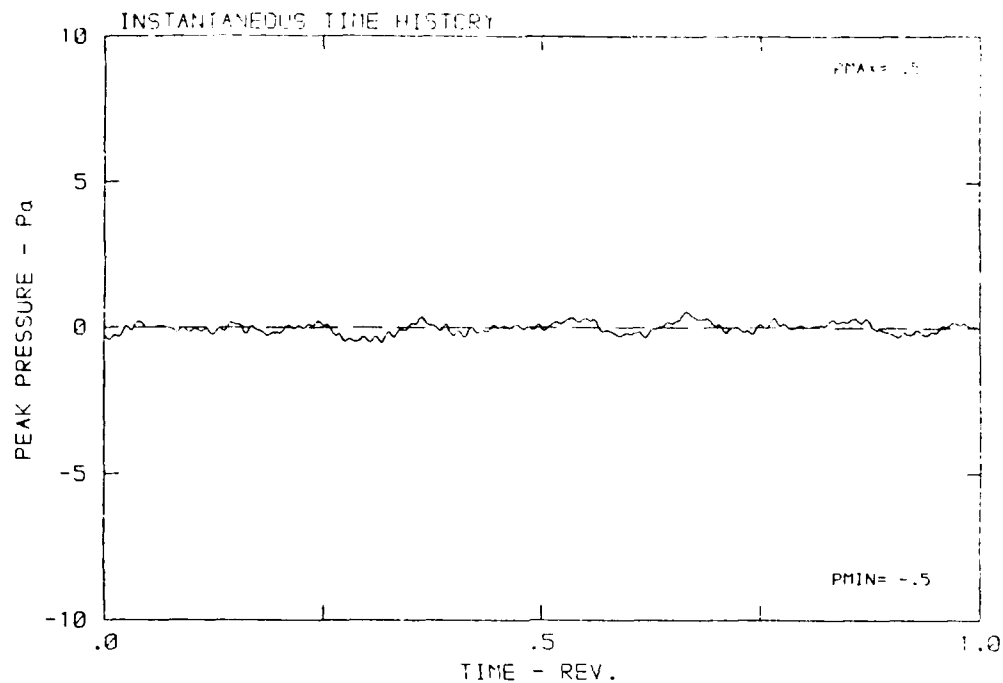
DATA POINT: BC-6 RUN: 70 MP: 5

β : 20.7° MH: .8775 n: 2700 rpm ν : .266 ϕ : .0° T: 285.8 K



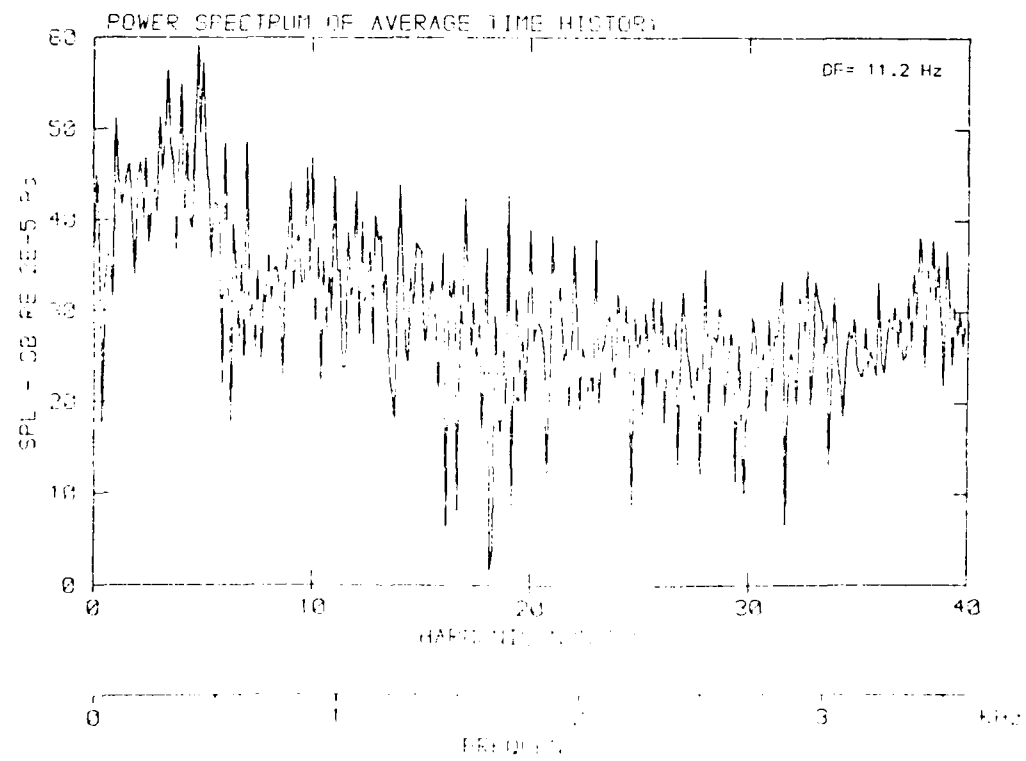
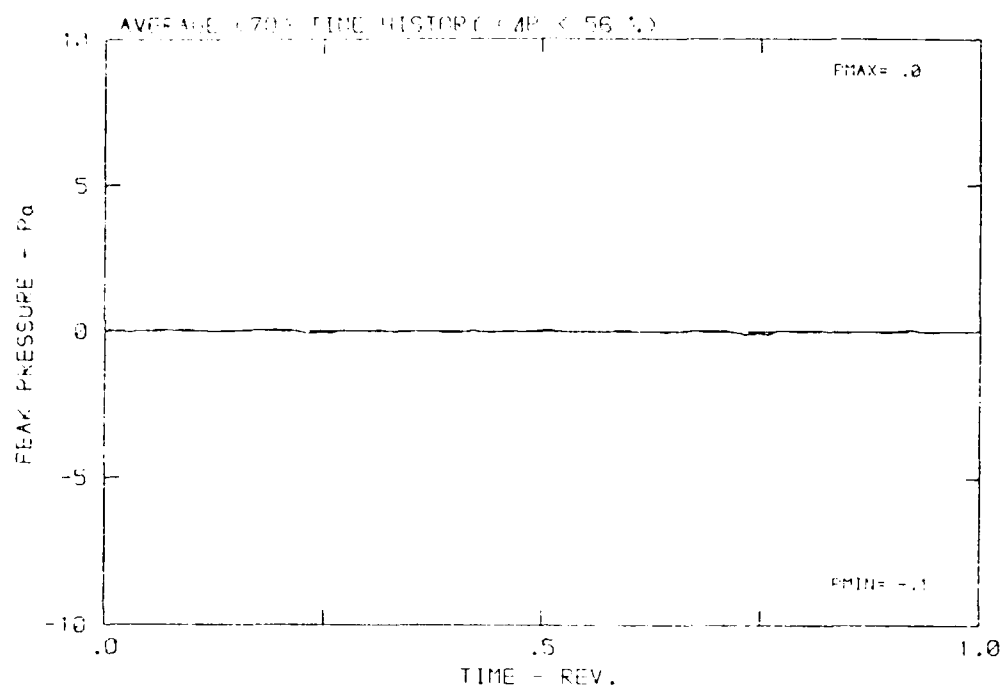
DATA POINT: BC-6 RUN: 70 MP: 5

β : 20.7° MH: .8775 n: 2500 r, m λ : .003 ϕ : .0° T: 255.2



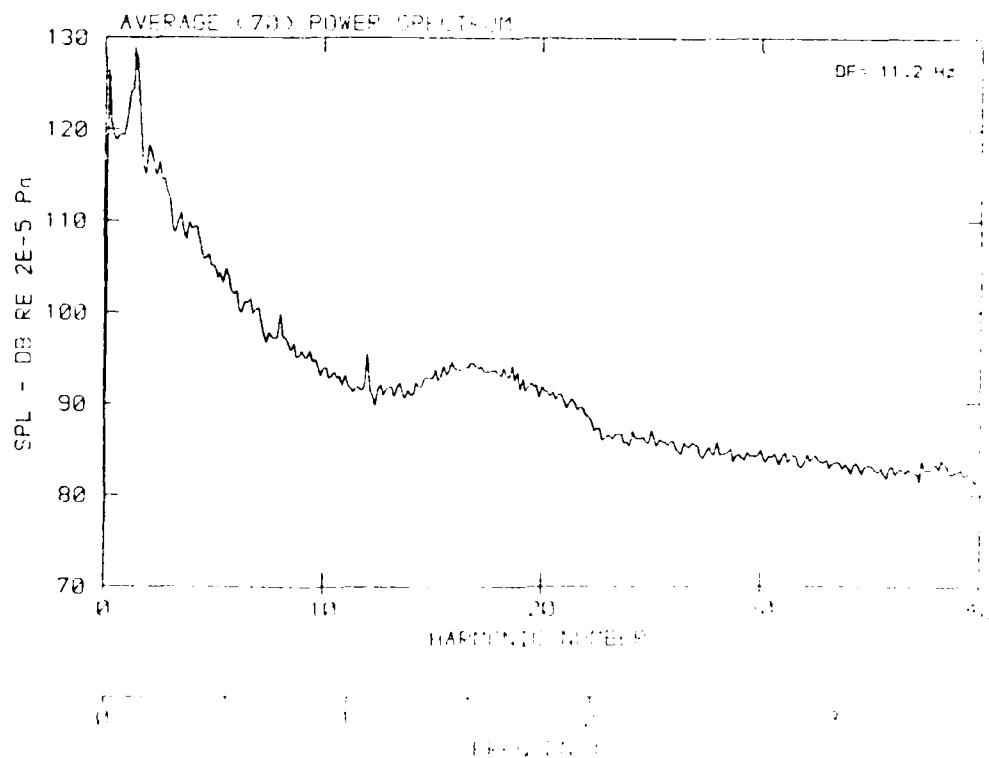
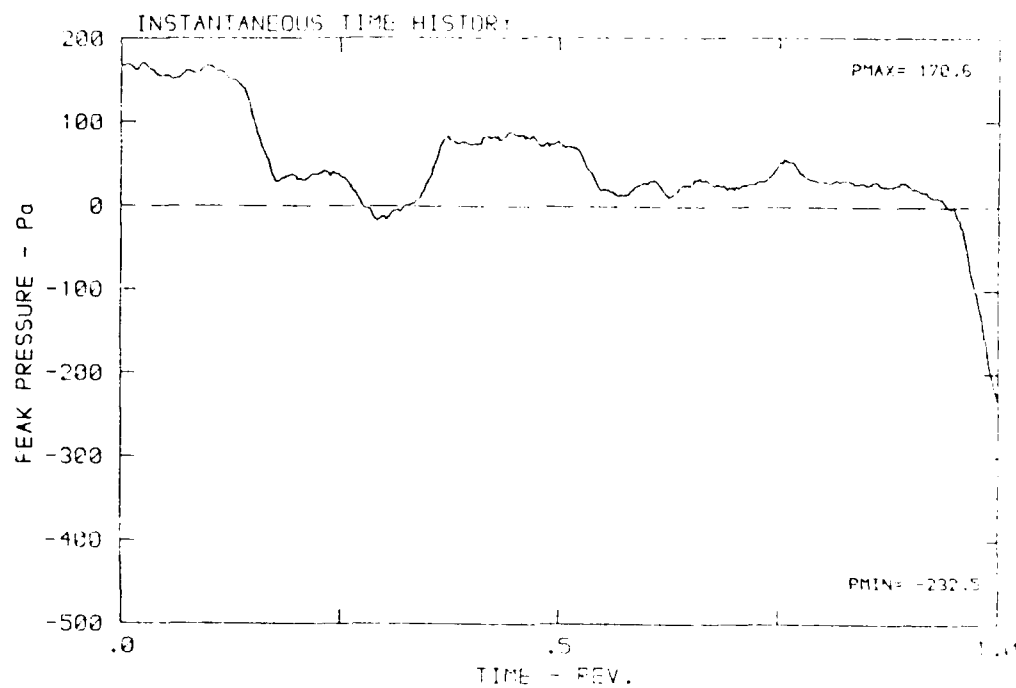
DATA POINT: BC-E RUN: 70 MP: 6

β : 20.7° NH: .6775 n: 2700 rpm v_{tu} : .268 ϕ : .0° T: 285.8 K



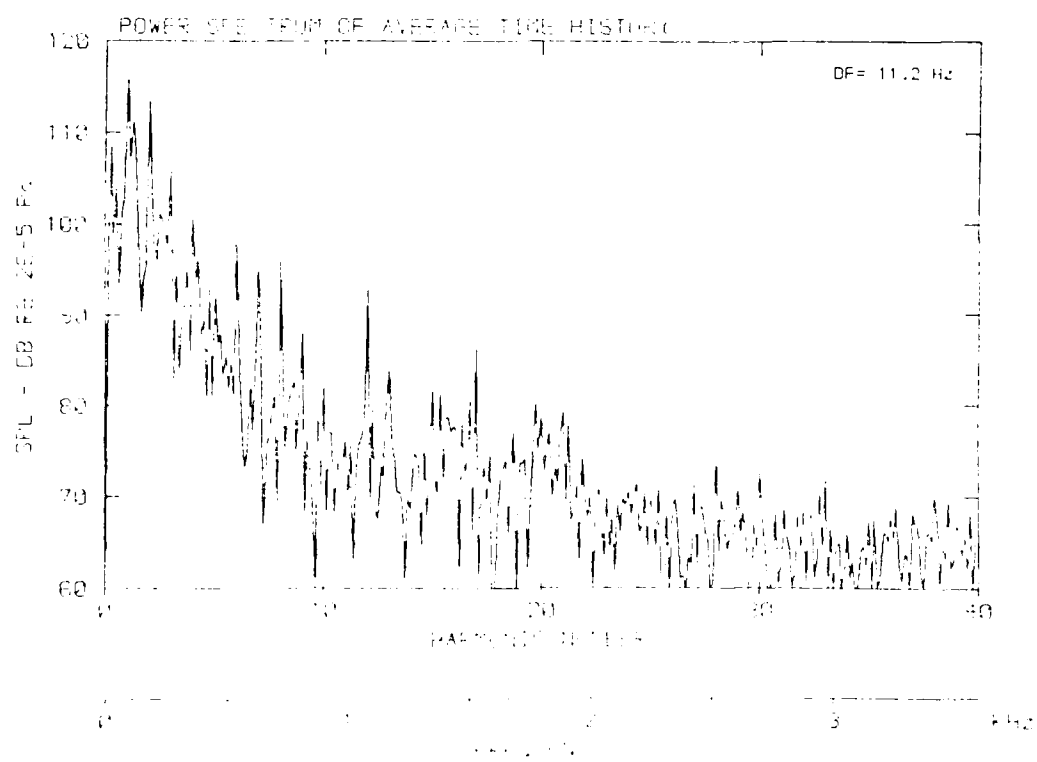
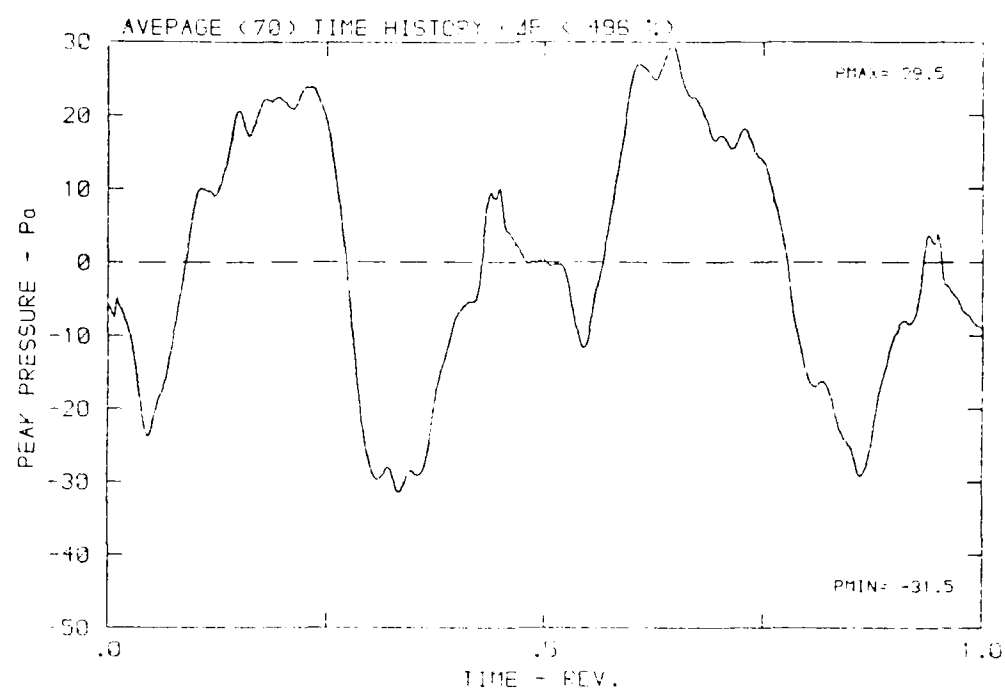
DATA POINT: BC-B FUN: 7M MP: 7

β : 20.7° NH: .8775 n: 2700 rpm v: 0: .005 A: .00 T: 1.00



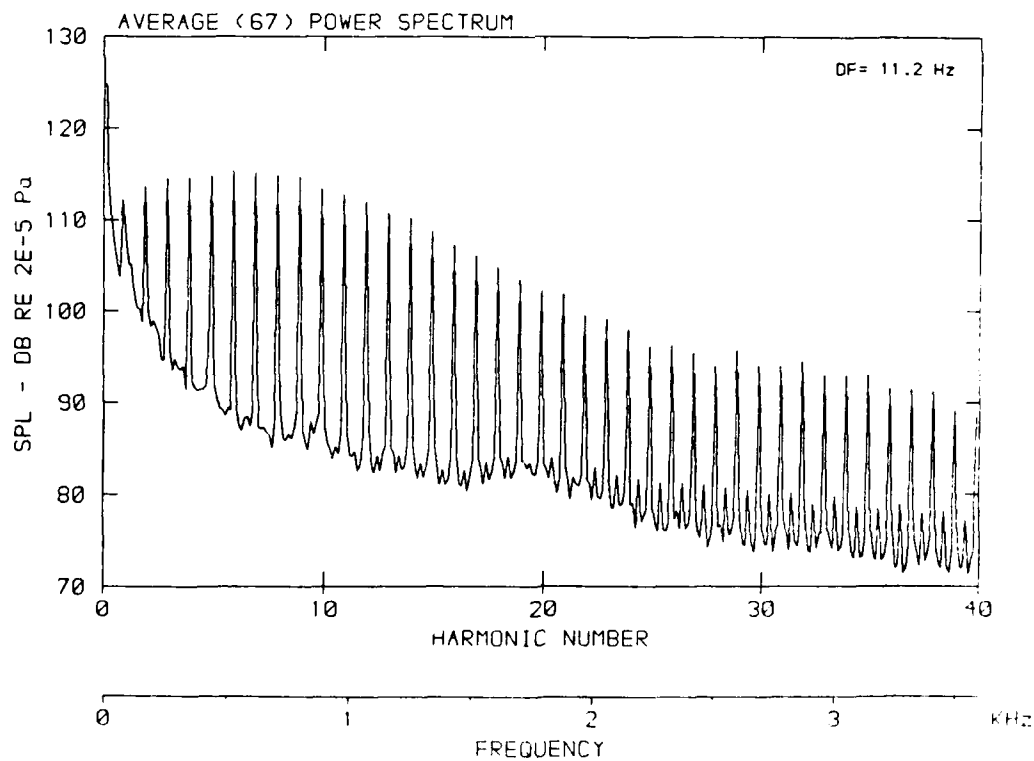
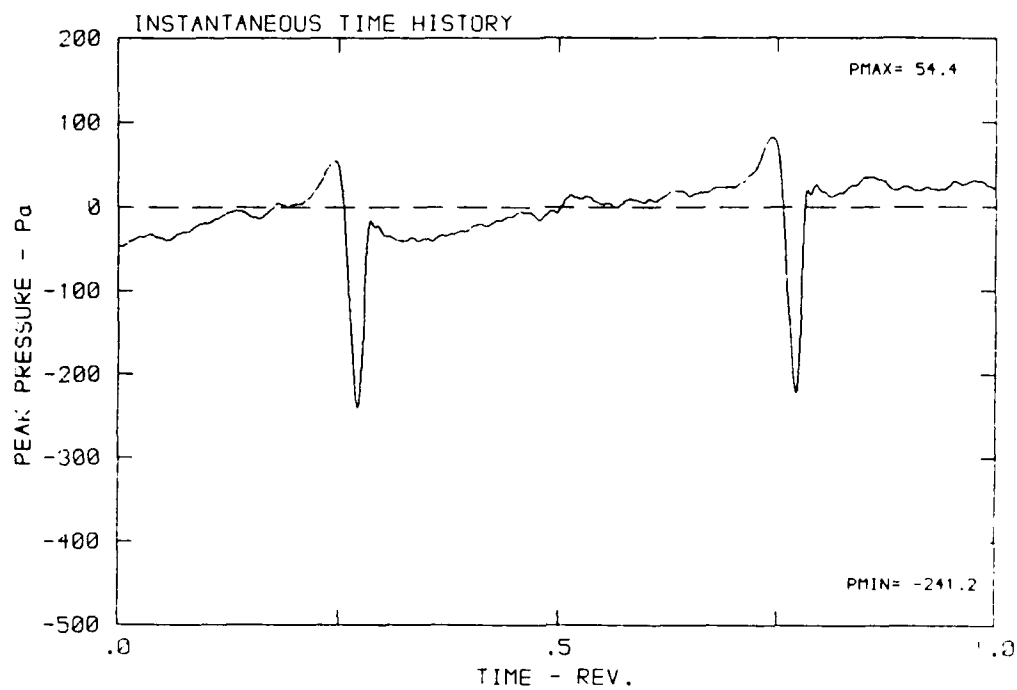
DATA POINT: BC-6 RUN: 70 MP: 7

β : 20.7° MH: .8775 n: 2700 rpm v/u : .268 ϕ : .0° T: 235.8 K



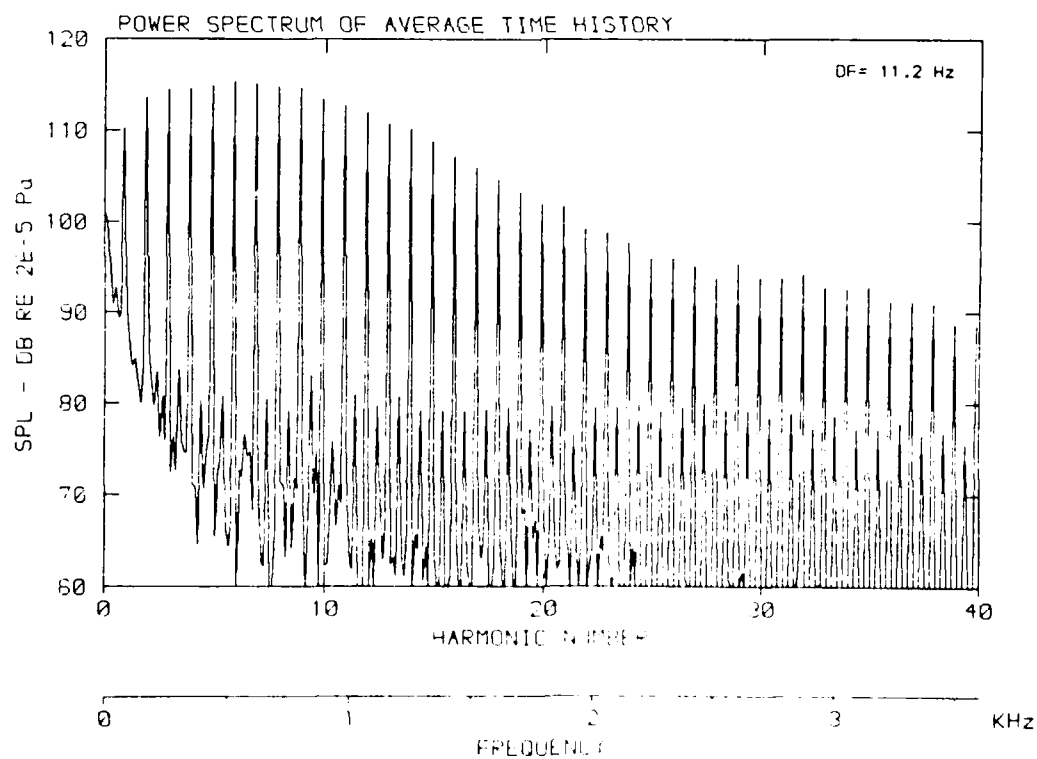
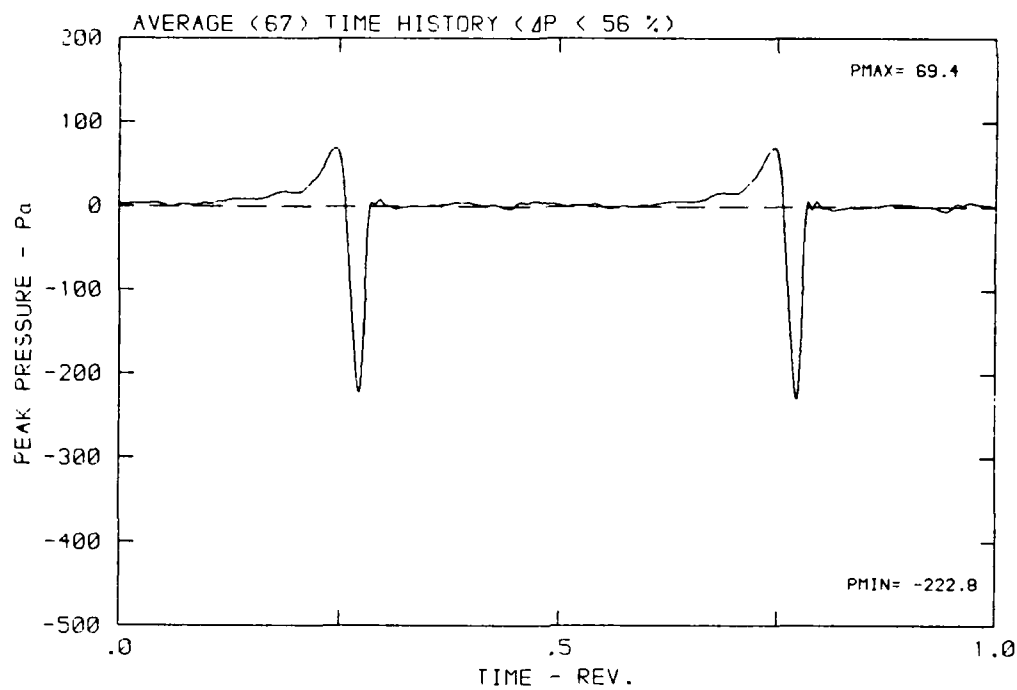
DATA POINT: BC-6 RUN: 70 MP: 8

β : 20.7° MH: .8775 n: 2700 rpm v/u: .268 ϕ : .0° T: 285.8 K



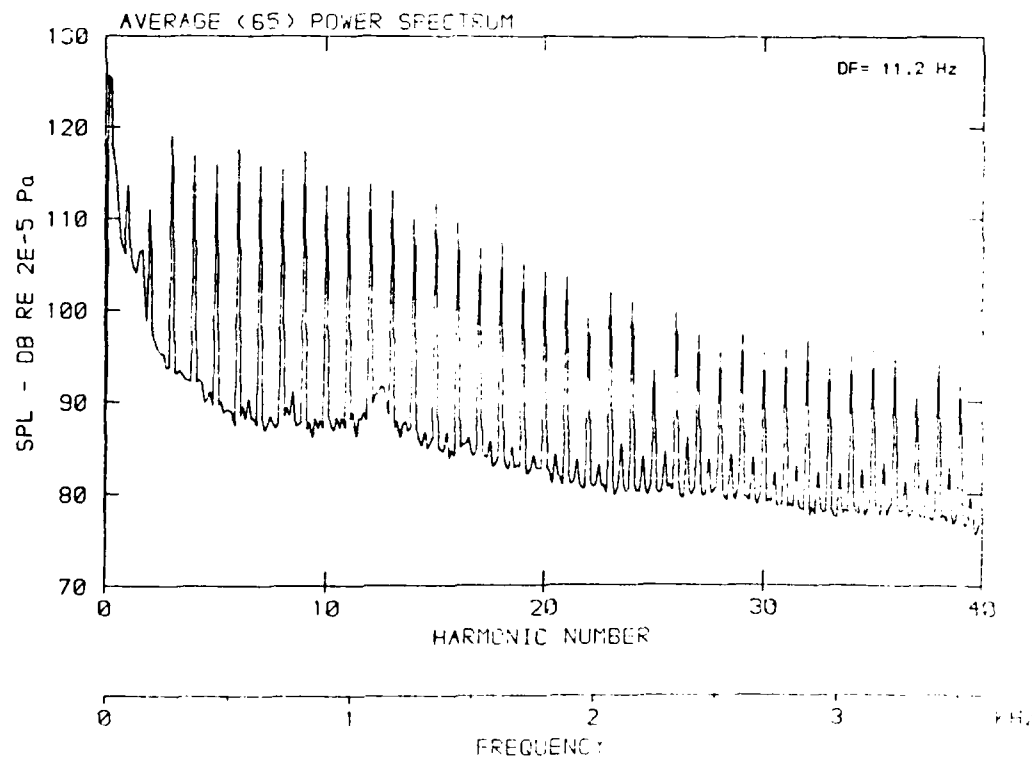
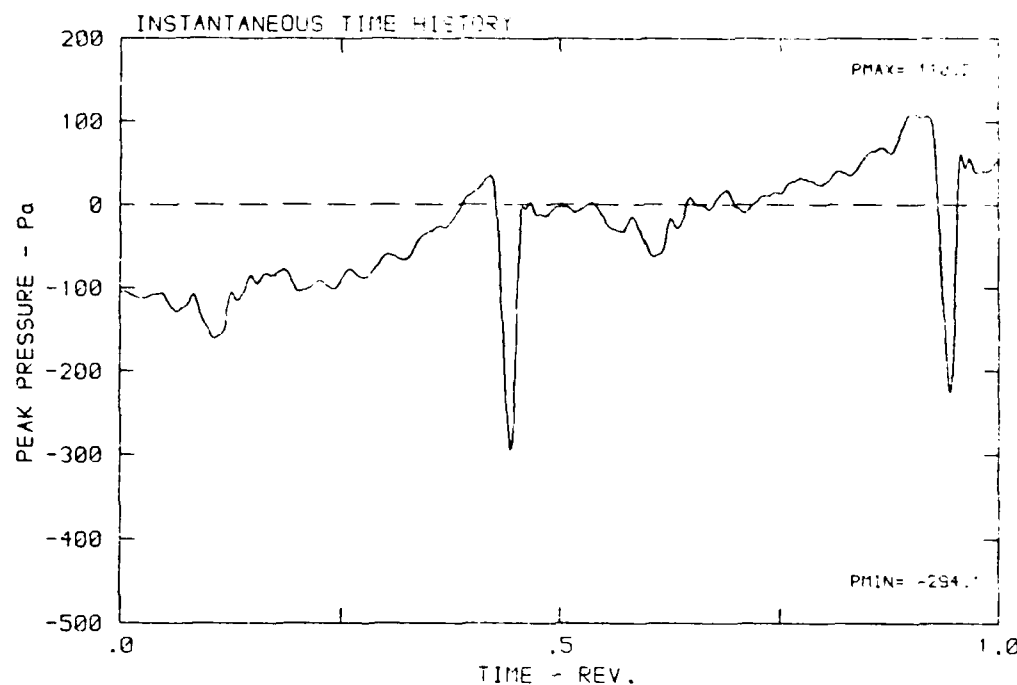
DATA POINT: BC-6 RUN: 70 MP: 8

β : 20.7° MH: .8775 n: 2700 rpm v/u: .268 ϕ : .0° T: 285.8 K



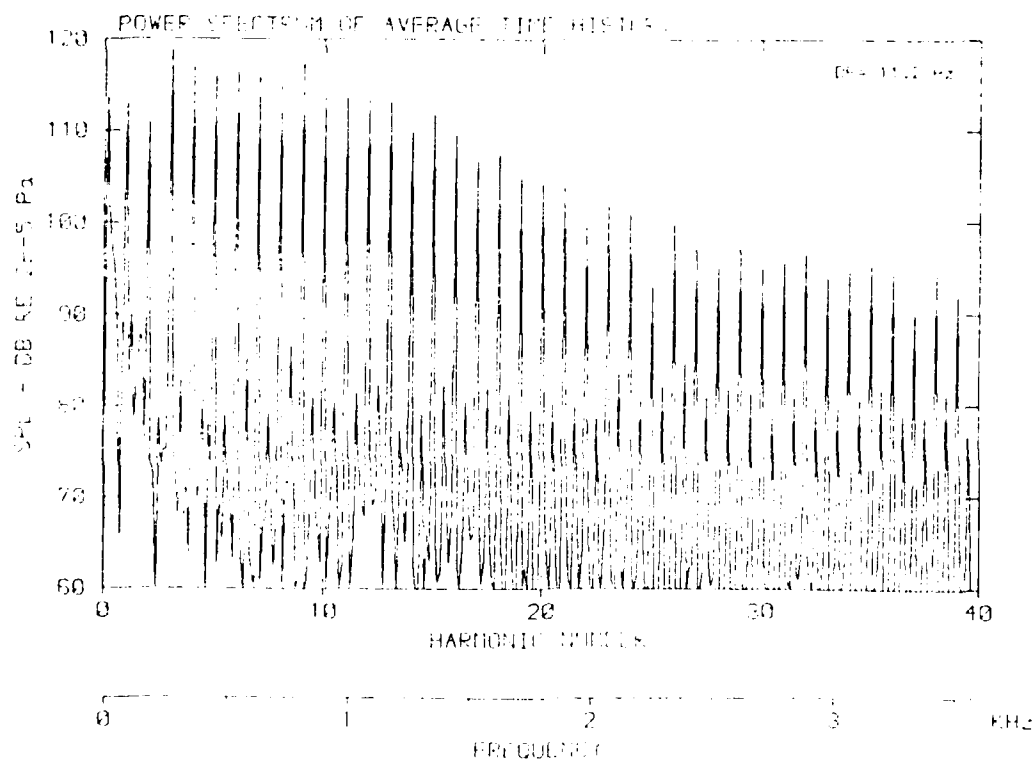
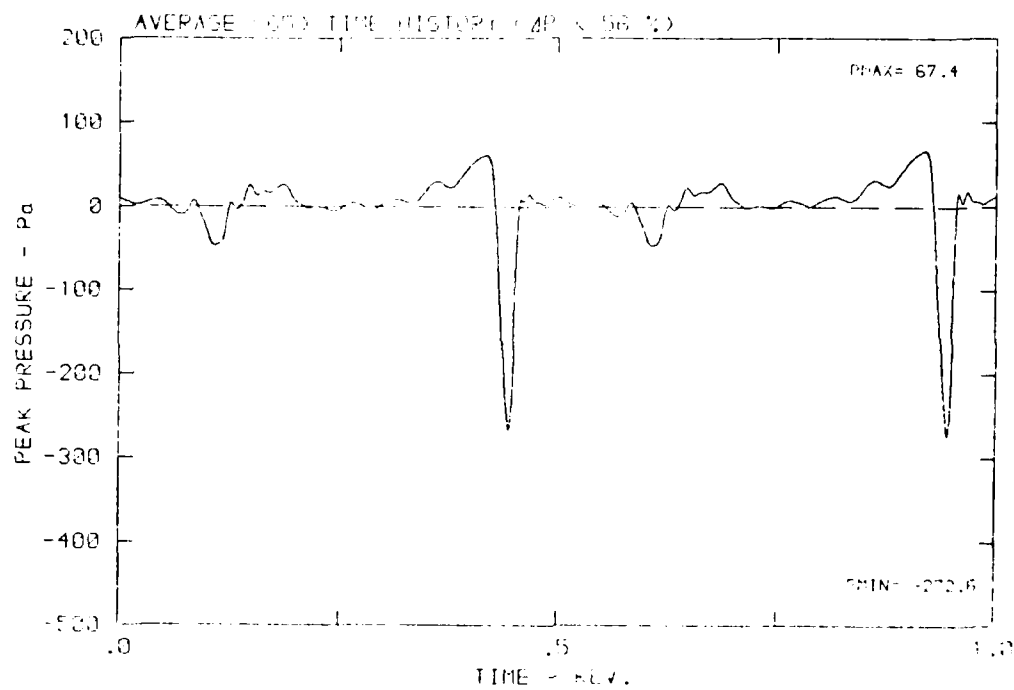
DATA POINT: BC-6 RUN: 70 MP: 9

β : 20.7° MH: .8775 n: 2733 rpm u: .258 p: .12 t: 10.1



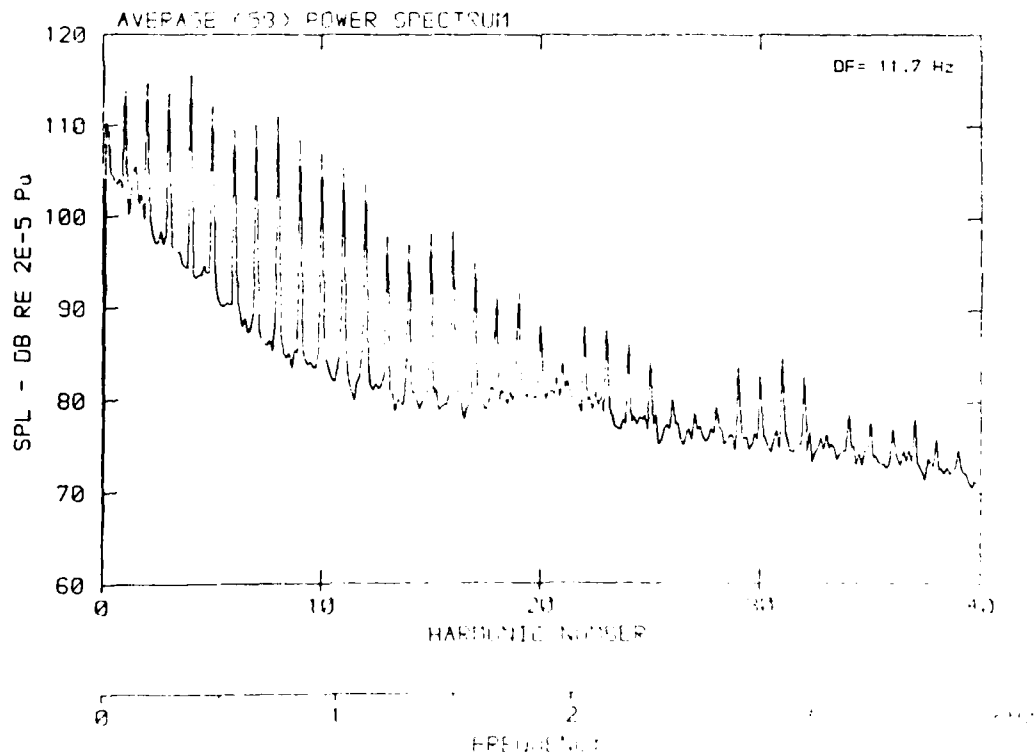
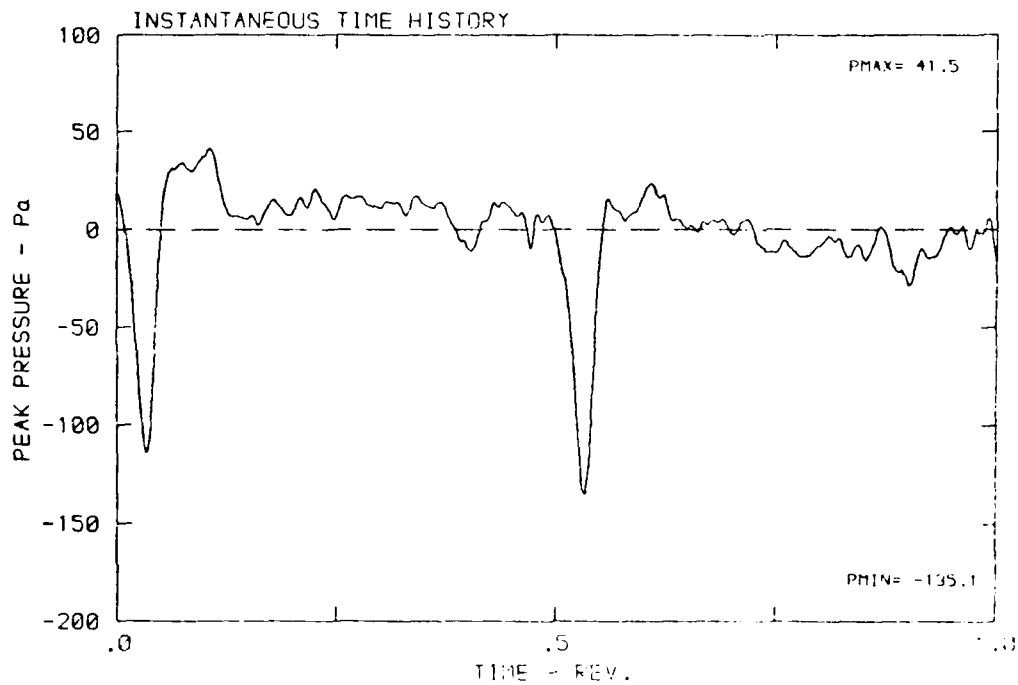
DATA POINT: BL-6 RUN: 70 NP: 9

β : 20.7° MH: .8775 n: 2700 rpm v/u : .268 ϕ : .0° T: 285.8 K



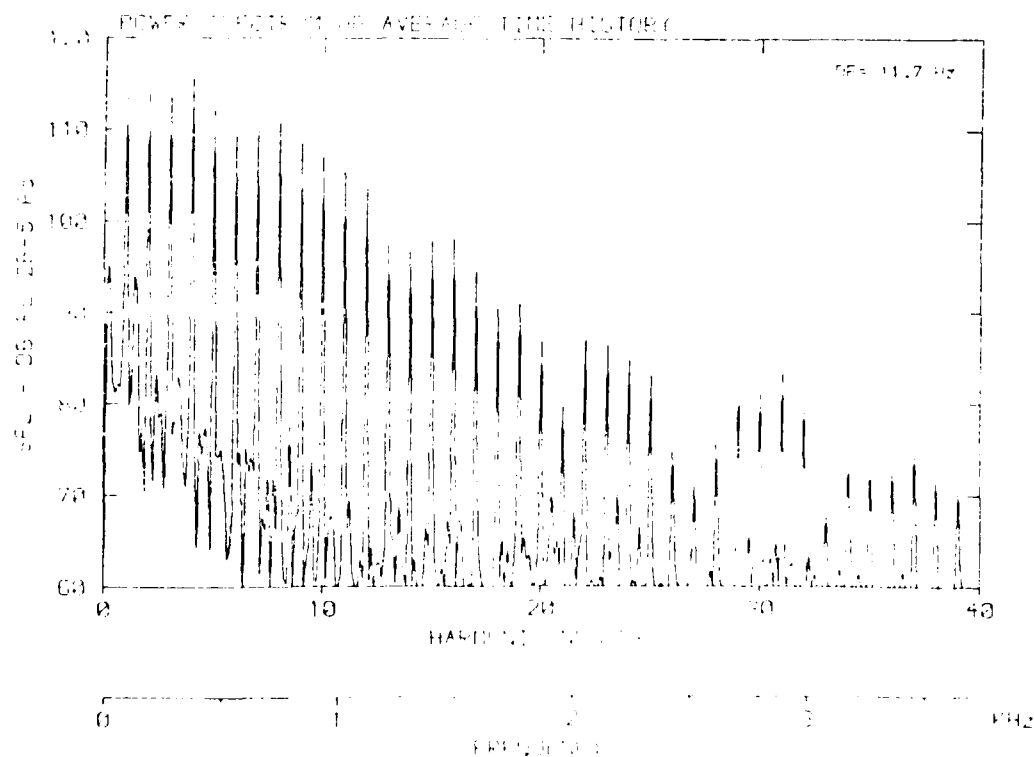
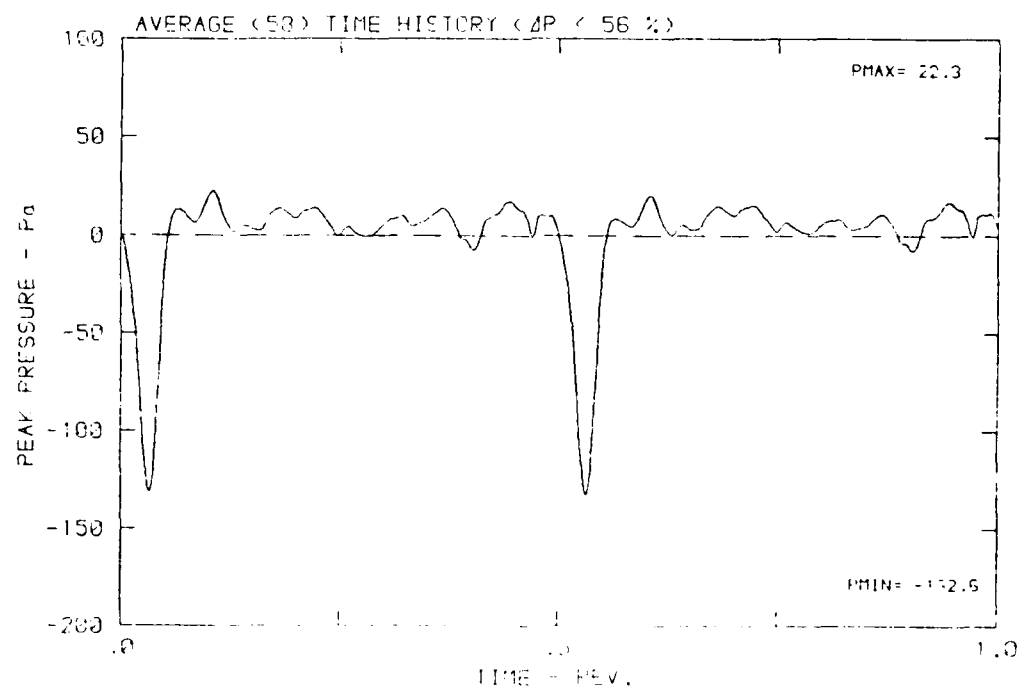
DATA POINT: BC-61 RUN: 71 MP: 1

β : 20.7° MH: .9064 n: 2800 rpm ν : .250 ϕ : .0° T: 296.9 K



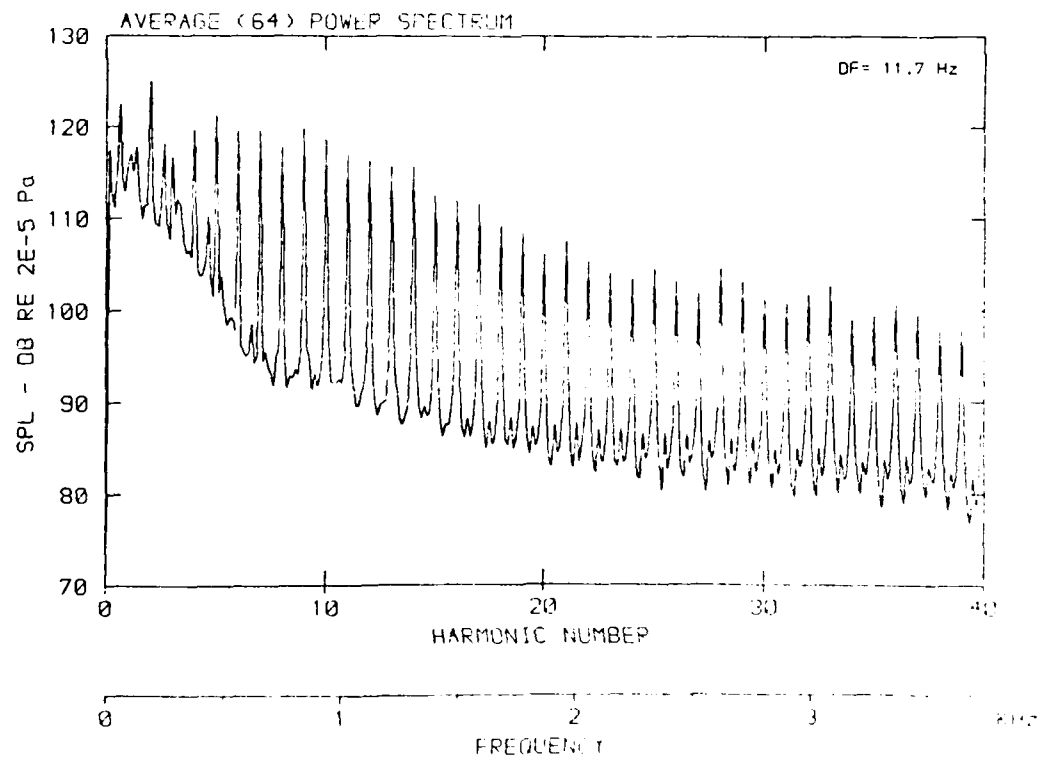
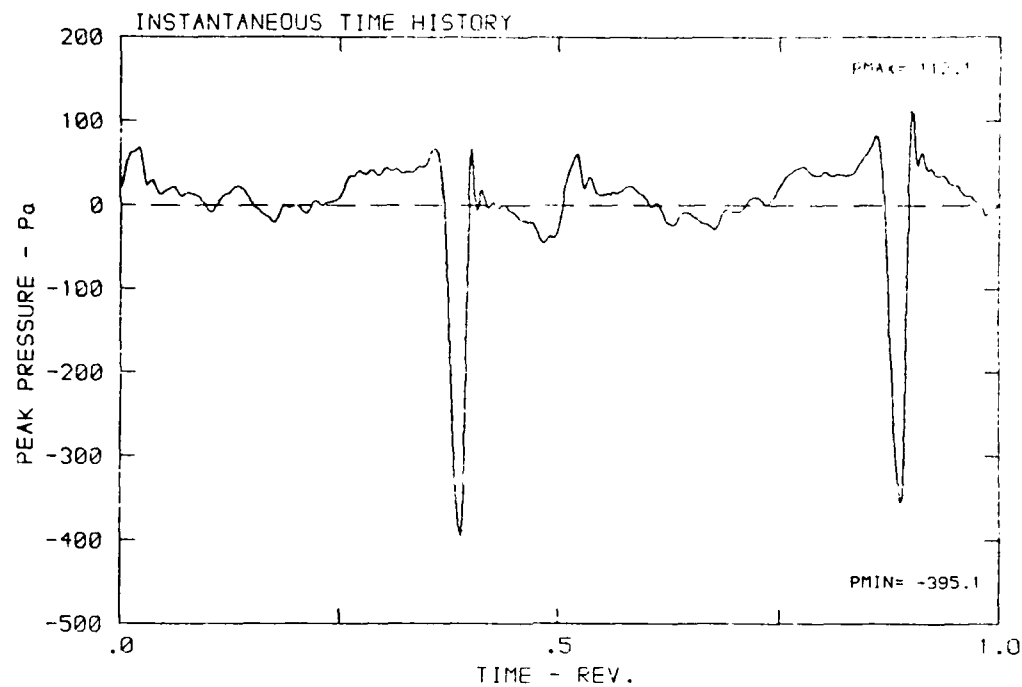
DATA POINT: BC-61 RUN: 71 MP: 1

β : 20.7° MH: .9064 n: 2800 rpm v/u : .260 ϕ : .0° T: 286.9 K



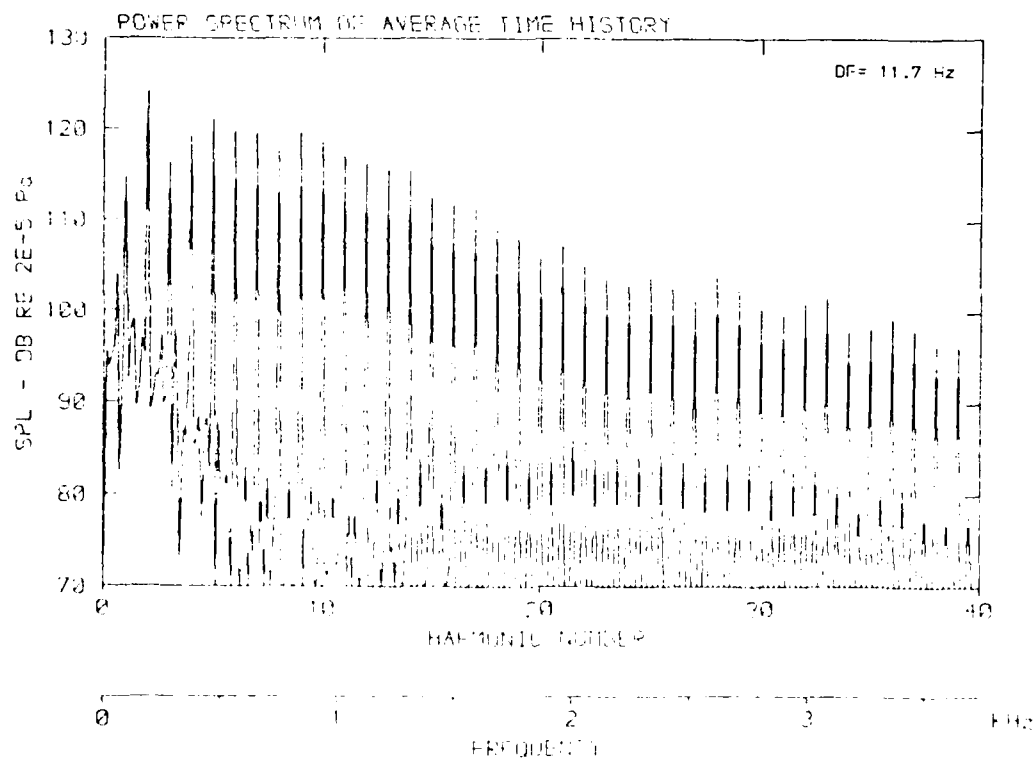
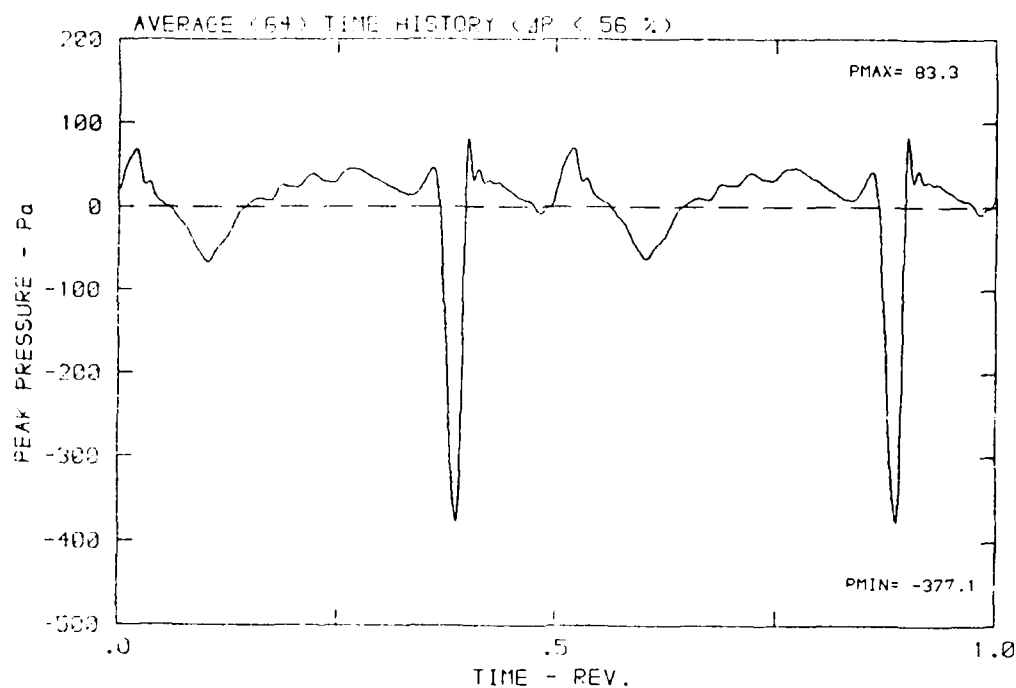
DATA POINT: BC-61 RUN: 71 MP: 2

β : 20.7° MH: .9064 n: 2800 rpm v/u : .260 ϕ : .0° T: 255.9 K



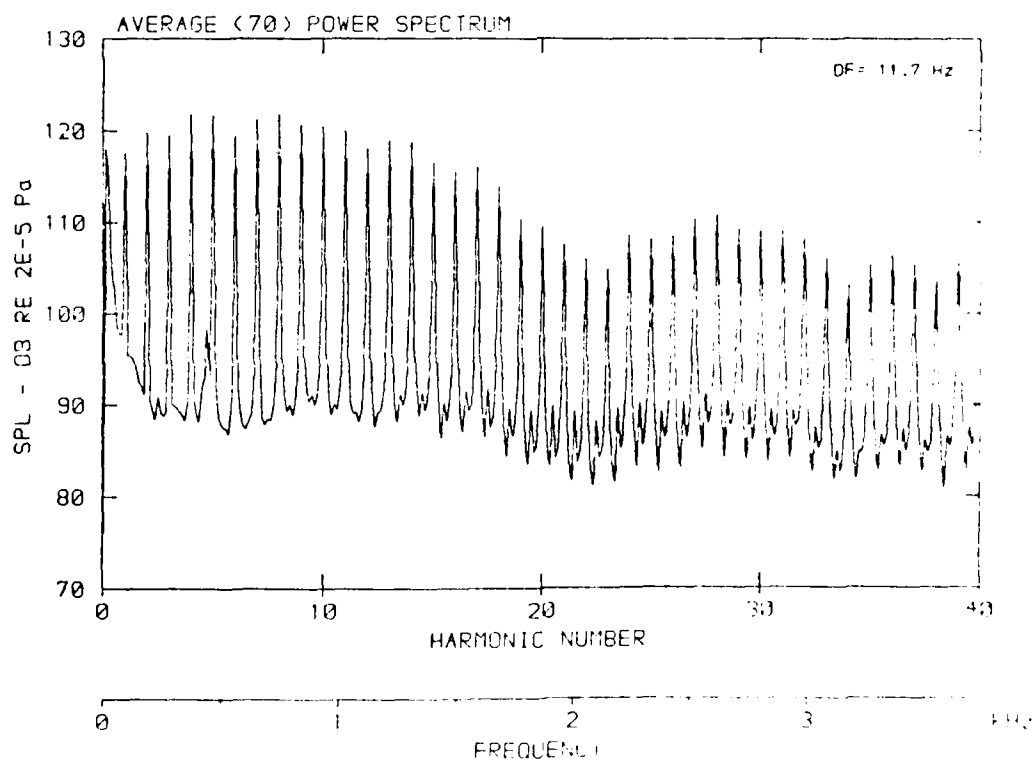
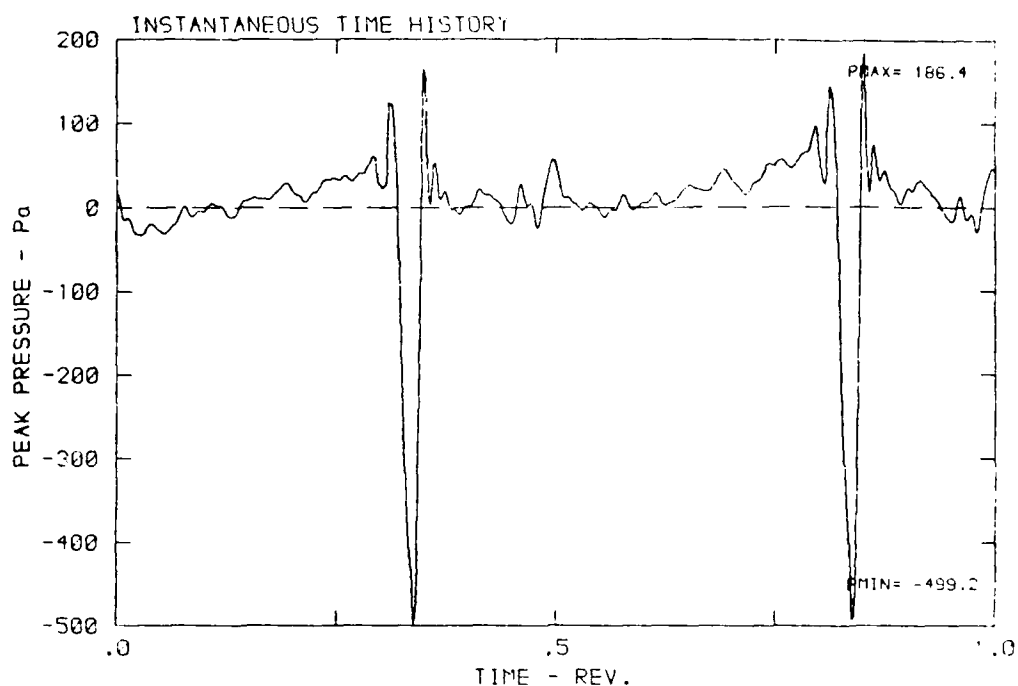
DATA POINT: BC-61 RUN: 71 NP: 2

β : 20.7° MH: .9064 n: 2800 rpm v/u : .260 ϕ : .0° T: 286.9 K



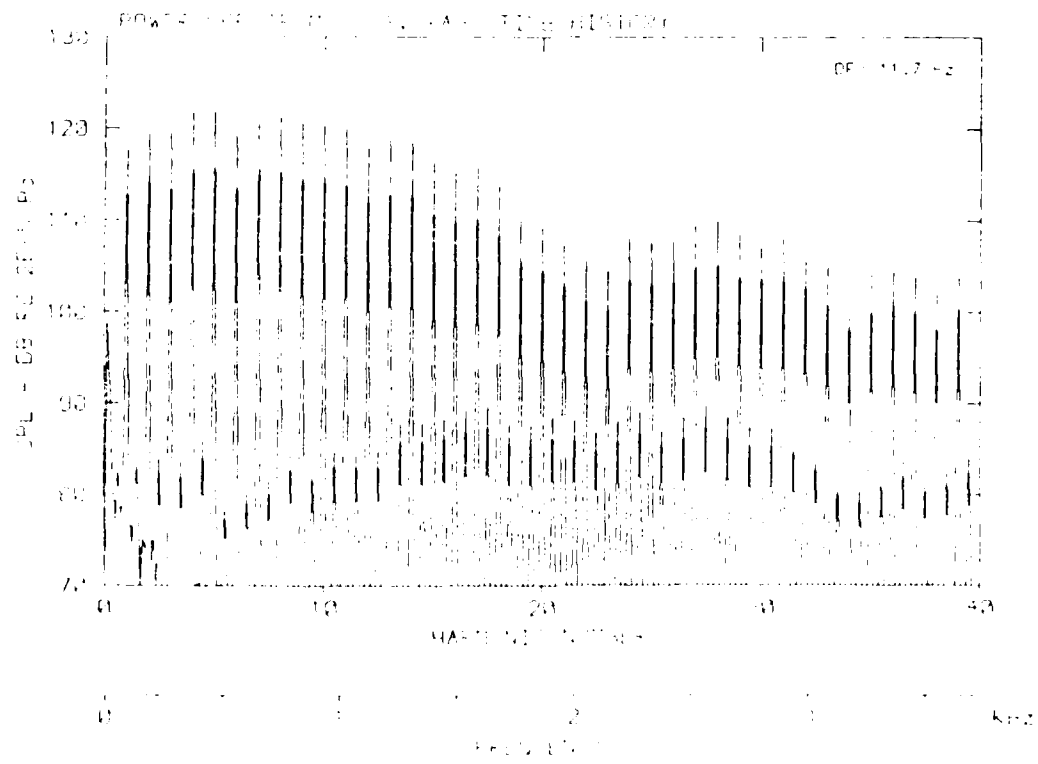
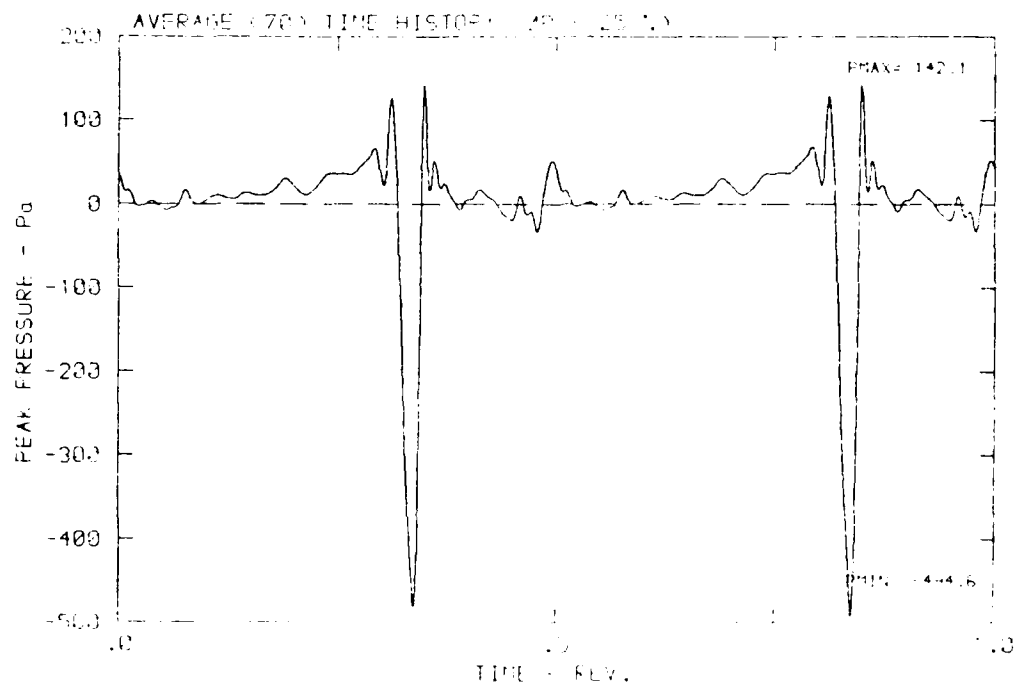
DATA POINT: BC-61 RUN: 71 NP: 2

β : 20.7° MH: .9064 n: 2800 rpm γ : .260 ϕ : .0° T: .001



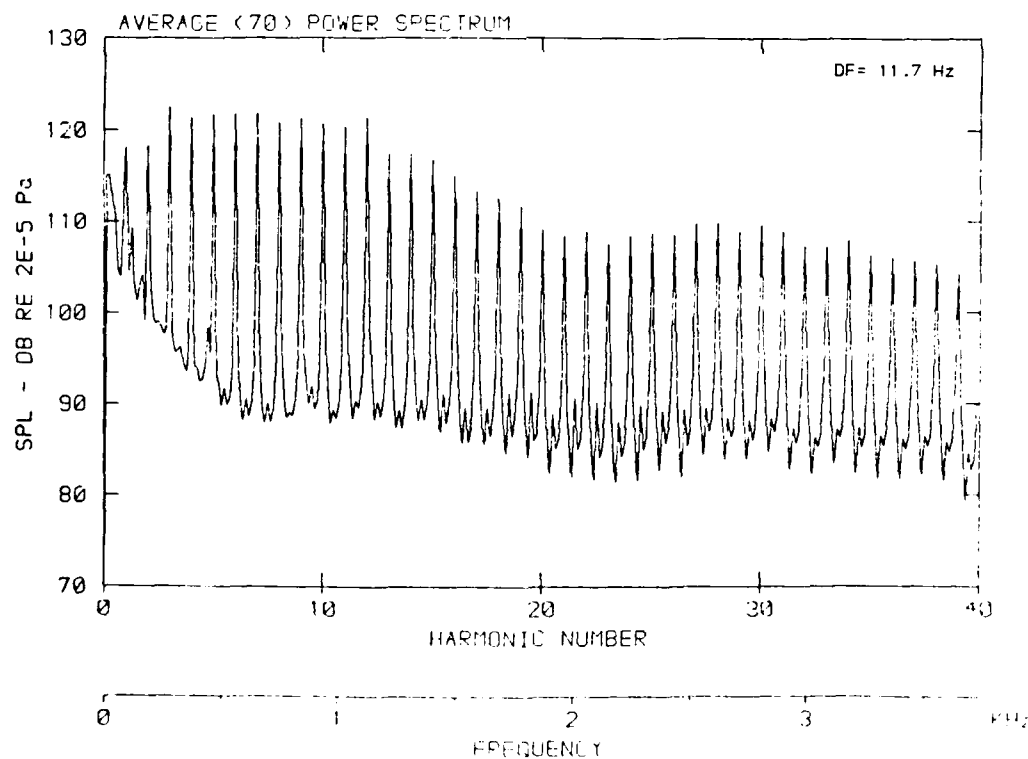
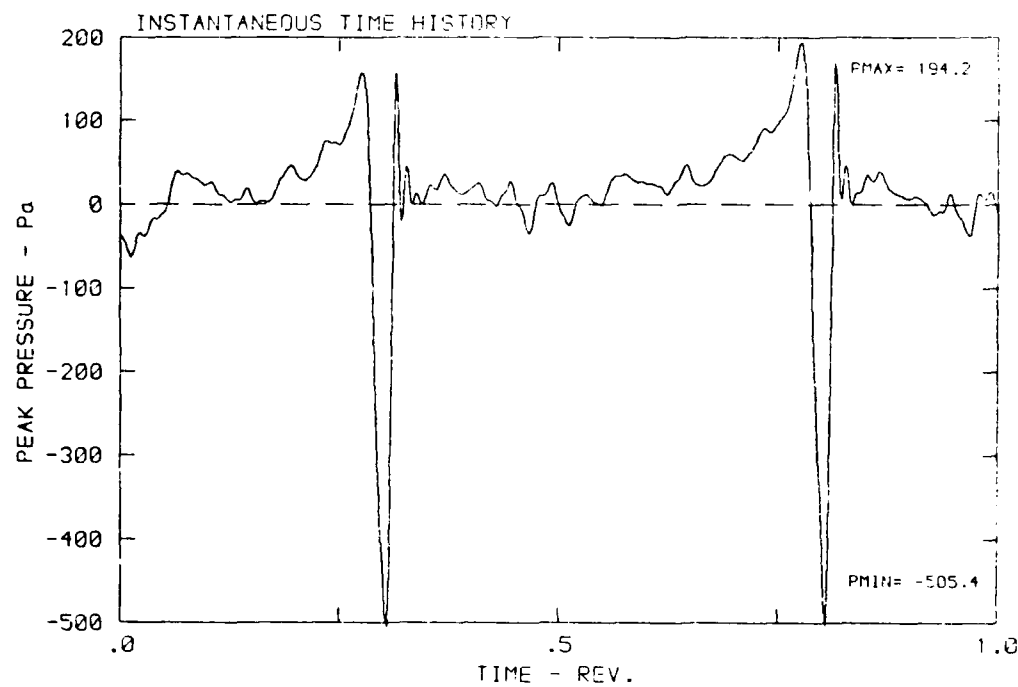
DATA POINT: BC-61 RUN: 71 MP: 3

β : 20.7° MH: .9064 n: 2800 rpm V: 0.1280 ϕ : .0° T: 296.9 K

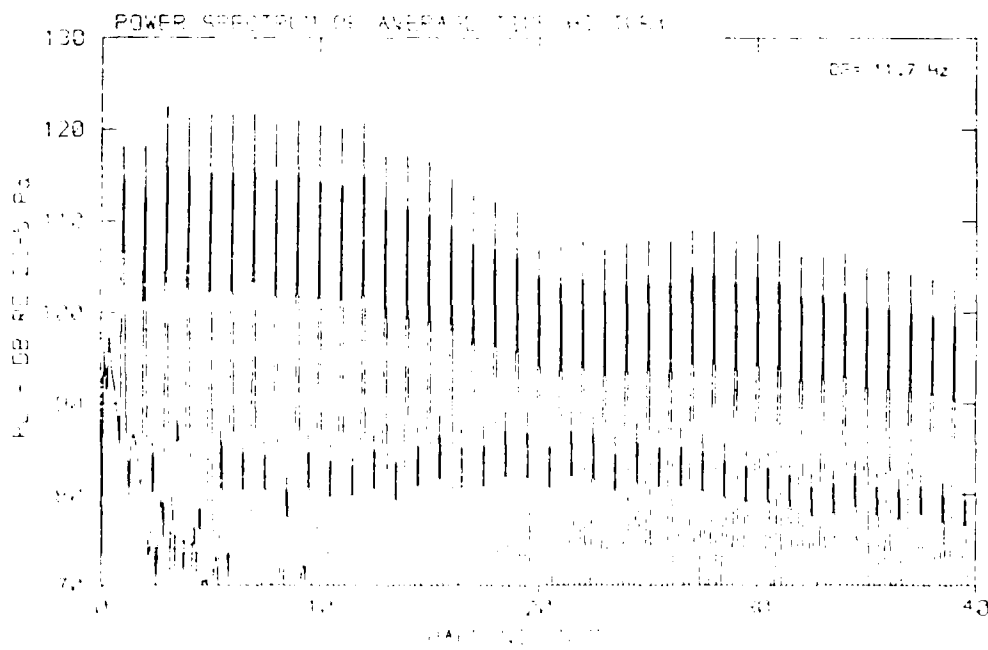
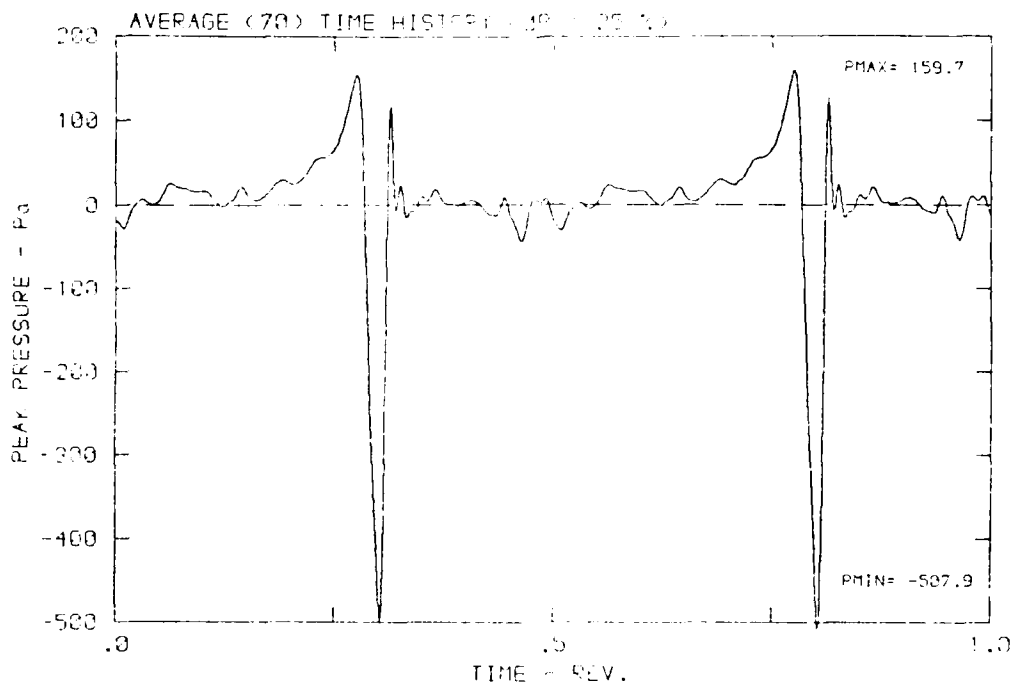


DATA POINT: BC-61 RUN: 71 MP: 4

β : 20.7° MH: .9064 n: 2500 rpm v/u : .280 ϕ : .0° T: 116.0 s

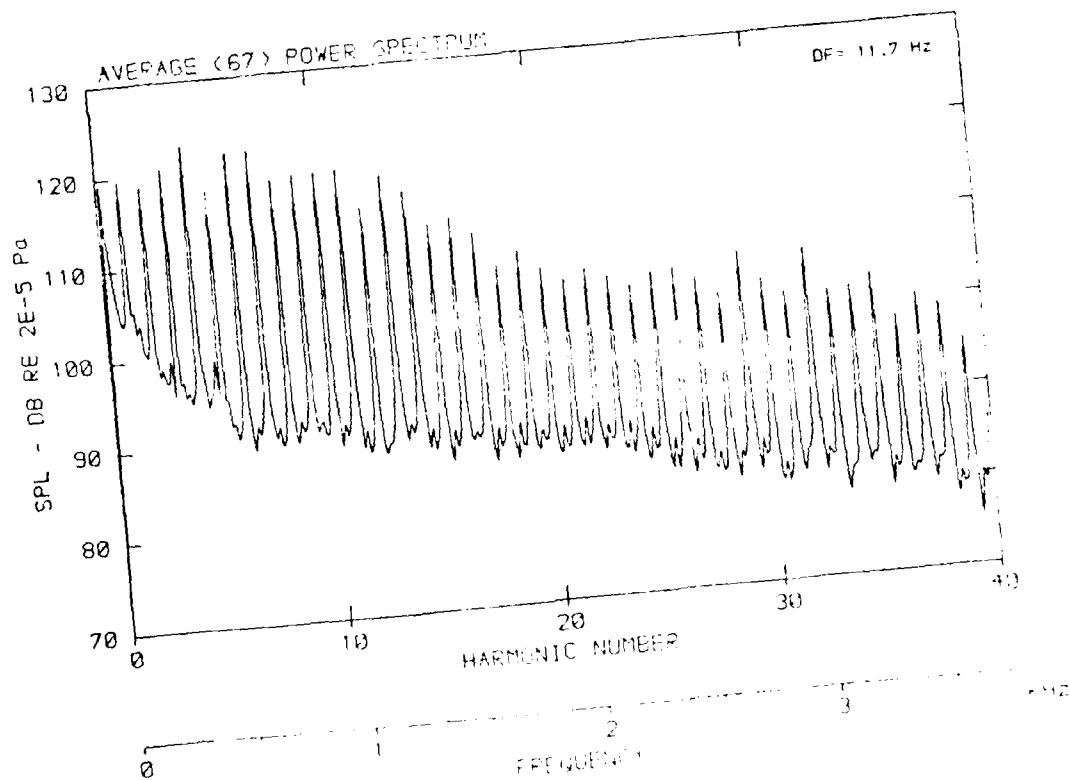
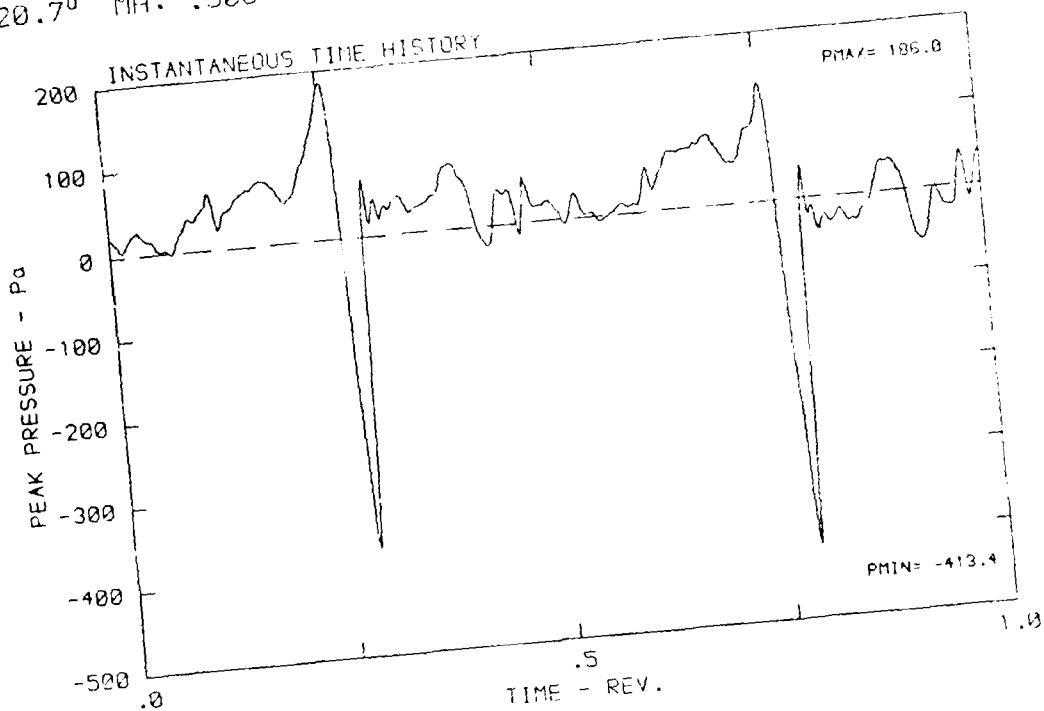


β : 20.7° MH: .9064 n: 2800 rpm v/u: .260 ϕ : .0° T: 286.9 K



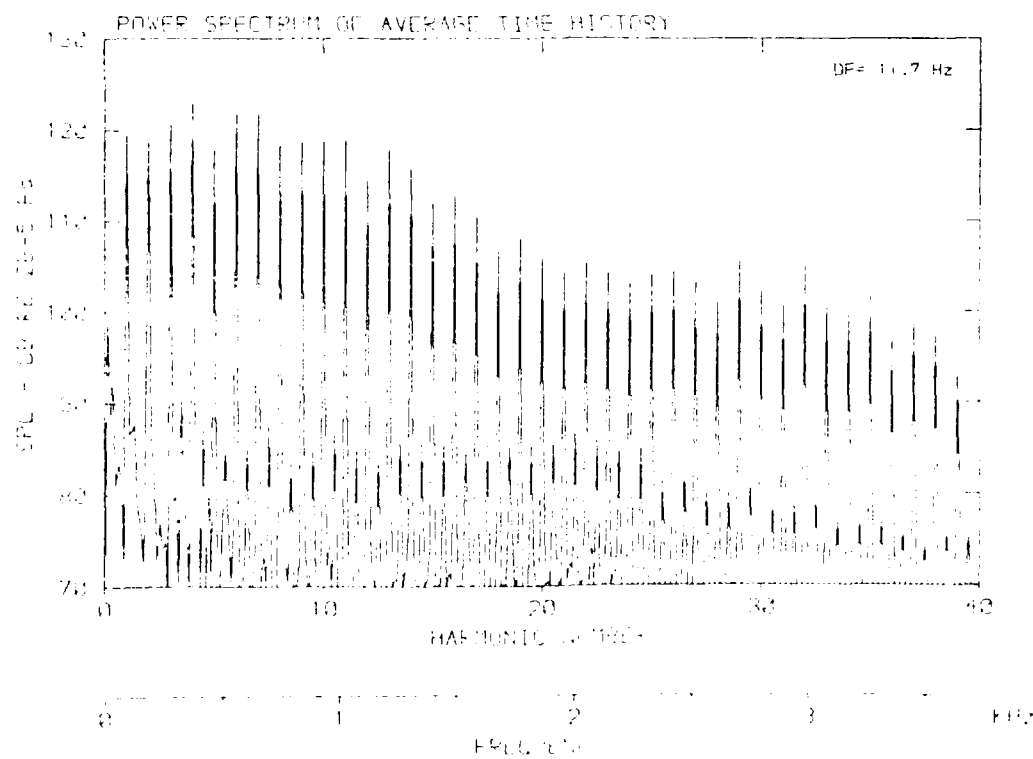
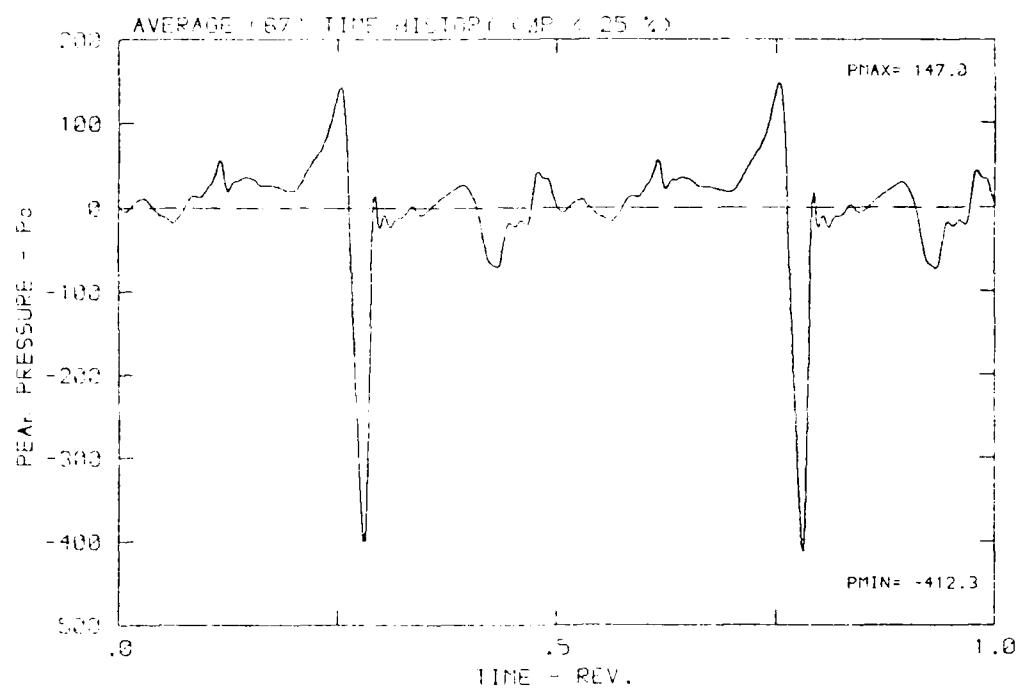
DATA POINT: BC-61 RUN: 71 MP: 5

β : 20.7° MH: .9064 n: 2800 rpm v/u : .200 ϕ : .0° I: 286.9 A



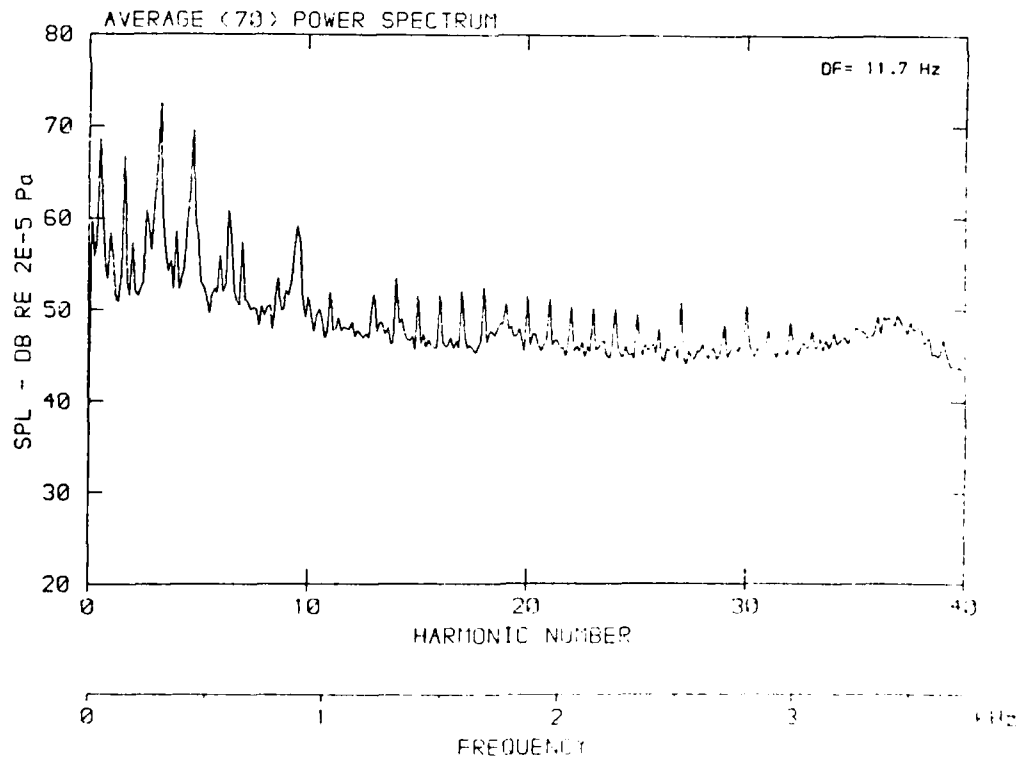
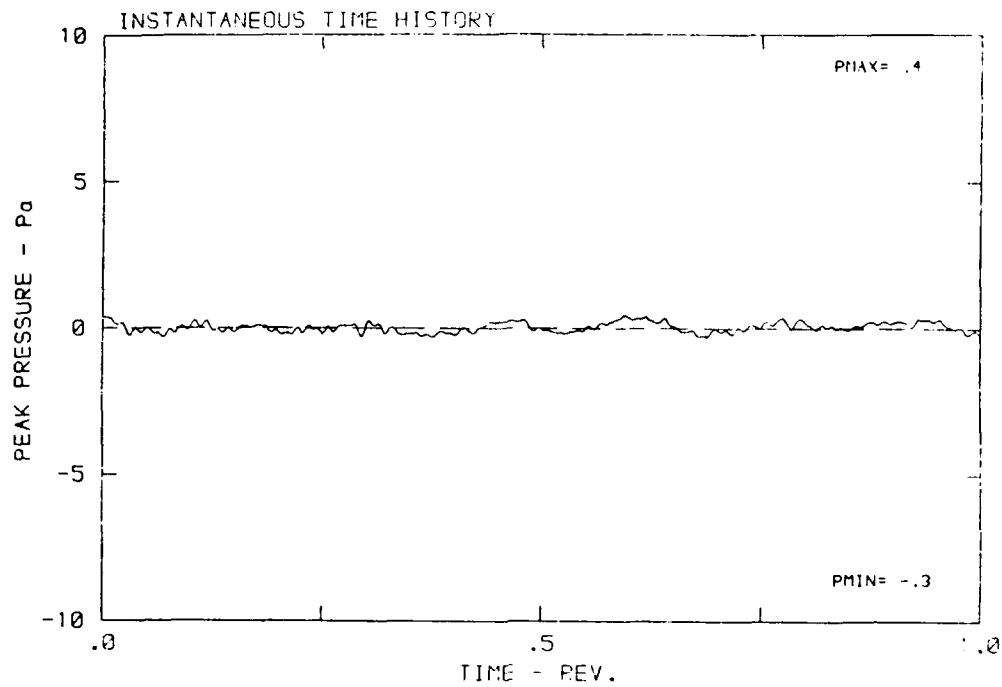
DATA POINT: 80-51 RUN: 71 MP: 5

β : 20.7° MH: .906+ n: 2800 rpm ν : .260 ϕ : .0° T: 286.9 K



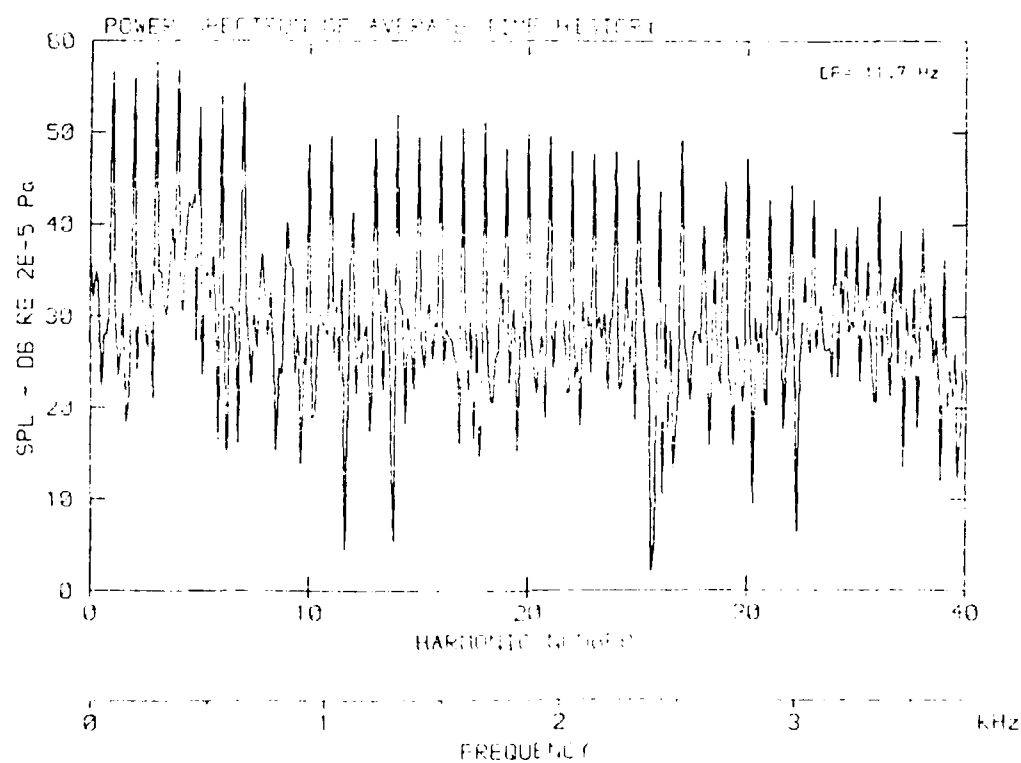
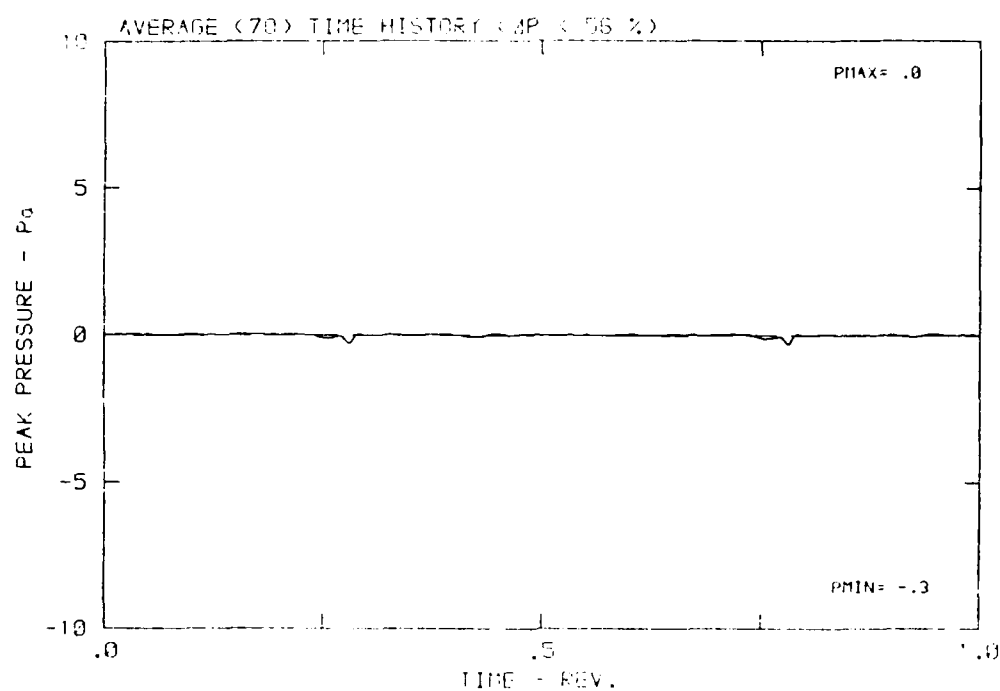
DATA POINT: BC-61 RUN: 71 MP: 6

β : 20.7° MH: .9364 n: 2800 rpm v/u : .260 ϕ : .0° T: 295.9 K



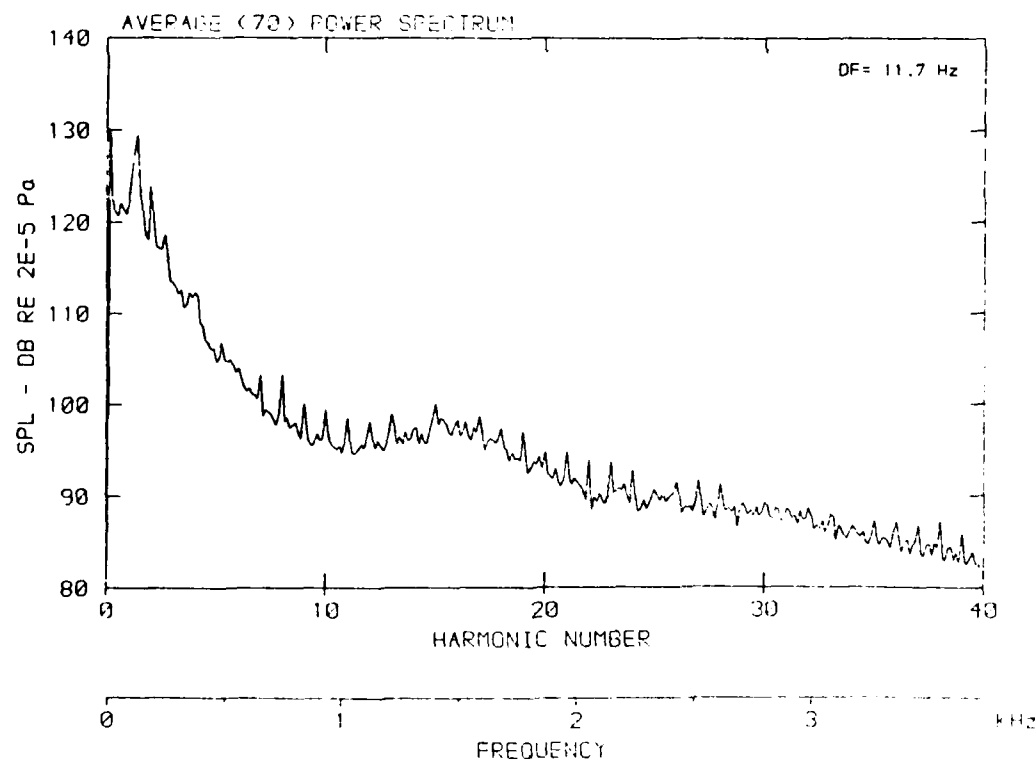
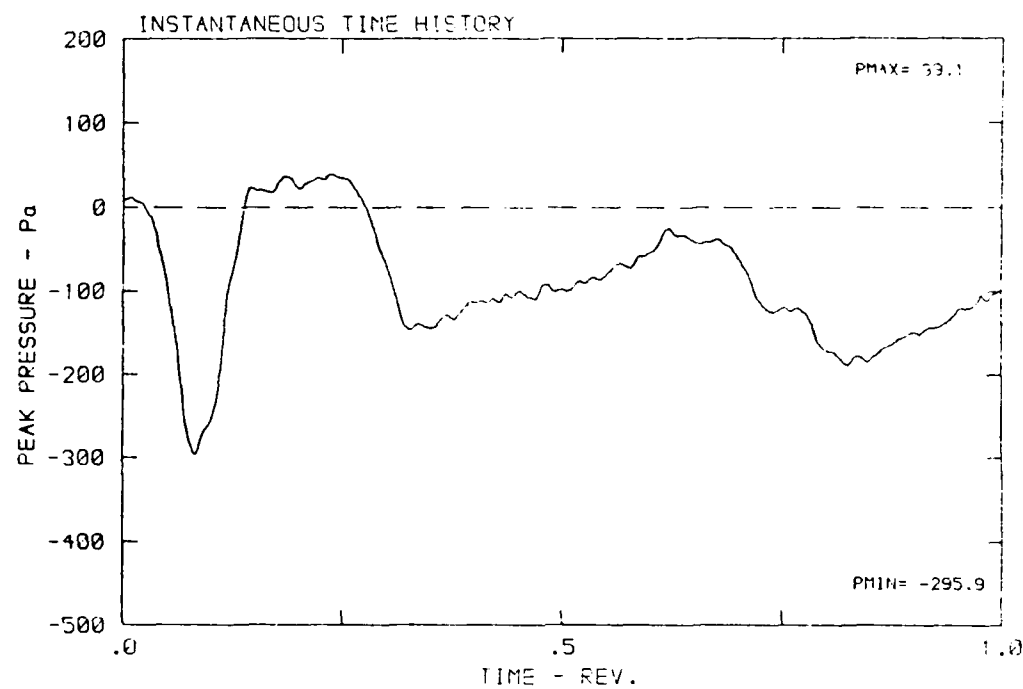
DATA POINT: BC-61 RUN: 71 MP: 6

β : 20.7° RH: .9864 n: 2800 rpm ν_{ro} : .260 ϕ : .0° T: 286.9 K



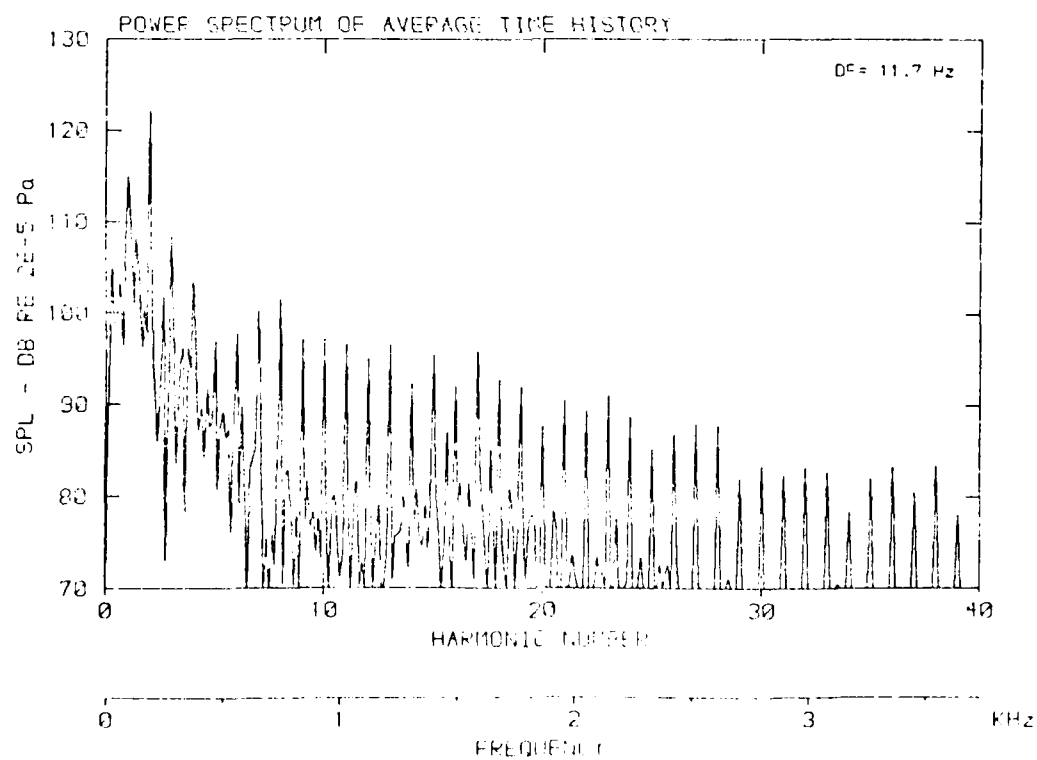
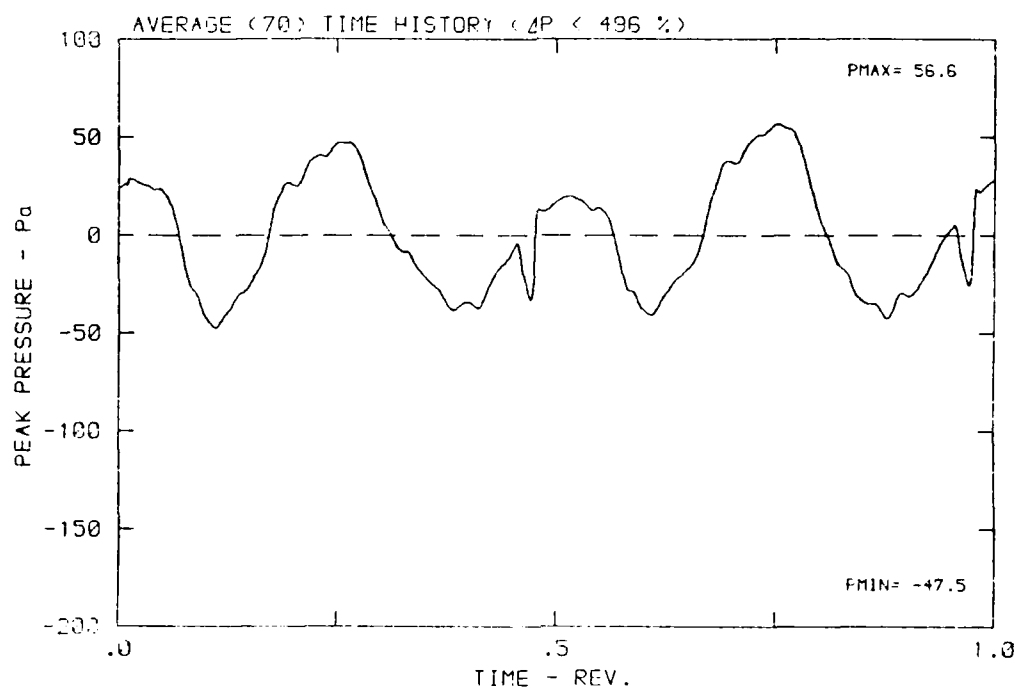
DATA POINT: BC-S1 RUN: 71 MP: 7

β : 20.7° MH: .9064 n: 2800 rpm v/u : .260 ϕ : .0° T: 285.9 K



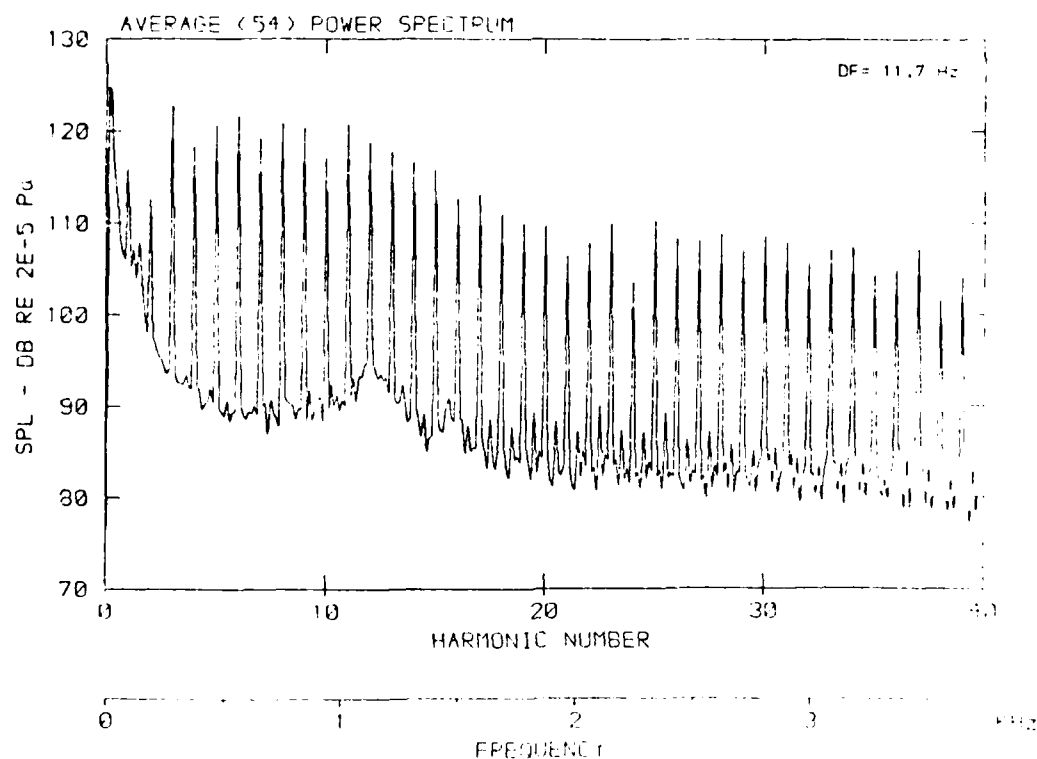
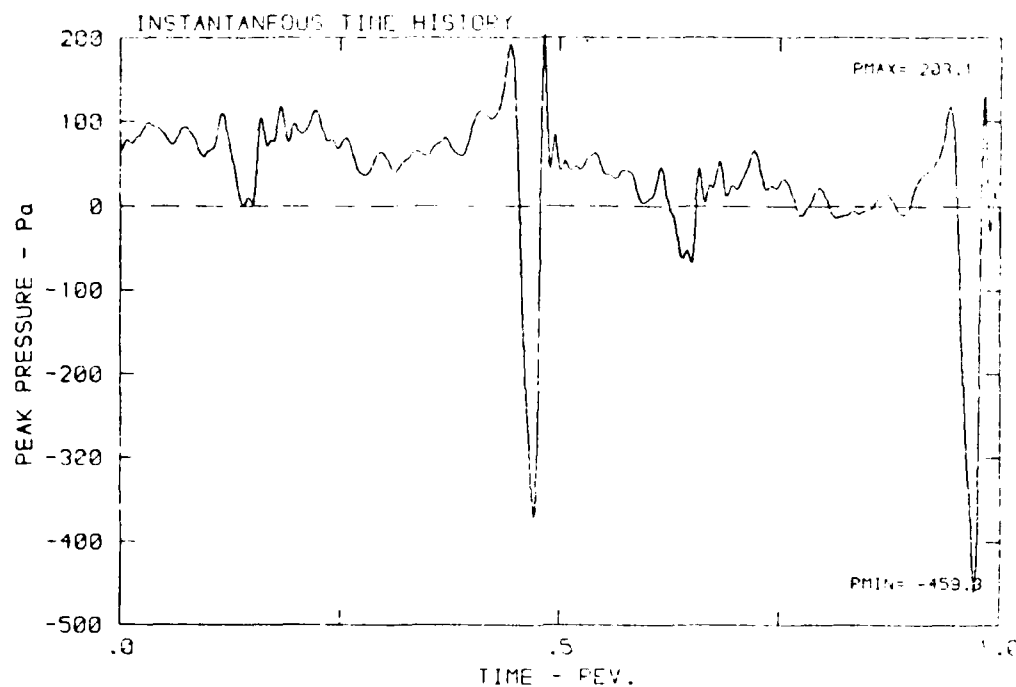
DATA POINT: BC-61 RUN: 71 MP: 7

β : 20.7° MH: .9064 n: 2800 rpm v/u : .260 ϕ : .0° T: 286.9 K



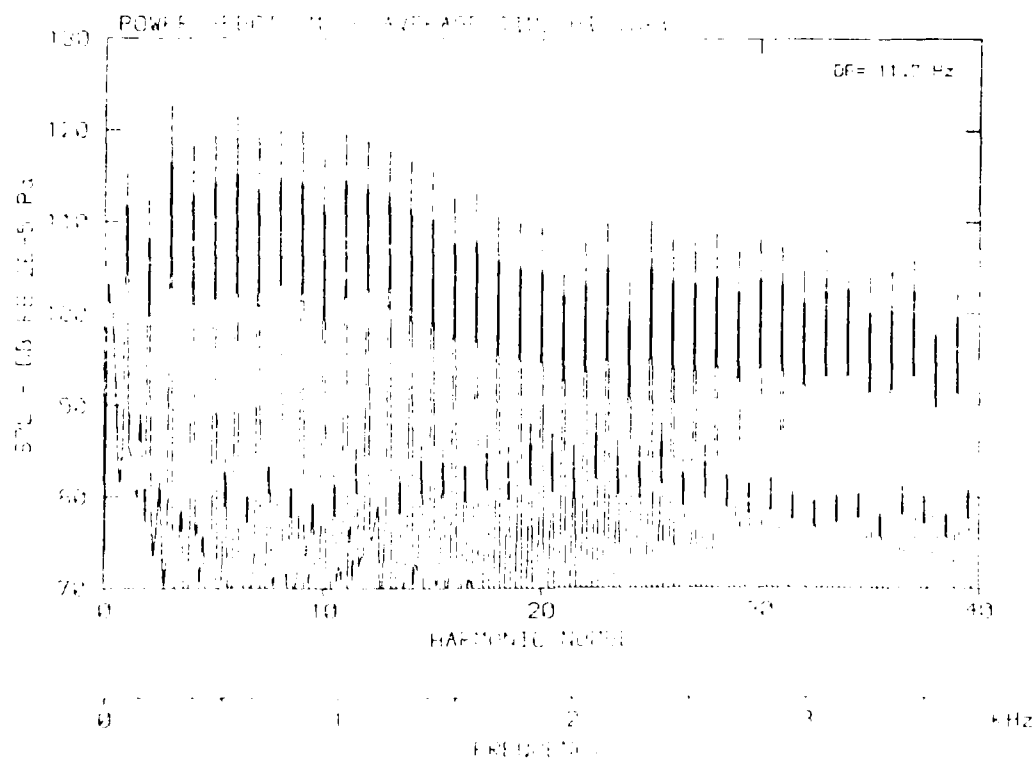
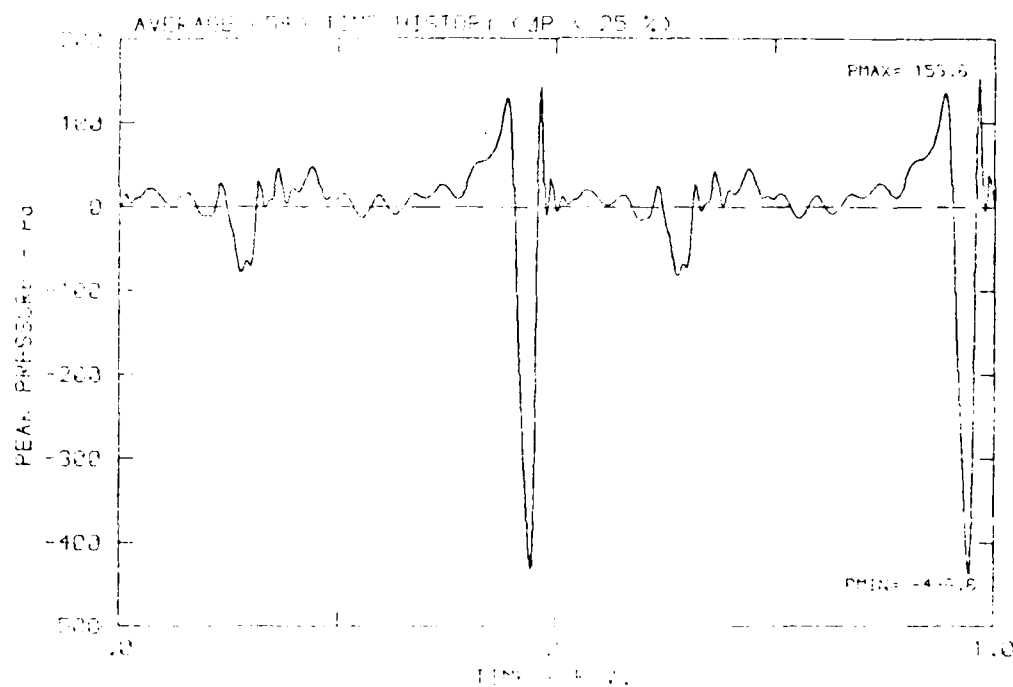
DATA POINT: BC-61 RUN: 71 MP: 3

β : 20.7° RH: .9864 n: 2500 rpm V u: .260 ϕ : .0° T: 100.0°



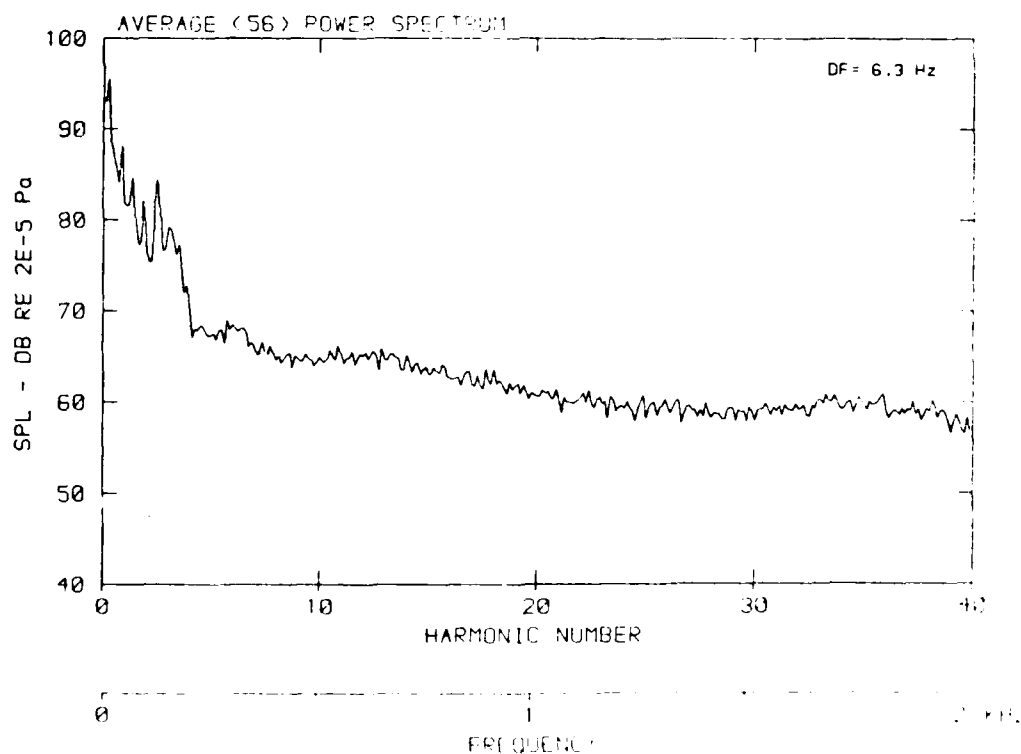
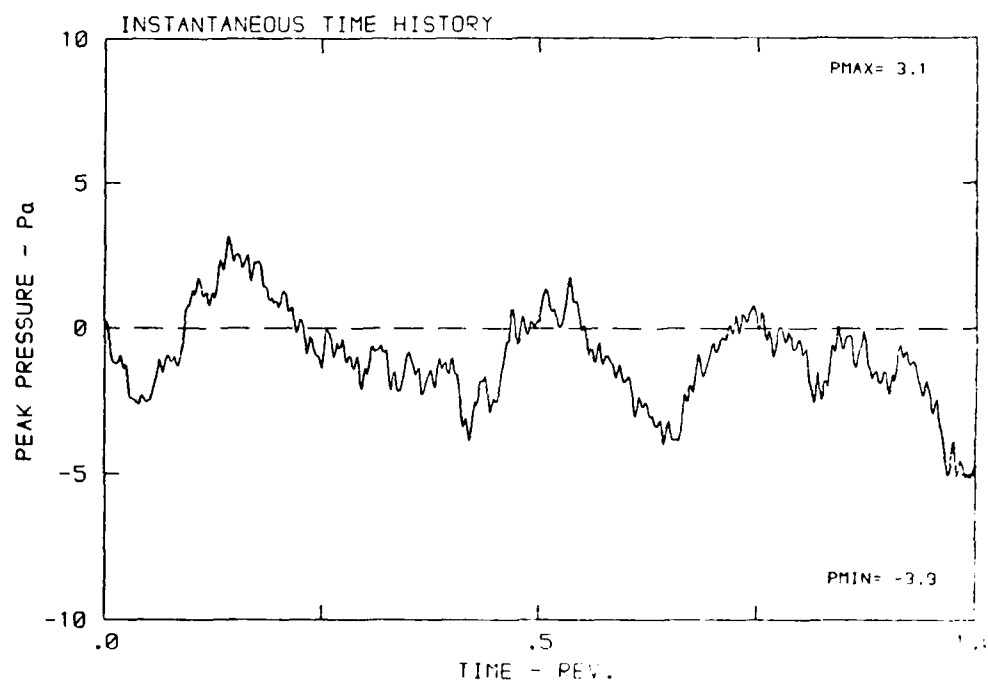
DATA POINTS: BT-61 RUN: 71 MP: 9

β : 20.00 MHz .0004 γ : 2000 rpm ν : .260 ϕ : .00 T: 285.9 K



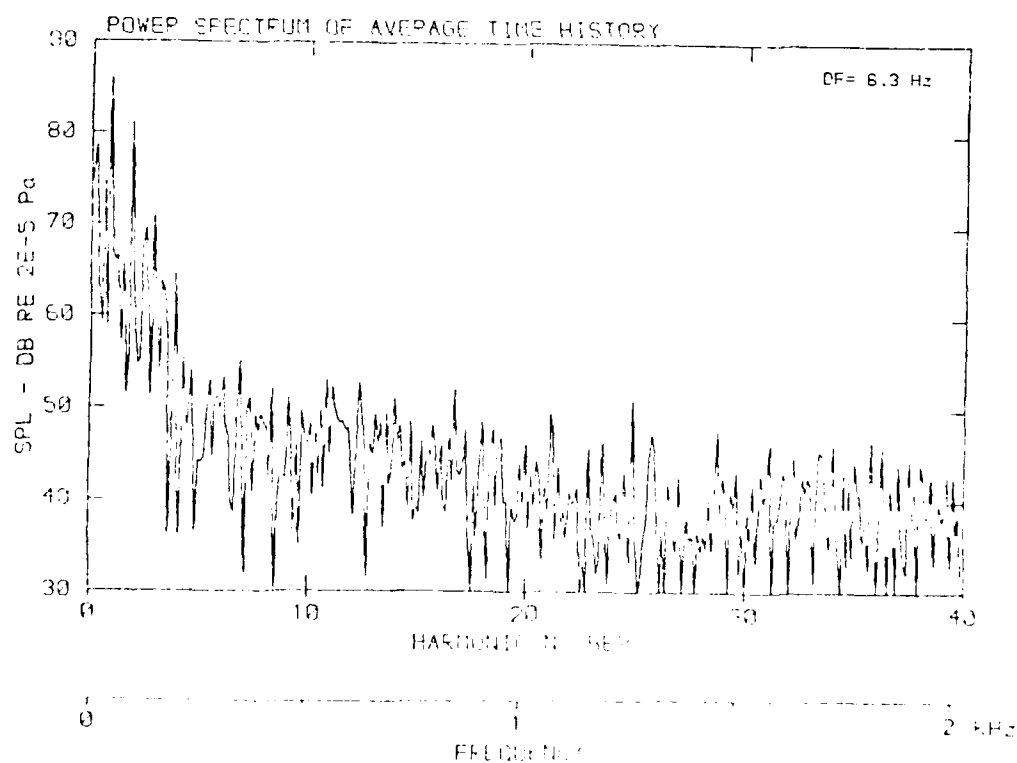
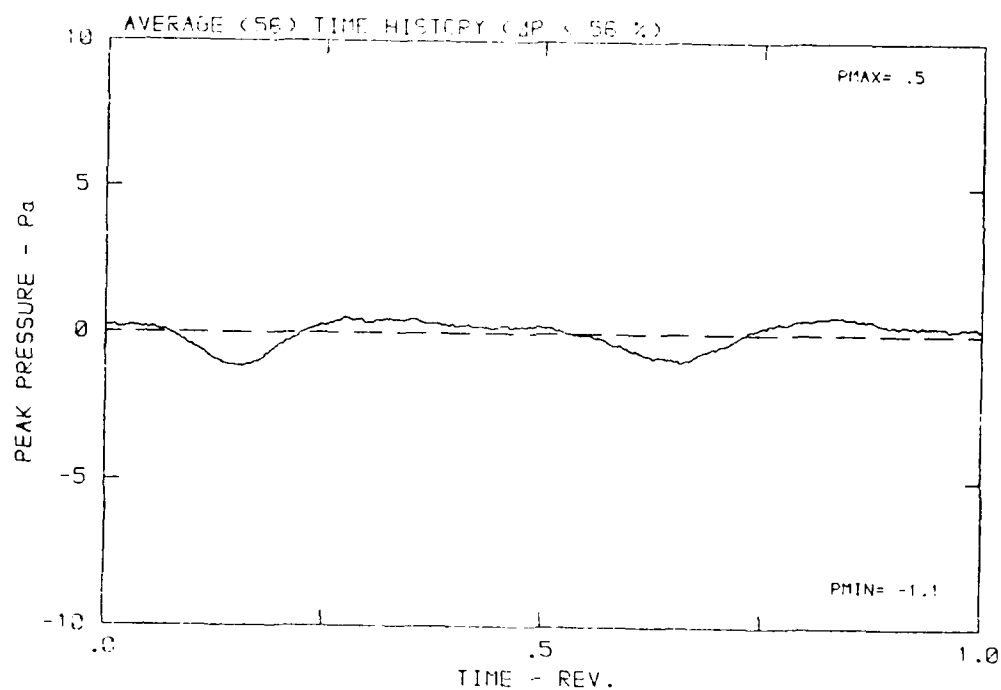
DATA POINT: BC-7 RUN: 74 MP: 1

β : 20.7° MH: .5006 n: 1522 rpm v_{ru} : .317 ϕ : .0° T : 286.4 K



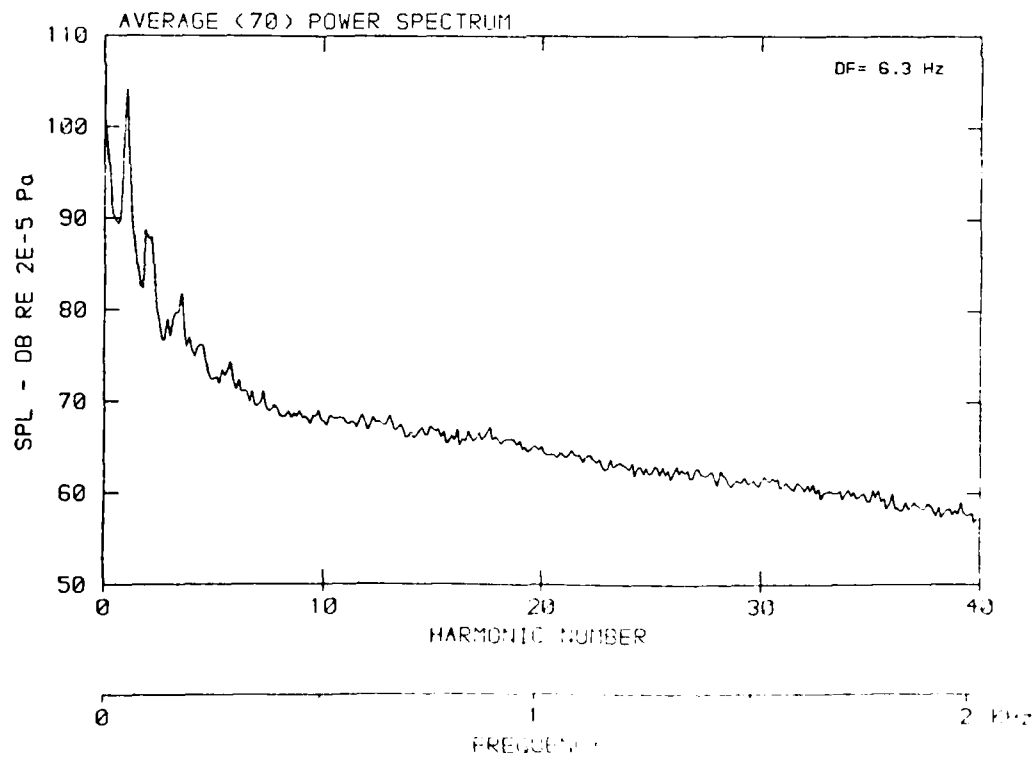
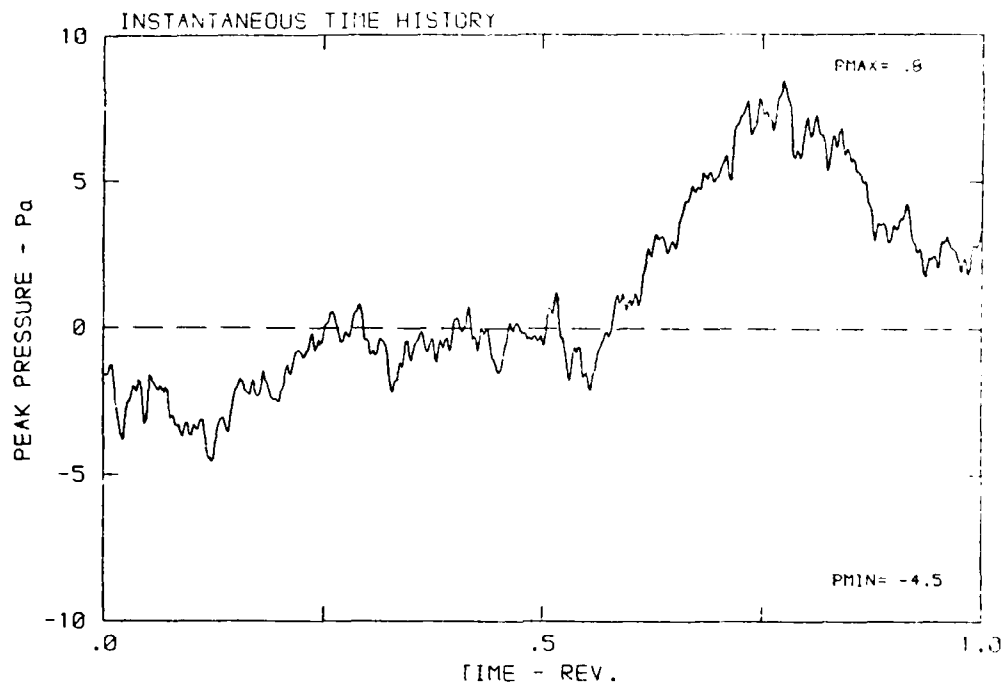
DATA POINT: BC-7 RUN: 74 NP: 1

β : 20.7° RH: .5006 n: 1522 rpm γ : .317 ϕ : .0° T: 266.4 s



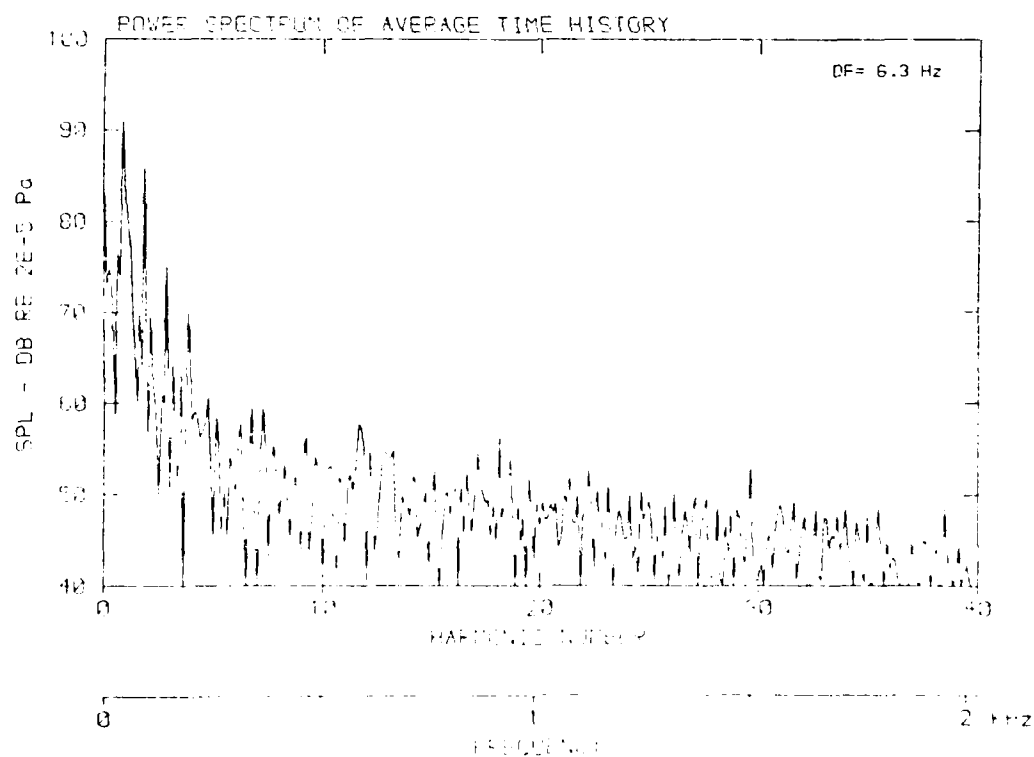
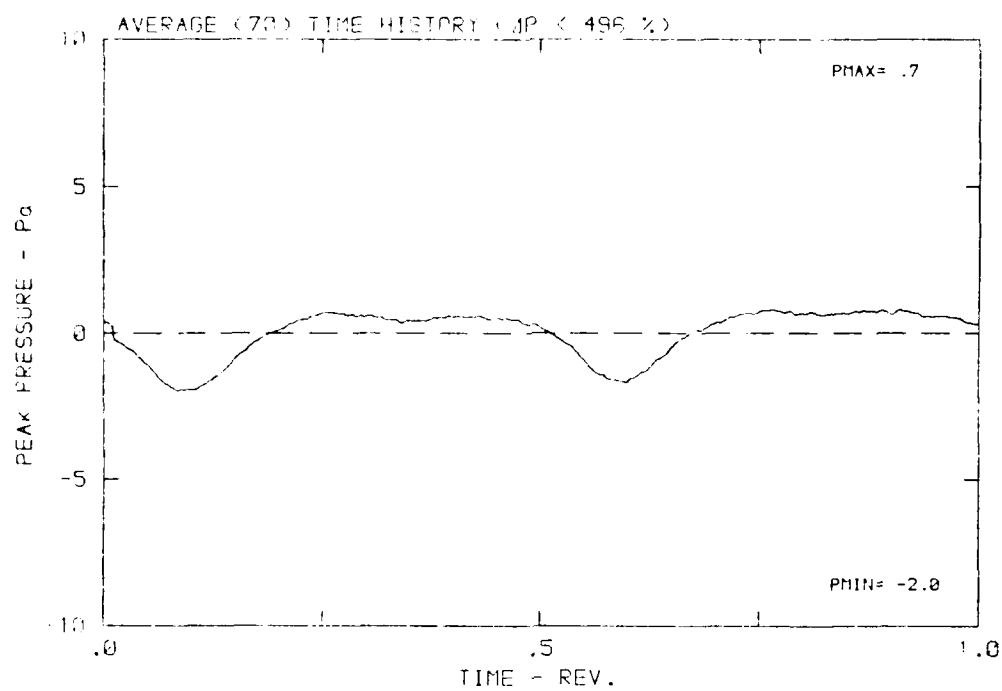
DATA POINT: BC-7 RUN: 71 NP: 2

β : 20.7° MH: .5006 n: 1522 rpm ν : .517 ρ : .0³ T: 266.4 K



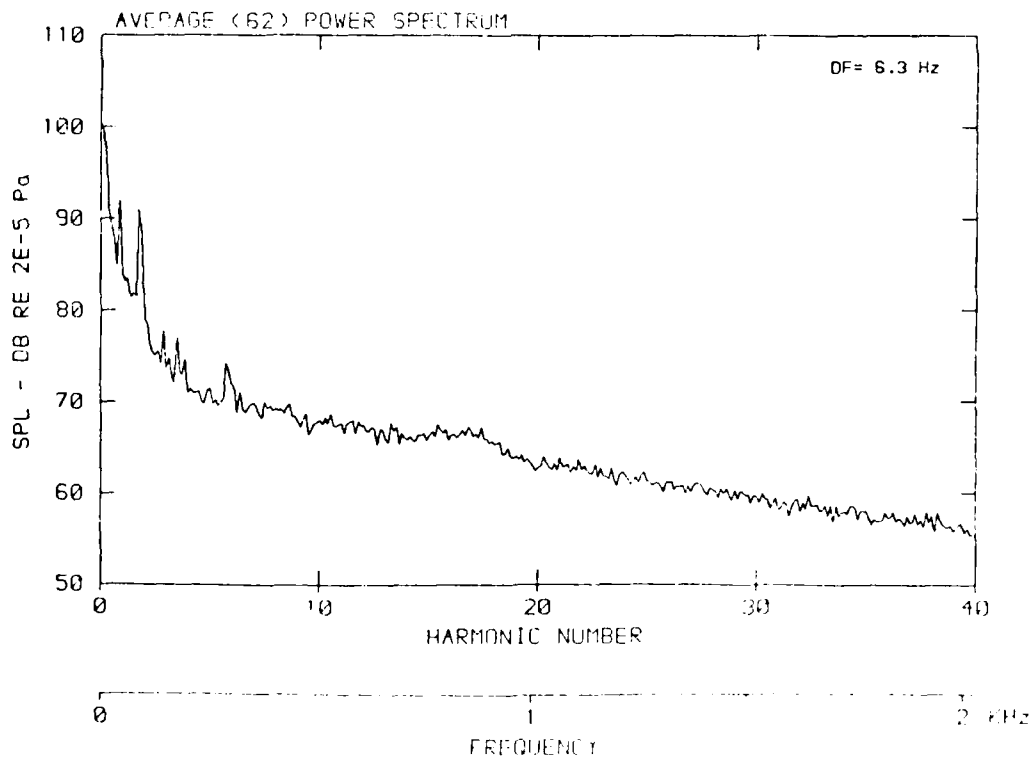
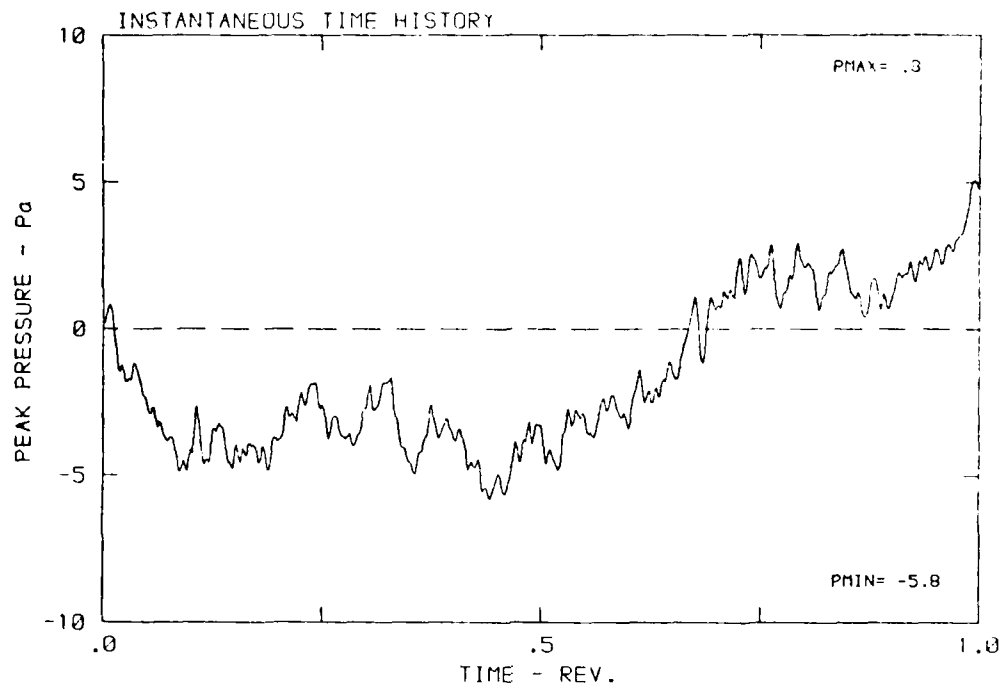
DATA POINT: BC-7 RUN: 74 MP: 2

β : 20.7° MH: .5006 n: 1522 rpm v/u : .317 ϕ : .0° T: 286.4 K



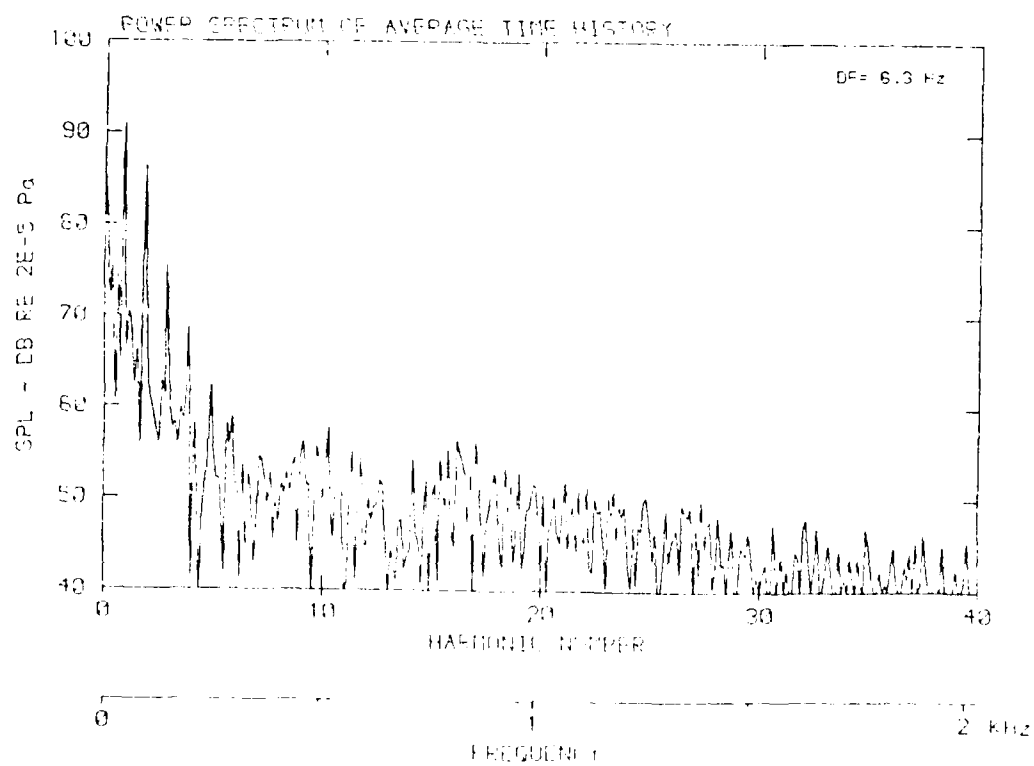
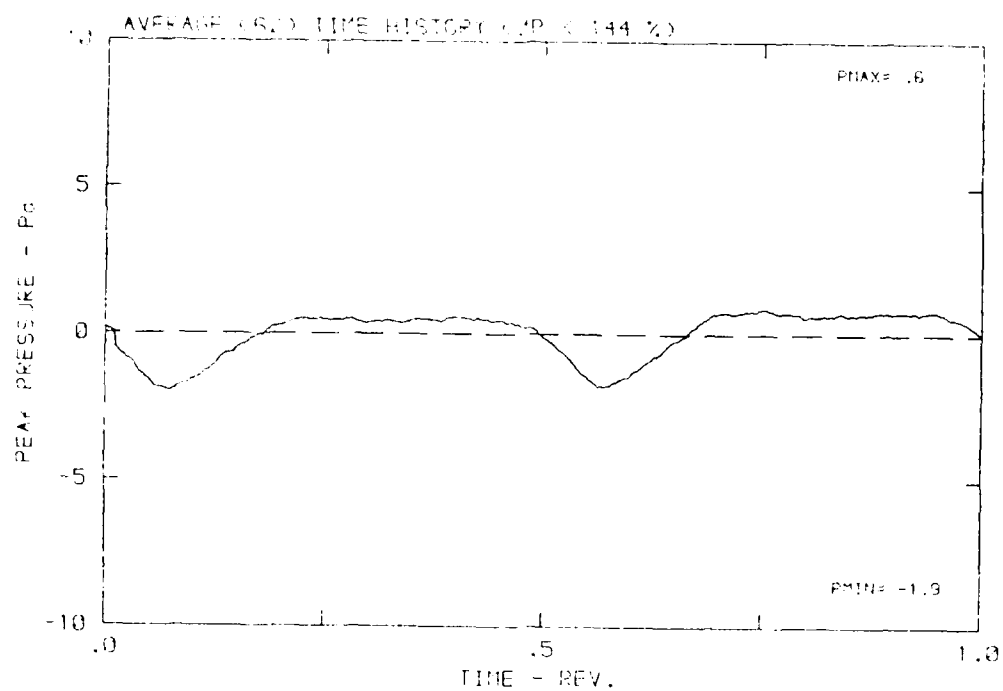
DATA POINT: BC-7 RUN: 74 MP: 3

β : 20.7° MH: .5006 n: 1522 rpm v/u : .317 ϕ : .0° T: 255.4 K



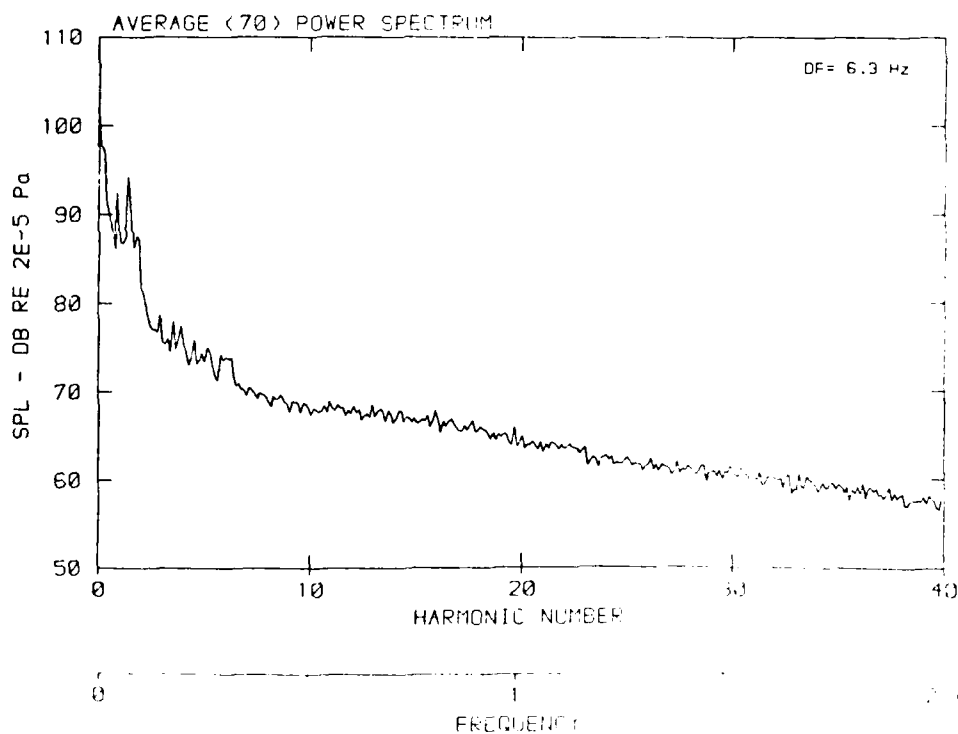
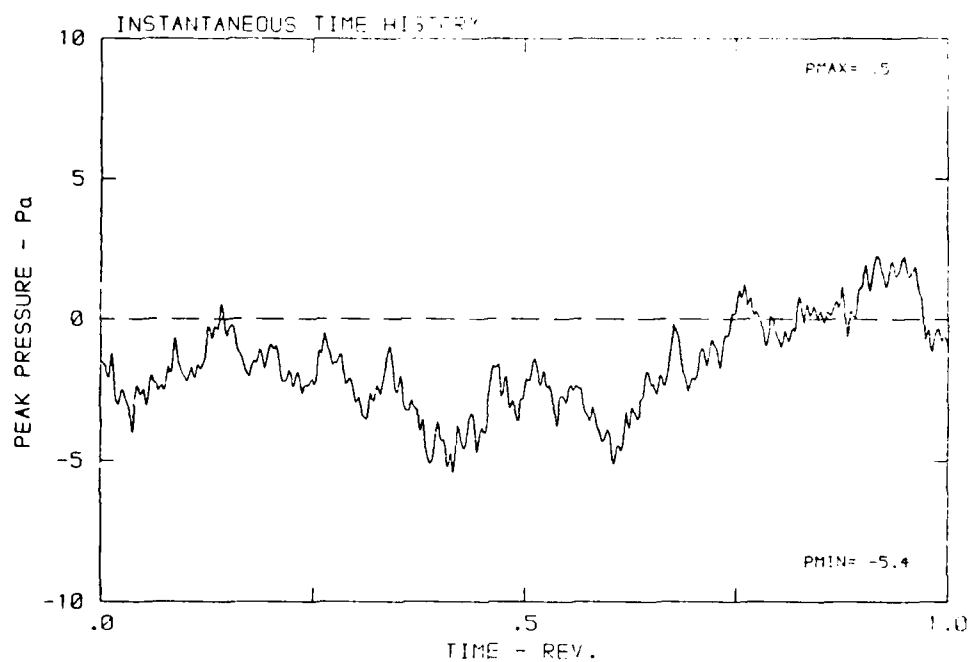
DATA POINT: PC-7 RUN: 74 MP: 3

β : 20.7° MH: .5000 n: 1522 rpm V₁₀₀: .317 ϕ : .0° T: 295.4 K



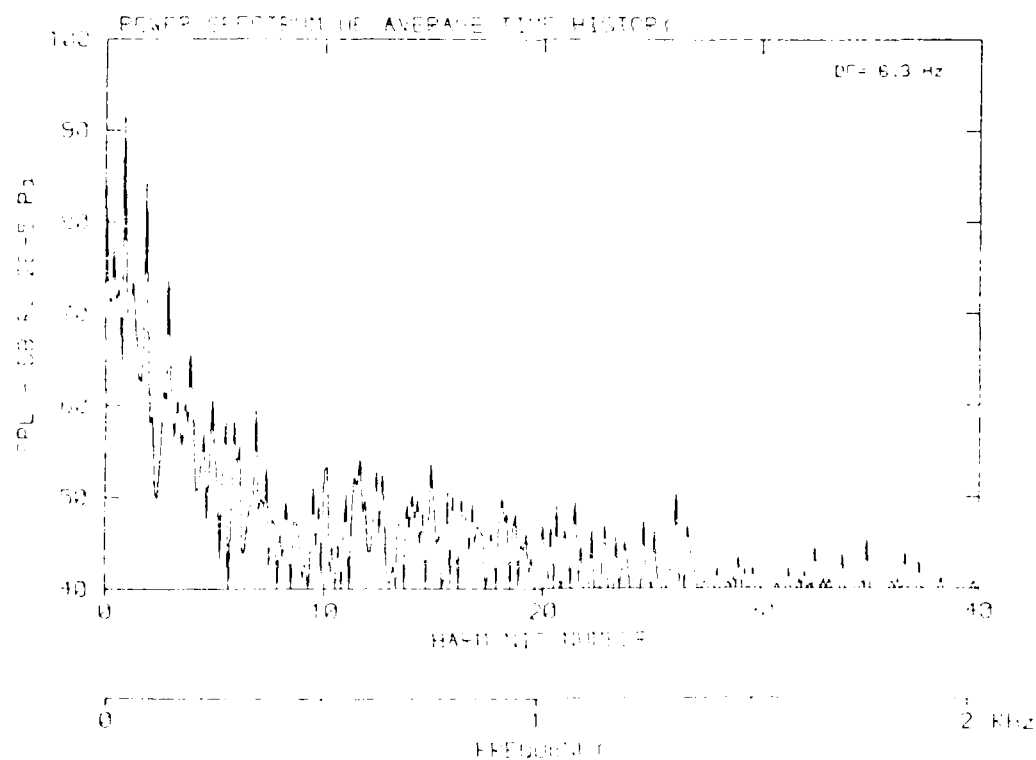
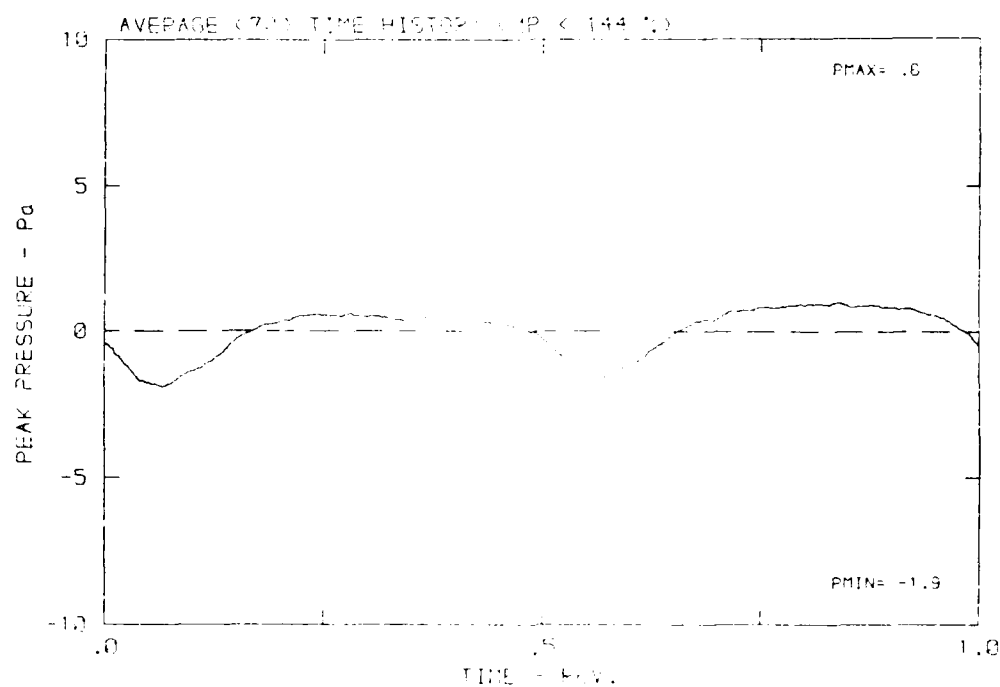
DATA POINT: BC-7 RUN: 24 TYP: 4

β : 20.7° MH: .5006 n: 1500 rpm μ : .007 ϕ : .5° T: 138.4



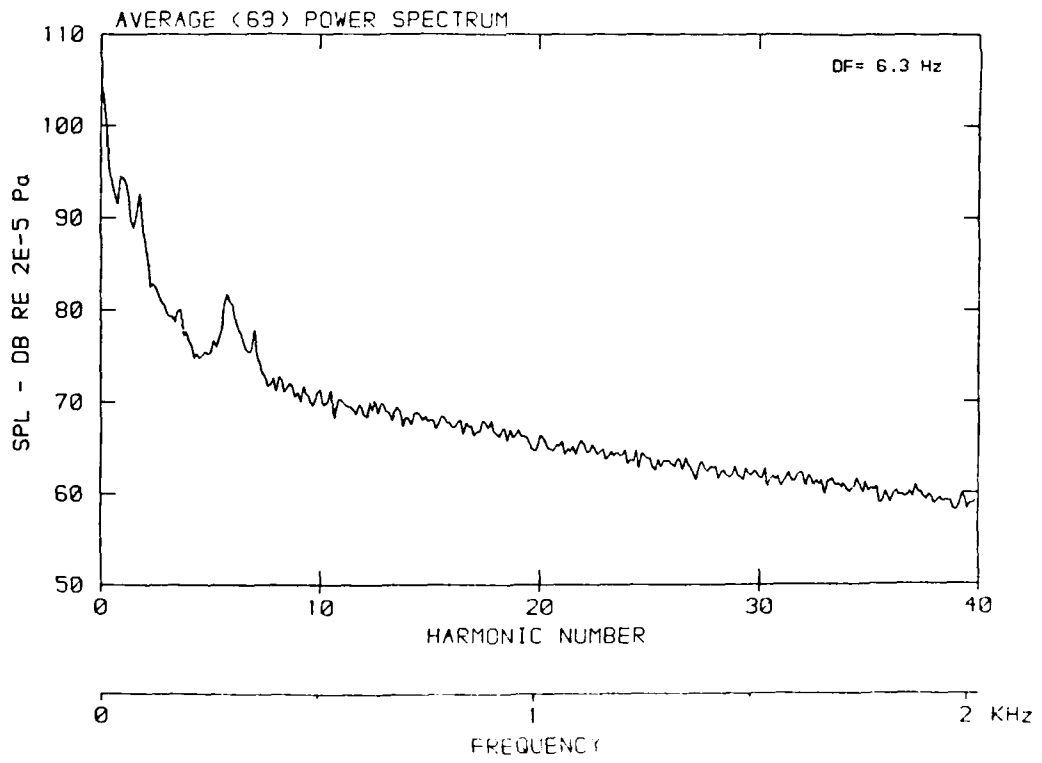
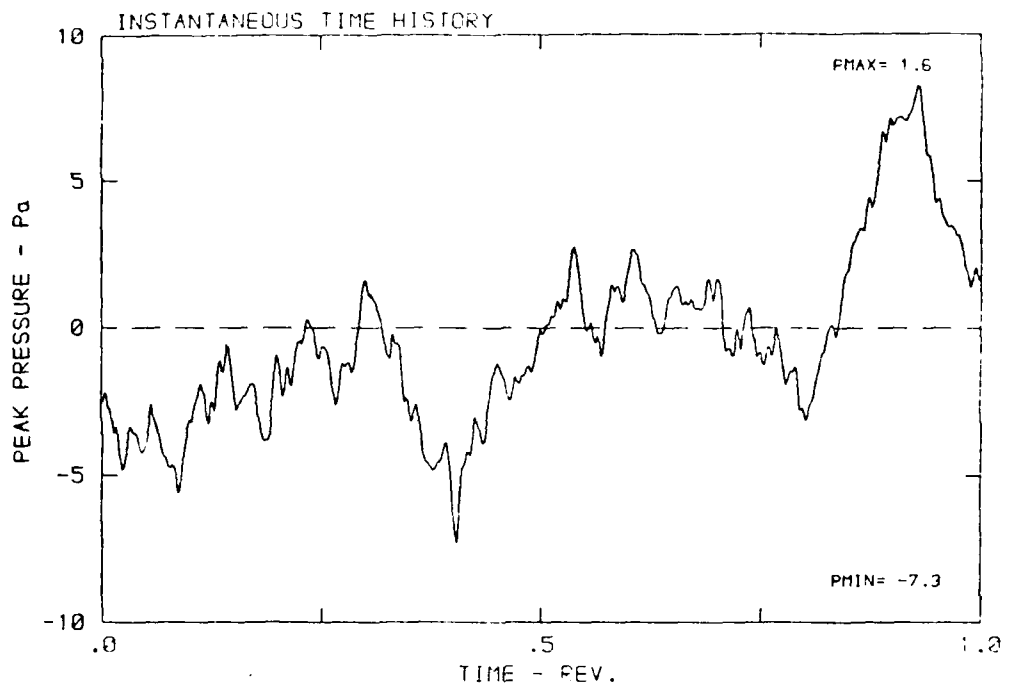
DATA POINT: BC-7 RUN: 74 MP: 4

β : 20.7° MH: .5036 n: 1522 rpm v/u : .317 ϕ : .0° T: 286.4 K



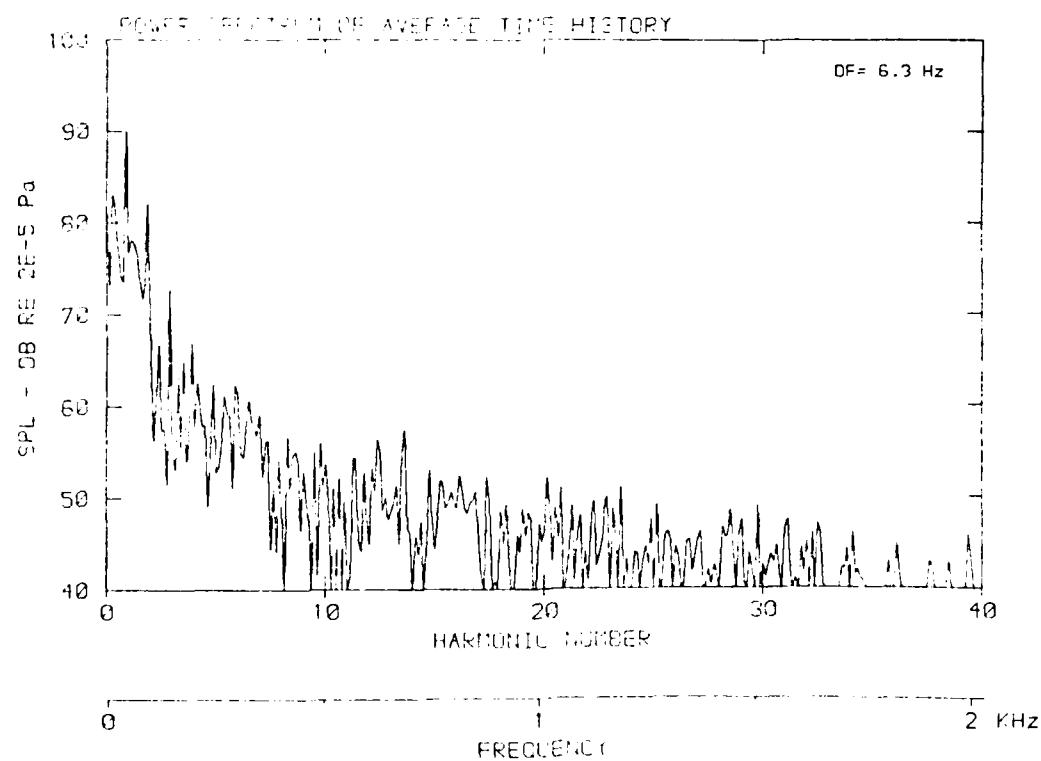
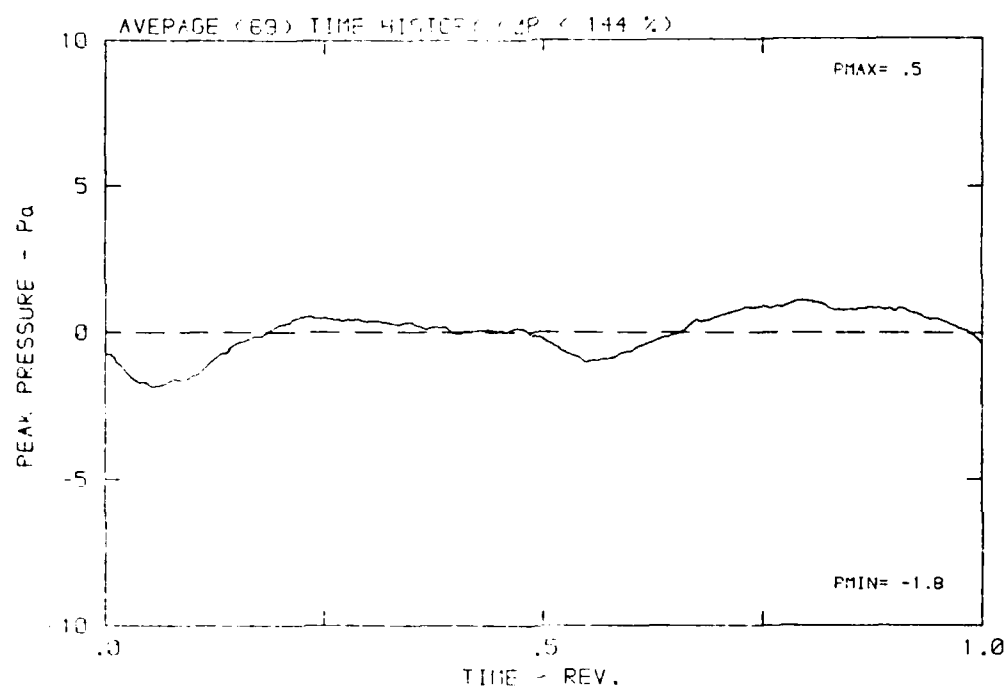
DATA POINT: BC-7 RUN: 74 MP: 5

β : 20.7° MH: .5006 n: 1522 rpm v/u : .317 ϕ : .0° T: 296.4 K



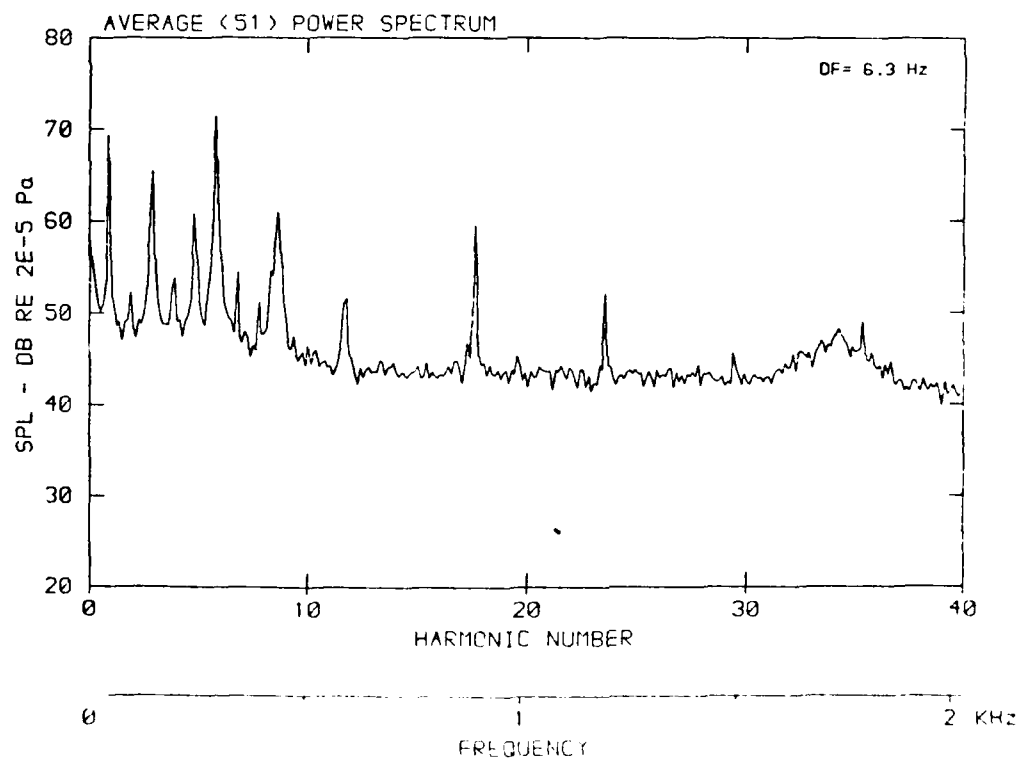
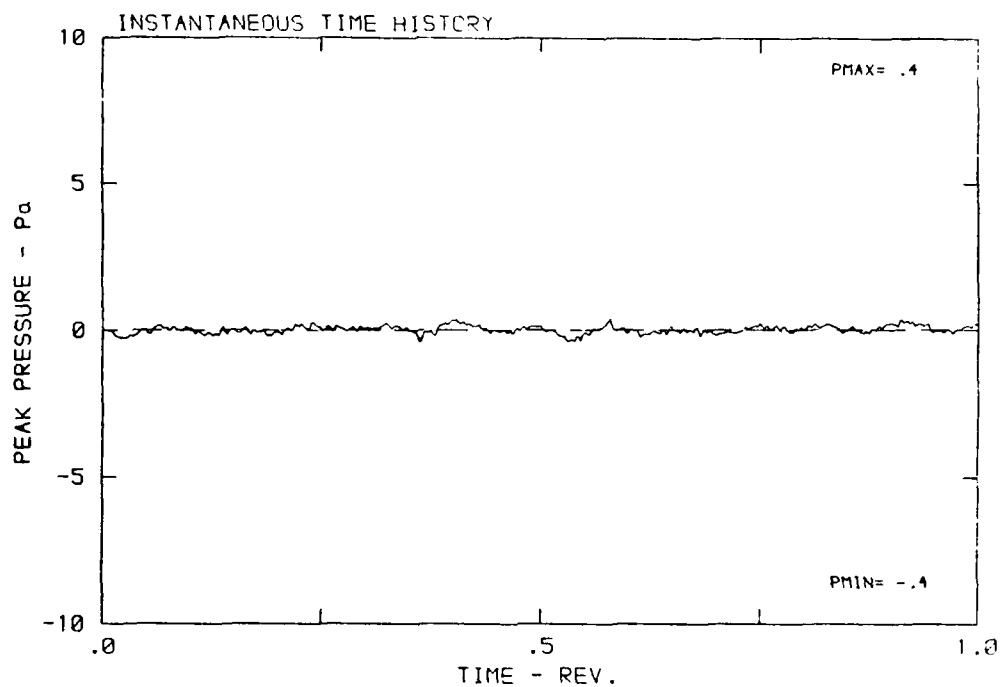
DATA POINT: BC-7 RUN: 74 MP: 5

β : 20.7° MH: .5006 n: 1522 rpm v/u : .317 ϕ : .0° T: 286.4 K



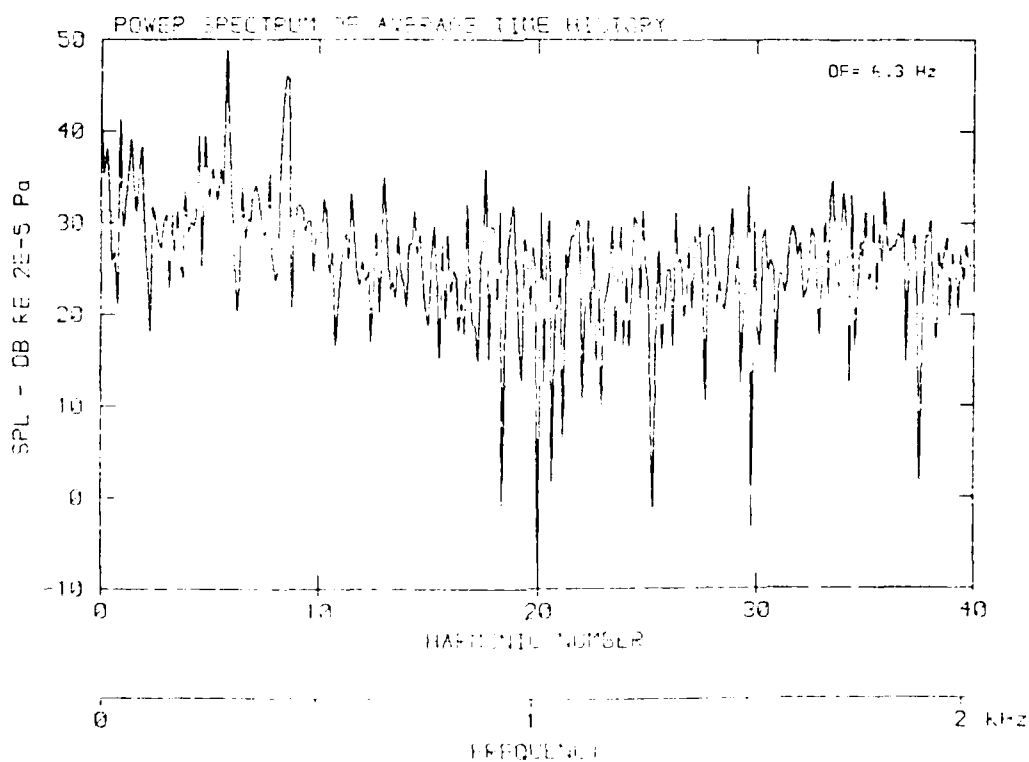
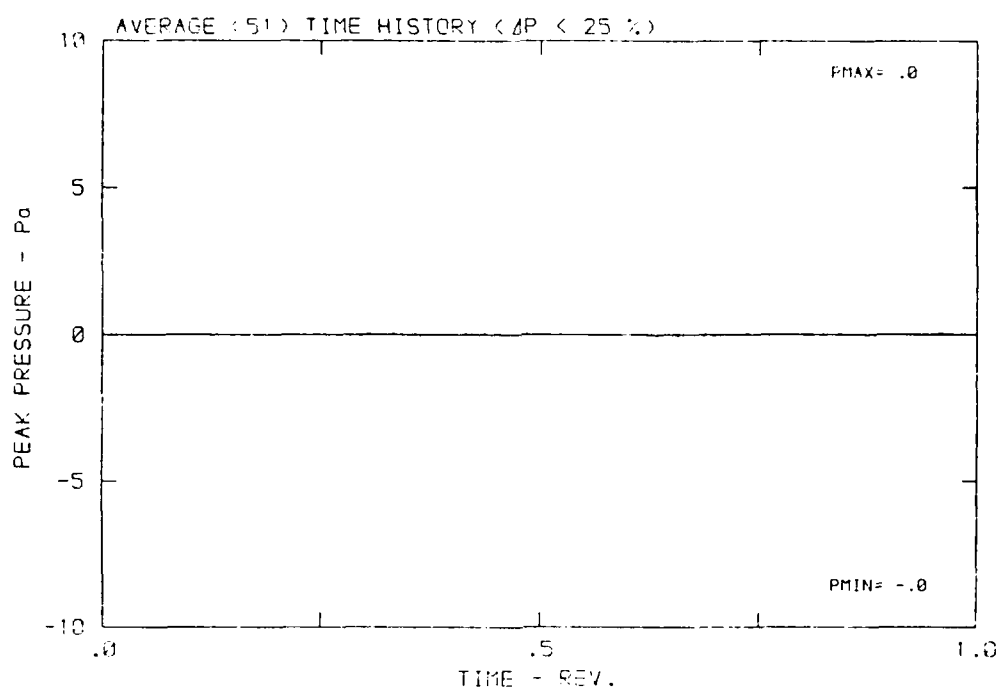
DATA POINT: BC-7 RUN: 74 NP: E

β : 20.7° NH: .5006 n: 1522 rpm ν : .317 ϕ : .8° T: 208.4 K



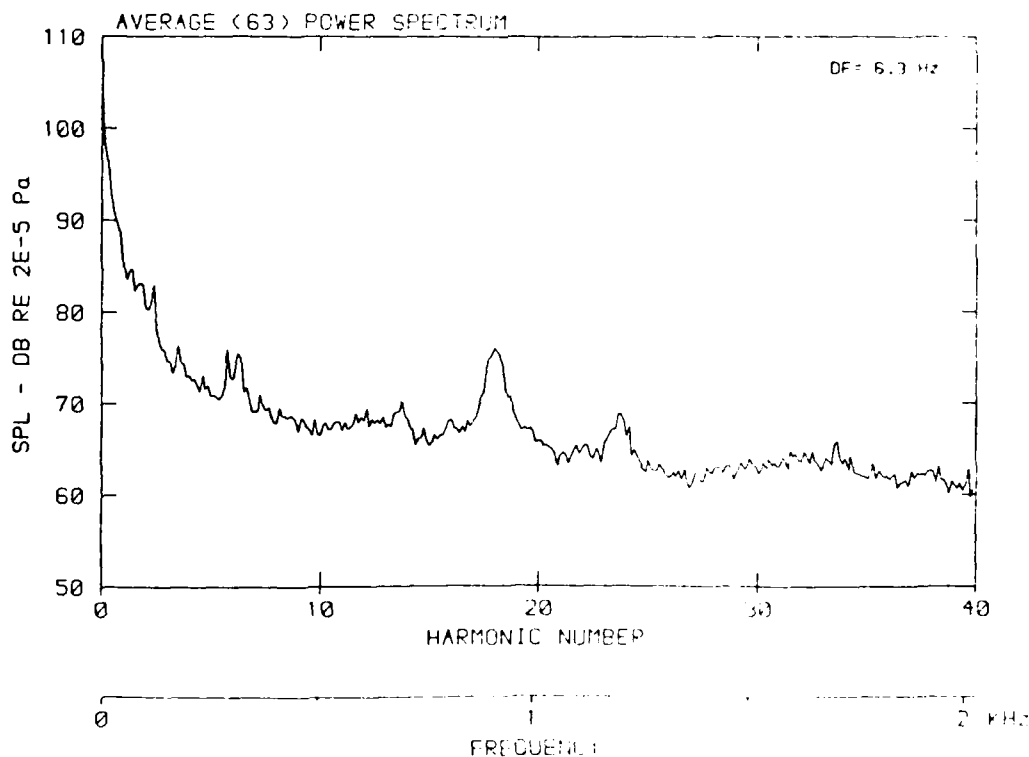
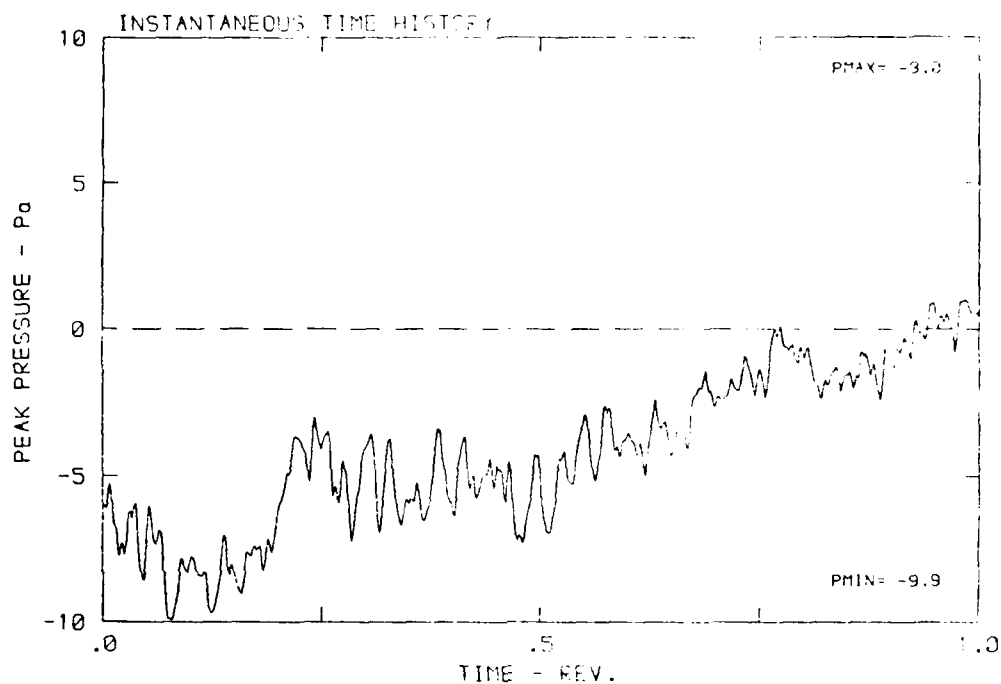
DATA POINT: BC-7 PUN: 74 MP: 6

β : 20.7° MH: .5006 n: 1522 rpm v/u : .317 ϕ : .0° T: 286.4 K



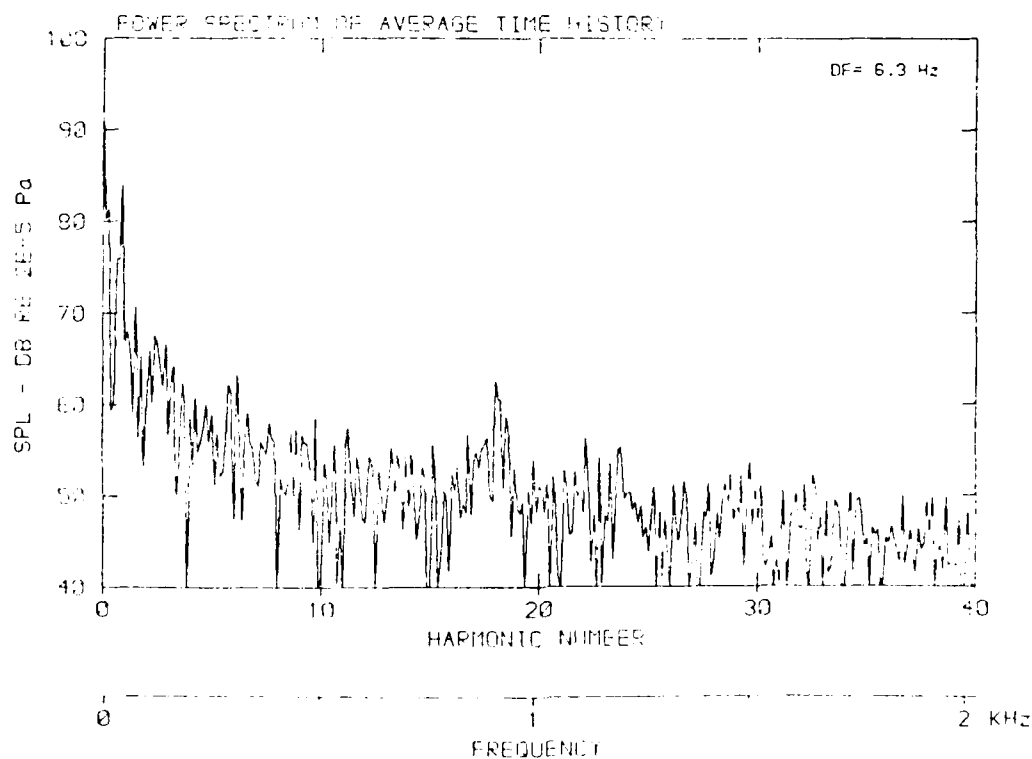
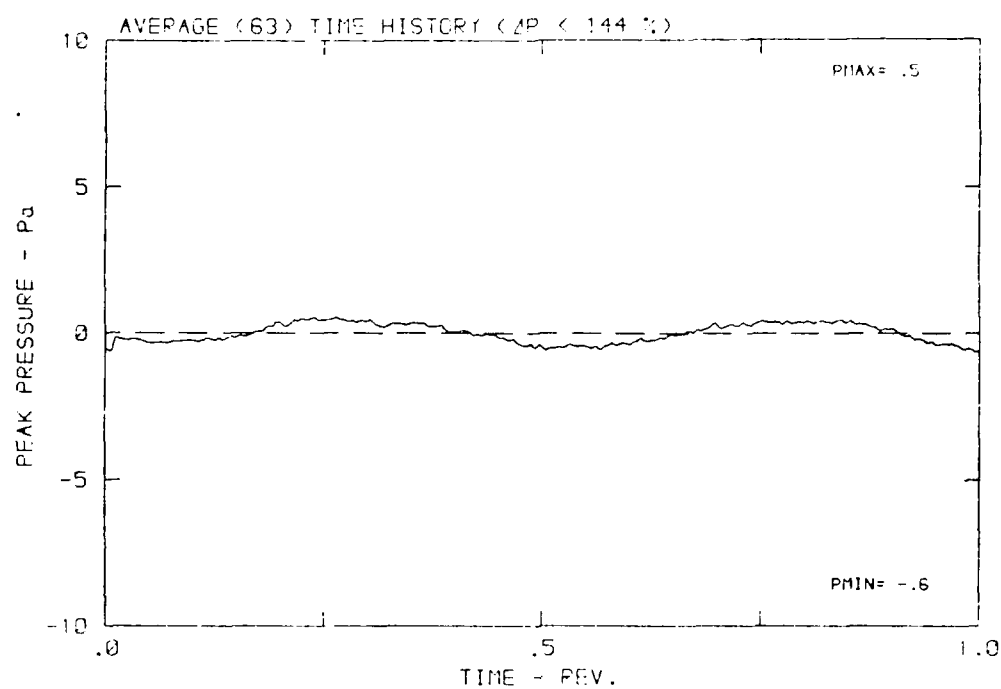
DATA POINT: BC-7 PNT: 14 MP: 7

β : 20.7° MH: .5006 n: 1520 μ : .001 ρ : .001 T: 118.4



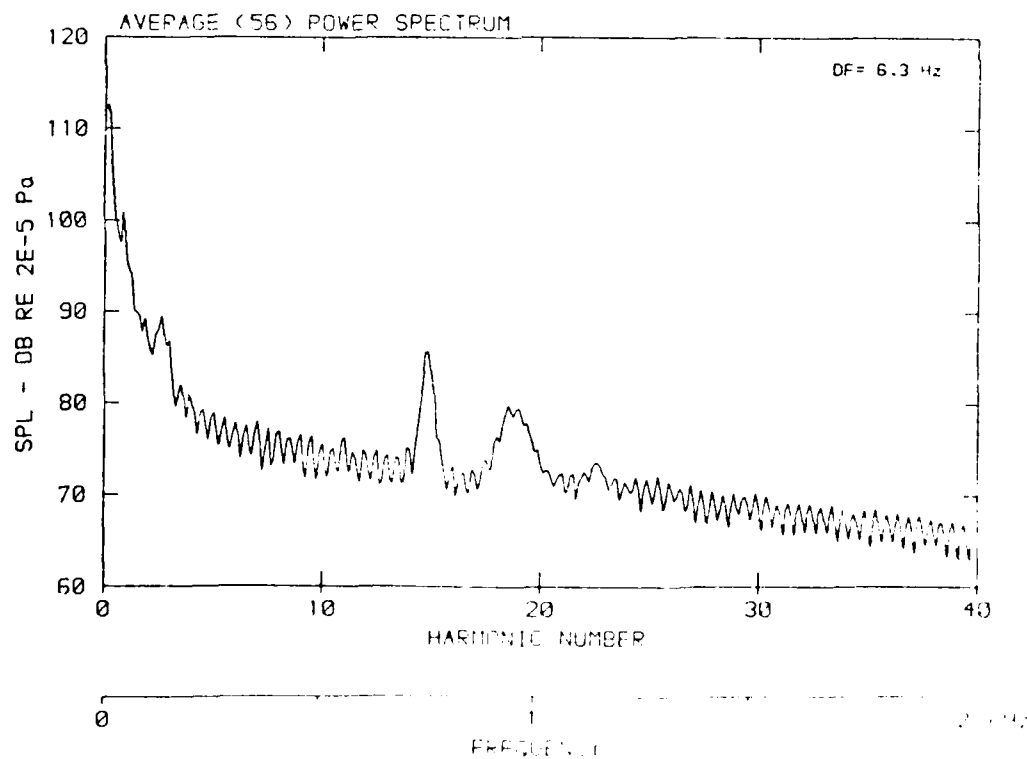
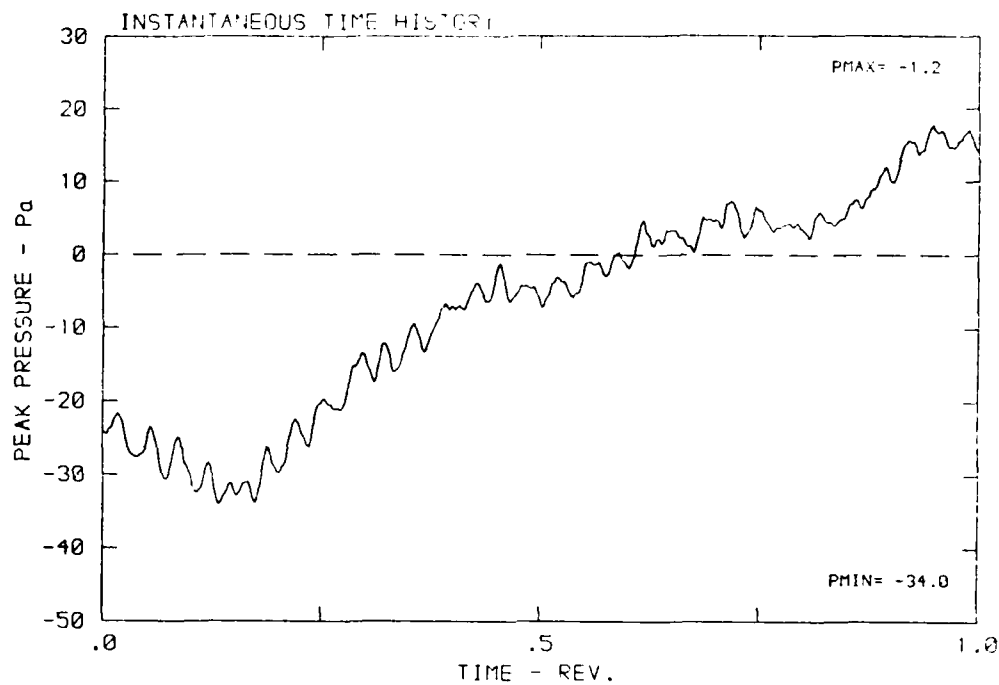
DATA POINT: BC-7 RUN: 74 MP: 7

β : 20.7° MH: .5006 n: 1522 rpm v/u : .317 ϕ : .0° T: 286.4 K



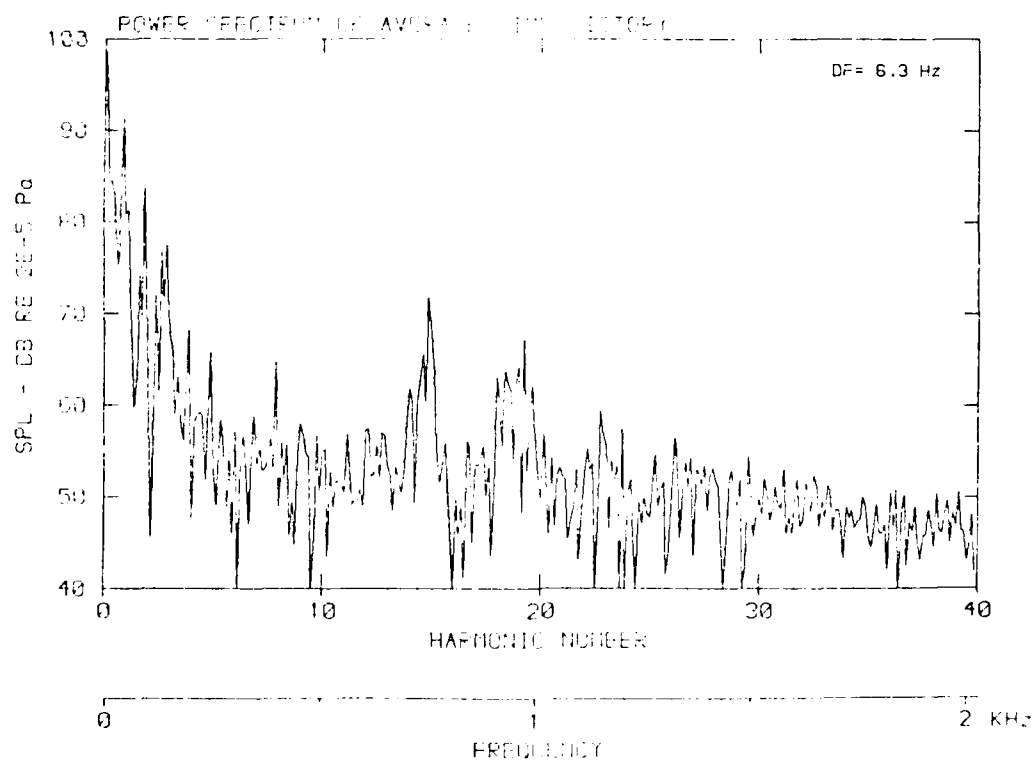
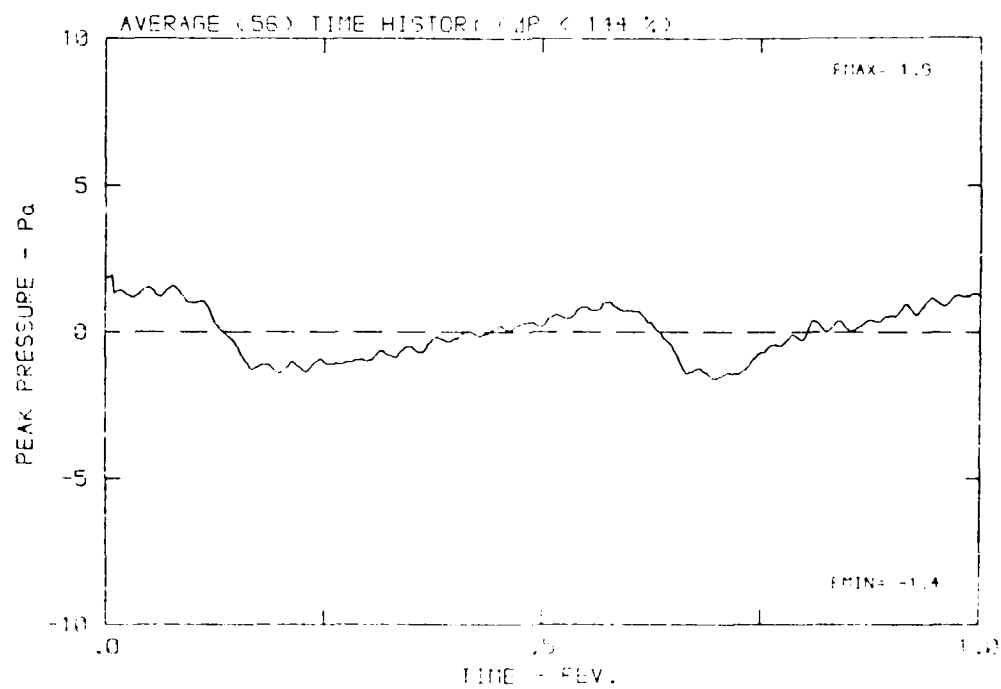
DATA POINT: BC-7 PIN: 74 HP: 4

β : 20.7° MH: .5006 n: 1522 rpm λ : .0: .317 ϕ : .0° T: 1.48.4



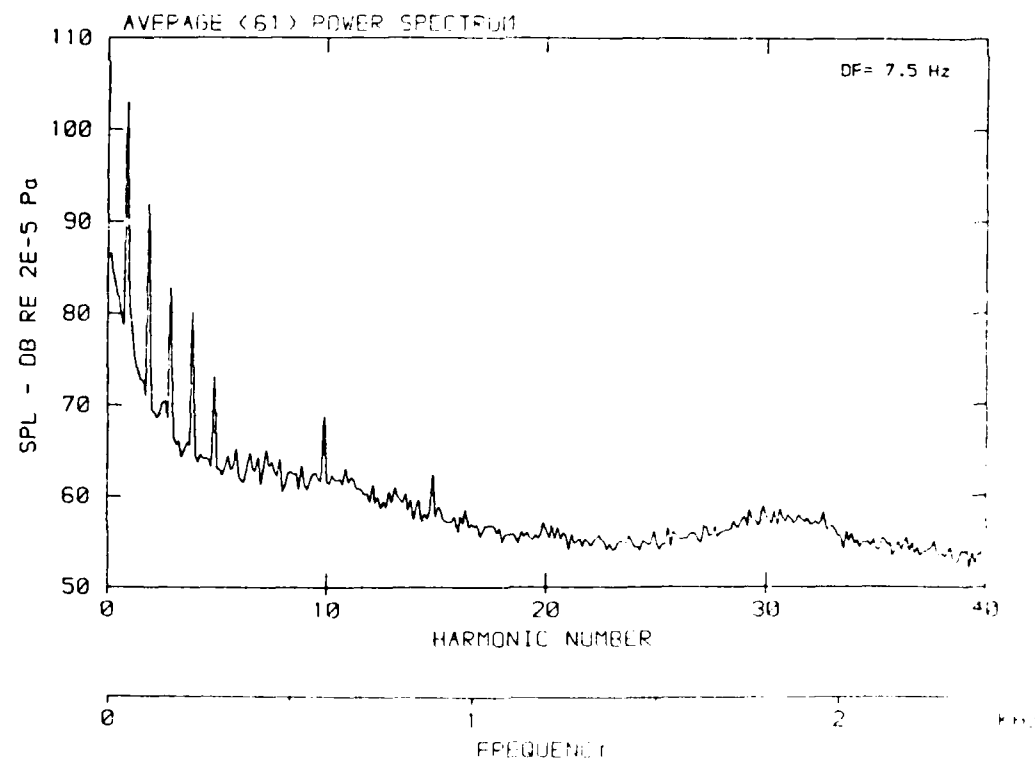
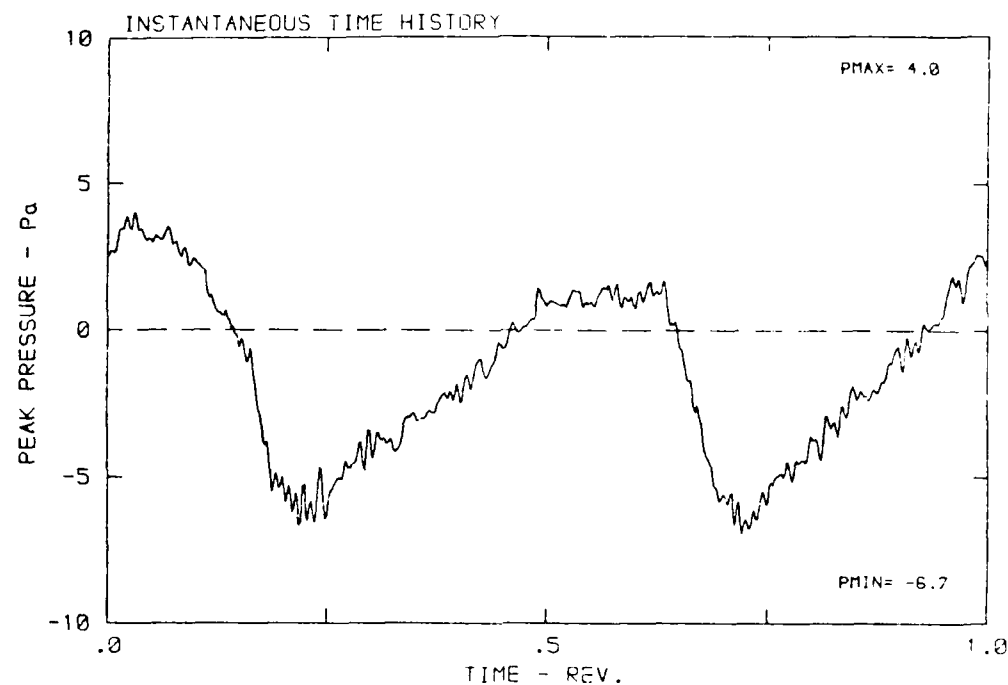
DATA POINT: BC-7 RUN: 74 MP: 9

β : 20.7° MH: .5006 n: 1522 rpm ν_{th} : .317 ϕ : .0° T: 286.4 K



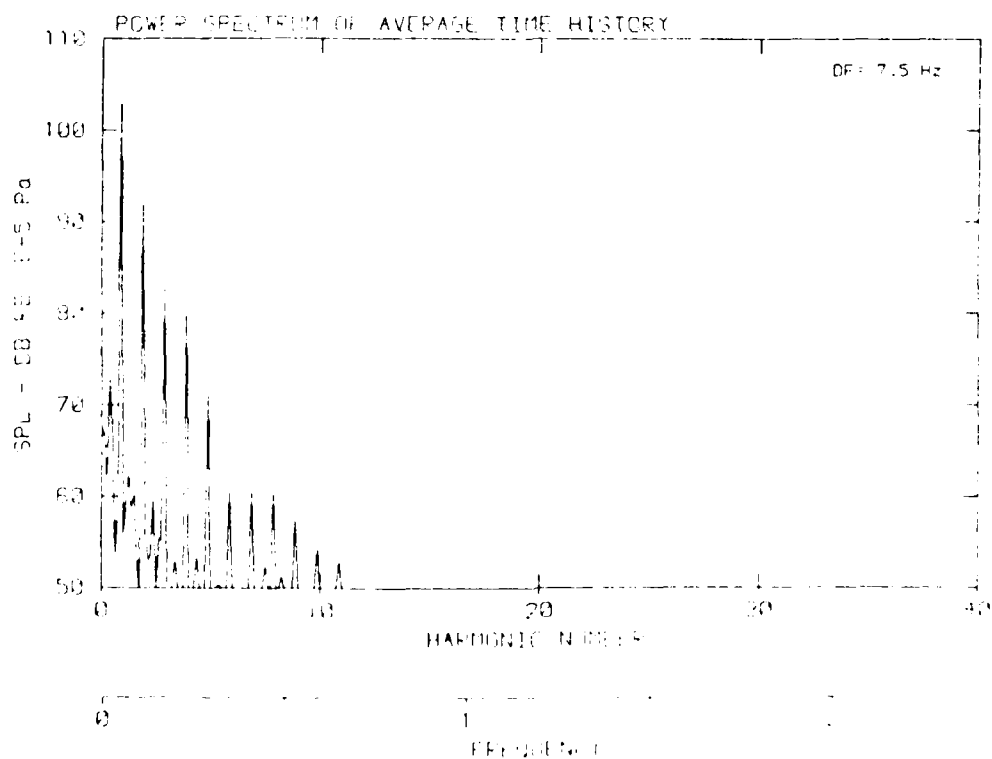
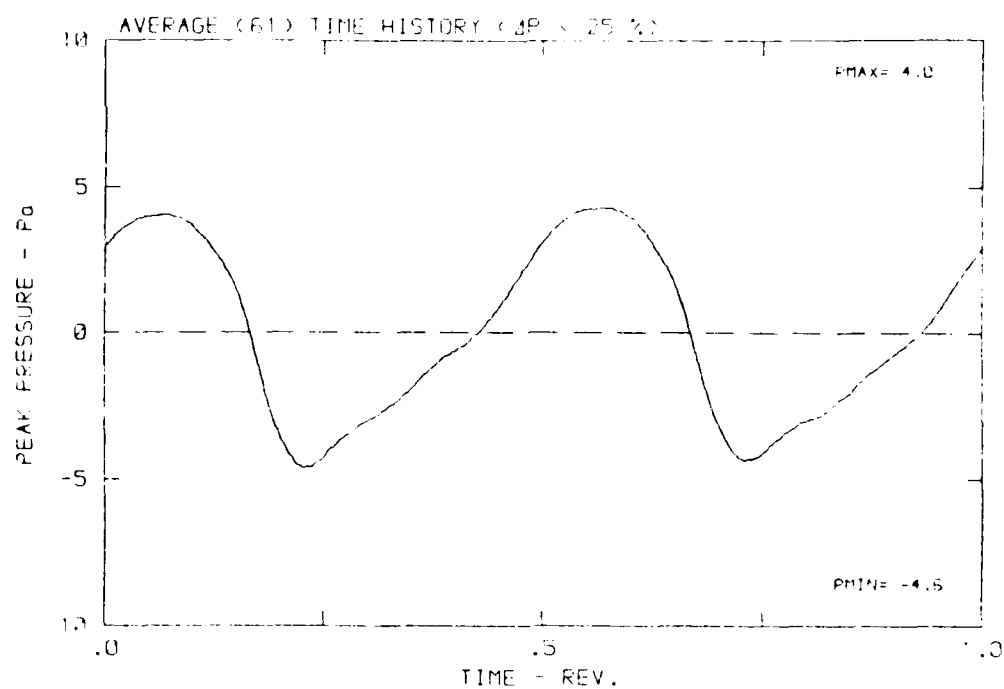
DATA POINT: CC-1 RUN: 117 MP: 1

β : 24.4° MH: .5747 n: 1800 rpm v/u : .203 ϕ : .0° T: 287.6 K



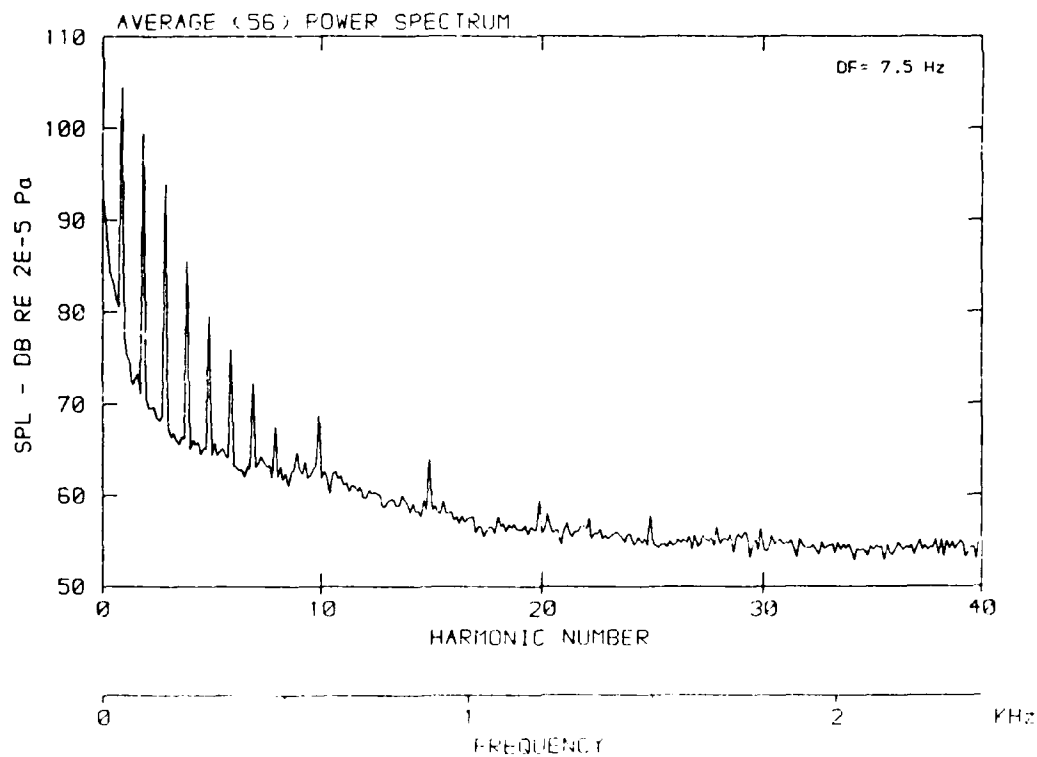
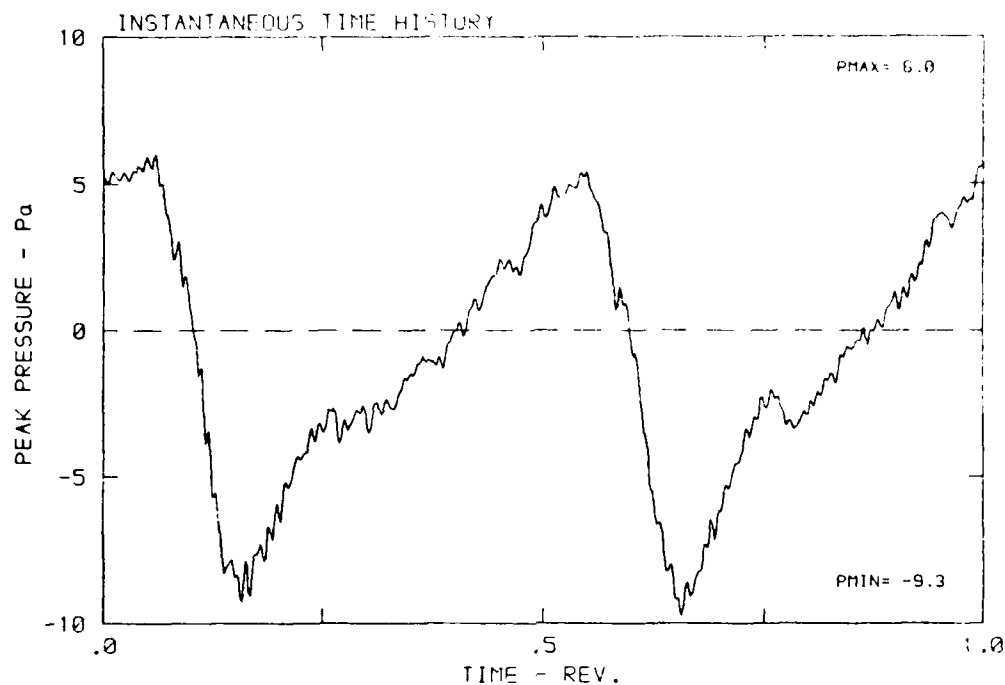
DATA POINT: CC-1 RUN: 117 MP: 1

β : 24.4° MH: .5747 n: 1800 rpm ν_{cu} : .203 ϕ : $.0^\circ$ T: 287.6 K



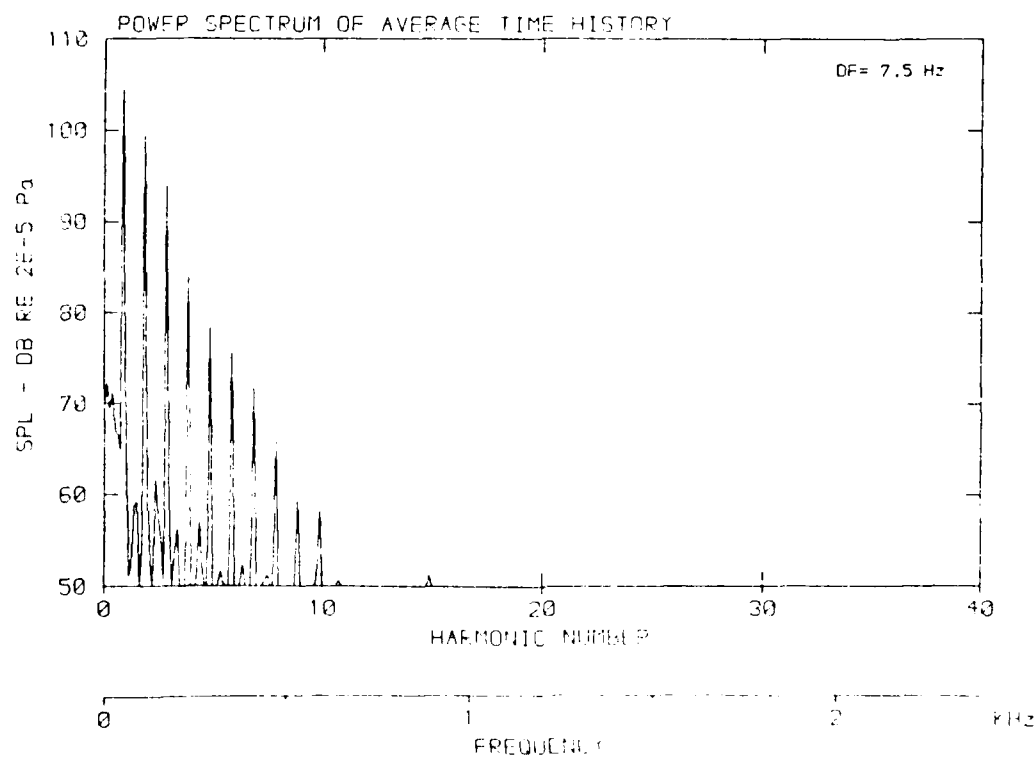
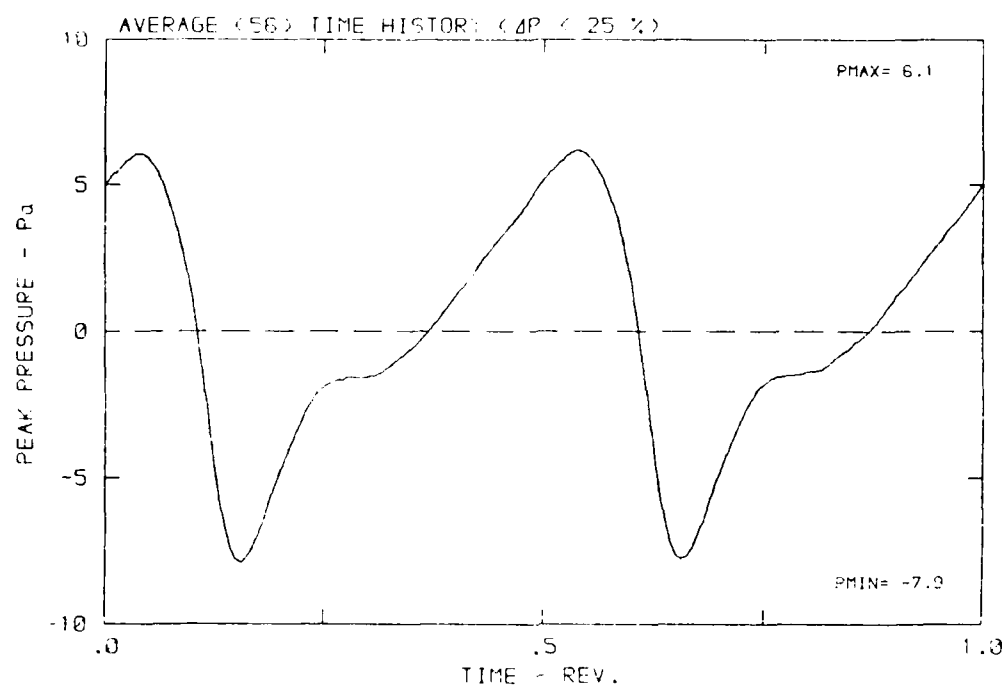
DATA POINT: CC-1 RUN: 117 MP: 2

β : 24.4° MH: .5747 n: 1820 rpm vcu: .203 ϕ : .0° T: 257.0 F



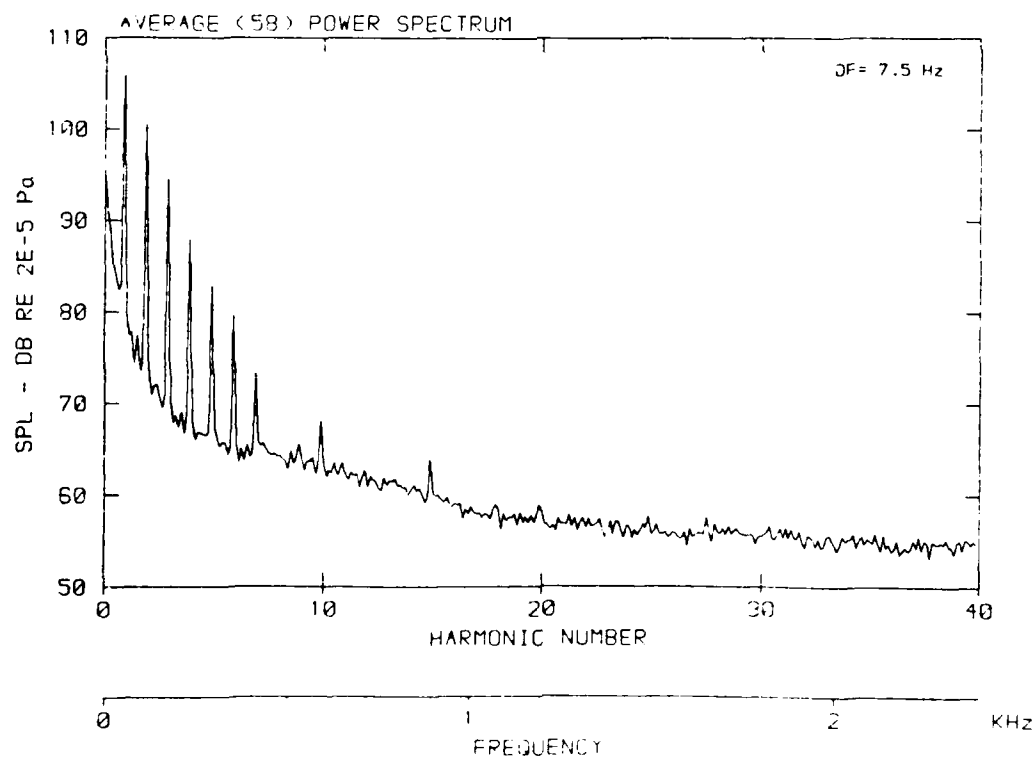
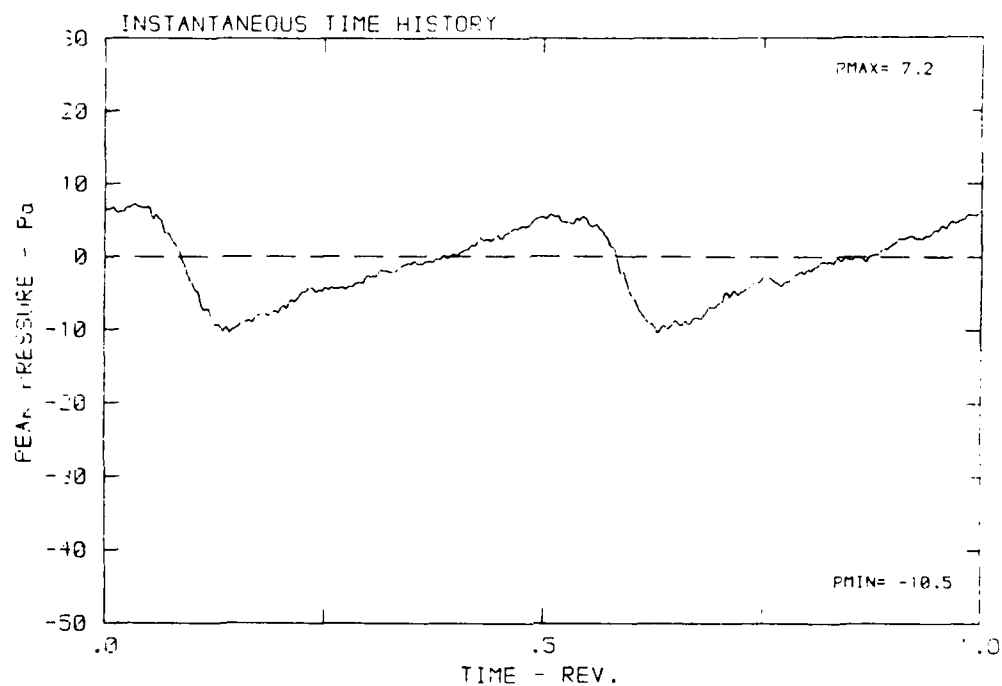
DATA POINT: CC-1 RUN: 117 MP: 2

β : 24.4° MH: .5747 n: 1800 rpm ν : .203 ϕ : .0° T: 287.6 K



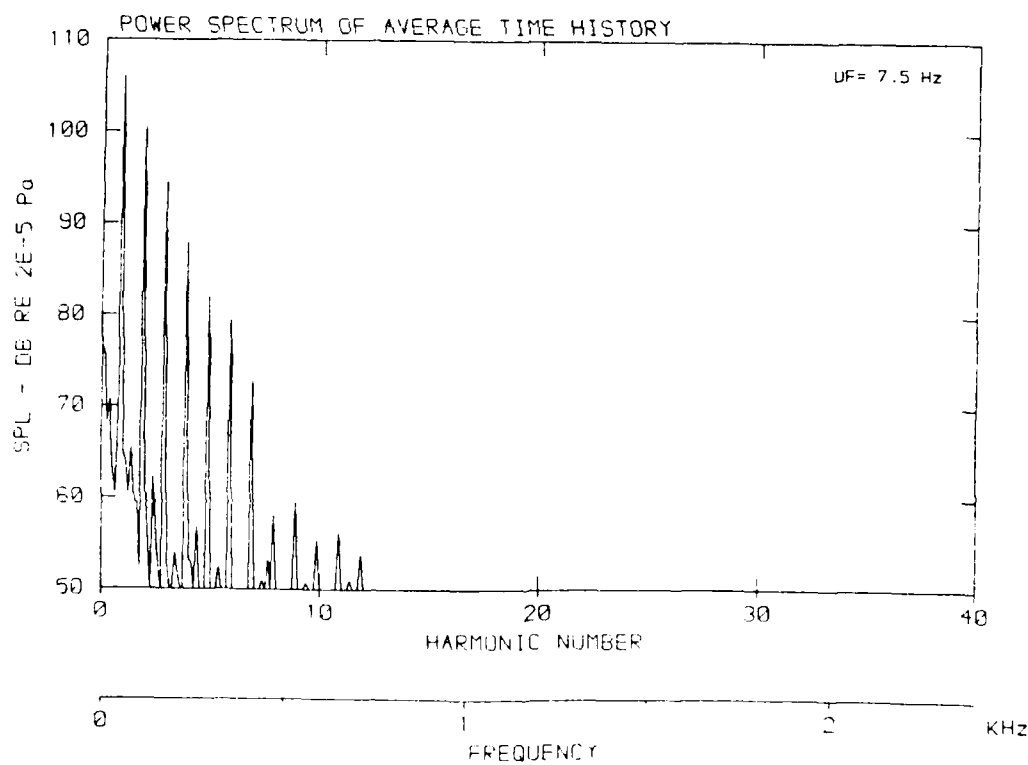
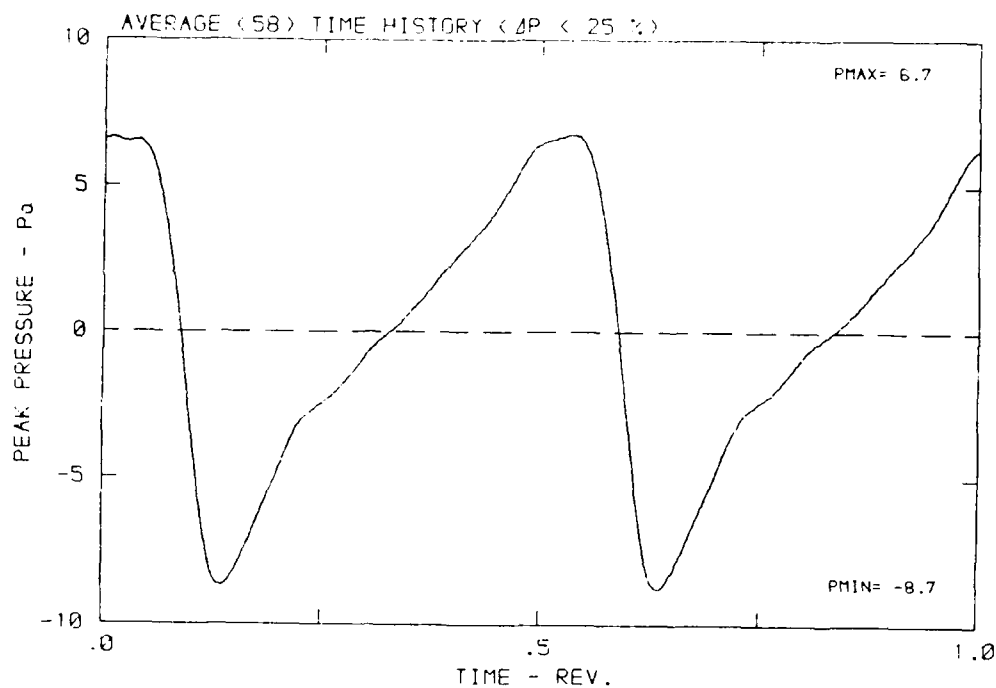
DATA POINT: CC-1 RUN: 117 MP: 3

β : 24.4° MH: .5747 n: 1800 rpm v/u: .203 ϕ : .0° T: 287.6 K



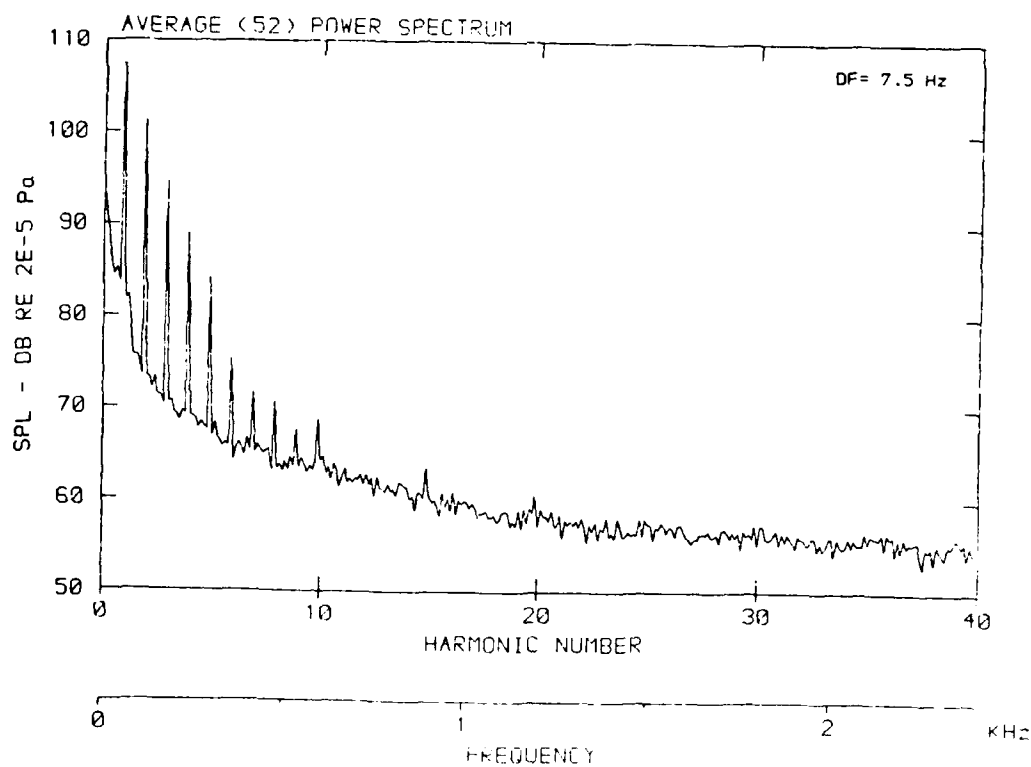
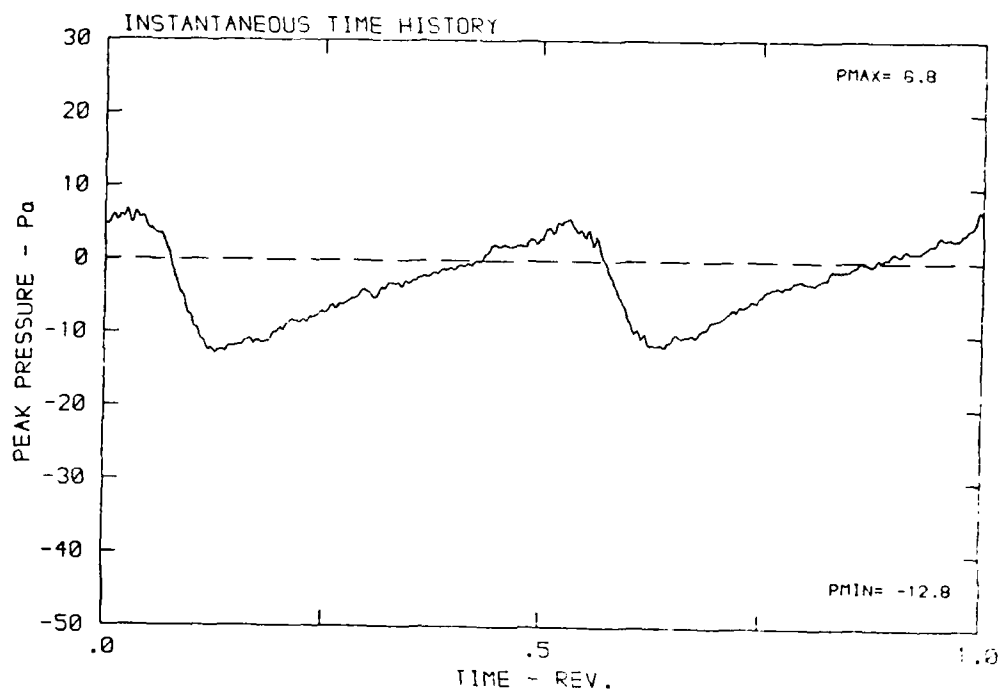
DATA POINT: CC-1 RUN: 117 MP: 3

β : 24.4° MH: .5747 n: 1800 rpm v-u: .203 ϕ : .0° T: 287.6 K



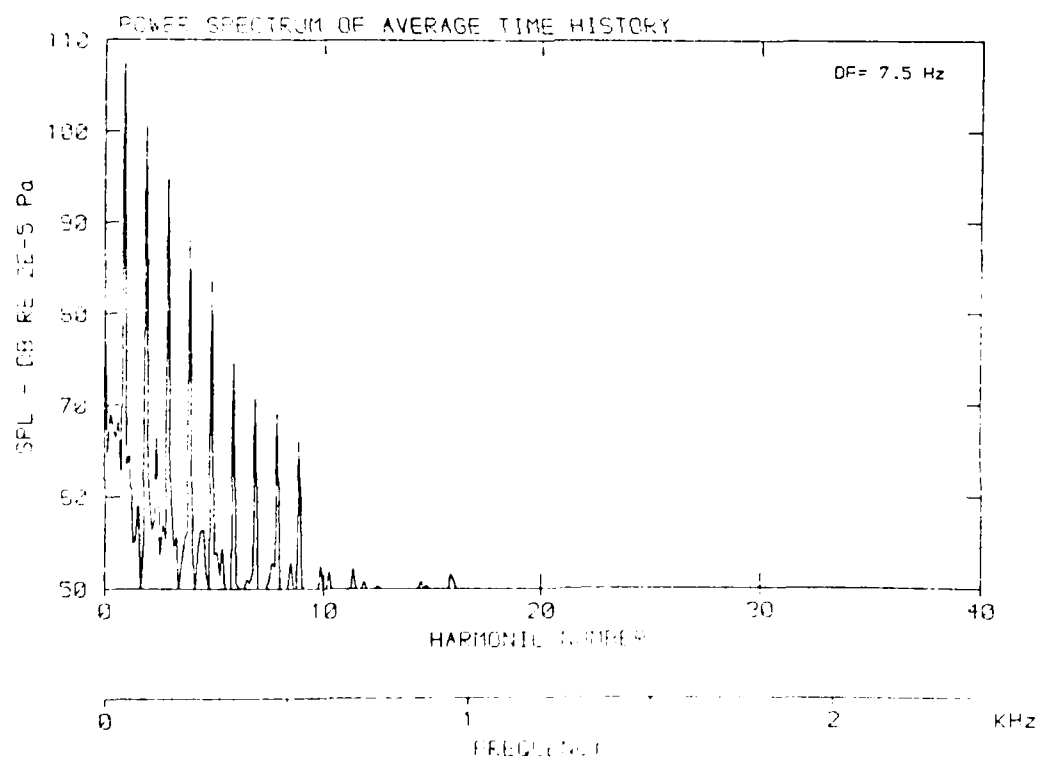
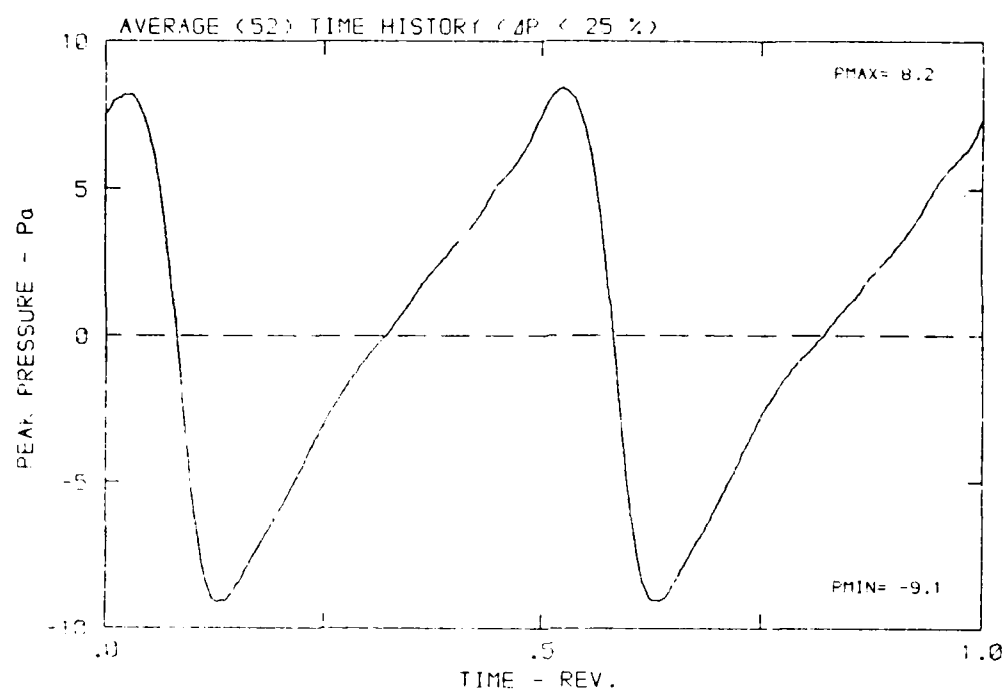
DATA POINT: CC-1 RUN: 117 MP: 4

β : 24.4° MH: .5747 n: 1800 rpm v/u: .203 ϕ : .0° T: 287.6 K



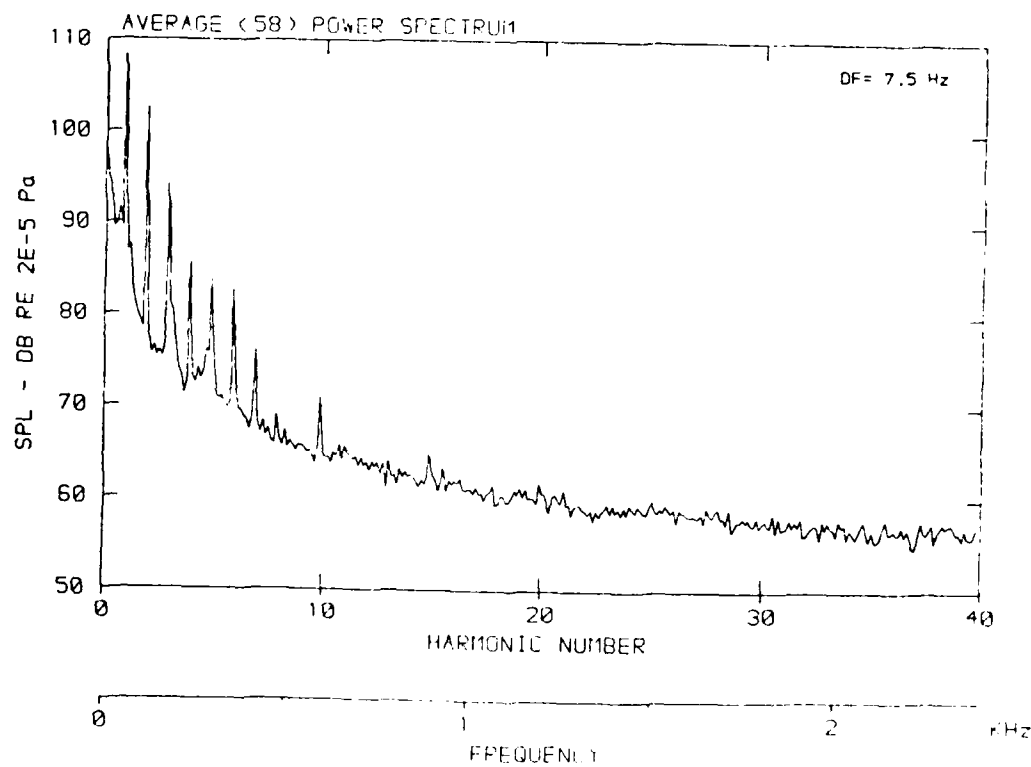
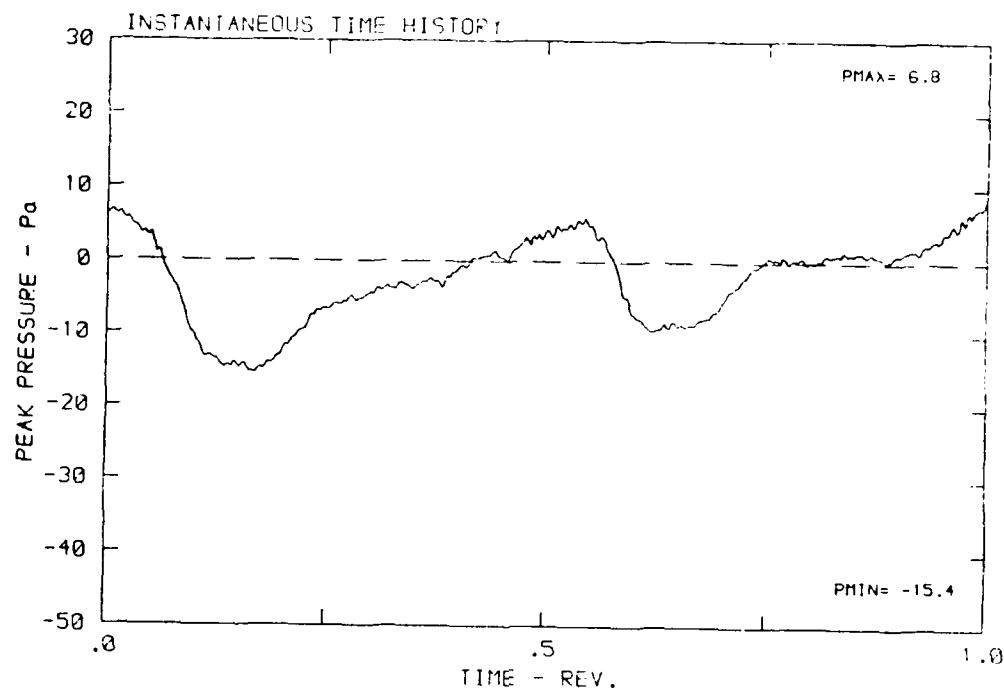
DATA POINT: CC-1 RUN: 117 MP: 4

β : 24.4° MH: .5747 n: 1800 rpm v/u: .203 ϕ : .0° T: 287.6 K



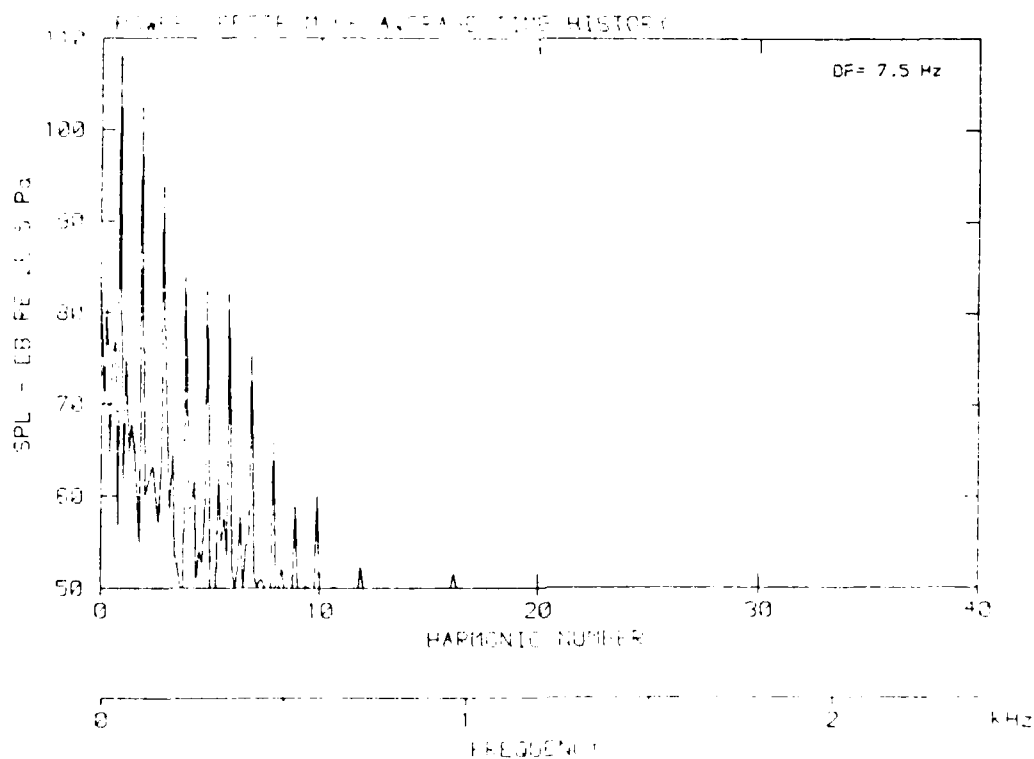
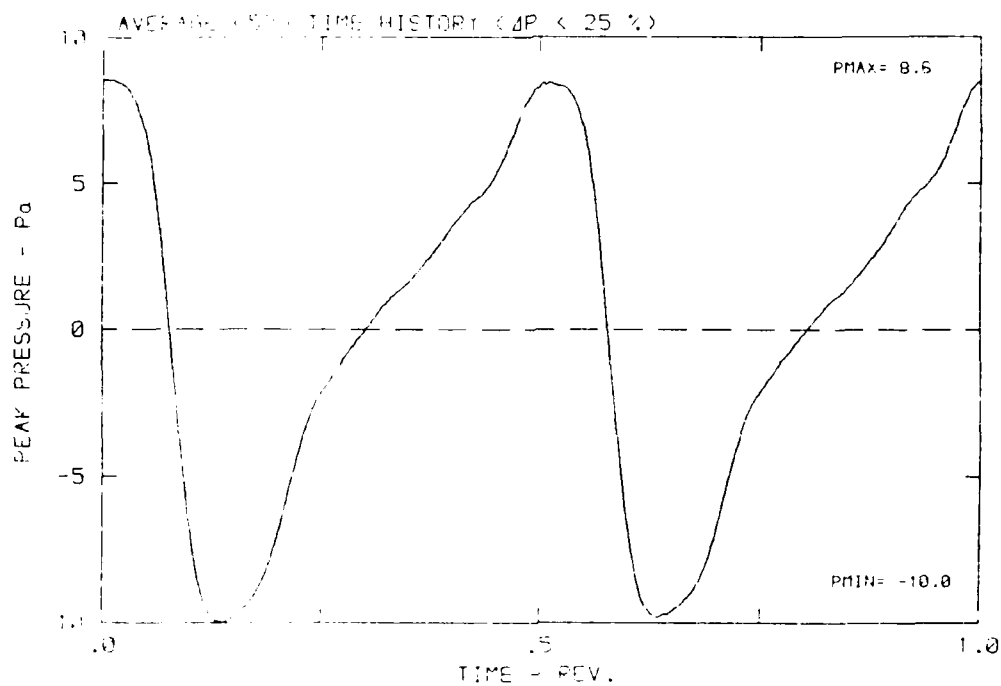
DATA POINT: CC-1 RUN: 117 MP: 3

β : 24.4° MH: .5747 n: 1800 rpm ν : .203 ϕ : .0° T: 287.6 K



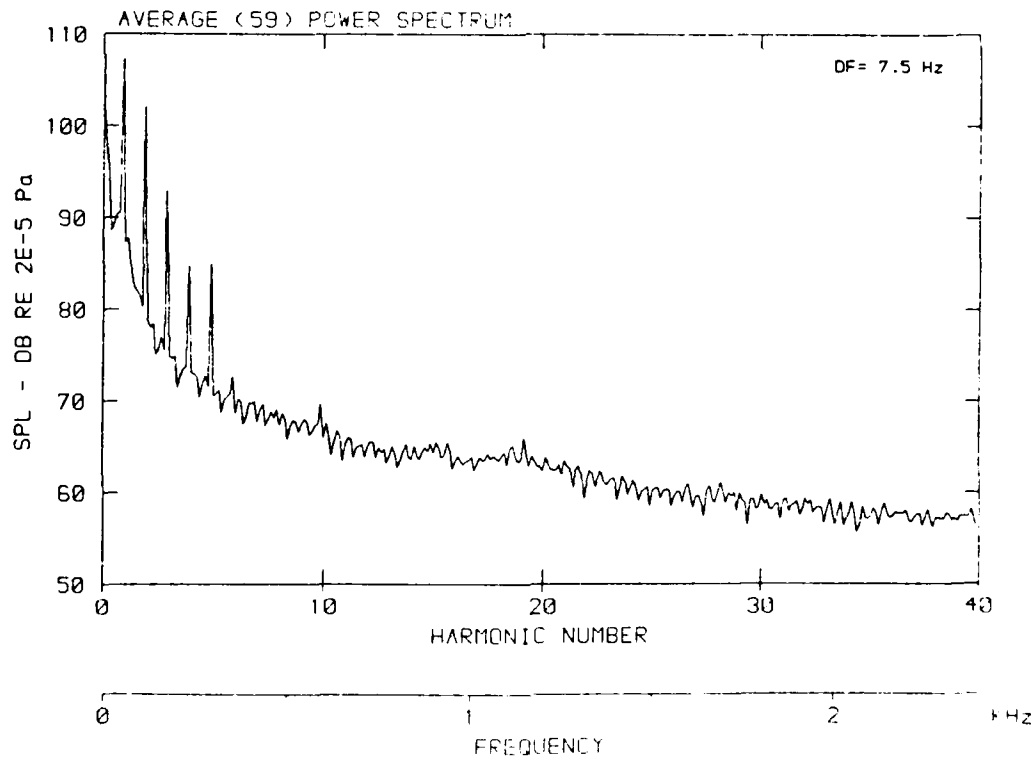
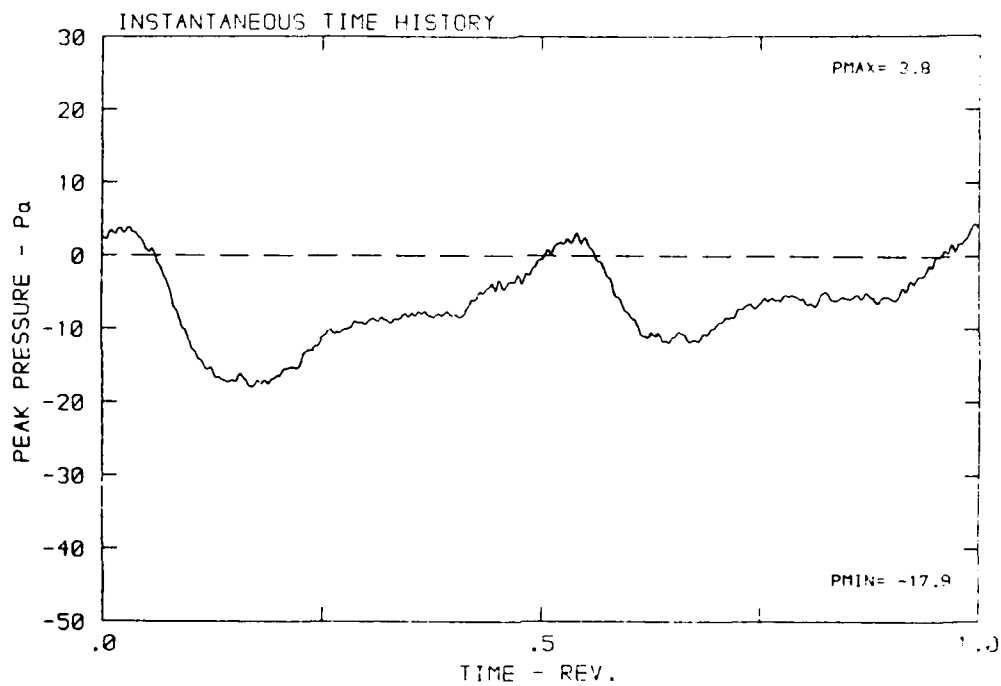
DATA POINT: CC-1 RUN: 117 MP: 5

β : 24.4° MH: .5747 n: 1800 rpm ν /u: .203 ϕ : .0° T: 287.6 K



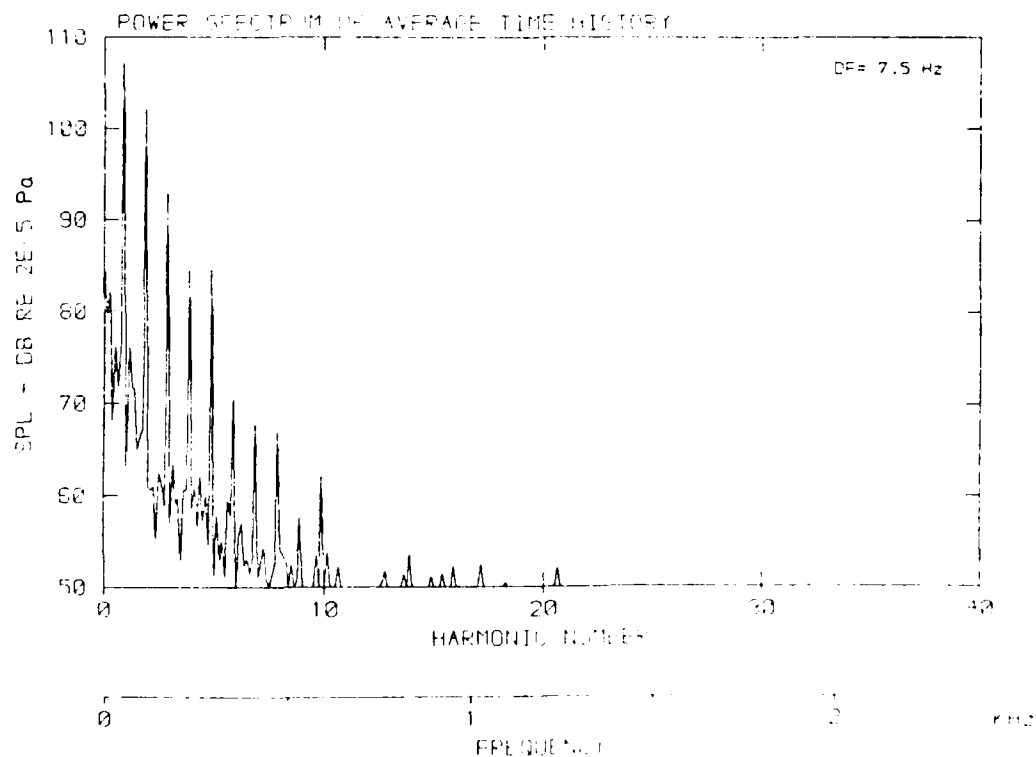
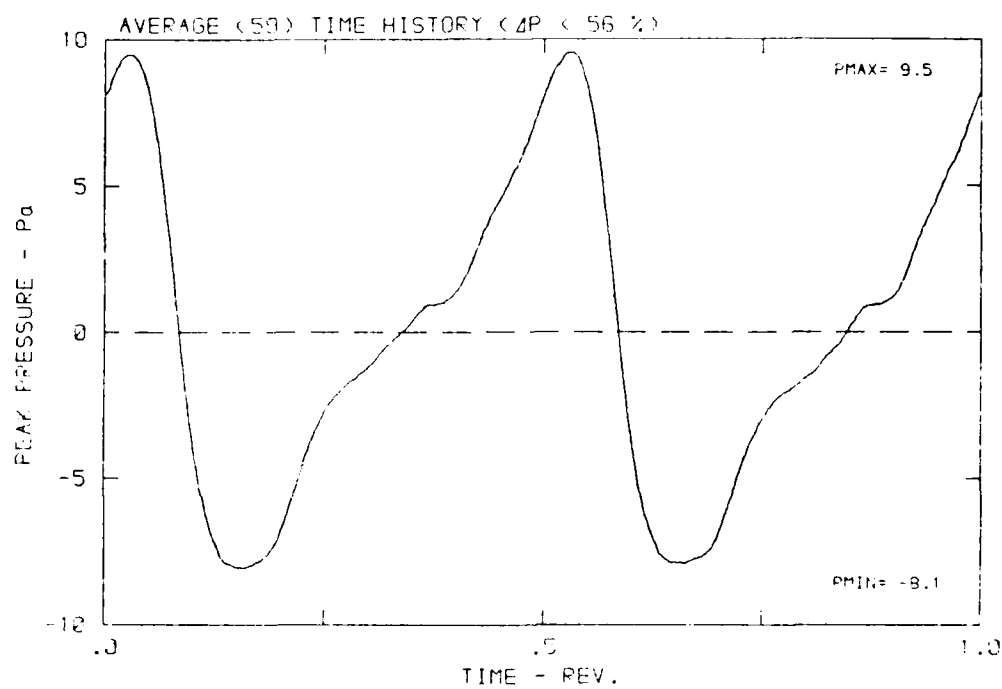
DATA POINT: CC-1 RUN: 117 MP: 6

β : 24.4° MH: .5747 n: 1800 rpm ν : .293 ϕ : .0° T: 297.6 K



DATA POINT: CC-1 RUN: 117 MP: 6

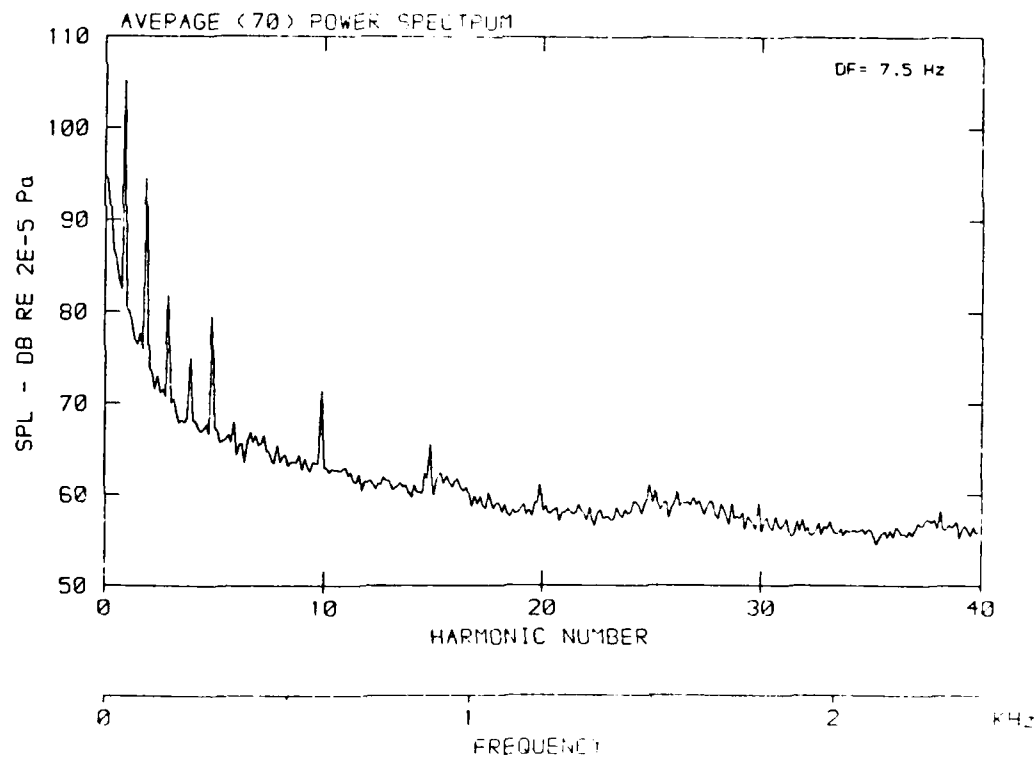
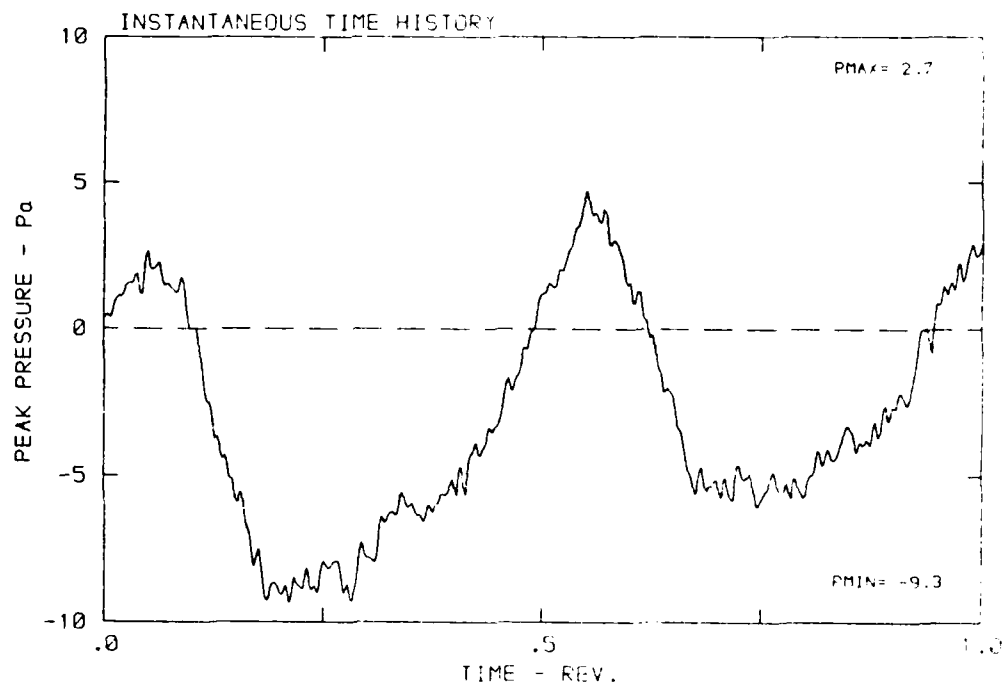
β : 24.4° MH: .5747 n: 1800 rpm v_{tu} : .203 ϕ : .0° T: 287.6 K



0 1 2 kHz

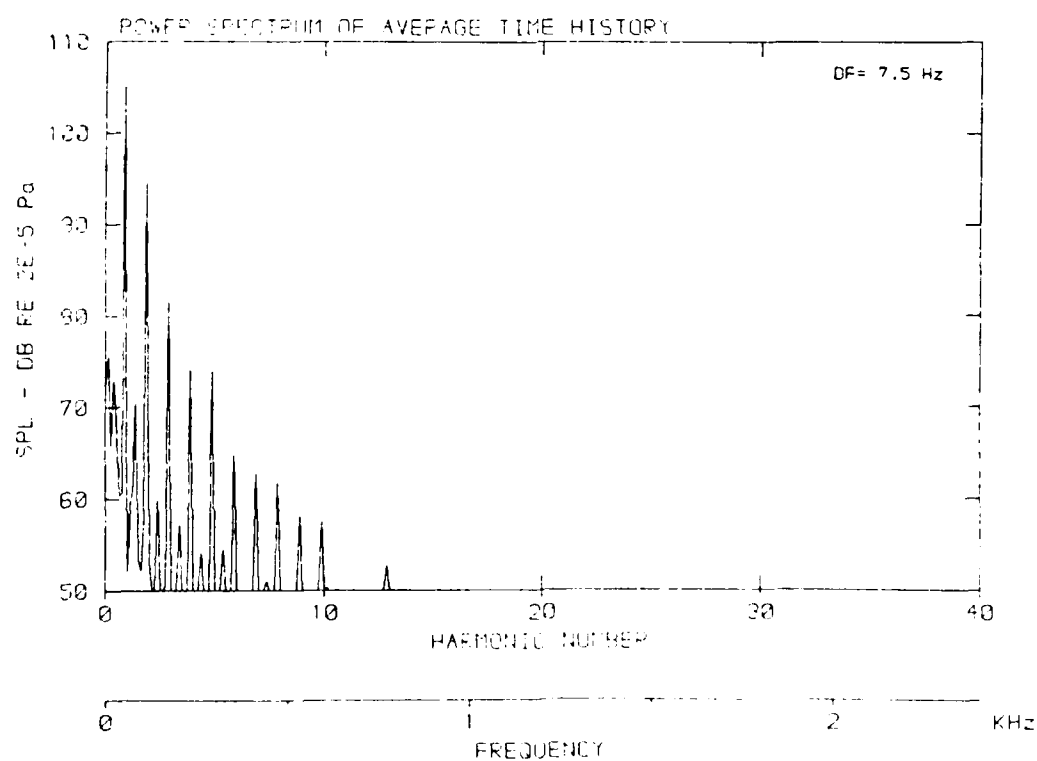
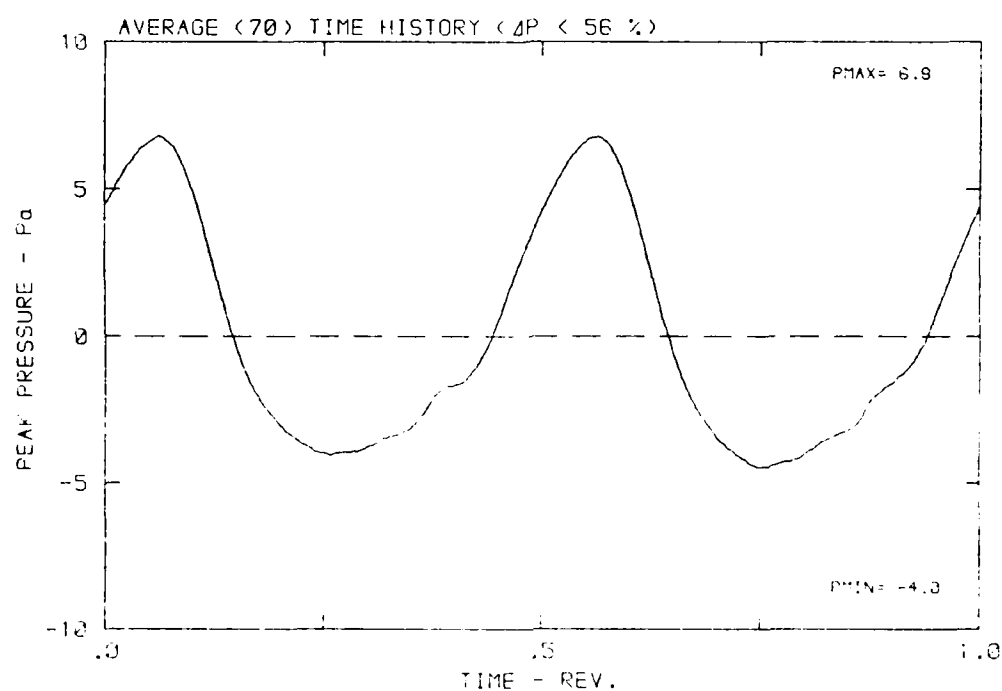
DATA POINT: CC-1 RUN: 117 NF: 7

β : 24.4° MH: .5747 n: 1800 rpm v: 0: .203 p: .0° T: 1.1



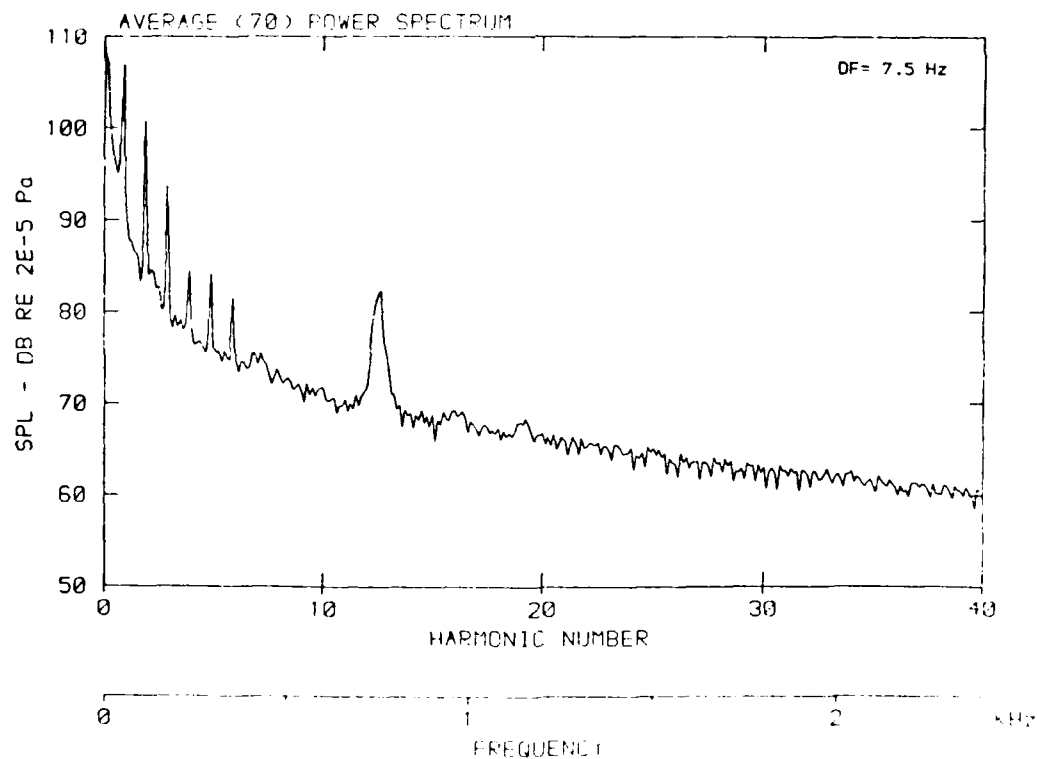
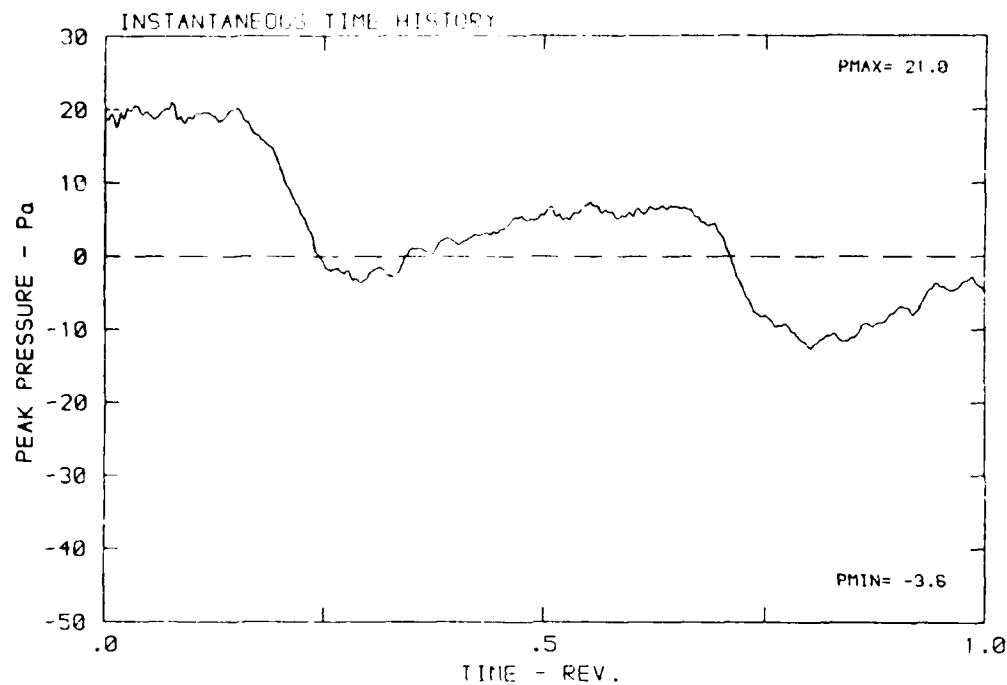
DATA POINT: CC-1 RUN: 117 MP: 7

β : 24.4° MH: .5747 n: 1800 rpm v/u : .203 ϕ : .0° T: 287.6 K



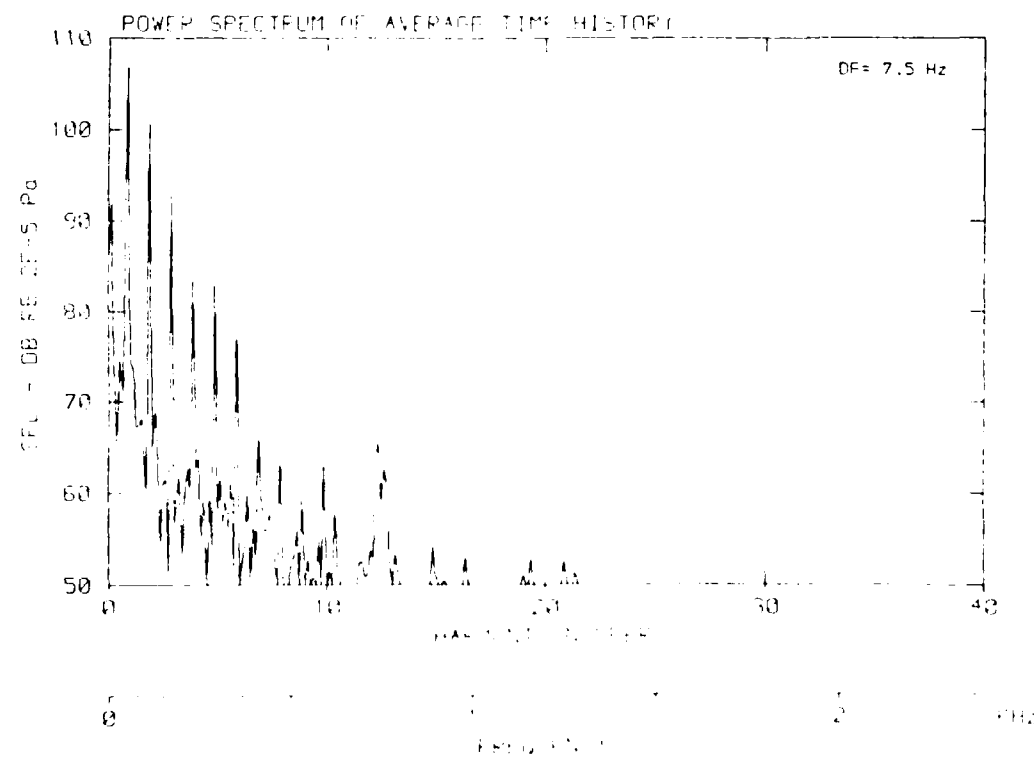
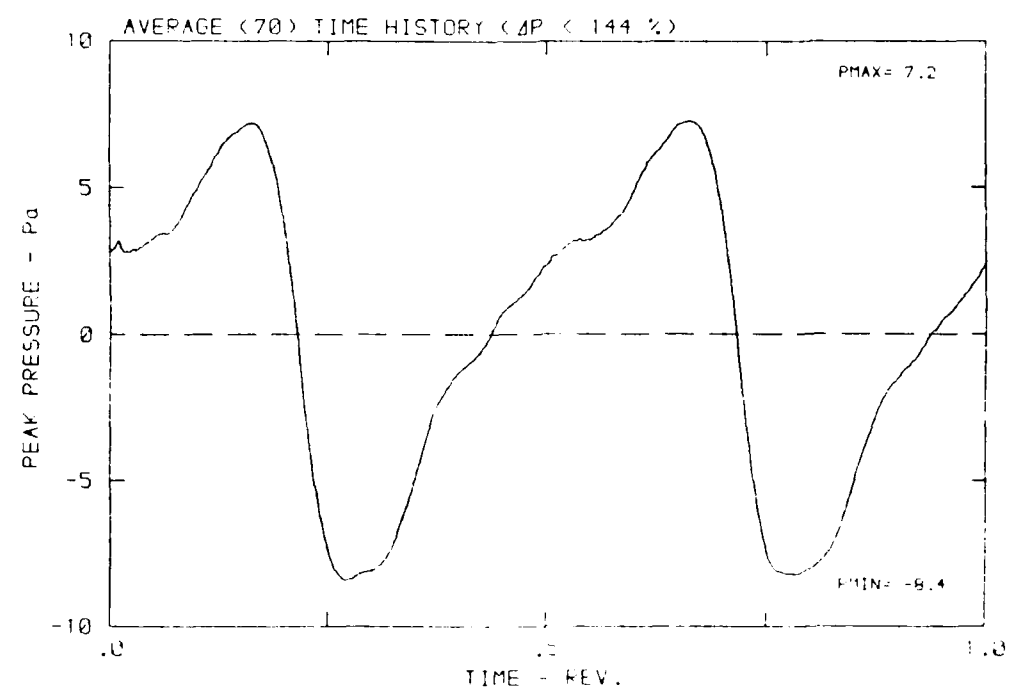
DATA POINT: CC-1 RUN: 117 MP: 9

β : 24.4° MH: .9247 n: 1800 rpm γ : .203 ϕ : $.0^\circ$ T: 287.6 K



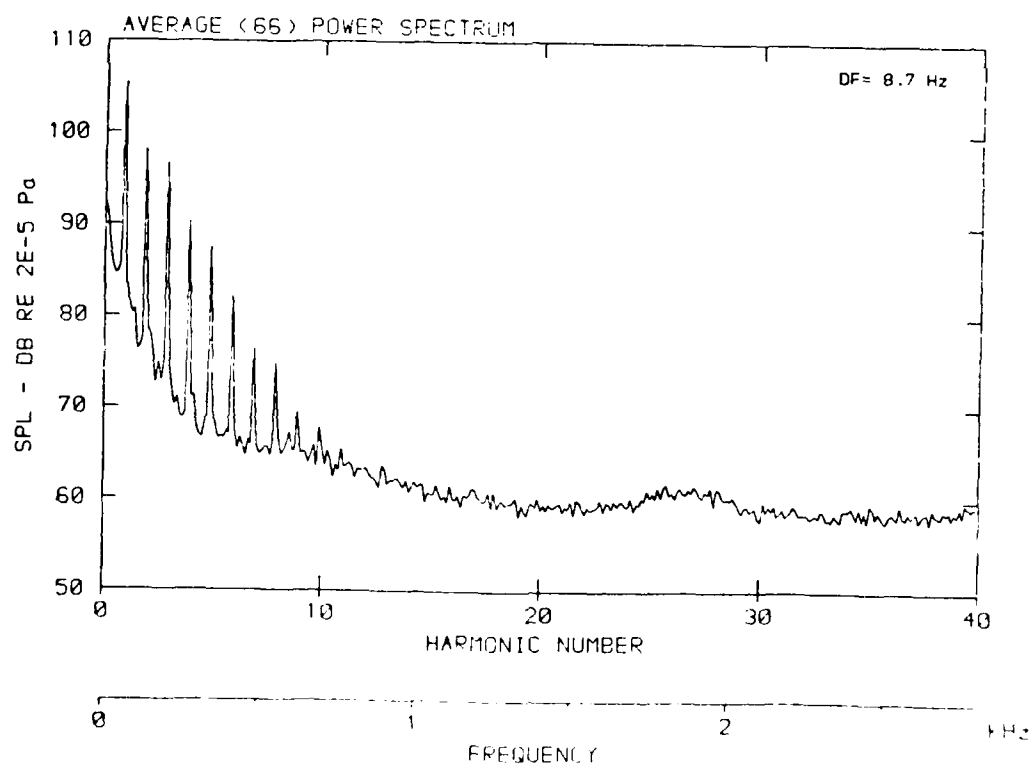
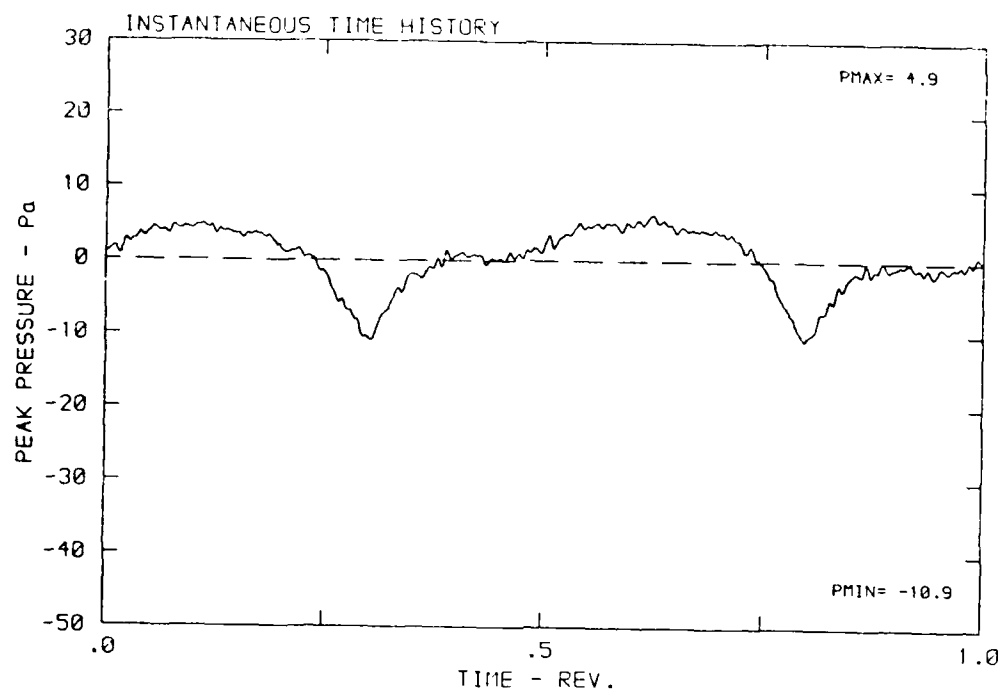
DATA POINT: CC-1 RUN: 117 MP: 9

β : 24.4° MH: .5747 n: 1800 rpm ν : .203 ϕ : .0° T: 287.6 K



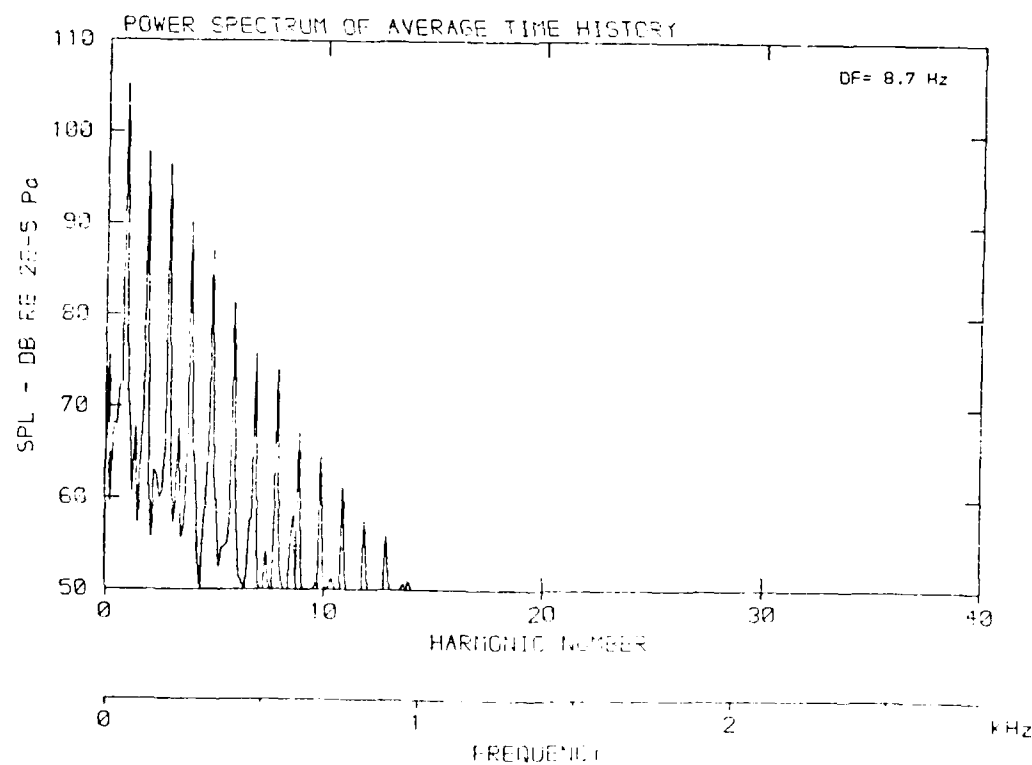
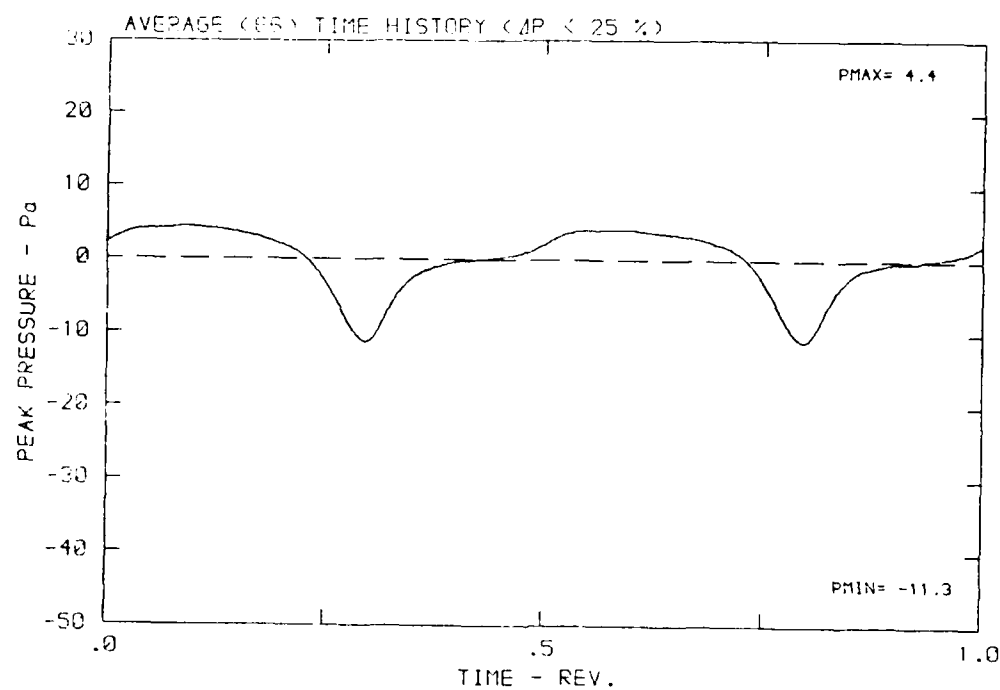
DATA POINT: CC-2 RUN: 116 NP: 1

β : 24.4° MH: .6700 n: 2100 rpm vcu: .000 ϕ : .0° T: 100.0°



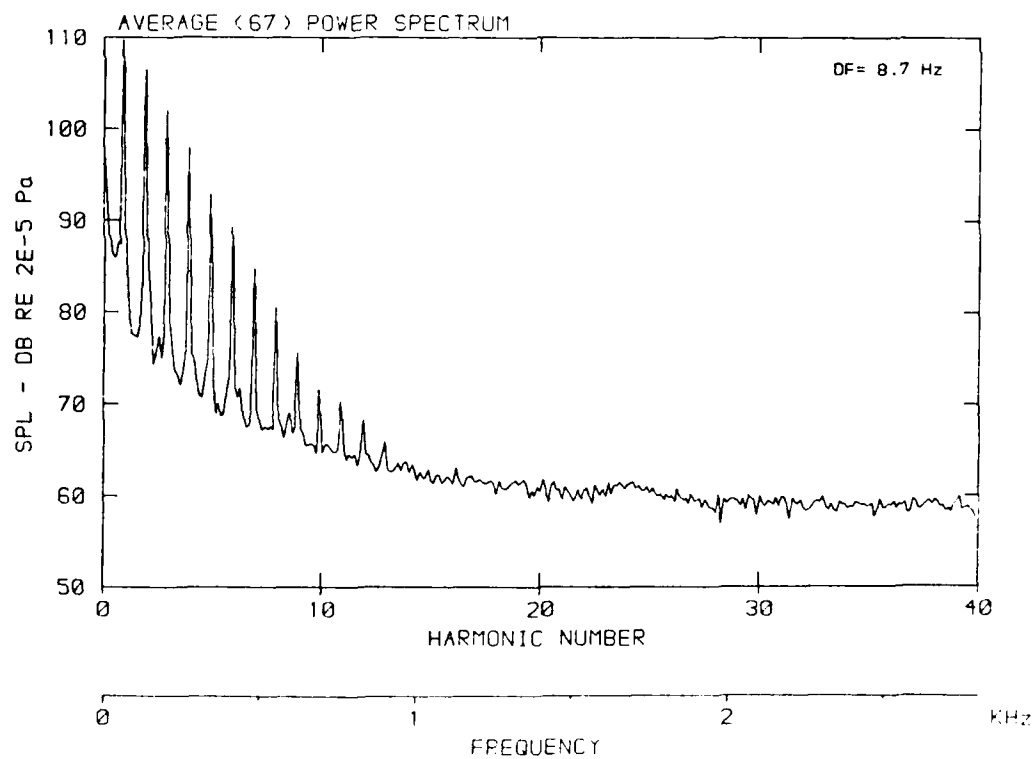
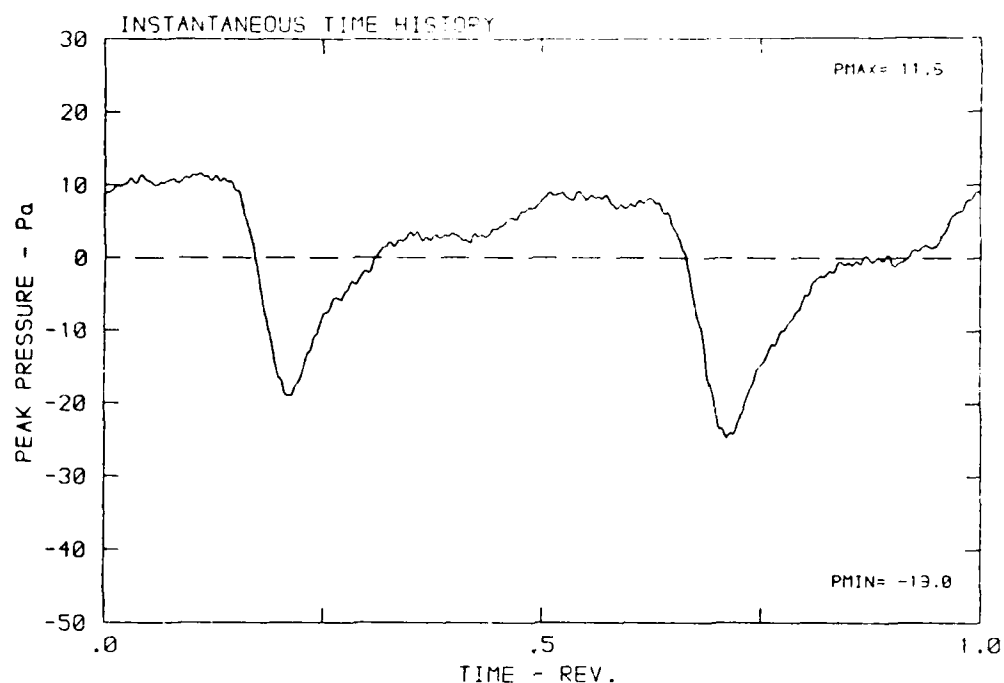
DATA POINT: CC-2 RUN: 118 MP: 1

β : 24.4° MH: .6700 n: 2100 rpm wtu: .200 ϕ : $.0^\circ$ T: 287.7 K



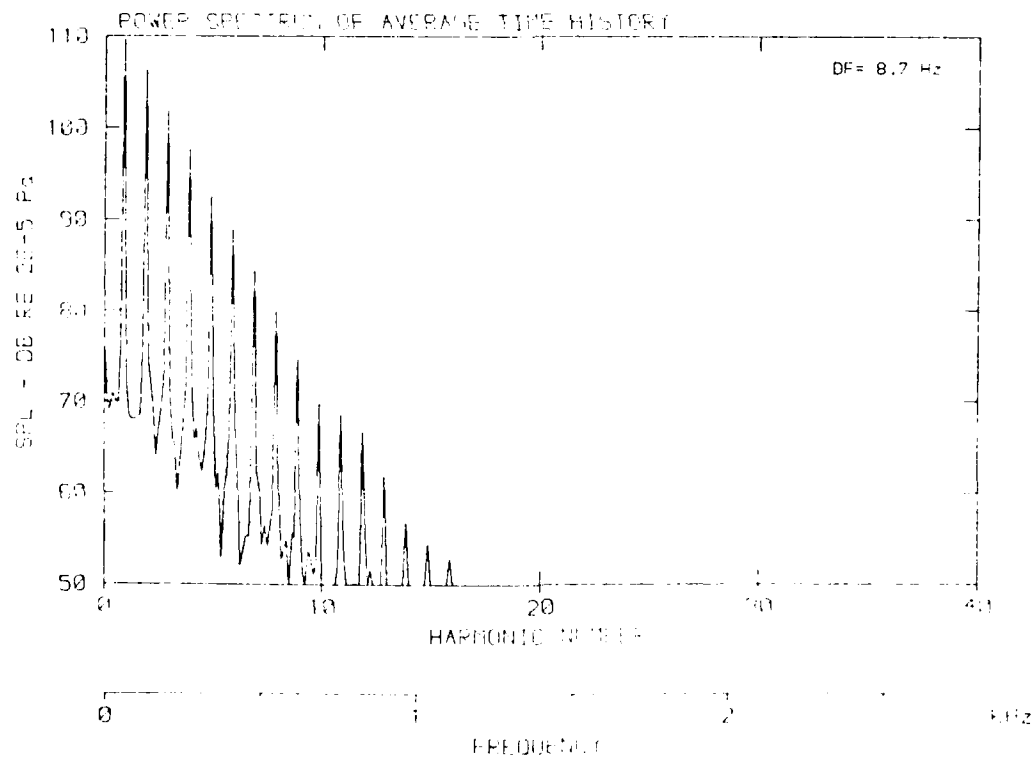
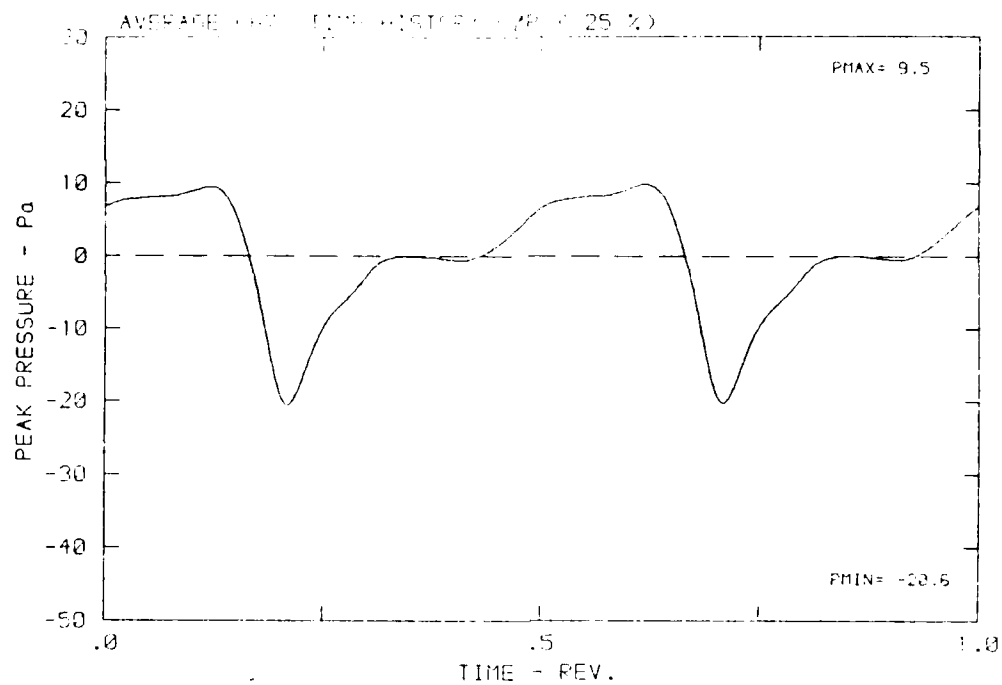
DATA POINT: CC-2 RUN: 118 HP: 2

β : 24.4° MH: .6700 n: 2100 rpm μ : .000 ϕ : .0° T: 167.7 K



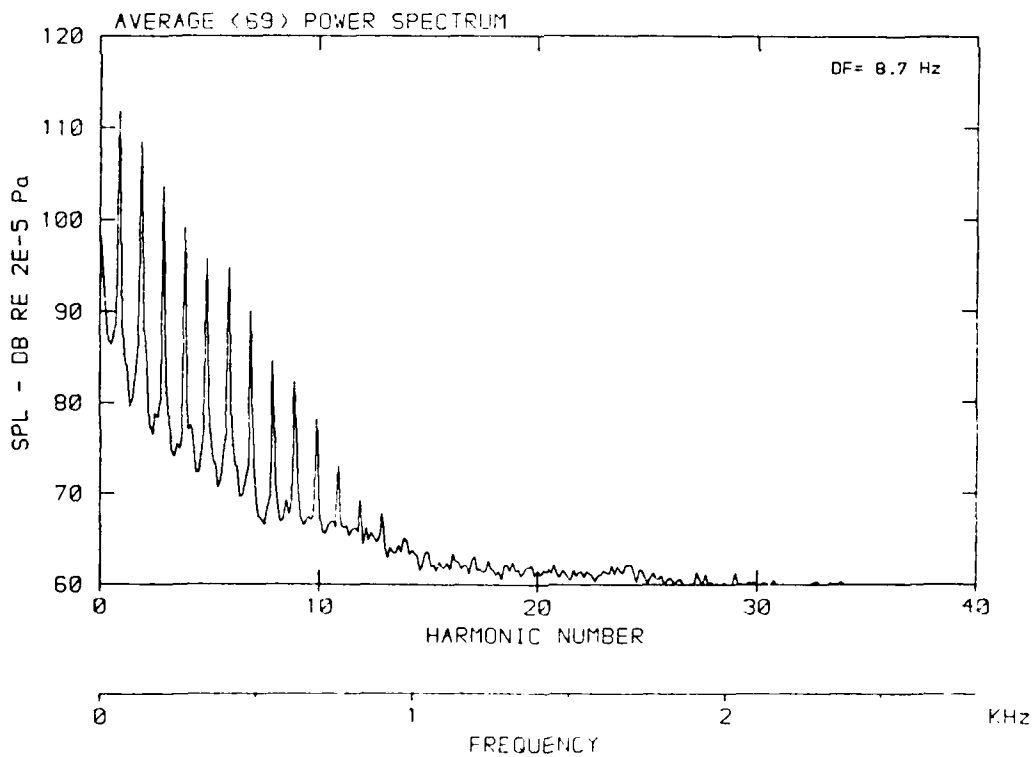
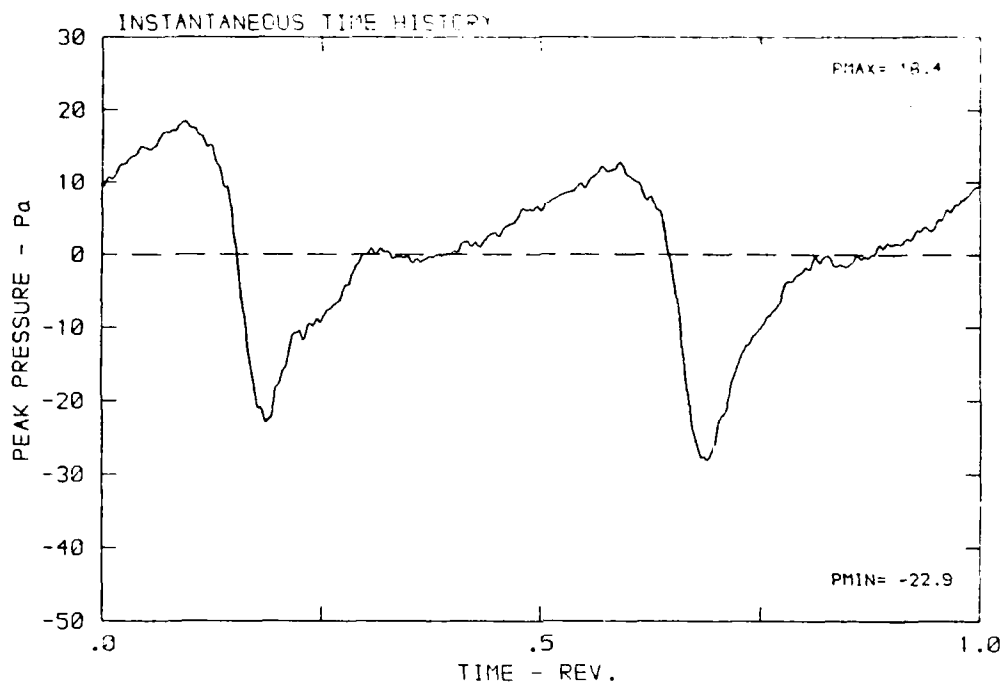
DATA POINTS: 1000 RUN: 118 MP: 2

β : 24.4° MH: .8710 ω : 2100 rpm γ : .200 ϕ : .0° T: 287.7 K



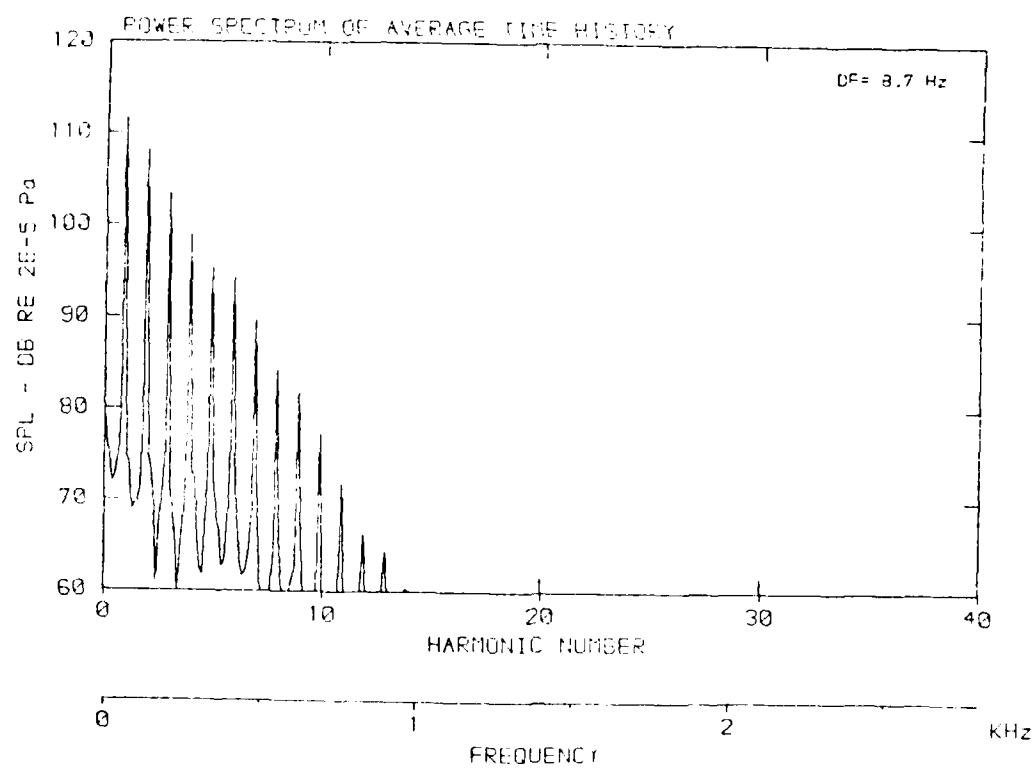
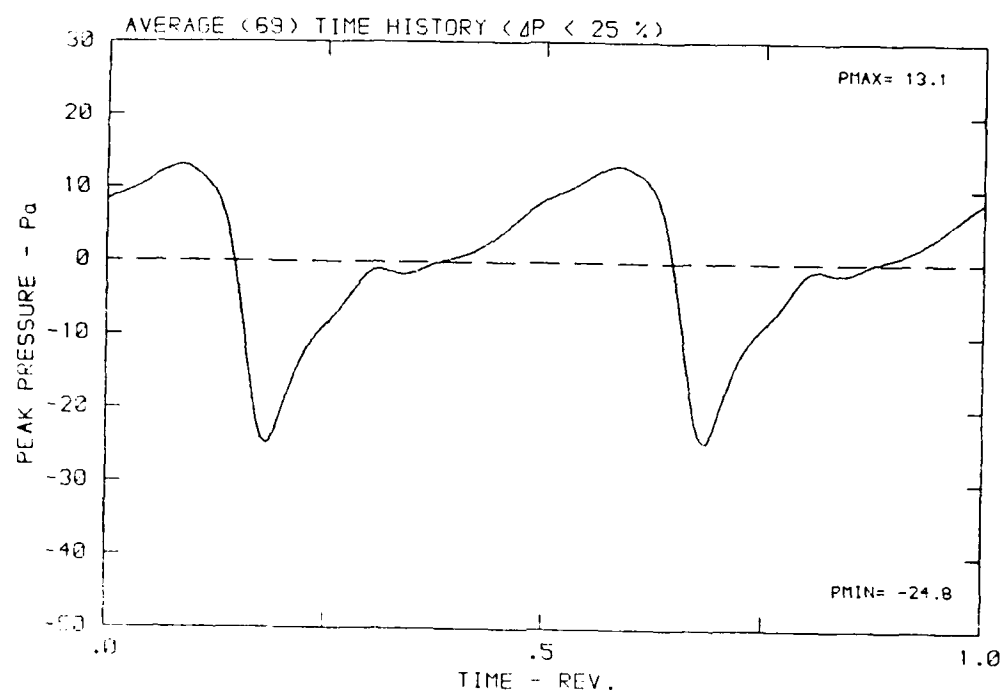
DATA POINT: CC-2 RUN: 118 MP: 3

β : 24.4° MH: .6700 n: 2100 ρ : .000 μ : .000 γ : .000



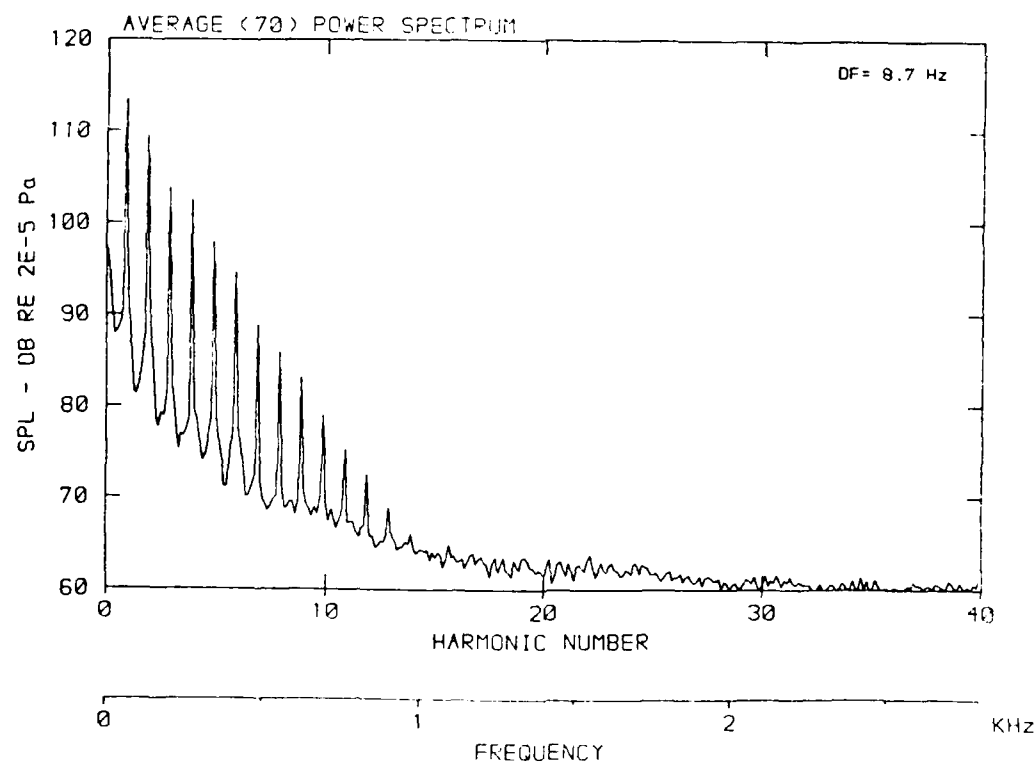
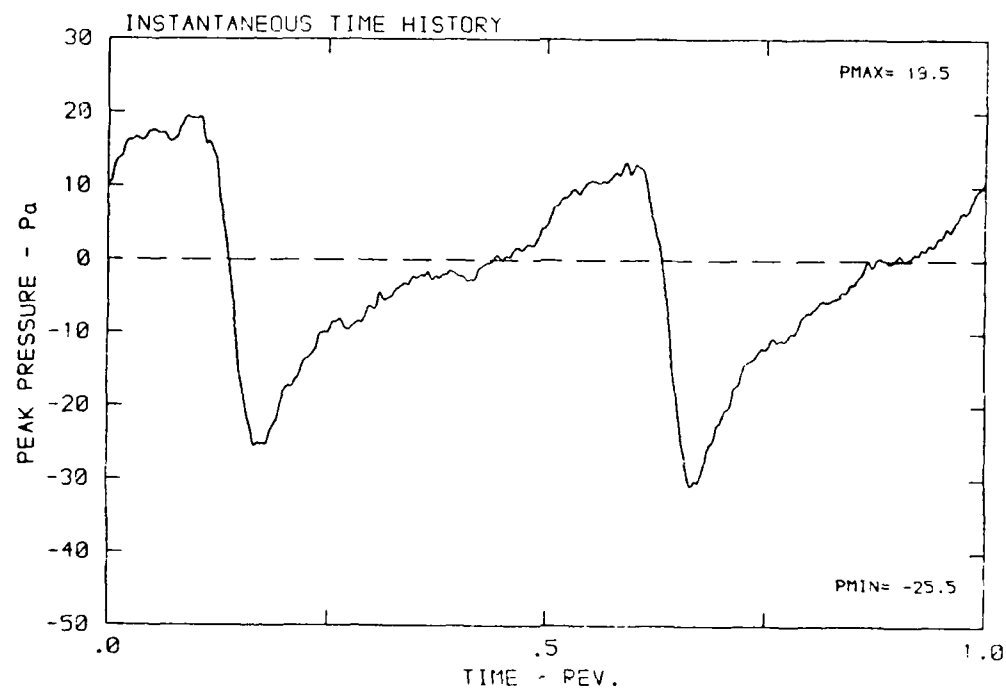
DATA POINT: CC-2 RUN: 118 MP: 3

β : 24.4° MH: .6700 n: 2100 rpm v/u: .200 ϕ : .0° T: 287.7 K



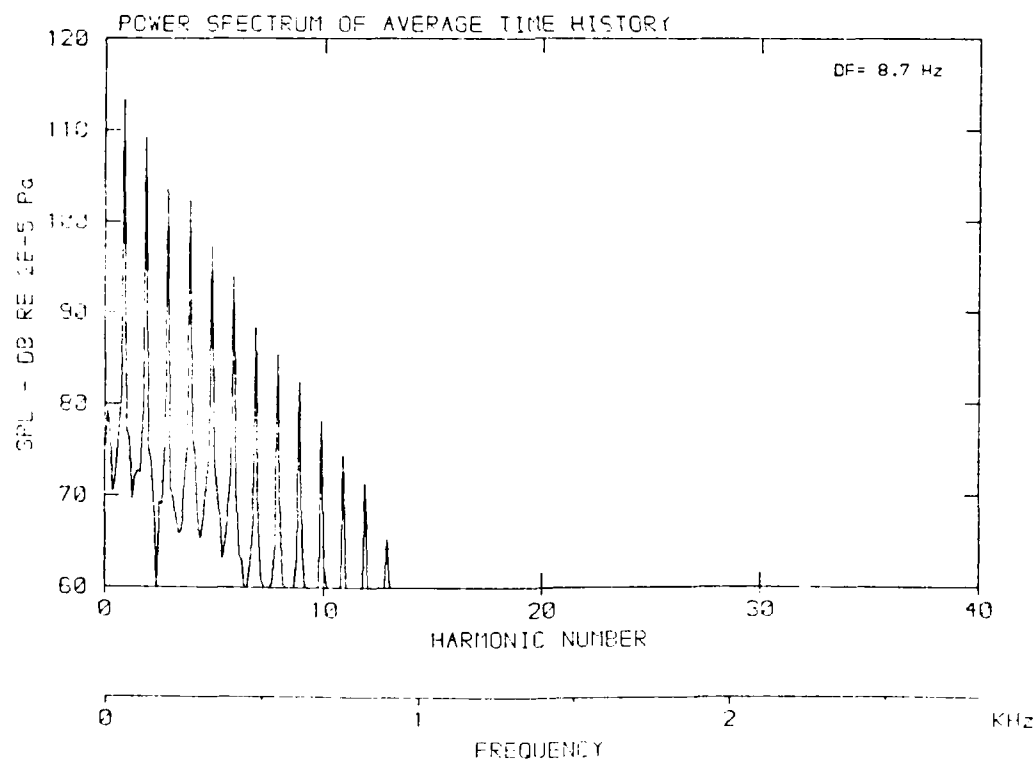
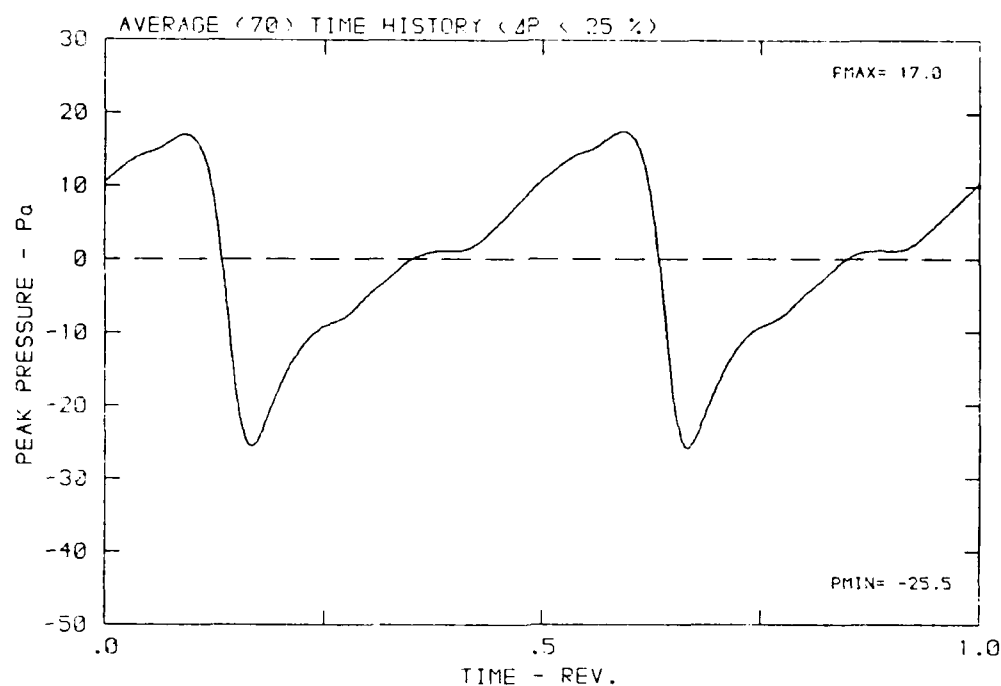
DATA POINT: CC-2 RUN: 118 MP: 4

β : 24.4° MH: .6700 n: 2100 rpm v/u : .200 ϕ : .0° T: 267.7 K



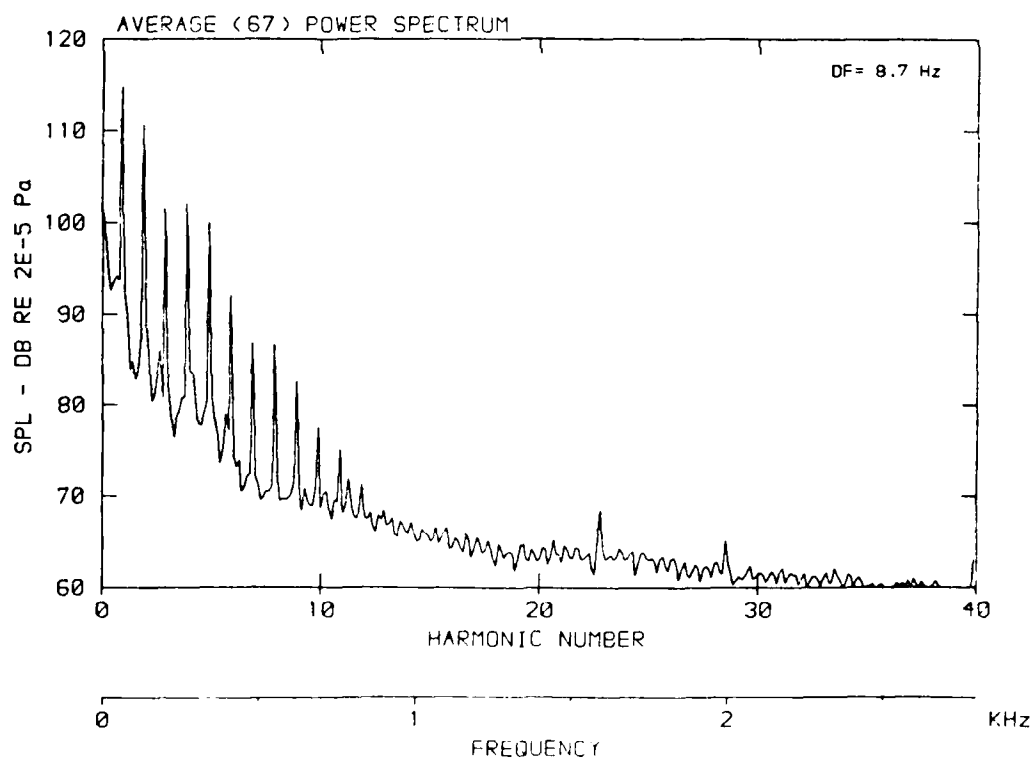
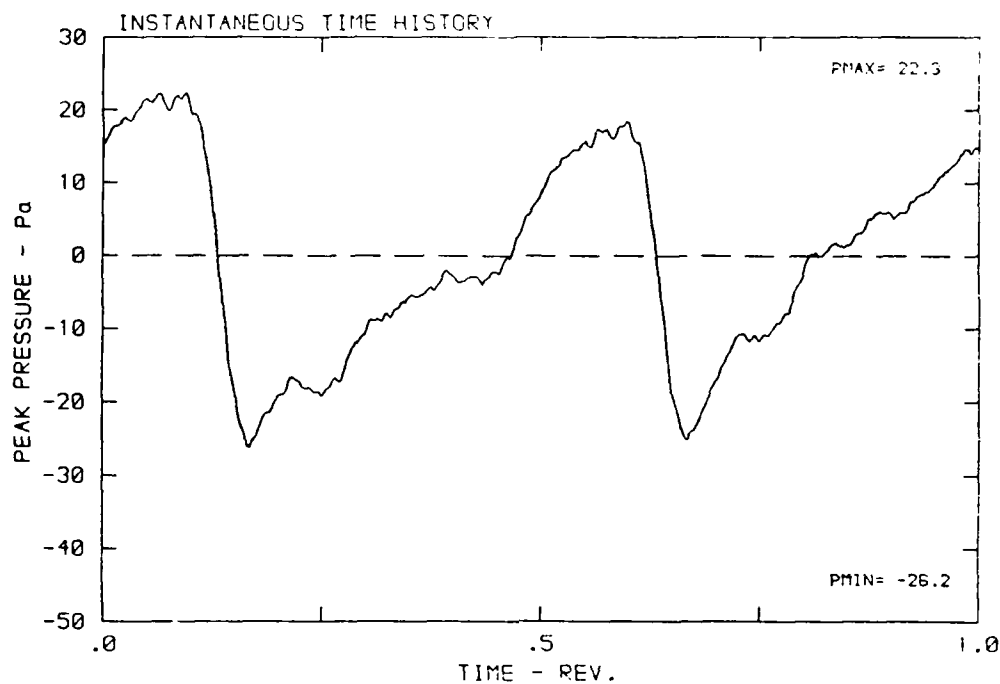
DATA POINT: CC-2 RUN: 118 MP: 4

β : 24.4° MH: .6700 n: 2100 rpm λ : .200 ϕ : .0° T: 297.7 K



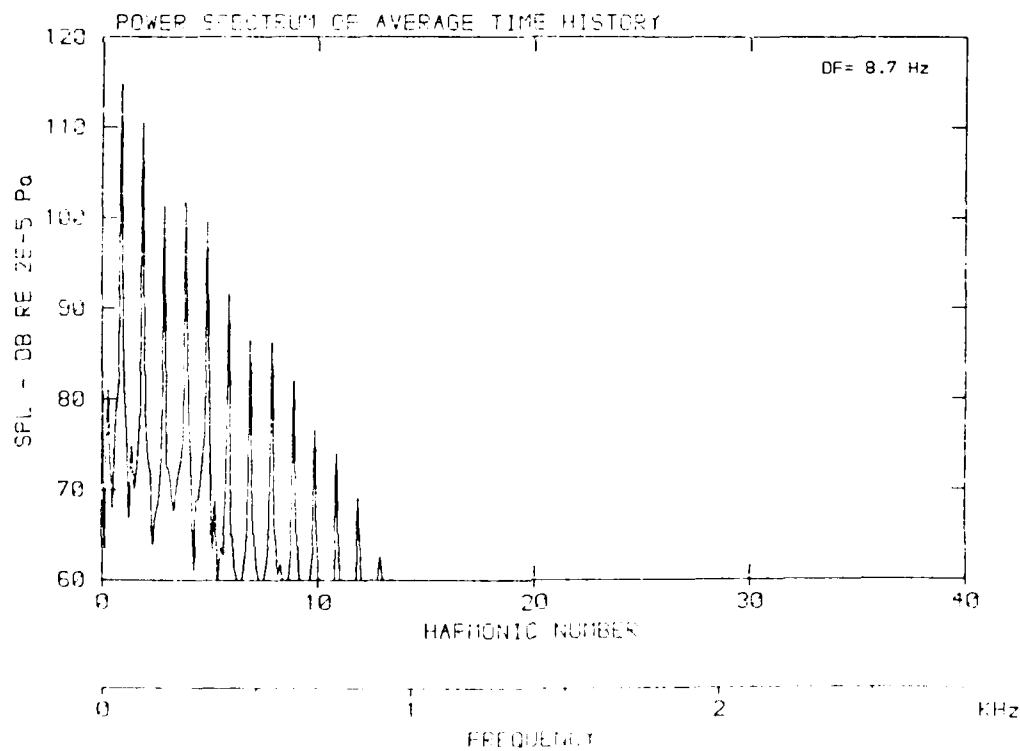
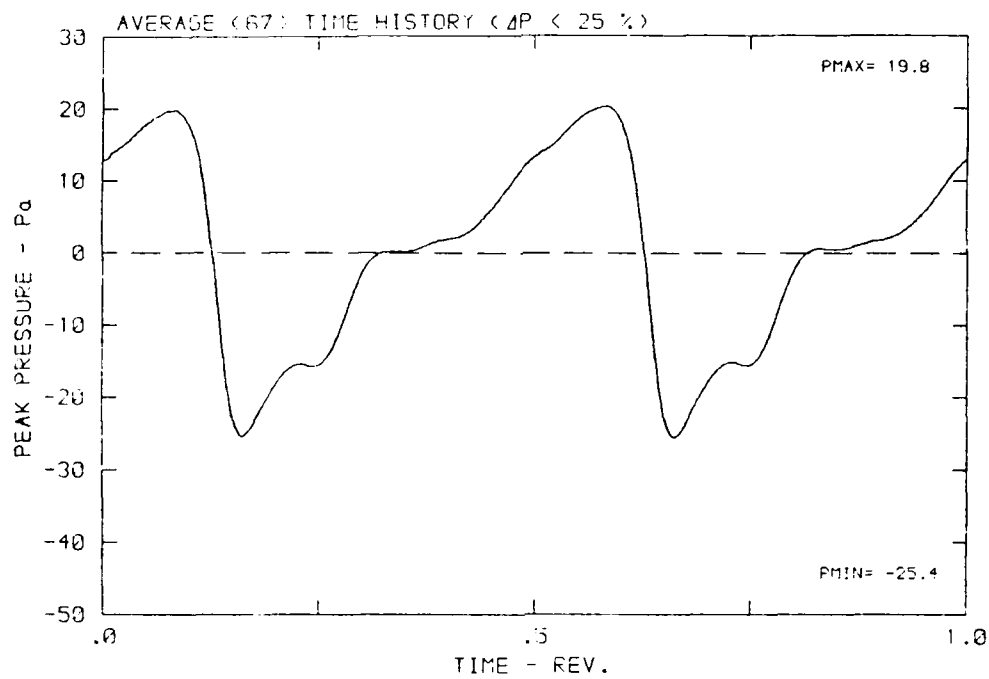
DATA POINT: CC-2 RUN: 118 MP: 5

β : 24.4° MH: .6700 n: 2100 rpm ν : .200 ϕ : .0° T: 297.7 K



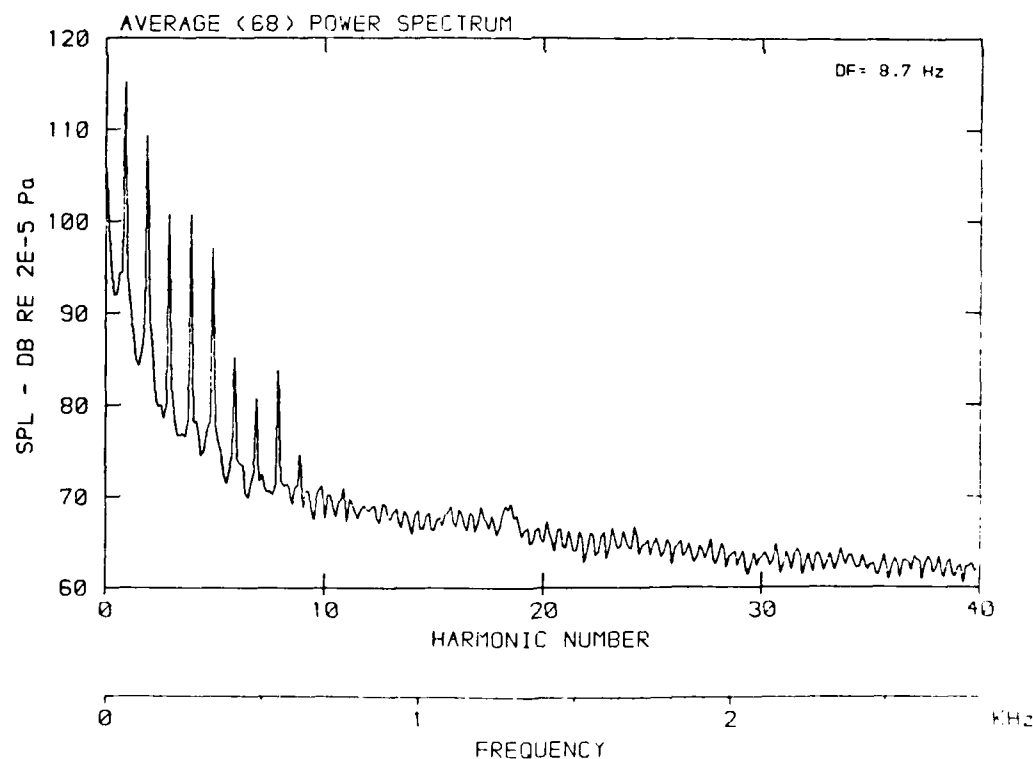
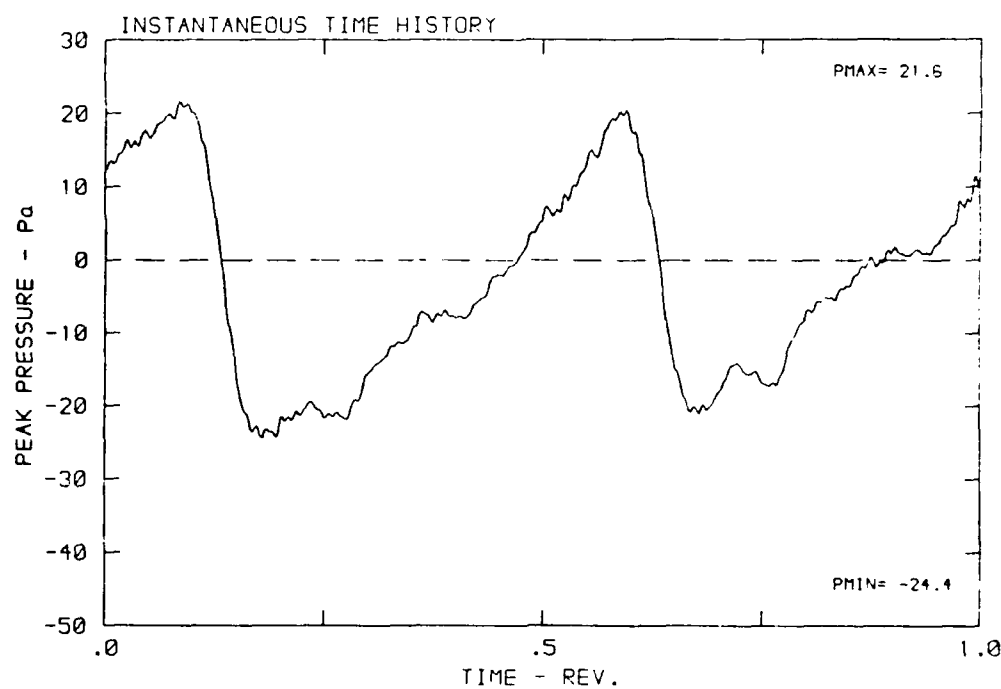
DATA POINT: CC-2 RUN: 118 MP: 5

β : 24.4° MH: .6700 n: 2100 rpm ν_{cu} : .200 ϕ : .0° T: 287.7 K



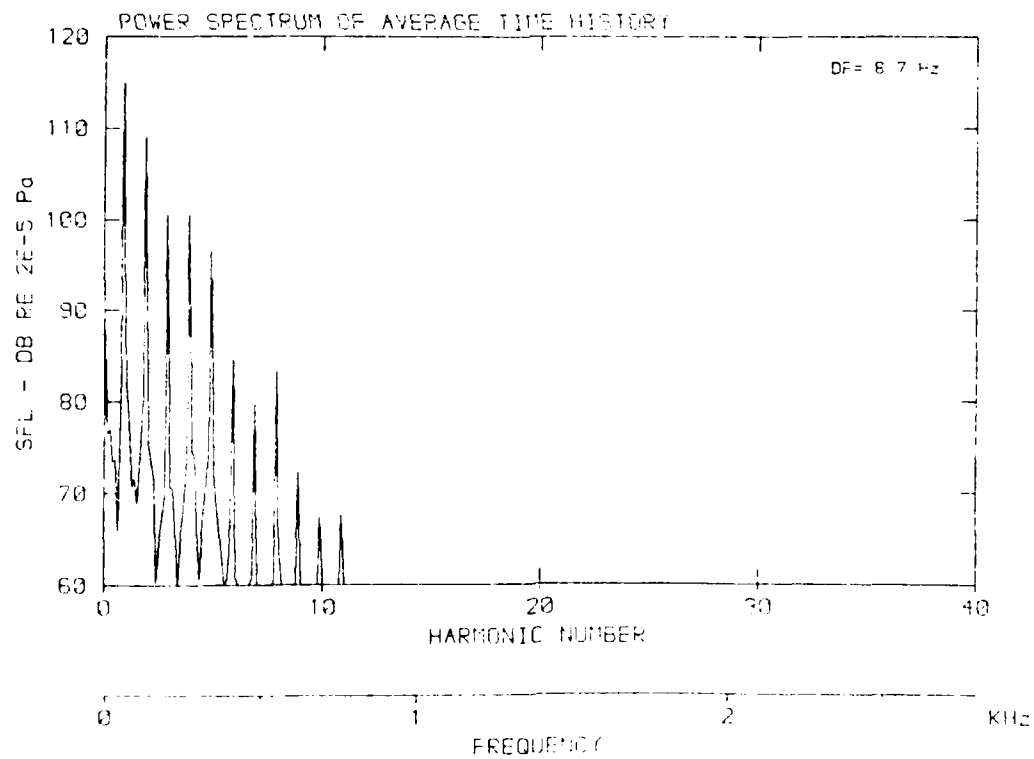
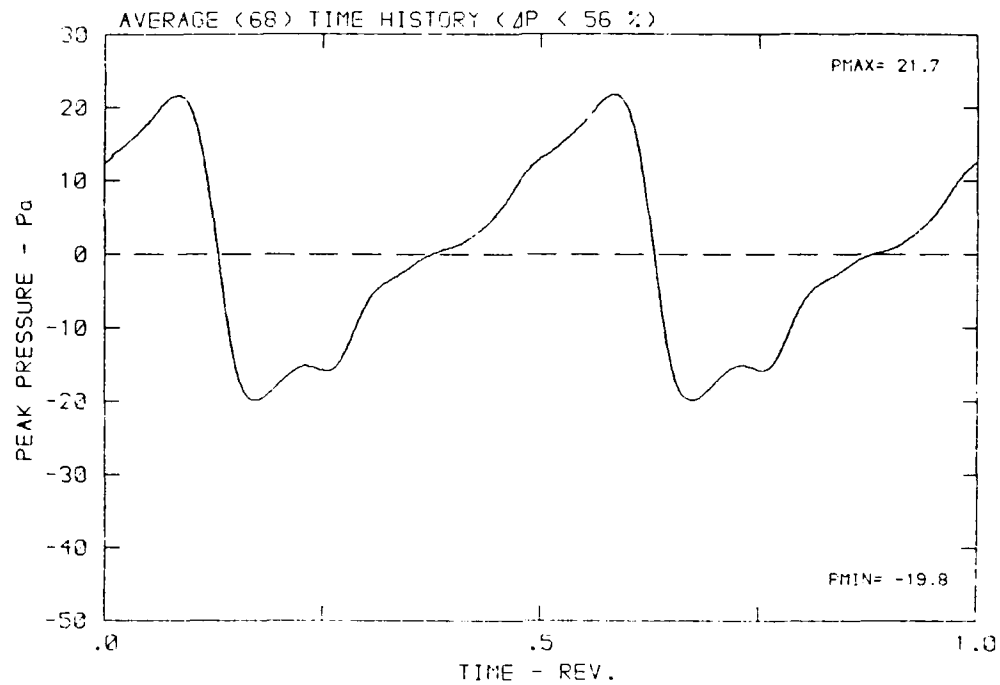
DATA POINT: CC-2 RUN: 118 MP: 6

β : 24.4° MH: .6700 n: 2100 rpm v/u: .200 ϕ : .0° T: 287.7 K



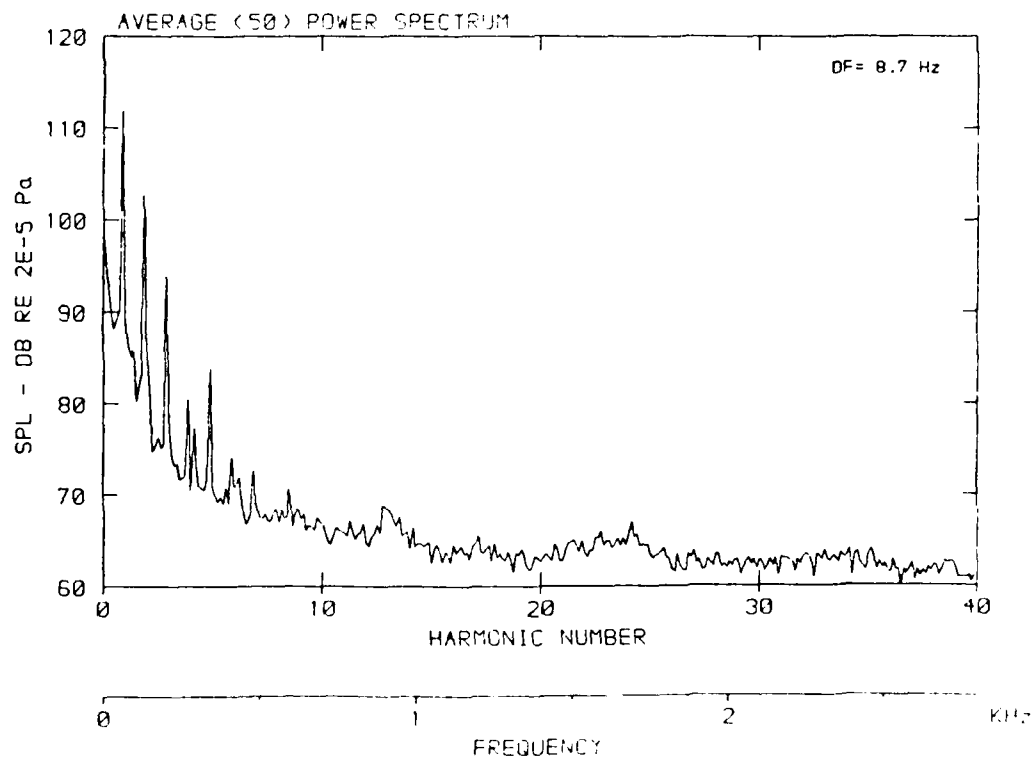
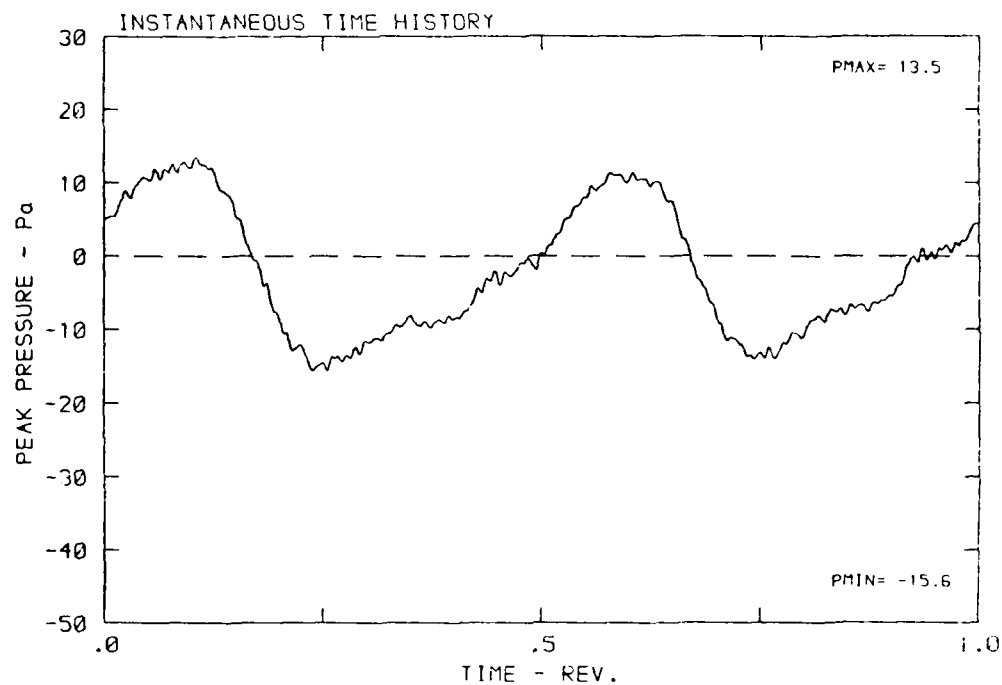
DATA POINT: CC-2 RUN: 118 MP: 6

β : 24.4° MH: .6700 n: 2100 rpm v/u : .200 ϕ : .0° T: 287.7 K



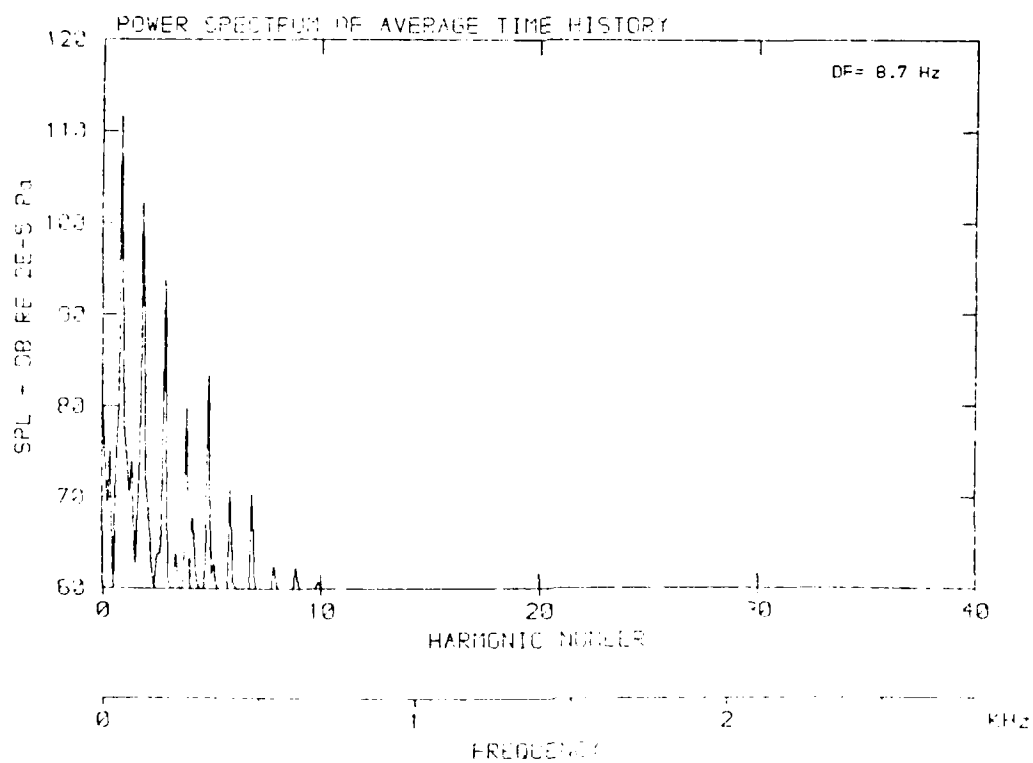
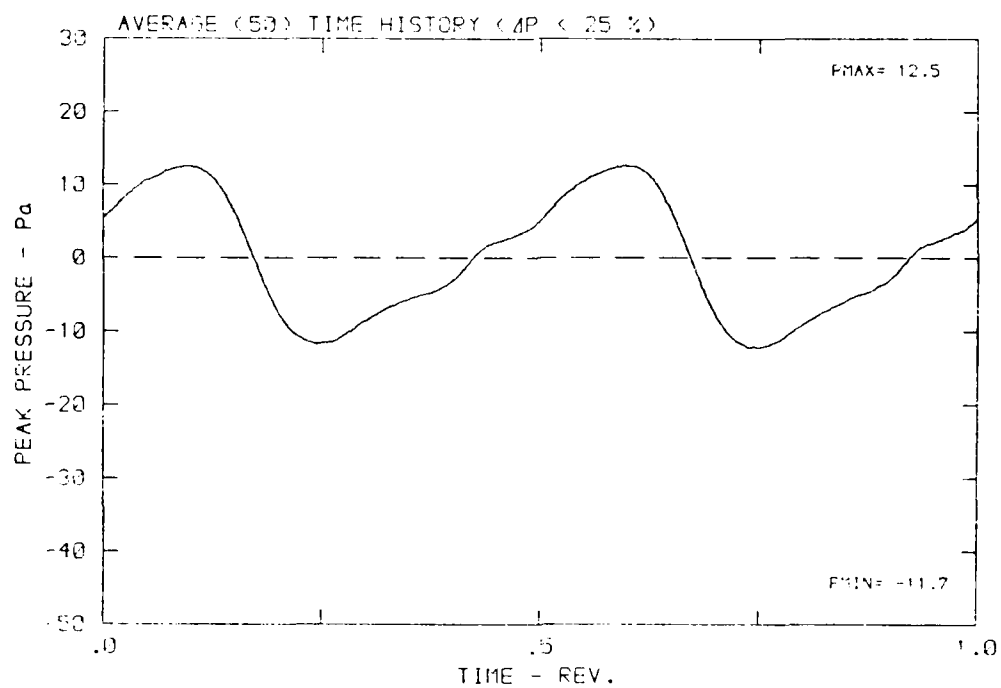
DATA POINT: CC-2 RUN: 118 IIP: 7

β : 24.4° MH: .6700 n: 2100 rpm v/u : .200 ϕ : .0° T: 297.7 K



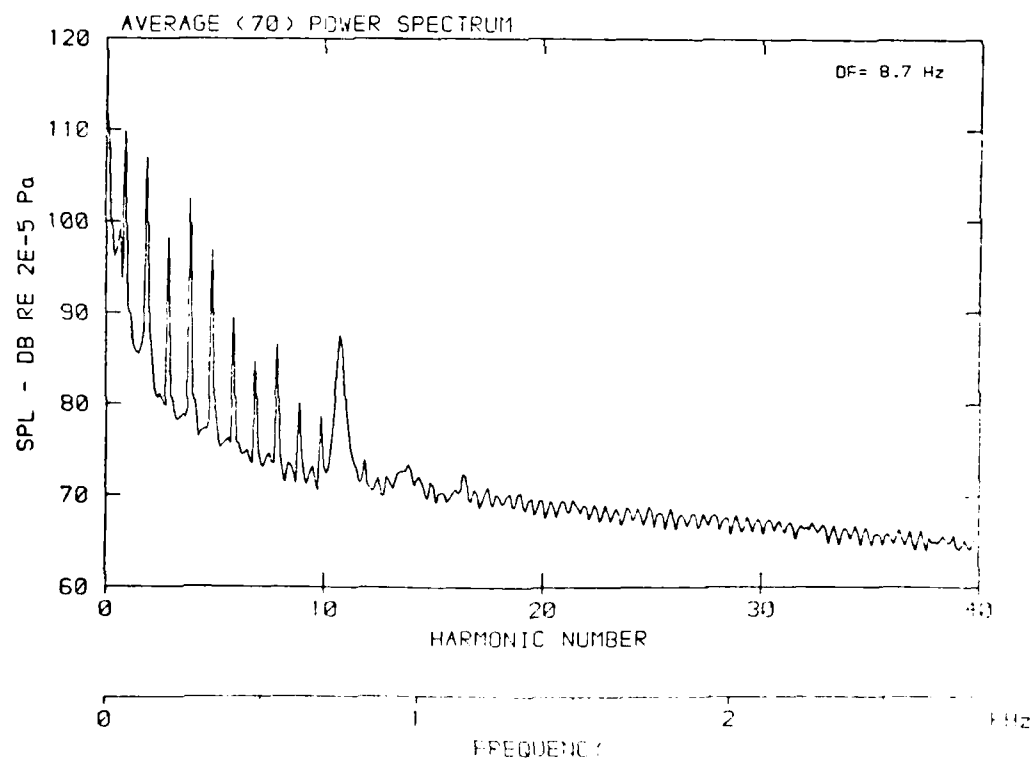
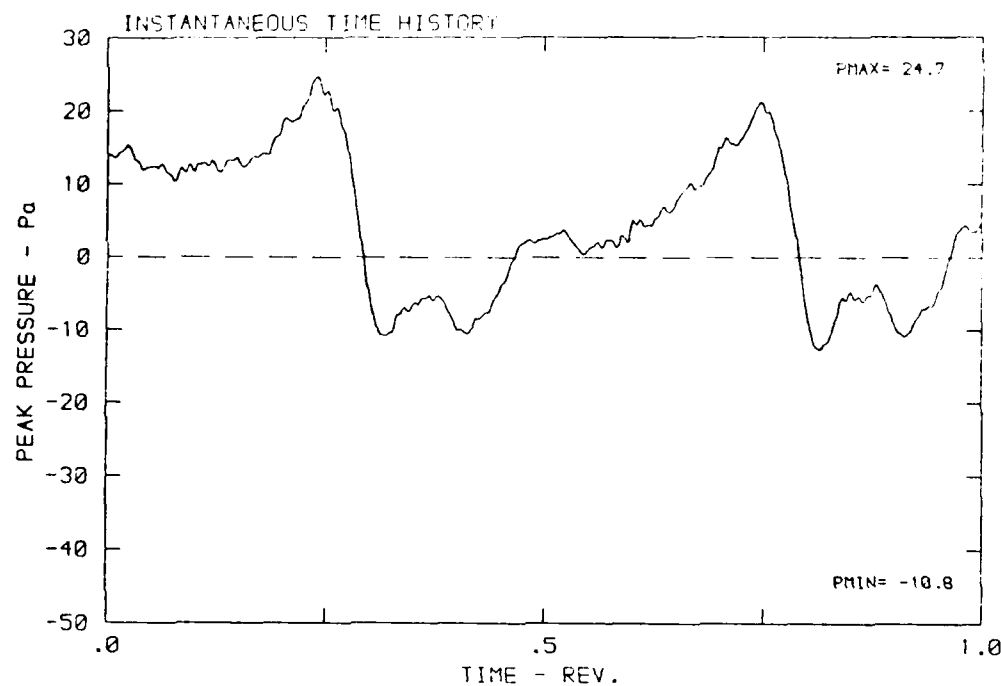
DATA POINT: CC-2 RUN: 118 MP: 7

β : 24.4° MH: .6700 n: 2100 rpm v/u : .200 ϕ : .0° T: 287.7 K



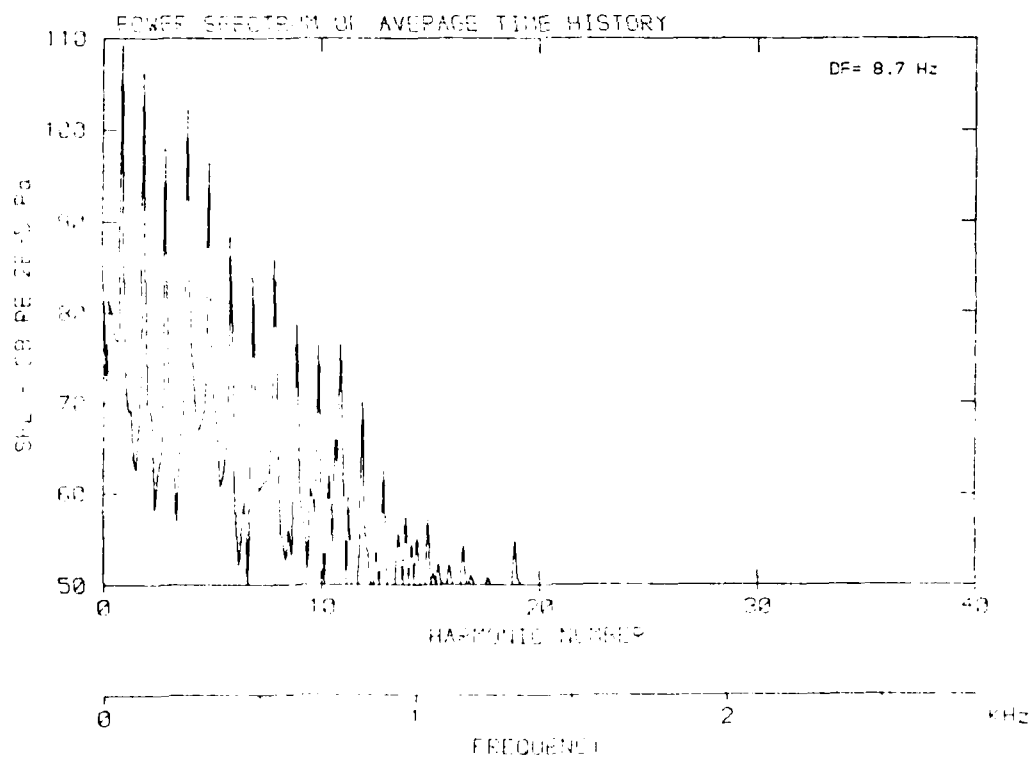
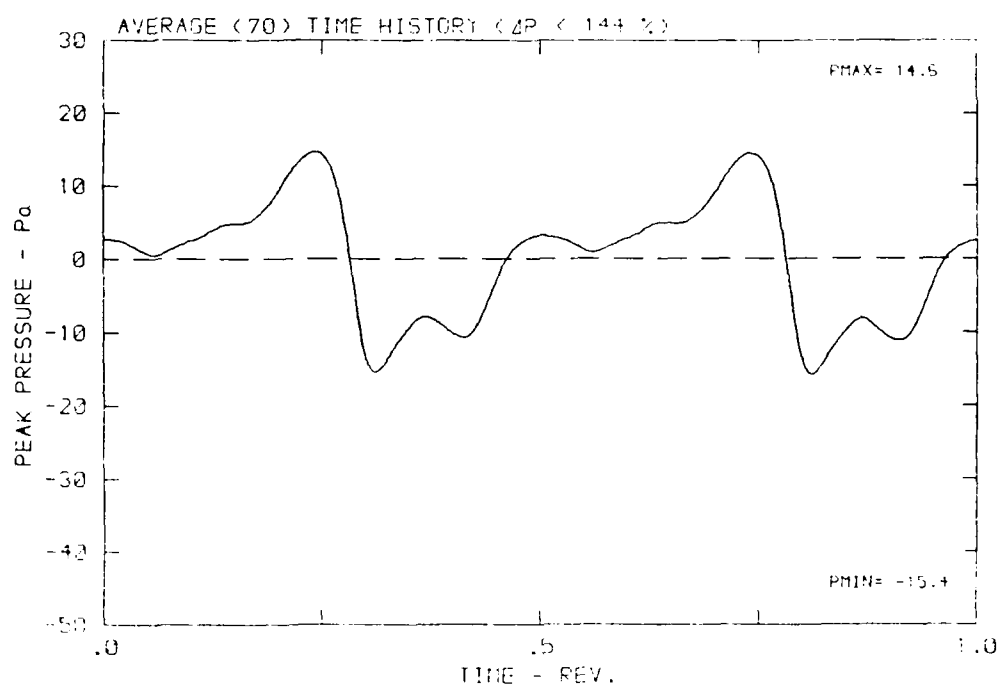
DATA POINT: CC-2 RUN: 118 MP: 9

β : 24.4° RH: .6700 n: 2100 rpm v/u : .200 ϕ : .0° T: 287.7 K



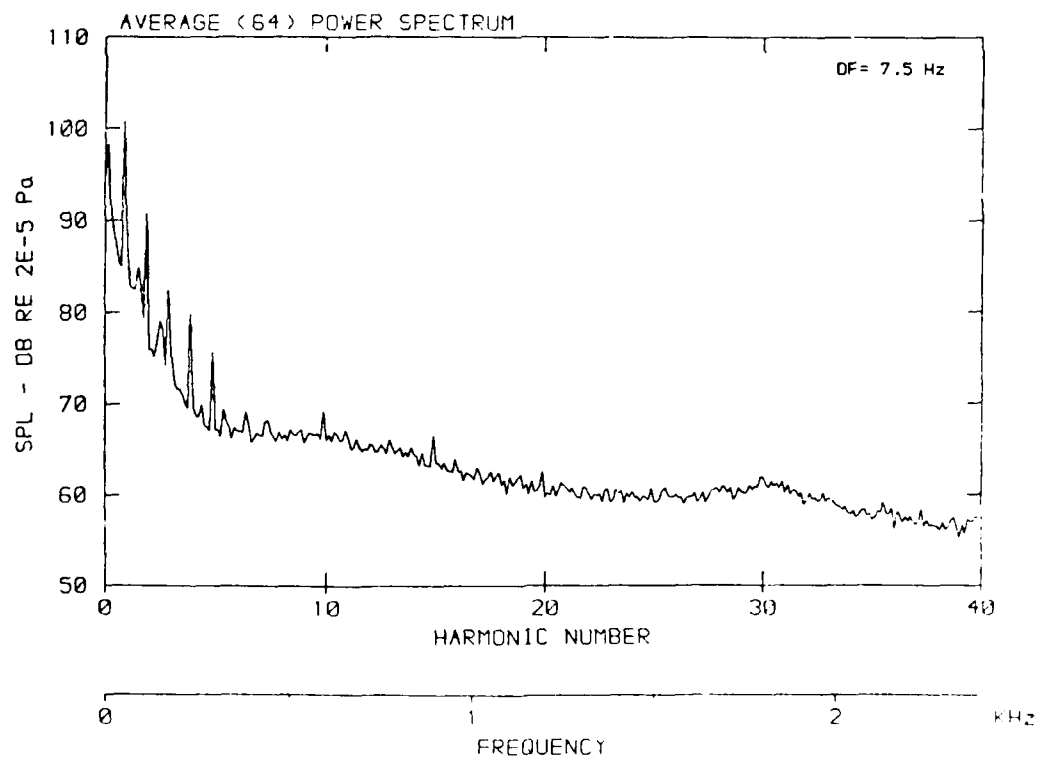
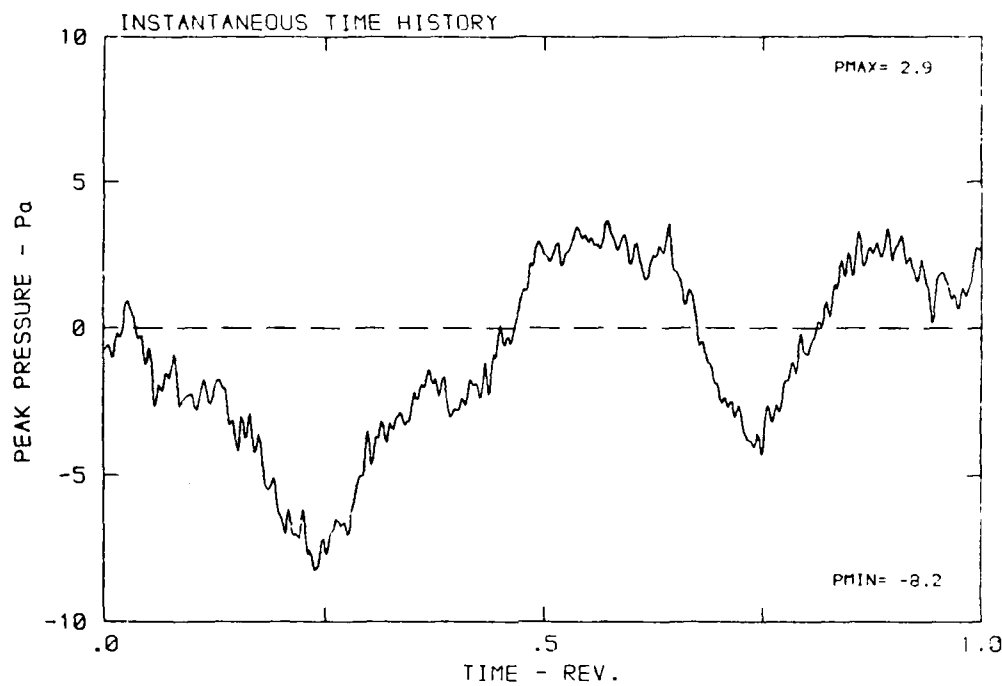
DATA POINT: CC-2 RUN: 118 MP: 3

β : 24.4° MH: .6700 n: 2100 rpm λ : .200 ϕ : .0° T: 267.7 K



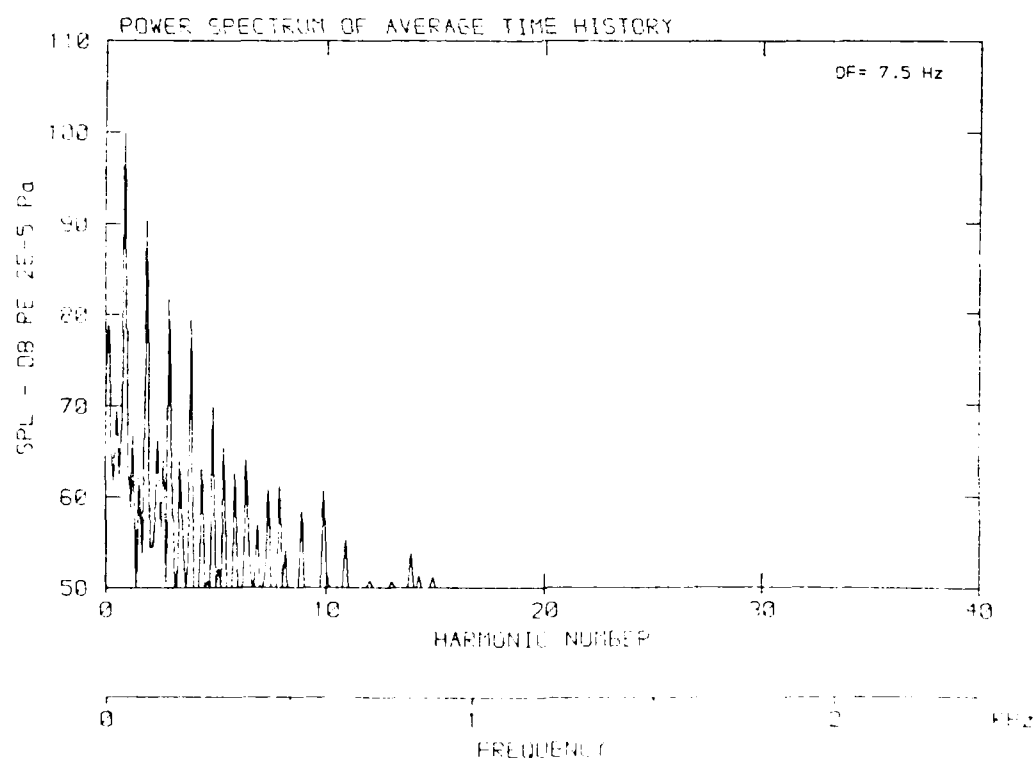
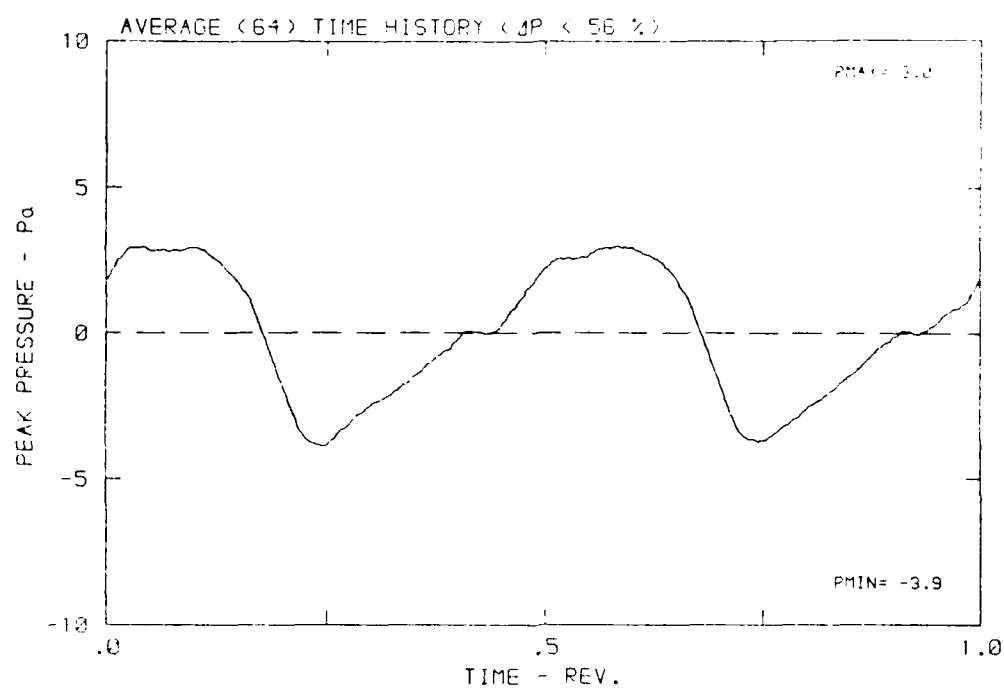
DATA POINT: CC-3 RUN: 119 MP: 1

β : 24.4° MH: .5925 n: 1800 rpm v/u: .257 ϕ : .0° T: 293.1°



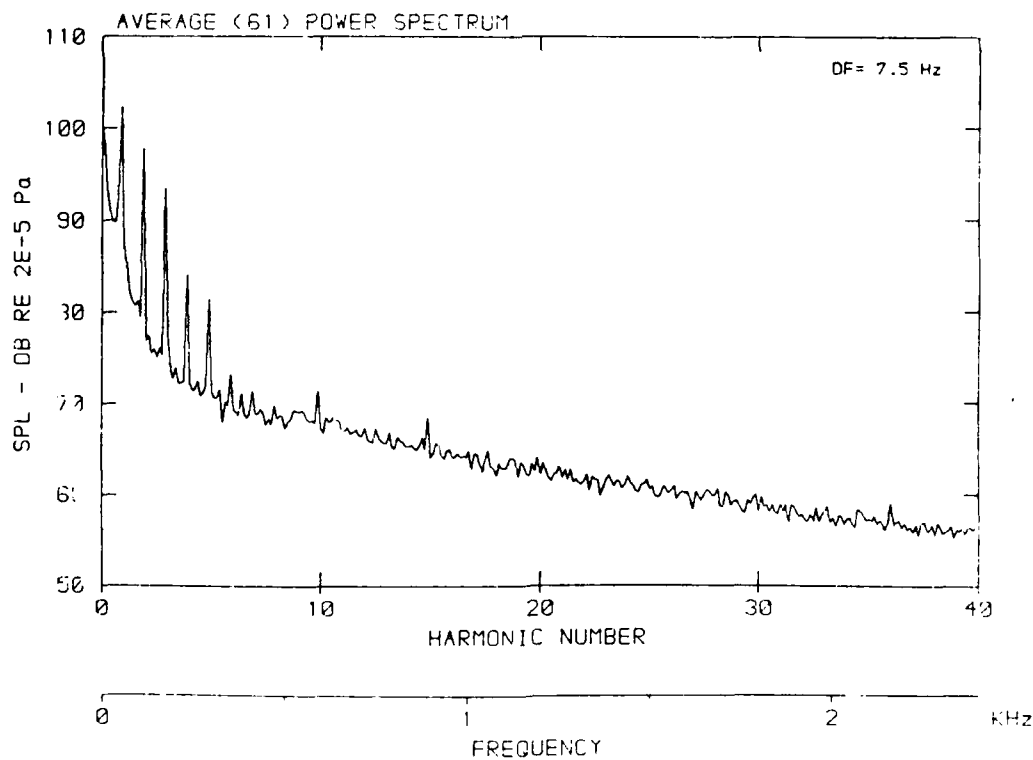
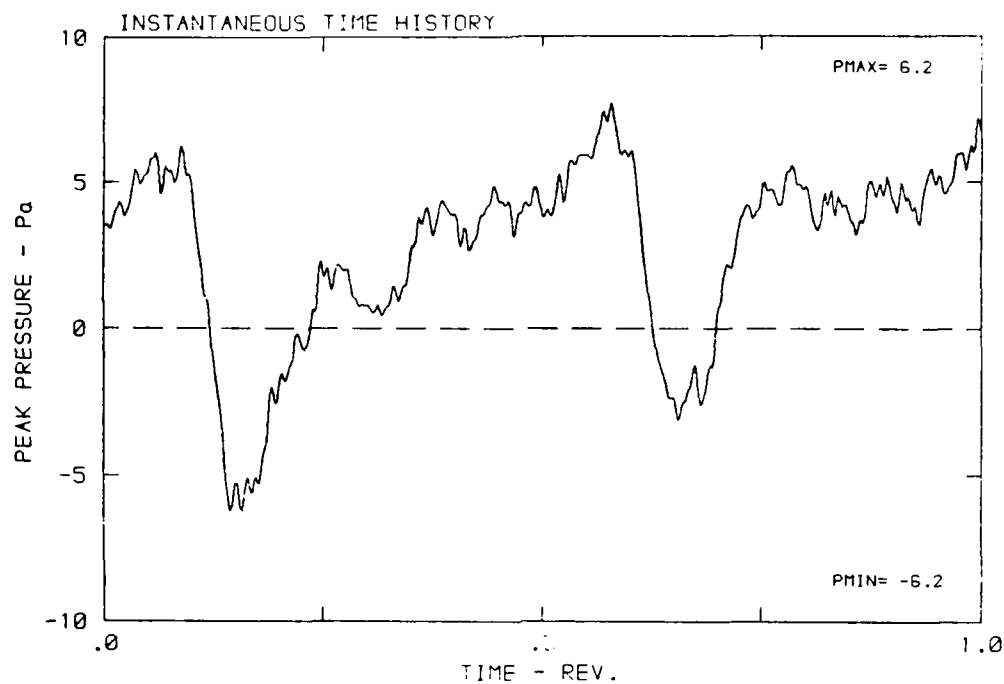
DATA POINT: CC-3 RUN: 119 MP: 1

β : 24.4° MH: .5825 n: 1800 rpm v/u : .267 ϕ : .0° T: 288.1 K



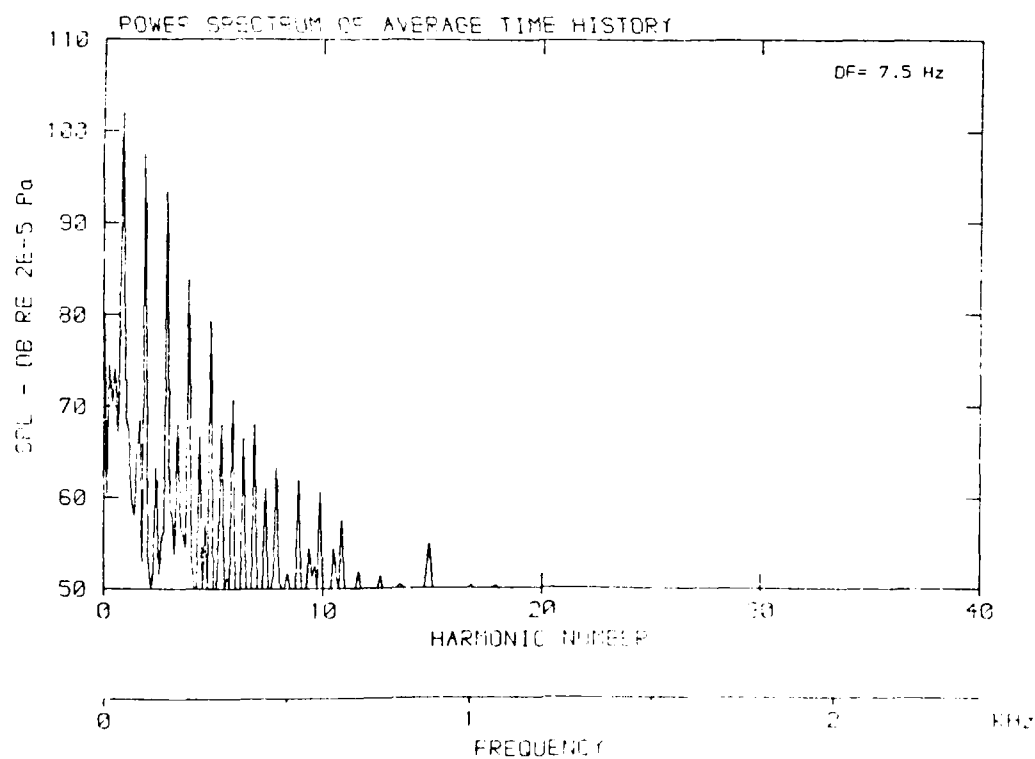
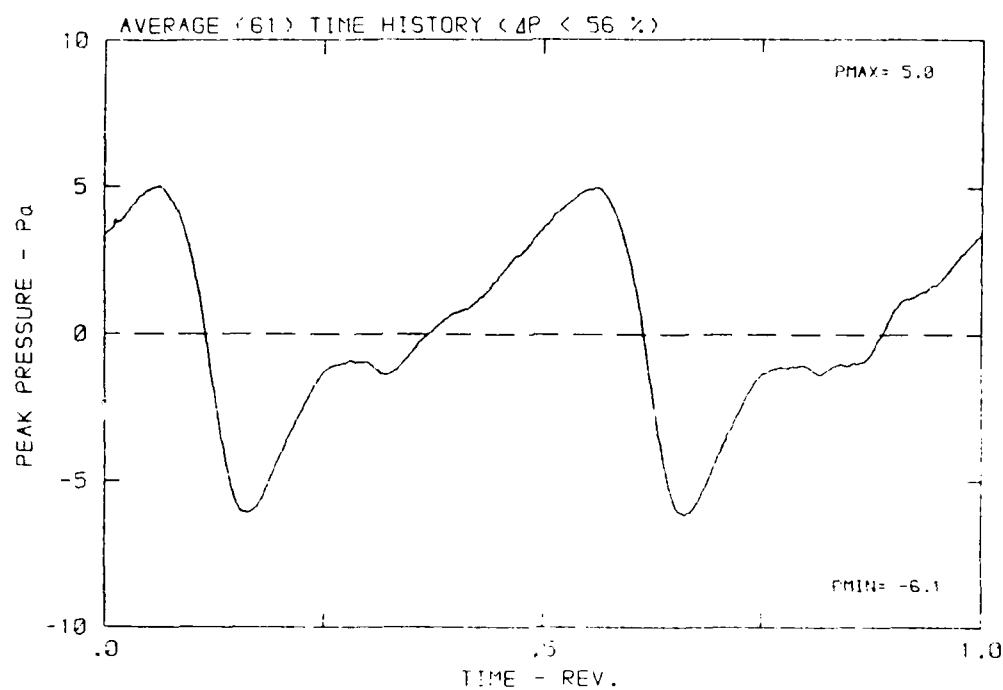
DATA POINT: CC-3 RUN: 119 MP: 1

β : 24.4° MH: .5825 n: 1800 rpm γ : .267 ϕ : .0° T: 298.1 K



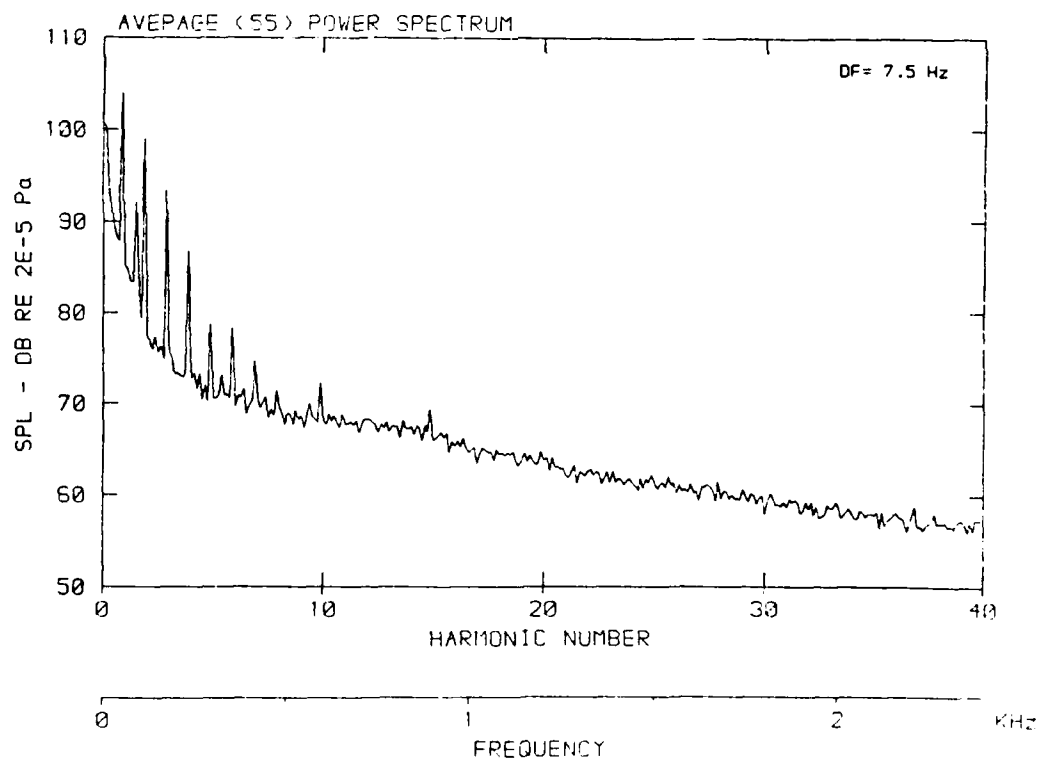
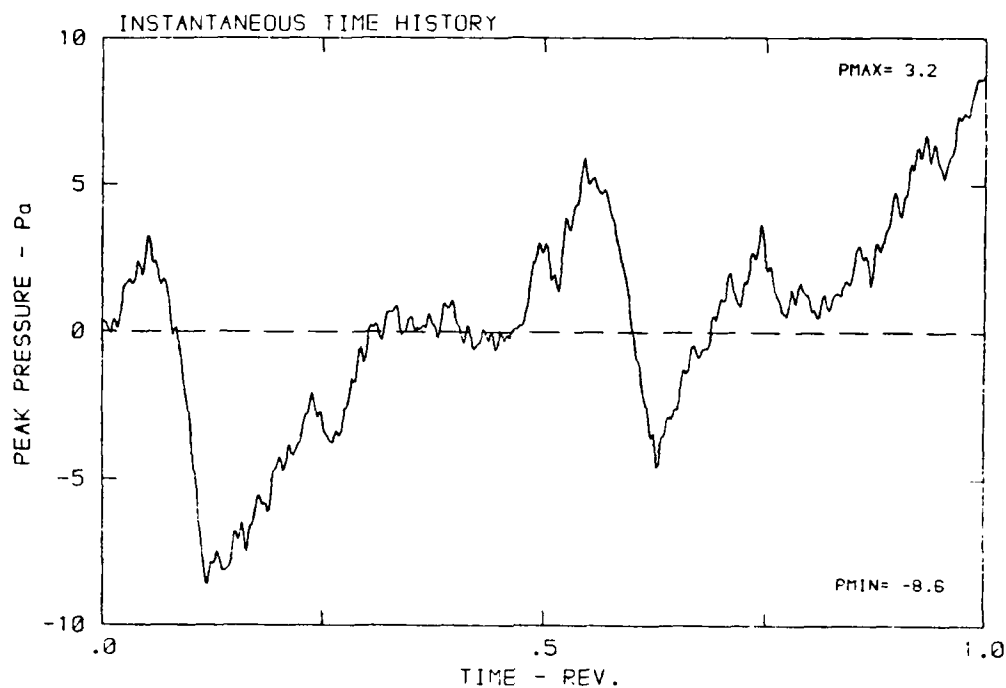
DATA POINT: CC-3 RUN: 119 MP: 2

β : 24.4° MH: .5825 n: 1800 rpm v/u : .267 ϕ : .0° T: 288.1 K



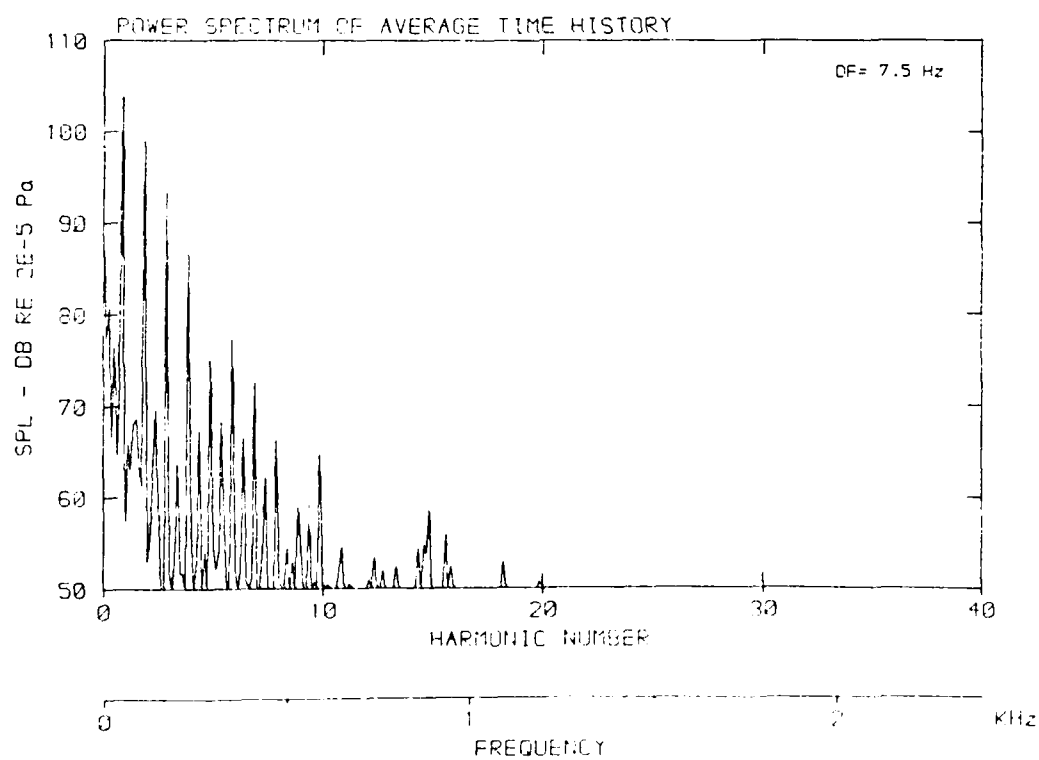
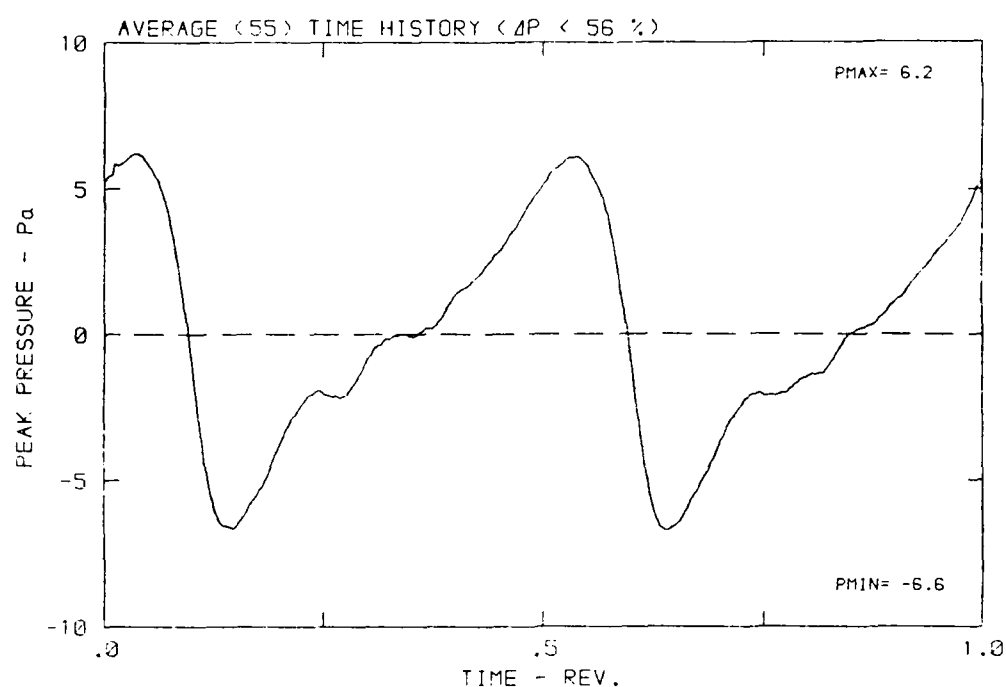
DATA POINT: CC-3 RUN: 119 MP: 3

β : 24.4° MH: .5825 n: 1800 rpm v/u : .267 ϕ : .0° T: 288.1 K



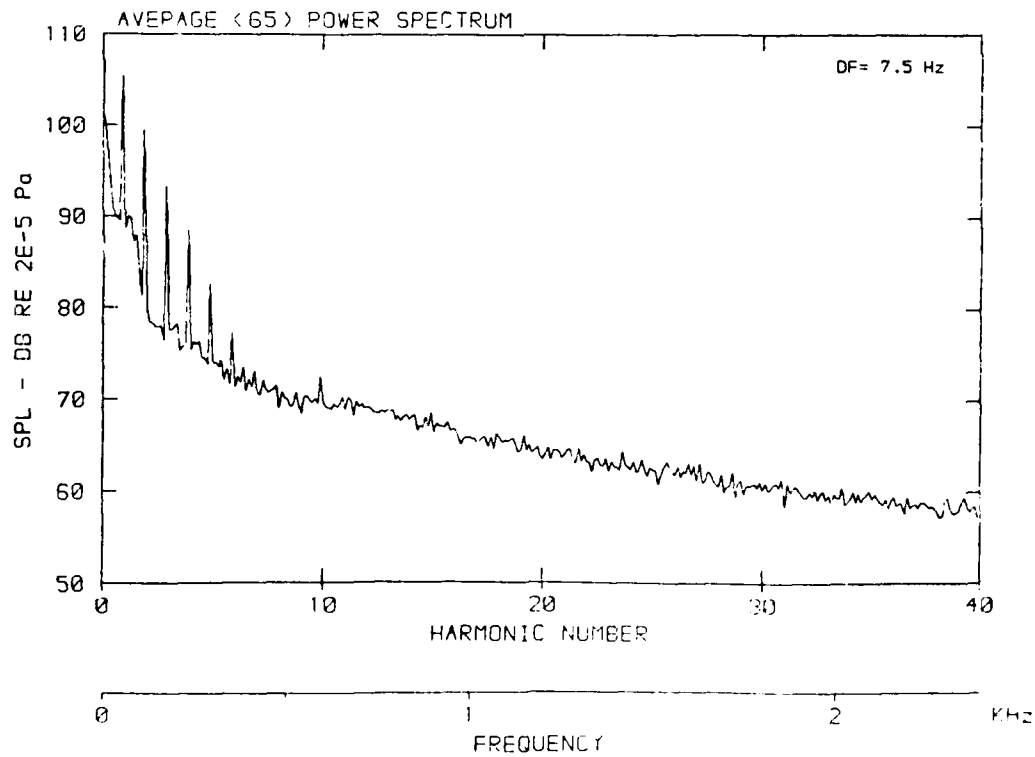
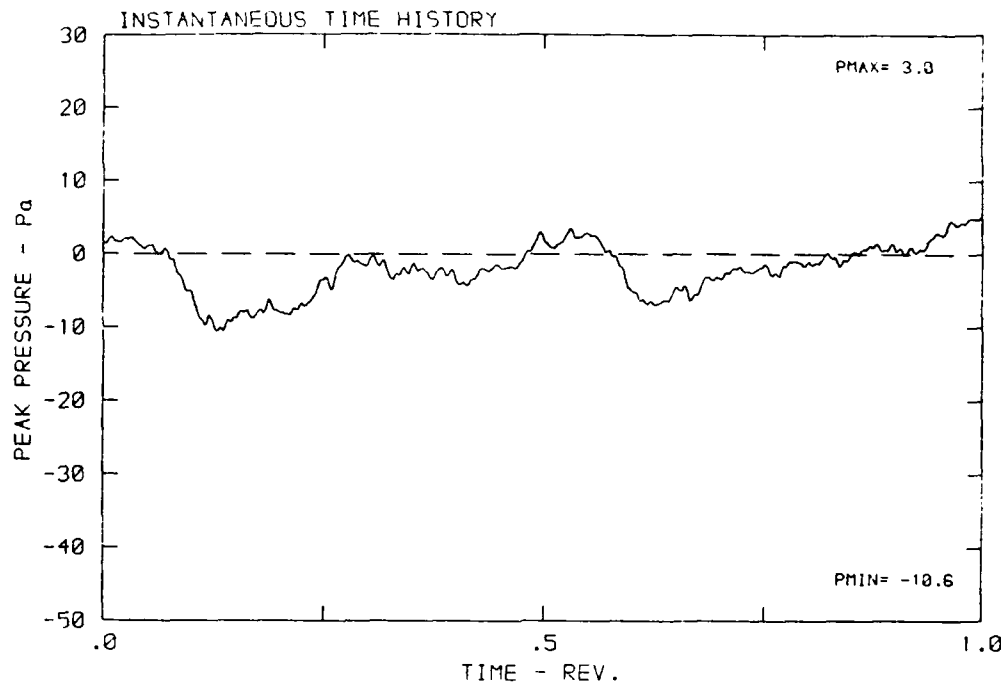
DATA POINT: CC-3 RUN: 119 MP: 3

β : 24.4° MH: .5825 n: 1800 rpm v/u: .267 ϕ : .0° T: 288.1 K



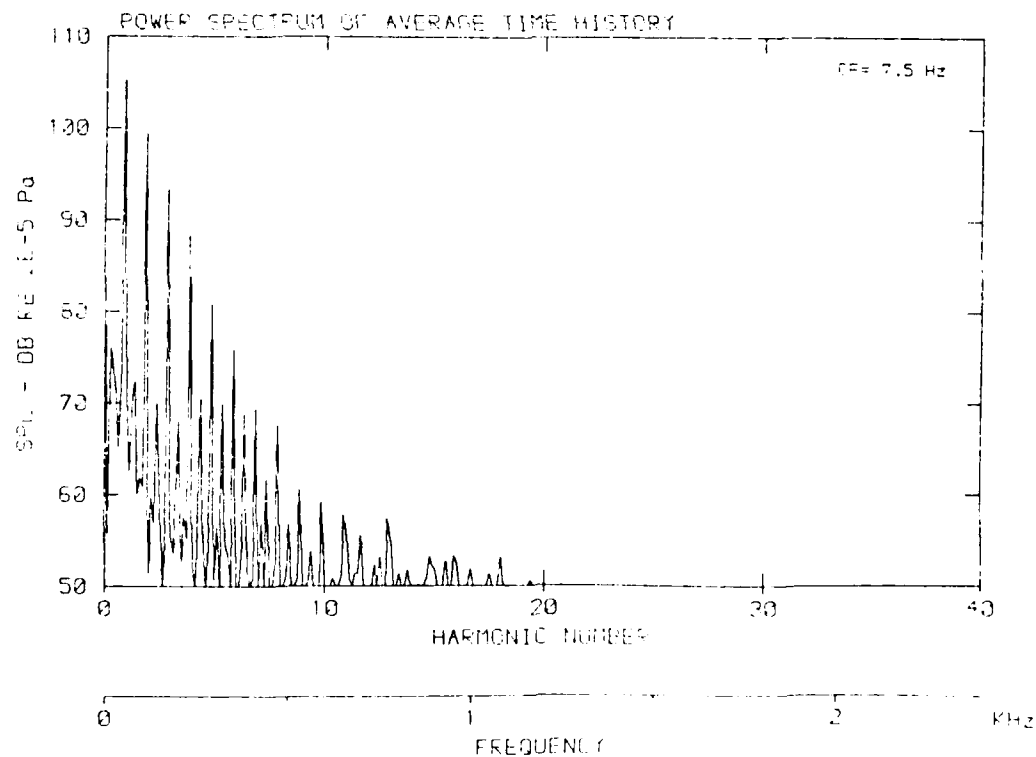
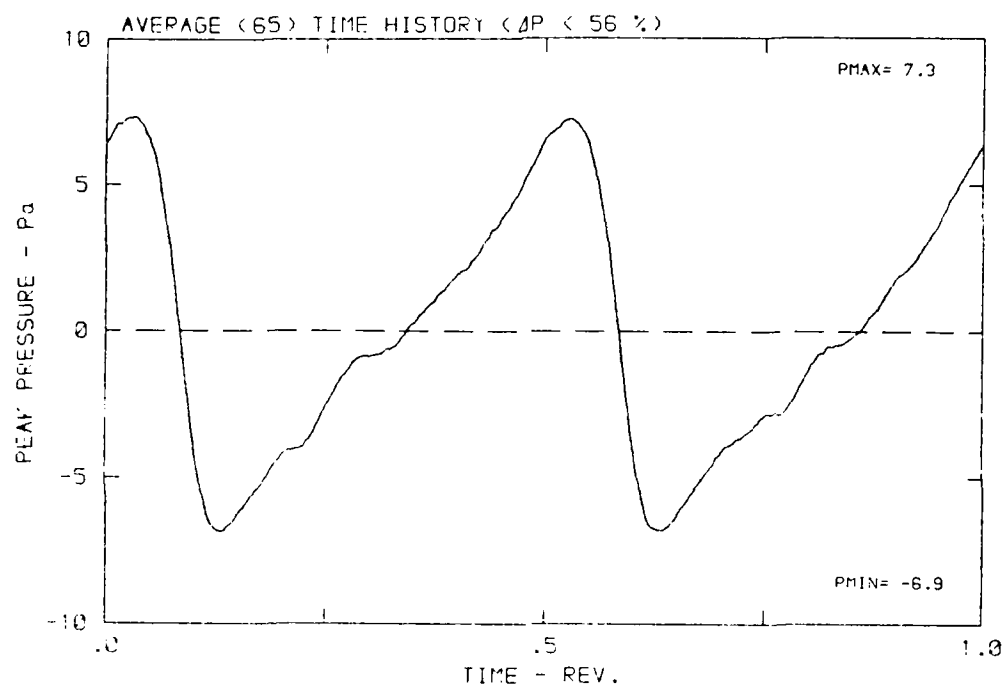
DATA POINT: CC-3 RUN: 119 MP: 4

β : 24.4° MH: .5825 n: 1800 rpm v/u : .267 ϕ : .0° T: 253.1° K



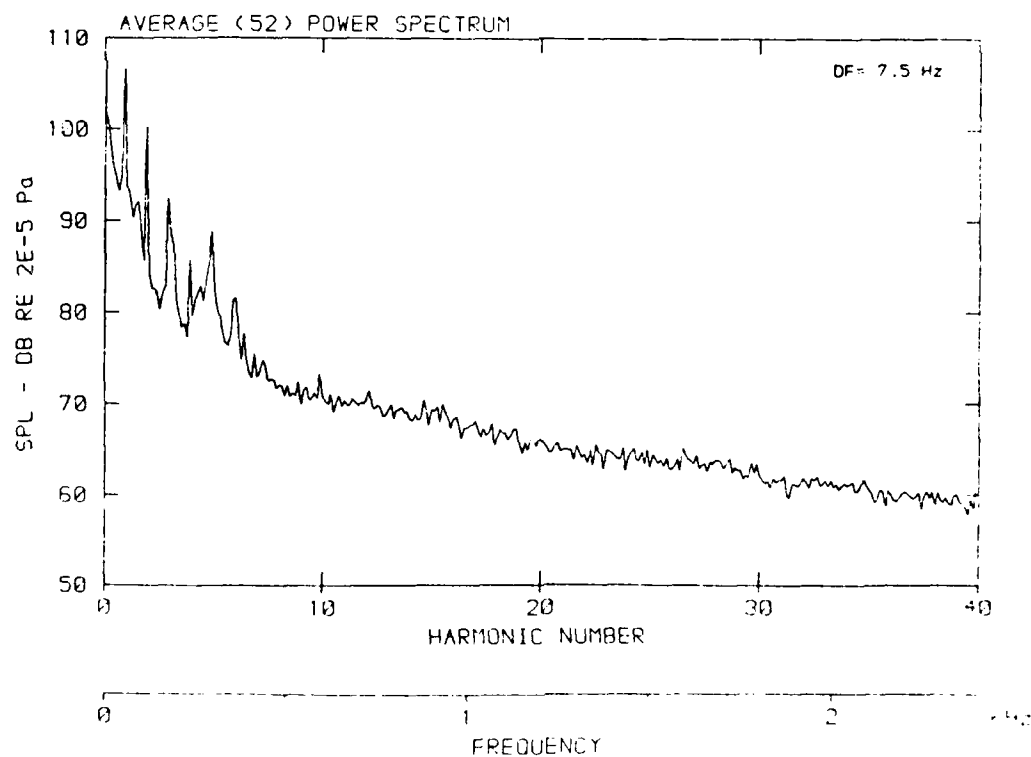
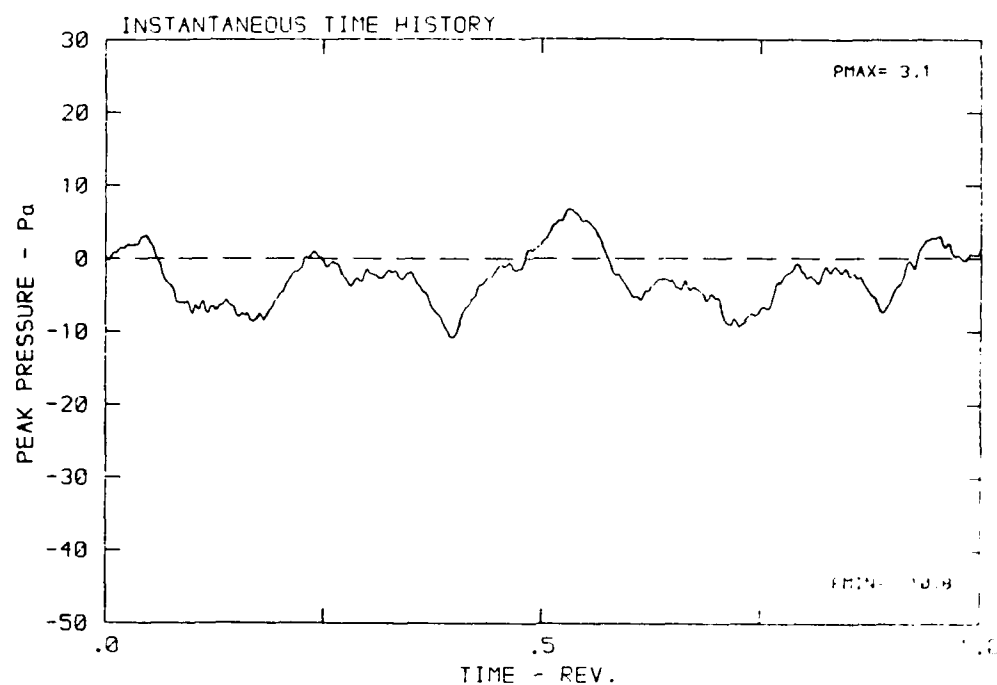
DATA POINT: CC-3 RUN: 119 MP: 4

β : 24.4° MH: .5825 n: 1800 rpm v/u : .267 ϕ : .0° T: 288.1 K



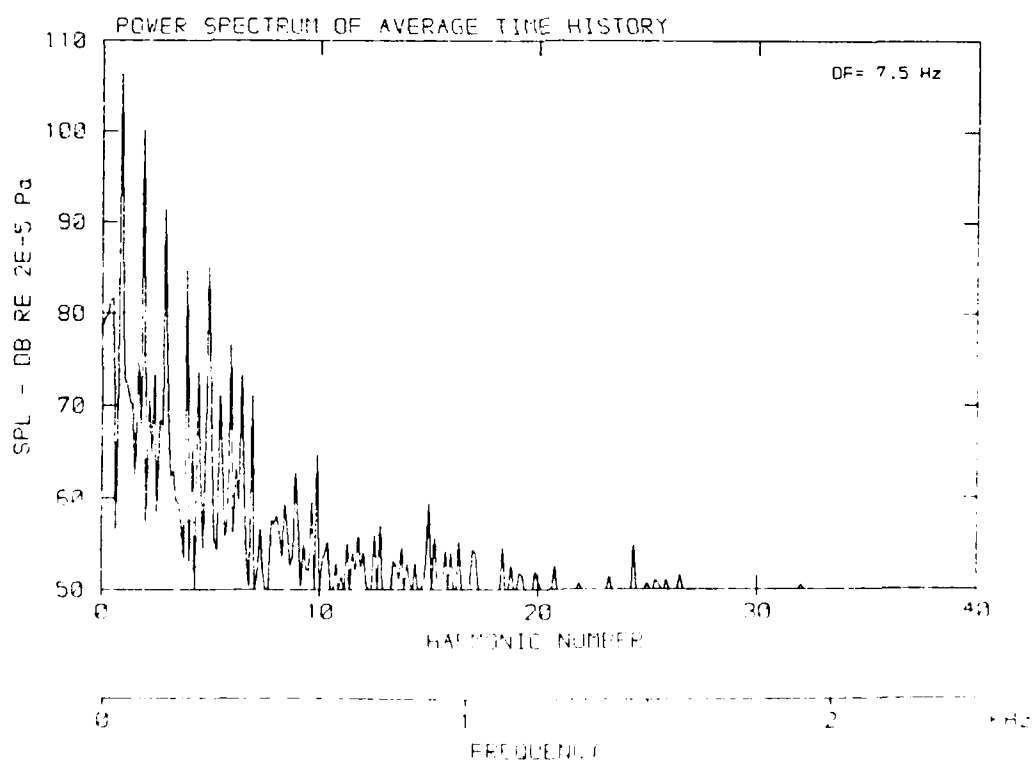
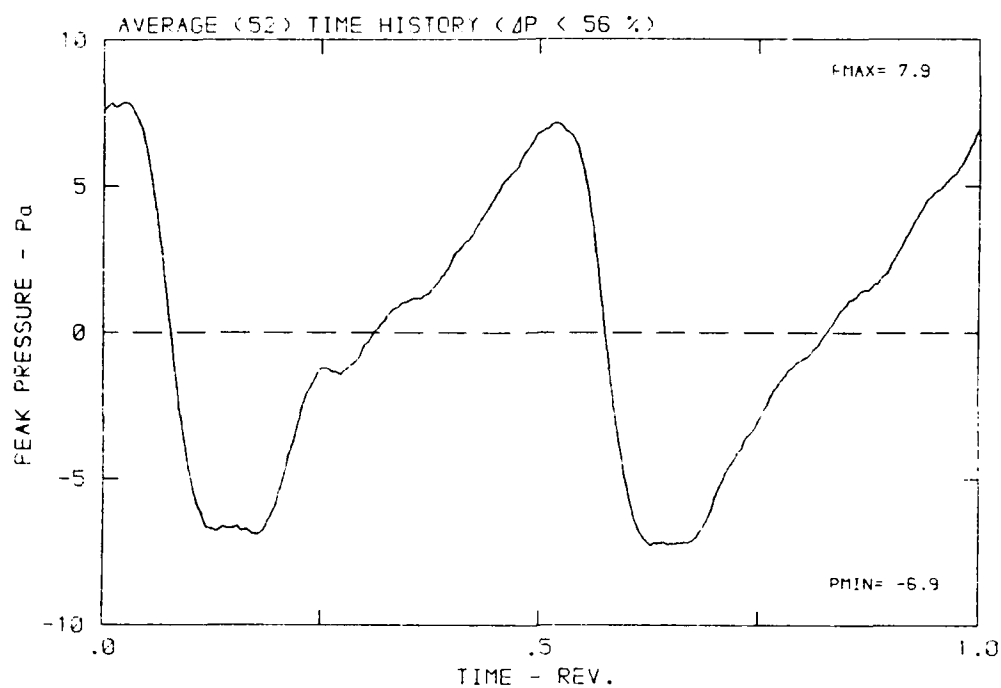
DATA POINT: CC-3 RUN: 119 IIP: 5

β : 24.4° MH: .5825 n: 1800 rpm v/u : .267 ϕ : .0° T: 288.1 K



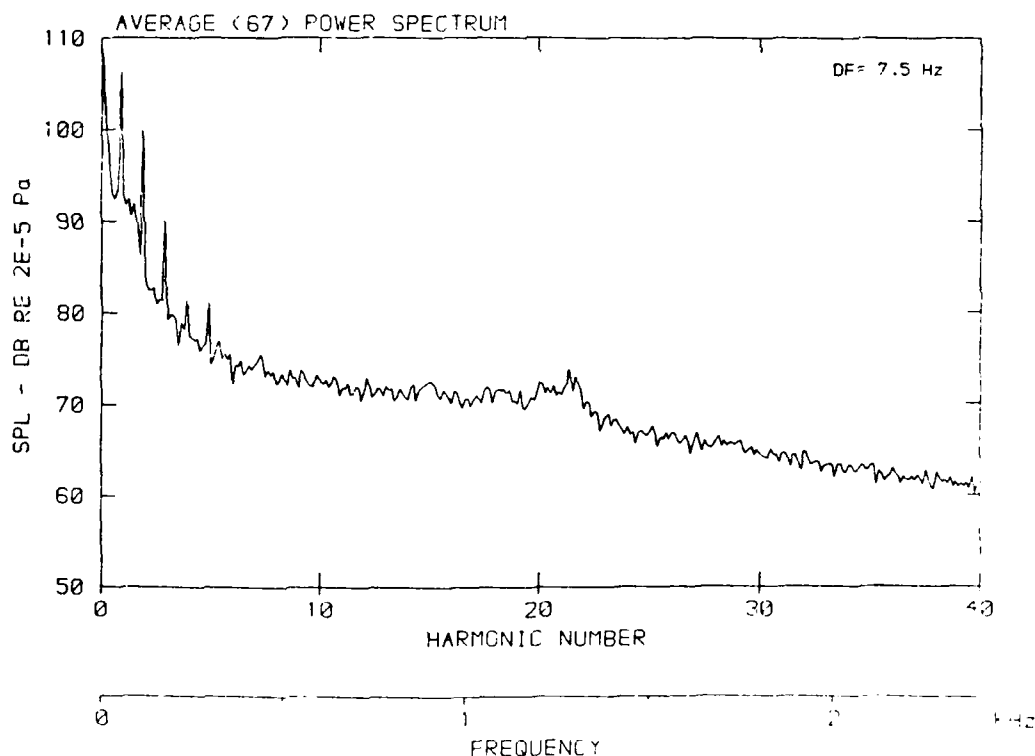
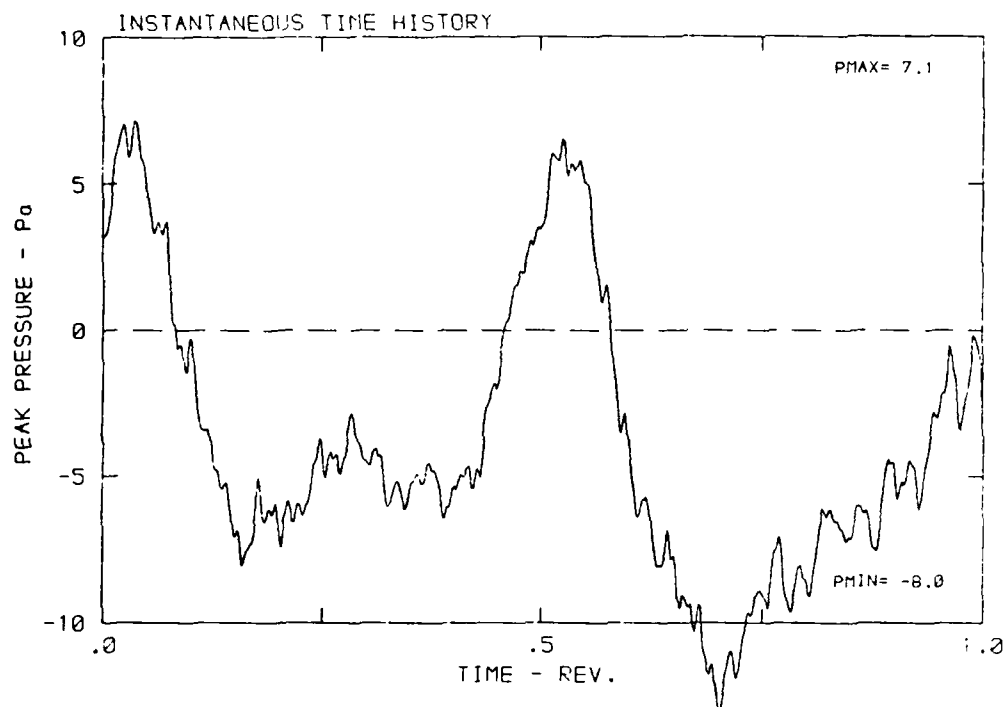
DATA POINT: CC-3 RUN: 119 MP: 5

β : 24.4° MH: .5825 n: 1800 rpm v/u : .267 ϕ : .0° T: 288.1 K



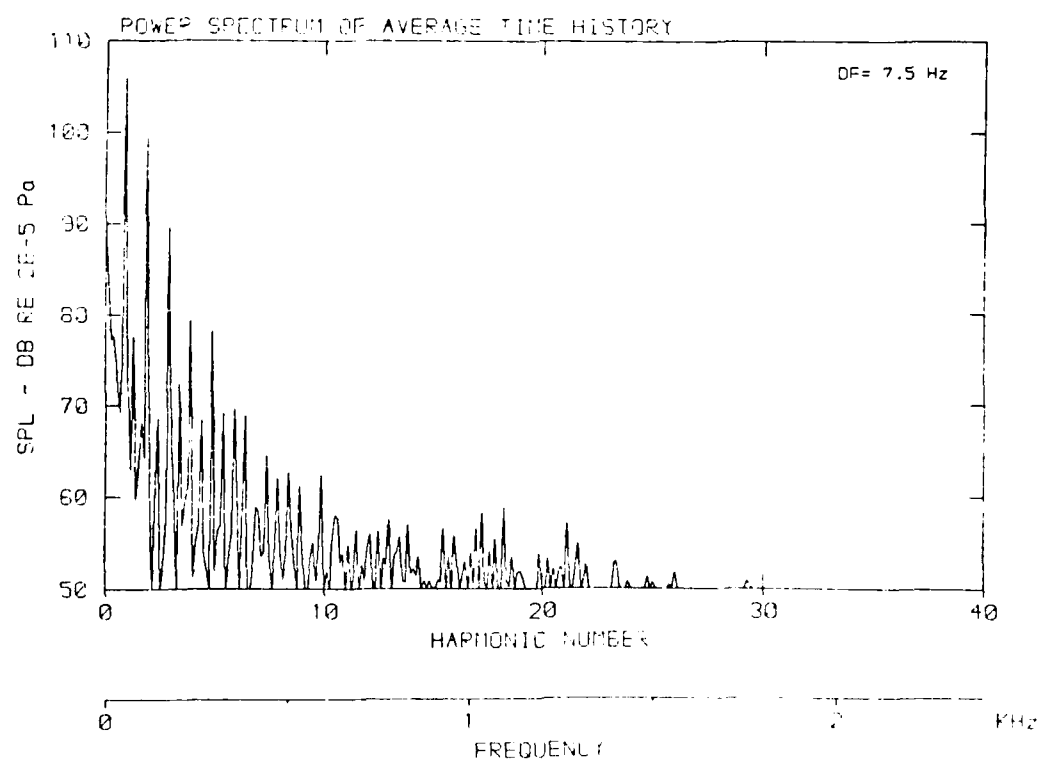
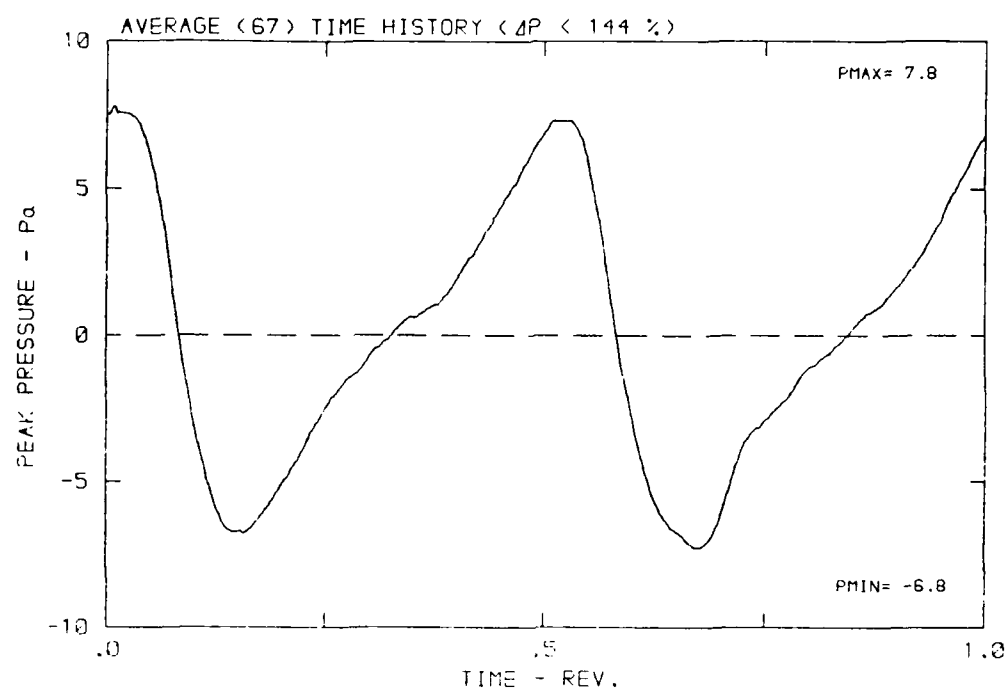
DATA POINT: CC-3 RUN: 119 MP: 6

β : 24.4° MH: .5825 n: 1800 rpm v/u : .267 ϕ : .0° T: 238.1 K



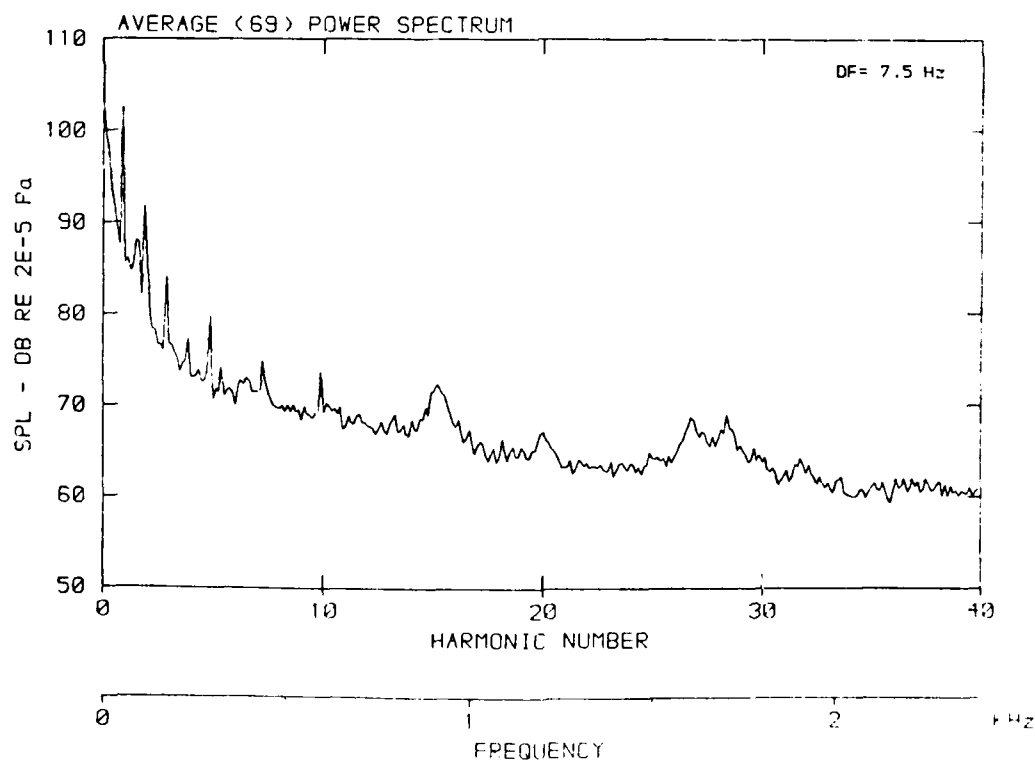
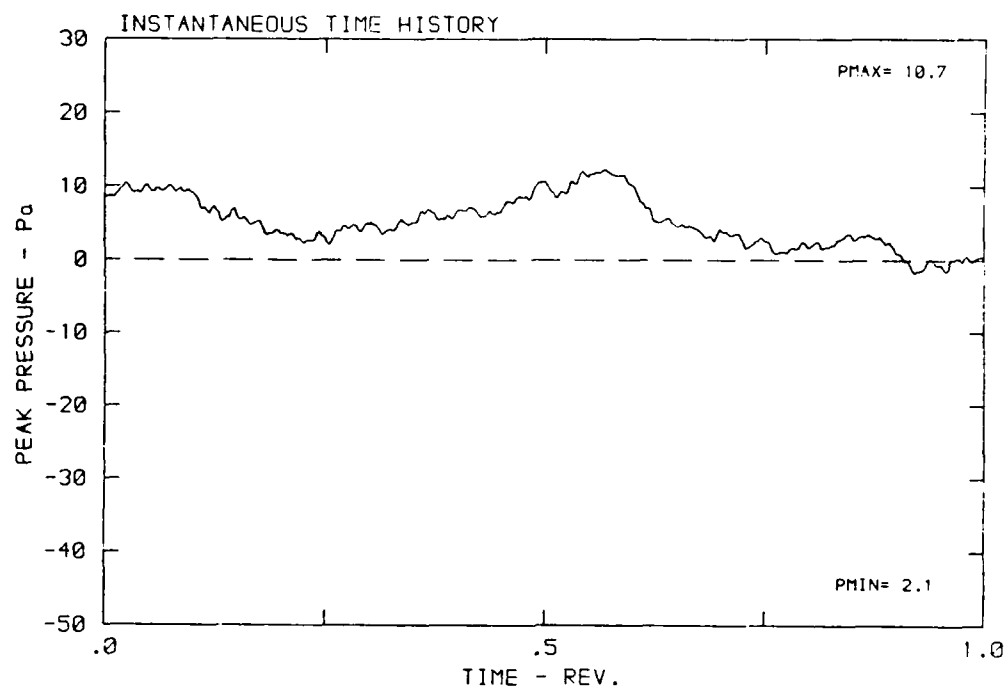
DATA POINT: CC-3 RUN: 119 MP: 6

β : 24.4° MH: .5825 n: 1800 rpm v/u : .267 ϕ : $.0^\circ$ T: 288.1 K



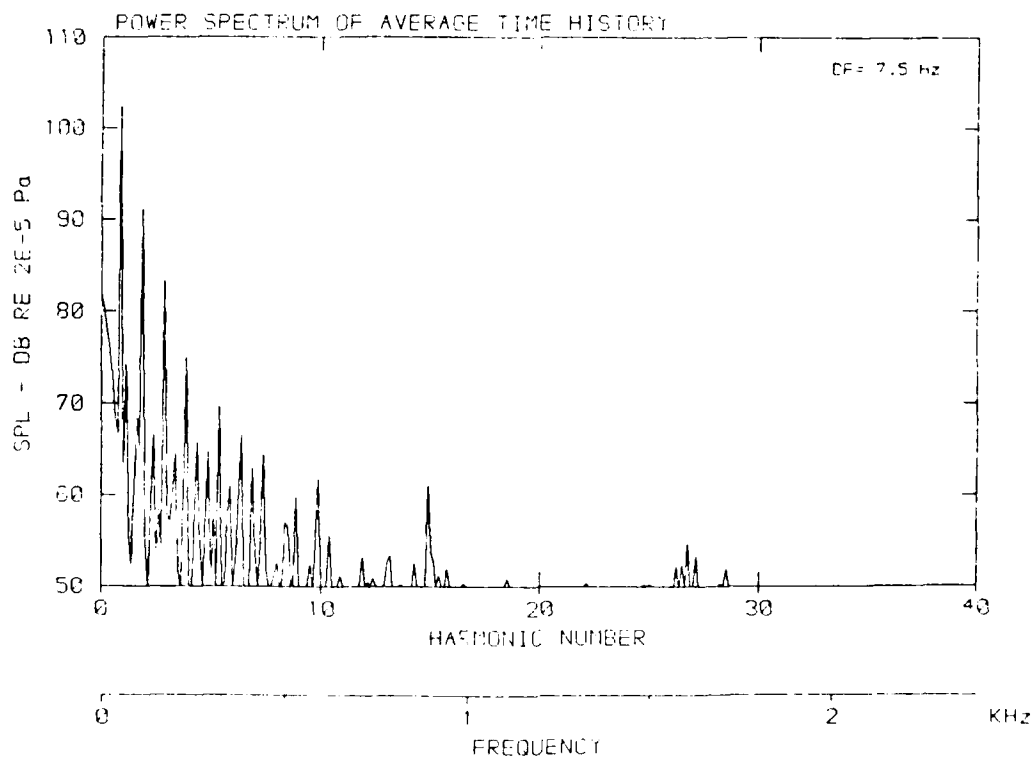
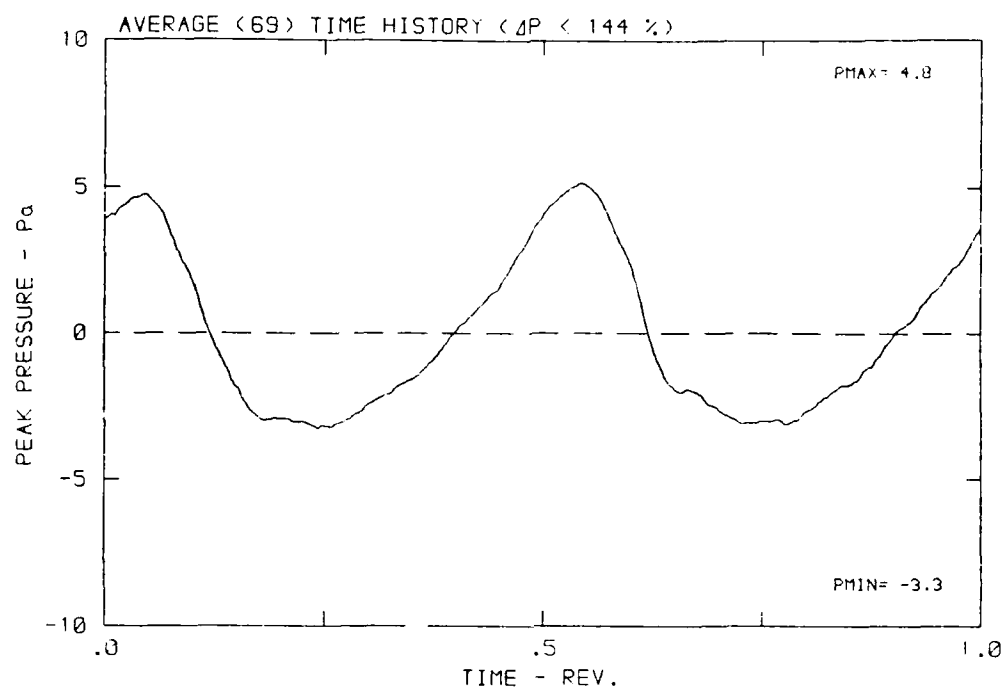
DATA POINT: CC-3 RUN: 119 MP: 7

β : 24.4° MH: .5825 n: 1800 rpm v/u : .267 ϕ : .0° T: 288.1 K



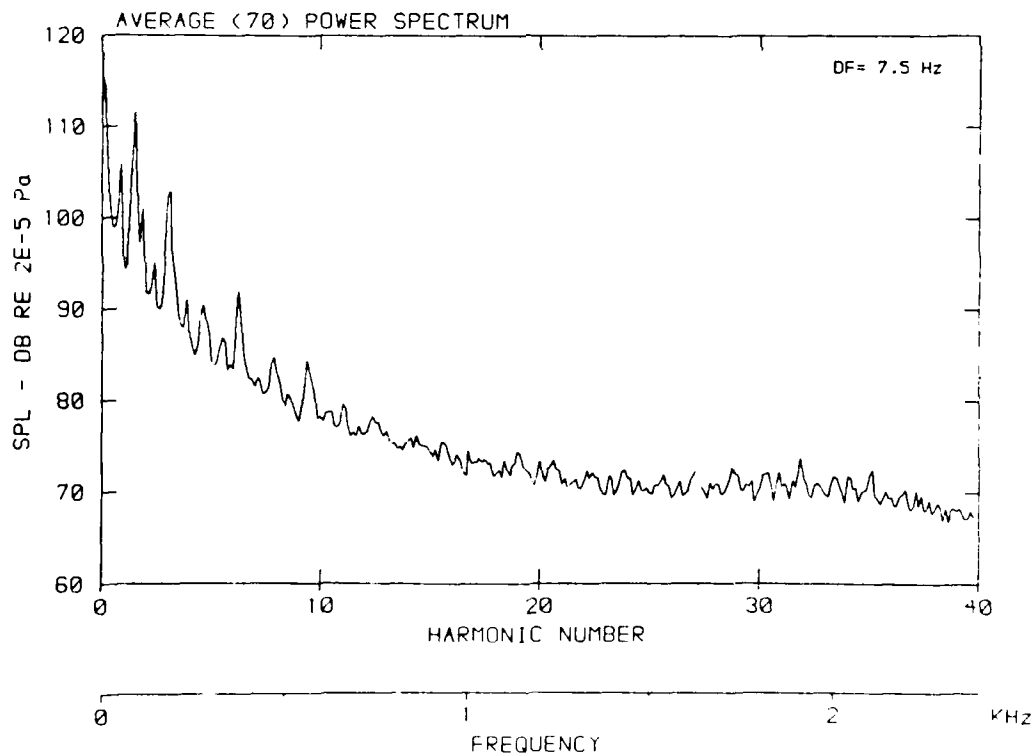
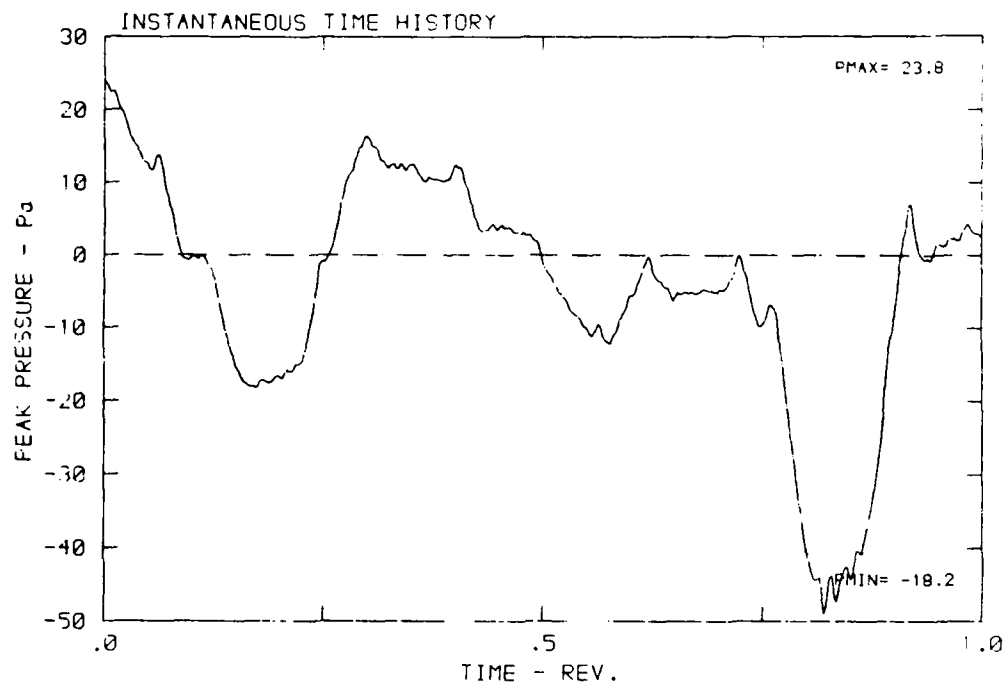
DATA POINT: CC-3 RUN: 119 MP: 7

β : 24.4° MH: .5825 n: 1800 rpm v/u : .267 ϕ : .0° T: 288.1 K



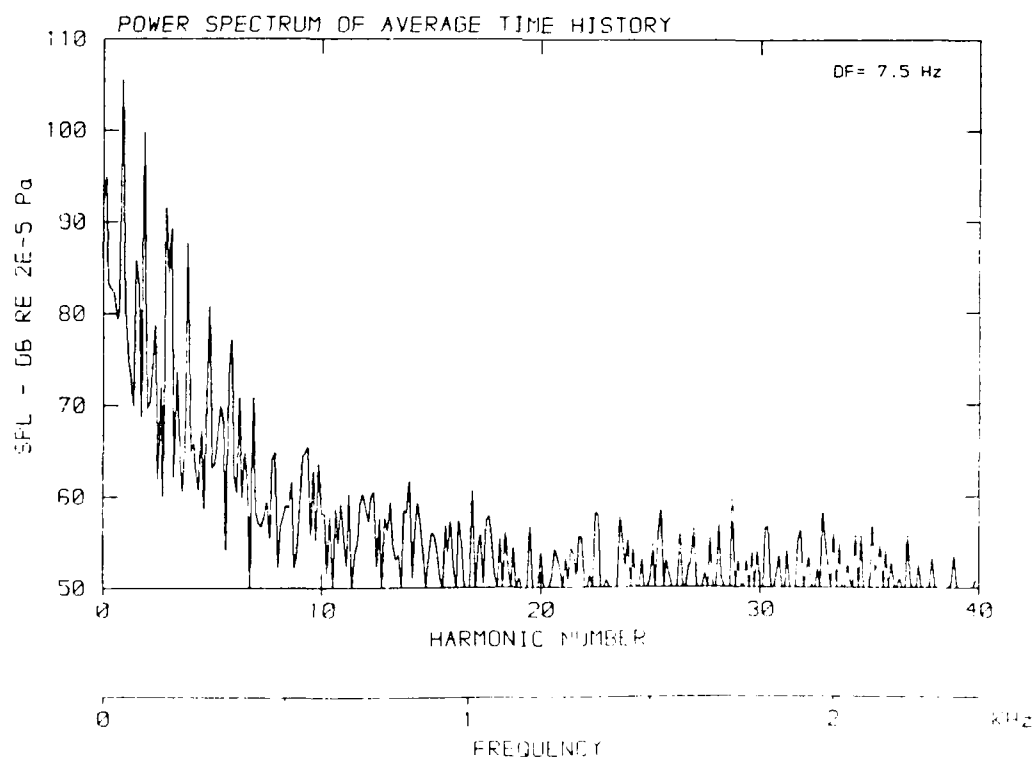
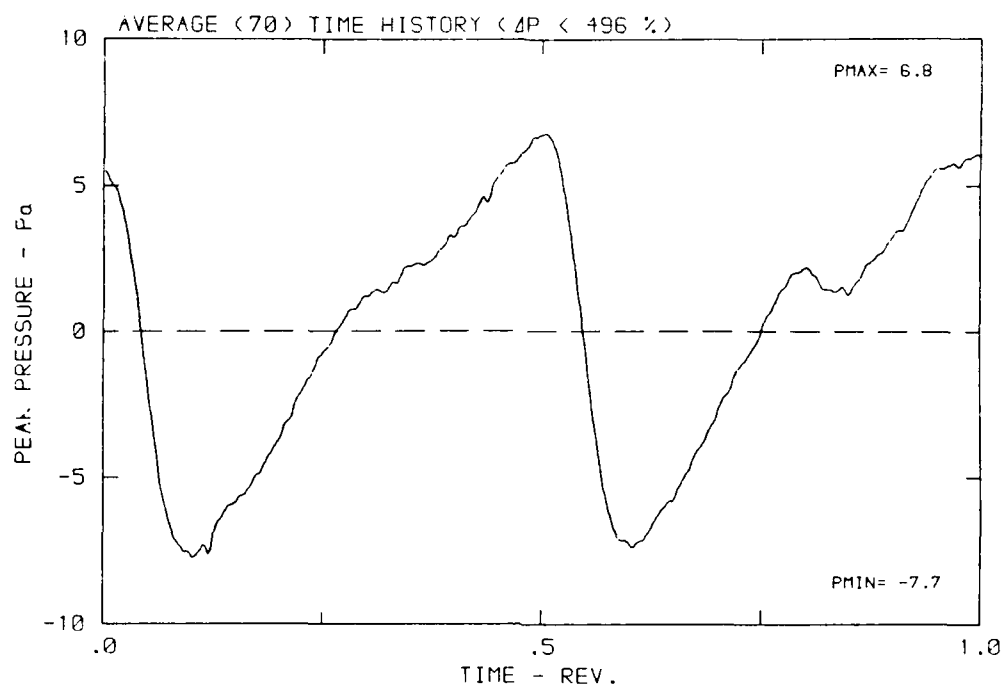
DATA POINT: CC-3 RUN: 119 MP: 3

β : 24.4° MH: .5925 n: 1900 rpm v/u : .267 ϕ : .0° T: 288.1 K



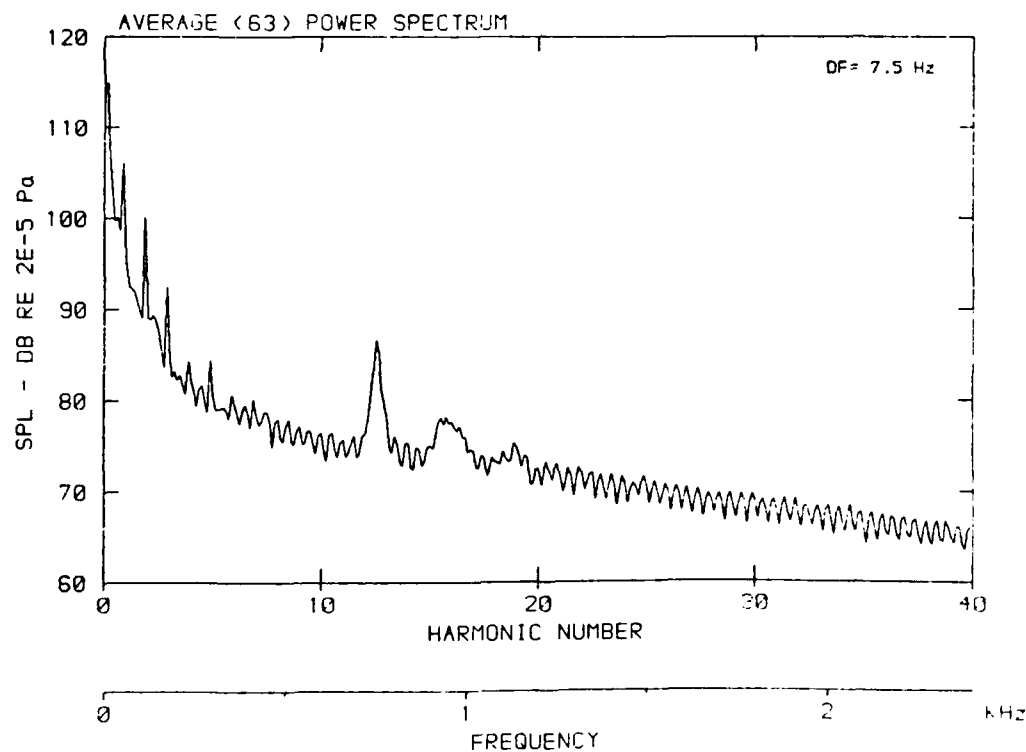
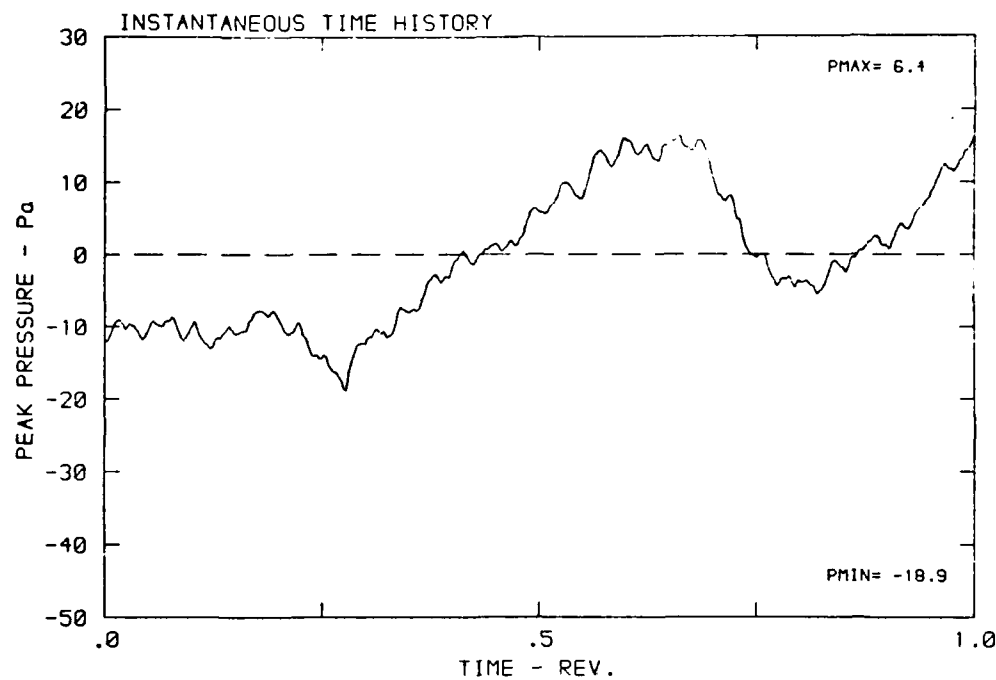
DATA POINT: CC-3 RUN: 119 MP: 8

β : 24.4° MH: .5825 n: 1800 rpm v/u : .267 ϕ : .0° T: 288.1 K



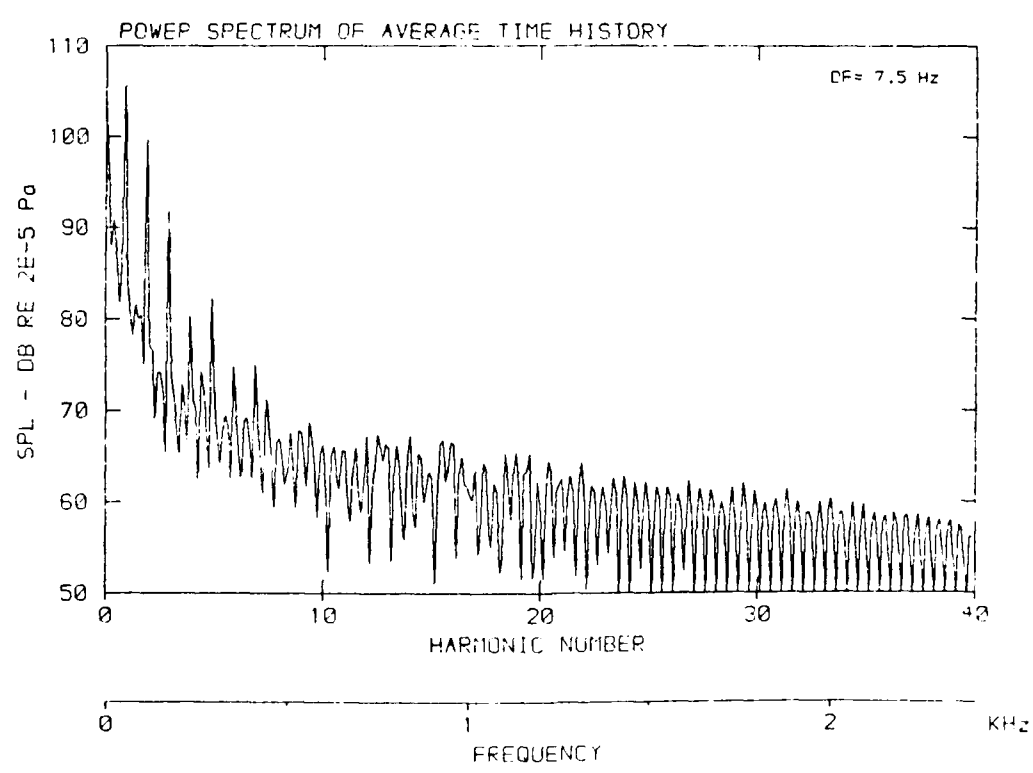
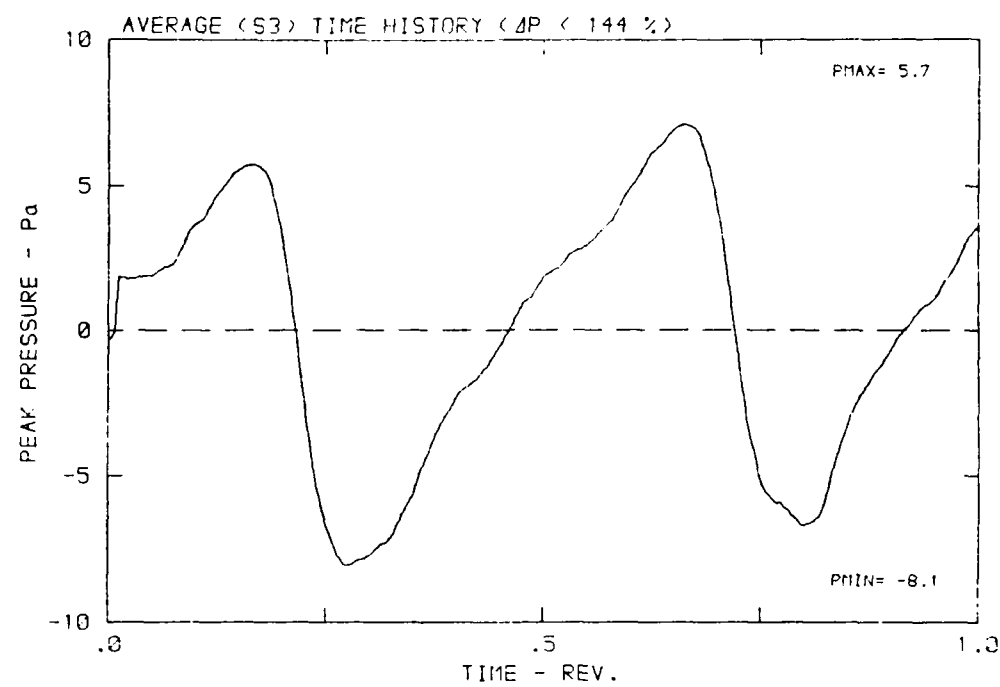
DATA POINT: CC-3 RUN: 119 MP: 9

β : 24.4° MH: .5825 n : 1800 rpm v/u : .267 ϕ : .0° T: 288.1 K



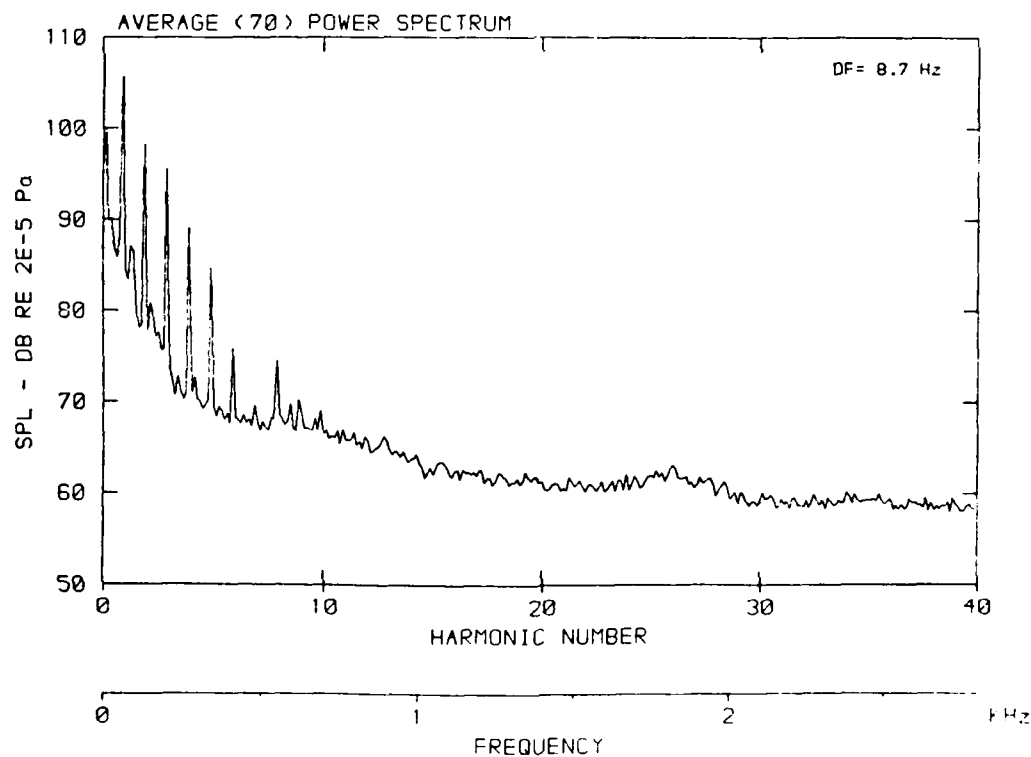
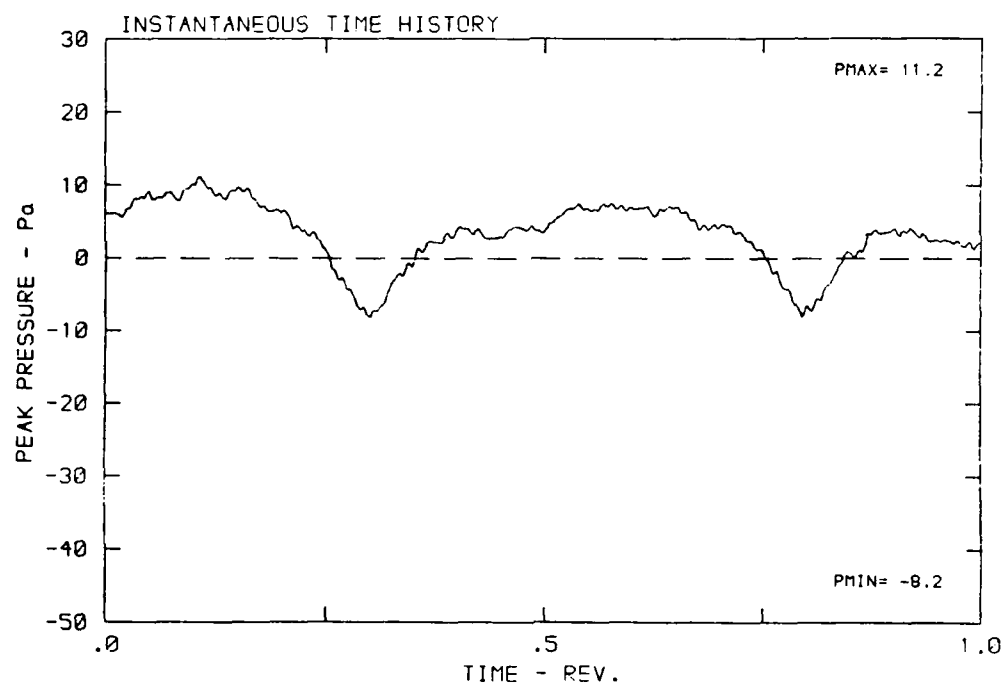
DATA POINT: CC-3 RUN: 119 MP: 9

β : 24.4° MH: .5825 n: 1800 rpm v/u: .267 ϕ : .0° T: 288.1 K



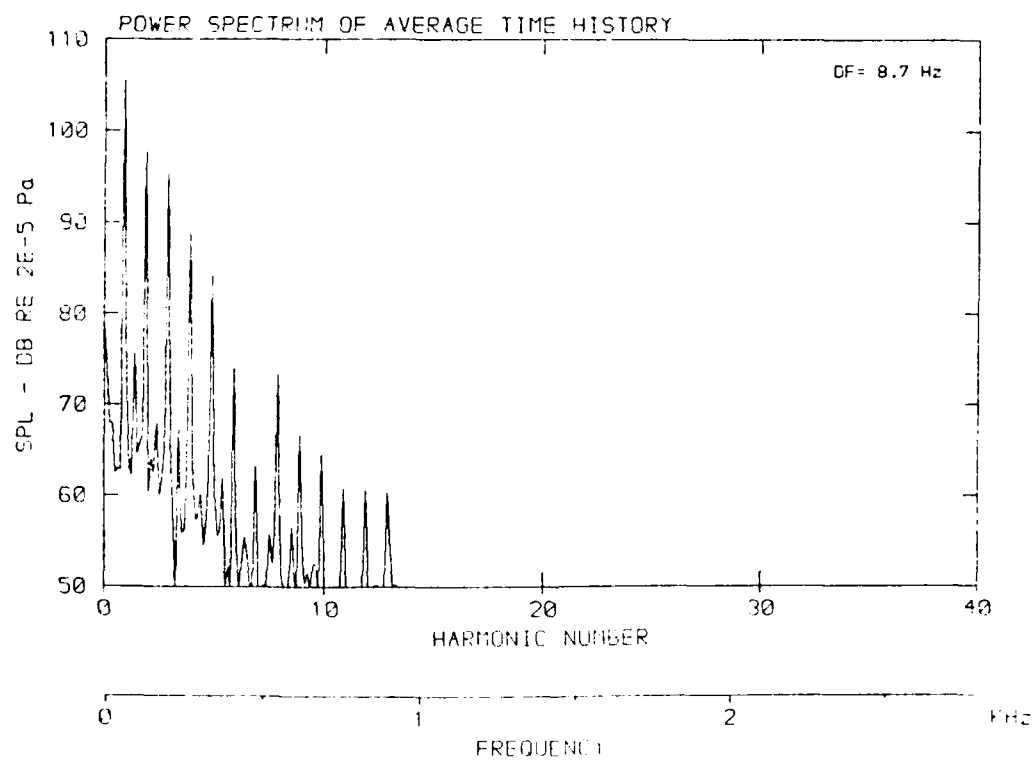
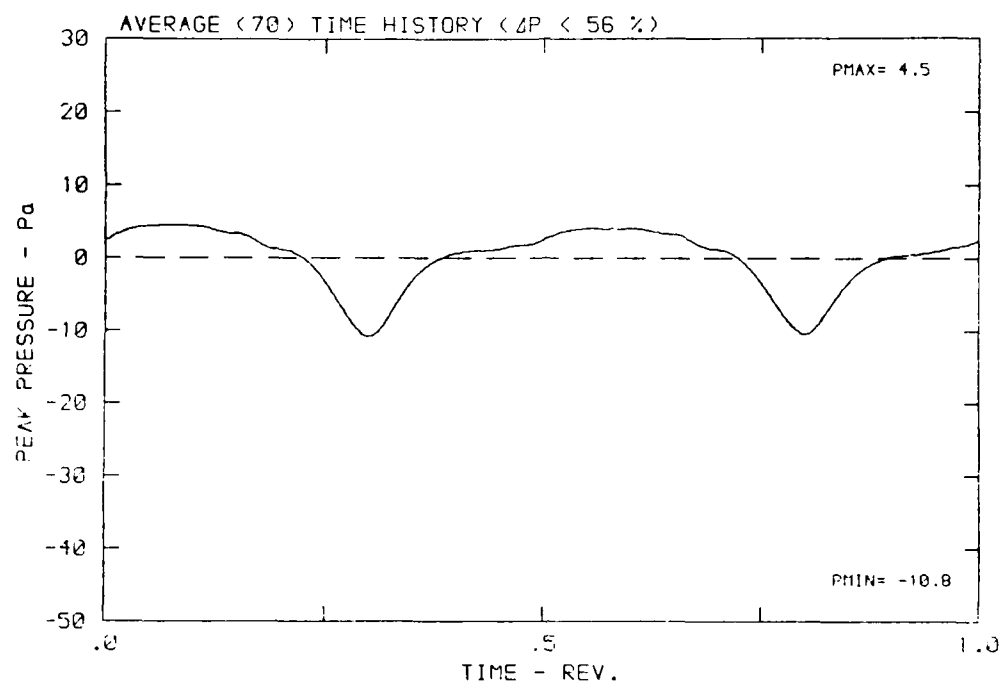
DATA POINT: CC-4 RUN: 120 MP: 1

β : 24.4° MH: .6734 n: 2100 rpm v/u: .231 ϕ : .0° T: 288.4 K



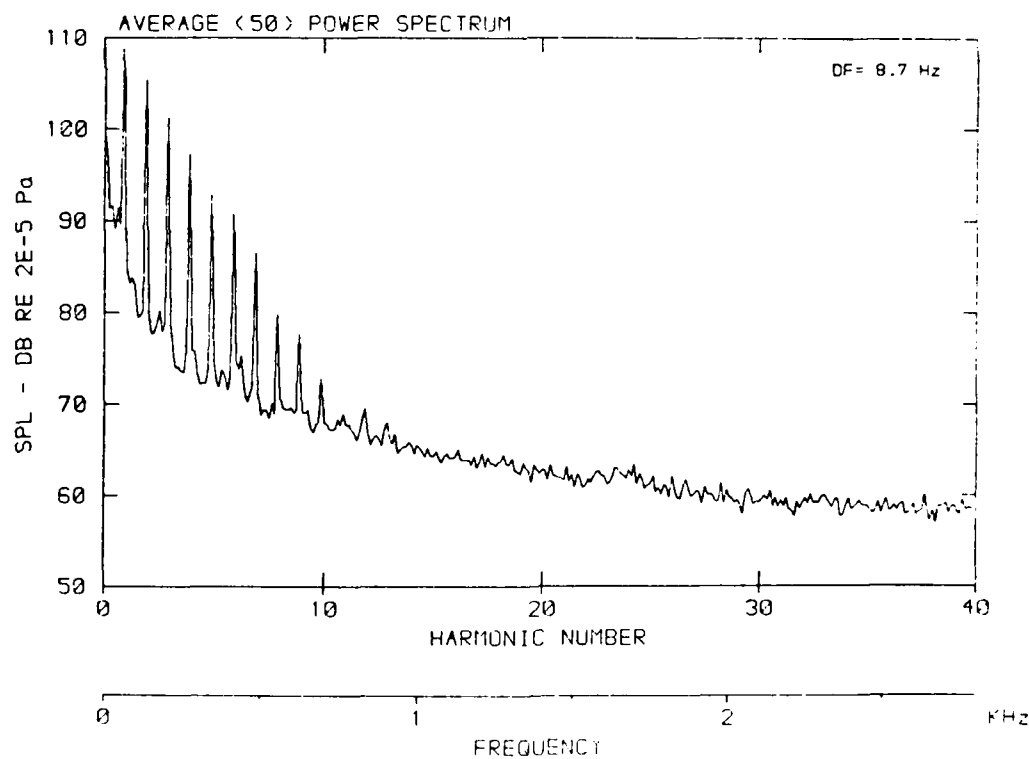
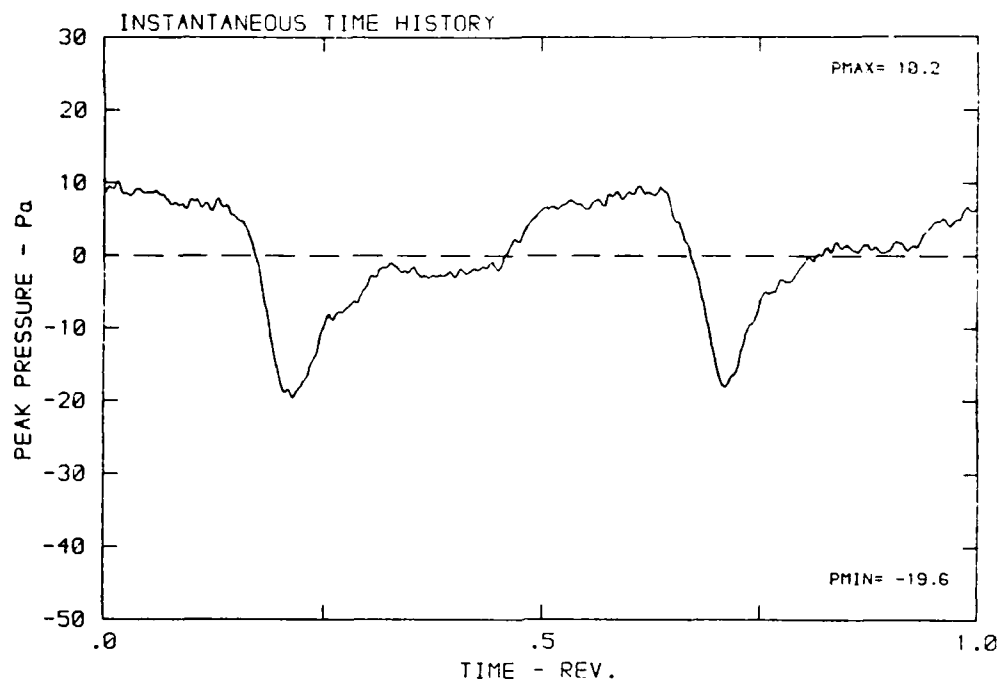
DATA POINT: CC-4 RUN: 120 MP: 1

β : 24.4° MH: .6734 n: 2100 rpm v/u : .231 ϕ : .0° T: 288.4 K



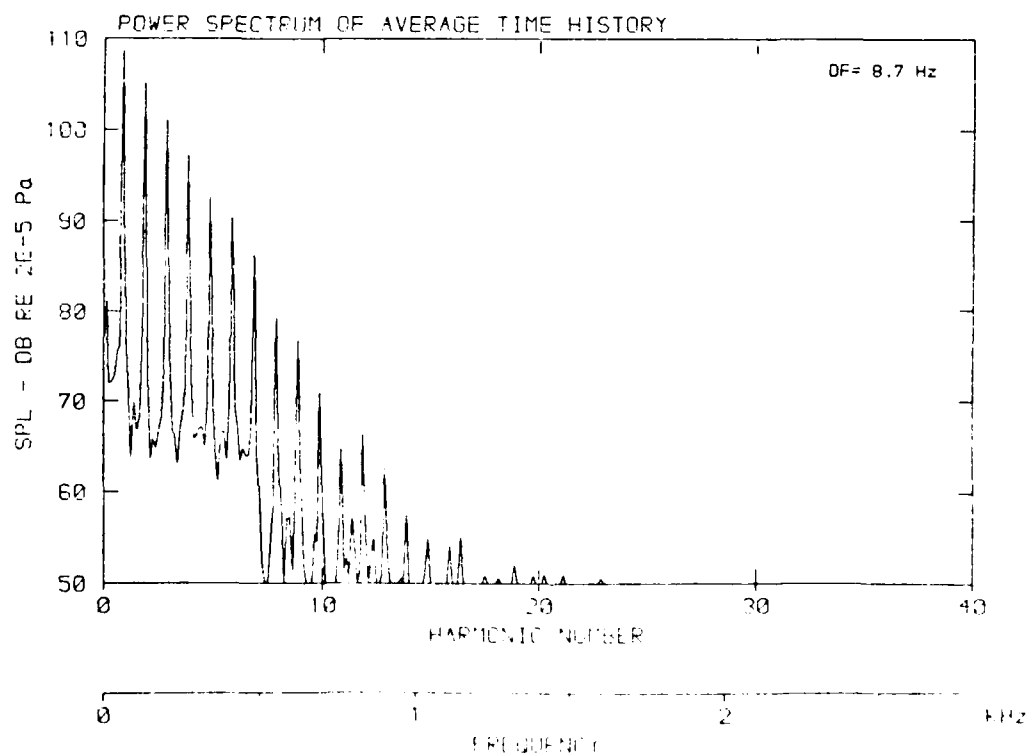
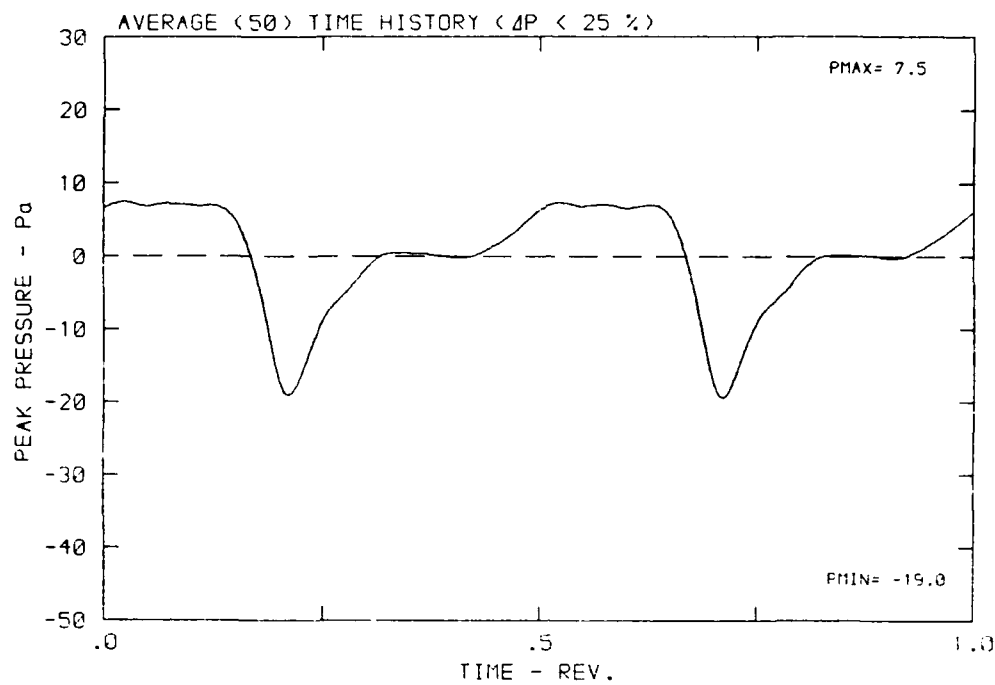
DATA POINT: CC-4 RUN: 120 MP: 2

β : 24.4° MH: .6734 n: 2100 rpm v/u : .231 ϕ : .0° T: 288.4 K



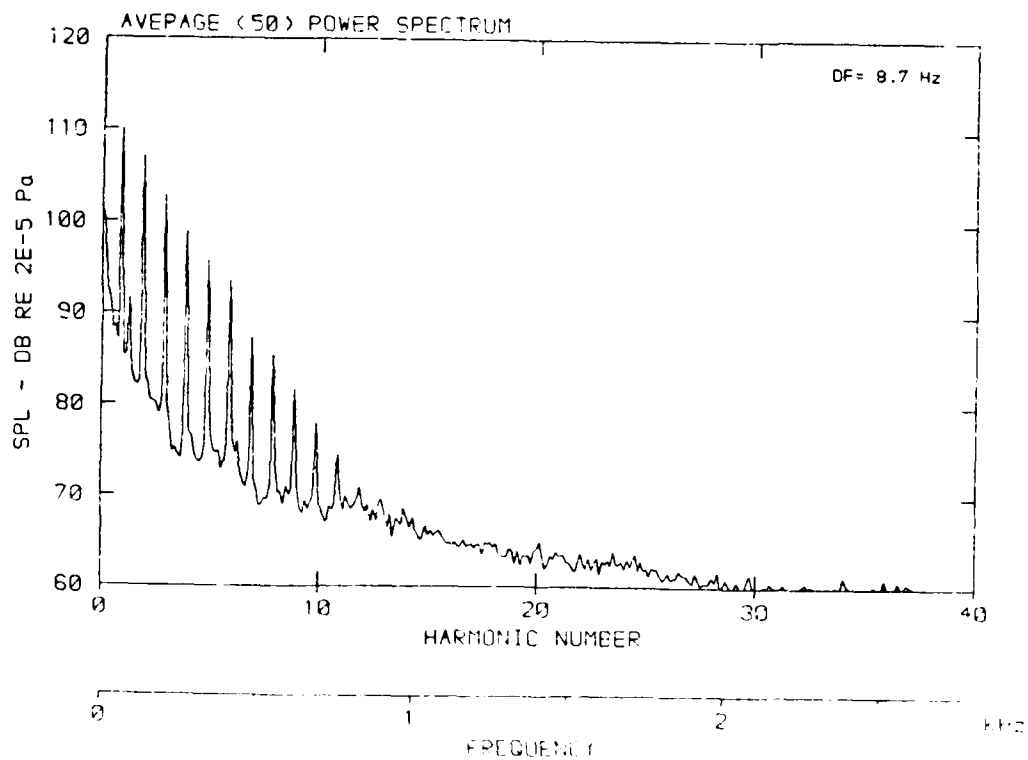
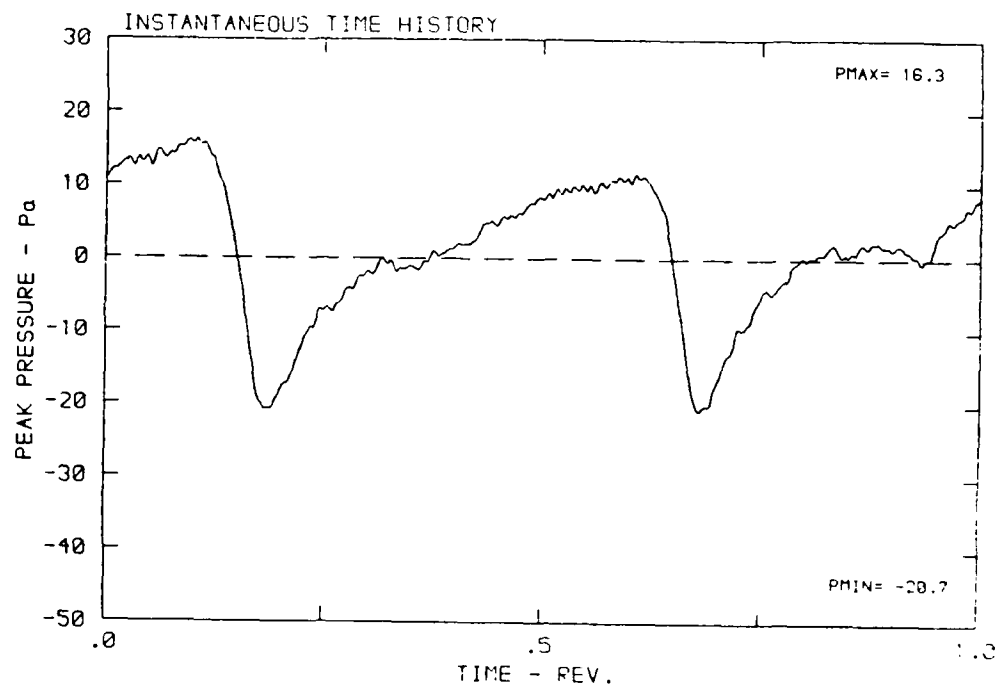
DATA POINT: CC-4 RUN: 120 MP: 2

β : 24.4° MH: .6734 n: 2100 rpm v/u: .231 ϕ : .0° T: 288.4 K



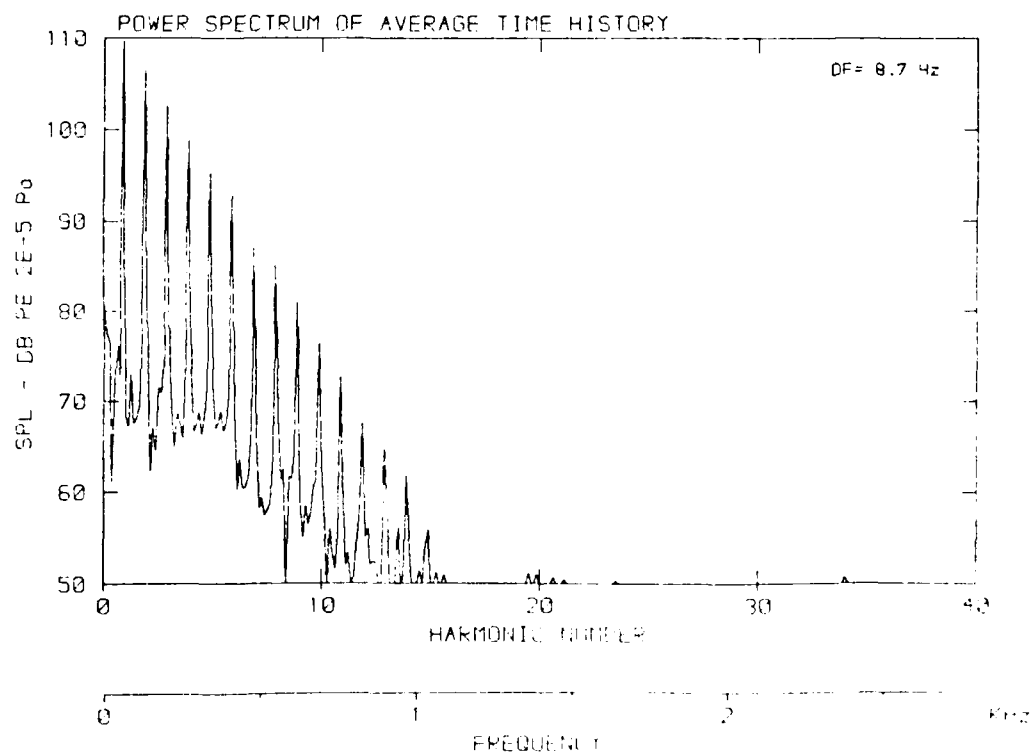
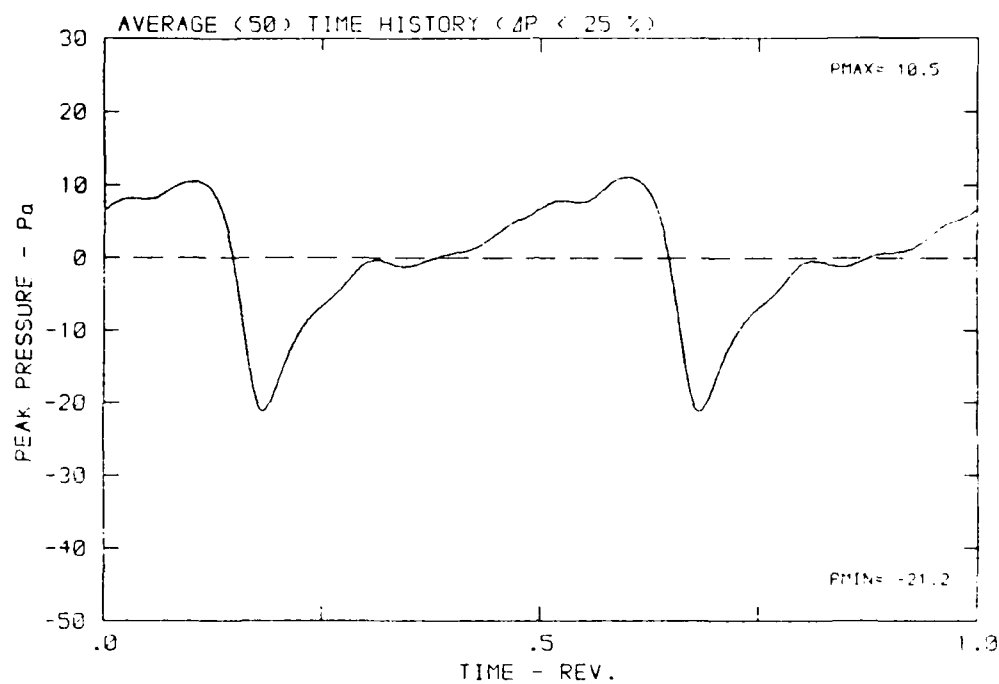
DATA POINT: CC-4 RUN: 120 MP: 3

β : 24.4° MH: .6734 n: 2100 rpm v/u : .231 ϕ : .0° T: 286.4 K



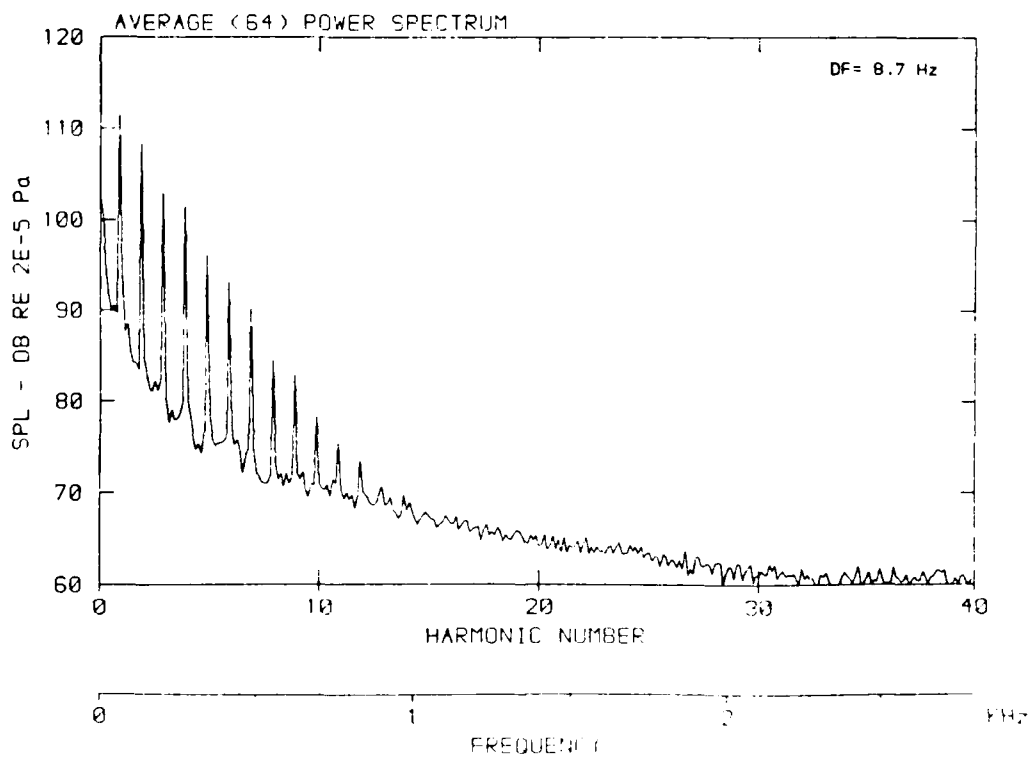
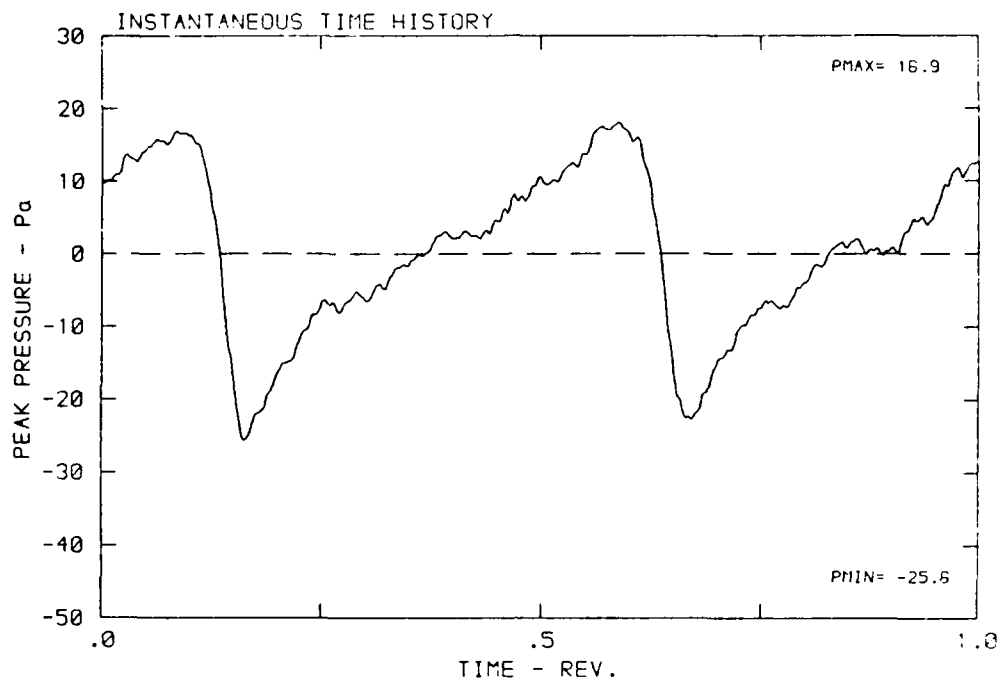
DATA POINT: CC-4 RUN: 120 MP: 3

β : 24.4° MH: .6734 n: 2100 rpm v/u : .231 ϕ : $.0^\circ$ T: 288.4 K



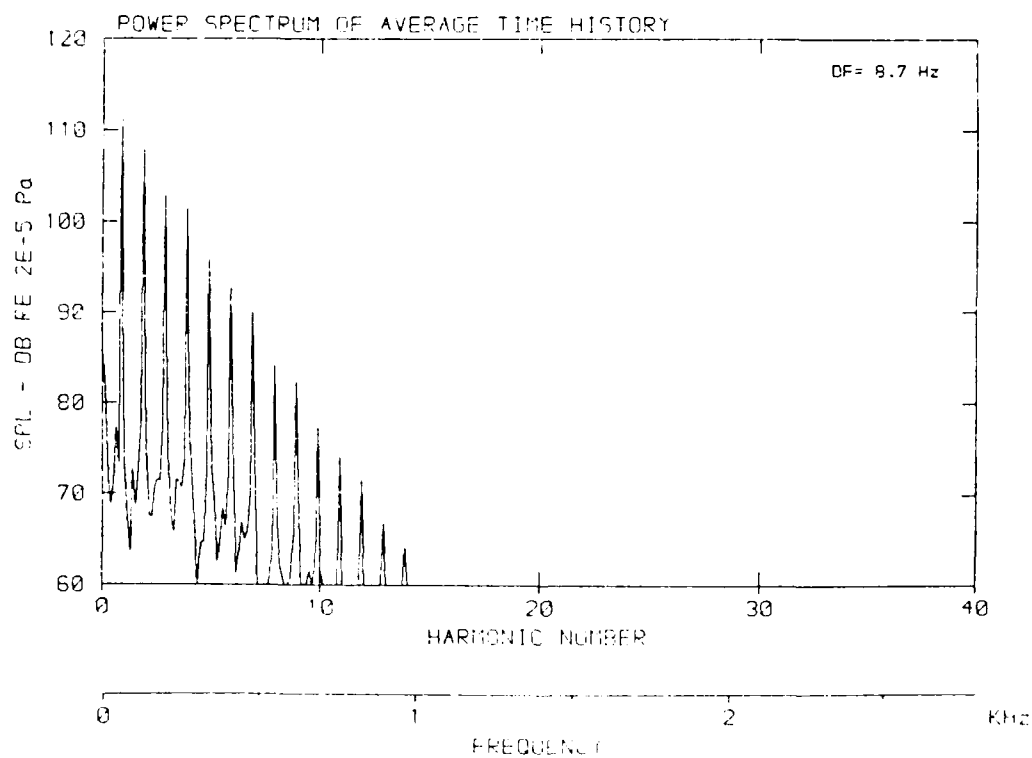
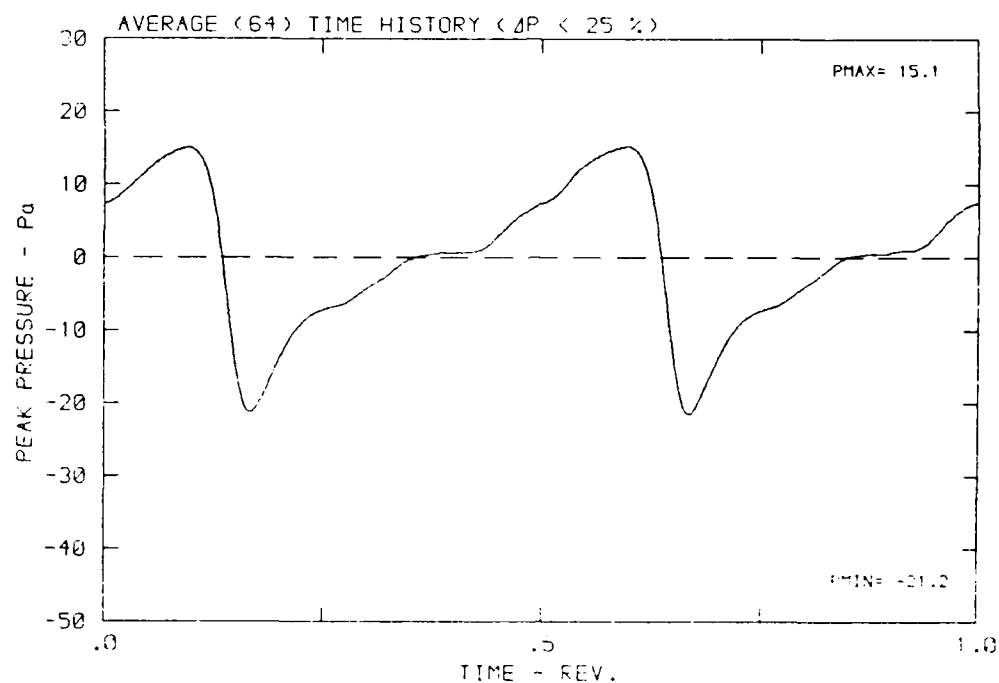
DATA POINT: CC-4 RUN: 120 MP: 4

β : 24.4° MH: .6734 n: 2100 rpm vru: .231 ϕ : .0° T: 235.4 N



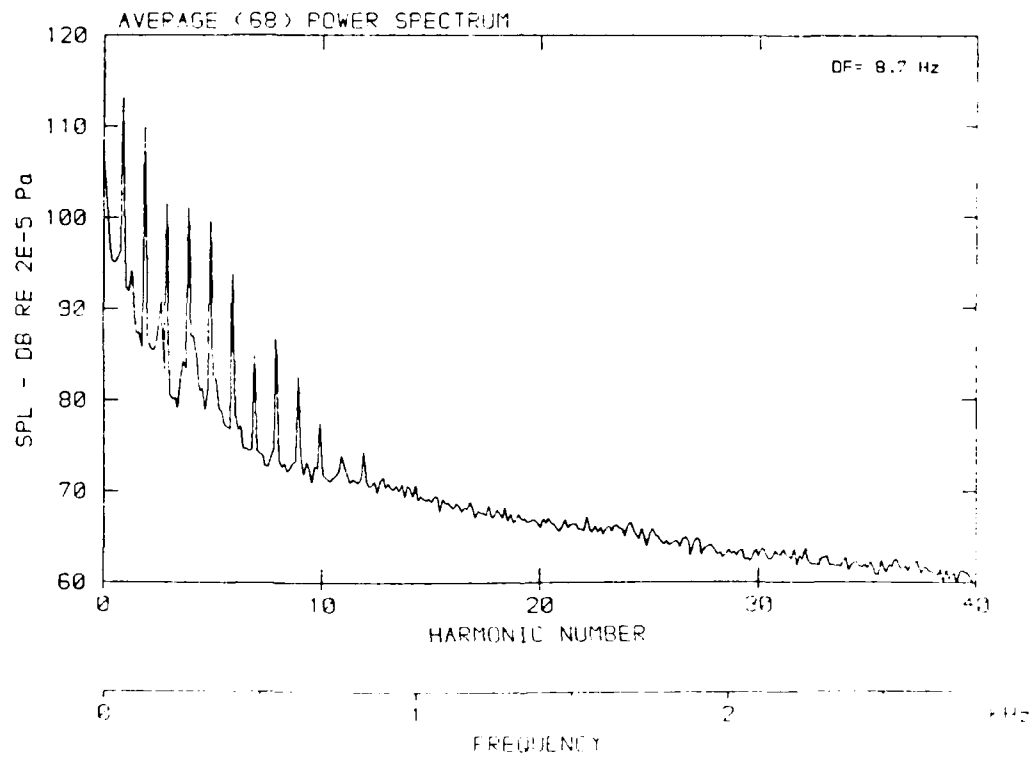
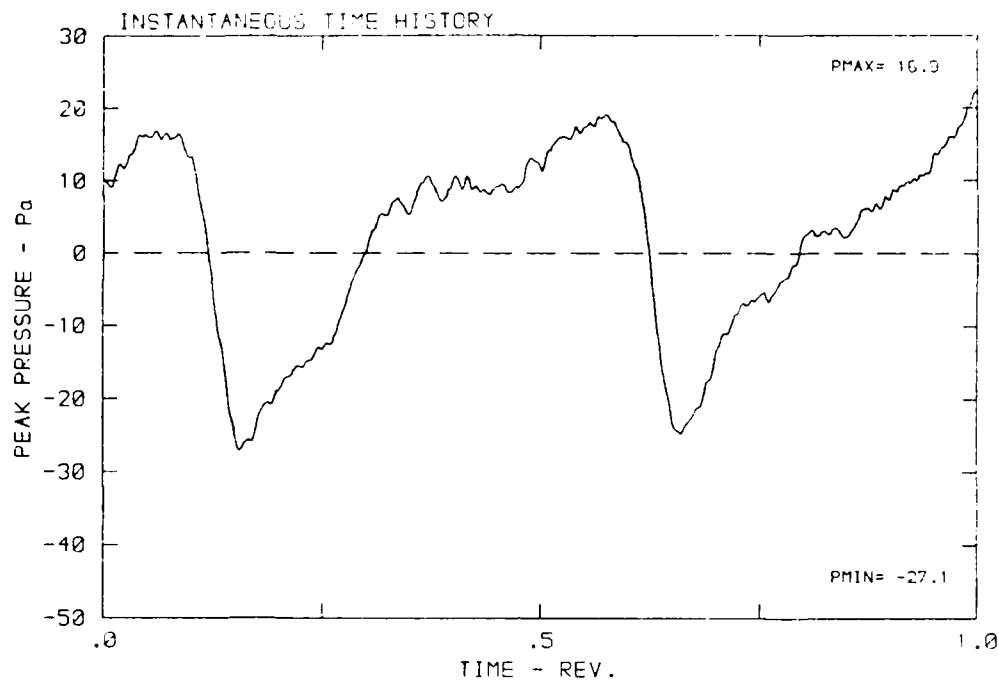
DATA POINT: CC-4 RUN: 120 MP: 4

β : 24.4° MH: .6734 n: 2100 rpm v/u : .231 ϕ : .0° T: 288.4 K



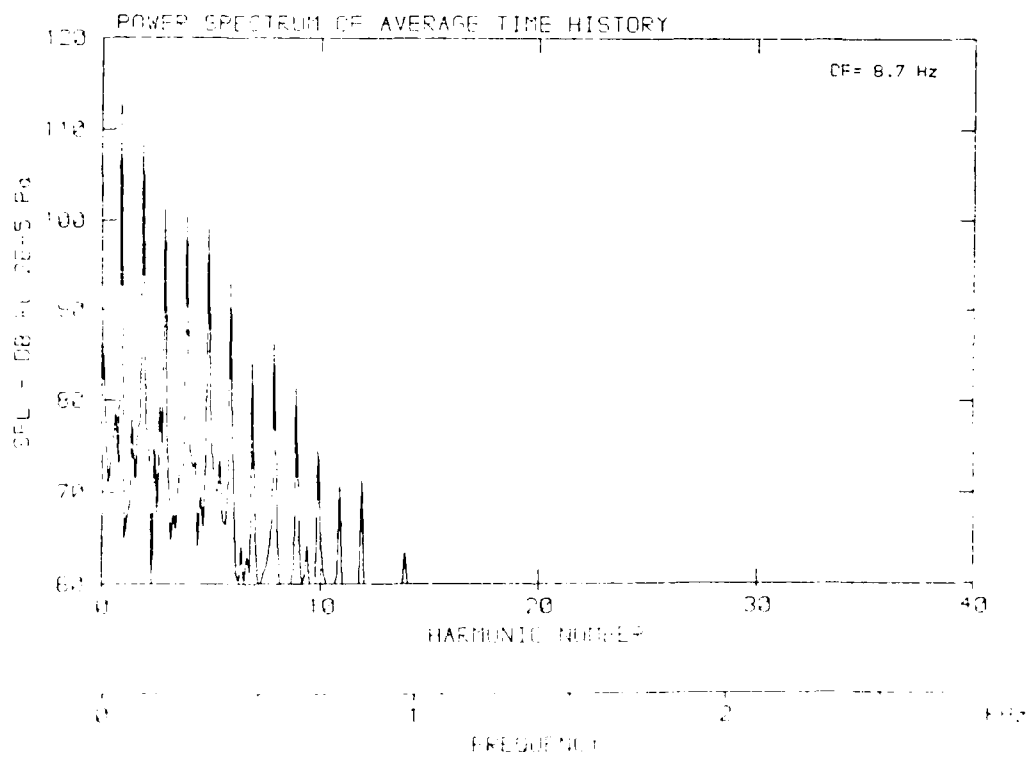
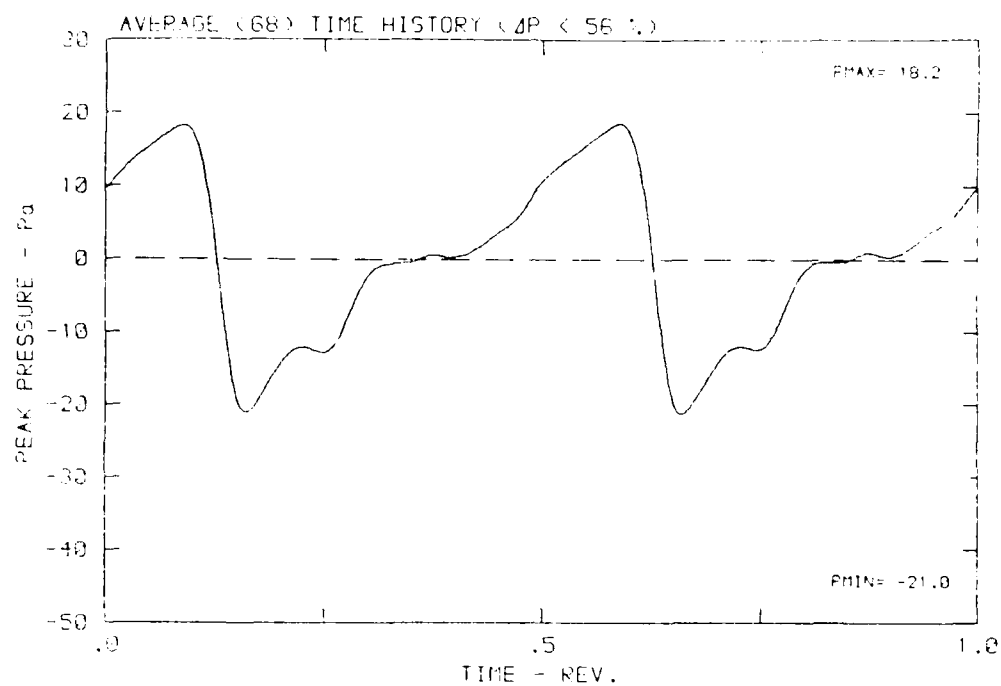
DATA POINT: CC-4 PUN: 120 MP: 5

β : 24.4° MH: .9734 n: 2100 rpm vru: .231 ϕ : .0° T: 203.4 K



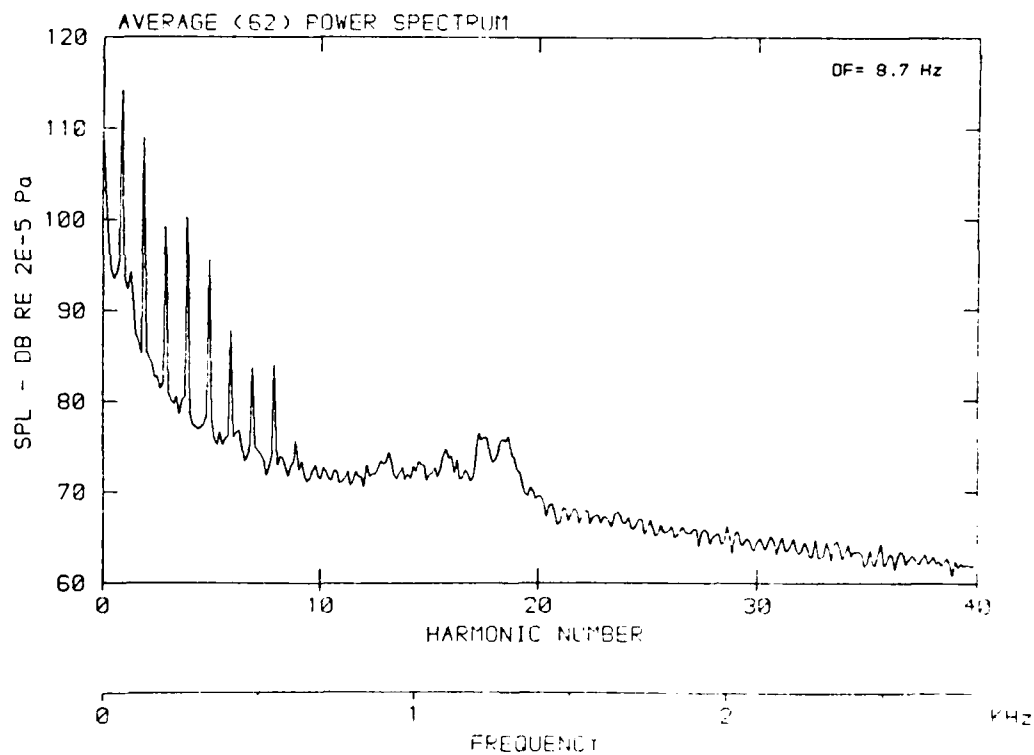
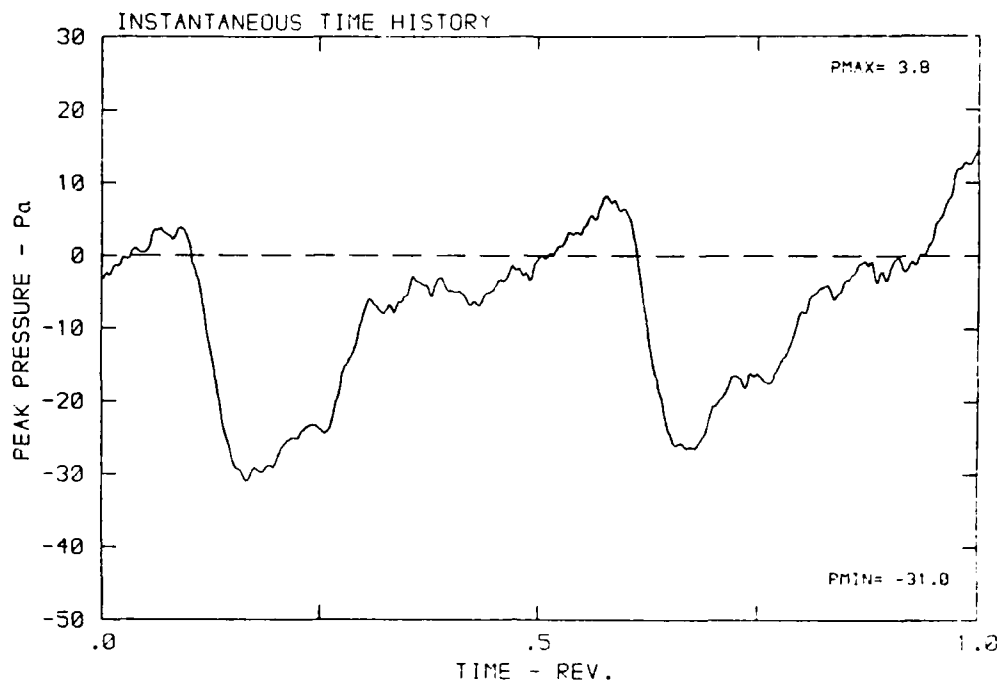
DATA POINT: CC-4 RUN: 120 MP: 5

β : 24.4° MH: .6734 n: 2100 rpm v/u : .231 ϕ : $.0^\circ$ T: 288.4 K



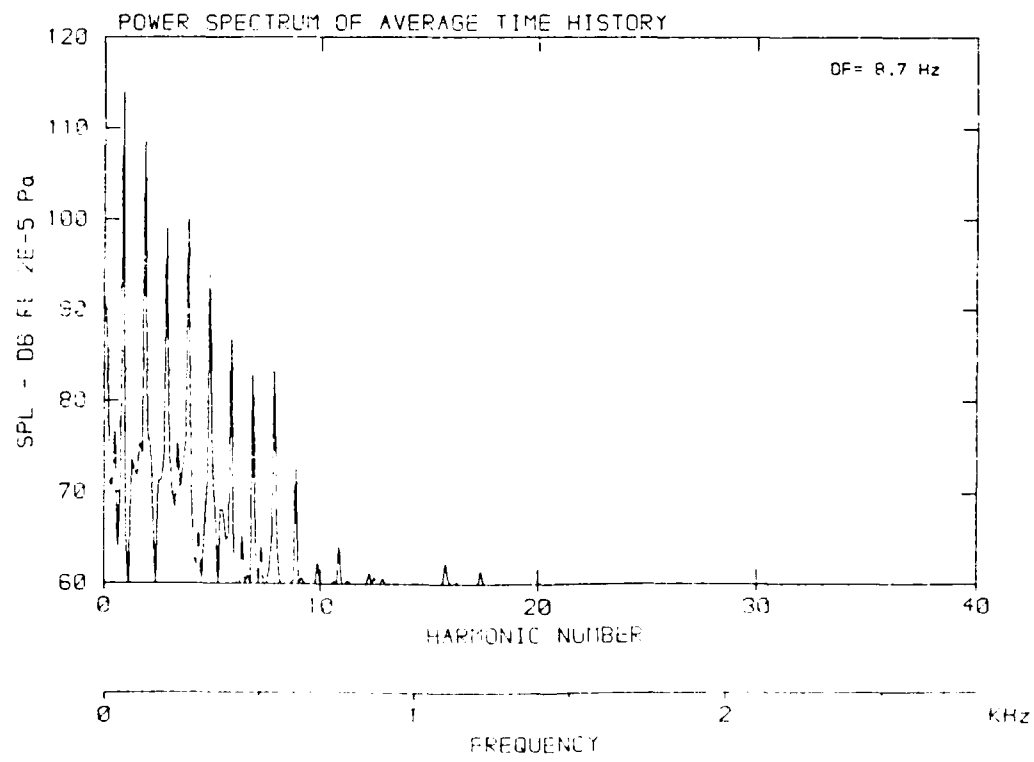
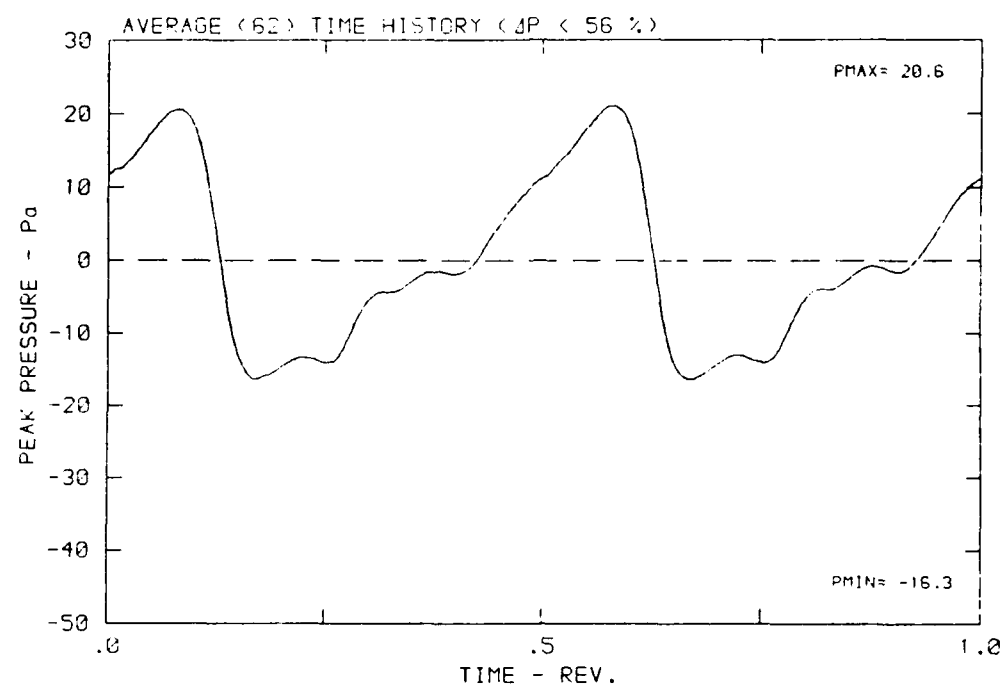
DATA POINT: CC-4 RUN: 120 MP: 6

β : 24.4° MH: .6734 n: 2100 rpm v/u: .231 ϕ : .0° T: 288.4 K



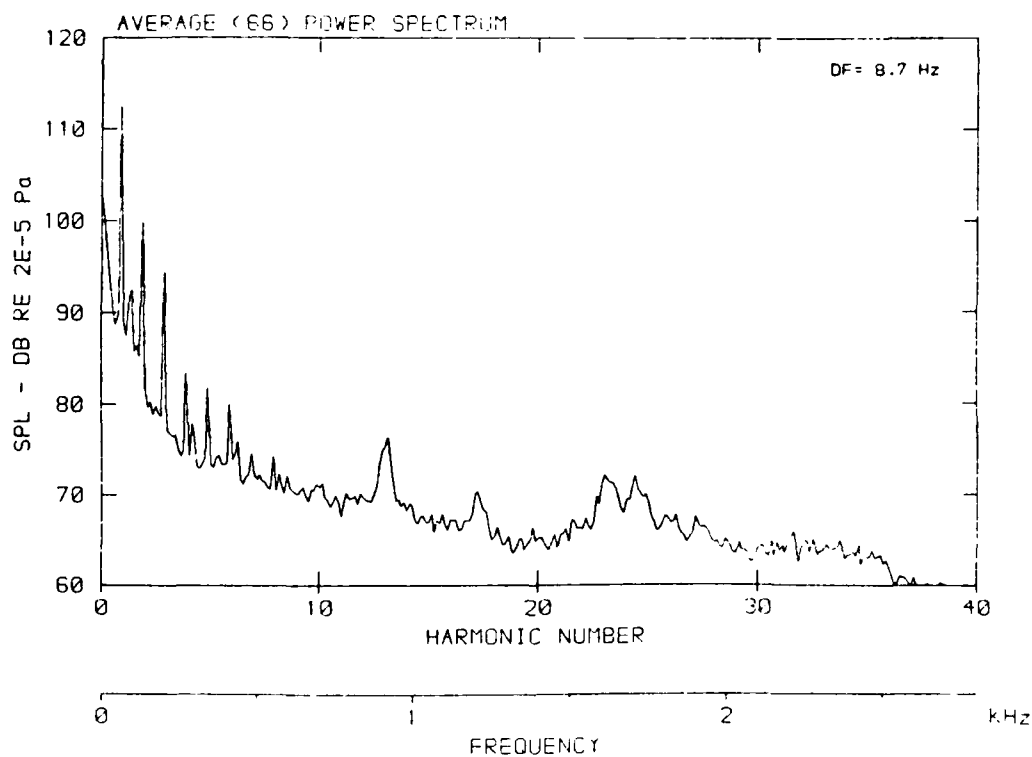
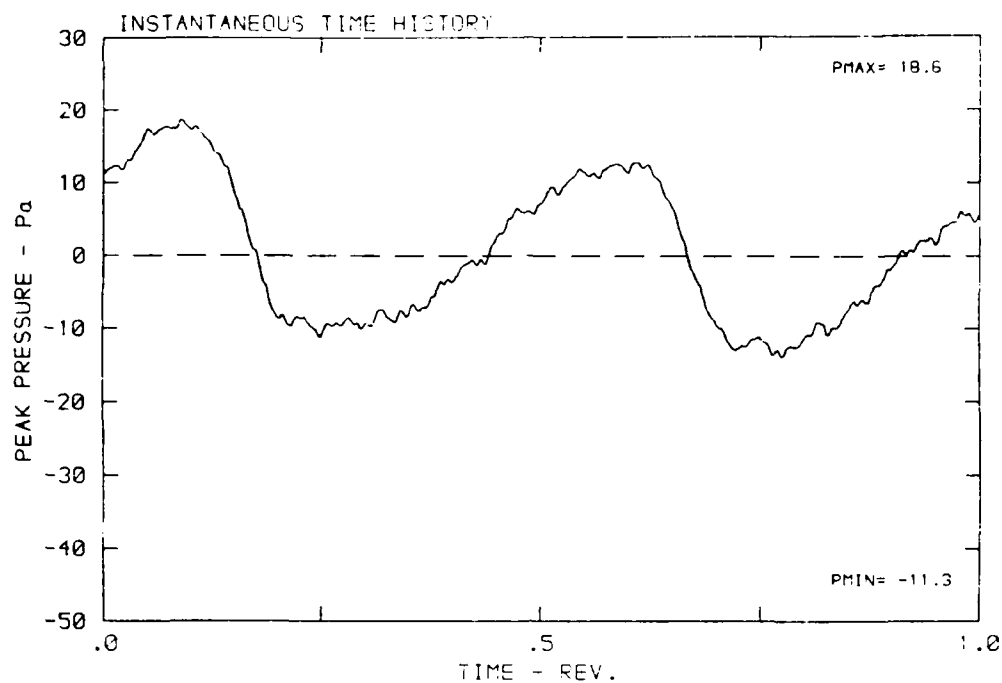
DATA POINT: CC-4 RUN: 120 MP: 6

β : 24.4° MH: .6734 n: 2100 rpm v/u : .231 ϕ : .0° T: 288.4 K



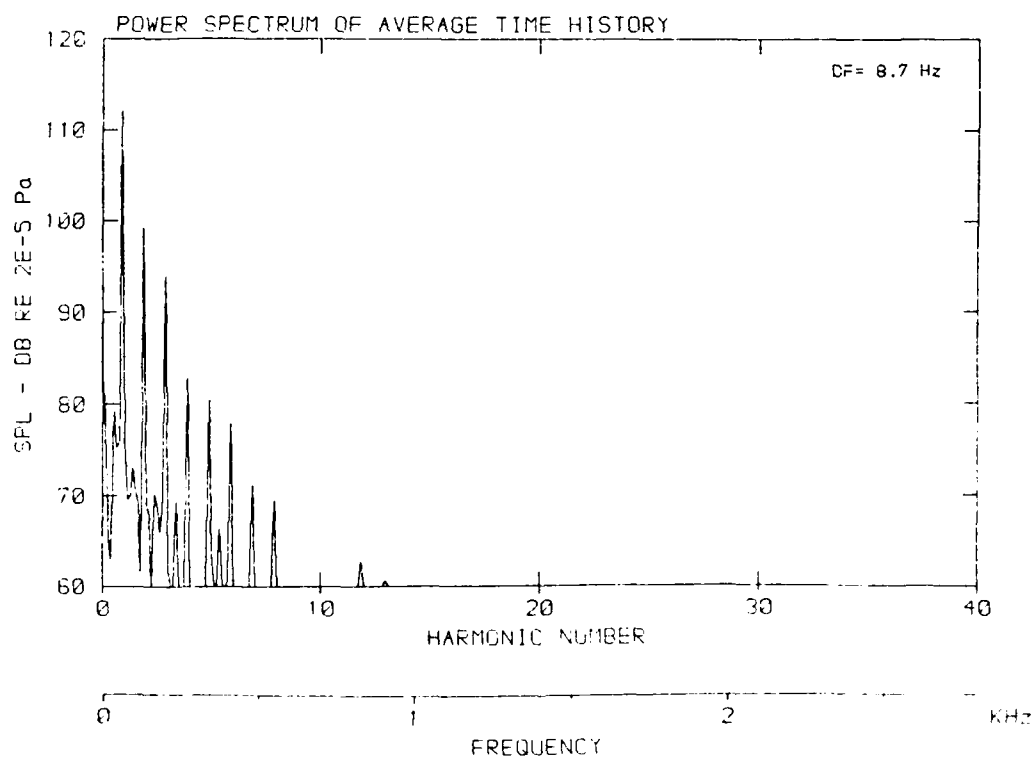
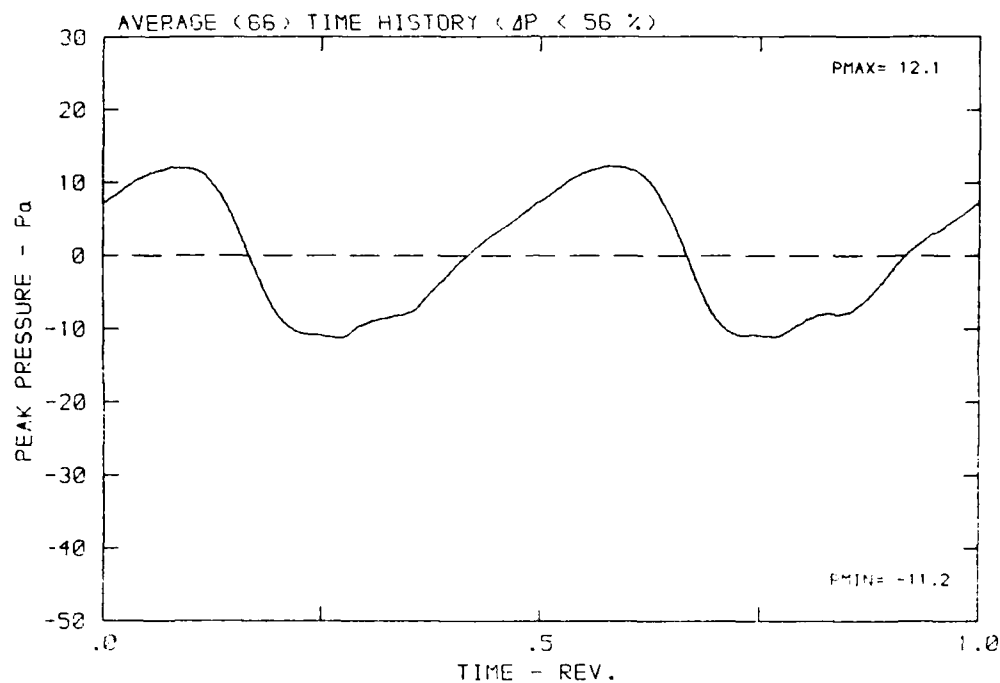
DATA POINT: CC-4 RUN: 120 MF: 7

β : 24.4° MH: .6734 n: 2100 rpm v/u : .231 ϕ : .0° T: 298.4 K



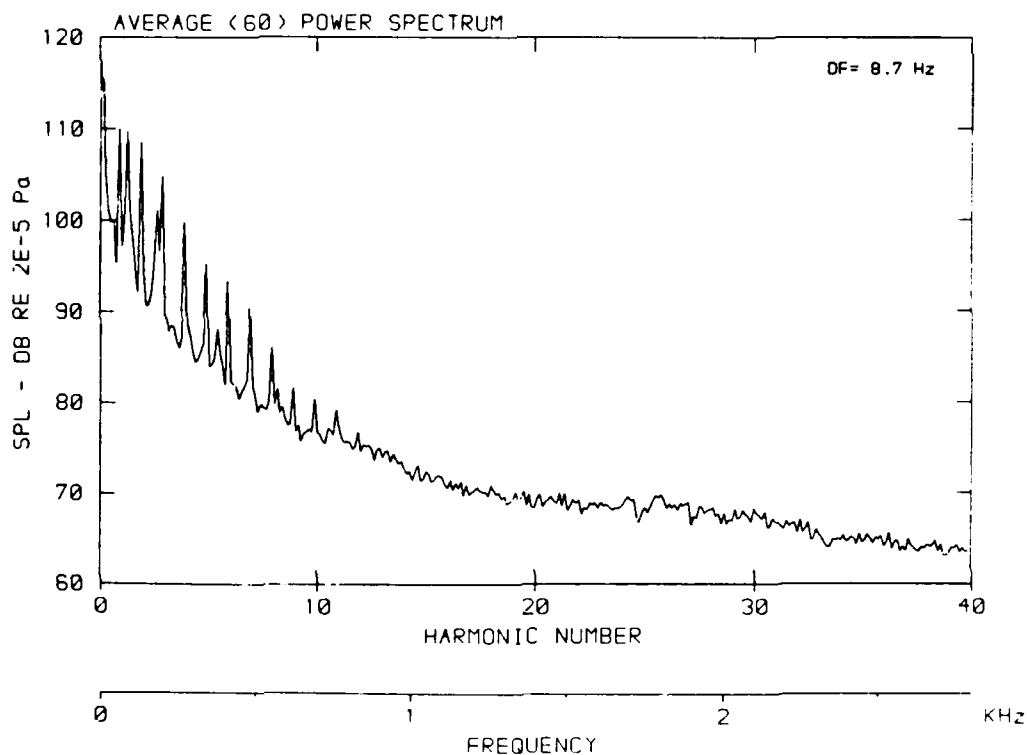
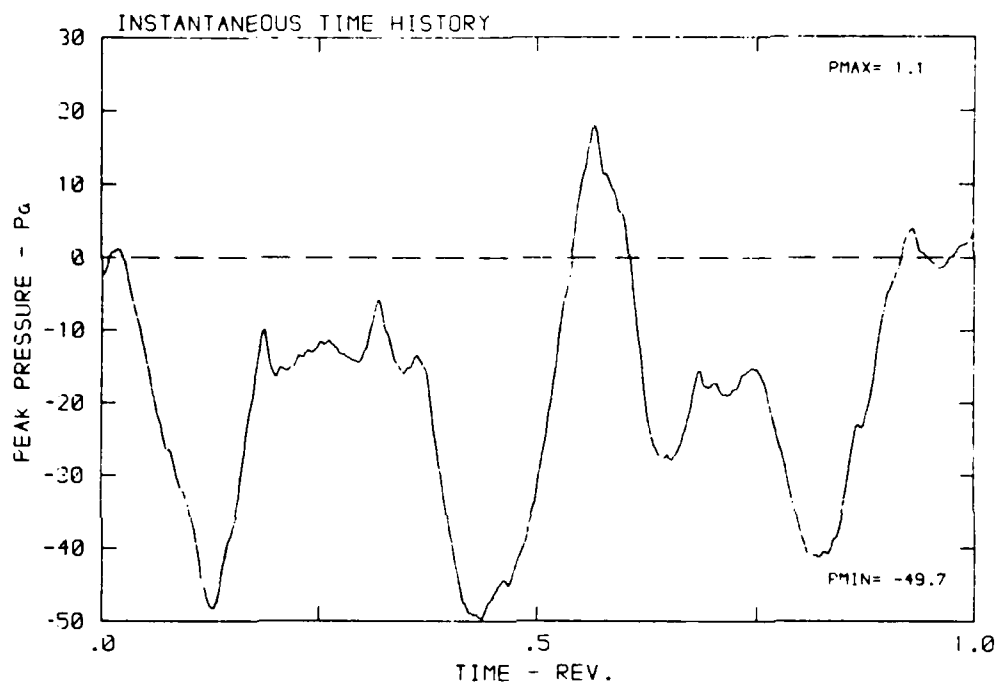
DATA POINT: CC-4 RUN: 120 MP: 7

β : 24.4° MH: .6734 n: 2100 rpm v/u : .231 ϕ : .0° T: 286.4 K



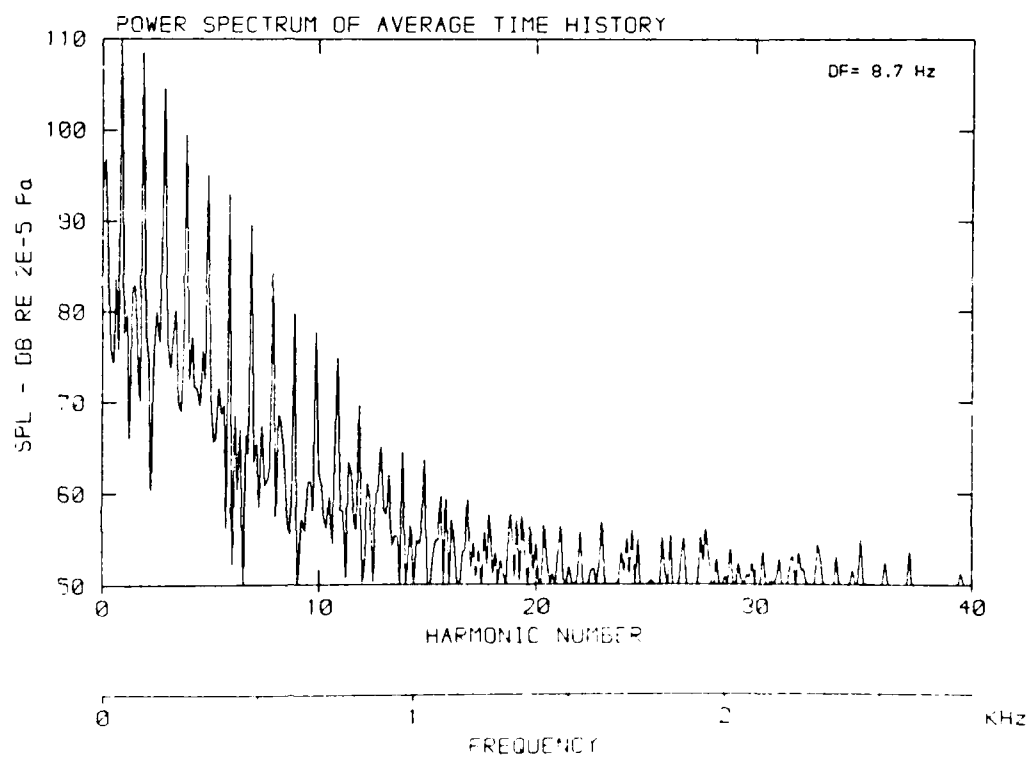
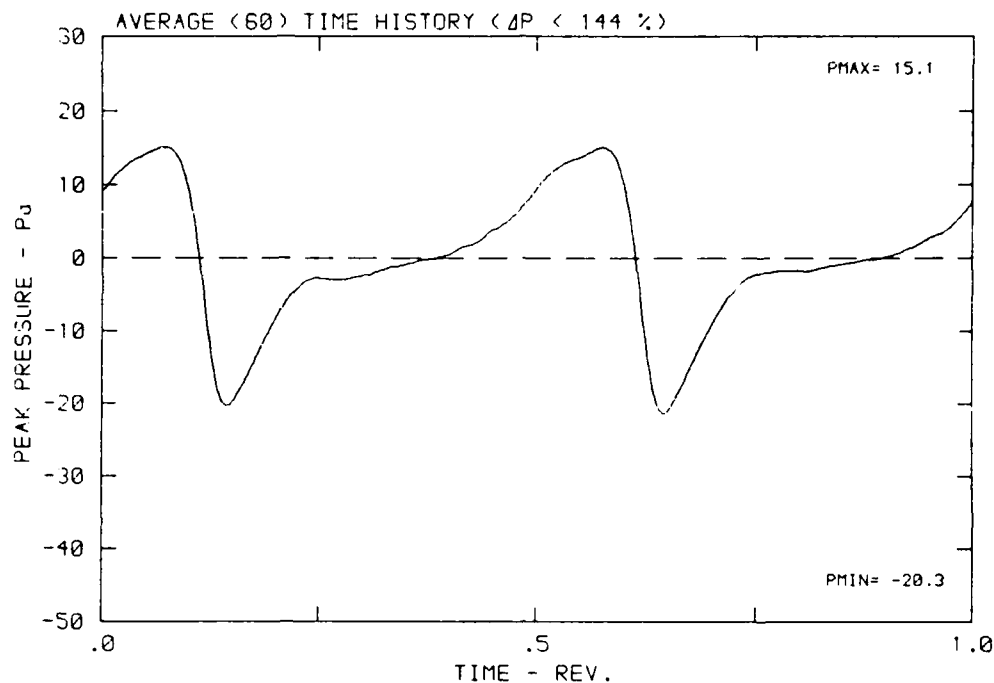
DATA POINT: CC-4 RUN: 120 NP: 8

β : 24.4° MH: .6734 n: 2100 rpm v/u: .231 ϕ : .0° T: 298.4 K



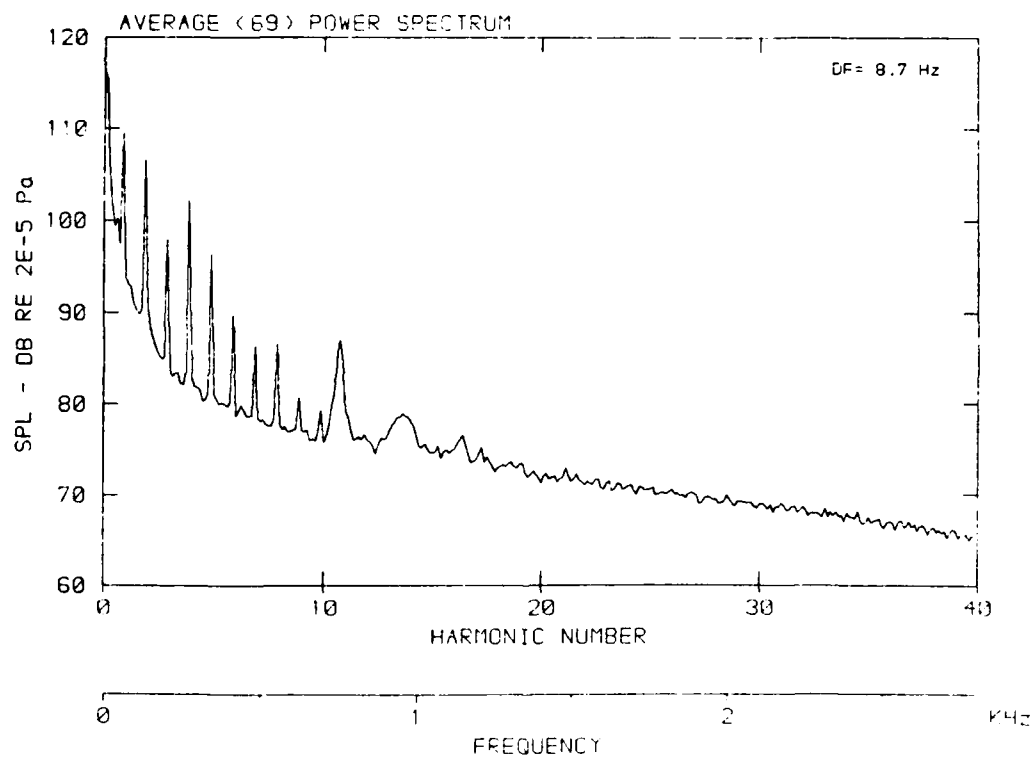
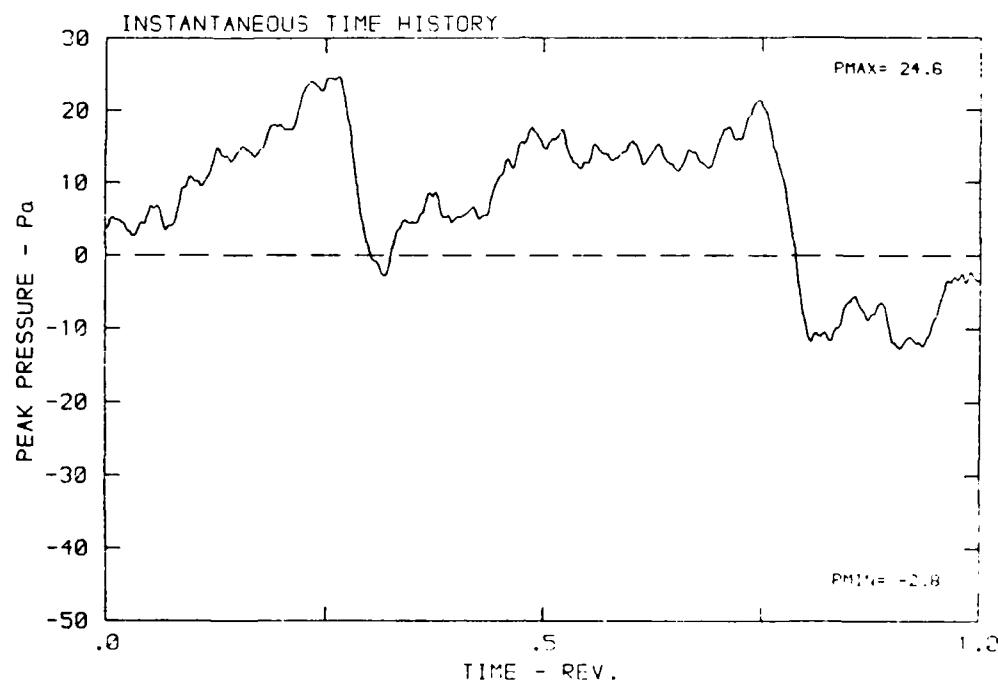
DATA POINT: CC-4 RUN: 120 MP: 8

β : 24.4° MH: .6734 n: 2100 rpm v/u : .231 ϕ : .0° T: 288.4 K



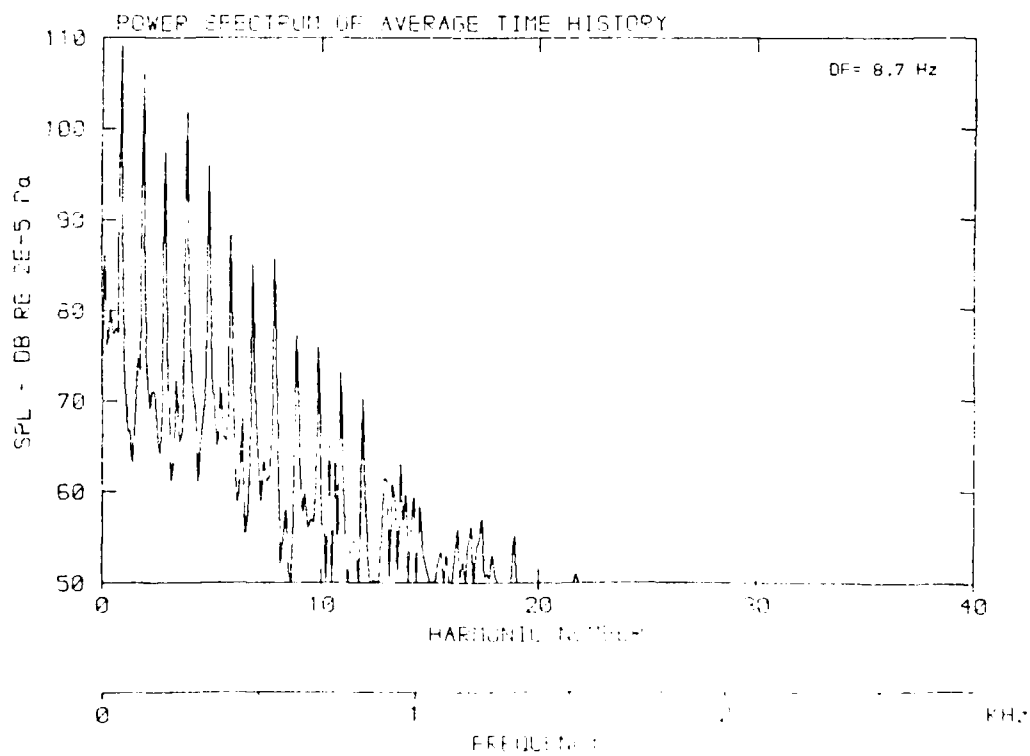
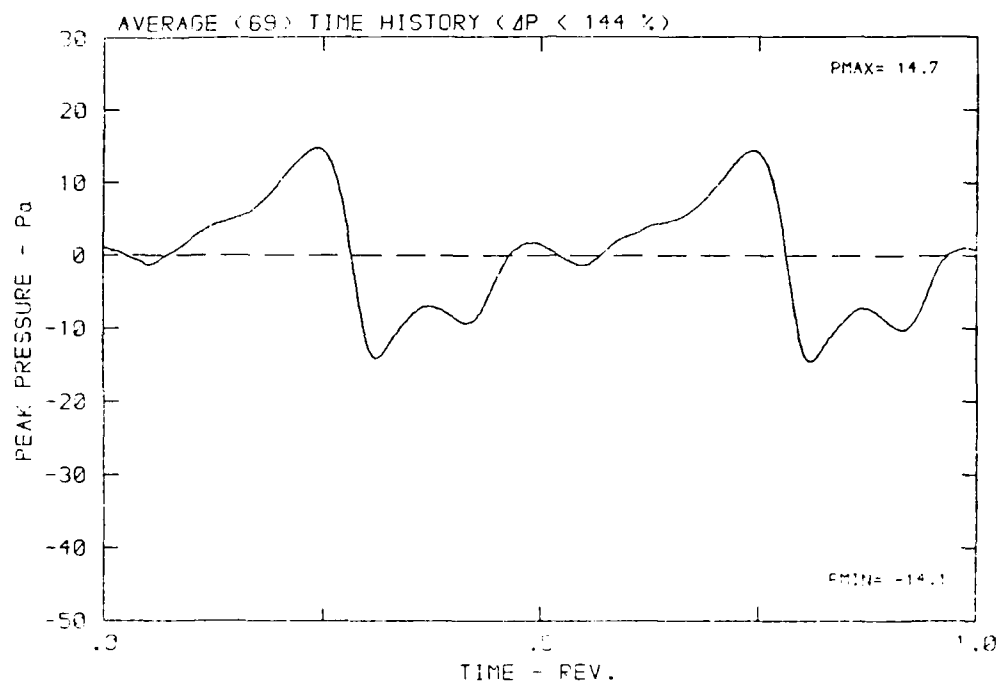
DATA POINT: CC-4 RUN: 120 NP: 9

β : 24.4° MH: .6734 n: 2100 rpm vru: .831 ϕ : .0° T: 238.4 K



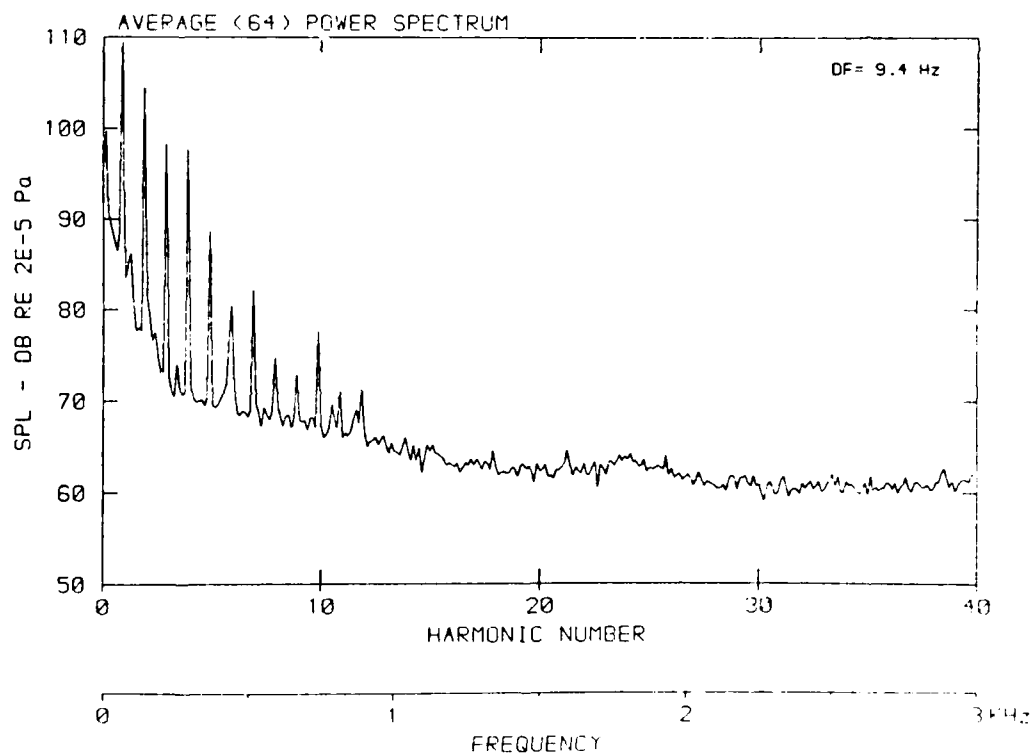
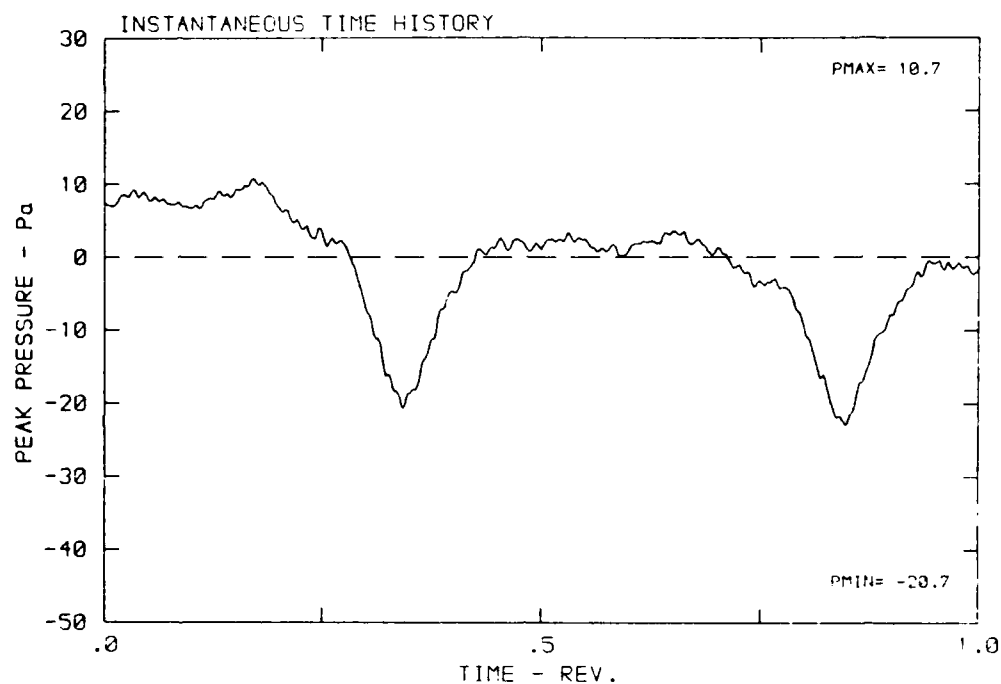
DATA POINT: CC-4 RUN: 120 MP: 9

β : 24.4° MH: .6734 n: 2100 rpm v/u: .231 ϕ : .0° T: 288.4 K



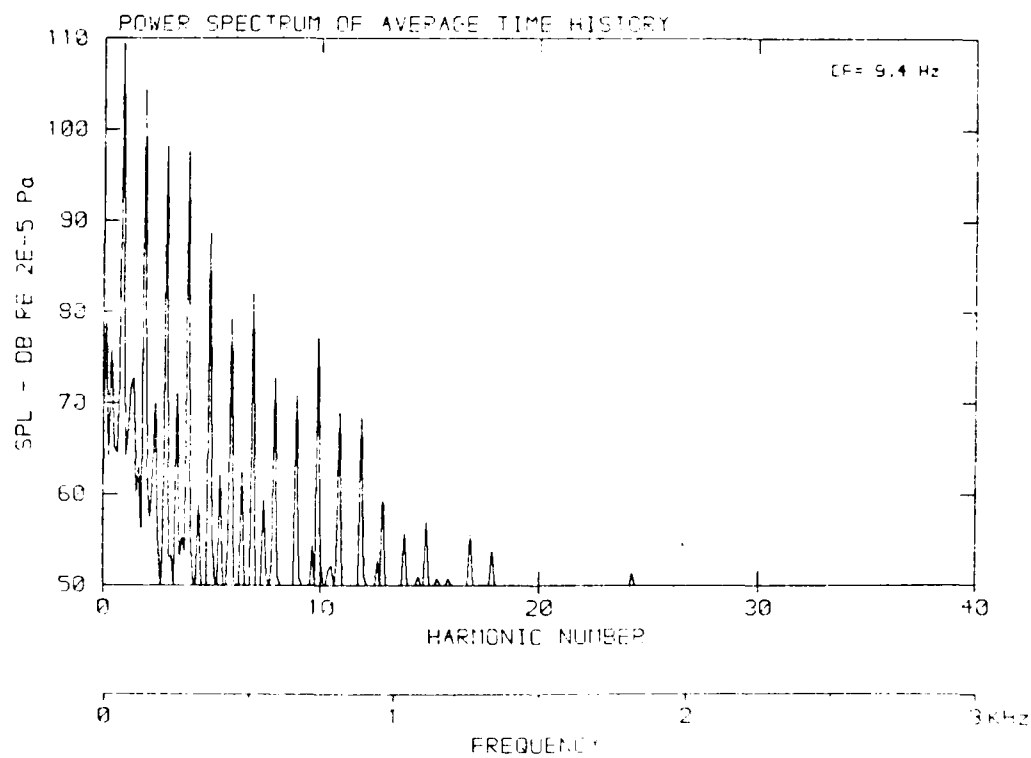
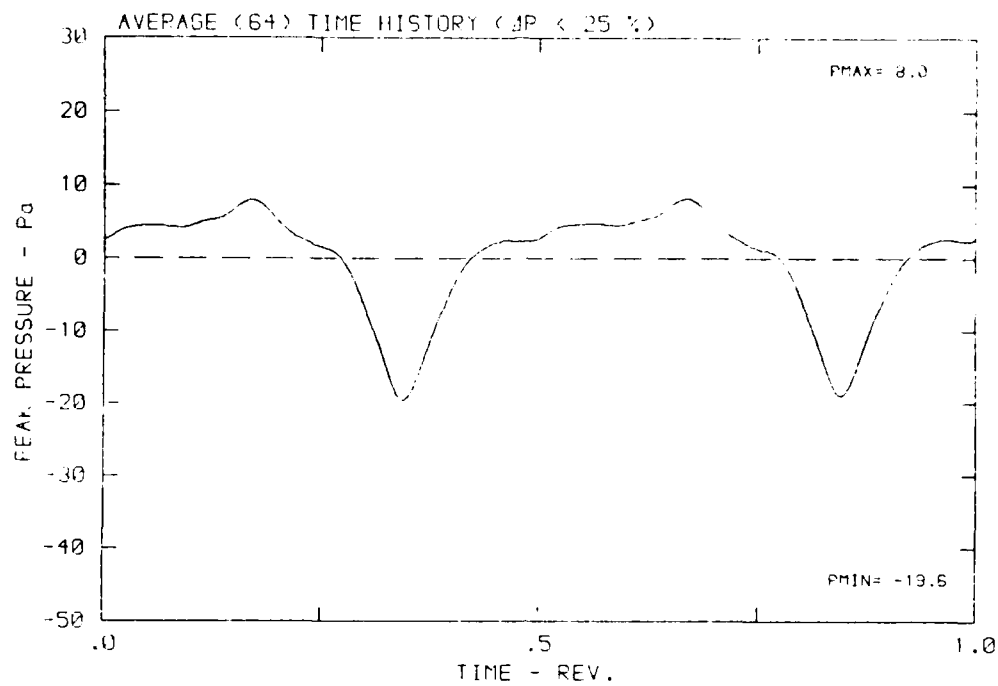
DATA POINT: CC-7 RUN: 121 MP: 1

β : 24.4° MH: .7191 n: 2250 rpm v/u: .216 ϕ : .0° T: 288.6 K



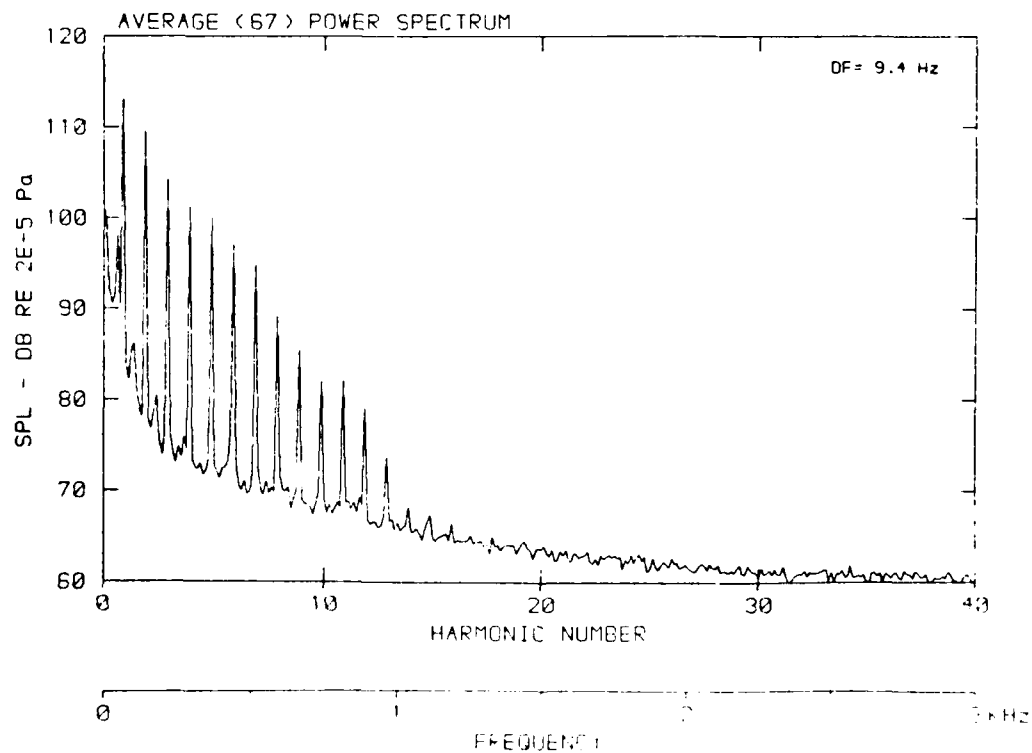
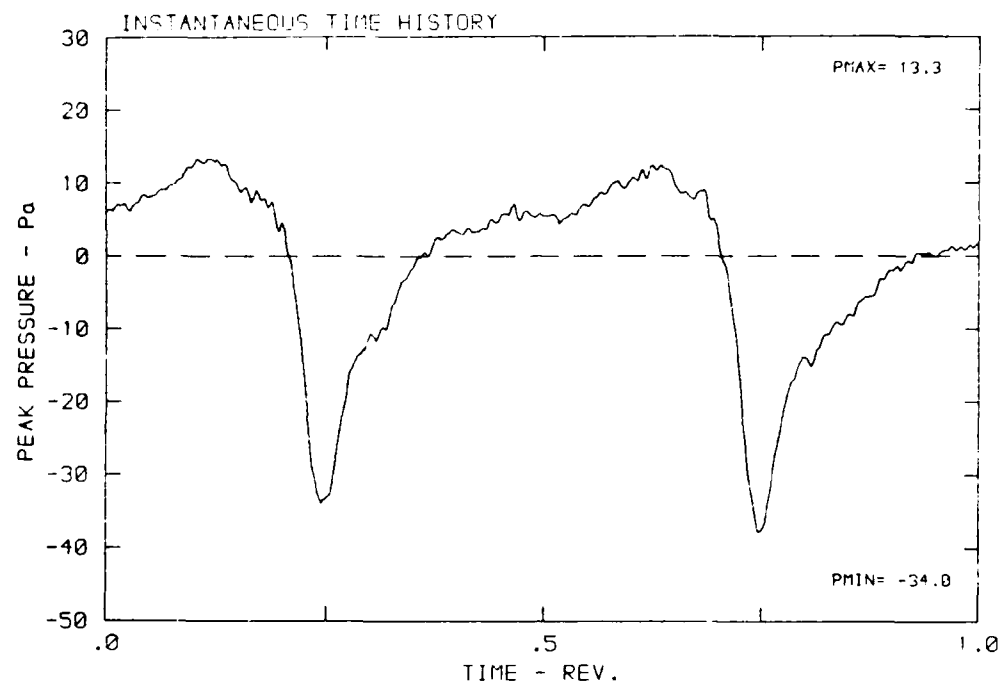
DATA POINT: CC-7 RUN: 121 MP: 1

β : 24.4° MH: .7191 n: 2250 rpm v/u: .216 ϕ : .0° T: 288.6 K



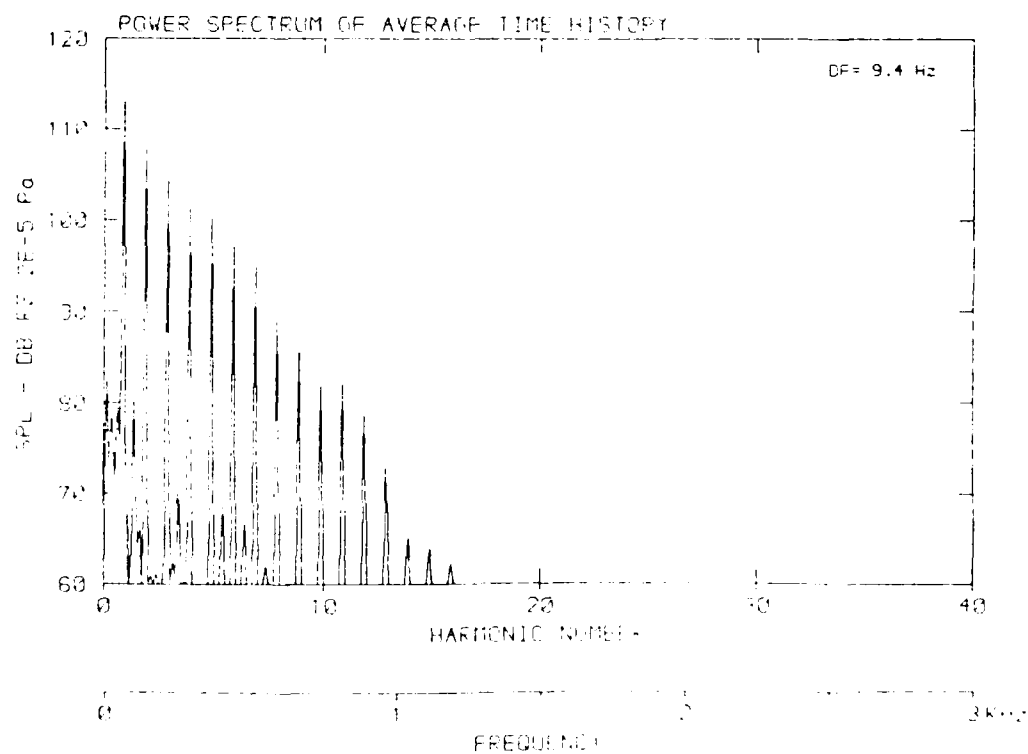
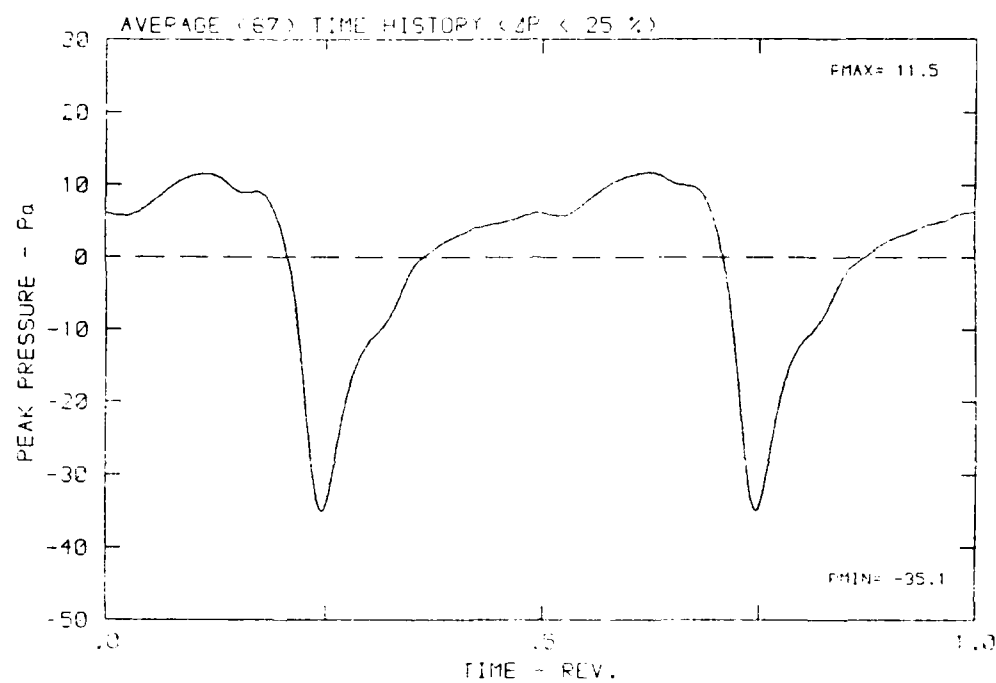
DATA POINT: CC-7 RUN: 121 MP: 2

β : 24.4° MH: .7191 n: 2250 rpm v/u : .216 ϕ : .0° T: 268.6 K



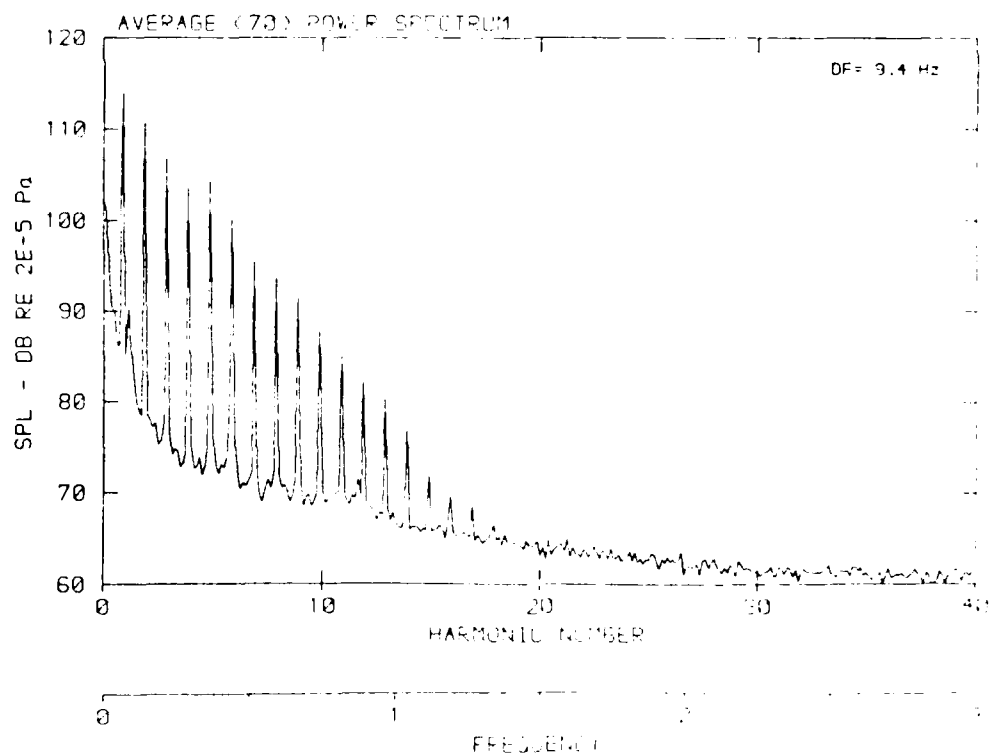
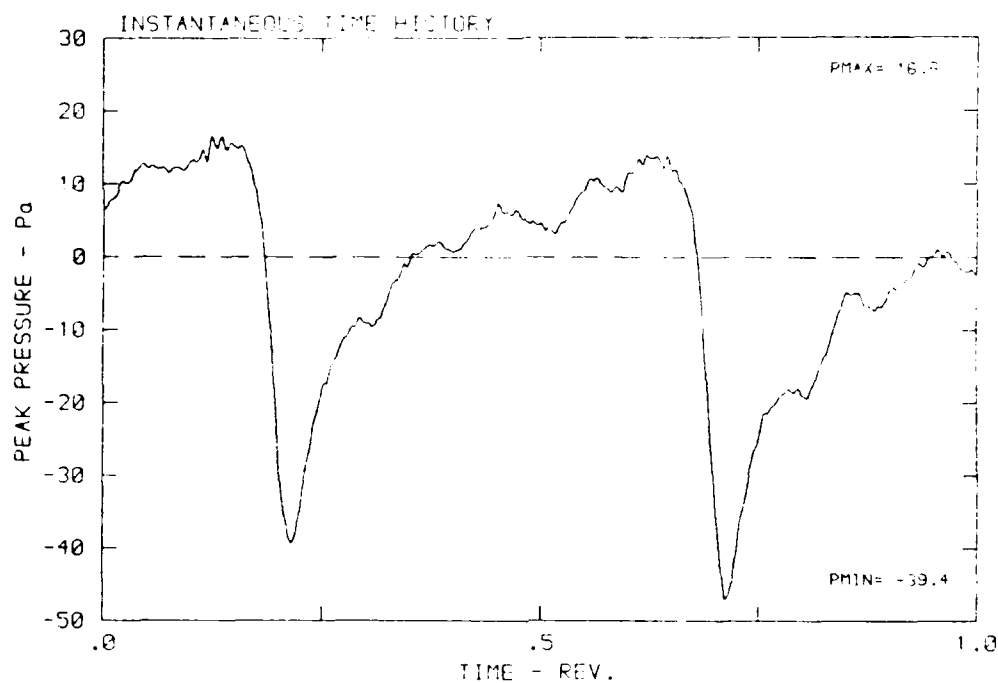
DATA POINT: CC-7 RUN: 121 MP: 2

β : 24.4° MH: .7191 n: 2250 rpm v/u : .216 ϕ : .0° T: 288.6 K



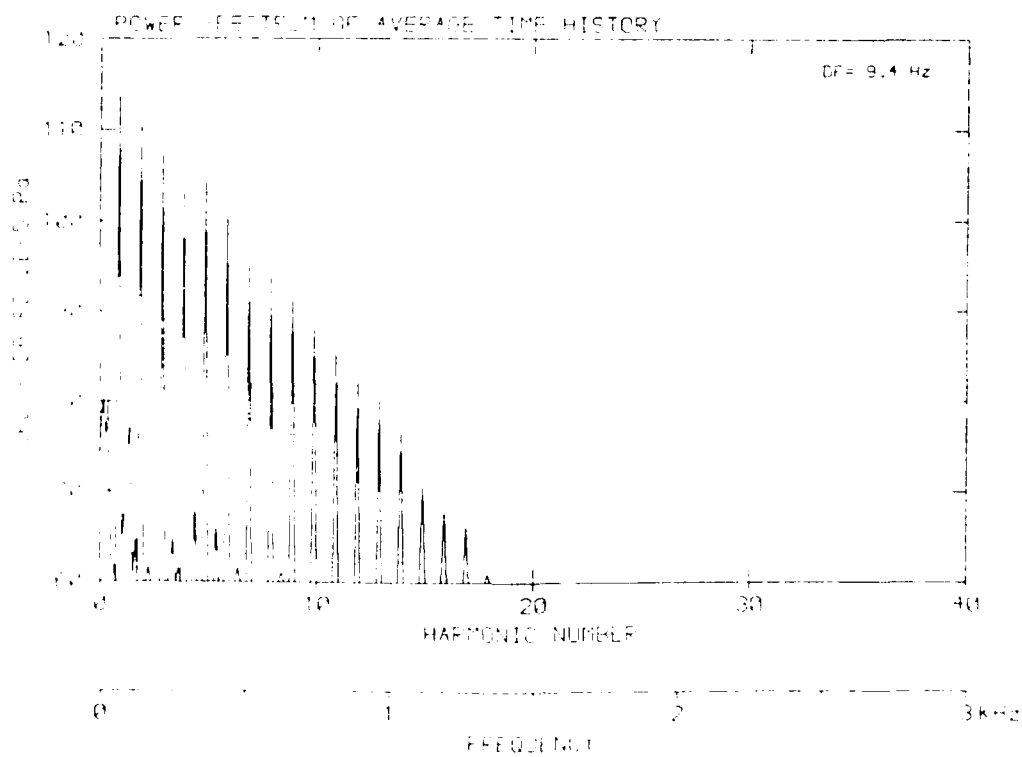
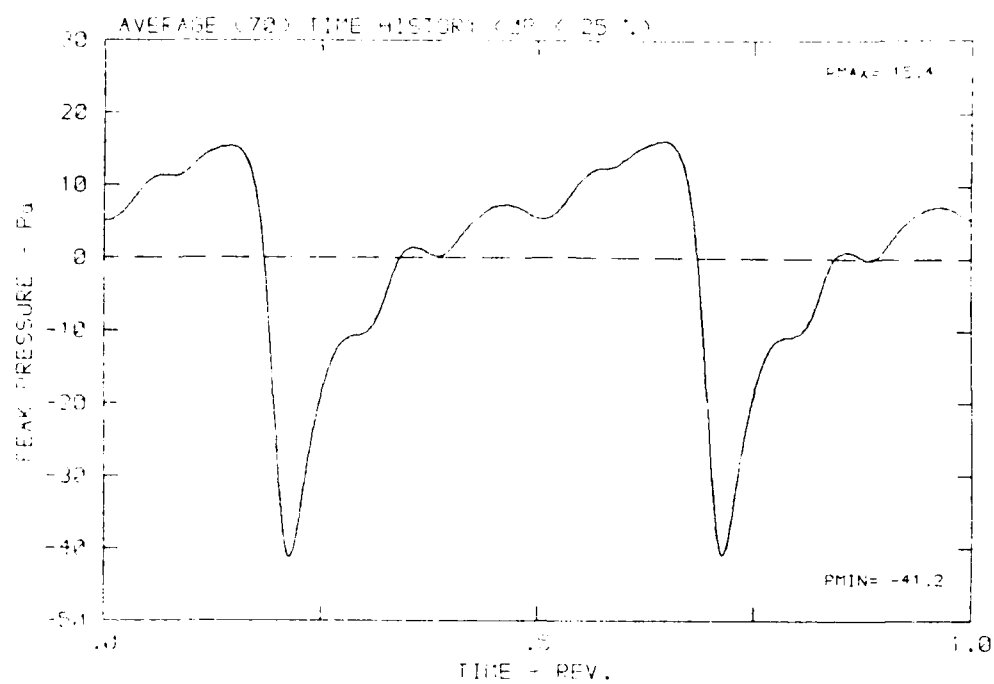
DATA POINT: CC-7 RUN: 121 MP: 3

β : 24.4° MH: .7191 ω : 2020 rpm γ : .215 ϕ : .0° T: 258.6 K



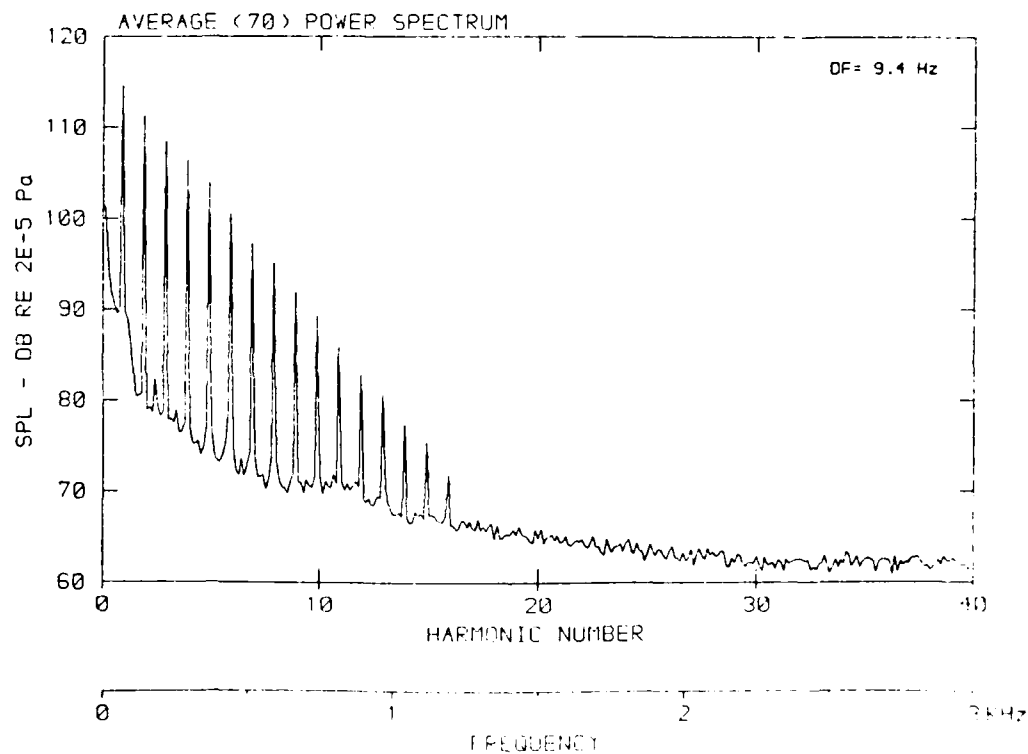
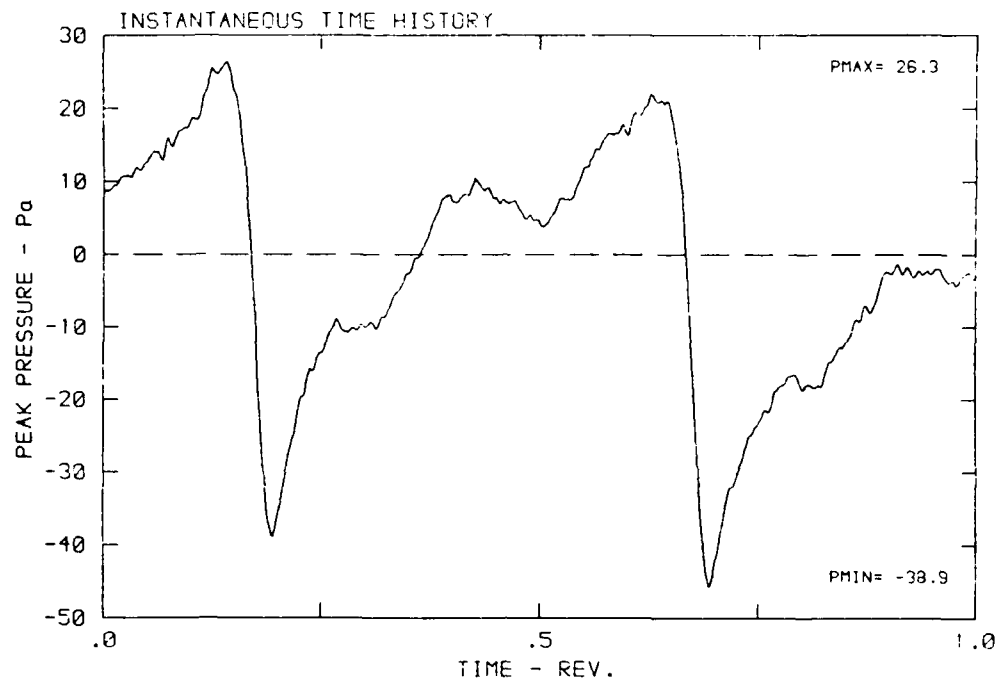
DATA POINTS: 00-7 RPM: 121 MP: 3

β : 24.4° MH: .7191 n: 2250 rpm λ : .216 ϕ : .0° T: 298.6 K



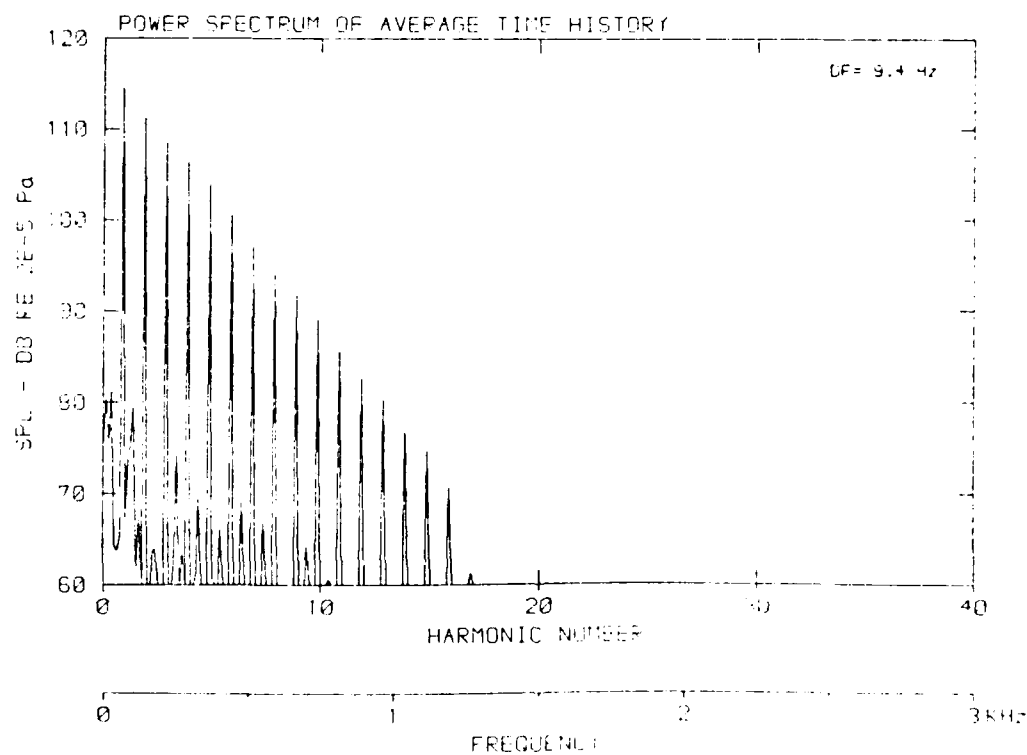
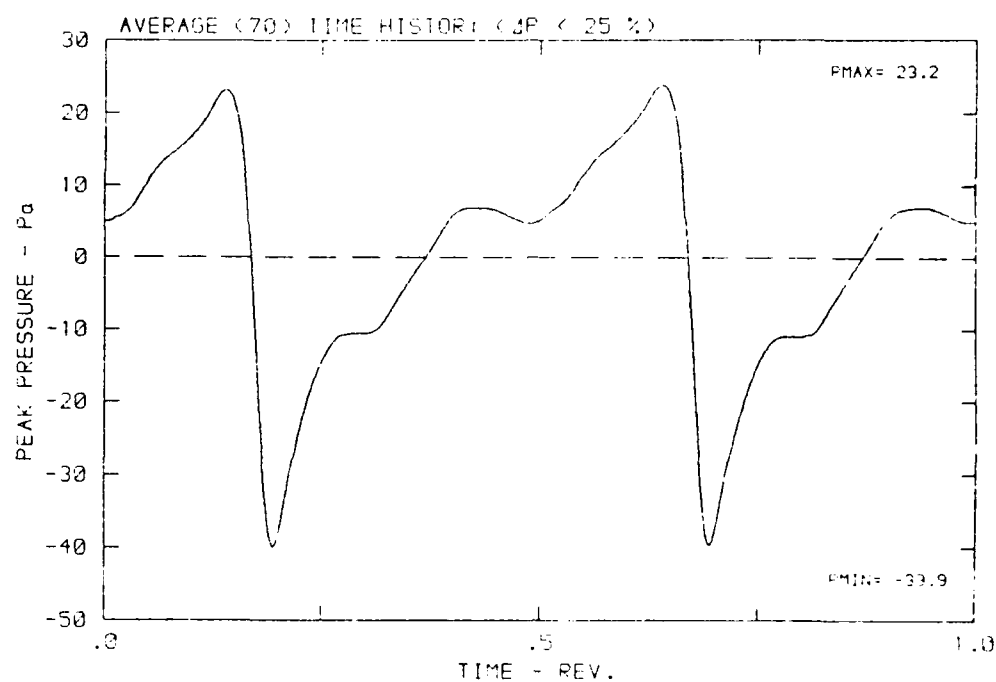
DATA POINT: CC-7 RUN: 121 MP: 4

β : 24.4° MH: .7191 n: 2250 rpm v/u : .216 ϕ : .0° T: 288.6 K



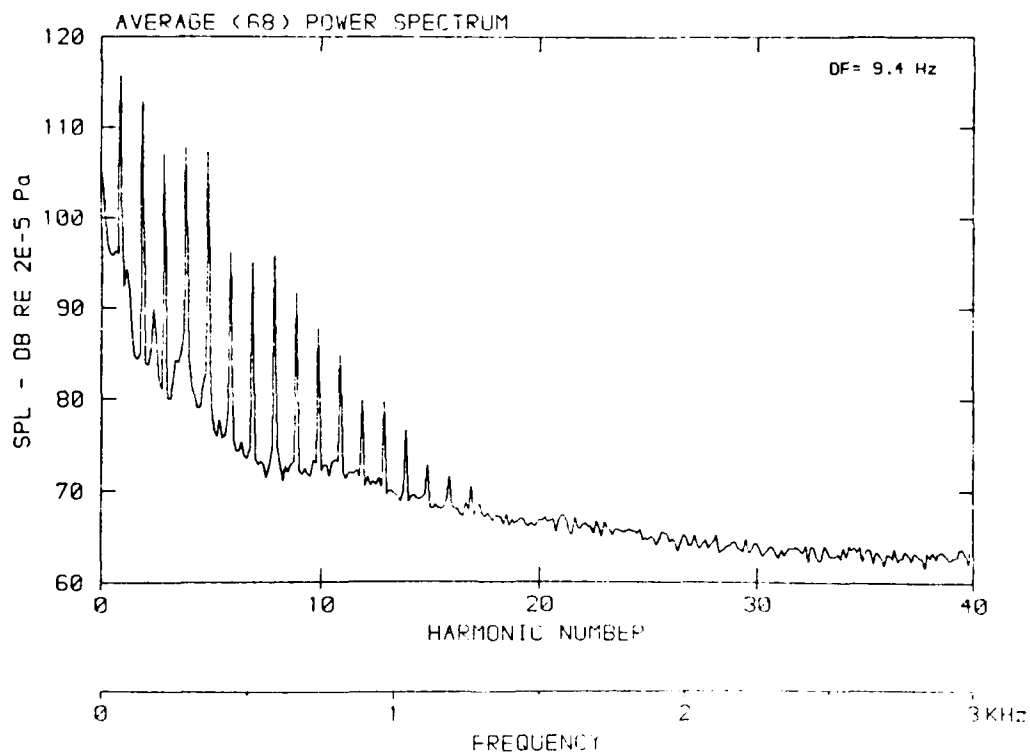
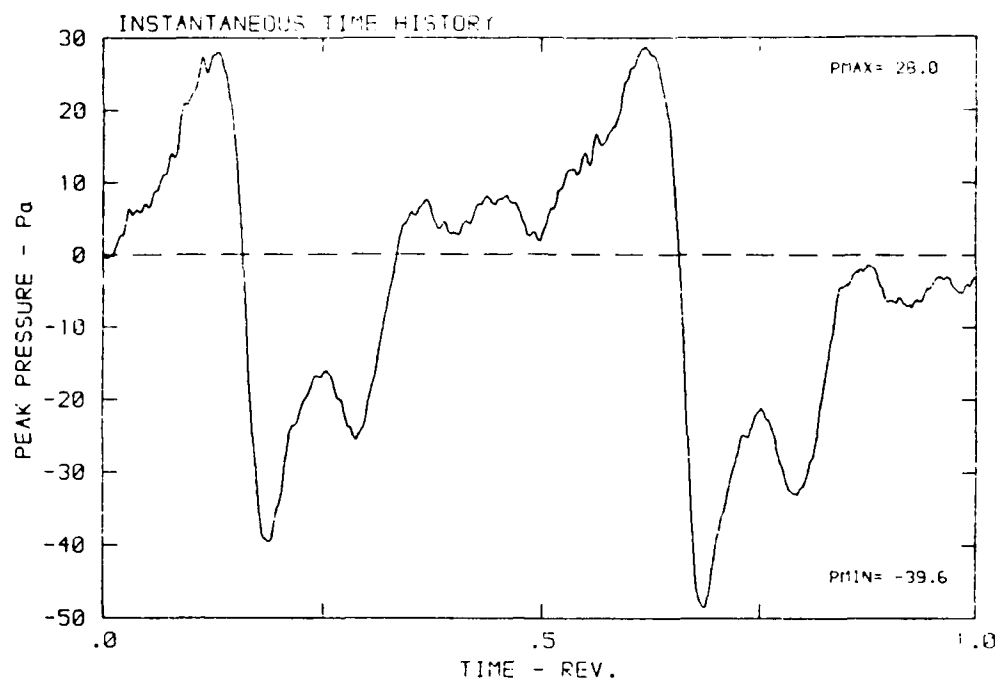
DATA POINT: CC-7 RUN: 121 MP: 4

β : 24.4° MH: .7191 n: 2250 rpm v/u: .216 ϕ : .0° T: 288.6 K



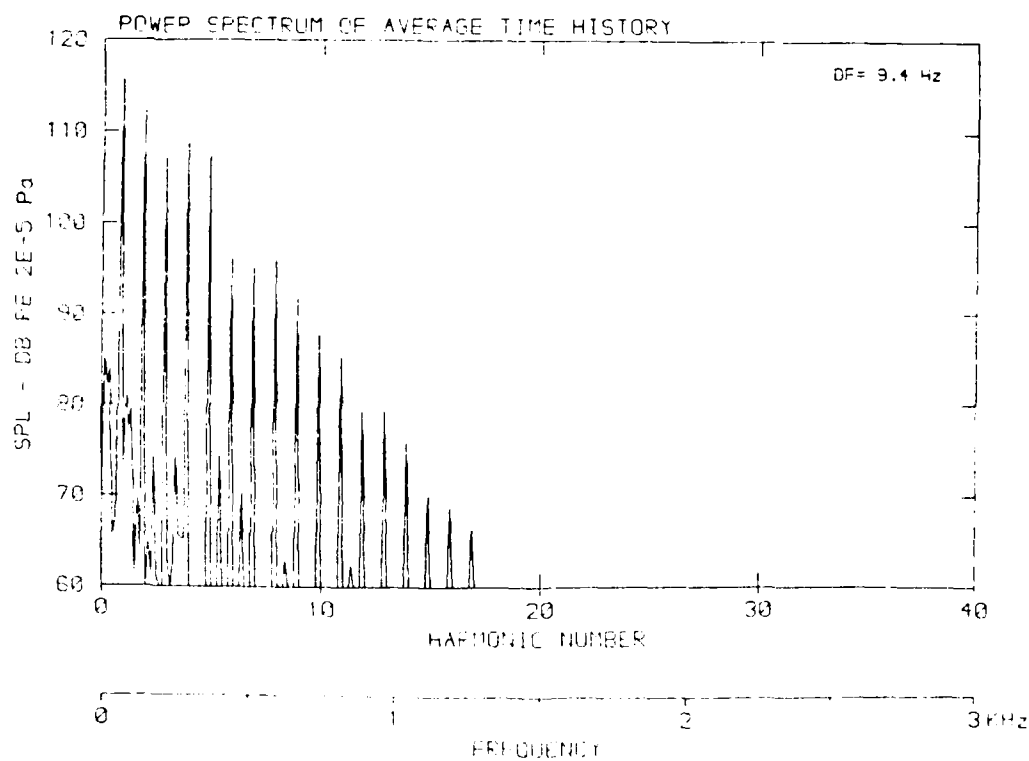
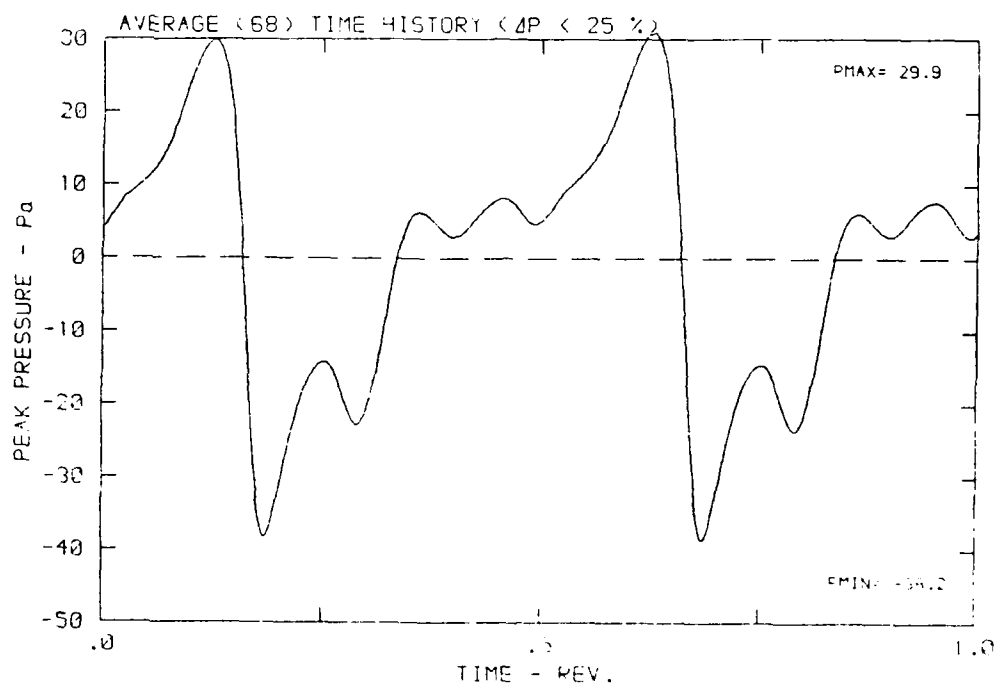
DATA POINT: CC-7 RUN: 121 MP: 5

β : 24.4° MH: .7191 ω : 2050 rpm λ : .216 ϕ : .0° T: 288.6 K



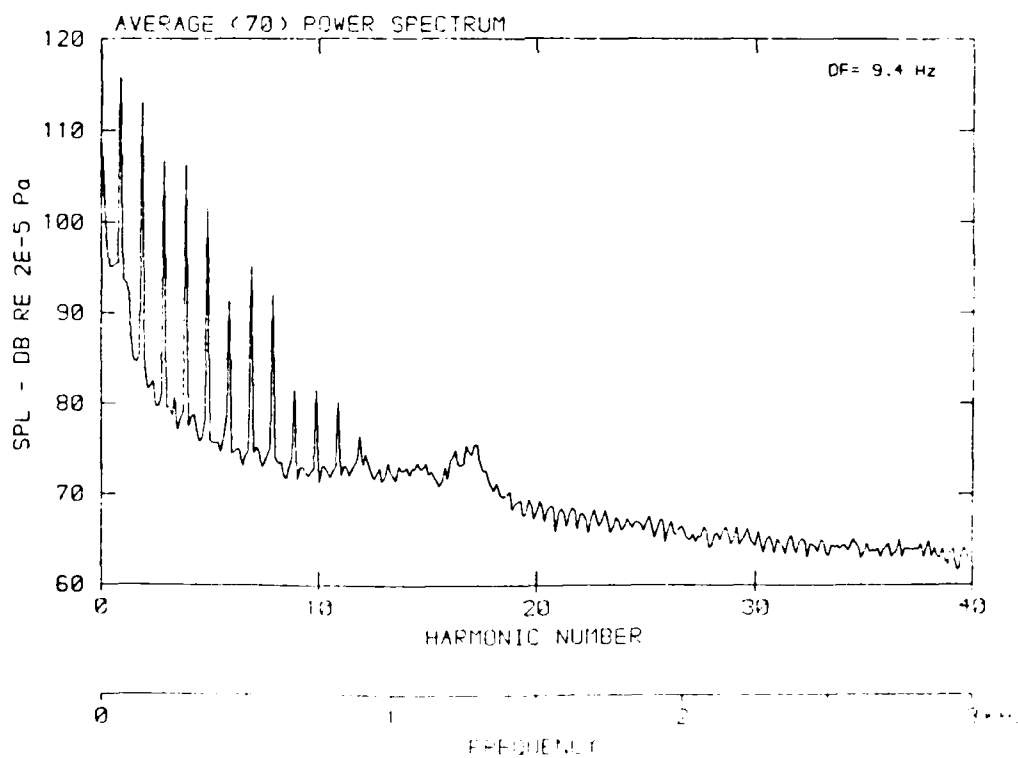
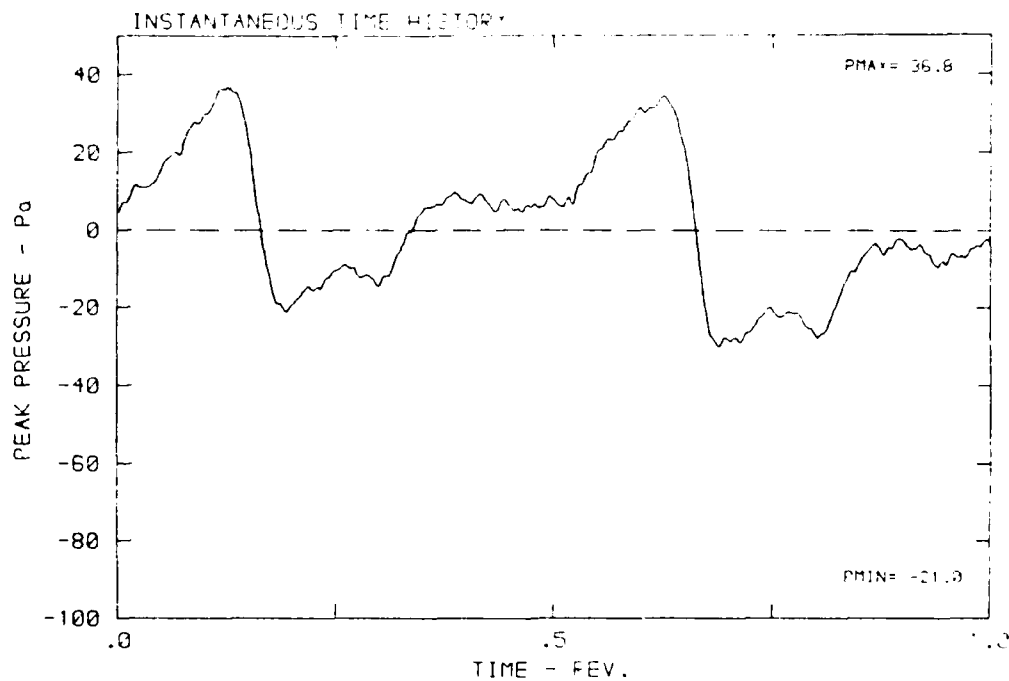
DATA POINT: CC-7 RUN: 121 MP: 5

β : 24.4° MH: .7191 n: 2250 rpm v/u: .216 ϕ : .0° T: 288.6 K



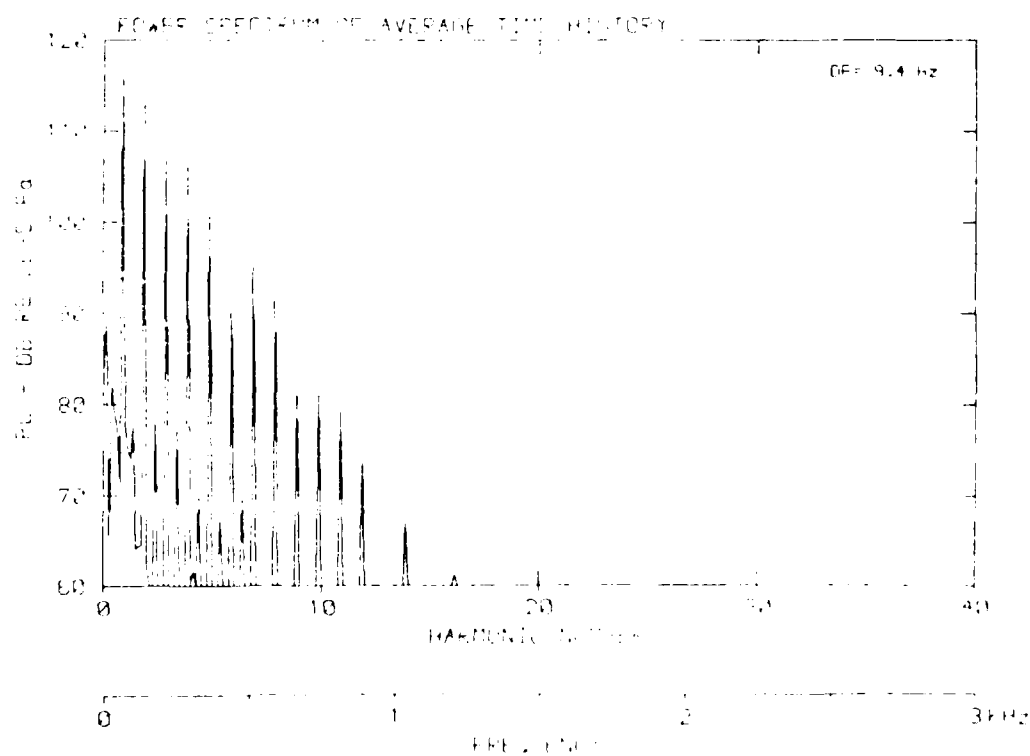
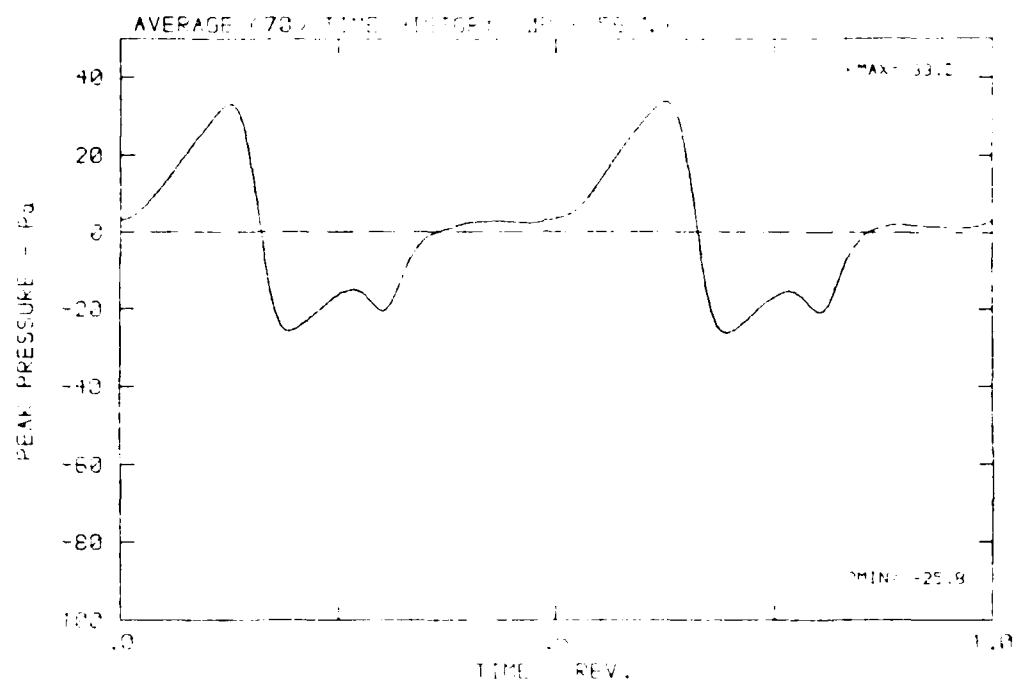
DATA POINT: CC-7 RUN: 121 MP: 6

β : 24.4° μ H: .7191 ρ : 2253 μ m λ : 0.16 ϕ : .0° T: 288.6 K



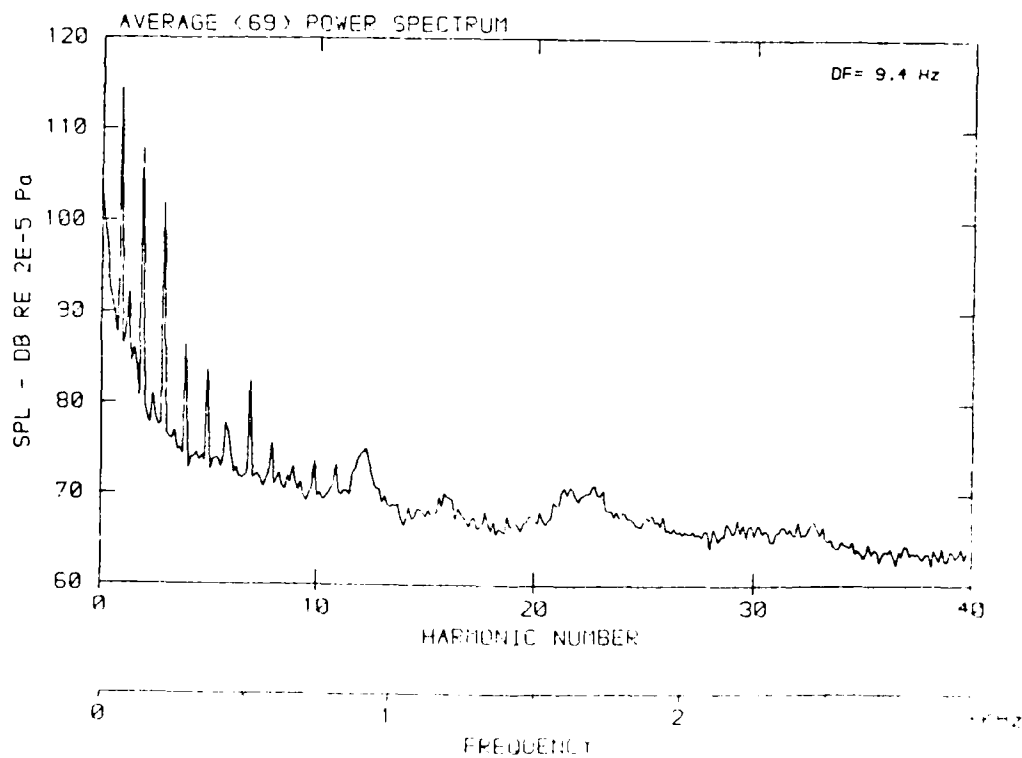
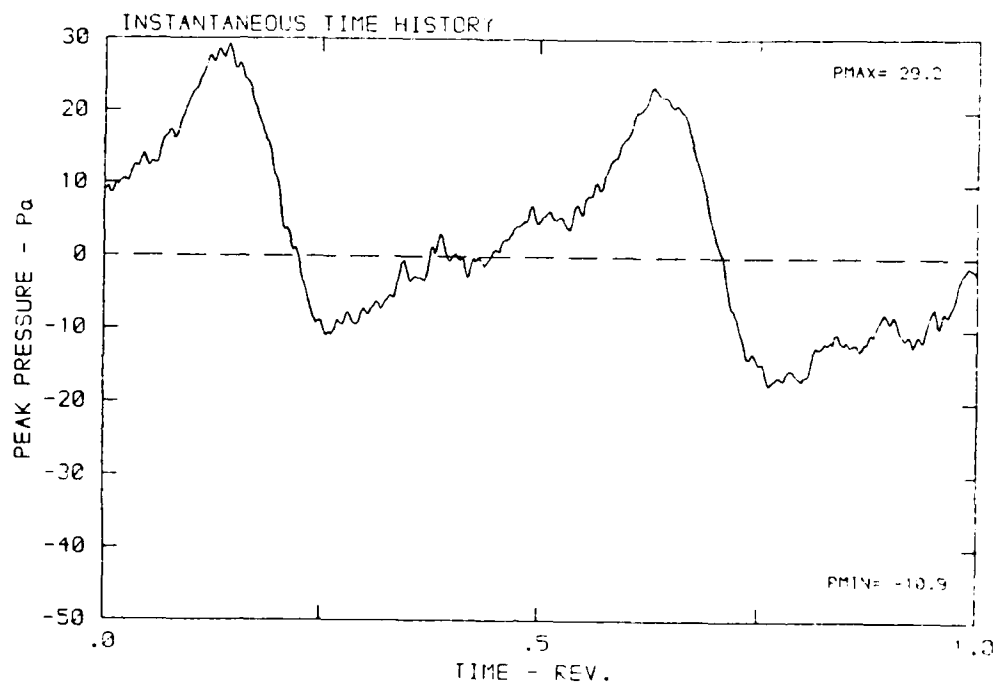
DATA POINT: CC-7 RUN: 121 MP: 6

β : 24.4° MH: .7191 ω : 2350 rpm χ : .215 ϕ : .0° T: 298.6 K



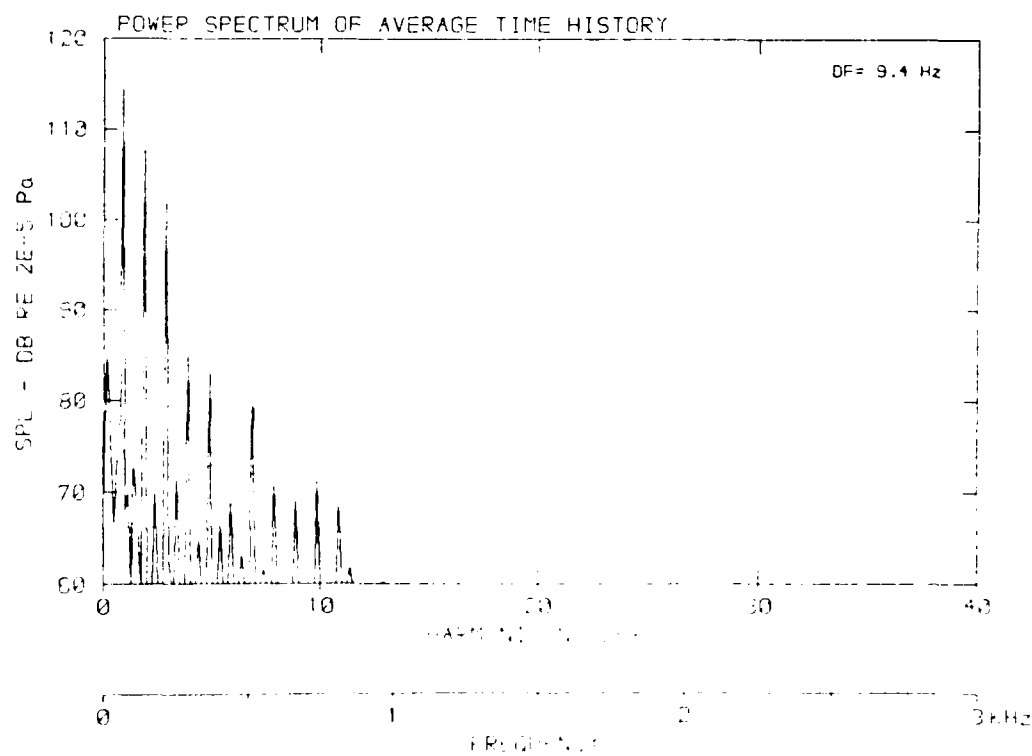
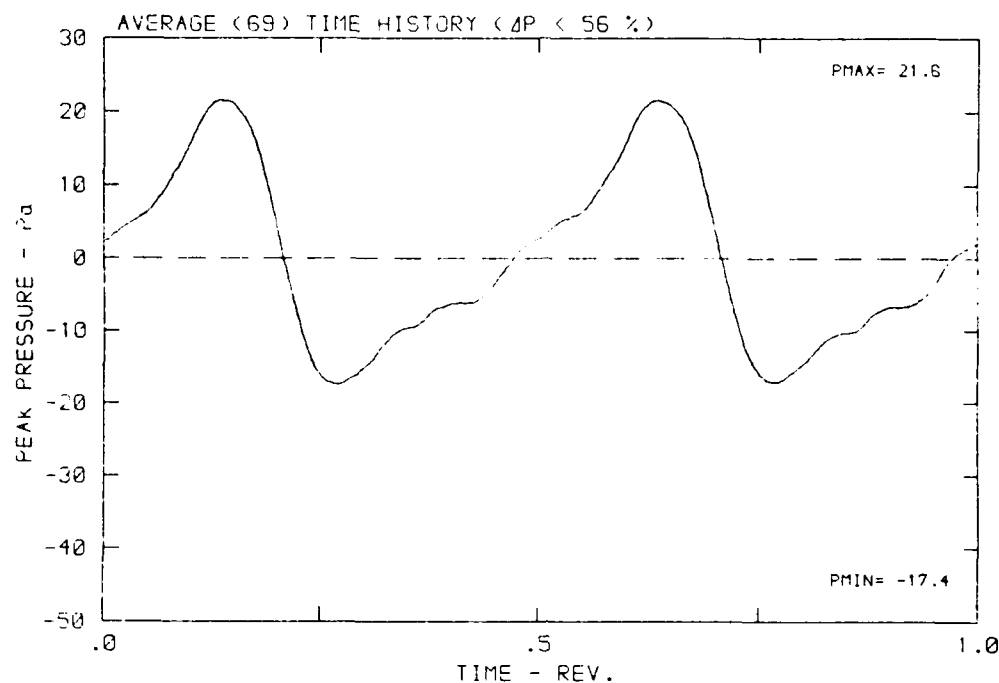
DATA POINT: CC-7 RUN: 101 MP: 7

β : 24.4° MH: .7191 n: 2250 rpm v_{tu} : .210 ϕ : .0° T: 298.6 K



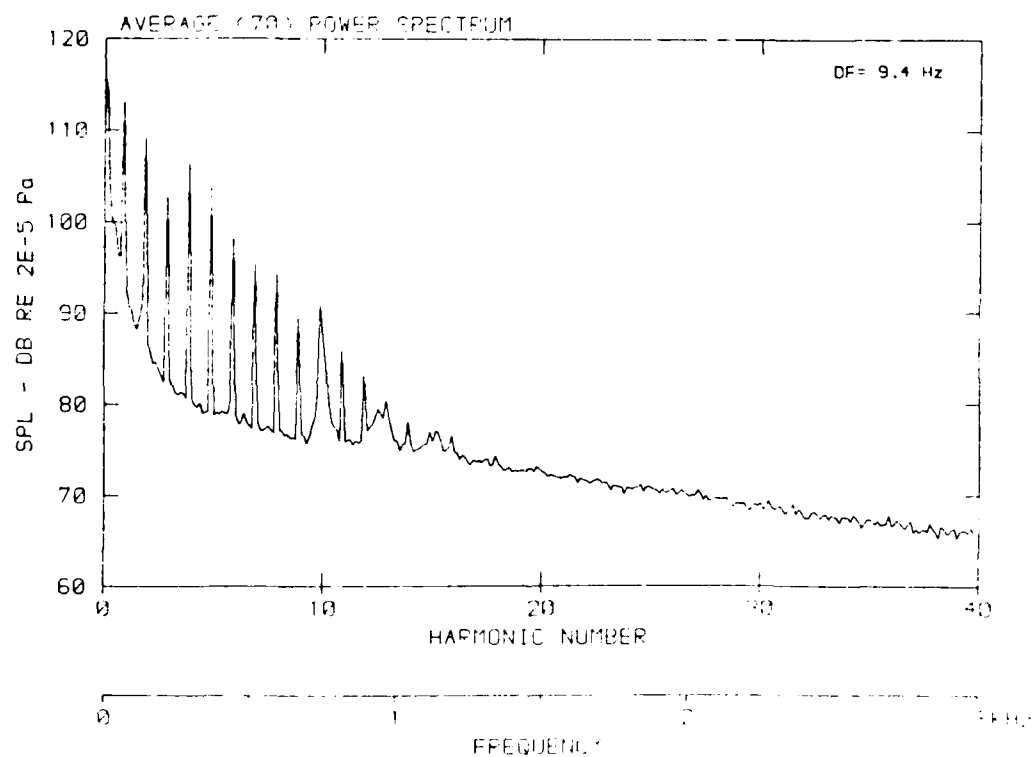
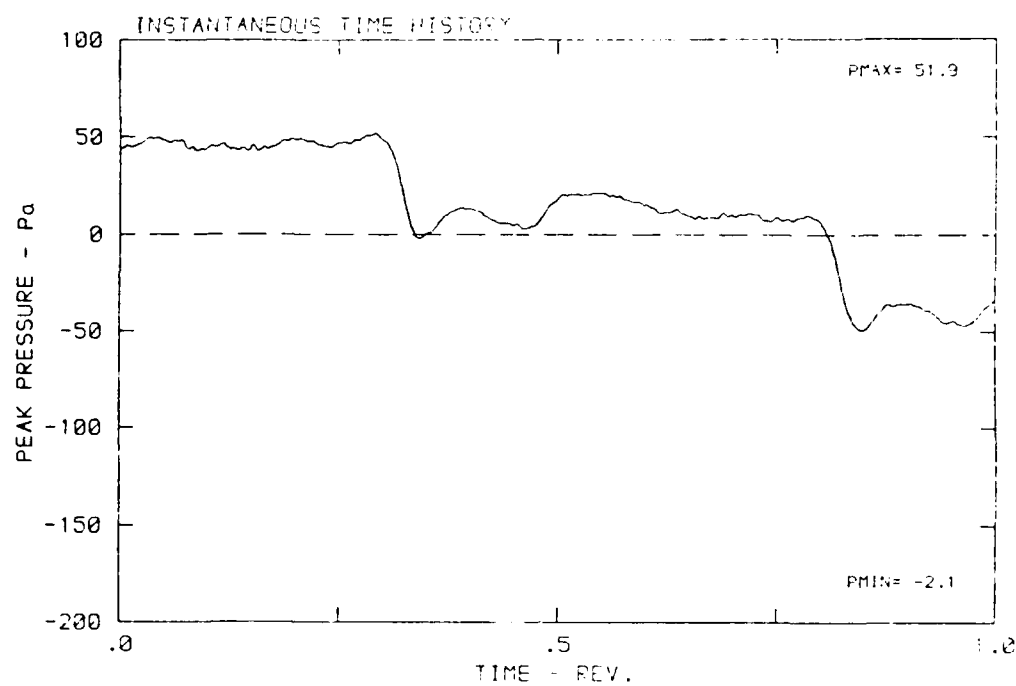
DATA POINT: CC-7 RUN: 121 MP: 7

β : 24.4° MH: .7191 n: 2250 rpm v/u : .216 ϕ : .0° T: 288.6 K



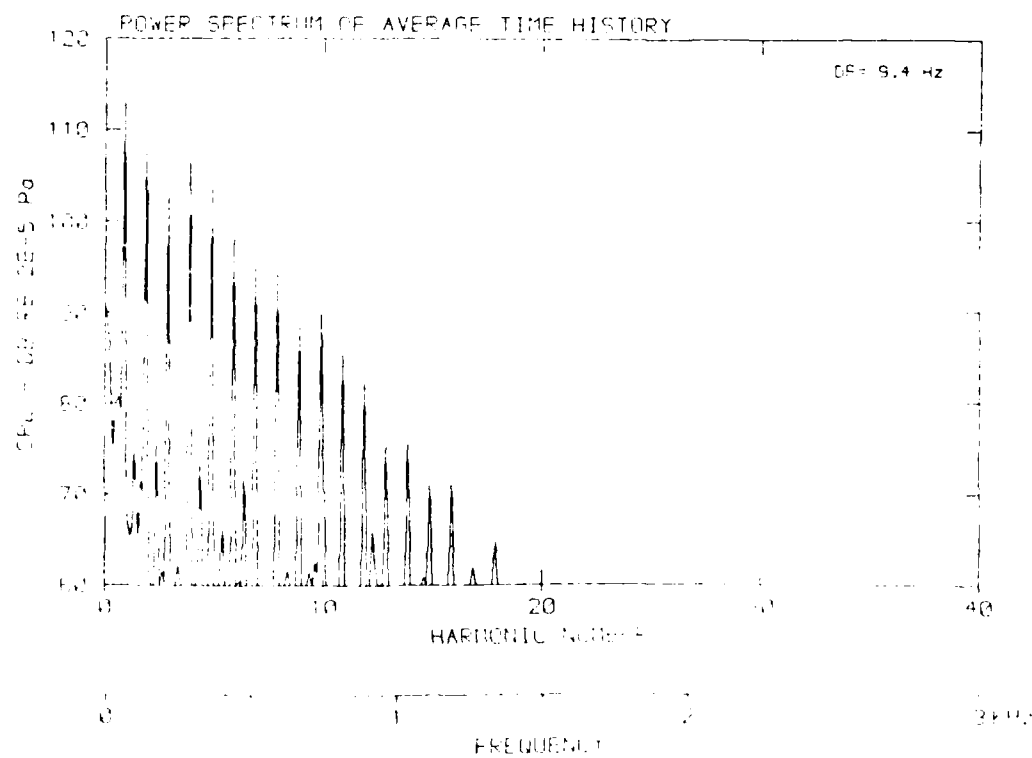
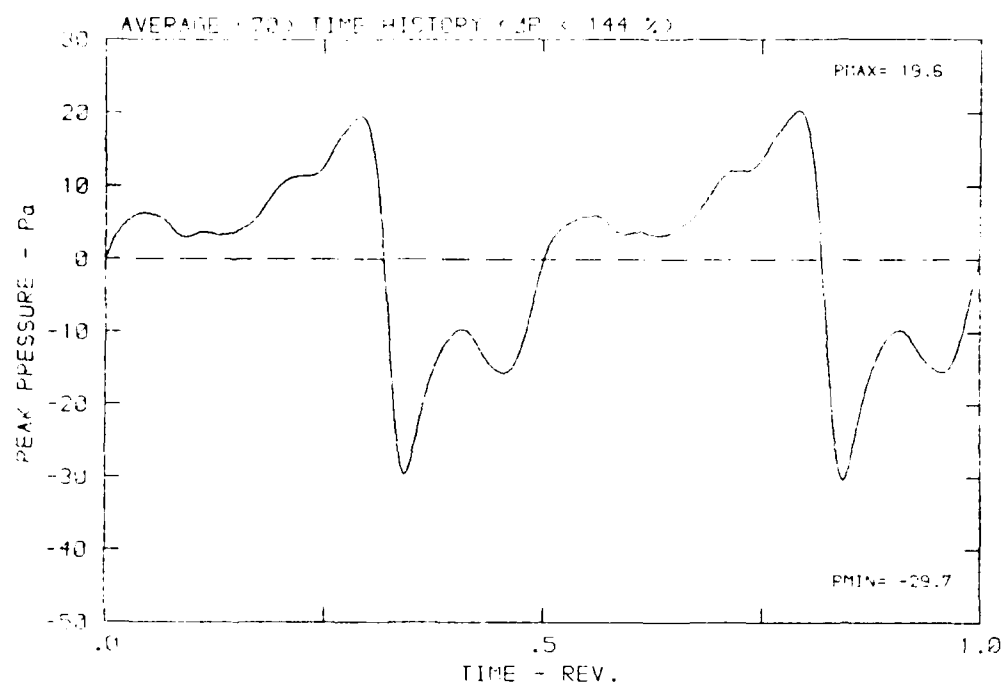
DATA POINT: CC-7 RUN: 121 MP: 3

β : 24.4° MH: .7191 n: 2050 rpm v u: .216 ϕ : .0° T: 293.6 K



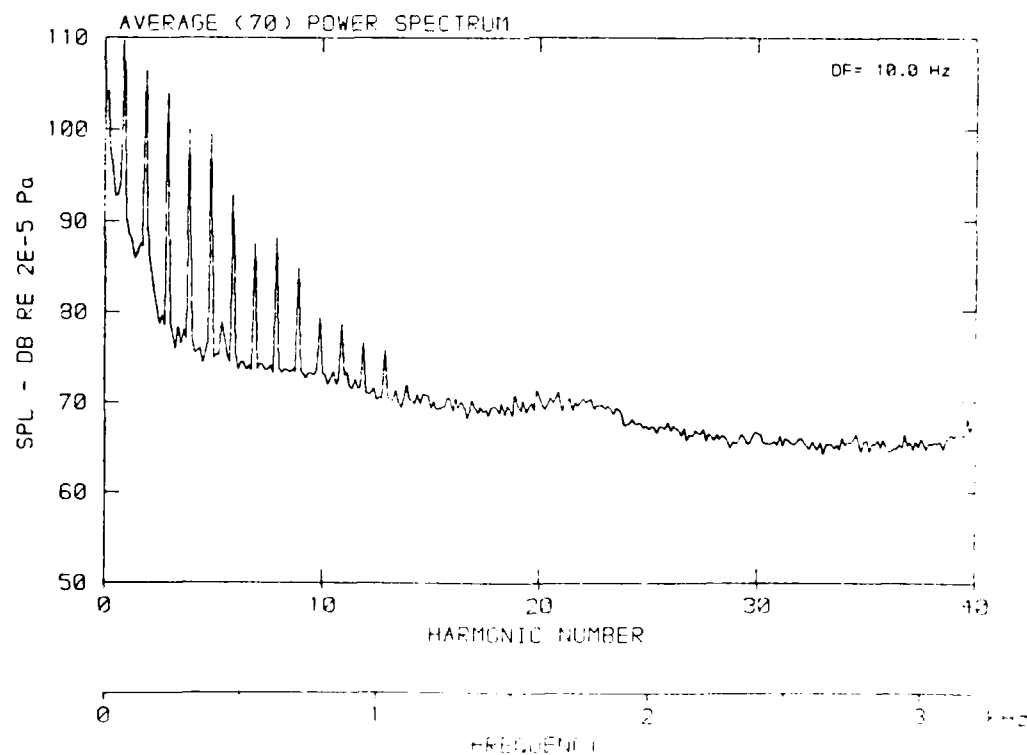
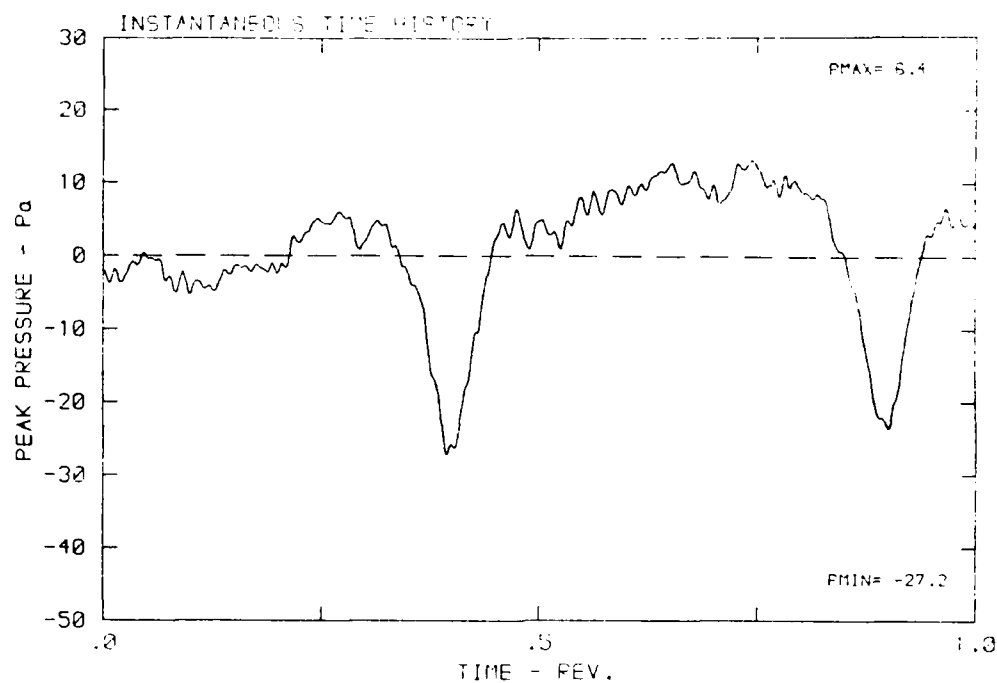
DATA POINT: CC-7 RUN: 121 MP: 9

β : 24.4° MH: .7191 n: 2250 rpm v/u : .216 ϕ : .0° T: 288.6 K



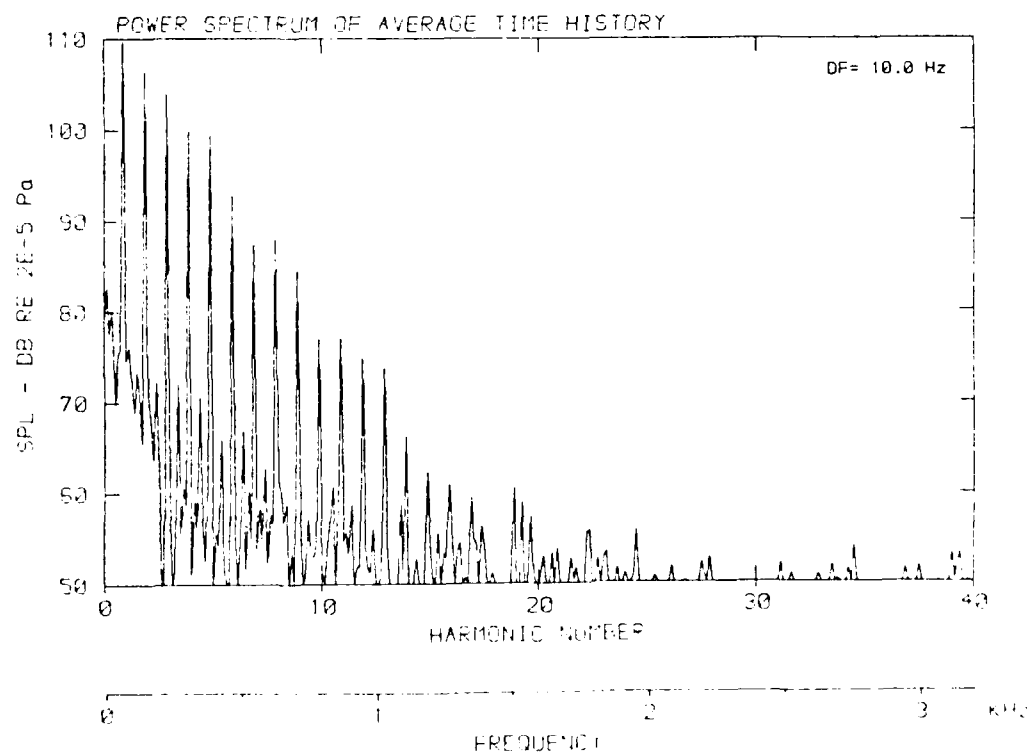
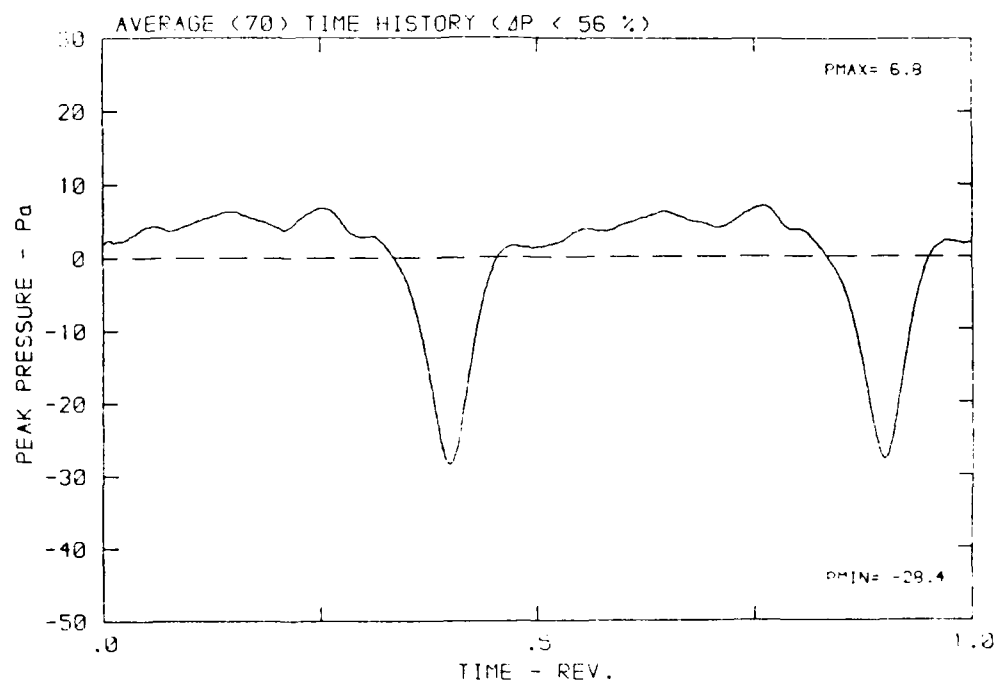
DATA POINT: CC-5 RUN: 123 MP: 1

β : 24.4° MH: .7739 n: 2400 rpm u: .263 ϕ : .0° T: 389.7 K



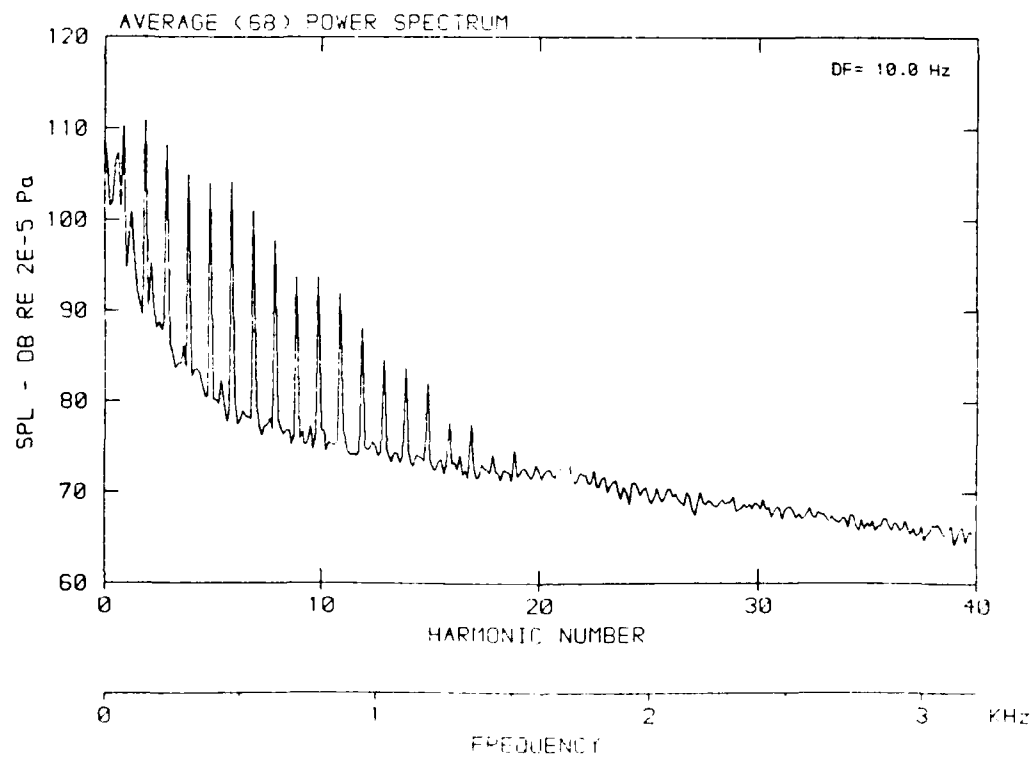
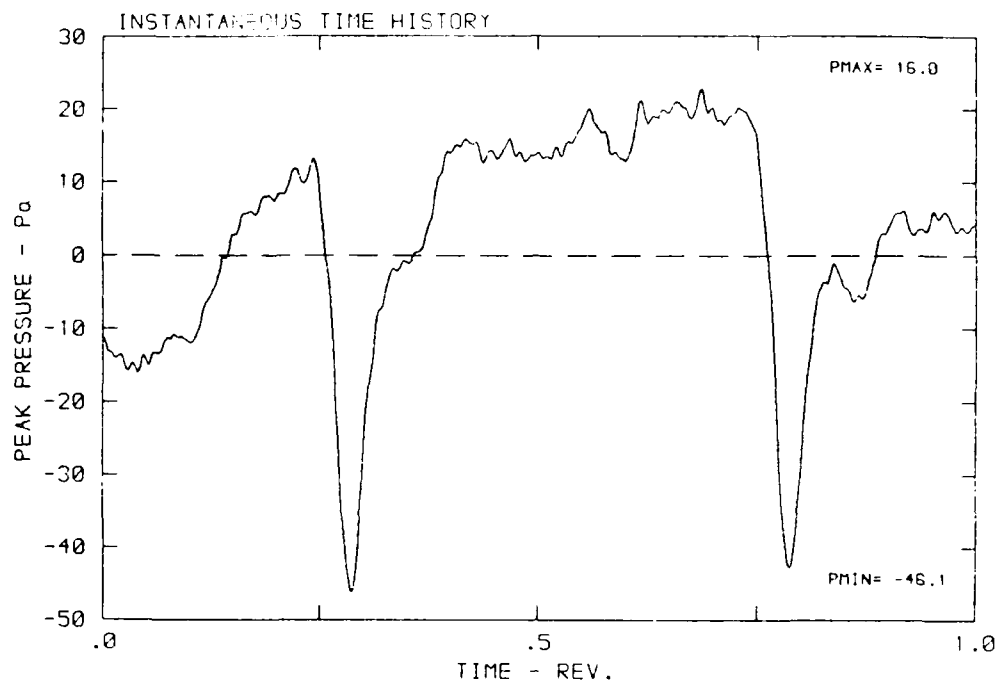
DATA POINT: CC-5 RUN: 123 MP: 1

β : 24.4° MH: .7738 n: 2400 rpm v/u: .263 ϕ : .0° T: 289.7 K



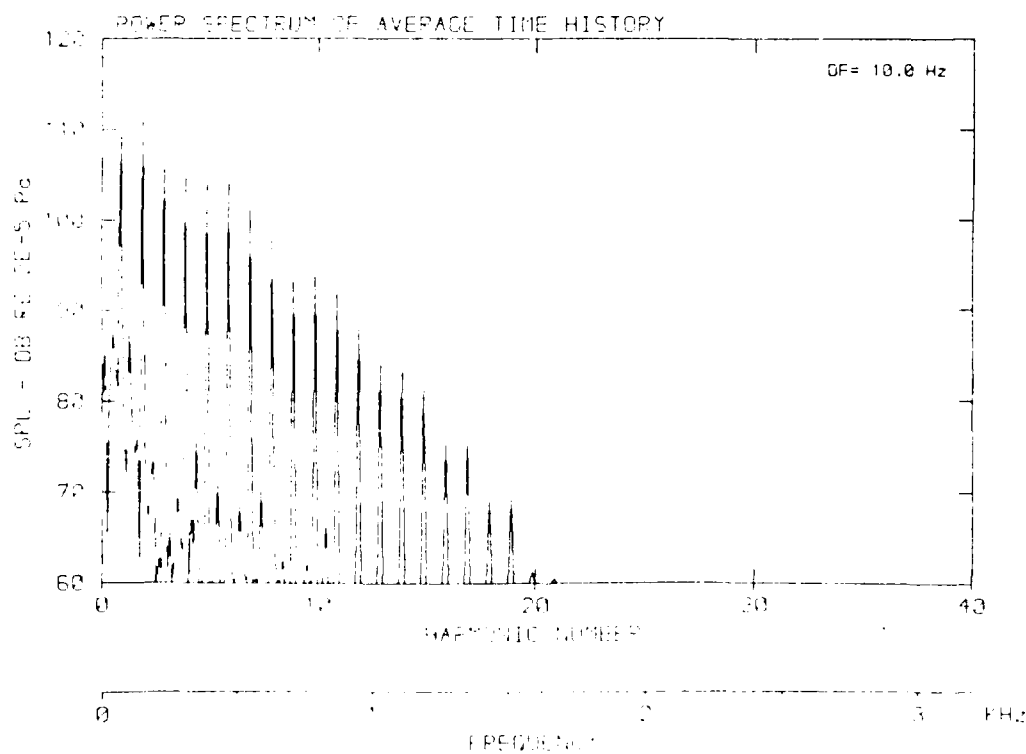
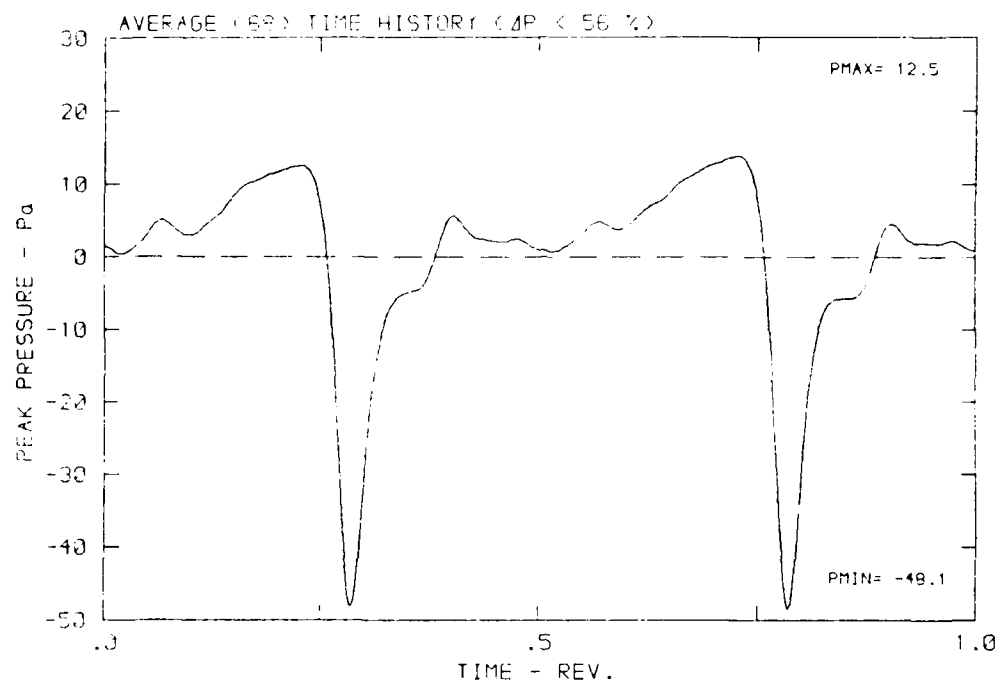
DATA POINT: CC-5 RUN: 123 MP: 2

β : 24.4° MH: .7738 n: 2400 rpm v/u: .263 ϕ : .0° T: 289.7 K



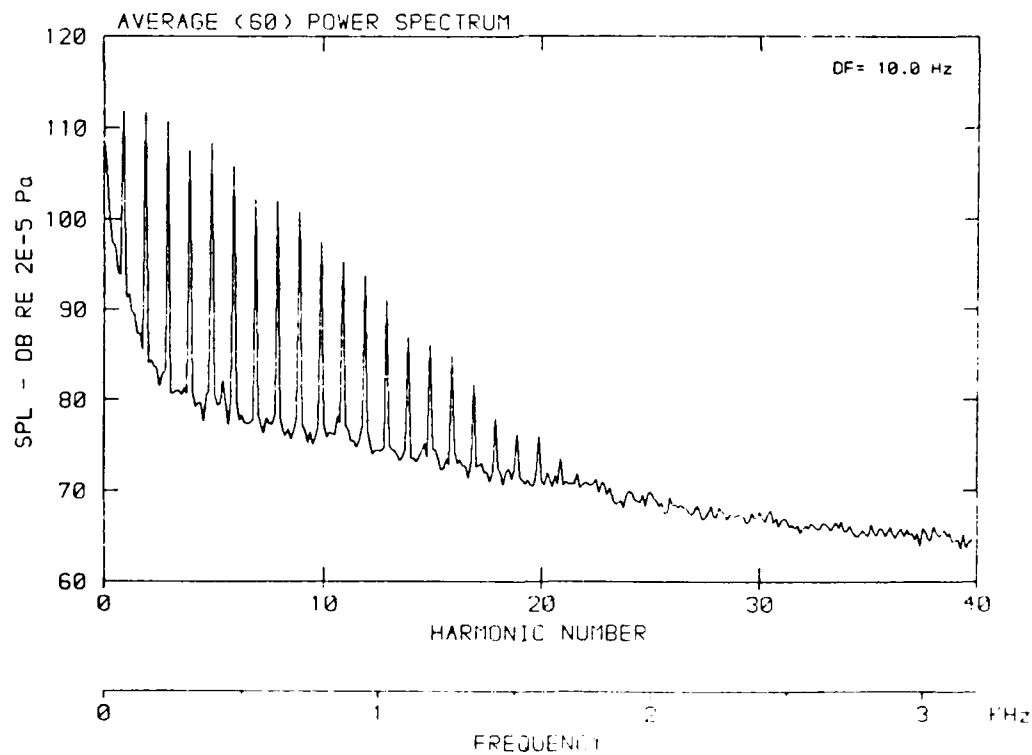
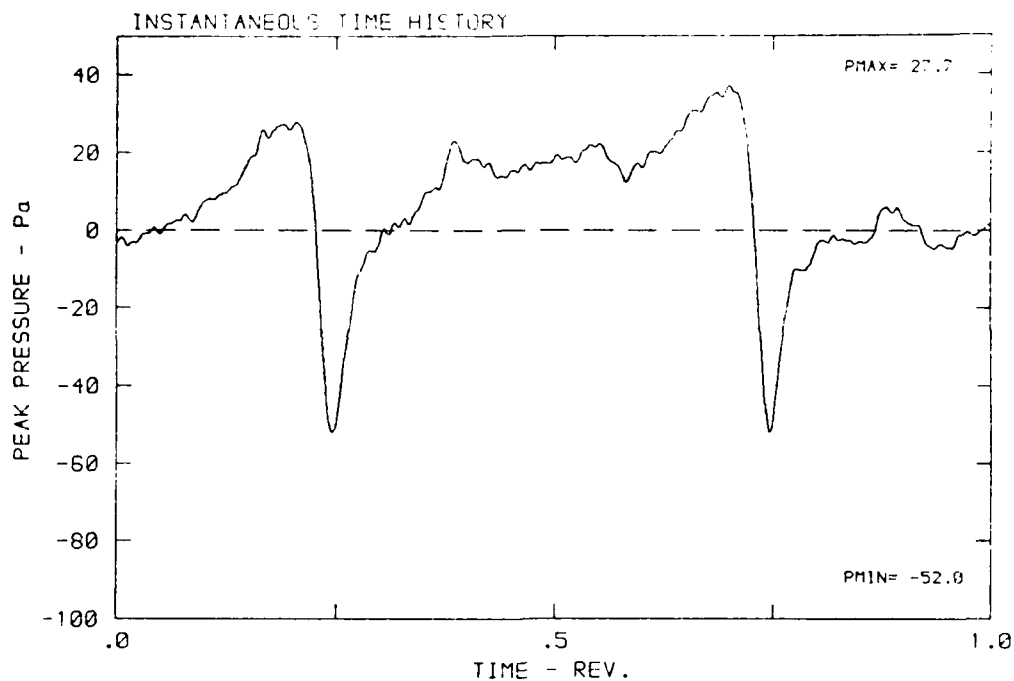
DATA POINT: CC-5 RUN: 123 MP: 2

β : 24.4° MH: .7738 n: 2400 rpm v/u : .263 ϕ : .0° T: 289.7 K



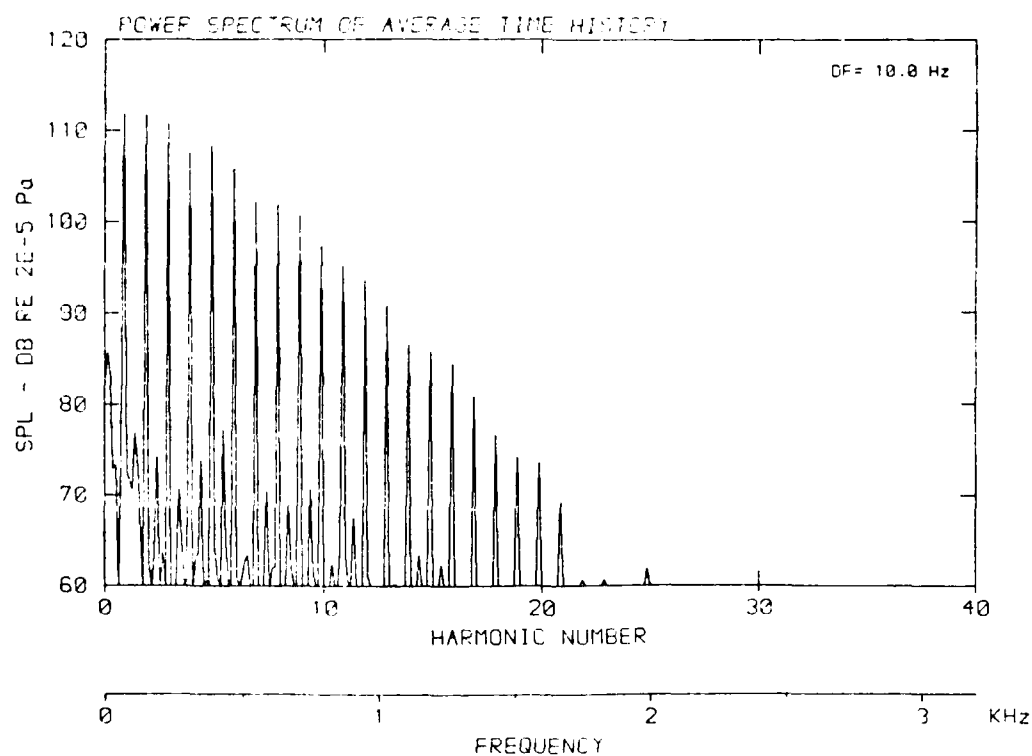
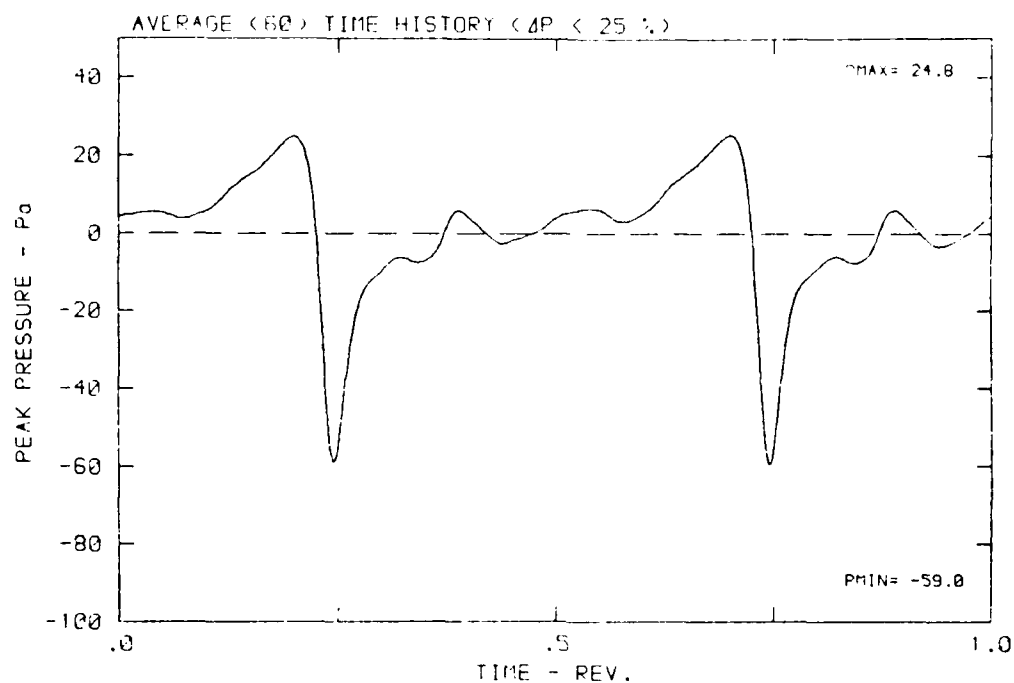
DATA POINT: CC-5 FINE: 125 MP: 3

β : 24.4° MH: .7736 n: 2400 rpm λ : .26 ϕ : .0° T: 289.7 K



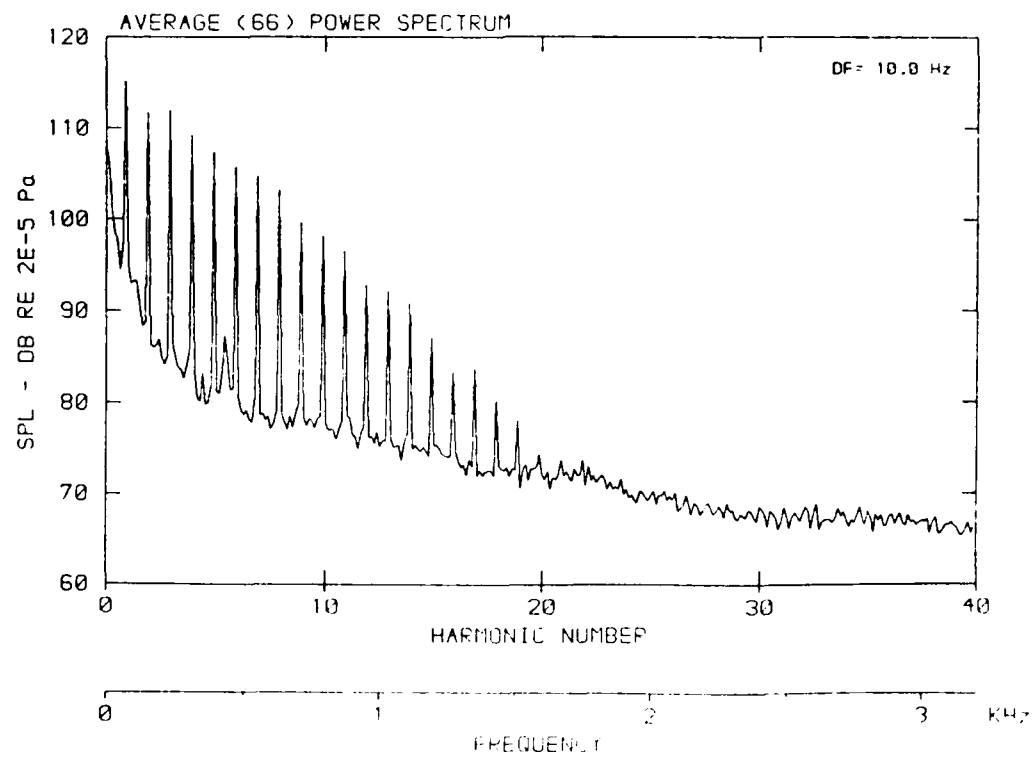
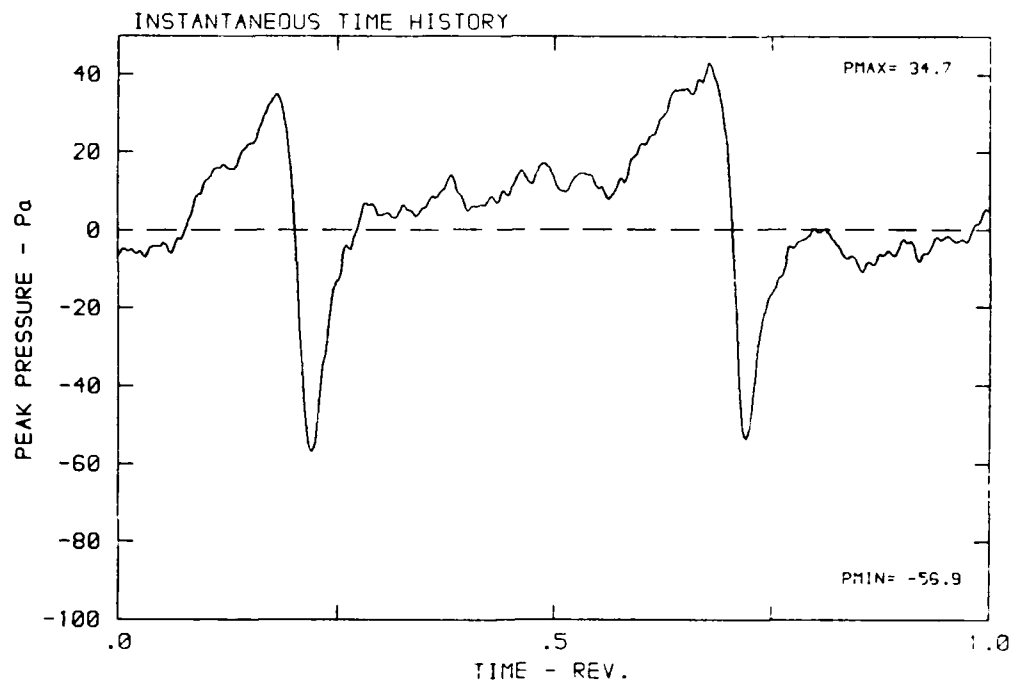
DATA POINT: CC-5 RUN: 123 MP: 3

β : 24.4° MH: .7738 n: 2400 rpm v/u: .263 ϕ : .0° T: 289.7 K



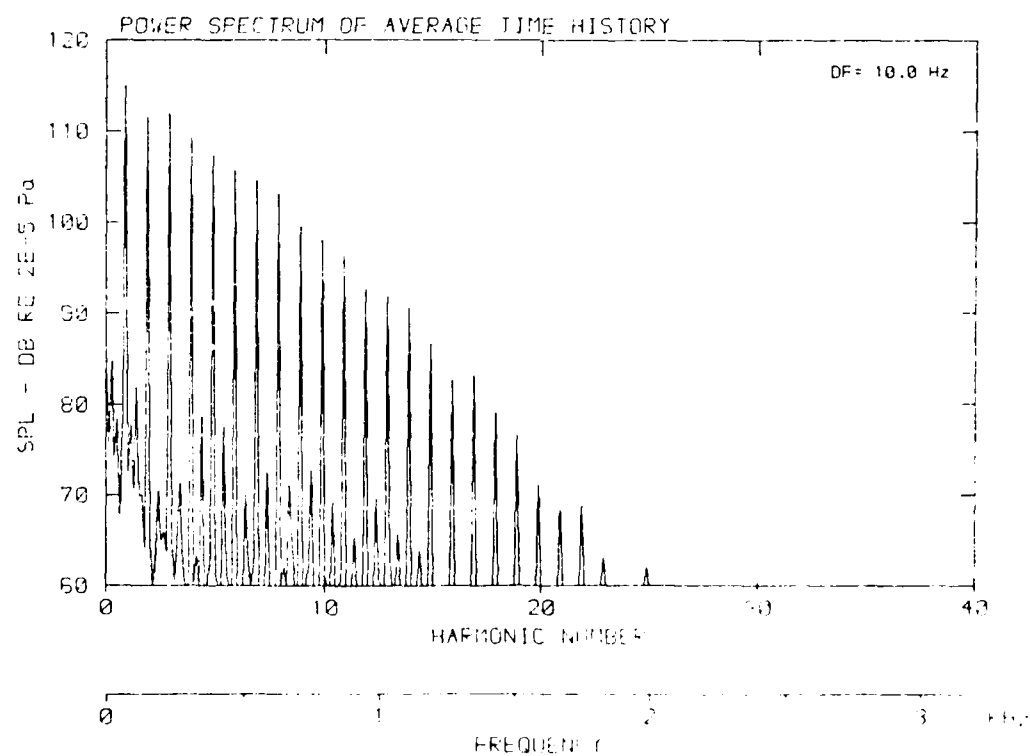
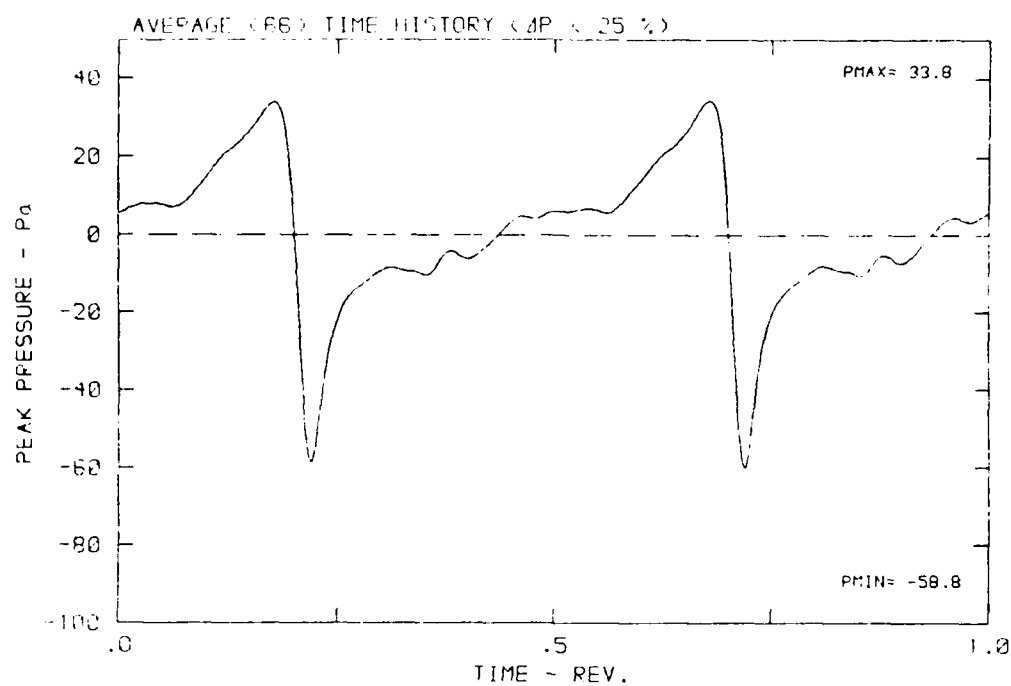
DATA POINT: CC-5 RUN: 123 MP: 4

β : 24.4° MH: .7738 n: 2400 rpm v/u : .253 ϕ : .0° T: 259.7 K



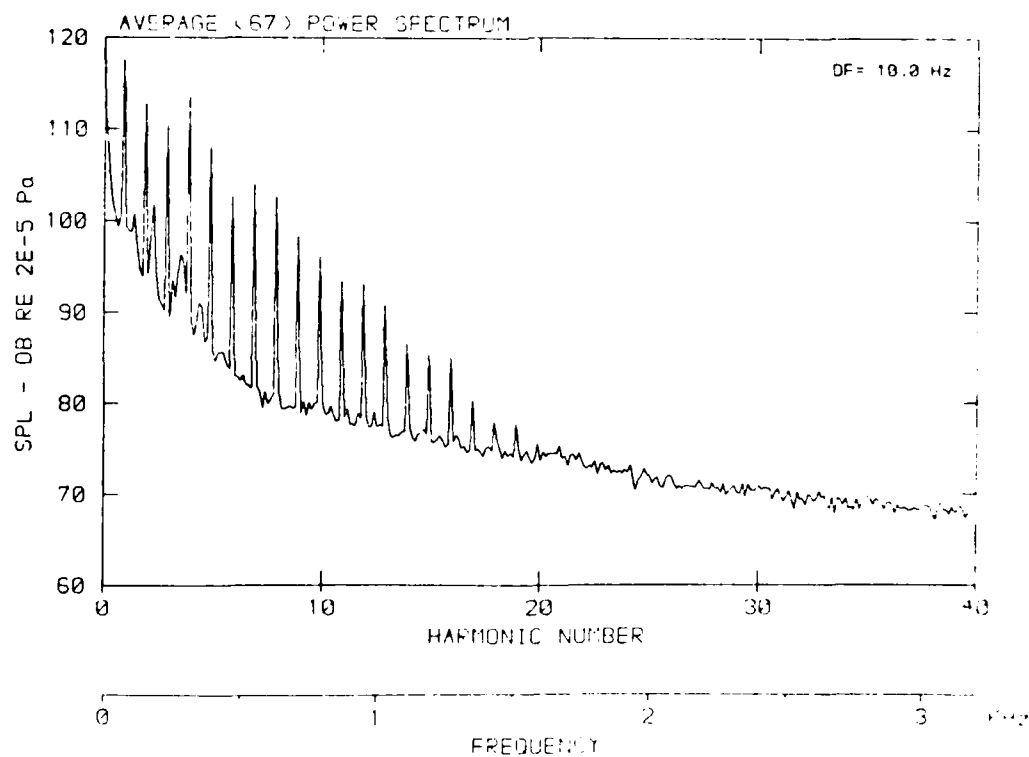
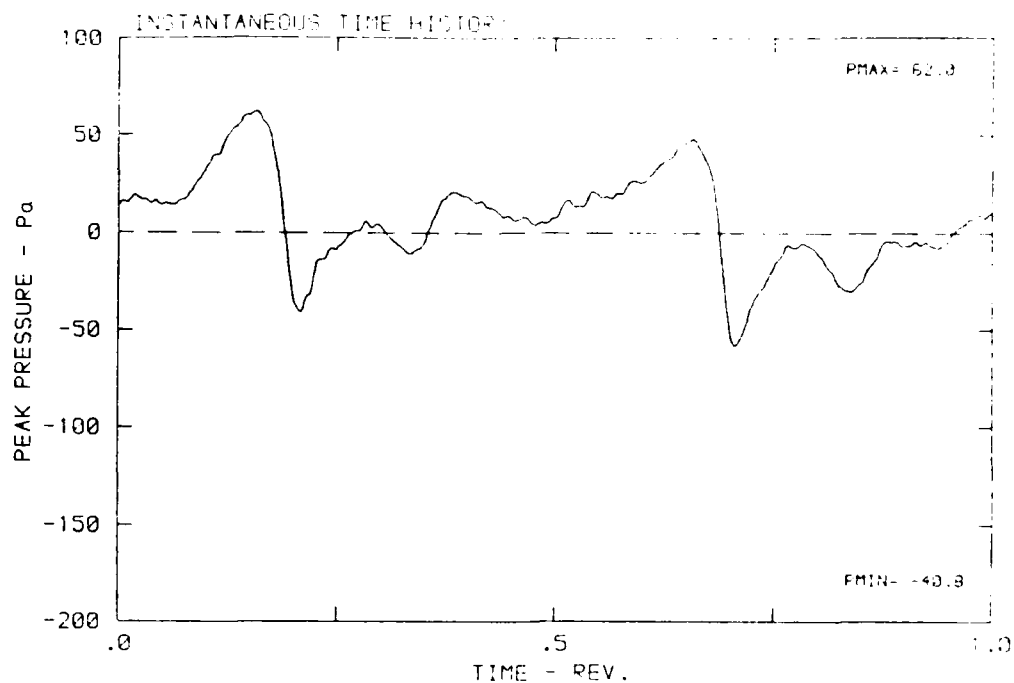
DATA POINT: CC-5 RUN: 123 MP: 4

β : 24.4° MH: .7738 n: 2400 rpm v/u: .263 ϕ : $.0^\circ$ T: 289.7 K



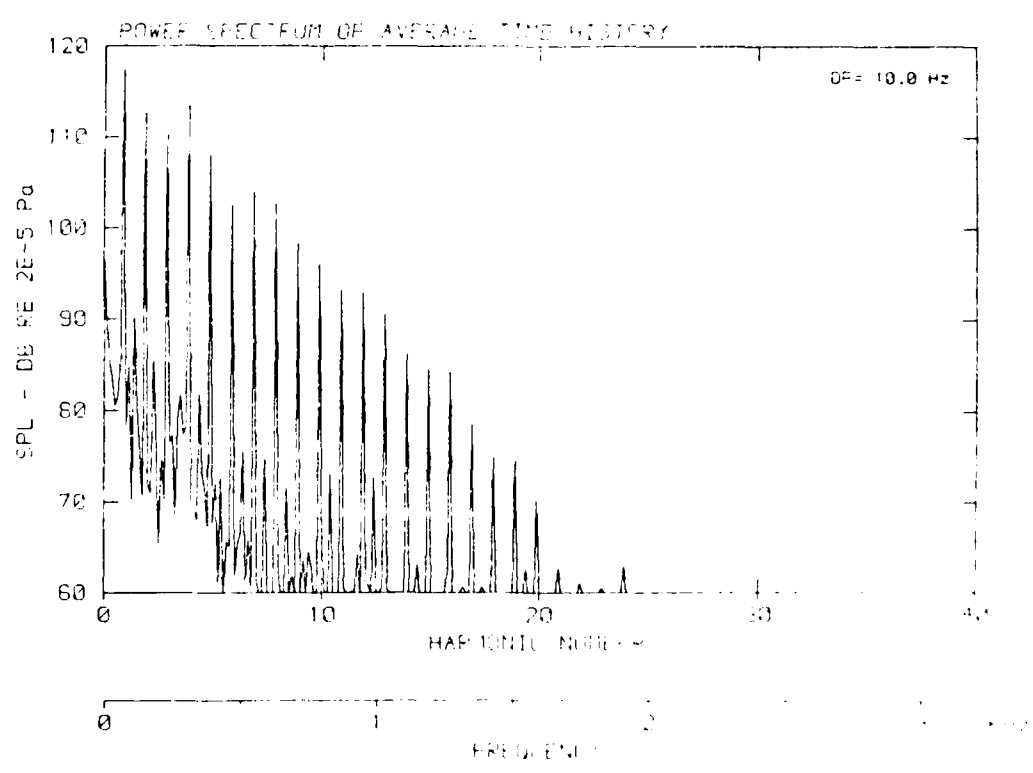
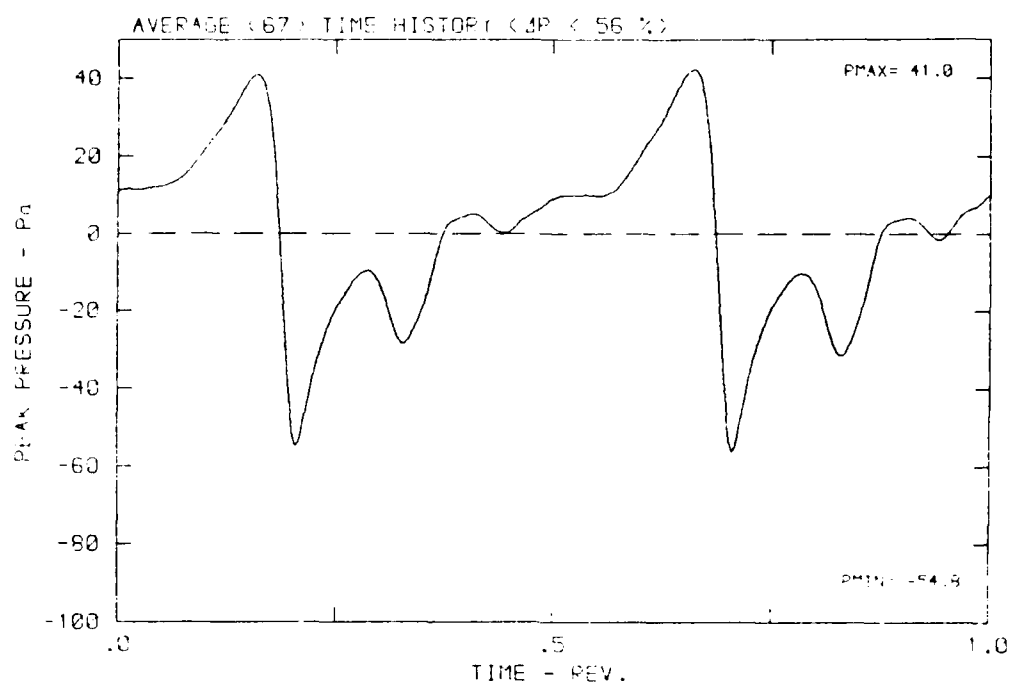
DATA POINT: CC-5 P-N: 12 NP: 5

β : 24.4° RH: .7738 n: 2400 rpm μ : .025 ϕ : .10° T: 299.7 K



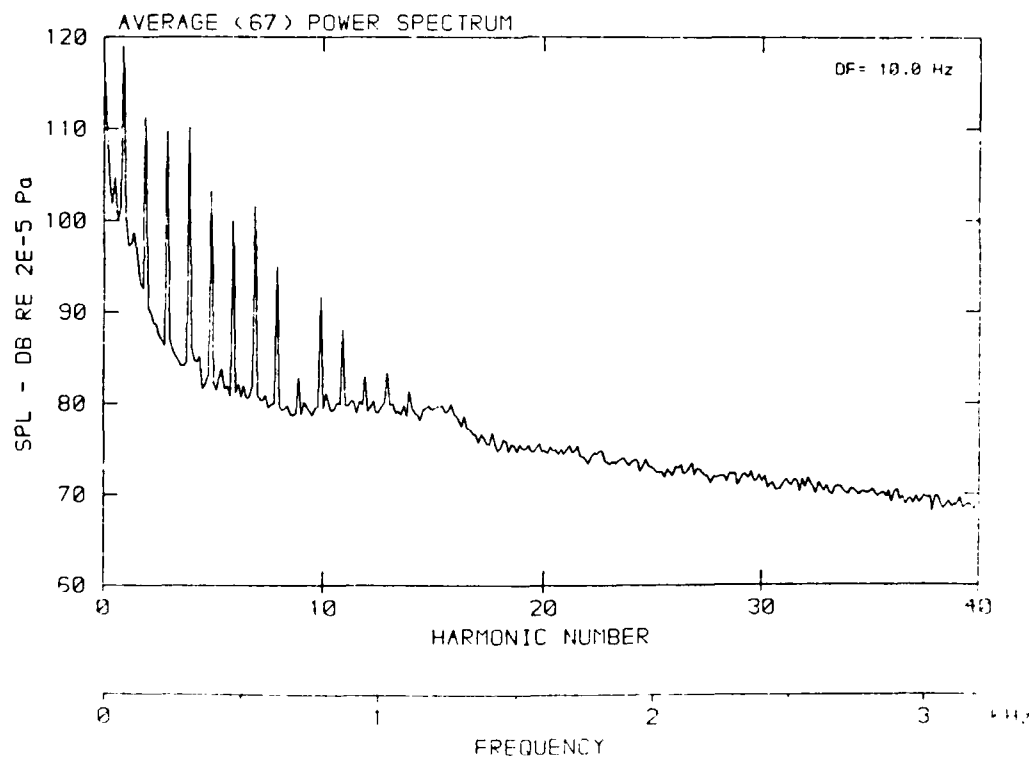
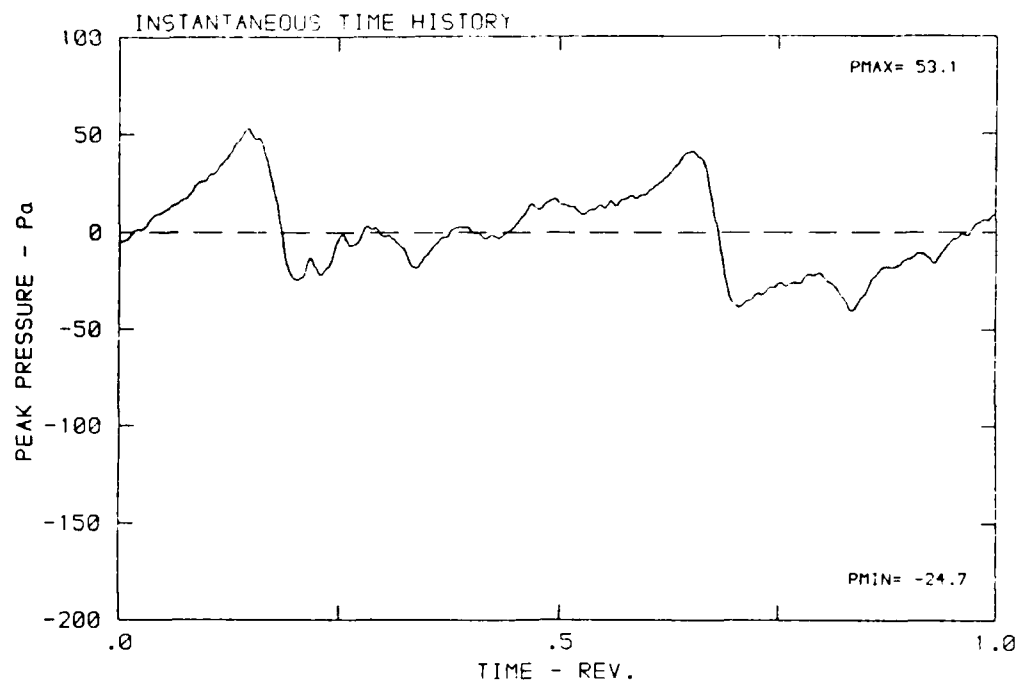
DATA POINT: CC-5 RUN: 123 MP: 5

β : 24.4° MH: .7738 n: 2400 rpm v/u : .263 ϕ : .0° T: 289.7 K



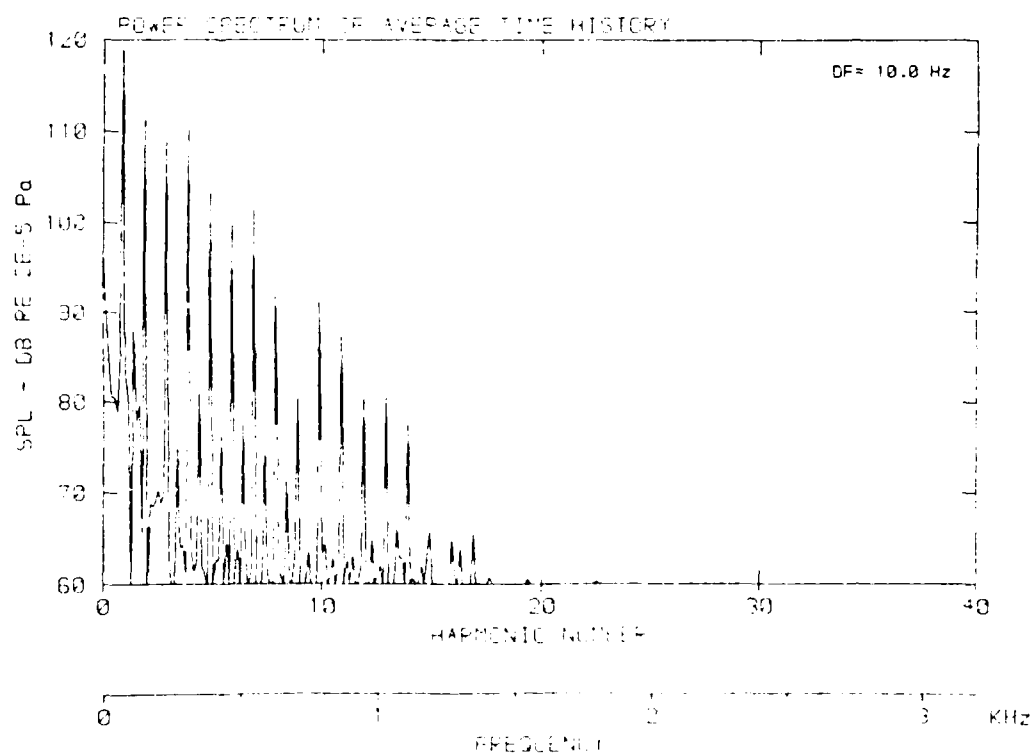
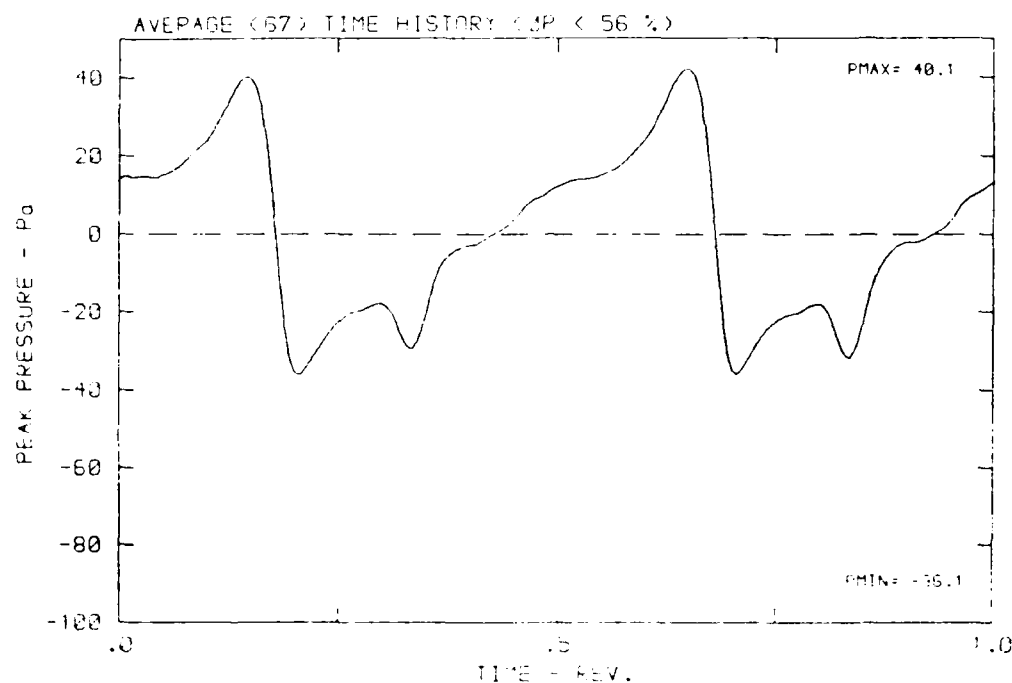
DATA POINT: CC-5 RUN: 123 MP: 6

β : 24.4° MH: .7738 n: 2400 rpm v/u : .263 ϕ : .0° T: 289.7 K



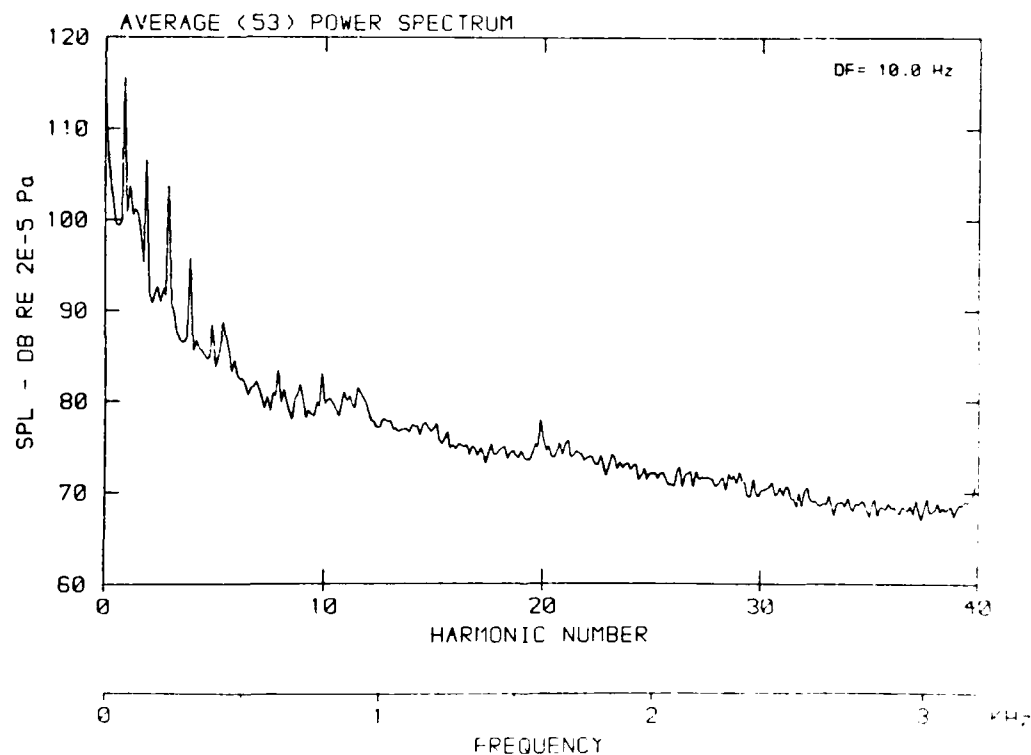
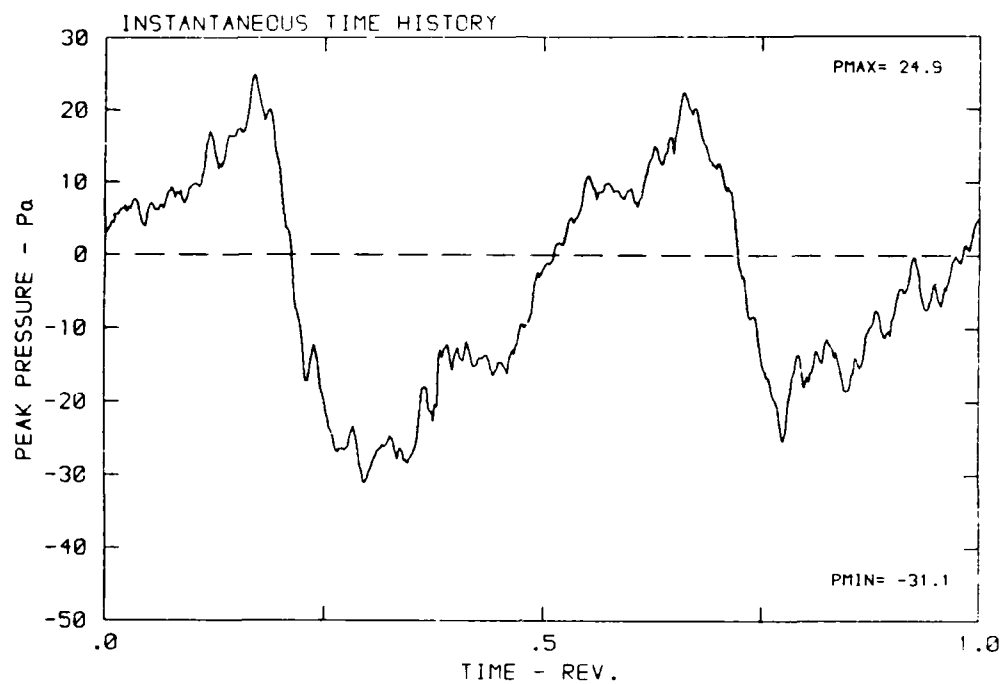
DATA POINT: CC-5 RUN: 123 MP: 6

β : 24.4° MH: .7738 n: 2400 rpm v/u : .263 ϕ : .0° T: 289.7 K



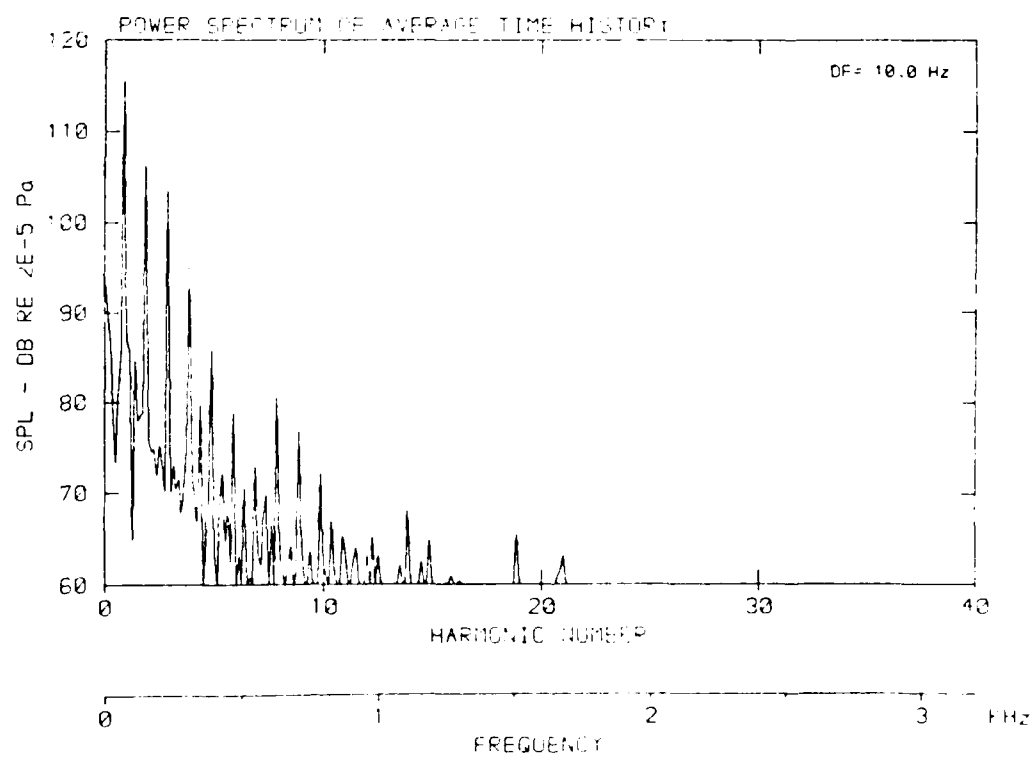
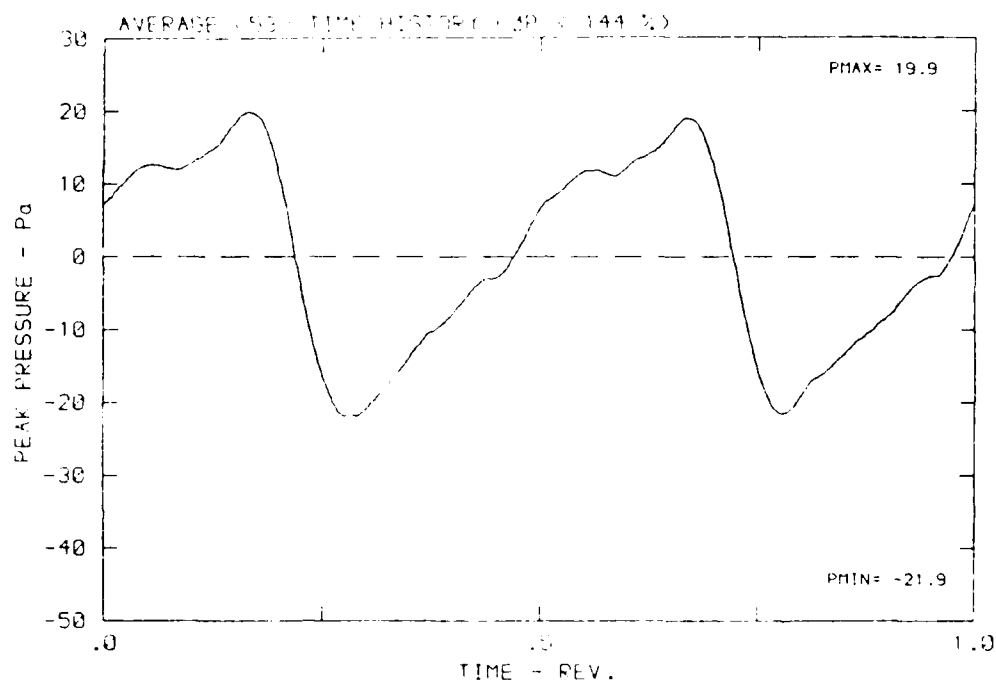
DATA POINT: CC-5 RUN: 123 MF: 7

β : 24.4° MH: .7738 n: 2400 rpm v/u: .263 ϕ : .0° T: 289.7 K



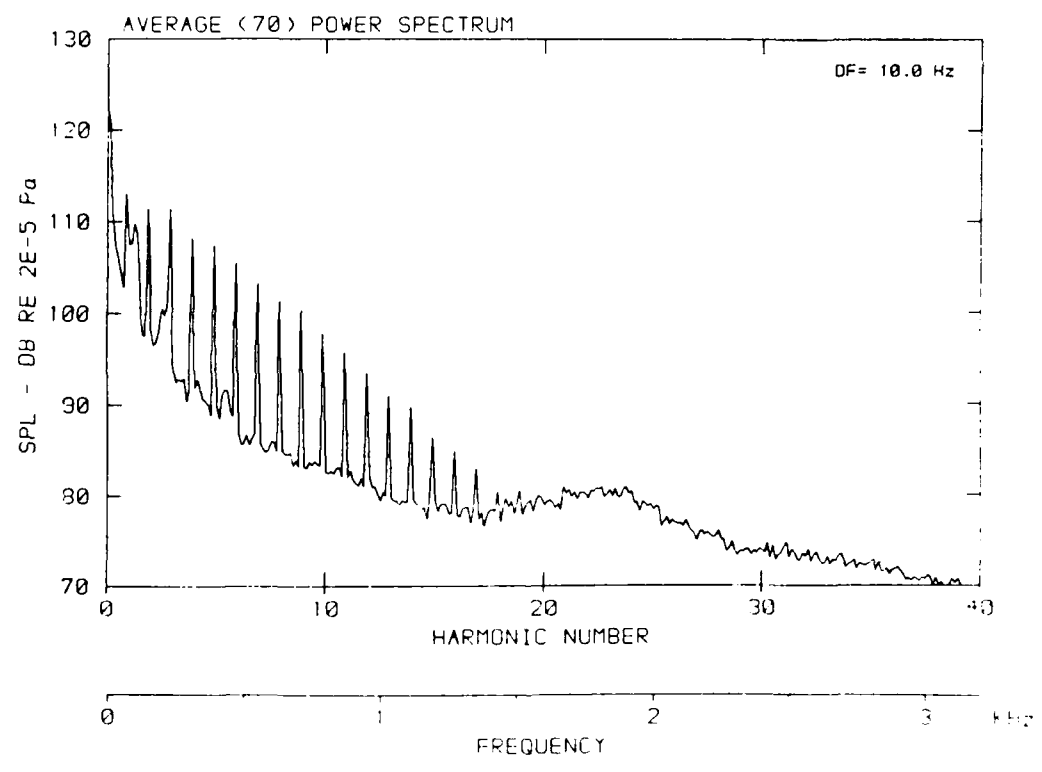
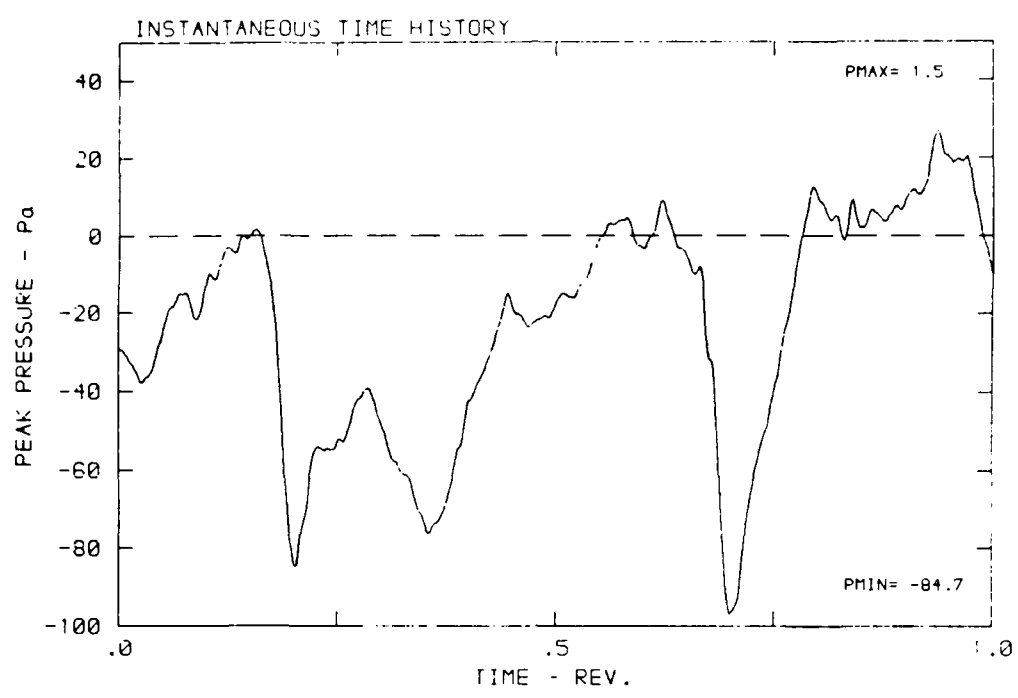
DATA POINT: 10-5 RUN: 123 MP: 7

β : 24.4° MH: .7738 α : 2400 rpm ν : .263 ϕ : .0° T: 289.7 K



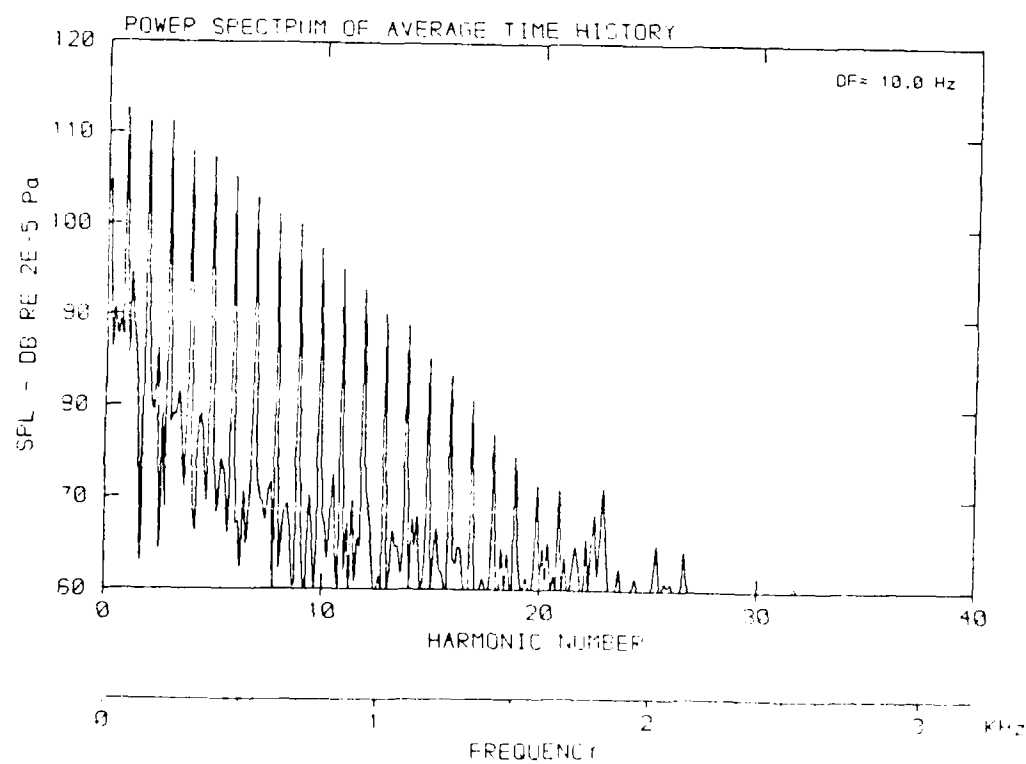
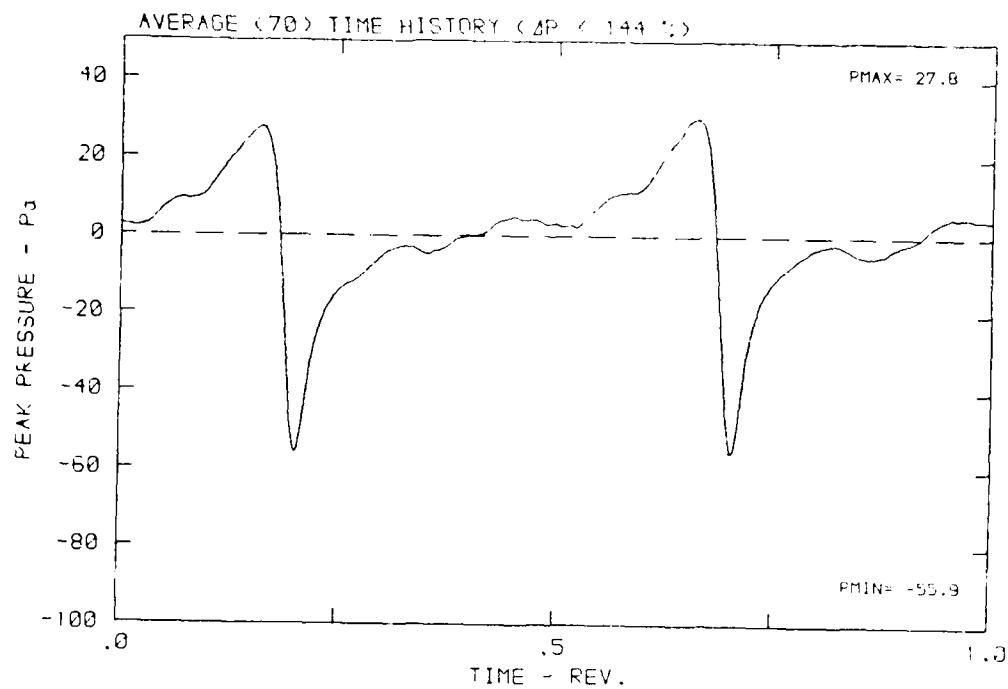
DATA POINT: CC-5 RUN: 123 MP: 3

β : 24.4° MH: .7738 n: 2400 rpm v_{ro}: .263 ϕ : .0° T: 389.7 K



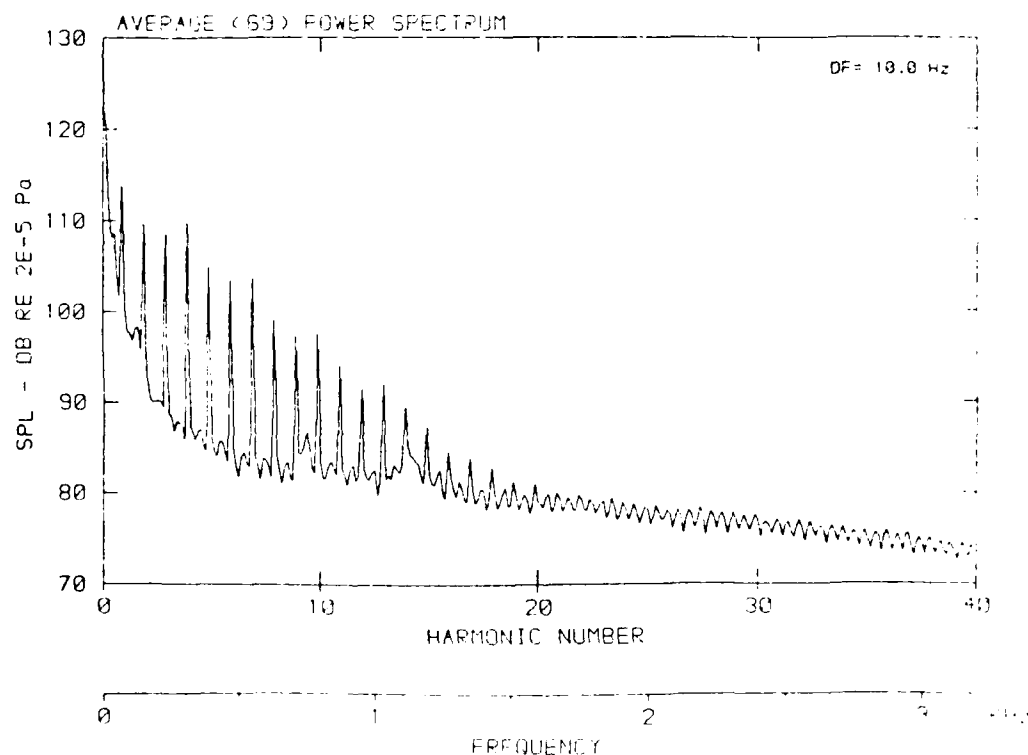
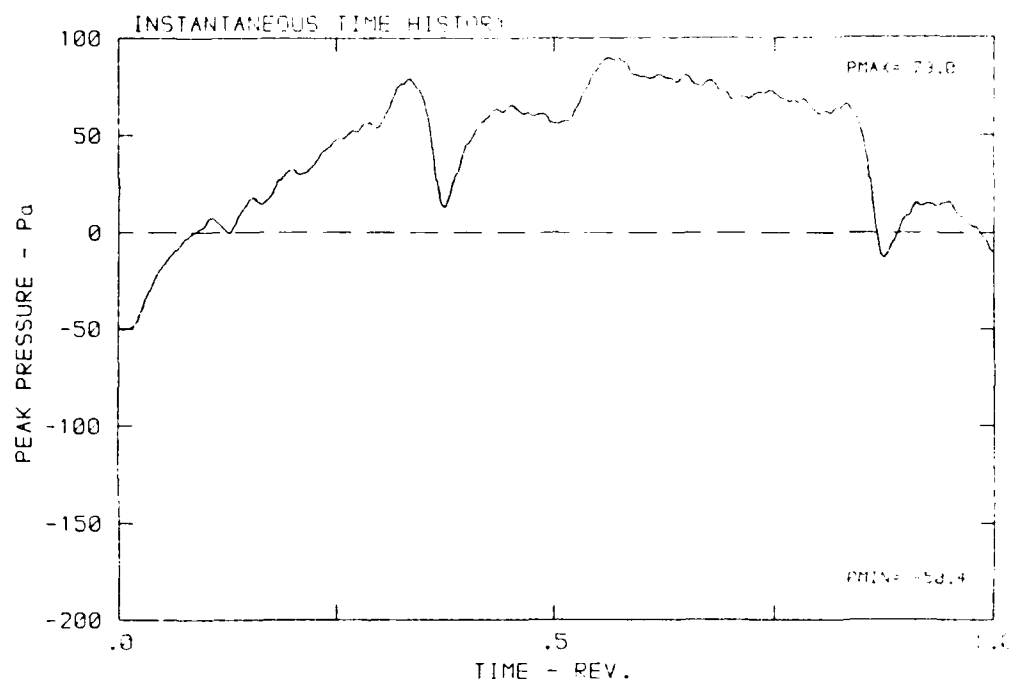
DATA POINT : CC-5 RUN : 123 MP : 8

β : 24.4° MH : .7738 n : 2400 rpm v/u : .263 ϕ : .0° T : 289.7 K



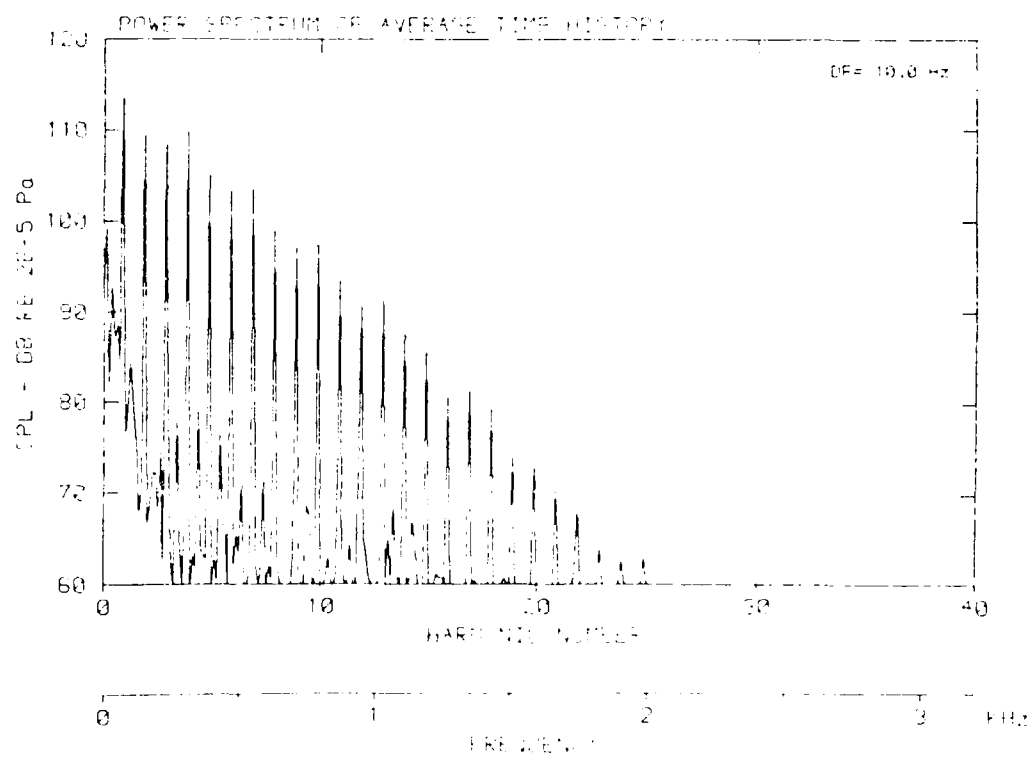
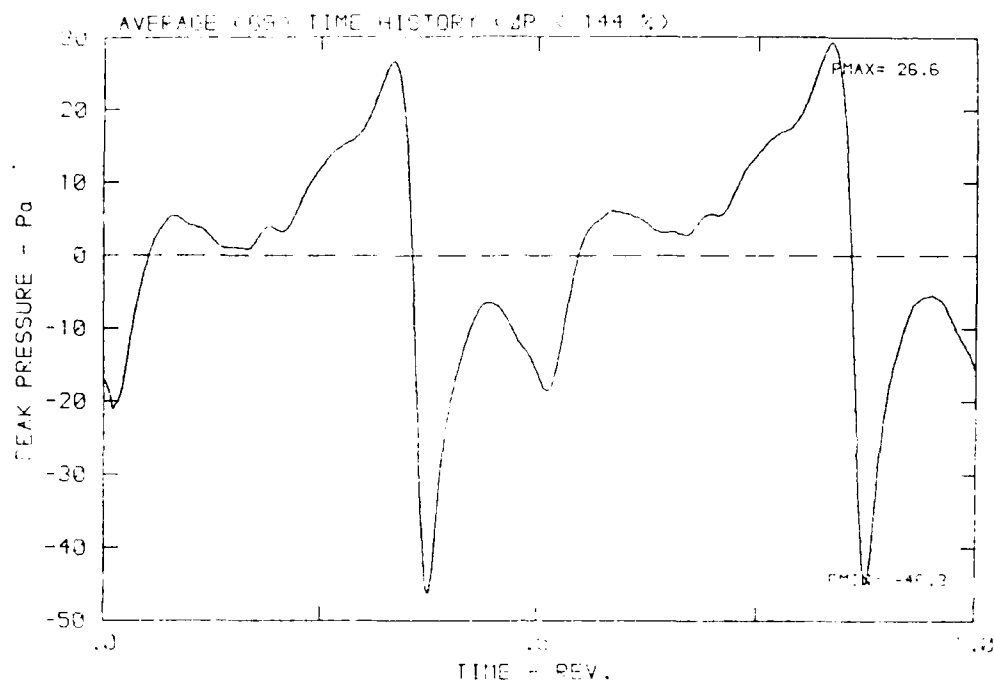
DATA POINT: CC-5 RUN: 123 MP: 9

β : 24.4° MH: .7738 n: 2400 rpm U: .083 p: .02 T: 250.0 °K



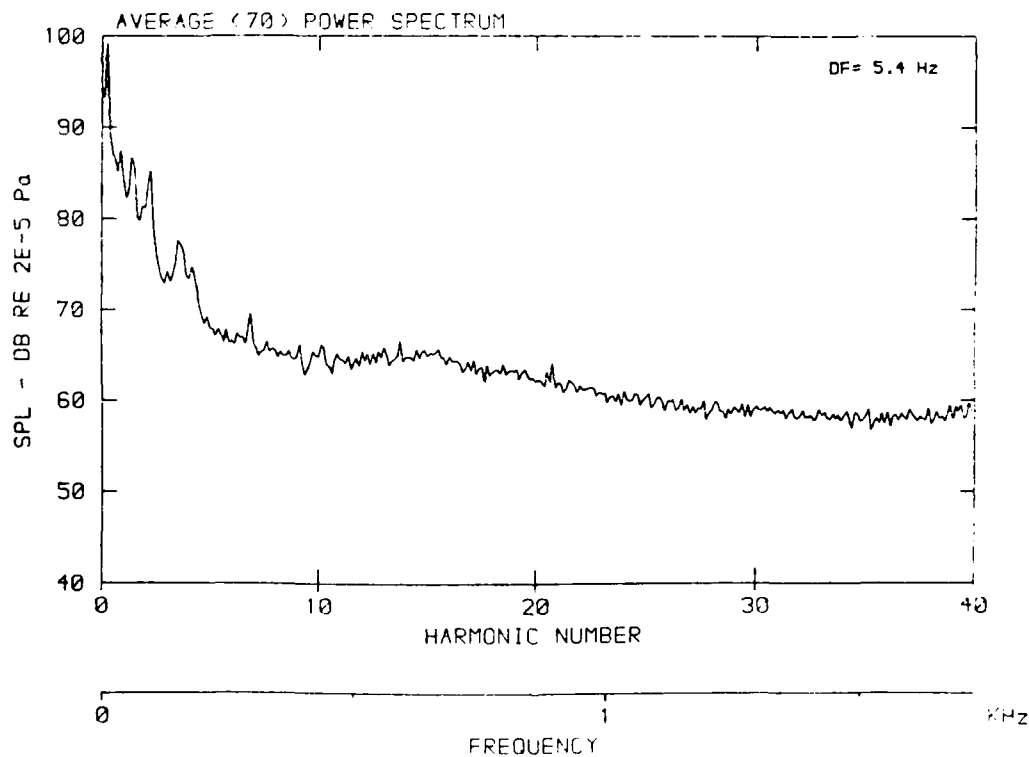
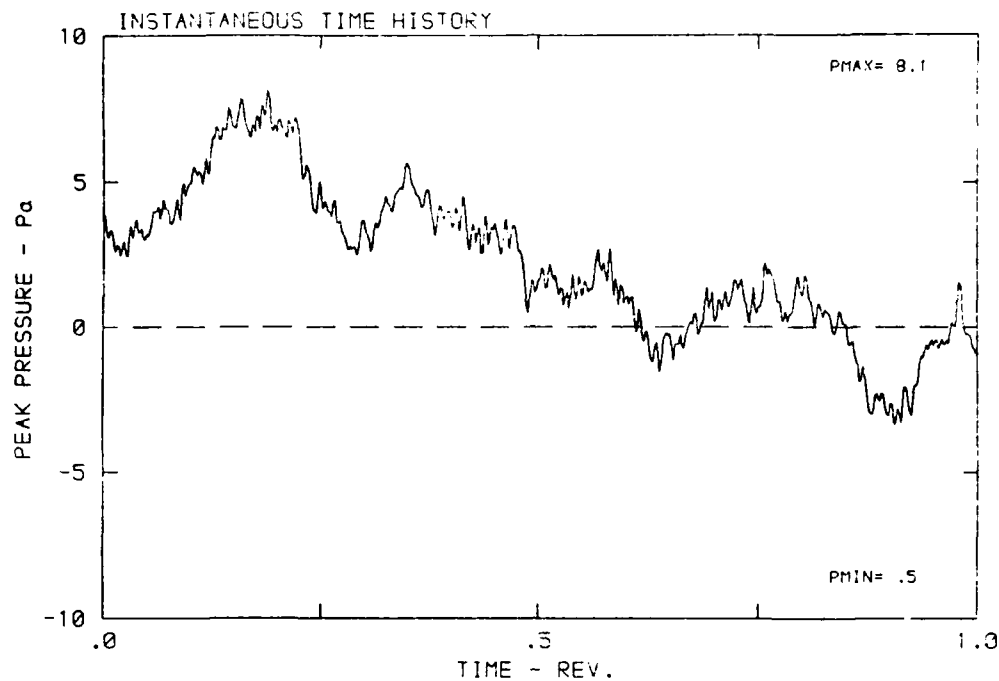
DATA POINT: CC-5 RUN: 123 MP: 9

β : 24.4° MH: .7738 n: 2400 rpm v/u : .263 ϕ : .0° T: 289.7 K



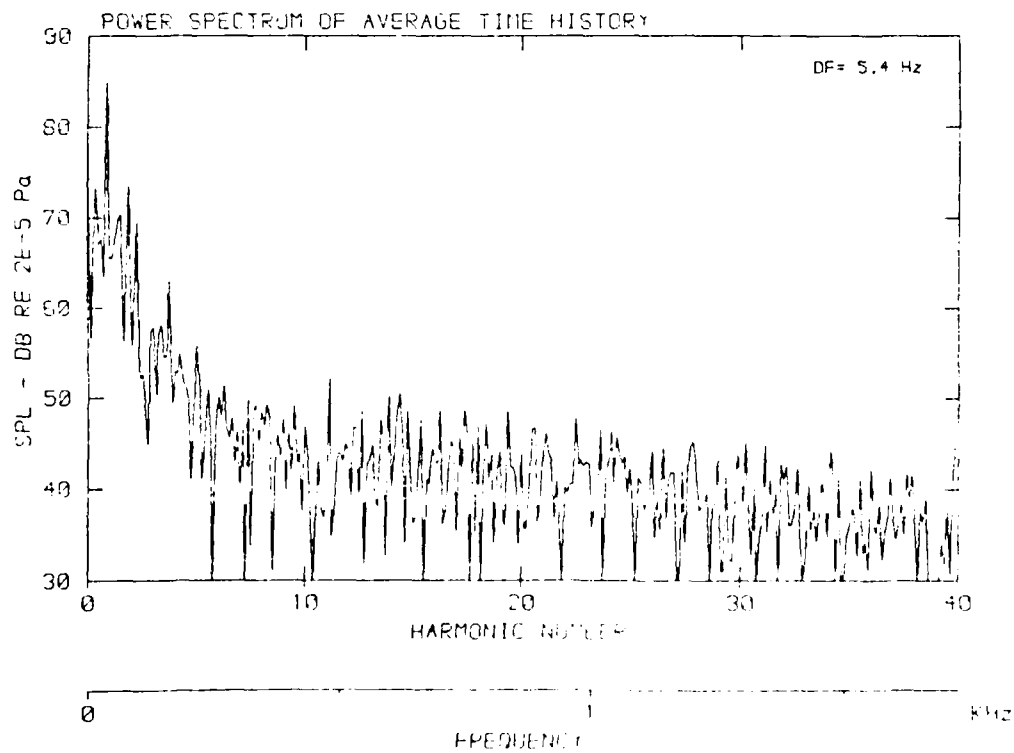
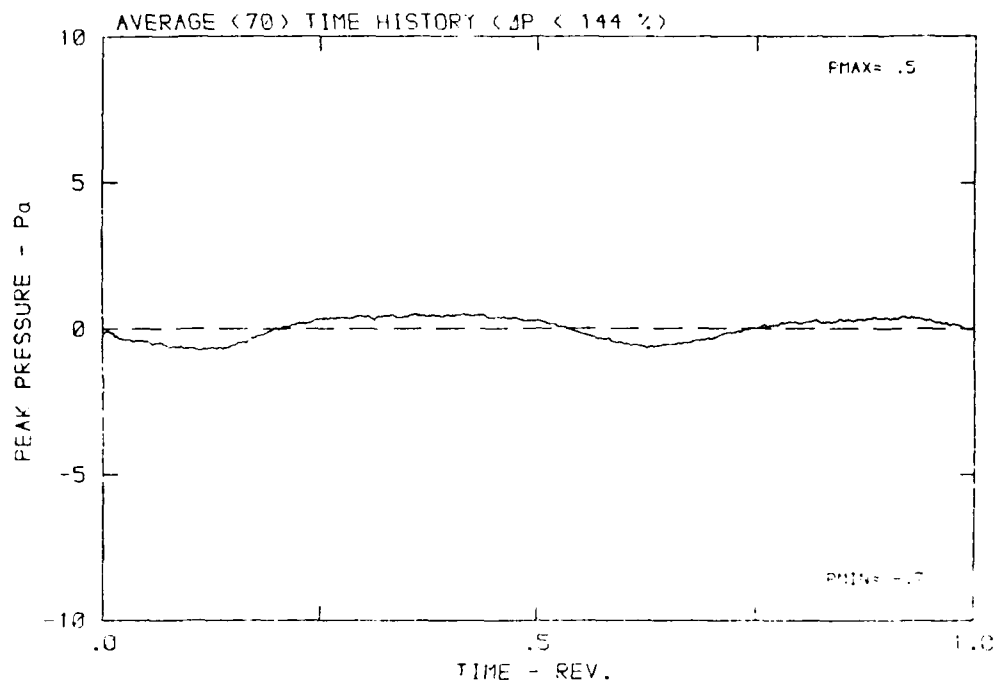
DATA POINT : CC-6 RUN : 122 MP : 1

β : 24.4° MH: .4315 n: 1294 rpm v/u : .375 ϕ : .0° T: 288.8 K



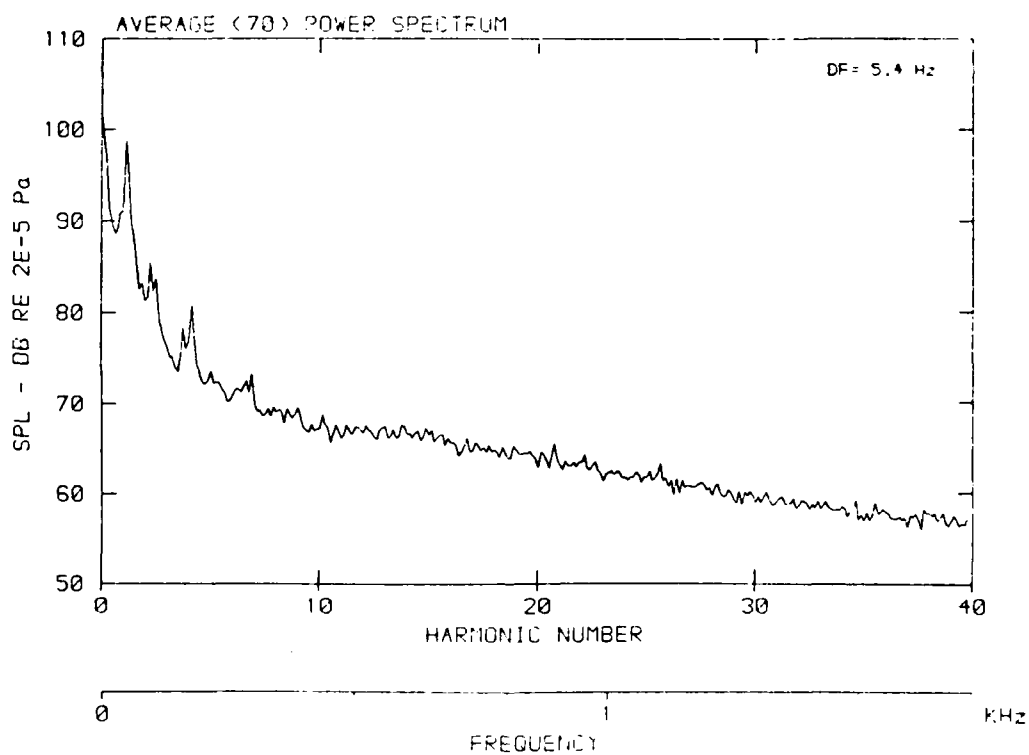
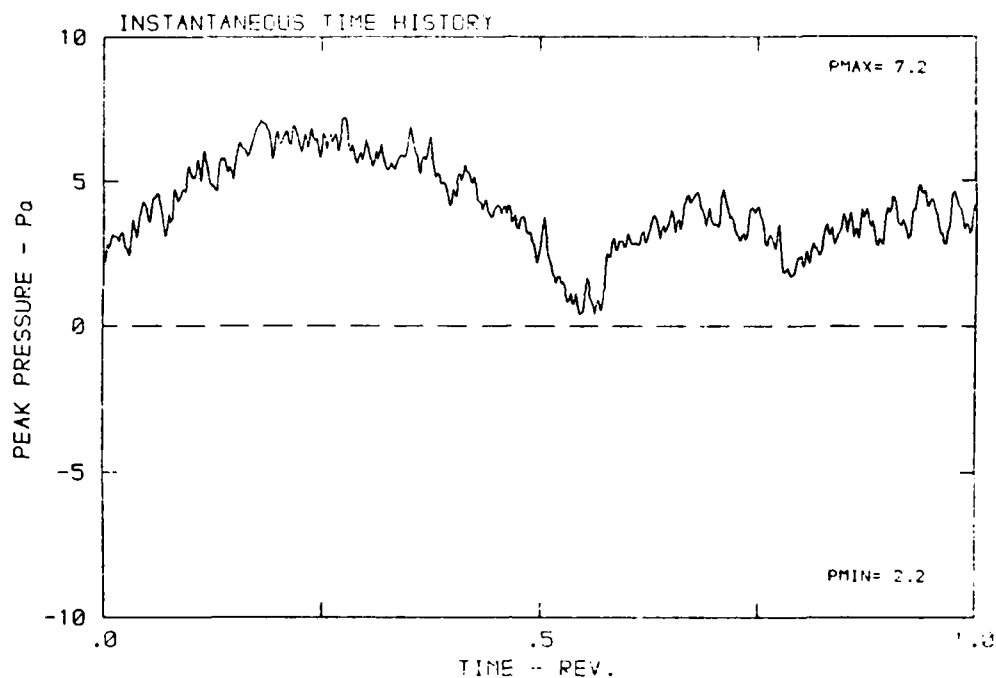
DATA POINT: CC-6 RUN: 122 MP: 1

β : 24.4° MH: .4315 n: 1294 rpm v/u : .375 ϕ : .0° T: 288.8 K



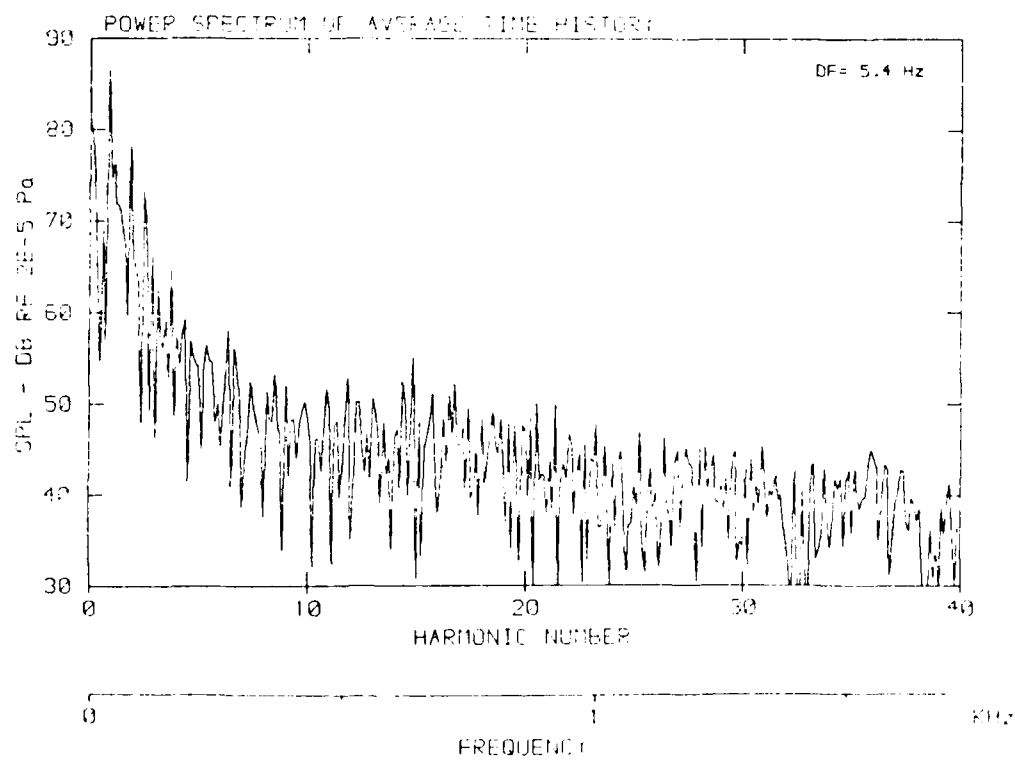
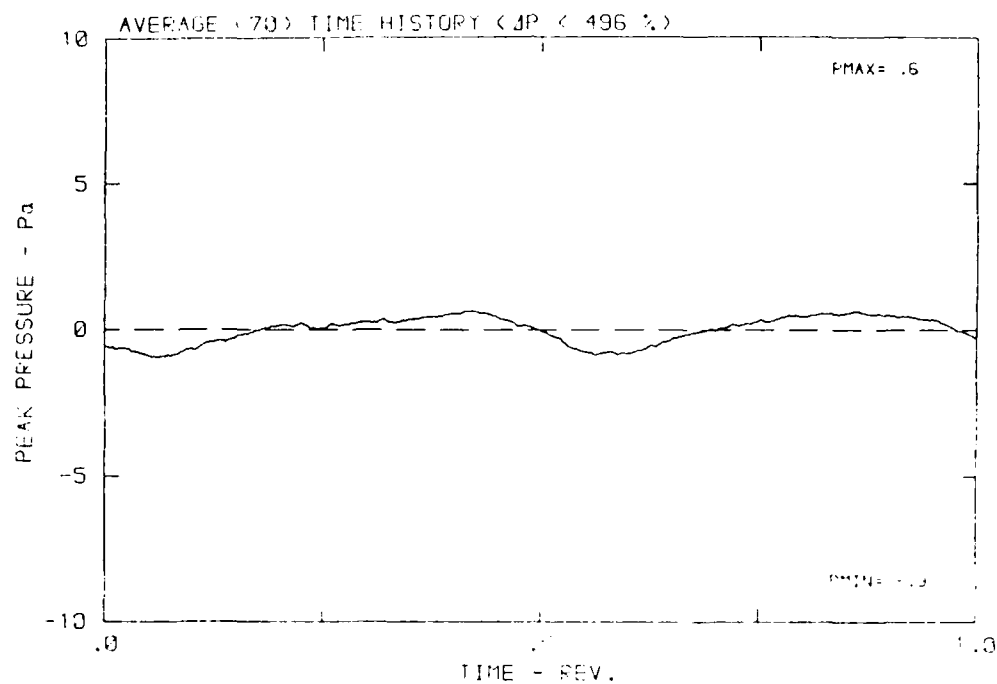
DATA POINT: CC-6 RUN: 122 MP: 2

β : 24.4° MH: .4315 n: 1294 rpm ν : .375 ϕ : .0° T: 288.8 K



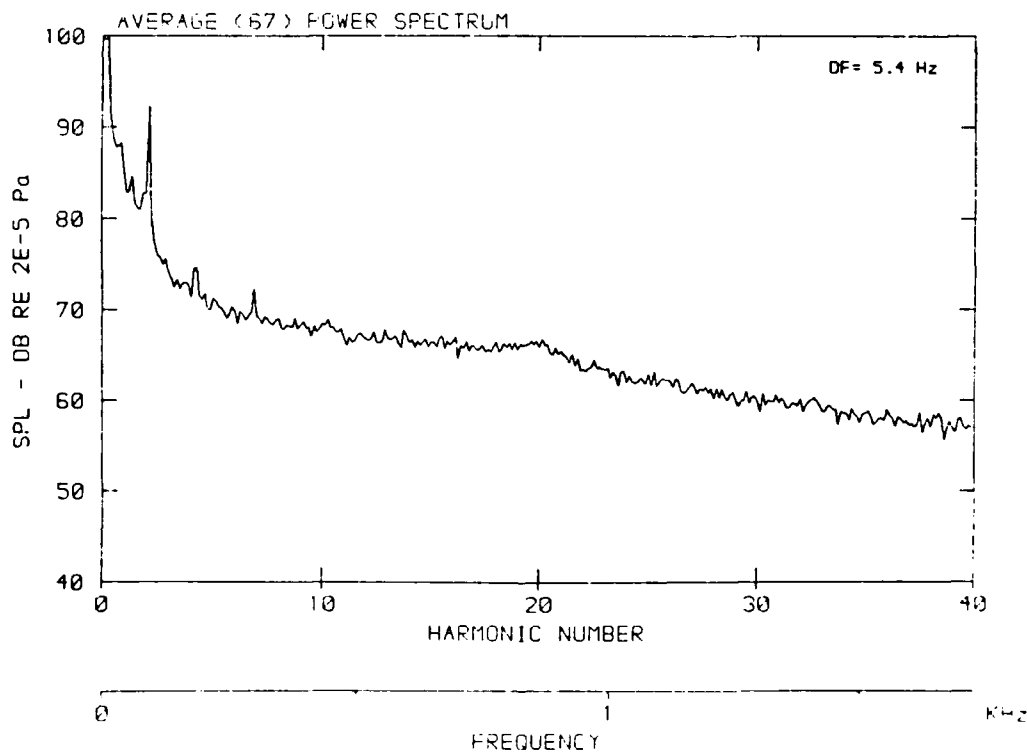
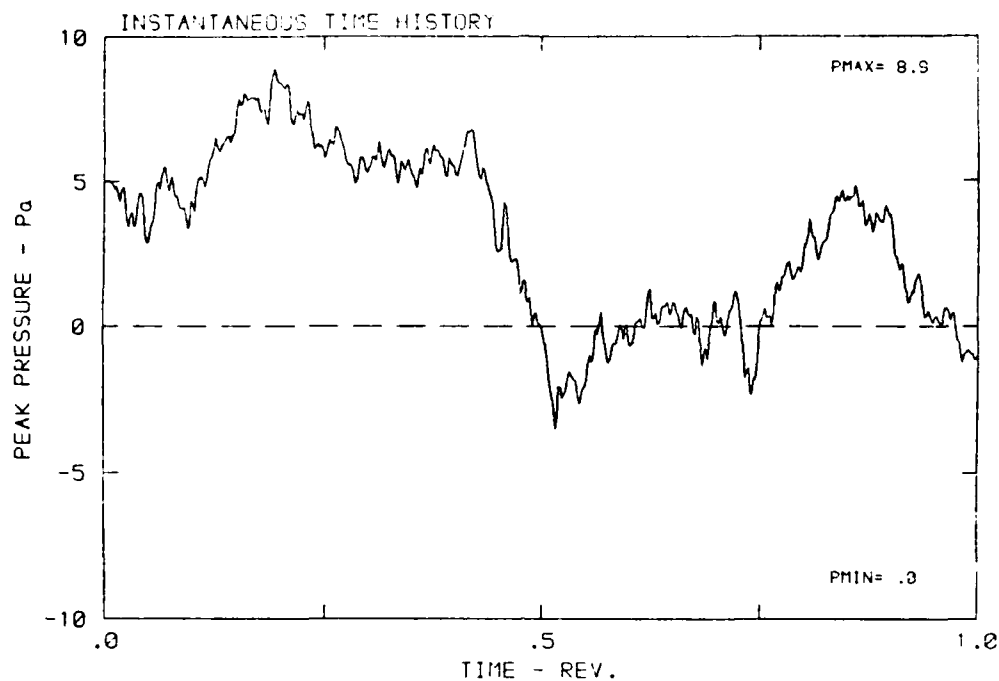
DATA POINT: 10-6 RUN: 122 MP: 2

β : 24.4° MH: .4315 n: 1294 rpm v/u : .375 ϕ : .0° T: 298.8 K



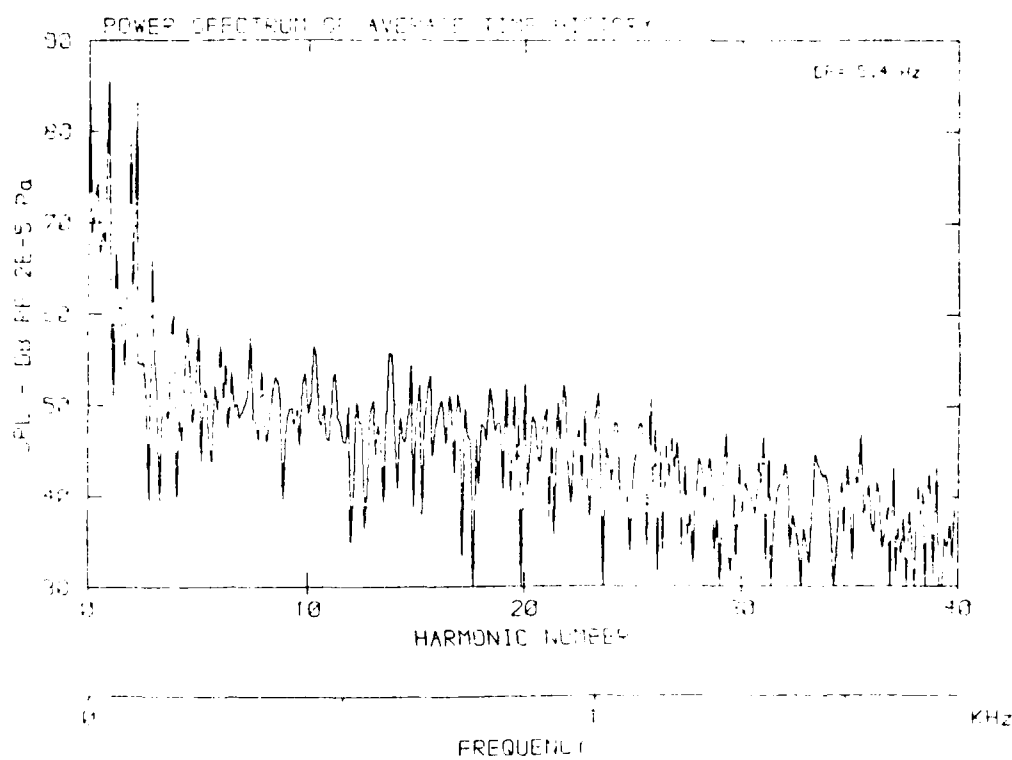
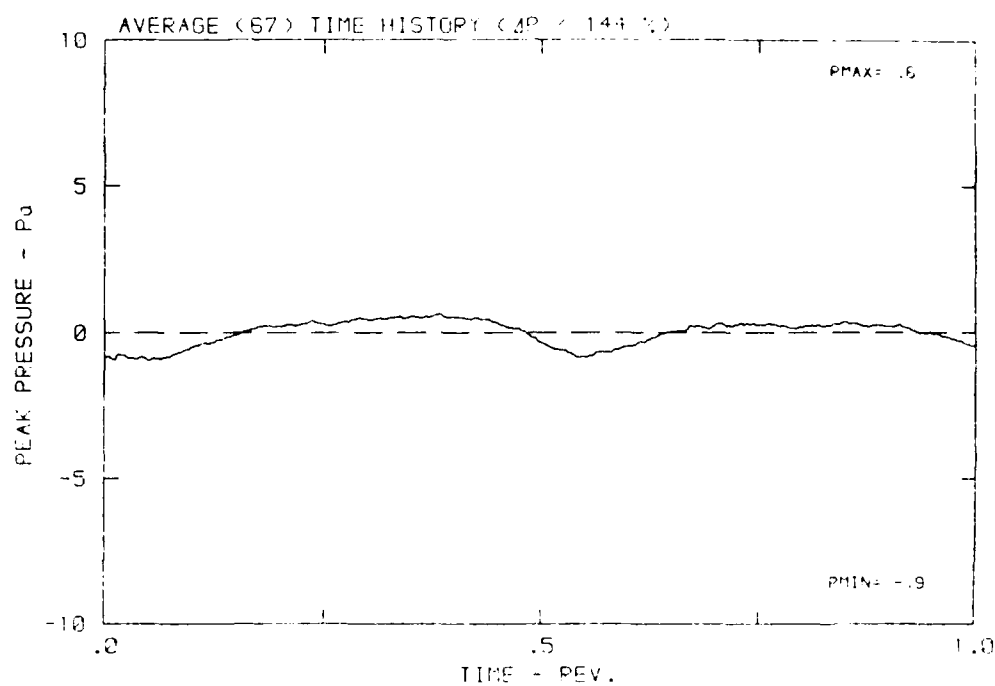
DATA POINT: CC-S RUN: 100 MP: 3

β : 24.4° MH: .4315 n: 1294 rpm χ_u : .375 ϕ : .0° T: 288.3 K



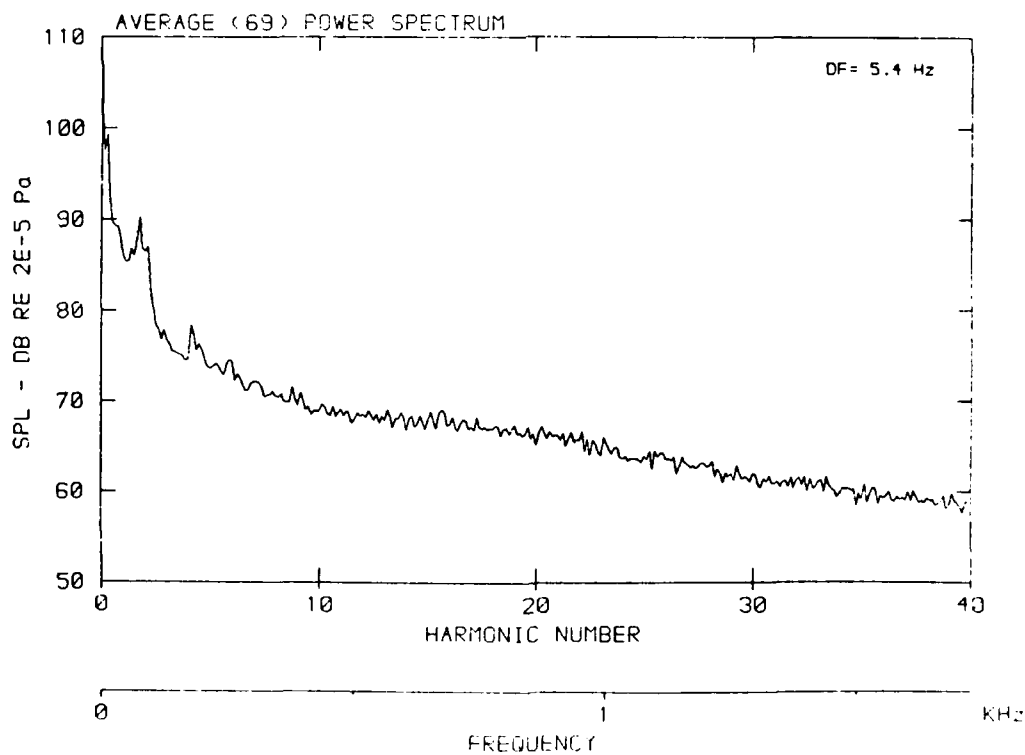
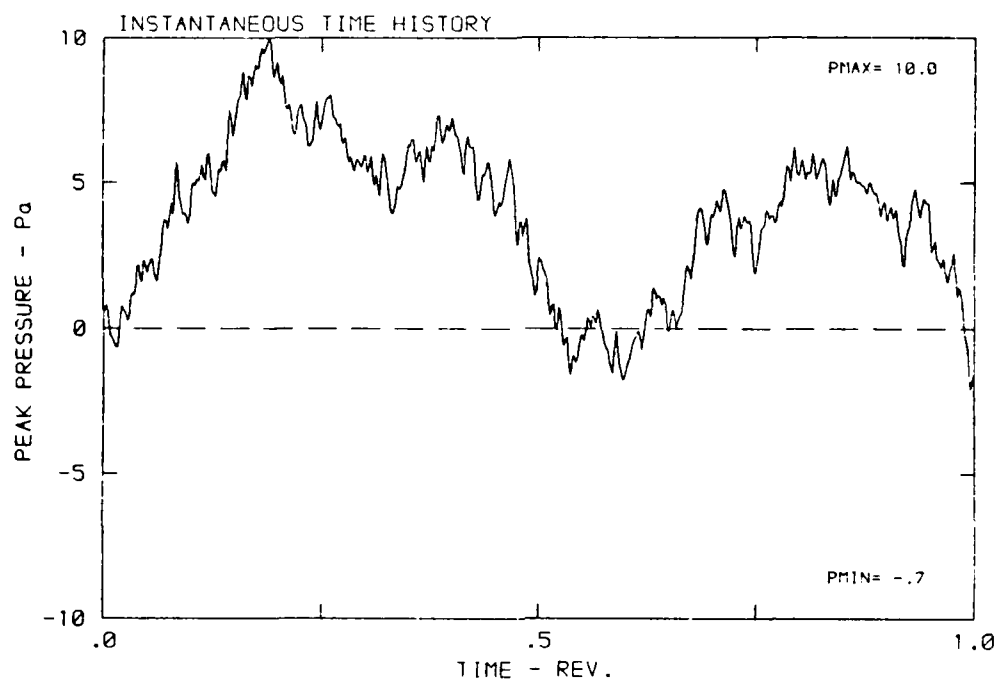
DATA POINT: CC-6 RUN: 122 MP: 3

β : 24.4° MH: .4315 n: 1294 rpm ν : .375 ϕ : .0° T: 299.2



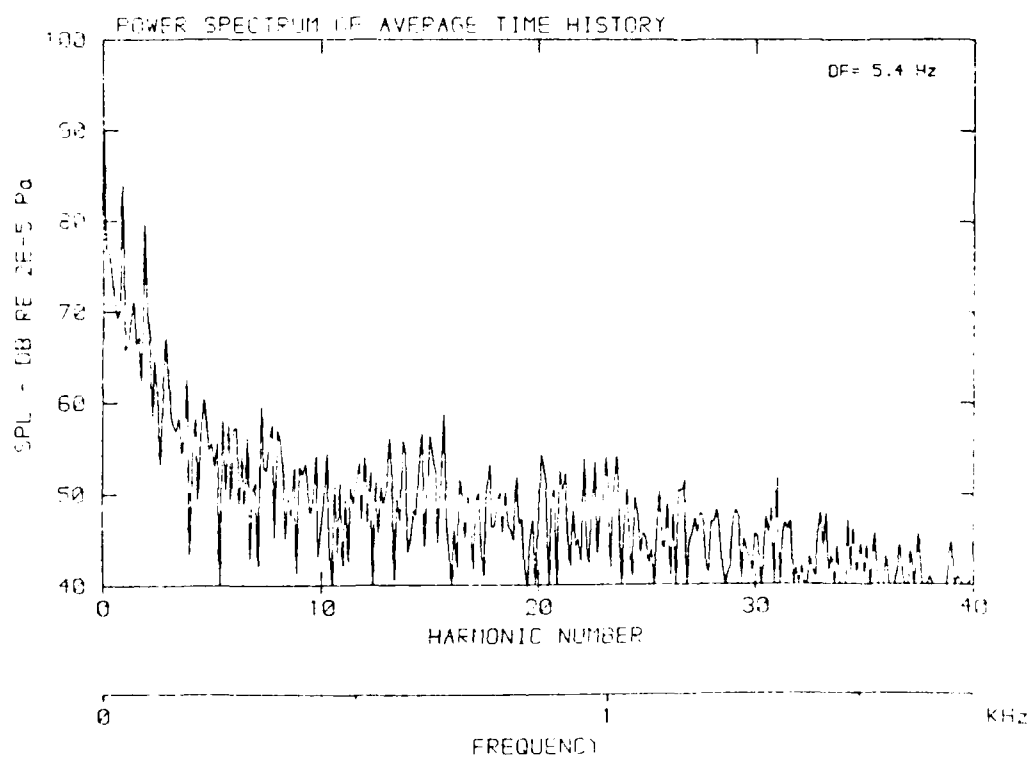
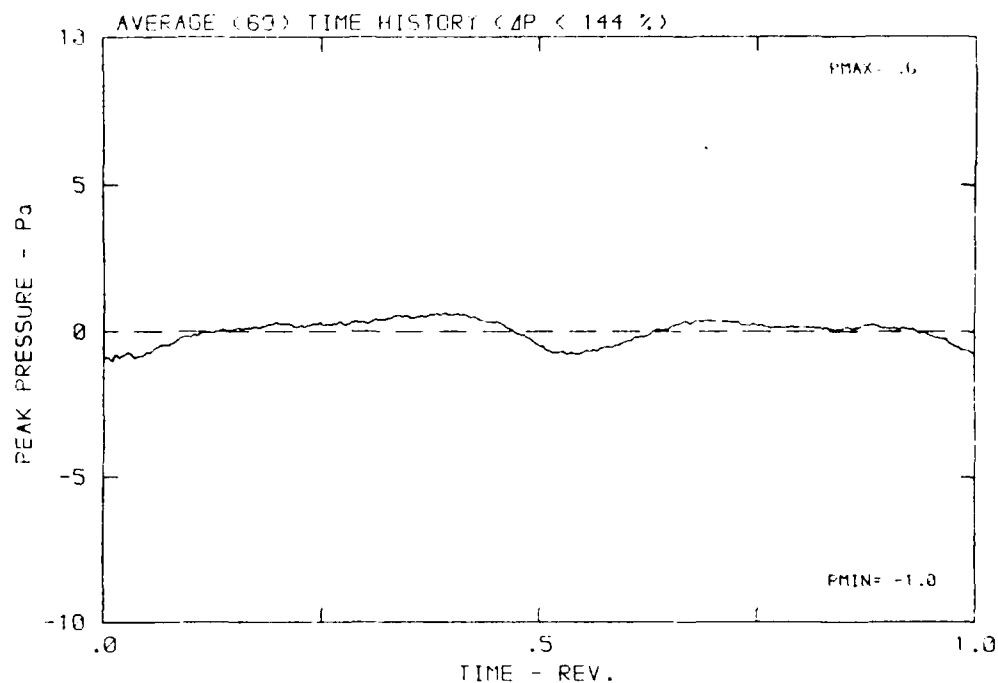
DATA POINT: CC-6 RUN: 122 MP: 4

β : 24.4° MH: .4315 n: 1294 rpm v/u : .375 ϕ : .0° T: 298.6 K



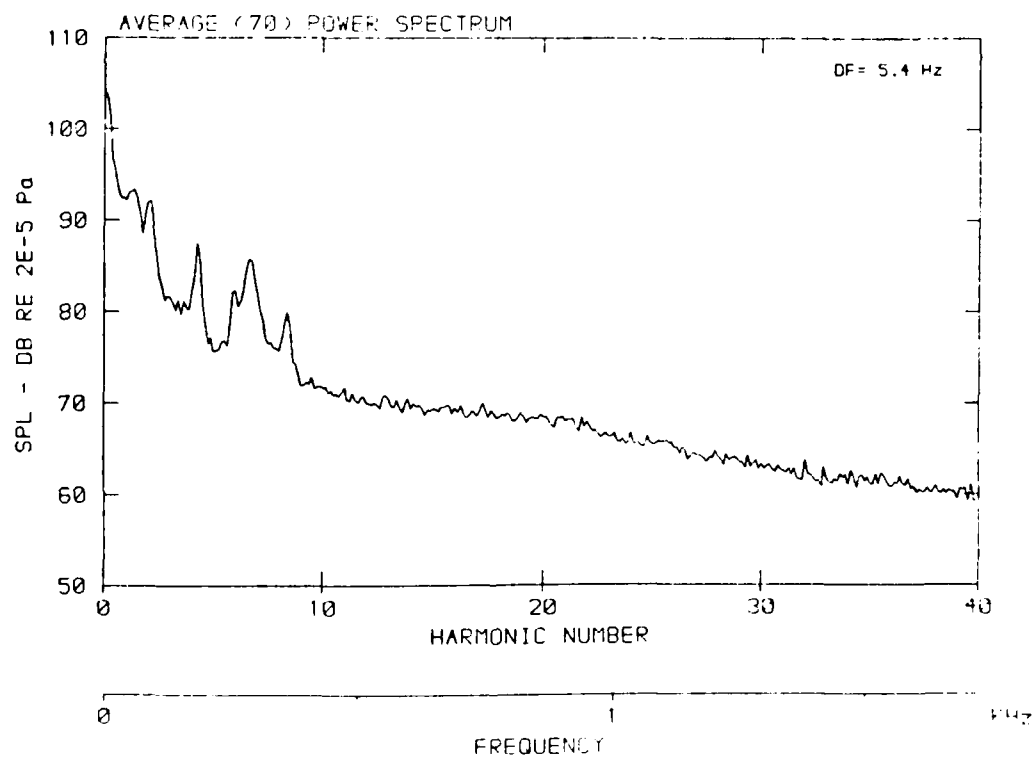
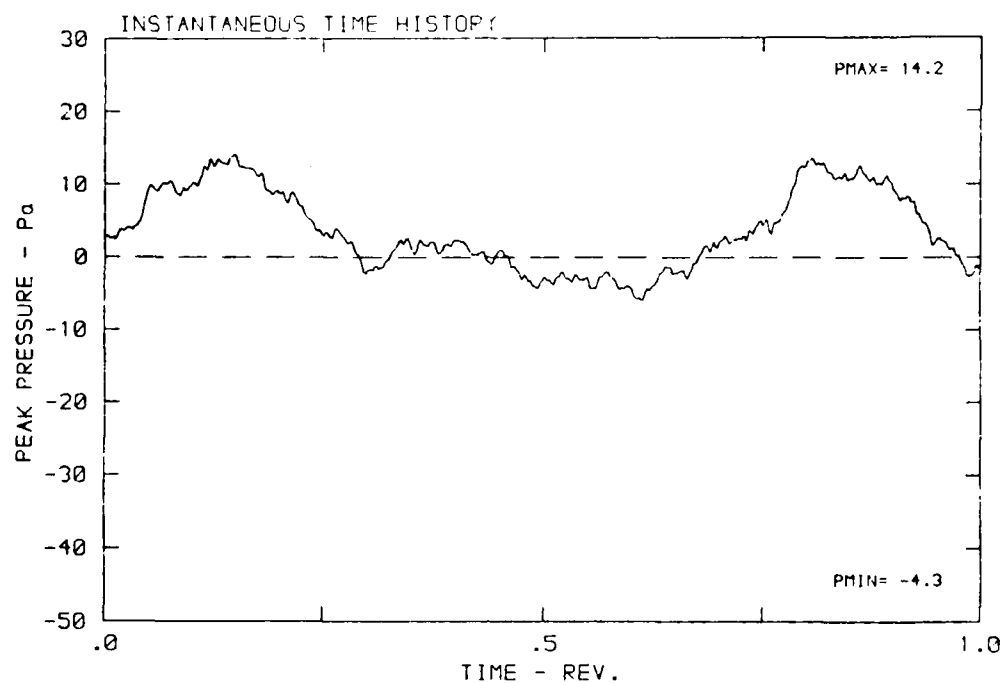
DATA POINT: 00-6 RUN: 122 MP: 4

β : 24.4° MH: .4315 n: 1294 rpm v/u: .375 ϕ : .0° T: 288.8 K



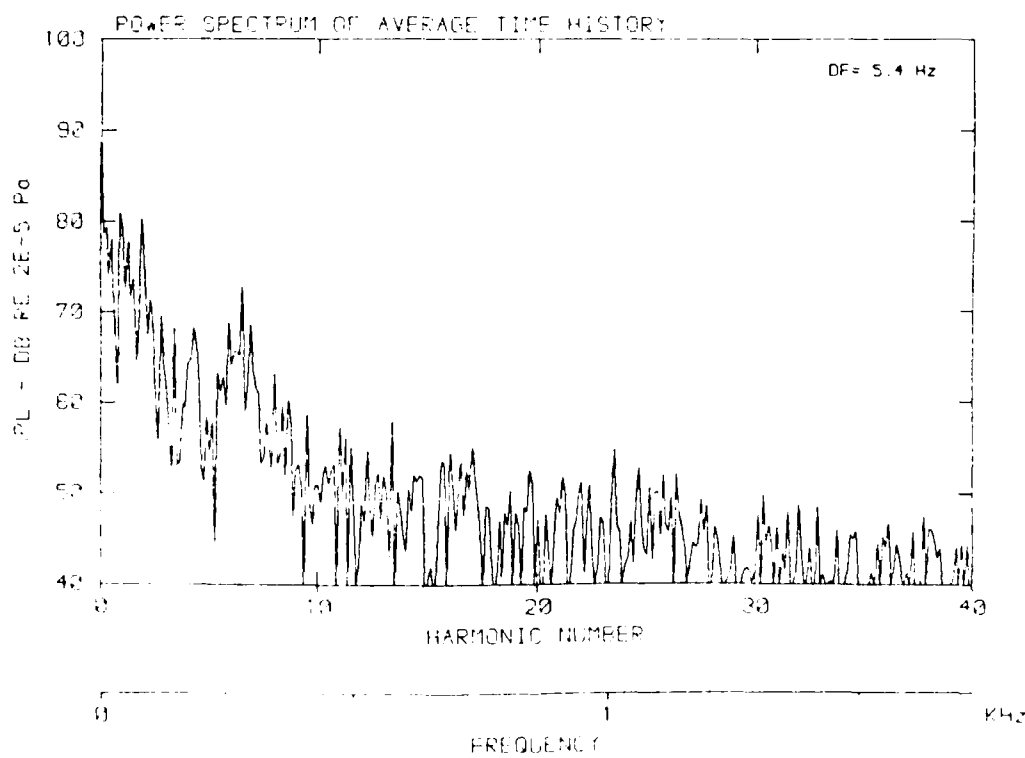
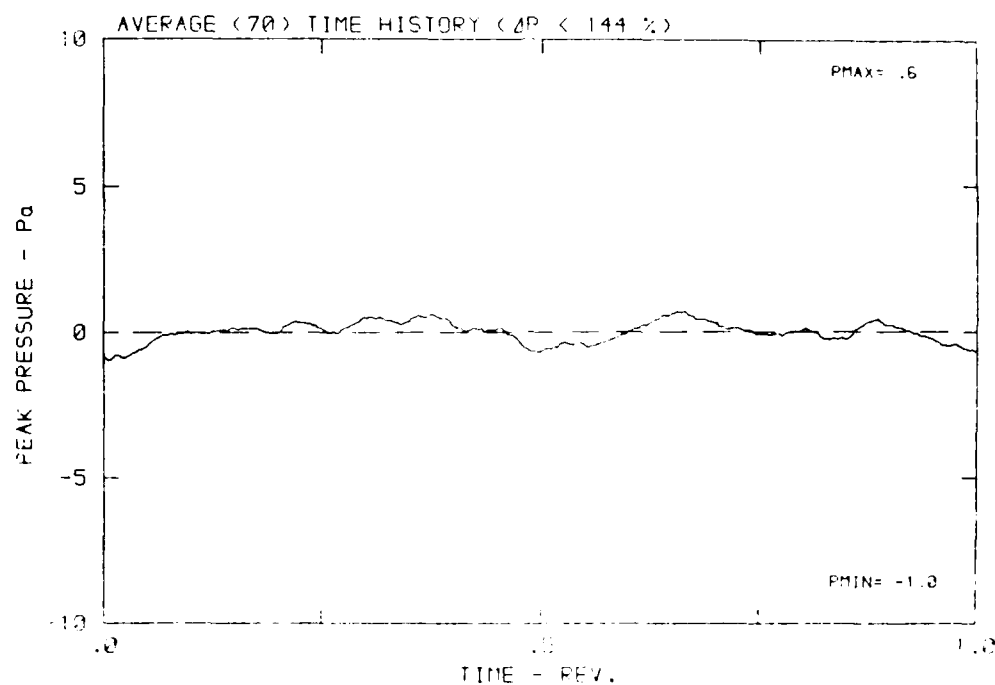
DATA POINT: CC-6 RUN: 122 MP: 5

β : 24.4° MH: .4315 n: 1294 rpm v/u : .375 ϕ : .0° T: 289.8 K



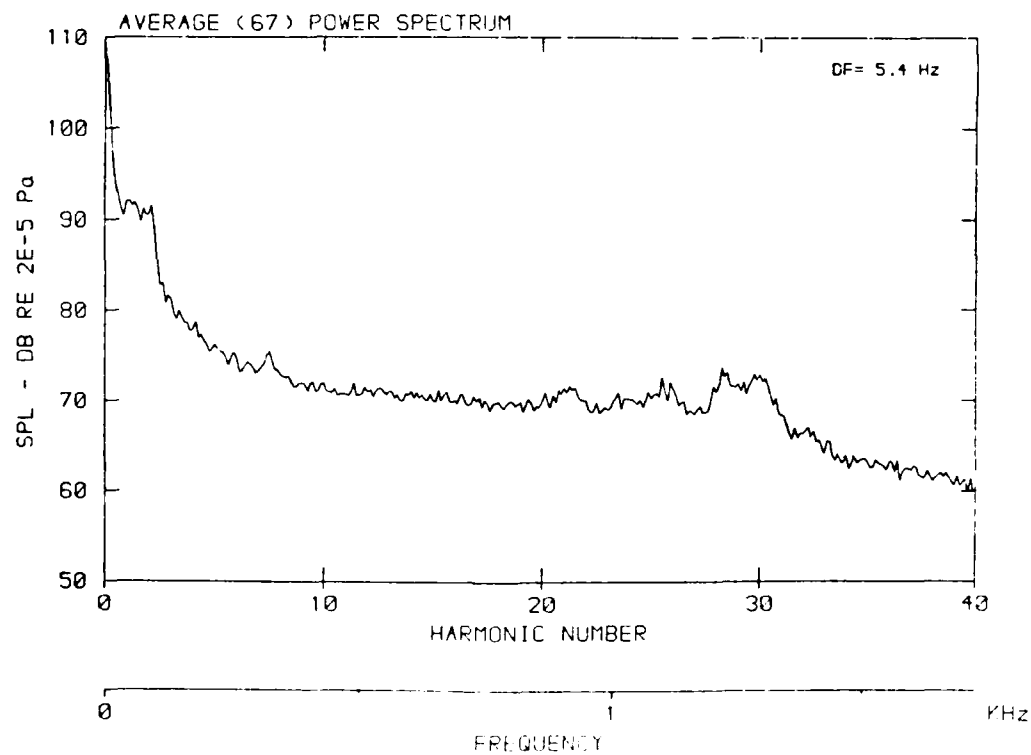
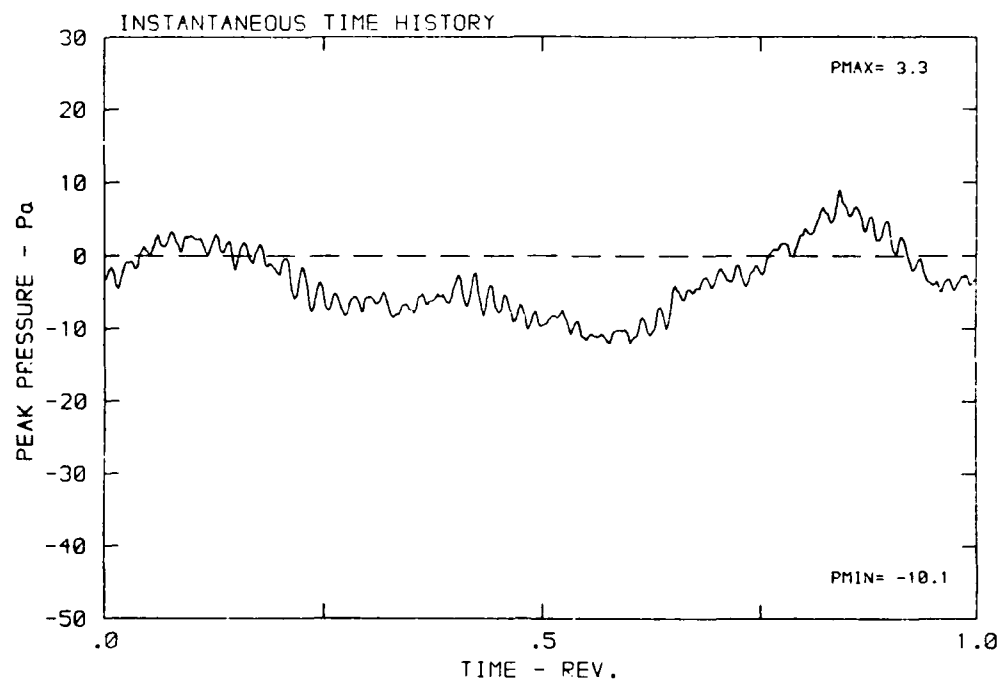
DATA POINT: CC-6 RUN: 122 MP: 5

β : 24.4° MH: .4315 n: 1294 rpm v/u : .375 ϕ : .0° T: 288.9 K



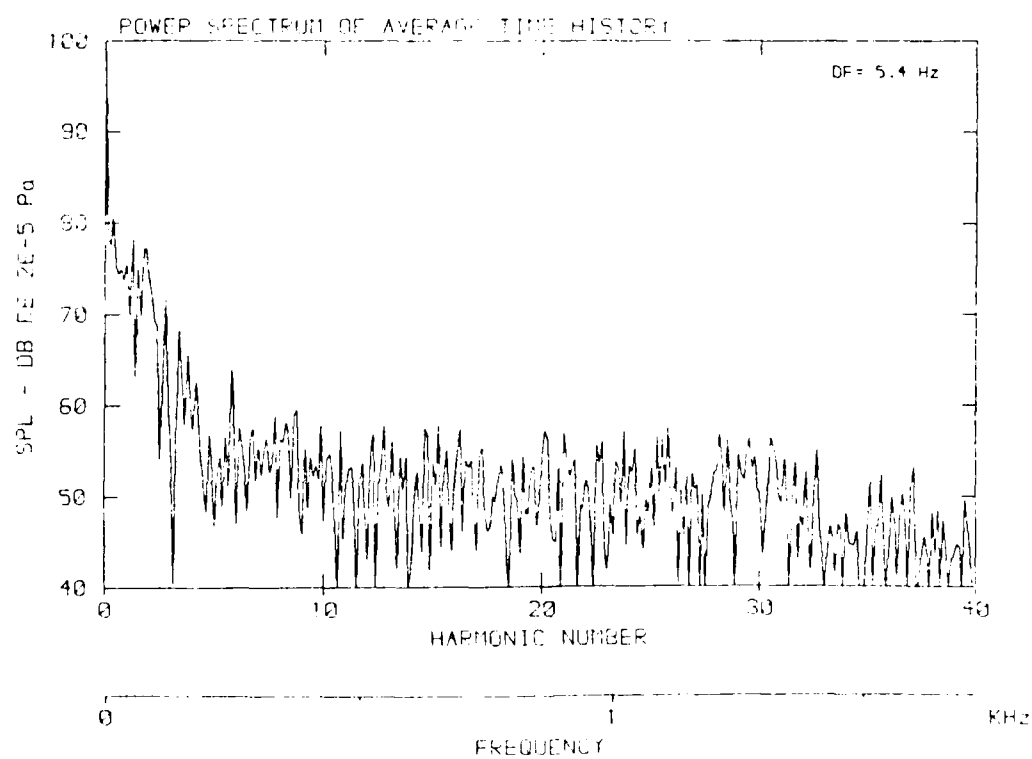
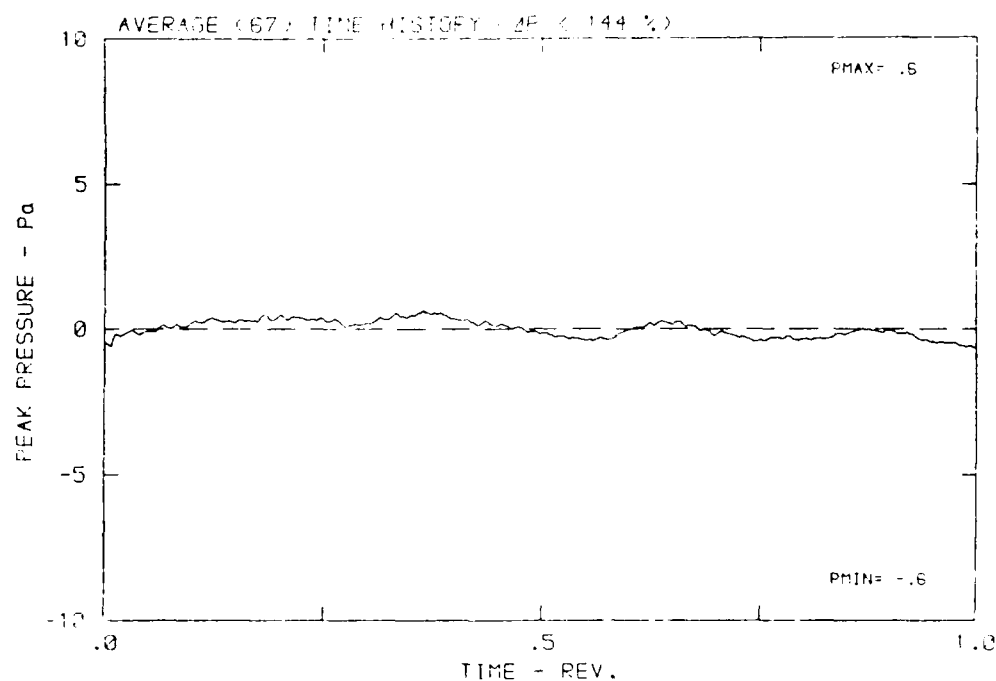
DATA POINT: CC-6 RUN: 122 MP: 6

β : 24.4° MH: .4315 n: 1294 rpm v/u: .375 ϕ : .0° T: 288.8 K



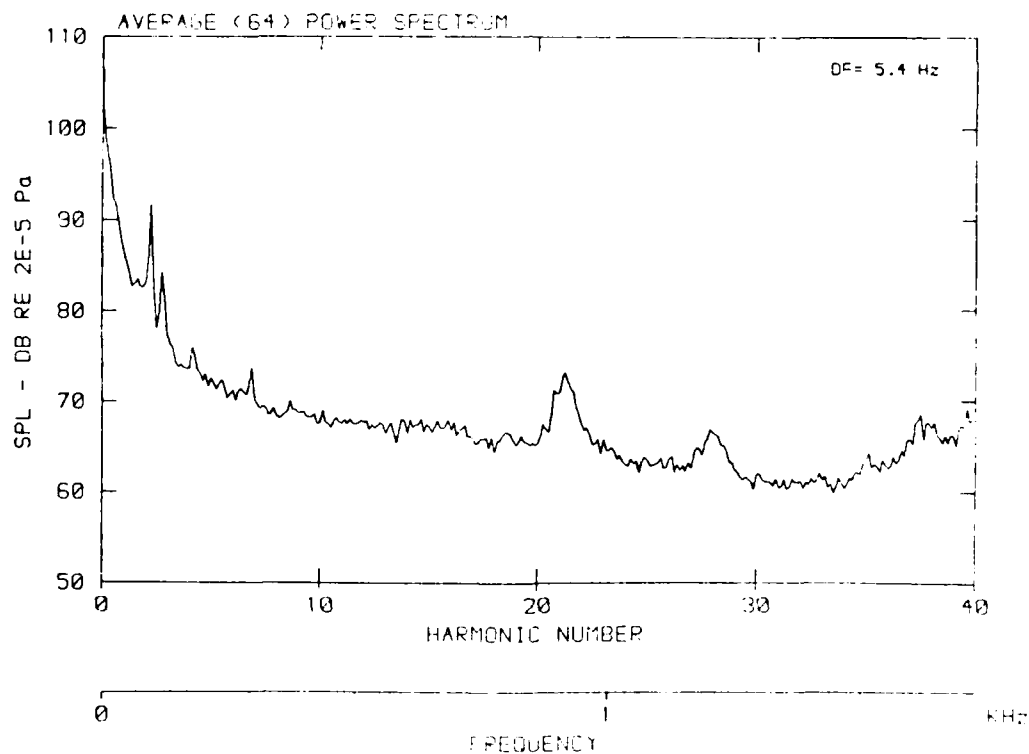
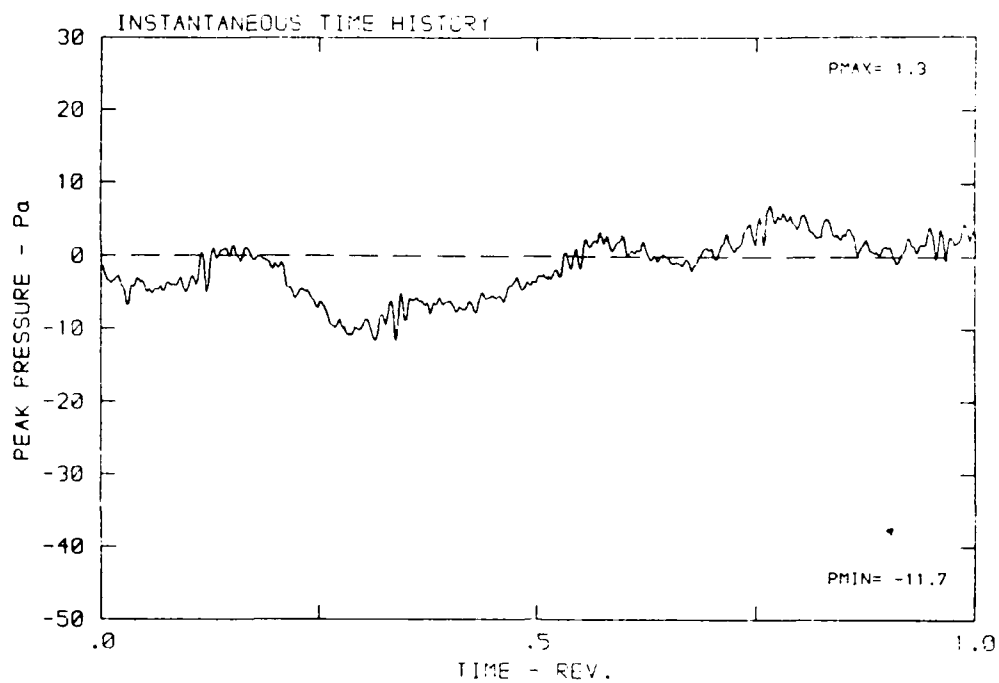
DATA POINT: 00-6 PUN: 122 MP: 6

β : 24.4° MH: .4315 n: 1294 rpm v/u : .375 ϕ : .0° T: 288.8 K



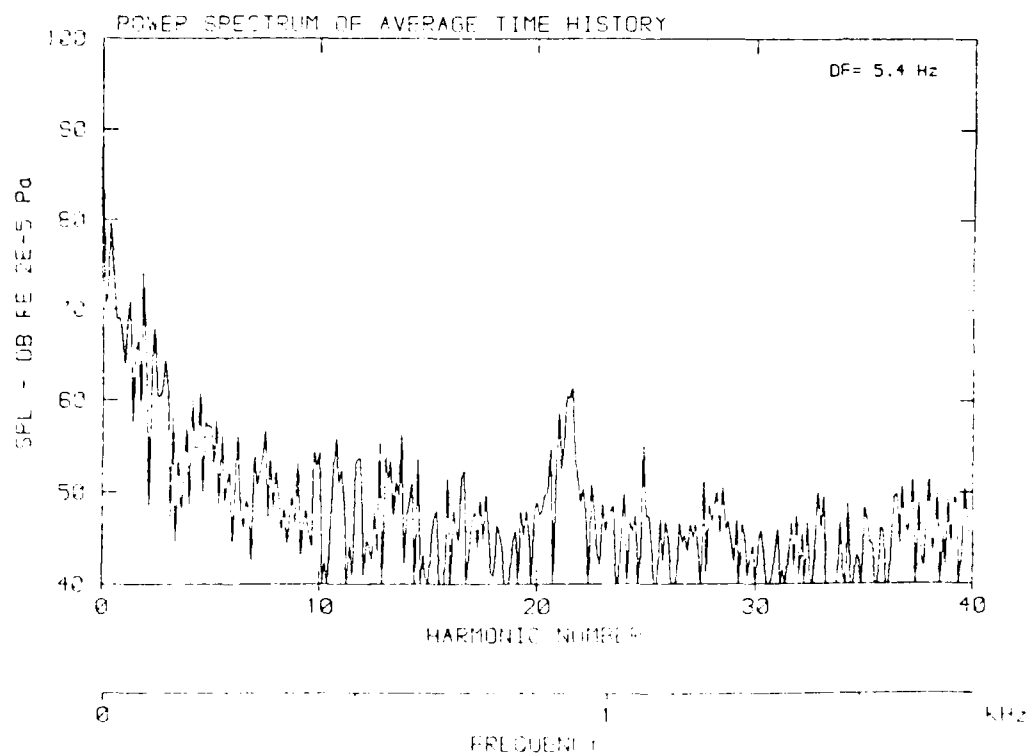
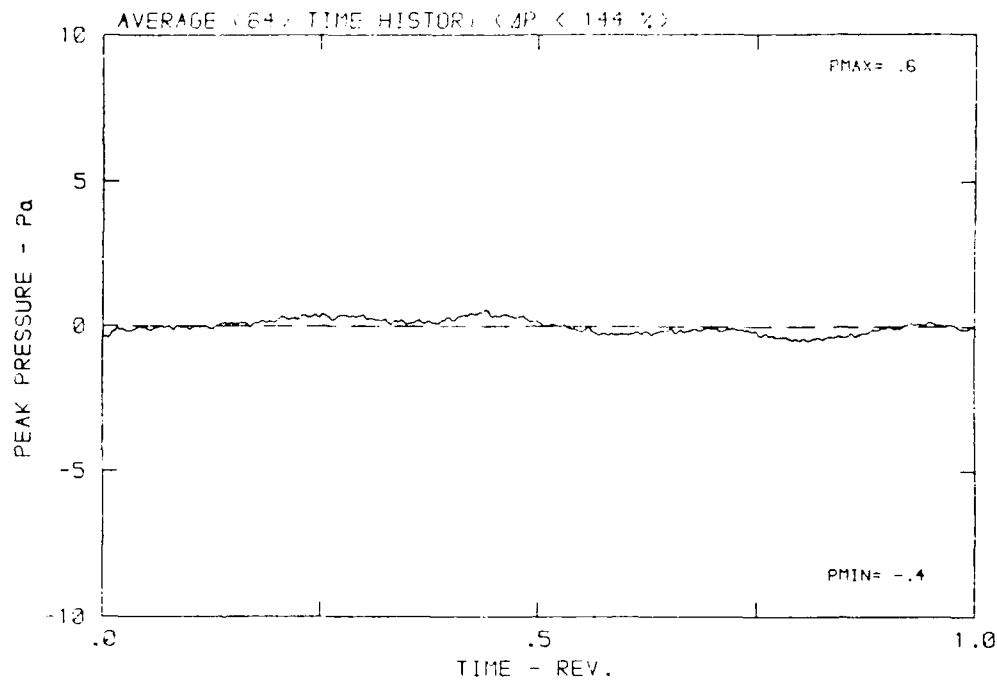
DATA POINT: CC-6 RUN: 122 MP: 7

β : 24.4° MH: .4315 n: 1294 rpm γ : .375 ϕ : .0° T: 288.8 K



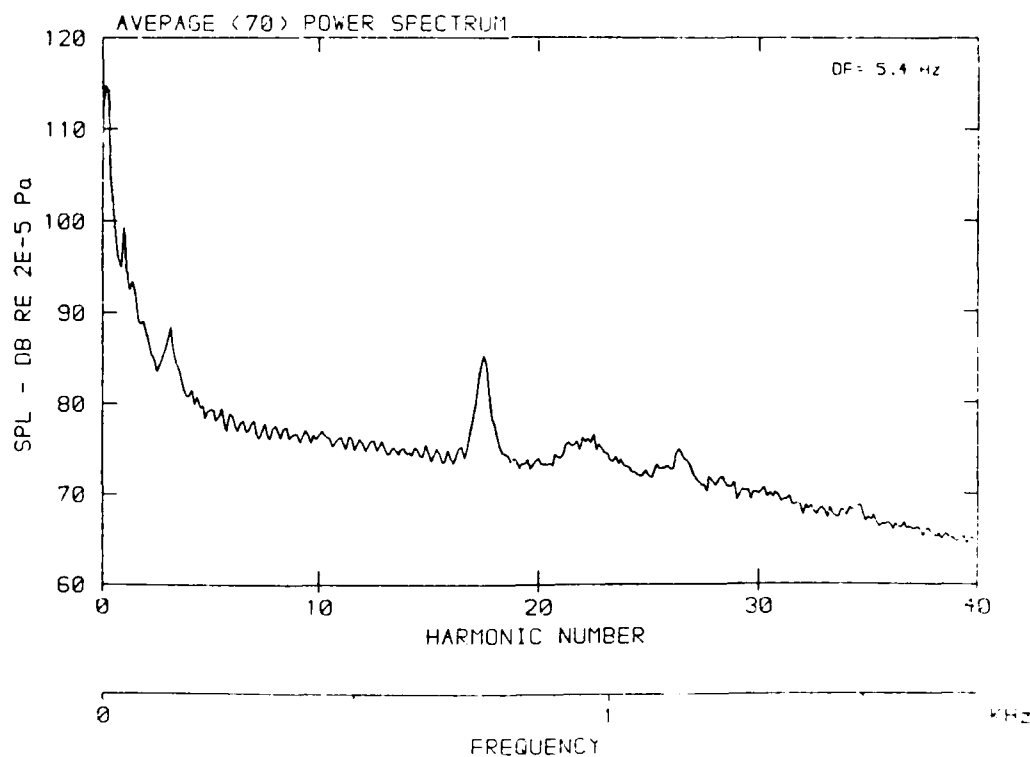
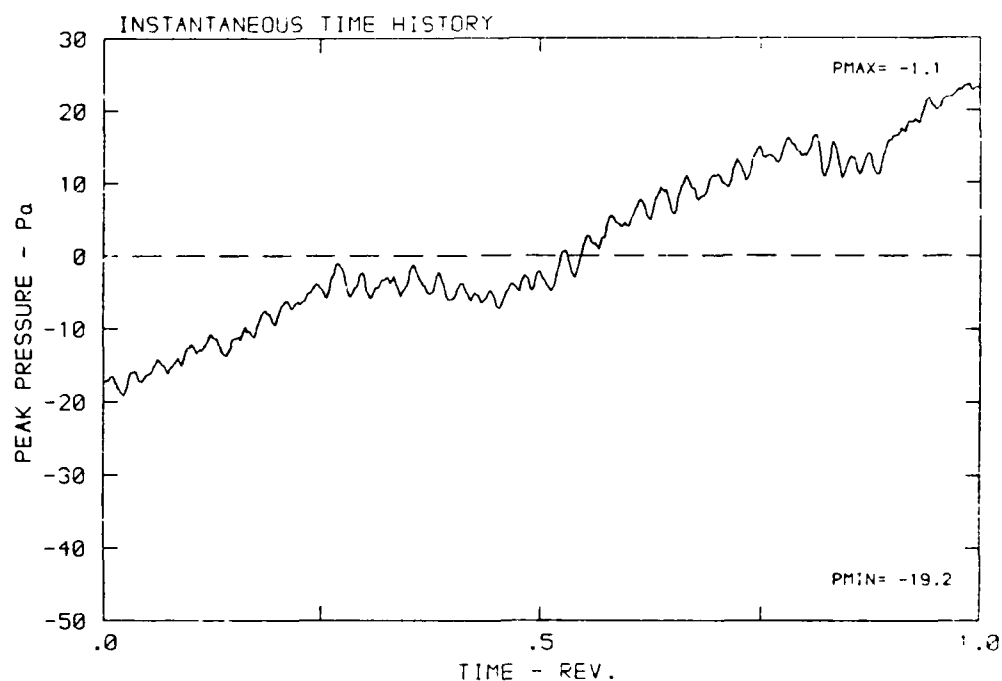
DATA POINT: CC-6 RUN: 122 MP: 7

β : 24.4° MH: .4315 n: 1294 rpm v/u : .375 ϕ : .0° T: 288.8 K



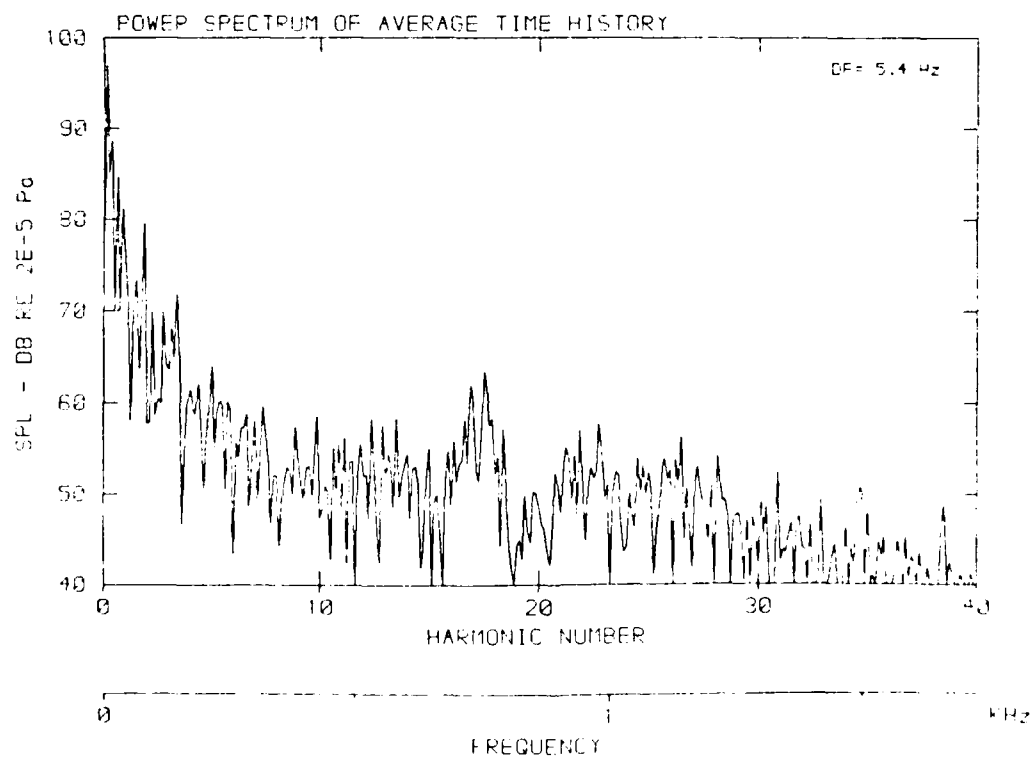
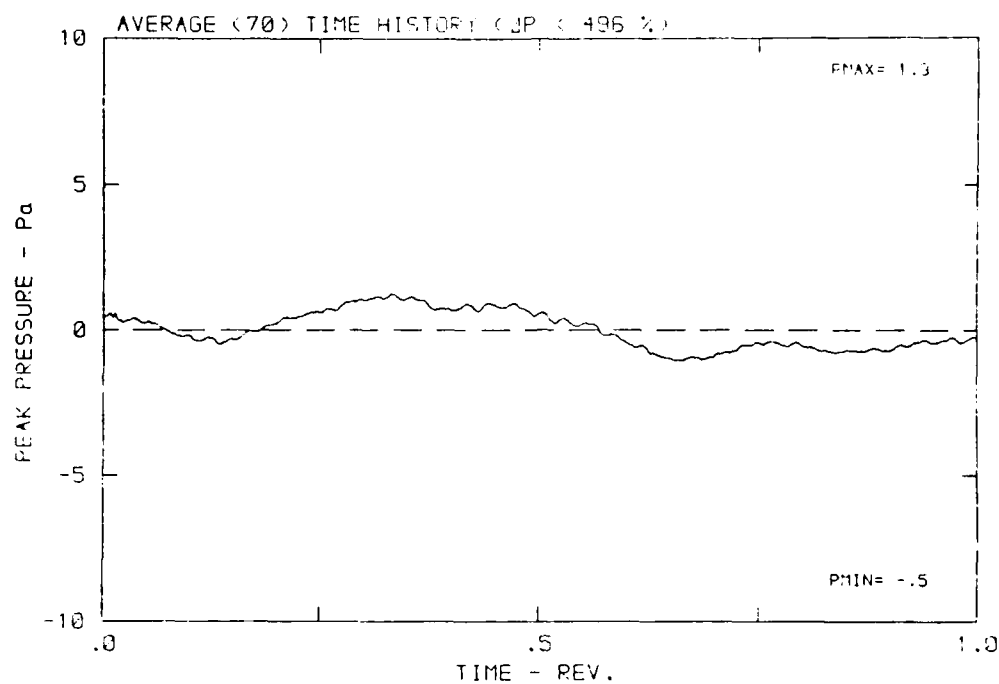
DATA POINT: CC-6 RUN: 122 MP: 6

β : 24.4° MH: .4315 n: 1294 rpm ν/ω : .375 ϕ : .0° T: 288.6 K



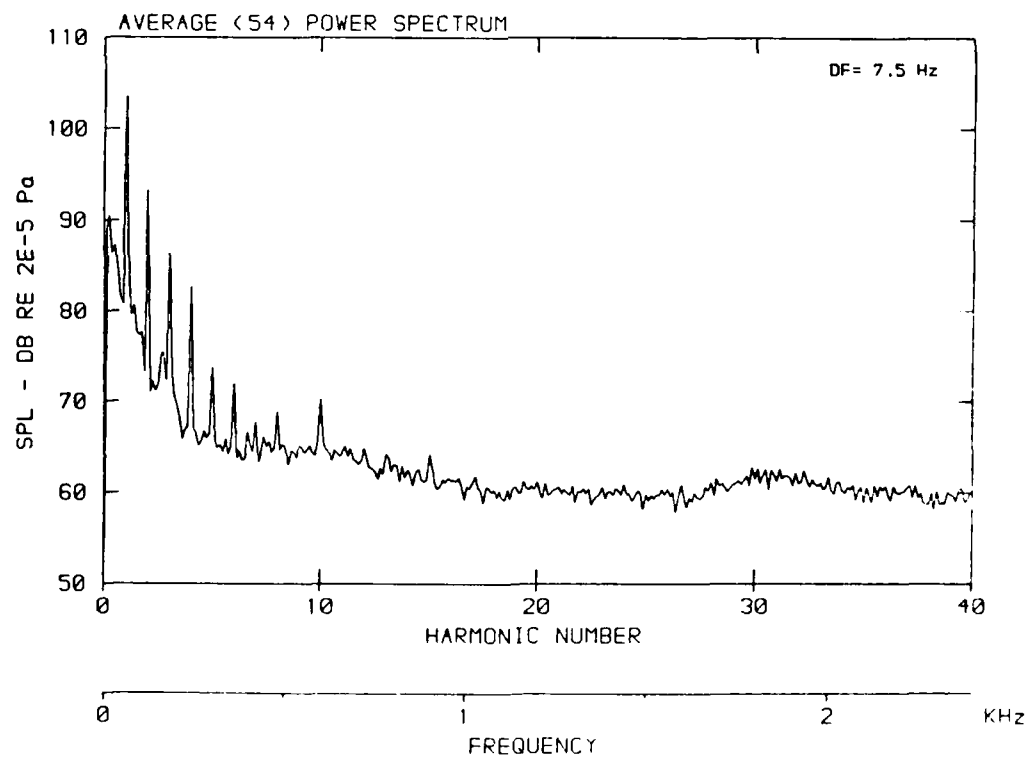
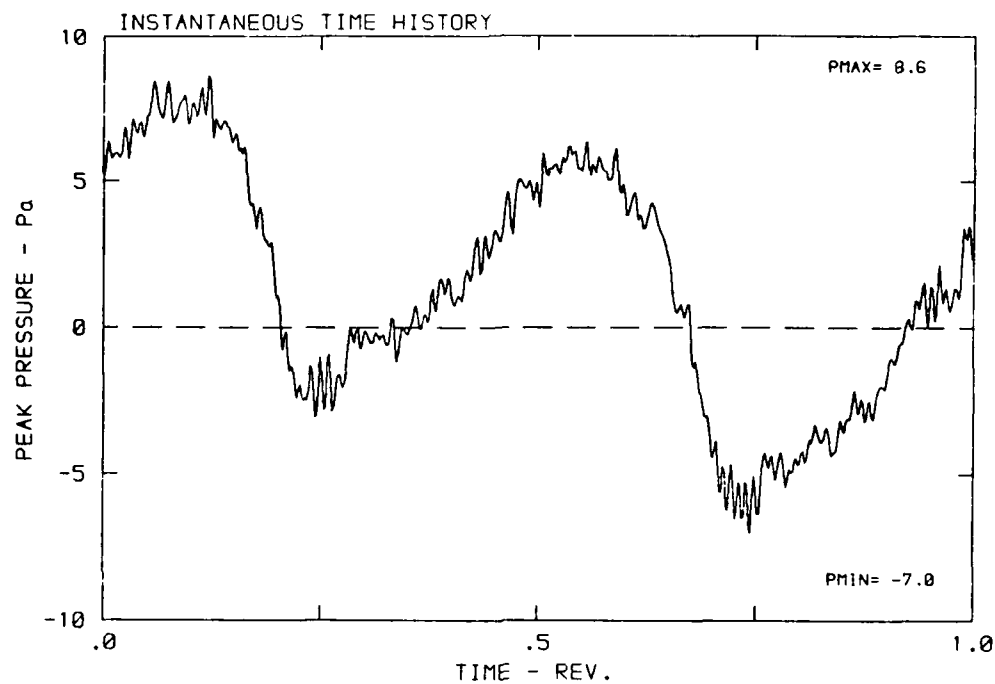
DATA POINT: CC-6 RUN: 122 MP: 9

β : 24.4° MH: .4315 n: 1294 rpm v/u : .375 ϕ : .0° T: 288.8 K



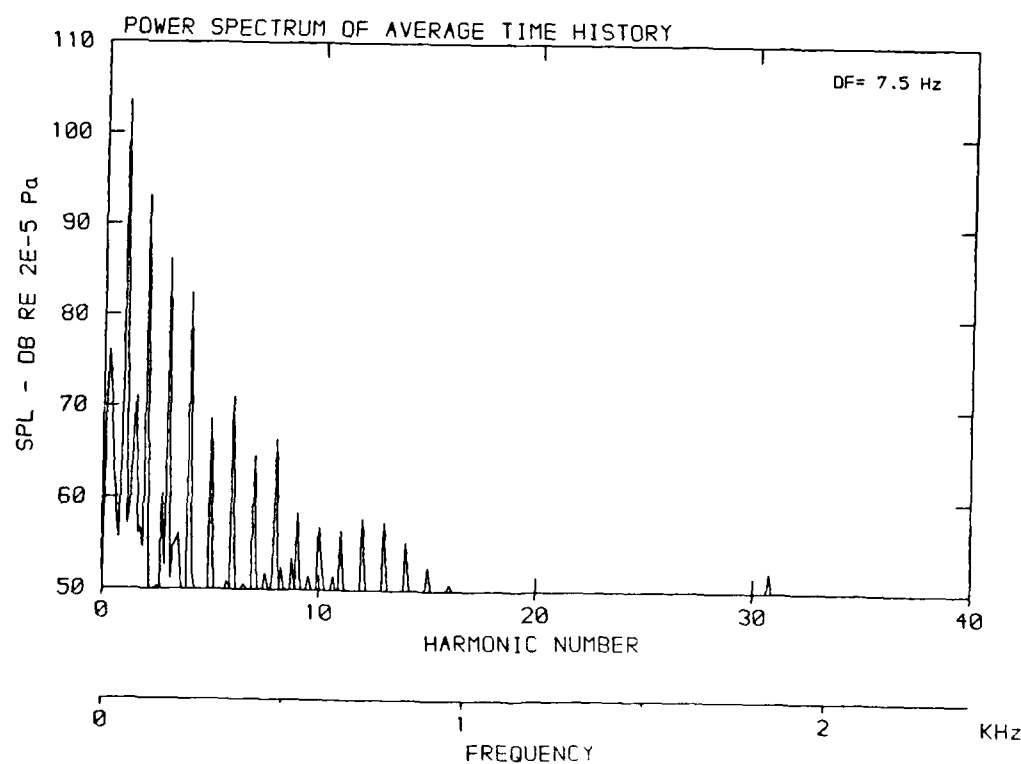
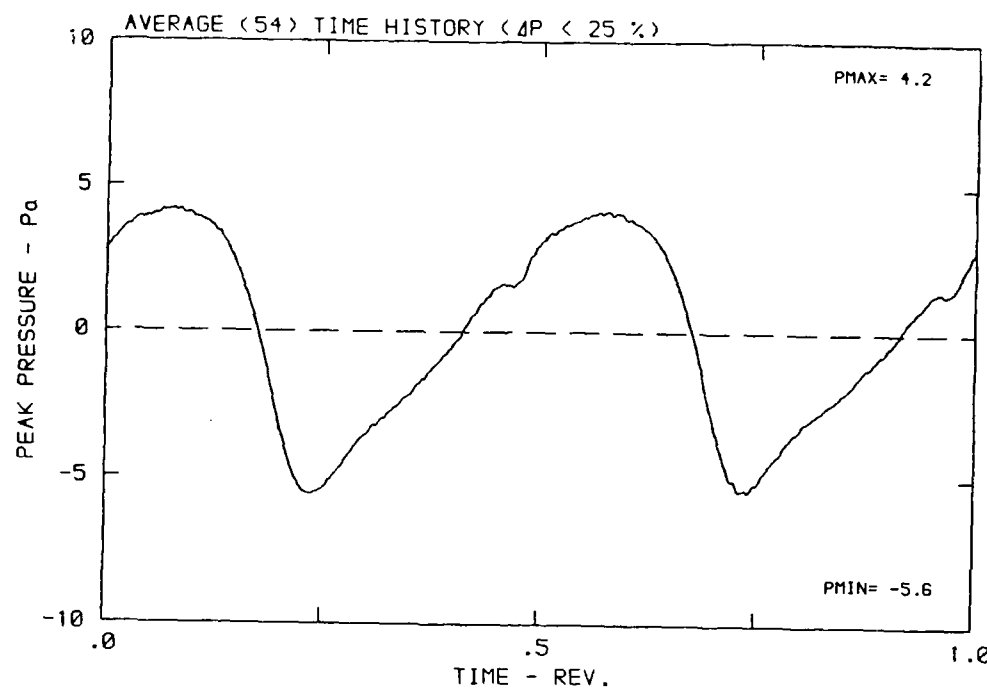
DATA POINT: DC-1 RUN: 115 MP: 1

β : 29.5° MH: .5765 n: 1800 rpm v/u : .228 ϕ : .0° T: 233.8 K



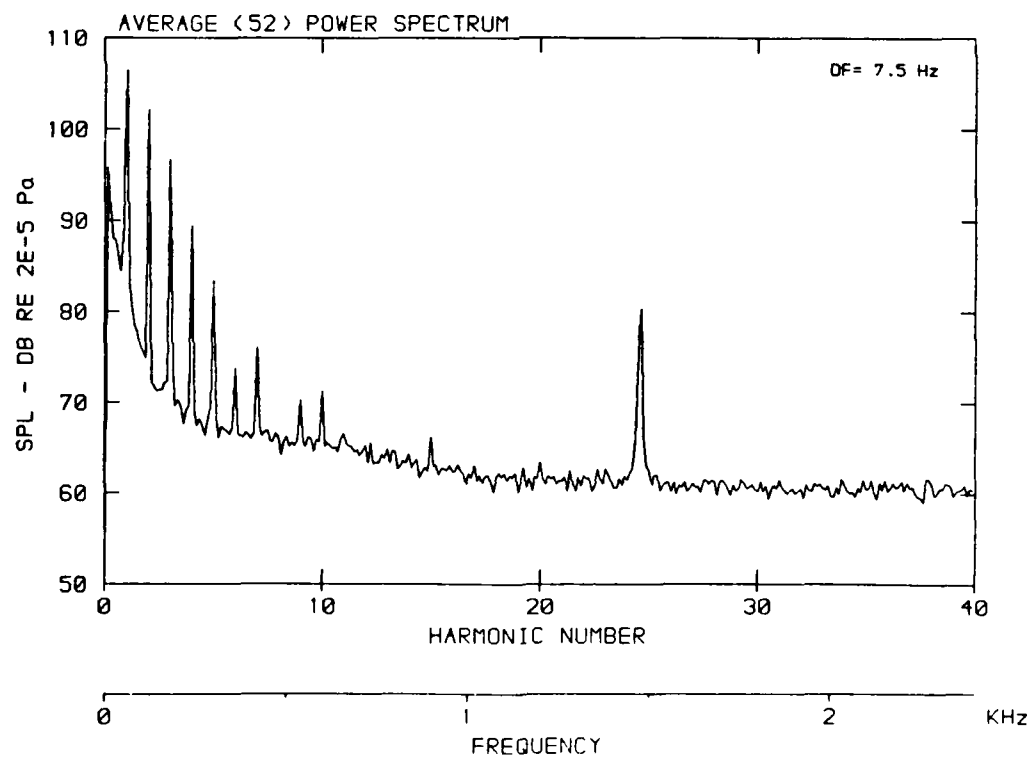
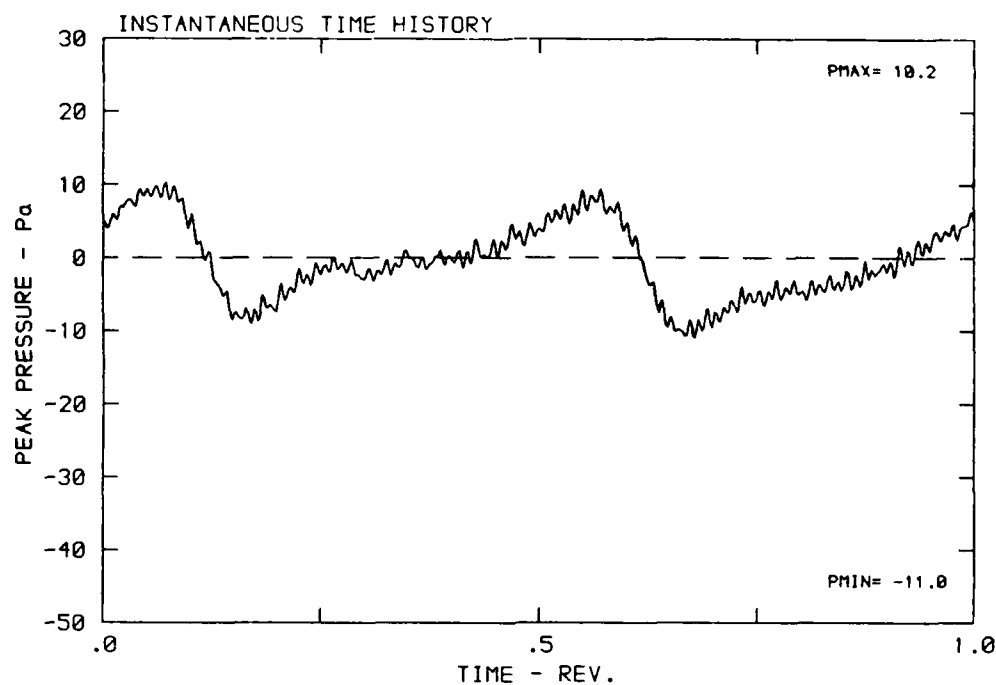
DATA POINT: DC-1 RUN: 115 MP: 1

β : 29.5° MH: .5765 n: 1800 rpm v/u: .228 ϕ : .0° T: 288.8 K



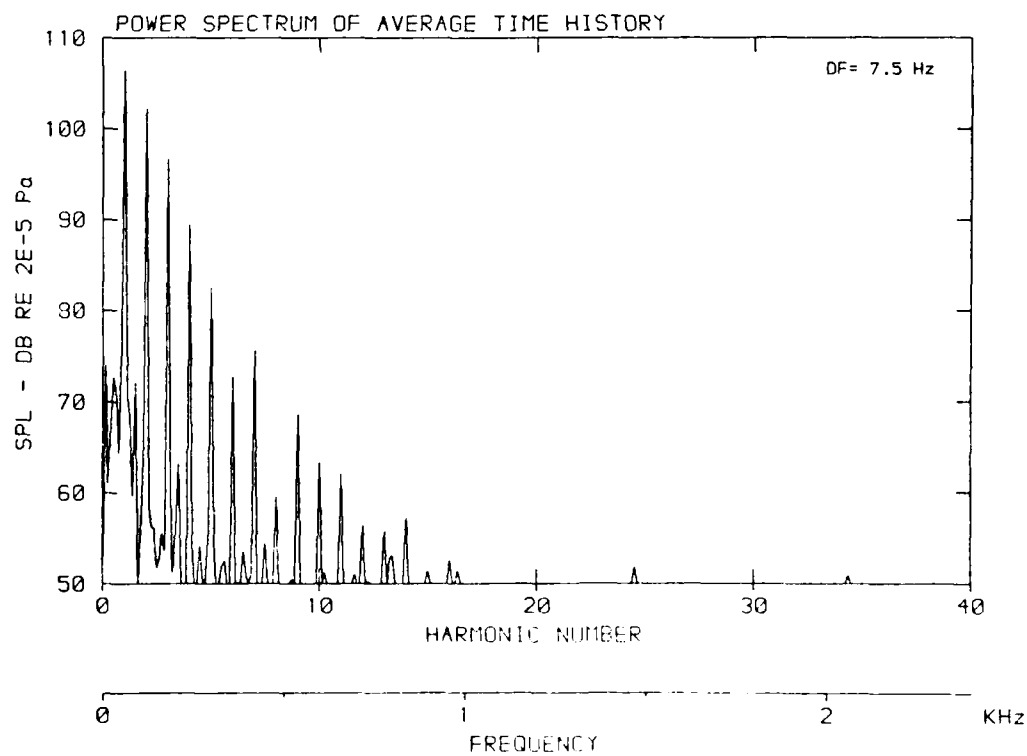
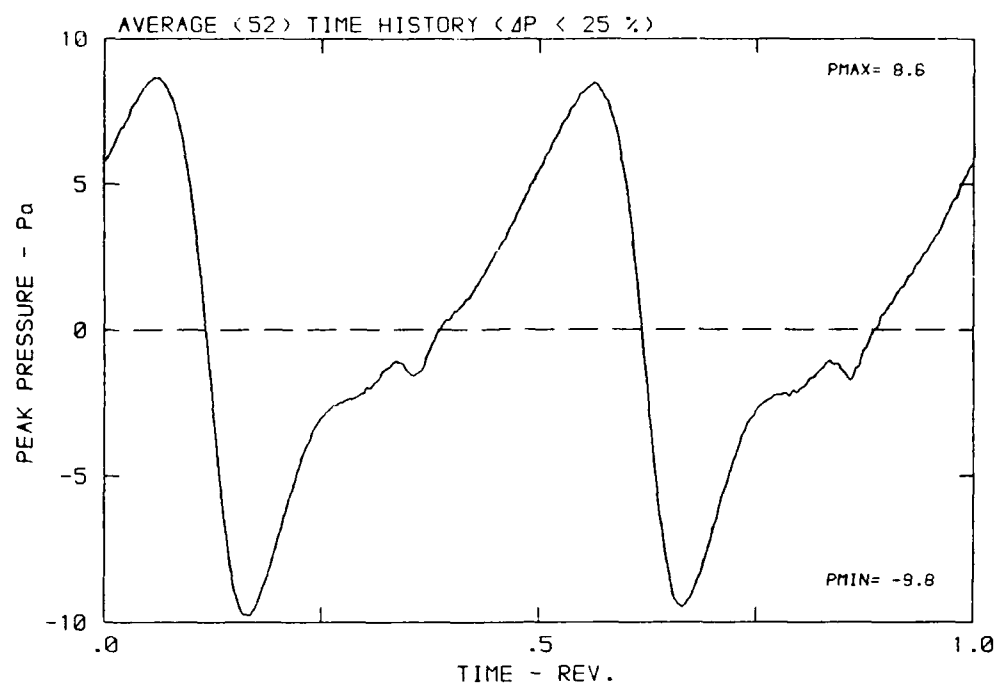
DATA POINT: DC-1 RUN: 115 MP: 2

β : 29.5° MH: .5765 n: 1800 rpm v/u: .228 ϕ : .0° T: 288.8 K



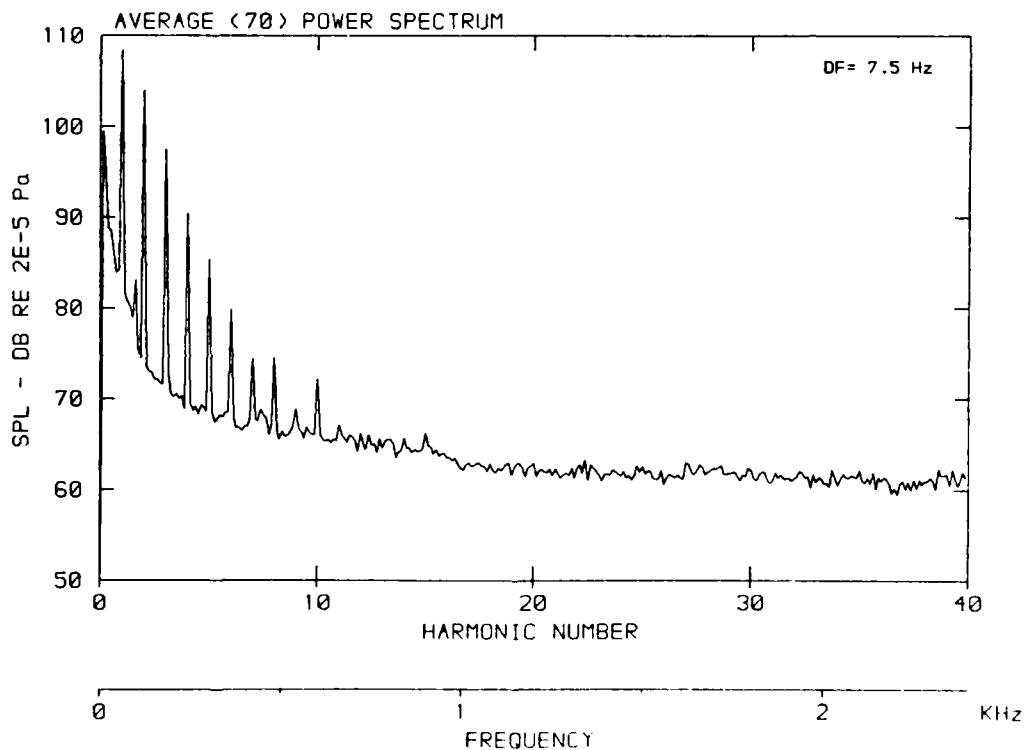
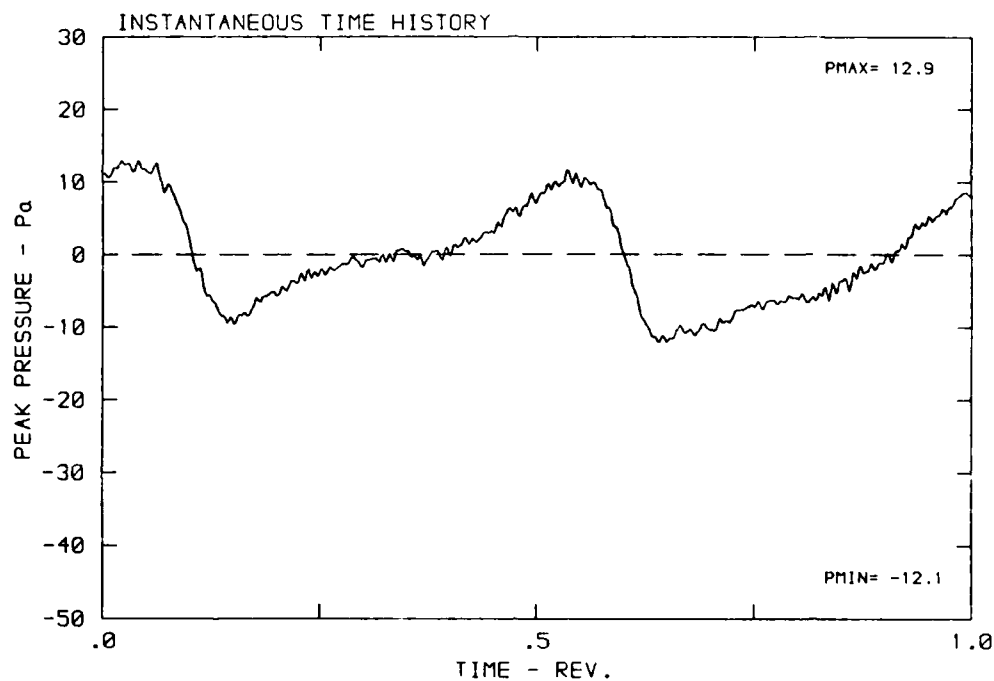
DATA POINT: DC-1 RUN: 115 MP: 2

β : 29.5° MH: .5765 n: 1800 rpm v/u: .228 ϕ : .0° T: 288.8 K



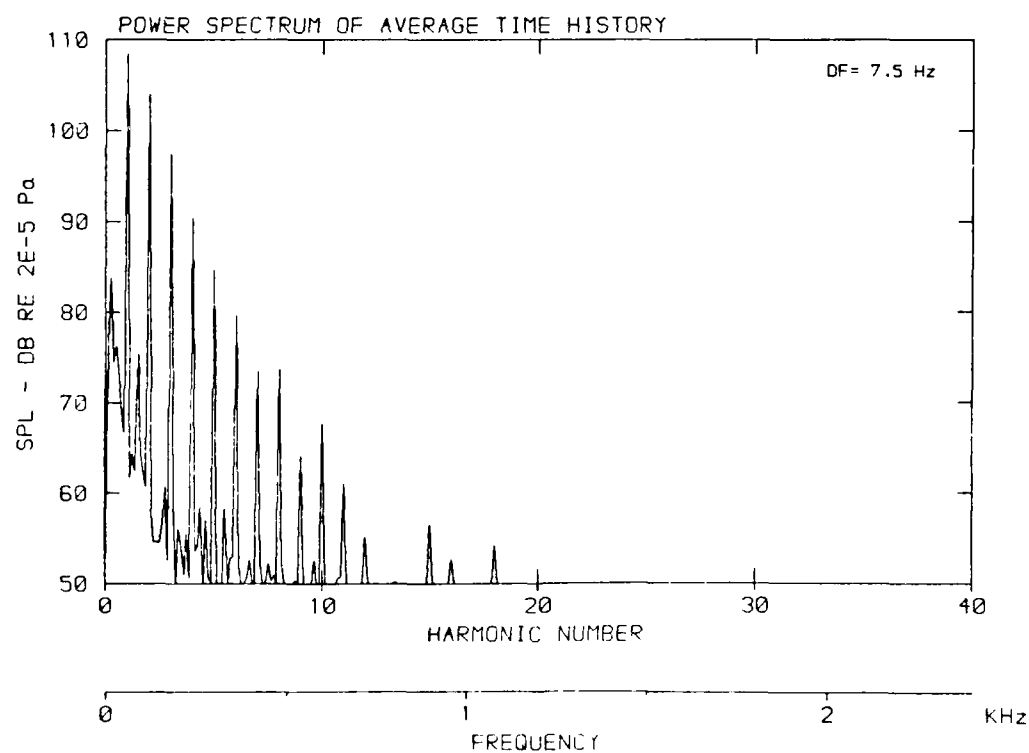
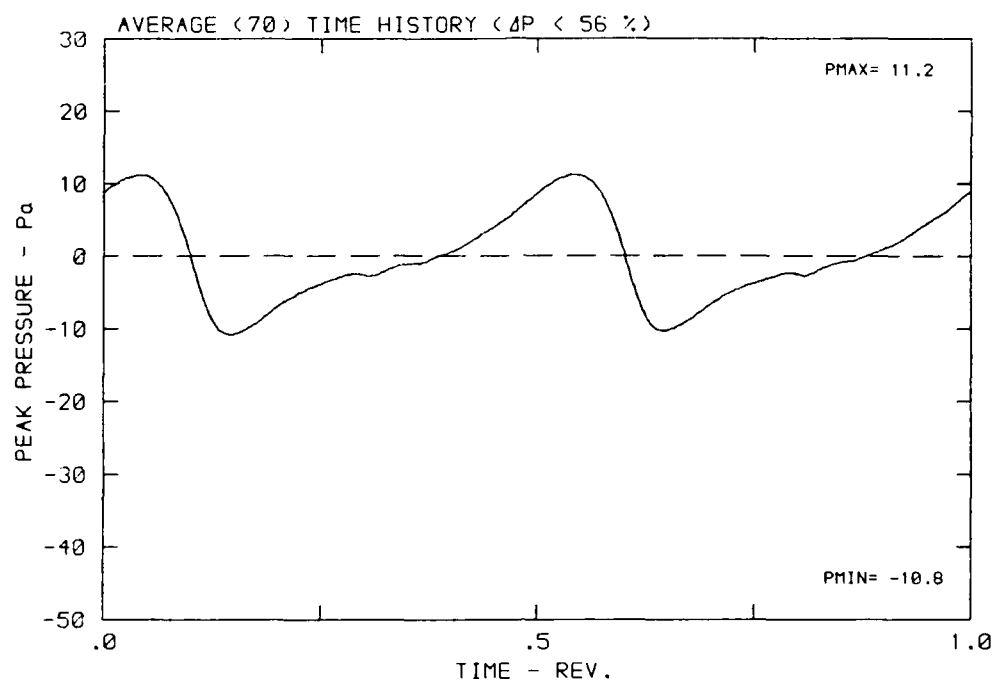
DATA POINT: DC-1 RUN: 115 MP: 3

β : 29.5° MH: .5765 n: 1800 rpm v/u: .228 ϕ : .0° T: 288.8 K



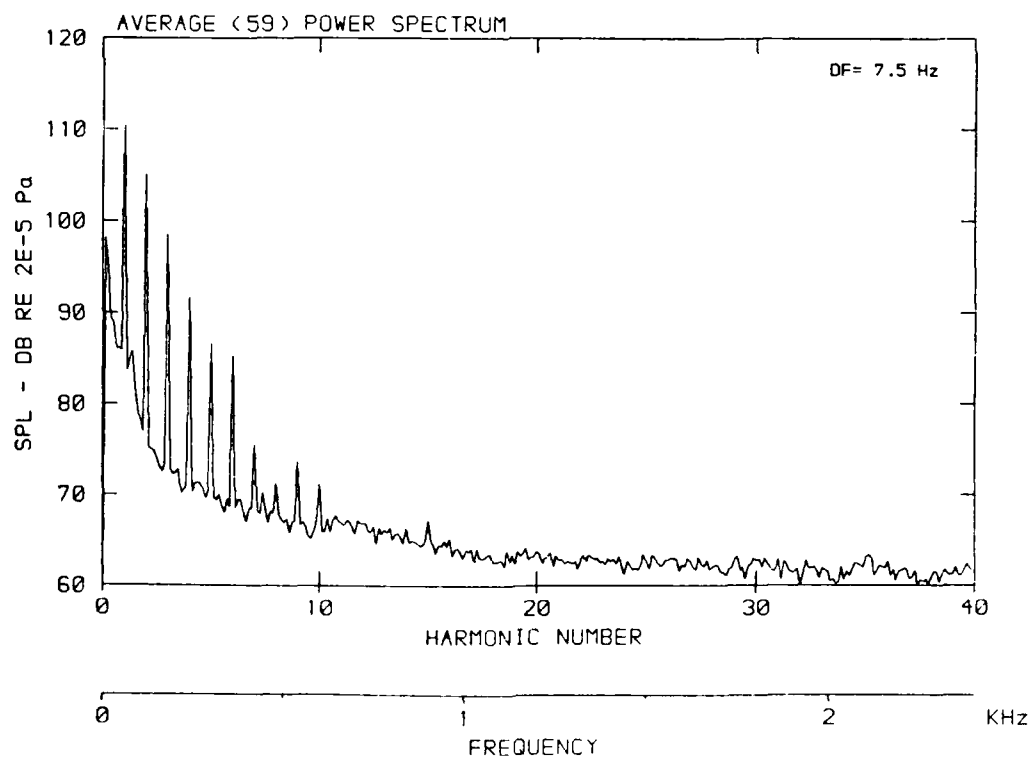
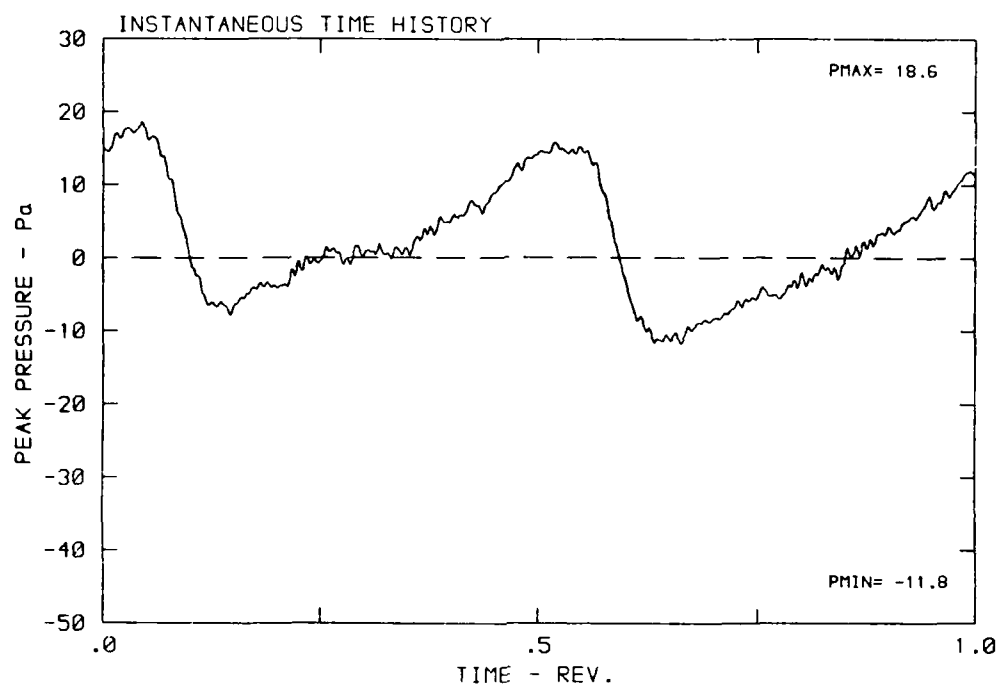
DATA POINT: DC-1 RUN: 115 MP: 3

β : 29.5° MH: .5765 n: 1800 rpm v/u: .228 ϕ : .0° T: 288.8 K



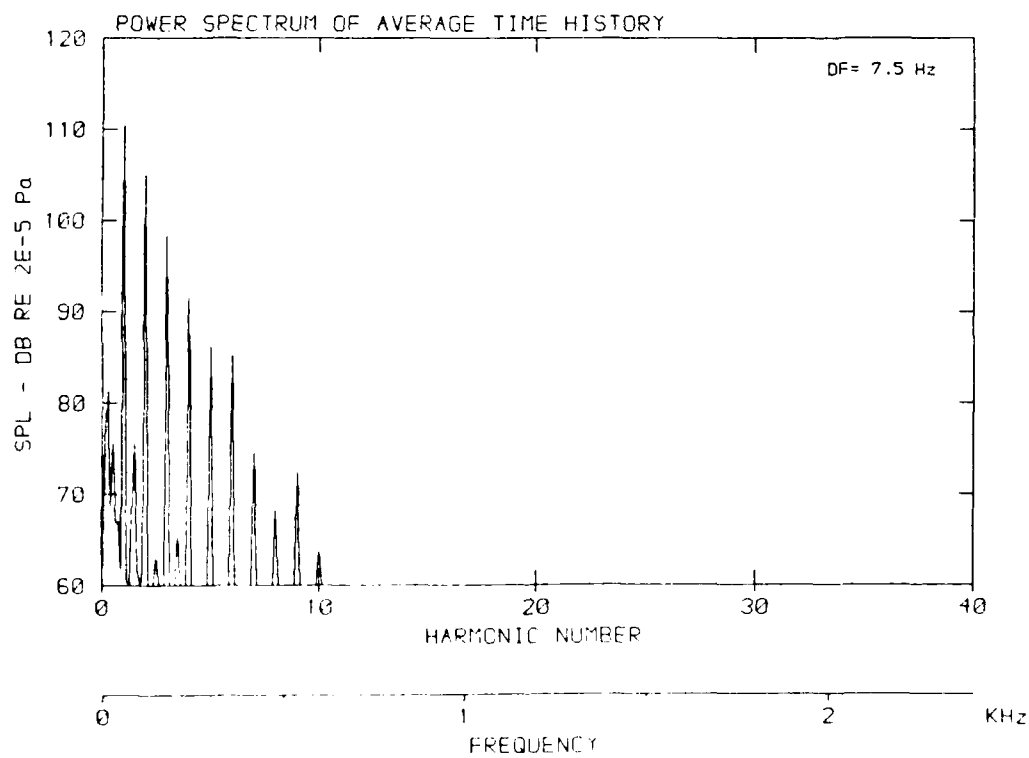
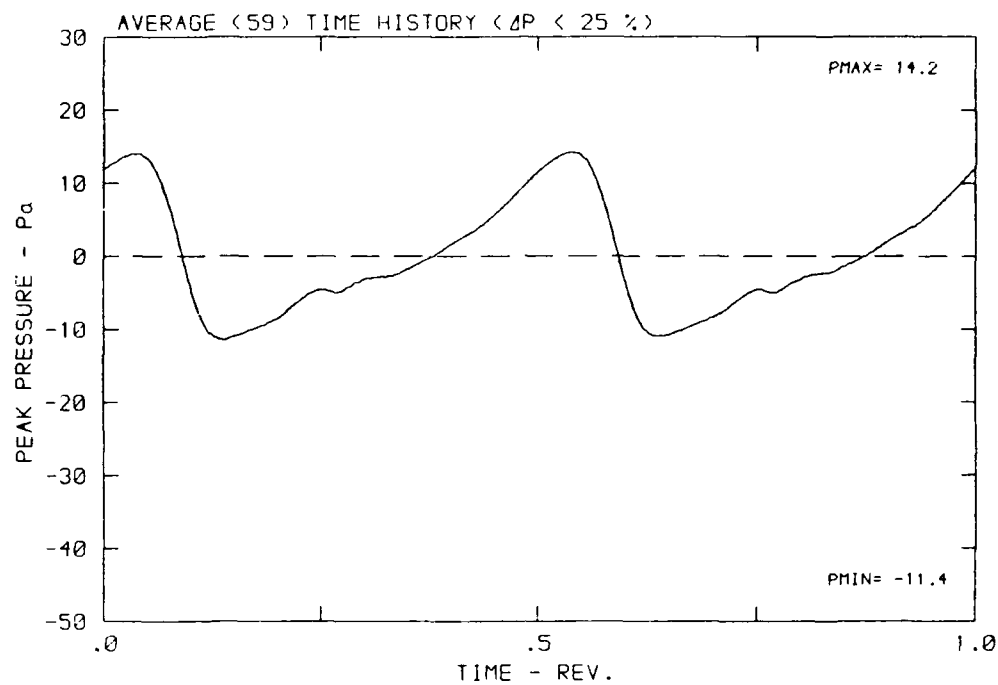
DATA POINT: DC-1 RUN: 115 MP: 4

β : 29.5° MH: .5765 n: 1800 rpm v/u: .228 ϕ : .0° T: 288.8 K



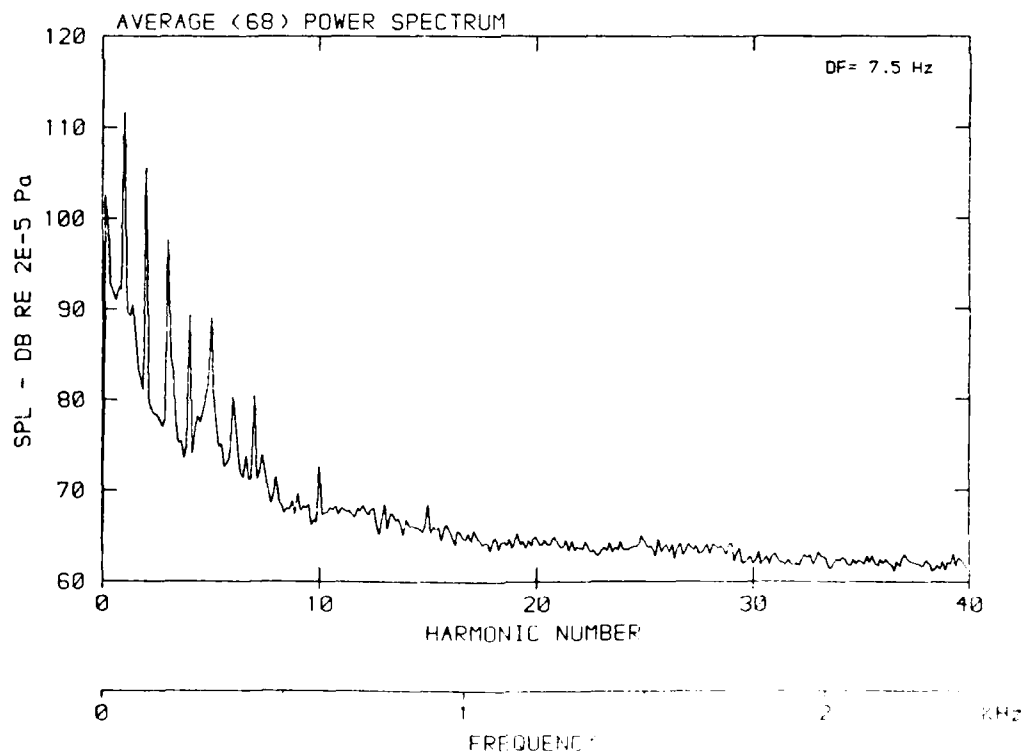
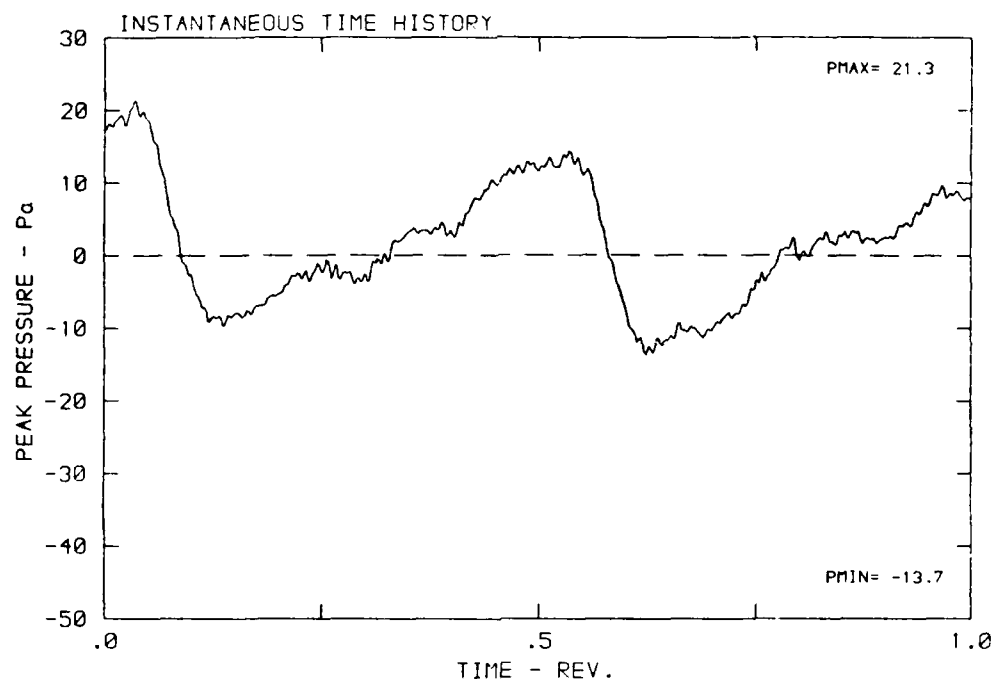
DATA POINT: DC-1 RUN: 115 MP: 4

β : 29.5° MH: .5765 n: 1800 rpm v/u : .228 ϕ : .0° T: 288.8 K



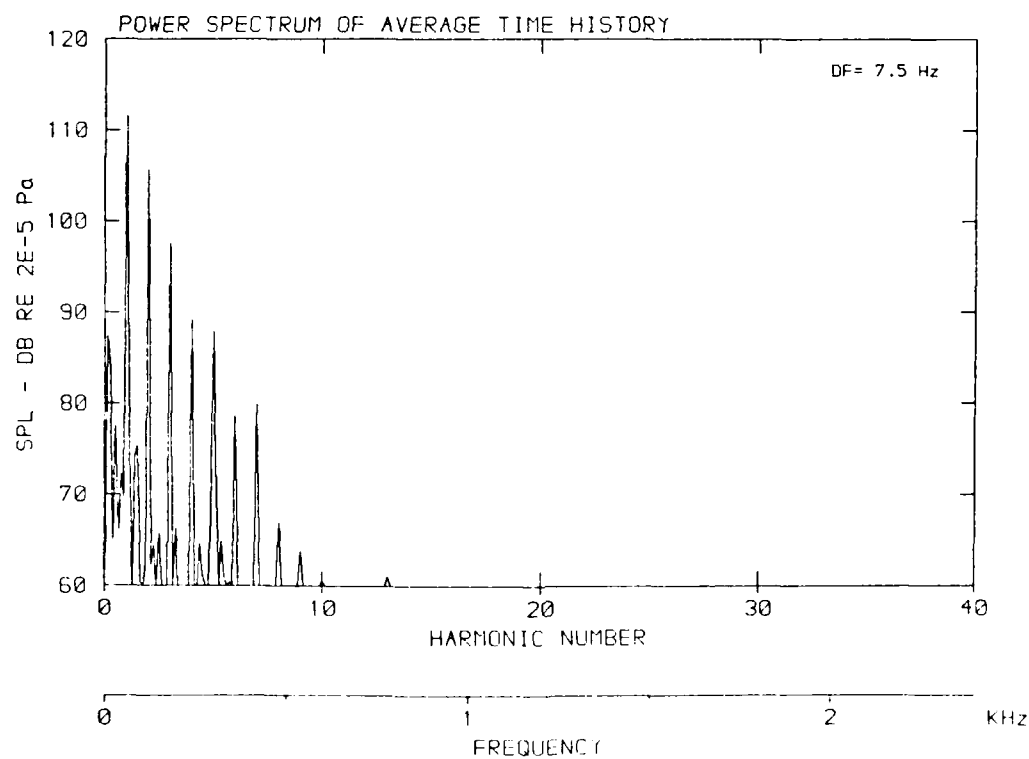
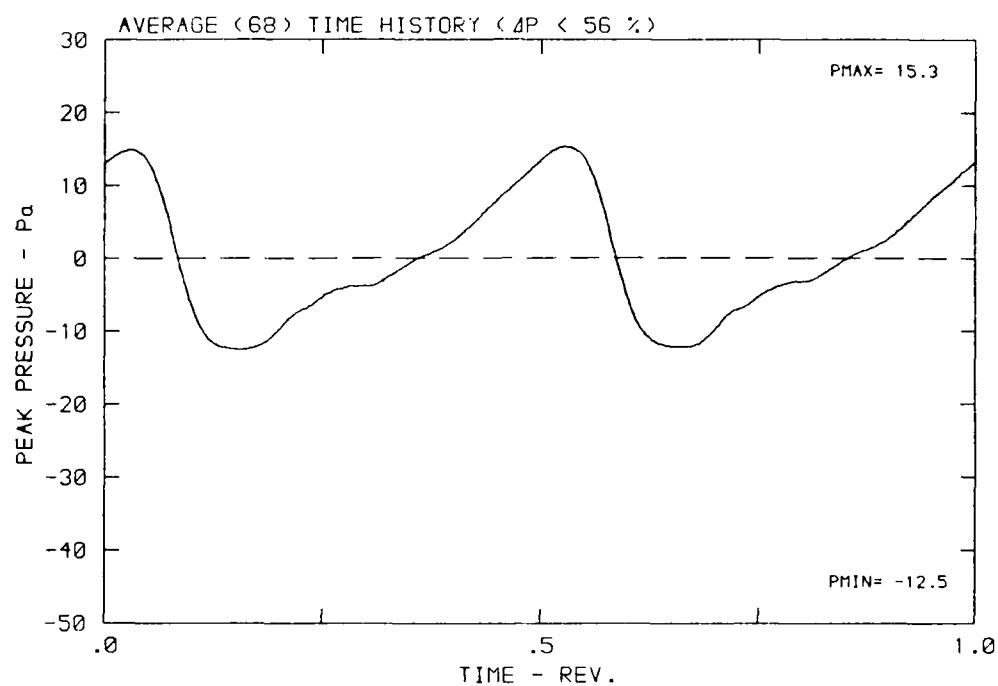
DATA POINT: DC-1 RUN: 115 MP: 5

β : 29.5° MH: .5765 n: 1800 rpm v/u: .228 ϕ : .0° T: 238.8 K



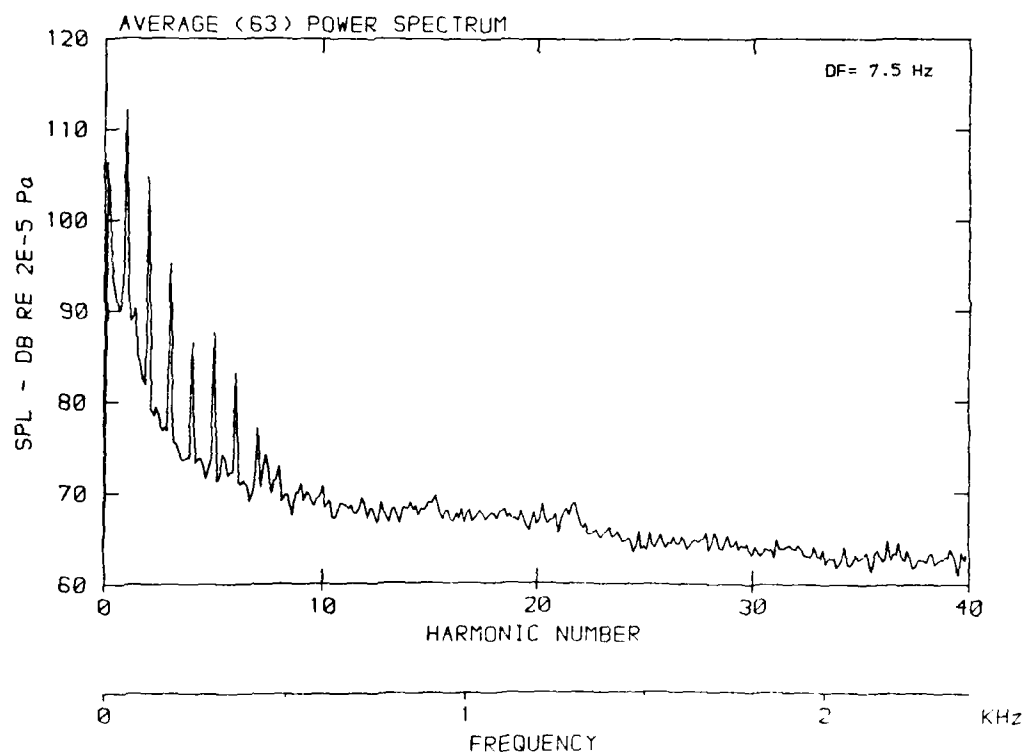
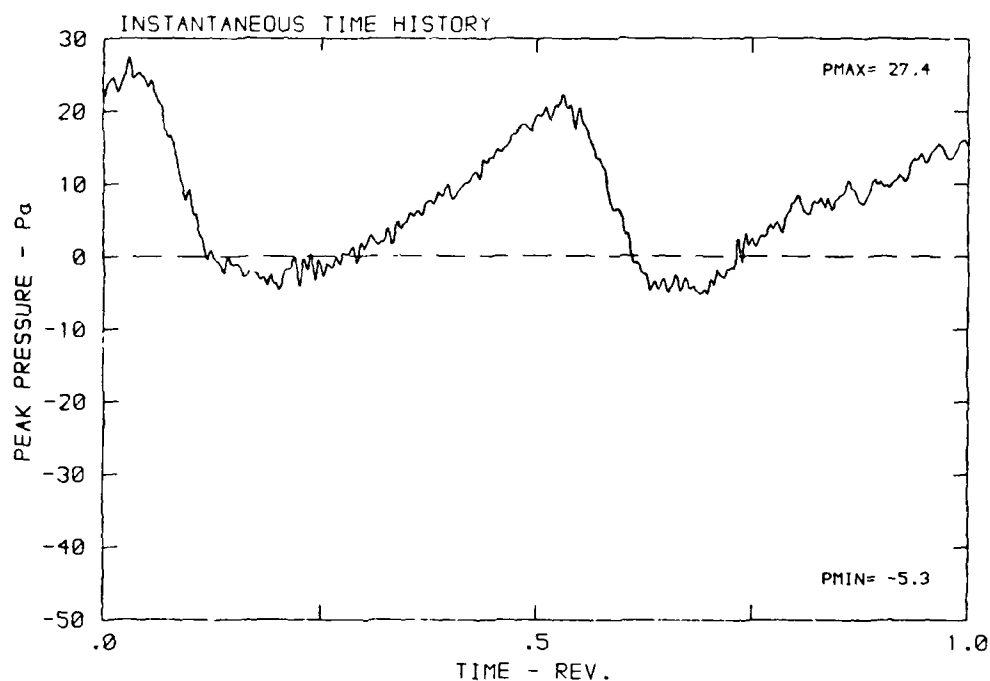
DATA POINT: DC-1 RUN: 115 MP: 5

β : 29.5° MH: .5765 n: 1800 rpm v/u: .228 ϕ : .0° T: 288.8 K



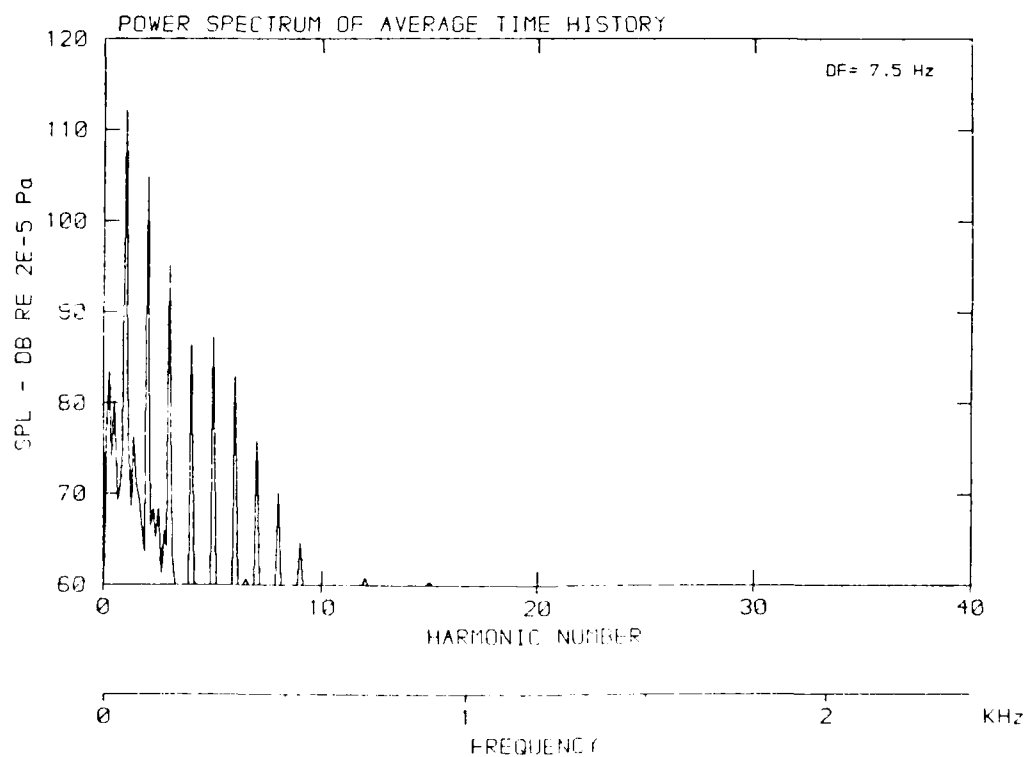
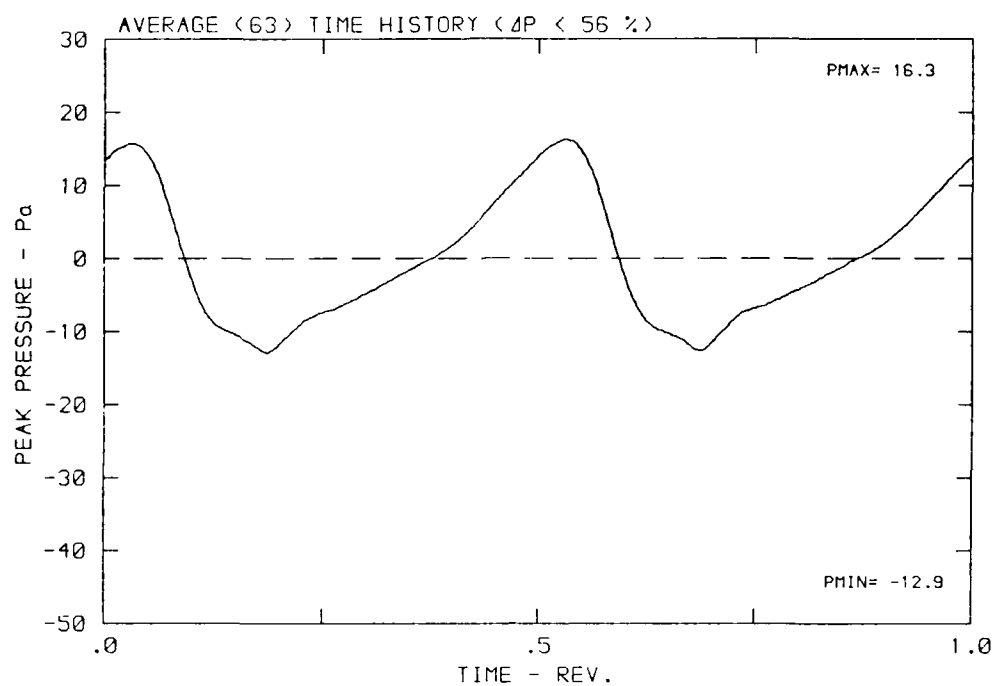
DATA POINT: DC-1 RUN: 115 MP: 6

β : 29.5° MH: .5765 n: 1800 rpm v/u: .228 ϕ : .0° T: 288.8 K



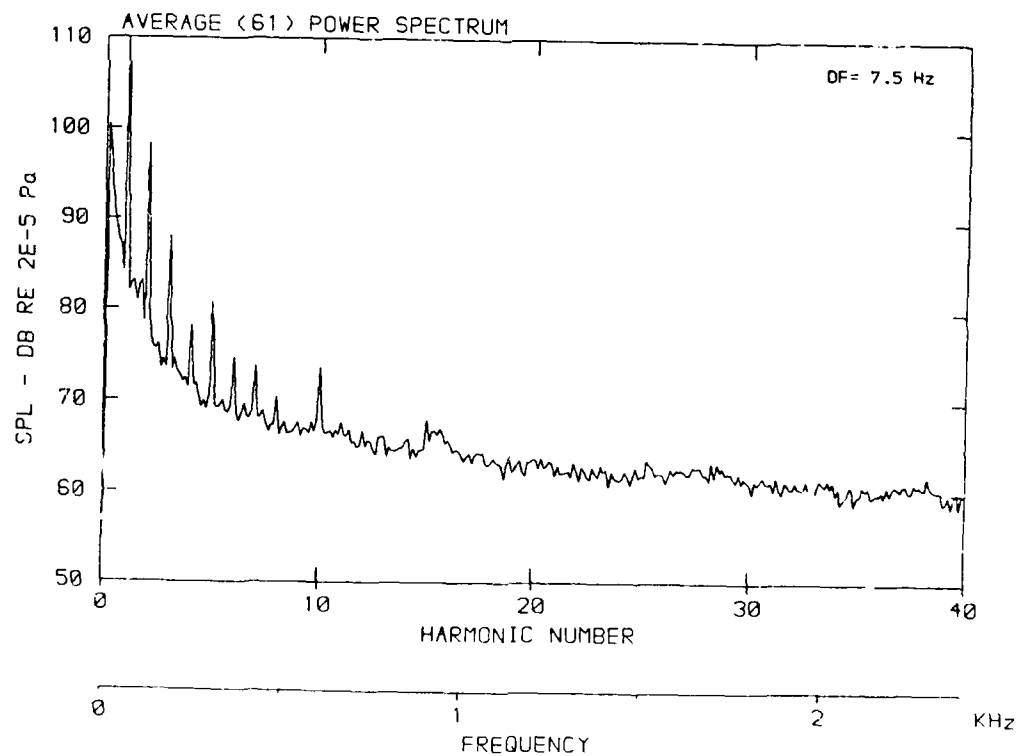
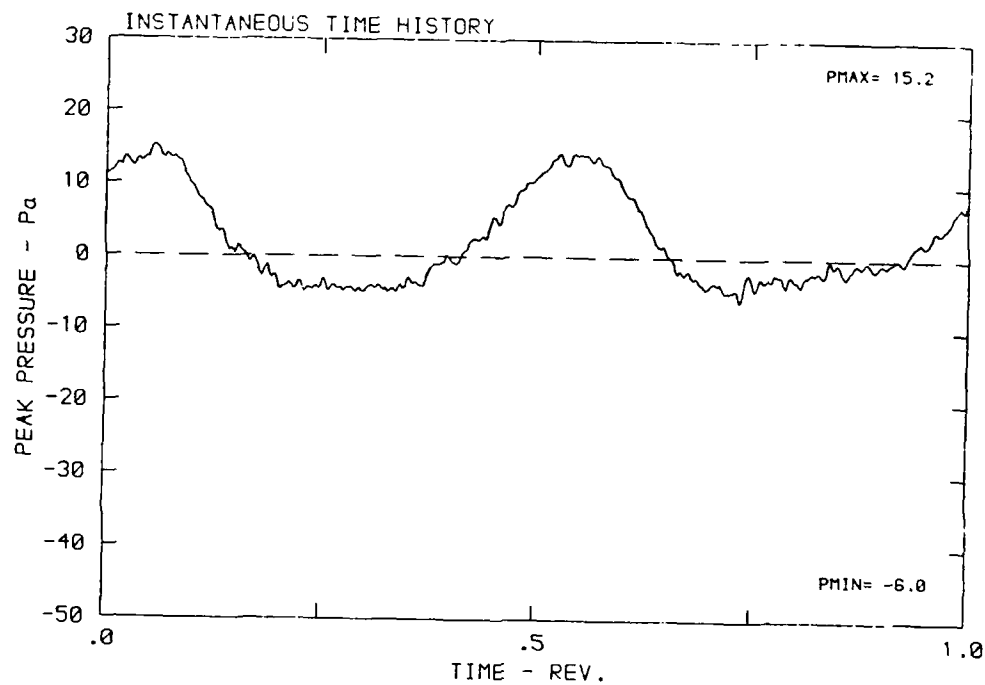
DATA POINT: DC-1 RUN: 115 MP: 6

β : 29.5° MH: .5765 n: 1800 rpm v/u: .228 ϕ : .0° T: 288.8 K



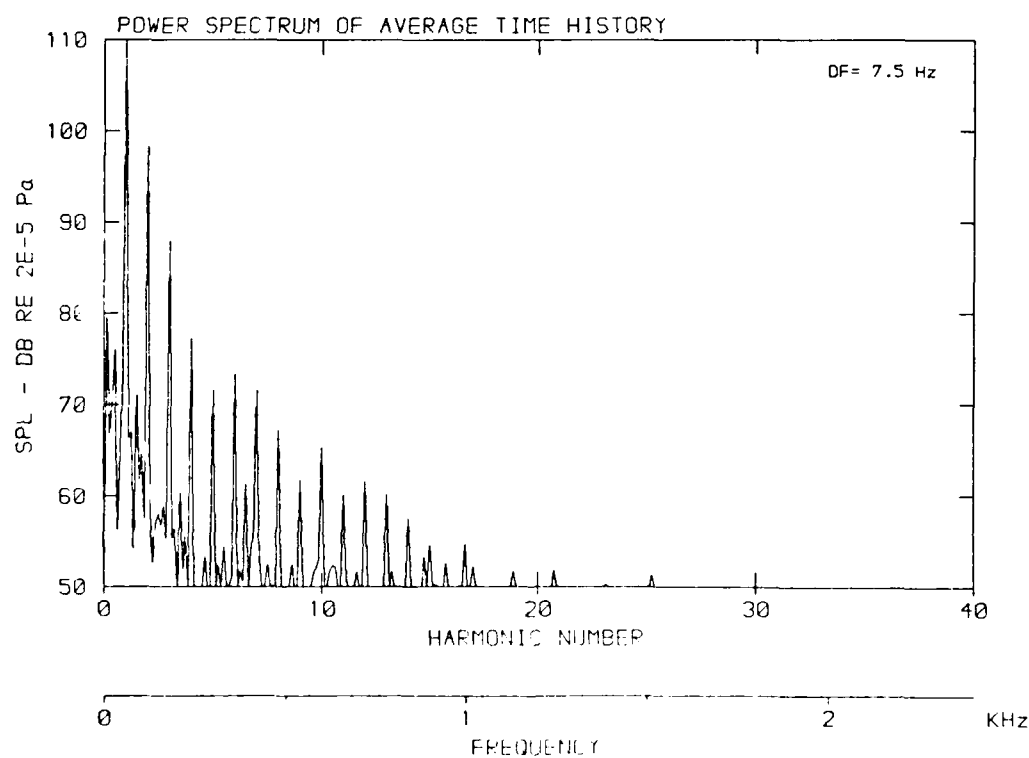
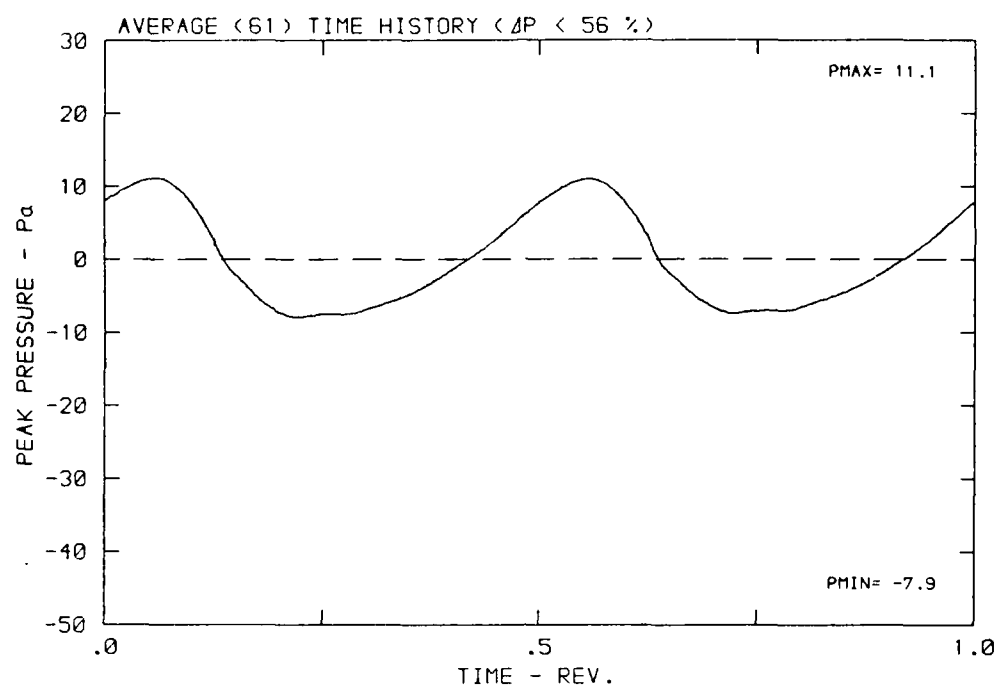
DATA POINT: DC-1 RUN: 115 MP: 7

β : 29.5° MH: .5765 n: 1800 rpm v/u : .228 ϕ : .0° T: 293.8 K



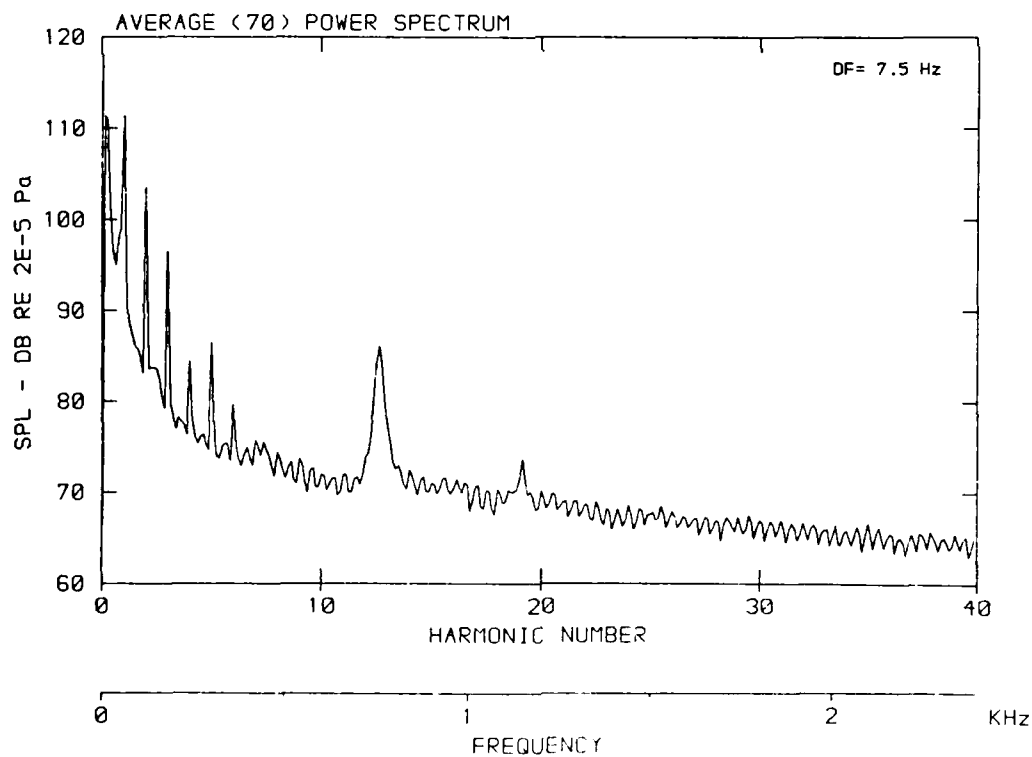
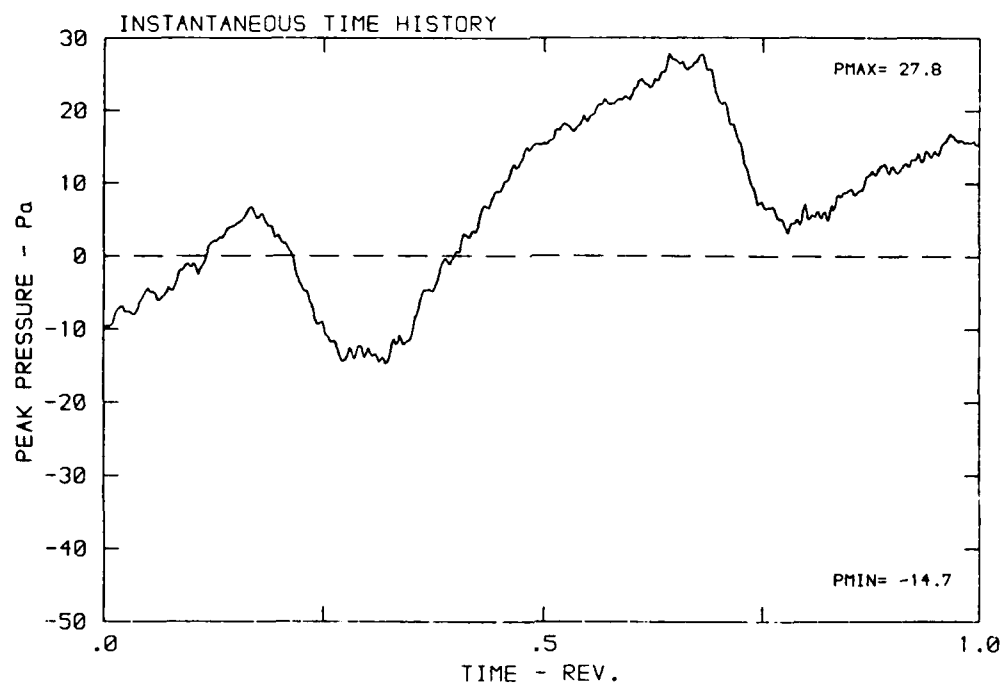
DATA POINT: DC-1 RUN: 115 MP: 7

β : 29.5° MH: .5765 n: 1800 rpm v/u: .228 ϕ : .0° T: 288.8 K



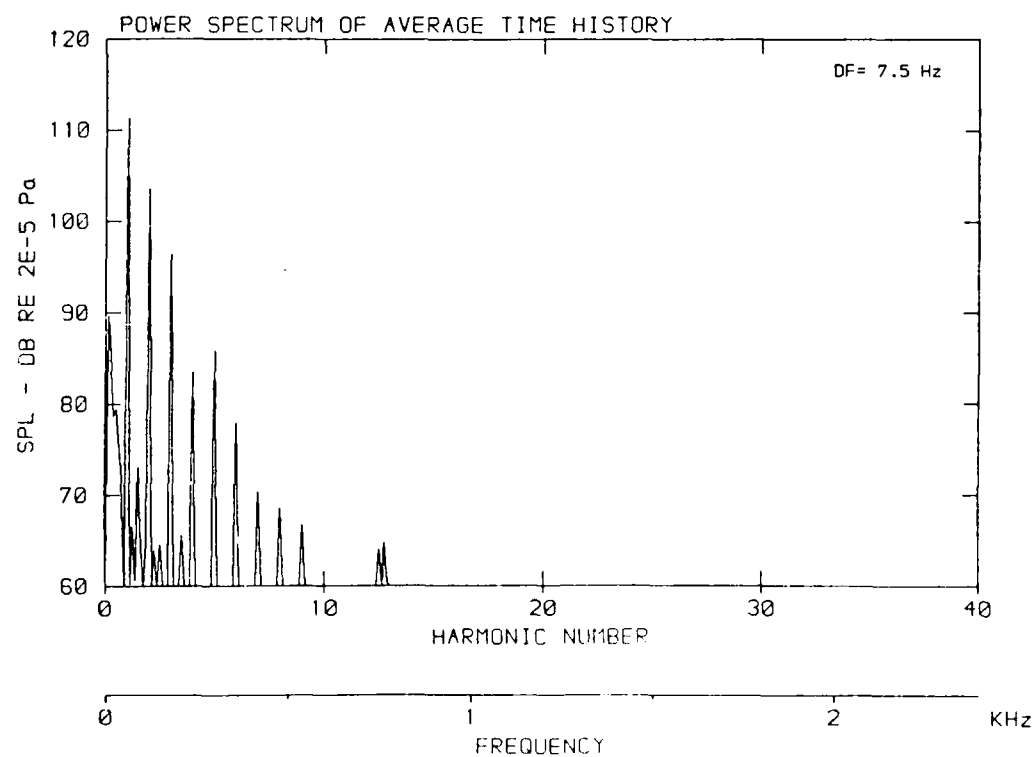
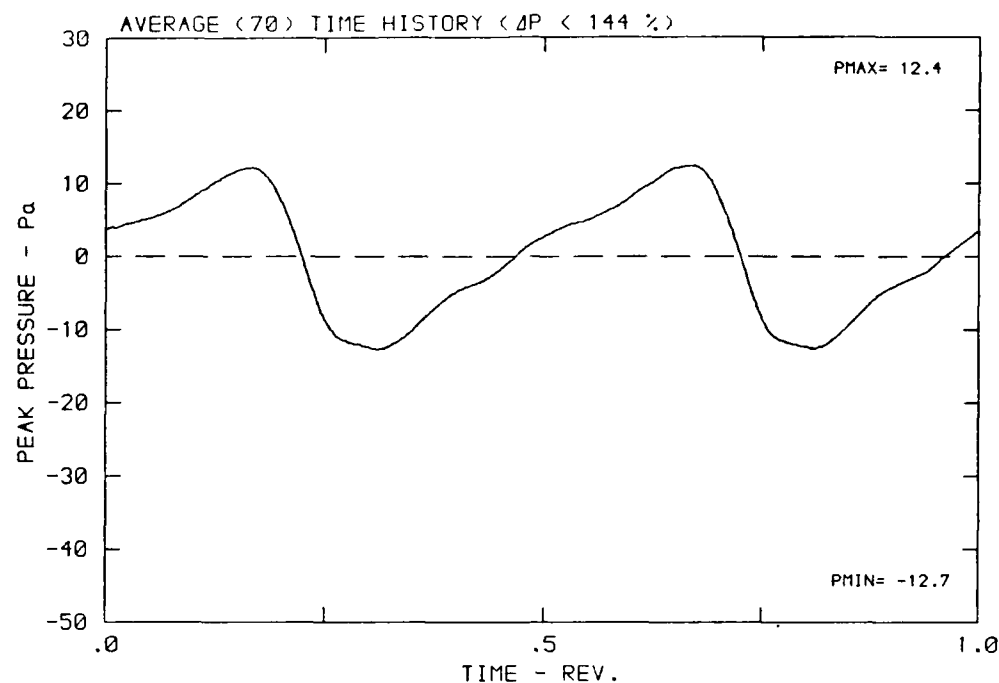
DATA POINT: DC-1 RUN: 115 MP: 9

β : 29.5° MH: .5765 n: 1800 rpm v/u : .228 ϕ : .0° T: 238.5 K



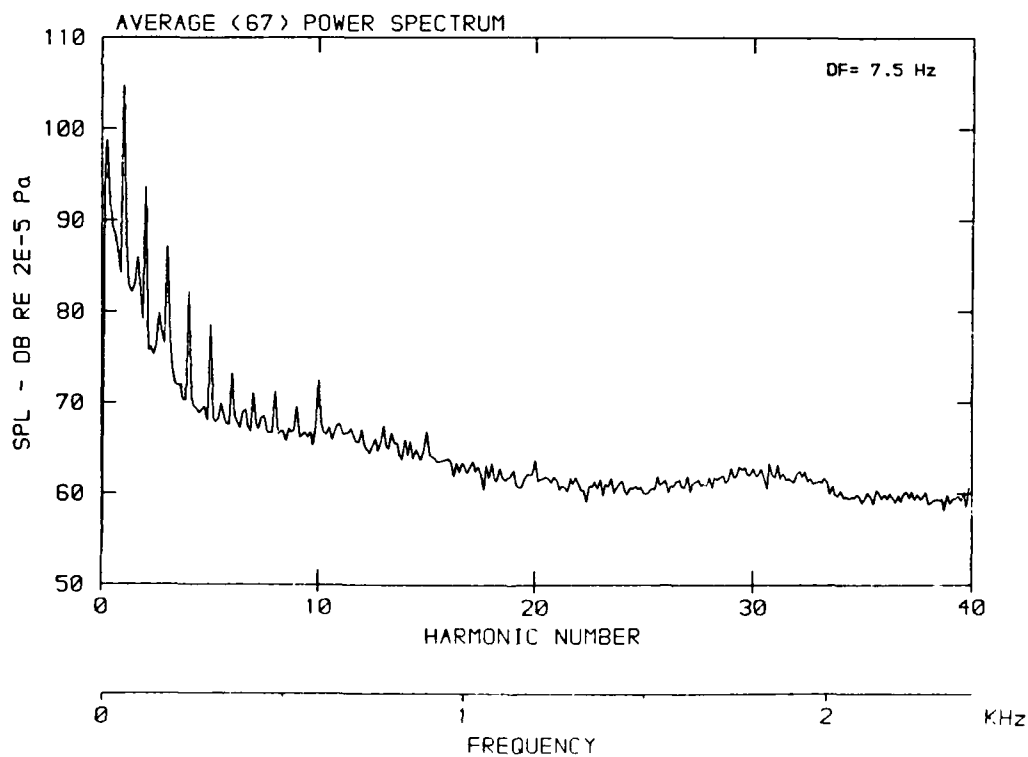
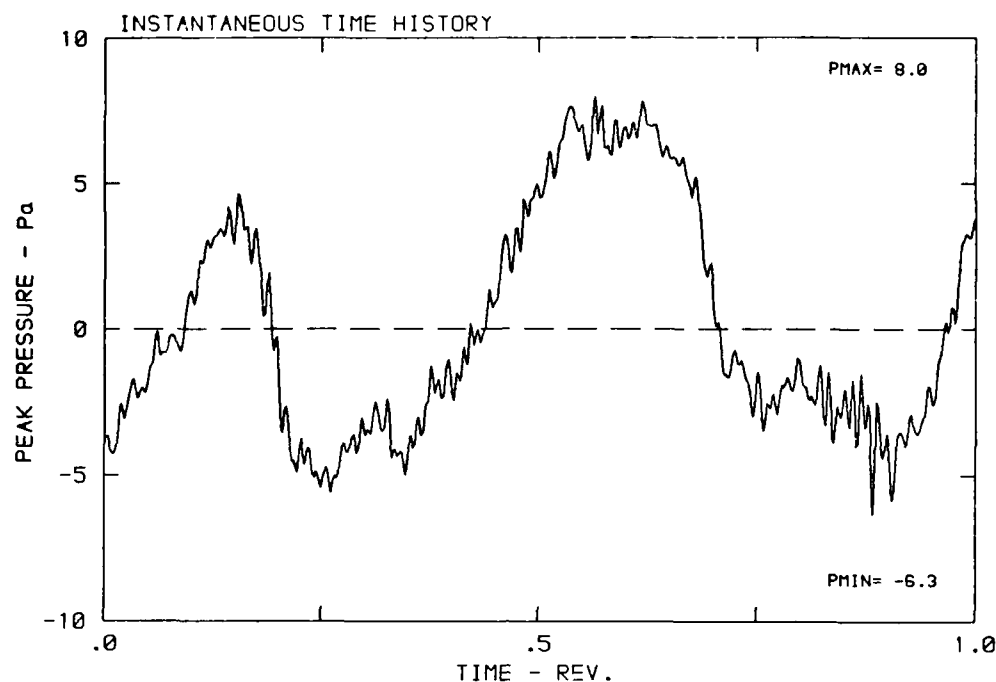
DATA POINT: DC-1 RUN: 115 MP: 9

β : 29.5° MH: .5765 n: 1800 rpm v/u : .228 ϕ : .0° T: 288.8 K



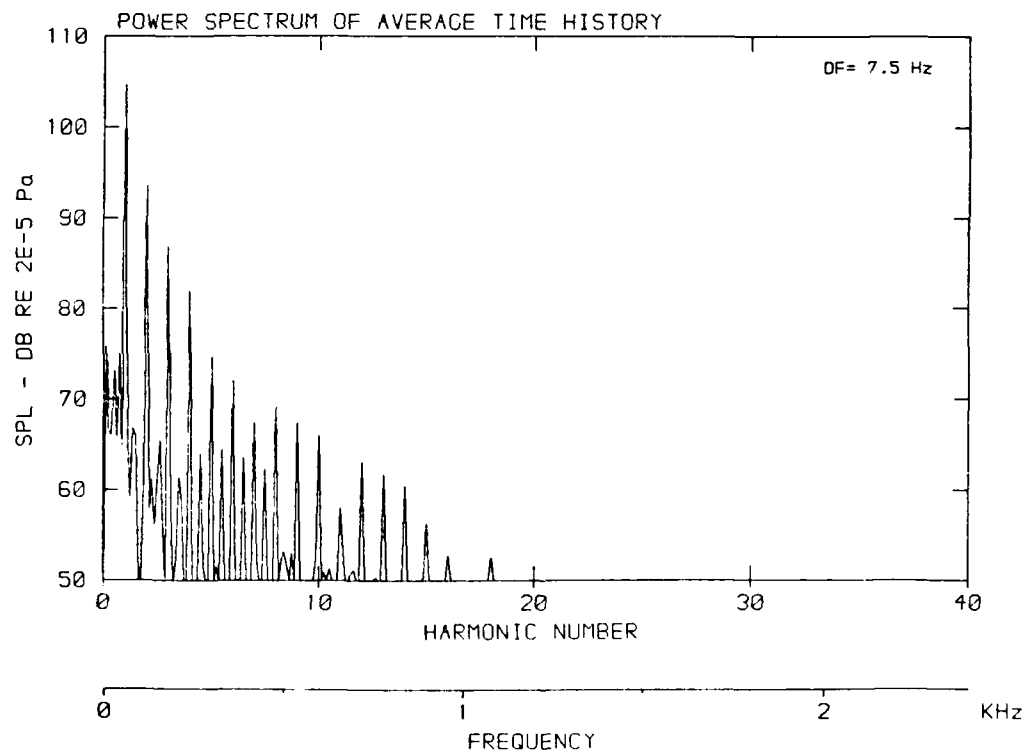
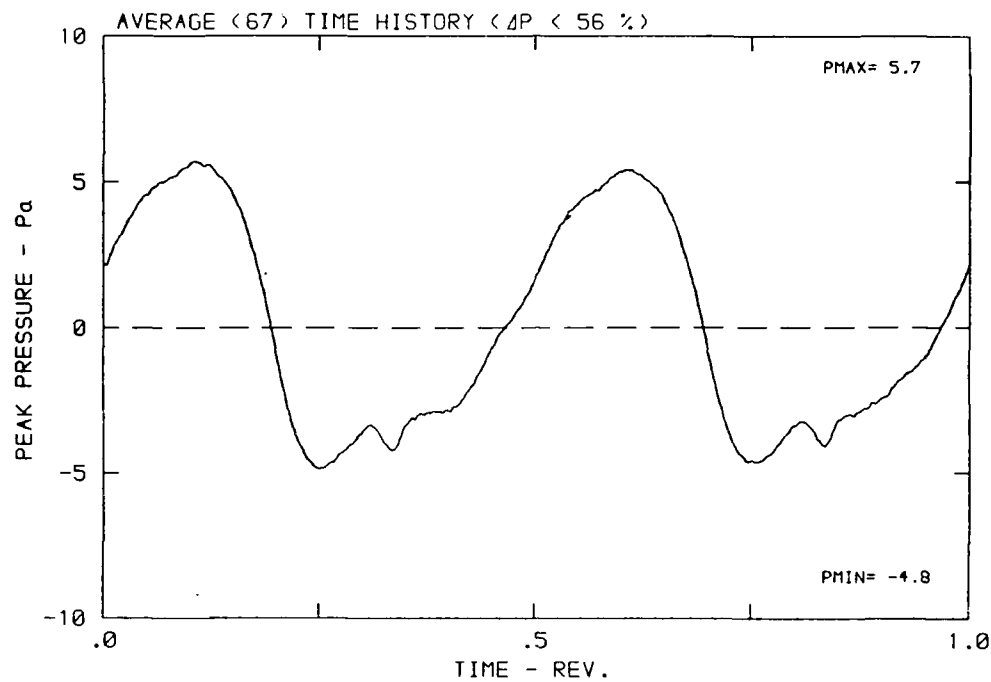
DATA POINT: DC-2 RUN: 111 MP: 1

β : 29.5° MH: .5825 n: 1800 rpm v/u: .268 ϕ : .0° T: 288.2 K



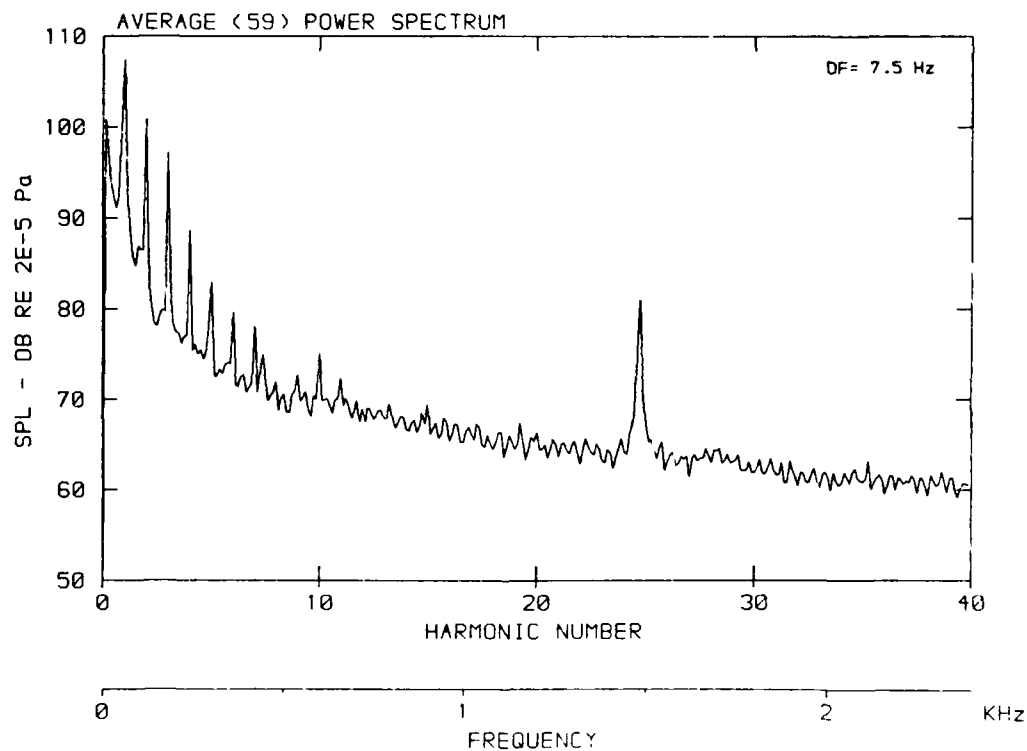
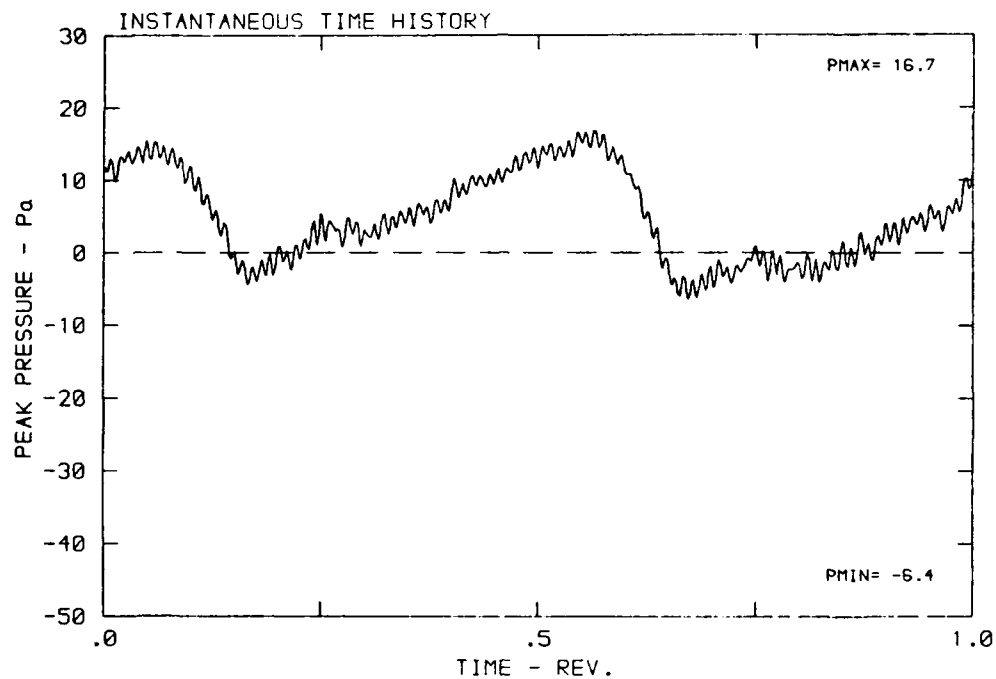
DATA POINT: DC-2 RUN: 111 MP: 1

β : 29.5° MH: .5825 n: 1800 rpm v/u: .268 ϕ : .0° T: 288.2 K



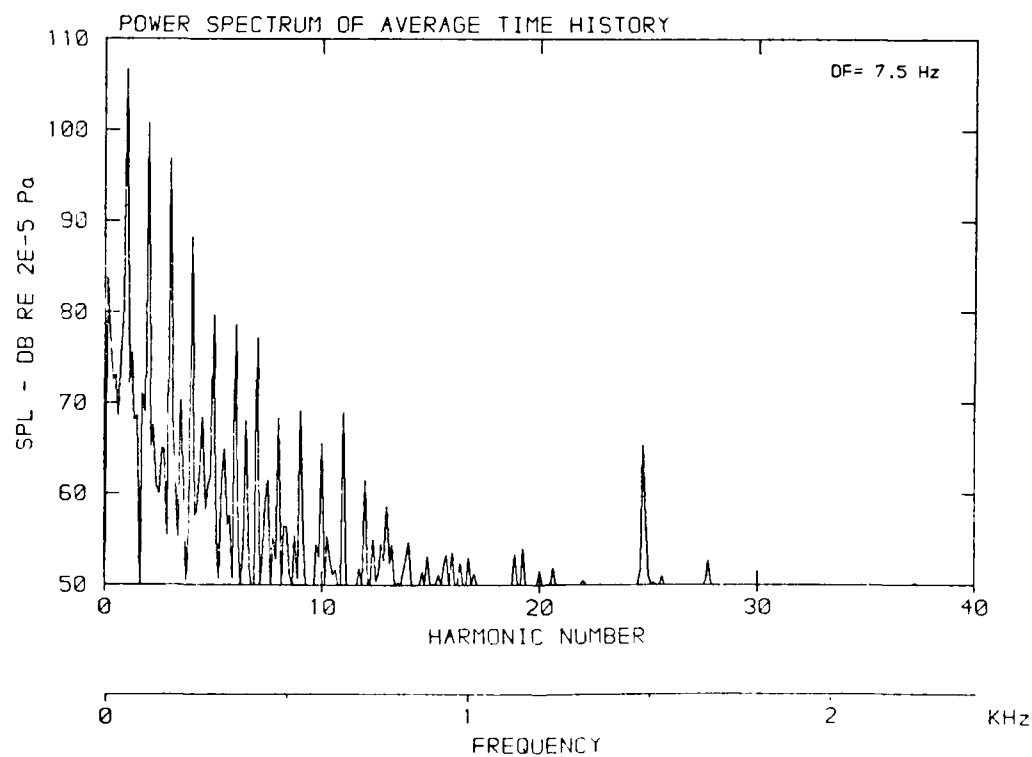
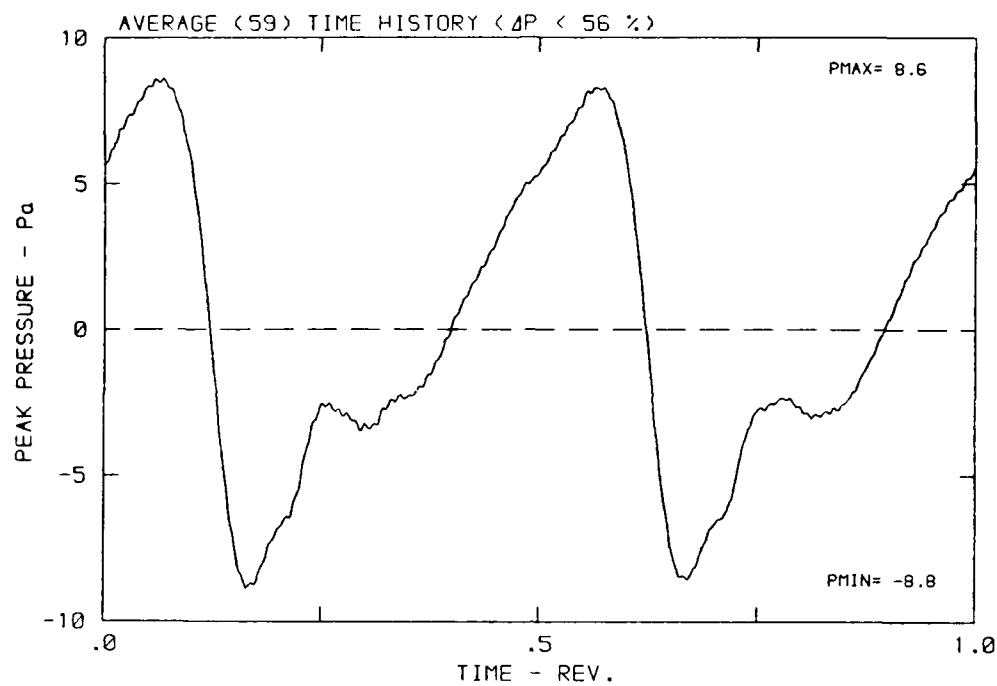
DATA POINT: DC-2 RUN: 111 MP: 2

β : 29.5° MH: .5825 n: 1800 rpm v/u: .268 ϕ : .0° T: 288.2 K



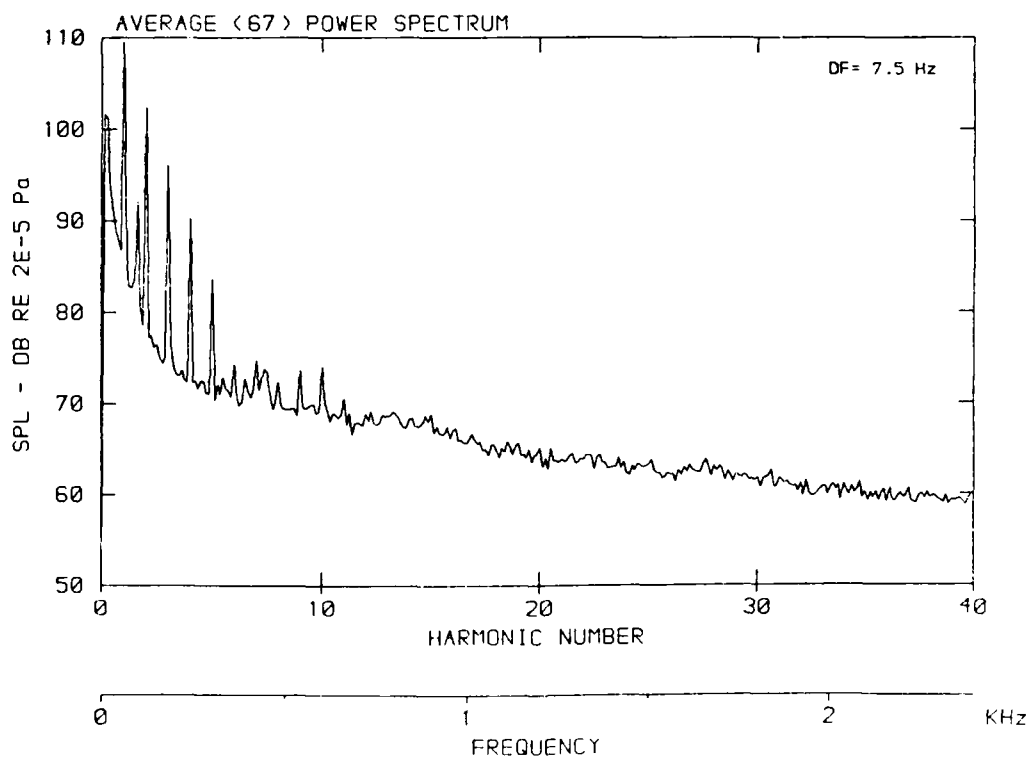
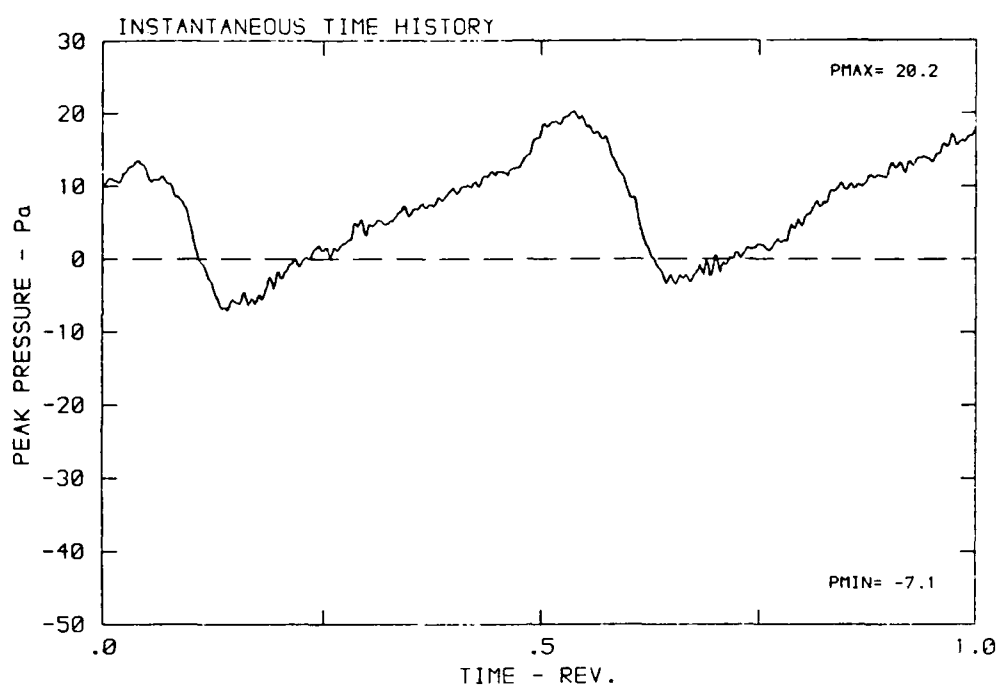
DATA POINT: DC-2 RUN: 111 MP: 2

β : 29.5° MH: .5825 n: 1800 rpm v/u: .268 ϕ : .0° T: 288.2 K



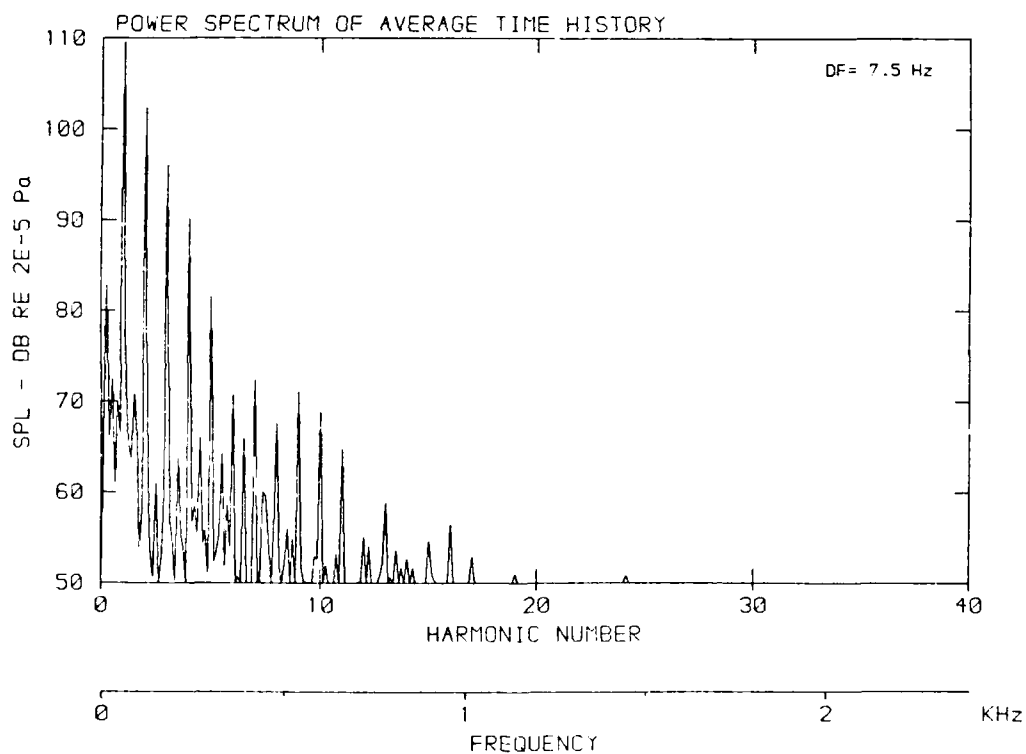
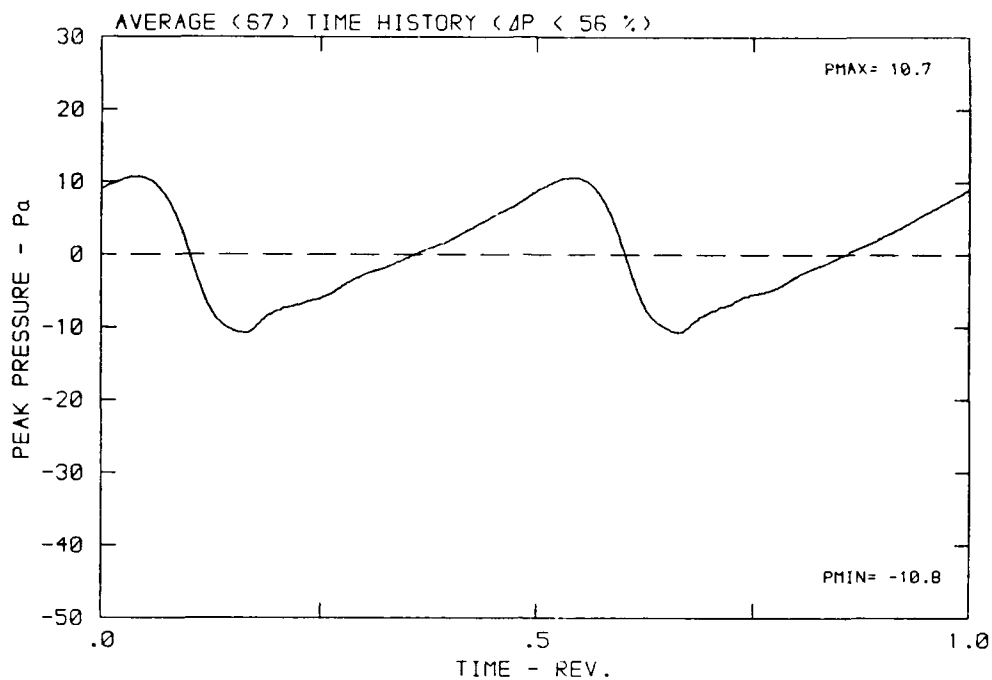
DATA POINT: DC-2 RUN: 111 MP: 3

β : 29.5° MH: .5825 n: 1800 rpm v/u: .268 ϕ : .0° T: 289.2 K



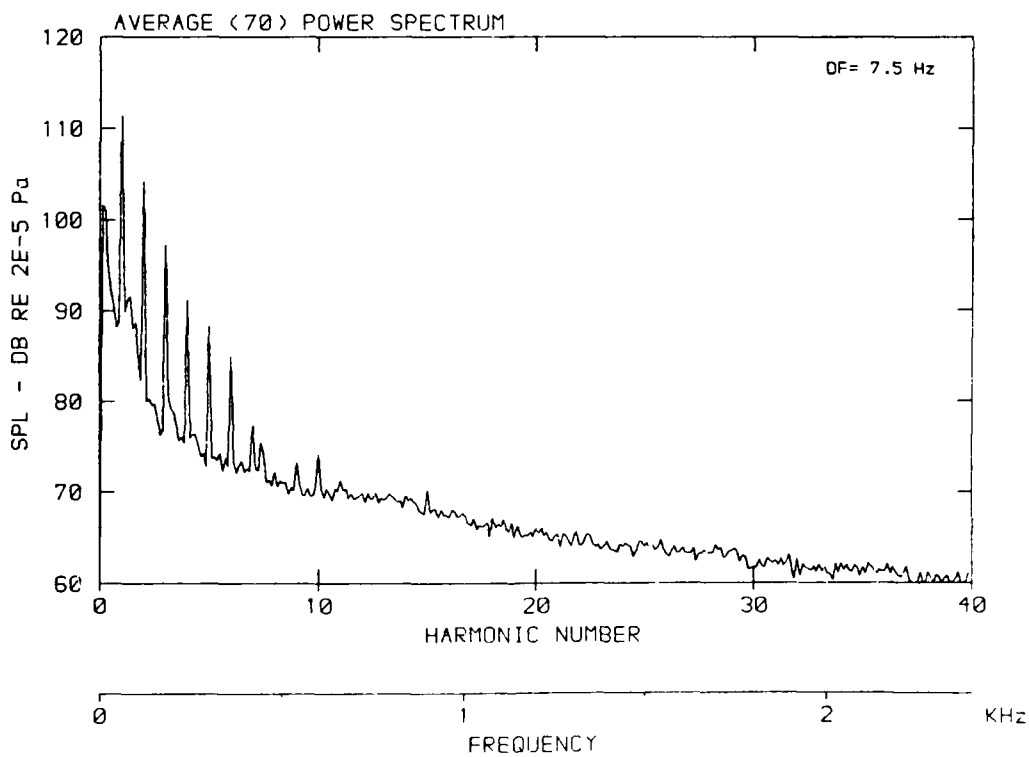
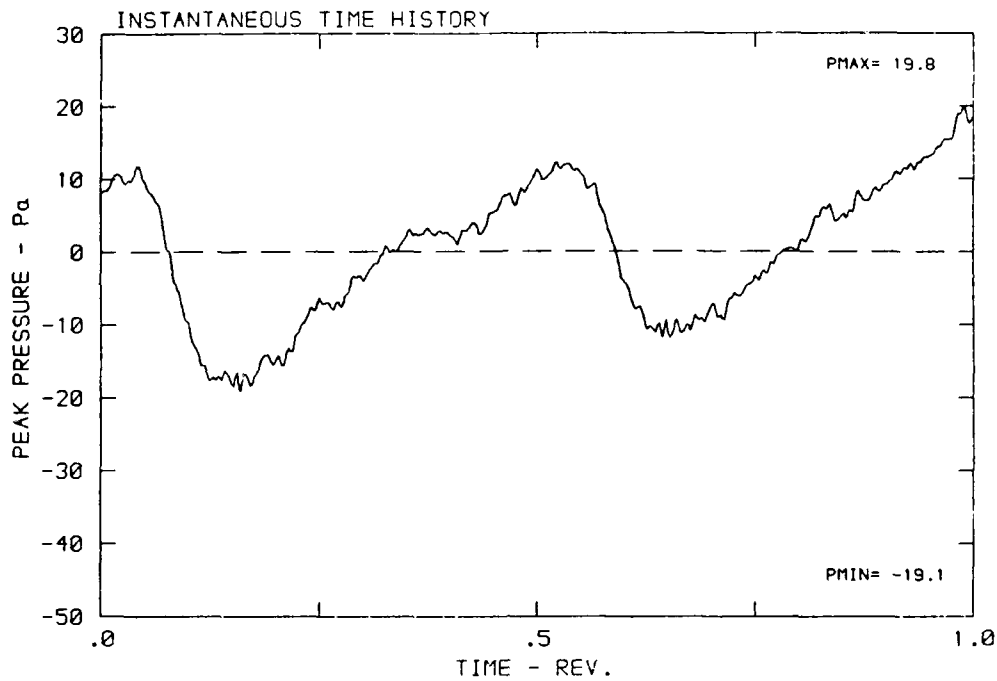
DATA POINT: DC-2 RUN: 111 MP: 3

β : 29.5° MH: .5825 n: 1800 rpm v/u : .268 ϕ : .0° T: 288.2 K



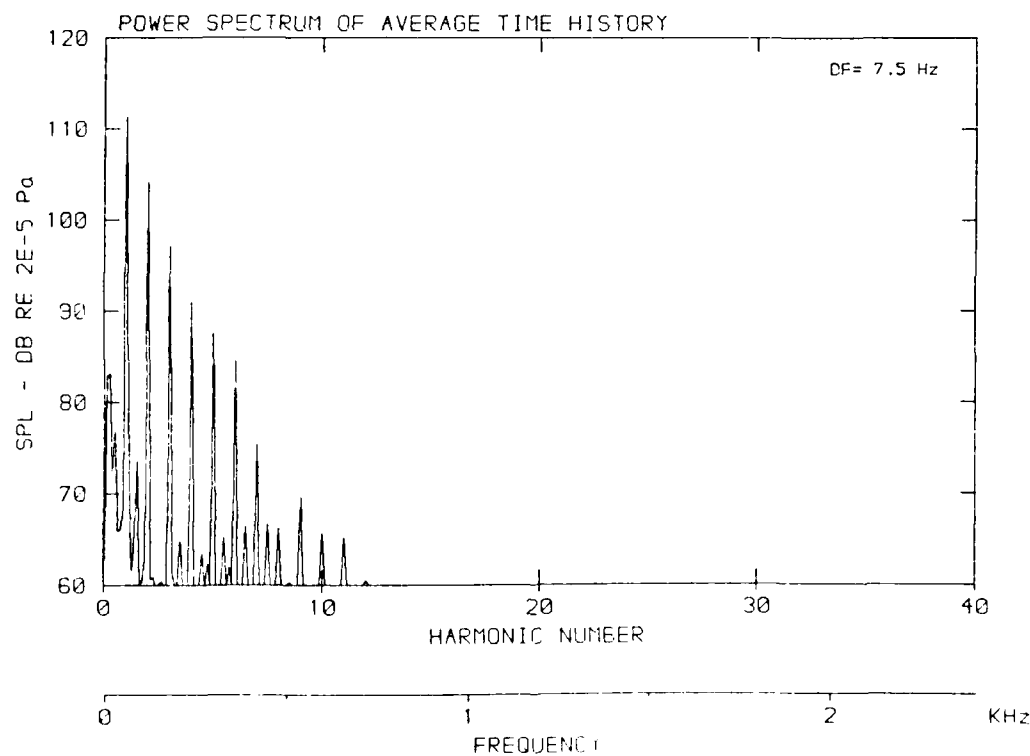
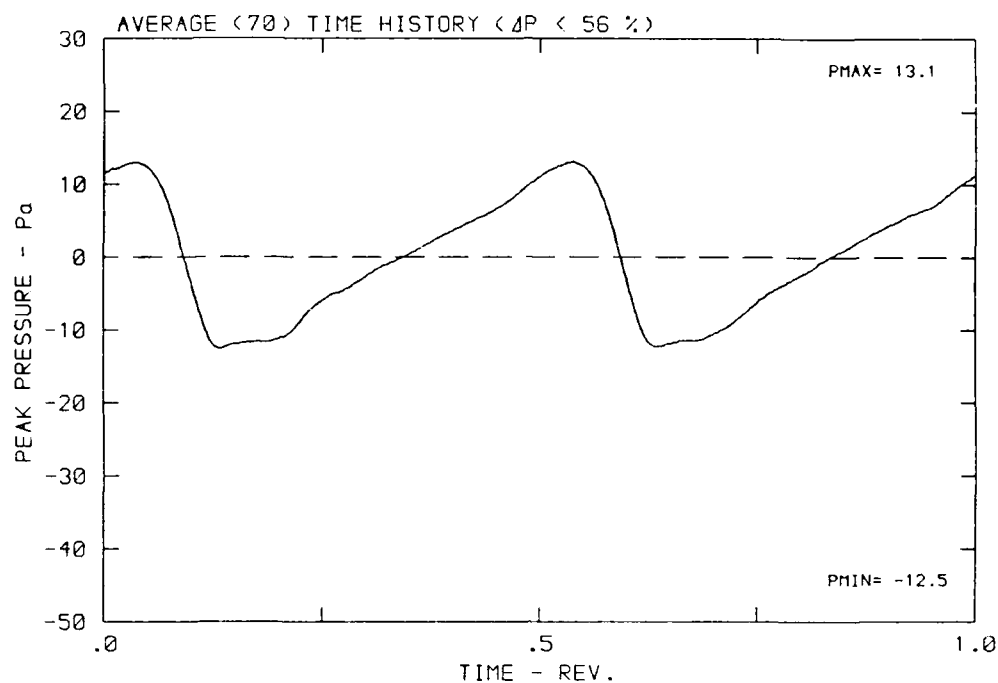
DATA POINT: DC-2 RUN: 111 MP: 4

β : 29.5° MH: .5825 n: 1800 rpm v/u : .268 ϕ : .0° T: 288.2 K



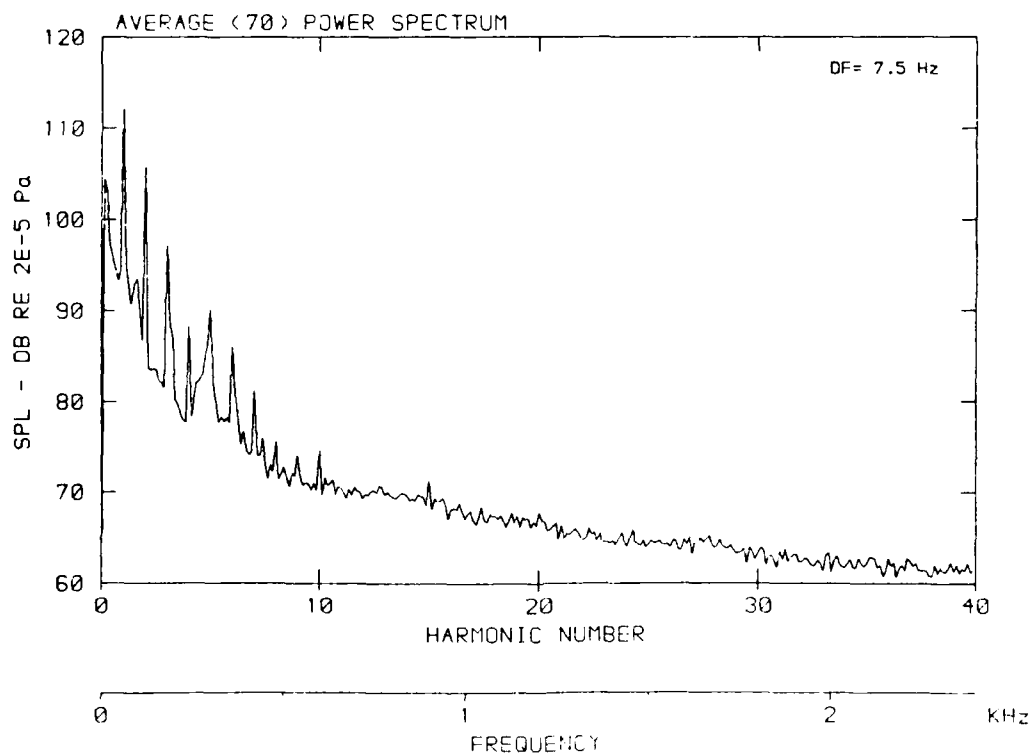
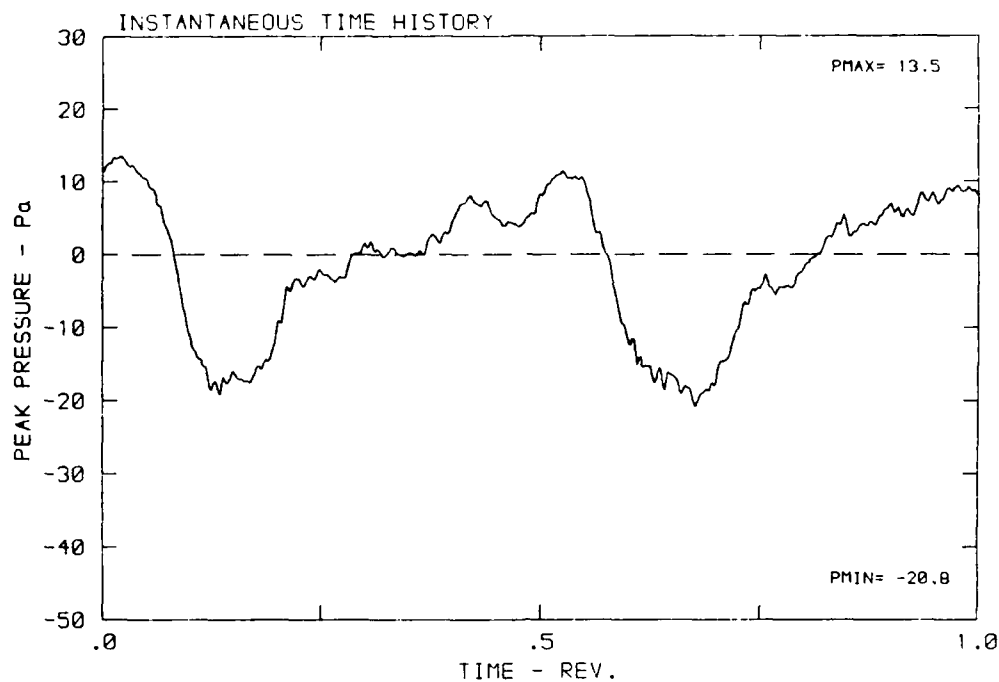
DATA POINT: DC-2 RUN: 111 MP: 4

β : 29.5° MH: .5825 n: 1800 rpm v/u: .268 ϕ : .0° T: 288.2 K



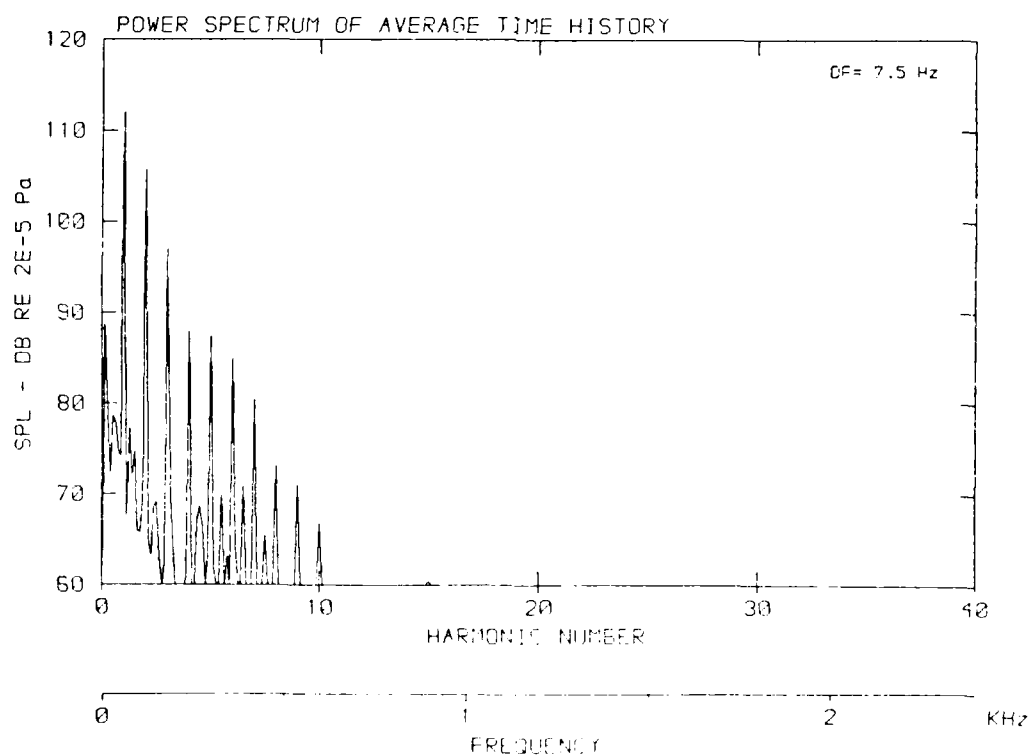
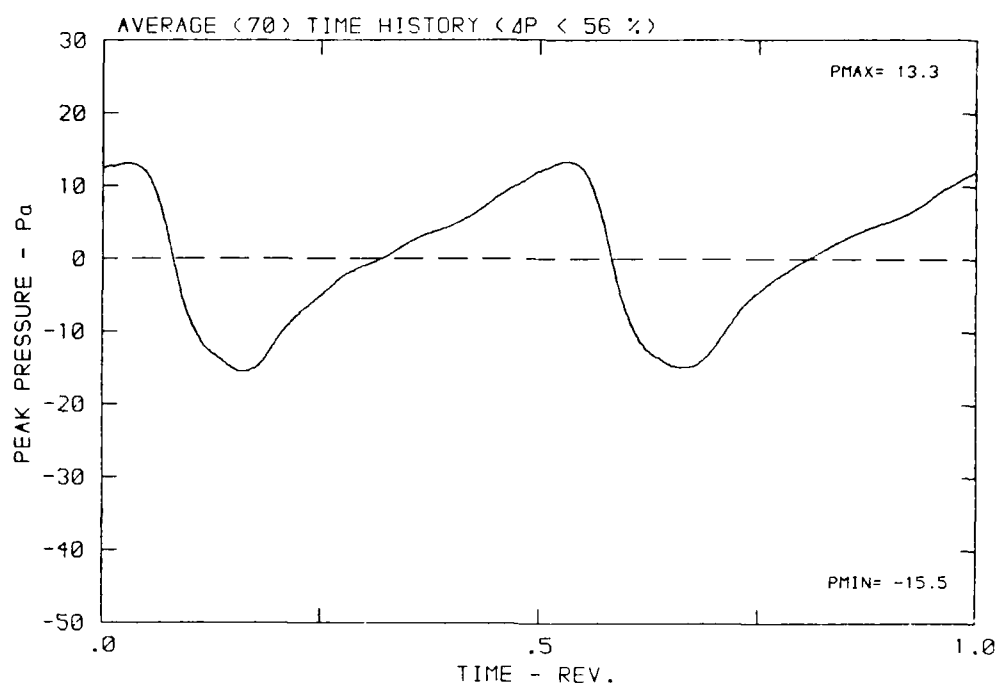
DATA POINT: DC-2 RUN: 111 MP: 5

β : 29.5° MH: .5825 n: 1800 rpm v/u: .268 ϕ : .0° T: 288.2 K



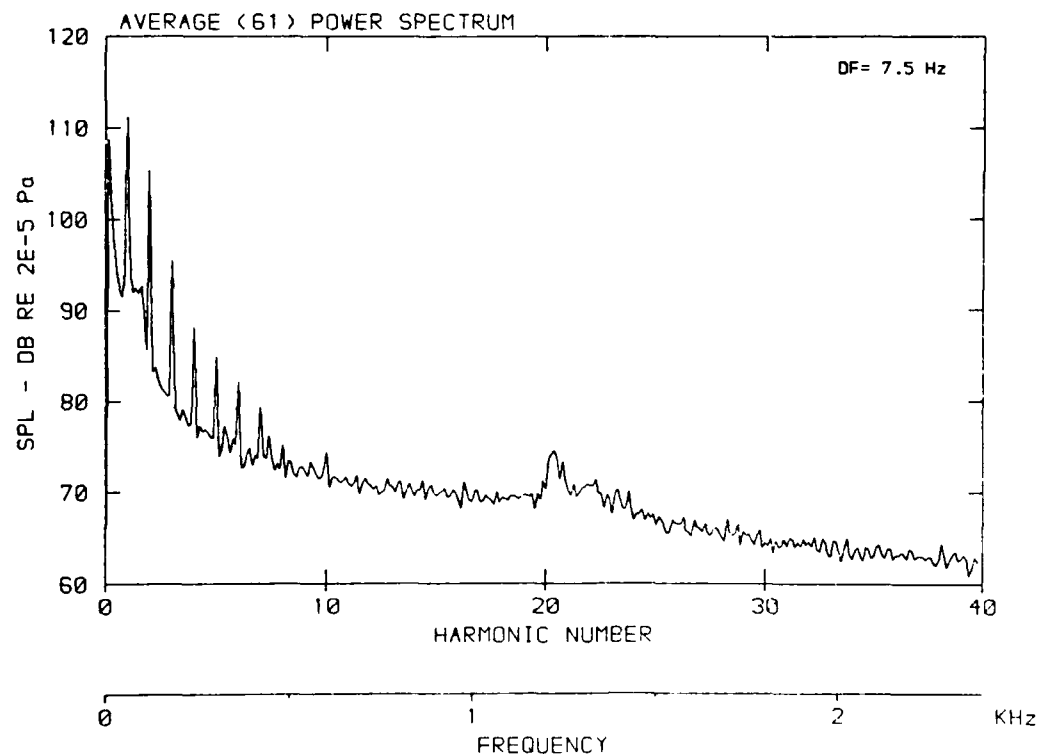
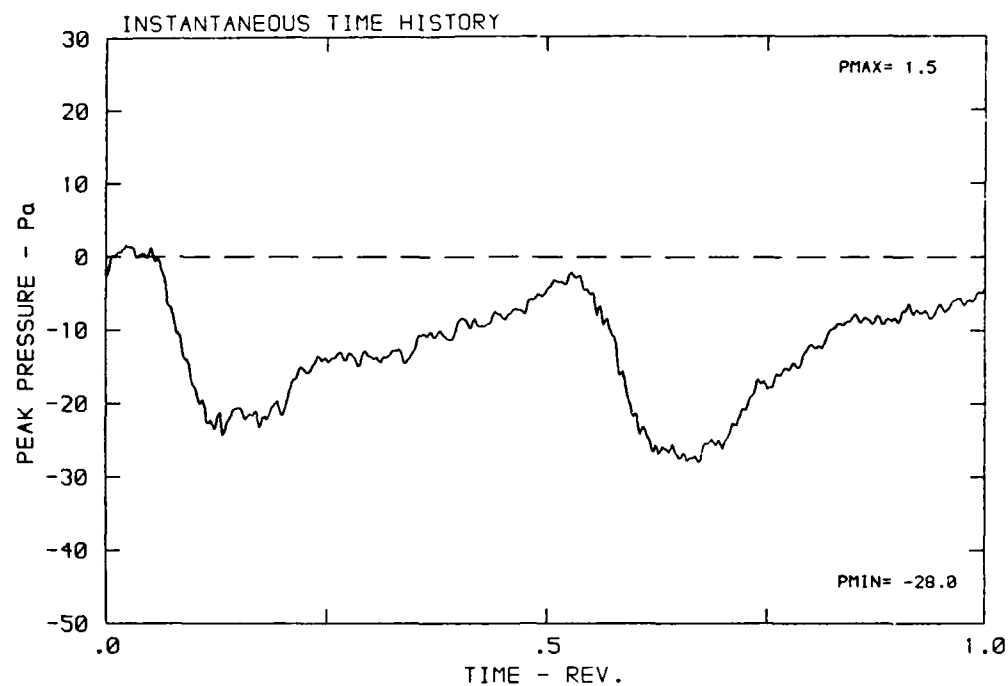
DATA POINT: DC-2 RUN: 111 MP: 5

β : 29.5° MH: .5825 n: 1800 rpm v/u : .268 ϕ : .0° T: 288.2 K



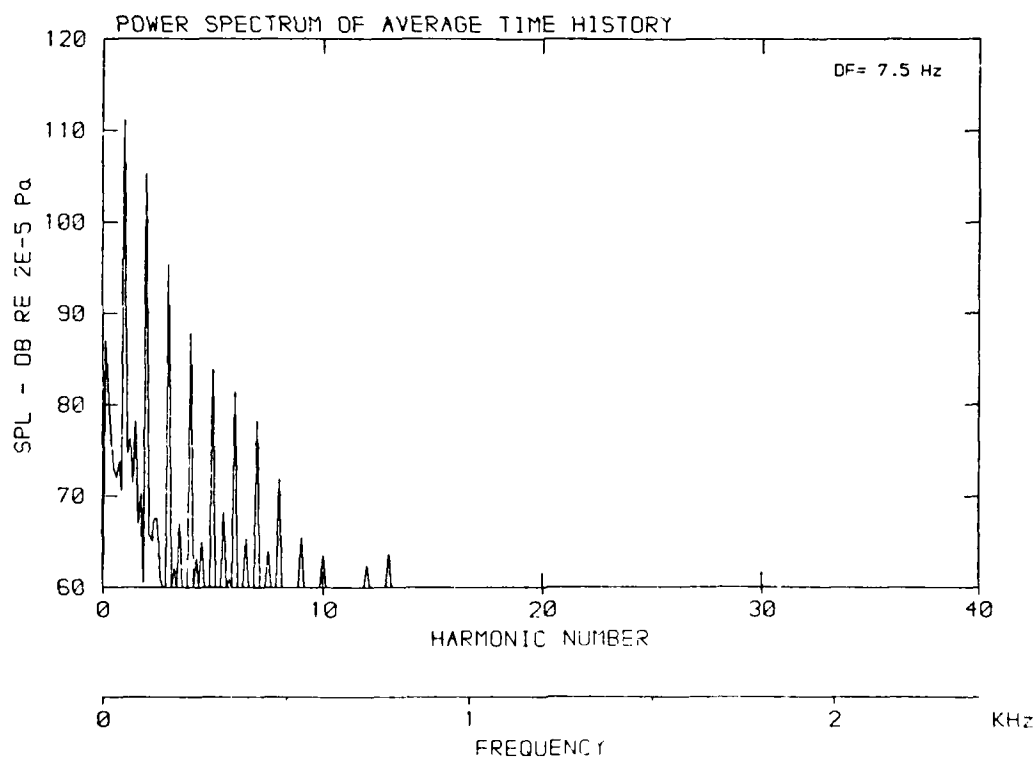
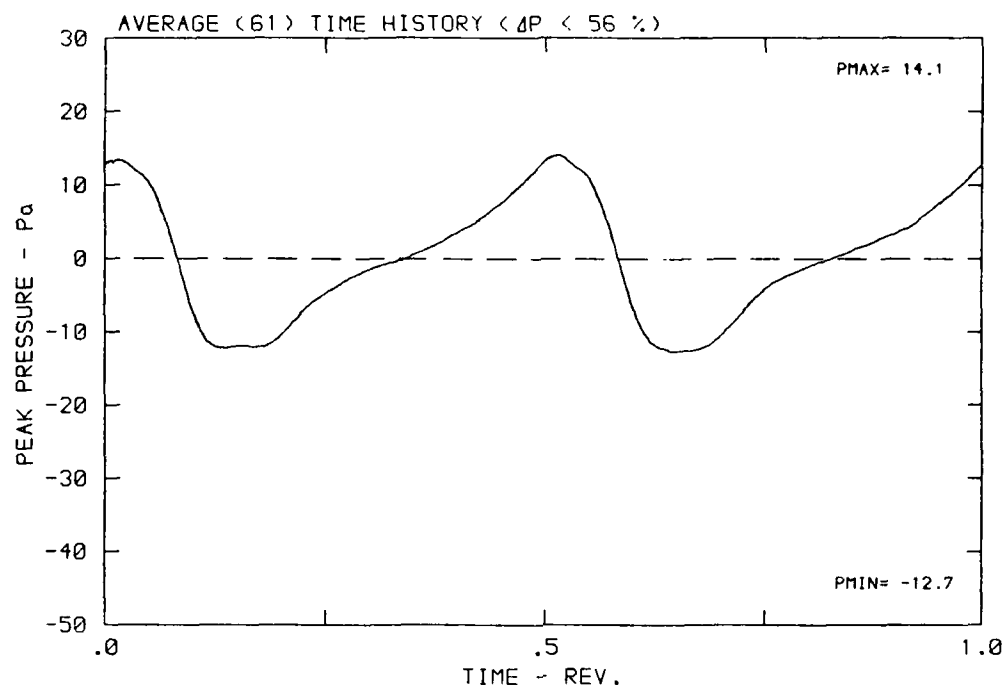
DATA POINT: DC-2 RUN: 111 MP: 6

β : 29.5° MH: .5825 n: 1800 rpm v/u: .268 ϕ : .0° T: 238.2 K



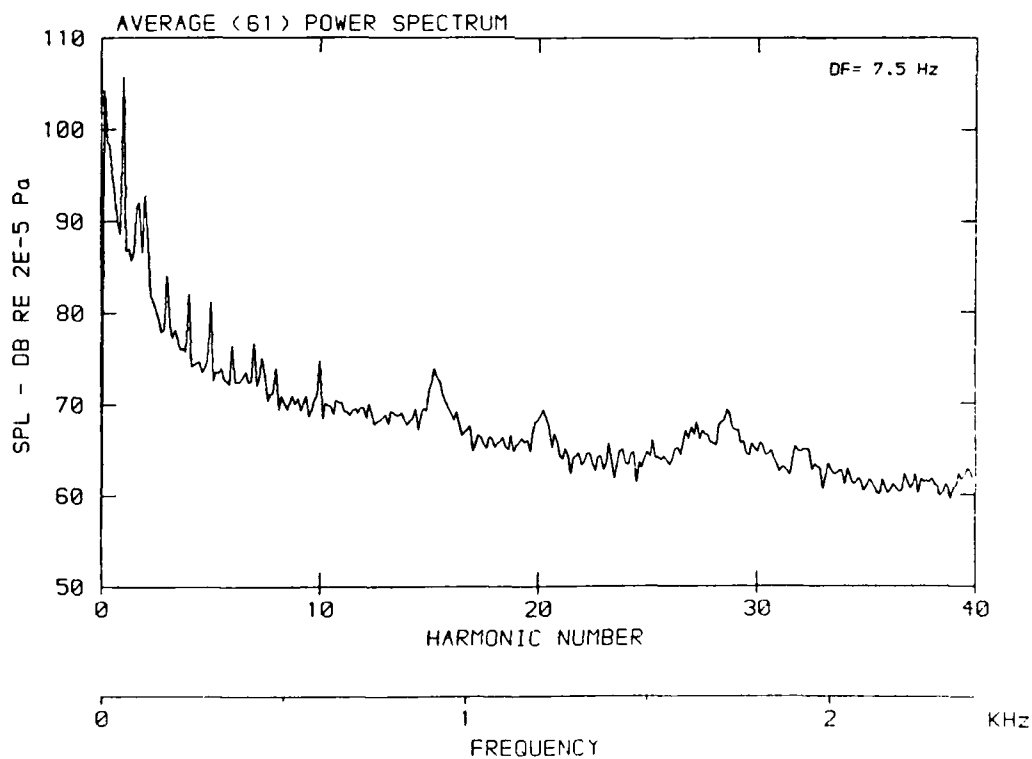
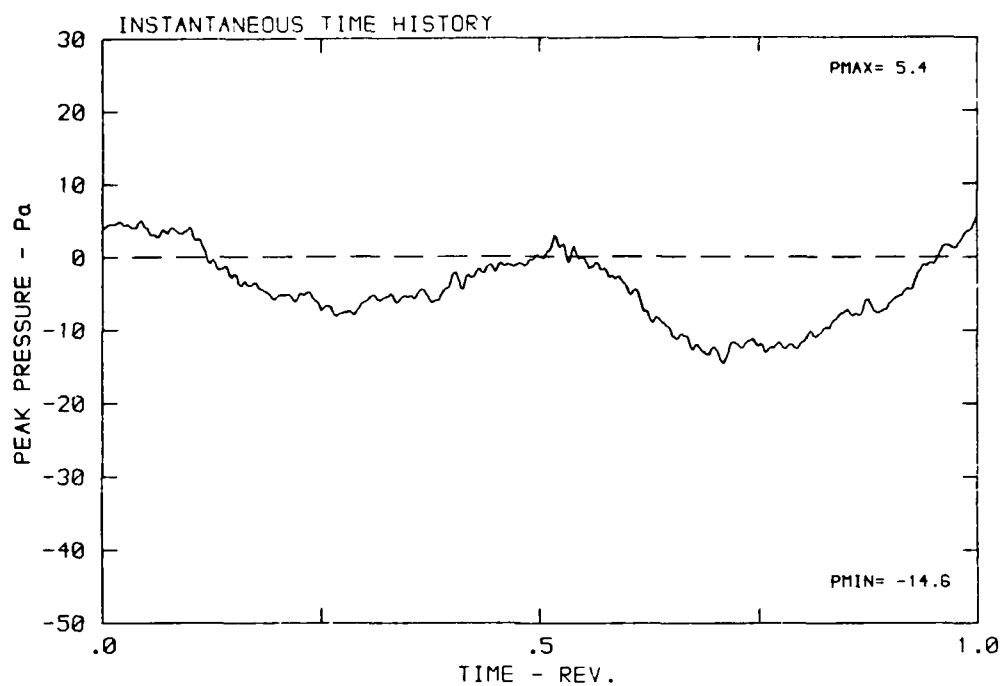
DATA POINT: DC-2 RUN: 111 MP: 6

β : 29.5° MH: .5825 n: 1800 rpm v/u : .268 ϕ : .0° T: 288.2 K



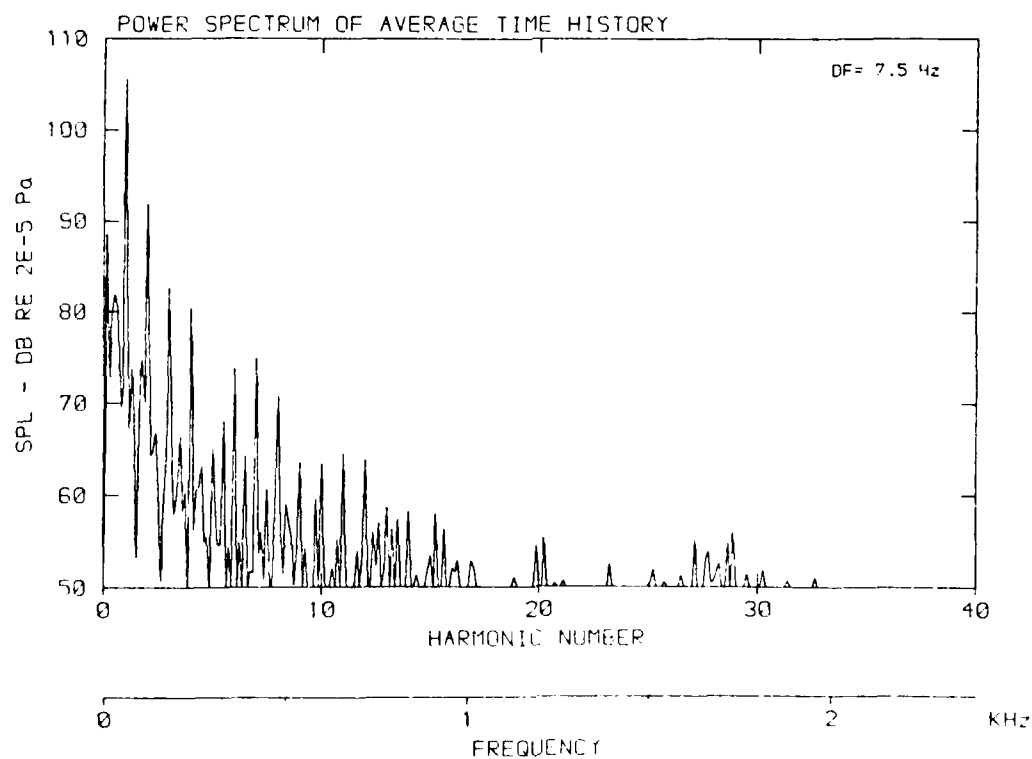
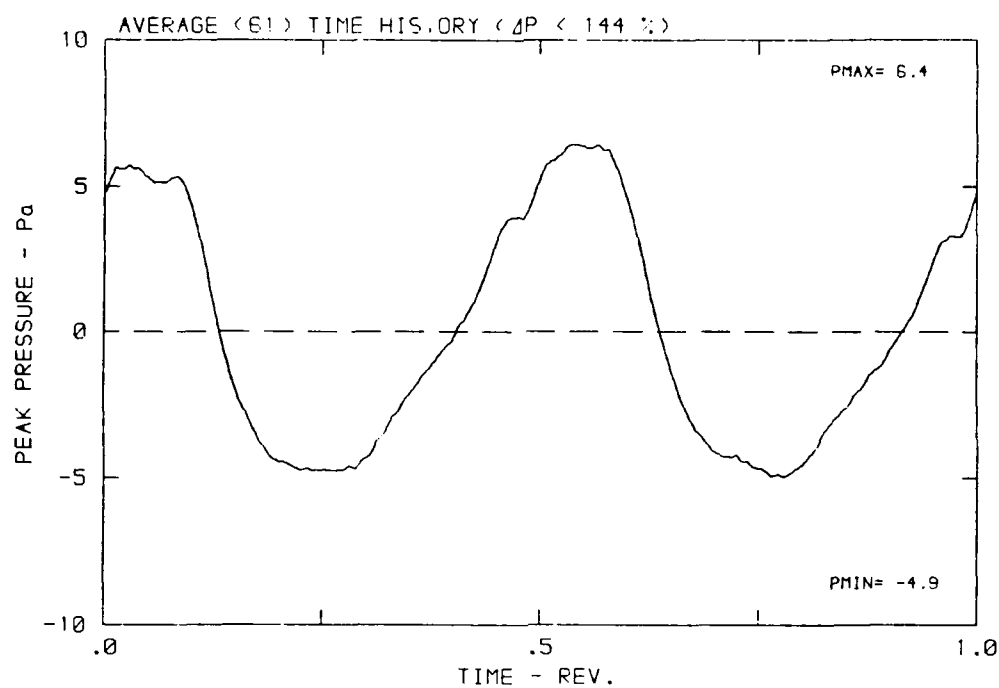
DATA POINT: DC-2 RUN: 111 MP: 7

β : 29.5° MH: .5825 n: 1800 rpm ν_{cu} : .268 ϕ : .0° T: 293.2 K



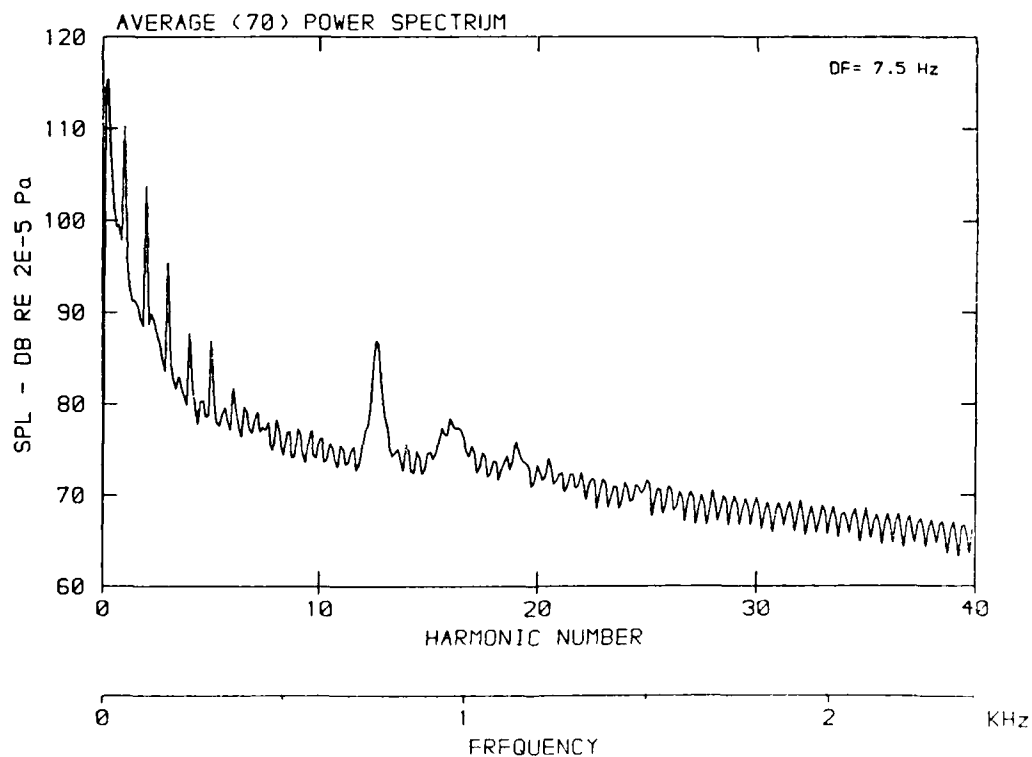
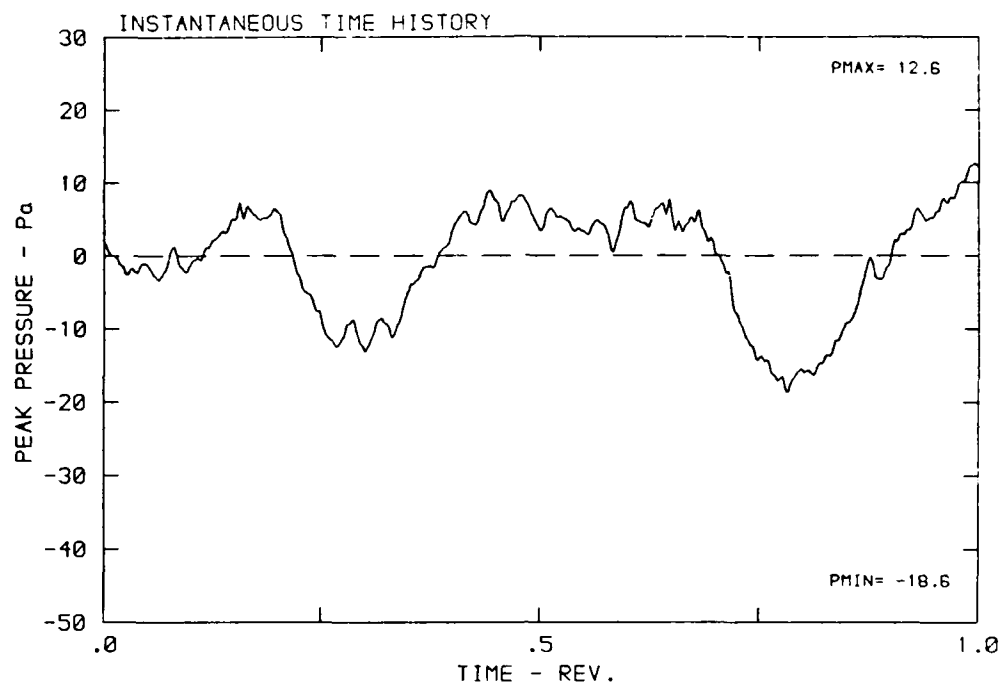
DATA POINT: DC-2 RUN: 111 MP: 7

β : 29.5° MH: .5825 n: 1800 rpm v/u : .268 ϕ : .0° T: 288.2 K



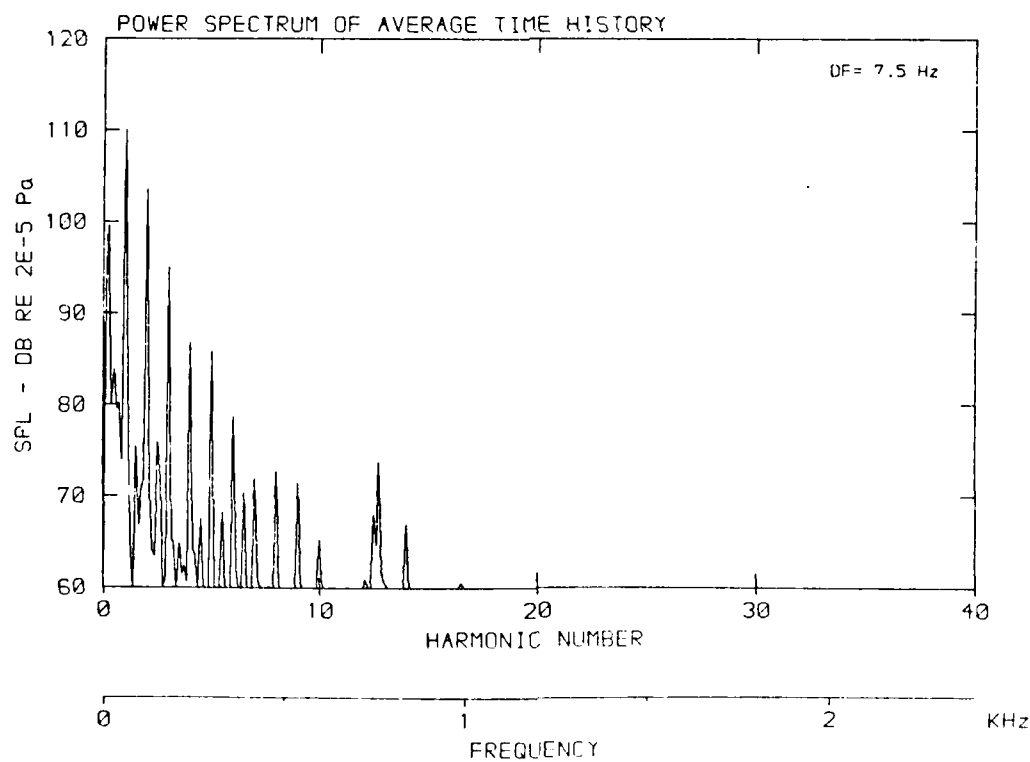
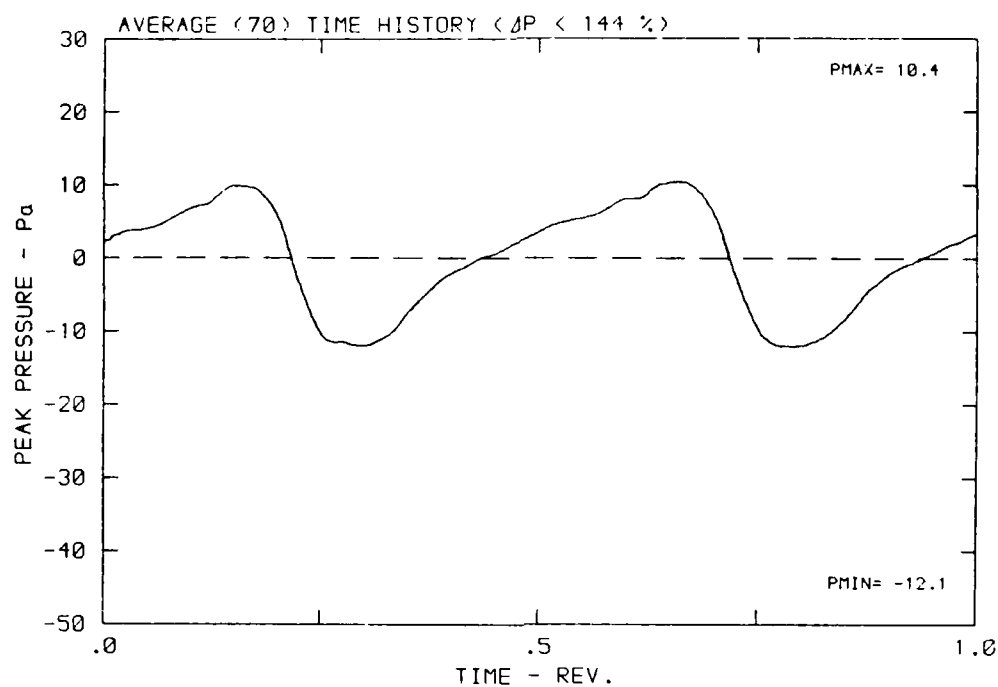
DATA POINT: DC-2 RUN: 111 MP: 9

β : 29.5° MH: .5825 n: 1800 rpm v/u: .268 ϕ : .0° T: 288.2 K



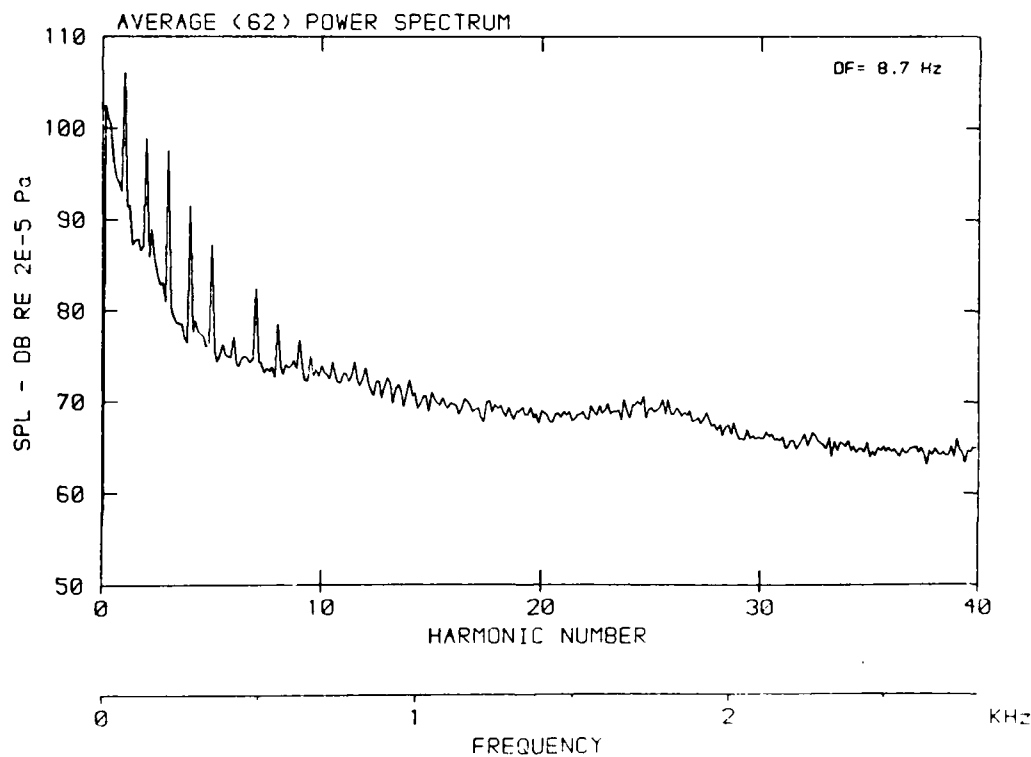
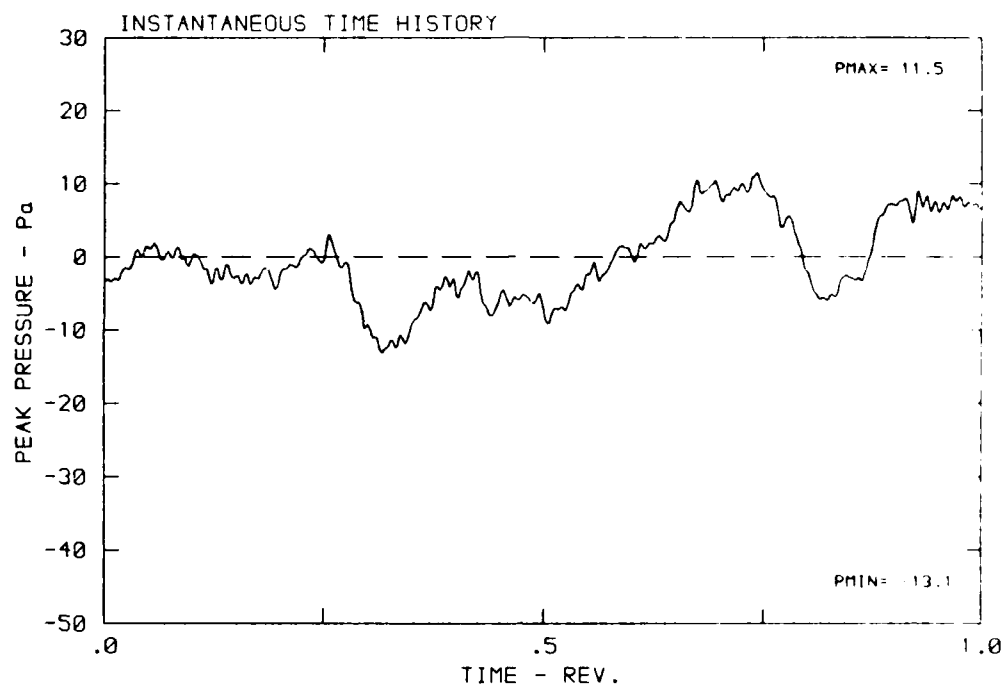
DATA POINT: DC-2 RUN: 111 MP: 9

β : 29.5° MH: .5825 n: 1800 rpm v/u: .268 ϕ : .0° T: 288.2 K



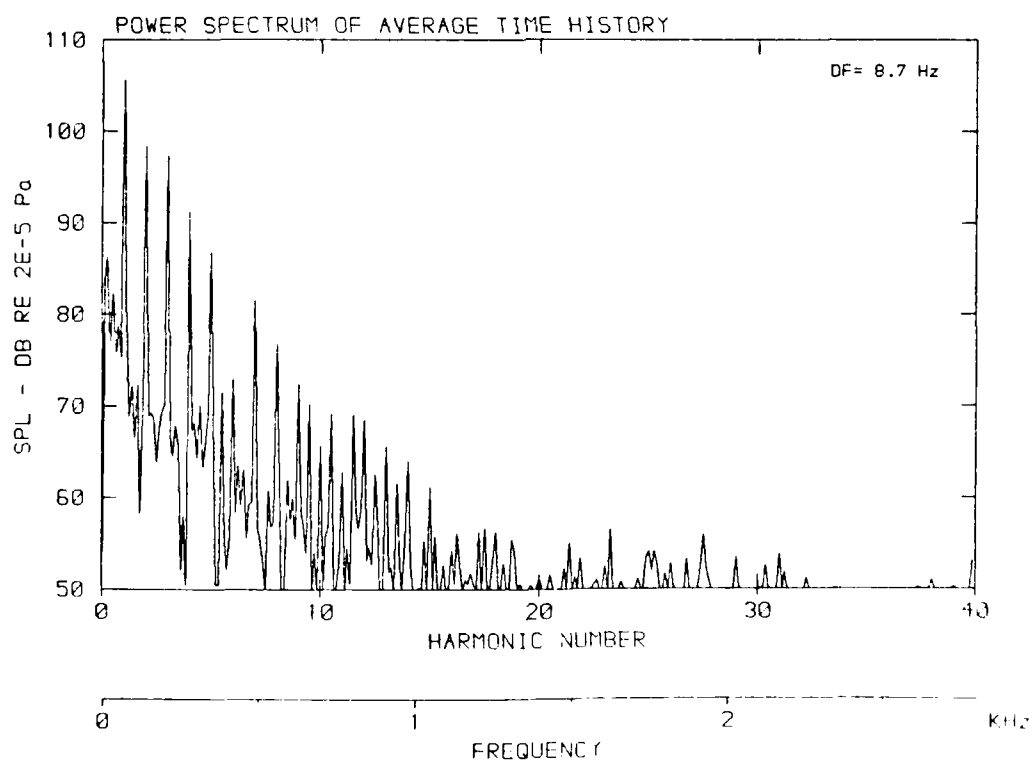
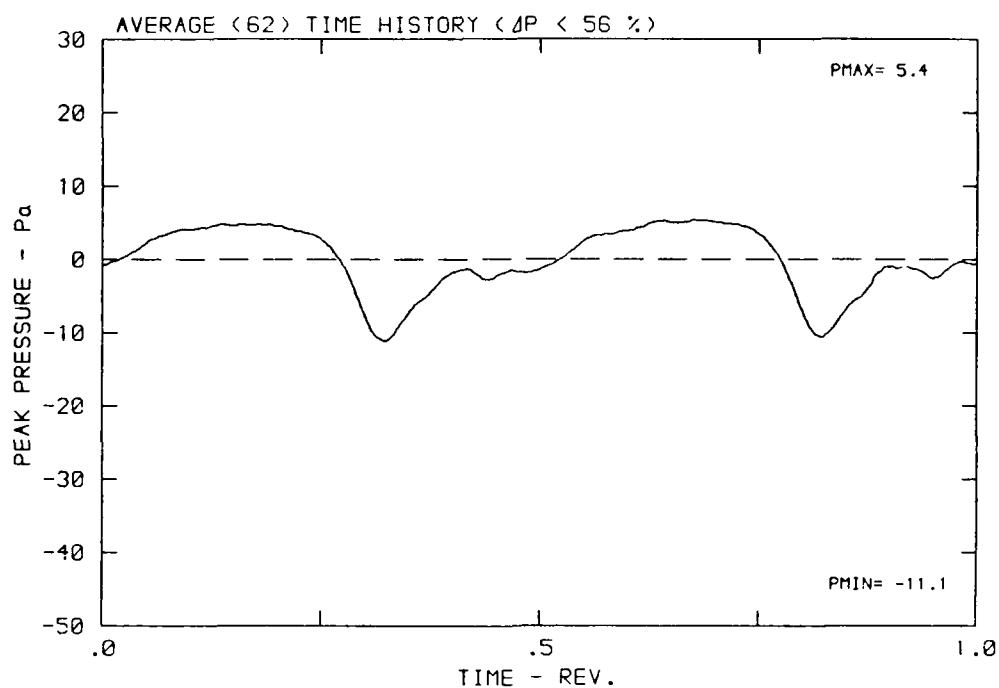
DATA POINT: DC-3 RUN: 114 MP: 1

β : 29.5° MH: .6841 n: 2100 rpm v/u: .299 ϕ : .0° T: 289.2 K



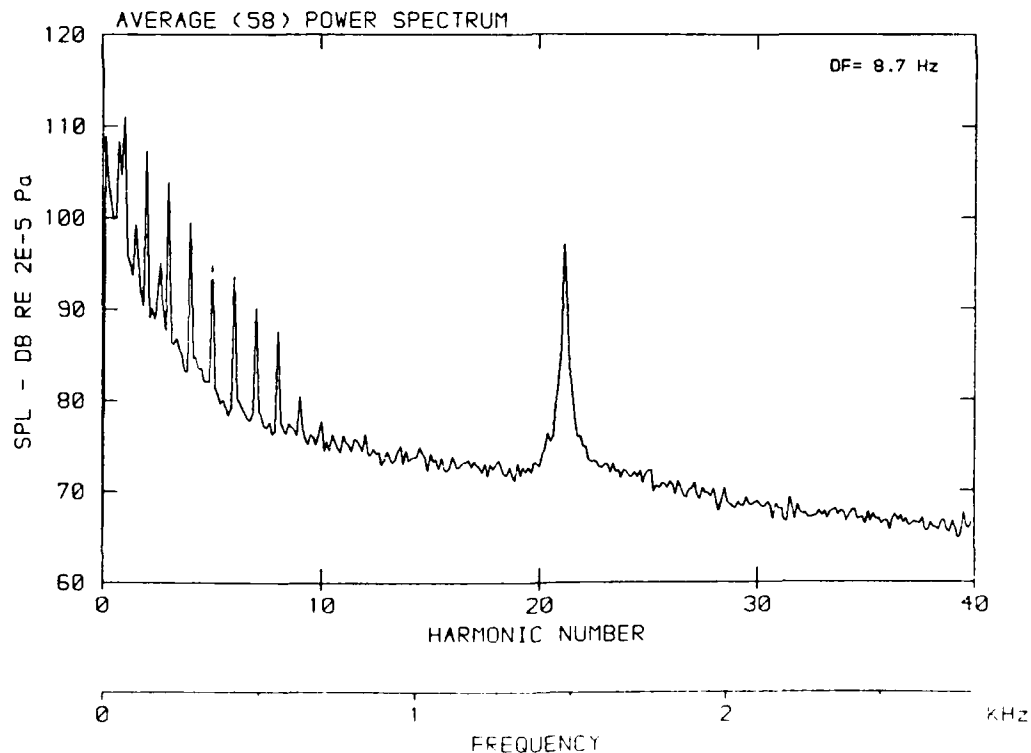
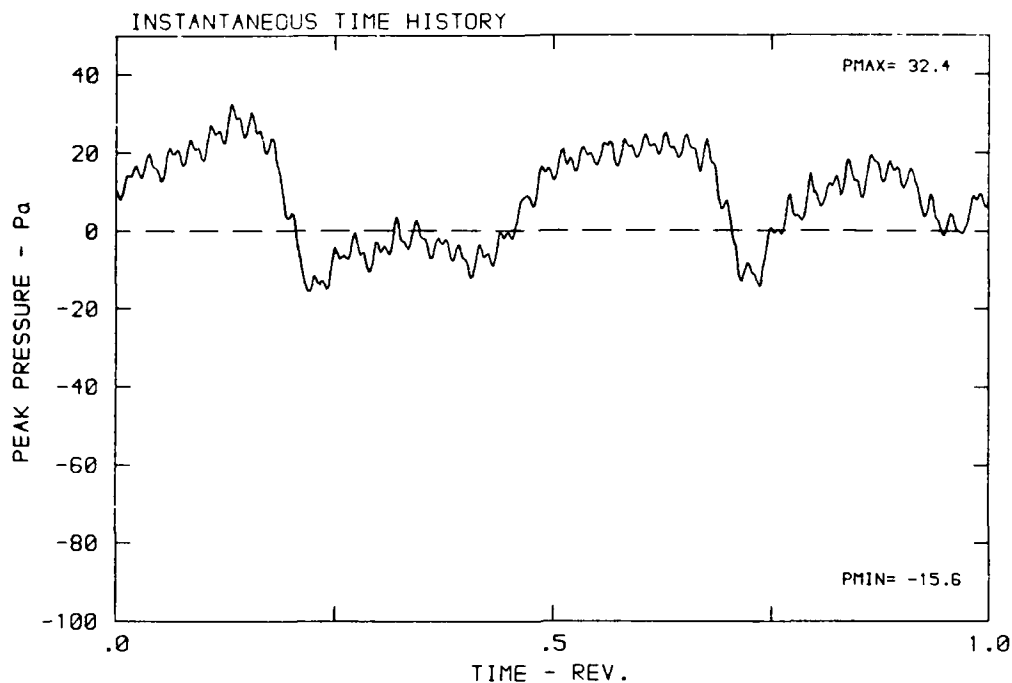
DATA POINT: DC-3 RUN: 114 MP: 1

β : 29.5° MH: .6841 n: 2100 rpm v/u : .299 ϕ : .0° T: 289.2 K



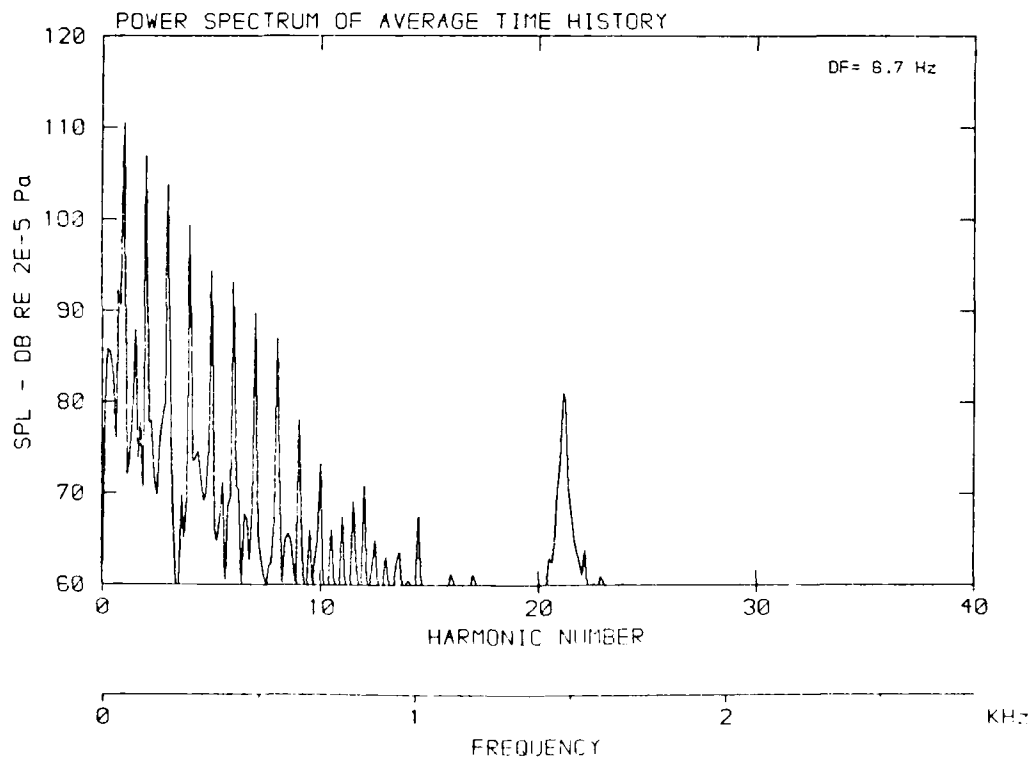
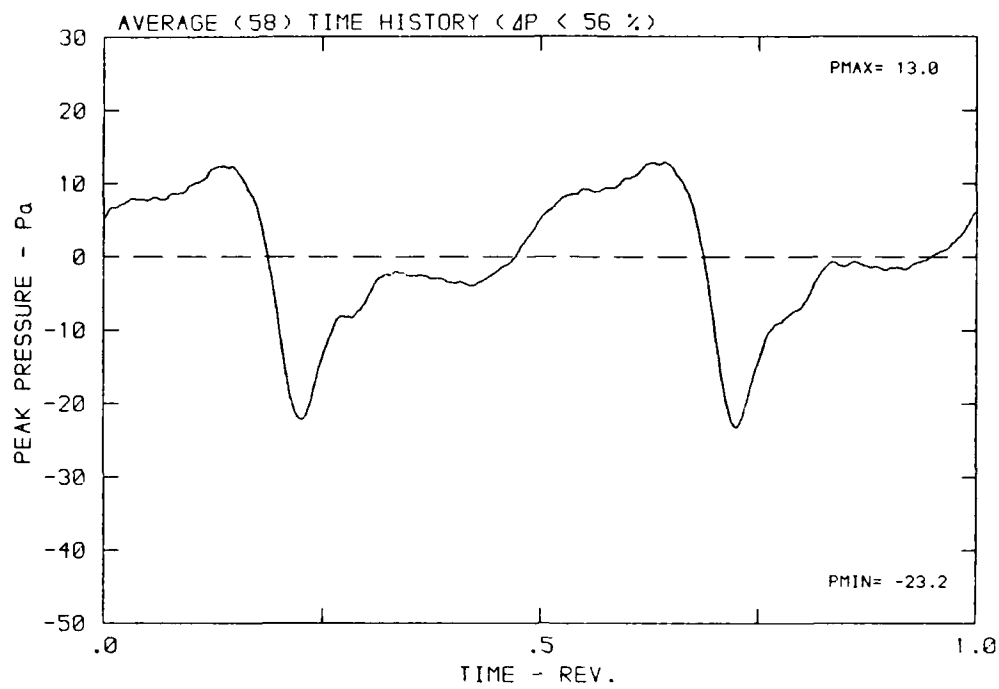
DATA POINT: DC-3 RUN: 114 MP: 2

β : 29.5° MH: .6841 n: 2100 rpm v/u: .299 ϕ : .0° T: 239.2 K



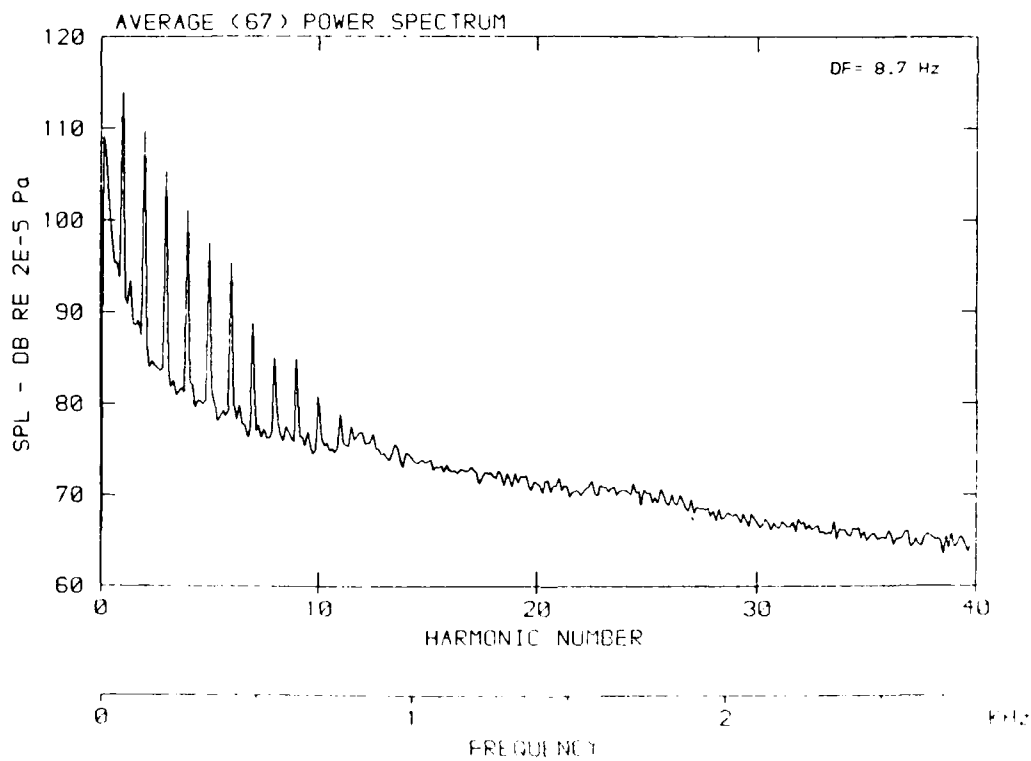
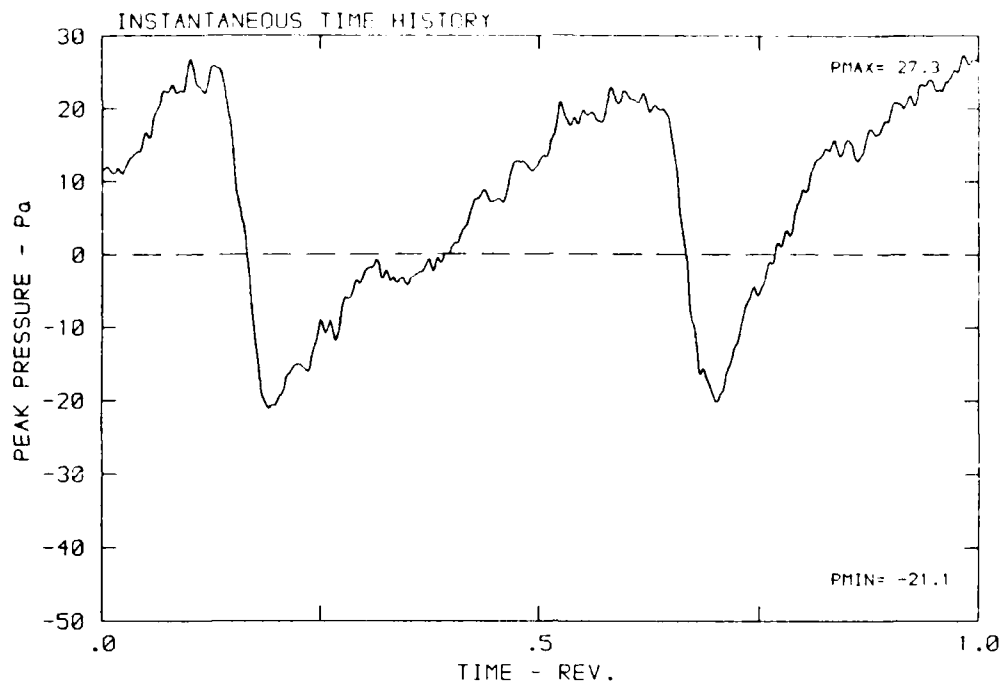
DATA POINT: DC-3 RUN: 114 MP: 2

β : 29.5° MH: .6841 n: 2100 rpm v/u: .299 ϕ : .0° T: 289.2 K



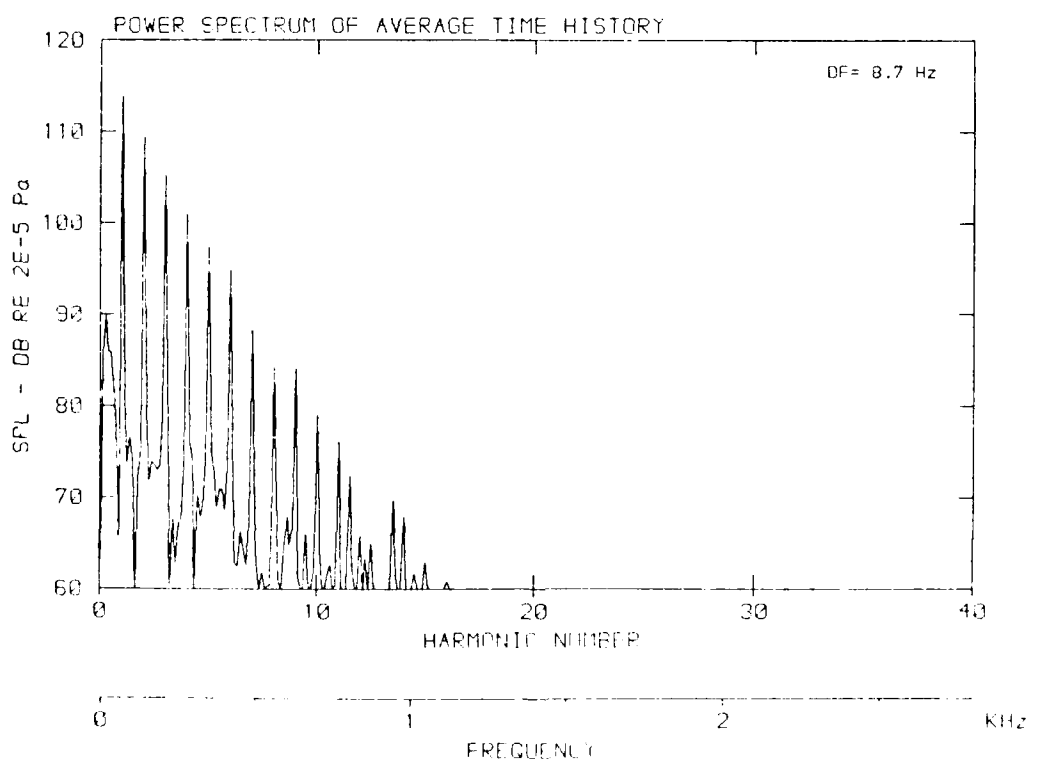
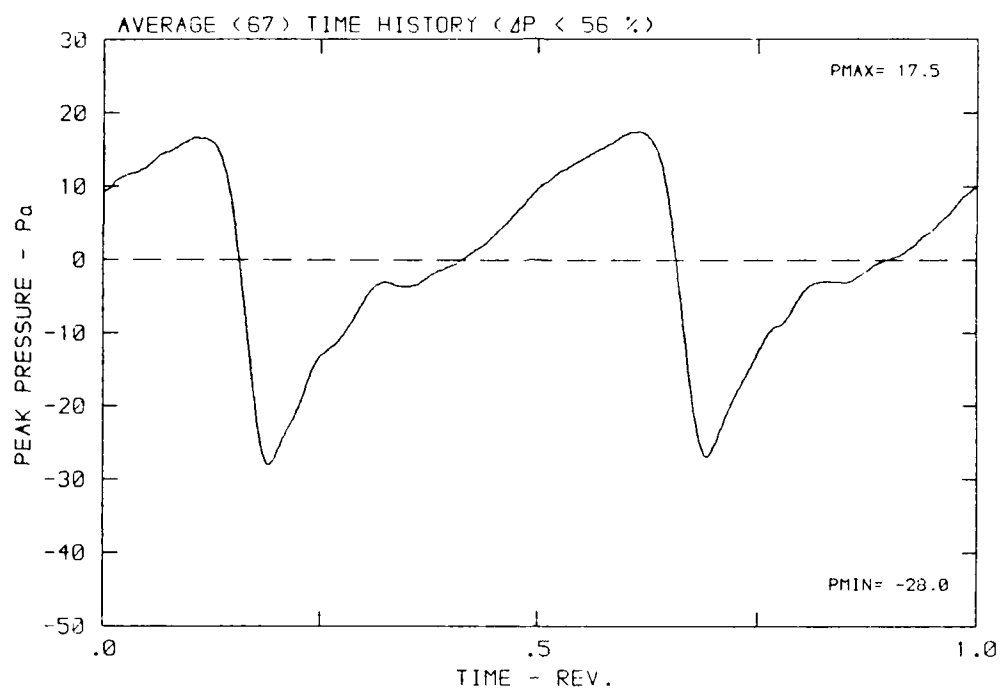
DATA POINT: DC-3 RUN: 114 MP: 3

β : 29.5° MH: .6841 n: 2100 rpm v_a : .299 ϕ : .0° T: 289.2 K



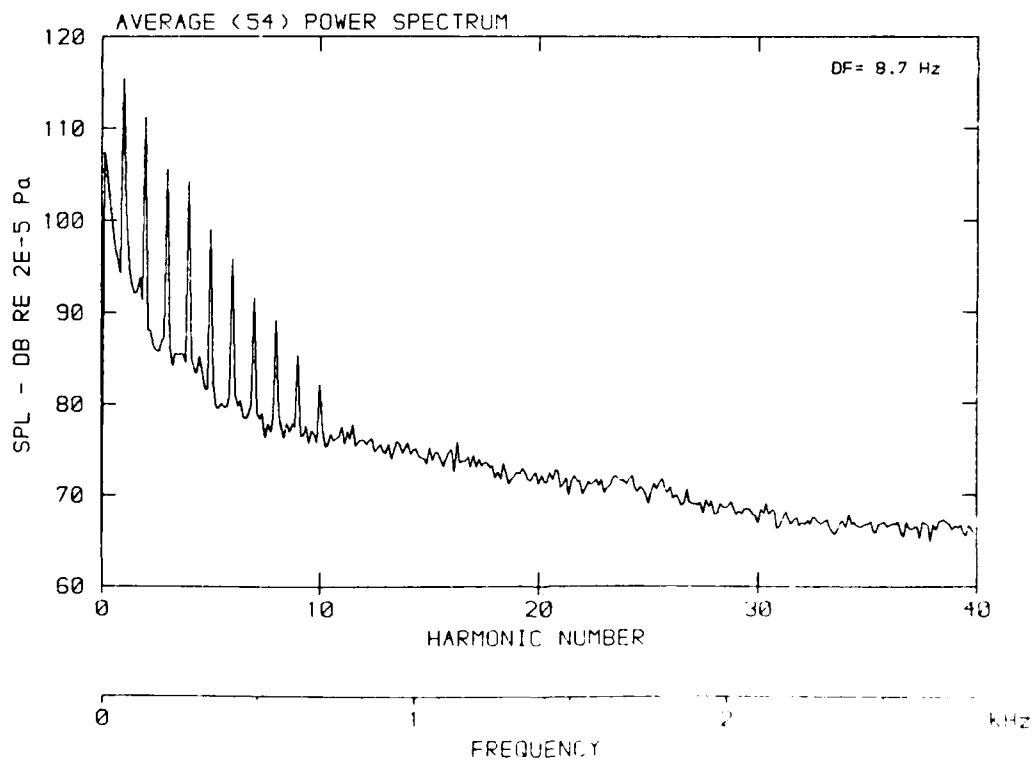
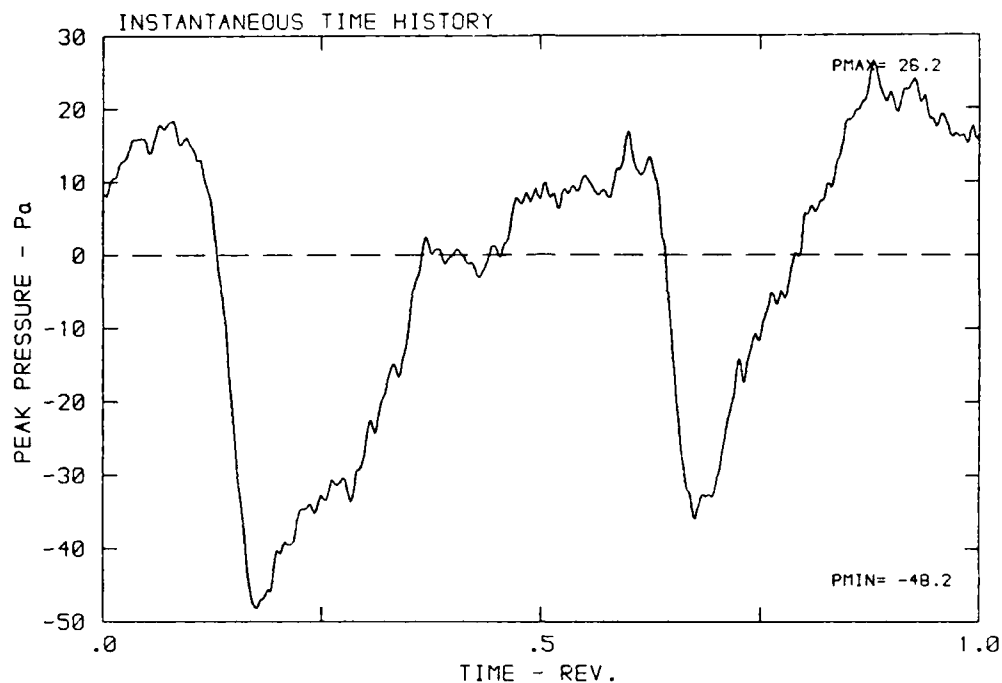
DATA POINT: DC-3 RUN: 114 MP: 3

β : 29.5° MH: .6841 n: 2100 rpm v/u: .299 ϕ : .0° T: 289.2 K



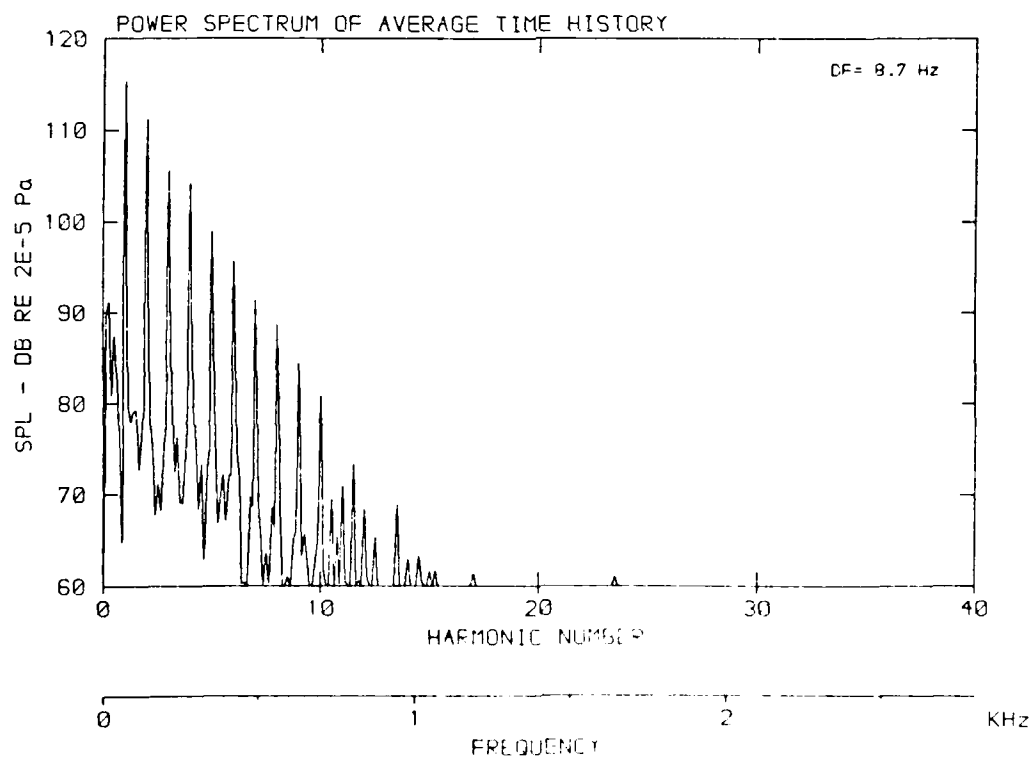
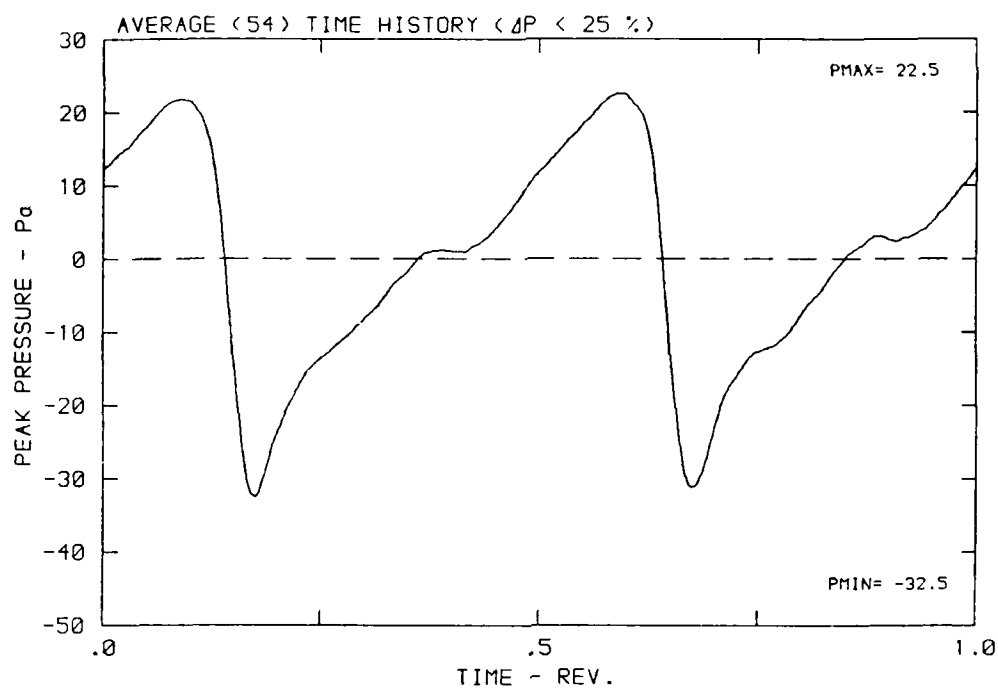
DATA POINT: DC-3 RUN: 114 MP: 4

β : 29.5° MH: .6841 n: 2100 rpm v/u: .299 ϕ : .0° T: 239.2 K



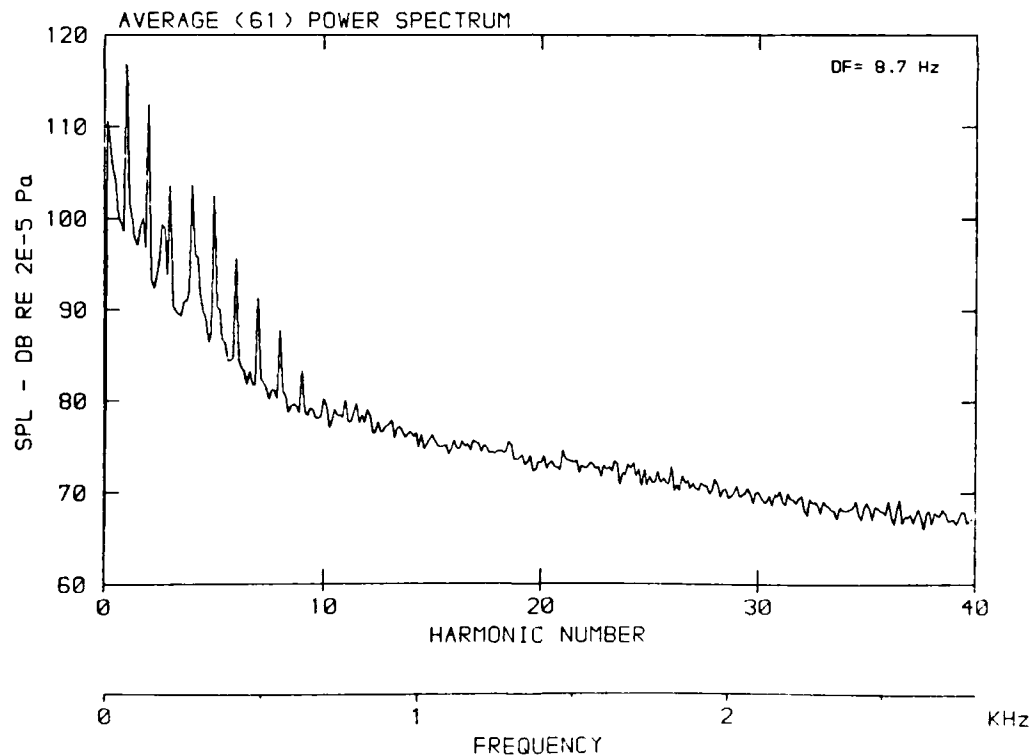
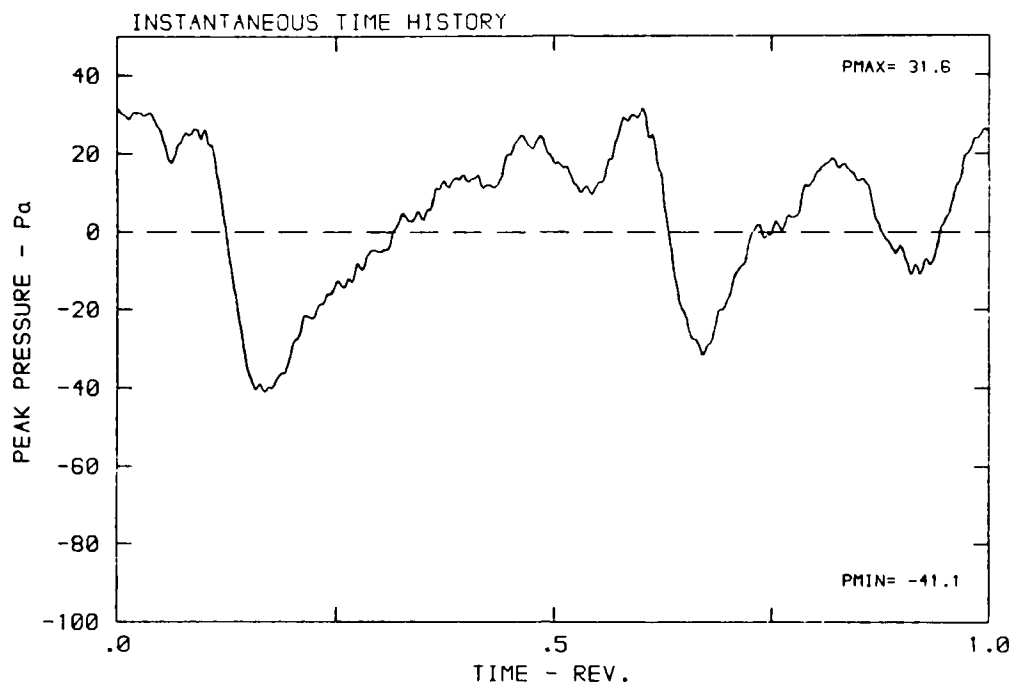
DATA POINT: DC-3 RUN: 114 MP: 4

β : 29.5° MH: .6841 n: 2100 rpm v/u: .299 ϕ : .0° T: 289.2 K



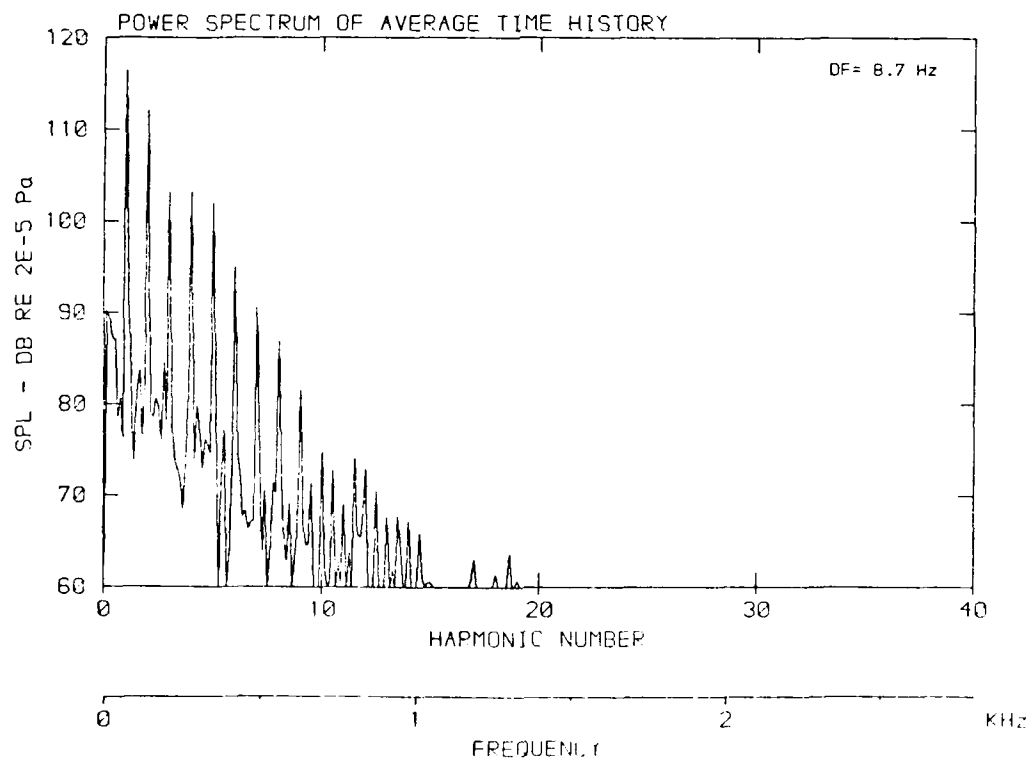
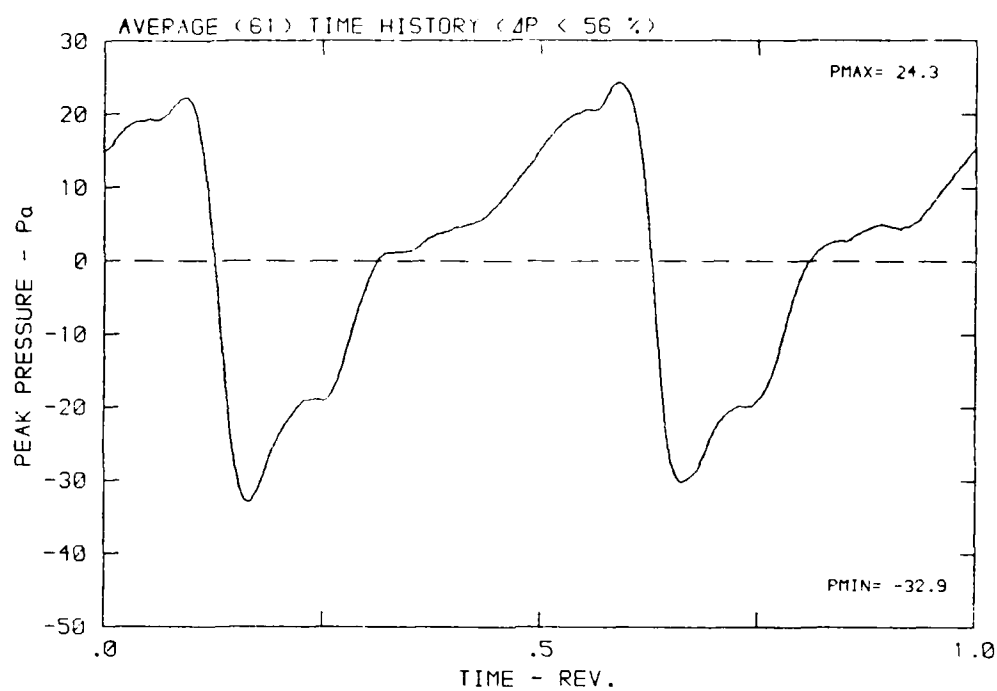
DATA POINT: DC-3 RUN: 114 MP: 5

β : 29.5° MH: .6841 n: 2100 rpm v/u: .299 ϕ : .0° T: 289.2 K



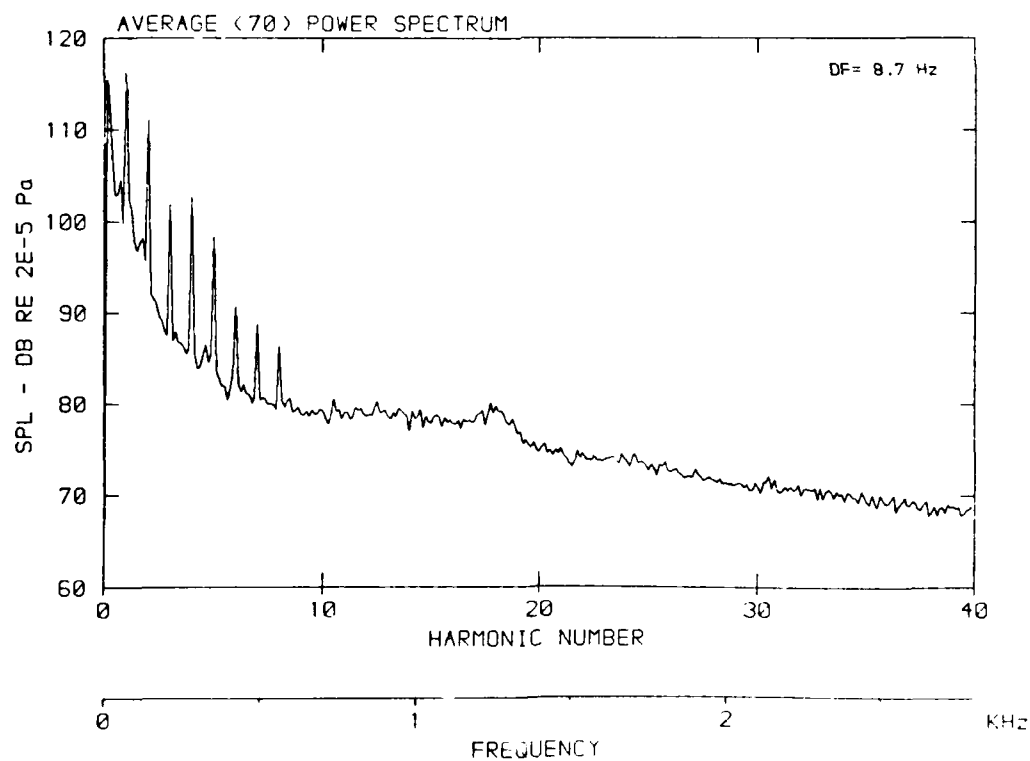
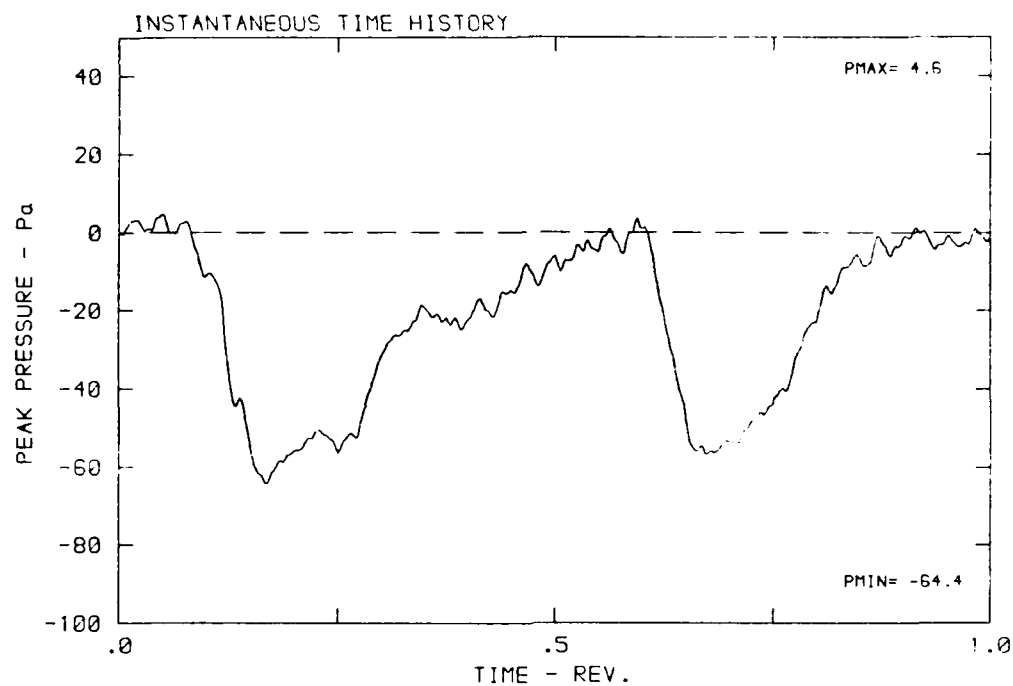
DATA POINT: DC-3 RUN: 114 MP: 5

β : 29.5° MH: .6841 n: 2100 rpm v/u : .299 ϕ : .0° T: 289.2 K



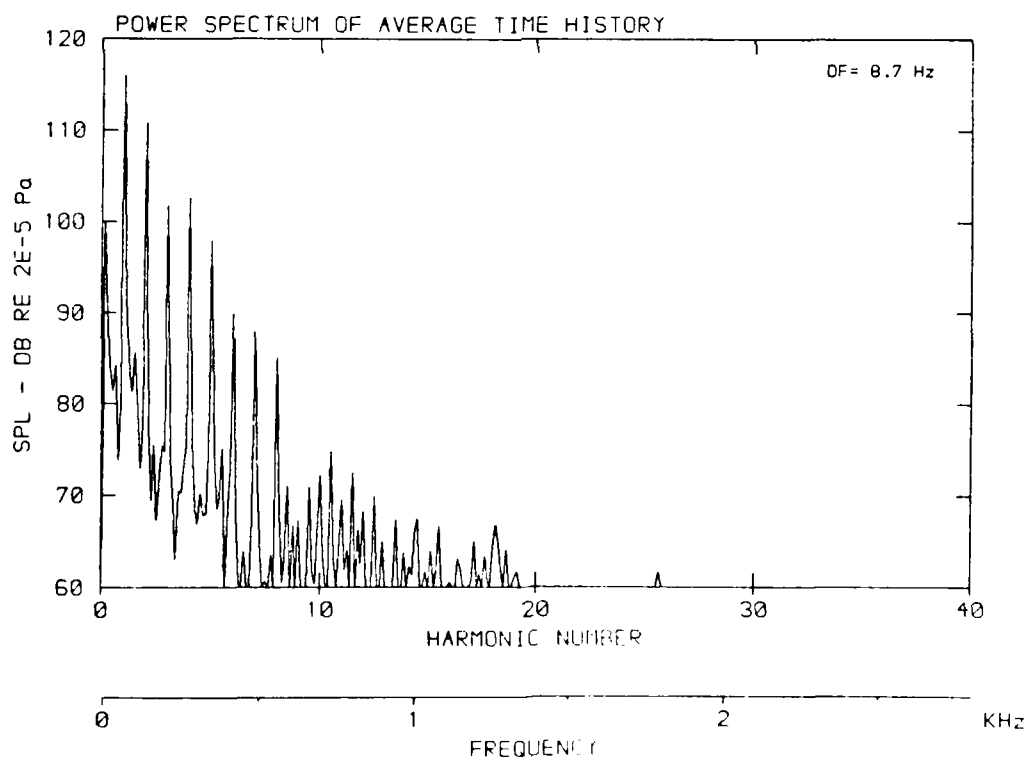
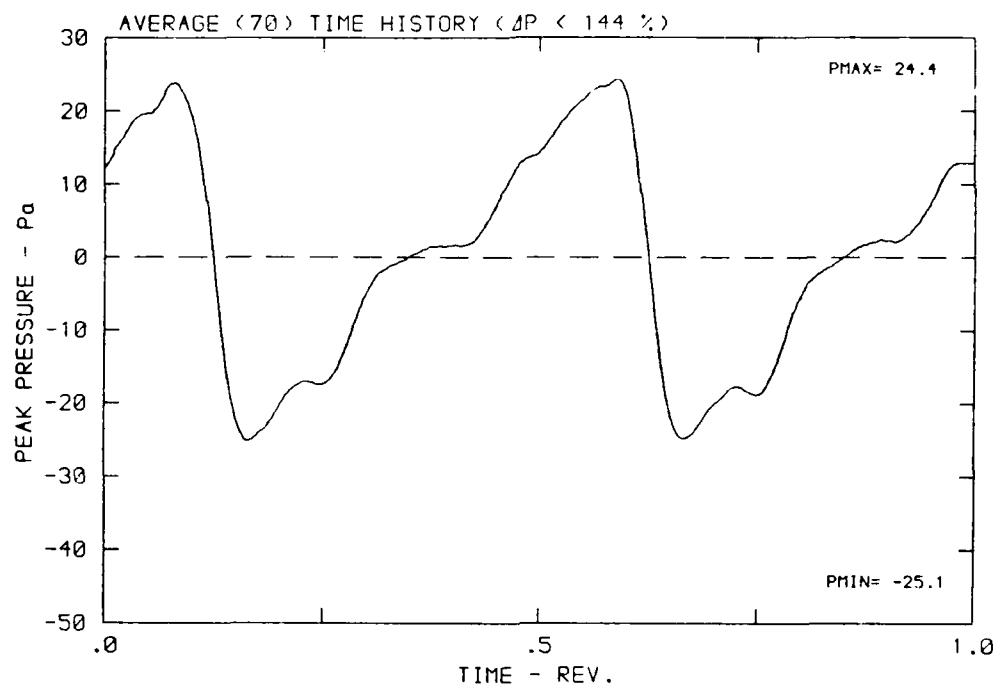
DATA POINT: DC-3 RUN: 114 MP: 6

β : 29.5° MH: .6841 n: 2100 rpm v/u : .299 ϕ : .0° T: 289.2 K



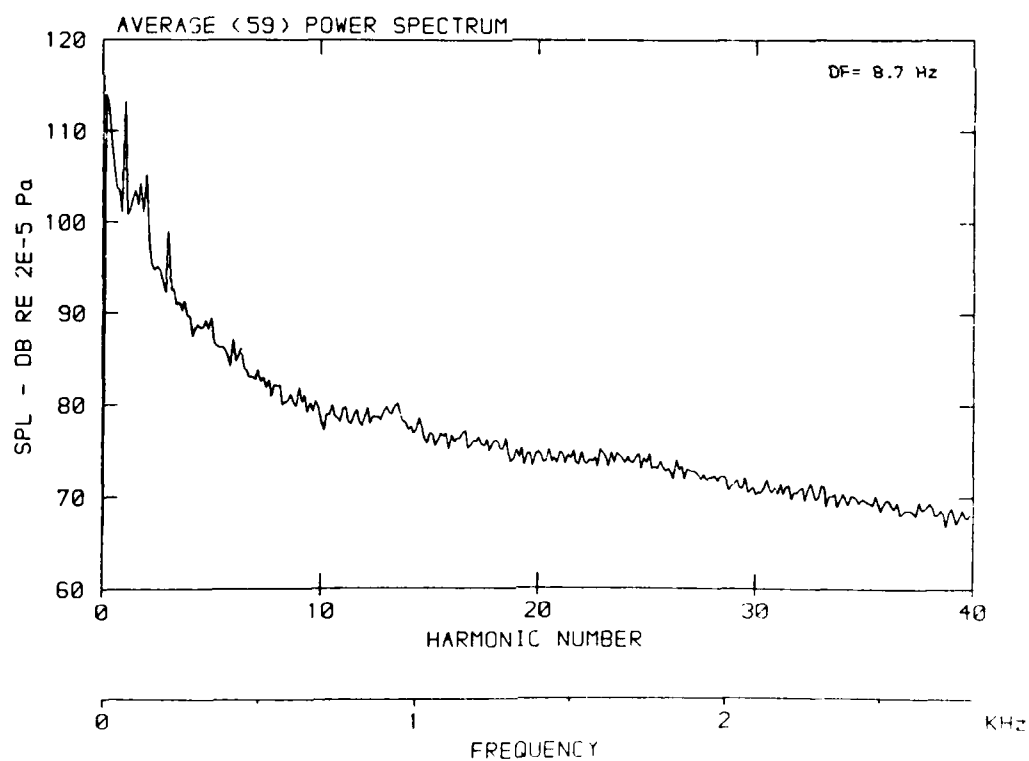
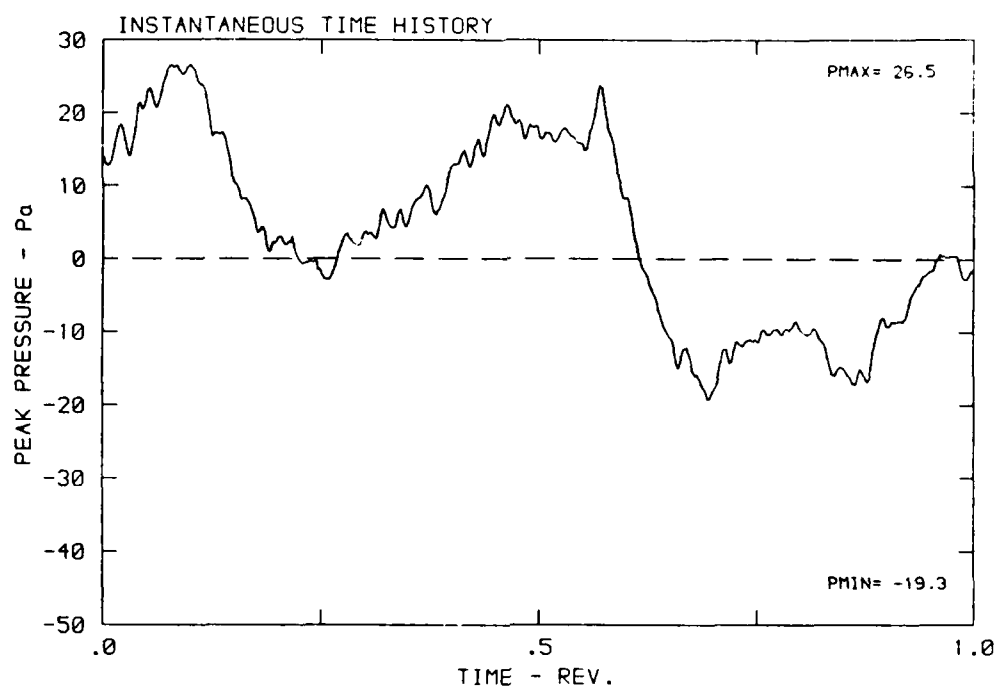
DATA POINT: DC-3 RUN: 114 MP: 6

β : 29.5° MH: .6841 n: 2100 rpm v/u: .299 ϕ : .0° T: 289.2 K



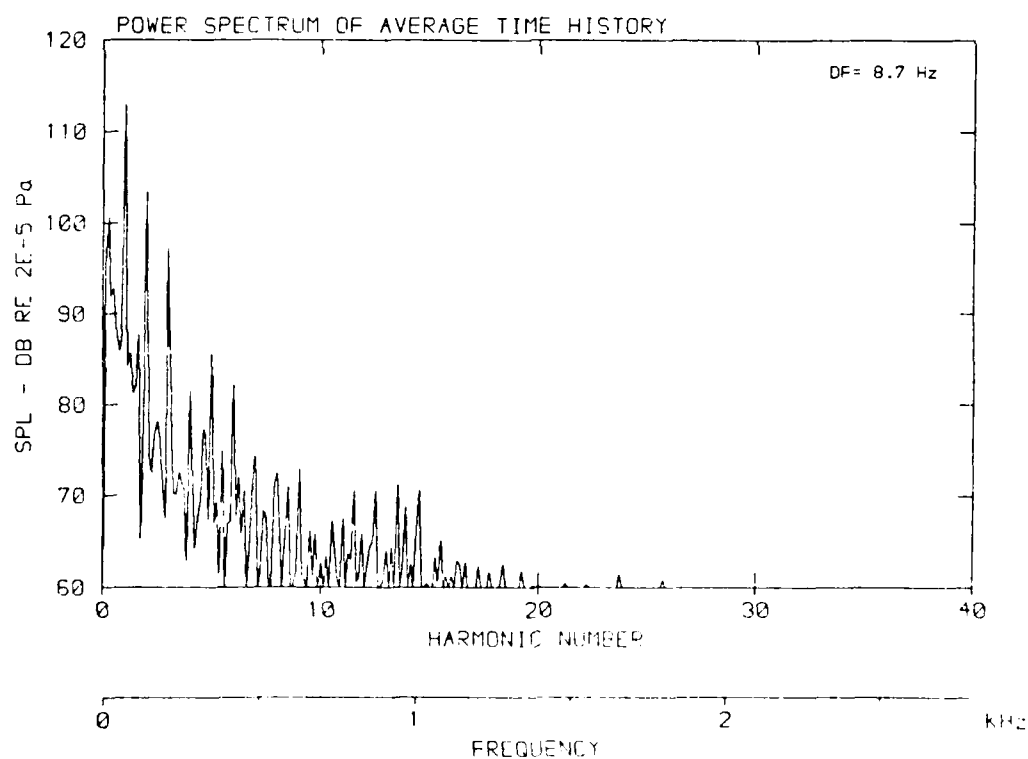
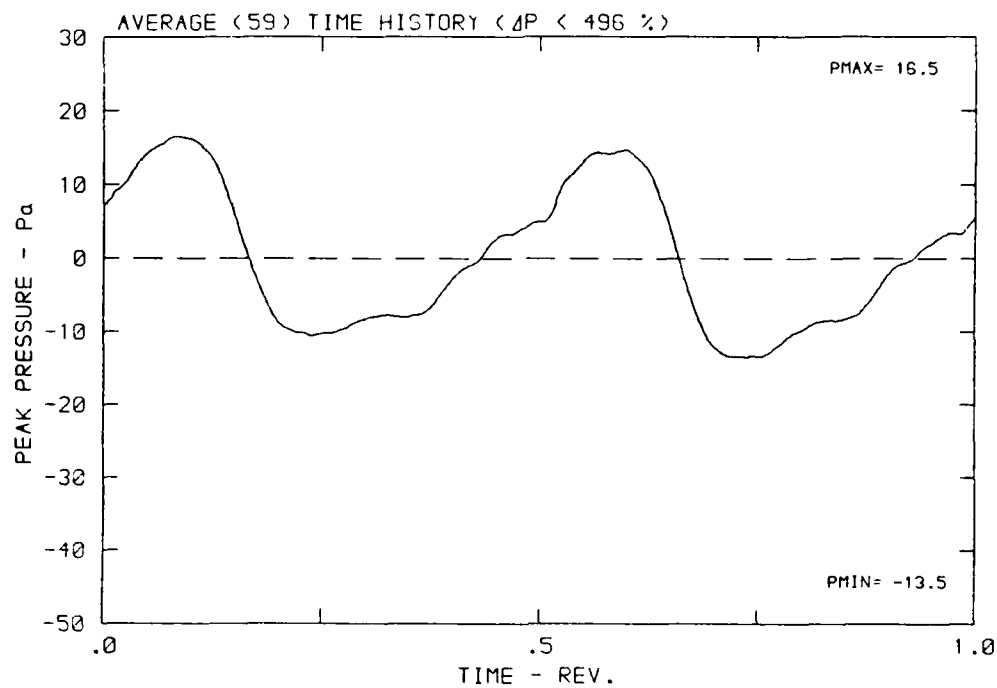
DATA POINT: DC-3 RUN: 114 MP: 7

β : 29.5° MH: .6841 n: 2100 rpm v/u: .299 ϕ : .0° T: 269.2 K



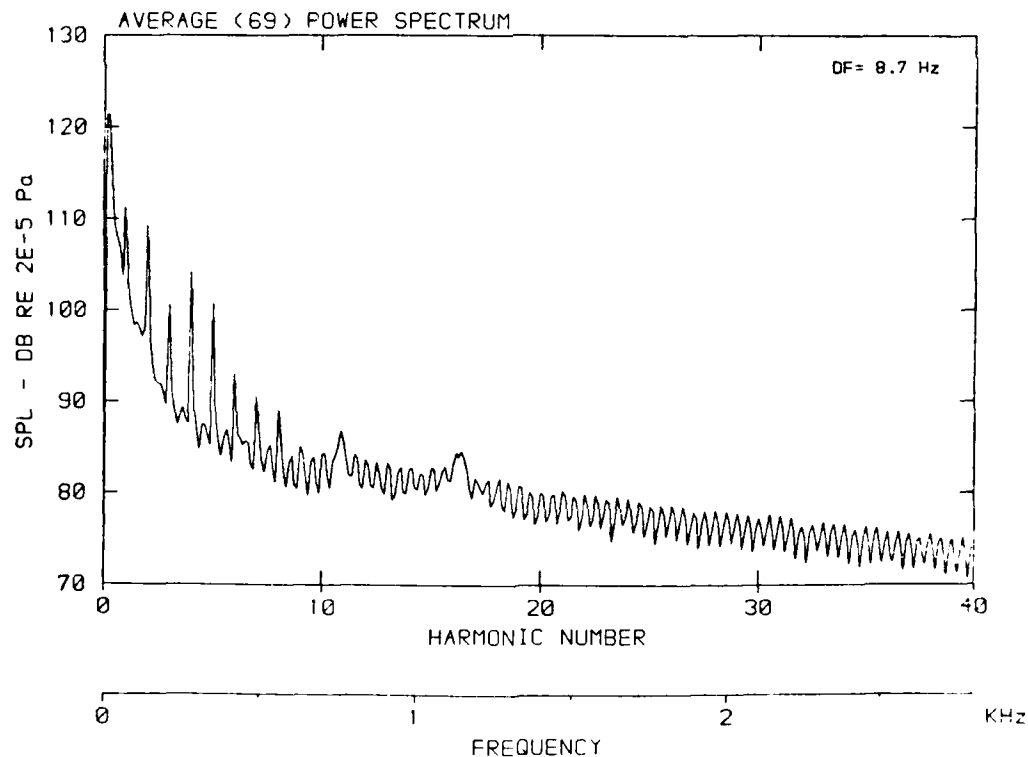
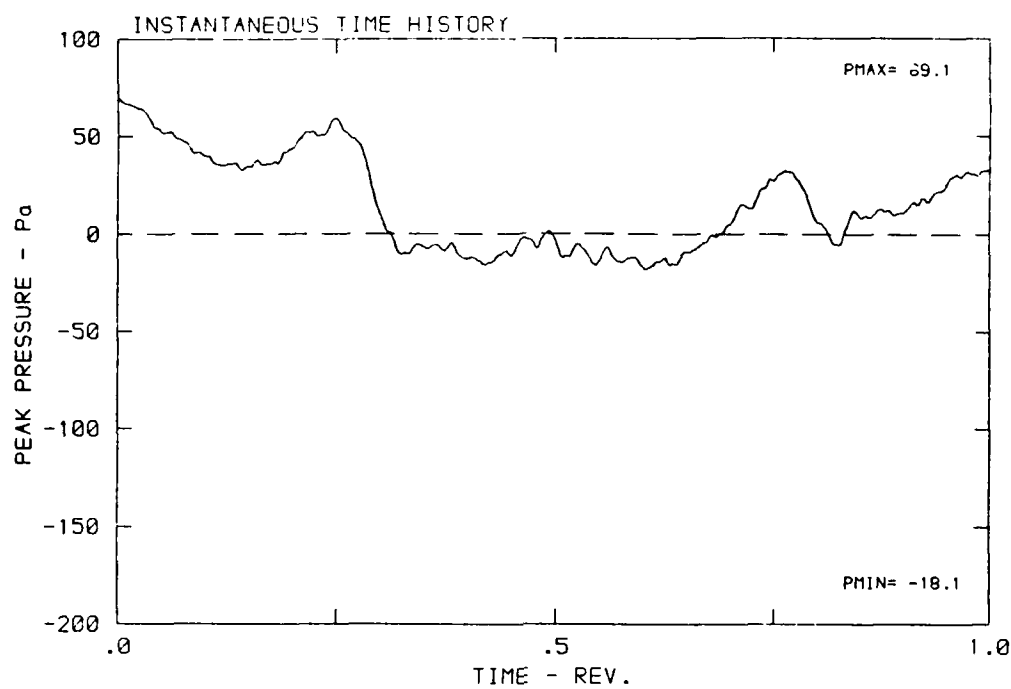
DATA POINT: DC-3 RUN: 114 MP: 7

β : 29.5° MH: .6841 n: 2100 rpm v/u : .299 ϕ : .0° T: 289.2 K



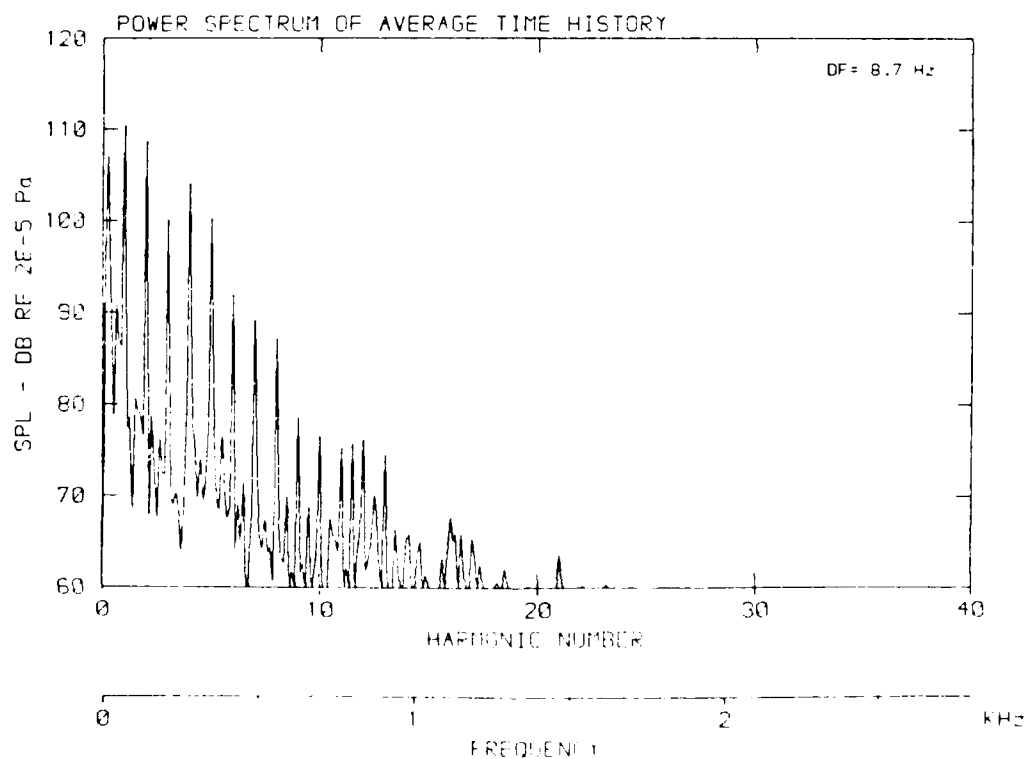
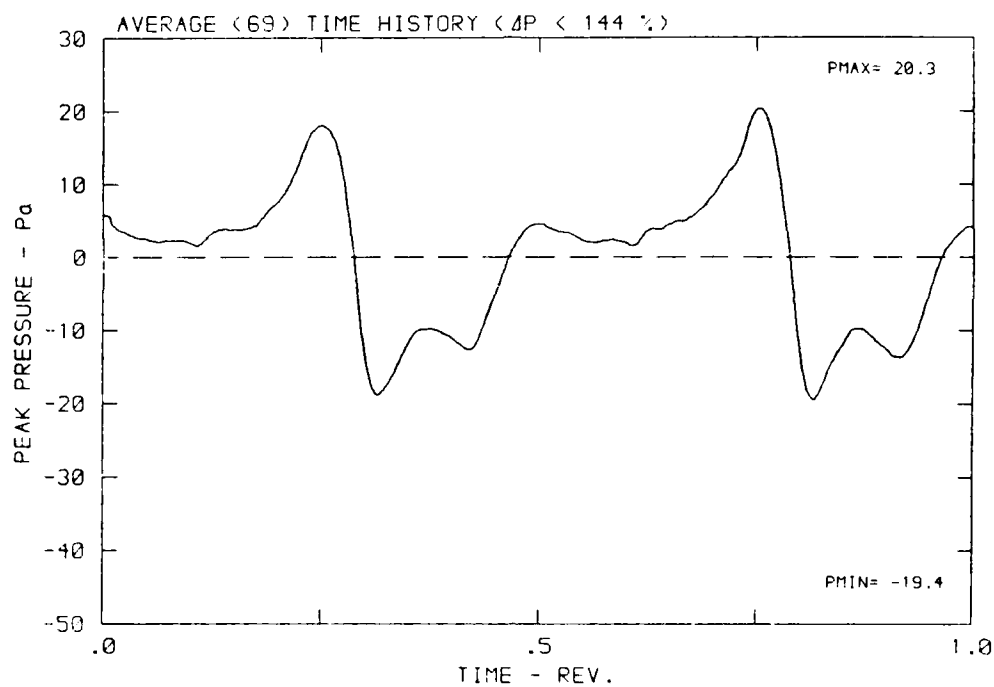
DATA POINT: DC-3 RUN: 114 MP: 9

β : 29.5° MH: .6841 n: 2100 rpm v/u: .299 ϕ : .0° T: 283.2 K



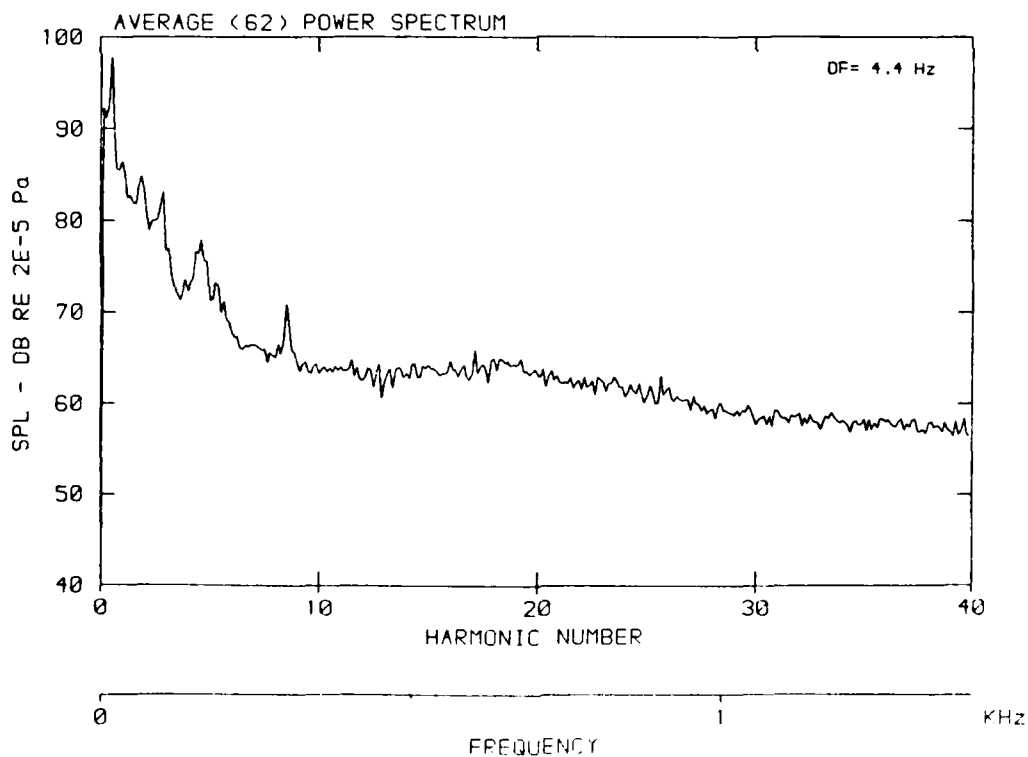
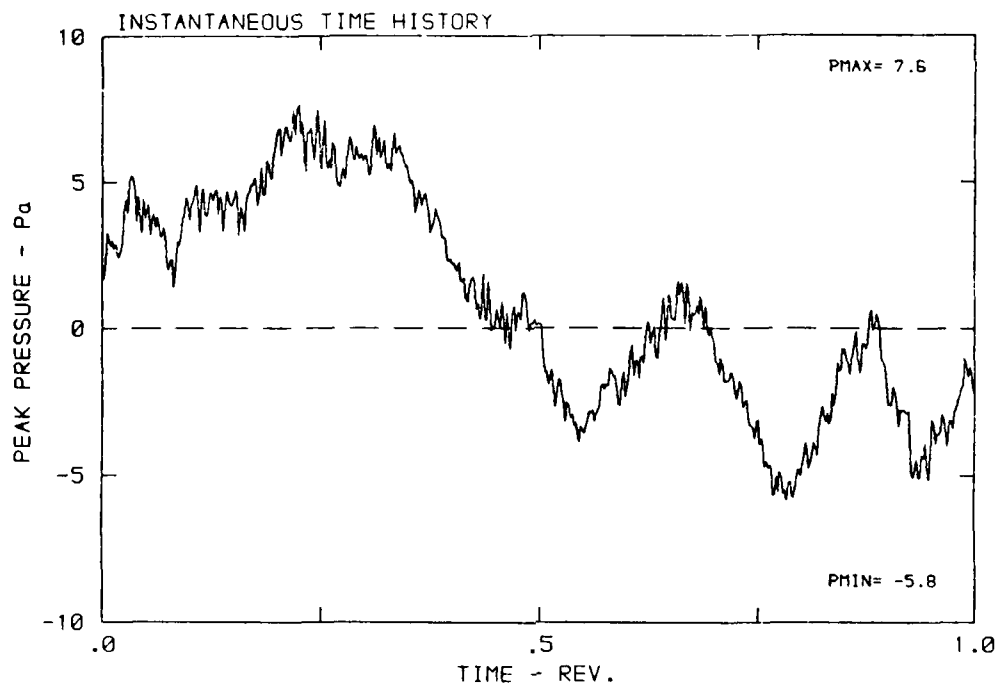
DATA POINT: DC-3 RUN: 114 MP: 9

β : 29.5° MH: .6841 n: 2100 rpm v/u : .299 ϕ : .0° T: 289.2 K



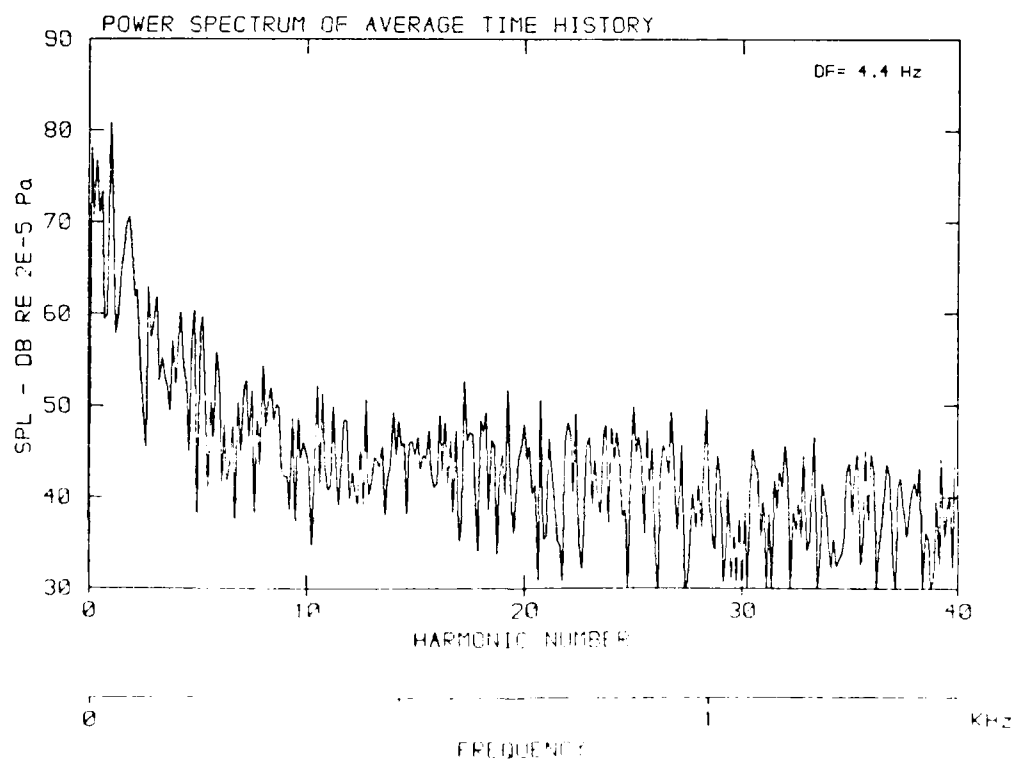
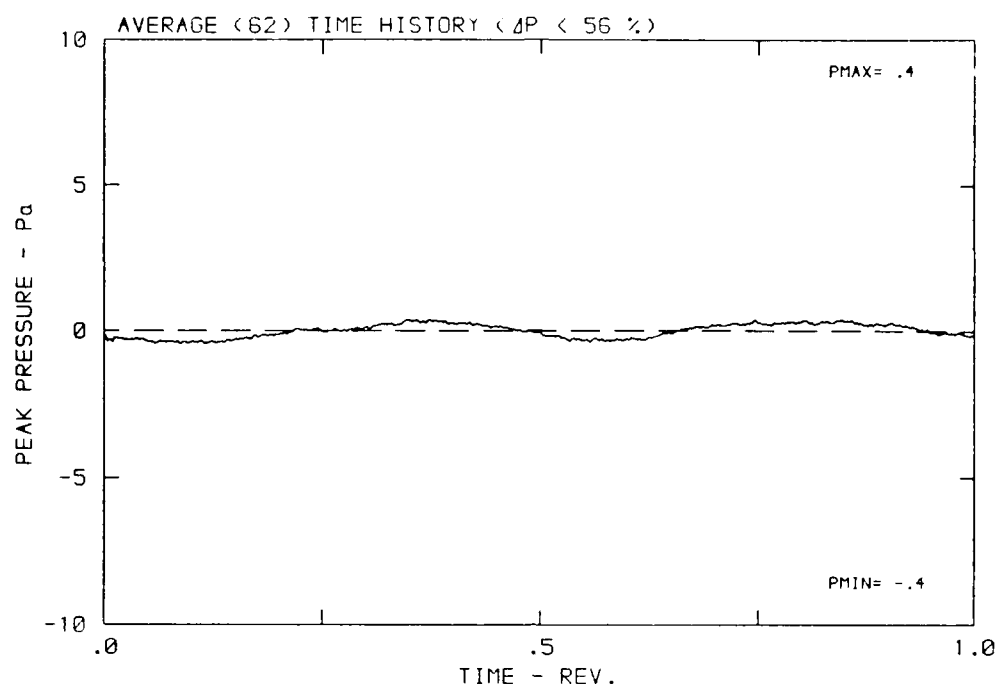
DATA POINT: DC-4 RUN: 113 MP: 1

β : 29.5° MH: .3622 n: 1055 rpm v/u : .455 ϕ : .0° T: 288.5 K



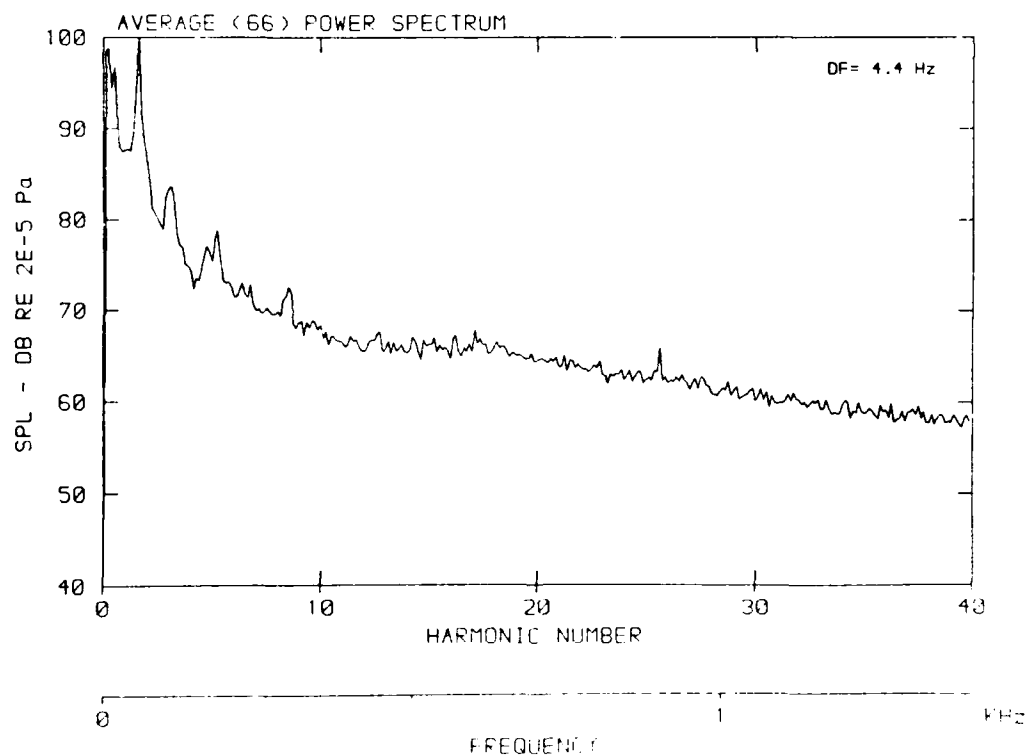
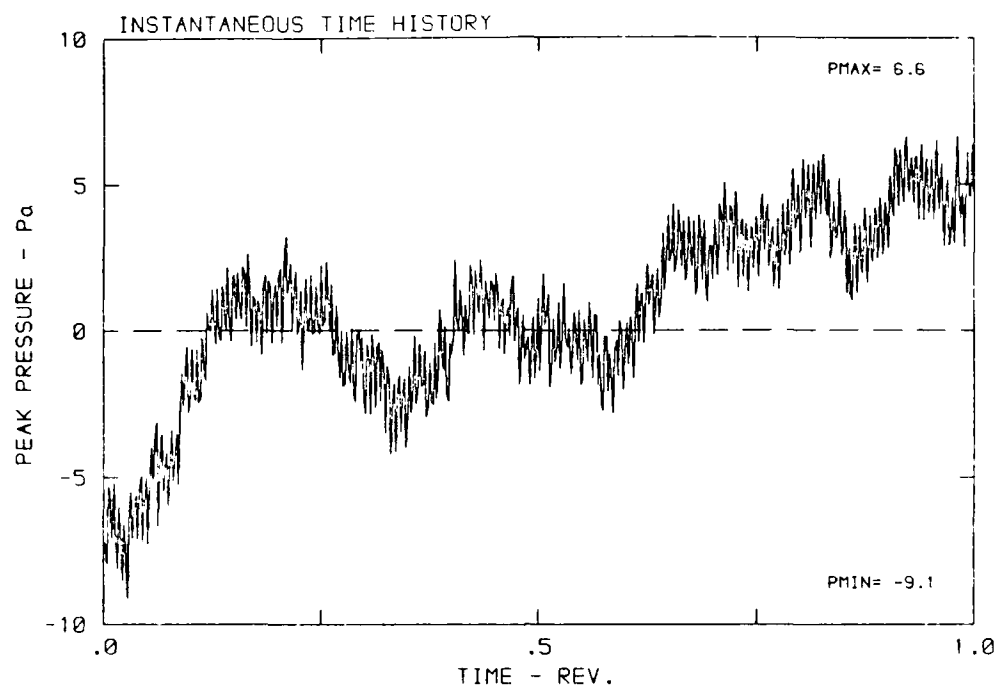
DATA POINT: DC-4 RUN: 113 MP: 1

β : 29.5° MH: .3622 n: 1055 rpm v/u : .455 ϕ : .0° T: 288.5 K



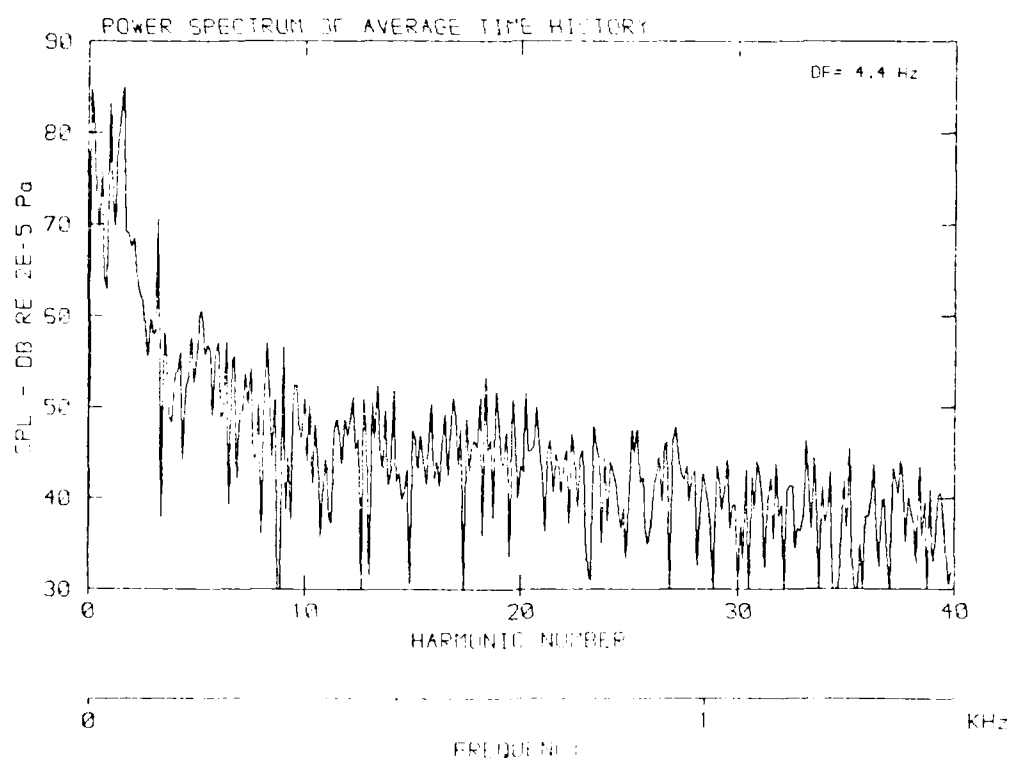
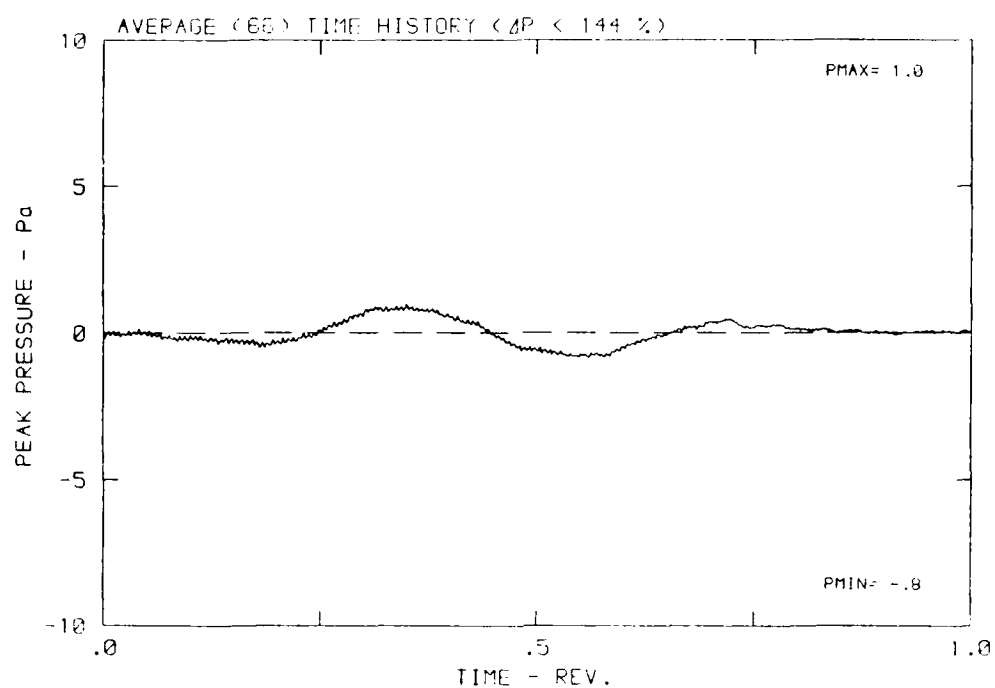
DATA POINT: DC-4 RUN: 113 MP: 2

β : 29.5° MH: .3622 n: 1055 rpm v/u : .455 ϕ : .0° T: 288.5 K



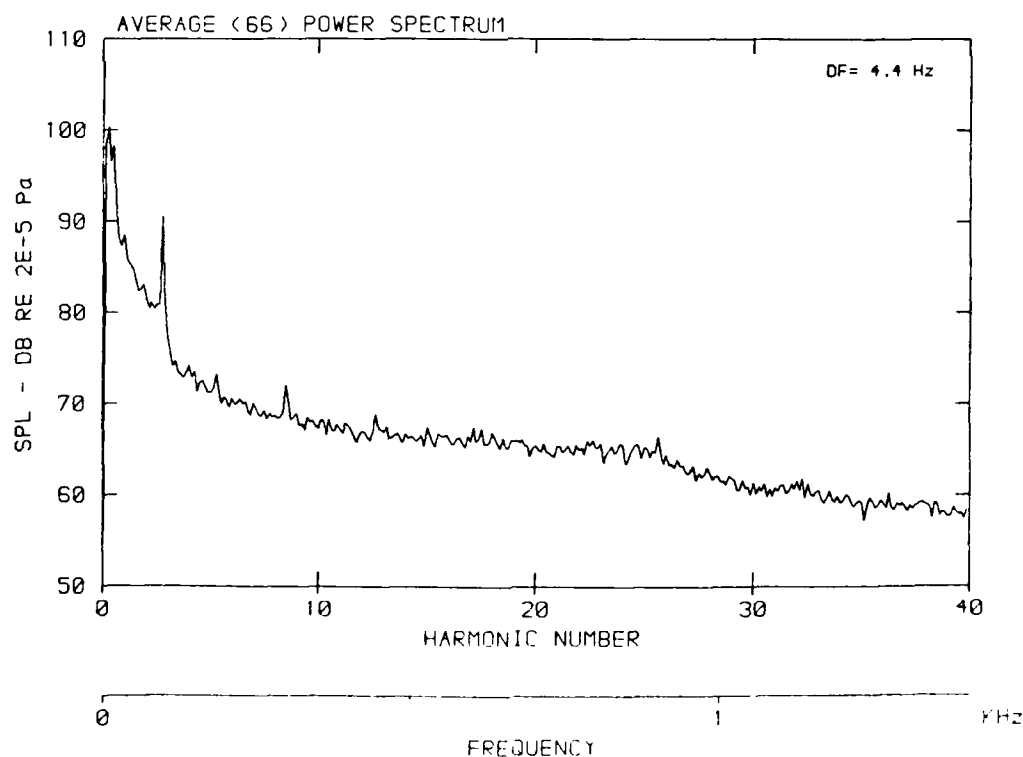
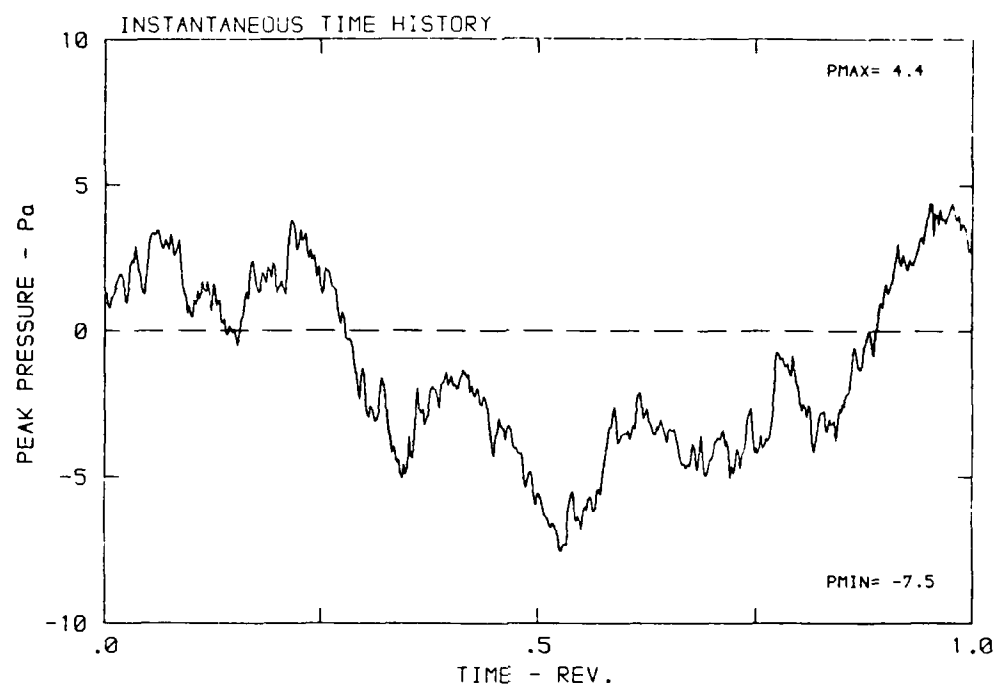
DATA POINT: DC-4 RUN: 113 MP: 2

β : 29.5° MH: .3622 n: 1055 rpm v/u : .455 ϕ : .0° T: 288.5 K



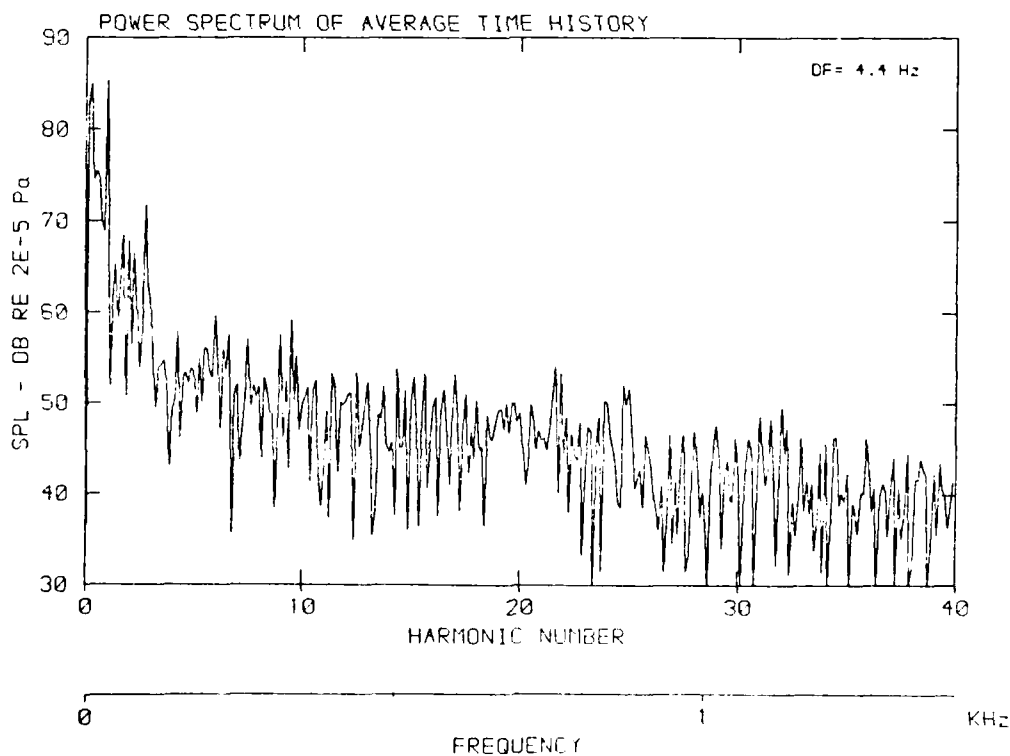
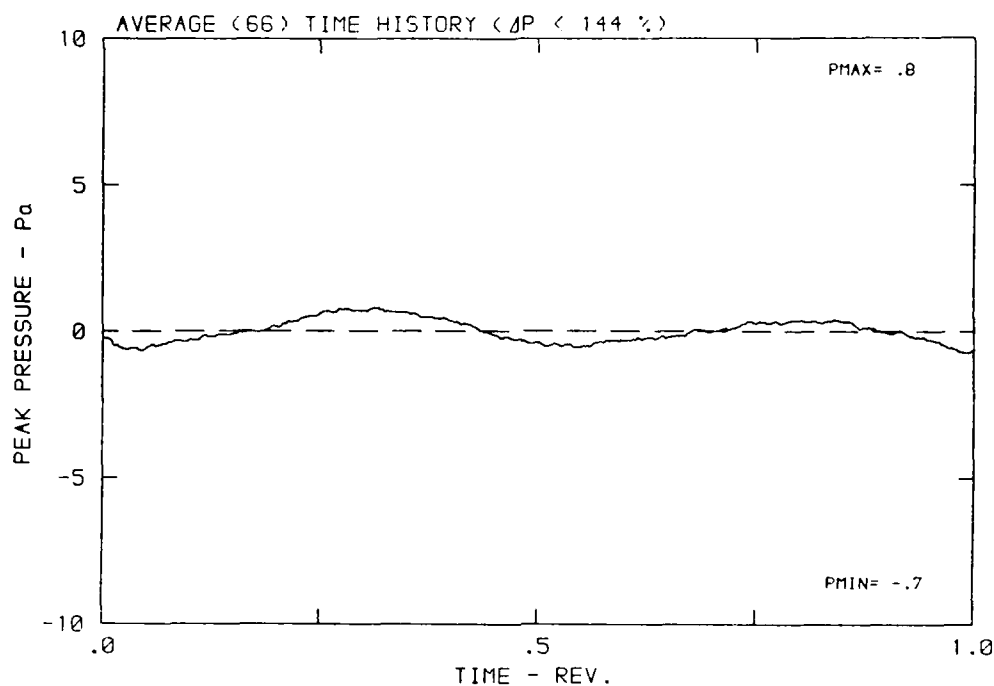
DATA POINT: DC-4 RUN: 113 MP: 3

β : 29.5° MH: .3622 n: 1055 rpm v/u: .455 ϕ : .0° T: 288.5 K



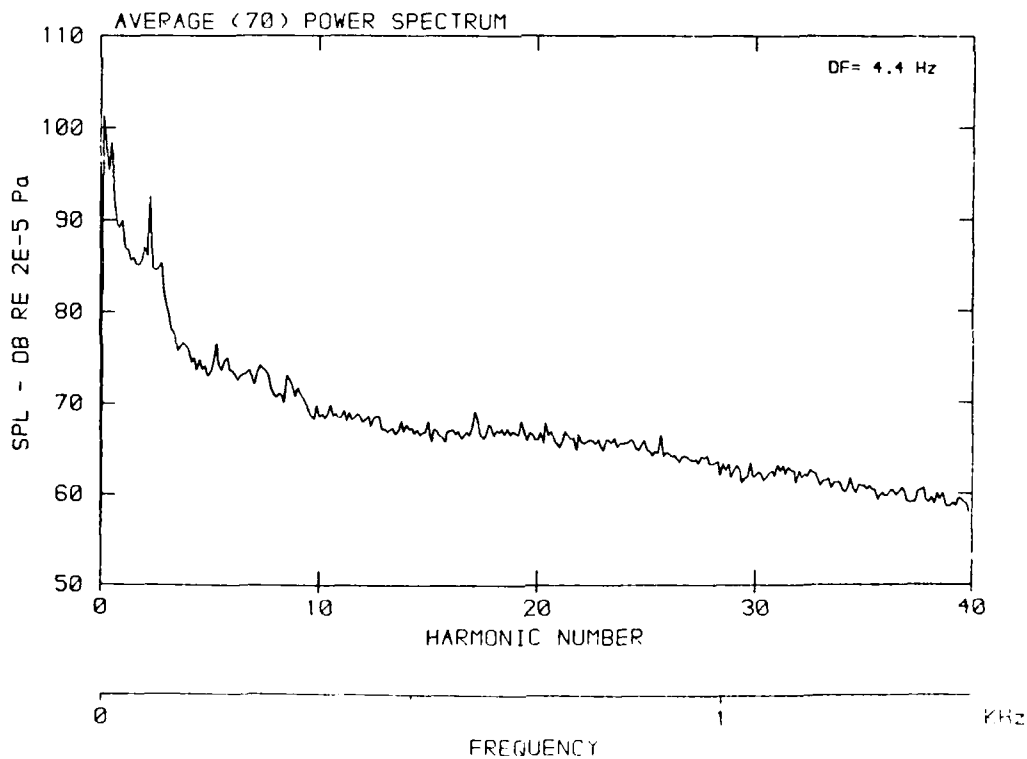
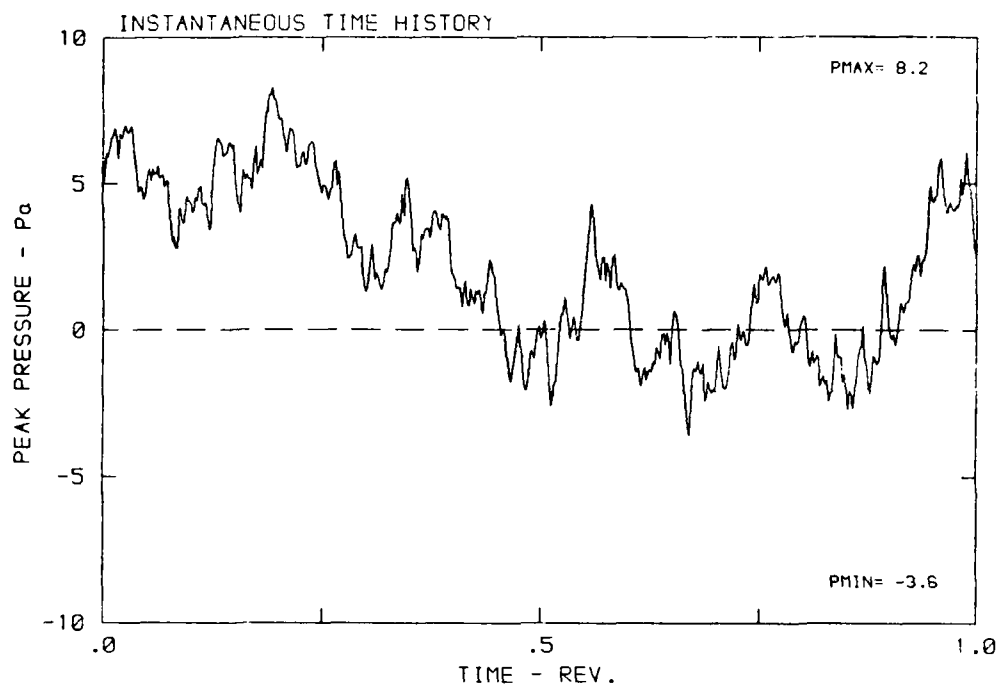
DATA POINT: DC-4 RUN: 113 MP: 3

β : 29.5° MH: .3622 n: 1055 rpm v/u : .455 ϕ : .0° T: 288.5 K



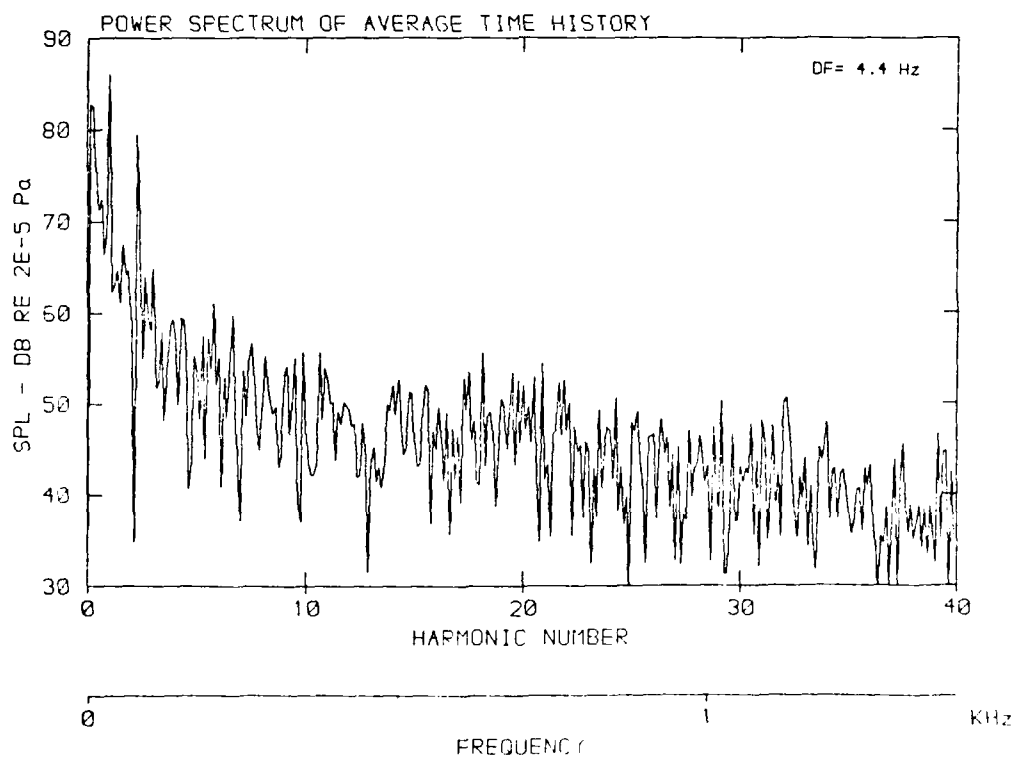
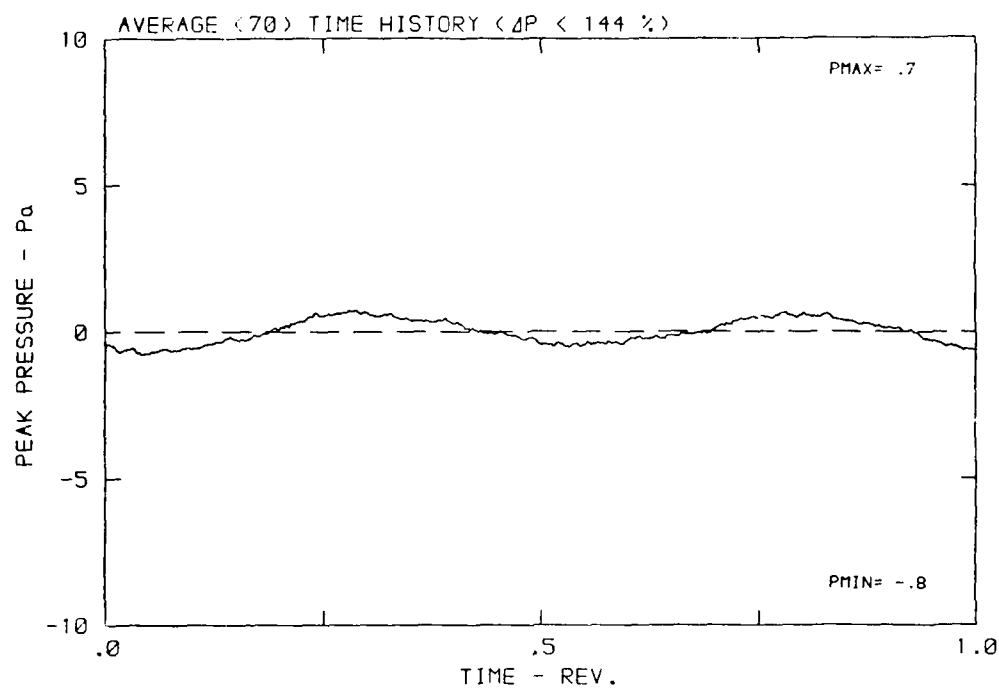
DATA POINT: DC-4 RUN: 113 MP: 4

β : 29.5° MH: .3622 n: 1055 rpm v/u: .455 ϕ : .0° T: 288.5 K



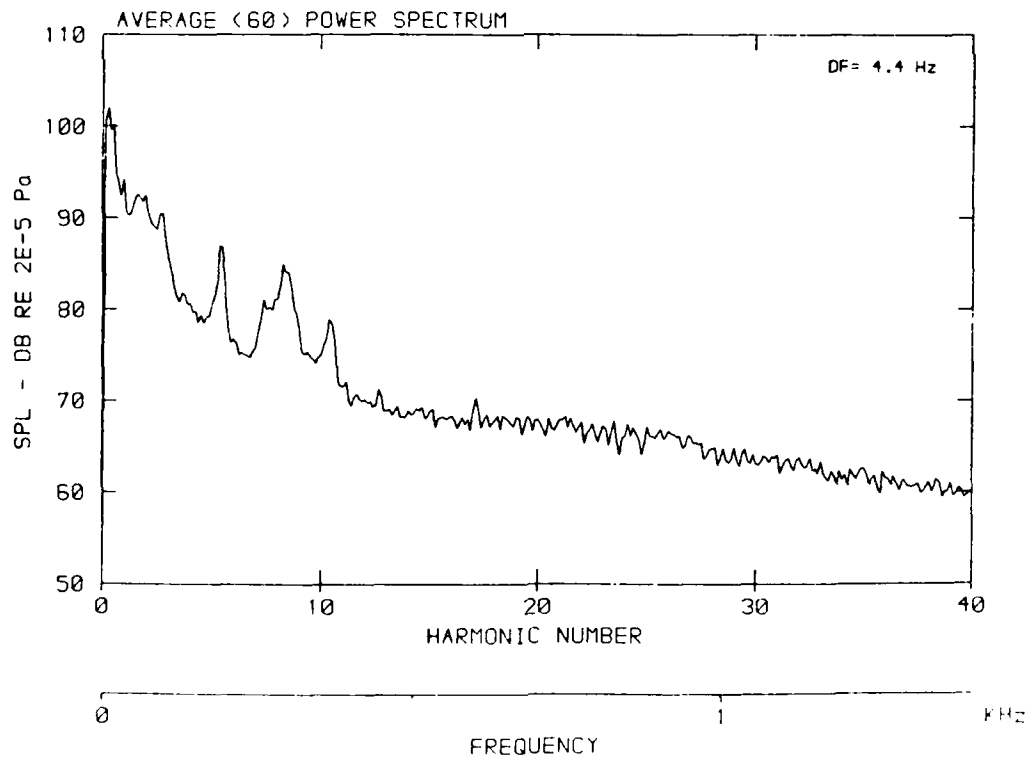
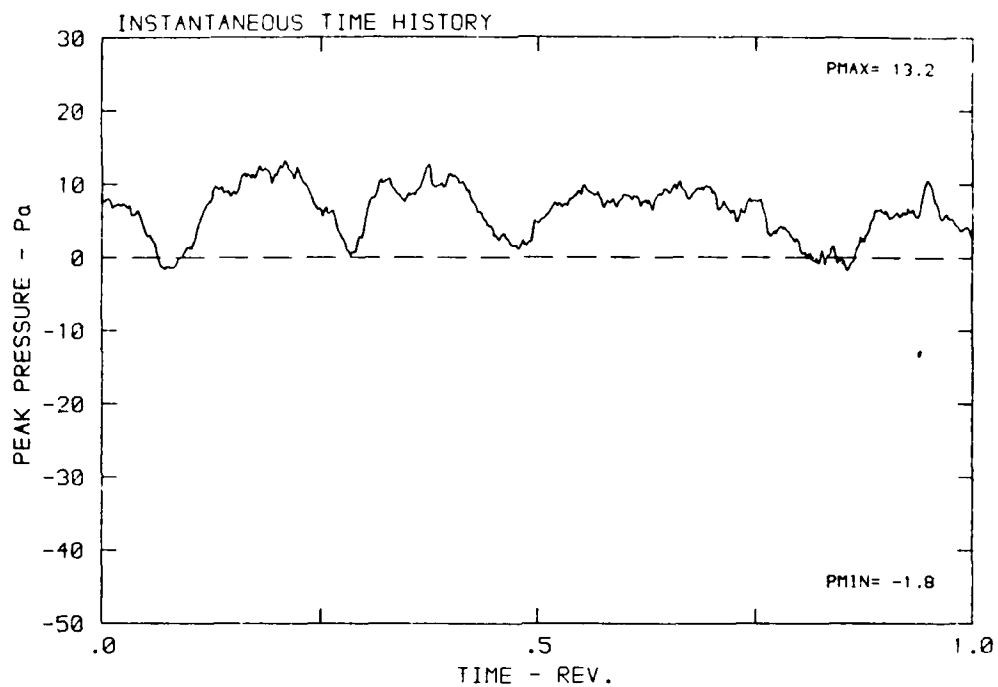
DATA POINT: DC-4 RUN: 113 MP: 4

β : 29.5° MH: .3622 n: 1055 rpm v/u: .455 ϕ : .0° T: 288.5 K



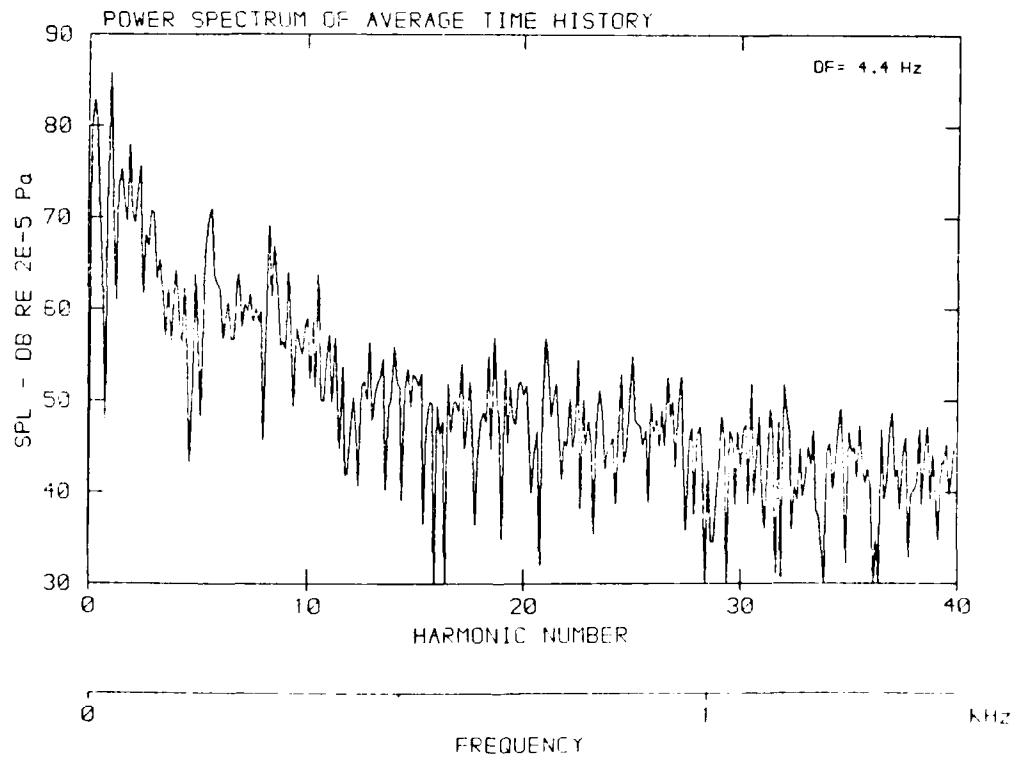
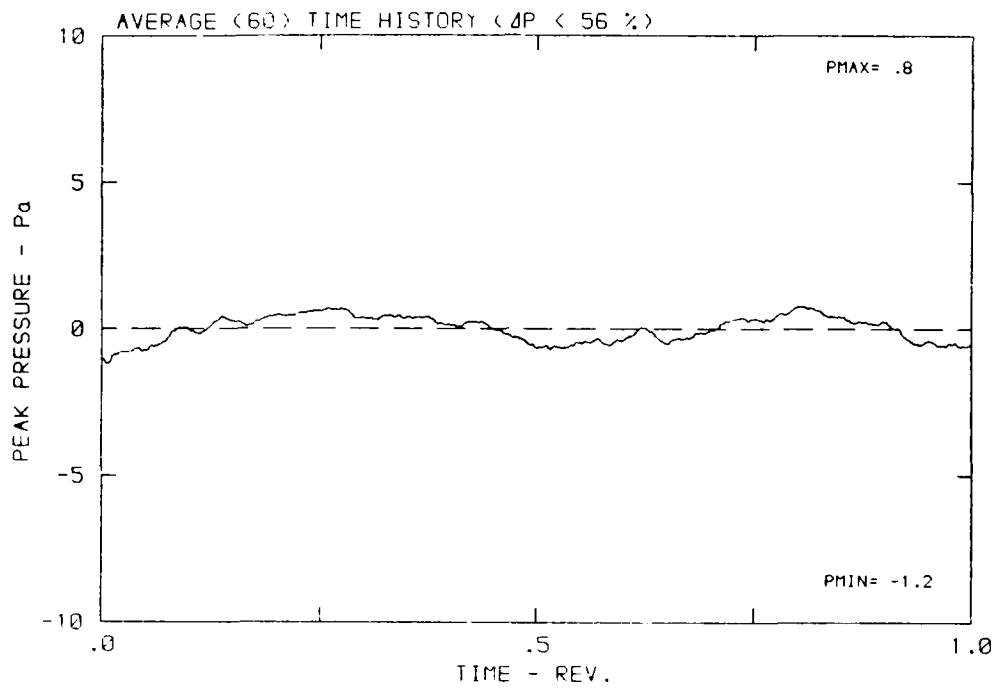
DATA POINT: DC-4 RUN: 113 MP: 5

β : 29.5° MH: .3622 n: 1055 rpm v/u: .455 ϕ : .0° T: 288.5 K

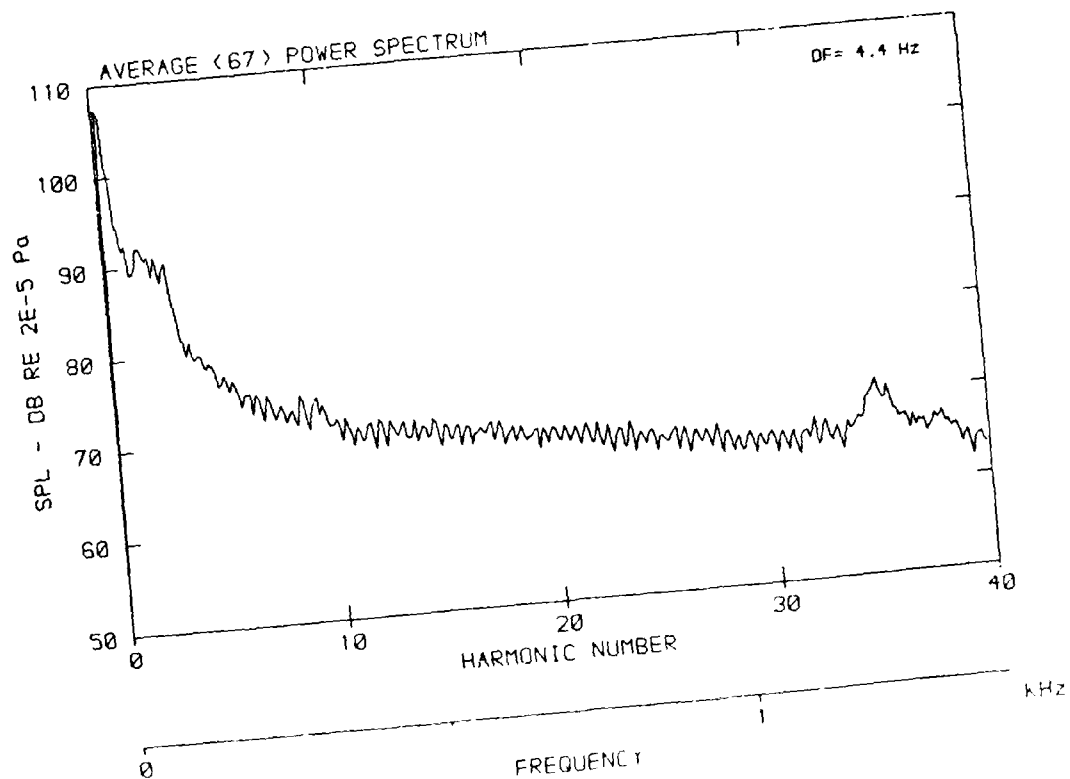
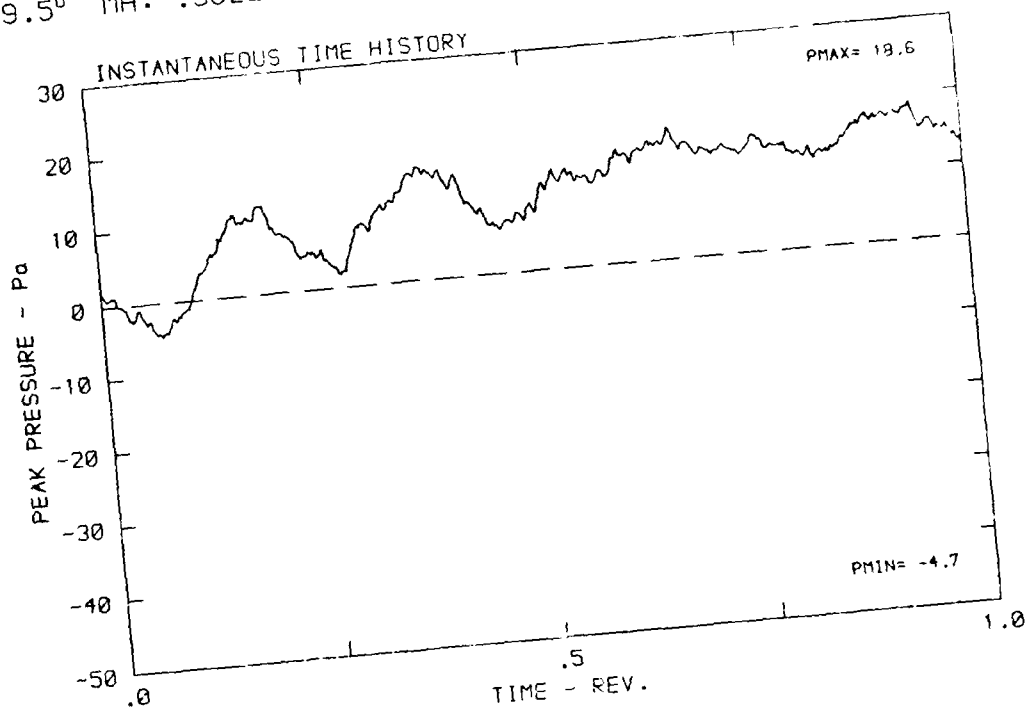


DATA POINT: DC-4 RUN: 113 MP: 5

β : 29.5° MH: .3622 n: 1055 rpm v/u: .455 ϕ : .0° T: 288.5 K

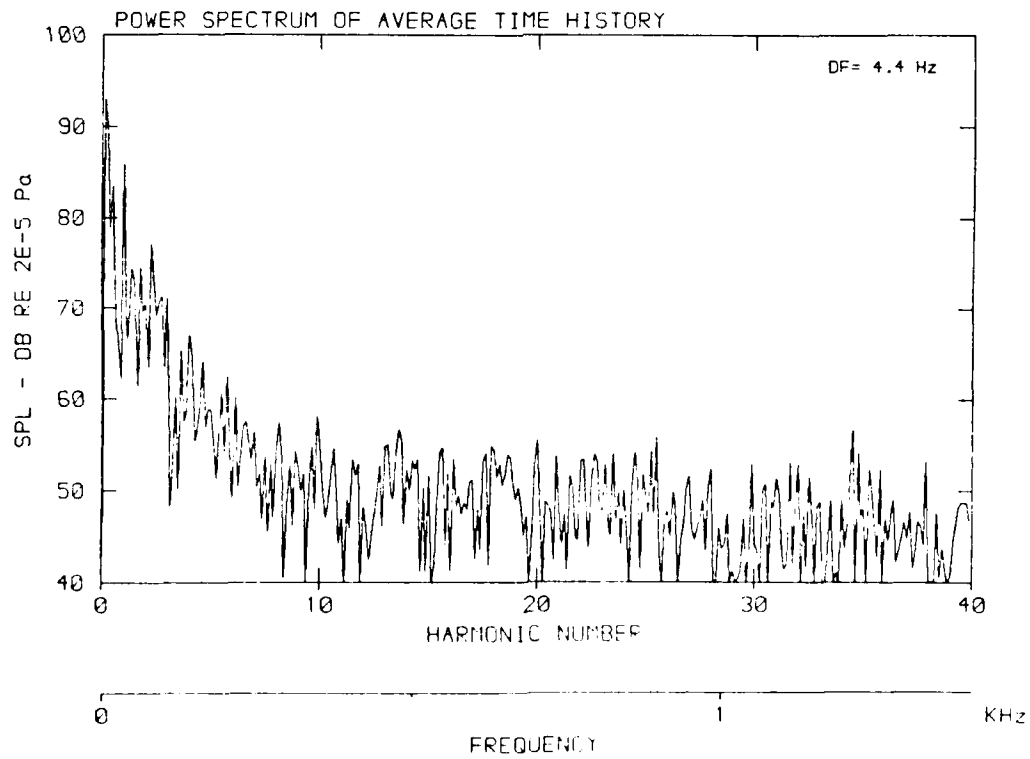
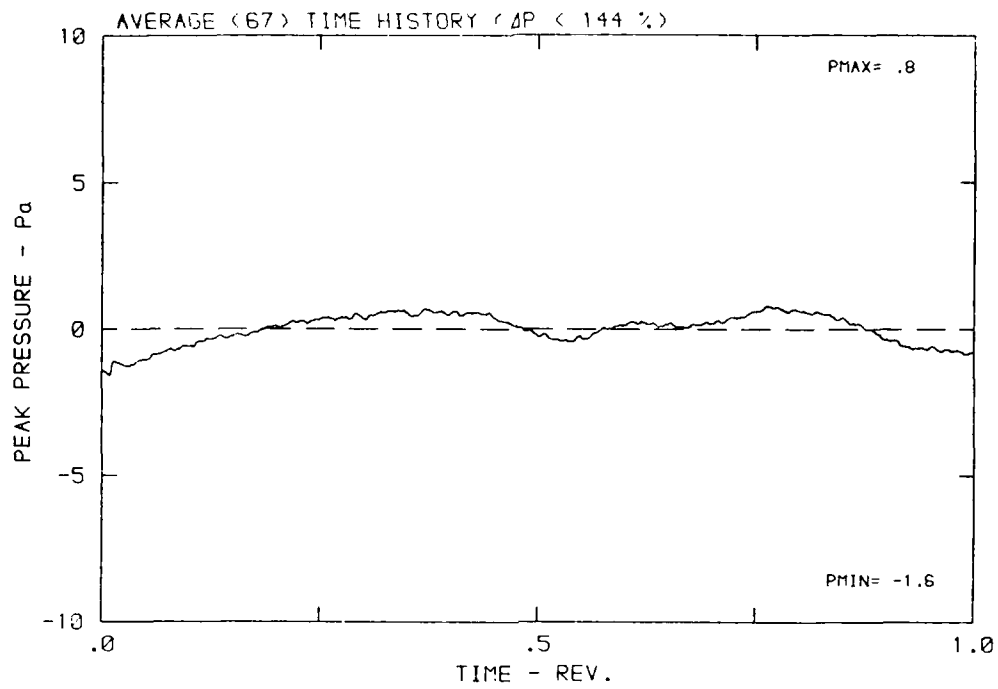


DATA POINT: DC-4 RUN: 113 MP: 6
 β : 29.5° MH: .3622 n: 1055 rpm v/u : .455 ϕ : .0° T: 283.5 K



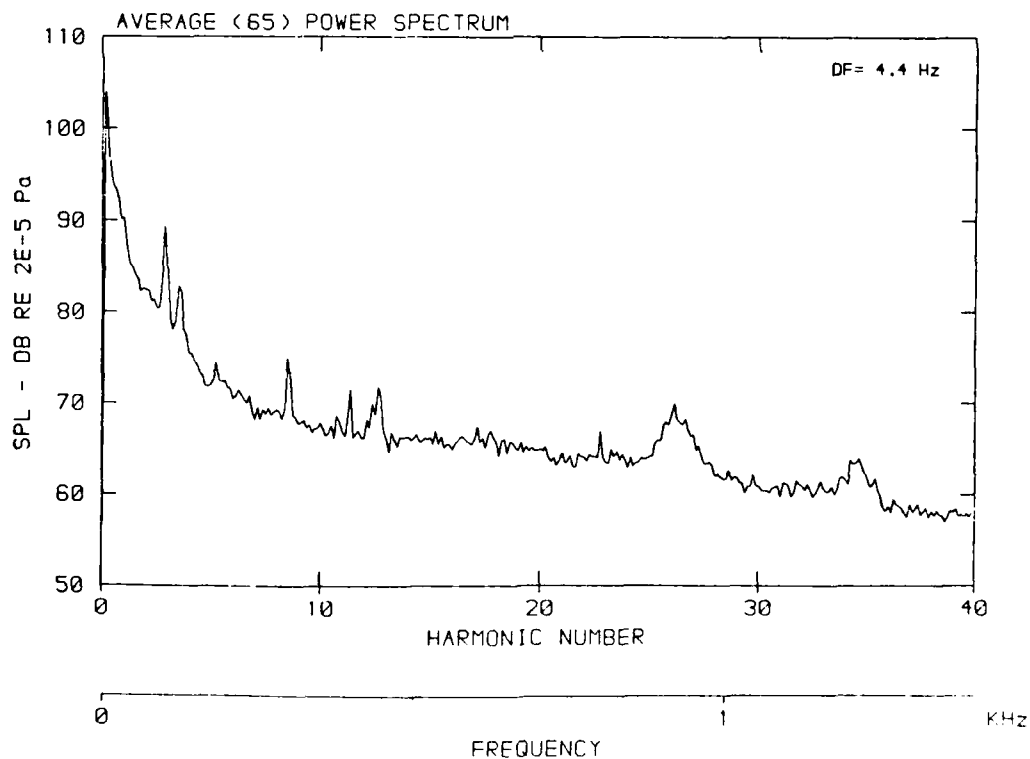
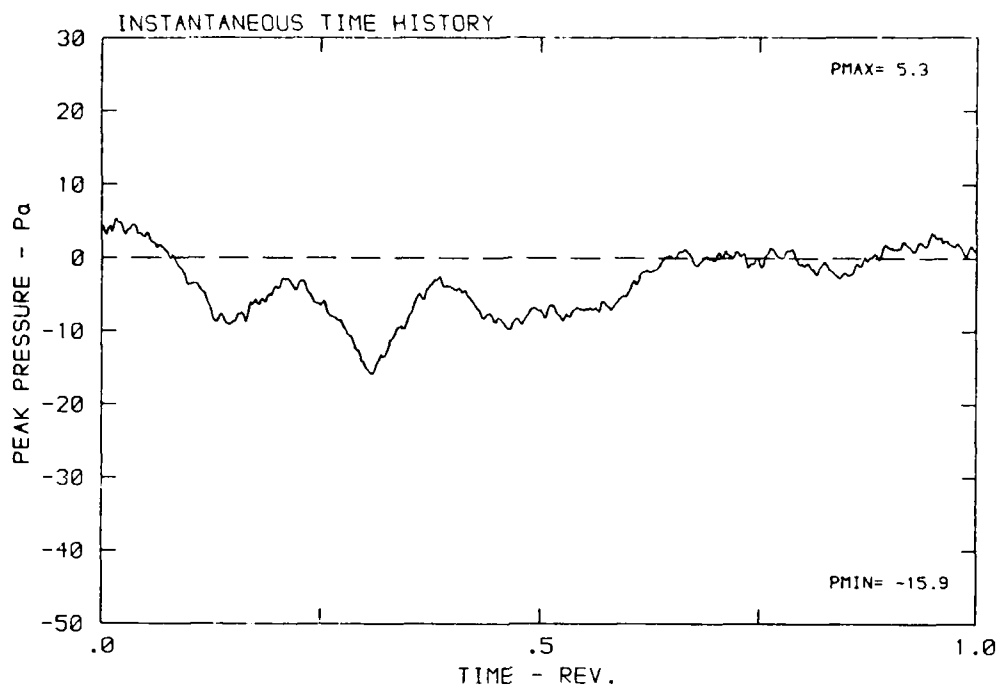
DATA POINT: DC-4 RUN: 113 MP: 6

β : 29.5° MH: .3622 n: 1055 rpm v/u : .455 ϕ : .0° T: 288.5 K



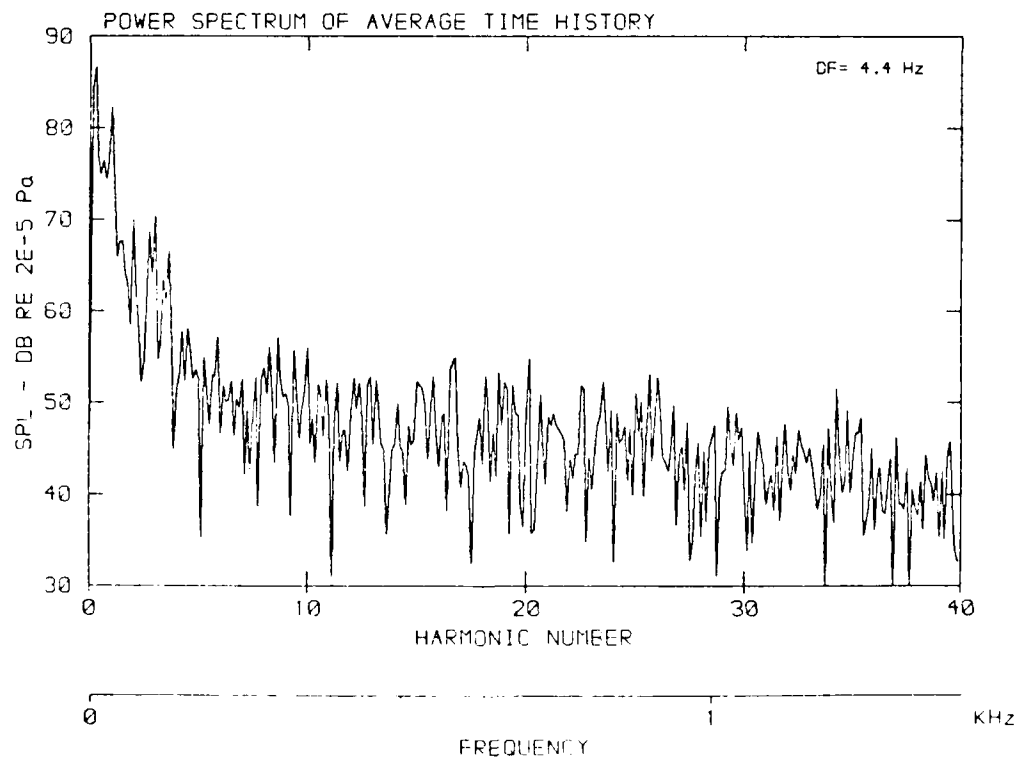
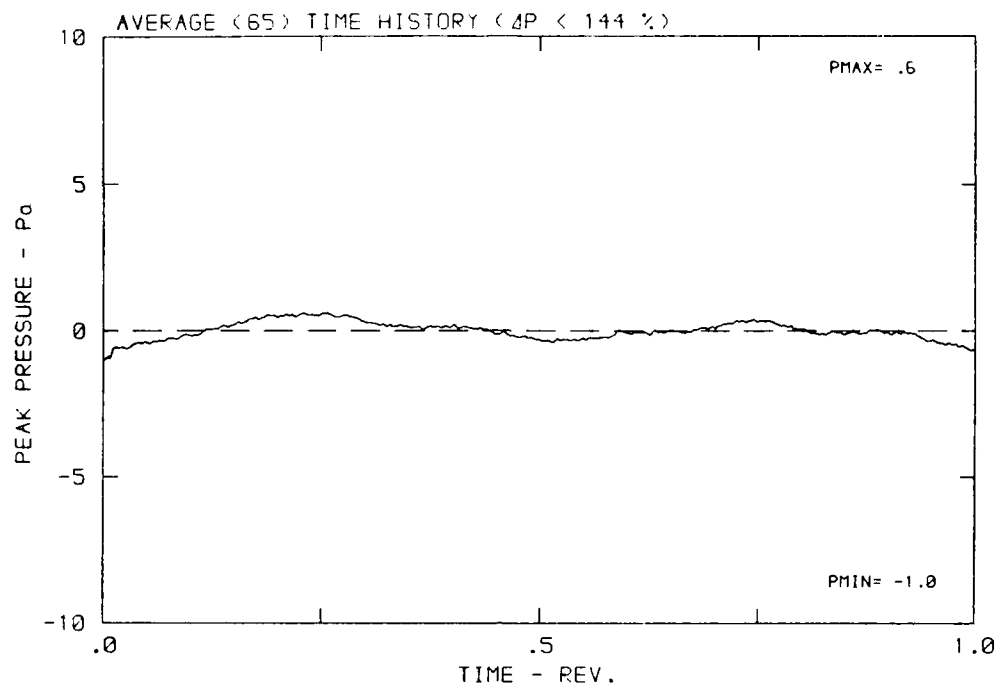
DATA POINT: DC-4 RUN: 113 MP: 7

β : 29.5° MH: .3622 n: 1055 rpm v/u: .455 ϕ : .0° T: 288.5 K



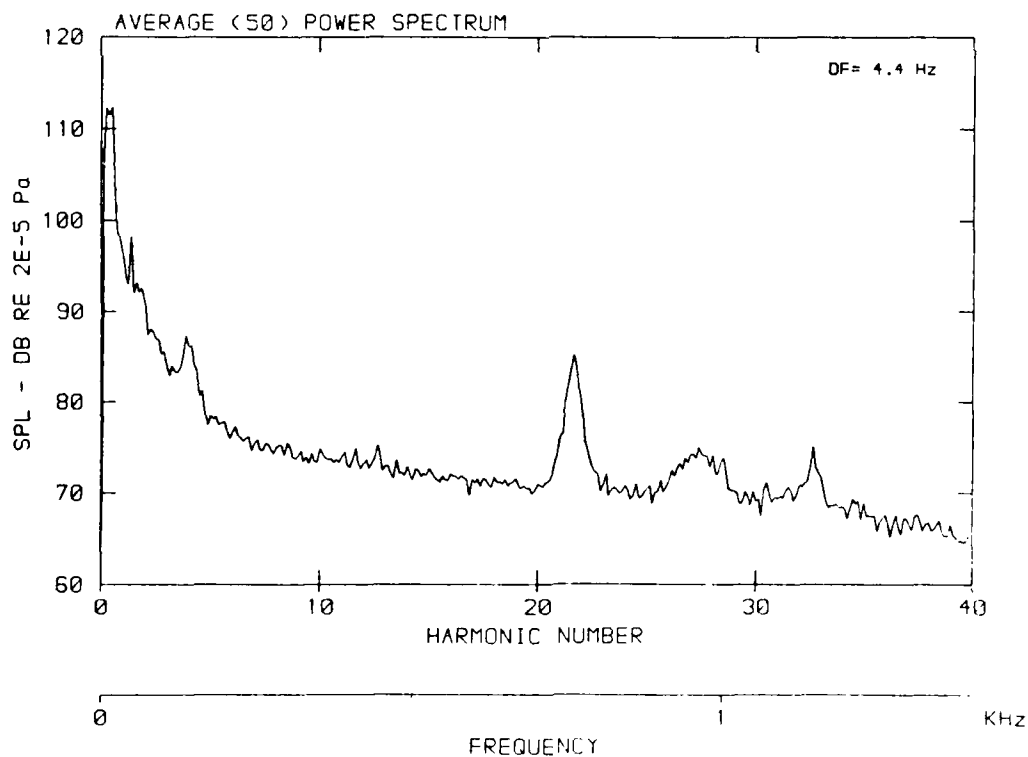
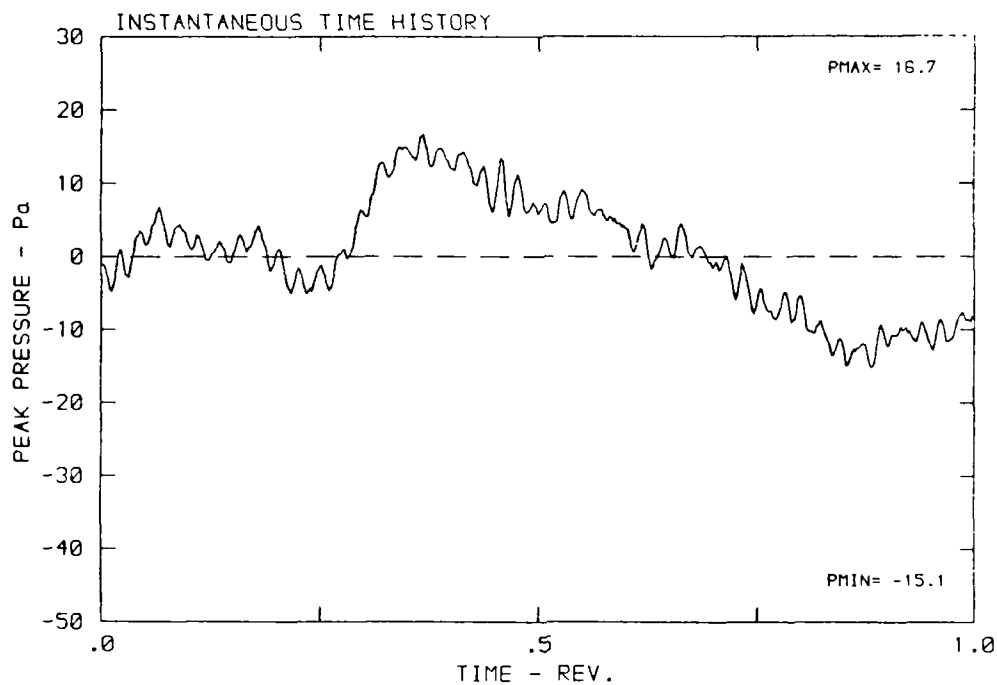
DATA POINT: DC-4 RUN: 113 MP: 7

β : 29.5° MH: .3622 n: 1055 rpm v/u : .455 ϕ : .0° T: 288.5 K



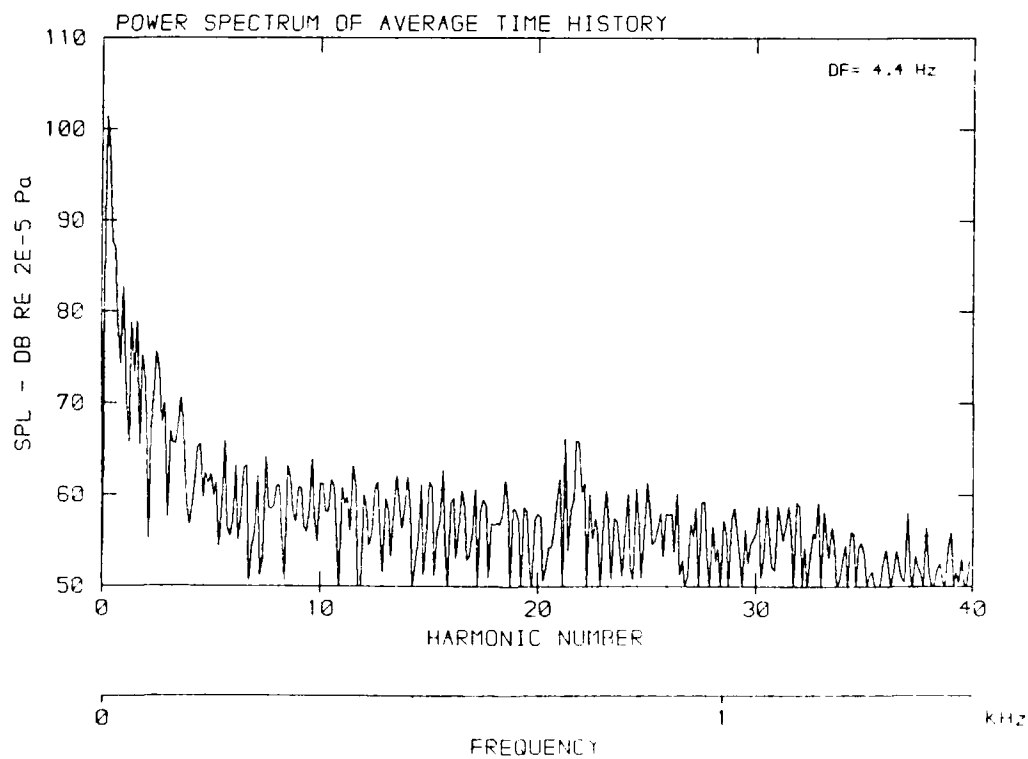
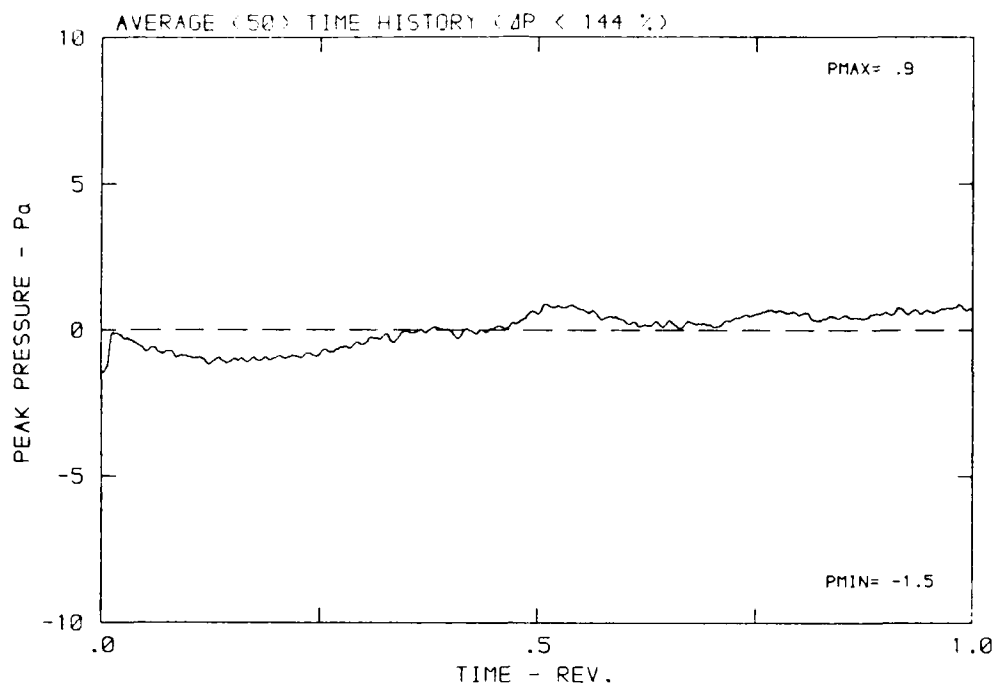
DATA POINT: DC-4 RUN: 113 MP: 9

β : 29.5° MH: .3622 n: 1055 rpm v/u : .455 ϕ : .0° T: 288.5 K



DATA POINT: DC-4 RUN: 113 MP: 9

β : 29.5° MH: .3622 n: 1055 rpm v/u : .455 ϕ : .0° T: 288.5 K



6. Propeller Rotational Harmonic Noise- and Overall Noise Levels

From all spectra of averaged time-histories the harmonic pressure levels are determined under the presupposition of a 10 dB signal-to-noise ratio, and are submitted to the A-weighting function. Both linear and A-weighted harmonic levels as well as the respective overall pressure levels (calculated from the energy sum of harmonic levels) are listed in the following tables.

DNW PROPELLER NOISE TEST

MICROPHONE: MP 1 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN										
AC-1 / 85				AC-2 / 84			AC-3 / 83			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	70.0	103.0	76.8	80.0	107.6	85.1	90.0	114.2	95.1	
2	140.0	94.4	78.3	160.0	104.7	91.3	180.0	111.8	100.9	
3	210.0	93.5	82.6	240.0	103.3	94.7	270.0	112.8	104.2	
4	280.0	87.8	79.2	320.0	100.8	94.2	360.0	110.8	106.0	
5	350.0	79.8	73.2	400.0	99.4	94.6	450.0	109.4	106.2	
6	420.0	76.8	72.0	480.0	93.4	90.2	540.0	104.1	100.9	
7	490.0	70.8	67.6	560.0	88.6	85.4	630.0	105.8	103.9	
8	560.0	67.9	64.7	640.0	87.3	85.4	720.0	106.5	105.7	
9	630.0	0.0	0.0	720.0	84.2	83.4	810.0	101.3	100.5	
10	700.0	0.0	0.0	800.0	78.9	78.1	900.0	101.9	101.9	
11	770.0	0.0	0.0	880.0	78.0	77.2	990.0	101.6	101.6	
12	840.0	0.0	0.0	960.0	68.2	68.2	1080.0	94.0	94.0	
13	910.0	0.0	0.0	1040.0	69.0	69.0	1170.0	94.1	94.7	
14	980.0	0.0	0.0	1120.0	0.0	0.0	1260.0	92.2	92.8	
15	1050.0	0.0	0.0	1200.0	0.0	0.0	1350.0	85.6	86.2	
16	1120.0	0.0	0.0	1280.0	0.0	0.0	1440.0	86.8	87.8	
17	1190.0	0.0	0.0	1360.0	0.0	0.0	1530.0	80.1	81.1	
18	1260.0	0.0	0.0	1440.0	0.0	0.0	1620.0	85.3	86.3	
19	1330.0	0.0	0.0	1520.0	0.0	0.0	1710.0	85.3	86.3	
20	1400.0	0.0	0.0	1600.0	0.0	0.0	1800.0	81.7	82.9	
21	1470.0	0.0	0.0	1680.0	0.0	0.0	1890.0	79.0	80.2	
22	1540.0	0.0	0.0	1760.0	0.0	0.0	1980.0	75.7	76.9	
23	1610.0	0.0	0.0	1840.0	0.0	0.0	2070.0	69.6	70.8	
24	1680.0	0.0	0.0	1920.0	0.0	0.0	2160.0	73.2	74.4	
25	1750.0	0.0	0.0	2000.0	0.0	0.0	2250.0	75.6	76.9	
26	1820.0	0.0	0.0	2080.0	0.0	0.0	2340.0	72.0	73.3	
27	1890.0	0.0	0.0	2160.0	0.0	0.0	2430.0	70.9	72.2	
28	1960.0	0.0	0.0	2240.0	0.0	0.0	2520.0	55.2	56.5	
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	0.0	0.0	
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	0.0	0.0	
31	2170.0	0.0	0.0	2480.0	0.0	0.0	2790.0	0.0	0.0	
32	2240.0	0.0	0.0	2560.0	0.0	0.0	2880.0	0.0	0.0	
33	2310.0	0.0	0.0	2640.0	0.0	0.0	2970.0	0.0	0.0	
34	2380.0	0.0	0.0	2720.0	0.0	0.0	3060.0	0.0	0.0	
35	2450.0	0.0	0.0	2800.0	0.0	0.0	3150.0	0.0	0.0	
36	2520.0	0.0	0.0	2880.0	0.0	0.0	3240.0	0.0	0.0	
37	2590.0	0.0	0.0	2960.0	0.0	0.0	3330.0	0.0	0.0	
38	2660.0	0.0	0.0	3040.0	0.0	0.0	3420.0	0.0	0.0	
39	2730.0	0.0	0.0	3120.0	0.0	0.0	3510.0	0.0	0.0	
40	2800.0	0.0	0.0	3200.0	0.0	0.0	3600.0	0.0	0.0	
OASPL		104.1	86.3	111.3		100.9	119.9		113.9	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 2 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN											
AC-1 / 85				AC-2 / 84			AC-3 / 83				
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	70.0	105.6	79.4	80.0	109.2	86.7	90.0	114.9	95.8		
2	140.0	102.5	86.4	160.0	109.6	96.2	180.0	119.2	108.3		
3	210.0	99.9	89.0	240.0	107.1	98.5	270.0	114.9	106.3		
4	280.0	96.1	87.5	320.0	103.8	97.2	360.0	118.0	113.2		
5	350.0	92.1	85.5	400.0	102.8	98.0	450.0	115.8	112.6		
6	420.0	88.1	83.3	480.0	103.3	100.1	540.0	116.1	112.9		
7	490.0	84.4	81.2	560.0	100.8	97.6	630.0	115.5	113.6		
8	560.0	80.0	76.8	640.0	97.2	95.3	720.0	112.1	111.3		
9	630.0	74.3	72.4	720.0	93.4	92.6	810.0	113.0	112.2		
10	700.0	69.0	67.1	800.0	93.0	92.2	900.0	113.4	113.4		
11	770.0	67.5	66.7	880.0	91.7	90.9	990.0	110.6	110.6		
12	840.0	64.2	63.4	960.0	87.1	87.1	1080.0	109.0	109.0		
13	910.0	0.0	0.0	1040.0	84.1	84.1	1170.0	109.6	110.2		
14	980.0	0.0	0.0	1120.0	82.4	82.4	1260.0	108.2	108.8		
15	1050.0	0.0	0.0	1200.0	80.5	81.1	1350.0	107.6	108.2		
16	1120.0	0.0	0.0	1280.0	78.1	78.7	1440.0	104.8	105.8		
17	1190.0	0.0	0.0	1360.0	74.0	74.6	1530.0	103.8	104.8		
18	1260.0	0.0	0.0	1440.0	69.9	70.9	1620.0	103.4	104.4		
19	1330.0	0.0	0.0	1520.0	69.4	70.4	1710.0	100.9	101.9		
20	1400.0	0.0	0.0	1600.0	66.7	67.7	1800.0	98.9	100.1		
21	1470.0	0.0	0.0	1680.0	60.0	61.0	1890.0	97.5	98.7		
22	1540.0	0.0	0.0	1760.0	0.0	0.0	1980.0	98.7	99.9		
23	1610.0	0.0	0.0	1840.0	0.0	0.0	2070.0	96.7	97.9		
24	1680.0	0.0	0.0	1920.0	0.0	0.0	2160.0	93.7	94.9		
25	1750.0	0.0	0.0	2000.0	0.0	0.0	2250.0	92.8	94.1		
26	1820.0	0.0	0.0	2080.0	0.0	0.0	2340.0	93.1	94.4		
27	1890.0	0.0	0.0	2160.0	0.0	0.0	2430.0	90.9	92.2		
28	1960.0	0.0	0.0	2240.0	0.0	0.0	2520.0	89.1	90.4		
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	91.0	92.3		
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	89.8	91.1		
31	2170.0	0.0	0.0	2480.0	0.0	0.0	2790.0	87.9	89.2		
32	2240.0	0.0	0.0	2560.0	0.0	0.0	2880.0	85.4	86.6		
33	2310.0	0.0	0.0	2640.0	0.0	0.0	2970.0	86.3	87.5		
34	2380.0	0.0	0.0	2720.0	0.0	0.0	3060.0	86.7	87.9		
35	2450.0	0.0	0.0	2800.0	0.0	0.0	3150.0	83.9	85.1		
36	2520.0	0.0	0.0	2880.0	0.0	0.0	3240.0	80.6	81.8		
37	2590.0	0.0	0.0	2960.0	0.0	0.0	3330.0	82.7	83.9		
38	2660.0	0.0	0.0	3040.0	0.0	0.0	3420.0	82.7	83.9		
39	2730.0	0.0	0.0	3120.0	0.0	0.0	3510.0	80.5	81.7		
40	2800.0	0.0	0.0	3200.0	0.0	0.0	3600.0	77.0	78.0		
OASPL		108.5	94.3			115.0	106.9			126.4	123.1

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 3 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN											
AC-1 / 85				AC-2 / 84				AC-3 / 83			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	70.0	107.2	81.0	80.0	111.2	88.7	90.0	116.4	97.3		
2	140.0	104.6	88.5	160.0	109.9	96.5	180.0	117.4	106.5		
3	210.0	100.5	89.6	240.0	109.3	100.7	270.0	116.4	107.8		
4	280.0	97.4	88.8	320.0	106.5	99.9	360.0	117.6	112.8		
5	350.0	93.0	86.4	400.0	107.5	102.7	450.0	118.5	115.3		
6	420.0	91.0	86.2	480.0	105.1	101.9	540.0	115.6	112.4		
7	490.0	86.6	83.4	560.0	101.2	98.0	630.0	117.4	115.5		
8	560.0	81.8	78.6	640.0	101.6	99.7	720.0	117.0	116.2		
9	630.0	79.5	77.6	720.0	99.9	99.1	810.0	116.3	115.5		
10	700.0	76.2	74.3	800.0	97.1	96.3	900.0	115.9	115.9		
11	770.0	71.0	70.2	880.0	94.5	93.7	990.0	115.3	115.3		
12	840.0	66.7	65.9	960.0	93.5	93.5	1080.0	113.3	113.3		
13	910.0	63.8	63.8	1040.0	90.5	90.5	1170.0	110.9	111.5		
14	980.0	0.0	0.0	1120.0	87.0	87.0	1260.0	112.5	113.1		
15	1050.0	0.0	0.0	1200.0	85.5	86.1	1350.0	110.7	111.3		
16	1120.0	0.0	0.0	1280.0	84.8	85.4	1440.0	108.6	109.6		
17	1190.0	0.0	0.0	1360.0	81.1	81.7	1530.0	108.0	109.0		
18	1260.0	0.0	0.0	1440.0	76.9	77.9	1620.0	108.8	109.8		
19	1330.0	0.0	0.0	1520.0	74.7	75.7	1710.0	106.5	107.5		
20	1400.0	0.0	0.0	1600.0	73.3	74.3	1800.0	103.0	104.2		
21	1470.0	0.0	0.0	1680.0	70.5	71.5	1890.0	103.8	105.0		
22	1540.0	0.0	0.0	1760.0	64.4	65.4	1980.0	103.4	104.6		
23	1610.0	0.0	0.0	1840.0	0.0	0.0	2070.0	100.7	101.9		
24	1680.0	0.0	0.0	1920.0	0.0	0.0	2160.0	99.8	101.0		
25	1750.0	0.0	0.0	2000.0	0.0	0.0	2250.0	100.8	102.1		
26	1820.0	0.0	0.0	2080.0	0.0	0.0	2340.0	97.7	99.0		
27	1890.0	0.0	0.0	2160.0	0.0	0.0	2430.0	96.2	97.5		
28	1960.0	0.0	0.0	2240.0	0.0	0.0	2520.0	97.7	99.0		
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	97.6	98.9		
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	96.0	97.3		
31	2170.0	0.0	0.0	2480.0	0.0	0.0	2790.0	95.6	96.9		
32	2240.0	0.0	0.0	2560.0	0.0	0.0	2880.0	96.2	97.4		
33	2310.0	0.0	0.0	2640.0	0.0	0.0	2970.0	95.2	96.4		
34	2380.0	0.0	0.0	2720.0	0.0	0.0	3060.0	94.8	96.0		
35	2450.0	0.0	0.0	2800.0	0.0	0.0	3150.0	92.1	93.3		
36	2520.0	0.0	0.0	2880.0	0.0	0.0	3240.0	90.9	92.1		
37	2590.0	0.0	0.0	2960.0	0.0	0.0	3330.0	92.4	93.6		
38	2660.0	0.0	0.0	3040.0	0.0	0.0	3420.0	91.1	92.3		
39	2730.0	0.0	0.0	3120.0	0.0	0.0	3510.0	87.6	88.8		
40	2800.0	0.0	0.0	3200.0	0.0	0.0	3600.0	87.4	88.4		
OASPL		110.1	95.7		117.0	109.8		128.0	125.9		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 4 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN											
AC-1 / 85				AC-2 / 84				AC-3 / 83			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	70.0	108.4	82.2	80.0	113.3	90.8	90.0	117.9	98.8		
2	140.0	105.6	89.5	160.0	109.7	96.3	180.0	116.6	105.7		
3	210.0	100.4	89.5	240.0	110.5	101.9	270.0	119.1	110.5		
4	280.0	98.7	90.1	320.0	108.4	101.8	360.0	117.9	113.1		
5	350.0	93.2	86.6	400.0	106.4	101.6	450.0	118.3	115.1		
6	420.0	92.0	87.2	480.0	104.5	101.3	540.0	116.8	113.6		
7	490.0	86.9	83.7	560.0	104.0	100.8	630.0	118.4	116.5		
8	560.0	84.5	81.3	640.0	102.7	100.8	720.0	116.3	115.5		
9	630.0	81.0	79.1	720.0	99.1	98.3	810.0	116.3	115.5		
10	700.0	76.4	74.5	800.0	98.1	97.3	900.0	116.1	116.1		
11	770.0	72.6	71.8	880.0	96.0	95.2	990.0	114.6	114.6		
12	840.0	70.4	69.6	960.0	92.2	92.2	1080.0	114.1	114.1		
13	910.0	63.6	63.6	1040.0	91.5	91.5	1170.0	114.2	114.8		
14	980.0	0.0	0.0	1120.0	90.1	90.1	1260.0	110.8	111.4		
15	1050.0	0.0	0.0	1200.0	86.7	87.3	1350.0	111.9	112.5		
16	1120.0	0.0	0.0	1280.0	82.5	83.1	1440.0	110.5	111.5		
17	1190.0	0.0	0.0	1360.0	83.2	83.8	1530.0	108.1	109.1		
18	1260.0	0.0	0.0	1440.0	79.5	80.5	1620.0	106.8	107.8		
19	1330.0	0.0	0.0	1520.0	76.6	77.6	1710.0	106.9	107.9		
20	1400.0	0.0	0.0	1600.0	73.1	74.1	1800.0	105.6	106.8		
21	1470.0	0.0	0.0	1680.0	70.6	71.6	1890.0	103.0	104.2		
22	1540.0	0.0	0.0	1760.0	67.2	68.2	1980.0	101.8	103.0		
23	1610.0	0.0	0.0	1840.0	0.0	0.0	2070.0	101.2	102.4		
24	1680.0	0.0	0.0	1920.0	0.0	0.0	2160.0	99.5	100.7		
25	1750.0	0.0	0.0	2000.0	0.0	0.0	2250.0	98.7	100.0		
26	1820.0	0.0	0.0	2080.0	0.0	0.0	2340.0	98.3	99.6		
27	1890.0	0.0	0.0	2160.0	0.0	0.0	2430.0	98.0	99.3		
28	1960.0	0.0	0.0	2240.0	0.0	0.0	2520.0	97.4	98.7		
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	97.9	99.2		
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	96.9	98.2		
31	2170.0	0.0	0.0	2480.0	0.0	0.0	2790.0	96.2	97.5		
32	2240.0	0.0	0.0	2560.0	0.0	0.0	2880.0	96.3	97.5		
33	2310.0	0.0	0.0	2640.0	0.0	0.0	2970.0	94.7	95.9		
34	2380.0	0.0	0.0	2720.0	0.0	0.0	3060.0	92.8	94.0		
35	2450.0	0.0	0.0	2800.0	0.0	0.0	3150.0	94.8	96.0		
36	2520.0	0.0	0.0	2880.0	0.0	0.0	3240.0	93.5	94.7		
37	2590.0	0.0	0.0	2960.0	0.0	0.0	3330.0	91.7	92.9		
38	2660.0	0.0	0.0	3040.0	0.0	0.0	3420.0	92.0	93.2		
39	2730.0	0.0	0.0	3120.0	0.0	0.0	3510.0	91.3	92.5		
40	2800.0	0.0	0.0	3200.0	0.0	0.0	3600.0	90.1	91.1		
OASPL		111.1	96.5			118.0	110.4			128.5	126.2

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 5 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN										
AC-1 / 85				AC-2 / 84				AC-3 / 83		
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	70.0	109.7	83.5	80.0	115.5	93.0	90.0	120.1	101.0	
2	140.0	106.3	90.2	160.0	110.7	97.3	180.0	115.1	104.2	
3	210.0	97.7	86.8	240.0	108.7	100.1	270.0	118.9	110.3	
4	280.0	96.8	88.2	320.0	111.6	105.0	360.0	120.9	116.1	
5	350.0	98.0	91.4	400.0	107.1	102.3	450.0	113.2	110.0	
6	420.0	89.0	84.2	480.0	101.4	93.2	540.0	116.7	113.5	
7	490.0	83.6	80.4	560.0	102.9	99.7	630.0	118.9	117.0	
8	560.0	83.5	80.3	640.0	101.9	100.0	720.0	113.8	113.0	
9	630.0	79.9	78.0	720.0	97.8	97.0	810.0	114.7	113.9	
10	700.0	73.8	71.9	800.0	95.0	94.2	900.0	113.4	113.4	
11	770.0	69.5	68.7	880.0	92.5	91.7	990.0	113.7	113.7	
12	840.0	66.7	65.9	960.0	92.7	92.7	1080.0	111.5	111.5	
13	910.0	0.0	0.0	1040.0	89.5	89.5	1170.0	110.9	111.5	
14	980.0	0.0	0.0	1120.0	85.8	85.8	1260.0	110.5	111.1	
15	1050.0	0.0	0.0	1200.0	84.8	85.4	1350.0	108.2	108.8	
16	1120.0	0.0	0.0	1280.0	83.7	84.3	1440.0	106.3	107.3	
17	1190.0	0.0	0.0	1360.0	78.1	78.7	1530.0	105.9	106.9	
18	1260.0	0.0	0.0	1440.0	75.3	76.3	1620.0	103.3	104.3	
19	1330.0	0.0	0.0	1520.0	75.7	76.7	1710.0	100.9	101.9	
20	1400.0	0.0	0.0	1600.0	69.3	70.3	1800.0	101.5	102.7	
21	1470.0	0.0	0.0	1680.0	64.5	65.5	1890.0	98.0	99.2	
22	1540.0	0.0	0.0	1760.0	67.2	68.2	1980.0	96.8	98.0	
23	1610.0	0.0	0.0	1840.0	61.2	62.4	2070.0	98.9	100.1	
24	1680.0	0.0	0.0	1920.0	0.0	0.0	2160.0	94.4	95.6	
25	1750.0	0.0	0.0	2000.0	0.0	0.0	2250.0	94.8	96.1	
26	1820.0	0.0	0.0	2080.0	0.0	0.0	2340.0	94.9	96.2	
27	1890.0	0.0	0.0	2160.0	0.0	0.0	2430.0	90.6	91.9	
28	1960.0	0.0	0.0	2240.0	0.0	0.0	2520.0	93.9	95.2	
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	89.1	90.4	
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	90.0	91.3	
31	2170.0	0.0	0.0	2480.0	0.0	0.0	2790.0	92.6	93.9	
32	2240.0	0.0	0.0	2560.0	0.0	0.0	2880.0	86.0	87.2	
33	2310.0	0.0	0.0	2640.0	0.0	0.0	2970.0	88.6	89.8	
34	2380.0	0.0	0.0	2720.0	0.0	0.0	3060.0	91.2	92.4	
35	2450.0	0.0	0.0	2800.0	0.0	0.0	3150.0	81.7	82.9	
36	2520.0	0.0	0.0	2880.0	0.0	0.0	3240.0	87.4	88.6	
37	2590.0	0.0	0.0	2960.0	0.0	0.0	3330.0	86.8	88.0	
38	2660.0	0.0	0.0	3040.0	0.0	0.0	3420.0	81.4	82.6	
39	2730.0	0.0	0.0	3120.0	0.0	0.0	3510.0	84.3	85.5	
40	2800.0	0.0	0.0	3200.0	0.0	0.0	3600.0	80.9	81.9	
OASPL		111.9	96.4	119.0		110.2	128.1		124.8	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 6 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN											
AC-1 / 85				AC-2 / 84				AC-3 / 83			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	70.0	112.1	85.9	80.0	117.8	95.3	90.0	122.6	103.5		
2	140.0	106.1	90.0	160.0	115.9	102.5	180.0	115.6	104.7		
3	210.0	97.6	86.7	240.0	104.3	95.7	270.0	119.0	110.4		
4	280.0	98.3	89.7	320.0	111.4	104.8	360.0	120.7	115.9		
5	350.0	93.8	87.2	400.0	103.9	99.1	450.0	110.0	106.8		
6	420.0	86.0	81.2	480.0	98.5	95.3	540.0	117.2	114.0		
7	490.0	78.4	75.2	560.0	101.1	97.9	630.0	114.9	113.0		
8	560.0	0.0	0.0	640.0	96.7	94.8	720.0	106.0	105.2		
9	630.0	0.0	0.0	720.0	80.6	79.8	810.0	111.9	111.1		
10	700.0	0.0	0.0	800.0	93.0	92.2	900.0	110.7	110.7		
11	770.0	0.0	0.0	880.0	89.3	88.5	990.0	97.5	97.5		
12	840.0	0.0	0.0	960.0	82.3	82.3	1080.0	107.3	107.3		
13	910.0	0.0	0.0	1040.0	79.9	79.9	1170.0	102.6	103.2		
14	980.0	0.0	0.0	1120.0	82.1	82.1	1260.0	97.9	98.5		
15	1050.0	0.0	0.0	1200.0	71.0	71.6	1350.0	98.3	98.9		
16	1120.0	0.0	0.0	1280.0	0.0	0.0	1440.0	95.5	96.5		
17	1190.0	0.0	0.0	1360.0	0.0	0.0	1530.0	94.4	95.4		
18	1260.0	0.0	0.0	1440.0	0.0	0.0	1620.0	92.8	93.8		
19	1330.0	0.0	0.0	1520.0	0.0	0.0	1710.0	93.3	94.3		
20	1400.0	0.0	0.0	1600.0	0.0	0.0	1800.0	88.1	89.3		
21	1470.0	0.0	0.0	1680.0	0.0	0.0	1890.0	87.1	88.3		
22	1540.0	0.0	0.0	1760.0	0.0	0.0	1980.0	82.2	83.4		
23	1610.0	0.0	0.0	1840.0	0.0	0.0	2070.0	77.3	78.5		
24	1680.0	0.0	0.0	1920.0	0.0	0.0	2160.0	85.8	87.0		
25	1750.0	0.0	0.0	2000.0	0.0	0.0	2250.0	71.3	72.6		
26	1820.0	0.0	0.0	2080.0	0.0	0.0	2340.0	82.7	84.0		
27	1890.0	0.0	0.0	2160.0	0.0	0.0	2430.0	79.5	80.8		
28	1960.0	0.0	0.0	2240.0	0.0	0.0	2520.0	75.7	77.0		
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	79.2	80.5		
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	77.7	79.0		
31	2170.0	0.0	0.0	2480.0	0.0	0.0	2790.0	74.7	76.0		
32	2240.0	0.0	0.0	2560.0	0.0	0.0	2880.0	79.0	80.2		
33	2310.0	0.0	0.0	2640.0	0.0	0.0	2970.0	66.9	68.1		
34	2380.0	0.0	0.0	2720.0	0.0	0.0	3060.0	0.0	0.0		
35	2450.0	0.0	0.0	2800.0	0.0	0.0	3150.0	0.0	0.0		
36	2520.0	0.0	0.0	2880.0	0.0	0.0	3240.0	0.0	0.0		
37	2590.0	0.0	0.0	2960.0	0.0	0.0	3330.0	0.0	0.0		
38	2660.0	0.0	0.0	3040.0	0.0	0.0	3420.0	0.0	0.0		
39	2730.0	0.0	0.0	3120.0	0.0	0.0	3510.0	0.0	0.0		
40	2800.0	0.0	0.0	3200.0	0.0	0.0	3600.0	0.0	0.0		
OASPL		113.4	95.4		120.8	108.9		127.4	121.6		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 7 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN										
AC-1 / 85				AC-2 / 84			AC-3 / 83			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	70.0	107.6	81.4	80.0	112.7	90.2	90.0	118.9	99.8	
2	140.0	96.4	80.3	160.0	103.0	89.6	180.0	112.3	101.4	
3	210.0	90.4	79.5	240.0	101.7	93.1	270.0	103.7	95.1	
4	280.0	79.4	70.8	320.0	95.1	88.5	360.0	104.8	100.0	
5	350.0	0.0	0.0	400.0	84.4	79.6	450.0	91.1	87.9	
6	420.0	0.0	0.0	480.0	82.9	79.7	540.0	96.5	93.3	
7	490.0	0.0	0.0	560.0	82.6	79.4	630.0	95.1	93.2	
8	560.0	0.0	0.0	640.0	78.7	76.8	720.0	90.7	89.9	
9	630.0	0.0	0.0	720.0	77.2	76.4	810.0	93.8	93.0	
10	700.0	0.0	0.0	800.0	70.3	69.5	900.0	88.9	88.9	
11	770.0	0.0	0.0	880.0	0.0	0.0	990.0	86.6	86.6	
12	840.0	0.0	0.0	960.0	0.0	0.0	1080.0	90.8	90.8	
13	910.0	0.0	0.0	1040.0	0.0	0.0	1170.0	90.7	91.3	
14	980.0	0.0	0.0	1120.0	0.0	0.0	1260.0	69.1	69.7	
15	1050.0	0.0	0.0	1200.0	0.0	0.0	1350.0	0.0	0.0	
16	1120.0	0.0	0.0	1280.0	0.0	0.0	1440.0	0.0	0.0	
17	1190.0	0.0	0.0	1360.0	0.0	0.0	1530.0	0.0	0.0	
18	1260.0	0.0	0.0	1440.0	0.0	0.0	1620.0	0.0	0.0	
19	1330.0	0.0	0.0	1520.0	0.0	0.0	1710.0	0.0	0.0	
20	1400.0	0.0	0.0	1600.0	0.0	0.0	1800.0	0.0	0.0	
21	1470.0	0.0	0.0	1680.0	0.0	0.0	1890.0	0.0	0.0	
22	1540.0	0.0	0.0	1760.0	0.0	0.0	1980.0	0.0	0.0	
23	1610.0	0.0	0.0	1840.0	0.0	0.0	2070.0	0.0	0.0	
24	1680.0	0.0	0.0	1920.0	0.0	0.0	2160.0	0.0	0.0	
25	1750.0	0.0	0.0	2000.0	0.0	0.0	2250.0	0.0	0.0	
26	1820.0	0.0	0.0	2080.0	0.0	0.0	2340.0	0.0	0.0	
27	1890.0	0.0	0.0	2160.0	0.0	0.0	2430.0	0.0	0.0	
28	1960.0	0.0	0.0	2240.0	0.0	0.0	2520.0	0.0	0.0	
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	0.0	0.0	
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	0.0	0.0	
31	2170.0	0.0	0.0	2480.0	0.0	0.0	2790.0	0.0	0.0	
32	2240.0	0.0	0.0	2560.0	0.0	0.0	2880.0	0.0	0.0	
33	2310.0	0.0	0.0	2640.0	0.0	0.0	2970.0	0.0	0.0	
34	2380.0	0.0	0.0	2720.0	0.0	0.0	3060.0	0.0	0.0	
35	2450.0	0.0	0.0	2800.0	0.0	0.0	3150.0	0.0	0.0	
36	2520.0	0.0	0.0	2880.0	0.0	0.0	3240.0	0.0	0.0	
37	2590.0	0.0	0.0	2960.0	0.0	0.0	3330.0	0.0	0.0	
38	2660.0	0.0	0.0	3040.0	0.0	0.0	3420.0	0.0	0.0	
39	2730.0	0.0	0.0	3120.0	0.0	0.0	3510.0	0.0	0.0	
40	2800.0	0.0	0.0	3200.0	0.0	0.0	3600.0	0.0	0.0	
OASPL		108.0	85.4	113.5		97.1	120.1		106.9	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 9 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN										
AC-1 / 85				AC-2 / 84				AC-3 / 83		
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	70.0	105.5	79.3	80.0	111.2	88.7	90.0	115.4	96.3	
2	140.0	103.8	87.7	160.0	107.9	94.5	180.0	112.9	102.0	
3	210.0	96.0	85.1	240.0	107.8	99.2	270.0	119.3	110.7	
4	280.0	100.2	91.6	320.0	109.6	103.0	360.0	117.4	112.6	
5	350.0	94.8	88.2	400.0	103.9	99.1	450.0	115.4	112.2	
6	420.0	86.6	81.8	480.0	103.2	100.0	540.0	117.2	114.0	
7	490.0	85.0	81.8	560.0	103.8	100.6	630.0	115.5	113.6	
8	560.0	83.5	80.3	640.0	99.3	97.4	720.0	114.3	113.5	
9	630.0	80.0	78.1	720.0	97.2	96.4	810.0	116.2	115.4	
10	700.0	75.6	73.7	800.0	97.6	96.8	900.0	112.7	112.7	
11	770.0	71.7	70.9	880.0	94.1	93.3	990.0	112.5	112.5	
12	840.0	0.0	0.0	960.0	90.5	90.5	1080.0	113.1	113.1	
13	910.0	0.0	0.0	1040.0	91.5	91.5	1170.0	111.9	112.5	
14	980.0	0.0	0.0	1120.0	88.5	88.5	1260.0	108.1	108.7	
15	1050.0	0.0	0.0	1200.0	86.6	87.2	1350.0	110.1	110.7	
16	1120.0	0.0	0.0	1280.0	80.4	81.0	1440.0	109.1	110.1	
17	1190.0	0.0	0.0	1360.0	80.9	81.5	1530.0	105.6	106.6	
18	1260.0	0.0	0.0	1440.0	79.2	80.2	1620.0	106.2	107.2	
19	1330.0	0.0	0.0	1520.0	75.2	76.2	1710.0	104.5	105.5	
20	1400.0	0.0	0.0	1600.0	72.2	73.2	1800.0	102.6	103.8	
21	1470.0	0.0	0.0	1680.0	70.9	71.9	1890.0	103.2	104.4	
22	1540.0	0.0	0.0	1760.0	69.1	70.1	1980.0	99.9	101.1	
23	1610.0	0.0	0.0	1840.0	63.0	64.2	2070.0	99.6	100.8	
24	1680.0	0.0	0.0	1920.0	0.0	0.0	2160.0	101.6	102.8	
25	1750.0	0.0	0.0	2000.0	0.0	0.0	2250.0	93.9	95.2	
26	1820.0	0.0	0.0	2080.0	0.0	0.0	2340.0	98.2	99.5	
27	1890.0	0.0	0.0	2160.0	0.0	0.0	2430.0	98.7	100.0	
28	1960.0	0.0	0.0	2240.0	0.0	0.0	2520.0	95.0	96.3	
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	97.1	98.4	
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	96.2	97.5	
31	2170.0	0.0	0.0	2480.0	0.0	0.0	2790.0	94.5	95.8	
32	2240.0	0.0	0.0	2560.0	0.0	0.0	2880.0	96.0	97.2	
33	2310.0	0.0	0.0	2640.0	0.0	0.0	2970.0	93.7	94.9	
34	2380.0	0.0	0.0	2720.0	0.0	0.0	3060.0	93.3	94.5	
35	2450.0	0.0	0.0	2800.0	0.0	0.0	3150.0	93.4	94.6	
36	2520.0	0.0	0.0	2880.0	0.0	0.0	3240.0	93.7	94.9	
37	2590.0	0.0	0.0	2960.0	0.0	0.0	3330.0	89.8	91.0	
38	2660.0	0.0	0.0	3040.0	0.0	0.0	3420.0	91.4	92.6	
39	2730.0	0.0	0.0	3120.0	0.0	0.0	3510.0	92.6	93.8	
40	2800.0	0.0	0.0	3200.0	0.0	0.0	3600.0	87.6	88.6	
OASPL		108.9	95.6	116.4		109.2	127.0		124.6	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 1 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN										
AC-7 / 82				AC-4 / 80			AC-5 / 81			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	73.0	102.7	80.2	80.0	107.8	85.3	90.0	113.4	94.3	
2	146.0	98.6	85.2	160.0	102.8	89.4	180.0	112.5	101.6	
3	219.0	96.9	86.0	240.0	103.8	95.2	270.0	112.1	103.5	
4	292.0	93.3	86.7	320.0	101.8	95.2	360.0	110.5	105.7	
5	365.0	90.9	86.1	400.0	98.5	93.7	450.0	108.6	105.4	
6	438.0	84.0	79.2	480.0	92.6	89.4	540.0	105.2	102.0	
7	511.0	80.4	77.2	560.0	91.3	88.1	630.0	106.4	104.5	
8	584.0	71.0	69.1	640.0	88.8	86.9	720.0	106.9	106.1	
9	657.0	0.0	0.0	720.0	86.9	86.1	810.0	102.8	102.0	
10	730.0	0.0	0.0	800.0	76.0	75.2	900.0	102.0	102.0	
11	803.0	0.0	0.0	880.0	0.0	0.0	990.0	99.9	99.9	
12	876.0	0.0	0.0	960.0	0.0	0.0	1080.0	94.7	94.7	
13	949.0	0.0	0.0	1040.0	0.0	0.0	1170.0	93.2	93.8	
14	1022.0	0.0	0.0	1120.0	0.0	0.0	1260.0	91.5	92.1	
15	1095.0	0.0	0.0	1200.0	0.0	0.0	1350.0	89.4	90.0	
16	1168.0	0.0	0.0	1280.0	0.0	0.0	1440.0	87.1	88.1	
17	1241.0	0.0	0.0	1360.0	0.0	0.0	1530.0	89.3	90.3	
18	1314.0	0.0	0.0	1440.0	0.0	0.0	1620.0	84.5	85.5	
19	1387.0	0.0	0.0	1520.0	0.0	0.0	1710.0	74.4	75.4	
20	1460.0	0.0	0.0	1600.0	0.0	0.0	1800.0	0.0	0.0	
21	1533.0	0.0	0.0	1680.0	0.0	0.0	1890.0	0.0	0.0	
22	1606.0	0.0	0.0	1760.0	0.0	0.0	1980.0	0.0	0.0	
23	1679.0	0.0	0.0	1840.0	0.0	0.0	2070.0	0.0	0.0	
24	1752.0	0.0	0.0	1920.0	0.0	0.0	2160.0	0.0	0.0	
25	1825.0	0.0	0.0	2000.0	0.0	0.0	2250.0	0.0	0.0	
26	1898.0	0.0	0.0	2080.0	0.0	0.0	2340.0	0.0	0.0	
27	1971.0	0.0	0.0	2160.0	0.0	0.0	2430.0	0.0	0.0	
28	2044.0	0.0	0.0	2240.0	0.0	0.0	2520.0	0.0	0.0	
29	2117.0	0.0	0.0	2320.0	0.0	0.0	2610.0	0.0	0.0	
30	2190.0	0.0	0.0	2400.0	0.0	0.0	2700.0	0.0	0.0	
31	2263.0	0.0	0.0	2480.0	0.0	0.0	2790.0	0.0	0.0	
32	2336.0	0.0	0.0	2560.0	0.0	0.0	2880.0	0.0	0.0	
33	2409.0	0.0	0.0	2640.0	0.0	0.0	2970.0	0.0	0.0	
34	2482.0	0.0	0.0	2720.0	0.0	0.0	3060.0	0.0	0.0	
35	2555.0	0.0	0.0	2800.0	0.0	0.0	3150.0	0.0	0.0	
36	2628.0	0.0	0.0	2880.0	0.0	0.0	3240.0	0.0	0.0	
37	2701.0	0.0	0.0	2960.0	0.0	0.0	3330.0	0.0	0.0	
38	2774.0	0.0	0.0	3040.0	0.0	0.0	3420.0	0.0	0.0	
39	2847.0	0.0	0.0	3120.0	0.0	0.0	3510.0	0.0	0.0	
40	2920.0	0.0	0.0	3200.0	0.0	0.0	3600.0	0.0	0.0	
OASPL		105.4	92.7	111.2			101.0	119.7		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 2 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN										
AC-7 / 82				AC-4 / 80			AC-5 / 81			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	73.0	102.4	79.9	80.0	107.2	84.7	90.0	114.1	95.0	
2	146.0	104.0	90.6	160.0	108.7	95.3	180.0	115.0	104.1	
3	219.0	101.2	90.3	240.0	107.0	98.4	270.0	115.8	107.2	
4	292.0	98.2	91.6	320.0	104.2	97.6	360.0	117.9	113.1	
5	365.0	96.0	91.2	400.0	103.7	98.9	450.0	116.2	113.0	
6	438.0	94.5	89.7	480.0	103.9	100.7	540.0	116.6	113.4	
7	511.0	92.8	89.6	560.0	101.3	98.1	630.0	115.1	113.2	
8	584.0	86.3	84.4	640.0	98.4	96.5	720.0	112.7	111.9	
9	657.0	83.6	81.7	720.0	94.6	93.8	810.0	113.4	112.6	
10	730.0	78.3	77.5	800.0	94.9	94.1	900.0	113.7	113.7	
11	803.0	80.8	80.0	880.0	93.2	92.4	990.0	111.0	111.0	
12	876.0	73.2	72.4	960.0	88.8	88.8	1080.0	109.3	109.3	
13	949.0	69.6	69.6	1040.0	86.0	86.0	1170.0	109.9	110.5	
14	1022.0	0.0	0.0	1120.0	84.9	84.9	1260.0	108.7	109.3	
15	1095.0	0.0	0.0	1200.0	83.6	84.2	1350.0	107.8	108.4	
16	1168.0	0.0	0.0	1280.0	78.5	79.1	1440.0	105.4	106.4	
17	1241.0	0.0	0.0	1360.0	77.5	78.1	1530.0	103.8	104.8	
18	1314.0	0.0	0.0	1440.0	69.9	70.9	1620.0	103.4	104.4	
19	1387.0	0.0	0.0	1520.0	0.0	0.0	1710.0	101.1	102.1	
20	1460.0	0.0	0.0	1600.0	0.0	0.0	1800.0	98.6	99.8	
21	1533.0	0.0	0.0	1680.0	0.0	0.0	1890.0	97.4	98.6	
22	1606.0	0.0	0.0	1760.0	0.0	0.0	1980.0	98.4	99.6	
23	1679.0	0.0	0.0	1840.0	0.0	0.0	2070.0	95.8	97.0	
24	1752.0	0.0	0.0	1920.0	0.0	0.0	2160.0	92.7	93.9	
25	1825.0	0.0	0.0	2000.0	0.0	0.0	2250.0	92.6	93.9	
26	1898.0	0.0	0.0	2080.0	0.0	0.0	2340.0	93.3	94.6	
27	1971.0	0.0	0.0	2160.0	0.0	0.0	2430.0	90.6	91.9	
28	2044.0	0.0	0.0	2240.0	0.0	0.0	2520.0	87.9	89.2	
29	2117.0	0.0	0.0	2320.0	0.0	0.0	2610.0	90.8	92.1	
30	2190.0	0.0	0.0	2400.0	0.0	0.0	2700.0	89.3	90.6	
31	2263.0	0.0	0.0	2480.0	0.0	0.0	2790.0	86.5	87.8	
32	2336.0	0.0	0.0	2560.0	0.0	0.0	2880.0	84.2	85.4	
33	2409.0	0.0	0.0	2640.0	0.0	0.0	2970.0	86.8	88.0	
34	2482.0	0.0	0.0	2720.0	0.0	0.0	3060.0	86.5	87.7	
35	2555.0	0.0	0.0	2800.0	0.0	0.0	3150.0	82.5	83.7	
36	2628.0	0.0	0.0	2880.0	0.0	0.0	3240.0	80.1	81.3	
37	2701.0	0.0	0.0	2960.0	0.0	0.0	3330.0	82.8	84.0	
38	2774.0	0.0	0.0	3040.0	0.0	0.0	3420.0	81.9	83.1	
39	2847.0	0.0	0.0	3120.0	0.0	0.0	3510.0	77.0	78.2	
40	2920.0	0.0	0.0	3200.0	0.0	0.0	3600.0	77.8	78.8	
OASPL		108.6	98.8	114.5		107.5	126.0		123.3	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 3 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN										
AC-7 / 82				AC-4 / 80				AC-5 / 81		
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	73.0	104.1	81.6	80.0	108.5	86.0	90.0	115.7	96.6	
2	146.0	104.3	90.9	160.0	108.6	95.2	180.0	116.7	105.8	
3	219.0	101.3	90.4	240.0	108.3	99.7	270.0	116.3	107.7	
4	292.0	98.5	91.9	320.0	106.1	99.5	360.0	117.3	112.5	
5	365.0	99.3	94.5	400.0	107.3	102.5	450.0	118.1	114.9	
6	438.0	96.6	91.8	480.0	104.9	101.7	540.0	115.5	112.3	
7	511.0	92.5	89.3	560.0	102.0	98.8	630.0	117.4	115.5	
8	584.0	89.0	87.1	640.0	102.2	100.3	720.0	117.1	116.3	
9	657.0	88.1	86.2	720.0	100.8	100.0	810.0	118.2	115.4	
10	730.0	85.4	84.6	800.0	97.9	97.1	900.0	116.0	116.0	
11	803.0	81.2	80.4	880.0	95.8	95.0	990.0	115.4	115.4	
12	876.0	76.4	75.6	960.0	95.0	95.0	1080.0	113.5	113.5	
13	949.0	0.0	0.0	1040.0	92.0	92.0	1170.0	111.2	111.8	
14	1022.0	0.0	0.0	1120.0	89.0	89.0	1260.0	112.8	113.4	
15	1095.0	0.0	0.0	1200.0	87.3	87.9	1350.0	110.9	111.5	
16	1168.0	0.0	0.0	1280.0	87.1	87.7	1440.0	109.0	110.0	
17	1241.0	0.0	0.0	1360.0	81.6	82.2	1530.0	108.3	109.3	
18	1314.0	0.0	0.0	1440.0	80.4	81.4	1620.0	109.0	110.0	
19	1387.0	0.0	0.0	1520.0	76.2	77.2	1710.0	106.1	107.1	
20	1460.0	0.0	0.0	1600.0	77.3	78.3	1800.0	103.2	104.4	
21	1533.0	0.0	0.0	1680.0	72.6	73.6	1890.0	103.6	104.8	
22	1606.0	0.0	0.0	1760.0	69.6	70.6	1980.0	102.9	104.1	
23	1679.0	0.0	0.0	1840.0	66.1	67.3	2070.0	100.3	101.5	
24	1752.0	0.0	0.0	1920.0	0.0	0.0	2160.0	99.6	100.8	
25	1825.0	0.0	0.0	2000.0	0.0	0.0	2250.0	100.2	101.5	
26	1898.0	0.0	0.0	2080.0	0.0	0.0	2340.0	97.1	98.4	
27	1971.0	0.0	0.0	2160.0	0.0	0.0	2430.0	96.1	97.4	
28	2044.0	0.0	0.0	2240.0	0.0	0.0	2520.0	97.1	98.4	
29	2117.0	0.0	0.0	2320.0	0.0	0.0	2610.0	96.9	98.2	
30	2190.0	0.0	0.0	2400.0	0.0	0.0	2700.0	95.3	96.6	
31	2263.0	0.0	0.0	2480.0	0.0	0.0	2790.0	94.8	96.1	
32	2336.0	0.0	0.0	2560.0	0.0	0.0	2880.0	95.3	96.5	
33	2409.0	0.0	0.0	2640.0	0.0	0.0	2970.0	94.4	95.6	
34	2482.0	0.0	0.0	2720.0	0.0	0.0	3060.0	93.5	94.7	
35	2555.0	0.0	0.0	2800.0	0.0	0.0	3150.0	90.9	92.1	
36	2628.0	0.0	0.0	2880.0	0.0	0.0	3240.0	90.8	92.0	
37	2701.0	0.0	0.0	2960.0	0.0	0.0	3330.0	92.0	93.2	
38	2774.0	0.0	0.0	3040.0	0.0	0.0	3420.0	90.5	91.7	
39	2847.0	0.0	0.0	3120.0	0.0	0.0	3510.0	87.4	88.6	
40	2920.0	0.0	0.0	3200.0	0.0	0.0	3600.0	88.3	89.3	
OASPL		109.5	100.2		116.0	109.9		127.9	125.9	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 4 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN											
AC-7 / 82				AC-4 / 80				AC-5 / 81			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	73.0	105.2	82.7	80.0	110.2	87.7	90.0	116.2	97.1		
2	146.0	103.8	90.4	160.0	107.8	94.4	180.0	115.3	104.4		
3	219.0	102.0	91.1	240.0	109.3	100.7	270.0	118.1	109.5		
4	292.0	101.4	94.8	320.0	108.0	101.4	360.0	117.3	112.5		
5	365.0	99.3	94.5	400.0	106.0	101.2	450.0	117.9	114.7		
6	438.0	95.3	90.5	480.0	104.4	101.2	540.0	116.7	113.5		
7	511.0	92.2	89.0	560.0	104.0	100.8	630.0	118.1	116.2		
8	584.0	91.4	89.5	640.0	102.8	100.9	720.0	116.1	115.3		
9	657.0	88.0	86.1	720.0	99.7	98.9	810.0	116.0	115.2		
10	730.0	83.5	82.7	800.0	98.6	97.8	900.0	116.2	116.2		
11	803.0	81.3	80.5	880.0	97.4	96.6	990.0	114.7	114.7		
12	876.0	79.6	78.8	960.0	93.0	93.0	1080.0	114.4	114.4		
13	949.0	75.4	75.4	1040.0	92.9	92.9	1170.0	114.2	114.8		
14	1022.0	73.8	73.8	1120.0	91.6	91.6	1260.0	111.0	111.6		
15	1095.0	69.9	69.9	1200.0	88.1	88.7	1350.0	111.8	112.4		
16	1168.0	67.0	67.6	1280.0	83.8	84.4	1440.0	110.7	111.7		
17	1241.0	0.0	0.0	1360.0	84.8	85.4	1530.0	108.1	109.1		
18	1314.0	0.0	0.0	1440.0	81.0	82.0	1620.0	106.8	107.8		
19	1387.0	0.0	0.0	1520.0	78.2	79.2	1710.0	107.1	108.1		
20	1460.0	0.0	0.0	1600.0	76.3	77.3	1800.0	105.7	106.9		
21	1533.0	0.0	0.0	1680.0	74.2	75.2	1890.0	102.3	103.5		
22	1606.0	0.0	0.0	1760.0	70.4	71.4	1980.0	102.1	103.3		
23	1679.0	0.0	0.0	1840.0	0.0	0.0	2070.0	100.9	102.1		
24	1752.0	0.0	0.0	1920.0	0.0	0.0	2160.0	98.8	100.0		
25	1825.0	0.0	0.0	2000.0	0.0	0.0	2250.0	98.7	100.0		
26	1898.0	0.0	0.0	2080.0	0.0	0.0	2340.0	97.5	98.8		
27	1971.0	0.0	0.0	2160.0	0.0	0.0	2430.0	97.3	98.6		
28	2044.0	0.0	0.0	2240.0	0.0	0.0	2520.0	97.2	98.5		
29	2117.0	0.0	0.0	2320.0	0.0	0.0	2610.0	97.4	98.7		
30	2190.0	0.0	0.0	2400.0	0.0	0.0	2700.0	96.2	97.5		
31	2263.0	0.0	0.0	2480.0	0.0	0.0	2790.0	95.6	96.9		
32	2336.0	0.0	0.0	2560.0	0.0	0.0	2880.0	95.8	97.0		
33	2409.0	0.0	0.0	2640.0	0.0	0.0	2970.0	94.1	95.3		
34	2482.0	0.0	0.0	2720.0	0.0	0.0	3060.0	92.5	93.7		
35	2555.0	0.0	0.0	2800.0	0.0	0.0	3150.0	94.4	95.6		
36	2628.0	0.0	0.0	2880.0	0.0	0.0	3240.0	92.5	93.7		
37	2701.0	0.0	0.0	2960.0	0.0	0.0	3330.0	90.8	92.0		
38	2774.0	0.0	0.0	3040.0	0.0	0.0	3420.0	91.8	93.0		
39	2847.0	0.0	0.0	3120.0	0.0	0.0	3510.0	90.0	91.2		
40	2920.0	0.0	0.0	3200.0	0.0	0.0	3600.0	88.9	89.9		
OASPL		110.1	100.8		116.6	110.2		128.1	126.1		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 5 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN											
AC-7 / 82				AC-4 / 80				AC-5 / 81			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	73.0	102.7	80.2	80.0	110.1	87.6	90.0	117.7	98.6		
2	146.0	103.5	90.1	160.0	106.2	92.8	180.0	112.8	101.9		
3	219.0	98.8	87.9	240.0	106.7	98.1	270.0	117.5	108.9		
4	292.0	100.1	93.5	320.0	109.9	103.3	360.0	120.1	115.3		
5	365.0	100.4	95.6	400.0	105.7	100.9	450.0	112.8	109.6		
6	438.0	90.2	85.4	480.0	99.9	96.7	540.0	116.0	112.8		
7	511.0	90.2	87.0	560.0	102.5	99.3	630.0	118.1	116.2		
8	584.0	89.0	87.1	640.0	101.9	100.0	720.0	113.3	112.5		
9	657.0	86.6	84.7	720.0	96.5	95.7	810.0	114.6	113.8		
10	730.0	80.5	79.7	800.0	95.8	95.0	900.0	112.9	112.9		
11	803.0	79.3	78.5	880.0	92.6	91.8	990.0	113.5	113.5		
12	876.0	75.3	74.5	960.0	93.3	93.3	1080.0	111.1	111.1		
13	949.0	0.0	0.0	1040.0	91.0	91.0	1170.0	111.0	111.6		
14	1022.0	0.0	0.0	1120.0	85.1	85.1	1260.0	110.6	111.2		
15	1095.0	0.0	0.0	1200.0	85.3	85.9	1350.0	108.1	108.7		
16	1168.0	0.0	0.0	1280.0	86.4	87.0	1440.0	106.7	107.7		
17	1241.0	0.0	0.0	1360.0	76.7	77.3	1530.0	105.6	106.6		
18	1314.0	0.0	0.0	1440.0	0.0	0.0	1620.0	103.6	104.6		
19	1387.0	0.0	0.0	1520.0	0.0	0.0	1710.0	102.0	103.0		
20	1460.0	0.0	0.0	1600.0	0.0	0.0	1800.0	101.7	102.9		
21	1533.0	0.0	0.0	1680.0	0.0	0.0	1890.0	98.7	99.9		
22	1606.0	0.0	0.0	1760.0	0.0	0.0	1980.0	98.3	99.5		
23	1679.0	0.0	0.0	1840.0	0.0	0.0	2070.0	98.6	99.8		
24	1752.0	0.0	0.0	1920.0	0.0	0.0	2160.0	95.3	96.5		
25	1825.0	0.0	0.0	2000.0	0.0	0.0	2250.0	94.4	95.7		
26	1898.0	0.0	0.0	2080.0	0.0	0.0	2340.0	94.9	96.2		
27	1971.0	0.0	0.0	2160.0	0.0	0.0	2430.0	91.9	93.2		
28	2044.0	0.0	0.0	2240.0	0.0	0.0	2520.0	92.7	94.0		
29	2117.0	0.0	0.0	2320.0	0.0	0.0	2610.0	89.5	90.8		
30	2190.0	0.0	0.0	2400.0	0.0	0.0	2700.0	91.1	92.4		
31	2263.0	0.0	0.0	2480.0	0.0	0.0	2790.0	91.4	92.7		
32	2336.0	0.0	0.0	2560.0	0.0	0.0	2880.0	87.2	88.4		
33	2409.0	0.0	0.0	2640.0	0.0	0.0	2970.0	89.6	90.8		
34	2482.0	0.0	0.0	2720.0	0.0	0.0	3060.0	90.0	91.2		
35	2555.0	0.0	0.0	2800.0	0.0	0.0	3150.0	85.3	86.5		
36	2628.0	0.0	0.0	2880.0	0.0	0.0	3240.0	87.0	88.2		
37	2701.0	0.0	0.0	2960.0	0.0	0.0	3330.0	86.1	87.3		
38	2774.0	0.0	0.0	3040.0	0.0	0.0	3420.0	81.3	82.5		
39	2847.0	0.0	0.0	3120.0	0.0	0.0	3510.0	83.4	84.6		
40	2920.0	0.0	0.0	3200.0	0.0	0.0	3600.0	80.3	81.3		
OASPL		108.6	99.7	115.8		109.0	127.1		124.3		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 6 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN											
AC-7 / 82				AC-4 / 80			AC-5 / 81				
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	73.0	101.3	78.8	80.0	112.5	90.0	90.0	120.3	101.2		
2	146.0	100.9	87.5	160.0	112.2	98.8	180.0	112.3	101.4		
3	219.0	0.0	0.0	240.0	104.2	95.6	270.0	116.9	108.3		
4	292.0	0.0	0.0	320.0	108.0	101.4	360.0	119.2	114.4		
5	365.0	0.0	0.0	400.0	99.8	95.0	450.0	107.8	104.6		
6	438.0	0.0	0.0	480.0	99.0	95.8	540.0	116.6	113.4		
7	511.0	0.0	0.0	560.0	100.1	96.9	630.0	113.4	111.5		
8	584.0	0.0	0.0	640.0	96.8	94.9	720.0	106.4	105.6		
9	657.0	0.0	0.0	720.0	79.4	78.6	810.0	111.8	111.0		
10	730.0	0.0	0.0	800.0	0.0	0.0	900.0	109.7	109.7		
11	803.0	0.0	0.0	880.0	0.0	0.0	990.0	96.6	96.6		
12	876.0	0.0	0.0	960.0	0.0	0.0	1080.0	106.7	106.7		
13	949.0	0.0	0.0	1040.0	0.0	0.0	1170.0	102.6	103.2		
14	1022.0	0.0	0.0	1120.0	0.0	0.0	1260.0	97.2	97.8		
15	1095.0	0.0	0.0	1200.0	0.0	0.0	1350.0	98.5	99.1		
16	1168.0	0.0	0.0	1280.0	0.0	0.0	1440.0	96.0	97.0		
17	1241.0	0.0	0.0	1360.0	0.0	0.0	1530.0	93.2	94.2		
18	1314.0	0.0	0.0	1440.0	0.0	0.0	1620.0	90.6	91.6		
19	1387.0	0.0	0.0	1520.0	0.0	0.0	1710.0	95.6	96.6		
20	1460.0	0.0	0.0	1600.0	0.0	0.0	1800.0	79.3	80.5		
21	1533.0	0.0	0.0	1680.0	0.0	0.0	1890.0	87.6	88.8		
22	1606.0	0.0	0.0	1760.0	0.0	0.0	1980.0	83.5	84.7		
23	1679.0	0.0	0.0	1840.0	0.0	0.0	2070.0	76.7	77.9		
24	1752.0	0.0	0.0	1920.0	0.0	0.0	2160.0	0.0	0.0		
25	1825.0	0.0	0.0	2000.0	0.0	0.0	2250.0	0.0	0.0		
26	1898.0	0.0	0.0	2080.0	0.0	0.0	2340.0	0.0	0.0		
27	1971.0	0.0	0.0	2160.0	0.0	0.0	2430.0	0.0	0.0		
28	2044.0	0.0	0.0	2240.0	0.0	0.0	2520.0	0.0	0.0		
29	2117.0	0.0	0.0	2320.0	0.0	0.0	2610.0	0.0	0.0		
30	2190.0	0.0	0.0	2400.0	0.0	0.0	2700.0	0.0	0.0		
31	2263.0	0.0	0.0	2480.0	0.0	0.0	2790.0	0.0	0.0		
32	2336.0	0.0	0.0	2560.0	0.0	0.0	2880.0	0.0	0.0		
33	2409.0	0.0	0.0	2640.0	0.0	0.0	2970.0	0.0	0.0		
34	2482.0	0.0	0.0	2720.0	0.0	0.0	3060.0	0.0	0.0		
35	2555.0	0.0	0.0	2800.0	0.0	0.0	3150.0	0.0	0.0		
36	2628.0	0.0	0.0	2880.0	0.0	0.0	3240.0	0.0	0.0		
37	2701.0	0.0	0.0	2960.0	0.0	0.0	3330.0	0.0	0.0		
38	2774.0	0.0	0.0	3040.0	0.0	0.0	3420.0	0.0	0.0		
39	2847.0	0.0	0.0	3120.0	0.0	0.0	3510.0	0.0	0.0		
40	2920.0	0.0	0.0	3200.0	0.0	0.0	3600.0	0.0	0.0		
OASPL		104.1	88.0			116.7	106.1			125.7	120.5

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 7 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN										
AC-7 / 82				AC-4 / 80			AC-5 / 81			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	73.0	100.9	78.4	80.0	105.2	82.7	90.0	118.1	99.0	
2	146.0	0.0	0.0	160.0	0.0	0.0	180.0	0.0	0.0	
3	219.0	0.0	0.0	240.0	0.0	0.0	270.0	0.0	0.0	
4	292.0	0.0	0.0	320.0	0.0	0.0	360.0	0.0	0.0	
5	365.0	0.0	0.0	400.0	0.0	0.0	450.0	0.0	0.0	
6	438.0	0.0	0.0	480.0	0.0	0.0	540.0	0.0	0.0	
7	511.0	0.0	0.0	560.0	0.0	0.0	630.0	0.0	0.0	
8	584.0	0.0	0.0	640.0	0.0	0.0	720.0	0.0	0.0	
9	657.0	0.0	0.0	720.0	0.0	0.0	810.0	0.0	0.0	
10	730.0	0.0	0.0	800.0	0.0	0.0	900.0	0.0	0.0	
11	803.0	0.0	0.0	880.0	0.0	0.0	990.0	0.0	0.0	
12	876.0	0.0	0.0	960.0	0.0	0.0	1080.0	0.0	0.0	
13	949.0	0.0	0.0	1040.0	0.0	0.0	1170.0	0.0	0.0	
14	1022.0	0.0	0.0	1120.0	0.0	0.0	1260.0	0.0	0.0	
15	1095.0	0.0	0.0	1200.0	0.0	0.0	1350.0	0.0	0.0	
16	1168.0	0.0	0.0	1280.0	0.0	0.0	1440.0	0.0	0.0	
17	1241.0	0.0	0.0	1360.0	0.0	0.0	1530.0	0.0	0.0	
18	1314.0	0.0	0.0	1440.0	0.0	0.0	1620.0	0.0	0.0	
19	1387.0	0.0	0.0	1520.0	0.0	0.0	1710.0	0.0	0.0	
20	1460.0	0.0	0.0	1600.0	0.0	0.0	1800.0	0.0	0.0	
21	1533.0	0.0	0.0	1680.0	0.0	0.0	1890.0	0.0	0.0	
22	1606.0	0.0	0.0	1760.0	0.0	0.0	1980.0	0.0	0.0	
23	1679.0	0.0	0.0	1840.0	0.0	0.0	2070.0	0.0	0.0	
24	1752.0	0.0	0.0	1920.0	0.0	0.0	2160.0	0.0	0.0	
25	1825.0	0.0	0.0	2000.0	0.0	0.0	2250.0	0.0	0.0	
26	1898.0	0.0	0.0	2080.0	0.0	0.0	2340.0	0.0	0.0	
27	1971.0	0.0	0.0	2160.0	0.0	0.0	2430.0	0.0	0.0	
28	2044.0	0.0	0.0	2240.0	0.0	0.0	2520.0	0.0	0.0	
29	2117.0	0.0	0.0	2320.0	0.0	0.0	2610.0	0.0	0.0	
30	2190.0	0.0	0.0	2400.0	0.0	0.0	2700.0	0.0	0.0	
31	2263.0	0.0	0.0	2480.0	0.0	0.0	2790.0	0.0	0.0	
32	2336.0	0.0	0.0	2560.0	0.0	0.0	2880.0	0.0	0.0	
33	2409.0	0.0	0.0	2640.0	0.0	0.0	2970.0	0.0	0.0	
34	2482.0	0.0	0.0	2720.0	0.0	0.0	3060.0	0.0	0.0	
35	2555.0	0.0	0.0	2800.0	0.0	0.0	3150.0	0.0	0.0	
36	2628.0	0.0	0.0	2880.0	0.0	0.0	3240.0	0.0	0.0	
37	2701.0	0.0	0.0	2960.0	0.0	0.0	3330.0	0.0	0.0	
38	2774.0	0.0	0.0	3040.0	0.0	0.0	3420.0	0.0	0.0	
39	2847.0	0.0	0.0	3120.0	0.0	0.0	3510.0	0.0	0.0	
40	2920.0	0.0	0.0	3200.0	0.0	0.0	3600.0	0.0	0.0	
OASPL		100.9	78.4	105.2		82.7	118.1		99.0	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 9 (PITCH ANGLE: 21.6 DEG)

DATA-POINT / RUN										
AC-7 / 82				AC-4 / 80				AC-5 / 81		
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	73.0	105.0	82.5	80.0	110.0	87.5	90.0	113.6	94.5	
2	146.0	101.0	87.6	160.0	106.6	93.2	180.0	111.3	100.4	
3	219.0	96.0	85.1	240.0	106.1	97.5	270.0	118.6	110.0	
4	292.0	101.5	94.9	320.0	108.5	101.9	360.0	116.5	111.7	
5	365.0	97.4	92.6	400.0	103.3	98.5	450.0	115.1	111.9	
6	438.0	92.5	87.7	480.0	103.7	100.5	540.0	117.1	113.9	
7	511.0	91.9	88.7	560.0	103.5	100.3	630.0	115.0	113.1	
8	584.0	89.4	87.5	640.0	100.0	98.1	720.0	114.7	113.9	
9	657.0	87.1	85.2	720.0	98.6	97.8	810.0	116.2	115.4	
10	730.0	82.7	81.9	800.0	97.8	97.0	900.0	112.8	112.8	
11	803.0	82.3	81.5	880.0	93.9	93.1	990.0	112.7	112.7	
12	876.0	78.3	77.5	960.0	92.6	92.6	1080.0	113.4	113.4	
13	949.0	73.0	73.0	1040.0	93.6	93.6	1170.0	112.2	112.8	
14	1022.0	0.0	0.0	1120.0	89.3	89.3	1260.0	109.0	109.6	
15	1095.0	0.0	0.0	1200.0	86.0	86.6	1350.0	110.8	111.4	
16	1168.0	0.0	0.0	1280.0	84.7	85.3	1440.0	109.0	110.0	
17	1241.0	0.0	0.0	1360.0	84.5	85.1	1530.0	106.4	107.4	
18	1314.0	0.0	0.0	1440.0	77.3	78.3	1620.0	106.6	107.6	
19	1387.0	0.0	0.0	1520.0	0.0	0.0	1710.0	104.5	105.5	
20	1460.0	0.0	0.0	1600.0	0.0	0.0	1800.0	103.2	104.4	
21	1533.0	0.0	0.0	1680.0	0.0	0.0	1890.0	103.4	104.6	
22	1606.0	0.0	0.0	1760.0	0.0	0.0	1980.0	99.3	100.5	
23	1679.0	0.0	0.0	1840.0	0.0	0.0	2070.0	101.0	102.2	
24	1752.0	0.0	0.0	1920.0	0.0	0.0	2160.0	101.3	102.5	
25	1825.0	0.0	0.0	2000.0	0.0	0.0	2250.0	92.9	94.2	
26	1898.0	0.0	0.0	2080.0	0.0	0.0	2340.0	99.4	100.7	
27	1971.0	0.0	0.0	2160.0	0.0	0.0	2430.0	97.8	99.1	
28	2044.0	0.0	0.0	2240.0	0.0	0.0	2520.0	95.0	96.3	
29	2117.0	0.0	0.0	2320.0	0.0	0.0	2610.0	96.9	98.2	
30	2190.0	0.0	0.0	2400.0	0.0	0.0	2700.0	95.1	96.4	
31	2263.0	0.0	0.0	2480.0	0.0	0.0	2790.0	95.2	96.5	
32	2336.0	0.0	0.0	2560.0	0.0	0.0	2880.0	96.5	97.7	
33	2409.0	0.0	0.0	2640.0	0.0	0.0	2970.0	94.1	95.3	
34	2482.0	0.0	0.0	2720.0	0.0	0.0	3060.0	94.5	95.7	
35	2555.0	0.0	0.0	2800.0	0.0	0.0	3150.0	94.6	95.8	
36	2628.0	0.0	0.0	2880.0	0.0	0.0	3240.0	94.3	95.5	
37	2701.0	0.0	0.0	2960.0	0.0	0.0	3330.0	88.7	89.9	
38	2774.0	0.0	0.0	3040.0	0.0	0.0	3420.0	93.1	94.3	
39	2847.0	0.0	0.0	3120.0	0.0	0.0	3510.0	91.9	93.1	
40	2920.0	0.0	0.0	3200.0	0.0	0.0	3600.0	86.1	87.1	
OASPL		108.6	99.3		115.5	108.9		126.7	124.6	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 1 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-1 / 77				BC-2 / 76			BC-3 / 75			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	100.3	74.1	70.0	104.1	77.9	80.0	109.2	86.7	
2	120.0	91.8	75.7	140.0	96.7	80.6	160.0	106.4	93.0	
3	180.0	79.9	69.0	210.0	95.9	85.0	240.0	103.5	94.9	
4	240.0	78.0	69.4	280.0	90.7	82.1	320.0	99.7	93.1	
5	300.0	69.7	63.1	350.0	84.5	77.9	400.0	99.3	94.5	
6	360.0	63.0	58.2	420.0	79.2	74.4	480.0	92.4	89.2	
7	420.0	61.7	56.9	490.0	69.8	66.6	560.0	89.5	86.3	
8	480.0	49.9	46.7	560.0	68.3	65.1	640.0	84.9	83.0	
9	540.0	0.0	0.0	630.0	52.6	50.7	720.0	82.8	82.0	
10	600.0	0.0	0.0	700.0	0.0	0.0	800.0	83.2	82.4	
11	660.0	0.0	0.0	770.0	0.0	0.0	880.0	74.6	73.8	
12	720.0	0.0	0.0	840.0	0.0	0.0	960.0	76.8	76.8	
13	780.0	0.0	0.0	910.0	0.0	0.0	1040.0	70.9	70.9	
14	840.0	0.0	0.0	980.0	0.0	0.0	1120.0	61.5	61.5	
15	900.0	0.0	0.0	1050.0	0.0	0.0	1200.0	44.6	45.2	
16	960.0	0.0	0.0	1120.0	0.0	0.0	1280.0	0.0	0.0	
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1360.0	0.0	0.0	
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1440.0	0.0	0.0	
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1520.0	0.0	0.0	
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1600.0	0.0	0.0	
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1680.0	0.0	0.0	
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1760.0	0.0	0.0	
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0	
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0	
25	1500.0	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0	
26	1560.0	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0	
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0	
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0	
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0	
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0	
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0	
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0	
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0	
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0	
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0	
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0	
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0	
38	2280.0	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0	
39	2340.0	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0	
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0	
OASPL		101.0	79.2	105.5		88.8	112.3		100.9	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 2 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN											
BC-1 / 77				BC-2 / 76				BC-3 / 75			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	101.4	75.2	70.0	106.4	80.2	80.0	108.5	86.0		
2	120.0	97.5	81.4	140.0	104.7	88.6	160.0	110.9	97.5		
3	180.0	92.7	81.8	210.0	100.0	89.1	240.0	107.8	99.2		
4	240.0	84.2	75.6	280.0	95.8	87.2	320.0	105.4	98.8		
5	300.0	78.3	71.7	350.0	92.2	85.6	400.0	103.1	98.3		
6	360.0	73.1	68.3	420.0	87.9	83.1	480.0	104.2	101.0		
7	420.0	63.9	59.1	490.0	85.2	82.0	560.0	101.4	98.2		
8	480.0	60.9	57.7	560.0	80.5	77.3	640.0	97.7	95.8		
9	540.0	50.3	47.1	630.0	73.4	71.5	720.0	93.6	92.8		
10	600.0	0.0	0.0	700.0	70.0	68.1	800.0	92.9	92.1		
11	660.0	0.0	0.0	770.0	64.1	63.3	880.0	92.0	91.2		
12	720.0	0.0	0.0	840.0	62.1	61.3	960.0	87.2	87.2		
13	780.0	0.0	0.0	910.0	59.5	59.5	1040.0	84.7	84.7		
14	840.0	0.0	0.0	980.0	49.5	49.5	1120.0	80.7	80.7		
15	900.0	0.0	0.0	1050.0	0.0	0.0	1200.0	80.1	80.7		
16	960.0	0.0	0.0	1120.0	0.0	0.0	1280.0	76.9	77.5		
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1360.0	74.3	74.9		
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1440.0	68.4	69.4		
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1520.0	67.9	68.9		
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1600.0	63.8	64.8		
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1680.0	61.8	62.8		
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1760.0	56.2	57.2		
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0		
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0		
25	1500.0	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0		
26	1560.0	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0		
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0		
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0		
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0		
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0		
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0		
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0		
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0		
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0		
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0		
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0		
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0		
38	2280.0	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0		
39	2340.0	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0		
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0		
OASPL		103.4	85.8			109.5	94.7			115.6	107.6

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 3 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN											
BC-1 / 77				BC-2 / 76				BC-3 / 75			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	103.3	77.1	70.0	107.7	81.5	80.0	111.4	88.9		
2	120.0	98.5	82.4	140.0	105.6	89.5	160.0	111.4	98.0		
3	180.0	93.2	82.3	210.0	101.4	90.5	240.0	110.5	101.9		
4	240.0	86.6	78.0	280.0	97.7	89.1	320.0	106.8	100.2		
5	300.0	78.0	71.4	350.0	93.1	86.5	400.0	108.1	103.3		
6	360.0	78.3	73.5	420.0	92.2	87.4	480.0	105.8	102.6		
7	420.0	72.0	67.2	490.0	87.1	83.9	560.0	101.5	98.3		
8	480.0	61.6	58.4	560.0	81.1	77.9	640.0	102.2	100.3		
9	540.0	59.4	56.2	630.0	79.5	77.6	720.0	99.9	99.1		
10	600.0	51.2	49.3	700.0	75.6	73.7	800.0	97.3	96.5		
11	660.0	45.5	43.6	770.0	71.4	70.6	880.0	94.1	93.3		
12	720.0	0.0	0.0	840.0	67.4	66.6	960.0	93.5	93.5		
13	780.0	0.0	0.0	910.0	64.5	64.5	1040.0	90.6	90.6		
14	840.0	0.0	0.0	980.0	57.2	57.2	1120.0	87.1	87.1		
15	900.0	0.0	0.0	1050.0	0.0	0.0	1200.0	84.6	85.2		
16	960.0	0.0	0.0	1120.0	0.0	0.0	1280.0	84.4	85.0		
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1360.0	79.7	80.3		
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1440.0	75.9	76.9		
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1520.0	74.3	75.3		
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1600.0	71.7	72.7		
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1680.0	67.5	68.5		
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1760.0	63.6	64.6		
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1840.0	58.7	59.9		
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0		
25	1500.0	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0		
26	1560.0	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0		
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0		
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0		
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0		
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0		
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0		
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0		
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0		
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0		
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0		
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0		
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0		
38	2280.0	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0		
39	2340.0	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0		
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0		
OASPL		104.9	87.0	110.8		96.4	117.7		110.4		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 4 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-1 / 77				BC-2 / 76				BC-3 / 75		
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	104.9	78.7	70.0	109.6	83.4	80.0	114.8	92.3	
2	120.0	99.3	83.2	140.0	106.4	90.3	160.0	111.4	98.0	
3	180.0	93.3	82.4	210.0	101.1	90.2	240.0	112.0	103.4	
4	240.0	87.2	78.6	280.0	100.4	91.8	320.0	109.6	103.0	
5	300.0	81.4	74.8	350.0	94.3	87.7	400.0	107.2	102.4	
6	360.0	75.1	70.3	420.0	91.5	86.7	480.0	105.6	102.4	
7	420.0	71.9	67.1	490.0	88.1	84.9	560.0	104.7	101.5	
8	480.0	63.6	60.4	560.0	85.2	82.0	640.0	103.1	101.2	
9	540.0	54.2	51.0	630.0	80.9	79.0	720.0	99.5	98.7	
10	600.0	0.0	0.0	700.0	75.5	73.6	800.0	98.6	97.8	
11	660.0	0.0	0.0	770.0	72.6	71.8	880.0	96.5	95.7	
12	720.0	0.0	0.0	840.0	70.0	69.2	960.0	92.3	92.3	
13	780.0	0.0	0.0	910.0	63.4	63.4	1040.0	91.2	91.2	
14	840.0	0.0	0.0	980.0	57.6	57.6	1120.0	89.7	89.7	
15	900.0	0.0	0.0	1050.0	56.7	56.7	1200.0	86.6	87.2	
16	960.0	0.0	0.0	1120.0	0.0	0.0	1280.0	81.7	82.3	
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1360.0	82.3	82.9	
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1440.0	79.5	80.5	
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1520.0	75.4	76.4	
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1600.0	72.4	73.4	
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1680.0	69.9	70.9	
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1760.0	68.2	69.2	
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1840.0	64.4	65.6	
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	63.2	64.4	
25	1500.0	0.0	0.0	1750.0	0.0	0.0	2000.0	54.2	55.4	
26	1560.0	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0	
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0	
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0	
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0	
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0	
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0	
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0	
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0	
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0	
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0	
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0	
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0	
38	2280.0	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0	
39	2340.0	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0	
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0	
OASPL		106.2	87.6		112.1	97.4		119.3	111.3	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 5 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN											
BC-1 / 77				BC-2 / 76				BC-3 / 75			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	106.0	79.8	70.0	111.4	85.2	80.0	117.4	94.9		
2	120.0	100.4	84.3	140.0	107.3	91.2	160.0	112.6	99.2		
3	180.0	93.0	82.1	210.0	99.6	88.7	240.0	110.4	101.8		
4	240.0	83.5	74.9	280.0	99.0	90.4	320.0	113.4	106.8		
5	300.0	83.5	76.9	350.0	98.2	91.6	400.0	109.2	104.4		
6	360.0	79.4	74.6	420.0	91.0	86.2	480.0	102.1	98.9		
7	420.0	68.4	63.6	490.0	84.7	81.5	560.0	104.0	100.8		
8	480.0	61.4	58.2	560.0	84.5	81.3	640.0	102.9	101.0		
9	540.0	58.3	55.1	630.0	81.1	79.2	720.0	99.1	98.3		
10	600.0	47.3	45.4	700.0	76.3	74.4	800.0	95.9	95.1		
11	660.0	0.0	0.0	770.0	70.4	69.6	880.0	93.3	92.5		
12	720.0	0.0	0.0	840.0	64.8	64.0	960.0	93.3	93.3		
13	780.0	0.0	0.0	910.0	62.8	62.8	1040.0	90.4	90.4		
14	840.0	0.0	0.0	980.0	0.0	0.0	1120.0	85.7	85.7		
15	900.0	0.0	0.0	1050.0	0.0	0.0	1200.0	84.1	84.7		
16	960.0	0.0	0.0	1120.0	0.0	0.0	1280.0	84.3	84.9		
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1360.0	77.2	77.8		
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1440.0	75.6	76.6		
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1520.0	75.3	76.3		
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1600.0	70.1	71.1		
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1680.0	66.3	67.3		
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1760.0	66.7	67.7		
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1840.0	62.9	64.1		
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	58.9	60.1		
25	1500.0	0.0	0.0	1750.0	0.0	0.0	2000.0	58.7	59.9		
26	1560.0	0.0	0.0	1820.0	0.0	0.0	2080.0	56.0	57.2		
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0		
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0		
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0		
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0		
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0		
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0		
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0		
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0		
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0		
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0		
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0		
38	2280.0	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0		
39	2340.0	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0		
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0		
OASPL		107.3	88.0	113.3		97.6	120.9		111.8		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 6 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-1 / 77				BC-2 / 76			BC-3 / 75			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	63.9	37.7	70.0	59.7	33.5	80.0	58.3	35.8	
2	120.0	56.9	40.8	140.0	0.0	0.0	160.0	51.4	38.0	
3	180.0	56.5	45.6	210.0	0.0	0.0	240.0	49.4	40.8	
4	240.0	51.5	42.9	280.0	0.0	0.0	320.0	0.0	0.0	
5	300.0	50.9	44.3	350.0	0.0	0.0	400.0	0.0	0.0	
6	360.0	47.6	42.8	420.0	0.0	0.0	480.0	0.0	0.0	
7	420.0	41.0	36.2	490.0	0.0	0.0	560.0	0.0	0.0	
8	480.0	0.0	0.0	560.0	0.0	0.0	640.0	0.0	0.0	
9	540.0	0.0	0.0	630.0	0.0	0.0	720.0	0.0	0.0	
10	600.0	0.0	0.0	700.0	0.0	0.0	800.0	0.0	0.0	
11	660.0	0.0	0.0	770.0	0.0	0.0	880.0	0.0	0.0	
12	720.0	0.0	0.0	840.0	0.0	0.0	960.0	0.0	0.0	
13	780.0	0.0	0.0	910.0	0.0	0.0	1040.0	0.0	0.0	
14	840.0	0.0	0.0	980.0	0.0	0.0	1120.0	0.0	0.0	
15	900.0	0.0	0.0	1050.0	0.0	0.0	1200.0	0.0	0.0	
16	960.0	0.0	0.0	1120.0	0.0	0.0	1280.0	0.0	0.0	
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1360.0	0.0	0.0	
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1440.0	0.0	0.0	
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1520.0	0.0	0.0	
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1600.0	0.0	0.0	
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1680.0	0.0	0.0	
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1760.0	0.0	0.0	
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0	
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0	
25	1500.0	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0	
26	1560.0	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0	
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0	
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0	
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0	
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0	
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0	
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0	
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0	
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0	
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0	
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0	
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0	
38	2280.0	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0	
39	2340.0	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0	
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0	
OASPL		65.7	50.9		59.7	33.5		59.5	43.4	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 7 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-1 / 77				BC-2 / 76			BC-3 / 75			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	103.9	77.7	70.0	109.9	83.7	80.0	115.6	93.1	
2	120.0	93.0	76.9	140.0	98.8	82.7	160.0	106.9	93.5	
3	180.0	83.3	72.4	210.0	92.7	81.8	240.0	104.5	95.9	
4	240.0	74.0	65.4	280.0	78.8	70.2	320.0	96.3	89.7	
5	300.0	62.0	55.4	350.0	0.0	0.0	400.0	89.8	85.0	
6	360.0	65.1	60.3	420.0	0.0	0.0	480.0	83.0	79.8	
7	420.0	54.8	50.0	490.0	0.0	0.0	560.0	83.0	79.8	
8	480.0	0.0	0.0	560.0	0.0	0.0	640.0	76.6	74.7	
9	540.0	0.0	0.0	630.0	0.0	0.0	720.0	72.4	71.6	
10	600.0	0.0	0.0	700.0	0.0	0.0	800.0	71.7	70.9	
11	660.0	0.0	0.0	770.0	0.0	0.0	880.0	71.8	71.0	
12	720.0	0.0	0.0	840.0	0.0	0.0	960.0	60.9	60.9	
13	780.0	0.0	0.0	910.0	0.0	0.0	1040.0	0.0	0.0	
14	840.0	0.0	0.0	980.0	0.0	0.0	1120.0	0.0	0.0	
15	900.0	0.0	0.0	1050.0	0.0	0.0	1200.0	0.0	0.0	
16	960.0	0.0	0.0	1120.0	0.0	0.0	1280.0	0.0	0.0	
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1360.0	0.0	0.0	
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1440.0	0.0	0.0	
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1520.0	0.0	0.0	
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1600.0	0.0	0.0	
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1680.0	0.0	0.0	
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1760.0	0.0	0.0	
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0	
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0	
25	1500.0	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0	
26	1560.0	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0	
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0	
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0	
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0	
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0	
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0	
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0	
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0	
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0	
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0	
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0	
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0	
38	2280.0	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0	
39	2340.0	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0	
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0	
OASPL		104.3	81.1	110.3		87.7	116.5		99.9	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 9 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-1 / 77				BC-2 / 76				BC-3 / 75		
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	106.3	80.1	70.0	109.0	82.8	80.0	114.4	91.9	
2	120.0	99.3	83.2	140.0	106.6	90.5	160.0	108.5	95.1	
3	180.0	92.5	81.6	210.0	97.1	86.2	240.0	109.1	100.5	
4	240.0	82.2	73.6	280.0	101.2	92.6	320.0	110.6	104.0	
5	300.0	83.4	76.8	350.0	96.1	89.5	400.0	105.7	100.9	
6	360.0	77.5	72.7	420.0	87.5	82.7	480.0	104.0	100.8	
7	420.0	70.0	65.2	490.0	86.3	83.1	560.0	104.7	101.5	
8	480.0	61.8	58.6	560.0	85.1	81.9	640.0	100.0	98.1	
9	540.0	0.0	0.0	630.0	80.0	78.1	720.0	97.3	96.5	
10	600.0	0.0	0.0	700.0	74.9	73.0	800.0	97.9	97.1	
11	660.0	0.0	0.0	770.0	74.5	73.7	880.0	94.8	94.0	
12	720.0	0.0	0.0	840.0	69.5	68.7	960.0	88.9	88.9	
13	780.0	0.0	0.0	910.0	63.8	63.8	1040.0	91.5	91.5	
14	840.0	0.0	0.0	980.0	57.7	57.7	1120.0	86.5	86.5	
15	900.0	0.0	0.0	1050.0	0.0	0.0	1200.0	86.5	87.1	
16	960.0	0.0	0.0	1120.0	0.0	0.0	1280.0	81.1	81.7	
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1360.0	79.0	79.6	
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1440.0	79.1	80.1	
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1520.0	75.1	76.1	
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1600.0	71.3	72.3	
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1680.0	70.8	71.8	
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1760.0	68.2	69.2	
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1840.0	63.0	64.2	
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	57.7	58.9	
25	1500.0	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0	
26	1560.0	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0	
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0	
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0	
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0	
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0	
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0	
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0	
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0	
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0	
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0	
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0	
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0	
38	2280.0	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0	
39	2340.0	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0	
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0	
OASPL		107.3	87.4			111.7	97.1			118.2 110.1

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 1 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN											
BC-7 / 74				BC-4 / 73				BC-5 / 72			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	50.7	85.9	55.7	70.0	102.2	76.0	80.0	108.2	85.7		
2	101.4	81.1	62.0	140.0	94.9	78.8	160.0	106.2	92.8		
3	152.1	70.8	57.4	210.0	95.4	84.5	240.0	103.2	94.6		
4	202.8	0.0	0.0	280.0	89.0	80.4	320.0	99.5	92.9		
5	253.5	0.0	0.0	350.0	84.9	78.3	400.0	99.2	94.4		
6	304.2	0.0	0.0	420.0	78.2	73.4	480.0	92.8	89.6		
7	354.9	0.0	0.0	490.0	72.6	69.4	560.0	89.5	86.3		
8	405.6	0.0	0.0	560.0	65.9	62.7	640.0	84.9	83.0		
9	456.3	0.0	0.0	630.0	56.4	54.5	720.0	84.1	83.3		
10	507.0	0.0	0.0	700.0	0.0	0.0	800.0	82.8	82.0		
11	557.7	0.0	0.0	770.0	0.0	0.0	880.0	75.5	74.7		
12	608.4	0.0	0.0	840.0	0.0	0.0	960.0	75.9	75.9		
13	659.1	0.0	0.0	910.0	0.0	0.0	1040.0	70.0	70.0		
14	709.8	0.0	0.0	980.0	0.0	0.0	1120.0	55.0	55.0		
15	760.5	0.0	0.0	1050.0	0.0	0.0	1200.0	0.0	0.0		
16	811.2	0.0	0.0	1120.0	0.0	0.0	1280.0	0.0	0.0		
17	861.9	0.0	0.0	1190.0	0.0	0.0	1360.0	0.0	0.0		
18	912.6	0.0	0.0	1260.0	0.0	0.0	1440.0	0.0	0.0		
19	963.3	0.0	0.0	1330.0	0.0	0.0	1520.0	0.0	0.0		
20	1014.0	0.0	0.0	1400.0	0.0	0.0	1600.0	0.0	0.0		
21	1064.7	0.0	0.0	1470.0	0.0	0.0	1680.0	0.0	0.0		
22	1115.4	0.0	0.0	1540.0	0.0	0.0	1760.0	0.0	0.0		
23	1166.1	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0		
24	1216.8	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0		
25	1267.5	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0		
26	1318.2	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0		
27	1368.9	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0		
28	1419.6	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0		
29	1470.3	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0		
30	1521.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0		
31	1571.7	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0		
32	1622.4	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0		
33	1673.1	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0		
34	1723.8	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0		
35	1774.5	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0		
36	1825.2	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0		
37	1875.9	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0		
38	1926.6	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0		
39	1977.3	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0		
40	2028.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0		
OASPL		87.3	64.0			103.9	87.8			111.8	100.7

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 2 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN											
BC-7 / 74				BC-4 / 73				BC-5 / 72			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	50.7	91.0	60.8	70.0	105.7	79.5	80.0	108.3	85.8		
2	101.4	85.8	66.7	140.0	103.5	87.4	160.0	110.1	96.7		
3	152.1	75.1	61.7	210.0	99.9	89.0	240.0	107.8	99.2		
4	202.8	70.0	59.1	280.0	96.5	87.9	320.0	105.3	98.7		
5	253.5	53.6	45.0	350.0	91.7	85.1	400.0	102.9	98.1		
6	304.2	0.0	0.0	420.0	88.3	83.5	480.0	104.0	100.8		
7	354.9	0.0	0.0	490.0	84.7	81.5	560.0	100.8	97.6		
8	405.6	0.0	0.0	560.0	79.3	76.1	640.0	97.6	95.7		
9	456.3	0.0	0.0	630.0	74.1	72.2	720.0	93.4	92.6		
10	507.0	0.0	0.0	700.0	68.5	66.6	800.0	92.8	92.0		
11	557.7	0.0	0.0	770.0	67.9	67.1	880.0	92.0	91.2		
12	608.4	0.0	0.0	840.0	64.5	63.7	960.0	87.2	87.2		
13	659.1	0.0	0.0	910.0	56.9	56.9	1040.0	84.5	84.5		
14	709.8	0.0	0.0	980.0	0.0	0.0	1120.0	81.1	81.1		
15	760.5	0.0	0.0	1050.0	0.0	0.0	1200.0	80.3	80.9		
16	811.2	0.0	0.0	1120.0	0.0	0.0	1280.0	77.8	78.4		
17	861.9	0.0	0.0	1190.0	0.0	0.0	1360.0	73.7	74.3		
18	912.6	0.0	0.0	1260.0	0.0	0.0	1440.0	69.8	70.8		
19	963.3	0.0	0.0	1330.0	0.0	0.0	1520.0	68.0	69.0		
20	1014.0	0.0	0.0	1400.0	0.0	0.0	1600.0	64.2	65.2		
21	1064.7	0.0	0.0	1470.0	0.0	0.0	1680.0	61.4	62.4		
22	1115.4	0.0	0.0	1540.0	0.0	0.0	1760.0	0.0	0.0		
23	1166.1	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0		
24	1216.8	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0		
25	1267.5	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0		
26	1318.2	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0		
27	1368.9	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0		
28	1419.6	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0		
29	1470.3	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0		
30	1521.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0		
31	1571.7	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0		
32	1622.4	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0		
33	1673.1	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0		
34	1723.8	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0		
35	1774.5	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0		
36	1825.2	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0		
37	1875.9	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0		
38	1926.6	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0		
39	1977.3	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0		
40	2028.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0		
OASPL		92.2	69.1			108.8	94.5			115.2	107.4

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 3 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN											
BC-7 / 74				BC-4 / 73				BC-5 / 72			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	50.7	90.9	60.7	70.0	77.3	51.1	80.0	71.0	48.5		
2	101.4	86.3	67.2	140.0	74.9	58.8	160.0	70.3	56.9		
3	152.1	75.5	62.1	210.0	70.5	59.6	240.0	69.6	61.0		
4	202.8	68.7	57.8	280.0	66.9	58.3	320.0	66.3	59.7		
5	253.5	62.3	53.7	350.0	63.4	56.8	400.0	67.6	62.8		
6	304.2	0.0	0.0	420.0	62.0	57.2	480.0	65.2	62.0		
7	354.9	0.0	0.0	490.0	56.7	53.5	560.0	61.4	58.2		
8	405.6	0.0	0.0	560.0	51.8	48.6	640.0	61.8	59.9		
9	456.3	0.0	0.0	630.0	49.8	47.9	720.0	59.7	58.9		
10	507.0	0.0	0.0	700.0	46.7	44.8	800.0	56.9	56.1		
11	557.7	0.0	0.0	770.0	42.6	41.8	880.0	54.2	53.4		
12	608.4	0.0	0.0	840.0	35.7	34.9	960.0	53.6	53.6		
13	659.1	0.0	0.0	910.0	34.6	34.6	1040.0	50.7	50.7		
14	709.8	0.0	0.0	980.0	31.1	31.1	1120.0	47.0	47.0		
15	760.5	0.0	0.0	1050.0	0.0	0.0	1200.0	44.6	45.2		
16	811.2	0.0	0.0	1120.0	0.0	0.0	1280.0	44.5	45.1		
17	861.9	0.0	0.0	1190.0	0.0	0.0	1360.0	39.9	40.5		
18	912.6	0.0	0.0	1260.0	0.0	0.0	1440.0	36.4	37.4		
19	963.3	0.0	0.0	1330.0	0.0	0.0	1520.0	34.8	35.8		
20	1014.0	0.0	0.0	1400.0	0.0	0.0	1600.0	31.8	32.8		
21	1064.7	0.0	0.0	1470.0	0.0	0.0	1680.0	28.4	29.4		
22	1115.4	0.0	0.0	1540.0	0.0	0.0	1760.0	23.3	24.3		
23	1166.1	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0		
24	1216.8	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0		
25	1267.5	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0		
26	1318.2	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0		
27	1368.9	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0		
28	1419.6	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0		
29	1470.3	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0		
30	1521.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0		
31	1571.7	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0		
32	1622.4	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0		
33	1673.1	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0		
34	1723.8	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0		
35	1774.5	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0		
36	1825.2	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0		
37	1875.9	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0		
38	1926.6	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0		
39	1977.3	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0		
40	2028.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0		
OASPL		92.3	69.5		80.2	65.9		77.1	69.9		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 4 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-7 / 74				BC-4 / 73			BC-5 / 72			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	50.7	91.4	61.2	70.0	109.0	82.8	80.0	114.3	91.8	
2	101.4	84.3	65.2	140.0	105.6	89.5	160.0	110.4	97.0	
3	152.1	74.9	61.5	210.0	99.8	88.9	240.0	111.1	102.5	
4	202.8	66.2	55.3	280.0	98.8	90.2	320.0	108.8	102.2	
5	253.5	0.0	0.0	350.0	94.8	88.2	400.0	106.8	102.0	
6	304.2	0.0	0.0	420.0	91.8	87.0	480.0	105.0	101.8	
7	354.9	0.0	0.0	490.0	87.3	84.1	560.0	104.2	101.0	
8	405.6	0.0	0.0	560.0	85.0	81.8	640.0	102.9	101.0	
9	456.3	0.0	0.0	630.0	81.8	79.9	720.0	99.3	98.5	
10	507.0	0.0	0.0	700.0	74.9	73.0	800.0	98.5	97.7	
11	557.7	0.0	0.0	770.0	71.3	70.5	880.0	96.4	95.6	
12	608.4	0.0	0.0	840.0	70.7	69.9	960.0	92.2	92.2	
13	659.1	0.0	0.0	910.0	64.9	64.9	1040.0	91.3	91.3	
14	709.8	0.0	0.0	980.0	58.5	58.5	1120.0	89.8	89.8	
15	760.5	0.0	0.0	1050.0	0.0	0.0	1200.0	86.4	87.0	
16	811.2	0.0	0.0	1120.0	0.0	0.0	1280.0	81.6	82.2	
17	861.9	0.0	0.0	1190.0	0.0	0.0	1360.0	82.6	83.2	
18	912.6	0.0	0.0	1260.0	0.0	0.0	1440.0	79.7	80.7	
19	963.3	0.0	0.0	1330.0	0.0	0.0	1520.0	75.9	76.9	
20	1014.0	0.0	0.0	1400.0	0.0	0.0	1600.0	72.1	73.1	
21	1064.7	0.0	0.0	1470.0	0.0	0.0	1680.0	70.5	71.5	
22	1115.4	0.0	0.0	1540.0	0.0	0.0	1760.0	68.2	69.2	
23	1166.1	0.0	0.0	1610.0	0.0	0.0	1840.0	63.7	64.9	
24	1216.8	0.0	0.0	1680.0	0.0	0.0	1920.0	62.8	64.0	
25	1267.5	0.0	0.0	1750.0	0.0	0.0	2000.0	54.5	55.7	
26	1318.2	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0	
27	1368.9	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0	
28	1419.6	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0	
29	1470.3	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0	
30	1521.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0	
31	1571.7	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0	
32	1622.4	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0	
33	1673.1	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0	
34	1723.8	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0	
35	1774.5	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0	
36	1825.2	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0	
37	1875.9	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0	
38	1926.6	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0	
39	1977.3	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0	
40	2028.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0	
OASPL		92.2	68.0		111.4	96.6		118.7	110.8	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 5 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-7 / 74				BC-4 / 73			BC-5 / 72			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	50.7	90.0	59.8	70.0	110.2	84.0	80.0	116.7	94.2	
2	101.4	82.0	62.9	140.0	106.5	90.4	160.0	111.9	98.5	
3	152.1	73.1	59.7	210.0	97.9	87.0	240.0	109.6	101.0	
4	202.8	0.0	0.0	280.0	98.1	89.5	320.0	112.8	106.2	
5	253.5	0.0	0.0	350.0	97.2	90.6	400.0	108.3	103.5	
6	304.2	0.0	0.0	420.0	89.7	84.9	480.0	101.6	98.4	
7	354.9	0.0	0.0	490.0	84.4	81.2	560.0	103.5	100.3	
8	405.6	0.0	0.0	560.0	83.7	80.5	640.0	102.4	100.5	
9	456.3	0.0	0.0	630.0	81.3	79.4	720.0	98.7	97.9	
10	507.0	0.0	0.0	700.0	74.7	72.8	800.0	95.6	94.8	
11	557.7	0.0	0.0	770.0	69.1	68.3	880.0	93.1	92.3	
12	608.4	0.0	0.0	840.0	66.1	65.3	960.0	93.2	93.2	
13	659.1	0.0	0.0	910.0	62.2	62.2	1040.0	90.0	90.0	
14	709.8	0.0	0.0	980.0	0.0	0.0	1120.0	85.6	85.6	
15	760.5	0.0	0.0	1050.0	0.0	0.0	1200.0	84.0	84.6	
16	811.2	0.0	0.0	1120.0	0.0	0.0	1280.0	84.3	84.9	
17	861.9	0.0	0.0	1190.0	0.0	0.0	1360.0	77.0	77.6	
18	912.6	0.0	0.0	1260.0	0.0	0.0	1440.0	75.3	76.3	
19	963.3	0.0	0.0	1330.0	0.0	0.0	1520.0	75.1	76.1	
20	1014.0	0.0	0.0	1400.0	0.0	0.0	1600.0	70.4	71.4	
21	1064.7	0.0	0.0	1470.0	0.0	0.0	1680.0	67.4	68.4	
22	1115.4	0.0	0.0	1540.0	0.0	0.0	1760.0	66.4	67.4	
23	1166.1	0.0	0.0	1610.0	0.0	0.0	1840.0	61.6	62.8	
24	1216.8	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0	
25	1267.5	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0	
26	1318.2	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0	
27	1368.9	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0	
28	1419.6	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0	
29	1470.3	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0	
30	1521.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0	
31	1571.7	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0	
32	1622.4	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0	
33	1673.1	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0	
34	1723.8	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0	
35	1774.5	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0	
36	1825.2	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0	
37	1875.9	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0	
38	1926.6	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0	
39	1977.3	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0	
40	2028.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0	
OASPL		90.7	65.9		112.2	96.6		120.2	111.2	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 6 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-7 / 74				BC-4 / 73			BC-5 / 72			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	50.7	41.4	11.2	70.0	56.5	30.3	80.0	56.4	33.9	
2	101.4	0.0	0.0	140.0	53.4	37.3	160.0	50.7	37.3	
3	152.1	0.0	0.0	210.0	45.0	34.1	240.0	49.1	40.5	
4	202.8	0.0	0.0	280.0	0.0	0.0	320.0	0.0	0.0	
5	253.5	0.0	0.0	350.0	0.0	0.0	400.0	0.0	0.0	
6	304.2	0.0	0.0	420.0	0.0	0.0	480.0	0.0	0.0	
7	354.9	0.0	0.0	490.0	0.0	0.0	560.0	0.0	0.0	
8	405.6	0.0	0.0	560.0	0.0	0.0	640.0	0.0	0.0	
9	456.3	0.0	0.0	630.0	0.0	0.0	720.0	0.0	0.0	
10	507.0	0.0	0.0	700.0	0.0	0.0	800.0	0.0	0.0	
11	557.7	0.0	0.0	770.0	0.0	0.0	880.0	0.0	0.0	
12	608.4	0.0	0.0	840.0	0.0	0.0	960.0	0.0	0.0	
13	659.1	0.0	0.0	910.0	0.0	0.0	1040.0	0.0	0.0	
14	709.8	0.0	0.0	980.0	0.0	0.0	1120.0	0.0	0.0	
15	760.5	0.0	0.0	1050.0	0.0	0.0	1200.0	0.0	0.0	
16	811.2	0.0	0.0	1120.0	0.0	0.0	1280.0	0.0	0.0	
17	861.9	0.0	0.0	1190.0	0.0	0.0	1360.0	0.0	0.0	
18	912.6	0.0	0.0	1260.0	0.0	0.0	1440.0	0.0	0.0	
19	963.3	0.0	0.0	1330.0	0.0	0.0	1520.0	0.0	0.0	
20	1014.0	0.0	0.0	1400.0	0.0	0.0	1600.0	0.0	0.0	
21	1064.7	0.0	0.0	1470.0	0.0	0.0	1680.0	0.0	0.0	
22	1115.4	0.0	0.0	1540.0	0.0	0.0	1760.0	0.0	0.0	
23	1166.1	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0	
24	1216.8	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0	
25	1267.5	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0	
26	1318.2	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0	
27	1368.9	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0	
28	1419.6	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0	
29	1470.3	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0	
30	1521.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0	
31	1571.7	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0	
32	1622.4	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0	
33	1673.1	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0	
34	1723.8	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0	
35	1774.5	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0	
36	1825.2	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0	
37	1875.9	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0	
38	1926.6	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0	
39	1977.3	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0	
40	2028.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0	
OASPL		41.4	11.2		58.4	39.5		58.1	42.8	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 7 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-7 / 74				BC-4 / 73			BC-5 / 72			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	50.7	83.9	53.7	70.0	107.1	80.9	80.0	114.0	91.5	
2	101.4	53.3	34.2	140.0	96.7	80.6	160.0	104.9	91.5	
3	152.1	0.0	0.0	210.0	88.6	77.7	240.0	104.2	95.6	
4	202.8	0.0	0.0	280.0	70.9	62.3	320.0	94.2	87.6	
5	253.5	0.0	0.0	350.0	0.0	0.0	400.0	88.9	84.1	
6	304.2	0.0	0.0	420.0	0.0	0.0	480.0	82.4	79.2	
7	354.9	0.0	0.0	490.0	0.0	0.0	560.0	81.0	77.8	
8	405.6	0.0	0.0	560.0	0.0	0.0	640.0	74.8	72.9	
9	456.3	0.0	0.0	630.0	0.0	0.0	720.0	73.1	72.3	
10	507.0	0.0	0.0	700.0	0.0	0.0	800.0	69.6	68.8	
11	557.7	0.0	0.0	770.0	0.0	0.0	880.0	69.1	68.3	
12	608.4	0.0	0.0	840.0	0.0	0.0	960.0	0.0	0.0	
13	659.1	0.0	0.0	910.0	0.0	0.0	1040.0	0.0	0.0	
14	709.8	0.0	0.0	980.0	0.0	0.0	1120.0	0.0	0.0	
15	760.5	0.0	0.0	1050.0	0.0	0.0	1200.0	0.0	0.0	
16	811.2	0.0	0.0	1120.0	0.0	0.0	1280.0	0.0	0.0	
17	861.9	0.0	0.0	1190.0	0.0	0.0	1360.0	0.0	0.0	
18	912.6	0.0	0.0	1260.0	0.0	0.0	1440.0	0.0	0.0	
19	963.3	0.0	0.0	1330.0	0.0	0.0	1520.0	0.0	0.0	
20	1014.0	0.0	0.0	1400.0	0.0	0.0	1600.0	0.0	0.0	
21	1064.7	0.0	0.0	1470.0	0.0	0.0	1680.0	0.0	0.0	
22	1115.4	0.0	0.0	1540.0	0.0	0.0	1760.0	0.0	0.0	
23	1166.1	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0	
24	1216.8	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0	
25	1267.5	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0	
26	1318.2	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0	
27	1368.9	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0	
28	1419.6	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0	
29	1470.3	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0	
30	1521.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0	
31	1571.7	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0	
32	1622.4	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0	
33	1673.1	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0	
34	1723.8	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0	
35	1774.5	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0	
36	1825.2	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0	
37	1875.9	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0	
38	1926.6	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0	
39	1977.3	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0	
40	2028.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0	
OASPL		83.9	53.7		107.5	84.7		114.9	98.8	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 9 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-7 / 74				BC-4 / 73				BC-5 / 72		
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	50.7	91.4	61.2	70.0	106.3	80.1	80.0	113.7	91.2	
2	101.4	83.7	64.6	140.0	105.2	89.1	160.0	108.1	94.7	
3	152.1	0.0	0.0	210.0	96.3	85.4	240.0	108.7	100.1	
4	202.8	0.0	0.0	280.0	100.0	91.4	320.0	109.8	103.2	
5	253.5	0.0	0.0	350.0	95.3	88.7	400.0	105.1	100.3	
6	304.2	0.0	0.0	420.0	86.8	82.0	480.0	103.7	100.5	
7	354.9	0.0	0.0	490.0	84.9	81.7	560.0	104.2	101.0	
8	405.6	0.0	0.0	560.0	84.8	81.6	640.0	99.6	97.7	
9	456.3	0.0	0.0	630.0	79.7	77.8	720.0	97.1	96.3	
10	507.0	0.0	0.0	700.0	75.2	73.3	800.0	98.0	97.2	
11	557.7	0.0	0.0	770.0	74.8	74.0	880.0	94.5	93.7	
12	608.4	0.0	0.0	840.0	71.1	70.3	960.0	89.7	89.7	
13	659.1	0.0	0.0	910.0	64.7	64.7	1040.0	91.8	91.8	
14	709.8	0.0	0.0	980.0	0.0	0.0	1120.0	87.2	87.2	
15	760.5	0.0	0.0	1050.0	0.0	0.0	1200.0	86.7	87.3	
16	811.2	0.0	0.0	1120.0	0.0	0.0	1280.0	81.3	81.9	
17	861.9	0.0	0.0	1190.0	0.0	0.0	1360.0	79.8	80.4	
18	912.6	0.0	0.0	1260.0	0.0	0.0	1440.0	79.9	80.9	
19	963.3	0.0	0.0	1330.0	0.0	0.0	1520.0	76.0	77.0	
20	1014.0	0.0	0.0	1400.0	0.0	0.0	1600.0	71.9	72.9	
21	1064.7	0.0	0.0	1470.0	0.0	0.0	1680.0	70.9	71.9	
22	1115.4	0.0	0.0	1540.0	0.0	0.0	1760.0	70.2	71.2	
23	1166.1	0.0	0.0	1610.0	0.0	0.0	1840.0	63.2	64.4	
24	1216.8	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0	
25	1267.5	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0	
26	1318.2	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0	
27	1368.9	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0	
28	1419.6	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0	
29	1470.3	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0	
30	1521.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0	
31	1571.7	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0	
32	1622.4	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0	
33	1673.1	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0	
34	1723.8	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0	
35	1774.5	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0	
36	1825.2	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0	
37	1875.9	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0	
38	1926.6	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0	
39	1977.3	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0	
40	2028.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0	
OASPL		92.1	66.2		109.8	96.0		117.6	109.6	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 1 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-6 / 70			BC-61 / 71							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	90.0	113.0	93.9	93.3	113.5	94.4				
2	180.0	111.7	100.8	186.6	114.4	103.5				
3	270.0	112.0	103.4	279.9	113.5	104.9				
4	360.0	110.5	105.7	373.2	115.5	110.7				
5	450.0	108.5	105.3	466.5	112.1	108.9				
6	540.0	104.7	101.5	559.8	109.5	106.3				
7	630.0	106.3	104.4	653.1	110.2	108.3				
8	720.0	106.9	106.1	746.4	111.0	110.2				
9	810.0	101.5	100.7	839.7	108.6	107.8				
10	900.0	102.1	102.1	933.0	107.1	107.1				
11	990.0	101.5	101.5	1026.3	105.4	105.4				
12	1080.0	92.4	92.4	1119.6	103.7	103.7				
13	1170.0	94.2	94.8	1212.9	97.7	98.3				
14	1260.0	93.8	94.4	1306.2	96.8	97.4				
15	1350.0	89.6	90.2	1399.5	98.1	98.7				
16	1440.0	86.9	87.9	1492.8	98.2	99.2				
17	1530.0	84.3	85.3	1586.1	94.7	95.7				
18	1620.0	84.7	85.7	1679.4	90.8	91.8				
19	1710.0	83.1	84.1	1772.7	91.2	92.2				
20	1800.0	83.9	85.1	1866.0	87.1	88.3				
21	1890.0	81.0	82.2	1959.3	79.8	81.0				
22	1980.0	71.1	72.3	2052.6	87.1	88.3				
23	2070.0	0.0	0.0	2145.9	86.5	87.7				
24	2160.0	0.0	0.0	2239.2	85.3	86.6				
25	2250.0	0.0	0.0	2332.5	83.3	84.6				
26	2340.0	0.0	0.0	2425.8	74.8	76.1				
27	2430.0	0.0	0.0	2519.1	71.2	72.5				
28	2520.0	0.0	0.0	2612.4	0.0	0.0				
29	2610.0	0.0	0.0	2705.7	0.0	0.0				
30	2700.0	0.0	0.0	2799.0	0.0	0.0				
31	2790.0	0.0	0.0	2892.3	0.0	0.0				
32	2880.0	0.0	0.0	2985.6	0.0	0.0				
33	2970.0	0.0	0.0	3078.9	0.0	0.0				
34	3060.0	0.0	0.0	3172.2	0.0	0.0				
35	3150.0	0.0	0.0	3265.5	0.0	0.0				
36	3240.0	0.0	0.0	3358.8	0.0	0.0				
37	3330.0	0.0	0.0	3452.1	0.0	0.0				
38	3420.0	0.0	0.0	3545.4	0.0	0.0				
39	3510.0	0.0	0.0	3638.7	0.0	0.0				
40	3600.0	0.0	0.0	3732.0	0.0	0.0				
OASPL		119.4	113.8		122.5	118.3				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 2 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-6 / 70				BC-61 / 71						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	90.0	114.6	95.5	93.3	114.7	95.6				
2	180.0	118.3	107.4	186.6	124.1	113.2				
3	270.0	114.5	105.9	279.9	116.3	107.7				
4	360.0	115.9	111.1	373.2	119.2	114.4				
5	450.0	116.3	113.1	466.5	121.1	117.9				
6	540.0	117.1	113.9	559.8	119.7	116.5				
7	630.0	115.3	113.4	653.1	119.6	117.7				
8	720.0	112.6	111.8	746.4	117.7	116.9				
9	810.0	113.5	112.7	839.7	119.7	118.9				
10	900.0	114.0	114.0	933.0	118.6	118.6				
11	990.0	111.3	111.3	1026.3	117.0	117.0				
12	1080.0	109.9	109.9	1119.6	116.2	116.2				
13	1170.0	109.7	110.3	1212.9	115.6	116.2				
14	1260.0	108.8	109.4	1306.2	115.5	116.1				
15	1350.0	106.9	107.5	1399.5	112.4	113.0				
16	1440.0	105.6	106.6	1492.8	111.8	112.8				
17	1530.0	104.3	105.3	1586.1	111.4	112.4				
18	1620.0	103.4	104.4	1679.4	109.0	110.0				
19	1710.0	101.7	102.7	1772.7	108.0	109.0				
20	1800.0	98.8	100.0	1866.0	105.7	106.9				
21	1890.0	97.4	98.6	1959.3	107.2	108.4				
22	1980.0	98.2	99.4	2052.6	105.9	106.1				
23	2070.0	95.1	96.3	2145.9	103.6	104.8				
24	2160.0	93.1	94.3	2239.2	102.9	104.2				
25	2250.0	92.1	93.4	2332.5	103.9	105.2				
26	2340.0	91.9	93.2	2425.8	102.6	103.9				
27	2430.0	90.0	91.3	2519.1	101.2	102.5				
28	2520.0	88.0	89.3	2612.4	103.9	105.2				
29	2610.0	90.1	91.4	2705.7	102.4	103.7				
30	2700.0	87.9	89.2	2799.0	100.4	101.7				
31	2790.0	85.0	86.3	2892.3	99.9	101.1				
32	2880.0	85.3	86.5	2985.6	101.1	102.3				
33	2970.0	85.1	86.3	3078.9	101.6	102.8				
34	3060.0	85.9	87.1	3172.2	97.9	99.1				
35	3150.0	81.2	82.4	3265.5	98.3	99.5				
36	3240.0	80.5	81.7	3358.8	99.3	100.5				
37	3330.0	81.6	82.8	3452.1	98.1	99.3				
38	3420.0	80.3	81.5	3545.4	96.3	97.5				
39	3510.0	76.1	77.3	3638.7	96.3	97.3				
40	3600.0	76.5	77.5	3732.0	97.1	98.1				
OASPL		126.2	123.3		130.8	128.5				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 3 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-6 / 70			BC-61 / 71							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	90.0	115.2	96.1	93.3	117.6	98.5				
2	180.0	116.2	105.3	186.6	119.9	109.0				
3	270.0	116.3	107.7	279.9	119.5	110.9				
4	360.0	117.4	112.6	373.2	121.8	117.0				
5	450.0	117.9	114.7	466.5	121.7	118.5				
6	540.0	115.7	112.5	559.8	119.4	116.2				
7	630.0	117.1	115.2	653.1	121.3	119.4				
8	720.0	117.4	116.6	746.4	121.7	120.9				
9	810.0	116.5	115.7	839.7	120.7	119.9				
10	900.0	116.0	116.0	933.0	120.4	120.4				
11	990.0	115.4	115.4	1026.3	119.9	119.9				
12	1080.0	113.3	113.3	1119.6	117.9	117.9				
13	1170.0	111.9	112.5	1212.9	118.8	119.4				
14	1260.0	113.0	113.6	1306.2	118.6	119.2				
15	1350.0	110.9	111.5	1399.5	116.4	117.0				
16	1440.0	108.9	109.9	1492.8	115.4	116.4				
17	1530.0	108.6	109.6	1586.1	115.8	116.8				
18	1620.0	108.8	109.8	1679.4	113.7	114.7				
19	1710.0	106.1	107.1	1772.7	110.1	111.1				
20	1800.0	103.4	104.6	1866.0	109.2	110.4				
21	1890.0	103.8	105.0	1959.3	107.3	108.5				
22	1980.0	102.4	103.6	2052.6	105.5	106.7				
23	2070.0	100.4	101.6	2145.9	104.4	105.6				
24	2160.0	99.2	100.4	2239.2	108.1	109.4				
25	2250.0	99.2	100.5	2332.5	107.6	108.9				
26	2340.0	96.2	97.5	2425.8	107.9	109.2				
27	2430.0	95.9	97.2	2519.1	109.6	110.9				
28	2520.0	96.4	97.7	2612.4	110.0	111.3				
29	2610.0	96.0	97.3	2705.7	108.5	109.8				
30	2700.0	94.4	95.7	2799.0	108.2	109.5				
31	2790.0	94.5	95.8	2892.3	108.2	109.4				
32	2880.0	94.7	95.9	2985.6	107.2	108.4				
33	2970.0	94.1	95.3	3078.9	105.0	106.2				
34	3060.0	92.9	94.1	3172.2	102.0	103.2				
35	3150.0	90.6	91.8	3265.5	104.1	105.3				
36	3240.0	91.2	92.4	3358.8	105.0	106.2				
37	3330.0	91.9	93.1	3452.1	104.0	105.2				
38	3420.0	90.2	91.4	3545.4	102.1	103.3				
39	3510.0	86.8	88.0	3638.7	104.4	105.4				
40	3600.0	88.7	89.7	3732.0	104.3	105.3				
OASPL		127.8	125.9		132.3	131.0				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 4 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-6 / 70			BC-61 / 71							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	90.0	115.9	96.8	93.3	118.0	98.9				
2	180.0	114.8	103.9	186.6	118.2	107.3				
3	270.0	117.8	109.2	279.9	122.5	113.9				
4	360.0	116.9	112.1	373.2	121.4	116.6				
5	450.0	117.4	114.2	466.5	121.7	118.5				
6	540.0	116.7	113.5	559.8	121.7	118.5				
7	630.0	117.7	115.8	653.1	121.7	119.8				
8	720.0	116.1	115.3	746.4	120.8	120.0				
9	810.0	116.0	115.2	839.7	121.2	120.4				
10	900.0	115.9	115.9	933.0	120.6	120.6				
11	990.0	114.6	114.6	1026.3	120.2	120.2				
12	1080.0	115.2	115.2	1119.6	121.2	121.2				
13	1170.0	114.1	114.7	1212.9	117.1	117.7				
14	1260.0	110.5	111.1	1306.2	117.1	117.7				
15	1350.0	111.9	112.5	1399.5	116.5	117.1				
16	1440.0	110.7	111.7	1492.8	114.7	115.7				
17	1530.0	108.1	109.1	1586.1	112.9	113.9				
18	1620.0	107.0	108.0	1679.4	112.1	113.1				
19	1710.0	107.4	108.4	1772.7	111.2	112.2				
20	1800.0	105.3	106.5	1866.0	108.6	109.8				
21	1890.0	101.7	102.9	1959.3	107.8	109.0				
22	1980.0	102.2	103.4	2052.6	108.3	109.5				
23	2070.0	100.7	101.9	2145.9	106.9	108.1				
24	2160.0	98.2	99.4	2239.2	107.8	109.1				
25	2250.0	98.4	99.7	2332.5	108.0	109.3				
26	2340.0	97.0	98.3	2425.8	107.8	109.1				
27	2430.0	96.8	98.1	2519.1	109.0	110.3				
28	2520.0	97.3	98.6	2612.4	109.1	110.4				
29	2610.0	96.8	98.1	2705.7	108.0	109.3				
30	2700.0	95.5	96.8	2799.0	108.7	110.0				
31	2790.0	95.8	97.1	2892.3	108.0	109.2				
32	2880.0	95.5	96.7	2985.6	106.3	107.5				
33	2970.0	93.9	95.1	3078.9	106.1	107.3				
34	3060.0	92.9	94.1	3172.2	106.7	107.9				
35	3150.0	94.3	95.5	3265.5	105.0	106.2				
36	3240.0	92.5	93.7	3358.8	104.6	105.8				
37	3330.0	91.0	92.2	3452.1	104.2	105.4				
38	3420.0	91.8	93.0	3545.4	103.7	104.9				
39	3510.0	90.7	91.9	3638.7	102.6	103.6				
40	3600.0	89.2	90.2	3732.0	100.4	101.4				
OASPL		127.9	126.0		132.6	131.1				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 5 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-6 / 70				BC-61 / 71						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	90.0	116.9	97.8	93.3	119.4	100.3				
2	180.0	112.1	101.2	186.6	118.6	107.7				
3	270.0	116.9	108.3	279.9	120.5	111.9				
4	360.0	118.9	114.1	373.2	122.9	118.1				
5	450.0	112.8	109.6	466.5	117.9	114.7				
6	540.0	115.9	112.7	559.8	121.8	118.6				
7	630.0	117.6	115.7	653.1	121.8	119.9				
8	720.0	113.5	112.7	746.4	118.3	117.5				
9	810.0	114.5	113.7	839.7	118.7	117.9				
10	900.0	113.1	113.1	933.0	118.7	118.7				
11	990.0	113.6	113.6	1026.3	118.9	118.9				
12	1080.0	111.5	111.5	1119.6	114.5	114.5				
13	1170.0	111.2	111.8	1212.9	117.9	118.5				
14	1260.0	110.8	111.4	1306.2	115.7	116.3				
15	1350.0	108.5	109.1	1399.5	111.9	112.5				
16	1440.0	107.2	108.2	1492.8	112.7	113.7				
17	1530.0	105.7	106.7	1586.1	110.5	111.5				
18	1620.0	103.9	104.9	1679.4	106.7	107.7				
19	1710.0	102.7	103.7	1772.7	108.1	109.1				
20	1800.0	101.5	102.7	1866.0	105.9	107.1				
21	1890.0	99.5	100.7	1959.3	104.4	105.6				
22	1980.0	98.9	100.1	2052.6	105.3	106.5				
23	2070.0	97.9	99.1	2145.9	104.3	105.5				
24	2160.0	95.4	96.6	2239.2	103.1	104.4				
25	2250.0	94.2	95.5	2332.5	104.2	105.5				
26	2340.0	94.3	95.6	2425.8	104.4	105.7				
27	2430.0	92.8	94.1	2519.1	103.2	104.5				
28	2520.0	91.8	93.1	2612.4	101.1	102.4				
29	2610.0	89.6	90.9	2705.7	105.6	106.9				
30	2700.0	91.6	92.9	2799.0	102.3	103.6				
31	2790.0	91.1	92.4	2892.3	100.6	101.8				
32	2880.0	88.0	89.2	2985.6	104.9	106.1				
33	2970.0	90.4	91.6	3078.9	100.4	101.6				
34	3060.0	90.2	91.4	3172.2	100.4	101.6				
35	3150.0	86.8	88.0	3265.5	101.6	102.8				
36	3240.0	87.4	88.6	3358.8	96.7	97.9				
37	3330.0	86.3	87.5	3452.1	98.7	99.9				
38	3420.0	83.8	85.0	3545.4	97.3	98.5				
39	3510.0	83.1	84.3	3638.7	93.1	94.1				
40	3600.0	81.4	82.4	3732.0	96.5	97.5				
OASPL		126.7	124.2		131.3	129.1				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 6 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-6 / 70				BC-61 / 71						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	90.0	51.2	32.1	93.3	56.7	37.6				
2	180.0	0.0	0.0	186.6	56.0	45.1				
3	270.0	0.0	0.0	279.9	57.7	49.1				
4	360.0	0.0	0.0	373.2	57.3	52.5				
5	450.0	0.0	0.0	466.5	52.8	49.6				
6	540.0	0.0	0.0	559.8	53.9	50.7				
7	630.0	0.0	0.0	653.1	55.7	53.8				
8	720.0	0.0	0.0	746.4	32.2	31.4				
9	810.0	0.0	0.0	839.7	0.0	0.0				
10	900.0	0.0	0.0	933.0	0.0	0.0				
11	990.0	0.0	0.0	1026.3	0.0	0.0				
12	1080.0	0.0	0.0	1119.6	0.0	0.0				
13	1170.0	0.0	0.0	1212.9	0.0	0.0				
14	1260.0	0.0	0.0	1306.2	0.0	0.0				
15	1350.0	0.0	0.0	1399.5	0.0	0.0				
16	1440.0	0.0	0.0	1492.8	0.0	0.0				
17	1530.0	0.0	0.0	1586.1	0.0	0.0				
18	1620.0	0.0	0.0	1679.4	0.0	0.0				
19	1710.0	0.0	0.0	1772.7	0.0	0.0				
20	1800.0	0.0	0.0	1866.0	0.0	0.0				
21	1890.0	0.0	0.0	1959.3	0.0	0.0				
22	1980.0	0.0	0.0	2052.6	0.0	0.0				
23	2070.0	0.0	0.0	2145.9	0.0	0.0				
24	2160.0	0.0	0.0	2239.2	0.0	0.0				
25	2250.0	0.0	0.0	2332.5	0.0	0.0				
26	2340.0	0.0	0.0	2425.8	0.0	0.0				
27	2430.0	0.0	0.0	2519.1	0.0	0.0				
28	2520.0	0.0	0.0	2612.4	0.0	0.0				
29	2610.0	0.0	0.0	2705.7	0.0	0.0				
30	2700.0	0.0	0.0	2799.0	0.0	0.0				
31	2790.0	0.0	0.0	2892.3	0.0	0.0				
32	2880.0	0.0	0.0	2985.6	0.0	0.0				
33	2970.0	0.0	0.0	3078.9	0.0	0.0				
34	3060.0	0.0	0.0	3172.2	0.0	0.0				
35	3150.0	0.0	0.0	3265.5	0.0	0.0				
36	3240.0	0.0	0.0	3358.8	0.0	0.0				
37	3330.0	0.0	0.0	3452.1	0.0	0.0				
38	3420.0	0.0	0.0	3545.4	0.0	0.0				
39	3510.0	0.0	0.0	3638.7	0.0	0.0				
40	3600.0	0.0	0.0	3732.0	0.0	0.0				
OASPL		51.2	32.1		64.5	58.7				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 7 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN											
BC-6 / 70				BC-61 / 71							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	90.0	115.8	96.7	93.3	115.0	95.9					
2	180.0	0.0	0.0	186.6	0.0	0.0					
3	270.0	0.0	0.0	279.9	0.0	0.0					
4	360.0	0.0	0.0	373.2	0.0	0.0					
5	450.0	0.0	0.0	466.5	0.0	0.0					
6	540.0	0.0	0.0	559.8	0.0	0.0					
7	630.0	0.0	0.0	653.1	0.0	0.0					
8	720.0	0.0	0.0	746.4	0.0	0.0					
9	810.0	0.0	0.0	839.7	0.0	0.0					
10	900.0	0.0	0.0	933.0	0.0	0.0					
11	990.0	0.0	0.0	1026.3	0.0	0.0					
12	1080.0	0.0	0.0	1119.6	0.0	0.0					
13	1170.0	0.0	0.0	1212.9	0.0	0.0					
14	1260.0	0.0	0.0	1306.2	0.0	0.0					
15	1350.0	0.0	0.0	1399.5	0.0	0.0					
16	1440.0	0.0	0.0	1492.8	0.0	0.0					
17	1530.0	0.0	0.0	1586.1	0.0	0.0					
18	1620.0	0.0	0.0	1679.4	0.0	0.0					
19	1710.0	0.0	0.0	1772.7	0.0	0.0					
20	1800.0	0.0	0.0	1866.0	0.0	0.0					
21	1890.0	0.0	0.0	1959.3	0.0	0.0					
22	1980.0	0.0	0.0	2052.6	0.0	0.0					
23	2070.0	0.0	0.0	2145.9	0.0	0.0					
24	2160.0	0.0	0.0	2239.2	0.0	0.0					
25	2250.0	0.0	0.0	2332.5	0.0	0.0					
26	2340.0	0.0	0.0	2425.8	0.0	0.0					
27	2430.0	0.0	0.0	2519.1	0.0	0.0					
28	2520.0	0.0	0.0	2612.4	0.0	0.0					
29	2610.0	0.0	0.0	2705.7	0.0	0.0					
30	2700.0	0.0	0.0	2799.0	0.0	0.0					
31	2790.0	0.0	0.0	2892.3	0.0	0.0					
32	2880.0	0.0	0.0	2985.6	0.0	0.0					
33	2970.0	0.0	0.0	3078.9	0.0	0.0					
34	3060.0	0.0	0.0	3172.2	0.0	0.0					
35	3150.0	0.0	0.0	3265.5	0.0	0.0					
36	3240.0	0.0	0.0	3358.8	0.0	0.0					
37	3330.0	0.0	0.0	3452.1	0.0	0.0					
38	3420.0	0.0	0.0	3545.4	0.0	0.0					
39	3510.0	0.0	0.0	3638.7	0.0	0.0					
40	3600.0	0.0	0.0	3732.0	0.0	0.0					
OASPL		115.8	96.7		115.0	95.9					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 9 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN										
BC-6 / 70				BC-61 / 71						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	90.0	112.9	93.8	93.3	115.3	96.2				
2	180.0	110.8	99.9	186.6	112.4	101.5				
3	270.0	118.9	110.3	279.9	122.7	114.1				
4	360.0	116.9	112.1	373.2	118.3	113.5				
5	450.0	115.9	112.7	466.5	120.6	117.4				
6	540.0	117.5	114.3	559.8	121.6	118.4				
7	630.0	115.8	113.9	653.1	119.2	117.3				
8	720.0	115.3	114.5	746.4	120.8	120.0				
9	810.0	117.3	116.5	839.7	120.3	119.5				
10	900.0	113.6	113.6	933.0	117.1	117.1				
11	990.0	113.5	113.5	1026.3	120.7	120.7				
12	1080.0	113.8	113.8	1119.6	118.8	118.8				
13	1170.0	113.0	113.6	1212.9	117.7	118.3				
14	1260.0	109.9	110.5	1306.2	116.6	117.2				
15	1350.0	111.8	112.4	1399.5	115.8	116.4				
16	1440.0	109.5	110.5	1492.8	112.7	113.7				
17	1530.0	106.6	107.6	1586.1	113.2	114.2				
18	1620.0	107.4	108.4	1679.4	110.9	111.9				
19	1710.0	104.9	105.9	1772.7	110.0	111.0				
20	1800.0	104.2	105.4	1866.0	109.6	110.8				
21	1890.0	103.8	105.0	1959.3	106.5	107.7				
22	1980.0	99.5	100.7	2052.6	107.9	109.1				
23	2070.0	101.9	103.1	2145.9	110.0	111.2				
24	2160.0	101.0	102.2	2239.2	103.6	104.9				
25	2250.0	93.3	94.6	2332.5	110.3	111.6				
26	2340.0	99.9	101.2	2425.8	108.3	109.6				
27	2430.0	97.2	98.5	2519.1	108.1	109.4				
28	2520.0	95.3	96.6	2612.4	108.9	110.2				
29	2610.0	97.3	98.6	2705.7	107.0	108.3				
30	2700.0	95.1	96.4	2799.0	108.6	109.9				
31	2790.0	95.8	97.1	2892.3	107.9	109.1				
32	2880.0	96.6	97.8	2985.6	105.6	106.8				
33	2970.0	94.1	95.3	3078.9	107.0	108.2				
34	3060.0	94.8	96.0	3172.2	107.3	108.5				
35	3150.0	95.5	96.7	3265.5	104.3	105.5				
36	3240.0	94.5	95.7	3358.8	104.7	105.9				
37	3330.0	90.2	91.4	3452.1	107.1	108.3				
38	3420.0	94.4	95.6	3545.4	101.5	102.7				
39	3510.0	92.0	93.2	3638.7	104.0	105.0				
40	3600.0	87.0	88.0	3732.0	104.5	105.5				
OASPL		127.2	125.3		131.6	130.2				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 1 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-1 / 117				CC-2 / 118						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	102.9	76.7	70.0	105.1	78.9				
2	120.0	91.8	75.7	140.0	97.7	81.6				
3	180.0	82.6	71.7	210.0	96.4	85.5				
4	240.0	79.9	71.3	280.0	90.1	81.5				
5	300.0	71.1	64.5	350.0	87.1	80.5				
6	360.0	60.5	55.7	420.0	81.3	76.5				
7	420.0	60.4	55.6	490.0	75.7	72.5				
8	480.0	0.0	0.0	560.0	74.0	70.8				
9	540.0	0.0	0.0	630.0	67.2	65.3				
10	600.0	0.0	0.0	700.0	64.5	62.6				
11	660.0	0.0	0.0	770.0	61.1	60.3				
12	720.0	0.0	0.0	840.0	57.5	56.7				
13	780.0	0.0	0.0	910.0	55.8	55.8				
14	840.0	0.0	0.0	980.0	0.0	0.0				
15	900.0	0.0	0.0	1050.0	0.0	0.0				
16	960.0	0.0	0.0	1120.0	0.0	0.0				
17	1020.0	0.0	0.0	1190.0	0.0	0.0				
18	1080.0	0.0	0.0	1260.0	0.0	0.0				
19	1140.0	0.0	0.0	1330.0	0.0	0.0				
20	1200.0	0.0	0.0	1400.0	0.0	0.0				
21	1260.0	0.0	0.0	1470.0	0.0	0.0				
22	1320.0	0.0	0.0	1540.0	0.0	0.0				
23	1380.0	0.0	0.0	1610.0	0.0	0.0				
24	1440.0	0.0	0.0	1680.0	0.0	0.0				
25	1500.0	0.0	0.0	1750.0	0.0	0.0				
26	1560.0	0.0	0.0	1820.0	0.0	0.0				
27	1620.0	0.0	0.0	1890.0	0.0	0.0				
28	1680.0	0.0	0.0	1960.0	0.0	0.0				
29	1740.0	0.0	0.0	2030.0	0.0	0.0				
30	1800.0	0.0	0.0	2100.0	0.0	0.0				
31	1860.0	0.0	0.0	2170.0	0.0	0.0				
32	1920.0	0.0	0.0	2240.0	0.0	0.0				
33	1980.0	0.0	0.0	2310.0	0.0	0.0				
34	2040.0	0.0	0.0	2380.0	0.0	0.0				
35	2100.0	0.0	0.0	2450.0	0.0	0.0				
36	2160.0	0.0	0.0	2520.0	0.0	0.0				
37	2220.0	0.0	0.0	2590.0	0.0	0.0				
38	2280.0	0.0	0.0	2660.0	0.0	0.0				
39	2340.0	0.0	0.0	2730.0	0.0	0.0				
40	2400.0	0.0	0.0	2800.0	0.0	0.0				
OASPL		103.3	80.7			106.5	89.6			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 2 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN											
CC-1 / 117				CC-2 / 118							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	104.4	78.2	70.0	109.7	83.5					
2	120.0	99.4	83.3	140.0	106.3	90.2					
3	180.0	93.9	83.0	210.0	101.8	90.9					
4	240.0	85.4	76.8	280.0	97.6	89.0					
5	300.0	78.4	71.8	350.0	92.6	86.0					
6	360.0	75.7	70.9	420.0	88.8	84.0					
7	420.0	71.7	66.9	490.0	84.3	81.1					
8	480.0	66.0	62.8	560.0	79.9	76.7					
9	540.0	59.4	56.2	630.0	74.6	72.7					
10	600.0	58.2	56.3	700.0	69.8	67.9					
11	660.0	0.0	0.0	770.0	68.5	67.7					
12	720.0	0.0	0.0	840.0	66.6	65.8					
13	780.0	0.0	0.0	910.0	61.8	61.8					
14	840.0	0.0	0.0	980.0	56.8	56.8					
15	900.0	0.0	0.0	1050.0	54.4	54.4					
16	960.0	0.0	0.0	1120.0	0.0	0.0					
17	1020.0	0.0	0.0	1190.0	0.0	0.0					
18	1080.0	0.0	0.0	1260.0	0.0	0.0					
19	1140.0	0.0	0.0	1330.0	0.0	0.0					
20	1200.0	0.0	0.0	1400.0	0.0	0.0					
21	1260.0	0.0	0.0	1470.0	0.0	0.0					
22	1320.0	0.0	0.0	1540.0	0.0	0.0					
23	1380.0	0.0	0.0	1610.0	0.0	0.0					
24	1440.0	0.0	0.0	1680.0	0.0	0.0					
25	1500.0	0.0	0.0	1750.0	0.0	0.0					
26	1560.0	0.0	0.0	1820.0	0.0	0.0					
27	1620.0	0.0	0.0	1890.0	0.0	0.0					
28	1680.0	0.0	0.0	1960.0	0.0	0.0					
29	1740.0	0.0	0.0	2030.0	0.0	0.0					
30	1800.0	0.0	0.0	2100.0	0.0	0.0					
31	1860.0	0.0	0.0	2170.0	0.0	0.0					
32	1920.0	0.0	0.0	2240.0	0.0	0.0					
33	1980.0	0.0	0.0	2310.0	0.0	0.0					
34	2040.0	0.0	0.0	2380.0	0.0	0.0					
35	2100.0	0.0	0.0	2450.0	0.0	0.0					
36	2160.0	0.0	0.0	2520.0	0.0	0.0					
37	2220.0	0.0	0.0	2590.0	0.0	0.0					
38	2280.0	0.0	0.0	2660.0	0.0	0.0					
39	2340.0	0.0	0.0	2730.0	0.0	0.0					
40	2400.0	0.0	0.0	2800.0	0.0	0.0					
OASPL		106.0	87.5		112.1	96.2					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 3 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-1 / 117				CC-2 / 118						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	105.9	79.7	70.0	111.6	85.4				
2	120.0	100.4	84.3	140.0	108.2	92.1				
3	180.0	94.5	83.6	210.0	103.5	92.6				
4	240.0	87.9	79.3	280.0	99.0	90.4				
5	300.0	81.9	75.3	350.0	95.3	88.7				
6	360.0	79.5	74.7	420.0	94.1	89.3				
7	420.0	72.7	67.9	490.0	89.6	86.4				
8	480.0	58.2	55.0	560.0	84.2	81.0				
9	540.0	0.0	0.0	630.0	81.7	79.8				
10	600.0	0.0	0.0	700.0	77.3	75.4				
11	660.0	0.0	0.0	770.0	71.9	71.1				
12	720.0	0.0	0.0	840.0	66.2	65.4				
13	780.0	0.0	0.0	910.0	64.4	64.4				
14	840.0	0.0	0.0	980.0	60.3	60.3				
15	900.0	0.0	0.0	1050.0	55.4	55.4				
16	960.0	0.0	0.0	1120.0	0.0	0.0				
17	1020.0	0.0	0.0	1190.0	0.0	0.0				
18	1080.0	0.0	0.0	1260.0	0.0	0.0				
19	1140.0	0.0	0.0	1330.0	0.0	0.0				
20	1200.0	0.0	0.0	1400.0	0.0	0.0				
21	1260.0	0.0	0.0	1470.0	0.0	0.0				
22	1320.0	0.0	0.0	1540.0	0.0	0.0				
23	1380.0	0.0	0.0	1610.0	0.0	0.0				
24	1440.0	0.0	0.0	1680.0	0.0	0.0				
25	1500.0	0.0	0.0	1750.0	0.0	0.0				
26	1560.0	0.0	0.0	1820.0	0.0	0.0				
27	1620.0	0.0	0.0	1890.0	0.0	0.0				
28	1680.0	0.0	0.0	1960.0	0.0	0.0				
29	1740.0	0.0	0.0	2030.0	0.0	0.0				
30	1800.0	0.0	0.0	2100.0	0.0	0.0				
31	1860.0	0.0	0.0	2170.0	0.0	0.0				
32	1920.0	0.0	0.0	2240.0	0.0	0.0				
33	1980.0	0.0	0.0	2310.0	0.0	0.0				
34	2040.0	0.0	0.0	2380.0	0.0	0.0				
35	2100.0	0.0	0.0	2450.0	0.0	0.0				
36	2160.0	0.0	0.0	2520.0	0.0	0.0				
37	2220.0	0.0	0.0	2590.0	0.0	0.0				
38	2280.0	0.0	0.0	2660.0	0.0	0.0				
39	2340.0	0.0	0.0	2730.0	0.0	0.0				
40	2400.0	0.0	0.0	2800.0	0.0	0.0				
OASPL		107.3	88.8			114.0	98.6			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 4 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-1 / 117				CC-2 / 118						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	107.4	81.2	70.0	113.3	87.1				
2	120.0	101.2	85.1	140.0	109.2	93.1				
3	180.0	94.7	83.8	210.0	103.5	92.6				
4	240.0	89.0	80.4	280.0	102.4	93.8				
5	300.0	83.6	77.0	350.0	97.6	91.0				
6	360.0	74.6	69.8	420.0	93.9	89.1				
7	420.0	70.7	65.9	490.0	88.4	85.2				
8	480.0	69.1	65.9	560.0	85.5	82.3				
9	540.0	66.1	62.9	630.0	82.4	80.5				
10	600.0	52.5	50.6	700.0	78.2	76.3				
11	660.0	0.0	0.0	770.0	74.5	73.7				
12	720.0	0.0	0.0	840.0	71.4	70.6				
13	780.0	0.0	0.0	910.0	65.3	65.3				
14	840.0	0.0	0.0	980.0	58.1	58.1				
15	900.0	0.0	0.0	1050.0	0.0	0.0				
16	960.0	0.0	0.0	1120.0	0.0	0.0				
17	1020.0	0.0	0.0	1190.0	0.0	0.0				
18	1080.0	0.0	0.0	1260.0	0.0	0.0				
19	1140.0	0.0	0.0	1330.0	0.0	0.0				
20	1200.0	0.0	0.0	1400.0	0.0	0.0				
21	1260.0	0.0	0.0	1470.0	0.0	0.0				
22	1320.0	0.0	0.0	1540.0	0.0	0.0				
23	1380.0	0.0	0.0	1610.0	0.0	0.0				
24	1440.0	0.0	0.0	1680.0	0.0	0.0				
25	1500.0	0.0	0.0	1750.0	0.0	0.0				
26	1560.0	0.0	0.0	1820.0	0.0	0.0				
27	1620.0	0.0	0.0	1890.0	0.0	0.0				
28	1680.0	0.0	0.0	1960.0	0.0	0.0				
29	1740.0	0.0	0.0	2030.0	0.0	0.0				
30	1800.0	0.0	0.0	2100.0	0.0	0.0				
31	1860.0	0.0	0.0	2170.0	0.0	0.0				
32	1920.0	0.0	0.0	2240.0	0.0	0.0				
33	1980.0	0.0	0.0	2310.0	0.0	0.0				
34	2040.0	0.0	0.0	2380.0	0.0	0.0				
35	2100.0	0.0	0.0	2450.0	0.0	0.0				
36	2160.0	0.0	0.0	2520.0	0.0	0.0				
37	2220.0	0.0	0.0	2590.0	0.0	0.0				
38	2280.0	0.0	0.0	2660.0	0.0	0.0				
39	2340.0	0.0	0.0	2730.0	0.0	0.0				
40	2400.0	0.0	0.0	2800.0	0.0	0.0				
OASPL		108.5	89.4		115.4	99.8				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 5 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-1 / 117				CC-2 / 118						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	108.2	82.0	70.0	114.7	88.5				
2	120.0	102.5	86.4	140.0	110.5	94.4				
3	180.0	94.0	83.1	210.0	101.4	90.5				
4	240.0	85.4	76.8	280.0	101.8	93.2				
5	300.0	82.4	75.8	350.0	99.6	93.0				
6	360.0	82.2	77.4	420.0	91.6	86.8				
7	420.0	75.3	70.5	490.0	86.5	83.3				
8	480.0	65.8	62.6	560.0	86.2	83.0				
9	540.0	58.9	55.7	630.0	82.0	80.1				
10	600.0	60.0	58.1	700.0	76.6	74.7				
11	660.0	0.0	0.0	770.0	74.0	73.2				
12	720.0	0.0	0.0	840.0	69.1	68.3				
13	780.0	0.0	0.0	910.0	62.5	62.5				
14	840.0	0.0	0.0	980.0	59.9	59.9				
15	900.0	0.0	0.0	1050.0	0.0	0.0				
16	960.0	0.0	0.0	1120.0	0.0	0.0				
17	1020.0	0.0	0.0	1190.0	0.0	0.0				
18	1080.0	0.0	0.0	1260.0	0.0	0.0				
19	1140.0	0.0	0.0	1330.0	0.0	0.0				
20	1200.0	0.0	0.0	1400.0	0.0	0.0				
21	1260.0	0.0	0.0	1470.0	0.0	0.0				
22	1320.0	0.0	0.0	1540.0	0.0	0.0				
23	1380.0	0.0	0.0	1610.0	0.0	0.0				
24	1440.0	0.0	0.0	1680.0	0.0	0.0				
25	1500.0	0.0	0.0	1750.0	0.0	0.0				
26	1560.0	0.0	0.0	1820.0	0.0	0.0				
27	1620.0	0.0	0.0	1890.0	0.0	0.0				
28	1680.0	0.0	0.0	1960.0	0.0	0.0				
29	1740.0	0.0	0.0	2030.0	0.0	0.0				
30	1800.0	0.0	0.0	2100.0	0.0	0.0				
31	1860.0	0.0	0.0	2170.0	0.0	0.0				
32	1920.0	0.0	0.0	2240.0	0.0	0.0				
33	1980.0	0.0	0.0	2310.0	0.0	0.0				
34	2040.0	0.0	0.0	2380.0	0.0	0.0				
35	2100.0	0.0	0.0	2450.0	0.0	0.0				
36	2160.0	0.0	0.0	2520.0	0.0	0.0				
37	2220.0	0.0	0.0	2590.0	0.0	0.0				
38	2280.0	0.0	0.0	2660.0	0.0	0.0				
39	2340.0	0.0	0.0	2730.0	0.0	0.0				
40	2400.0	0.0	0.0	2800.0	0.0	0.0				
OASPL		109.4	89.8			116.5	99.9			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 6 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN											
CC-1 / 117				CC-2 / 118							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	107.3	81.1	70.0	114.9	88.7					
2	120.0	102.1	86.0	140.0	109.0	92.9					
3	180.0	92.8	81.9	210.0	100.6	89.7					
4	240.0	84.5	75.9	280.0	100.5	91.9					
5	300.0	84.6	78.0	350.0	96.6	90.0					
6	360.0	70.3	65.5	420.0	84.6	79.8					
7	420.0	67.6	62.8	490.0	79.7	76.5					
8	480.0	66.7	63.5	560.0	83.2	80.0					
9	540.0	57.5	54.3	630.0	72.2	70.3					
10	600.0	0.0	0.0	700.0	67.4	65.5					
11	660.0	0.0	0.0	770.0	67.6	66.8					
12	720.0	0.0	0.0	840.0	59.0	58.2					
13	780.0	0.0	0.0	910.0	0.0	0.0					
14	840.0	0.0	0.0	980.0	0.0	0.0					
15	900.0	0.0	0.0	1050.0	0.0	0.0					
16	960.0	0.0	0.0	1120.0	0.0	0.0					
17	1020.0	0.0	0.0	1190.0	0.0	0.0					
18	1080.0	0.0	0.0	1260.0	0.0	0.0					
19	1140.0	0.0	0.0	1330.0	0.0	0.0					
20	1200.0	0.0	0.0	1400.0	0.0	0.0					
21	1260.0	0.0	0.0	1470.0	0.0	0.0					
22	1320.0	0.0	0.0	1540.0	0.0	0.0					
23	1380.0	0.0	0.0	1610.0	0.0	0.0					
24	1440.0	0.0	0.0	1680.0	0.0	0.0					
25	1500.0	0.0	0.0	1750.0	0.0	0.0					
26	1560.0	0.0	0.0	1820.0	0.0	0.0					
27	1620.0	0.0	0.0	1890.0	0.0	0.0					
28	1680.0	0.0	0.0	1960.0	0.0	0.0					
29	1740.0	0.0	0.0	2030.0	0.0	0.0					
30	1800.0	0.0	0.0	2100.0	0.0	0.0					
31	1860.0	0.0	0.0	2170.0	0.0	0.0					
32	1920.0	0.0	0.0	2240.0	0.0	0.0					
33	1980.0	0.0	0.0	2310.0	0.0	0.0					
34	2040.0	0.0	0.0	2380.0	0.0	0.0					
35	2100.0	0.0	0.0	2450.0	0.0	0.0					
36	2160.0	0.0	0.0	2520.0	0.0	0.0					
37	2220.0	0.0	0.0	2590.0	0.0	0.0					
38	2280.0	0.0	0.0	2660.0	0.0	0.0					
39	2340.0	0.0	0.0	2730.0	0.0	0.0					
40	2400.0	0.0	0.0	2800.0	0.0	0.0					
OASPL		108.6	89.0			116.2	98.1				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 7 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-1 / 117				CC-2 / 118						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	105.1	78.9	70.0	111.6	85.4				
2	120.0	94.5	78.4	140.0	102.3	86.2				
3	180.0	81.5	70.6	210.0	93.7	82.8				
4	240.0	74.1	65.5	280.0	79.8	71.2				
5	300.0	73.9	67.3	350.0	83.3	76.7				
6	360.0	64.8	60.0	420.0	70.8	66.0				
7	420.0	62.8	58.0	490.0	70.4	67.2				
8	480.0	61.8	58.6	560.0	62.6	59.4				
9	540.0	58.0	54.8	630.0	0.0	0.0				
10	600.0	57.6	55.7	700.0	0.0	0.0				
11	660.0	0.0	0.0	770.0	0.0	0.0				
12	720.0	0.0	0.0	840.0	0.0	0.0				
13	780.0	0.0	0.0	910.0	0.0	0.0				
14	840.0	0.0	0.0	980.0	0.0	0.0				
15	900.0	0.0	0.0	1050.0	0.0	0.0				
16	960.0	0.0	0.0	1120.0	0.0	0.0				
17	1020.0	0.0	0.0	1190.0	0.0	0.0				
18	1080.0	0.0	0.0	1260.0	0.0	0.0				
19	1140.0	0.0	0.0	1330.0	0.0	0.0				
20	1200.0	0.0	0.0	1400.0	0.0	0.0				
21	1260.0	0.0	0.0	1470.0	0.0	0.0				
22	1320.0	0.0	0.0	1540.0	0.0	0.0				
23	1380.0	0.0	0.0	1610.0	0.0	0.0				
24	1440.0	0.0	0.0	1680.0	0.0	0.0				
25	1500.0	0.0	0.0	1750.0	0.0	0.0				
26	1560.0	0.0	0.0	1820.0	0.0	0.0				
27	1620.0	0.0	0.0	1890.0	0.0	0.0				
28	1680.0	0.0	0.0	1960.0	0.0	0.0				
29	1740.0	0.0	0.0	2030.0	0.0	0.0				
30	1800.0	0.0	0.0	2100.0	0.0	0.0				
31	1860.0	0.0	0.0	2170.0	0.0	0.0				
32	1920.0	0.0	0.0	2240.0	0.0	0.0				
33	1980.0	0.0	0.0	2310.0	0.0	0.0				
34	2040.0	0.0	0.0	2380.0	0.0	0.0				
35	2100.0	0.0	0.0	2450.0	0.0	0.0				
36	2160.0	0.0	0.0	2520.0	0.0	0.0				
37	2220.0	0.0	0.0	2590.0	0.0	0.0				
38	2280.0	0.0	0.0	2660.0	0.0	0.0				
39	2340.0	0.0	0.0	2730.0	0.0	0.0				
40	2400.0	0.0	0.0	2800.0	0.0	0.0				
OASPL		105.5	82.3			112.2	90.1			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 9 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN											
CC-1 / 117				CC-2 / 118							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	106.8	80.6	70.0	109.6	83.4					
2	120.0	100.7	84.6	140.0	106.7	90.6					
3	180.0	93.5	82.6	210.0	97.9	87.0					
4	240.0	83.6	75.0	280.0	102.3	93.7					
5	300.0	82.9	76.3	350.0	96.5	89.9					
6	360.0	80.3	75.5	420.0	88.6	83.8					
7	420.0	66.6	61.8	490.0	84.1	80.9					
8	480.0	64.6	61.4	560.0	86.0	82.8					
9	540.0	0.0	0.0	630.0	78.7	76.8					
10	600.0	0.0	0.0	700.0	76.7	74.8					
11	660.0	0.0	0.0	770.0	76.5	75.7					
12	720.0	0.0	0.0	840.0	70.0	69.2					
13	780.0	0.0	0.0	910.0	62.5	62.5					
14	840.0	0.0	0.0	980.0	0.0	0.0					
15	900.0	0.0	0.0	1050.0	0.0	0.0					
16	960.0	0.0	0.0	1120.0	0.0	0.0					
17	1020.0	0.0	0.0	1190.0	0.0	0.0					
18	1080.0	0.0	0.0	1260.0	0.0	0.0					
19	1140.0	0.0	0.0	1330.0	0.0	0.0					
20	1200.0	0.0	0.0	1400.0	0.0	0.0					
21	1260.0	0.0	0.0	1470.0	0.0	0.0					
22	1320.0	0.0	0.0	1540.0	0.0	0.0					
23	1380.0	0.0	0.0	1610.0	0.0	0.0					
24	1440.0	0.0	0.0	1680.0	0.0	0.0					
25	1500.0	0.0	0.0	1750.0	0.0	0.0					
26	1560.0	0.0	0.0	1820.0	0.0	0.0					
27	1620.0	0.0	0.0	1890.0	0.0	0.0					
28	1680.0	0.0	0.0	1960.0	0.0	0.0					
29	1740.0	0.0	0.0	2030.0	0.0	0.0					
30	1800.0	0.0	0.0	2100.0	0.0	0.0					
31	1860.0	0.0	0.0	2170.0	0.0	0.0					
32	1920.0	0.0	0.0	2240.0	0.0	0.0					
33	1980.0	0.0	0.0	2310.0	0.0	0.0					
34	2040.0	0.0	0.0	2380.0	0.0	0.0					
35	2100.0	0.0	0.0	2450.0	0.0	0.0					
36	2160.0	0.0	0.0	2520.0	0.0	0.0					
37	2220.0	0.0	0.0	2590.0	0.0	0.0					
38	2280.0	0.0	0.0	2660.0	0.0	0.0					
39	2340.0	0.0	0.0	2730.0	0.0	0.0					
40	2400.0	0.0	0.0	2800.0	0.0	0.0					
OASPL		107.9	88.4		112.2	97.7					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 1 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN											
CC-3 / 119				CC-4 / 120				CC-7 / 121			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	100.5	74.3	70.0	105.4	79.2	75.0	109.4	86.9		
2	120.0	90.5	74.4	140.0	97.7	81.6	150.0	104.4	91.0		
3	180.0	81.7	70.8	210.0	95.2	84.3	225.0	98.3	89.7		
4	240.0	79.6	71.0	280.0	88.9	80.3	300.0	97.6	91.0		
5	300.0	69.9	63.3	350.0	84.1	77.5	375.0	88.6	83.8		
6	360.0	62.6	57.8	420.0	73.9	69.1	450.0	79.1	75.9		
7	420.0	0.0	0.0	490.0	63.2	60.0	525.0	81.9	78.7		
8	480.0	0.0	0.0	560.0	0.0	0.0	600.0	72.6	70.7		
9	540.0	0.0	0.0	630.0	0.0	0.0	675.0	70.7	68.8		
10	600.0	0.0	0.0	700.0	0.0	0.0	750.0	77.1	76.3		
11	660.0	0.0	0.0	770.0	0.0	0.0	825.0	68.9	68.1		
12	720.0	0.0	0.0	840.0	0.0	0.0	900.0	68.4	68.4		
13	780.0	0.0	0.0	910.0	0.0	0.0	975.0	60.1	60.1		
14	840.0	0.0	0.0	980.0	0.0	0.0	1050.0	55.7	55.7		
15	900.0	0.0	0.0	1050.0	0.0	0.0	1125.0	0.0	0.0		
16	960.0	0.0	0.0	1120.0	0.0	0.0	1200.0	0.0	0.0		
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1275.0	0.0	0.0		
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1350.0	0.0	0.0		
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1425.0	0.0	0.0		
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1500.0	0.0	0.0		
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1575.0	0.0	0.0		
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1650.0	0.0	0.0		
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1725.0	0.0	0.0		
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1800.0	0.0	0.0		
25	1500.0	0.0	0.0	1750.0	0.0	0.0	1875.0	0.0	0.0		
26	1560.0	0.0	0.0	1820.0	0.0	0.0	1950.0	0.0	0.0		
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2025.0	0.0	0.0		
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2100.0	0.0	0.0		
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2175.0	0.0	0.0		
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2250.0	0.0	0.0		
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2325.0	0.0	0.0		
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2400.0	0.0	0.0		
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2475.0	0.0	0.0		
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2550.0	0.0	0.0		
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2625.0	0.0	0.0		
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2700.0	0.0	0.0		
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2775.0	0.0	0.0		
38	2280.0	0.0	0.0	2660.0	0.0	0.0	2850.0	0.0	0.0		
39	2340.0	0.0	0.0	2730.0	0.0	0.0	2925.0	0.0	0.0		
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3000.0	0.0	0.0		
OASPL		101.0	79.1	106.6		88.3	111.1		96.4		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 2 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN											
CC-3 / 119				CC-4 / 120				CC-7 / 121			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	102.0	75.8	70.0	108.6	82.4	75.0	113.0	90.5		
2	120.0	97.7	81.6	140.0	105.1	89.0	150.0	109.6	96.2		
3	180.0	93.4	82.5	210.0	101.1	90.2	225.0	104.2	95.6		
4	240.0	83.8	75.2	280.0	97.2	88.6	300.0	101.3	94.7		
5	300.0	79.2	72.6	350.0	92.6	86.0	375.0	100.2	95.4		
6	360.0	70.6	65.8	420.0	90.4	85.6	450.0	97.1	93.9		
7	420.0	68.0	63.2	490.0	86.3	83.1	525.0	94.9	91.7		
8	480.0	63.4	60.2	560.0	79.3	76.1	600.0	89.1	87.2		
9	540.0	61.9	58.7	630.0	76.7	74.8	675.0	85.5	83.6		
10	600.0	0.0	0.0	700.0	70.8	68.9	750.0	81.9	81.1		
11	660.0	0.0	0.0	770.0	64.7	63.9	825.0	82.0	81.2		
12	720.0	0.0	0.0	840.0	66.3	65.5	900.0	78.6	78.6		
13	780.0	0.0	0.0	910.0	62.7	62.7	975.0	72.8	72.8		
14	840.0	0.0	0.0	980.0	57.5	57.5	1050.0	65.1	65.1		
15	900.0	0.0	0.0	1050.0	0.0	0.0	1125.0	63.9	64.5		
16	960.0	0.0	0.0	1120.0	0.0	0.0	1200.0	62.2	62.8		
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1275.0	55.1	55.7		
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1350.0	0.0	0.0		
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1425.0	0.0	0.0		
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1500.0	0.0	0.0		
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1575.0	0.0	0.0		
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1650.0	0.0	0.0		
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1725.0	0.0	0.0		
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1800.0	0.0	0.0		
25	1500.0	0.0	0.0	1750.0	0.0	0.0	1875.0	0.0	0.0		
26	1560.0	0.0	0.0	1820.0	0.0	0.0	1950.0	0.0	0.0		
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2025.0	0.0	0.0		
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2100.0	0.0	0.0		
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2175.0	0.0	0.0		
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2250.0	0.0	0.0		
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2325.0	0.0	0.0		
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2400.0	0.0	0.0		
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2475.0	0.0	0.0		
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2550.0	0.0	0.0		
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2625.0	0.0	0.0		
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2700.0	0.0	0.0		
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2775.0	0.0	0.0		
38	2280.0	0.0	0.0	2660.0	0.0	0.0	2850.0	0.0	0.0		
39	2340.0	0.0	0.0	2730.0	0.0	0.0	2925.0	0.0	0.0		
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3000.0	0.0	0.0		
C SPL		103.9	86.2	111.0		95.8	115.5		103.1		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 3 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN											
CC-3 / 119				CC-4 / 120				CC-7 / 121			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	103.8	77.6	70.0	109.7	83.5	75.0	113.9	91.4		
2	120.0	98.9	82.8	140.0	106.5	90.4	150.0	110.7	97.3		
3	180.0	93.4	82.5	210.0	102.6	91.7	225.0	107.3	98.7		
4	240.0	86.6	78.0	280.0	98.8	90.2	300.0	103.5	96.9		
5	300.0	75.1	68.5	350.0	95.3	88.7	375.0	104.3	99.5		
6	360.0	77.3	72.5	420.0	92.9	88.1	450.0	100.2	97.0		
7	420.0	72.6	67.8	490.0	87.0	83.8	525.0	95.5	92.3		
8	480.0	66.3	63.1	560.0	85.2	82.0	600.0	93.7	91.8		
9	540.0	58.9	55.7	630.0	81.1	79.2	675.0	91.7	89.8		
10	600.0	0.0	0.0	700.0	76.5	74.6	750.0	88.4	87.6		
11	660.0	0.0	0.0	770.0	72.8	72.0	825.0	85.2	84.4		
12	720.0	0.0	0.0	840.0	67.6	66.8	900.0	82.1	82.1		
13	780.0	0.0	0.0	910.0	65.5	65.5	975.0	80.1	80.1		
14	840.0	0.0	0.0	980.0	0.0	0.0	1050.0	76.4	76.4		
15	900.0	0.0	0.0	1050.0	0.0	0.0	1125.0	70.6	71.2		
16	960.0	0.0	0.0	1120.0	0.0	0.0	1200.0	67.7	68.3		
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1275.0	66.2	66.8		
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1350.0	61.0	61.6		
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1425.0	51.7	52.7		
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1500.0	0.0	0.0		
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1575.0	0.0	0.0		
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1650.0	0.0	0.0		
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1725.0	0.0	0.0		
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1800.0	0.0	0.0		
25	1500.0	0.0	0.0	1750.0	0.0	0.0	1875.0	0.0	0.0		
26	1560.0	0.0	0.0	1820.0	0.0	0.0	1950.0	0.0	0.0		
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2025.0	0.0	0.0		
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2100.0	0.0	0.0		
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2175.0	0.0	0.0		
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2250.0	0.0	0.0		
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2325.0	0.0	0.0		
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2400.0	0.0	0.0		
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2475.0	0.0	0.0		
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2550.0	0.0	0.0		
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2625.0	0.0	0.0		
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2700.0	0.0	0.0		
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2775.0	0.0	0.0		
38	2280.0	0.0	0.0	2660.0	0.0	0.0	2850.0	0.0	0.0		
39	2340.0	0.0	0.0	2730.0	0.0	0.0	2925.0	0.0	0.0		
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3000.0	0.0	0.0		
OASPL		105.4	87.2	112.3		97.6	116.9		105.8		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 4 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-3 / 119				CC-4 / 120				CC-7 / 121		
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	105.3	79.1	70.0	111.2	85.0	75.0	114.6	92.1	
2	120.0	99.4	83.3	140.0	107.8	91.7	150.0	111.2	97.8	
3	180.0	93.4	82.5	210.0	102.8	91.9	225.0	108.5	99.9	
4	240.0	88.3	79.7	280.0	101.4	92.8	300.0	106.4	99.8	
5	300.0	80.8	74.2	350.0	95.8	89.2	375.0	103.8	99.0	
6	360.0	75.8	71.0	420.0	92.7	87.9	450.0	100.5	97.3	
7	420.0	69.3	64.5	490.0	90.0	86.8	525.0	97.2	94.0	
8	480.0	67.6	64.4	560.0	84.1	80.9	600.0	95.0	93.1	
9	540.0	60.6	57.4	630.0	82.3	80.4	675.0	91.8	89.9	
10	600.0	0.0	0.0	700.0	77.2	75.3	750.0	89.1	88.3	
11	660.0	0.0	0.0	770.0	74.0	73.2	825.0	85.6	84.8	
12	720.0	0.0	0.0	840.0	71.4	70.6	900.0	82.6	82.6	
13	780.0	0.0	0.0	910.0	66.8	66.8	975.0	80.3	80.3	
14	840.0	0.0	0.0	980.0	64.0	64.0	1050.0	76.7	76.7	
15	900.0	0.0	0.0	1050.0	59.6	59.6	1125.0	74.7	75.3	
16	960.0	0.0	0.0	1120.0	0.0	0.0	1200.0	70.7	71.3	
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1275.0	61.3	61.9	
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1350.0	56.6	57.2	
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1425.0	56.9	57.9	
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1500.0	0.0	0.0	
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1575.0	0.0	0.0	
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1650.0	0.0	0.0	
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1725.0	0.0	0.0	
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1800.0	0.0	0.0	
25	1500.0	0.0	0.0	1750.0	0.0	0.0	1875.0	0.0	0.0	
26	1560.0	0.0	0.0	1820.0	0.0	0.0	1950.0	0.0	0.0	
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2025.0	0.0	0.0	
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2100.0	0.0	0.0	
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2175.0	0.0	0.0	
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2250.0	0.0	0.0	
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2325.0	0.0	0.0	
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2400.0	0.0	0.0	
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2475.0	0.0	0.0	
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2550.0	0.0	0.0	
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2625.0	0.0	0.0	
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2700.0	0.0	0.0	
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2775.0	0.0	0.0	
38	2280.0	0.0	0.0	2660.0	0.0	0.0	2850.0	0.0	0.0	
39	2340.0	0.0	0.0	2730.0	0.0	0.0	2925.0	0.0	0.0	
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3000.0	0.0	0.0	
OASPL		106.6	87.9	113.7		98.8	117.6		106.7	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 5 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN											
CC-3 / 119				CC-4 / 120				CC-7 / 121			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	106.3	80.1	70.0	112.8	86.6	75.0	115.6	93.1		
2	120.0	100.1	84.0	140.0	109.4	93.3	150.0	112.9	99.5		
3	180.0	91.5	80.6	210.0	101.2	90.3	225.0	107.0	98.4		
4	240.0	84.8	76.2	280.0	100.7	92.1	300.0	108.7	102.1		
5	300.0	85.1	78.5	350.0	99.0	92.4	375.0	107.2	102.4		
6	360.0	76.5	71.7	420.0	93.0	88.2	450.0	96.1	92.9		
7	420.0	71.0	66.2	490.0	84.1	80.9	525.0	95.0	91.8		
8	480.0	57.1	53.9	560.0	86.2	83.0	600.0	95.8	93.9		
9	540.0	0.0	0.0	630.0	81.3	79.4	675.0	91.7	89.8		
10	600.0	0.0	0.0	700.0	75.2	73.3	750.0	87.6	86.8		
11	660.0	0.0	0.0	770.0	70.8	70.0	825.0	85.1	84.3		
12	720.0	0.0	0.0	840.0	71.4	70.6	900.0	79.2	79.2		
13	780.0	0.0	0.0	910.0	47.8	47.8	975.0	79.2	79.2		
14	840.0	0.0	0.0	980.0	0.0	0.0	1050.0	75.7	75.7		
15	900.0	0.0	0.0	1050.0	0.0	0.0	1125.0	69.9	70.5		
16	960.0	0.0	0.0	1120.0	0.0	0.0	1200.0	68.6	69.2		
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1275.0	66.2	66.8		
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1350.0	54.0	54.6		
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1425.0	0.0	0.0		
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1500.0	0.0	0.0		
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1575.0	0.0	0.0		
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1650.0	0.0	0.0		
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1725.0	0.0	0.0		
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1800.0	0.0	0.0		
25	1500.0	0.0	0.0	1750.0	0.0	0.0	1875.0	0.0	0.0		
26	1560.0	0.0	0.0	1820.0	0.0	0.0	1950.0	0.0	0.0		
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2025.0	0.0	0.0		
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2100.0	0.0	0.0		
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2175.0	0.0	0.0		
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2250.0	0.0	0.0		
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2325.0	0.0	0.0		
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2400.0	0.0	0.0		
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2475.0	0.0	0.0		
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2550.0	0.0	0.0		
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2625.0	0.0	0.0		
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2700.0	0.0	0.0		
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2775.0	0.0	0.0		
38	2280.0	0.0	0.0	2660.0	0.0	0.0	2850.0	0.0	0.0		
39	2340.0	0.0	0.0	2730.0	0.0	0.0	2925.0	0.0	0.0		
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3000.0	0.0	0.0		
OASPL		107.4	87.8			115.0	99.1			118.7	107.7

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 6 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN											
CC-3 / 119				CC-4 / 120				CC-7 / 121			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	105.9	79.7	70.0	113.9	87.7	75.0	115.7	93.2		
2	120.0	99.7	83.6	140.0	108.4	92.3	150.0	113.0	99.6		
3	180.0	89.6	78.7	210.0	99.0	88.1	225.0	106.7	98.1		
4	240.0	79.3	70.7	280.0	100.0	91.4	300.0	106.2	99.6		
5	300.0	78.3	71.7	350.0	95.0	88.4	375.0	101.5	96.7		
6	360.0	69.6	64.8	420.0	86.9	82.1	450.0	91.1	87.9		
7	420.0	58.9	54.1	490.0	82.8	79.6	525.0	95.1	91.9		
8	480.0	0.0	0.0	560.0	83.3	80.1	600.0	91.9	90.0		
9	540.0	0.0	0.0	630.0	72.7	70.8	675.0	81.0	79.1		
10	600.0	0.0	0.0	700.0	62.5	60.6	750.0	80.9	80.1		
11	660.0	0.0	0.0	770.0	0.0	0.0	825.0	79.1	78.3		
12	720.0	0.0	0.0	840.0	0.0	0.0	900.0	73.5	73.5		
13	780.0	0.0	0.0	910.0	0.0	0.0	975.0	57.8	57.8		
14	840.0	0.0	0.0	980.0	0.0	0.0	1050.0	0.0	0.0		
15	900.0	0.0	0.0	1050.0	0.0	0.0	1125.0	0.0	0.0		
16	960.0	0.0	0.0	1120.0	0.0	0.0	1200.0	0.0	0.0		
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1275.0	0.0	0.0		
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1350.0	0.0	0.0		
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1425.0	0.0	0.0		
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1500.0	0.0	0.0		
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1575.0	0.0	0.0		
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1650.0	0.0	0.0		
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1725.0	0.0	0.0		
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1800.0	0.0	0.0		
25	1500.0	0.0	0.0	1750.0	0.0	0.0	1875.0	0.0	0.0		
26	1560.0	0.0	0.0	1820.0	0.0	0.0	1950.0	0.0	0.0		
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2025.0	0.0	0.0		
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2100.0	0.0	0.0		
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2175.0	0.0	0.0		
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2250.0	0.0	0.0		
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2325.0	0.0	0.0		
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2400.0	0.0	0.0		
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2475.0	0.0	0.0		
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2550.0	0.0	0.0		
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2625.0	0.0	0.0		
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2700.0	0.0	0.0		
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2775.0	0.0	0.0		
38	2280.0	0.0	0.0	2660.0	0.0	0.0	2850.0	0.0	0.0		
39	2340.0	0.0	0.0	2730.0	0.0	0.0	2925.0	0.0	0.0		
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3000.0	0.0	0.0		
OASPL		106.9	86.3			115.3	97.3			118.3	105.4

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 7 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-3 / 119			CC-4 / 120			CC-7 / 121				
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	102.3	76.1	70.0	112.1	85.9	75.0	114.4	91.9	
2	120.0	91.2	75.1	140.0	99.2	83.1	150.0	107.9	94.5	
3	180.0	83.3	72.4	210.0	93.9	83.0	225.0	101.8	93.2	
4	240.0	74.9	66.3	280.0	82.7	74.1	300.0	85.2	78.6	
5	300.0	64.7	58.1	350.0	80.4	73.8	375.0	83.1	78.3	
6	360.0	0.0	0.0	420.0	77.9	73.1	450.0	68.8	65.6	
7	420.0	0.0	0.0	490.0	71.1	67.9	525.0	82.0	78.8	
8	480.0	0.0	0.0	560.0	69.4	66.2	600.0	71.0	69.1	
9	540.0	0.0	0.0	630.0	52.6	50.7	675.0	69.1	67.2	
10	600.0	0.0	0.0	700.0	0.0	0.0	750.0	71.3	70.5	
11	660.0	0.0	0.0	770.0	0.0	0.0	825.0	69.1	68.3	
12	720.0	0.0	0.0	840.0	0.0	0.0	900.0	56.7	56.7	
13	780.0	0.0	0.0	910.0	0.0	0.0	975.0	0.0	0.0	
14	840.0	0.0	0.0	980.0	0.0	0.0	1050.0	0.0	0.0	
15	900.0	0.0	0.0	1050.0	0.0	0.0	1125.0	0.0	0.0	
16	960.0	0.0	0.0	1120.0	0.0	0.0	1200.0	0.0	0.0	
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1275.0	0.0	0.0	
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1350.0	0.0	0.0	
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1425.0	0.0	0.0	
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1500.0	0.0	0.0	
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1575.0	0.0	0.0	
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1650.0	0.0	0.0	
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1725.0	0.0	0.0	
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1800.0	0.0	0.0	
25	1500.0	0.0	0.0	1750.0	0.0	0.0	1875.0	0.0	0.0	
26	1560.0	0.0	0.0	1820.0	0.0	0.0	1950.0	0.0	0.0	
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2025.0	0.0	0.0	
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2100.0	0.0	0.0	
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2175.0	0.0	0.0	
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2250.0	0.0	0.0	
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2325.0	0.0	0.0	
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2400.0	0.0	0.0	
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2475.0	0.0	0.0	
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2550.0	0.0	0.0	
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2625.0	0.0	0.0	
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2700.0	0.0	0.0	
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2775.0	0.0	0.0	
38	2280.0	0.0	0.0	2660.0	0.0	0.0	2850.0	0.0	0.0	
39	2340.0	0.0	0.0	2730.0	0.0	0.0	2925.0	0.0	0.0	
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3000.0	0.0	0.0	
OASPL		102.7	79.8	112.4		89.4	115.5		98.3	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 9 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-3 / 119			CC-4 / 120			CC-7 / 121				
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	105.5	79.3	70.0	109.2	83.0	75.0	113.0	90.5	
2	120.0	99.7	83.6	140.0	106.0	89.9	150.0	109.4	96.0	
3	180.0	91.8	80.9	210.0	97.5	86.6	225.0	102.7	94.1	
4	240.0	80.3	71.7	280.0	101.9	93.3	300.0	106.4	99.8	
5	300.0	0.0	0.0	350.0	95.9	89.3	375.0	103.7	98.9	
6	360.0	0.0	0.0	420.0	88.3	83.5	450.0	98.1	94.9	
7	420.0	0.0	0.0	490.0	85.3	82.1	525.0	95.3	92.1	
8	480.0	0.0	0.0	560.0	85.8	82.6	600.0	94.2	92.3	
9	540.0	0.0	0.0	630.0	77.2	75.3	675.0	89.3	87.4	
10	600.0	0.0	0.0	700.0	76.0	74.1	750.0	89.8	89.0	
11	660.0	0.0	0.0	770.0	73.2	72.4	825.0	85.3	84.5	
12	720.0	0.0	0.0	840.0	70.3	69.5	900.0	82.3	82.3	
13	780.0	0.0	0.0	910.0	61.4	61.4	975.0	75.3	75.3	
14	840.0	0.0	0.0	980.0	0.0	0.0	1050.0	75.4	75.4	
15	900.0	0.0	0.0	1050.0	0.0	0.0	1125.0	70.8	71.4	
16	960.0	0.0	0.0	1120.0	0.0	0.0	1200.0	71.0	71.6	
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1275.0	61.9	62.5	
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1350.0	0.0	0.0	
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1425.0	0.0	0.0	
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1500.0	0.0	0.0	
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1575.0	0.0	0.0	
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1650.0	0.0	0.0	
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1725.0	0.0	0.0	
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1800.0	0.0	0.0	
25	1500.0	0.0	0.0	1750.0	0.0	0.0	1875.0	0.0	0.0	
26	1560.0	0.0	0.0	1820.0	0.0	0.0	1950.0	0.0	0.0	
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2025.0	0.0	0.0	
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2100.0	0.0	0.0	
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2175.0	0.0	0.0	
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2250.0	0.0	0.0	
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2325.0	0.0	0.0	
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2400.0	0.0	0.0	
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2475.0	0.0	0.0	
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2550.0	0.0	0.0	
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2625.0	0.0	0.0	
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2700.0	0.0	0.0	
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2775.0	0.0	0.0	
38	2280.0	0.0	0.0	2660.0	0.0	0.0	2850.0	0.0	0.0	
39	2340.0	0.0	0.0	2730.0	0.0	0.0	2925.0	0.0	0.0	
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3000.0	0.0	0.0	
OASPL		106.7	86.5		111.7	97.2		115.9	105.2	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 1 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-5 / 123				CC-6 / 122						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	80.0	109.7	87.2	43.1	84.9	50.3				
2	160.0	106.3	92.9	86.2	73.5	51.0				
3	240.0	103.9	95.3	129.3	0.0	0.0				
4	320.0	99.9	93.3	172.4	0.0	0.0				
5	400.0	99.5	94.7	215.5	0.0	0.0				
6	480.0	92.8	89.6	258.6	0.0	0.0				
7	560.0	87.3	84.1	301.7	0.0	0.0				
8	640.0	87.9	86.0	344.8	0.0	0.0				
9	720.0	84.5	83.7	387.9	0.0	0.0				
10	800.0	76.8	76.0	431.0	0.0	0.0				
11	880.0	77.0	76.2	474.1	0.0	0.0				
12	960.0	74.8	74.8	517.2	0.0	0.0				
13	1040.0	73.6	73.6	560.3	0.0	0.0				
14	1120.0	66.2	66.2	603.4	0.0	0.0				
15	1200.0	62.2	62.8	646.5	0.0	0.0				
16	1280.0	0.0	0.0	689.6	0.0	0.0				
17	1360.0	0.0	0.0	732.7	0.0	0.0				
18	1440.0	0.0	0.0	775.8	0.0	0.0				
19	1520.0	0.0	0.0	818.9	0.0	0.0				
20	1600.0	0.0	0.0	862.0	0.0	0.0				
21	1680.0	0.0	0.0	905.1	0.0	0.0				
22	1760.0	0.0	0.0	948.2	0.0	0.0				
23	1840.0	0.0	0.0	991.3	0.0	0.0				
24	1920.0	0.0	0.0	1034.4	0.0	0.0				
25	2000.0	0.0	0.0	1077.5	0.0	0.0				
26	2080.0	0.0	0.0	1120.6	0.0	0.0				
27	2160.0	0.0	0.0	1163.7	0.0	0.0				
28	2240.0	0.0	0.0	1206.8	0.0	0.0				
29	2320.0	0.0	0.0	1249.9	0.0	0.0				
30	2400.0	0.0	0.0	1293.0	0.0	0.0				
31	2480.0	0.0	0.0	1336.1	0.0	0.0				
32	2560.0	0.0	0.0	1379.2	0.0	0.0				
33	2640.0	0.0	0.0	1422.3	0.0	0.0				
34	2720.0	0.0	0.0	1465.4	0.0	0.0				
35	2800.0	0.0	0.0	1508.5	0.0	0.0				
36	2880.0	0.0	0.0	1551.6	0.0	0.0				
37	2960.0	0.0	0.0	1594.7	0.0	0.0				
38	3040.0	0.0	0.0	1637.8	0.0	0.0				
39	3120.0	0.0	0.0	1680.9	0.0	0.0				
40	3200.0	0.0	0.0	1724.0	0.0	0.0				
OASPL		112.6	101.1		85.2	53.6				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 3 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-5 / 123				CC-6 / 122						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	80.0	111.8	89.3	43.1	85.5	50.9				
2	160.0	111.7	98.3	86.2	78.7	56.2				
3	240.0	110.7	102.1	129.3	0.0	0.0				
4	320.0	107.5	100.9	172.4	0.0	0.0				
5	400.0	108.3	103.5	215.5	0.0	0.0				
6	480.0	105.8	102.6	258.6	0.0	0.0				
7	560.0	102.1	98.9	301.7	0.0	0.0				
8	640.0	101.9	100.0	344.8	0.0	0.0				
9	720.0	100.7	99.9	387.9	0.0	0.0				
10	800.0	97.3	96.5	431.0	0.0	0.0				
11	880.0	95.1	94.3	474.1	0.0	0.0				
12	960.0	93.5	93.5	517.2	0.0	0.0				
13	1040.0	90.8	90.8	560.3	0.0	0.0				
14	1120.0	86.5	86.5	603.4	0.0	0.0				
15	1200.0	85.6	86.2	646.5	0.0	0.0				
16	1280.0	84.4	85.0	689.6	0.0	0.0				
17	1360.0	80.9	81.5	732.7	0.0	0.0				
18	1440.0	76.6	77.6	775.8	0.0	0.0				
19	1520.0	74.2	75.2	818.9	0.0	0.0				
20	1600.0	73.6	74.6	862.0	0.0	0.0				
21	1680.0	69.2	70.2	905.1	0.0	0.0				
22	1760.0	60.7	61.7	948.2	0.0	0.0				
23	1840.0	0.0	0.0	991.3	0.0	0.0				
24	1920.0	0.0	0.0	1034.4	0.0	0.0				
25	2000.0	0.0	0.0	1077.5	0.0	0.0				
26	2080.0	0.0	0.0	1120.6	0.0	0.0				
27	2160.0	0.0	0.0	1163.7	0.0	0.0				
28	2240.0	0.0	0.0	1206.8	0.0	0.0				
29	2320.0	0.0	0.0	1249.9	0.0	0.0				
30	2400.0	0.0	0.0	1293.0	0.0	0.0				
31	2480.0	0.0	0.0	1336.1	0.0	0.0				
32	2560.0	0.0	0.0	1379.2	0.0	0.0				
33	2640.0	0.0	0.0	1422.3	0.0	0.0				
34	2720.0	0.0	0.0	1465.4	0.0	0.0				
35	2800.0	0.0	0.0	1508.5	0.0	0.0				
36	2880.0	0.0	0.0	1551.6	0.0	0.0				
37	2960.0	0.0	0.0	1594.7	0.0	0.0				
38	3040.0	0.0	0.0	1637.8	0.0	0.0				
39	3120.0	0.0	0.0	1680.9	0.0	0.0				
40	3200.0	0.0	0.0	1724.0	0.0	0.0				
OASPL		118.0	110.7		86.4	57.3				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 2 PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN											
CC-5 / 123				CC-6 / 122							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	80.0	110.0	87.5	43.1	86.5	51.9					
2	160.0	110.9	97.5	86.2	78.2	55.7					
3	240.0	108.2	99.6	129.3	0.0	0.0					
4	320.0	105.0	98.4	172.4	0.0	0.0					
5	400.0	104.0	99.2	215.5	0.0	0.0					
6	480.0	104.1	100.9	258.6	0.0	0.0					
7	560.0	101.1	97.9	301.7	0.0	0.0					
8	640.0	97.8	95.9	344.8	0.0	0.0					
9	720.0	93.7	92.9	387.9	0.0	0.0					
10	800.0	93.7	92.9	431.0	0.0	0.0					
11	880.0	91.8	91.0	474.1	0.0	0.0					
12	960.0	87.9	87.9	517.2	0.0	0.0					
13	1040.0	84.2	84.2	560.3	0.0	0.0					
14	1120.0	83.2	83.2	603.4	0.0	0.0					
15	1200.0	81.2	81.8	646.5	0.0	0.0					
16	1280.0	75.4	76.0	689.6	0.0	0.0					
17	1360.0	75.6	76.2	732.7	0.0	0.0					
18	1440.0	69.0	70.0	775.8	0.0	0.0					
19	1520.0	69.3	70.3	818.9	0.0	0.0					
20	1600.0	61.3	62.3	862.0	0.0	0.0					
21	1680.0	0.0	0.0	905.1	0.0	0.0					
22	1760.0	0.0	0.0	948.2	0.0	0.0					
23	1840.0	0.0	0.0	991.3	0.0	0.0					
24	1920.0	0.0	0.0	1034.4	0.0	0.0					
25	2000.0	0.0	0.0	1077.5	0.0	0.0					
26	2080.0	0.0	0.0	1120.6	0.0	0.0					
27	2160.0	0.0	0.0	1163.7	0.0	0.0					
28	2240.0	0.0	0.0	1206.8	0.0	0.0					
29	2320.0	0.0	0.0	1249.9	0.0	0.0					
30	2400.0	0.0	0.0	1293.0	0.0	0.0					
31	2480.0	0.0	0.0	1336.1	0.0	0.0					
32	2560.0	0.0	0.0	1379.2	0.0	0.0					
33	2640.0	0.0	0.0	1422.3	0.0	0.0					
34	2720.0	0.0	0.0	1465.4	0.0	0.0					
35	2800.0	0.0	0.0	1508.5	0.0	0.0					
36	2880.0	0.0	0.0	1551.6	0.0	0.0					
37	2960.0	0.0	0.0	1594.7	0.0	0.0					
38	3040.0	0.0	0.0	1637.8	0.0	0.0					
39	3120.0	0.0	0.0	1680.9	0.0	0.0					
40	3200.0	0.0	0.0	1724.0	0.0	0.0					
OASPL		116.0	107.7		87.1	57.2					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 4 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-5 / 123				CC-6 / 122						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	80.0	114.9	92.4	43.1	84.0	49.4				
2	160.0	111.6	98.2	86.2	79.7	57.2				
3	240.0	111.9	103.3	129.3	67.0	50.9				
4	320.0	109.2	102.6	172.4	0.0	0.0				
5	400.0	107.4	102.6	215.5	0.0	0.0				
6	480.0	105.7	102.5	258.6	0.0	0.0				
7	560.0	104.6	101.4	301.7	0.0	0.0				
8	640.0	103.1	101.2	344.8	0.0	0.0				
9	720.0	99.5	98.7	387.9	0.0	0.0				
10	800.0	98.1	97.3	431.0	0.0	0.0				
11	880.0	96.4	95.6	474.1	0.0	0.0				
12	960.0	92.7	92.7	517.2	0.0	0.0				
13	1040.0	91.9	91.9	560.3	0.0	0.0				
14	1120.0	90.6	90.6	603.4	0.0	0.0				
15	1200.0	86.6	87.2	646.5	0.0	0.0				
16	1280.0	82.6	83.2	689.6	0.0	0.0				
17	1360.0	83.1	83.7	732.7	0.0	0.0				
18	1440.0	79.1	80.1	775.8	0.0	0.0				
19	1520.0	76.6	77.6	818.9	0.0	0.0				
20	1600.0	71.2	72.2	862.0	0.0	0.0				
21	1680.0	69.5	70.5	905.1	0.0	0.0				
22	1760.0	68.8	69.8	948.2	0.0	0.0				
23	1840.0	0.0	0.0	991.3	0.0	0.0				
24	1920.0	0.0	0.0	1034.4	0.0	0.0				
25	2000.0	0.0	0.0	1077.5	0.0	0.0				
26	2080.0	0.0	0.0	1120.6	0.0	0.0				
27	2160.0	0.0	0.0	1163.7	0.0	0.0				
28	2240.0	0.0	0.0	1206.8	0.0	0.0				
29	2320.0	0.0	0.0	1249.9	0.0	0.0				
30	2400.0	0.0	0.0	1293.0	0.0	0.0				
31	2480.0	0.0	0.0	1336.1	0.0	0.0				
32	2560.0	0.0	0.0	1379.2	0.0	0.0				
33	2640.0	0.0	0.0	1422.3	0.0	0.0				
34	2720.0	0.0	0.0	1465.4	0.0	0.0				
35	2800.0	0.0	0.0	1508.5	0.0	0.0				
36	2880.0	0.0	0.0	1551.6	0.0	0.0				
37	2960.0	0.0	0.0	1594.7	0.0	0.0				
38	3040.0	0.0	0.0	1637.8	0.0	0.0				
39	3120.0	0.0	0.0	1680.9	0.0	0.0				
40	3200.0	0.0	0.0	1724.0	0.0	0.0				
OASPL		119.3	111.2		85.4	58.7				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 5 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-5 / 123				CC-6 / 122						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	80.0	117.5	95.0	43.1	81.0	46.4				
2	160.0	112.7	99.3	86.2	0.0	0.0				
3	240.0	110.3	101.7	129.3	0.0	0.0				
4	320.0	113.4	106.8	172.4	0.0	0.0				
5	400.0	108.0	103.2	215.5	0.0	0.0				
6	480.0	102.5	99.3	258.6	0.0	0.0				
7	560.0	103.9	100.7	301.7	0.0	0.0				
8	640.0	102.6	100.7	344.8	0.0	0.0				
9	720.0	98.2	97.4	387.9	0.0	0.0				
10	800.0	96.0	95.2	431.0	0.0	0.0				
11	880.0	93.2	92.4	474.1	0.0	0.0				
12	960.0	92.9	92.9	517.2	0.0	0.0				
13	1040.0	90.5	90.5	560.3	0.0	0.0				
14	1120.0	86.2	86.2	603.4	0.0	0.0				
15	1200.0	84.5	85.1	646.5	0.0	0.0				
16	1280.0	84.2	84.8	689.6	0.0	0.0				
17	1360.0	78.5	79.1	732.7	0.0	0.0				
18	1440.0	75.0	76.0	775.8	0.0	0.0				
19	1520.0	74.5	75.5	818.9	0.0	0.0				
20	1600.0	70.2	71.2	862.0	0.0	0.0				
21	1680.0	62.7	63.7	905.1	0.0	0.0				
22	1760.0	0.0	0.0	948.2	0.0	0.0				
23	1840.0	0.0	0.0	991.3	0.0	0.0				
24	1920.0	0.0	0.0	1034.4	0.0	0.0				
25	2000.0	0.0	0.0	1077.5	0.0	0.0				
26	2080.0	0.0	0.0	1120.6	0.0	0.0				
27	2160.0	0.0	0.0	1163.7	0.0	0.0				
28	2240.0	0.0	0.0	1206.8	0.0	0.0				
29	2320.0	0.0	0.0	1249.9	0.0	0.0				
30	2400.0	0.0	0.0	1293.0	0.0	0.0				
31	2480.0	0.0	0.0	1336.1	0.0	0.0				
32	2560.0	0.0	0.0	1379.2	0.0	0.0				
33	2640.0	0.0	0.0	1422.3	0.0	0.0				
34	2720.0	0.0	0.0	1465.4	0.0	0.0				
35	2800.0	0.0	0.0	1508.5	0.0	0.0				
36	2880.0	0.0	0.0	1551.6	0.0	0.0				
37	2960.0	0.0	0.0	1594.7	0.0	0.0				
38	3040.0	0.0	0.0	1637.8	0.0	0.0				
39	3120.0	0.0	0.0	1680.9	0.0	0.0				
40	3200.0	0.0	0.0	1724.0	0.0	0.0				
OASPL		120.8	111.5		81.0	46.4				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 6 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN											
CC-5 / 123				CC-6 / 122							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	80.0	118.9	96.4	43.1	73.8	39.2					
2	160.0	111.2	97.8	86.2	0.0	0.0					
3	240.0	109.7	101.1	129.3	0.0	0.0					
4	320.0	110.2	103.6	172.4	0.0	0.0					
5	400.0	103.3	98.5	215.5	0.0	0.0					
6	480.0	99.8	96.6	258.6	0.0	0.0					
7	560.0	101.4	98.2	301.7	0.0	0.0					
8	640.0	94.8	92.9	344.8	0.0	0.0					
9	720.0	80.4	79.6	387.9	0.0	0.0					
10	800.0	91.3	90.5	431.0	0.0	0.0					
11	880.0	87.3	86.5	474.1	0.0	0.0					
12	960.0	80.3	80.3	517.2	0.0	0.0					
13	1040.0	80.9	80.9	560.3	0.0	0.0					
14	1120.0	77.4	77.4	603.4	0.0	0.0					
15	1200.0	65.6	66.2	646.5	0.0	0.0					
16	1280.0	0.0	0.0	689.6	0.0	0.0					
17	1360.0	0.0	0.0	732.7	0.0	0.0					
18	1440.0	0.0	0.0	775.8	0.0	0.0					
19	1520.0	0.0	0.0	818.9	0.0	0.0					
20	1600.0	0.0	0.0	862.0	0.0	0.0					
21	1680.0	0.0	0.0	905.1	0.0	0.0					
22	1760.0	0.0	0.0	948.2	0.0	0.0					
23	1840.0	0.0	0.0	991.3	0.0	0.0					
24	1920.0	0.0	0.0	1034.4	0.0	0.0					
25	2000.0	0.0	0.0	1077.5	0.0	0.0					
26	2080.0	0.0	0.0	1120.6	0.0	0.0					
27	2160.0	0.0	0.0	1163.7	0.0	0.0					
28	2240.0	0.0	0.0	1206.8	0.0	0.0					
29	2320.0	0.0	0.0	1249.9	0.0	0.0					
30	2400.0	0.0	0.0	1293.0	0.0	0.0					
31	2480.0	0.0	0.0	1336.1	0.0	0.0					
32	2560.0	0.0	0.0	1379.2	0.0	0.0					
33	2640.0	0.0	0.0	1422.3	0.0	0.0					
34	2720.0	0.0	0.0	1465.4	0.0	0.0					
35	2800.0	0.0	0.0	1508.5	0.0	0.0					
36	2880.0	0.0	0.0	1551.6	0.0	0.0					
37	2960.0	0.0	0.0	1594.7	0.0	0.0					
38	3040.0	0.0	0.0	1637.8	0.0	0.0					
39	3120.0	0.0	0.0	1680.9	0.0	0.0					
40	3200.0	0.0	0.0	1724.0	0.0	0.0					
OASPL		120.6	108.4		73.8	39.2					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 7 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-5 / 123				CC-6 / 122						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	80.0	115.5	93.0	43.1	67.8	33.2				
2	160.0	106.2	92.8	86.2	0.0	0.0				
3	240.0	103.6	95.0	129.3	0.0	0.0				
4	320.0	95.1	88.5	172.4	0.0	0.0				
5	400.0	85.8	81.0	215.5	0.0	0.0				
6	480.0	78.9	75.7	258.6	0.0	0.0				
7	560.0	73.0	69.8	301.7	0.0	0.0				
8	640.0	0.0	0.0	344.8	0.0	0.0				
9	720.0	0.0	0.0	387.9	0.0	0.0				
10	800.0	0.0	0.0	431.0	0.0	0.0				
11	880.0	0.0	0.0	474.1	0.0	0.0				
12	960.0	0.0	0.0	517.2	0.0	0.0				
13	1040.0	0.0	0.0	560.3	0.0	0.0				
14	1120.0	0.0	0.0	603.4	0.0	0.0				
15	1200.0	0.0	0.0	646.5	0.0	0.0				
16	1280.0	0.0	0.0	689.6	0.0	0.0				
17	1360.0	0.0	0.0	732.7	0.0	0.0				
18	1440.0	0.0	0.0	775.8	0.0	0.0				
19	1520.0	0.0	0.0	818.9	0.0	0.0				
20	1600.0	0.0	0.0	862.0	0.0	0.0				
21	1680.0	0.0	0.0	905.1	0.0	0.0				
22	1760.0	0.0	0.0	948.2	0.0	0.0				
23	1840.0	0.0	0.0	991.3	0.0	0.0				
24	1920.0	0.0	0.0	1034.4	0.0	0.0				
25	2000.0	0.0	0.0	1077.5	0.0	0.0				
26	2080.0	0.0	0.0	1120.6	0.0	0.0				
27	2160.0	0.0	0.0	1163.7	0.0	0.0				
28	2240.0	0.0	0.0	1206.8	0.0	0.0				
29	2320.0	0.0	0.0	1249.9	0.0	0.0				
30	2400.0	0.0	0.0	1293.0	0.0	0.0				
31	2480.0	0.0	0.0	1336.1	0.0	0.0				
32	2560.0	0.0	0.0	1379.2	0.0	0.0				
33	2640.0	0.0	0.0	1422.3	0.0	0.0				
34	2720.0	0.0	0.0	1465.4	0.0	0.0				
35	2800.0	0.0	0.0	1508.5	0.0	0.0				
36	2880.0	0.0	0.0	1551.6	0.0	0.0				
37	2960.0	0.0	0.0	1594.7	0.0	0.0				
38	3040.0	0.0	0.0	1637.8	0.0	0.0				
39	3120.0	0.0	0.0	1680.9	0.0	0.0				
40	3200.0	0.0	0.0	1724.0	0.0	0.0				
OASPL	116.3	99.0			67.8	33.2				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 9 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-5 / 123			CC-6 / 122							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	80.0	113.5	91.0	43.1	81.1	46.5				
2	160.0	109.4	96.0	86.2	0.0	0.0				
3	240.0	108.5	99.9	129.3	0.0	0.0				
4	320.0	109.8	103.2	172.4	0.0	0.0				
5	400.0	105.0	100.2	215.5	0.0	0.0				
6	480.0	103.4	100.2	258.6	0.0	0.0				
7	560.0	103.6	100.4	301.7	0.0	0.0				
8	640.0	99.0	97.1	344.8	0.0	0.0				
9	720.0	97.1	96.3	387.9	0.0	0.0				
10	800.0	97.5	96.7	431.0	0.0	0.0				
11	880.0	93.5	92.7	474.1	0.0	0.0				
12	960.0	90.7	90.7	517.2	0.0	0.0				
13	1040.0	91.4	91.4	560.3	0.0	0.0				
14	1120.0	87.6	87.6	603.4	0.0	0.0				
15	1200.0	85.6	86.2	646.5	0.0	0.0				
16	1280.0	80.6	81.2	689.6	0.0	0.0				
17	1360.0	81.2	81.8	732.7	0.0	0.0				
18	1440.0	79.3	80.3	775.8	0.0	0.0				
19	1520.0	74.0	75.0	818.9	0.0	0.0				
20	1600.0	73.4	74.4	862.0	0.0	0.0				
21	1680.0	70.7	71.7	905.1	0.0	0.0				
22	1760.0	68.5	69.5	948.2	0.0	0.0				
23	1840.0	63.8	65.0	991.3	0.0	0.0				
24	1920.0	0.0	0.0	1034.4	0.0	0.0				
25	2000.0	0.0	0.0	1077.5	0.0	0.0				
26	2080.0	0.0	0.0	1120.6	0.0	0.0				
27	2160.0	0.0	0.0	1163.7	0.0	0.0				
28	2240.0	0.0	0.0	1206.8	0.0	0.0				
29	2320.0	0.0	0.0	1249.9	0.0	0.0				
30	2400.0	0.0	0.0	1293.0	0.0	0.0				
31	2480.0	0.0	0.0	1336.1	0.0	0.0				
32	2560.0	0.0	0.0	1379.2	0.0	0.0				
33	2640.0	0.0	0.0	1422.3	0.0	0.0				
34	2720.0	0.0	0.0	1465.4	0.0	0.0				
35	2800.0	0.0	0.0	1508.5	0.0	0.0				
36	2880.0	0.0	0.0	1551.6	0.0	0.0				
37	2960.0	0.0	0.0	1594.7	0.0	0.0				
38	3040.0	0.0	0.0	1637.8	0.0	0.0				
39	3120.0	0.0	0.0	1680.9	0.0	0.0				
40	3200.0	0.0	0.0	1724.0	0.0	0.0				
OASPL		117.6	109.4		81.1	46.5				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 1 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN										
DC-1 / 115			DC-3 / 114							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	103.5	77.3	70.0	105.6	79.4				
2	120.0	93.2	77.1	140.0	98.3	82.2				
3	180.0	86.2	75.3	210.0	97.3	86.4				
4	240.0	82.4	73.8	280.0	91.2	82.6				
5	300.0	68.6	62.0	350.0	86.8	80.2				
6	360.0	71.1	66.3	420.0	73.0	68.2				
7	420.0	64.6	59.8	490.0	81.5	78.3				
8	480.0	66.4	63.2	560.0	76.8	73.6				
9	540.0	58.4	55.2	630.0	72.4	70.5				
10	600.0	0.0	0.0	700.0	65.7	63.8				
11	660.0	0.0	0.0	770.0	0.0	0.0				
12	720.0	0.0	0.0	840.0	0.0	0.0				
13	780.0	0.0	0.0	910.0	0.0	0.0				
14	840.0	0.0	0.0	980.0	0.0	0.0				
15	900.0	0.0	0.0	1050.0	0.0	0.0				
16	960.0	0.0	0.0	1120.0	0.0	0.0				
17	1020.0	0.0	0.0	1190.0	0.0	0.0				
18	1080.0	0.0	0.0	1260.0	0.0	0.0				
19	1140.0	0.0	0.0	1330.0	0.0	0.0				
20	1200.0	0.0	0.0	1400.0	0.0	0.0				
21	1260.0	0.0	0.0	1470.0	0.0	0.0				
22	1320.0	0.0	0.0	1540.0	0.0	0.0				
23	1380.0	0.0	0.0	1610.0	0.0	0.0				
24	1440.0	0.0	0.0	1680.0	0.0	0.0				
25	1500.0	0.0	0.0	1750.0	0.0	0.0				
26	1560.0	0.0	0.0	1820.0	0.0	0.0				
27	1620.0	0.0	0.0	1890.0	0.0	0.0				
28	1680.0	0.0	0.0	1960.0	0.0	0.0				
29	1740.0	0.0	0.0	2030.0	0.0	0.0				
30	1800.0	0.0	0.0	2100.0	0.0	0.0				
31	1860.0	0.0	0.0	2170.0	0.0	0.0				
32	1920.0	0.0	0.0	2240.0	0.0	0.0				
33	1980.0	0.0	0.0	2310.0	0.0	0.0				
34	2040.0	0.0	0.0	2380.0	0.0	0.0				
35	2100.0	0.0	0.0	2450.0	0.0	0.0				
36	2160.0	0.0	0.0	2520.0	0.0	0.0				
37	2220.0	0.0	0.0	2590.0	0.0	0.0				
38	2280.0	0.0	0.0	2660.0	0.0	0.0				
39	2340.0	0.0	0.0	2730.0	0.0	0.0				
40	2400.0	0.0	0.0	2800.0	0.0	0.0				
OASPL		104.0	82.4			107.1	90.4			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 2 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN										
DC-1 / 115				DC-3 / 114						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	106.4	80.2	70.0	110.5	84.3				
2	120.0	102.2	86.1	140.0	106.9	90.8				
3	180.0	96.7	85.8	210.0	103.7	92.8				
4	240.0	89.4	80.8	280.0	99.4	90.8				
5	300.0	82.6	76.0	350.0	94.4	87.8				
6	360.0	72.7	67.9	420.0	93.2	88.4				
7	420.0	75.6	70.8	490.0	89.8	86.6				
8	480.0	59.5	56.3	560.0	87.0	83.8				
9	540.0	0.0	0.0	630.0	78.1	76.2				
10	600.0	0.0	0.0	700.0	73.3	71.4				
11	660.0	0.0	0.0	770.0	67.5	66.7				
12	720.0	0.0	0.0	840.0	0.0	0.0				
13	780.0	0.0	0.0	910.0	0.0	0.0				
14	840.0	0.0	0.0	980.0	0.0	0.0				
15	900.0	0.0	0.0	1050.0	0.0	0.0				
16	960.0	0.0	0.0	1120.0	0.0	0.0				
17	1020.0	0.0	0.0	1190.0	0.0	0.0				
18	1080.0	0.0	0.0	1260.0	0.0	0.0				
19	1140.0	0.0	0.0	1330.0	0.0	0.0				
20	1200.0	0.0	0.0	1400.0	0.0	0.0				
21	1260.0	0.0	0.0	1470.0	0.0	0.0				
22	1320.0	0.0	0.0	1540.0	0.0	0.0				
23	1380.0	0.0	0.0	1610.0	0.0	0.0				
24	1440.0	0.0	0.0	1680.0	0.0	0.0				
25	1500.0	0.0	0.0	1750.0	0.0	0.0				
26	1560.0	0.0	0.0	1820.0	0.0	0.0				
27	1620.0	0.0	0.0	1890.0	0.0	0.0				
28	1680.0	0.0	0.0	1960.0	0.0	0.0				
29	1740.0	0.0	0.0	2030.0	0.0	0.0				
30	1800.0	0.0	0.0	2100.0	0.0	0.0				
31	1860.0	0.0	0.0	2170.0	0.0	0.0				
32	1920.0	0.0	0.0	2240.0	0.0	0.0				
33	1980.0	0.0	0.0	2310.0	0.0	0.0				
34	2040.0	0.0	0.0	2380.0	0.0	0.0				
35	2100.0	0.0	0.0	2450.0	0.0	0.0				
36	2160.0	0.0	0.0	2520.0	0.0	0.0				
37	2220.0	0.0	0.0	2590.0	0.0	0.0				
38	2280.0	0.0	0.0	2660.0	0.0	0.0				
39	2340.0	0.0	0.0	2730.0	0.0	0.0				
40	2400.0	0.0	0.0	2800.0	0.0	0.0				
OASPL		108.2	90.3			113.0	98.2			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 3 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN										
DC-1 / 115				DC-3 / 114						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	108.4	82.2	70.0	113.8	87.6				
2	120.0	104.0	87.9	140.0	109.4	93.3				
3	180.0	97.4	86.5	210.0	105.2	94.3				
4	240.0	90.4	81.8	280.0	100.9	92.3				
5	300.0	84.7	78.1	350.0	97.3	90.7				
6	360.0	79.6	74.8	420.0	94.9	90.1				
7	420.0	73.5	68.7	490.0	88.3	85.1				
8	480.0	73.7	70.5	560.0	84.2	81.0				
9	540.0	64.2	61.0	630.0	84.0	82.1				
10	600.0	67.8	65.9	700.0	79.0	77.1				
11	660.0	61.1	59.2	770.0	76.1	75.3				
12	720.0	55.1	54.3	840.0	65.7	64.9				
13	780.0	0.0	0.0	910.0	0.0	0.0				
14	840.0	0.0	0.0	980.0	0.0	0.0				
15	900.0	0.0	0.0	1050.0	0.0	0.0				
16	960.0	0.0	0.0	1120.0	0.0	0.0				
17	1020.0	0.0	0.0	1190.0	0.0	0.0				
18	1080.0	0.0	0.0	1260.0	0.0	0.0				
19	1140.0	0.0	0.0	1330.0	0.0	0.0				
20	1200.0	0.0	0.0	1400.0	0.0	0.0				
21	1260.0	0.0	0.0	1470.0	0.0	0.0				
22	1320.0	0.0	0.0	1540.0	0.0	0.0				
23	1380.0	0.0	0.0	1610.0	0.0	0.0				
24	1440.0	0.0	0.0	1680.0	0.0	0.0				
25	1500.0	0.0	0.0	1750.0	0.0	0.0				
26	1560.0	0.0	0.0	1820.0	0.0	0.0				
27	1620.0	0.0	0.0	1890.0	0.0	0.0				
28	1680.0	0.0	0.0	1960.0	0.0	0.0				
29	1740.0	0.0	0.0	2030.0	0.0	0.0				
30	1800.0	0.0	0.0	2100.0	0.0	0.0				
31	1860.0	0.0	0.0	2170.0	0.0	0.0				
32	1920.0	0.0	0.0	2240.0	0.0	0.0				
33	1980.0	0.0	0.0	2310.0	0.0	0.0				
34	2040.0	0.0	0.0	2380.0	0.0	0.0				
35	2100.0	0.0	0.0	2450.0	0.0	0.0				
36	2160.0	0.0	0.0	2520.0	0.0	0.0				
37	2220.0	0.0	0.0	2590.0	0.0	0.0				
38	2280.0	0.0	0.0	2660.0	0.0	0.0				
39	2340.0	0.0	0.0	2730.0	0.0	0.0				
40	2400.0	0.0	0.0	2800.0	0.0	0.0				
OASPL		110.1	91.8			115.8	100.0			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 4 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN											
DC-1 / 115				DC-3 / 114							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	110.4	84.2	70.0	115.3	89.1					
2	120.0	105.0	88.9	140.0	111.1	95.0					
3	180.0	98.5	87.6	210.0	105.5	94.6					
4	240.0	91.6	83.0	280.0	104.1	95.5					
5	300.0	86.1	79.5	350.0	98.9	92.3					
6	360.0	85.2	80.4	420.0	95.7	90.9					
7	420.0	74.5	69.7	490.0	91.4	88.2					
8	480.0	68.3	65.1	560.0	88.7	85.5					
9	540.0	72.3	69.1	630.0	84.4	82.5					
10	600.0	63.7	61.8	700.0	80.9	79.0					
11	660.0	53.3	51.4	770.0	70.9	70.1					
12	720.0	0.0	0.0	840.0	68.4	67.6					
13	780.0	0.0	0.0	910.0	0.0	0.0					
14	840.0	0.0	0.0	980.0	0.0	0.0					
15	900.0	0.0	0.0	1050.0	0.0	0.0					
16	960.0	0.0	0.0	1120.0	0.0	0.0					
17	1020.0	0.0	0.0	1190.0	0.0	0.0					
18	1080.0	0.0	0.0	1260.0	0.0	0.0					
19	1140.0	0.0	0.0	1330.0	0.0	0.0					
20	1200.0	0.0	0.0	1400.0	0.0	0.0					
21	1260.0	0.0	0.0	1470.0	0.0	0.0					
22	1320.0	0.0	0.0	1540.0	0.0	0.0					
23	1380.0	0.0	0.0	1610.0	0.0	0.0					
24	1440.0	0.0	0.0	1680.0	0.0	0.0					
25	1500.0	0.0	0.0	1750.0	0.0	0.0					
26	1560.0	0.0	0.0	1820.0	0.0	0.0					
27	1620.0	0.0	0.0	1890.0	0.0	0.0					
28	1680.0	0.0	0.0	1960.0	0.0	0.0					
29	1740.0	0.0	0.0	2030.0	0.0	0.0					
30	1800.0	0.0	0.0	2100.0	0.0	0.0					
31	1860.0	0.0	0.0	2170.0	0.0	0.0					
32	1920.0	0.0	0.0	2240.0	0.0	0.0					
33	1980.0	0.0	0.0	2310.0	0.0	0.0					
34	2040.0	0.0	0.0	2380.0	0.0	0.0					
35	2100.0	0.0	0.0	2450.0	0.0	0.0					
36	2160.0	0.0	0.0	2520.0	0.0	0.0					
37	2220.0	0.0	0.0	2590.0	0.0	0.0					
38	2280.0	0.0	0.0	2660.0	0.0	0.0					
39	2340.0	0.0	0.0	2730.0	0.0	0.0					
40	2400.0	0.0	0.0	2800.0	0.0	0.0					
OASPL		111.8	93.1		117.4	101.7					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 5 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN										
DC-1 / 115			DC-3 / 114							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	111.5	85.3	70.0	116.4	90.2				
2	120.0	105.6	89.5	140.0	112.1	96.0				
3	180.0	97.6	86.7	210.0	103.2	92.3				
4	240.0	89.3	80.7	280.0	103.2	94.6				
5	300.0	87.9	81.3	350.0	102.0	95.4				
6	360.0	78.6	73.8	420.0	95.0	90.2				
7	420.0	79.9	75.1	490.0	90.7	87.5				
8	480.0	67.0	63.8	560.0	87.0	83.8				
9	540.0	63.9	60.7	630.0	81.5	79.6				
10	600.0	60.5	58.6	700.0	74.7	72.8				
11	660.0	55.8	53.9	770.0	69.1	68.3				
12	720.0	0.0	0.0	840.0	0.0	0.0				
13	780.0	0.0	0.0	910.0	0.0	0.0				
14	840.0	0.0	0.0	980.0	0.0	0.0				
15	900.0	0.0	0.0	1050.0	0.0	0.0				
16	960.0	0.0	0.0	1120.0	0.0	0.0				
17	1020.0	0.0	0.0	1190.0	0.0	0.0				
18	1080.0	0.0	0.0	1260.0	0.0	0.0				
19	1140.0	0.0	0.0	1330.0	0.0	0.0				
20	1200.0	0.0	0.0	1400.0	0.0	0.0				
21	1260.0	0.0	0.0	1470.0	0.0	0.0				
22	1320.0	0.0	0.0	1540.0	0.0	0.0				
23	1380.0	0.0	0.0	1610.0	0.0	0.0				
24	1440.0	0.0	0.0	1680.0	0.0	0.0				
25	1500.0	0.0	0.0	1750.0	0.0	0.0				
26	1560.0	0.0	0.0	1820.0	0.0	0.0				
27	1620.0	0.0	0.0	1890.0	0.0	0.0				
28	1680.0	0.0	0.0	1960.0	0.0	0.0				
29	1740.0	0.0	0.0	2030.0	0.0	0.0				
30	1800.0	0.0	0.0	2100.0	0.0	0.0				
31	1860.0	0.0	0.0	2170.0	0.0	0.0				
32	1920.0	0.0	0.0	2240.0	0.0	0.0				
33	1980.0	0.0	0.0	2310.0	0.0	0.0				
34	2040.0	0.0	0.0	2380.0	0.0	0.0				
35	2100.0	0.0	0.0	2450.0	0.0	0.0				
36	2160.0	0.0	0.0	2520.0	0.0	0.0				
37	2220.0	0.0	0.0	2590.0	0.0	0.0				
38	2280.0	0.0	0.0	2660.0	0.0	0.0				
39	2340.0	0.0	0.0	2730.0	0.0	0.0				
40	2400.0	0.0	0.0	2800.0	0.0	0.0				
OASPL		112.7	93.0			118.2	101.8			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 6 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN											
DC-1 / 115				DC-3 / 114							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	60.0	112.1	85.9	70.0	115.9	89.7					
2	120.0	104.8	88.7	140.0	110.8	94.7					
3	180.0	95.1	84.2	210.0	101.7	90.8					
4	240.0	86.4	77.8	280.0	102.7	94.1					
5	300.0	87.3	80.7	350.0	98.0	91.4					
6	360.0	82.9	78.1	420.0	89.9	85.1					
7	420.0	75.9	71.1	490.0	88.0	84.8					
8	480.0	70.2	67.0	560.0	85.2	82.0					
9	540.0	64.6	61.4	630.0	67.2	65.3					
10	600.0	0.0	0.0	700.0	0.0	0.0					
11	660.0	0.0	0.0	770.0	0.0	0.0					
12	720.0	0.0	0.0	840.0	0.0	0.0					
13	780.0	0.0	0.0	910.0	0.0	0.0					
14	840.0	0.0	0.0	980.0	0.0	0.0					
15	900.0	0.0	0.0	1050.0	0.0	0.0					
16	960.0	0.0	0.0	1120.0	0.0	0.0					
17	1020.0	0.0	0.0	1190.0	0.0	0.0					
18	1080.0	0.0	0.0	1260.0	0.0	0.0					
19	1140.0	0.0	0.0	1330.0	0.0	0.0					
20	1200.0	0.0	0.0	1400.0	0.0	0.0					
21	1260.0	0.0	0.0	1470.0	0.0	0.0					
22	1320.0	0.0	0.0	1540.0	0.0	0.0					
23	1380.0	0.0	0.0	1610.0	0.0	0.0					
24	1440.0	0.0	0.0	1680.0	0.0	0.0					
25	1500.0	0.0	0.0	1750.0	0.0	0.0					
26	1560.0	0.0	0.0	1820.0	0.0	0.0					
27	1620.0	0.0	0.0	1890.0	0.0	0.0					
28	1680.0	0.0	0.0	1960.0	0.0	0.0					
29	1740.0	0.0	0.0	2030.0	0.0	0.0					
30	1800.0	0.0	0.0	2100.0	0.0	0.0					
31	1860.0	0.0	0.0	2170.0	0.0	0.0					
32	1920.0	0.0	0.0	2240.0	0.0	0.0					
33	1980.0	0.0	0.0	2310.0	0.0	0.0					
34	2040.0	0.0	0.0	2380.0	0.0	0.0					
35	2100.0	0.0	0.0	2450.0	0.0	0.0					
36	2160.0	0.0	0.0	2520.0	0.0	0.0					
37	2220.0	0.0	0.0	2590.0	0.0	0.0					
38	2280.0	0.0	0.0	2660.0	0.0	0.0					
39	2340.0	0.0	0.0	2730.0	0.0	0.0					
40	2400.0	0.0	0.0	2800.0	0.0	0.0					
OASPL		112.9	92.2		117.4	99.9					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 7 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN										
DC-1 / 115				DC-3 / 114						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	109.9	83.7	70.0	112.8	86.6				
2	120.0	98.3	82.2	140.0	103.5	87.4				
3	180.0	87.9	77.0	210.0	97.3	86.4				
4	240.0	77.3	68.7	280.0	81.5	72.9				
5	300.0	71.6	65.0	350.0	0.0	0.0				
6	360.0	73.3	68.5	420.0	0.0	0.0				
7	420.0	71.6	66.8	490.0	0.0	0.0				
8	480.0	67.2	64.0	560.0	0.0	0.0				
9	540.0	61.8	58.6	630.0	0.0	0.0				
10	600.0	0.0	0.0	700.0	0.0	0.0				
11	660.0	0.0	0.0	770.0	0.0	0.0				
12	720.0	0.0	0.0	840.0	0.0	0.0				
13	780.0	0.0	0.0	910.0	0.0	0.0				
14	840.0	0.0	0.0	980.0	0.0	0.0				
15	900.0	0.0	0.0	1050.0	0.0	0.0				
16	960.0	0.0	0.0	1120.0	0.0	0.0				
17	1020.0	0.0	0.0	1190.0	0.0	0.0				
18	1080.0	0.0	0.0	1260.0	0.0	0.0				
19	1140.0	0.0	0.0	1330.0	0.0	0.0				
20	1200.0	0.0	0.0	1400.0	0.0	0.0				
21	1260.0	0.0	0.0	1470.0	0.0	0.0				
22	1320.0	0.0	0.0	1540.0	0.0	0.0				
23	1380.0	0.0	0.0	1610.0	0.0	0.0				
24	1440.0	0.0	0.0	1680.0	0.0	0.0				
25	1500.0	0.0	0.0	1750.0	0.0	0.0				
26	1560.0	0.0	0.0	1820.0	0.0	0.0				
27	1620.0	0.0	0.0	1890.0	0.0	0.0				
28	1680.0	0.0	0.0	1960.0	0.0	0.0				
29	1740.0	0.0	0.0	2030.0	0.0	0.0				
30	1800.0	0.0	0.0	2100.0	0.0	0.0				
31	1860.0	0.0	0.0	2170.0	0.0	0.0				
32	1920.0	0.0	0.0	2240.0	0.0	0.0				
33	1980.0	0.0	0.0	2310.0	0.0	0.0				
34	2040.0	0.0	0.0	2380.0	0.0	0.0				
35	2100.0	0.0	0.0	2450.0	0.0	0.0				
36	2160.0	0.0	0.0	2520.0	0.0	0.0				
37	2220.0	0.0	0.0	2590.0	0.0	0.0				
38	2280.0	0.0	0.0	2660.0	0.0	0.0				
39	2340.0	0.0	0.0	2730.0	0.0	0.0				
40	2400.0	0.0	0.0	2800.0	0.0	0.0				
OASPI.		110.2	86.8			113.4	91.7			

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 9 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN									
DC-1 / 115				DC-3 / 114					
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA
1	60.0	111.3	85.1	70.0	110.4	84.2			
2	120.0	103.5	87.4	140.0	108.8	92.7			
3	180.0	96.4	85.5	210.0	100.1	89.2			
4	240.0	83.5	74.9	280.0	104.1	95.5			
5	300.0	85.8	79.2	350.0	100.3	93.7			
6	360.0	77.9	73.1	420.0	92.0	87.2			
7	420.0	70.3	65.5	490.0	89.2	86.0			
8	480.0	68.6	65.4	560.0	87.2	84.0			
9	540.0	66.6	63.4	630.0	78.6	76.7			
10	600.0	56.8	54.9	700.0	76.6	74.7			
11	660.0	0.0	0.0	770.0	75.3	74.5			
12	720.0	0.0	0.0	840.0	76.3	75.5			
13	780.0	0.0	0.0	910.0	0.0	0.0			
14	840.0	0.0	0.0	980.0	0.0	0.0			
15	900.0	0.0	0.0	1050.0	0.0	0.0			
16	960.0	0.0	0.0	1120.0	0.0	0.0			
17	1020.0	0.0	0.0	1190.0	0.0	0.0			
18	1080.0	0.0	0.0	1260.0	0.0	0.0			
19	1140.0	0.0	0.0	1330.0	0.0	0.0			
20	1200.0	0.0	0.0	1400.0	0.0	0.0			
21	1260.0	0.0	0.0	1470.0	0.0	0.0			
22	1320.0	0.0	0.0	1540.0	0.0	0.0			
23	1380.0	0.0	0.0	1610.0	0.0	0.0			
24	1440.0	0.0	0.0	1680.0	0.0	0.0			
25	1500.0	0.0	0.0	1750.0	0.0	0.0			
26	1560.0	0.0	0.0	1820.0	0.0	0.0			
27	1620.0	0.0	0.0	1890.0	0.0	0.0			
28	1680.0	0.0	0.0	1960.0	0.0	0.0			
29	1740.0	0.0	0.0	2030.0	0.0	0.0			
30	1800.0	0.0	0.0	2100.0	0.0	0.0			
31	1860.0	0.0	0.0	2170.0	0.0	0.0			
32	1920.0	0.0	0.0	2240.0	0.0	0.0			
33	1980.0	0.0	0.0	2310.0	0.0	0.0			
34	2040.0	0.0	0.0	2380.0	0.0	0.0			
35	2100.0	0.0	0.0	2450.0	0.0	0.0			
36	2160.0	0.0	0.0	2520.0	0.0	0.0			
37	2220.0	0.0	0.0	2590.0	0.0	0.0			
38	2280.0	0.0	0.0	2660.0	0.0	0.0			
39	2340.0	0.0	0.0	2730.0	0.0	0.0			
40	2400.0	0.0	0.0	2800.0	0.0	0.0			
OASPL		112.1	91.4			113.7	100.0		

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 1 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN											
DC-4 / 113				DC-2 / 111							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	35.2	80.8	41.4	60.0	104.6	78.4					
2	70.4	66.7	40.5	120.0	93.5	77.4					
3	105.6	0.0	0.0	180.0	86.9	76.0					
4	140.8	0.0	0.0	240.0	81.9	73.3					
5	176.0	0.0	0.0	300.0	74.6	68.0					
6	211.2	0.0	0.0	360.0	72.0	67.2					
7	246.4	0.0	0.0	420.0	67.4	62.6					
8	281.6	0.0	0.0	480.0	69.1	65.9					
9	316.8	0.0	0.0	540.0	67.3	64.1					
10	352.0	0.0	0.0	600.0	66.0	64.1					
11	387.2	0.0	0.0	660.0	58.1	56.2					
12	422.4	0.0	0.0	720.0	0.0	0.0					
13	457.6	0.0	0.0	780.0	0.0	0.0					
14	492.8	0.0	0.0	840.0	0.0	0.0					
15	528.0	0.0	0.0	900.0	0.0	0.0					
16	563.2	0.0	0.0	960.0	0.0	0.0					
17	598.4	0.0	0.0	1020.0	0.0	0.0					
18	633.6	0.0	0.0	1080.0	0.0	0.0					
19	668.8	0.0	0.0	1140.0	0.0	0.0					
20	704.0	0.0	0.0	1200.0	0.0	0.0					
21	739.2	0.0	0.0	1260.0	0.0	0.0					
22	774.4	0.0	0.0	1320.0	0.0	0.0					
23	809.6	0.0	0.0	1380.0	0.0	0.0					
24	844.8	0.0	0.0	1440.0	0.0	0.0					
25	880.0	0.0	0.0	1500.0	0.0	0.0					
26	915.2	0.0	0.0	1560.0	0.0	0.0					
27	950.4	0.0	0.0	1620.0	0.0	0.0					
28	985.6	0.0	0.0	1680.0	0.0	0.0					
29	1020.8	0.0	0.0	1740.0	0.0	0.0					
30	1056.0	0.0	0.0	1800.0	0.0	0.0					
31	1091.2	0.0	0.0	1860.0	0.0	0.0					
32	1126.4	0.0	0.0	1920.0	0.0	0.0					
33	1161.6	0.0	0.0	1980.0	0.0	0.0					
34	1196.8	0.0	0.0	2040.0	0.0	0.0					
35	1232.0	0.0	0.0	2100.0	0.0	0.0					
36	1267.2	0.0	0.0	2160.0	0.0	0.0					
37	1302.4	0.0	0.0	2220.0	0.0	0.0					
38	1337.6	0.0	0.0	2280.0	0.0	0.0					
39	1372.8	0.0	0.0	2340.0	0.0	0.0					
40	1408.0	0.0	0.0	2400.0	0.0	0.0					
OASPL		80.9	43.9		105.1	83.2					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 2 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN										
DC-4 / 113				DC-2 / 111						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	35.2	83.3	43.9	60.0	106.7	80.5				
2	70.4	0.0	0.0	120.0	100.8	84.7				
3	105.6	0.0	0.0	180.0	96.9	86.0				
4	140.8	0.0	0.0	240.0	88.2	79.6				
5	176.0	0.0	0.0	300.0	79.7	73.1				
6	211.2	0.0	0.0	360.0	78.6	73.8				
7	246.4	0.0	0.0	420.0	77.2	72.4				
8	281.6	0.0	0.0	480.0	68.4	65.2				
9	316.8	0.0	0.0	540.0	69.2	66.0				
10	352.0	0.0	0.0	600.0	65.6	63.7				
11	387.2	0.0	0.0	660.0	69.0	67.1				
12	422.4	0.0	0.0	720.0	61.5	60.7				
13	457.6	0.0	0.0	780.0	0.0	0.0				
14	492.8	0.0	0.0	840.0	0.0	0.0				
15	528.0	0.0	0.0	900.0	0.0	0.0				
16	563.2	0.0	0.0	960.0	0.0	0.0				
17	598.4	0.0	0.0	1020.0	0.0	0.0				
18	633.6	0.0	0.0	1080.0	0.0	0.0				
19	668.8	0.0	0.0	1140.0	0.0	0.0				
20	704.0	0.0	0.0	1200.0	0.0	0.0				
21	739.2	0.0	0.0	1260.0	0.0	0.0				
22	774.4	0.0	0.0	1320.0	0.0	0.0				
23	809.6	0.0	0.0	1380.0	0.0	0.0				
24	844.8	0.0	0.0	1440.0	0.0	0.0				
25	880.0	0.0	0.0	1500.0	0.0	0.0				
26	915.2	0.0	0.0	1560.0	0.0	0.0				
27	950.4	0.0	0.0	1620.0	0.0	0.0				
28	985.6	0.0	0.0	1680.0	0.0	0.0				
29	1020.8	0.0	0.0	1740.0	0.0	0.0				
30	1056.0	0.0	0.0	1800.0	0.0	0.0				
31	1091.2	0.0	0.0	1860.0	0.0	0.0				
32	1126.4	0.0	0.0	1920.0	0.0	0.0				
33	1161.6	0.0	0.0	1980.0	0.0	0.0				
34	1196.8	0.0	0.0	2040.0	0.0	0.0				
35	1232.0	0.0	0.0	2100.0	0.0	0.0				
36	1267.2	0.0	0.0	2160.0	0.0	0.0				
37	1302.4	0.0	0.0	2220.0	0.0	0.0				
38	1337.6	0.0	0.0	2280.0	0.0	0.0				
39	1372.8	0.0	0.0	2340.0	0.0	0.0				
40	1408.0	0.0	0.0	2400.0	0.0	0.0				
OASPL		83.3	43.9		108.1	89.9				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 3 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN											
DC-4 / 113				DC-2 / 111							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	35.2	85.3	45.9	60.0	109.5	83.3					
2	70.4	67.8	41.6	120.0	102.3	86.2					
3	105.6	0.0	0.0	180.0	96.0	85.1					
4	140.8	0.0	0.0	240.0	90.2	81.6					
5	176.0	0.0	0.0	300.0	81.5	74.9					
6	211.2	0.0	0.0	360.0	70.7	65.9					
7	246.4	0.0	0.0	420.0	72.3	67.5					
8	281.6	0.0	0.0	480.0	67.6	64.4					
9	316.8	0.0	0.0	540.0	70.9	67.7					
10	352.0	0.0	0.0	600.0	68.8	66.9					
11	387.2	0.0	0.0	660.0	64.6	62.7					
12	422.4	0.0	0.0	720.0	55.0	54.2					
13	457.6	0.0	0.0	780.0	0.0	0.0					
14	492.8	0.0	0.0	840.0	0.0	0.0					
15	528.0	0.0	0.0	900.0	0.0	0.0					
16	563.2	0.0	0.0	960.0	0.0	0.0					
17	598.4	0.0	0.0	1020.0	0.0	0.0					
18	633.6	0.0	0.0	1080.0	0.0	0.0					
19	668.8	0.0	0.0	1140.0	0.0	0.0					
20	704.0	0.0	0.0	1200.0	0.0	0.0					
21	739.2	0.0	0.0	1260.0	0.0	0.0					
22	774.4	0.0	0.0	1320.0	0.0	0.0					
23	809.6	0.0	0.0	1380.0	0.0	0.0					
24	844.8	0.0	0.0	1440.0	0.0	0.0					
25	880.0	0.0	0.0	1500.0	0.0	0.0					
26	915.2	0.0	0.0	1560.0	0.0	0.0					
27	950.4	0.0	0.0	1620.0	0.0	0.0					
28	985.6	0.0	0.0	1680.0	0.0	0.0					
29	1020.8	0.0	0.0	1740.0	0.0	0.0					
30	1056.0	0.0	0.0	1800.0	0.0	0.0					
31	1091.2	0.0	0.0	1860.0	0.0	0.0					
32	1126.4	0.0	0.0	1920.0	0.0	0.0					
33	1161.6	0.0	0.0	1980.0	0.0	0.0					
34	1196.8	0.0	0.0	2040.0	0.0	0.0					
35	1232.0	0.0	0.0	2100.0	0.0	0.0					
36	1267.2	0.0	0.0	2160.0	0.0	0.0					
37	1302.4	0.0	0.0	2220.0	0.0	0.0					
38	1337.6	0.0	0.0	2280.0	0.0	0.0					
39	1372.8	0.0	0.0	2340.0	0.0	0.0					
40	1408.0	0.0	0.0	2400.0	0.0	0.0					
OASPL		85.3	47.3		110.5	90.6					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 4 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN										
DC-4 / 113				DC-2 / 111						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	35.2	86.1	46.7	60.0	111.3	85.1				
2	70.4	58.7	32.5	120.0	104.1	88.0				
3	105.6	0.0	0.0	180.0	97.2	86.3				
4	140.8	0.0	0.0	240.0	91.0	82.4				
5	176.0	0.0	0.0	300.0	87.5	80.9				
6	211.2	0.0	0.0	360.0	84.6	79.8				
7	246.4	0.0	0.0	420.0	75.5	70.7				
8	281.6	0.0	0.0	480.0	66.3	63.1				
9	316.8	0.0	0.0	540.0	0.0	0.0				
10	352.0	0.0	0.0	600.0	0.0	0.0				
11	387.2	0.0	0.0	660.0	0.0	0.0				
12	422.4	0.0	0.0	720.0	0.0	0.0				
13	457.6	0.0	0.0	780.0	0.0	0.0				
14	492.8	0.0	0.0	840.0	0.0	0.0				
15	528.0	0.0	0.0	900.0	0.0	0.0				
16	563.2	0.0	0.0	960.0	0.0	0.0				
17	598.4	0.0	0.0	1020.0	0.0	0.0				
18	633.6	0.0	0.0	1080.0	0.0	0.0				
19	668.8	0.0	0.0	1140.0	0.0	0.0				
20	704.0	0.0	0.0	1200.0	0.0	0.0				
21	739.2	0.0	0.0	1260.0	0.0	0.0				
22	774.4	0.0	0.0	1320.0	0.0	0.0				
23	809.6	0.0	0.0	1380.0	0.0	0.0				
24	844.8	0.0	0.0	1440.0	0.0	0.0				
25	880.0	0.0	0.0	1500.0	0.0	0.0				
26	915.2	0.0	0.0	1560.0	0.0	0.0				
27	950.4	0.0	0.0	1620.0	0.0	0.0				
28	985.6	0.0	0.0	1680.0	0.0	0.0				
29	1020.8	0.0	0.0	1740.0	0.0	0.0				
30	1056.0	0.0	0.0	1800.0	0.0	0.0				
31	1091.2	0.0	0.0	1860.0	0.0	0.0				
32	1126.4	0.0	0.0	1920.0	0.0	0.0				
33	1161.6	0.0	0.0	1980.0	0.0	0.0				
34	1196.8	0.0	0.0	2040.0	0.0	0.0				
35	1232.0	0.0	0.0	2100.0	0.0	0.0				
36	1267.2	0.0	0.0	2160.0	0.0	0.0				
37	1302.4	0.0	0.0	2220.0	0.0	0.0				
38	1337.6	0.0	0.0	2280.0	0.0	0.0				
39	1372.8	0.0	0.0	2340.0	0.0	0.0				
40	1408.0	0.0	0.0	2400.0	0.0	0.0				
OASPL		86.1	46.8		112.3	92.6				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 5 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN										
DC-4 / 113				DC-2 / 111						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	35.2	85.8	46.4	60.0	112.0	85.8				
2	70.4	70.7	44.5	120.0	105.7	89.6				
3	105.6	0.0	0.0	180.0	97.0	86.1				
4	140.8	0.0	0.0	240.0	87.9	79.3				
5	176.0	0.0	0.0	300.0	87.4	80.8				
6	211.2	0.0	0.0	360.0	85.0	80.2				
7	246.4	0.0	0.0	420.0	80.4	75.6				
8	281.6	0.0	0.0	480.0	73.2	70.0				
9	316.8	0.0	0.0	540.0	71.0	67.8				
10	352.0	0.0	0.0	600.0	66.8	64.9				
11	387.2	0.0	0.0	660.0	59.9	58.0				
12	422.4	0.0	0.0	720.0	0.0	0.0				
13	457.6	0.0	0.0	780.0	0.0	0.0				
14	492.8	0.0	0.0	840.0	0.0	0.0				
15	528.0	0.0	0.0	900.0	0.0	0.0				
16	563.2	0.0	0.0	960.0	0.0	0.0				
17	598.4	0.0	0.0	1020.0	0.0	0.0				
18	633.6	0.0	0.0	1080.0	0.0	0.0				
19	668.8	0.0	0.0	1140.0	0.0	0.0				
20	704.0	0.0	0.0	1200.0	0.0	0.0				
21	739.2	0.0	0.0	1260.0	0.0	0.0				
22	774.4	0.0	0.0	1320.0	0.0	0.0				
23	809.6	0.0	0.0	1380.0	0.0	0.0				
24	844.8	0.0	0.0	1440.0	0.0	0.0				
25	880.0	0.0	0.0	1500.0	0.0	0.0				
26	915.2	0.0	0.0	1560.0	0.0	0.0				
27	950.4	0.0	0.0	1620.0	0.0	0.0				
28	985.6	0.0	0.0	1680.0	0.0	0.0				
29	1020.8	0.0	0.0	1740.0	0.0	0.0				
30	1056.0	0.0	0.0	1800.0	0.0	0.0				
31	1091.2	0.0	0.0	1860.0	0.0	0.0				
32	1126.4	0.0	0.0	1920.0	0.0	0.0				
33	1161.6	0.0	0.0	1980.0	0.0	0.0				
34	1196.8	0.0	0.0	2040.0	0.0	0.0				
35	1232.0	0.0	0.0	2100.0	0.0	0.0				
36	1267.2	0.0	0.0	2160.0	0.0	0.0				
37	1302.4	0.0	0.0	2220.0	0.0	0.0				
38	1337.6	0.0	0.0	2280.0	0.0	0.0				
39	1372.8	0.0	0.0	2340.0	0.0	0.0				
40	1408.0	0.0	0.0	2400.0	0.0	0.0				
OASPL		85.9	48.5		113.1	93.2				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 6 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN										
DC-4 / 113				DC-2 / 111						
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	35.2	85.9	46.5	60.0	111.1	84.9				
2	70.4	70.3	44.1	120.0	105.3	89.2				
3	105.6	0.0	0.0	180.0	95.3	84.4				
4	140.8	0.0	0.0	240.0	87.9	79.3				
5	176.0	0.0	0.0	300.0	83.9	77.3				
6	211.2	0.0	0.0	360.0	81.4	76.6				
7	246.4	0.0	0.0	420.0	78.3	73.5				
8	281.6	0.0	0.0	480.0	71.9	68.7				
9	316.8	0.0	0.0	540.0	65.4	62.2				
10	352.0	0.0	0.0	600.0	63.6	61.7				
11	387.2	0.0	0.0	660.0	0.0	0.0				
12	422.4	0.0	0.0	720.0	0.0	0.0				
13	457.6	0.0	0.0	780.0	0.0	0.0				
14	492.8	0.0	0.0	840.0	0.0	0.0				
15	528.0	0.0	0.0	900.0	0.0	0.0				
16	563.2	0.0	0.0	960.0	0.0	0.0				
17	598.4	0.0	0.0	1020.0	0.0	0.0				
18	633.6	0.0	0.0	1080.0	0.0	0.0				
19	668.8	0.0	0.0	1140.0	0.0	0.0				
20	704.0	0.0	0.0	1200.0	0.0	0.0				
21	739.2	0.0	0.0	1260.0	0.0	0.0				
22	774.4	0.0	0.0	1320.0	0.0	0.0				
23	809.6	0.0	0.0	1380.0	0.0	0.0				
24	844.8	0.0	0.0	1440.0	0.0	0.0				
25	880.0	0.0	0.0	1500.0	0.0	0.0				
26	915.2	0.0	0.0	1560.0	0.0	0.0				
27	950.4	0.0	0.0	1620.0	0.0	0.0				
28	985.6	0.0	0.0	1680.0	0.0	0.0				
29	1020.8	0.0	0.0	1740.0	0.0	0.0				
30	1056.0	0.0	0.0	1800.0	0.0	0.0				
31	1091.2	0.0	0.0	1860.0	0.0	0.0				
32	1126.4	0.0	0.0	1920.0	0.0	0.0				
33	1161.6	0.0	0.0	1980.0	0.0	0.0				
34	1196.8	0.0	0.0	2040.0	0.0	0.0				
35	1232.0	0.0	0.0	2100.0	0.0	0.0				
36	1267.2	0.0	0.0	2160.0	0.0	0.0				
37	1302.4	0.0	0.0	2220.0	0.0	0.0				
38	1337.6	0.0	0.0	2280.0	0.0	0.0				
39	1372.8	0.0	0.0	2340.0	0.0	0.0				
40	1408.0	0.0	0.0	2400.0	0.0	0.0				
OASPL		86.0	48.5		112.3	92.1				

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 7 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN											
DC-4 / 113				DC-2 / 111							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	35.2	82.2	42.8	60.0	105.6	79.4					
2	70.4	70.0	43.8	120.0	91.9	75.8					
3	105.6	0.0	0.0	180.0	82.7	71.8					
4	140.8	0.0	0.0	240.0	81.1	72.5					
5	176.0	0.0	0.0	300.0	65.1	58.5					
6	211.2	0.0	0.0	360.0	73.8	69.0					
7	246.4	0.0	0.0	420.0	75.0	70.2					
8	281.6	0.0	0.0	480.0	70.8	67.6					
9	316.8	0.0	0.0	540.0	63.6	60.4					
10	352.0	0.0	0.0	600.0	0.0	0.0					
11	387.2	0.0	0.0	660.0	0.0	0.0					
12	422.4	0.0	0.0	720.0	0.0	0.0					
13	457.6	0.0	0.0	780.0	0.0	0.0					
14	492.8	0.0	0.0	840.0	0.0	0.0					
15	528.0	0.0	0.0	900.0	0.0	0.0					
16	563.2	0.0	0.0	960.0	0.0	0.0					
17	598.4	0.0	0.0	1020.0	0.0	0.0					
18	633.6	0.0	0.0	1080.0	0.0	0.0					
19	668.8	0.0	0.0	1140.0	0.0	0.0					
20	704.0	0.0	0.0	1200.0	0.0	0.0					
21	739.2	0.0	0.0	1260.0	0.0	0.0					
22	774.4	0.0	0.0	1320.0	0.0	0.0					
23	809.6	0.0	0.0	1380.0	0.0	0.0					
24	844.8	0.0	0.0	1440.0	0.0	0.0					
25	880.0	0.0	0.0	1500.0	0.0	0.0					
26	915.2	0.0	0.0	1560.0	0.0	0.0					
27	950.4	0.0	0.0	1620.0	0.0	0.0					
28	985.6	0.0	0.0	1680.0	0.0	0.0					
29	1020.8	0.0	0.0	1740.0	0.0	0.0					
30	1056.0	0.0	0.0	1800.0	0.0	0.0					
31	1091.2	0.0	0.0	1860.0	0.0	0.0					
32	1126.4	0.0	0.0	1920.0	0.0	0.0					
33	1161.6	0.0	0.0	1980.0	0.0	0.0					
34	1196.8	0.0	0.0	2040.0	0.0	0.0					
35	1232.0	0.0	0.0	2100.0	0.0	0.0					
36	1267.2	0.0	0.0	2160.0	0.0	0.0					
37	1302.4	0.0	0.0	2220.0	0.0	0.0					
38	1337.6	0.0	0.0	2280.0	0.0	0.0					
39	1372.8	0.0	0.0	2340.0	0.0	0.0					
40	1408.0	0.0	0.0	2400.0	0.0	0.0					
OASPL		82.5	46.3		105.8	82.6					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 9 (PITCH ANGLE: 29.5 DEG)

DATA-POINT / RUN											
DC-4 / 113				DC-2 / 111							
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	35.2	82.8	43.4	60.0	110.1	83.9					
2	70.4	0.0	0.0	120.0	103.6	87.5					
3	105.6	0.0	0.0	180.0	95.1	84.2					
4	140.8	0.0	0.0	240.0	86.8	78.2					
5	176.0	0.0	0.0	300.0	85.9	79.3					
6	211.2	0.0	0.0	360.0	78.8	74.0					
7	246.4	0.0	0.0	420.0	71.9	67.1					
8	281.6	0.0	0.0	480.0	72.7	69.5					
9	316.8	0.0	0.0	540.0	71.5	68.3					
10	352.0	0.0	0.0	600.0	65.2	63.3					
11	387.2	0.0	0.0	660.0	0.0	0.0					
12	422.4	0.0	0.0	720.0	0.0	0.0					
13	457.6	0.0	0.0	780.0	0.0	0.0					
14	492.8	0.0	0.0	840.0	0.0	0.0					
15	528.0	0.0	0.0	900.0	0.0	0.0					
16	563.2	0.0	0.0	960.0	0.0	0.0					
17	598.4	0.0	0.0	1020.0	0.0	0.0					
18	633.6	0.0	0.0	1080.0	0.0	0.0					
19	668.8	0.0	0.0	1140.0	0.0	0.0					
20	704.0	0.0	0.0	1200.0	0.0	0.0					
21	739.2	0.0	0.0	1260.0	0.0	0.0					
22	774.4	0.0	0.0	1320.0	0.0	0.0					
23	809.6	0.0	0.0	1380.0	0.0	0.0					
24	844.8	0.0	0.0	1440.0	0.0	0.0					
25	880.0	0.0	0.0	1500.0	0.0	0.0					
26	915.2	0.0	0.0	1560.0	0.0	0.0					
27	950.4	0.0	0.0	1620.0	0.0	0.0					
28	985.6	0.0	0.0	1680.0	0.0	0.0					
29	1020.8	0.0	0.0	1740.0	0.0	0.0					
30	1056.0	0.0	0.0	1800.0	0.0	0.0					
31	1091.2	0.0	0.0	1860.0	0.0	0.0					
32	1126.4	0.0	0.0	1920.0	0.0	0.0					
33	1161.6	0.0	0.0	1980.0	0.0	0.0					
34	1196.8	0.0	0.0	2040.0	0.0	0.0					
35	1232.0	0.0	0.0	2100.0	0.0	0.0					
36	1267.2	0.0	0.0	2160.0	0.0	0.0					
37	1302.4	0.0	0.0	2220.0	0.0	0.0					
38	1337.6	0.0	0.0	2280.0	0.0	0.0					
39	1372.8	0.0	0.0	2340.0	0.0	0.0					
40	1408.0	0.0	0.0	2400.0	0.0	0.0					
OASPL		82.8	43.4		111.1	91.0					

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 8 (PITCH ANGLE: 20.7 DEG)

DATA-POINT / RUN											
BC-4 / 73				BC-5 / 72				BC-6 / 70			
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA		
1	70.0	104.3	78.1	80.0	111.1	88.6	90.0	110.2	91.1		
2	140.0	103.6	87.5	160.0	109.1	95.7	180.0	113.6	102.7		
3	210.0	100.0	89.1	240.0	109.1	100.5	270.0	114.5	105.9		
4	280.0	95.7	87.1	320.0	106.5	99.9	360.0	114.6	109.8		
5	350.0	91.3	84.7	400.0	105.6	100.8	450.0	114.8	111.6		
6	420.0	89.3	84.5	480.0	103.5	100.3	540.0	115.3	112.1		
7	490.0	86.0	82.8	560.0	101.7	98.5	630.0	115.1	113.2		
8	560.0	82.3	79.1	640.0	99.2	97.3	720.0	114.8	114.0		
9	630.0	77.2	75.3	720.0	98.7	97.9	810.0	114.7	113.9		
10	700.0	75.7	73.8	800.0	96.3	95.5	900.0	113.4	113.4		
11	770.0	72.0	71.2	880.0	93.5	92.7	990.0	112.7	112.7		
12	840.0	69.1	68.3	960.0	91.2	91.2	1080.0	112.0	112.0		
13	910.0	0.0	0.0	1040.0	88.4	88.4	1170.0	110.7	111.3		
14	980.0	0.0	0.0	1120.0	86.4	86.4	1260.0	110.2	110.8		
15	1050.0	0.0	0.0	1200.0	84.0	84.6	1350.0	108.8	109.4		
16	1120.0	0.0	0.0	1280.0	82.0	82.6	1440.0	107.2	108.2		
17	1190.0	0.0	0.0	1360.0	79.6	80.2	1530.0	106.0	107.0		
18	1260.0	0.0	0.0	1440.0	76.0	77.0	1620.0	104.7	105.7		
19	1330.0	0.0	0.0	1520.0	73.8	74.8	1710.0	103.3	104.3		
20	1400.0	0.0	0.0	1600.0	70.1	71.1	1800.0	102.1	103.3		
21	1470.0	0.0	0.0	1680.0	67.4	68.4	1890.0	101.7	102.9		
22	1540.0	0.0	0.0	1760.0	65.1	66.1	1980.0	99.4	100.6		
23	1610.0	0.0	0.0	1840.0	0.0	0.0	2070.0	99.0	100.2		
24	1680.0	0.0	0.0	1920.0	0.0	0.0	2160.0	97.9	99.1		
25	1750.0	0.0	0.0	2000.0	0.0	0.0	2250.0	96.0	97.3		
26	1820.0	0.0	0.0	2080.0	0.0	0.0	2340.0	96.1	97.4		
27	1890.0	0.0	0.0	2160.0	0.0	0.0	2430.0	95.2	96.5		
28	1960.0	0.0	0.0	2240.0	0.0	0.0	2520.0	93.8	95.1		
29	2030.0	0.0	0.0	2320.0	0.0	0.0	2610.0	95.5	96.8		
30	2100.0	0.0	0.0	2400.0	0.0	0.0	2700.0	93.8	95.1		
31	2170.0	0.0	0.0	2480.0	0.0	0.0	2790.0	93.8	95.1		
32	2240.0	0.0	0.0	2560.0	0.0	0.0	2880.0	94.3	95.5		
33	2310.0	0.0	0.0	2640.0	0.0	0.0	2970.0	92.8	94.0		
34	2380.0	0.0	0.0	2720.0	0.0	0.0	3060.0	92.7	93.9		
35	2450.0	0.0	0.0	2800.0	0.0	0.0	3150.0	92.8	94.0		
36	2520.0	0.0	0.0	2880.0	0.0	0.0	3240.0	91.3	92.5		
37	2590.0	0.0	0.0	2960.0	0.0	0.0	3330.0	91.2	92.4		
38	2660.0	0.0	0.0	3040.0	0.0	0.0	3420.0	91.0	92.2		
39	2730.0	0.0	0.0	3120.0	0.0	0.0	3510.0	88.8	90.0		
40	2800.0	0.0	0.0	3200.0	0.0	0.0	3600.0	88.7	89.7		
OASPI		108.2	94.6			116.4	108.8			125.5	123.8

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

DNW PROPELLER NOISE TEST

MICROPHONE: MP 8 (PITCH ANGLE: 24.4 DEG)

DATA-POINT / RUN										
CC-3 / 119				CC-4 / 120				CC-5 / 123		
HN	F	SPL	SPLA	F	SPL	SPLA	F	SPL	SPLA	
1	60.0	105.5	79.3	70.0	109.8	83.6	80.0	112.5	90.0	
2	120.0	99.8	83.7	140.0	108.5	92.4	160.0	111.2	97.8	
3	180.0	91.5	80.6	210.0	104.5	93.6	240.0	111.2	102.6	
4	240.0	0.0	0.0	280.0	99.5	90.9	320.0	108.0	101.4	
5	300.0	0.0	0.0	350.0	95.0	88.4	400.0	107.3	102.5	
6	360.0	0.0	0.0	420.0	93.0	88.2	480.0	105.3	102.1	
7	420.0	0.0	0.0	490.0	89.6	86.4	560.0	103.1	99.9	
8	480.0	0.0	0.0	560.0	84.4	81.2	640.0	101.2	99.3	
9	540.0	0.0	0.0	630.0	79.9	78.0	720.0	100.1	99.3	
10	600.0	0.0	0.0	700.0	77.7	75.8	800.0	97.5	96.7	
11	660.0	0.0	0.0	770.0	74.9	74.1	880.0	95.3	94.5	
12	720.0	0.0	0.0	840.0	69.7	68.9	960.0	93.1	93.1	
13	780.0	0.0	0.0	910.0	0.0	0.0	1040.0	90.5	90.5	
14	840.0	0.0	0.0	980.0	0.0	0.0	1120.0	89.1	89.1	
15	900.0	0.0	0.0	1050.0	0.0	0.0	1200.0	85.5	86.1	
16	960.0	0.0	0.0	1120.0	0.0	0.0	1280.0	83.5	84.1	
17	1020.0	0.0	0.0	1190.0	0.0	0.0	1360.0	81.0	81.6	
18	1080.0	0.0	0.0	1260.0	0.0	0.0	1440.0	77.1	78.1	
19	1140.0	0.0	0.0	1330.0	0.0	0.0	1520.0	74.8	75.8	
20	1200.0	0.0	0.0	1400.0	0.0	0.0	1600.0	71.6	72.6	
21	1260.0	0.0	0.0	1470.0	0.0	0.0	1680.0	0.0	0.0	
22	1320.0	0.0	0.0	1540.0	0.0	0.0	1760.0	0.0	0.0	
23	1380.0	0.0	0.0	1610.0	0.0	0.0	1840.0	0.0	0.0	
24	1440.0	0.0	0.0	1680.0	0.0	0.0	1920.0	0.0	0.0	
25	1500.0	0.0	0.0	1750.0	0.0	0.0	2000.0	0.0	0.0	
26	1560.0	0.0	0.0	1820.0	0.0	0.0	2080.0	0.0	0.0	
27	1620.0	0.0	0.0	1890.0	0.0	0.0	2160.0	0.0	0.0	
28	1680.0	0.0	0.0	1960.0	0.0	0.0	2240.0	0.0	0.0	
29	1740.0	0.0	0.0	2030.0	0.0	0.0	2320.0	0.0	0.0	
30	1800.0	0.0	0.0	2100.0	0.0	0.0	2400.0	0.0	0.0	
31	1860.0	0.0	0.0	2170.0	0.0	0.0	2480.0	0.0	0.0	
32	1920.0	0.0	0.0	2240.0	0.0	0.0	2560.0	0.0	0.0	
33	1980.0	0.0	0.0	2310.0	0.0	0.0	2640.0	0.0	0.0	
34	2040.0	0.0	0.0	2380.0	0.0	0.0	2720.0	0.0	0.0	
35	2100.0	0.0	0.0	2450.0	0.0	0.0	2800.0	0.0	0.0	
36	2160.0	0.0	0.0	2520.0	0.0	0.0	2880.0	0.0	0.0	
37	2220.0	0.0	0.0	2590.0	0.0	0.0	2960.0	0.0	0.0	
38	2280.0	0.0	0.0	2660.0	0.0	0.0	3040.0	0.0	0.0	
39	2340.0	0.0	0.0	2730.0	0.0	0.0	3120.0	0.0	0.0	
40	2400.0	0.0	0.0	2800.0	0.0	0.0	3200.0	0.0	0.0	
OASPL		106.7	86.4		113.2	98.8		118.1	110.5	

F - FREQUENCY HZ

SPL - SOUND PRESSURE LEVEL DB RE 2E-5 PA

SPLA - A-WEIGHTED SOUND PRESSURE LEVEL DBA RE 2E-5 PA

7. Comments on Data Interpretation

In the preceeding chapters acoustic as-measured data are presented in terms of pressure-time histories and narrow-band spectra for all microphone positions MP 1 to MP 9*.

As stated in the "Executive Report" to this Appendix all data have been analysed regardless of occasional microphone drop-outs or the occurrence of external pressure disturbances which may distort the propeller noise-signature completely.

To avoid erroneous data interpretation, the following list summarizes all those data-points (within the total test-program) which should be deleted with respect to the microphone position indicated:

Microphone Position MP 3:

Delete analyses of Data Points BC-4
 BC-5.

Microphone Position MP 6:

Subprogram	Delete analyses of Data Points
Basic Program	AN-1,2,3,4,5,7; BN-1,2,3,4,5,6,61,7 BC-1,2,3,4,5,6,61,7
Temperature Effect	HN-3; IN-1,2,3; JN-1,2,3; KN-1,2 HC-1,2; IC-1,2,3;
Attitude Effect	-
Installation Effect	FNC-7,8,9,10,11,12

* MP 8 has only been analysed for data points within the "Attitude-effect" test-program.

In addition, noise data acquired at microphone position MP 7 should be interpreted with care for such data-points which combine low propeller rotational speeds with high tunnel flow-velocities. Respective data are often disturbed due to the effects of microphone vibration. In each of these cases the respective averaged pressure-time history and the corresponding level-spectrum should be inspected carefully. If both data representations do not exhibit any periodic behaviour the respective analysis should not be interpreted.

On top of the averaged pressure-time history plot the number of averages as well as the magnitude of "disturbance-pressure-amplitudes" (which have been detected and deleted within the analysed time-interval) are indicated, the latter by ΔP . In case of completely distorted propeller noise signatures, ΔP generally assumes values of 496% (referenced to the minimum peak-to-peak pressure amplitude within the total number of propeller revolutions analysed). If even higher disturbance amplitudes occur, respective data analyses are marked by $\Delta P > ***$ and should be deleted. Lists of harmonic levels in this case often contain just one level-value for the fundamental frequency ($HN=1$) which then however has no physical meaning.

Therefore, data interpretation should not be solely based on the listing of harmonic levels. In particular, if only one harmonic level at $HN=1$ is listed, a careful inspection of the respective level-spectrum (as calculated from the averaged time-history) is necessary to ensure the physical relevance of this harmonic level.