GE Nuclear Energy

GERIS 2000 Examination Summary Sheet

Project: TVA, Browns Ferry Nuclear Plant, Unit 3
System: Reactor Pressure Vessel
Weld ID: C-5-FLG **ASME Code Category:** B-A

Calibration Sheets: C-001, C-104, C-107, C-108 and C-109

Supporting Data: Examination Data Sheets E-20-00 and E-20-12, Indication Data Sheets 20-001 thru 20-110, G-115 and G-116, Indication Evaluation Sheets, Screen Prints, Exam Patch Location Map, Exam Coverage Plots, GERIS 2000 Setup Records and Manual Examination Data Sheets D-001, D-002, D-007 ,D-008, D-009 and D-010.

Examination Summary

The ultrasonic examination of weld C-5-FLG resulted in five (5) 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 a clad patch at 30°, the Guide Rods at 0° and 180° and four (4) Main Steam plug lines at 74°, 110°, 250°, and 286°. Areas that could not be examined using the GERIS 2000 and accessible from the outside were examined with the manual technique utilizing Procedure No. GE-UT-300 Rev. 6, FRR-004. The total examination coverage was calculated to be 82%.

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 five (5) 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
20-007	circ.	subsurface	83.90"	706.42"	1.01"	.82"	.40"	3.25"	6.54"	.061	3.05	2.27
20-008	circ.	subsurface	88.40"	706.44"	1.02"	.83"	.39"	1.50"	6.55"	.130	2.98	2.74
20-009	circ.	subsurface	95.90"	706.44"	1.03"	.84"	.38"	2.25"	6.59"	.085	2.91	2.41
20-011	circ.	subsurface	100.90"	706.37"	1.23"	1.04"	.39"	1.75"	6.62"	.111	2.92	2.58
20-012	circ.	subsurface	116.90"	706.40"	1.14"	.95"	.48"	1.50"	6.87"	.159	3.47	2.97

Indication 20-007 was sized with the 70°RL channel 3 utilizing the PATT technique. This indication was also recorded with 70°RL channel 5 as 20-016.

Indication 20-008 was sized with the 70°RL channel 3 utilizing the PATT technique. This indication was also recorded with 45° shear wave channel 7 as 20-022.

Indication 20-009 was sized with the 70°RL channel 3 utilizing the PATT technique. This indication was also recorded with 70°RL channel 5 as 20-017, 45° shear wave channels 7 as 20-023 and 9 as 20-027.

Indication 20-011 was sized with the 70°RL channel 3 utilizing the PATT technique. This indication was also recorded with 70°RL channel 5 as 20-018

GERIS Analyst: Leeuwe Kimball	GE Reviewer: [signature]
LEVEL: III DATE: 12-21-93	LEVEL: III DATE: 12/21/93
UTILITY Review: [signature]	ANII Review:
TITLE: III DATE: 1/26/94	TITLE: Albert Ladd DATE: 8/25/94

GERIS 2000 Examination Summary
(Continuation)

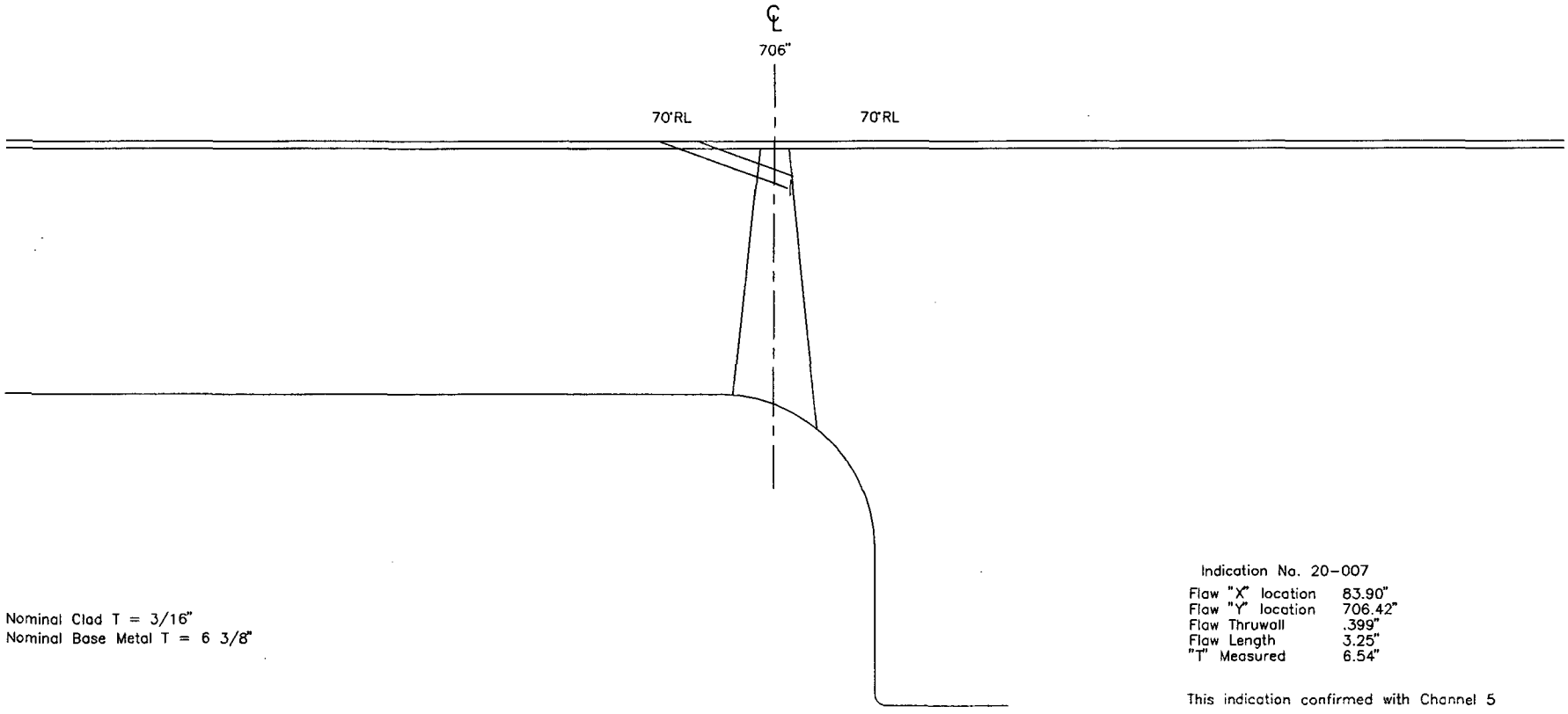
Indication 20-012 was sized with the 70°RL channel 3 utilizing the PATT technique. This indication was also recorded with 45° shear wave channel 7 as 20-024.

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. Geometric indications from the flange radius were recorded with the 45° and 60° shear wave scans.

The manual technique utilized 0° longitudinal, 45° and 60° shear wave search units both parallel and perpendicular to the weld axis in two directions to effectively examine the weld and adjacent base materials.

No indications were recorded with the manual technique.

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



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

Indication No. 20-007

Flaw "X" location	83.90"
Flaw "Y" location	706.42"
Flaw Thruwall	.399"
Flaw Length	3.25"
"T" Measured	6.54"

This indication confirmed with Channel 5

GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	WELD C-5-FLG INDICATION 20-007	SCALE: NONE	DWG. BF3C5FI	REV. 0

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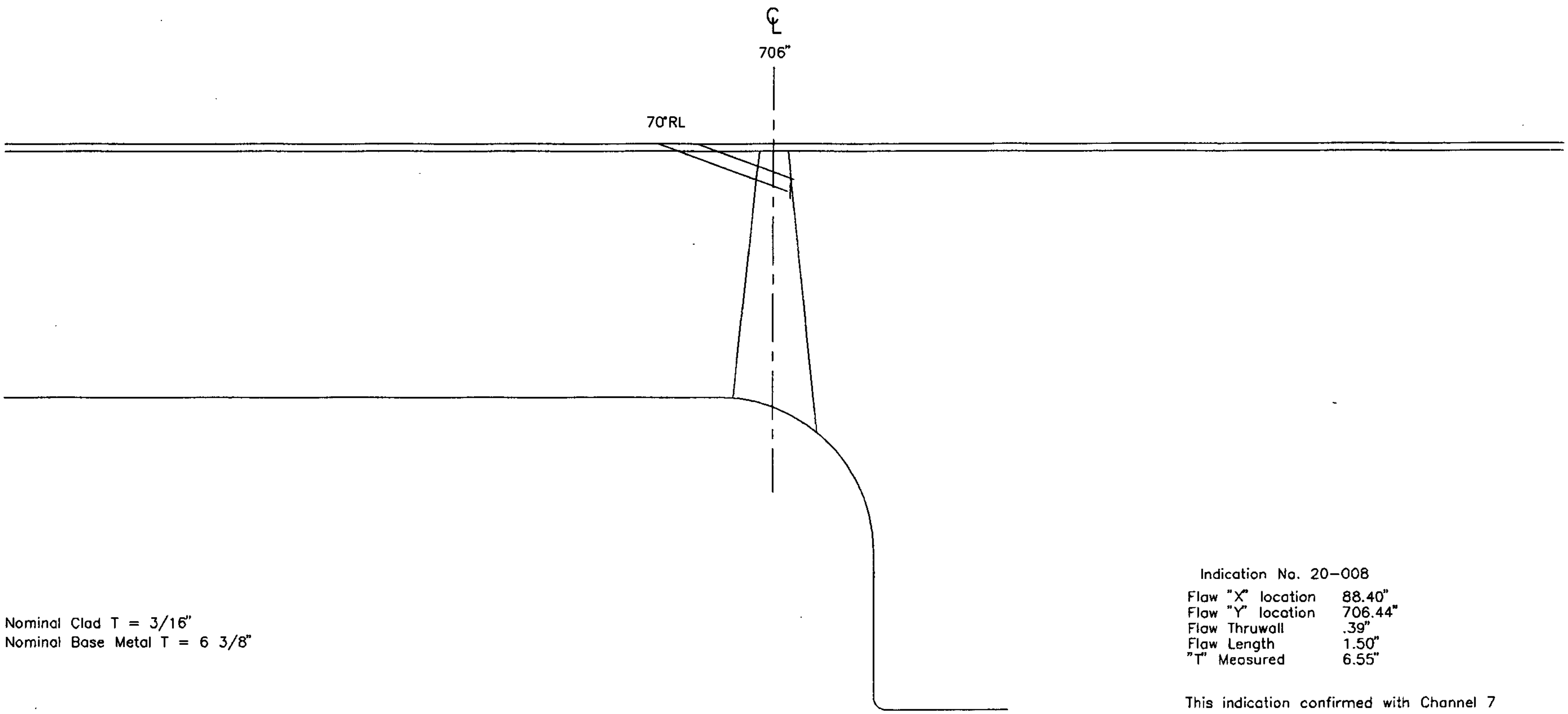

Nominal Clad T = 3/16"
Nominal Base Metal T = 6 3/8"

Indication No. 20-008

Flaw "X" location	88.40"
Flaw "Y" location	706.44"
Flaw Thruwall	.39"
Flaw Length	1.50"
"T" Measured	6.55"

This indication confirmed with Channel 7

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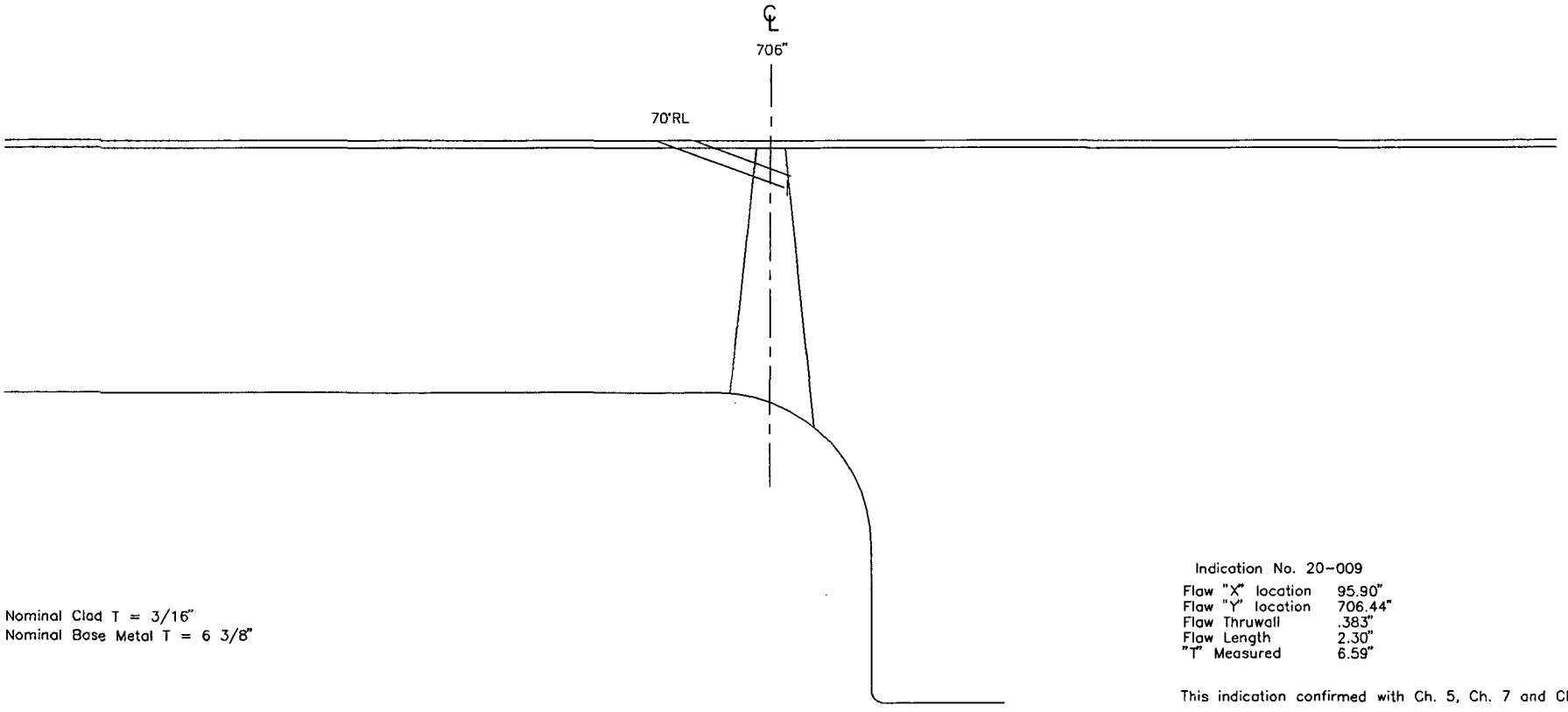
GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	WELD C-5-FLG INDICATION 20-008	SCALE: NONE	DWG. BF3C5FI	REV. 0



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

Indication No. 20-009

Flaw "X" location	95.90"
Flaw "Y" location	706.44"
Flaw Thruwall	.383"
Flaw Length	2.30"
"T" Measured	6.59"

This indication confirmed with Ch. 5, Ch. 7 and Ch. 9

GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	WELD C-5-FLG INDICATION 20-009	SCALE: NONE	DWG. BF3C5FI	REV. 0

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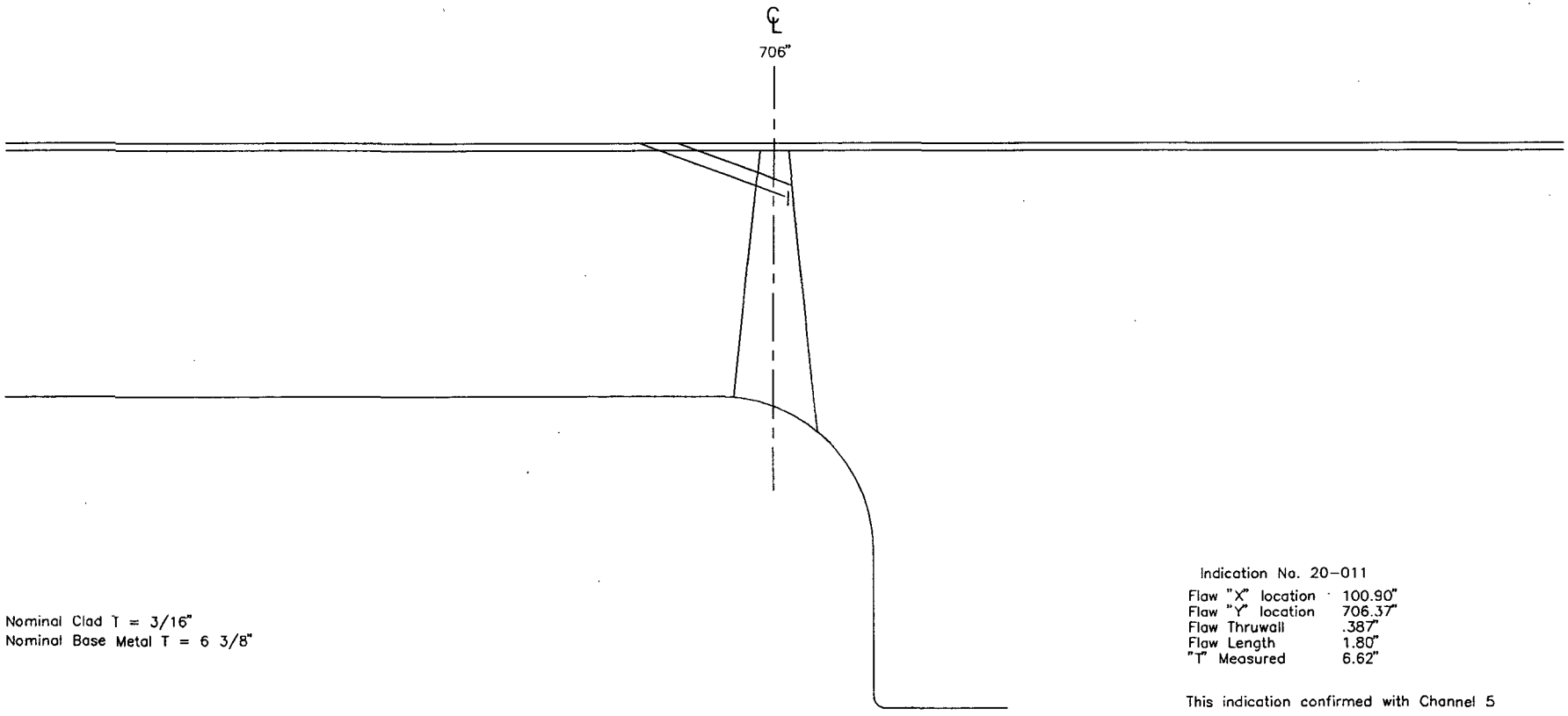

Nominal Clad T = 3/16"
Nominal Base Metal T = 6 3/8"

Indication No. 20-011

Flaw "X" location	100.90"
Flaw "Y" location	706.37"
Flaw Thruwall	.387"
Flaw Length	1.80"
"T" Measured	6.62"

This indication confirmed with Channel 5

GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	WELD C-5-FLG INDICATION 20-011	SCALE: NONE	DWG. BF3C5FI	REV. 0

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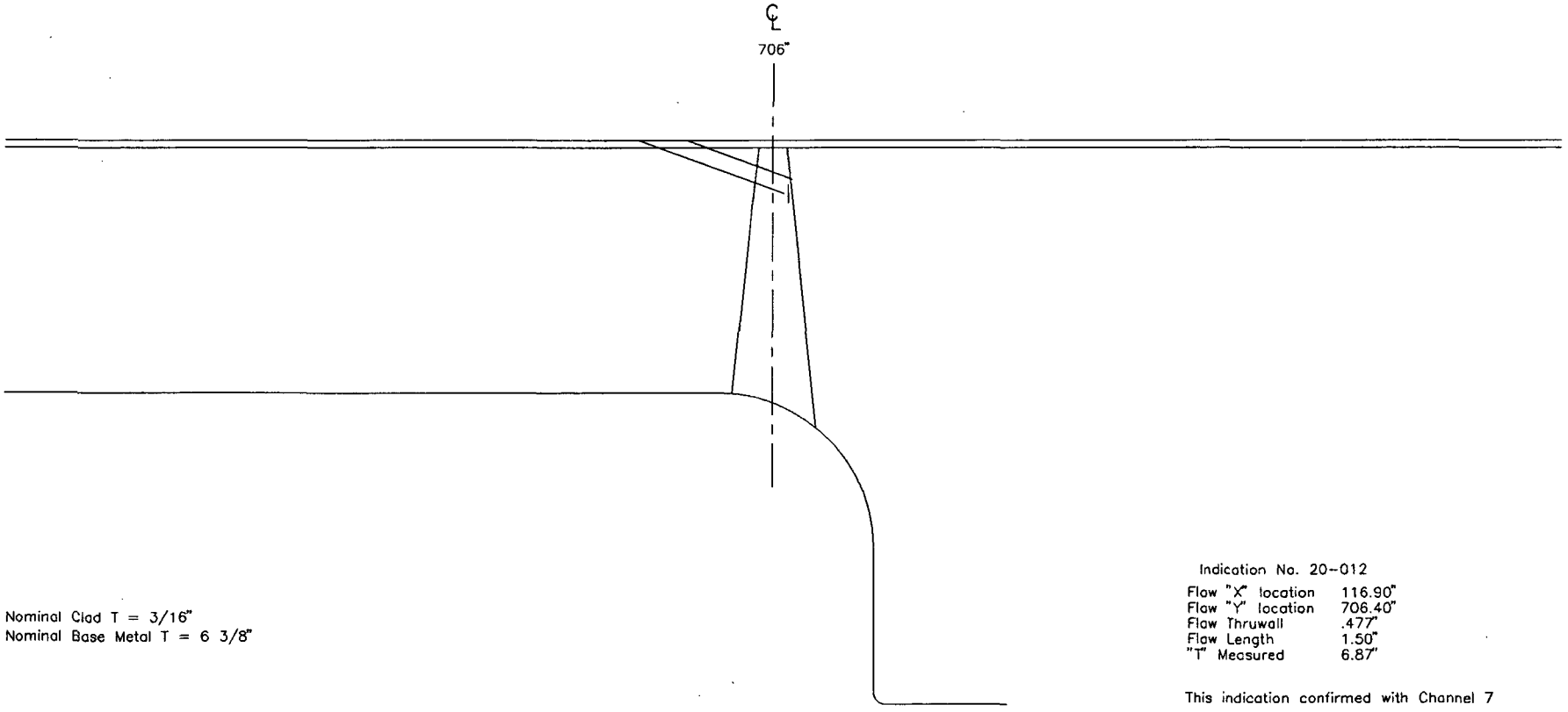

Nominal Clad T = 3/16"
Nominal Base Metal T = 6 3/8"

Indication No. 20-012

Flaw "X" location	116.90"
Flaw "Y" location	706.40"
Flaw Thruwall	.477"
Flaw Length	1.50"
"T" Measured	6.87"

This indication confirmed with Channel 7

GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	WELD C-5-FLG INDICATION 20-012	SCALE: NONE	DWG. BF3C5FI	REV. 0

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GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Exam Data Sheet: E-20-00

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-001	E-20-01	10/3/93	0559	0710	13.00	51.50	692.50	726.25	21A	JCG
BF-002	E-20-02	10/3/93	0834	1027	80.00	144.00	692.50	726.25	20B	ROF
BF-003	E-20-03	10/3/93	1127	1303	169.50	224.00	692.50	726.25	22A	ROF
BF-004	E-20-04	10/3/93	1320	1349	249.00	260.00	692.50	726.25	22A	ROF
BF-005	E-20-05	10/3/93	1356	1541	260.00	320.00	692.50	726.25	22B	ROF
BF-006	E-20-06	10/3/93	1556	1758	320.00	381.00	692.50	726.25	23A	ROF
BF-007	E-20-07	10/3/93	1823	2004	407.25	466.50	692.50	726.25	24B	ROF/JCG
BF-008	E-20-08	10/3/93	2133	2316	466.75	526.50	692.50	726.25	24A	JCG
BF-009	E-20-09	10/3-4/93	2340	0011	526.75	538.00	692.50	726.25	25A	JCG
BF-010	E-20-10	10/7/93	1113	1252	565.00	616.00	692.50	726.25	30B	ROF
BF-011	E-20-11	10/7/93	0847	1029	649.00	706.50	692.50	726.25	29B	ROF
BF-012	E-20-12	10/7/93	0438	0637	706.75	775.50	692.50	726.25	29A/30A	JCG
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Comments:

Limitations: BF-001and BF-002 due to clad patch at 30°.
BF-001, BF-006, BF-007and BF-012 due to guide rods at 0° and 180°.
BF-002, BF-003, BF-004, BF-009, BF-010 and BF-011 due to main steam plug lines at 74°, 110°, 250° and 286°.

Analyst: Lisa Kimball
Level: III Date: 12-20-93

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

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-01
Patch ID: BF-001
Ind. Data Sheet Series: 20-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	20-001 *	20-002 *	~	~	~
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, 2	20-003	20-004	G-115	~	~
10	45 RS	270 CCW	1	20-005	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1, 2	20-006	G-116	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
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Comments: * Indications 20-001 and 20-002 are shown on the same print.

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: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet Series: 20-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	20-007	20-008	20-009	20-010	20-011
				20-012	20-013	20-014	20-015	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	1	20-016	20-017	20-018	20-019	20-020
				20-021	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1	20-022	20-023	20-024	20-025	20-026
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1, 2	20-027	20-028	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	1	20-029	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	2, *	~	~	~	~	~
14	60 RS	270 CCW	NRI*	~	~	~	~	~
15	0 BM	N/A	NRI*	~	~	~	~	~
16	0 BM	N/A	NRI*	~	~	~	~	~
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Comments: * Lift-off
2 = Geometry: flange radius (see G-115 and G-116).

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: 12-20-93

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

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GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-03
Patch ID: BF-003
Ind. Data Sheet Series: 20-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	20-030	~	~	~	~
2	0 WM	N/A	NRI	~	~	~	~	~
3	70 RL	0 UP	1	20-031	20-032	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1	20-033	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1, 2	20-034	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	2	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
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Comments: 2 = Geometry: flange radius (see G-115 and G-116).
Intermittant lift-off throughout this patch.

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: 12-20-93

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

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GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-04
Patch ID: BF-004
Ind. Data Sheet Series: 20-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	20-035	20-036	~	~	~
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	1	20-037	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1, 2	20-038	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	1	20-039	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	2	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
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Comments: 2 = Geometry: flange radius (see G-115 and G-116).

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: Lewis Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet Series: 20-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	20-040	20-041	20-042	20-043	20-044
				20-045	20-046	20-047	20-048	20-049
				20-050	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	NRI	~	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1	20-051	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1, 2	20-052	~	~	~	~
10	45 RS	270 CCW	1	20-053	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1, 2	20-056	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
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Comments: 2 = Geometry: flange radius (see G-115 and G-116).
Indication Data Sheet 20-053 documents indications 20-053 thru 20-055.

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: 12-20-93

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

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E-20-05
WM 7-5-95

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GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-06
Patch ID: BF-006
Ind. Data Sheet Series: 20-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	20-057	~	~	~	~
3	70 RL	0 UP	1	20-058	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	1	20-059	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1	20-060	~	~	~	~
8	45 RS	90 CW	1	20-061	~	~	~	~
9	45 RS	180 DN	2	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	1	20-062	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1, 2	20-063	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
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Comments: 2 = Geometry: flange radius (see G-115 and G-116).

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: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-07
Patch ID: BF-007
Ind. Data Sheet Series: 20-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	20-064	20-065	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	1	20-066	20-067	20-068	20-069	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1, 2	20-070	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1, 2	20-071	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
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Comments: 2 = Geometry: flange radius (see G-115 and G-116).

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: 12-20-93

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

EXAM-DS2 V.1 9/28/93

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GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet Series: 20-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	20-072	~	~	~	~
3	70 RL	0 UP	1	20-075	20-076	20-077	20-078	20-079
				20-080	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	1	20-081	20-082	20-083	20-084	20-085
				20-086	20-087	20-088	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	1	20-089	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1, 2	20-090	20-091	20-093	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	1	20-092	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1, 2	20-094	20-095	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
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Comments: 2 = Geometry: flange radius (see G-115 and G-116).
Indication Data Sheet 20-072 documents indications 20-072, 20-073 and 20-074.

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: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-09
Patch ID: BF-009
Ind. Data Sheet Series: 20-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	20-096	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	2*	~	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	2	20-097	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	2*	~	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
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Comments: 2* = Geometry: flange radius (see G-115 and G-116).

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: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-10
Patch ID: BF-010
Ind. Data Sheet Series: 20-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	20-098	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	1	20-099	~	~	~	~
6	70 RL	270 CCW	NRI, *	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1, 2	20-100	20-101	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI, *	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1, 2	20-102	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
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Comments: 2 = Geometry: flange radius (see G-115 and G-116).
* Lift-off

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: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-11
Patch ID: BF-011
Ind. Data Sheet Series: 20-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	20-103	~	~	~	~
3	70 RL	0 UP	NRI	~	~	~	~	~
4	70 RL	90 CW	NRI	~	~	~	~	~
5	70 RL	180 DN	1	20-104	20-105	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1, 2	20-106	20-107	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1, 2	20-108	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
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Comments: 2 = Geometry: flange radius (see G-115 and G-116).
Lift off throughout patch.

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: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Examination Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-12
Patch ID: BF-012
Ind. Data Sheet Series: 20-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	20-109	~	~	~	~
6	70 RL	270 CCW	NRI	~	~	~	~	~
7	45 RS	0 UP	NRI	~	~	~	~	~
8	45 RS	90 CW	NRI	~	~	~	~	~
9	45 RS	180 DN	1, 2	20-110	~	~	~	~
10	45 RS	270 CCW	NRI	~	~	~	~	~
11	60 RS	0 UP	NRI	~	~	~	~	~
12	60 RS	90 CW	NRI	~	~	~	~	~
13	60 RS	180 DN	1, 2	20-111	~	~	~	~
14	60 RS	270 CCW	NRI	~	~	~	~	~
15	0 BM	N/A	NRI	~	~	~	~	~
16	0 BM	N/A	NRI	~	~	~	~	~
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Comments: 2 = Geometry: flange radius (see G-115 and G-116).

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: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-01
Patch ID: BF-001
Ind. Data Sheet No.: 20-001

Indication: 20-001 & 20-002 **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
26.5%	48.40	~	~	~	~	705.25	33.44	~	~	~	~	20-001
12.0%	48.65	~	~	~	~	705.50	31.36	~	~	~	~	20-001
~	~	~	~	~	~	~	~	~	~	~	~	~
34.6%	49.15	~	~	~	~	705.25	34.64	~	~	~	~	20-002
34.6%	49.40	~	~	~	~	705.50	32.56	~	~	~	~	20-002
18.6%	46.65	~	~	~	~	705.50	32.64	~	~	~	~	20-002
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Comments: No apparent tip signals for either indication.
Both indications shown on the same print.
Indications 20-001 and 20-002 have no determinable thruwall and are acceptable to IWB-3510-1.

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

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-01
Patch ID: BF-001
Ind. Data Sheet No.: 20-003

Indication: 20-003 **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
16.6%	6.65	~	~	~	~	708.25	3.21	~	~	~	~	~
58.8%	6.90	708.00	3.04	~	~	708.25	3.21	~	~	708.75	3.69	~
91.5%	7.15	707.75	2.63	707.75	2.87	708.25	3.21	708.50	3.45	708.75	3.69	~
76.7%	7.40	~	~	707.75	2.83	708.00	3.04	708.50	3.43	708.75	3.69	~
53.8%	7.65	~	~	~	~	708.00	3.01	708.50	3.43	~	~	~
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Comments: Thruwall size was determined by the SPOT technique.

TW = 0.23 L = 1.00 S = 2.16 w/clad

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

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

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-001

Exam Data Sheet No.: E-20-01
Ind. Data Sheet No.: 20-003
Indication: 20-003

Flaw Thruwall Dimension =	0.23
Flaw Length "l" =	1.00
Separation with clad "S" =	2.16
Surface Separation "S" =	1.97

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	2.28	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
			2.28	2.60

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

Flaw is Subsurface

Allowed a/t =	2.60%
a/t =	1.77%

Comments:

EXAM-DS4 V.1 10/3/93

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GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-01
Patch ID: BF-001
Ind. Data Sheet No.: 20-004

Indication: 20-004 **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
70.2%	13.15	~	~	708.50	3.41	708.75	3.59	709.25	3.94	~	~	~
53.8%	13.40	~	~	708.50	3.41	709.00	3.76	709.50	4.12	~	~	~
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Comments: Same indication recorded with Ch. 13 (20-006).
Thruwall size was determined by the SPOT technique.

TW = 0.20 L = 0.25 S = 2.44 w/clad

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

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-001

Exam Data Sheet No.: E-20-01
Ind. Data Sheet No.: 20-004
Indication: 20-004

Flaw Thruwall Dimension =	0.20
Flaw Length "l" =	0.25
Separation with clad "S" =	2.44
Surface Separation "S" =	2.25

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:

EXAM-DS4 V.1 10/3/93

IWB20004.XLS12/19/93

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-01
Patch ID: BF-001
Ind. Data Sheet No.: G-115

Indication: G-115 **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
449.8%	24.40	~	~	~	~	714.75	10.88	~	~	~	~	~
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Comments: OD surface geometry due to flange radius.

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

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-01
Patch ID: BF-001
Ind. Data Sheet No.: 20-005

Indication: 20-005 **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
24.3%	706.50	52.96	2.36	~	~	53.21	2.52	~	~	~	~	~
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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 = 0.25 S = 1.78 w/clad

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

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

EXAM-DS3 V.2 10/22/93

 00101

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-01
Patch ID: BF-001
Ind. Data Sheet No.: 20-006

Indication: 20-006 **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
24.3%	13.04	~	~	~	~	709.95	4.62	710.95	5.47	~	~	~
31.7%	13.29	~	~	709.45	4.28	709.95	4.59	710.95	5.43	~	~	~
34.6%	13.54	~	~	709.95	4.59	710.20	4.76	710.70	5.24	~	~	~
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Comments: Same indication recorded with Ch. 9 (20-004).
Thruwall size was determined by the SPOT technique.

TW = 0.30 L = 0.50 S = 2.23 w/clad

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

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

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-001

Exam Data Sheet No.: E-20-01
Ind. Data Sheet No.: 20-006
Indication: 20-006

Flaw Thruwall Dimension =	0.30
Flaw Length "l" =	0.50
Separation with clad "S" =	2.23
Surface Separation "S" =	2.04

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	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:

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-01
Patch ID: BF-001
Ind. Data Sheet No.: G-116

Indication: G-116 **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
699.8%	22.79	~	~	~	~	717.95	13.30	~	~	~	~	~
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Comments: OD surface geometry due to flange radius.

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

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

EXAM-DS3 V.2 10/22/93

R 1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-007

Indication: 20-007 **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
13.1%	83.40	~	~	~	~	703.75	24.56	~	~	~	~	~
34.6%	83.65	~	~	~	~	703.75	24.40	~	~	~	~	~
45.1%	83.90	~	~	~	~	704.00	22.48	~	~	~	~	~
37.8%	84.15	~	~	~	~	704.00	22.48	~	~	~	~	~
18.6%	84.40	~	~	~	~	704.00	22.56	~	~	~	~	~
18.6%	84.65	~	~	~	~	704.25	20.56	~	~	~	~	~
34.6%	84.90	~	~	~	~	704.00	22.32	~	~	~	~	~
22.2%	85.15	~	~	~	~	704.00	22.24	~	~	~	~	~
13.1%	85.40	~	~	~	~	703.75	24.56	~	~	~	~	~
17.1%	85.65	~	~	~	~	704.00	22.48	~	~	~	~	~
26.5%	85.90	~	~	~	~	703.75	24.56	~	~	~	~	~
24.3%	86.15	~	~	~	~	704.00	22.56	~	~	~	~	~
12.0%	86.40	~	~	~	~	704.00	22.64	~	~	~	~	~
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Comments: This indication is the same as recorded with Ch. 5 (see 20-016).
Thruwall size was determined by the PATT technique.

TW = 0.40 L = 3.25 S = 1.01 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

R 1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-002

Exam Data Sheet No.: E-20-02
Ind. Data Sheet No.: 20-007
Indication: 20-007

Flaw Thruwall Dimension =	0.40
Flaw Length "l" =	3.25
Separation with clad "S" =	1.01
Surface Separation "S" =	0.82

T measured =	6.54
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	2.05	2.27 Y
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
			2.05	2.27

a =	0.200
a/l value =	0.061
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.27%
a/t =	3.05%

Comments:

EXAM-DS4 V.1 10/3/93

00106

R 1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-008

Indication: 20-008 **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
11.0%	87.40	~	~	~	~	703.75	24.40	~	~	~	~	~
15.3%	87.65	~	~	~	~	703.75	24.64	~	~	~	~	~
41.3%	87.90	~	~	~	~	703.75	24.72	~	~	~	~	~
64.3%	88.15	~	~	~	~	703.75	24.72	~	~	~	~	~
41.3%	88.40	~	~	~	~	704.00	22.64	~	~	~	~	~
20.4%	88.65	~	~	~	~	704.00	22.80	~	~	~	~	~
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Comments: Thruwall size was determined by the PATT technique.

TW = 0.39 L = 1.50 S = 1.02 w/clad

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

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

EXAM-DS3 V.2 10/22/93

00107

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-002

Exam Data Sheet No.: E-20-02
Ind. Data Sheet No.: 20-008
Indication: 20-008

Flaw Thruwall Dimension = 0.39
Flaw Length "l" = 1.50
Separation with clad "S" = 1.02
Surface Separation "S" = 0.83

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	2.38	2.74 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
			2.38	2.74

a = 0.196
a/l value = 0.130
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.74%
a/t = 2.98%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-009

Indication: 20-009 **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
14.3%	94.40	~	~	703.75	24.80	~	~	~	~	~	~	~
24.3%	94.65	~	~	703.50	26.72	~	~	~	~	~	~	~
12.0%	94.90	~	~	704.00	22.48	~	~	~	~	~	~	~
14.3%	95.15	~	~	704.25	19.20	~	~	~	~	~	~	~
17.1%	95.40	~	~	704.25	19.20	~	~	~	~	~	~	~
24.3%	95.65	~	~	703.75	24.80	~	~	~	~	~	~	~
34.6%	95.90	~	~	704.00	22.88	~	~	~	~	~	~	~
37.8%	96.15	~	~	703.00	30.48	~	~	~	~	~	~	~
13.1%	96.40	~	~	704.00	22.48	~	~	~	~	~	~	~
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Comments: This indication is the same as recorded with Ch. 5 (see 20-017), Ch. 7 (see 20-023) and Ch. 9 (see 20-027).
Thruwall size was determined by the PATT technique.

TW = 0.38 L = 2.25 S = 1.03 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-002

Exam Data Sheet No.: E-20-02
Ind. Data Sheet No.: 20-009
Indication: 20-009

Flaw Thruwall Dimension =	0.38
Flaw Length "l" =	2.25
Separation with clad "S" =	1.03
Surface Separation "S" =	0.84

T measured =	6.59
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	2.14	2.41 Y
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
			2.14	2.41

a =	0.192
a/l value =	0.085
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.41%
a/t =	2.91%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-010

Indication: 20-010 **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
17.1%	97.40	~	~	~	~	703.75	24.80	~	~	~	~	~
41.3%	97.65	~	~	~	~	703.25	28.64	~	~	~	~	~
22.2%	97.90	~	~	~	~	704.00	22.72	~	~	~	~	~
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Comments: Thruwall size was determined by the PATT technique.

TW = 0.29 L = 0.75 S = 1.03 w/clad

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

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

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-002

Exam Data Sheet No.: E-20-02
Ind. Data Sheet No.: 20-010
Indication: 20-010

Flaw Thruwall Dimension =	0.29
Flaw Length "l" =	0.75
Separation with clad "S" =	1.03
Surface Separation "S" =	0.84

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	2.75	3.23 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
			2.75	3.23

a =	0.144
a/l value =	0.191
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.23%
a/t =	2.25%

Comments:

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3 **Exam Data Sheet No.:** E-20-02
Weld ID: C-5-FLG **Patch ID:** BF-002
Cal. ID: C-001 **Ind. Data Sheet No.:** 20-011

Indication: 20-011 **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
17.1%	100.15	~	~	~	~	703.75	24.48	~	~	~	~	~
27.5%	100.40	~	~	~	~	703.75	24.88	~	~	~	~	~
31.7%	100.65	~	~	~	~	703.75	24.80	~	~	~	~	~
31.7%	100.90	~	~	~	~	703.50	26.56	~	~	~	~	~
26.5%	101.15	~	~	~	~	703.50	26.72	~	~	~	~	~
18.6%	101.40	~	~	~	~	703.50	26.96	~	~	~	~	~
12.0%	101.65	~	~	~	~	703.50	26.88	~	~	~	~	~
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Comments: This indication is the same as recorded with Ch. 5 (see 20-018).
Thruwall size was determined by the PATT technique.

TW = 0.39 L = 1.75 S = 1.23 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-002

Exam Data Sheet No.: E-20-02
Ind. Data Sheet No.: 20-011
Indication: 20-011

Flaw Thruwall Dimension =	0.39
Flaw Length "l" =	1.75
Separation with clad "S" =	1.23
Surface Separation "S" =	1.04

T measured =	6.62
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	2.26	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 =	0.194
a/l value =	0.111
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.58%
a/t =	2.92%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-012

Indication: 20-012 **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
31.7%	116.40	~	~	~	~	703.75	24.64	~	~	~	~	~
45.1%	116.65	~	~	~	~	703.50	26.48	~	~	~	~	~
41.3%	116.90	~	~	~	~	704.25	21.28	~	~	~	~	~
29.0%	117.15	~	~	~	~	704.00	23.20	~	~	~	~	~
24.3%	117.40	~	~	~	~	704.00	23.20	~	~	~	~	~
15.6%	117.65	~	~	~	~	704.50	18.96	~	~	~	~	~
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Comments: Thruwall size was determined by the PATT technique.
This indication is the same as recorded with Ch. 7 (see 20-024).

TW = 0.48 L = 1.50 S = 1.14 w/clad

Analyst: Clarissa Kimball
Level: III Date: 12-20-93

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

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R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-002

Exam Data Sheet No.: E-20-02
Ind. Data Sheet No.: 20-012
Indication: 20-012

Flaw Thruwall Dimension =	0.48
Flaw Length "l" =	1.50
Separation with clad "S" =	1.14
Surface Separation "S" =	0.95

T measured =	6.87
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	2.55	2.97 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
			2.55	2.97

a =	0.239
a/l value =	0.159
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.97%
a/t =	3.47%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-013

Indication: 20-013 **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
17.1%	128.90	~	~	~	~	703.75	24.24	~	~	~	~	~
31.7%	129.15	~	~	~	~	703.50	26.08	~	~	~	~	~
34.6%	129.40	~	~	~	~	703.50	26.24	~	~	~	~	~
29.0%	129.65	~	~	~	~	703.50	26.24	~	~	~	~	~
11.0%	129.90	~	~	~	~	703.50	26.16	~	~	~	~	~
13.1%	130.15	~	~	~	~	703.25	28.64	~	~	~	~	~
29.0%	130.40	~	~	~	~	702.75	32.65	~	~	~	~	~
20.4%	130.65	~	~	~	~	703.00	30.32	~	~	~	~	~
13.1%	130.90	~	~	~	~	704.00	22.48	~	~	~	~	~
18.6%	131.15	~	~	~	~	703.50	26.24	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 5 (see 20-020) and Ch. 7 (see 20-025).

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-014

Indication: 20-014 **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
22.2%	137.15	~	~	~	~	704.50	24.08	~	~	~	~	~
34.6%	137.40	~	~	~	~	704.50	24.16	~	~	~	~	~
41.3%	137.65	~	~	~	~	704.50	24.32	~	~	~	~	~
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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: 12-20-93

EXAM-DS3 V.2 10/22/93

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R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-015

Indication: 20-015 **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
20.9%	145.65	~	~	~	~	703.25	28.96	~	~	~	~	~
31.7%	145.90	~	~	~	~	704.00	22.64	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

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

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

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-016

Indication: 20-016 **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
17.1%	83.35	~	~	~	~	707.95	20.32	~	~	~	~	~
20.4%	83.60	~	~	~	~	708.20	22.32	~	~	~	~	~
15.6%	83.85	~	~	~	~	708.20	22.32	~	~	~	~	~
11.0%	84.10	~	~	~	~	708.20	22.16	~	~	~	~	~
12.0%	84.35	~	~	~	~	707.95	20.40	~	~	~	~	~
17.1%	84.60	~	~	~	~	707.95	20.08	~	~	~	~	~
22.2%	84.85	~	~	~	~	708.20	22.08	~	~	~	~	~
13.1%	85.10	~	~	~	~	708.20	22.00	~	~	~	~	~
15.6%	85.35	~	~	~	~	707.95	20.48	~	~	~	~	~
29.0%	85.60	~	~	~	~	707.95	20.56	~	~	~	~	~
37.8%	85.85	~	~	~	~	707.95	20.56	~	~	~	~	~
15.6%	86.10	~	~	~	~	707.70	18.32	~	~	~	~	~
10.0%	86.35	~	~	~	~	708.20	22.24	~	~	~	~	~
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Comments: This indication is the same as recorded with Ch. 3 (see 20-007).
Thruwall size was determined by the PATT technique.

TW = 0.43 L = 3.25 S = 0.99 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

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00119

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-002

Exam Data Sheet No.: E-20-02
Ind. Data Sheet No.: 20-016
Indication: 20-016

Flaw Thruwall Dimension =	0.43
Flaw Length "l" =	3.25
Separation with clad "S" =	0.99
Surface Separation "S" =	0.80

T measured =	6.54
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	2.06	2.30 Y
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
			2.06	2.30

a =	0.215
a/l value =	0.066
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.30%
a/t =	3.29%

Comments:

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-017

Indication: 20-017 **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
13.1%	94.60	~	~	~	~	707.45	15.60	~	~	~	~	~
17.1%	94.85	~	~	~	~	707.70	17.68	~	~	~	~	~
20.4%	95.10	~	~	~	~	707.70	17.60	~	~	~	~	~
15.6%	95.35	~	~	~	~	707.70	17.84	~	~	~	~	~
11.0%	95.60	~	~	~	~	707.95	19.44	~	~	~	~	~
37.8%	95.85	~	~	~	~	707.45	15.60	~	~	~	~	~
64.3%	96.10	~	~	~	~	707.70	17.68	~	~	~	~	~
17.1%	96.35	~	~	~	~	707.70	18.00	~	~	~	~	~
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Comments: This indication is the same as recorded with Ch. 3 (see 20-009), Ch. 7 (see 20-023) and Ch. 9 (see 20-027).
Thruwall size was determined by the PATT technique.

TW = 0.22 L = 2.00 S = 0.59 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-002

Exam Data Sheet No.: E-20-02
Ind. Data Sheet No.: 20-017
Indication: 20-017

Flaw Thruwall Dimension = 0.22
Flaw Length "l" = 2.00
Separation with clad "S" = 0.59
Surface Separation "S" = 0.40

T measured = 6.59
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	2.02	2.22 Y
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
			2.02	2.22

a = 0.108
a/l value = 0.054
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.22%
a/t = 1.63%

Comments:

EXAM-DS4 V.1 10/3/93

IWB20017.XLS12/20/93

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-018

Indication: 20-018 **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
20.4%	100.10	~	~	~	~	708.45	26.16	~	~	~	~	~
31.7%	100.35	~	~	~	~	708.45	26.08	~	~	~	~	~
22.2%	100.60	~	~	~	~	708.20	23.84	~	~	~	~	~
13.1%	100.85	~	~	~	~	708.20	23.92	~	~	~	~	~
18.6%	101.10	~	~	~	~	708.45	26.08	~	~	~	~	~
13.1%	101.35	~	~	~	~	708.20	24.00	~	~	~	~	~
15.6%	101.60	~	~	~	~	708.20	23.28	~	~	~	~	~
11.0%	101.85	~	~	~	~	708.20	23.28	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 3 (20-011).

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-019

Indication: 20-019 **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
26.5%	126.60	~	~	~	~	709.20	27.52	~	~	~	~	~
29.0%	126.85	~	~	~	~	709.20	27.28	~	~	~	~	~
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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: 12-20-93

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-020

Indication: 20-020 **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
20.4%	130.35	~	~	~	~	709.95	32.24	~	~	~	~	~
31.7%	130.60	~	~	~	~	709.95	32.08	~	~	~	~	~
22.2%	130.85	~	~	~	~	709.95	30.24	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 3 (see 20-013).

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-021

Indication: 20-021 **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
11.0%	136.60	~	~	~	~	709.95	32.40	~	~	~	~	~
24.3%	136.85	~	~	~	~	709.95	32.32	~	~	~	~	~
29.0%	137.10	~	~	~	~	709.95	32.40	~	~	~	~	~
31.7%	137.35	~	~	~	~	709.95	32.40	~	~	~	~	~
15.6%	137.60	~	~	~	~	709.70	30.48	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-022

Indication: 20-022 **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
34.6%	88.21	704.55	2.07	~	~	705.05	1.67	~	~	~	~	~
41.3%	88.46	~	~	~	~	704.80	1.86	~	~	705.05	1.65	~
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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 = 0.25 S = 1.32 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

0471 0000 1239

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-023

Indication: 20-023 **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
18.6%	95.46	~	~	~	~	704.55	2.14	~	~	~	~	~
34.6%	95.71	~	~	~	~	704.55	2.11	~	~	704.80	1.96	~
37.8%	95.96	74.55	2.10	~	~	704.80	1.92	~	~	~	~	~
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Comments: No apparent tip signals.
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
This indication is the same as recorded with Ch. 3 (see 20-009), Ch. 5 (see 20-017) and Ch. 9 (see 20-027).
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

TW = 0.00 L = 0.50 S = 1.36 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-024

Indication: 20-024 **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
22.2%	116.71	~	~	~	~	704.05	2.77	~	~	~	~	~
29.0%	116.96	703.80	2.98	~	~	704.05	2.80	~	~	704.55	2.40	~
41.3%	117.21	~	~	~	~	704.30	2.56	~	~	~	~	~
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Comments: No apparent tip signals.
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
This indication is the same as recorded with Ch. 3 (see 20-012).
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

TW = 0.00 L = 0.50 S = 1.81 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-025

Indication: 20-025 **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
41.3%	128.96	704.55	2.05	~	~	705.05	1.68	~	~	~	~	~
58.8%	129.21	704.55	2.07	~	~	704.80	1.83	~	~	705.05	1.67	~
34.6%	129.46	704.55	2.07	~	~	704.80	1.84	~	~	705.05	1.68	~
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Comments: No apparent tip signals.
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
This indication is the same as recorded with Ch. 3 (see 20-013).
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

TW = 0.00 L = 0.50 S = 1.29 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-026

Indication: 20-026 **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
22.2%	145.71	~	~	~	~	702.05	5.32	~	~	~	~	~
49.3%	145.96	~	~	~	~	701.55	5.86	~	~	~	~	~
53.8%	146.21	~	~	~	~	702.30	5.38	~	~	~	~	~
45.1%	146.46	~	~	~	~	702.30	5.08	~	~	~	~	~
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Comments: Thruwall size was determined by the SPOT technique.
Same indication recorded with Ch. 11 (see 20-029).

TW = 0.25 L = 0.75 S = 2.67

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

12/20/9320-026.XLS

00131

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-002

Exam Data Sheet No.: E-20-02
Ind. Data Sheet No.: 20-26
Indication: 20-26

Flaw Thruwall Dimension =	0.25
Flaw Length "l" =	0.75
Separation with clad "S" =	N/A
Surface Separation "S" =	2.67

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:

EXAM-DS4 V.1 10/3/93

00132

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-027

Indication: 20-027 **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
20.4%	95.40	~	~	~	~	707.50	2.06	~	~	~	~	~
29.0%	95.65	707.00	1.58	~	~	707.25	1.85	~	~	707.75	2.23	~
34.6%	95.90	707.25	1.85	~	~	707.50	2.06	~	~	707.75	2.06	~
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Comments: No apparent tip signals.
Thruwall size was determined by the Reg.Guide 20% beam spread correction method.
This indication is the same as recorded with Ch. 3 (see 20-009), Ch. 5 (see 20-017) and Ch. 7 (see 20-023).
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

TW = 0.00 L = 0.50 S = 1.46 w/clad

Analyst: Denise Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

 * 00133

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-028

Indication: 20-028 **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
20.4%	128.15	~	~	~	~	709.25	5.01	~	~	170.25	5.80	~
24.3%	128.40	708.75	4.67	~	~	709.50	5.21	~	~	710.25	5.78	~
15.6%	128.65	709.00	4.85	~	~	709.50	5.19	~	~	710.00	5.58	~
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Comments: Thruwall size was determined by the SPOT technique.

TW = 0.23 L = 0.50 S = 2.80

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

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-002

Exam Data Sheet No.: E-20-02
Ind. Data Sheet No.: 20-28
Indication: 20-28

Flaw Thruwall Dimension =	0.23
Flaw Length "l" =	0.50
Separation with clad "S" =	N/A
Surface Separation "S" =	2.80

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	3.10	3.60 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
			3.10	3.60

a =	0.115
a/l value =	0.230
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.60%
a/t =	1.80%

Comments:

EXAM-DS4 V.1 10/3/93

00135

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R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-02
Patch ID: BF-002
Ind. Data Sheet No.: 20-029

Indication: 20-029 **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
45.1%	145.85	~	~	699.30	7.65	699.80	7.16	701.80	5.48	~	~	~
53.8%	146.10	~	~	699.55	7.46	699.80	7.18	702.30	4.99	~	~	~
45.1%	146.35	~	~	699.80	7.18	701.80	5.46	~	~	~	~	~
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Comments: No apparent tip signals.
This indication located in a lift-off area.
Same indication recorded with Ch. 7, (20-026).
Thruwalll determined by the SPOT technique from Ch. 7 (20-026).
Dimensions below assigned from Indication Data Sheet 20-026.
TW = 0.25 L = 0.75 S = 2.67

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

12/20/9320-029.XLS

00136

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-002

Exam Data Sheet No.: E-20-02
Ind. Data Sheet No.: 20-29
Indication: 20-29

Flaw Thruwall Dimension =	0.25
Flaw Length "l" =	0.75
Separation with clad "S" =	N/A
Surface Separation "S" =	2.67

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: Flaw dimensions assigned from Indication Data Sheet 20-026.

B1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-03
Patch ID: BF-003
Ind. Data Sheet No.: 20-030

Indication: 20-030 **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
64.3%	206.21	~	~	~	~	706.20	3.76	~	~	~	~	~
119.4%	206.46	~	~	~	~	706.20	3.72	~	~	~	~	~
142.4%	206.71	~	~	~	~	706.20	3.70	~	~	~	~	~
53.8%	206.96	~	~	~	~	706.20	3.70	~	~	~	~	~
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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: 12-20-93

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

EXAM-DS3 V.2 10/22/93

00138

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-03
Patch ID: BF-003
Ind. Data Sheet No.: 20-031

Indication: 20-031 **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
22.2%	180.90	~	~	~	~	703.75	24.08	~	~	~	~	~
26.5%	181.15	~	~	~	~	704.00	22.24	~	~	~	~	~
83.8%	181.40	~	~	~	~	704.00	22.00	~	~	~	~	~
29.0%	181.65	~	~	~	~	704.00	22.24	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Laura Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-03
Patch ID: BF-003
Ind. Data Sheet No.: 20-032

Indication: 20-032 **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
29.0%	209.40	~	~	~	~	704.25	19.68	~	~	~	~	~
29.0%	209.65	~	~	~	~	704.25	19.52	~	~	~	~	~
20.4%	209.90	~	~	~	~	704.00	21.44	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

Reviewed By: R.O. Forman
Level: II Date: 12.20.93

B1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-03
Patch ID: BF-003
Ind. Data Sheet No.: 20-033

Indication: 20-033 **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
10.0%	210.21	~	~	~	~	702.55	7.32	~	~	~	~	~
17.1%	210.46	~	~	~	~	702.55	7.30	~	~	~	~	~
24.3%	210.71	~	~	702.30	7.50	702.55	7.28	~	~	~	~	~
29.0%	210.96	~	~	701.55	8.04	702.55	7.28	702.80	7.07	~	~	~
18.6%	211.21	~	~	~	~	702.30	7.46	~	~	~	~	~
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Comments: Thruwall size was determined by the SPOT technique.
Recorded at less than ASME required levels due to apparent tip diffracted signals.

TW = 0.21 L = 1.00 S = 1.35

Analyst: Alesa Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-003

Exam Data Sheet No.: E-20-03
Ind. Data Sheet No.: 20-33
Indication: 20-33

Flaw Thruwall Dimension = 0.21
Flaw Length "l" = 1.00
Separation with clad "S" = N/A
Surface Separation "S" = 1.35

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	2.23	2.54 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
			2.23	2.54

a = 0.105
a/l value = 0.105
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.54%
a/t = 1.65%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-03
Patch ID: BF-003
Ind. Data Sheet No.: 20-034

Indication: 20-034 **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
11.0%	170.90	~	~	~	~	710.75	5.71	711.25	6.09	~	~	~
15.6%	171.15	~	~	710.25	5.40	710.75	5.74	712.75	7.24	~	~	~
20.4%	171.40	~	~	710.75	5.73	711.50	6.27	712.75	7.25	~	~	~
13.1%	171.65	~	~	711.00	5.92	711.50	6.25	712.50	7.04	~	~	~
7.0%	171.90	~	~	~	~	711.50	6.25	~	~	~	~	~
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Comments: Thruwall size was determined by the SPOT technique.
Recorded at less than ASME required levels due to apparent tip diffracted signals.

TW = 0.24 L = 1.00 S = 2.05

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

00143

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-003

Exam Data Sheet No.: E-20-03
Ind. Data Sheet No.: 20-34
Indication: 20-34

Flaw Thruwall Dimension =	0.24
Flaw Length "l" =	1.00
Separation with clad "S" =	N/A
Surface Separation "S" =	2.05

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:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-04
Patch ID: BF-004
Ind. Data Sheet No.: 20-035

Indication: 20-035 **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
170.0%	708.30	~	~	248.15	5.88	248.40	5.88	248.90	5.88	~	~	~
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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: Laura Kimball
Level: III Date: 12-20-93

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

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R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-04
Patch ID: BF-004
Ind. Data Sheet No.: 20-036

Indication: 20-036 **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
64.3%	709.30	~	~	248.15	6.21	248.40	6.21	248.90	6.21	~	~	~
58.8%	709.55	~	~	248.15	6.25	248.40	6.25	~	~	~	~	~
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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: 12-20-93

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

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R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-04
Patch ID: BF-004
Ind. Data Sheet No.: 20-037

Indication: 20-037 **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
9.2%	254.46	~	~	~	~	703.05	4.38	~	~	~	~	~
13.1%	254.71	~	~	702.55	4.79	703.05	4.33	703.30	4.18	~	~	~
10.0%	254.96	~	~	702.80	4.53	703.30	4.17	~	~	~	~	~
7.0%	255.21	~	~	~	~	702.80	4.53	~	~	~	~	~
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Comments: Thruwall size was determined by the SPOT technique.
Recorded at less than ASME required levels due to apparent tip diffracted signals.

TW = 0.23 L = 0.75 S = 2.95 w/clad

Analyst: Deusa Kimball
Level: III Date: 12-20-93

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

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R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-004

Exam Data Sheet No.: E-20-04
Ind. Data Sheet No.: 20-037
Indication: 20-037

Flaw Thruwall Dimension =	0.23
Flaw Length "l" =	0.75
Separation with clad "S" =	2.95
Surface Separation "S" =	2.76

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	2.52	2.93 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
			2.52	2.93

a =	0.115
a/l value =	0.153
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.93%
a/t =	1.80%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-04
Patch ID: BF-004
Ind. Data Sheet No.: 20-038

Indication: 20-038 **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
17.1%	241.65	~	~	709.25	4.90	709.75	5.27	~	~	~	~	~
22.2%	241.90	~	~	709.00	4.70	709.75	5.25	710.00	5.45	~	~	~
15.6%	242.15	~	~	709.00	4.70	709.50	5.05	709.75	5.25	~	~	~
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Comments: Thruwall size was determined by the SPOT technique.
Recorded at less than ASME required levels due to apparent tip diffracted signals.

TW = 0.21 L = 0.50 S = 2.78

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-004

Exam Data Sheet No.: E-20-04
Ind. Data Sheet No.: 20-38
Indication: 20-38

Flaw Thruwall Dimension = 0.21
Flaw Length "l" = 0.50
Separation with clad "S" = N/A
Surface Separation "S" = 2.78

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	2.90	3.40 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
			2.90	3.40

a = 0.105
a/l value = 0.210
Y = 1.000

Flaw is Subsurface

Allowed a/t = 3.40%
a/t = 1.65%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-04
Patch ID: BF-004
Ind. Data Sheet No.: 20-039

Indication: 20-039 **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
29.0%	265.35	703.55	4.00	~	~	704.05	3.55	~	~	~	~	~
26.5%	265.60	704.05	3.53	~	~	704.30	3.31	~	~	~	~	~
58.8%	265.85	703.80	3.76	704.05	3.53	704.30	3.26	704.55	3.09	704.80	2.56	~
83.8%	266.10	703.80	3.76	~	~	704.30	3.28	704.55	3.09	704.80	2.88	~
29.0%	266.35	~	~	~	~	704.30	3.31	~	~	~	~	~
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Comments: No apparent tip signals.
Thruwall size was determined by the ASME 50% method.

TW = 0.22 L = 1.00 S = 1.53 w/clad

Analyst: Deera Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-004

Exam Data Sheet No.: E-20-04
Ind. Data Sheet No.: 20-039
Indication: 20-039

Flaw Thruwall Dimension = 0.22
Flaw Length "l" = 1.00
Separation with clad "S" = 1.53
Surface Separation "S" = 1.34

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 = 0.110
a/l value = 0.110
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.58%
a/t = 1.72%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-040

Indication: 20-040 **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
26.5%	262.15	~	~	~	~	704.00	22.64	~	~	~	~	~
17.1%	262.40	~	~	~	~	704.25	20.48	~	~	~	~	~
20.4%	262.65	~	~	~	~	704.00	22.48	~	~	~	~	~
17.1%	262.90	~	~	~	~	704.00	22.48	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-041

Indication: 20-041 **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
11.0%	264.40	~	~	~	~	703.75	25.20	~	~	~	~	~
24.3%	264.65	~	~	~	~	703.75	25.20	~	~	~	~	~
22.2%	264.90	~	~	~	~	703.50	27.20	~	~	~	~	~
22.2%	265.15	~	~	~	~	703.50	27.20	~	~	~	~	~
18.6%	265.40	~	~	~	~	704.25	20.56	~	~	~	~	~
20.4%	265.65	~	~	~	~	704.00	22.64	~	~	~	~	~
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Comments: Thruwall size was determined by the PATT technique.

TW = 0.31 L = 1.50 S = 1.14 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-005

Exam Data Sheet No.: E-20-05
Ind. Data Sheet No.: 20-041
Indication: 20-041

Flaw Thruwall Dimension =	0.31
Flaw Length "l" =	1.50
Separation with clad "S" =	1.14
Surface Separation "S" =	0.95

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	2.21	2.52 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
			2.21	2.52

a =	0.153
a/l value =	0.102
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.52%
a/t =	2.40%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-042

Indication: 20-042 **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
26.5%	265.15	~	~	~	~	702.25	44.88	~	~	~	~	~
45.1%	265.40	~	~	~	~	702.00	46.80	~	~	~	~	~
58.8%	265.65	~	~	~	~	702.25	44.72	~	~	~	~	~
64.3%	265.90	~	~	~	~	702.00	46.96	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-043

Indication: 20-043 **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
10.0%	265.15	~	~	~	~	703.75	33.76	~	~	~	~	~
20.4%	265.40	~	~	~	~	703.75	33.28	~	~	~	~	~
24.3%	265.65	~	~	~	~	703.75	32.88	~	~	~	~	~
29.0%	265.90	~	~	~	~	704.00	31.04	~	~	~	~	~
58.8%	266.15	~	~	~	~	704.00	31.04	~	~	~	~	~
37.8%	266.40	~	~	~	~	704.00	31.04	~	~	~	~	~
20.4%	266.65	~	~	~	~	704.00	31.36	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 7 (see 20-051).

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-044

Indication: 20-044 **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
11.0%	266.15	~	~	~	~	703.75	25.28	~	~	~	~	~
49.3%	266.40	~	~	~	~	703.75	25.44	~	~	~	~	~
37.8%	266.65	~	~	~	~	704.25	20.48	~	~	~	~	~
31.7%	266.90	~	~	~	~	704.00	22.80	~	~	~	~	~
45.1%	267.15	~	~	~	~	704.00	22.88	~	~	~	~	~
26.5%	267.40	~	~	~	~	704.00	23.04	~	~	~	~	~
22.2%	267.65	~	~	~	~	704.25	20.80	~	~	~	~	~
22.2%	267.90	~	~	~	~	704.00	23.12	~	~	~	~	~
13.1%	268.15	~	~	~	~	704.00	23.44	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-045

Indication: 20-045 **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
18.6%	264.90	~	~	~	~	705.75	37.38	~	~	~	~	~
45.1%	265.15	~	~	~	~	705.75	36.96	~	~	~	~	~
49.3%	265.40	~	~	~	~	705.75	37.12	~	~	~	~	~
100.0%	265.65	~	~	~	~	705.50	39.12	~	~	~	~	~
130.3%	265.90	~	~	~	~	705.75	35.92	~	~	~	~	~
344.7%	266.15	~	~	~	~	705.50	38.40	~	~	~	~	~
70.2%	266.40	~	~	~	~	705.50	38.32	~	~	~	~	~
29.0%	266.65	~	~	~	~	705.50	39.52	~	~	~	~	~
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Comments: Thruwall size was determined by the PATT technique.
This indication is the same as recorded with Ch. 7 (see 20-051).

TW = 0.27 L = 2.00 S = 1.69 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-005

Exam Data Sheet No.: E-20-05
Ind. Data Sheet No.: 20-045
Indication: 20-045

Flaw Thruwall Dimension =	0.27
Flaw Length "l" =	2.00
Separation with clad "S" =	1.69
Surface Separation "S" =	1.50

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	2.07	2.31 Y
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
			2.07	2.31

a =	0.136
a/l value =	0.068
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.31%
a/t =	2.13%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-046

Indication: 20-046 **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
10.0%	268.65	~	~	~	~	704.25	20.80	~	~	~	~	~
29.0%	268.90	~	~	~	~	704.25	20.72	~	~	~	~	~
41.3%	269.15	~	~	~	~	704.25	20.72	~	~	~	~	~
18.6%	269.40	~	~	~	~	704.00	22.96	~	~	~	~	~
17.1%	269.65	~	~	~	~	704.00	22.96	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-047

Indication: 20-047 **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
15.6%	292.40	~	~	~	~	704.25	21.12	~	~	~	~	~
34.6%	292.65	~	~	~	~	704.25	20.88	~	~	~	~	~
24.3%	292.90	~	~	~	~	704.50	18.80	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-048

Indication: 20-048 **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
34.6%	296.65	~	~	~	~	702.75	32.80	~	~	~	~	~
37.8%	296.90	~	~	~	~	703.50	26.88	~	~	~	~	~
53.8%	297.15	~	~	~	~	703.50	26.88	~	~	~	~	~
49.3%	297.40	~	~	~	~	703.50	26.80	~	~	~	~	~
24.3%	297.65	~	~	~	~	703.50	26.88	~	~	~	~	~
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Comments: Thruwall size was determined by the PATT technique.

TW = 0.33 L = 1.25 S = 0.89 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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B1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-005

Exam Data Sheet No.: E-20-05
Ind. Data Sheet No.: 20-048
Indication: 20-048

Flaw Thruwall Dimension =	0.33
Flaw Length "l" =	1.25
Separation with clad "S" =	0.89
Surface Separation "S" =	0.70

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	2.40	2.77 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
			2.40	2.77

a =	0.167
a/l value =	0.134
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.77%
a/t =	2.62%

Comments:

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-049

Indication: 20-049 **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
14.3%	303.65	~	~	~	~	704.75	23.60	~	~	~	~	~
29.0%	303.90	~	~	~	~	705.25	18.64	~	~	~	~	~
45.1%	304.15	~	~	~	~	705.00	21.04	~	~	~	~	~
24.3%	304.40	~	~	~	~	705.20	16.56	~	~	~	~	~
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Comments: Thruwall size was determined by the PATT technique.

TW = 0.17 L = 1.00 S = 0.76 w/clad

Analyst: Alesa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-005

Exam Data Sheet No.: E-20-05
Ind. Data Sheet No.: 20-049
Indication: 20-049

Flaw Thruwall Dimension =	0.17
Flaw Length "l" =	1.00
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	2.13	2.40 Y
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
			2.13	2.40

a =	0.084
a/l value =	0.084
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.40%
a/t =	1.31%

Comments:

0671 0000 1278

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-050

Indication: 20-050 **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
31.7%	304.65	~	~	~	~	703.25	28.72	~	~	~	~	~
31.7%	304.90	~	~	~	~	703.25	28.72	~	~	~	~	~
29.0%	305.15	~	~	~	~	703.50	26.48	~	~	~	~	~
20.4%	305.40	~	~	~	~	704.00	22.88	~	~	~	~	~
18.6%	305.65	~	~	~	~	704.00	22.80	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-051

Indication: 20-051 **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
20.4%	265.21	~	~	~	~	705.05	2.69	~	~	~	~	~
41.3%	265.46	~	~	~	~	704.80	2.91	~	~	705.05	2.61	~
58.8%	265.71	704.55	3.05	704.80	2.81	705.05	2.61	~	~	~	~	~
91.5%	265.96	704.55	3.05	~	~	704.80	2.86	705.05	2.64	~	~	~
31.7%	266.21	~	~	~	~	704.80	2.83	705.05	2.64	~	~	~
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Comments: This indication is the same as recorded with Ch. 3 (see 20-042, 20-043, and 20-045).
This indication also seen with Ch. 10 at less than recordable ASME DAC level.
Thruwall size was determined by the ASME 50% method.

TW = 0.12 L = 1.00 S = 1.96 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

B1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-005

Exam Data Sheet No.: E-20-05
Ind. Data Sheet No.: 20-051
Indication: 20-051

Flaw Thruwall Dimension = 0.12
Flaw Length "l" = 1.00
Separation with clad "S" = 1.96
Surface Separation "S" = 1.77

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	2.04	2.26 Y
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
			2.04	2.26

a = 0.060
a/l value = 0.060
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.26%
a/t = 0.94%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-052

Indication: 20-052 **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
10.0%	297.90	~	~	~	~	711.25	6.12	~	~	~	~	~
18.6%	298.15	~	~	~	~	711.25	6.12	711.50	6.28	~	~	~
24.3%	298.40	~	~	710.75	5.71	711.25	6.06	711.50	6.30	~	~	~
22.2%	298.65	~	~	710.75	5.71	711.00	5.88	711.50	6.25	~	~	~
22.2%	298.90	~	~	~	~	711.00	5.90	~	~	~	~	~
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Comments: This indication is the same as recorded with Ch. 13 (see 20-056).
Thruwall size was determined by the SPOT technique.
Recorded at less than ASME required levels due to apparent tip diffracted signals.

TW = 0.20 L = 1.00 S = 2.22

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-005

Exam Data Sheet No.: E-20-05
Ind. Data Sheet No.: 20-052
Indication: 20-052

Flaw Thruwall Dimension = 0.20
Flaw Length "l" = 1.00
Separation with clad "S" = N/A
Surface Separation "S" = 2.22

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	2.20	2.49 Y
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
			2.20	2.49

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

Flaw is Subsurface

Allowed a/t = 2.49%
a/t = 1.55%

Comments:

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-053

Indication: 20-053 thru 20-055 **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
10.0%	705.75	~	~	~	~	286.46	4.32	~	~	~	~	20-053
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5.9%	706.25	~	~	~	~	285.46	4.32	~	~	~	~	20-054
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7.7%	706.50	~	~	~	~	287.46	6.12	~	~	~	~	20-055
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Comments: Indications above were recorded at less than required ASME DAC level, at max point only due to their proximity to each other.
These indications also seen with Ch. 14 at less than recordable ASME DAC levels.
Recorded for information only.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-05
Patch ID: BF-005
Ind. Data Sheet No.: 20-056

Indication: 20-056 **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
49.3%	298.04	~	~	~	~	714.95	9.27	~	~	~	~	~
58.8%	298.29	~	~	~	~	714.95	9.27	715.20	9.51	~	~	~
53.8%	298.54	~	~	~	~	714.20	8.60	715.20	9.51	~	~	~
41.3%	298.79	~	~	~	~	714.20	8.57	~	~	~	~	~
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Comments: No apparent tip signals.
This indication is the same as recorded with Ch. 9 (20-052).
Thruwall size was determined by the ASME 50% method.

TW = 0.47 L = 0.75 S = 1.73

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-005

Exam Data Sheet No.: E-20-05
Ind. Data Sheet No.: 20-56
Indication: 20-56

Flaw Thruwall Dimension = 0.47
Flaw Length "l" = 0.75
Separation with clad "S" = N/A
Surface Separation "S" = 1.73

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	3.96	4.59 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
			3.96	4.59

a = 0.235
a/l value = 0.313
Y = 1.000

Flaw is Subsurface

Allowed a/t = 4.59%
a/t = 3.68%

Comments:

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EXAM-DX4.XLS12/19/93

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GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-06
Patch ID: BF-006
Ind. Data Sheet No.: 20-057

Indication: 20-057 **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
100.00	708.80	~	~	359.15	4.66	359.40	4.66	359.90	4.60	~	~	~
53.80	709.05	~	~	~	~	359.15	4.69	359.40	4.64	~	~	~
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Comments: Indication evaluated as a laminar reflector and is acceptable in accordance wirh IWB-3510-2, ASME Section XI, 1986 Edition, no Addenda.

Analyst: Cassa Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-06
Patch ID: BF-006
Ind. Data Sheet No.: 20-058

Indication: 20-058 **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
11.0%	362.90	~	~	~	~	704.50	22.64	~	~	~	~	~
24.3%	363.15	~	~	~	~	704.25	24.88	~	~	~	~	~
29.0%	363.40	~	~	~	~	704.50	22.32	~	~	~	~	~
17.1%	363.65	~	~	~	~	704.50	22.56	~	~	~	~	~
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Comments: No apparent tip signals.
This indication is the same as recorded with Ch. 5 (see 20-059), Ch. 11 (see 20-062) and Ch. 13 (see 20-063).
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-06
Patch ID: BF-006
Ind. Data Sheet No.: 20-059

Indication: 20-059 **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
29.0%	362.60	~	~	~	~	709.45	28.48	~	~	~	~	~
64.3%	362.85	~	~	~	~	709.45	28.24	~	~	~	~	~
76.7%	363.10	~	~	~	~	709.70	30.16	~	~	~	~	~
41.3%	363.35	~	~	~	~	709.70	30.32	~	~	~	~	~
18.6%	363.60	~	~	~	~	709.70	30.56	~	~	~	~	~
20.4%	363.85	~	~	~	~	709.70	30.24	~	~	~	~	~
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Comments: This indication is the same as seen with Ch. 3 (see 20-058), Ch. 11 (see 20-062) and Ch. (see 20-063). Thruwall size was determined by the PATT technique.

TW = 0.34 L = 1.25 S = 1.36 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-006

Exam Data Sheet No.: E-20-06
Ind. Data Sheet No.: 20-059
Indication: 20-059

Flaw Thruwall Dimension = 0.34
Flaw Length "l" = 1.25
Separation with clad "S" = 1.36
Surface Separation "S" = 1.17

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	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 = 0.170
a/l value = 0.136
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.79%
a/t = 2.66%

Comments:

81151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-06
Patch ID: BF-006
Ind. Data Sheet No.: 20-060

Indication: 20-060 **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
58.8%	363.71	~	~	~	~	696.05	9.11	~	~	~	~	~
58.8%	363.96	~	~	696.30	8.92	696.05	9.14	695.80	9.30	~	~	~
53.8%	364.21	~	~	~	~	696.30	8.92	695.80	9.30	~	~	~
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Comments: No apparent tip signals.
Thruwall size was determined by the ASME 50% method.

TW = 0.27 L = 0.50 S = 0.00

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-006

Exam Data Sheet No.: E-20-06
Ind. Data Sheet No.: 20-60
Indication: 20-60

Flaw Thruwall Dimension =	0.27
Flaw Length "l" =	0.50
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	~	~
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	0.00

a =	0.270
a/l value =	0.500
Y =	0.000

Flaw is Surface

Allowed a/t =	5.20%
a/t =	4.23%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-06
Patch ID: BF-006
Ind. Data Sheet No.: 20-061

Indication: 20-061 **Channel:** 8 **Angle:** 45 **Direction:** 90

Amp.	Y	20% Min X	MP	50% Min X	MP	@ Max X	MP	50% Max X	MP	20% Max X	MP	Remarks
17.1%	705.80	~	~	365.54	3.65	365.79	3.47	366.04	3.28	~	~	~
24.3%	706.05	~	~	365.29	3.65	365.79	3.24	366.04	3.05	~	~	~
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Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the SPOT technique.

TW = 0.21 L = 0.25 S = 2.19 w/clad

Analyst: Laura Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-006

Exam Data Sheet No.: E-20-06
Ind. Data Sheet No.: 20-061
Indication: 20-061

Flaw Thruwall Dimension =	0.21
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	~	~
0.40	5.00	5.8	5.05	6.23 Y
0.45	5.10	6.7	~	~
0.50	5.20	7.6	~	~
			Allowed	Allowed
			5.05	6.23

a =	0.106
a/l value =	0.424
Y =	1.000

Flaw is Subsurface

Allowed a/t =	6.23%
a/t =	1.66%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-06
Patch ID: BF-006
Ind. Data Sheet No.: 20-062

Indication: 20-062 **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
20.4%	362.85	~	~	~	~	703.05	3.37	~	~	~	~	~
26.5%	363.10	702.55	3.88	~	~	703.30	3.18	~	~	704.05	2.59	~
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Comments: This indication is the same as recorded with Ch. 3 (see 20-058), Ch. 5 (see 20-059), and Ch. 13 (see 20-063).
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 = 0.25 S = 1.59 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-06
Patch ID: BF-006
Ind. Data Sheet No.: 20-063

Indication: 20-063 **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
15.6%	362.54	~	~	~	~	709.45	3.31	~	~	~	~	~
41.3%	362.79	708.95	2.87	~	~	709.45	3.31	~	~	709.70	3.53	~
53.8%	363.04	708.45	2.39	709.45	3.35	709.70	3.55	~	~	710.20	4.00	~
49.3%	363.29	708.45	2.39	~	~	709.20	3.11	~	~	710.20	4.06	~
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Comments: No apparent tip signals.
This indication is the same as recorded with Ch. 3 (see 20-058), Ch. 5 (see 20-059) and Ch. 11 (see 20-062).
Thruwall size was determined by the ASME 50% method.

TW = 0.10 L = 0.75 S = 1.73 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

00183

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-006

Exam Data Sheet No.: E-20-06
Ind. Data Sheet No.: 20-063
Indication: 20-063

Flaw Thruwall Dimension =	0.10
Flaw Length "l" =	0.75
Separation with clad "S" =	1.73
Surface Separation "S" =	1.54

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	2.07	2.30 Y
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
			2.07	2.30

a =	0.050
a/l value =	0.067
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.30%
a/t =	0.78%

Comments:

81151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-07
Patch ID: BF-007
Ind. Data Sheet No.: 20-064

Indication: 20-064 **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
18.6%	412.40	~	~	~	~	704.50	22.00	~	~	~	~	~
12.0%	412.65	~	~	~	~	704.50	22.16	~	~	~	~	~
13.1%	412.90	~	~	~	~	704.50	22.24	~	~	~	~	~
41.3%	413.15	~	~	~	~	704.50	22.16	~	~	~	~	~
14.3%	413.40	~	~	~	~	704.50	22.24	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-07
Patch ID: BF-007
Ind. Data Sheet No.: 20-065

Indication: 20-065 **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
22.2%	428.40	~	~	~	~	703.75	24.00	~	~	~	~	~
49.3%	428.65	~	~	~	~	704.00	21.68	~	~	~	~	~
53.8%	428.90	~	~	~	~	704.00	21.44	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Deena Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

00186

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-07
Patch ID: BF-007
Ind. Data Sheet No.: 20-066

Indication: 20-066 **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
18.6%	450.60	~	~	~	~	708.95	24.56	~	~	~	~	~
22.2%	450.85	~	~	~	~	709.70	29.92	~	~	~	~	~
20.4%	451.10	~	~	~	~	708.95	24.40	~	~	~	~	~
22.2%	451.35	~	~	~	~	708.70	22.32	~	~	~	~	~
24.3%	451.60	~	~	~	~	708.70	22.64	~	~	~	~	~
20.4%	451.85	~	~	~	~	708.70	22.88	~	~	~	~	~
22.2%	452.10	~	~	~	~	709.70	30.56	~	~	~	~	~
34.6%	452.35	~	~	~	~	709.95	32.88	~	~	~	~	~
26.5%	452.60	~	~	~	~	709.70	30.80	~	~	~	~	~
13.1%	452.85	~	~	~	~	709.70	30.72	~	~	~	~	~
13.1%	453.10	~	~	~	~	708.95	24.56	~	~	~	~	~
20.9%	453.35	~	~	~	~	708.95	24.64	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

12/12/9320-066.XLS

00187

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-07
Patch ID: BF-007
Ind. Data Sheet No.: 20-067

Indication: 20-067 **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
34.6%	456.10	~	~	~	~	710.45	37.04	~	~	~	~	~
22.2%	456.35	~	~	~	~	710.20	35.05	~	~	~	~	~
22.2%	456.60	~	~	~	~	709.95	32.88	~	~	~	~	~
20.4%	456.85	~	~	~	~	709.95	32.64	~	~	~	~	~
15.6%	457.10	~	~	~	~	709.70	30.32	~	~	~	~	~
22.2%	457.35	~	~	~	~	709.95	32.80	~	~	~	~	~
34.6%	457.60	~	~	~	~	709.95	32.80	~	~	~	~	~
45.1%	457.85	~	~	~	~	710.45	36.80	~	~	~	~	~
41.3%	458.10	~	~	~	~	710.20	34.72	~	~	~	~	~
22.2%	458.35	~	~	~	~	710.20	34.40	~	~	~	~	~
37.8%	458.60	~	~	~	~	710.45	36.96	~	~	~	~	~
22.2%	458.85	~	~	~	~	709.70	31.20	~	~	~	~	~
26.5%	459.10	~	~	~	~	709.95	32.96	~	~	~	~	~
58.8%	459.35	~	~	~	~	709.95	32.88	~	~	~	~	~
76.7%	459.60	~	~	~	~	710.20	34.64	~	~	~	~	~
31.7%	459.85	~	~	~	~	710.20	34.56	~	~	~	~	~
10.0%	460.10	~	~	~	~	710.70	30.00	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 13 (see 20-071).

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

12/20/9320-067.XLS

00188

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-07
Patch ID: BF-007
Ind. Data Sheet No.: 20-068

Indication: 20-068 **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
10.0%	460.60	~	~	~	~	708.70	28.40	~	~	~	~	~
29.0%	460.85	~	~	~	~	708.95	31.04	~	~	~	~	~
24.3%	461.10	~	~	~	~	708.20	24.20	~	~	~	~	~
22.2%	461.35	~	~	~	~	709.70	36.08	~	~	~	~	~
26.5%	461.60	~	~	~	~	709.95	38.32	~	~	~	~	~
29.0%	461.85	~	~	~	~	709.95	38.24	~	~	~	~	~
18.6%	462.10	~	~	~	~	709.20	32.40	~	~	~	~	~
17.1%	462.35	~	~	~	~	709.45	34.48	~	~	~	~	~
24.3%	462.60	~	~	~	~	709.20	32.48	~	~	~	~	~
18.6%	462.85	~	~	~	~	709.20	32.40	~	~	~	~	~
24.3%	463.10	~	~	~	~	709.20	32.32	~	~	~	~	~
15.6%	463.35	~	~	~	~	709.45	34.48	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Deesa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-07
Patch ID: BF-007
Ind. Data Sheet No.: 20-069

Indication: 20-069 **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
15.6%	462.35	~	~	~	~	709.45	28.40	~	~	~	~	~
22.2%	462.60	~	~	~	~	709.45	28.08	~	~	~	~	~
20.4%	462.85	~	~	~	~	709.20	26.16	~	~	~	~	~
22.2%	463.10	~	~	~	~	709.20	30.64	~	~	~	~	~
49.3%	463.35	~	~	~	~	709.95	32.56	~	~	~	~	~
45.1%	463.60	~	~	~	~	709.95	32.72	~	~	~	~	~
29.0%	463.85	~	~	~	~	710.20	34.56	~	~	~	~	~
18.6%	464.10	~	~	~	~	709.45	28.08	~	~	~	~	~
22.2%	464.35	~	~	~	~	709.20	26.40	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

0471 0000 1303

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-07
Patch ID: BF-007
Ind. Data Sheet No.: 20-070

Indication: 20-070 **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
10.0%	445.90	~	~	~	~	712.75	8.53	~	~	~	~	~
13.1%	446.15	~	~	~	~	712.75	8.53	~	~	~	~	~
24.3%	446.40	~	~	712.25	8.15	712.75	8.49	713.25	8.82	~	~	~
17.1%	446.65	~	~	712.25	8.15	712.75	8.49	713.50	9.02	~	~	~
15.6%	446.90	~	~	712.50	8.31	713.00	8.66	713.50	9.02	~	~	~
11.0%	447.15	~	~	~	~	713.00	8.66	~	~	~	~	~
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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 = 1.25 S = 0.48

Analyst: Jessica Kimball
Level: III Date: 12-20-93

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

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-007

Exam Data Sheet No.: E-20-07
Ind. Data Sheet No.: 20-070
Indication: 20-070

Flaw Thruwall Dimension =	0.23
Flaw Length "l" =	1.25
Separation with clad "S" =	N/A
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	2.16	2.44 Y
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
			2.16	2.44

a =	0.113
a/l value =	0.090
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.44%
a/t =	1.77%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-07
Patch ID: BF-007
Ind. Data Sheet No.: 20-071

Indication: 20-071 **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
70.2%	459.29	~	~	~	~	708.45	2.54	708.95	3.12	709.95	4.01	~
76.7%	459.54	708.20	2.31	708.45	2.57	708.70	2.87	708.95	3.12	710.70	4.54	~
49.3%	459.79	78.20	2.36	~	~	708.45	2.59	~	~	710.00	4.11	~
18.6%	460.04	~	~	~	~	709.20	3.28	~	~	~	~	~
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Comments: No apparent tip signals.
Thruwall size was determined by the ASME 50% method.
This indication is the same as recorded with Ch. 5 (see 20-067).

TW = 0.28 L = 0.75 S = 1.30 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-007

Exam Data Sheet No.: E-20-07
Ind. Data Sheet No.: 20-071
Indication: 20-071

Flaw Thruwall Dimension =	0.28
Flaw Length "l" =	0.75
Separation with clad "S" =	1.30
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	2.70	3.17 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
			2.70	3.17

a =	0.138
a/l value =	0.183
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.17%
a/t =	2.16%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-072

Indication: 20-072, 20-073 and 20-074 **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
70.2%	706.30	~	~	491.90	4.58	492.15	4.58	492.40	4.56	~	~	20-072
45.1%	706.55	~	~	~	~	491.90	4.58	~	~	~	~	20-072
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109.3%	706.30	~	~	469.15	1.68	496.40	1.67	469.65	1.67	~	~	20-073
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83.8%	706.30	~	~	511.40	5.12	513.65	5.15	514.40	5.19	~	~	20-074
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Comments: These indications evaluated as laminar reflectors and are acceptable in accordance with IWB-3510-2, ASME Section XI, 1986 Edition, No Addenda.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

00195

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-075

Indication: 20-075 **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
17.1%	470.90	~	~	~	~	703.75	23.52	~	~	~	~	~
29.0%	471.15	~	~	~	~	703.75	23.76	~	~	~	~	~
17.1%	471.40	~	~	~	~	704.00	22.16	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-076

Indication: 20-076 **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
11.0%	473.40	~	~	~	~	703.75	24.32	~	~	~	~	~
49.3%	473.65	~	~	~	~	703.75	24.08	~	~	~	~	~
64.3%	473.90	~	~	~	~	703.75	24.32	~	~	~	~	~
41.3%	474.15	~	~	~	~	703.75	24.32	~	~	~	~	~
83.8%	474.40	~	~	~	~	703.75	24.32	~	~	~	~	~
58.8%	474.65	~	~	~	~	704.00	22.32	~	~	~	~	~
41.3%	474.90	~	~	~	~	704.00	22.64	~	~	~	~	~
20.4%	475.15	~	~	~	~	703.75	24.64	~	~	~	~	~
45.1%	475.40	~	~	~	~	704.00	23.04	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 5 (see 20-083) and Ch. 9 (see 20-090).

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

00197
12/20/9320-076.XLS

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-077

Indication: 20-077 **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
24.3%	478.90	~	~	~	~	704.25	25.12	~	~	~	~	~
29.0%	479.15	~	~	~	~	705.25	18.48	~	~	~	~	~
81.8%	479.40	~	~	~	~	704.25	25.12	~	~	~	~	~
17.1%	479.65	~	~	~	~	705.25	18.64	~	~	~	~	~
13.1%	479.90	~	~	~	~	705.00	20.24	~	~	~	~	~
12.0%	480.15	~	~	~	~	705.00	20.40	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 5 (see 20-084) and Ch. 13 (see 20-095).

Analyst: C. Oellsa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-078

Indication: 20-078 **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
11.0%	494.65	~	~	~	~	704.25	26.08	~	~	~	~	~
22.2%	494.90	~	~	~	~	704.25	25.76	~	~	~	~	~
22.2%	495.15	~	~	~	~	704.00	27.76	~	~	~	~	~
13.1%	495.40	~	~	~	~	704.00	28.08	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 5 (see 20-086).

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-079

Indication: 20-079 **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
15.6%	511.15	~	~	~	~	704.25	25.44	~	~	~	~	~
22.2%	511.40	~	~	~	~	704.25	25.20	~	~	~	~	~
24.3%	511.65	~	~	~	~	704.00	27.04	~	~	~	~	~
26.5%	511.90	~	~	~	~	704.00	27.28	~	~	~	~	~
10.0%	512.15	~	~	~	~	704.00	27.04	~	~	~	~	~
20.4%	512.40	~	~	~	~	704.25	26.00	~	~	~	~	~
22.2%	512.65	~	~	~	~	704.25	26.16	~	~	~	~	~
31.7%	512.90	~	~	~	~	704.00	28.24	~	~	~	~	~
20.4%	513.15	~	~	~	~	704.00	28.48	~	~	~	~	~
17.1%	513.40	~	~	~	~	704.00	28.24	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-080

Indication: 20-080 **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
14.3%	516.90	~	~	~	~	703.75	24.40	~	~	~	~	~
45.1%	517.15	~	~	~	~	703.75	24.72	~	~	~	~	~
45.1%	517.40	~	~	~	~	703.00	30.48	~	~	~	~	~
24.3%	517.65	~	~	~	~	703.50	26.48	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Dave Kimball
Level: III Date: 12-20-93

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

B1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-081

Indication: 20-081 **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
17.1%	464.85	~	~	~	~	709.95	32.00	~	~	~	~	~
41.3%	465.10	~	~	~	~	709.95	31.76	~	~	~	~	~
70.2%	465.35	~	~	~	~	709.95	31.76	~	~	~	~	~
45.1%	465.60	~	~	~	~	709.95	31.76	~	~	~	~	~
34.6%	465.85	~	~	~	~	709.70	29.68	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: [signature] Level: III Date: 12-20-93

Reviewed By: R.O. Forman Level: II Date: 12-20-95

EXAM-DS3 V.2 10/22/93

00202

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-082

Indication: 20-082 **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
20.4%	467.85	~	~	~	~	709.95	31.76	~	~	~	~	~
41.3%	468.10	~	~	~	~	709.95	32.56	~	~	~	~	~
31.7%	468.35	~	~	~	~	709.95	32.64	~	~	~	~	~
20.4%	468.60	~	~	~	~	709.70	30.72	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Diana Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-083

Indication: 20-083 **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
18.6%	473.60	~	~	~	~	709.45	33.84	~	~	~	~	~
22.2%	473.85	~	~	~	~	709.45	33.68	~	~	~	~	~
17.1%	474.10	~	~	~	~	709.20	31.60	~	~	~	~	~
24.3%	474.35	~	~	~	~	709.45	33.92	~	~	~	~	~
41.3%	474.60	~	~	~	~	709.95	37.68	~	~	~	~	~
53.8%	474.85	~	~	~	~	709.95	37.68	~	~	~	~	~
34.6%	475.10	~	~	~	~	709.70	35.68	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 3 (see 20-076) and Ch. 9 (see 20-090).

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-084

Indication: 20-084 **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
22.2%	478.85	~	~	~	~	709.95	31.68	~	~	~	~	~
130.3%	479.10	~	~	~	~	709.95	32.00	~	~	~	~	~
170.0%	479.35	~	~	~	~	709.70	29.84	~	~	~	~	~
91.5%	479.60	~	~	~	~	709.70	29.92	~	~	~	~	~
41.3%	479.85	~	~	~	~	709.70	29.92	~	~	~	~	~
16.6%	480.10	~	~	~	~	709.70	30.00	~	~	~	~	~
24.3%	480.35	~	~	~	~	708.95	24.56	~	~	~	~	~
31.7%	480.60	~	~	~	~	709.70	30.00	~	~	~	~	~
26.5%	480.85	~	~	~	~	709.70	29.92	~	~	~	~	~
18.6%	481.10	~	~	~	~	709.45	28.80	~	~	~	~	~
37.8%	481.35	~	~	~	~	709.95	32.40	~	~	~	~	~
49.3%	481.60	~	~	~	~	709.95	32.08	~	~	~	~	~
31.7%	481.85	~	~	~	~	709.70	30.08	~	~	~	~	~
12.0%	482.10	~	~	~	~	709.70	30.08	~	~	~	~	~
14.3%	482.35	~	~	~	~	709.70	30.24	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 3 (see 20-077) and Ch. 13 (20-095).

Analyst: Laura Kimball
Level: III Date: 12-20-93

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

R 1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-085

Indication: 20-085 **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
13.1%	485.10	~	~	~	~	709.95	32.24	~	~	~	~	~
14.3%	485.35	~	~	~	~	708.45	21.52	~	~	~	~	~
24.3%	485.60	~	~	~	~	708.45	21.36	~	~	~	~	~
24.3%	485.85	~	~	~	~	708.20	19.12	~	~	~	~	~
13.1%	486.10	~	~	~	~	708.20	19.12	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-086

Indication: 20-086 **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
22.2%	494.60	~	~	~	~	709.95	32.32	~	~	~	~	~
24.3%	494.85	~	~	~	~	709.70	30.16	~	~	~	~	~
26.5%	495.10	~	~	~	~	709.70	30.32	~	~	~	~	~
12.0%	495.35	~	~	~	~	709.70	30.08	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 3 (20-078).

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-087

Indication: 20-087 **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
24.3%	506.85	~	~	~	~	709.95	32.00	~	~	~	~	~
24.3%	507.10	~	~	~	~	709.45	28.48	~	~	~	~	~
26.5%	507.35	~	~	~	~	709.70	30.32	~	~	~	~	~
20.4%	507.60	~	~	~	~	709.70	30.48	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

EXAM-DS3 V.2 10/22/93

00208

B1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-088

Indication: 20-088 **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
17.1%	512.35	~	~	~	~	708.20	20.08	~	~	~	~	~
18.6%	512.60	~	~	~	~	707.95	17.68	~	~	~	~	~
41.3%	512.85	~	~	~	~	708.20	20.08	~	~	~	~	~
17.1%	513.10	~	~	~	~	707.95	18.24	~	~	~	~	~
20.9%	513.35	~	~	~	~	708.20	20.56	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Laura Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-089

Indication: 20-089 **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
37.8%	491.71	~	~	~	~	701.55	6.28	~	~	~	~	~
58.8%	491.96	~	~	700.55	6.99	701.55	6.24	701.80	6.08	~	~	~
83.8%	492.21	~	~	700.55	7.00	701.55	6.24	702.05	5.88	~	~	~
91.5%	492.46	~	~	701.05	6.61	701.80	6.08	702.05	5.90	~	~	~
58.8%	492.71	~	~	~	~	701.30	6.44	701.80	6.06	~	~	~
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Comments: This indication is the same as seen with Ch. 9 (see 20-093), Ch. 11 (see 20-092) and Ch. 13 (see 20-094).
Thruwall size was determined by the SPOT technique.

TW = 0.28 L = 1.00 S = 2.15

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-008

Exam Data Sheet No.: E-20-08
Ind. Data Sheet No.: 20-89
Indication: 20-89

Flaw Thruwall Dimension = 0.28
Flaw Length "l" = 1.00
Separation with clad "S" = N/A
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	2.44	2.82 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
			2.44	2.82

a = 0.140
a/l value = 0.140
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.82%
a/t = 2.19%

Comments:

K1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-090

Indication: 20-090 **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
26.5%	474.65	~	~	~	~	707.75	2.25	~	~	~	~	~
24.3%	474.90	~	~	~	~	708.00	2.41	~	~	~	~	~
41.3%	475.15	707.50	2.06	~	~	707.75	2.30	~	~	708.25	2.65	~
34.6%	475.40	707.50	2.09	~	~	708.00	2.43	~	~	708.25	2.62	~
24.3%	475.65	~	~	~	~	708.00	2.43	~	~	~	~	~
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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.
This indication is the same as recorded with Ch. 3 (see 20-076) and Ch. 5 (see 20-083).

TW = 0.00 L = 1.00 S = 1.63 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-091

Indication: 20-091 **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
24.3%	485.40	~	~	~	~	708.25	2.19	~	~	~	~	~
26.5%	485.65	~	~	~	~	708.00	2.01	~	~	708.25	2.14	~
18.6%	485.90	~	~	~	~	708.00	1.92	~	~	~	~	~
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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 = 1.42 w/clad

Analyst: Teresa Kimball Level: III Date: 12-20-93

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

0491 0000 1326

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-092

Indication: 20-092 **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
49.3%	491.60	~	~	~	~	699.55	7.81	~	~	~	~	~
70.2%	491.85	~	~	696.55	10.46	699.55	7.83	699.80	7.59	~	~	~
76.7%	492.10	~	~	696.30	10.68	699.05	8.24	699.80	7.56	~	~	~
100.0%	492.35	~	~	696.30	10.68	698.80	8.46	700.05	7.64	~	~	~
91.5%	492.60	~	~	696.30	10.68	699.05	8.24	700.05	7.43	~	~	~
91.5%	492.85	~	~	696.30	10.68	698.80	8.48	699.80	7.59	~	~	~
58.8%	493.10	~	~	696.30	10.70	698.80	8.46	699.05	8.24	~	~	~
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Comments: This indication is the same as seen with Ch. 7 (see 20-089), Ch. 9 (see 20-093) and Ch. 13 (see 20-094).
Thruwall size was determined by the PATT technique.

TW = 0.31 L = 1.50 S = 2.17

Analyst: Deena Kimball
Level: III Date: 12-20-93

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

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-008

Exam Data Sheet No.: E-20-08
Ind. Data Sheet No.: 20-092
Indication: 20-092

Flaw Thruwall Dimension = 0.31
Flaw Length "l" = 1.50
Separation with clad "S" = N/A
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	2.22	2.53 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
			2.22	2.53

a = 0.155
a/l value = 0.103
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.53%
a/t = 2.43%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-093

Indication: 20-093 **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
31.7%	491.15	~	~	~	~	710.25	6.65	710.75	6.98	~	~	~
26.5%	491.40	~	~	709.75	6.31	710.00	6.47	710.75	6.98	~	~	~
26.5%	491.65	~	~	710.00	6.48	710.75	6.93	~	~	~	~	~
37.8%	491.90	~	~	709.25	5.92	710.25	6.57	711.25	7.34	~	~	~
41.3%	492.15	~	~	709.00	5.76	710.00	6.42	711.25	7.33	~	~	~
26.5%	492.40	~	~	709.00	5.73	710.00	6.40	710.50	6.73	~	~	~
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Comments: This indication is the same as seen with Ch. 7 (see 20-089), Ch. 11 (see 20-092) and Ch. 13 (see 20-094).
Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the PATT technique.

TW = 0.29 L = 1.25 S = 1.69

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-008

Exam Data Sheet No.: E-20-08
Ind. Data Sheet No.: 20-093
Indication: 20-093

Flaw Thruwall Dimension = 0.29
Flaw Length "l" = 1.25
Separation with clad "S" = N/A
Surface Separation "S" = 1.69

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 = 0.145
a/l value = 0.116
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.63%
a/t = 2.27%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-095

Indication: 20-095 **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
49.3%	479.04	708.45	2.35	~	~	708.95	2.86	~	~	710.45	4.27	~
53.8%	479.29	707.95	1.94	708.95	2.84	709.20	3.06	709.95	3.80	710.45	4.25	~
53.8%	479.54	708.70	2.62	708.95	2.82	709.20	3.06	709.95	3.76	710.45	4.21	~
45.1%	479.79	708.95	2.82	~	~	709.20	3.04	~	~	709.95	3.76	~
20.4%	480.04	~	~	~	~	708.95	3.04	~	~	~	~	~
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Comments: No apparent tip signals.
Thruwall size was determined by the ASME 50% method.
This indication is the same as recorded with Ch. 3 (see 20-077) and Ch. 5 (see 20-084).

TW = 0.49 L = 0.75 S = 1.29 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-008

Exam Data Sheet No.: E-20-08
Ind. Data Sheet No.: 20-095
Indication: 20-095

Flaw Thruwall Dimension =	0.49
Flaw Length "l" =	0.75
Separation with clad "S" =	1.29
Surface Separation "S" =	1.10

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	4.12	4.77 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
			4.12	4.77

a =	0.245
a/l value =	0.327
Y =	1.000

Flaw is Subsurface

Allowed a/t =	4.77%
a/t =	3.84%

Comments:

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-08
Patch ID: BF-008
Ind. Data Sheet No.: 20-094

Indication: 20-094 **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
20.4%	491.54	~	~	~	~	713.45	9.34	~	~	~	~	~
34.6%	491.79	~	~	~	~	712.95	8.78	713.95	9.69	~	~	~
34.6%	492.04	~	~	~	~	711.70	7.77	714.70	10.35	~	~	~
34.6%	492.29	~	~	~	~	711.70	7.75	714.45	10.15	~	~	~
26.5%	492.54	~	~	711.70	7.73	712.95	8.84	~	~	~	~	~
22.2%	492.79	~	~	~	~	713.20	8.95	~	~	~	~	~
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Comments: This indication is the same as seen with Ch. 7 (see 20-089), Ch. 9 (see 20-093) and Ch. 11 (see 20-092).
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 = 1.25 S = 2.05

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-008

Exam Data Sheet No.: E-20-08
Ind. Data Sheet No.: 20-094
Indication: 20-094

Flaw Thruwall Dimension =	0.32
Flaw Length "l" =	1.25
Separation with clad "S" =	N/A
Surface Separation "S" =	2.05

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	2.37	2.72 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
			2.37	2.72

a =	0.160
a/l value =	0.128
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.72%
a/t =	2.51%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-09
Patch ID: BF-009
Ind. Data Sheet No.: 20-096

Indication: 20-096 **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
12.0%	534.35	~	~	~	~	709.70	31.20	~	~	~	~	~
34.6%	534.60	~	~	~	~	709.95	32.64	~	~	~	~	~
26.5%	534.85	~	~	~	~	709.70	30.56	~	~	~	~	~
15.6%	535.10	~	~	~	~	710.70	38.48	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-09
Patch ID: BF-009
Ind. Data Sheet No.: 20-097

Indication: 20-097 **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
49.3%	537.60	~	~	~	~	696.55	12.73	~	~	~	~	~
49.3%	537.85	~	~	~	~	696.55	12.70	~	~	~	~	~
58.8%	538.10	~	~	696.55	12.73	696.80	12.49	697.05	12.31	~	~	~
58.8%	538.35	~	~	696.30	12.92	696.80	12.51	697.05	12.31	~	~	~
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Comments: OD surface indication.
3.84 dB below Notch sensitivity.
Thruwall size was determined by the ASME 50% method.

TW = 0.31 L = 0.75 S = 0.19

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-009

Exam Data Sheet No.: E-20-09
Ind. Data Sheet No.: 20-097
Indication: 20-097

Flaw Thruwall Dimension =	0.31
Flaw Length "l" =	0.75
Separation with clad "S" =	N/A
Surface Separation "S" =	0.19

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	2.83	3.33 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
			2.83	3.33

a =	0.153
a/l value =	0.203
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.33%
a/t =	2.39%

Comments:

B1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-10
Patch ID: BF-010
Ind. Data Sheet No.: 20-098

Indication: 20-098 **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%	581.40	~	~	~	~	704.25	25.20	~	~	~	~	~
25.2%	581.65	~	~	~	~	704.00	27.50	~	~	~	~	~
23.7%	581.90	~	~	~	~	704.00	26.88	~	~	~	~	~
18.5%	582.15	~	~	~	~	704.00	26.40	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 5 (see 20-099).

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-10
Patch ID: BF-010
Ind. Data Sheet No.: 20-099

Indication: 20-099 **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
16.3%	581.35	~	~	~	~	709.45	25.20	28.24	~	~	~	~
25.2%	581.60	~	~	~	~	709.70	27.50	30.24	~	~	~	~
23.7%	581.85	~	~	~	~	709.70	26.88	30.32	~	~	~	~
18.5%	582.10	~	~	~	~	709.70	26.40	30.24	~	~	~	~
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Comments: No apparent tip signals.
This indication is the same as recorded with Ch. 3 (see 20-098).
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-10
Patch ID: BF-010
Ind. Data Sheet No.: 20-100

Indication: 20-100 **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
25.2%	557.15	~	~	709.50	5.29	709.75	5.47	~	~	~	~	~
39.1%	557.40	~	~	709.00	4.98	709.75	5.51	710.50	6.04	~	~	~
36.7%	557.65	~	~	709.00	4.96	709.50	5.31	710.50	6.06	~	~	~
14.4%	557.90	~	~	~	~	709.50	5.31	~	~	~	~	~
10.5%	558.15	~	~	~	~	709.75	5.57	~	~	~	~	~
34.5%	558.40	~	~	709.25	5.18	709.75	5.55	710.75	5.91	~	~	~
39.1%	558.65	~	~	709.00	5.00	709.50	5.36	710.25	5.89	~	~	~
41.6%	558.90	~	~	709.00	5.00	709.50	5.36	710.00	5.71	~	~	~
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Comments: Thruwall size was determined by the SPOT technique.
Recorded at less than ASME required levels due to apparent tip diffracted signals.

TW = 0.20 L = 1.75 S = 2.71

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

B1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-010

Exam Data Sheet No.: E-20-10
Ind. Data Sheet No.: 20-100
Indication: 20-100

Flaw Thruwall Dimension =	0.20
Flaw Length "l" =	1.75
Separation with clad "S" =	N/A
Surface Separation "S" =	2.71

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	~	~
0.05	2.00	2.2	2.03	2.24 Y
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
			2.03	2.24

a =	0.100
a/l value =	0.057
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.24%
a/t =	1.57%

Comments:

B1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-10
Patch ID: BF-010
Ind. Data Sheet No.: 20-101

Indication: 20-101 **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
28.6%	600.90	~	~	711.25	7.40	712.25	7.06	712.50	7.25	~	~	~
44.3%	601.15	~	~	711.25	6.29	712.50	7.24	712.75	7.43	~	~	~
47.2%	601.40	~	~	711.50	6.47	712.50	7.25	712.75	7.40	~	~	~
23.7%	601.65	~	~	~		712.50	7.25	~	~	~	~	~
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Comments: Thruwall size was determined by the SPOT technique.
Recorded at less than ASME required levels due to apparent tip diffracted signals.
This indication is the same as recorded with Ch. 13 (see 20-102).

TW = 0.26 L = 0.75 S = 1.35

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-010

Exam Data Sheet No.: E-20-10
Ind. Data Sheet No.: 20-101
Indication: 20-101

Flaw Thruwall Dimension =	0.26
Flaw Length "l" =	0.75
Separation with clad "S" =	N/A
Surface Separation "S" =	1.35

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	~	~
0.15	2.50	2.9	2.64	3.09 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
			2.64	3.09

a =	0.130
a/l value =	0.173
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.09%
a/t =	2.04%

Comments:

EXAM-DS4 V.1 10/3/93

EXAM-DX4.XLS12/19/93

00230

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-10
Patch ID: BF-010
Ind. Data Sheet No.: 20-102

Indication: 20-102 **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
47.2%	601.04	~	~	~	~	715.45	9.86	~	~	~	~	~
47.2%	601.29	~	~	~	~	714.20	8.73	~	~	~	~	~
50.2%	601.54	~	~	~	~	714.20	8.76	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 9 (see 20-101).

Analyst: Deesa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-11
Patch ID: BF-011
Ind. Data Sheet No.: 20-103

Indication: 20-103 **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
50.2%	706.55	~	~	~	~	6.97.9	5.04	~	~	~	~	~
145.5%	706.80	~	~	697.90	5.14	698.40	5.14	698.40	*	~	~	* Scan End
73.1%	707.05	~	~	697.90	5.14	698.15	5.17	698.40	5.17	~	~	~
94.0%	707.30	~	~	697.90	5.25	698.15	5.23	698.40	5.23	~	~	~
53.5%	707.55	~	~	~	~	697.90	5.34	698.15	5.32	~	~	~
100.0%	707.80	~	~	697.90	5.38	698.15	5.38	698.40	5.38	~	~	~
128.4%	708.05	~	~	697.65	5.47	698.15	5.45	698.40	5.43	~	~	~
44.3%	708.30	~	~	~	~	698.15	5.53	~	~	~	~	~
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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: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-11
Patch ID: BF-011
Ind. Data Sheet No.: 20-104

Indication: 20-104 **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
16.3%	648.35	~	~	~	~	710.45	40.80	~	~	~	~	~
47.2%	648.60	~	~	~	~	710.45	40.64	~	~	~	~	~
53.5%	648.85	~	~	~	~	710.45	40.64	~	~	~	~	~
30.4%	649.10	~	~	~	~	710.45	40.56	~	~	~	~	~
17.3%	649.35	~	~	~	~	710.70	42.72	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 9 (see 20-106).

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-11
Patch ID: BF-011
Ind. Data Sheet No.: 20-105

Indication: 20-105 **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
18.5%	675.10	~	~	~	~	708.95	36.40	~	~	~	~	~
23.7%	675.35	~	~	~	~	707.20	25.36	~	~	~	~	~
19.6%	675.60	~	~	~	~	707.70	28.80	~	~	~	~	~
14.4%	675.85	~	~	~	~	707.20	25.12	~	~	~	~	~
20.9%	676.10	~	~	~	~	708.45	33.20	~	~	~	~	~
28.6%	676.35	~	~	~	~	708.70	34.64	~	~	~	~	~
30.4%	676.60	~	~	~	~	708.70	34.64	~	~	~	~	~
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Comments: No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.
This indication is the same as recorded with Ch. 9 (see 20-107) and Ch. 13 (see 20-108).

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-11
Patch ID: BF-011
Ind. Data Sheet No.: 20-106

Indication: 20-106 **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
34.5%	648.40	~	~	709.25	3.73	709.75	4.11	710.00	4.30	~	~	~
53.5%	648.65	~	~	708.00	2.91	709.75	4.13	710.00	4.30	~	~	~
50.2%	648.90	~	~	708.00	2.91	709.50	3.93	710.00	4.30	~	~	~
30.4%	649.15	~	~	708.50	3.27	709.50	3.89	~	~	~	~	~
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Comments: This indication also seen with Ch. 13 at less than recordable levels with no apparent tip signals.
Thruwall size was determined by the SPOT technique.
This indication is the same as recorded with Ch. 5 (see 20-104).

TW = 0.23 L = 0.75 S = 2.81 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-011

Exam Data Sheet No.: E-20-11
Ind. Data Sheet No.: 20-106
Indication: 20-106

Flaw Thruwall Dimension = 0.23
Flaw Length "l" = 0.75
Separation with clad "S" = 2.81
Surface Separation "S" = 2.62

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	2.50	2.91 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
			2.50	2.91

a = 0.113
a/l value = 0.151
Y = 1.000

Flaw is Subsurface

Allowed a/t = 2.91%
a/t = 1.77%

Comments:

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-11
Patch ID: BF-011
Ind. Data Sheet No.: 20-107

Indication: 20-107 **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
14.4%	674.90	~	~	~	~	707.75	3.21	~	~	~	~	~
30.4%	675.15	~	~	707.50	3.08	707.75	3.23	708.00	3.38	~	~	~
34.5%	675.40	~	~	707.25	2.88	707.75	3.26	709.50	4.68	~	~	~
28.6%	675.65	~	~	707.50	3.08	707.75	3.23	709.25	4.45	~	~	~
25.2%	675.90	~	~	~	~	707.75	3.18	709.25	4.38	~	~	~
30.4%	676.15	~	~	707.00	2.76	707.75	3.18	709.25	4.36	~	~	~
32.4%	676.40	~	~	707.00	2.75	707.75	3.17	709.50	4.65	~	~	~
19.6%	676.65	~	~	707.25	2.82	707.50	3.03	709.00	4.17	~	~	~
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Comments: Recorded at less than ASME required levels due to apparent tip diffracted signals.
Thruwall size was determined by the PATT technique.
This indication is the same as recorded with Ch. 5 (see 20-105) and Ch. 13 (see 20-108).

TW = 0.25 L = 1.75 S = 2.25 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-011

Exam Data Sheet No.: E-20-11
Ind. Data Sheet No.: 20-107
Indication: 20-107

Flaw Thruwall Dimension =	0.25
Flaw Length "l" =	1.75
Separation with clad "S" =	2.25
Surface Separation "S" =	2.06
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	2.09	2.33 Y
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
			2.09	2.33

a =	0.125
a/l value =	0.071
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.33%
a/t =	1.96%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-11
Patch ID: BF-011
Ind. Data Sheet No.: 20-108

Indication: 20-108 **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
44.3%	675.29	~	~	~	~	708.95	4.43	~	~	~	~	~
60.6%	675.54	~	~	708.95	4.42	709.95	5.14	711.95	6.96	~	~	~
50.2%	675.79	~	~	~	~	708.45	3.93	~	~	~	~	~
57.0%	676.04	~	~	~	~	708.45	3.86	708.95	4.30	~	~	~
94.0%	676.29	~	~	~	~	708.45	3.86	709.95	5.06	~	~	~
73.1%	676.54	~	~	~	~	708.20	3.62	709.95	5.04	~	~	~
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Comments: No apparent tips
This indication is the same as recorded with Ch. 5 (20-105) and Ch. 9 (20-107).
Flaw dimensions assigned from Indication Data Sheet 20-107.
Thruwall size was determined by the PATT technique.

TW = .25 L = 1.75 S = 2.25 w/clad

Analyst: Dewa Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-011

Exam Data Sheet No.: E-20-11
Ind. Data Sheet No.: 20-108
Indication: 20-108

Flaw Thruwall Dimension =	0.25
Flaw Length "l" =	1.75
Separation with clad "S" =	2.25
Surface Separation "S" =	2.06

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	2.09	2.33 Y
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
			2.09	2.33

a =	0.125
a/l value =	0.071
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.33%
a/t =	1.96%

Comments: Flaw dimensions assigned from Indication Data Sheet 20-107.

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-12
Patch ID: BF-012
Ind. Data Sheet No.: 20-109

Indication: 20-109 **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%	750.60	~	~	~	~	709.95	33.44	~	~	~	~	~
32.4%	750.85	~	~	~	~	709.95	32.96	~	~	~	~	~
57.0%	751.10	~	~	~	~	710.20	34.72	~	~	~	~	~
64.5%	751.35	~	~	~	~	710.20	34.72	~	~	~	~	~
36.7%	751.60	~	~	~	~	710.20	34.72	~	~	~	~	~
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Comments: Thruwall size was determined by the PATT technique.
This indication is the same as recorded with Ch. 13 (see 20-111).

TW = 0.19 L = 1.25 S = 1.43 w/clad

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

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GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-012

Exam Data Sheet No.: E-20-12
Ind. Data Sheet No.: 20-109
Indication: 20-109

Flaw Thruwall Dimension =	0.19
Flaw Length "l" =	1.25
Separation with clad "S" =	1.43
Surface Separation "S" =	1.24

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	2.11	2.36 Y
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
			2.11	2.36

a =	0.096
a/l value =	0.077
Y =	1.000

Flaw is Subsurface

Allowed a/t =	2.36%
a/t =	1.50%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-12
Patch ID: BF-012
Ind. Data Sheet No.: 20-110

Indication: 20-110 **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
10.5%	734.15	~	~	~	~	712.25	6.80	~	~	~	~	~
25.2%	734.40	~	~	711.00	5.89	712.25	6.76	712.50	6.96	~	~	~
19.6%	734.65	~	~	711.00	5.80	711.50	6.16	712.50	6.96	~	~	~
11.2%	734.90	~	~	~	~	711.50	6.18	~	~	~	~	~
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Comments: Thruwall size was determined by the SPOT technique.

TW = 0.28 L = 0.75 S = 1.68

Analyst: Teresa Kimball
Level: III Date: 12-20-93

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

R1151

GE Nuclear Energy

GERIS 2000 Indication Evaluation Sheet

Project: TVA, Browns Ferry Unit 3
Weld ID: C-5-FLG
Patch: BF-012

Exam Data Sheet No.: E-20-12
Ind. Data Sheet No.: 20-110
Indication: 20-110

Flaw Thruwall Dimension =	0.28
Flaw Length "l" =	0.75
Separation with clad "S" =	N/A
Surface Separation "S" =	1.68

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	2.72	3.19 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
			2.72	3.19

a =	0.140
a/l value =	0.187
Y =	1.000

Flaw is Subsurface

Allowed a/t =	3.19%
a/t =	2.19%

Comments:

R1151

GE Nuclear Energy

GERIS 2000 Indication Data Sheet

Project: TVA, Browns Ferry, Unit 3
Weld ID: C-5-FLG
Cal. ID: C-001

Exam Data Sheet No.: E-20-12
Patch ID: BF-012
Ind. Data Sheet No.: 20-111

Indication: 20-111 **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%	751.29	~	~	~	~	709.70	3.62	~	~	~	~	~
~	~	~	~	~	~	~	~	~	~	~	~	~
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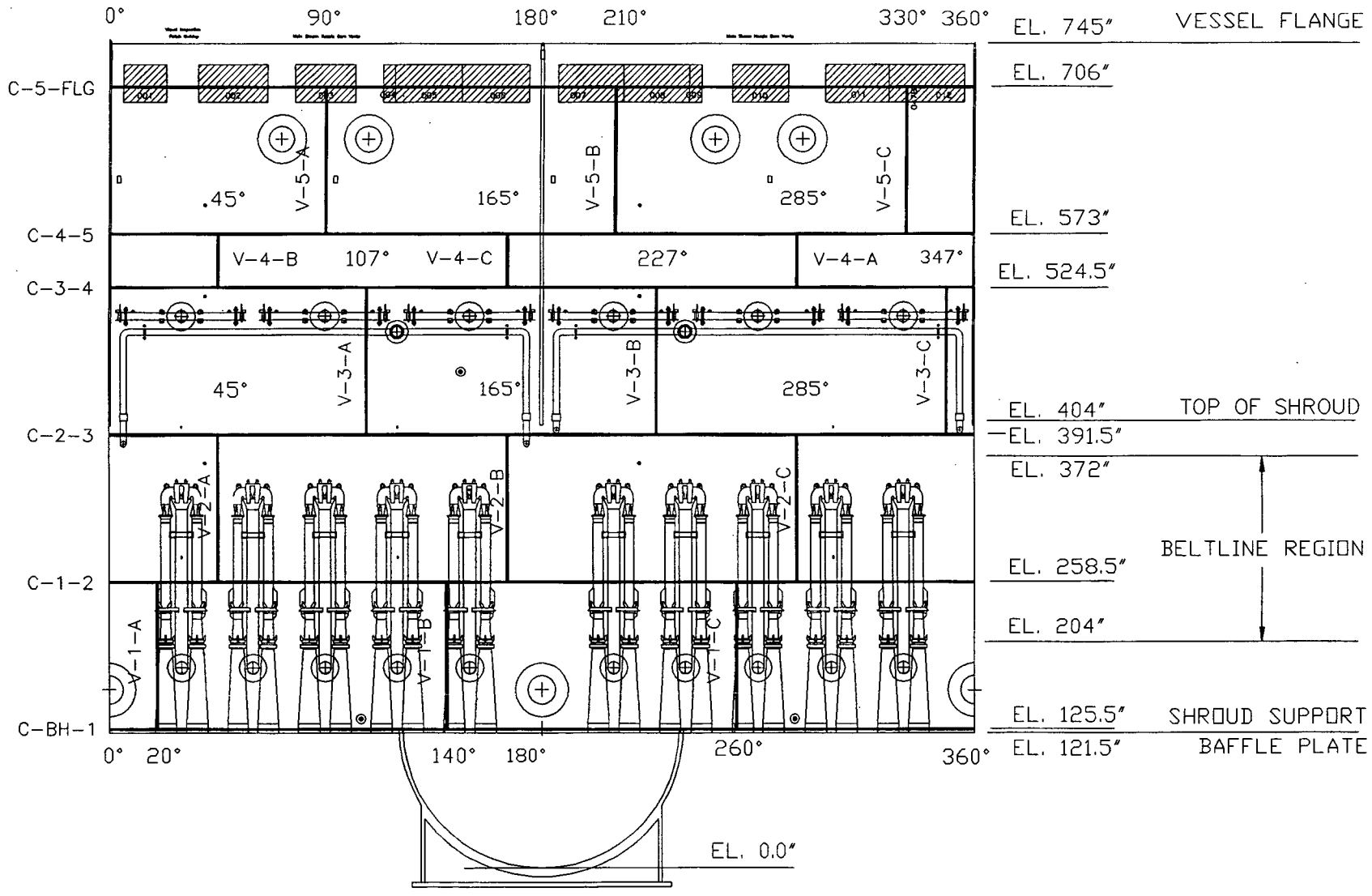
Comments: This indication is the same as seen with Ch. 5 (see 20-109).
No apparent tip signals.
Indication has no determinable thruwall and is acceptable to IWB-3510-1.

Analyst: Teresa Kimball
Level: III Date: 12-20-93

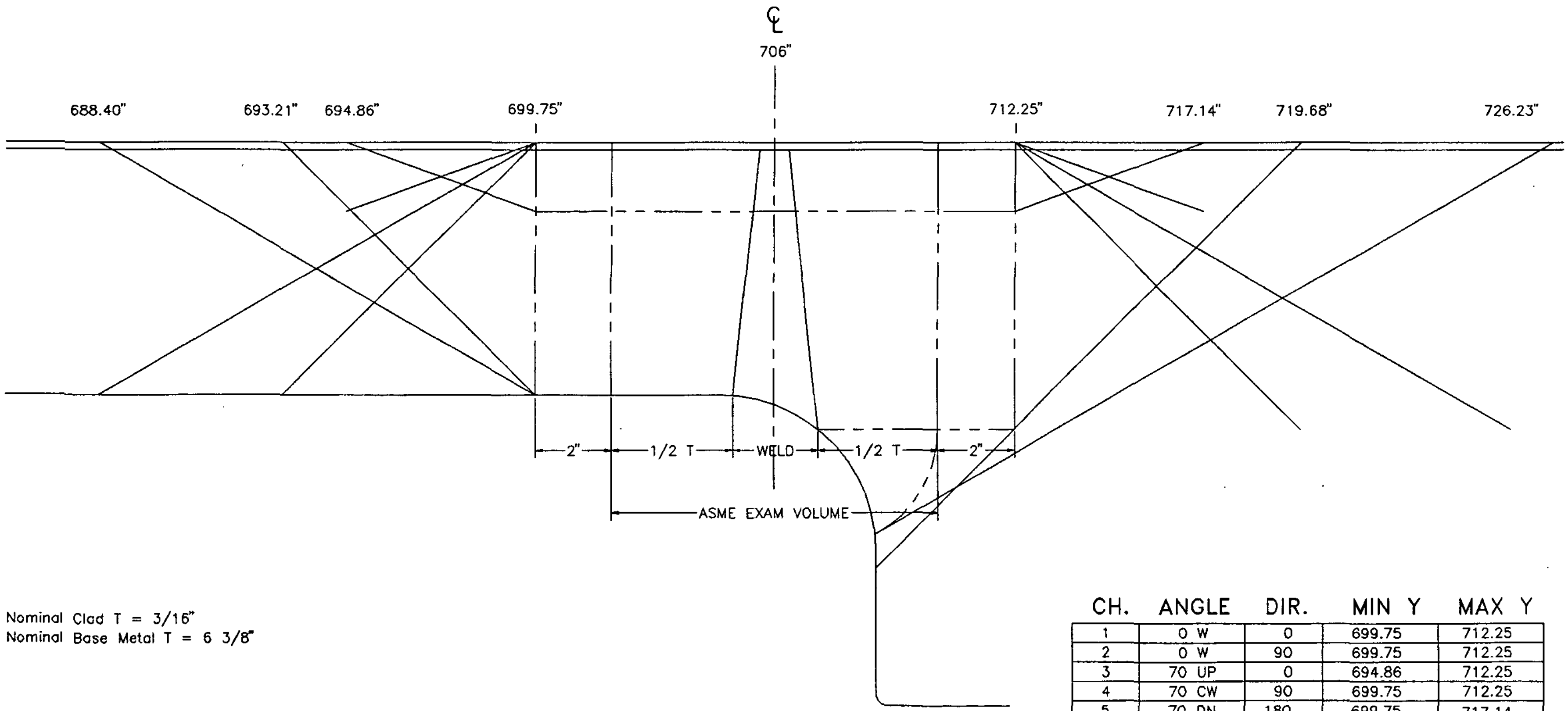
Reviewed By: R.O. Forman
Level: II Date: 12-20-93

BROWNS FERRY UNIT-3 WELD LOCATIONS



GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	VESSEL ROLLOUT & AS SCANNED PATCH LOCATIONS	BF-3-VMA	REV 0

R1151



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

CH.	ANGLE	DIR.	MIN Y	MAX Y
1	0 W	0	699.75	712.25
2	0 W	90	699.75	712.25
3	70 UP	0	694.86	712.25
4	70 CW	90	699.75	712.25
5	70 DN	180	699.75	717.14
6	70 CCW	270	699.75	712.25
7	45 UP	0	693.21	712.25
8	45 CW	90	699.75	712.25
9	45 DN	180	699.75	719.68
10	45 CCW	270	699.75	712.25
11	60 UP	0	688.40	712.25
12	60 CW	90	699.75	712.25
13	60 DN	180	699.75	726.23
14	60 CCW	270	699.75	712.25
15	0 BM	0	699.75	726.23
16	0 BM	90	688.40	712.25

GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	WELD C-5-FLG EXAM VOLUME	SCALE: NONE	DWG. BF3C-5-F	REV. 0

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K 1131

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GE Nuclear Energy

ULTRASONIC EXAMINATION DATA SHEET

(MANUAL RPV VESSEL WELDS)

SITE: Browns Ferry	PROCEDURE NO.: GE-UT-300	REPORT NO.: E-20
UNIT: 3	REVISION NO.: 6	DATA SHEET NO.: D-001
PROJECT NO.: 00387	FRR NO.: 004	CALIBRATION SHEET NO.: 0° C-104 45° N/A 60° N/A

SYSTEM: RPV EXAM SURFACE TEMP: 69 °F COUPLANT: ULTRAGEL II EXAM START: 1802

WELD ID: C-5-FLG THERMOMETER S/N: LD281CL BATCH NO.: 093011 EXAM END.: 1814

BEAM ANGLE: ☒ 0° ☐ 45° ☐ 60° ☐ OTHER N/A SURFACE CONDITION: ☒ SMOOTH ☐ GROUND ☐ OTHER N/A

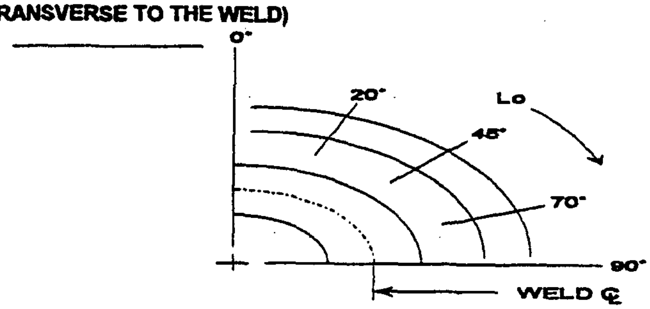
MATERIAL TYPE: ☒ CS ☐ SS ☐ OTHER N/A EXAM SURFACE: ☐ ID ☒ OD

Lo REFERENCE VESSEL 0° 0° SCAN SENSITIVITY 48.6 dB

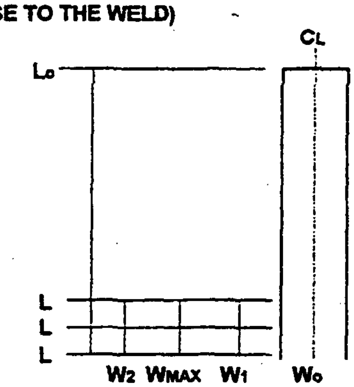
Wo REFERENCE WELD ℄ 45° SCAN SENSITIVITY N/A dB

60° SCAN SENSITIVITY N/A dB

NOZZLE WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



L/R	% DAC (MAX)	W1 20% DAC	WF1 50% DAC	WM MAX DAC	WF2 50% DAC	W2 20% DAC	MP1 20% DAC	MPF1 50% DAC	MP MAX DAC	MPF2 50% DAC	MP2 20% DAC	CONTINUOUS (C) OR SPOT (S) TRANSVERSE (T) OR PARALLEL (P)	CW/CCW TOP OR BOTTOM
		NO RECORDABLE INDICATIONS, WELD EXAM.											

REMARKS: EXAMINED 47" CCW FROM ℄ OF N3C TO 47" CW OF N3D ℄. NO Exam was performed on the TOPSIDE of the weld due to the configuration of the flange.

[signature]	II	10-18-93	[signature]	1/26/94	
EXAMINED BY	LEVEL	DATE	UTILITY REVIEW	DATE	
Teresa Kimball		12-21-93	Albert Tadd	7/11/94 4/11/94	PAGE: 1 OF: 1
GE REVIEWED BY		DATE	ANII REVIEW	DATE	

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* 00248

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GE Nuclear Energy

ULTRASONIC EXAMINATION DATA SHEET

(MANUAL RPV VESSEL WELDS)

SITE: Browns Ferry | PROCEDURE NO.: GE-UT-300 | REPORT NO.: E-20

UNIT: 3 | REVISION NO.: 6 | DATA SHEET NO.: D-002

PROJECT NO.: 00387 | FRR NO.: 004 | CALIBRATION SHEET NO.: 0° C-104 45° N/A 60° N/A

SYSTEM: RPV | EXAM SURFACE TEMP: 69 °F | COUPLANT: ULTRAGEL II | EXAM START: 1254

WELD ID: C-5-FLG | THERMOMETER S/N: L0281CL | BATCH NO.: 093011 | EXAM END.: 1800

BEAM ANGLE: [X] 0° [ ] 45° [ ] 60° [ ] OTHER N/A | SURFACE CONDITION: [X] SMOOTH [ ] GROUND [ ] OTHER N/A

MATERIAL TYPE: [X] CS [ ] SS [ ] OTHER N/A | EXAM SURFACE: [ ] ID [X] OD

Lo REFERENCE VESSEL 0°

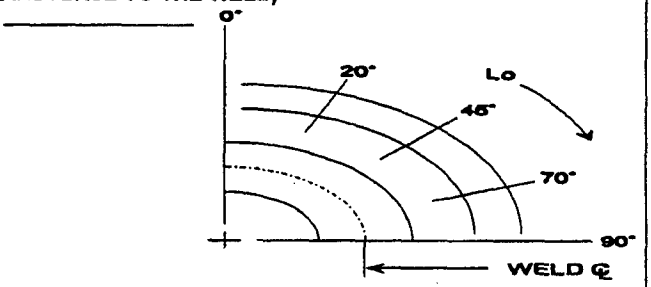
Wo REFERENCE Weld ℄

0° SCAN SENSITIVITY 48.6 dB

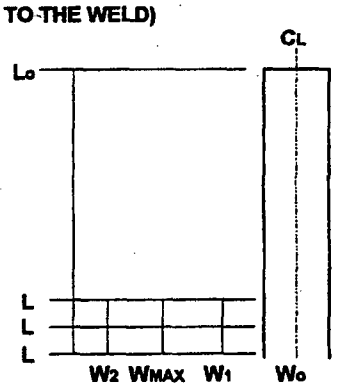
45° SCAN SENSITIVITY N/A dB

60° SCAN SENSITIVITY N/A dB

NOZZLE WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



L/R	% DAC (MAX)	W1 20% DAC	WF1 50% DAC	WM MAX DAC	WF2 50% DAC	W2 20% DAC	MP1 20% DAC	MPF1 50% DAC	MP MAX DAC	MPF2 50% DAC	MP2 20% DAC	CONTINUOUS (C) OR SPOT (S) TRANSVERSE (T) OR PARALLEL (P)	CW/CCW TOP OR BOTTOM
			NO RECORDABLE INDICATIONS, BASE METAL EXAM										

REMARKS: EXAMINED 47" CCW FROM ℄ OF N3C TO 47" CW OF N3D ℄. NO EXAM WAS PERFORMED ON THE TOPSIDE due to the configuration of the flange.

EXAMINED BY	LEVEL II	10-18-93 DATE	
GE REVIEWED BY		12-21-93 DATE	
	UTILITY REVIEW	1/26/94 DATE	
	ANII REVIEW	7/11/94 DATE	PAGE: 1 OF: 1

FORM UT-14 REV. 6

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GE Nuclear Energy

ULTRASONIC EXAMINATION DATA SHEET

(MANUAL RPV VESSEL WELDS)

SITE: BROWNS FERRY | PROCEDURE NO.: GE-UT-300 | REPORT NO.: E-20

UNIT: 3 | REVISION NO.: 6 | DATA SHEET NO.: D-007

PROJECT NO.: 00387 | FRR NO.: 004 | CALIBRATION SHEET NO.: 0° N/A

45° C-107 60° N/A

SYSTEM: RPV | EXAM SURFACE TEMP: 69 °F | COUPLANT: ULTRAGEL II | EXAM START: 1627

WELD ID: C-5-ELG | THERMOMETER S/N: L0281CL | BATCH NO.: 093011 | EXAM END.: 1700

BEAM ANGLE: ☐ 0° ☒ 45° ☐ 60° ☐ OTHER N/A | SURFACE CONDITION: ☒ SMOOTH ☐ GROUND ☐ OTHER N/A

MATERIAL TYPE: ☒ CS ☐ SS ☐ OTHER N/A | EXAM SURFACE: ☐ ID ☒ OD

Lo REFERENCE VESSEL 0°

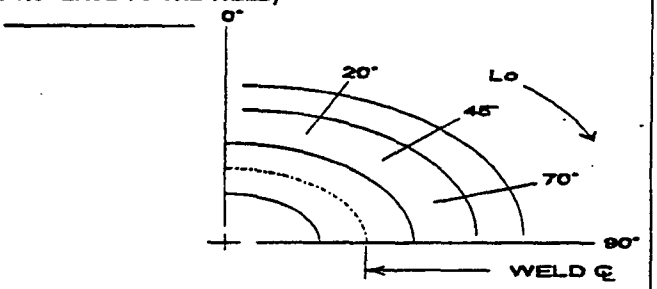
Wo REFERENCE WELD ℄

0° SCAN SENSITIVITY N/A dB

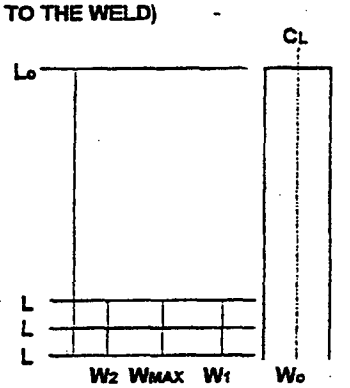
45° SCAN SENSITIVITY 55.8 dB

60° SCAN SENSITIVITY N/A dB

NOZZLE WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



L/R	% DAC (MAX)	W1 20% DAC	WF1 50% DAC	WM MAX DAC	WF2 50% DAC	W2 20% DAC	MP1 20% DAC	MPF1 50% DAC	MP MAX DAC	MPF2 50% DAC	MP2 20% DAC	CONTINUOUS (C) OR SPOT (S) TRANSVERSE (T) OR PARALLEL (P)	CW/CCW TOP OR BOTTOM
		NO RECORDABLE INDICATIONS											

REMARKS: EXAMINED 31" CCW FROM ℄ OF N3A TO 26" CW OF N3B. ALSO EXAMINED 47" CCW OF N3C TO 47" CW OF N3D. NO EXAM WAS PERFORMED ON THE TOPSIDE OF THE WELD due to the configuration of the flange.

EXAMINED BY	LEVEL	10-21-93 DATE	UTILITY REVIEW	1/26/94 DATE	
GE REVIEWED BY		12-21-93 DATE	ANII REVIEW	1/18/94 DATE	PAGE: 1 OF: 1

1/25/94

FORM UT-14 REV. 6

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ULTRASONIC EXAMINATION DATA SHEET

(MANUAL RPV VESSEL WELDS)

GE Nuclear Energy

SITE: Browns Ferry | PROCEDURE NO.: GE-UT-300 | REPORT NO.: E-20

UNIT: 3 | REVISION NO.: 6 | DATA SHEET NO.: D-008

PROJECT NO.: 00387 | FRR NO.: 004 | CALIBRATION SHEET NO.: 0° N/A

45° N/A 60° C-108

SYSTEM: RPV | EXAM SURFACE TEMP: 69 °F | COUPLANT: Ultragel II | EXAM START: 1540

WELD ID: C-5-FLG | THERMOMETER S/N: L0281CL | BATCH NO.: 093011 | EXAM END.: 1625

BEAM ANGLE: ☐ 0° ☐ 45° ☒ 60° ☐ OTHER N/A | SURFACE CONDITION: ☒ SMOOTH ☐ GROUND ☐ OTHER N/A

MATERIAL TYPE: ☒ CS ☐ SS ☐ OTHER N/A | EXAM SURFACE: ☐ ID ☒ OD

Lo REFERENCE VESSEL 0°

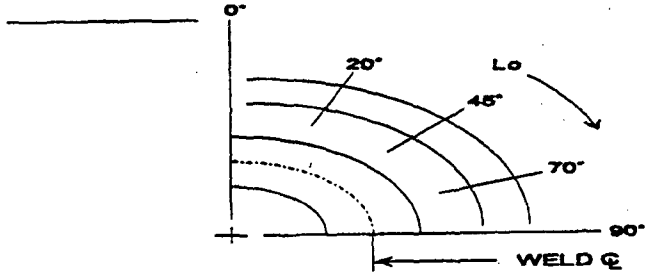
Wo REFERENCE WELD ℄

0° SCAN SENSITIVITY N/A dB

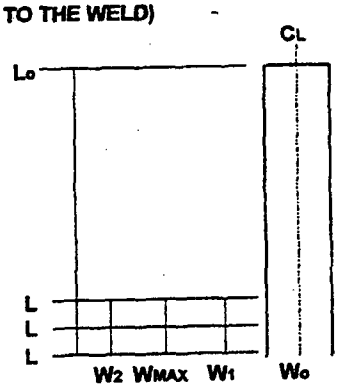
45° SCAN SENSITIVITY N/A dB

60° SCAN SENSITIVITY 60 dB

NOZZLE WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



L/R	% DAC (MAX)	W1 20% DAC	WF1 50% DAC	WM MAX DAC	WF2 50% DAC	W2 20% DAC	MP1 20% DAC	MPF1 50% DAC	MP MAX DAC	MPF2 50% DAC	MP2 20% DAC	CONTINUOUS (C) OR SPOT (S) TRANSVERSE (T) OR PARALLEL (P)	CW/CCW TOP OR BOTTOM
		NO RECORDABLE INDICATIONS											

REMARKS: EXAMINED 31" CCW FROM ℄ OF N3A TO 26" CW OF N3B. ALSO EXAMINED 47" CCW OF N3C TO 47" CW OF N3D. NO EXAM WAS PERFORMED ON THE TOPSIDE OF THE WELD due to the Configuration of the flange.

EXAMINED BY	LEVEL	DATE	UTILITY REVIEW	DATE	
GE REVIEWED BY		DATE	ANII REVIEW	DATE	PAGE: 1 OF: 1

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GE Nuclear Energy

ULTRASONIC EXAMINATION DATA SHEET

(MANUAL RPV VESSEL WELDS)

SITE: BFNP | PROCEDURE NO.: GE-UT-300 | REPORT NO.: E-20

UNIT: 3 | REVISION NO.: 6 | DATA SHEET NO.: 0-009

PROJECT NO.: 00387 | FRR NO.: FRR-004 | CALIBRATION SHEET NO.: 0° C-109

45° N/A 60° N/A

SYSTEM: RPV | EXAM SURFACE TEMP: 70 °F | COUPLANT: ULTRAGEL II | EXAM START: 16:46

WELD ID: C-5-FLG | THERMOMETER S/N: L0250CL | BATCH NO.: 093011 | EXAM END.: 17:22

BEAM ANGLE: ☒ 0° ☐ 45° ☐ 60° ☐ OTHER N/A | SURFACE CONDITION: ☒ SMOOTH ☐ GROUND ☐ OTHER N/A

MATERIAL TYPE: ☒ CS ☐ SS ☐ OTHER N/A | EXAM SURFACE: ☐ ID ☒ OD

Lo REFERENCE VESSEL 0°

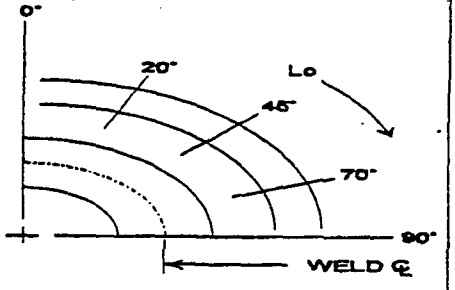
Wo REFERENCE ℄

0° SCAN SENSITIVITY 56.2 dB

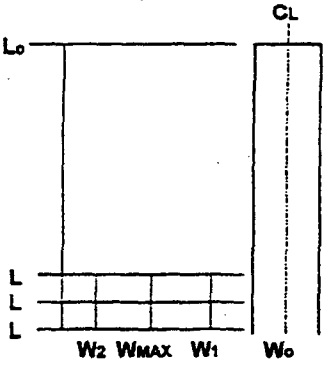
45° SCAN SENSITIVITY N/A dB

60° SCAN SENSITIVITY N/A dB

NOZZLE WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



L/R	% DAC (MAX)	W1 20% DAC	WF1 50% DAC	WM MAX DAC	WF2 50% DAC	W2 20% DAC	MP1 20% DAC	MPF1 50% DAC	MP MAX DAC	MPF2 50% DAC	MP2 20% DAC	CONTINUOUS (C) OR SPOT (S) TRANSVERSE (T) OR PARALLEL (P)	CW/CCW TOP OR BOTTOM
		NO RECORDABLE INDICATIONS, WELD EXAM											

REMARKS: EXAMINED 31" CCW FROM TDC N3A AND ENDING 26" CW FROM TDC N3B

T Borlenghi II 10-24-93
EXAMINED BY LEVEL DATE

Teresa Kimball 12-21-93
GE REVIEWED BY DATE

J R Woody 1/26/94
UTILITY REVIEW DATE

Robert Tuley 1/25/94 1/11/94
ANII REVIEW DATE

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GE Nuclear Energy

ULTRASONIC EXAMINATION DATA SHEET

(MANUAL RPV VESSEL WELDS)

SITE: BFNP | PROCEDURE NO.: GE-UT-300 | REPORT NO.: E-20

UNIT: 3 | REVISION NO.: 0 | DATA SHEET NO.: 0-010

PROJECT NO.: 00387 | FRR NO.: 004 | CALIBRATION SHEET NO.: 0° C-109

45° N/A 60° N/A

SYSTEM: RPV | EXAM SURFACE TEMP: 70 °F | COUPLANT: ULTRAGEL II | EXAM START: 1040

WELD ID: C-5-FLG | THERMOMETER S/N: L0250CL | BATCH NO.: 093011 | EXAM END.: 1722

BEAM ANGLE: ☑ 0° ☐ 45° ☐ 60° ☐ OTHER N/A | SURFACE CONDITION: ☑ SMOOTH ☐ GROUND ☐ OTHER N/A

MATERIAL TYPE: ☑ CS ☐ SS ☐ OTHER N/A | EXAM SURFACE: ☐ ID ☑ OD

Lo REFERENCE VESSEL 0°

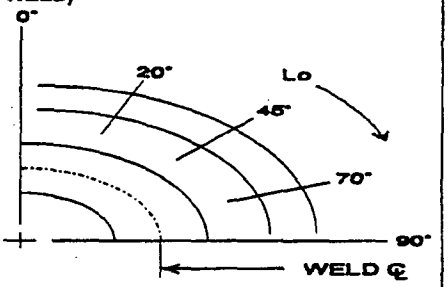
Wo REFERENCE ℄

0° SCAN SENSITIVITY 40 dB

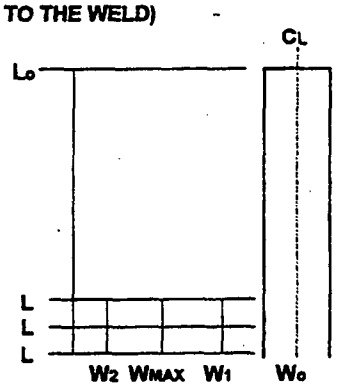
45° SCAN SENSITIVITY N/A dB

60° SCAN SENSITIVITY N/A dB

NOZZLE WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



WELD REFERENCE SYSTEM (Lo AND Wo ARE INTERCHANGED WHEN SCANNING FOR REFLECTORS TRANSVERSE TO THE WELD)



L/R	% DAC (MAX)	W1 20% DAC	WF1 50% DAC	WM MAX DAC	WF2 50% DAC	W2 20% DAC	MP1 20% DAC	MPF1 50% DAC	MP MAX DAC	MPF2 50% DAC	MP2 20% DAC	CONTINUOUS (C) OR SPOT (S) TRANSVERSE (T) OR PARALLEL (P)	CW/CCW TOP OR BOTTOM
		NO RECORDABLE INDICATIONS, BASE METAL											

REMARKS: EXAMINED FROM 59° TO 119°. V5A IS LOCATED AT 90°
EXAMINED 139" STARTING AT 31" CCW FROM TDC N3A AND ENDING 210" CW FROM TDC N3B
TOPSIDE NOT PERFORMED DUE TO FLANGE CONFIGURATION

[illegible] II	LEVEL	10-24-93 DATE	J R Woody	UTILITY REVIEW	1/26/94 DATE
EXAMINED BY					
Donna Kimball		12-21-93 DATE	[illegible]	ANII REVIEW	7/11/94 DATE
GE REVIEWED BY					

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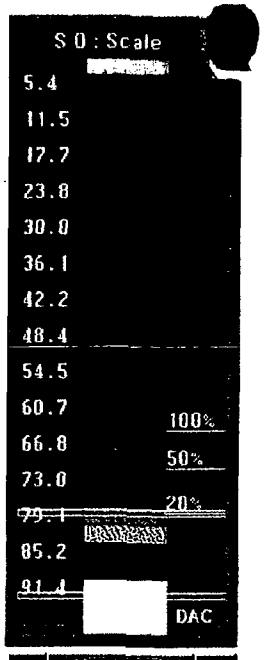

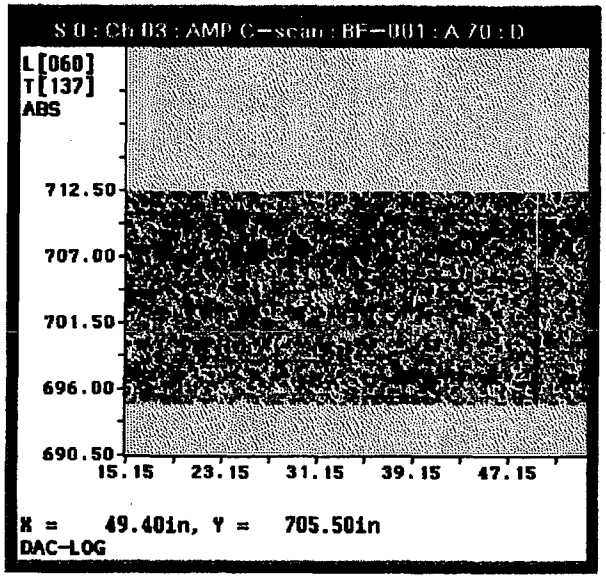

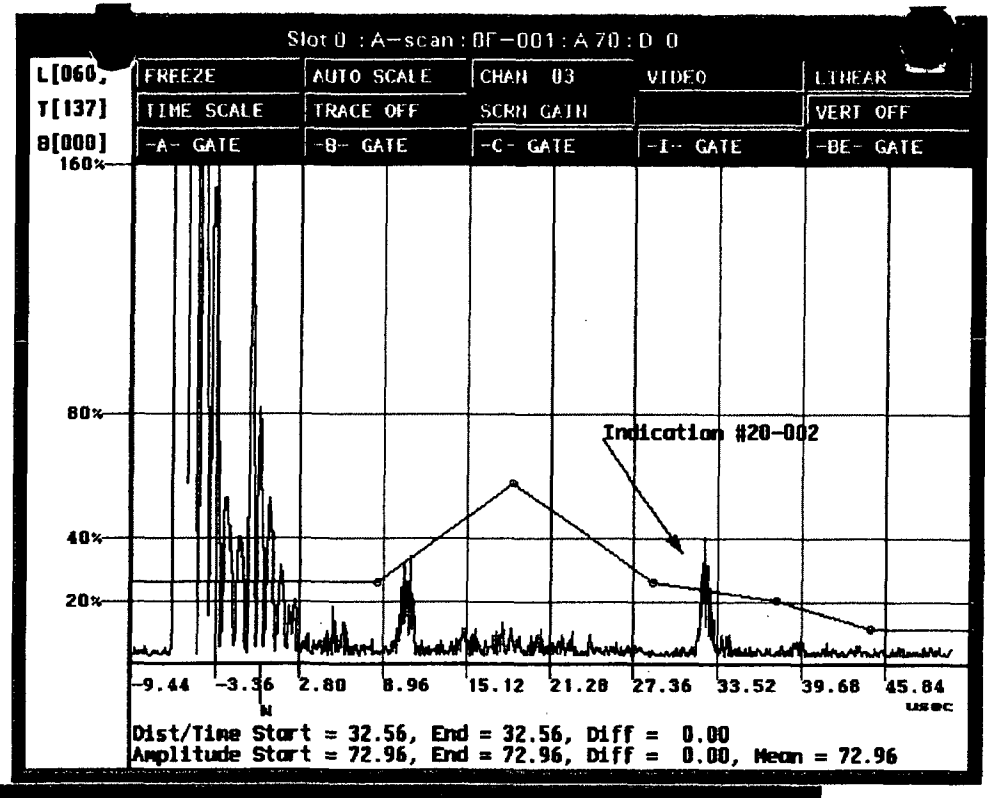

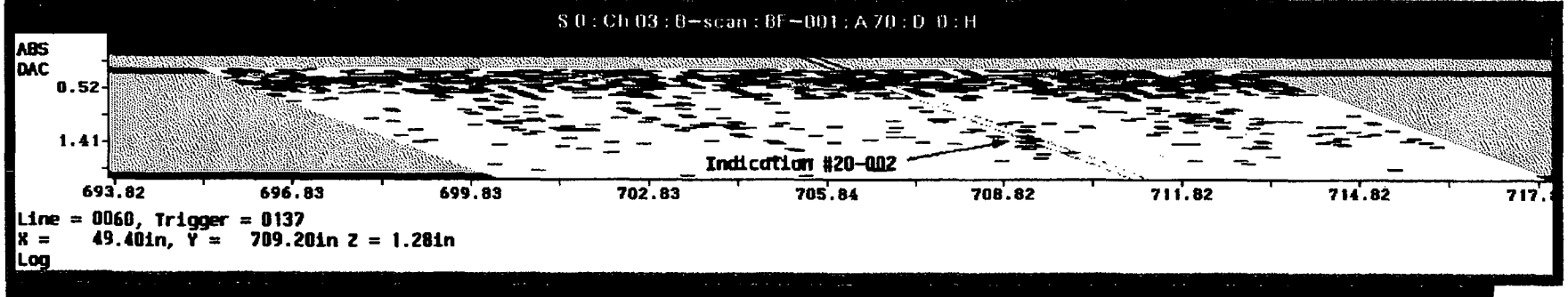

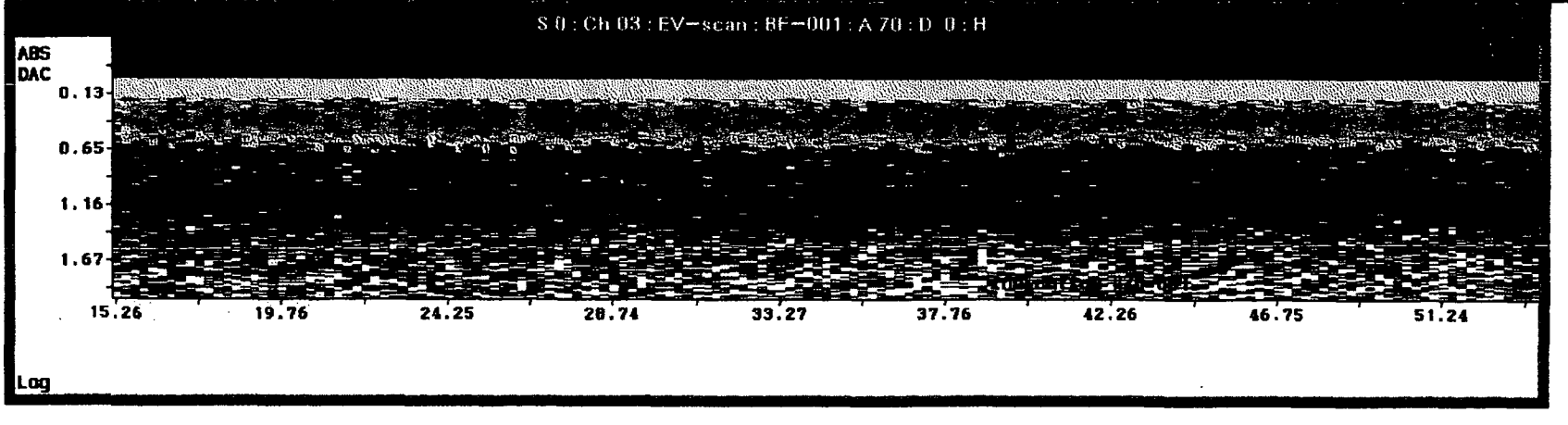

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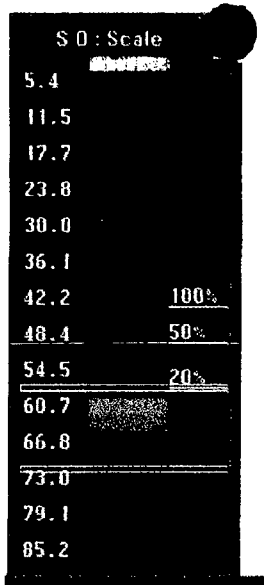

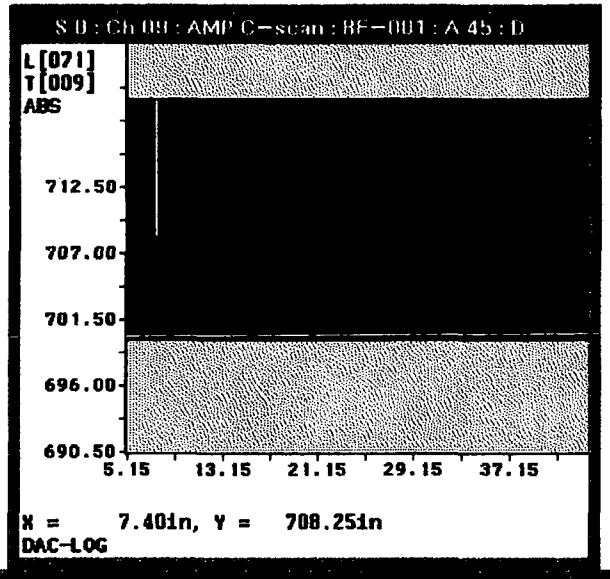

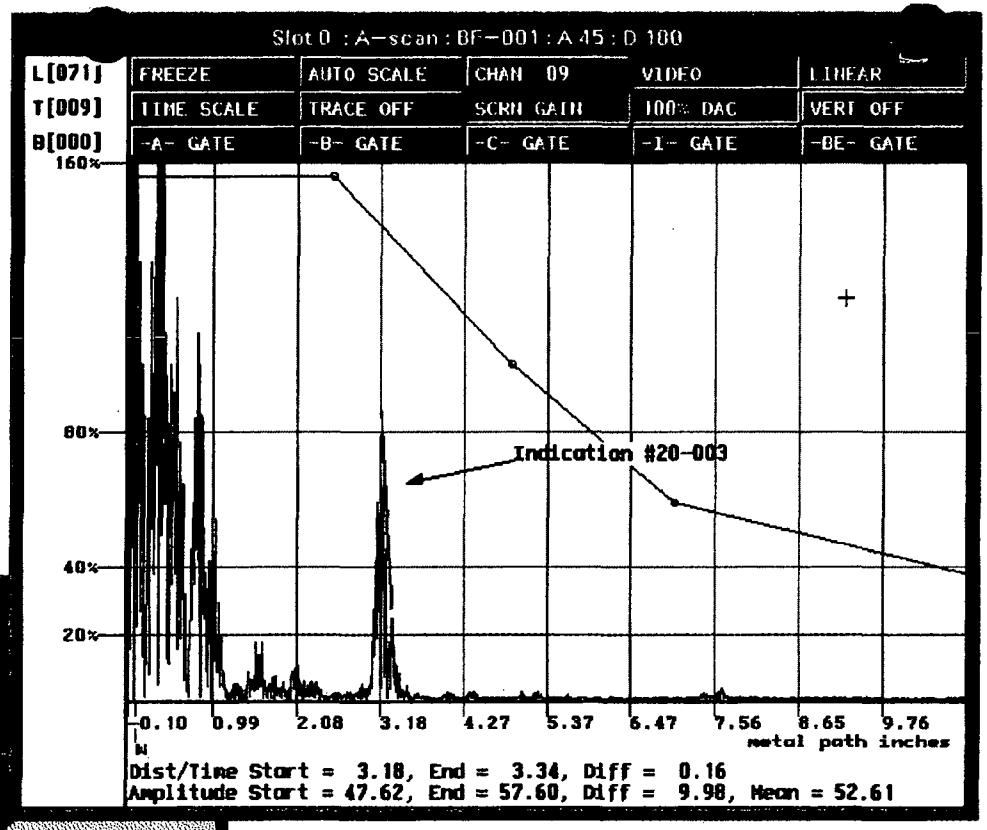

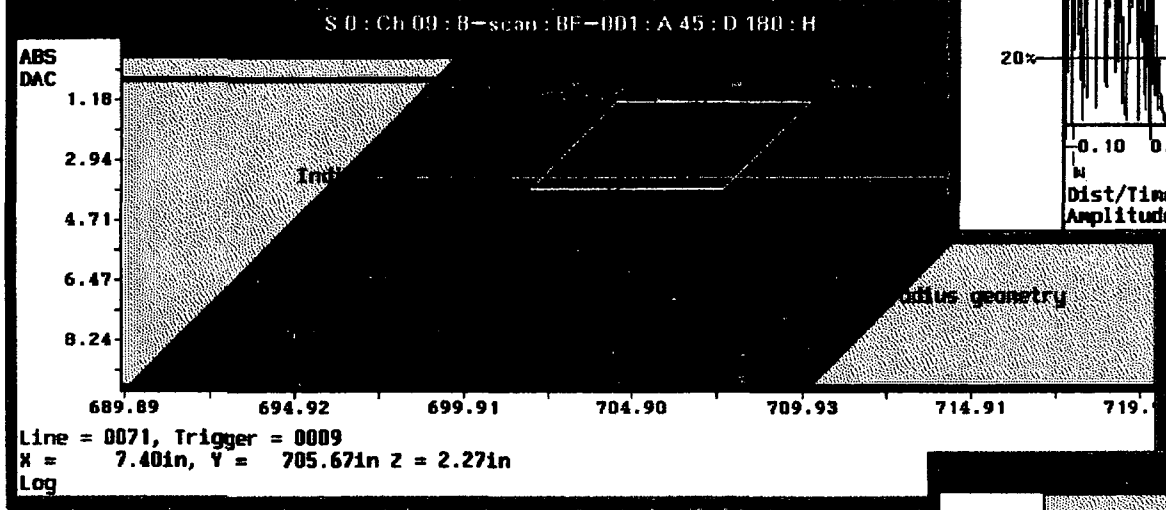

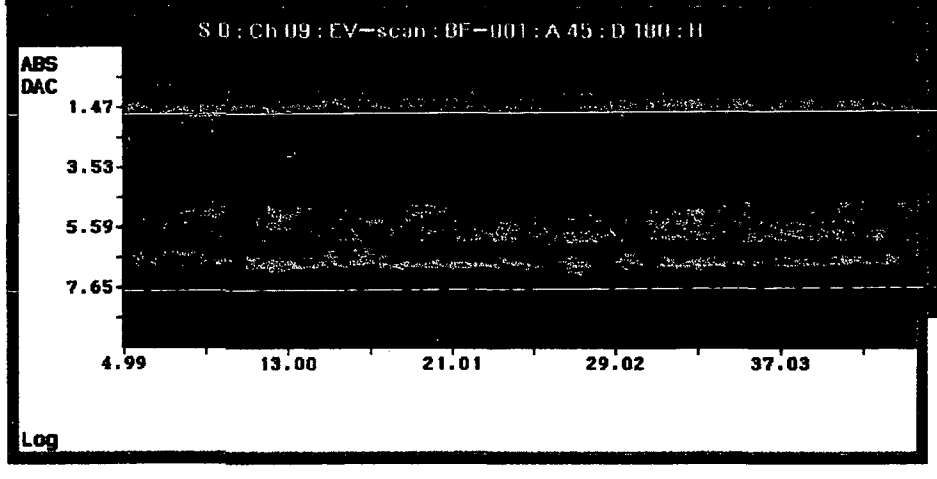

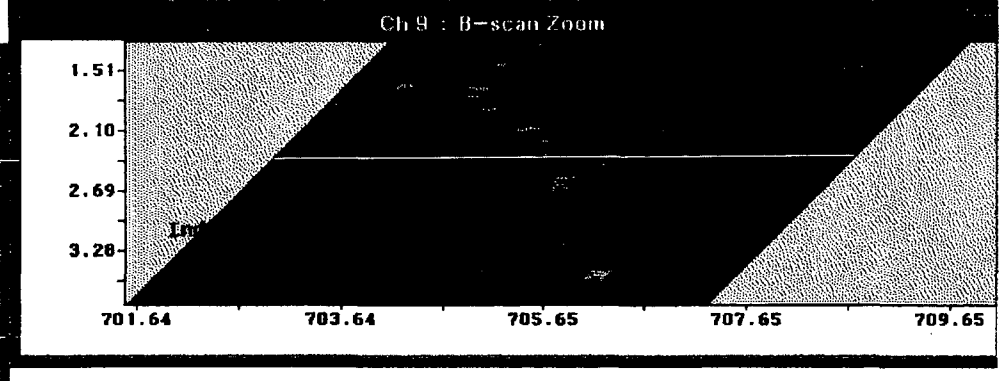

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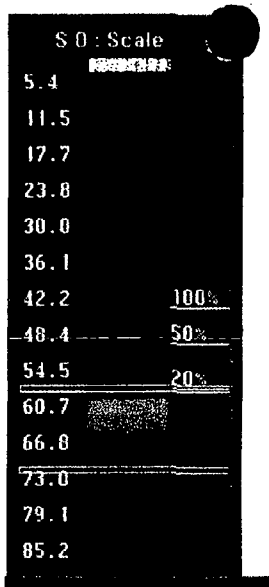

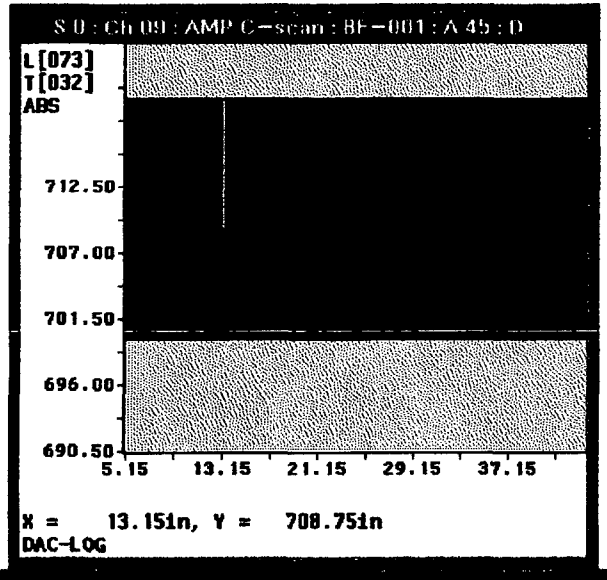

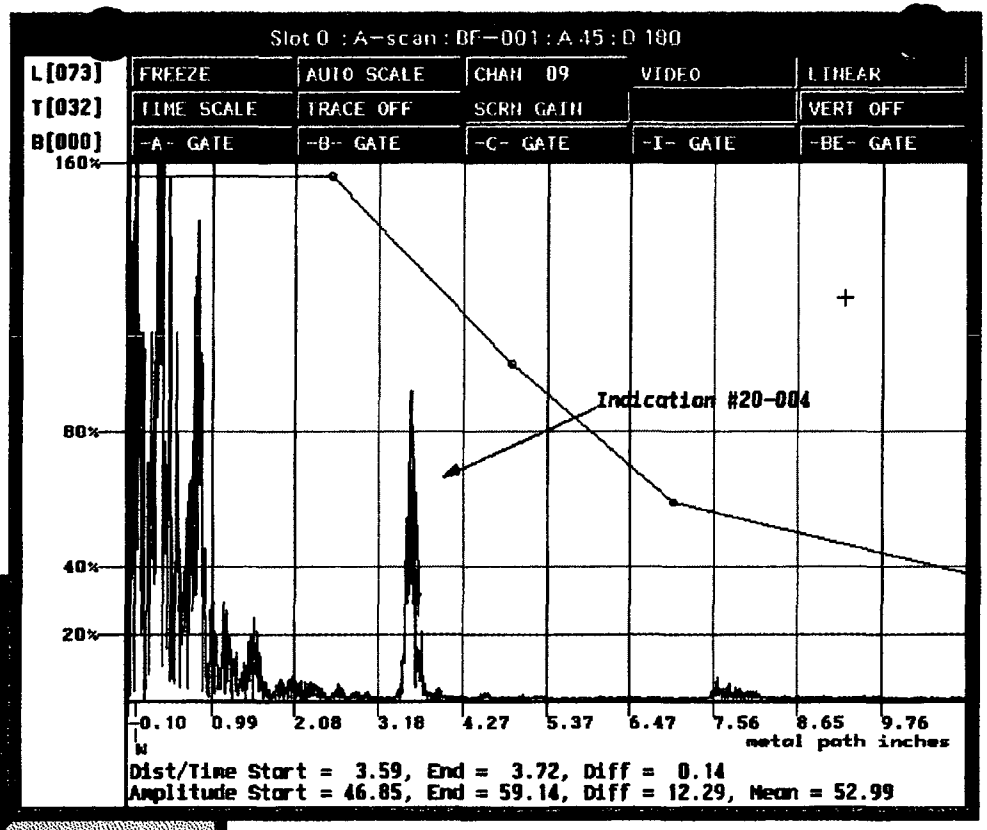

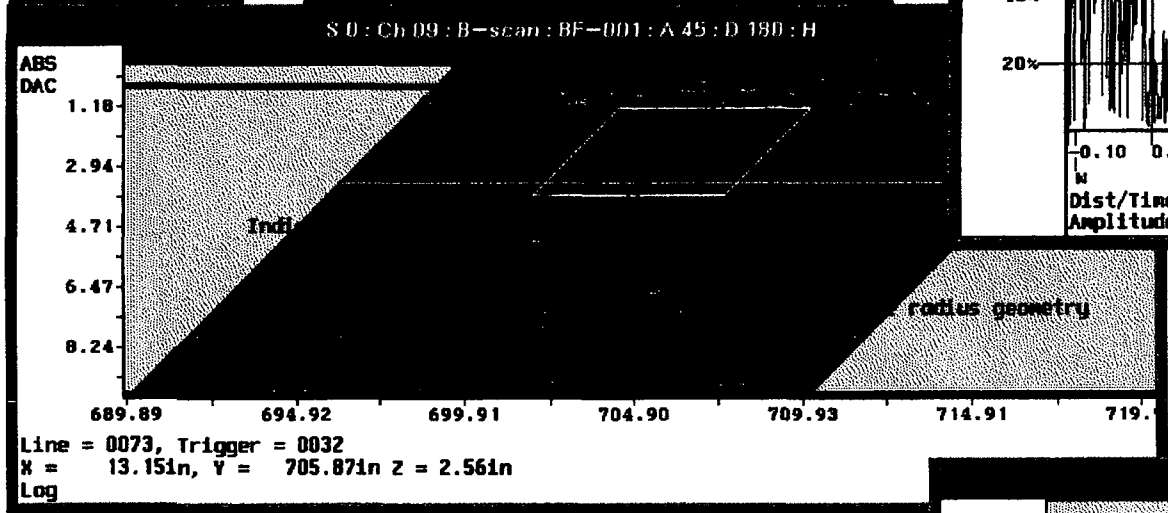

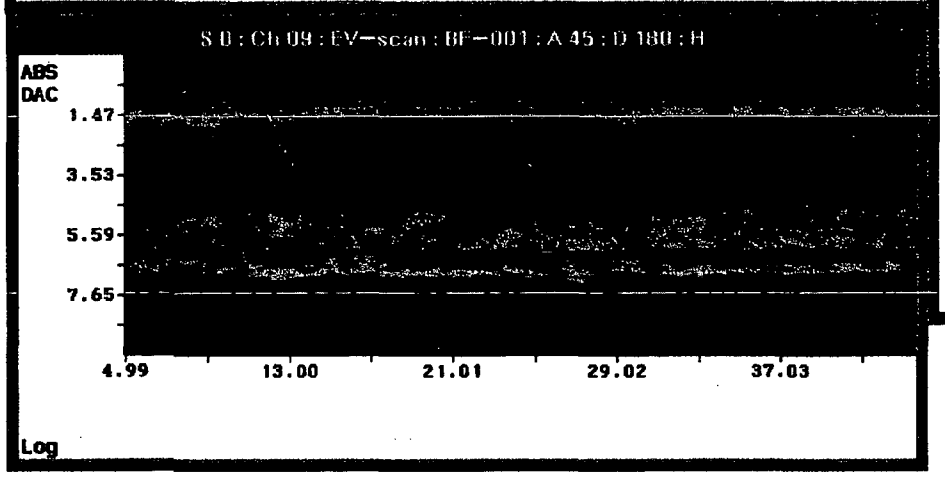

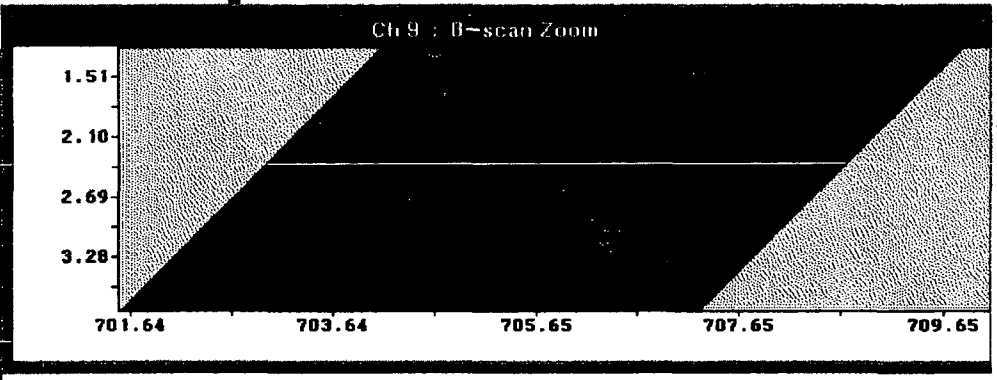

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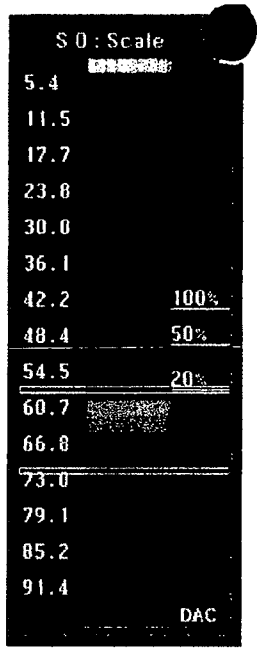

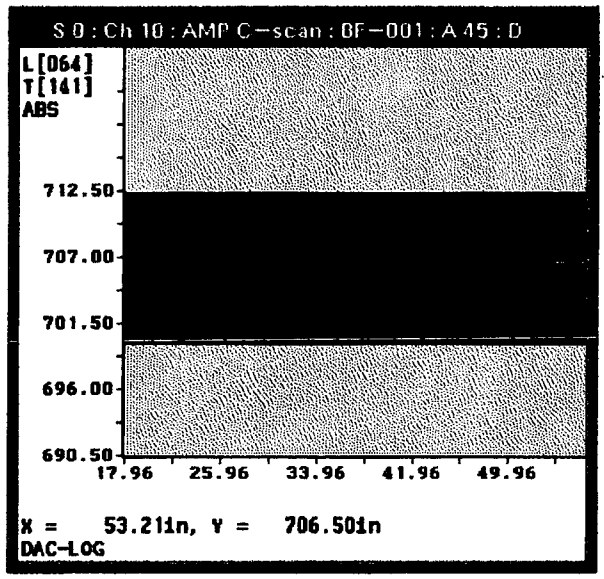

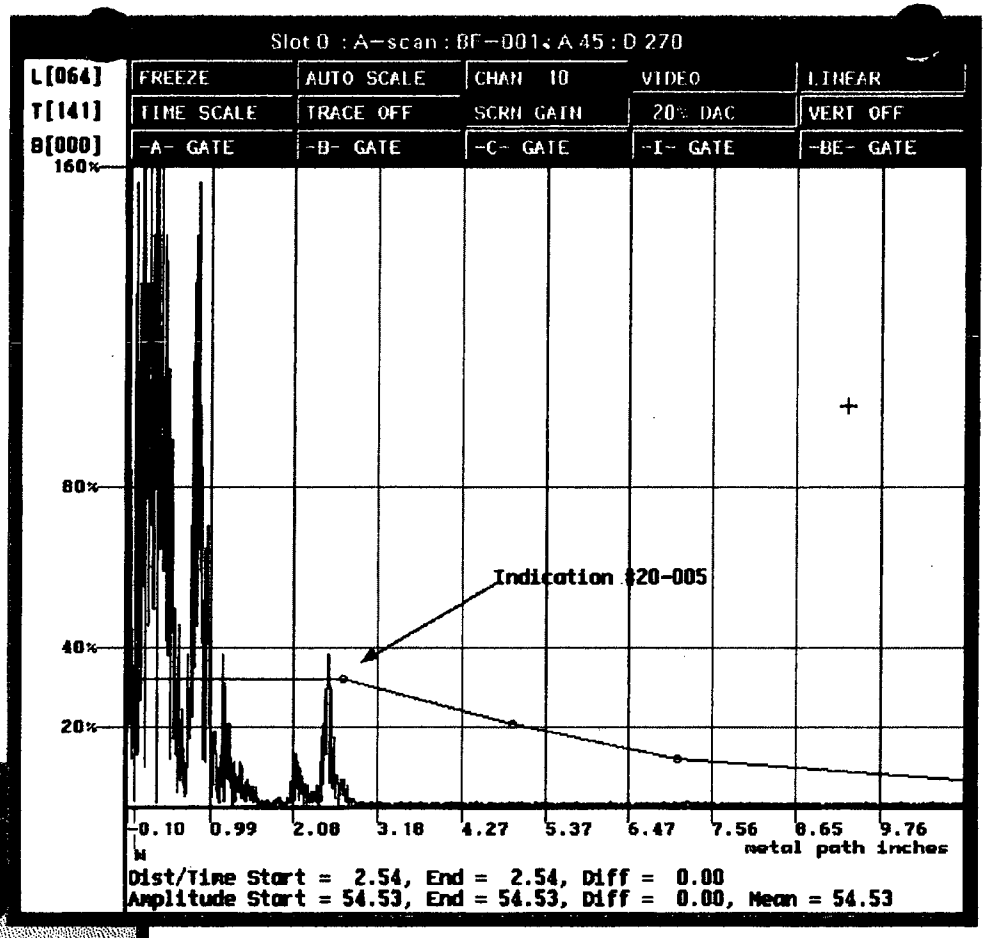

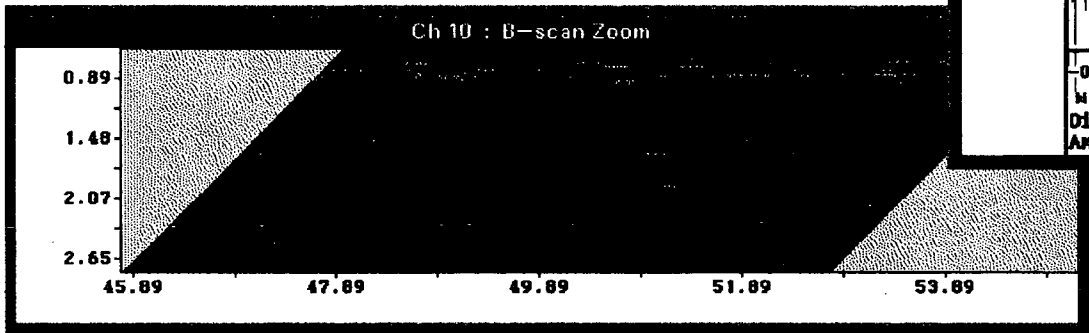

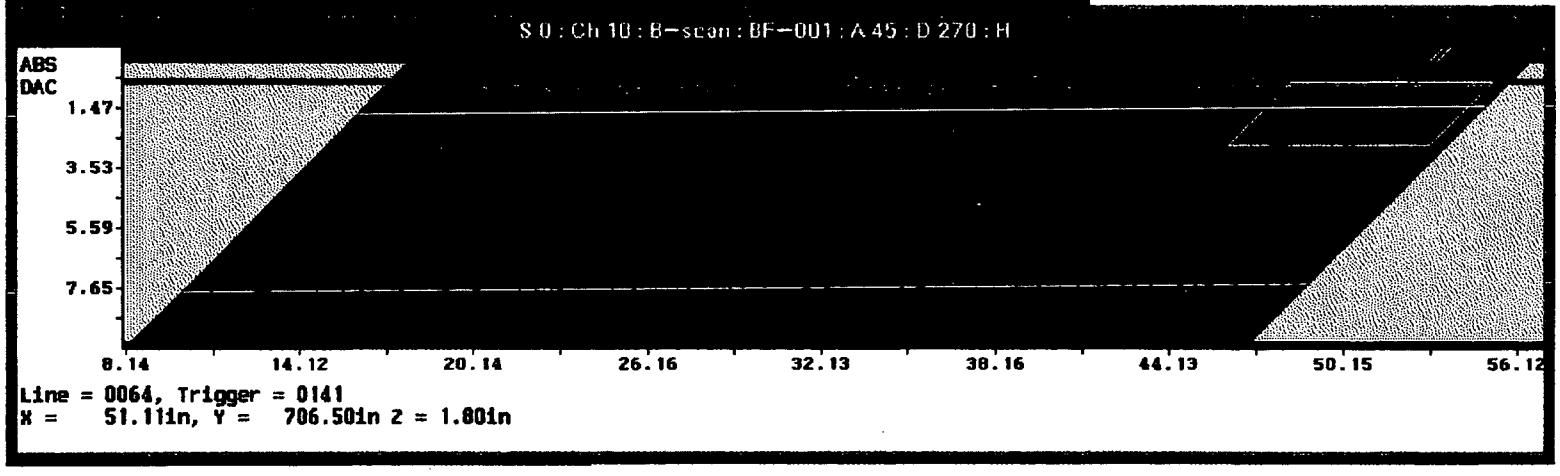

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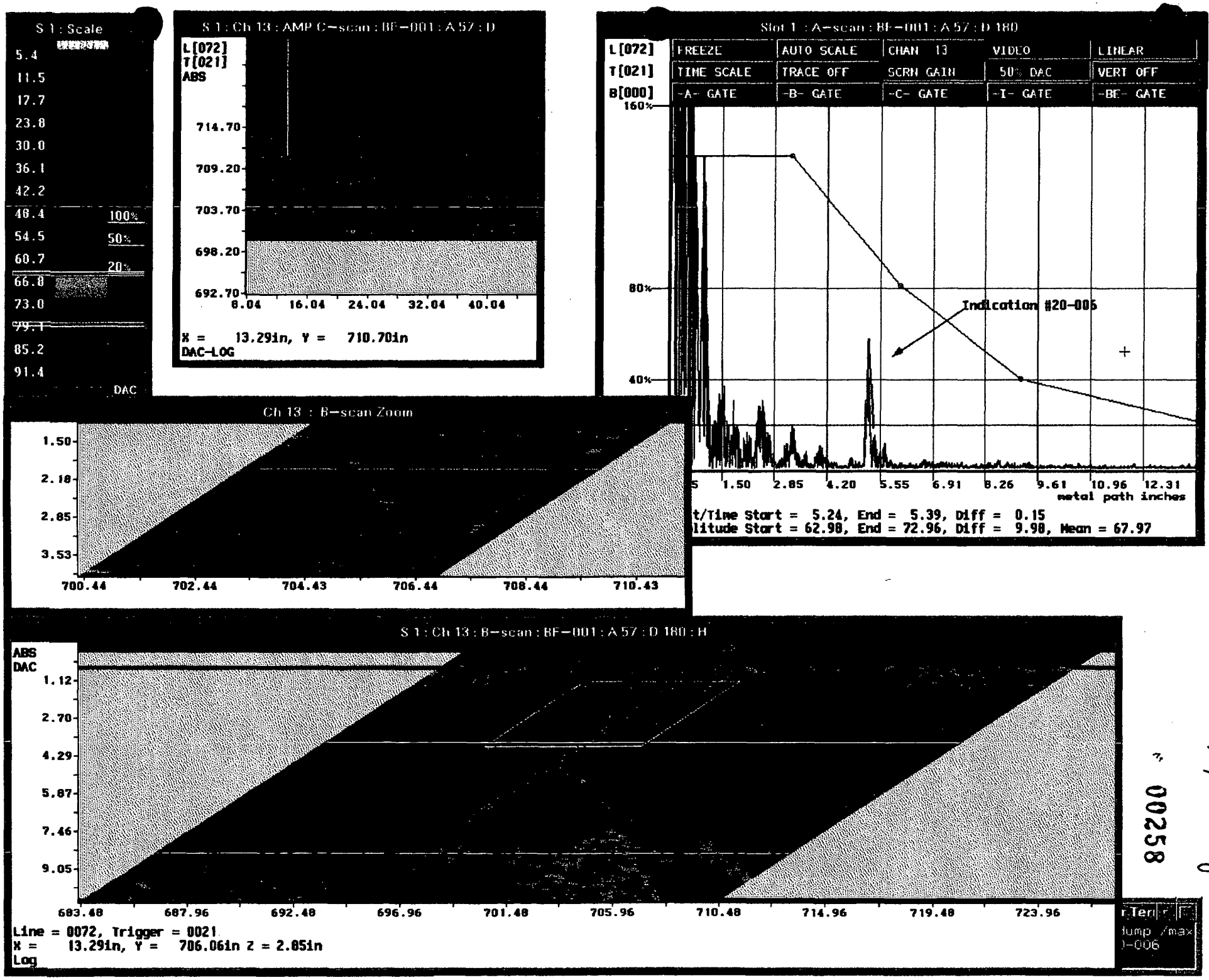

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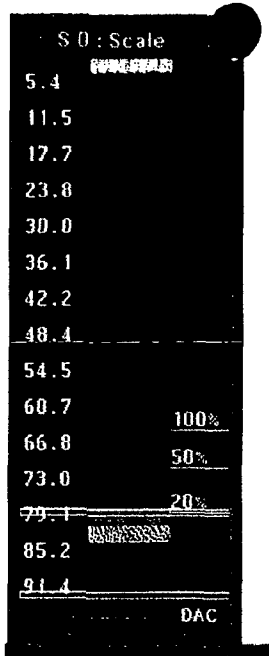

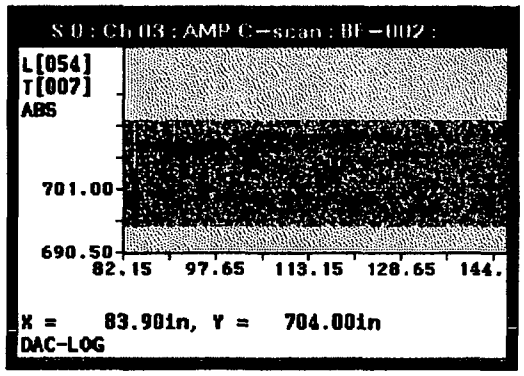

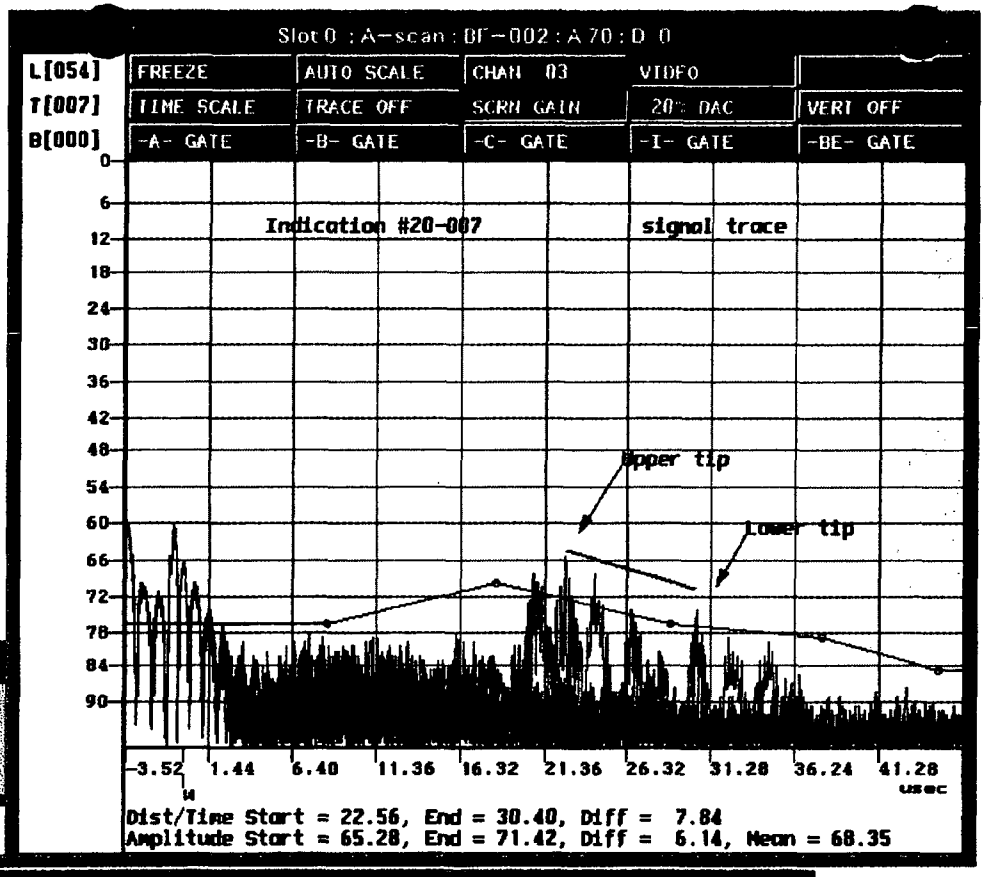

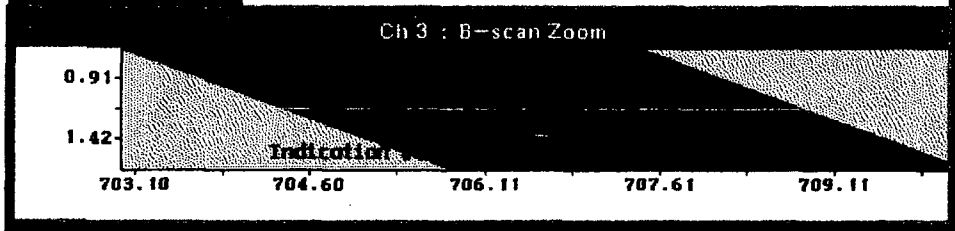

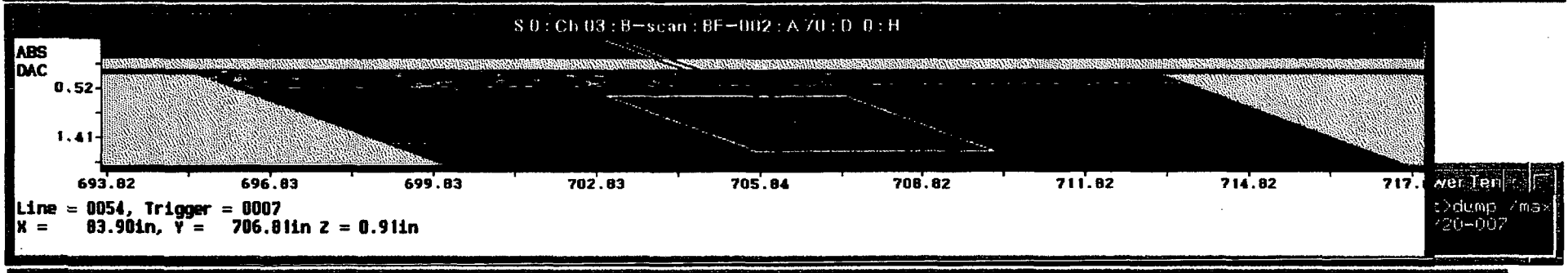

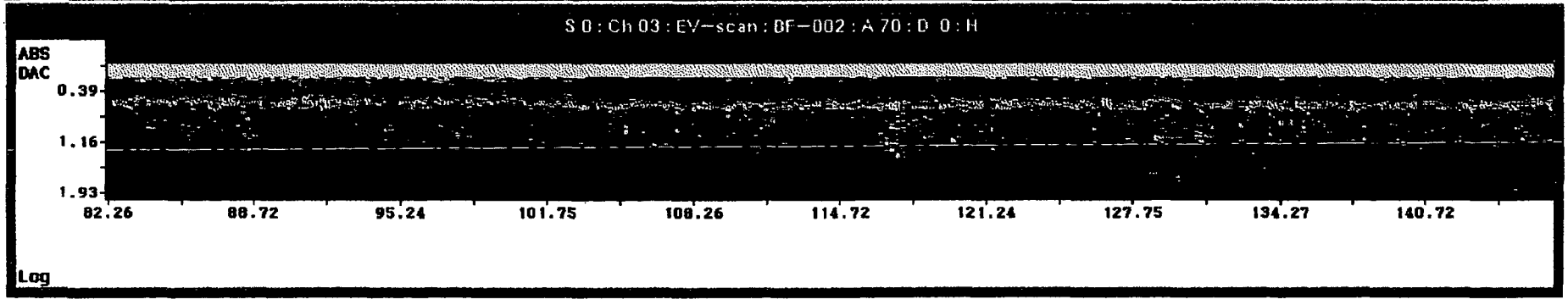

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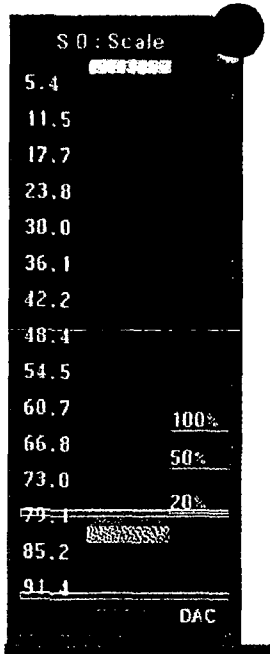

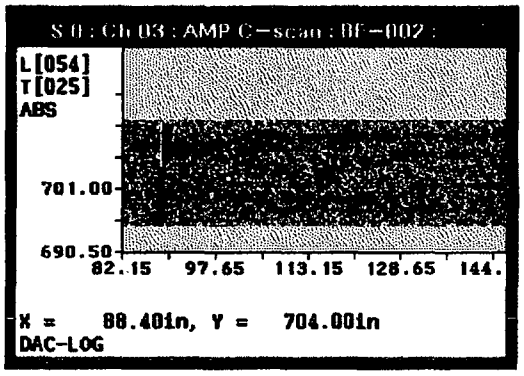

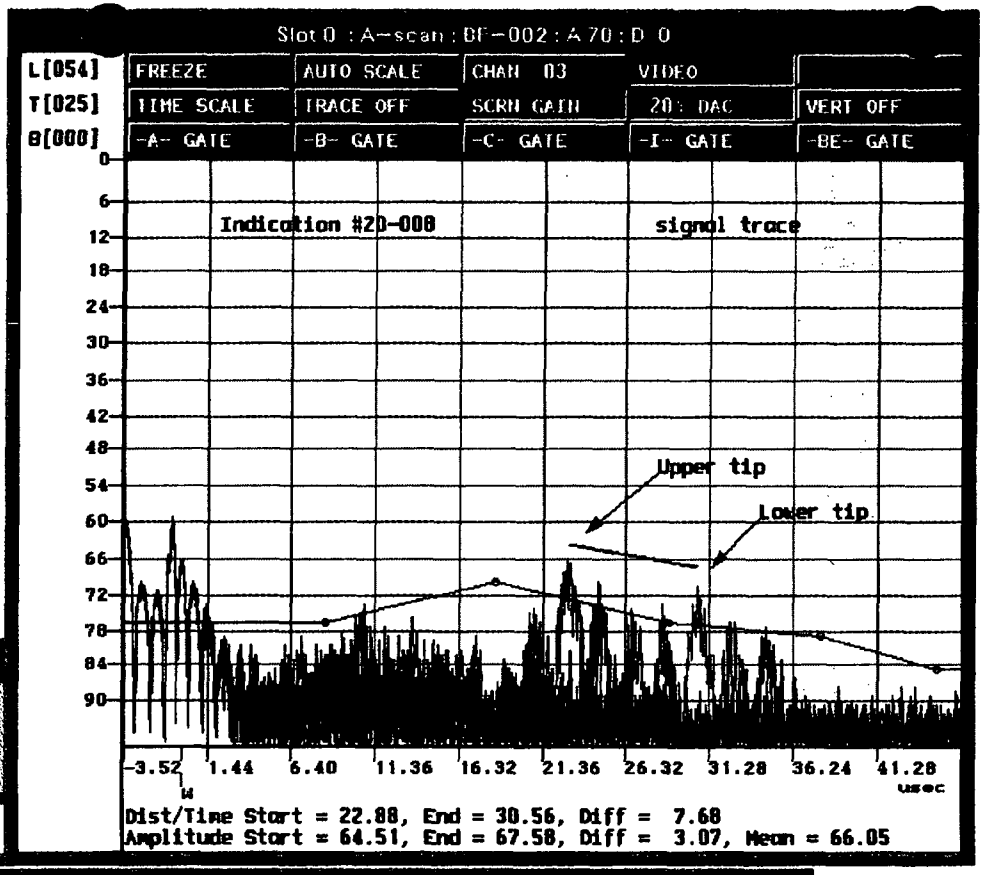

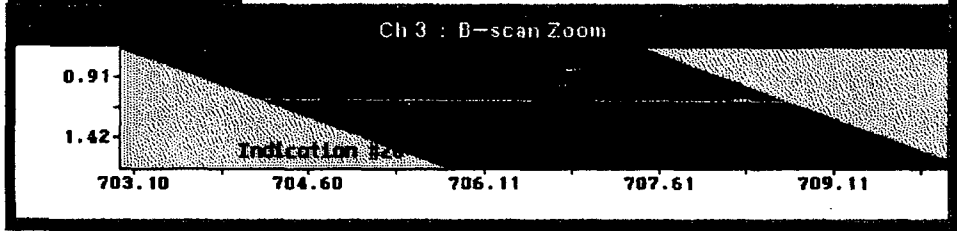

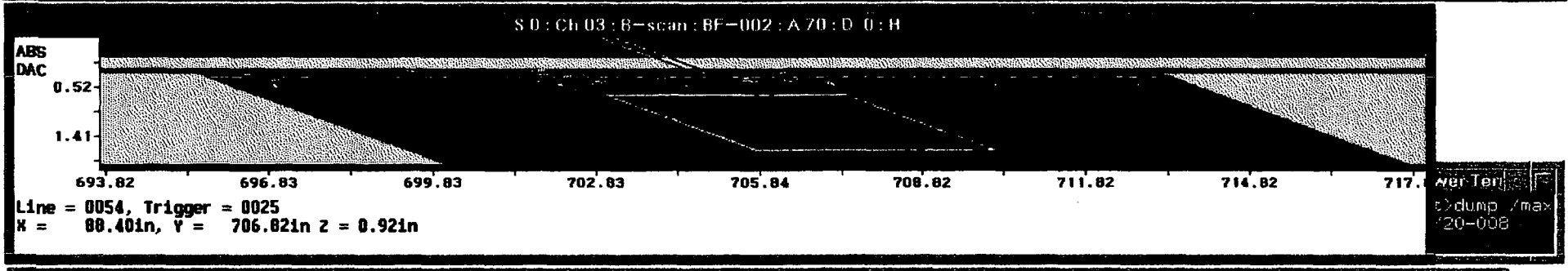

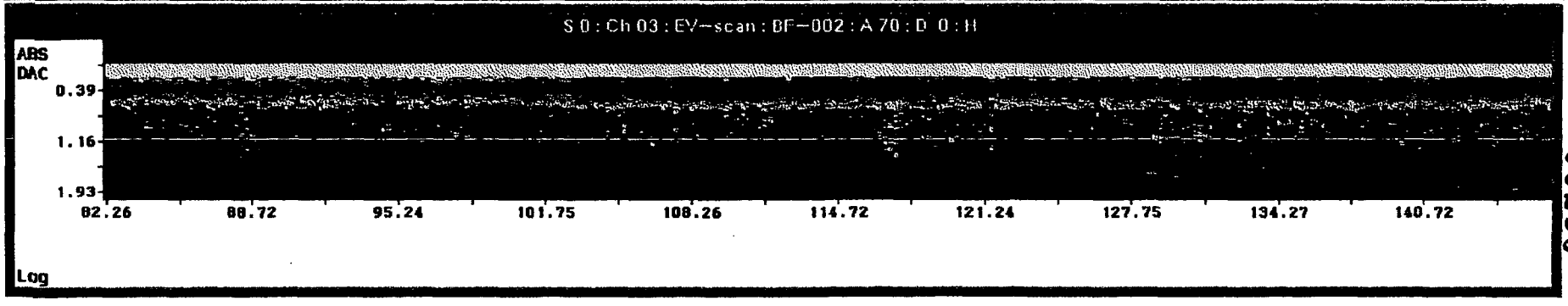

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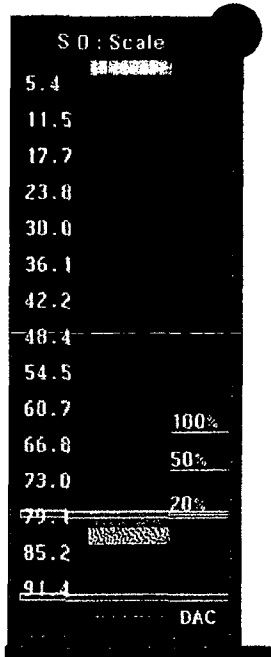

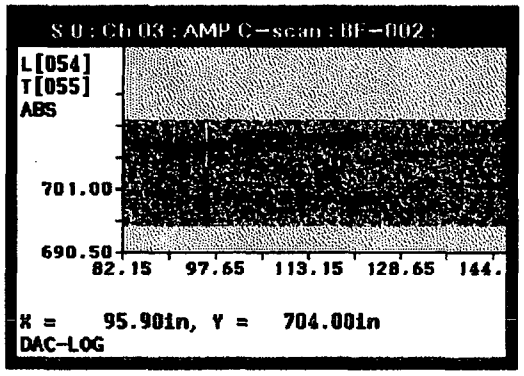

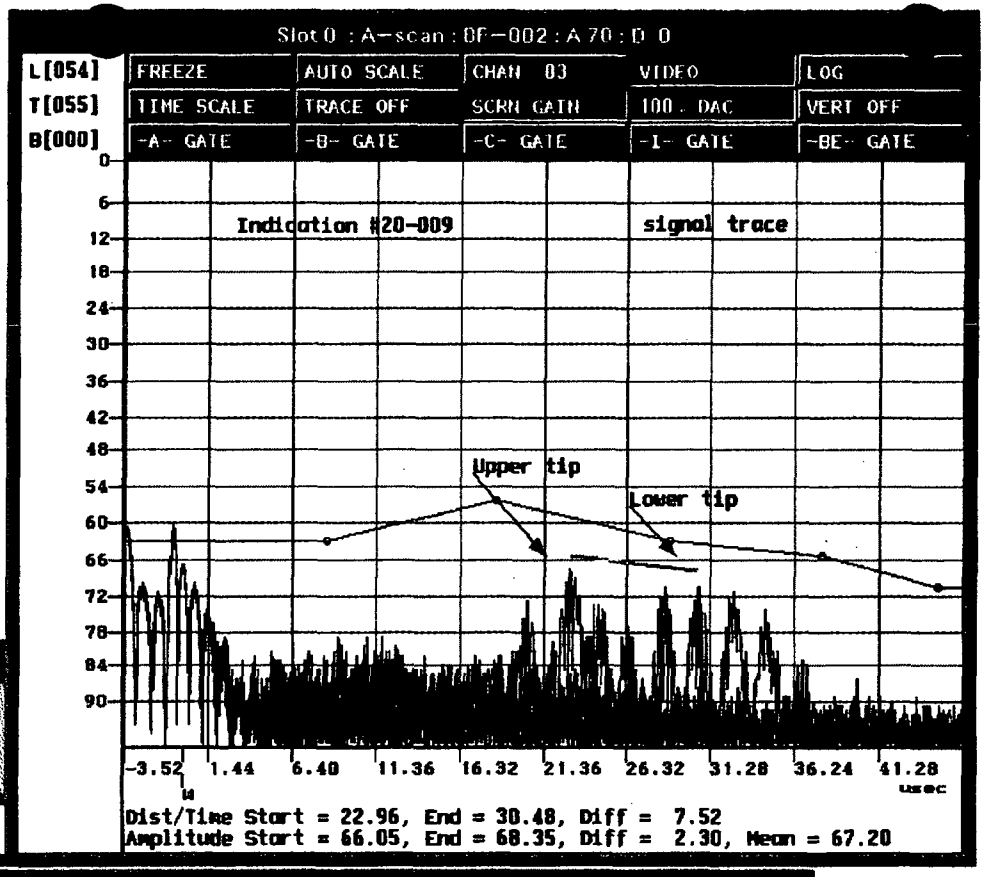

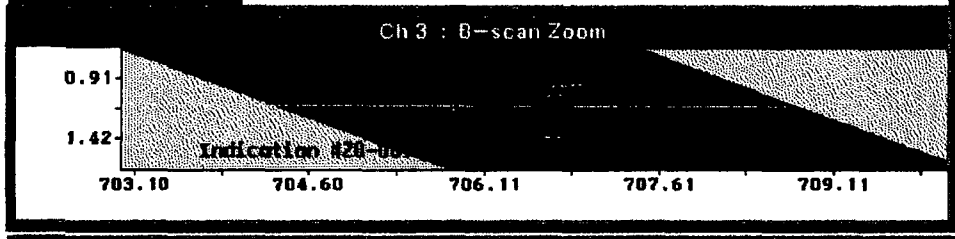

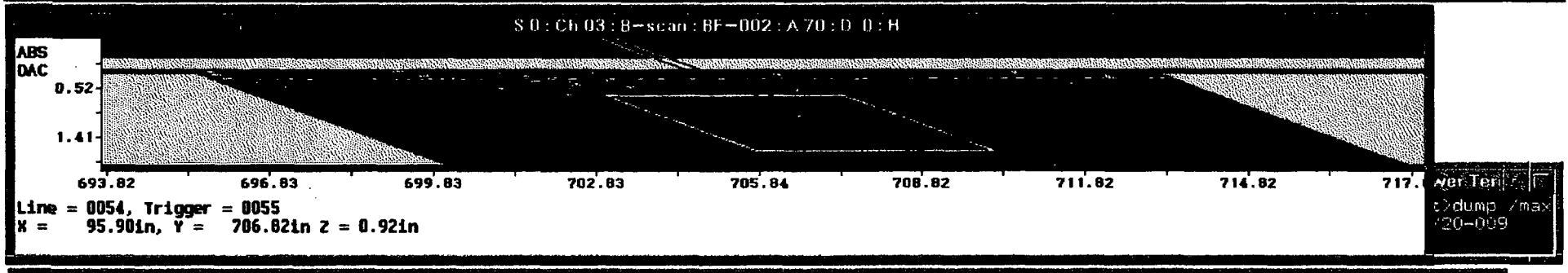

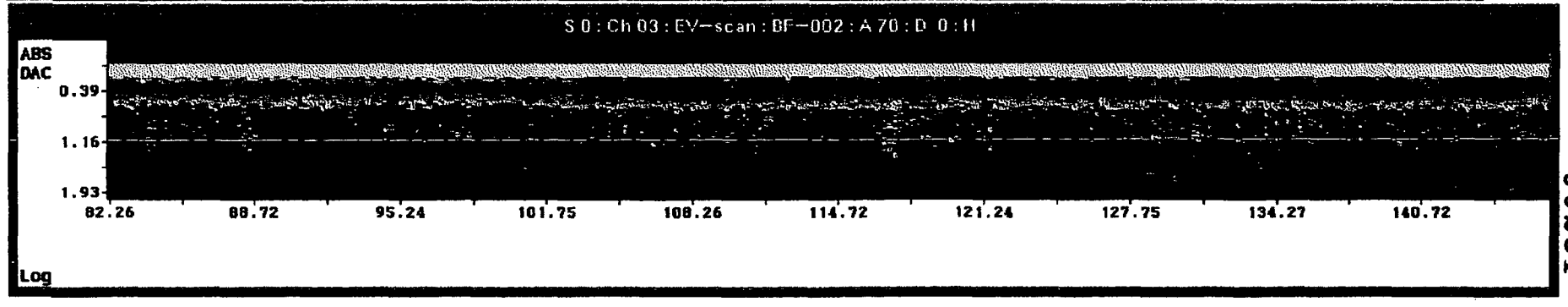

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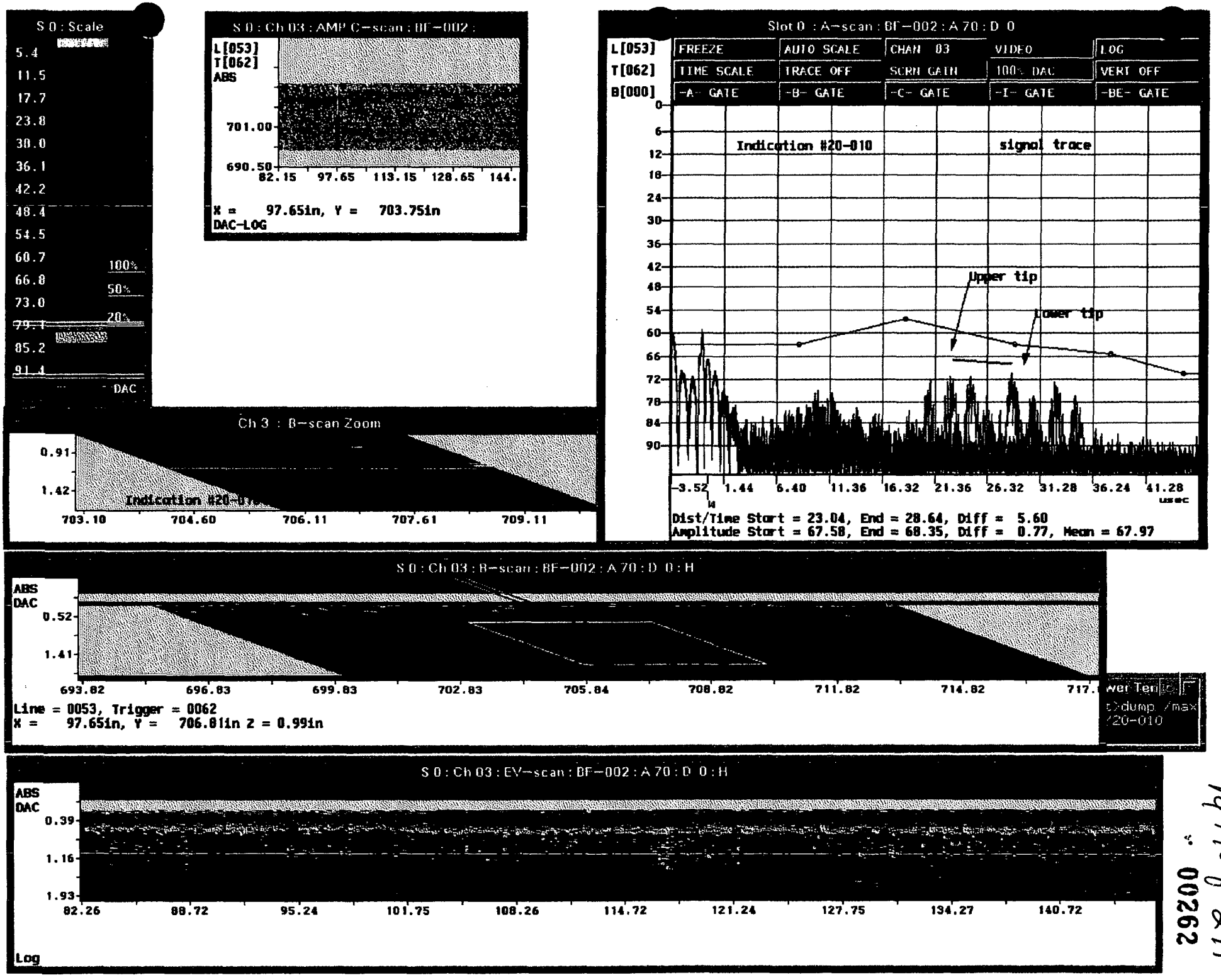

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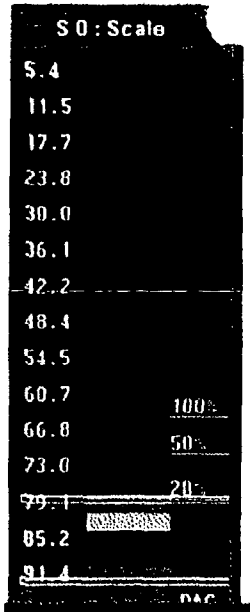

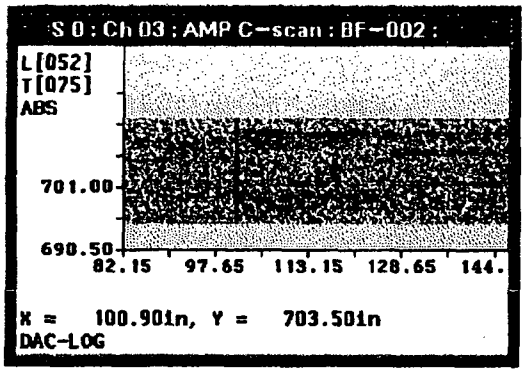

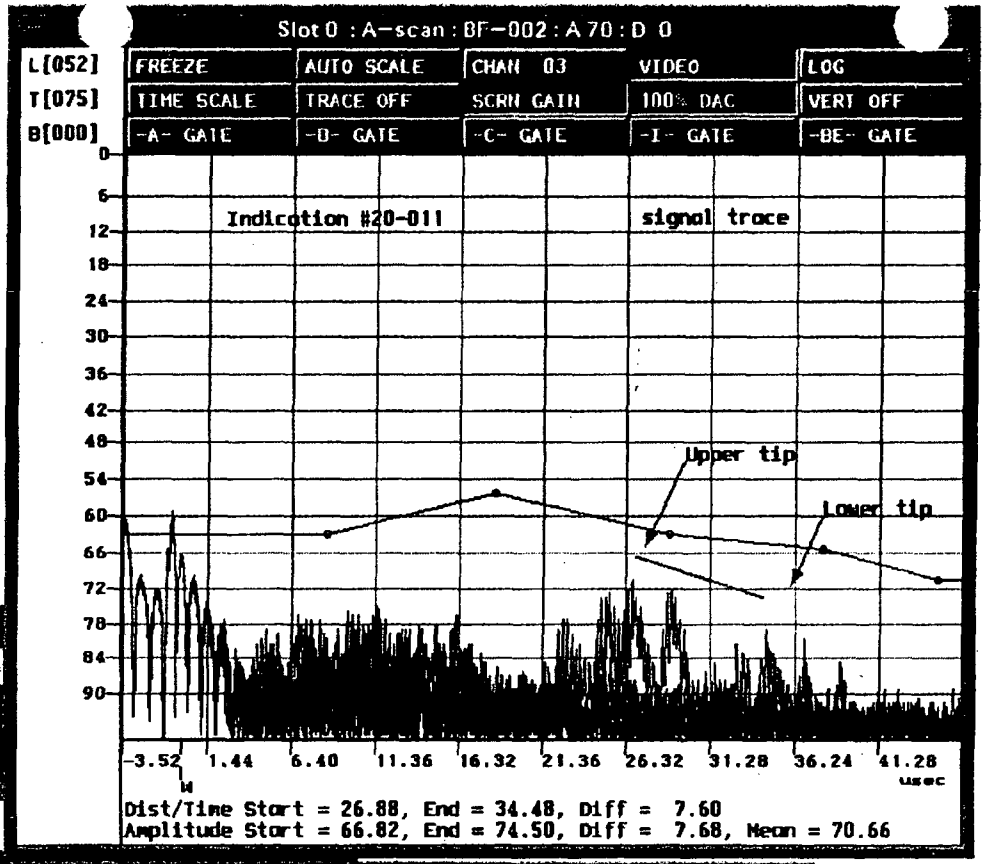

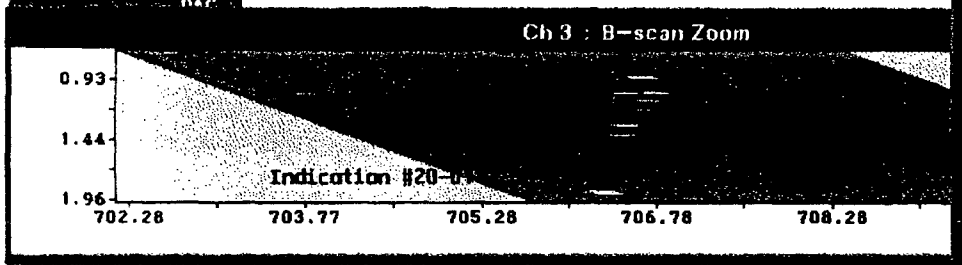

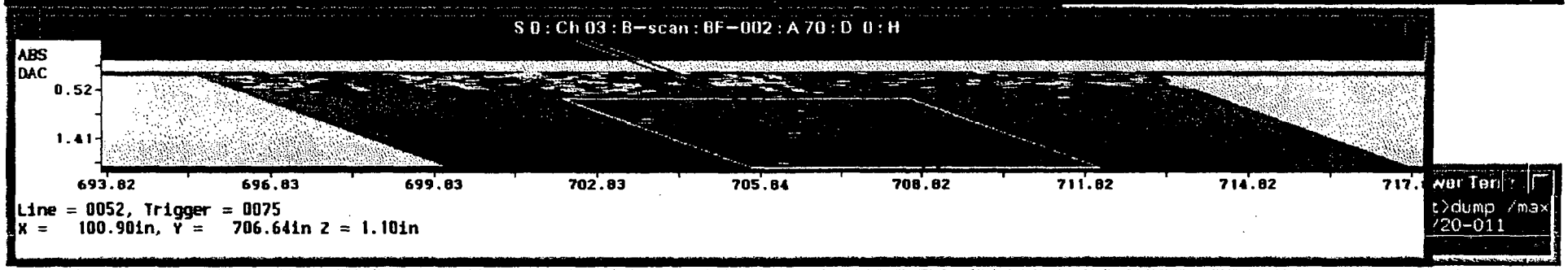

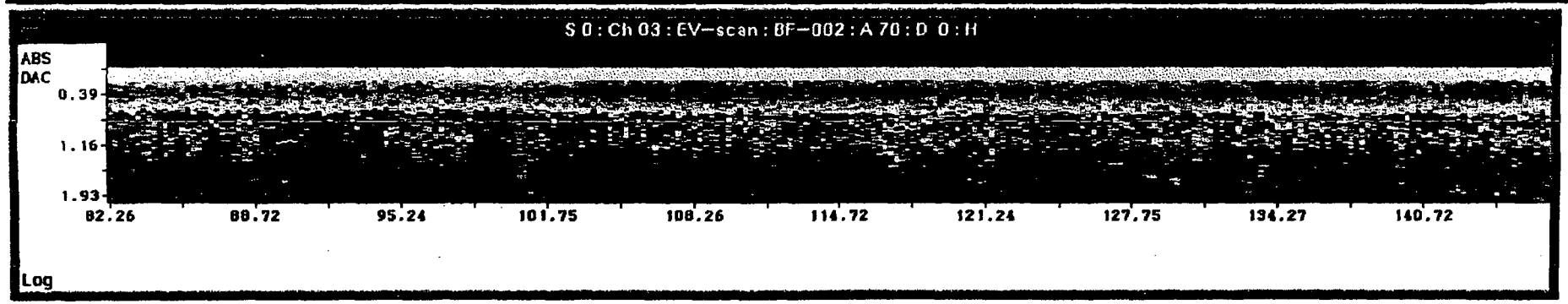

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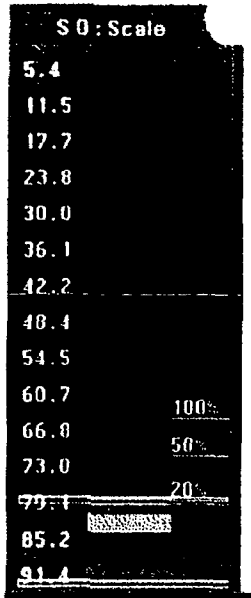

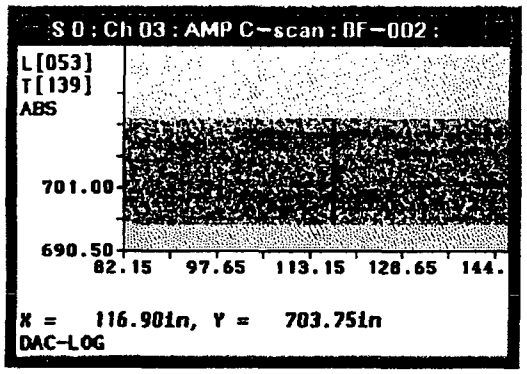

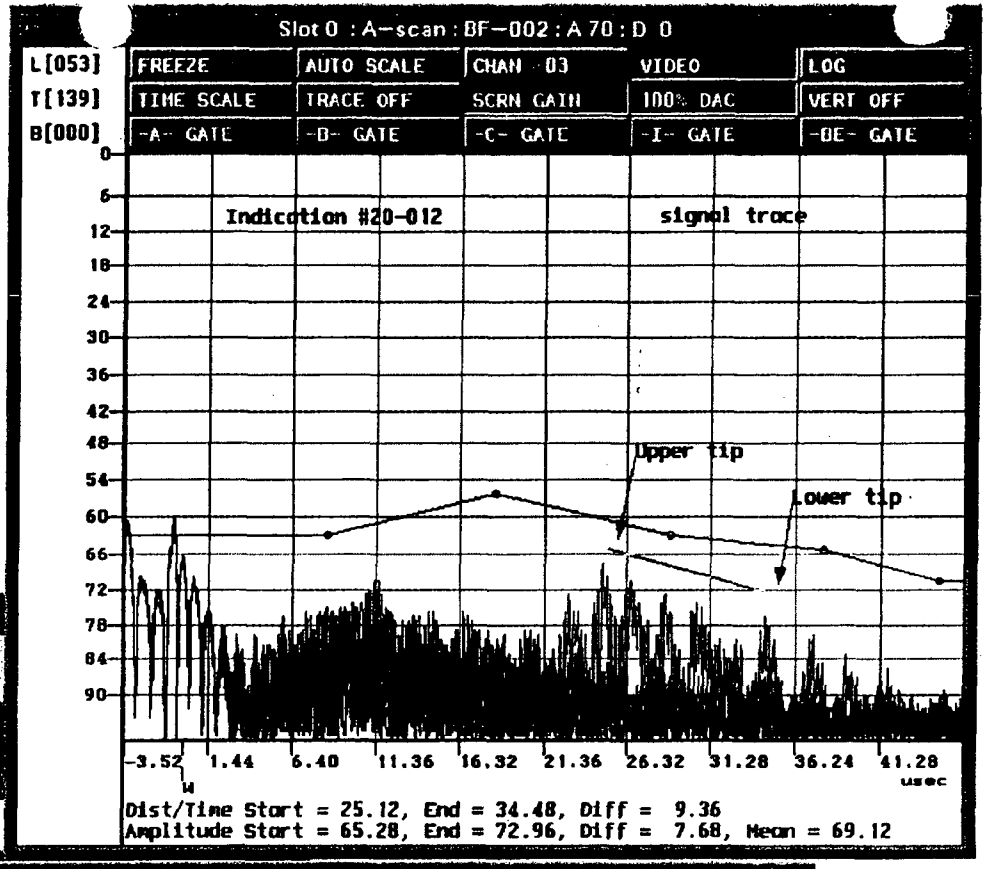

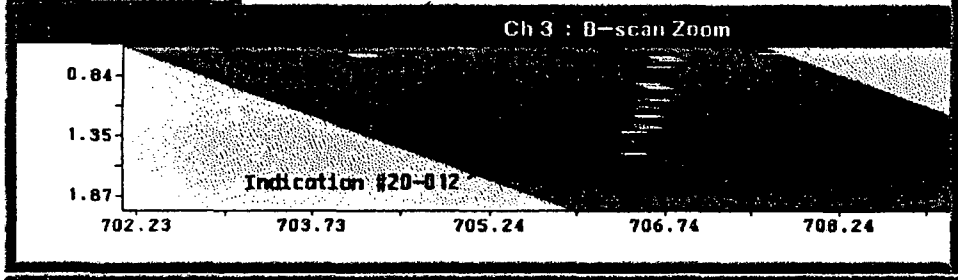

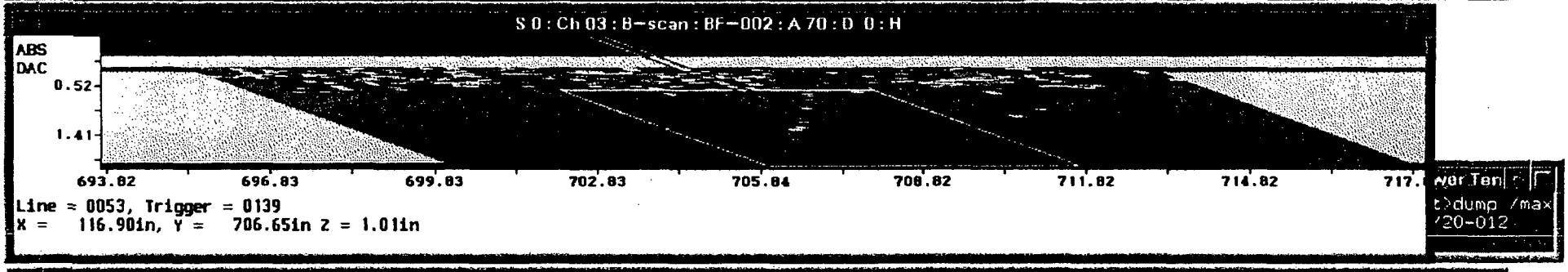

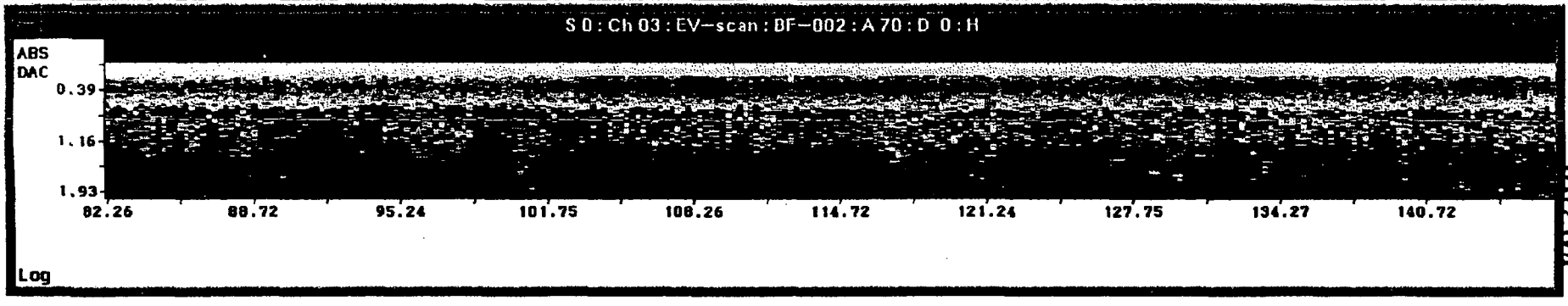

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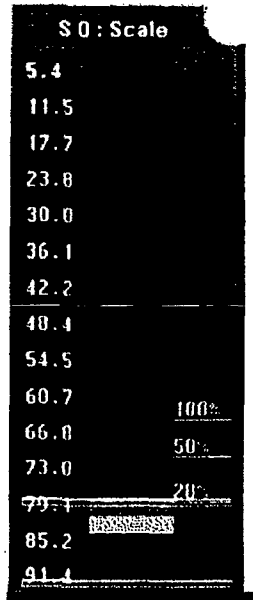

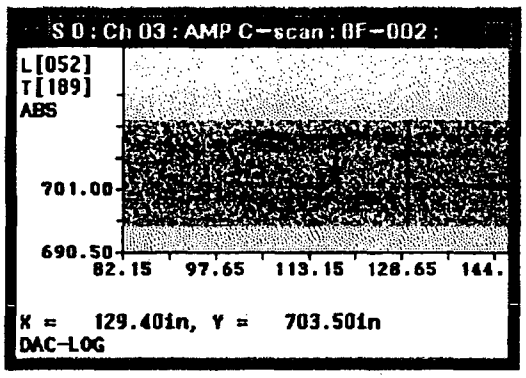

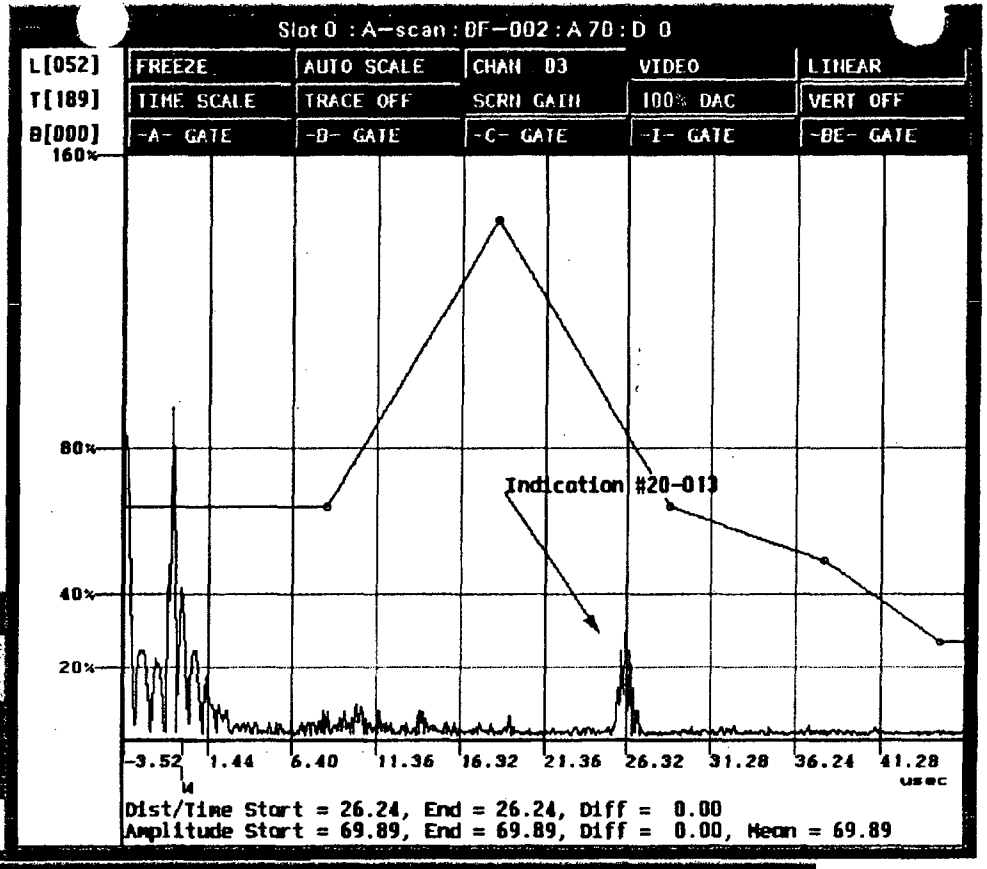

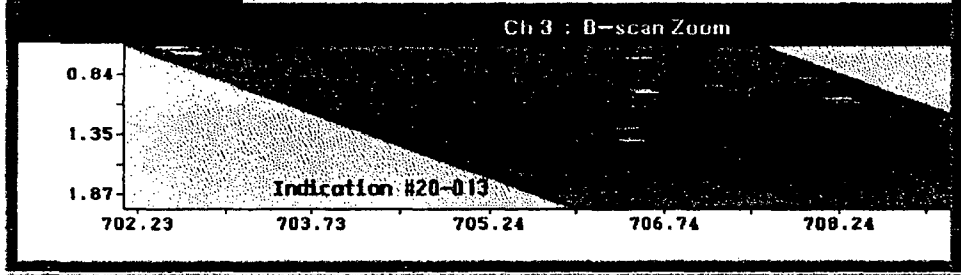

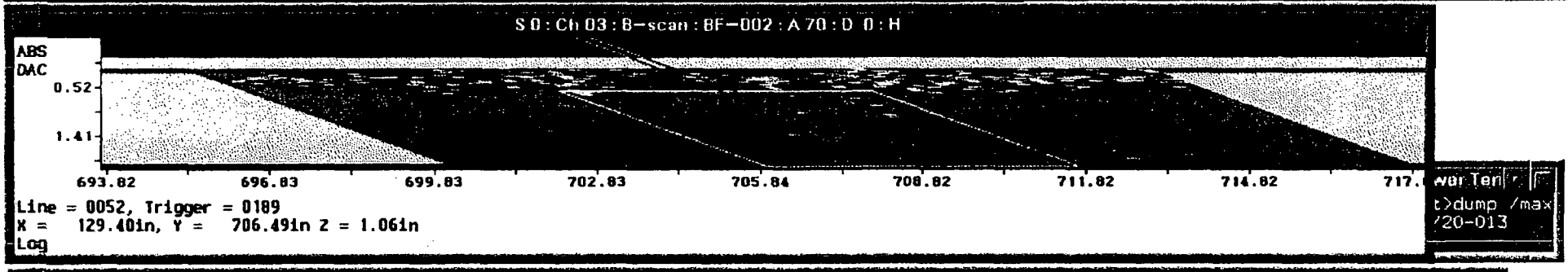

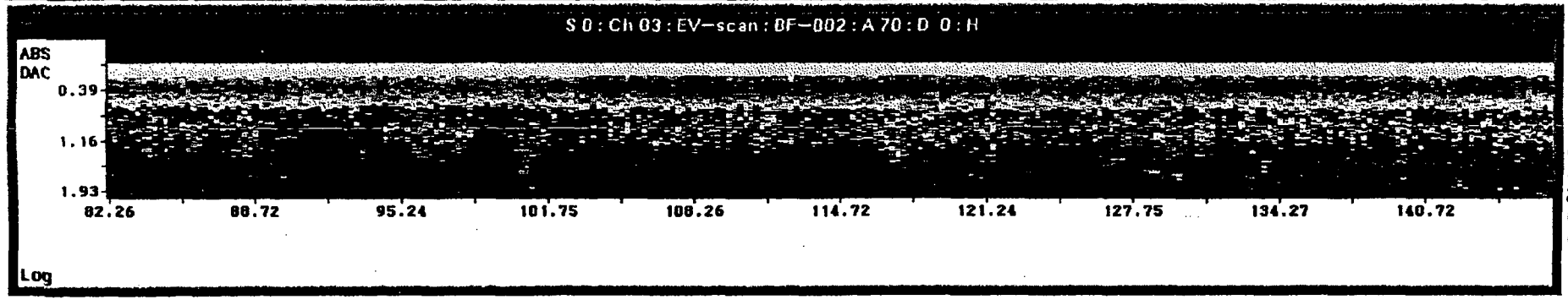

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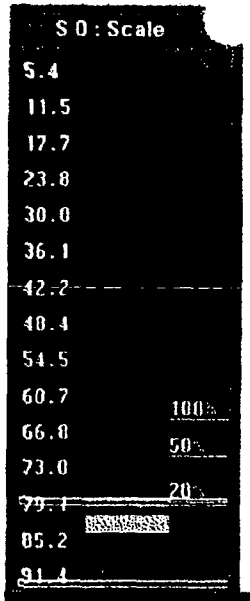

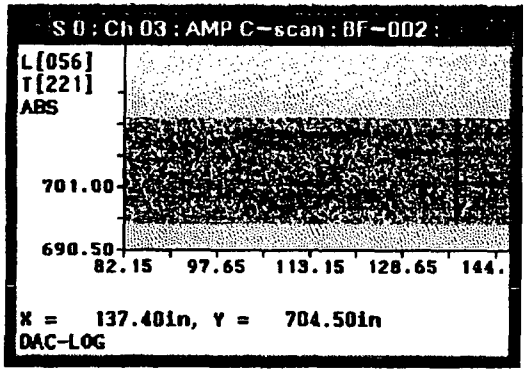

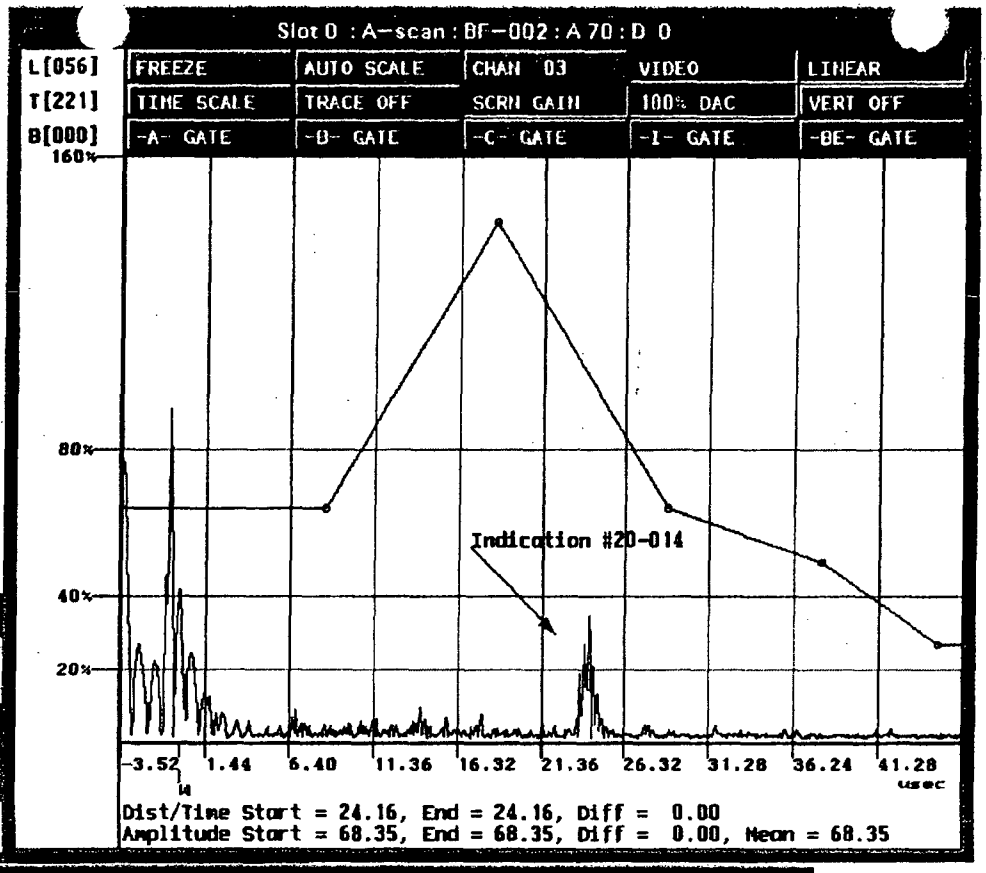

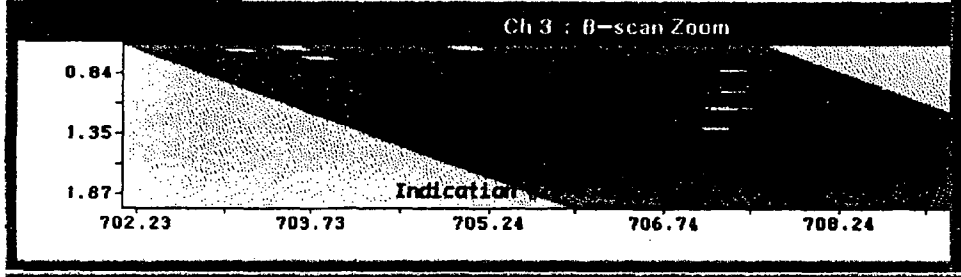

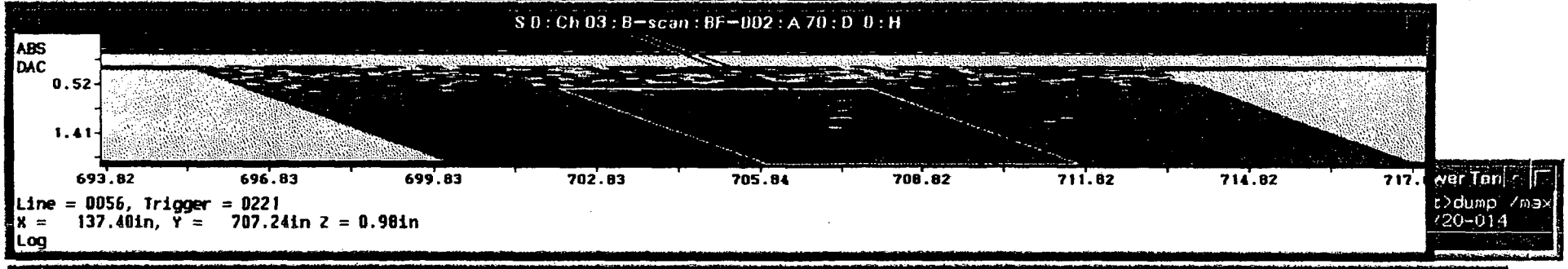

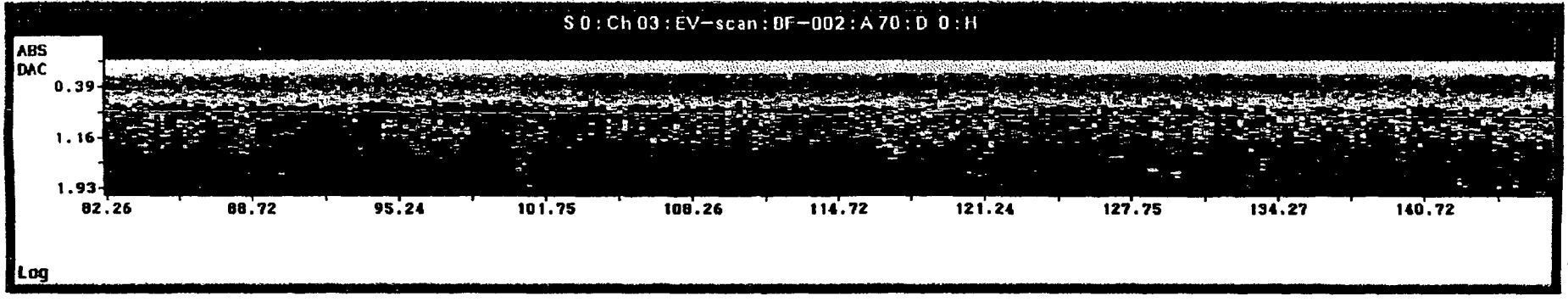

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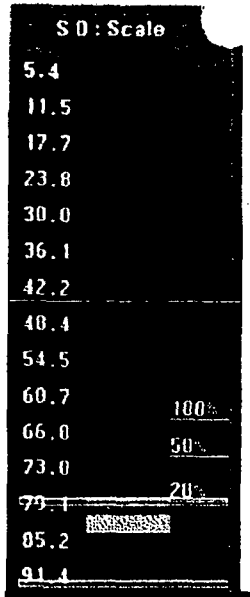

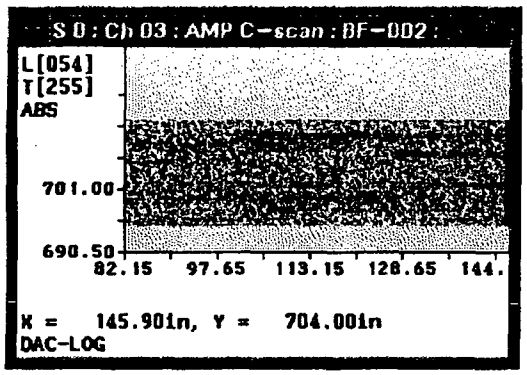

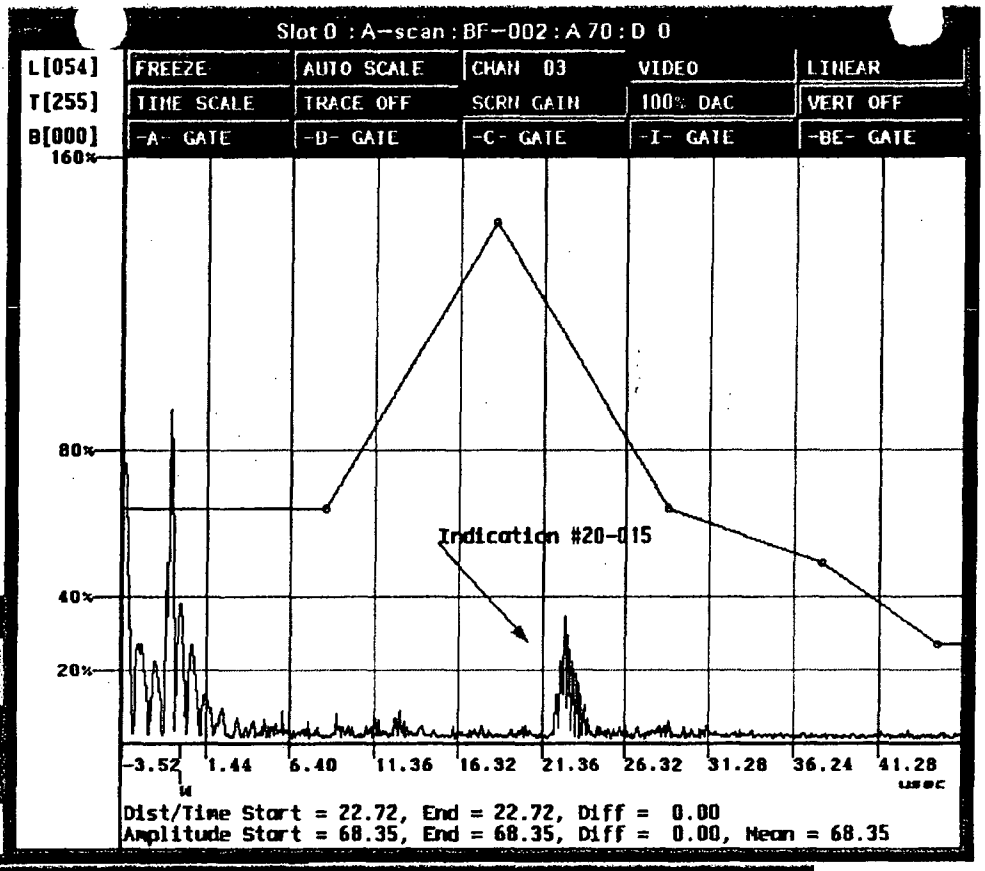

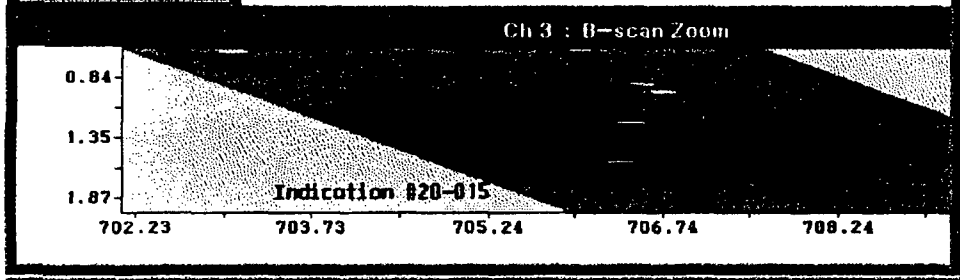

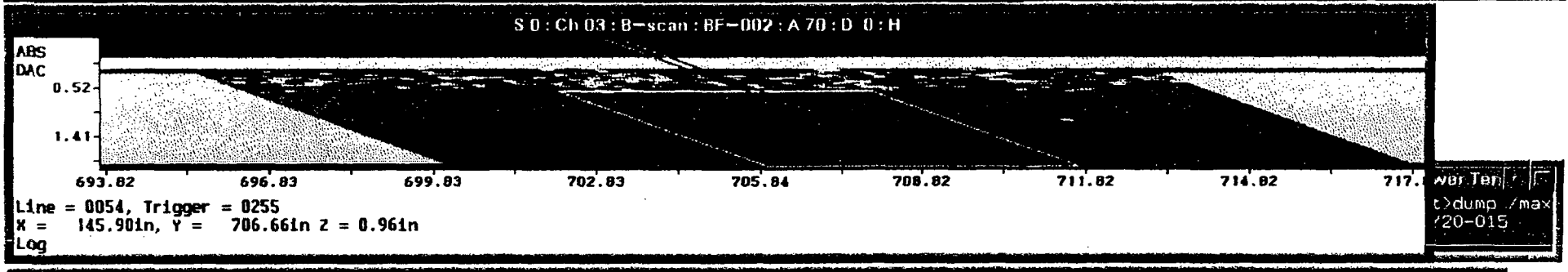

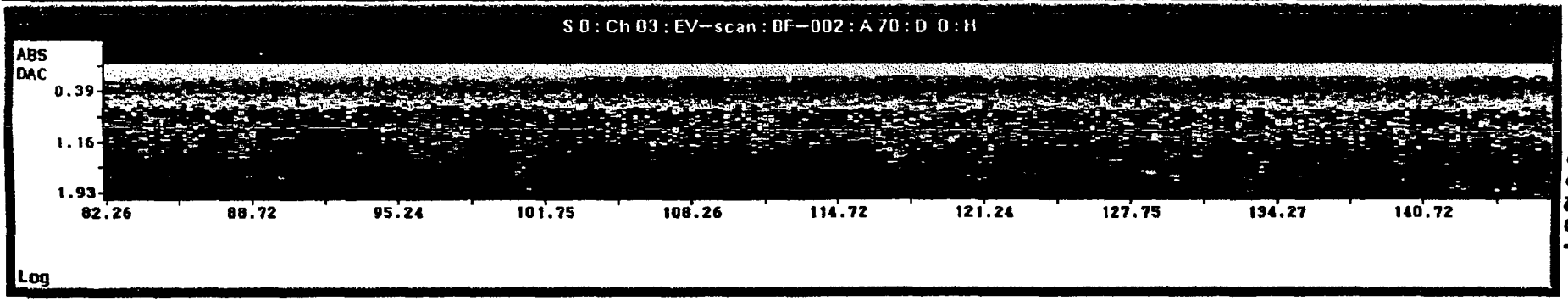

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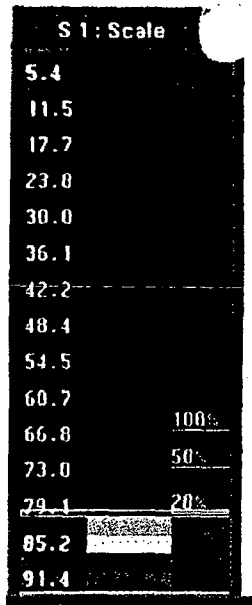

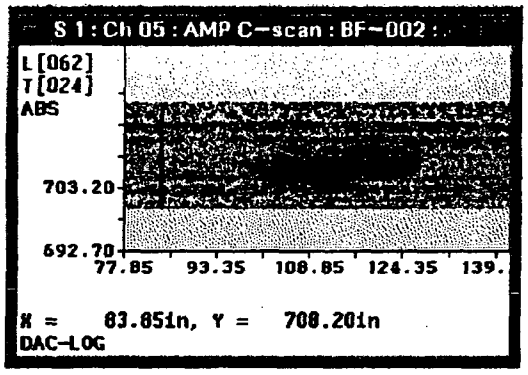

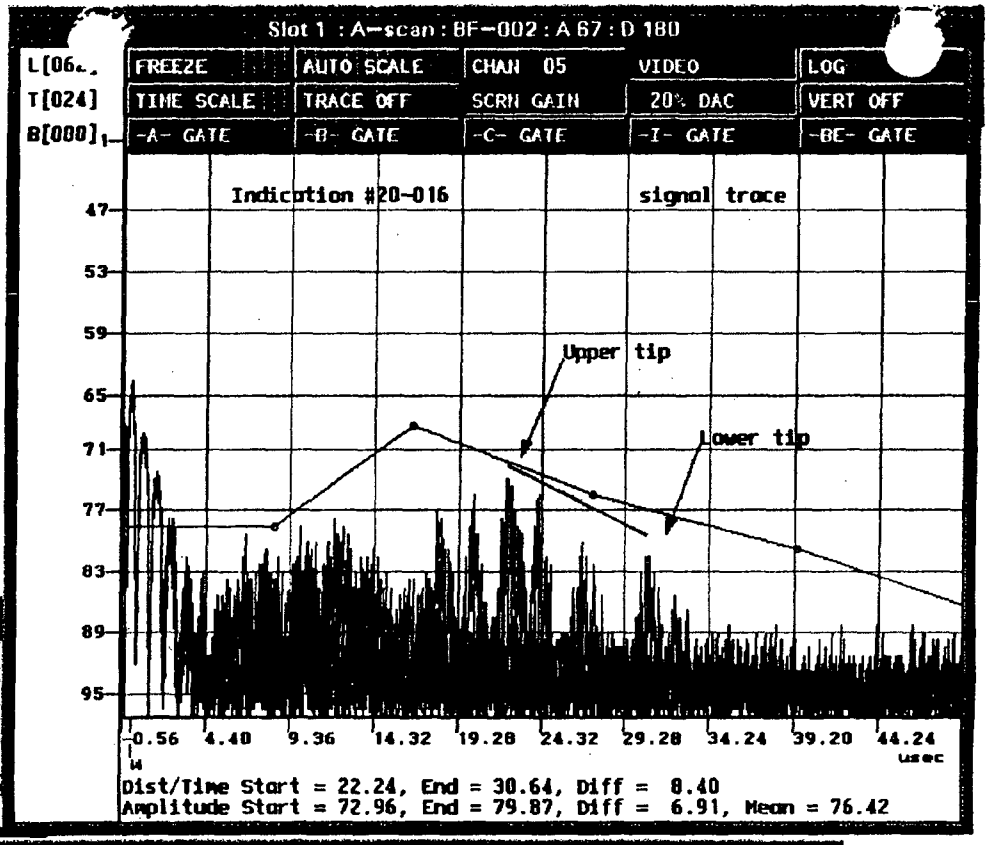

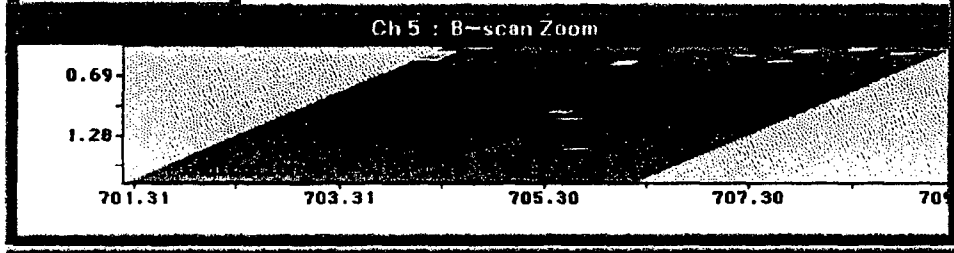

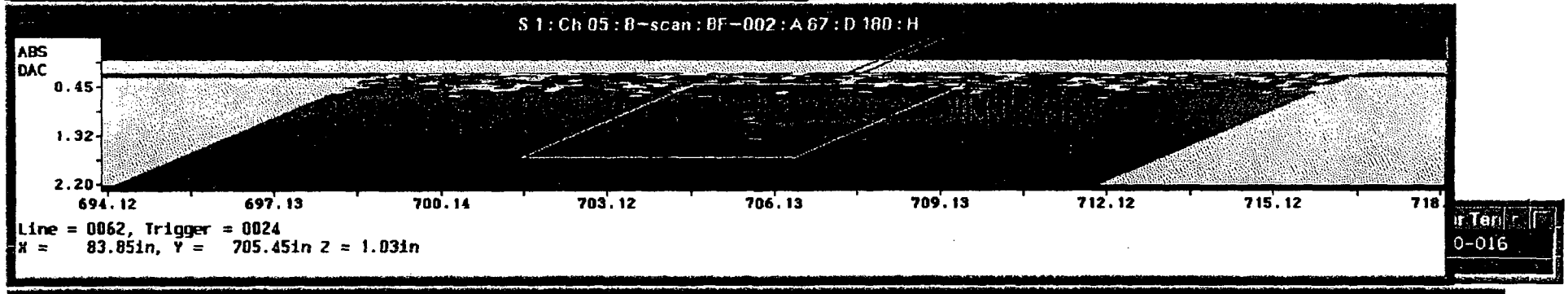

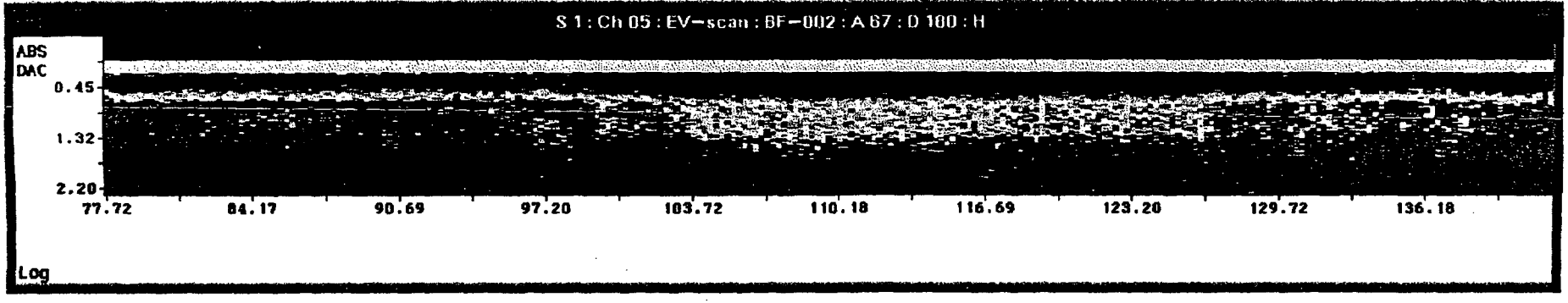

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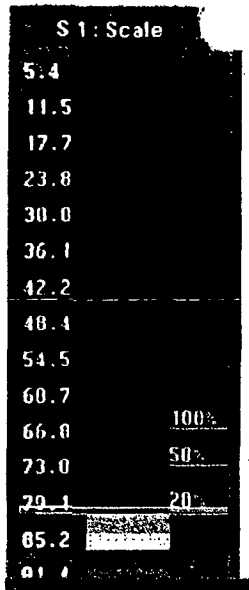

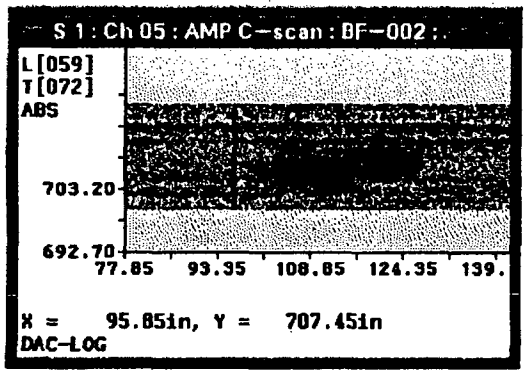

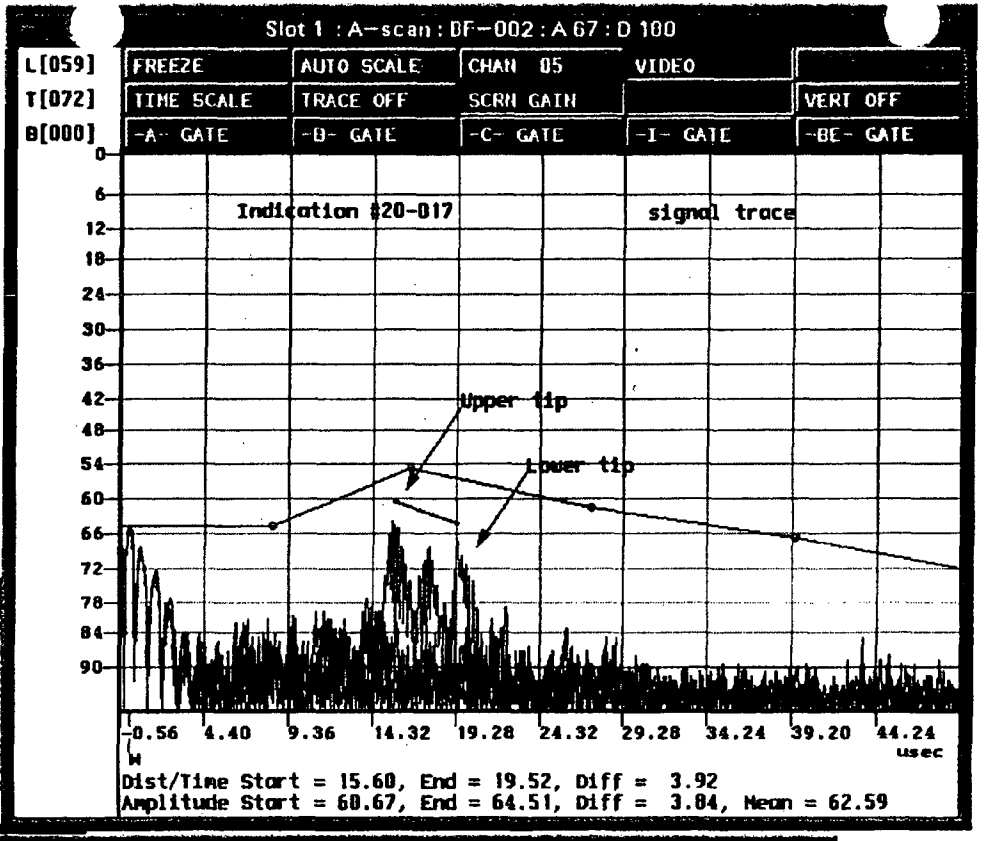

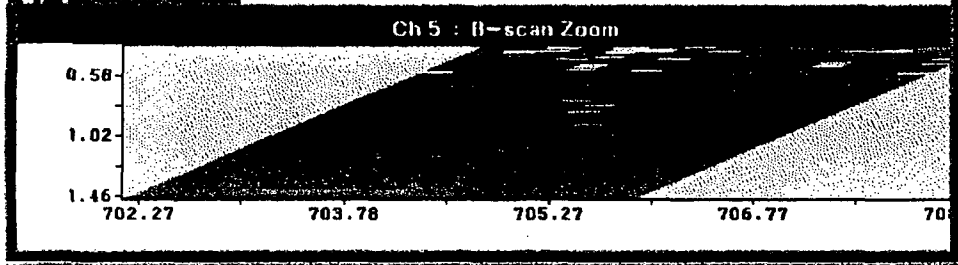

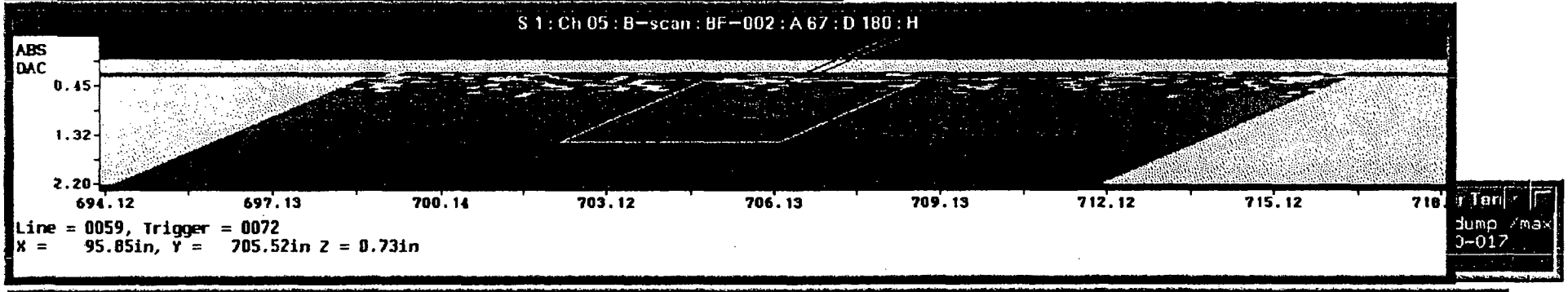

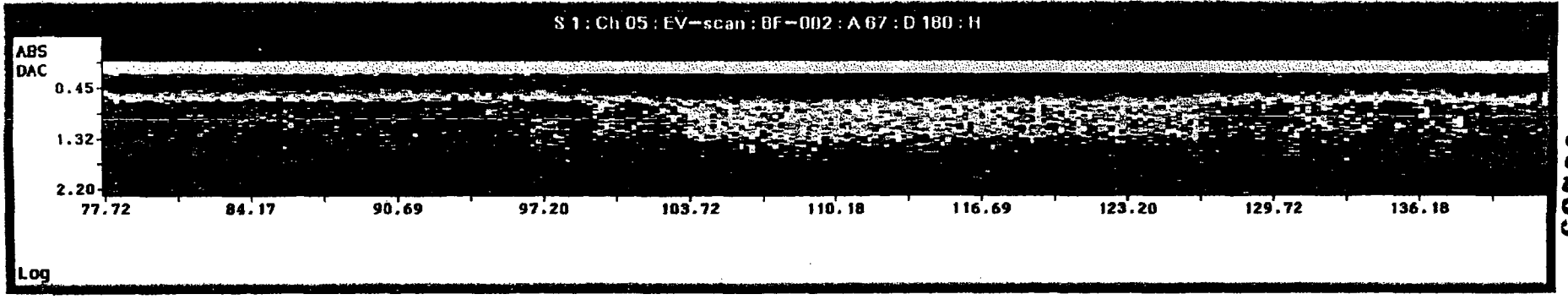

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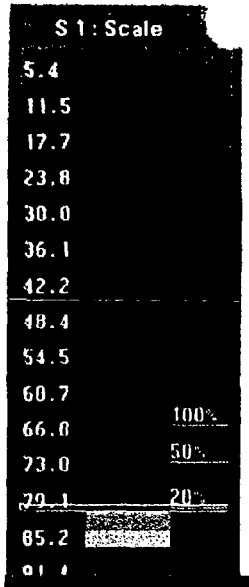

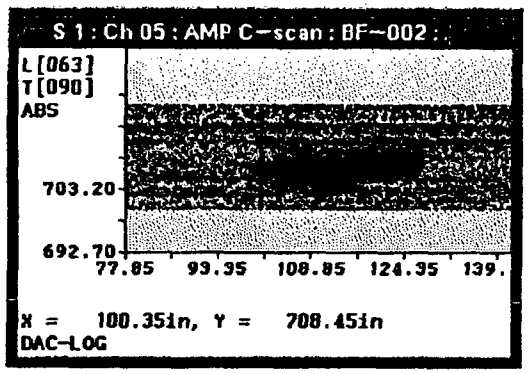

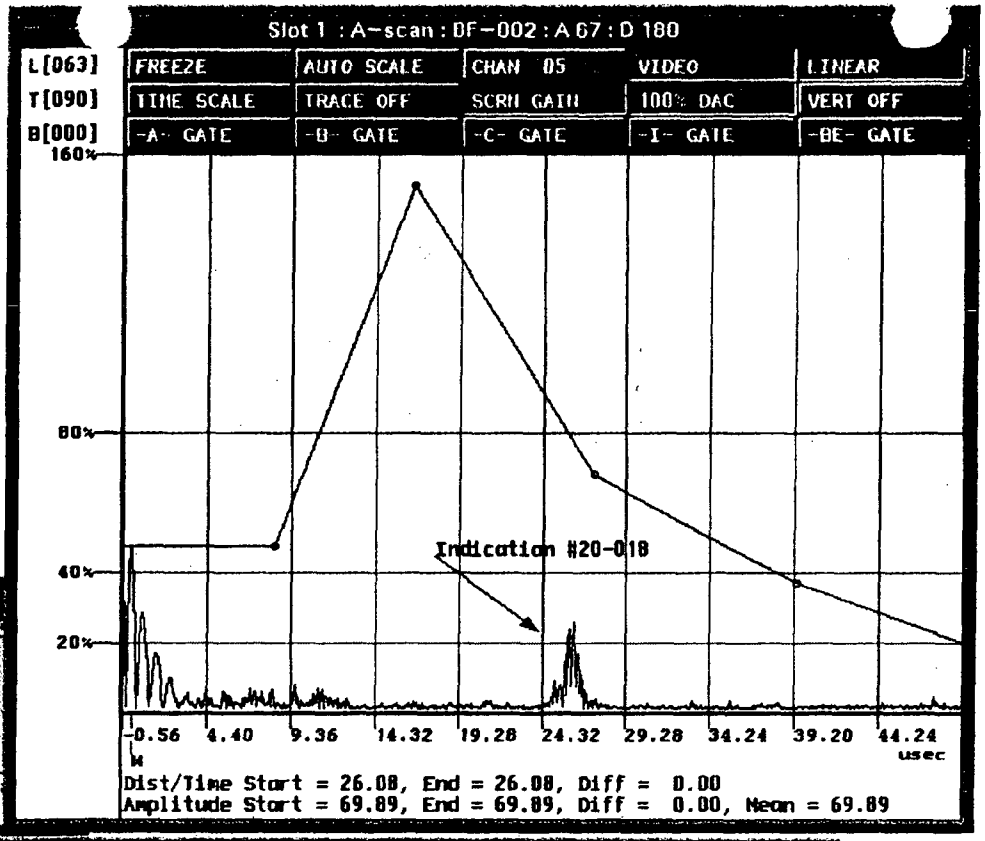

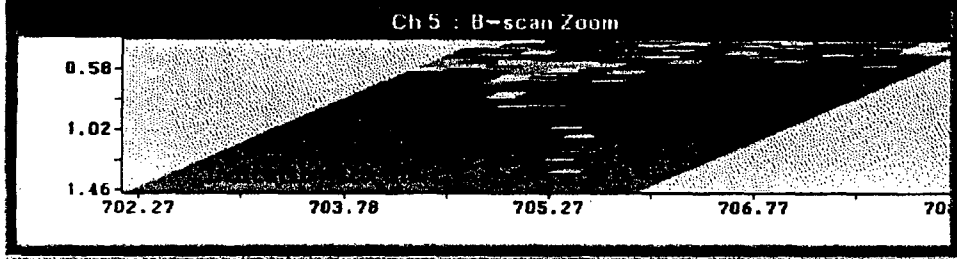

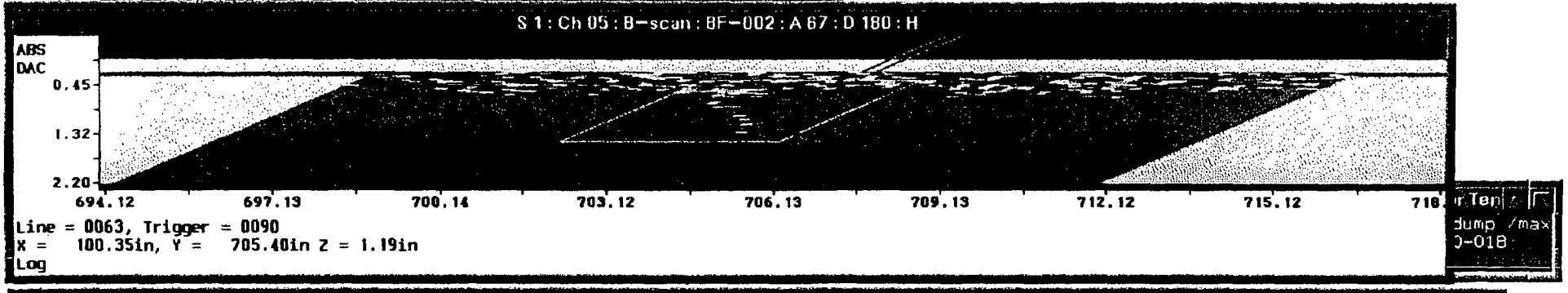

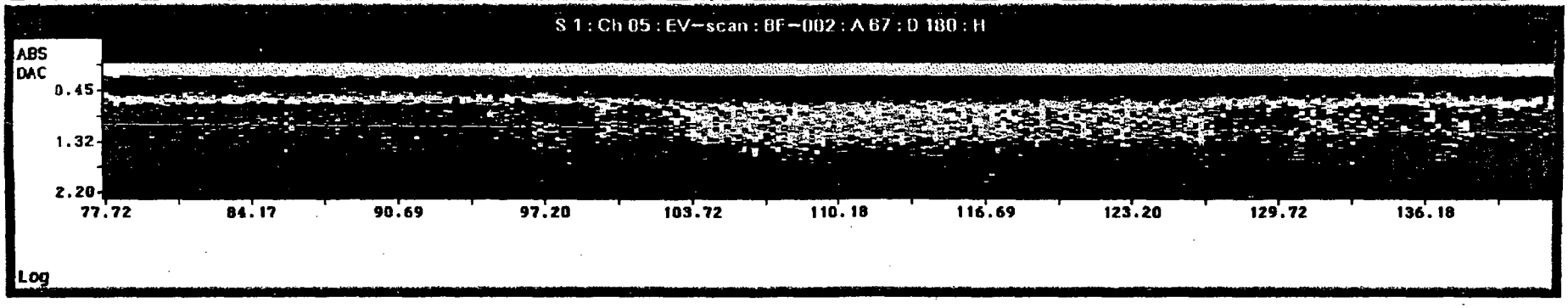

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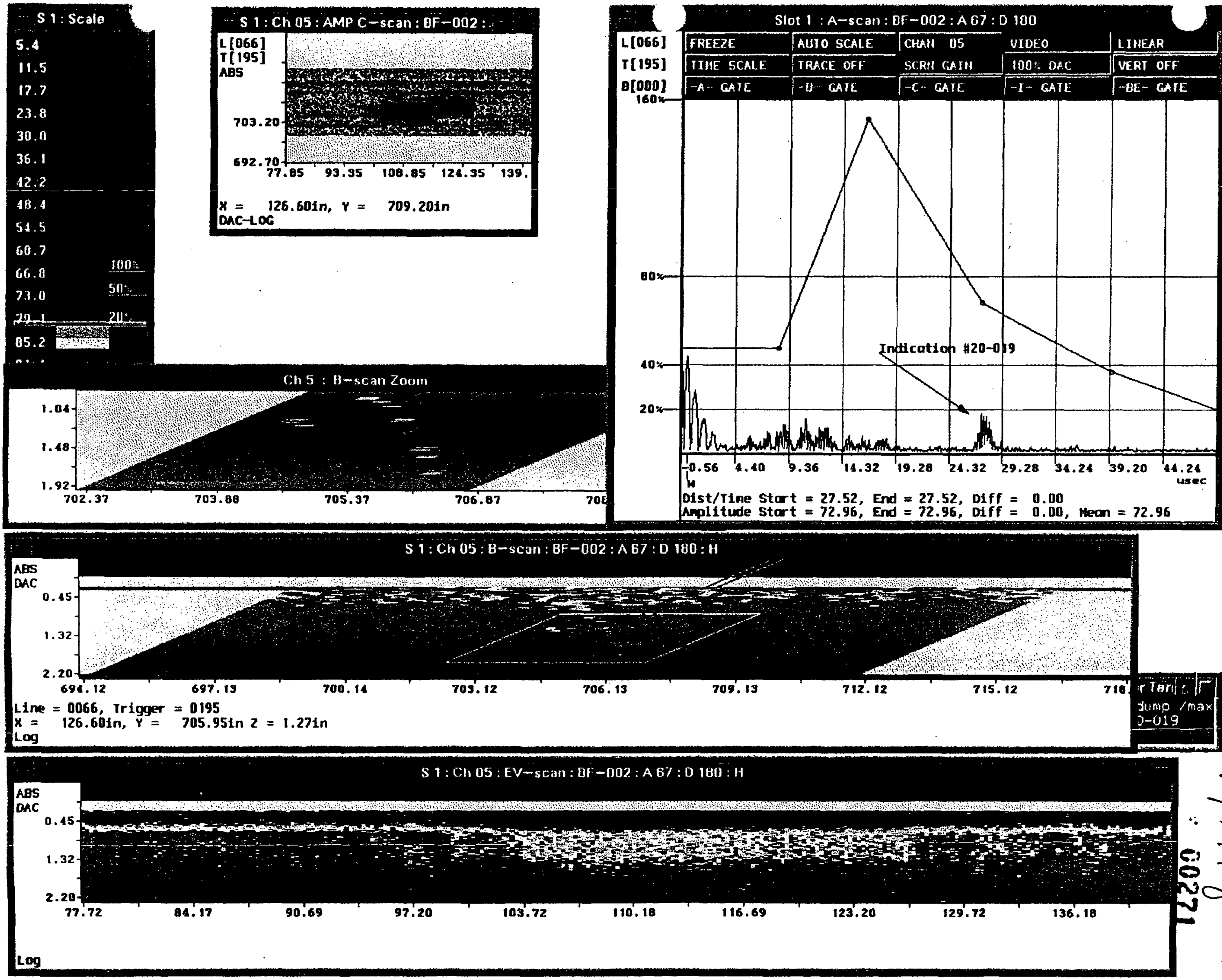

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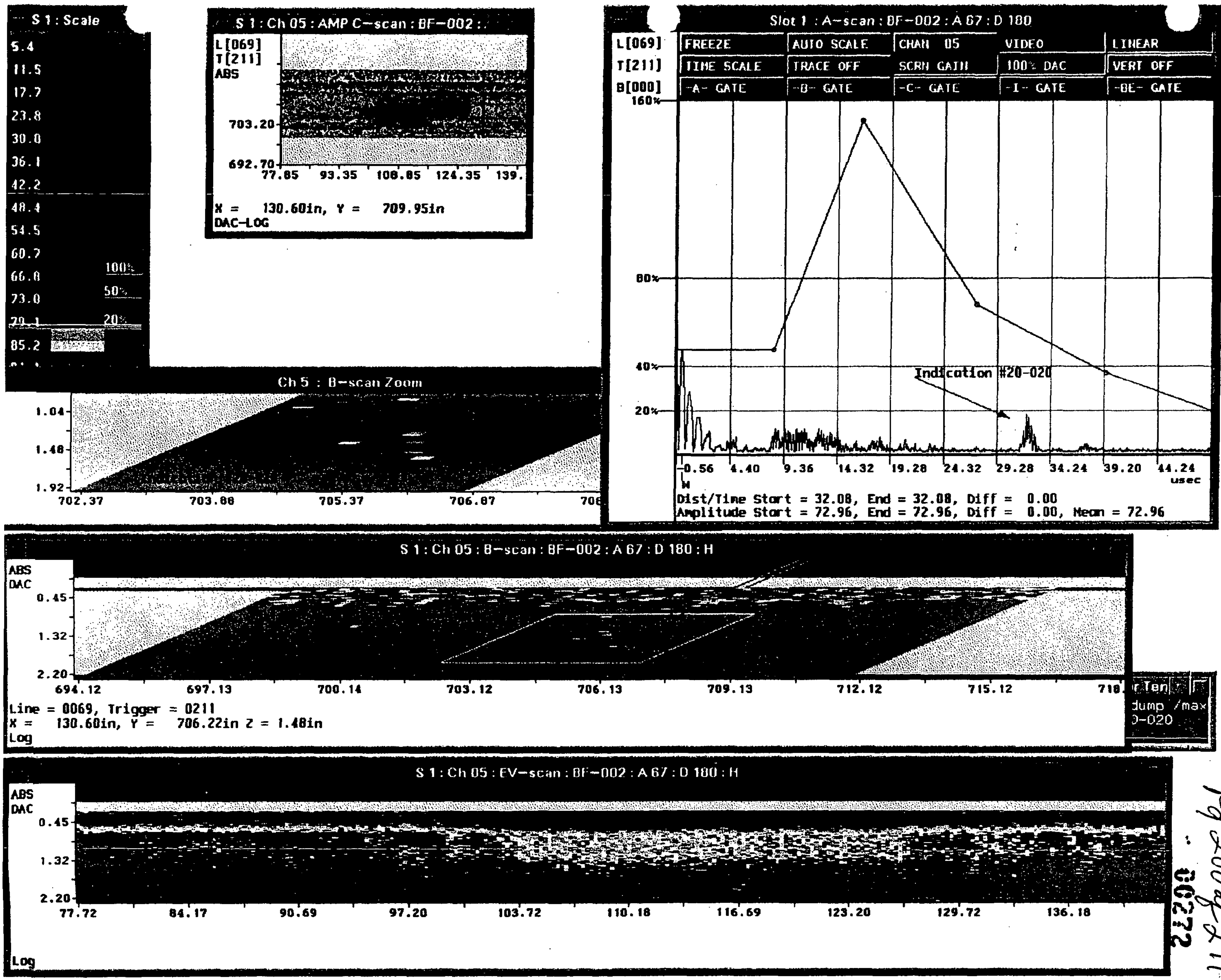

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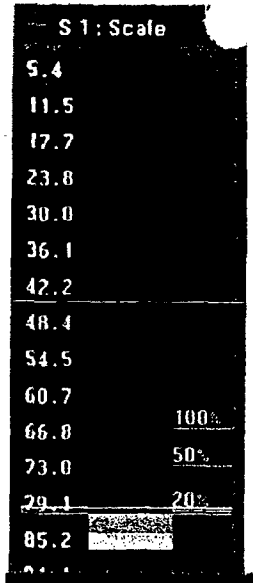

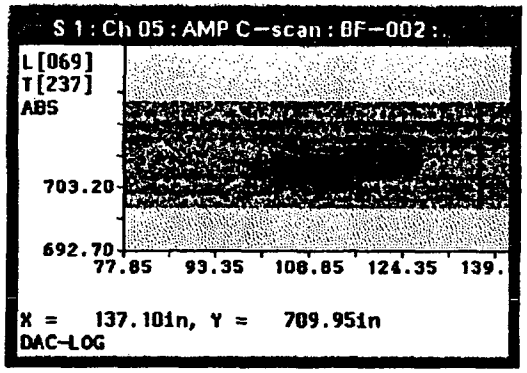

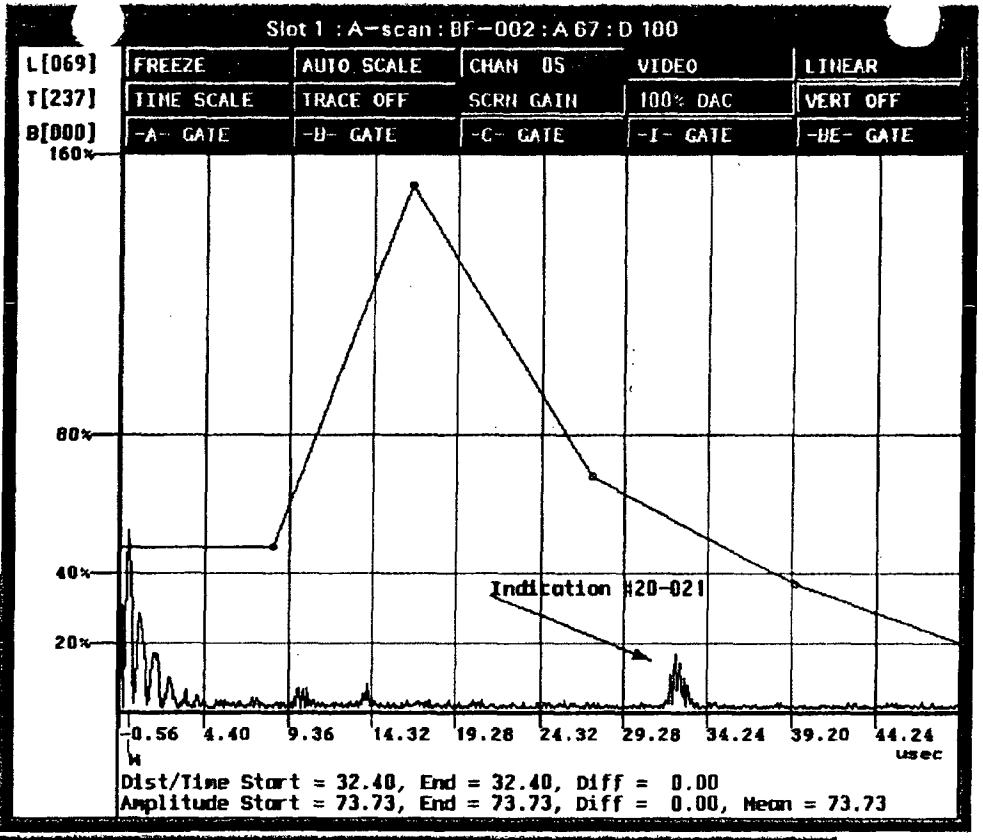

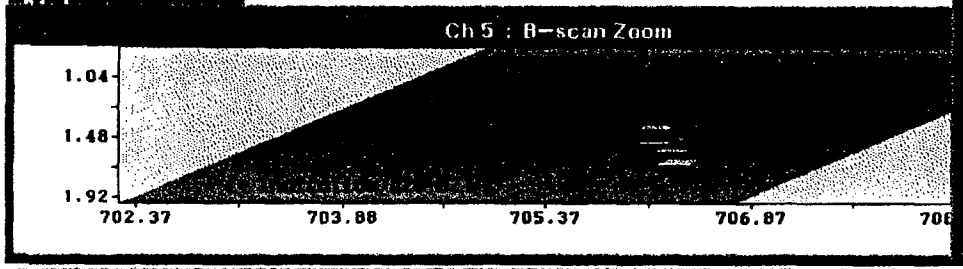

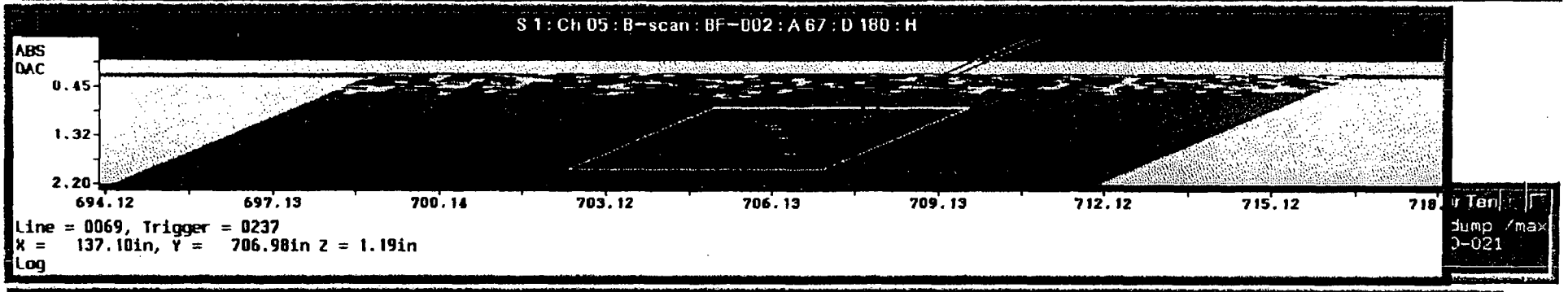

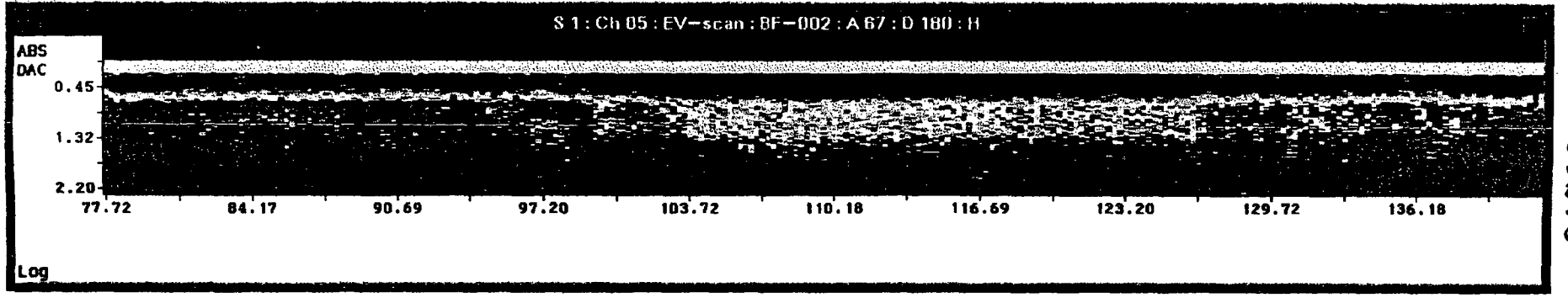

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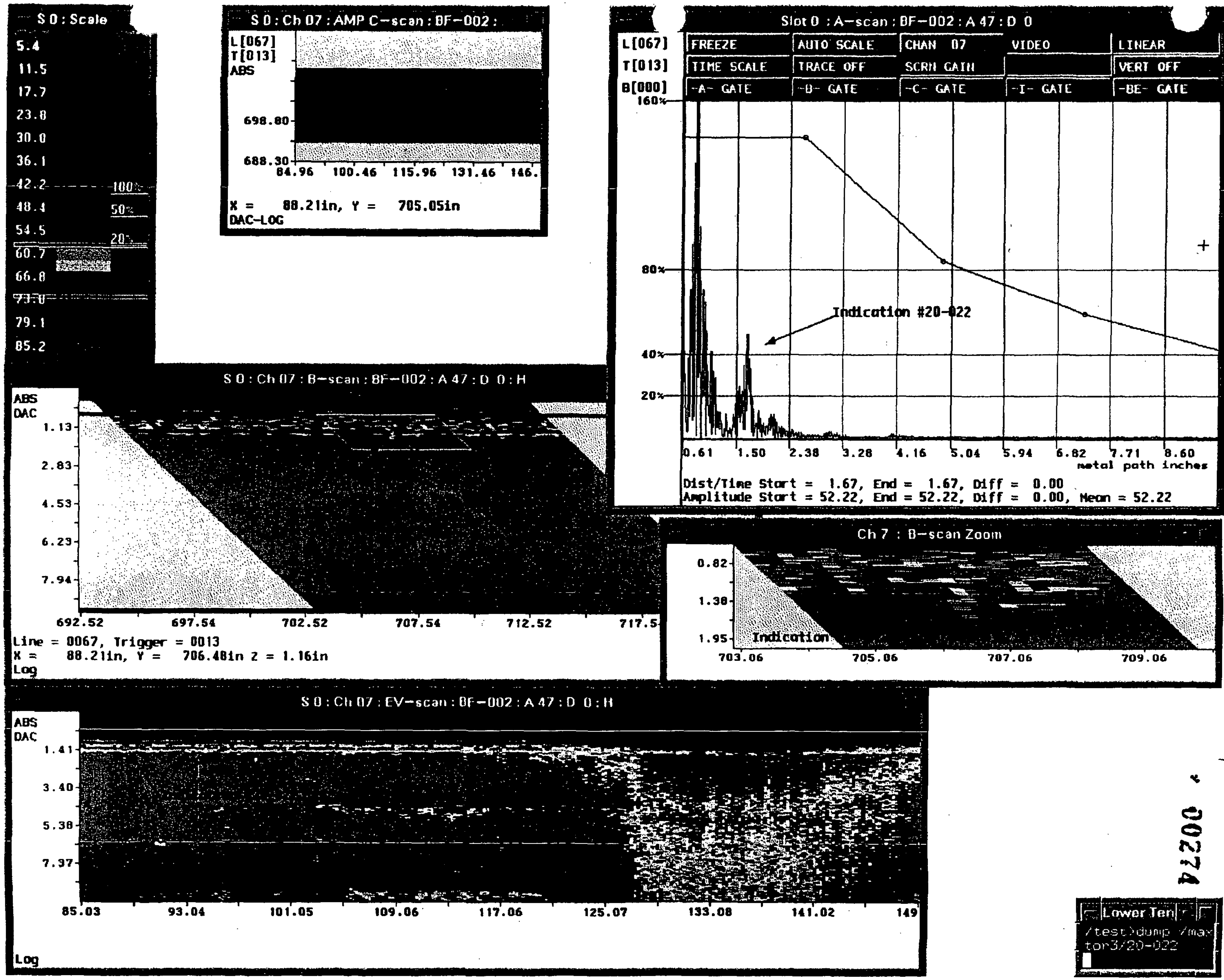

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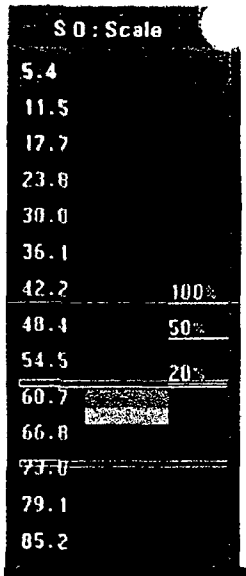

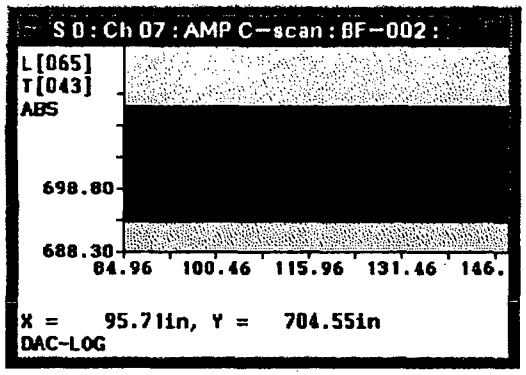

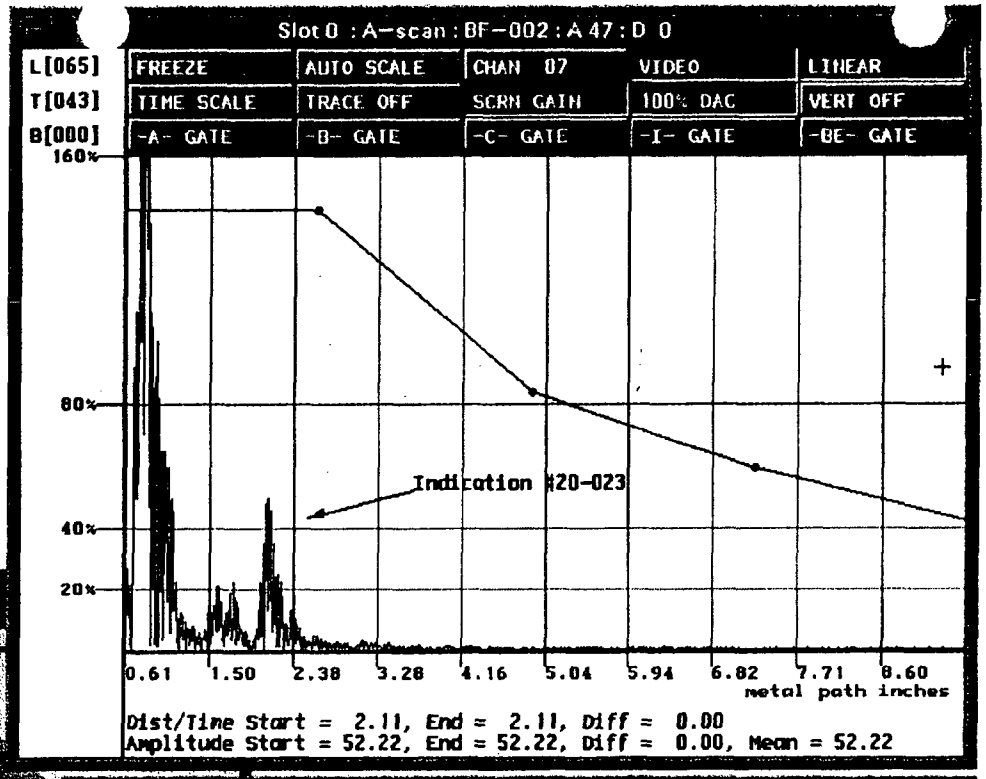

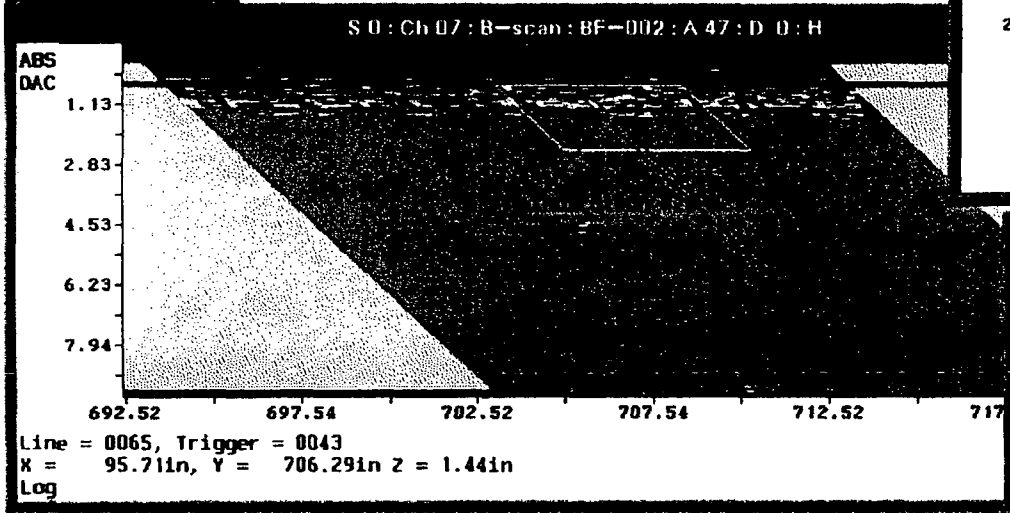

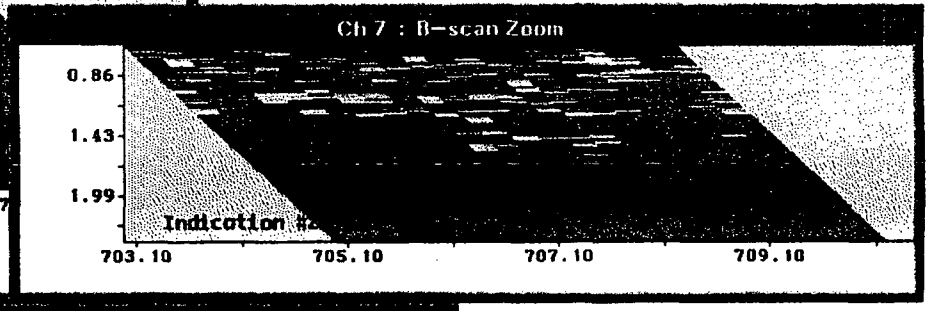

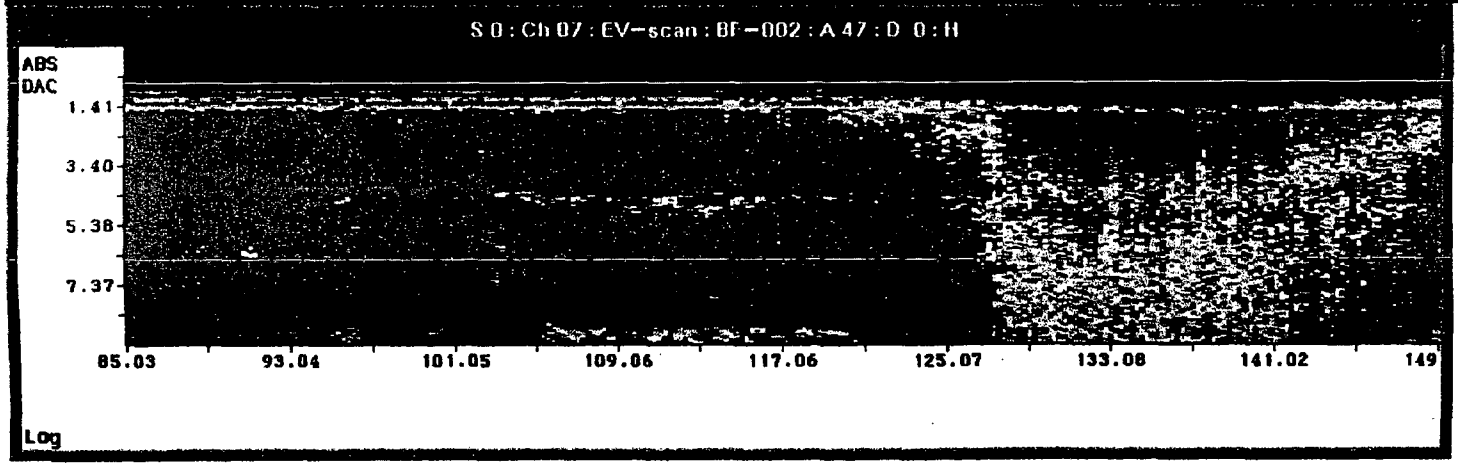

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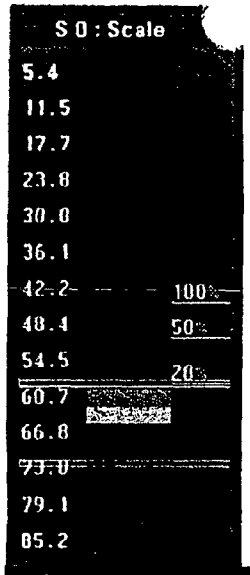

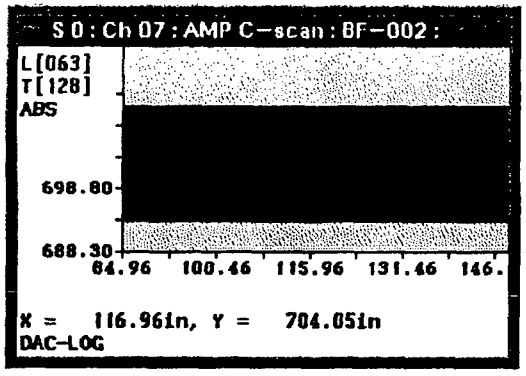

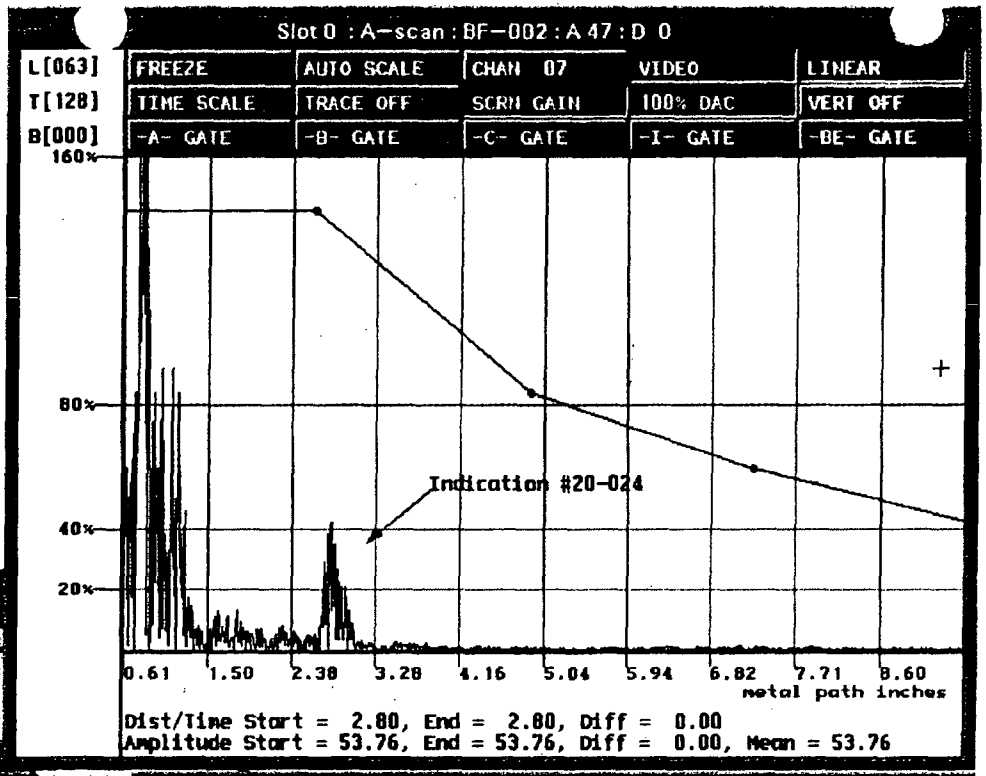

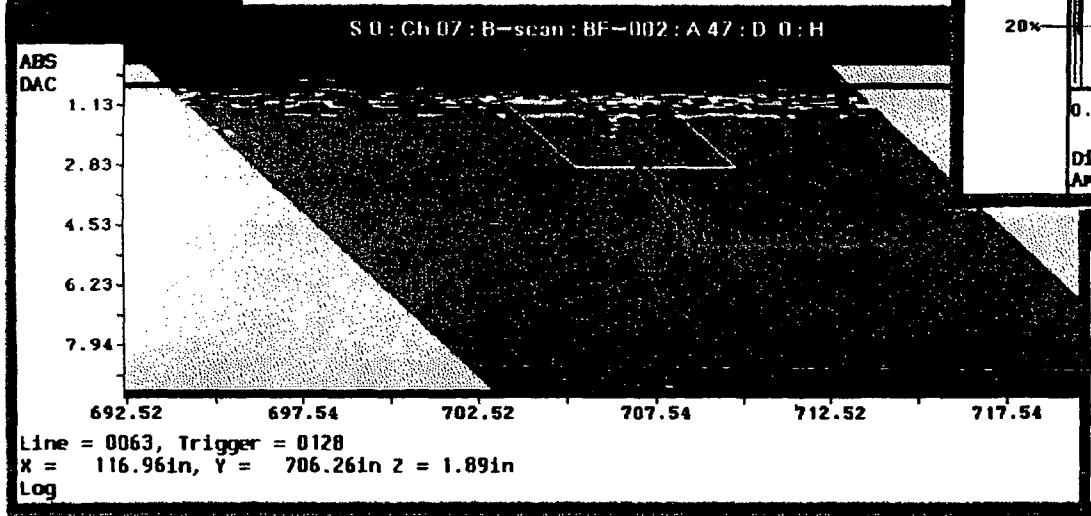

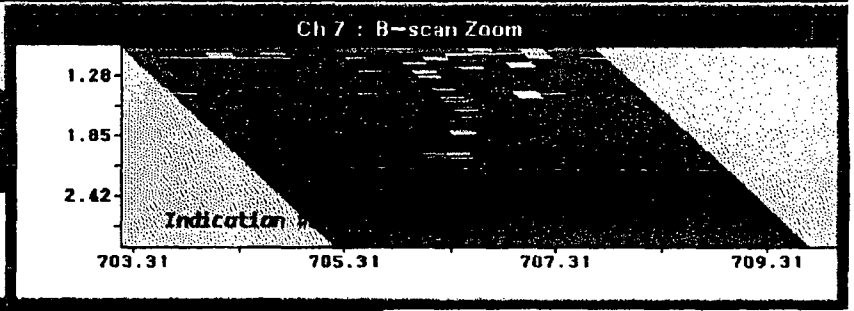

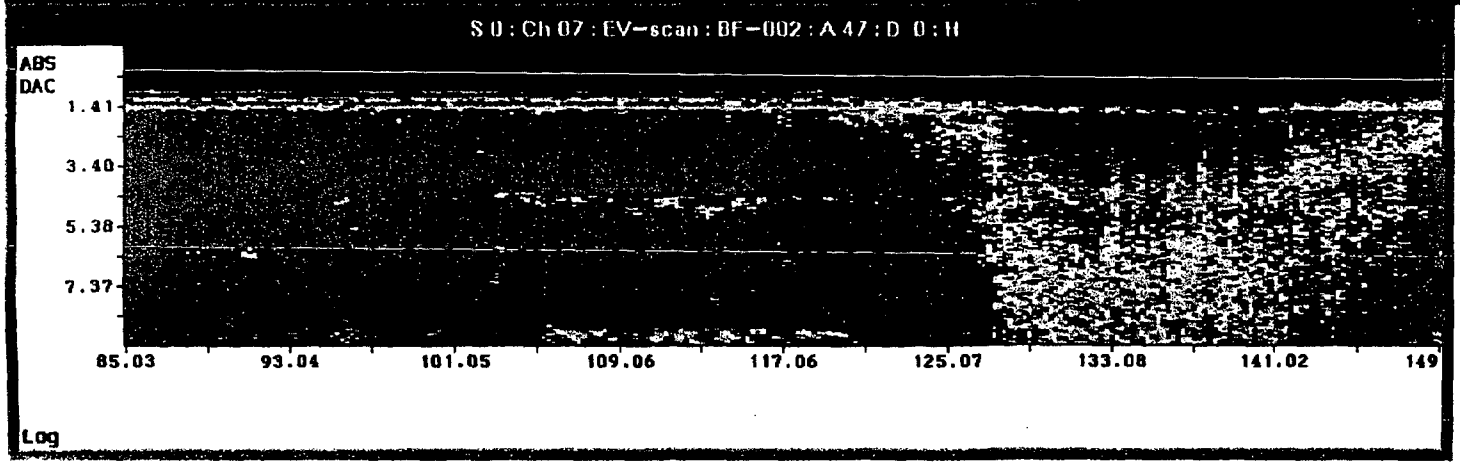

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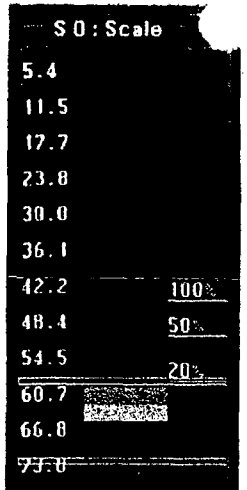

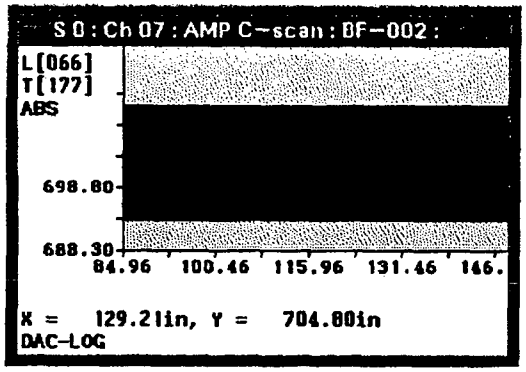

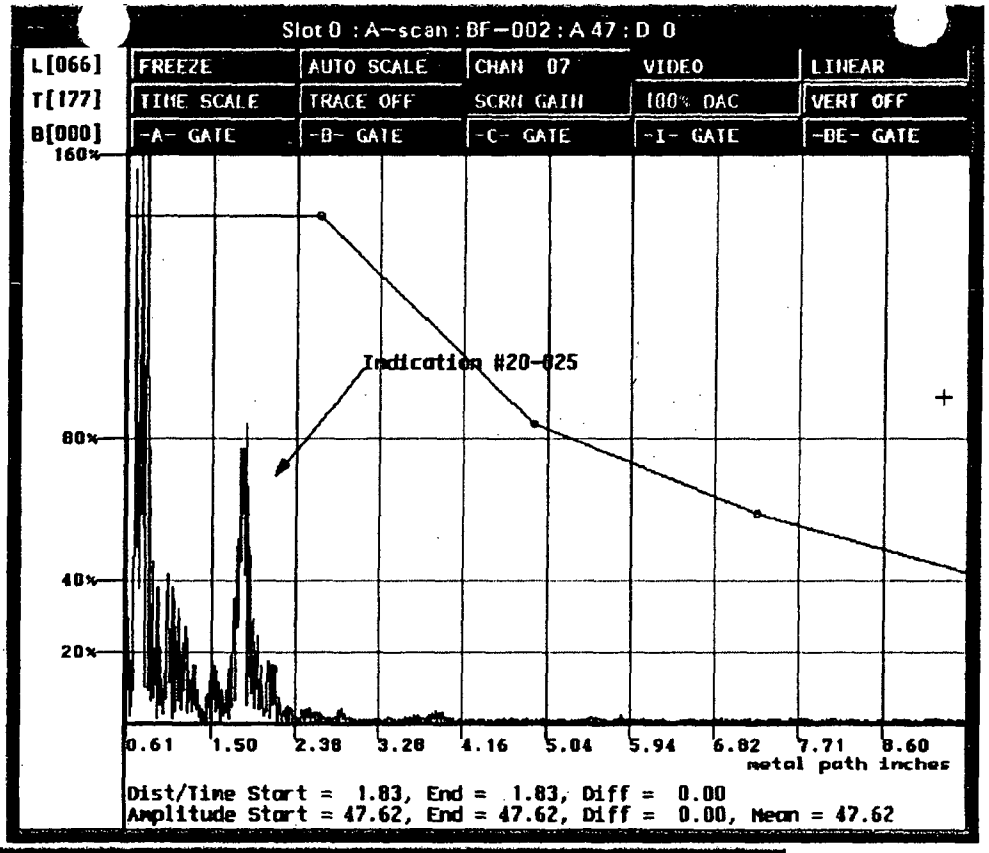

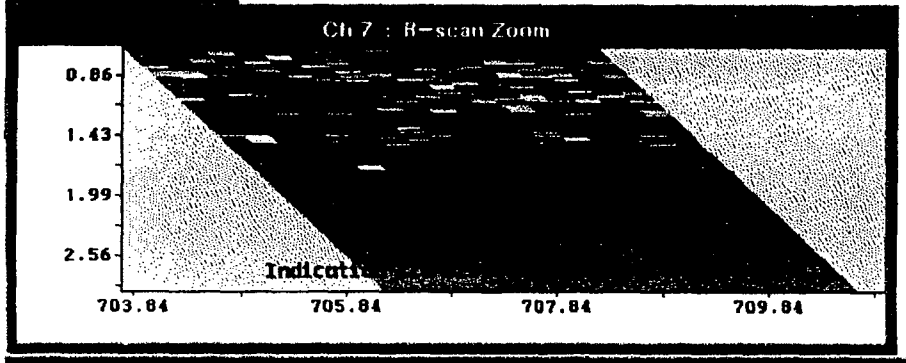

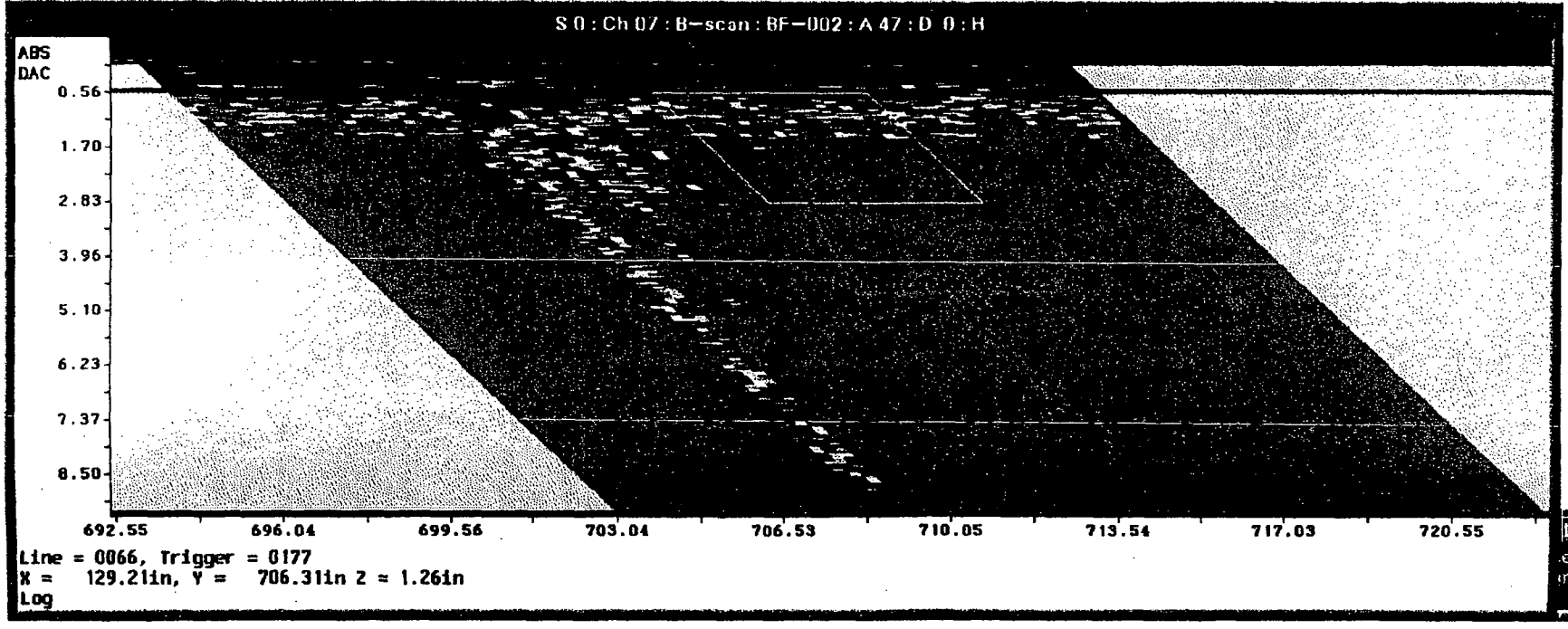

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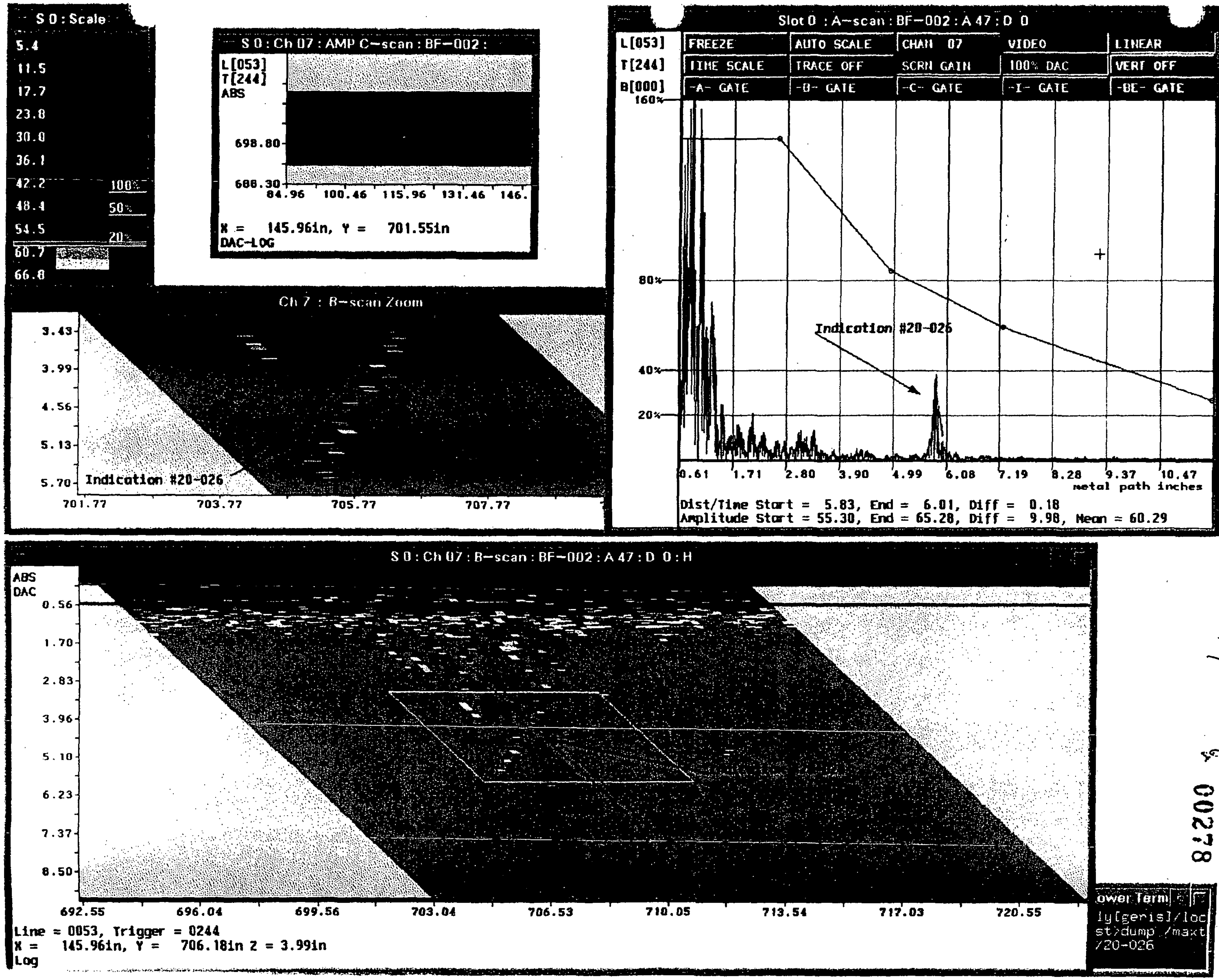

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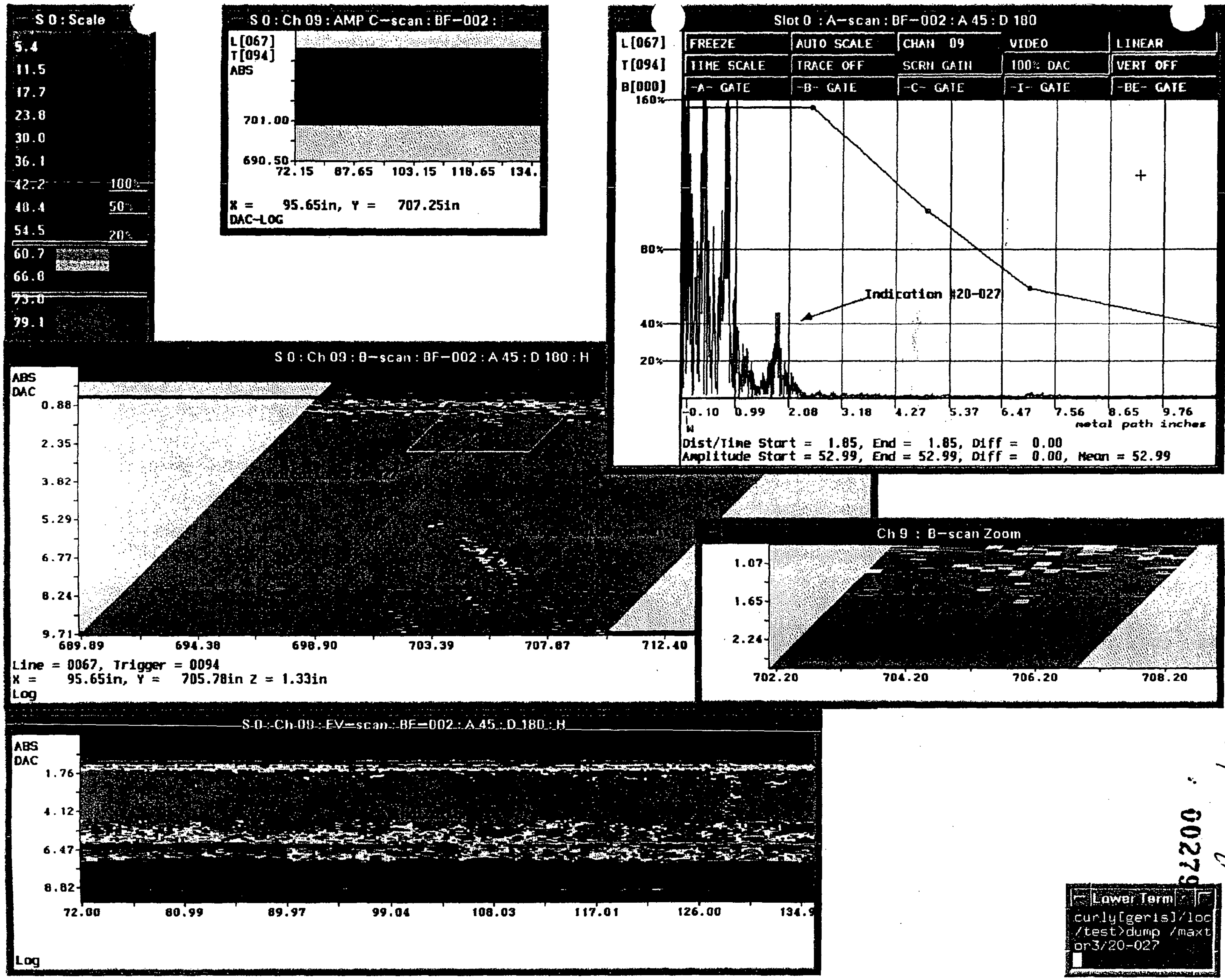

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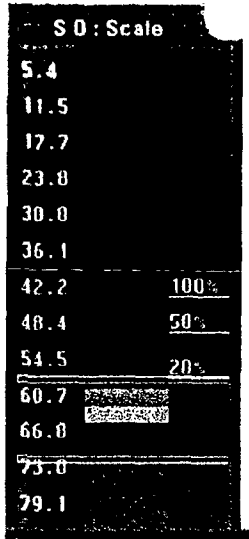

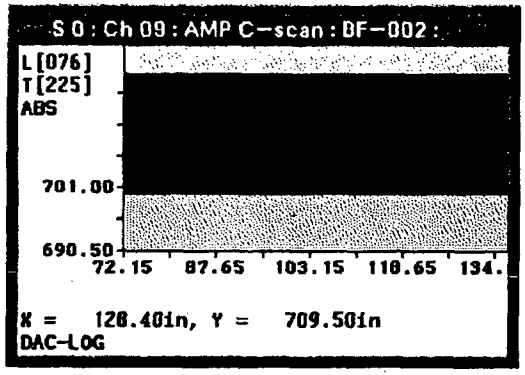

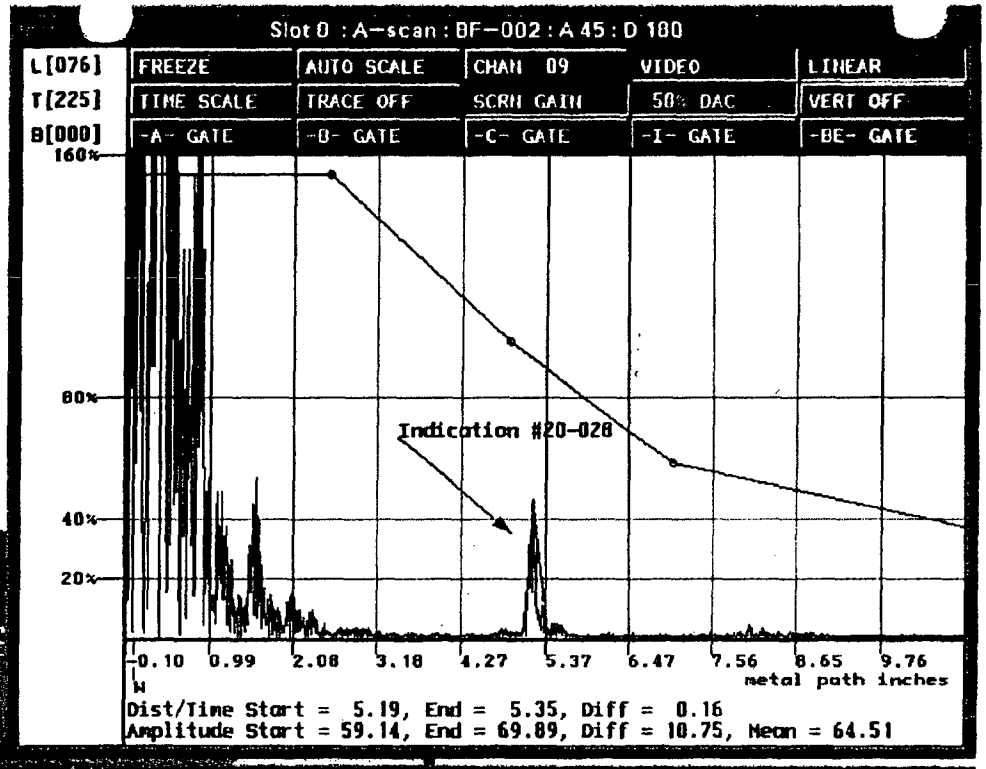

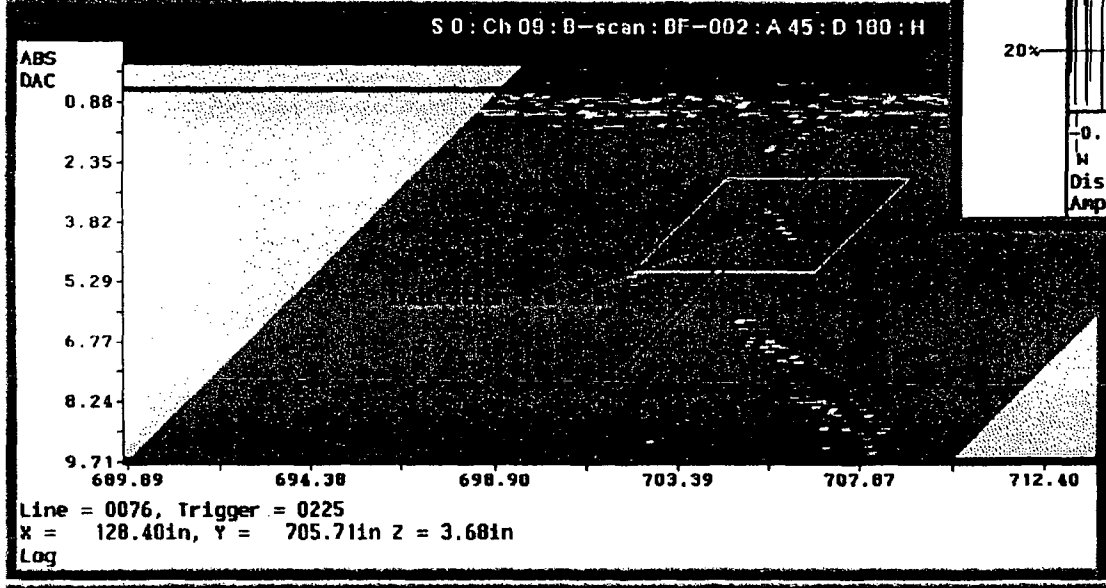

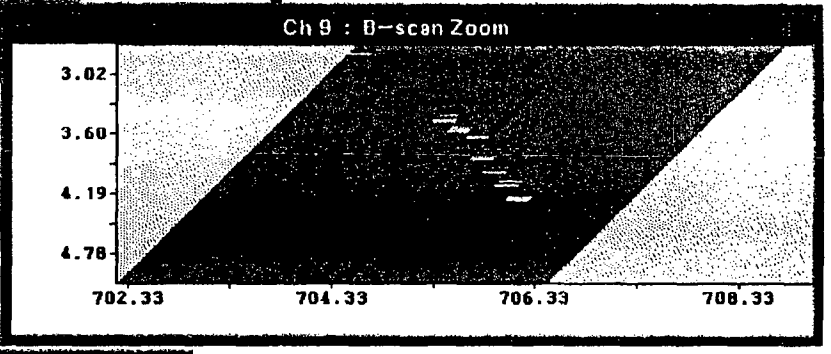

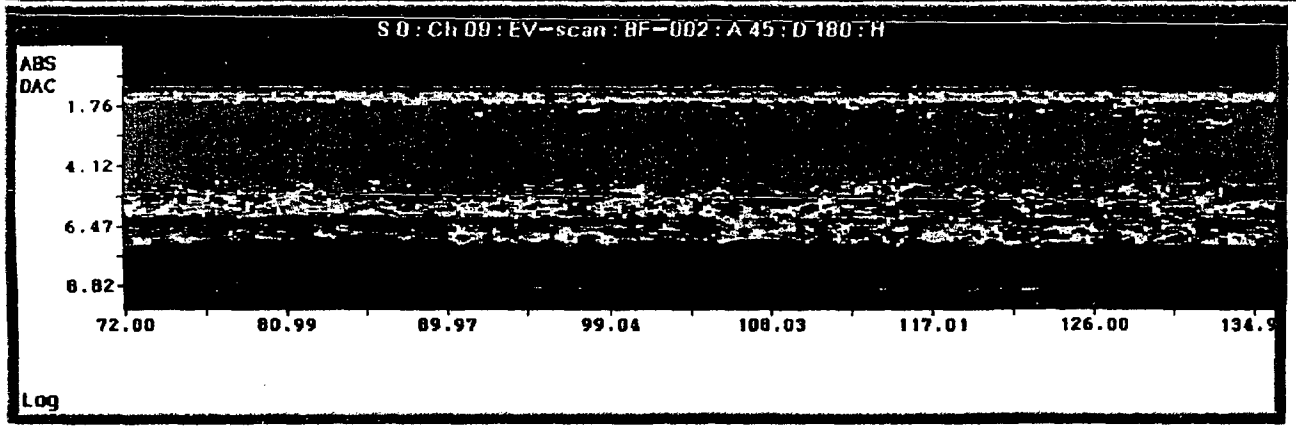

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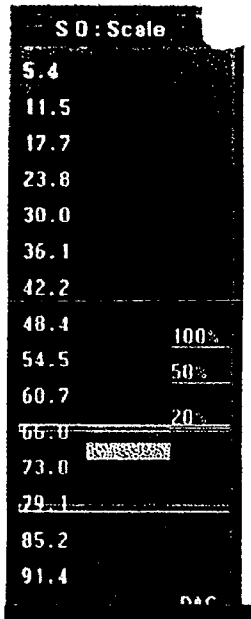

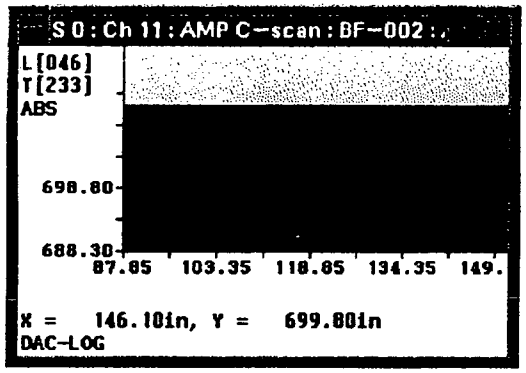

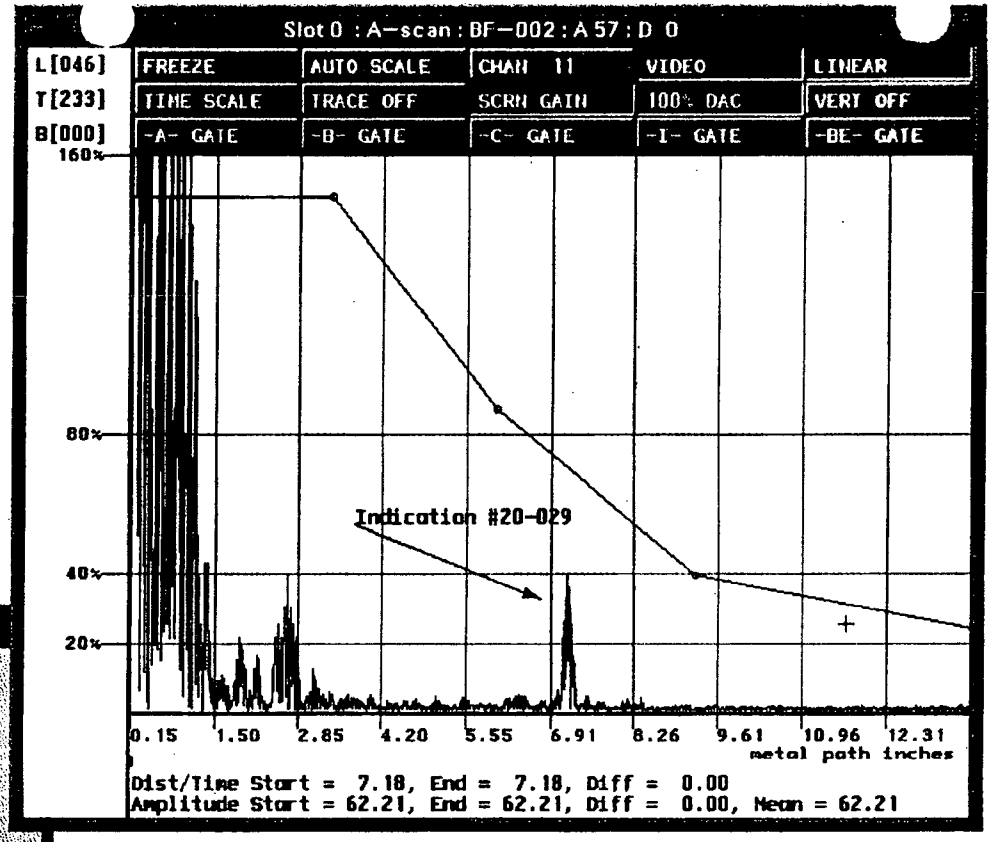

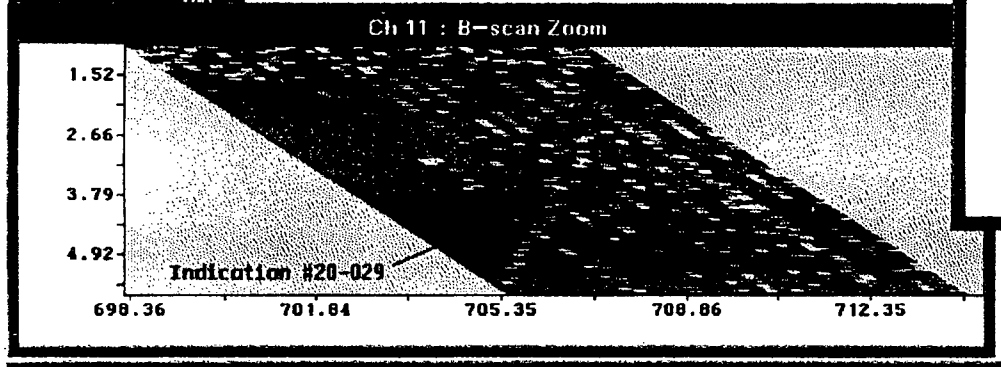

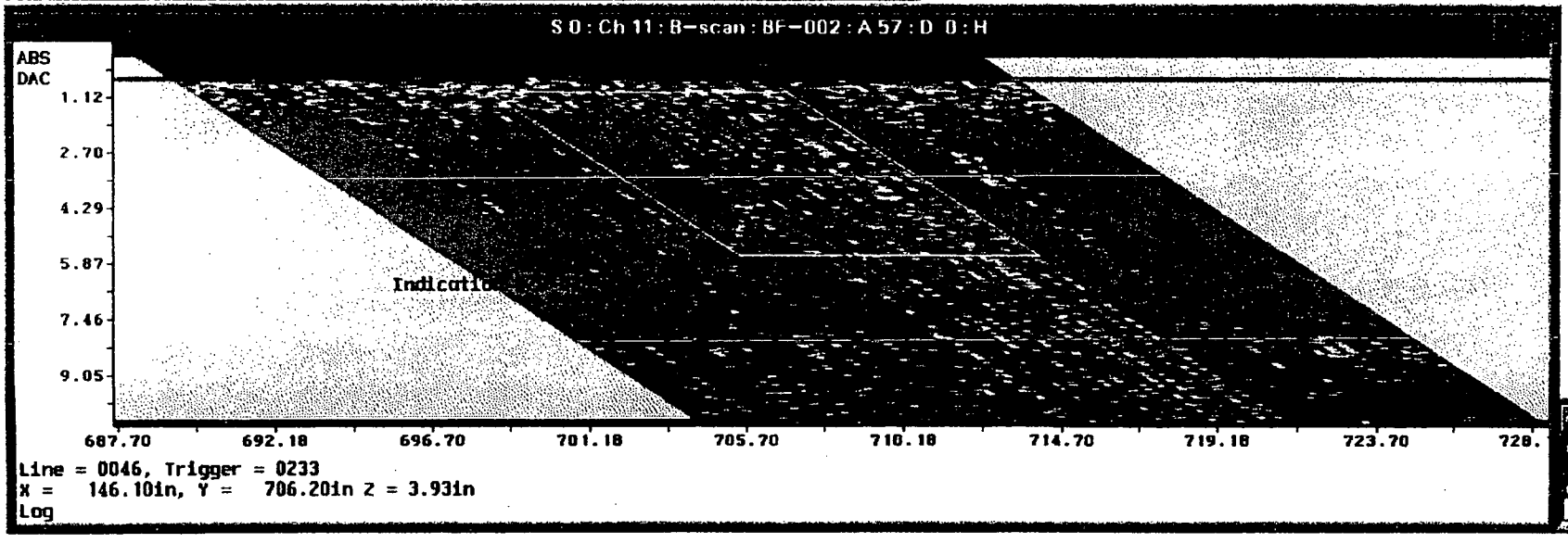

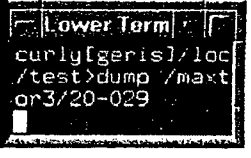

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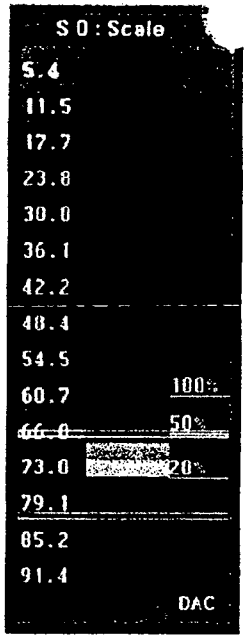

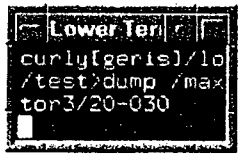

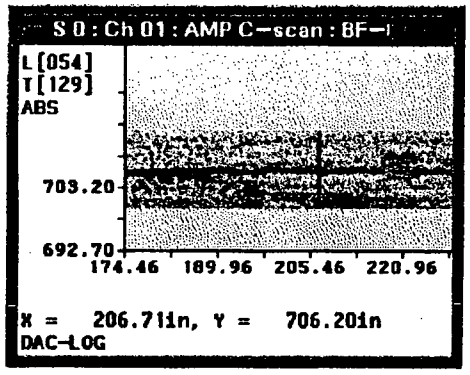

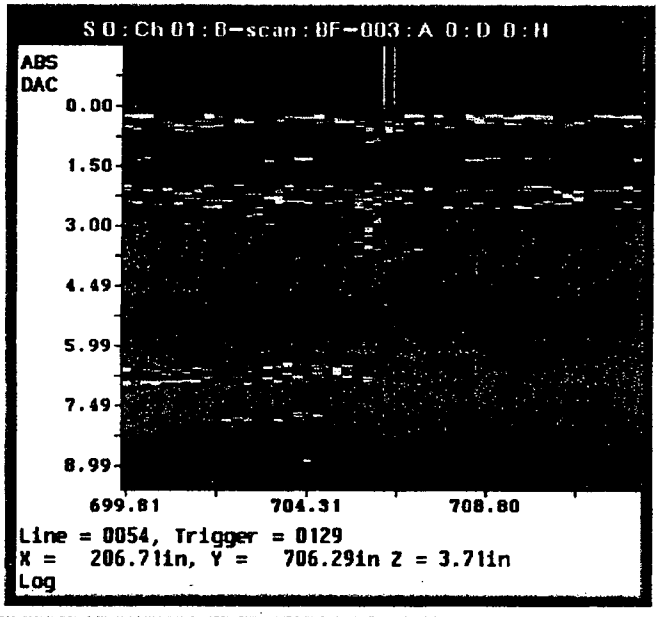

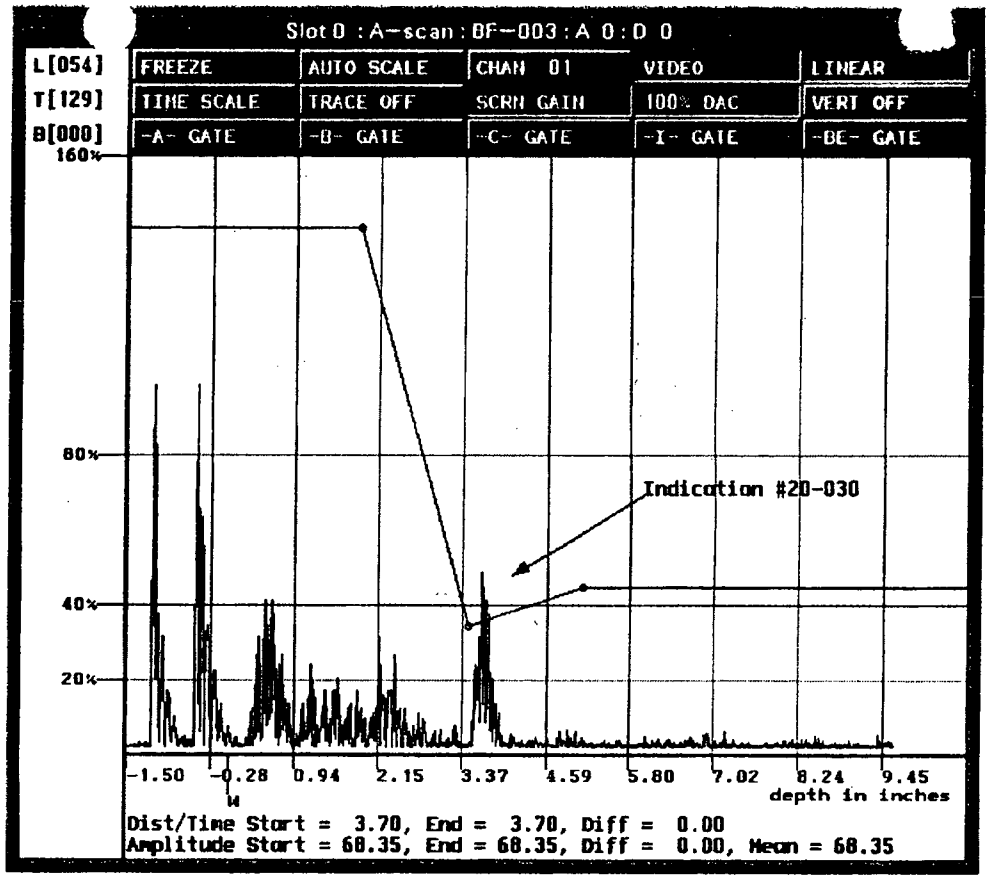

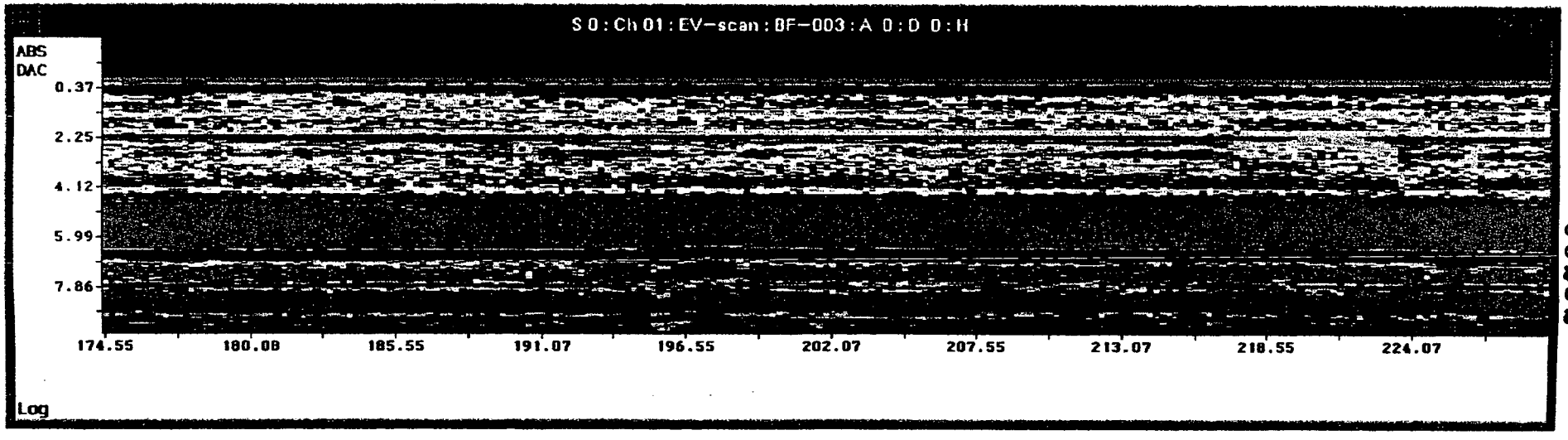

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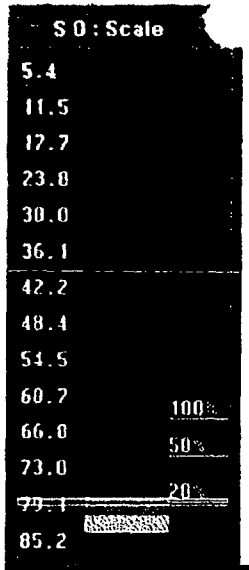

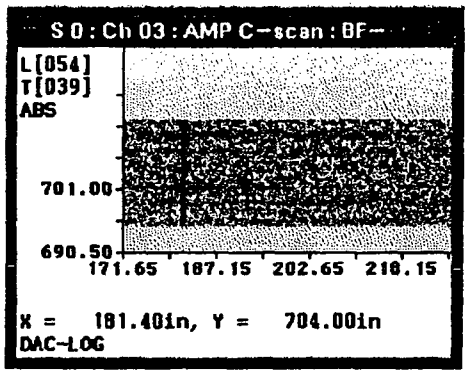

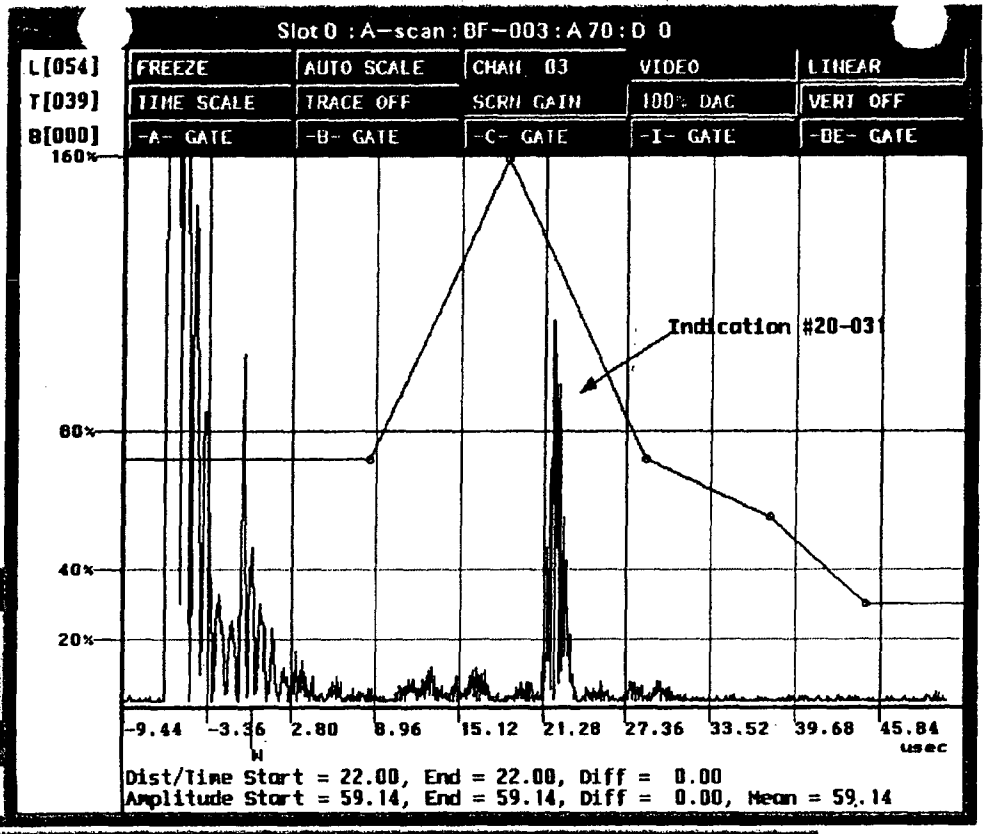

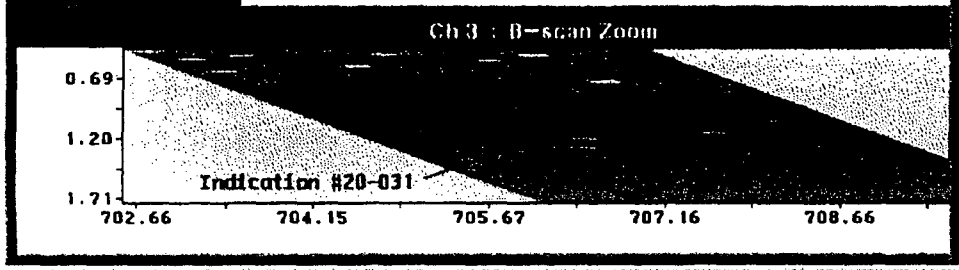

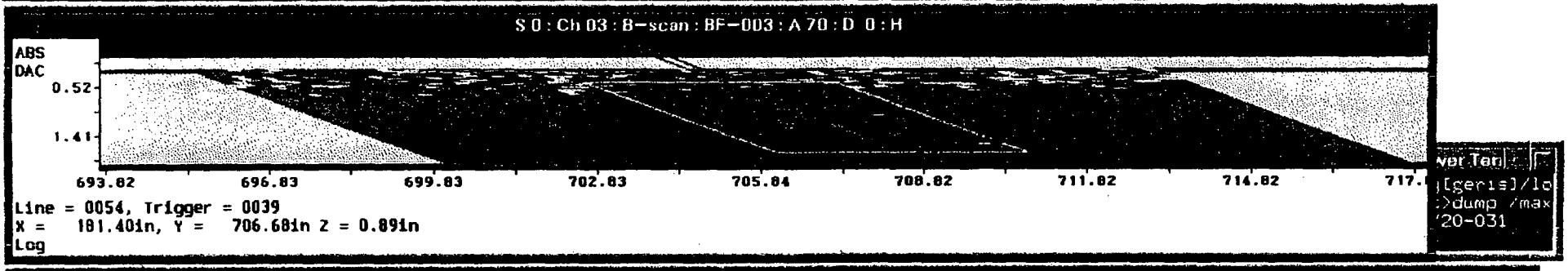

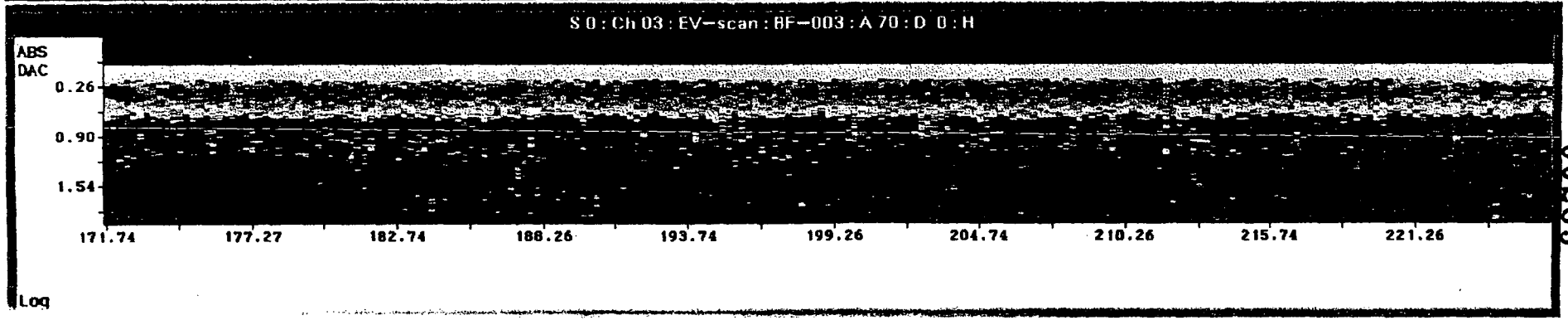

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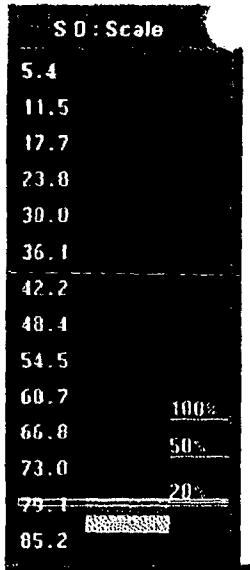

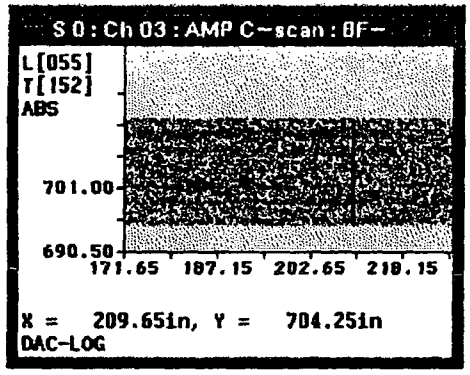

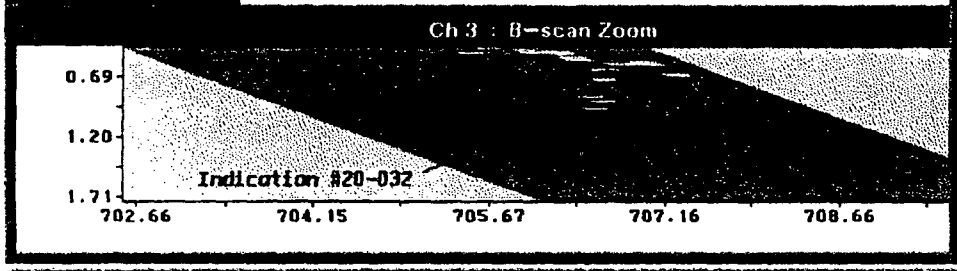

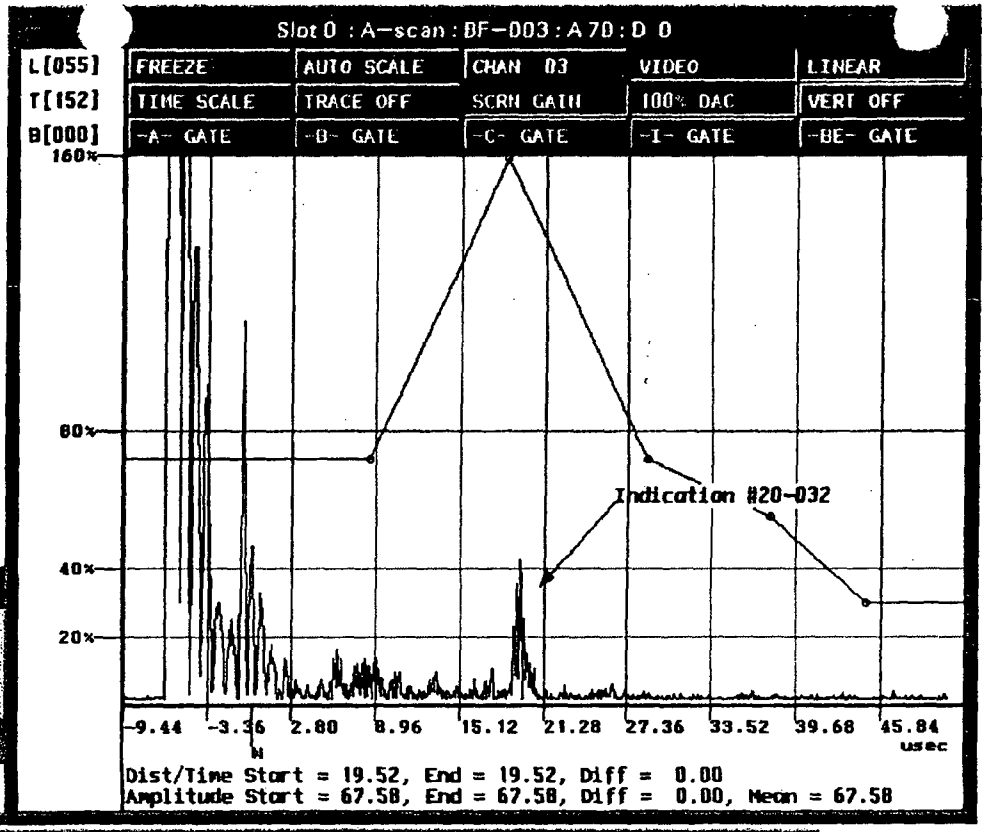

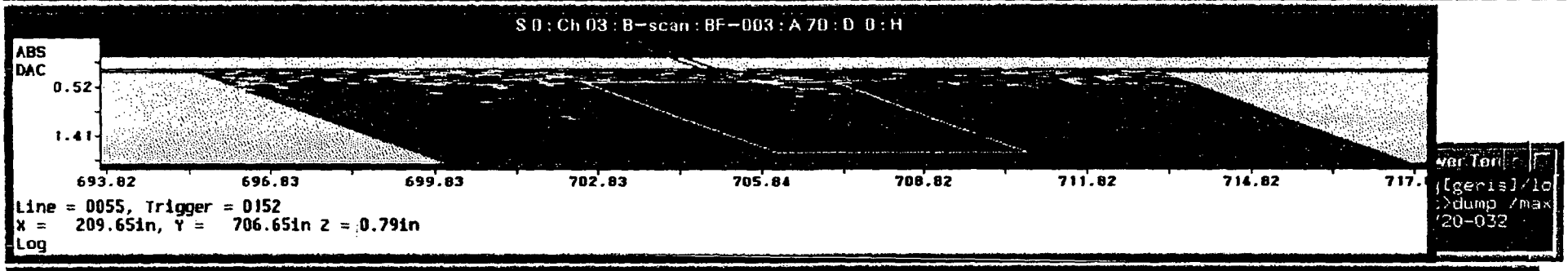

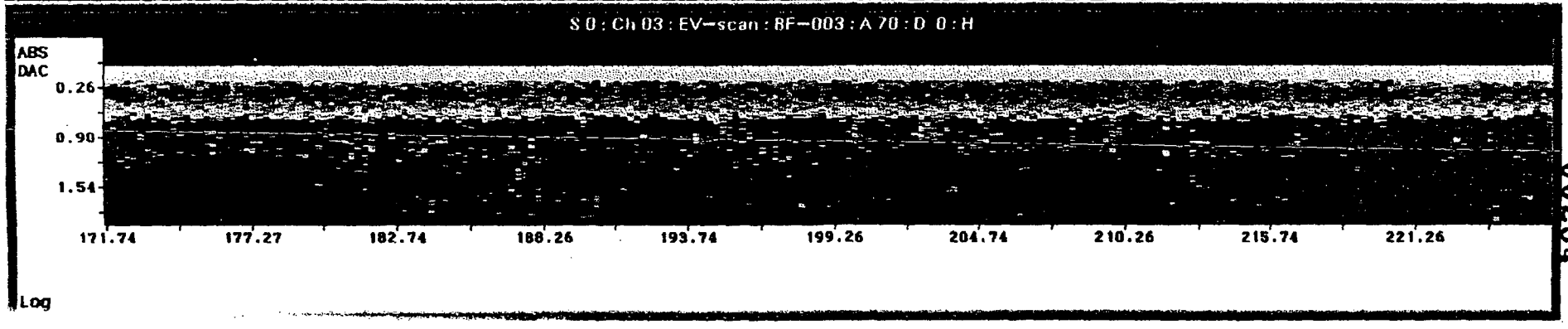

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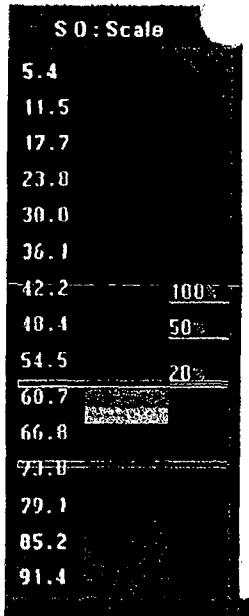

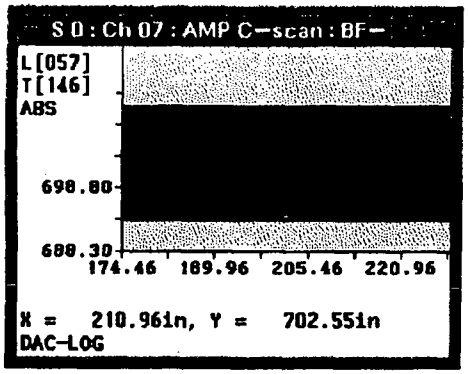

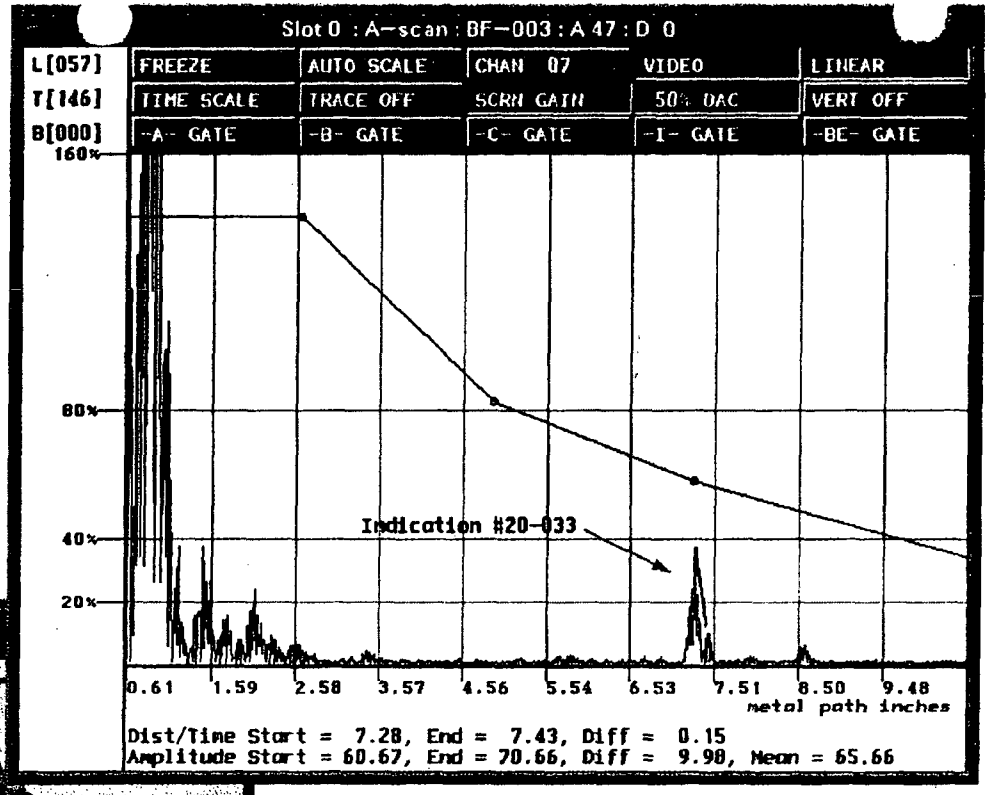

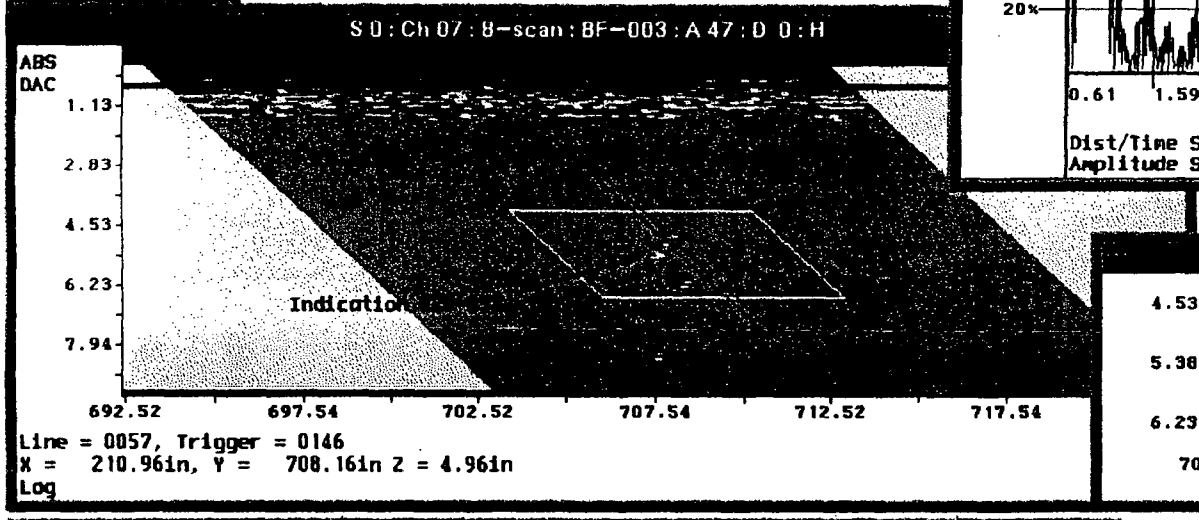

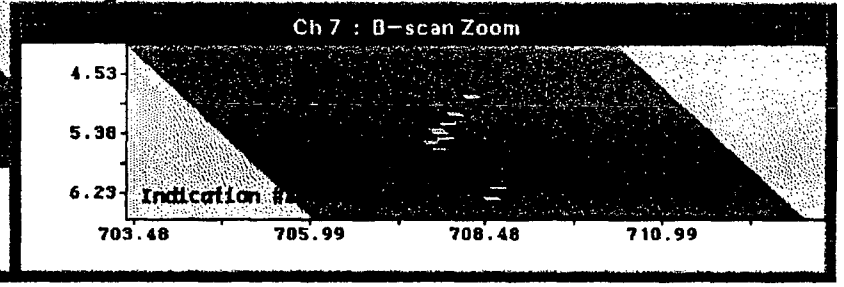

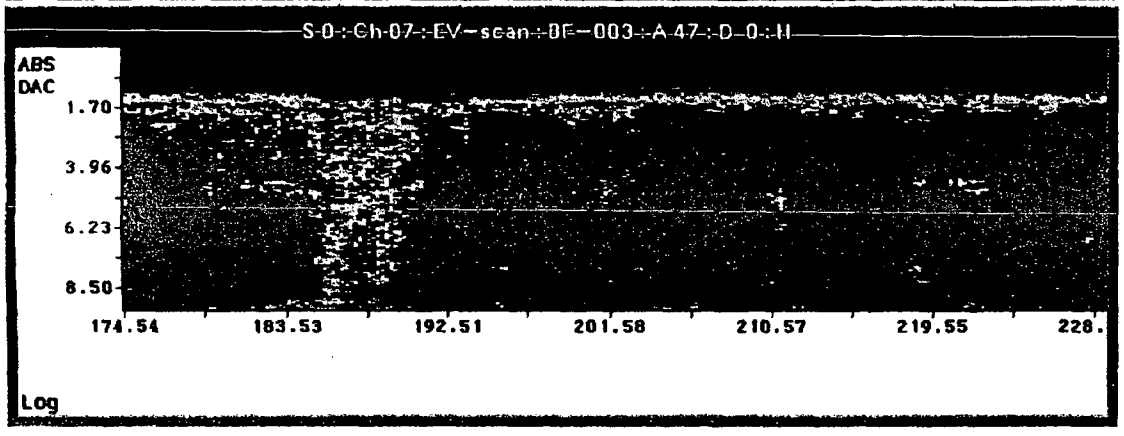

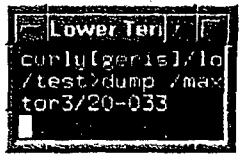

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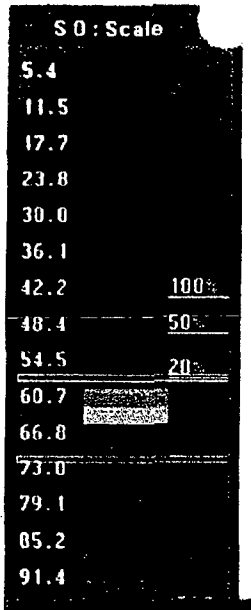

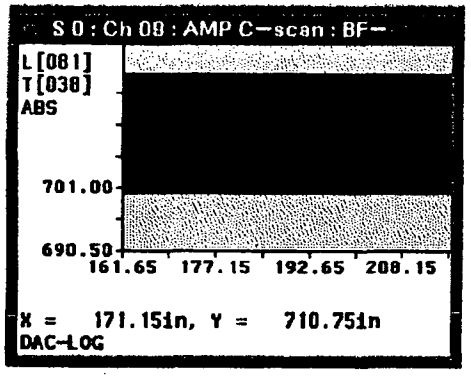

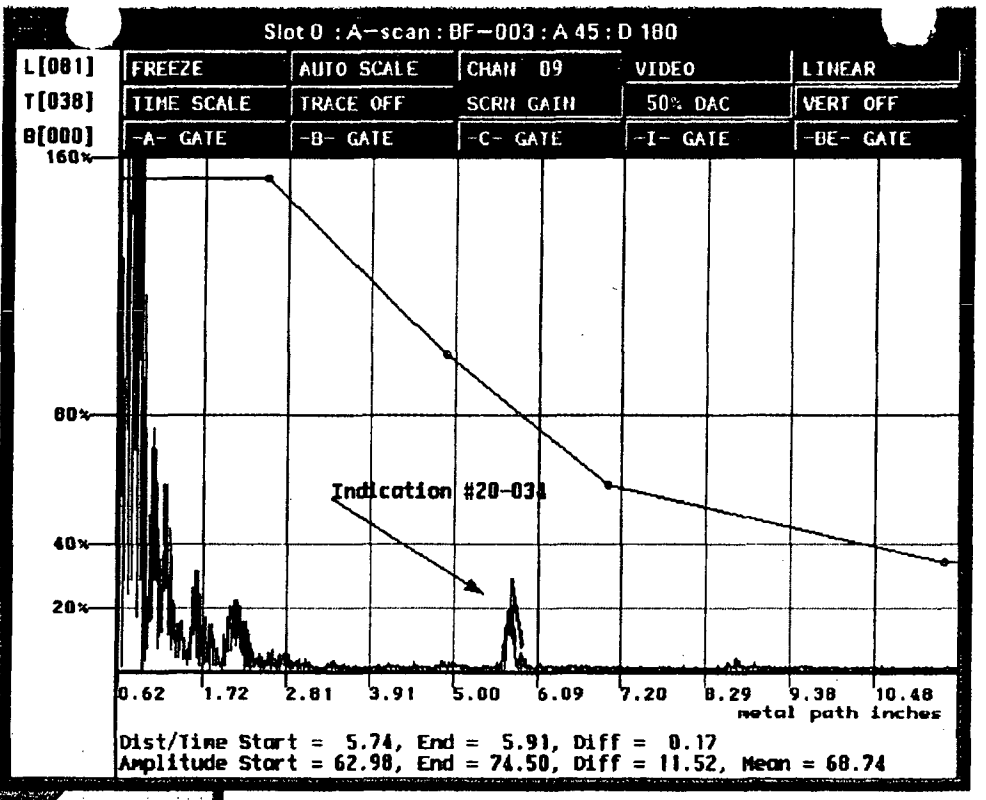

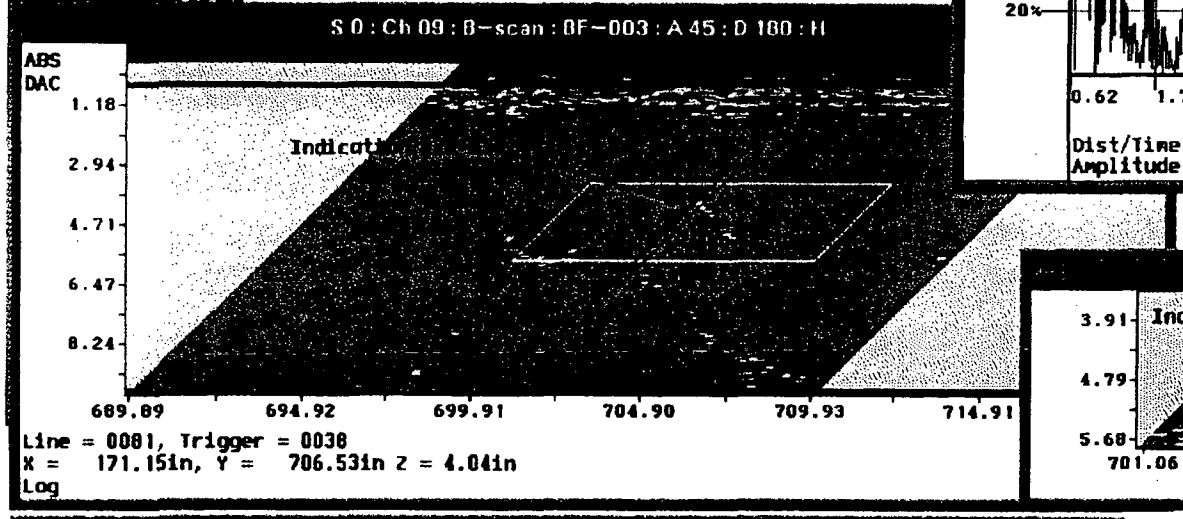

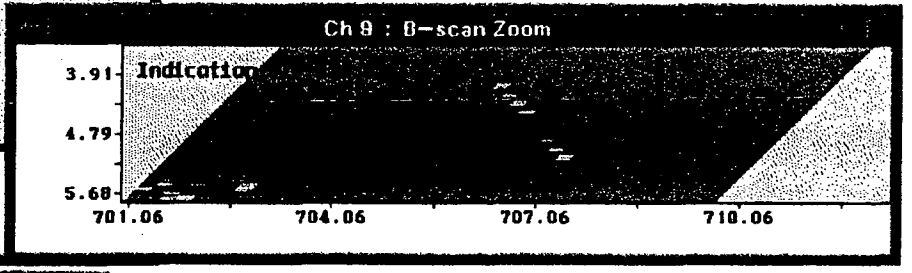

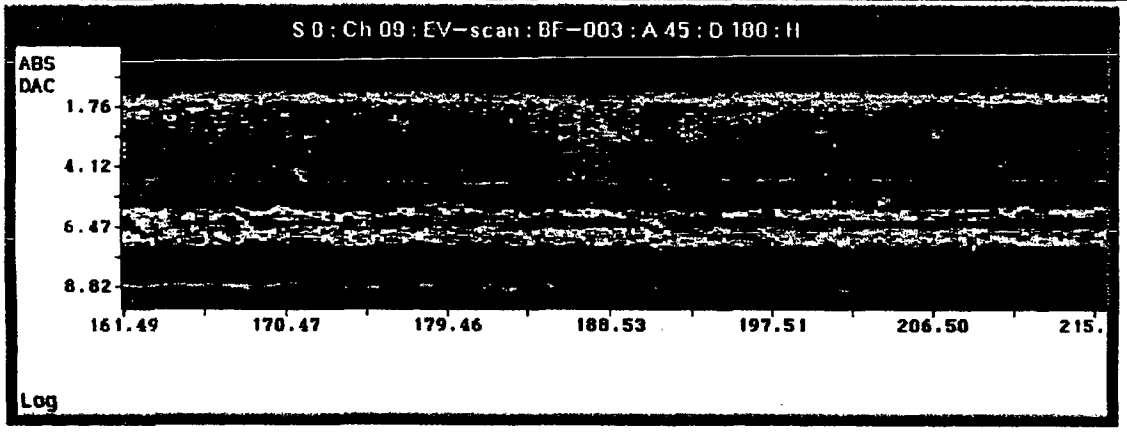

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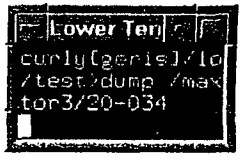

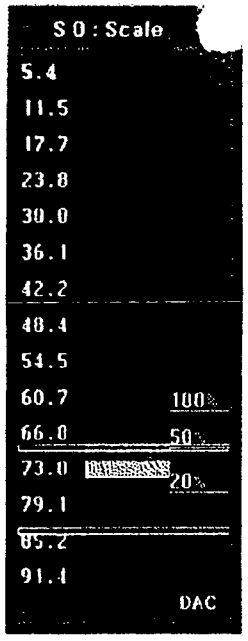

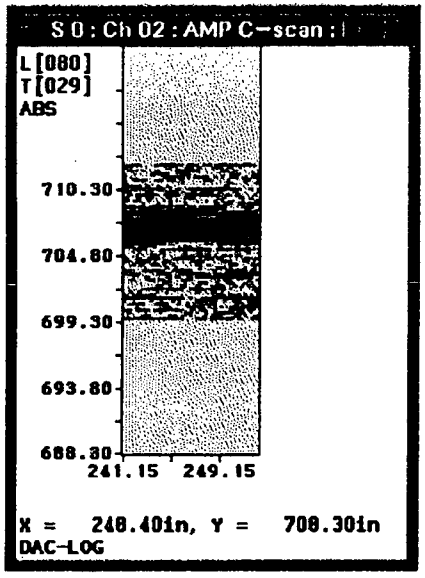

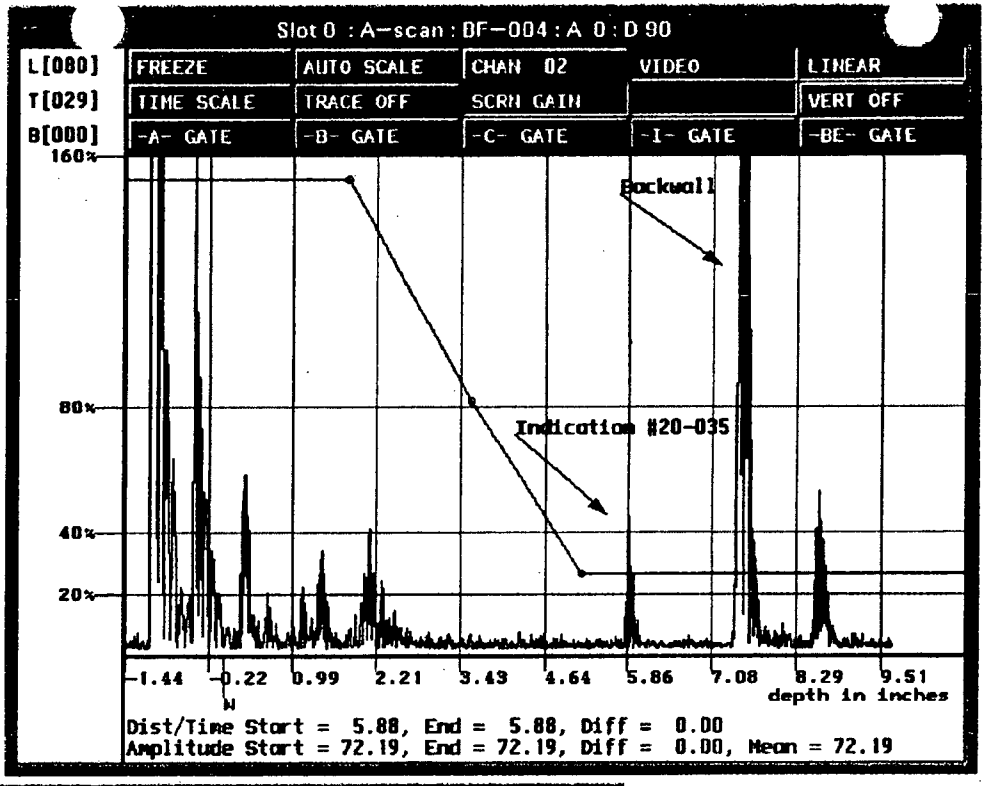

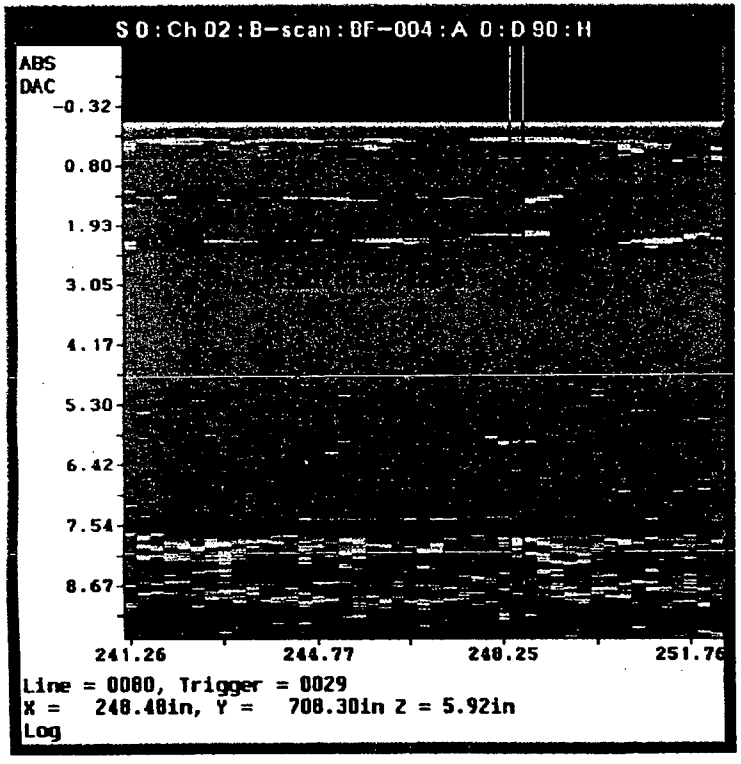

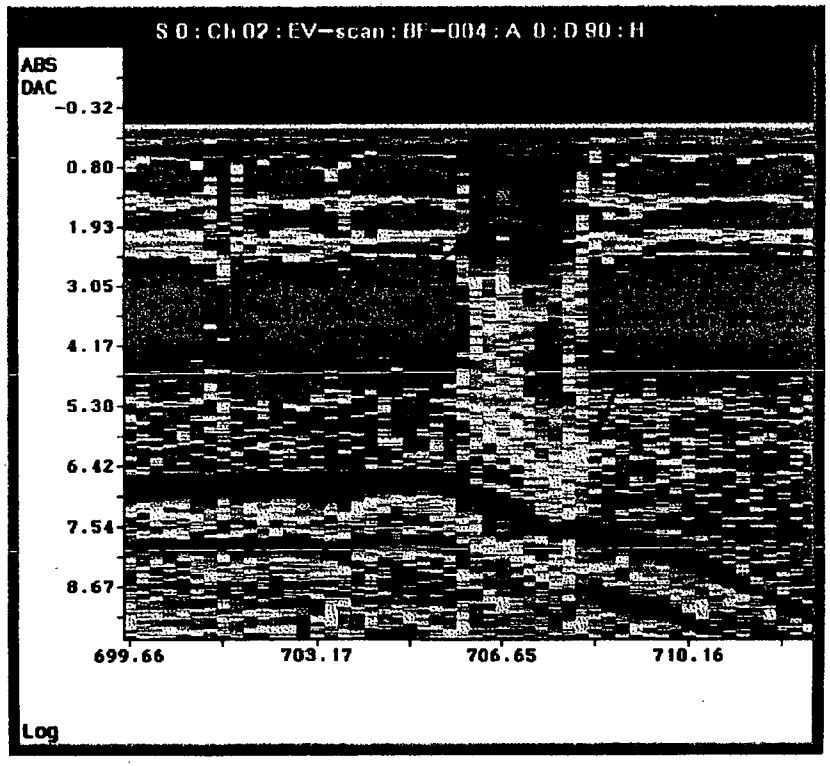

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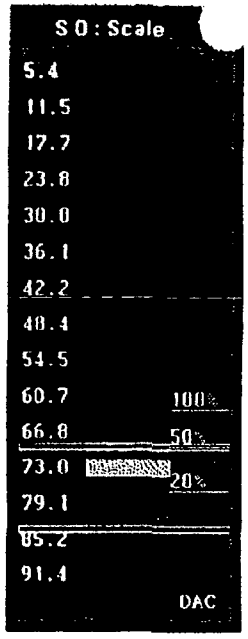

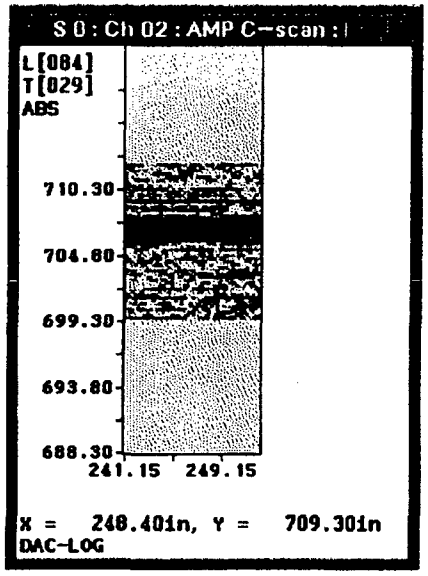

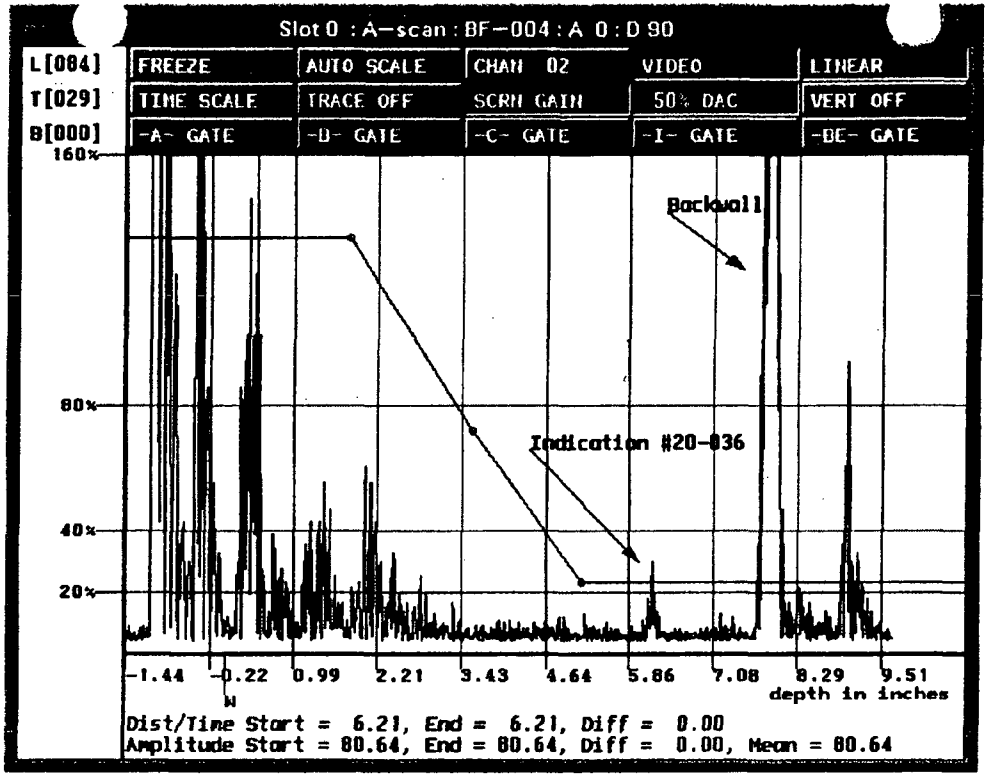

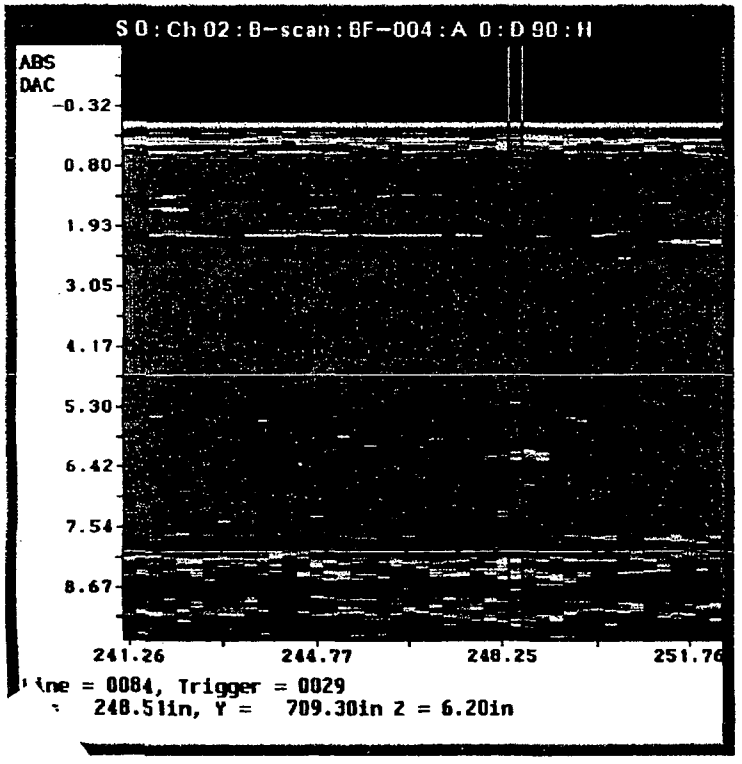

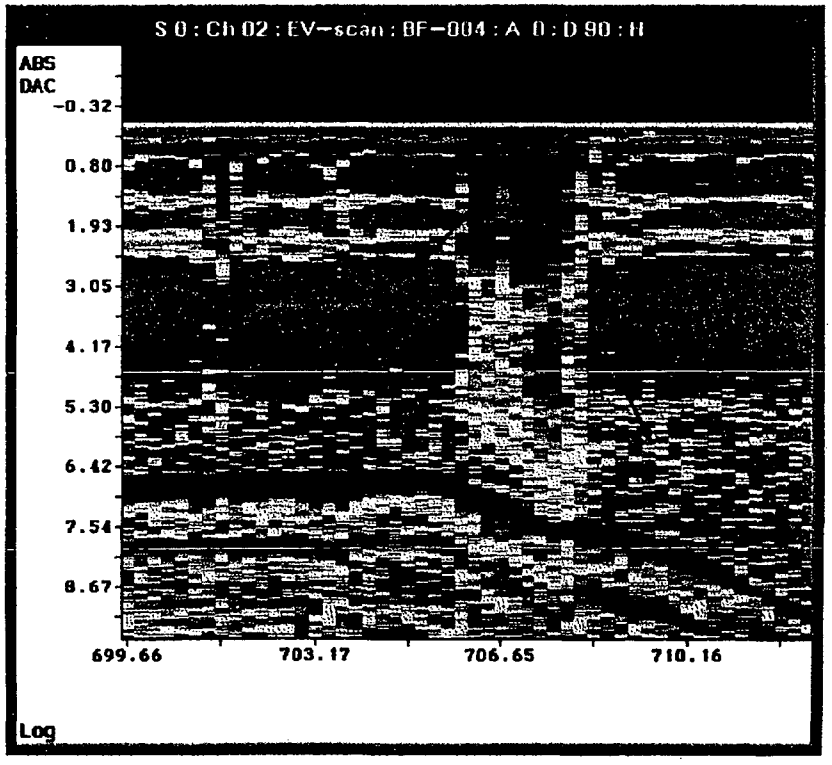

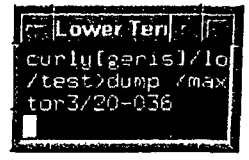

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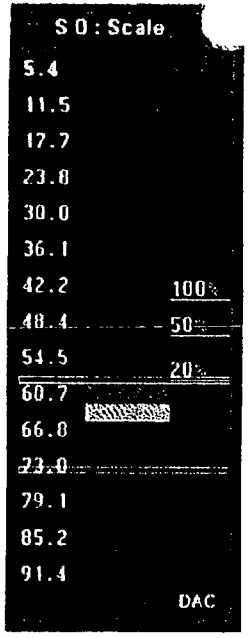

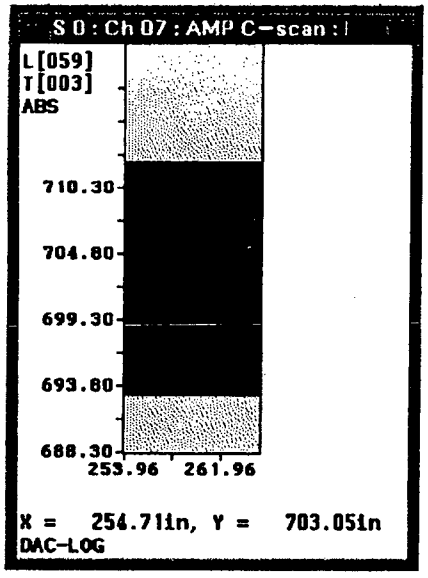

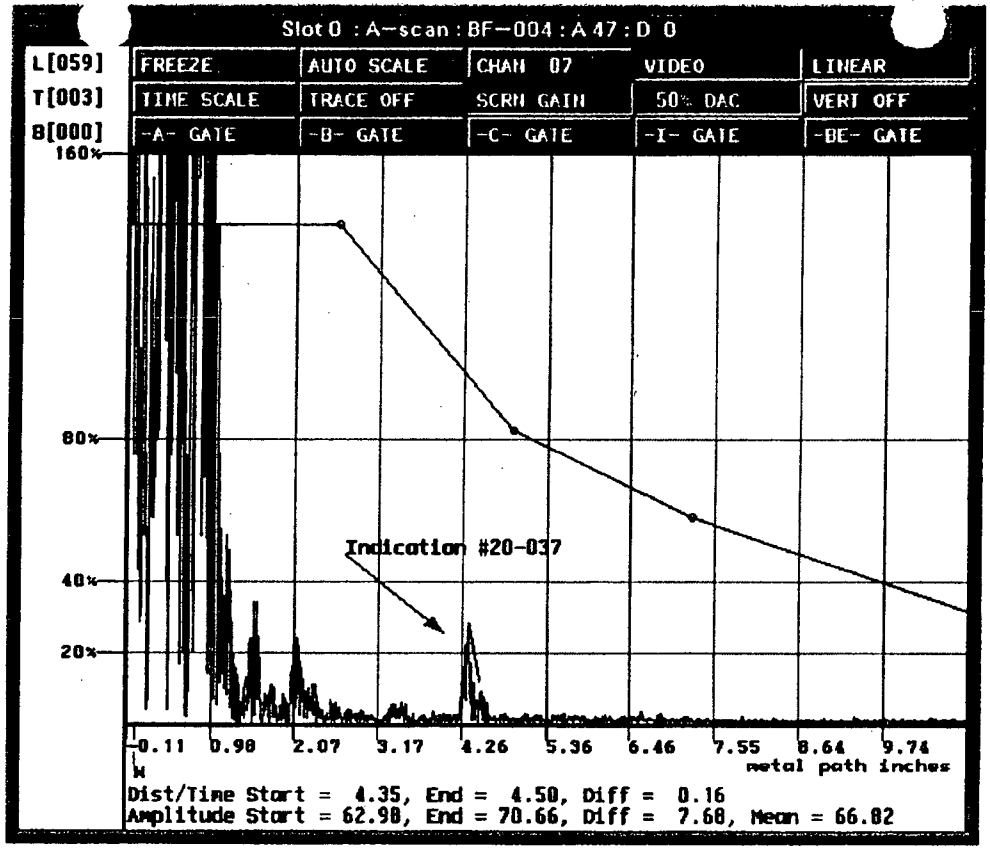

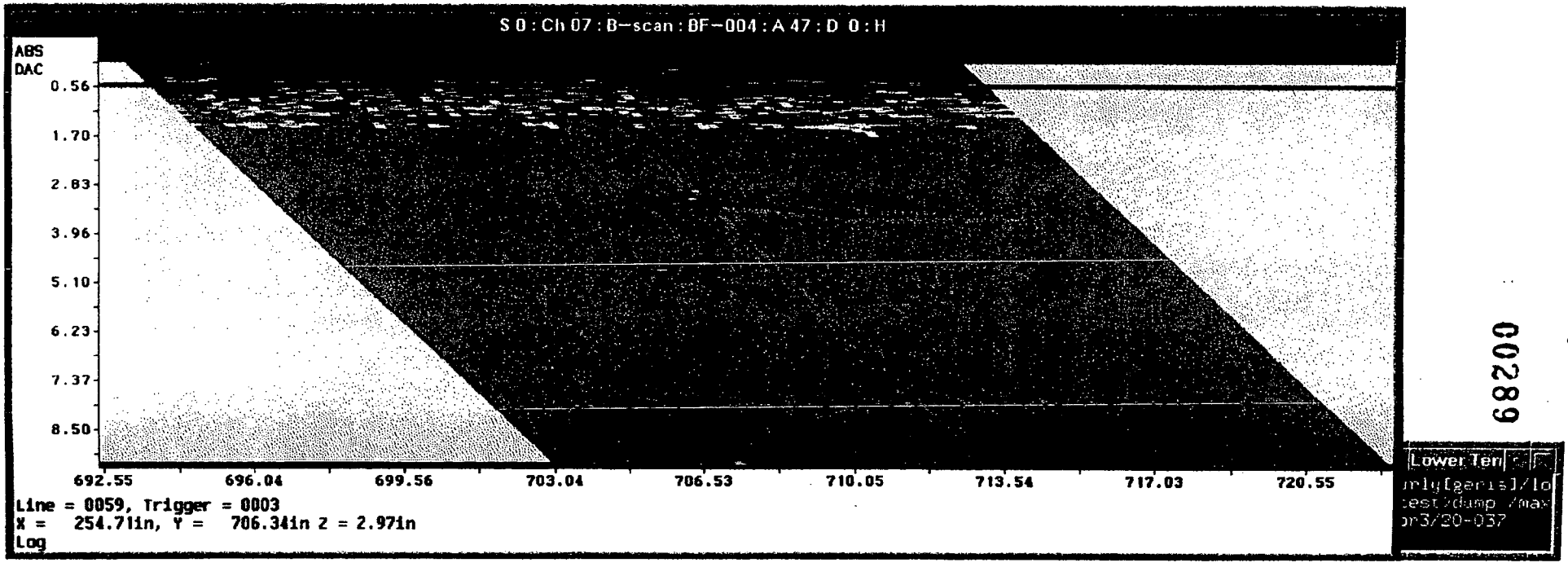

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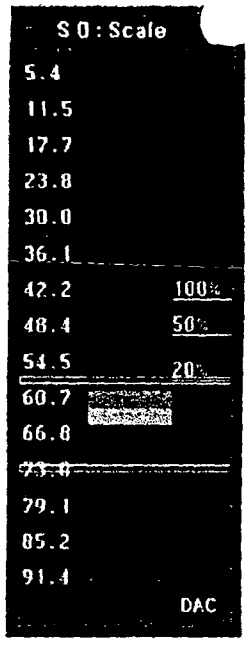

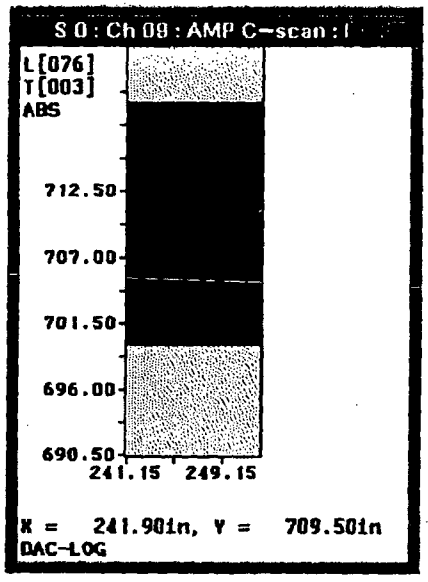

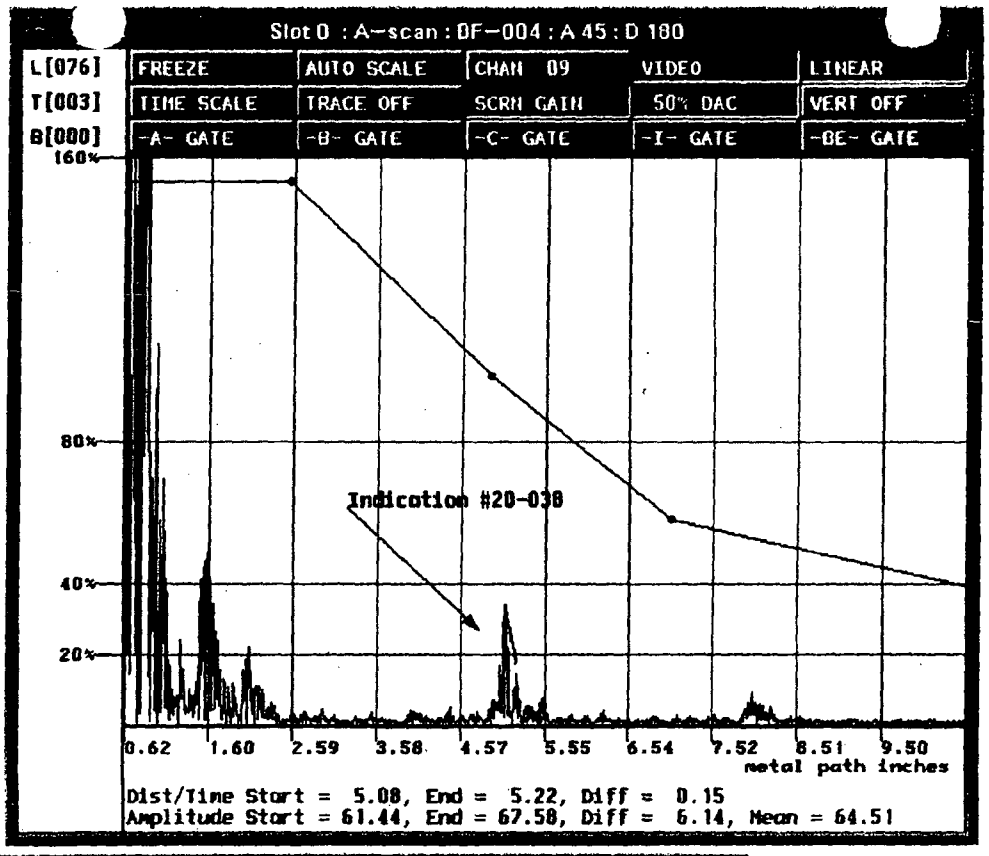

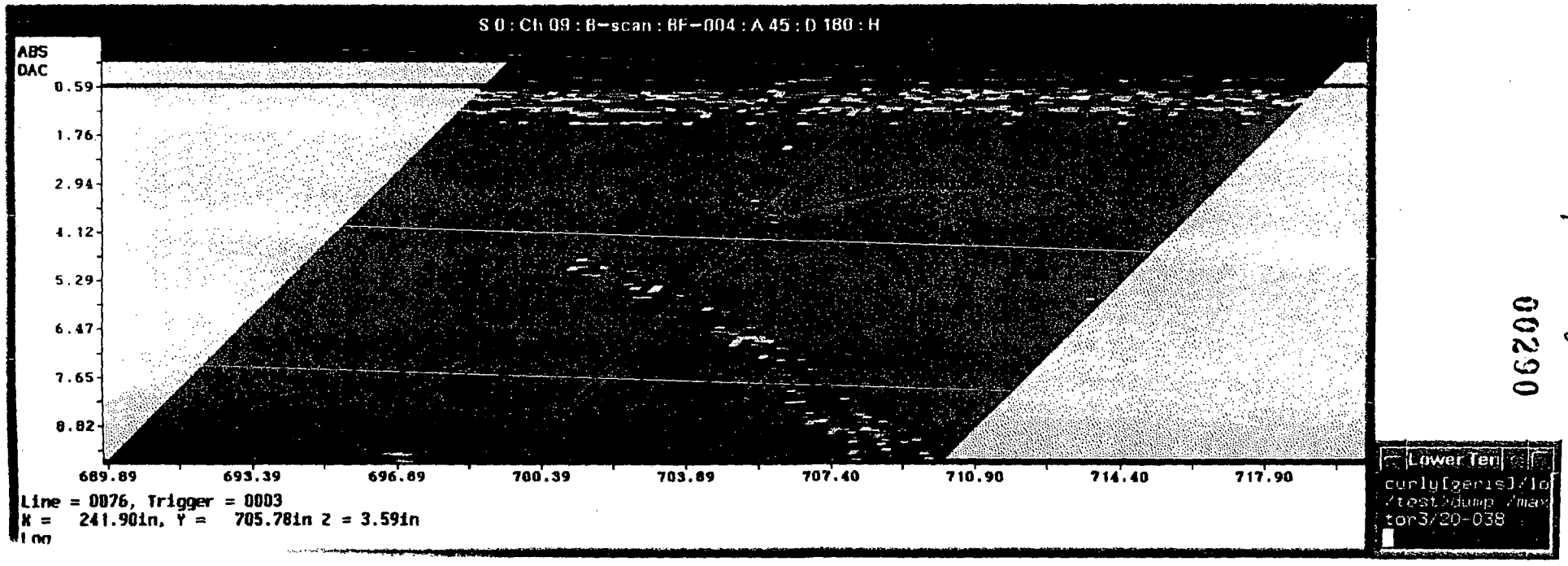

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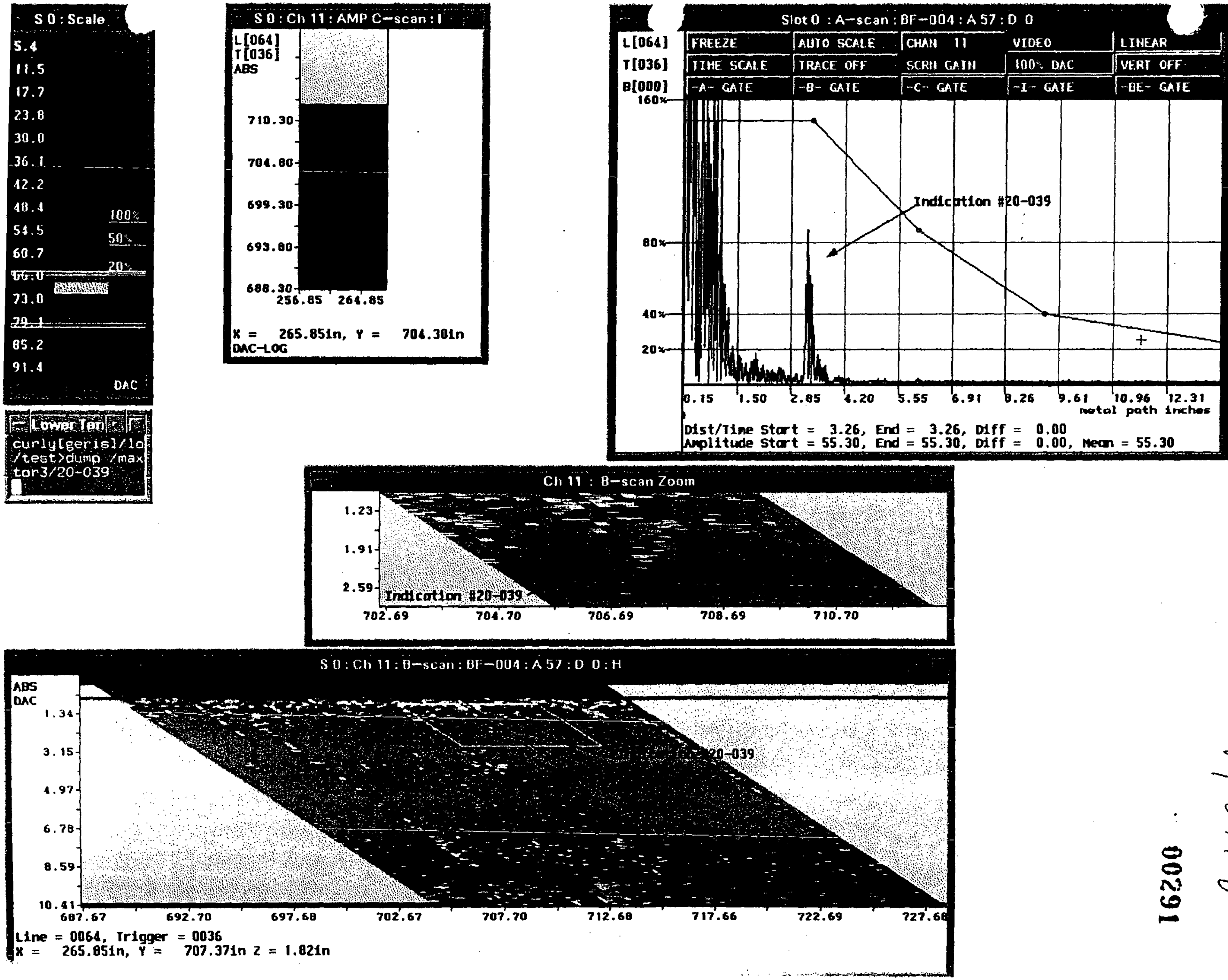

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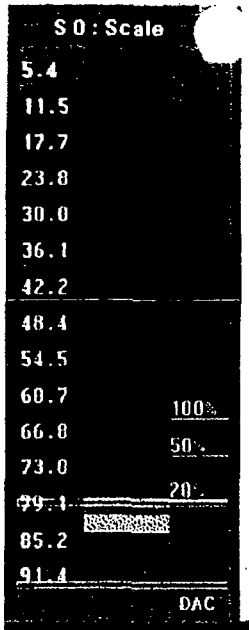

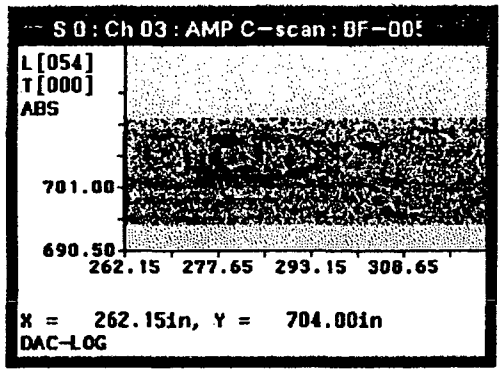

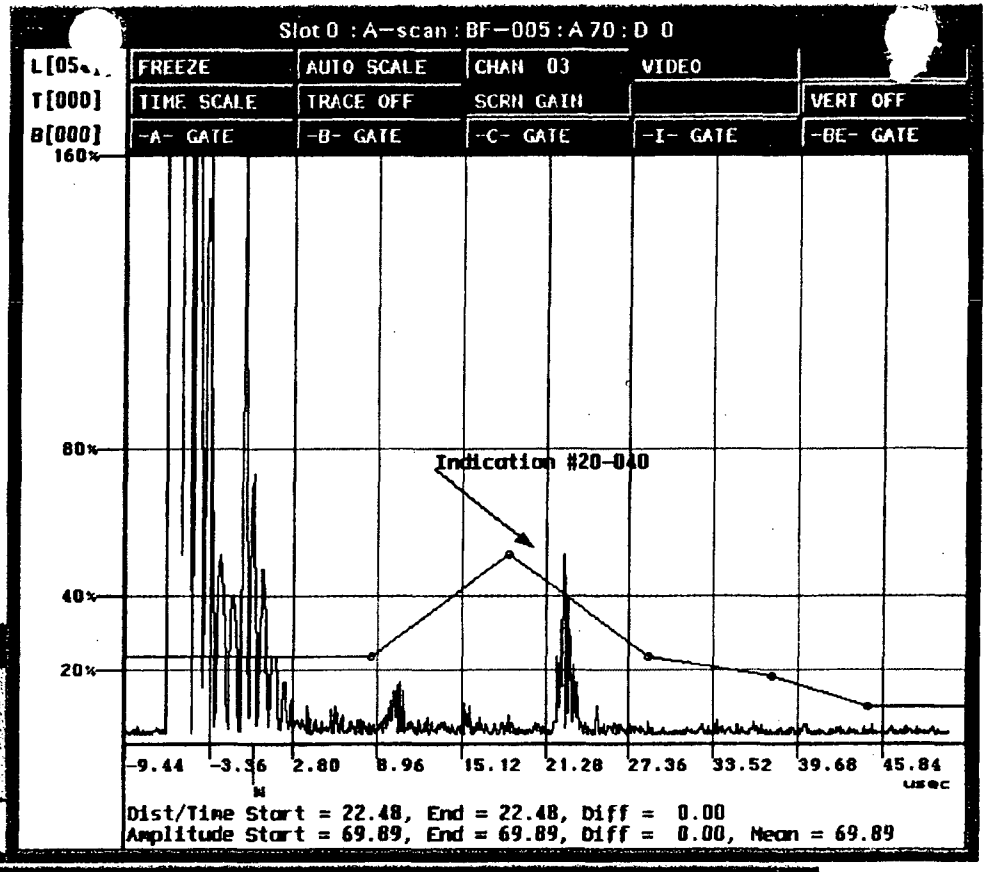

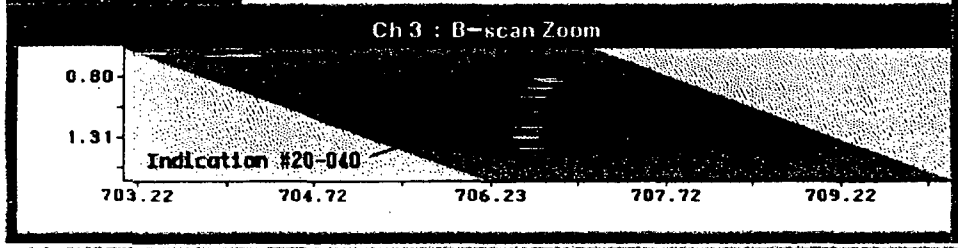

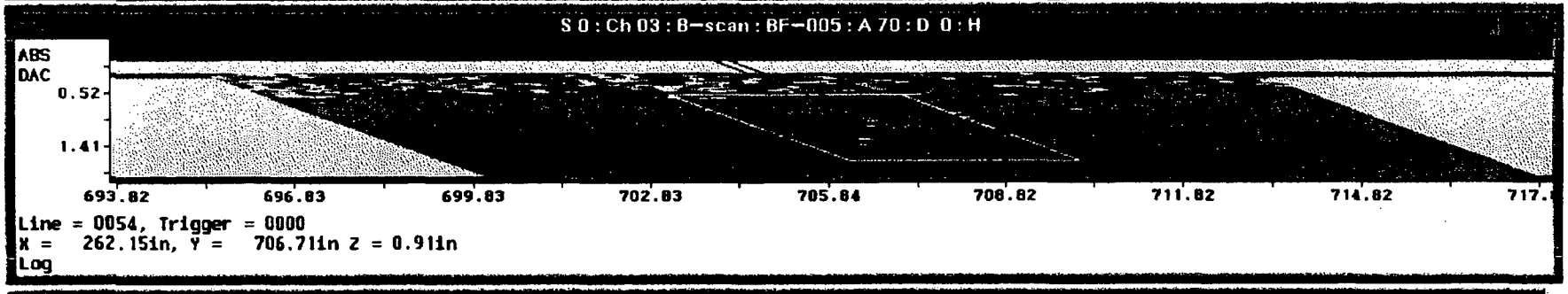

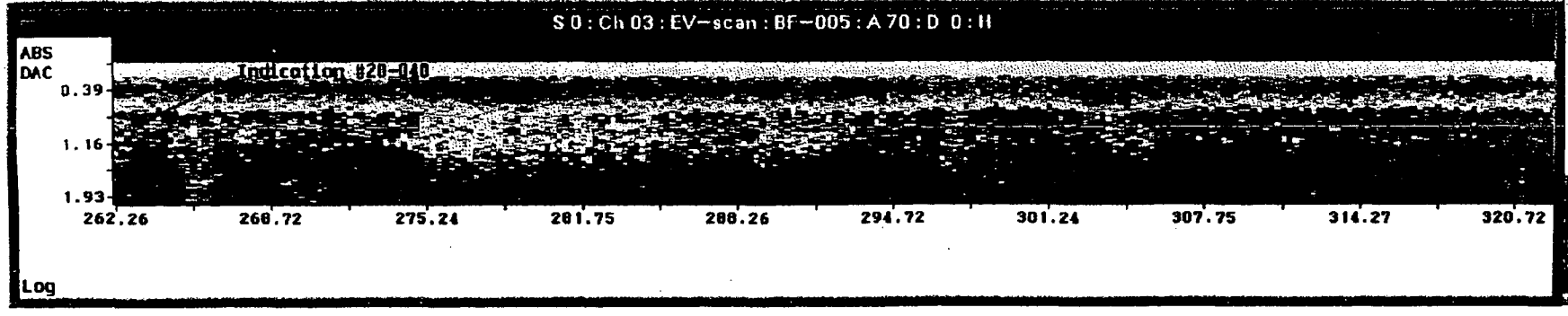

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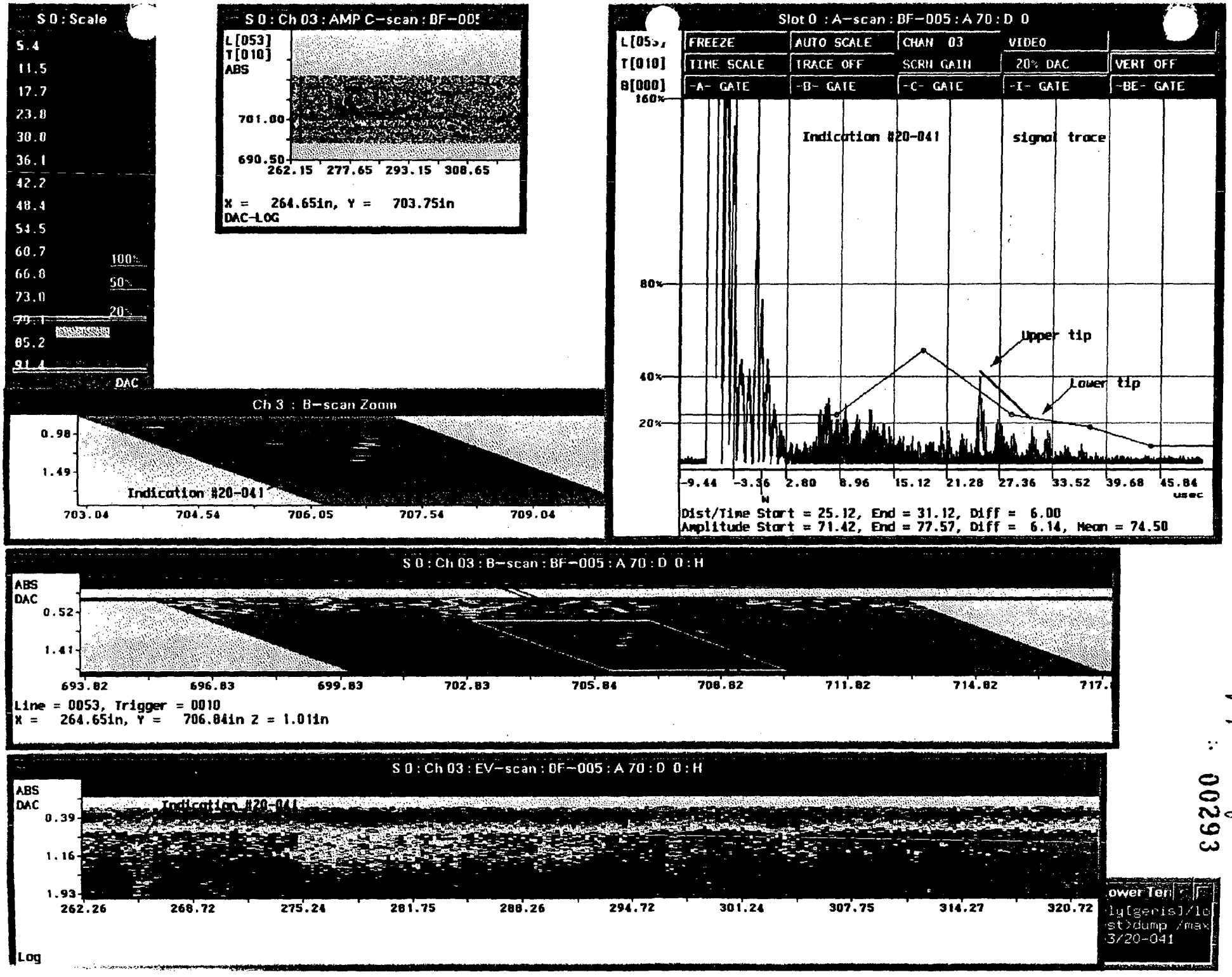

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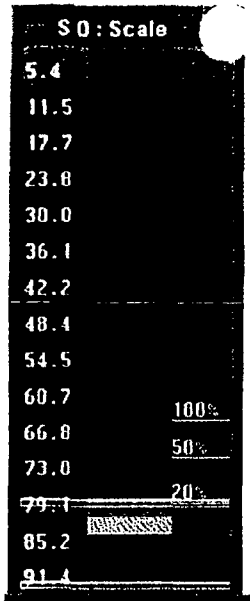

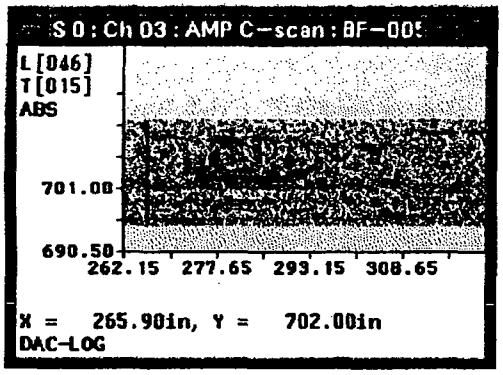

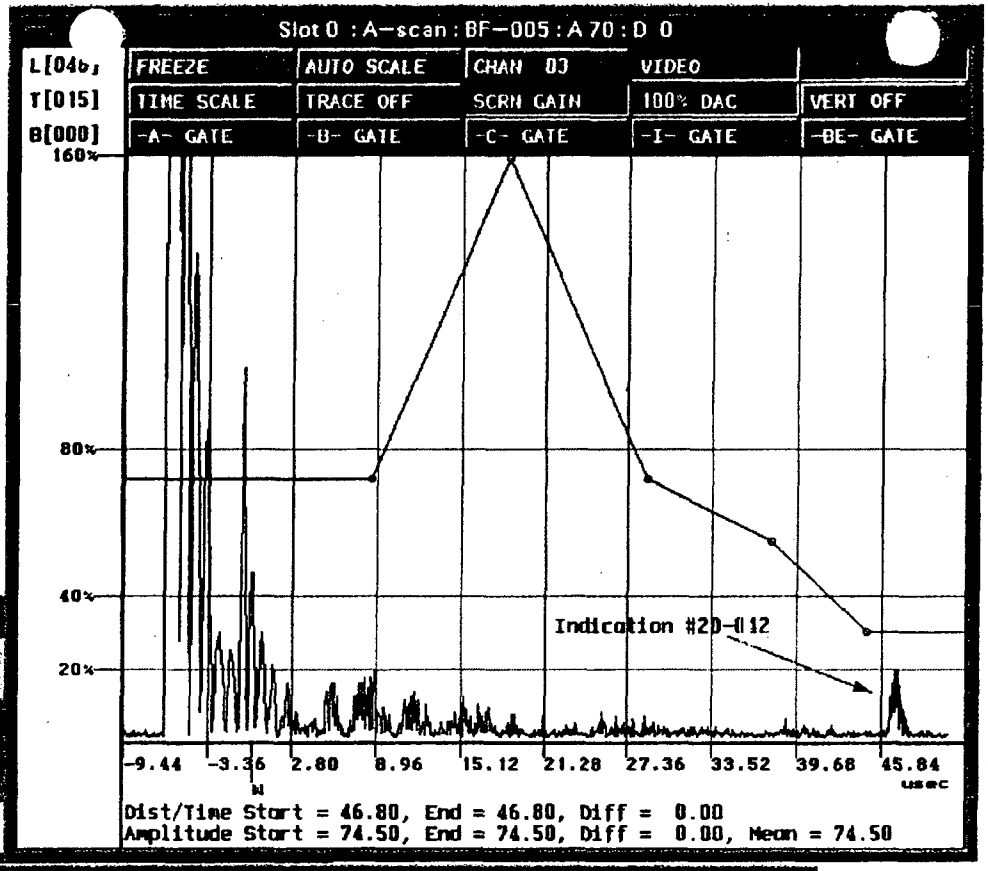

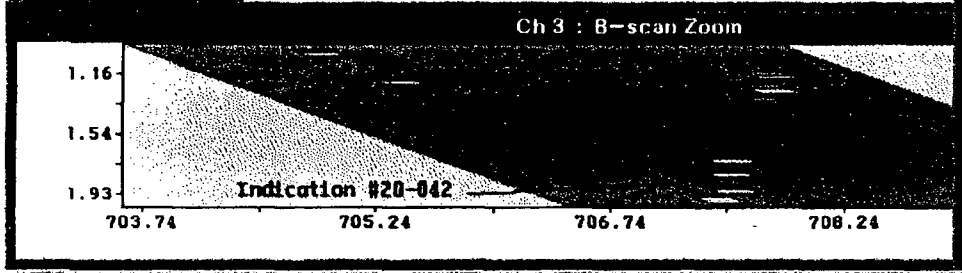

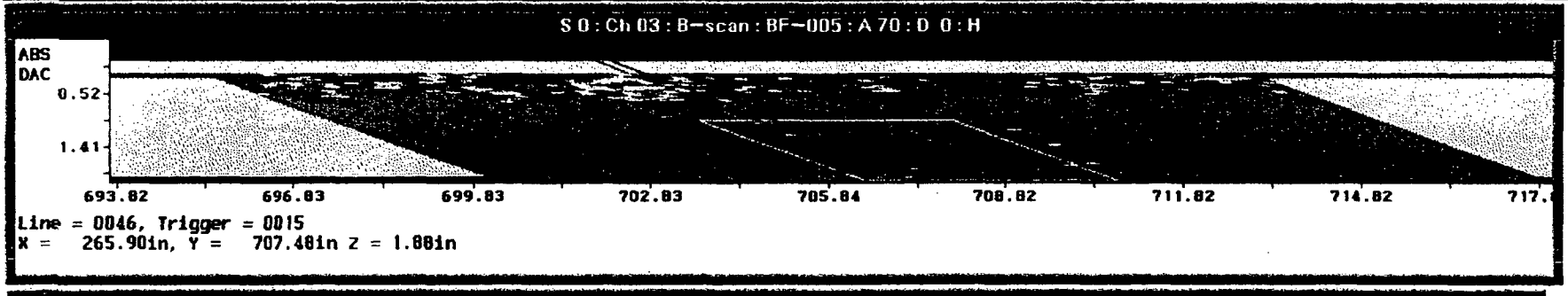

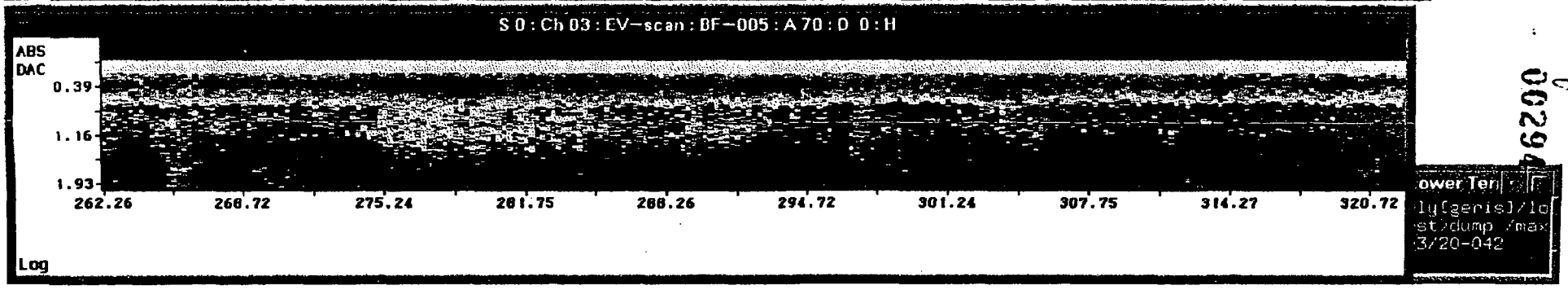

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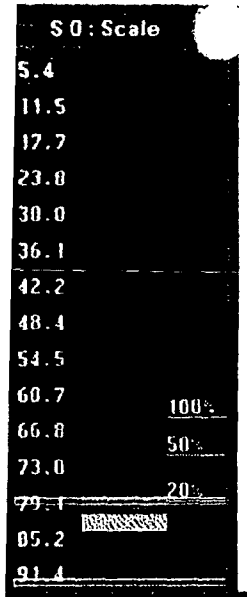

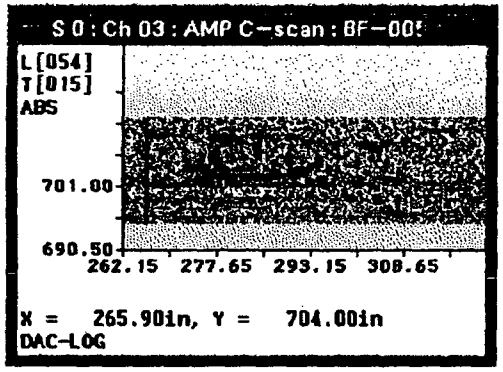

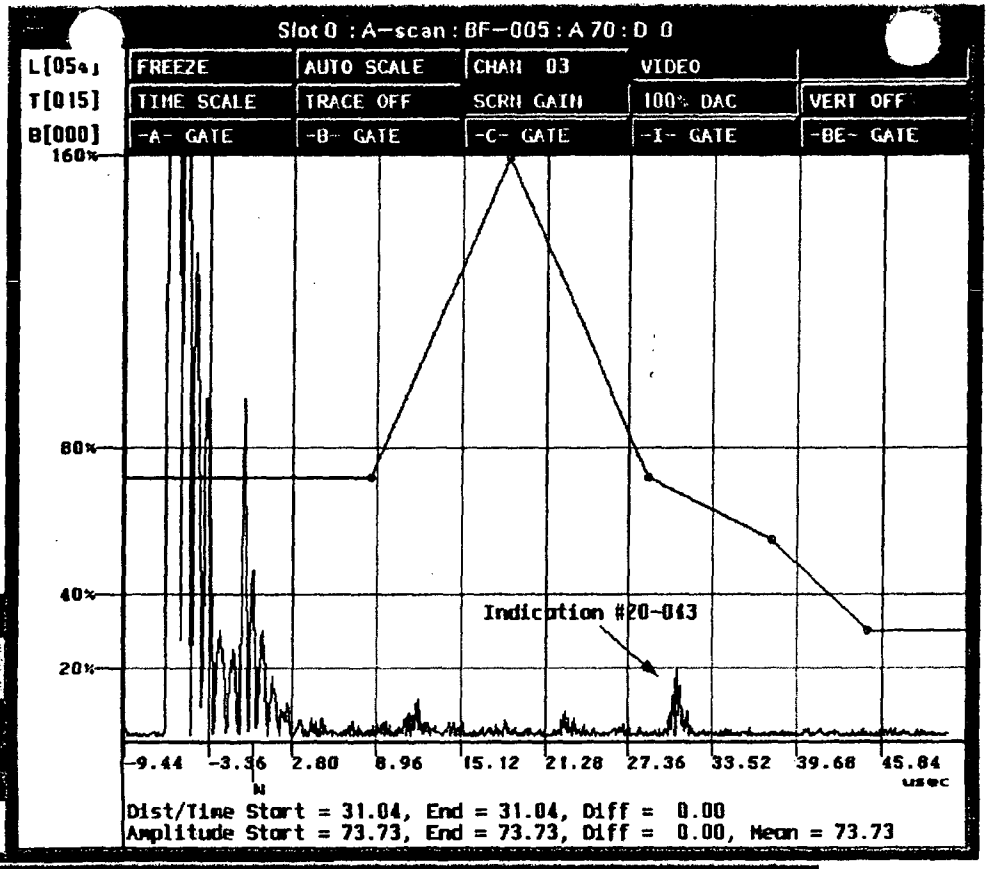

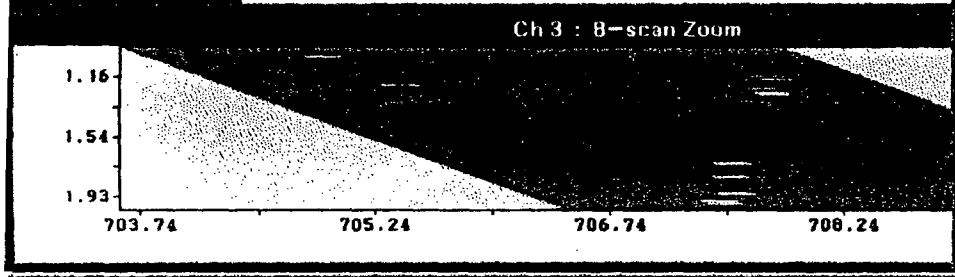

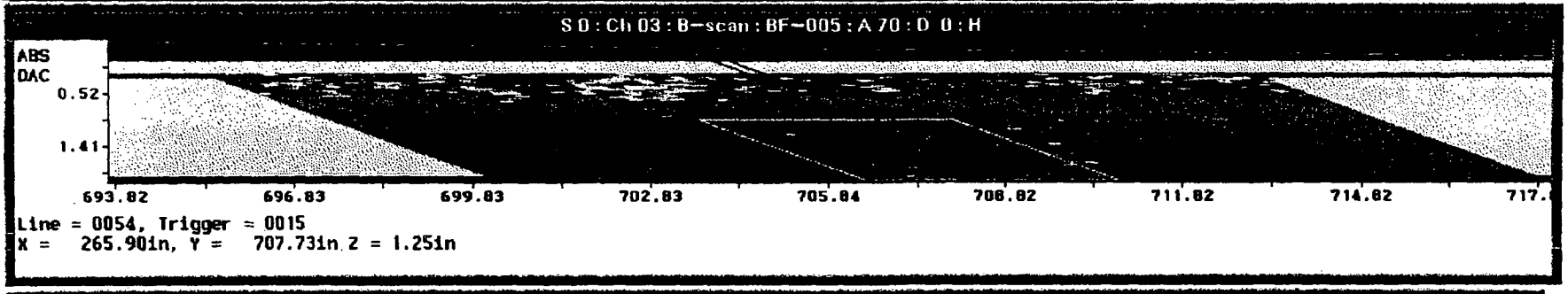

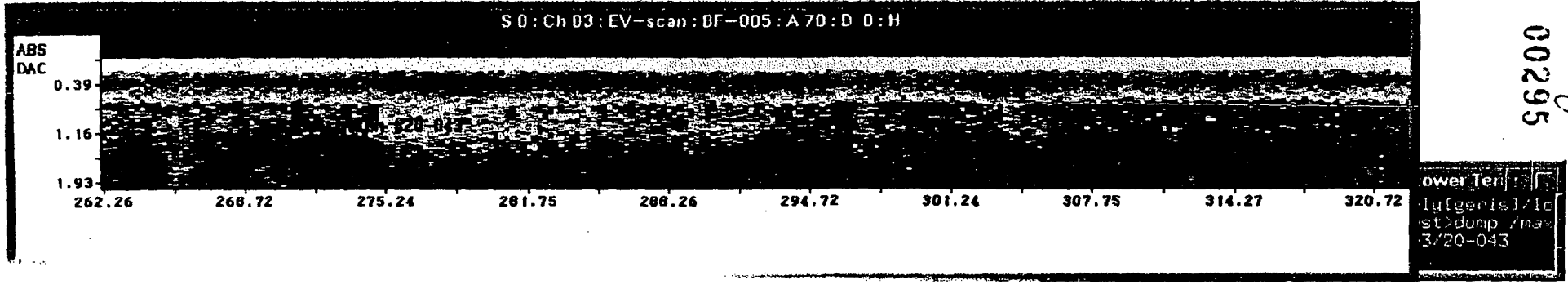

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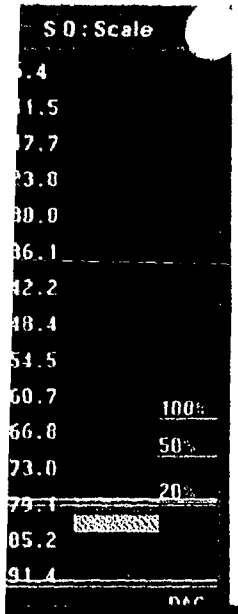

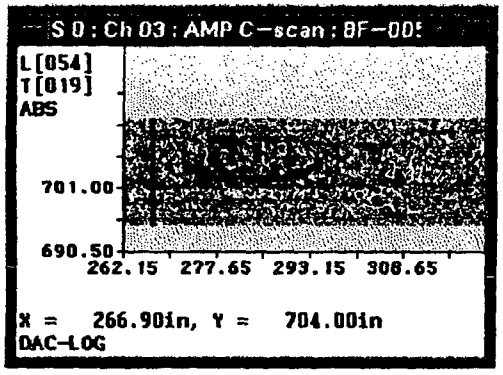

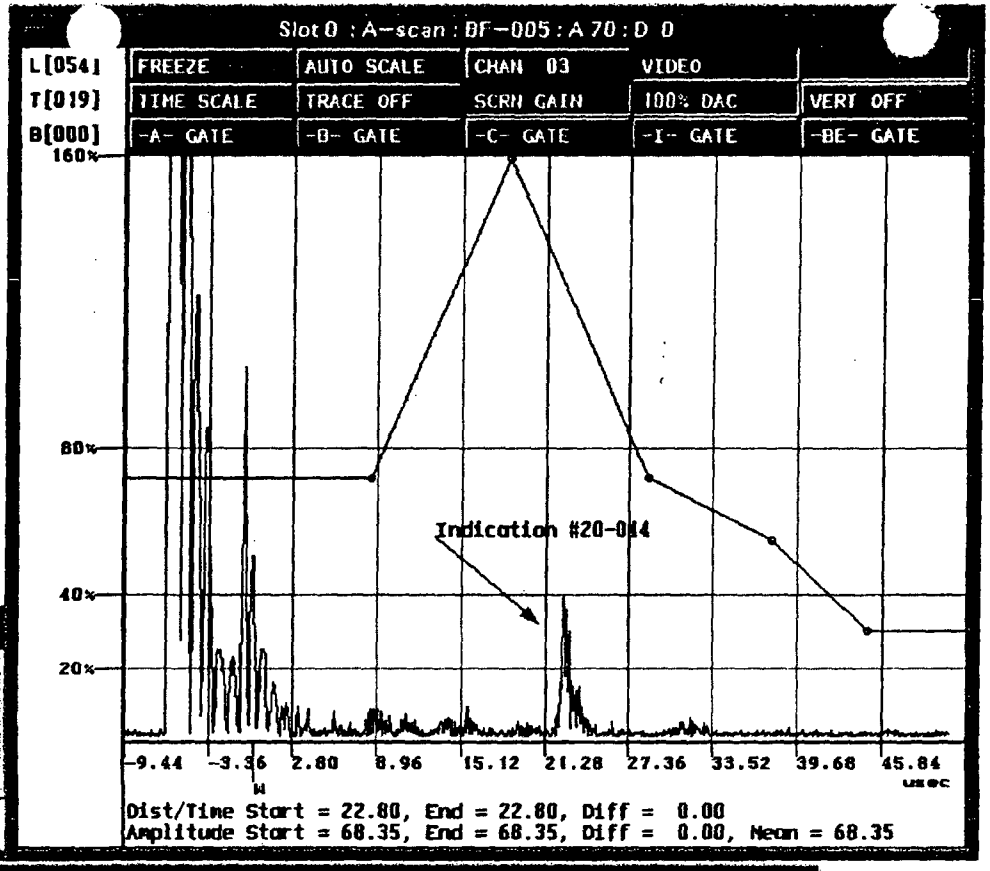

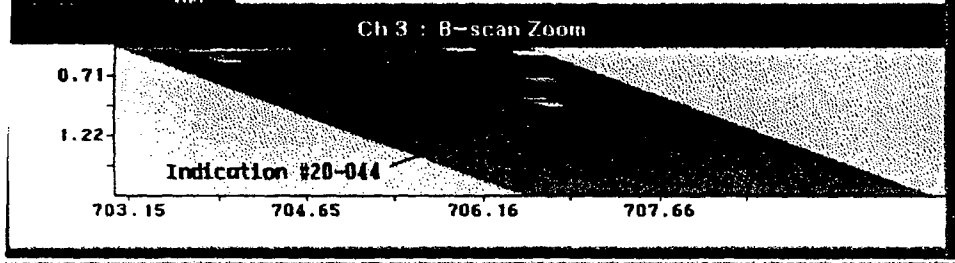

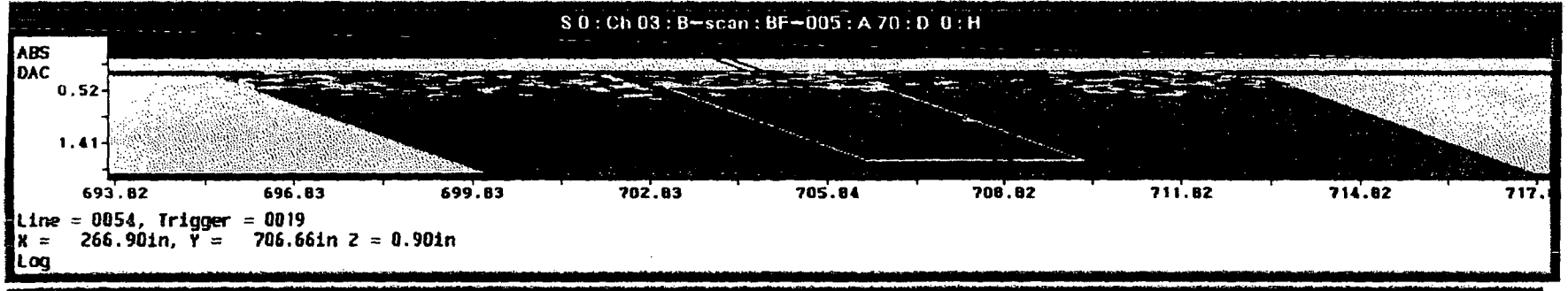

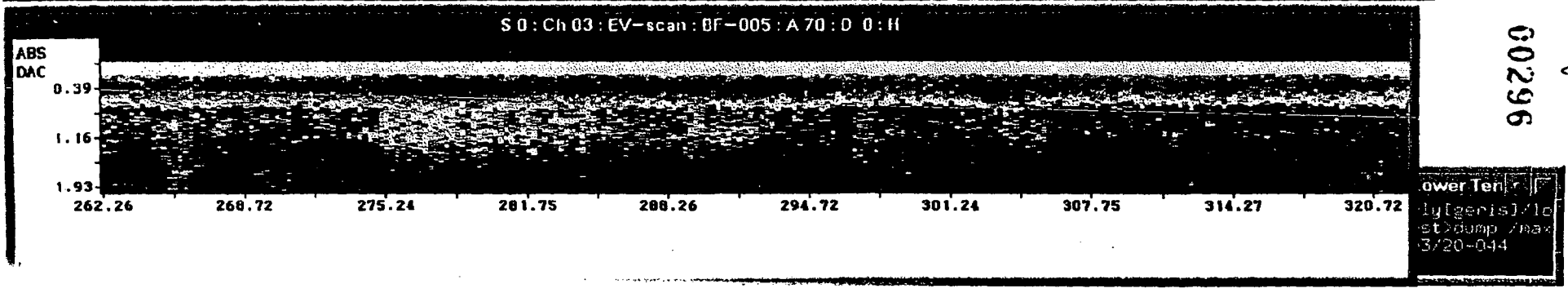

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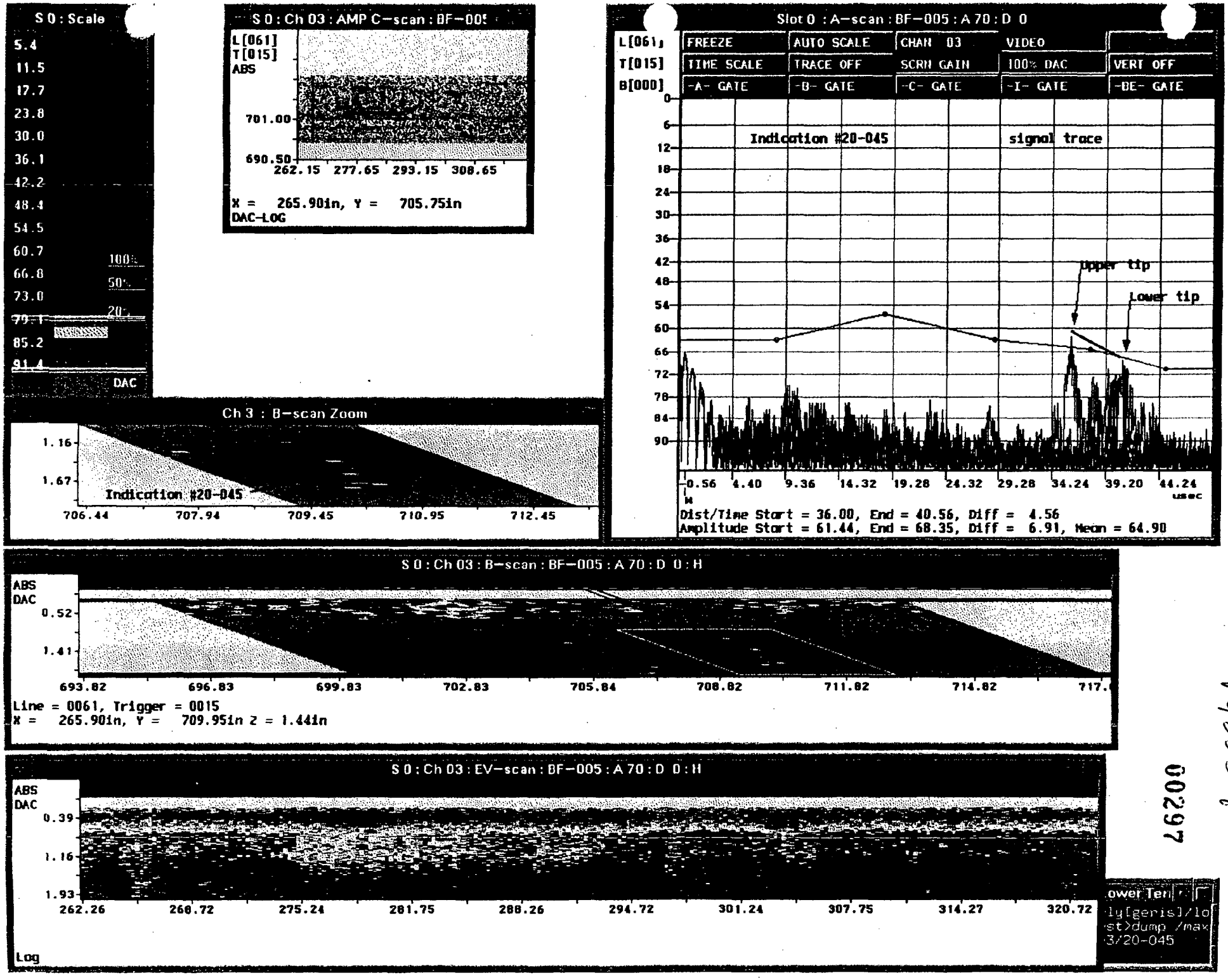

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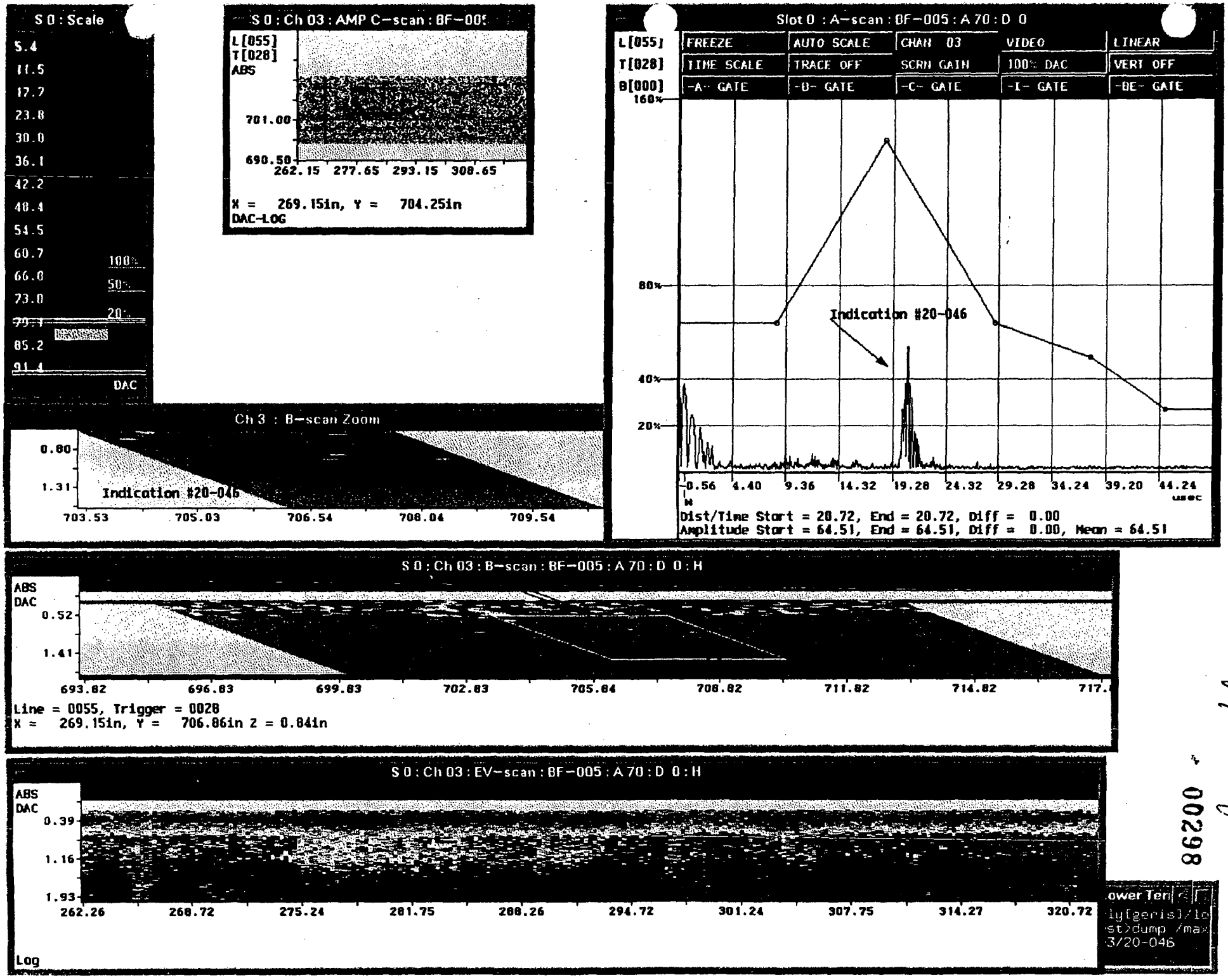

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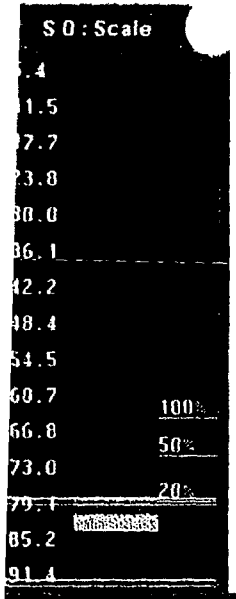

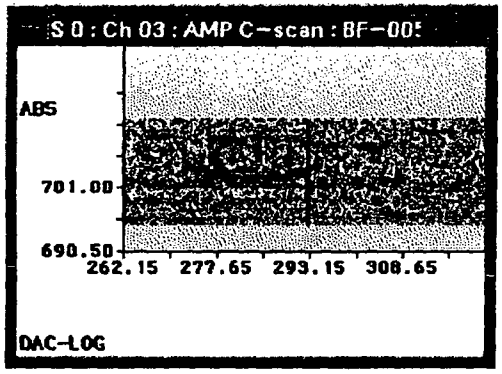

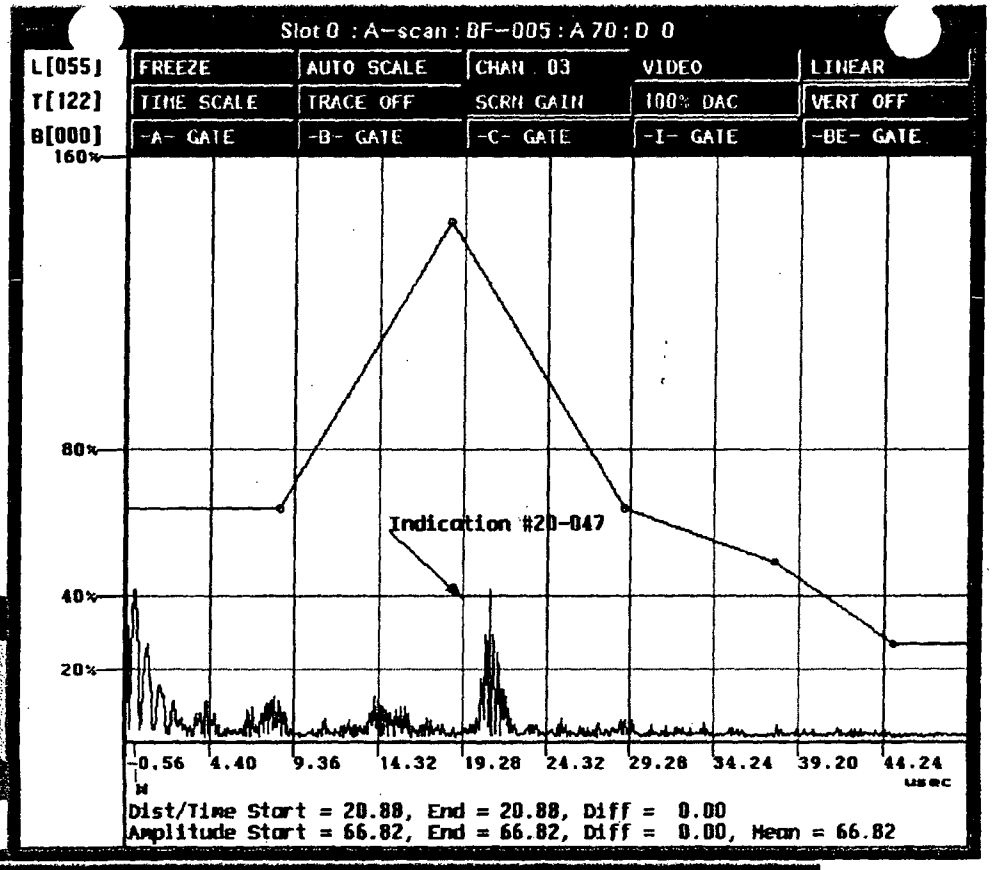

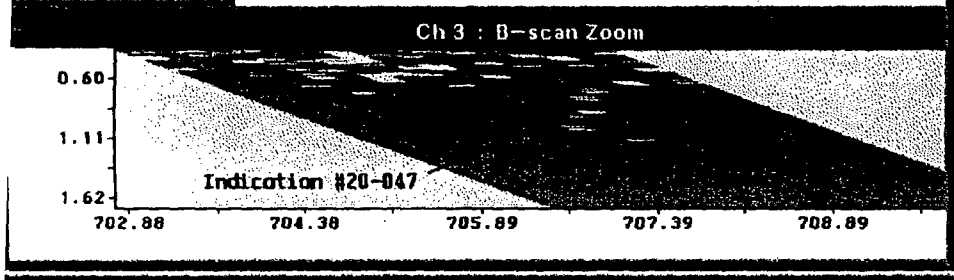

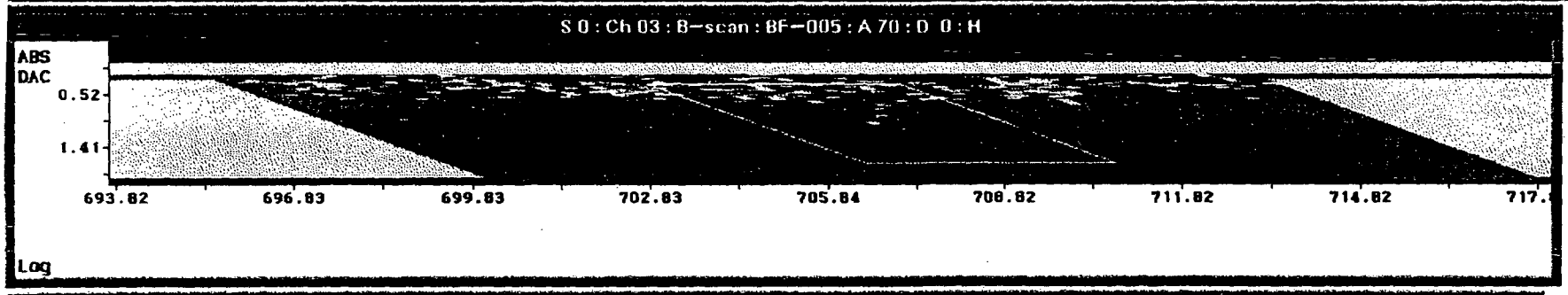

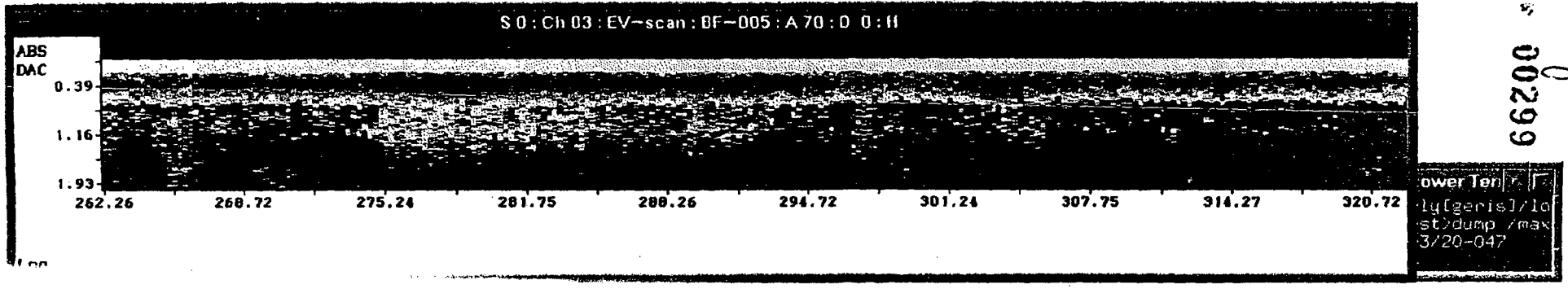

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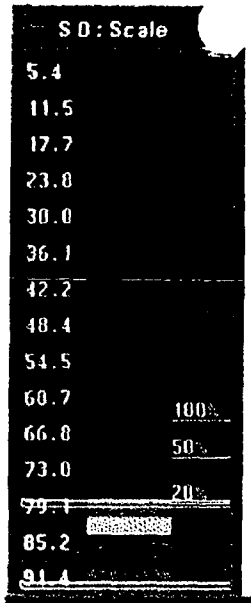

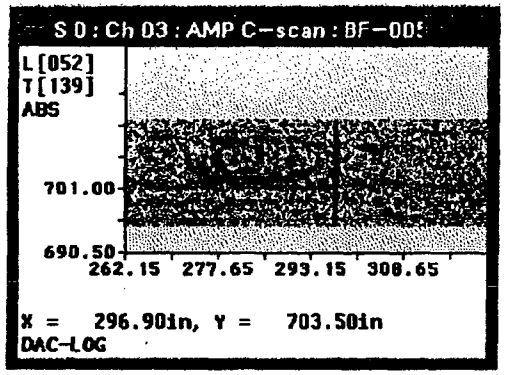

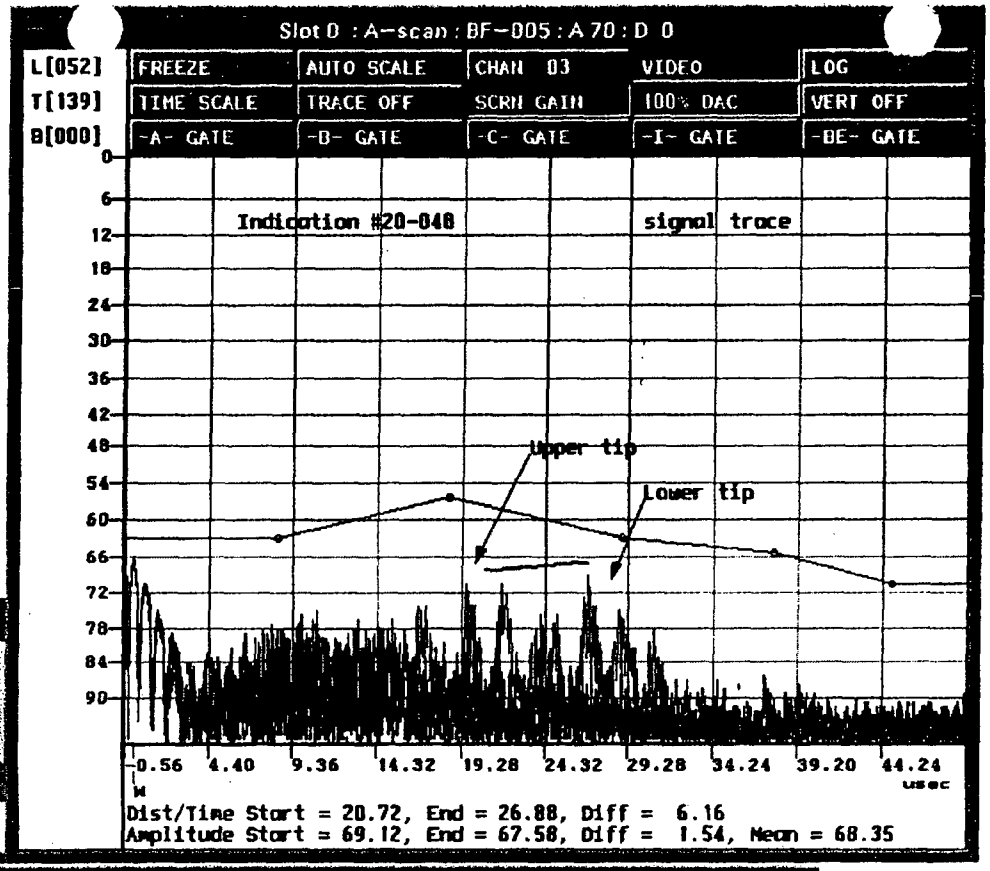

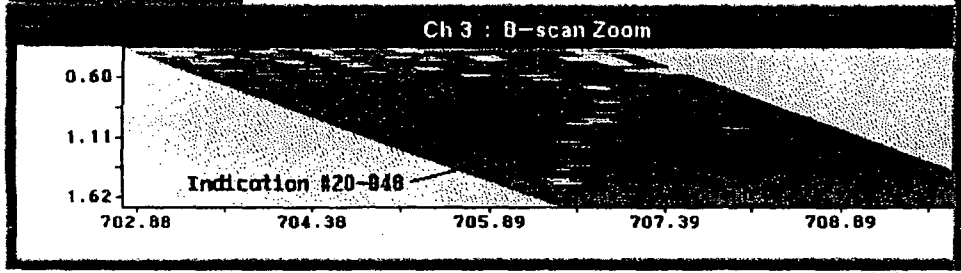

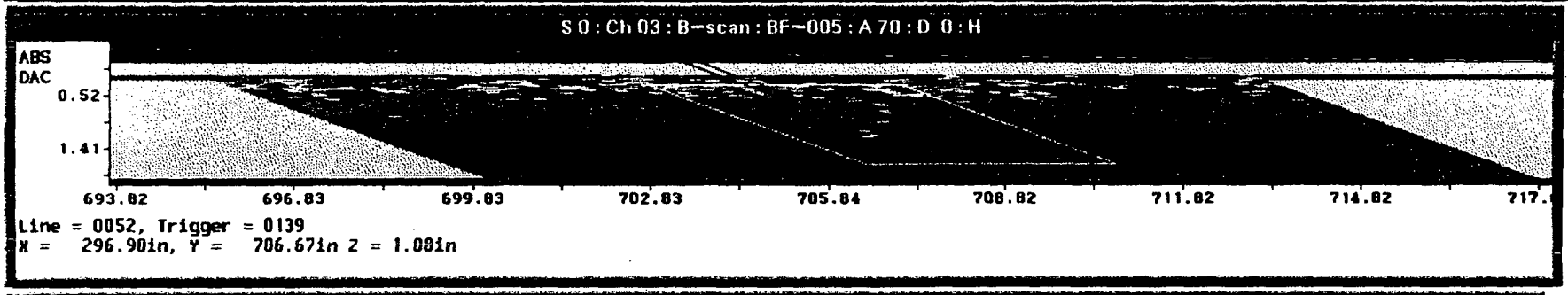

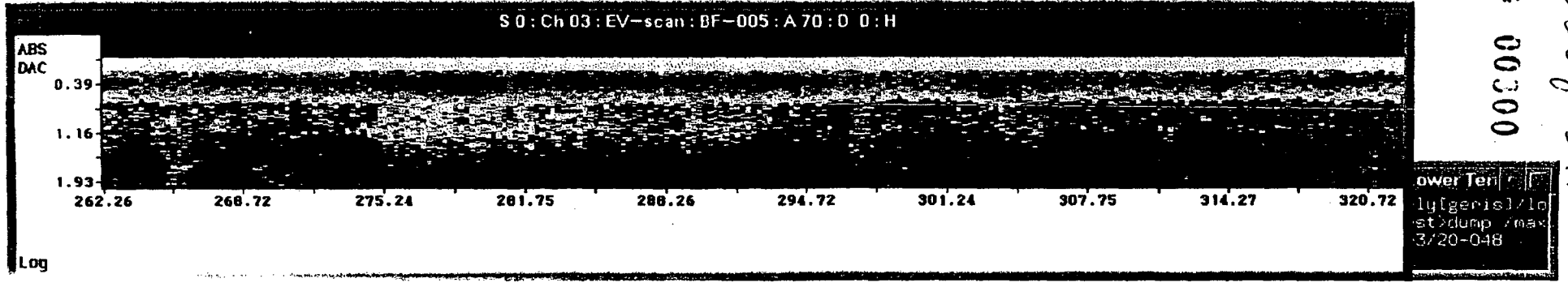

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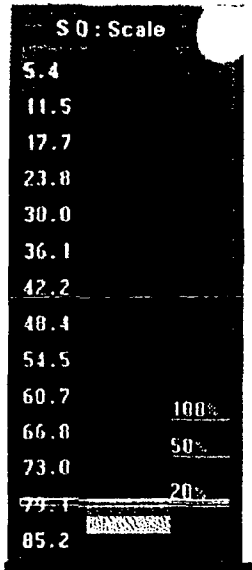

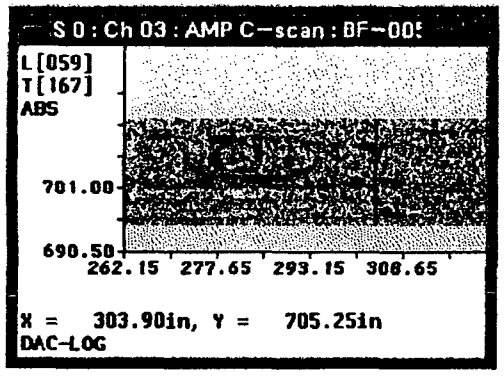

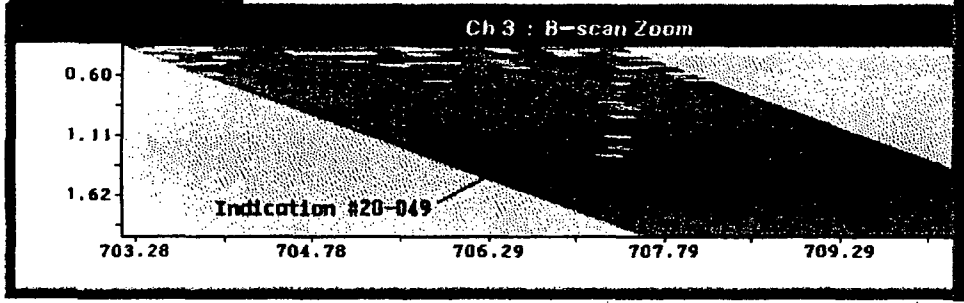

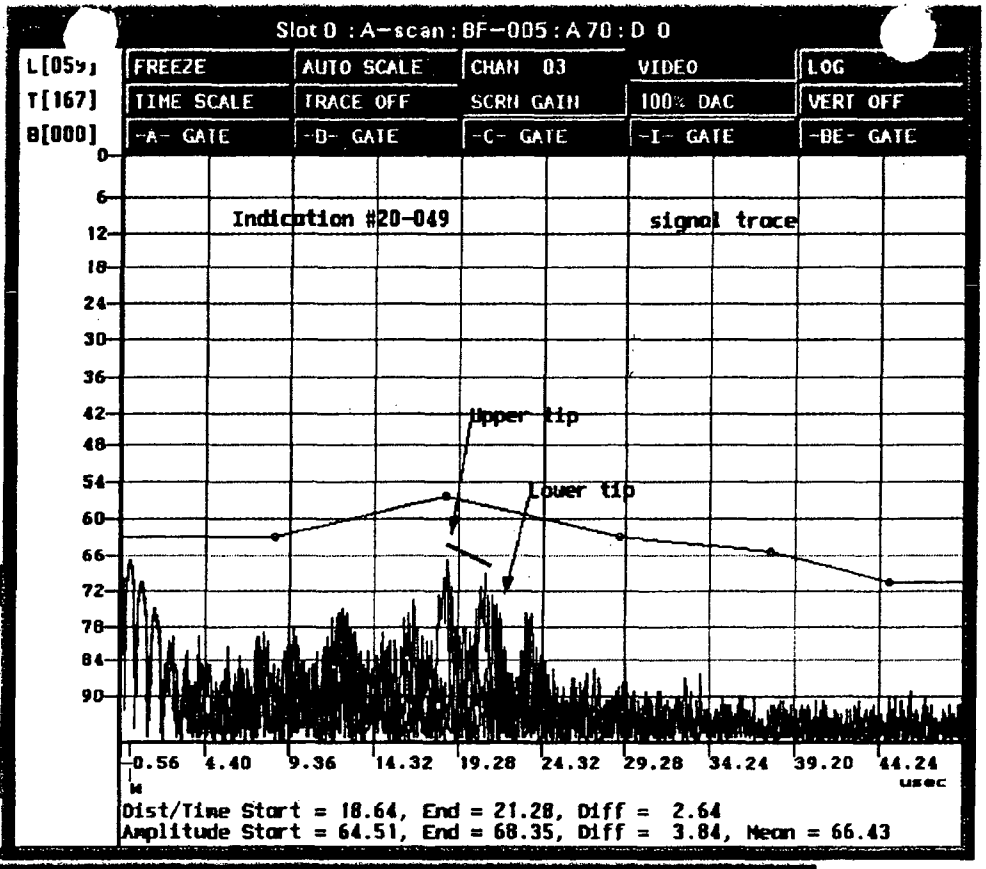

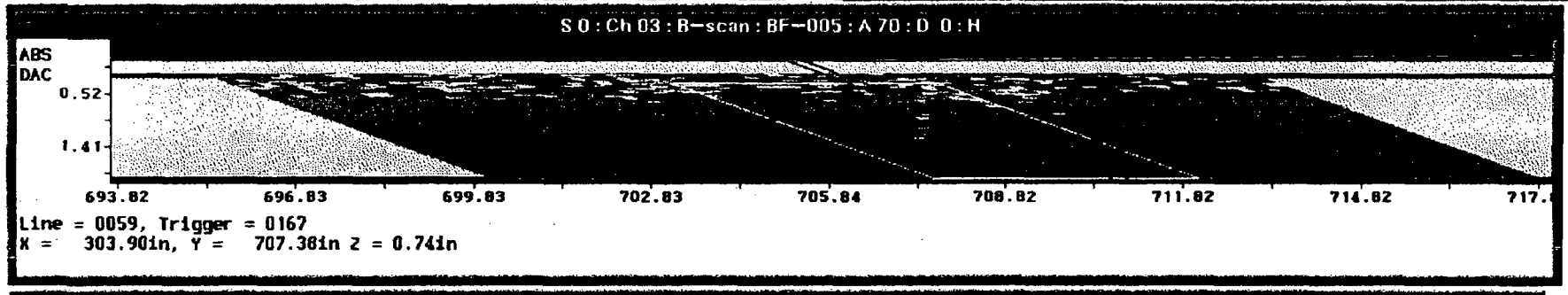

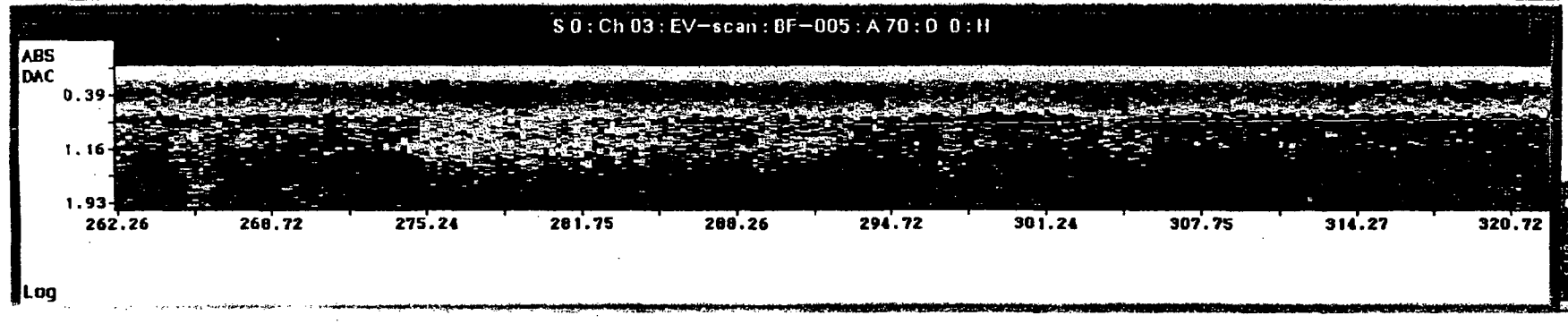

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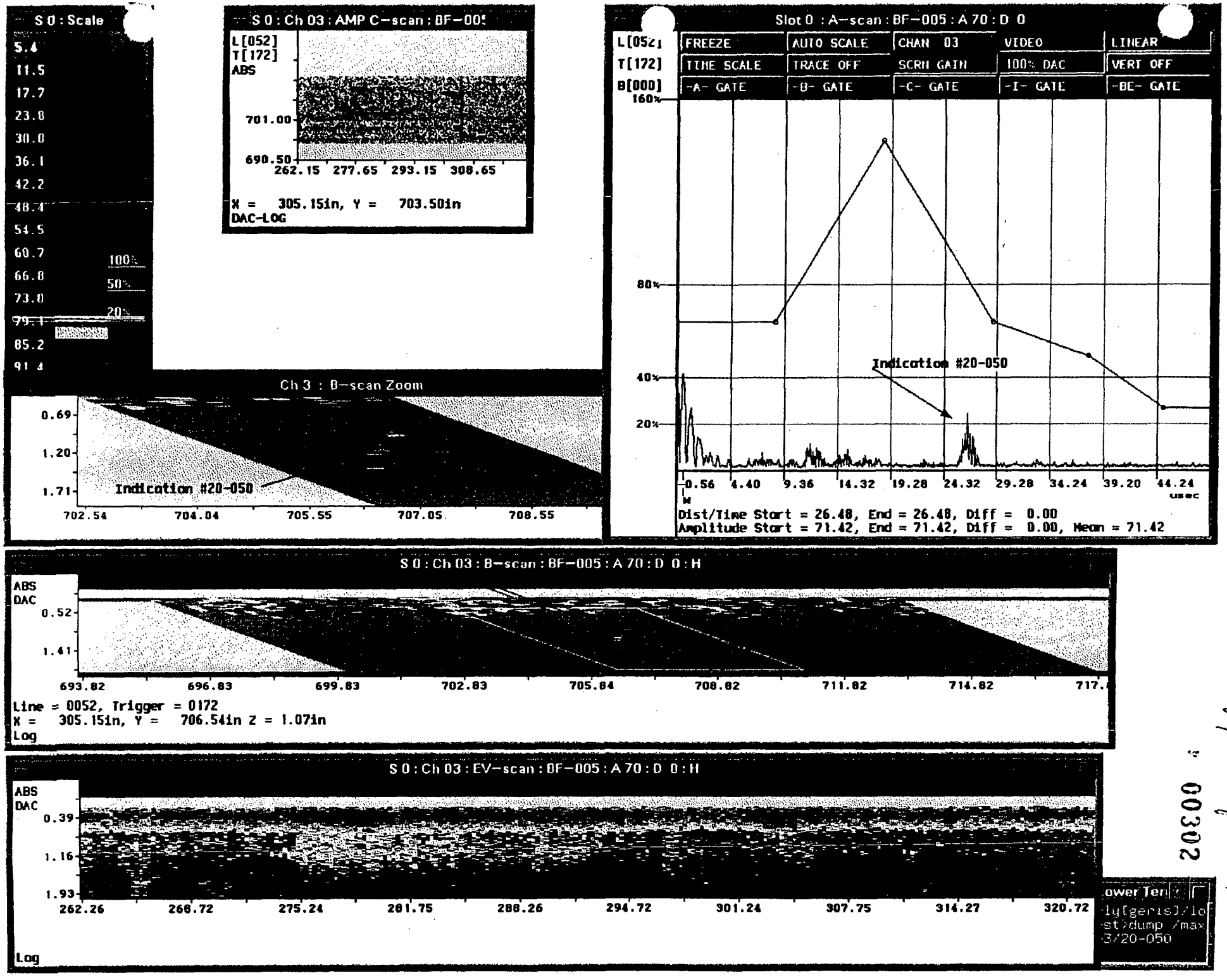

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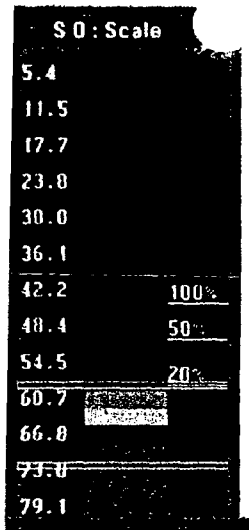

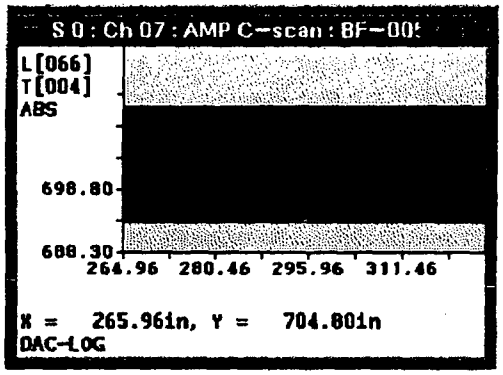

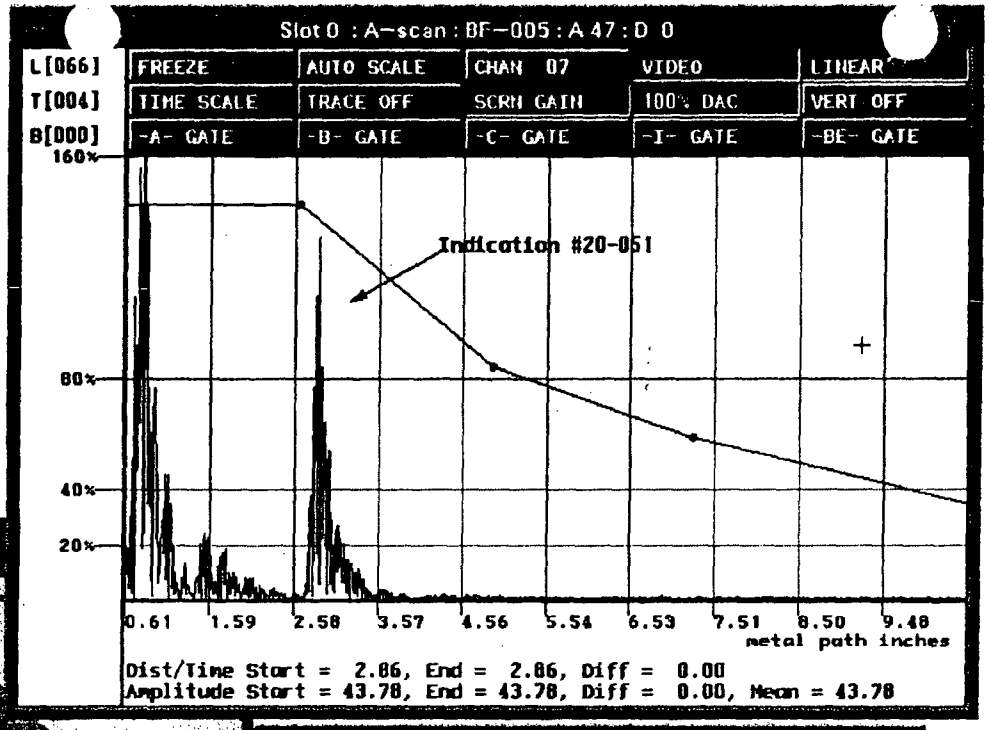

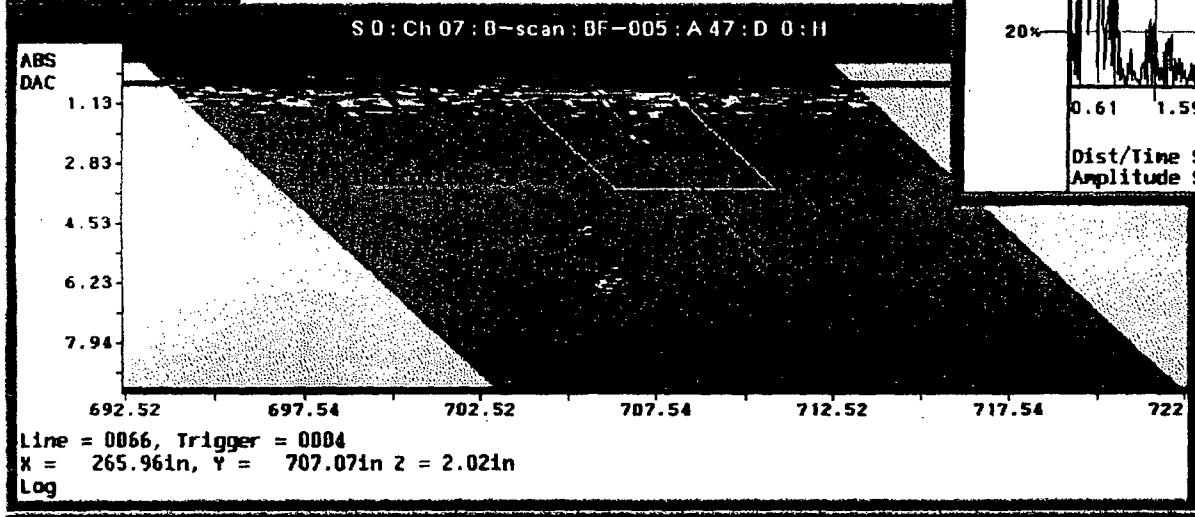

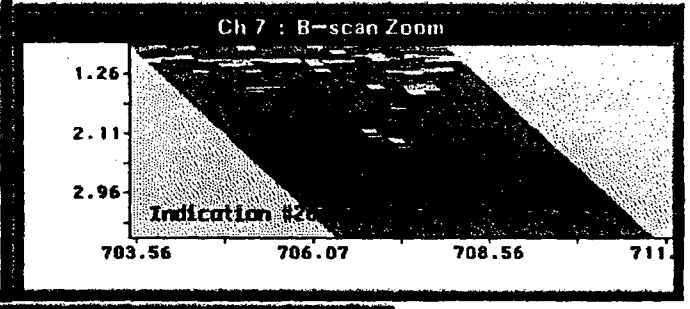

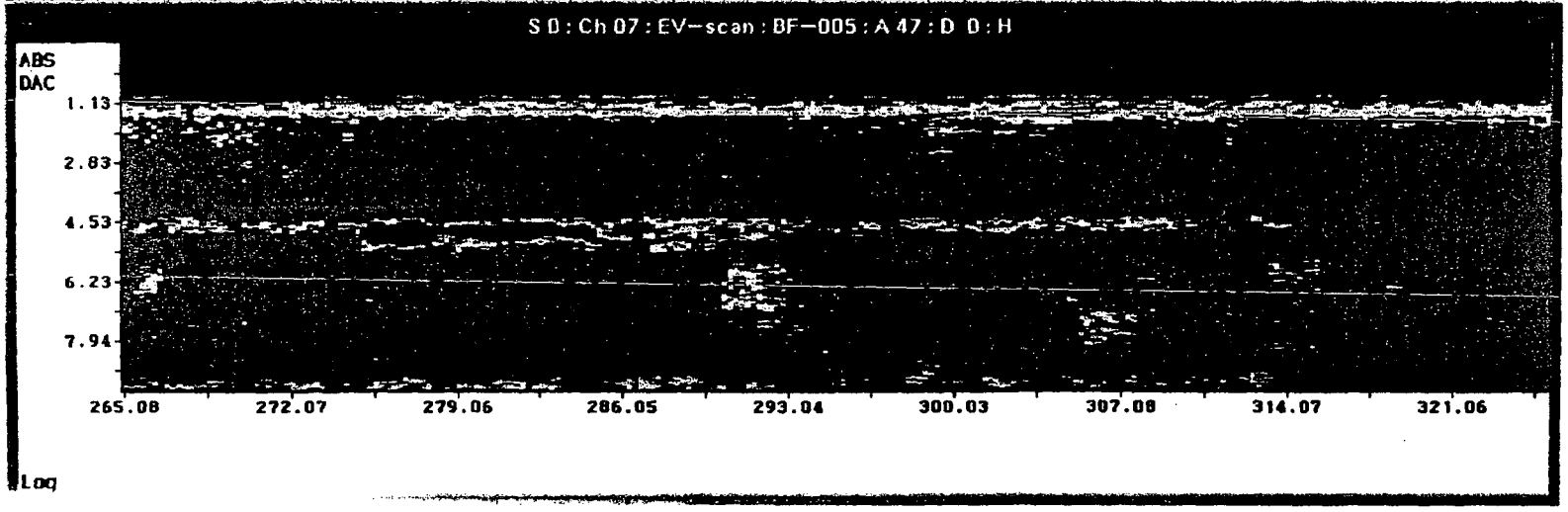

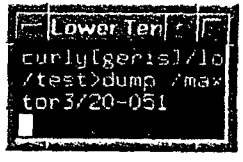

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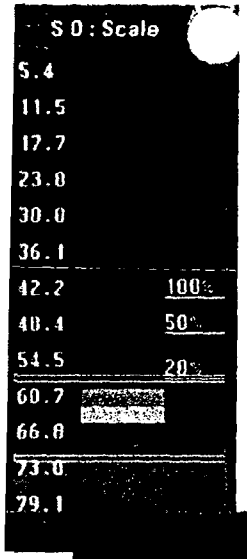

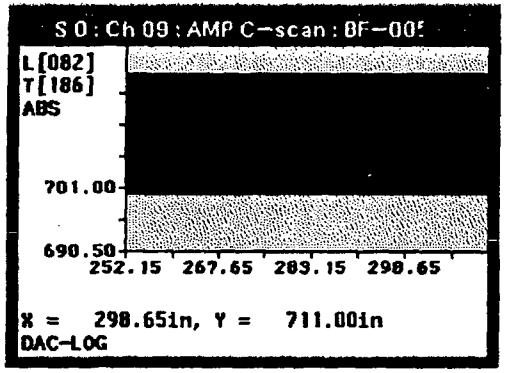

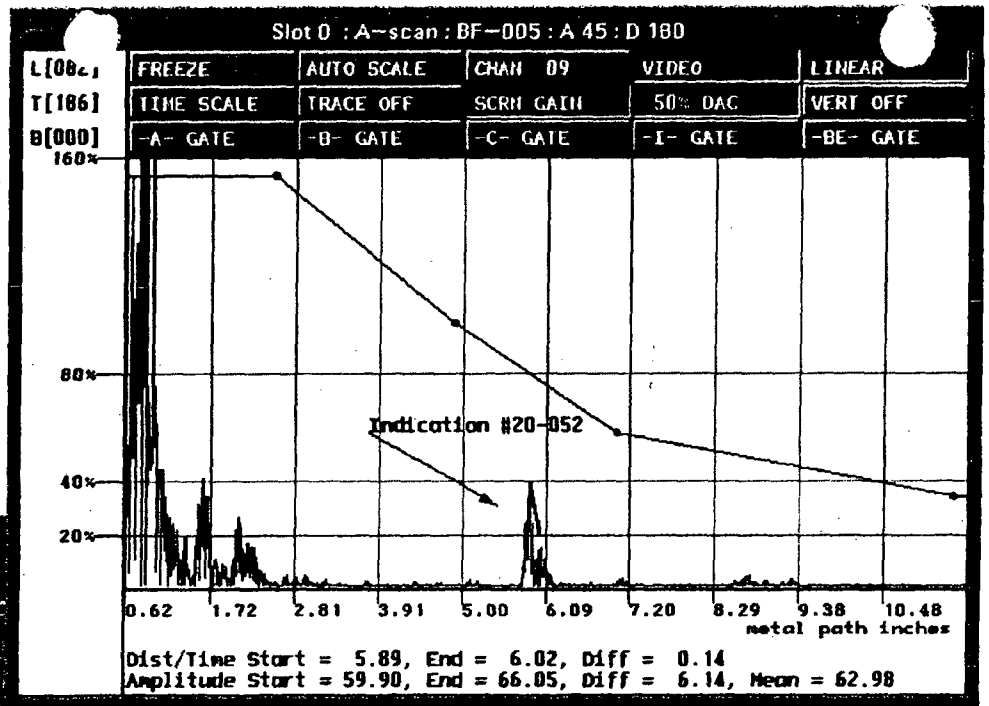

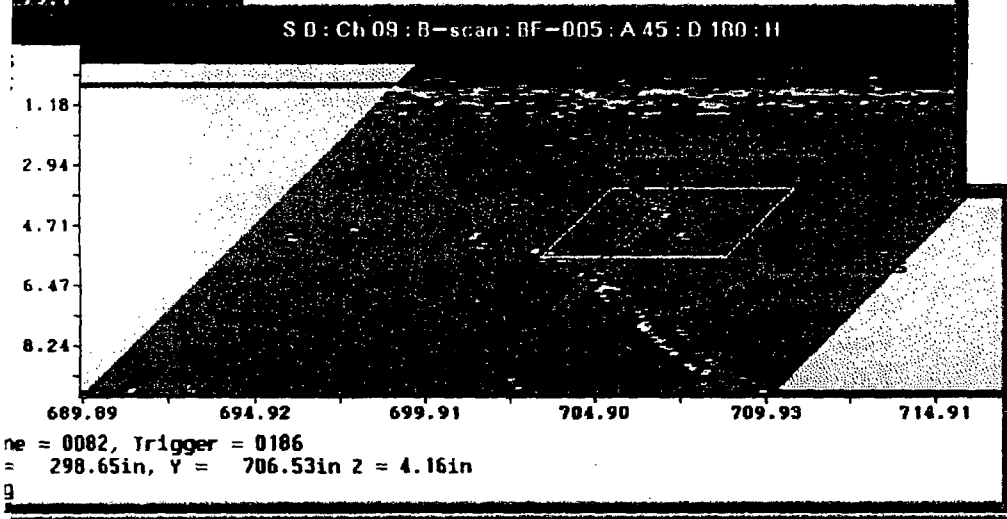

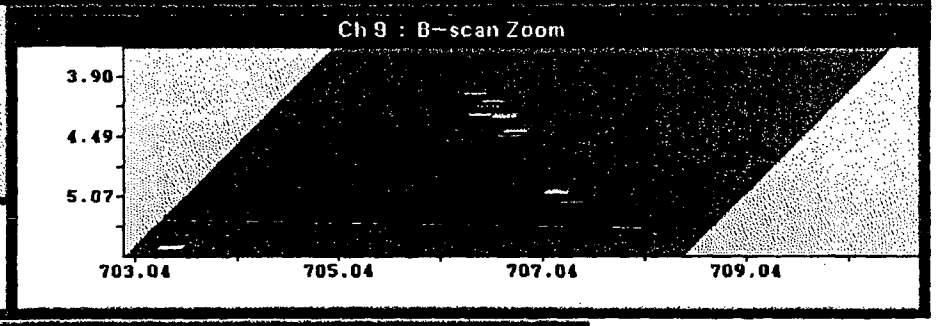

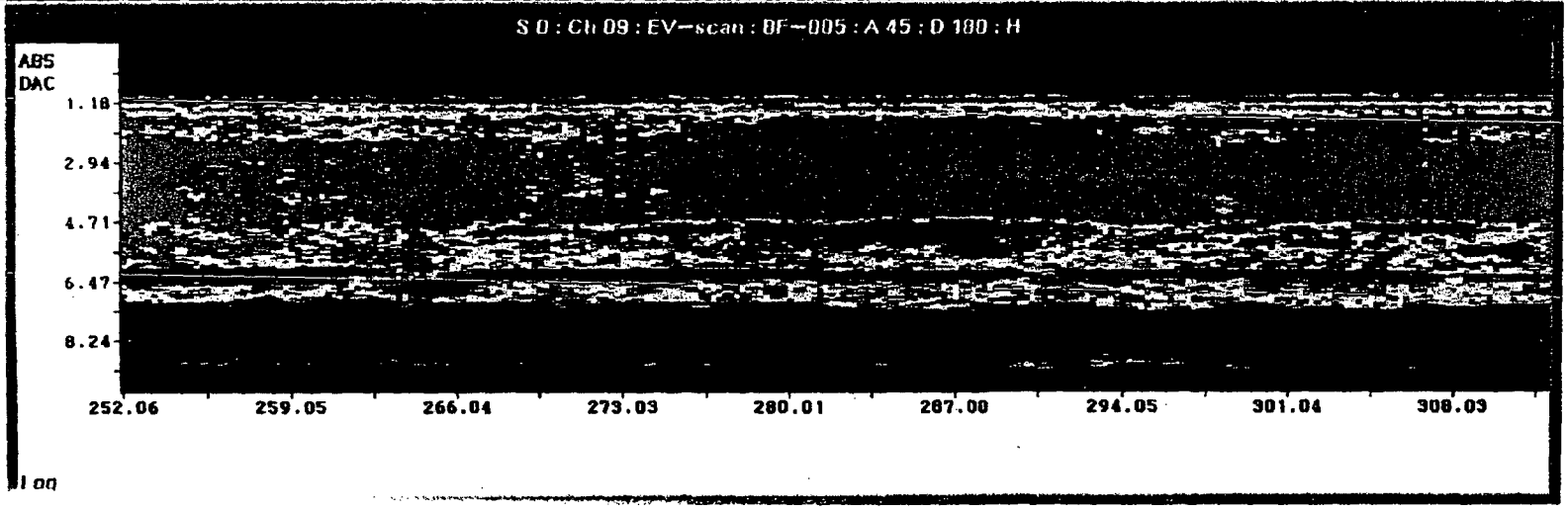

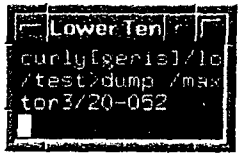

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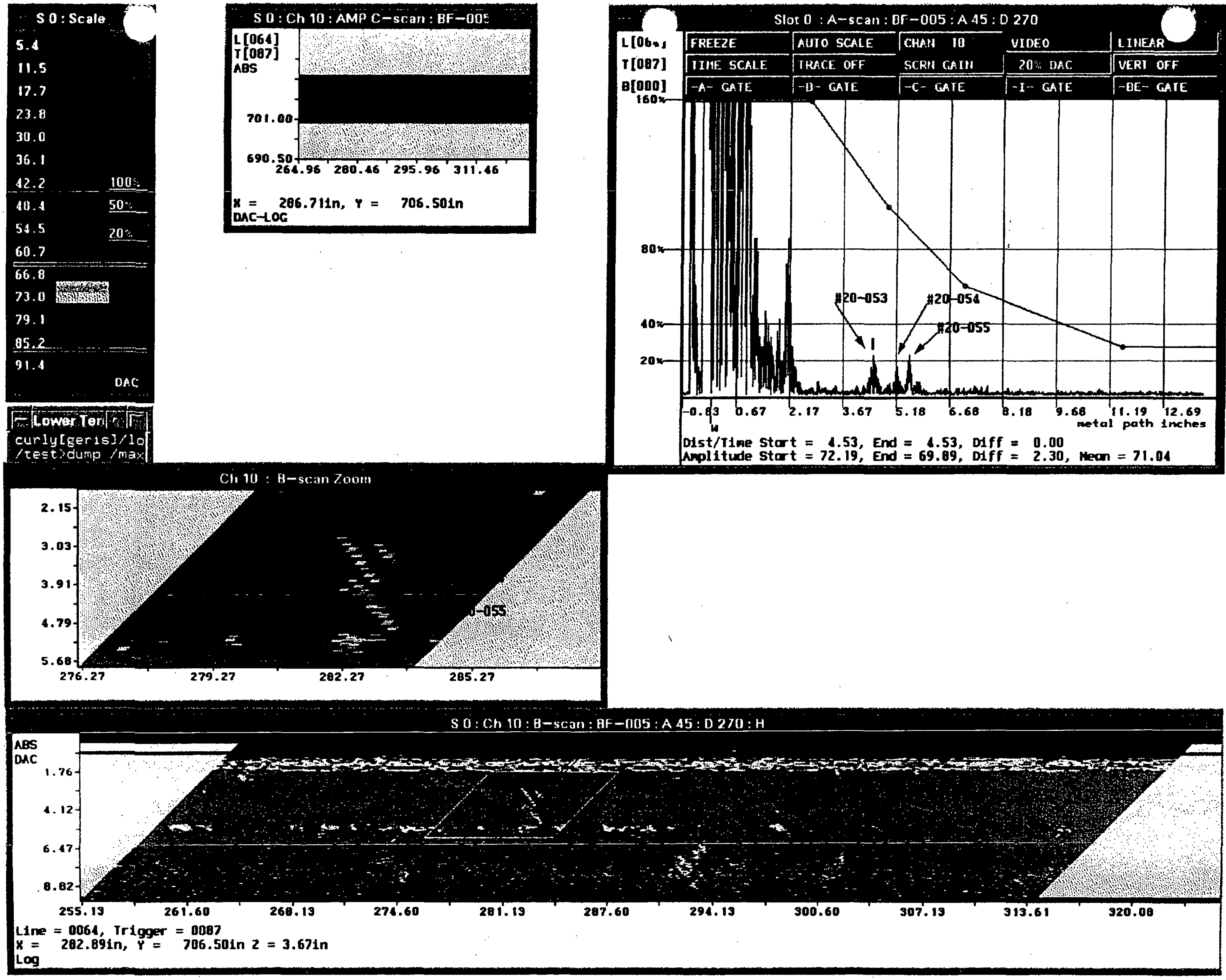

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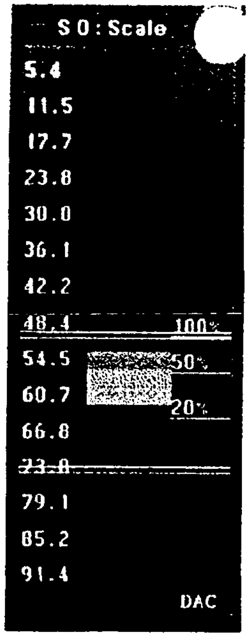

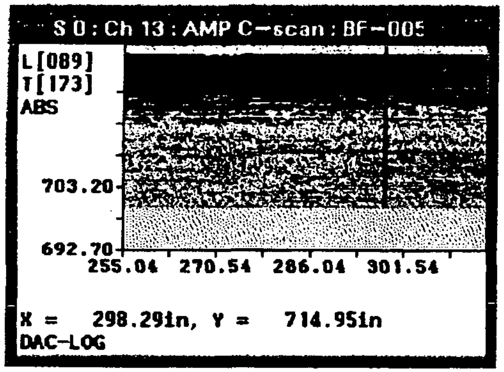

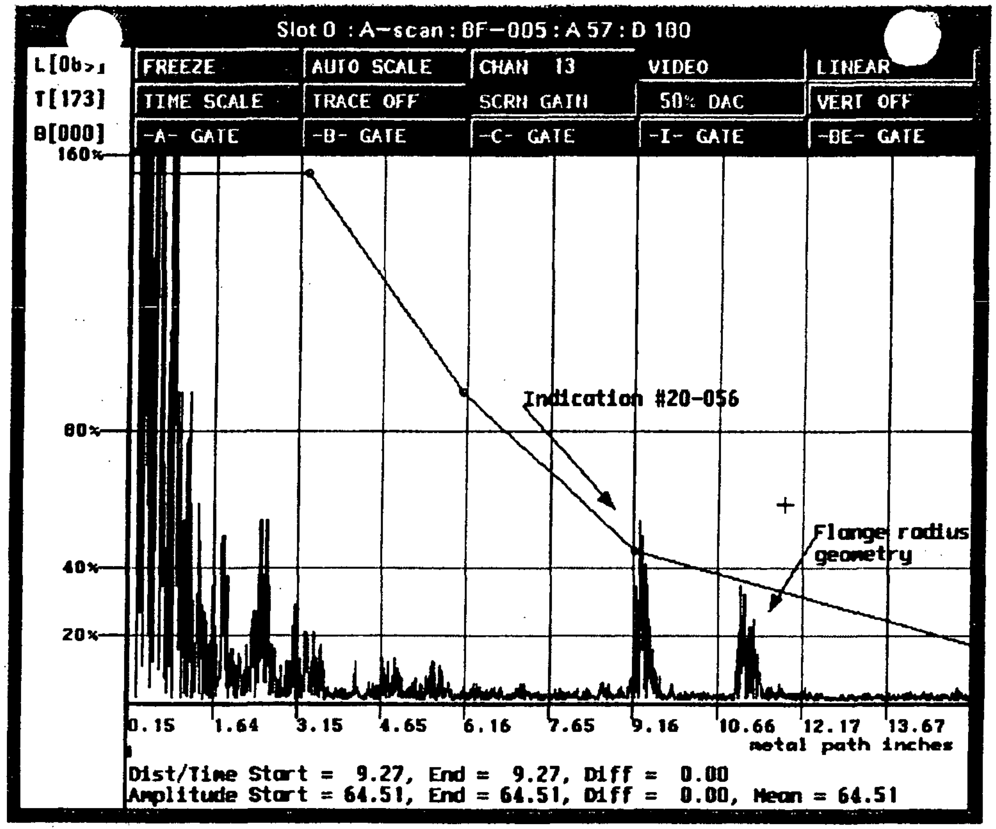

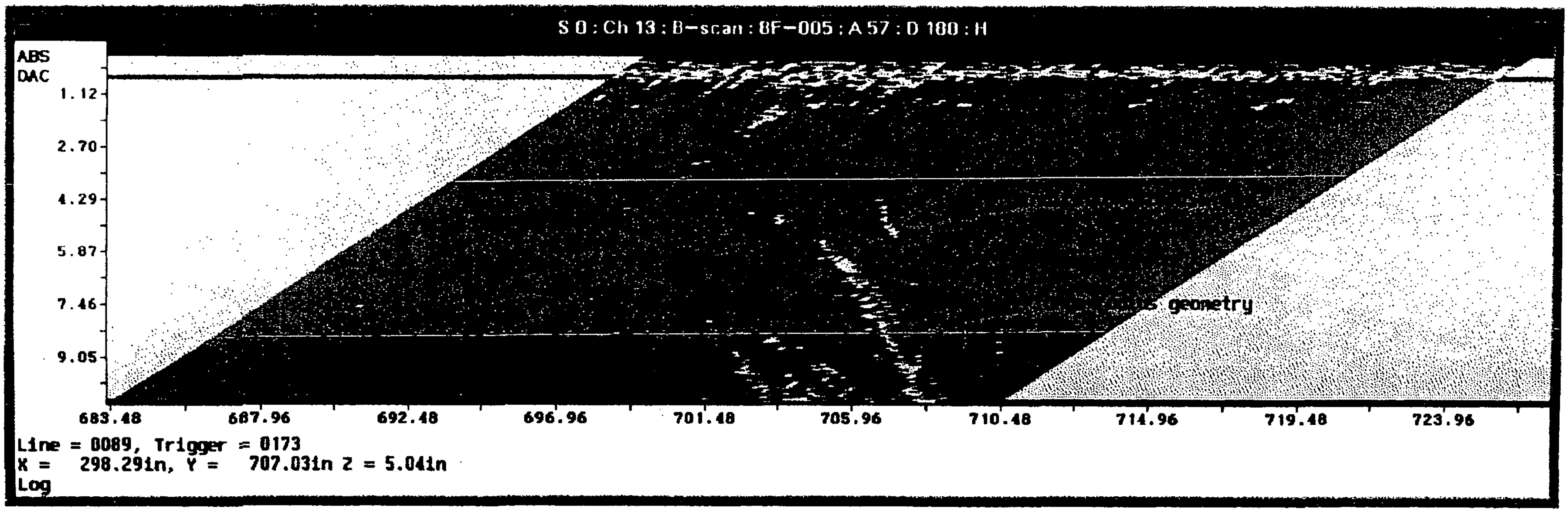

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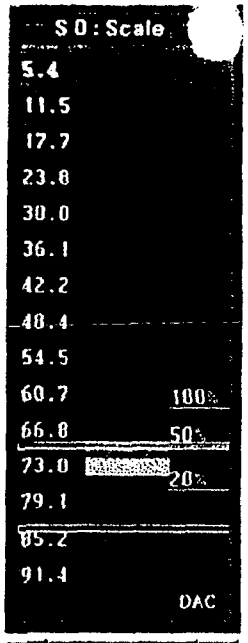

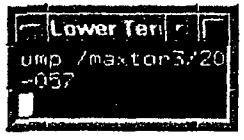

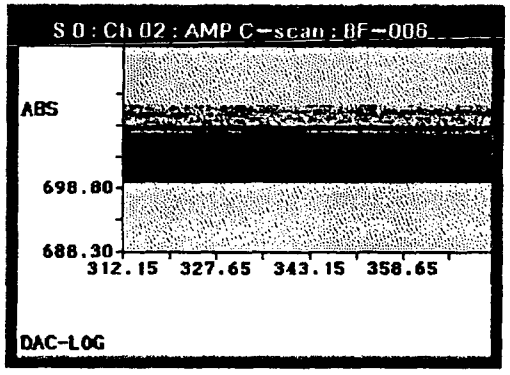

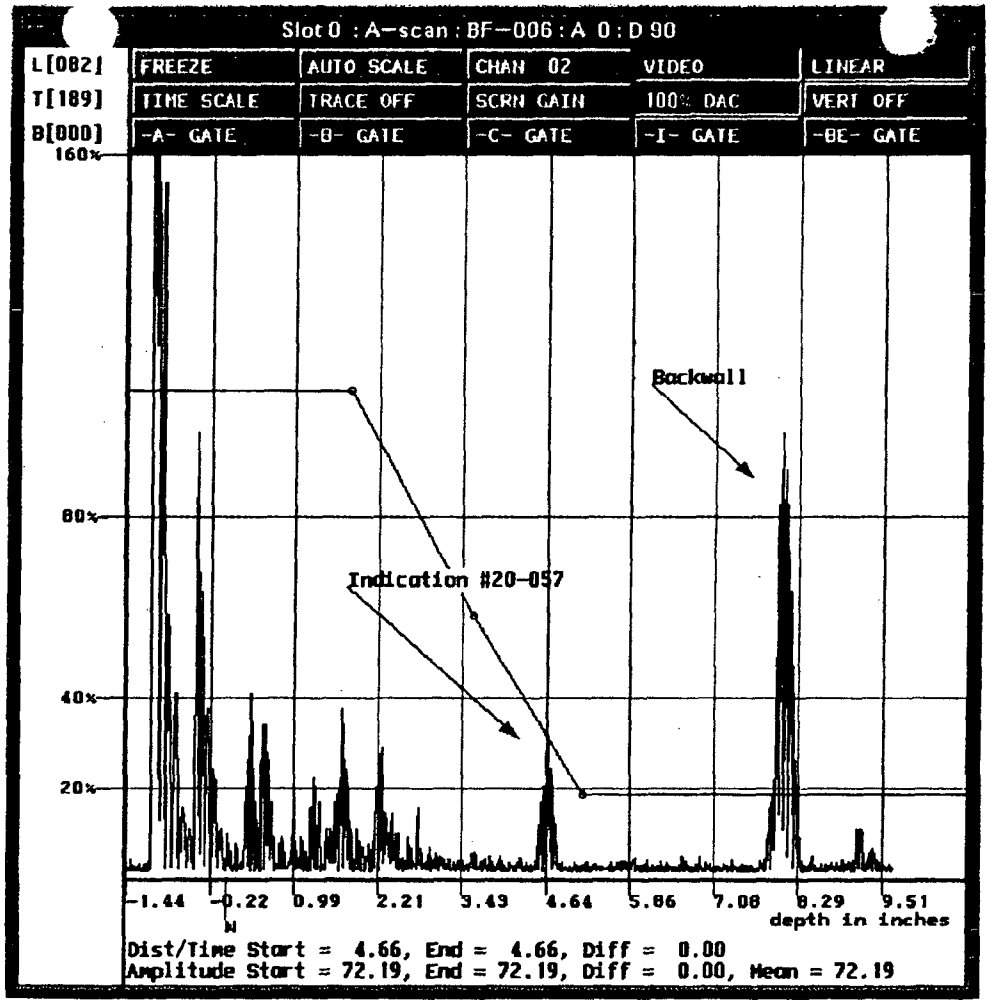

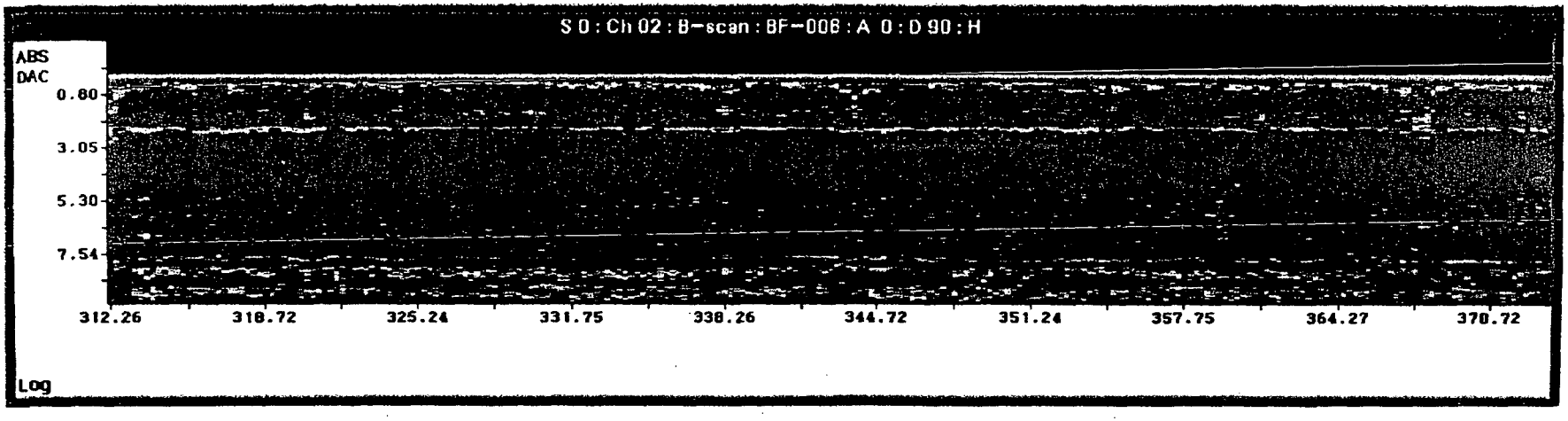

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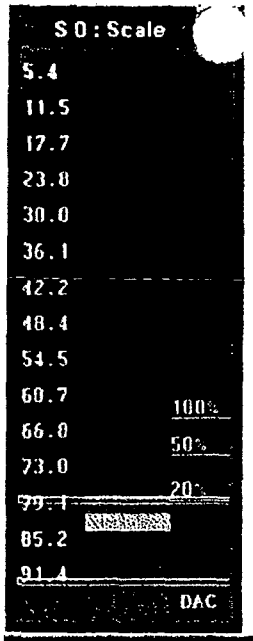

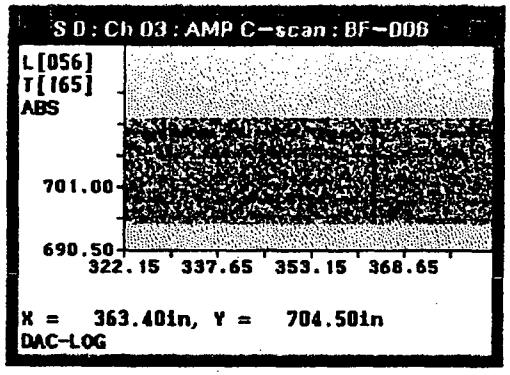

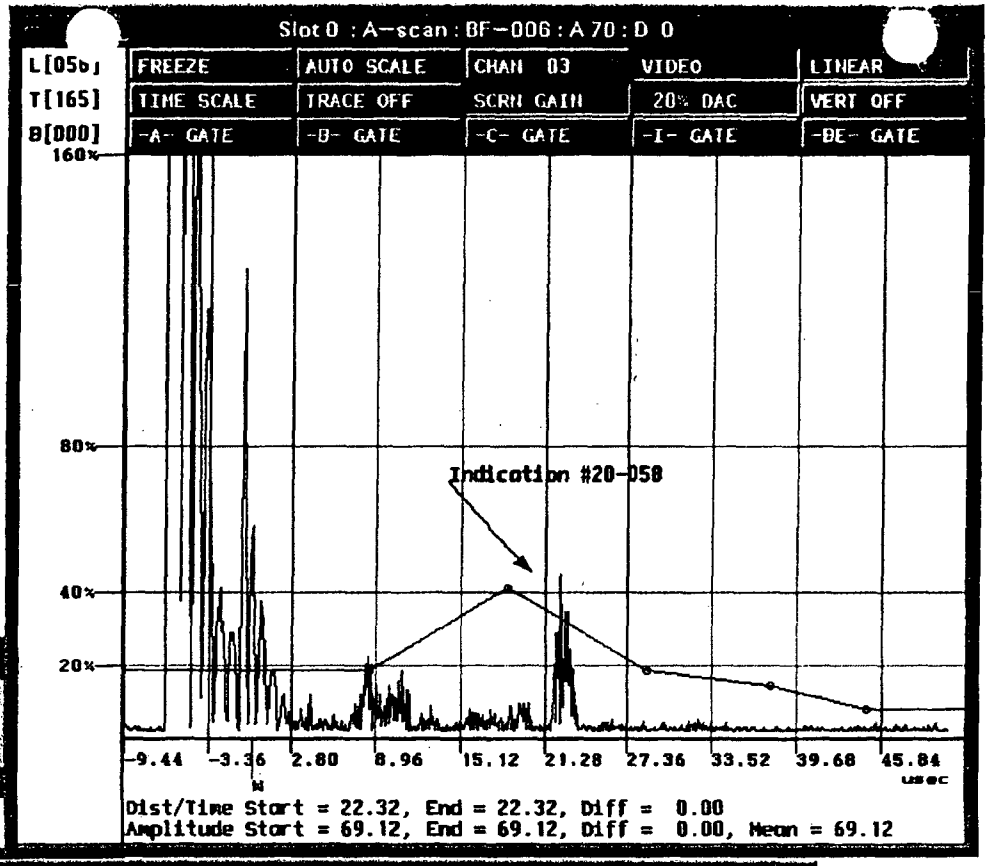

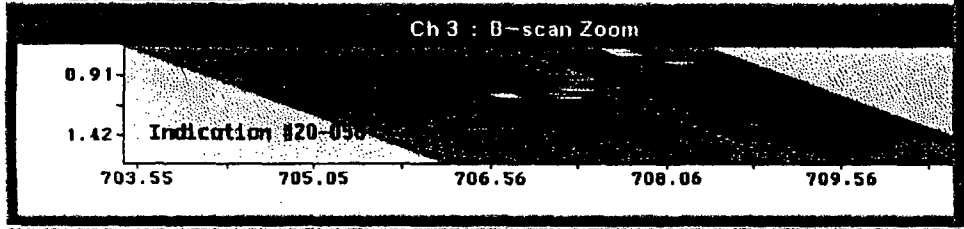

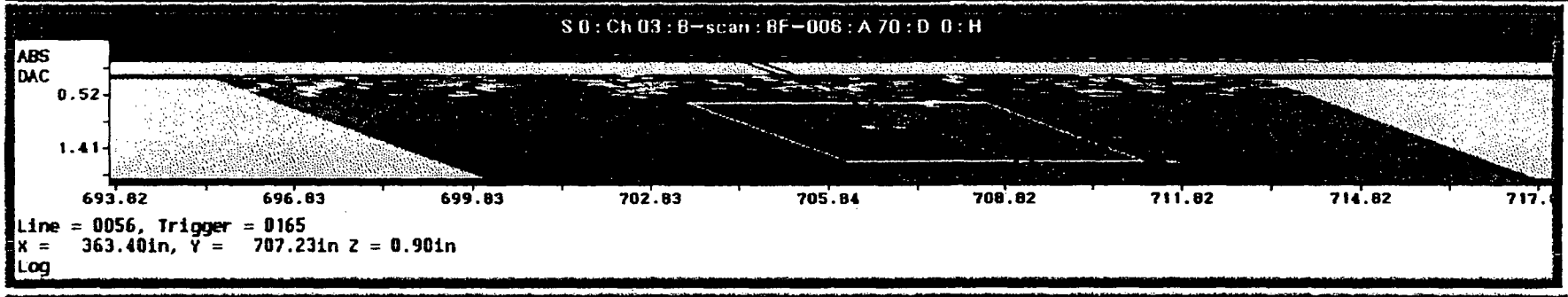

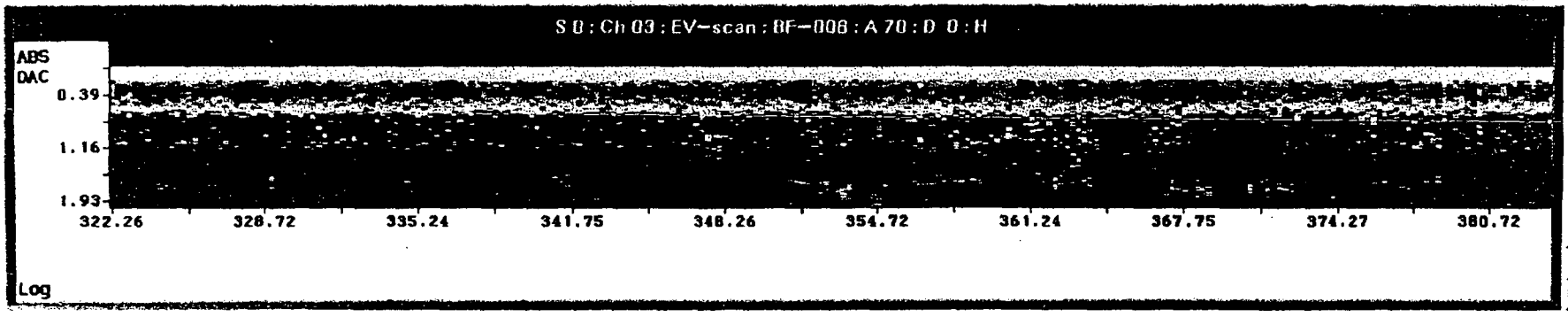

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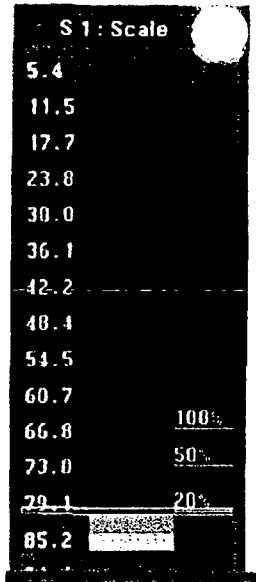

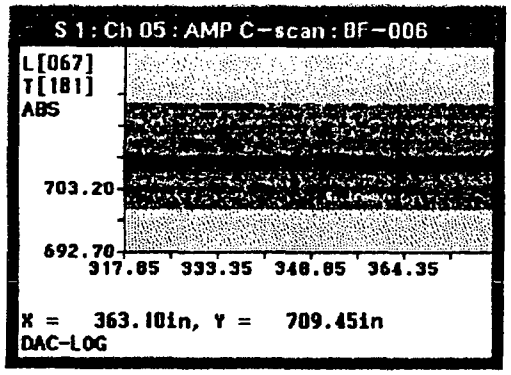

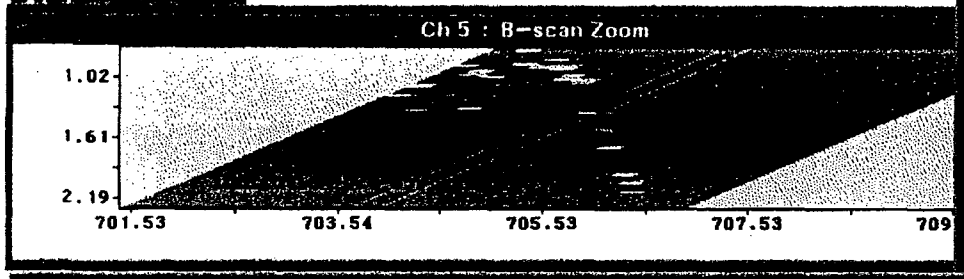

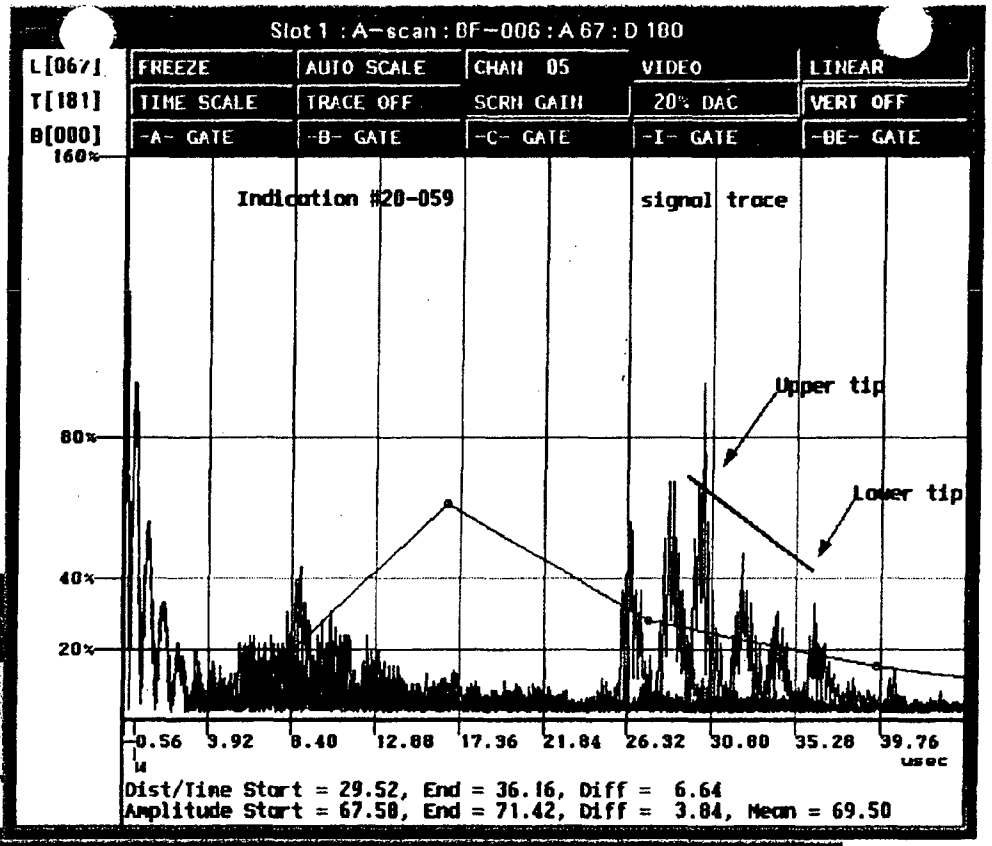

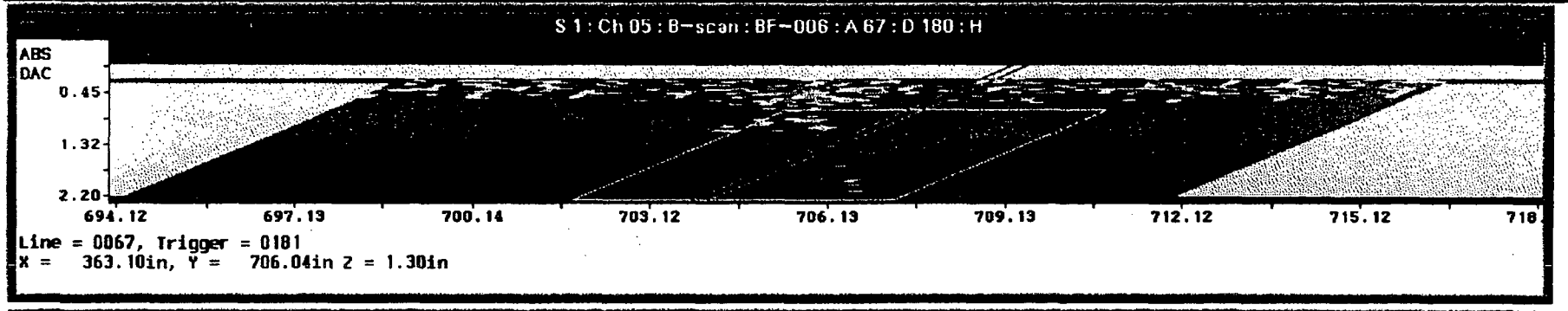

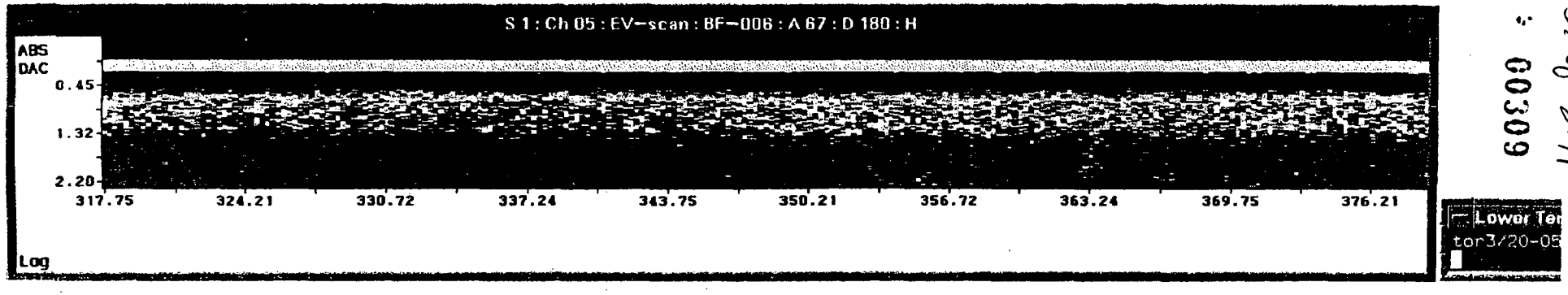

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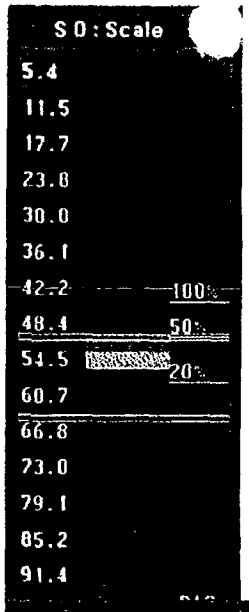

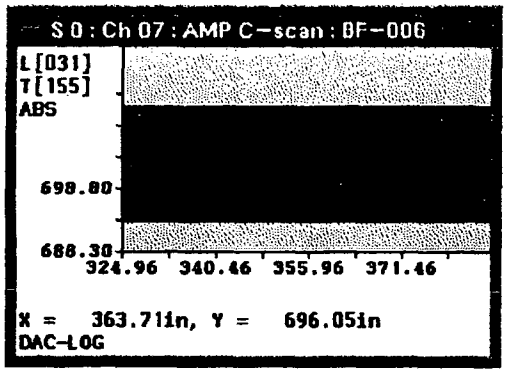

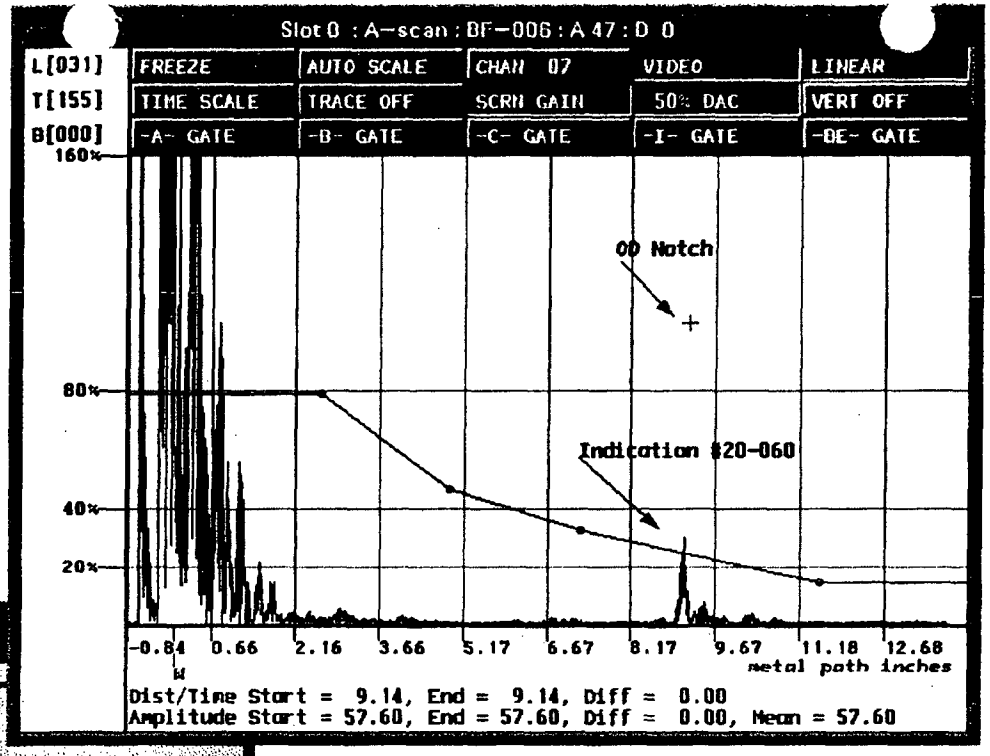

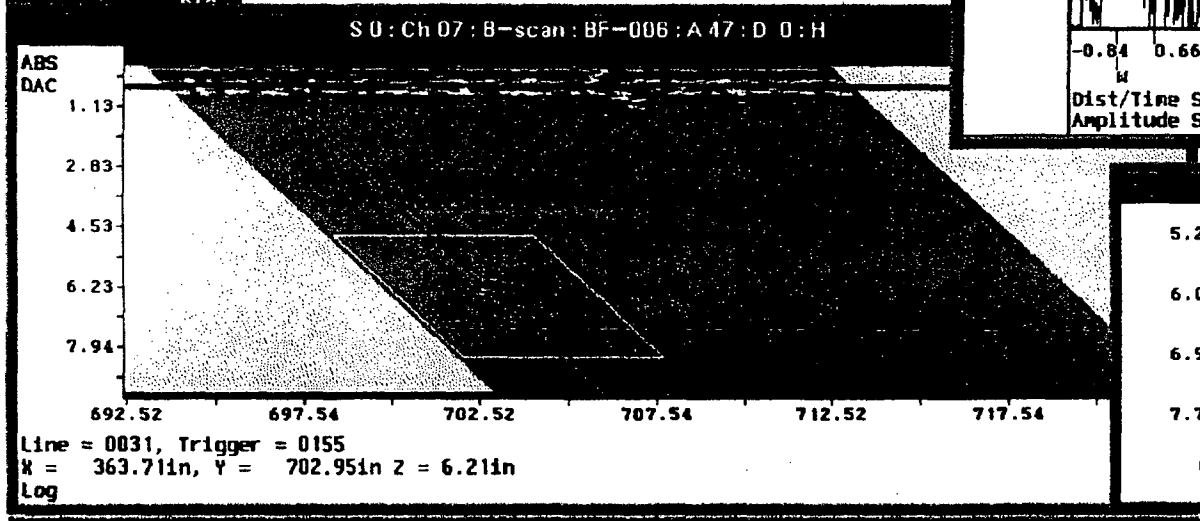

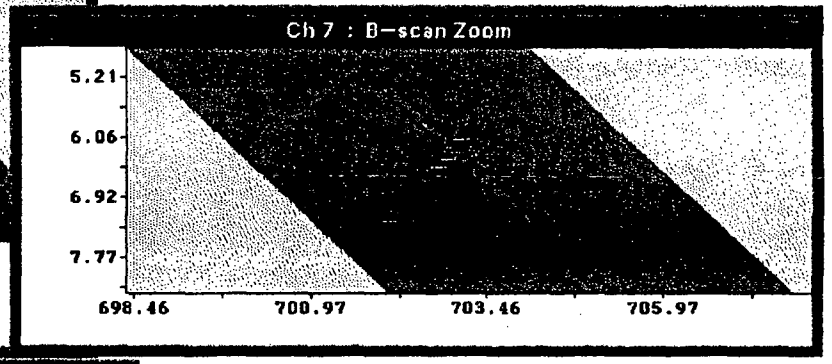

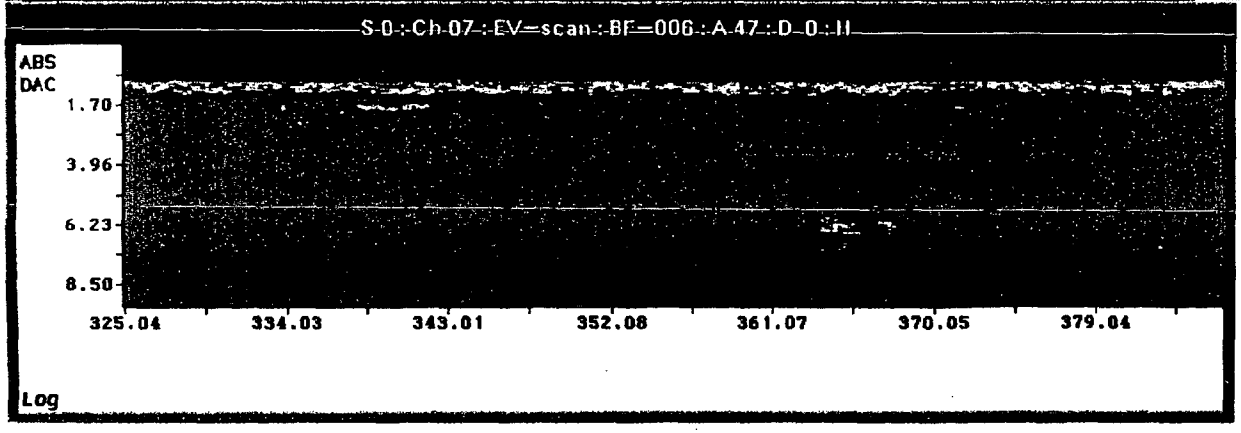

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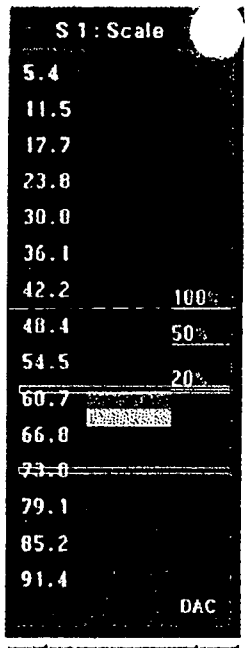

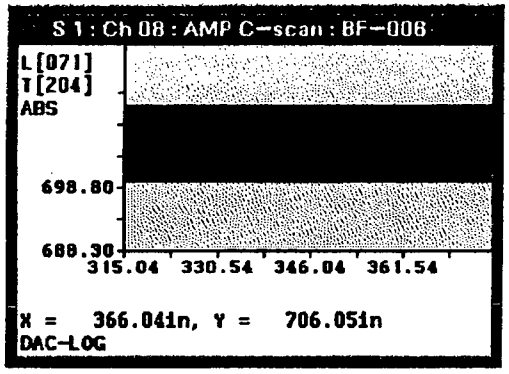

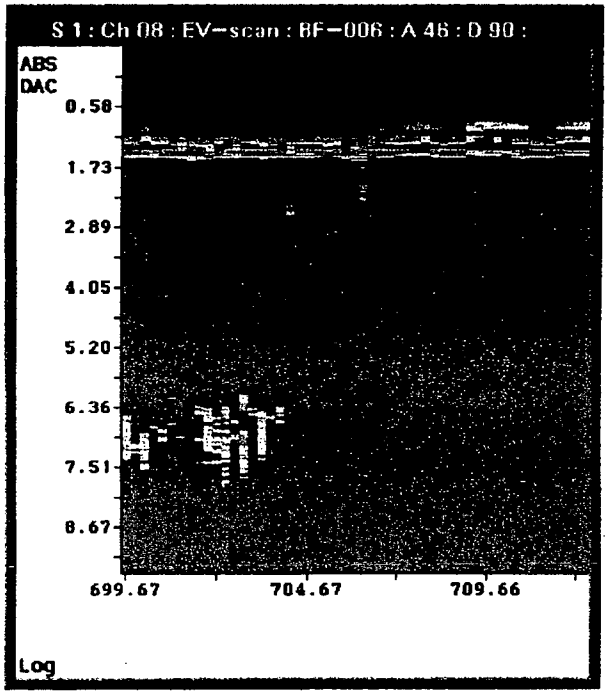

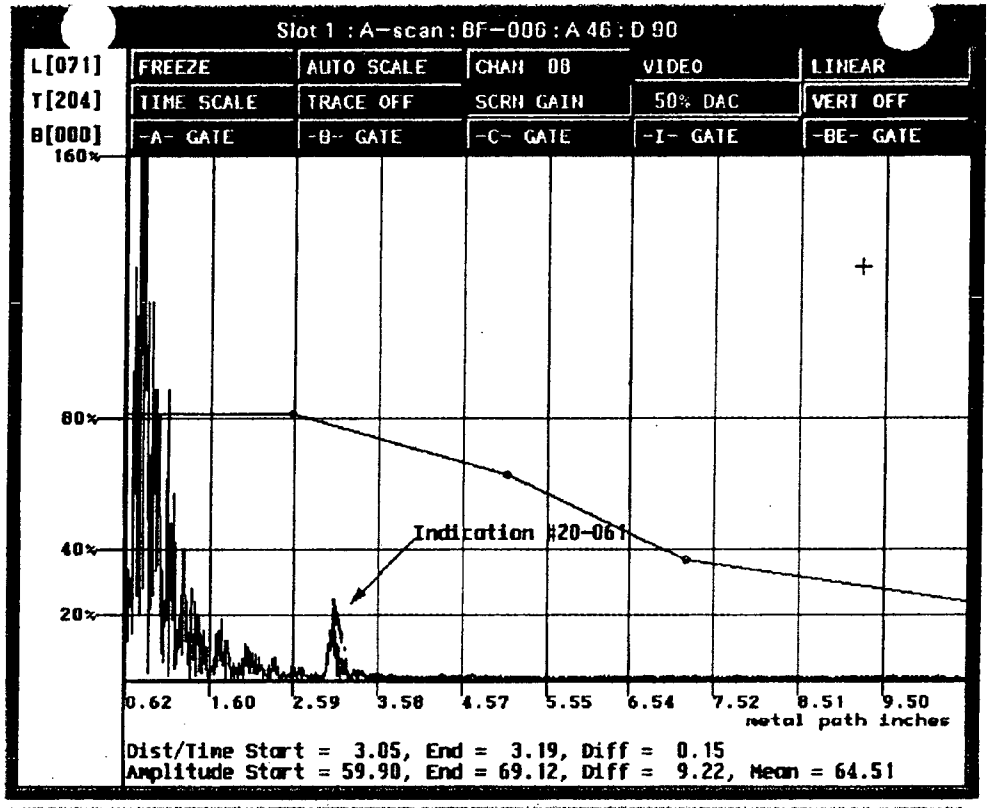

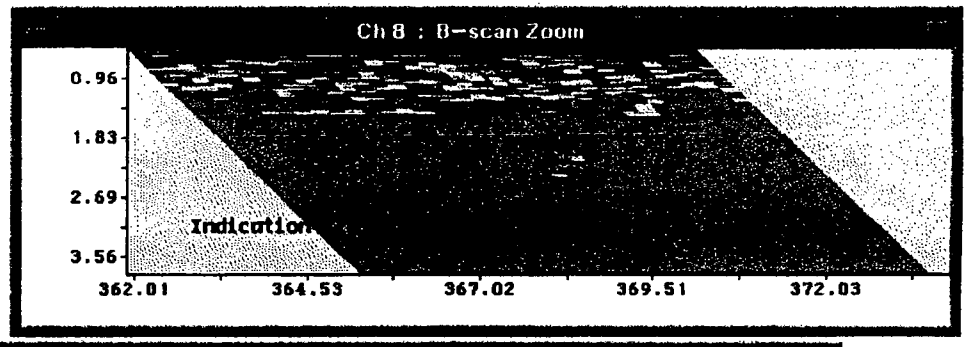

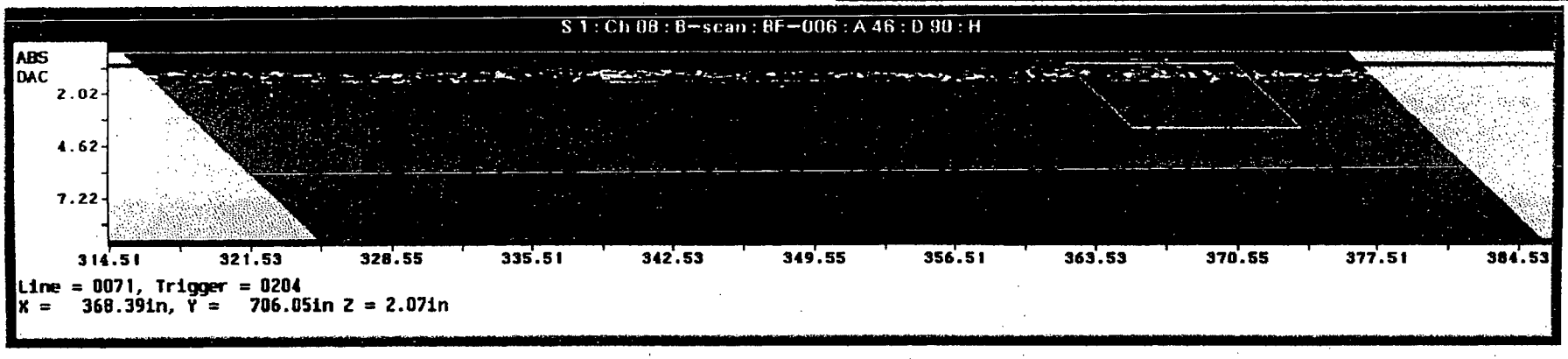

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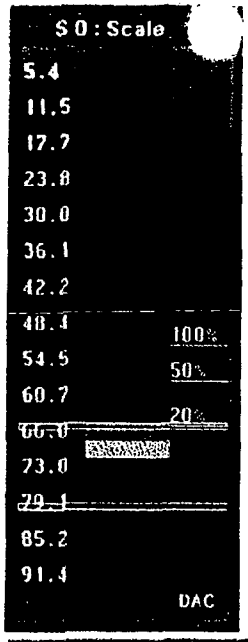

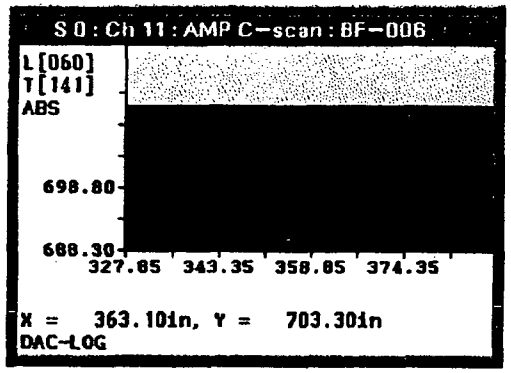

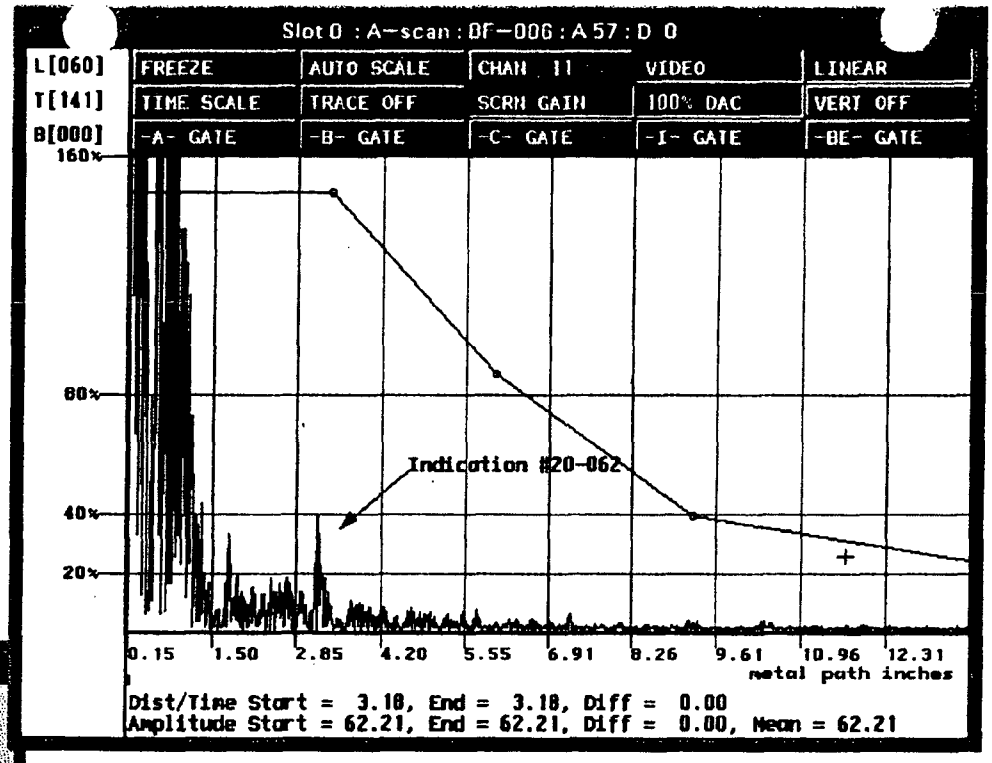

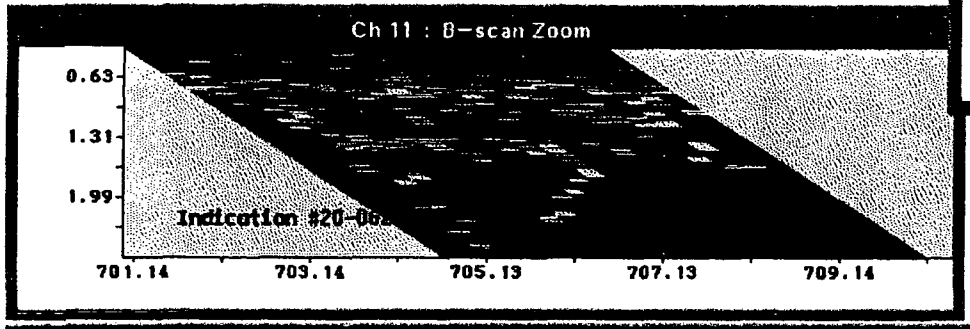

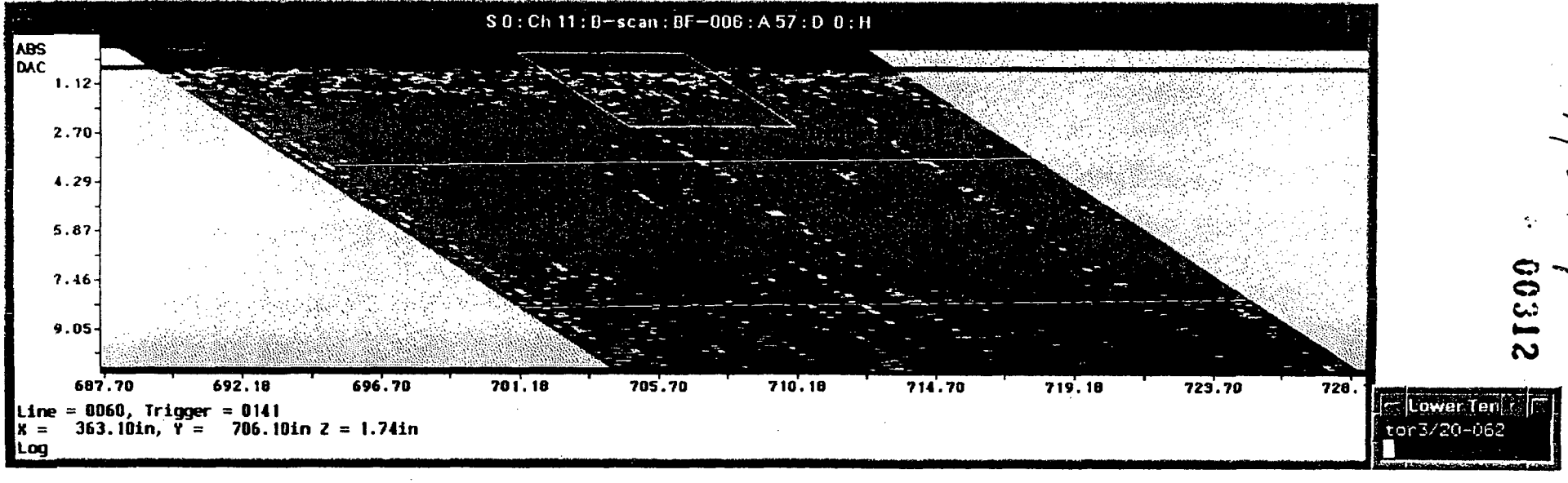

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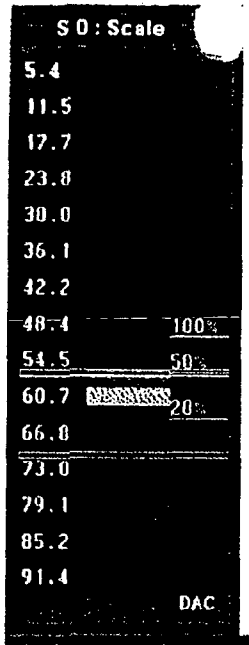

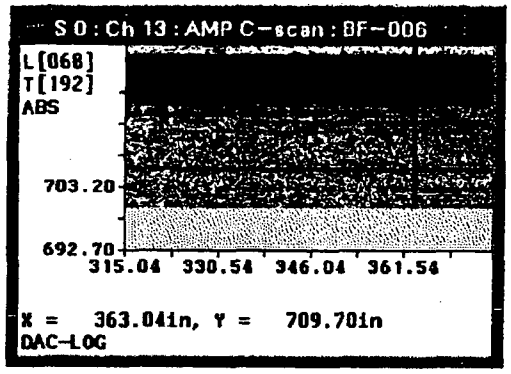

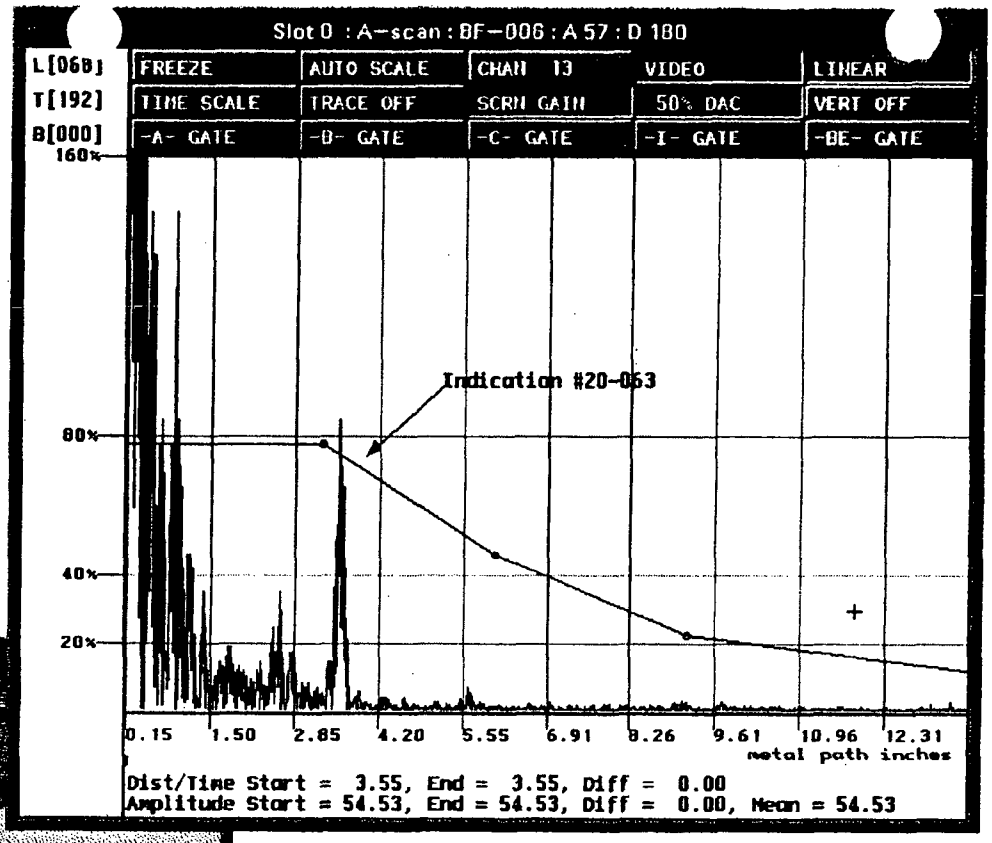

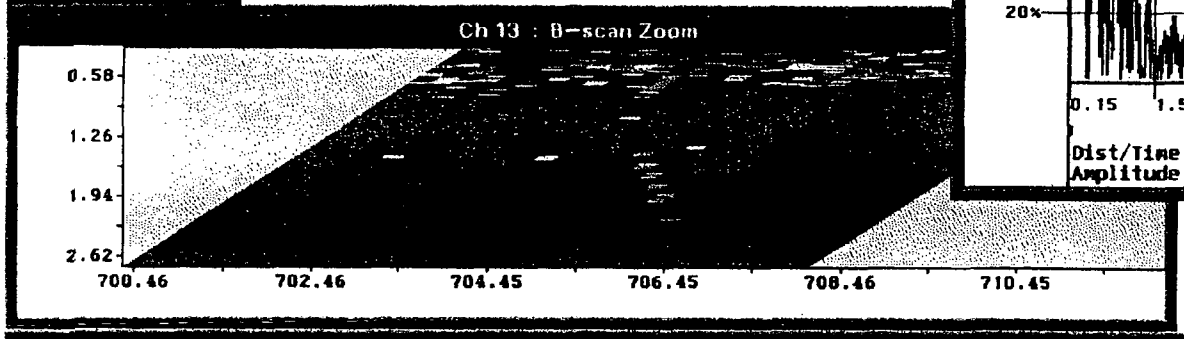

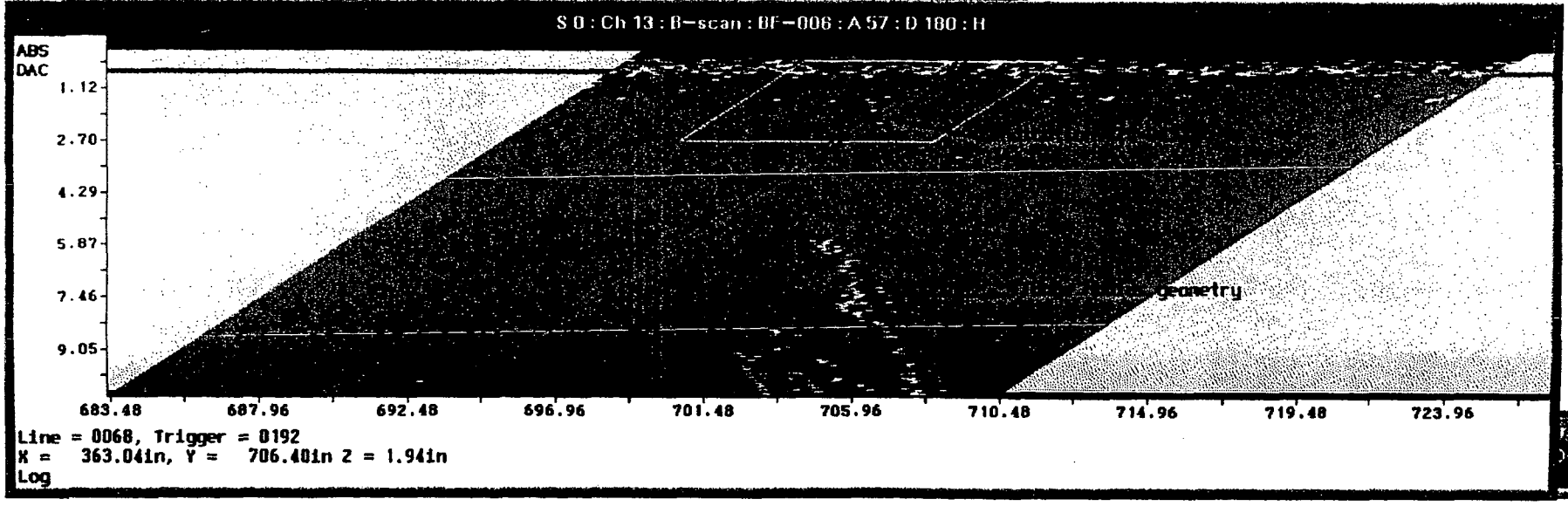

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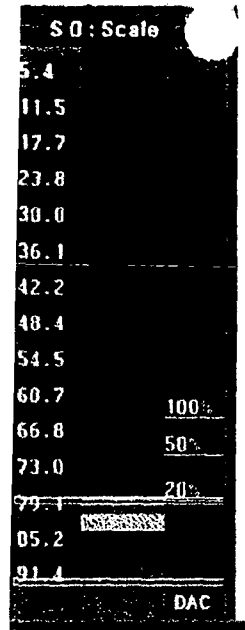

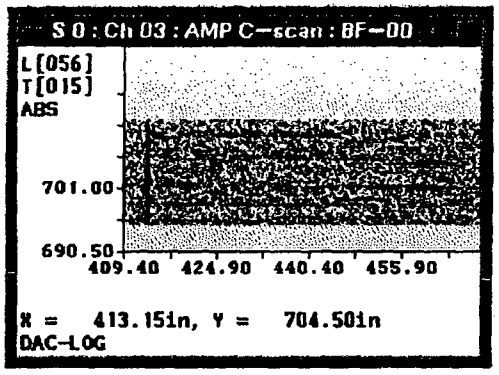

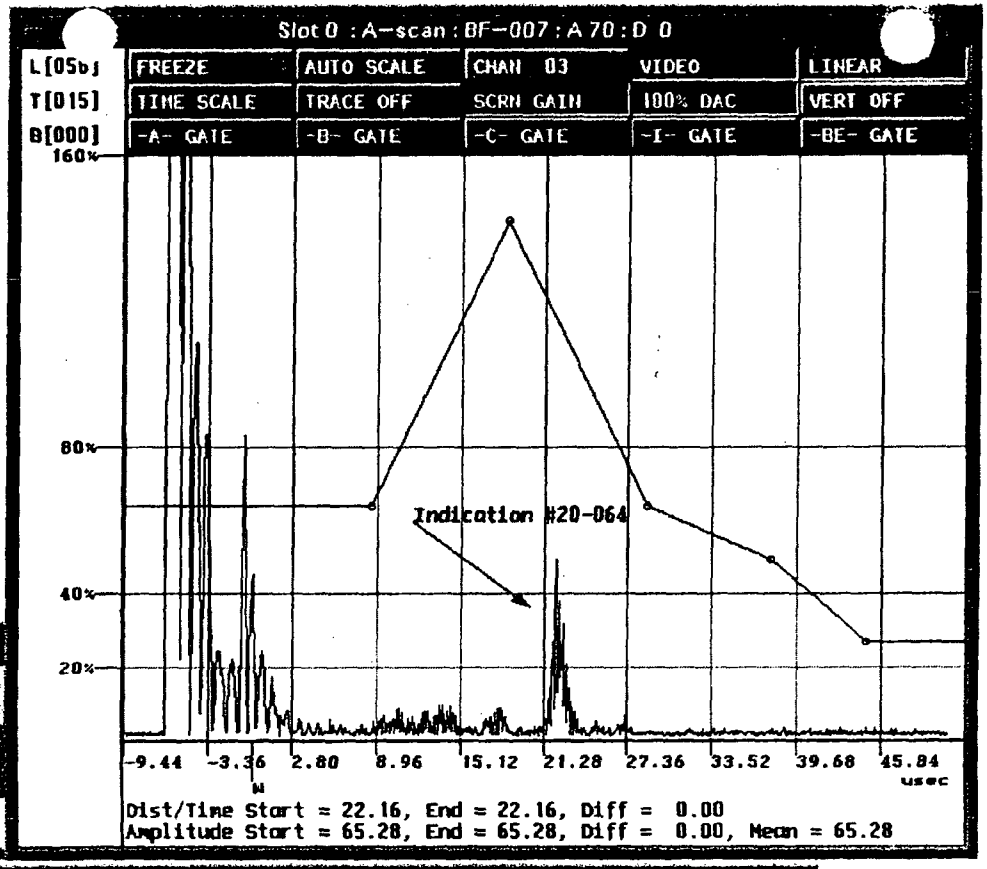

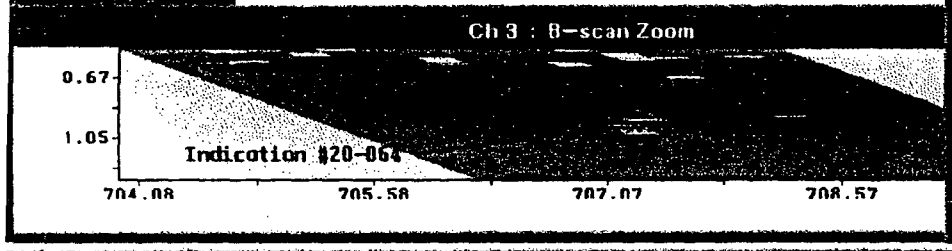

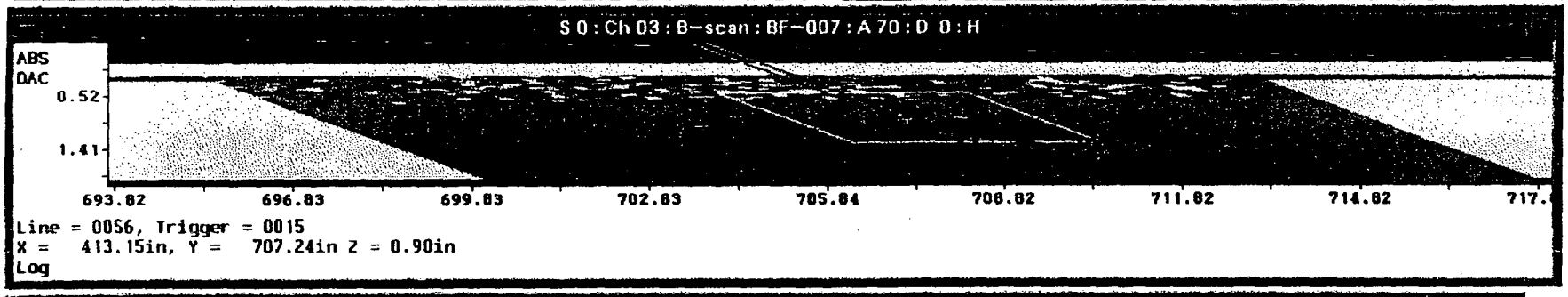

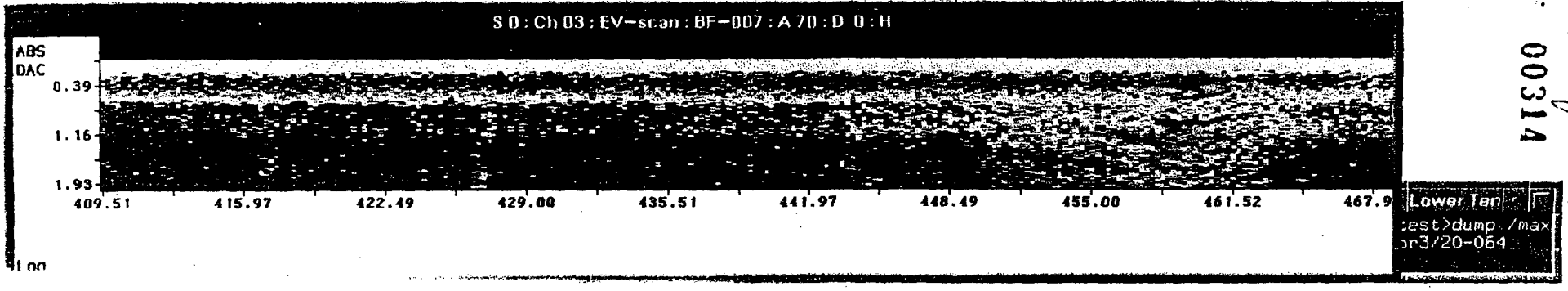

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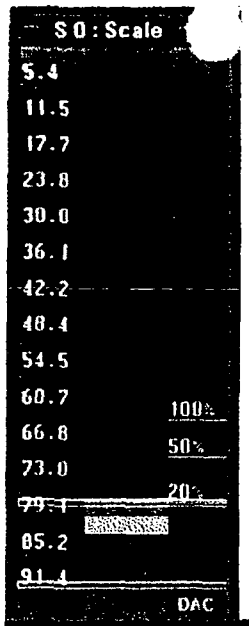

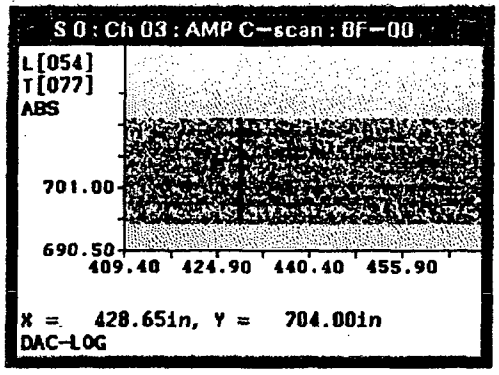

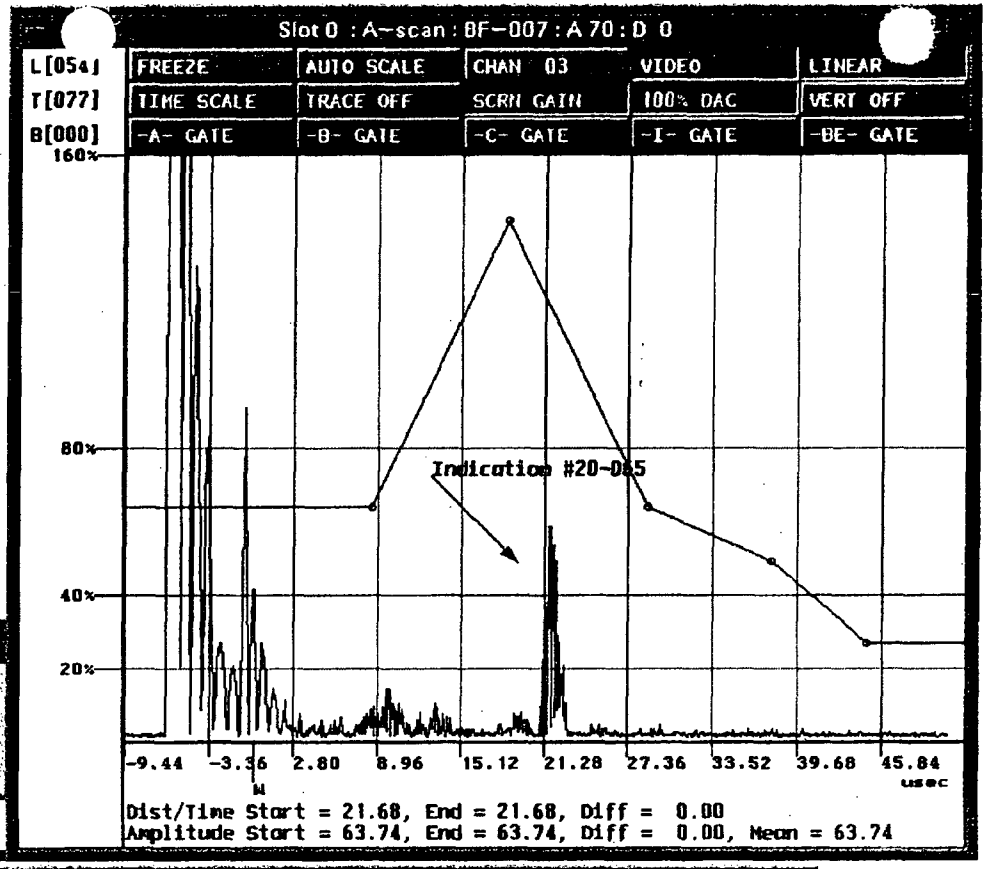

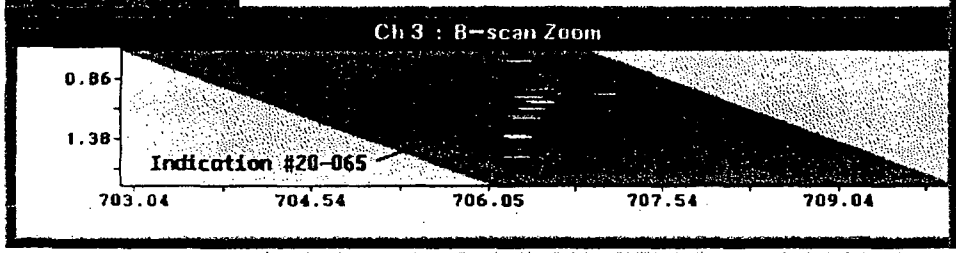

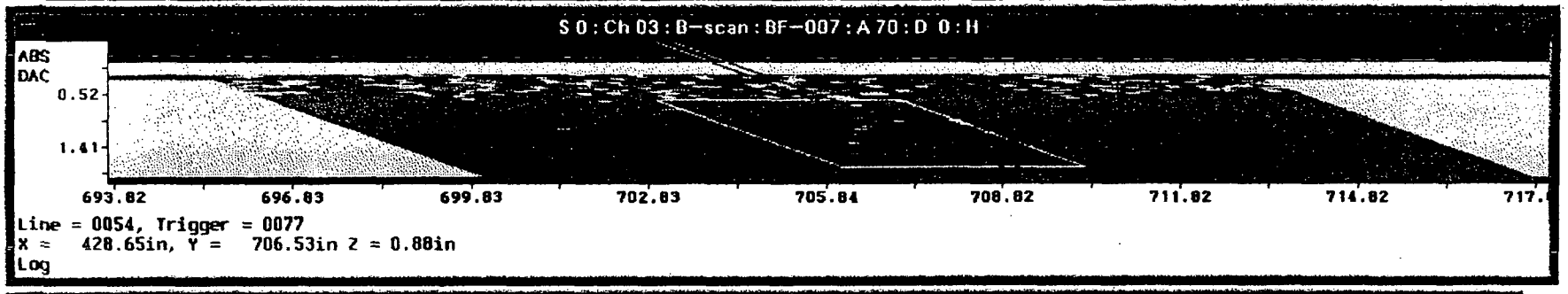

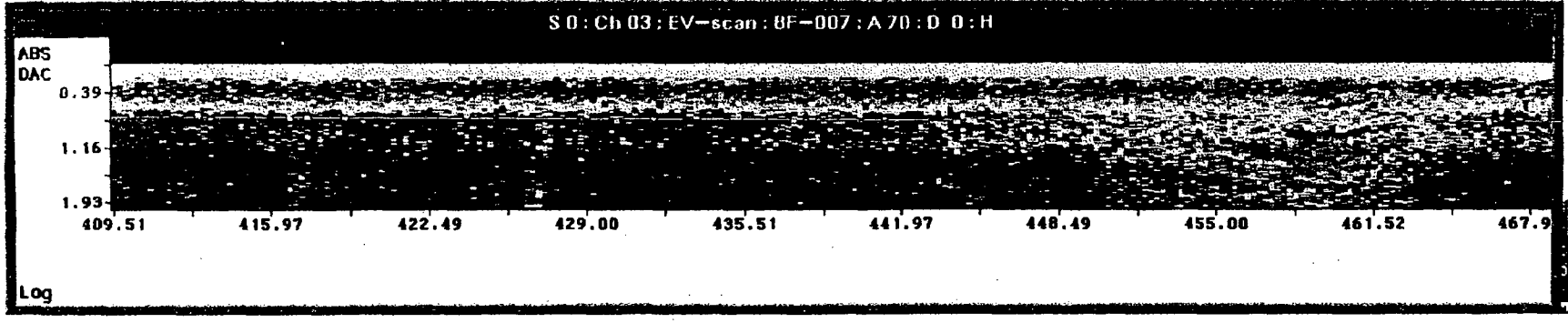

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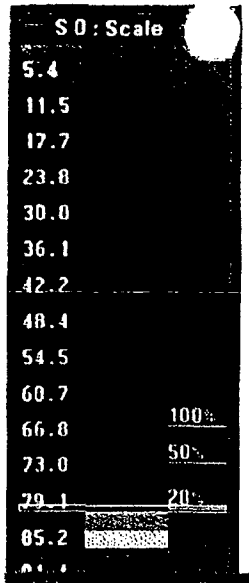

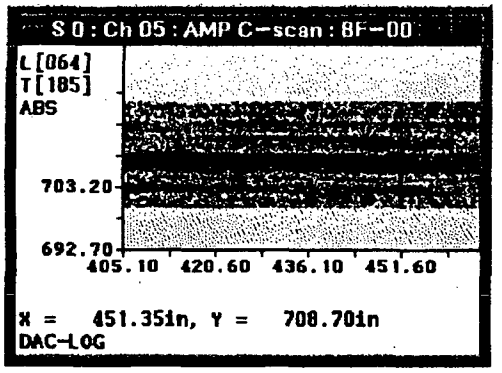

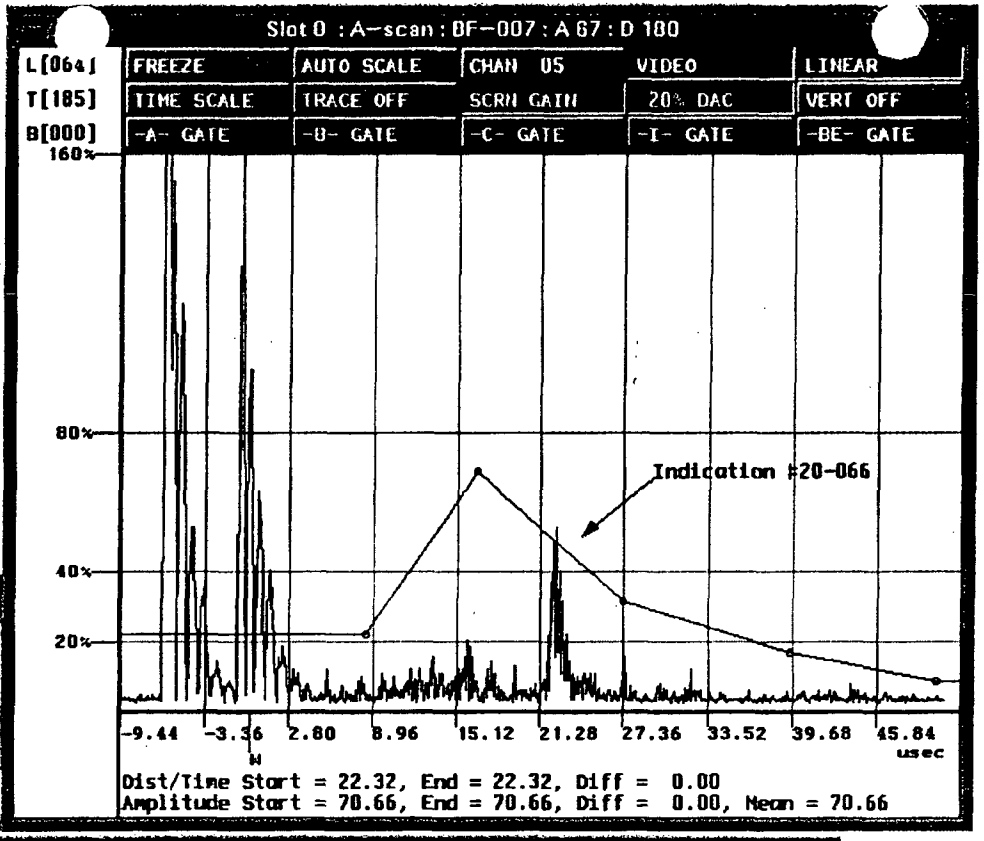

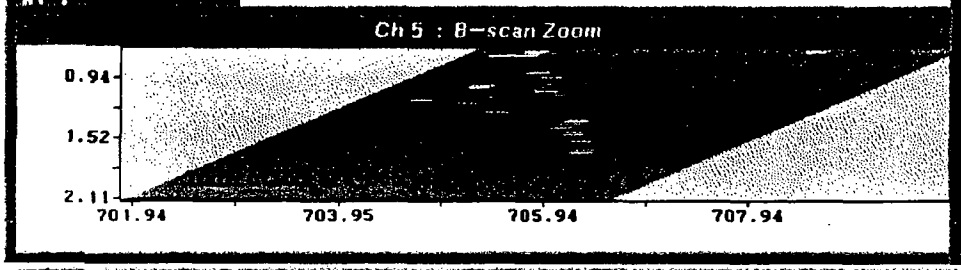

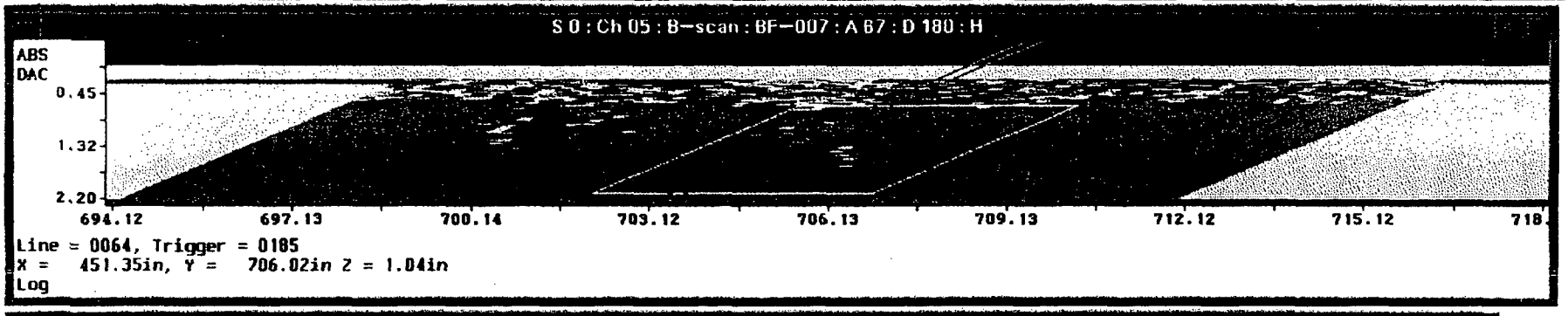

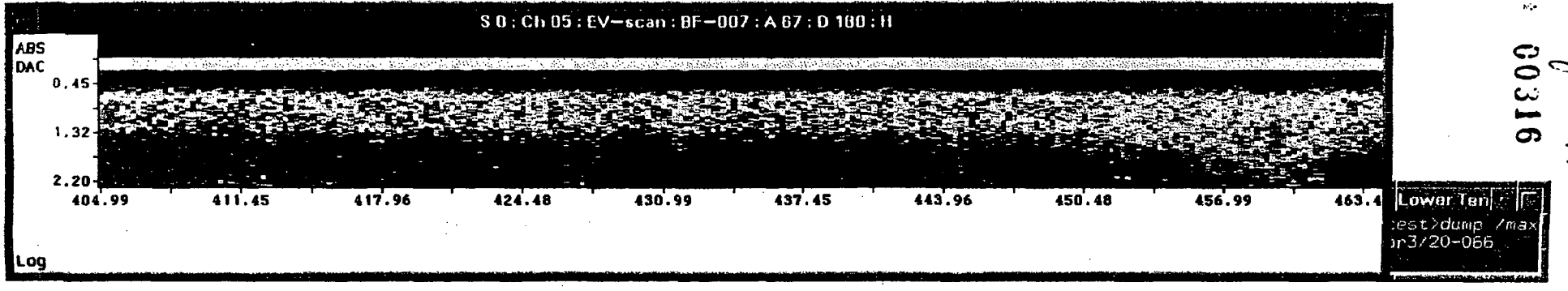

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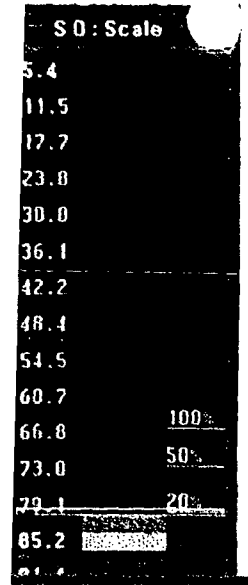

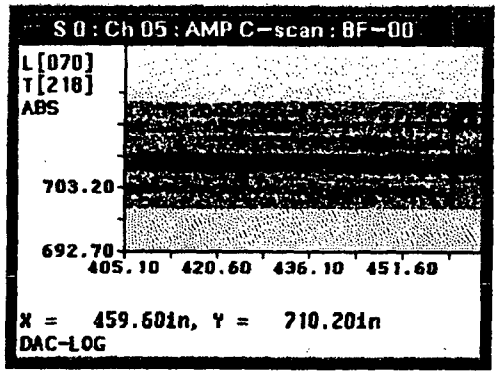

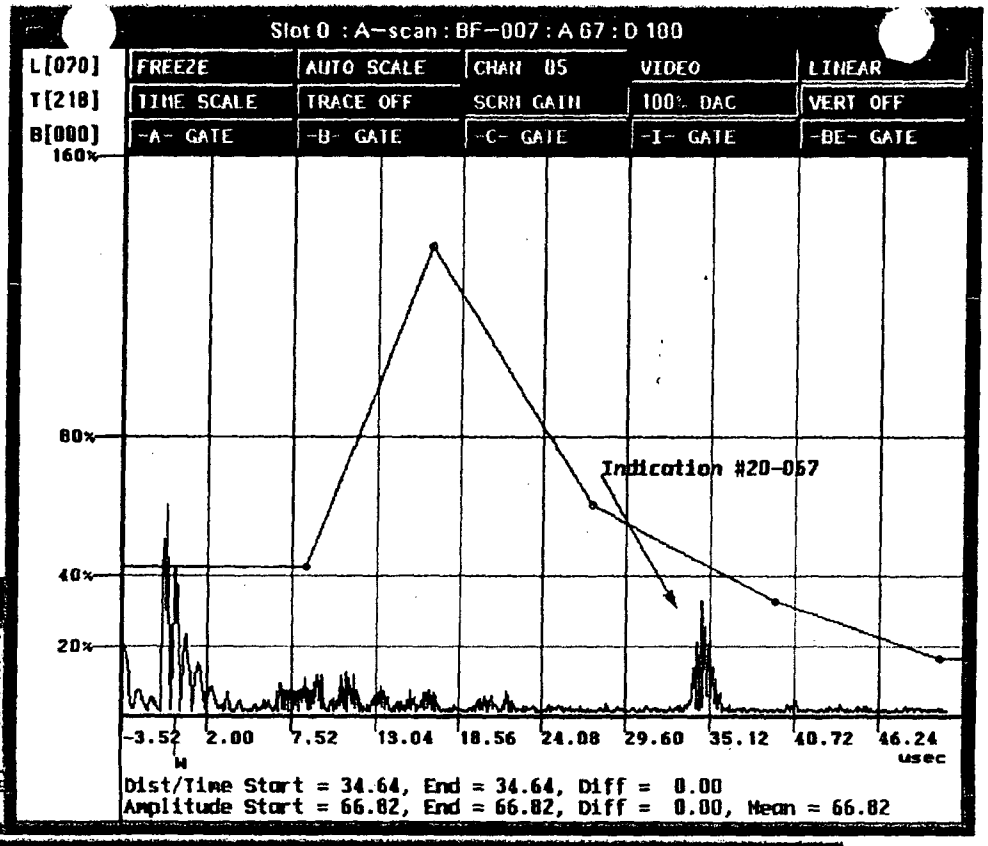

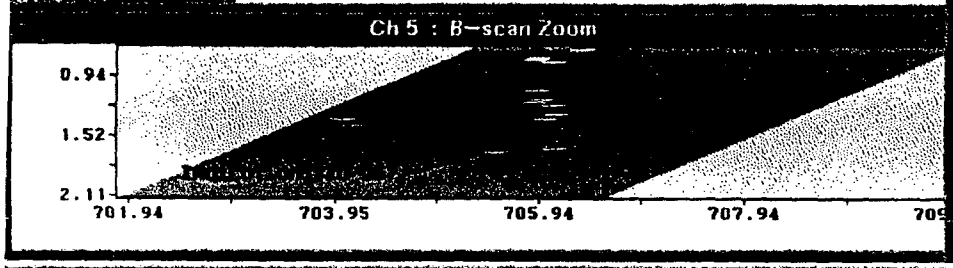

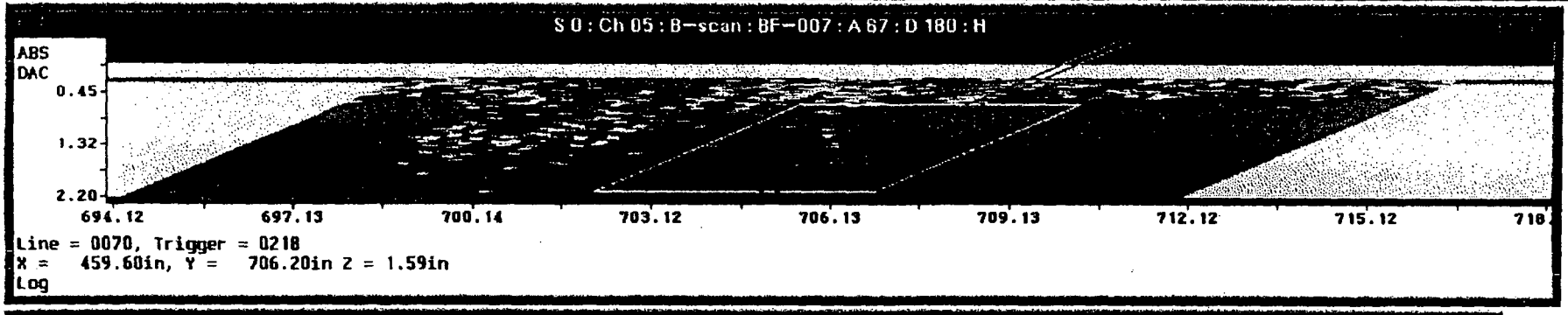

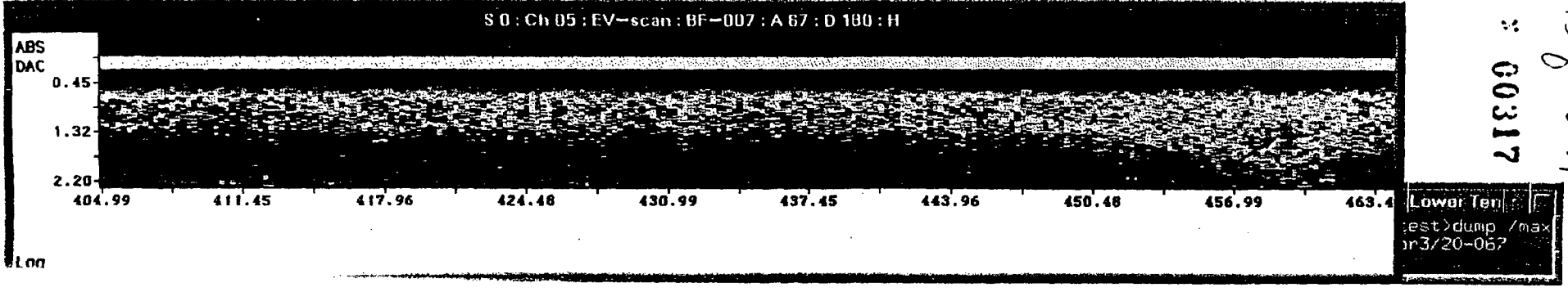

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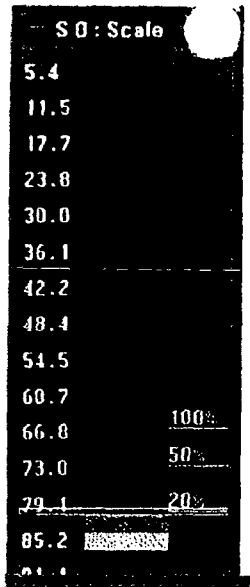

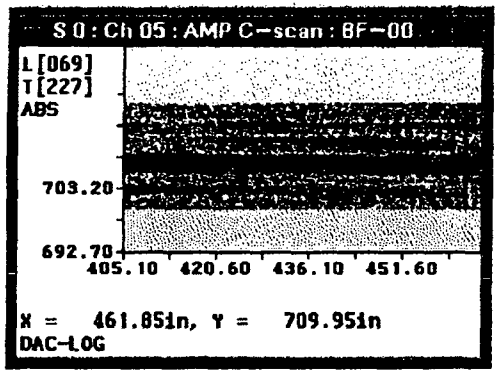

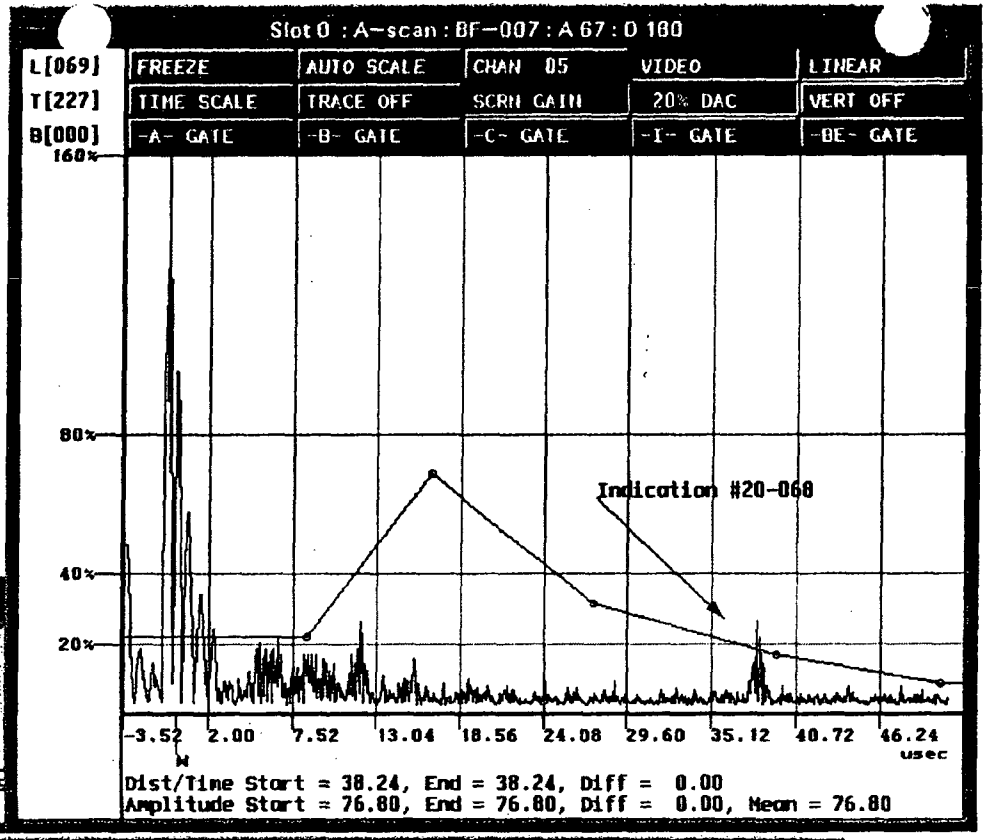

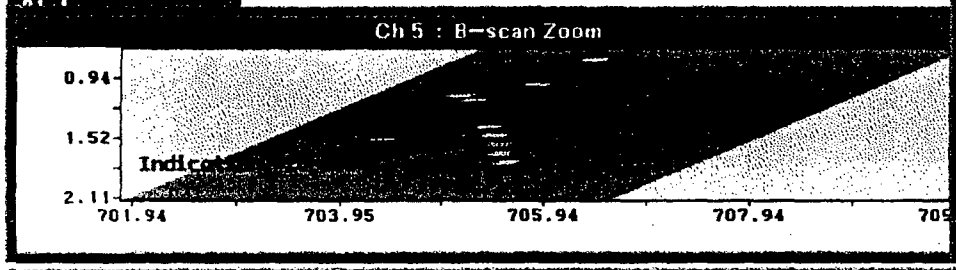

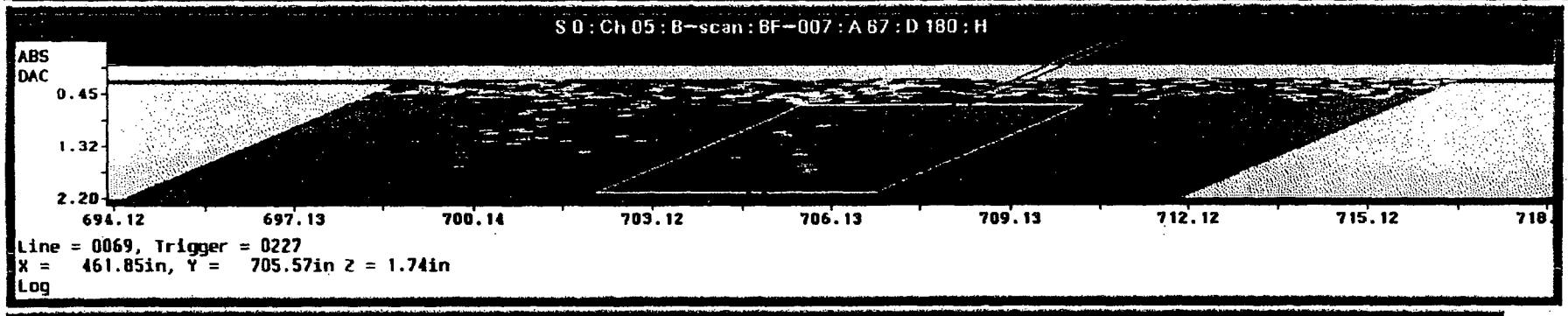

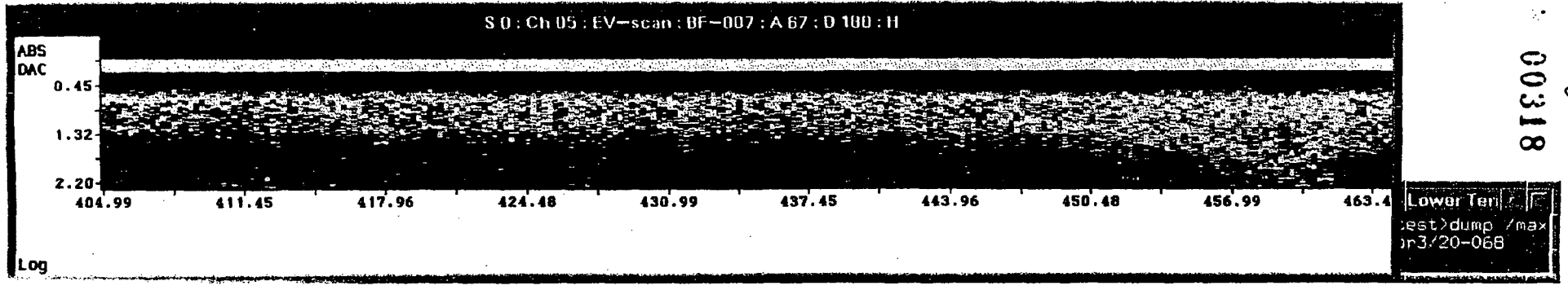

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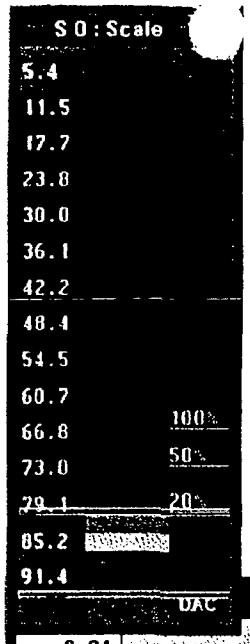

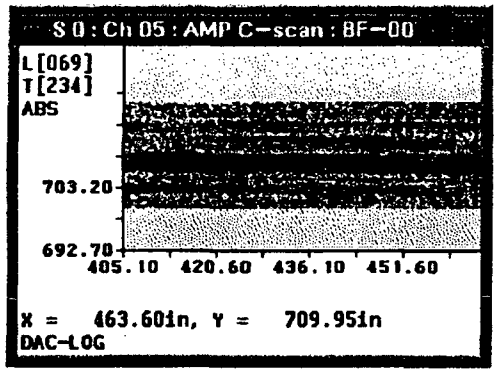

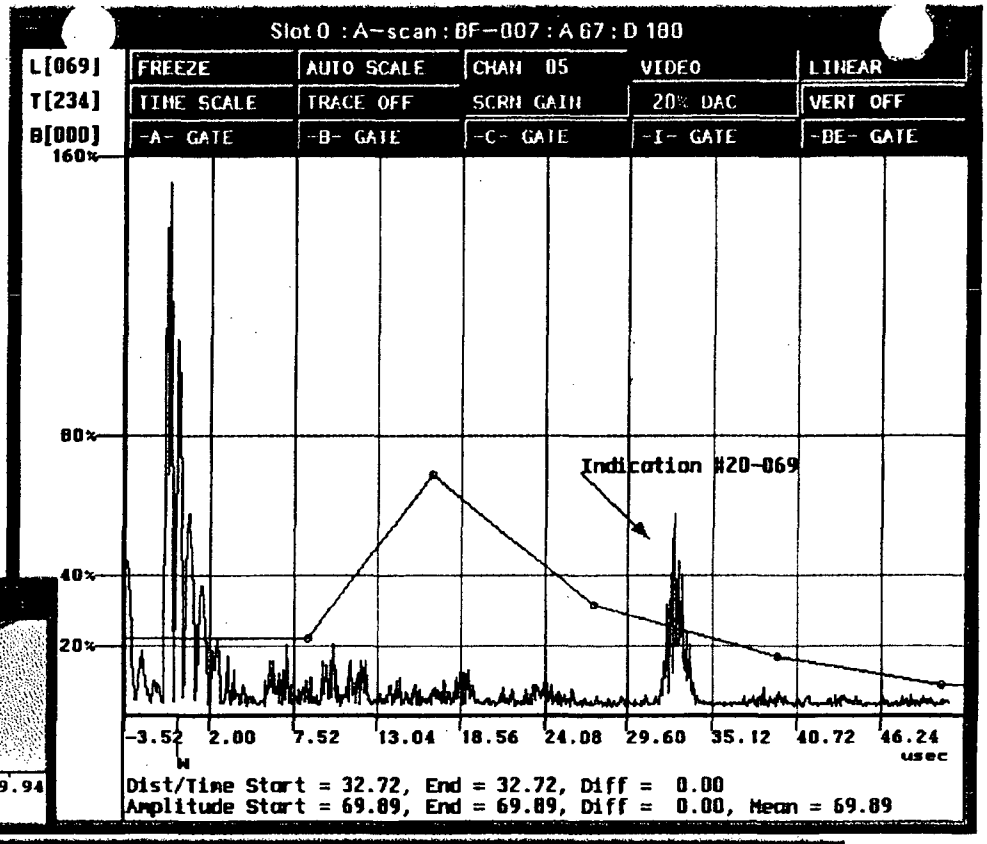

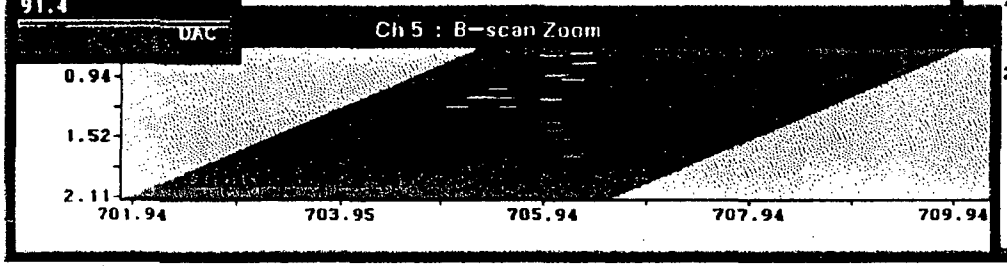

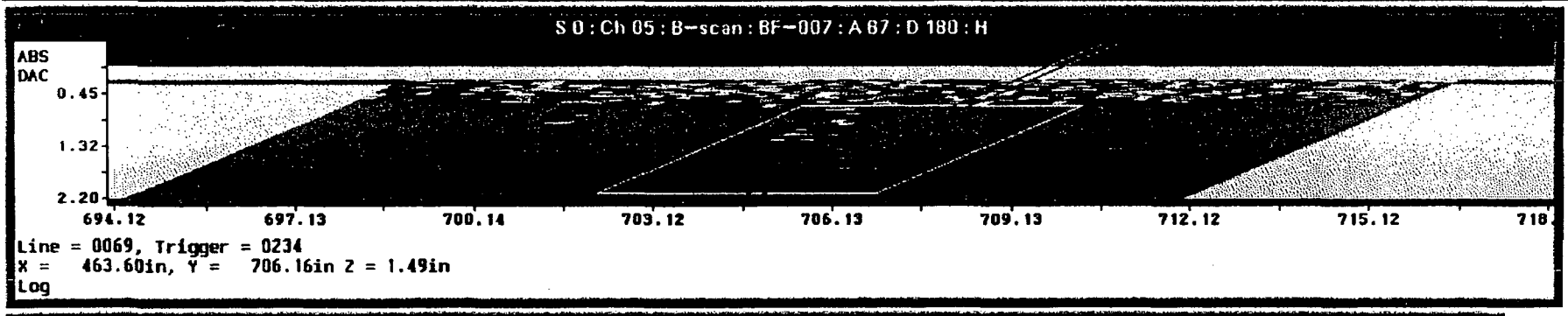

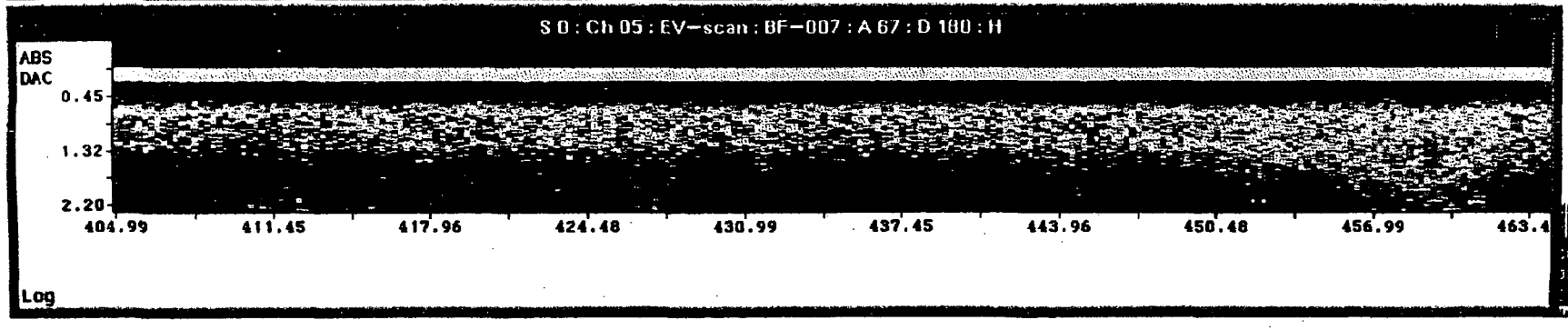

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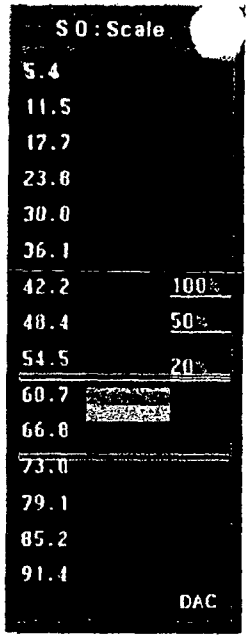

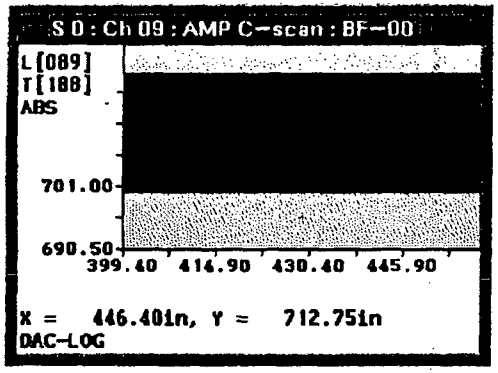

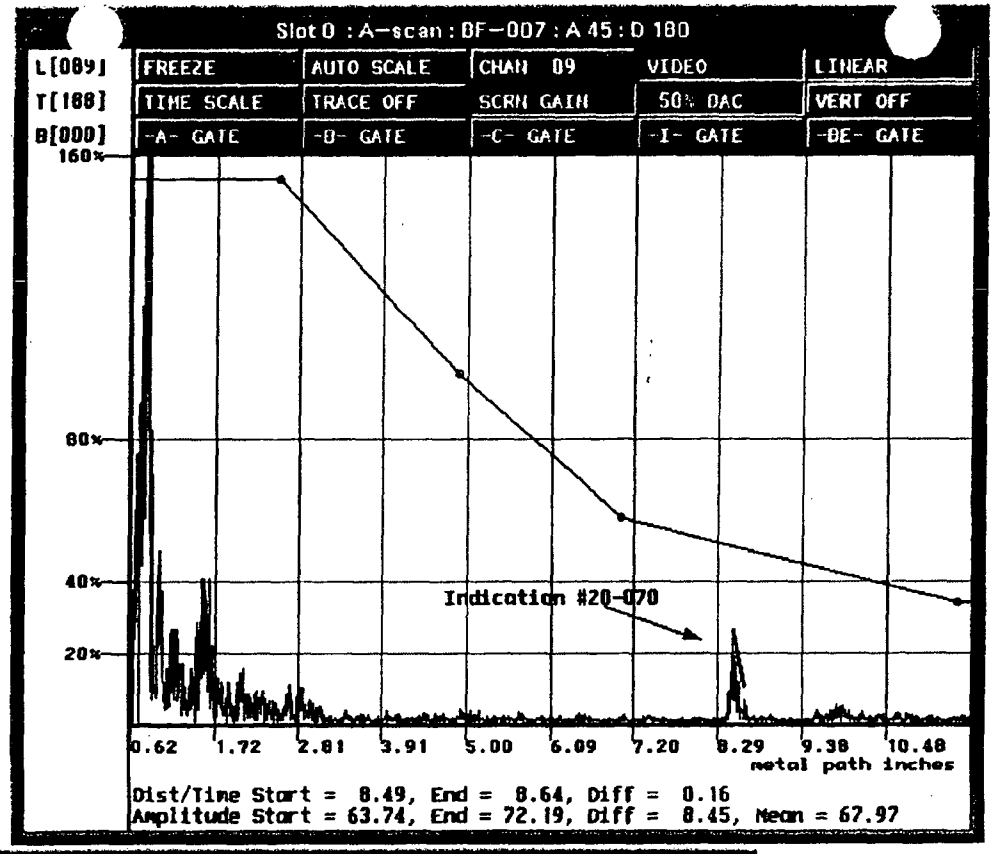

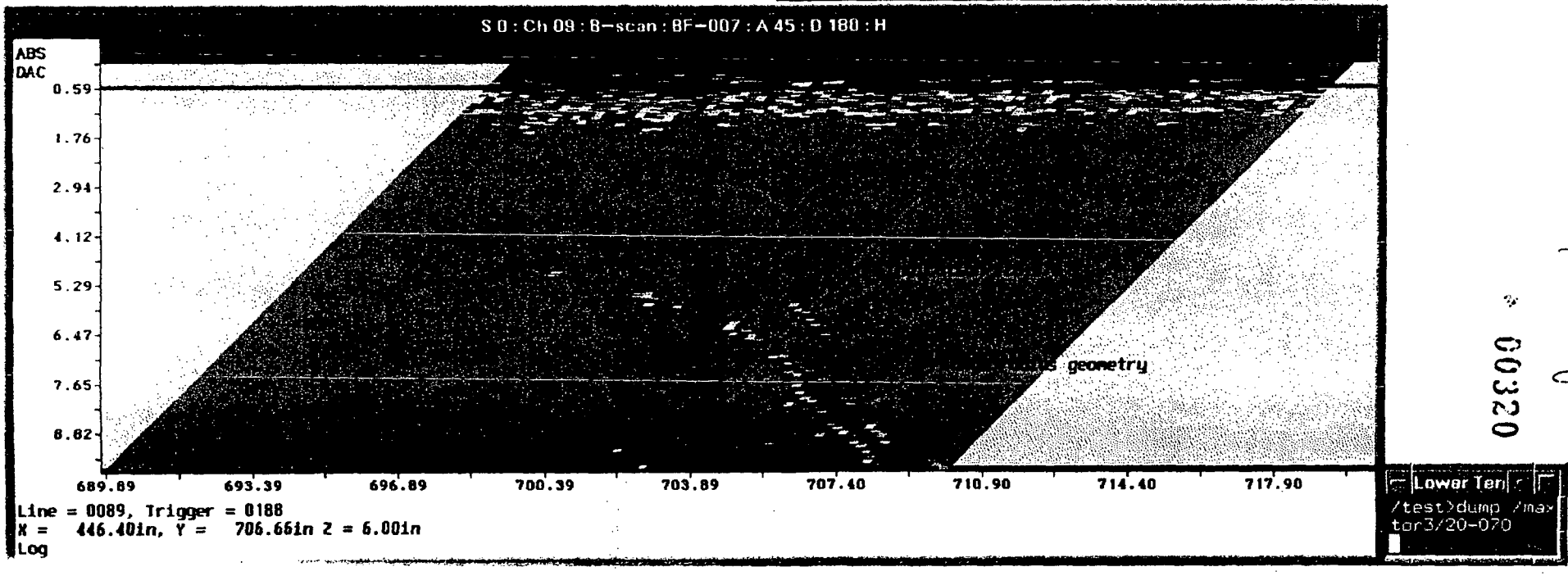

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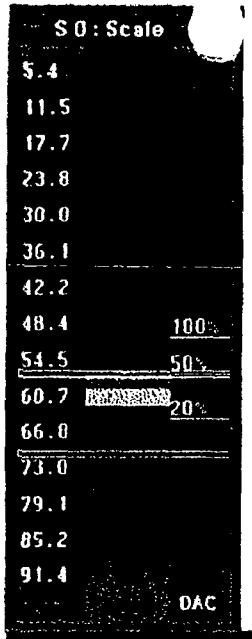

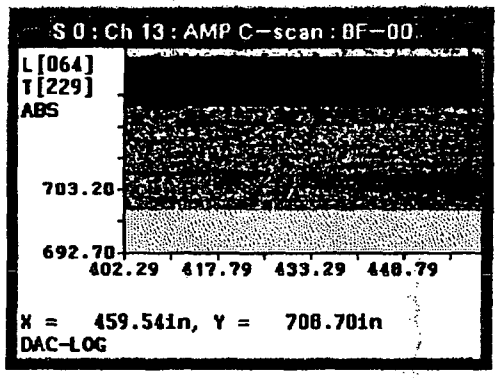

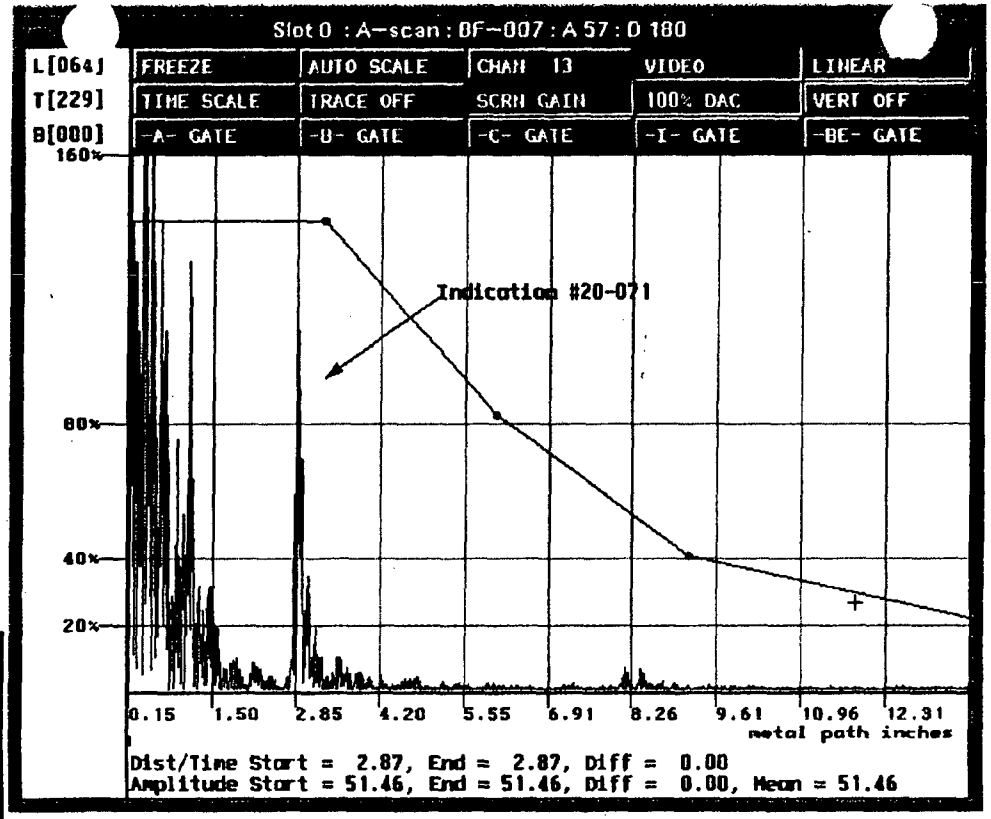

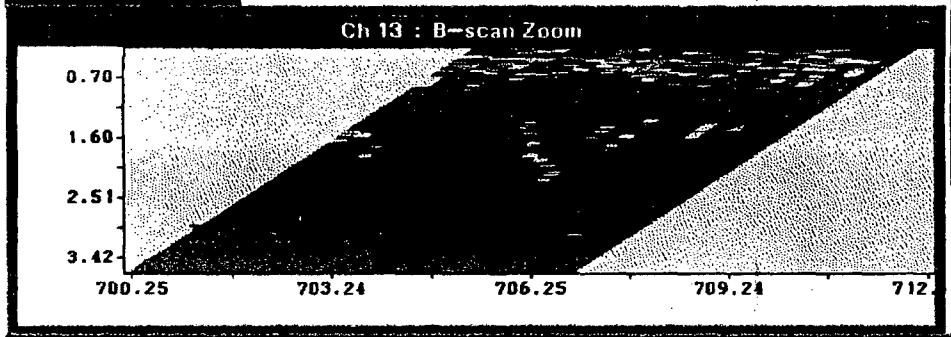

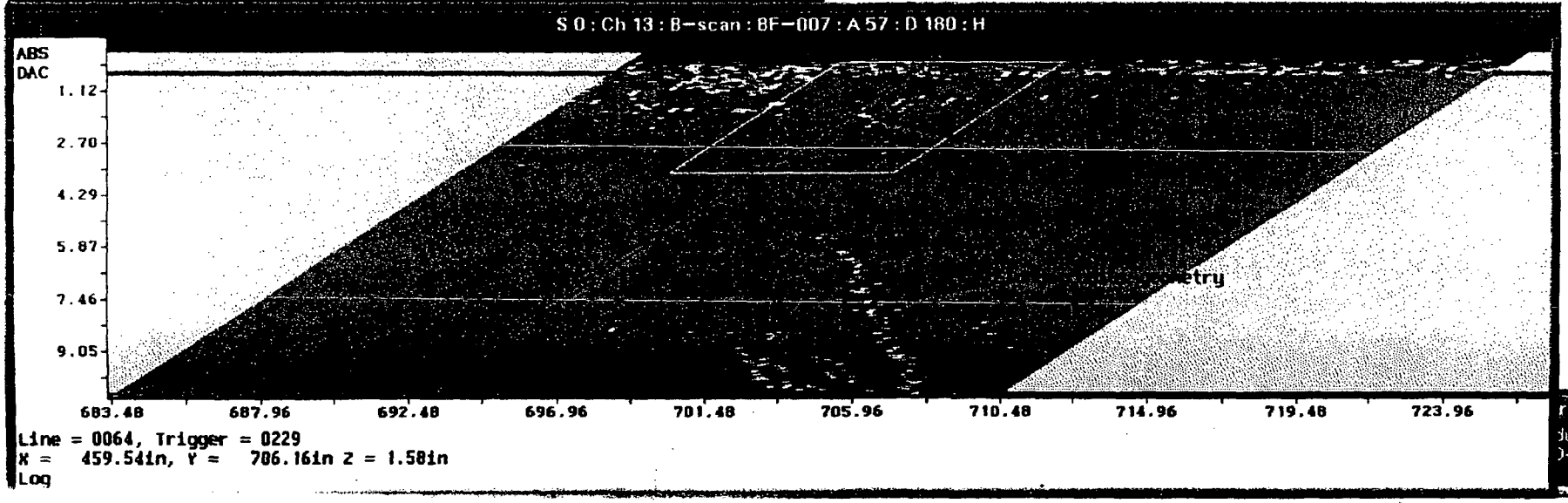

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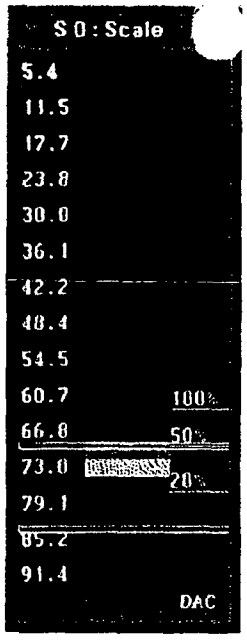

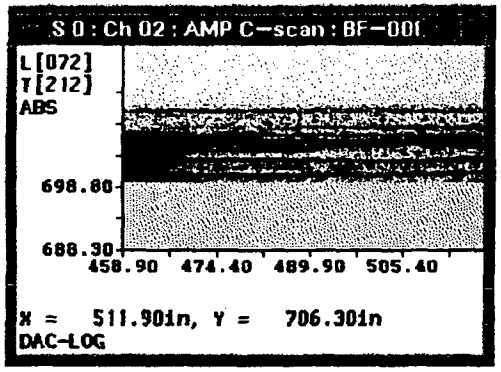

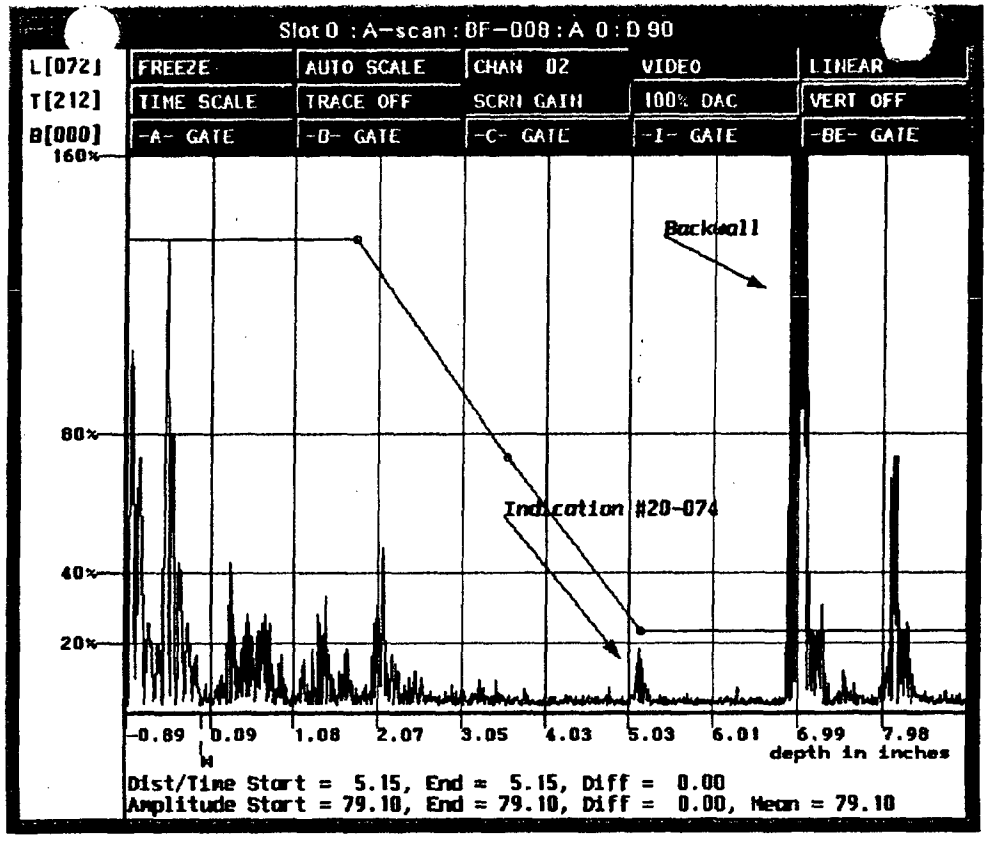

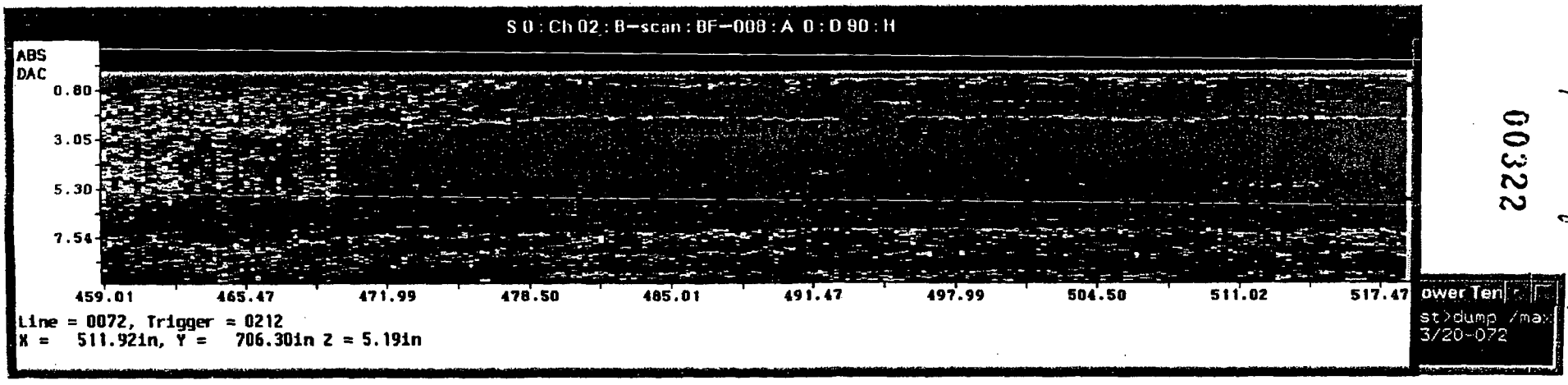

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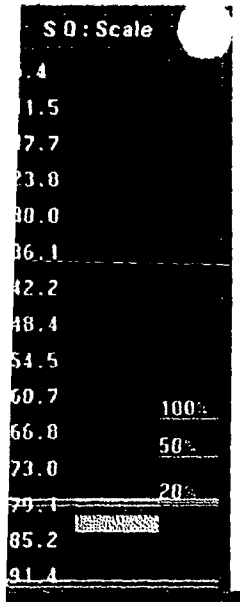

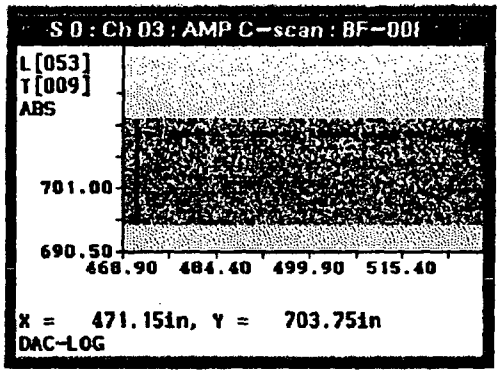

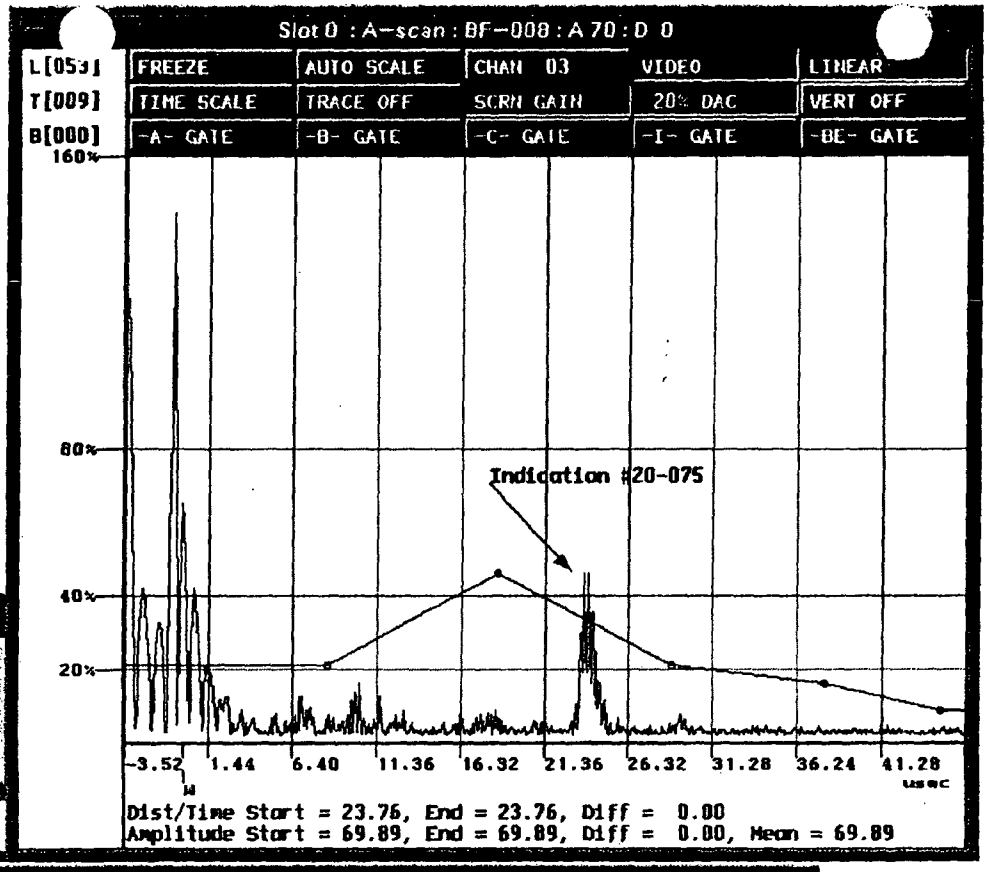

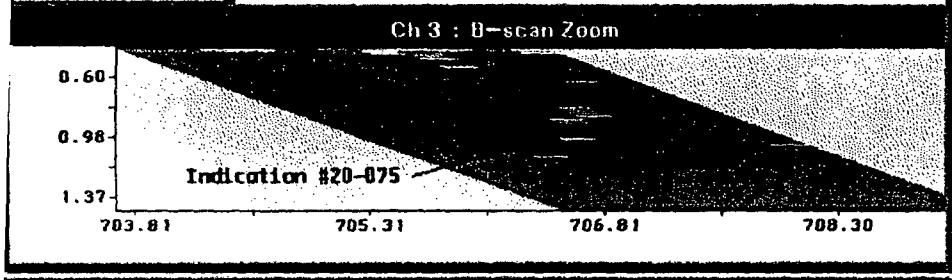

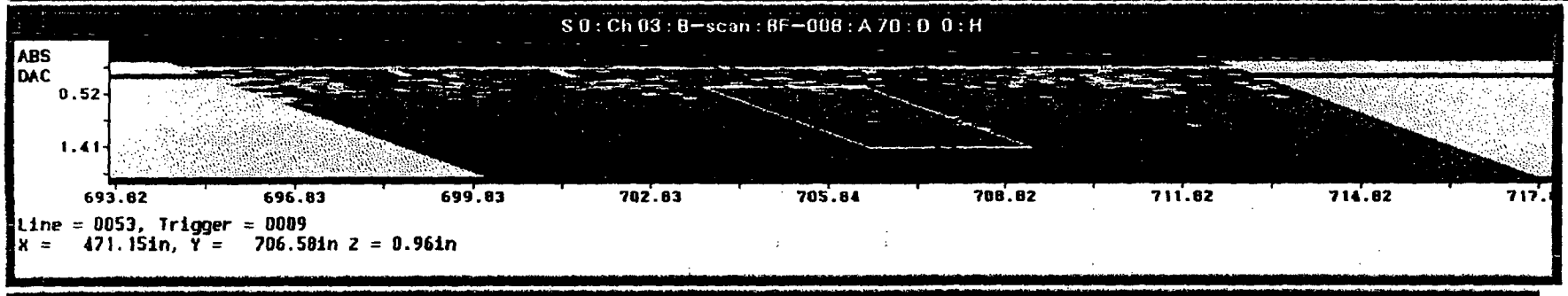

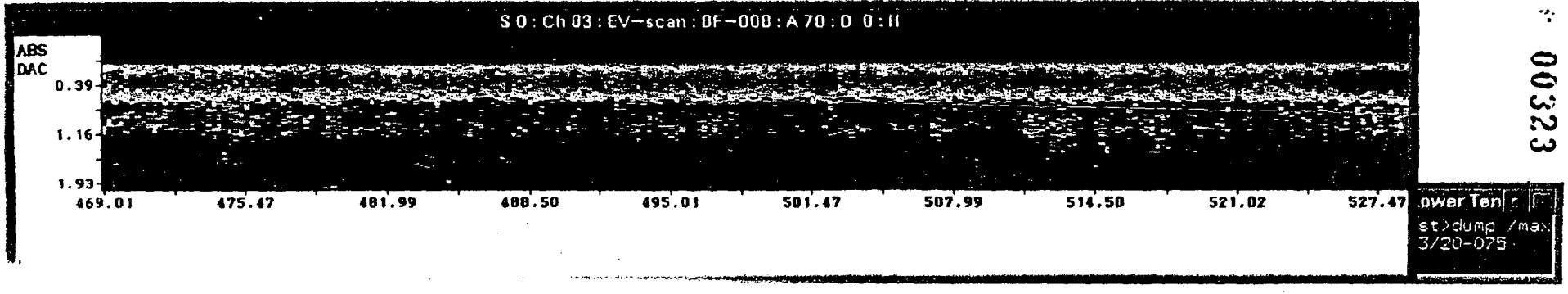

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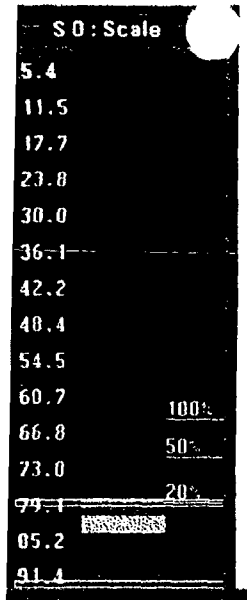

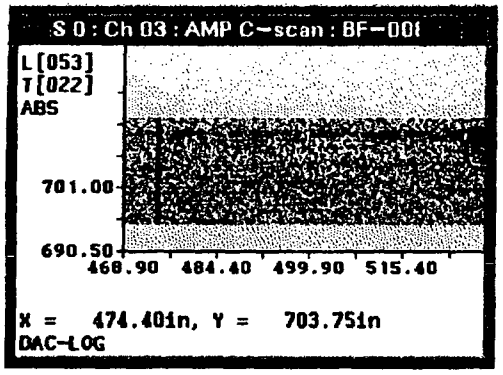

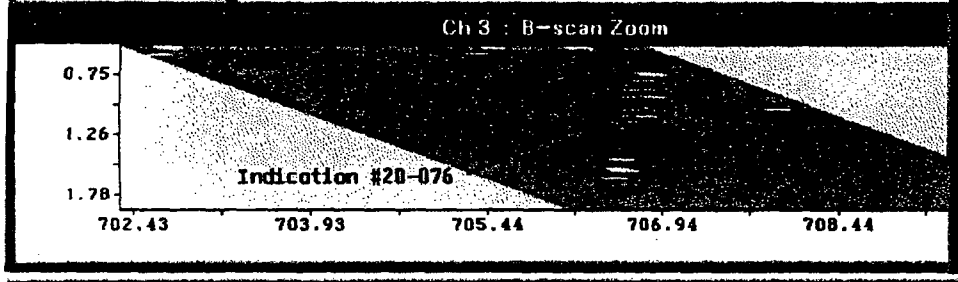

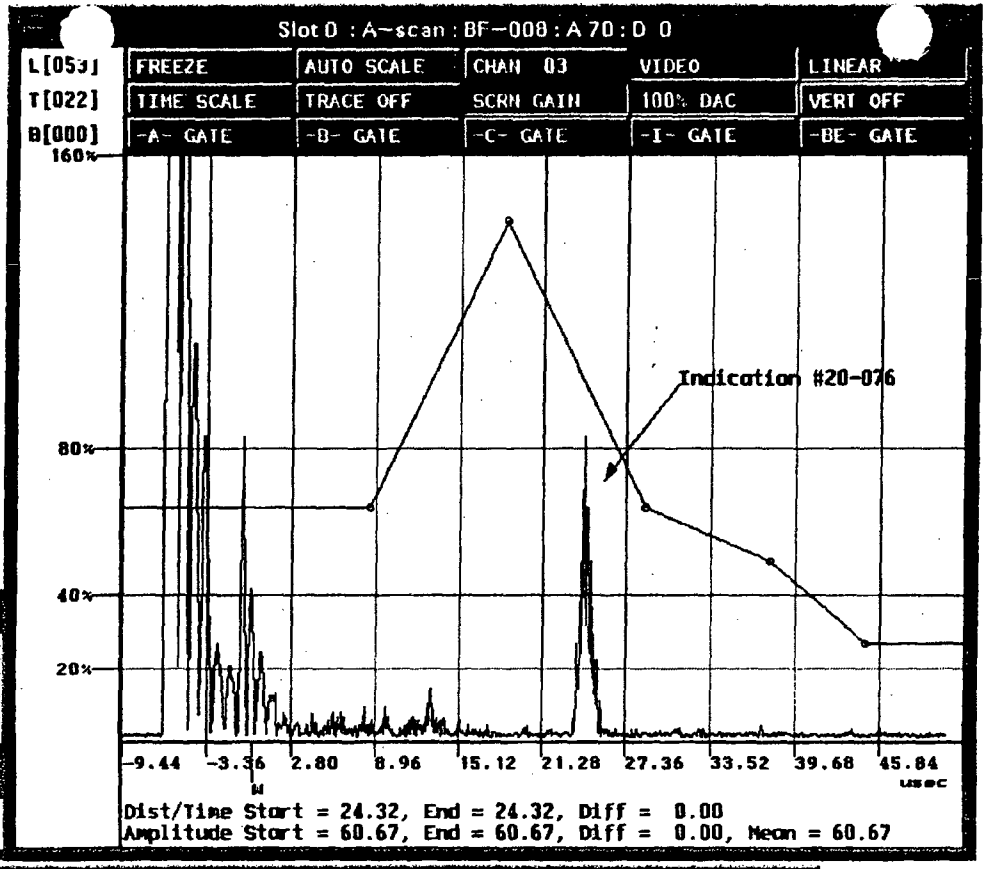

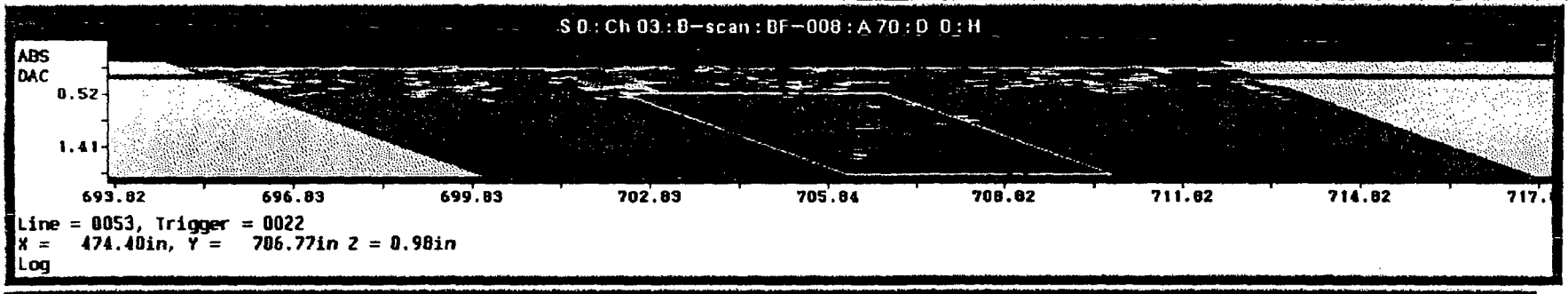

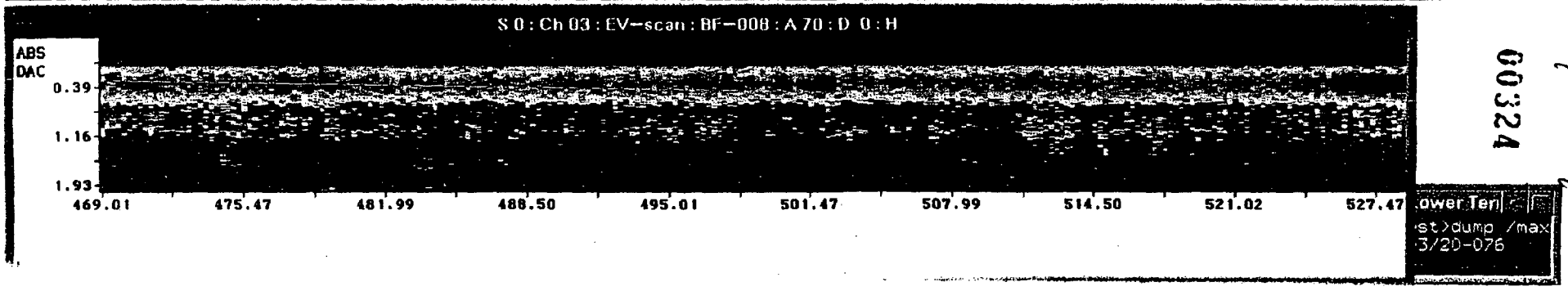

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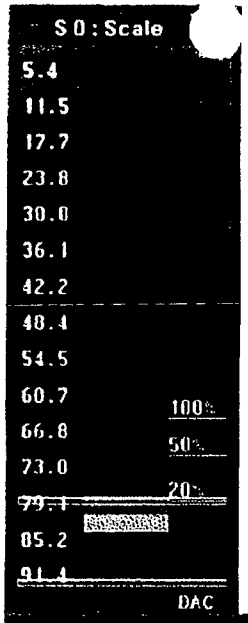

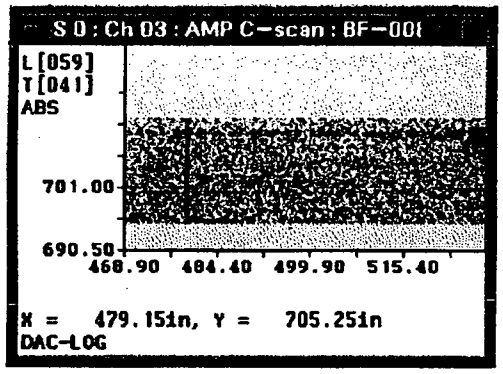

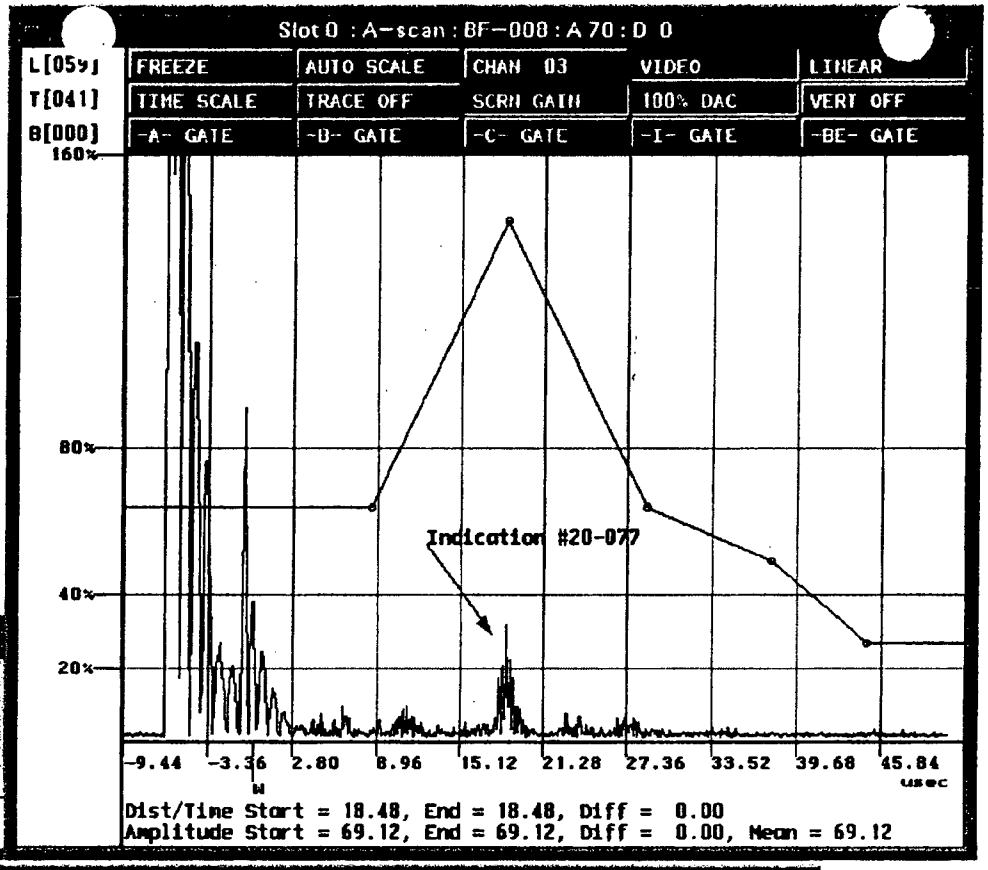

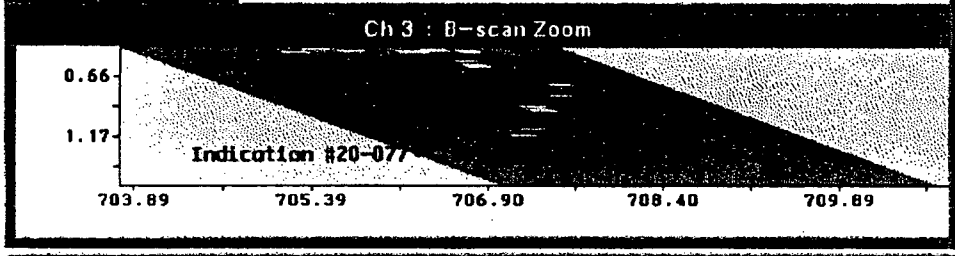

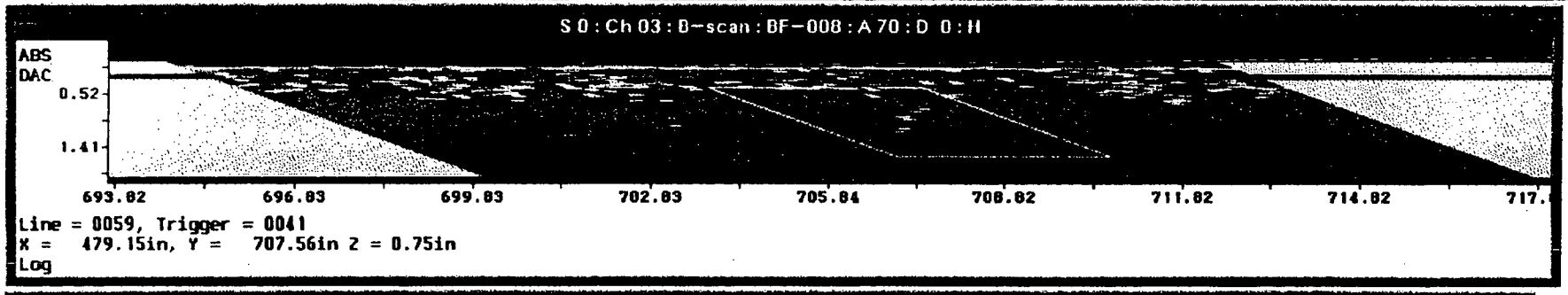

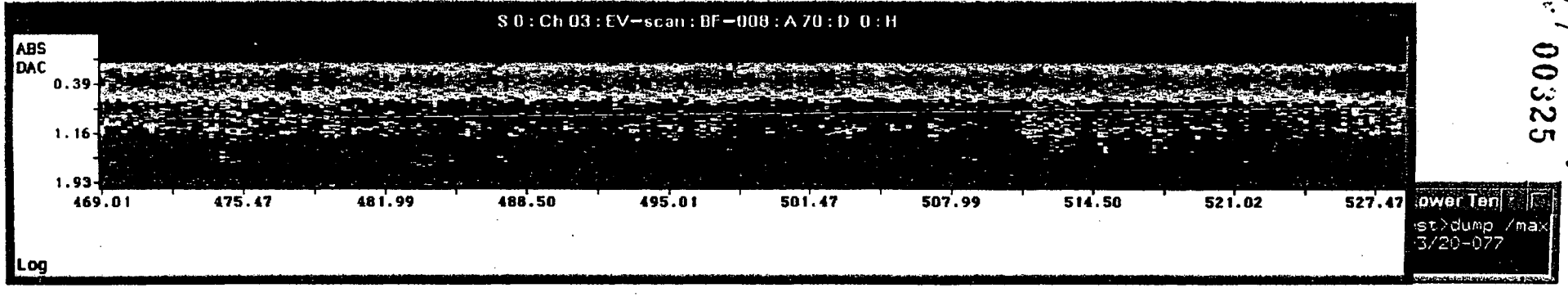

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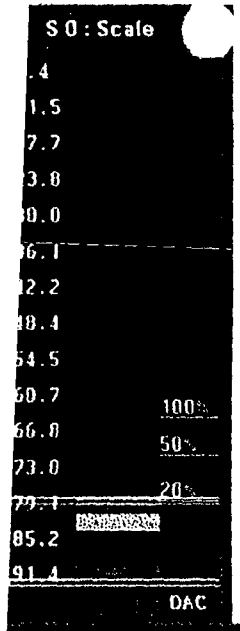

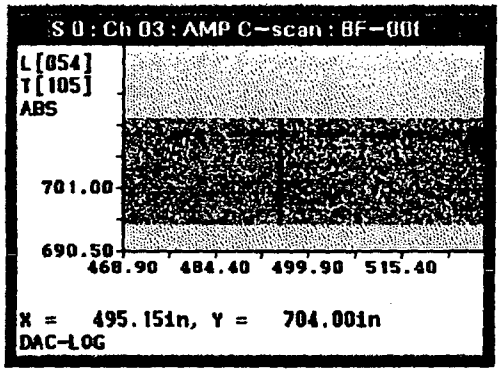

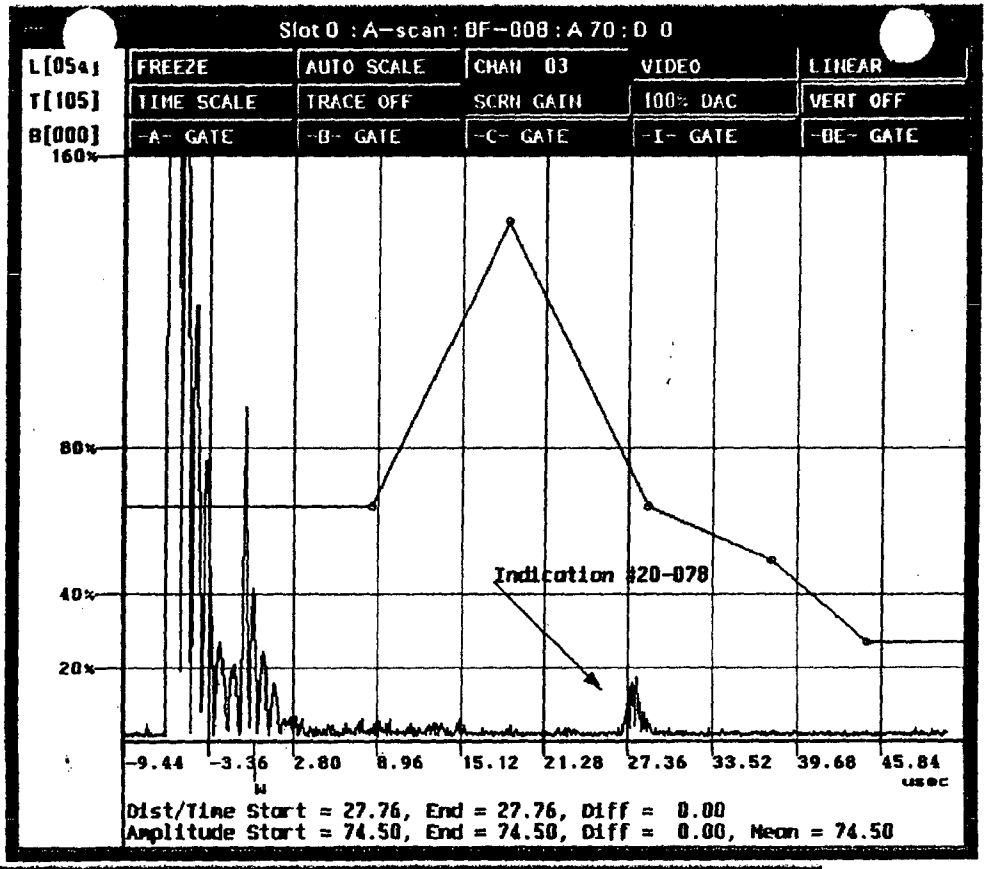

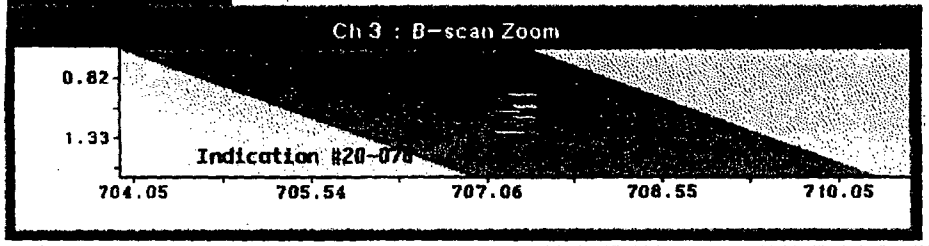

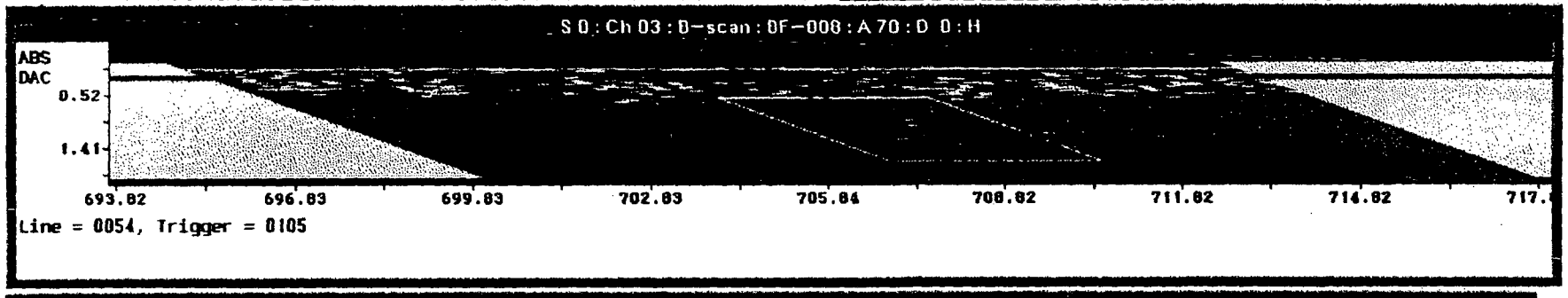

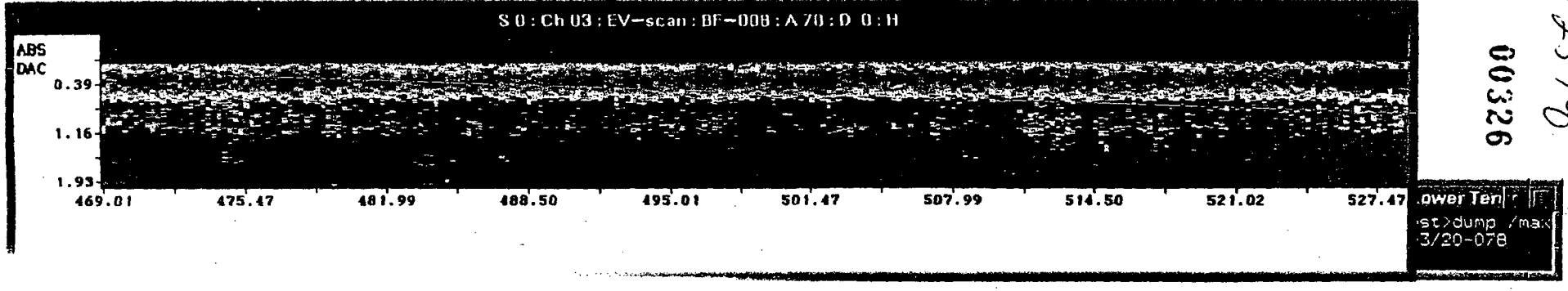

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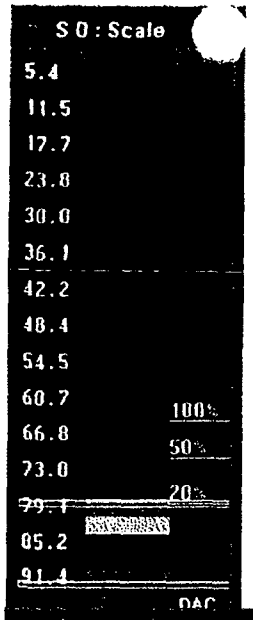

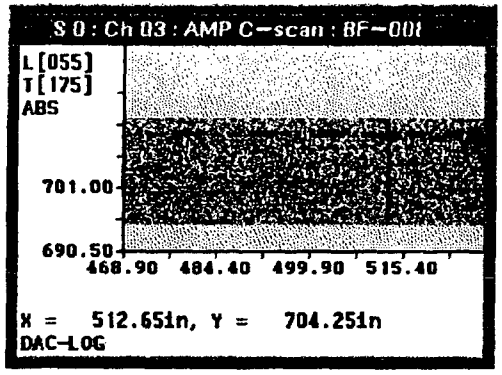

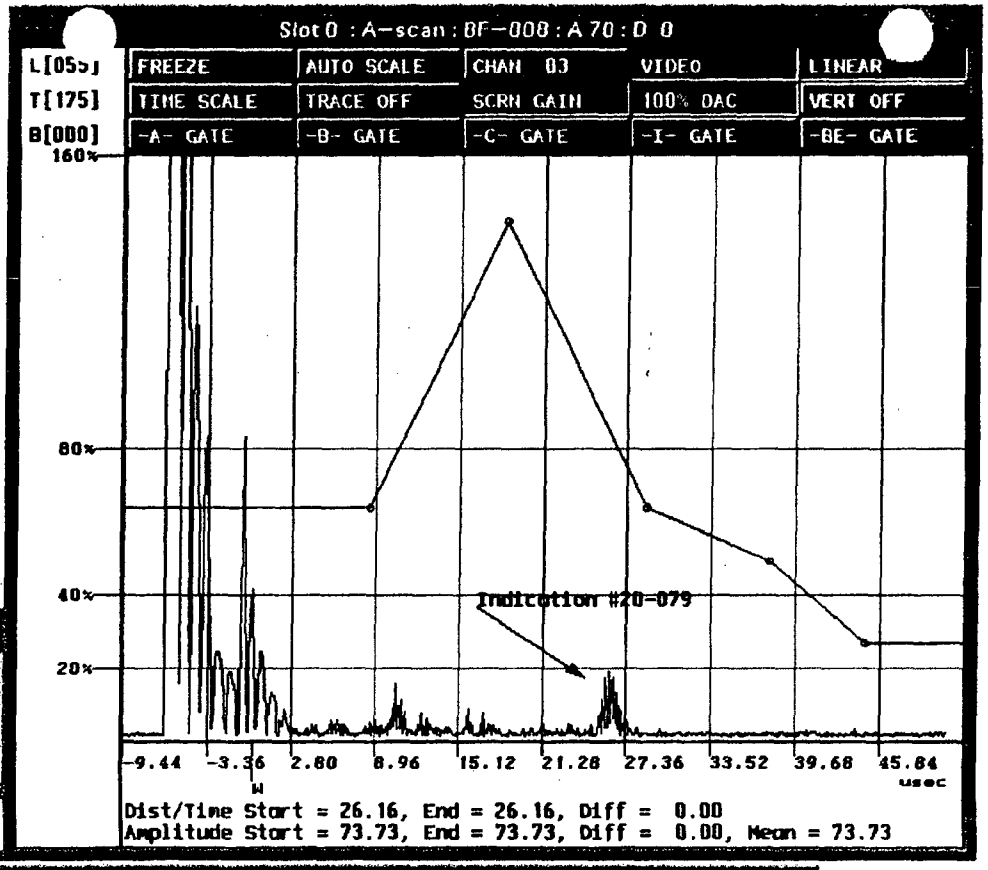

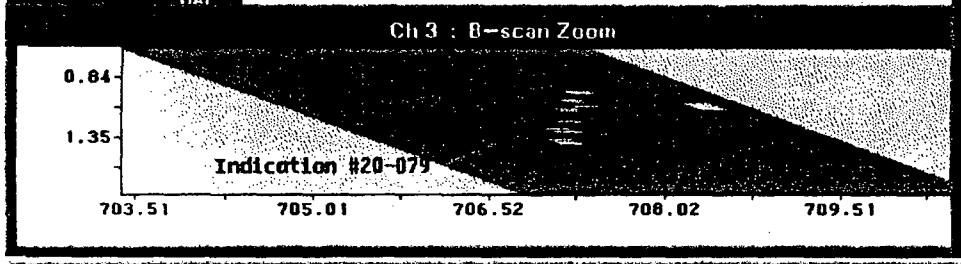

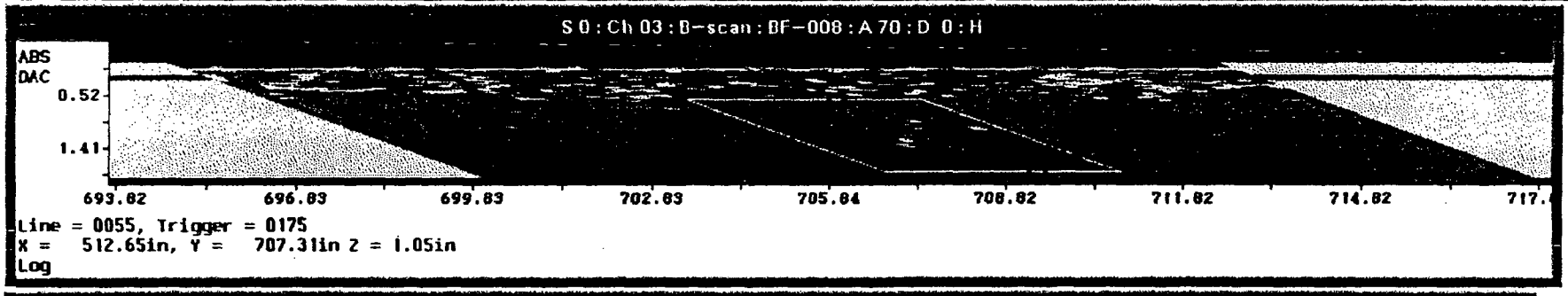

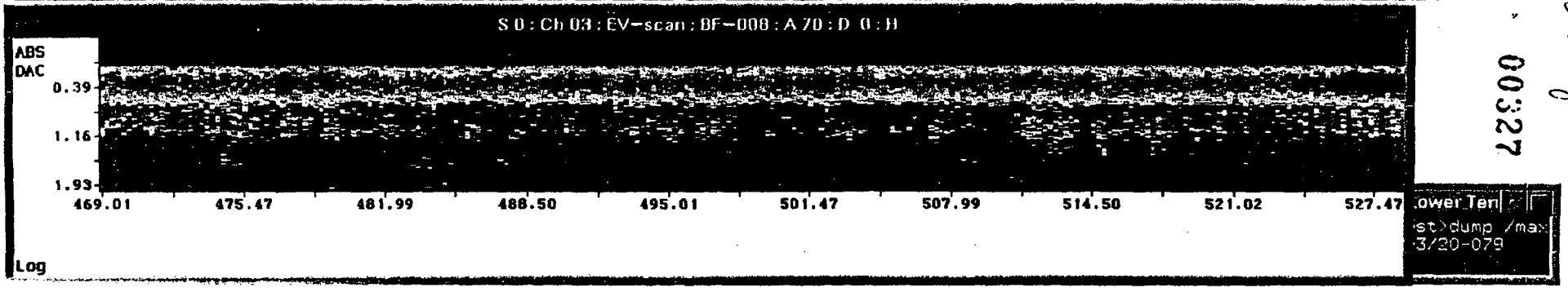

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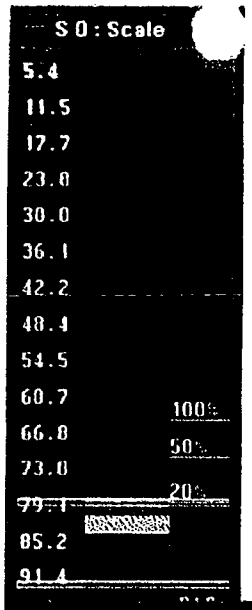

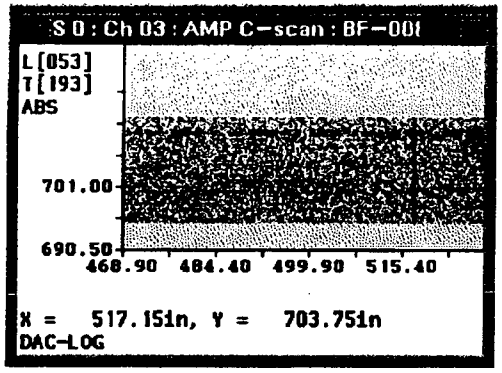

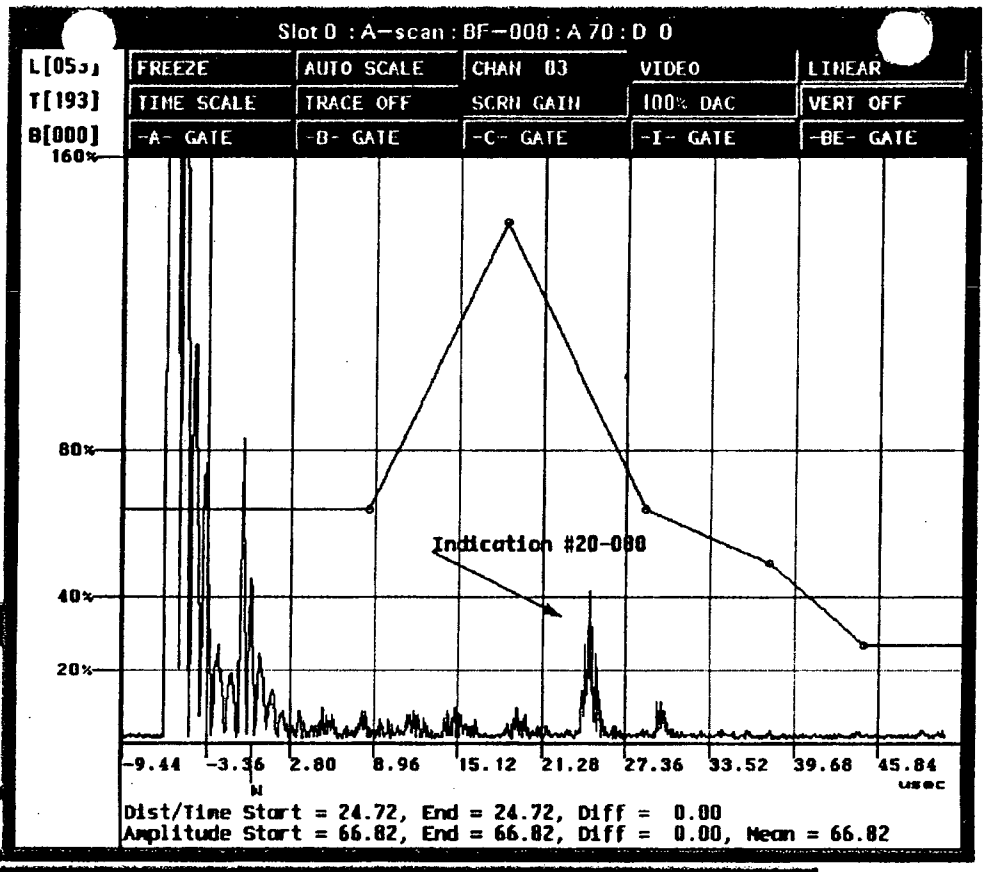

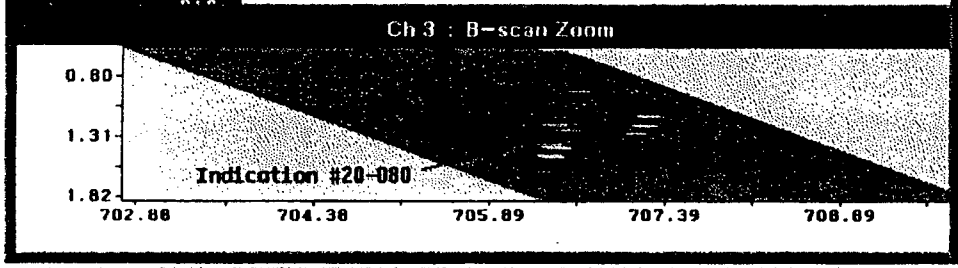

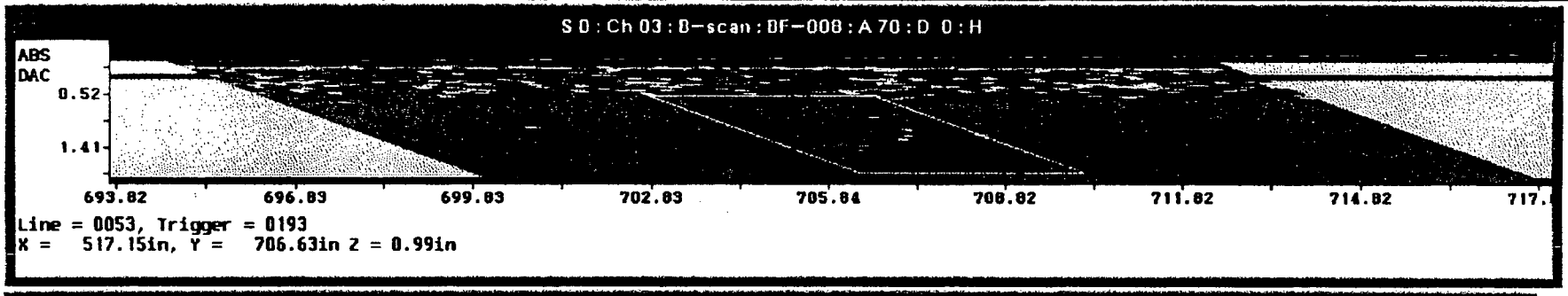

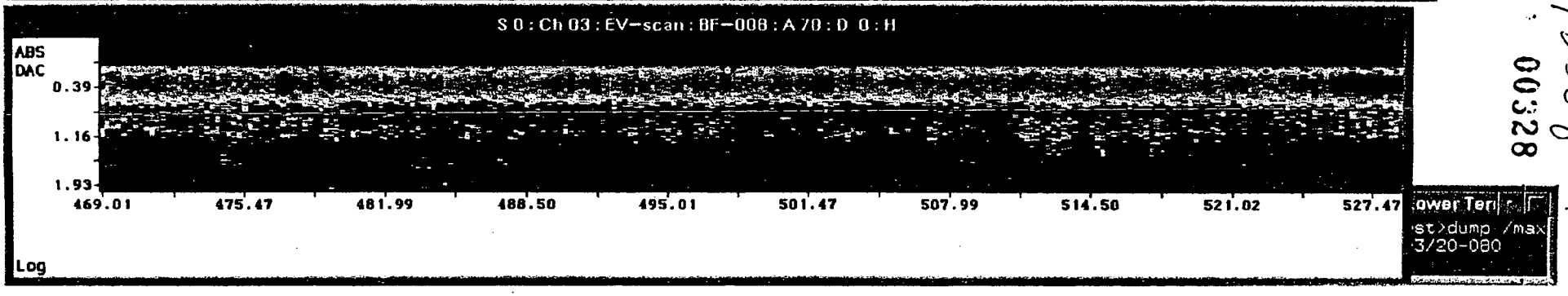

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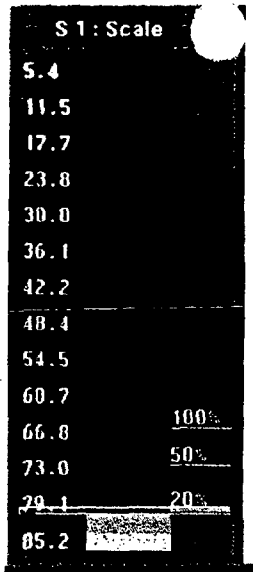

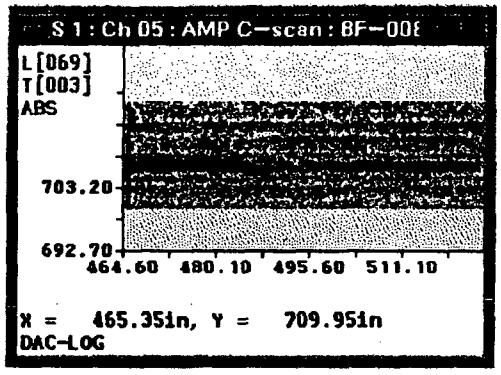

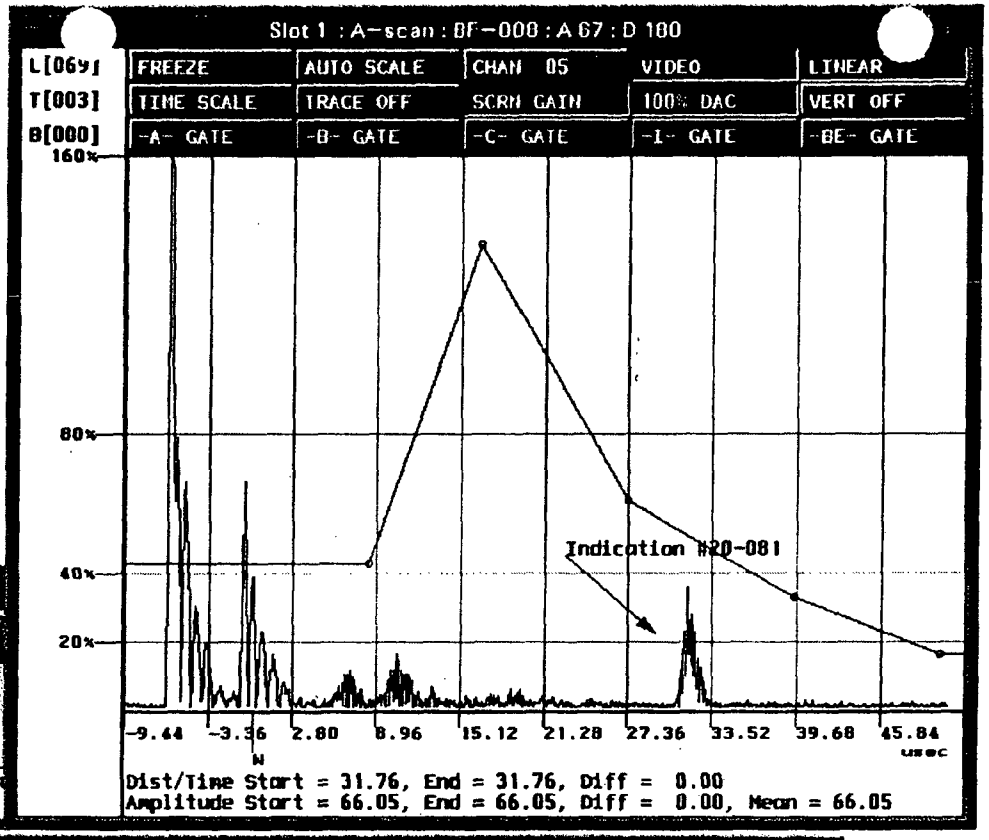

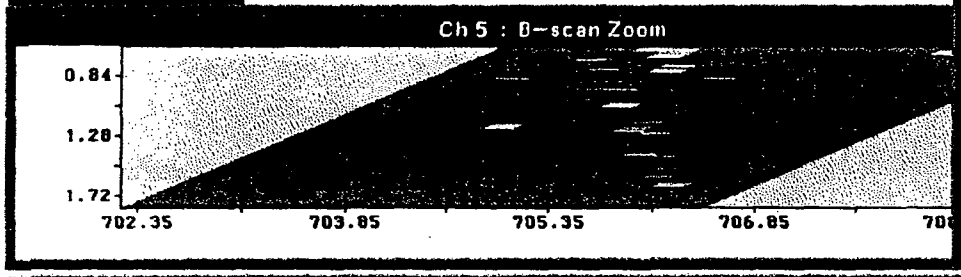

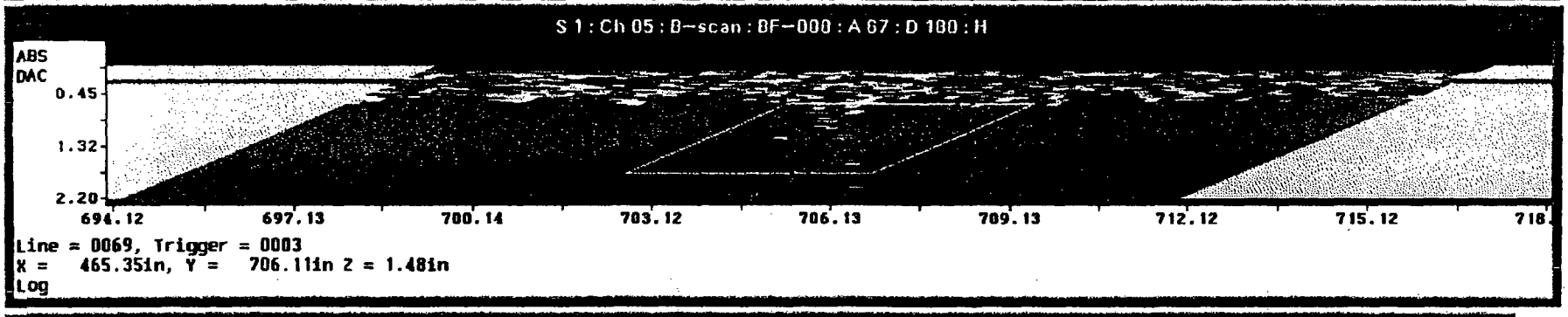

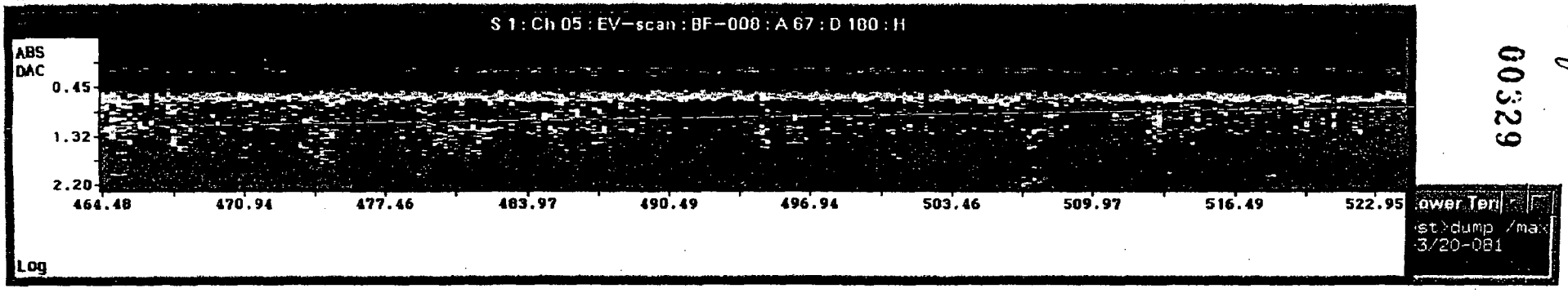

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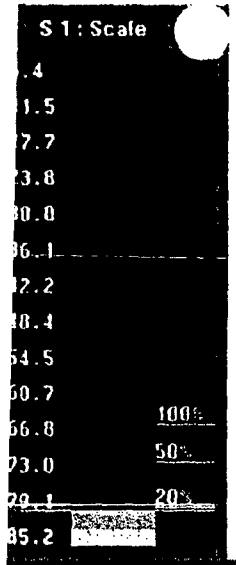

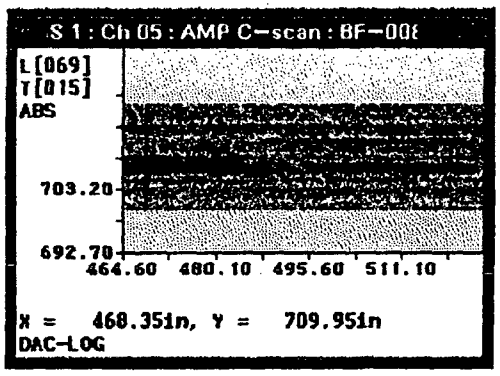

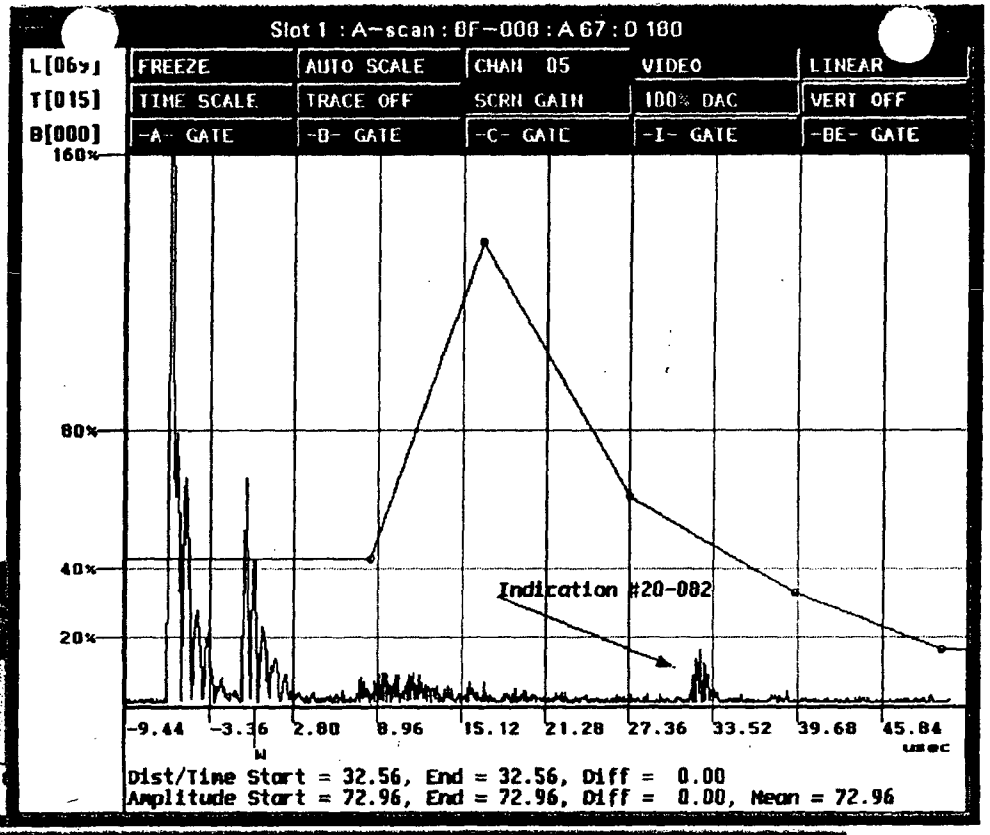

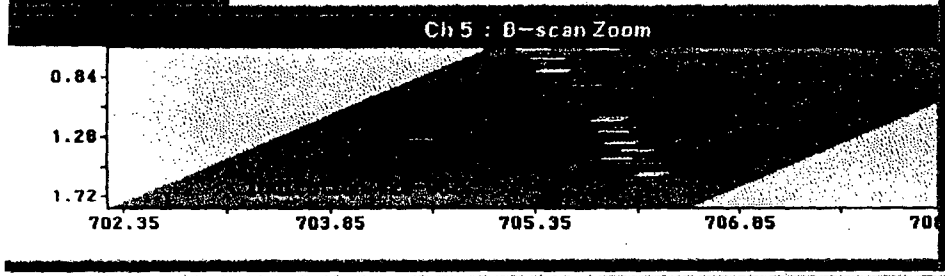

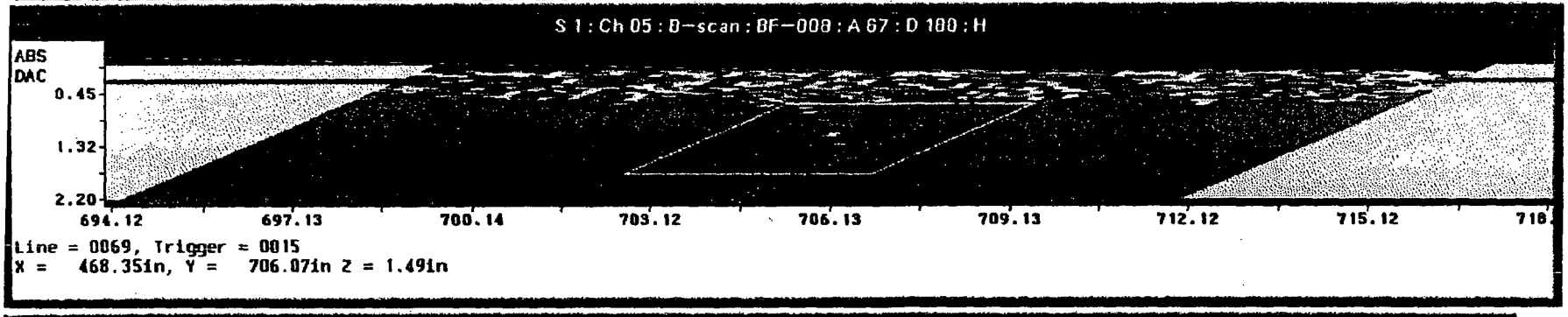

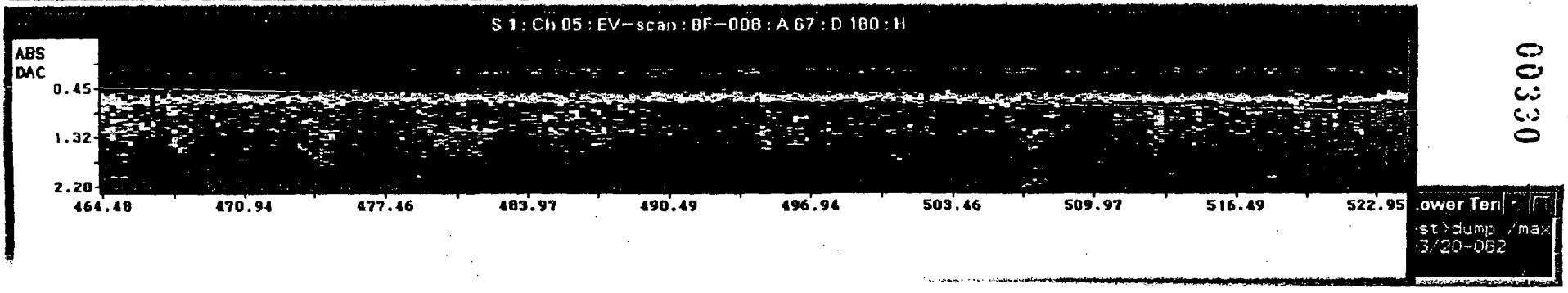

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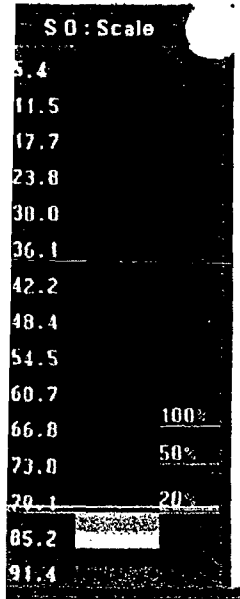

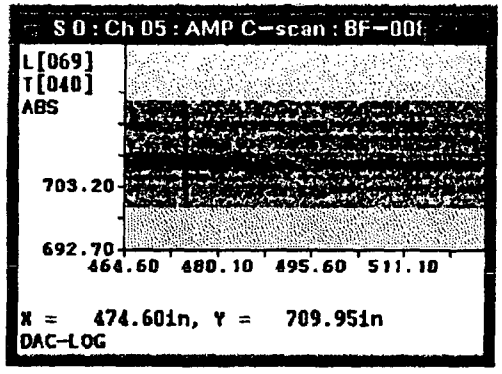

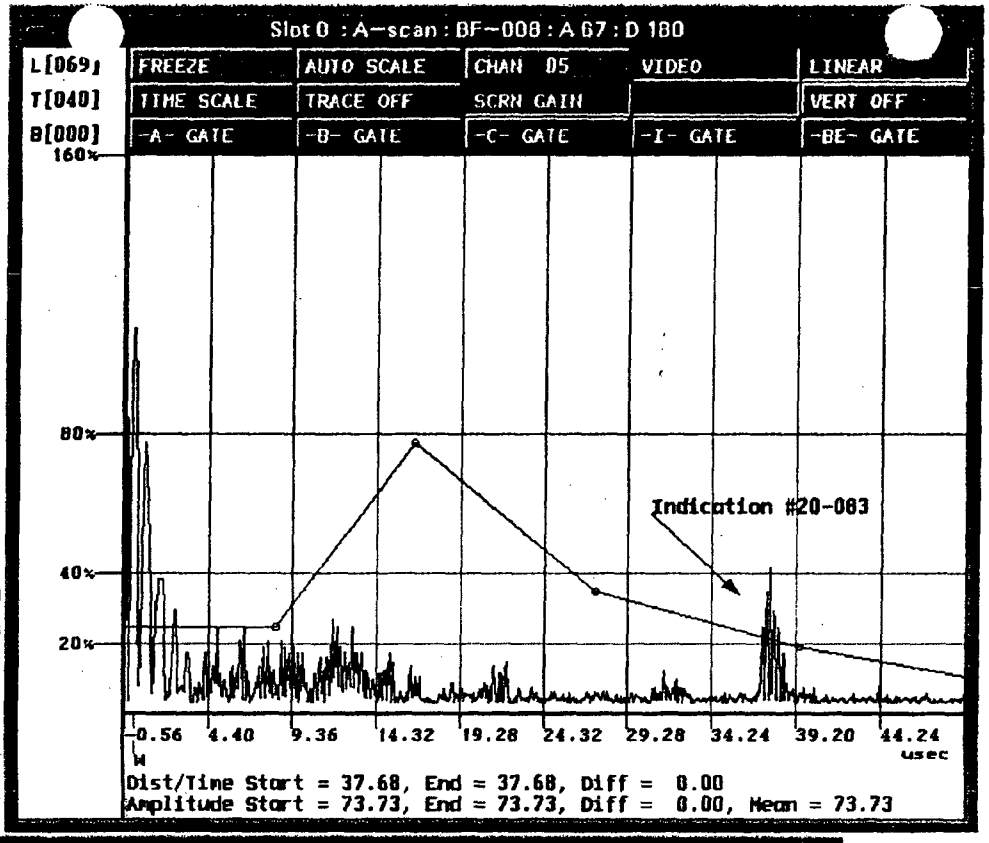

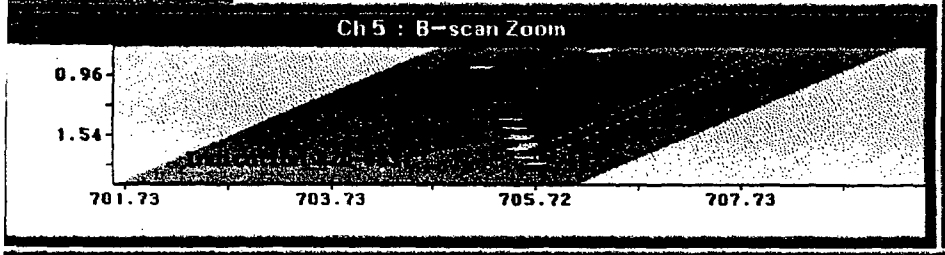

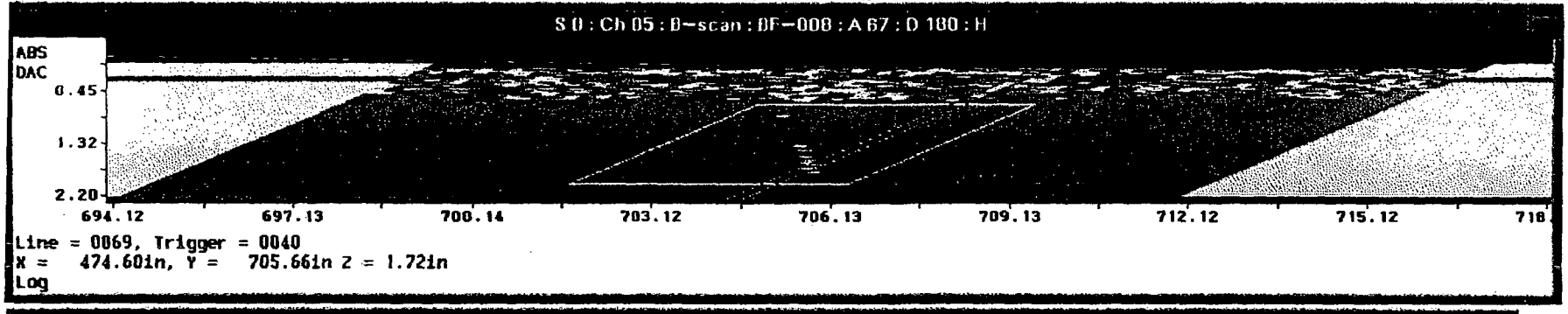

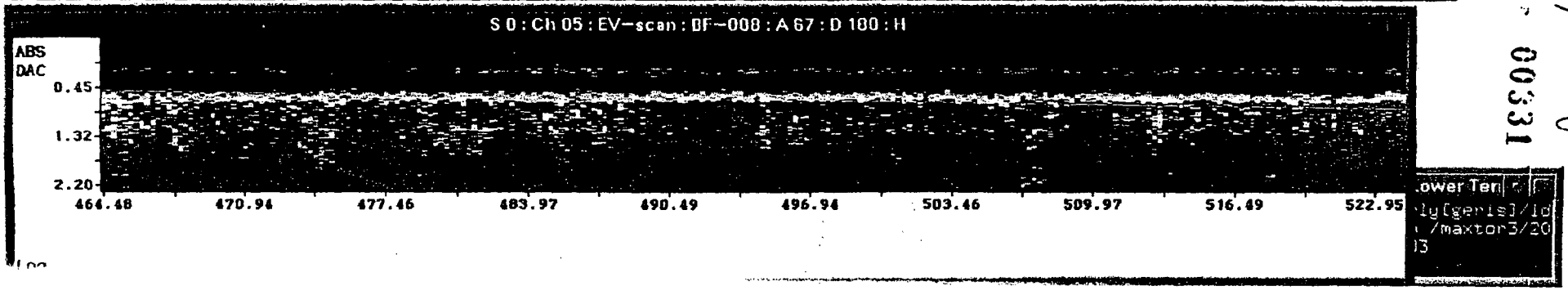

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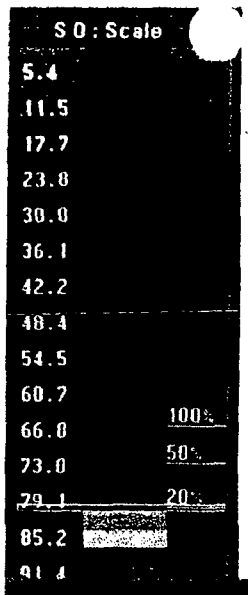

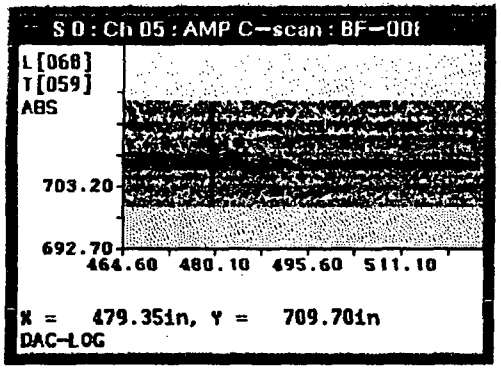

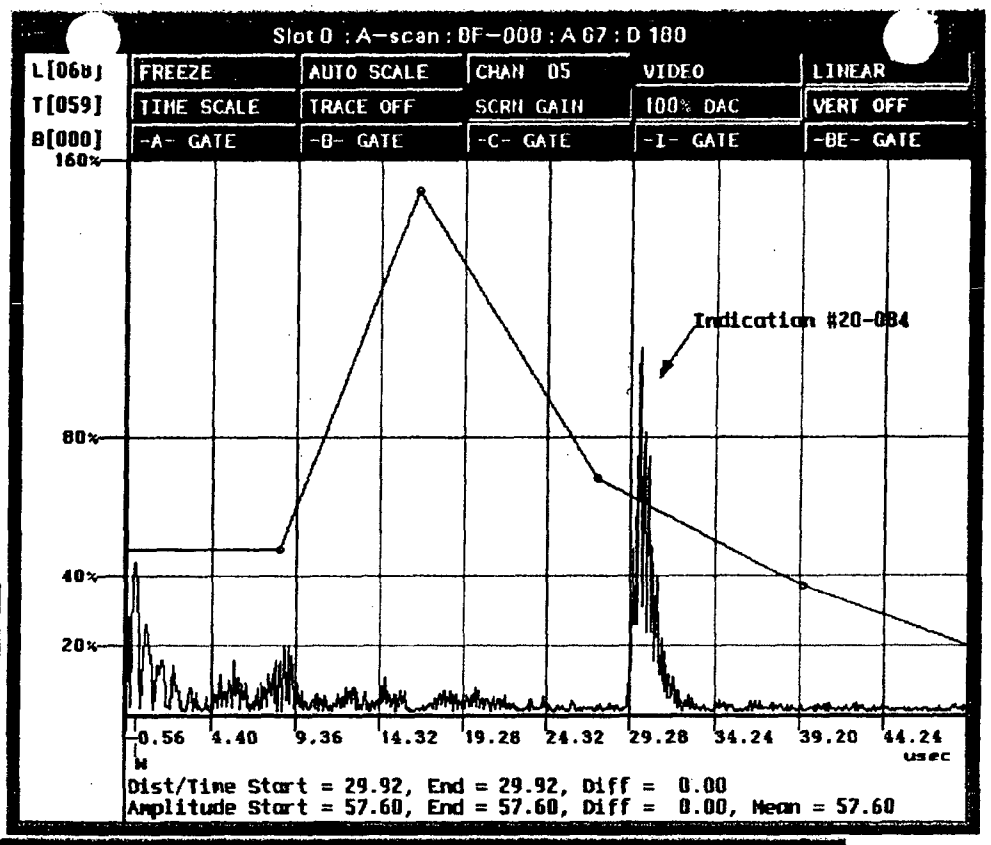

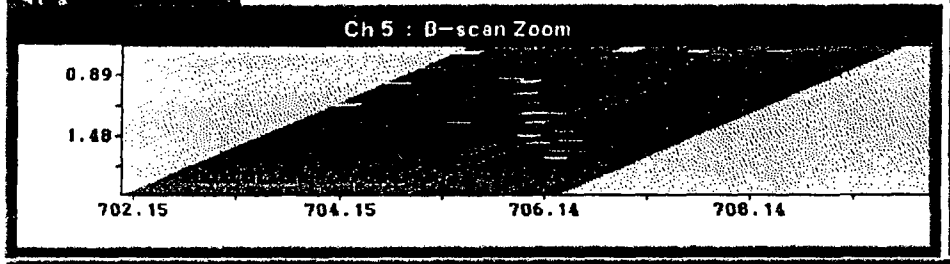

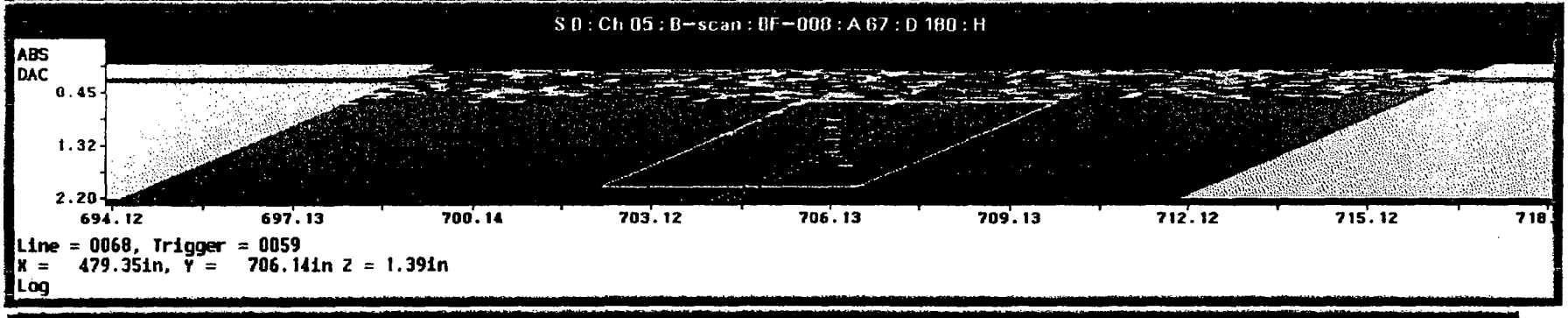

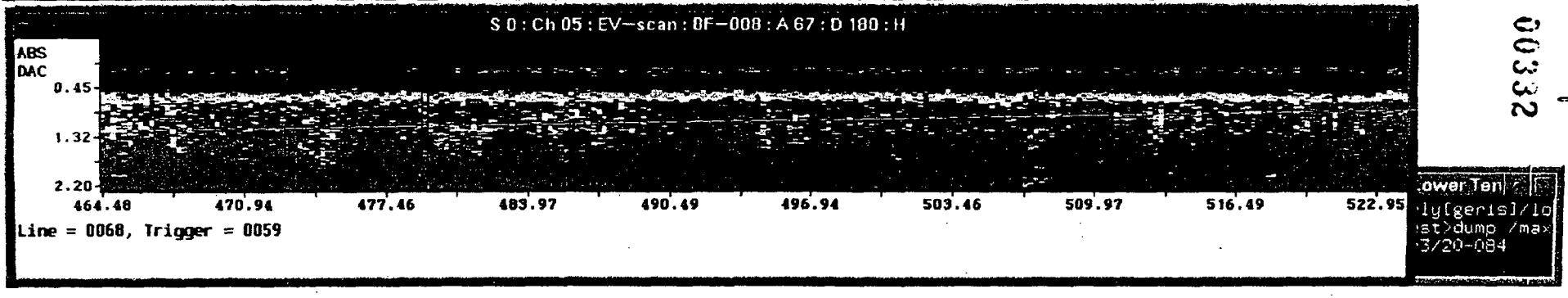

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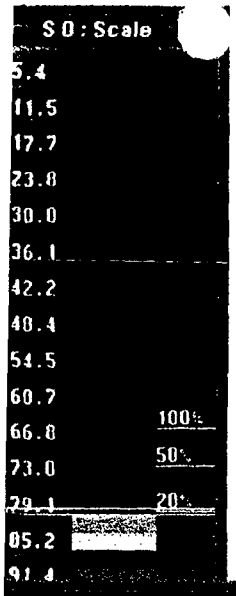

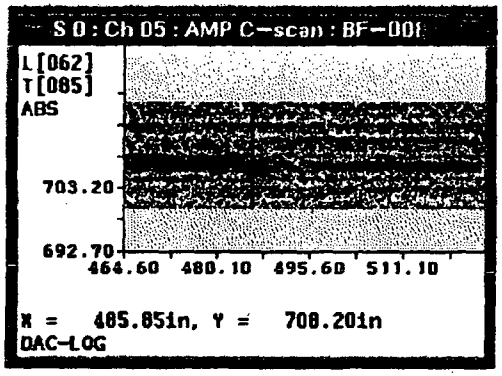

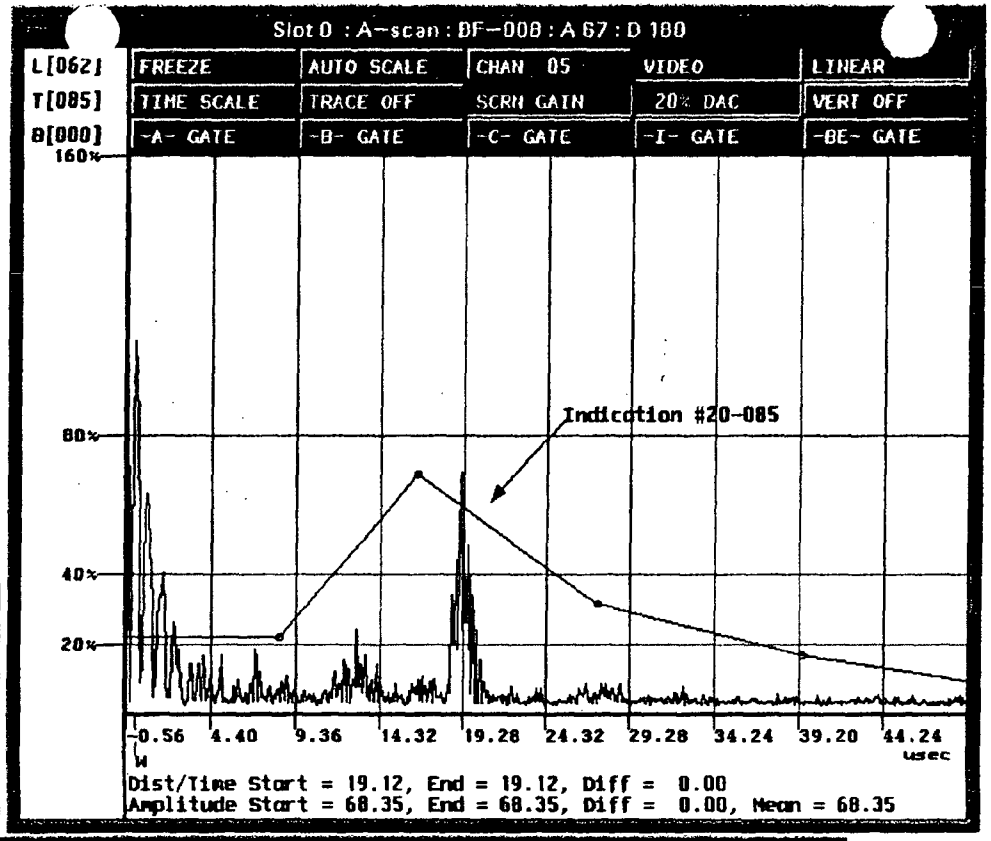

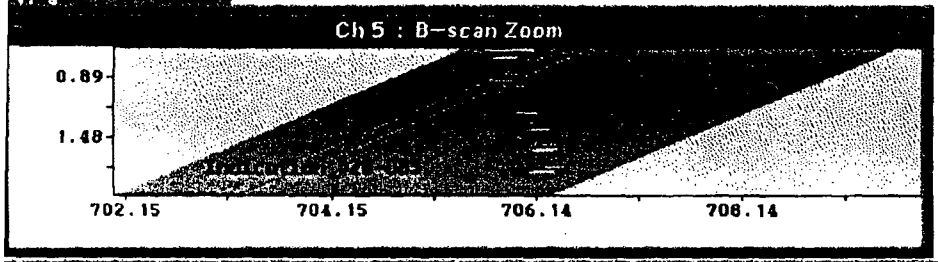

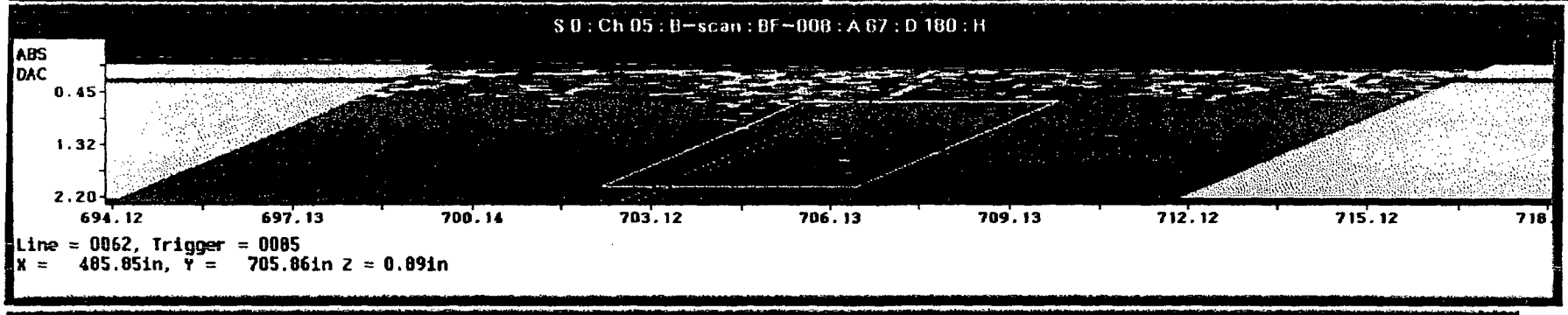

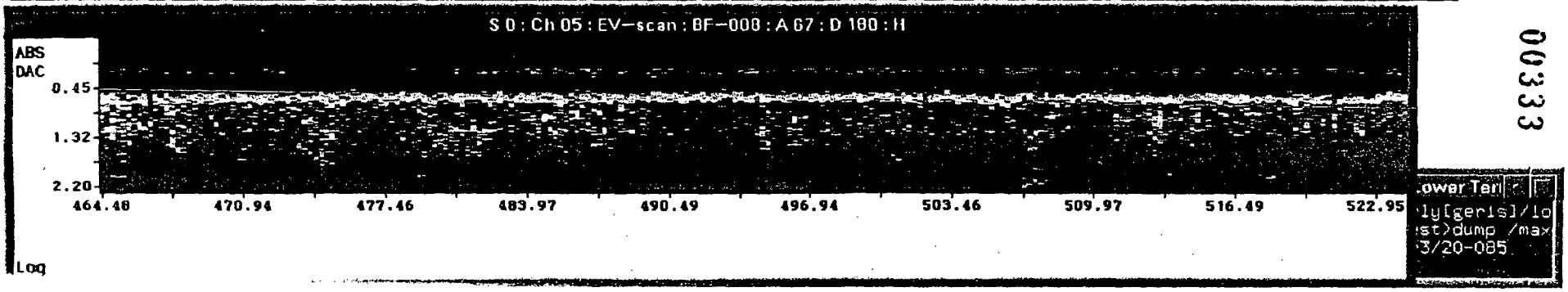

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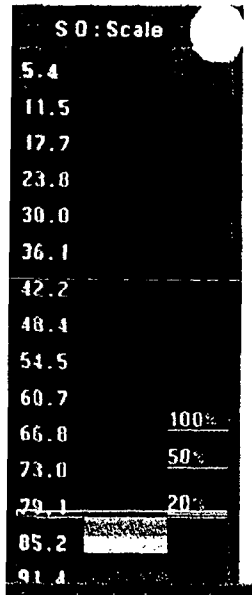

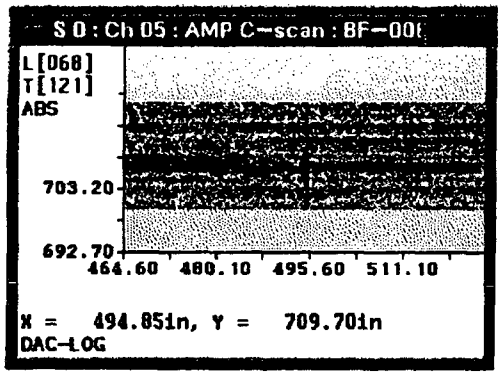

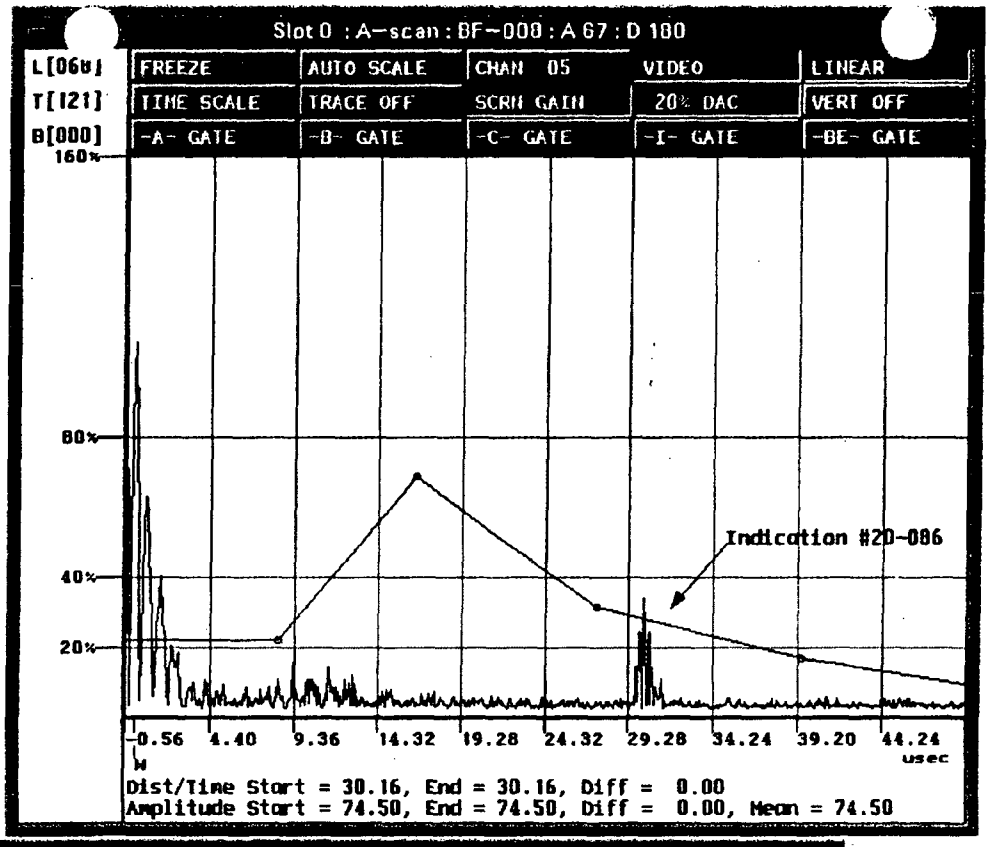

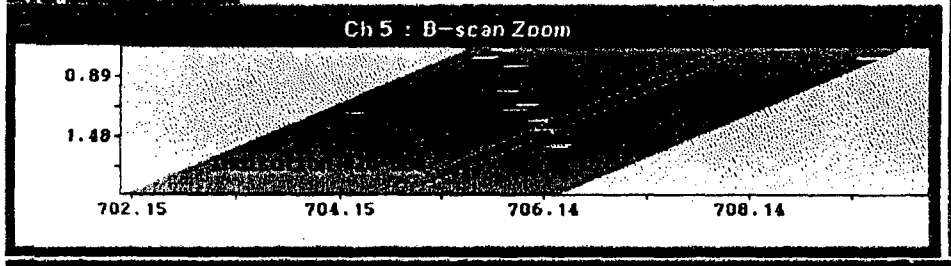

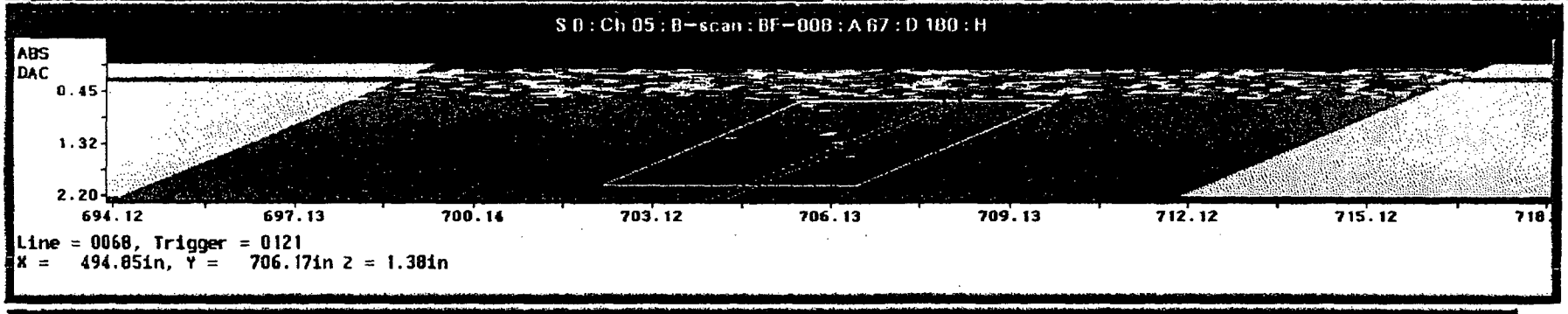

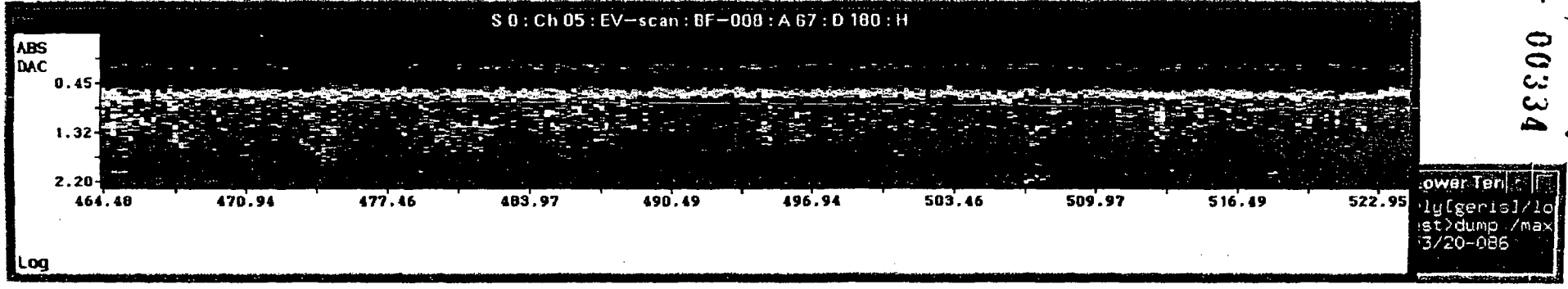

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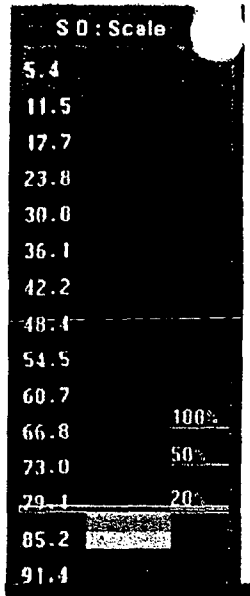

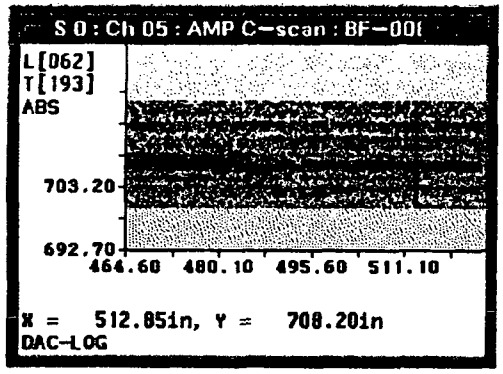

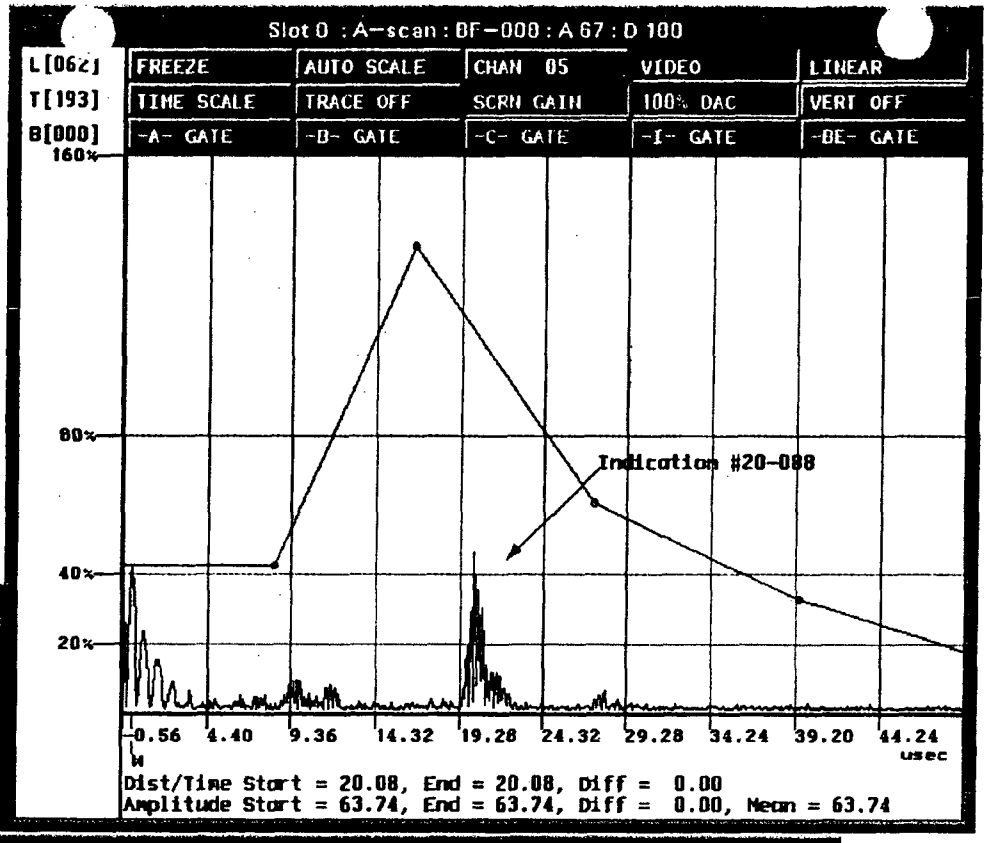

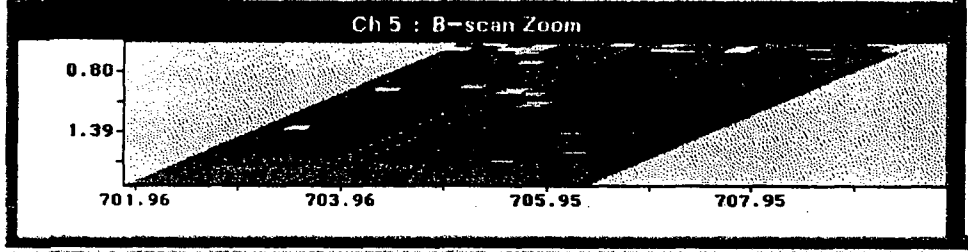

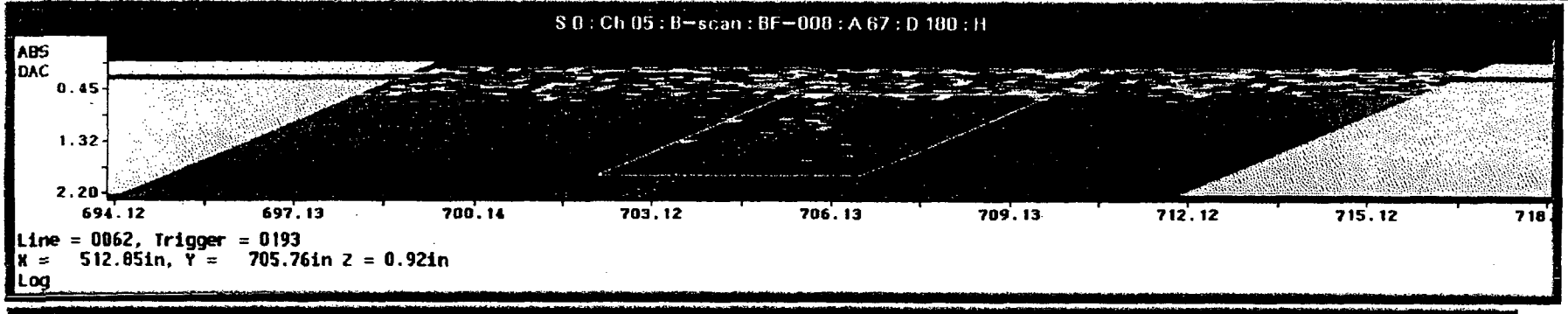

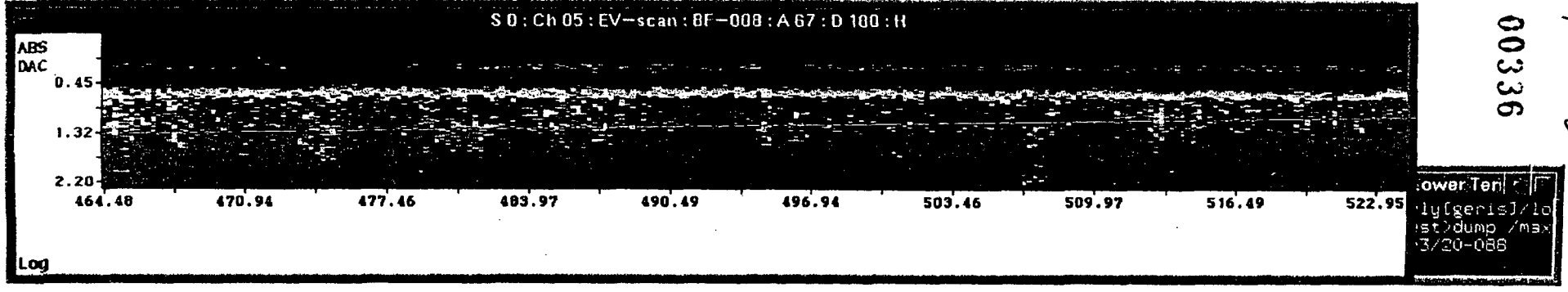

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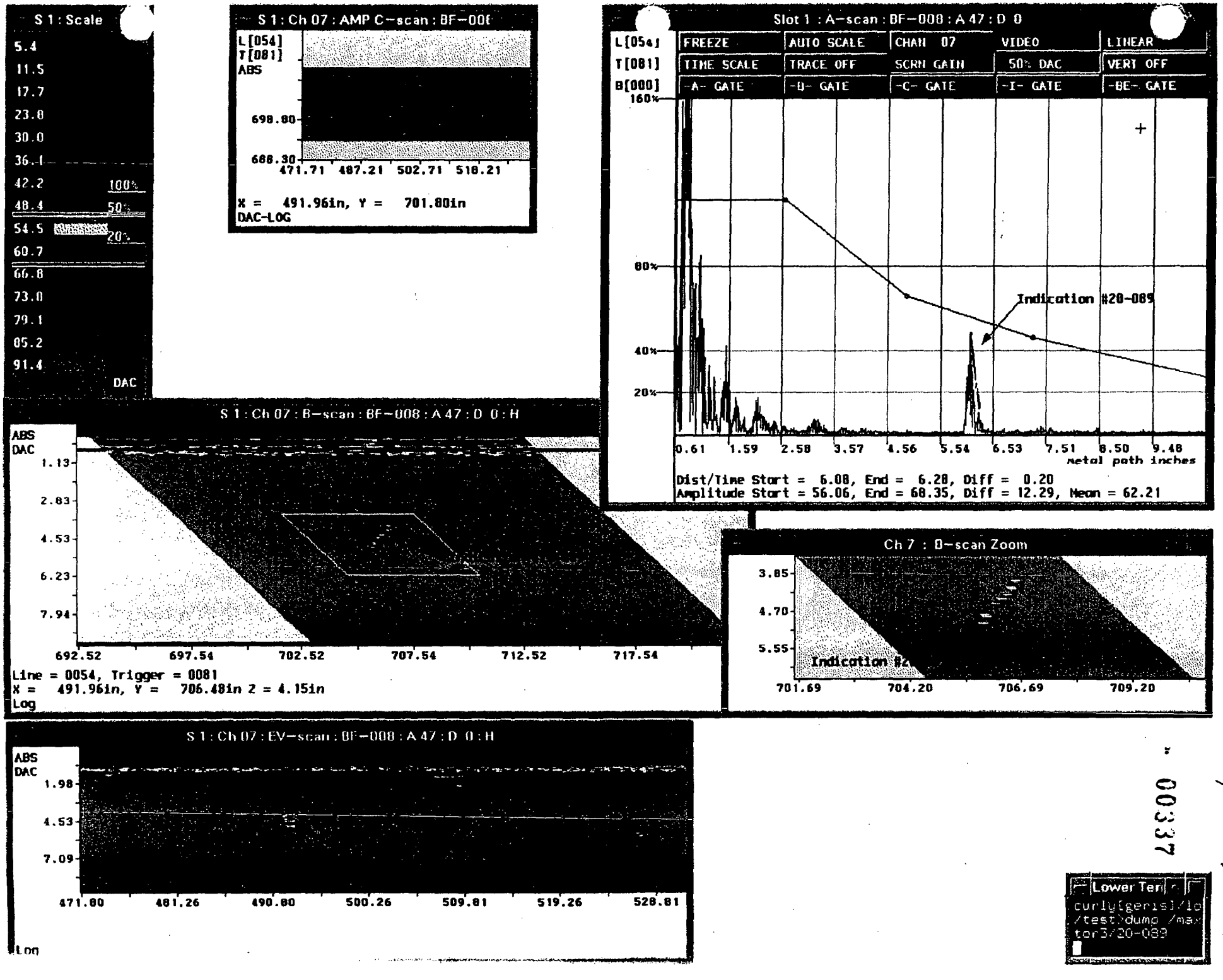

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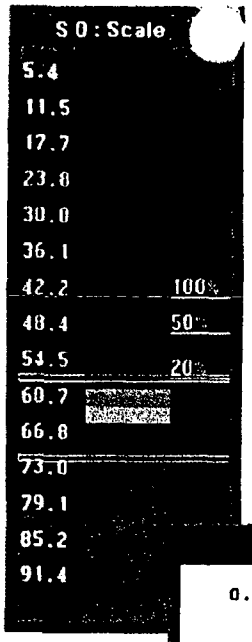

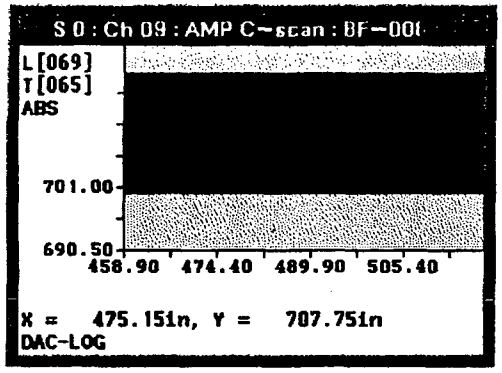

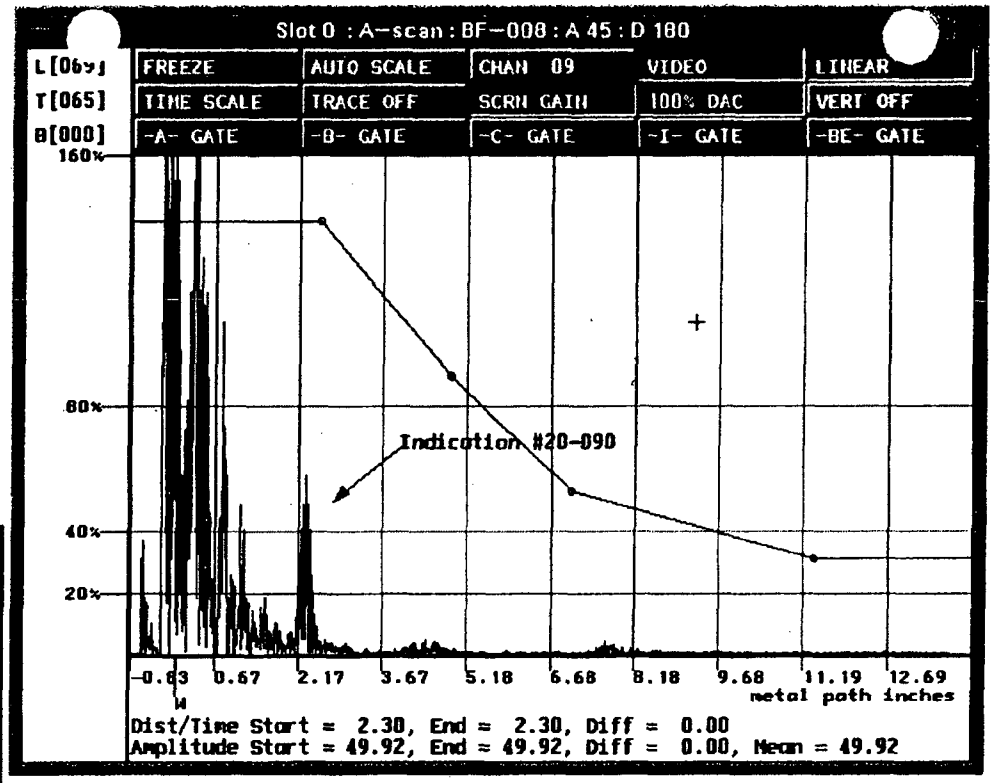

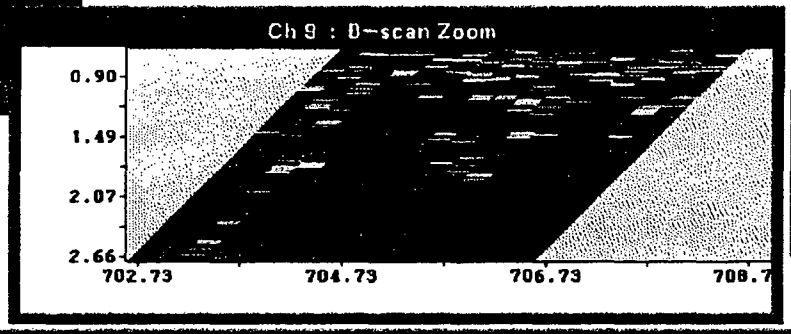

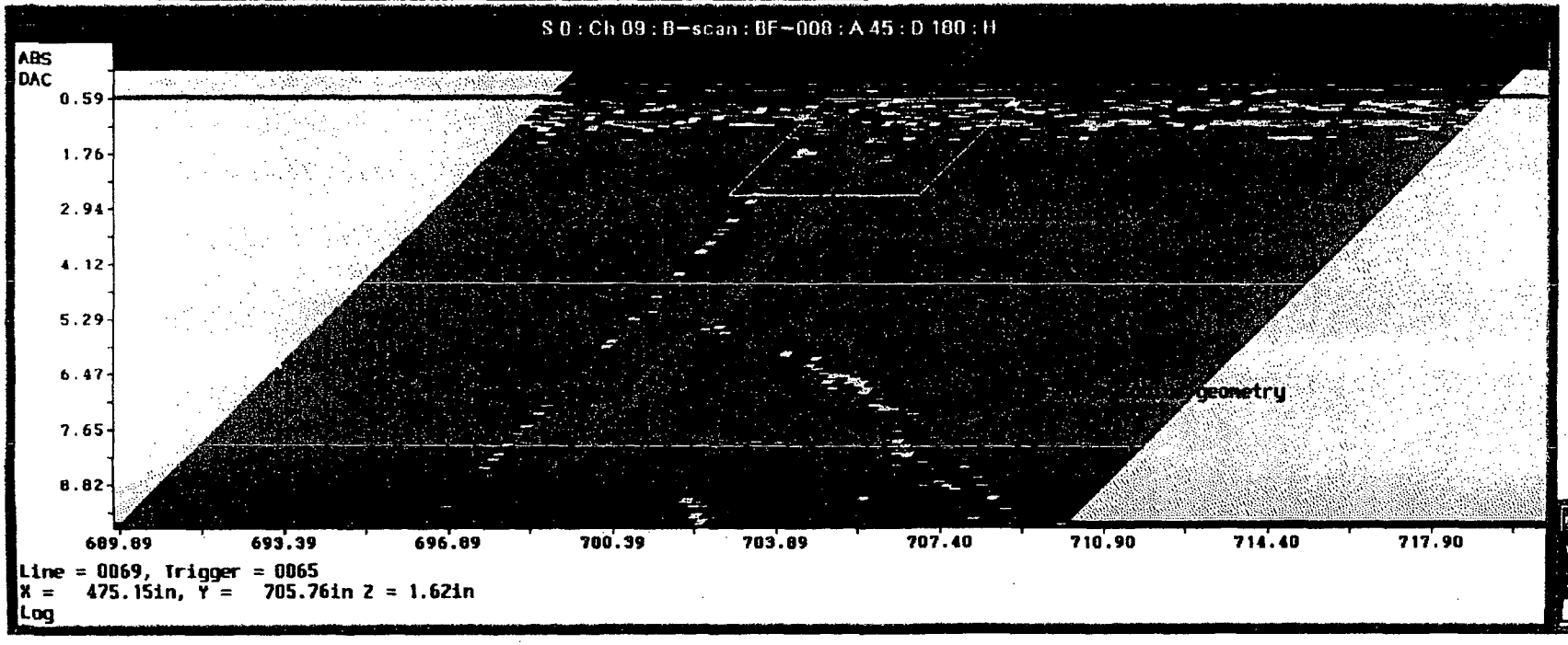

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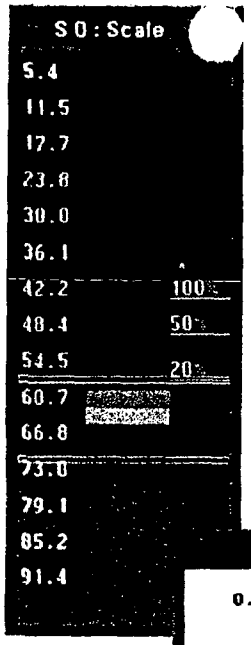

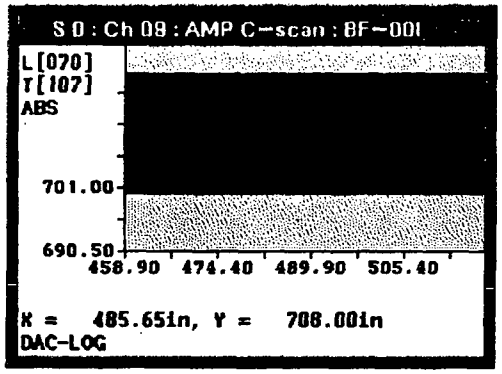

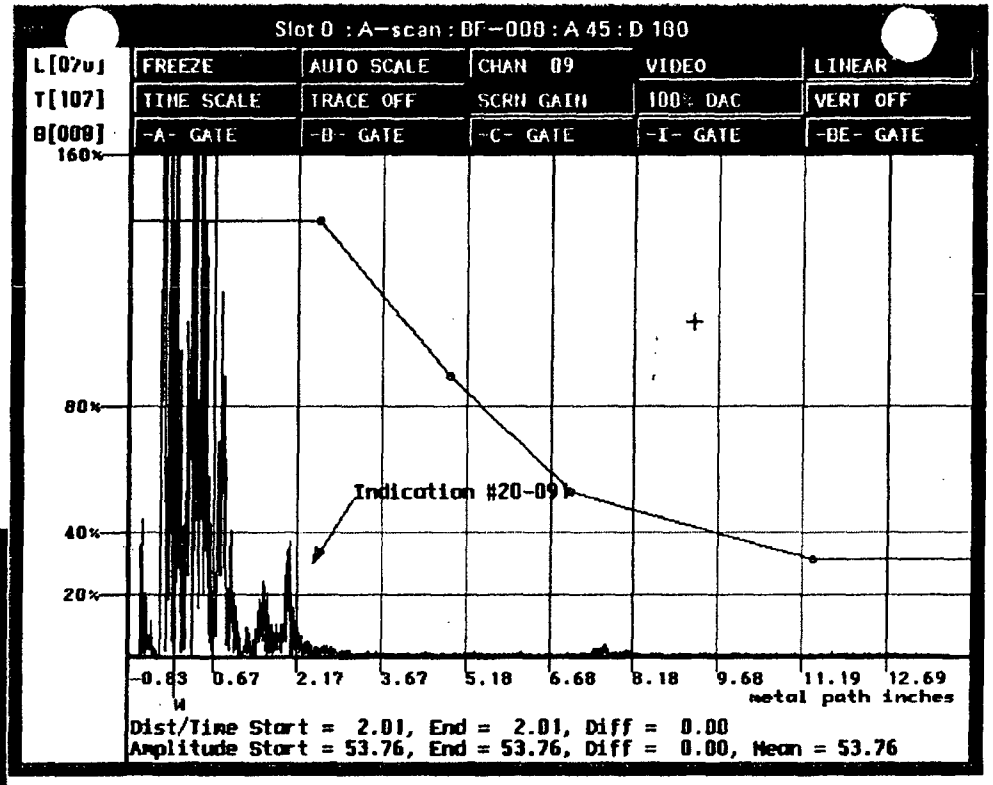

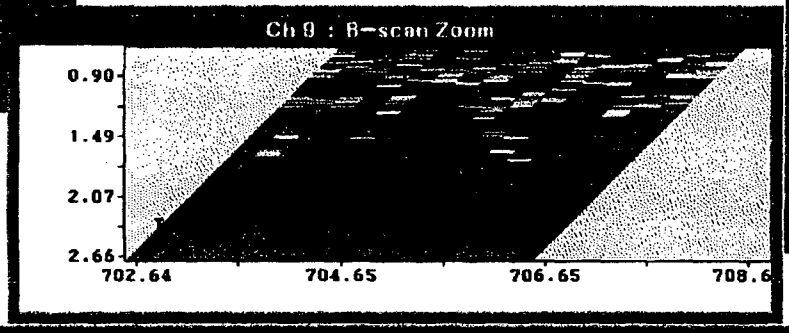

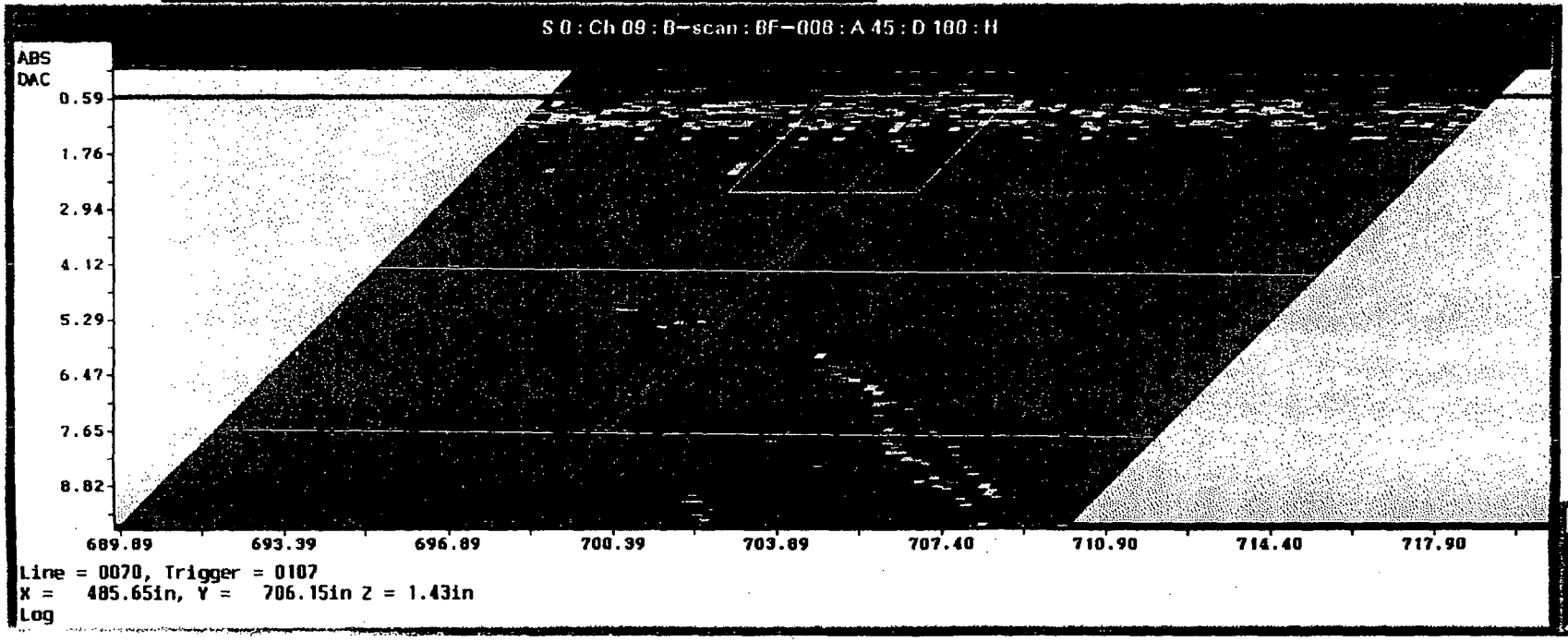

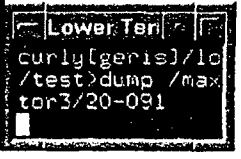

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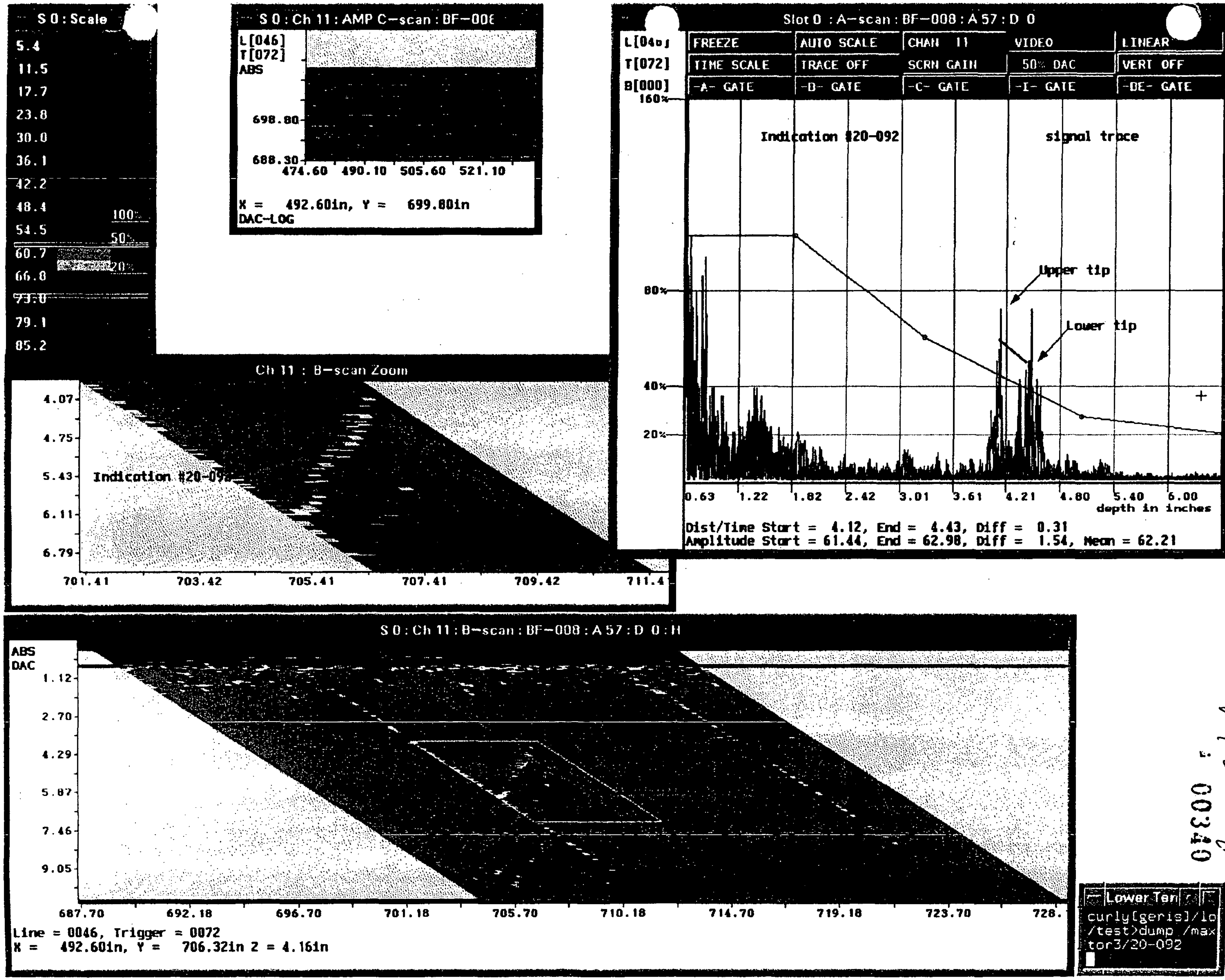

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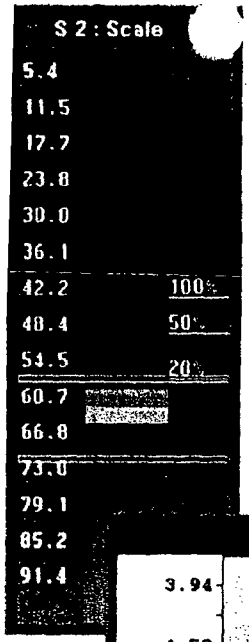

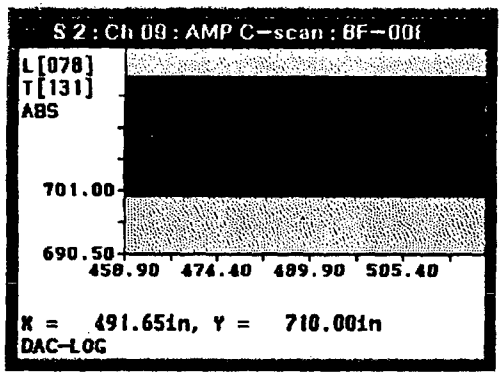

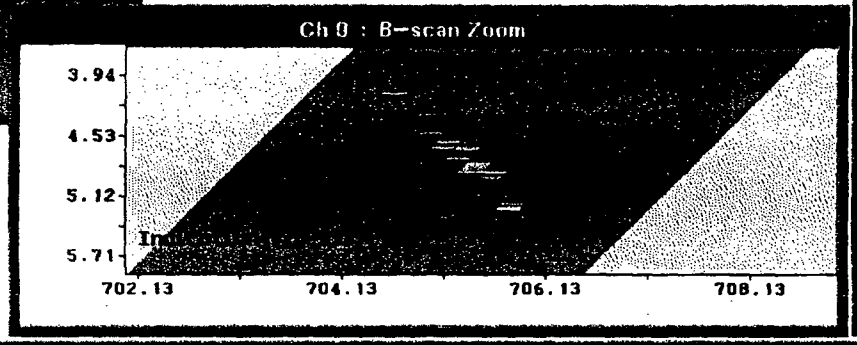

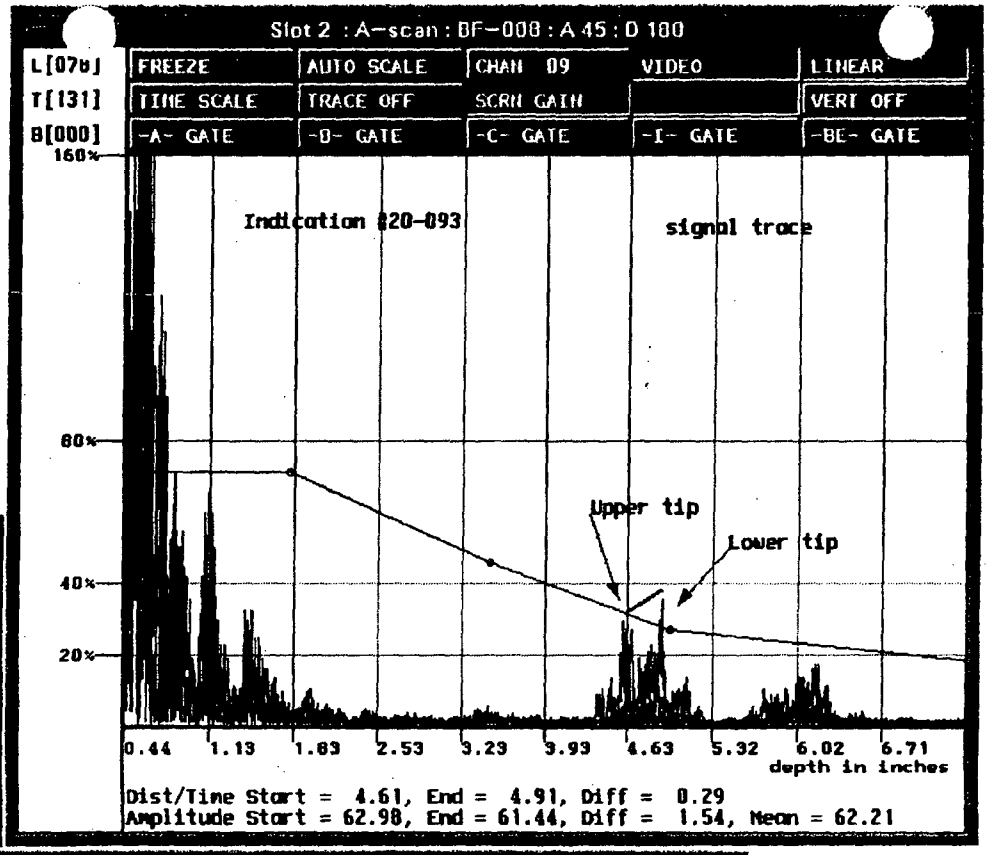

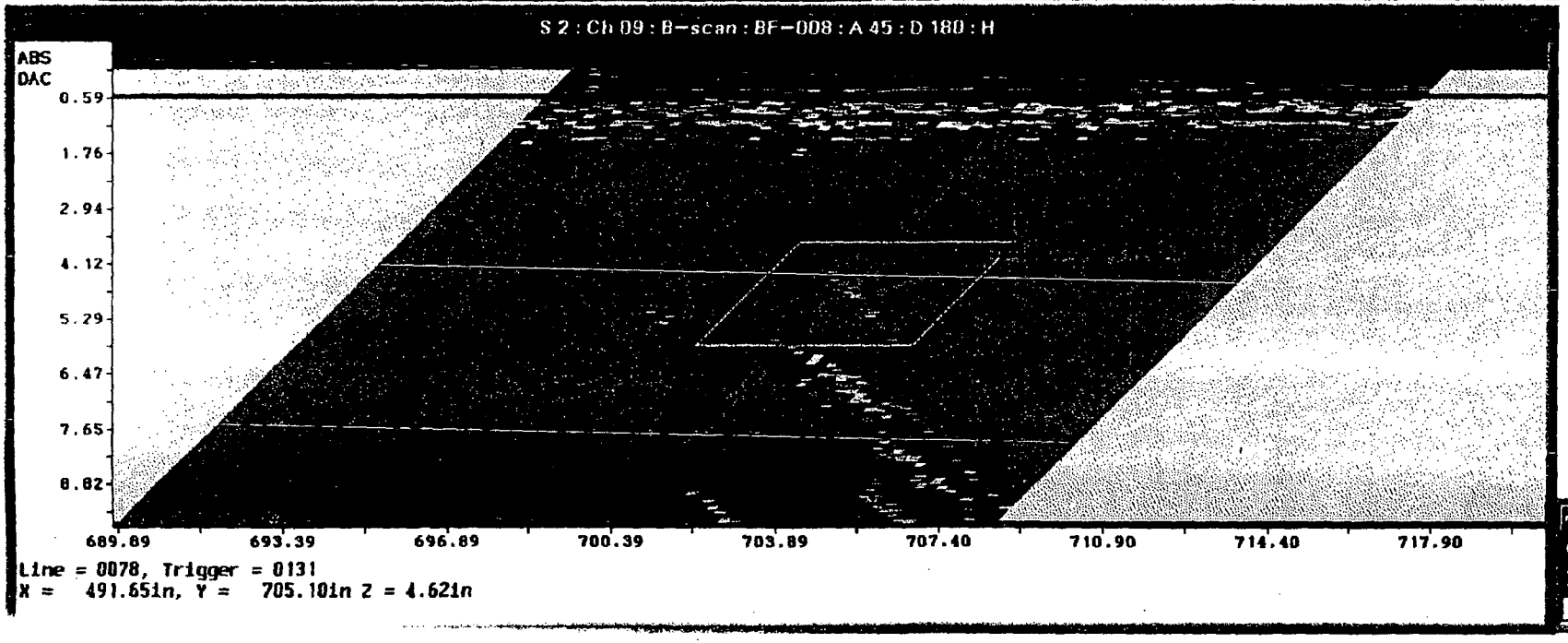

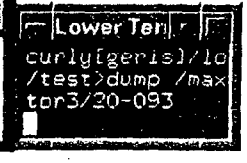

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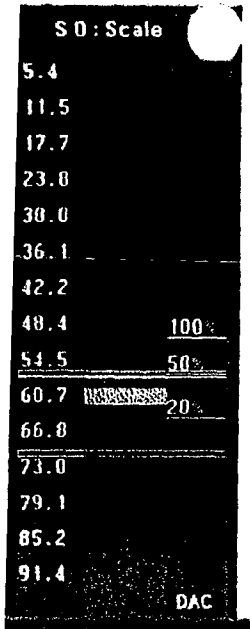

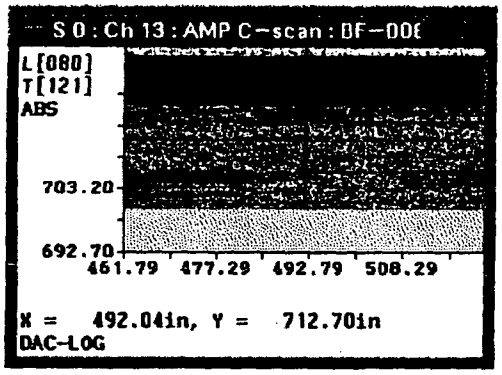

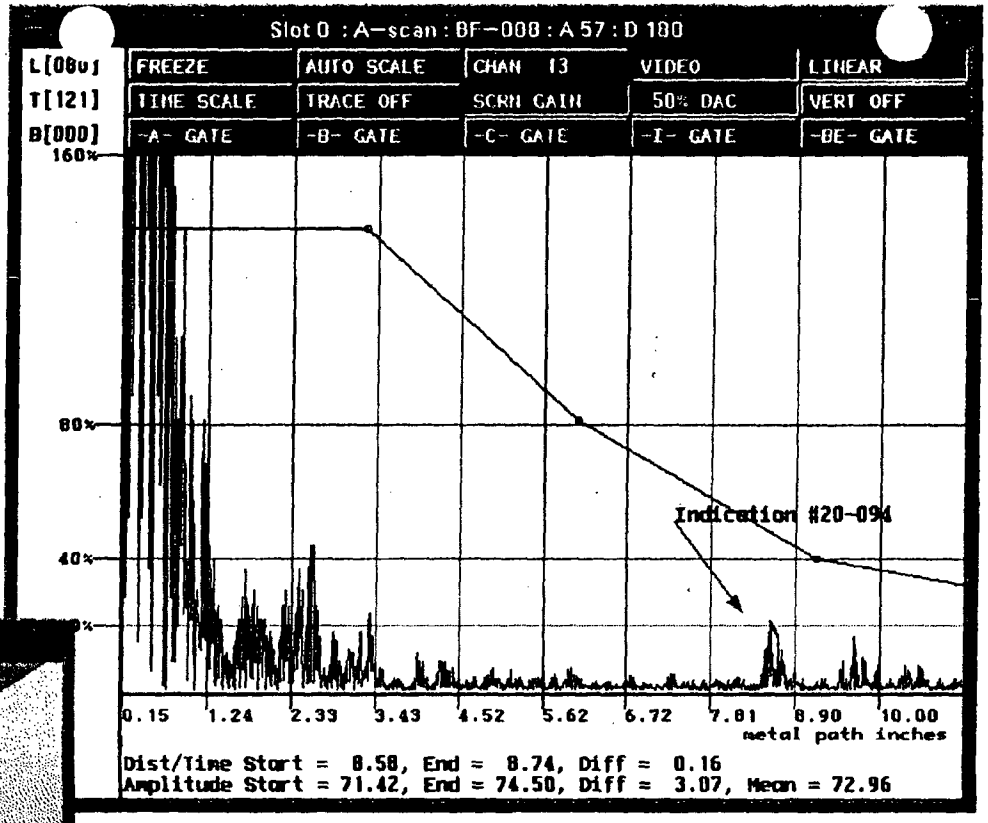

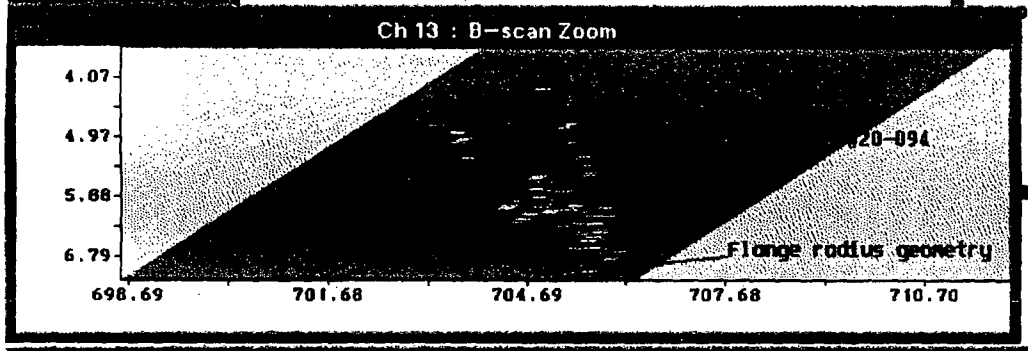

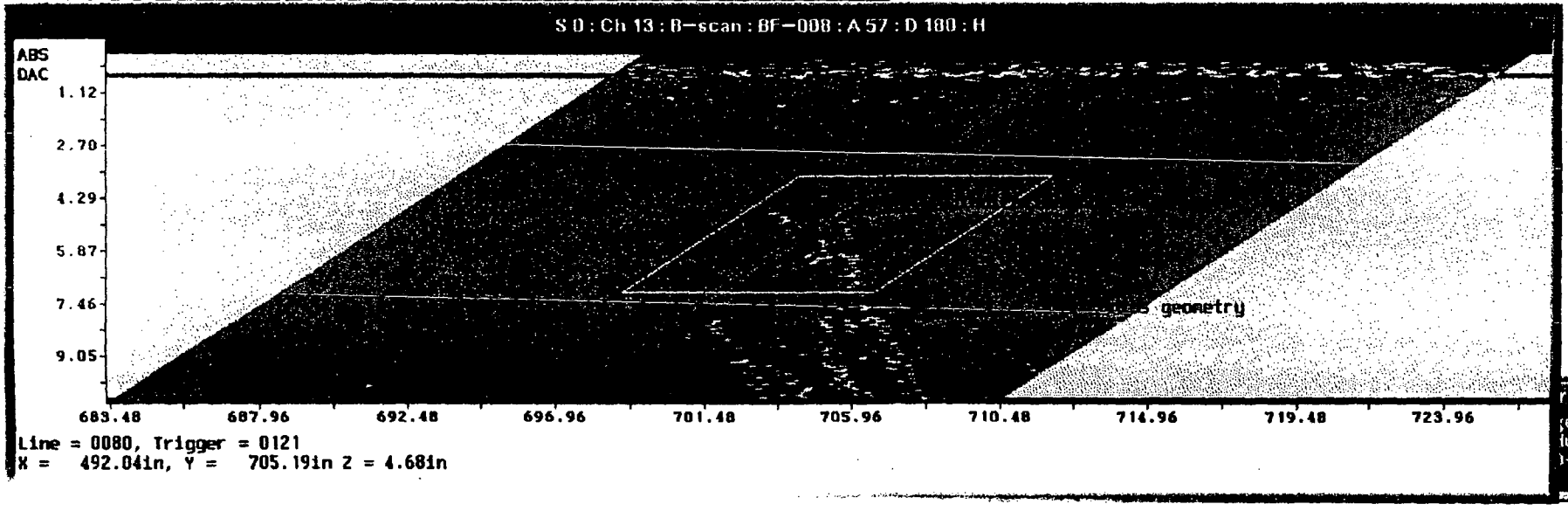

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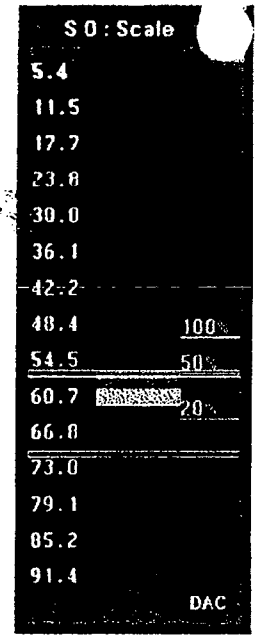

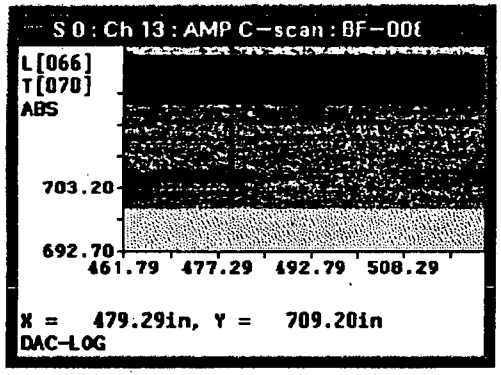

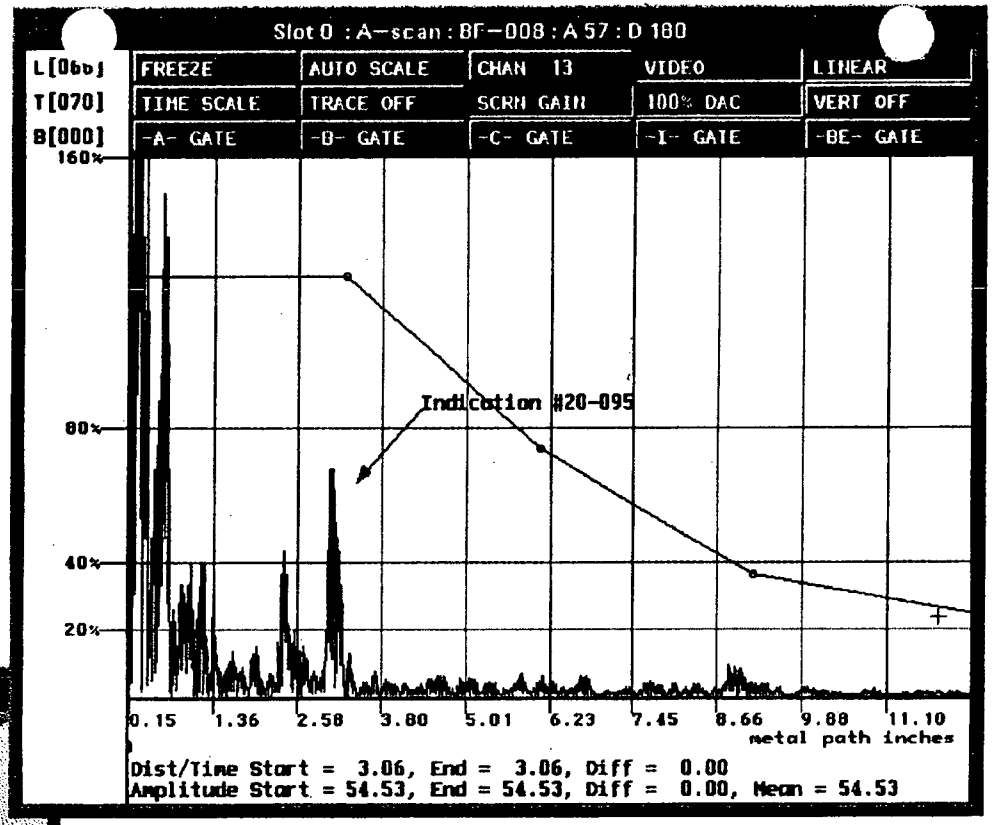

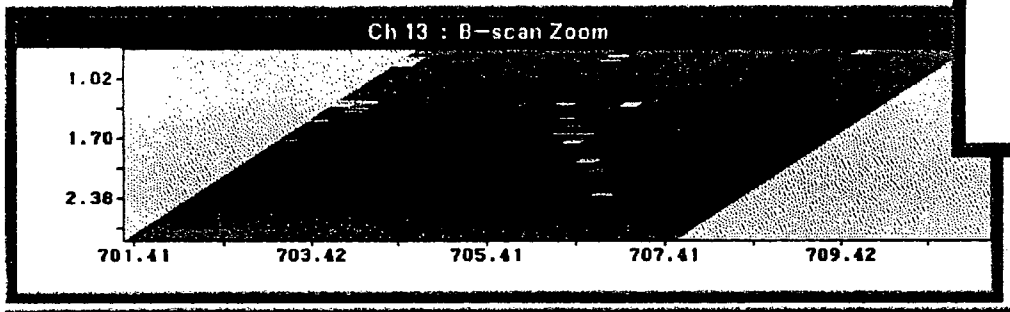

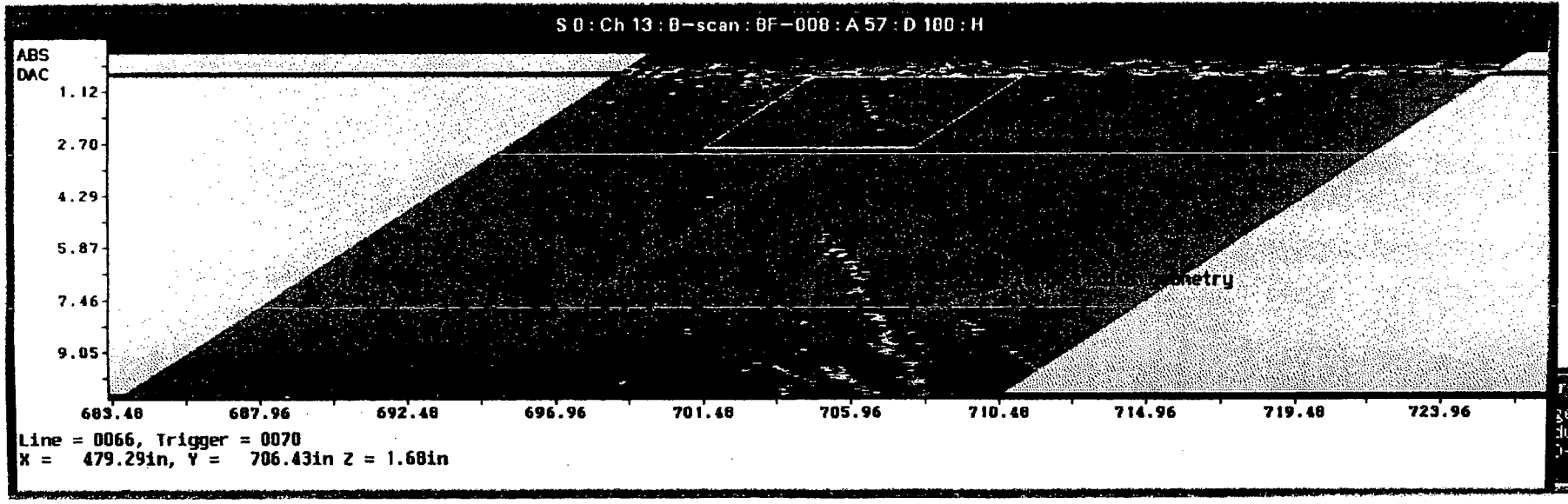

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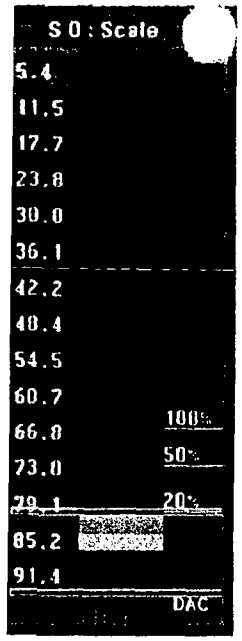

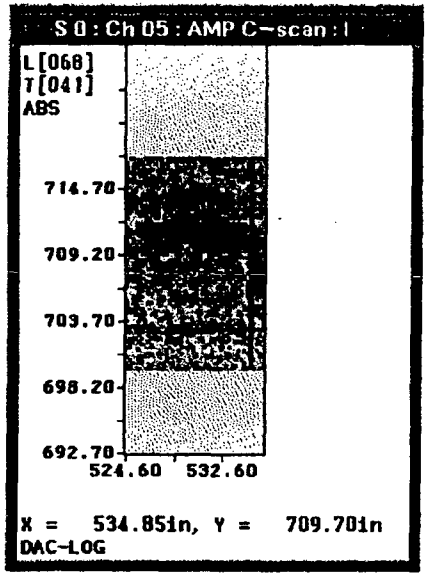

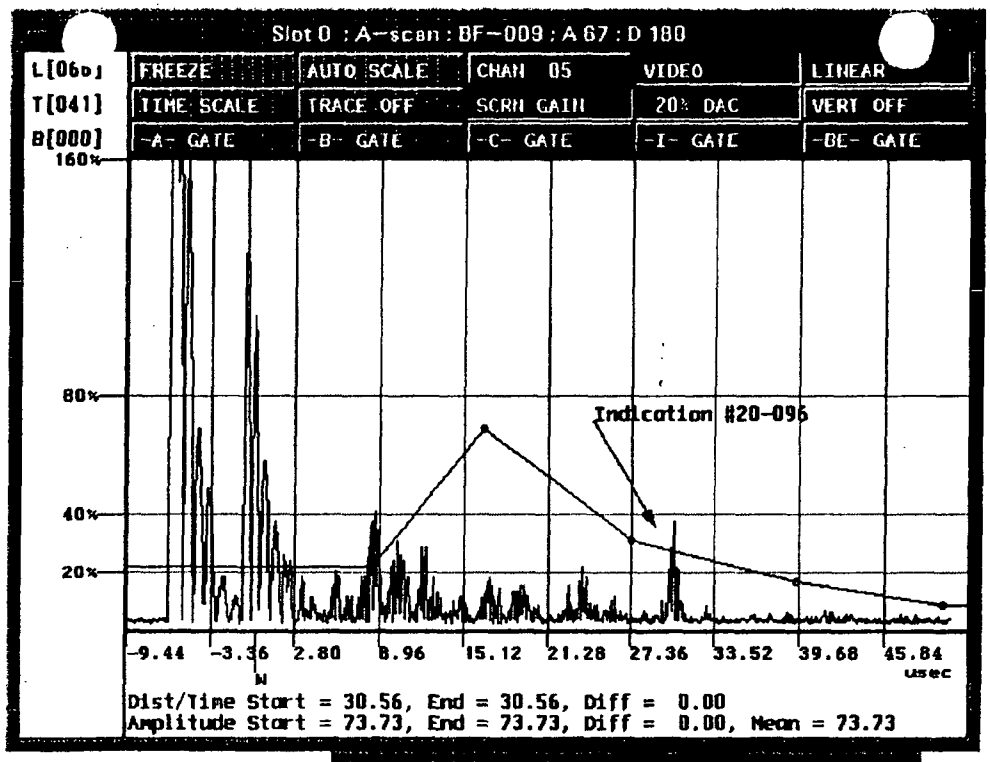

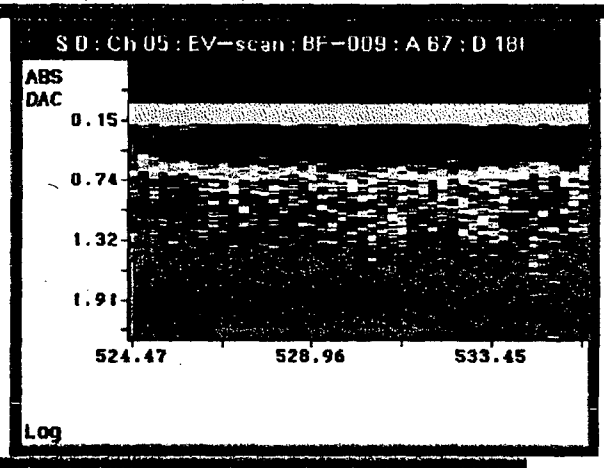

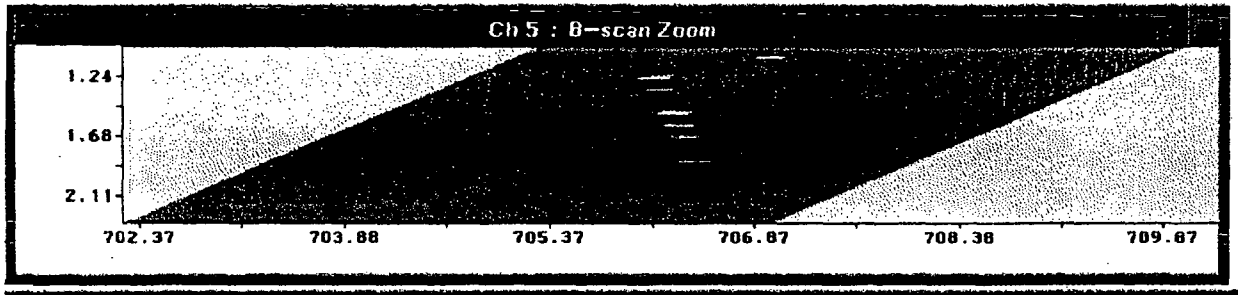

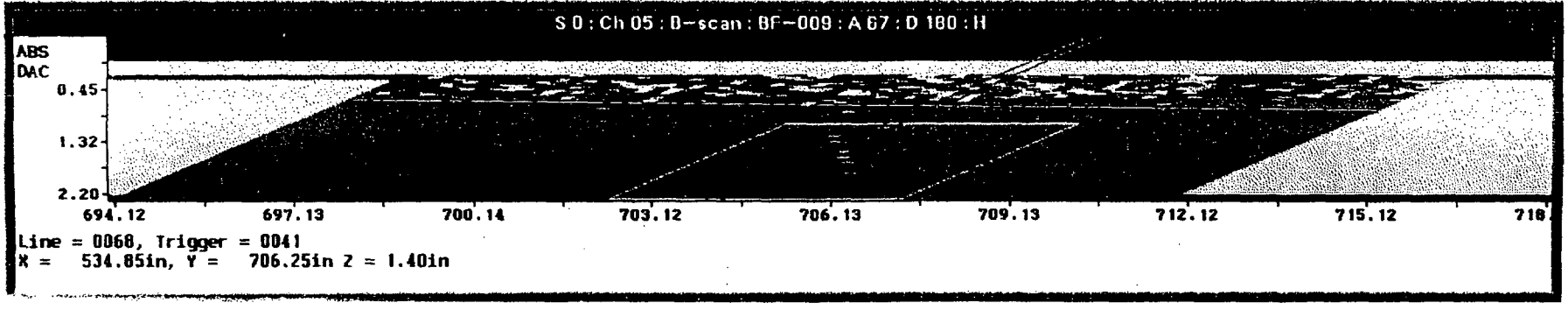

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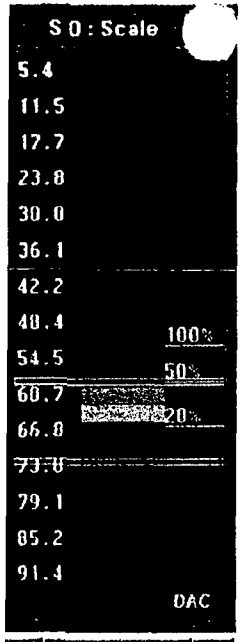

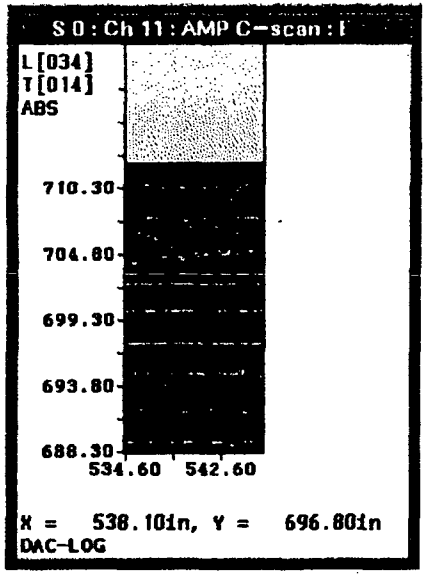

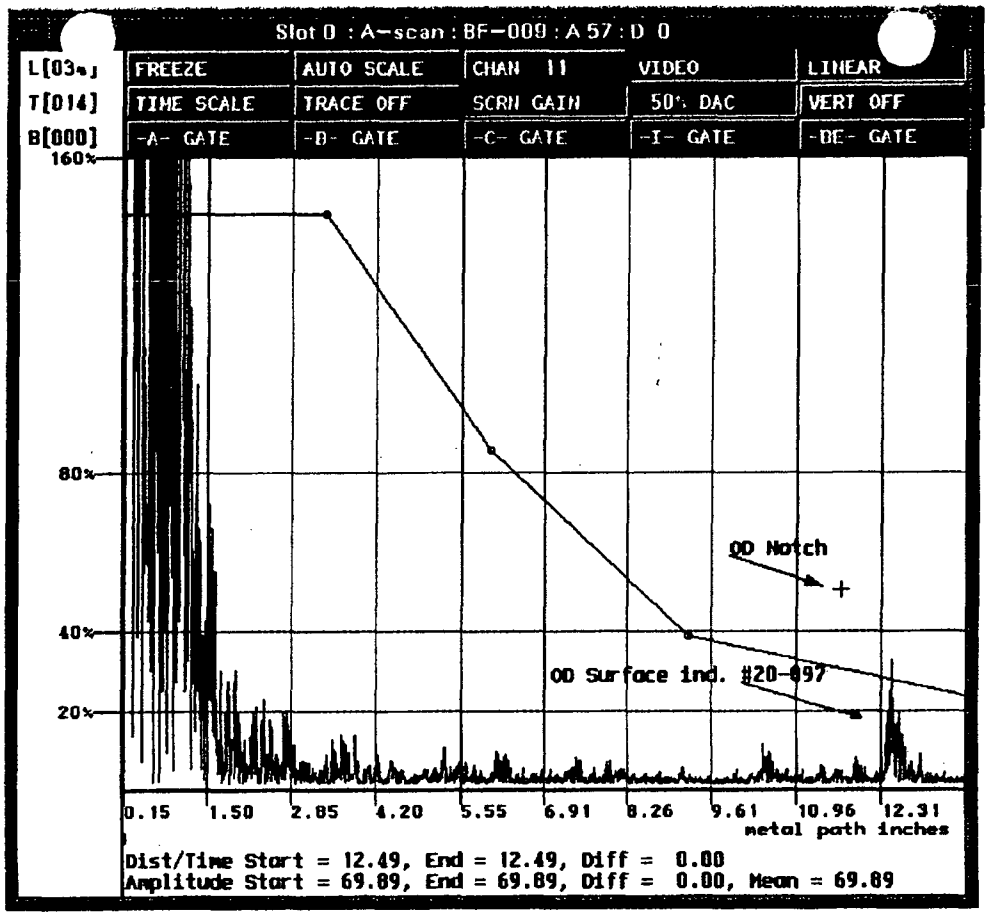

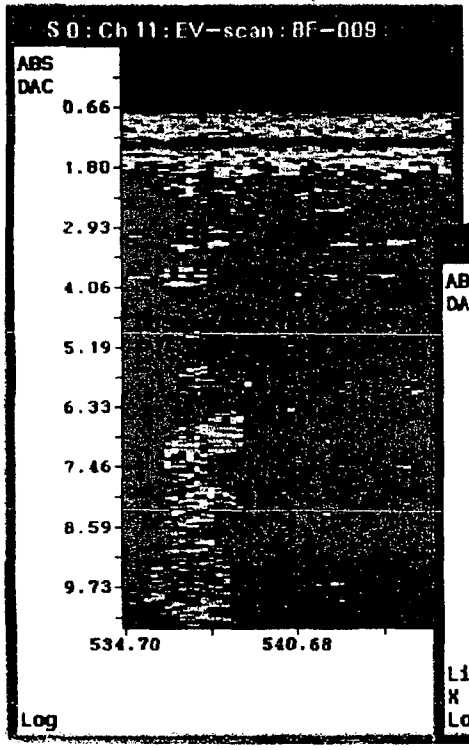

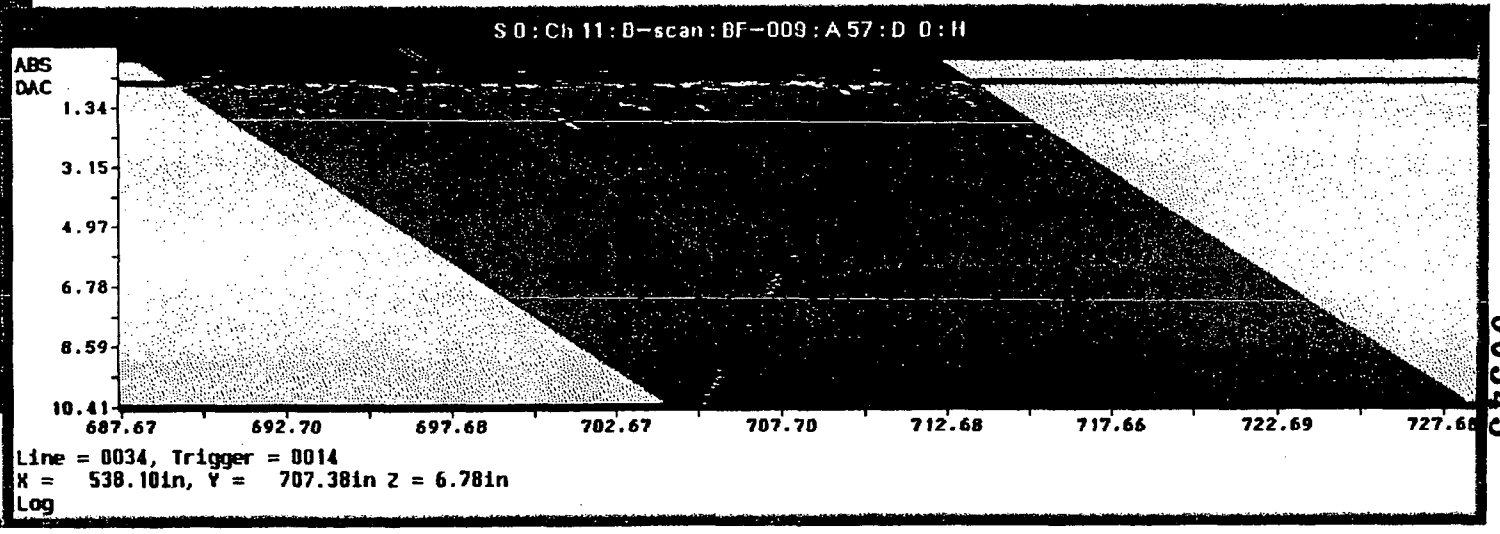

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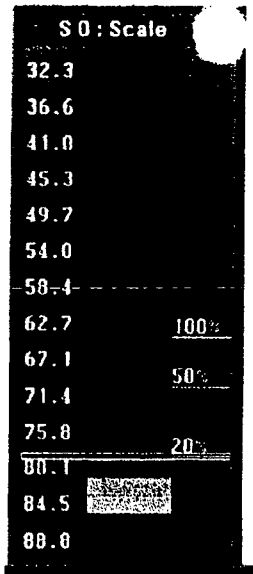

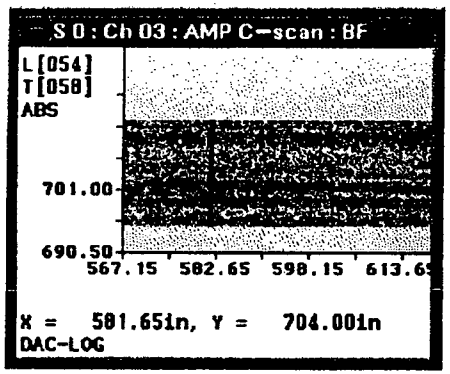

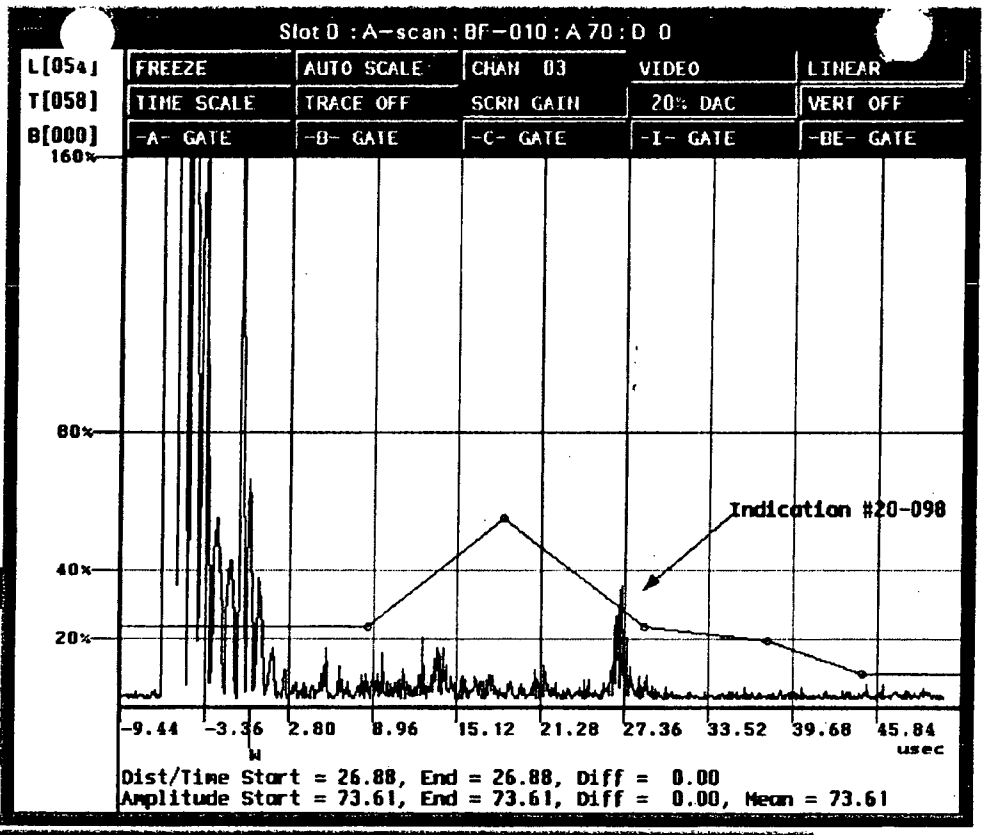

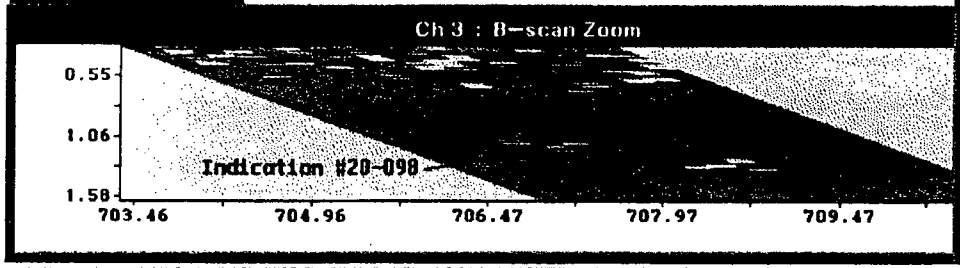

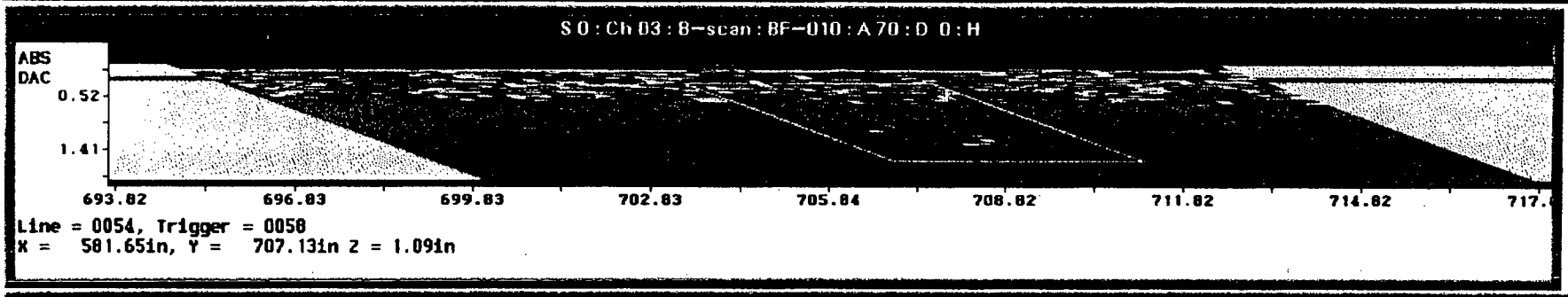

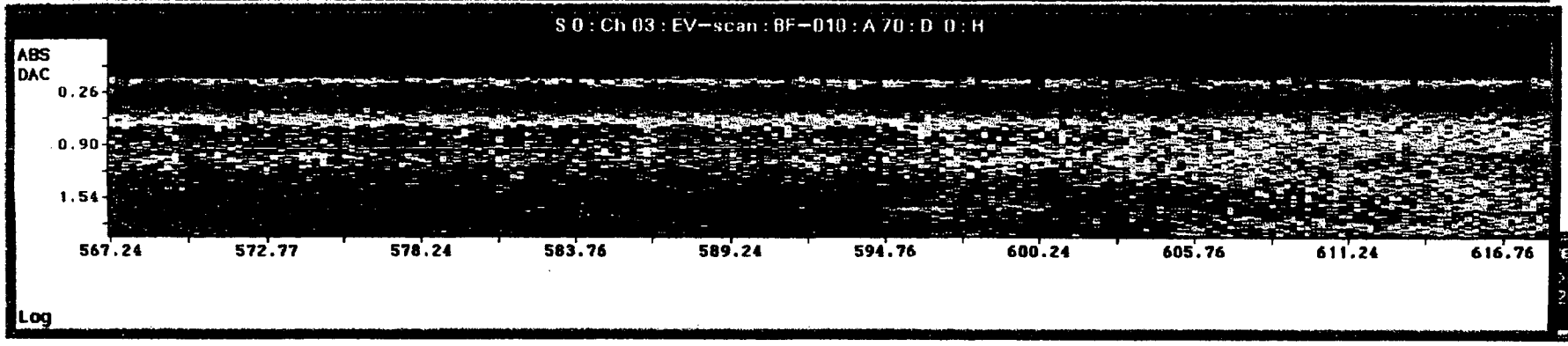

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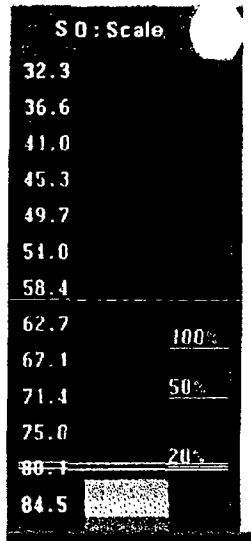

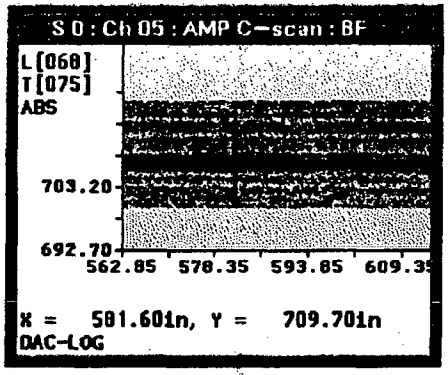

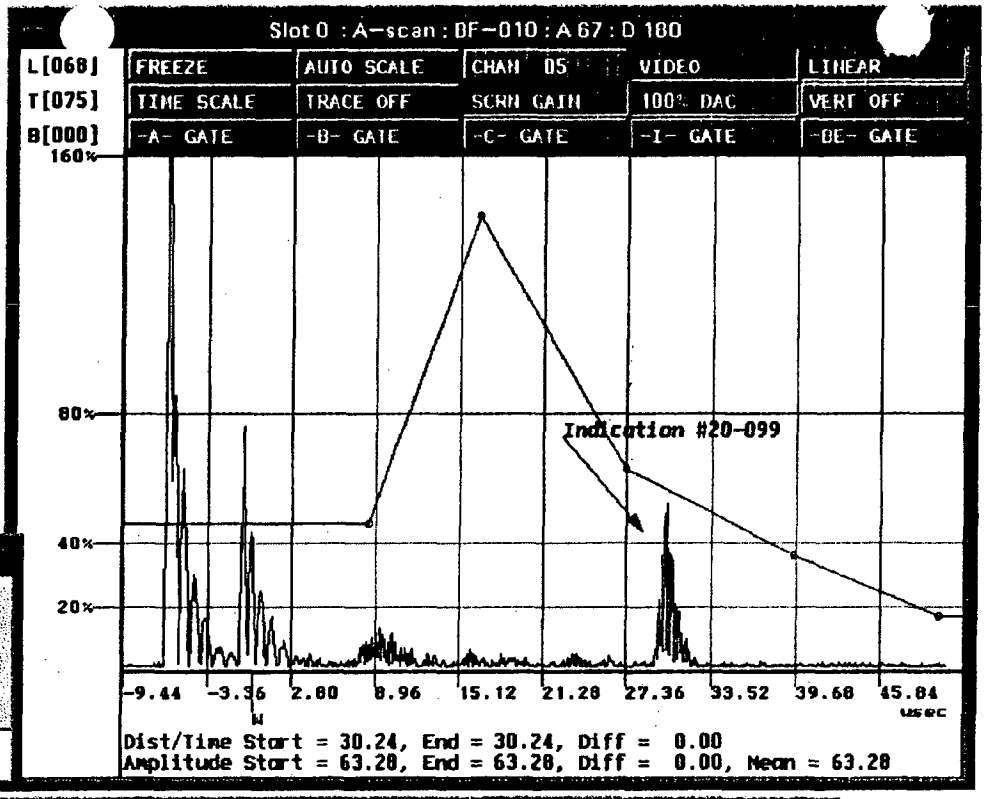

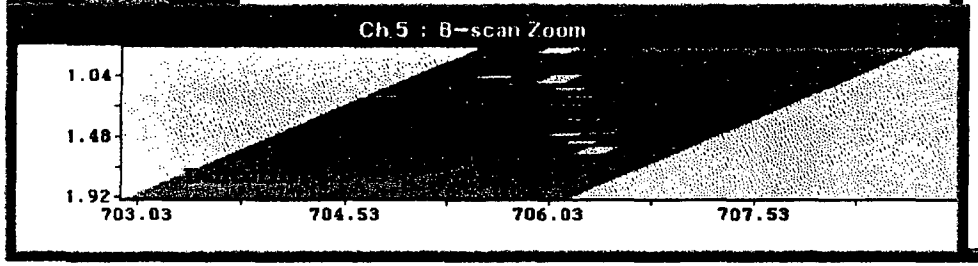

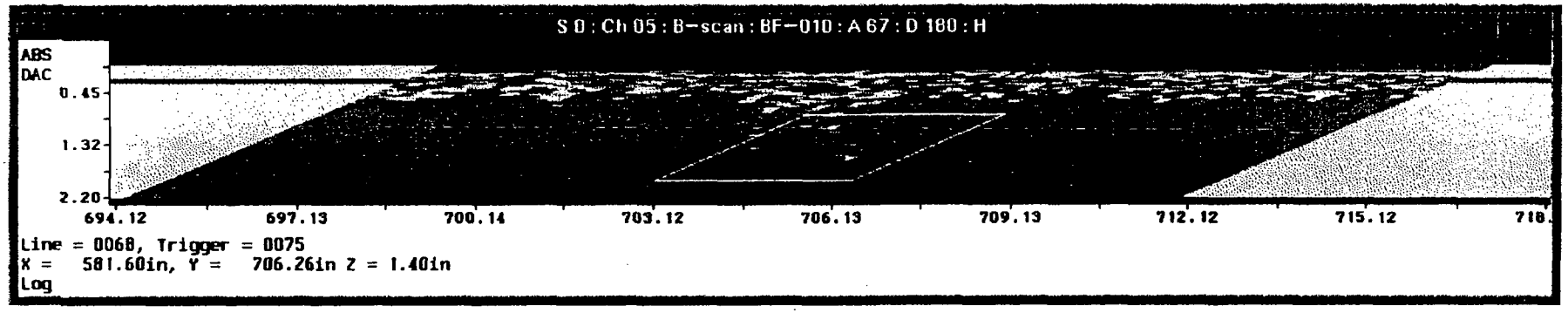

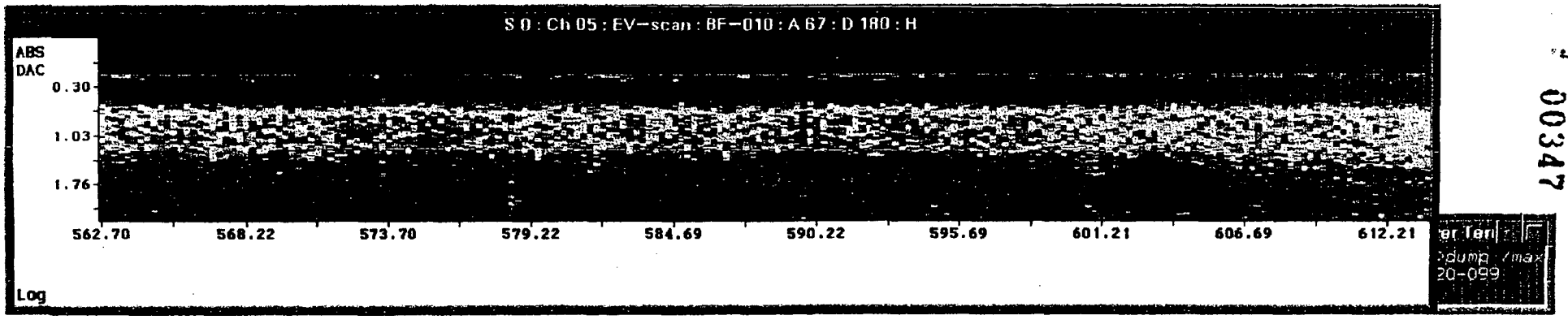

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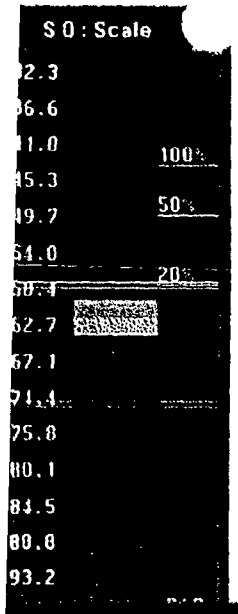

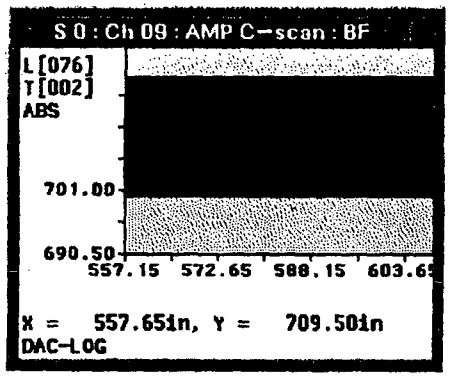

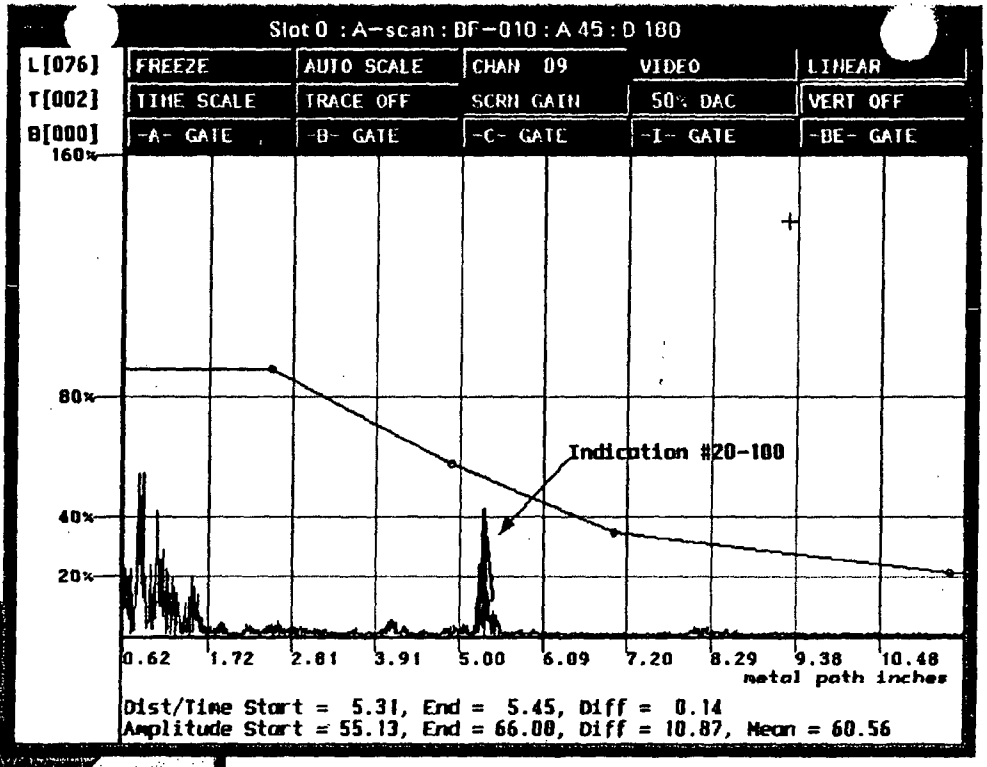

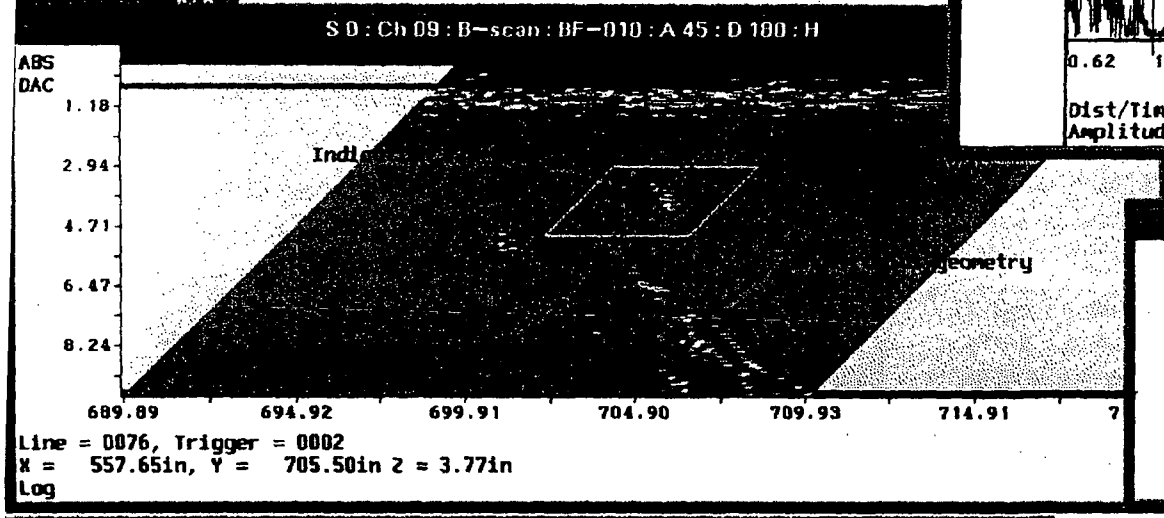

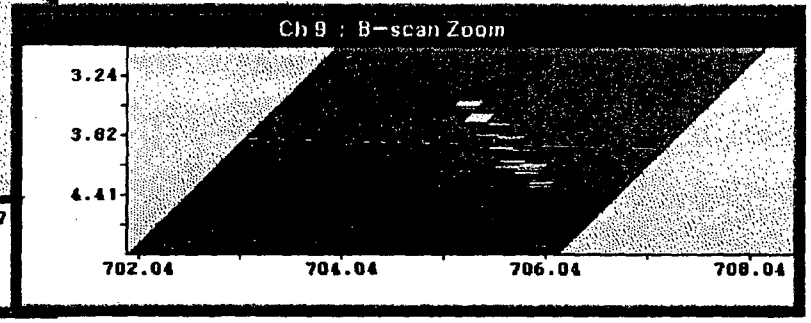

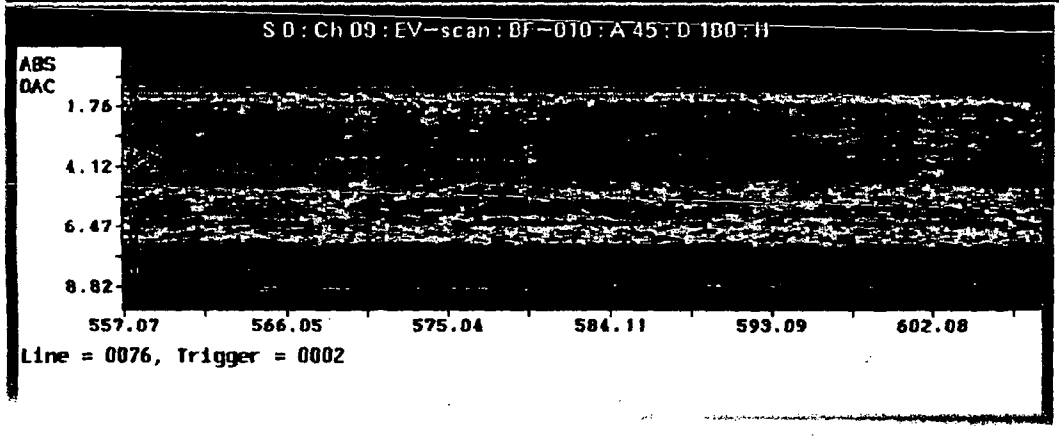

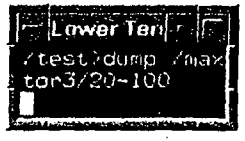

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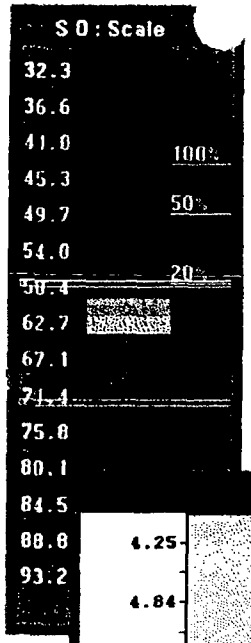

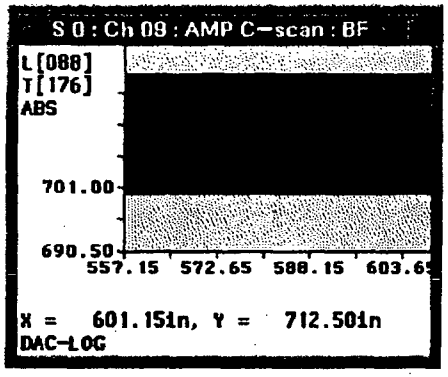

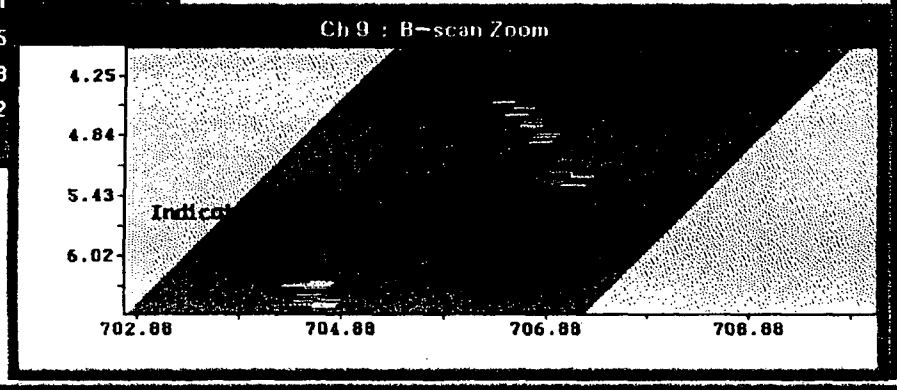

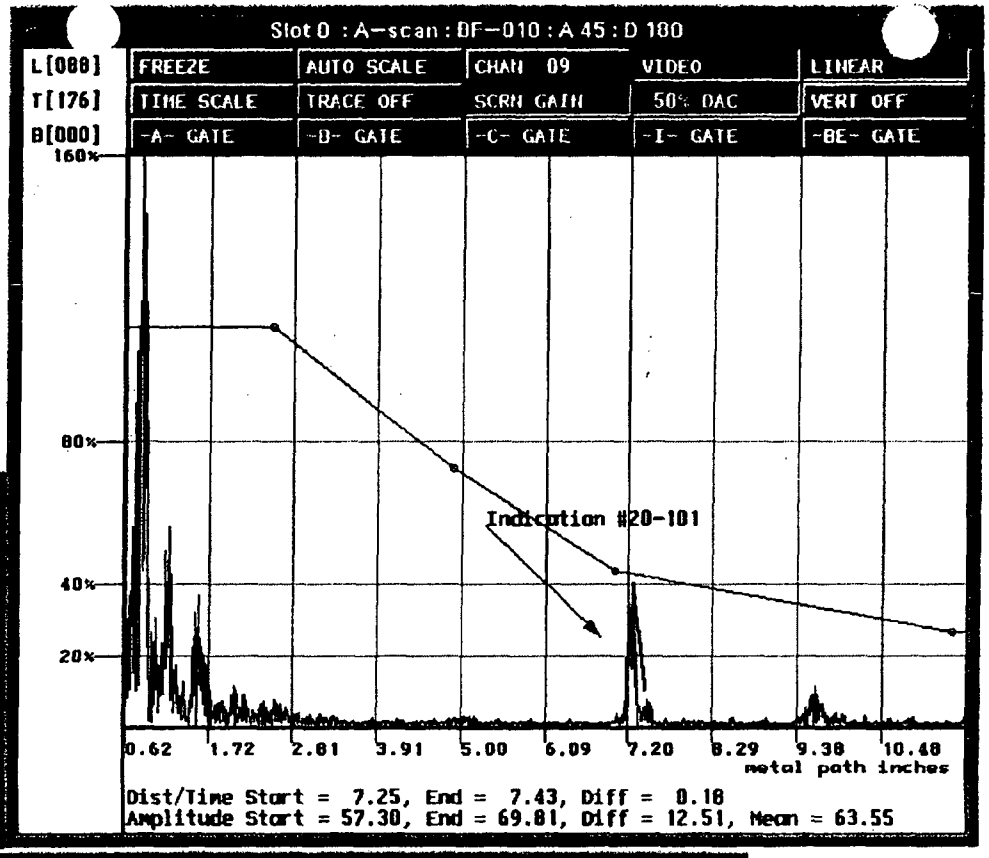

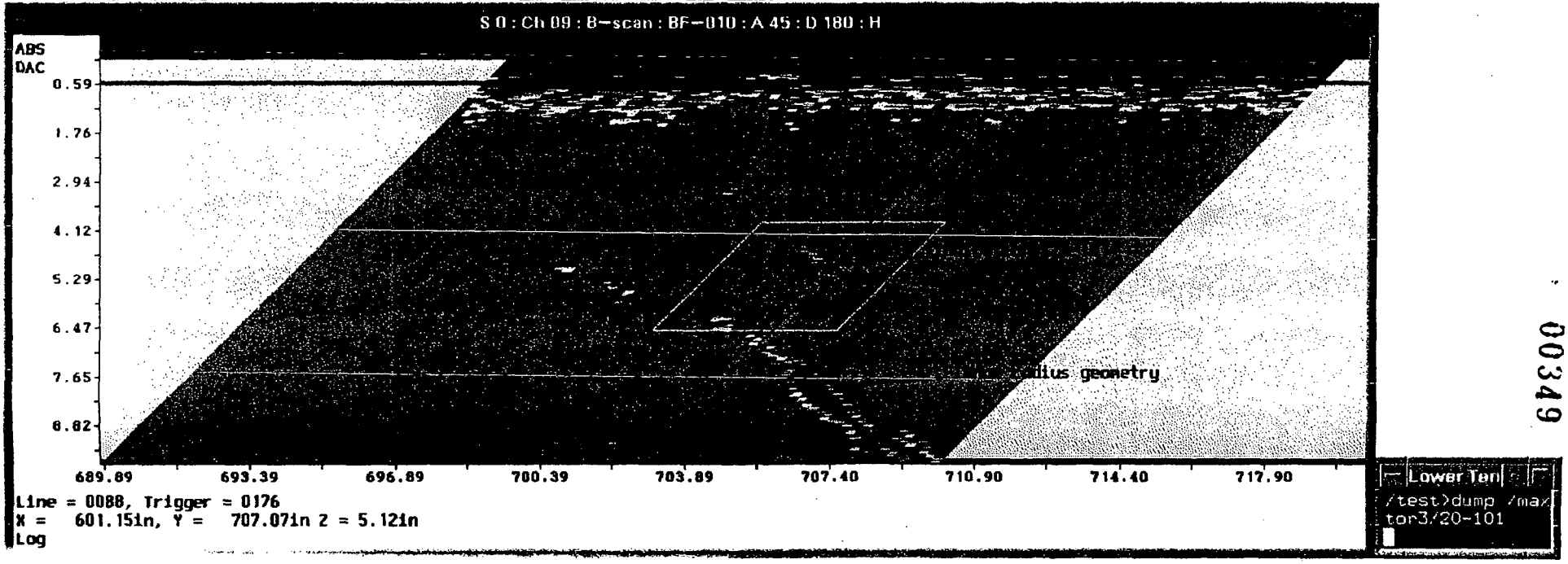

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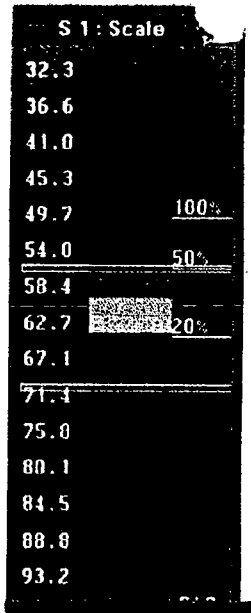

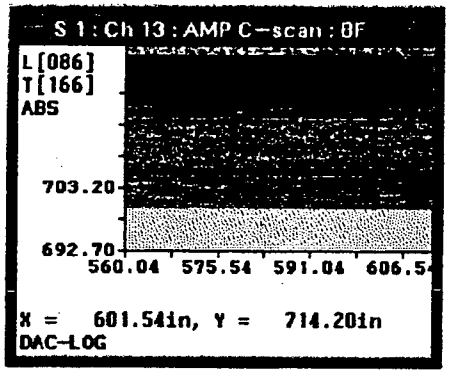

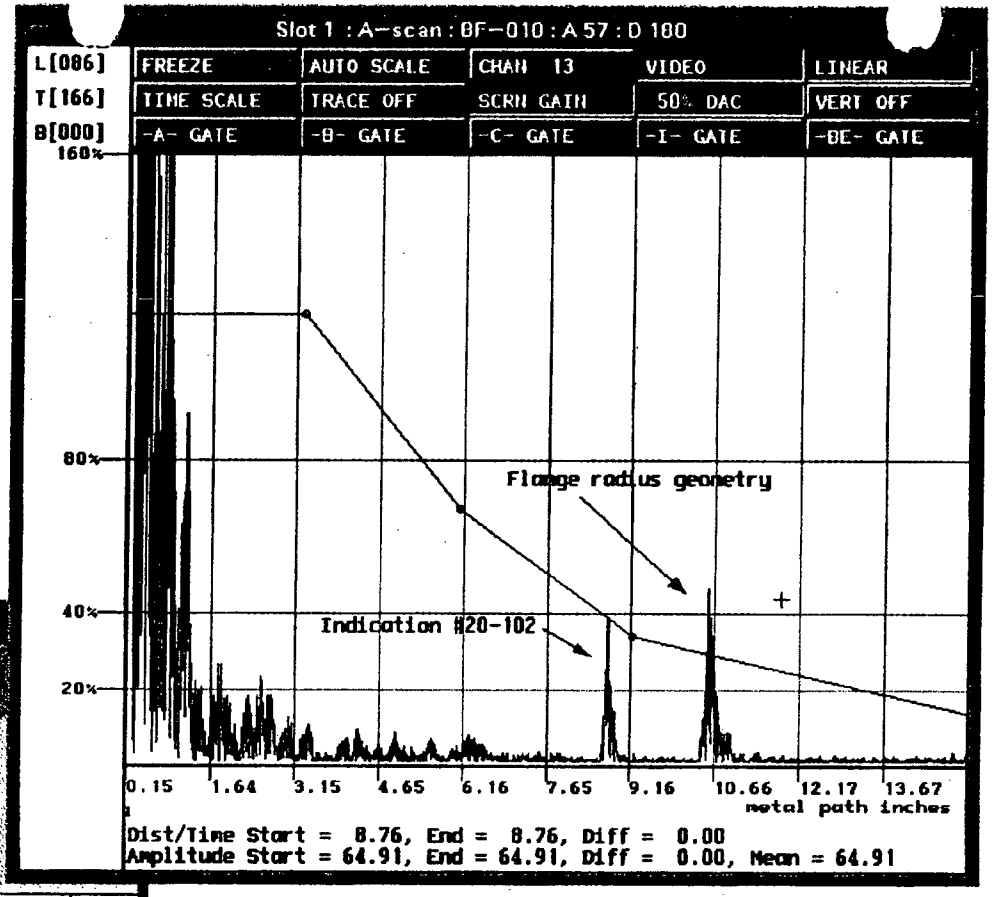

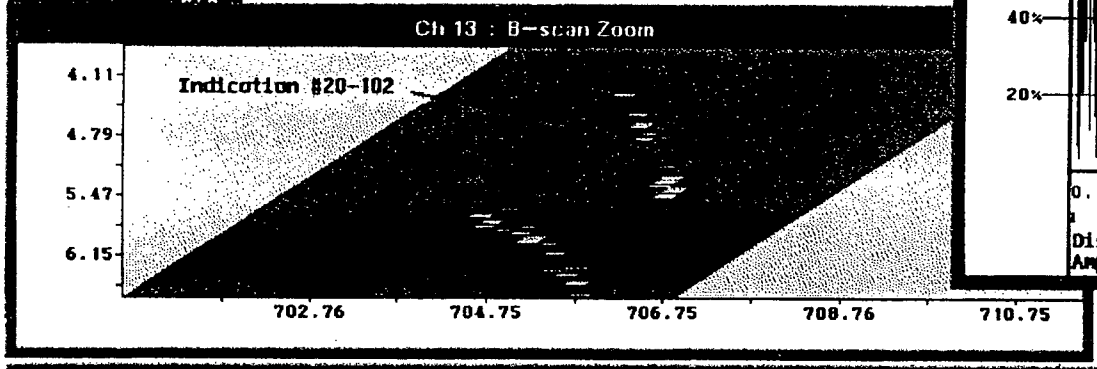

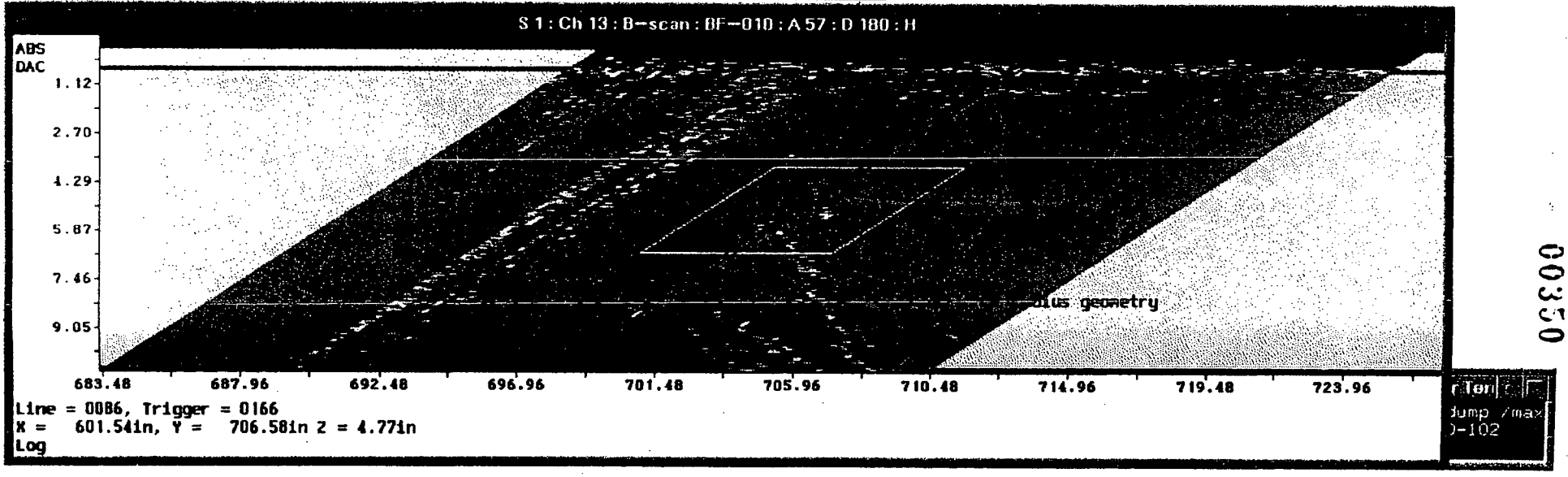

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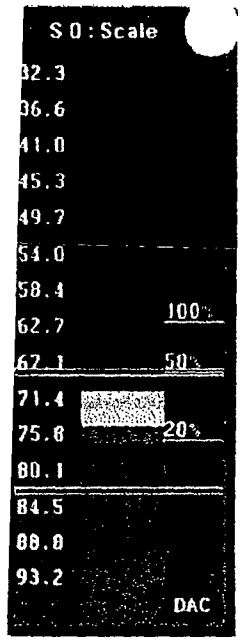

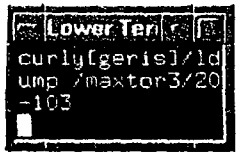

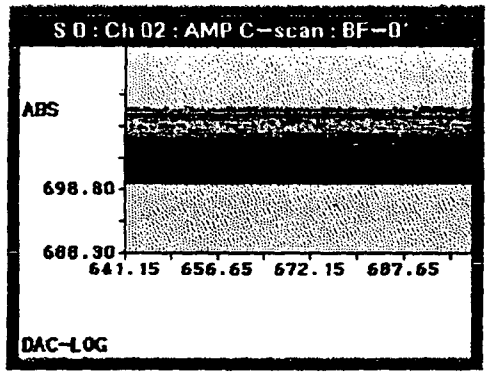

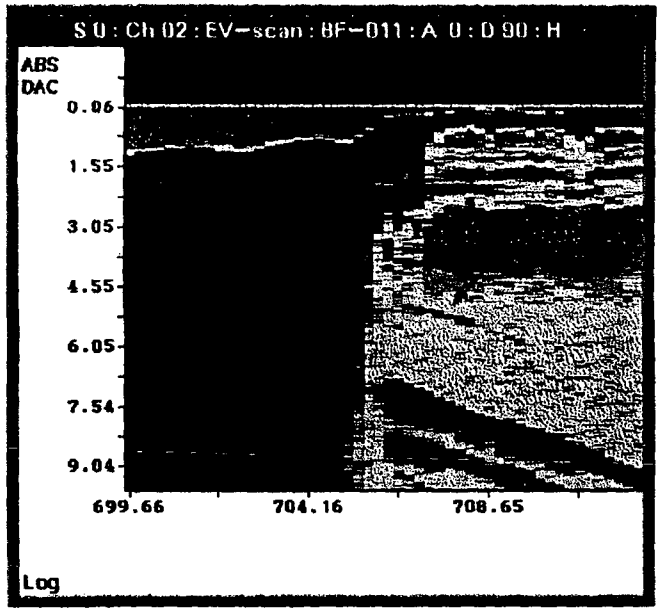

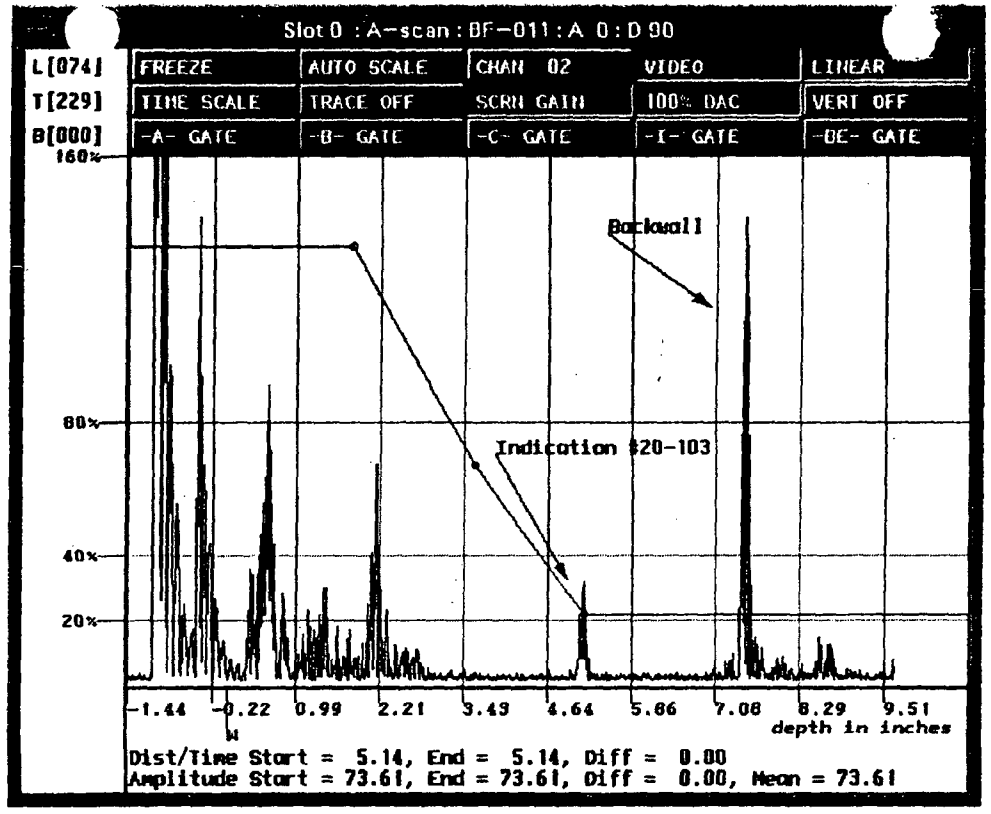

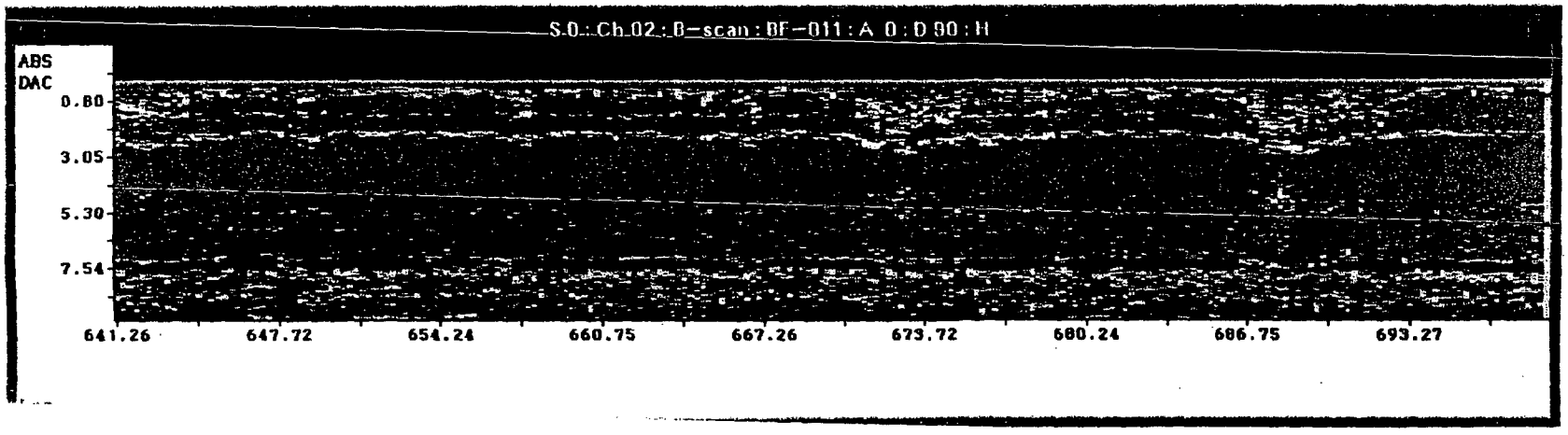

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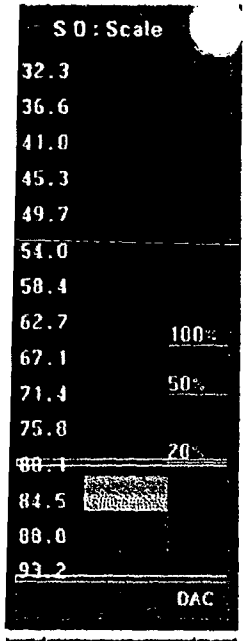

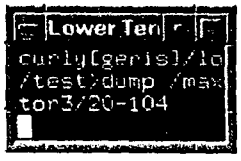

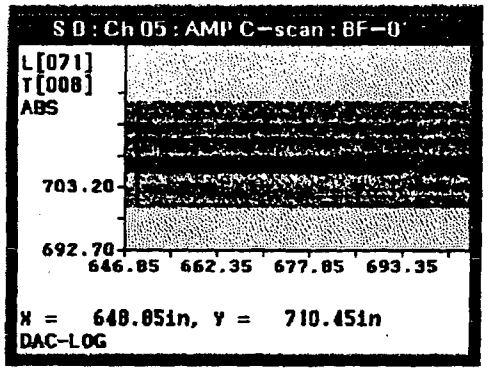

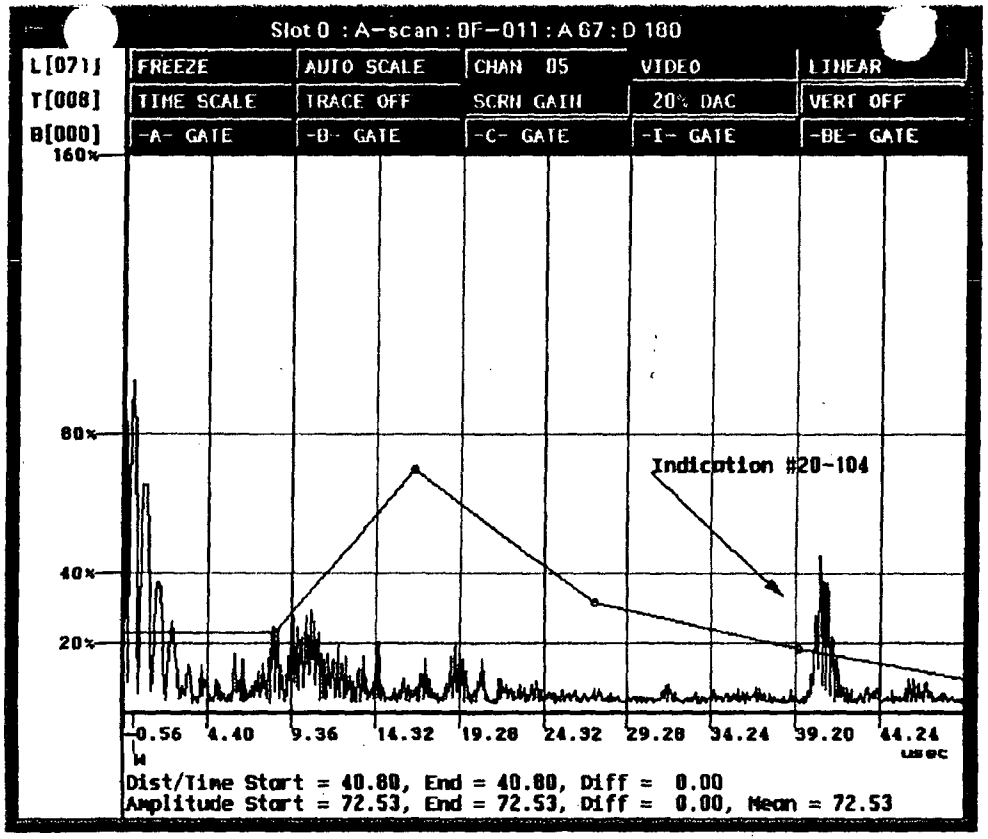

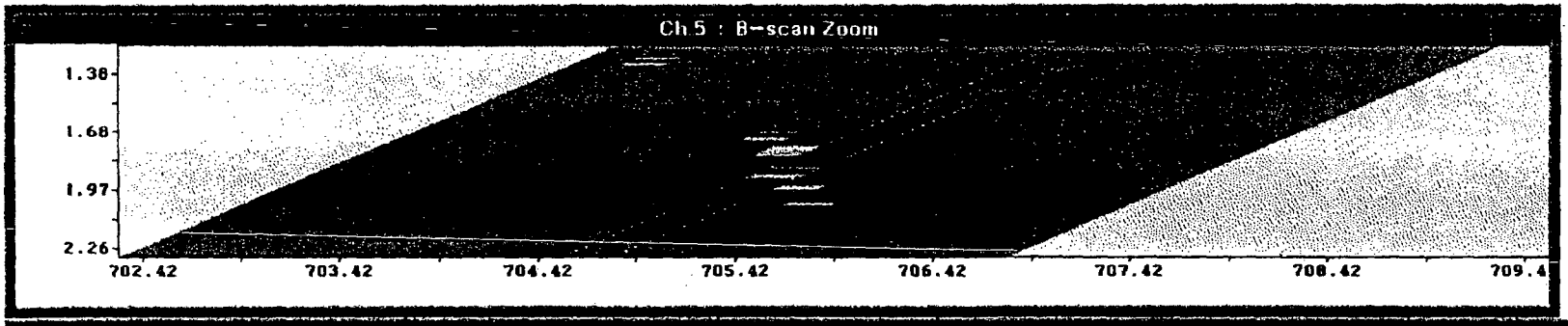

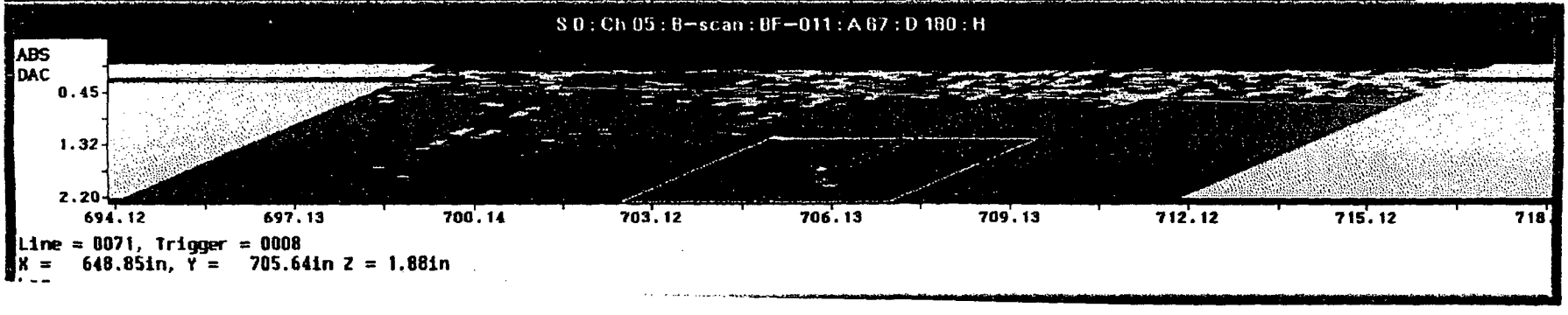

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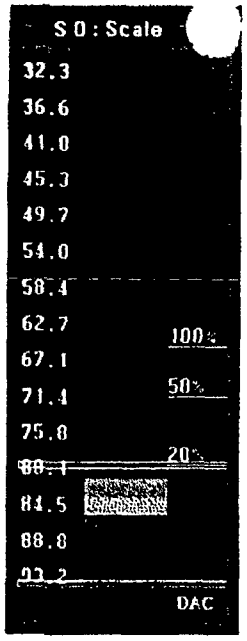

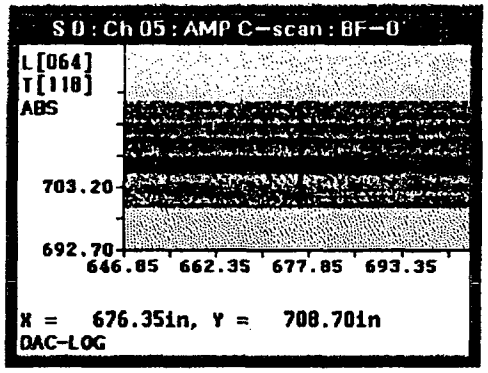

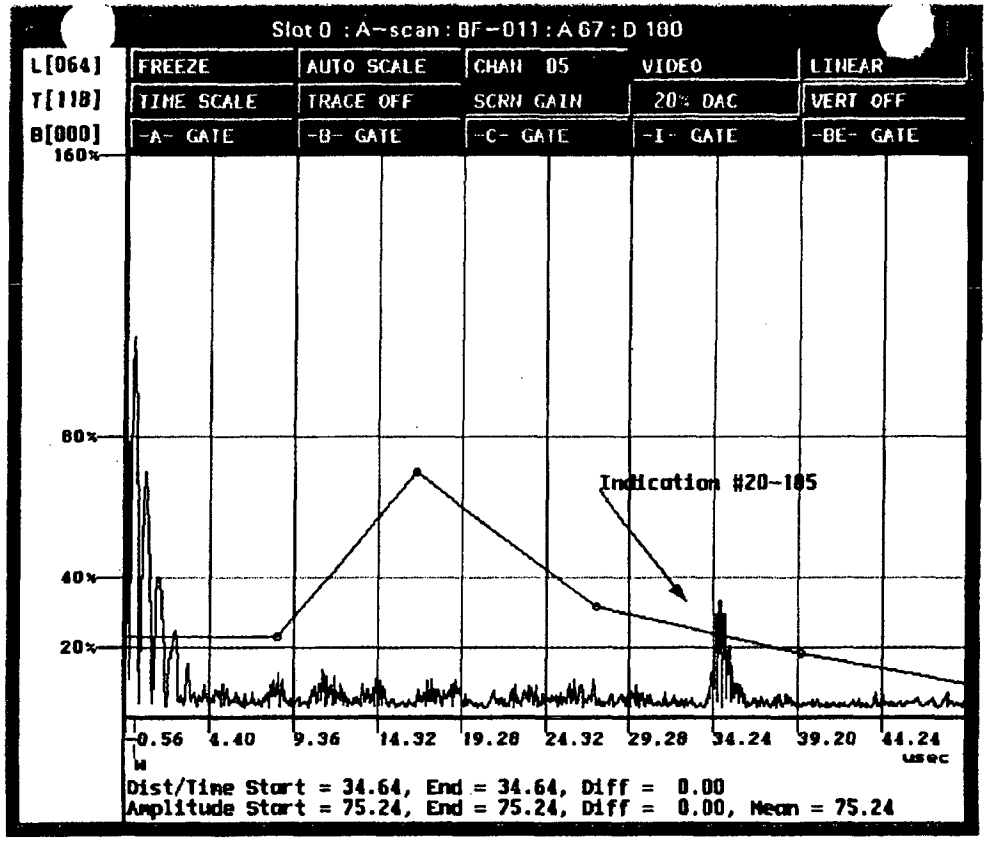

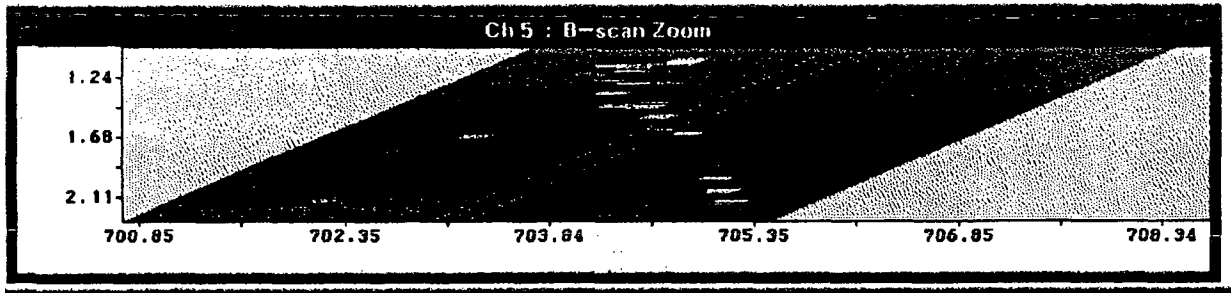

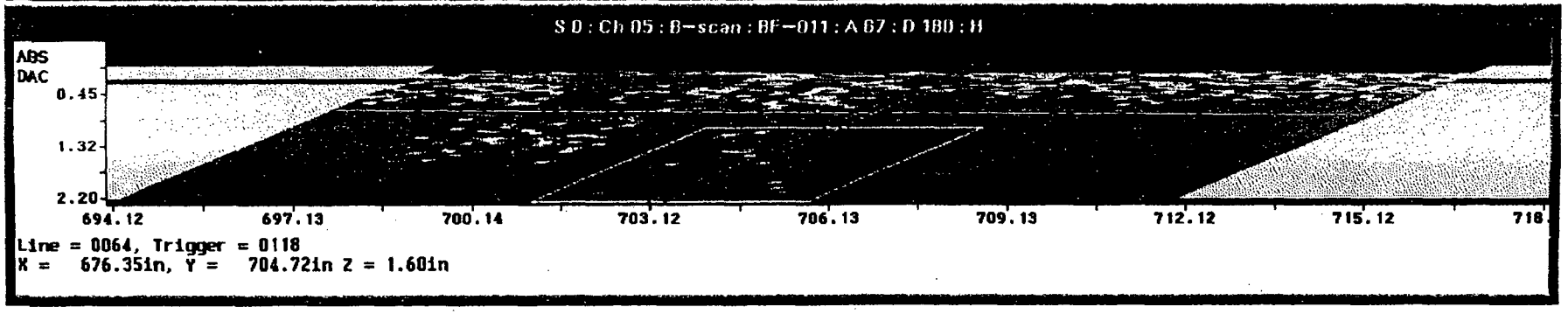

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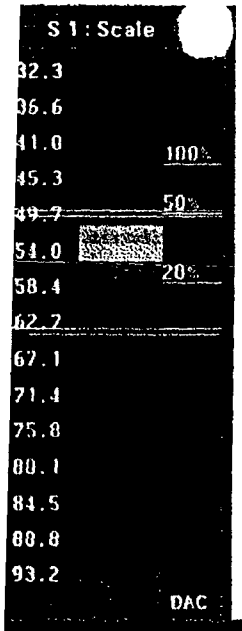

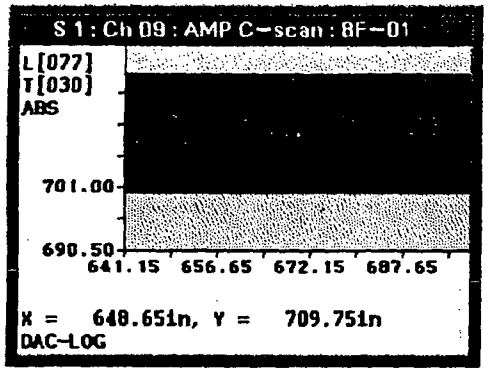

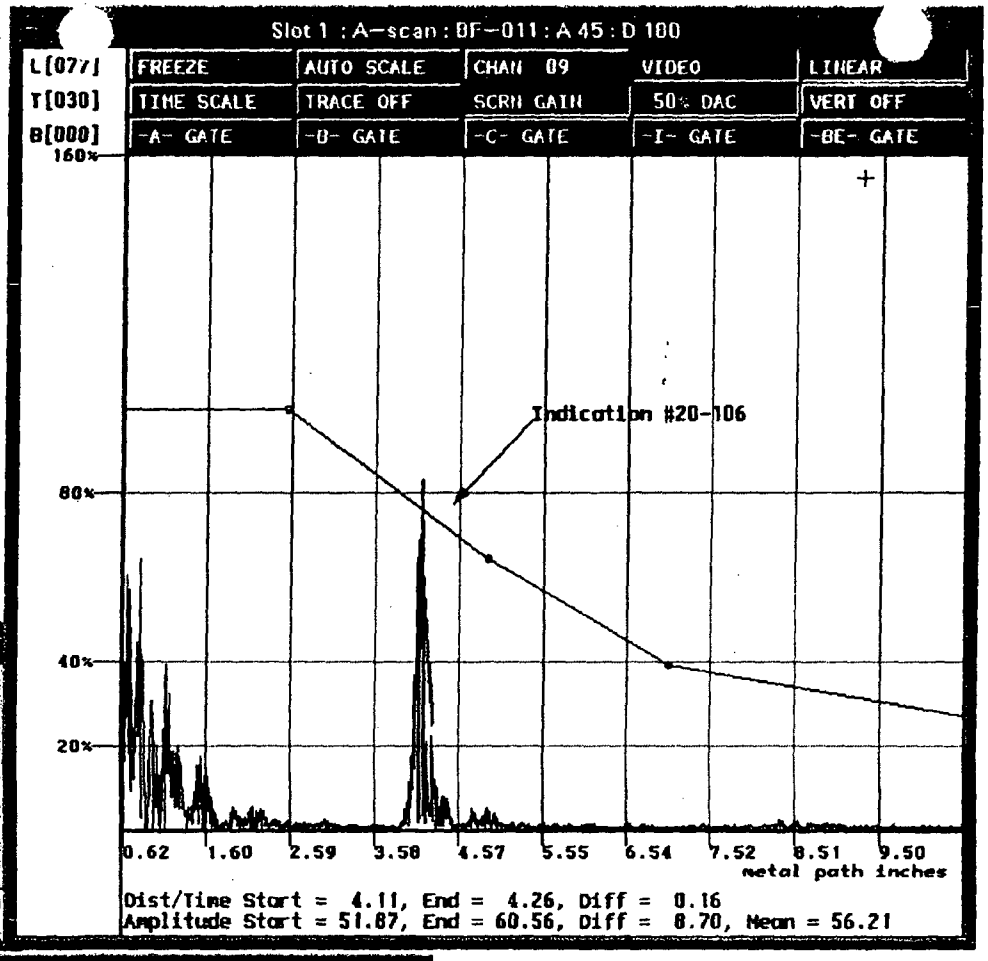

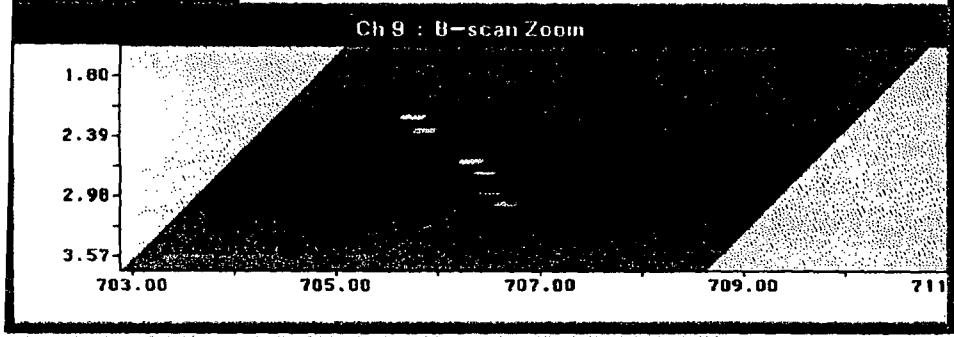

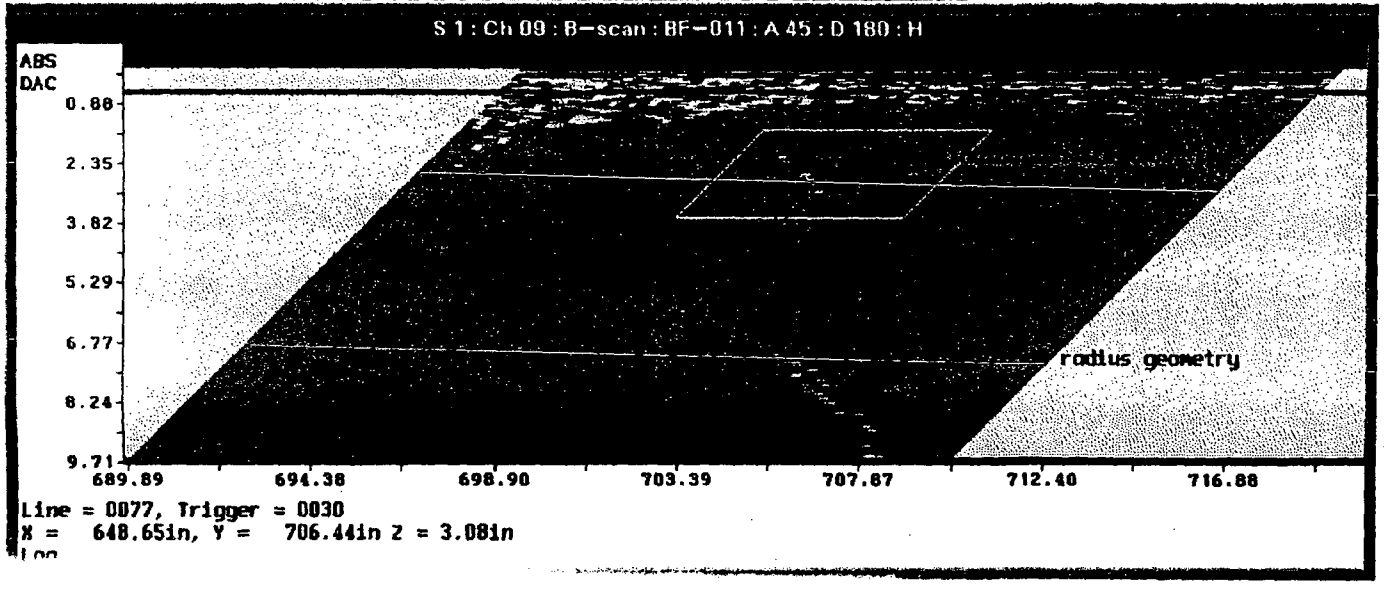

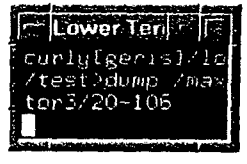

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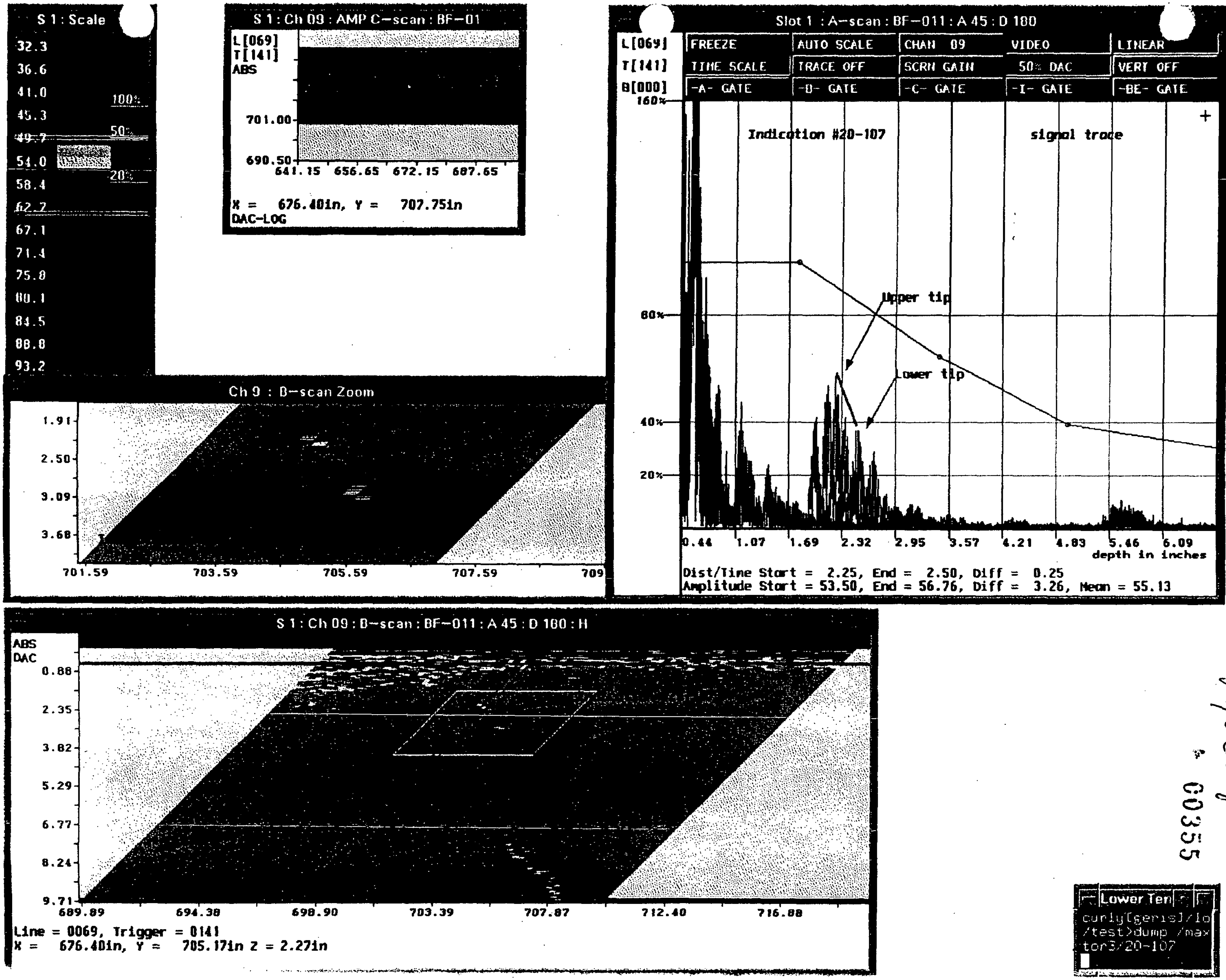

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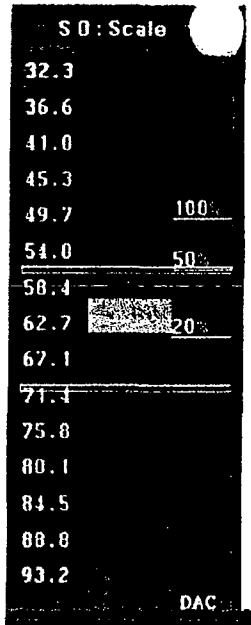

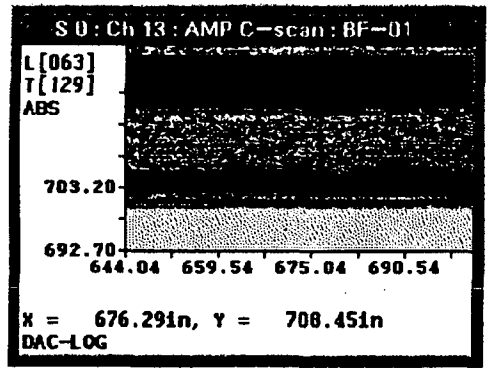

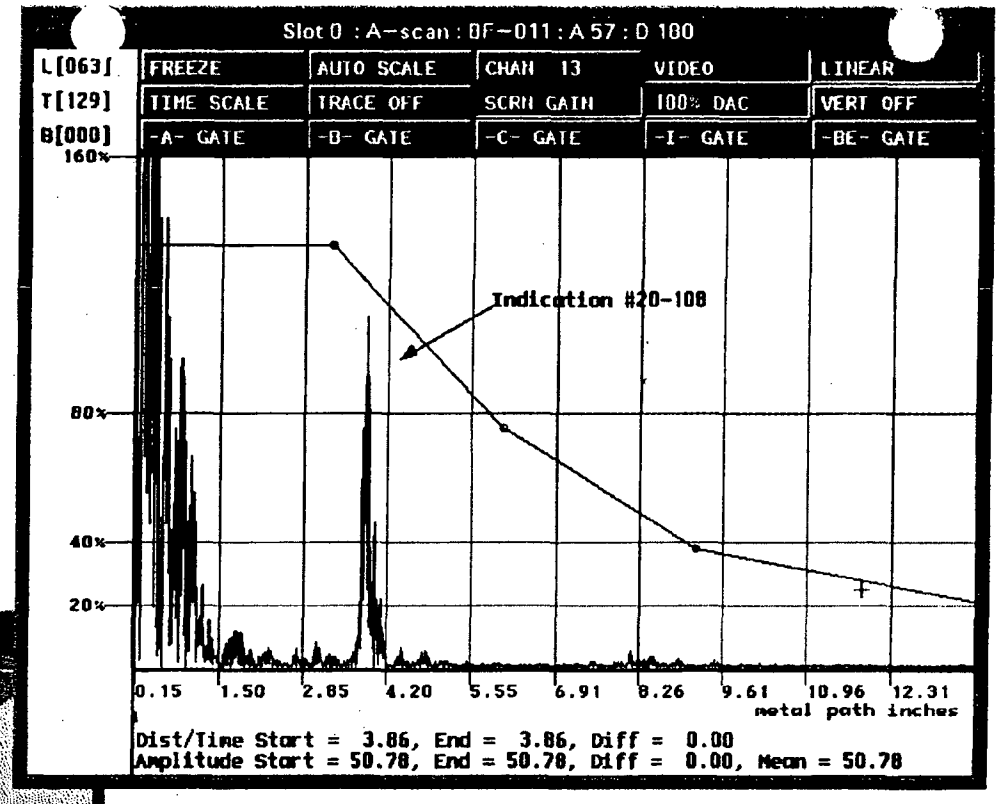

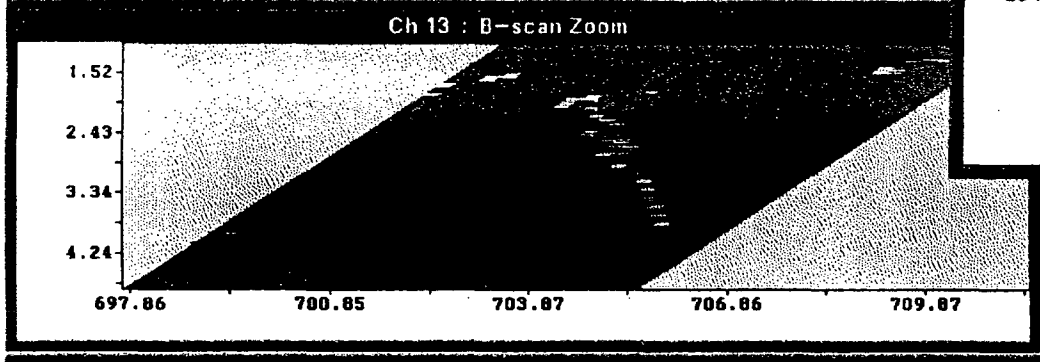

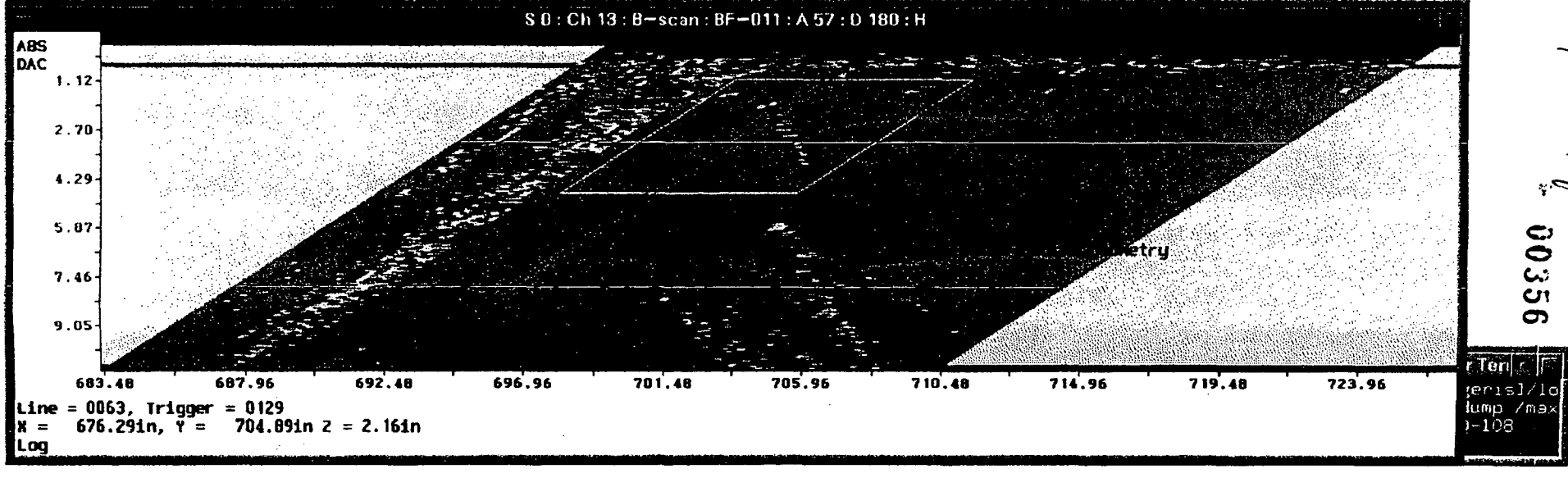

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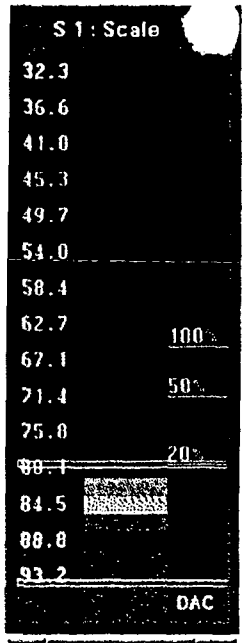

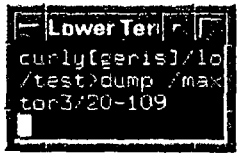

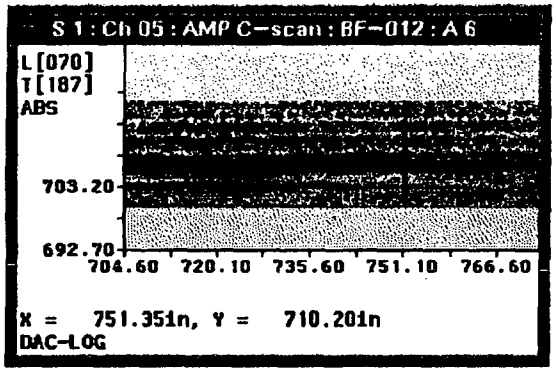

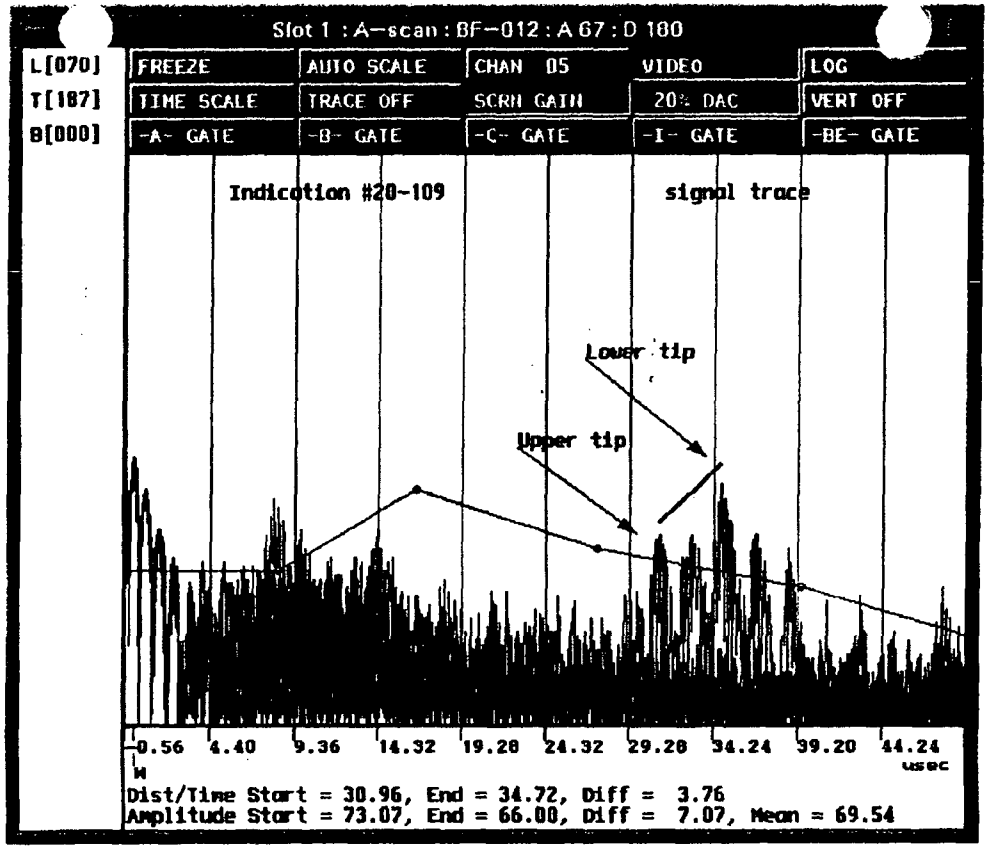

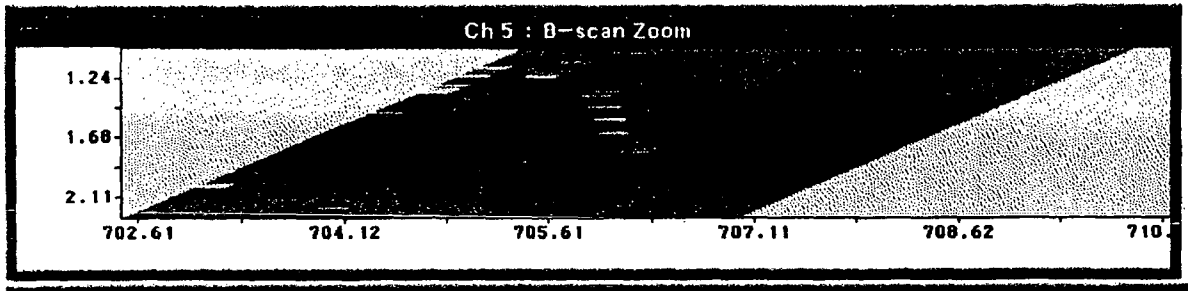

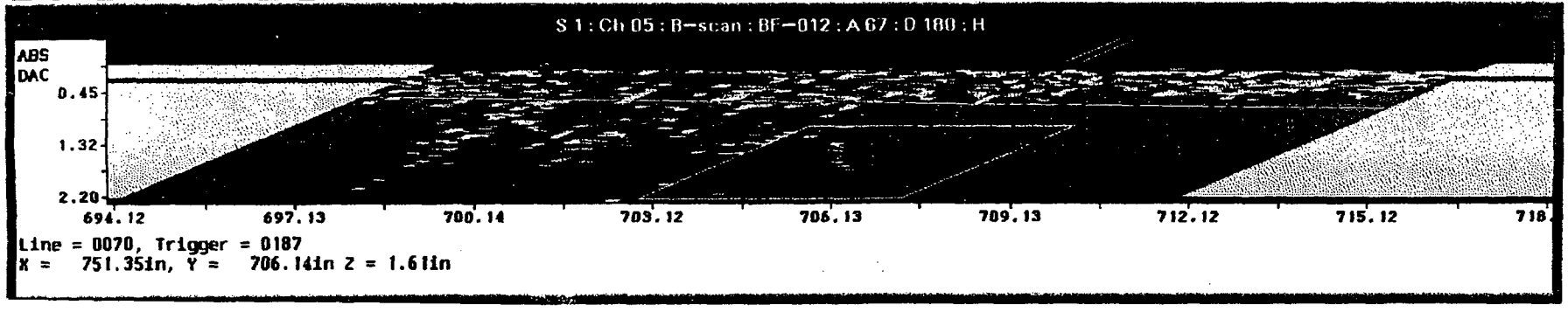

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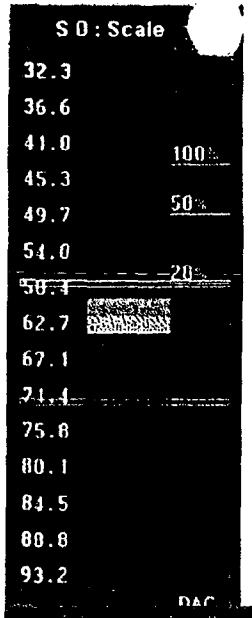

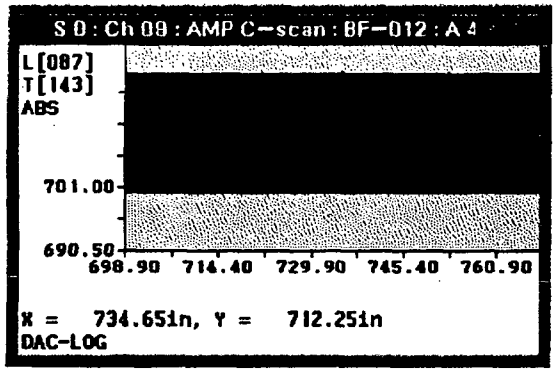

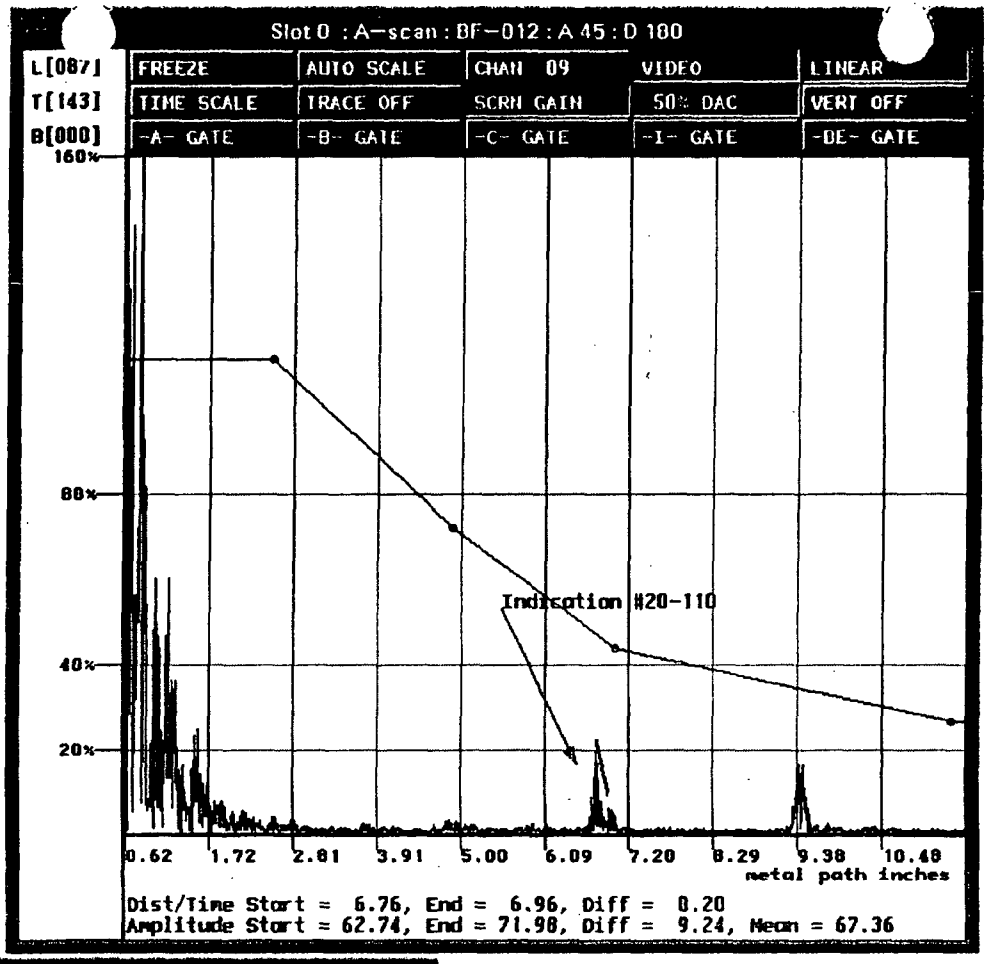

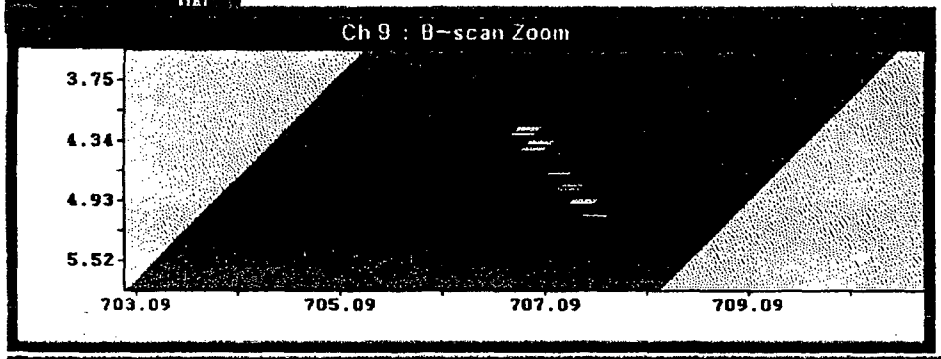

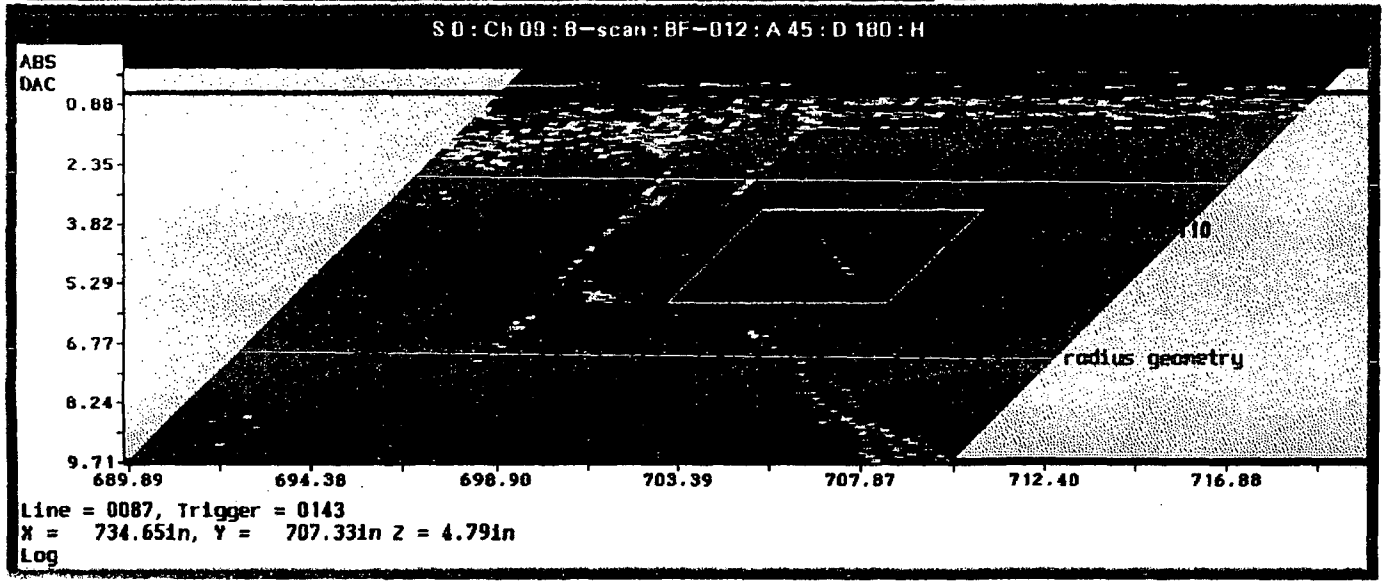

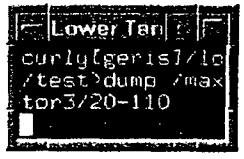

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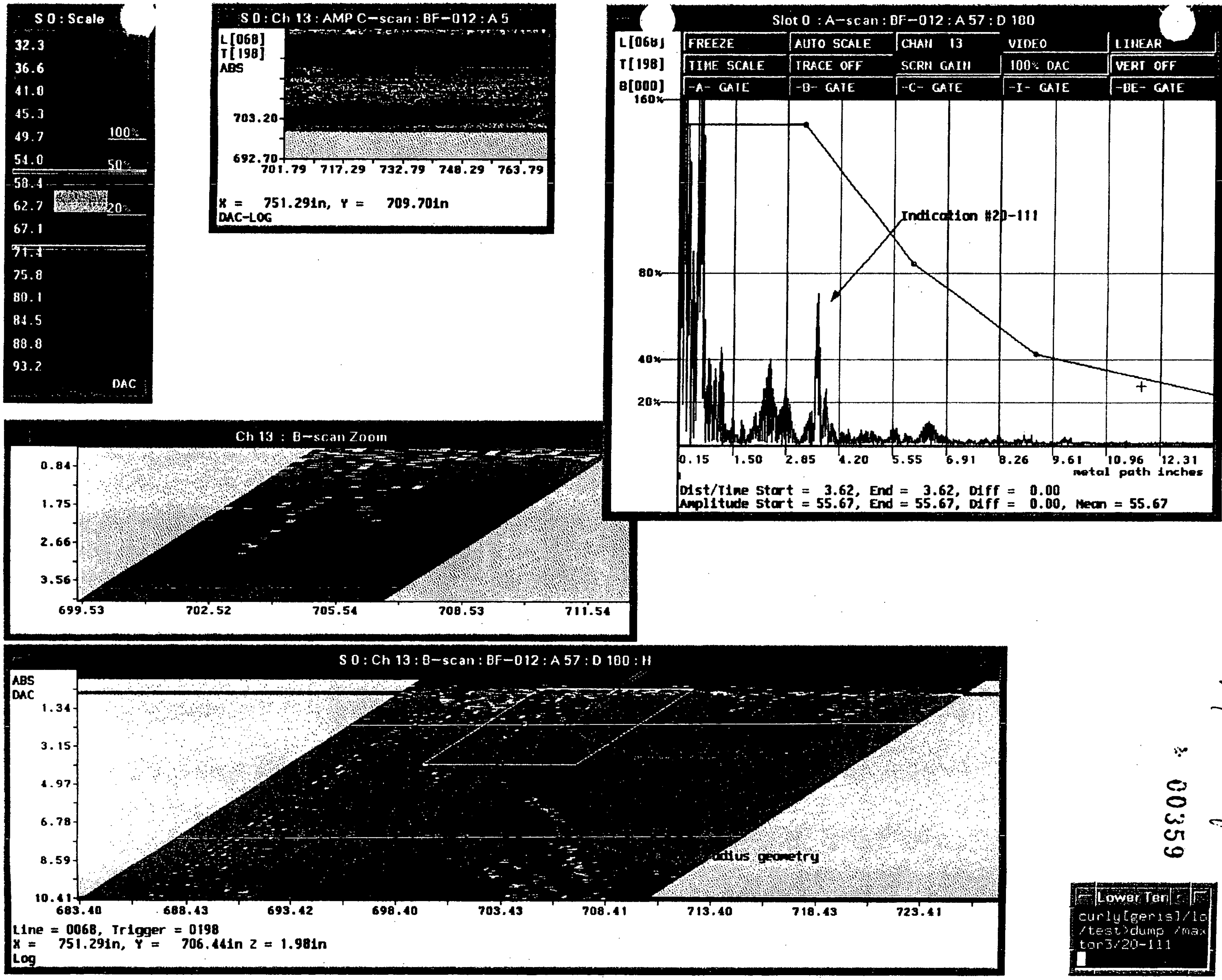

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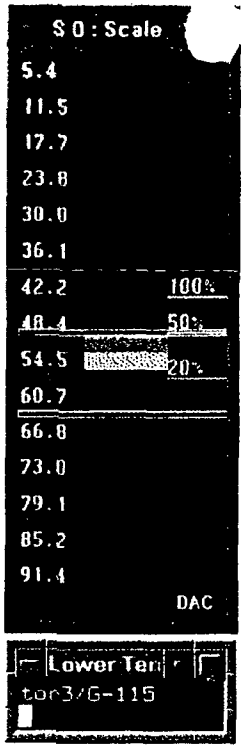

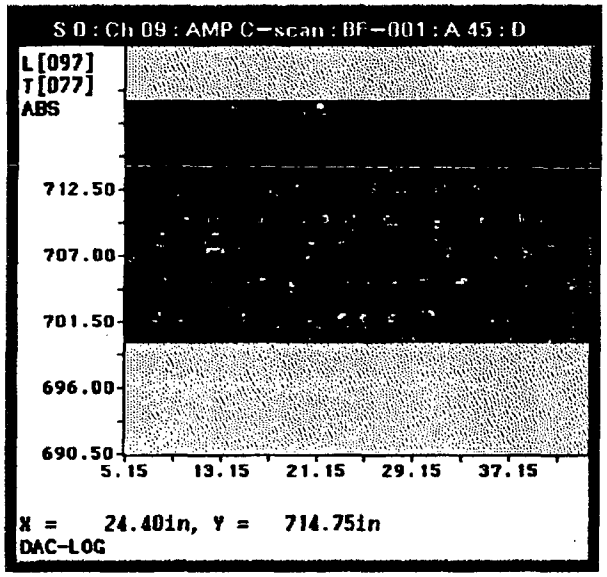

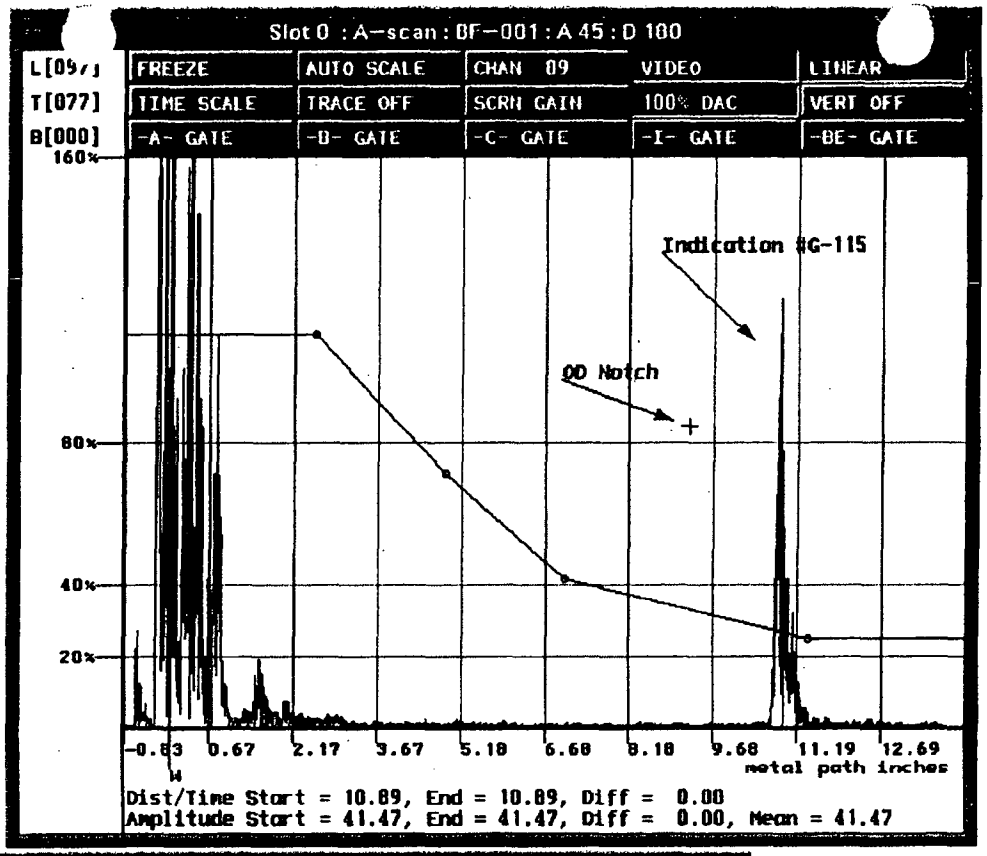

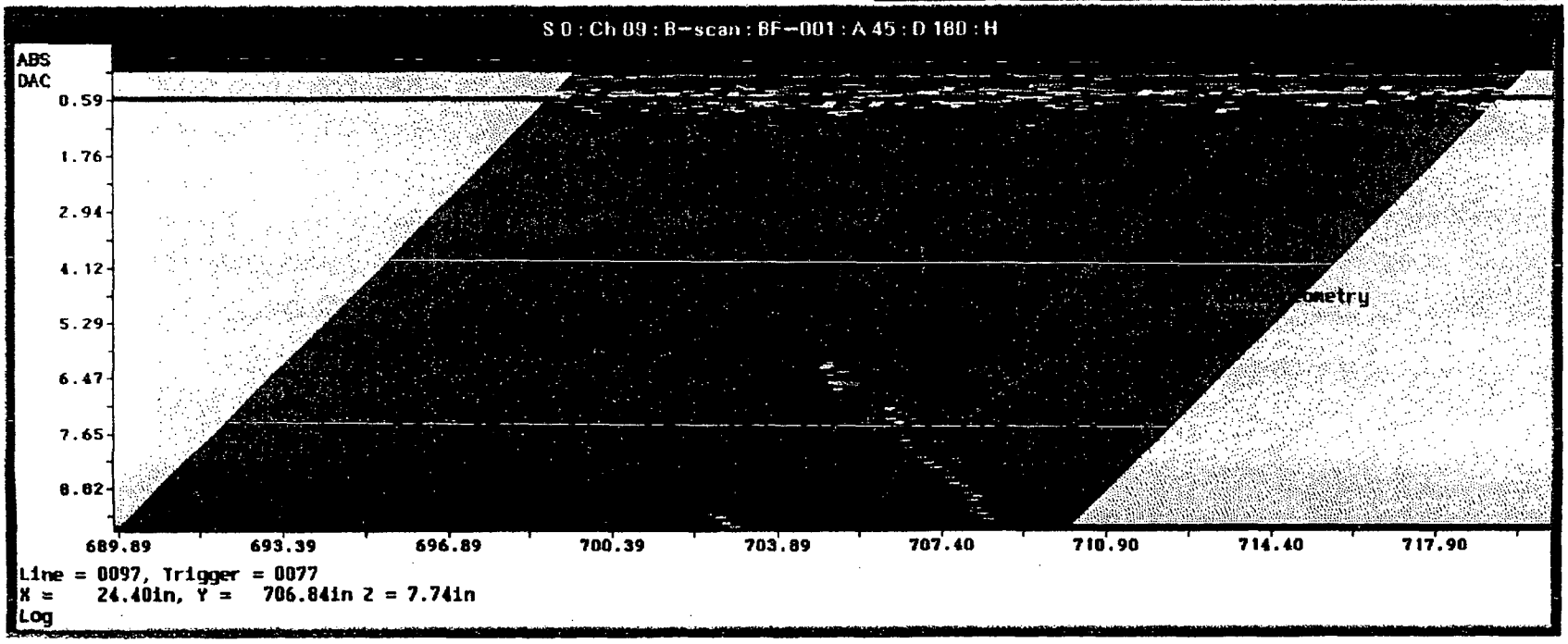

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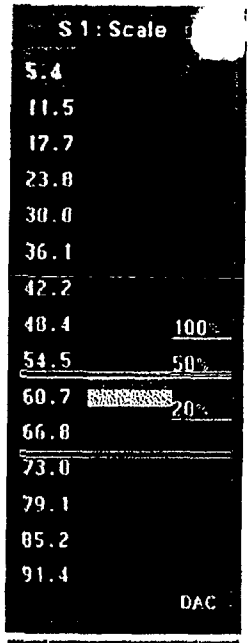

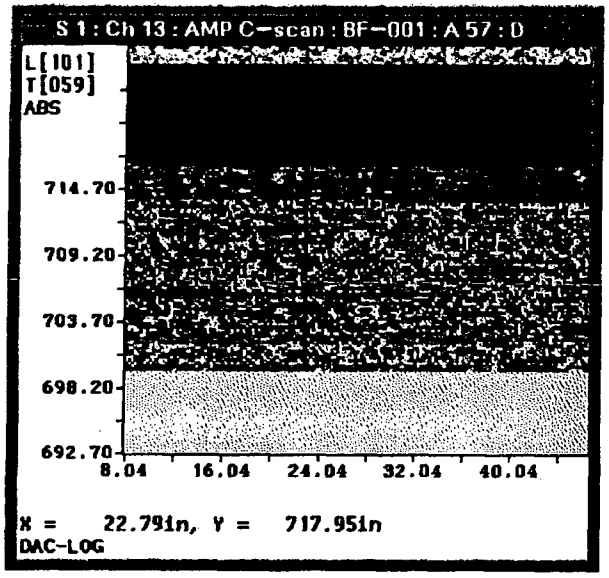

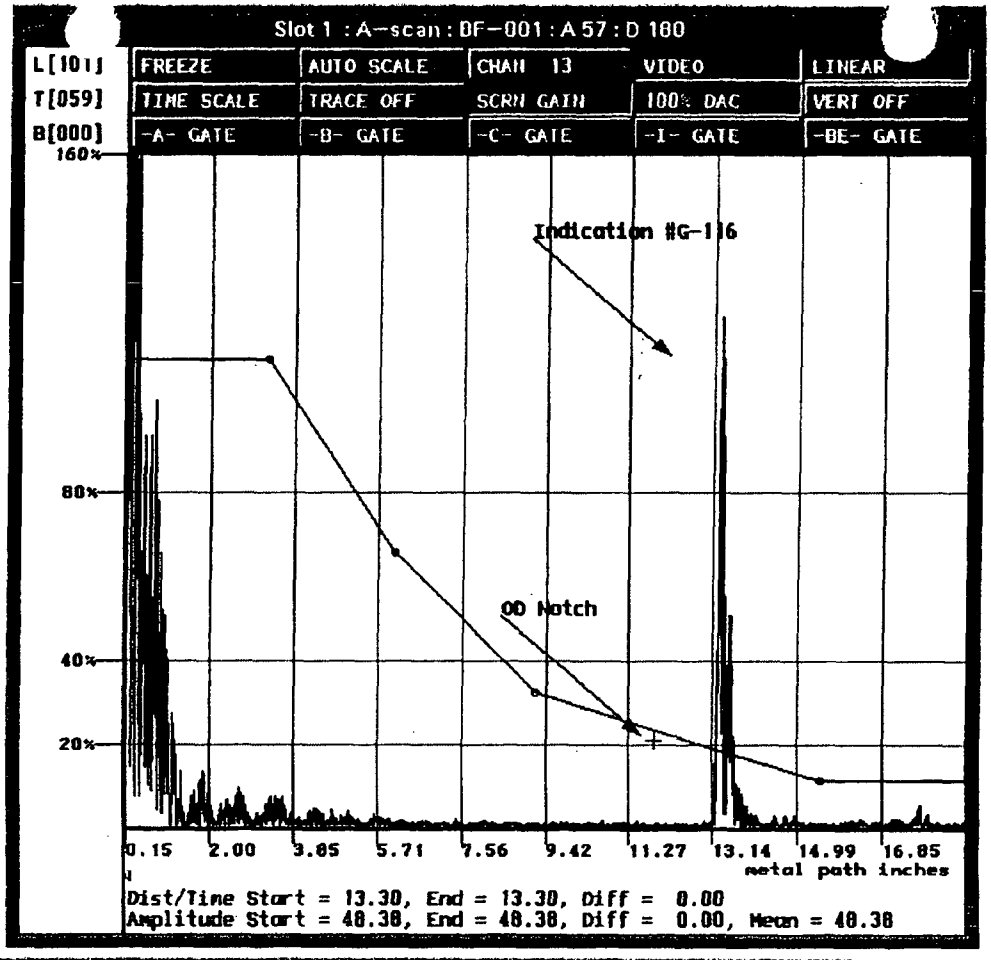

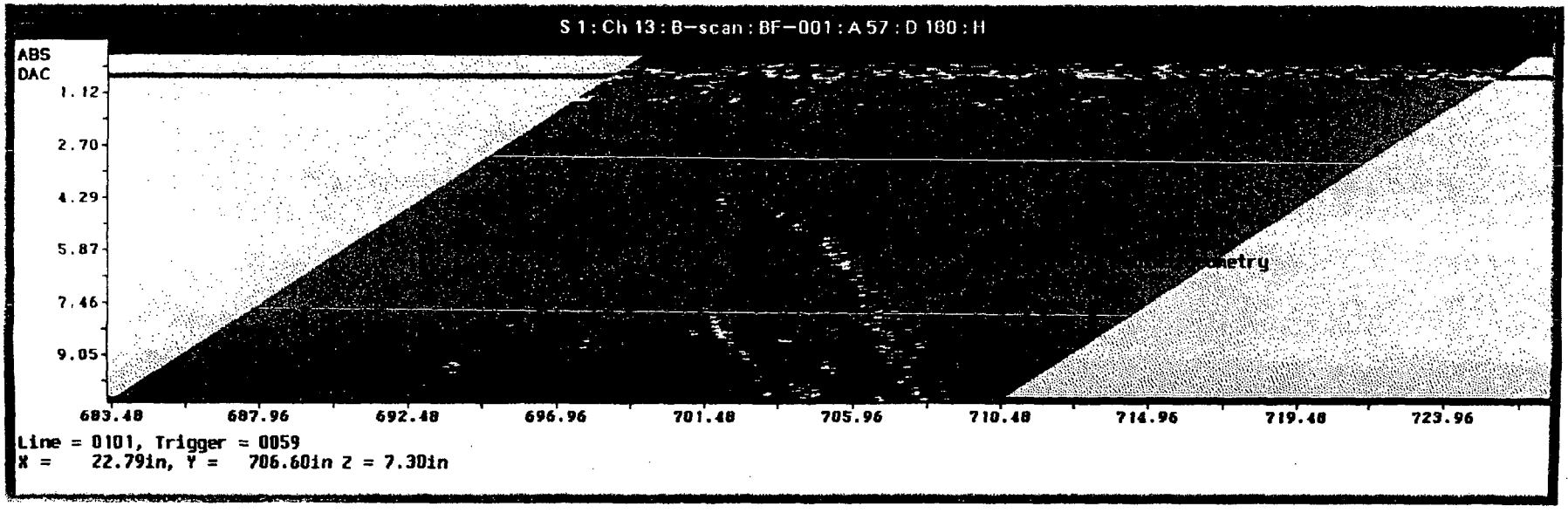

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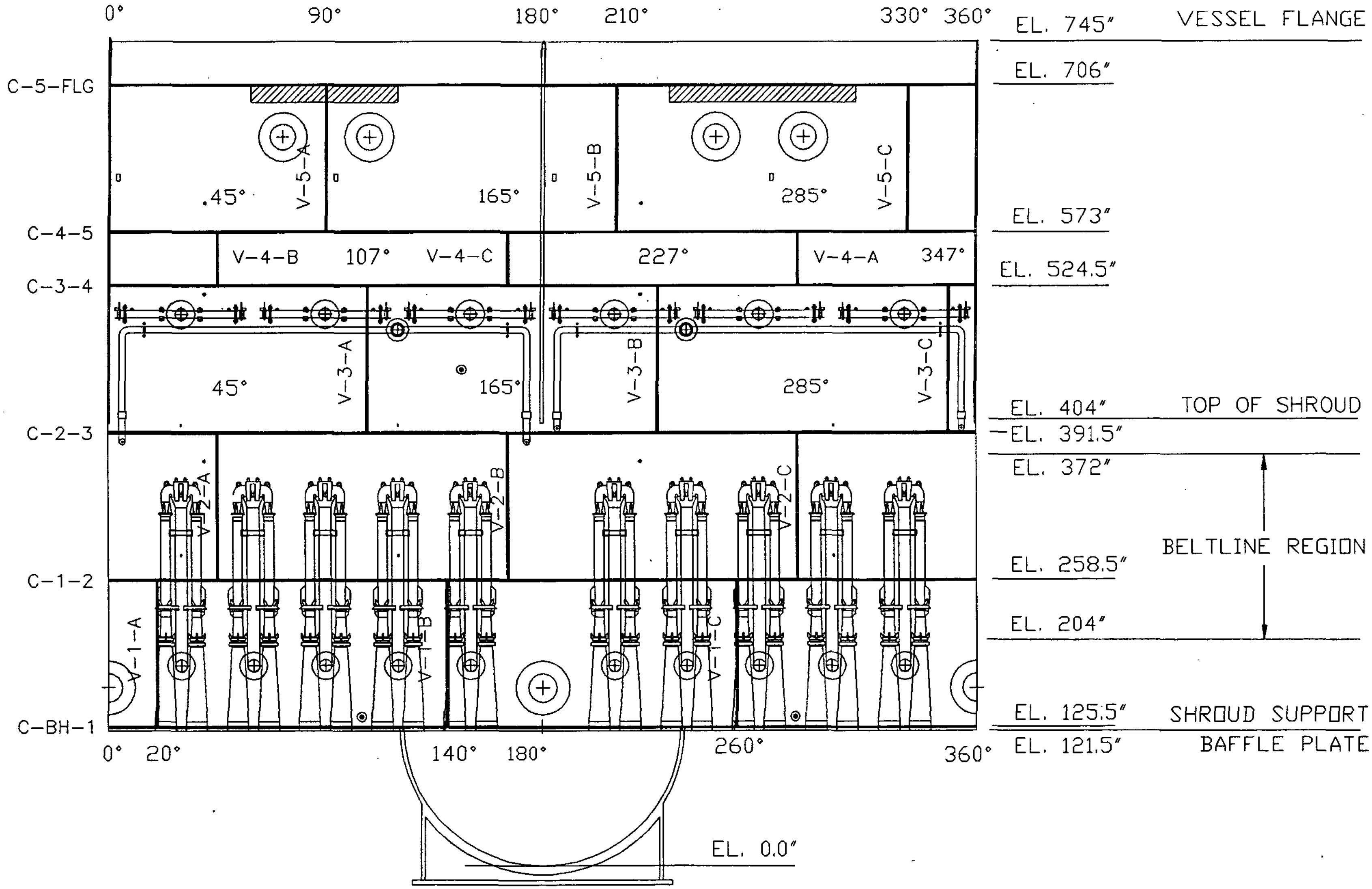
BROWNS FERRY UNIT-3 WELD LOCATIONS



GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	VESSEL ROLLOUT & MANUAL PICKUP AREAS	BF-3-VMA	REV 0

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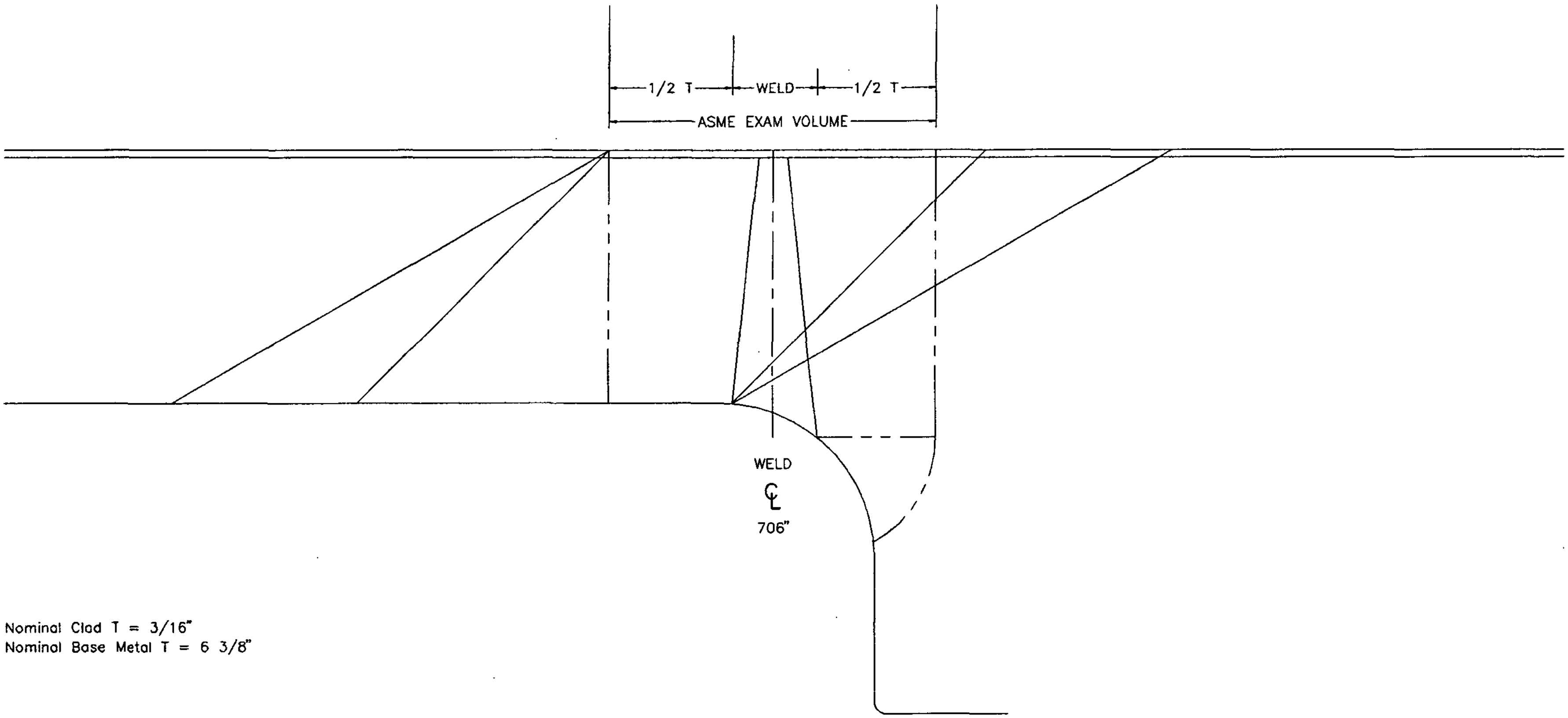

Nominal Clad T = 3/16"
Nominal Base Metal T = 6 3/8"

GE NUCLEAR ENERGY	BROWNS FERRY UNIT 3	WELD C-5-FLG MANUAL PICKUP	SCALE: NONE	DWG. MANC-5-F	REV. 0

C0363 / 9291/A291
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