MONSANTO CHEMICAL COMPANY

ORGANIC CHEMICALS DIVISION - RESEARCH DEPARTMENT

Nº 127095

Xerox

SUBJECT

Aroclor Wildlife.

NO.	PREPARED BY (SIGNATURE)	DATE
1630346	W. J. Litzkow	4-14-70

Ohio State Drug Administration (OSDA)

An Ohio farmer painted a feed storage silo with a paint that contained Aroclor 1254 in its formulation. The feed from this silo was then fed to the farmers dairy herd. Samples of the milk were run in the state labs of Ohio. They reported finding levels of 1 to 1.5 ppm Aroclor 1254. The state reported exact duplication of production. This, however, was not the case in Monsanto labs. for to us there seemed to be biological effects on the Aroclor. ec/gc could not "difinitely" confirm the presence of A-1254 but MS did.

The paint shavings, however, were exact ec/gc replicas of A-1254.

OSAD sent to Monsanto three milk samples from the dairy herd mentioned above and a pet ether extract from the OSDA labs. They also sent their chromatograph.

At Monsanto we extracted their milk and paint shavings sample and also attempted to quantify their extract. The quantification of their extract was inaccurate due to the fact that it leaked on shipment from Ohio.

The methods used were included in Method #70-1.

Results are on page OR 127096

DSW 152778

READ AND UNDERSTOOD BY	DATE

STLCOPCB4040124

MONSANTO CHEMICAL COMPANY
ORGANIC CHEMICALS DIVISION - RESEARCH DEPARTMENT

No. 127096

CT
Aroclor

O. 1630346 | PREPARED BY (SIGNATURE) W. D. Latschji | DATE 4-70

Ohio Drug Administration Results

1) Paint Shavings of Paint used on Silo
Calculated as A-1254 - 2.87%

2) Pet Ether Extract from ODA state lab.
as A-1254 - 94 mg

This sample is reported on an absolute basis of the amount sent for there was no sample weight sent to base a ppm figure.

3) Milk samples - Method 70-1
Samples were spiked milk sent in one pint mason jar. The sample size taken was 50 grams. The gc/gc traces were not duplicates of production material. gc/ms identified them as A-1254

Sample *	as A-1254
H-1	0.78 ppm
H-2	0.74 ppm
H-3	0.68 ppm

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Aroclor 1254 OSAD Pet Ether Extract

STDS. - 1.01×10^{-9} g/ml

Insect	Area
2 ml	725
4 ml	1565
6 ml	2264
8 ml	3092
10 ml	3593

Sple	Notebook	Insection	Dilution	Area	mg of Aroclor
OSAD	OR127096	4 ml	100	1445	94 mg

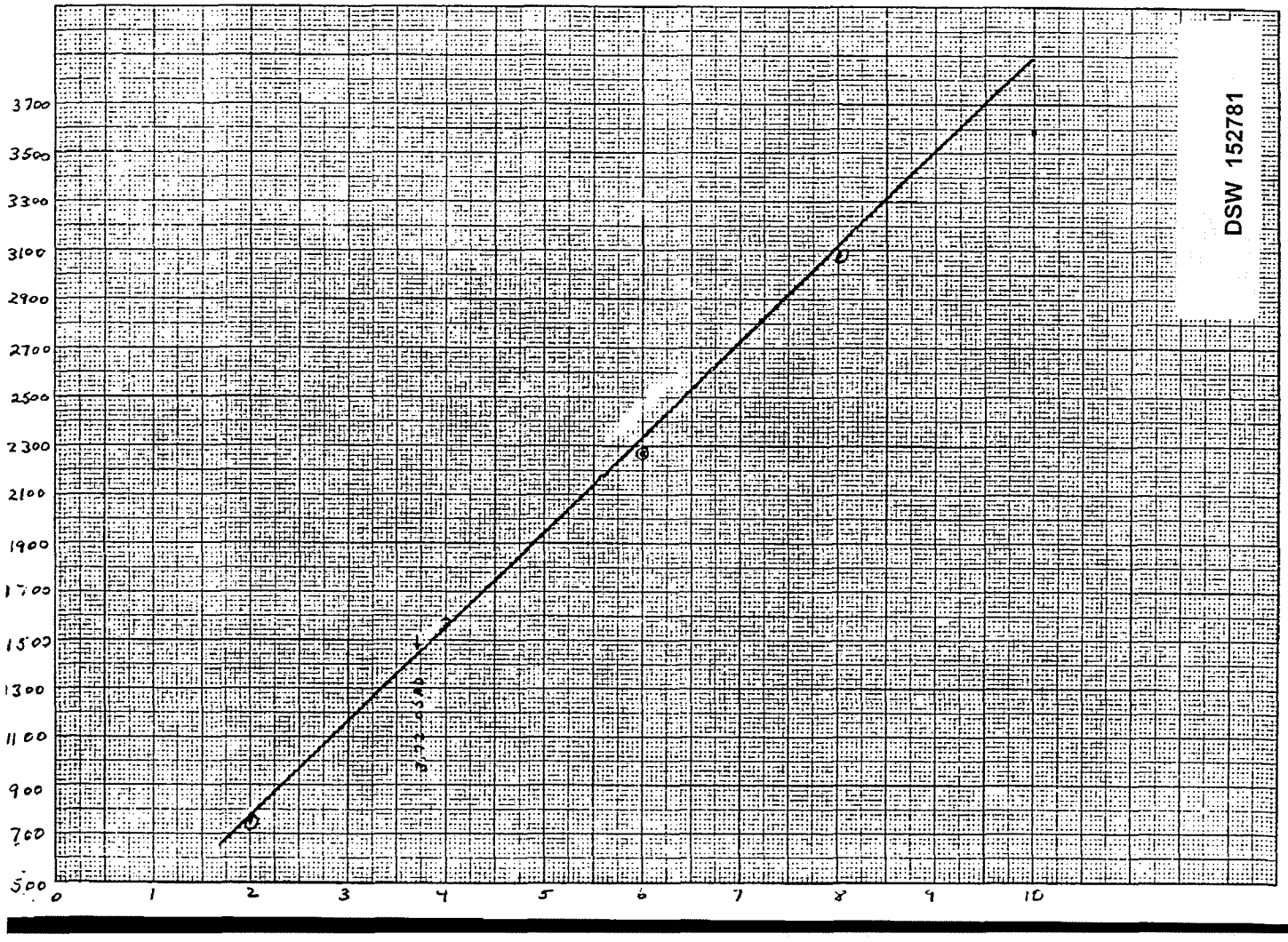
Calculation

$$\frac{3.72\ \text{ml} \times 1.01 \times 10^{-9}\ \text{g/ml} \times 10^{6}\ \text{mg/g}}{4\ \text{ml}} \times 100\ \text{ml} \times 10^{3}\ \text{ml/ml} = 94.$$

DSW 152780

K&E 10 X 10 TO THE CENTIMETER 46 1510
15 X 25 CM.
KEUFFEL & ESSER CO.

0500 Milk
Pet Ether Extract
4-14-70



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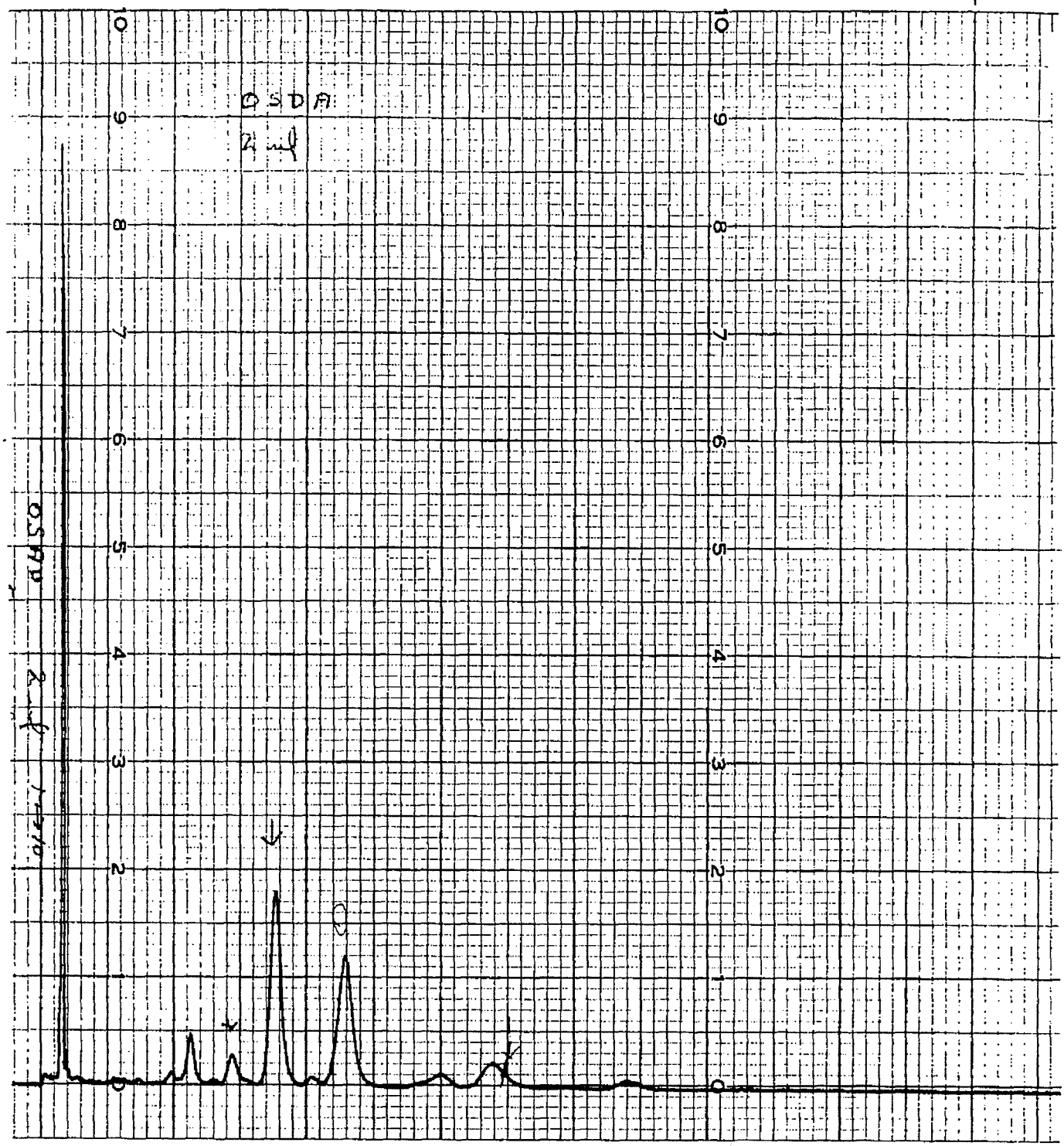

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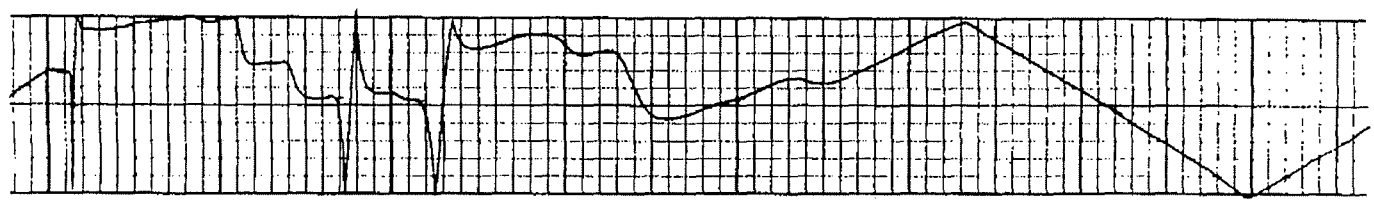

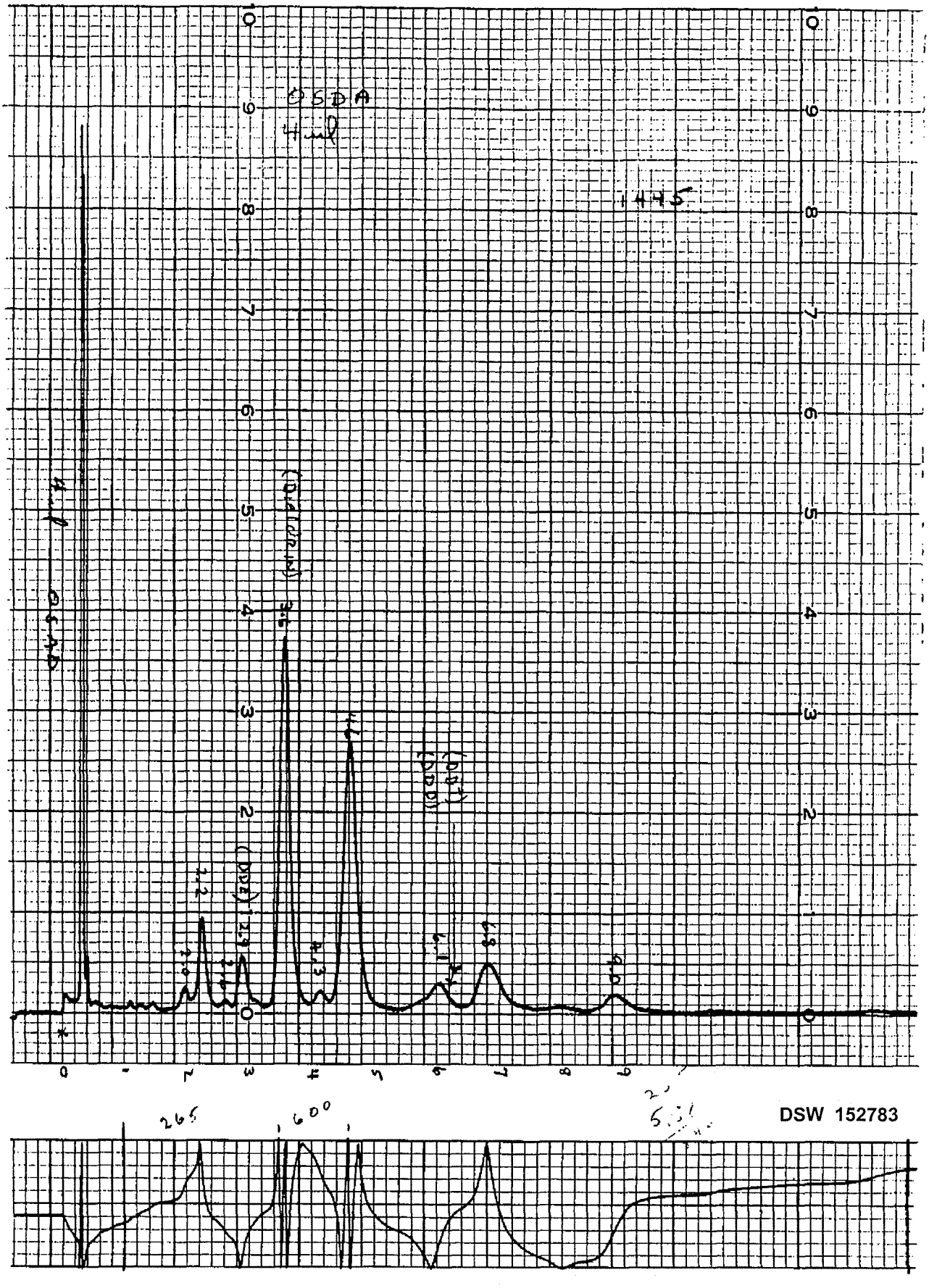
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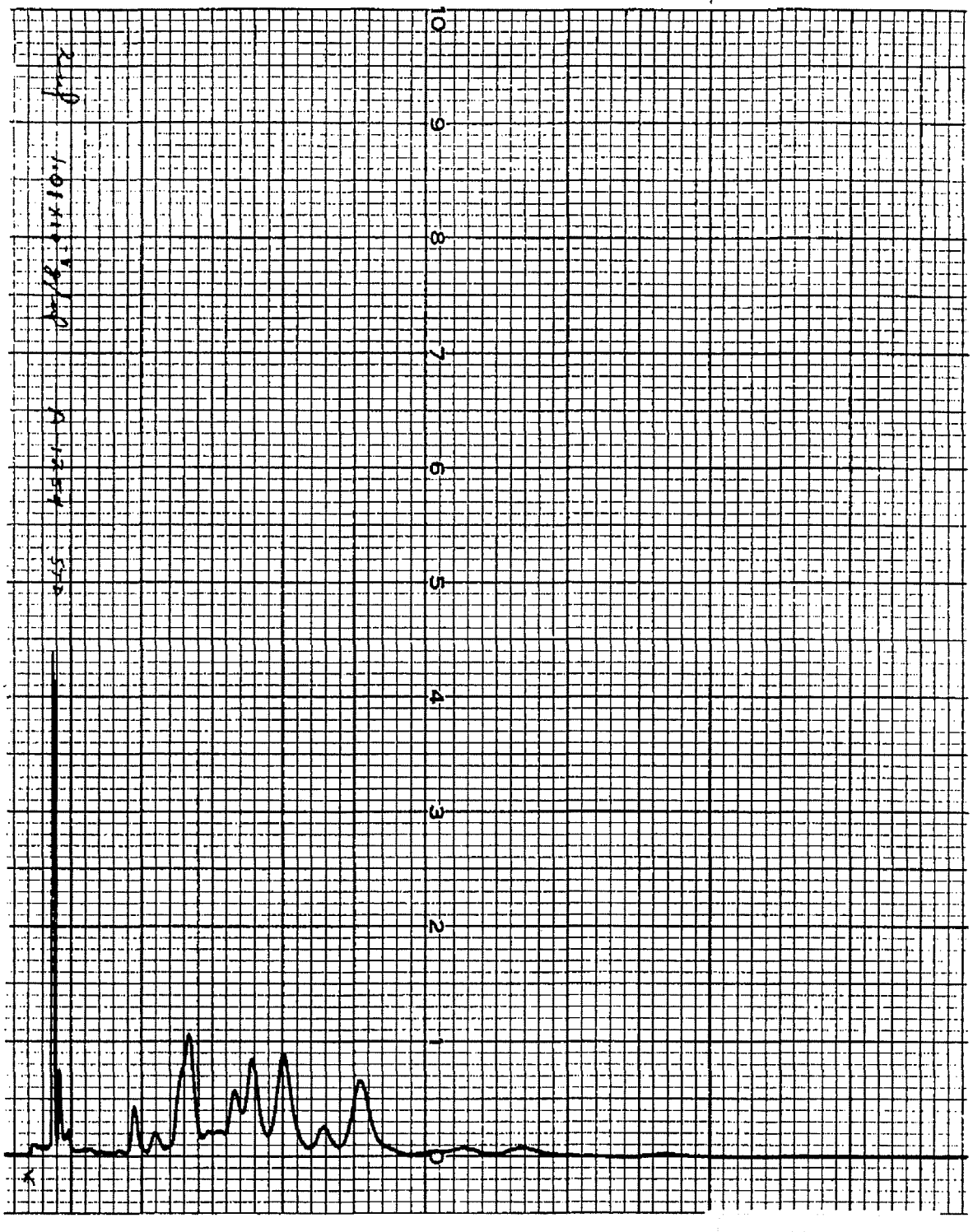

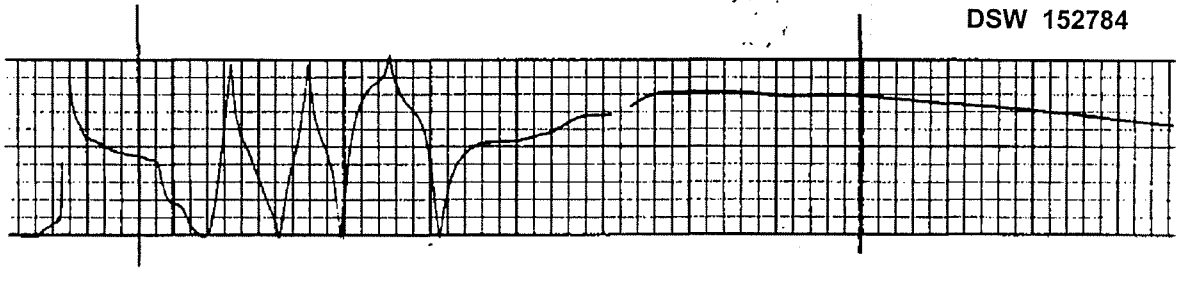

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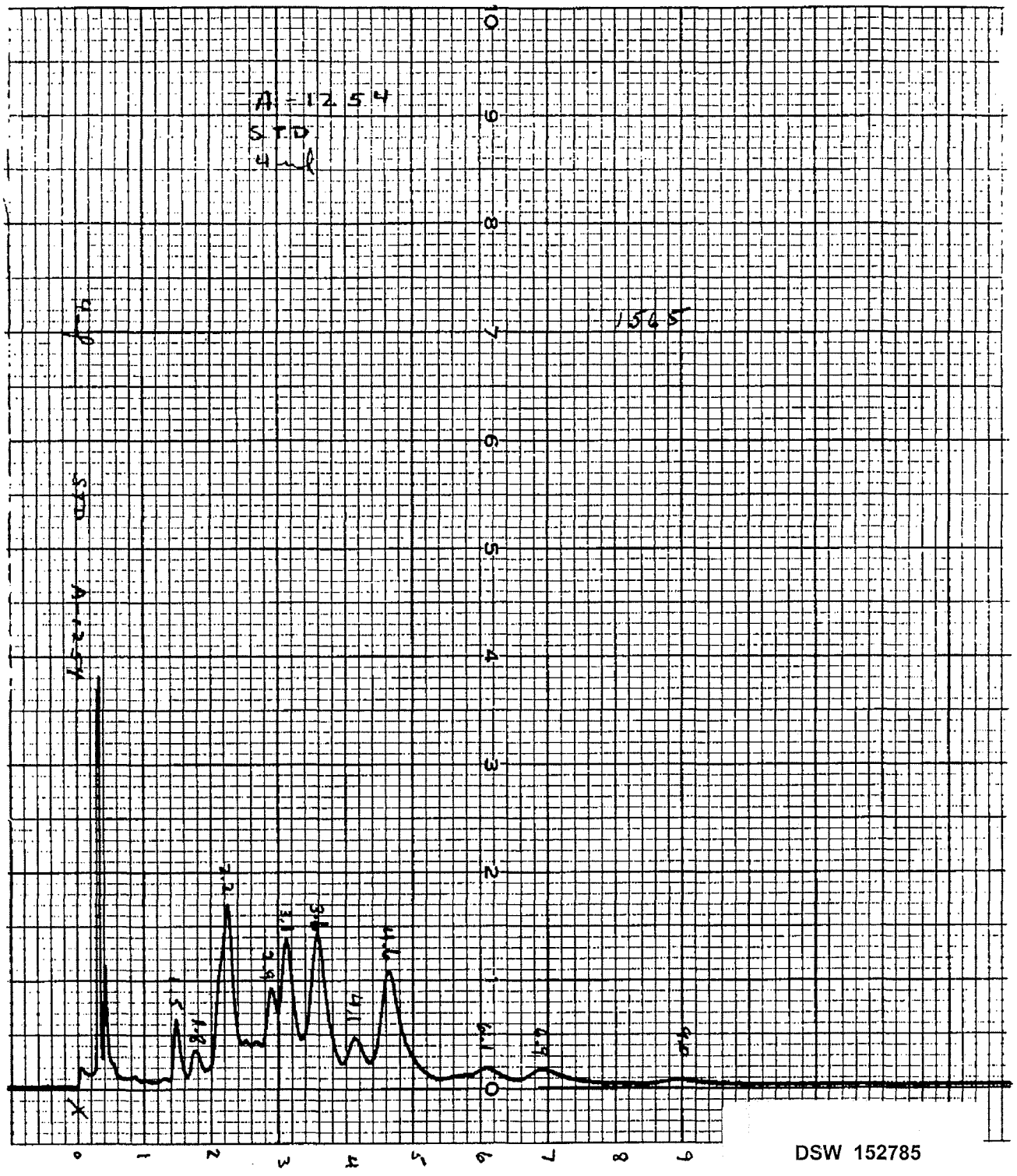

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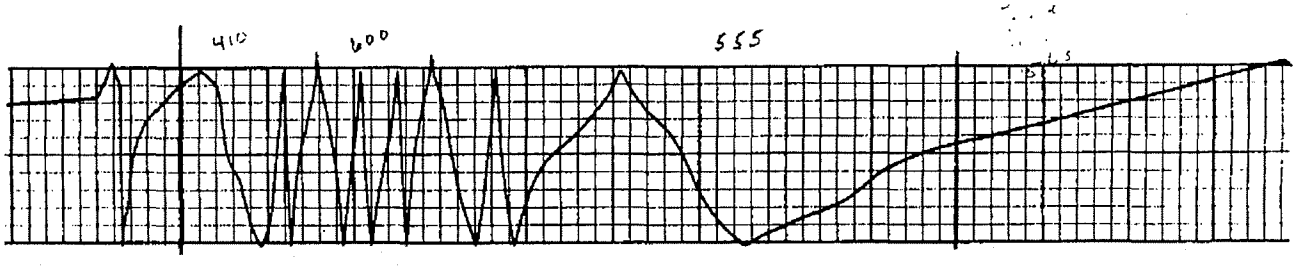



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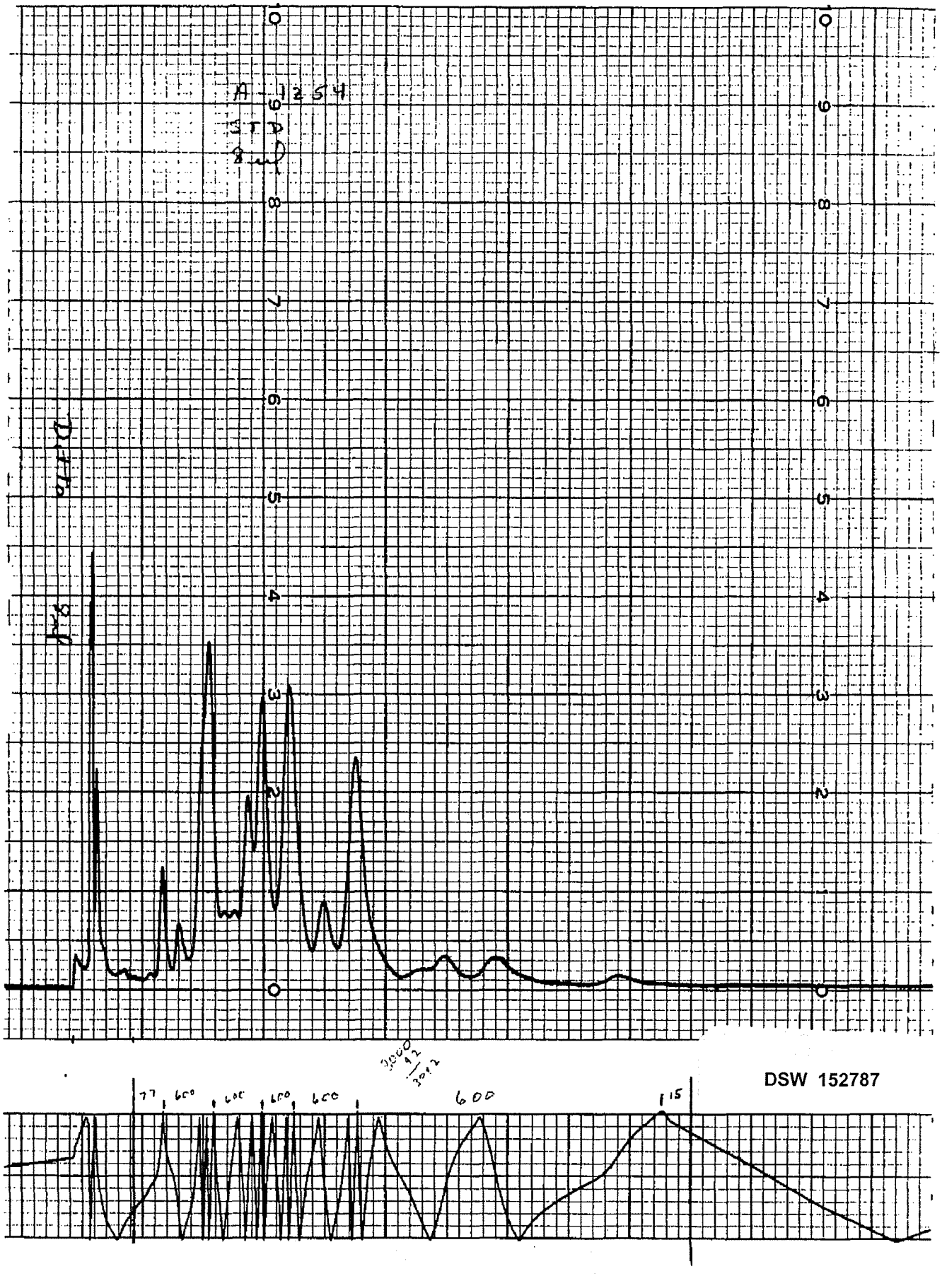
RECORDING CHARTS GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK



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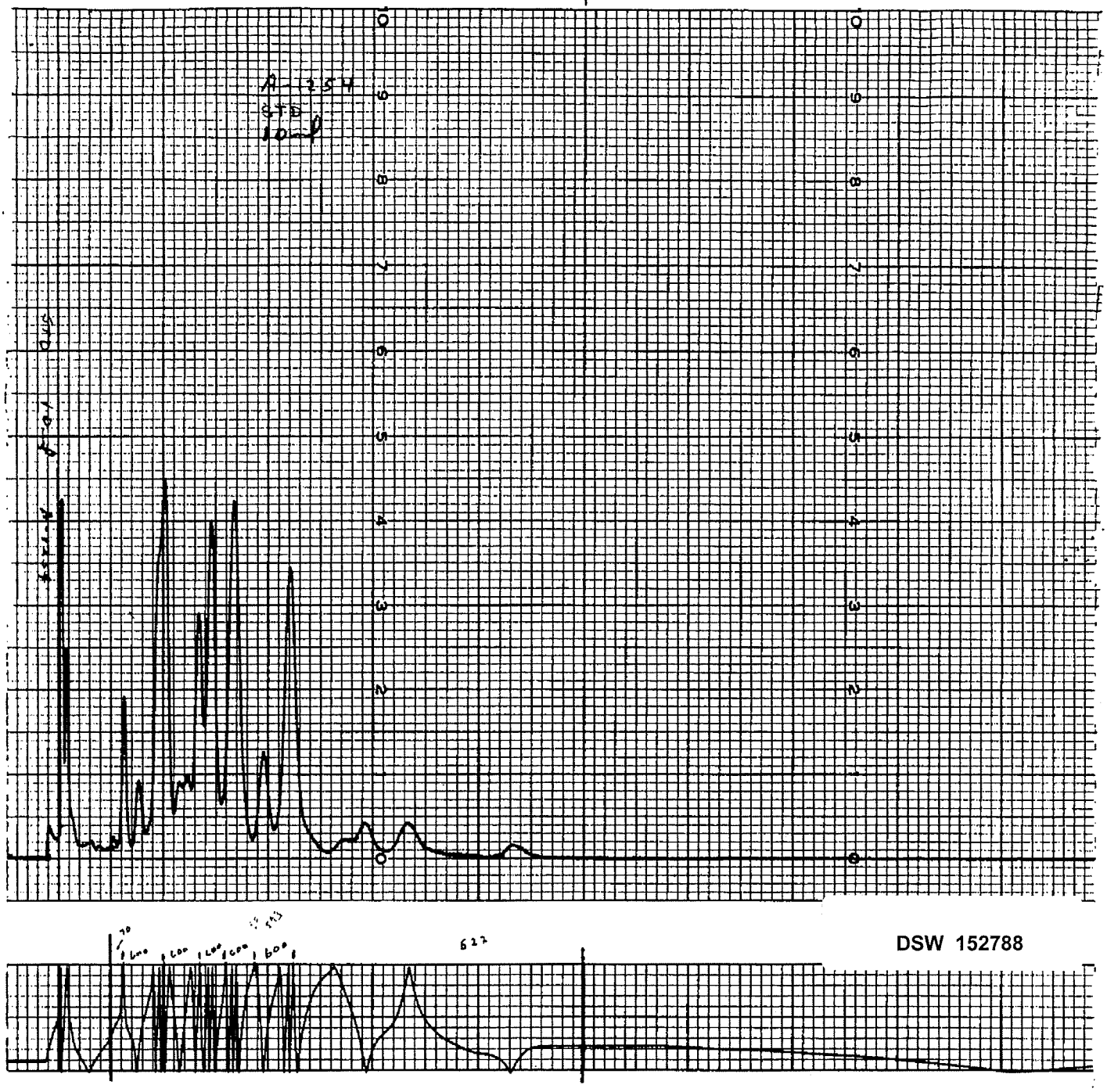

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