R1154

GE Nuclear Energy

GERIS 2000 Examination Summary Sheet

Project: TVA, Browns Ferry Nuclear Plant, Unit 3

System: Reactor Pressure Vessel

Weld ID: C-2-3 **ASME Code Category:** B-A

Calibration Sheets: C-004 AND C-003 CAL 11/25/94

Supporting Data: Examination Data Sheets E-08-00 thru E-08-26, Indication Data Sheets 08-001 thru 08-110, Indication Evaluation Sheets, Screen Prints, Exam Patch Location Map, Exam Coverage Plots and GERIS 2000 Setup Records.

Examination Summary

The ultrasonic examination of weld C-2-3 resulted in two (2) recorded indications that exceed the allowable standards of IWB-3500, ASME Section XI, 1986 Edition, No Addenda.

The ASME Section XI required examination volume was examined with the GERIS 2000 System from the RPV inside surface utilizing Procedure No. GE-UT-700, Rev. 2. This examination was limited due to the core spray downcomers and surveillance specimen brackets. The total examination coverage was calculated to be 80%.

The GERIS 2000 utilizes an array of search units arranged to effectively examine the weld and adjacent base material parallel and perpendicular to the weld axis in two directions. The transducer package consisted of 0° longitudinal, 45° and 60° shear wave, and 70° refracted longitudinal (RL) wave search units.

The two (2) unacceptable indications were recorded and sized in accordance with GE-UT-700, Rev. 2 and GE-UT-701, Rev. 2 with the results tabulated below:

Ind. No.	Oriented	Type	X Pos	Y Pos	Z Pos	"S"	T wall	Length	T Meas	a/l	% a/t Calculated	% a/t Allowed
08-026	circ.	subsurface	198.50"	392.42"	1.77"	1.56"	.41"	1.50"	6.60"	.137	3.11	2.79
08-067	circ.	subsurface	558.25"	392.85"	1.65"	1.47"	.37"	1.50"	6.55"	.123	2.82	2.68

Indication 08-026 was sized with 60° shear wave channel 11 utilizing the PATT technique. This indication was also recorded with 70°RL channel 3 as 08-023 and seen with 45° shear wave channel 7.

Indication 08-067 was sized with 70°RL channel 3 utilizing the PATT technique. This indication was also recorded with 45° shear wave channel 7 as 08-073 and seen with 60° shear wave channel 11.

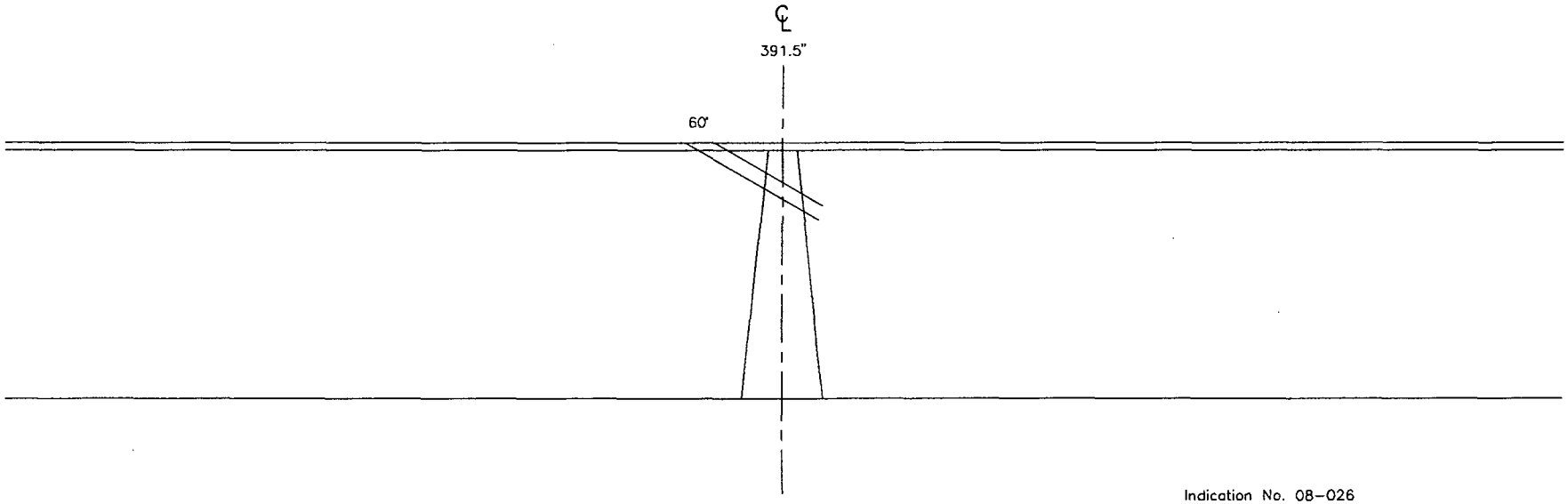
The GERIS 2000 also recorded indications with the 0° weld metal scans, 70°RL, 45° and 60° shear wave scans that were evaluated and found to be acceptable per the referencing Code section.

No manual supplemental examination was performed from the RPV outside surface due to access restrictions.

Fabrication records and previous examination results were reviewed prior to the completion of this examination summary.

GERIS Analyst: Teresa Kimball	GE Reviewer: R.O. Forman
LEVEL: III DATE: 12-19-93	LEVEL: II DATE: 12.20.93
UTILITY Review: 2R Woody	ANII Review:
TITLE: IV DATE: 1/26/94	TITLE: Albert Ladd DATE: 7/12/94

00001 1 OF 276



Indication No. 08-026

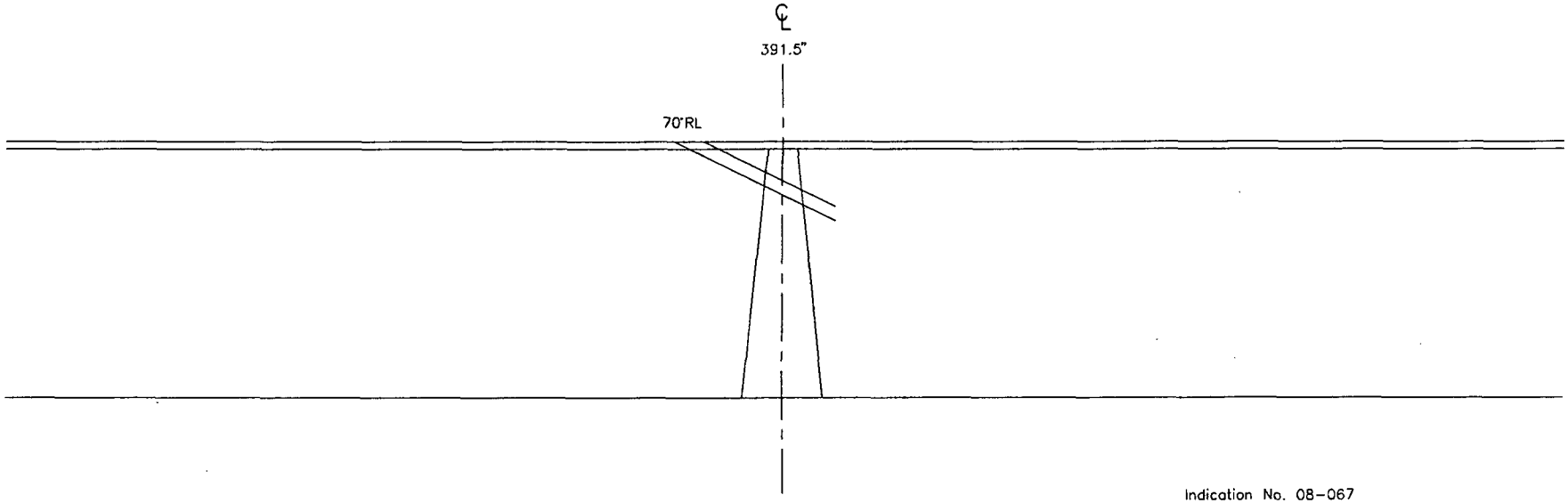
Flaw "X" location	198.50"
Flaw "Y" location	392.42"
Flaw Thruwall	.41"
Flaw Length	1.50"
"T" Measured	6.60"

This indication confirmed with channels 3 and 7

Nominal Clad T = 3/16"
Nominal Base Metal T = 6 3/8"

GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	WELD C-2-3 Ind. 08-026	SCALE: NONE	DWG. BF3C231	REV. 0

20002
2 OF 276
R1154



Indication No. 08-067

Flaw "X" location	558.25"
Flaw "Y" location	392.85"
Flaw Thruwall	.37"
Flaw Length	1.50"
"T" Measured	6.55"

Nominal Clad T = 3/16"
Nominal Base Metal T = 6 3/8"

This indication confirmed with channels 7 and 11

GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	WELD C-2-3 Ind. 08-067	SCALE: NONE	DWG. BF3C231	REV. 0

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Exam Data Sheet: C-003 and C-004

Procedure No.: GE-UT-700
Revision No.: 2
FRR No.: N/A

Patch	Data Sh.	Date	Start	Stop	Min X	Max X	Min Y	Max Y	Disk No.	Examiner
BF-073	E-08-01	10/23/93	1119	1135	30.75	53.00	378.00	390.00	91A	ROF
BF-074	E-08-02	9/30/93	1619	1650	78.75	124.00	378.00	390.00	13A	ROF
BF-075	E-08-03	10/2/93	0300	0328	124.25	170.00	378.00	390.00	13A	JCG
BF-076	E-08-04	10/2/93	0406	0435	170.25	216.00	378.00	390.00	13A	JCG
BF-077	E-08-05	10/2/93	0840	0902	216.25	250.25	378.00	390.00	13A	ROF
BF-078	E-08-06	10/23/93	1152	1226	275.50	321.25	378.00	390.00	91A	ROF
BF-079	E-08-07	10/23/93	1407	1433	321.50	363.50	378.00	390.00	91A	ROF
BF-080	E-08-08	10/23/93	1306	1336	425.00	470.75	378.00	390.00	91A	ROF
BF-081	E-08-09	10/23/93	1450	1518	471.00	516.75	378.00	390.00	91A	ROF
BF-082	E-08-10	10/23/93	1533	1608	517.00	562.75	378.00	390.00	91B	ROF
BF-083	E-08-11	10/23/93	1623	1651	563.00	608.75	378.00	390.00	91B	ROF
BF-084	E-08-12	10/23/93	1709	1733	609.00	644.50	378.00	390.00	91B	ROF
BF-085	E-08-13	10/23/93	1746	1817	669.50	715.50	378.00	390.00	91B	ROF
BF-086	E-08-14	10/23/93	1829	1858	715.50	757.50	378.00	390.00	92A	ROF
BF-061	E-08-15	10/25/93	2205	2308	29.00	58.00	382.50	405.75	95A	JCG
BF-062	E-08-16	10/26/93	0003	0201	73.25	133.00	382.50	405.75	95B	JCG
BF-063	E-08-17	10/26/93	0341	0540	133.25	193.00	382.50	405.75	96A	JCG
BF-064	E-08-18	10/26/93	0551	0813	193.25	255.25	382.50	405.75	96B	JCG/ROF
BF-065	E-08-19	10/26/93	0858	1057	270.50	330.25	382.50	405.75	97A	ROF
BF-066	E-08-20	10/26/93	1105	1228	330.50	367.50	382.50	405.75	97B	ROF
BF-067	E-08-21	10/26/93	1413	1609	424.00	479.75	382.50	405.75	100A	ROF
BF-068	E-08-22	10/26/93	1614	1814	480.00	539.75	382.50	405.75	100B	ROF
BF-069	E-08-23	10/26/93	1826	2027	540.00	599.75	382.50	405.75	101A	ROF/JCG
BF-070	E-08-24	10/26/93	2043	2223	600.00	649.50	382.50	405.75	102A	JCG
BF-071	E-08-25	10/27/93	0016	0215	664.50	724.50	382.50	405.75	102B	JCG
BF-072	E-08-26	10/27/93	0230	0345	724.50	760.50	382.50	405.75	101B	JCG

Comments: N/A

Limitations: BF-061, BF-066, BF-067, BF-072, BF-073, BF-079, BF-080 and BF-086 limited due to the Core Spray Downcomers.

BF-061, BF-062, BF-064, BF-065, BF-070, BF-071, BF-073, BF-074, BF-077, BF-078, BF-084 and BF-085 limited due to the Surveillance Specimen Brackets.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-20-93

R 1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-01
Patch ID: BF-073
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R. O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-02
Patch ID: BF-074
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-03
Patch ID: BF-075
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: [illegible] Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-04
Patch ID: BF-076
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

EXAM-DS2 V.1 9/28/93

E-08-04.XLS

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-05
Patch ID: BF-077
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R 1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-06
Patch ID: BF-078
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	2	08-001	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-07
Patch ID: BF-079
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number

Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R 1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-08
Patch ID: BF-080
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project:	TVA, Browns Ferry, Unit 3	**Exam Data Sheet No.:**	E-08-09
Weld ID:	C-2-3	**Patch ID:**	BF-081
Cal. ID:	C-003	**Ind. Data Sheet Series:**	08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number

Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball

Level: III Date: 12-18-93

Reviewed By: R.O. Forman

Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-10
Patch ID: BF-082
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R. O. Forman
Level: II Date: 12-18-93

14 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-11
Patch ID: BF-083
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number

Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: [illegible] Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

15 of 276

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-12
Patch ID: BF-084
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	5	* G-109	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: 5 = Typical non-relevant reflector pattern due to clad surface.
* (Print only)

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R. O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-13
Patch ID: BF-085
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	5	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: 5 = Typical non-relevant reflector pattern due to clad surface.
(similar to G-109)

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Louise Kimball
Level: III Date: 12-18-93

Reviewed By:
Level: III Date: 1/25/94

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-003

Exam Data Sheet No.: E-08-14
Patch ID: BF-086
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	5	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: 5 = Typical non-relevant reflector pattern due to clad surface.
(similar to G-109)

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III
Date: 12-18-93

Reviewed By:
Level: III
Date: 1/25/94

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-15
Patch ID: BF-061
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	1	08-002	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1	08-003	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1	08-004	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project:	TVA, Browns Ferry, Unit 3	***Exam Data Sheet No.:***	E-08-16
Weld ID:	C-2-3	***Patch ID:***	BF-062
Cal. ID:	C-004	***Ind. Data Sheet Series:***	08-XXX

Channel	*Angle*	*Direction*	*Ind.*	*Ind. Data Sh.*	*Ind. Data Sh.*	*Ind. Data Sh.*	*Ind. Data Sh.*	*Ind. Data Sheet*
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	1	08-005	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1	08-006	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	1	08-007	08-008	08-009	08-010	08-011
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1	08-012	08-013	08-014	08-015	08-016
				08-017	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number

Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball		Reviewed By: R.O. Forman	
Level: III	Date: 12-18-93	Level: II	Date: 12-18-93

B1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project:	TVA, Browns Ferry, Unit 3	**Exam Data Sheet No.:**	E-08-17
Weld ID:	C-2-3	**Patch ID:**	BF-063
Cal. ID:	C-004	**Ind. Data Sheet Series:**	08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	1	08-018	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	1	08-019	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1	08-020	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	1	08-021	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number

Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball	Reviewed By: R.O. Forman
Level: III Date: 12-18-93	Level: II Date: 12-18-93

B1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-18
Patch ID: BF-064
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	1	08-022	~	~	~	~
2	0 WM	N/A	*	~	~	~	~	~
3	70 RL	0 UP	1	08-023	08-024	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1	08-025	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	1	08-026	08-027	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: * Indication 08-022 also seen with ch. 2.

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-19
Patch ID: BF-065
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	1	08-028	08-033	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	1	08-035	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	3	08-038	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1, 3	08-039	08-040	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	1, 3	08-041	08-042	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1, 3	08-043	08-044	08-045	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Debra Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project:	TVA, Browns Ferry, Unit 3	**Exam Data Sheet No.:**	E-08-06
Weld ID:	C-2-3	**Patch ID:**	BF-078
Cal. ID:	C-003	**Ind. Data Sheet No.:**	08-001

Indication: 08-001 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
50.2%	296.60	~	~	~	~	384.05	11.60	~	~	~	~	~
68.7%	296.85	~	~	383.80	11.86	384.05	11.60	~	~	~	~	~
77.9%	297.10	~	~	383.55	12.03	383.80	11.81	384.05	11.60	~	~	~
50.2%	297.35	~	~	~	~	383.80	11.86	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: OD surface indication. No apperant tip signals.
Thruwall size was determined by the ASME 50% method.
+1.09 dB above notch sensitivity.
This indication also seen with Ch. 7 at below recordable levels.
(Could not max indication due to end of scan.)
TW = 0.22 L = 0.75 S = 0.00

Analyst: Deena Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-078

Exam Data Sheet No.: E-08-06
Ind. Data Sheet No.: 08-001
Indication: 08-001

Flaw Thruwall Dimension =	0.22
Flaw Length "l" =	0.75
Separation with clad "S" =	N/A
Surface Separation "S" =	0.00

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	3.67	4.24 Y
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			3.67	0.00

a =	0.215
a/l value =	0.287
Y =	0.000

Flaw is Surface

Allowed a/t =	3.67%
a/t =	3.37%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-15
Patch ID: BF-061
Ind. Data Sheet No.: 08-002

Indication: 08-002 ***Channel:*** 5 ***Angle:*** 70 ***Direction:*** 180

Amp.	*X*	*20% Min Y*	*TOF*	*50% Min Y*	*TOF*	*@ Max Y*	*TOF*	*50% Max Y*	*TOF*	*20% Max Y*	*TOF*	*Remarks*
26.9%	28.90	~	~	~	~	394.30	18.64	~	~	~	~	~
22.3%	29.15	~	~	~	~	394.30	18.64	~	~	~	~	~
20.9%	29.40	~	~	~	~	394.30	18.80	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-15
Patch ID: BF-061
Ind. Data Sheet No.: 08-003

Indication: 08-003 **Channel:** 9 **Angle:** 45 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
32.4%	30.50	~	~	397.75	7.19	398.25	7.56	399.00	8.13	~	~	~
19.6%	30.75	~	~	398.00	7.37	398.25	7.56	398.50	7.75	~	~	~
13.5%	31.00	~	~	~	~	398.25	7.56	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.283 L = 0.5 S = 1.11

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-061

Exam Data Sheet No.: E-08-15
Ind. Data Sheet No.: 08-003
Indication: 08-003

Flaw Thruwall Dimension =	0.28
Flaw Length "l" =	0.50
Separation with clad "S" =	N/A
Surface Separation "S" =	1.11

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	3.63	4.20 Y
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			3.63	4.20

a =	0.142
a/l value =	0.283
Y =	1.000

Flaw is Subsurface

Allowed a/t =	4.20%
a/t =	2.22%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-15
Patch ID: BF-061
Ind. Data Sheet No.: 08-004

Indication: 08-004 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
16.3%	38.50	~	~	395.00	3.02	395.50	3.40	396.00	3.96	~	~	~
22.3%	38.75	~	~	395.00	3.02	395.50	3.47	396.25	4.20	~	~	~
17.3%	39.00	~	~	395.00	3.02	395.50	3.50	396.25	4.25	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.46 L = 0.5 S = 1.51 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

29 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-061

Exam Data Sheet No.: E-08-15
Ind. Data Sheet No.: 08-004
Indication: 08-004

Flaw Thruwall Dimension =	0.46	***T nominal =***	6.38
Flaw Length "l" =	0.50	***Clad T nominal =***	0.19
Separation with clad "S" =	1.51	***% of Allowable:***	0.52
Surface Separation "S" =	1.32		

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	5.12	6.88 Y
0.50	5.20	7.6	~	~
			Allowed	Allowed
			5.12	6.88

a =	0.230
a/l value =	0.460
Y =	1.000

Flaw is Subsurface

Allowed a/t =	6.88%
a/t =	3.61%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-005

Indication: 08-005 **Channel:** 5 **Angle:** 70 **Direction:** 180

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
28.6%	85.65	~	~	~	~	395.30	27.44	~	~	~	~	~
30.4%	85.90	~	~	~	~	395.30	27.20	~	~	~	~	~
22.3%	86.15	~	~	~	~	395.30	27.36	~	~	~	~	~
11.9%	86.40	~	~	~	~	395.30	27.28	~	~	~	~	~
20.1%	86.65	~	~	~	~	395.55	29.04	~	~	~	~	~
30.4%	86.90	~	~	~	~	395.30	26.72	~	~	~	~	~
60.6%	87.15	~	~	~	~	395.30	26.72	~	~	~	~	~
68.7%	87.40	~	~	~	~	395.30	26.80	~	~	~	~	~
22.3%	87.65	~	~	~	~	395.30	26.88	~	~	~	~	~
13.5%	87.90	~	~	~	~	395.30	27.36	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorded with Ch. 11 (08-009) and Ch. 13 (08-013).
Thruwall size was determined by the PATT technique.

TW = 0.09 L = 2.5 S = 1.134 w/clad

Analyst: Teresa Kimball
Level: III Date: 12.18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

EXAM-DS3 V.2 10/22/93

12/18/9308-005.XLS

31 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-062

Exam Data Sheet No.: E-08-16
Ind. Data Sheet No.: 08-005
Indication: 08-005

Flaw Thruwall Dimension =	0.09	***T nominal =***	6.38
Flaw Length "l" =	2.50	***Clad T nominal =***	0.19
Separation with clad "S" =	1.13	***% of Allowable:***	0.35
Surface Separation "S" =	0.94		

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	1.90	2.00 Y
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			1.90	2.00

a =	0.045
a/l value =	0.018
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.00%
a/t =	0.71%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-006

Indication: 08-006 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
17.3%	105.35	~	~	388.75	4.63	389.25	4.23	389.50	4.05	~	~	~
11.9%	105.60	~	~	388.75	4.63	389.00	4.42	389.50	4.05	~	~	~
6.8%	105.85	~	~	~	~	389.25	4.23	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.311 L = 0.75 S = 2.84 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-062

Exam Data Sheet No.: E-08-16
Ind. Data Sheet No.: 08-006
Indication: 08-006

Flaw Thruwall Dimension =	0.31
Flaw Length "l" =	0.75
Separation with clad "S" =	2.84
Surface Separation "S" =	2.65

T nominal =	6.38
Clad T nominal =	0.19
% of Allowable:	0.72

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	2.87	3.37 Y
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.87	3.37

a =	0.156
a/l value =	0.207
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.37%
a/t =	2.44%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-007

Indication: 08-007
Channel: 11
Angle: 60
Direction: 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
39.1%	85.50	390.25	3.06	~	~	390.50	2.84	~	~	391.00	2.39	~
60.6%	85.75	390.00	3.31	390.25	3.05	390.50	2.84	390.75	2.61	391.25	2.33	~
34.5%	86.00	390.25	3.06	~	~	390.50	2.82	~	~	391.00	2.39	~
25.2%	86.25	~	~	~	~	390.75	2.62	~	~	390.50	2.84	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: This indication also seen with Ch. 13 (see 08-012).
Thruwall size was determined by the ASME 50% method.

TW = 0.22 L = 0.75 S = 1.31 w/clad

Analyst: Alisa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

EXAM-DS3 V.2 10/22/93

12/17/9308-007.XLS

35 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-062

Exam Data Sheet No.: E-08-16
Ind. Data Sheet No.: 08-007
Indication: 08-007

Flaw Thruwall Dimension =	0.22
Flaw Length "l" =	0.75
Separation with clad "S" =	1.31
Surface Separation "S" =	1.12

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	2.48	2.87 Y
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.48	2.87

a =	0.110
a/l value =	0.147
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.87%
a/t =	1.72%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-008

Indication: 08-008 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
32.4%	105.50	~	~	~	~	388.00	5.17	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.
Flaw length of 0.25" assigned for single increment indications.

TW = 0.5 L = 0.25 S = 2.335 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

37 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-062

Exam Data Sheet No.: E-08-16
Ind. Data Sheet No.: 08-008
Indication: 08-008

Flaw Thruwall Dimension =	0.50
Flaw Length "l" =	0.25
Separation with clad "S" =	2.34
Surface Separation "S" =	2.15

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	5.20	7.60 Y
			Allowed	Allowed
			5.20	7.60

a =	0.250
a/l value =	0.500
Y =	1.000

Flaw is Subsurface

Allowed a/t =	7.60%
a/t =	3.92%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-009

Indication: 08-009 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
26.9%	86.75	391.25	2.17	~	~	391.50	1.98	~	~	~	~	~
30.4%	87.00	391.25	2.19	~	~	391.50	2.00	~	~	~	~	~
34.5%	87.25	391.00	2.43	~	~	391.50	1.98	~	~	~	~	~
25.2%	87.50	391.25	2.13	~	~	391.50	1.90	~	~	391.75	1.68	~
23.7%	87.75	390.50	2.20	~	~	390.75	2.60	~	~	391.00	2.39	~
16.3%	88.00	~	~	~	~	390.75	2.55	~	~	~	~	~
15.3%	88.25	~	~	~	~	391.25	2.10	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	Lost
28.6%	88.75	391.00	2.39	~	~	391.50	1.93	~	~	~	~	~
34.5%	89.00	390.75	2.60	~	~	391.25	2.15	~	~	391.75	1.68	~
34.5%	89.25	390.75	2.62	~	~	391.25	2.15	~	~	391.75	1.77	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorded with Ch. 5 (08-005) and Ch. 13 (08-013).
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall and is acceptable to IWB-3510.

TW = 0 L = 2.5 S = 0.99 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-~~24~~ 18 93
ROF 12-18-93

EXAM-DS3 V.2 10/22/93

39 of 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-010

Indication: 08-010 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
41.6%	91.75	391.25	1.86	~	~	391.75	1.37	~	~	~	~	~
30.4%	92.00	391.25	1.86	~	~	391.50	1.64	~	~	391.75	1.59	~
44.3%	92.25	391.25	1.84	~	~	391.75	1.33	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	Lost
7.7%	93.50	~	~	~	~	390.50	2.39	~	~	~	~	~
13.5%	93.25	~	~	~	~	390.25	2.62	~	~	~	~	~
10.5%	93.50	~	~	~	~	391.00	2.37	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

TW = 0 L = 1.75 S = 0.598 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

40 OF 274

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-011

Indication: 08-011 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
16.3%	94.50	~	~	~	~	390.50	3.15	~	~	~	~	~
16.3%	94.75	~	~	~	~	390.75	2.68	~	~	~	~	~
20.9%	95.00	390.50	2.88	~	~	390.75	2.66	~	~	391.00	2.41	~
16.3%	95.25	~	~	~	~	390.75	2.62	~	~	~	~	~
18.5%	95.50	~	~	~	~	391.50	1.96	~	~	~	~	~
26.9%	95.75	390.00	3.31	~	~	391.50	1.96	~	~	~	~	~
22.3%	96.00	390.25	3.09	~	~	390.50	2.83	~	~	390.75	2.61	~
11.9%	96.25	~	~	~	~	390.25	3.28	~	~	~	~	~
25.2%	96.50	~	~	~	~	390.25	3.31	~	~	391.50	2.32	~
47.2%	96.75	390.50	2.72	~	~	391.70	1.68	~	~	392.25	1.41	~
53.5%	97.00	390.50	2.78	~	~	391.50	1.93	391.75	1.68	392.00	1.57	~
44.3%	97.25	391.00	2.60	~	~	391.50	1.92	~	~	392.00	1.55	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorded with Ch. 13 (08-015).
Thruwall size was determined by the ASME 50% method.

TW= 0.13 L = 2.75 S = 0.90 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-062

Exam Data Sheet No.: E-08-16
Ind. Data Sheet No.: 08-011
Indication: 08-011

Flaw Thruwall Dimension = 0.13
Flaw Length "l" = 2.75
Separation with clad "S" = 0.90
Surface Separation "S" = 0.71

T nominal = 6.38
Clad T nominal = 0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	1.90	2.00 Y
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			1.90	2.00

a = 0.063
a/l value = 0.023
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.00%
a/t = 0.98%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-012

Indication: 08-012 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
19.6%	85.75	~	~	~	~	394.50	2.27	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
This indication also seen with Ch. 11 (see 08-007).
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III
Date: 12-18-93

Reviewed By: R.O. Forman
Level: II
Date: 12-18-93

43 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-013

Indication: 08-013 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
44.3%	86.75	393.75	1.65	~	~	394.00	1.73	~	~	395.00	2.87	~
44.3%	87.00	~	~	~	~	394.00	1.65	~	~	395.25	3.12	~
57.0%	87.25	394.00	1.61	394.00	1.65	394.25	1.90	394.50	2.13	396.00	3.71	~
50.2%	87.50	394.00	1.65	~	~	394.25	1.91	~	~	394.75	2.54	~
19.6%	87.75	~	~	~	~	394.00	1.76	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorded with Ch. 5 (08-005) and Ch. 11 (08-009).
Thruwall size was determined by the ASME 50% method.

TW = 0.24 L = 1.00 S = 0.83 w/clad

Analyst: Alesa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

44 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-062

Exam Data Sheet No.: E-08-16
Ind. Data Sheet No.: 08-013
Indication: 08-013

Flaw Thruwall Dimension = 0.24
Flaw Length "l" = 1.00
Separation with clad "S" = 0.83
Surface Separation "S" = 0.64

T nominal = 6.38
Clad T nominal = 0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	2.32	2.66 Y
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.32	2.66

a = 0.120
a/l value = 0.120
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.66%
a/t = 1.88%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-014

Indication: 08-014 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
32.4%	94.50	394.25	2.32	~	~	394.50	2.61	~	~	395.75	3.64	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

TW = 0.00 L = 0.25 S = 1.31 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

46 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-015

Indication: 08-015 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
19.6%	96.50	~	~	~	~	395.00	2.94	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: This indication also seen with Ch. 11 (see 08-011).
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Deresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

47 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-016

Indication: 08-016 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
19.6%	113.25	~	~	394.50	3.57	395.25	4.26	396.00	4.93	~	~	~
22.3%	113.50	~	~	394.75	3.86	395.50	4.48	396.25	5.19	~	~	~
11.2%	113.75	~	~	~	~	395.50	4.71	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.44 L = 0.50 S = 2.02 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

48 OF 274

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-062

Exam Data Sheet No.: E-08-16
Ind. Data Sheet No.: 08-016
Indication: 08-016

Flaw Thruwall Dimension =	0.44
Flaw Length "l" =	0.50
Separation with clad "S" =	2.02
Surface Separation "S" =	1.83

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	5.08	6.52 Y
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			5.08	6.52

a =	0.220
a/l value =	0.440
Y =	1.000

Flaw is Subsurface

Allowed a/t =	6.52%
a/t =	3.45%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-16
Patch ID: BF-062
Ind. Data Sheet No.: 08-017

Indication: 08-017 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
25.2%	122.25	~	~	394.50	3.60	395.25	4.30	395.75	4.71	~	~	~
25.2%	122.50	~	~	394.50	3.68	395.75	4.73	396.25	5.19	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW= 0.48 L = 0.25 S = 1.91 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

50 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-062

Exam Data Sheet No.: E-08-16
Ind. Data Sheet No.: 08-017
Indication: 08-017

Flaw Thruwall Dimension =	0.48
Flaw Length "l" =	0.25
Separation with clad "S" =	1.91
Surface Separation "S" =	1.72

T nominal =	6.38
Clad T nominal =	0.19
% of Allowable:	0.49

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	5.20	7.60 Y
			Allowed	Allowed
			5.20	7.60

a =	0.240
a/l value =	0.500
Y =	1.000

Flaw is Subsurface

Allowed a/t =	7.60%
a/t =	3.76%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-17
Patch ID: BF-063
Ind. Data Sheet No.: 08-018

Indication: 08-018 **Channel:** 2 **Angle:** 0 **Direction:** 90

Amp.	Y	20% Min X	MP	50% Min X	MP	@ Max X	MP	50% Max X	MP	20% Max X	MP	Remarks
175.6%	392.25	~	~	171.60	1.08	172.85	1.03	174.10	1.12	~	~	~
68.7%	392.50	~	~	173.35	1.10	173.60	1.14	174.10	1.12	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: This indication evaluated as a laminar reflector and is acceptable in accordance with IWB-3510-2, ASME Section XI, 1986 Edition, No Addenda.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

EXAM-DS3 V.2 10/22/93

12/17/9308-018.XLS

52 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project:	TVA, Browns Ferry, Unit 3	**Exam Data Sheet No.:**	E-08-17
Weld ID:	C-2-3	**Patch ID:**	BF-063
Cal. ID:	C-004	**Ind. Data Sheet No.:**	08-019

Indication: 08-019 **Channel:** 5 **Angle:** 70 **Direction:** 180

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
11.9%	137.90	~	~	~	~	394.80	22.88	~	~	~	~	~
26.9%	138.15	~	~	~	~	394.80	23.04	~	~	~	~	~
22.3%	138.40	~	~	~	~	394.80	23.04	~	~	~	~	~
28.6%	138.65	~	~	~	~	394.80	23.04	~	~	~	~	~
16.3%	138.90	~	~	~	~	394.55	20.40	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball	Reviewed By: R.O. Forman
Level: III Date: 12-18-93	Level: II Date: 12-18-93

53 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-17
Patch ID: BF-063
Ind. Data Sheet No.: 08-020

Indication: 08-020 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
20.9%	136.10	~	~	~	~	390.75	2.30	~	~	~	~	~
18.5%	136.35	~	~	~	~	390.75	2.30	~	~	~	~	~
17.3%	136.60	~	~	~	~	390.75	2.36	~	~	~	~	~
20.9%	136.85	~	~	~	~	391.00	2.14	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable throughwall dimension and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-17
Patch ID: BF-063
Ind. Data Sheet No.: 08-021

Indication: 08-021 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
18.5%	162.00	~	~	~	~	388.50	4.41	~	~	~	~	~
20.9%	162.25	388.50	4.41	~	~	389.25	3.75	~	~	389.50	3.53	~
20.9%	162.50	388.00	4.86	~	~	389.75	3.31	~	~	390.25	2.83	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

TW = 0.00 L = 0.50 S = 1.66 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

EXAM-DS3 V.2 10/22/93

55 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-18
Patch ID: BF-064
Ind. Data Sheet No.: 08-022

Indication: 08-022 **Channel:** 1 **Angle:** 0 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
82.9%	246.15	~	~	392.00	1.32	392.50	1.32	392.75	1.32	~	~	~
106.4%	246.40	~	~	392.25	1.32	392.50	1.32	392.75	1.30	~	~	~
94.0%	246.65	~	~	~	~	392.50	1.30	392.75	1.30	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: This indication also seen with Ch. 2.
This indication evaluated as a laminar reflector and is acceptable
in accordance with IWB-3510-2, ASME Section XI, 1986 Edition, No Addenda.

Analyst: Geneva Kimball
Level: III
Date: 12-18-93

Reviewed By: R.O. Forman
Level: II
Date: 12-18-93

EXAM-DS3 V.2 10/22/93

56 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-18
Patch ID: BF-064
Ind. Data Sheet No.: 08-023

Indication: 08-023 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
39.1%	197.75	~	~	~	~	389.20	31.36	~	~	~	~	~
39.1%	198.00	~	~	~	~	388.45	36.96	~	~	~	~	~
36.7%	198.25	~	~	~	~	388.45	36.80	~	~	~	~	~
30.4%	198.50	~	~	~	~	388.45	36.80	~	~	~	~	~
34.5%	198.75	~	~	~	~	388.45	36.96	~	~	~	~	~
11.9%	199.00	~	~	~	~	388.45	36.80	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: This indication also seen on Ch. 11 (see 08-026).
Thruwall size was determined by the PATT technique.

TW = 0.48 L = 1.50 S = 1.71 w/clad

Analyst: Alesa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

EXAM-DS3 V.2 10/22/93

57 OF 276

12/18/9308-023.XLS

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-064

Exam Data Sheet No.: E-08-18
Ind. Data Sheet No.: 08-023
Indication: 08-023

Flaw Thruwall Dimension =	0.48
Flaw Length "l" =	1.50
Separation with clad "S" =	1.71
Surface Separation "S" =	1.52
T measured =	6.60
Clad T nominal =	0.19

Flaw is unacceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	2.57	2.99 Y
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.57	2.99

a =	0.242
a/l value =	0.161
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.99%
a/t =	3.66%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-18
Patch ID: BF-064
Ind. Data Sheet No.: 08-024

Indication: 08-024 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
14.4%	232.75	~	~	~	~	388.70	33.20	~	~	~	~	~
28.6%	233.00	~	~	~	~	388.95	31.12	~	~	~	~	~
36.7%	233.25	~	~	~	~	389.20	28.96	~	~	~	~	~
18.5%	233.50	~	~	~	~	388.95	30.00	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

59 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-18
Patch ID: BF-064
Ind. Data Sheet No.: 08-025

Indication: 08-025 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
44.3%	240.10	391.25	2.14	~	~	391.50	1.96	~	~	392.00	1.55	~
32.4%	240.35	391.25	2.09	~	~	391.50	1.96	~	~	391.75	1.68	~
19.6%	240.60	~	~	~	~	391.50	1.96	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

TW = 0.00 L = 0.50 S = 1.39 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

60 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-18
Patch ID: BF-064
Ind. Data Sheet No.: 08-026

Indication: 08-026 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
26.9%	197.75	389.00	3.90	~	~	389.25	3.64	~	~	389.50	3.42	~
36.7%	198.00	388.75	4.12	~	~	389.25	3.64	~	~	390.00	2.97	~
32.4%	198.25	388.75	4.11	~	~	389.25	3.65	~	~	390.00	2.97	~
26.9%	198.50	389.00	3.87	~	~	390.00	2.97	~	~	390.25	2.70	~
44.3%	198.75	388.75	4.13	~	~	389.75	3.19	~	~	390.25	2.76	~
30.4%	199.00	389.50	3.38	~	~	390.00	3.02	~	~	390.25	2.72	~
26.9%	199.25	~	~	~	~	389.75	3.19	~	~	390.25	2.78	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: This indication also seen with Ch. 3 (see 08-023) and Ch. 7 (not recorded due to less than ASME DAC levels with no apparent tip signals).
Thruwall size was determined by the PATT technique.

TW = 0.41 L = 1.50 S = 1.75 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

61 OF 274

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-064

Exam Data Sheet No.: E-08-18
Ind. Data Sheet No.: 08-026
Indication: 08-026

Flaw Thruwall Dimension =	0.41
Flaw Length "l" =	1.50
Separation with clad "S" =	1.75
Surface Separation "S" =	1.56

T measured =	6.60
Clad T nominal =	0.19

Flaw is unacceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	2.42	2.79 Y
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.42	2.79

a =	0.205
a/l value =	0.137
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.79%
a/t =	3.11%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-18
Patch ID: BF-064
Ind. Data Sheet No.: 08-027

Indication: 08-027 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
28.6%	211.75	~	~	389.00	4.80	389.50	4.37	390.75	3.26	~	~	~
16.3%	212.00	~	~	389.25	4.59	390.50	3.45	390.75	3.23	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Thruwall size was determined by the SPOT technique.

TW = 0.40 L = 0.25 S = 1.99 w/clad

Analyst: Laura Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

EXAM-DS3 V.2 10/22/93

63 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-064

Exam Data Sheet No.: E-08-18
Ind. Data Sheet No.: 08-027
Indication: 08-027

Flaw Thruwall Dimension =	0.40
Flaw Length "l" =	0.25
Separation with clad "S" =	1.99
Surface Separation "S" =	1.80

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	5.20	7.60 Y
			Allowed	Allowed
			5.20	7.60

a =	0.200
a/l value =	0.500
Y =	1.000

Flaw is Subsurface

Allowed a/t =	7.60%
a/t =	3.13%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-19
Patch ID: BF-065
Ind. Data Sheet No.: 08-028

Indication: 08-028 to 08-032 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
13.5%	272.00	~	~	~	~	390.20	20.40	~	~	~	~	08-028
47.2%	272.25	~	~	~	~	389.95	24.24	~	~	~	~	08-028
50.2%	272.50	~	~	~	~	389.95	24.32	~	~	~	~	08-028
36.7%	272.75	~	~	~	~	389.95	24.08	~	~	~	~	08-028
~	~	~	~	~	~	~	~	~	~	~	~	~
11.2%	278.25	~	~	~	~	389.95	24.72	~	~	~	~	08-029
15.3%	278.50	~	~	~	~	389.95	24.32	~	~	~	~	08-029
328.5%	278.75	~	~	~	~	389.95	24.08	~	~	~	~	08-029
18.5%	279.00	~	~	~	~	389.95	23.52	~	~	~	~	08-029
~	~	~	~	~	~	~	~	~	~	~	~	~
14.4%	280.00	~	~	~	~	389.95	23.36	~	~	~	~	08-030
20.9%	280.25	~	~	~	~	389.95	23.36	~	~	~	~	08-030
19.6%	280.50	~	~	~	~	389.95	23.44	~	~	~	~	08-030
~	~	~	~	~	~	~	~	~	~	~	~	~
16.3%	281.75	~	~	~	~	389.95	23.68	~	~	~	~	08-031
26.9%	282.00	~	~	~	~	389.95	23.44	~	~	~	~	08-031
15.3%	282.25	~	~	~	~	389.95	23.68	~	~	~	~	08-031
9.3%	282.50	~	~	~	~	389.95	23.68	~	~	~	~	08-031
~	~	~	~	~	~	~	~	~	~	~	~	~
11.9%	287.00	~	~	~	~	389.70	27.20	~	~	~	~	08-032
16.3%	287.25	~	~	~	~	389.95	24.88	~	~	~	~	08-032
23.7%	287.50	~	~	~	~	389.95	24.88	~	~	~	~	08-032
12.7%	287.75	~	~	~	~	389.95	24.88	~	~	~	~	08-032
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indications have no determinable thruwall and are acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-1893

EXAM-DS3 V.2 10/22/93

12/18/9306-028.XLS

00065

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-19
Patch ID: BF-065
Ind. Data Sheet No.: 08-033

Indication: 08-033, 08-034 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
28.6%	292.00	~	~	~	~	389.95	24.88	~	~	~	~	08-033
34.5%	292.25	~	~	~	~	389.95	24.72	~	~	~	~	08-033
22.3%	292.50	~	~	~	~	389.95	24.72	~	~	~	~	08-033
~	~	~	~	~	~	~	~	~	~	~	~	~
13.5%	311.00	~	~	~	~	389.45	27.36	~	~	~	~	08-034
17.3%	311.25	~	~	~	~	389.45	27.36	~	~	~	~	08-034
23.7%	311.50	~	~	~	~	390.20	21.44	~	~	~	~	08-034
9.9%	311.75	~	~	~	~	390.20	22.00	~	~	~	~	08-034
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indications have no determinable thruwall and are acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

EXAM-DS3 V.2 10/22/93

12/18/9308-028.XLS

66 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-19
Patch ID: BF-065
Ind. Data Sheet No.: 08-035

Indication: 08-035 to 08-037 **Channel:** 5 **Angle:** 70 **Direction:** 180

Amp.	**X**	**20% Min Y**	**TOF**	**50% Min Y**	**TOF**	**@ Max Y**	**TOF**	**50% Max Y**	**TOF**	**20% Max Y**	**TOF**	**Remarks**
19.6%	272.15	~	~	~	~	394.55	27.28	~	~	~	~	08-035
19.6%	272.40	~	~	~	~	395.05	31.04	~	~	~	~	08-035
17.3%	272.65	~	~	~	~	395.05	31.12	~	~	~	~	08-035
13.5%	272.90	~	~	~	~	394.30	16.16	~	~	~	~	08-035
~	~	~	~	~	~	~	~	~	~	~	~	~
26.9%	280.15	~	~	~	~	395.50	31.04	~	~	~	~	08-036
15.3%	280.40	~	~	~	~	395.05	31.36	~	~	~	~	08-036
~	~	~	~	~	~	~	~	~	~	~	~	~
47.2%	282.15	~	~	~	~	394.55	26.48	~	~	~	~	08-037
34.5%	282.40	~	~	~	~	394.55	26.96	~	~	~	~	08-037
26.9%	282.65	~	~	~	~	394.55	27.04	~	~	~	~	08-037
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indications have no determinable thruwall and are acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-19
Patch ID: BF-065
Ind. Data Sheet No.: 08-038

Indication: 08-038 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
53.5%	296.60	~	~	~	~	386.25	10.25	~	~	~	~	~
94.0%	296.85	~	~	386.00	10.46	386.50	10.06	387.00	9.66	~	~	~
106.4%	297.10	~	~	385.75	10.65	386.50	10.06	387.00	9.68	~	~	~
100.0%	297.35	~	~	385.75	10.65	386.50	9.95	387.00	9.68	~	~	~
57.0%	297.60	~	~	386.00	10.44	386.50	10.06	386.75	9.87	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorded with Ch. 9 (08-040), Ch. 11 (08-042) and 13 (08-045).
This indication also seen with Ch. 10 at below recordable levels.
OD surface geometry.
7.07 dB below Notch sensitivity.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

EXAM-DS3 V.2 10/22/93

68 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project:	TVA, Browns Ferry, Unit 3	**Exam Data Sheet No.:**	E-08-19
Weld ID:	C-2-3	**Patch ID:**	BF-065
Cal. ID:	C-004	**Ind. Data Sheet No.:**	08-039

Indication: 08-039 **Channel:** 9 **Angle:** 45 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
25.2%	290.25	~	~	395.75	4.37	396.00	4.56	396.25	4.72	~	~	~
32.4%	290.50	~	~	395.50	4.18	395.75	4.37	396.25	4.74	~	~	~
36.7%	290.75	~	~	395.25	3.97	395.75	4.32	396.25	4.69	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorded with Ch. 11 (08-041) and Ch. 13 (08-043).
Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.34 L = 0.50 S = 2.89 w/clad

Analyst: Alesa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

69 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-065

Exam Data Sheet No.: E-08-19
Ind. Data Sheet No.: 08-039
Indication: 08-039

Flaw Thruwall Dimension =	0.34
Flaw Length "l" =	0.50
Separation with clad "S" =	2.89
Surface Separation "S" =	2.70

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	4.28	4.96 Y
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			4.28	4.96

a =	0.170
a/l value =	0.340
Y =	1.000

Flaw is Subsurface

Allowed a/t =	4.96%
a/t =	2.66%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-19
Patch ID: BF-065
Ind. Data Sheet No.: 08-040

Indication: 08-040 **Channel:** 9 **Angle:** 45 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
50.2%	296.75	~	~	~	~	399.25	9.25	~	~	~	~	~
77.9%	297.00	~	~	399.00	9.07	399.25	9.22	399.75	9.66	~	~	~
77.9%	297.25	~	~	399.00	9.09	399.25	9.25	399.75	9.66	~	~	~
77.9%	297.50	~	~	399.00	9.07	399.25	9.25	399.75	9.66	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication also recorded with Ch. 7 (08-038), Ch. 11 (08-042) and Ch. 13 (08-045).
This indication also seen with Ch. 10 below recordable levels.
OD surface geometry.
9.79 dB below Notch sensitivity.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

EXAM-DS3 V.2 10/22/93

WRL 7-5-95

12/18/9308-0 [illegible]

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-19
Patch ID: BF-065
Ind. Data Sheet No.: 08-041

Indication: 08-041 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
18.5%	290.50	~	~	388.75	5.63	389.00	5.41	389.50	5.00	~	~	~
30.4%	290.75	~	~	387.75	6.50	389.25	5.15	389.50	4.97	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorded with Ch. 9 (08-039) and Ch. 13 (08-043).
Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.38 L = 0.25 S = 2.39 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

72 of 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-065

Exam Data Sheet No.: E-08-19
Ind. Data Sheet No.: 08-041
Indication: 08-041

Flaw Thruwall Dimension =	0.38
Flaw Length "l" =	0.25
Separation with clad "S" =	2.39
Surface Separation "S" =	2.20

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	5.20	7.60 Y
			Allowed	Allowed
			5.20	7.60

a =	0.190
a/l value =	0.500
Y =	1.000

Flaw is Subsurface

Allowed a/t =	7.60%
a/t =	2.98%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-19
Patch ID: BF-065
Ind. Data Sheet No.: 08-042

Indication: 08-042 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
50.2%	296.75	~	~	~	~	385.00	11.69	~	~	~	~	~
53.5%	297.00	~	~	~	~	384.25	11.69	~	~	~	~	~
64.5%	297.25	~	~	384.00	11.93	384.25	11.69	384.50	11.52	~	~	~
68.7%	297.50	~	~	384.00	11.93	384.25	11.69	384.50	11.50	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorded with Ch. 7 (08-038), Ch. 9 (08-040) and Ch. 13 (08-045).
This indication also seen with Ch. 10 below recordable levels.
OD surface geometry.
1.09 dB below Notch sensitivity.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R 1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-19
Patch ID: BF-065
Ind. Data Sheet No.: 08-043

Indication: 08-043 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
36.7%	290.25	~	~	397.75	5.96	398.00	6.18	398.50	6.62	~	~	~
53.5%	290.50	~	~	397.75	5.74	398.00	6.18	398.75	6.88	~	~	~
60.6%	290.75	~	~	397.50	5.74	398.50	6.62	399.00	7.13	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication rcorded with Ch. 9 (08-039) and Ch. 11 (08-041).
Thruwall size was determined by the SPOT technique.

TW = 0.34 L = 0.50 S = 3.14 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-065

Exam Data Sheet No.: E-08-19
Ind. Data Sheet No.: 08-043
Indication: 08-043

Flaw Thruwall Dimension =	0.34
Flaw Length "l" =	0.50
Separation with clad "S" =	3.14
Surface Separation "S" =	2.95

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	4.28	4.96 Y
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			4.28	4.96

a =	0.170
a/l value =	0.340
Y =	1.000

Flaw is Subsurface

Allowed a/t =	4.96%
a/t =	2.66%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project:	TVA, Browns Ferry, Unit 3	**Exam Data Sheet No.:**	E-08-19
Weld ID:	C-2-3	**Patch ID:**	BF-065
Cal. ID:	C-004	**Ind. Data Sheet No.:**	08-044

Indication: 08-044 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
26.0%	313.50	~	~	400.75	9.62	401.25	9.97	401.50	10.21	~	~	~
32.4%	313.25	~	~	400.50	9.33	401.00	9.76	402.00	10.64	~	~	~
30.4%	313.00	~	~	400.50	9.33	401.00	9.76	402.00	10.64	~	~	~
23.7%	312.75	~	~	~	~	400.50	9.33	402.00	10.62	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.32 L = 0.75 S = 1.56

Analyst: Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-065

Exam Data Sheet No.: E-08-19
Ind. Data Sheet No.: 08-044
Indication: 08-044

Flaw Thruwall Dimension = 0.32
Flaw Length "l" = 0.75
Separation with clad "S" = N/A
Surface Separation "S" = 1.56

T nominal = 6.38
Clad T nominal = 0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	2.93	3.43 Y
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.93	3.43

a = 0.160
a/l value = 0.213
Y = 1.000

Flaw is Subsurface

Allowed a/t = 3.43%
a/t = 2.51%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-19
Patch ID: BF-065
Ind. Data Sheet No.: 08-045

Indication: 08-045 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
53.5%	297.00	~	~	~	~	403.00	12.12	~	~	~	~	~
73.1%	297.25	~	~	402.75	11.88	403.00	12.10	~	~	~	~	~
73.1%	297.50	~	~	402.75	11.88	403.00	12.10	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorded with Ch. 7 (08-038), Ch. 9 (08-040) and Ch. 11 (08-042).
This indication also recoded with Ch. 10 below recordable levels.
OD surface geometry.
2.17 dB below Notch sensitivity.

Analyst: Vera Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

EXAM-DS3 V.2 10/22/93

12/18/9308-045.XLS

79 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-20
Patch ID: BF-066
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	1, 5	08-046	08-048	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1	08-050	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1	08-051	08-052	08-053	~	~
10	45 RS	270 CCW	1	08-054	08-055	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: 5 = Typical non-relevant reflector pattern due to clad surface.

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number

Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Louisa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-21
Patch ID: BF-067
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	1	08-056	08-057	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1	08-061	08-062	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: Indication Data Sheet 08-056 documents indications 08-056 and 08-058 thru 08-060.

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-22
Patch ID: BF-068
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	1	08-063	08-064	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1	08-065	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1	08-066	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number

Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III
Date: 12-19-93

Reviewed By: R.O. Forman
Level: II
Date: 12-19-93

82 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	1	08-067	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	1	08-068	08-069	08-070	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1	08-071	08-072	08-073	08-074	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	1	08-075	08-076	08-077	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1	08-078	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project:	TVA, Browns Ferry, Unit 3	**Exam Data Sheet No.:**	E-08-24
Weld ID:	C-2-3	**Patch ID:**	BF-070
Cal. ID:	C-004	**Ind. Data Sheet Series:**	08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	1	08-079	08-080	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1	08-081	08-082	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	NRI	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	1	08-083	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: N/A

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number

Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball	Reviewed By: R.O. Forman
Level: III Date: 12-19-93	Level: II Date: 12-19-93

EXAM-DS2 V.1 9/28/93

E-08-24.XLS

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-25
Patch ID: BF-071
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	NRI	~	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	1	08-084	08-085	08-086	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1, 5	08-087	08-088	* G-110	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	5	* G-111	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	1	08-089	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	NRI	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: 5 = Indication associated with repair area.
* Pictures only - Reflectors associated with a repair area and documented for information only.

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Laura Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-23

85 of 276

R1154

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet Series: 08-XXX

Channel	Angle	Direction	Ind.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sh.	Ind. Data Sheet
1	0 WM	N/A	* 1	08-090	~	~	~	~
2	0 WM	N/A	* 1	08-091	~	~	~	~
3	70 RL	0 UP	1	08-092	08-093	08-094	08-095	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	1	08-096	08-097	08-098	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1	08-099	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1	08-100	08-101	08-102	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	1	08-103	08-104	08-105	08-106	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1	08-107	08-108	08-109	08-110	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~

Comments: * Same indication

Data Sheet Codes: G-XXX; "G" = Geometry (may be typical), 6-XXX; "6" = Weld Sequence, XXX = Sheet Number
Indication Codes: 1 = Flaw, 2 = OD Surface, 3 = OD Attachment, 4 = Nozzle, 5 = Other

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

86 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-20
Patch ID: BF-066
Ind. Data Sheet No.: 08-046

Indication: 08-046, 08-047 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
73.1%	331.25	~	~	~	~	393.45	8.64	~	~	~	~	08-046
106.4%	331.50	~	~	~	~	393.45	8.48	~	~	~	~	08-046
82.9%	331.75	~	~	~	~	393.95	8.48	~	~	~	~	08-046
~	~	~	~	~	~	~	~	~	~	~	~	~
47.2%	350.75	~	~	~	~	393.95	8.72	~	~	~	~	08-047
100.0%	351.00	~	~	~	~	393.95	8.48	~	~	~	~	08-047
39.1%	351.25	~	~	~	~	394.20	6.64	~	~	~	~	08-047
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Clad interface.
No apparent tip signals.
Indications have no determinable thruwall and are acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-18-93

87 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-20
Patch ID: BF-066
Ind. Data Sheet No.: 04-048

Indication: 08-048, 08-049 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
25.2%	337.75	~	~	~	~	389.95	26.64	~	~	~	~	08-048
28.6%	338.00	~	~	~	~	389.95	26.64	~	~	~	~	08-048
12.7%	338.25	~	~	~	~	389.95	27.04	~	~	~	~	08-048
~	~	~	~	~	~	~	~	~	~	~	~	~
22.3%	351.00	~	~	~	~	388.70	35.60	~	~	~	~	08-049
19.6%	351.25	~	~	~	~	388.70	35.76	~	~	~	~	08-049
16.3%	351.50	~	~	~	~	388.95	33.68	~	~	~	~	08-049
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indications have no determinable thruwall and are acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-~~8~~93 @ 12-19-93

88 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-20
Patch ID: BF-066
Ind. Data Sheet No.: 08-050

Indication: 08-050 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
20.9%	342.85	~	~	~	~	391.00	2.54	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable length or thruwall and is acceptable to IWB-3510-1.

Analyst: Dera Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

89 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-20
Patch ID: BF-066
Ind. Data Sheet No.: 08-051

Indication: 08-051 **Channel:** 9 **Angle:** 45 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
7.7%	331.00	~	~	~	~	398.00	7.53	~	~	~	~	~
11.9%	331.25	~	~	397.75	7.18	398.25	7.53	398.50	7.73	~	~	~
16.3%	331.50	~	~	397.75	7.16	398.25	7.51	398.75	7.88	~	~	~
16.3%	331.75	~	~	397.50	7.00	398.25	7.53	398.75	7.89	~	~	~
14.4%	332.00	~	~	397.50	6.98	398.25	7.53	399.00	8.09	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.23 L = 1.00 S = 1.18

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

90 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-066

Exam Data Sheet No.: E-08-20
Ind. Data Sheet No.: 08-051
Indication: 08-051

Flaw Thruwall Dimension = 0.23
Flaw Length "l" = 1.00
Separation with clad "S" = N/A
Surface Separation "S" = 1.18

T nominal = 6.38
Clad T nominal = 0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	2.29	2.62 Y
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.29	2.62

a = 0.115
a/l value = 0.115
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.62%
a/t = 1.80%

Comments:

EXAM-DS4 V.1 10/3/93

EXAM-DX4.XLS12/19/93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-20
Patch ID: BF-066
Ind. Data Sheet No.: 08-052

Indication: 08-052 **Channel:** 9 **Angle:** 45 **Direction:** 180

		20%		50%		@ Max		50%		20%		
Amp.	X	Min Y	MP	Min Y	MP	Y	MP	Max Y	MP	Max Y	MP	Remarks
9.3%	340.00	~	~	~	~	396.25	5.06	~	~	~	~	~
18.5%	340.25	~	~	396.00	4.91	396.25	5.06	396.50	5.25	~	~	~
17.3%	340.50	~	~	396.00	4.89	396.25	5.06	396.50	5.25	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.20 L = 0.50 S = 2.92

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

EXAM-DS3 V.2 10/22/93

12/18/9308-052.XLS

92 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-066

Exam Data Sheet No.: E-08-20
Ind. Data Sheet No.: 08-052
Indication: 08-052

Flaw Thruwall Dimension =	0.20
Flaw Length "l" =	0.50
Separation with clad "S" =	N/A
Surface Separation "S" =	2.92

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	2.80	3.30 Y
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.80	3.30

a =	0.100
a/l value =	0.200
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.30%
a/t =	1.57%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-20
Patch ID: BF-066
Ind. Data Sheet No.: 08-053

Indication: 08-053 **Channel:** 9 **Angle:** 45 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
25.2%	357.00	~	~	398.25	7.47	398.75	7.84	399.00	8.04	~	~	~
30.4%	357.25	~	~	398.00	7.29	398.75	7.82	399.25	8.22	~	~	~
28.6%	357.50	~	~	398.00	7.31	398.75	7.84	399.25	8.23	~	~	~
19.6%	357.75	~	~	398.25	7.49	398.50	7.66	398.75	7.84	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.33 L = 0.75 S = 0.91

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-066

Exam Data Sheet No.: E-08-20
Ind. Data Sheet No.: 08-053
Indication: 08-053

Flaw Thruwall Dimension =	0.33
Flaw Length "l" =	0.75
Separation with clad "S" =	N/A
Surface Separation "S" =	0.91

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	3.00	3.50 Y
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			3.00	3.50

a =	0.165
a/l value =	0.220
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.50%
a/t =	2.59%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-20
Patch ID: BF-066
Ind. Data Sheet No.: 08-054

Indication: 08-054 **Channel:** 10 **Angle:** 45 **Direction:** 270

Amp.	Y	20% Min X	MP	50% Min X	MP	@ Max X	MP	50% Max X	MP	20% Max X	MP	Remarks
5.3%	392.25	~	~	342.60	3.47	342.85	3.74	343.35	4.01	~	~	~
4.4%	392.50	~	~	342.60	3.42	342.85	3.74	343.60	4.15	~	~	~
3.6%	392.75	~	~	342.85	3.71	343.10	4.04	343.60	4.28	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the PATT technique.

TW = 0.22 L = 0.50 S = 2.65 with clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

96 OF 274

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-066

Exam Data Sheet No.: E-08-20
Ind. Data Sheet No.: 08-054
Indication: 08-054

Flaw Thruwall Dimension =	0.22
Flaw Length "l" =	0.50
Separation with clad "S" =	2.65
Surface Separation "S" =	2.46

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	3.00	3.50 Y
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			3.00	3.50

a =	0.110
a/l value =	0.220
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.50%
a/t =	1.72%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-20
Patch ID: BF-066
Ind. Data Sheet No.: 08-055

Indication: 08-055 **Channel:** 10 **Angle:** 45 **Direction:** 270

Amp.	Y	20% Min X	MP	50% Min X	MP	@ Max X	MP	50% Max X	MP	20% Max X	MP	Remarks
2.7%	392.25	~	~	~	~	344.60	3.93	~	~	~	~	~
4.4%	392.50	~	~	344.35	3.72	344.60	3.90	345.10	4.44	~	~	~
3.4%	392.75	~	~	344.35	3.80	344.60	3.92	345.10	4.39	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.20 L = 0.50 S = 2.66 with clad

Analyst: Teresa Kimball
Level: III Date: 12-18-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

EXAM-DS3 V.2 10/22/93

98 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-066

Exam Data Sheet No.: E-08-20
Ind. Data Sheet No.: 08-055
Indication: 08-055

Flaw Thruwall Dimension =	0.20
Flaw Length "l" =	0.50
Separation with clad "S" =	2.66
Surface Separation "S" =	2.47

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	2.79	3.28 Y
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.79	3.28

a =	0.099
a/l value =	0.198
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.28%
a/t =	1.55%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-21
Patch ID: BF-067
Ind. Data Sheet No.: 08-056

Indication: 08-056 and 08-058 thru 08-060
Channel: 3
Angle: 70
Direction: 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
22.3%	430.50	~	~	~	~	390.45	22.88	~	~	~	~	08-056
14.4%	430.75	~	~	~	~	390.45	22.80	~	~	~	~	08-056
9.9%	431.00	~	~	~	~	390.45	22.80	~	~	~	~	08-056
~	~	~	~	~	~	~	~	~	~	~	~	~
14.4%	449.50	~	~	~	~	390.20	24.96	~	~	~	~	08-058
20.9%	449.75	~	~	~	~	390.20	24.96	~	~	~	~	08-058
11.9%	450.00	~	~	~	~	390.20	25.20	~	~	~	~	08-058
~	~	~	~	~	~	~	~	~	~	~	~	~
11.9%	452.50	~	~	~	~	389.70	27.36	~	~	~	~	08-059
19.6%	452.75	~	~	~	~	390.20	23.20	~	~	~	~	08-059
14.4%	453.00	~	~	~	~	389.95	25.52	~	~	~	~	08-059
~	~	~	~	~	~	~	~	~	~	~	~	~
19.6%	475.50	~	~	~	~	389.70	29.68	~	~	~	~	08-060
28.6%	475.75	~	~	~	~	389.95	27.52	~	~	~	~	08-060
22.3%	476.00	~	~	~	~	389.95	27.52	~	~	~	~	08-060
10.5%	476.25	~	~	~	~	389.95	27.60	~	~	~	~	08-060
15.3%	476.50	~	~	~	~	389.95	27.60	~	~	~	~	08-060
10.5%	476.75	~	~	~	~	389.95	27.84	~	~	~	~	08-060
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indications have no determinable thruwall and are acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III
Date: 12-18-93

Reviewed By: R. O. Forman
Level: II
Date: 12-19-93

100 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-21
Patch ID: BF-067
Ind. Data Sheet No.: 08-057

Indication: 08-057 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
19.6%	448.50	~	~	~	~	390.45	20.40	~	~	~	~	~
36.7%	448.75	~	~	~	~	390.45	20.16	~	~	~	~	~
44.3%	449.00	~	~	~	~	390.70	20.00	~	~	~	~	~
22.3%	449.25	~	~	~	~	390.45	19.92	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Thruwall size was determined by the PATT technique.

TW = 0.44 L = 1.00 S = 0.85 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

EXAM-DS3 V.2 10/22/93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-067

Exam Data Sheet No.: E-08-21
Ind. Data Sheet No.: 08-057
Indication: 08-057

Flaw Thruwall Dimension =	0.44
Flaw Length "l" =	1.00
Separation with clad "S" =	0.85
Surface Separation "S" =	0.66

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	3.00	3.50 Y
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			3.00	3.50

a =	0.220
a/l value =	0.220
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.50%
a/t =	3.45%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-21
Patch ID: BF-067
Ind. Data Sheet No.: 08-061

Indication: 08-061 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
53.5%	448.50	393.50	1.33	~	~	393.75	1.58	394.00	1.87	394.25	2.09	~
88.2%	448.75	393.50	1.35	~	~	394.00	1.87	394.25	2.09	394.50	2.44	~
73.1%	449.00	393.50	1.35	~	~	394.00	1.86	~	~	394.50	2.32	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Thruwall size was determined by the ASME 50% method.

TW = 0.26 L = 0.50 S = 0.81 with clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-067

Exam Data Sheet No.: E-08-21
Ind. Data Sheet No.: 08-061
Indication: 08-061

Flaw Thruwall Dimension =	0.26
Flaw Length "l" =	0.50
Separation with clad "S" =	0.81
Surface Separation "S" =	0.62

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	3.35	3.86 Y
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			3.35	3.86

a =	0.128
a/l value =	0.255
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.86%
a/t =	2.00%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-21
Patch ID: BF-067
Ind. Data Sheet No.: 08-062

Indication: 08-062 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
50.2%	451.50	393.50	1.42	~	~	394.00	1.86	~	~	394.25	2.08	~
57.0%	451.75	393.50	1.37	~	~	393.75	1.62	394.00	1.87	394.25	2.10	~
32.4%	452.00	~	~	~	~	393.75	1.62	~	~	394.00	1.86	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Thruwall size was determined by the ASME 50% method.

TW = 0.13 L = 0.50 S = 0.75 with clad

Analyst: Deresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

105 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-067

Exam Data Sheet No.: E-08-21
Ind. Data Sheet No.: 08-062
Indication: 08-062

Flaw Thruwall Dimension = 0.13
Flaw Length "l" = 0.50
Separation with clad "S" = 0.75
Surface Separation "S" = 0.56

T nominal = 6.38
Clad T nominal = 0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	2.35	2.70 Y
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.35	2.70

a = 0.063
a/l value = 0.125
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.70%
a/t = 0.98%

Comments:

R 1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-22
Patch ID: BF-068
Ind. Data Sheet No.: 08-063

Indication: 08-063 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
7.2%	499.25	~	~	~	~	389.95	25.12	~	~	~	~	~
18.5%	499.50	~	~	~	~	389.95	24.72	~	~	~	~	~
18.5%	499.75	~	~	~	~	389.95	24.64	~	~	~	~	~
19.6%	500.00	~	~	~	~	389.95	24.56	~	~	~	~	~
13.5%	500.25	~	~	~	~	389.40	28.56	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

Analyst: Anesa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-22
Patch ID: BF-068
Ind. Data Sheet No.: 08-064

Indication: 08-064 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
28.6%	502.50	~	~	~	~	389.95	25.20	~	~	~	~	~
26.9%	502.75	~	~	~	~	389.95	25.04	~	~	~	~	~
26.9%	503.00	~	~	~	~	389.95	24.96	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-22
Patch ID: BF-068
Ind. Data Sheet No.: 08-065

Indication: 08-065 **Channel:** 9 **Angle:** 45 **Direction:** 180

Amp.	**X**	**20% Min Y**	**MP**	**50% Min Y**	**MP**	**@ Max Y**	**MP**	**50% Max Y**	**MP**	**20% Max Y**	**MP**	**Remarks**
20.9%	496.75	~	~	396.75	6.25	397.00	6.41	398.00	7.16	~	~	~
20.9%	497.00	~	~	396.75	6.24	397.50	6.74	397.75	6.98	~	~	~
19.6%	497.25	~	~	396.75	6.24	397.00	6.41	397.75	6.96	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = .226 L = .5 S = 1.72

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

109 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-068

Exam Data Sheet No.: E-08-22
Ind. Data Sheet No.: 08-065
Indication: 08-065

Flaw Thruwall Dimension =	0.23
Flaw Length "l" =	0.50
Separation with clad "S" =	N/A
Surface Separation "S" =	1.72

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	3.06	3.56 Y
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			3.06	3.56

a =	0.113
a/l value =	0.226
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.56%
a/t =	1.77%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-22
Patch ID: BF-068
Ind. Data Sheet No.: 08-066

Indication: 08-066 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
23.7%	~	~	~	~	~	393.75	1.74	~	~	~	~	~
68.7%	484.50	393.50	1.44	~	~	393.75	1.68	394.00	1.90	394.25	2.20	~
22.3%	484.75	393.50	1.47	~	~	393.75	1.68	~	~	394.00	1.91	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Thruwall size was determined by the ASME 50% method.

TW = 0.11 L = 0.50 S = 0.79 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-068

Exam Data Sheet No.: E-08-21
Ind. Data Sheet No.: 08-066
Indication: 08-066

Flaw Thruwall Dimension = 0.11
Flaw Length "l" = 0.50
Separation with clad "S" = 0.79
Surface Separation "S" = 0.60

T nominal = 6.38
Clad T nominal = 0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	2.26	2.58 Y
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.26	2.58

a = 0.055
a/l value = 0.110
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.58%
a/t = 0.86%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet No.: 08-067

Indication: 08-067 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
12.7%	557.75	~	~	~	~	389.45	36.16	~	~	~	~	~
16.3%	558.00	~	~	~	~	389.20	38.00	~	~	~	~	~
41.6%	558.25	~	~	~	~	389.45	35.44	~	~	~	~	~
39.1%	558.50	~	~	~	~	388.70	41.32	~	~	~	~	~
23.7%	558.75	~	~	~	~	389.70	33.12	~	~	~	~	~
18.5%	559.00	~	~	~	~	389.20	37.28	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: This indication also seen with Ch. 7 (see 08-073) and Ch. 11 (not recorded due to less than ASME DAC level and no apparent tip signals).
Thruwall size was determined by the PATT technique.

TW = 0.369 L = 1.5 S = 1.656 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

113 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-068

Exam Data Sheet No.: E-08-23
Ind. Data Sheet No.: 08-067
Indication: 08-067

Flaw Thruwall Dimension =	0.37
Flaw Length "l" =	1.50
Separation with clad "S" =	1.66
Surface Separation "S" =	1.47

T measured =	6.55
Clad T nominal =	0.19

Flaw is unacceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	2.34	2.68 Y
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.34	2.68

a =	0.185
a/l value =	0.123
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.68%
a/t =	2.82%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet No.: 08-068

Indication: 08-068 **Channel:** 5 **Angle:** 70 **Direction:** 180

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
22.3%	543.40	~	~	~	~	394.80	23.36	~	~	~	~	~
64.5%	543.65	~	~	~	~	394.80	23.04	~	~	~	~	~
15.3%	543.90	~	~	~	~	394.80	23.04	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Thruwall size was determined by the PATT technique.

TW = 0.40 L = 0.75 S = 1.04 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

EXAM-DS3 V.2 10/22/93

12/19/9308-068.XLS

R 1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-069

Exam Data Sheet No.: E-08-23
Ind. Data Sheet No.: 08-068
Indication: 08-068

Flaw Thruwall Dimension = 0.40
Flaw Length "l" = 0.75
Separation with clad "S" = 1.04
Surface Separation "S" = 0.85

T nominal = 6.38
Clad T nominal = 0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	3.43	3.96 Y
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			3.43	3.96

a = 0.198
a/l value = 0.263
Y = 1.000

Flaw is Subsurface

Allowed a/t = 3.96%
a/t = 3.10%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet No.: 08-069

Indication: 08-069 **Channel:** 5 **Angle:** 70 **Direction:** 180

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
25.2%	562.40	~	~	~	394.80	22.80	~	~	~	~	~	~
9.9%	562.65	~	~	~	395.05	25.20	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet No.: 08-070

Indication: 08-070 **Channel:** 5 **Angle:** 70 **Direction:** 180

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
13.5%	558.40	~	~	~	~	396.05	33.28	~	~	~	~	~
34.5%	558.65	~	~	~	~	396.05	33.84	~	~	~	~	~
20.9%	558.90	~	~	~	~	396.05	33.52	~	~	~	~	~
11.2%	559.15	~	~	~	~	396.05	33.76	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

EXAM-DS3 V.2 10/22/93

12/18/9308-070.XLS

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet No.: 08-071

Indication: 08-071 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
18.5%	548.35	~	~	390.25	4.43	390.50	4.27	390.75	4.08	~	~	~
11.9%	548.60	~	~	390.25	4.43	390.50	4.27	390.75	4.08	~	~	~
11.9%	548.85	~	~	390.25	4.45	390.50	4.25	390.75	4.08	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorded with Ch. 11 (08-076).
Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.23 L = 0.50 S = 2.91 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

119 OF 276

B 1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-069

Exam Data Sheet No.: E-08-23
Ind. Data Sheet No.: 08-071
Indication: 08-071

Flaw Thruwall Dimension =	0.23
Flaw Length "l" =	0.50
Separation with clad "S" =	2.91
Surface Separation "S" =	2.72

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	3.06	3.56 Y
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			3.06	3.56

a =	0.113
a/l value =	0.226
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.56%
a/t =	1.77%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet No.: 08-072

Indication: 08-072 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
6.8%	551.10	~	~	~	~	386.50	8.00	~	~	~	~	~
16.3%	551.35	~	~	385.75	8.50	386.50	7.96	386.75	7.78	~	~	~
14.4%	551.60	~	~	385.75	8.50	386.25	8.13	386.75	7.78	~	~	~
11.9%	551.85	~	~	386.00	8.33	386.25	8.11	386.50	7.96	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.33 L = 0.75 S = 0..809

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

121 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-069

Exam Data Sheet No.: E-08-23
Ind. Data Sheet No.: 08-072
Indication: 08-072

Flaw Thruwall Dimension =	0.33
Flaw Length "l" =	0.75
Separation with clad "S" =	N/A
Surface Separation "S" =	0.81

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	2.97	3.47 Y
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.97	3.47

a =	0.163
a/l value =	0.217
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.47%
a/t =	2.55%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet No.: 08-073

Indication: 08-073 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
13.5%	558.10	~	~	390.75	3.20	391.25	2.85	392.00	2.26	~	~	~
7.2%	558.35	~	~	391.25	2.83	391.50	2.65	392.00	2.26	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorded with Ch. 3 (08-067).
Flaw dimensions assigned from Indication Data sheet 08-067.
Thruwall size was determined by the PATT technique.

TW = 0.369 L = 1.50 S = 1.656 w/clad

Analyst: Teresa Kimball
Level: III
Date: 12-19-93

Reviewed By: R.O. Forman
Level: II
Date: 12-19-93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-069

Exam Data Sheet No.: E-08-23
Ind. Data Sheet No.: 08-073
Indication: 08-073

Flaw Thruwall Dimension =	0.37
Flaw Length "l" =	1.50
Separation with clad "S" =	1.66
Surface Separation "S" =	1.47

T measured =	6.55
Clad T nominal =	0.19

Flaw is unacceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	2.34	2.69 Y
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.34	2.69

a =	0.185
a/l value =	0.123
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.69%
a/t =	2.82%

Comments: Above flaw dimensions were assigned from Indication Data Sheet 08-067.

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet No.: 08-074

Indication: 08-074 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
13.5%	574.60	~	~	~	~	388.75	5.19	~	~	~	~	~
44.3%	574.85	~	~	388.50	5.39	388.75	5.21	389.00	5.01	~	~	~
44.3%	575.10	~	~	388.00	5.72	388.75	5.19	389.00	5.01	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the PATT technique.

TW = 0.56 L = 0.50 S = 3.55

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

EXAM-DS3 V.2 10/22/93

12/19/9308-074.XLS

125 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-069

Exam Data Sheet No.: E-08-23
Ind. Data Sheet No.: 08-074
Indication: 08-074

Flaw Thruwall Dimension =	0.56
Flaw Length "l" =	0.50
Separation with clad "S" =	N/A
Surface Separation "S" =	3.55

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	5.20	7.60 Y
			Allowed	Allowed
			5.20	7.60

a =	0.280
a/l value =	0.500
Y =	1.000

Flaw is Subsurface

Allowed a/t =	7.60%
a/t =	4.39%

Comments:

R 1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet No.: 08-075

Indication: 08-075 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
18.5%	545.75	~	~	~	~	388.75	4.54	~	~	~	~	~
25.2%	546.00	~	~	388.50	4.76	388.75	4.54	~	~	~	~	~
39.1%	546.25	~	~	387.50	5.63	388.75	4.54	389.00	4.37	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the PATT technique.

TW = 0.39 L = 0.50 S = 2.48 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R 1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-069

Exam Data Sheet No.: E-08-23
Ind. Data Sheet No.: 08-075
Indication: 08-075

Flaw Thruwall Dimension =	0.39
Flaw Length "l" =	0.50
Separation with clad "S" =	2.48
Surface Separation "S" =	2.29

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	4.88	5.66 Y
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			4.88	5.66

a =	0.195
a/l value =	0.390
Y =	1.000

Flaw is Subsurface

Allowed a/t =	5.66%
a/t =	3.06%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet No.: 08-076

Indication: 08-076 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
23.7%	548.25	~	~	388.25	6.06	388.75	5.63	~	~	~	~	~
47.2%	548.50	~	~	387.75	6.50	388.75	5.63	389.75	4.78	~	~	~
41.6%	548.75	~	~	388.00	6.26	388.50	5.84	389.50	5.00	~	~	~
32.4%	549.00	~	~	388.25	6.06	388.75	5.84	389.00	5.44	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorded with Ch. 7 (08-071).
Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the PATT technique.

TW = 0.25 L = 0.75 S = 3.06 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-069

Exam Data Sheet No.: E-08-23
Ind. Data Sheet No.: 08-076
Indication: 08-076

Flaw Thruwall Dimension =	0.25
Flaw Length "l" =	0.75
Separation with clad "S" =	3.06
Surface Separation "S" =	2.87

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	2.60	3.03 Y
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.60	3.03

a =	0.125
a/l value =	0.167
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.03%
a/t =	1.96%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet No.: 08-077

Indication: 08-077 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
30.4%	562.25	391.25	2.17	~	~	391.50	1.96	~	~	391.75	1.81	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: This indication also seen with Ch. 5 (see 08-069).
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

TW = 0.00 L = 0.25 S = .8543 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-23
Patch ID: BF-069
Ind. Data Sheet No.: 08-078

Indication: 08-078 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
28.6%	551.75	~	~	395.25	3.30	395.50	3.52	395.25	4.18	~	~	~
34.5%	552.00	~	~	395.00	3.14	395.50	3.52	396.25	4.18	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the PATT technique.

TW = 0.40 L = 0.25 S = 1.91 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-069

Exam Data Sheet No.: E-08-23
Ind. Data Sheet No.: 08-078
Indication: 08-078

Flaw Thruwall Dimension =	0.40
Flaw Length "l" =	0.25
Separation with clad "S" =	1.91
Surface Separation "S" =	1.72

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	5.20	7.60 Y
			Allowed	Allowed
			5.20	7.60

a =	0.200
a/l value =	0.500
Y =	1.000

Flaw is Subsurface

Allowed a/t =	7.60%
a/t =	3.13%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-24
Patch ID: BF-070
Ind. Data Sheet No.: 08-079

Indication: 08-079 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
10.5%	625.50	~	~	~	~	390.45	18.96	~	~	~	~	~
15.3%	625.75	~	~	~	~	389.45	26.96	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the PATT technique.

TW = 0.57 L = 0.50 S = 0.675 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

134 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-070

Exam Data Sheet No.: E-08-24
Ind. Data Sheet No.: 08-079
Indication: 08-079

Flaw Thruwall Dimension =	0.57
Flaw Length "l" =	0.50
Separation with clad "S" =	0.68
Surface Separation "S" =	0.49

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	5.20	7.60 Y
			Allowed	Allowed
			5.20	7.60

a =	0.285
a/l value =	0.500
Y =	1.000

Flaw is Subsurface

Allowed a/t =	7.60%
a/t =	4.46%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-24
Patch ID: BF-070
Ind. Data Sheet No.: 08-080

Indication: 08-080 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
19.6%	648.50	~	~	~	~	389.70	26.16	~	~	~	~	~
18.5%	948.75	~	~	~	~	389.70	26.16	~	~	~	~	~
30.4%	649.00	~	~	~	~	389.70	26.16	~	~	~	~	~
8.2%	649.25	~	~	~	~	389.70	26.08	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Thruwall size was determined by the PATT technique.

TW = 0.31 L = 1.00 S = 1.19 with clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-070

Exam Data Sheet No.: E-08-24
Ind. Data Sheet No.: 08-080
Indication: 08-080

Flaw Thruwall Dimension =	0.31
Flaw Length "l" =	1.00
Separation with clad "S" =	1.19
Surface Separation "S" =	1.00

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	2.53	2.94 Y
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.53	2.94

a =	0.155
a/l value =	0.155
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.94%
a/t =	2.43%

Comments:

EXAM-DS4 V.1 10/3/93 IWB08080.XLS12/19/93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project:	TVA, Browns Ferry, Unit 3	**Exam Data Sheet No.:**	E-08-24
Weld ID:	C-2-3	**Patch ID:**	BF-070
Cal. ID:	C-004	**Ind. Data Sheet No.:**	08-081

Indication: 08-081 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
4.4%	606.35	~	~	~	~	389.75	3.98	~	~	~	~	~
13.5%	606.60	~	~	389.00	4.53	389.50	4.18	390.00	3.81	~	~	~
13.5%	606.85	~	~	389.00	4.53	389.50	4.16	390.25	3.69	~	~	~
12.7%	607.10	~	~	389.00	4.53	389.75	4.00	390.25	3.67	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the PATT technique.

TW = 0.30 L = 0.75 S = 2.79 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

138 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-070

Exam Data Sheet No.: E-08-24
Ind. Data Sheet No.: 08-081
Indication: 08-081

Flaw Thruwall Dimension =	0.30
Flaw Length "l" =	0.75
Separation with clad "S" =	2.79
Surface Separation "S" =	2.60

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	2.80	3.30 Y
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.80	3.30

a =	0.150
a/l value =	0.200
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.30%
a/t =	2.35%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-24
Patch ID: BF-070
Ind. Data Sheet No.: 08-082

Indication: 08-082 **Channel:** 7 **Angle:** 45 **Direction:** 0

		20%		50%		@ Max		50%		20%		
Amp.	**X**	**Min Y**	**MP**	**Min Y**	**MP**	**Y**	**MP**	**Max Y**	**MP**	**Max Y**	**MP**	**Remarks**
16.3%	619.10	~	~	~	~	388.25	5.91	~	~	~	~	~
22.3%	619.35	~	~	387.50	6.41	388.25	5.87	388.75	5.51	~	~	~
14.4%	619.60	~	~	387.75	6.24	388.00	6.06	388.75	5.53	~	~	~
13.5%	619.85	~	~	387.25	6.60	388.00	6.06	388.25	5.87	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.
This indication also seen with Ch. 9 (not recorded due to less than ASME DAC level
and no apparent tip signals).

TW = 0.20 L = 0.75 S = 2.35

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

140 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-070

Exam Data Sheet No.: E-08-24
Ind. Data Sheet No.: 08-082
Indication: 08-082

Flaw Thruwall Dimension =	0.20
Flaw Length "l" =	0.75
Separation with clad "S" =	N/A
Surface Separation "S" =	2.35

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	2.39	2.76 Y
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.39	2.76

a =	0.099
a/l value =	0.132
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.76%
a/t =	1.55%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-24
Patch ID: BF-070
Ind. Data Sheet No.: 08-083

Indication: 08-083 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
34.5%	607.50	~	~	387.75	6.44	389.00	5.41	389.25	5.19	~	~	~
16.3%	607.75	~	~	~	~	389.00	5.41	~	~	~	~	~
15.3%	608.00	~	~	~	~	389.00	5.41	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
This indication also seen with Ch. 13 (not recorded due to less than ACME DAC level and no apparent tip signals).
Thruwall size was determined by the SPOT technique.

TW = 0.30 L = 0.50 S = 2.56 with clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

142 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-070

Exam Data Sheet No.: E-08-24
Ind. Data Sheet No.: 08-083
Indication: 08-083

Flaw Thruwall Dimension =	0.30	*T nominal =*	6.38
Flaw Length "l" =	0.50	*Clad T nominal =*	0.19
Separation with clad "S" =	2.56		
Surface Separation "S" =	2.37		

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	3.80	4.40 Y
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			3.80	4.40

a =	0.150
a/l value =	0.300
Y =	1.000

Flaw is Subsurface

Allowed a/t =	4.40%
a/t =	2.35%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-25
Patch ID: BF-071
Ind. Data Sheet No.: 08-084

Indication: 08-084 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
30.4%	709.75	~	~	~	~	391.20	17.84	~	~	~	~	~
25.2%	710.00	~	~	~	~	389.95	27.44	~	~	~	~	~
23.7%	710.25	~	~	~	~	389.95	27.36	~	~	~	~	~
14.4%	710.50	~	~	~	~	391.20	17.92	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the PATT technique.

TW = 0.23 L = 1.00 S = 0.723 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

144 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-071

Exam Data Sheet No.: E-08-25
Ind. Data Sheet No.: 08-084
Indication: 08-084

Flaw Thruwall Dimension =	0.23
Flaw Length "l" =	1.00
Separation with clad "S" =	0.72
Surface Separation "S" =	0.53

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	2.30	2.63 Y
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.30	2.63

a =	0.116
a/l value =	0.116
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.63%
a/t =	1.82%

Comments:

EXAM-DS4 VH-

EXAM-DS4LS12/6/93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-25
Patch ID: BF-071
Ind. Data Sheet No.: 08-085

Indication: 08-085 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
7.2%	719.50	~	~	~	~	390.20	21.20	~	~	~	~	~
20.9%	719.75	~	~	~	~	390.20	20.16	~	~	~	~	~
17.3%	720.00	~	~	~	~	390.20	20.24	~	~	~	~	~
9.9%	720.25	~	~	~	~	390.45	18.72	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

146 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-25
Patch ID: BF-071
Ind. Data Sheet No.: 08-086

Indication: 08-086 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
22.3%	721.75	~	~	~	~	391.45	17.36	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-25
Patch ID: BF-071
Ind. Data Sheet No.: 08-087

Indication: 08-087 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
17.3%	696.60	~	~	389.00	4.63	389.25	4.45	389.50	4.27	~	~	~
25.2%	696.85	~	~	389.00	4.61	389.25	4.45	389.75	4.07	~	~	~
15.3%	697.10	~	~	389.00	4.61	389.25	4.45	389.75	4.07	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.
Same indication recorded with Ch. 11 (08-089).

TW = 0.28 L = 0.50 S = 3.01 w/clad

Analyst: Louisa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-071

Exam Data Sheet No.: E-08-25
Ind. Data Sheet No.: 08-087
Indication: 08-087

Flaw Thruwall Dimension =	0.28
Flaw Length "l" =	0.50
Separation with clad "S" =	3.01
Surface Separation "S" =	2.82

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	3.60	4.16 Y
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			3.60	4.16

a =	0.140
a/l value =	0.280
Y =	1.000

Flaw is Subsurface

Allowed a/t =	4.16%
a/t =	2.19%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-25
Patch ID: BF-071
Ind. Data Sheet No.: 08-088

Indication: 08-088 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
50.2%	695.85	~	~	~	~	381.00	9.55	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication seen with Ch. 8 at less than ASME required DAC level.
13.05 dB below Notch sensitivity.

Analyst: Clerra Kimball
Level: III
Date: 12-19-93

Reviewed By: R.O. Forman
Level: II
Date: 12-19-93

150 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-25
Patch ID: BF-071
Ind. Data Sheet No.: 08-089

Indication: 08-089 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
28.6%	696.75	~	~	~	~	388.25	5.00	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.
Same indication recorded with Ch. 7 (08-087).

TW = 0.28 L = 0.25 S = 2.36 with clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-071

Exam Data Sheet No.: E-08-25
Ind. Data Sheet No.: 08-089
Indication: 08-089

Flaw Thruwall Dimension =	0.28
Flaw Length "l" =	0.25
Separation with clad "S" =	2.36
Surface Separation "S" =	2.17
T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	5.20	7.60 Y
			Allowed	Allowed
			5.20	7.60

a =	0.140
a/l value =	0.500
Y =	1.000

Flaw is Subsurface

Allowed a/t =	7.60%
a/t =	2.19%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-090

Indication: 08-090
Channel: 1
Angle: 0
Direction: 0

		20%		50%		@ Max		50%		20%		
Amp.	**X**	**Min Y**	**MP**	**Min Y**	**MP**	**Y**	**MP**	**Max Y**	**MP**	**Max Y**	**MP**	**Remarks**
44.3%	756.40	~	~	~	~	393.50	5.00	~	~	~	~	~
60.6%	756.65	~	~	~	~	393.50	4.98	~	~	~	~	~
82.9%	756.90	~	~	392.75	5.08	393.50	5.00	393.75	5.02	~	~	~
82.9%	757.15	~	~	392.75	5.06	393.00	5.05	393.50	5.02	~	~	~
120.6%	757.40	~	~	392.75	5.08	393.25	5.02	393.50	5.00	~	~	~
73.1%	757.65	~	~	~	~	393.25	5.02	~	~	~	~	End of scan
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: This indication also recorded with channel 2 indication 08-091.
Indication evaluated as a laminar reflector and is acceptable in accordance with IWB-3510-2, ASME Section XI, 1986 Edition, no Addenda.

Analyst: Teresa Kimball
Level: III
Date: 12-19-93

Reviewed By: R.O. Forman
Level: II
Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-091

Indication: 08-091 **Channel:** 2 **Angle:** 0 **Direction:** 90

Amp.	Y	20% Min X	MP	50% Min X	MP	@ Max X	MP	50% Max X	MP	20% Max X	MP	Remarks
64.5%	393.00	~	~	756.85	5.19	757.10	5.19	757.60	5.19	~	~	~
225.7%	393.25	~	~	756.85	5.17	757.60	5.12	758.10	5.17	~	~	~
165.0%	393.50	~	~	757.10	5.10	757.85	5.12	758.35	5.14	~	~	~
165.0%	393.75	~	~	756.60	5.07	757.10	5.07	757.60	5.10	~	~	~
47.2%	394.00	~	~	~	~	757.60	5.12	~	~	~	~	~
60.6%	394.25	~	~	757.35	5.17	757.60	5.19	~	~	~	~	~
41.6%	394.50	~	~	~	~	757.35	5.20	~	~	~	~	~
50.2%	394.75	~	~	~	~	757.35	5.23	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Same indication recorde with Ch. 1 (08-090).
Indication evaluated as a laminar reflector and is acceptable in accordance with IWB-3510-2,
ASME Section XI, 1986Edition, no Addenda.

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

154 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project:	TVA, Browns Ferry, Unit 3	**Exam Data Sheet No.:**	E-08-26
Weld ID:	C-2-3	**Patch ID:**	BF-072
Cal. ID:	C-004	**Ind. Data Sheet No.:**	08-092

Indication: 08-092 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
16.3%	739.25	~	~	~	~	390.20	27.36	~	~	~	~	~
25.2%	739.50	~	~	~	~	390.45	25.20	~	~	~	~	~
30.4%	739.75	~	~	~	~	390.20	27.20	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

Analyst:	Dena Kimball	Reviewed By:	R.O. Forman
Level: III	Date: 12-19-93	Level: II	Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project:	TVA, Browns Ferry, Unit 3	**Exam Data Sheet No.:**	E-08-26
Weld ID:	C-2-3	**Patch ID:**	BF-072
Cal. ID:	C-004	**Ind. Data Sheet No.:**	08-093

Indication: 08-093 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
18.5%	746.00	~	~	~	~	391.45	18.80	~	~	~	~	~
28.6%	746.25	~	~	~	~	391.45	18.80	~	~	~	~	~
25.2%	746.50	~	~	~	~	391.45	18.88	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-094

Indication: 08-094 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
11.9%	753.25	~	~	~	~	390.70	15.92	~	~	~	~	~
28.6%	753.50	~	~	~	~	390.95	14.40	~	~	~	~	~
36.7%	753.75	~	~	~	~	390.70	16.08	~	~	~	~	~
13.5%	754.00	~	~	~	~	390.95	14.40	~	~	~	~	~
12.7%	754.25	~	~	~	~	390.95	13.60	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

Analyst: Alesa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

157 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-095

Indication: 08-095 **Channel:** 3 **Angle:** 70 **Direction:** 0

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
14.4%	757.25	~	~	~	~	390.70	15.84	~	~	~	~	~
19.6%	757.50	~	~	~	~	390.95	13.84	~	~	~	~	~
23.7%	757.75	~	~	~	~	390.95	13.92	~	~	~	~	~
9.3%	758.00	~	~	~	~	390.95	13.84	~	~	~	~	~
22.3%	758.25	~	~	~	~	390.45	17.36	~	~	~	~	~
28.6%	758.50	~	~	~	~	390.45	17.44	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Thruwall size was determined by the PATT technique.

TW = 0.34 L = 1.50 S = 0.37 w/clad

Analyst: Verna Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

158 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-072

Exam Data Sheet No.: E-08-26
Ind. Data Sheet No.: 08-095
Indication: 08-095

Flaw Thruwall Dimension =	0.34
Flaw Length "l" =	1.50
Separation with clad "S" =	0.37
Surface Separation "S" =	0.18

T measured =	6.60
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	2.27	2.60 Y
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.27	2.60

a =	0.168
a/l value =	0.112
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.60%
a/t =	2.55%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-096

Indication: 08-096 **Channel:** 5 **Angle:** 70 **Direction:** 180

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
13.5%	724.15	~	~	~	~	395.05	28.16	~	~	~	~	~
34.5%	724.40	~	~	~	~	395.05	28.80	~	~	~	~	~
32.4%	724.65	~	~	~	~	395.05	28.96	~	~	~	~	~
22.3%	724.90	~	~	~	~	395.05	29.12	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project:	TVA, Browns Ferry, Unit 3	**Exam Data Sheet No.:**	E-08-26
Weld ID:	C-2-3	**Patch ID:**	BF-072
Cal. ID:	C-004	**Ind. Data Sheet No.:**	08-097

Indication: 08-097 **Channel:** 5 **Angle:** 70 **Direction:** 180

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
10.5%	744.90	~	~	~	~	394.55	24.32	~	~	~	~	~
30.4%	745.15	~	~	~	~	394.55	24.08	~	~	~	~	~
19.6%	745.40	~	~	~	~	394.80	26.48	~	~	~	~	~
17.3%	745.65	~	~	~	~	394.80	26.40	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

161 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-098

Indication: 08-098
Channel: 5
Angle: 70
Direction: 180

Amp.	X	20% Min Y	TOF	50% Min Y	TOF	@ Max Y	TOF	50% Max Y	TOF	20% Max Y	TOF	Remarks
8.2%	747.65	~	~	~	~	394.80	26.40	~	~	~	~	~
11.9%	747.90	~	~	~	~	394.55	24.40	~	~	~	~	~
22.3%	748.15	~	~	~	~	394.55	24.32	~	~	~	~	~
25.2%	748.40	~	~	~	~	394.80	26.32	~	~	~	~	~
13.5%	748.65	~	~	~	~	394.80	27.04	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III
Date: 12-19-93

Reviewed By: R.O. Forman
Level: II
Date: 12-19-93

162 OF 274

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-099

Indication: 08-099 **Channel:** 7 **Angle:** 45 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
12.7%	731.85	~	~	389.50	3.97	390.25	3.24	390.50	3.08	~	~	~
5.6%	732.10	~	~	390.00	3.43	390.25	3.24	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.20 L = 0.25 S = 2.19 w/clad

Analyst: Laura Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-072

Exam Data Sheet No.: E-08-25
Ind. Data Sheet No.: 08-099
Indication: 08-099

Flaw Thruwall Dimension = 0.20
Flaw Length "l" = 0.25
Separation with clad "S" = 2.19
Surface Separation "S" = 2.00

T nominal = 6.38
Clad T nominal = 0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	4.95	5.74 Y
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			4.95	5.74

a = 0.099
a/l value = 0.396
Y = 1.000

Flaw is Subsurface

Allowed a/t = 5.74%
a/t = 1.55%

Comments:

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-100

Indication: 08-100 **Channel:** 9 **Angle:** 45 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
41.6%	744.75	393.75	1.92	~	~	394.00	2.14	~	~	394.25	2.33	~
60.6%	745.00	393.50	1.77	~	~	394.00	2.14	~	~	394.50	2.50	~
57.0%	745.25	393.50	1.77	~	~	394.00	2.17	~	~	394.50	2.50	~
32.4%	745.50	393.75	1.92	~	~	394.00	2.14	~	~	394.25	2.33	~
11.2%	745.75	~	~	~	~	394.00	2.14	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

TW = 0.00 L = 1.00 S = 1.27 w/clad

Analyst: Laura Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-101

Indication: 08-101 **Channel:** 9 **Angle:** 45 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
20.9%	750.50	394.00	2.17	~	~	394.25	2.36	~	~	~	~	~
44.3%	750.75	393.75	2.01	~	~	394.00	2.23	~	~	394.50	2.50	~
32.4%	751.00	393.75	2.04	~	~	394.00	2.19	~	~	394.50	2.55	~
14.4%	751.25	~	~	~	~	394.00	2.17	~	~	~	~	~
22.3%	751.50	394.00	2.18	~	~	394.25	2.36	~	~	~	~	~
47.2%	751.75	393.75	2.01	~	~	394.25	2.36	~	~	~	~	~
14.4%	752.00	~	~	~	~	394.00	2.18	~	~	394.50	2.57	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

TW = 0.00 L = 1.50 S = 1.668 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-102

Indication: 08-102 **Channel:** 9 **Angle:** 45 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
18.5%	754.00	~	~	~	~	394.00	2.08	~	~	~	~	~
22.3%	754.25	394.00	2.08	~	~	394.25	2.22	~	~	394.50	2.39	~
41.6%	754.50	393.75	1.94	~	~	394.25	2.22	~	~	394.50	2.39	~
26.9%	754.75	393.75	2.01	~	~	394.00	2.06	~	~	394.50	2.39	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

TW = 0.0 L = .75 S = 1.569 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-103

Indication: 08-103 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
113.4%	727.00	390.00	2.56	390.50	2.10	391.00	1.68	~	~	391.50	1.26	~
82.9%	727.25	390.25	2.30	390.75	1.86	391.00	1.66	391.25	1.45	~	~	~
77.9%	727.50	390.25	2.30	390.75	1.88	391.00	1.66	391.25	1.45	391.50	1.33	~
30.4%	727.75	390.50	2.10	~	~	390.75	1.88	~	~	391.25	1.52	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Thruwall size was determined by the ASME 50% method.

TW = .325 L = .75 S = .67 w/clad

Analyst: Laura Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-072

Exam Data Sheet No.: E-08-26
Ind. Data Sheet No.: 08-103
Indication: 08-103

Flaw Thruwall Dimension =	0.33
Flaw Length "l" =	0.75
Separation with clad "S" =	0.67
Surface Separation "S" =	0.48

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	2.97	3.47 Y
0.25	3.30	3.8	~	~
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			2.97	3.47

a =	0.163
a/l value =	0.217
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.47%
a/t =	2.55%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-104

Indication: 08-104 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
41.6%	739.25	391.00	2.44	~	~	391.50	1.97	~	~	391.75	1.71	~
50.2%	739.50	391.00	2.44	~	~	391.75	1.75	~	~	~	~	~
41.6%	739.75	309.75	2.70	~	~	391.50	1.97	~	~	391.75	1.75	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

TW = 0.0 L = .50 S = .875 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-105

Indication: 08-105 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
36.7%	746.00	391.25	2.36	~	~	391.75	1.86	~	~	392.00	1.55	~
41.6%	746.25	390.25	3.30	~	~	391.75	1.86	~	~	392.00	1.55	~
28.6%	746.50	390.25	3.28	~	~	391.75	1.86	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Thruwall size was determined by the SPOT technique.

TW = .34 L = .5 S = .76 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R. O. Forman
Level: II Date: 12-19-93

171 OF 276

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-072

Exam Data Sheet No.: E-08-26
Ind. Data Sheet No.: 08-104
Indication: 08-104

Flaw Thruwall Dimension =	0.34
Flaw Length "l" =	0.50
Separation with clad "S" =	0.76
Surface Separation "S" =	0.57

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	~	~
0.30	3.80	4.4	4.28	4.96 Y
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			4.28	4.96

a =	0.170
a/l value =	0.340
Y =	1.000

Flaw is Subsurface

Allowed a/t =	4.96%
a/t =	2.66%

Comments:

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-106

Indication: 08-106 **Channel:** 11 **Angle:** 60 **Direction:** 0

		20%		50%		@ Max		50%		20%		
Amp.	**X**	**Min Y**	**MP**	**Min Y**	**MP**	**Y**	**MP**	**Max Y**	**MP**	**Max Y**	**MP**	**Remarks**
30.4%	751.00	390.25	2.84	~	~	390.75	2.46	~	~	391.2.	2.27	~
20.9%	751.25	~	~	~	~	390.75	2.42	~	~	~	~	~
18.5%	751.50	~	~	~	~	390.75	2.44	~	~	~	~	~
23.7%	751.75	~	~	~	~	390.50	2.68	~	~	390.75	2.54	~
23.7%	752.00	~	~	~	~	390.50	2.86	~	~	390.50	2.68	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

TW = 0.0 L = 1.0 S = 1.23 w/clad

Analyst: CoreaKimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

173 OF 276

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-107

Indication: 08-107 **Channel:** 11 **Angle:** 60 **Direction:** 0

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
20.9%	726.25	394.25	2.34	~	~	394.50	2.58	~	~	~	~	~
20.9%	726.50	~	~	~	~	394.25	2.37	~	~	394.50	2.58	~
20.9%	726.75	~	~	~	~	394.50	2.58	~	~	~	~	~
20.9%	727.00	~	~	~	~	394.50	2.58	~	~	~	~	~
34.5%	727.25	394.00	2.15	~	~	394.25	2.37	~	~	394.50	2.58	~
39.1%	727.50	394.00	2.15	~	~	394.25	2.37	~	~	394.50	2.56	~
50.2%	727.75	393.50	1.81	~	~	394.25	2.37	~	~	394.50	2.58	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

TW = 0.0 L = 1.5 S = 1.185 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

R1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-108

Indication: 08-108 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
20.9%	733.75	394.00	2.10	~	~	394.25	2.32	~	~	394.75	2.78	~
50.2%	734.00	393.75	1.86	~	~	394.00	2.12	~	~	395.00	2.97	~
28.6%	734.25	393.50	1.68	~	~	394.00	2.10	~	~	394.25	2.37	~
36.7%	734.50	393.75	1.88	~	~	394.00	2.12	~	~	394.25	2.37	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

TW = 0.0 L = .75 S = 1.06 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

175 OF 276

R 1154

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-109

Indication: 08-109 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
23.7%	740.50	~	~	~	~	394.25	2.25	~	~	~	~	~
30.4%	740.75	394.00	2.05	~	~	394.25	2.27	~	~	394.75	2.76	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: No apparent tip signals.
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
Indication has no determinable thruwall dimension and is acceptable to IWB-3510-1.

TW = 0.0 L = .25 S = 1.135 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

176 OF 276

R11.54

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-2-3
Cal. ID: C-004

Exam Data Sheet No.: E-08-26
Patch ID: BF-072
Ind. Data Sheet No.: 08-110

Indication: 08-110 **Channel:** 13 **Angle:** 60 **Direction:** 180

Amp.	X	20% Min Y	MP	50% Min Y	MP	@ Max Y	MP	50% Max Y	MP	20% Max Y	MP	Remarks
32.4%	744.75	393.75	1.88	~	~	394.50	2.61	~	~	395.00	3.05	~
53.5%	745.00	393.75	1.93	~	~	394.50	2.61	~	~	395.00	3.02	~
53.5%	745.25	393.75	1.88	~	~	394.50	2.61	~	~	395.00	3.05	~
34.5%	745.50	393.75	1.86	~	~	394.50	2.61	~	~	394.75	2.83	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~

Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = .44 L = .75 S = 1.09 w/clad

Analyst: Alesa Kimball
Level: III Date: 12-19-93

Reviewed By: R.O. Forman
Level: II Date: 12-19-93

EXAM-DS3 V.2 10/22/93

177 OF 276

12/19/9308-110.XLS

R1154

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-2-3
Patch: BF-072

Exam Data Sheet No.: E-08-26
Ind. Data Sheet No.: 08-110
Indication: 08-110

Flaw Thruwall Dimension =	0.44
Flaw Length "l" =	0.75
Separation with clad "S" =	1.09
Surface Separation "S" =	0.90

T nominal =	6.38
Clad T nominal =	0.19

Flaw is acceptable by Table IWB-3510-1

ASME Section XI, 1986 Edition
TABLE IWB-3510-1 for 4" to 12"

a/l	Surface %	Subsurface %	Surface %	Subsurface %
0.00	1.90	2	~	~
0.05	2.00	2.2	~	~
0.10	2.20	2.5	~	~
0.15	2.50	2.9	~	~
0.20	2.80	3.3	~	~
0.25	3.30	3.8	3.73	4.32 Y
0.30	3.80	4.4	~	~
0.35	4.40	5.1	~	~
0.40	5.00	5.8	~	~
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			3.73	4.32

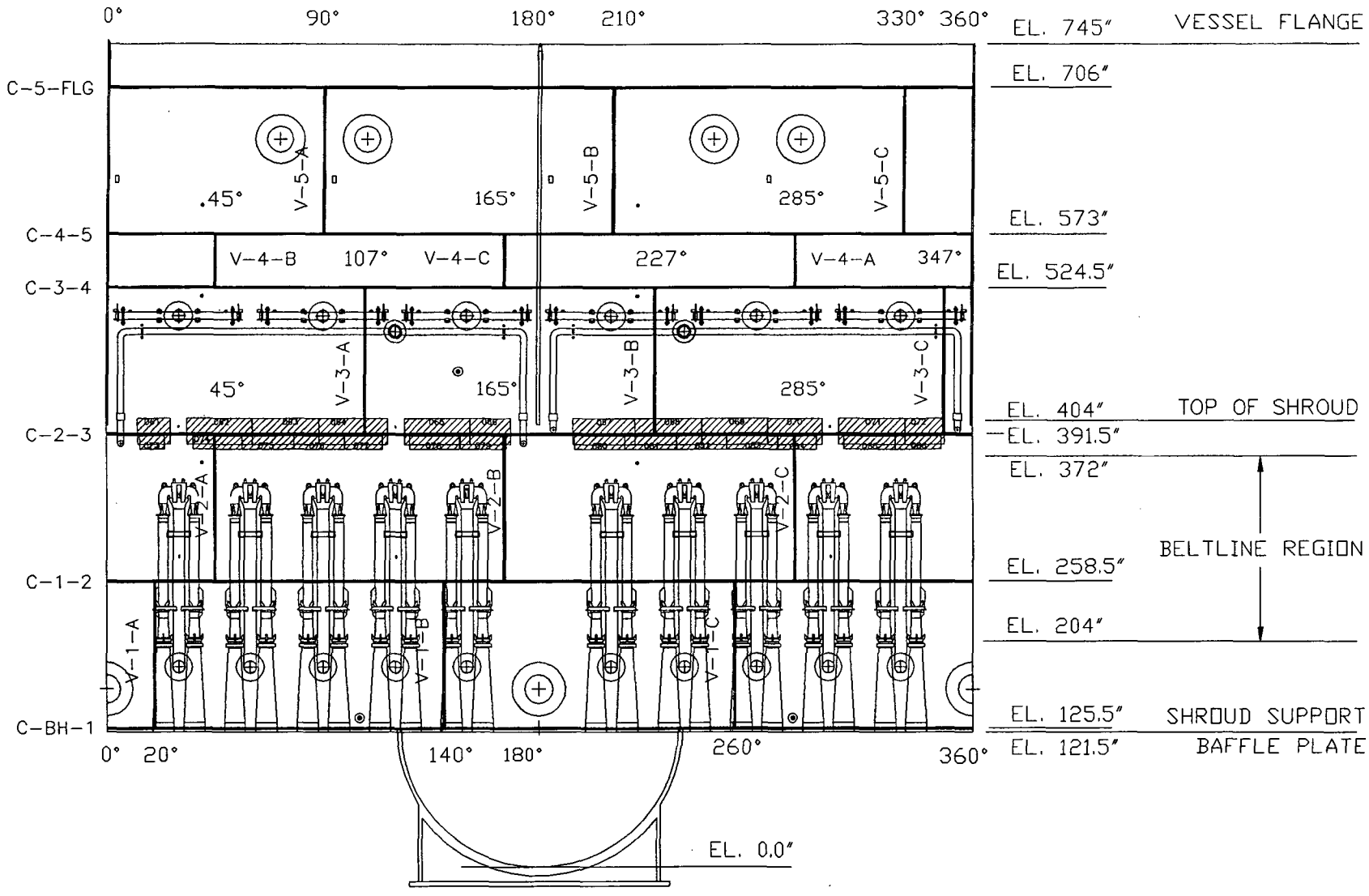
a =	0.220
a/l value =	0.293
Y =	1.000

Flaw is Subsurface

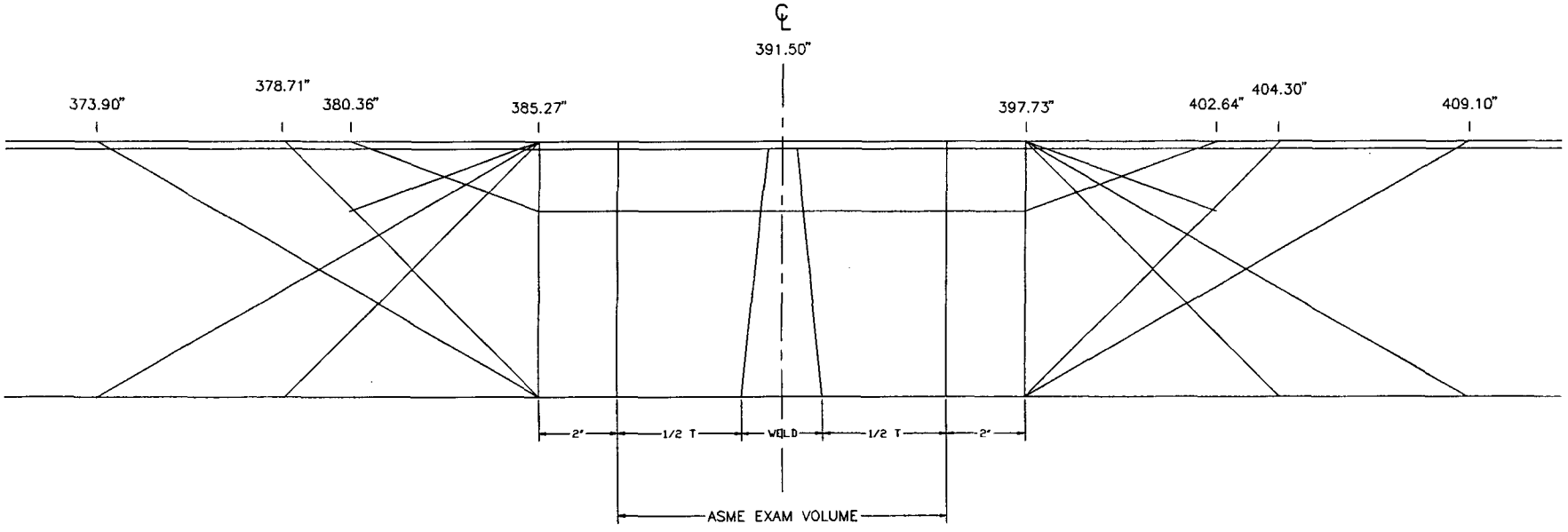
Allowed a/t =	4.32%
a/t =	3.45%

Comments:

BROWNS FERRY UNIT-3 WELD LOCATIONS



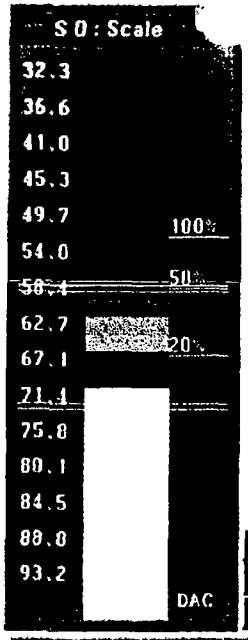
GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	VESSEL ROLLOUT & AS SCANNED PATCH LOCATIONS	BF-3-VMA	REV 0

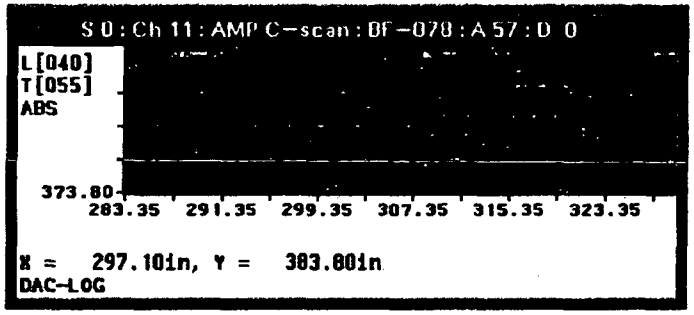


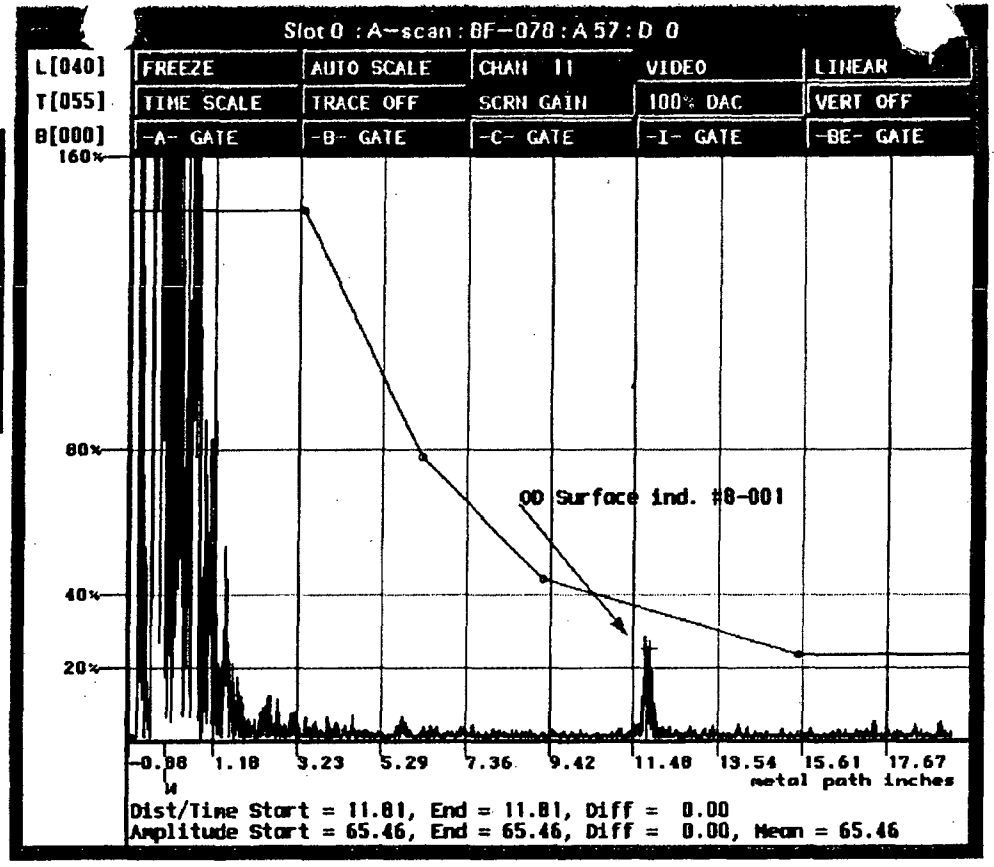
Nominal Clad T = 3/16"
Nominal Base Metal T = 6 3/8"

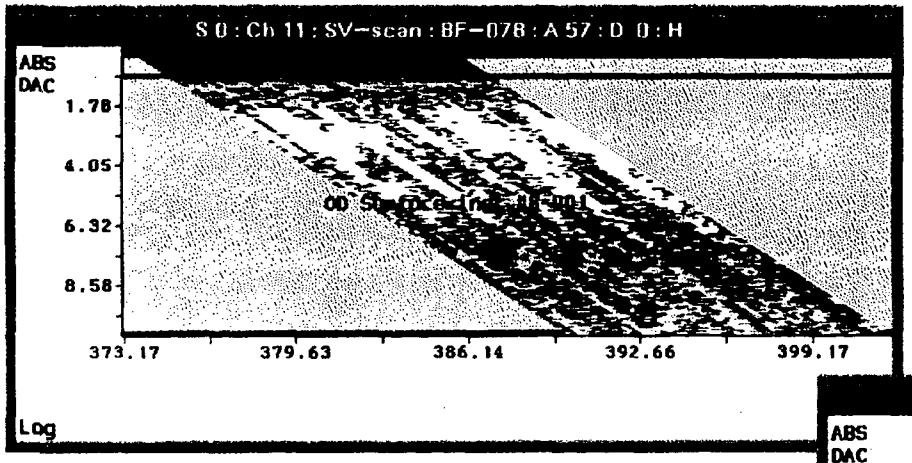
CH.	ANGLE	DIR.	MIN Y	MAX Y
1	0 W	0	385.27	397.73
2	0 W	90	385.27	397.73
3	70 UP	0	380.36	397.73
4	70 CW	90	385.27	397.73
5	70 DN	180	385.27	402.64
6	70 CCW	270	385.27	397.73
7	45 UP	0	378.71	397.73
8	45 CW	90	385.27	397.73
9	45 DN	180	385.27	404.30
10	45 CCW	270	385.27	397.73
11	60 UP	0	373.90	397.73
12	60 CW	90	385.27	397.73
13	60 DN	180	385.27	409.10
14	60 CCW	270	385.27	397.73
15	0 BM	0	385.27	409.10
16	0 BM	90	373.90	397.73

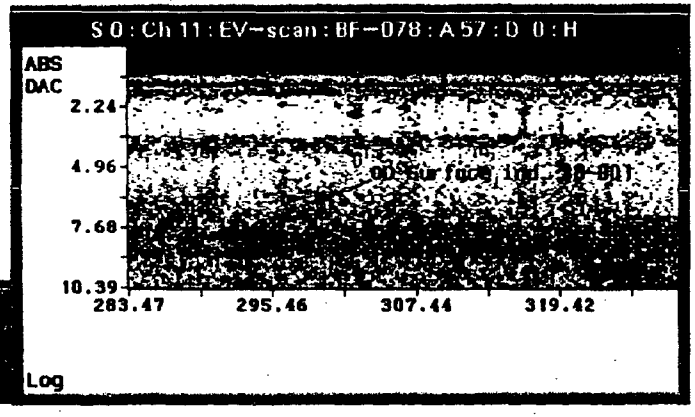
GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	WELD C-2-3 EXAM VOLUME	SCALE: NONE	DWG. BF3C-2-3	REV. 0

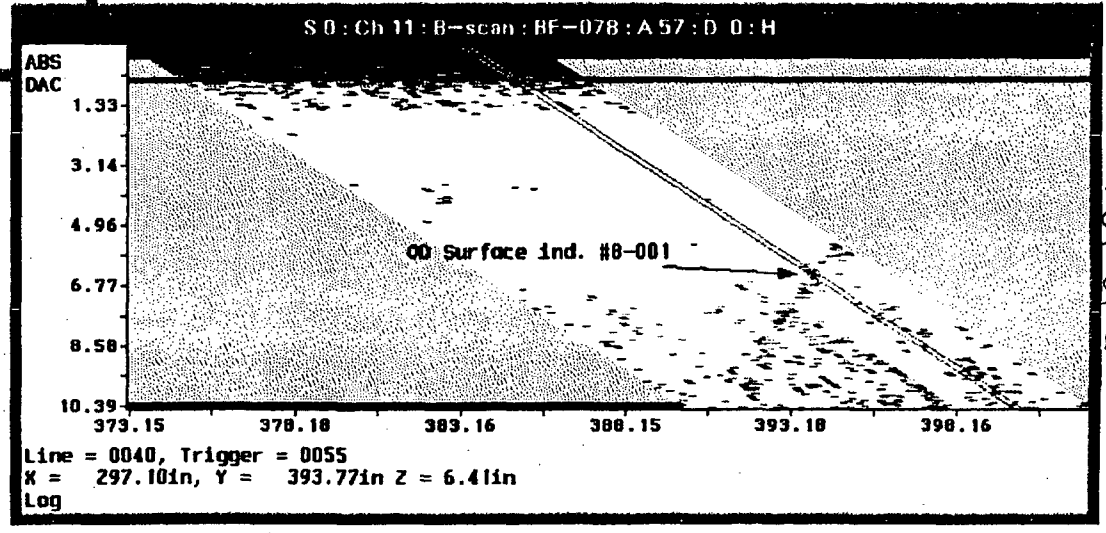


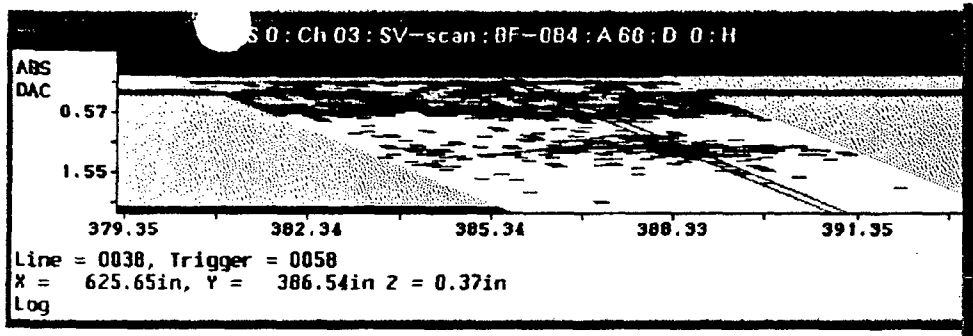


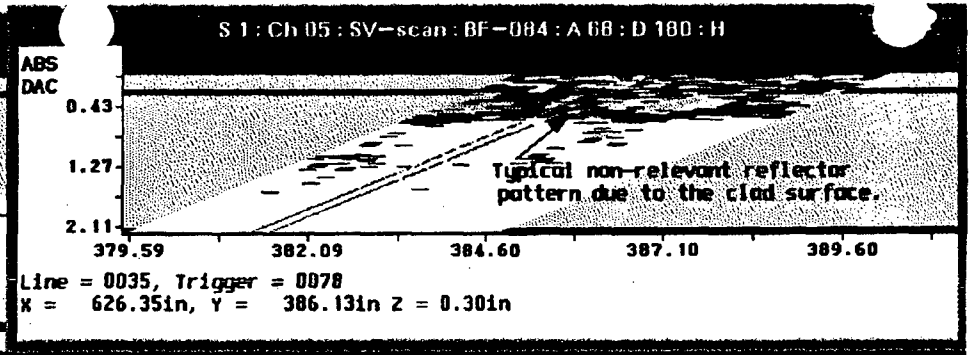


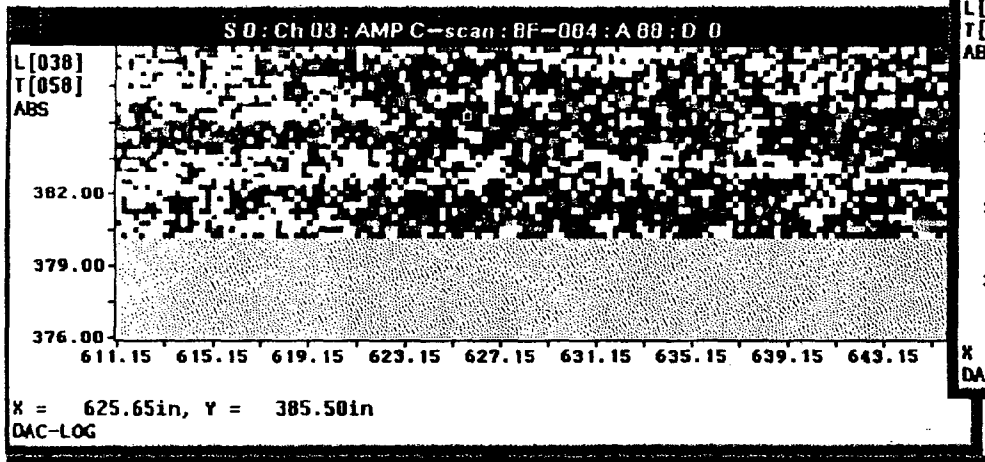


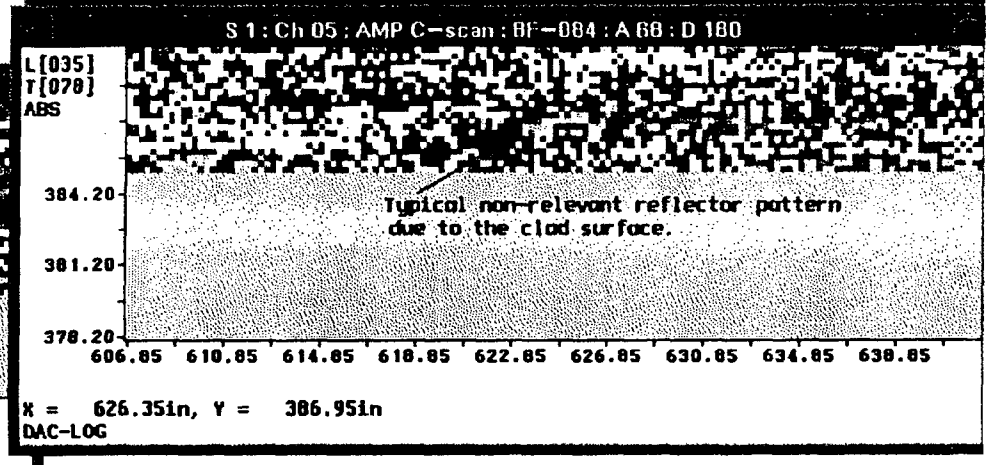


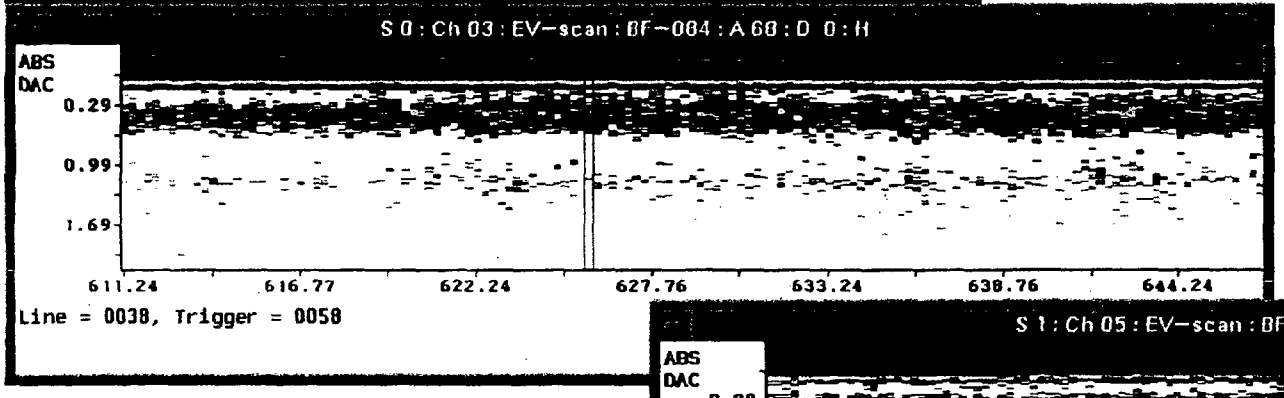


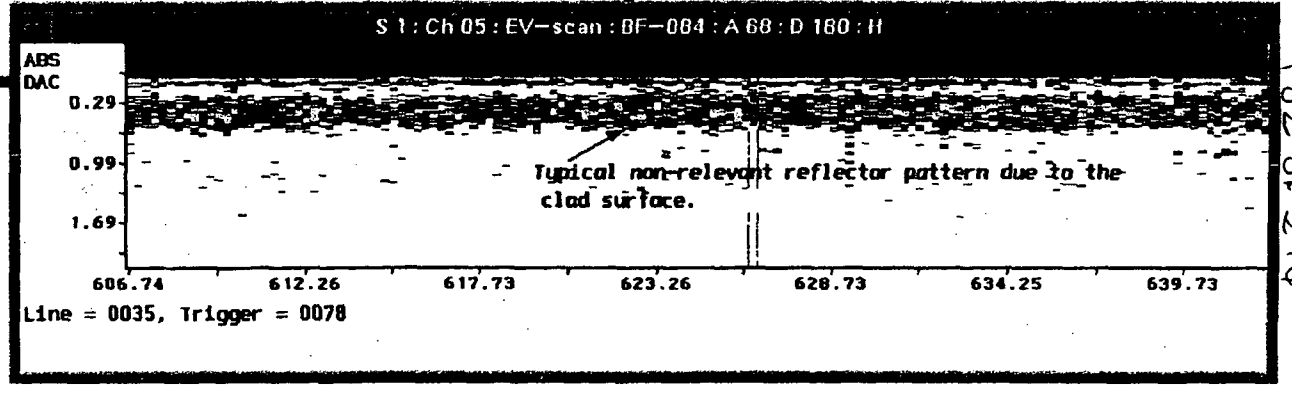


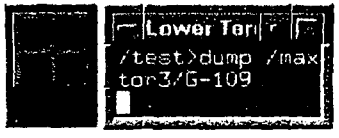


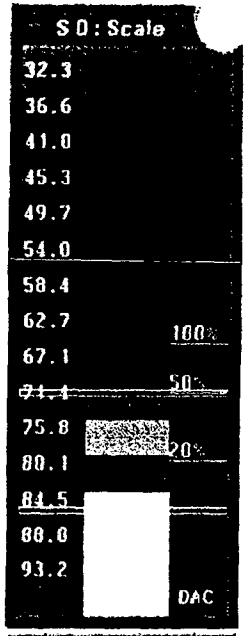


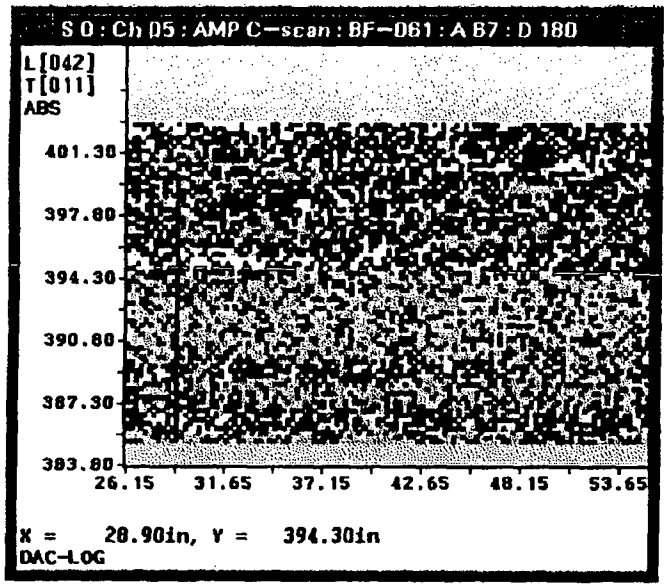


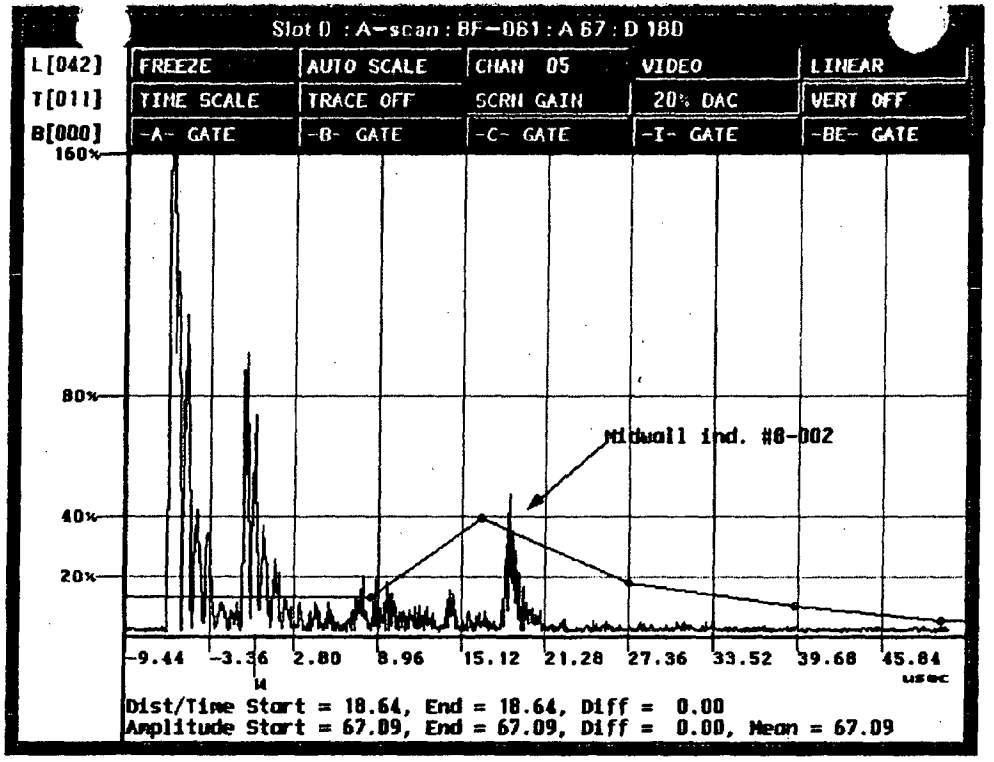


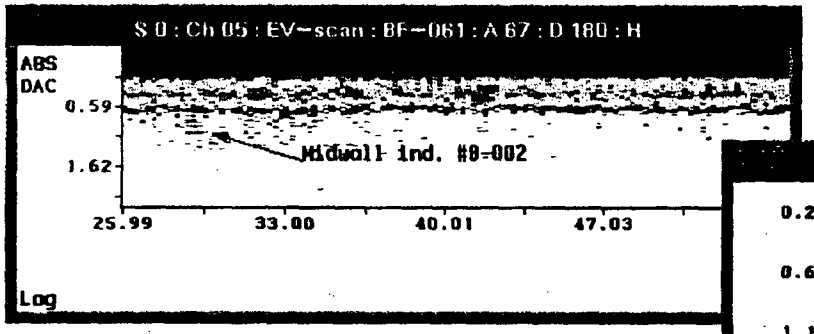


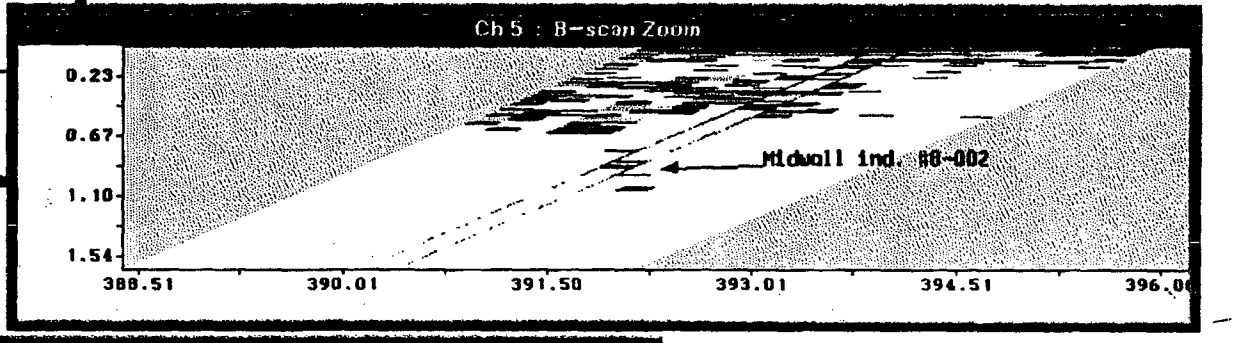


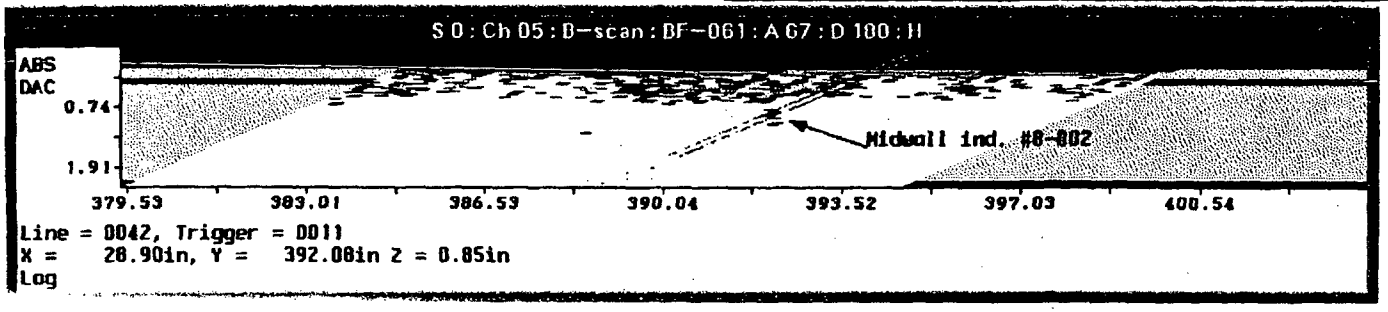


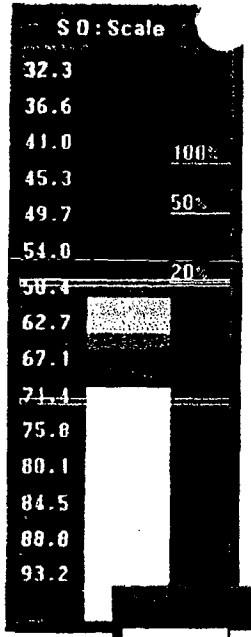


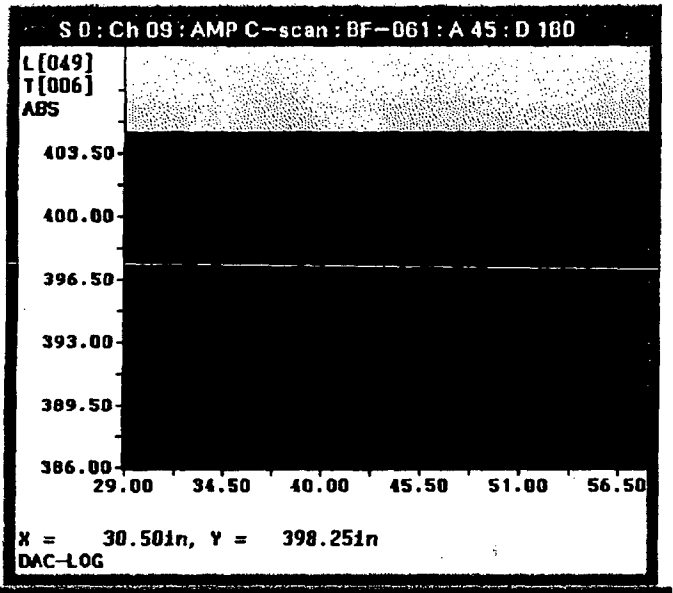


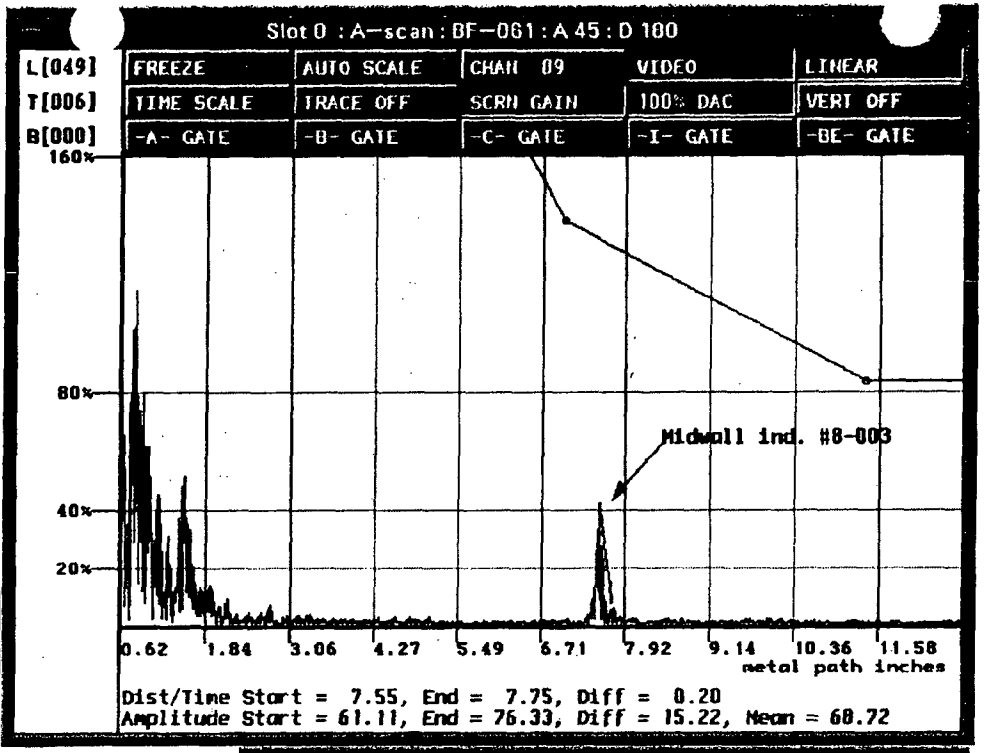


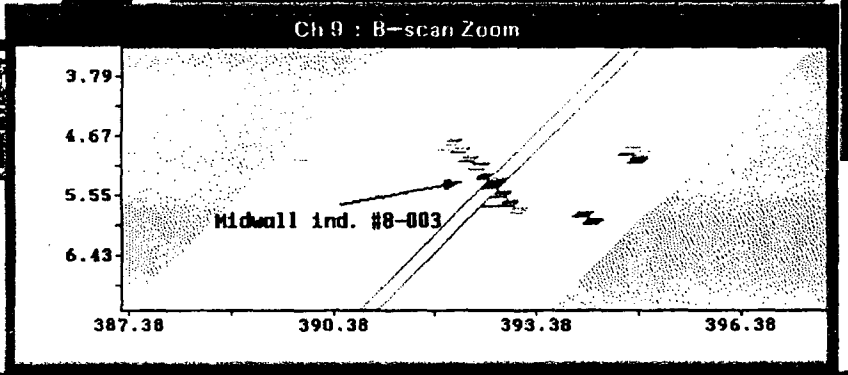


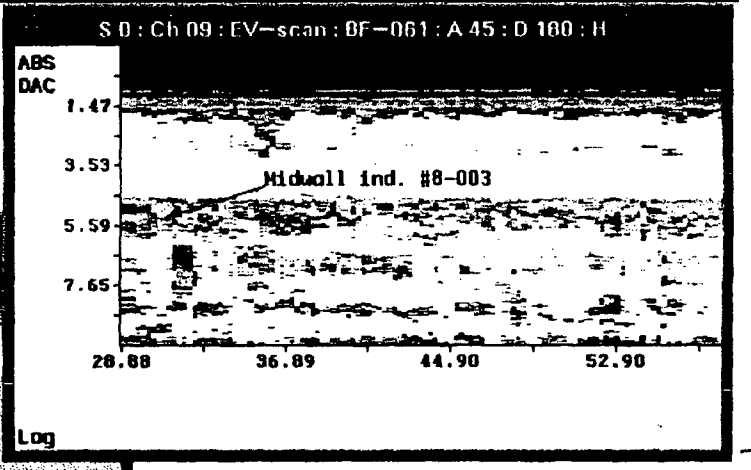


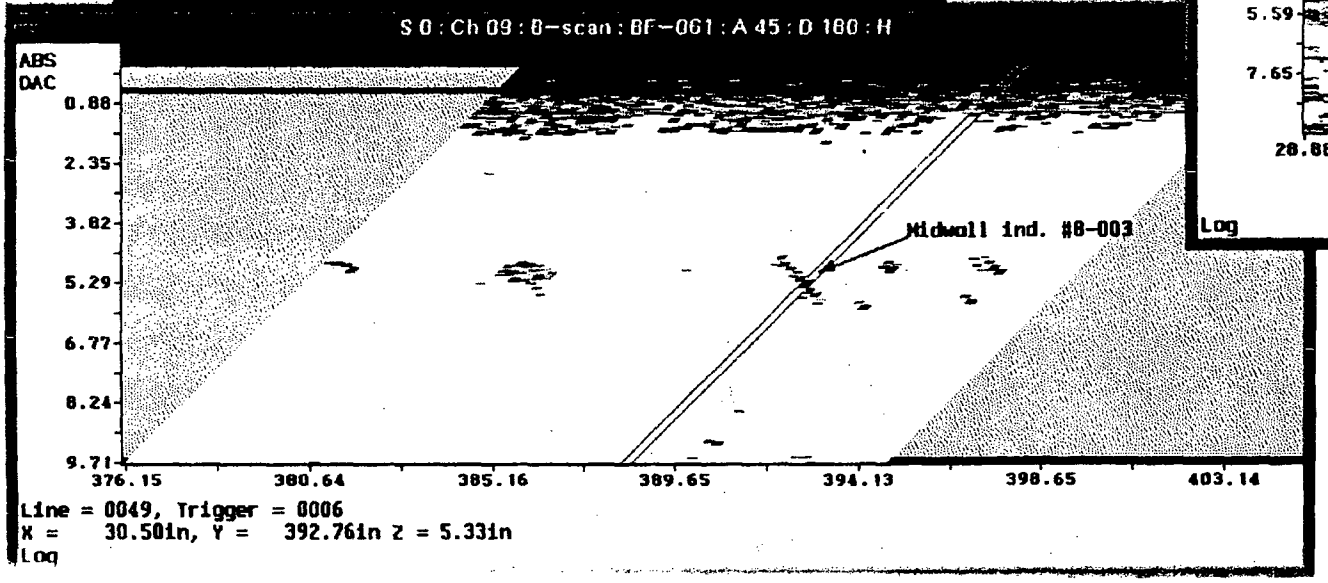


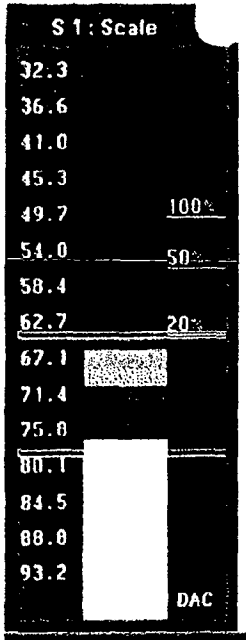


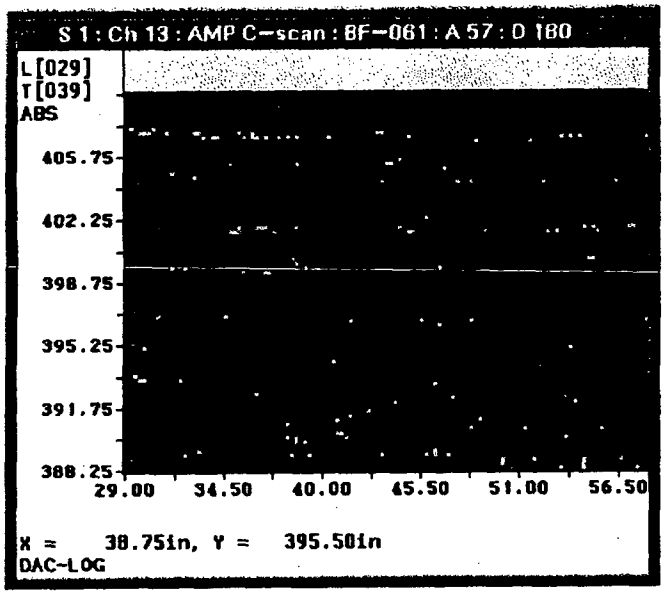


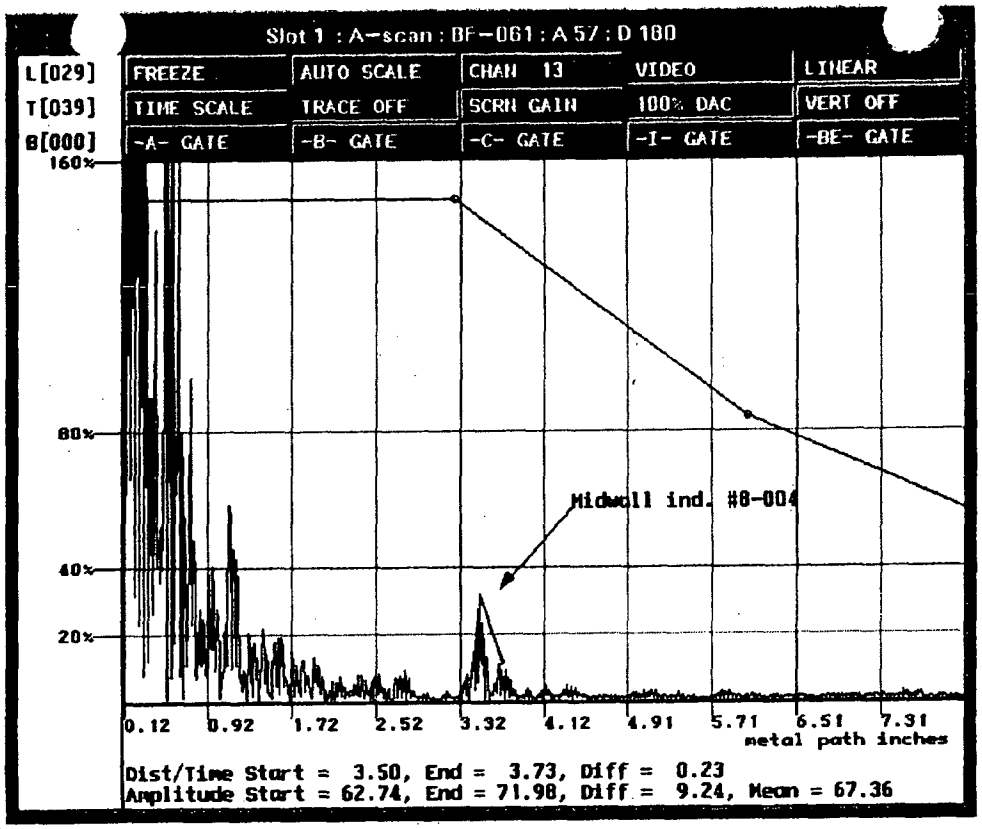


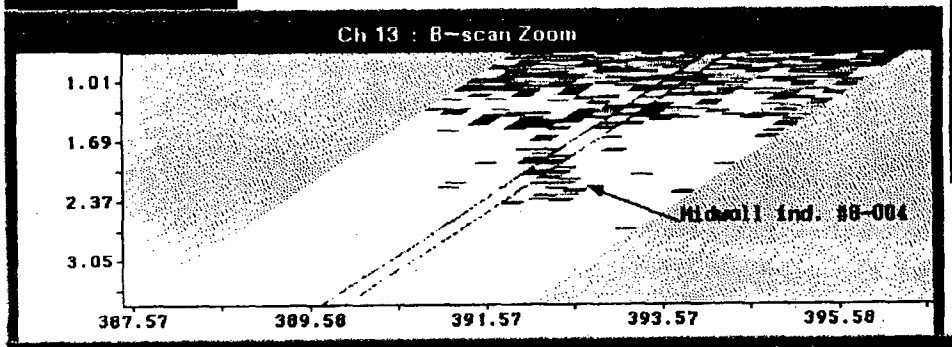


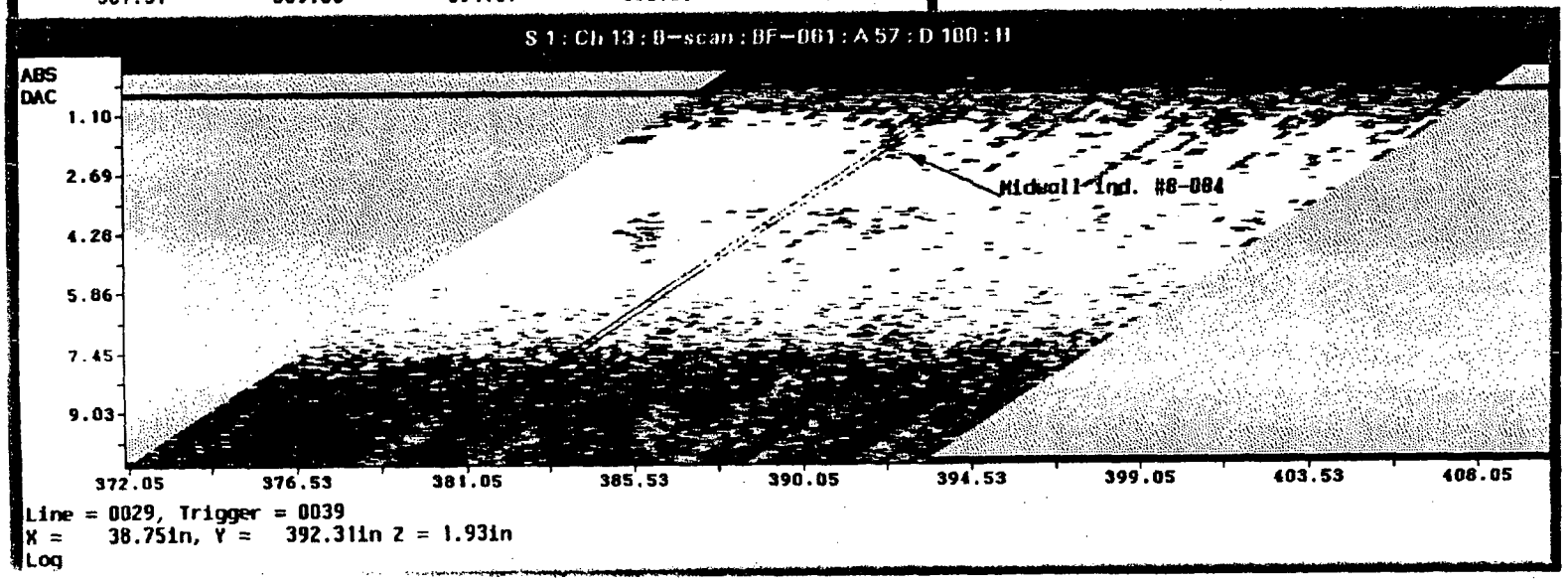


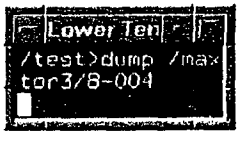




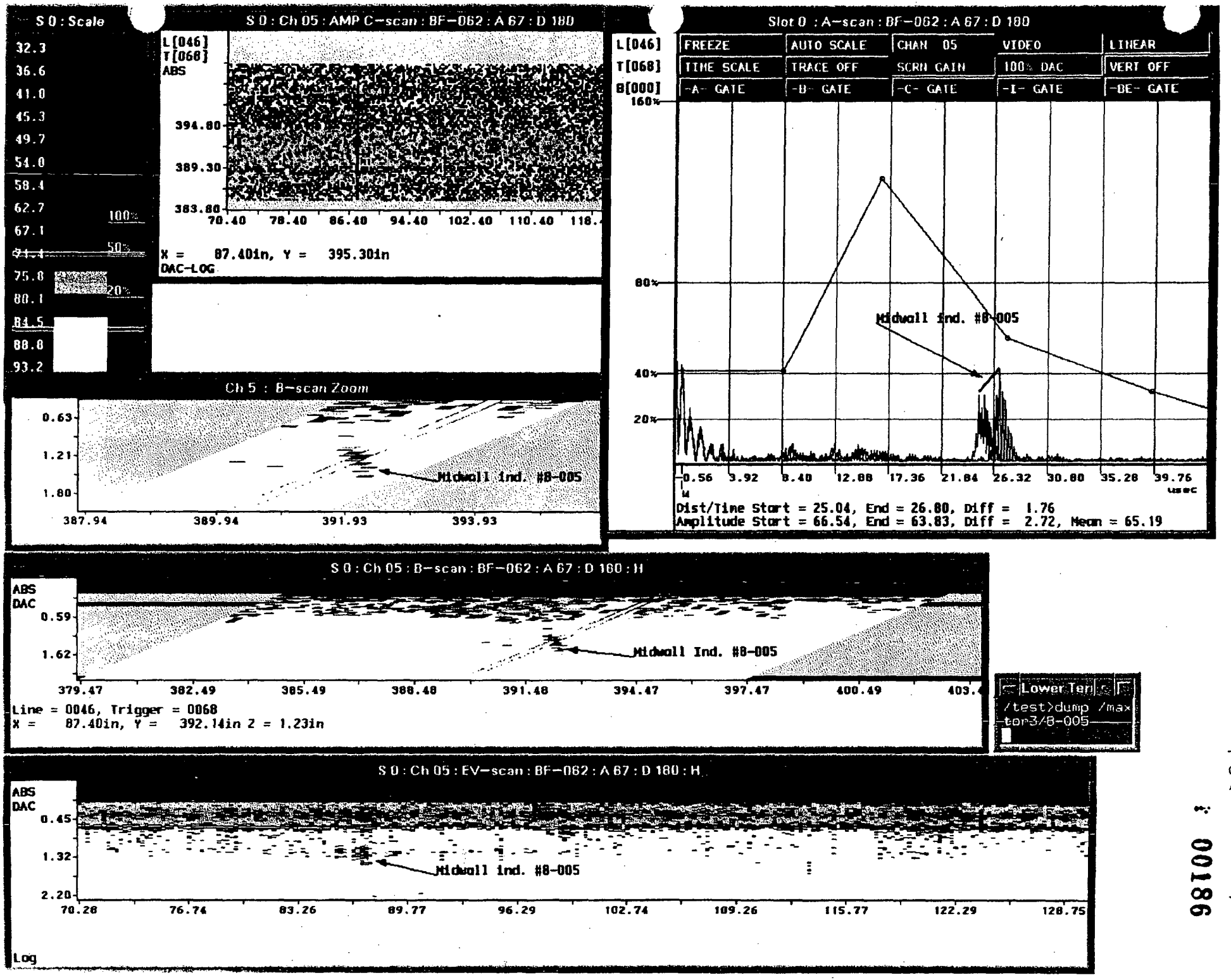




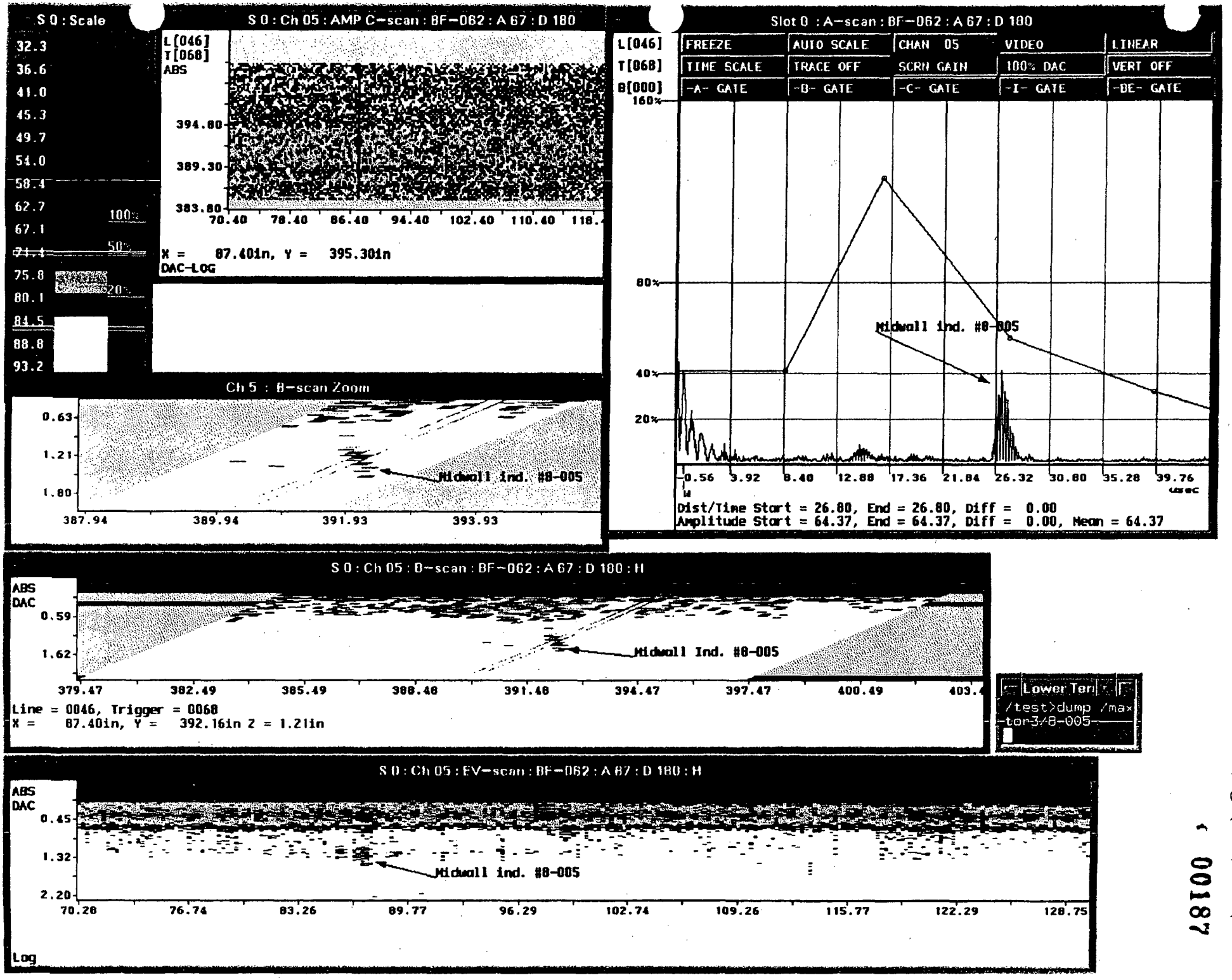




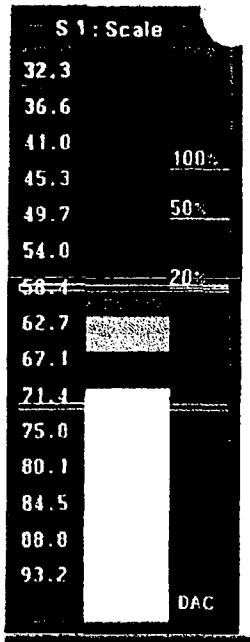
R1154
185 of 276
00185

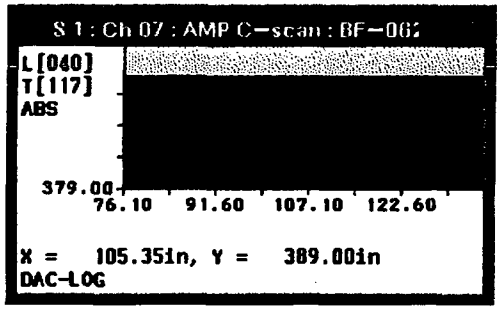


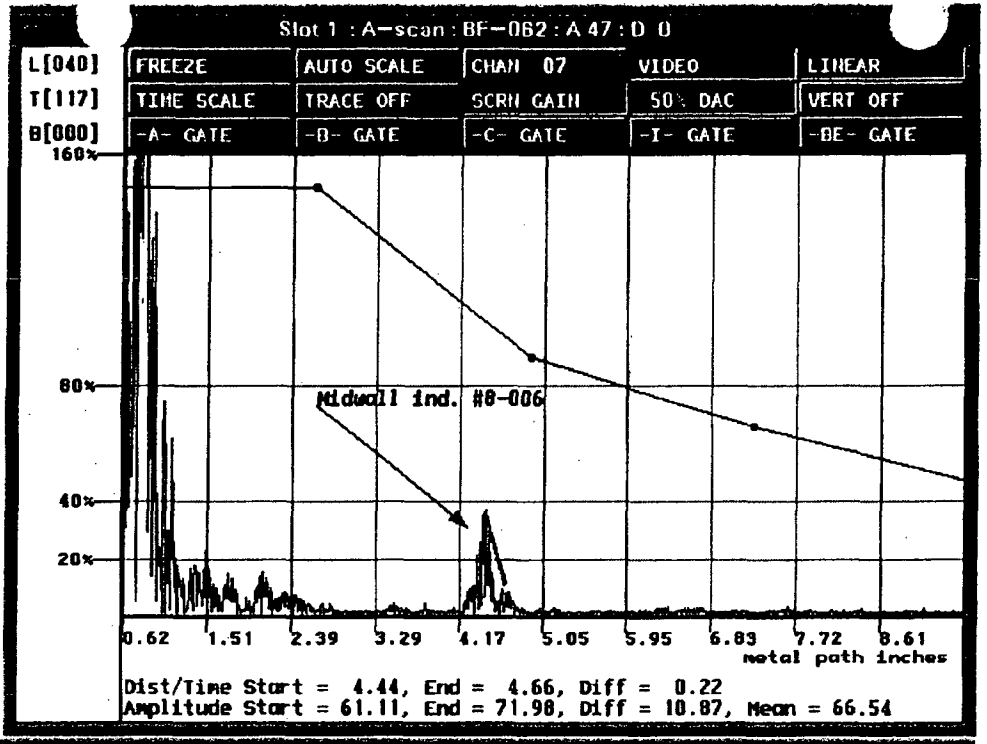
R1154
186 OF 276
00186

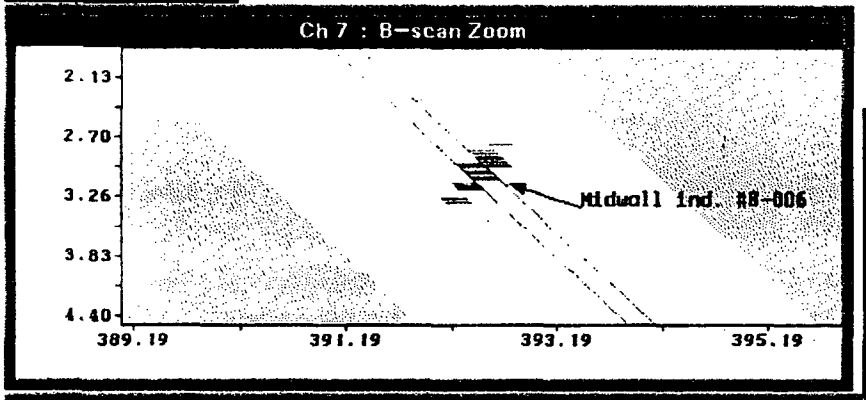


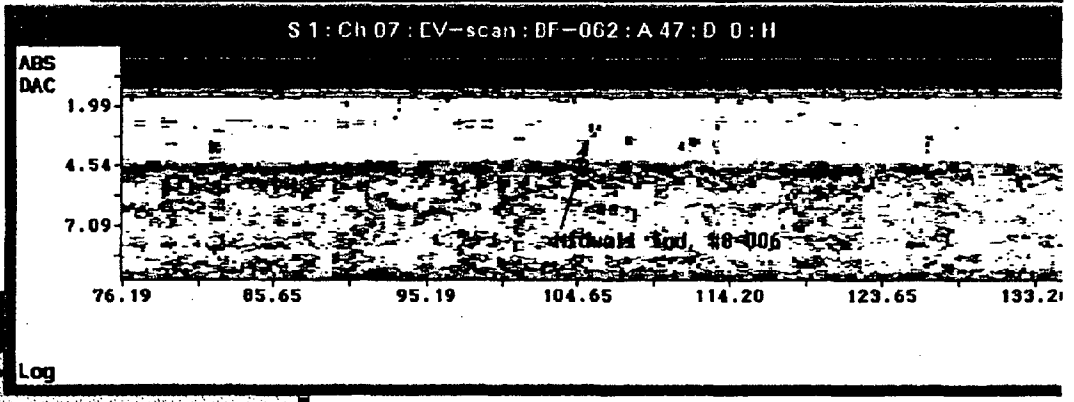
R1154
187 OF 276
00187

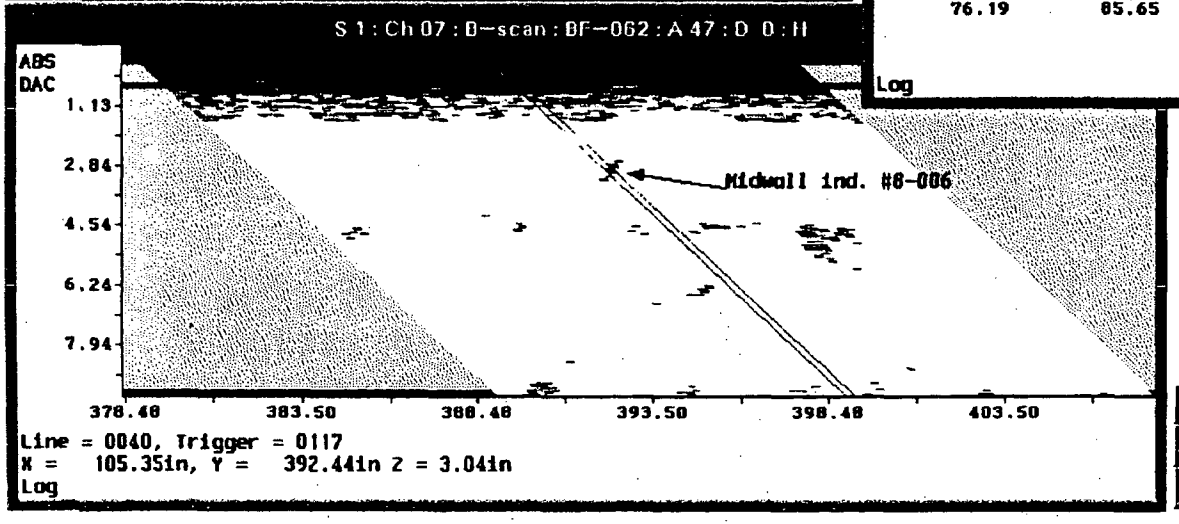


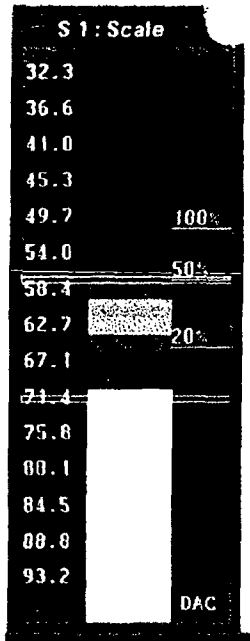


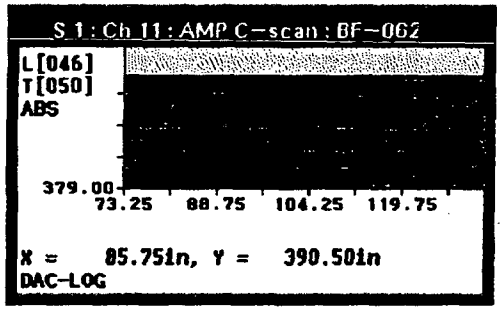


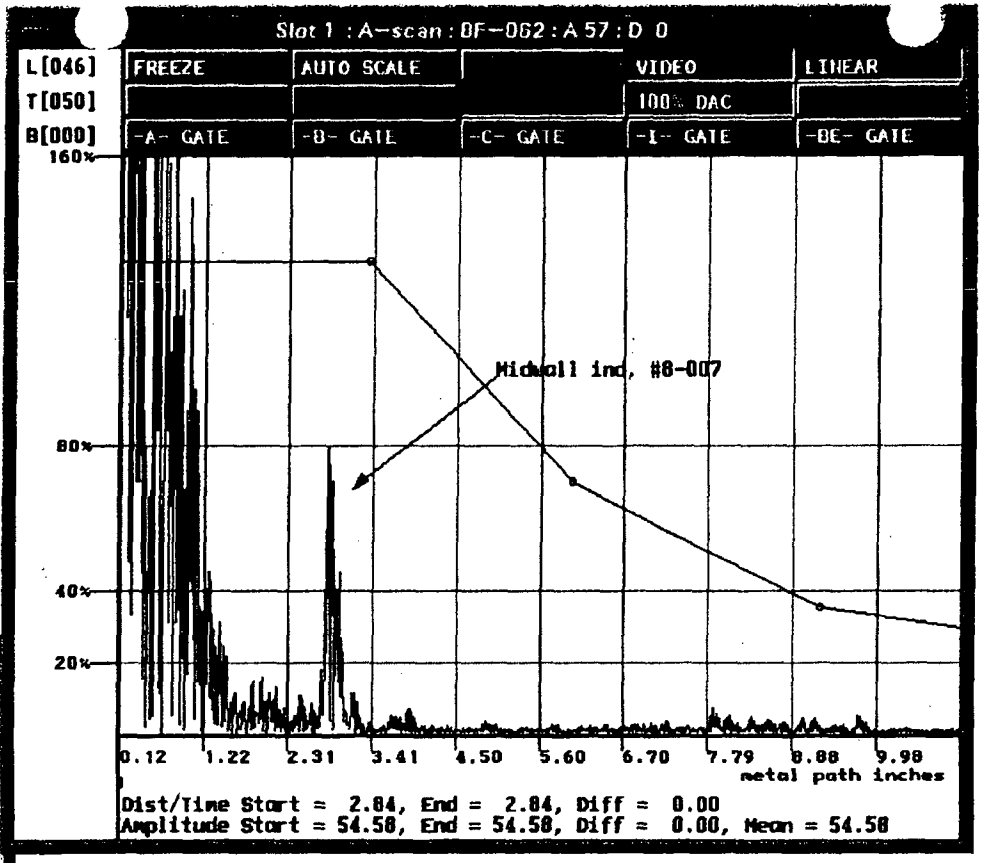


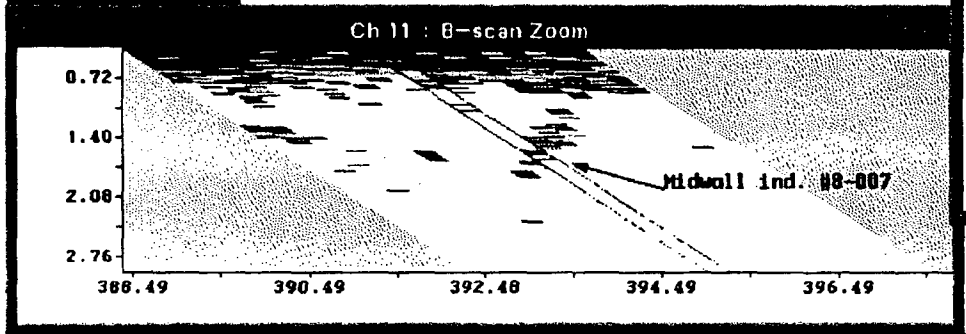


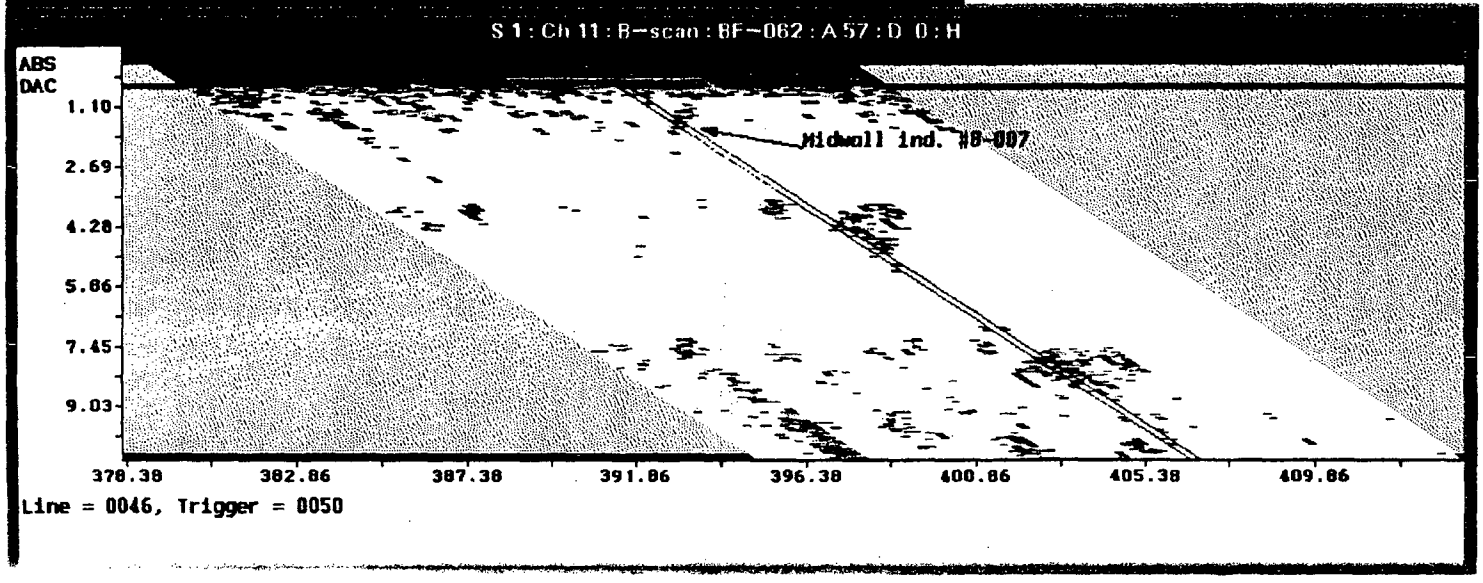






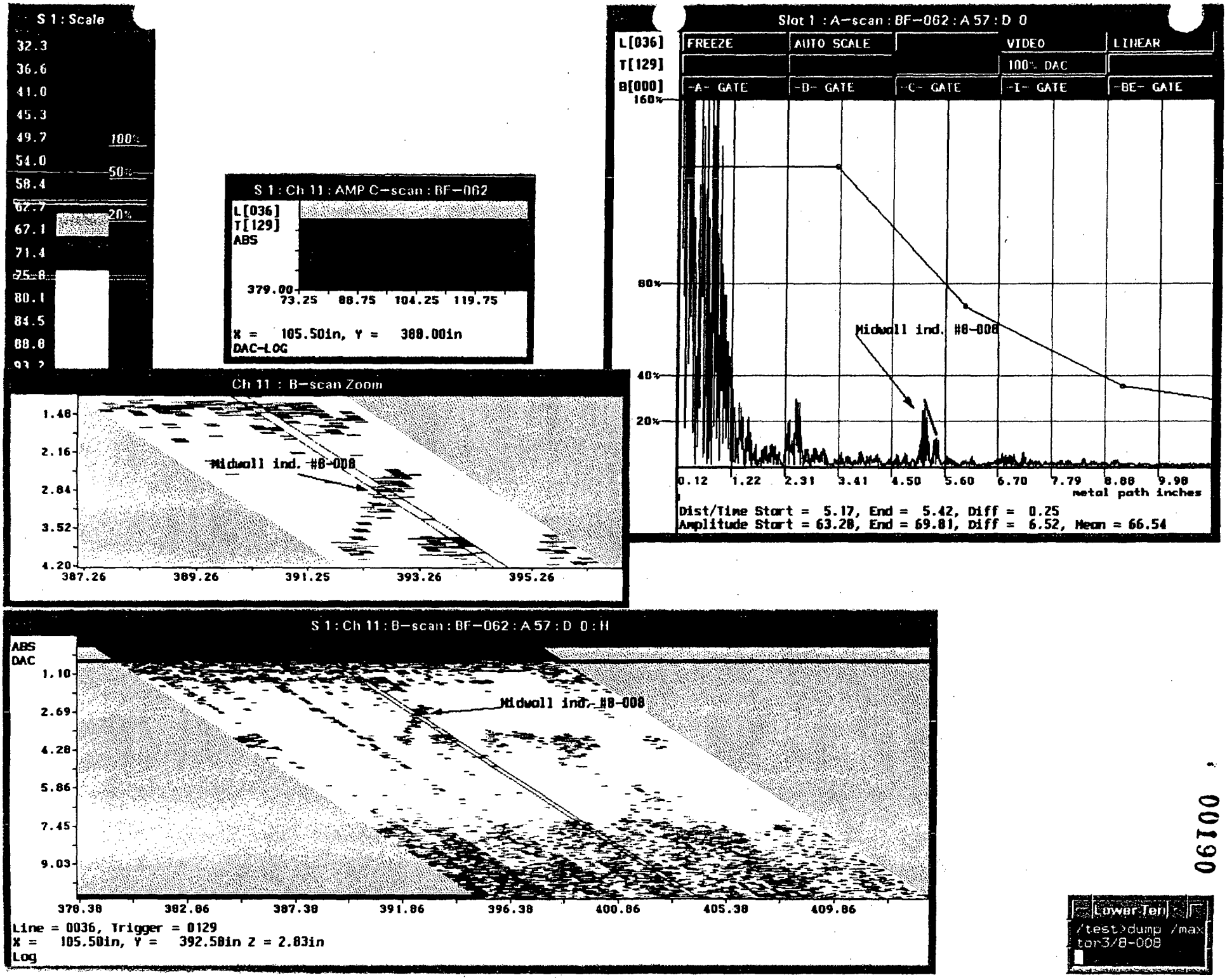






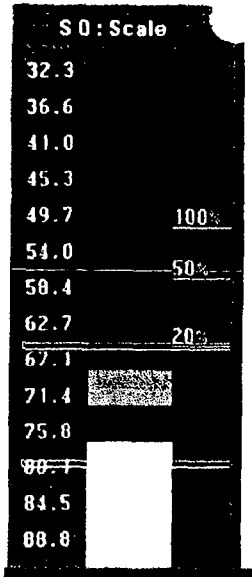
00189

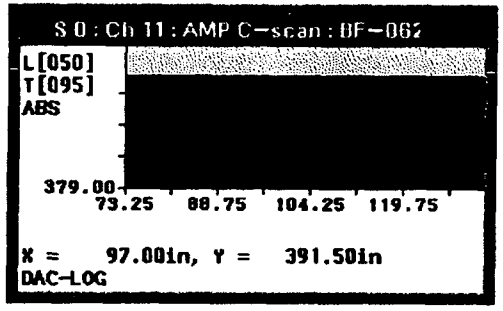
R 1154
189 OF 276

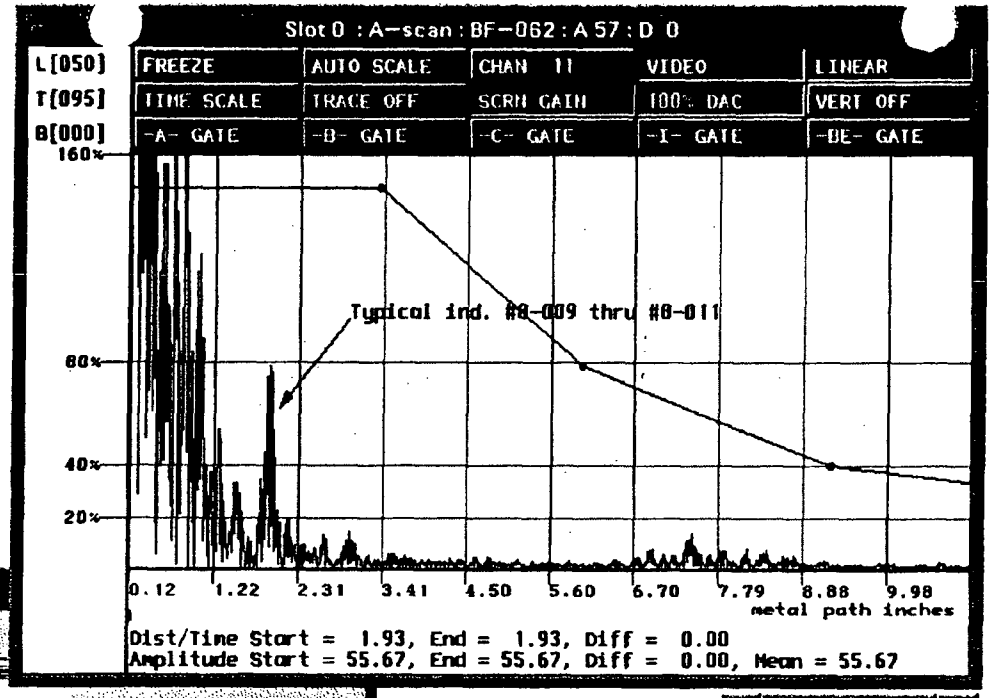


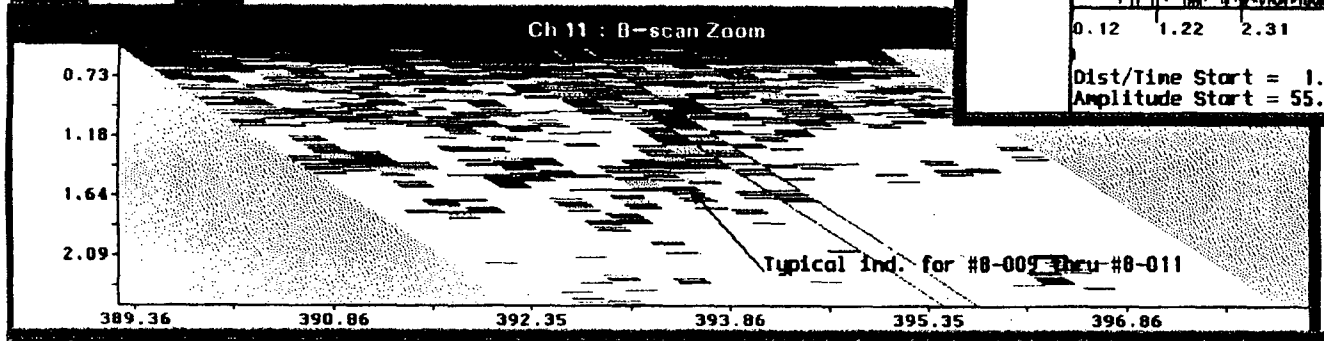
00190

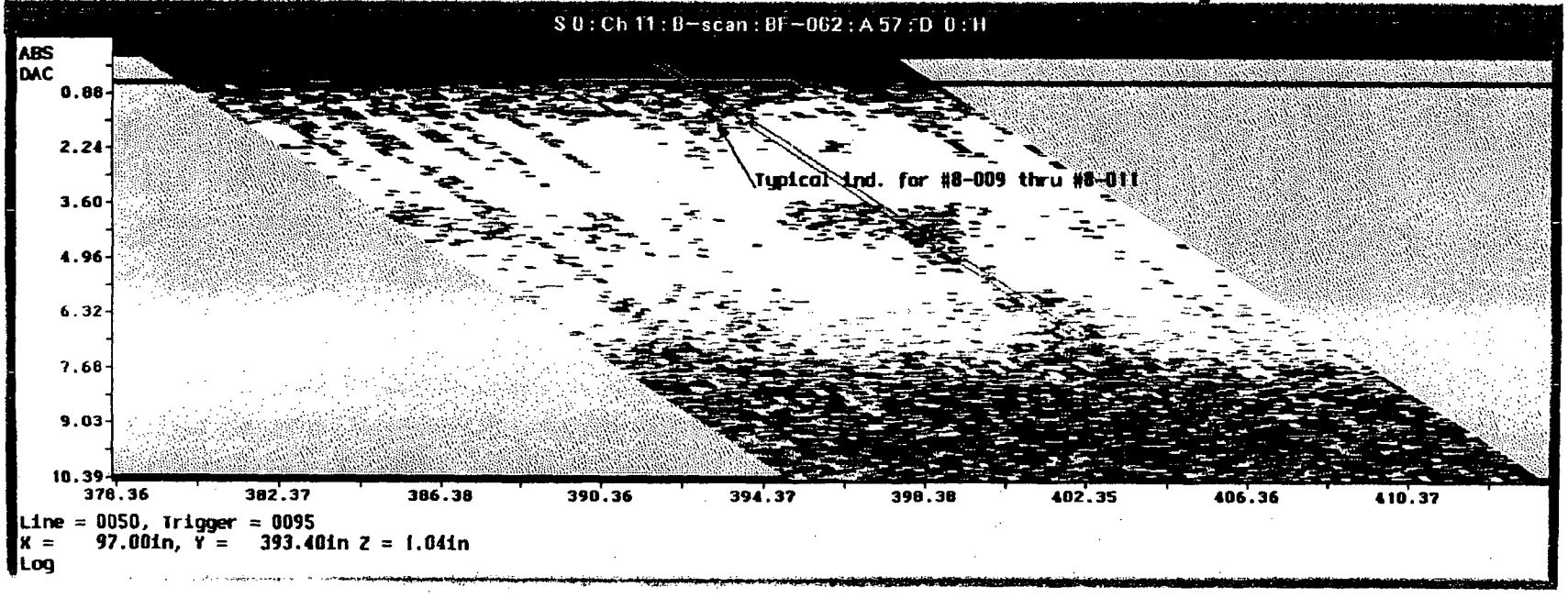
R1154
190 OF 276

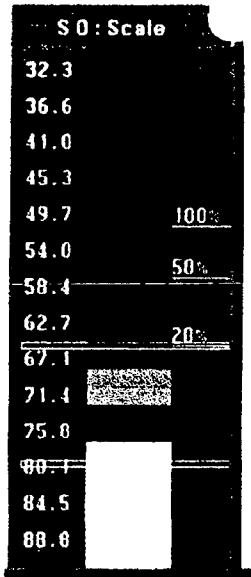


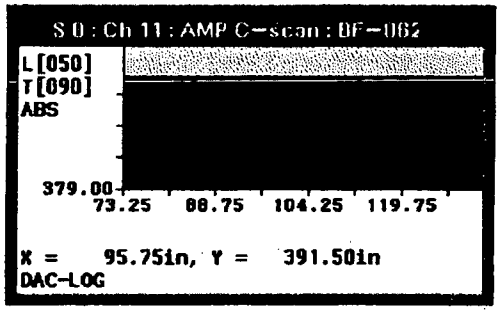


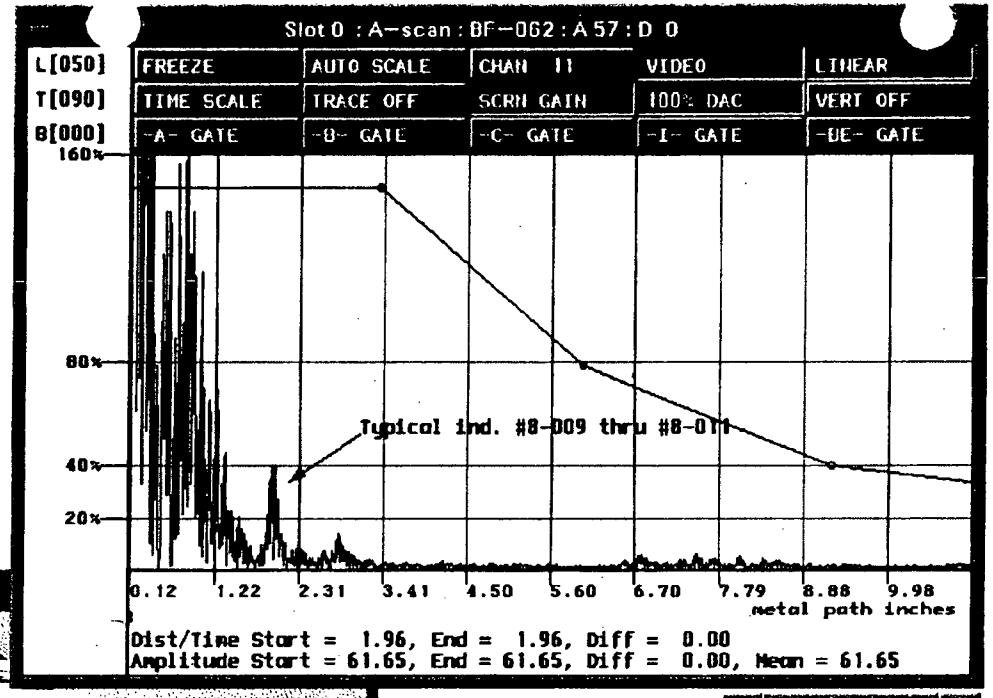


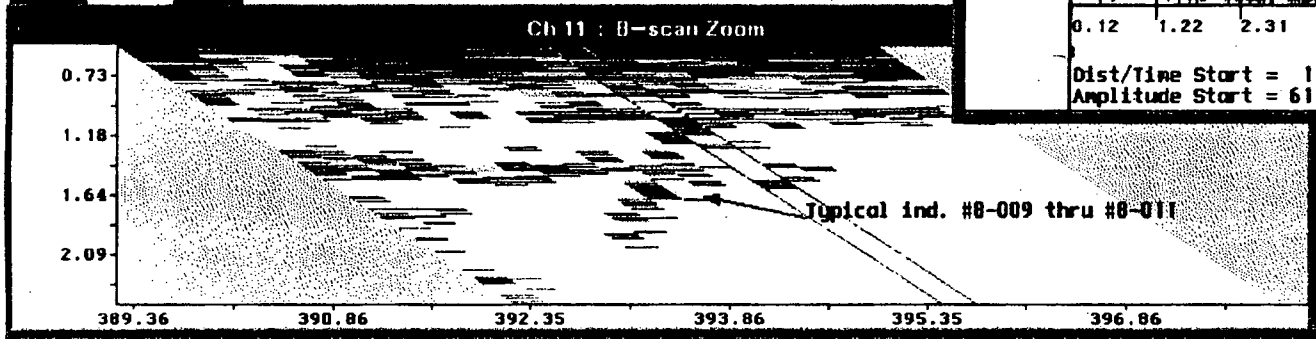


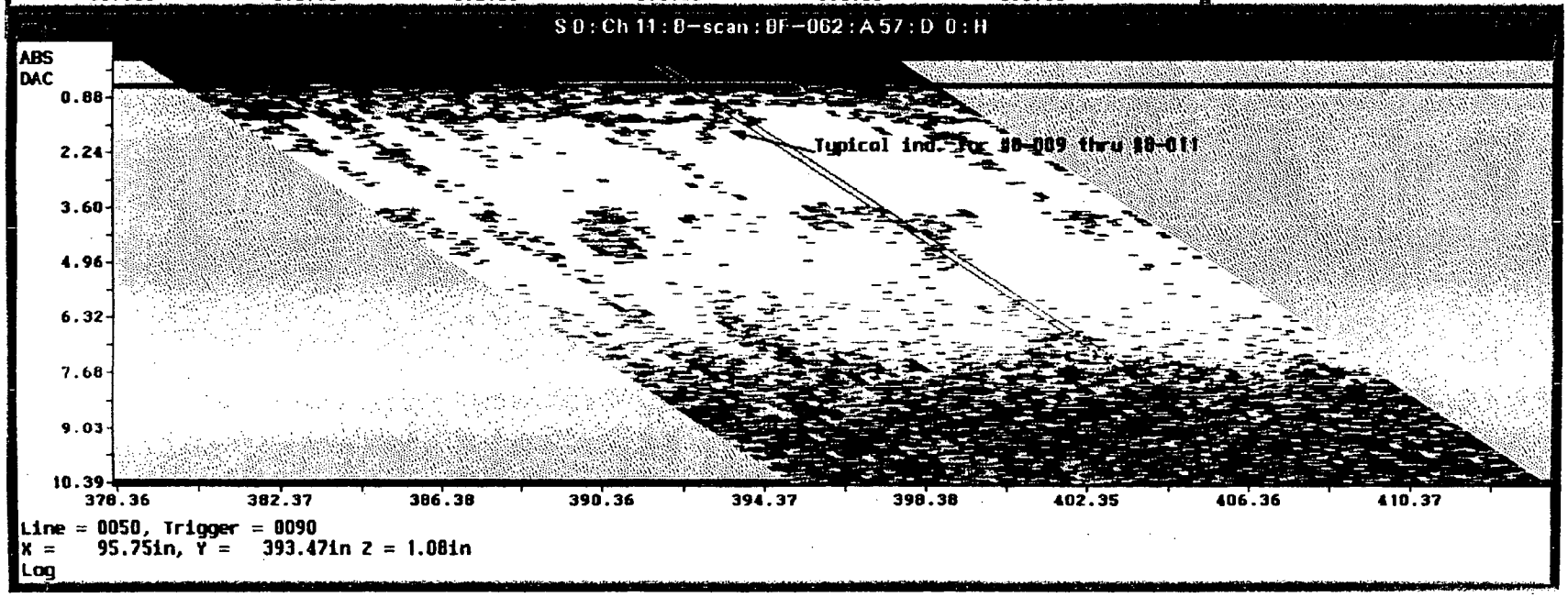


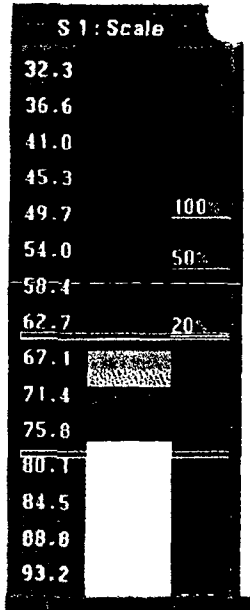


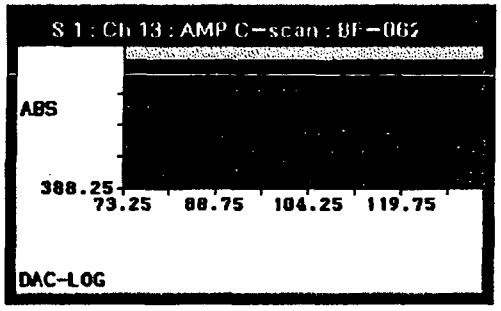


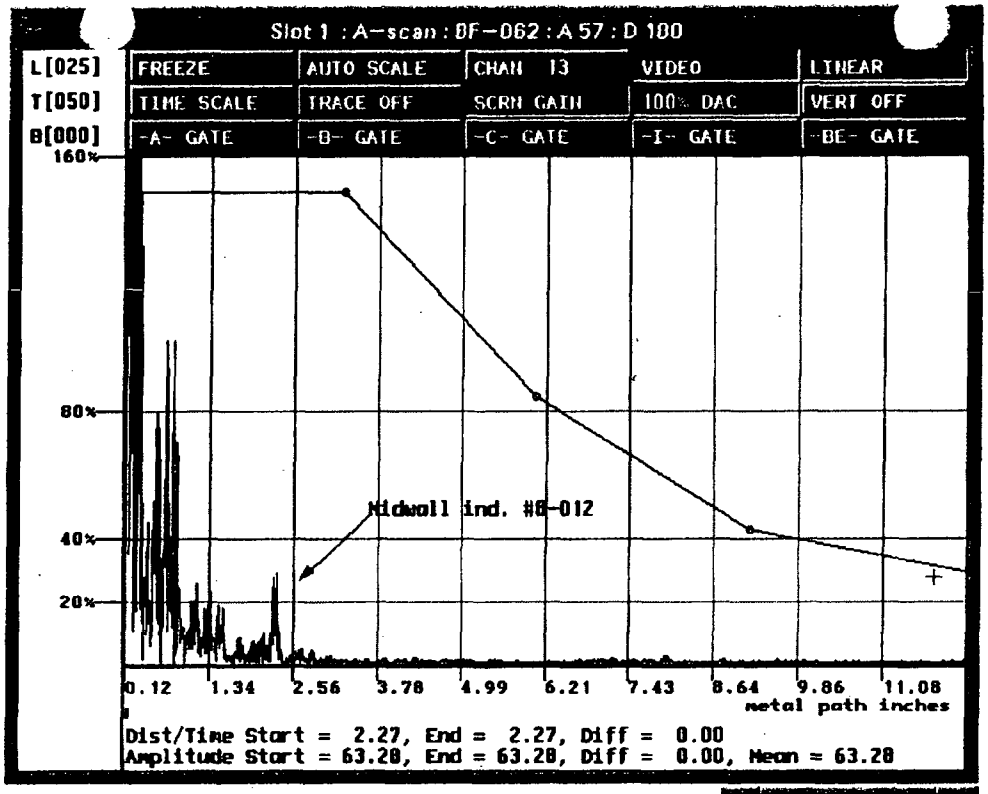


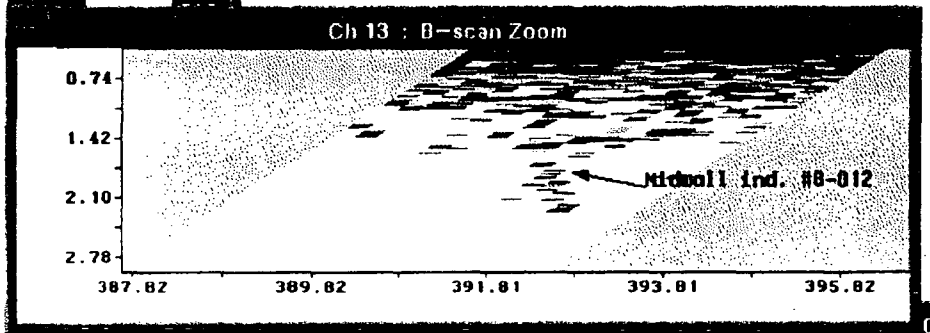


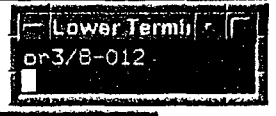


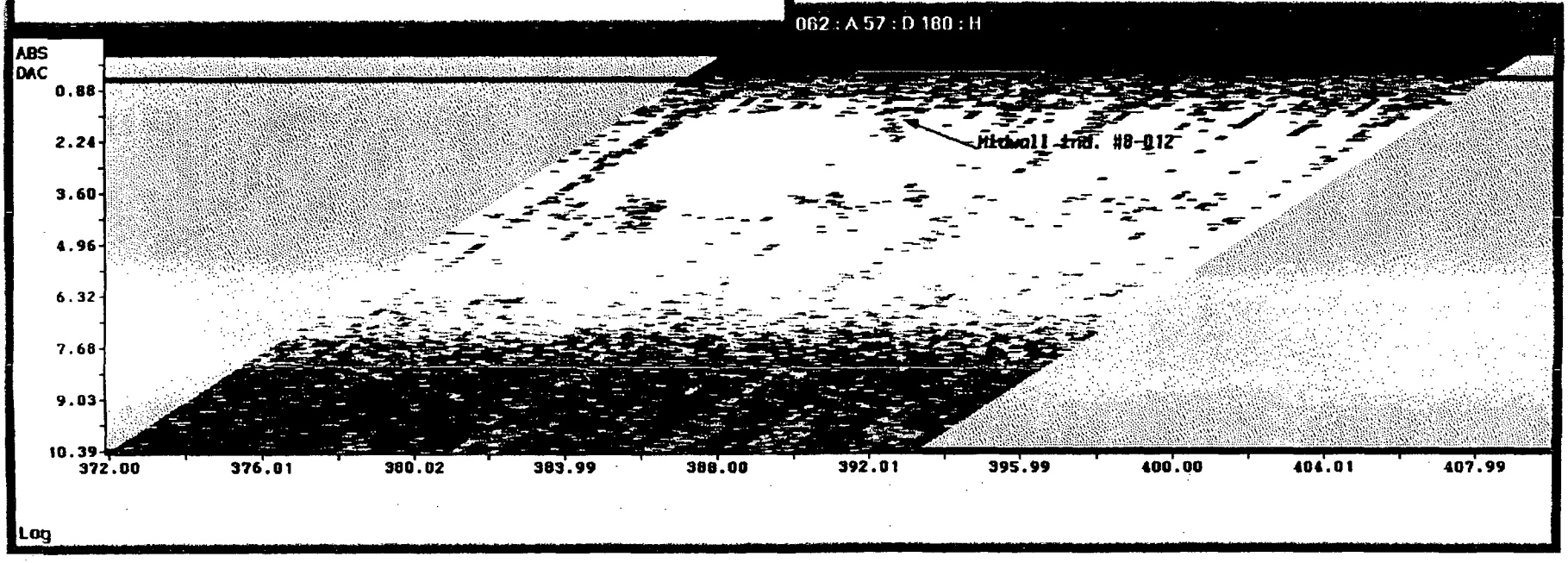


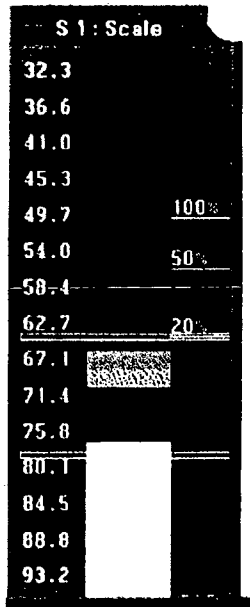


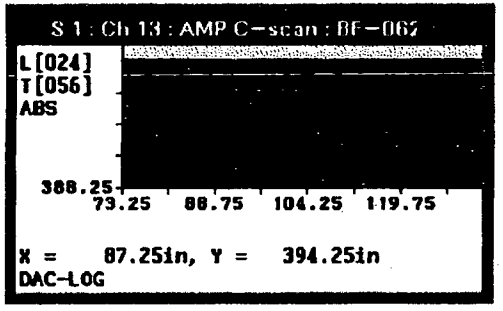


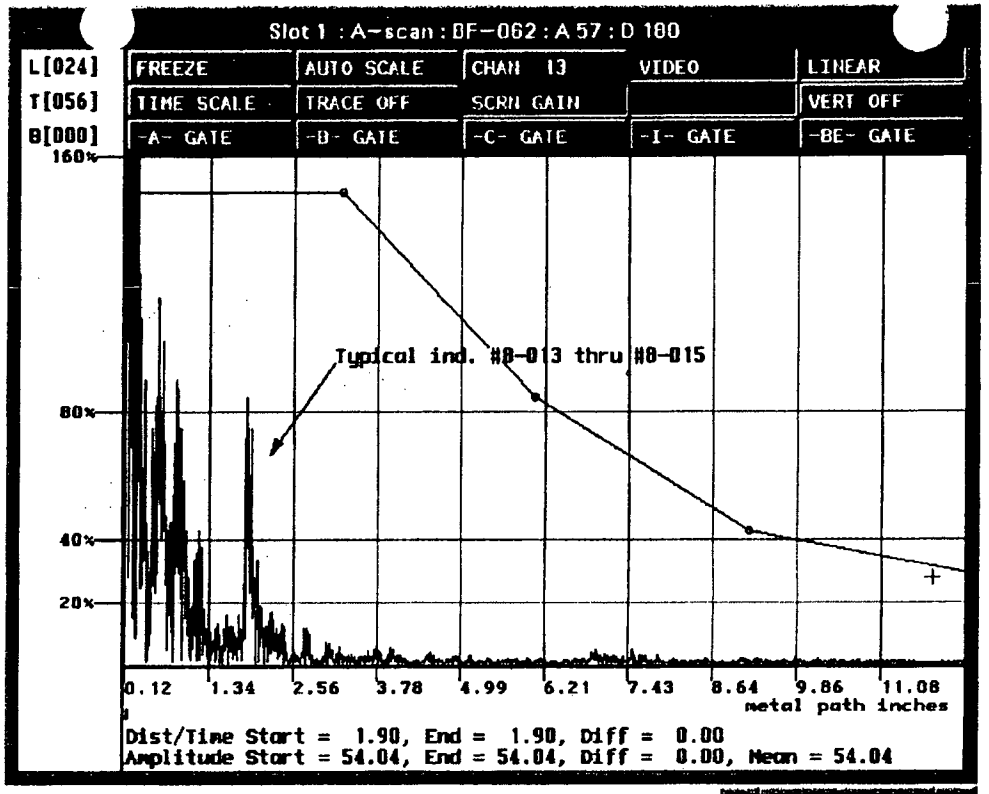


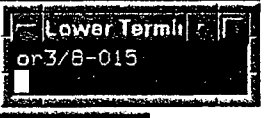


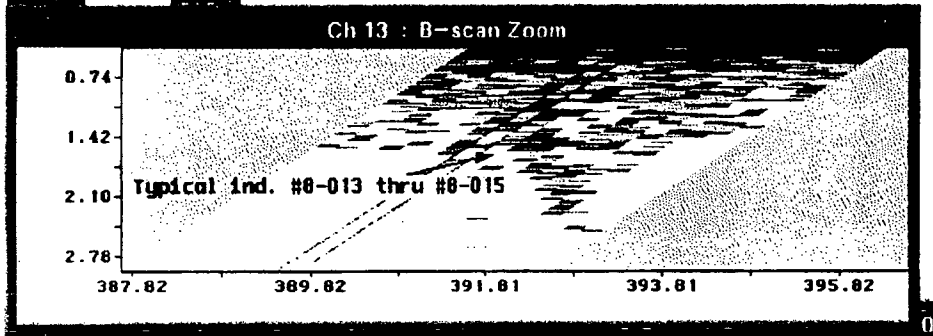


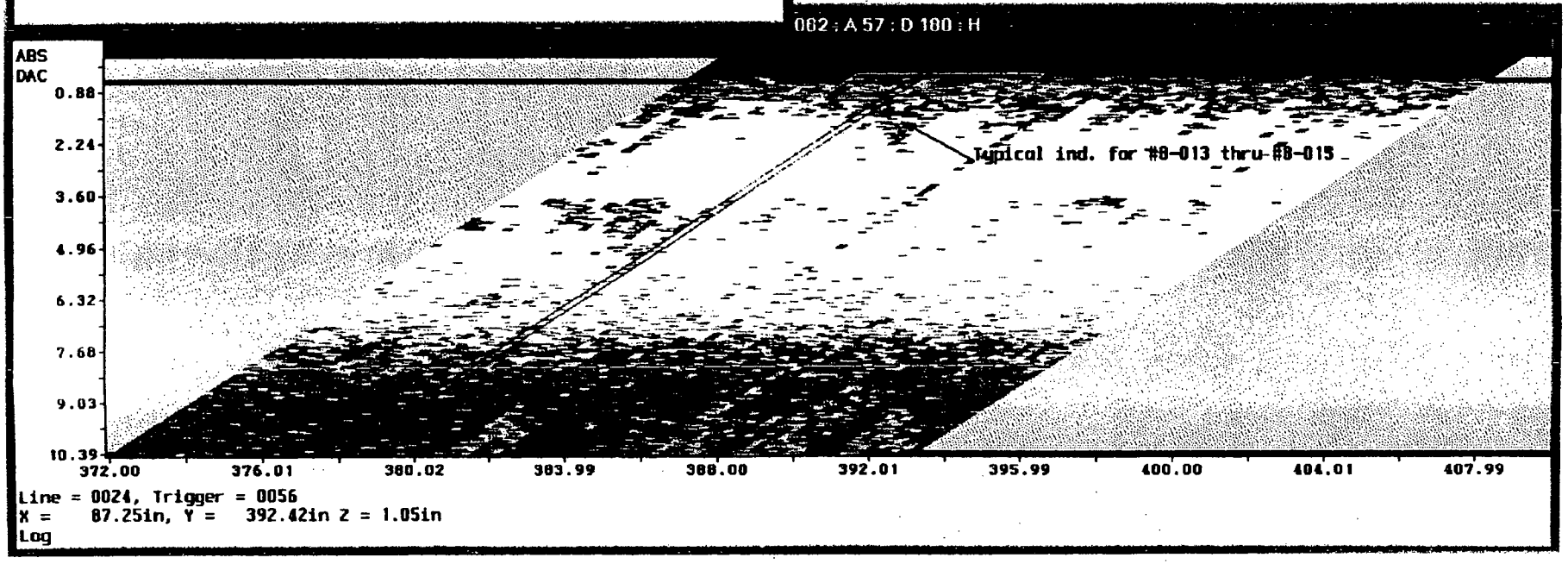


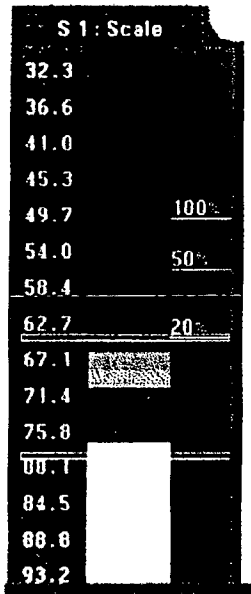


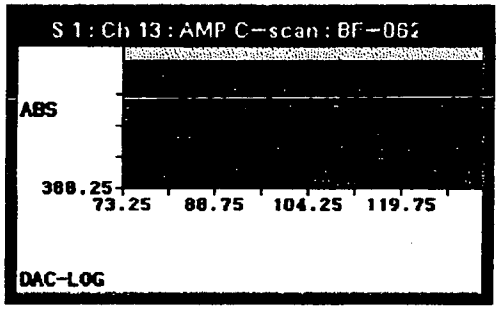


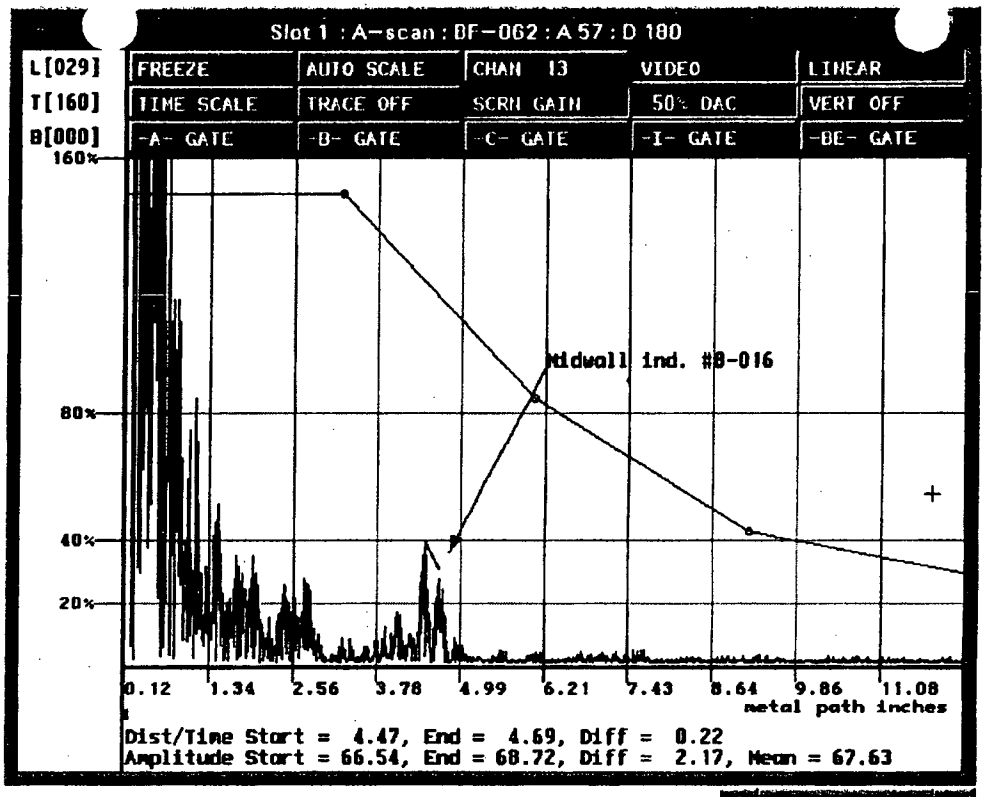


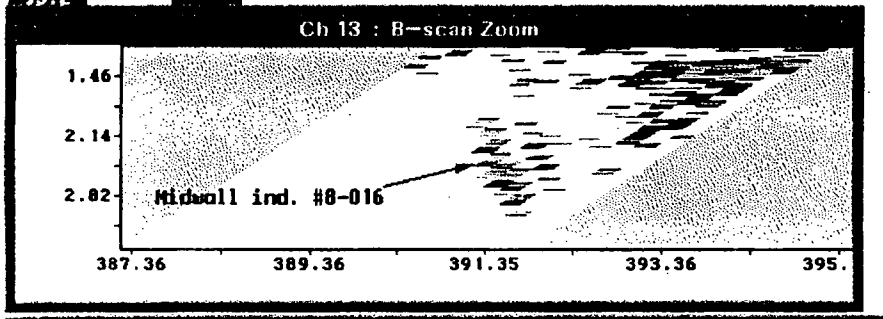


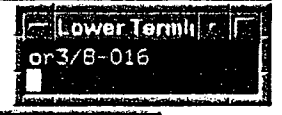


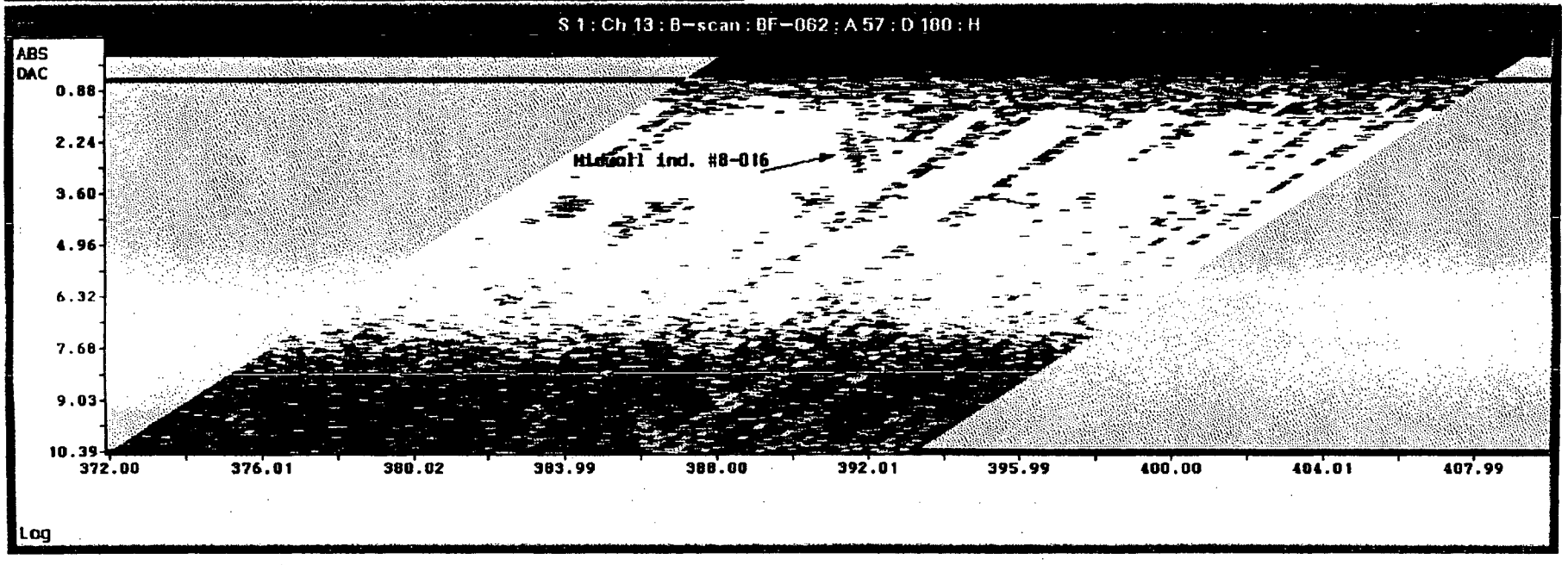




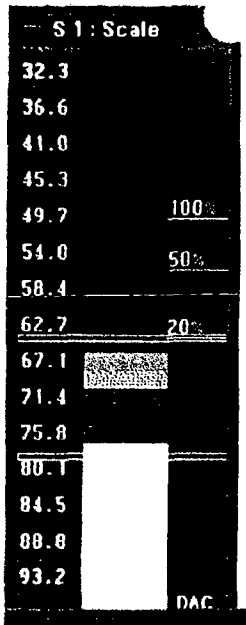


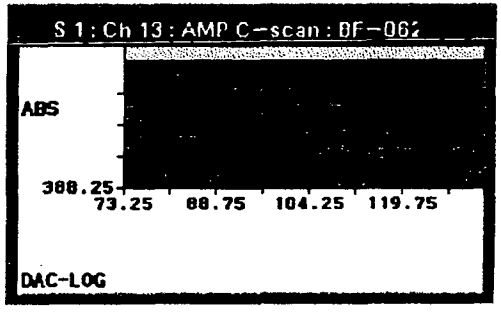


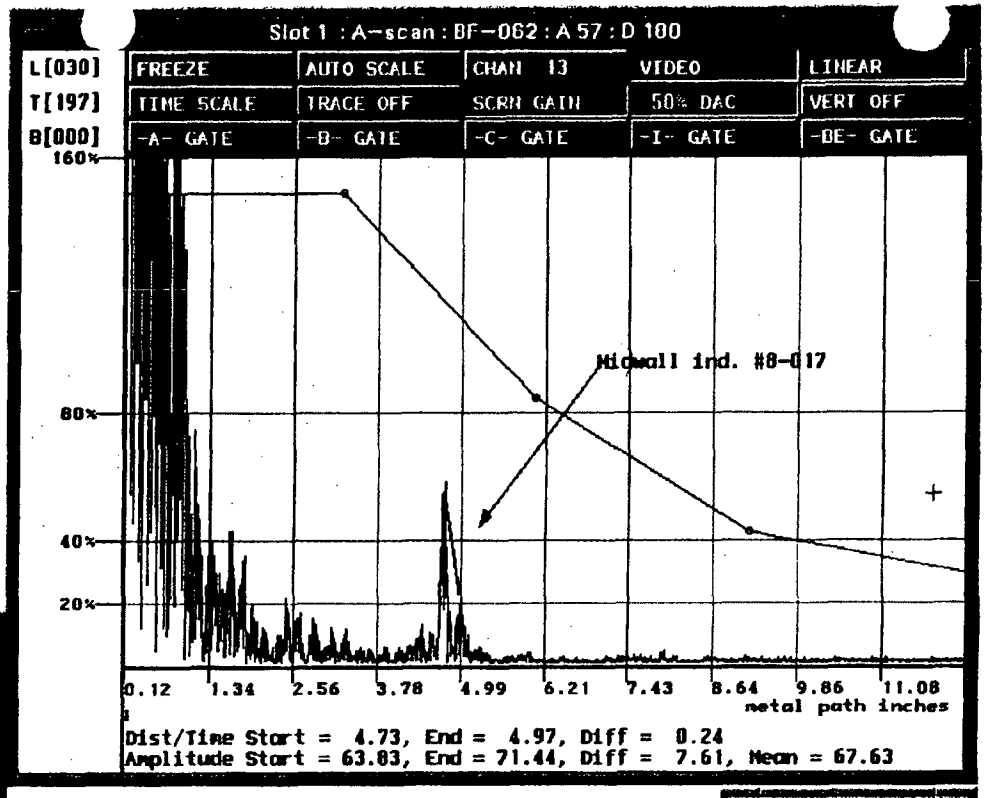


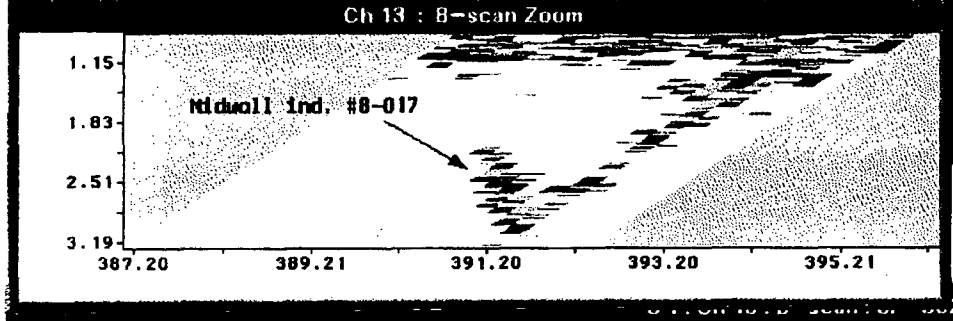


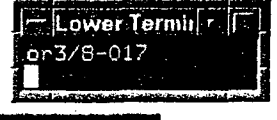
R1154
195 OF 276
00195

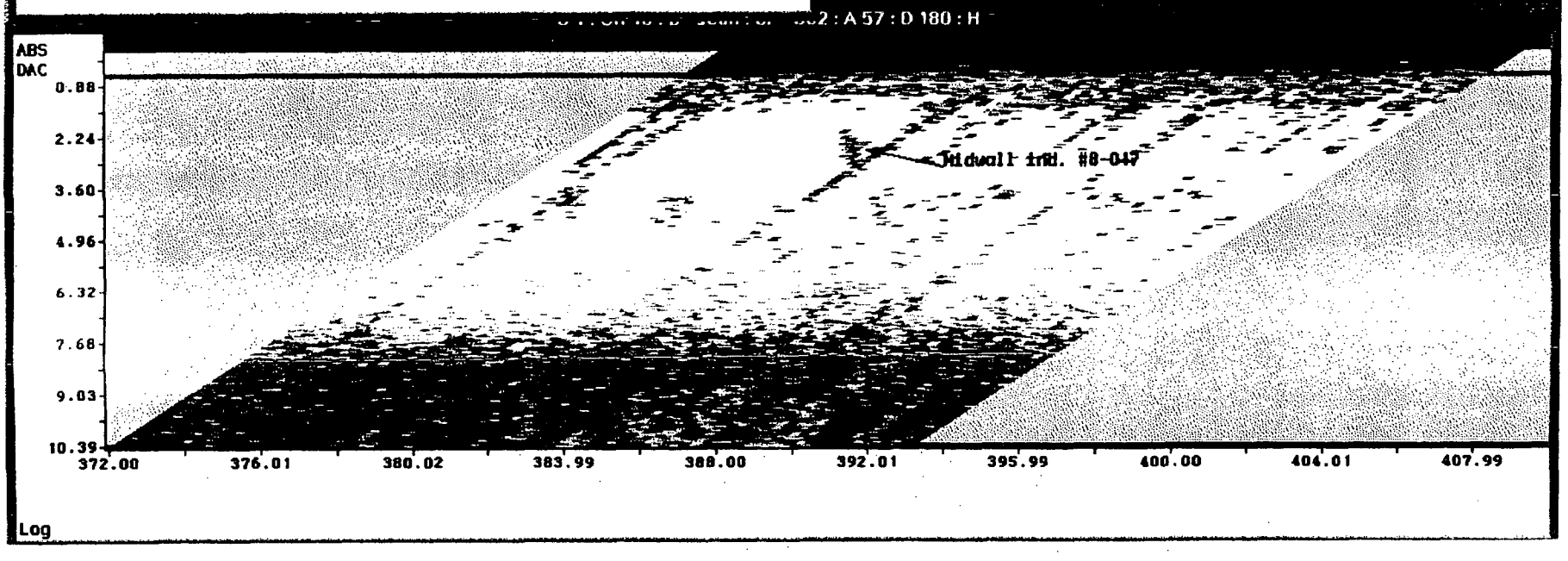

S 1 : Scale
32.3
36.6
41.0
45.3
49.7
54.0
58.4
62.7
67.1
71.4
75.8
80.1
84.5
88.8
93.2
100%
50%
20%
DAC

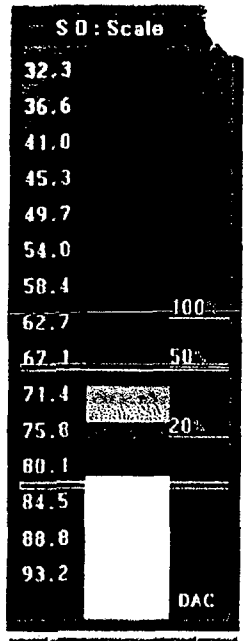

S 1 : Ch 13 : AMP C-scan : BF-062
ABS
388.25
73.25
88.75
104.25
119.75
DAC-LOG

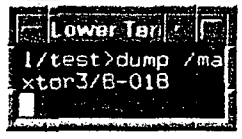

Slot 1 : A-scan : BF-062 : A 57 : D 100
L[030]
T[197]
B[000]
FREEZE
AUTO SCALE
CHAN 13
VIDEO
LINEAR
TIME SCALE
TRACE OFF
SCRN GAIN
50% DAC
VERT OFF
-A- GATE
-B- GATE
-C- GATE
-I- GATE
-BE- GATE
160%
80%
40%
20%
Midwall ind. #8-017
0.12
1.34
2.56
3.78
4.99
6.21
7.43
8.64
9.86
11.08
metal path inches
Dist/Time Start = 4.73, End = 4.97, Diff = 0.24
Amplitude Start = 63.83, End = 71.44, Diff = 7.61, Mean = 67.63

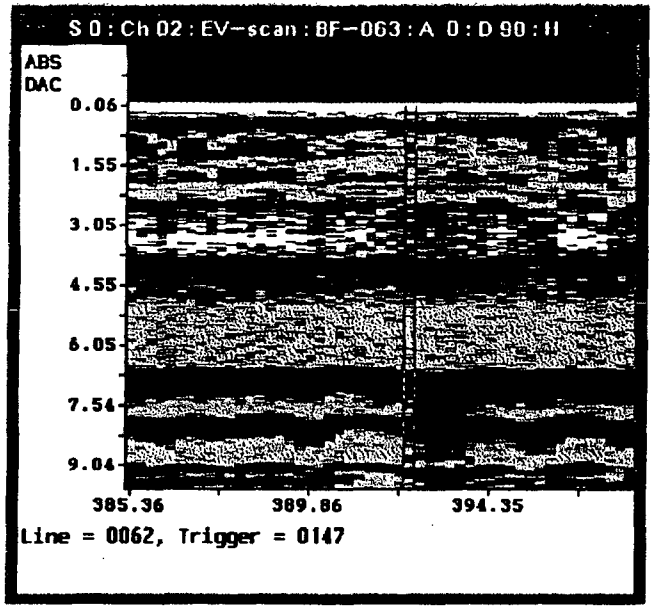

Ch 13 : B-scan Zoom
1.15
1.83
2.51
3.19
Midwall ind. #8-017
387.20
389.21
391.20
393.20
395.21

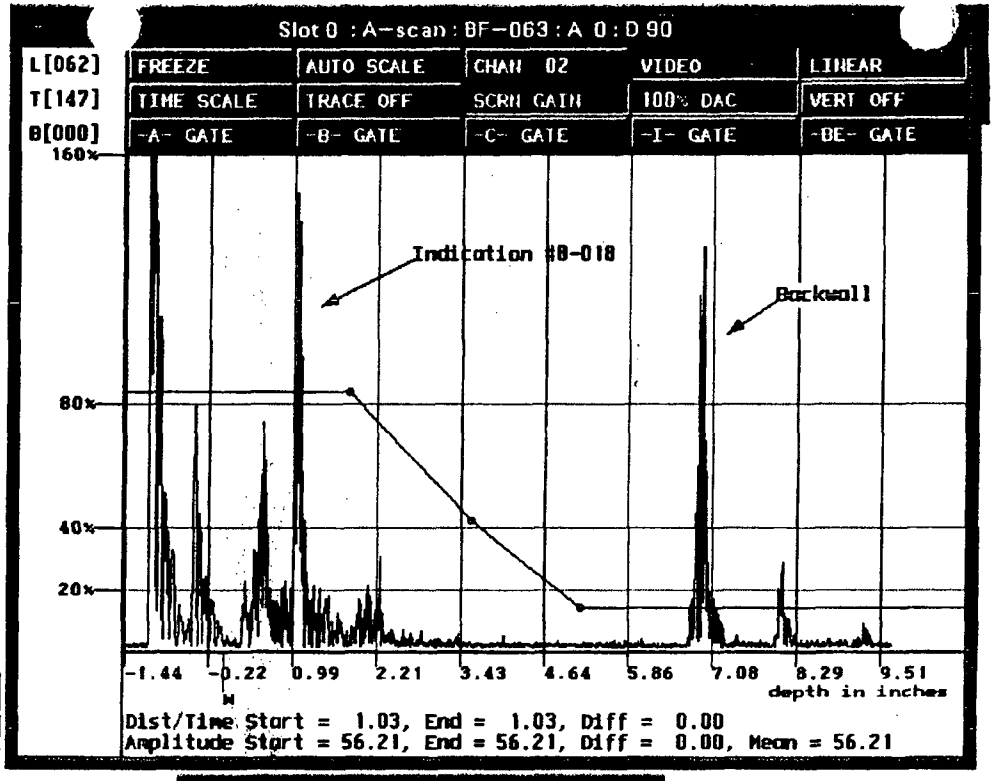

Lower Termi
or3/8-017

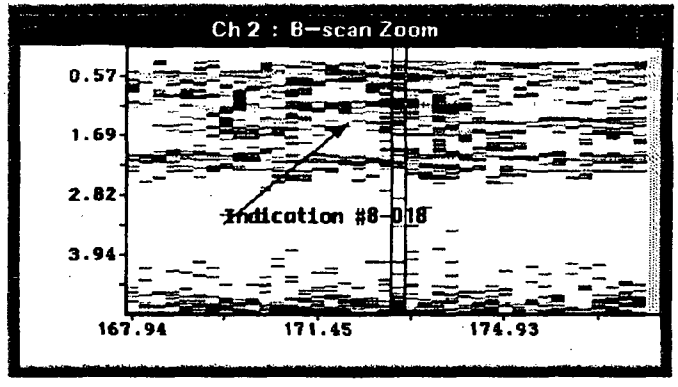

ABS
DAC
0.88
2.24
3.60
4.96
6.32
7.68
9.03
10.39
Midwall ind. #8-017
372.00
376.01
380.02
383.99
388.00
392.01
395.99
400.00
404.01
407.99
Log

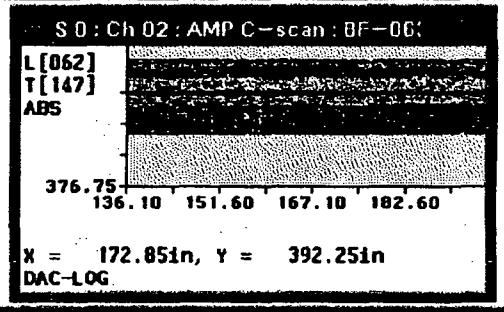


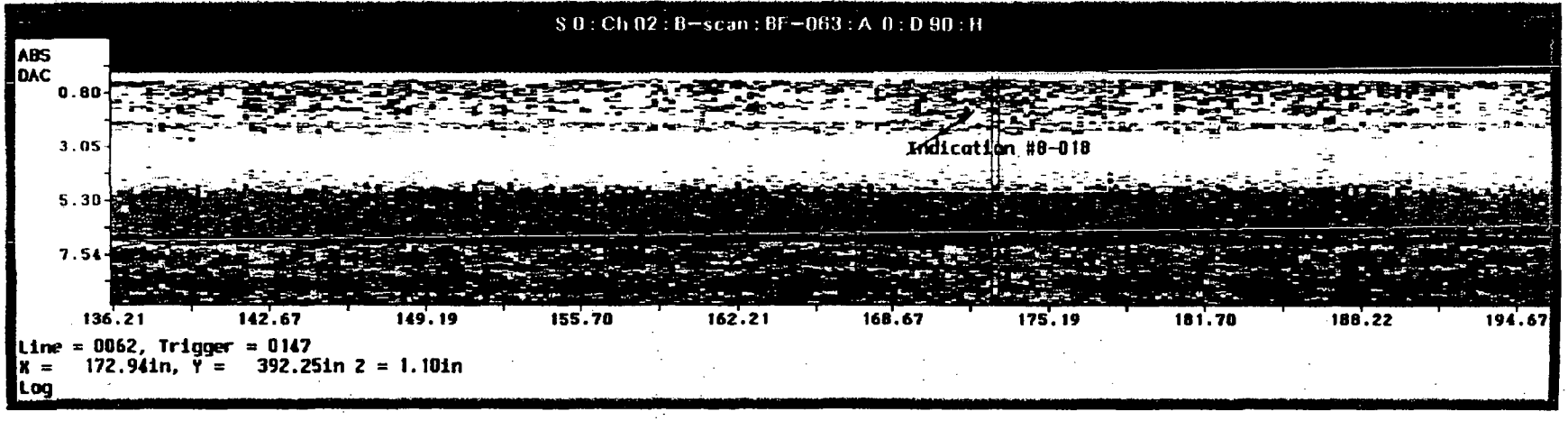


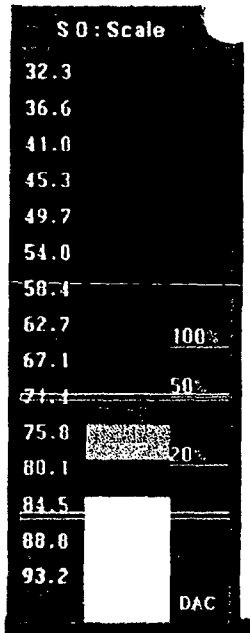


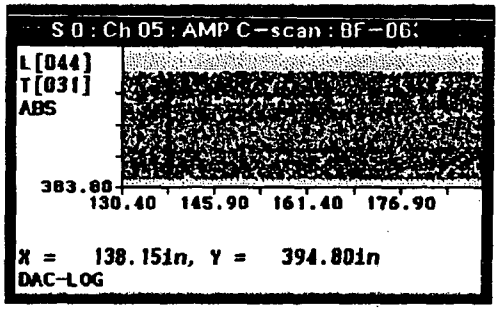


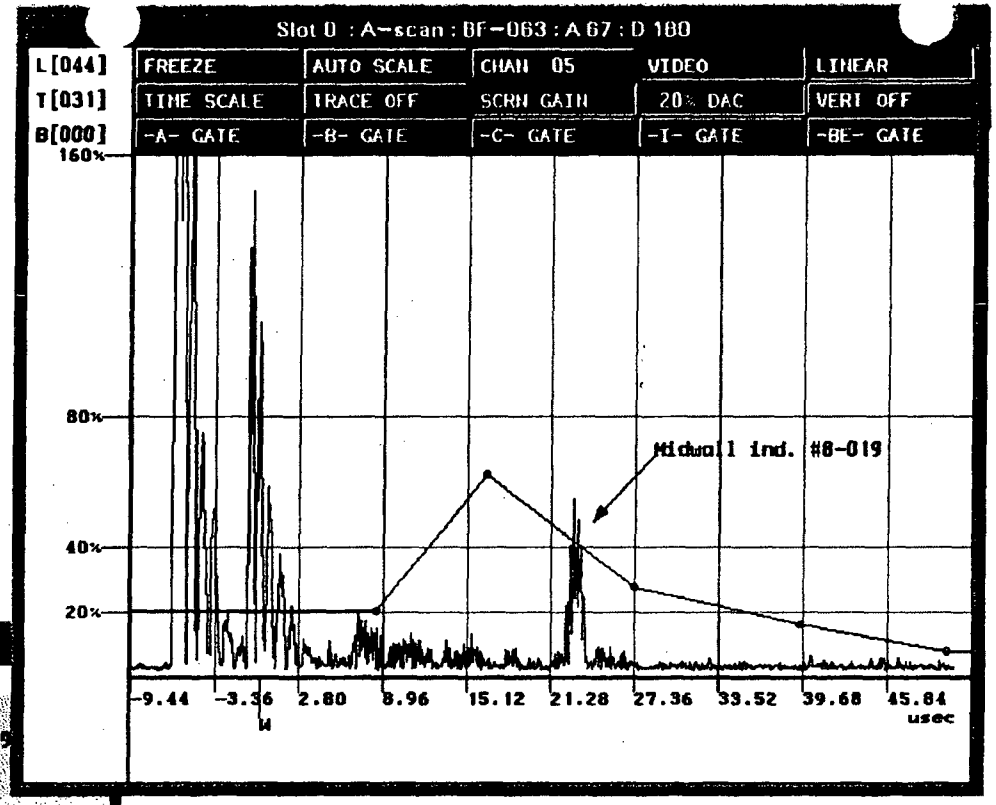


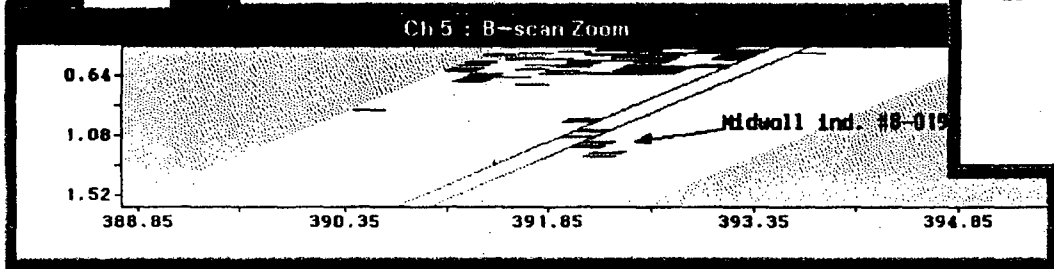


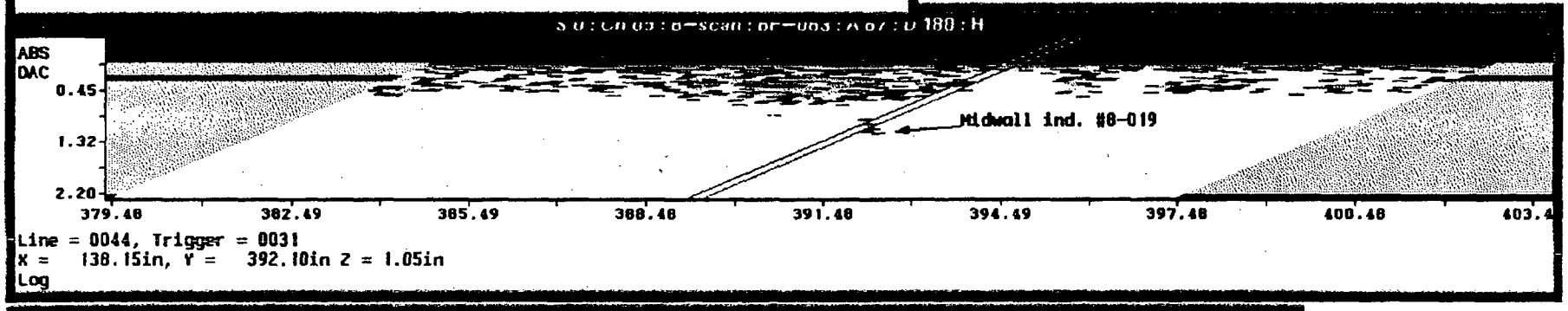


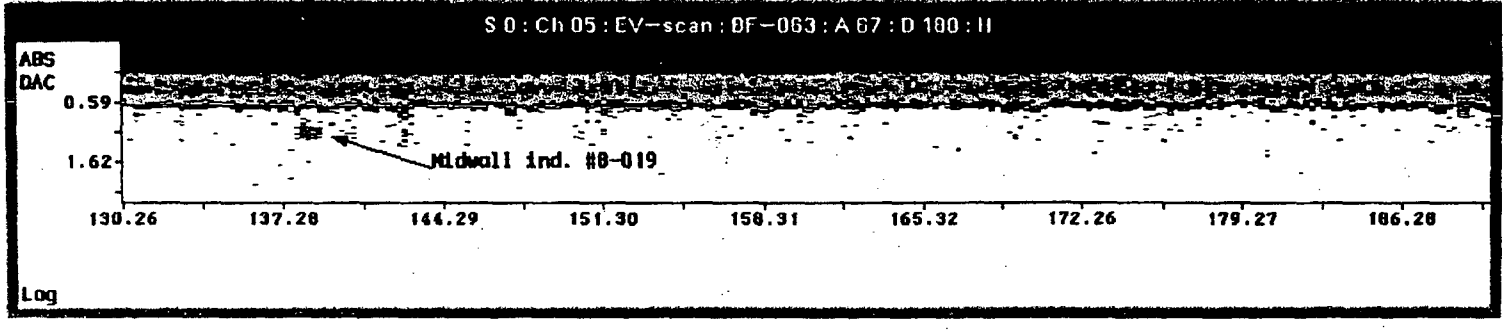


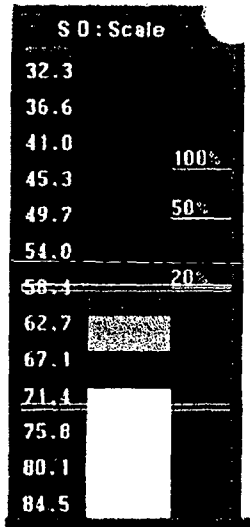


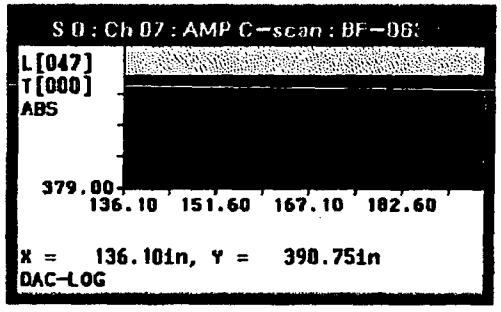


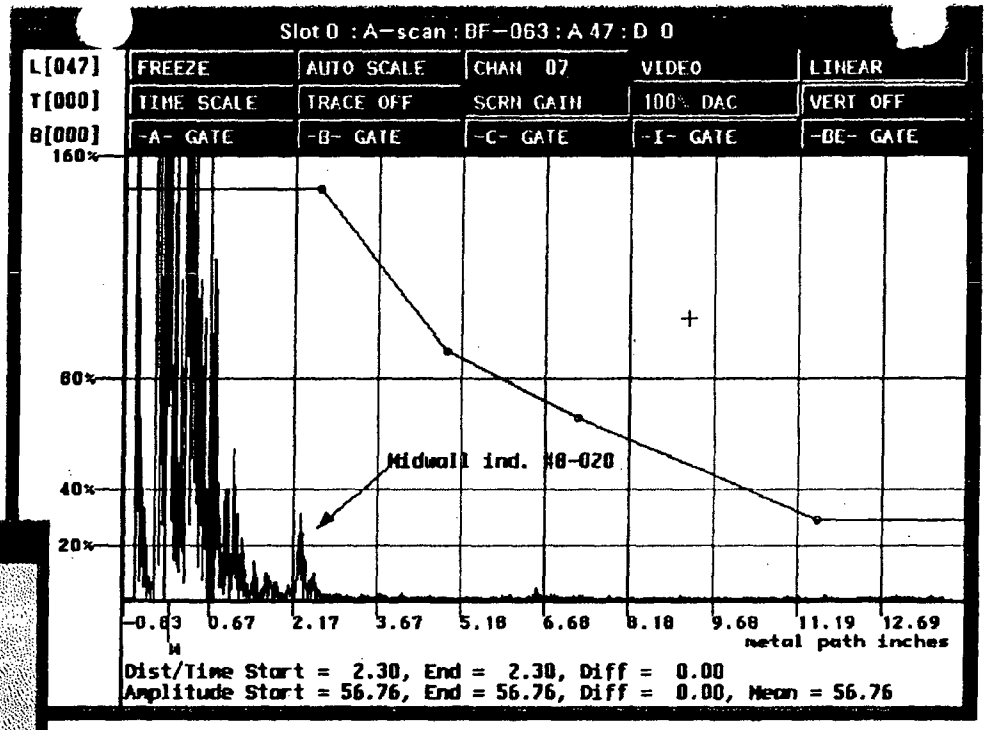


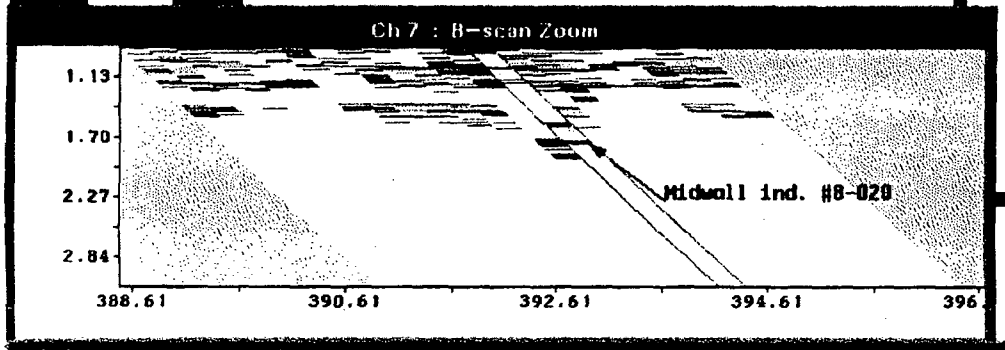


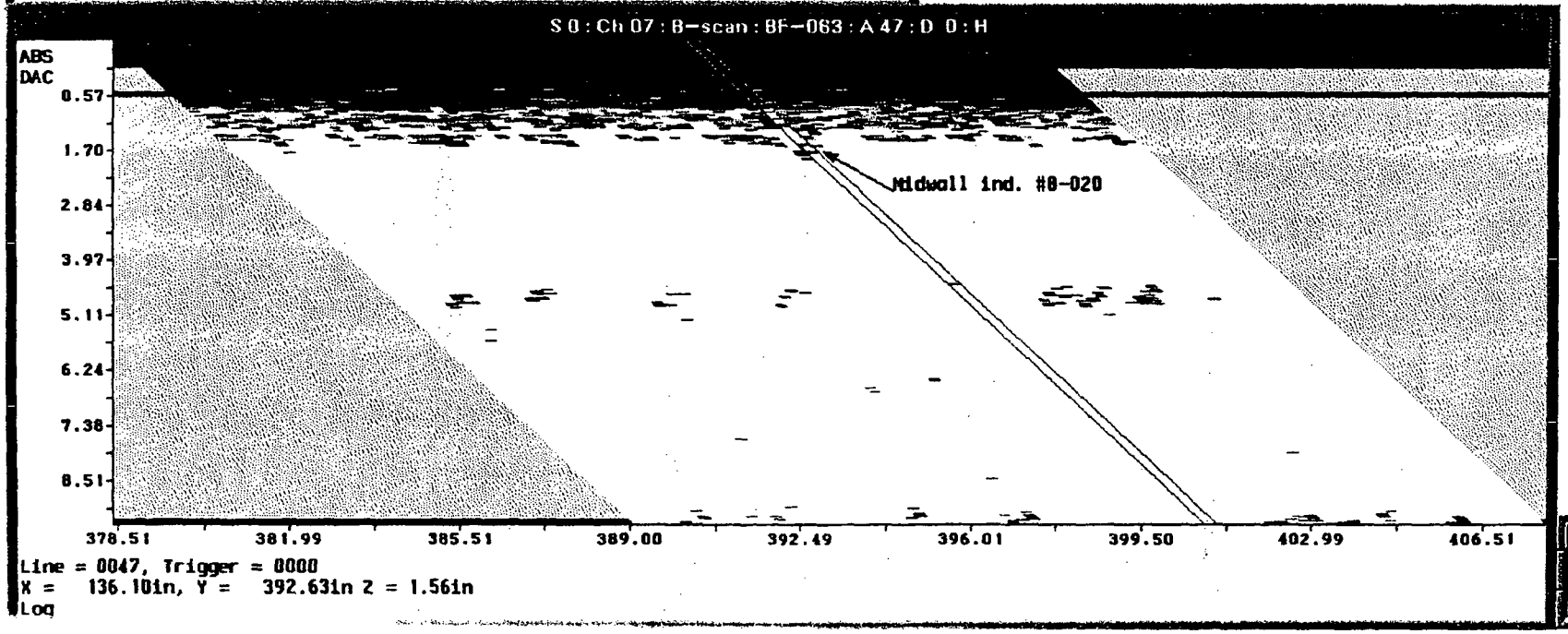


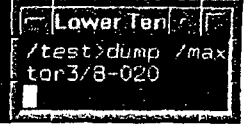


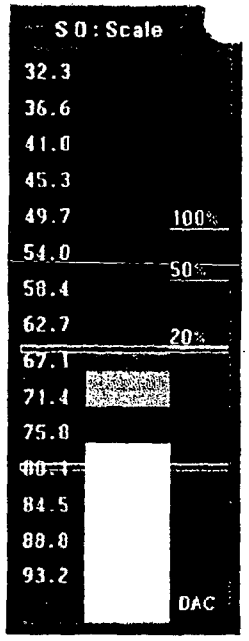


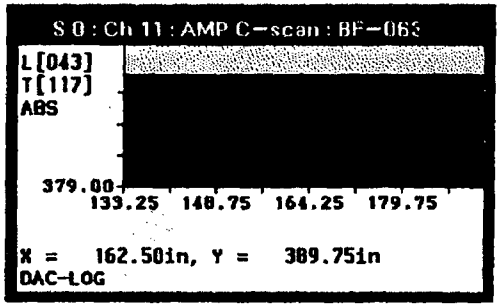


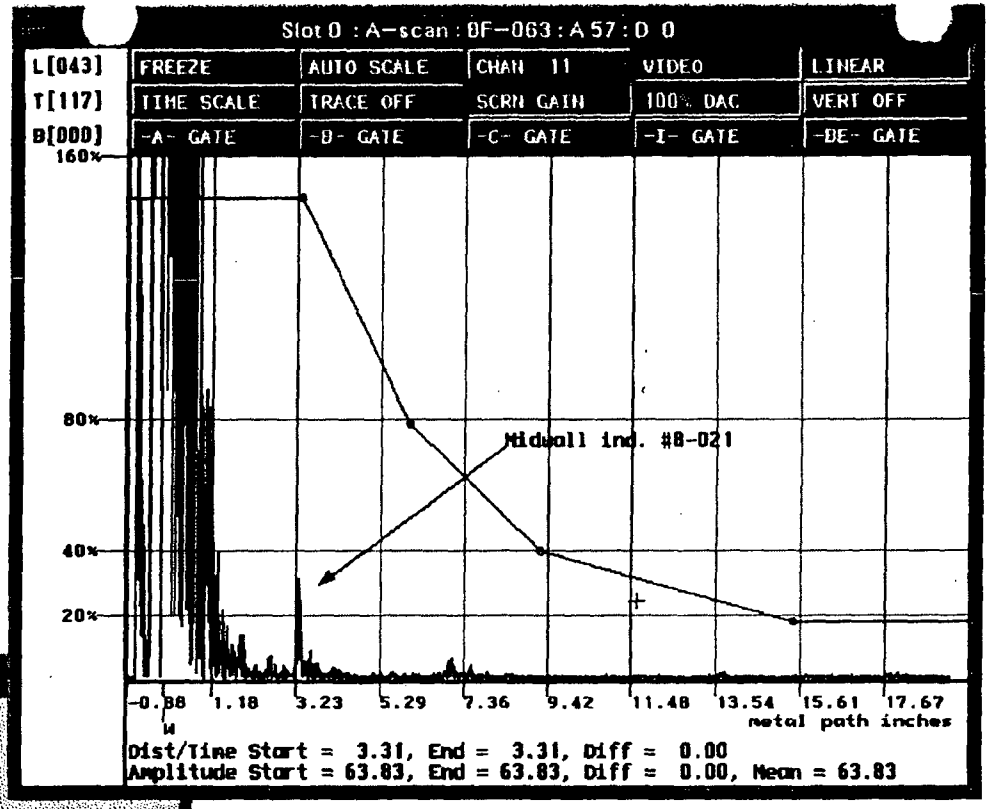


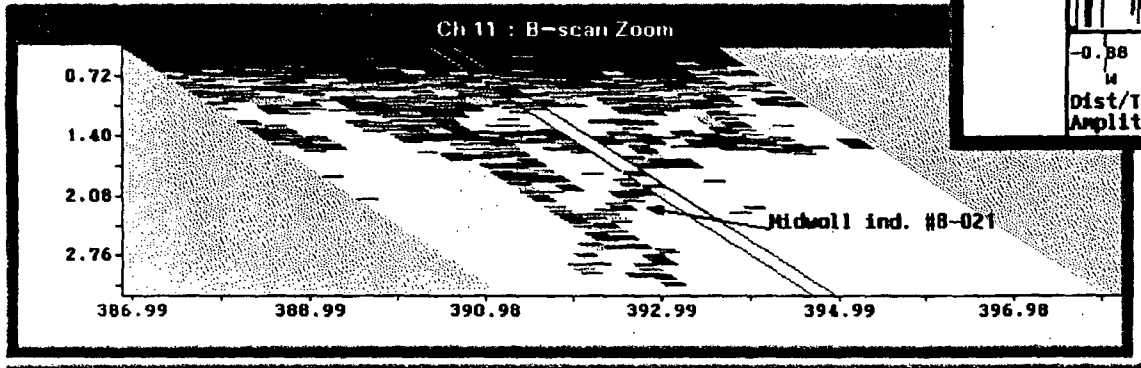


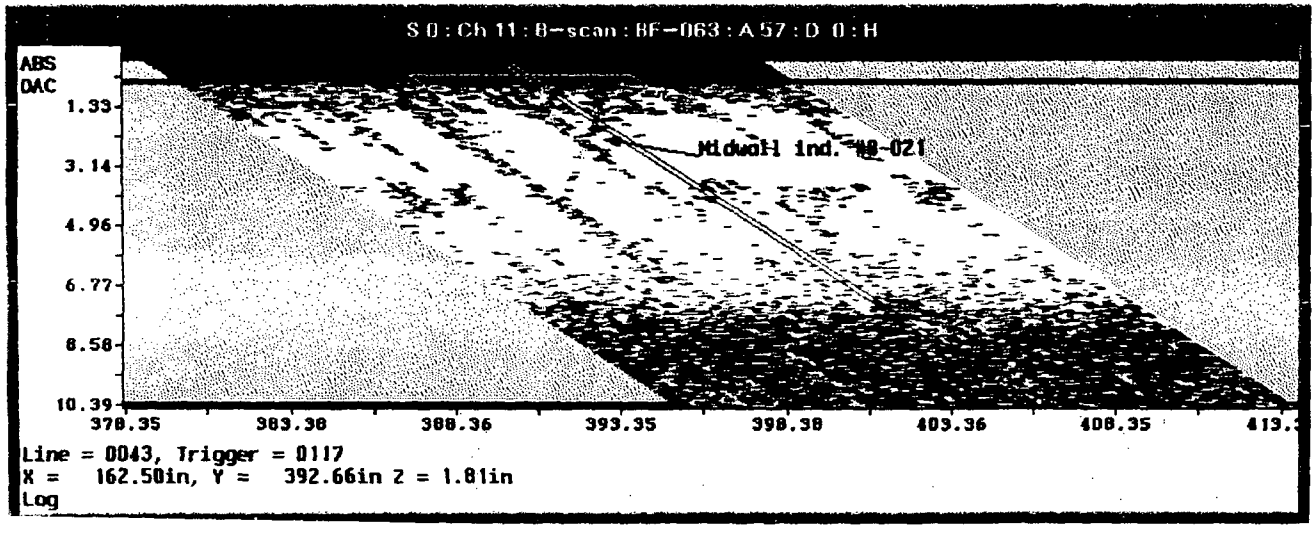


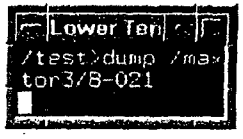






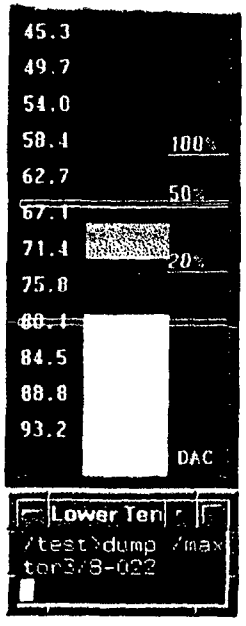


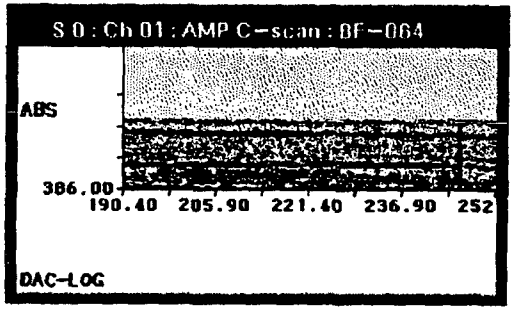


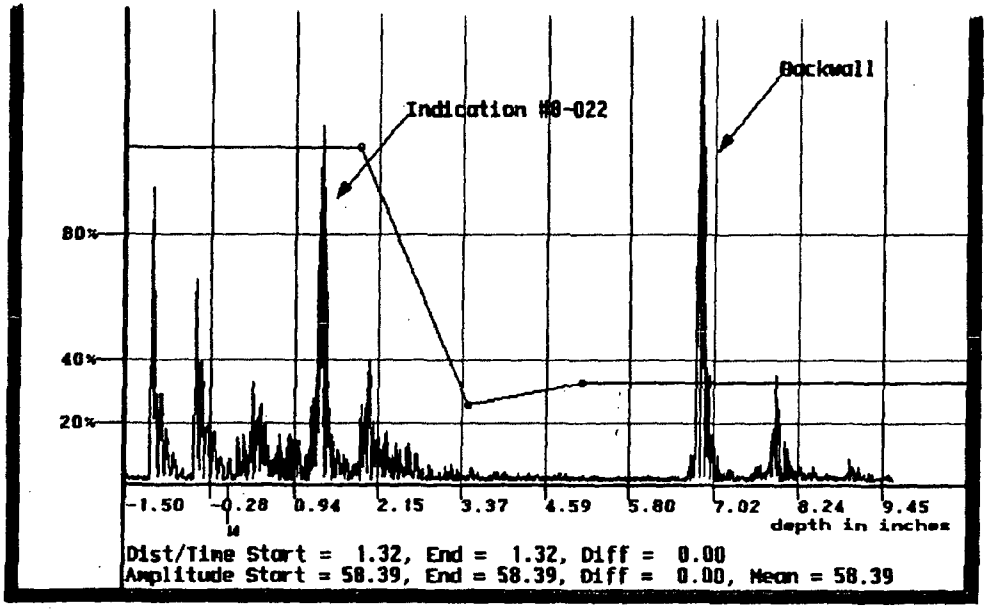


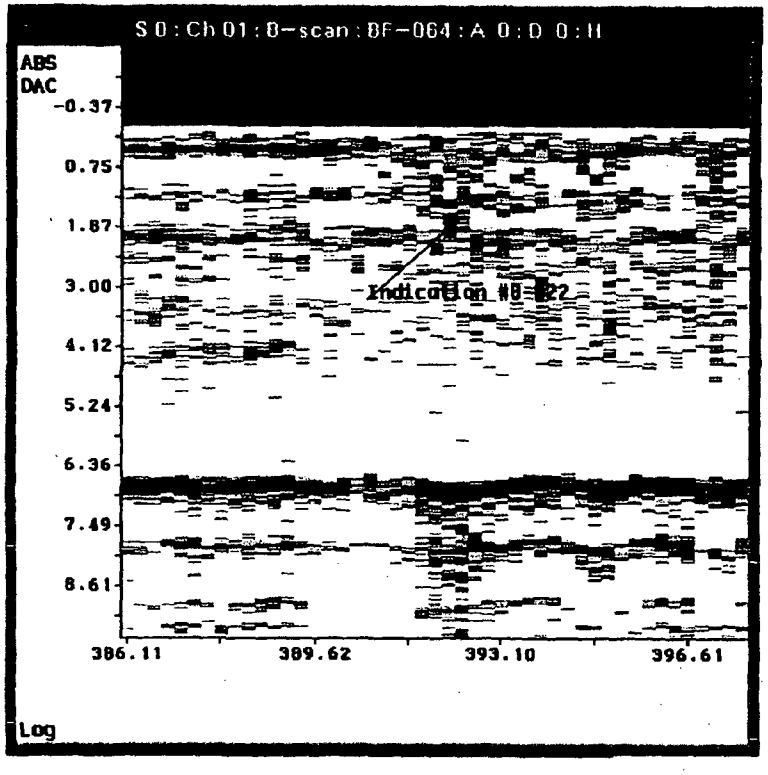
00200

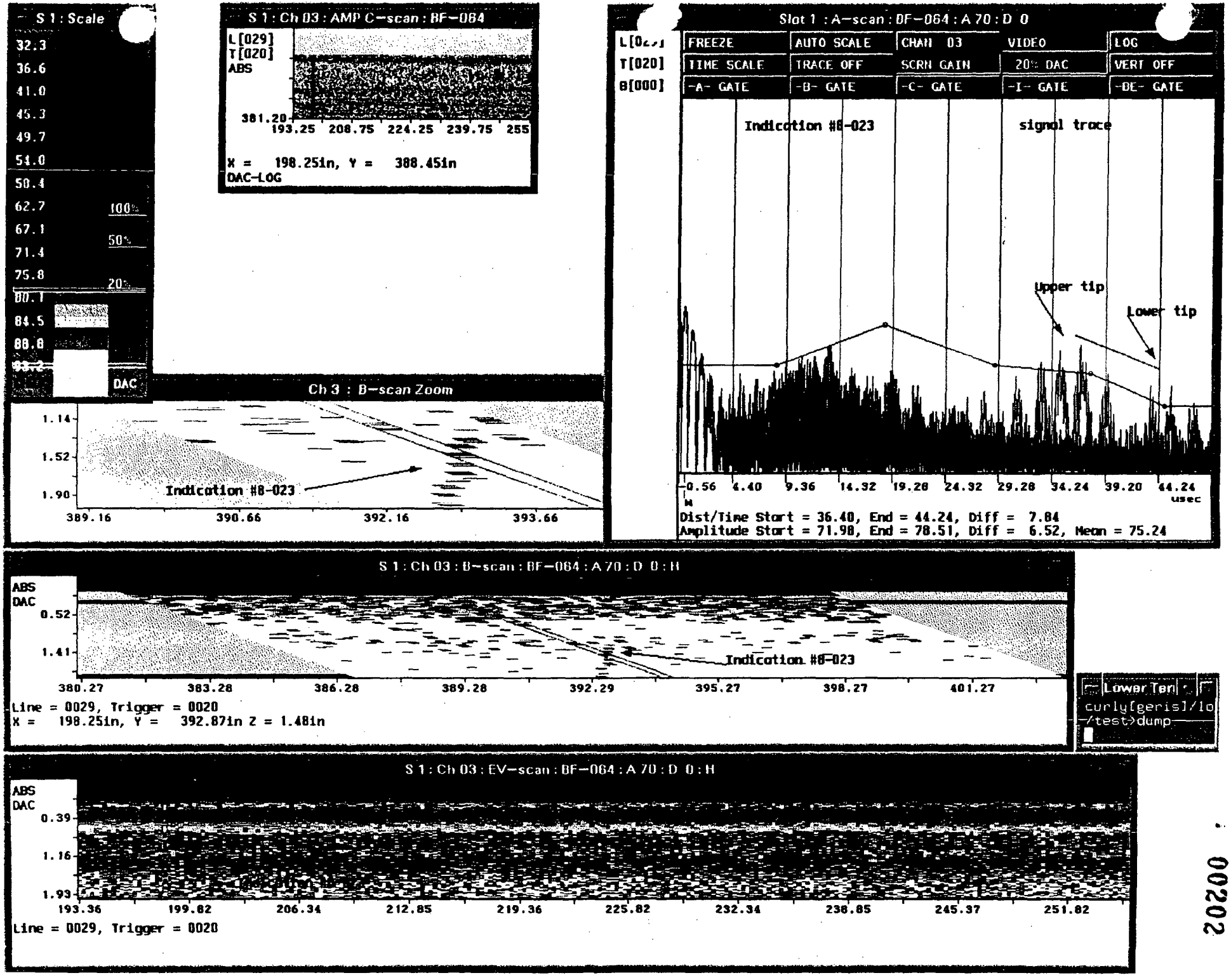
R1154
200 OF 276



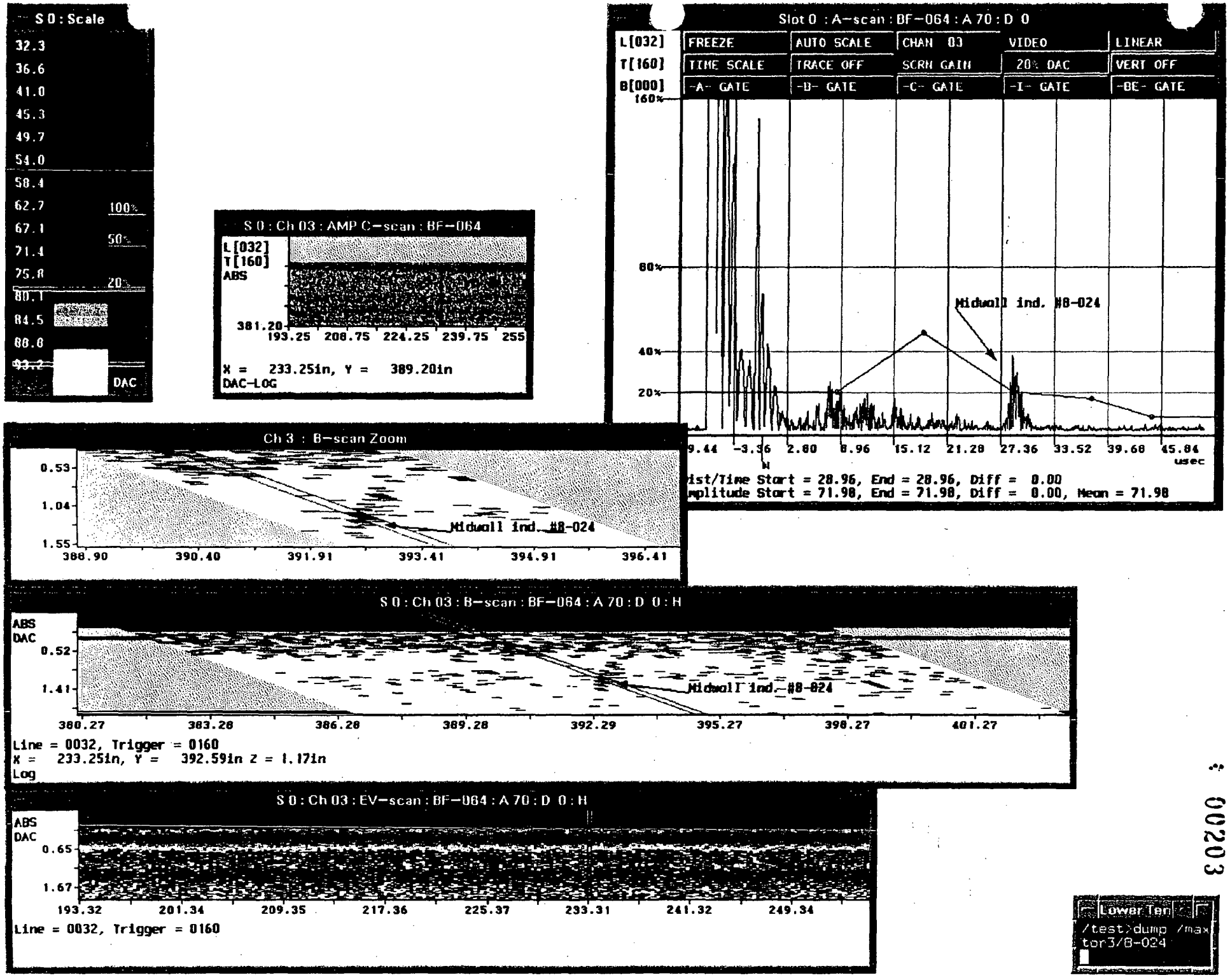






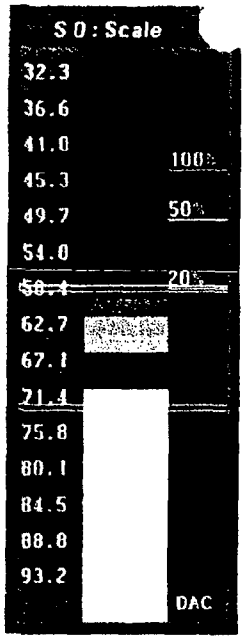


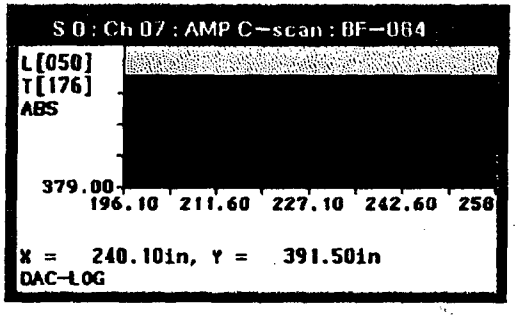
R1154
202 OF 276
00202

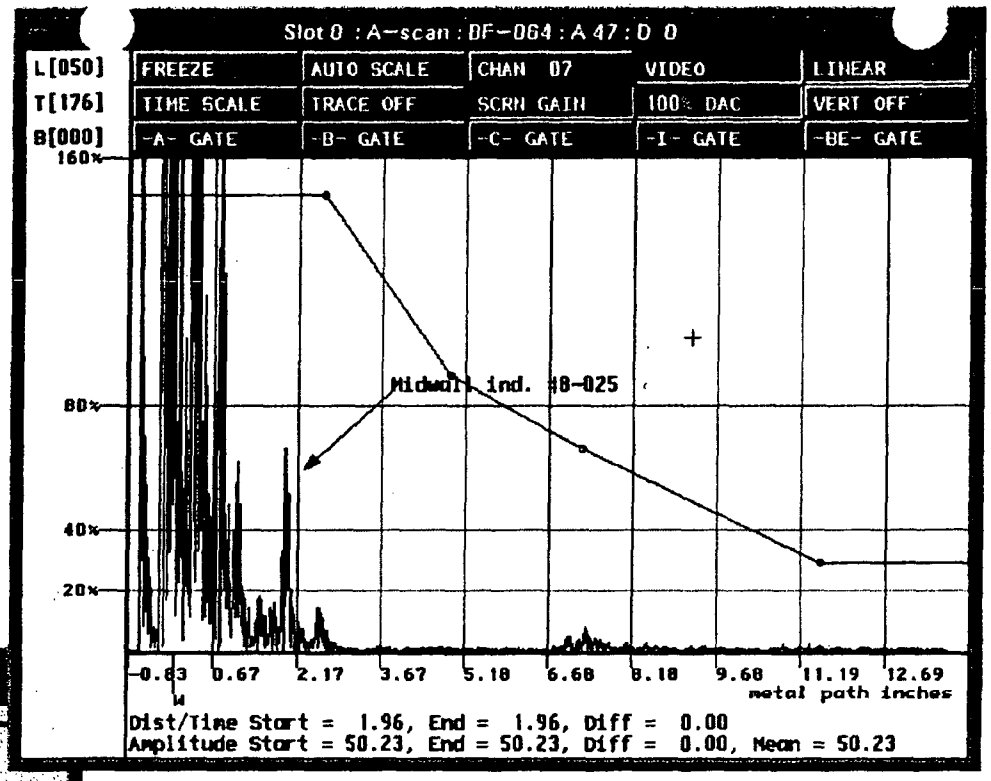


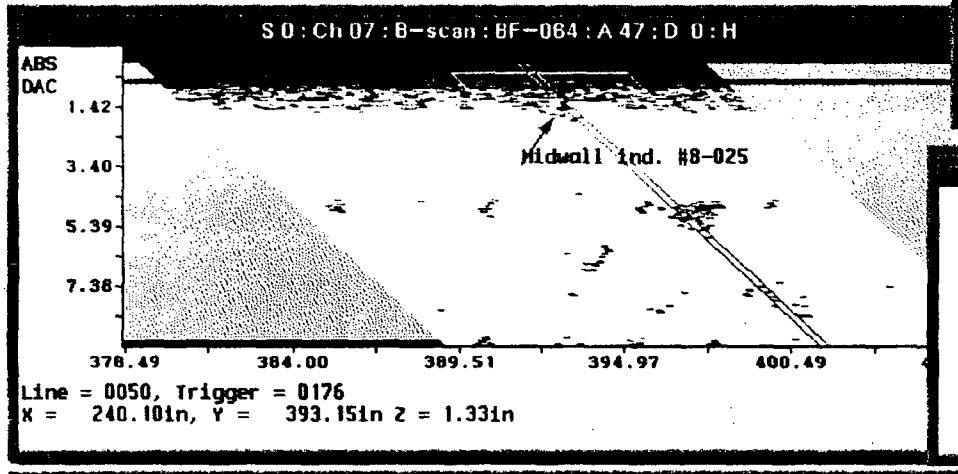
R1154
203 of 276

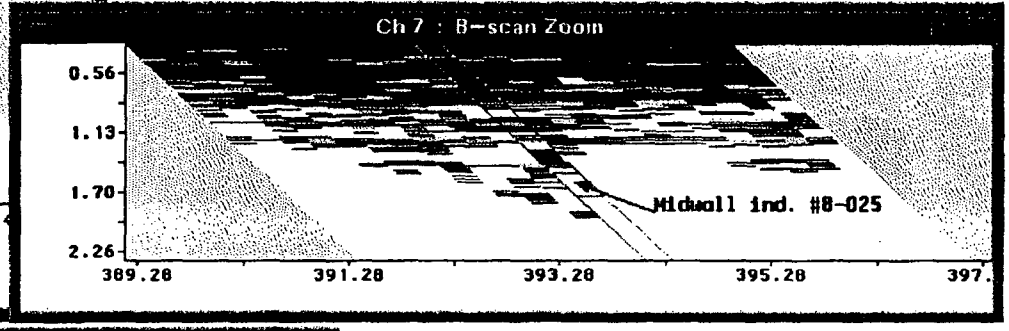
00203

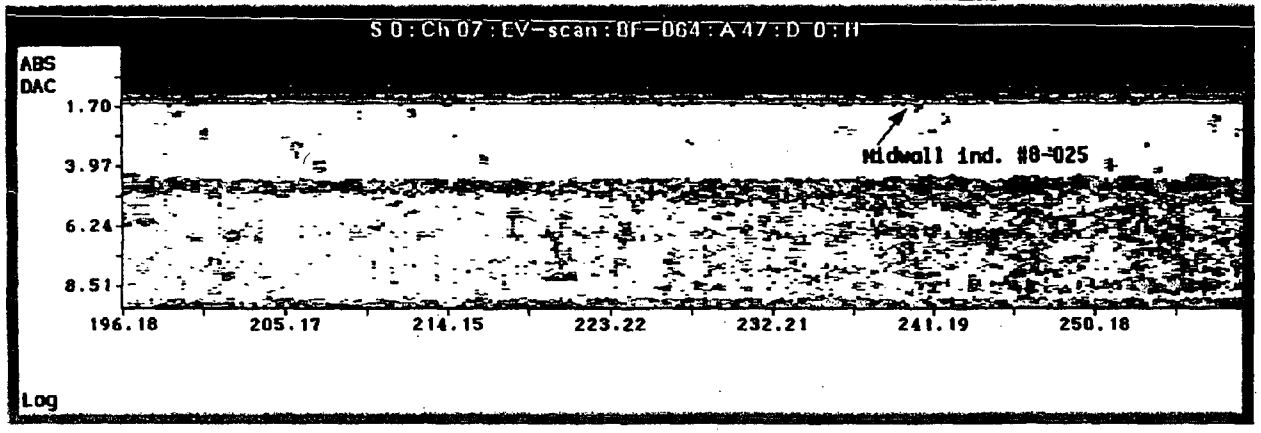


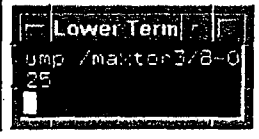




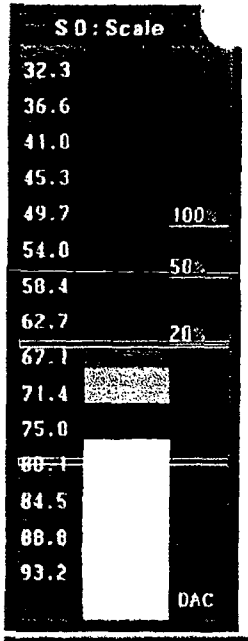


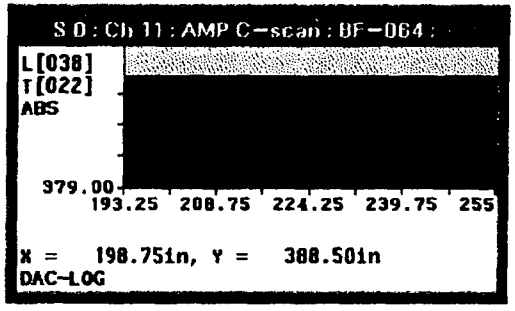


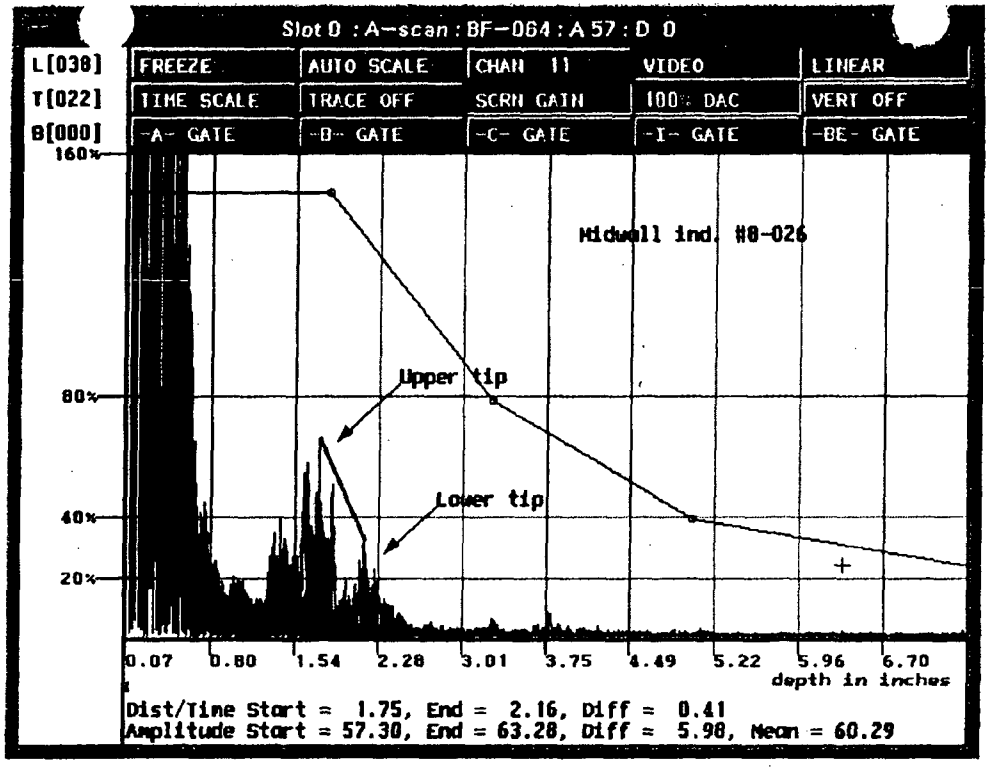


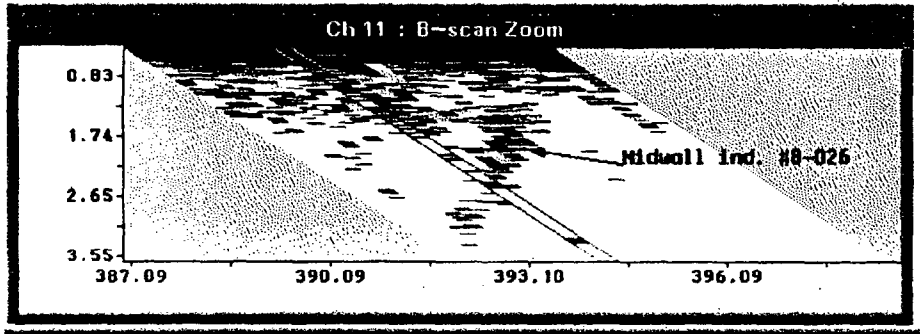


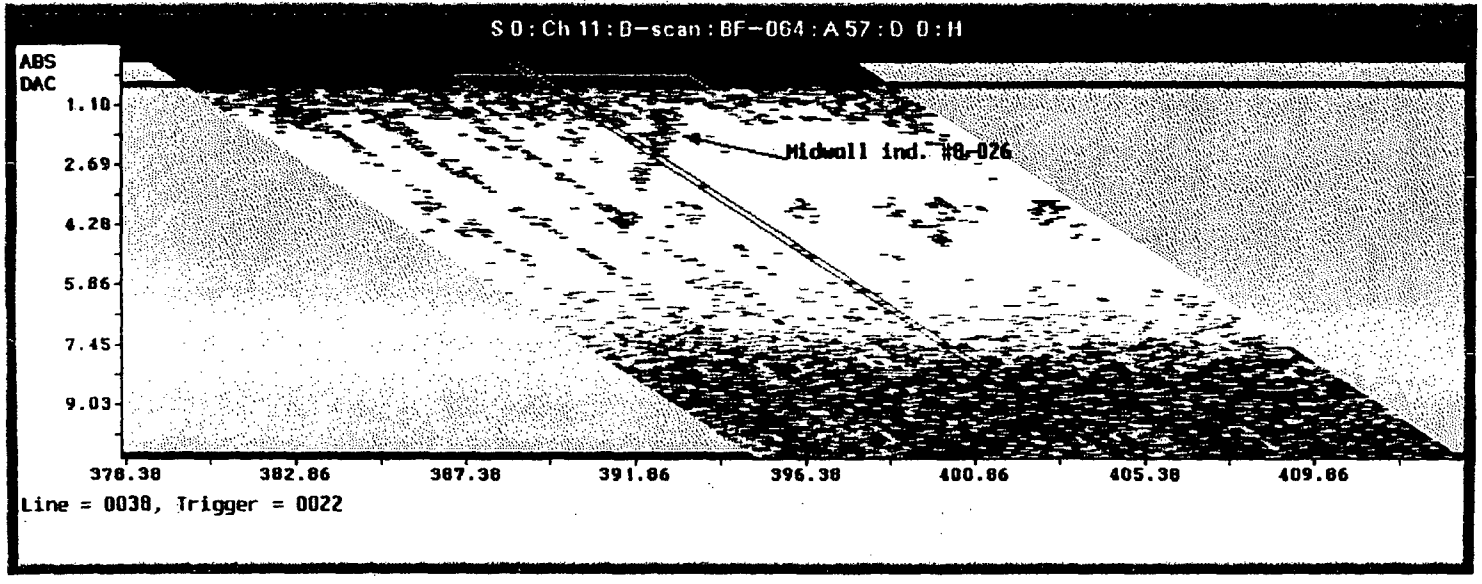
R 1154
204 OF 276
00204

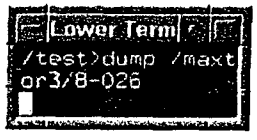




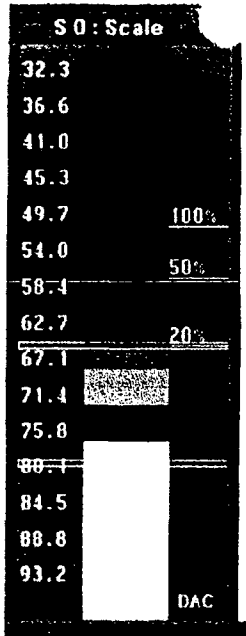


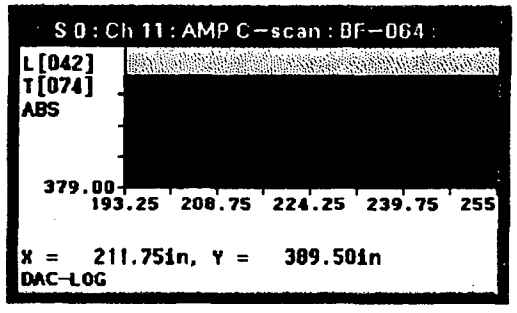


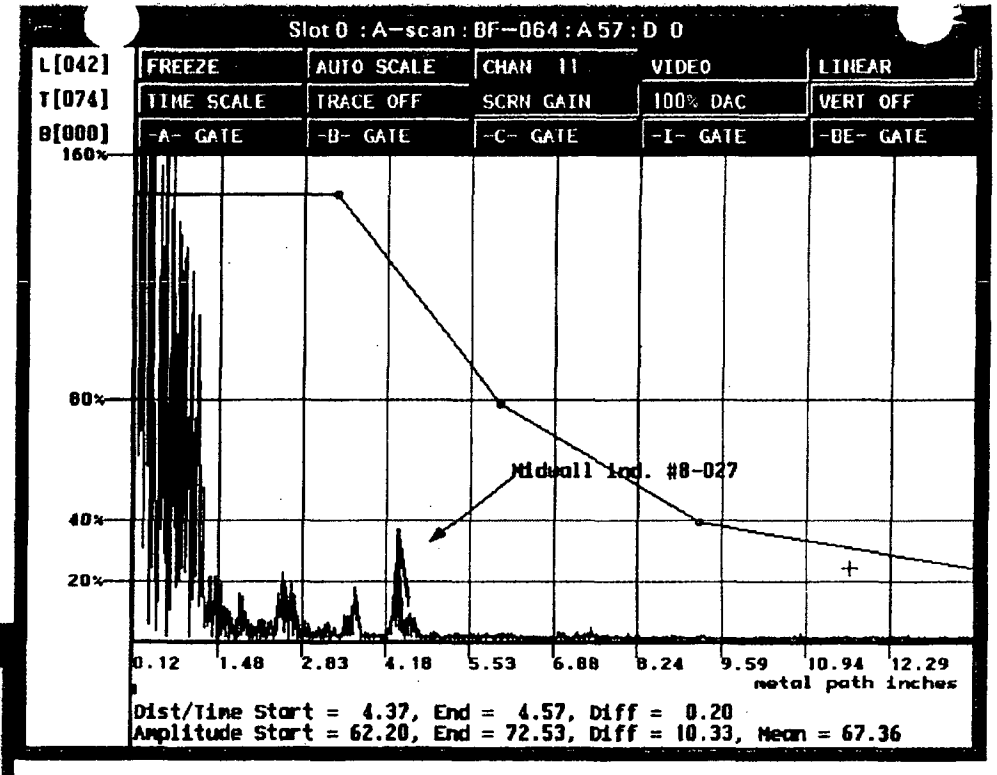


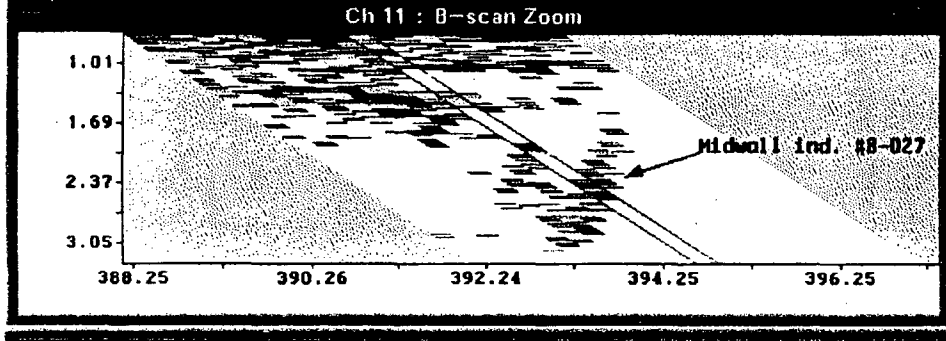


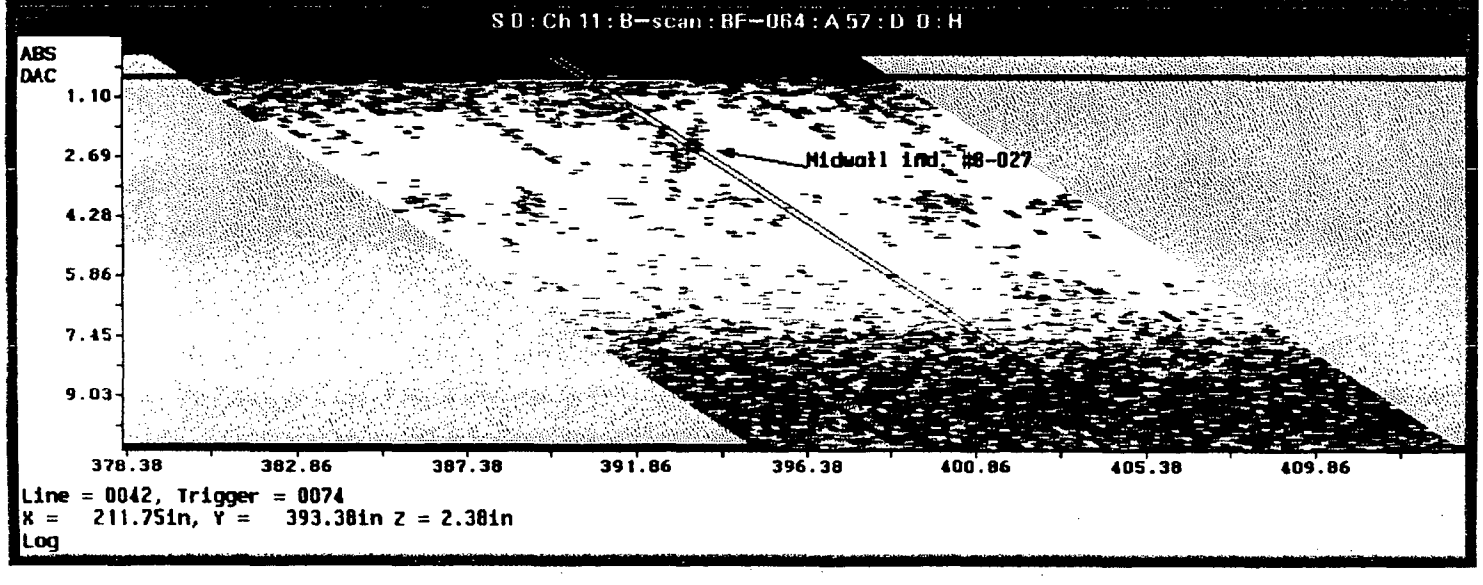
R 1154
205 OF 276
: 00205

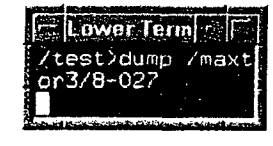




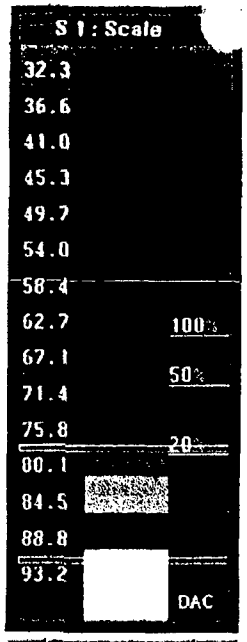


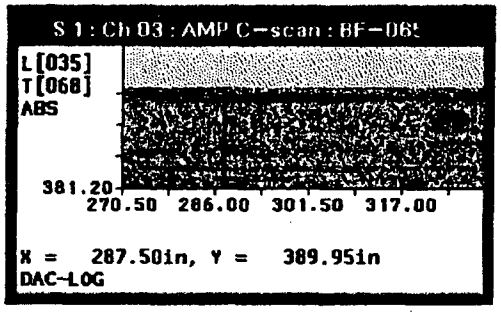


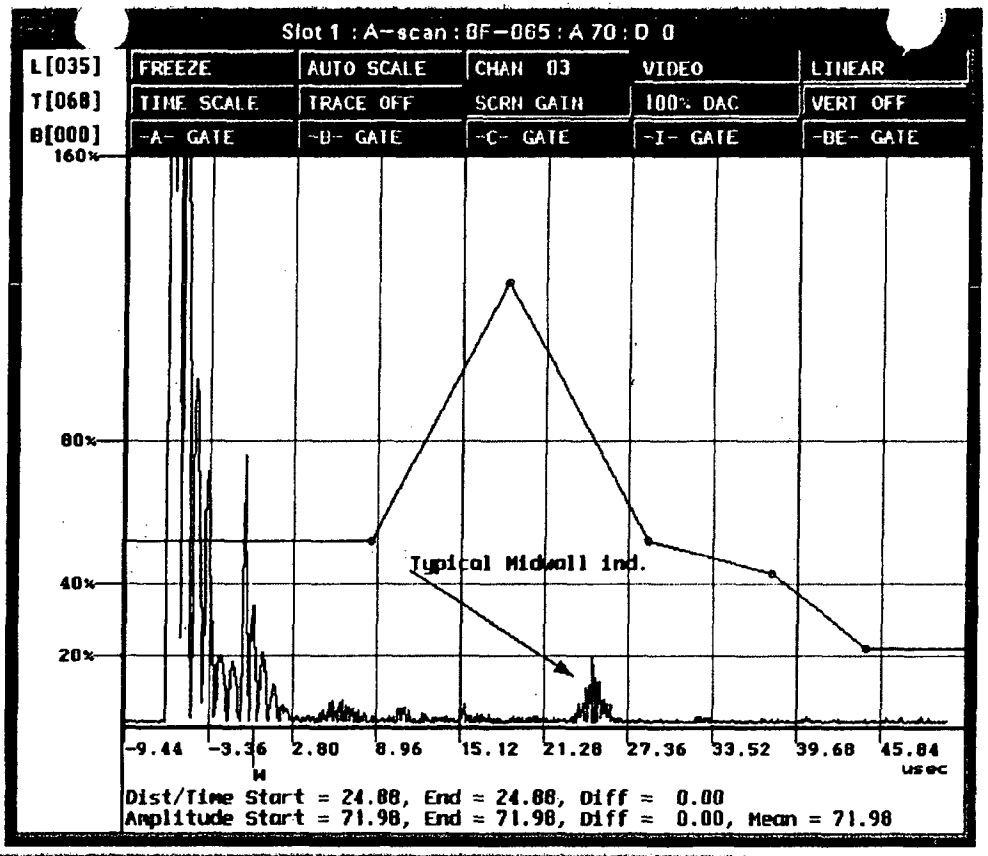


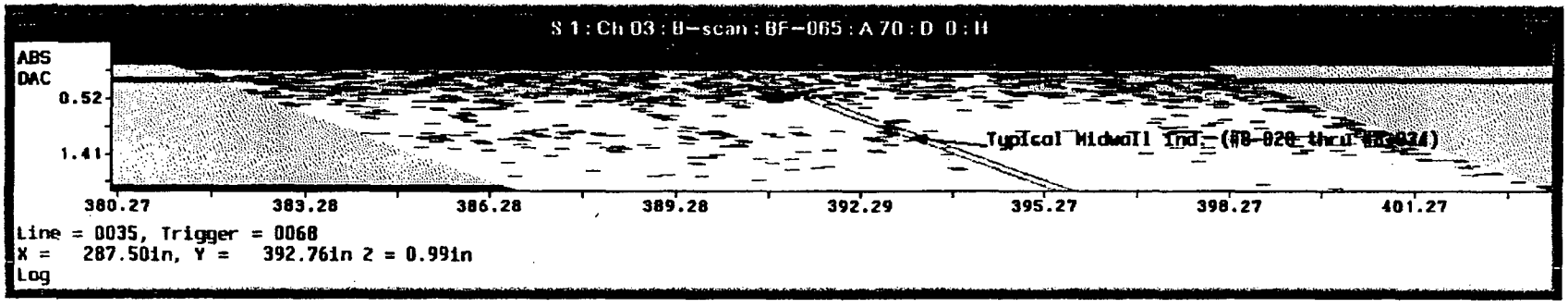


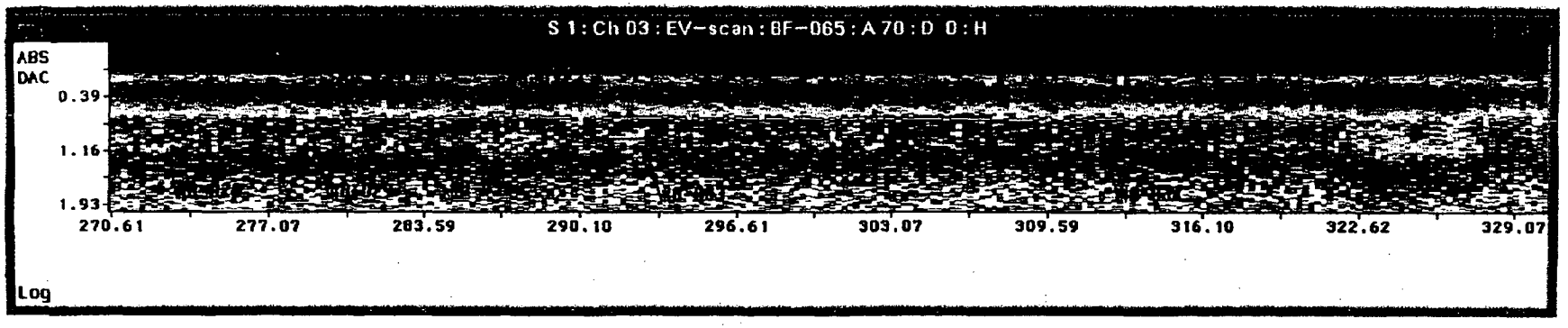
R1154
206 OF 276
00206



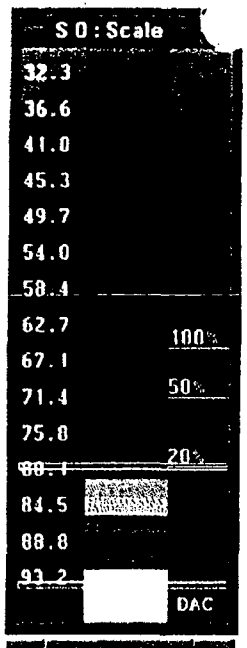


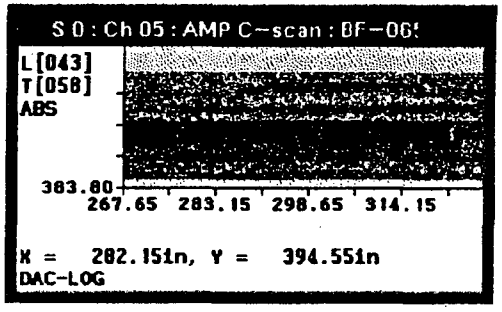


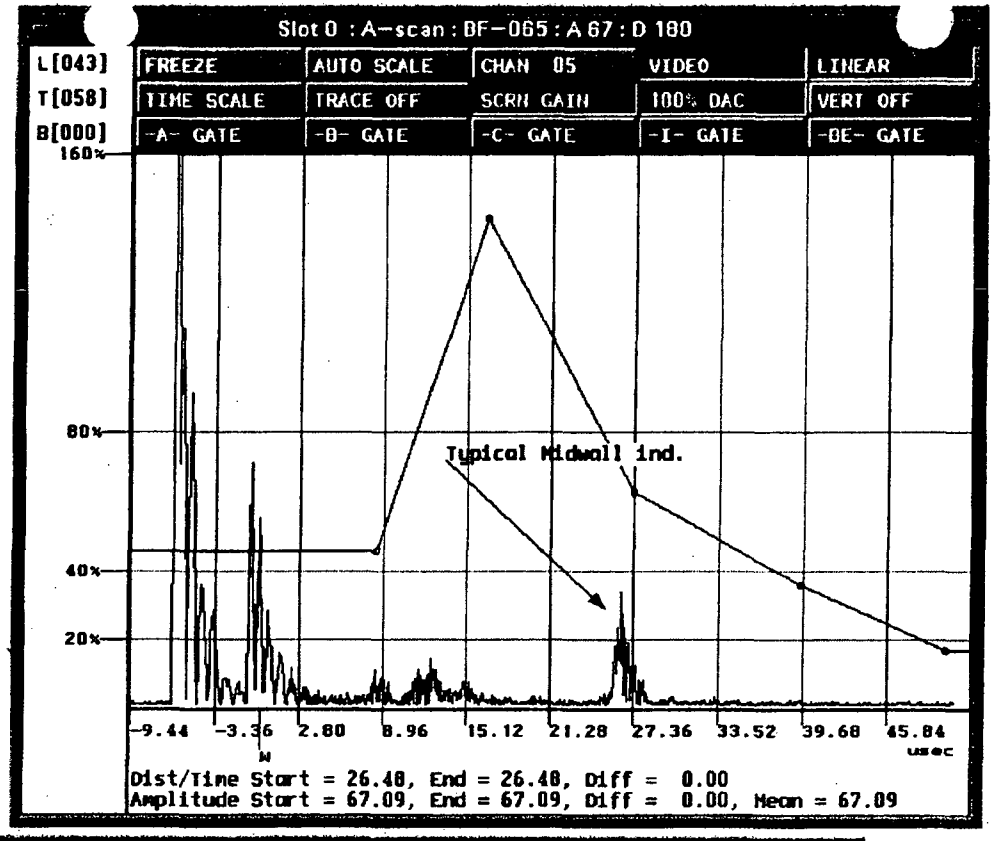


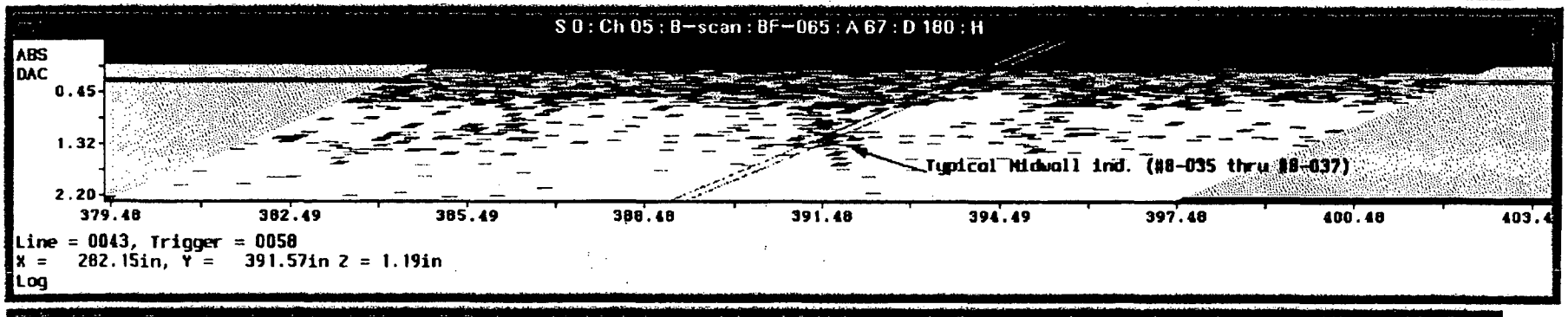


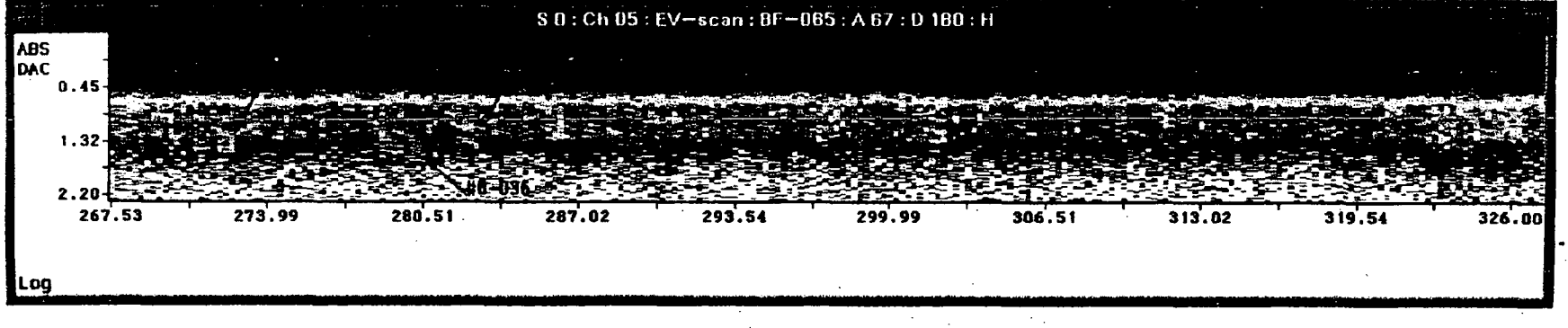
R 1154
207 OF 276
00207

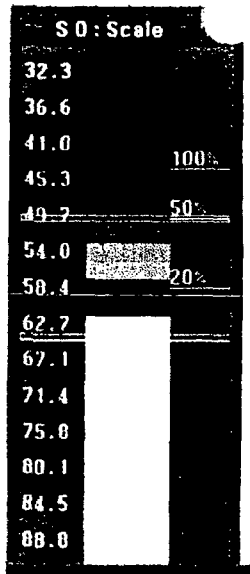


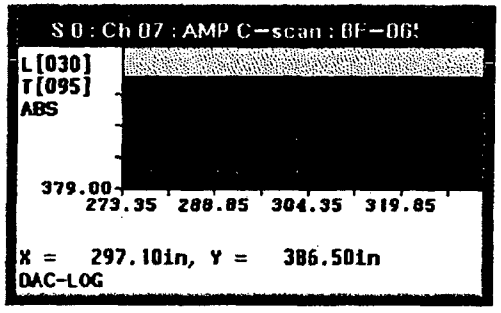


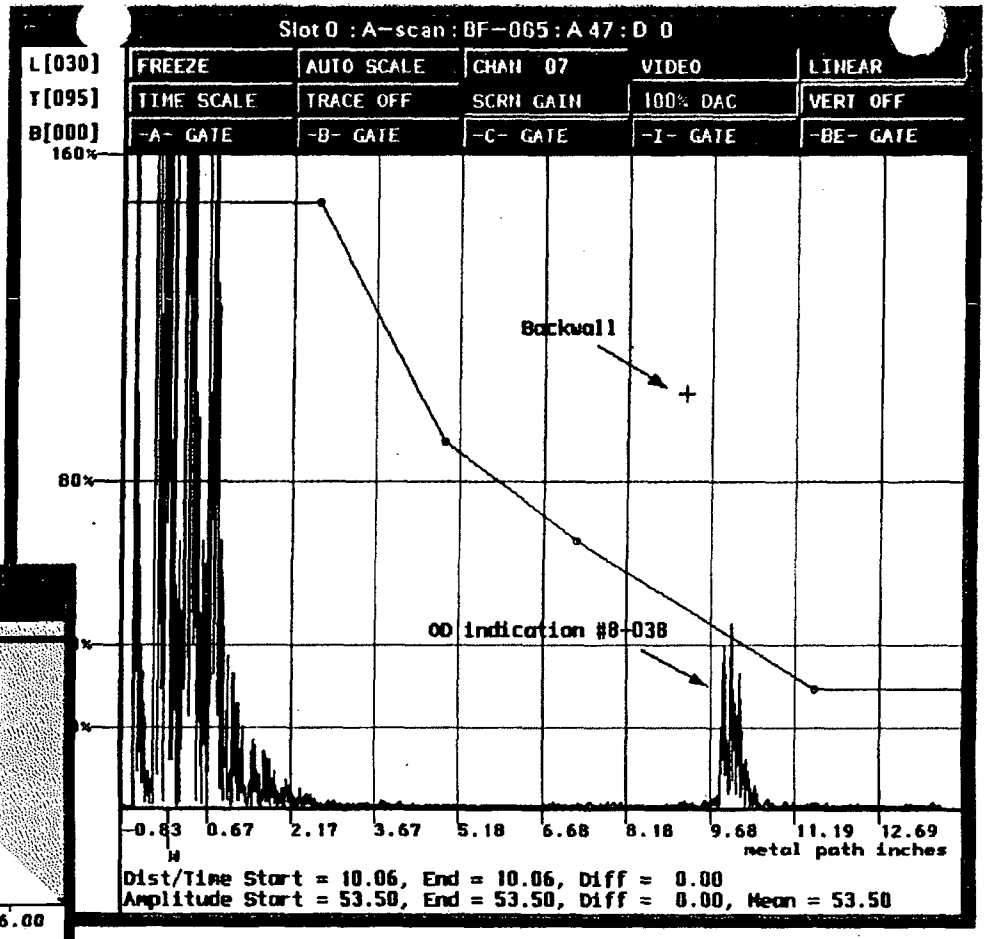


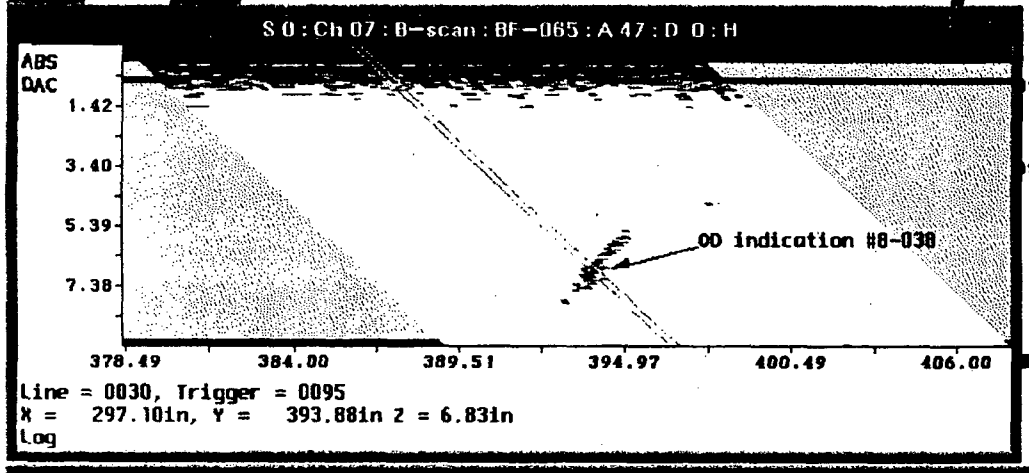


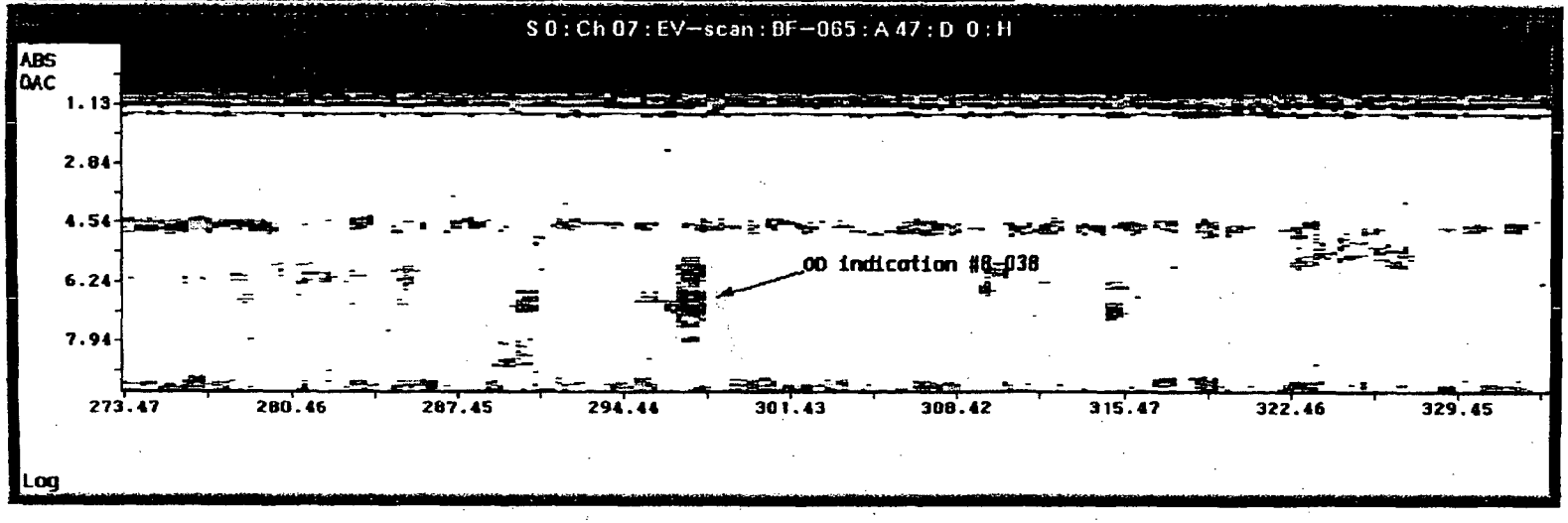






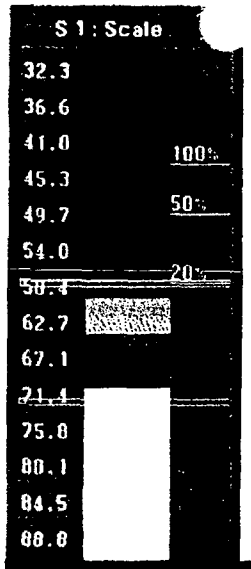


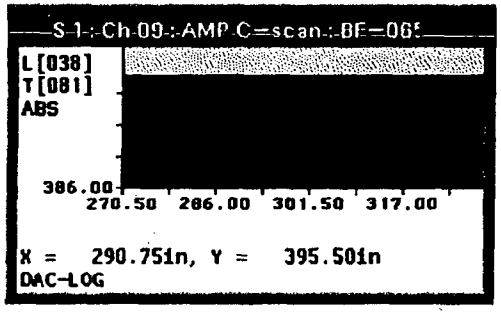


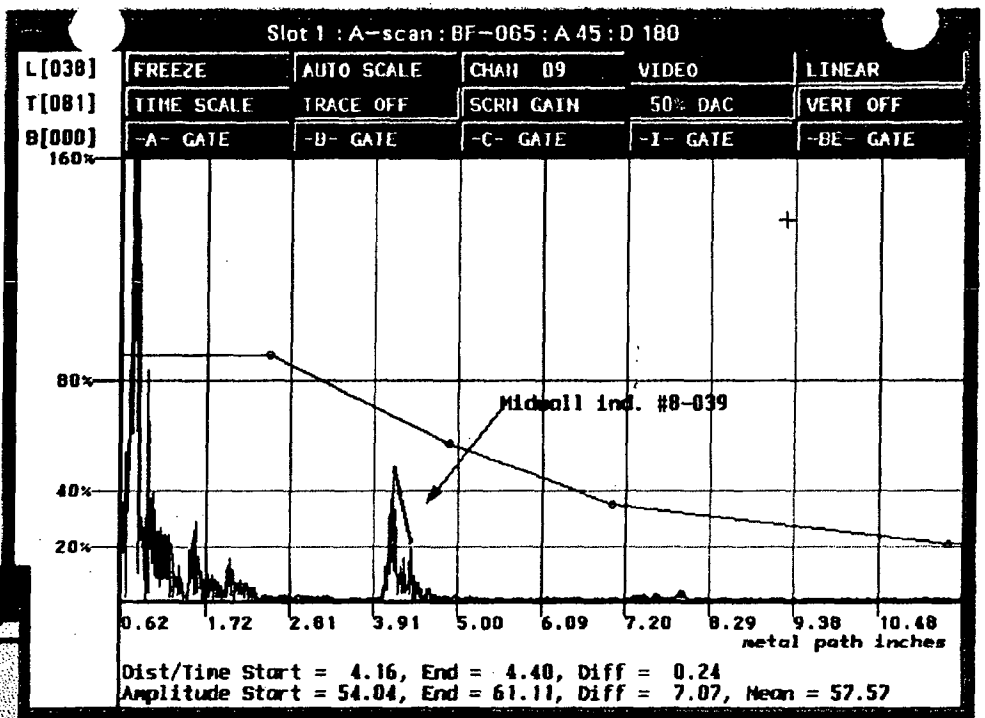


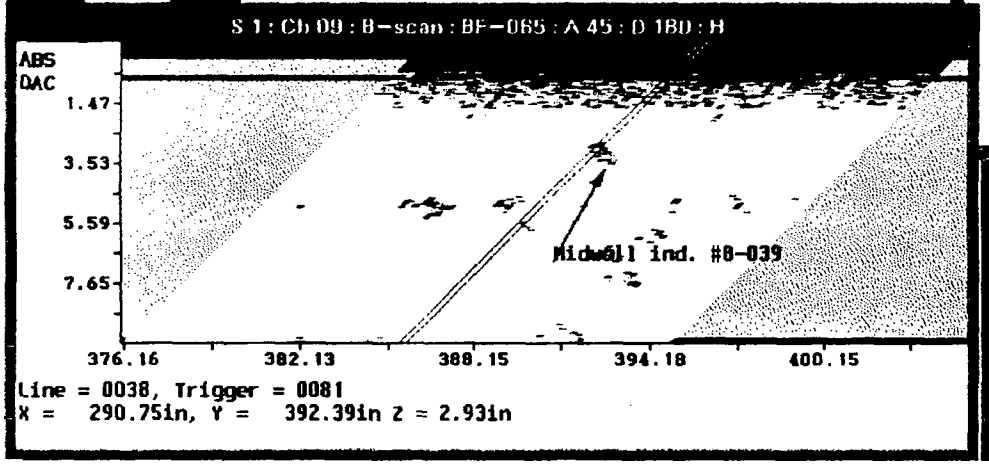
00209

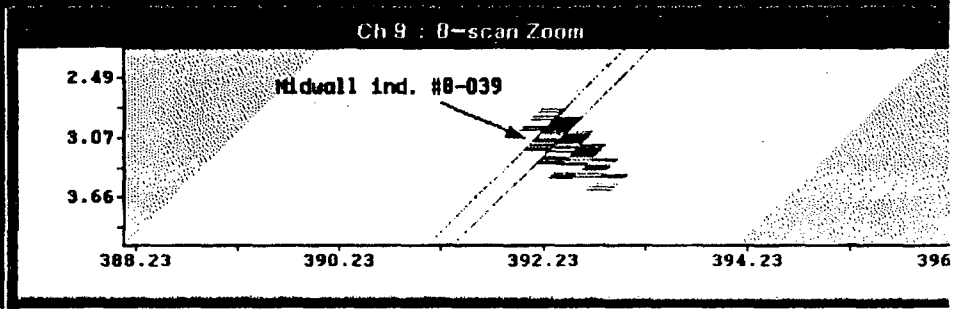
R 1154
209 of 276

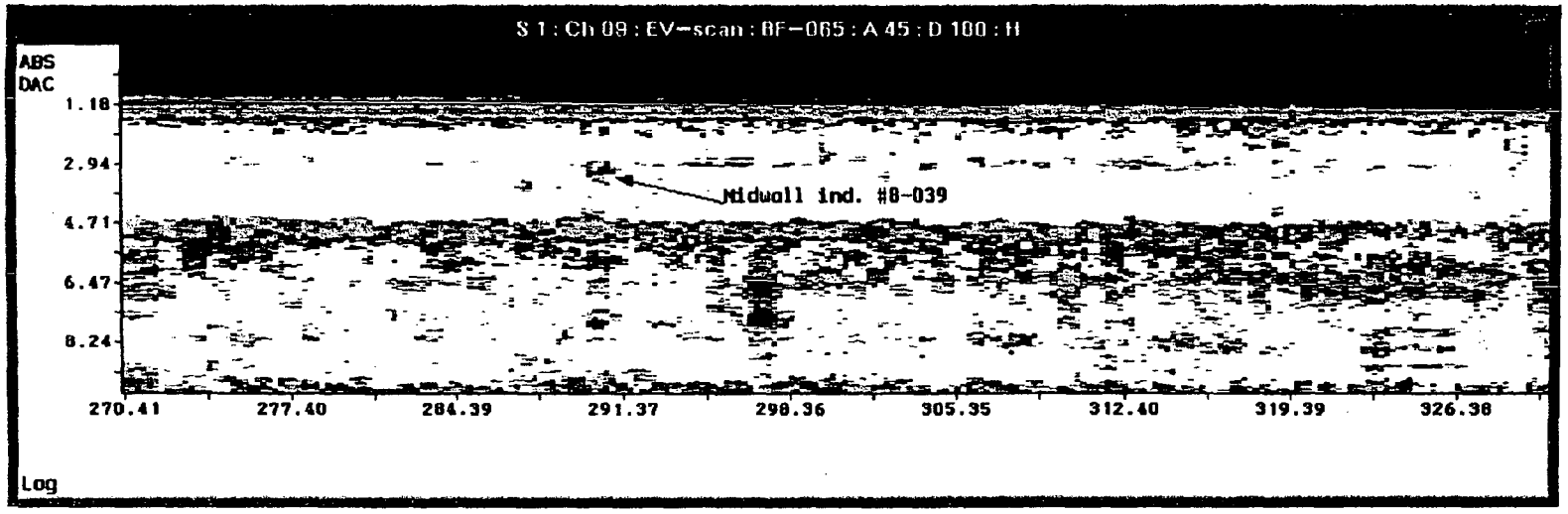


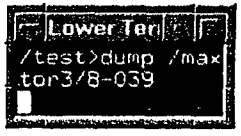




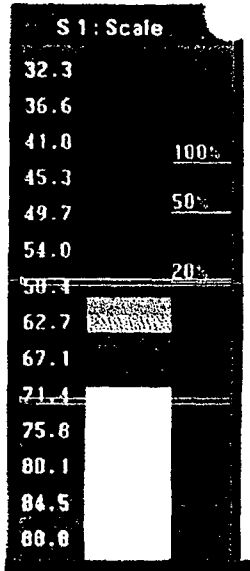


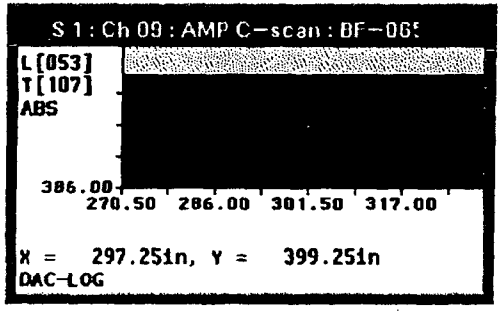


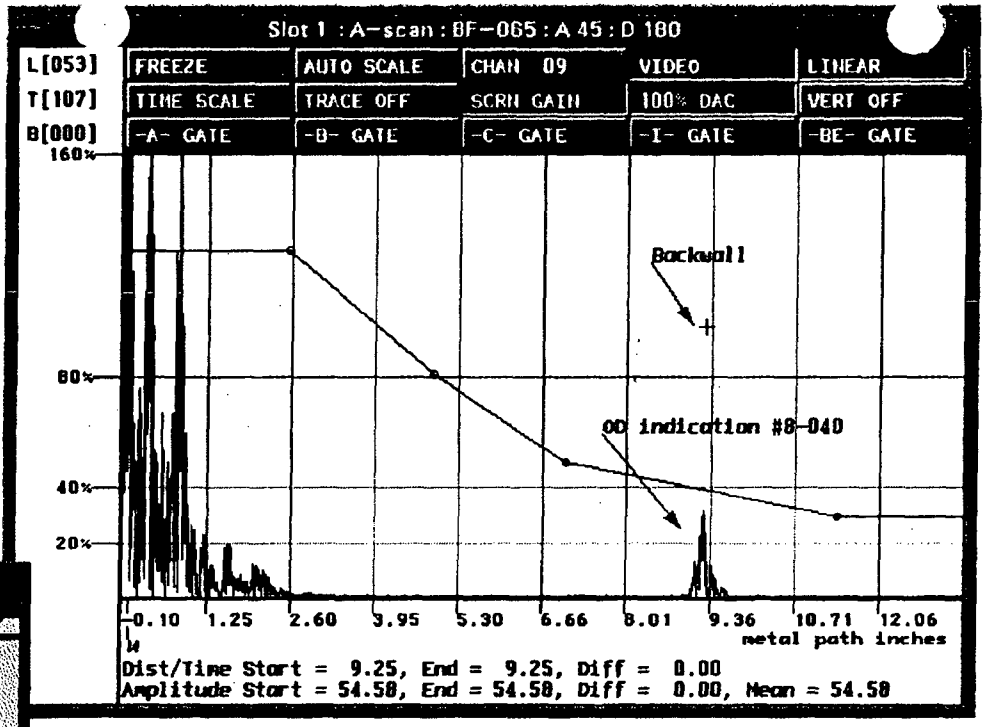


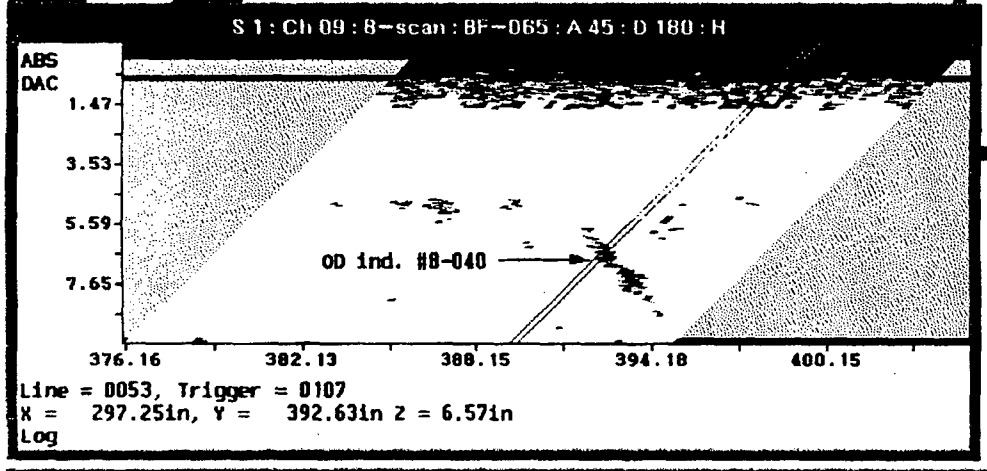


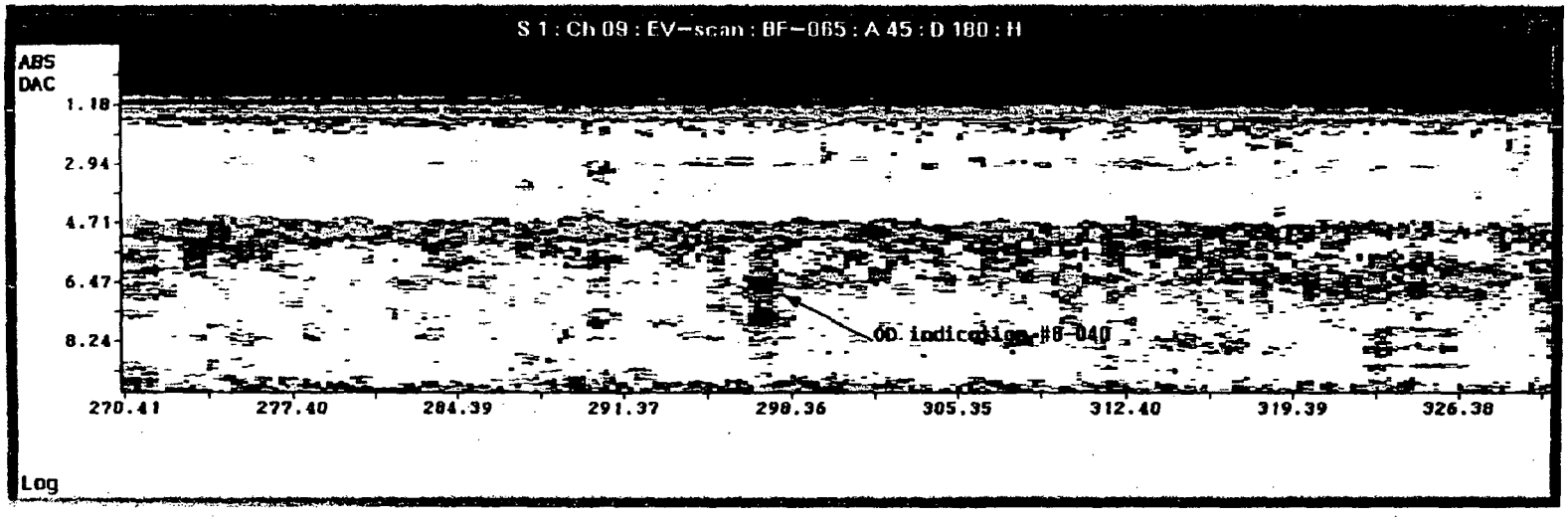
R 1154
210 OF 276
00210





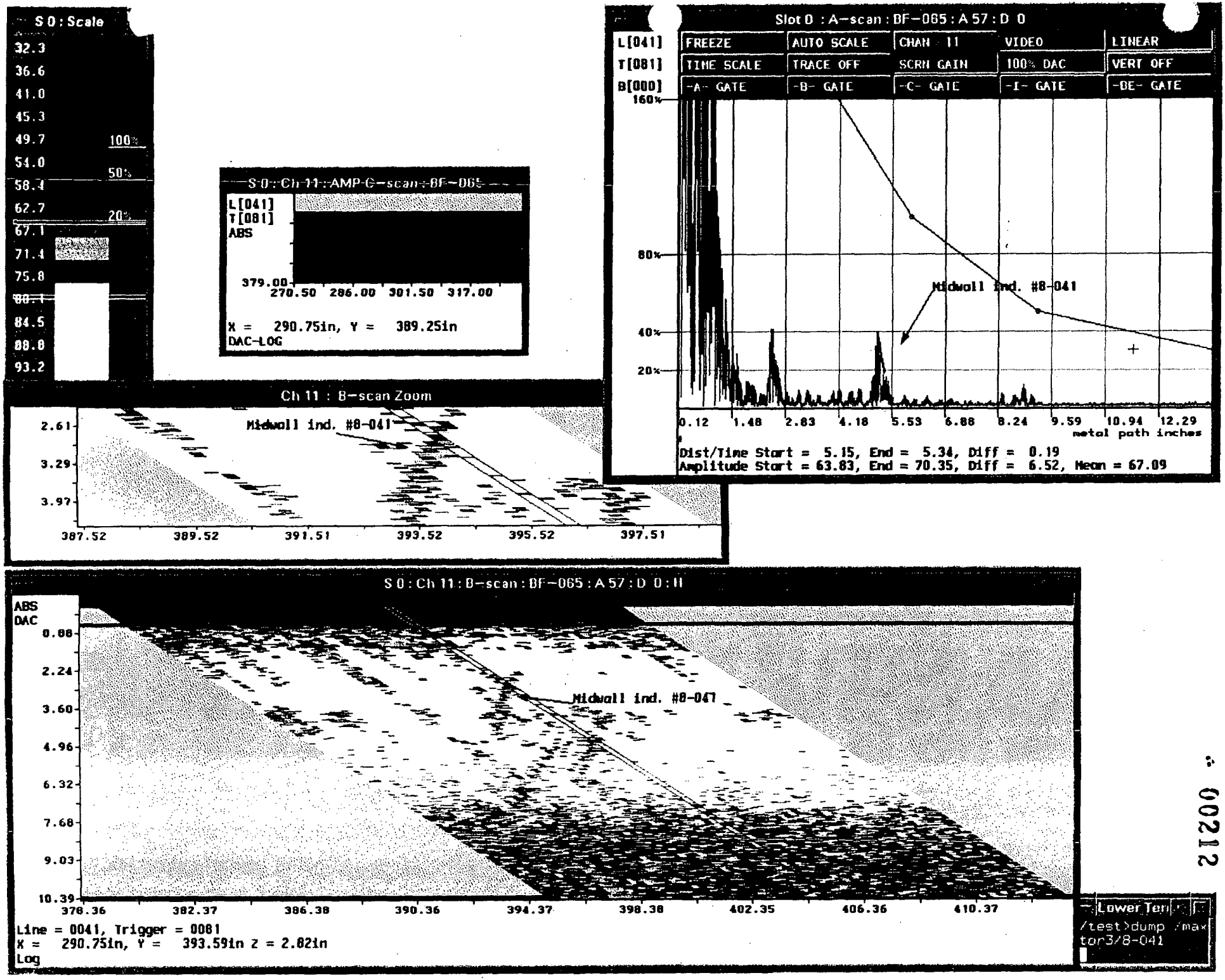




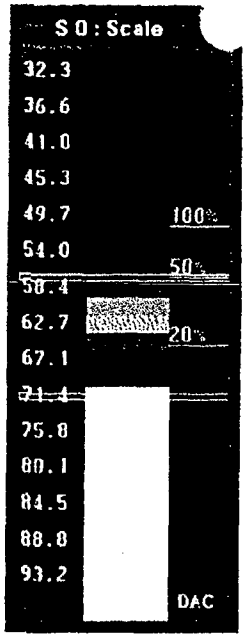


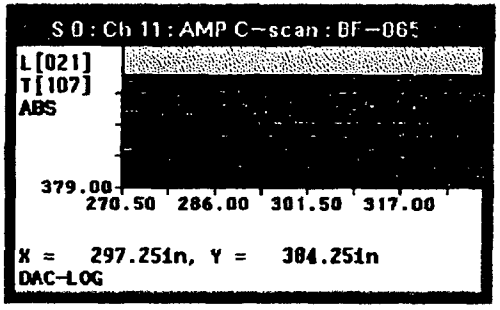
00211

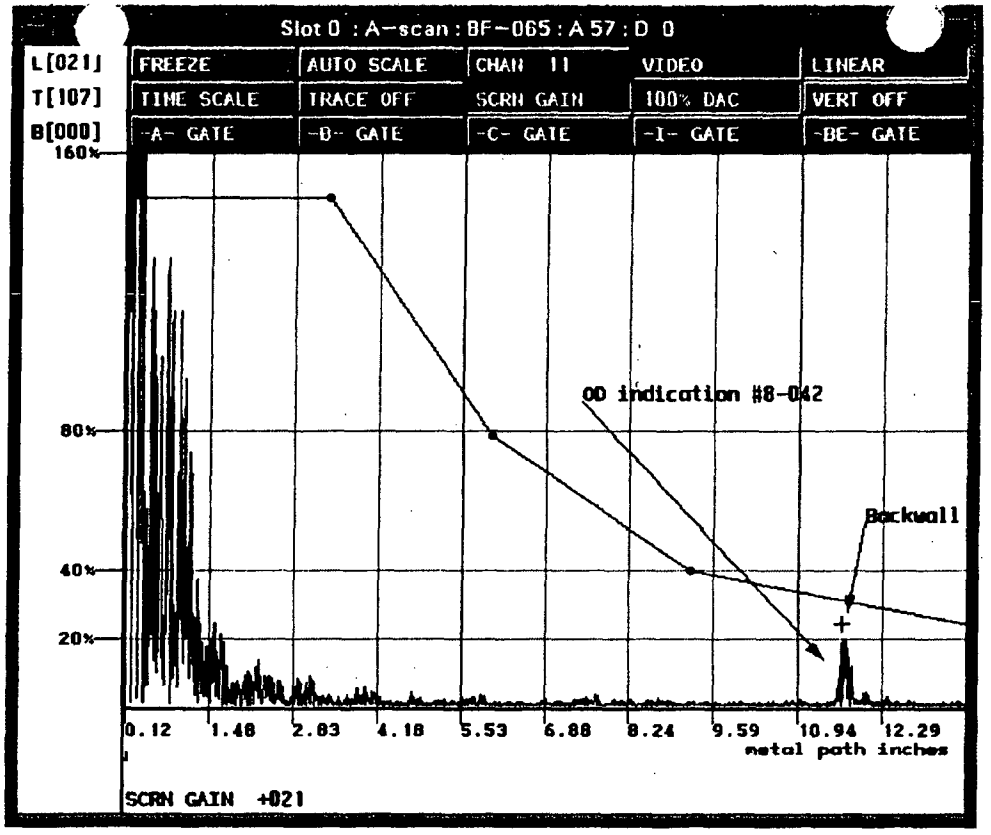
R1154
211 of 276

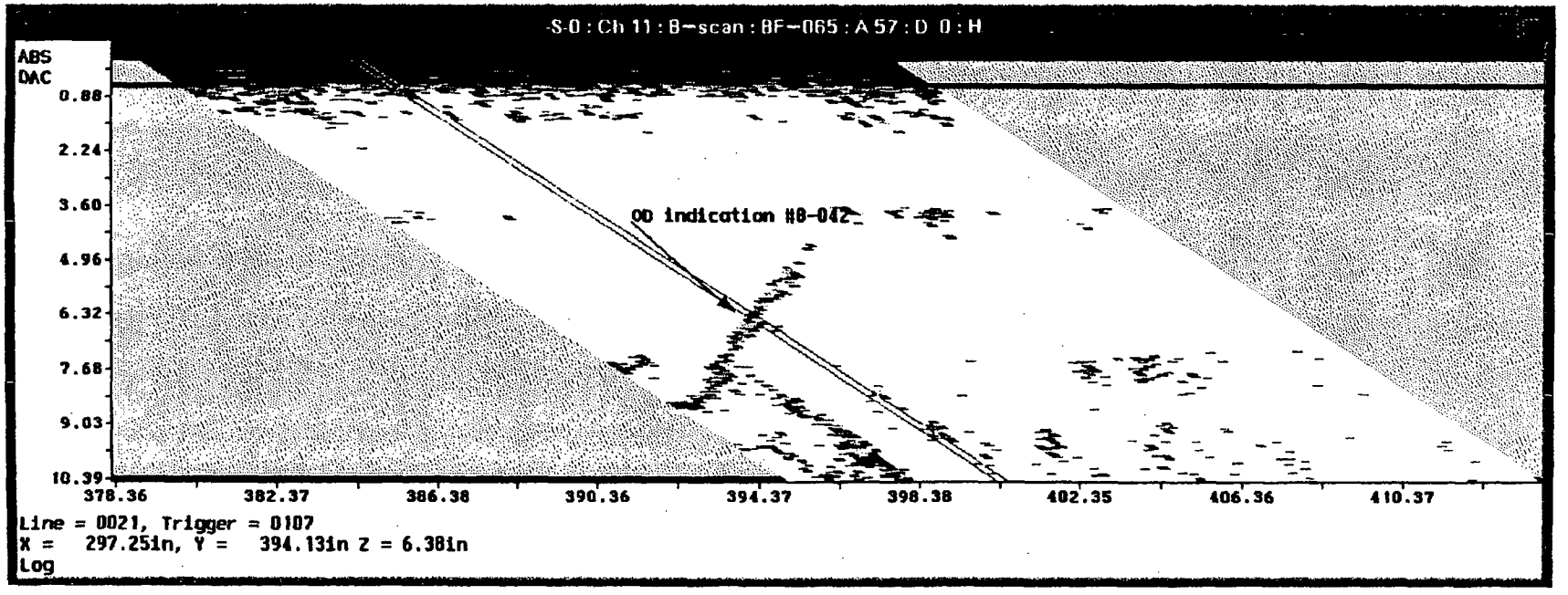


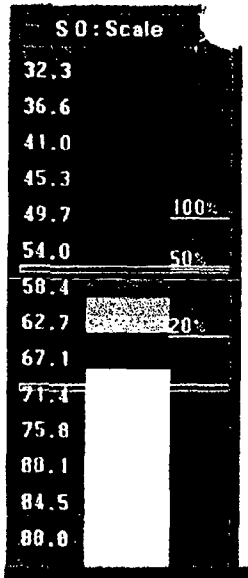
R1154
212 of 276
: 00212

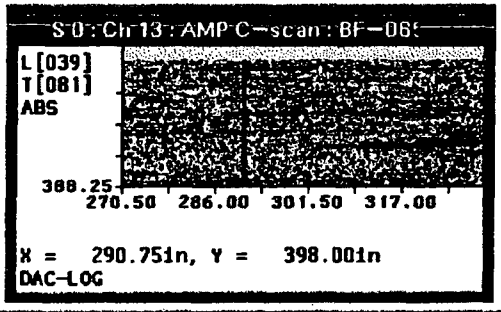


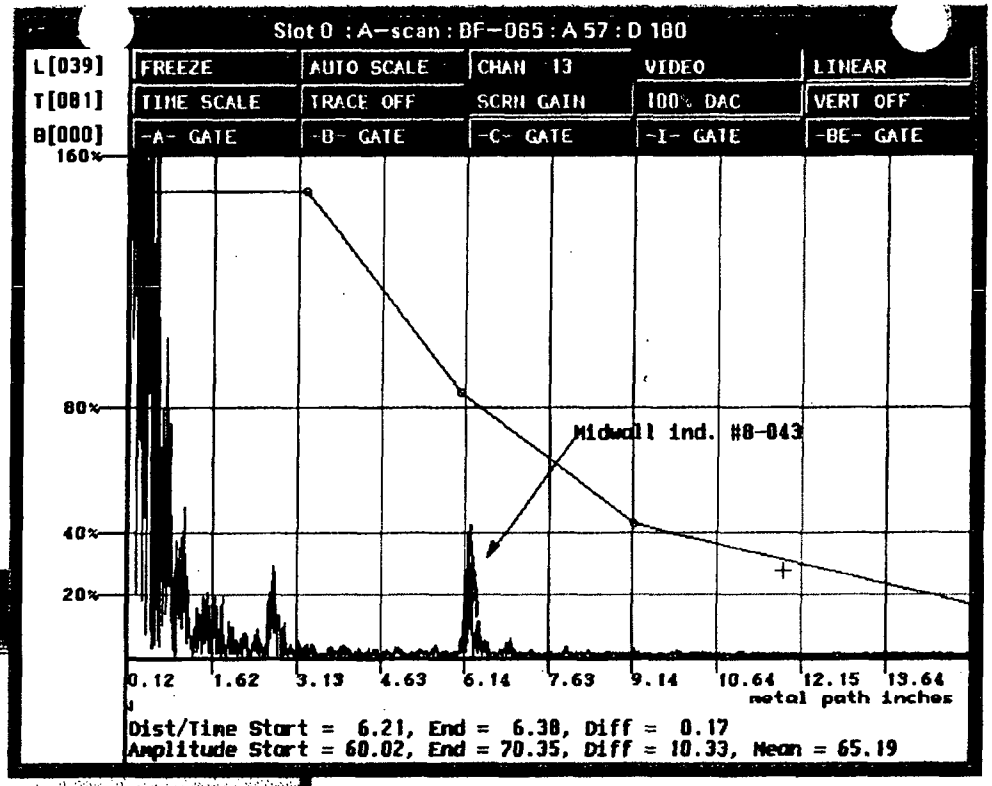


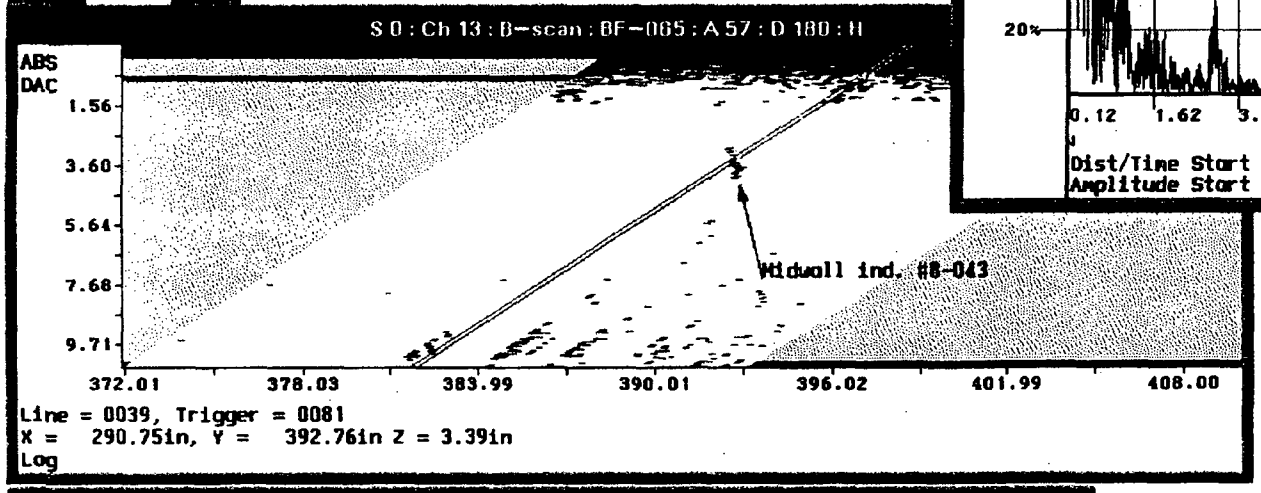


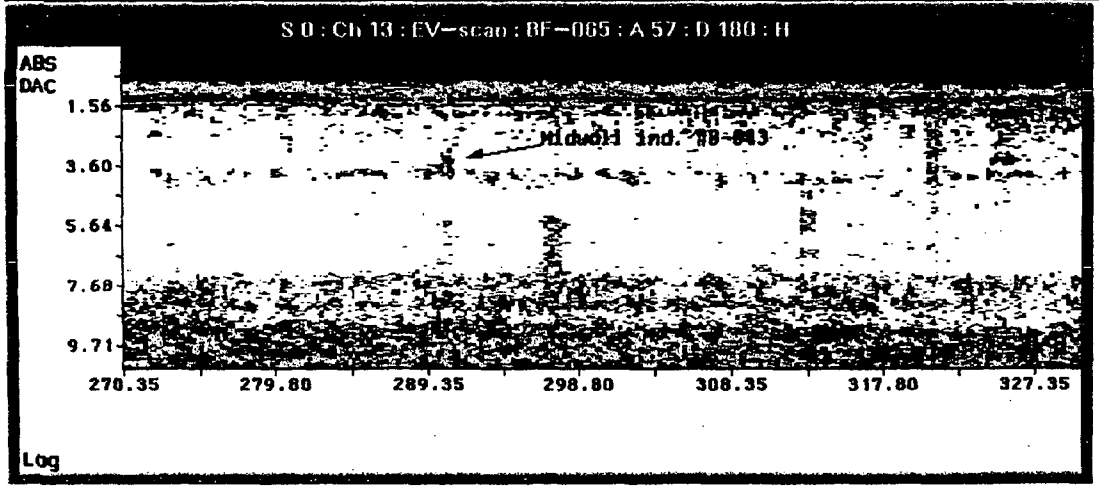




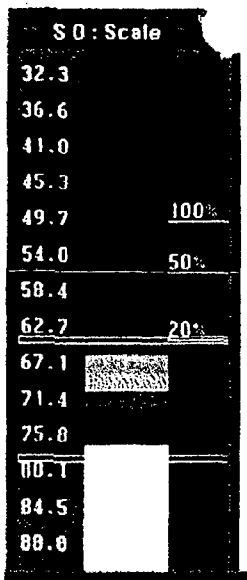


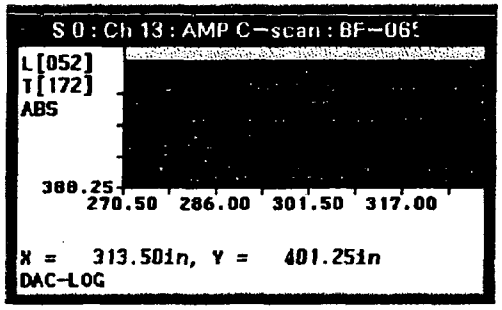


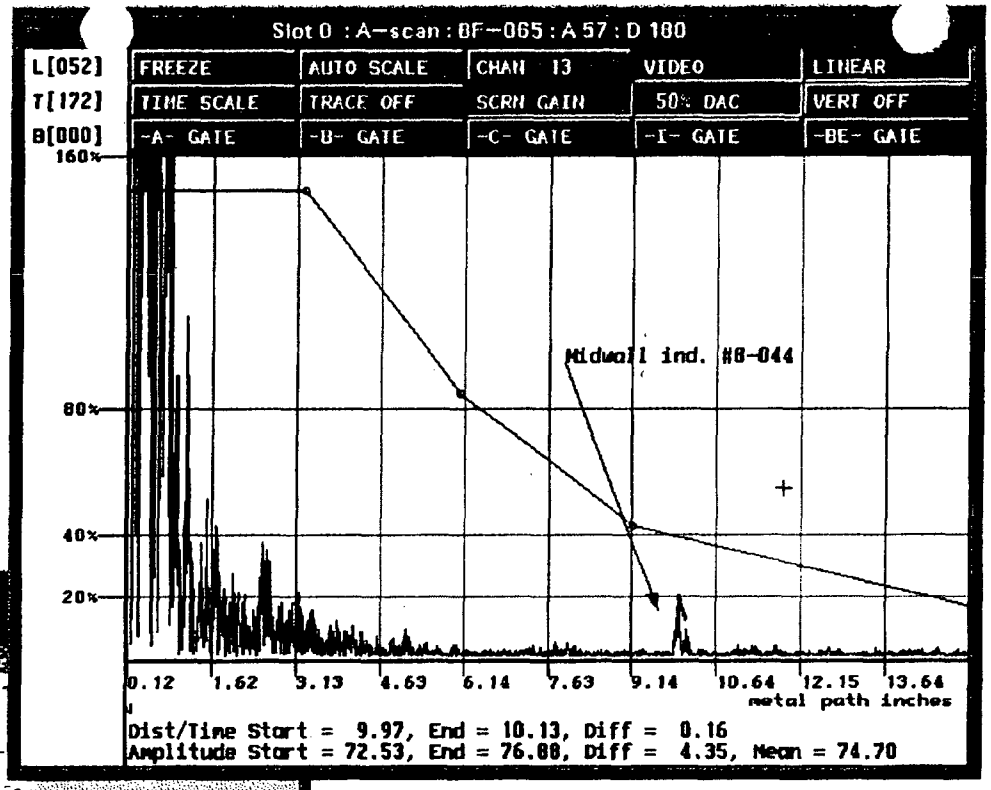


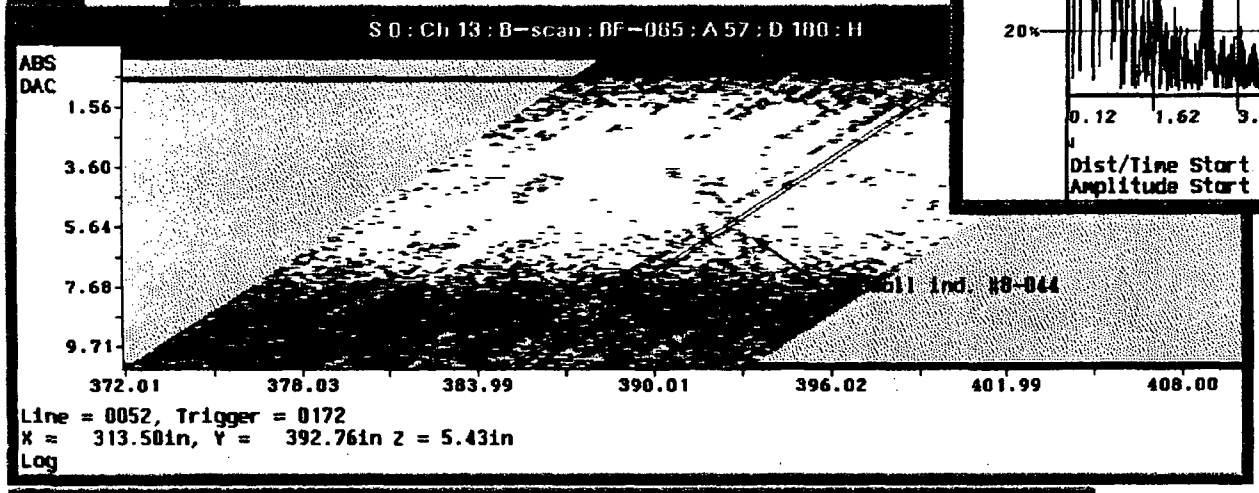


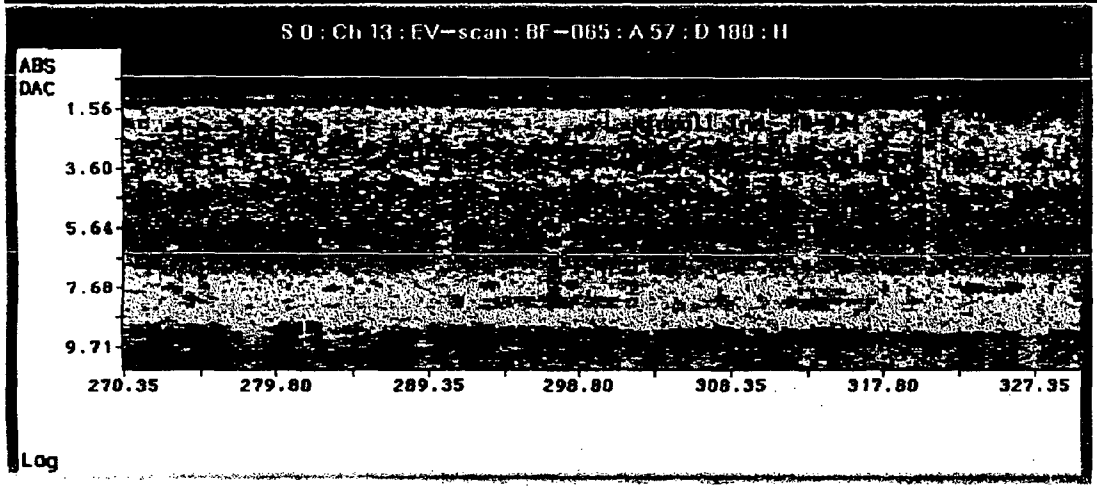
R 1154
214 OF 276
: 00214

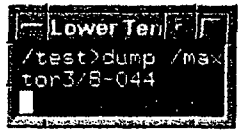




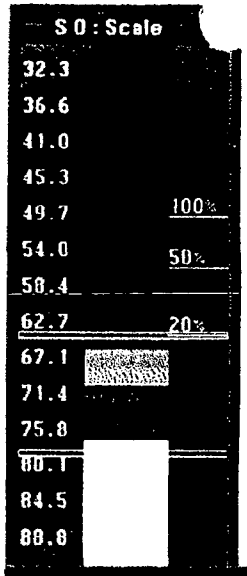


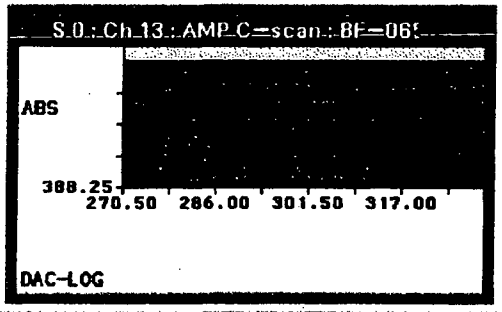


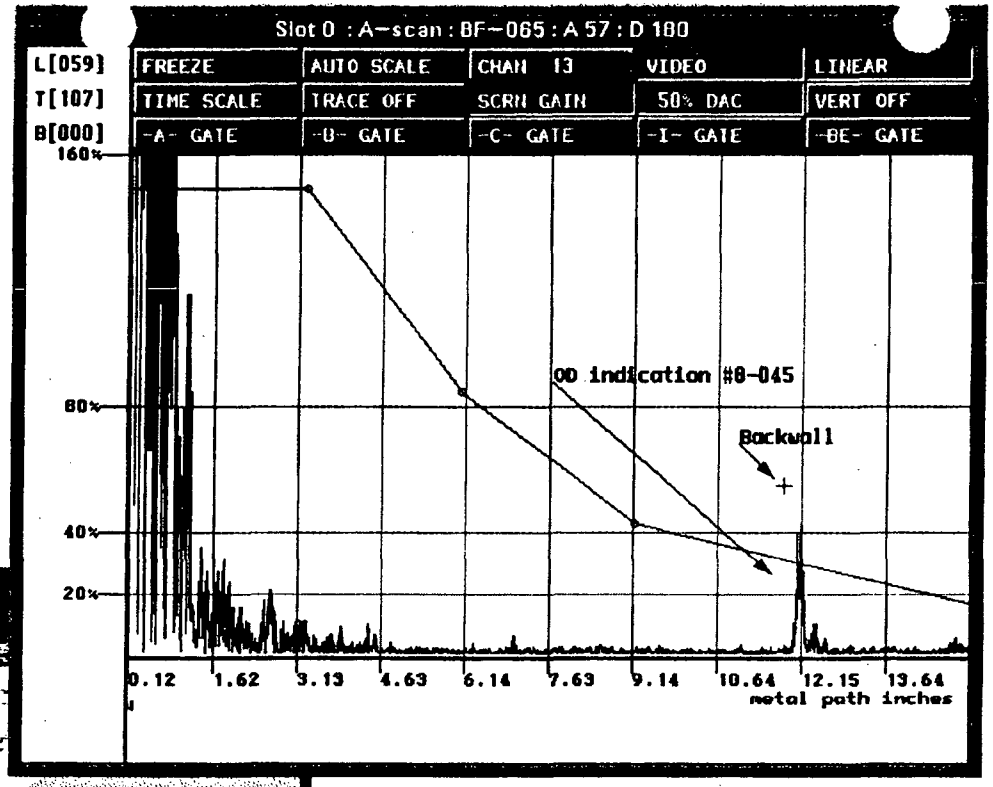


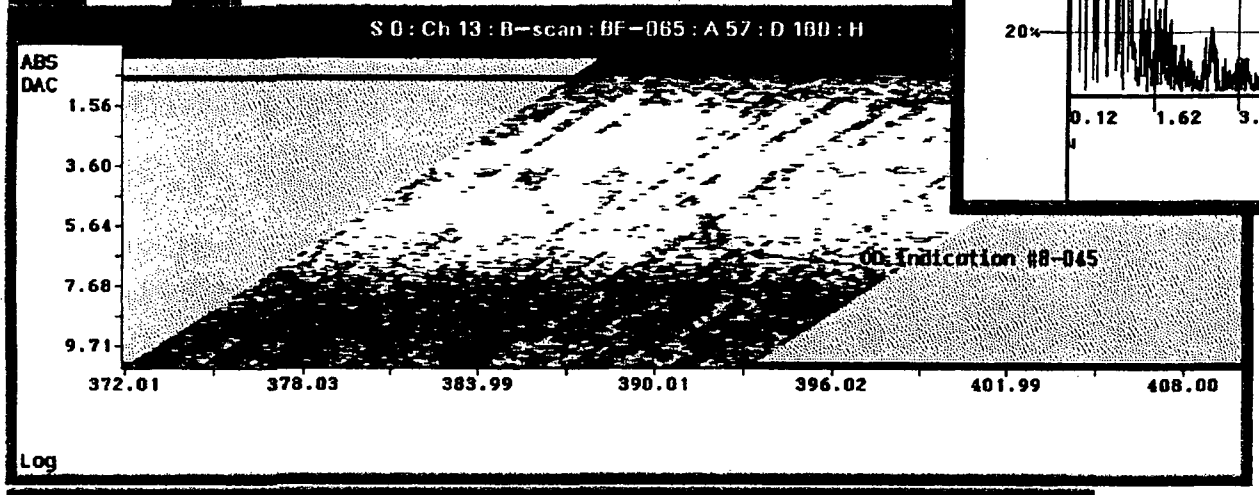


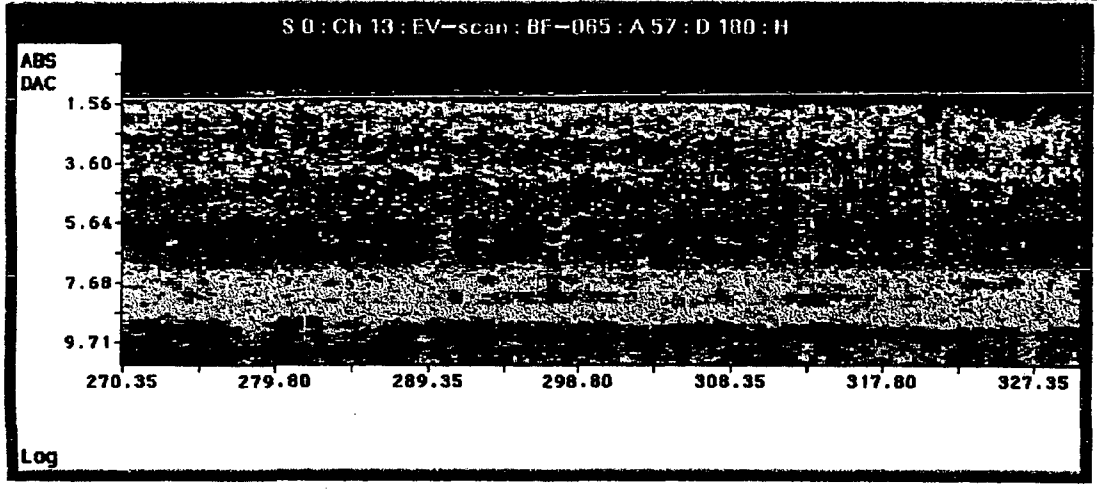
R1154
215 OF 276
* 00215





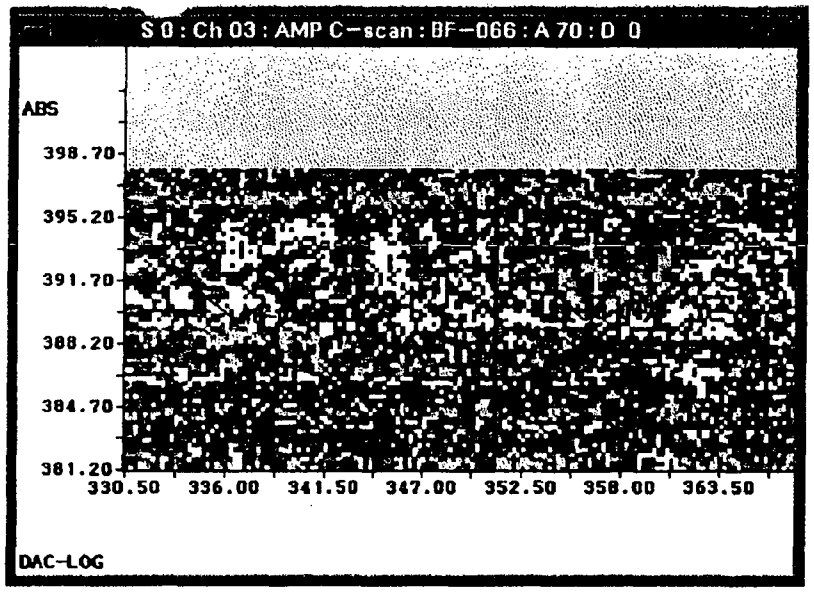


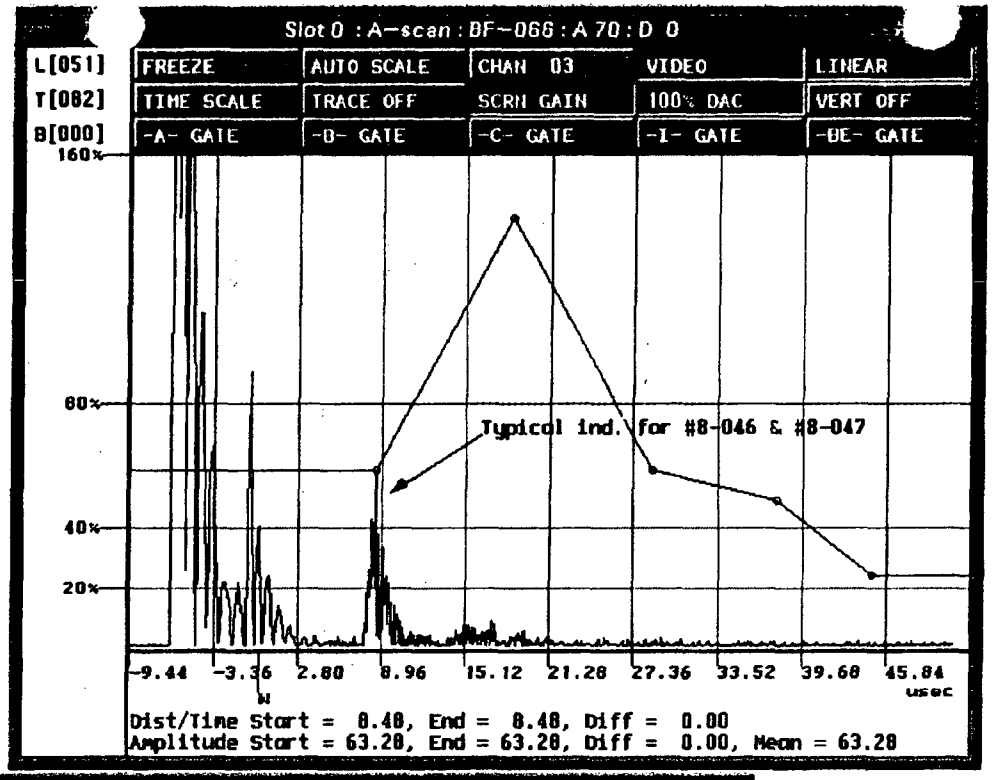


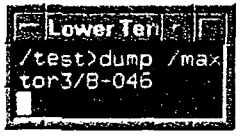


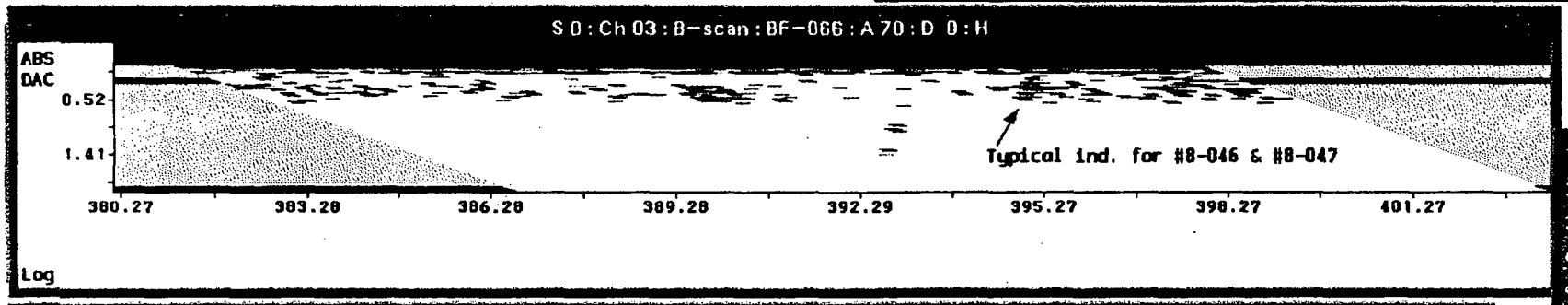
00216

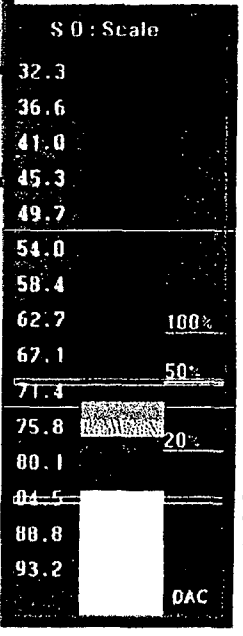
R1154
216 of 276

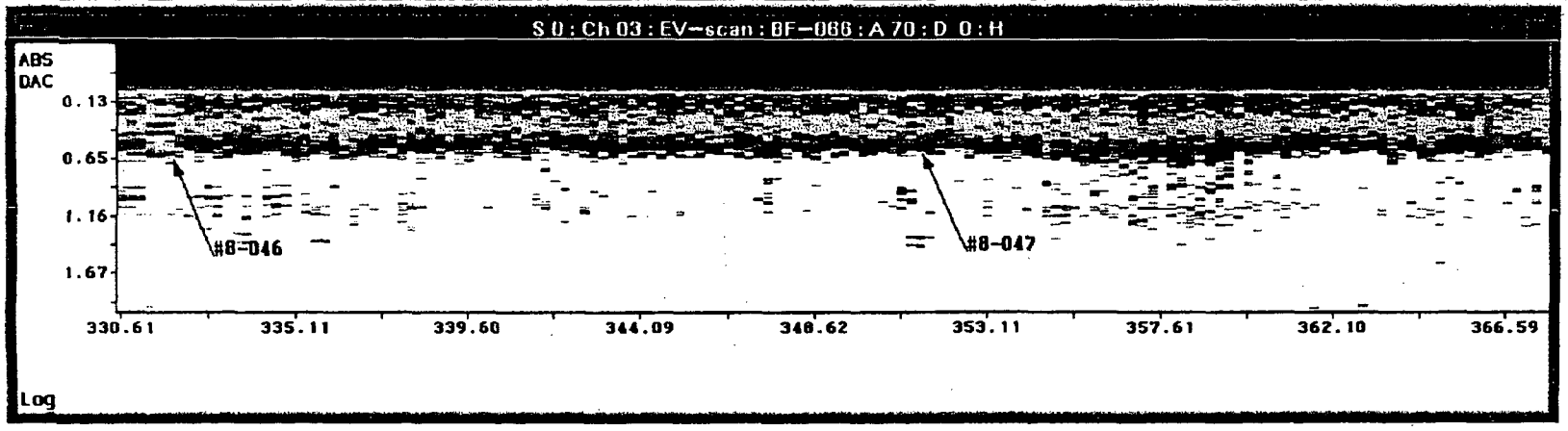




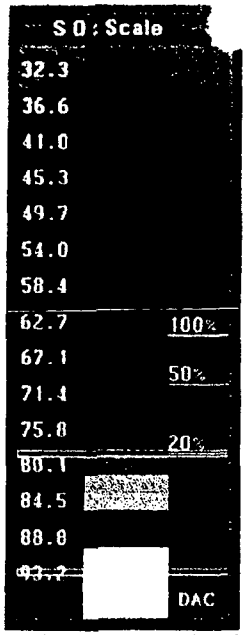


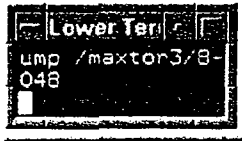


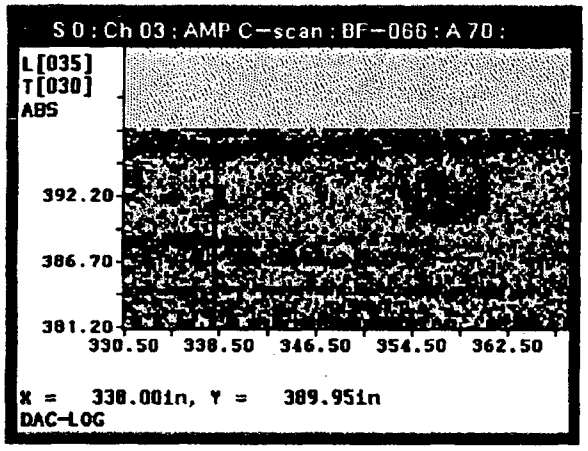


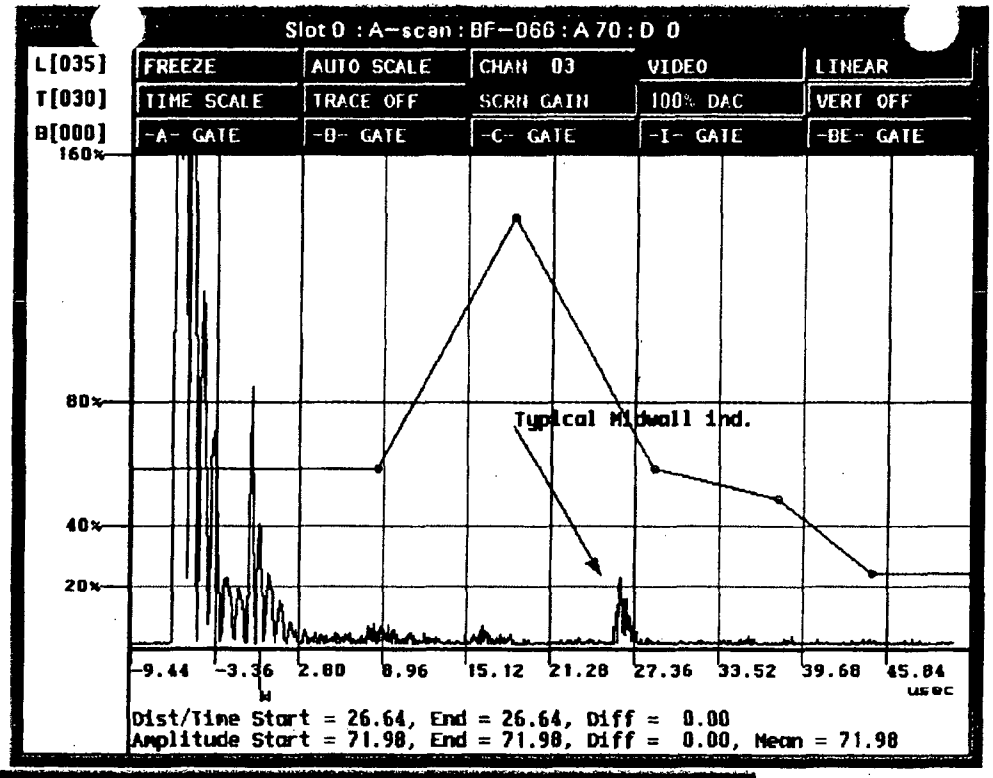


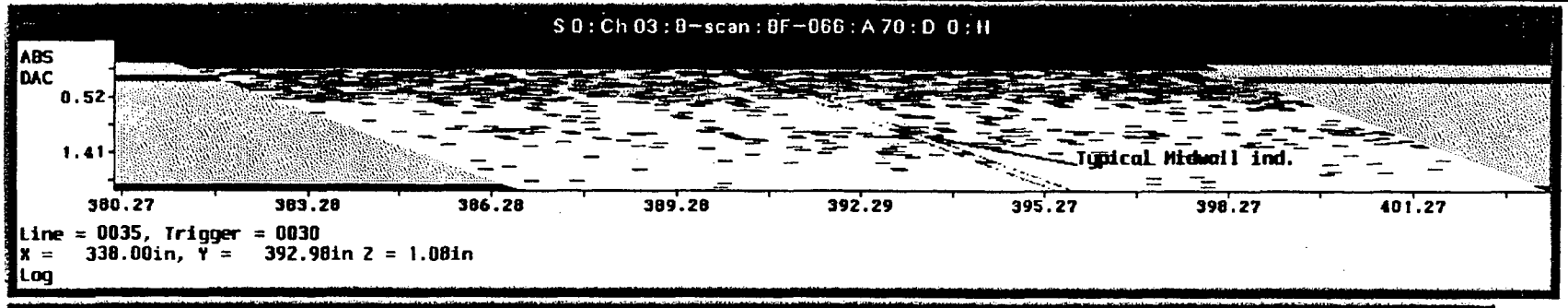
R 11154
217 OF 276
00217

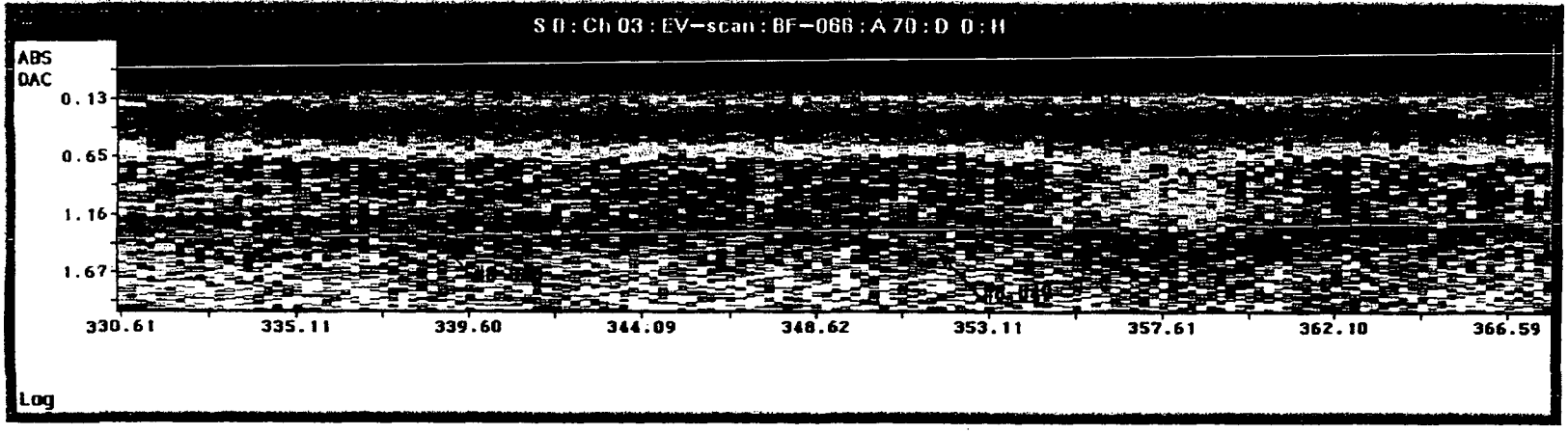




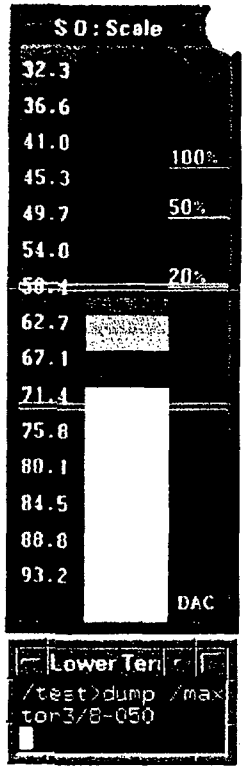


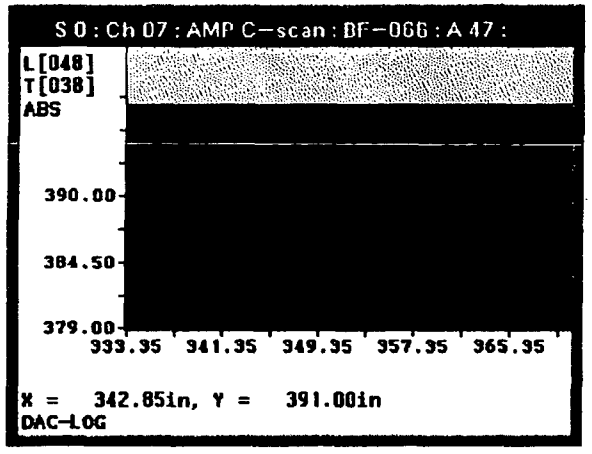


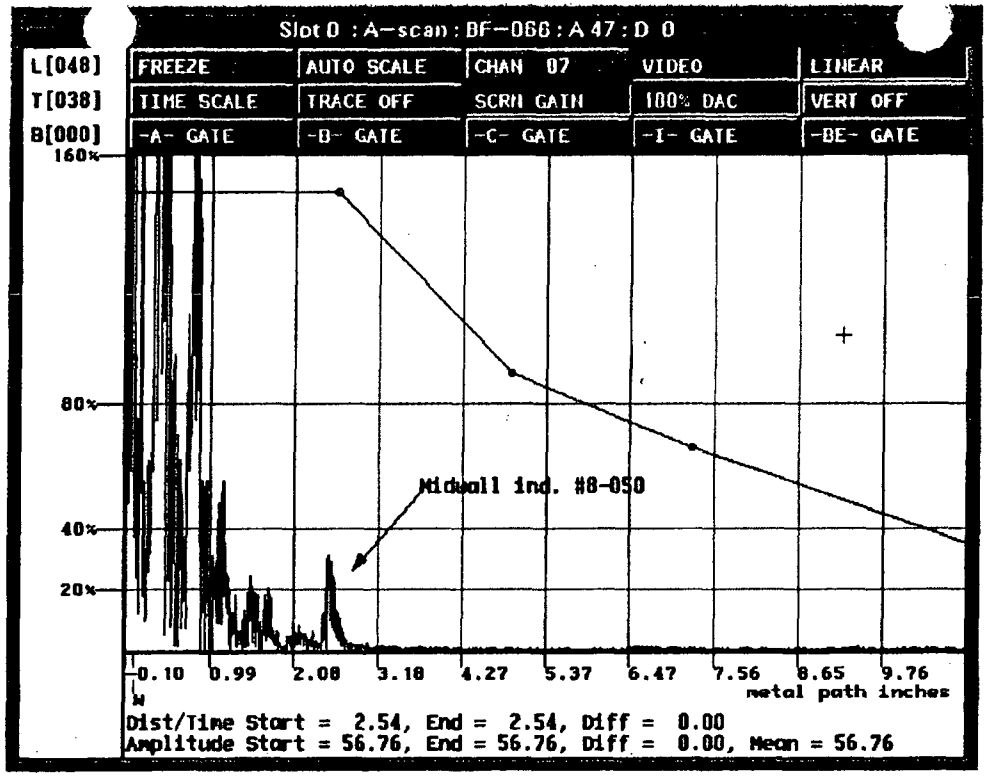


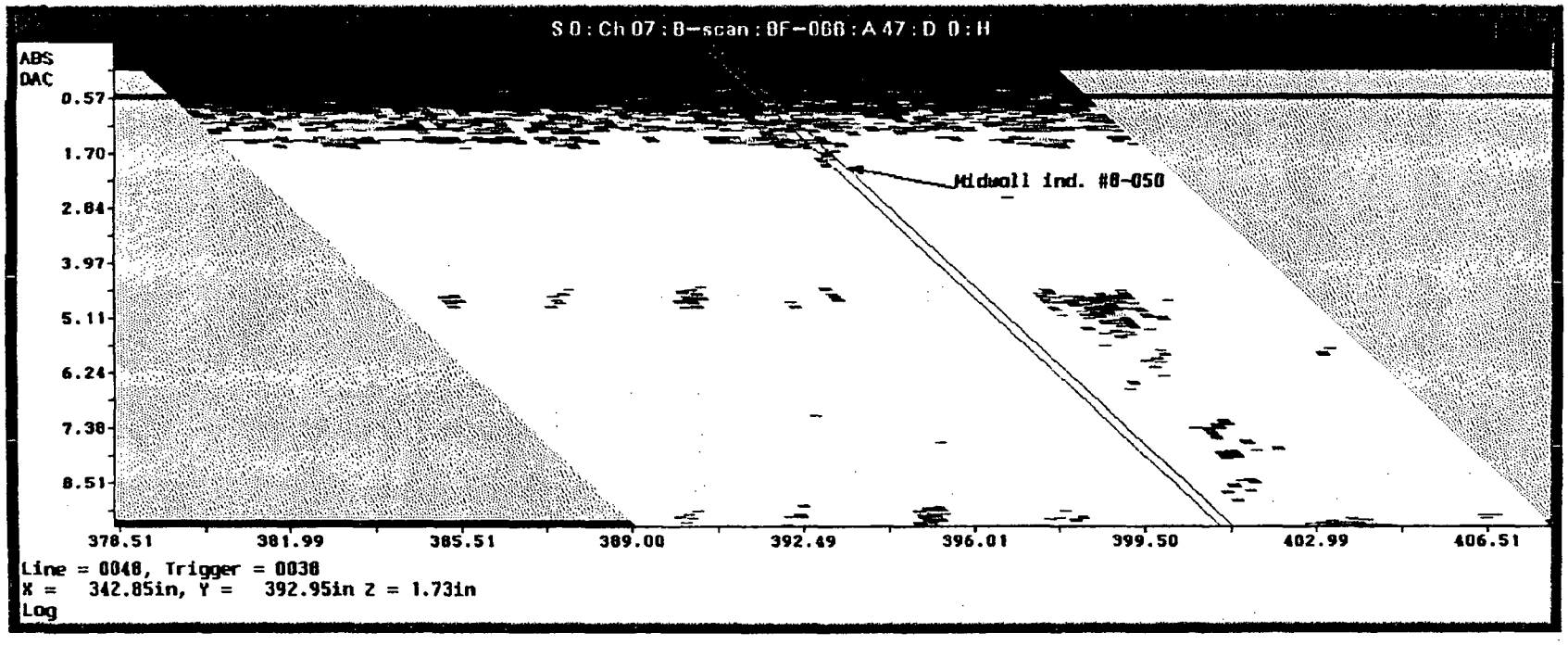


R 1154
216 OF 276
00218

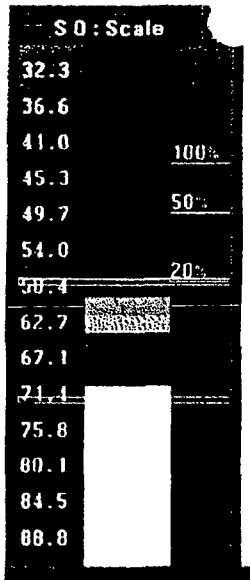


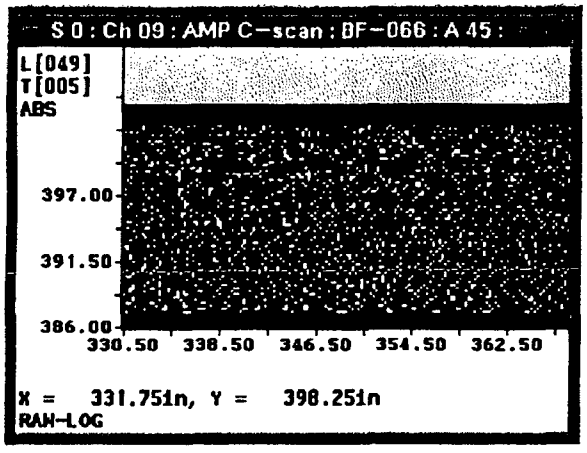


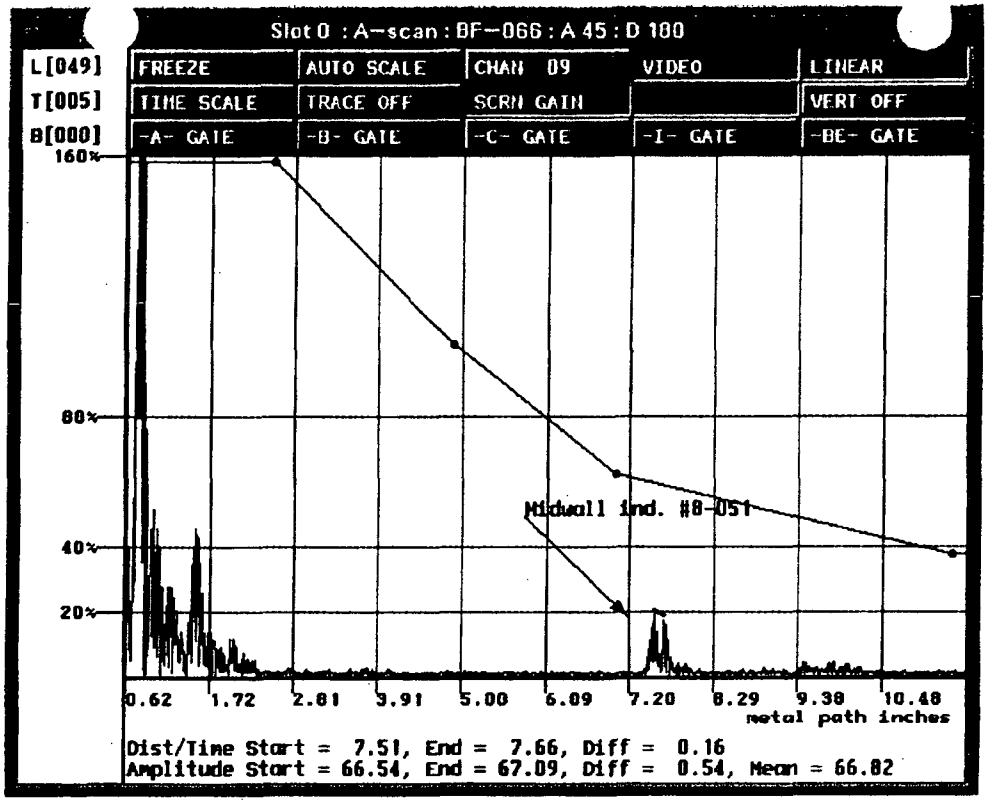


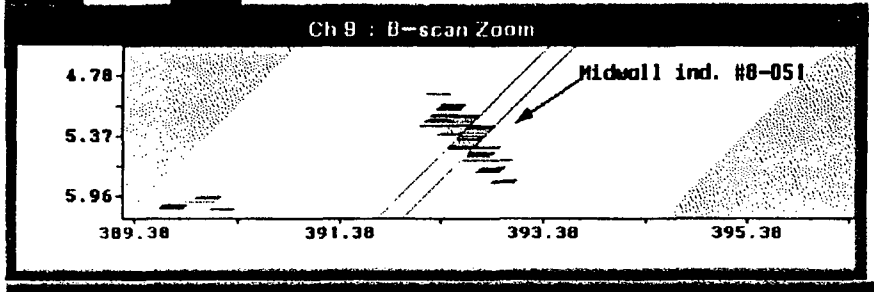


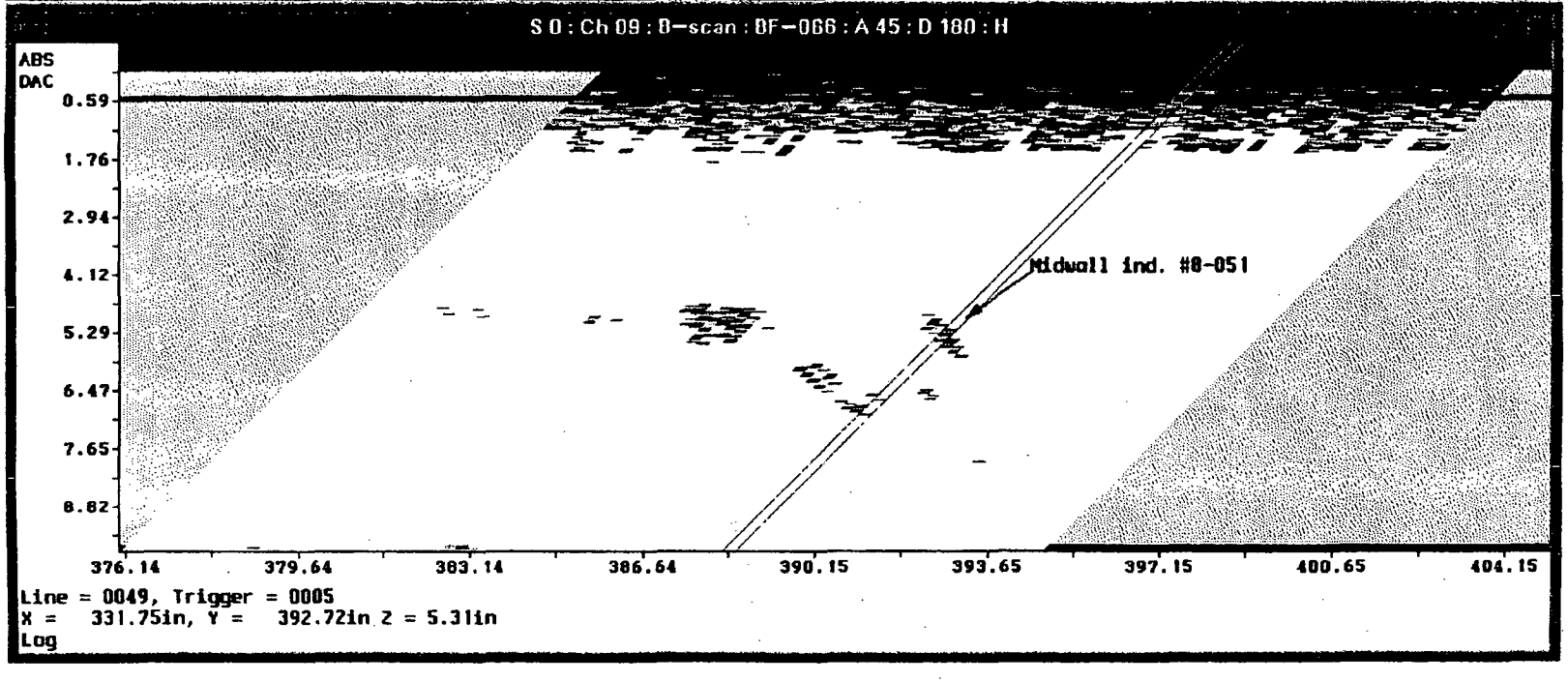
R 1154
219 OF 276
00219

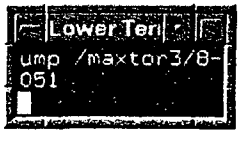




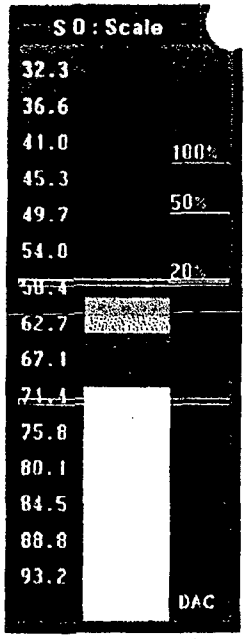


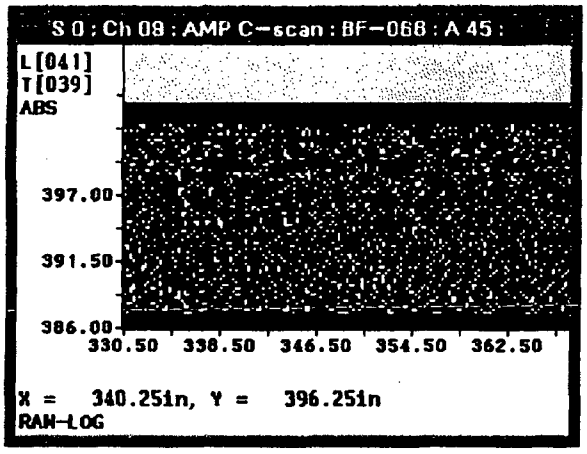


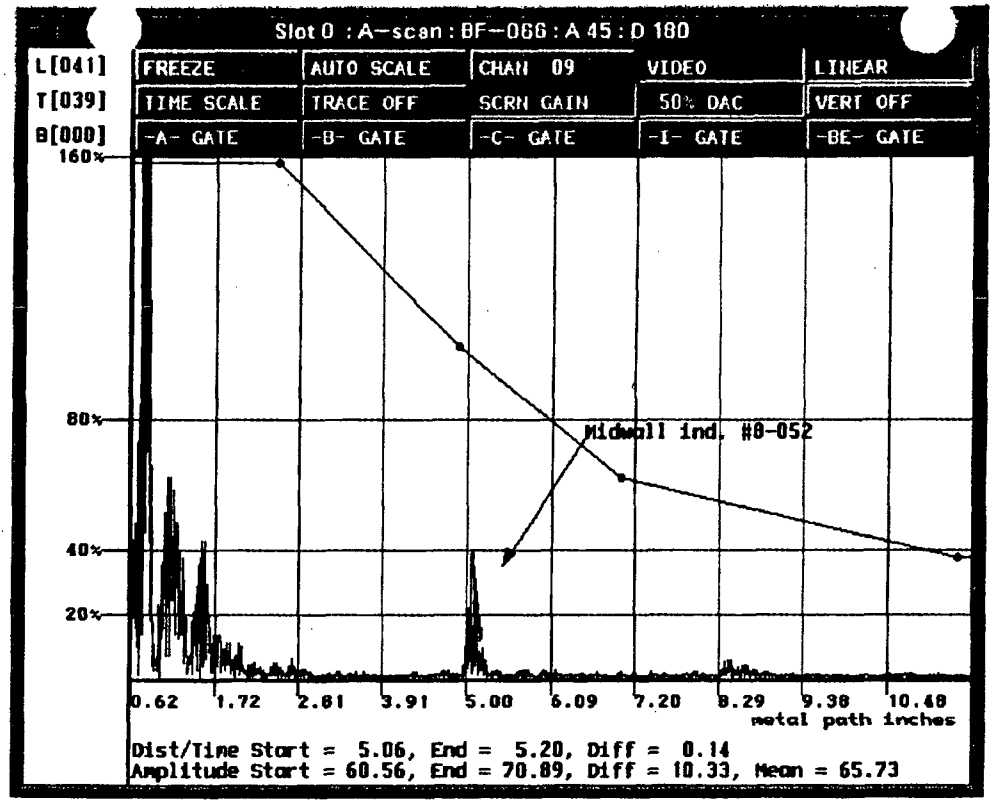


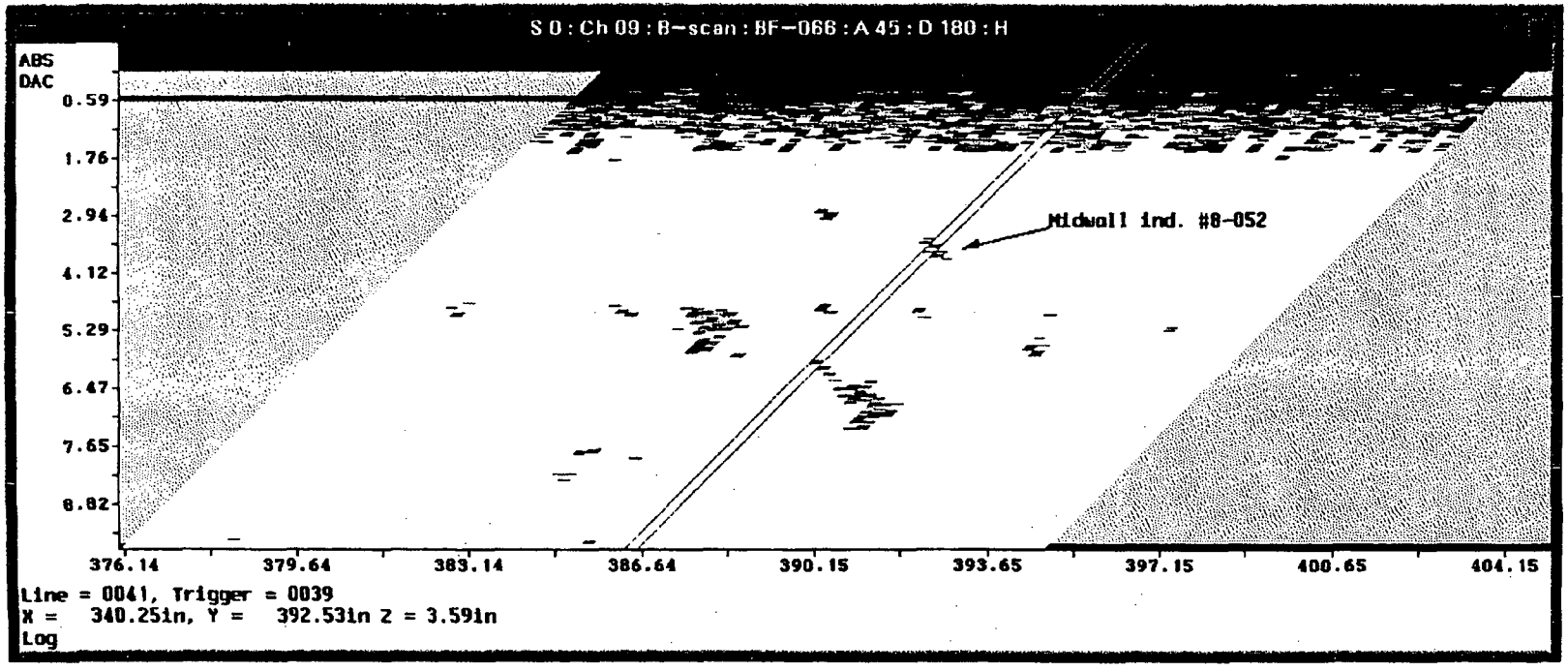


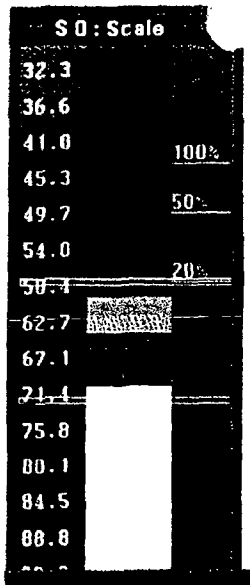
R1154
220 OF 276
00220

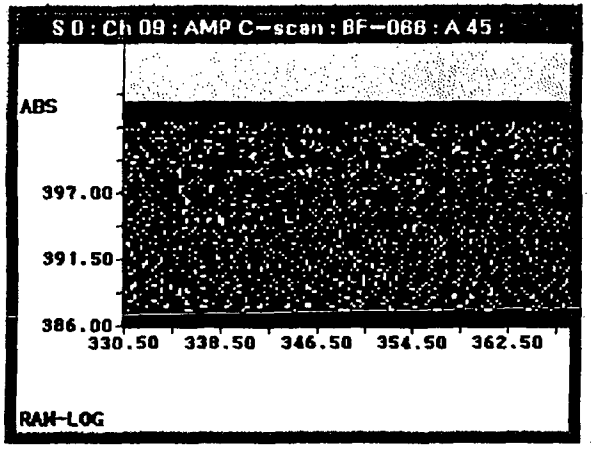


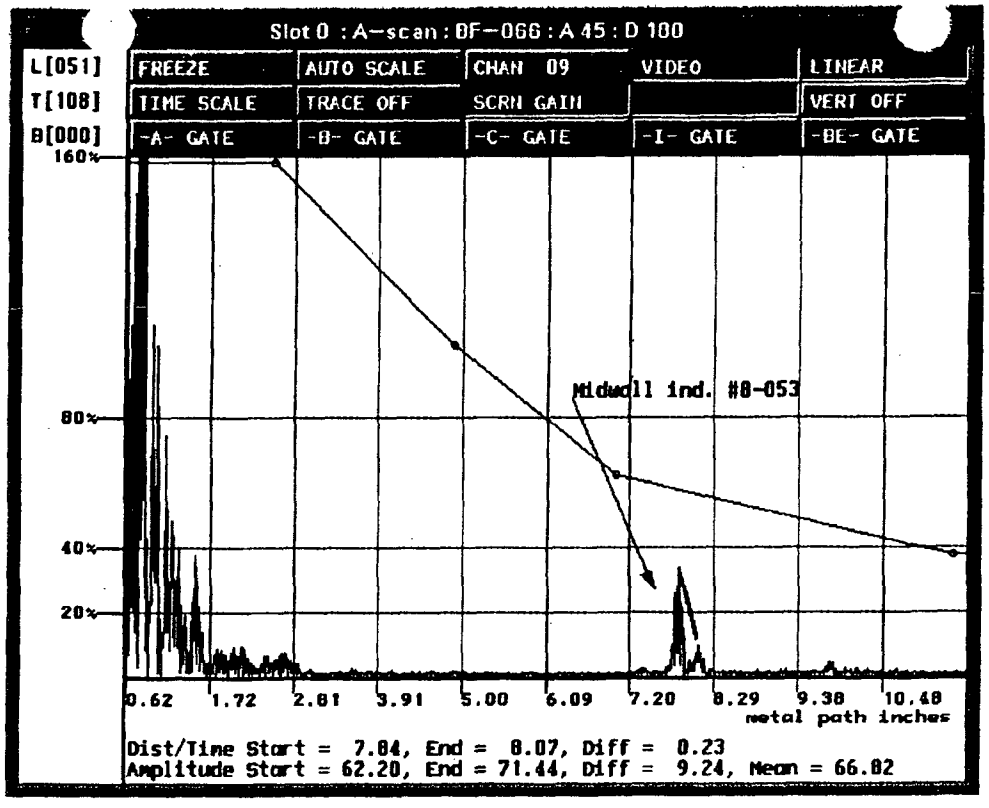


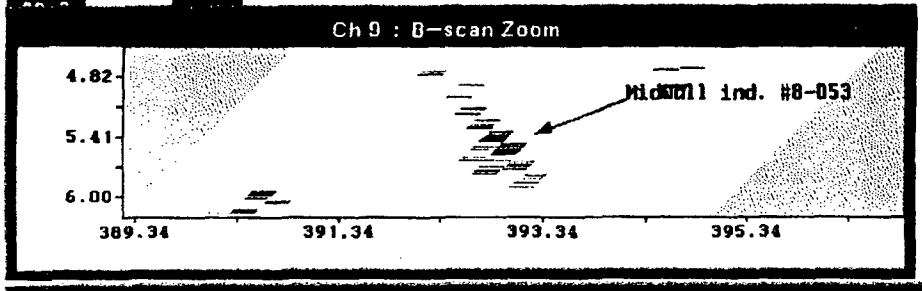


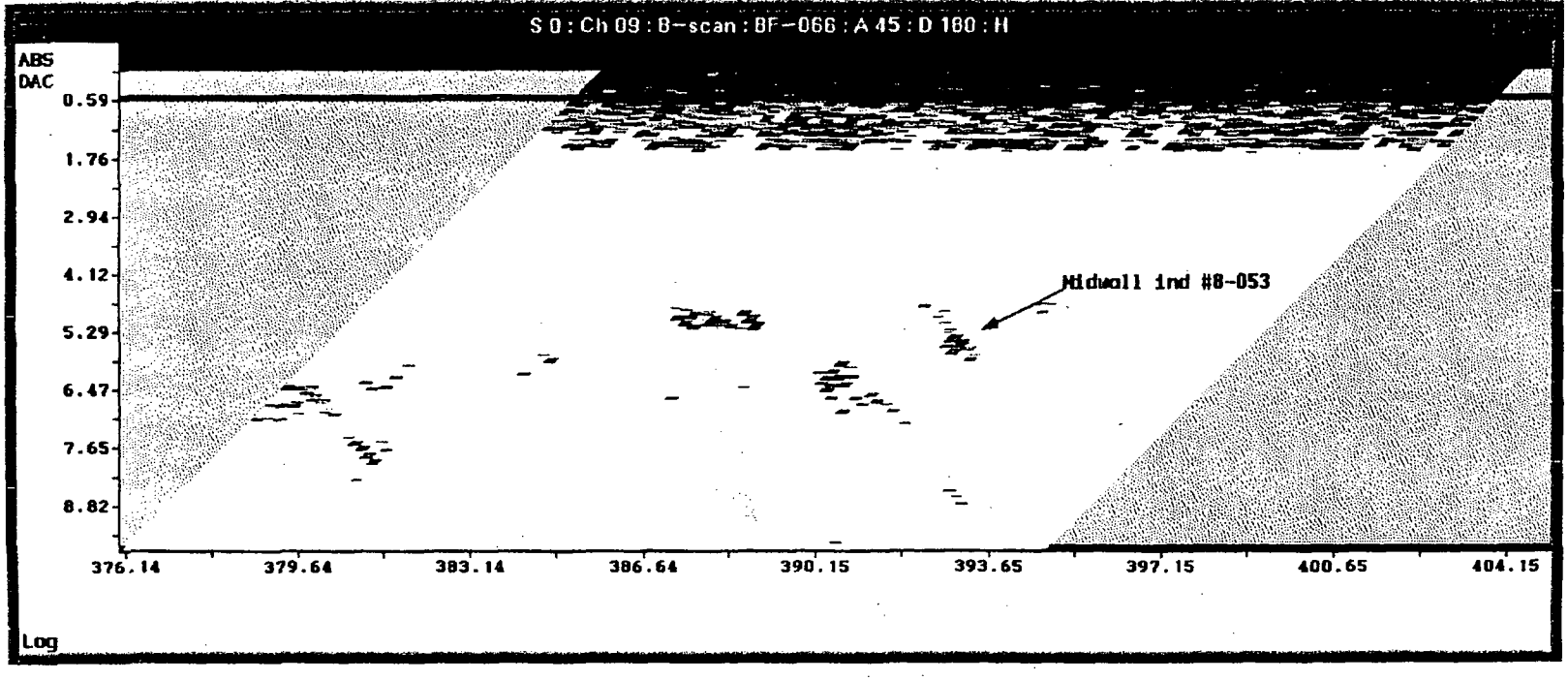


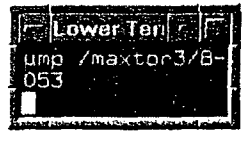




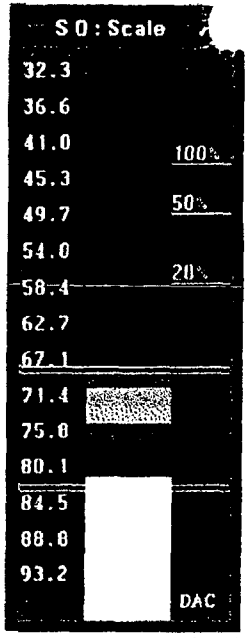


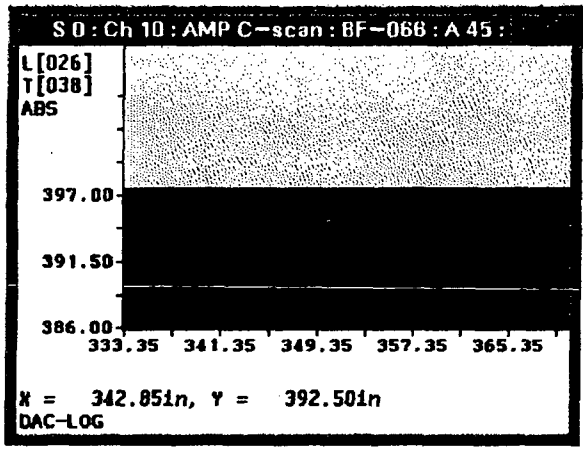


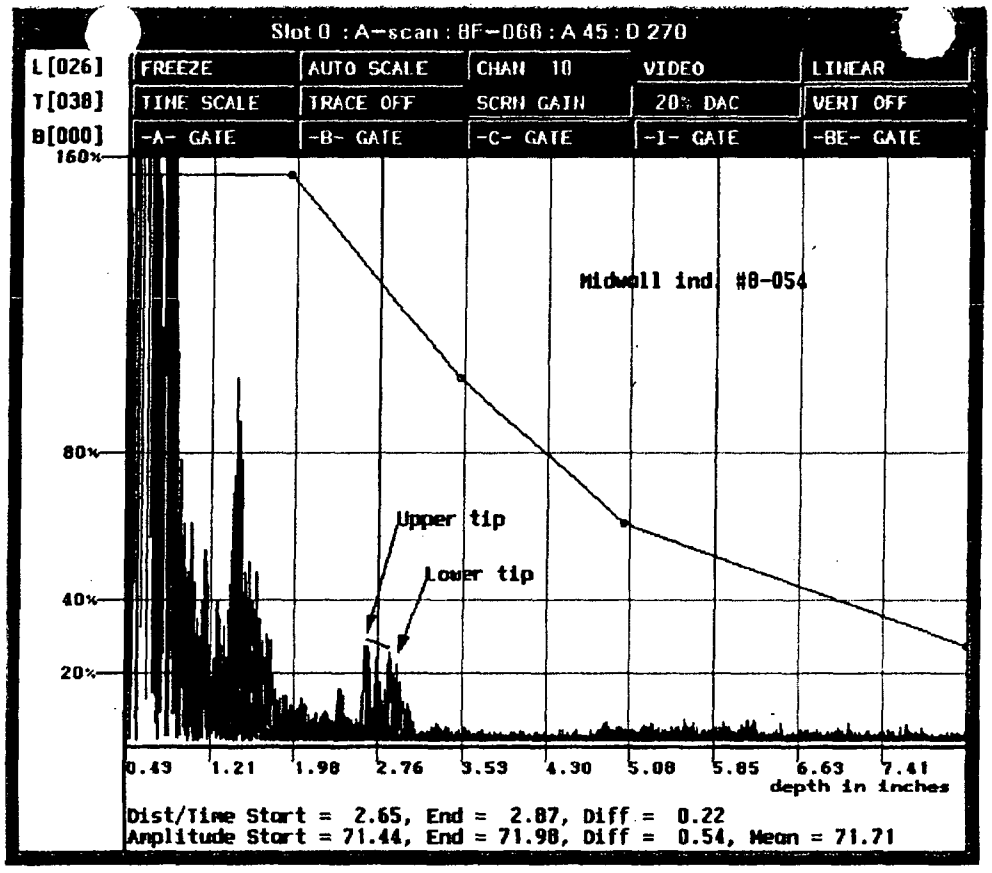


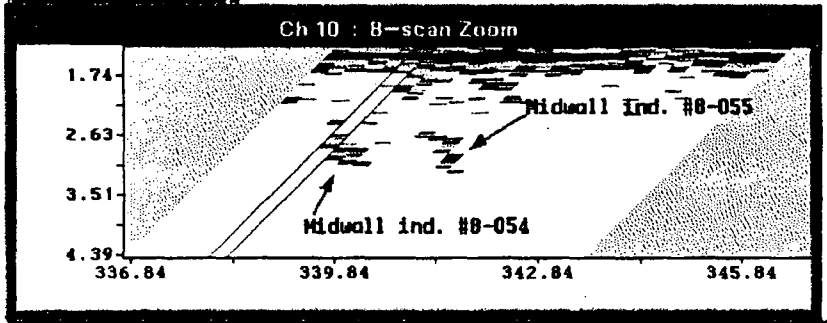


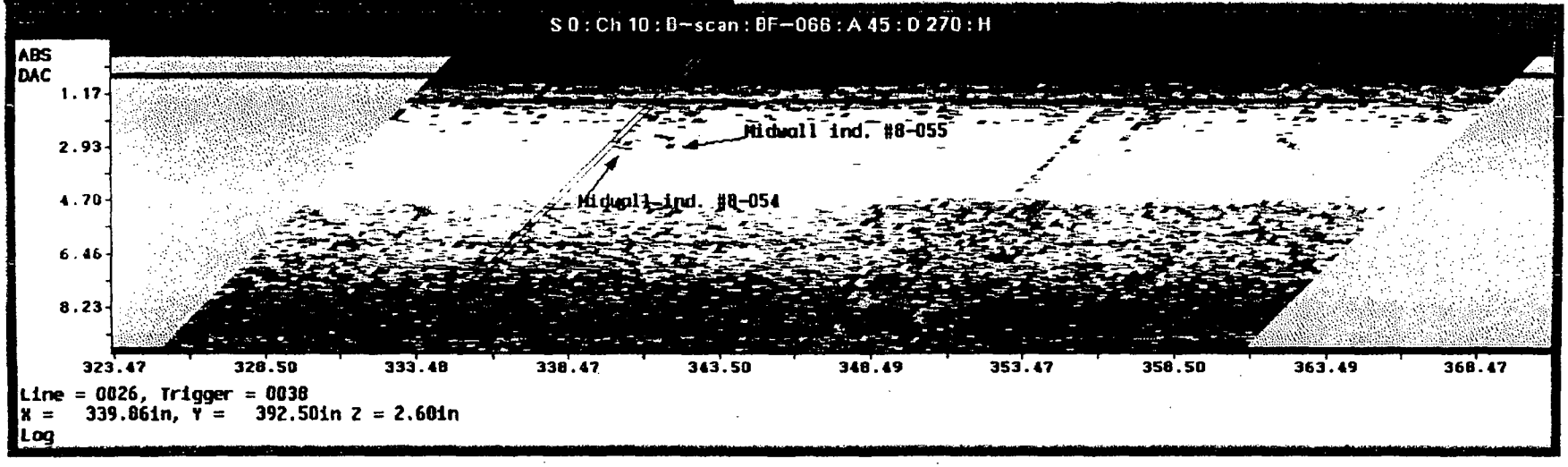
R 1154
222 OF 276
00222

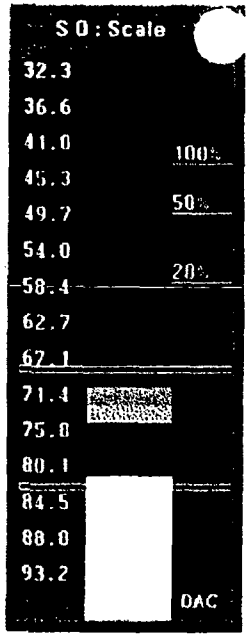


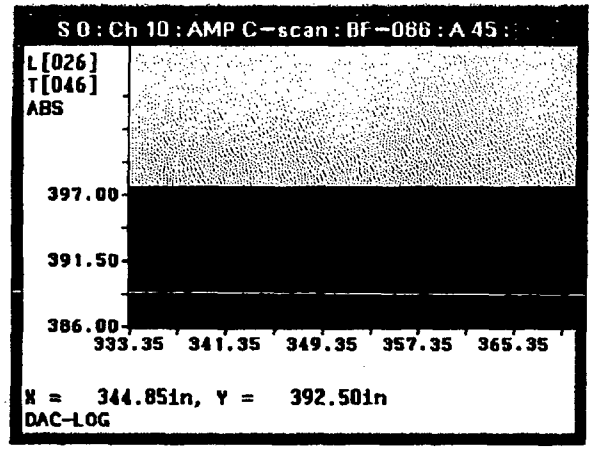


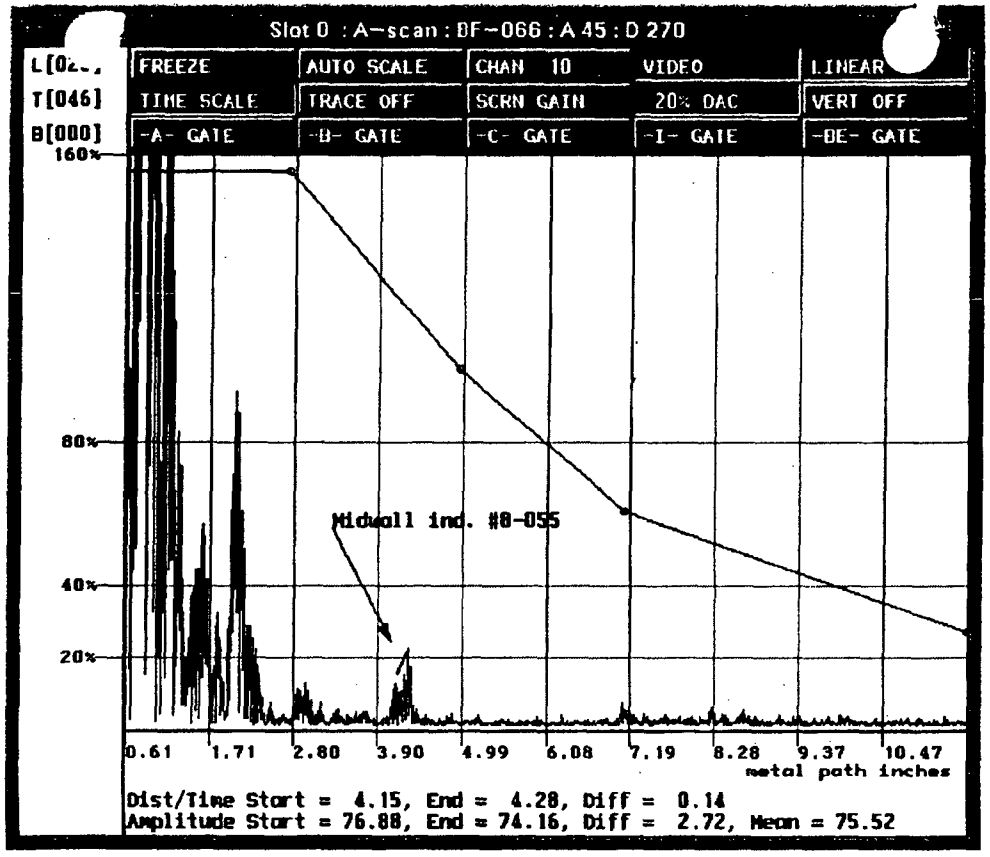


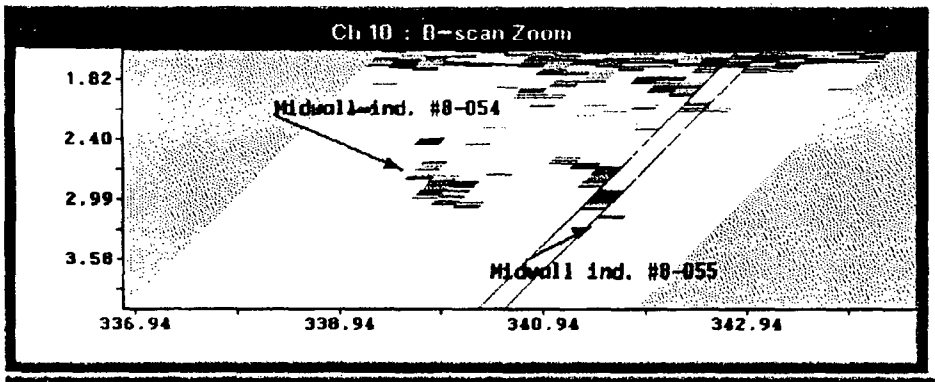


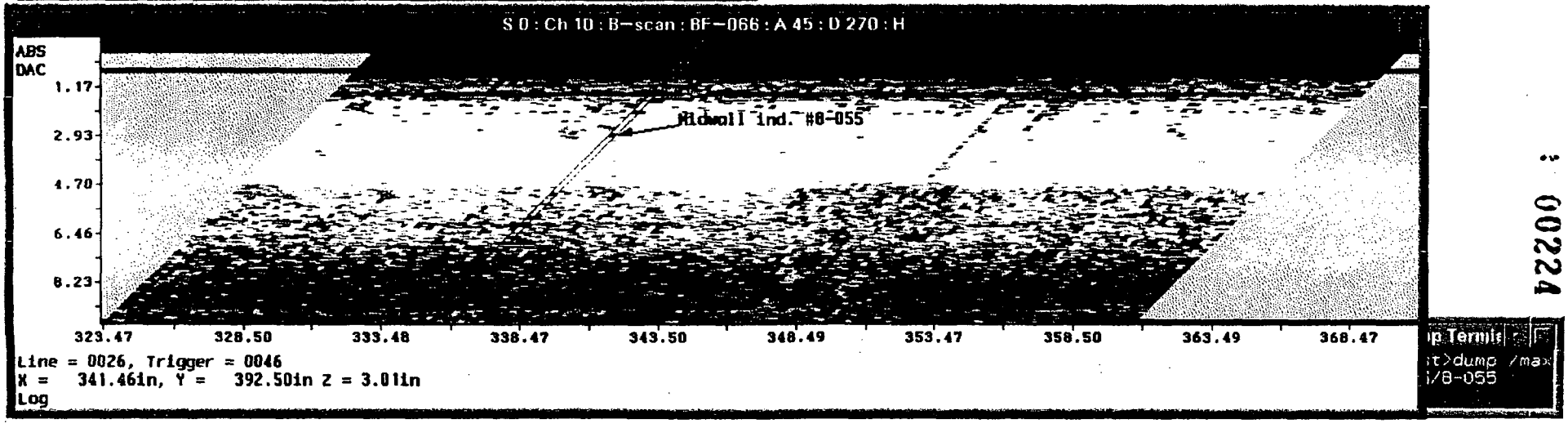






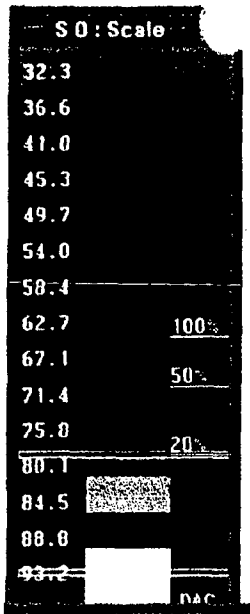


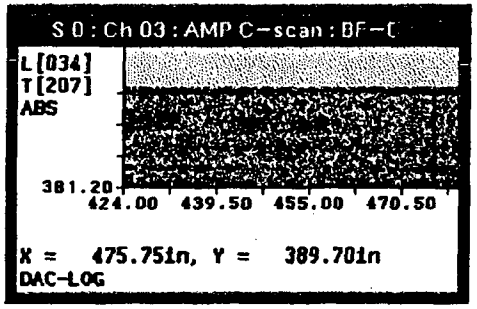


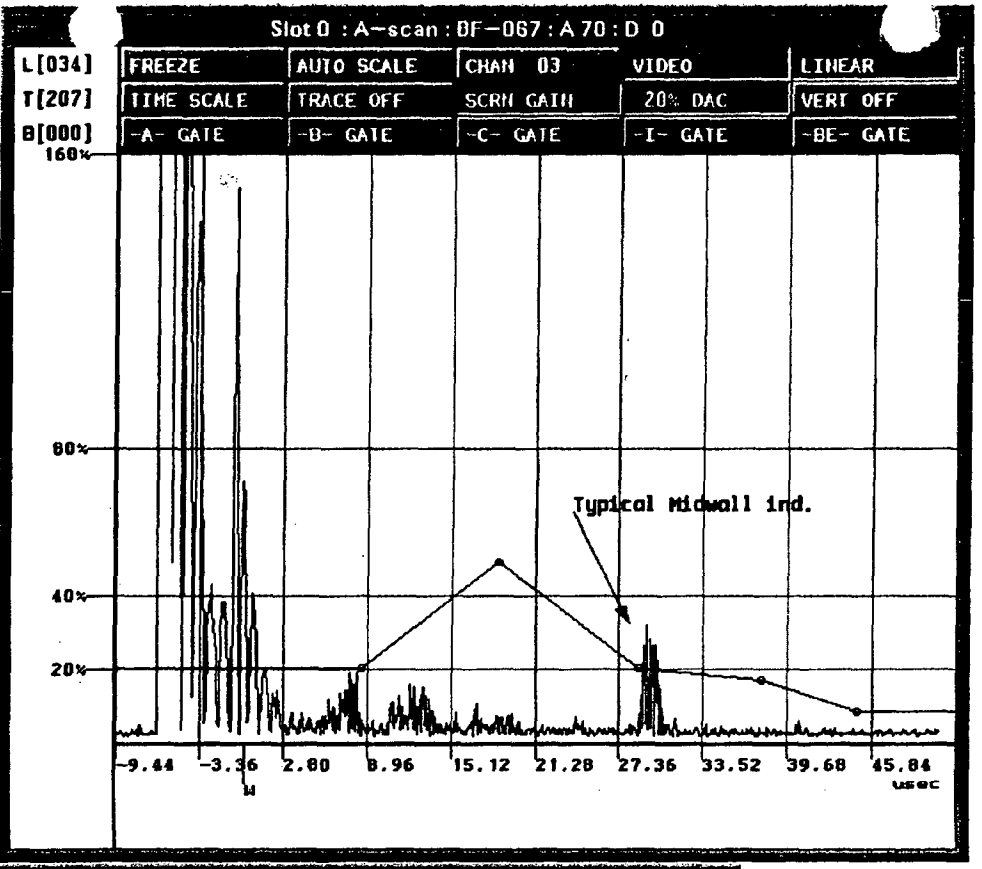


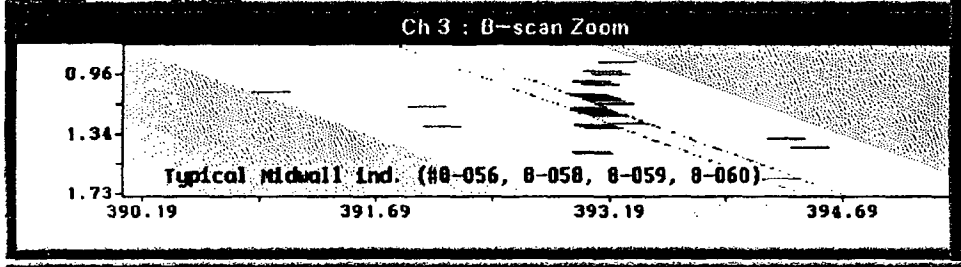
: 00224

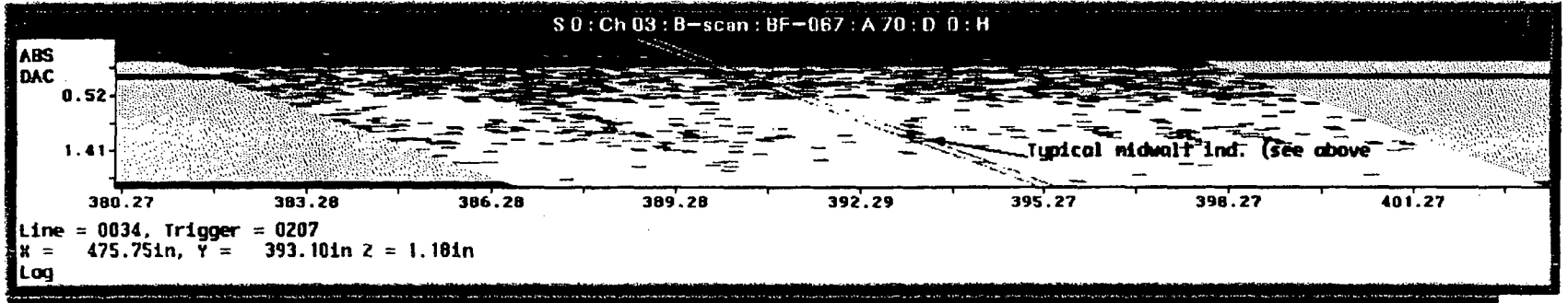
12 1154
224 of 276

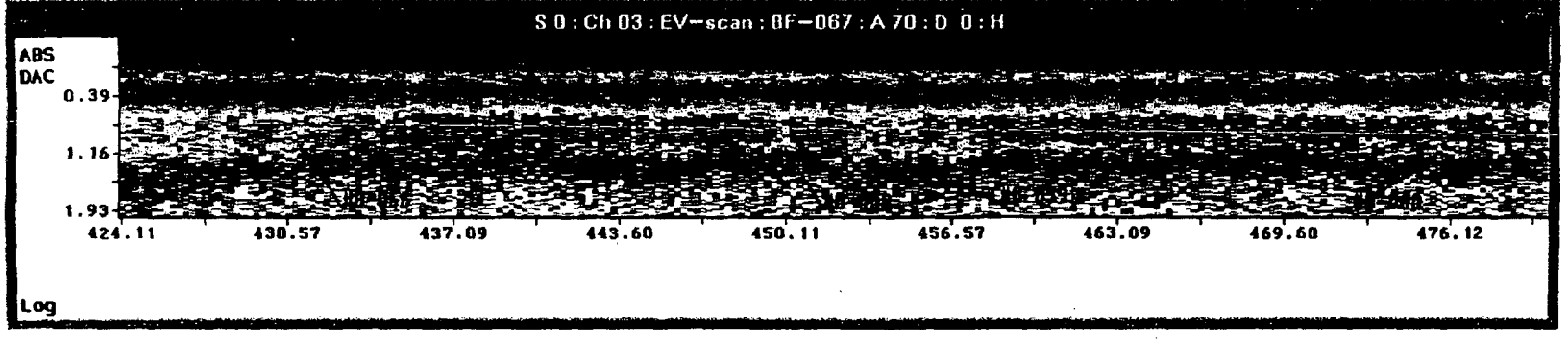


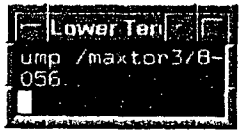


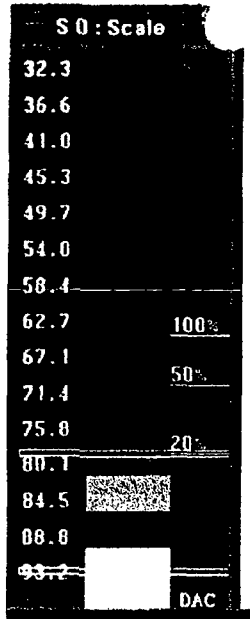


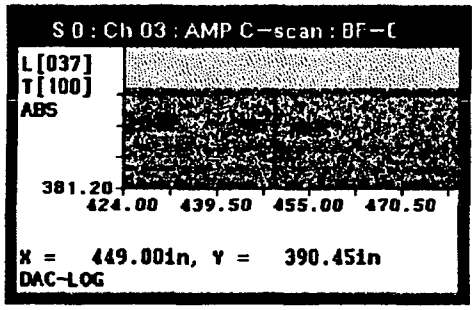


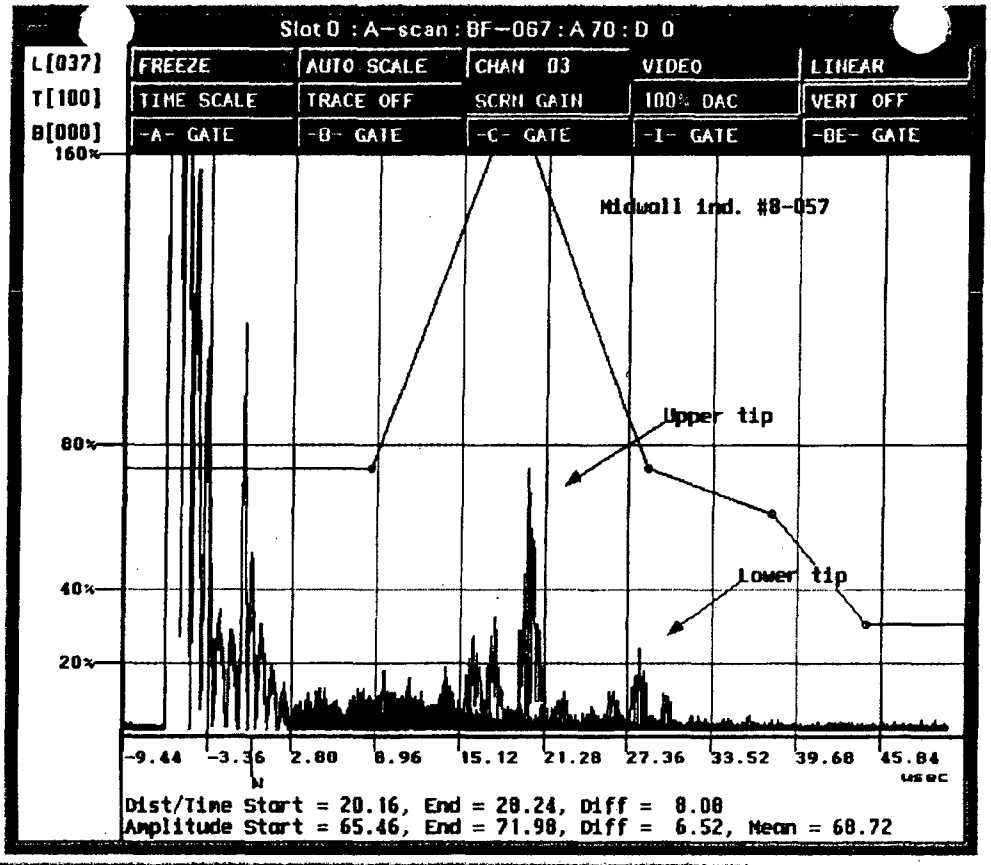


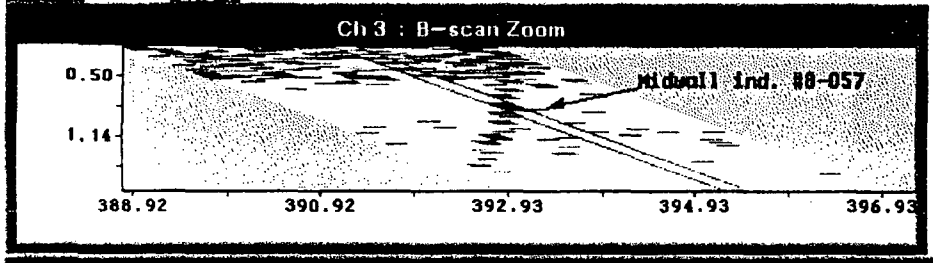


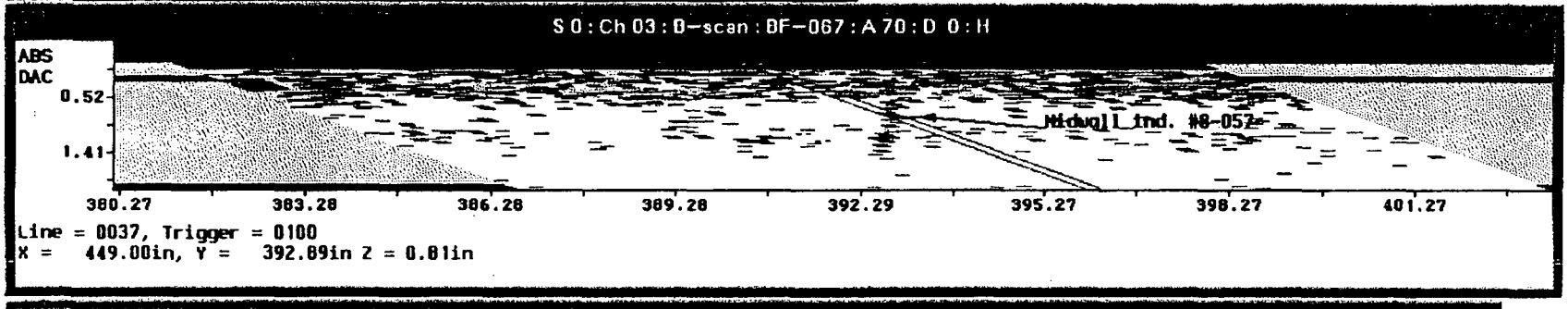


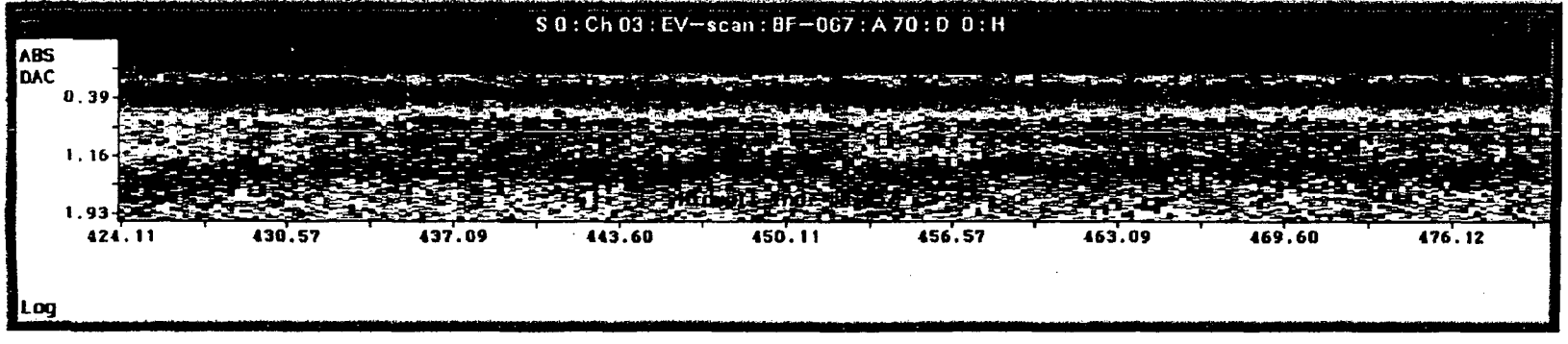




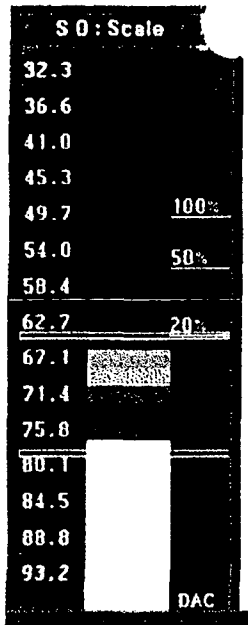


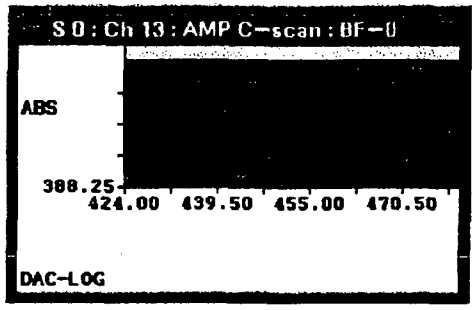


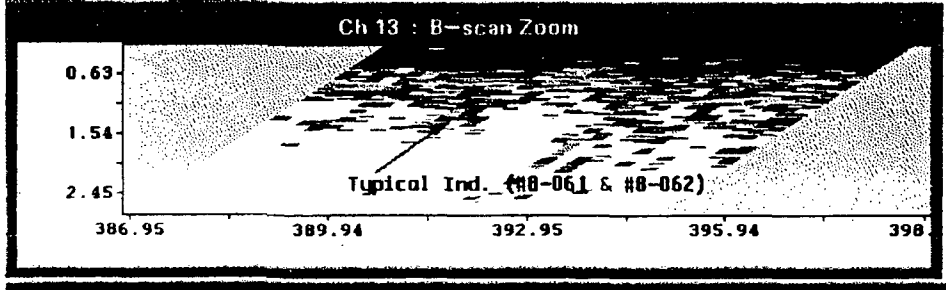


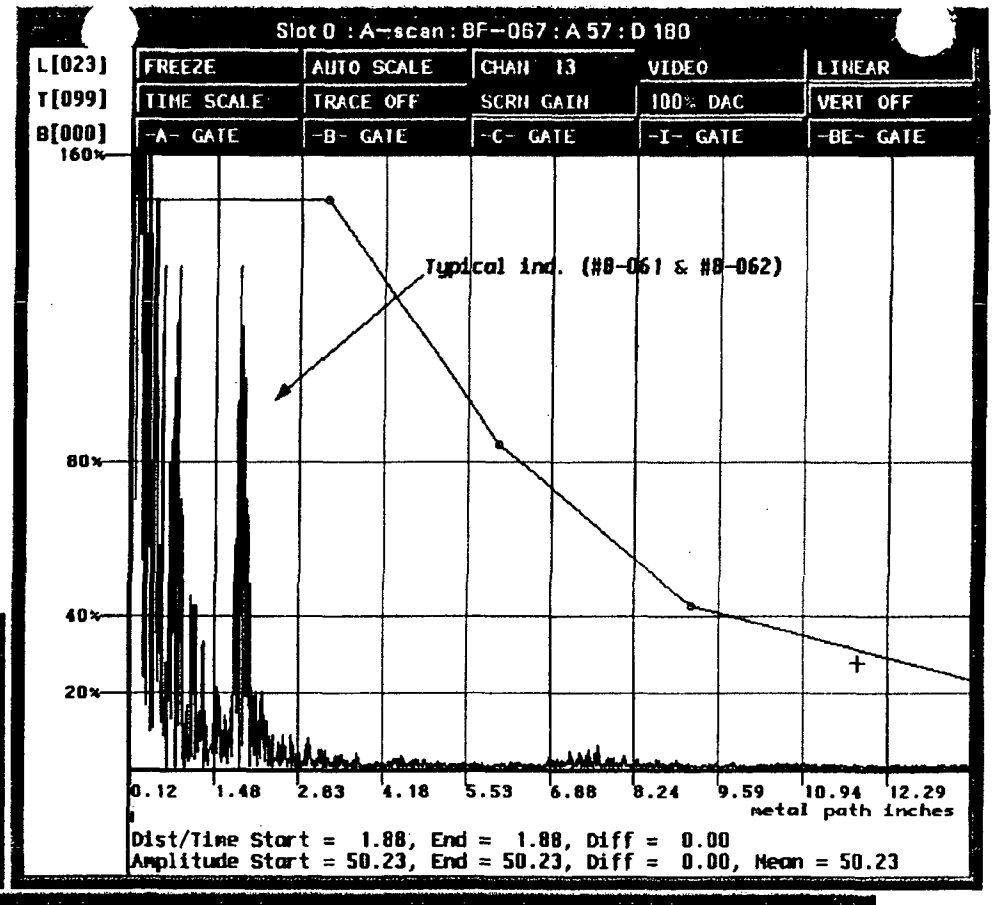


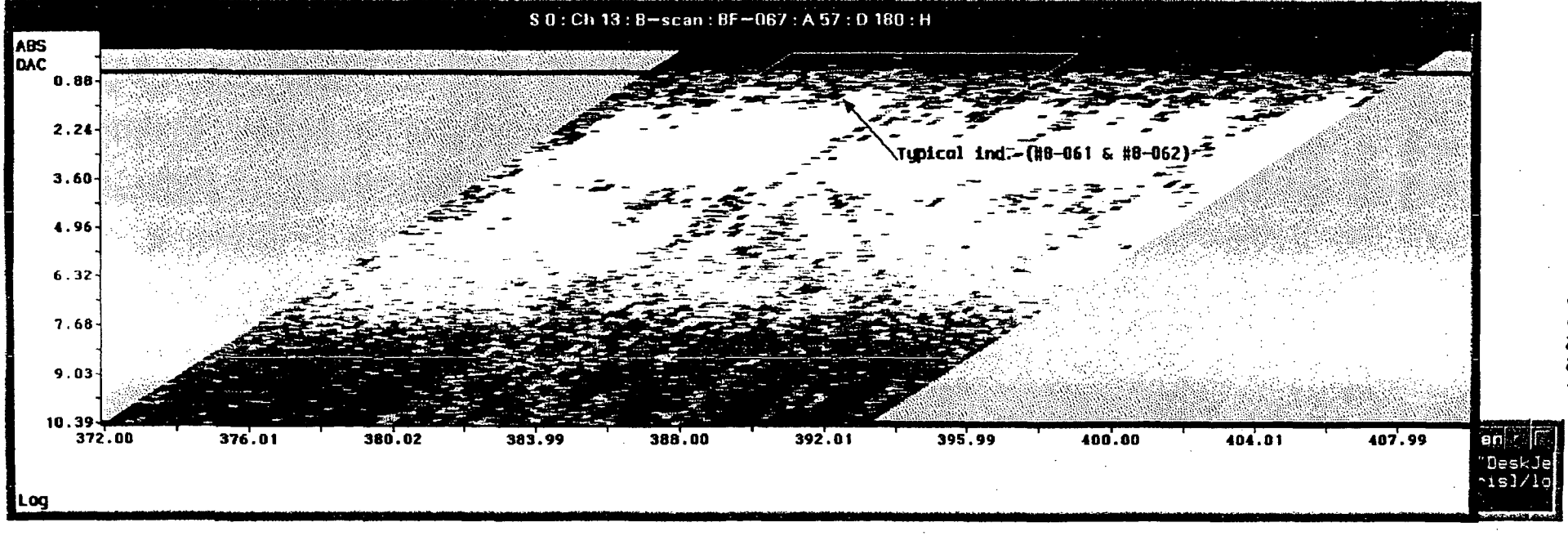
R1154
226 of 276
00226

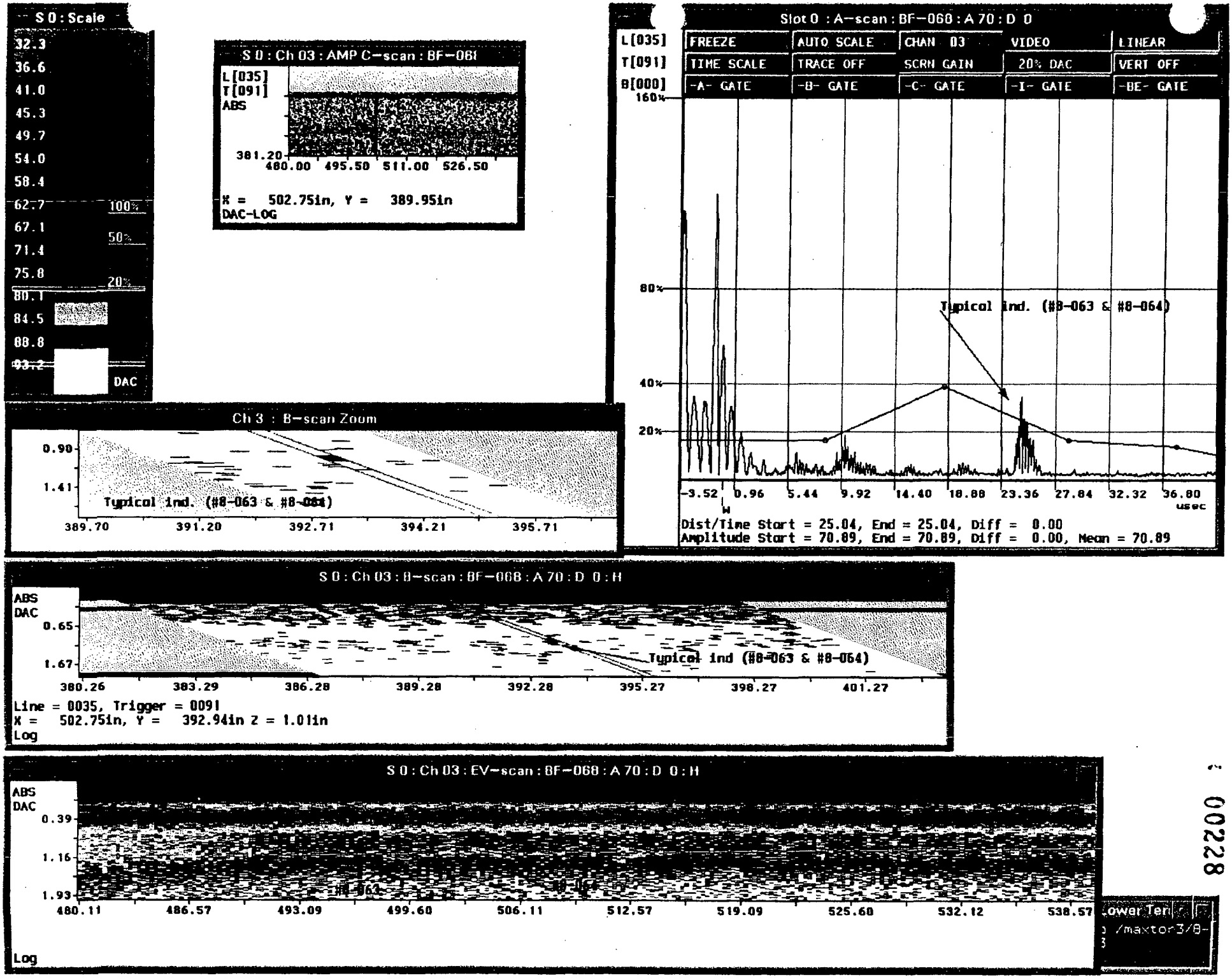


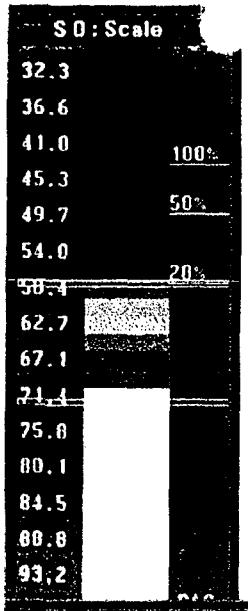


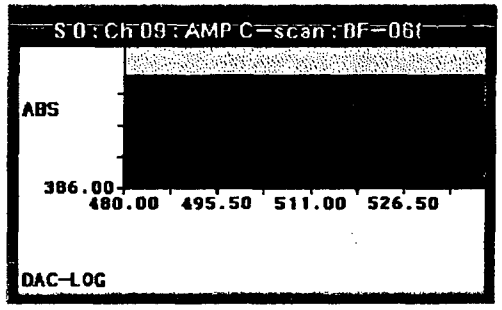


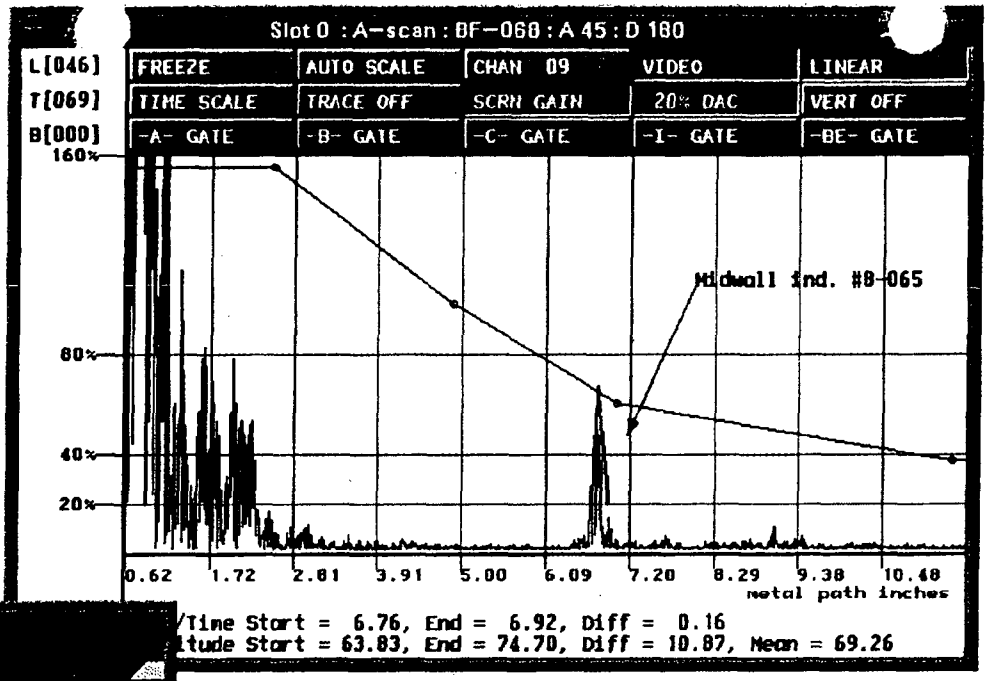


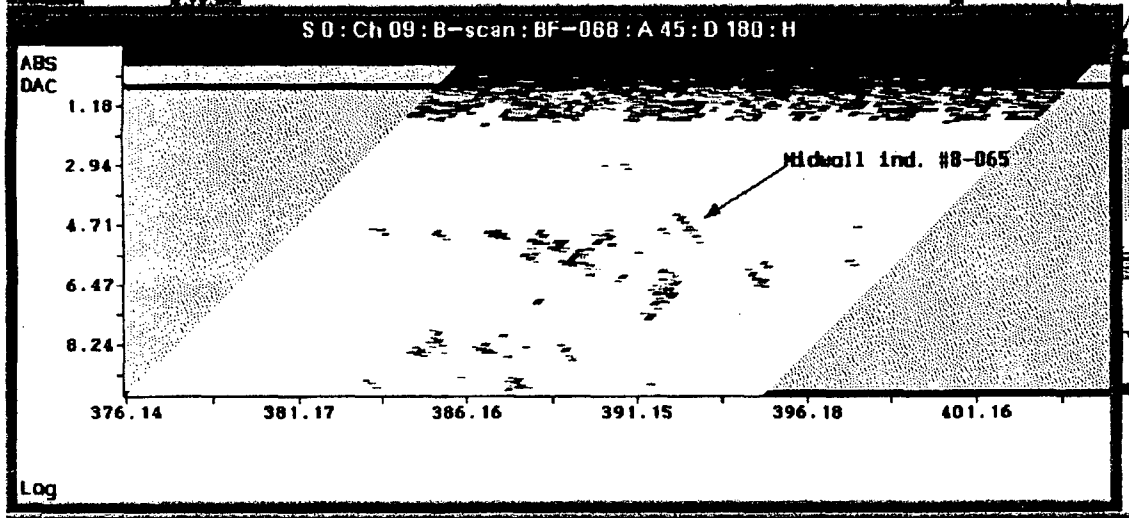


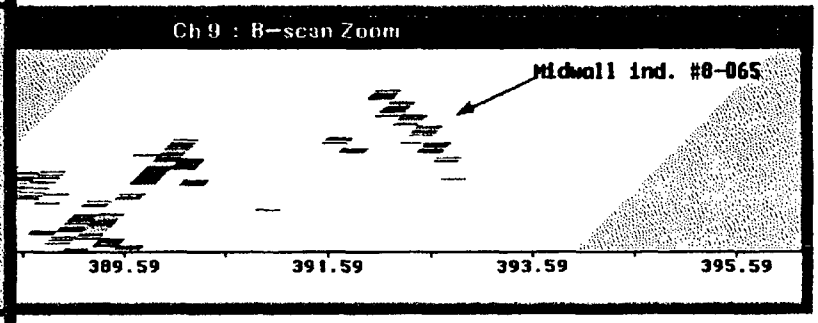


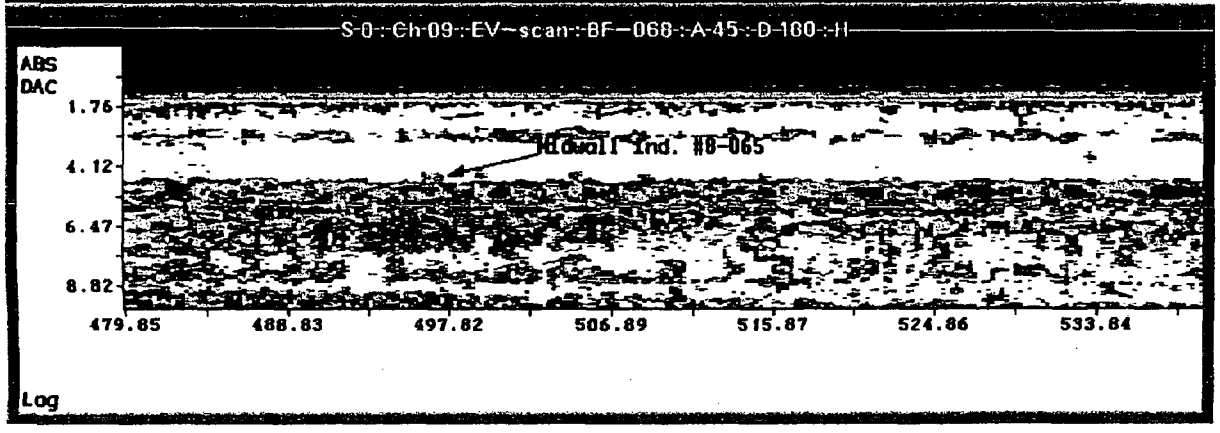




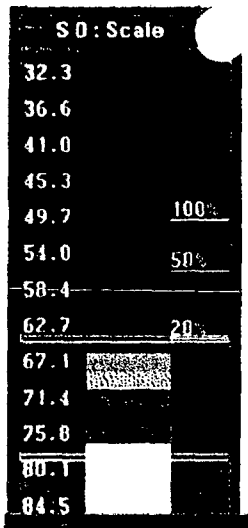


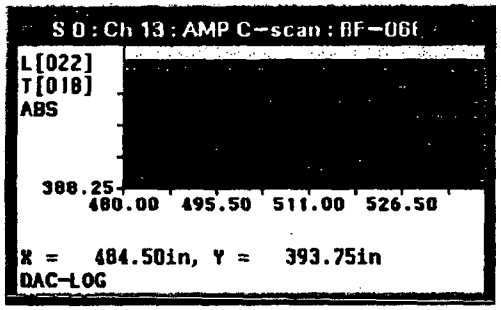


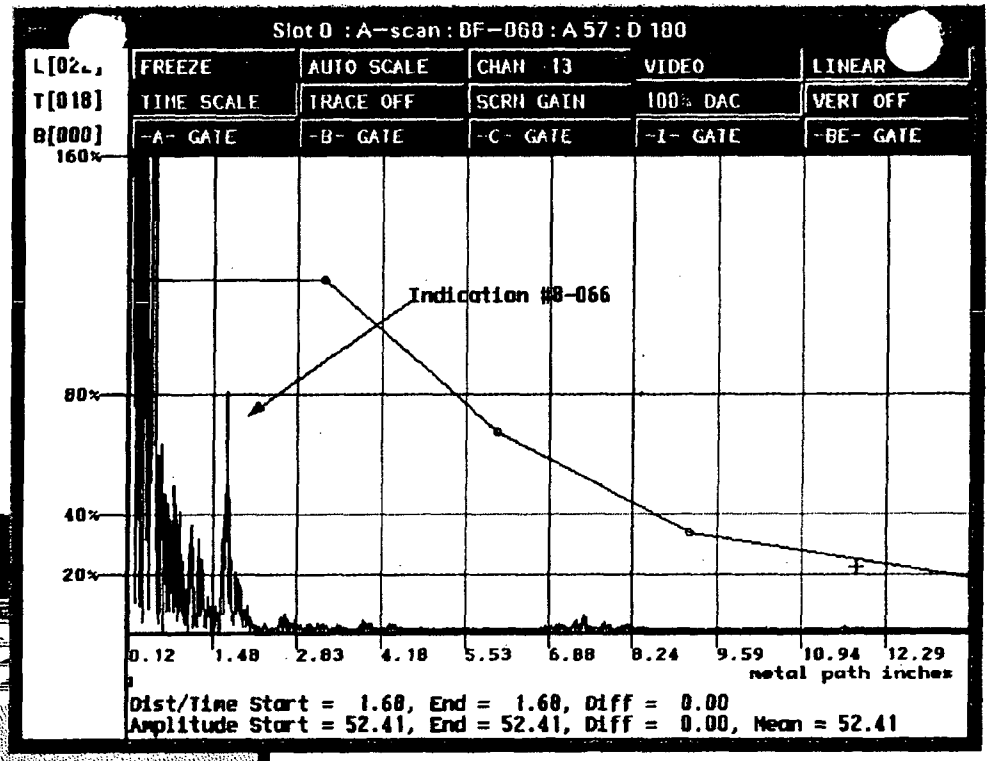


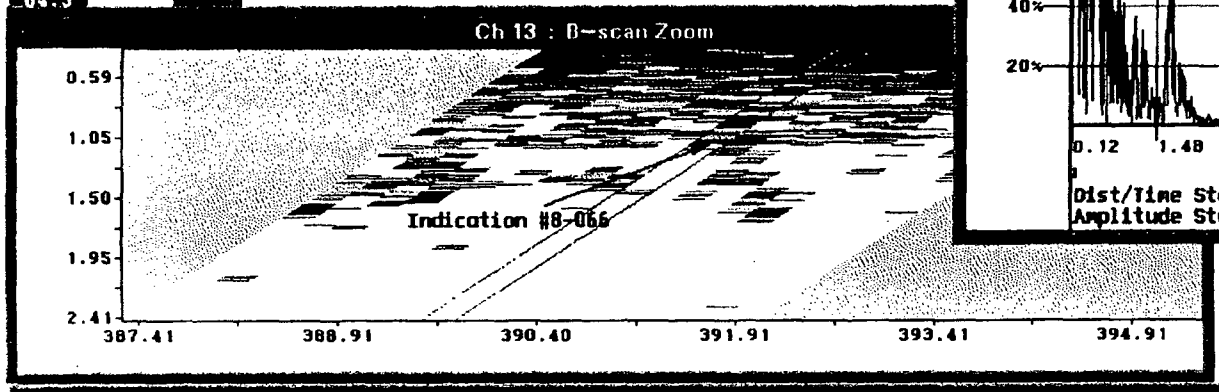


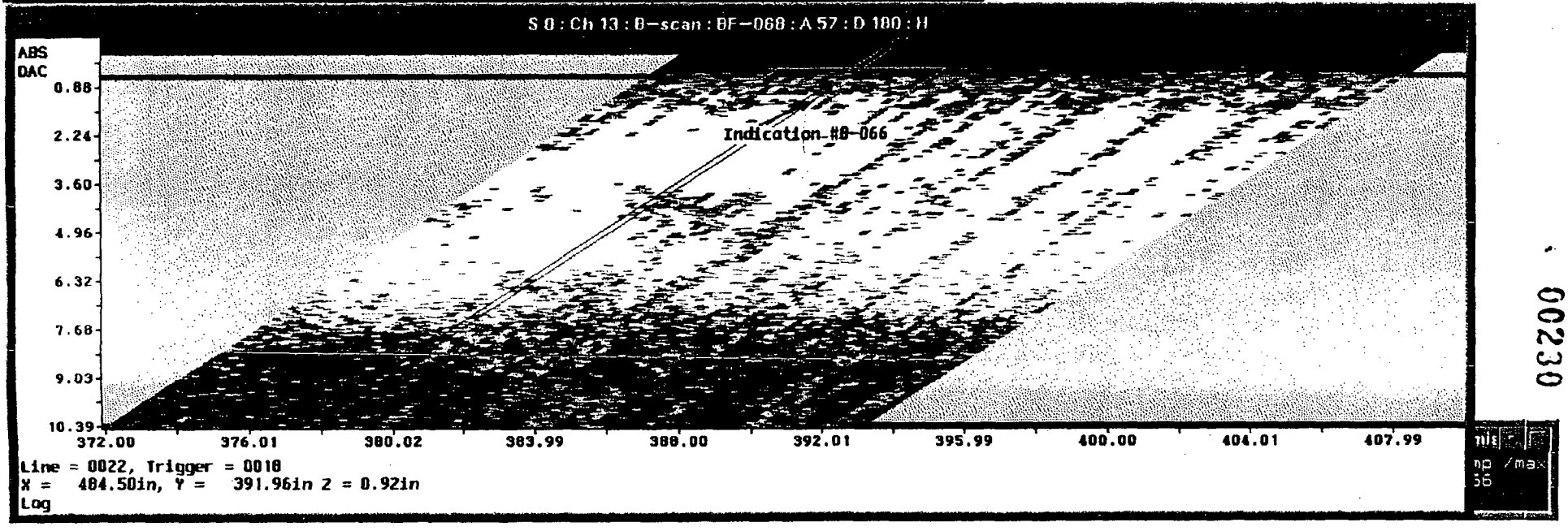
R1154
229 of 276
00229





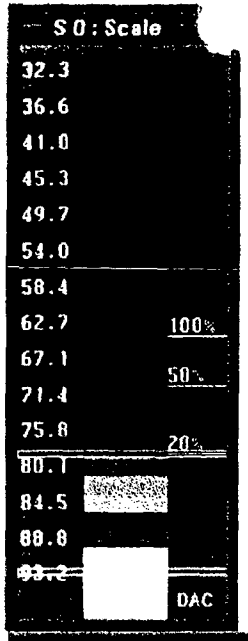


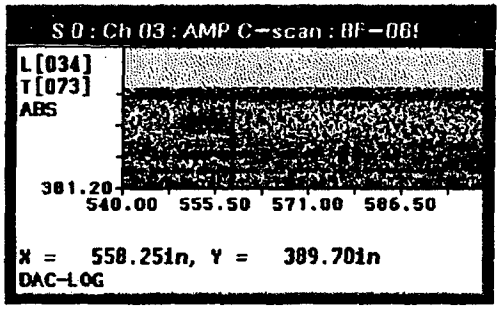


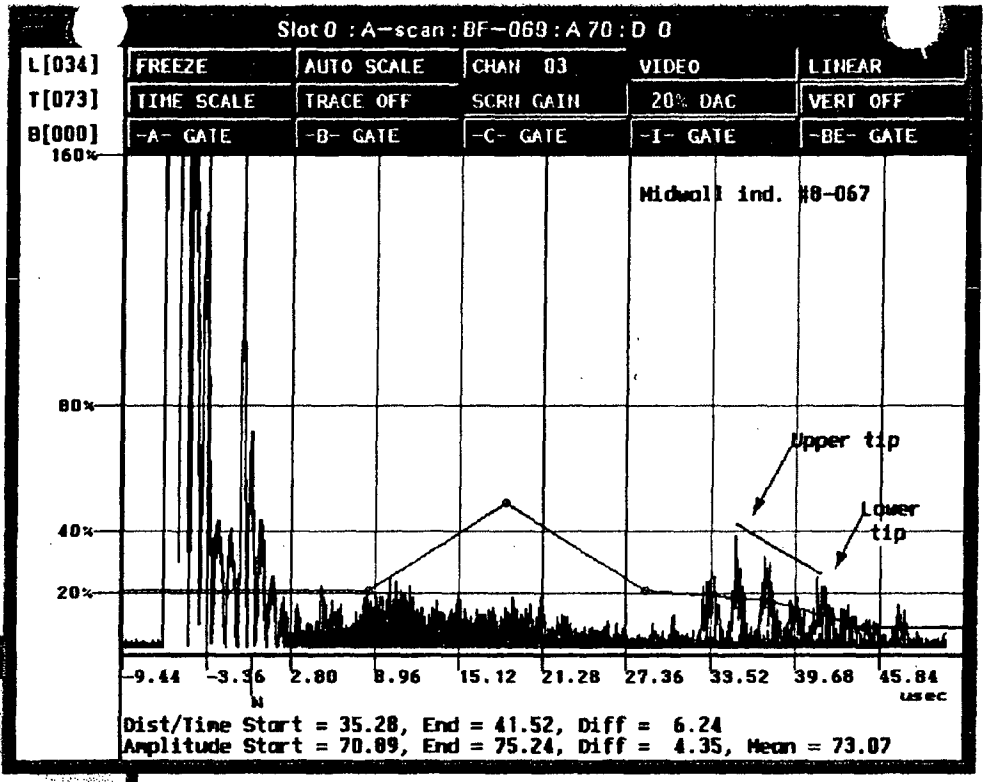


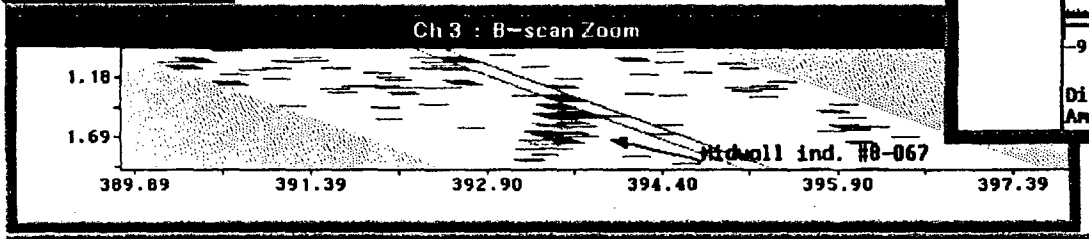
00230

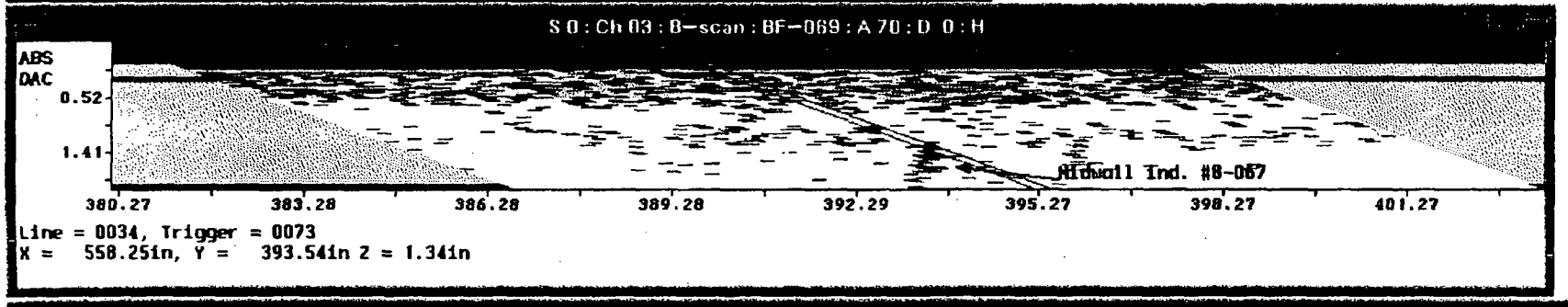
R-154
230 OF 276

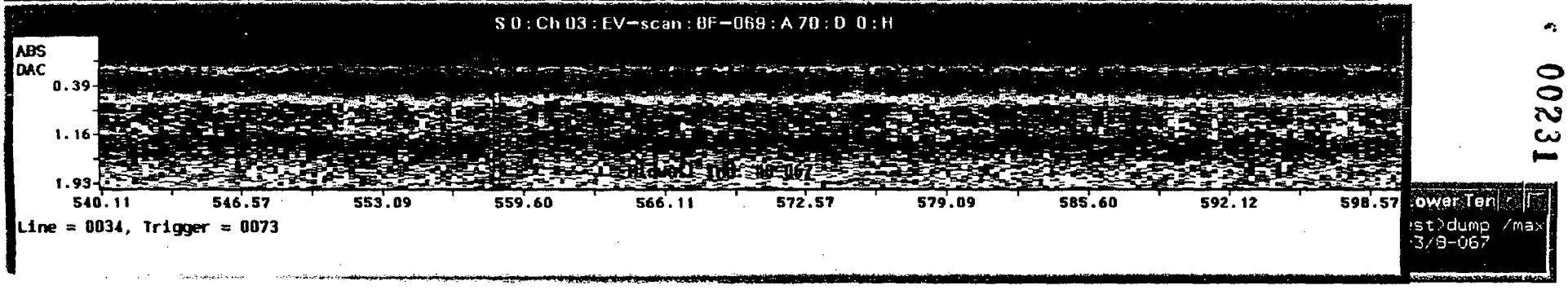


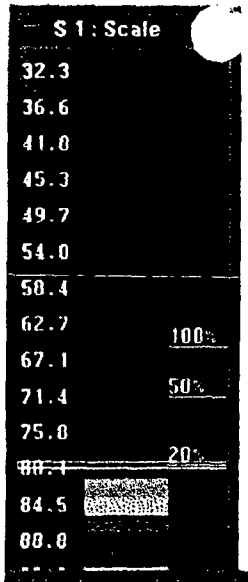


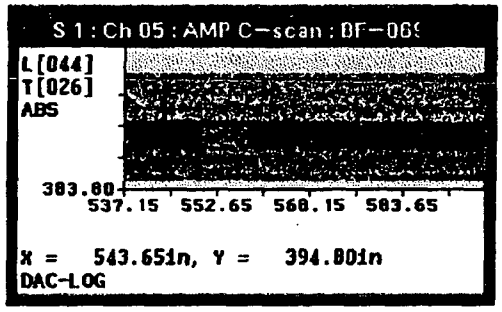


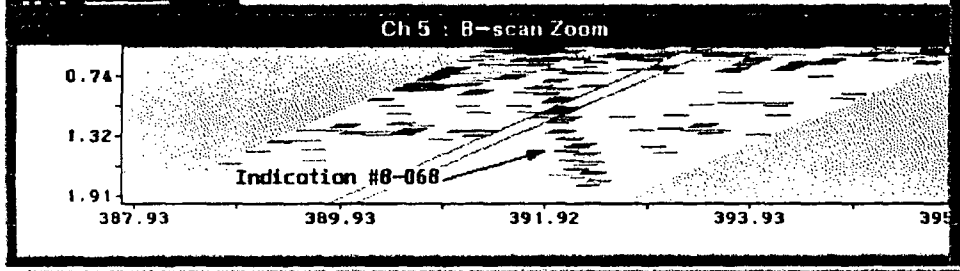


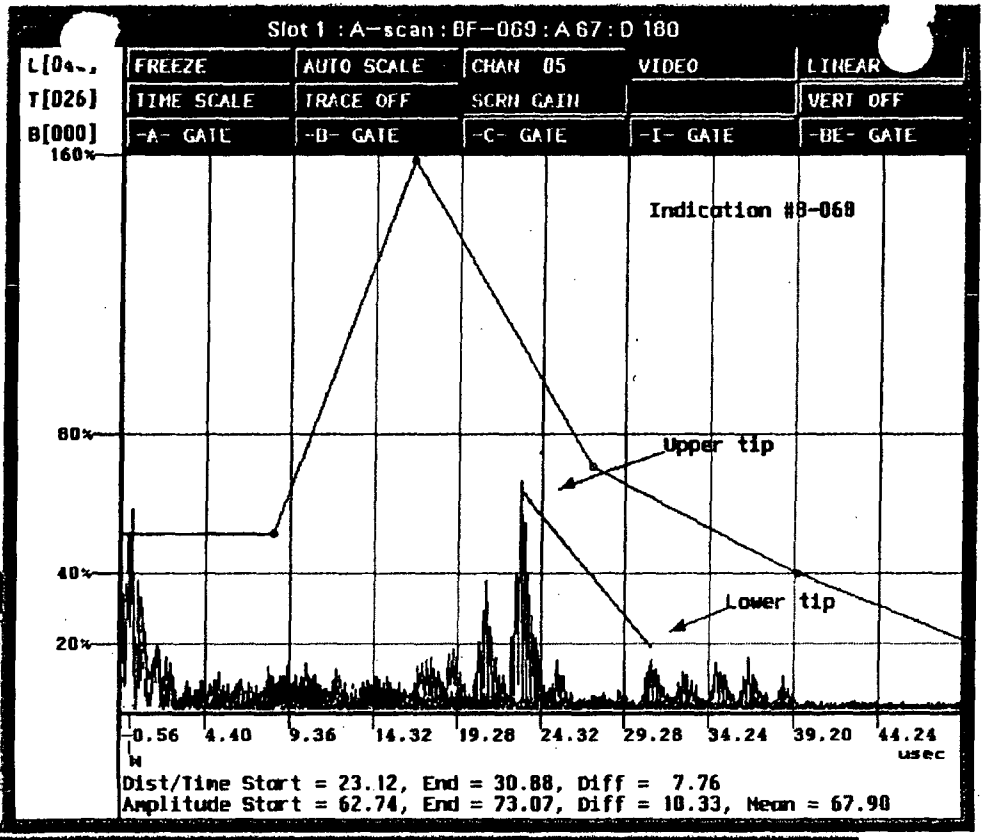


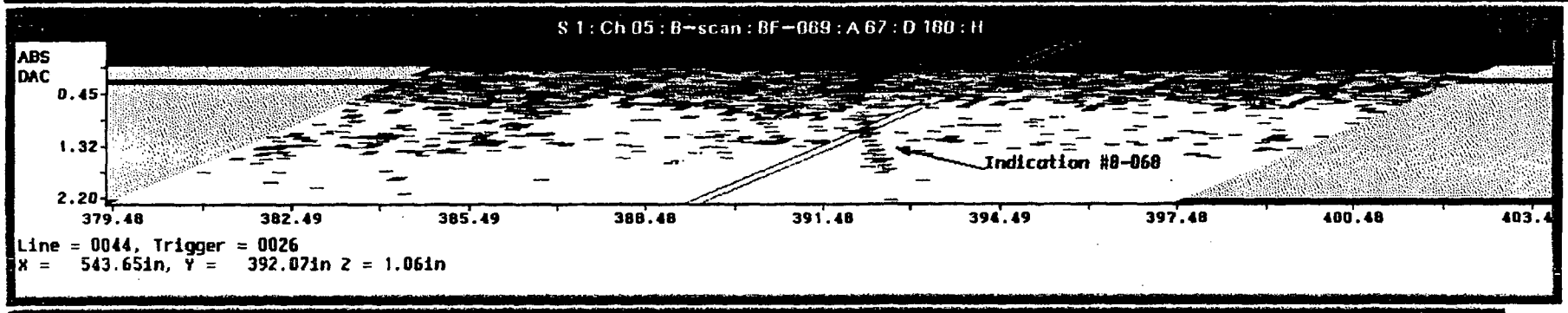


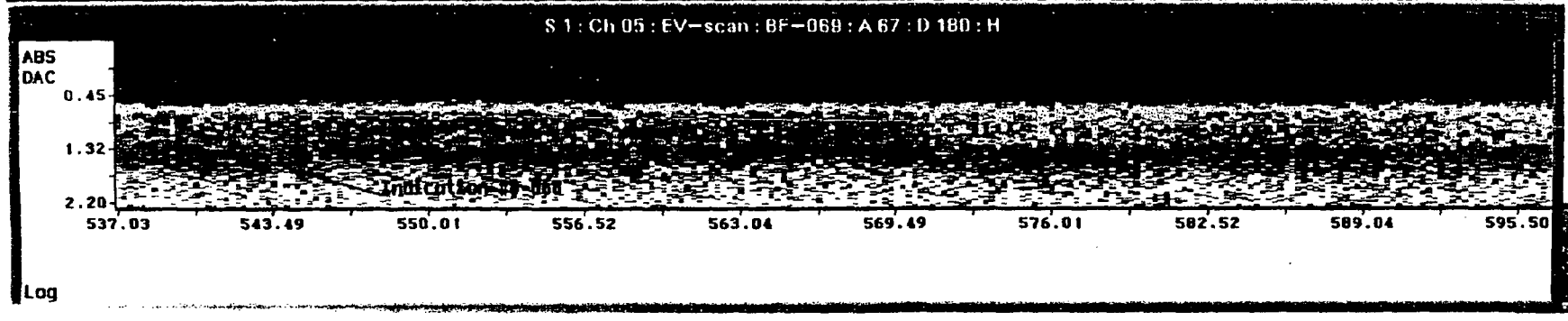








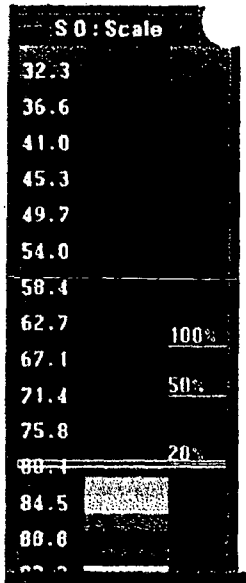


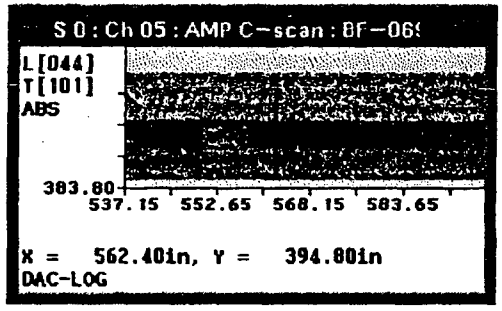


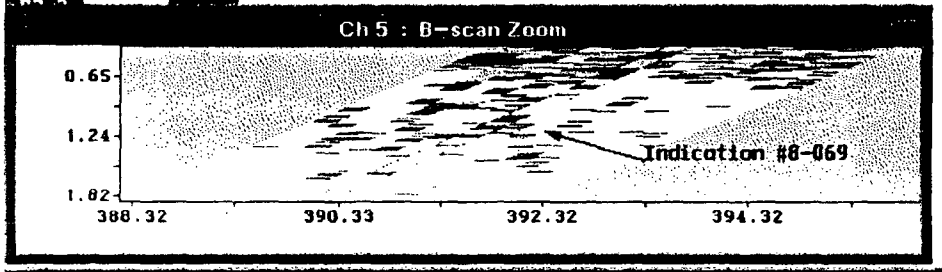
00232

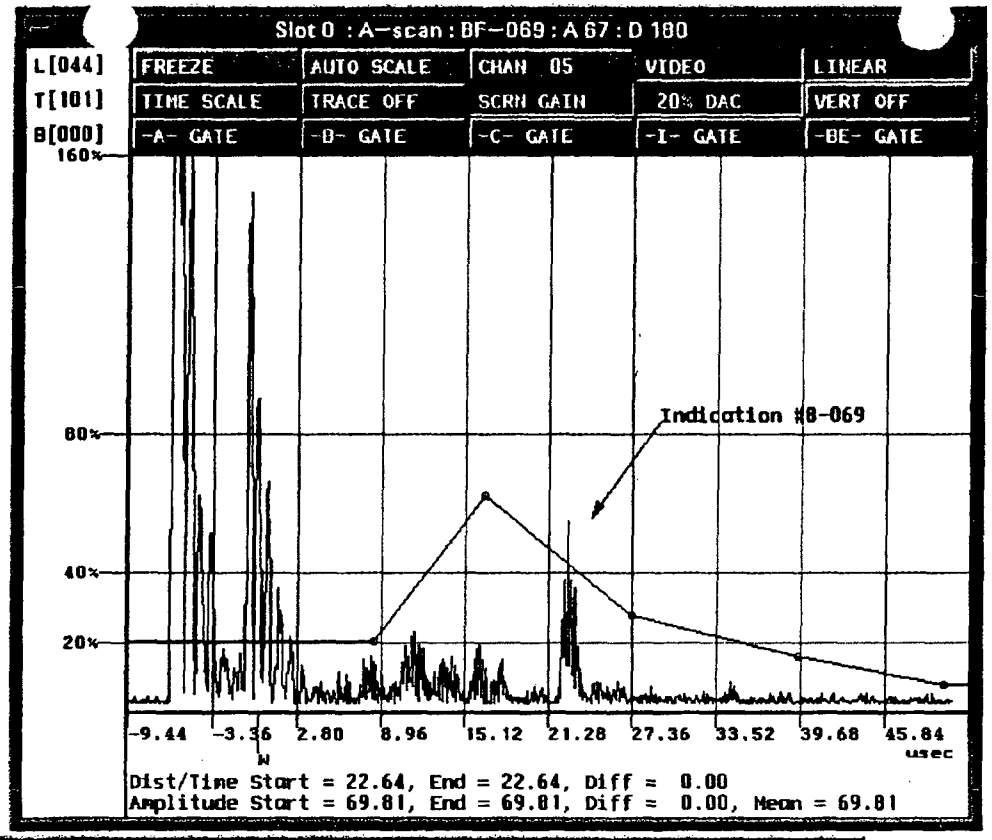
232 OF 276

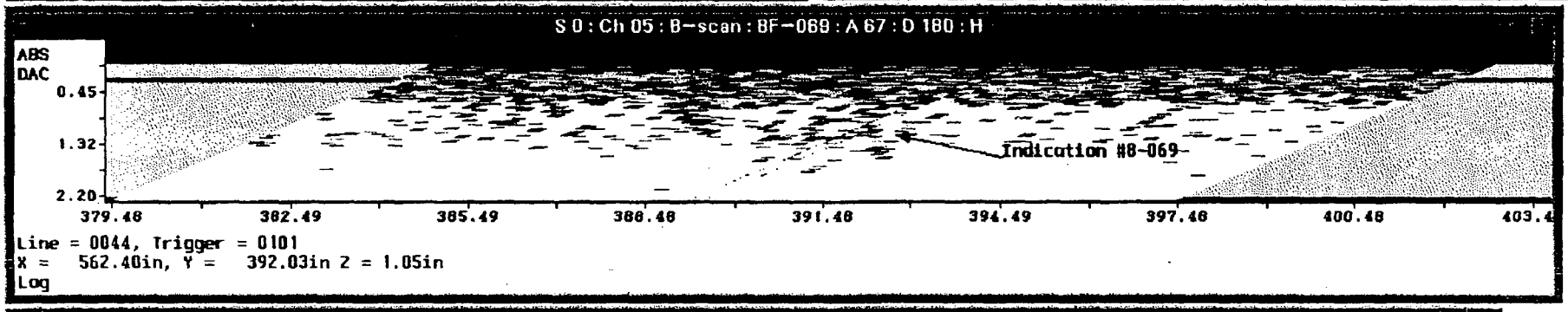
21154

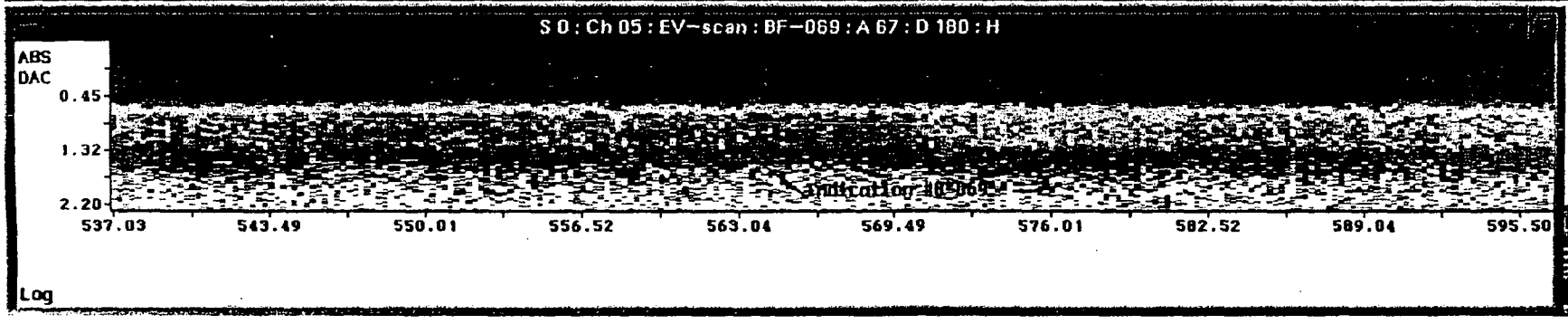






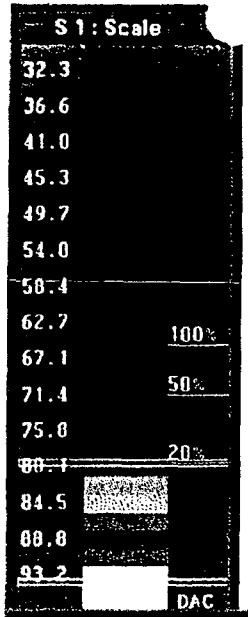


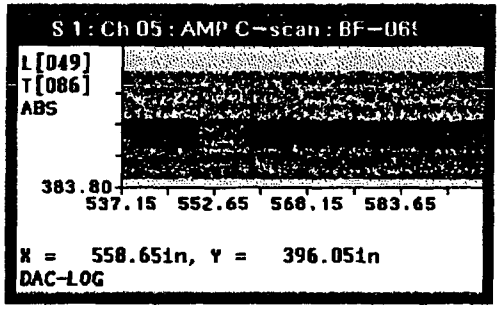


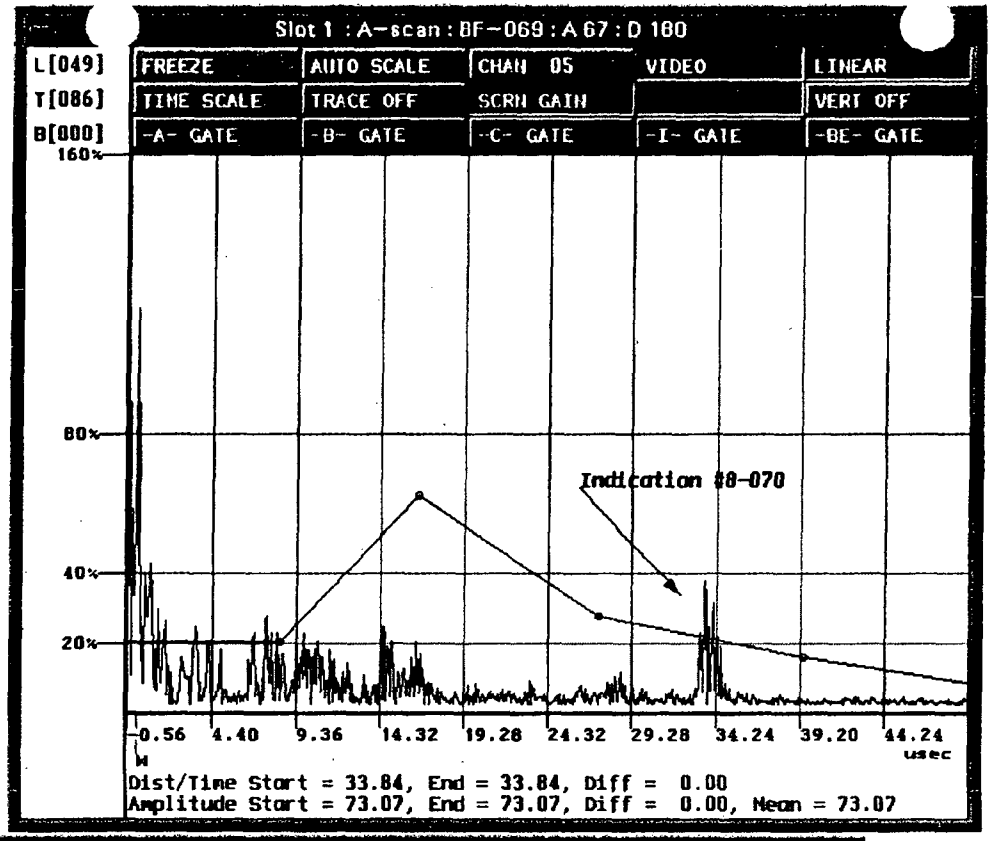


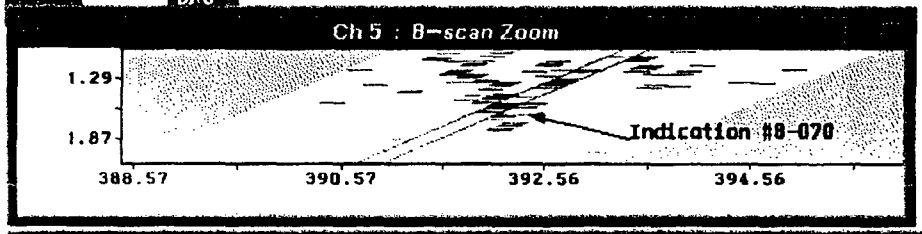
00233

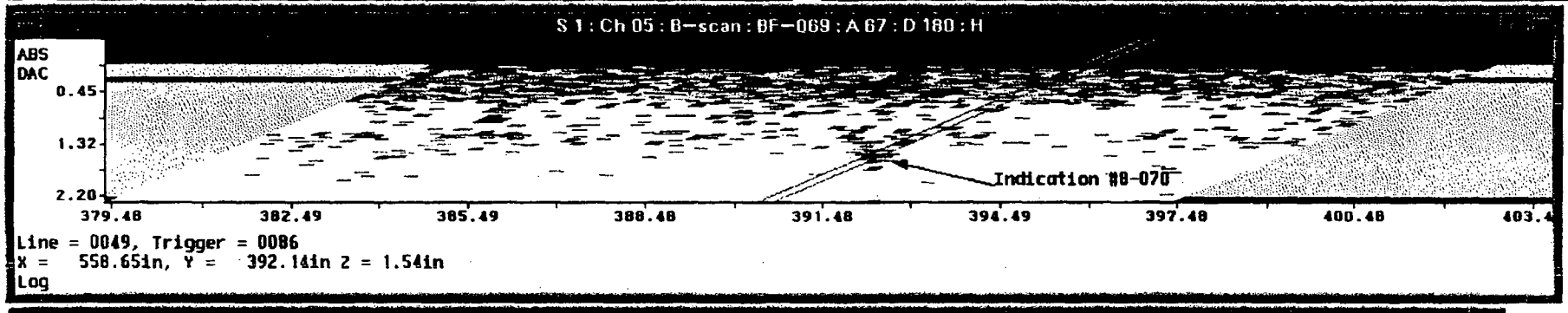
K1154
233 of 276

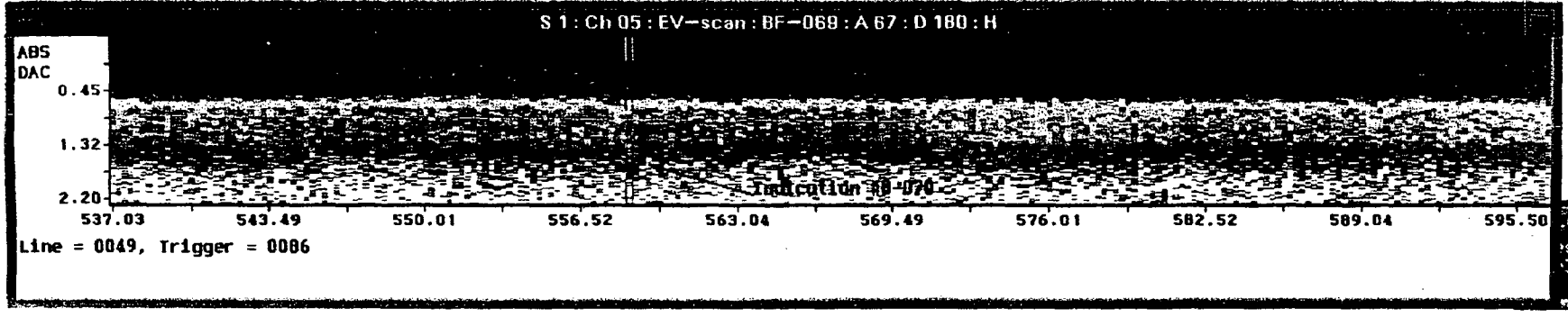


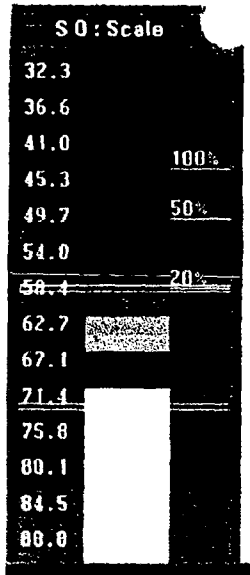


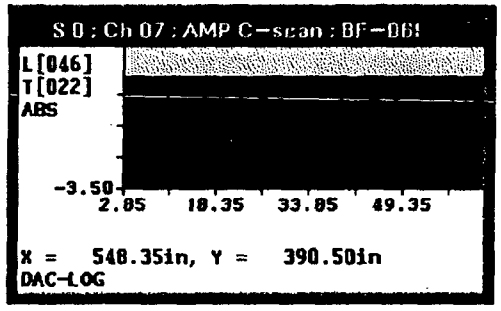


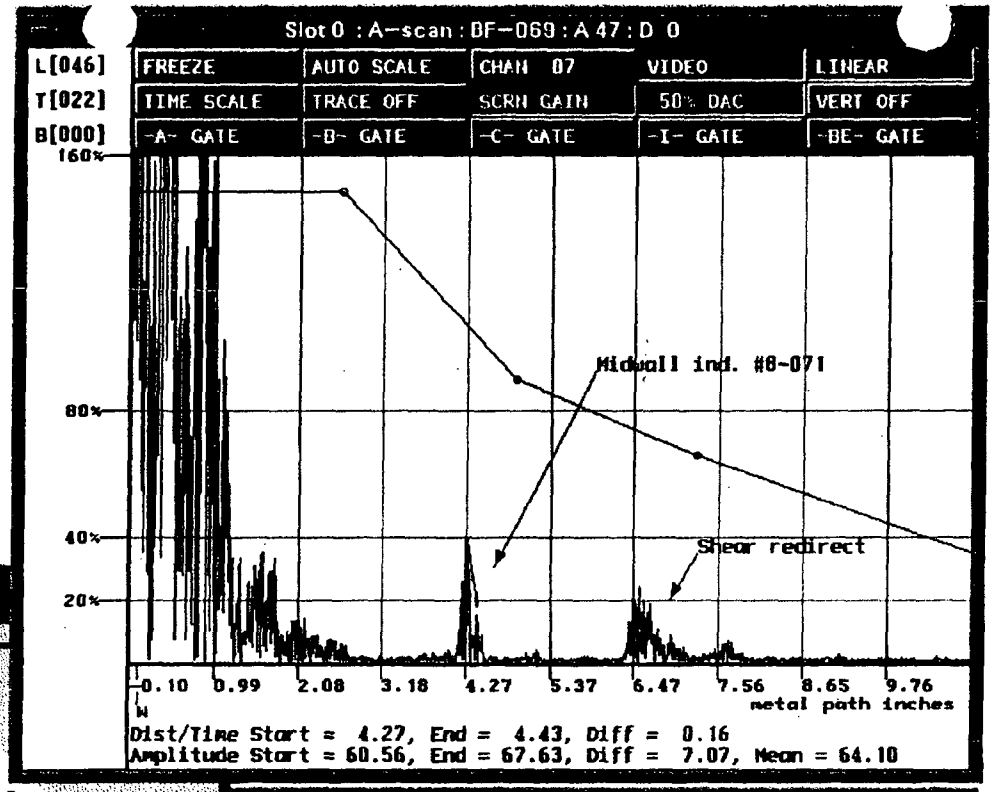


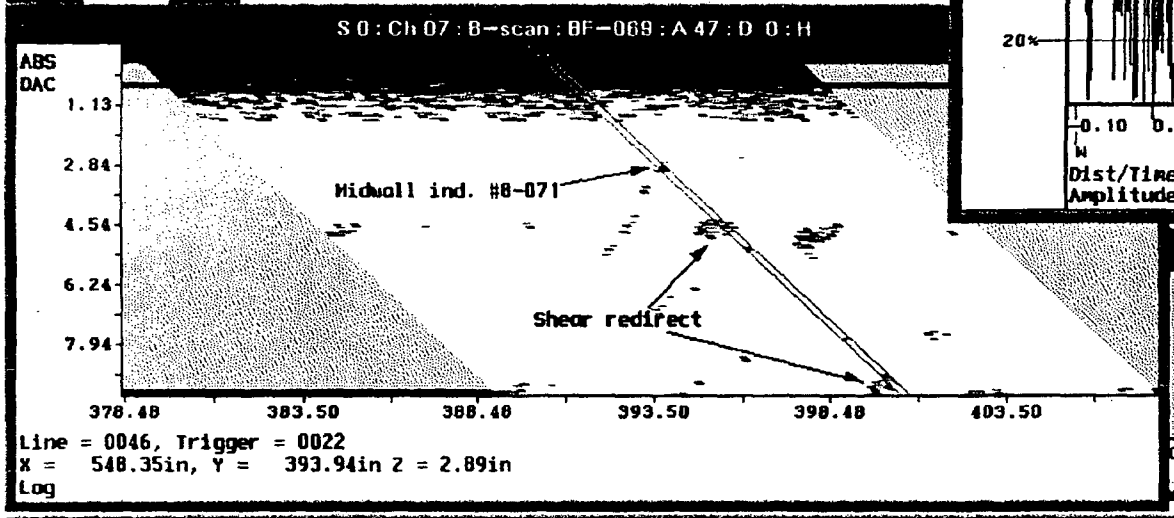


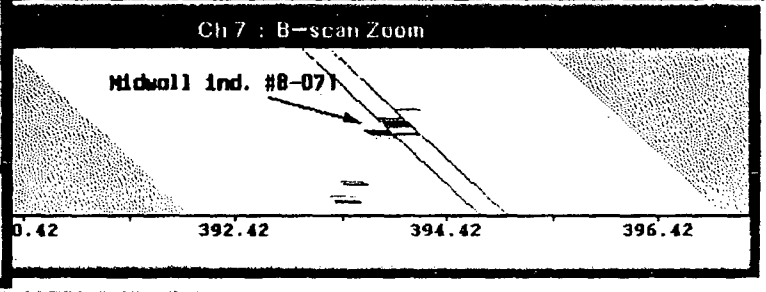


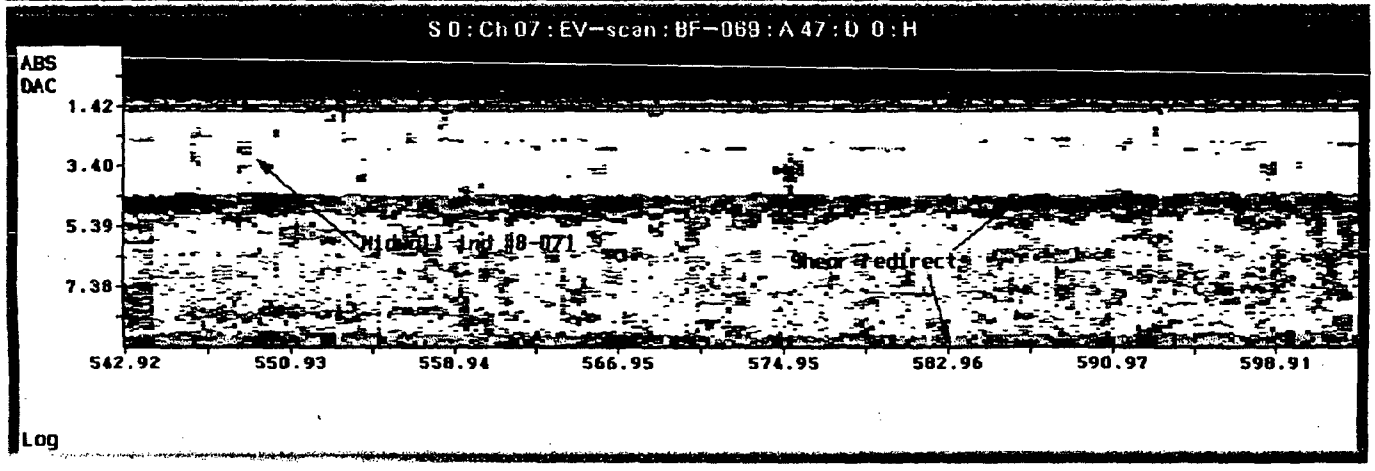


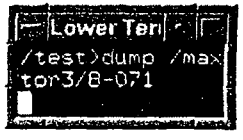






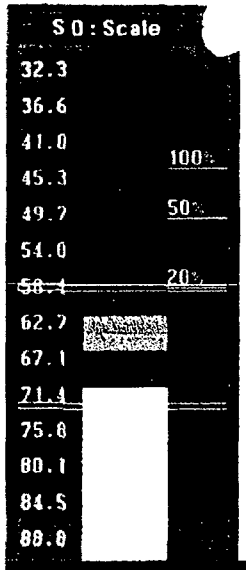


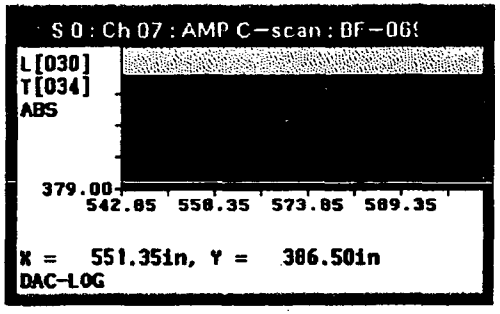


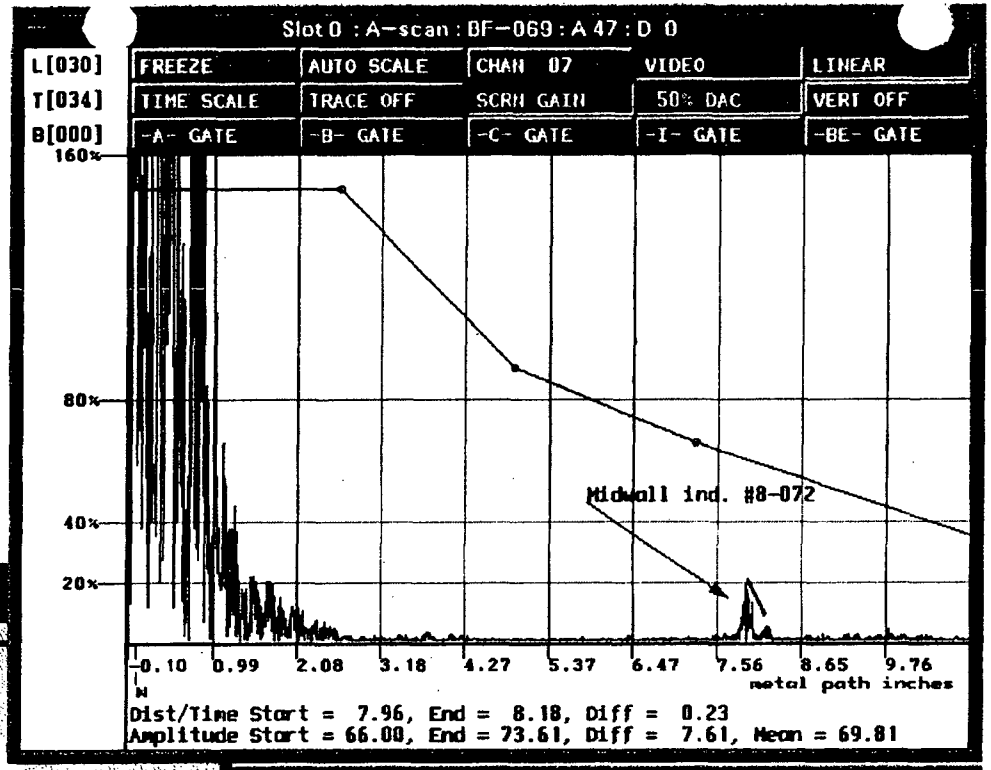


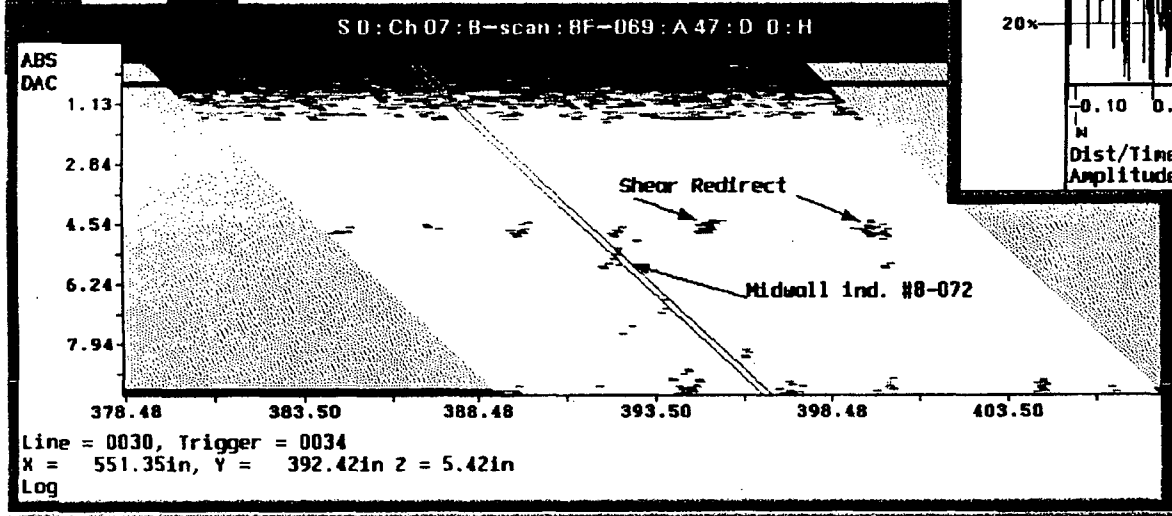
00235

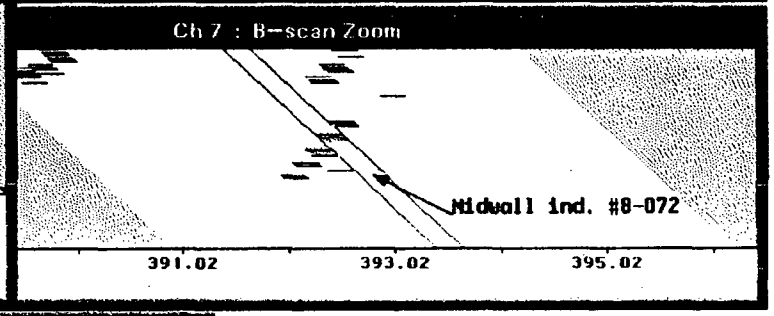
K154
235 OF 276

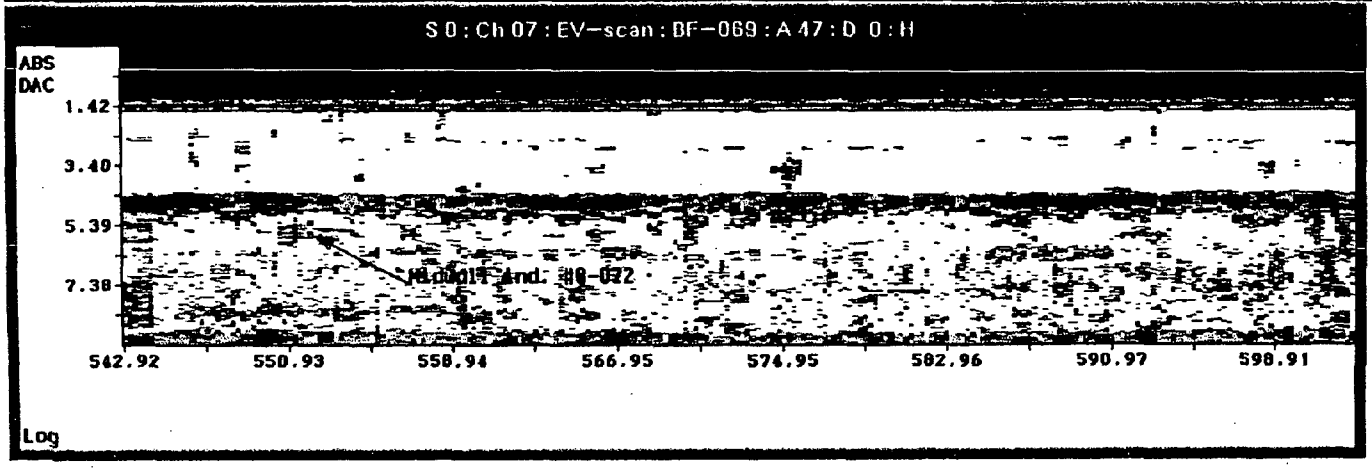








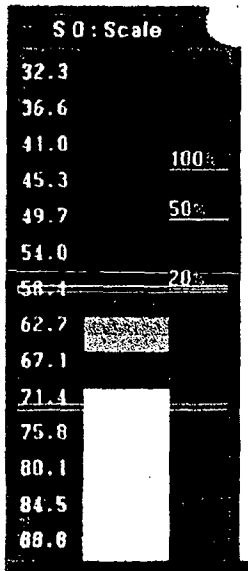


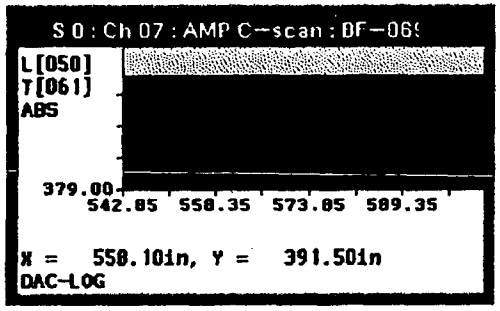


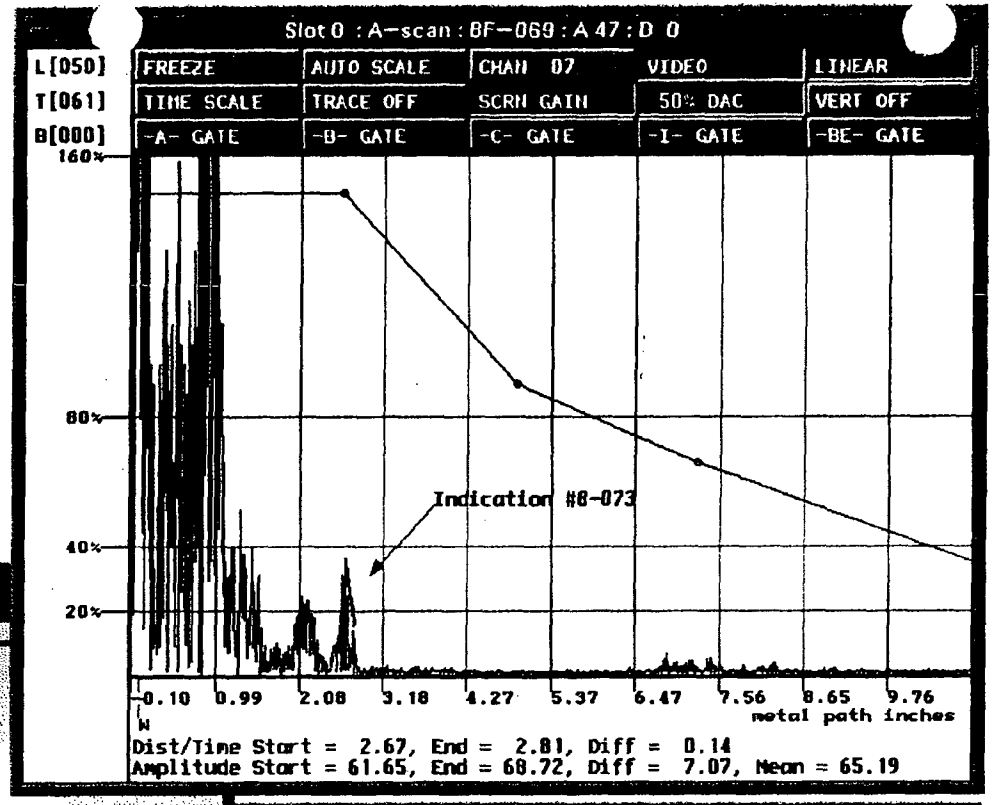
00236

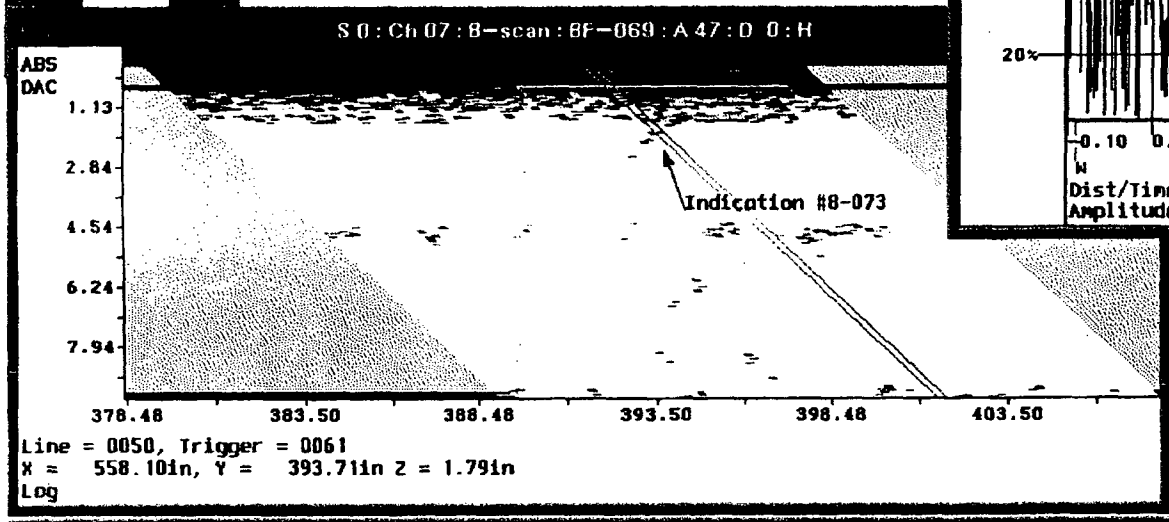
K1154

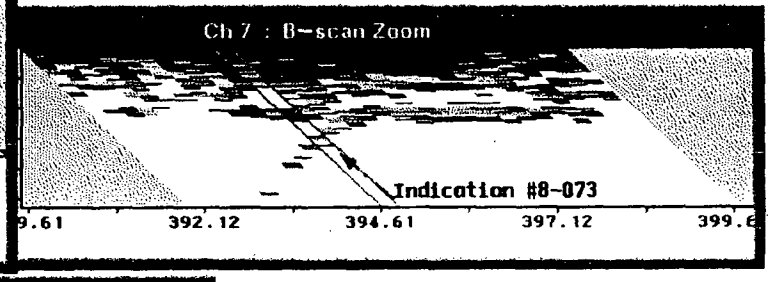
236 OF 276

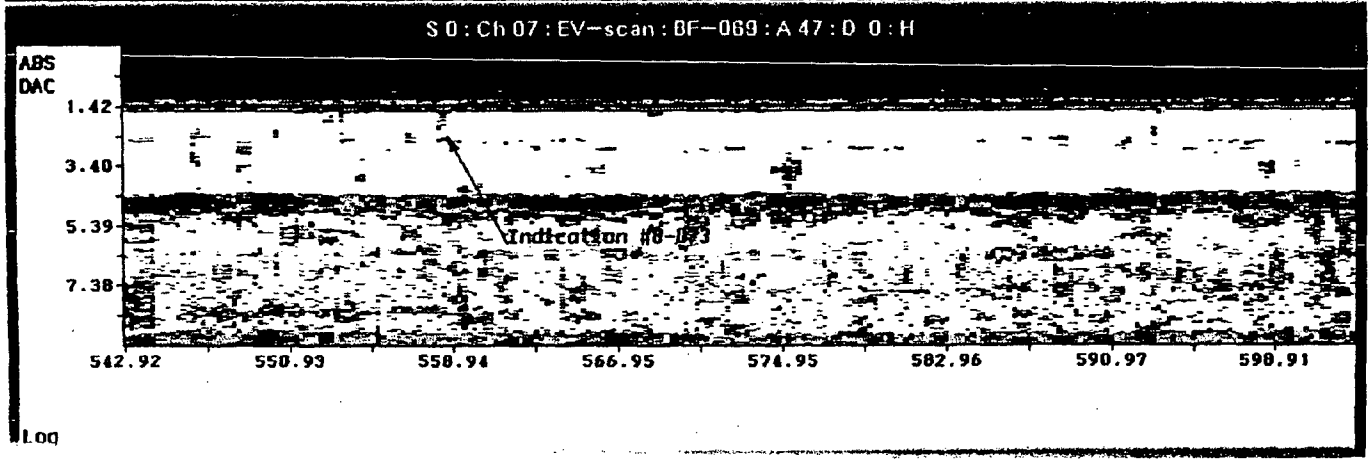








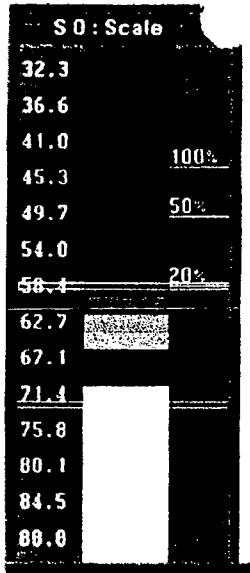


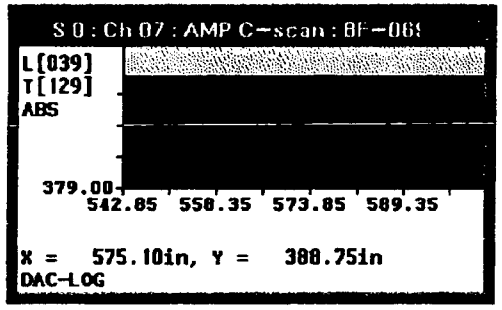


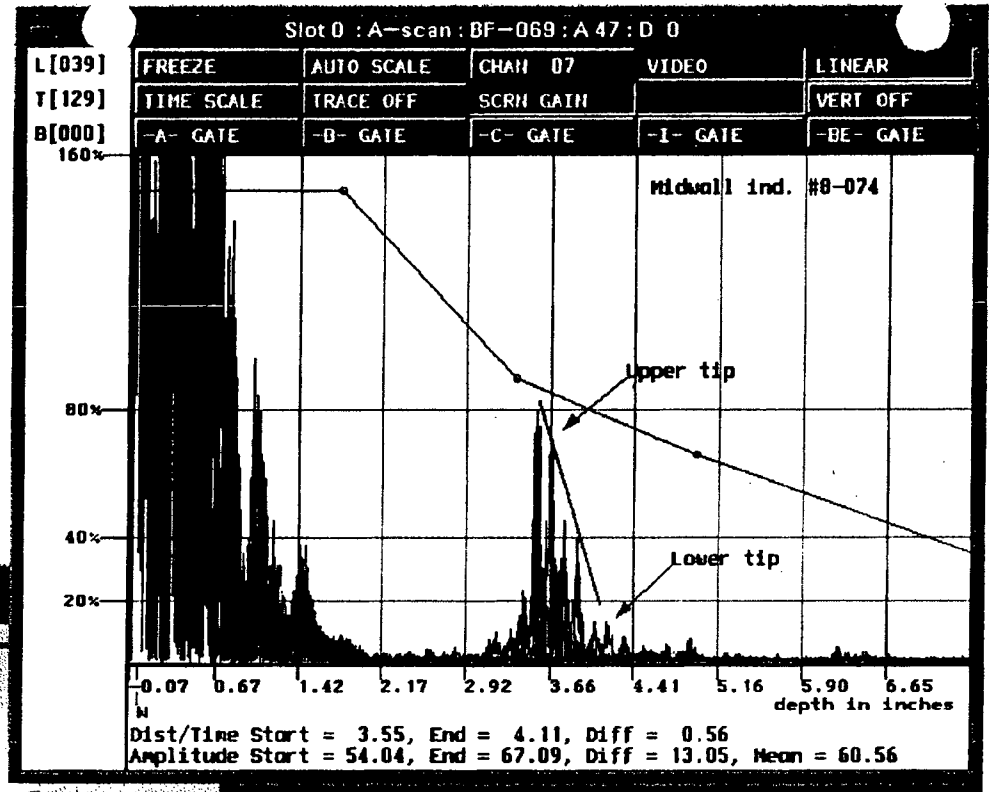
00237

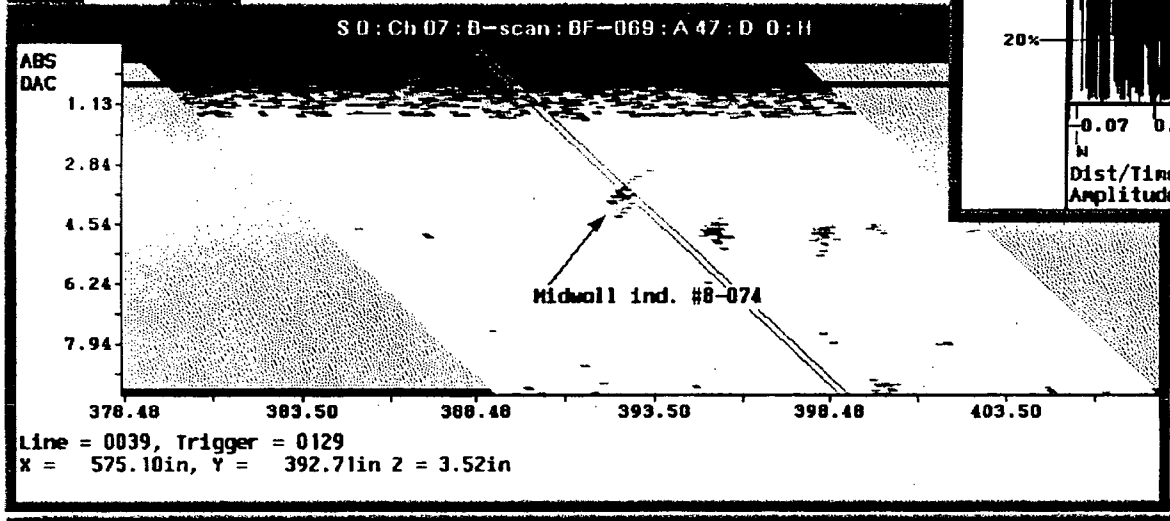
K1154

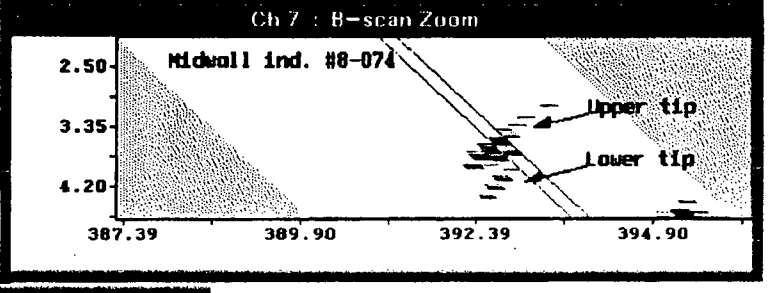
237 OF 276

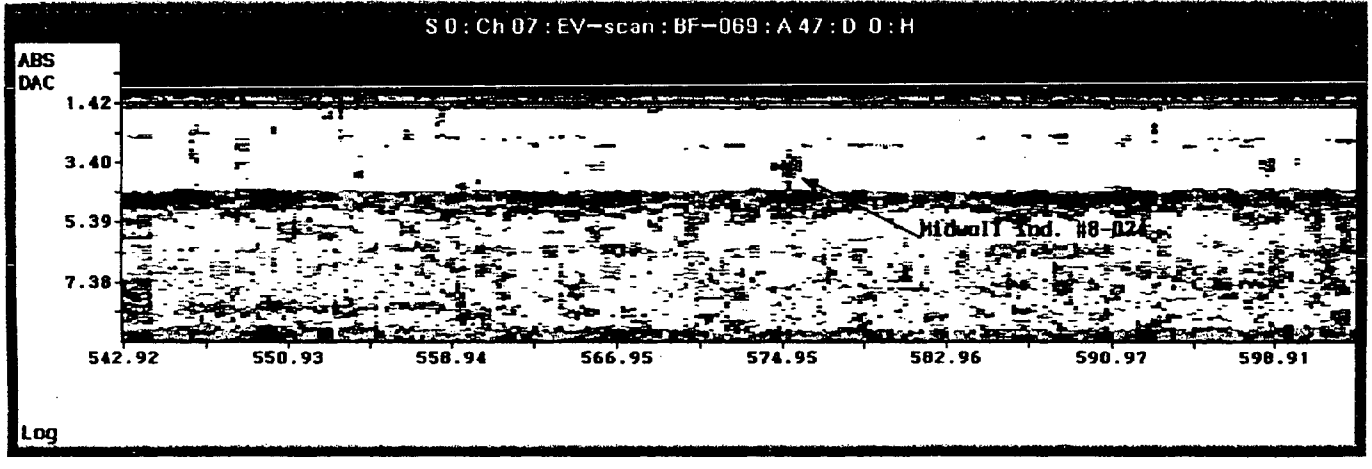






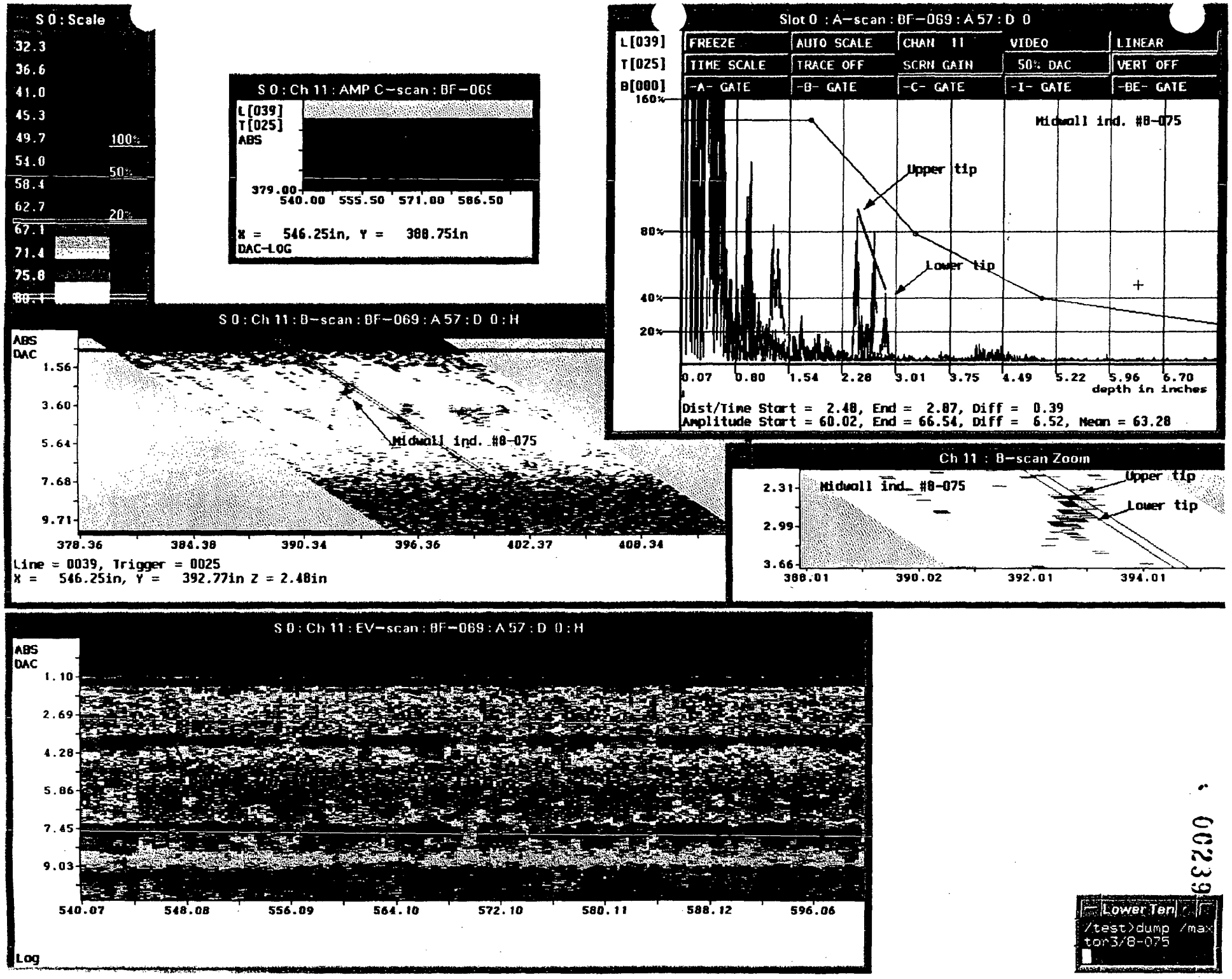




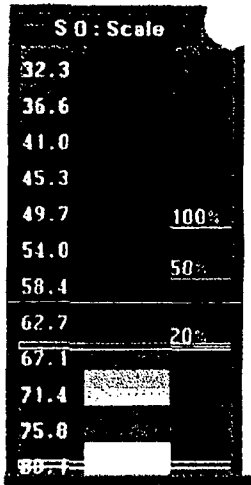


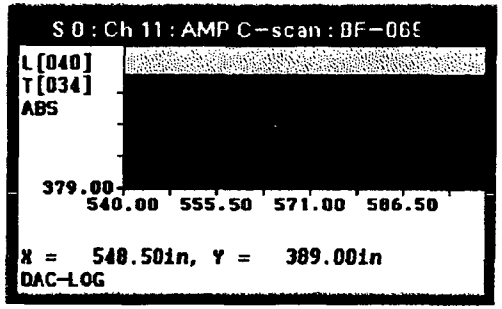
00238

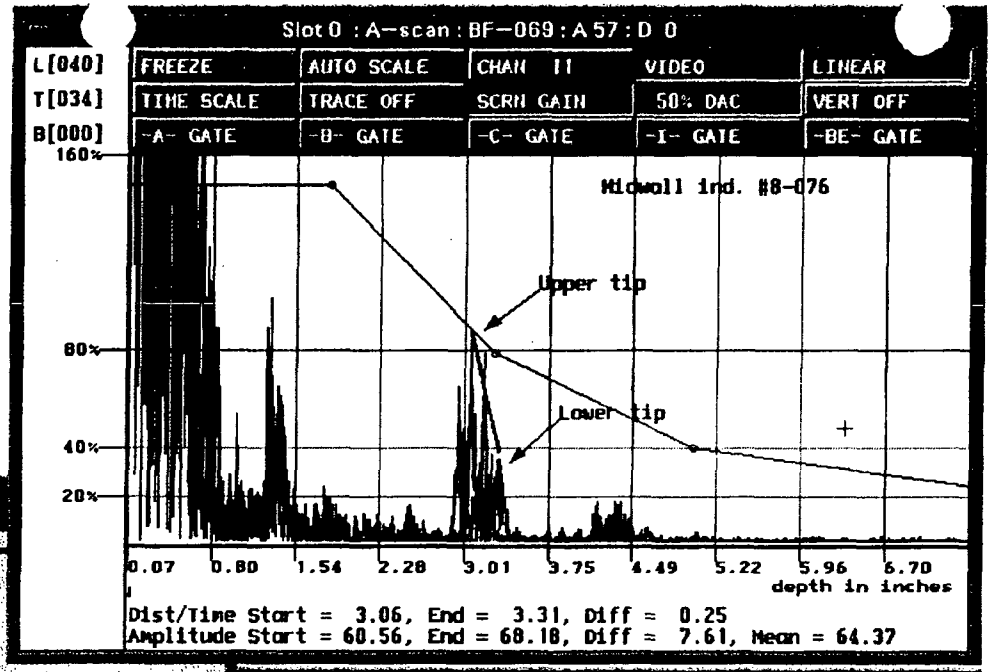
R1154
238 of 276

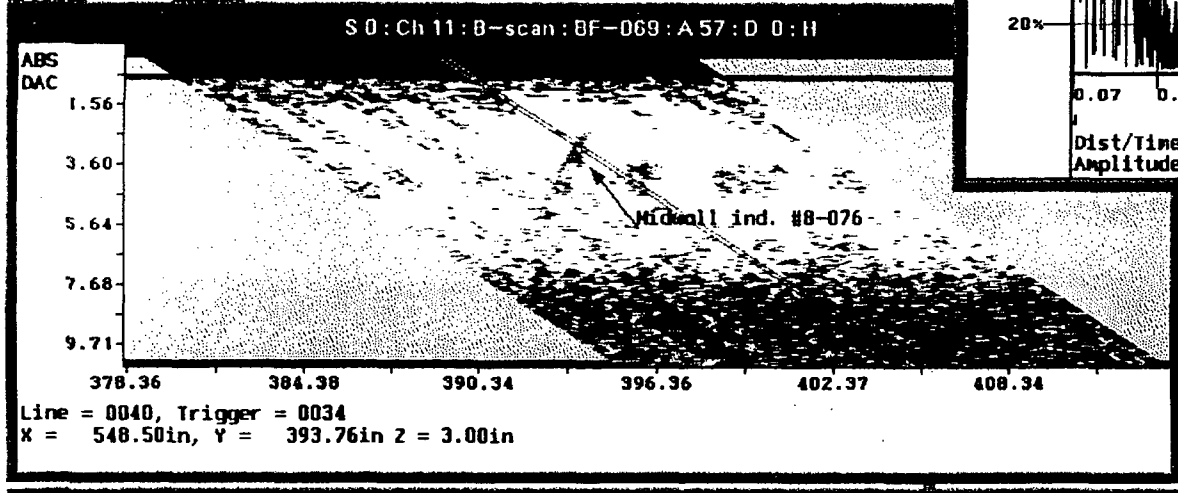


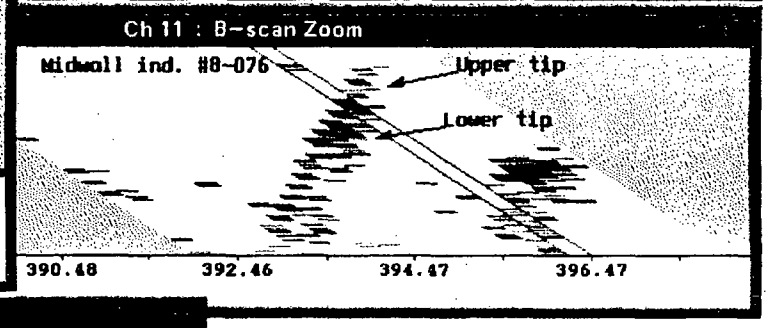
R1154
239 OF 276

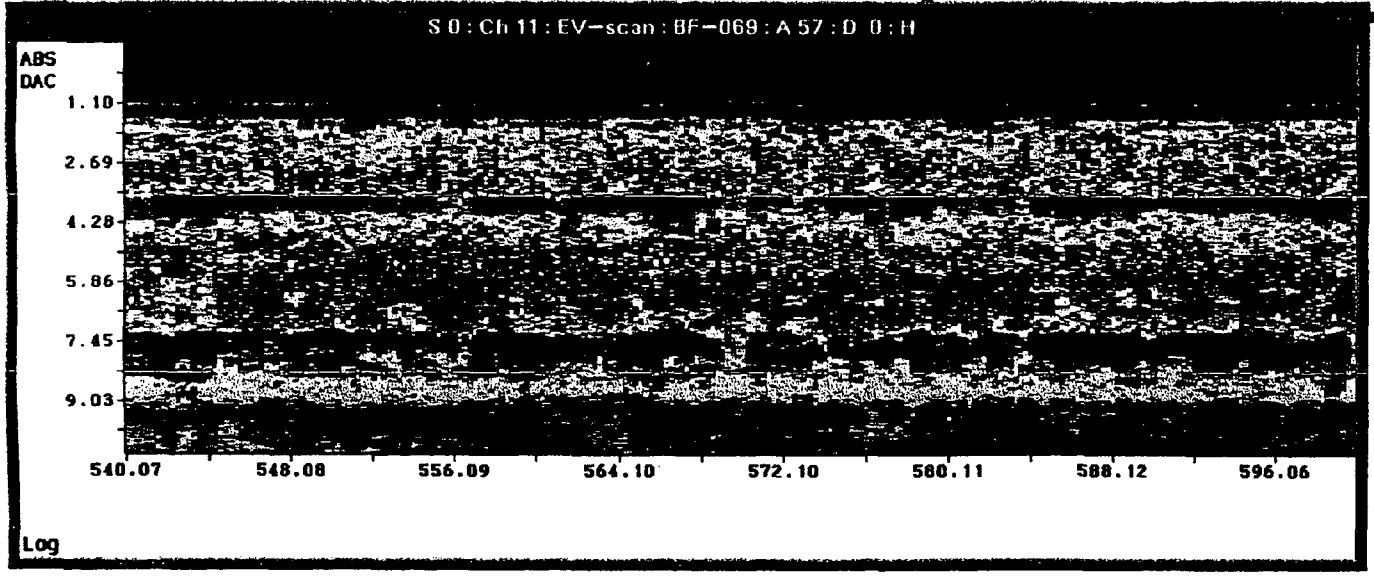








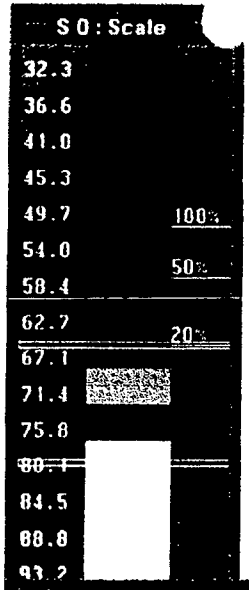


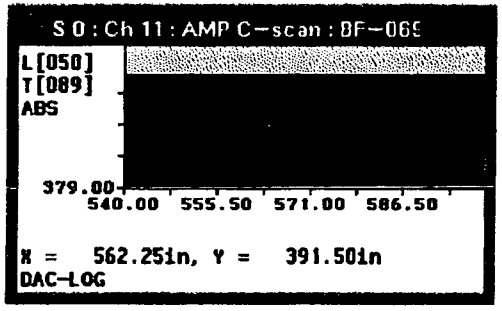


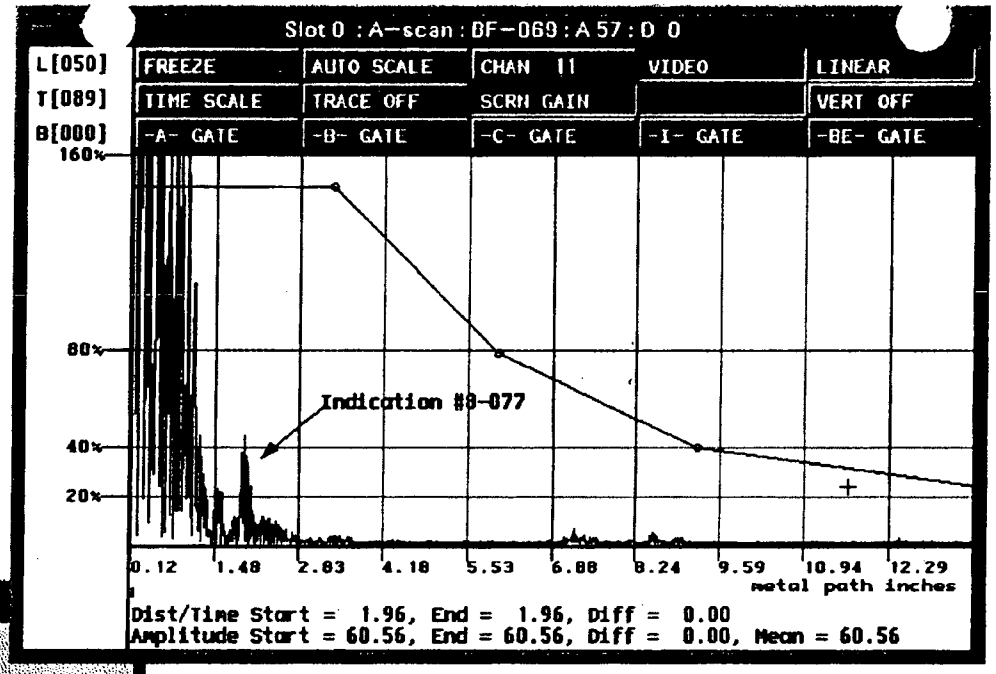
00240

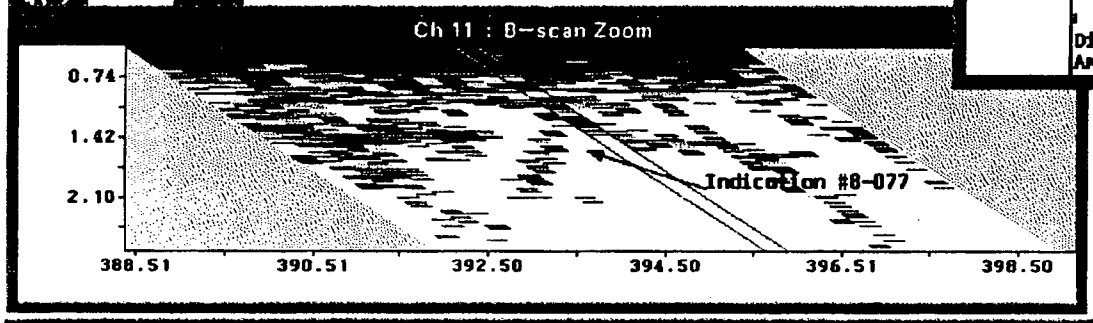
R1154

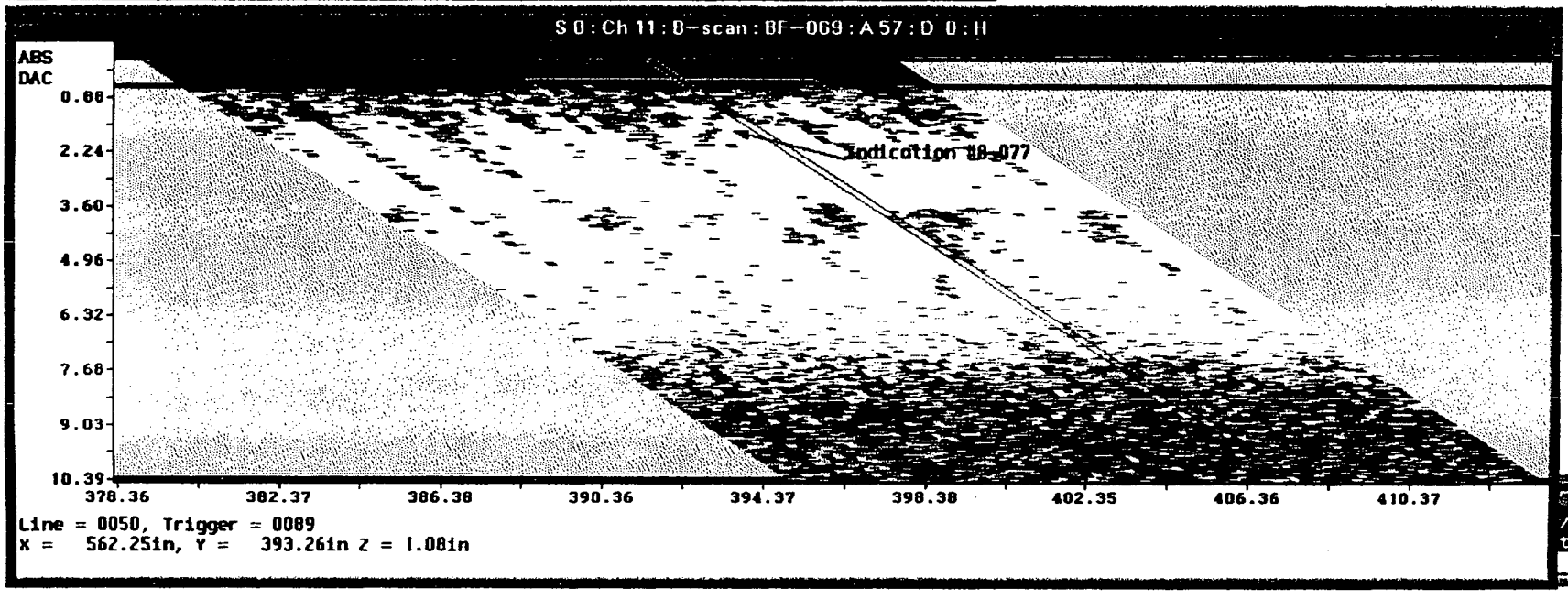
240 OF 276





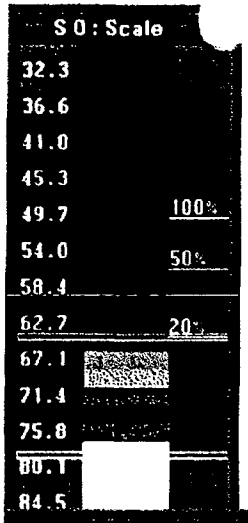


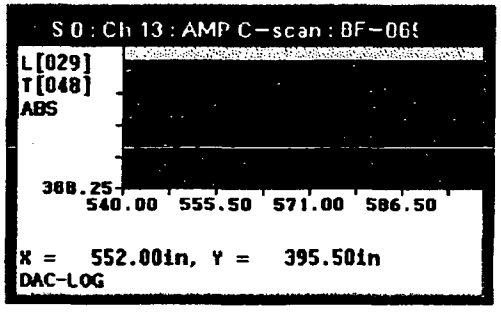


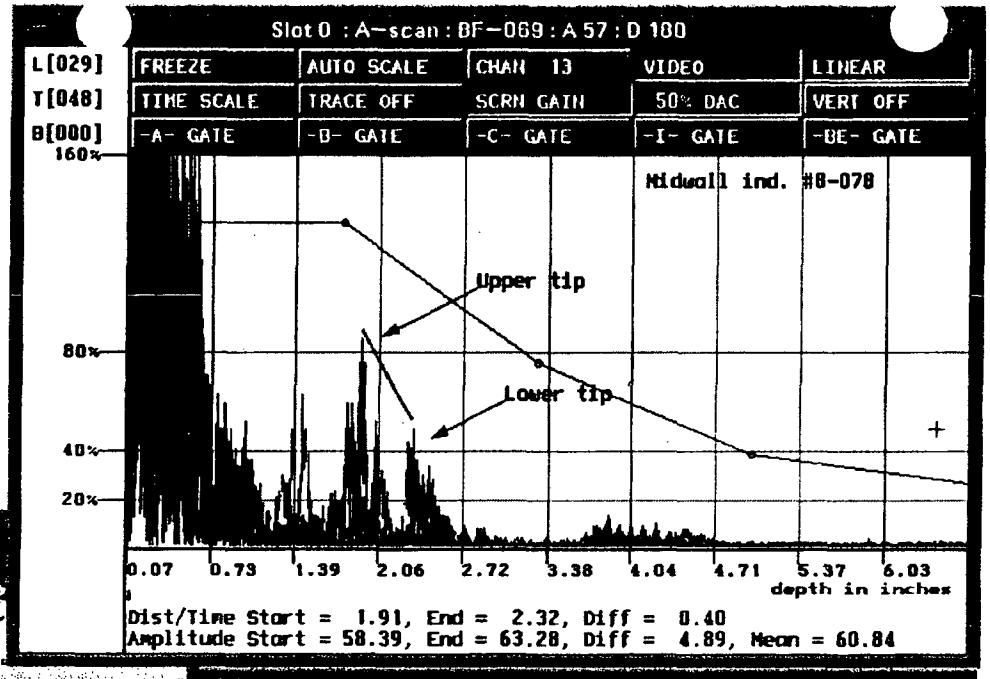


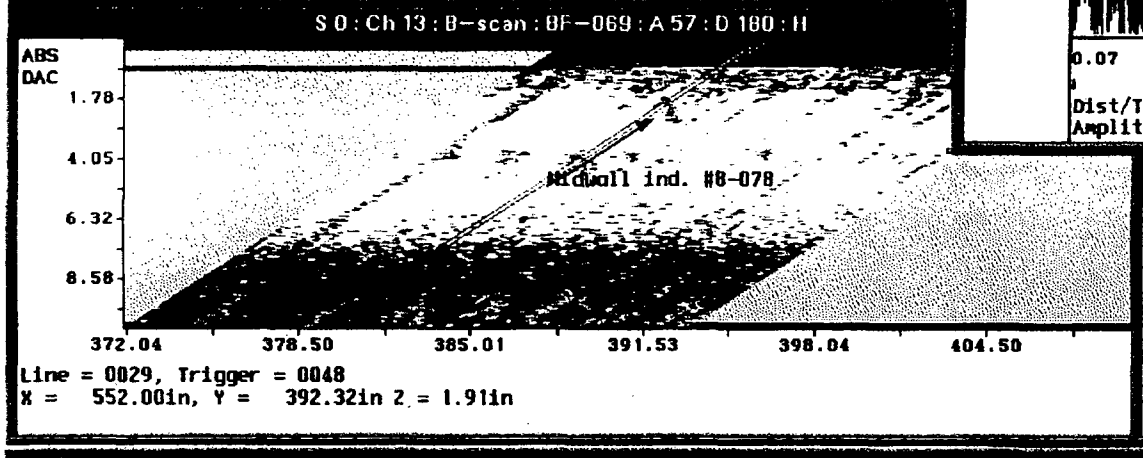
60241

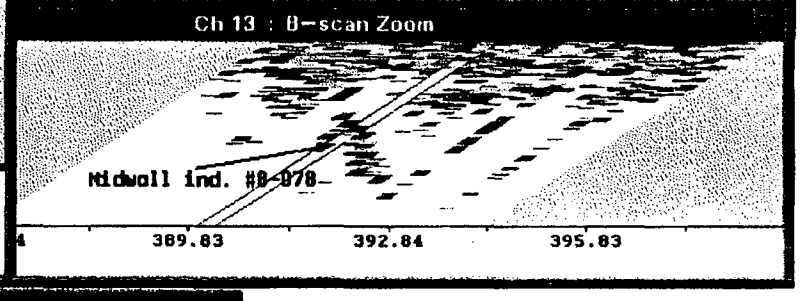
R1154
241 OF 276

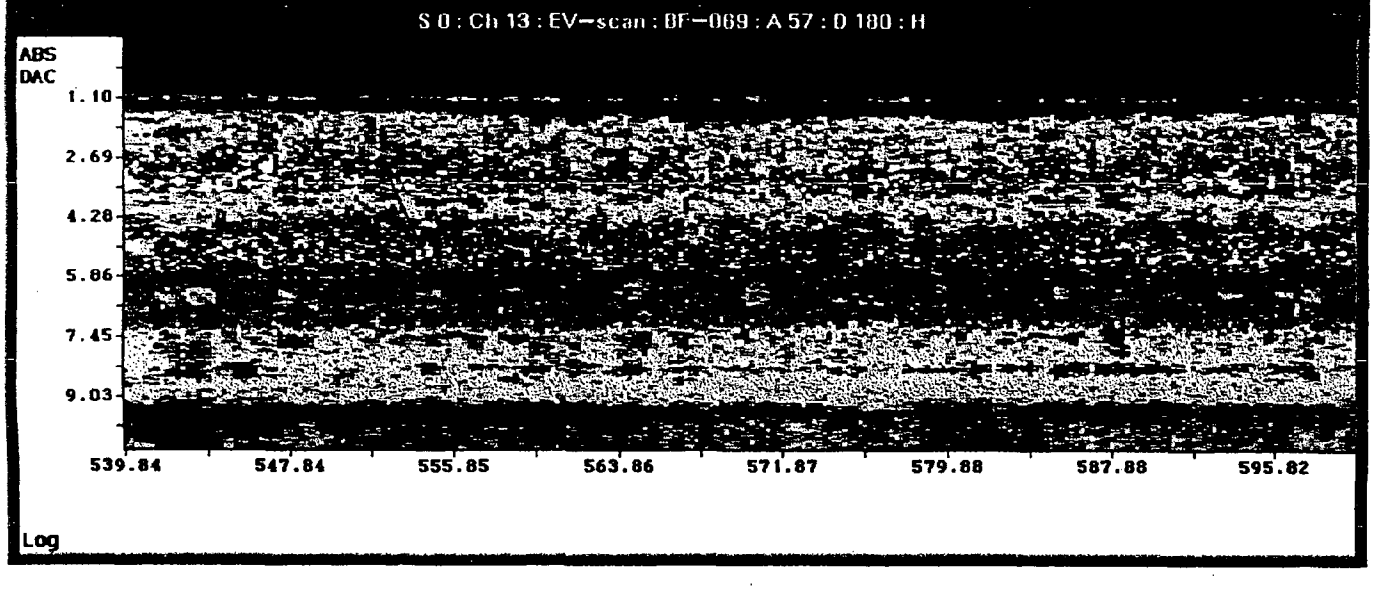








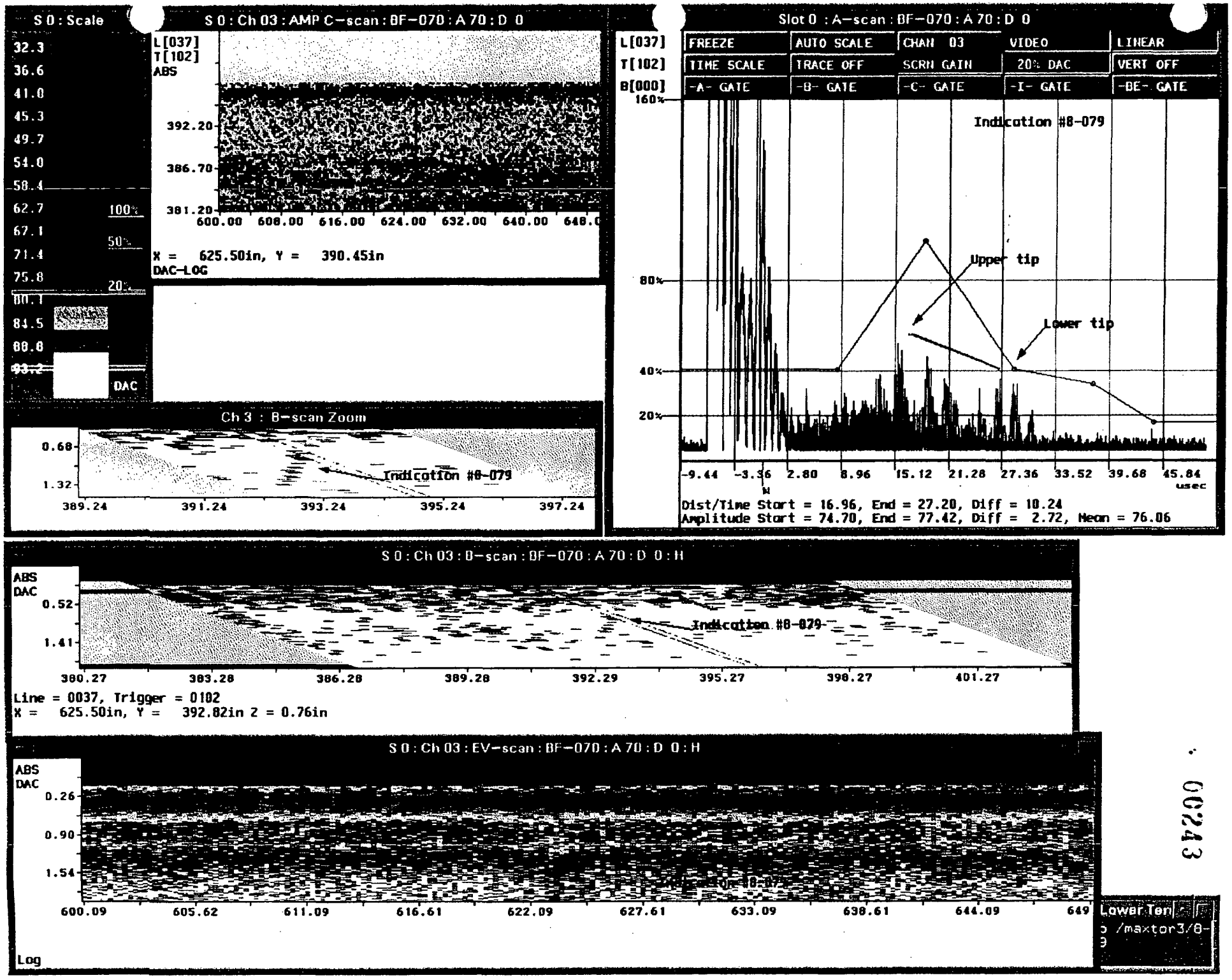




00242

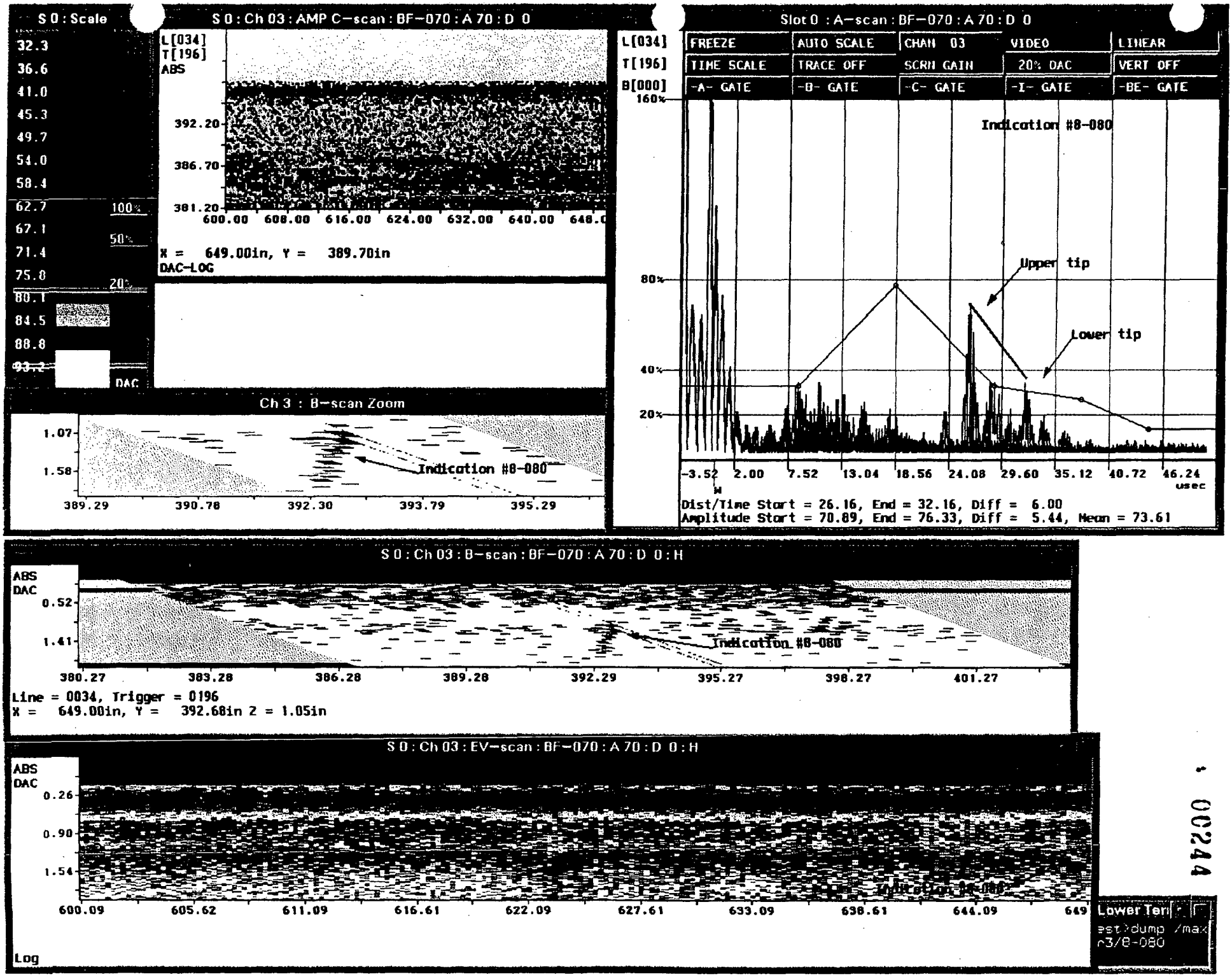
242 OF 276

R1154



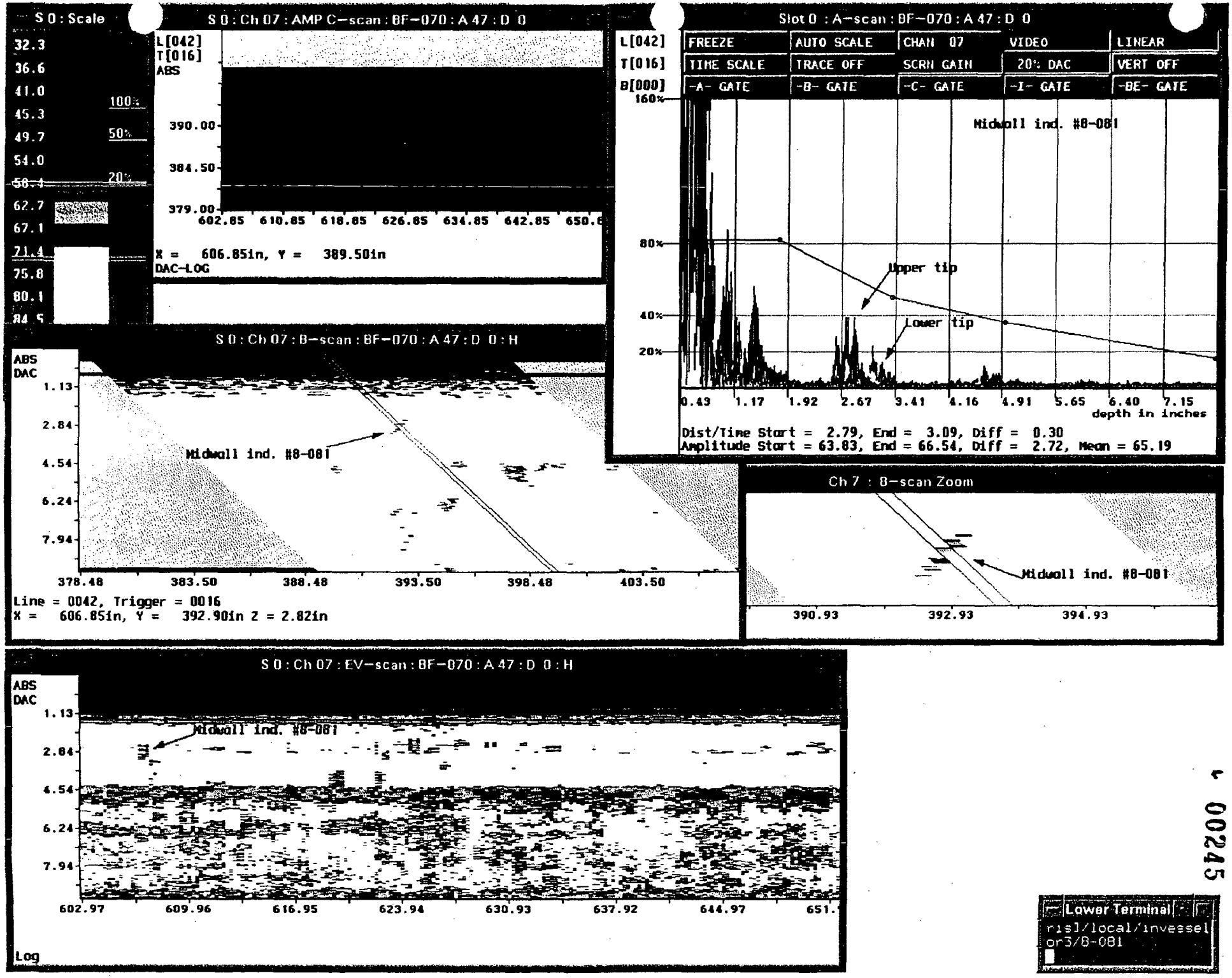
R1154
243 OF 276

. 00243

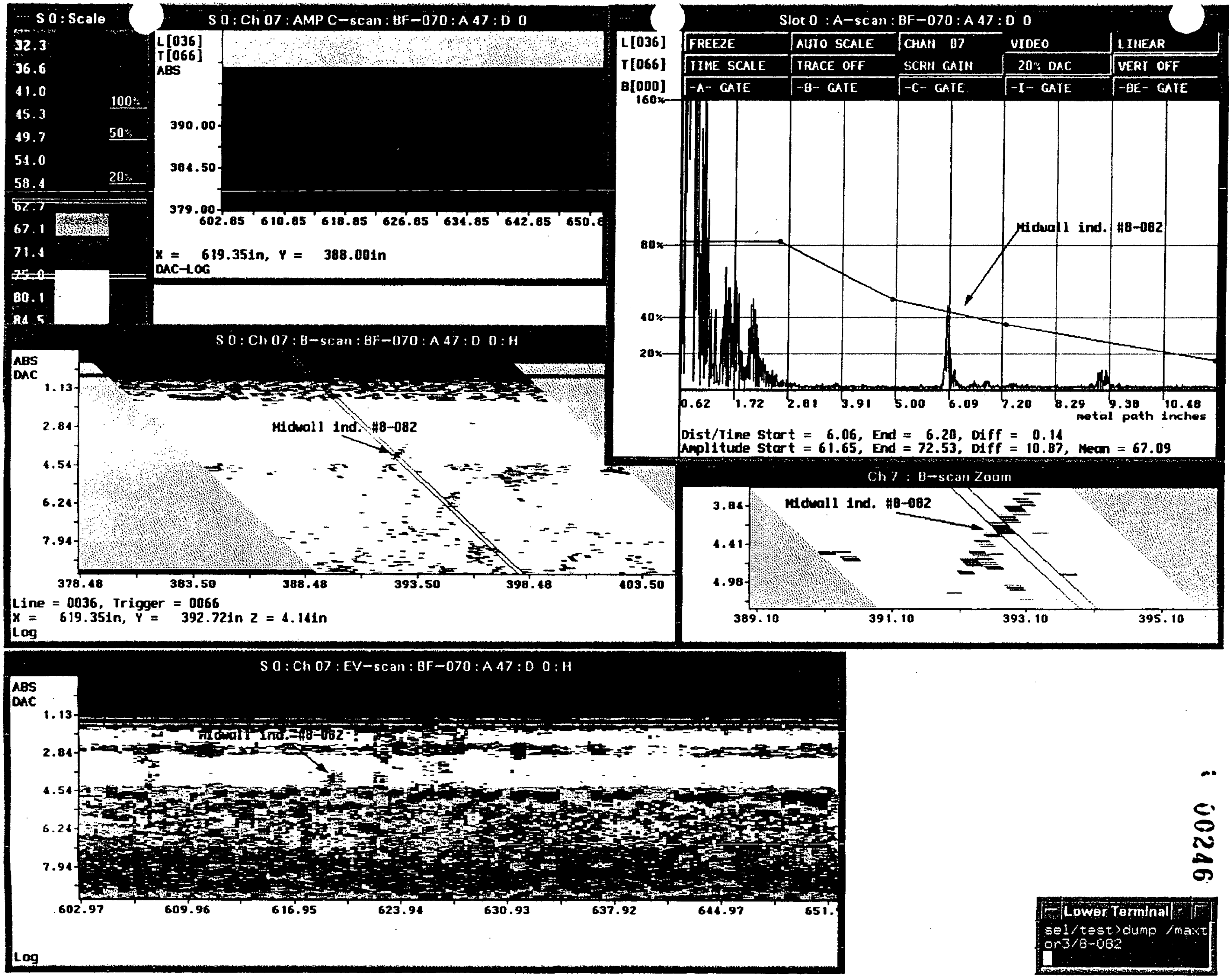


00244

R1154
244 of 276



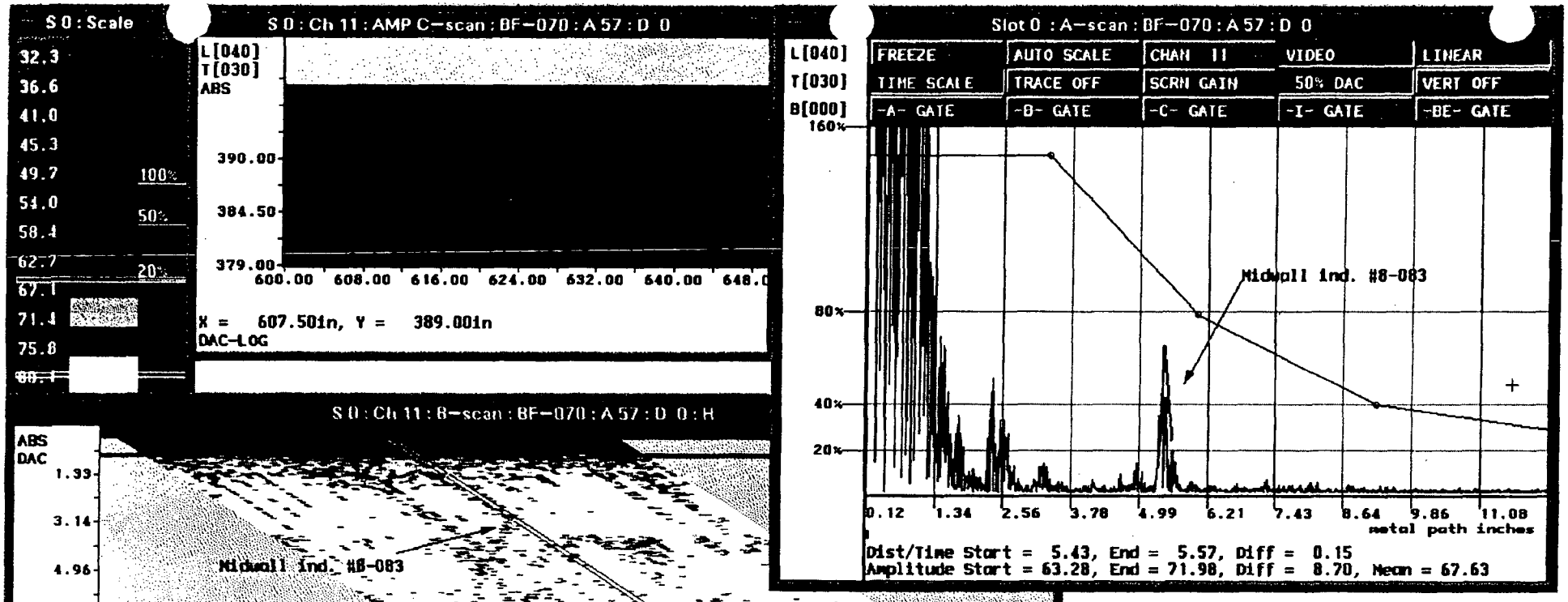
R1154
245 of 276
00245

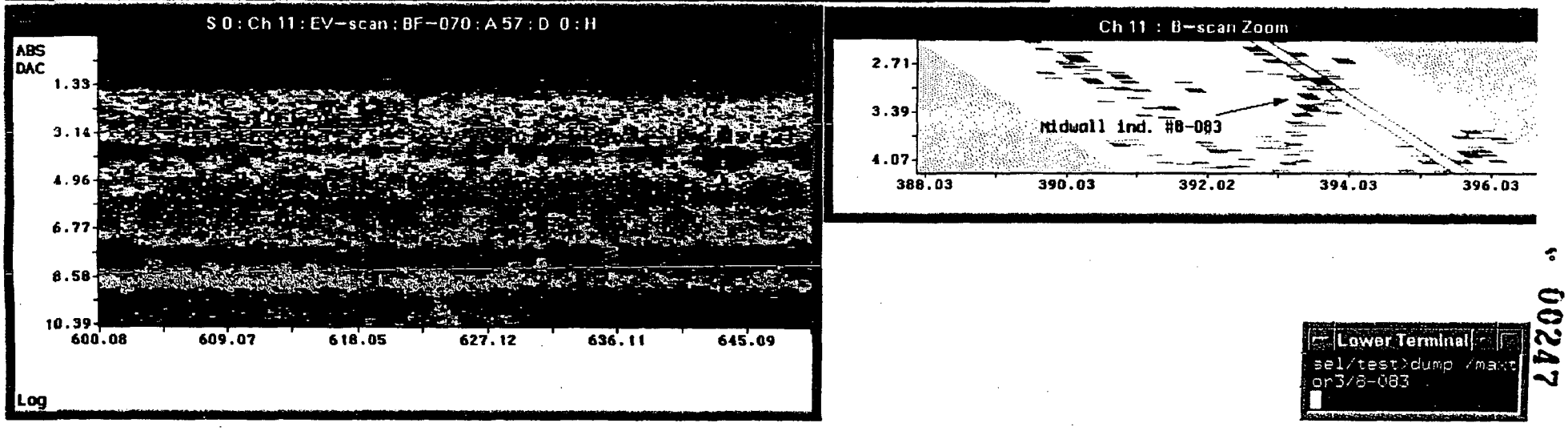


00246

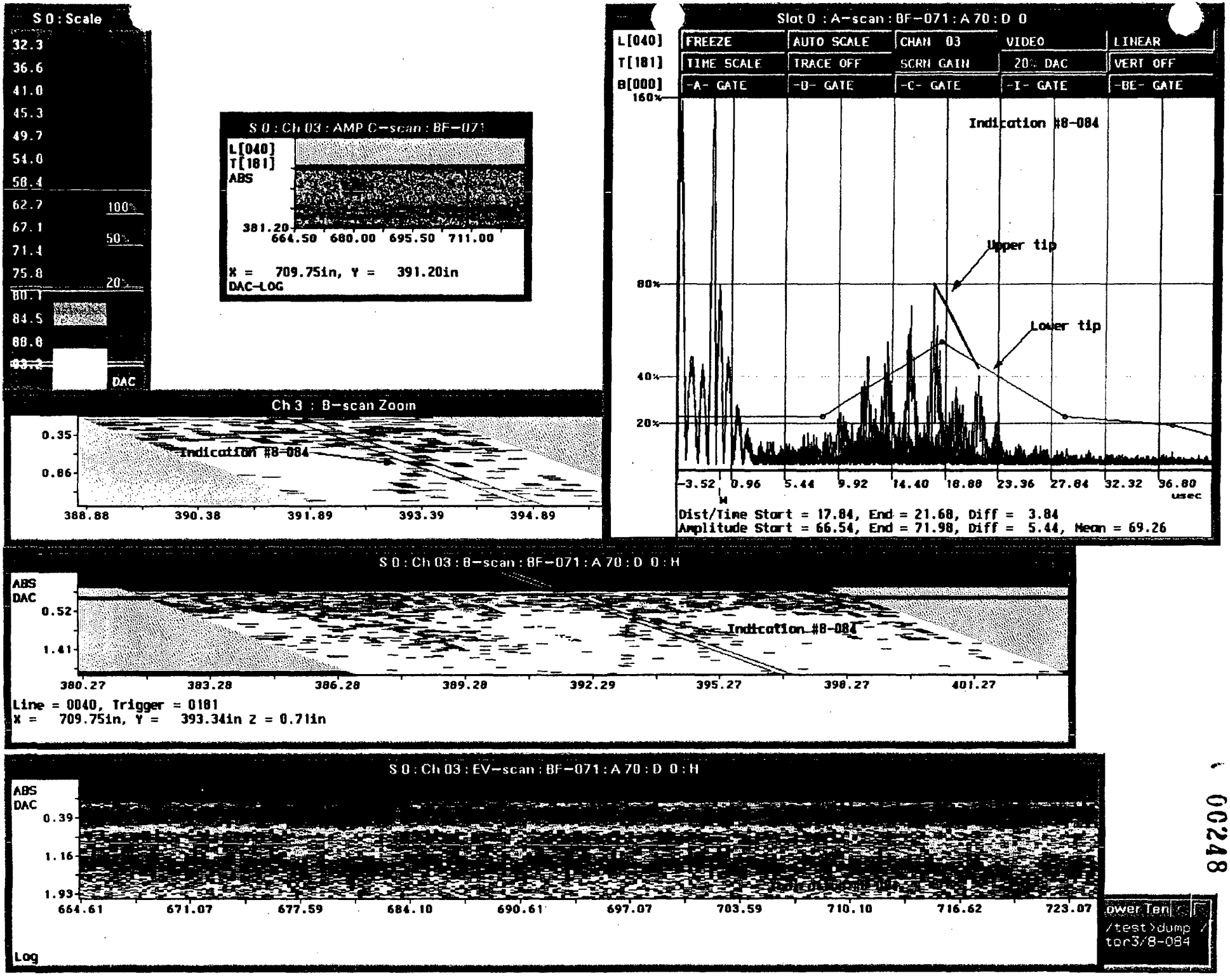
246 of 276

R1154

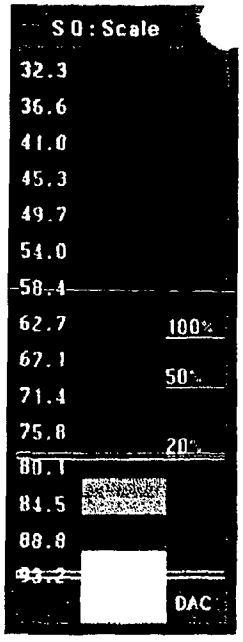


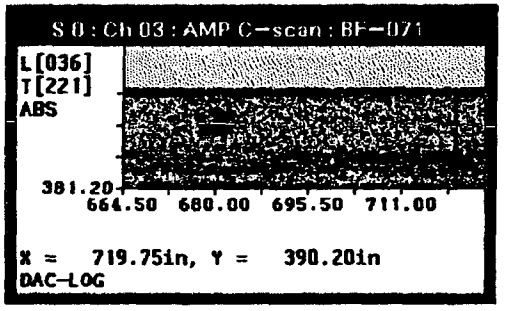


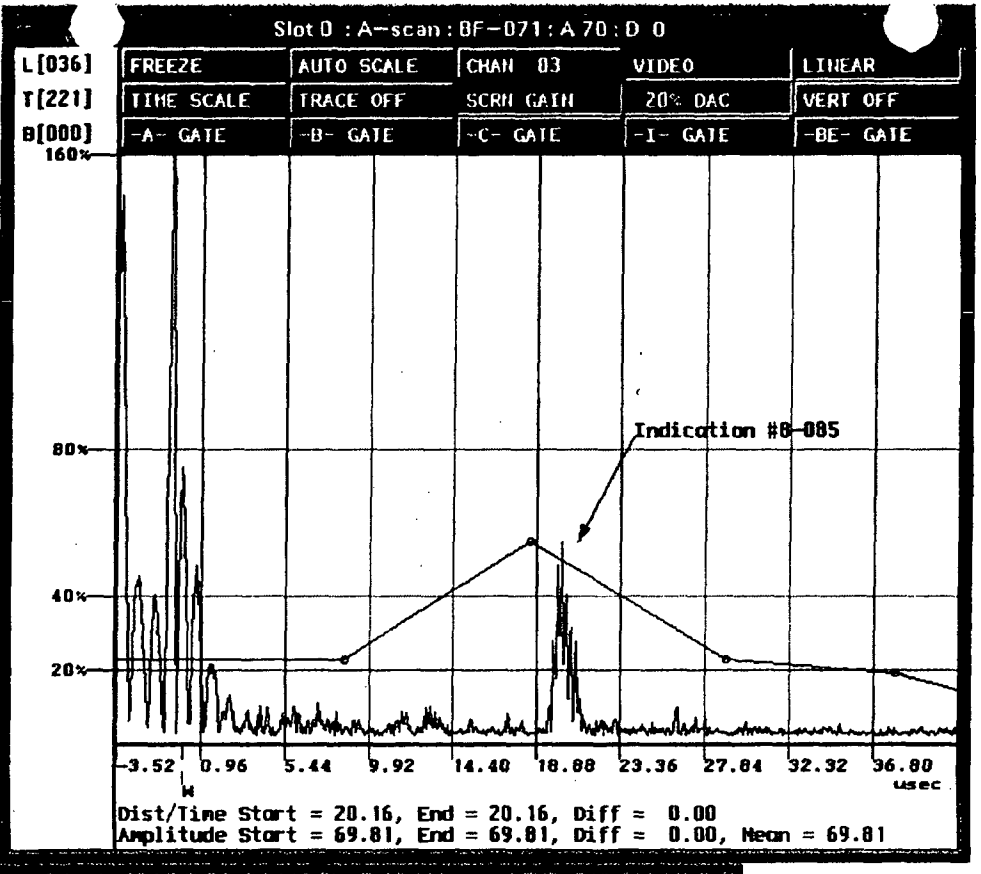
R1154
247 OF 276
00247

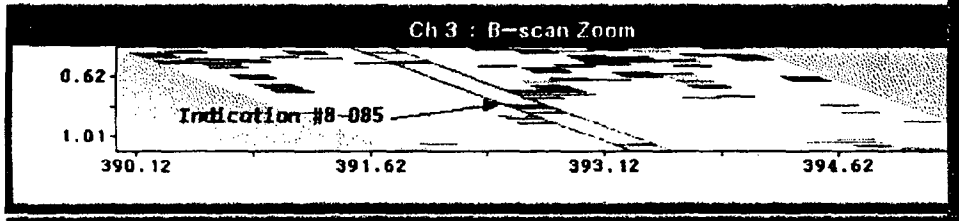


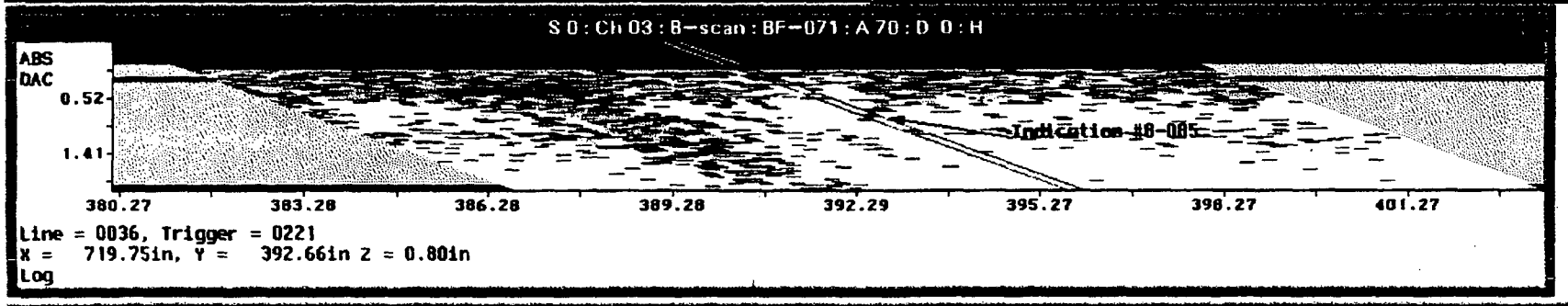
R1154
248 OF 276
00248

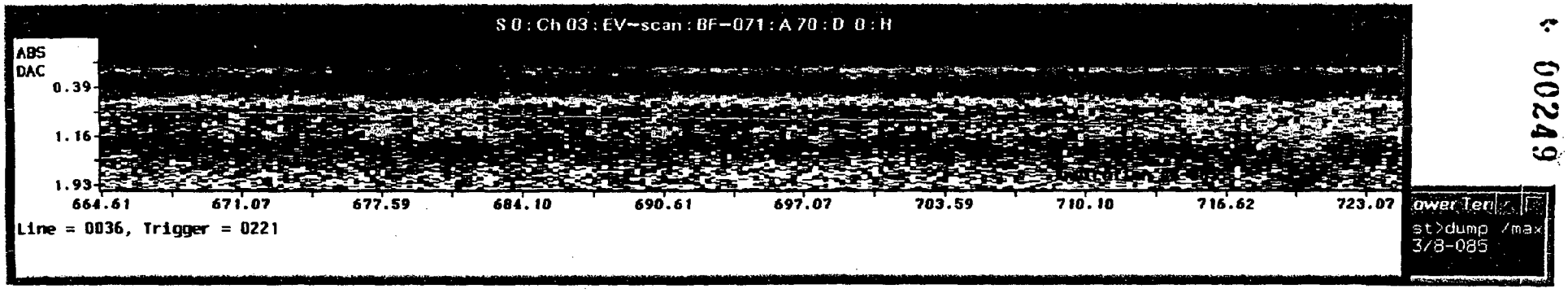


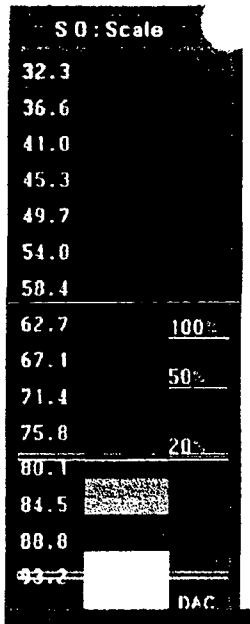


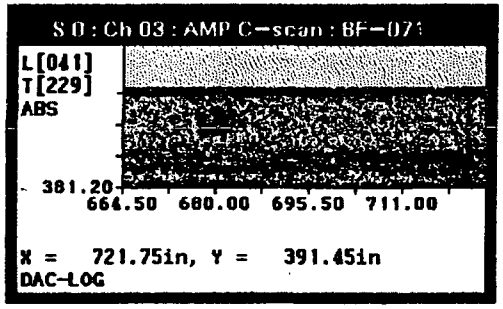


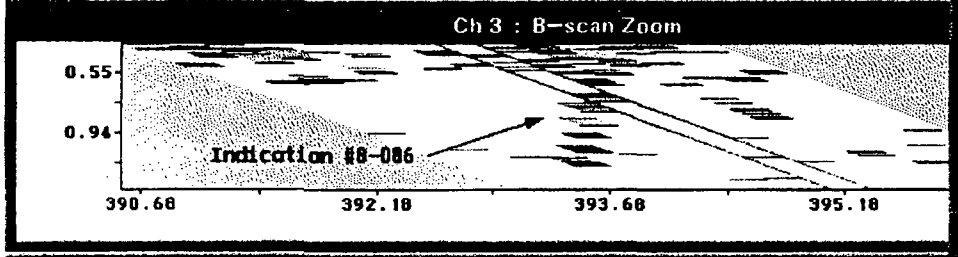


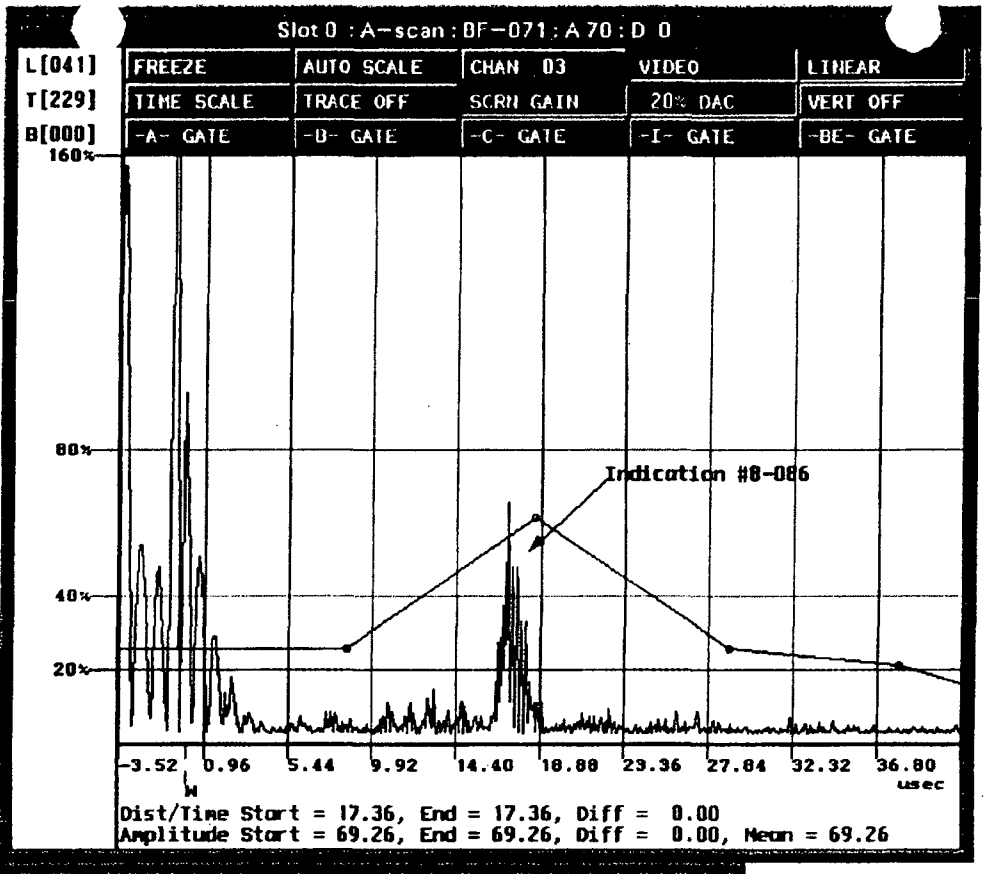


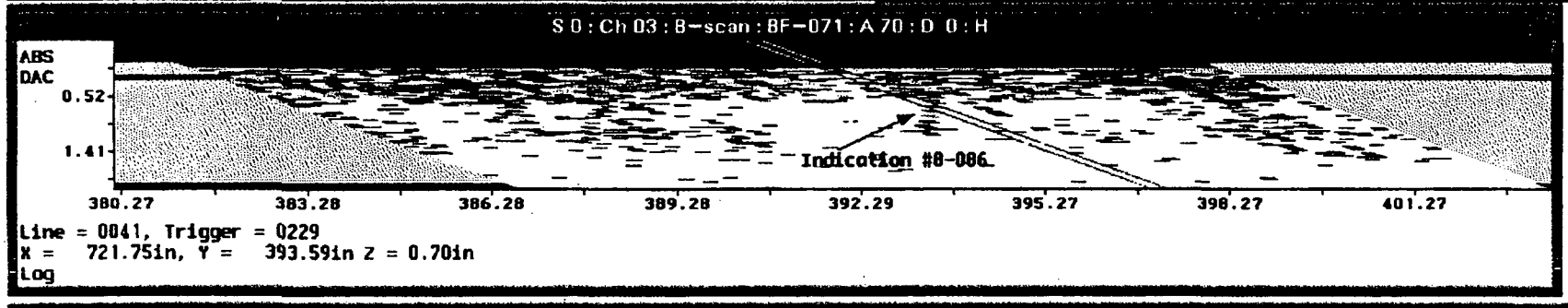


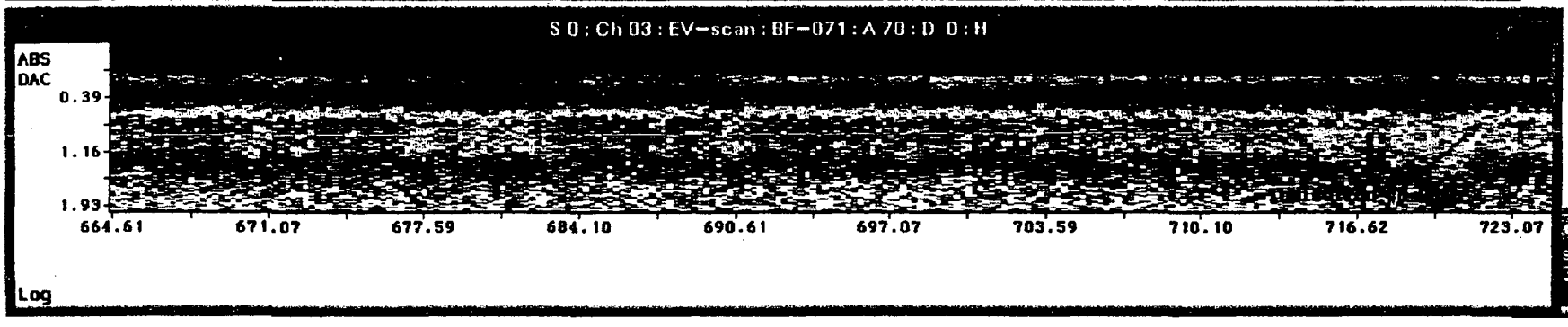






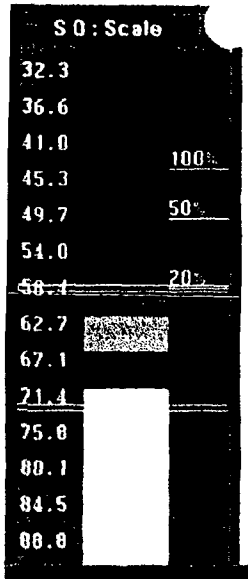


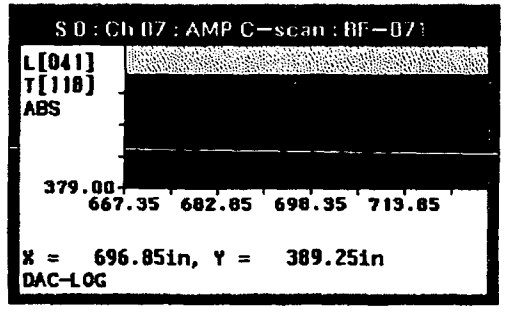


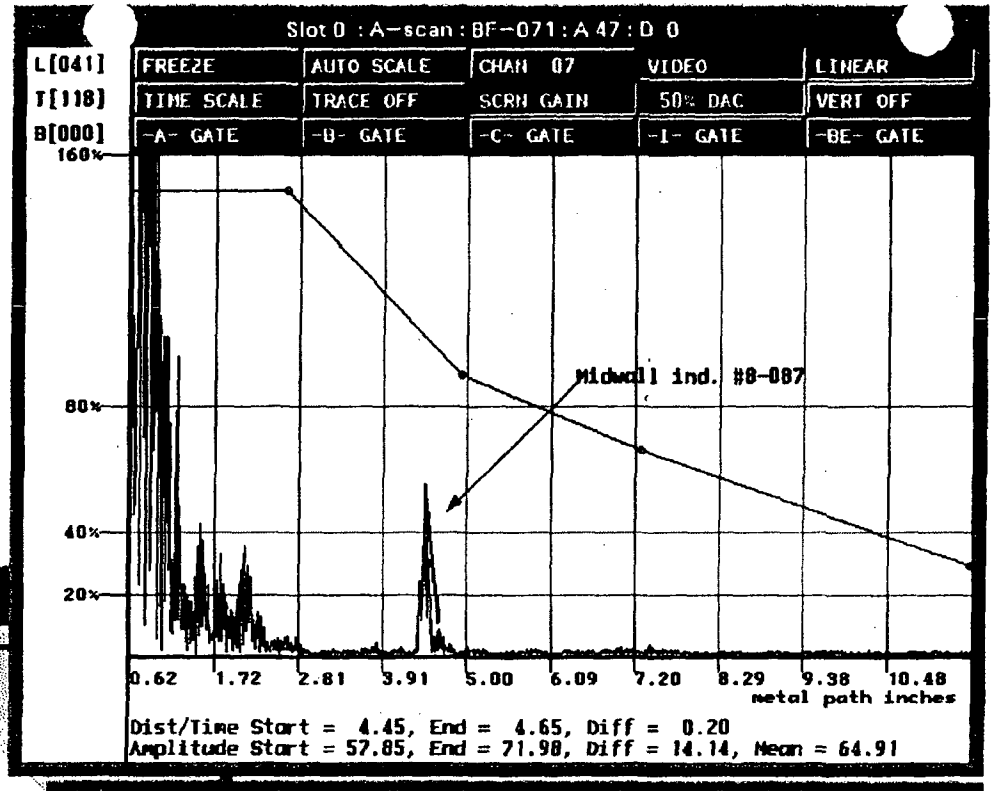


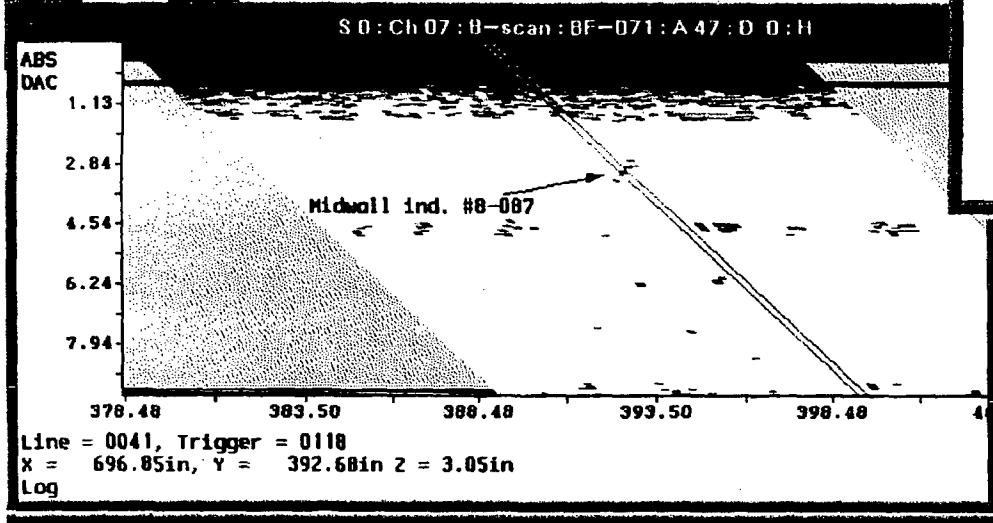
00250

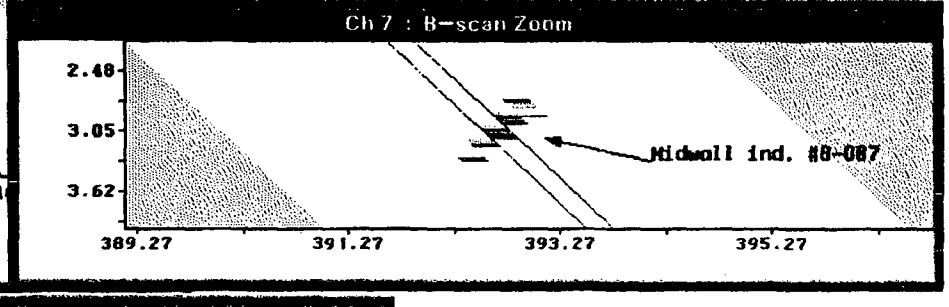
R1154
250 OF 274

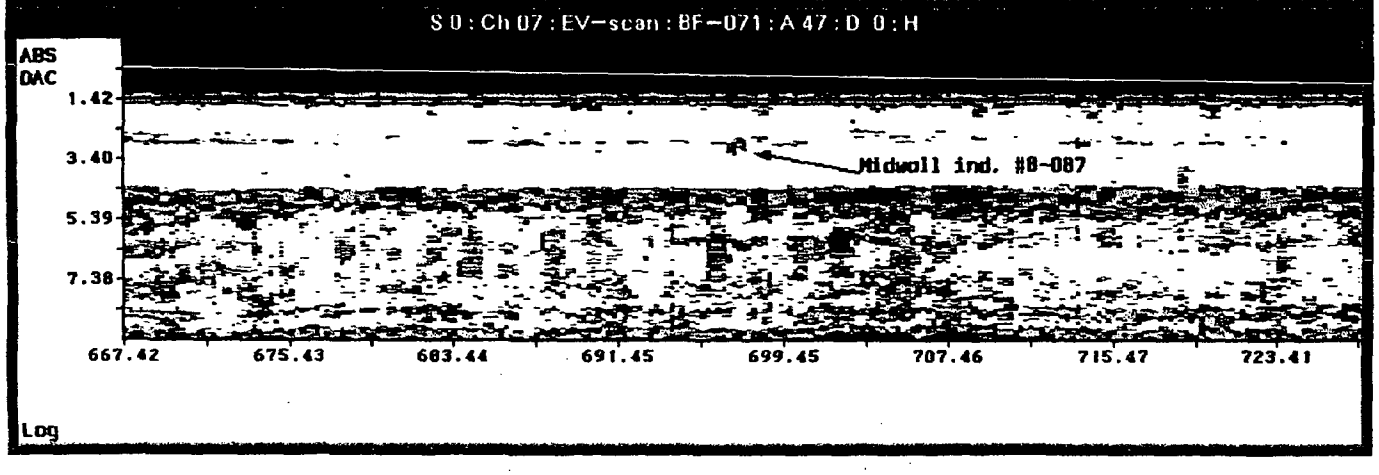


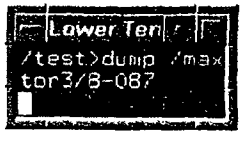




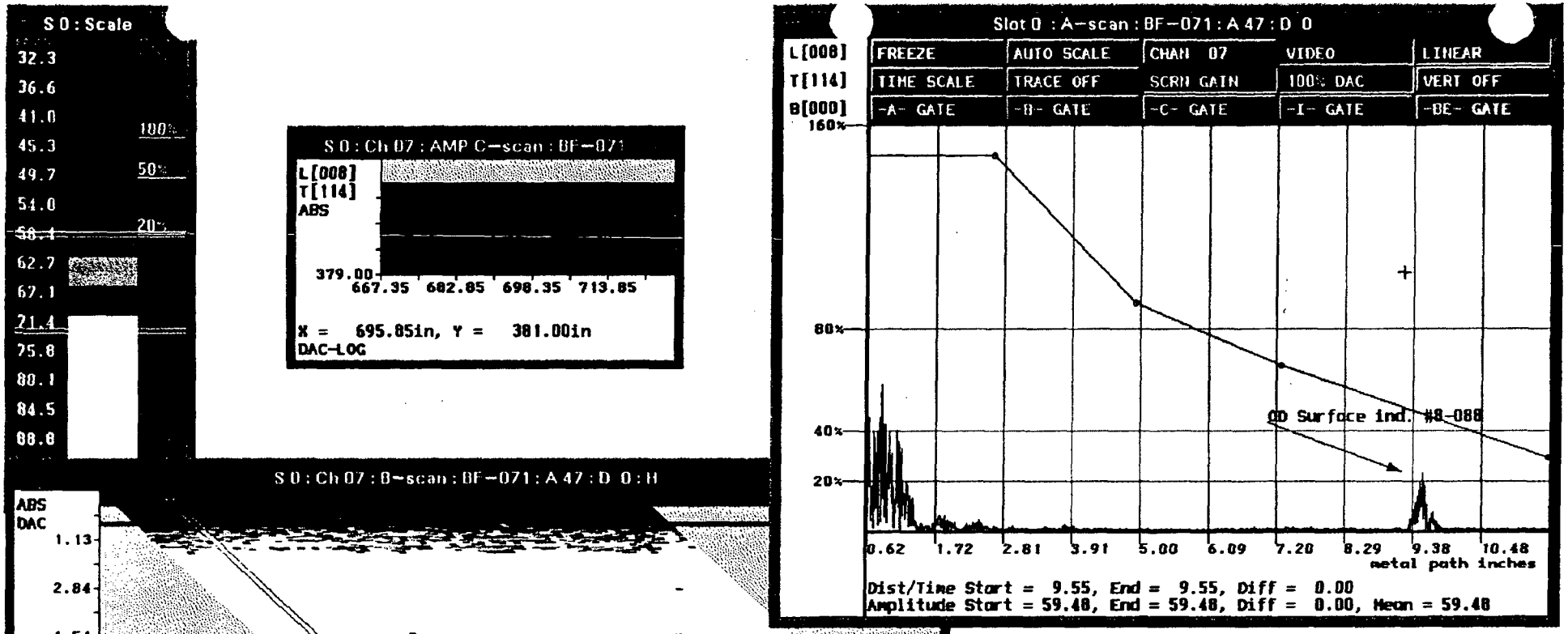




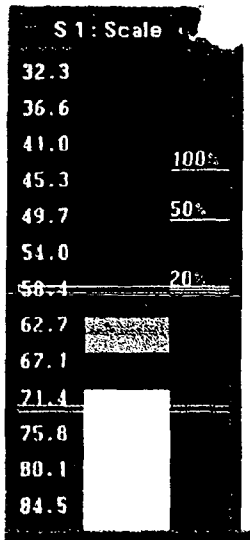


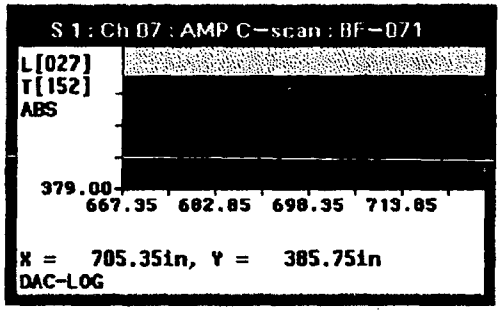


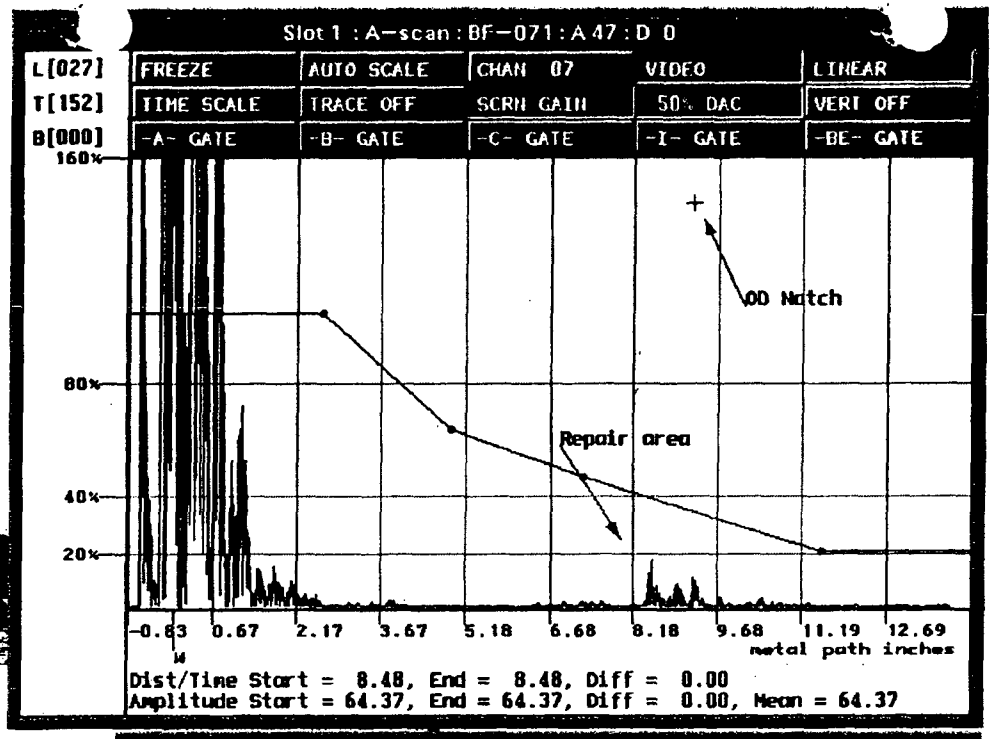
R1154
251 OF 276
00251

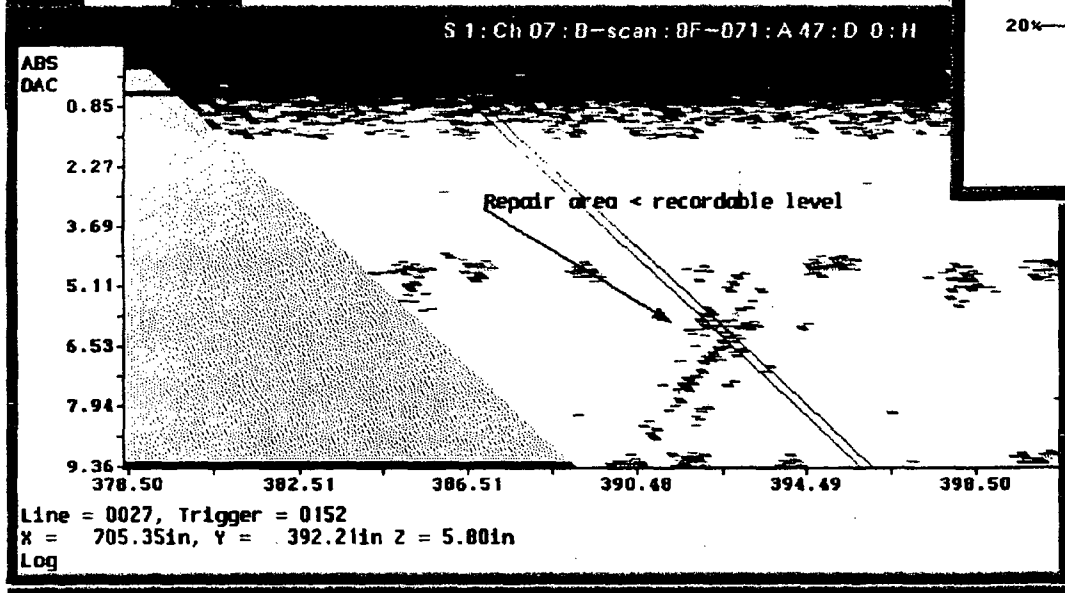


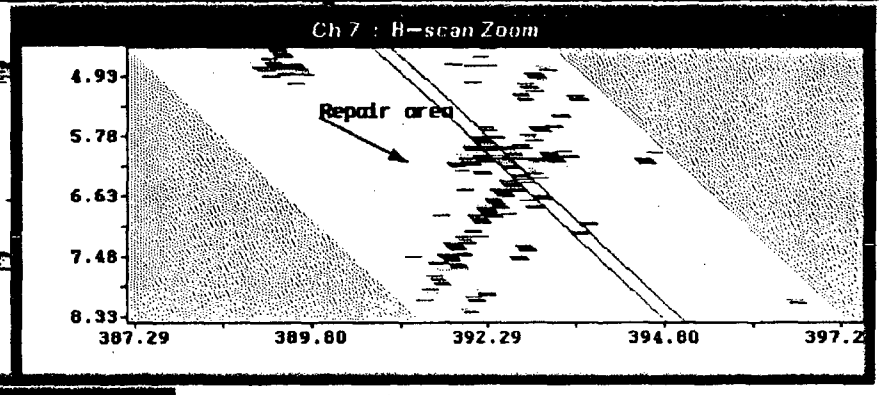
R1154
252 of 276
t 00252

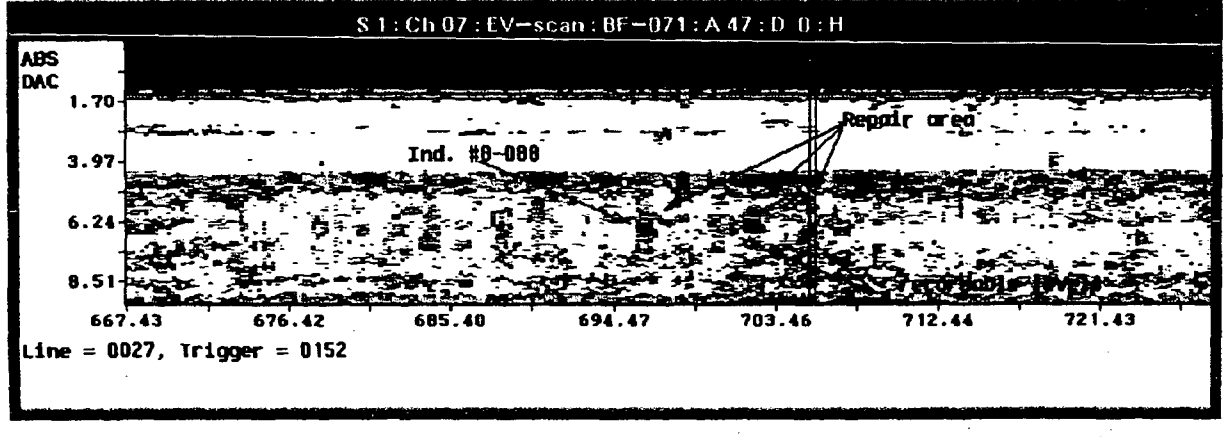






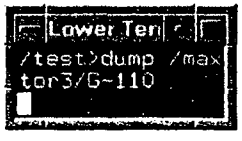




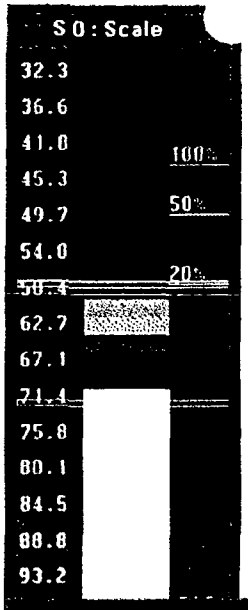


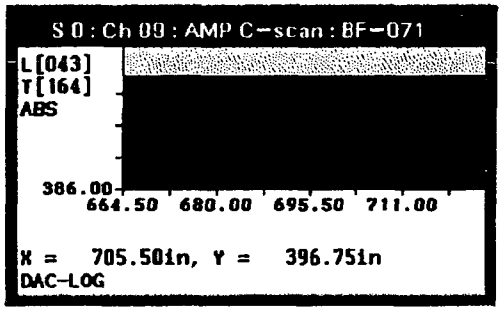
PRINT * G-110

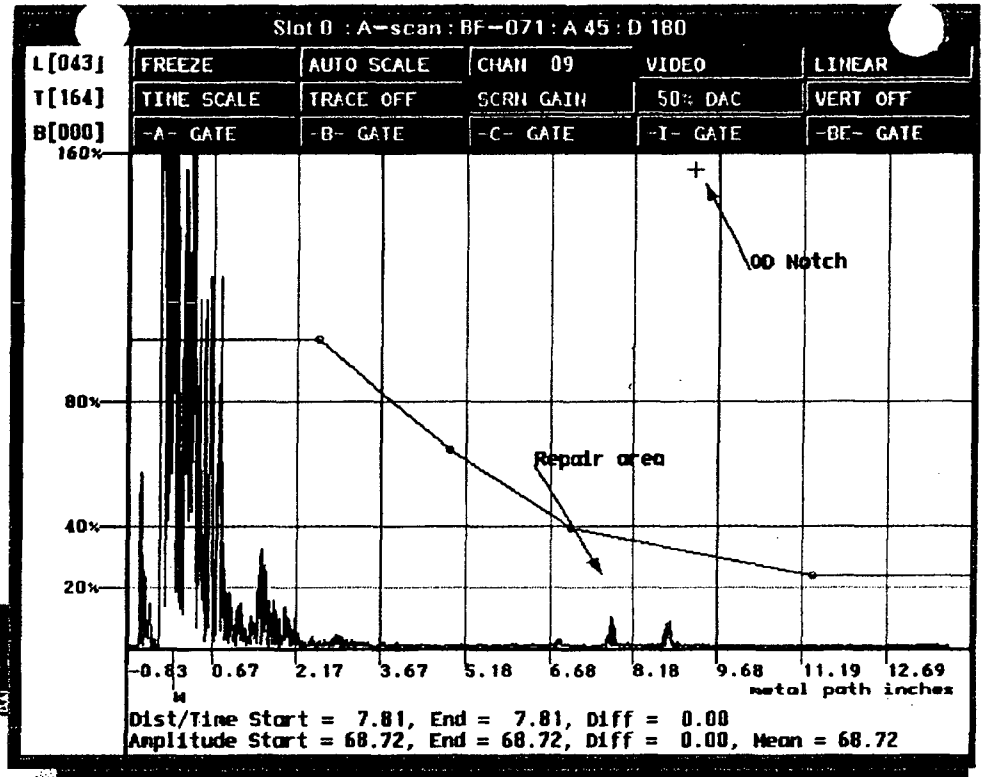
00253

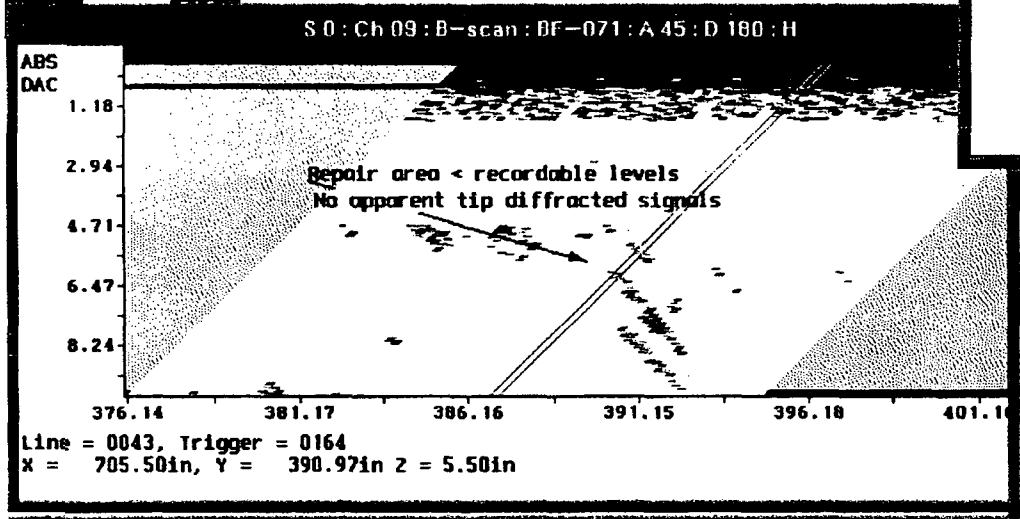


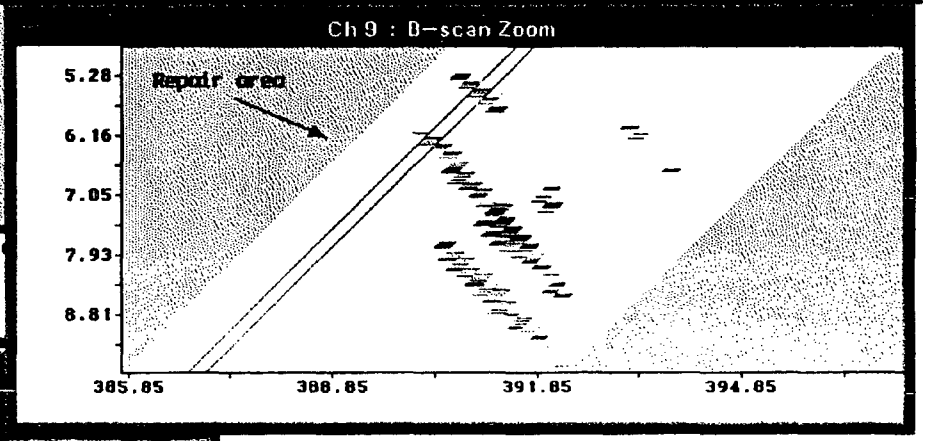
R1154
253 OF 276

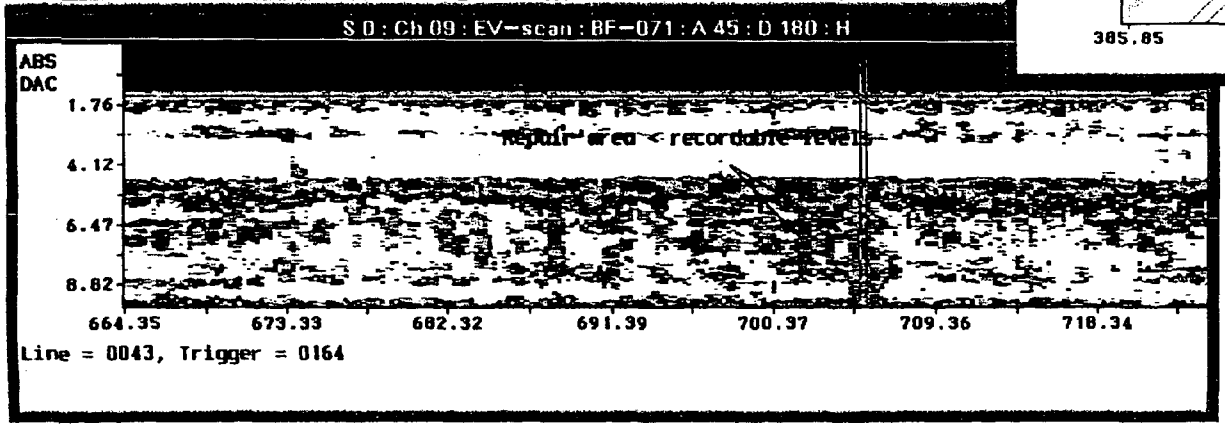




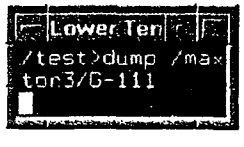




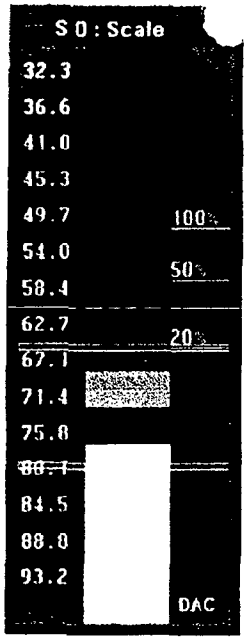


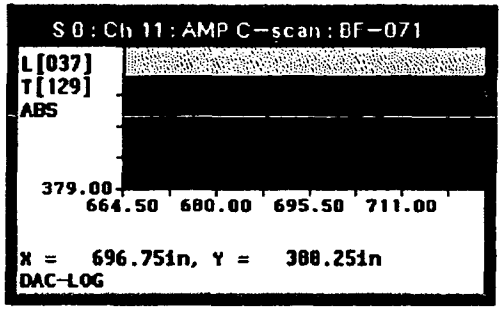


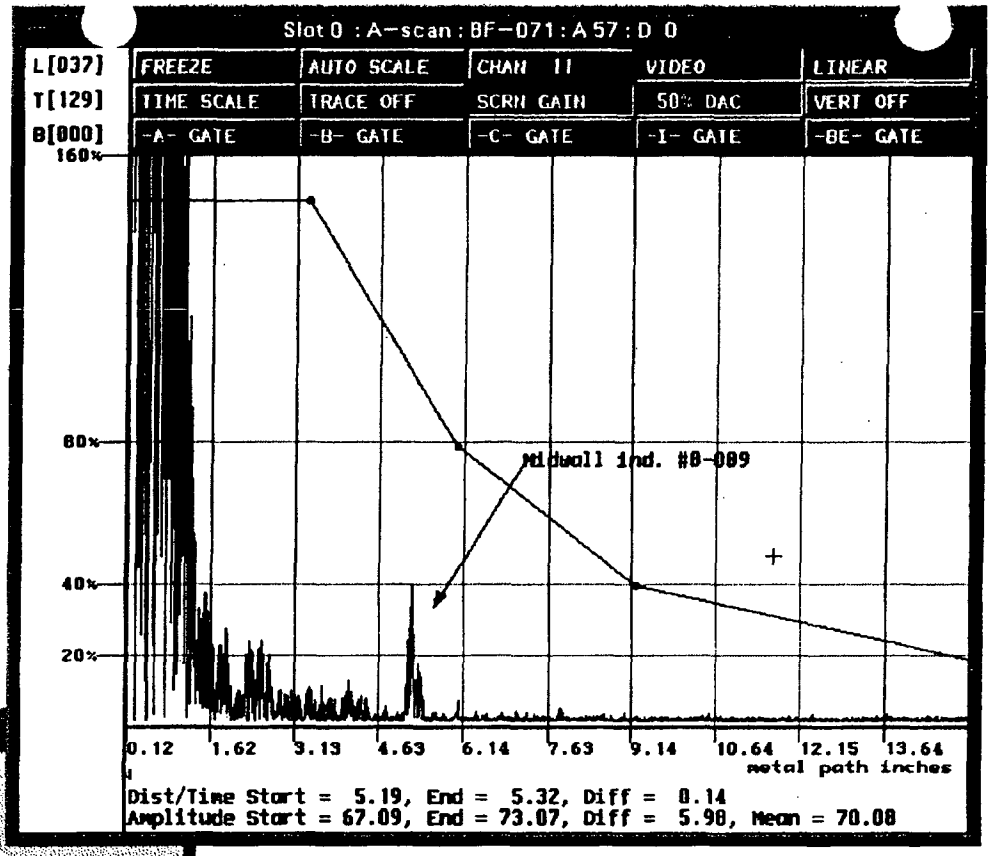
PRINT * G-111

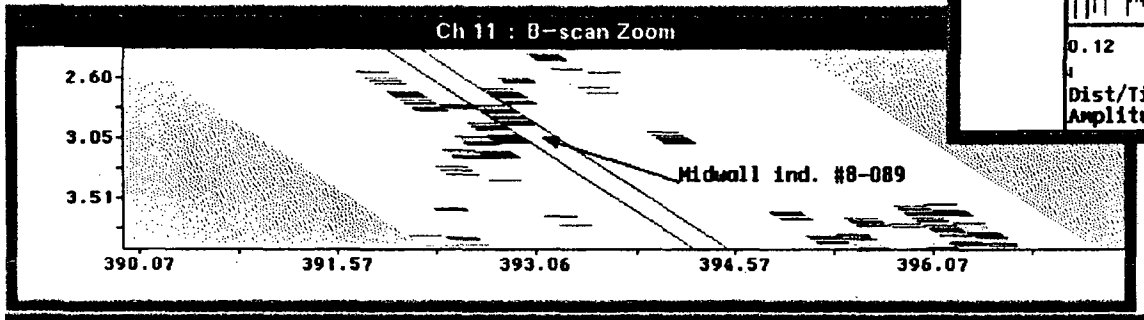


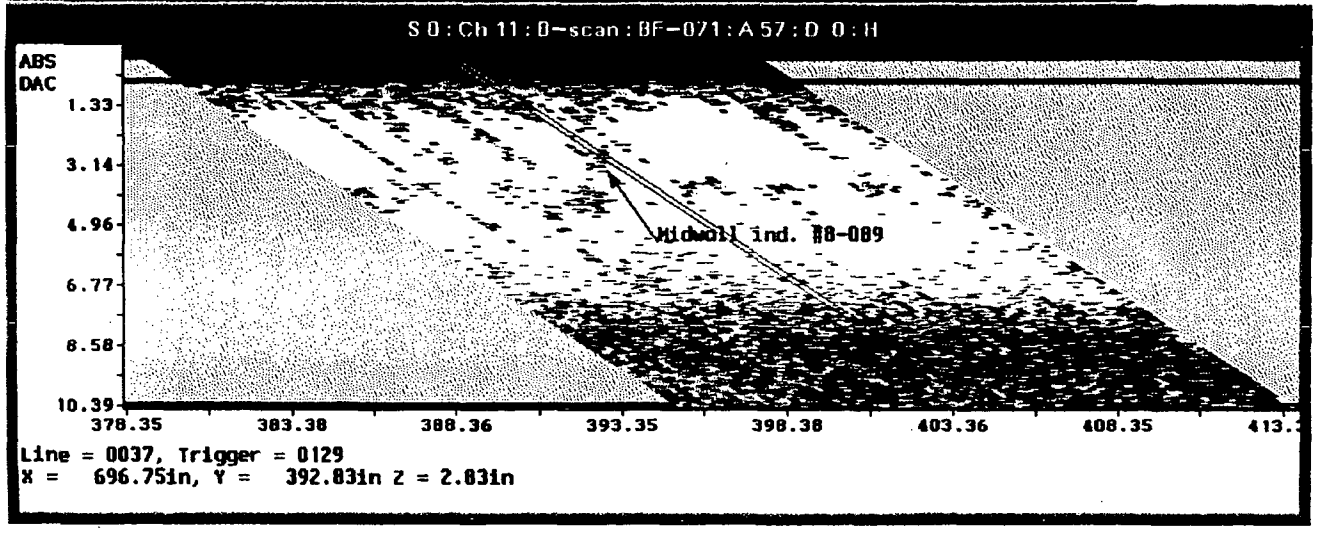
R1154
254 OF 276
00254

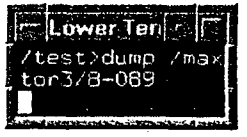






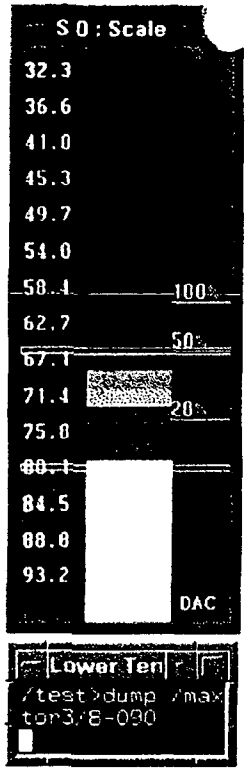


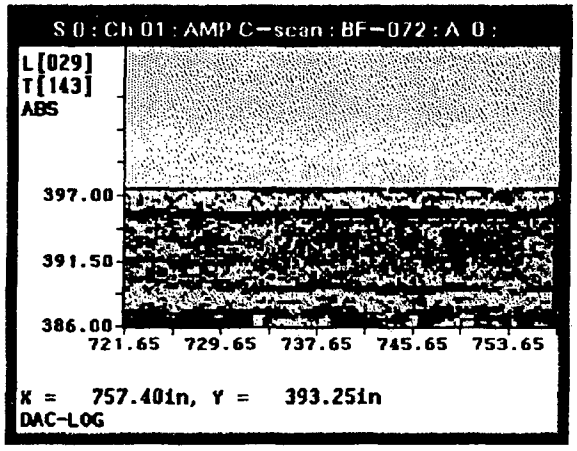


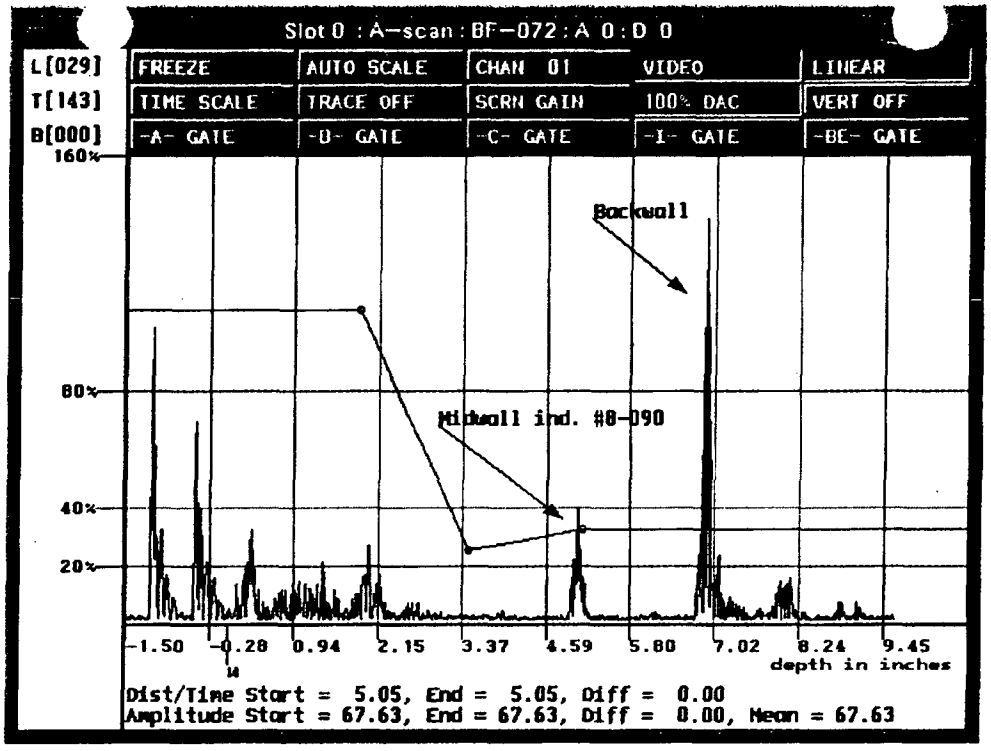


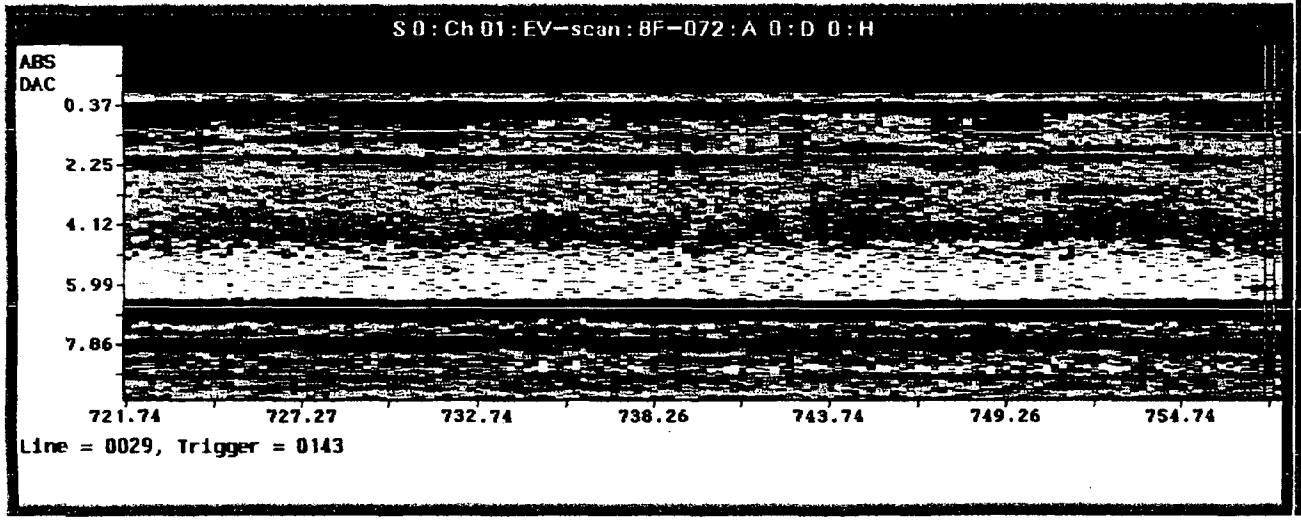
00255

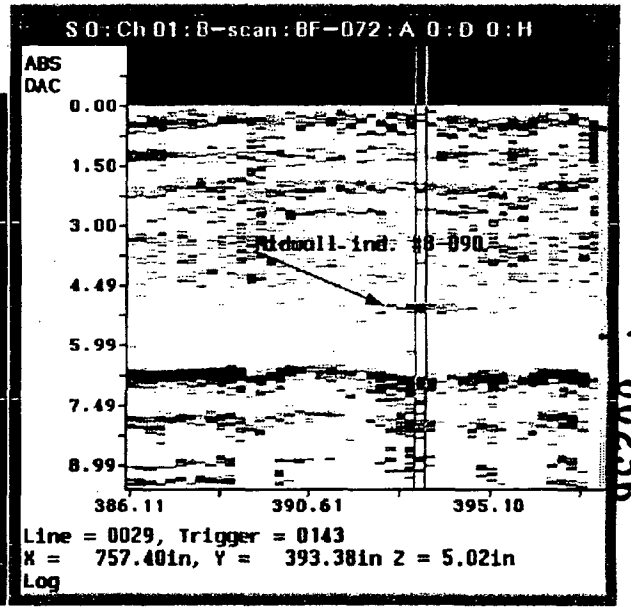
R1154
255 of 276





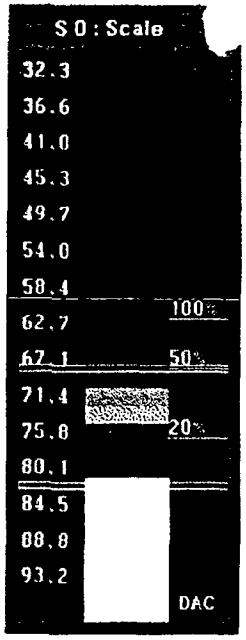


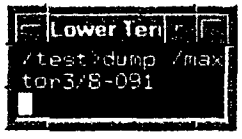


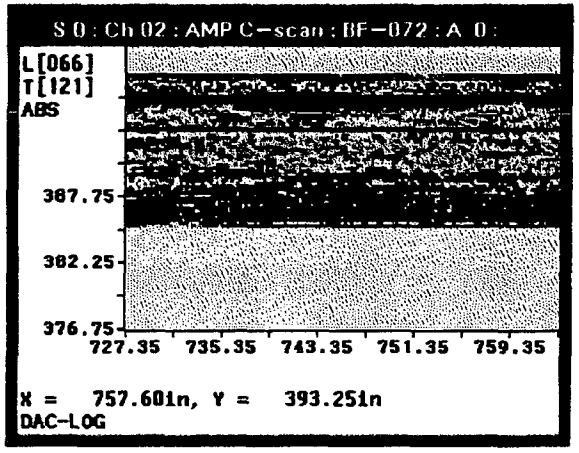


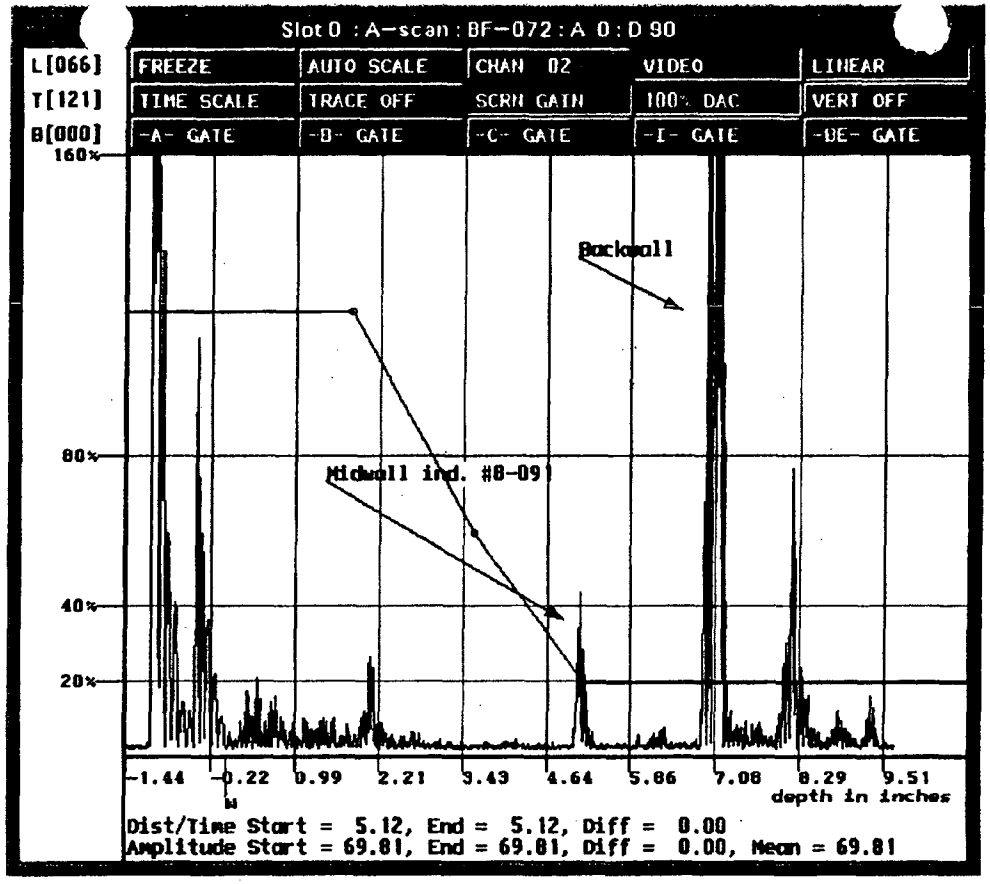
00256

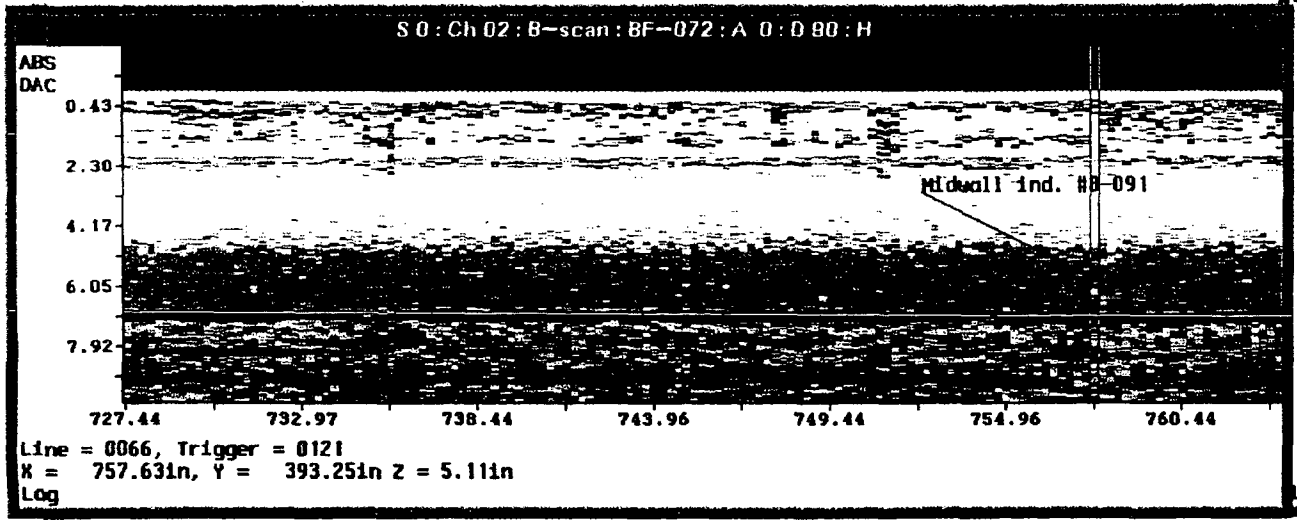
R1154
256 of 276

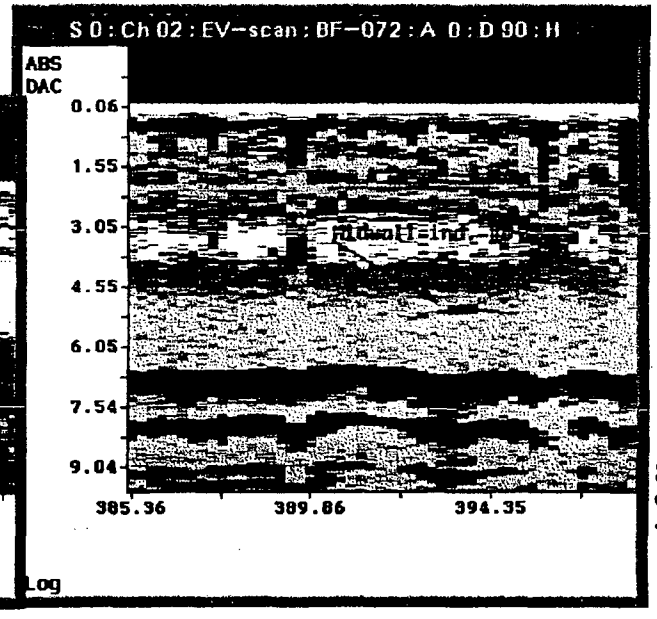


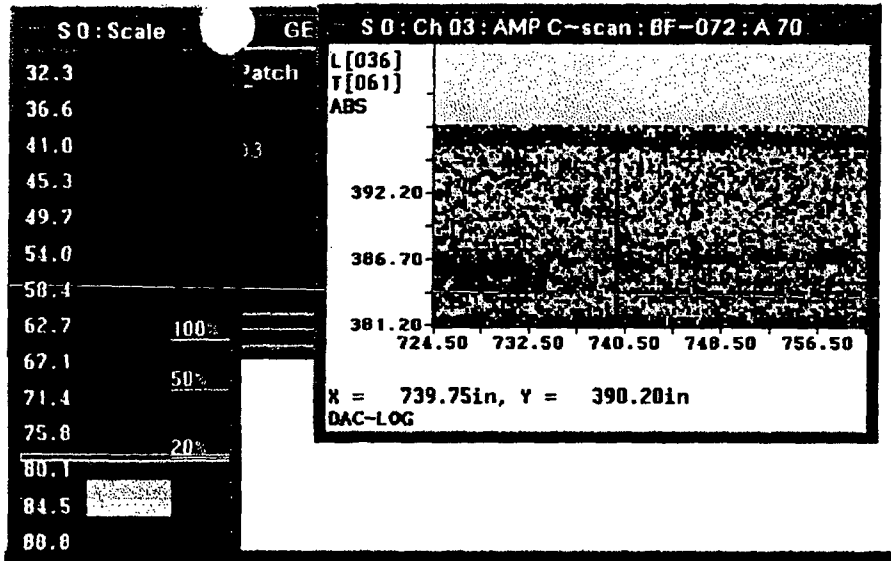


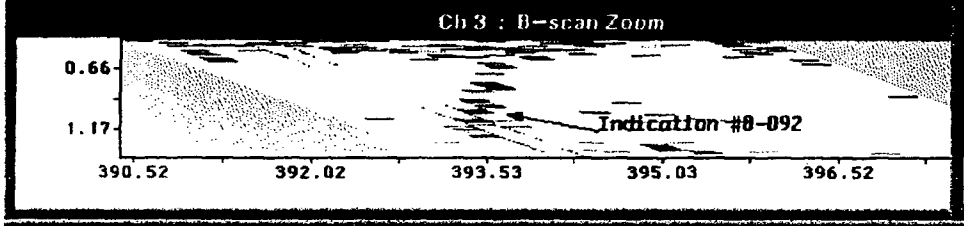


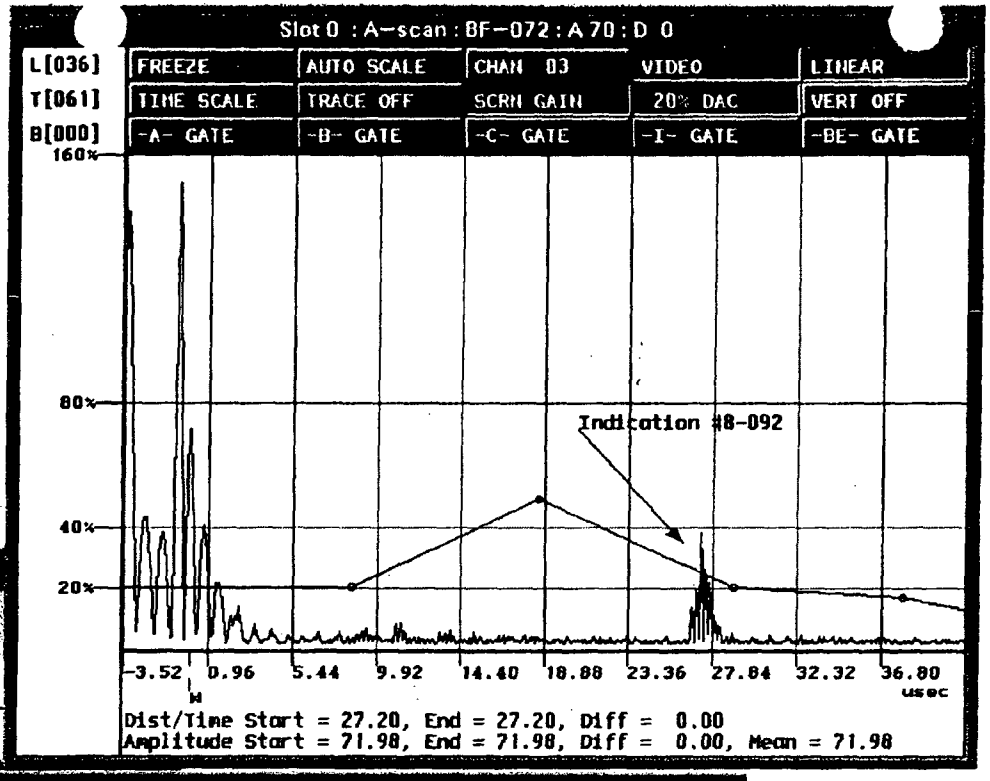


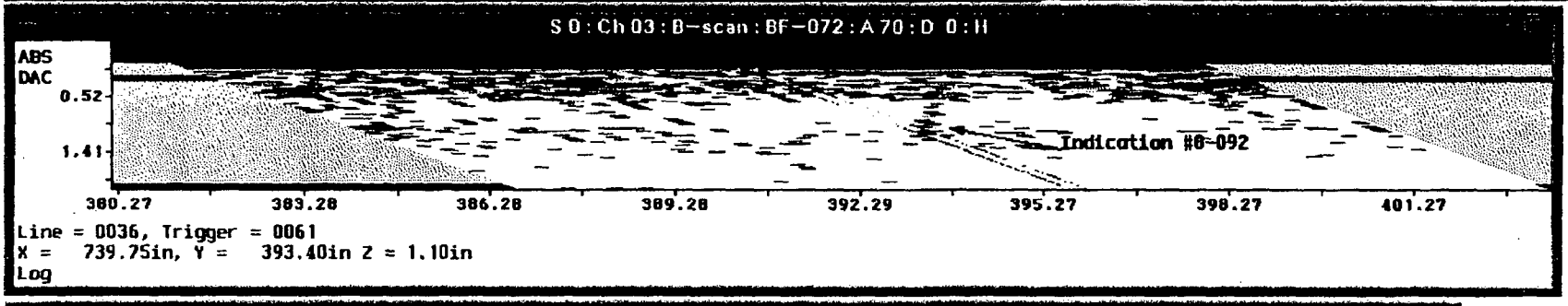


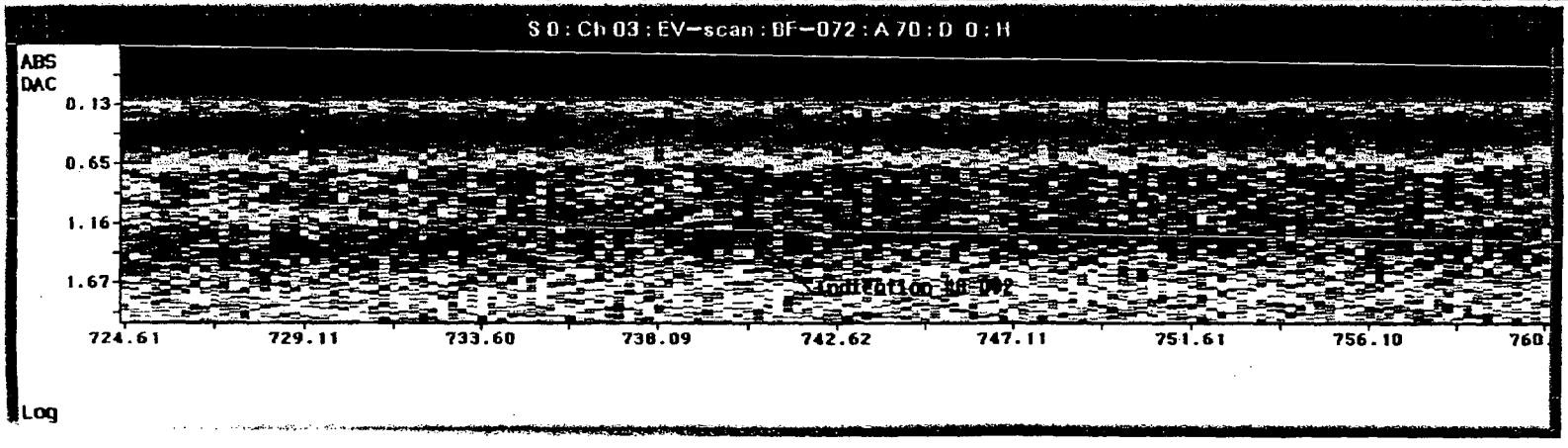


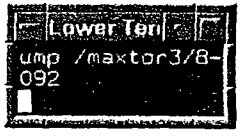




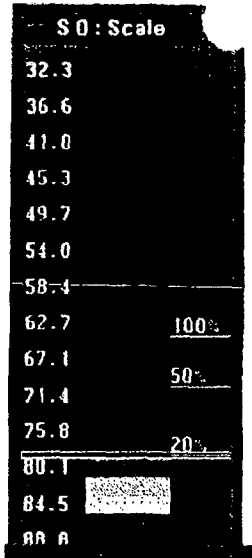


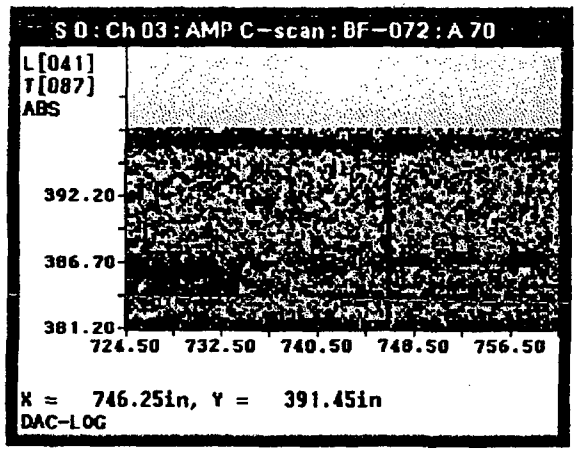


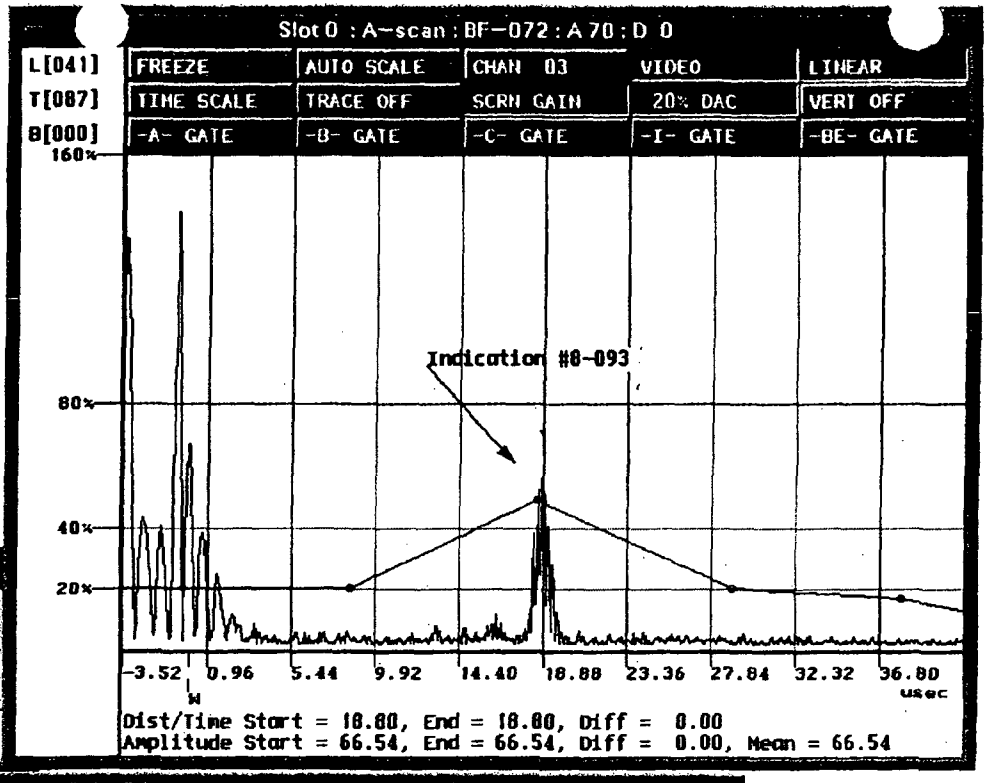


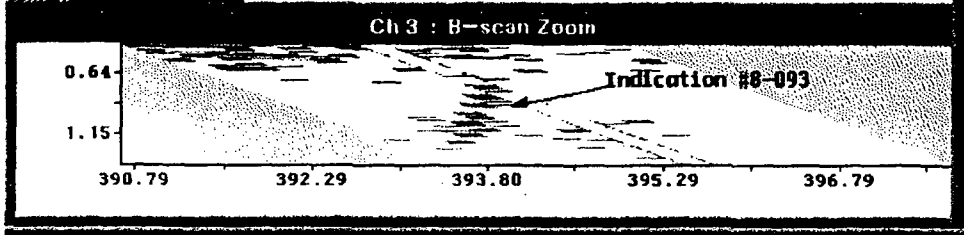


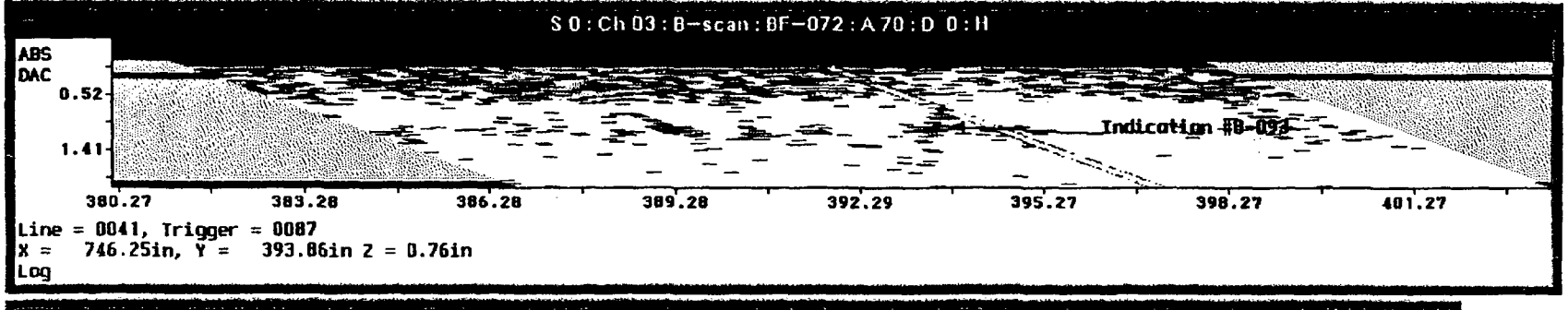
R11154
258 of 276
00258

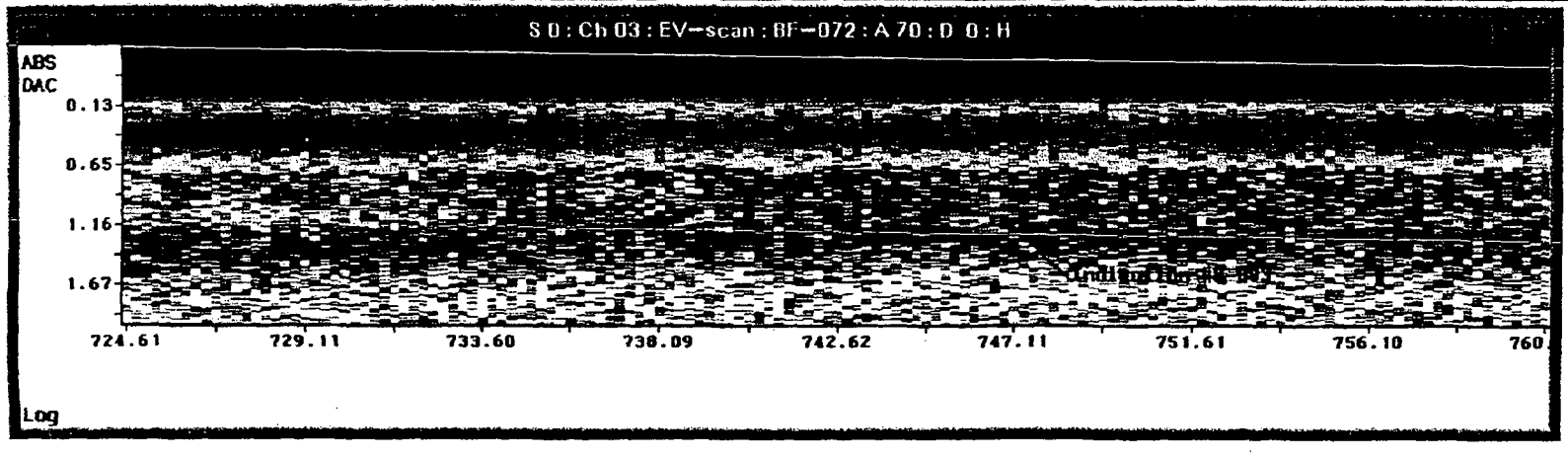


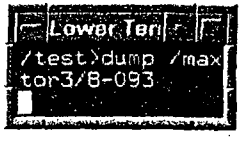




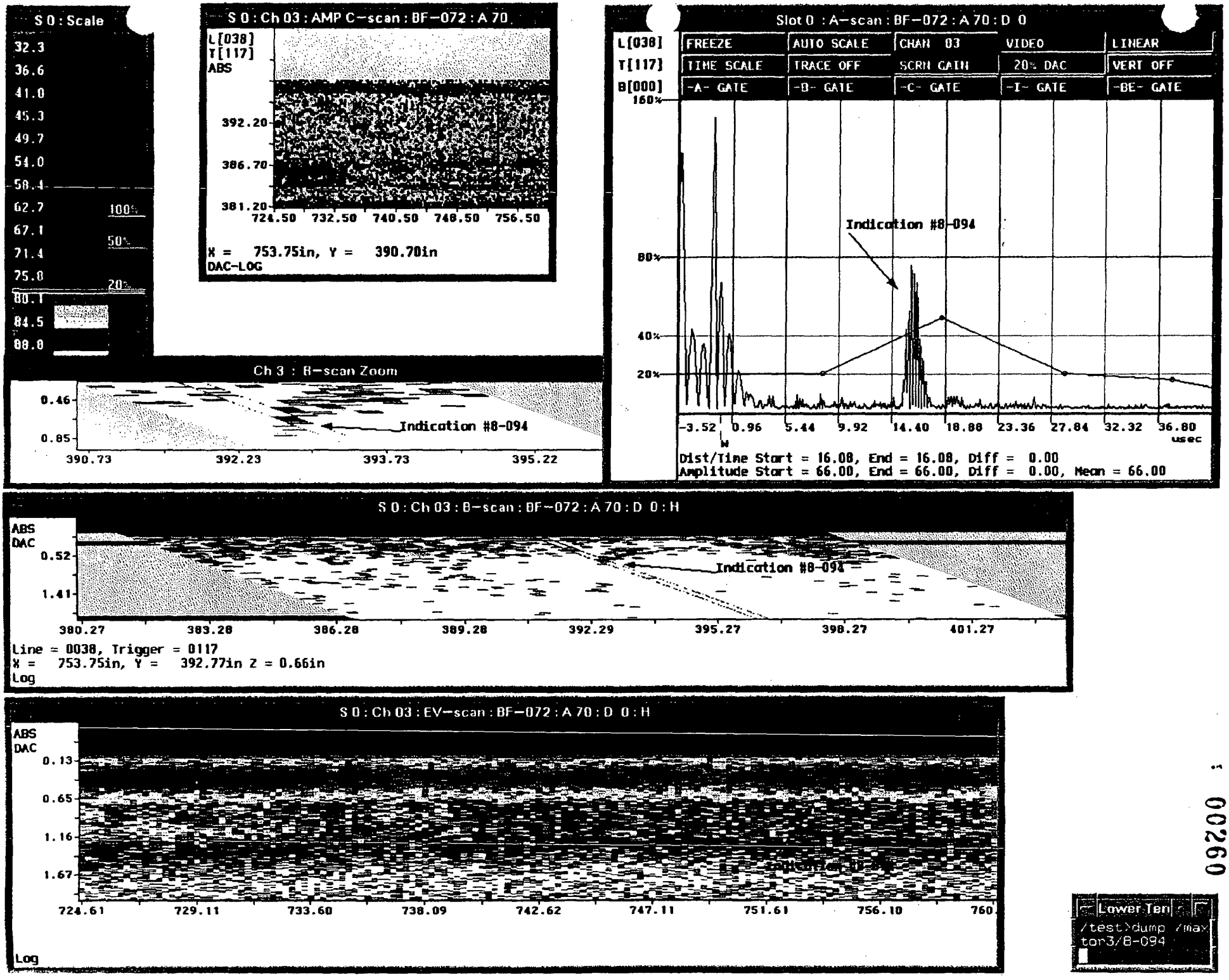




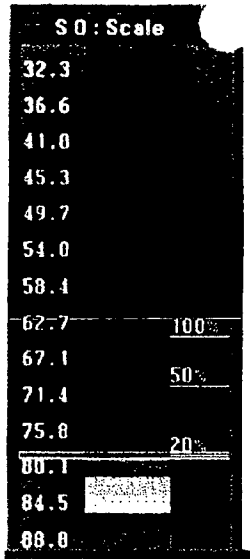


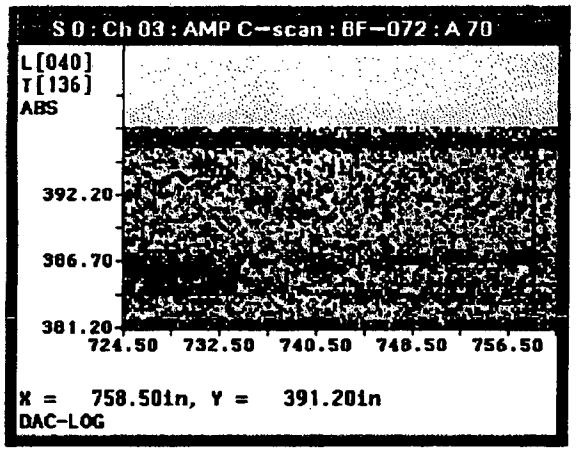


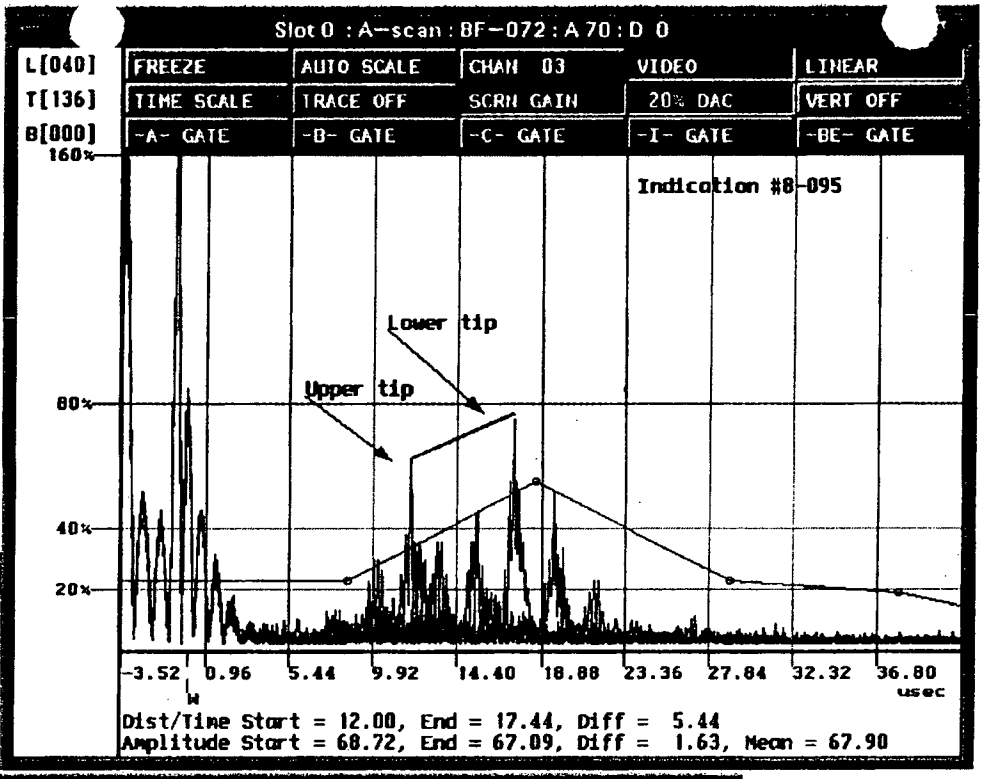
R1154
259 OF 276
: 00259

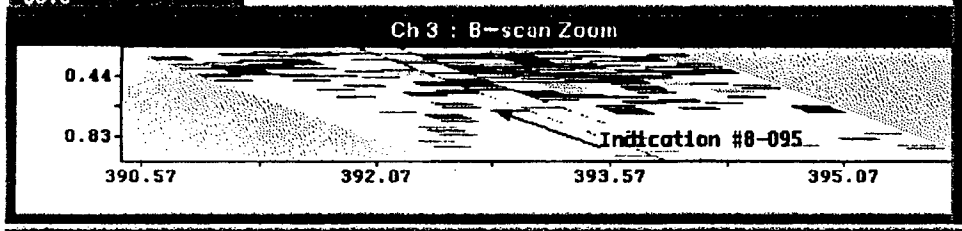


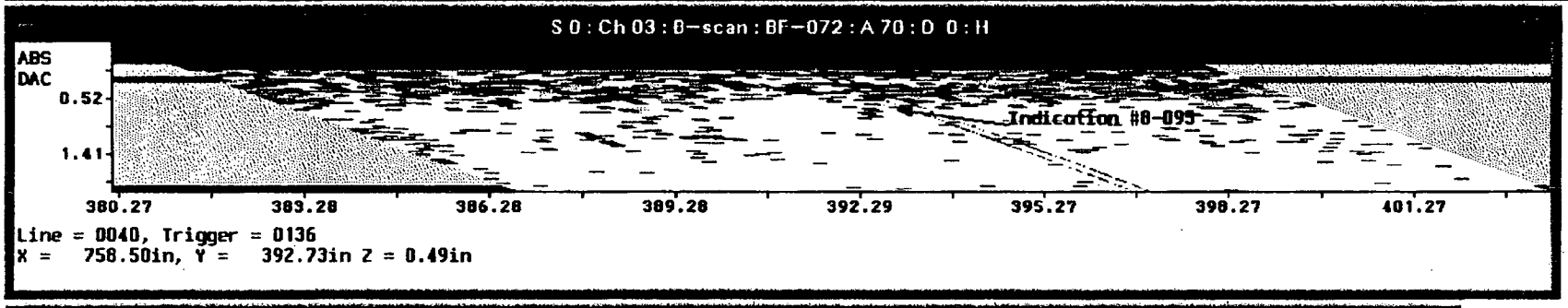
R1154
260 OF 276
00260

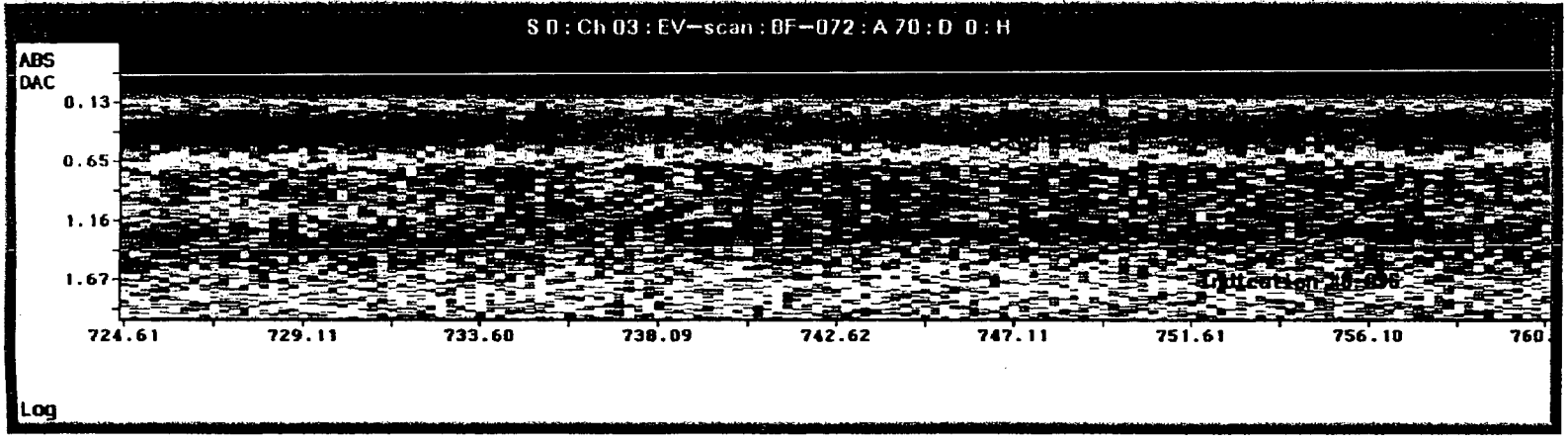






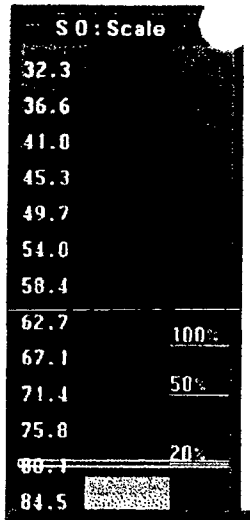


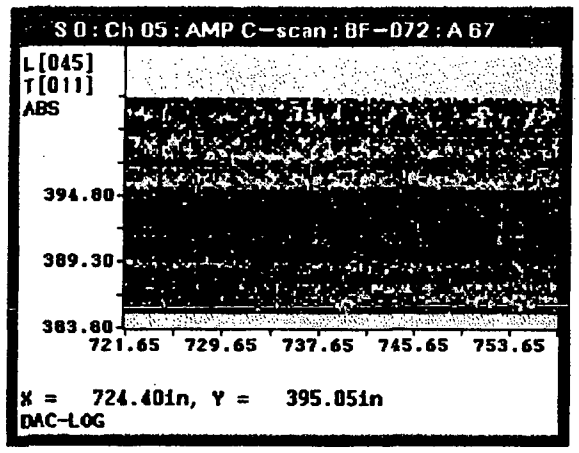


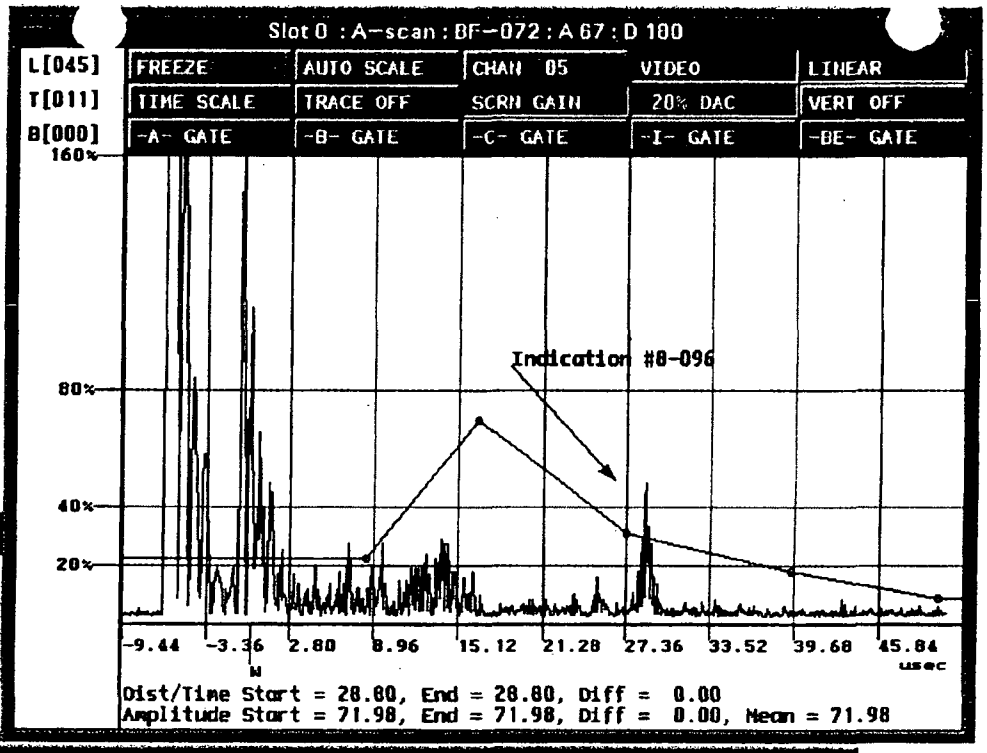


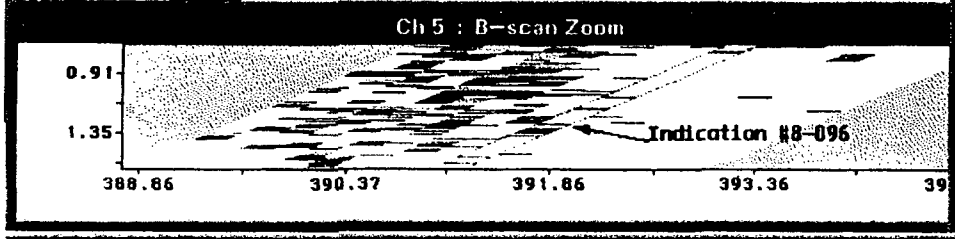
00261

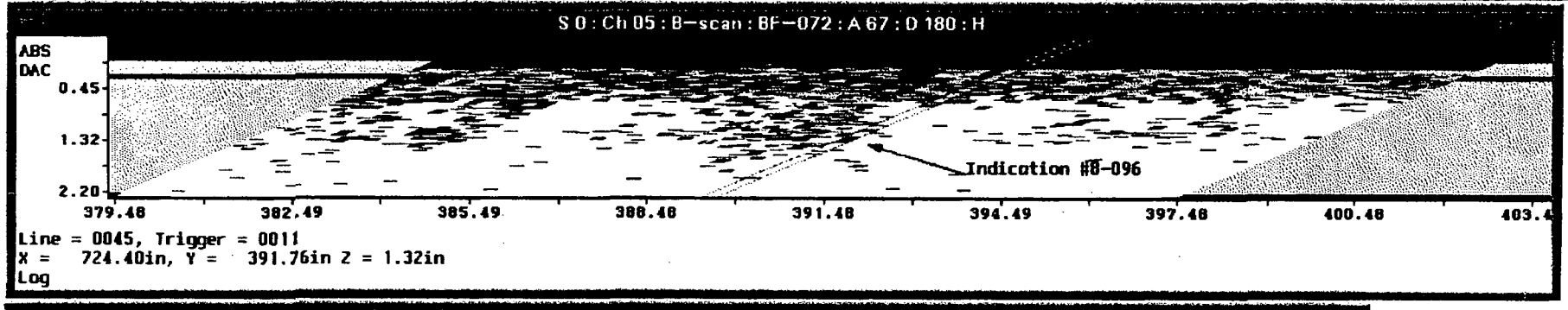
21154
261 of 276

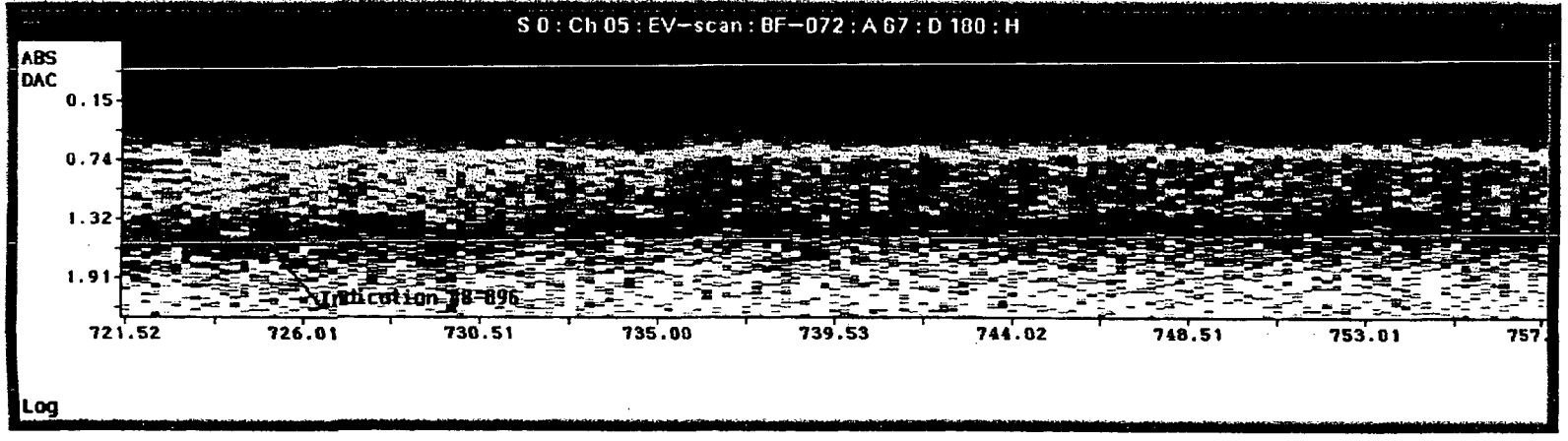


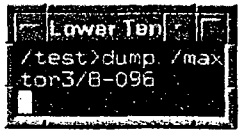






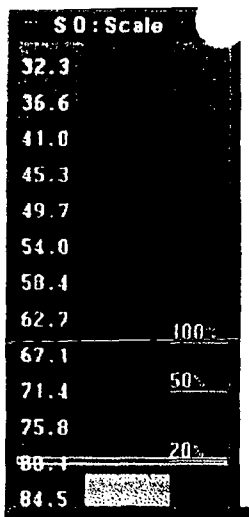


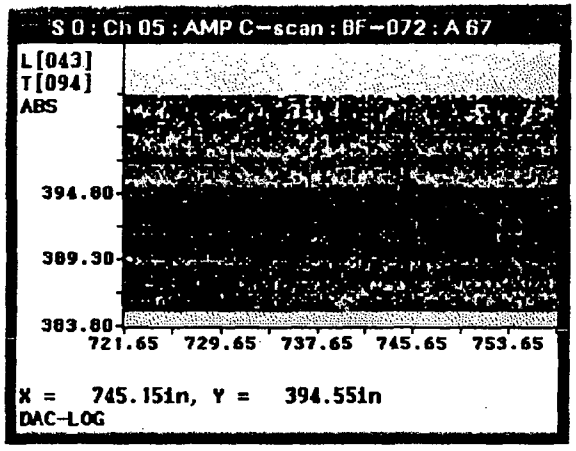


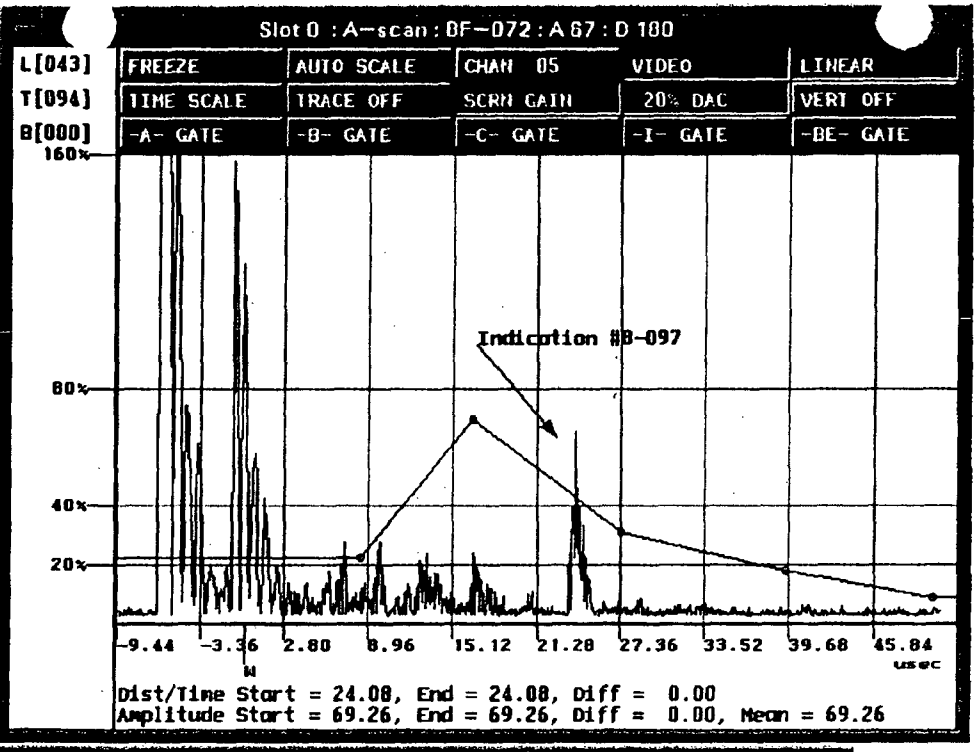


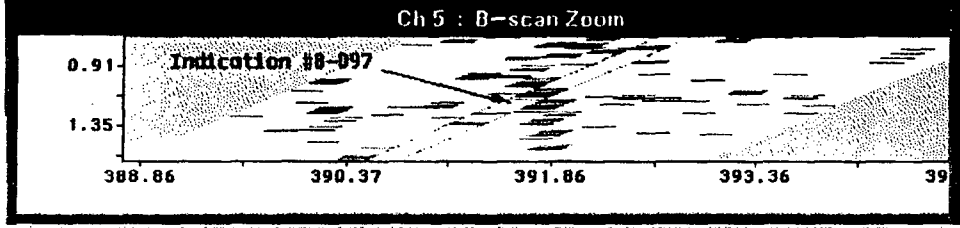
00262

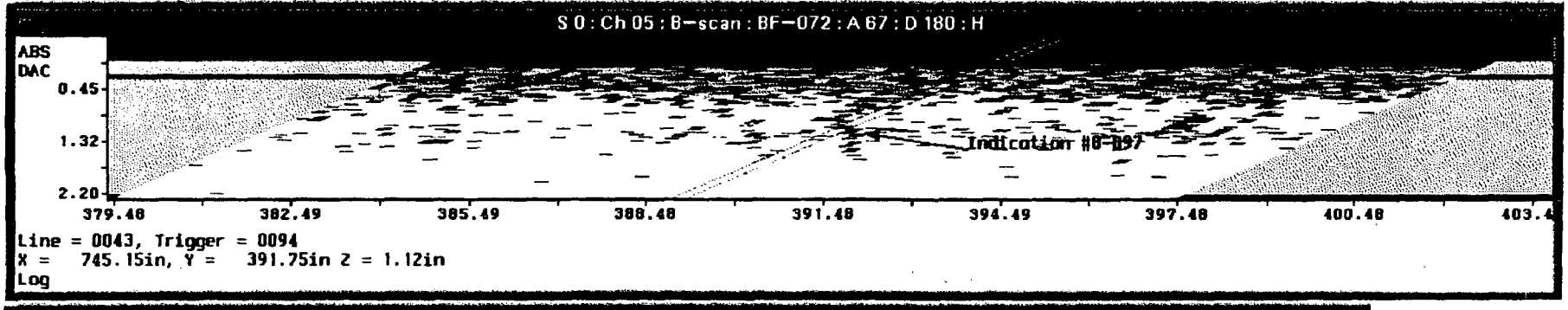
R1154
262 of 276

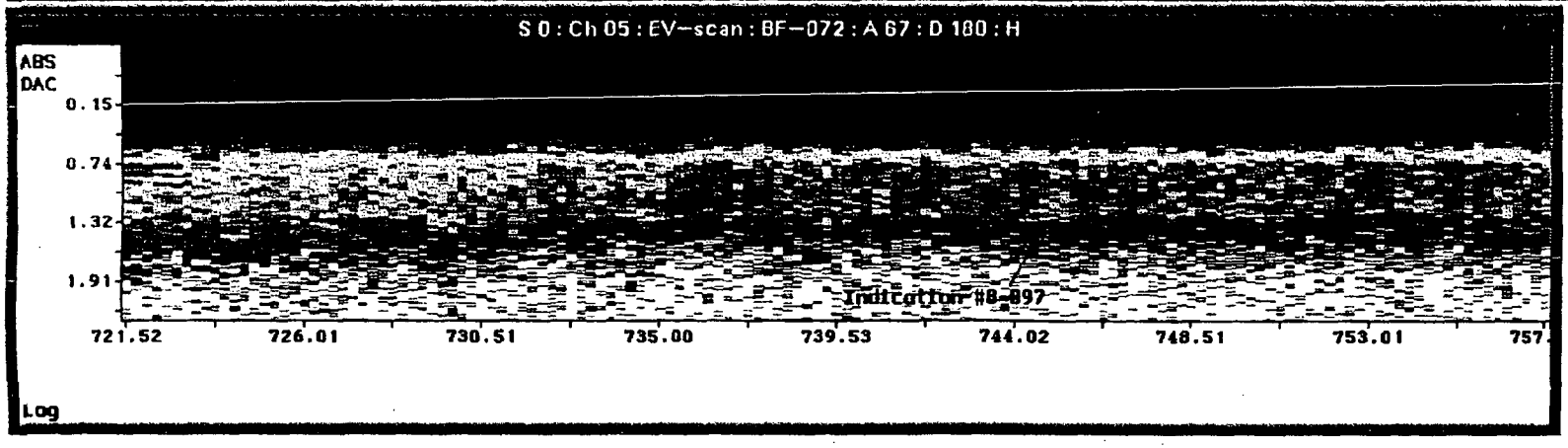


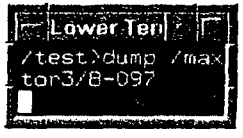






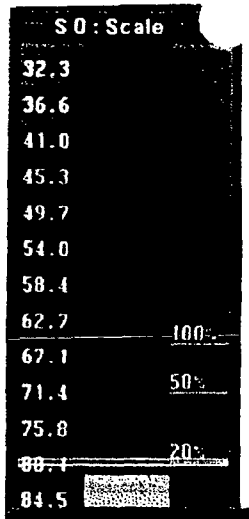


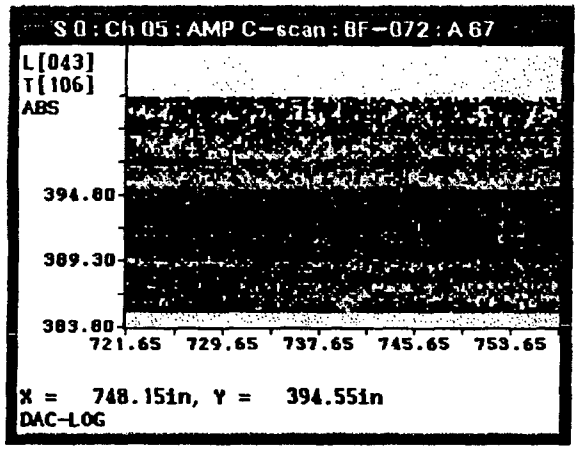


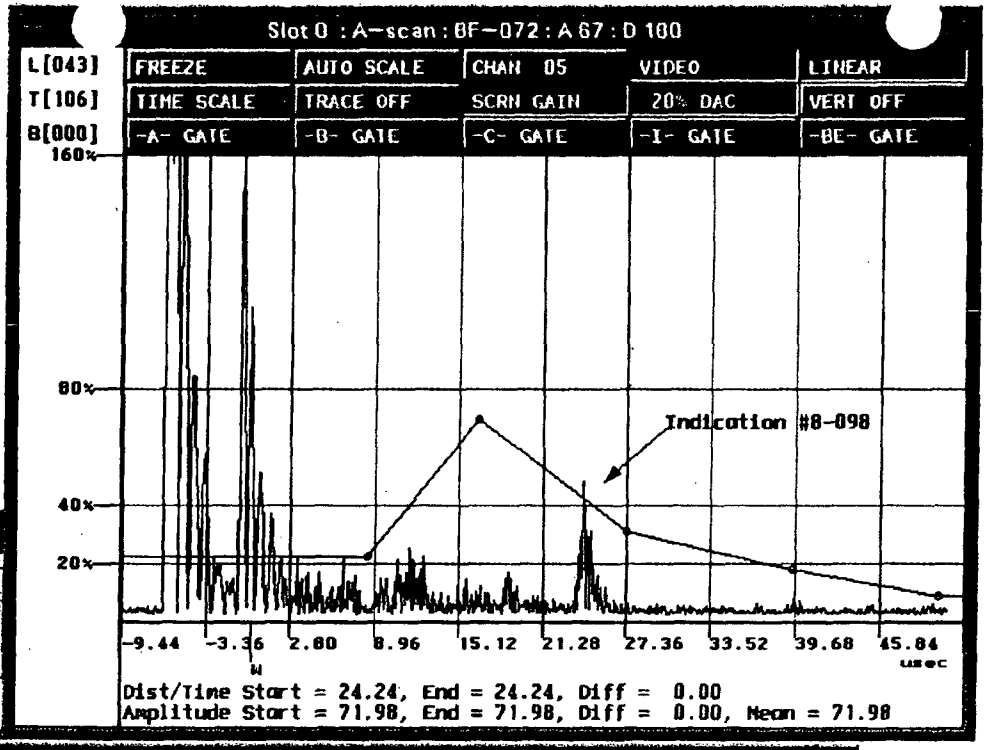


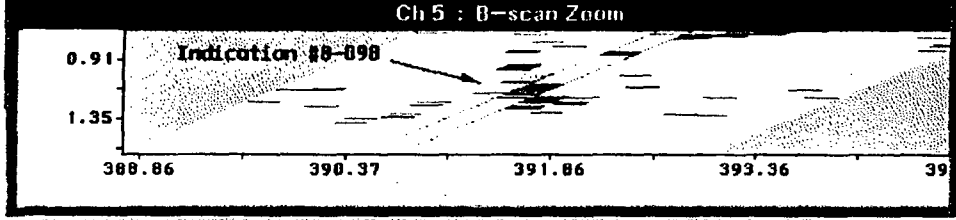
00263

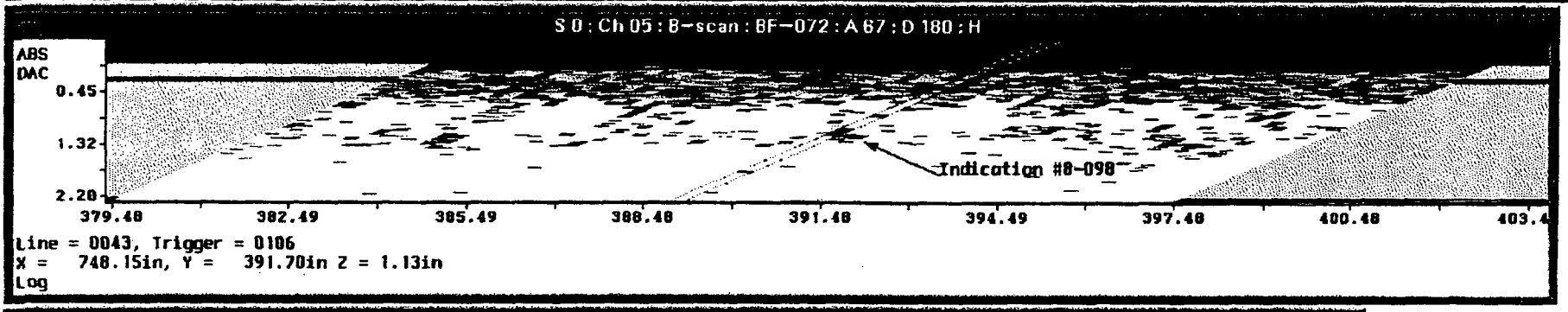
R1154
263 OF 276

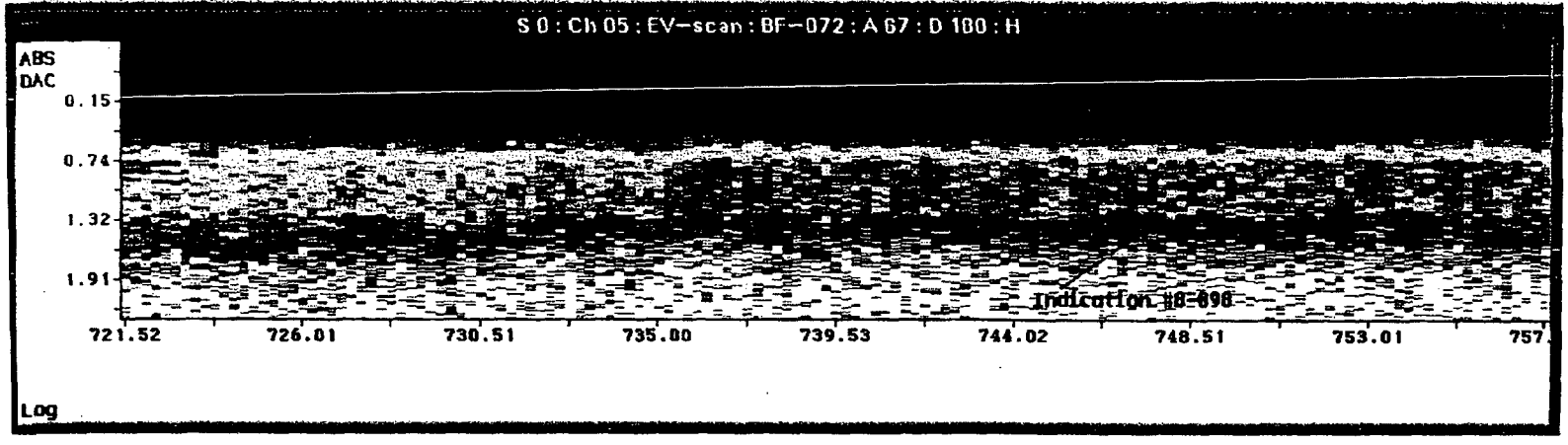




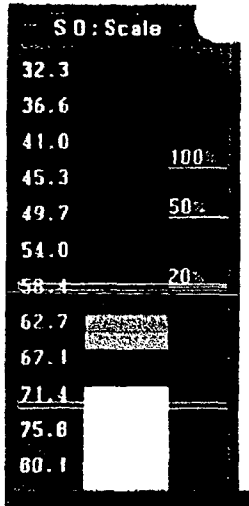


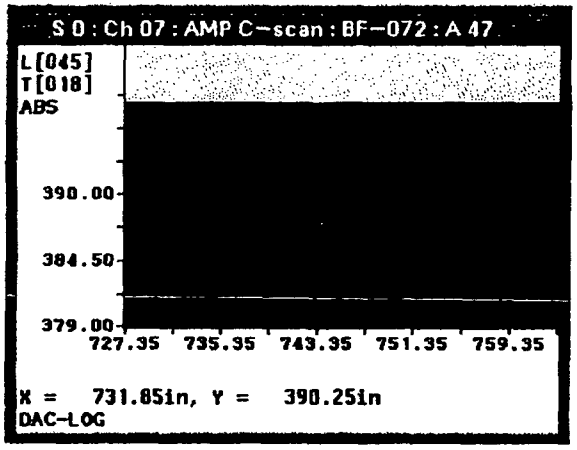


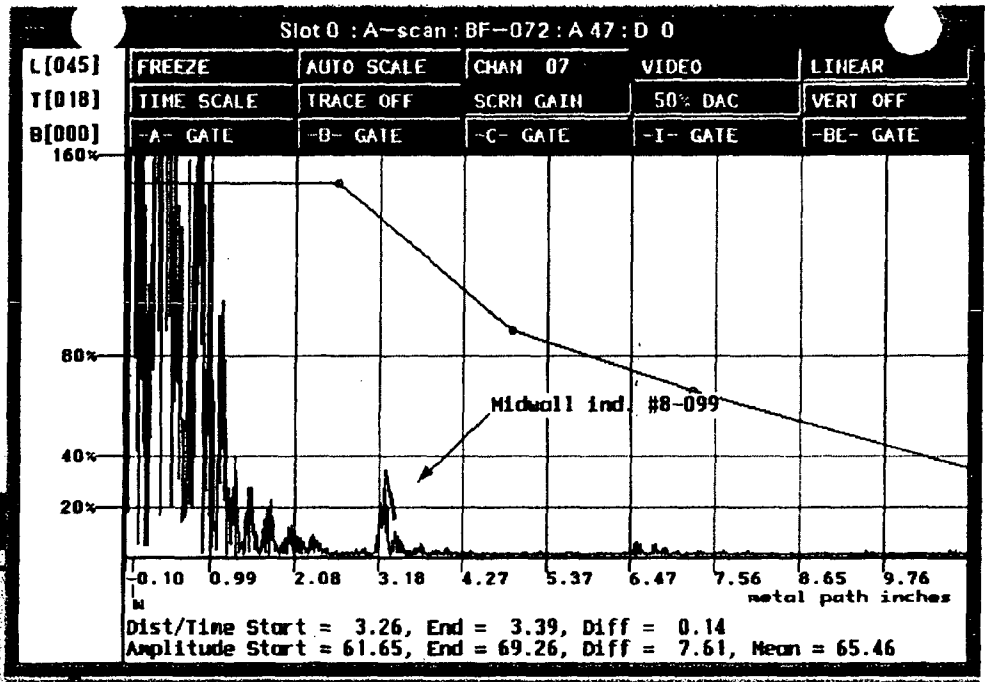


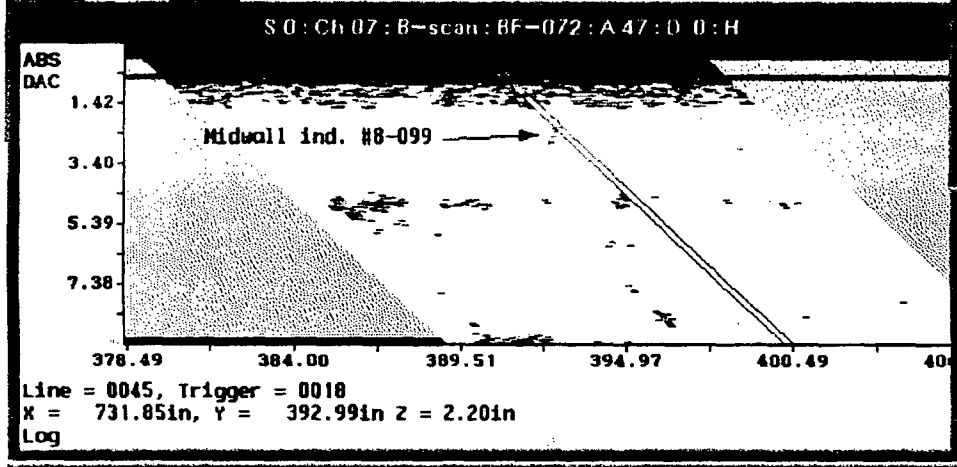


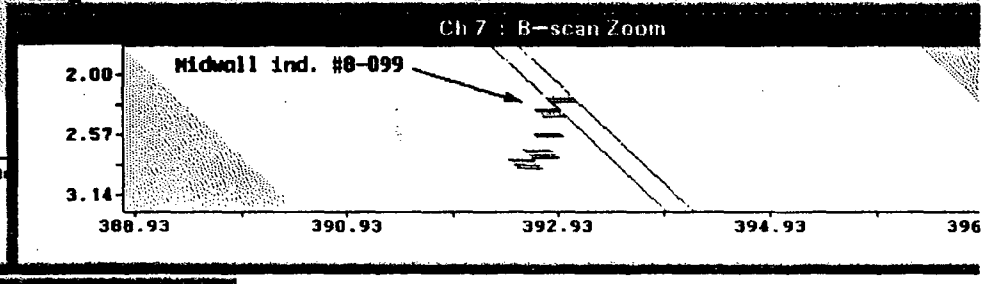
R11154
264 OF 276
00264

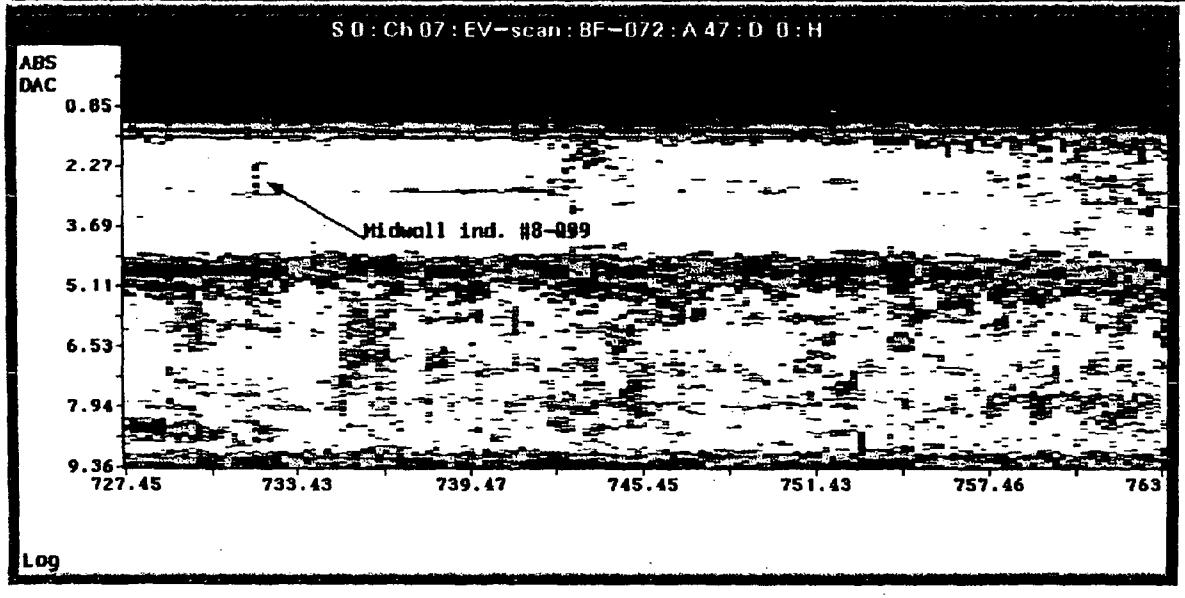


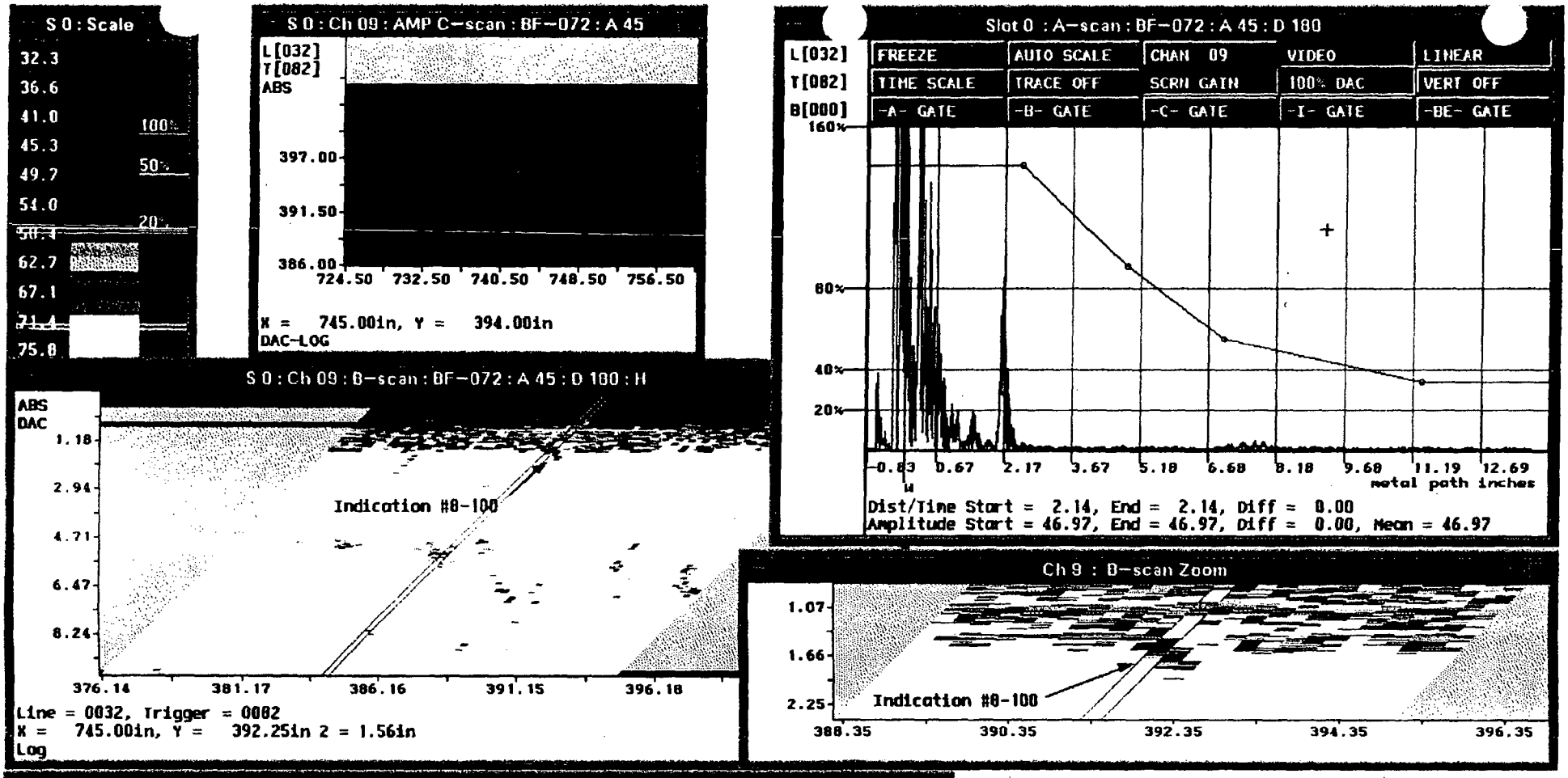






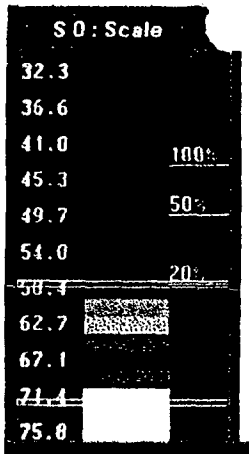


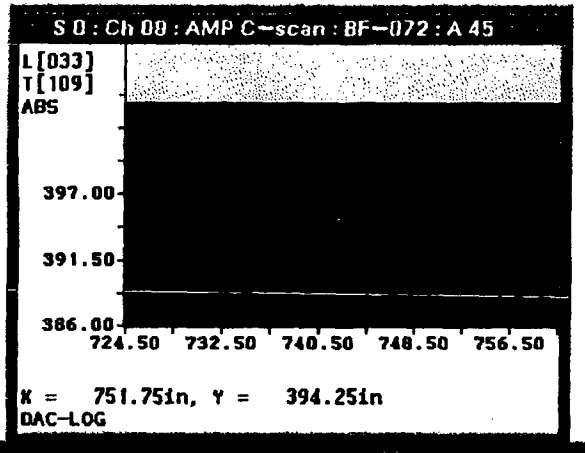


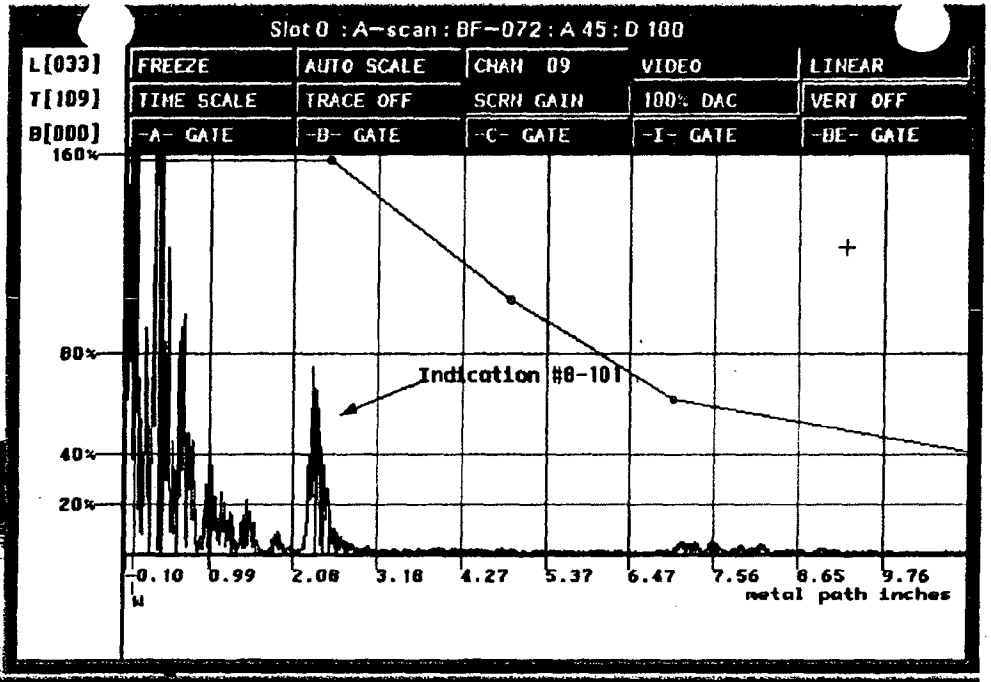


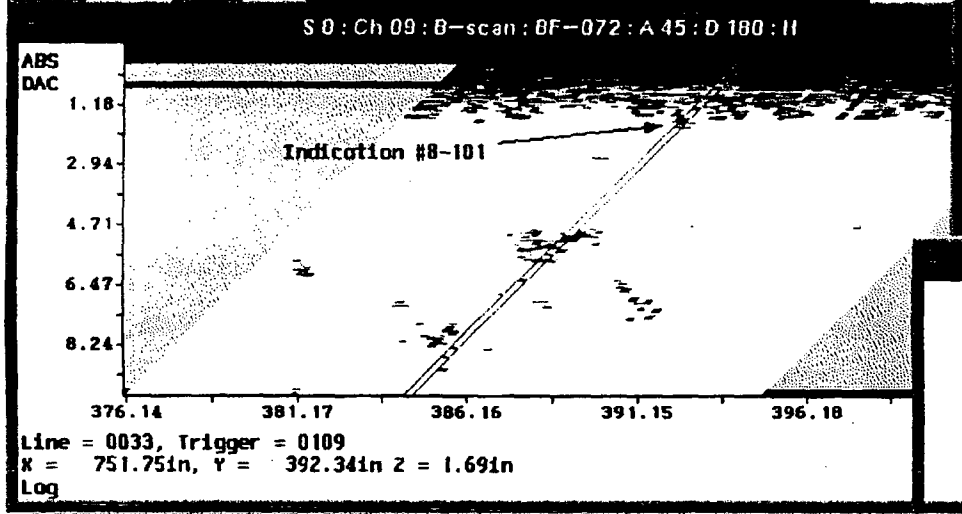
00266

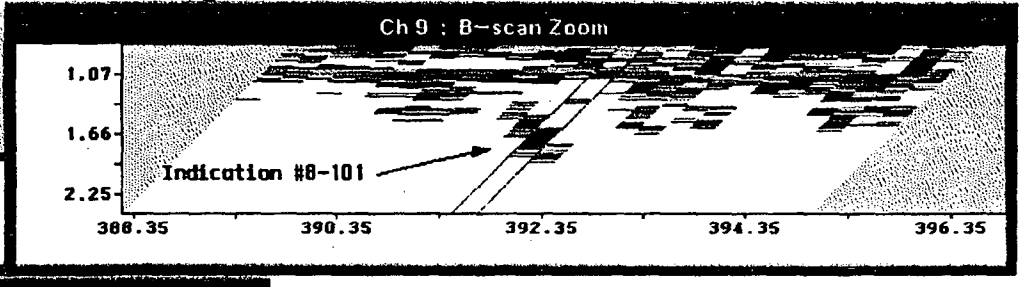
R1154
266 of 276

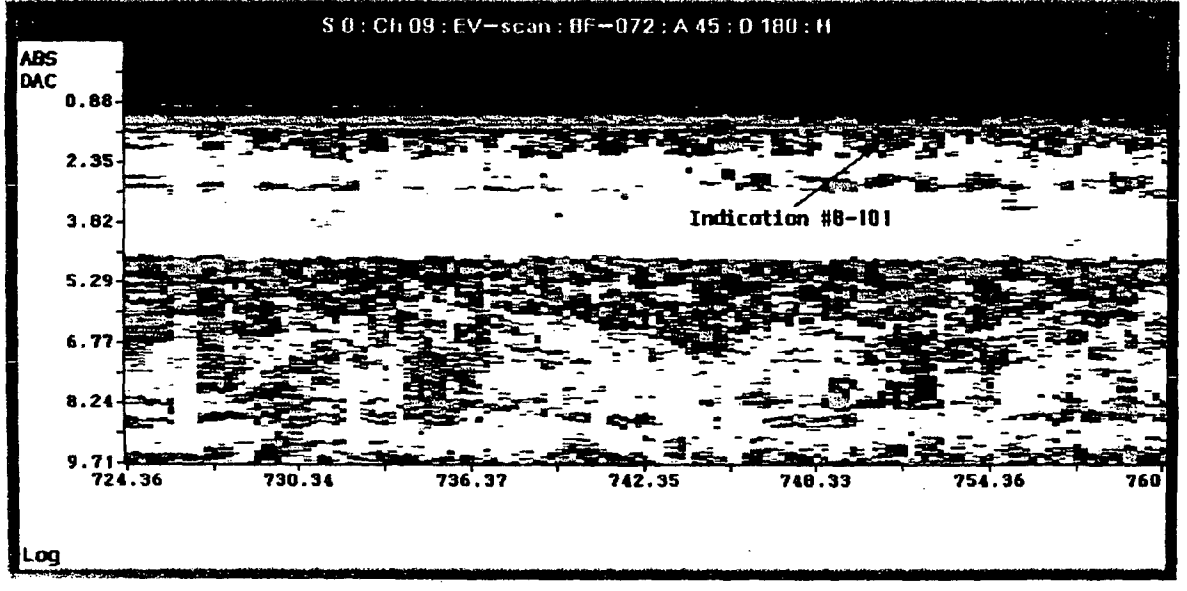


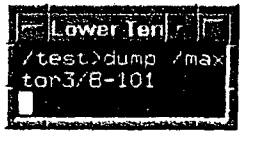






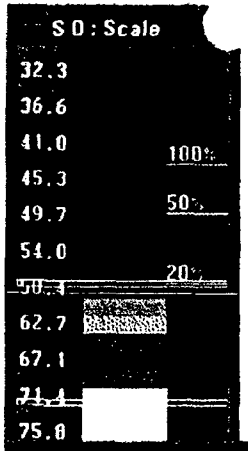


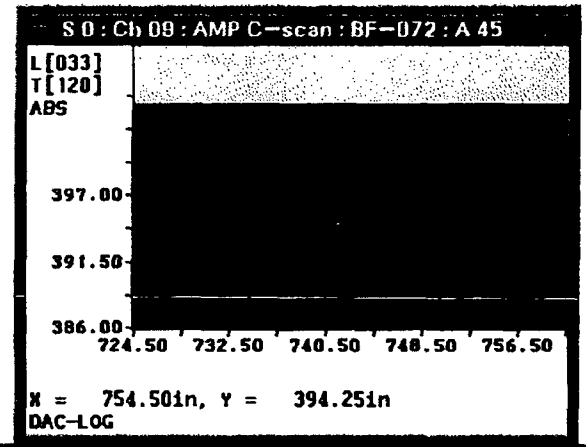


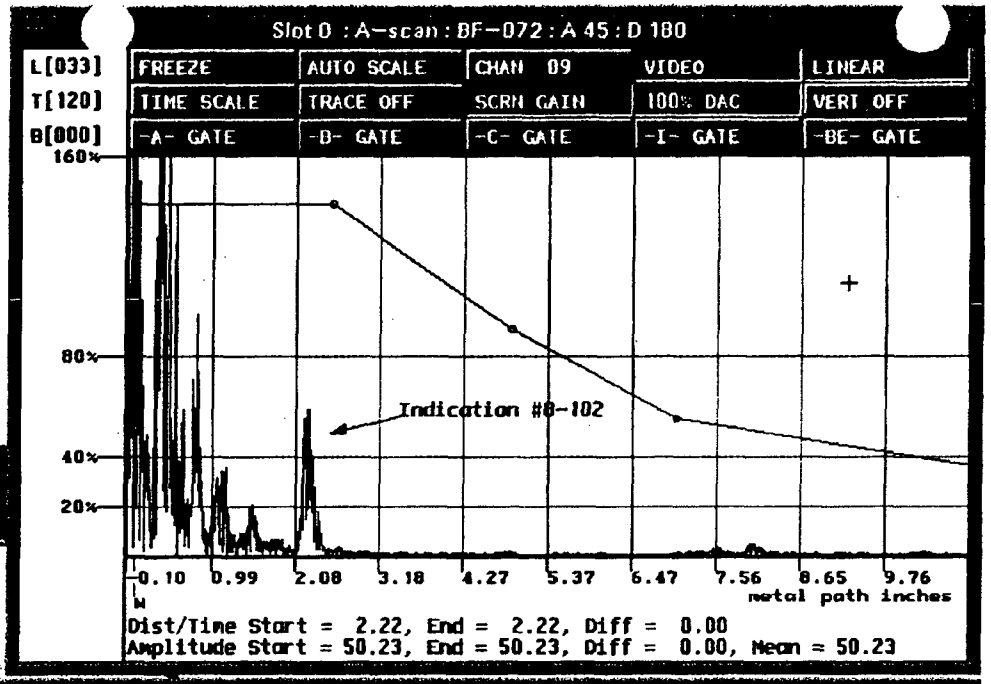


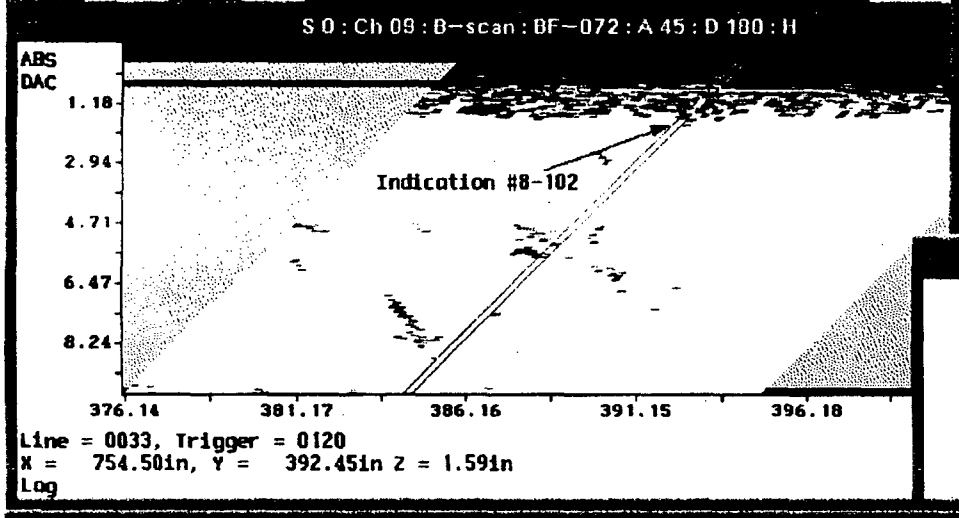
00267

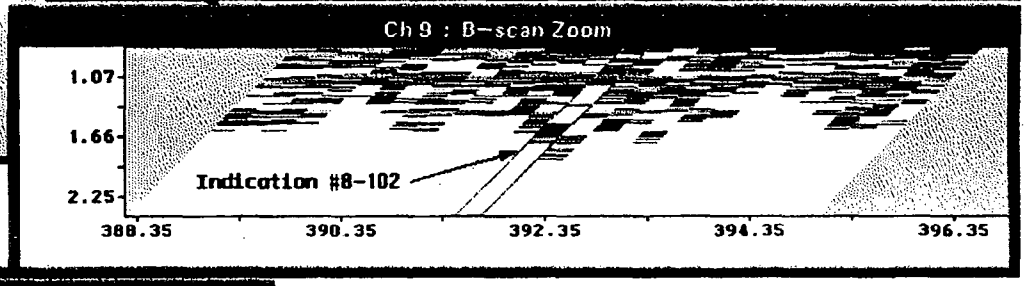
R1154
267 OF 276

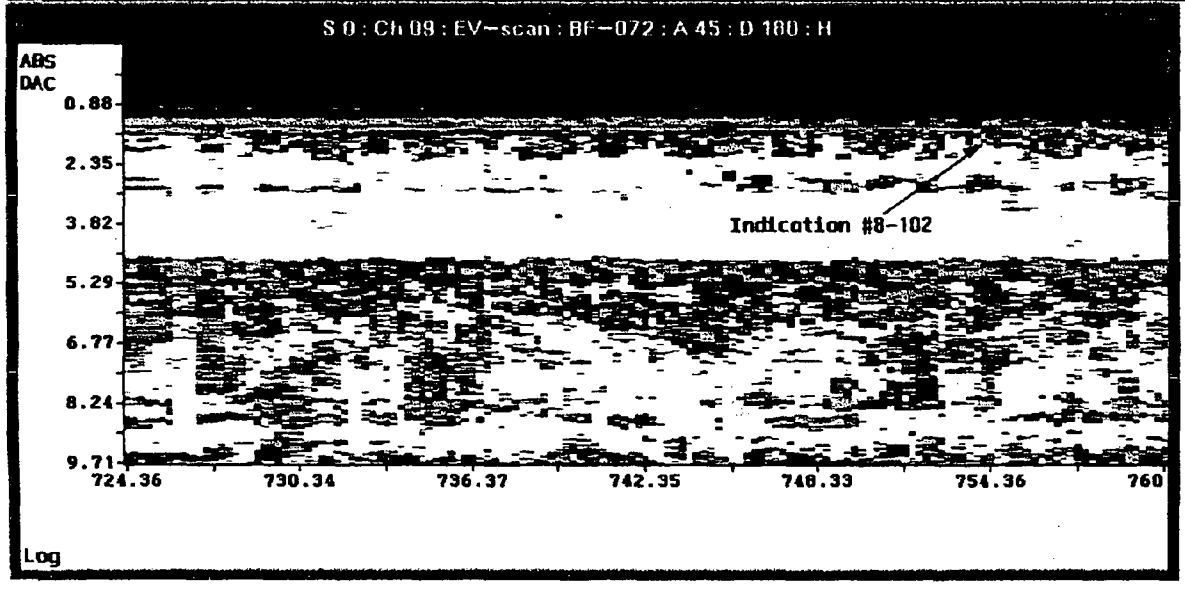




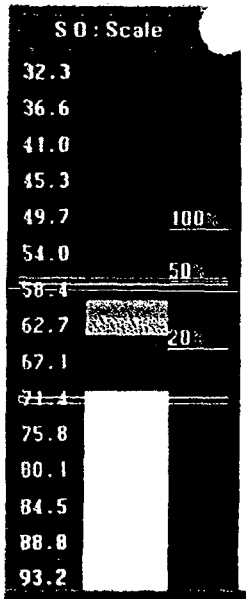


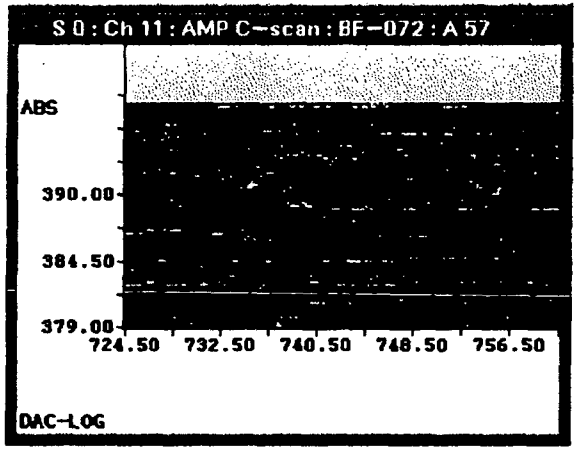


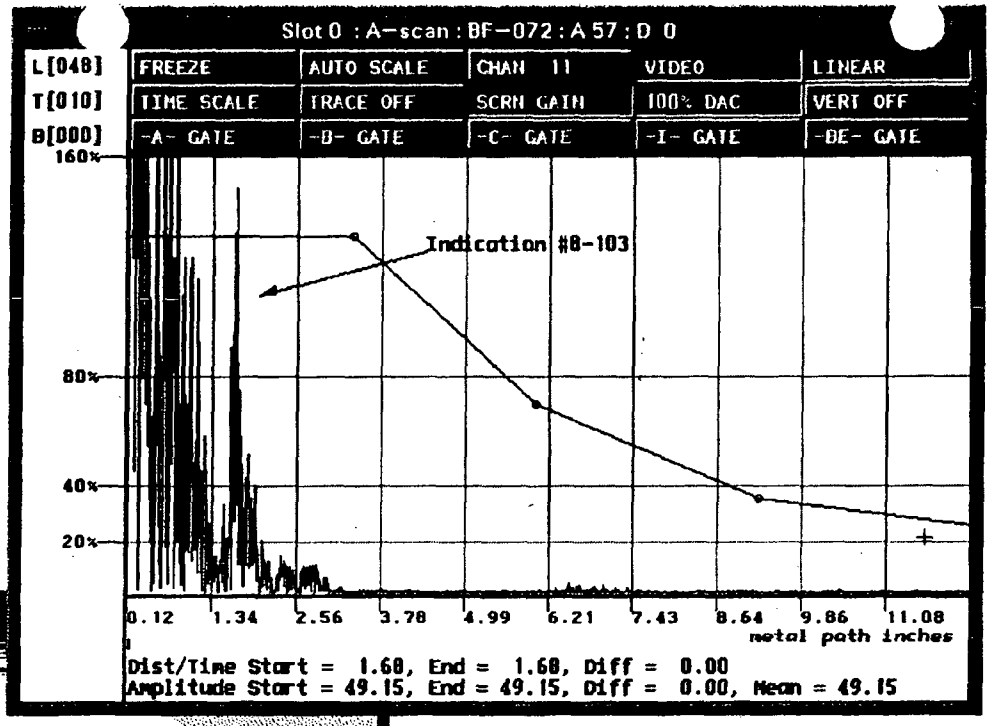


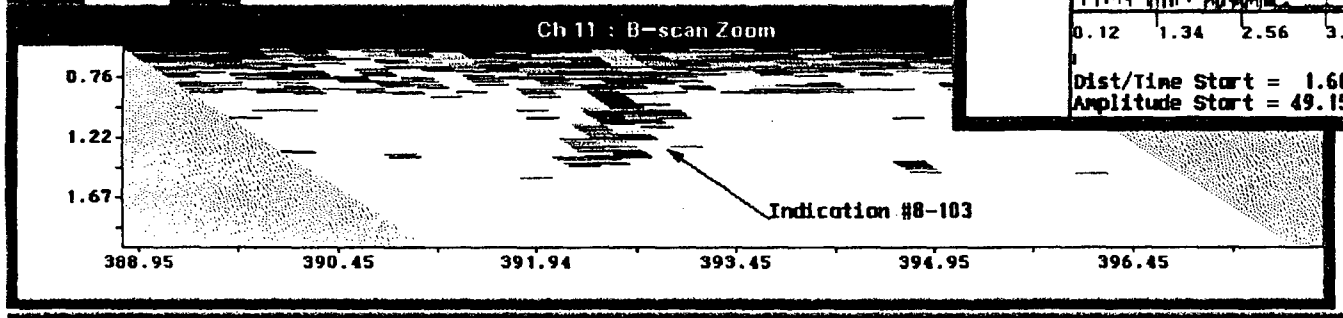


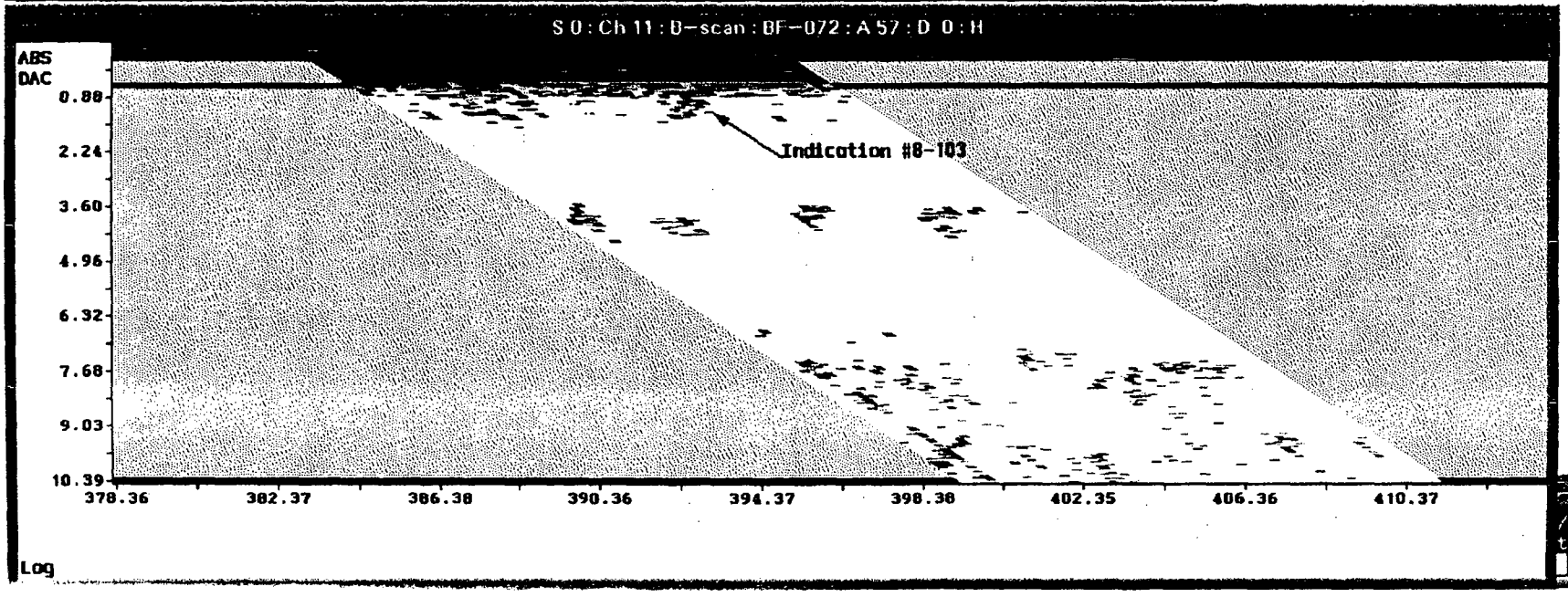
R1154
268 of 276
00268





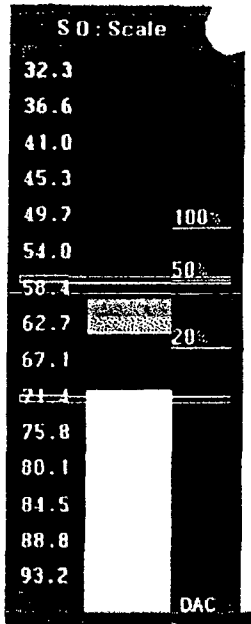


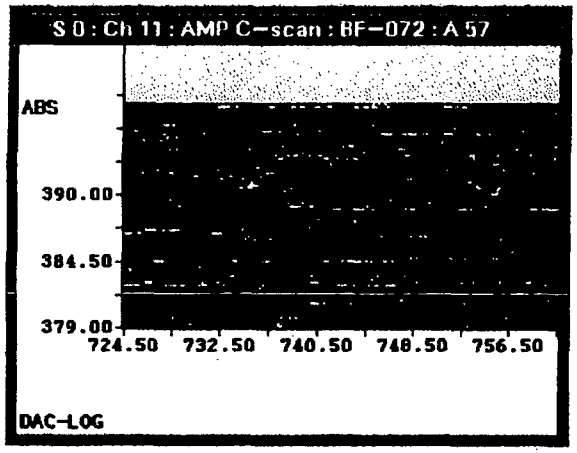


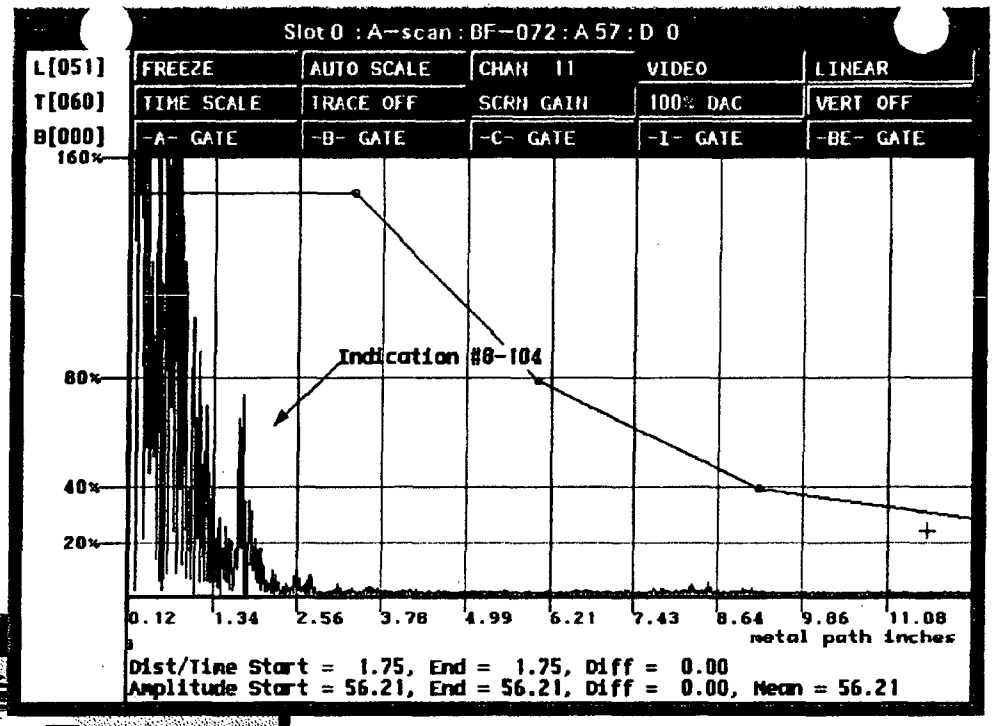


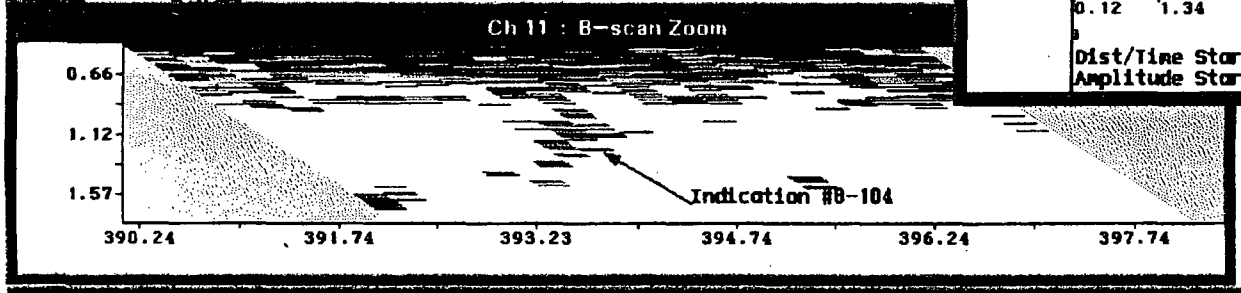
00269

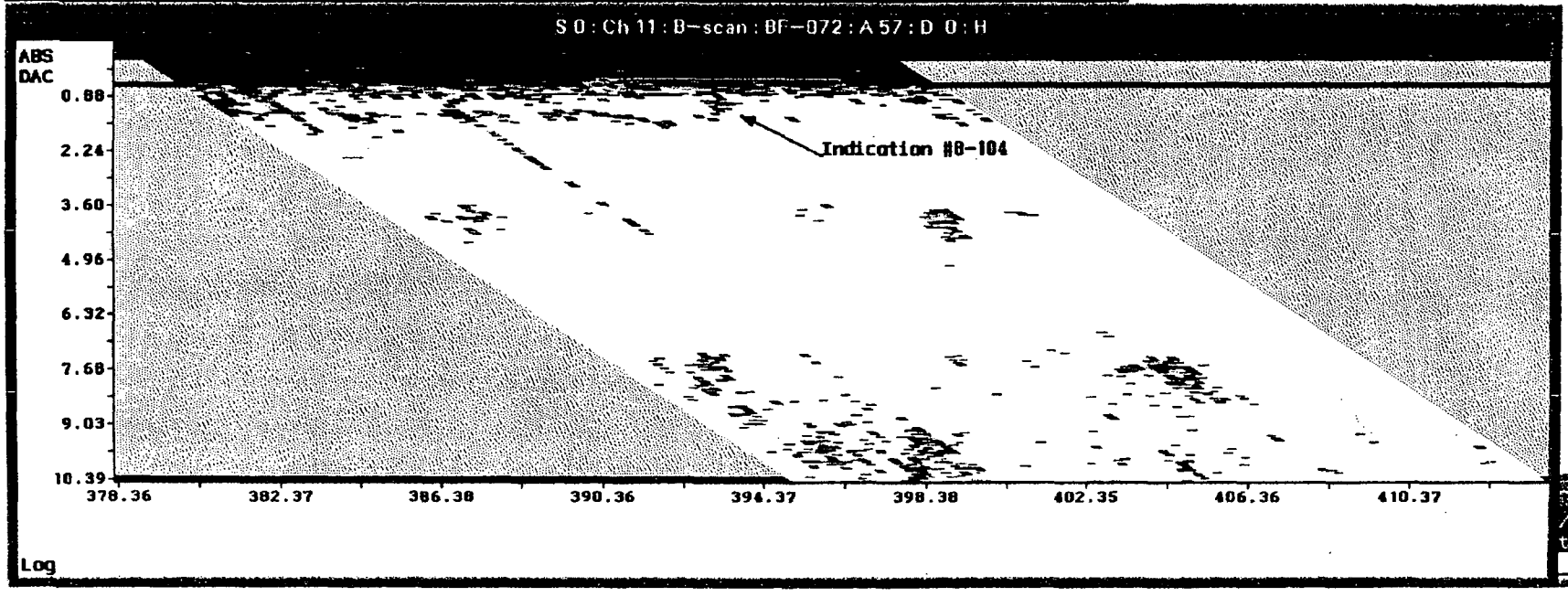
R1154
269 of 276



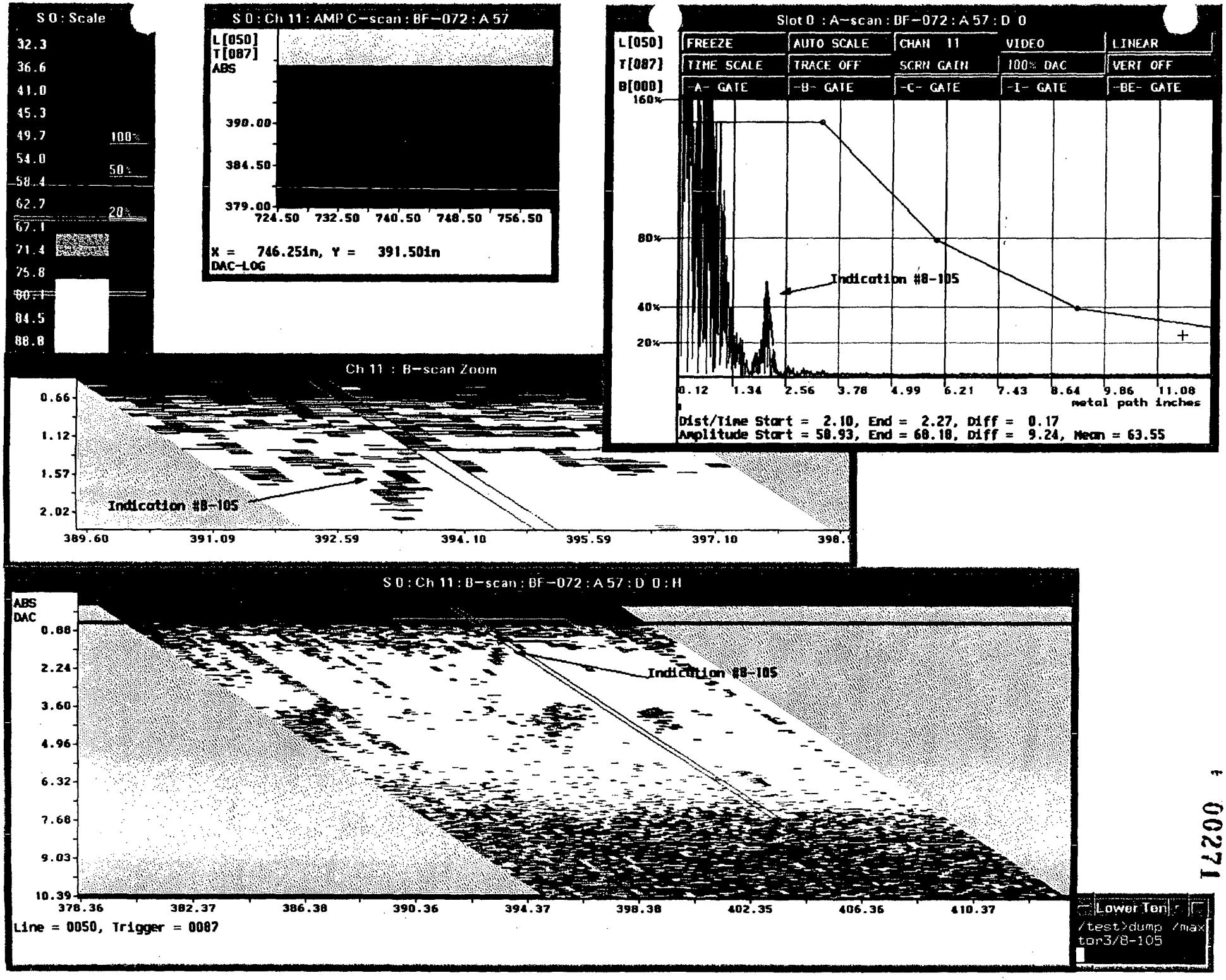






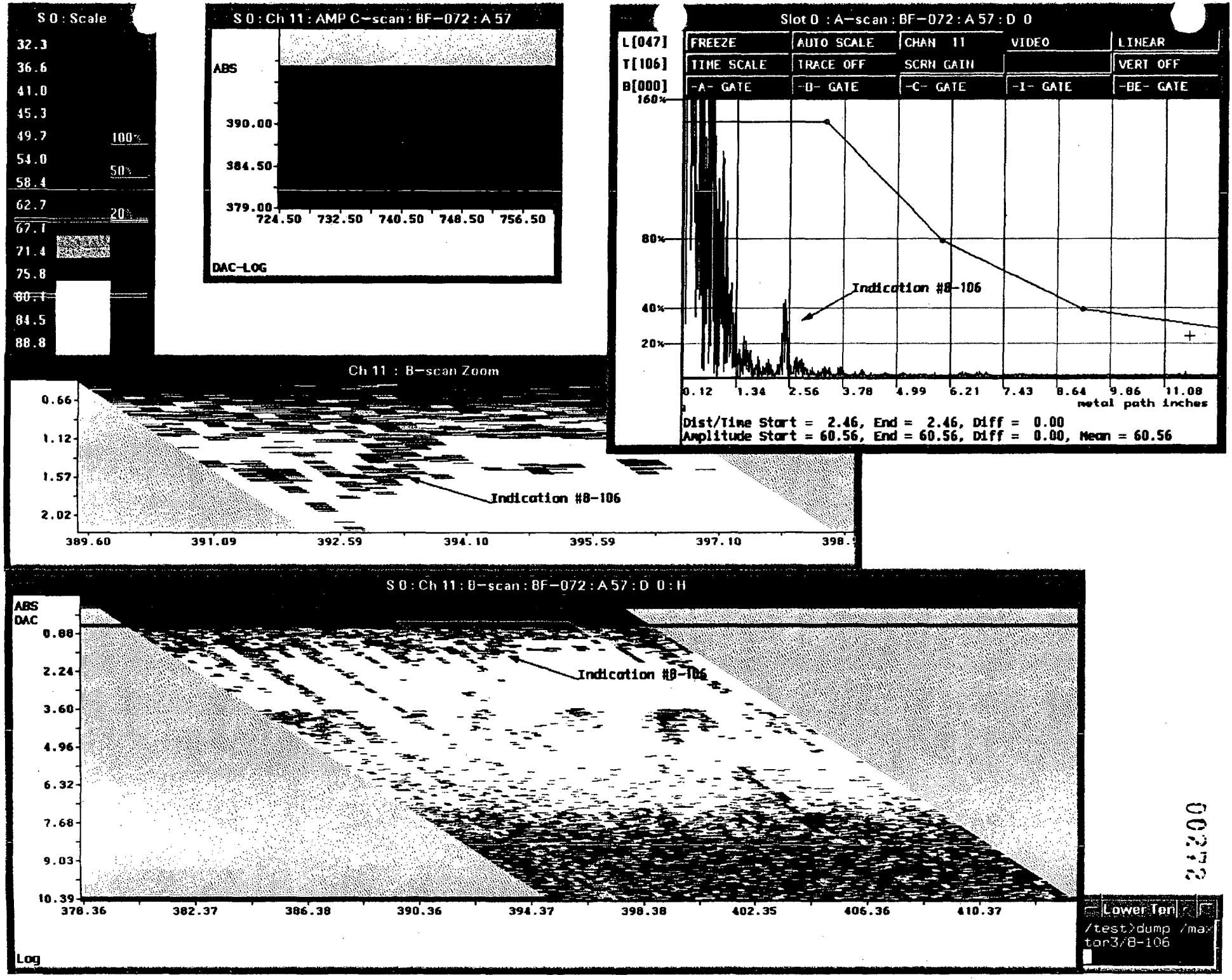


R1154
270 of 276
60270

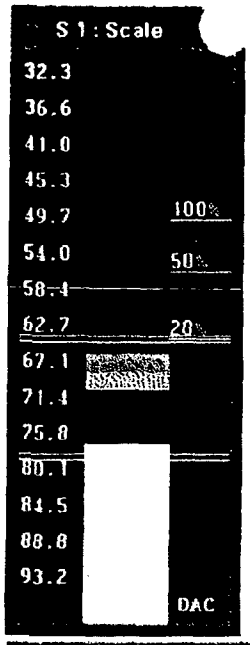


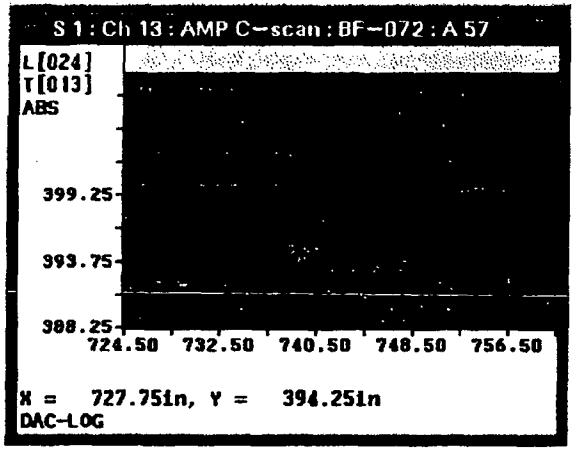
00271

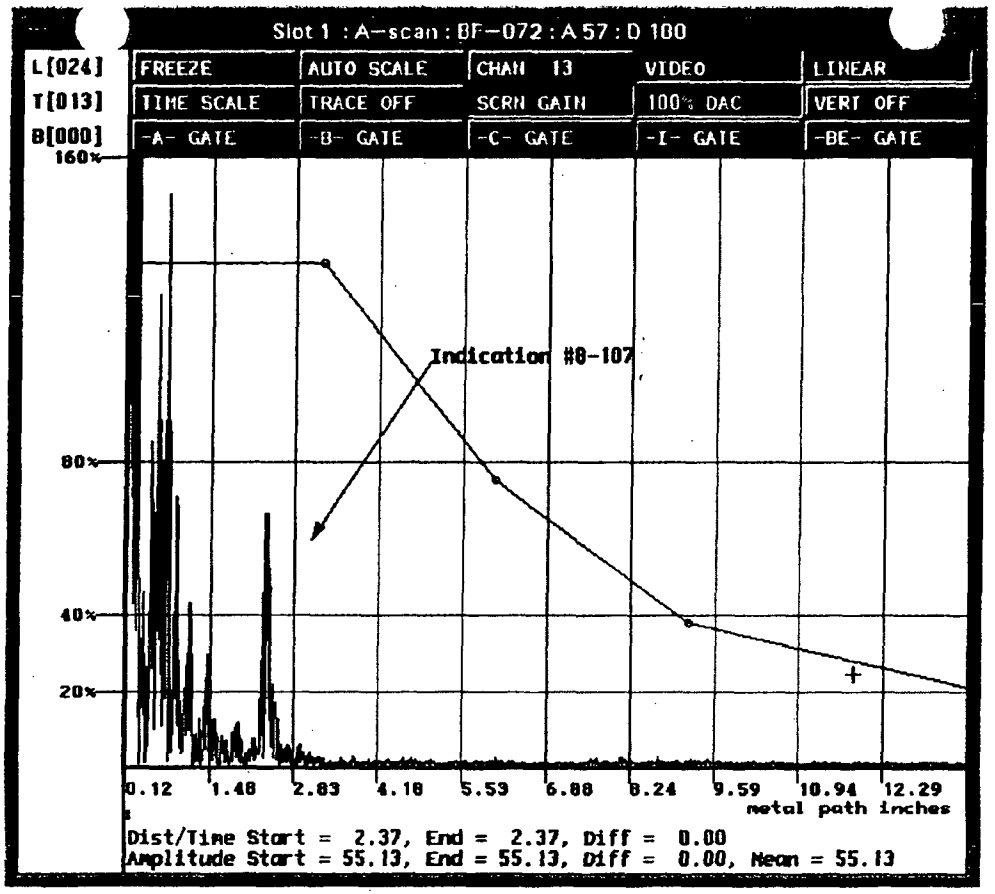
R1154
271 of 276

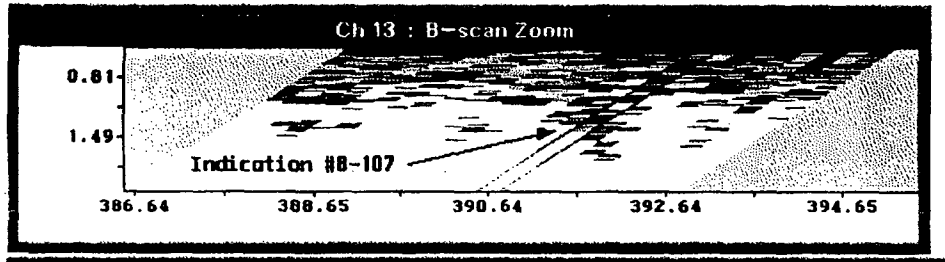


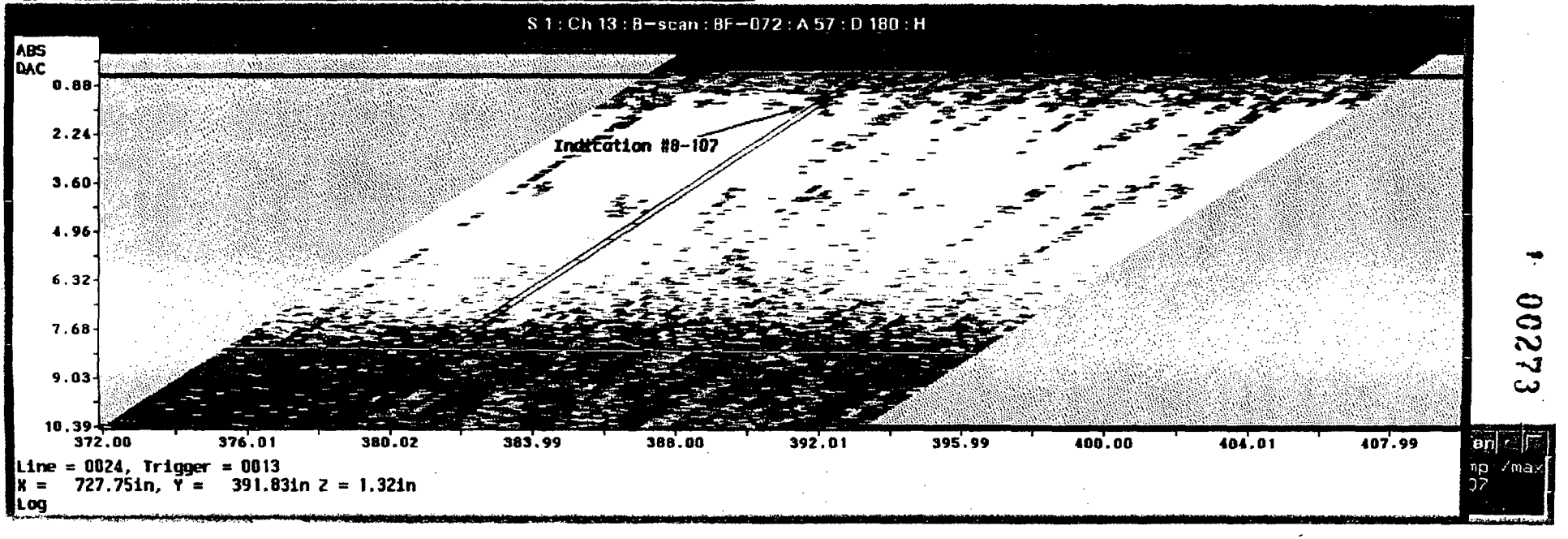
R1154
272 of 276





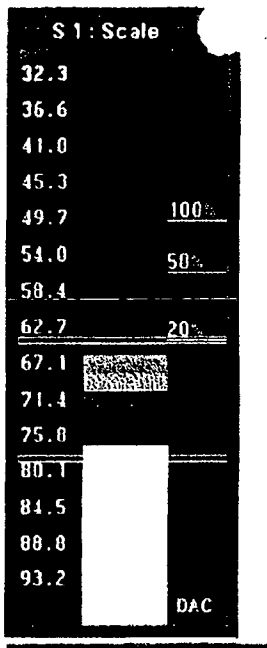


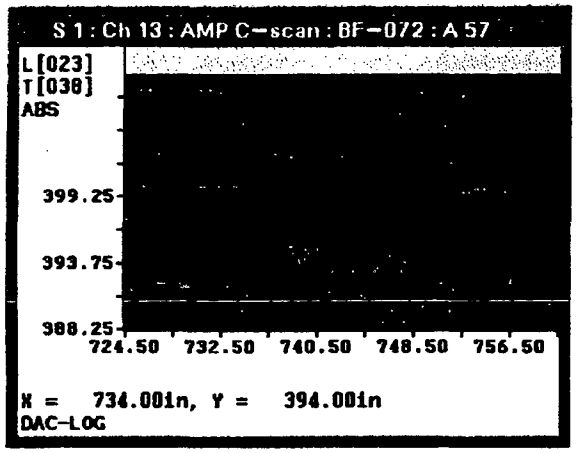


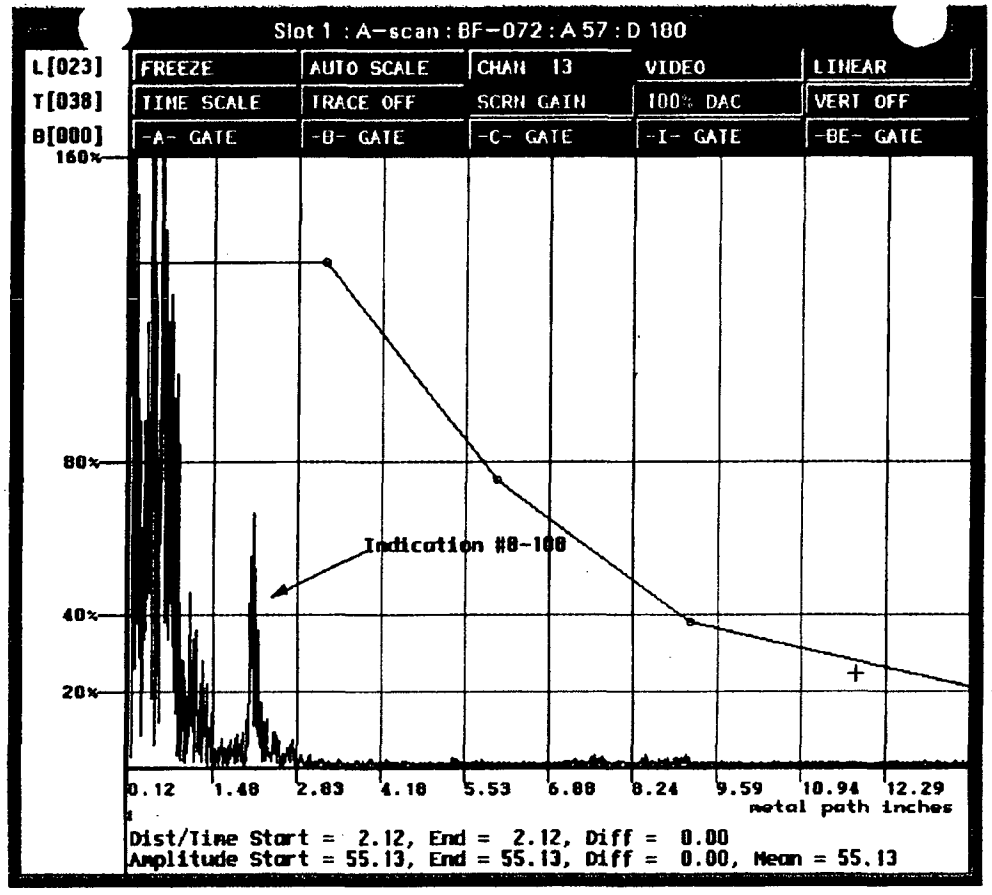


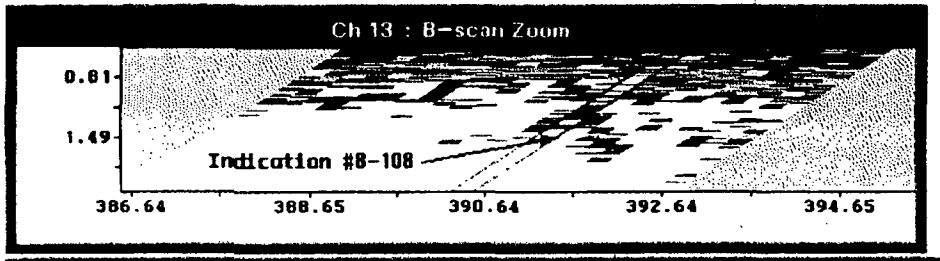
00273

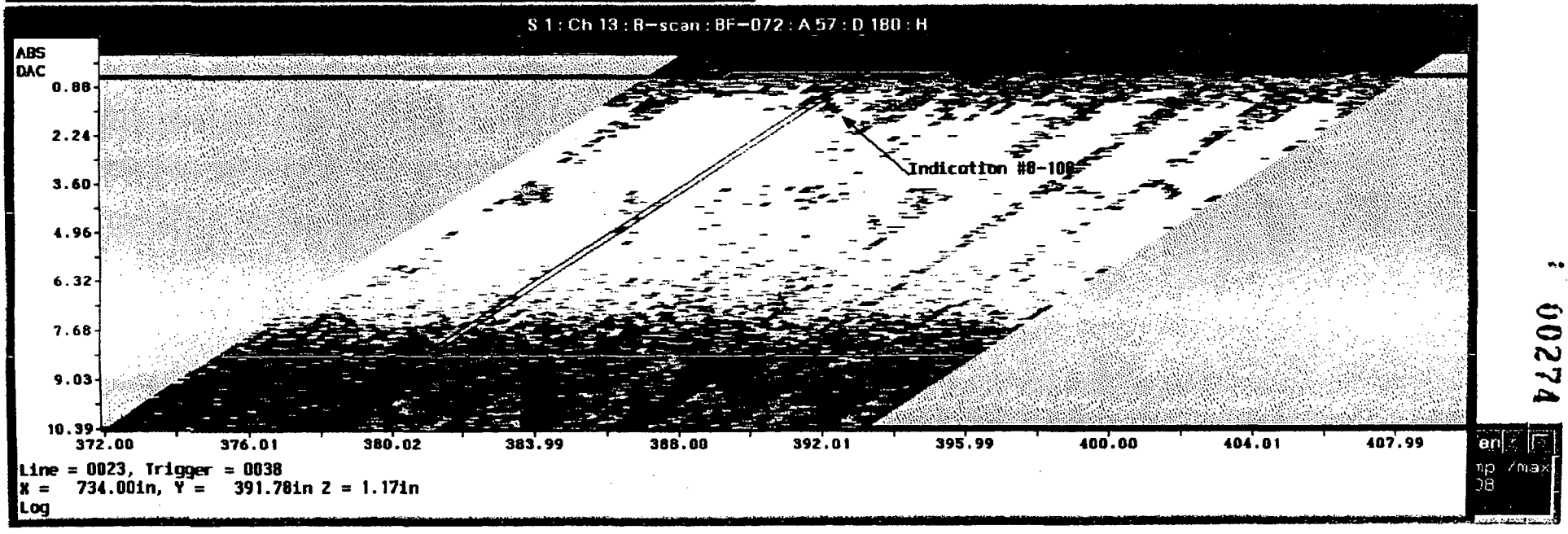
R11534
273 of 276

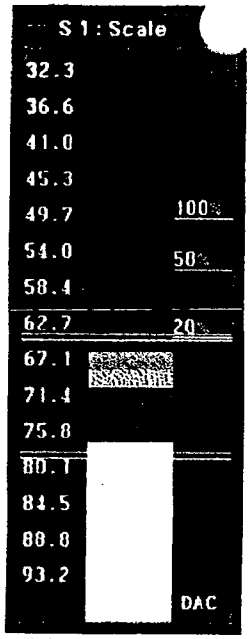


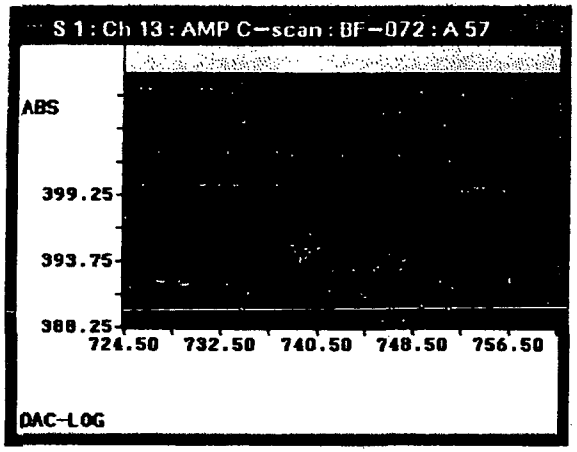


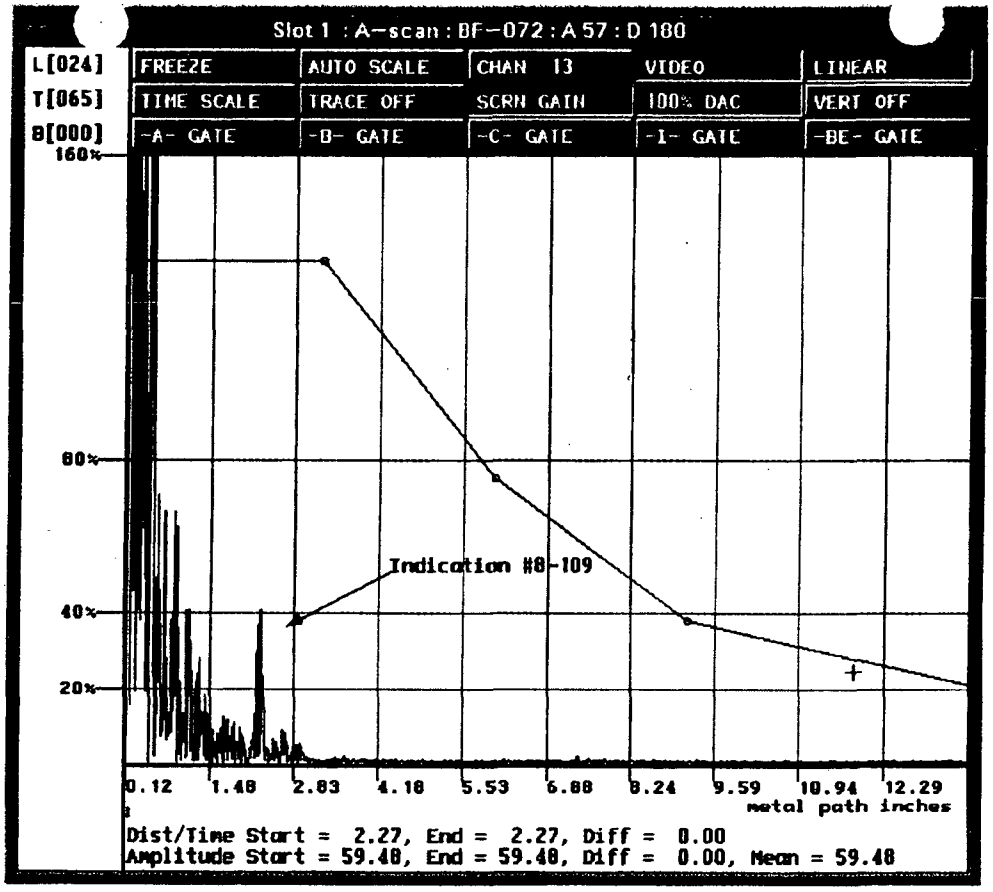


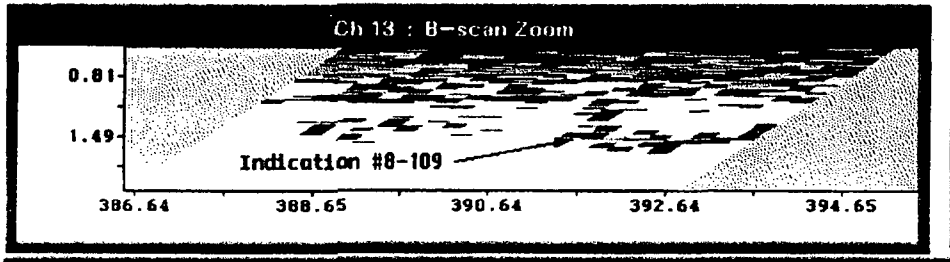


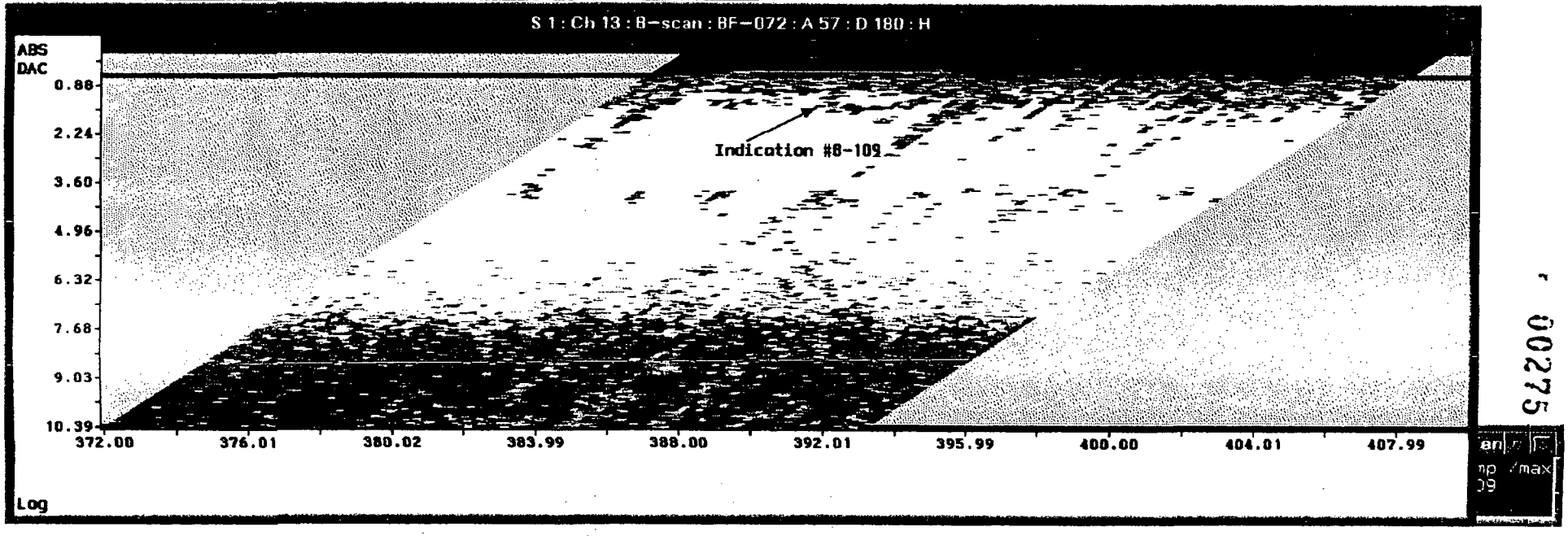


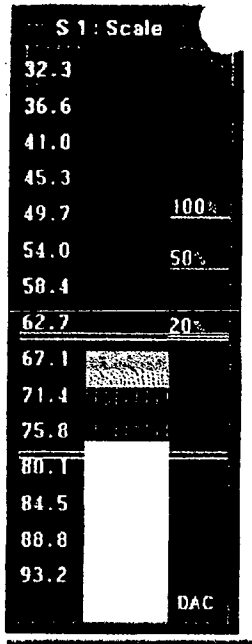


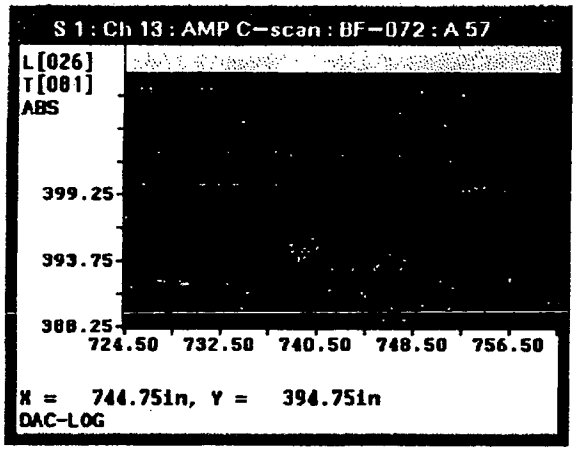


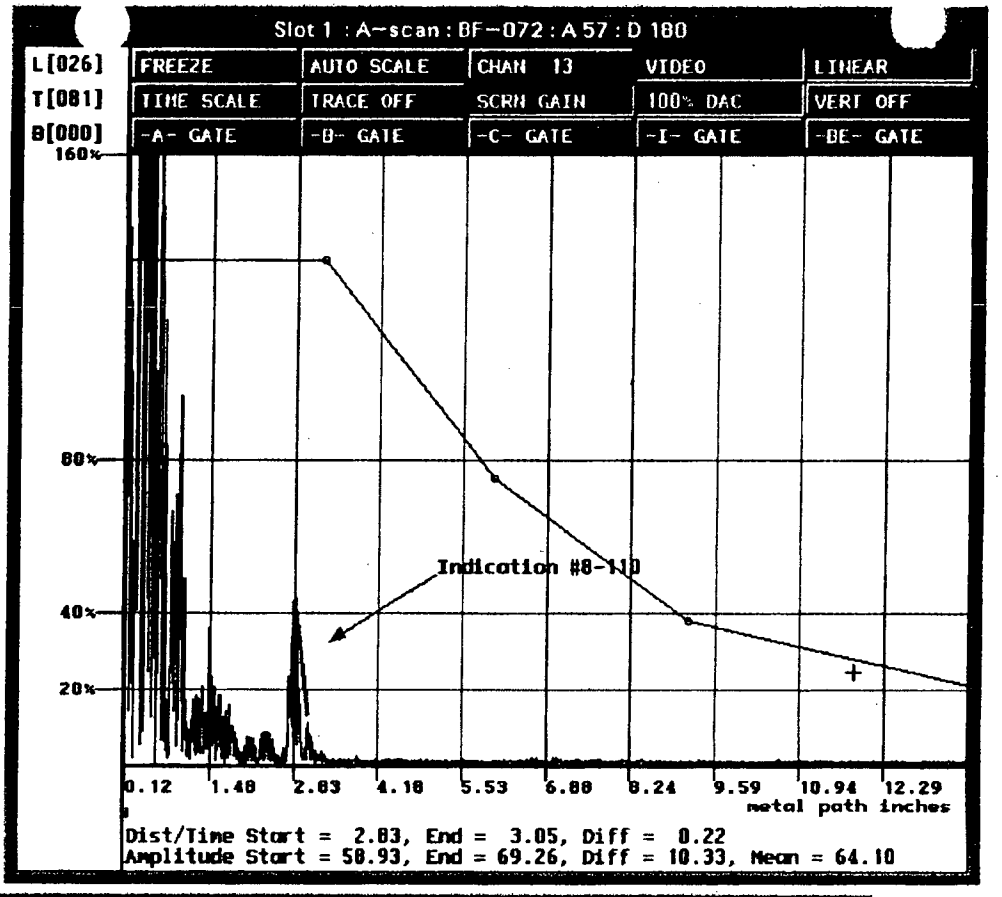


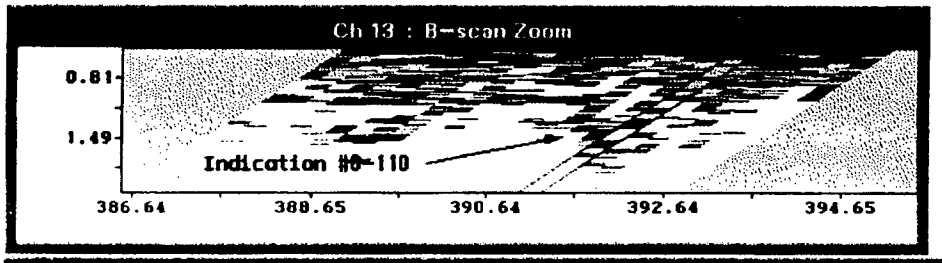


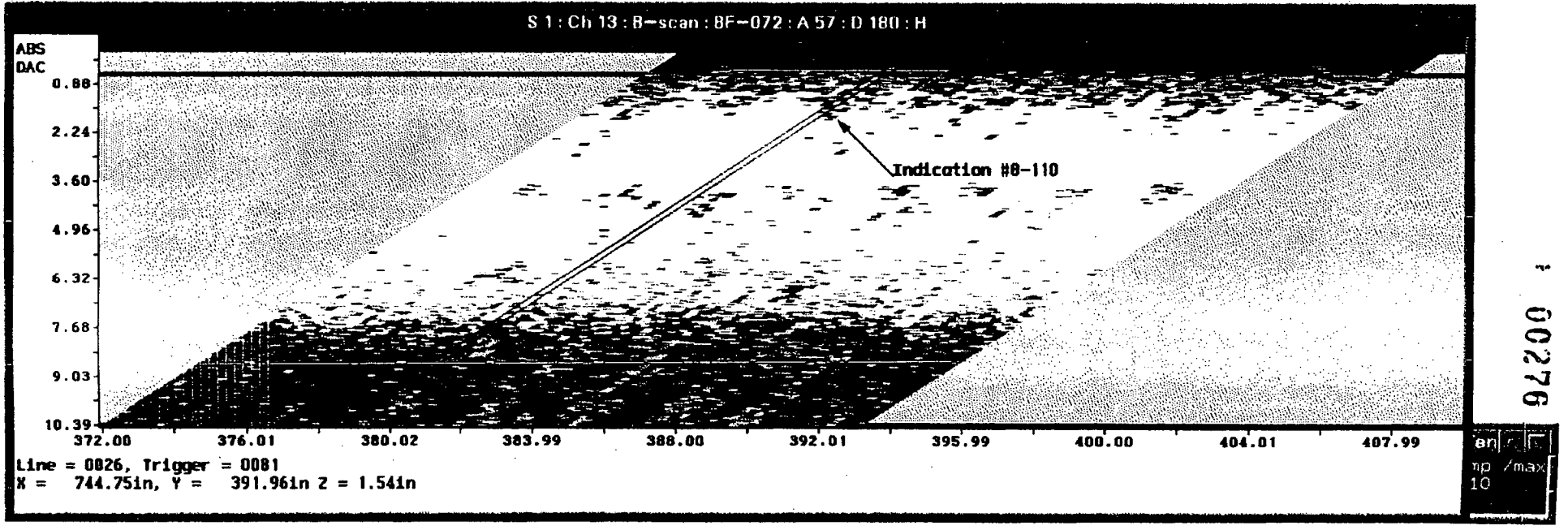












00276

R1154
276 of 276