

March 20, 1995

FEDERAL EXPRESS

b6 -11
b7C -11

[Redacted]
Office of the Los Angeles
County District Attorney
Hall of Records
320 West Temple
Los Angeles, California 90012

RE: PEOPLE V. ORENTAL JAMES SIMPSON
LOS ANGELES SUPERIOR COURT
CASE NUMBER: BA097211
EDTA VALIDATION STUDIES AND
SHOE PRINT EXAMINATION CORRESPONDENCE

Dear [Redacted]

I am writing as a follow up to my letter to you dated March 3, 1995, to provide you additional discovery materials in the captioned case. Enclosed are the following:

b6 -11
b7C -11

1. Two (2) copies of the validation studies relating to EDTA tests performed by the FBI Laboratory; and

2. Two (2) copies of all notes and/or correspondence relating to contacts by [Redacted] with various shoe manufacturers.

The shoe print examination correspondence supplements the notes I provided to you in my March 3, 1995. I have now provided you with all of the notes and/or correspondence

Dep. Dir. 1 - Mr. H. M. Shapiro
Chief of Staff 1 - Mr. M. A. Ahlerich
Off. of Gen. Counsel 1 - [Redacted]
Asst. Dir.: 1 - [Redacted]
Crim. Inv. 1 - Mr. K. W. Nimmich
CJIS 1 - [Redacted]
Finance 1 - [Redacted]
Info. Res. 1 - [Redacted]
Insp. 1 - [Redacted]
Lab. [Redacted] (18)
National Security Personnel [Redacted]
Training [Redacted]
Off. of EEOA [Redacted]
Off. of Public & Cong. Affs. [Redacted]
Director's Office [Redacted]

1 - [Redacted]
1 - [Redacted]
1 - [Redacted]
1 - [Redacted]
1 - TLU (DNALAU)
1 - [Redacted]

b6 -1
b7C -1

MAIL ROOM

Handwritten: 3/20/95

Handwritten: Enclosures maintained in room 7829

FBI(24-cv-1564)-3091

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Trial charts and enlargements relating to the shoe print examinations are not yet complete. They will be forwarded to you as soon as they are completed.

Please do not hesitate to contact [redacted]
of my staff at (202) 324-8550 if you have any questions or need
further assistance in this matter.

Sincerely yours,

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Enclosures (3)

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[illegible]

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No. 11/13/95

Development of procedure for EDTA in blooduse 1 liter of $3 \times 10^{-3} M H_2SO_4$ have $2.5 N H_2SO_4$ need $\frac{3 \times 10^{-3} \text{ mol}}{2.5 \text{ n/liter}} = 1.2 \times 10^{-3} \text{ L} = 1.2 \text{ ml} / \text{liter } H_2O$ will also need 2ml $0.05 M CuSO_4$ FW $249.7 \text{ g/mol} / 0.05 \text{ M/L} \Rightarrow 9$ want $\approx 100 \text{ ml} : 0.05 \text{ mM} = 5 \text{ mM}$ or $5 \times 10^{-3} M CuSO_4$ $5 \times 10^{-3} \text{ moles} \times 249.7 \text{ g/mol} = 1.25 \text{ g}$
 $CuSO_4 \times 5 H_2O$ Flow 2ml / min. incubation PRP-X100 $\lambda = 254$
150 mm + conductivity

Sample prep	100 μ l	100 ppm EDTA	$\Rightarrow$ worked poorly
	200 μ l	0.05 M $CuSO_4$	
	800 μ l	$3 \times 10^{-3} M H_2SO_4$	

added MECH to make eluent 95/5 $3 \text{ n} H_2SO_4 / MECH$ new sample prep 50% EDTA $\Rightarrow$ worked well
50% $CuSO_4$ RT $\approx 5.8 \text{ min}$ EDTA also appears at $\approx 4.3 \text{ min}$ when no Cu added
at $\approx 1/4$ the sensitivity

I am concerned about

Cu-EDTA remaining on column following injection

will test this possibility and run control

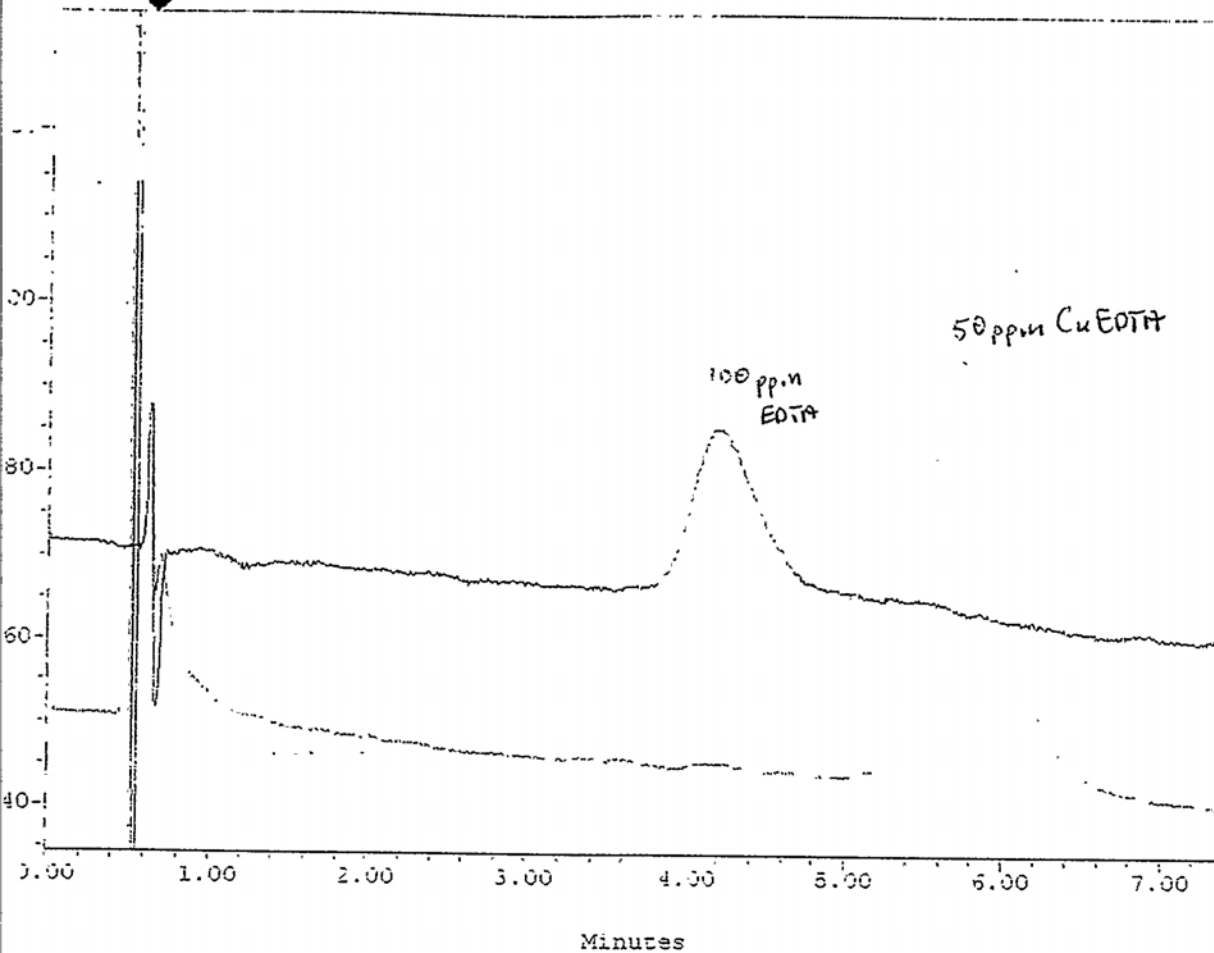
samples.

A test of $CuSO_4$ shows no response so EDTA is not a problem

Injection of EDTA w/ no Cu shows a second peak

which may be Cu-EDTA from residual Cu? or injector

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Name: 100ppmedta Vial: 1 Inj: 2 Ch: SIM Ch2 Type: Unknown

Blue: 50 pp.m EDTA / 0.025 M Cu SO₄

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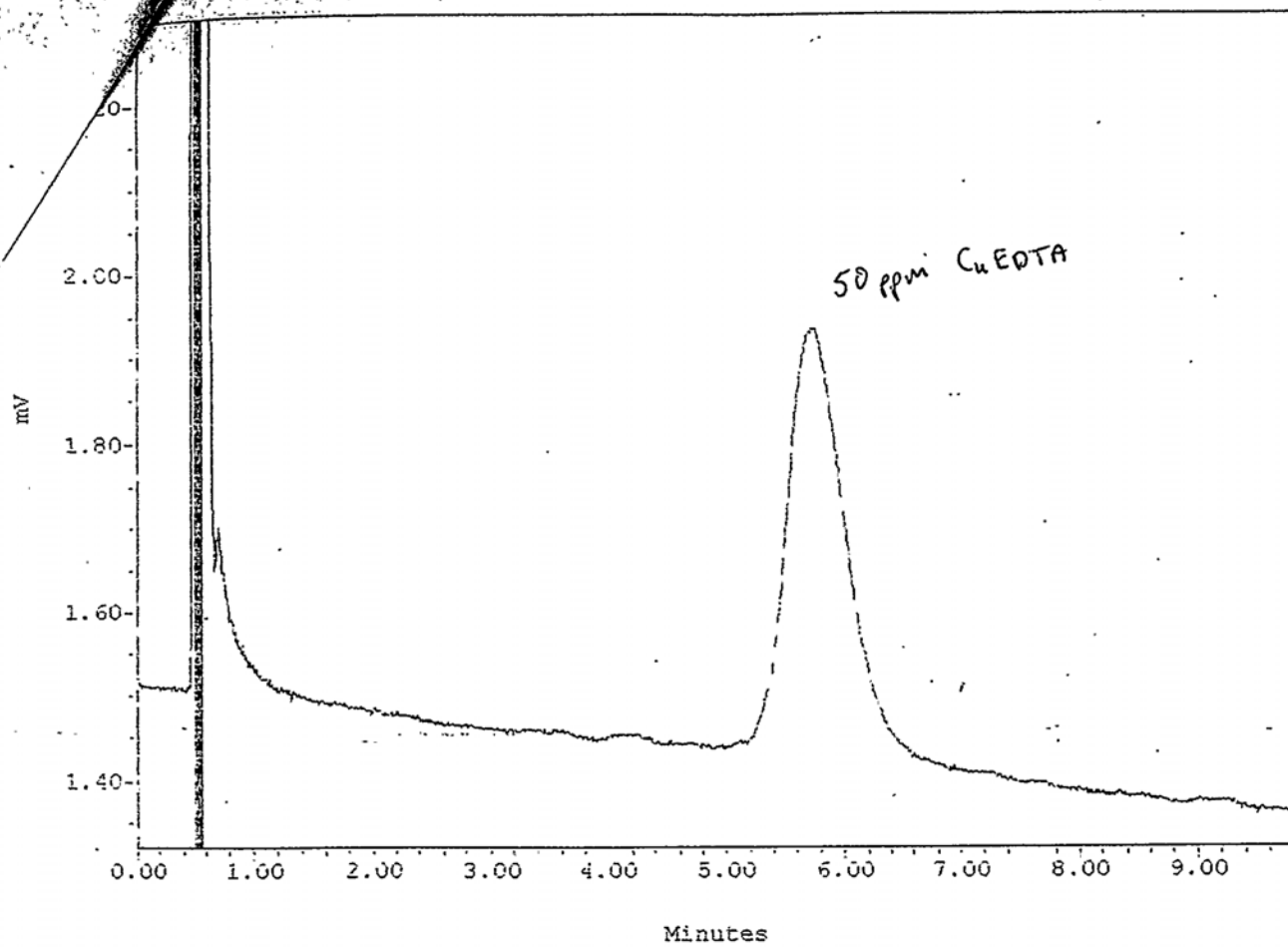
Used & Understood by me,

Date

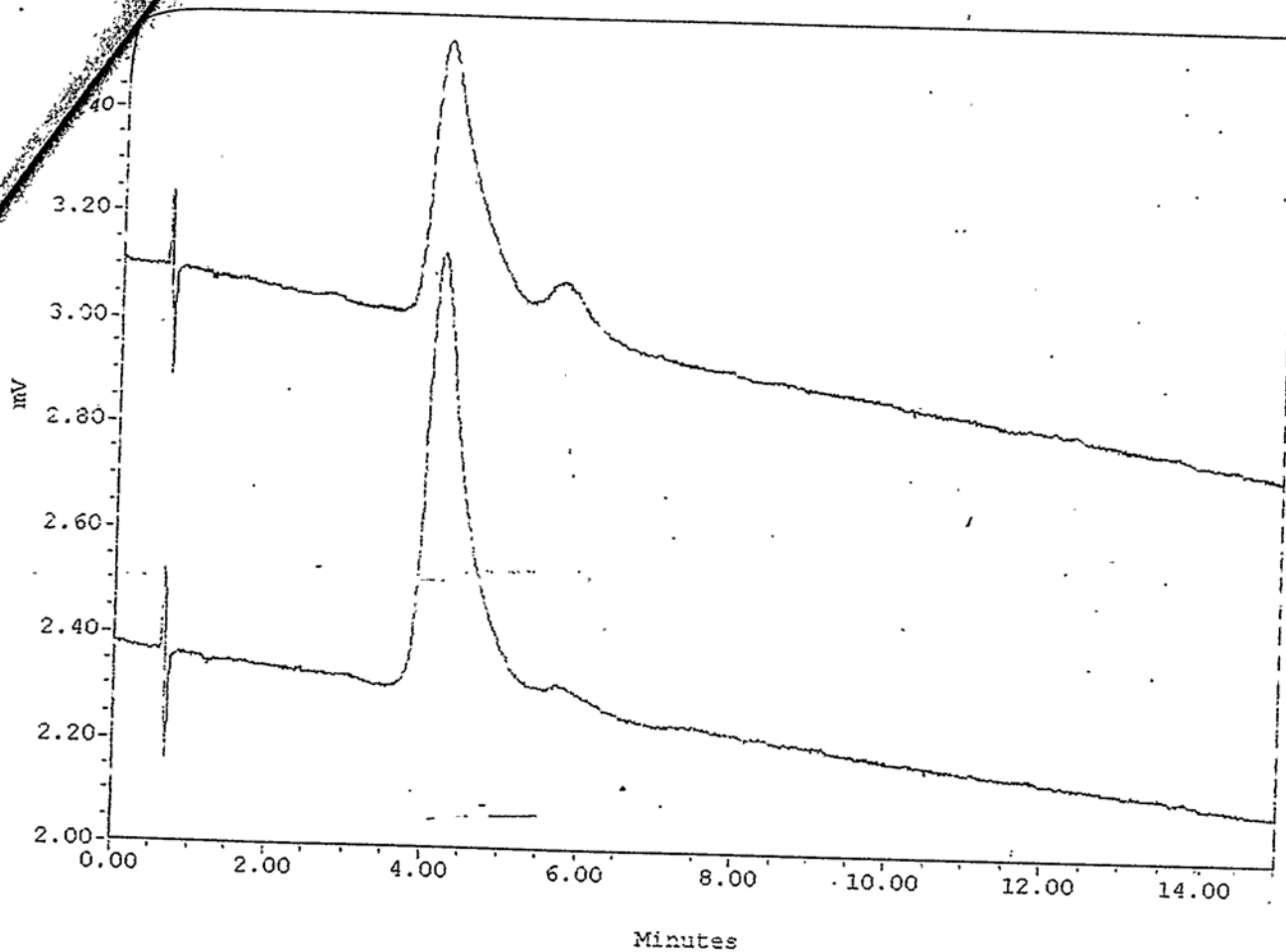
Invented by

Date

FBI(24-cv-1564)-3094



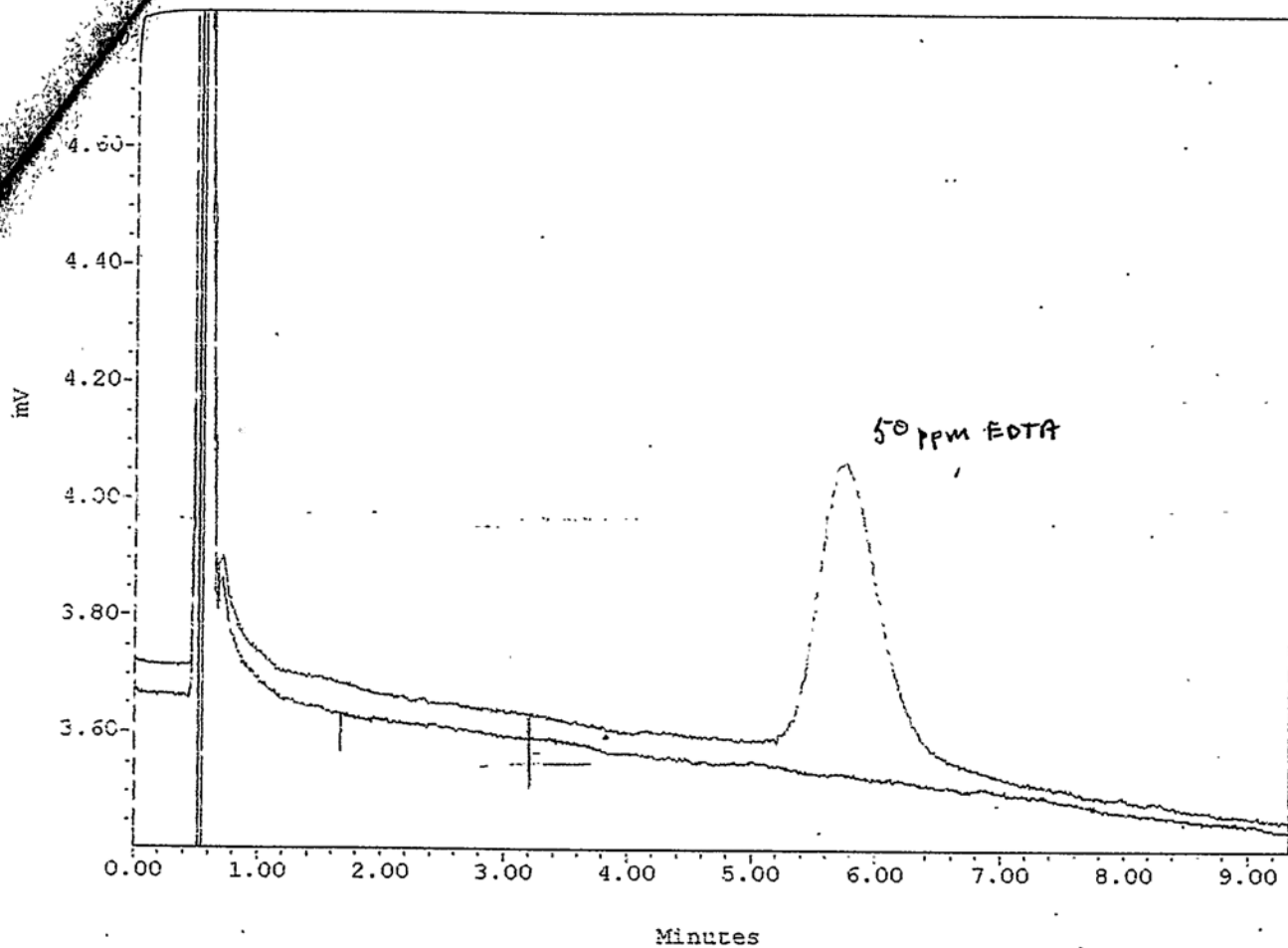
SampleName: 50ppmedtacu Vial: 1 Inj: 3 Ch: SIM Ch2 Type: Unknown



SampleName: 50ppmedta/h2O Vial: 1 Inj: 13 Ch: SIM Ch2 Type: Unknown

overlay
of 2 injections
50 ppm EDTA
20ul injections

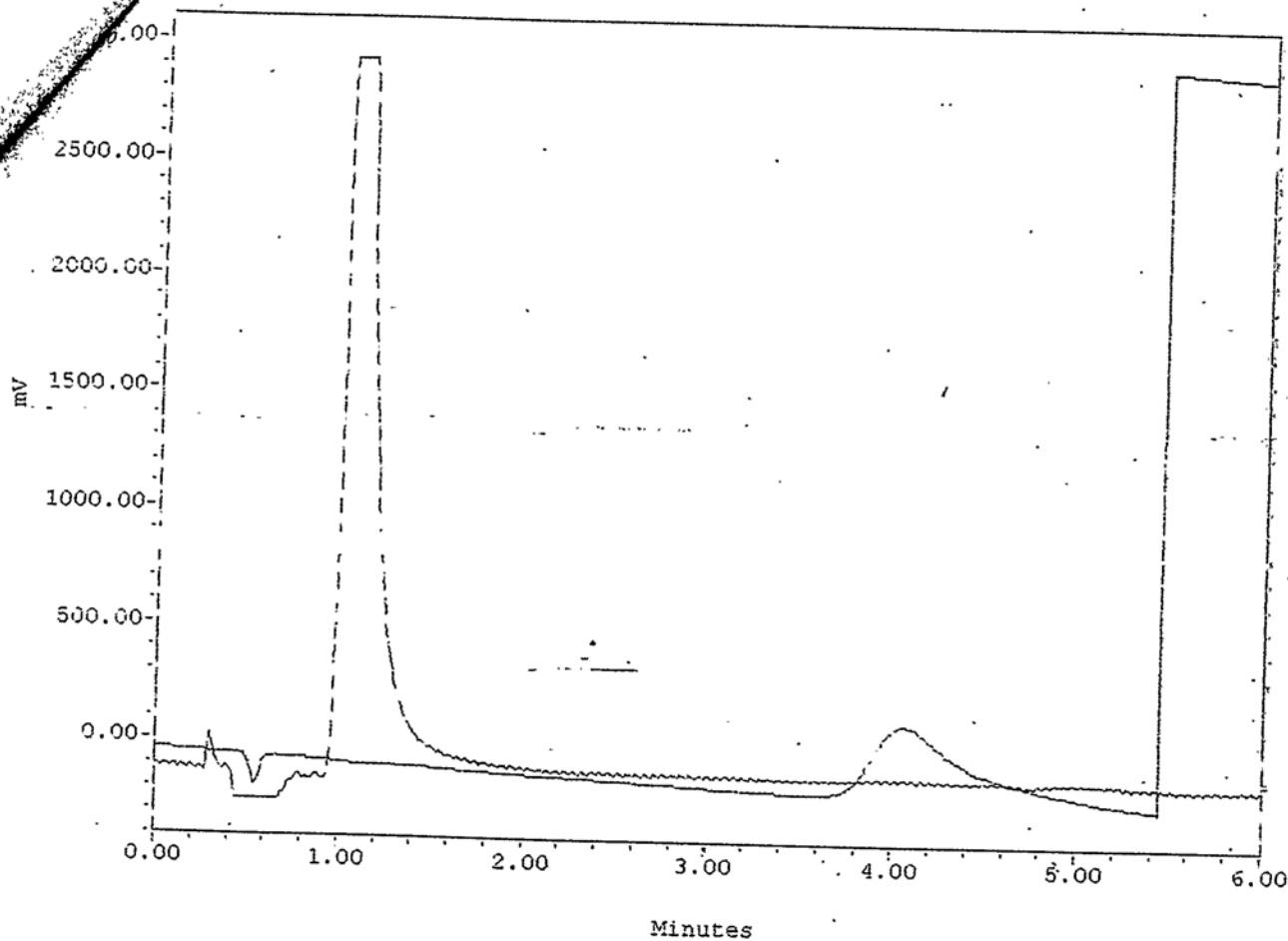
Second peak may be CuEDTA
carryover or contaminant



SampleName: cuso4/h201:1 Vial: 1 Inj: 12 Ch: SIM Ch2 Type: Unknown

Overlay with 50/50 CuSO₄ / 100 ppm EDTA

Shows that the peak at 5.8 min is not from
the Copper Sulfate



SampleName: 100ppmedta Vial: 1 Inj: 5 Ch: SIM.Ch1 Type: Unknown

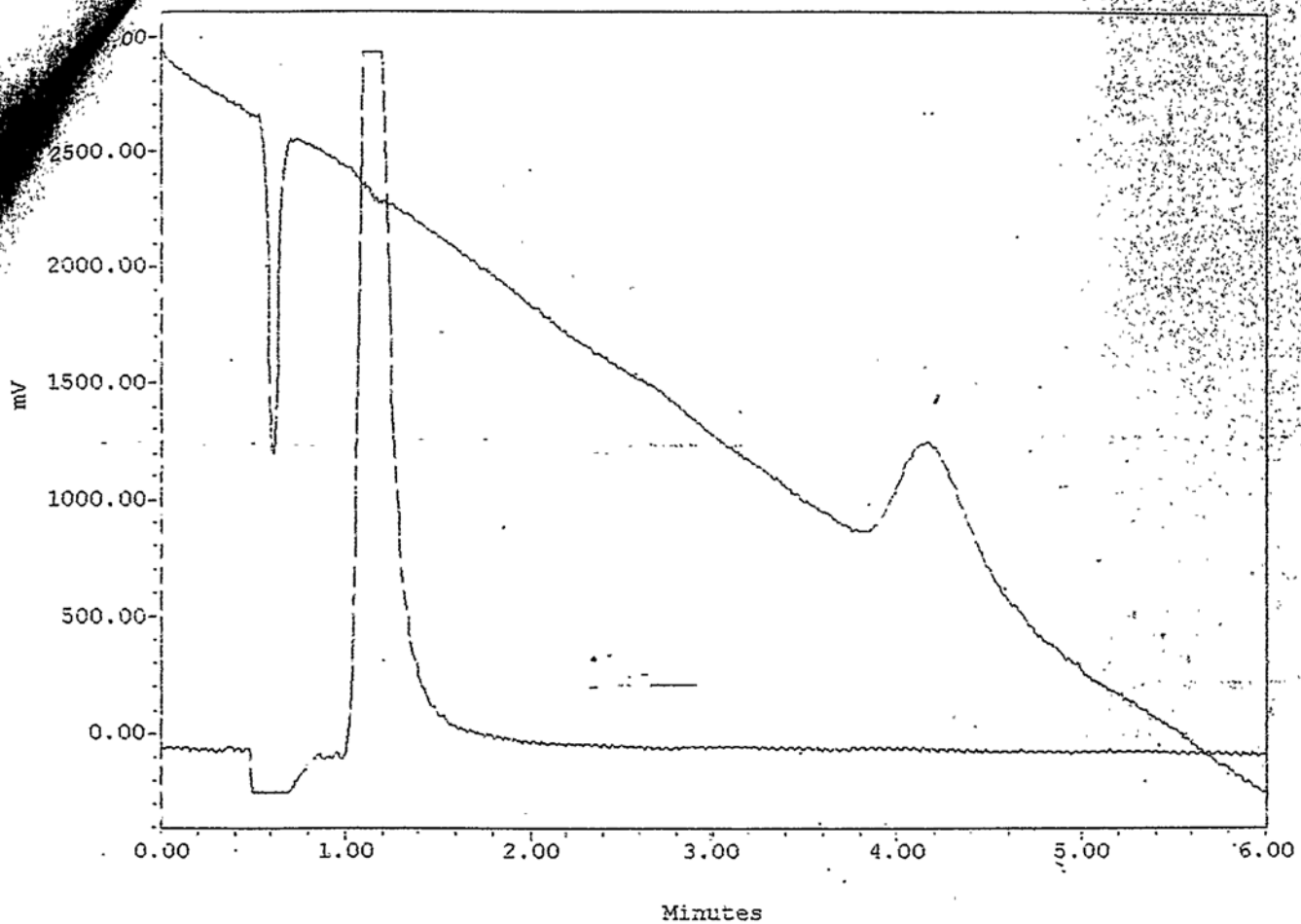
Conductivity
254 μ m

Hamilton PPP X100

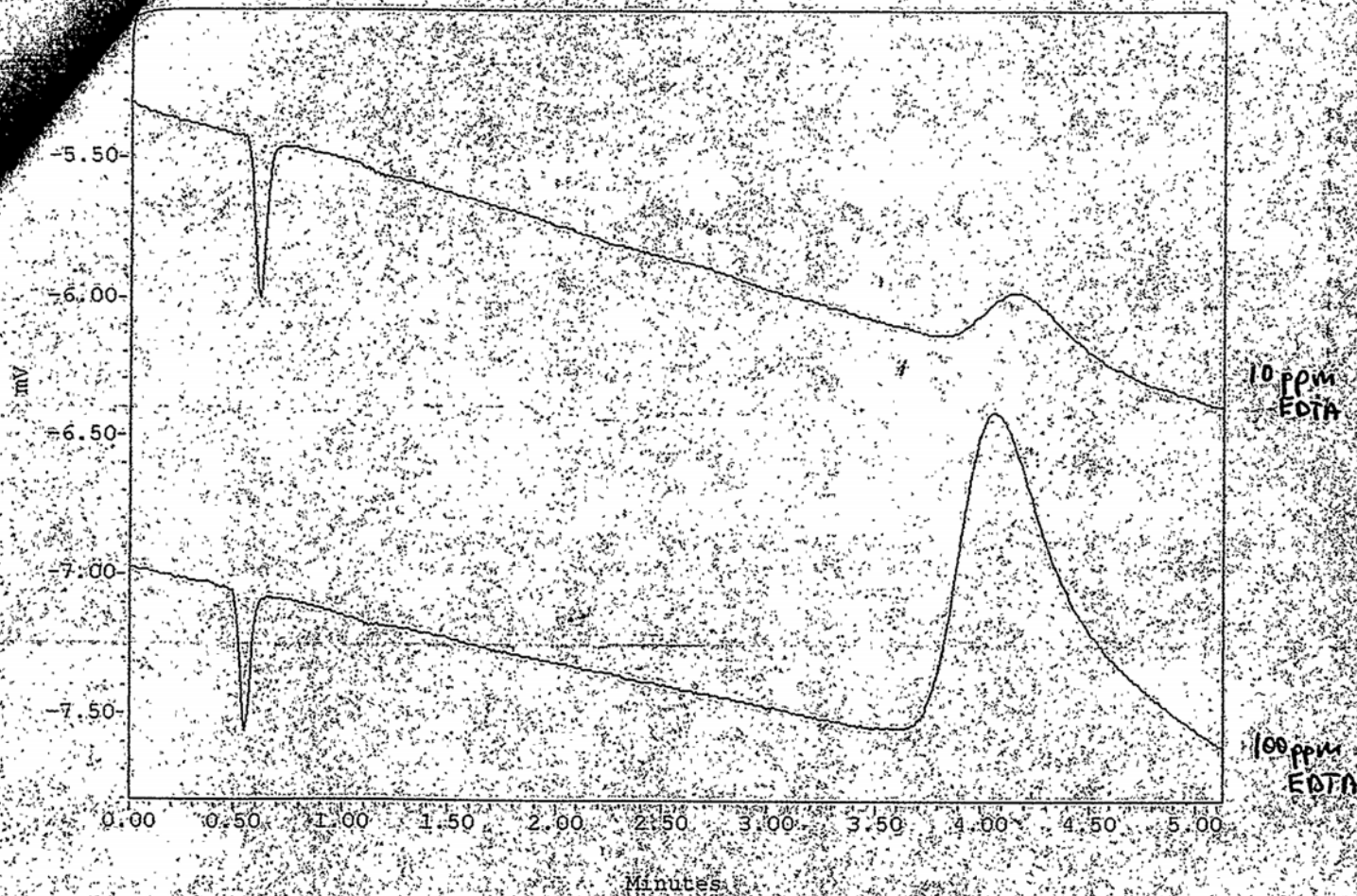
λ = 254, conductivity

3 mM Sulfuric acid

20 μ l injection



SampleName: 10ppm edta 20u Vial: 1 Inj: 4 Ch: SIM Ch1 Type: Unknown Conductivity
Blue: 4v.254



SampleName: 100ppmedta Vial: 1 Inj: 5 Ch: SIM Ch2 Type: Unknown

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1/17/94

MORE EDTA tests

Received Vacutainer vials from B. B. ex LA

P/w 6457 0.1 ml 15% EDTA

$$\begin{array}{lcl}
 \text{Conc in 10 ml} & 0.1 \text{ ml} \times 15\% & = 1.5 \text{ g EDTA} \\
 0.02 & 0.002 \text{ g} & 2 \text{ mg / 100 ml} = 2000 \text{ ppm} \\
 \frac{1.5 \text{ g}}{10 \text{ ml}} \Rightarrow & \frac{0.15 \text{ g}}{\text{ml}} & \frac{1.5 \text{ g}}{10 \text{ ml}} = 150,000 \text{ ppm} \\
 & & \text{in 10 ml tube}
 \end{array}$$

Will dilute sample $\frac{1}{1000}$, boil, centrifuge & Run

$$\frac{2}{1000} = 0.002 \times 2000 \text{ ppm} = 4 \text{ ppm}$$

$$\frac{20}{1000} = 40 \text{ ppm}$$

Experimental

took 2 vacutainers

in one added 10 ml H₂Osecond added 4.8 ml of blood serum -

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ade two samples from first vacutainer

$$\text{A) } 10 \text{ ml diluted to } 5 \text{ ml} \quad \frac{2}{1000} = 4 \text{ ppm}$$

$$\text{B) } 100 \text{ ml diluted to } 5 \text{ ml} \quad \frac{20}{1000} = 40 \text{ ppm}$$

Fresh eluent was prepared

$$\begin{array}{ll}
 3 \text{ M H}_2\text{SO}_4 & 95\% \\
 \text{MEOH} & 5\%
 \end{array}$$

Note an extra peak was observed in samples from the previous day.

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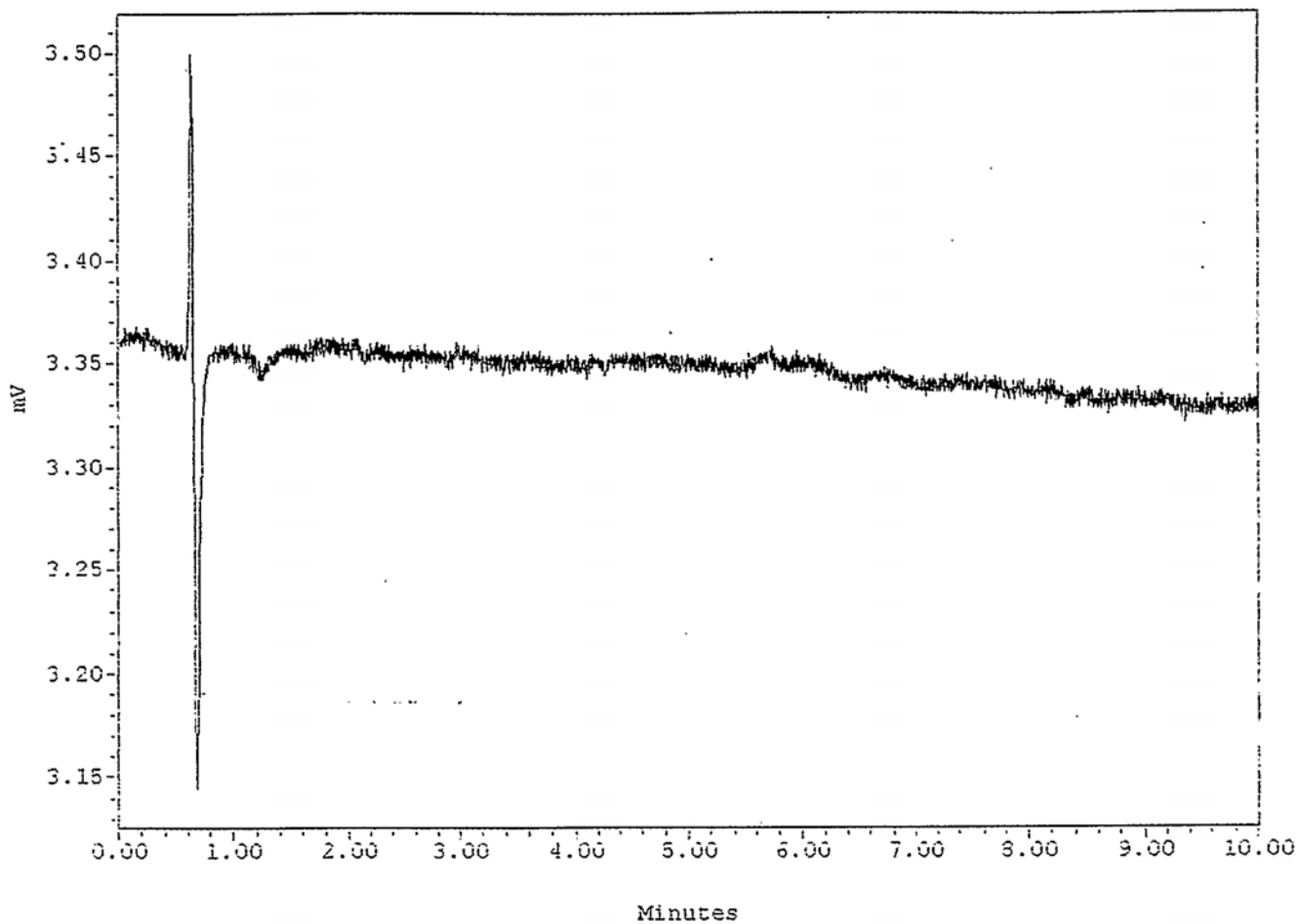
ed & Understood by me,

Date

Invented by

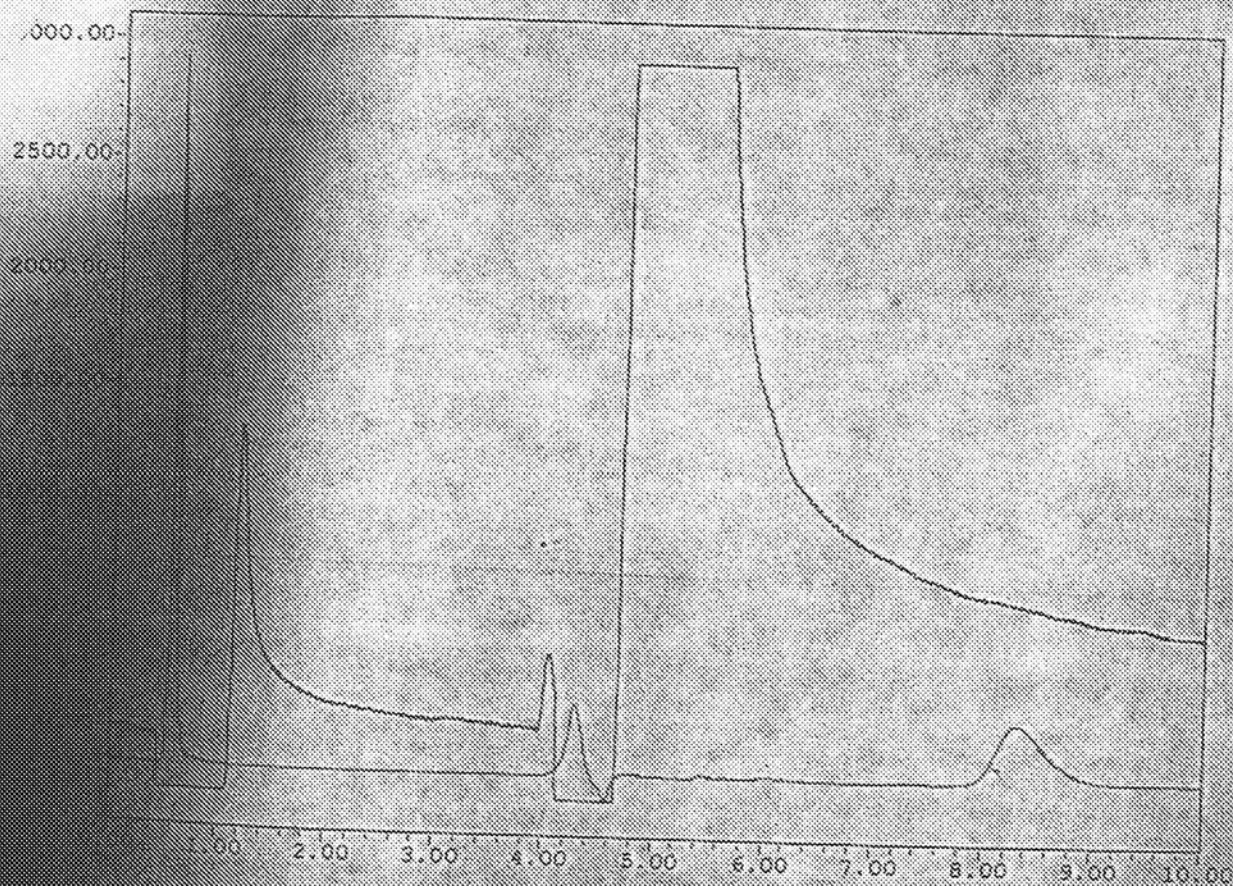
Date

FBI(24-cv-1564)-3101



SampleName: water Vial: 1 Inj: 5 Ch: SIM Ch2 Type: Unknown

Water Blank

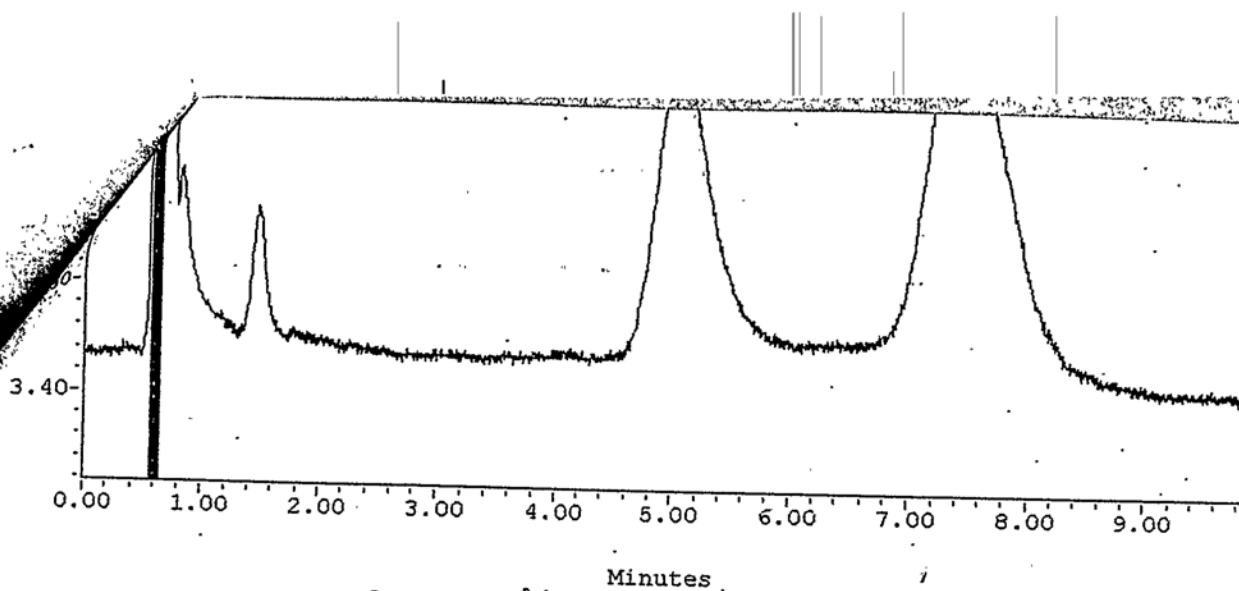


new sample Sample A

name: vacutw/025cuS Vial: 1 Inj: 7 Ch: SIM Ch1 Type: Unknown

Vacuutainer 50%

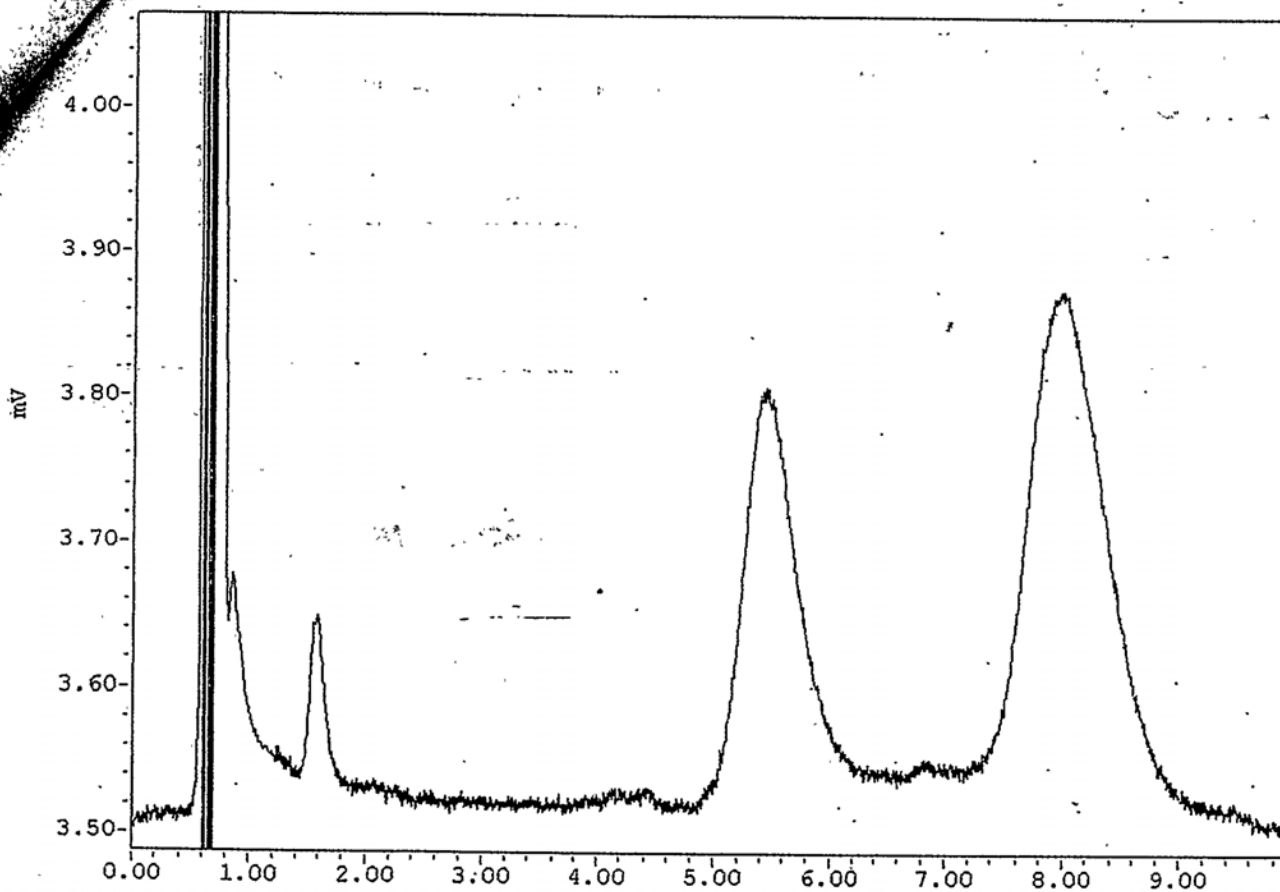
Copper sulfate 50%



2 day + old sample

SampleName: 50ppme+cuso4 Vial: 1 Inj: 4 Ch: SIM Ch2 Type: Unknown

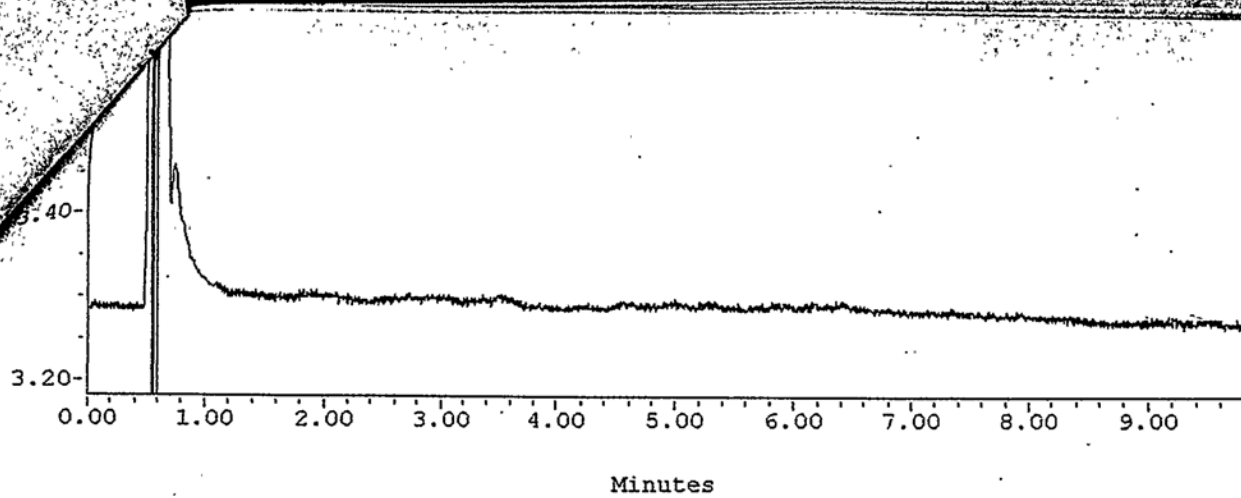
50 ppm EDTA
0.025 M CuSO₄



2 day + old sample^{Minutes}

SampleName: 50ppme+cuso4 Vial: 1 Inj: 3 Ch: SIM Ch2 Type: Unknown

50 ppm Cu EDTA
0.025M CuSO₄



SampleName: CuSO4 .o25m Vial: 1 Inj: 6 Ch: SIM Ch2 Type: Unknown

Copper sulfate Blank

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Fresh eluent and samples prepared

assume extra peaks a degradation product of EDTA + CuSO_4 ?

These results appear as before. Note

vials were out of order in autosampler tray

files were as follows

control CuSO_4 — 0.025 M CuSO_4

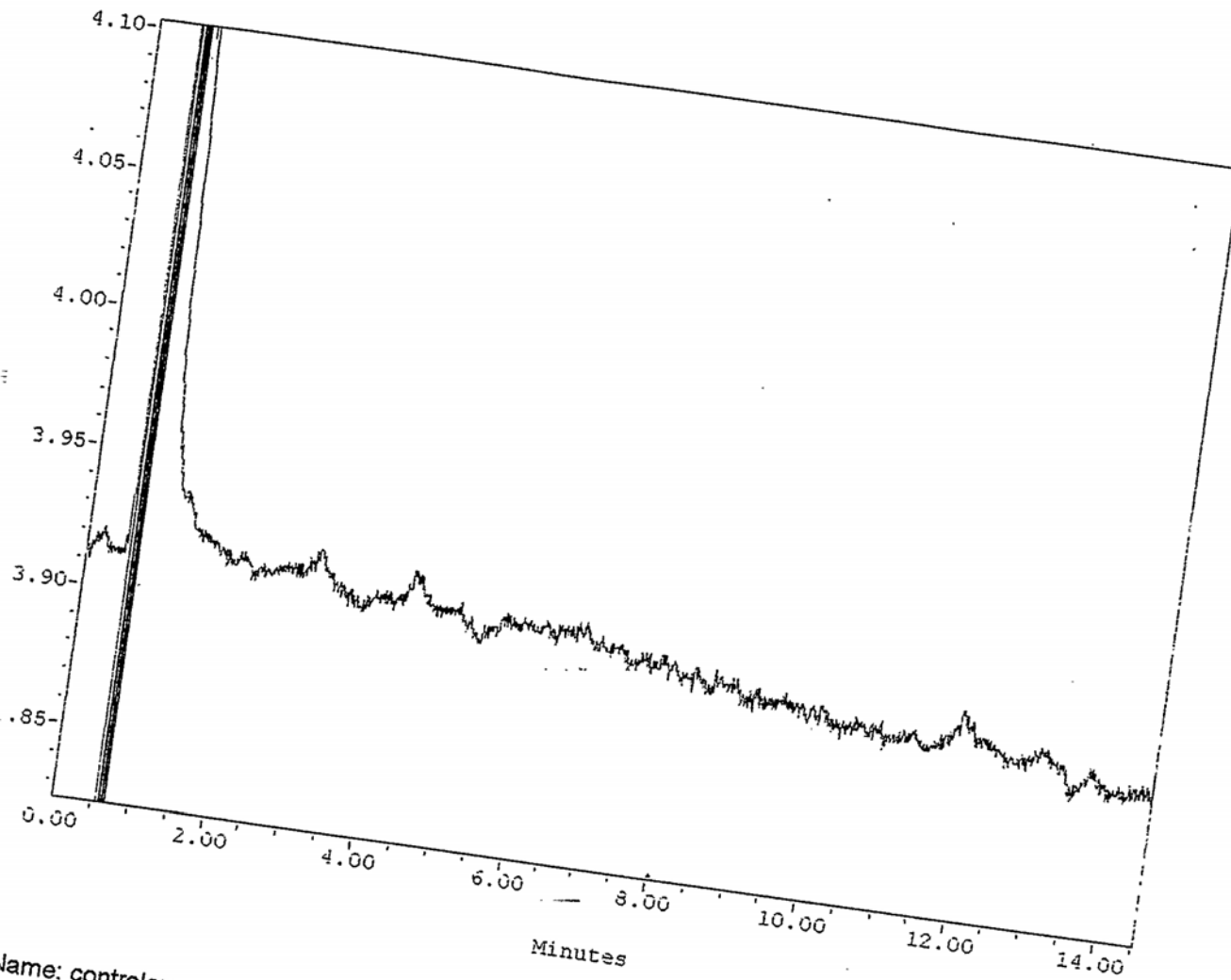
100 $\text{ED}^{5\text{w}}/\text{Cu}$ → 100 μl EDTA from 10 μl H_2O placed
in vacutainer, diluted to 5 μl
1:1 w/ H_2O

100 μl EDTA/5w → 100 μl EDTA from 10 μl H_2O placed
in vacutainer, diluted to 5 μl
1:1 w/ 0.05 CuSO_4

True EDTA peak is ~ 4.6 min

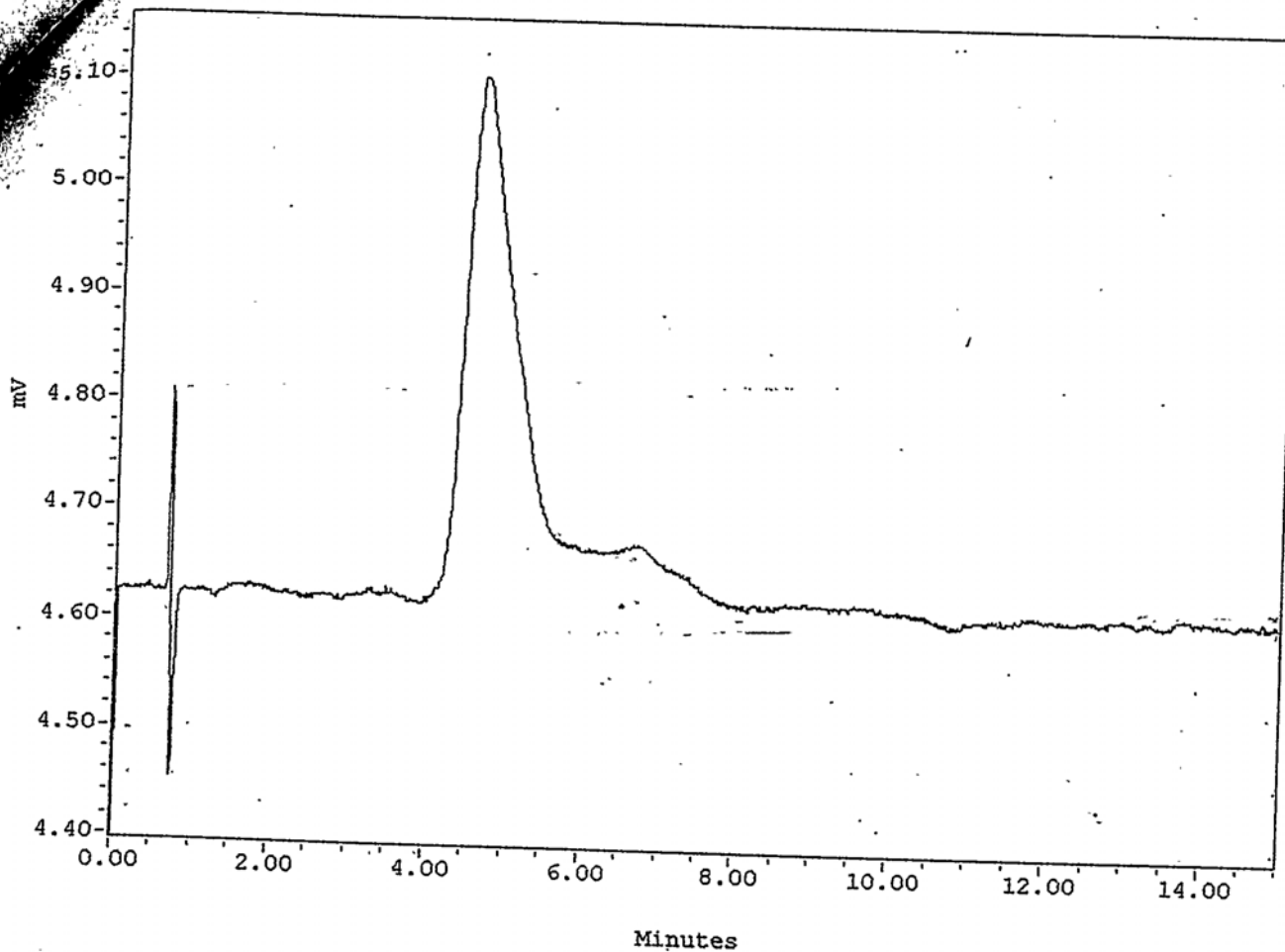
Cu EDTA peak is ~ 6.8 min

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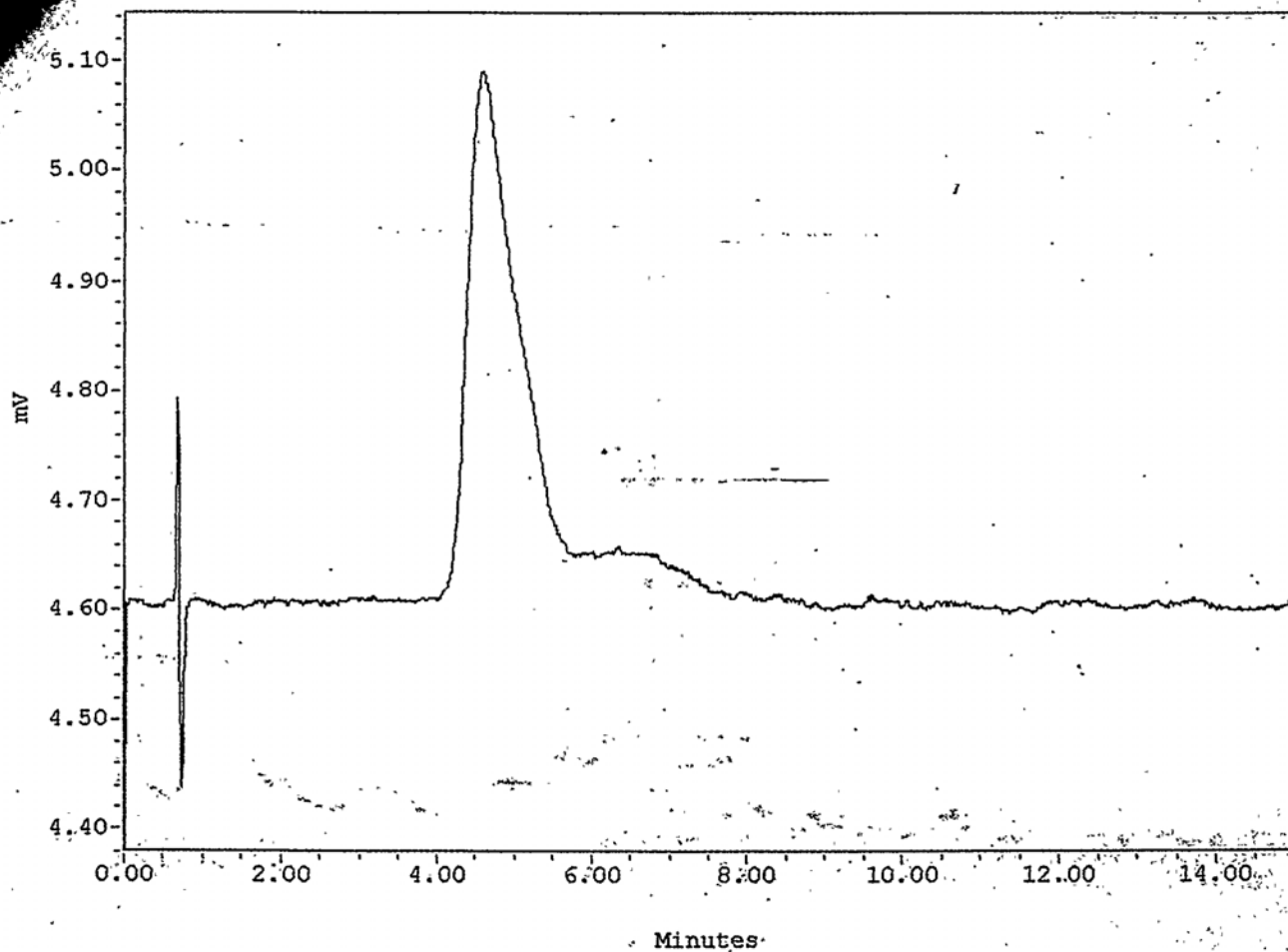
Name: controlcuso4 Vial: 1 Inj: 1 Ch: SIM Ch2 Type: Unknown

Contains water + copper sulfate
0.025M CuSO₄



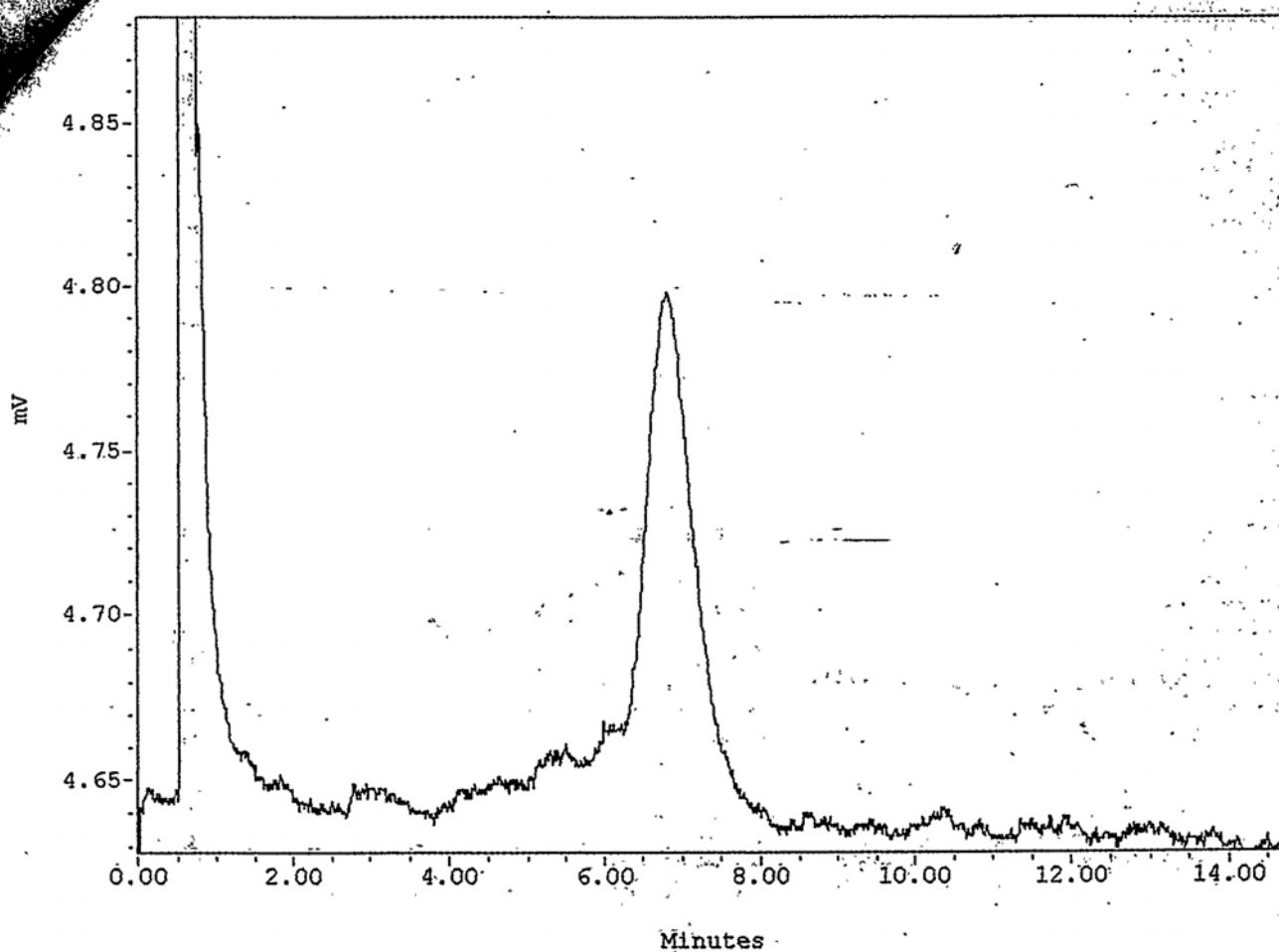
SampleName: 100E5wdu Vial: 3 Inj: 1 Ch: SIM Ch2 Type: Unknown contains no copper

contains 100 μ l EDTA from 10ml H_2O in a Vacutainer
diluted to 5 ml
in a 1:1 dilution with water



SampleName: 100E5wA Vial: 3 Inj: 2 Ch: SIM Ch2 Type: Unknown contains no copper

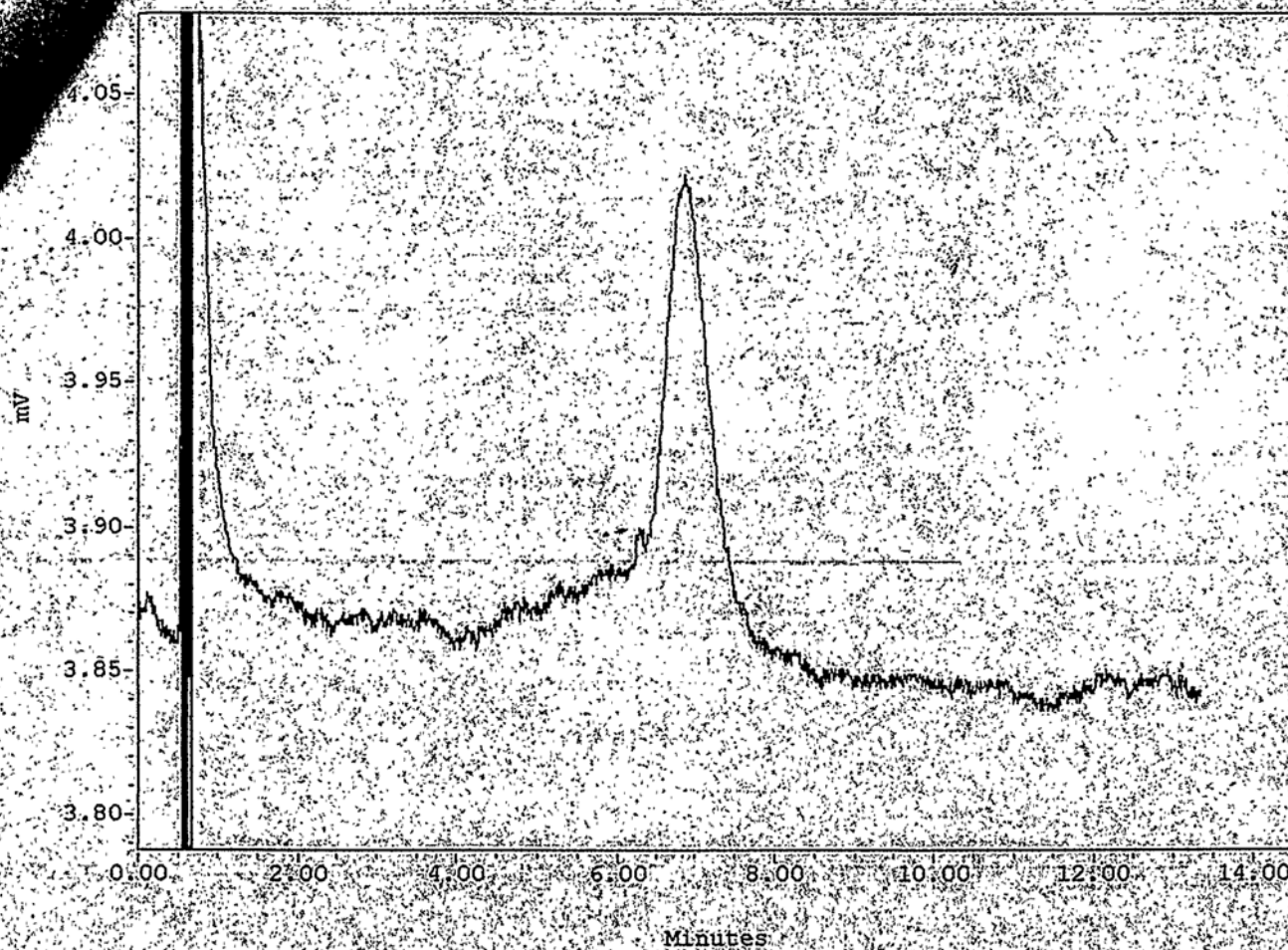
Contains 100 μ l EDTA from 10 ml H₂O in a vial container
diluted 1:1 with water



SampleName: 100uledta/5w Vial: 2 Inj: 2 Ch: SIM Ch2 Type: Unknown

contains 100ul EDTA from 10ul H₂O in Vacutome
diluted to 5ml

In a 1:1 dilution w/ Copper Sulfate



SampleName: 100uledta/5w Vial: 2 Inj: 1 Ch: SIM Ch2 Type: Unknown

contains EDTA 100 μ l from 10 μ l of water in a vial
diluted to 5 ml

in a 1:1 dilution with copper sulfate

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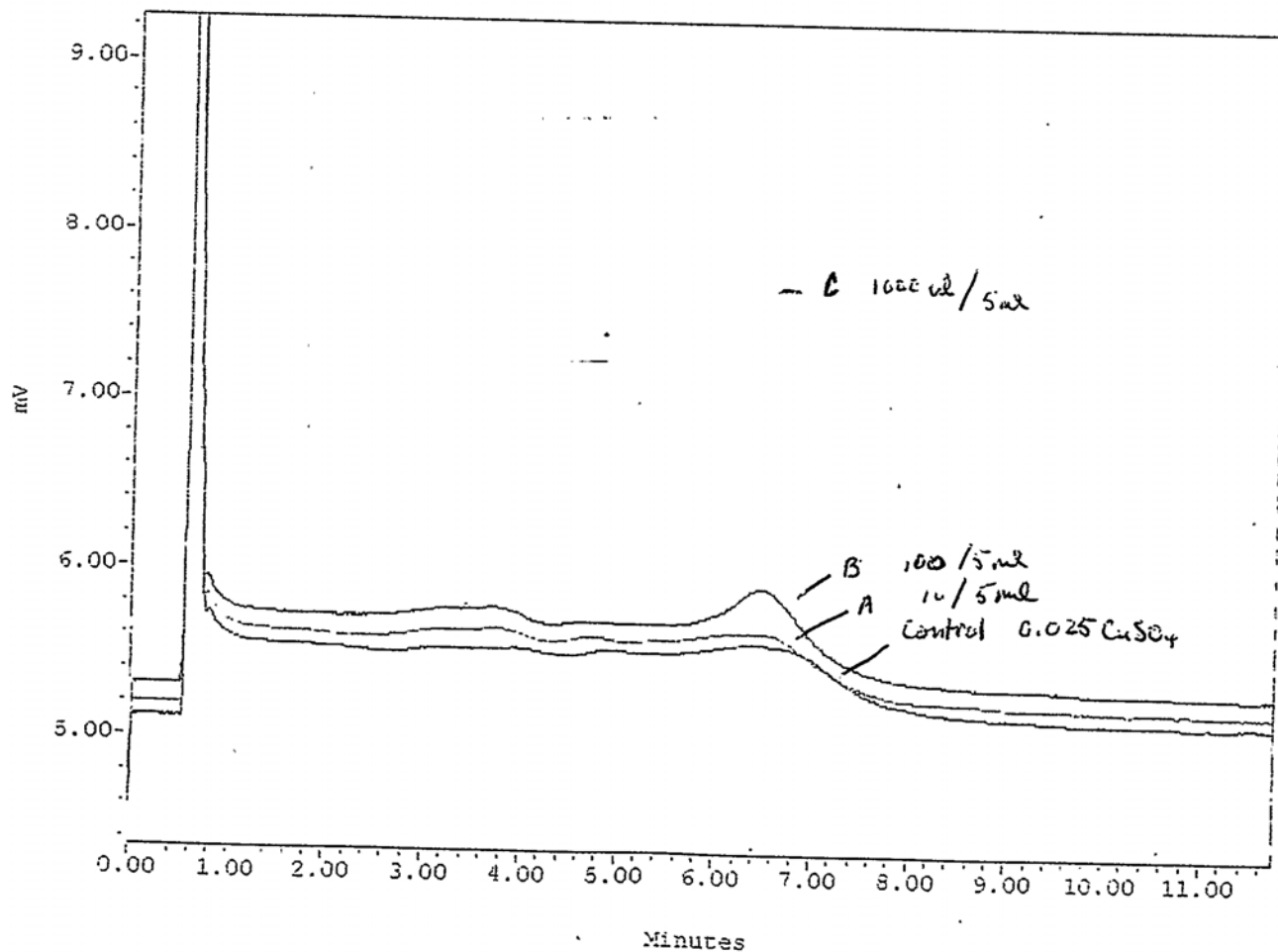
1/23/95

Re RAN The samples A, B from p 14

same conditions

also prepared a sample using 1/5 dilution
of the vacutainer in H₂O diluted to 5ml

500 1000ul / 5ml = 1:1 dilution w/
of vacutainer CuSO₄ 0.05M
400 ppm



SampleName: cntrl Vial: 1 Inj: 1 Ch: SIM Ch2 Type: Unknown

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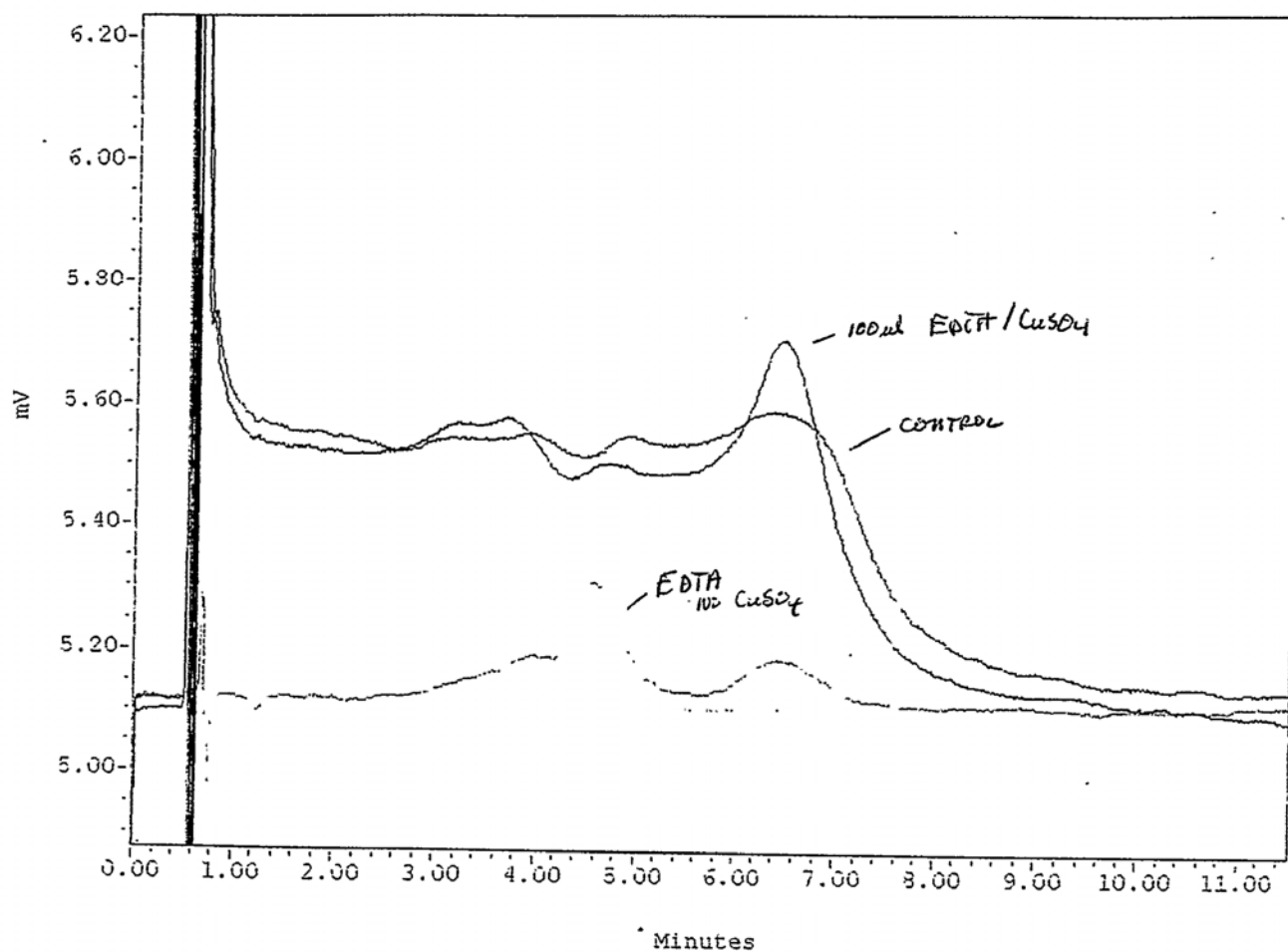
Date

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Date

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FBI(24-cv-1564)-3113



SampleName: cntrl Vial: 1 Inj: 1 Ch: SIM Ch2 Type: Unknown

File 5

Channel Table

#	SampleName	SampleType	Date Acquired	Vial	I
1	cntrl	Unknown	01/23/95 11:28 AM	1	
2	100E/v/5/w	Unknown	01/23/95 11:42 AM	2	
3	10E/v/5/cu	Unknown	01/23/95 11:57 AM	3	
4	100E/v/5/cu	Unknown	01/23/95 12:11 PM	4	
5	1000E/v/5/cu	Unknown	01/23/95 12:25 PM	5	
6	old100E/cu	Unknown	01/23/95 12:39 PM	6	

C 0.25 M CuSO₄
 (100ul/5ml)/10ml vacutainer
 10ul/5ml "
 100 " "
 1000 " "
 100 " "

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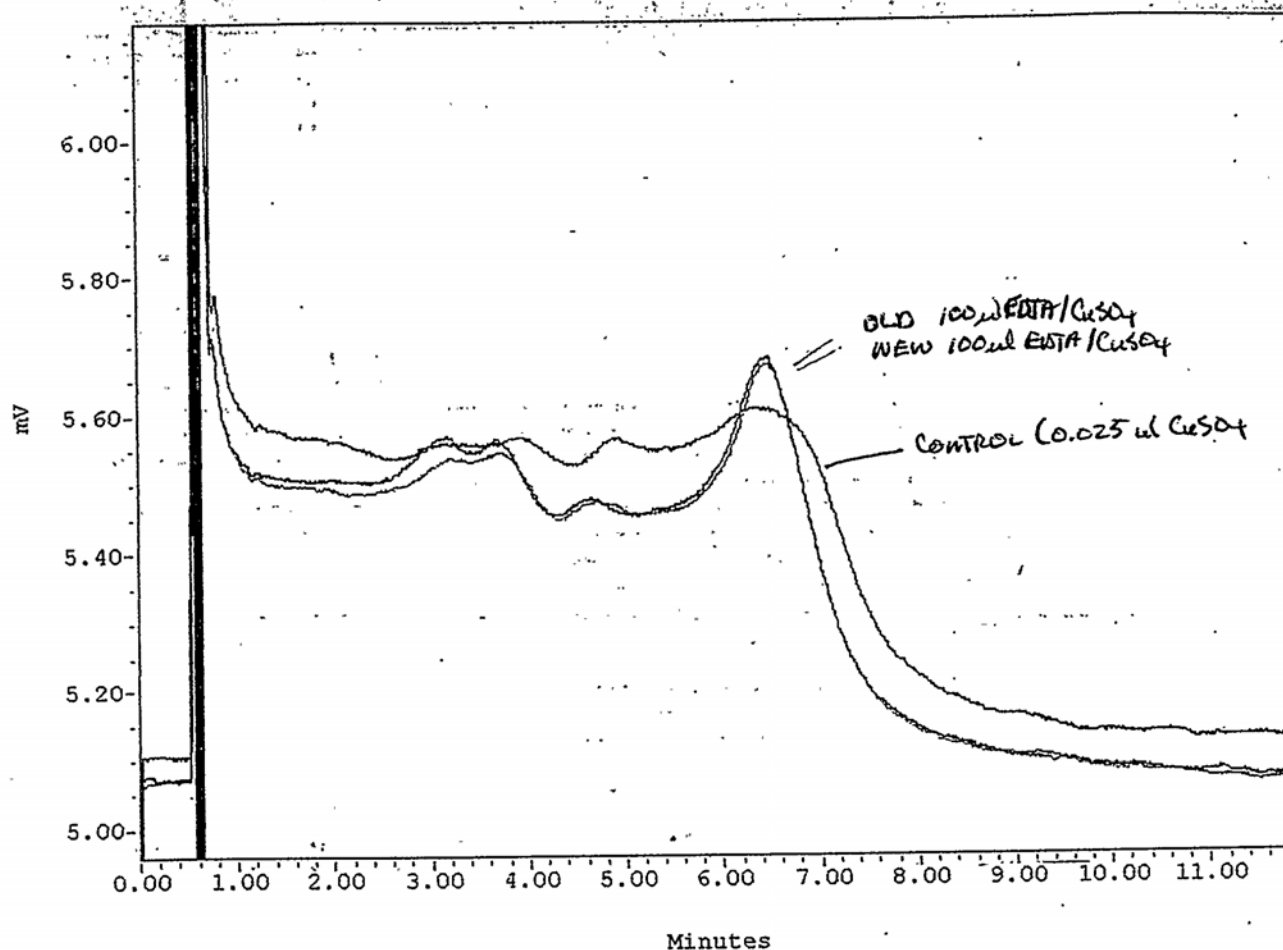
ssed & Understood by me,

Date

Invented by

Date

FBI(24-cv-1564)-3114



SampleName: old100E/cu Vial: 6 Inj: 1 Ch: SIM Ch2 Type: Unknown

files

Channel Table

#	SampleName	SampleType	Date Acquired	Vial	I
1	cntrl	Unknown	01/23/95 11:28 AM	1	
2	100E/v/5/w	Unknown	01/23/95 11:42 AM	2	
3	10E/v/5/cu	Unknown	01/23/95 11:57 AM	3	
4	100E/v/5/cu	Unknown	01/23/95 12:11 PM	4	
5	1000E/v/5/cu	Unknown	01/23/95 12:25 PM	5	
6	old100E/cu	Unknown	01/23/95 12:39 PM	6	

C. 0.25 M CuSO₄
 (100ul/5ml)/10ml vacutainer
 10ul/5ml "
 100 " "
 1000 " "
 100 " "

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1/23/95

A sample of Blood Serum in a Vacutainer
was taken & actually and Boiled for 10 mins.

The results are not pretty. Centrifuge @ 5 for

will try a 1:10 dilution of serum

take 200 μ l serum / dilute to 2 ml

Boil 10 min Centrifuge 5 min @ 5 filter gelman 0.2

1 cloudy. Add 1 ml to 1 ml CuSO_4 $\rightarrow$ gets cloudy
5 min works !!
re-centrifuge @ 7 for

Inject this

2000 ppm $\Rightarrow$ 1:10 $\Rightarrow$ 200 ppm
~~5~~ EDTA

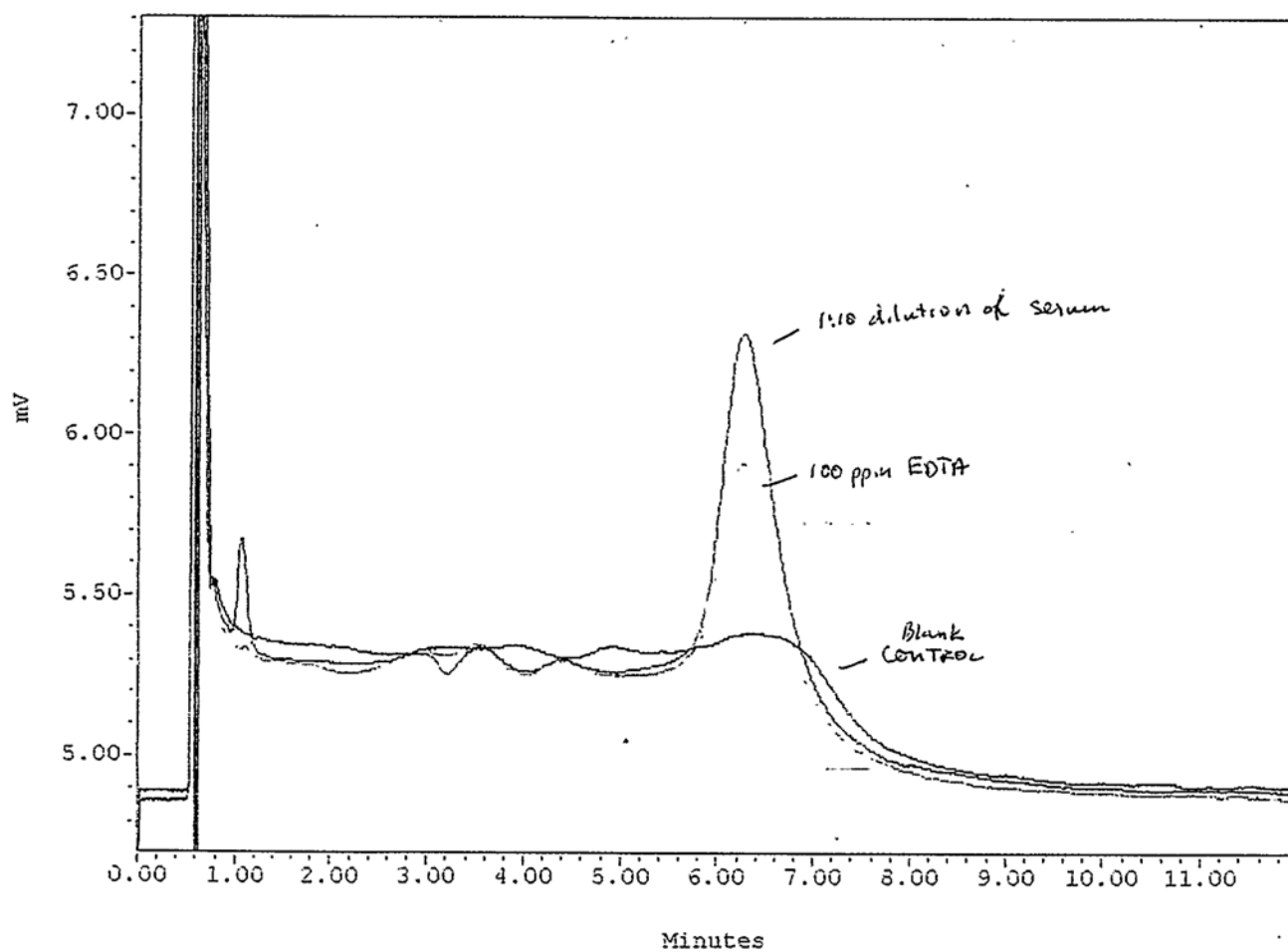
2 μ g

20 μ l

1 μ g

10 μ l

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SampleName: serum200ul/2ml Vial: 7 Inj: 1 Ch: SIM Ch2 Type: Unknown

Files:

Channel Table

#	SampleName	SampleType	Date Acquired	Vial
1	serum200ul/2ml	Unknown	01/23/95 05:31 PM	7
2	100ppmedta/cu	Unknown	01/23/95 05:46 PM	8
3	cntrl	Unknown	01/23/95 11:28 AM	1

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essed & Understood by me.

Date

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Date

FBI(24-cv-1564)-3117

1/24/95

Examination of literature suggests

an alternative w/ possibly better sensitivity
is Fe(III) Chloride

~~ref~~ prepared as follows 175 mg Fe^{III} chloride · 6H₂O
added to 30ml Acetic Acid (glacial)
made up to 100ml volume

Samples were prepared:

200 μl in 2ml of H₂O — control

200 μl in 2ml of 100ppm EDTA — standard

Sample prepared

2ml serum 1:10 (boiled) add

800 μl FeCl₃

⇒ proteins did not
precipitate

will prepare 0.05 M

$$\text{Fe}_2(\text{SO}_4)_3 \quad 17.98 \text{ g/mol} \times 0.05 \frac{\text{mol}}{\text{L}} \times 0.1 \text{ L} = 2.089 \text{ g}$$

and 0.05 M

K₂SO₄

$$174.27 \text{ g/mol} \times 0.05 \frac{\text{mol}}{\text{L}} \times 0.1 \text{ L} = 0.871 \text{ g}$$

FeCl₃

$$270.32 \times 0.05 \times 0.1 = 1.352 \text{ g}$$

Prepared 2 samples

A) $\text{Fe}_2(\text{SO}_4)_3$ solution + H_2O 1:1 control

B) $\text{Fe}_2(\text{SO}_4)_3$ solution + 100 ppm EDTA sample

Also prepared Blood (my own) from a vacutainer
(same as before) 6457 (filled to ~ 10 ml)

took 2 samples of 200 μl each diluted to 2 ml

also made spots 3-10 μl 3-5 μl - 3-2 μl

These were centrifuged at 7 for 5 min $\Rightarrow$ Not much clean up
1 ml removed and mixed w/ 1 ml CuSO_4 0.05 M
re-centrifuge 5 min @ 7 $\Rightarrow$ Success! clear w/
brown precipitate at bottom

Prepared 3 more samples

C) FeCl_3 solution + H_2O 1:1

D) FeCl_3 solution + 100 ppm EDTA 1:1

E) Blood sample 1:10 / CuSO_4 prepared above

100 spots were prepared as follows:

Spots of blood from a vacutainer 6457 (dried several hours)

2, 5, 10 μl spots in 1 cm^2 plus a blank were cut from
brown paper towel. These were placed in test tubes w/
75 μl CuSO_4 + 75 μl H_2O and sonicated 1 hr

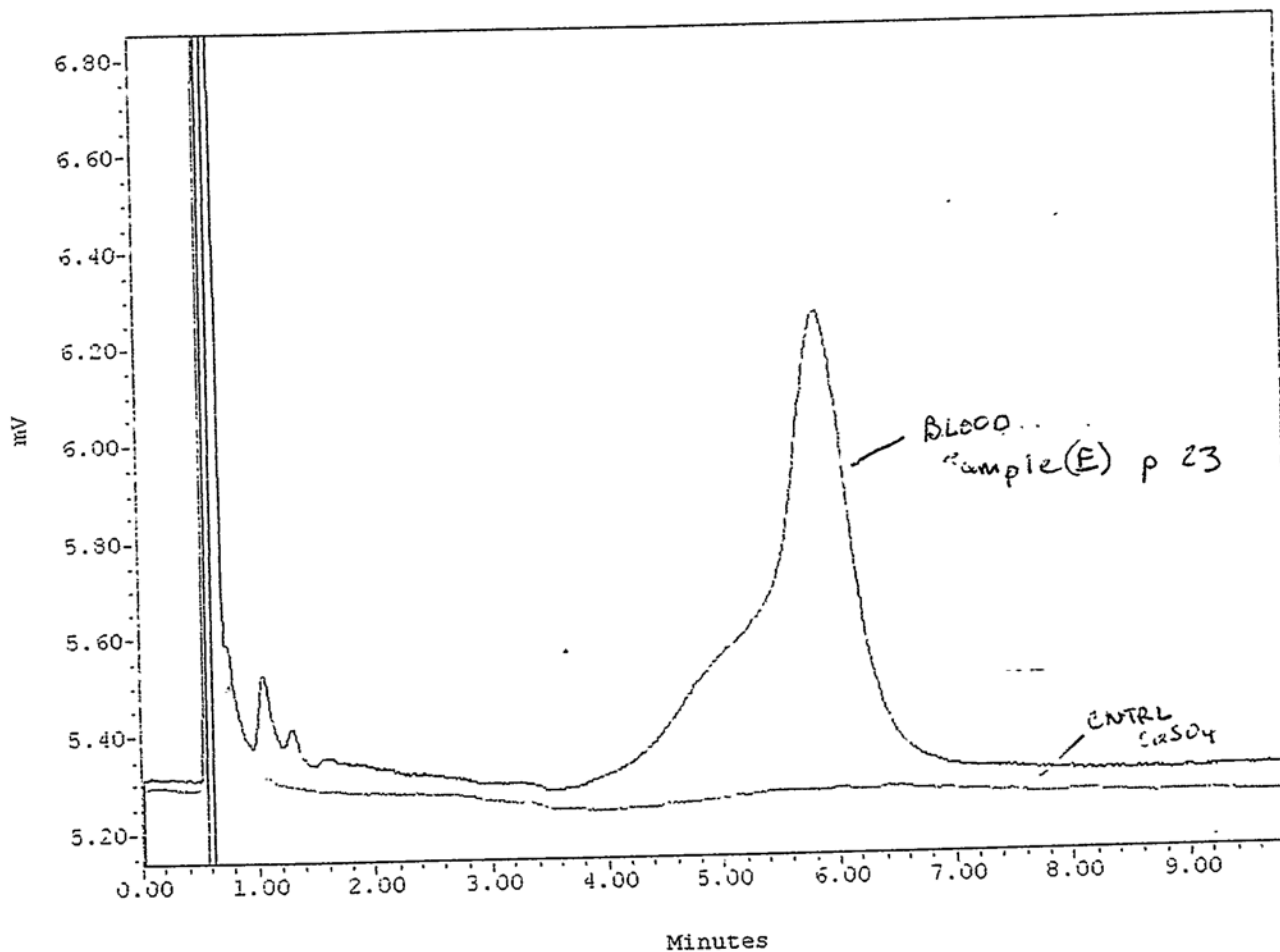
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Note: An attempt was made to precipitate the boxed blood
w/ K_2SO_4 1:1 / 2:1 it failed
0.05m



Channel Table

#	SampleName	SampleType	Date Acquired	Vial
1	Blood1/10/Cuso	Unknown	01/24/95 04:26 PM	15
2	ccntrlCuSO4	Unknown	01/24/95 04:02 PM	1

Results w/ whole blood & $CuSO_4$ show an
extra or fronting peak. This may also be column
problem. it doesn't appear in blank

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FBI(24-cv-1564)-3120

Date

Date

Invented by

Witnessed & understood by me.

Results w/ Fe Show large interference peak at 1:1 dilution which was thought to be necessary to precipitate protein.

Project Name: cations_md

Sample Name: 100E/Fe³⁺ 100 ppm EDTA
Channel: SIM Ch2 0.05M Fe SO₄ 1:1

Sample Type: Unknown

Volume: 10.00

Date Acquired: 01/24/95 03:32 PM

Run Time: 10.0 min

Acq Meth Set: EDTA_METH_SET

Date Processed: 01/24/95 03:42 PM

Processing Method: EDTA_proc

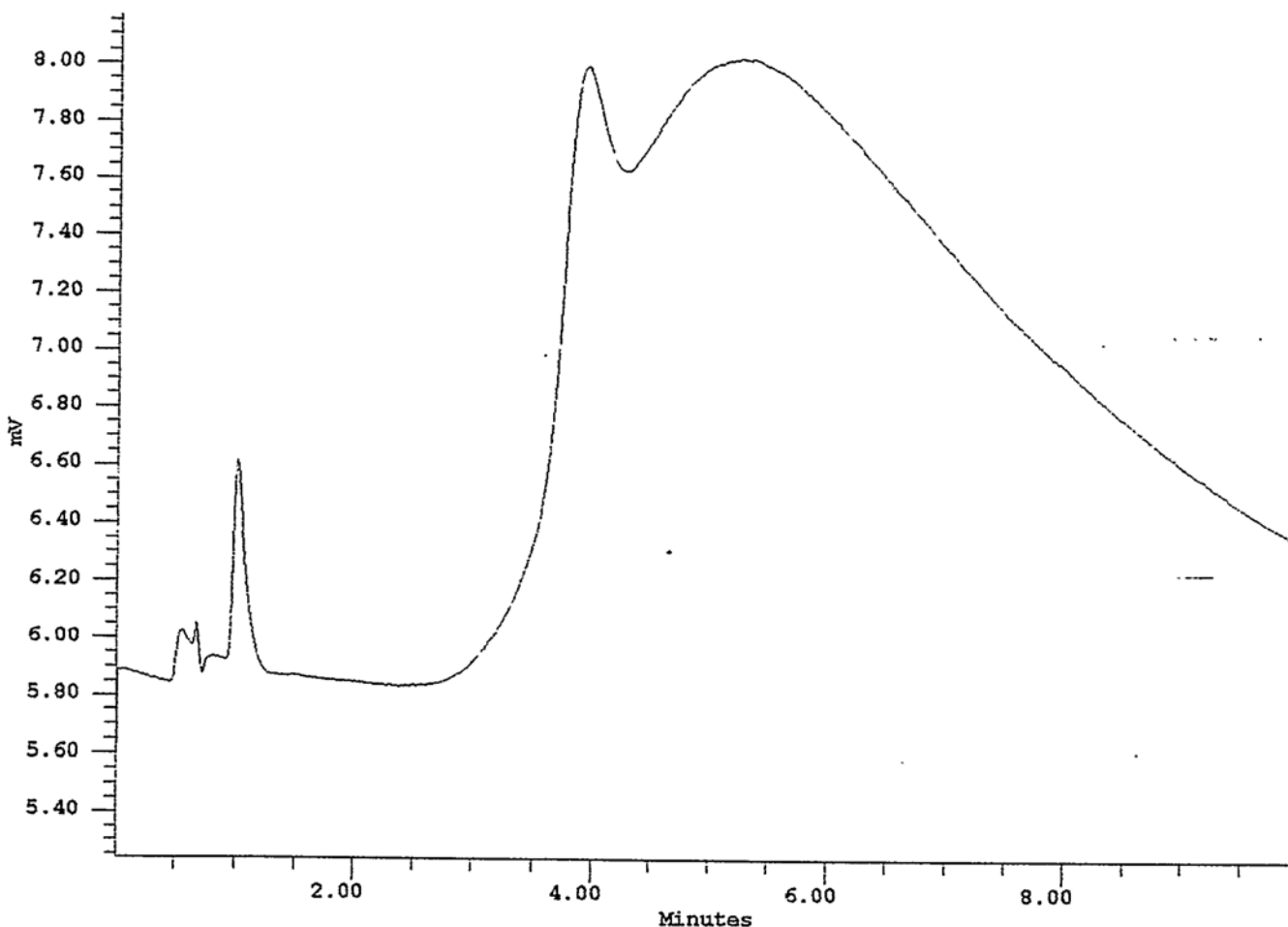


Table 'Peak Results' contains no data.

To Page No. _____

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Date

Invented by

Date

Recorded by

FBI(24-cv-1564)-3121

Project Name: cations_md
Sample Name: ~~control~~ 0.05M FeSO₄ Water 1:1
Channel: SIM Ch2
Date Acquired: 01/24/95 03:20 PM
Acq Meth Set: EDTA_METH_SET
Processing Method: EDTA_proc
Sample Type: Unknown
Volume: 10.00
Run Time: 10.0 min
Date Processed: 01/24/95 03:30 PM

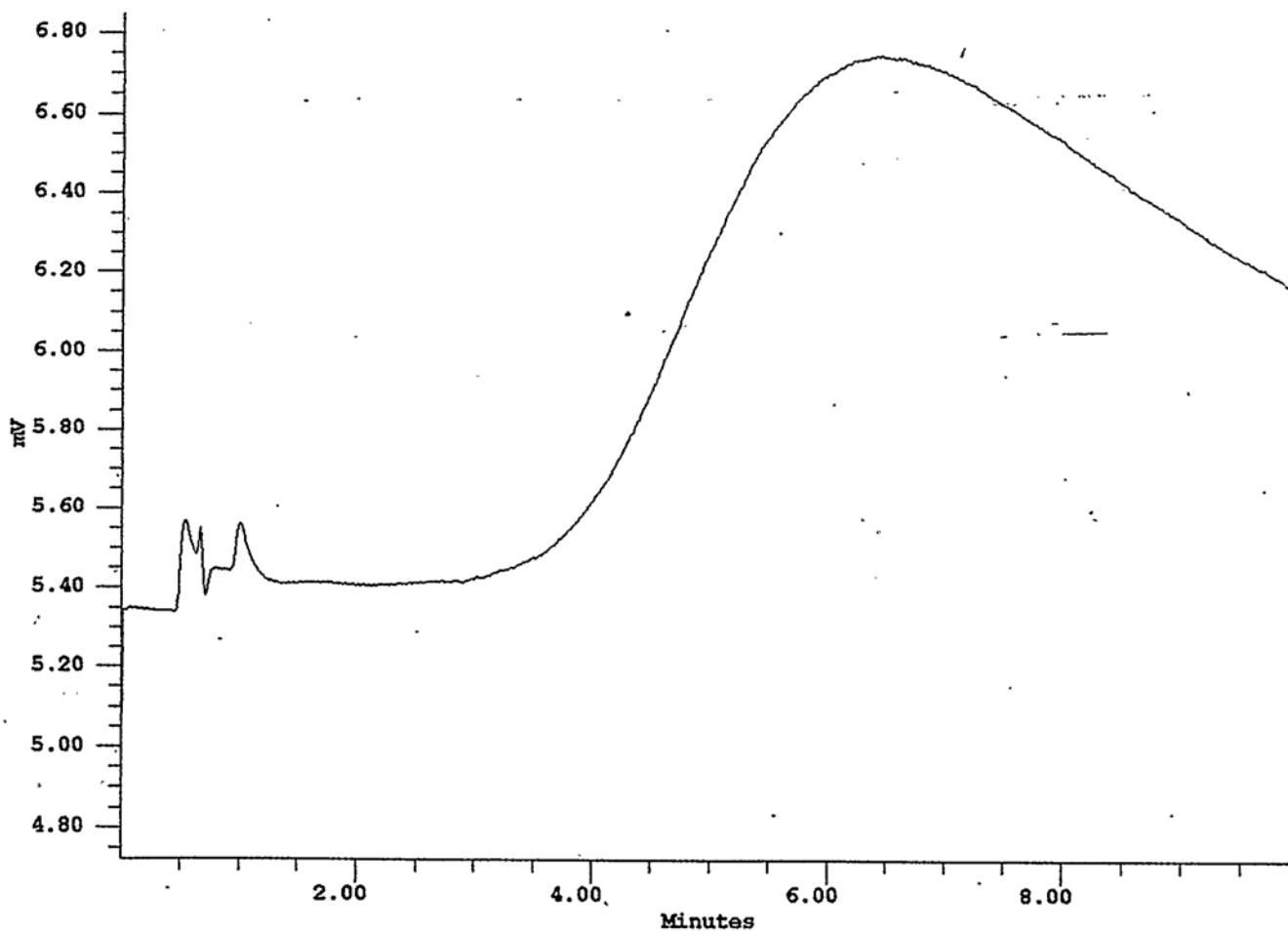


Table 'Peak Results' contains no data.

Project Name: cations_md Sample Type: Unknown
Sample Name: ~~central~~ 0.05 M FeSO₄ Volume: 10.00
Channel: SIM Ch2 water 1:1
Date Acquired: 01/24/95 02:27 PM Run Time: 10.0 min
Date Processed: 01/24/95 02:37 PM
Acq Meth Set: EDTA_METH_SET
Processing Method: EDTA_proc

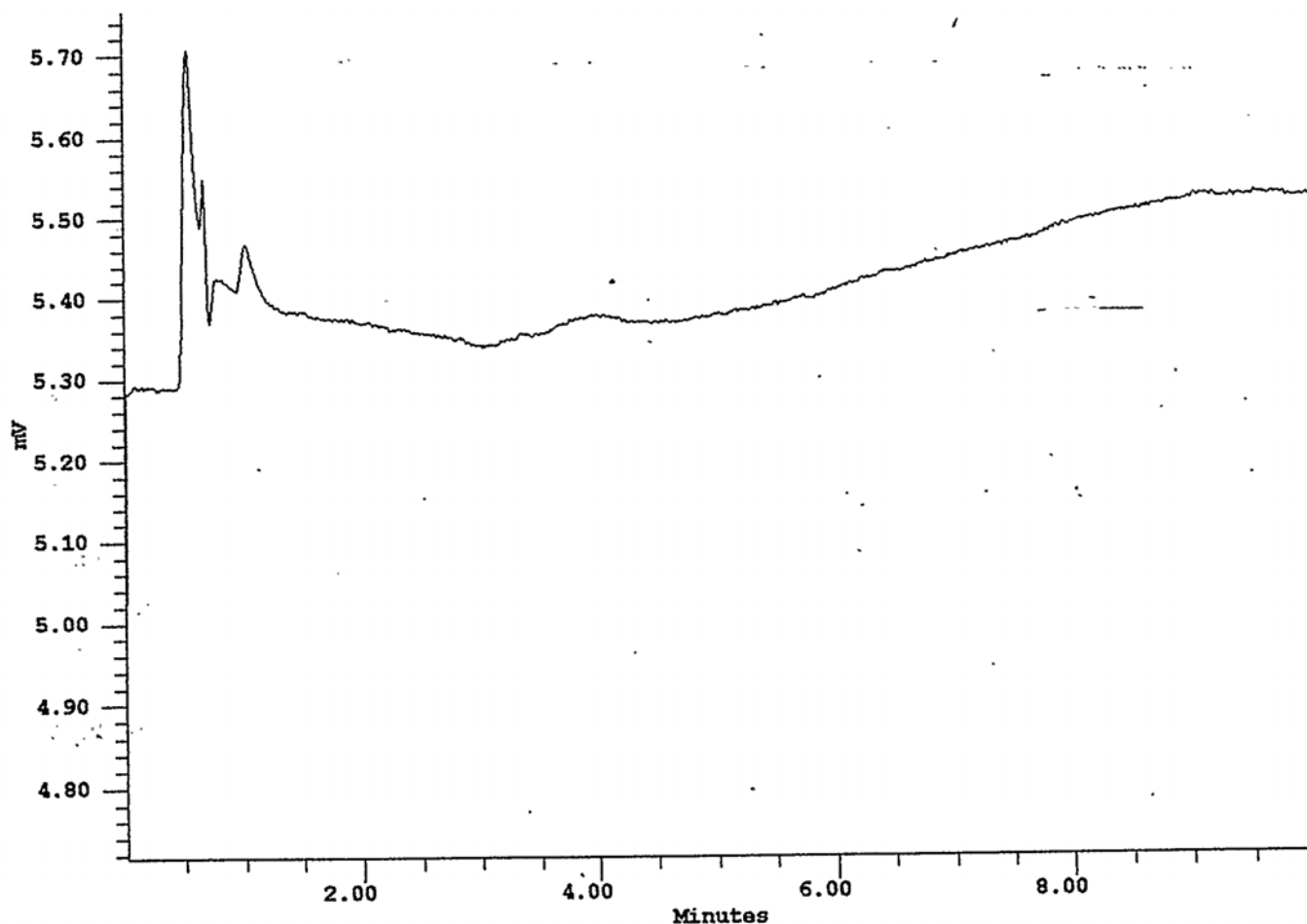


Table 'Peak Results' contains no data.

Project Name: cations_md Sample Type: Unknown
Sample Name: 100E/FeSO4 100 ppm EDTA 0.05 M Fe(EDTA)₃ Volume: 10.00
Channel: SIM Ch2 1:1 Run Time: 10.0 min
Date Acquired: 01/24/95 02:39 PM Date Processed: 01/24/95 02:49 PM
Acq Meth Set: EDTA_METH_SET
Processing Method: EDTA_proc

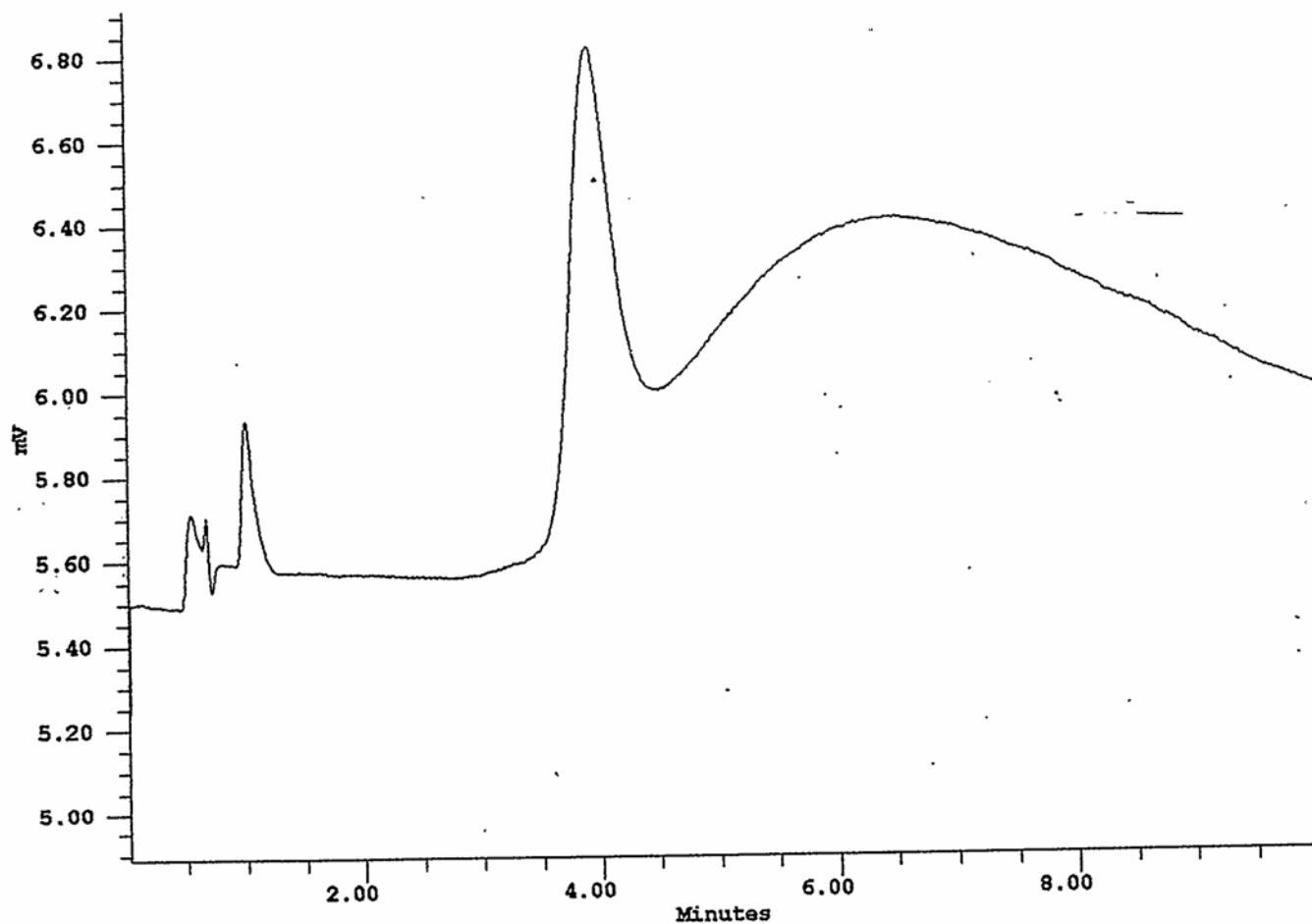


Table 'Peak Results' contains no data.

Project Name: cations_md Sample Type: Unknown
Sample Name: ccntrlFeCl Volume: 25.00
Channel: SIM Ch2
Date Acquired: 01/24/95 04:44 PM Run Time: 10.0 min
Date Processed: 01/24/95 04:54 PM
Acq Meth Set: EDTA_METH_SET
Processing Method: EDTA_proc

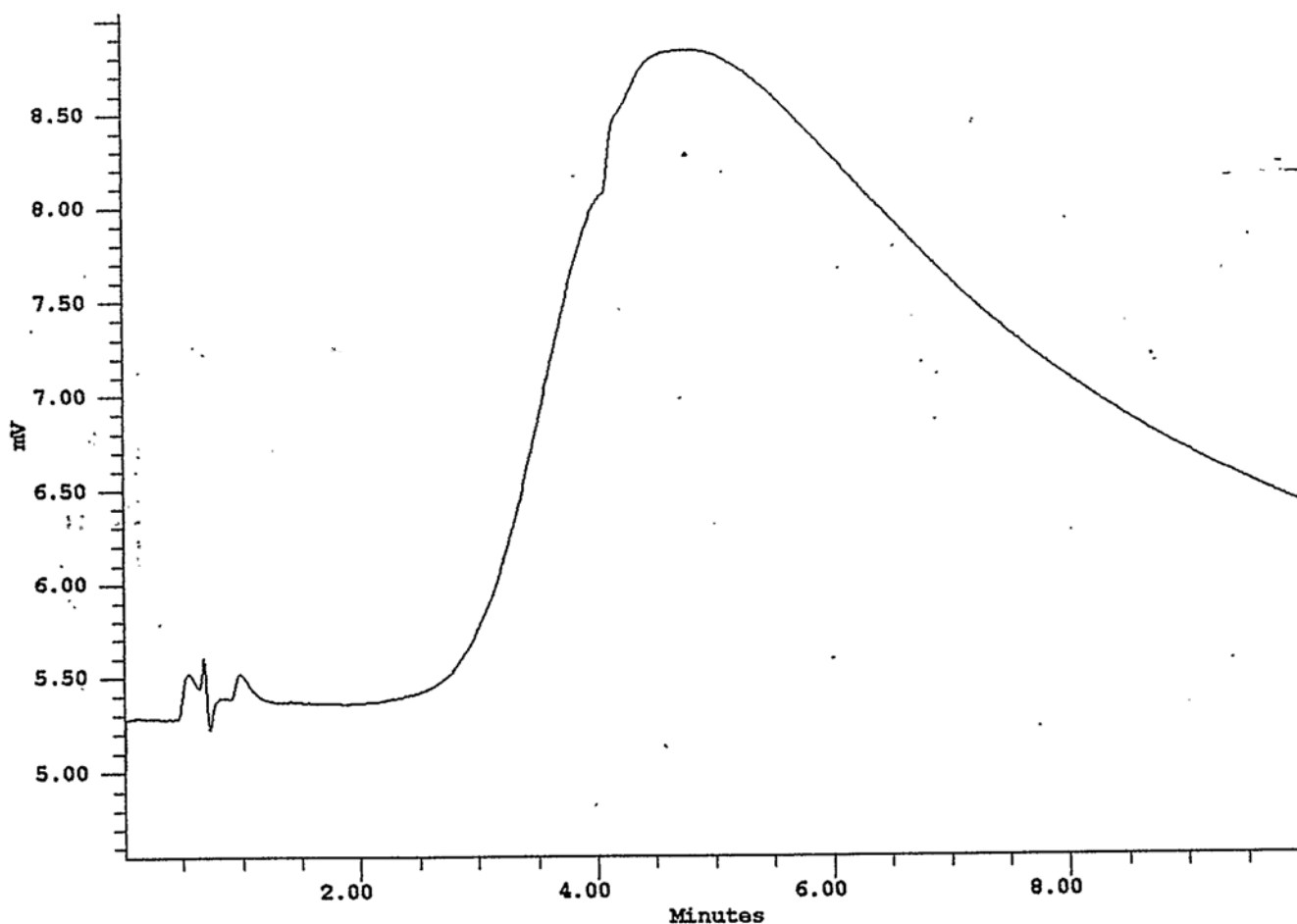
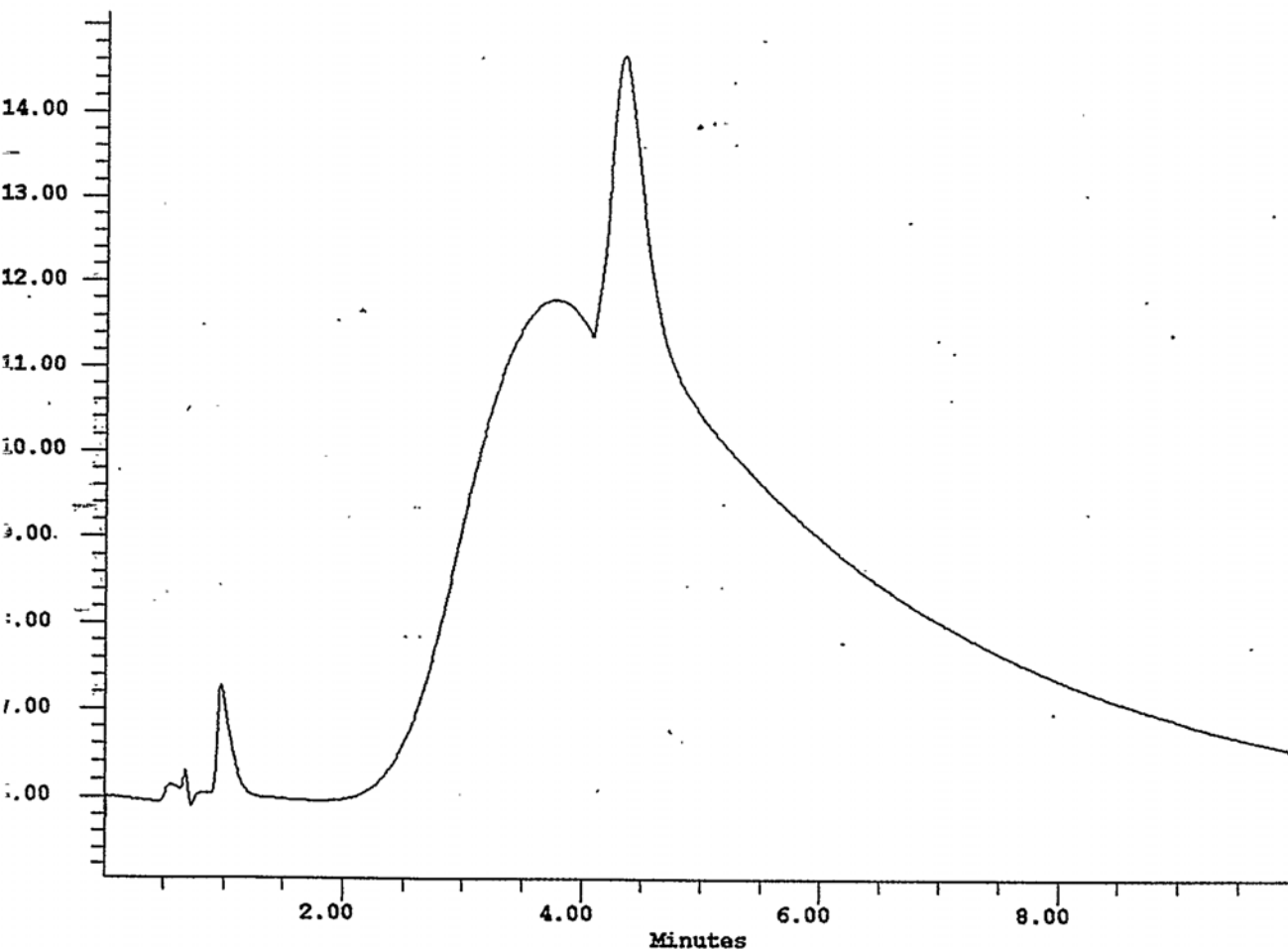
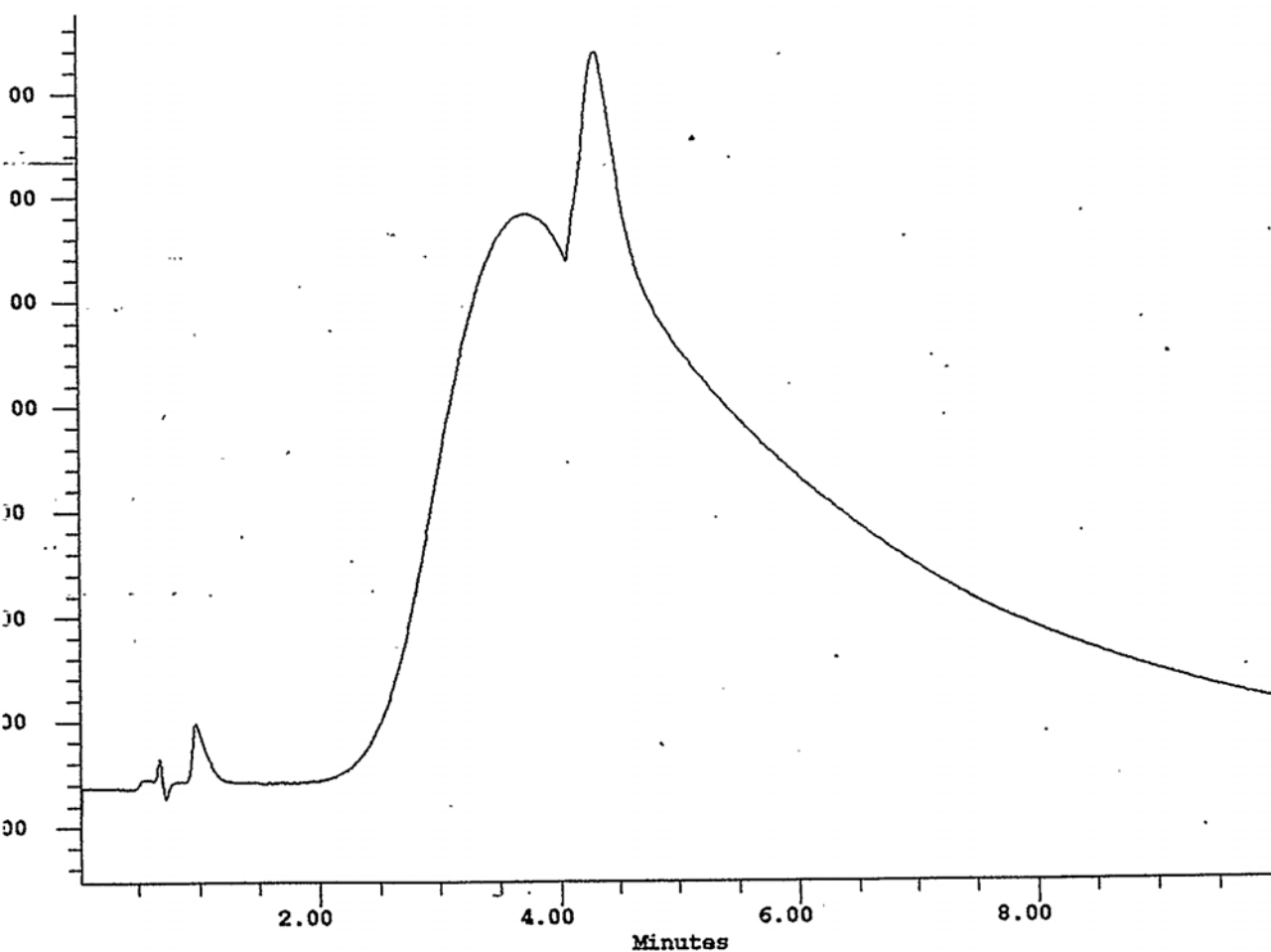


Table 'Peak Results' contains no data.

Project Name: cations.m Sample Type: Unknown
Sample Name: FeCl/EDTA100 Volume: 25.00
Channel: SIM Ch2
Date Acquired: 01/24/95 04:56 PM Run Time: 10.0 min
Acq Meth Set: EDTA_METH_SET Date Processed: 01/24/95 05:06 PM
Processing Method: EDTA_proc



Project Name: cations_md Sample Type: Unknown
Sample Name: FeCl/EDTA300nm Volume: 25.00
Channel: SIM Ch2 Run Time: 10.0 min
Date Acquired: 01/24/95 05:13 PM Date Processed: 01/24/95 05:24 PM
Acq Meth Set: EDTA_METH_SET
Processing Method: EDTA_proc



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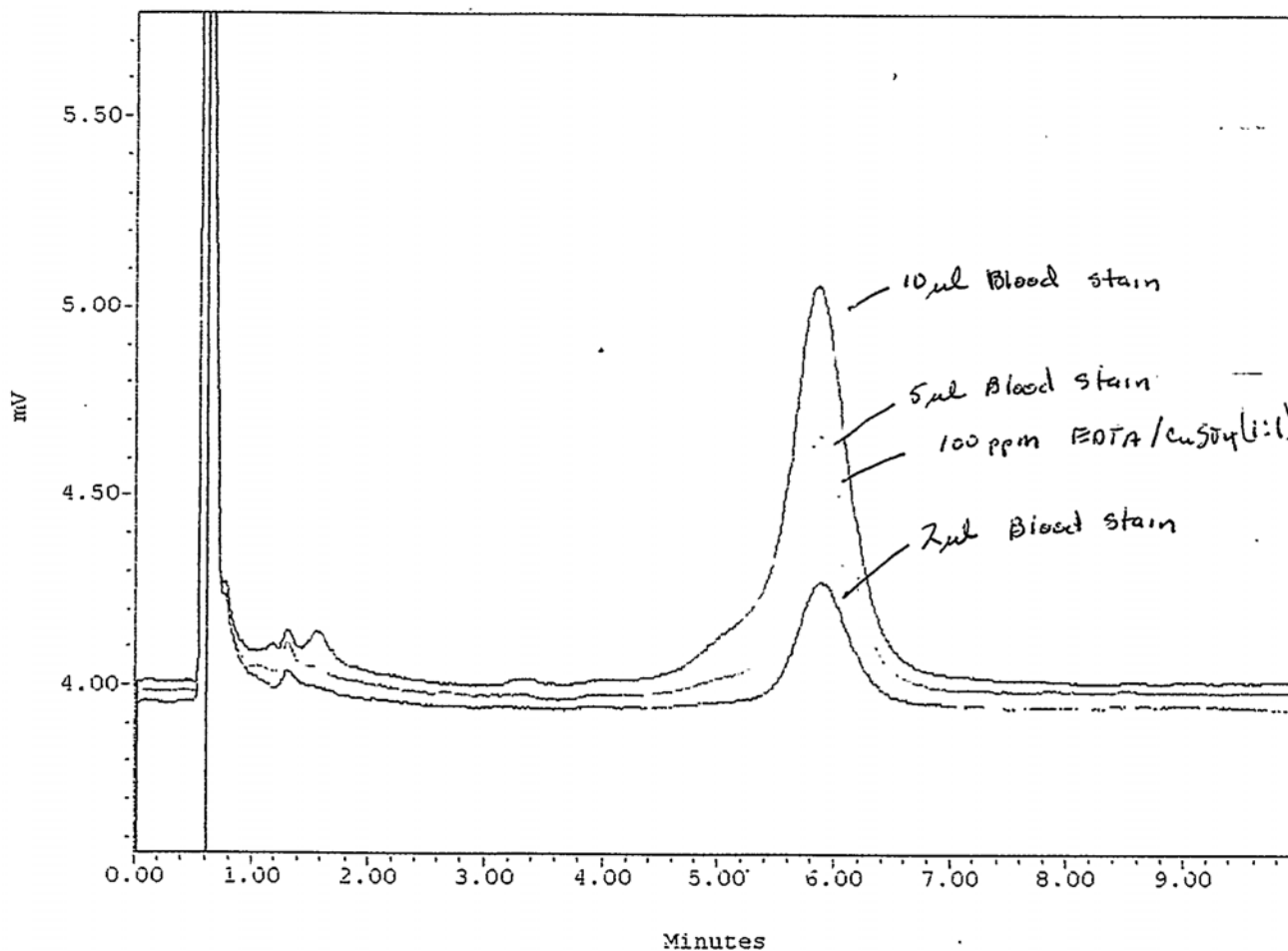
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Experiments w/ Blood stains on brown paper
towel:

(See p 23) Spots of blood sat overnight in test tubes
after sonification, 40-75 μ l solution removed from
each tube and was placed in centrifuge tubes
Centrifuged on high for 5 min. and placed in microvials



Channel Table				
#	SampleName	SampleType	Date Acquired	Vial
1	10ulblood	Unknown	01/25/95 11:17 AM	16
2	5ulblood	Unknown	01/25/95 11:43 AM	17
3	2ulbloodst	Unknown	01/25/95 12:32 PM	19
4	100ppmedta/cu	Unknown	01/25/95 12:51 PM	20

To Page No. _____

Witnessed & Understood by me. _____

Date _____

Invented by _____

Date _____

FBI(24-cv-1564)-3128

No. _____

Notes on Expected Concentrations: calculated considering only the added H_2O not the $[CuSO_4]$

Expect 2000 ppm in 10 ml of Blood

$$2000 \text{ ppm} = \frac{2000 \text{ mg}}{2} \times 10 \times 10^{-6} \text{ l} = \frac{0.02 \text{ mg}}{150 \times 10^{-6} \text{ l}} = 133 \text{ ppm}$$

266.7 ppm
[75 ul H_2O
[75 ul $CuSO_4$]

$$\frac{2000 \text{ mg}}{2} \times 5 \times 10^{-6} \text{ l} = \frac{0.01 \text{ mg}}{75 \text{ ul } H_2O} = 133 \text{ ppm}$$

[75 ul $CuSO_4$]

$$2 \times 10^{-6} \text{ l} = 0.004 = 53.3 \text{ ppm}$$

Note that the actual concentrations are $\frac{1}{2}$ these
ie. 133, 66.5, 26.7 ppm and the 100 ppm STD
when diluted dil w/ $CuSO_4$ is 50 ppm.

also that we are diluting w/ 150 ul solution and injecting
2. dilutions could be less and injections could be doubled to raise
sensitivity.
Quantitative Results

	AREA	RT	CONC.
10 ul	41594	5.850	133 ppm
5 ul	21566	5.867	66.5 ppm
2 ul	9948	5.883	26.7 ppm
STD 100 ppm $CuSO_4$	22442	5.850	50 ppm

Based on this DATA with $F = \frac{50 \text{ ppm}}{22442 \text{ AREA}} = 2.228 \times 10^{-3} \text{ ppm/AREA}$

*
AND Recovery = $2.228 \times 10^{-3} \times \frac{41594}{133} = 72.6$ or 69
 $\times \frac{21566}{66.5} = 48.1$ or 72
 $\times \frac{9948}{26.7} = 22.2$ or 83

Assuming 10 ml of Blood (A BTD ASSUMPTION) since (H) wasn't
measured. total amount of Blood was $10 \pm 1 \text{ ml}$.

To Page No. _____

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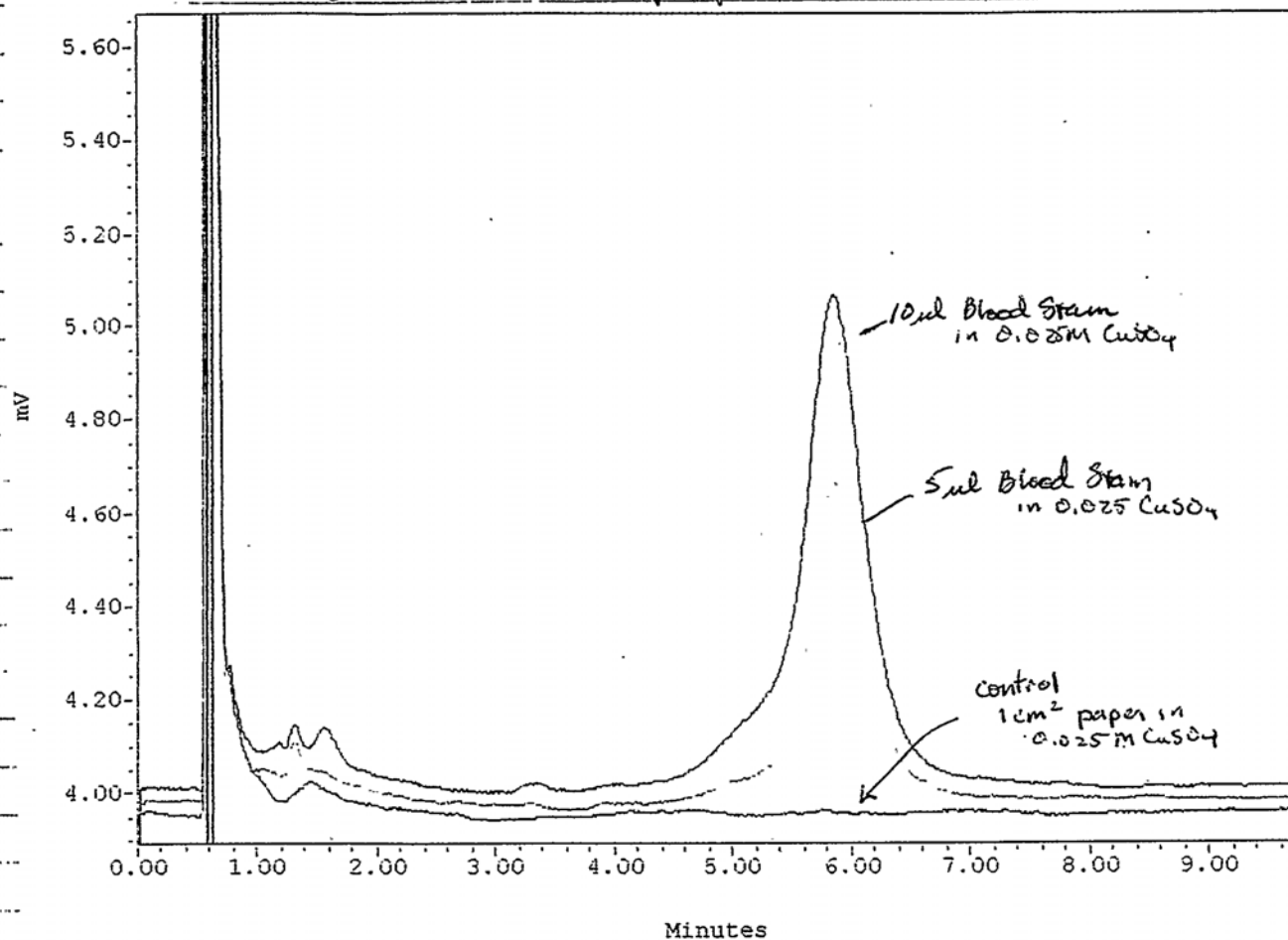
Date

Invented by

Date

Recorded by

FBI(24-cv-1564)-3129

Blood stain vs paper control

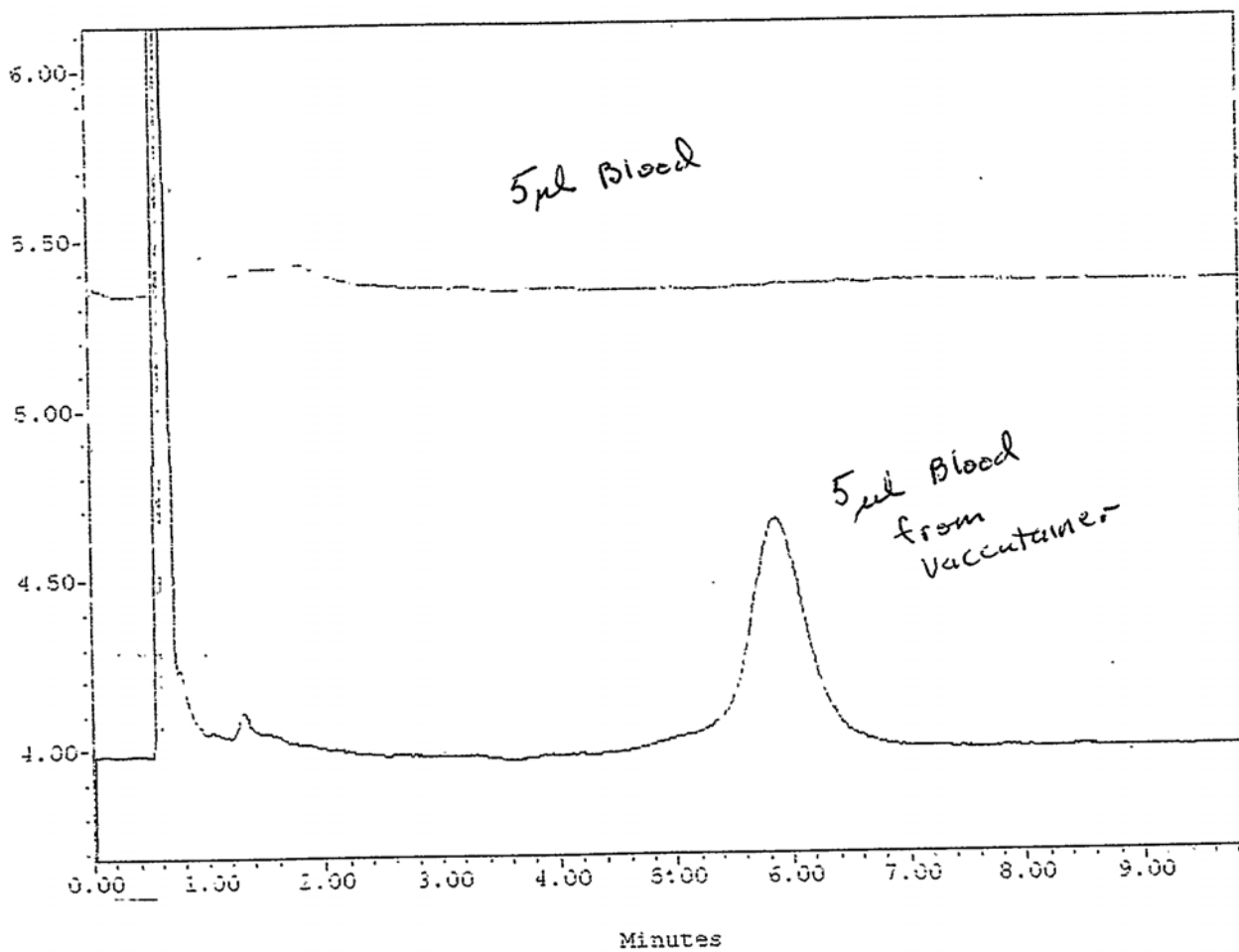
1/26/94

Blood spots were prepared on paper towels by picking myself and placing 2 and 5 ul samples measured w/ micropipettor onto brown paper towels.

These spots were prepared in the morning, sonicated for 1hr after the addition of 150ul of 0.025M CuSO_4 and in the afternoon in 4hrs later the samples were removed centrifuged on high and run on the IC.

ge No. _____

Blood spots in
150 μ l 0.025 M CuSO₄



Channel Table

#	SampleName	SampleType	Date Acquired	Vial
1	5ulblood	Unknown	01/25/95 11:43 AM	17
2	5ulbloodnoEDTA	Unknown	01/25/95 05:29 PM	21

To Page No. _____

ed & Understood by me,

Date

Invented by

Date

Recorded by

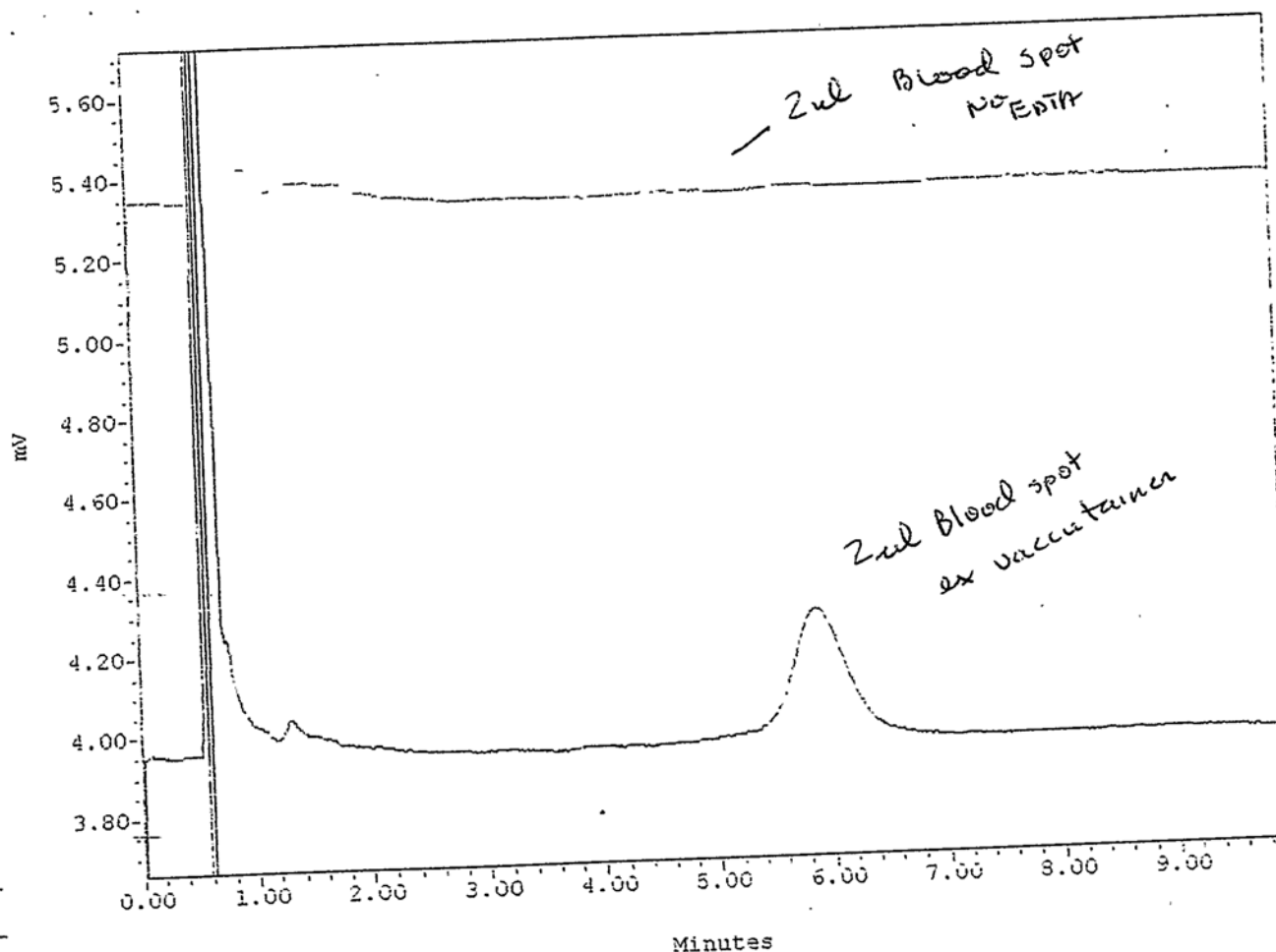
FBI(24-cv-1564)-3131

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Book No. _____

TITLE _____

Page No. _____

Blood spots in 150 μ l 0.025 M CuSO₄

Channel Table

#	SampleName	SampleType	Date Acquired	Vial
1	2ulbloodst	Unknown	01/25/95 12:32 PM	19
2	2ulbloodnoedta	Unknown	01/25/95 05:45 PM	22

To Page No. _____

Page No. _____

31/95

Multiple injections of 50ppm EDTA on
0.025M CuSO₄

inj	RT	AREA	comments
11	5.808	21079	
8	6.133	20316	
1	6.658	35412	Poor peak shape
2	6.475	30974	"
3	6.433	28106	"
4	6.400	25087	
5	6.342	22118	
6	6.283	22048	
7	6.208	20441	
8	6.133	20316	
9	6.050	20920	
10	5.983	21722	
11	5.892	21194	

To Page No. _____

Issued & Understood by me,

Date

Invented by

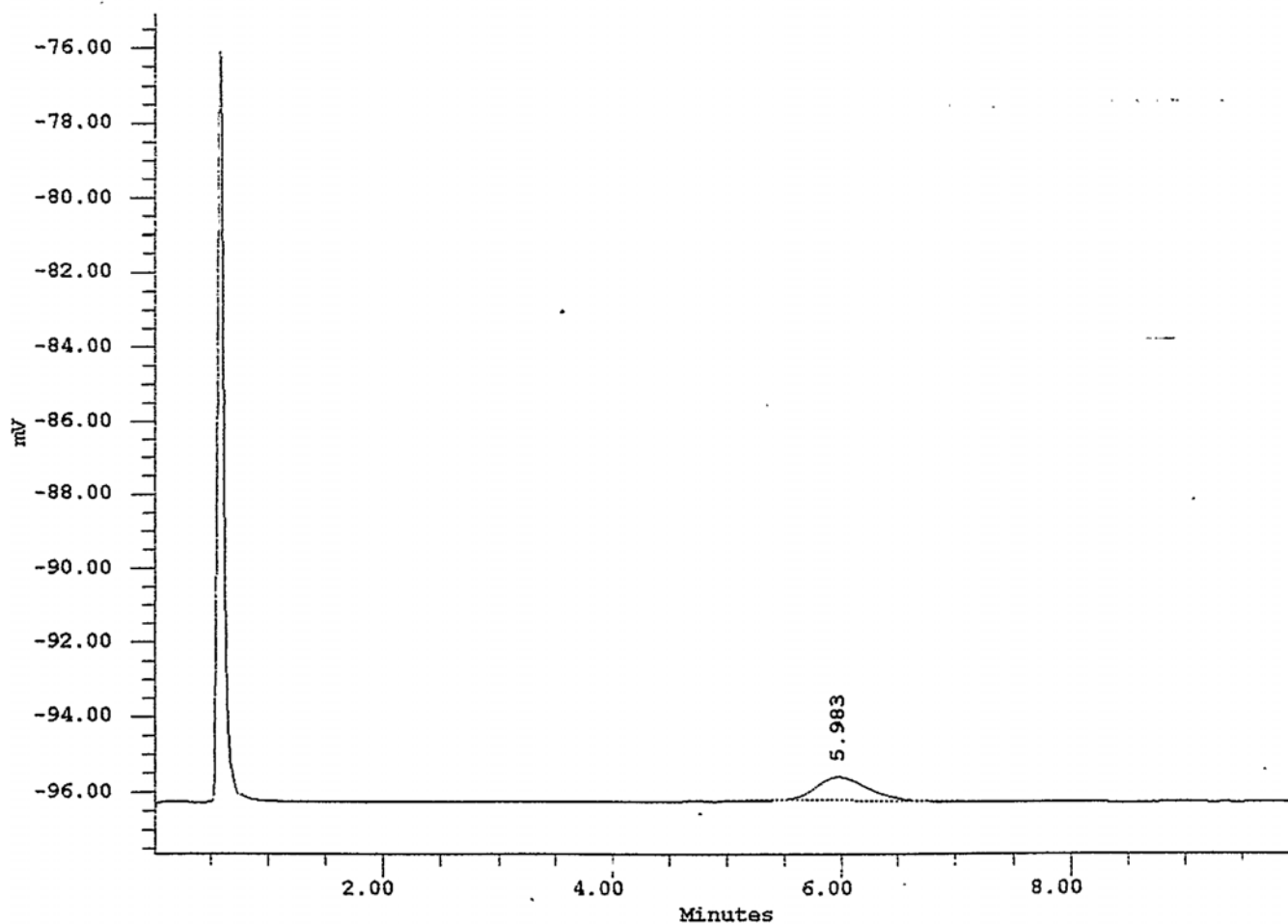
Date

Recorded by

FBI(24-cv-1564)-3133

For Sample: repeat 50 edta Vial: 8 Inj: 10 Chan: SIM Ch2 Date Processed 01/31/95 12:42 PM

Project Name:	cations_md	Sample Type:	Unknown
Sample Name:	repeat 50 edta	Volume:	25.00
Channel:	SIM Ch2	Run Time:	10.0 min
Date Acquired:	01/31/95 12:00 PM	Date Processed:	01/31/95 12:42 PM
Acq Meth Set:	EDTA_METH_SET		
Processing Method:	EDTA_proc		

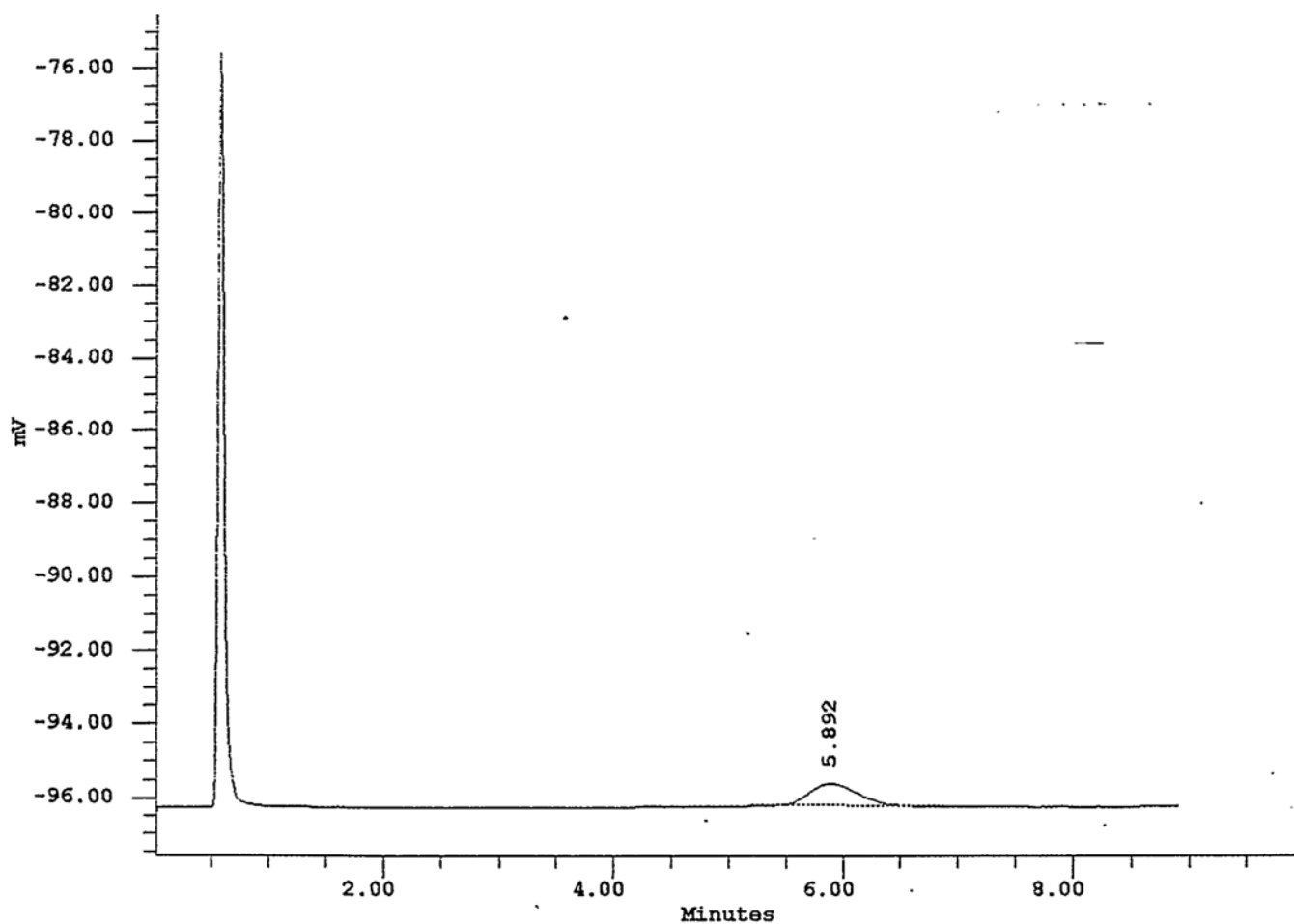


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.983		21722	645	100.00	100.00
2	CuEDTA	6.475					

For Sample: repeat 50 edta Vial: 3 Inj: 11 Chan: SIM Ch2 Date Processed 01/31/95 12:42 PM

Project Name:	cations_md	Sample Type:	Unknown
Sample Name:	repeat 50 edta	Volume:	25.00
Channel:	SIM Ch2	Run Time:	10.0 min
Date Acquired:	01/31/95 12:12 PM	Date Processed:	01/31/95 12:42 PM
Acq Meth Set:	EDTA_METH_SET		
Processing Method:	EDTA_proc		



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.892		21194	653	100.00	100.00
2	CuEDTA	6.475					

For Sample: repeat 50 edta Vial: 8 Inj: 10 Chan: SIM Ch2 Date Processed 01/31/95 12:11 PM

Project Name: cations_md
 Sample Name: repeat 50 edta
 Channel: SIM Ch2
 Date Acquired: 01/31/95 12:00 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 10.0 min
 Date Processed: 01/31/95 12:11 PM

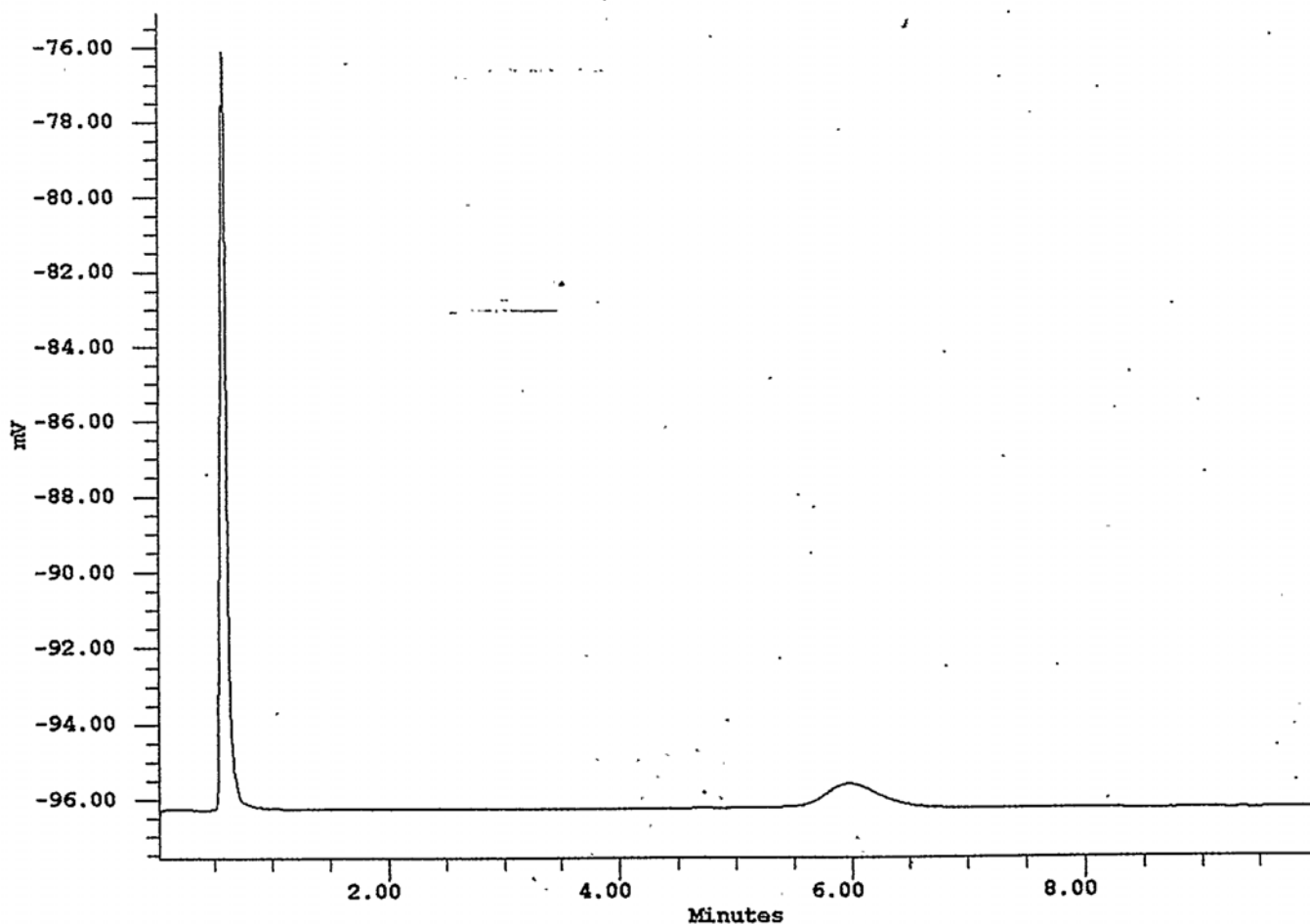
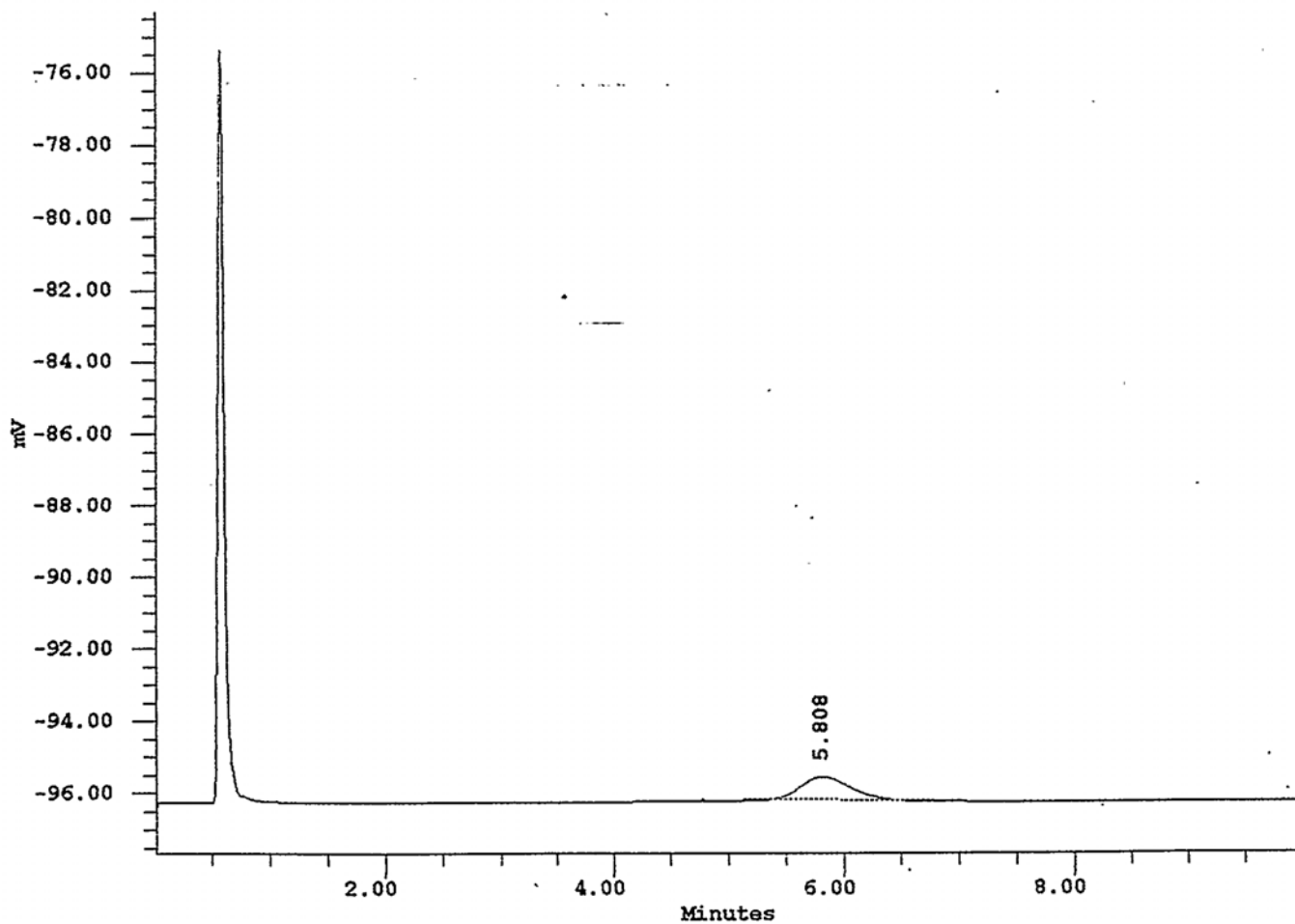


Table 'Peak Results' contains no data.

For Sample: repeat 50 edta Vial: 8 Inj: 11 Chan: SIM Ch2 Date Processed 01/31/95 12:34 PM

Project Name: cations_md
 Sample Name: repeat 50 edta
 Channel: SIM Ch2
 Date Acquired: 01/31/95 12:24 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 10.0 min
 Date Processed: 01/31/95 12:34 PM



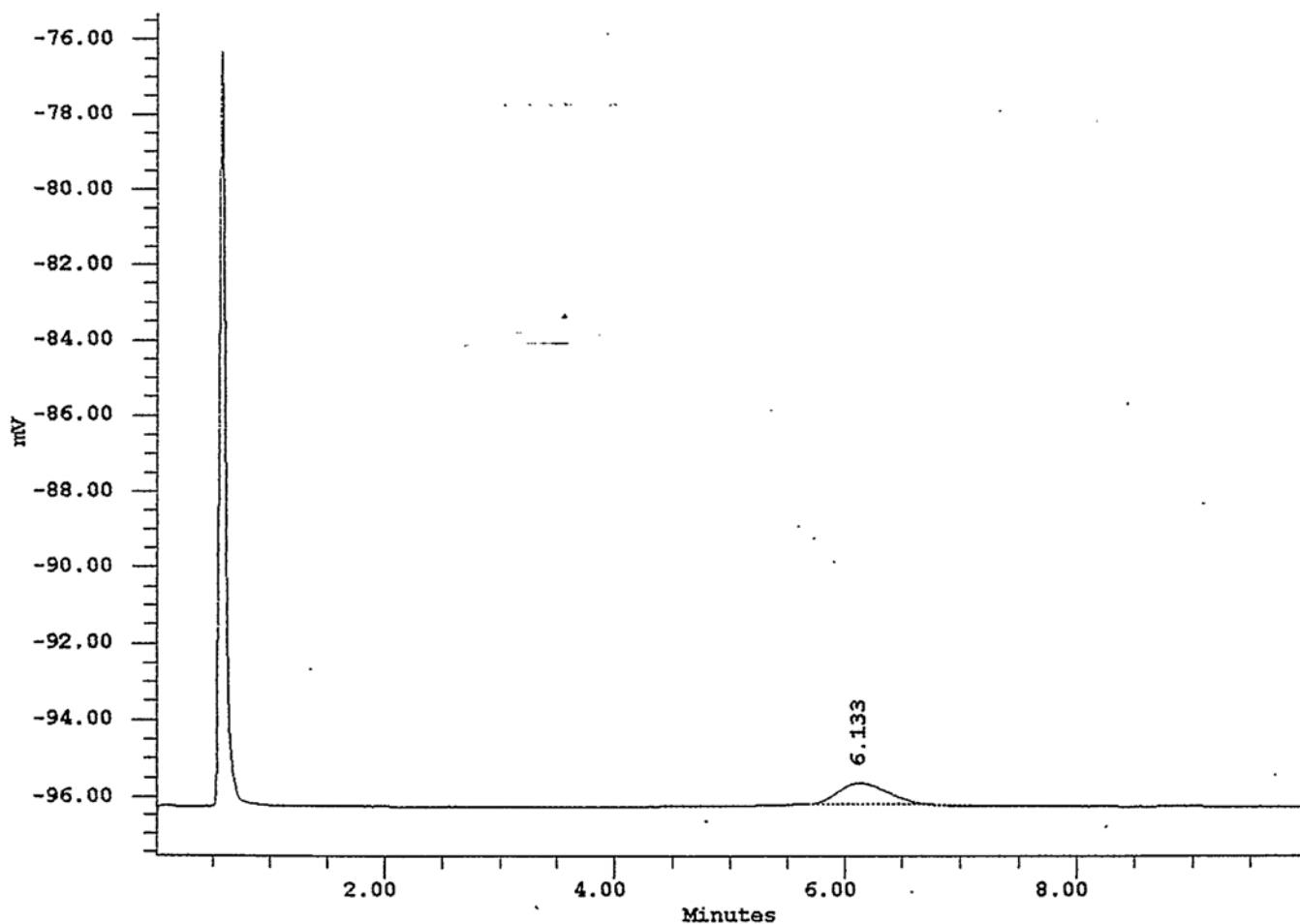
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.808		21079	660	100.00	100.00
2	CuEDTA	6.475					

For Sample: repeat 50 edta Vial: 8 Inj: 8 Chan: SIM Ch2 Date Processed 01/31/95 12:37 PM

Project Name: cations_md
Sample Name: repeat 50 edta
Channel: SIM Ch2
Date Acquired: 01/31/95 11:36 AM
Acq Meth Set: EDTA_METH_SET
Processing Method: EDTA_proc

Sample Type: Unknown
Volume: 25.00
Run Time: 10.0 min
Date Processed: 01/31/95 12:37 PM

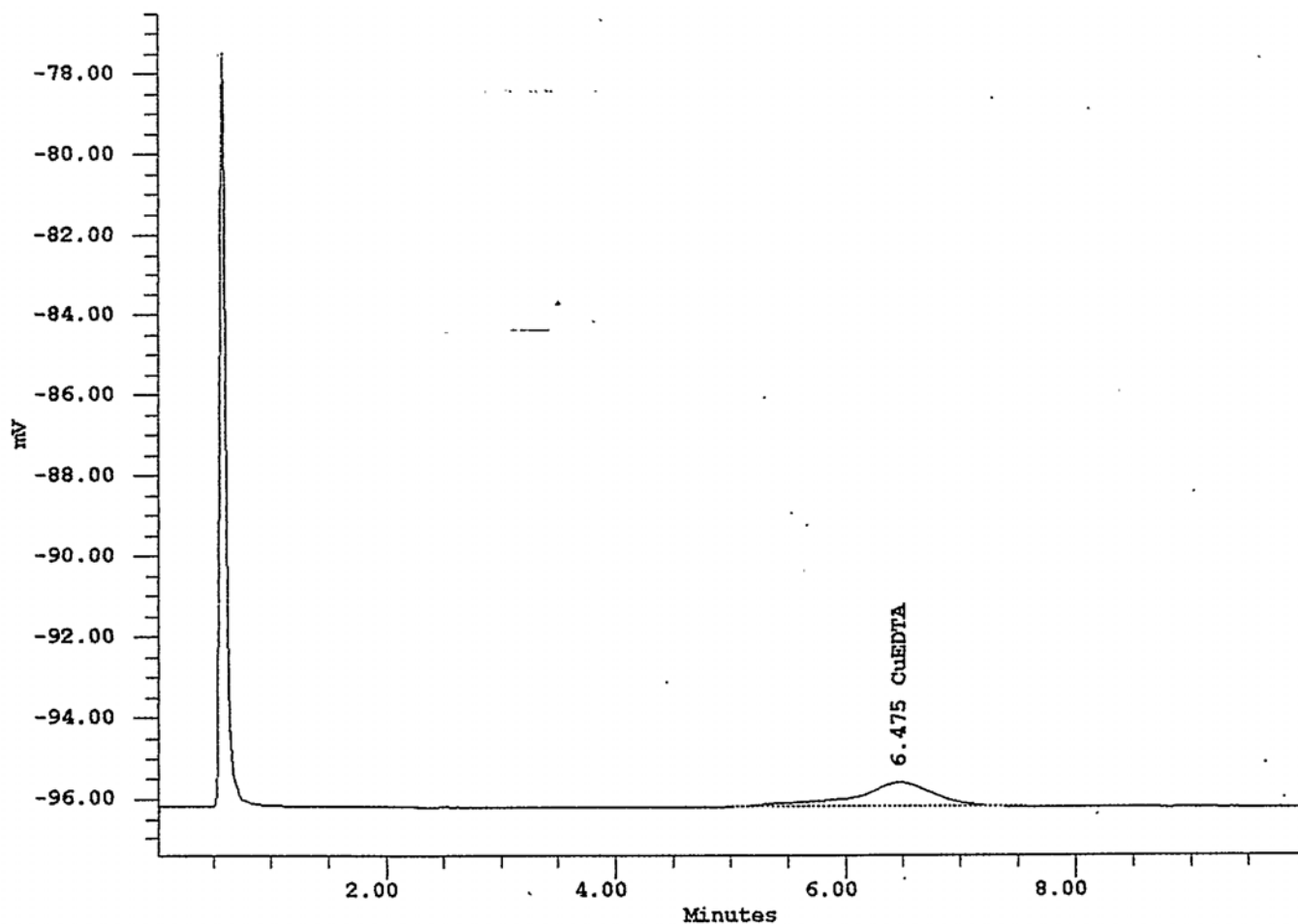
*Peak Results*

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		6.133		20316	608	100.00	100.00
2	CuEDTA	6.475					

For Sample: repeat 50 edta Vial: 8 Inj: 2 Chan: SIM Ch2 Date Processed 01/31/95 12:38 PM

Project Name: cations_md
 Sample Name: repeat 50 edta
 Channel: SIM Ch2
 Date Acquired: 01/31/95 10:24 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 10.0 min
 Date Processed: 01/31/95 12:38 PM



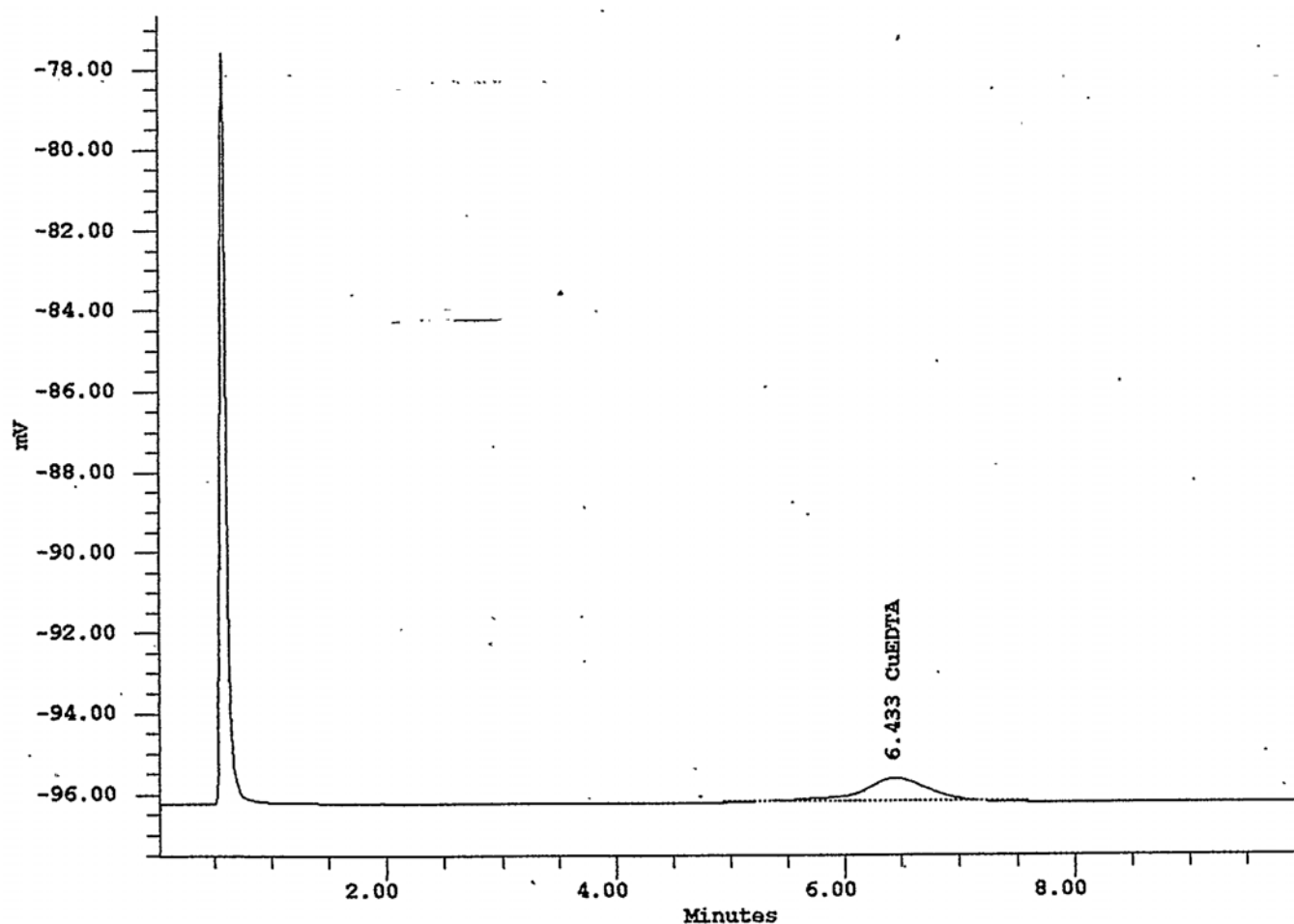
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475		30974	609	100.00	100.00

For Sample: repeat 50 edta Vial: 8 Inj: 3 Chan: SIM Ch2 Date Processed 01/31/95 12:38 PM

Project Name: cations_md
 Sample Name: repeat 50 edta
 Channel: SIM Ch2
 Date Acquired: 01/31/95 10:36 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 10.0 min
 Date Processed: 01/31/95 12:38 PM



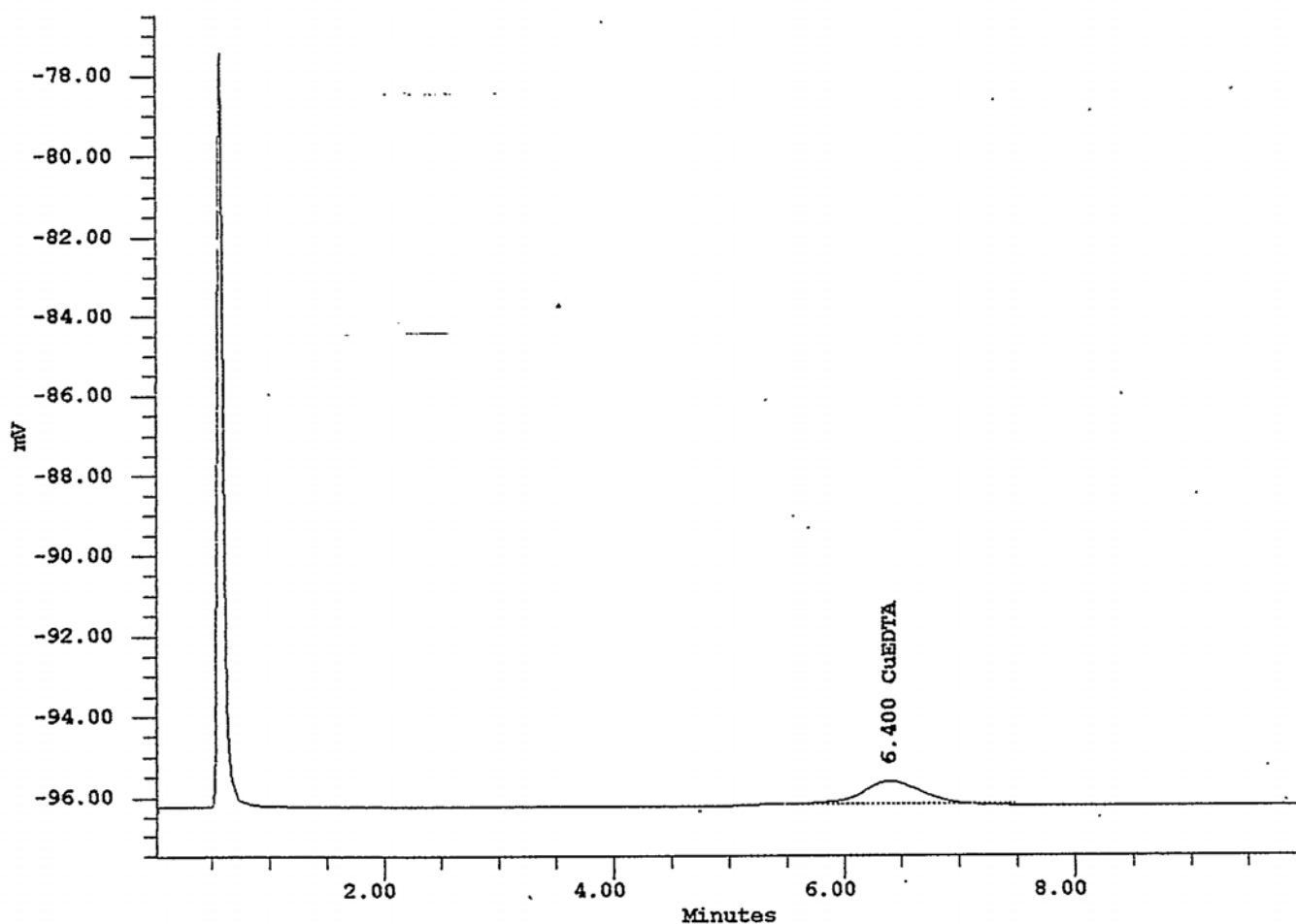
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.433		28106	611	100.00	100.00

For Sample: repeat 50 edta Vial: 8 Inj: 4 Chan: SIM Ch2 Date Processed 01/31/95 12:38 PM

Project Name: cations_md
 Sample Name: repeat 50 edta
 Channel: SIM Ch2
 Date Acquired: 01/31/95 10:48 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 10.0 min
 Date Processed: 01/31/95 12:38 PM



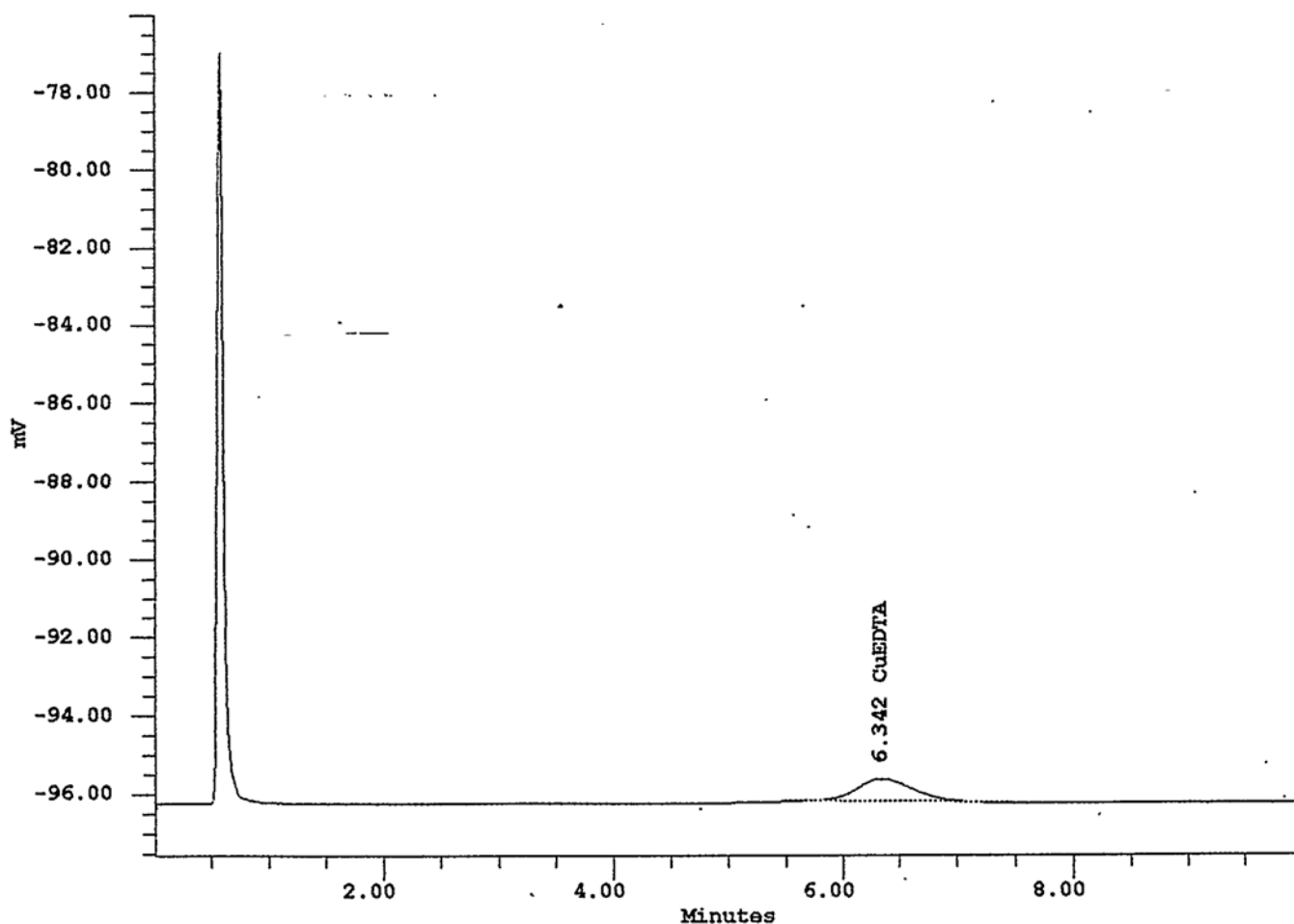
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.400		25087	616	100.00	100.00

For Sample: repeat 50 edta Vial: 8 Inj: 5 Chan: SIM Ch2 Date Processed 01/31/95 12:38 PM

Project Name: cations_md
 Sample Name: repeat 50 edta
 Channel: SIM Ch2
 Date Acquired: 01/31/95 11:00 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 10.0 min
 Date Processed: 01/31/95 12:38 PM

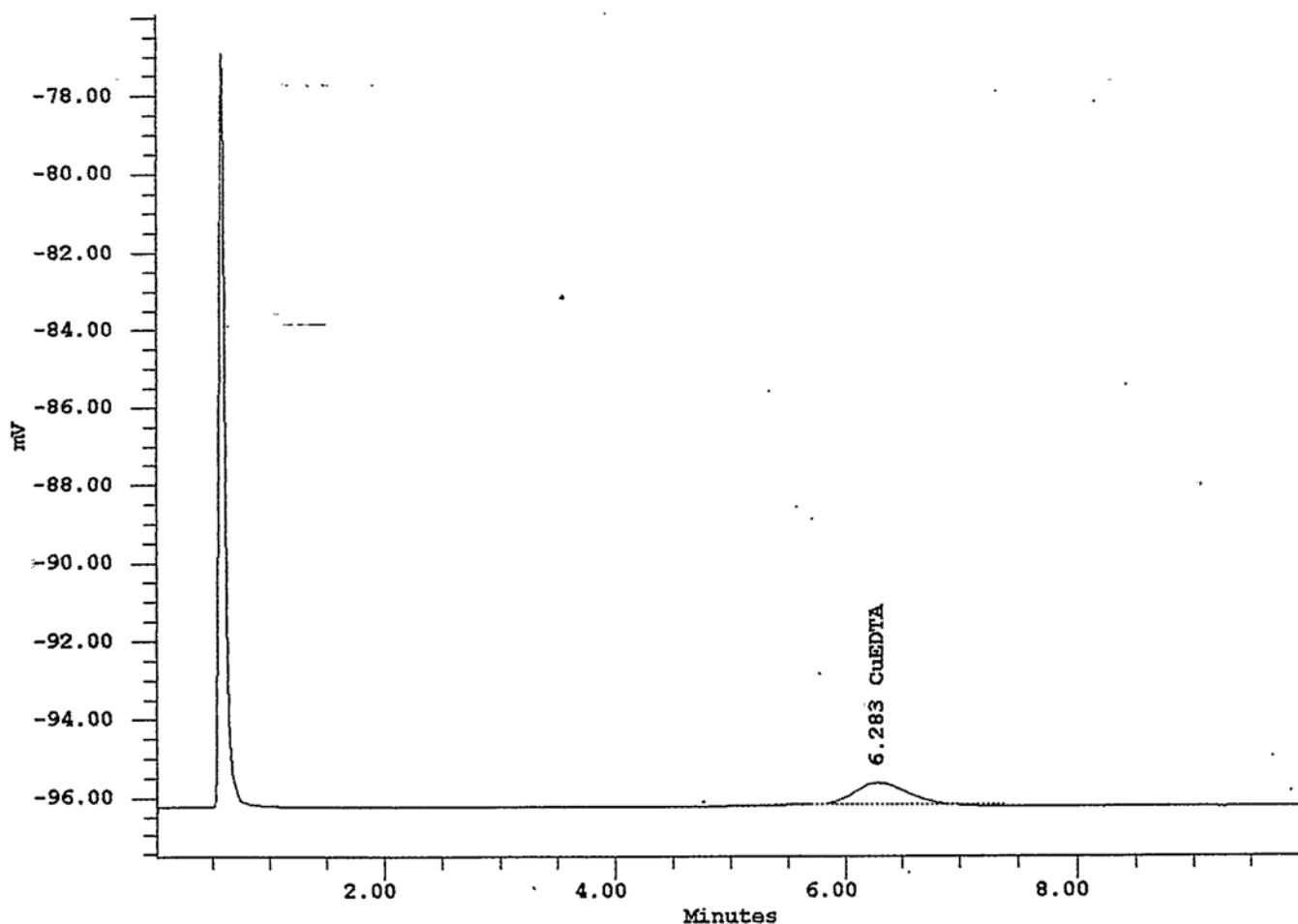


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.342		22118	597	100.00	100.00

For Sample: repeat 50 edta Vial: 8 Inj: 6 Chan: SIM Ch2 Date Processed 01/31/95 12:39 PM

Project Name:	cations_md	Sample Type:	Unknown
Sample Name:	repeat 50 edta	Volume:	25.00
Channel:	SIM Ch2	Run Time:	10.0 min
Date Acquired:	01/31/95 11:12 AM	Date Processed:	01/31/95 12:39 PM
Acq Meth Set:	EDTA_METH_SET		
Processing Method:	EDTA_proc		



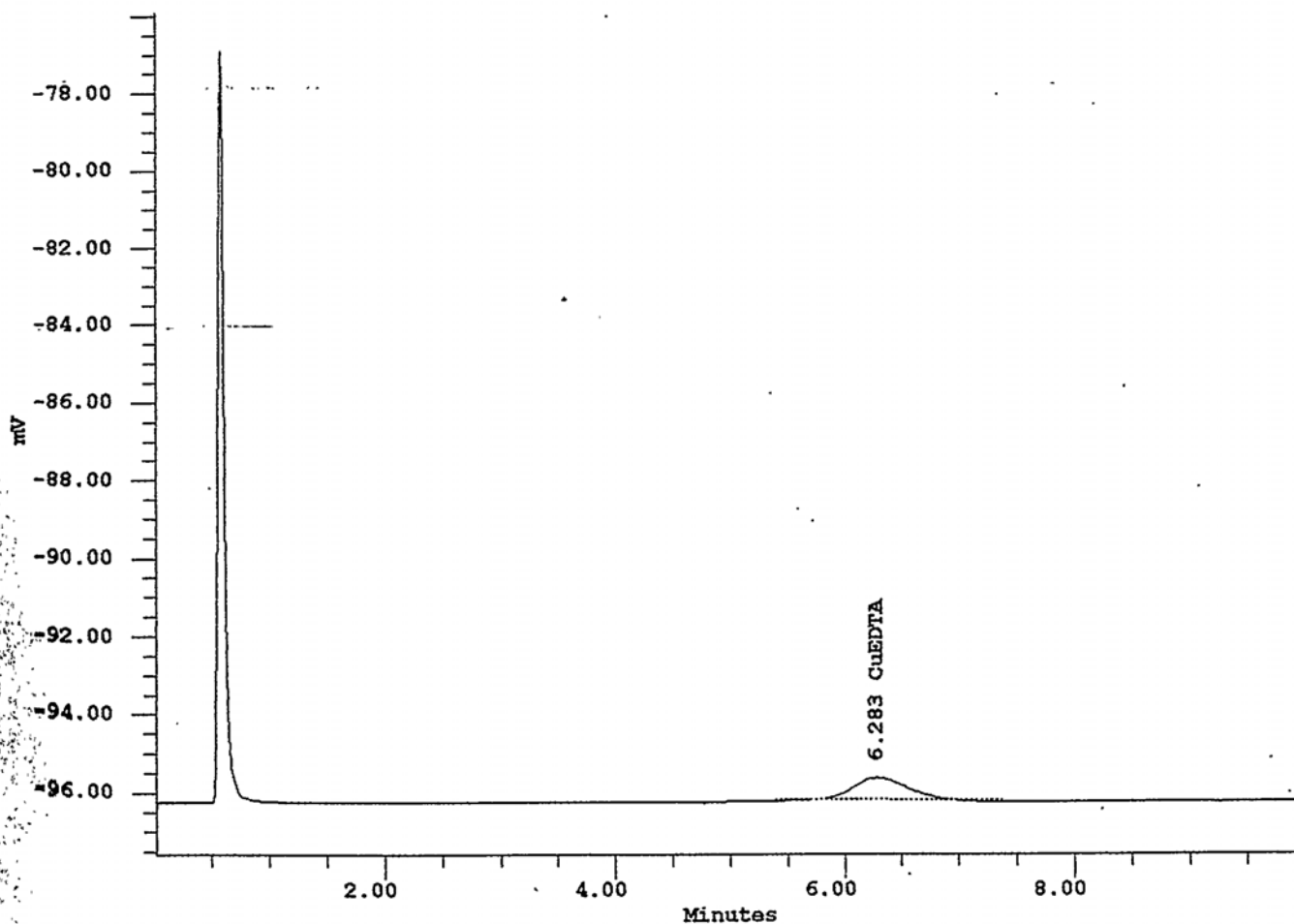
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.283		22048	607	100.00	100.00

For Sample: repeat 50 edta Vial: 8 Inj: 6 Chan: SIM Ch2 Date Processed 01/31/95 12:39 PM

Project Name: cations_md
 Sample Name: repeat 50 edta
 Channel: SIM Ch2
 Date Acquired: 01/31/95 11:12 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 10.0 min
 Date Processed: 01/31/95 12:39 PM



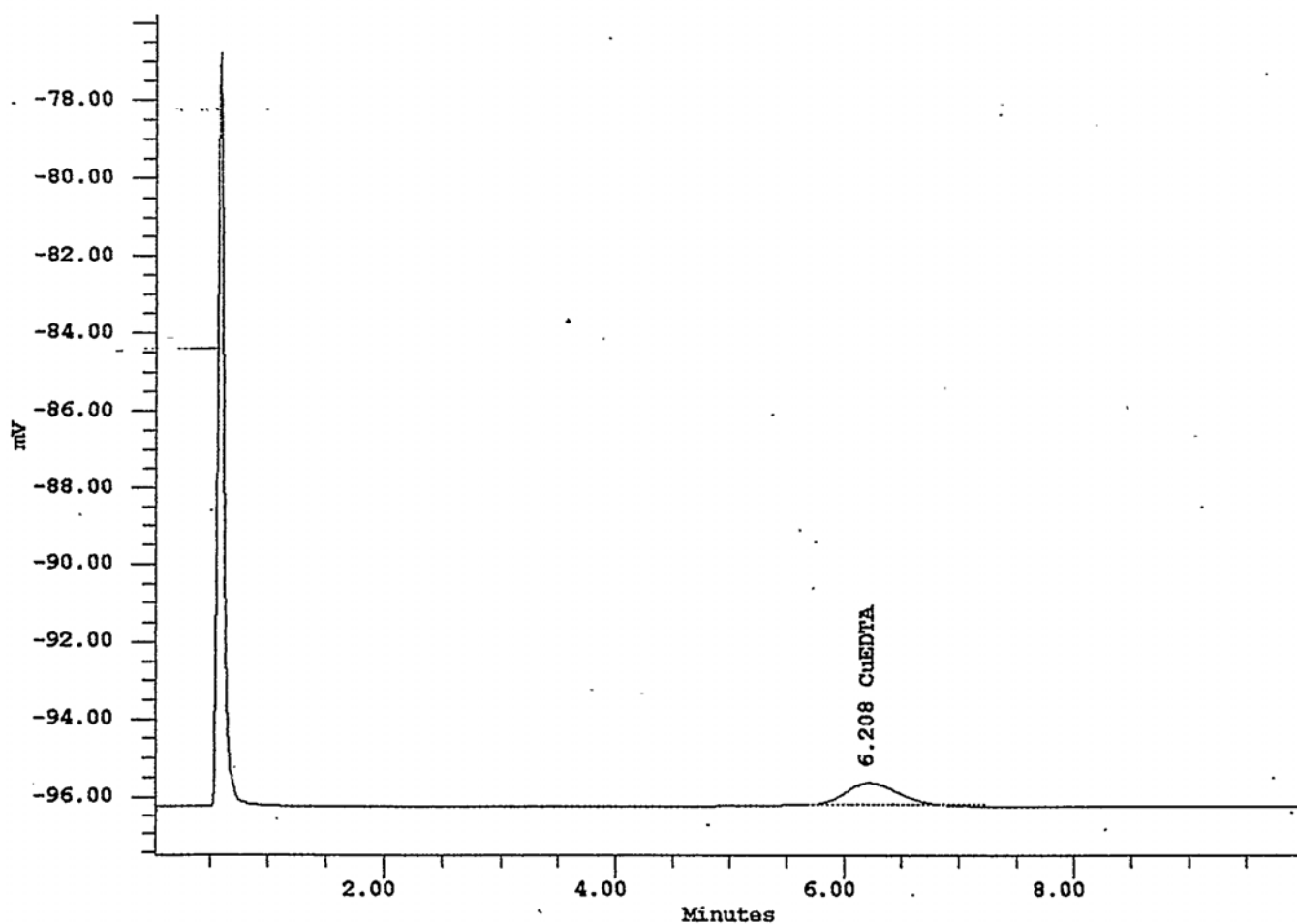
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.283		22048	607	100.00	100.00

For Sample: repeat 50 edta Vial: 8 Inj: 7 Chan: SIM Ch2 Date Processed 01/31/95 12:39 PM

Project Name: cations_md
 Sample Name: repeat 50 edta
 Channel: SIM Ch2
 Date Acquired: 01/31/95 11:24 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 10.0 min
 Date Processed: 01/31/95 12:39 PM



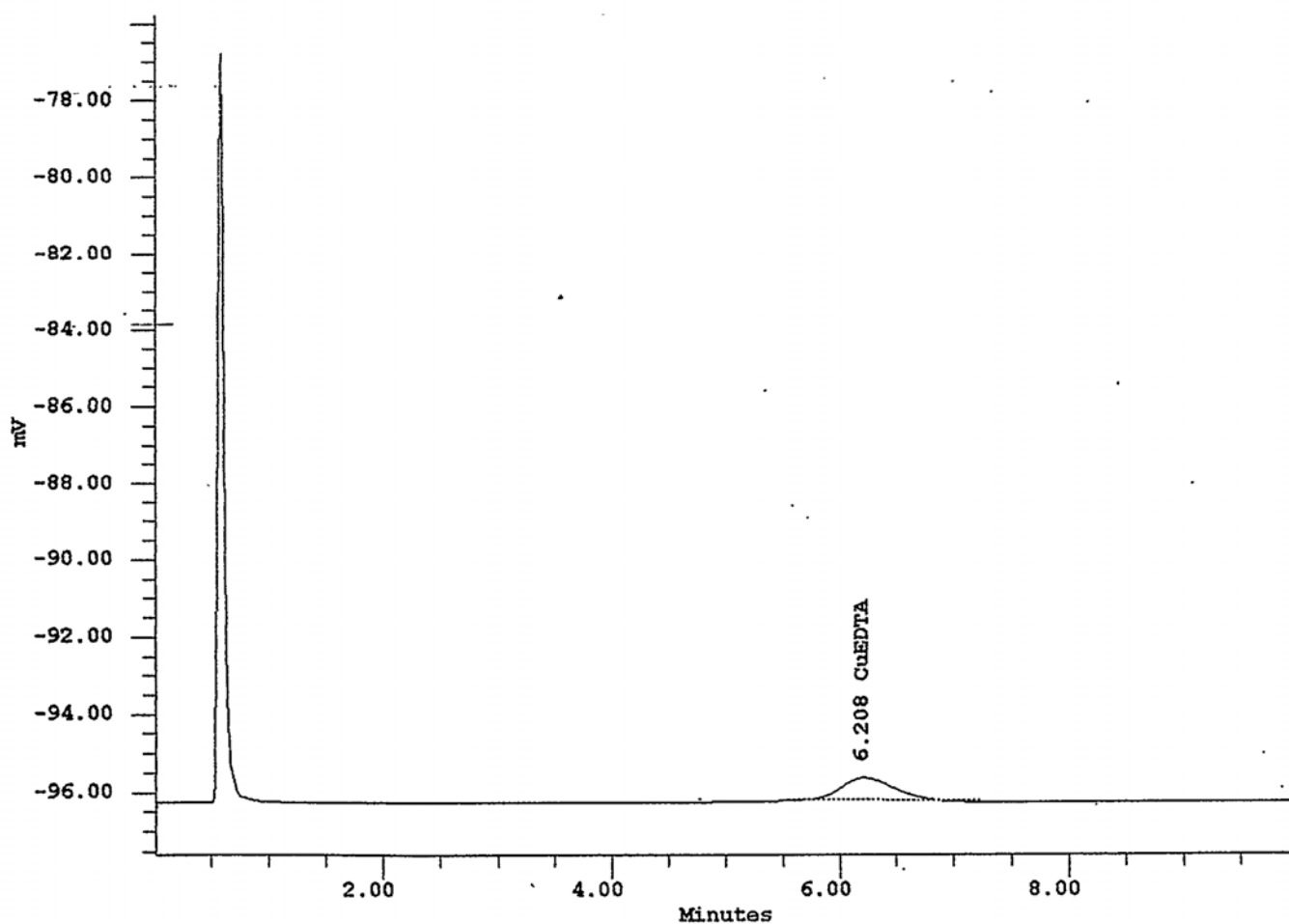
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.208		20441	601	100.00	100.00

For Sample: repeat 50 edta Vial: 8 Inj: 7 Chan: SIM Ch2 Date Processed 01/31/95 12:40 PM

Project Name: cations_md
 Sample Name: repeat 50 edta
 Channel: SIM Ch2
 Date Acquired: 01/31/95 11:24 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 10.0 min
 Date Processed: 01/31/95 12:40 PM

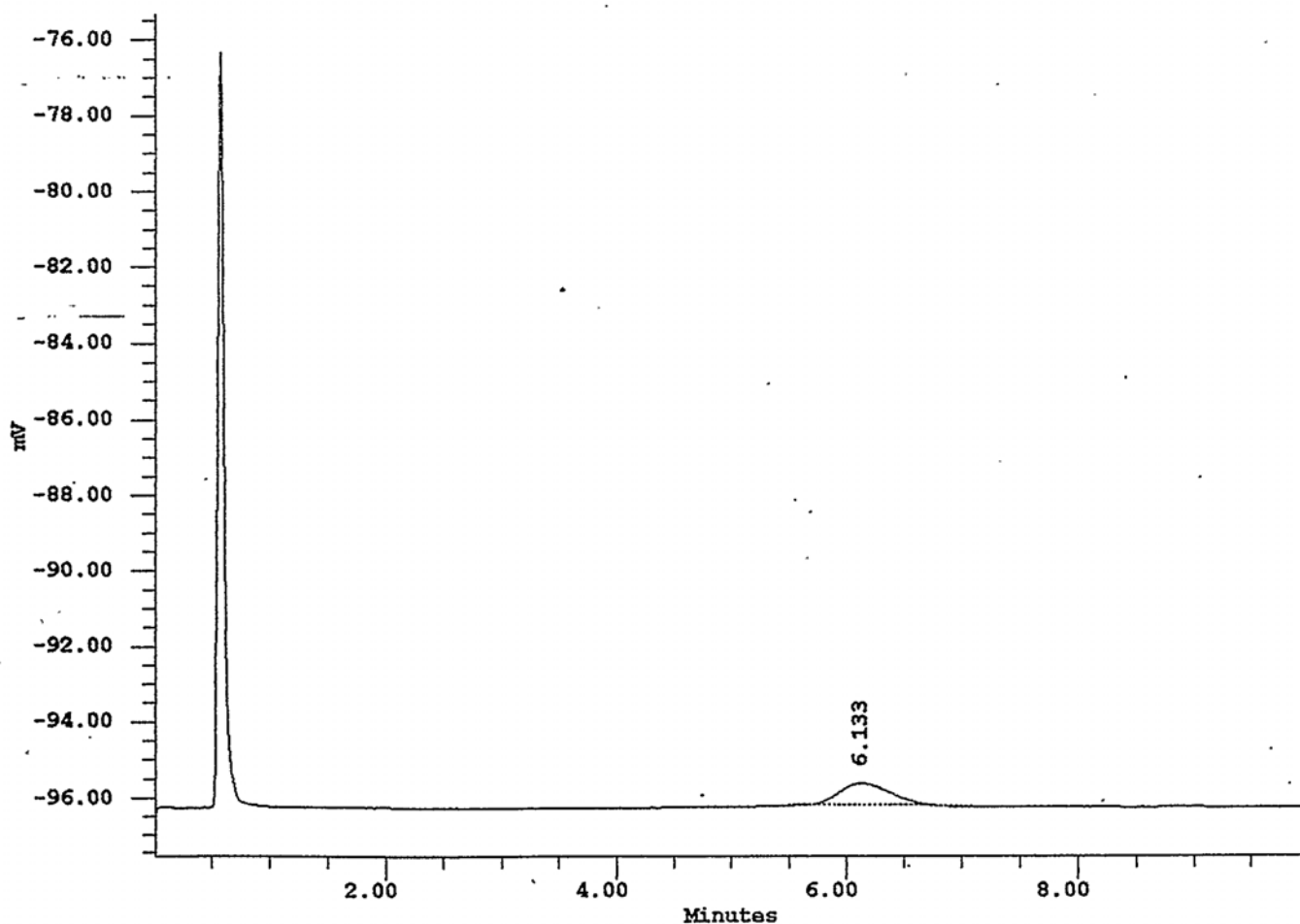


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.208		20441	601	100.00	100.00

For Sample: repeat 50 edta Vial: 8 Inj: 8 Chan: SIM Ch2 Date Processed 01/31/95 12:40 PM

Project Name:	cations_md	Sample Type:	Unknown
Sample Name:	repeat 50 edta	Volume:	25.00
Channel:	SIM Ch2	Run Time:	10.0 min
Date Acquired:	01/31/95 11:36 AM	Date Processed:	01/31/95 12:40 PM
Acq Meth Set:	EDTA_METH_SET		
Processing Method:	EDTA_proc		

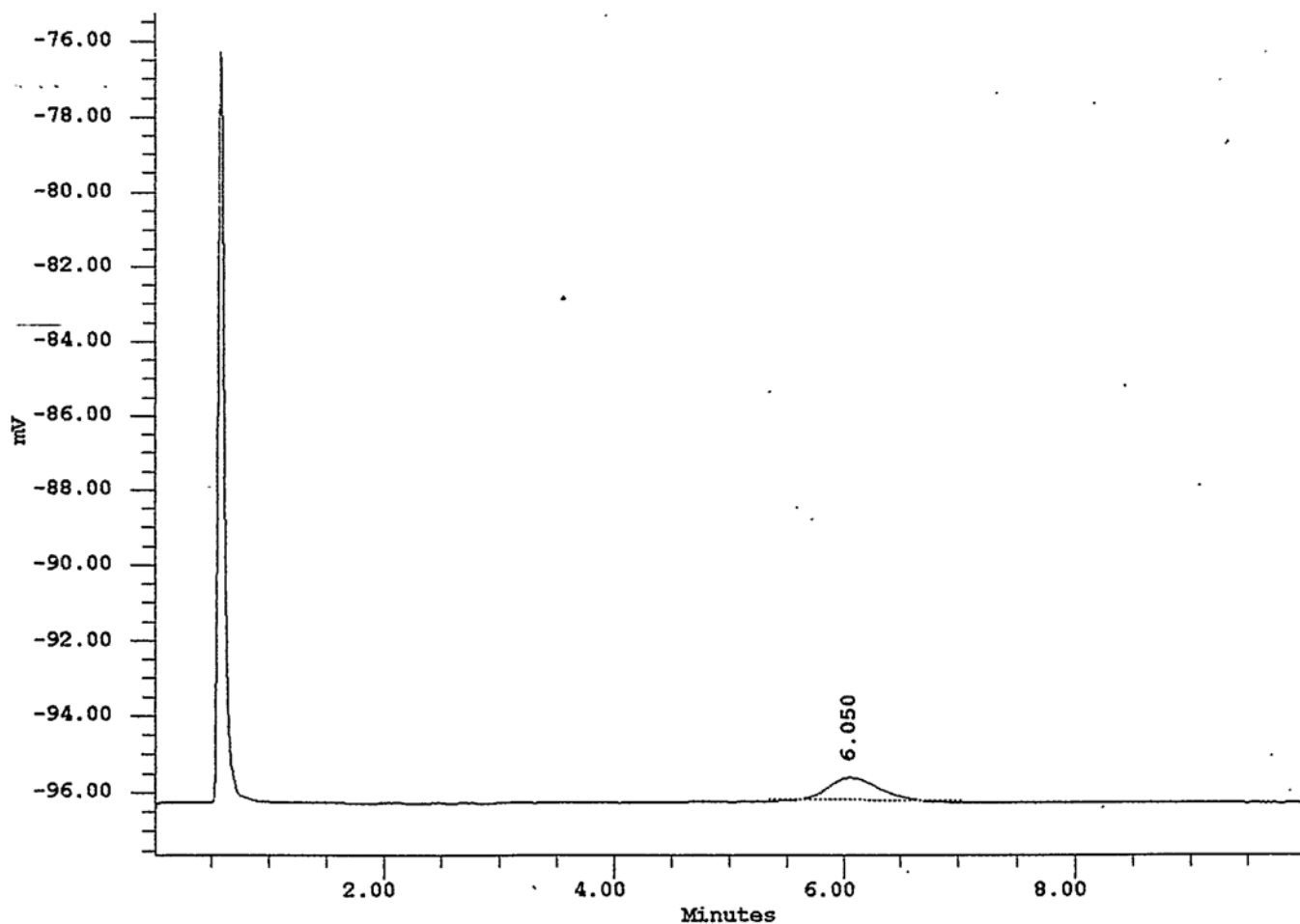


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		6.133		20316	608	100.00	100.00
2	CuEDTA	6.475					

For Sample: repeat 50 edta Vial: 8 Inj: 9 Chan: SIM Ch2 Date Processed 01/31/95 12:40 PM

Project Name:	cations_md	Sample Type:	Unknown
Sample Name:	repeat 50 edta	Volume:	25.00
Channel:	SIM Ch2	Run Time:	10.0 min
Date Acquired:	01/31/95 11:48 AM	Date Processed:	01/31/95 12:40 PM
Acq Meth Set:	EDTA_METH_SET		
Processing Method:	EDTA_proc		



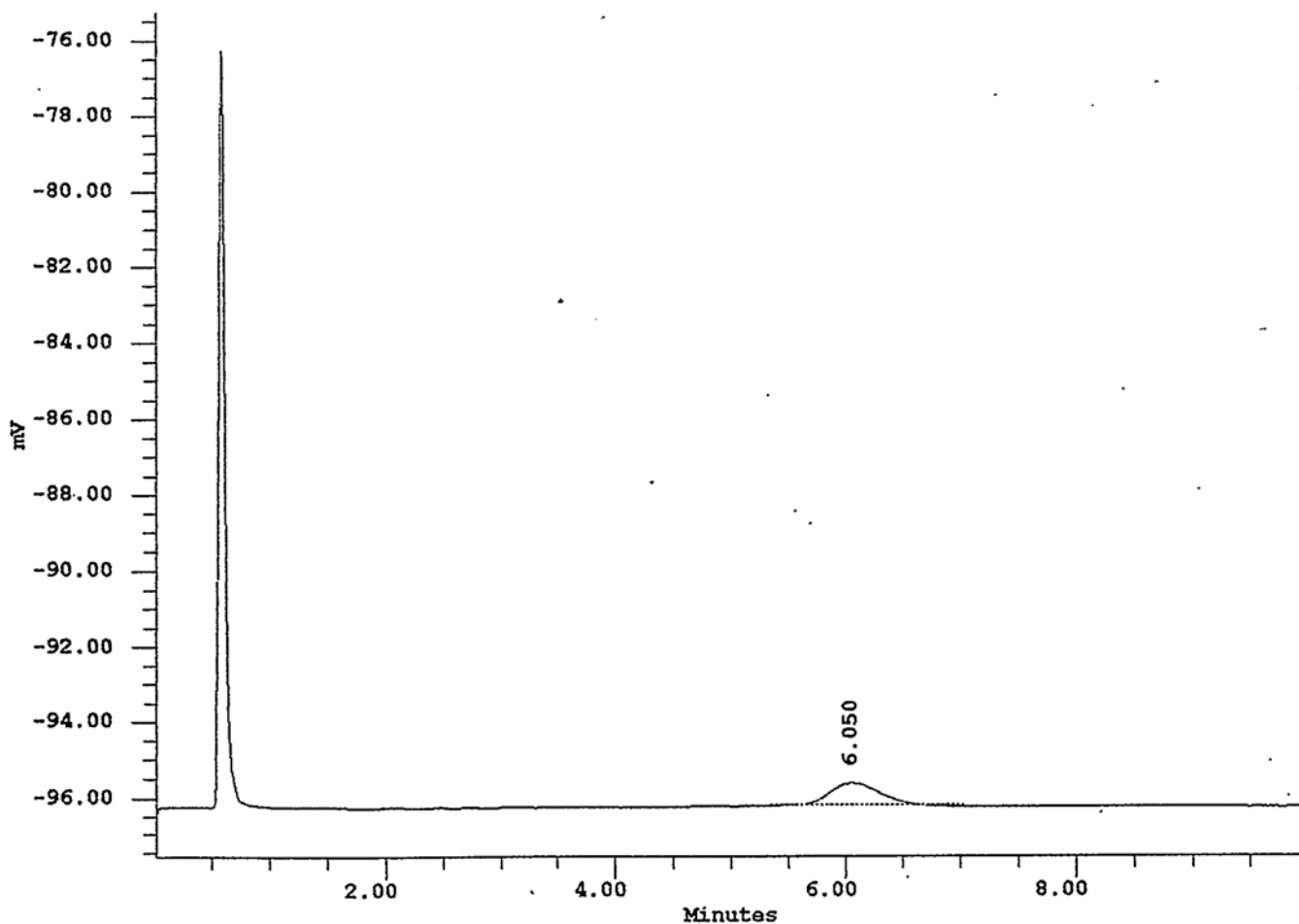
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		6.050		20920	630	100.00	100.00
2	CuEDTA	6.475					

For Sample: repeat 50 edta Vial: 8 Inj: 9 Chan: SIM Ch2 Date Processed 01/31/95 12:41 PM

Project Name: cations_md
 Sample Name: repeat 50 edta
 Channel: SIM Ch2
 Date Acquired: 01/31/95 11:48 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 10.0 min
 Date Processed: 01/31/95 12:41 PM



Peak Results

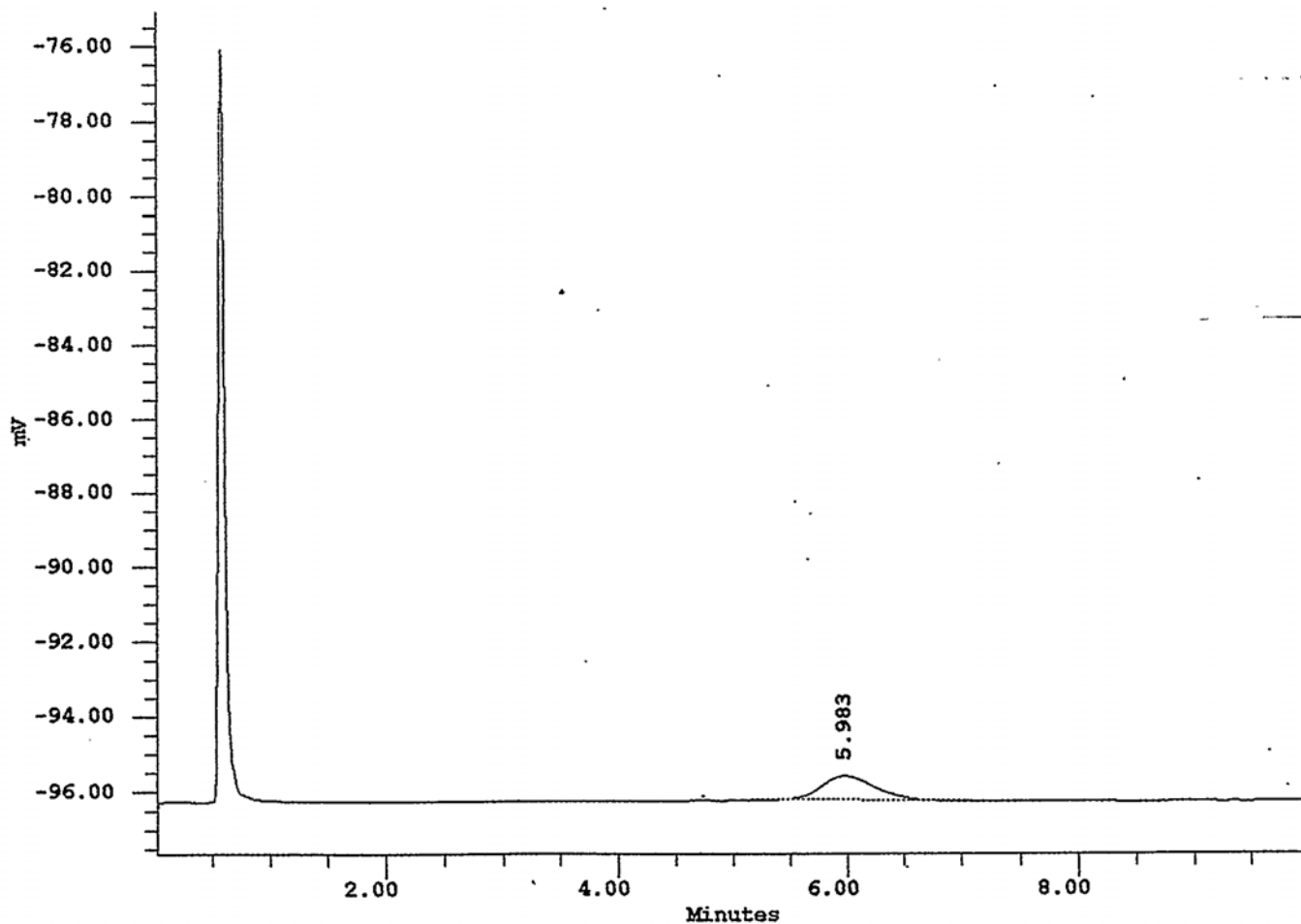
#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		6.050		20920	630	100.00	100.00
2	CuEDTA	6.475					

For Sample: repeat 50 edta Vial: 8 Inj: 10 Chan: SIM Ch2

Date Processed 01/31/95 12:41 PM

Project Name: cations_md
 Sample Name: repeat 50 edta
 Channel: SIM Ch2
 Date Acquired: 01/31/95 12:00 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 10.0 min
 Date Processed: 01/31/95 12:41 PM

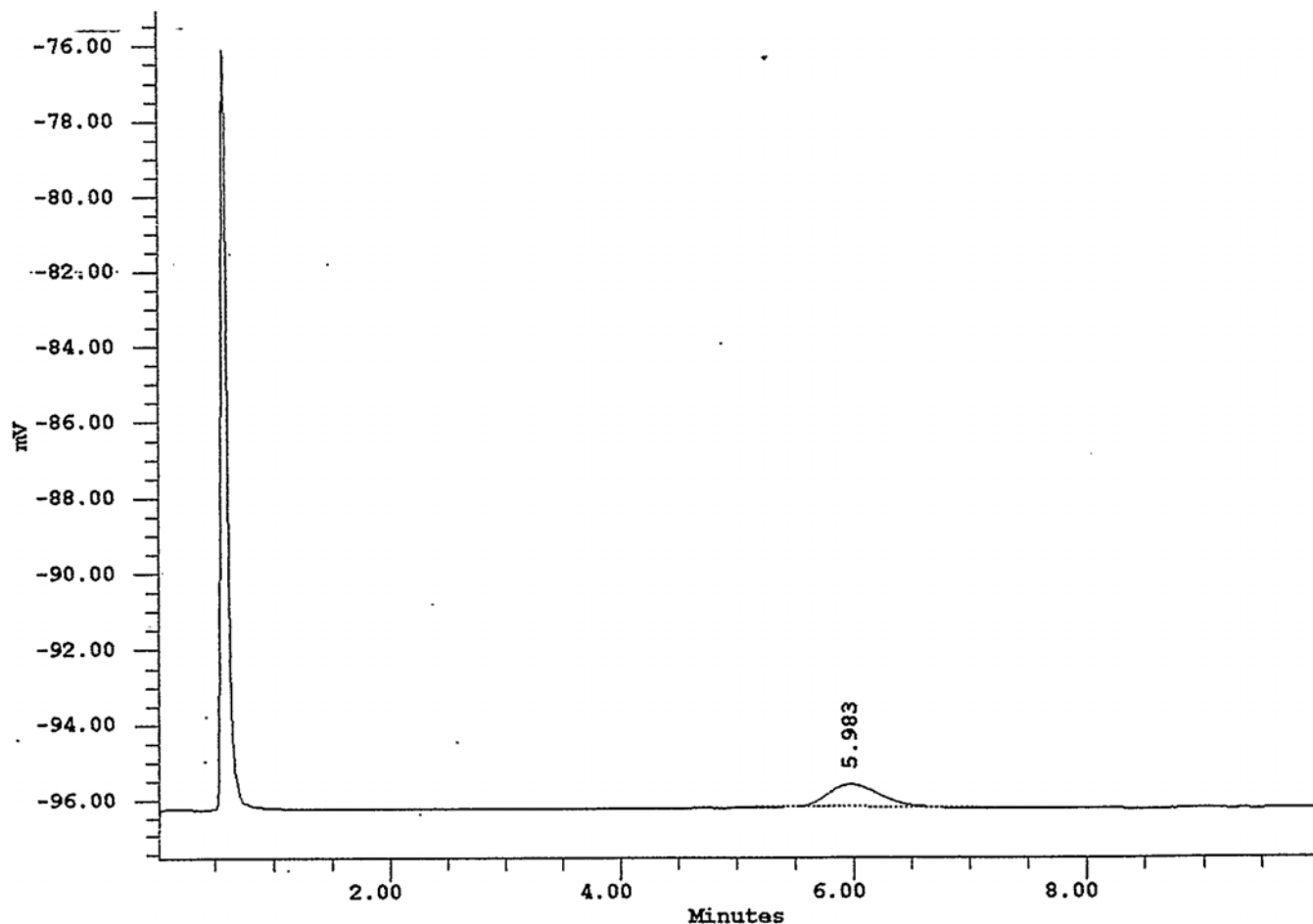


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.983		21722	645	100.00	100.00
2	CuEDTA	6.475					

For Sample: repeat 50 edta Vial: 8 Inj: 10 Chan: SIM Ch2 Date Processed 01/31/95 12:42 PM

Project Name:	cations_md	Sample Type:	Unknown
Sample Name:	repeat 50 edta	Volume:	25.00
Channel:	SIM Ch2	Run Time:	10.0 min
Date Acquired:	01/31/95 12:00 PM	Date Processed:	01/31/95 12:42 PM
Acq Meth Set:	EDTA_METH_SET		
Processing Method:	EDTA_proc		



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.983		21722	645	100.00	100.00
2	CuEDTA	6.475					

Project No. _____

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TITLE _____

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Blind test of EDTA ANALYSIS

Samples consist of white cloth on which blood stains are located.

AMT 0.025M CuSO_4

1	$\frac{1}{4} \text{ cm}^2$	50 ul
2	"	50
3	"	50
4	"	50
5	$\frac{1}{2} \text{ cm}^2$ "	100 50
6	$\frac{1}{2} \text{ cm}^2$	100 ul
7	$\frac{1}{3}$	100
8	$\frac{1}{2}$	100
9	$\frac{1}{3}$	100
10	$\frac{1}{3}$	100
11	$\frac{1}{3}$	100
12	$\frac{1}{2}$	100
13	$\frac{1}{4}$	50
14	$\frac{1}{2}$	100
15	$\frac{1}{3}$	100
16	$\frac{1}{3}$	100
17	$\frac{1}{2}$	100
18	$\frac{1}{4}$	50
19	$\frac{1}{3}$	100
20	$\frac{1}{2}$	100
21	$\frac{1}{3}$	100
22	$\frac{1}{2}$	100
23	$\frac{1}{2}$	100
24	$\frac{1}{2}$	100
25	$\frac{1}{4}$	50
26	$\frac{1}{2}$	100
27	$\frac{1}{3}$	100
28	—	—
29	$\frac{1}{3}$	100
30	$\frac{1}{3}$	100

23C $\frac{1}{2}$ 100

To Page No. _____

Witnessed & Understood by me, _____

Date _____

Invented by _____

Date _____

Recorded by _____

FBI(24-cv-1564)-3152

Page No. _____

Samples were placed in centrifuge vials & sonicated
 1 hr. They were let sit over lunch,
 vortexed, centrifuged on high for 10 minutes
 and transferred 50 μ l into HPLC Autosampler
 vials.

Samples were run: 254 nm
 2 ml/min
 95/5 3 mM H_2SO_4 / MeOH
 Hamilton PPPX-100
 25 μ l injections

Waters HPLC w/ Kratos UV detector
 data collected via Millennium Software

Results of Blind study - matched 100%

31	$1/3 \text{ cm}^2$	100 μ l 0.025 M $CaSO_4$	
32	$1/2$	100	
33	$1/3$	100	
34	$1/3$	100	34C $1/2$ 100
35	$1/2$	100	
36	$1/2$	100	
37	$1/2$	100	
38	$1/2$	100	
39	$1/4$	50	
40	$1/4$	50	
41			
42	$1/3$	100	
43	$1/3$	100	
44			
45			

Results matched 100%

To Page No. _____

Millennium Processing Report: report_met_1

Page 1

For Sample: 50ppmstd Vial: 1 Inj: 1 Chan: SIM Ch2 Date Processed 02/02/95 04:33 PM

Project Name: cations_ind

Sample Type: Unknown

Sample Name: 50ppmstd

Volume: 25.00

Channel: SIM Ch2

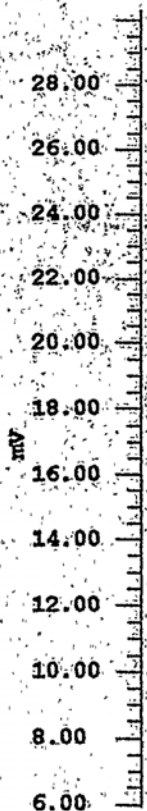
Date Acquired: 02/02/95 04:24 PM

Run Time: 8.0 min

Date Processed: 02/02/95 04:33 PM

Acq Meth Set: EDTA METH SET

Processing Method: EDTA_proc



5.350

FBI(24-cv-1564)-3154

4.00

2.00

4.00

6.00

Minutes

Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.350		25243	651	100.00	100.00
2	CuEDTA	6.475					

For Sample: b_lank

Vial: 2 Inj: 1 Chan: SIM Ch2

Date Processed 02/02/95 04:43 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: b_lank

Volume: 25.00

Channel: SIM Ch2

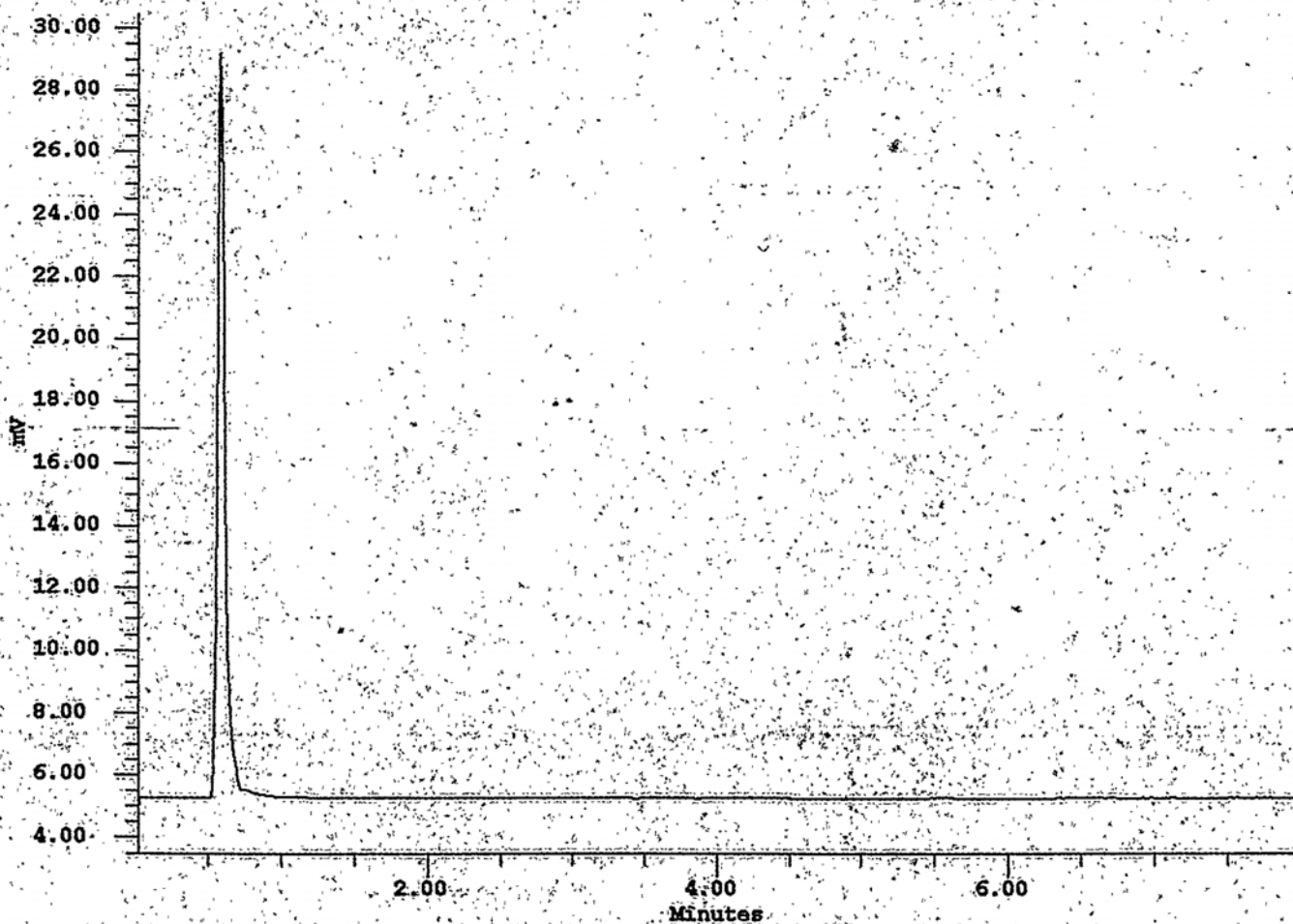
Run Time: 8.0 min.

Date Acquired: 02/02/95 04:34 PM

Date Processed: 02/02/95 04:43 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc

*Peak Results*

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: control 7c Vial: 3 Inj: 1 Chan: SIM Ch2 Date Processed 02/02/95 04:53 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: control 7c

Volume: 25.00

Channel: SIM Ch2

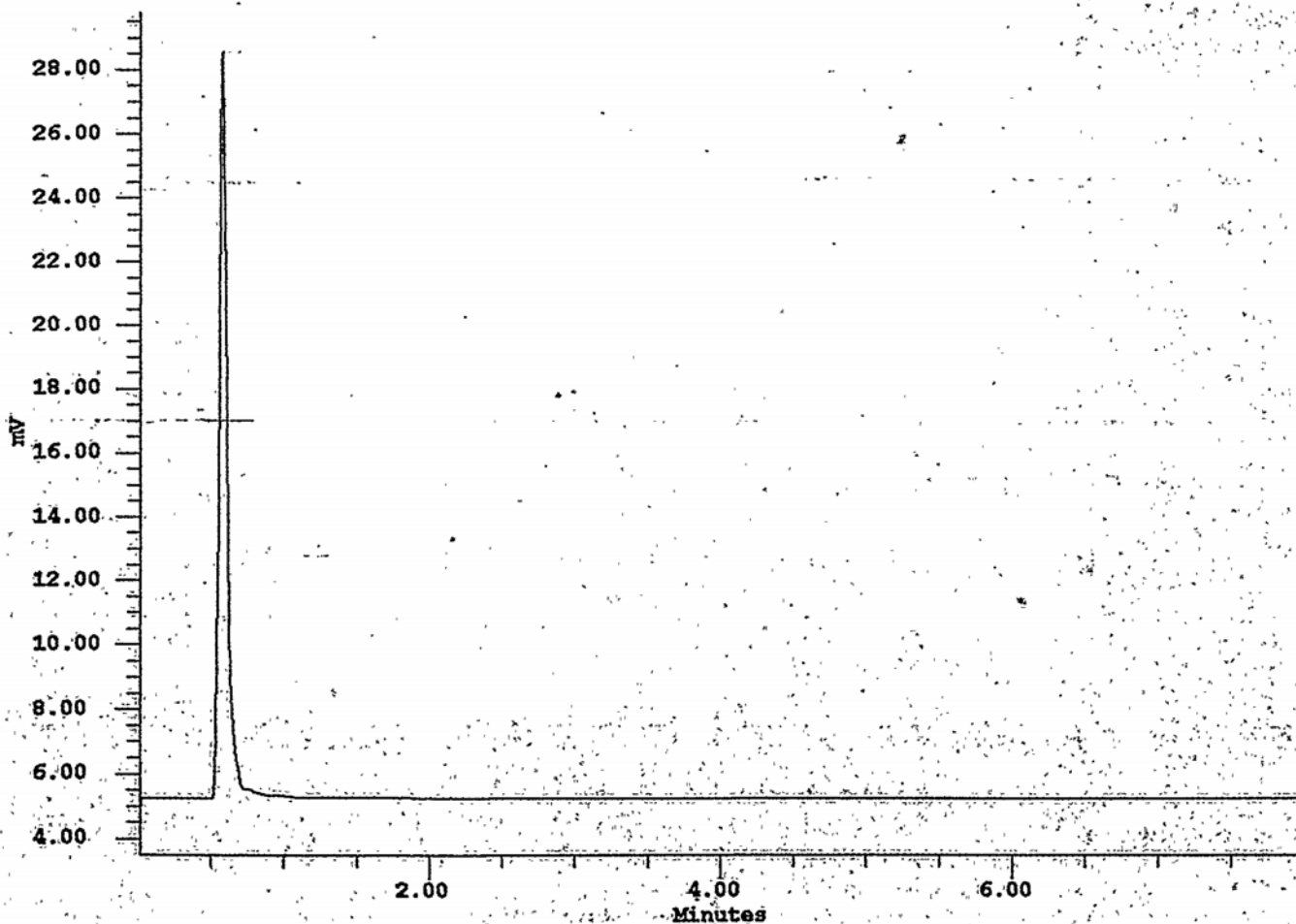
Run Time: 8.0 min

Date Acquired: 02/02/95 04:44 PM

Date Processed: 02/02/95 04:53 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #1bloodst Vial: 4 Inj: 1 Chan: SIM Ch2 Date Processed 02/02/95 05:03 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #1bloodst

Volume: 25.00

Channel: SIM Ch2

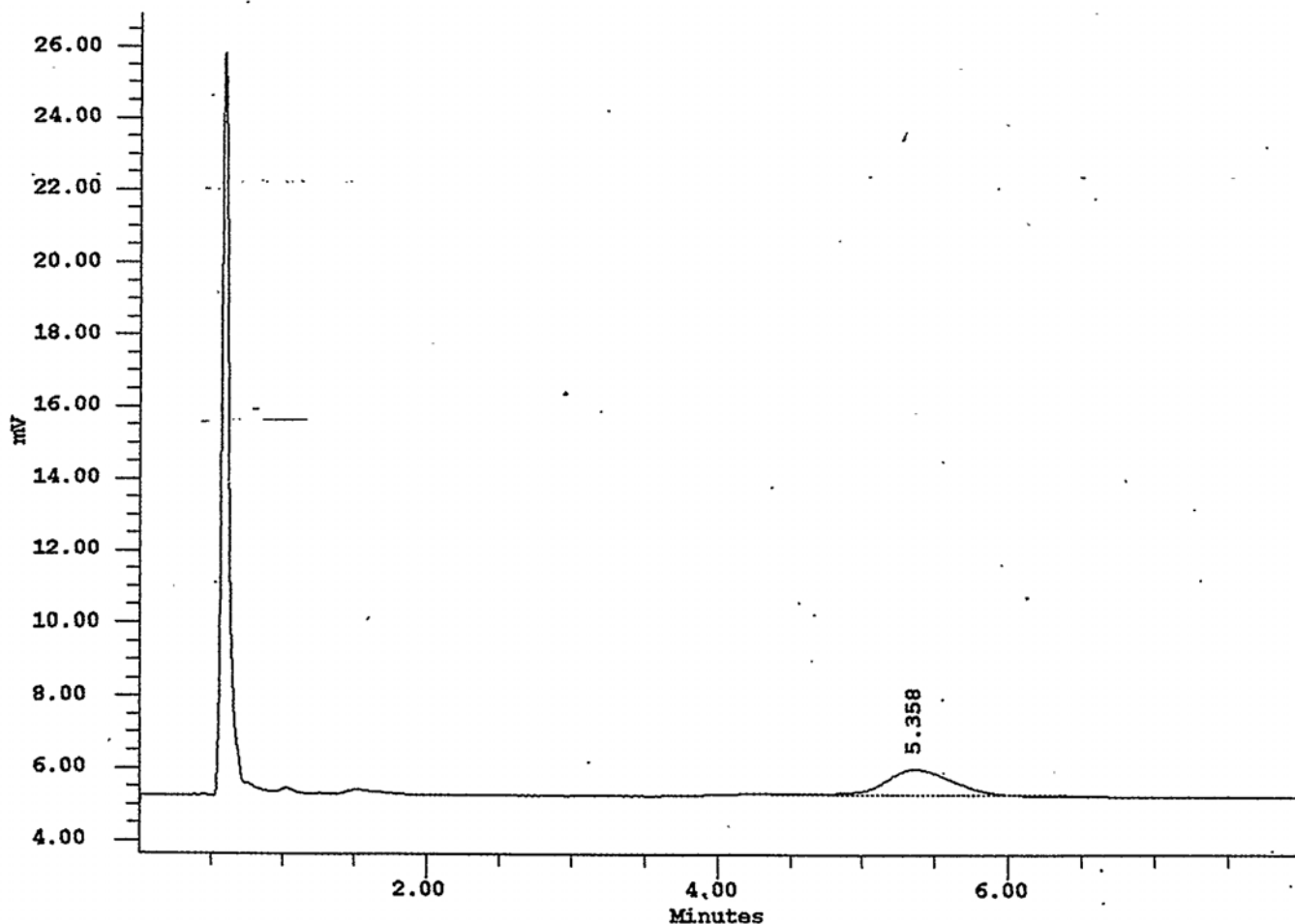
Run Time: 8.0 min

Date Acquired: 02/02/95 04:54 PM

Date Processed: 02/02/95 05:03 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



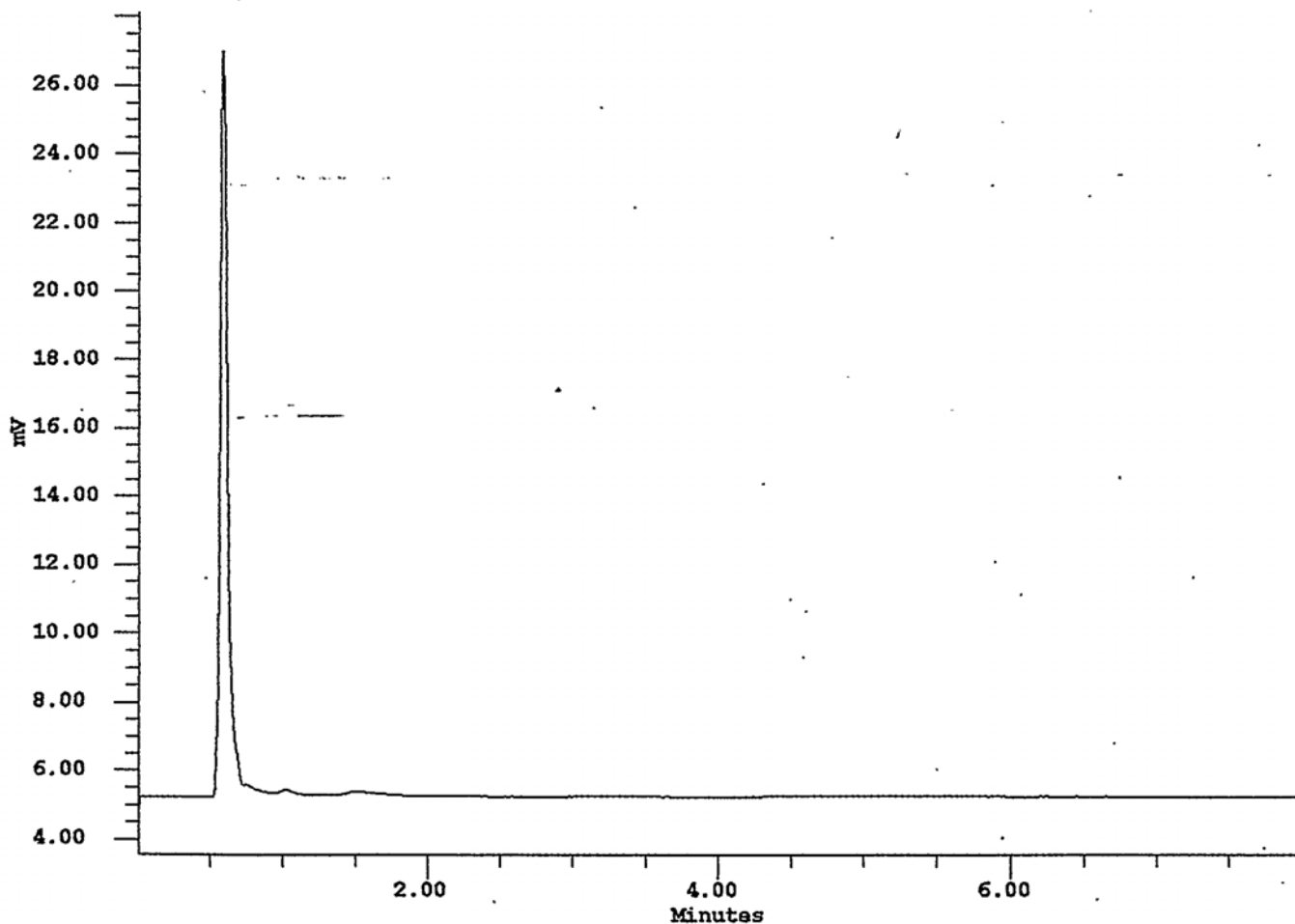
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.358		27390	759	100.00	100.00
2	CuEDTA	6.475					

For Sample: #2bloodst Vial: 5 Inj: 1 Chan: SIM Ch2 Date Processed 02/02/95 05:13 PM

Project Name: cations_md
 Sample Name: #2bloodst
 Channel: SIM Ch2
 Date Acquired: 02/02/95 05:04 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/02/95 05:13 PM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

Sample: #3bloodst

Vial: 6 Inj: 1 Chan: SIM Ch2

Date Processed 02/02/95 05:23 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #3bloodst

Volume: 25.00

Channel: SIM Ch2

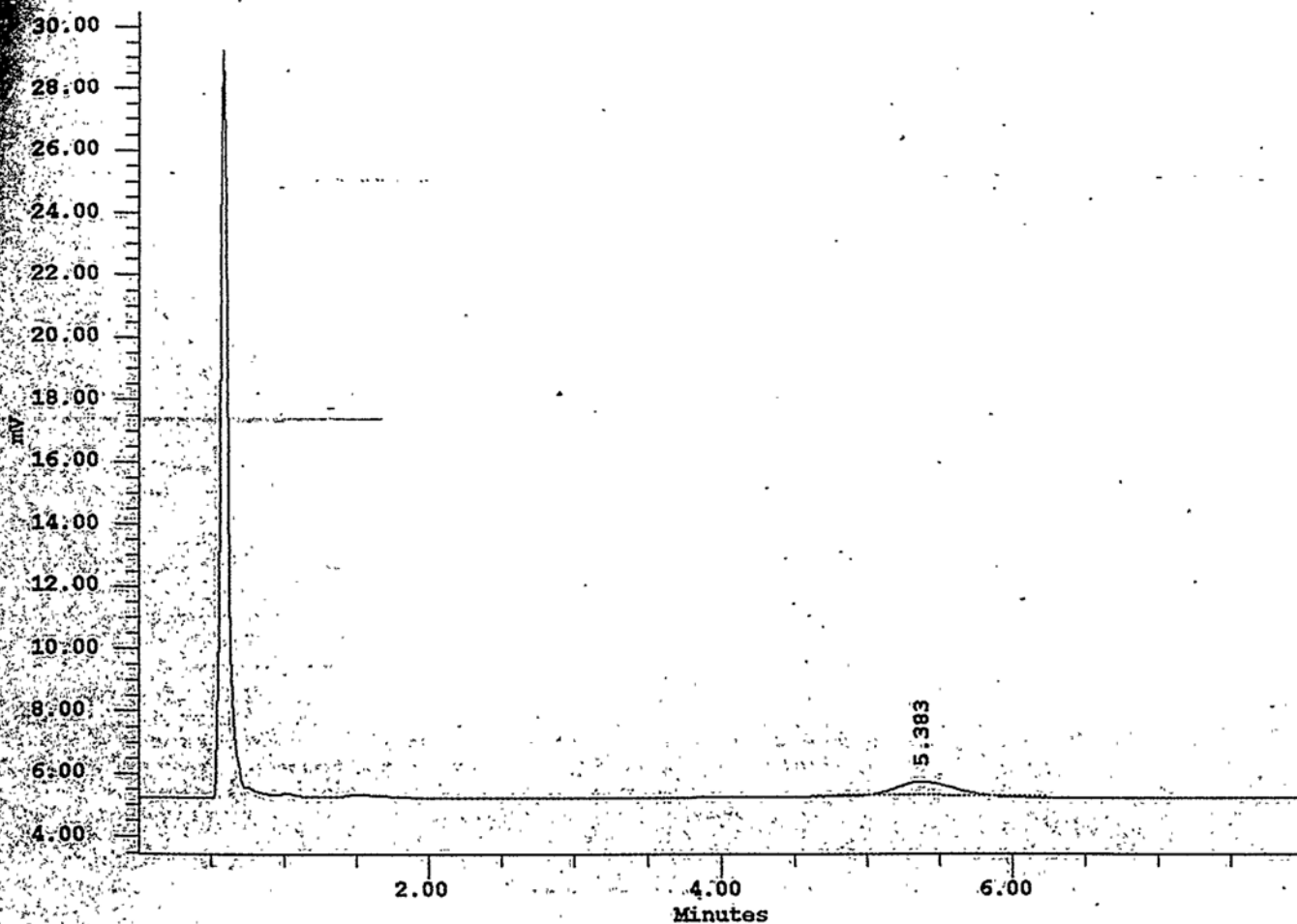
Run Time: 8.0 min

Date Acquired: 02/02/95 05:14 PM

Date Processed: 02/02/95 05:23 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.383		14054	472	100.00	100.00
2	CuEDTA	6.475					

For Sample: #4bloodst Vial: 7 Inj: 1 Chan: SIM Ch2 Date Processed 02/02/95 05:33 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #4bloodst

Volume: 25.00

Channel: SIM Ch2

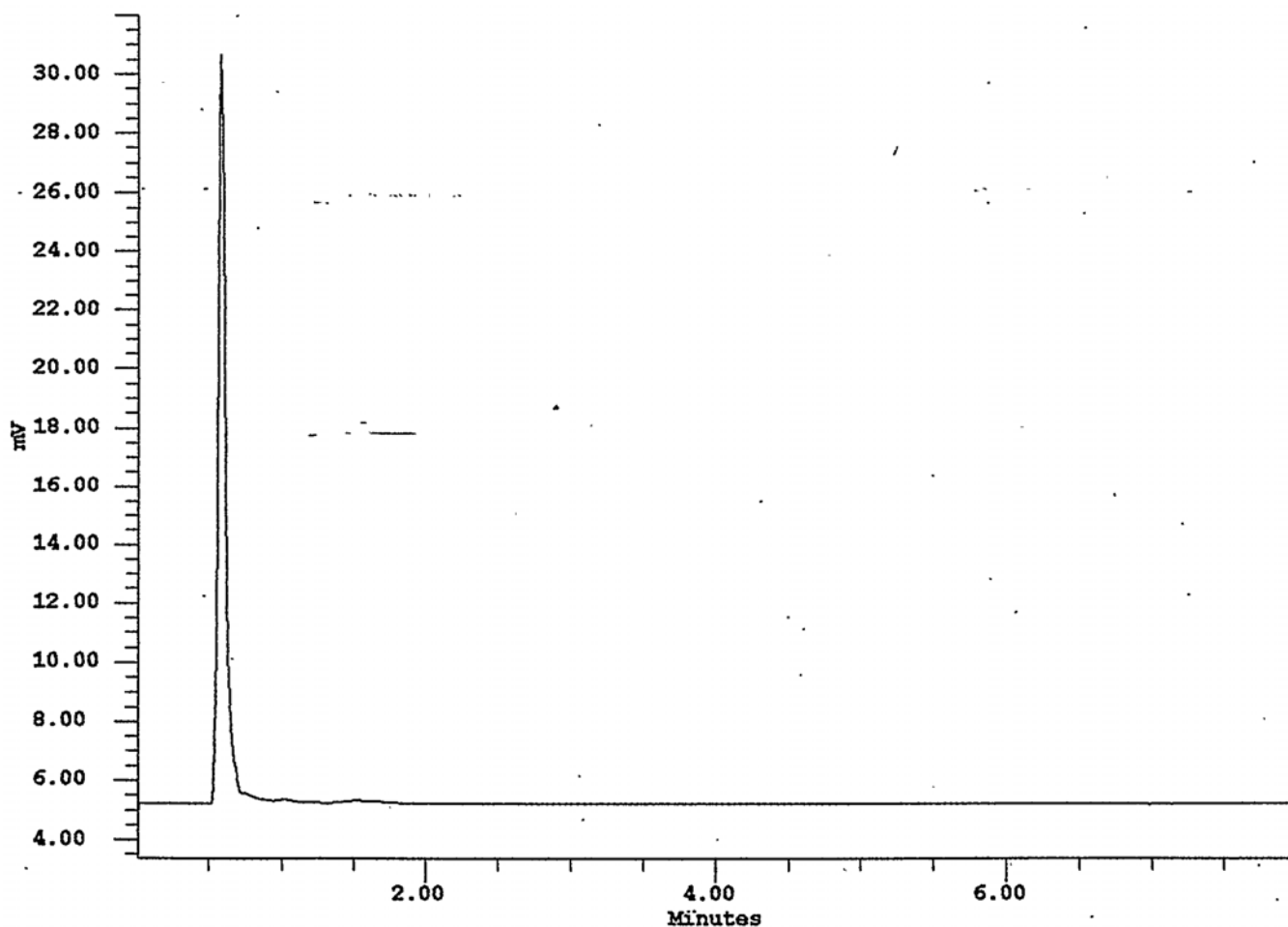
Date Acquired: 02/02/95 05:24 PM

Run Time: 8.0 min

Date Processed: 02/02/95 05:33 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #5bloodst Vial: 8 Inj: 1 Chan: SIM Ch2 Date Processed 02/02/95 05:43 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #5bloodst

Volume: 25.00

Channel: SIM Ch2

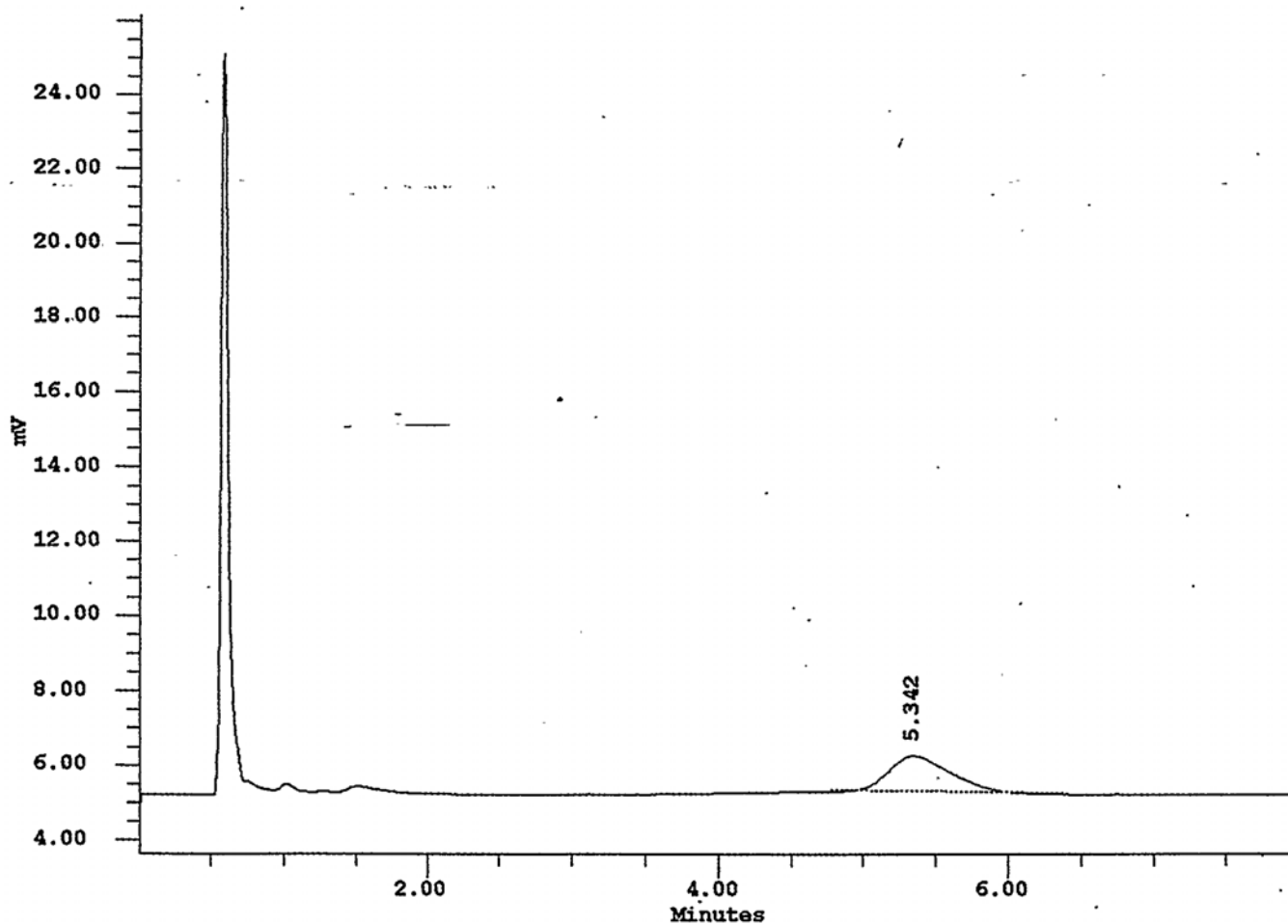
Run Time: 8.0 min

Date Acquired: 02/02/95 05:34 PM

Date Processed: 02/02/95 05:43 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.342		30194	978	100.00	100.00
2	CuEDTA	6.475					

Sample Set: edia3

#	Vial	SampleName	Function	Method Set	# of Injs
1	1	50ppmstd	Inject Samples	EDTA_METH_SET	1
2	2	blank	Inject Samples	EDTA_METH_SET	1
3	3	control 23c	Inject Samples	EDTA_METH_SET	1
4	21	#21bloodst	Inject Samples	EDTA_METH_SET	1
5	22	#22bloodst	Inject Samples	EDTA_METH_SET	1
6	23	23blood	Inject Samples	EDTA_METH_SET	1
7	24	24blood	Inject Samples	EDTA_METH_SET	1
8	25	25blood	Inject Samples	EDTA_METH_SET	1
9	1	50ppmstd	Inject Samples	EDTA_METH_SET	1
10	2	blank	Inject Samples	EDTA_METH_SET	1
11	4	29c	Inject Samples	EDTA_METH_SET	1
12	26	26blood	Inject Samples	EDTA_METH_SET	1
13	27	27blood	Inject Samples	EDTA_METH_SET	1
14	29	29blood	Inject Samples	EDTA_METH_SET	1
15	30	30blood	Inject Samples	EDTA_METH_SET	1
16	31	31blood	Inject Samples	EDTA_METH_SET	1
17	1	50ppmstd	Inject Samples	EDTA_METH_SET	1
18	2	blank	Inject Samples	EDTA_METH_SET	1
19	4	29c	Inject Samples	EDTA_METH_SET	1
20	32	32blood	Inject Samples	EDTA_METH_SET	1
21	33	33blood	Inject Samples	EDTA_METH_SET	1
22	34	34blood	Inject Samples	EDTA_METH_SET	1
23	35	35blood	Inject Samples	EDTA_METH_SET	1
24	36	36blood	Inject Samples	EDTA_METH_SET	1
25	1	50ppmstd	Inject Samples	EDTA_METH_SET	1
26	2	blank	Inject Samples	EDTA_METH_SET	1
27	5	37c	Inject Samples	EDTA_METH_SET	1
28	37	37blood	Inject Samples	EDTA_METH_SET	1
29	38	38blood	Inject Samples	EDTA_METH_SET	1
30	39	39blood	Inject Samples	EDTA_METH_SET	1
31	40	40blood	Inject Samples	EDTA_METH_SET	1
32	42	42blood	Inject Samples	EDTA_METH_SET	1
33	1	50ppmstd	Inject Samples	EDTA_METH_SET	1
34	2	blank	Inject Samples	EDTA_METH_SET	1
35	6	44c.	Inject Samples	EDTA_METH_SET	1
36	43	43blood	Inject Samples	EDTA_METH_SET	1
37	44	44blood	Inject Samples	EDTA_METH_SET	1

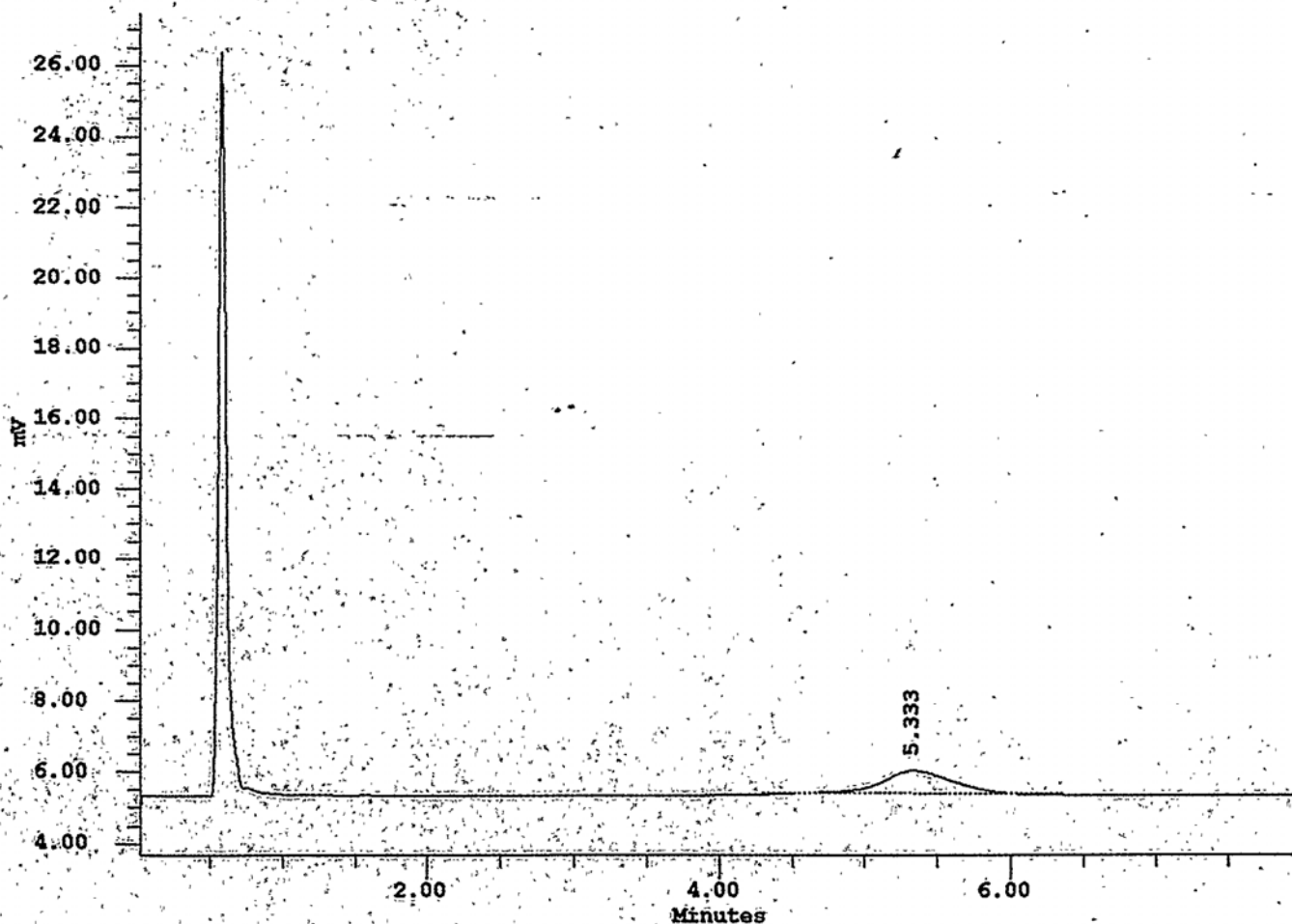
Sample Set: edtablind

#	Vial	SampleName	Function	Method Set	# of Injs
1	1	50ppmstd	Inject Samples	EDTA_METH_SET	1
2	2	blank	Inject Samples	EDTA_METH_SET	1
3	3	control 12c	Inject Samples	EDTA_METH_SET	1
4	6	#6bloodst	Inject Samples	EDTA_METH_SET	1
5	7	#7bloodst	Inject Samples	EDTA_METH_SET	1
6	8	#8bloodst	Inject Samples	EDTA_METH_SET	1
7	9	#9bloodst	Inject Samples	EDTA_METH_SET	1
8	10	#10bloodst	Inject Samples	EDTA_METH_SET	1
9	1	50ppmstd	Inject Samples	EDTA_METH_SET	1
10	2	blank	Inject Samples	EDTA_METH_SET	1
11	5	#1c	Inject Samples	EDTA_METH_SET	1
12	11	#11bloodst	Inject Samples	EDTA_METH_SET	1
13	12	#12bloodst	Inject Samples	EDTA_METH_SET	1
14	13	#13bloodst	Inject Samples	EDTA_METH_SET	1
15	14	#14bloodst	Inject Samples	EDTA_METH_SET	1
16	15	#15bloodst	Inject Samples	EDTA_METH_SET	1
17	1	50ppmedta	Inject Samples	EDTA_METH_SET	1
18	2	blank	Inject Samples	EDTA_METH_SET	1
19	21	#9c	Inject Samples	EDTA_METH_SET	1
20	16	#16bloodst	Inject Samples	EDTA_METH_SET	1
21	17	#17bloodst	Inject Samples	EDTA_METH_SET	1
22	18	#18bloodst	Inject Samples	EDTA_METH_SET	1
23	19	#19bloodst	Inject Samples	EDTA_METH_SET	1
24	20	#20bloodst	Inject Samples	EDTA_METH_SET	1
25	1	50ppmstd	Inject Samples	EDTA_METH_SET	1

For Sample: 50ppmstd Vial: 1 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 11:29 AM

Project Name: cations_md
 Sample Name: 50ppmstd
 Channel: SIM Ch2
 Date Acquired: 02/06/95 11:20 AM
 Acq Meth Set: EDTA METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/06/95 11:29 AM



Peak Results

#	Name	Ret. Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.333		25388	669	100.00	100.00
2	CuEDTA	6.475					

For Sample: b lank

Vial: 2 Inj: 1 Chan: SIM Ch2

Date Processed 02/06/95 11:39 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: b lank

Volume: 25.00

Channel: SIM Ch2

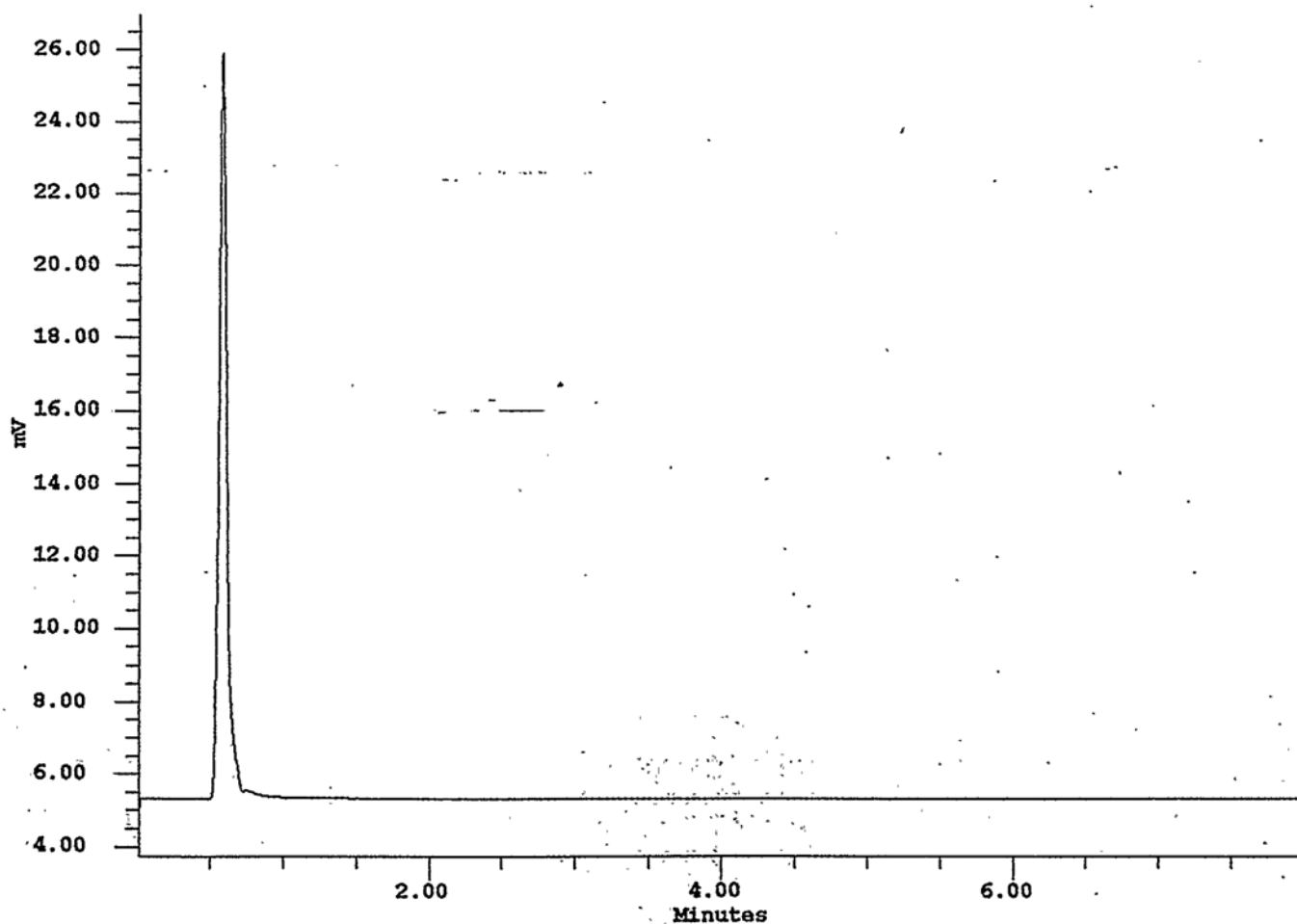
Date Acquired: 02/06/95 11:30 AM

Run Time: 8.0 min

Date Processed: 02/06/95 11:39 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc

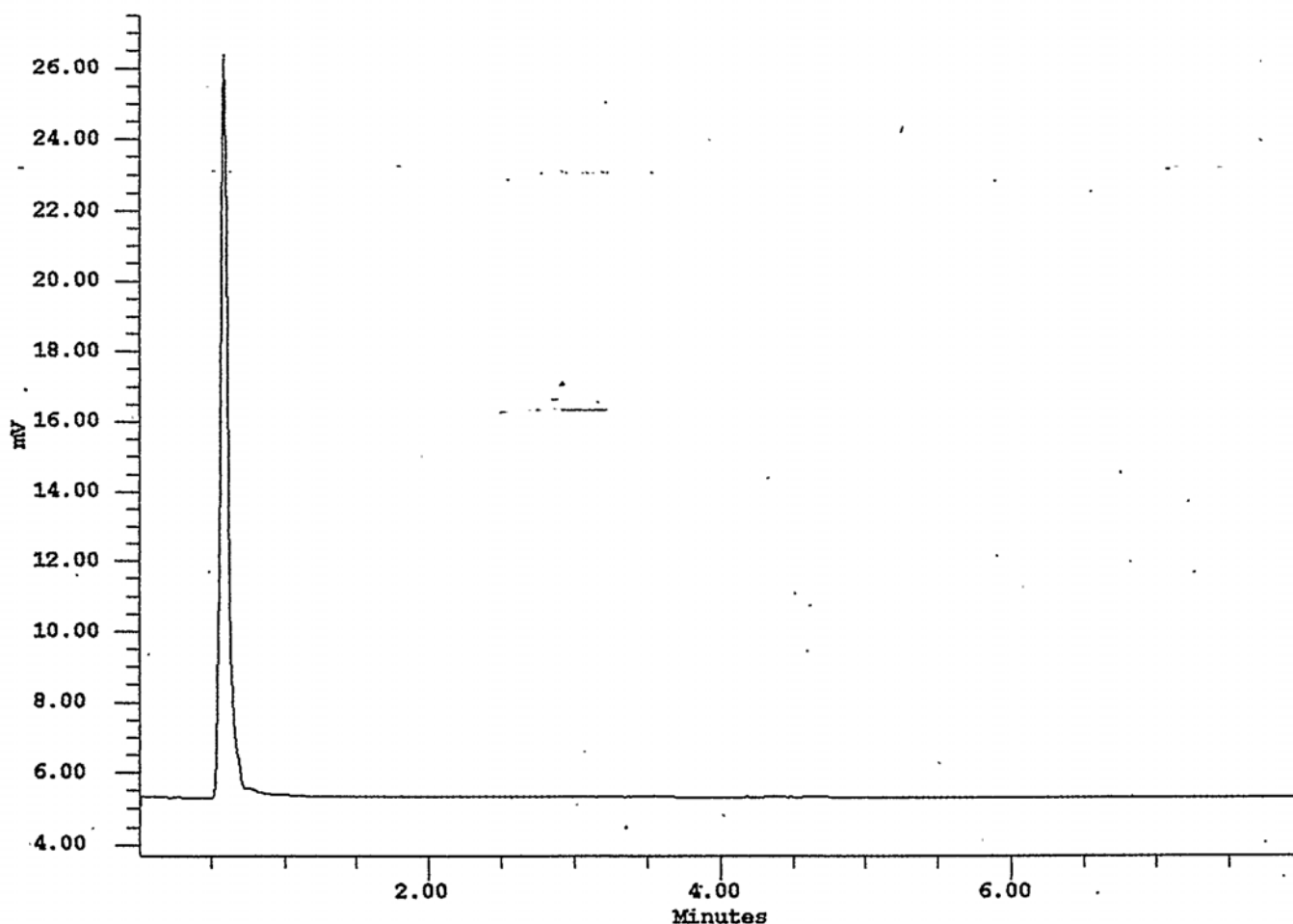


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: control 12c Vial: 3 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 11:49 AM

Project Name: cations_md Sample Type: Unknown
Sample Name: control 12c Volume: 25.00
Channel: SIM Ch2
Date Acquired: 02/06/95 11:41 AM Run Time: 8.0 min
Date Processed: 02/06/95 11:49 AM
Acq Meth Set: EDTA_METH_SET
Processing Method: EDTA_proc

*Peak Results*

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #6bloodst Vial: 6 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 11:59 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #6bloodst

Volume: 25.00

Channel: SIM Ch2

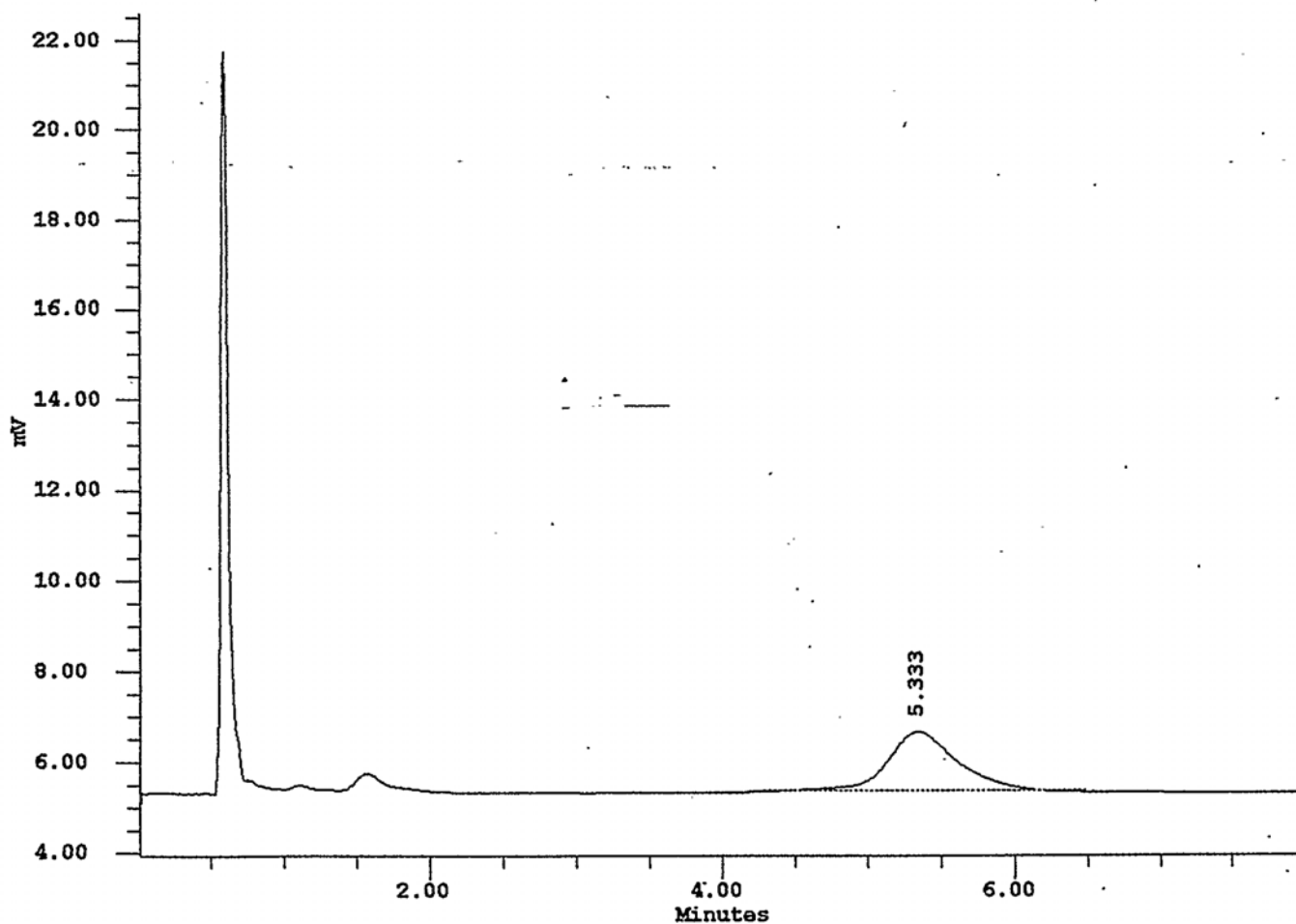
Date Acquired: 02/06/95 11:51 AM

Run Time: 8.0 min

Acq Meth Set: EDTA_METH_SET

Date Processed: 02/06/95 11:59 AM

Processing Method: EDTA_proc

*Peak Results*

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.333		44917	1310	100.00	100.00
2	CuEDTA	6.475					

For Sample: #7bloodst Vial: 7 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 12:09 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #7bloodst

Volume: 25.00

Channel: SIM Ch2

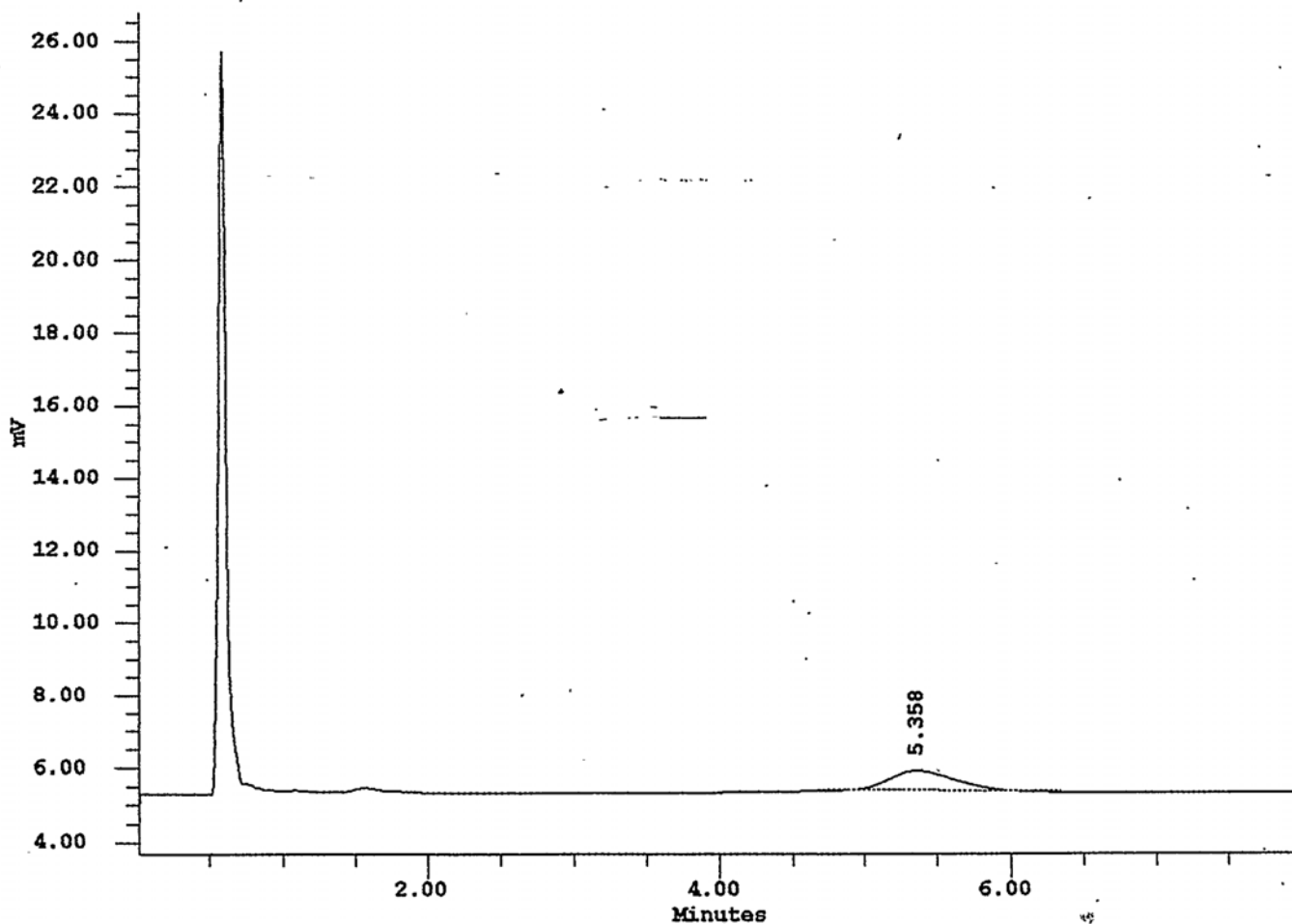
Run Time: 8.0 min

Date Acquired: 02/06/95 12:01 PM

Date Processed: 02/06/95 12:09 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.358		19014	560	100.00	100.00
2	CuEDTA	6.475					

For Sample: #8bloodst Vial: 8 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 12:19 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #8bloodst

Volume: 25.00

Channel: SIM Ch2

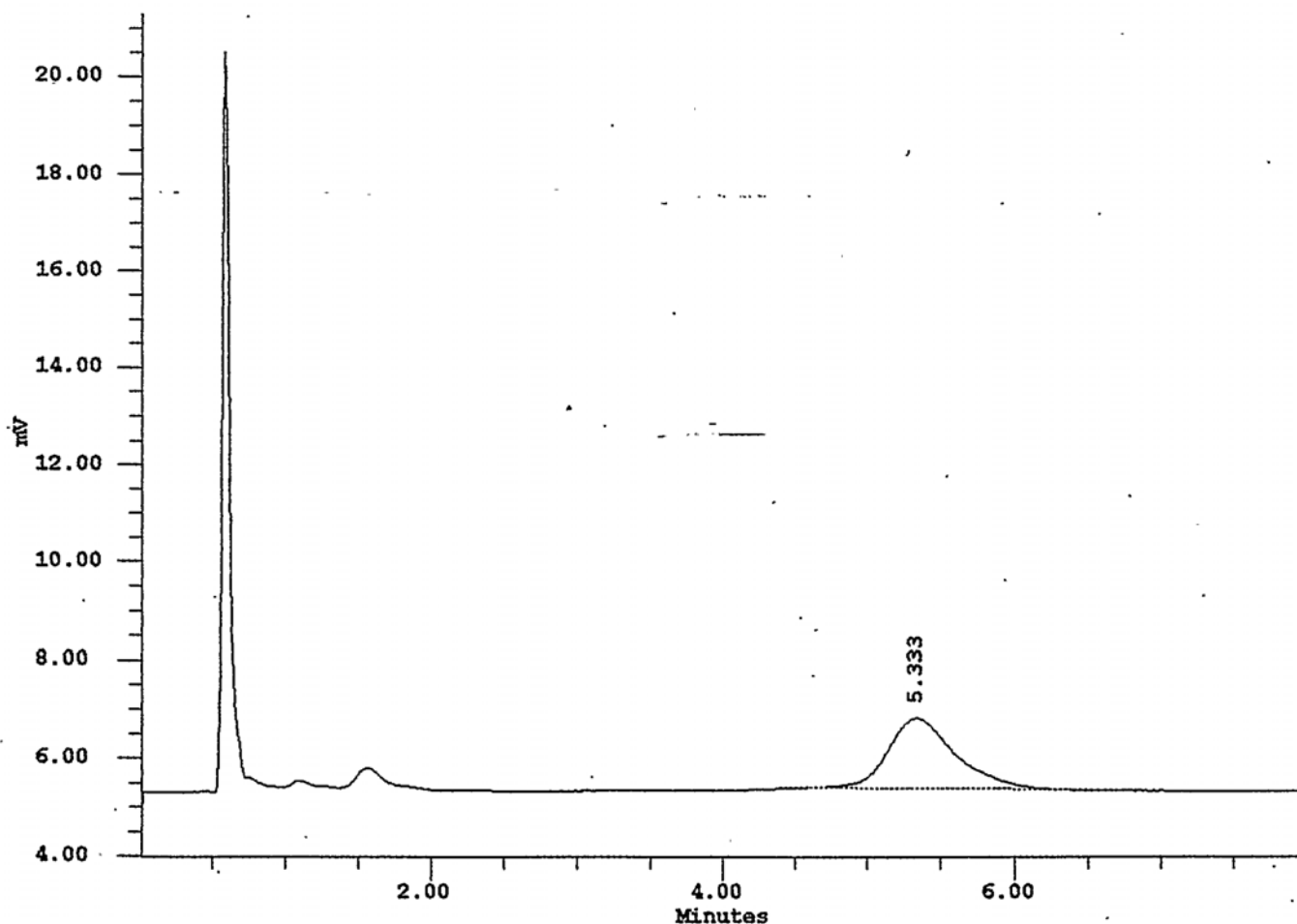
Date Acquired: 02/06/95 12:11 PM

Run Time: 8.0 min

Acq Meth Set: EDTA_METH_SET

Date Processed: 02/06/95 12:19 PM

Processing Method: EDTA_proc

*Peak Results*

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.333		47770	1460	100.00	100.00
2	CuEDTA	6.475					

For Sample: #9bloodst Vial: 9 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 12:29 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #9bloodst

Volume: 25.00

Channel: SIM Ch2

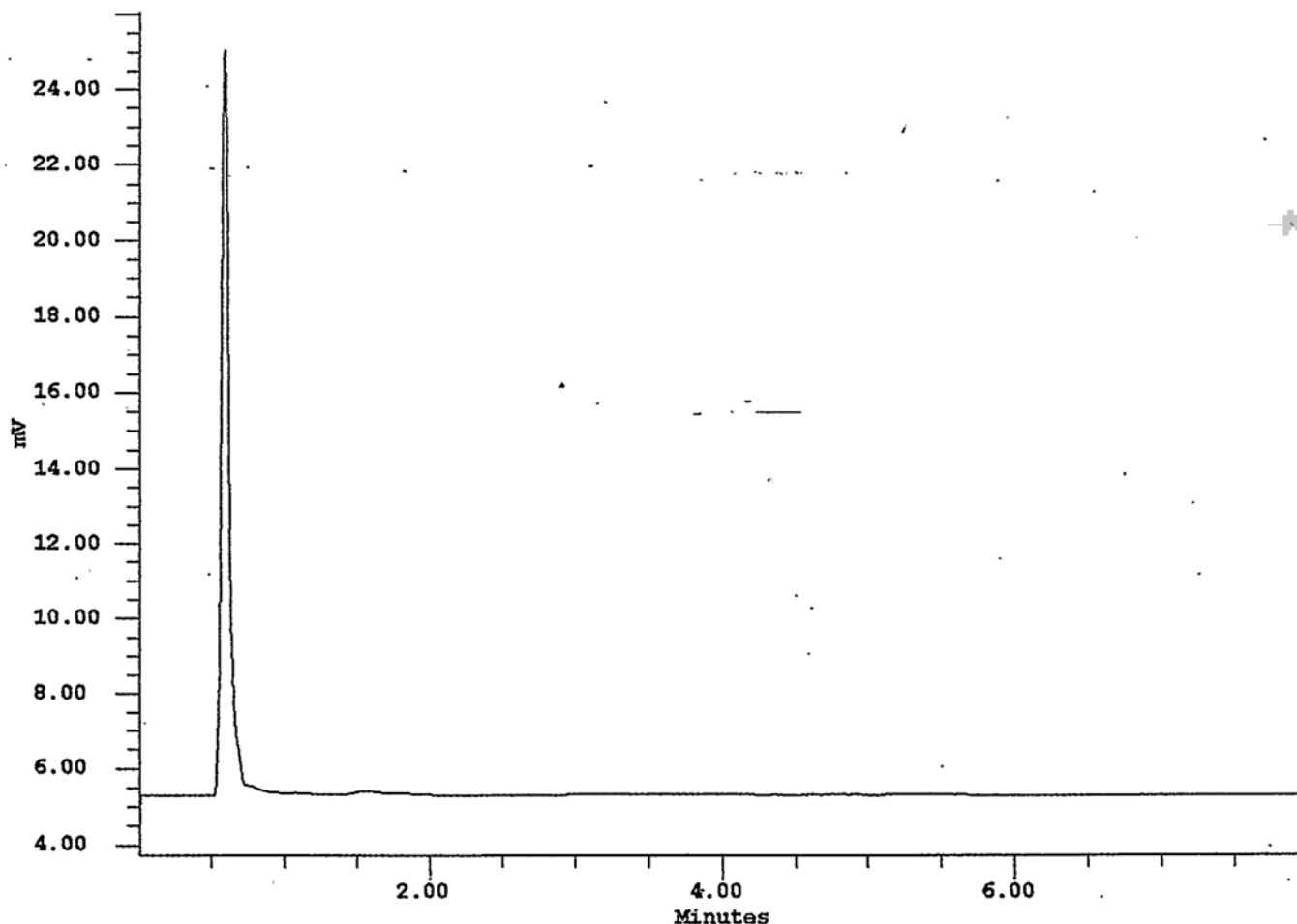
Run Time: 8.0 min

Date Acquired: 02/06/95 12:21 PM

Date Processed: 02/06/95 12:29 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #10bloodst Vial: 10 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 12:39 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #10bloodst

Volume: 25.00

Channel: SIM Ch2

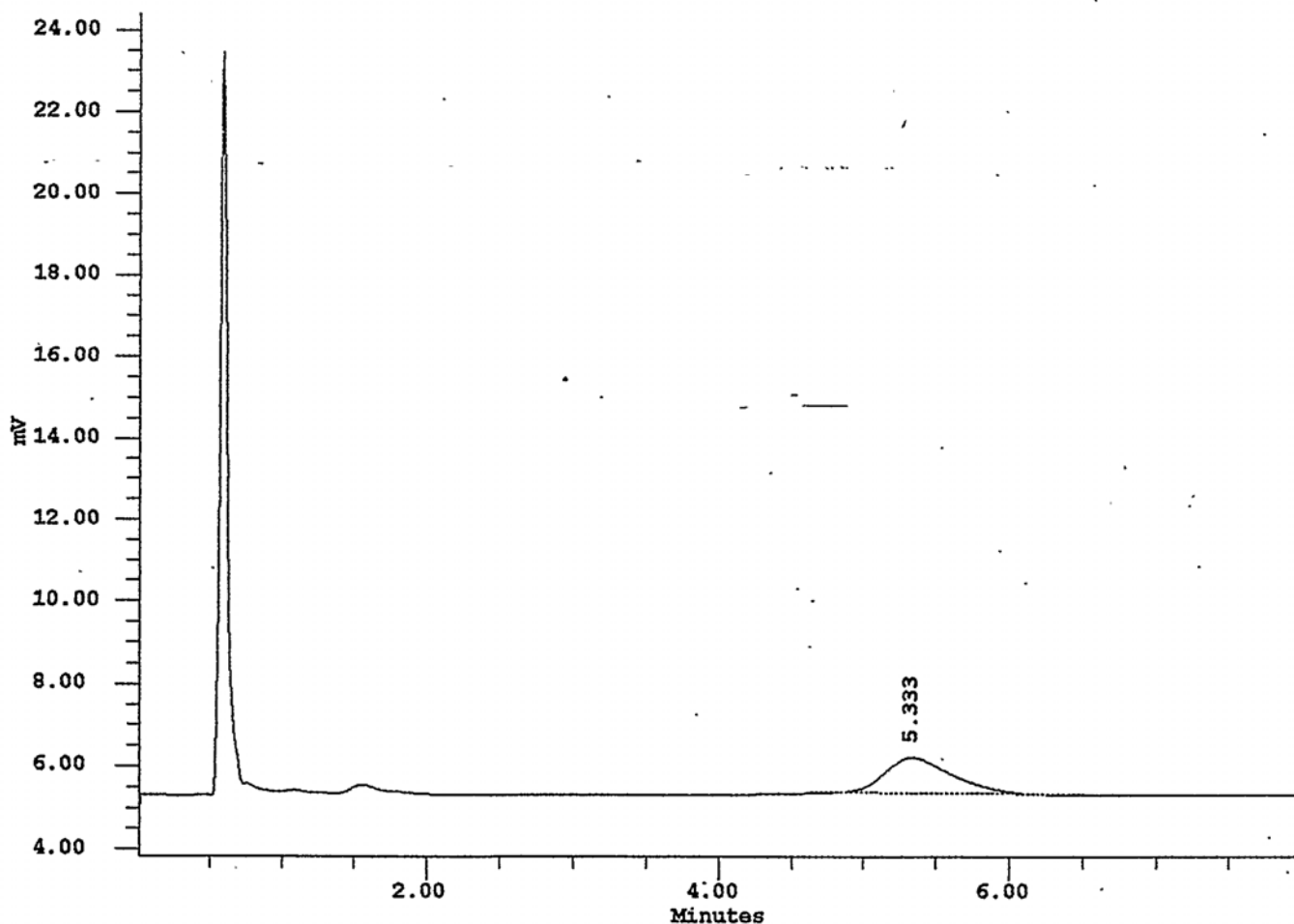
Date Acquired: 02/06/95 12:31 PM

Run Time: 8.0 min

Acq Meth Set: EDTA_METH_SET

Date Processed: 02/06/95 12:39 PM

Processing Method: EDTA_proc

*Peak Results*

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.333		29686	880	100.00	100.00
2	CuEDTA	6.475					

For Sample: 50ppmstd

Vial: 1 Inj: 1 Chan: SIM Ch2

Date Processed 02/06/95 12:49 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 50ppmstd

Volume: 25.00

Channel: SIM Ch2

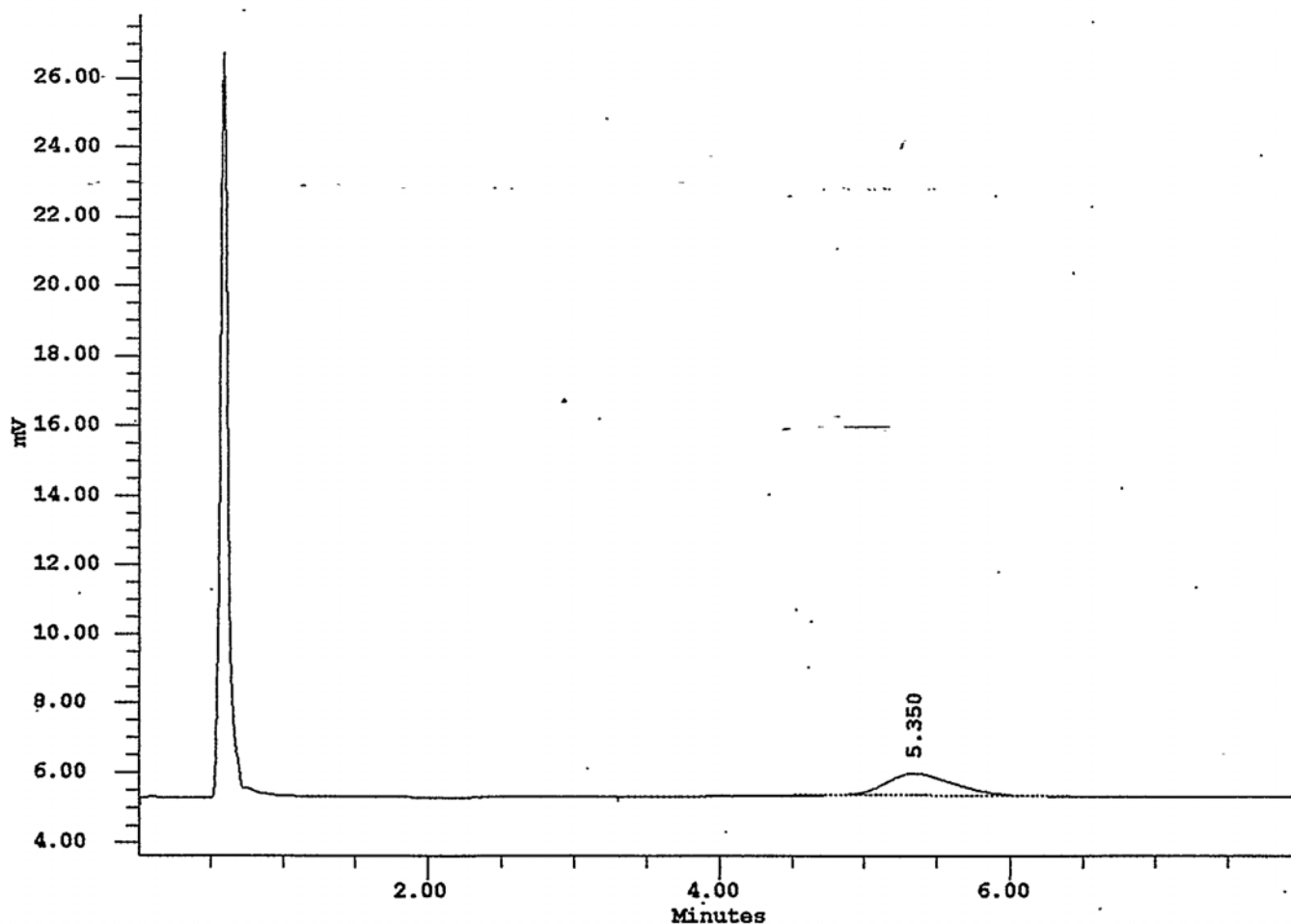
Date Acquired: 02/06/95 12:41 PM

Run Time: 8.0 min

Acq Meth Set: EDTA_METH_SET

Date Processed: 02/06/95 12:49 PM

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.350		22510	650	100.00	100.00
2	CuEDTA	6.475					

For Sample: blank

Vial: 2 Inj: 1 Chan: SIM Ch2

Date Processed 02/06/95 12:59 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: blank

Volume: 25.00

Channel: SIM Ch2

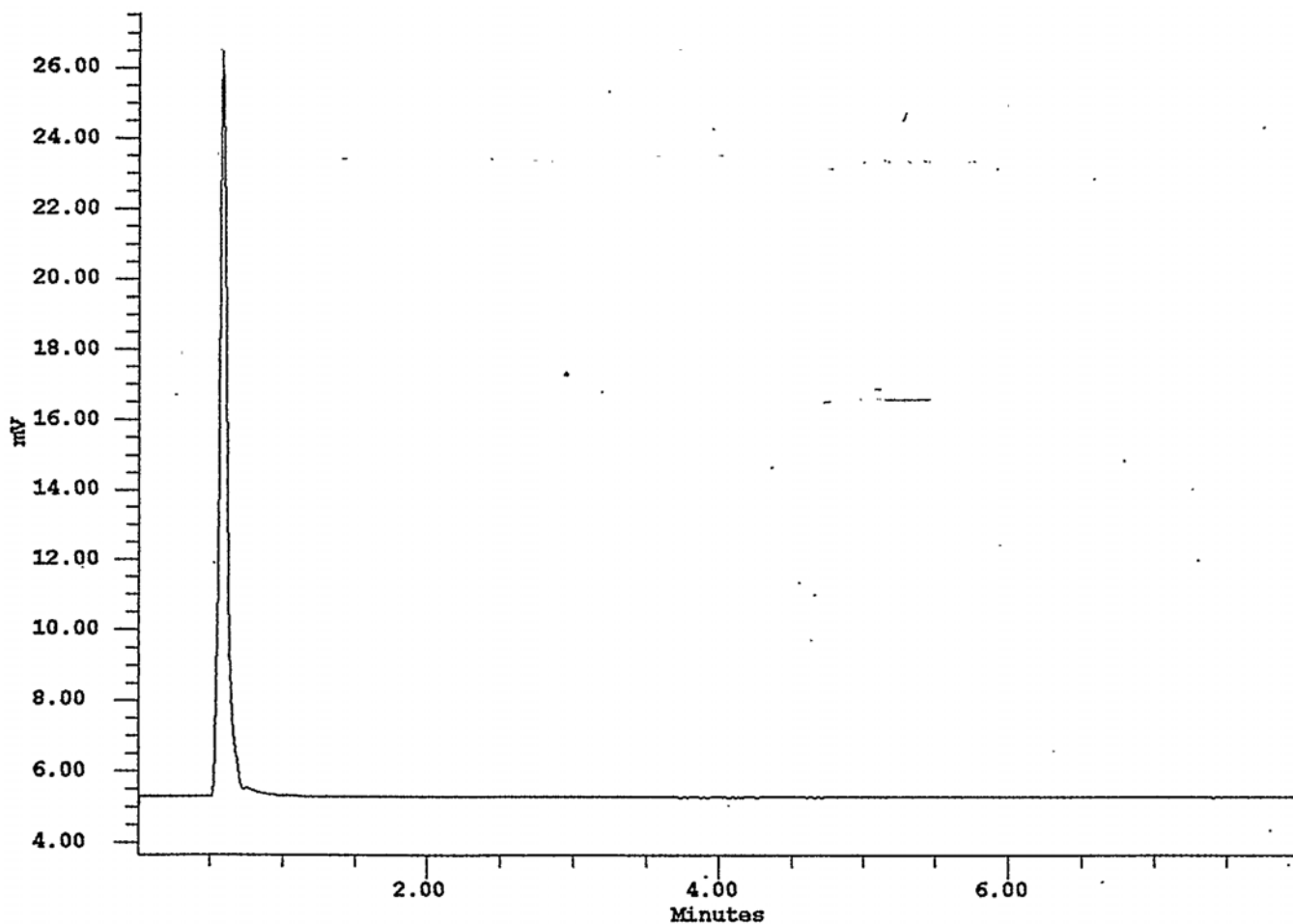
Date Acquired: 02/06/95 12:51 PM

Run Time: 8.0 min

Acq Meth Set: EDTA_METH_SET

Date Processed: 02/06/95 12:59 PM

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #1c

Vial: 5 Inj: 1 Chan: SIM Ch2

Date Processed 02/06/95 01:09 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #1c

Volume: 25.00

Channel: SIM Ch2

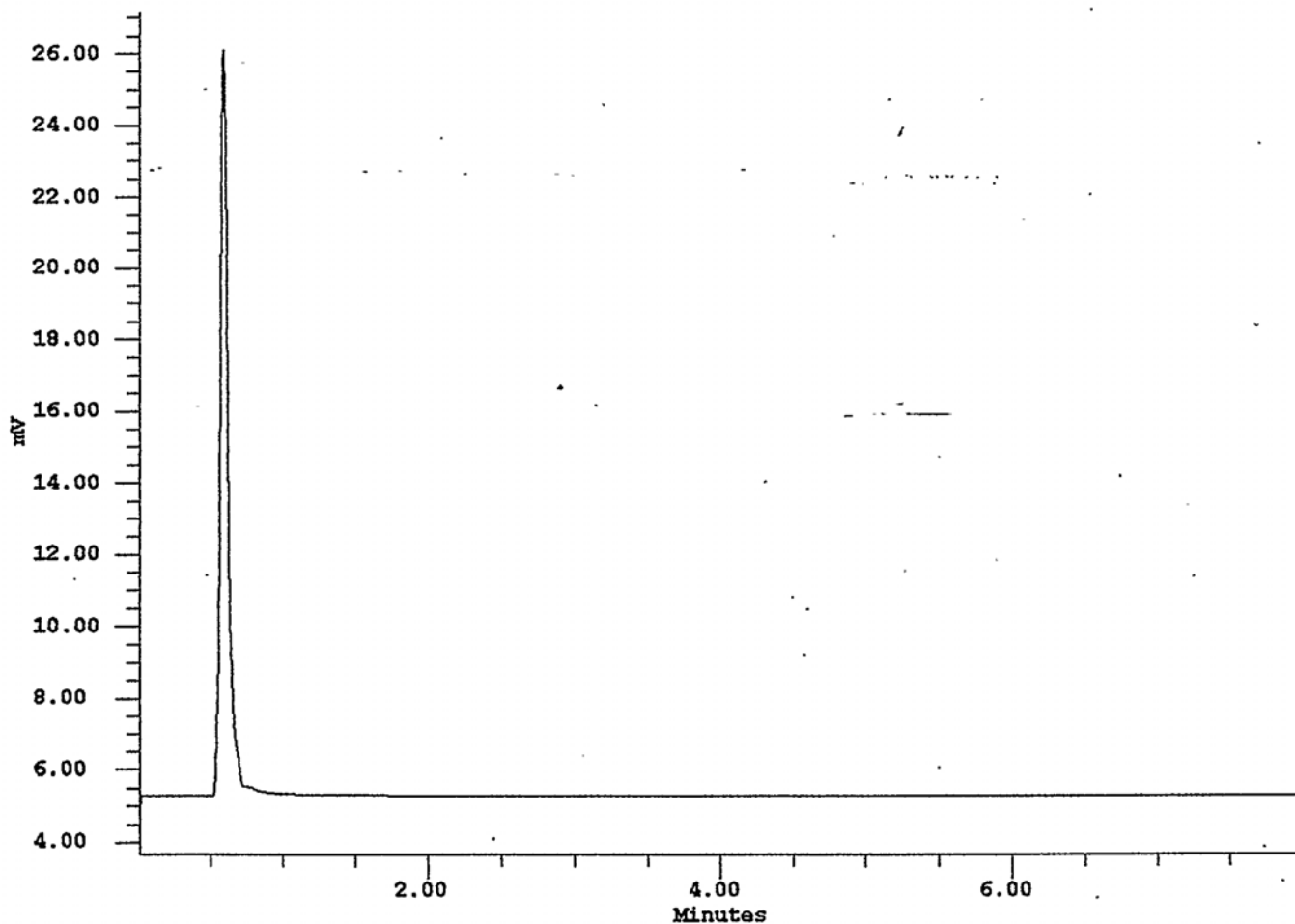
Run Time: 8.0 min

Date Acquired: 02/06/95 01:01 PM

Date Processed: 02/06/95 01:09 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #11bloodst Vial: 11 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 01:19 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #11bloodst

Volume: 25.00

Channel: SIM Ch2

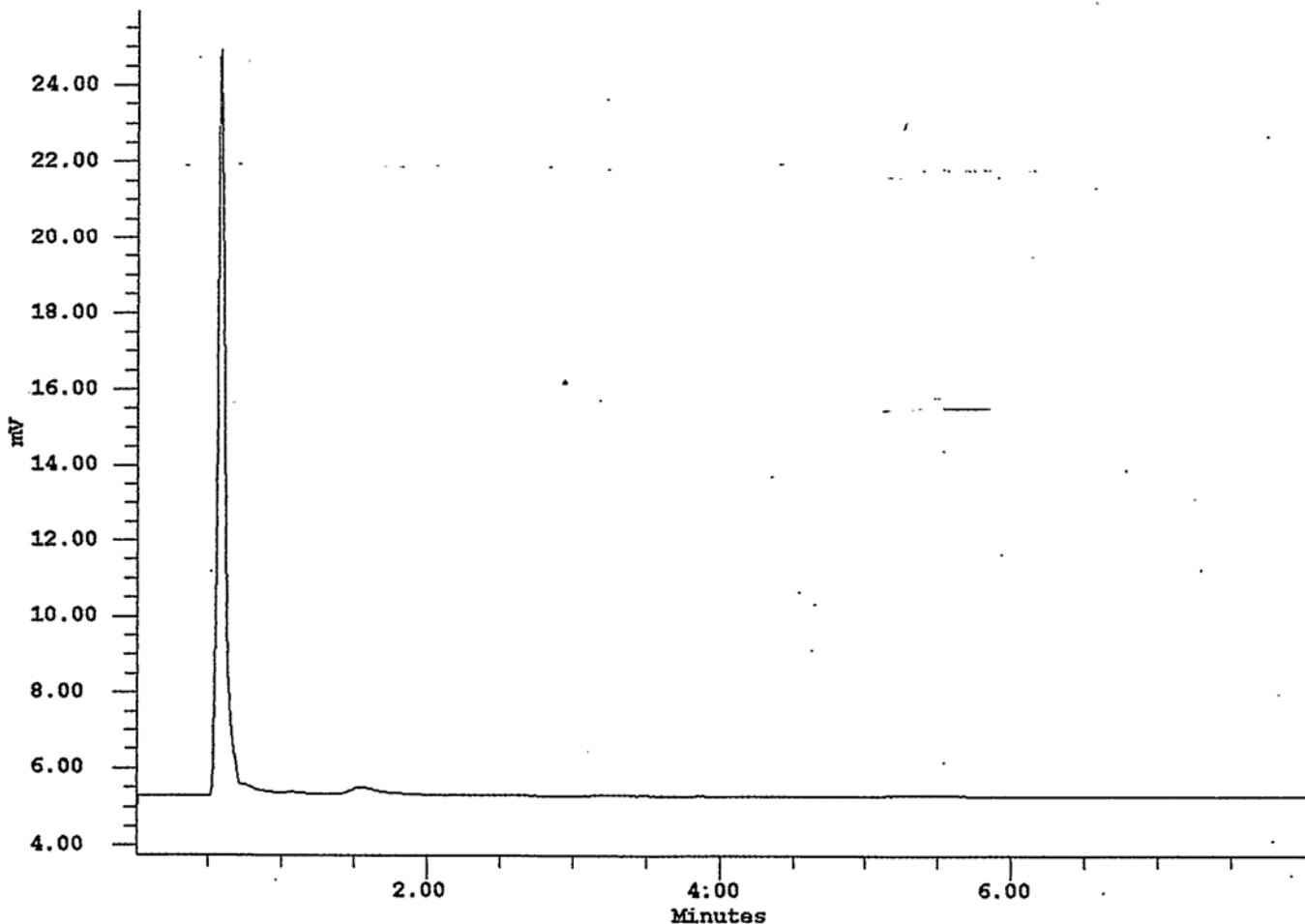
Date Acquired: 02/06/95 01:11 PM

Run Time: 8.0 min

Acq Meth Set: EDTA_METH_SET

Date Processed: 02/06/95 01:19 PM

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #12bloodst Vial: 12 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 01:29 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #12bloodst

Volume: 25.00

Channel: SIM Ch2

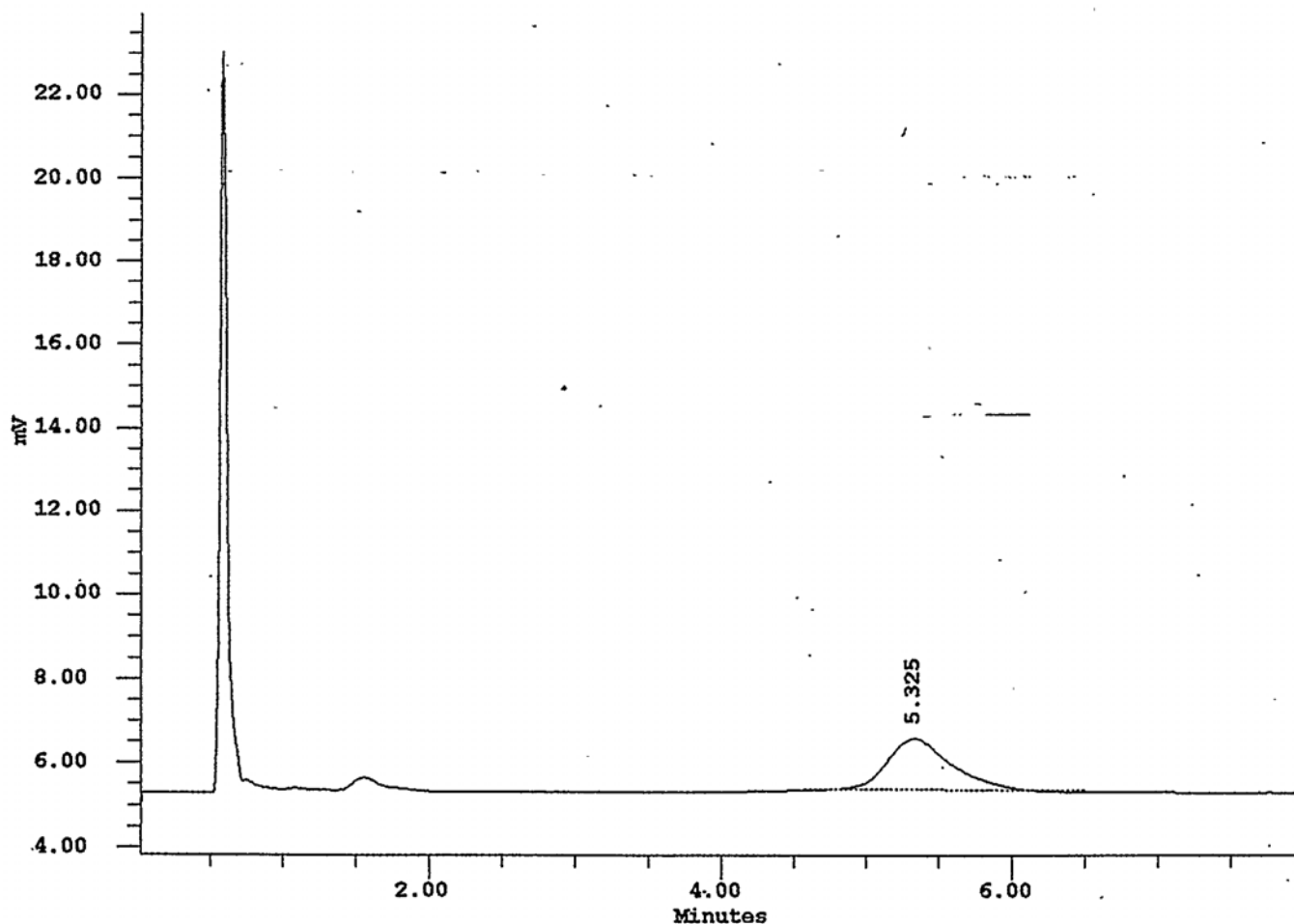
Date Acquired: 02/06/95 01:21 PM

Run Time: 8.0 min

Acq Meth Set: EDTA_METH_SET

Date Processed: 02/06/95 01:29 PM

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.325		39450	1225	100.00	100.00
2	CuEDTA	6.475					

For Sample: #13bloodst Vial: 13 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 01:39 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #13bloodst

Volume: 25.00

Channel: SIM Ch2

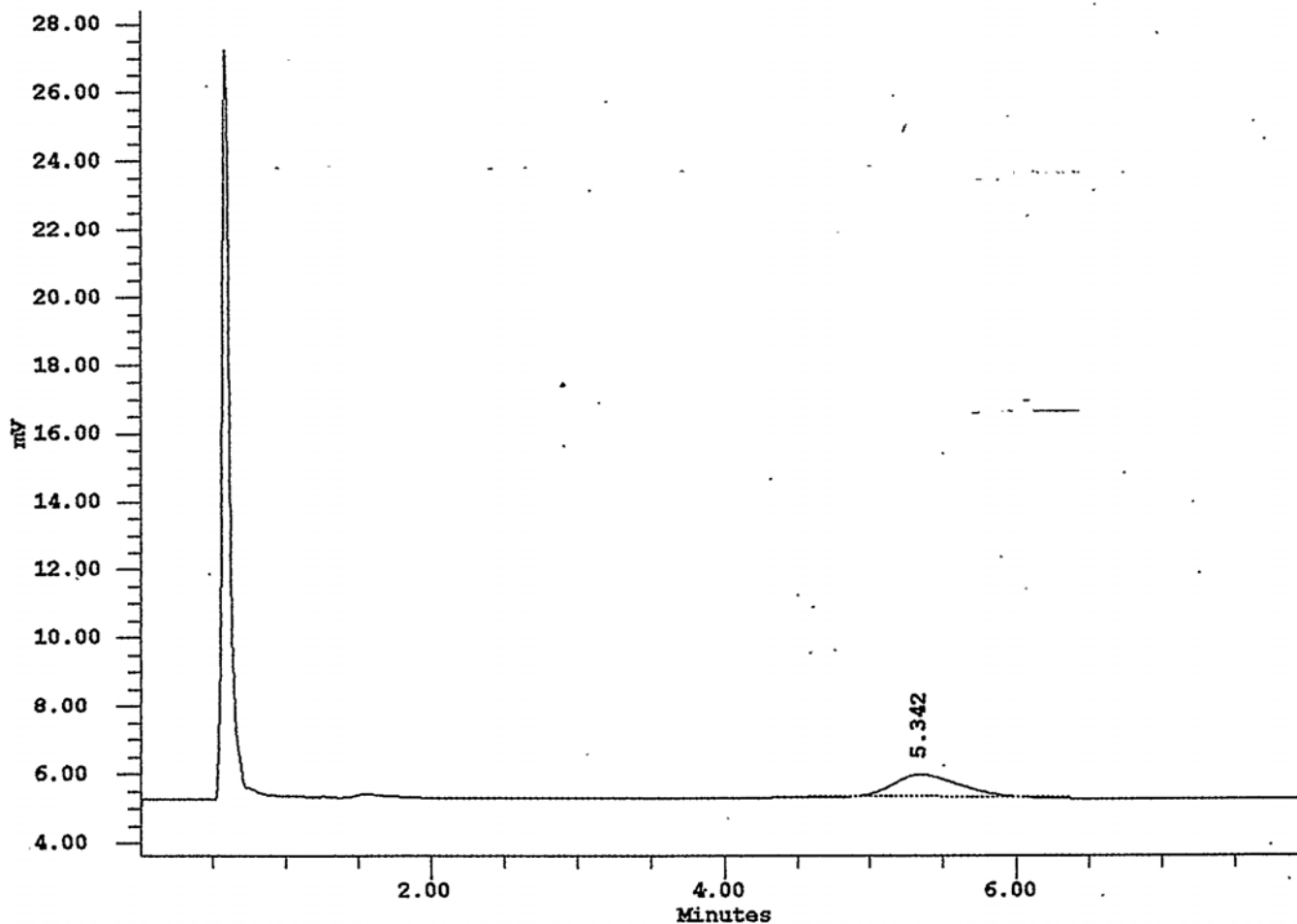
Run Time: 8.0 min

Date Acquired: 02/06/95 01:31 PM

Date Processed: 02/06/95 01:39 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.342		22588	668	100.00	100.00
2	CuEDTA	6.475					

For Sample: #14bloodst Vial: 14 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 01:49 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #14bloodst

Volume: 25.00

Channel: SIM Ch2

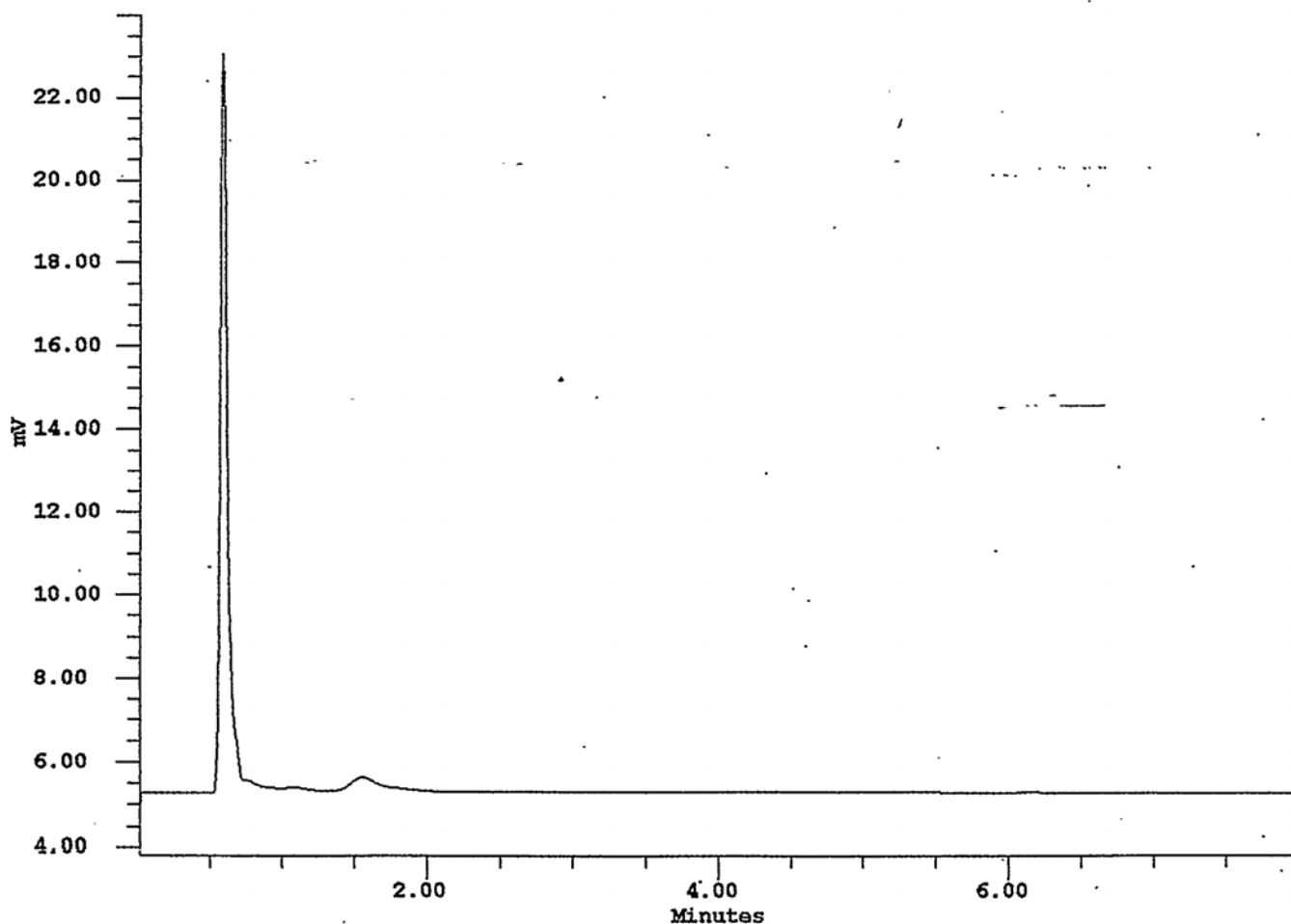
Date Acquired: 02/06/95 01:41 PM

Run Time: 8.0 min

Acq Meth Set: EDTA_METH_SET

Date Processed: 02/06/95 01:49 PM

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #15bloodst Vial: 15 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 02:00 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #15bloodst

Volume: 25.00

Channel: SIM Ch2

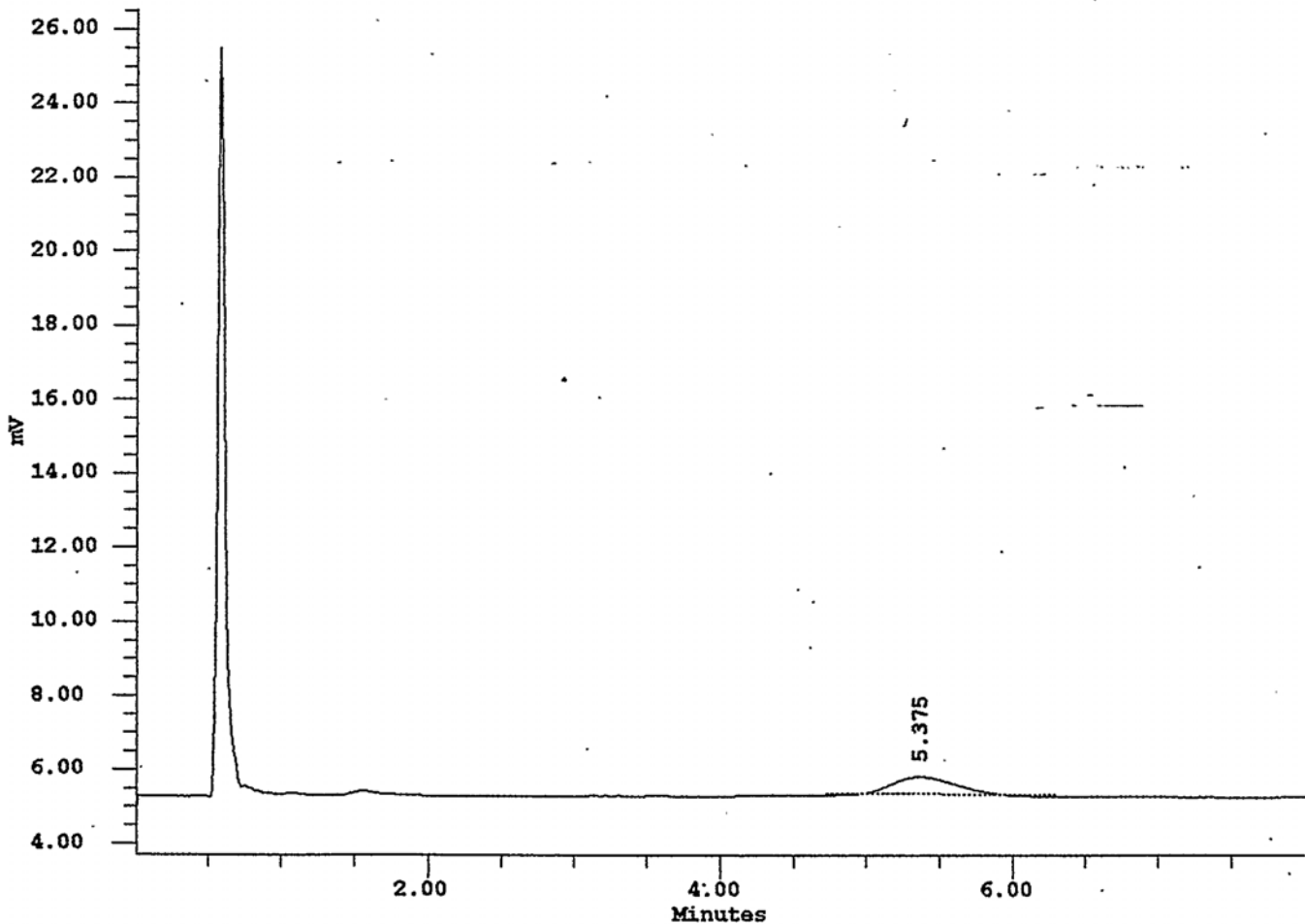
Date Acquired: 02/06/95 01:51 PM

Run Time: 8.0 min

Date Processed: 02/06/95 02:00 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.375		16782	510	100.00	100.00
2	CuEDTA	6.475					

For Sample: 50ppmedta

Vial: 1 Inj: 1 Chan: SIM Ch2

Date Processed 02/06/95 02:10 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 50ppmedta

Volume: 25.00

Channel: SIM Ch2

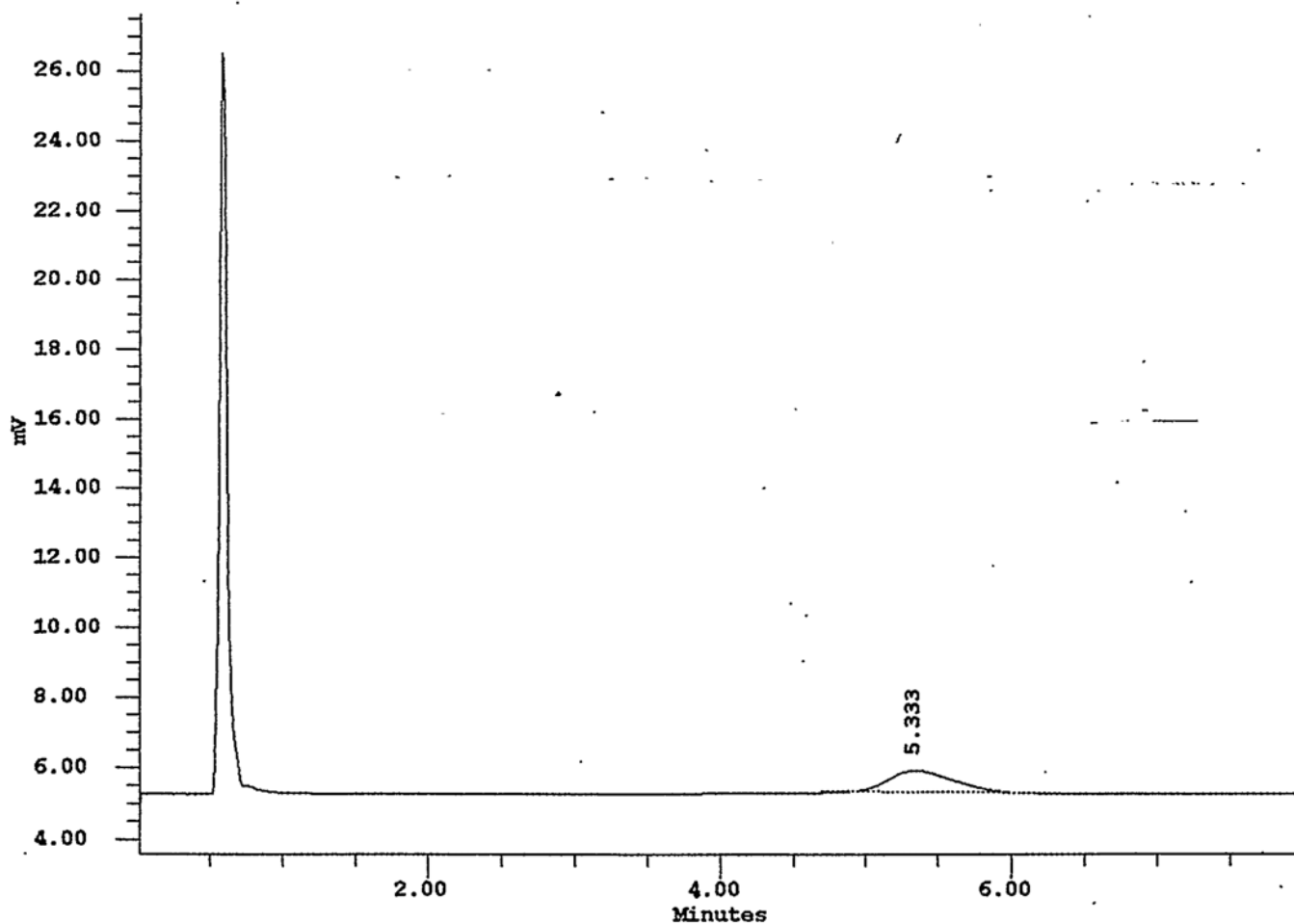
Run Time: 8.0 min

Date Acquired: 02/06/95 02:01 PM

Date Processed: 02/06/95 02:10 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc

*Peak Results*

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.333		21092	635	100.00	100.00
2	CuEDTA	6.475					

For Sample: blank

Vial: 2 Inj: 1 Chan: SIM Ch2

Date Processed 02/06/95 02:20 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: blank

Volume: 25.00

Channel: SIM Ch2

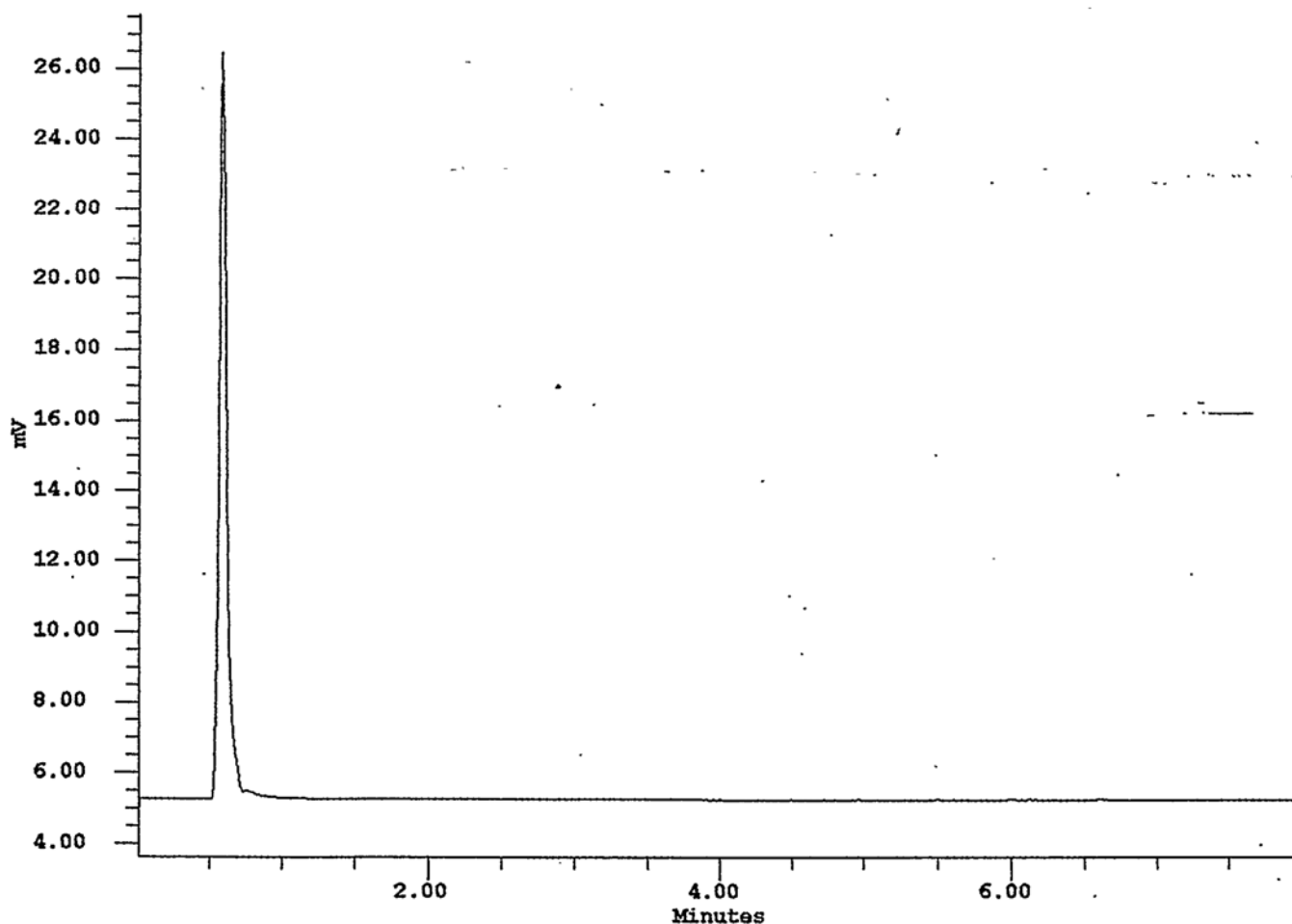
Date Acquired: 02/06/95 02:11 PM

Run Time: 8.0 min

Acq Meth Set: EDTA_METH_SET

Date Processed: 02/06/95 02:20 PM

Processing Method: EDTA_proc

*Peak Results*

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #9c

Vial: 21 Inj: 1 Chan: SIM Ch2

Date Processed 02/06/95 02:30 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #9c

Volume: 25.00

Channel: SIM Ch2

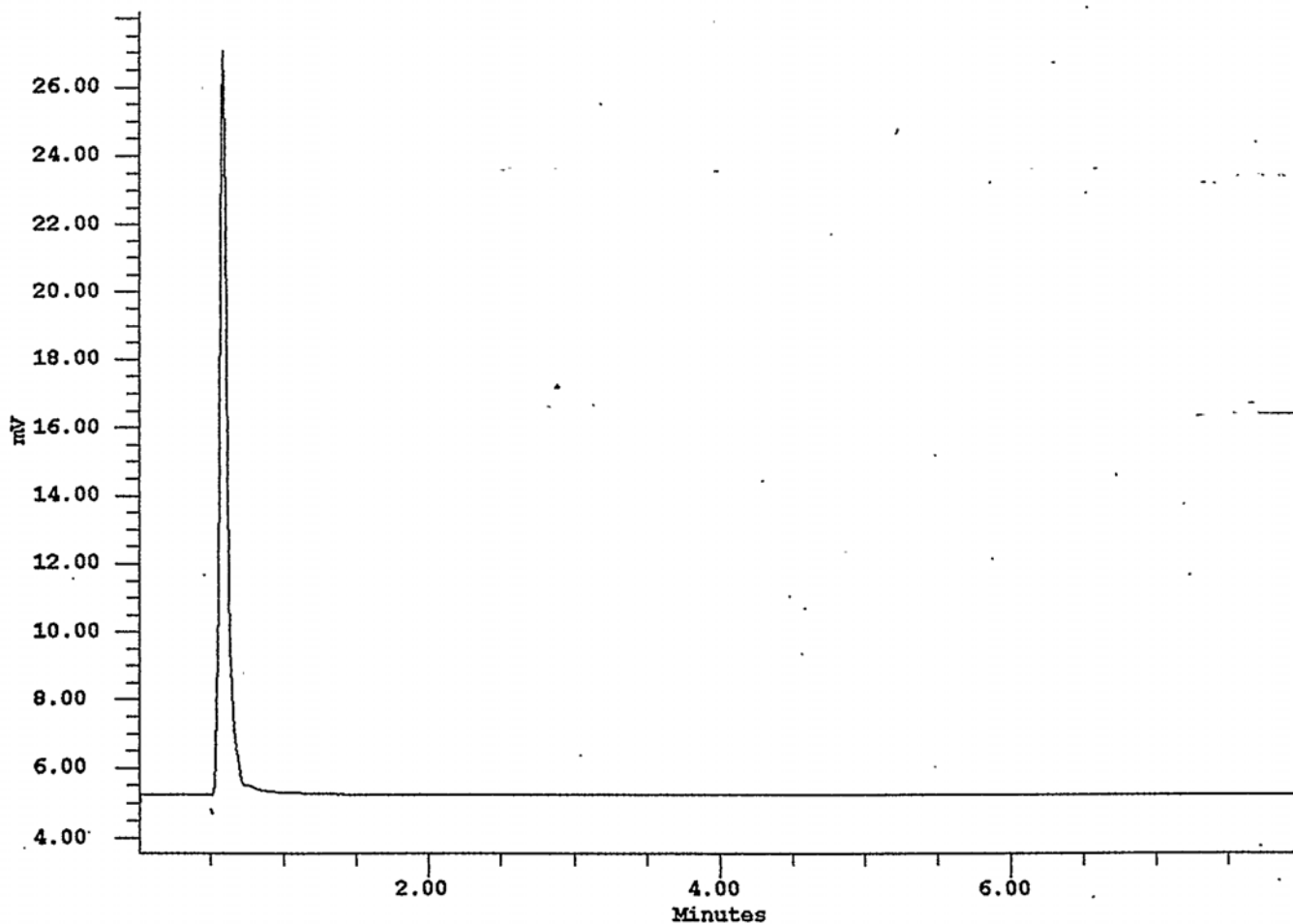
Run Time: 8.0 min

Date Acquired: 02/06/95 02:22 PM

Date Processed: 02/06/95 02:30 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #16bloodst Vial: 16 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 02:40 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #16bloodst

Volume: 25.00

Channel: SIM Ch2

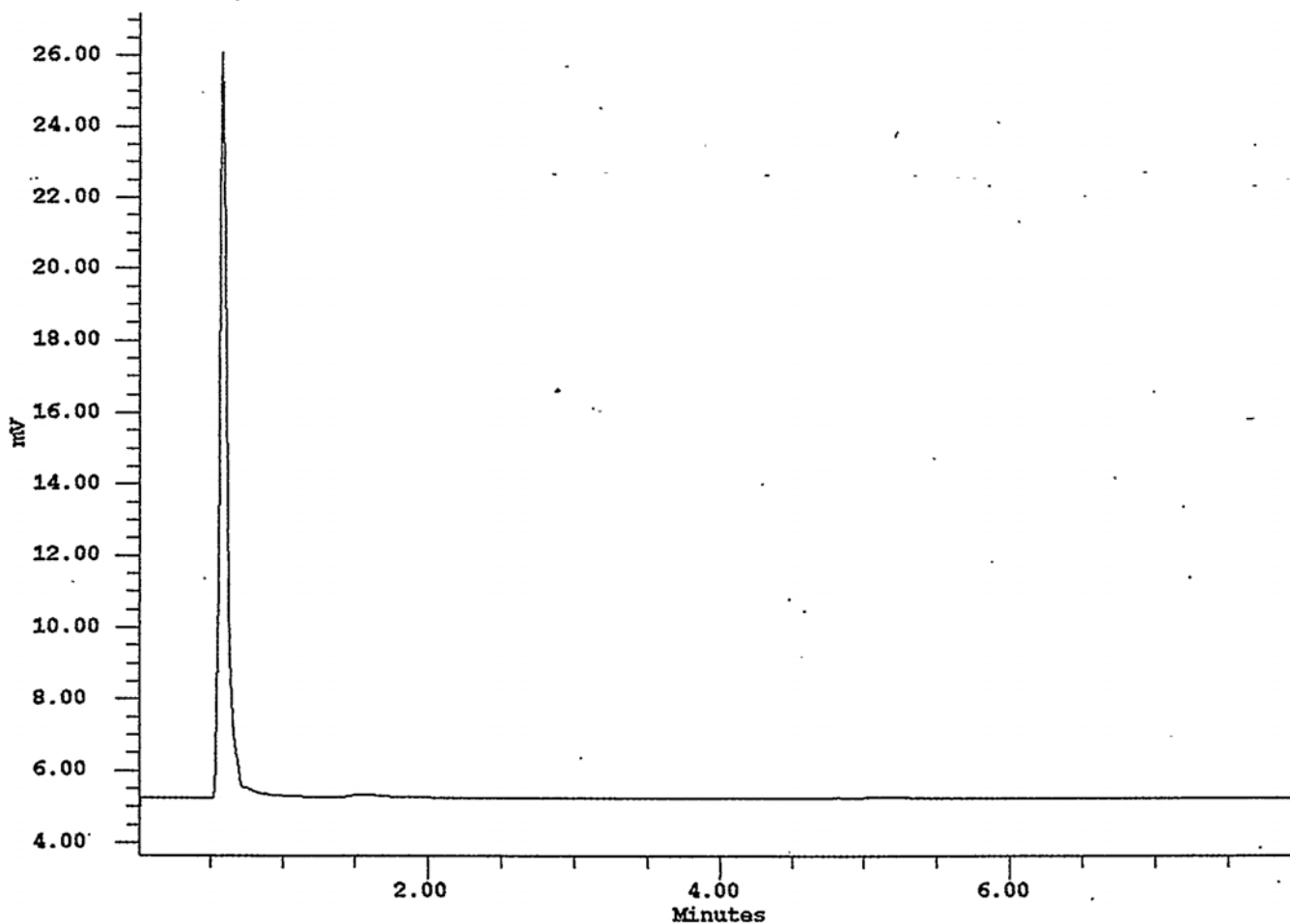
Run Time: 8.0 min

Date Acquired: 02/06/95 02:32 PM

Date Processed: 02/06/95 02:40 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



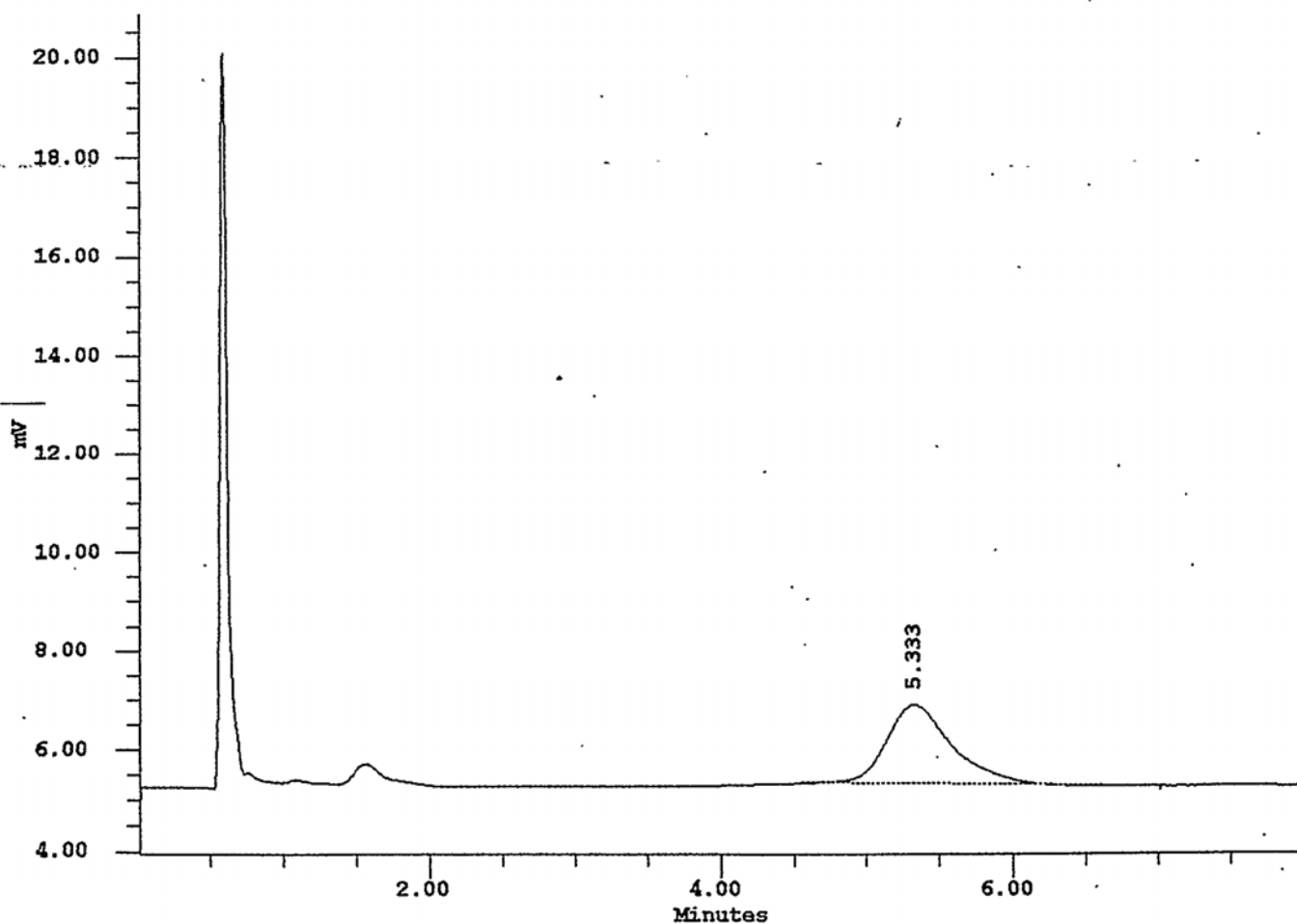
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #17bloodst Vial: 17 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 02:50 PM

Project Name: cations_md
 Sample Name: #17bloodst
 Channel: SIM Ch2
 Date Acquired: 02/06/95 02:42 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/06/95 02:50 PM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.333		50405	1590	100.00	100.00
2	CuEDTA	6.475					

For Sample: #18bloodst Vial: 18 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 03:00 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #18bloodst

Volume: 25.00

Channel: SIM Ch2

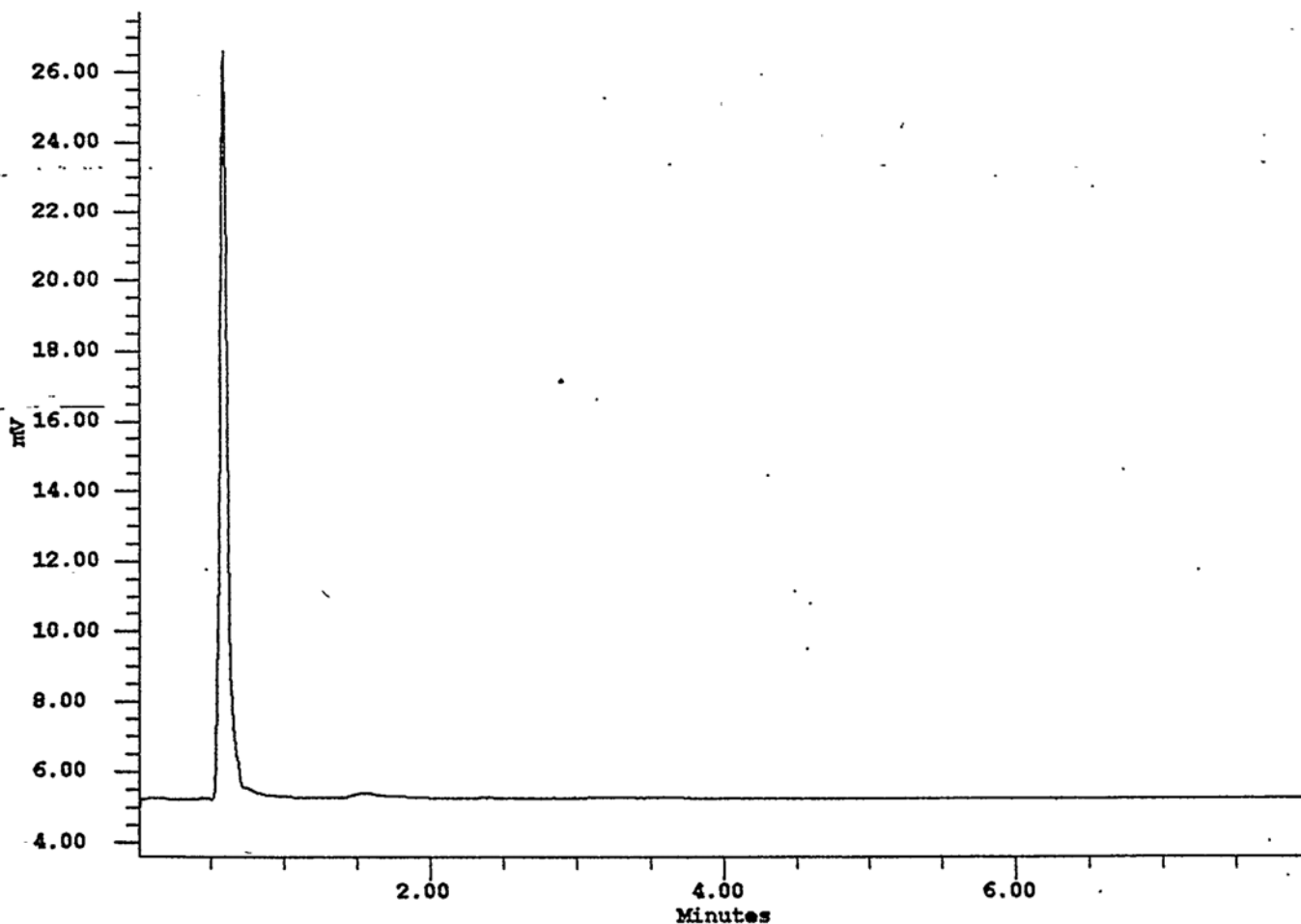
Run Time: 8.0 min

Date Acquired: 02/06/95 02:52 PM

Date Processed: 02/06/95 03:00 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #19bloodst Vial: 19 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 03:10 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #19bloodst

Volume: 25.00

Channel: SIM Ch2

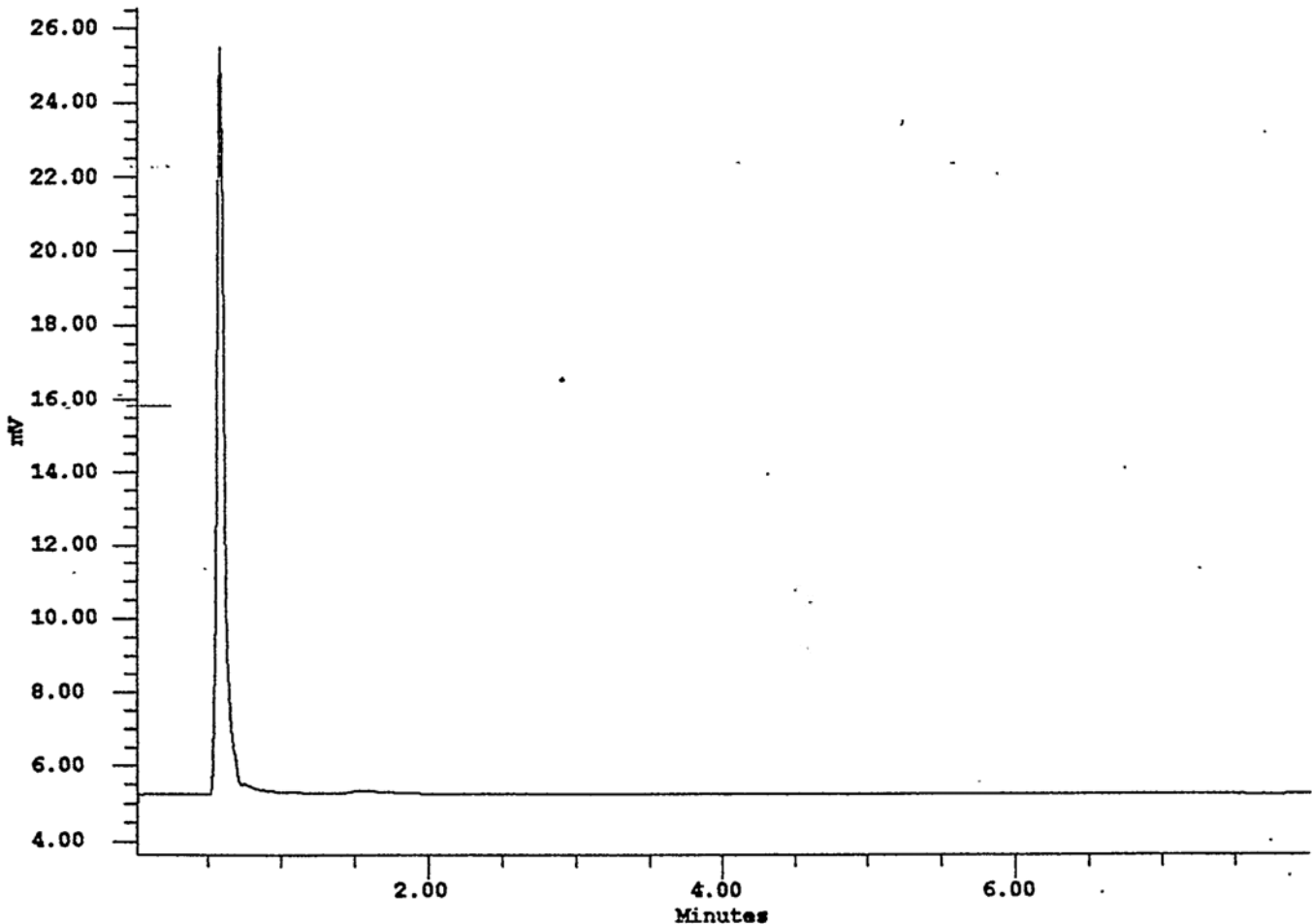
Date Acquired: 02/06/95 03:02 PM

Run Time: 8.0 min

Date Processed: 02/06/95 03:10 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



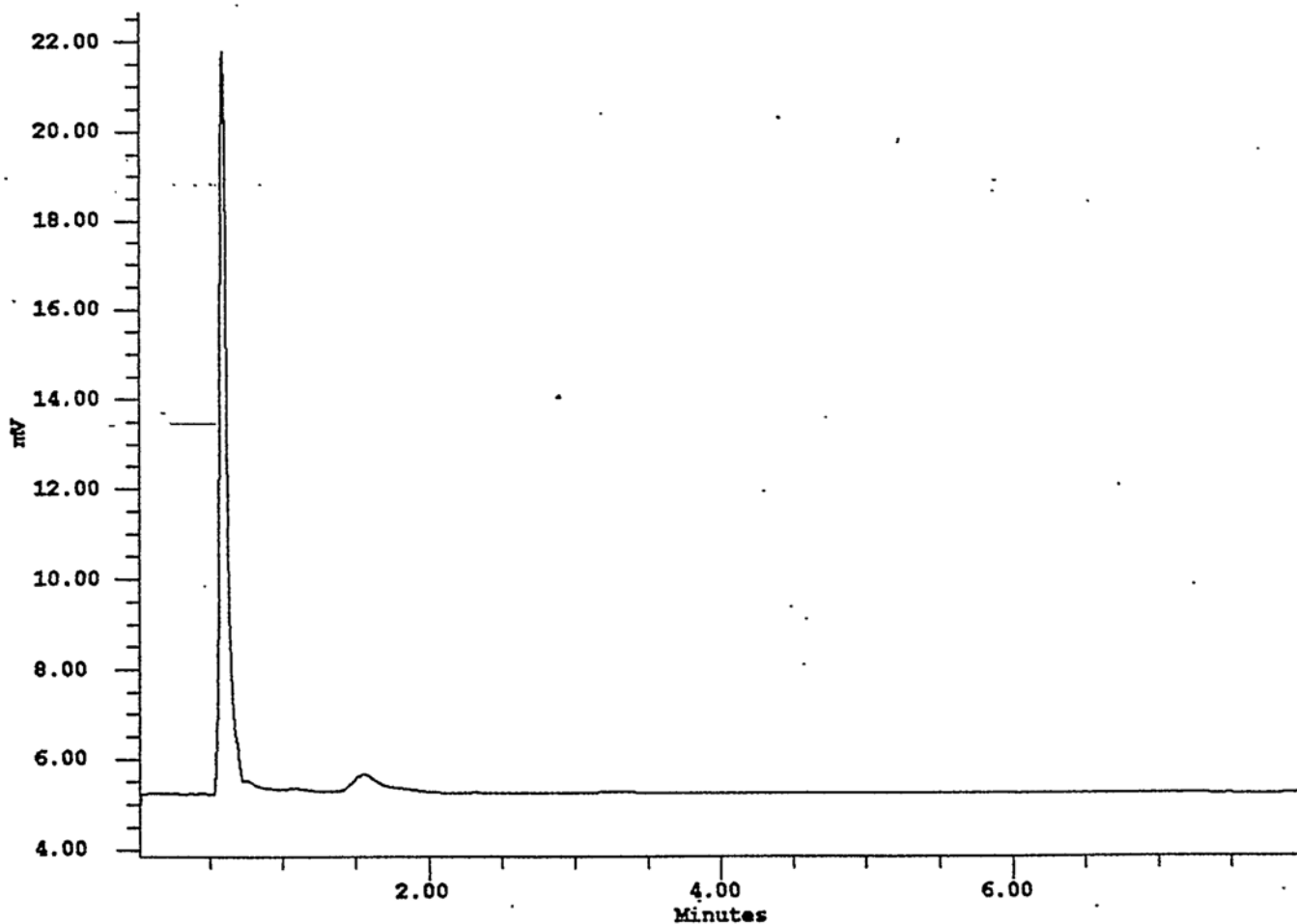
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: #20bloodst Vial: 20 Inj: 1 Chan: SIM Ch2 Date Processed 02/06/95 03:20 PM

Project Name: cations_md
 Sample Name: #20bloodst
 Channel: SIM Ch2
 Date Acquired: 02/06/95 03:12 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/06/95 03:20 PM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.475					

For Sample: 50ppmst

Vial: 1 Inj: 1 Chan: SIM Ch2

Date Processed 02/06/95 03:31 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 50ppmst

Volume: 25.00

Channel: SIM Ch2

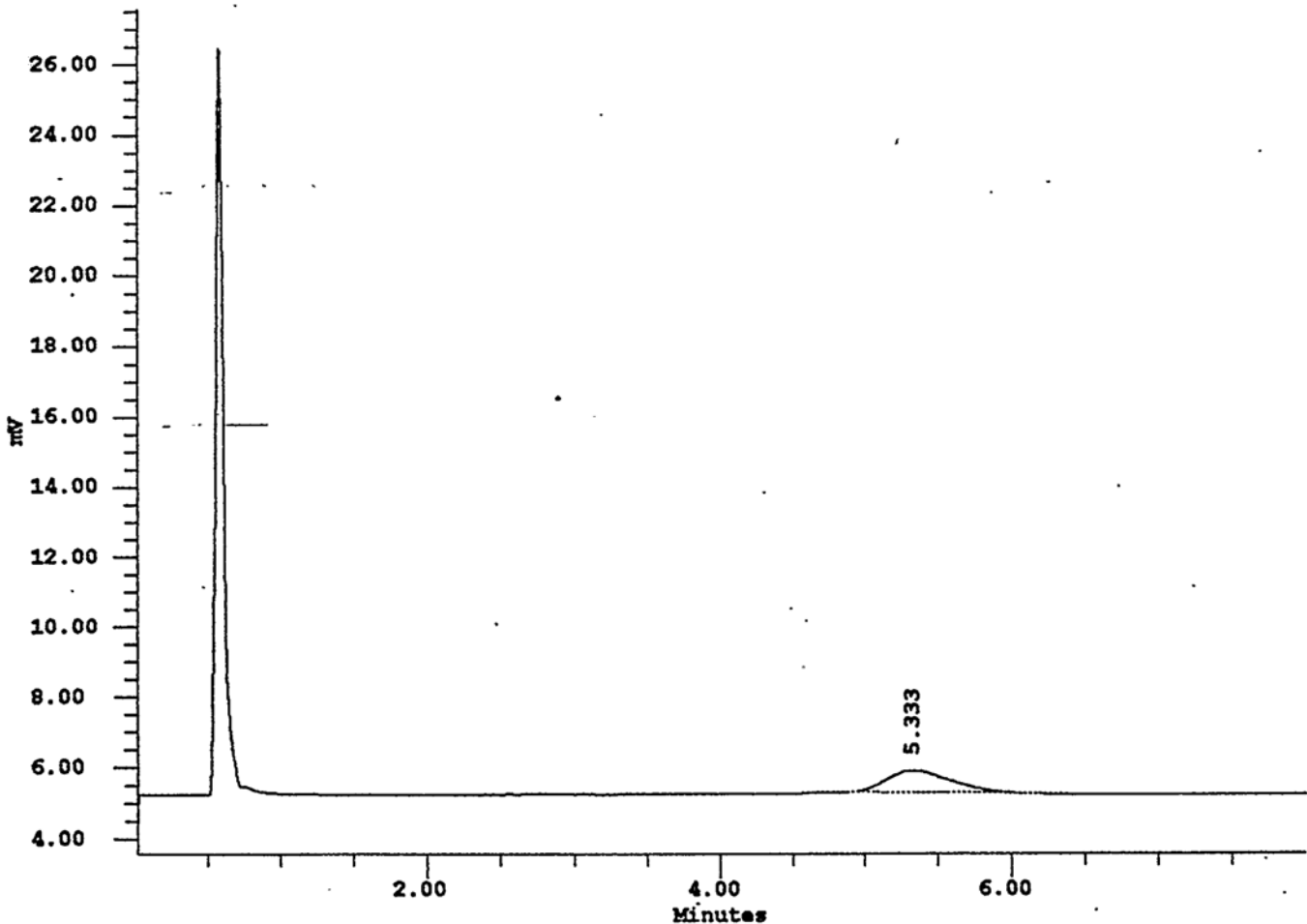
Run Time: 8.0 min

Date Acquired: 02/06/95 03:22 PM

Date Processed: 02/06/95 03:31 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		5.333		21072	634	100.00	100.00
2	CuEDTA	6.475					

For Sample: 50ppmstd Vial: 1 Inj: 1 Chan: SIM Ch2 Date Processed 02/09/95 11:38 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 50ppmstd

Volume: 25.00

Channel: SIM Ch2

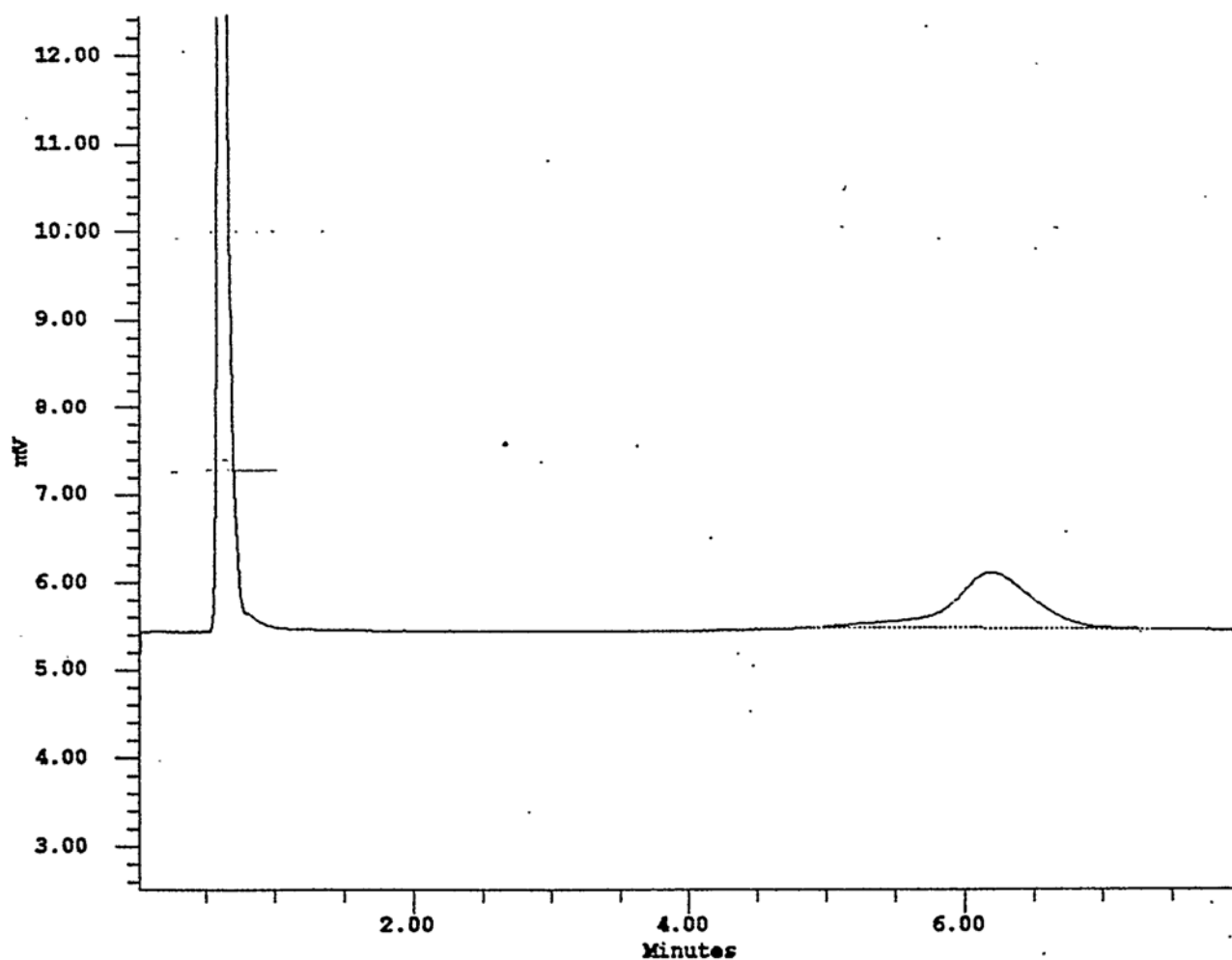
Run Time: 8.0 min

Date Acquired: 02/08/95 02:24 PM

Date Processed: 02/09/95 11:38 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					
2		6.200		27213	644	100.00	100.00

For Sample: b lank

Vial: 2 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:38 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: b lank

Volume: 25.00

Channel: SIM Ch2

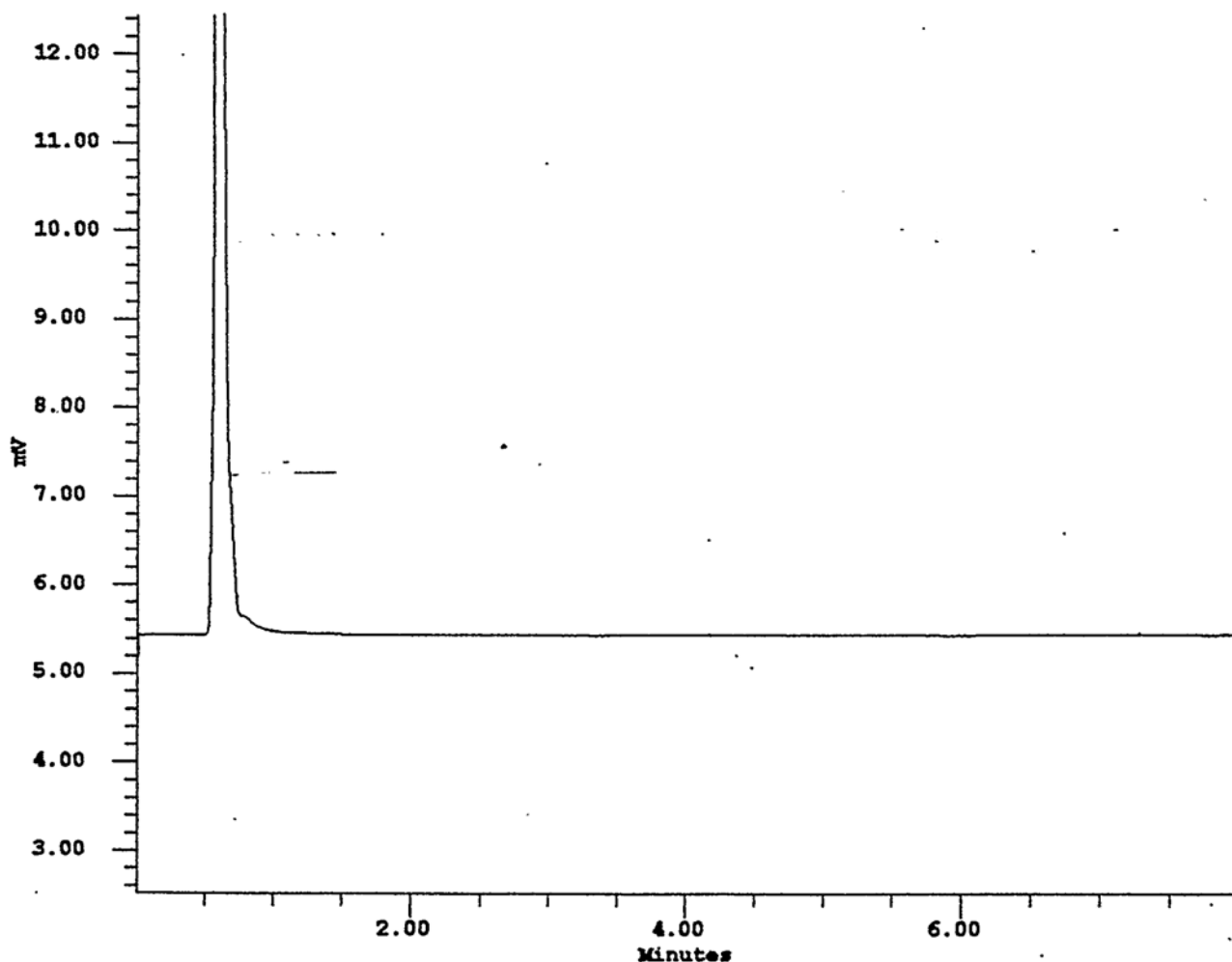
Date Acquired: 02/08/95 02:34 PM

Run Time: 8.0 min

Date Processed: 02/09/95 11:38 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc

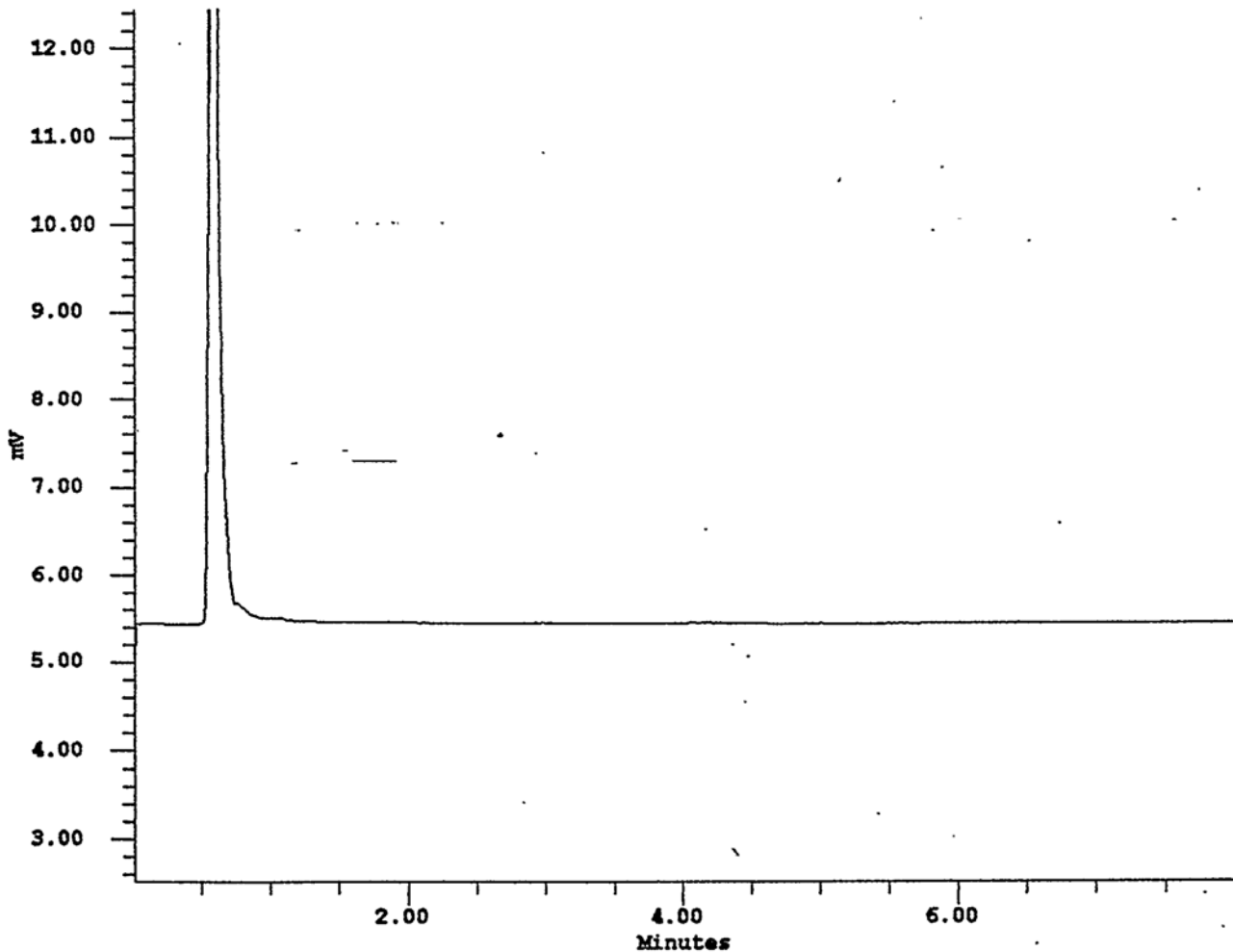


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: control 23c Vial: 3 Inj: 1 Chan: SIM Ch2 Date Processed 02/09/95 11:38 AM

Project Name:	cations_md	Sample Type:	Unknown
Sample Name:	control 23c	Volume:	25.00
Channel:	SIM Ch2	Run Time:	8.0 min
Date Acquired:	02/08/95 02:44 PM	Date Processed:	02/09/95 11:38 AM
Acq Meth Set:	EDTA_METH_SET		
Processing Method:	EDTA_proc		



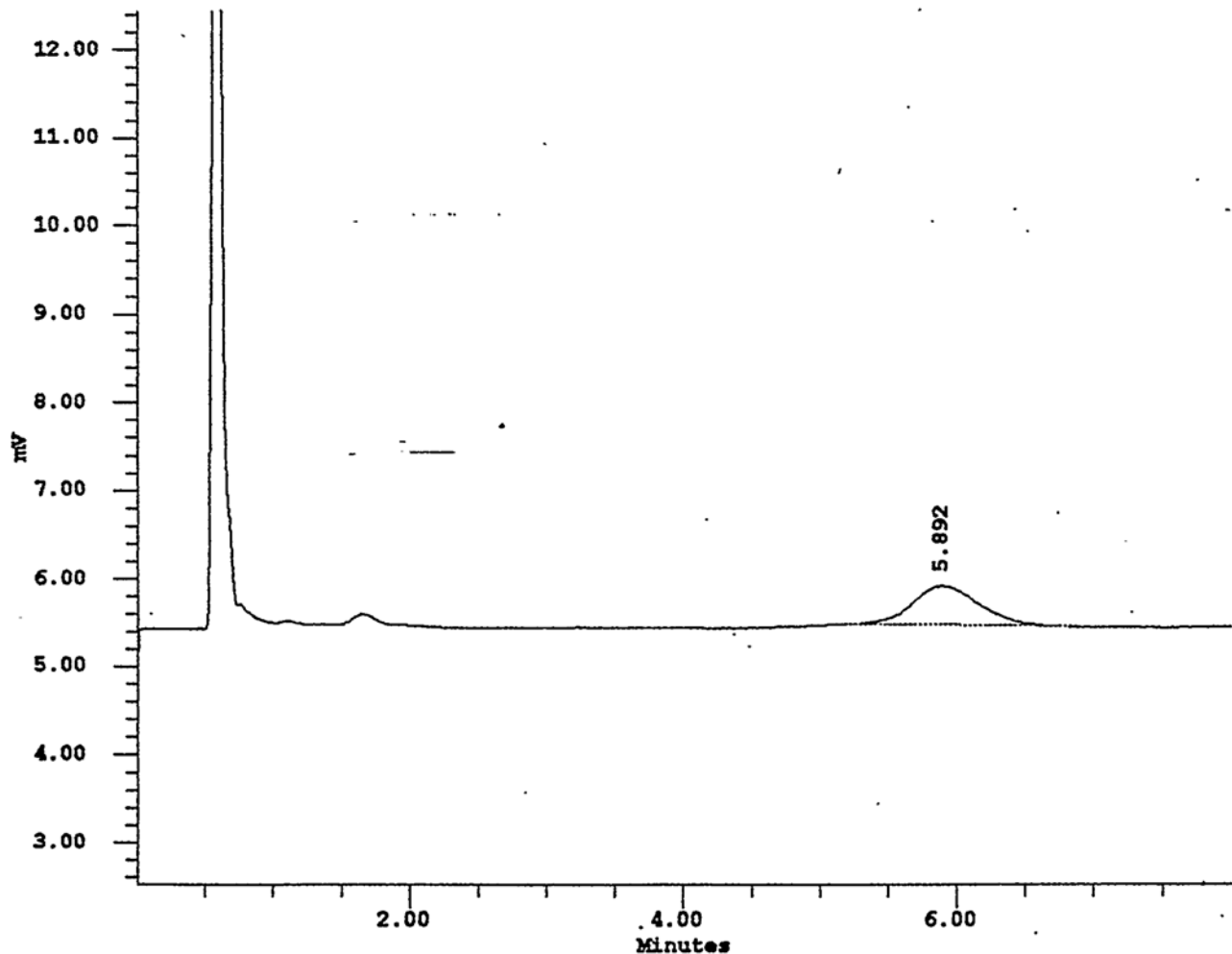
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: #21bloodst Vial: 21 Inj: 1 Chan: SIM.Ch2 Date Processed 02/09/95 11:37 AM

Project Name: cations_md
 Sample Name: #21bloodst
 Channel: SIM Ch2
 Date Acquired: 02/08/95 02:55 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/09/95 11:37 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.892		15826	452	100.00	100.00

For Sample: #22bloodst Vial: 22 Inj: 1 Chan: SIM Ch2 Date Processed 02/09/95 11:37 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: #22bloodst

Volume: 25.00

Channel: SIM Ch2

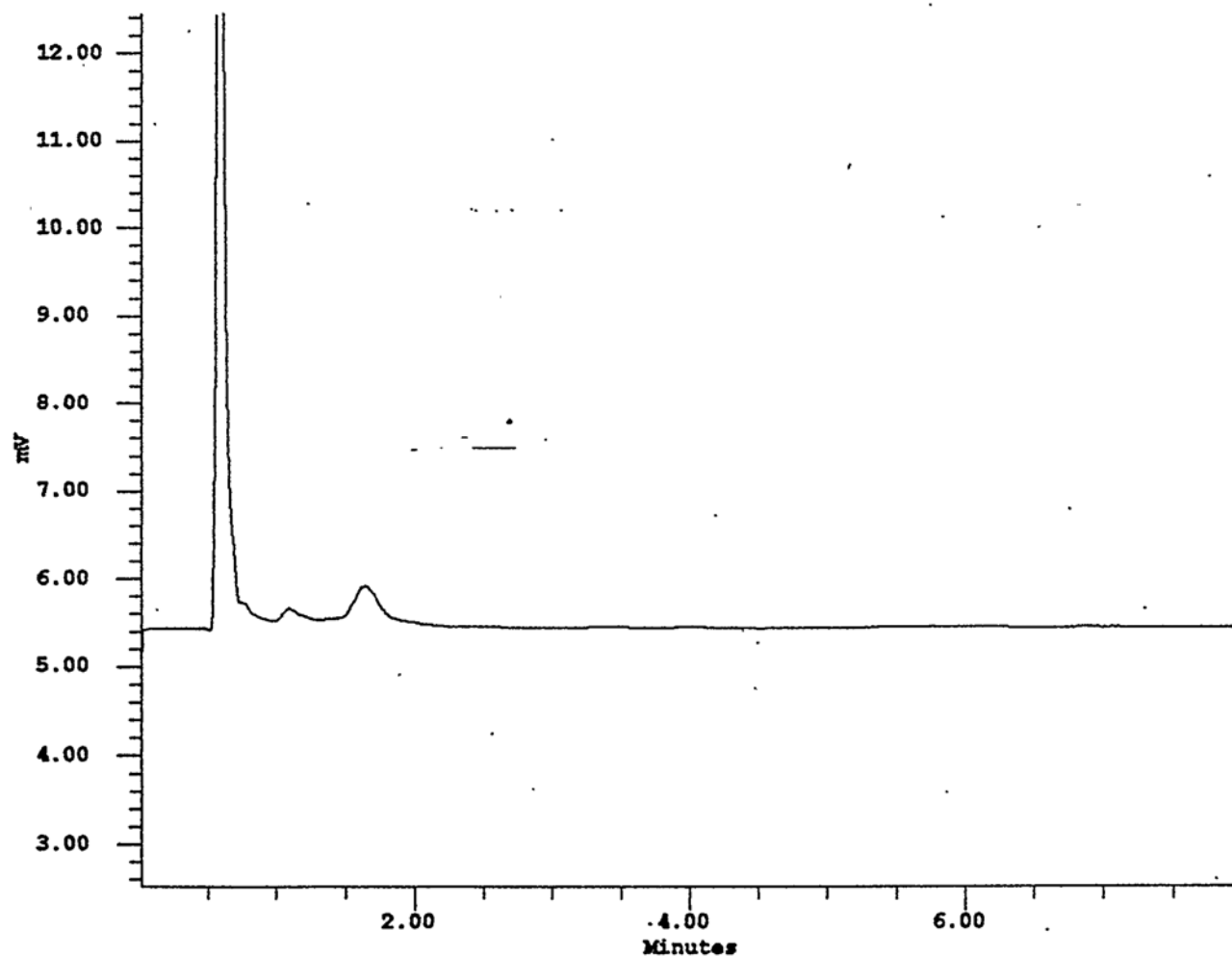
Run Time: 8.0 min

Date Acquired: 02/08/95 03:05 PM

Date Processed: 02/09/95 11:37 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 23blood

Vial: 23 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:37 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 23blood

Volume: 25.00

Channel: SIM Ch2

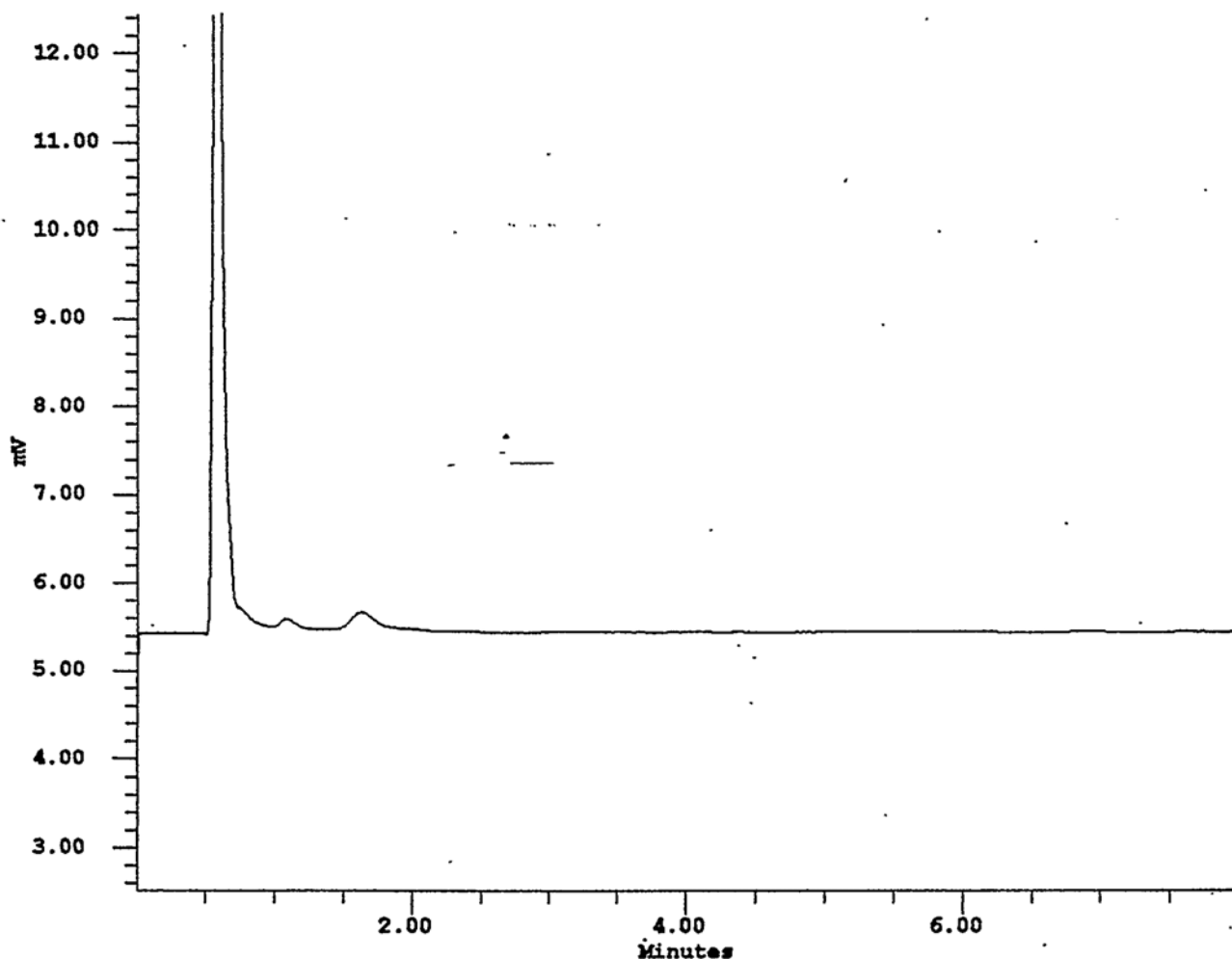
Run Time: 8.0 min

Date Acquired: 02/08/95 03:15 PM

Date Processed: 02/09/95 11:37 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 24blood

Vial: 24 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:36 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 24blood

Volume: 25.00

Channel: SIM Ch2

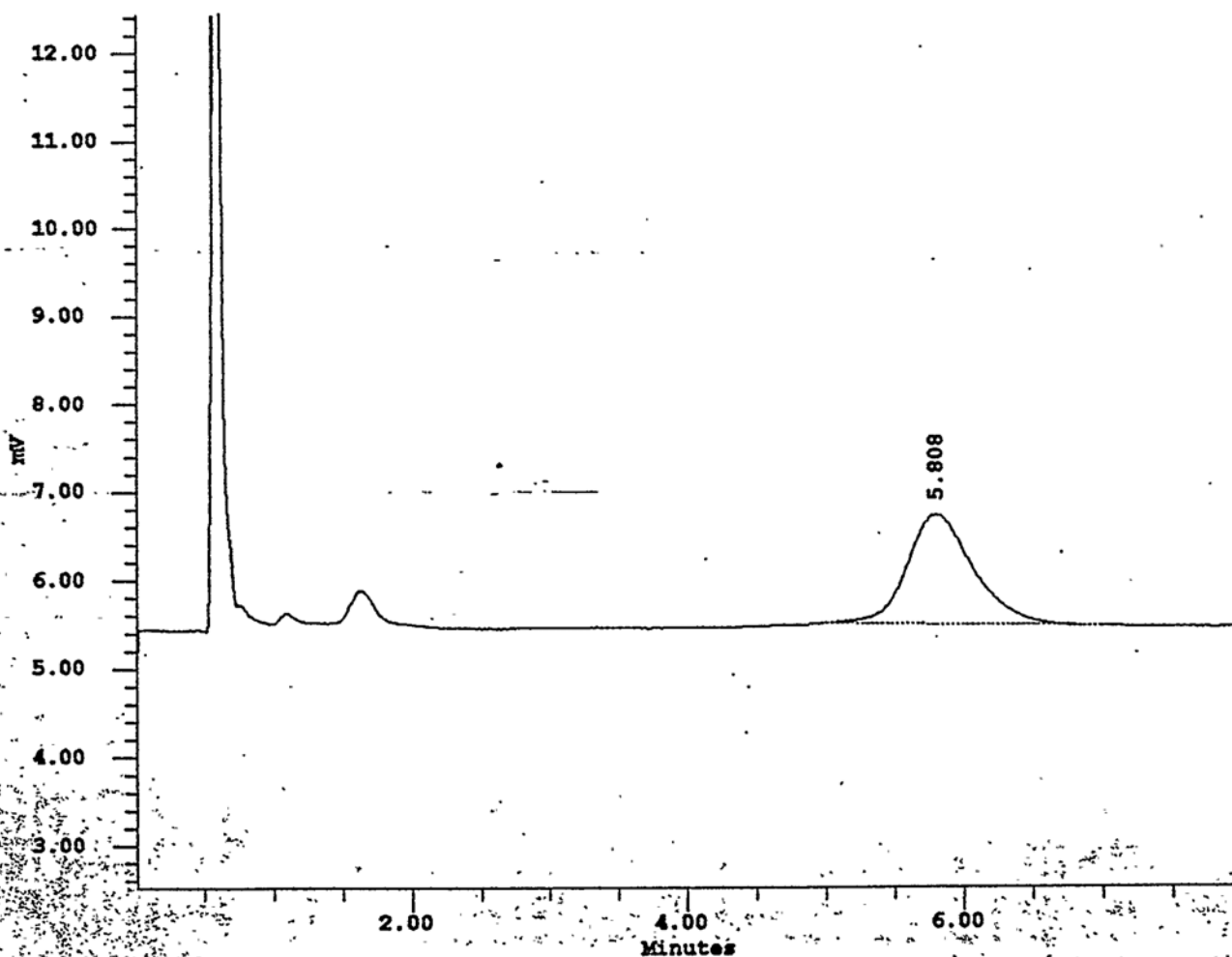
Run Time: 8.0 min

Date Acquired: 02/08/95 03:25 PM

Date Processed: 02/09/95 11:36 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.808		41856	1240	100.00	100.00

For Sample: 25blood

Vial: 25 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:36 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 25blood

Volume: 25.00

Channel: SIM Ch2

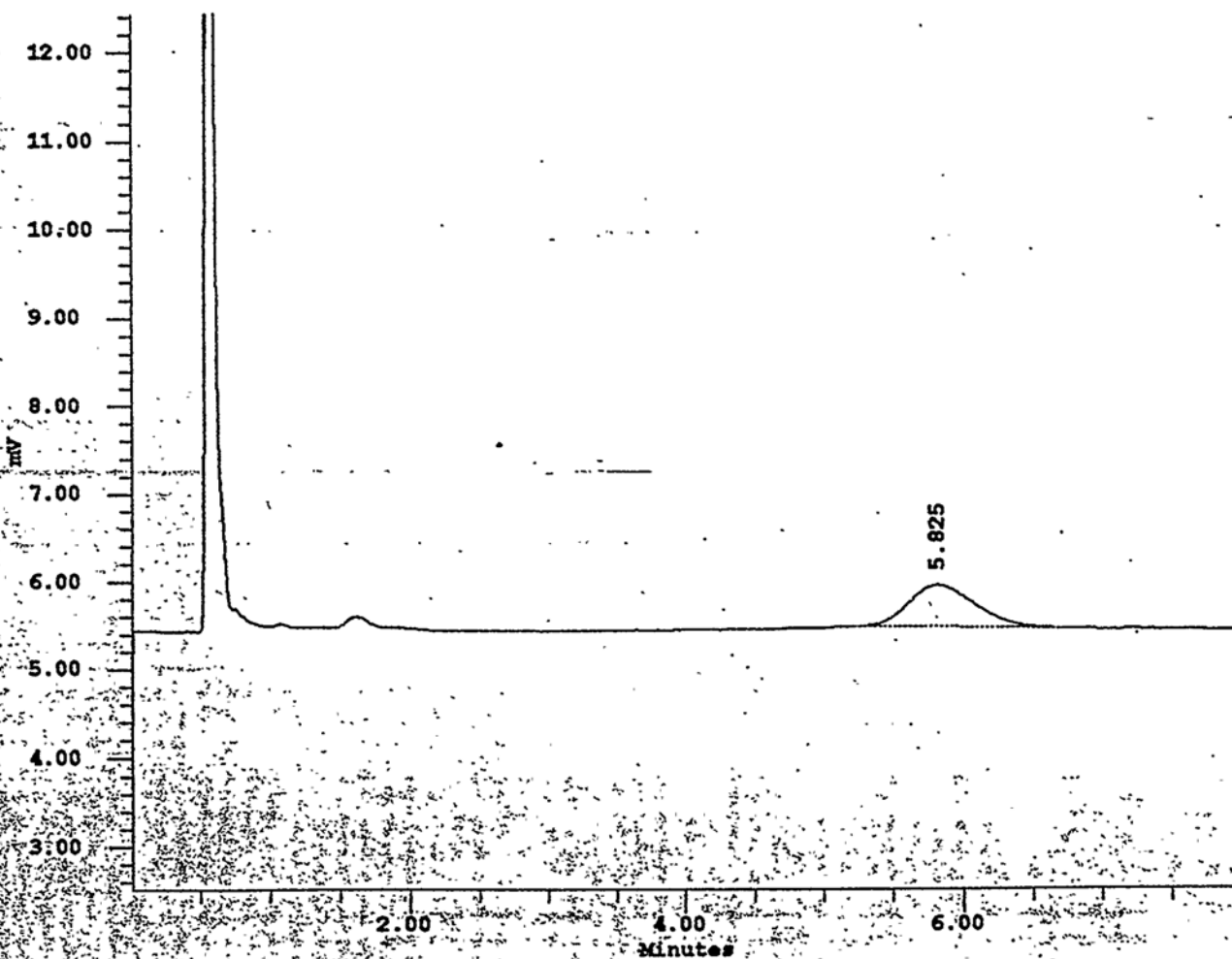
Run Time: 8.0 min

Date Acquired: 02/08/95 03:35 PM

Date Processed: 02/09/95 11:36 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.825		16061	481	100.00	100.00

For Sample: 50ppmstd

Vial: 1 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:04 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 50ppmstd

Volume: 25.00

Channel: SIM Ch2

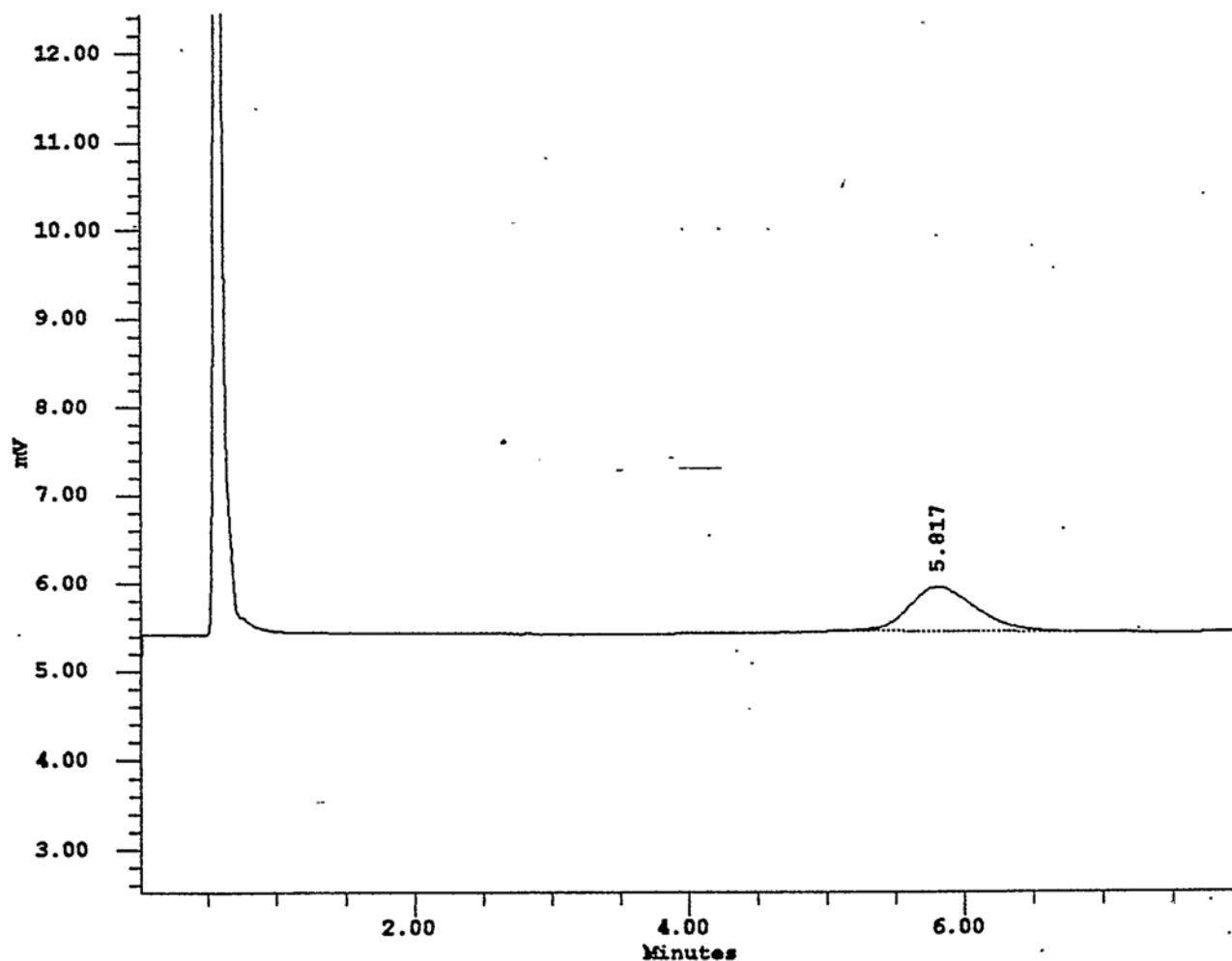
Run Time: 8.0 min

Date Acquired: 02/08/95 04:11 PM

Date Processed: 02/09/95 11:04 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.817		17186	506	100.00	100.00

For Sample: blank

Vial: 2 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:04 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: blank

Volume: 25.00

Channel: SIM Ch2

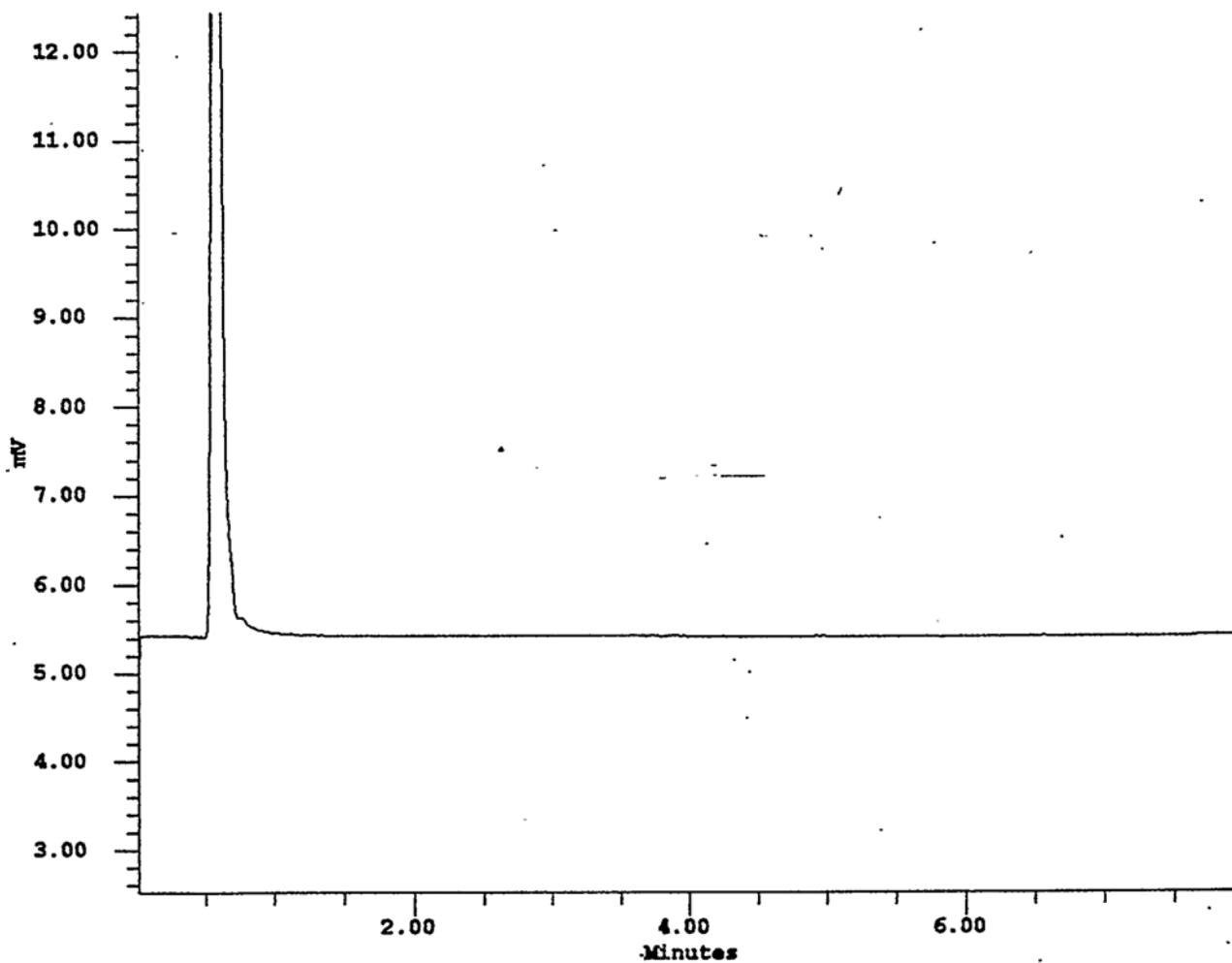
Run Time: 8.0 min

Date Acquired: 02/08/95 04:21 PM

Date Processed: 02/09/95 11:04 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

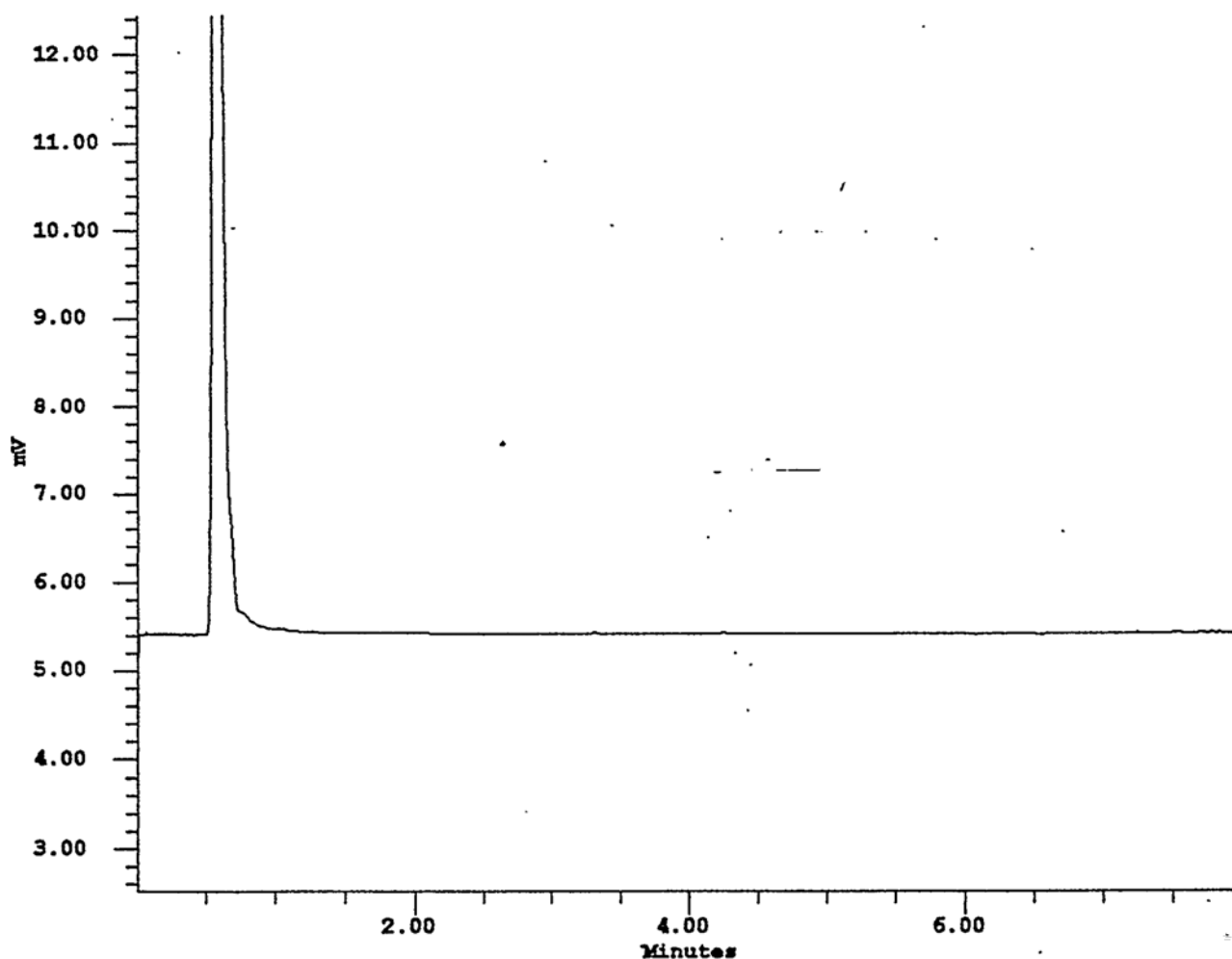
For Sample: 29c

Vial: 4 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:03 AM

Project Name: cations_md
 Sample Name: 29c
 Channel: SIM Ch2
 Date Acquired: 02/08/95 04:31 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/09/95 11:03 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 26blood

Vial: 26 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:03 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 26blood

Volume: 25.00

Channel: SIM Ch2

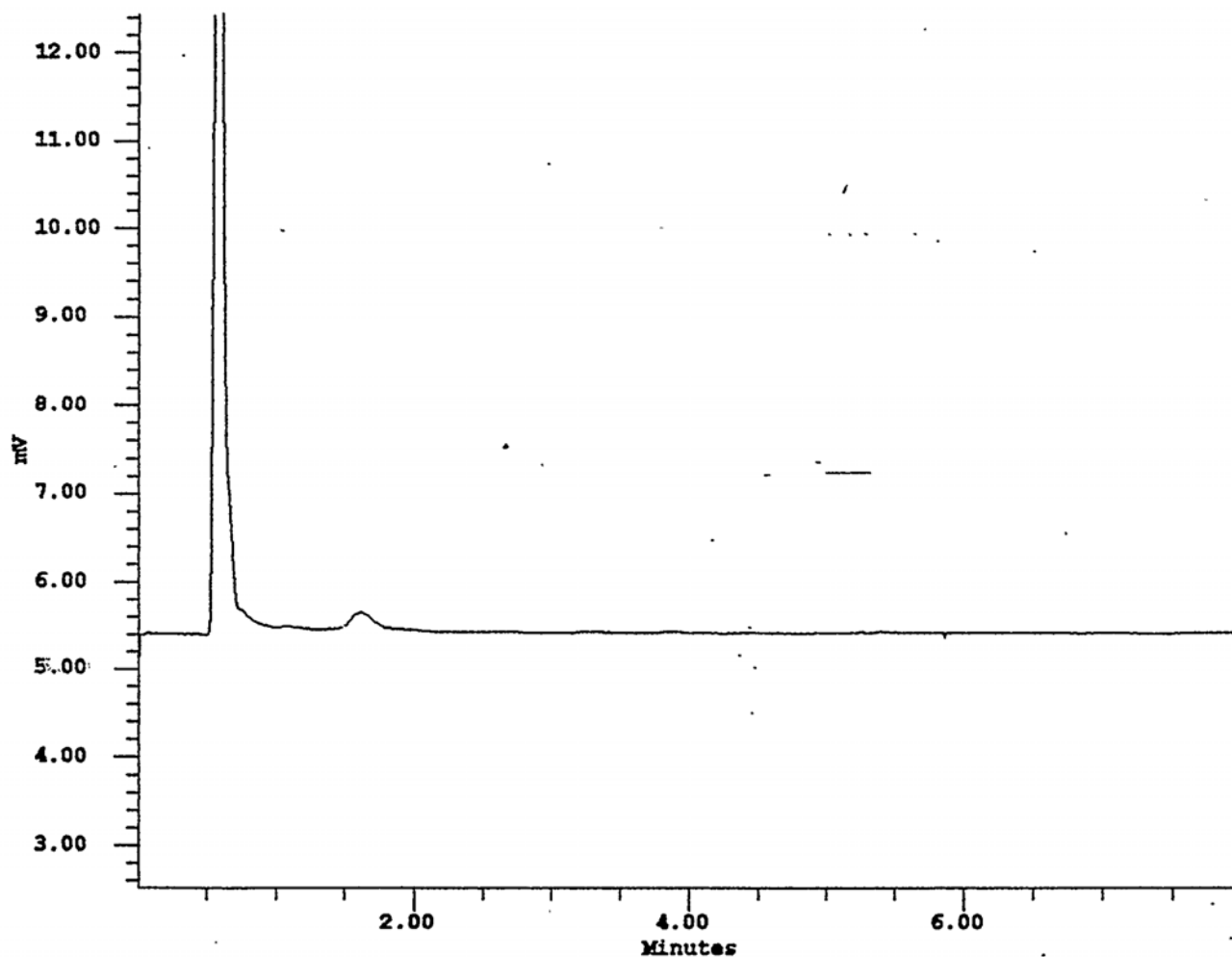
Date Acquired: 02/08/95 04:42 PM

Run Time: 8.0 min

Acq Meth Set: EDTA_METH_SET

Date Processed: 02/09/95 11:03 AM

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 27blood

Vial: 27 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:03 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 27blood

Volume: 25.00

Channel: SIM Ch2

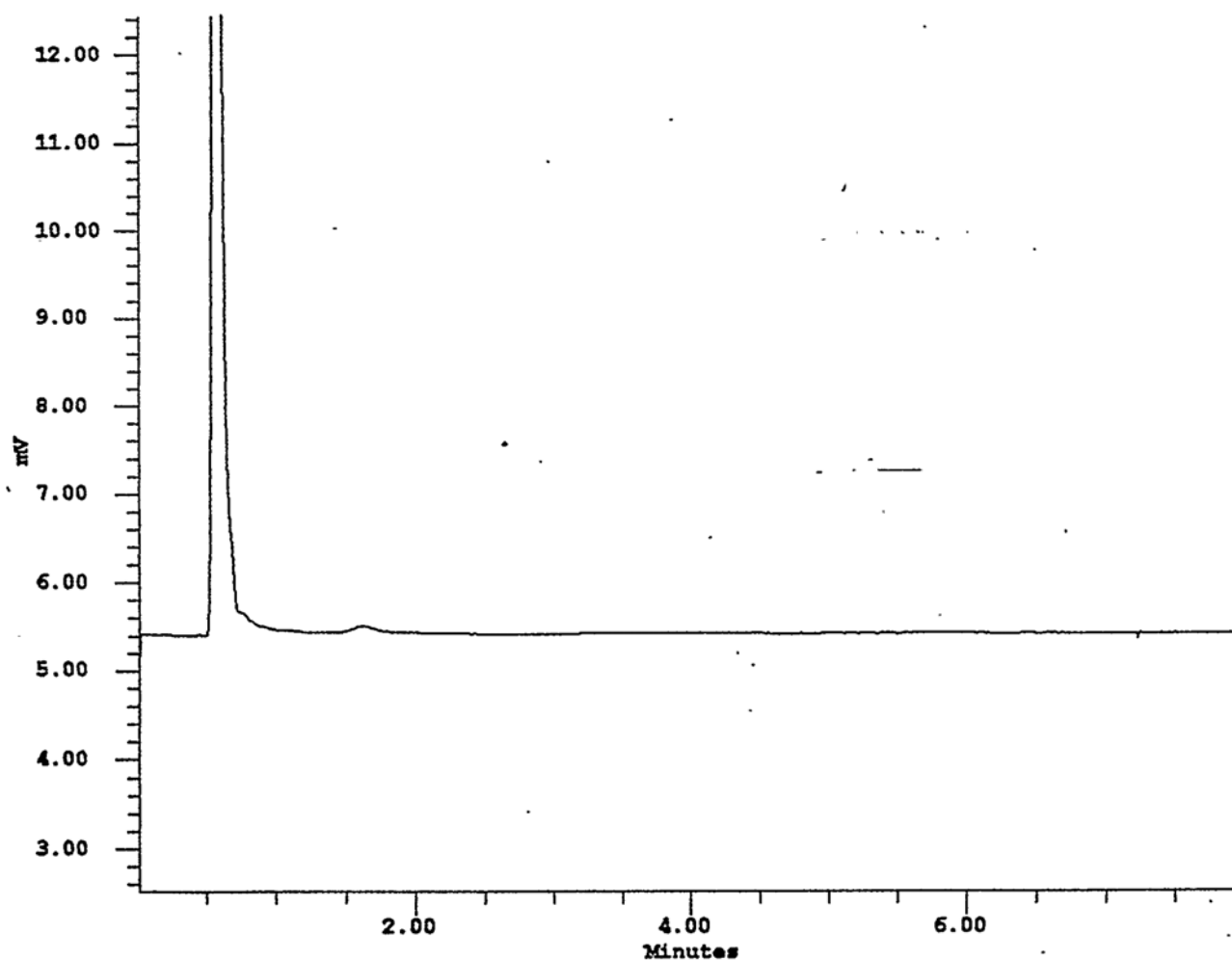
Date Acquired: 02/08/95 04:52 PM

Run Time: 8.0 min

Date Processed: 02/09/95 11:03 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 29blood

Vial: 29 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:02 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 29blood

Volume: 25.00

Channel: SIM Ch2

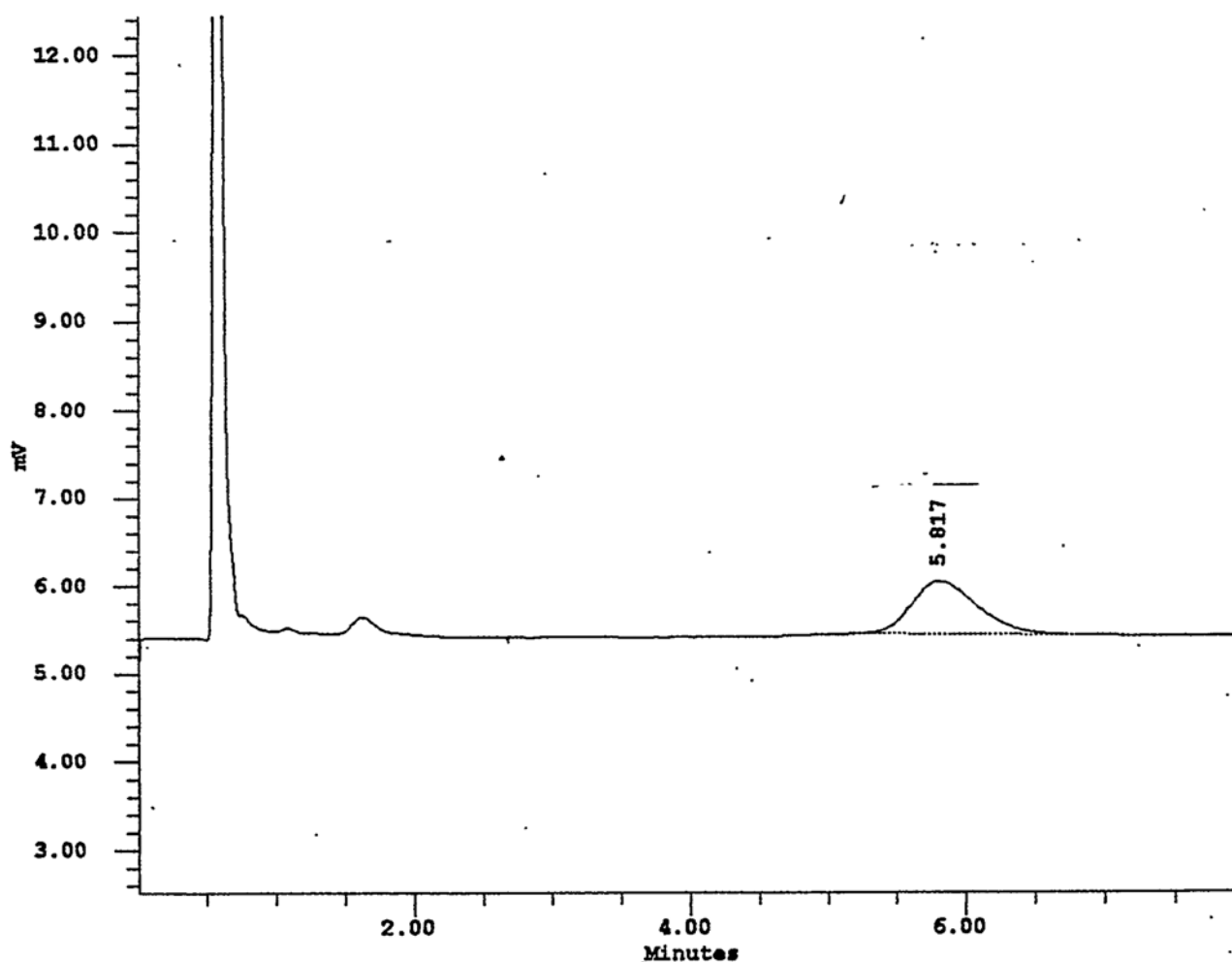
Run Time: 8.0 min

Date Acquired: 02/08/95 05:02 PM

Date Processed: 02/09/95 11:02 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc

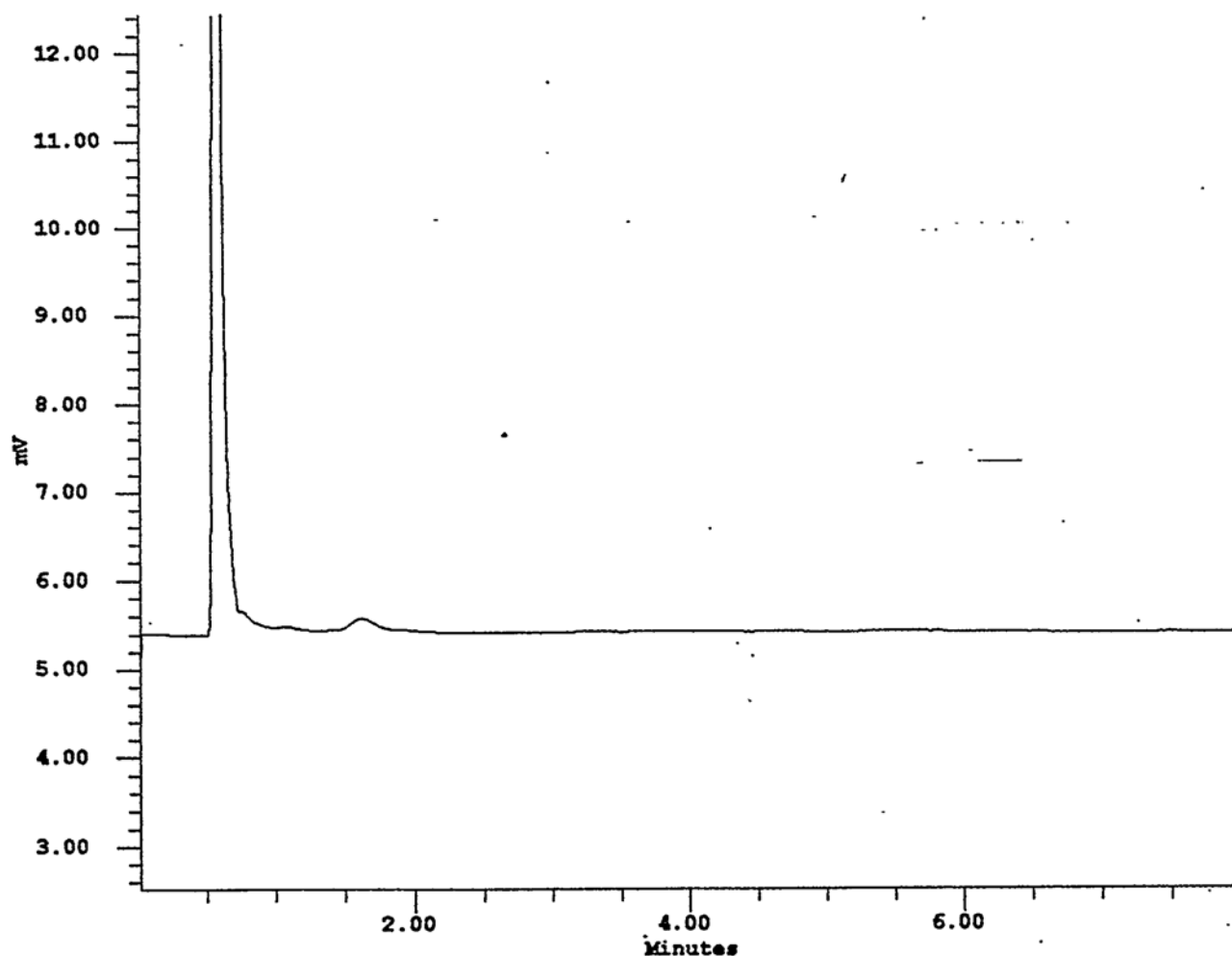


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.817		20362	613	100.00	100.00

For Sample: 30blood Vial: 30 Inj: 1 Chan: SIM Ch2 Date Processed 02/09/95 11:02 AM

Project Name:	cations_md	Sample Type:	Unknown
Sample Name:	30blood	Volume:	25.00
Channel:	SIM Ch2	Run Time:	8.0 min
Date Acquired:	02/08/95 05:12 PM	Date Processed:	02/09/95 11:02 AM
Acq Meth Set:	EDTA_METH_SET		
Processing Method:	EDTA_proc		



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 31blood

Vial: 31 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:02 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 31blood

Volume: 25.00

Channel: SIM Ch2

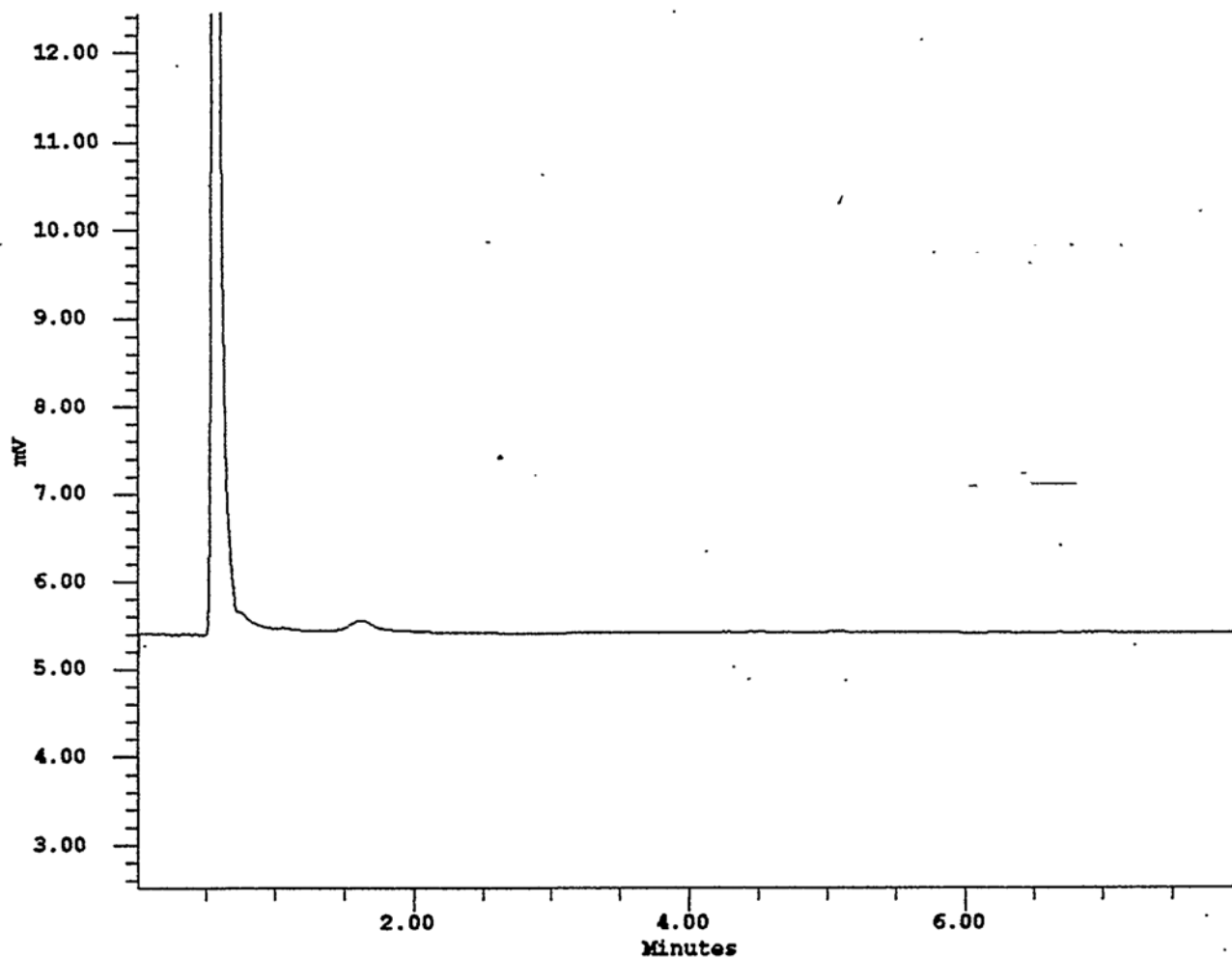
Run Time: 8.0 min

Date Acquired: 02/08/95 05:22 PM

Date Processed: 02/09/95 11:02 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc

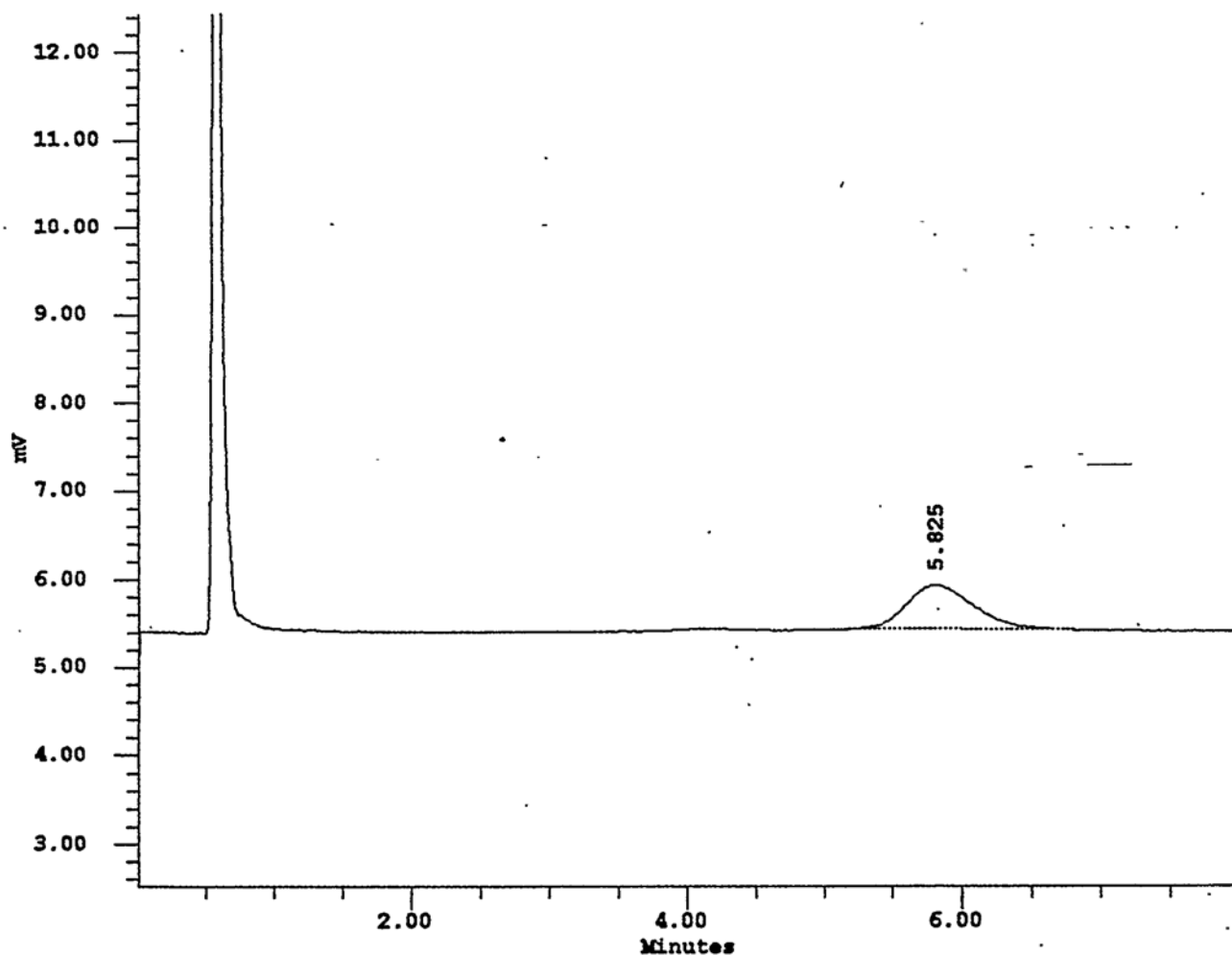


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 50ppmedta Vial: 1 Inj: 1 Chan: SIM Ch2 Date Processed 02/09/95 11:01 AM

Project Name: cations_md Sample Type: Unknown
 Sample Name: 50ppmedta Volume: 25.00
 Channel: SIM Ch2
 Date Acquired: 02/08/95 05:32 PM Run Time: 8.0 min
 Date Processed: 02/09/95 11:01 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.825		17200	506	100.00	100.00

For Sample: blank

Vial: 2 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:01 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: blank

Volume: 25.00

Channel: SIM Ch2

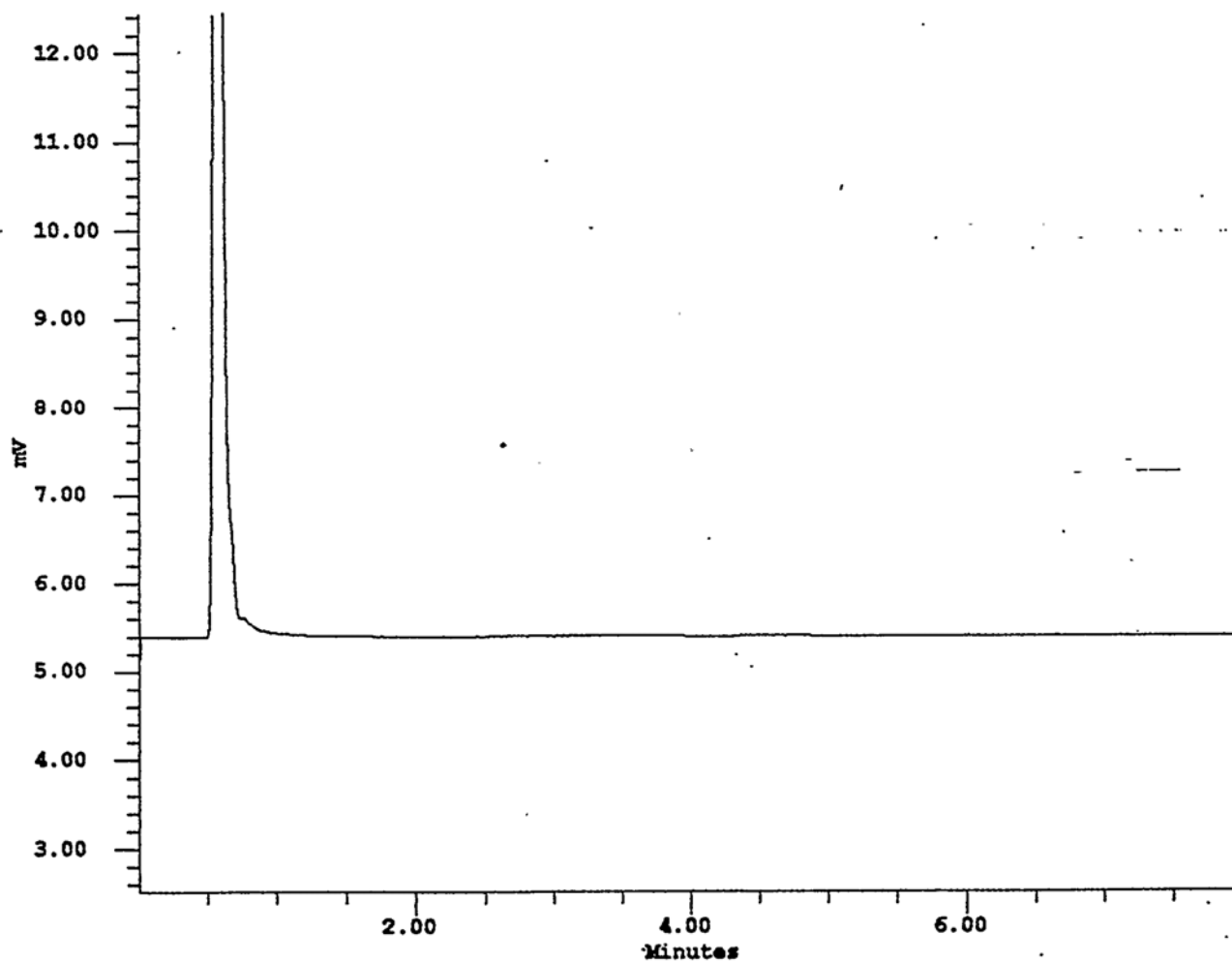
Run Time: 8.0 min

Date Acquired: 02/08/95 05:44 PM

Date Processed: 02/09/95 11:01 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 29c

Vial: 4 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:01 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 29c

Volume: 25.00

Channel: SIM Ch2

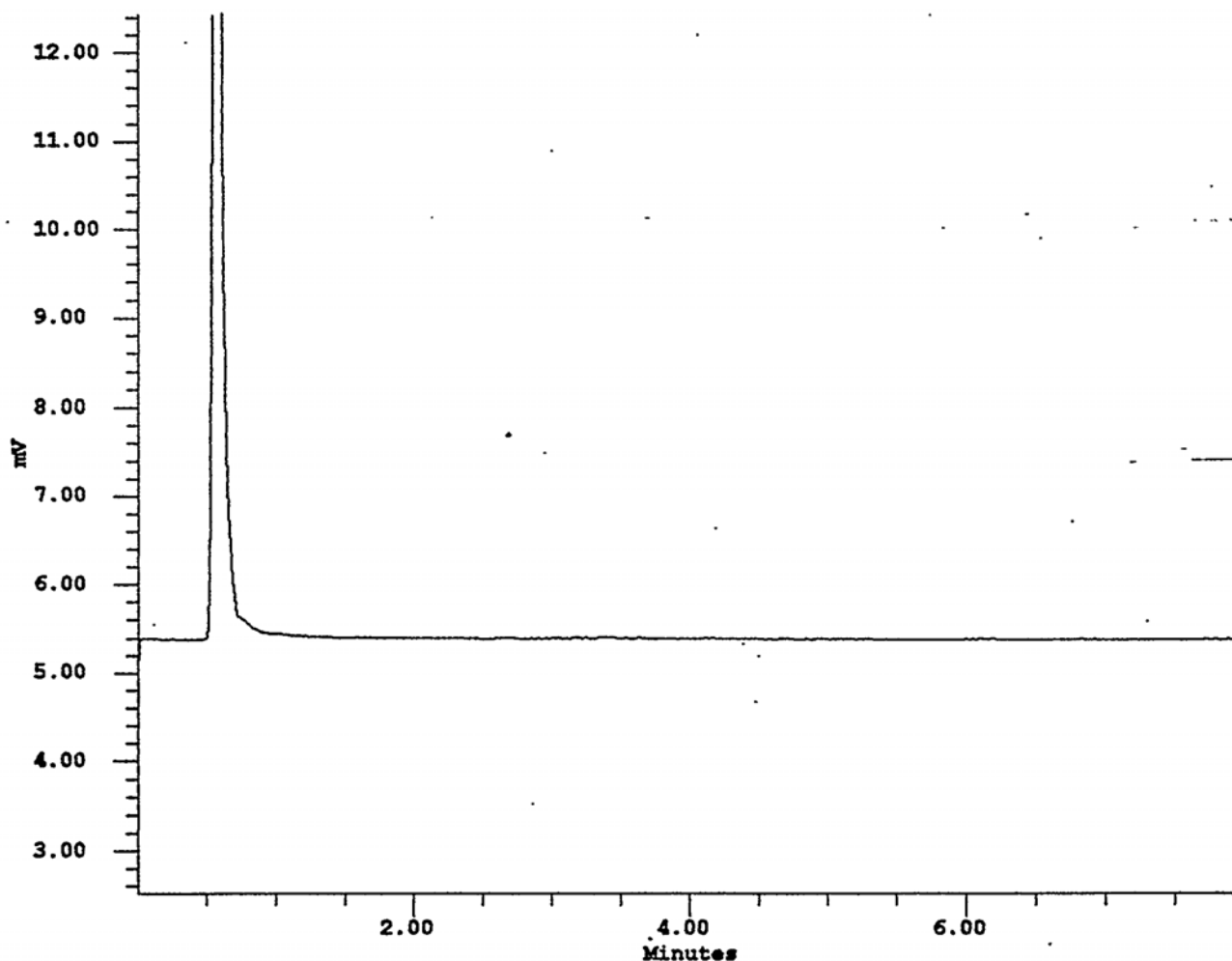
Date Acquired: 02/08/95 05:54 PM

Run Time: 8.0 min

Acq Meth Set: EDTA_METH_SET

Date Processed: 02/09/95 11:01 AM

Processing Method: EDTA_proc

*Peak Results*

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

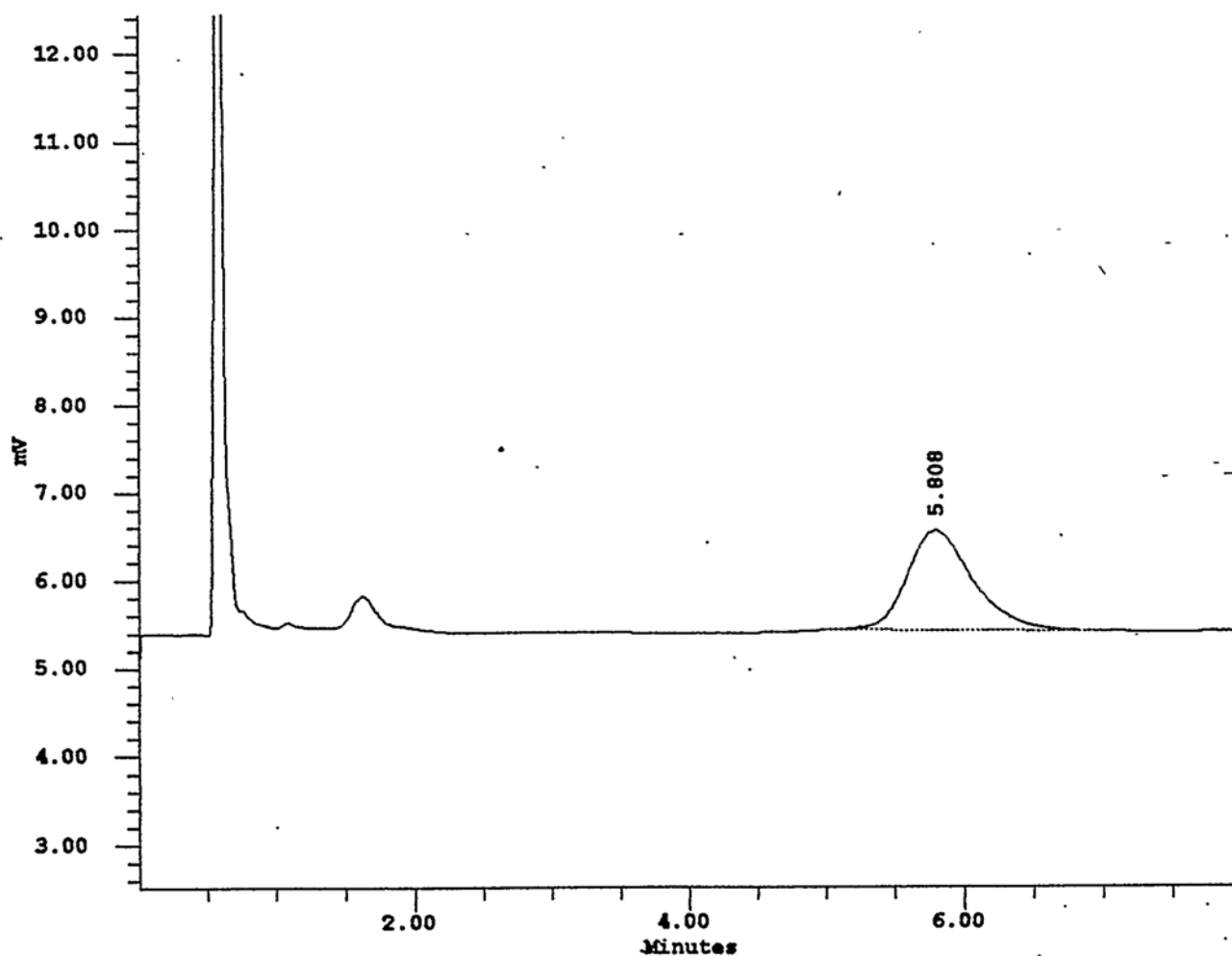
For Sample: 32blood

Vial: 32 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:00 AM

Project Name: cations_md
 Sample Name: 32blood
 Channel: SIM Ch2
 Date Acquired: 02/08/95 06:05 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/09/95 11:00 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.808		37575	1132	100.00	100.00

For Sample: 33blood

Vial: 33 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:00 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 33blood

Volume: 25.00

Channel: SIM Ch2

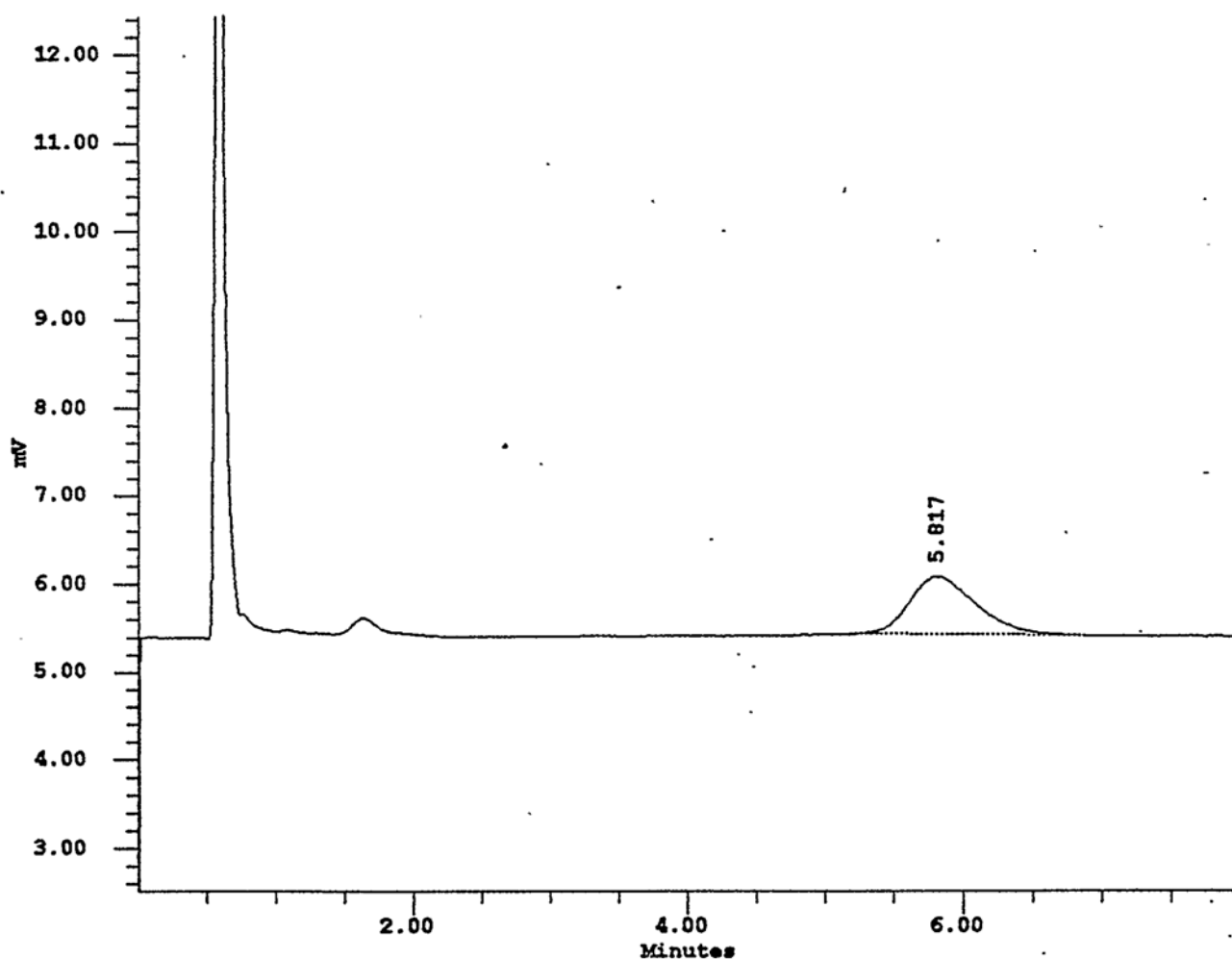
Date Acquired: 02/08/95 06:15 PM

Run Time: 8.0 min

Date Processed: 02/09/95 11:00 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.817		21992	650	100.00	100.00

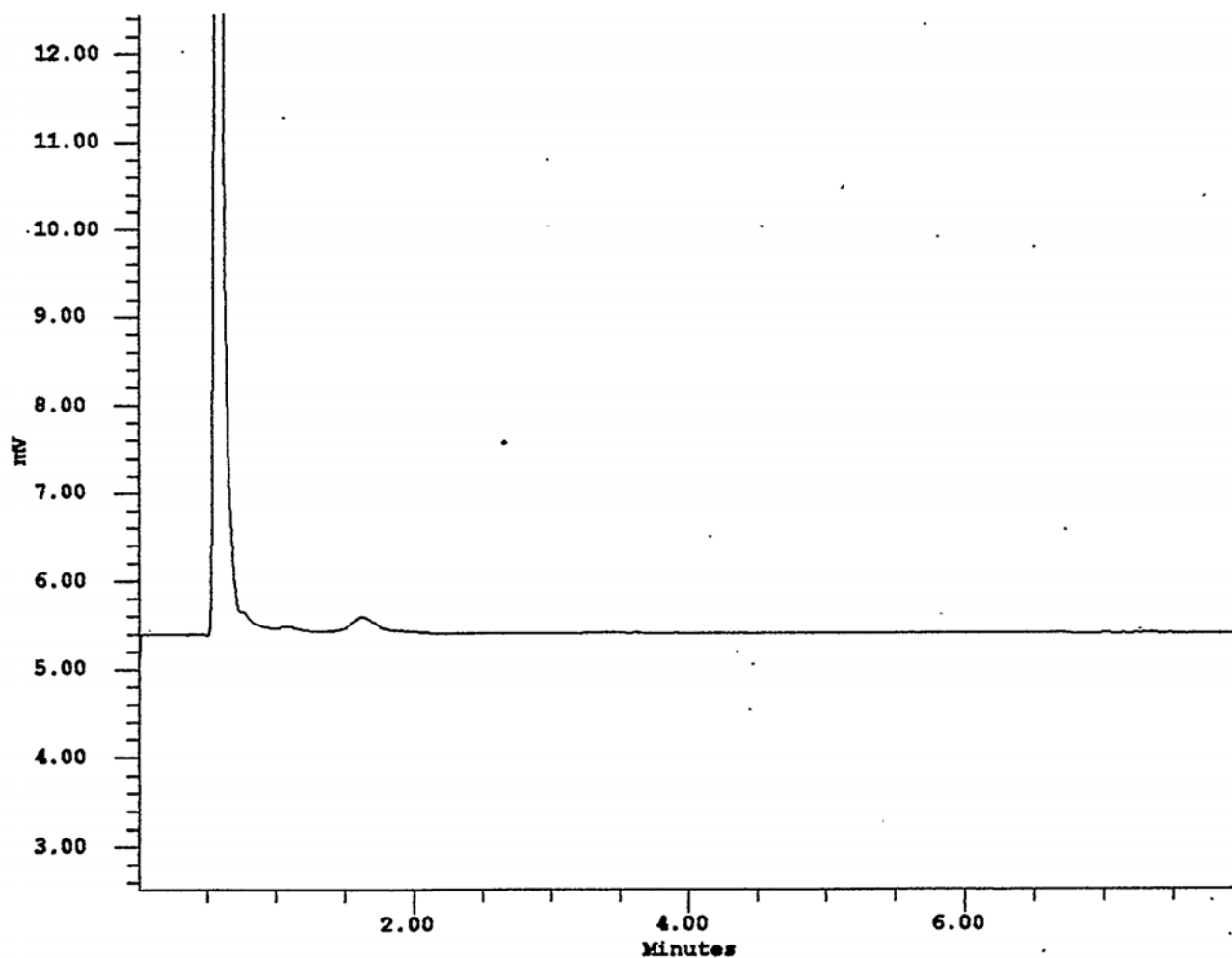
For Sample: 34blood

Vial: 34 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 11:00 AM

Project Name: cations_md
 Sample Name: 34blood
 Channel: SIM Ch2
 Date Acquired: 02/08/95 06:25 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/09/95 11:00 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 35blood

Vial: 35 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:59 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 35blood

Volume: 25.00

Channel: SIM Ch2

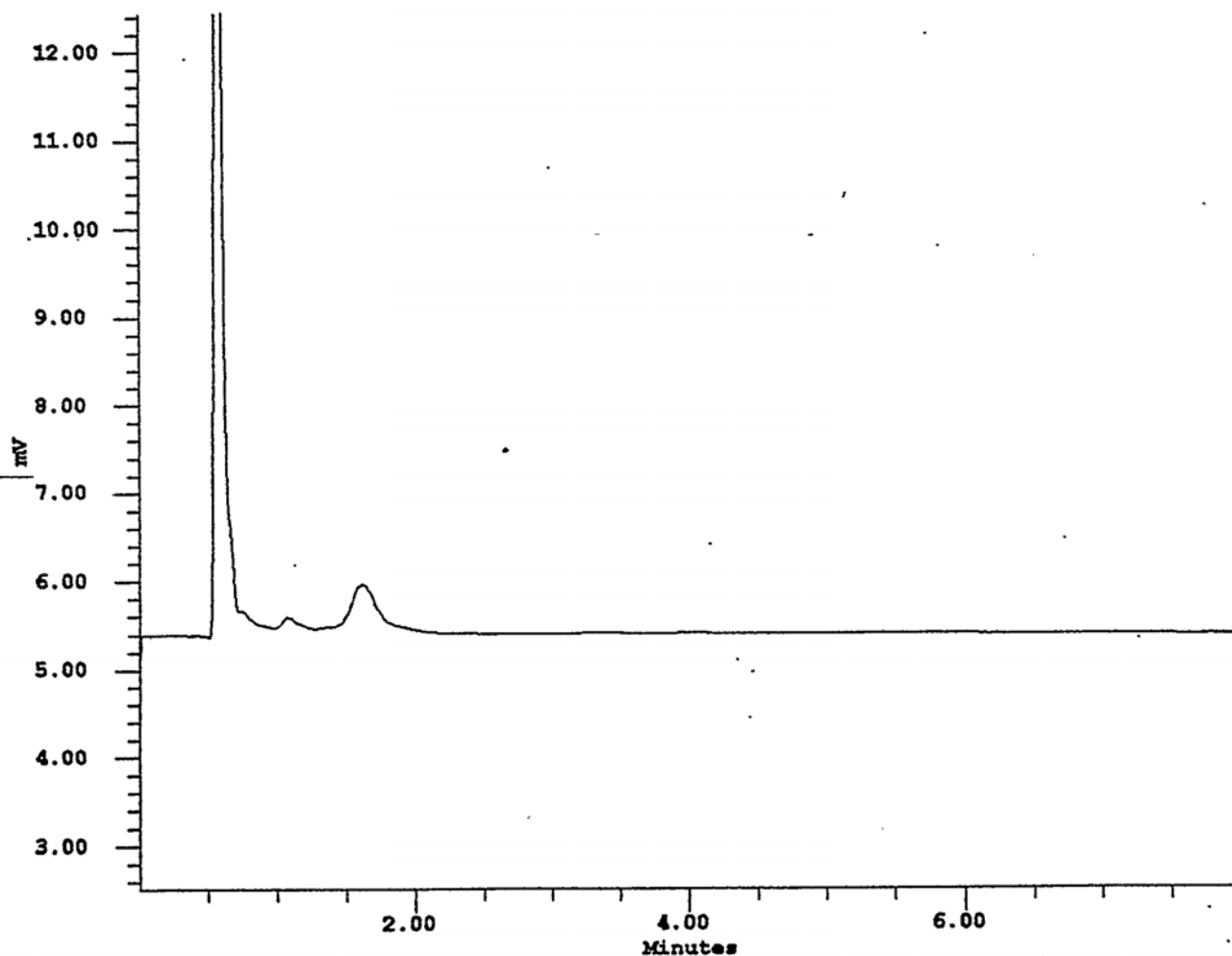
Run Time: 8.0 min

Date Acquired: 02/08/95 06:35 PM

Date Processed: 02/09/95 10:59 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

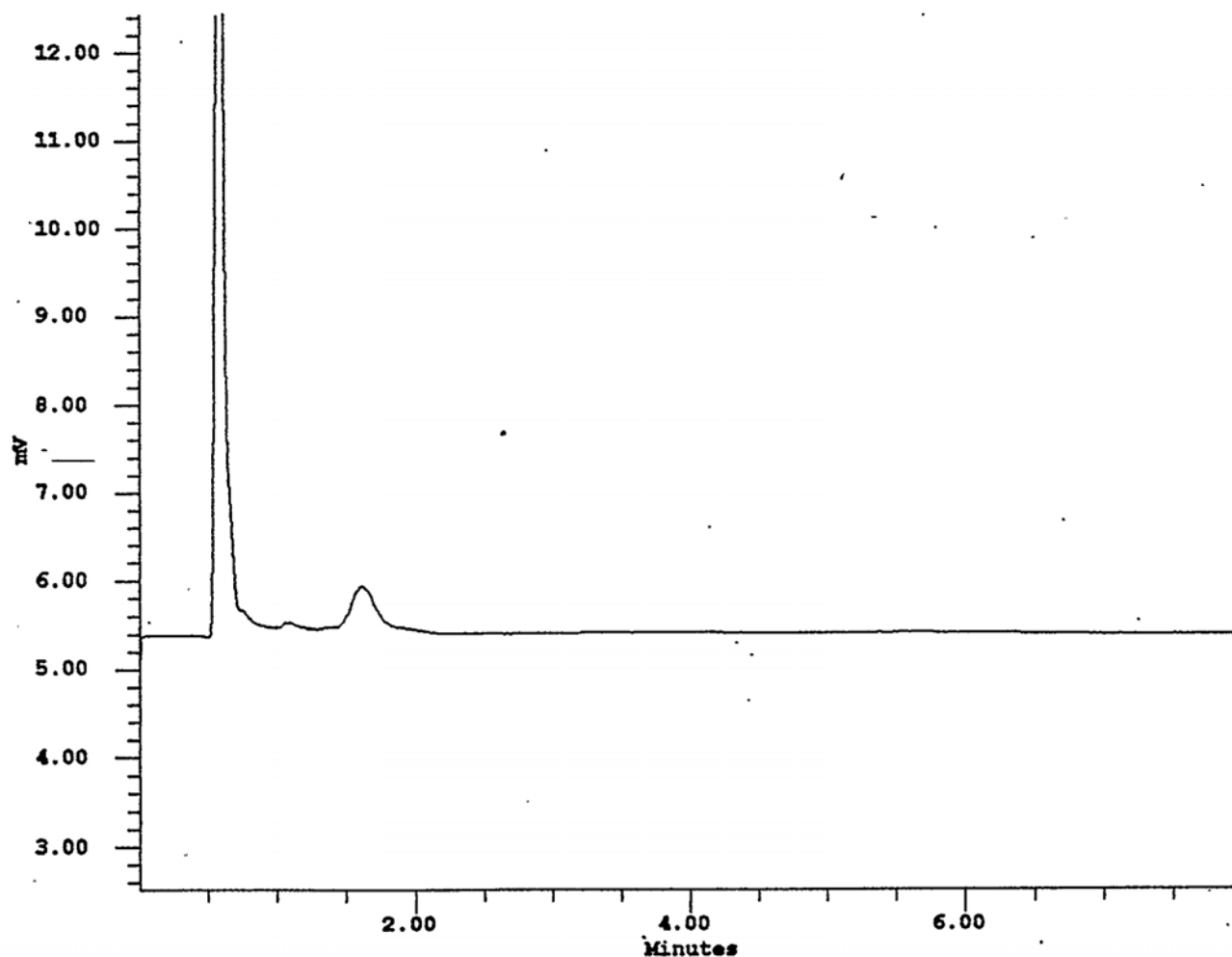
For Sample: 36blood

Vial: 36 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:59 AM

Project Name: cations_md
 Sample Name: 36blood
 Channel: SIM Ch2
 Date Acquired: 02/08/95 06:45 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/09/95 10:59 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 50ppmst

Vial: 1 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:58 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 50ppmst

Volume: 25.00

Channel: SIM Ch2

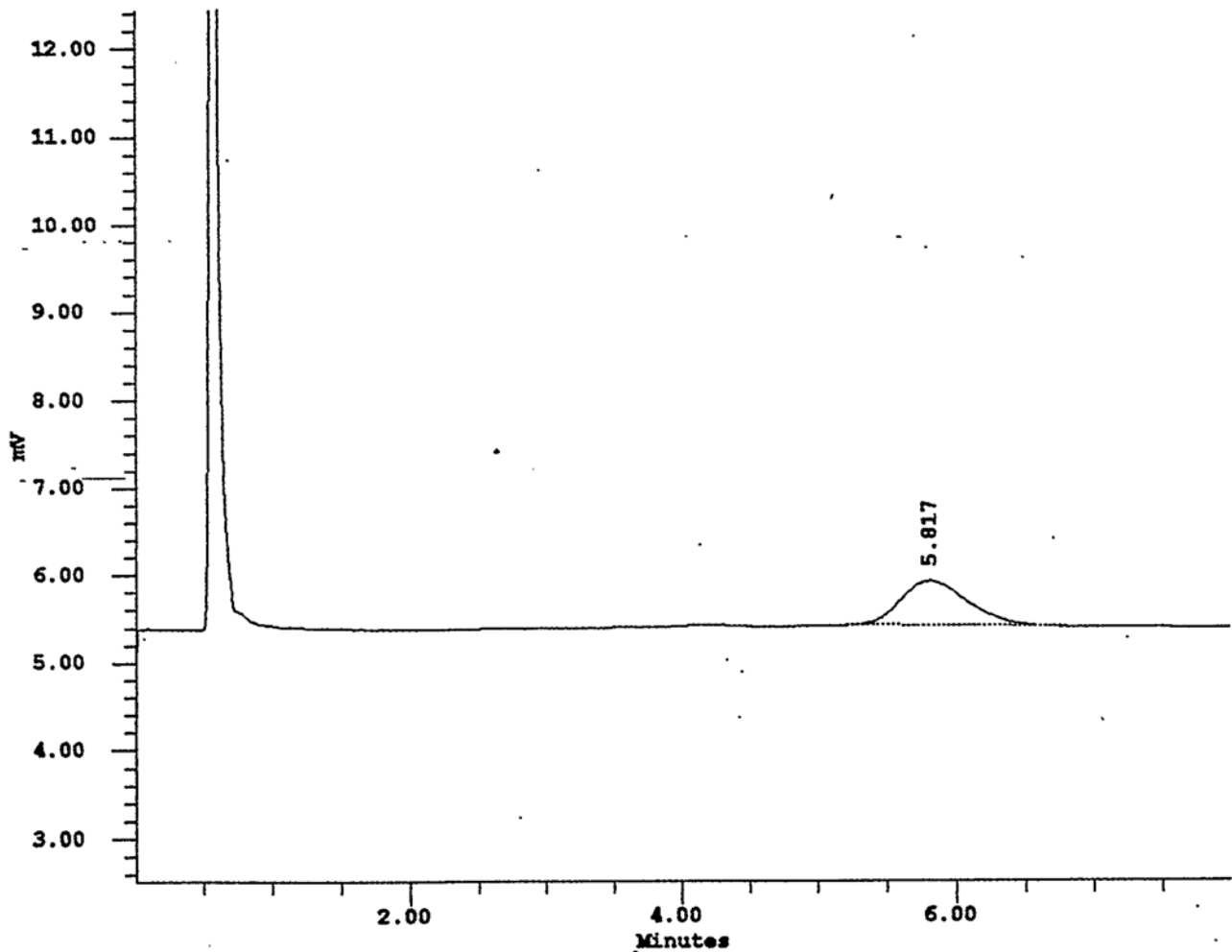
Run Time: 8.0 min

Date Acquired: 02/08/95 06:55 PM

Date Processed: 02/09/95 10:58 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.817		16954	504	100.00	100.00

For Sample: blank

Vial: 2 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:58 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: blank

Volume: 25.00

Channel: SIM Ch2

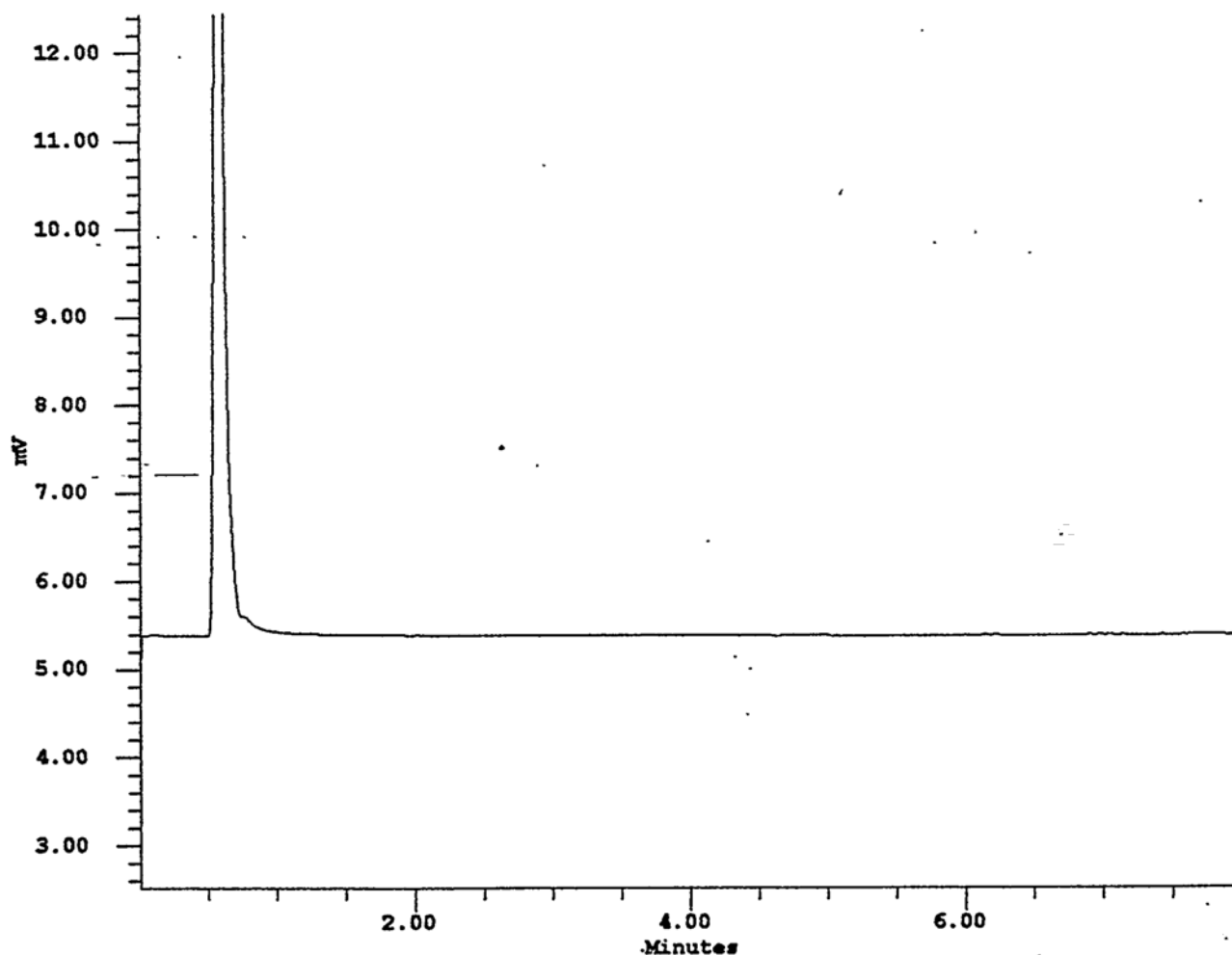
Run Time: 8.0 min

Date Acquired: 02/08/95 07:05 PM

Date Processed: 02/09/95 10:58 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

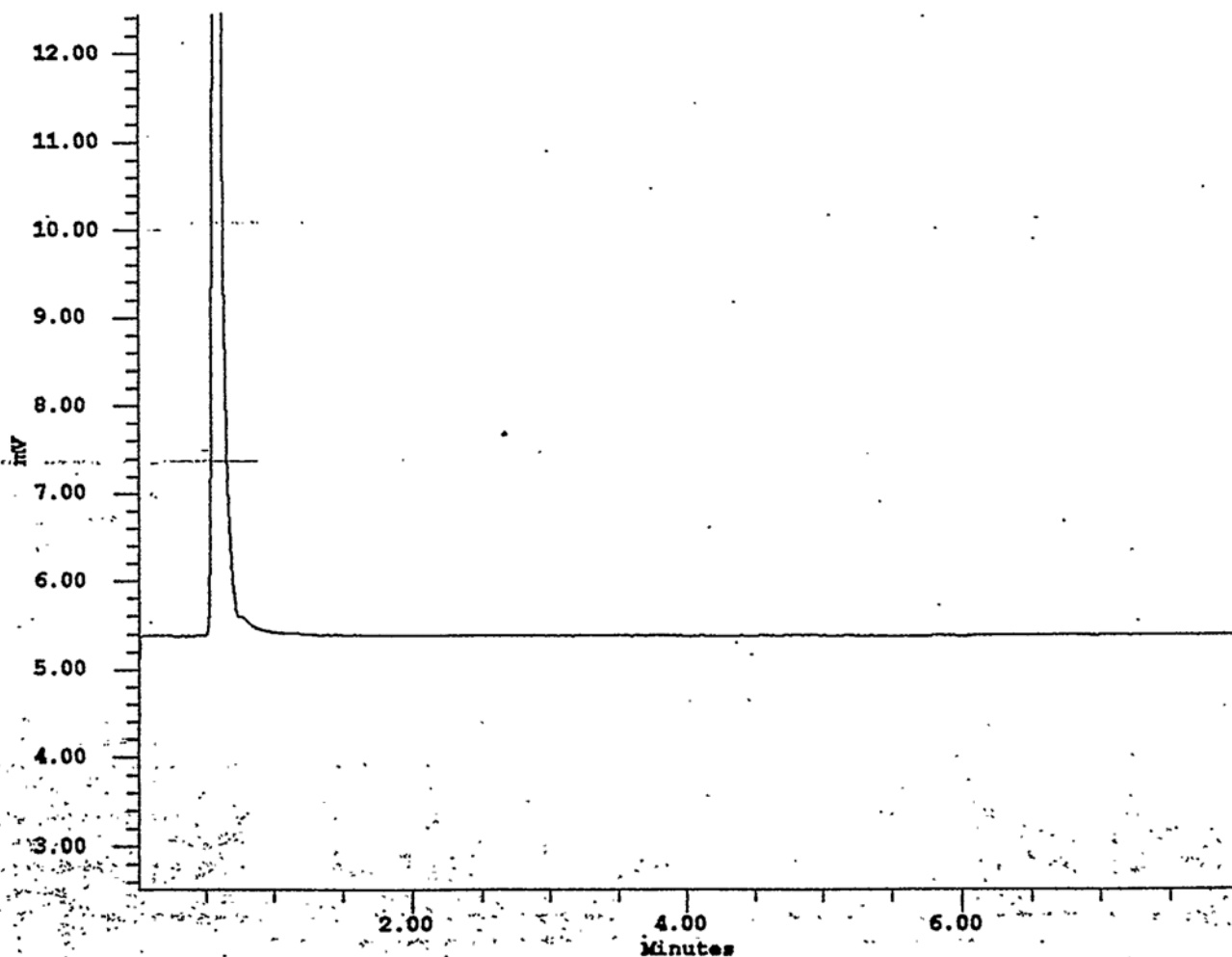
For Sample: 37c

Vial: 5 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:58 AM

Project Name: cations_md
 Sample Name: 37c
 Channel: SIM Ch2
 Date Acquired: 02/08/95 07:15 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/09/95 10:58 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

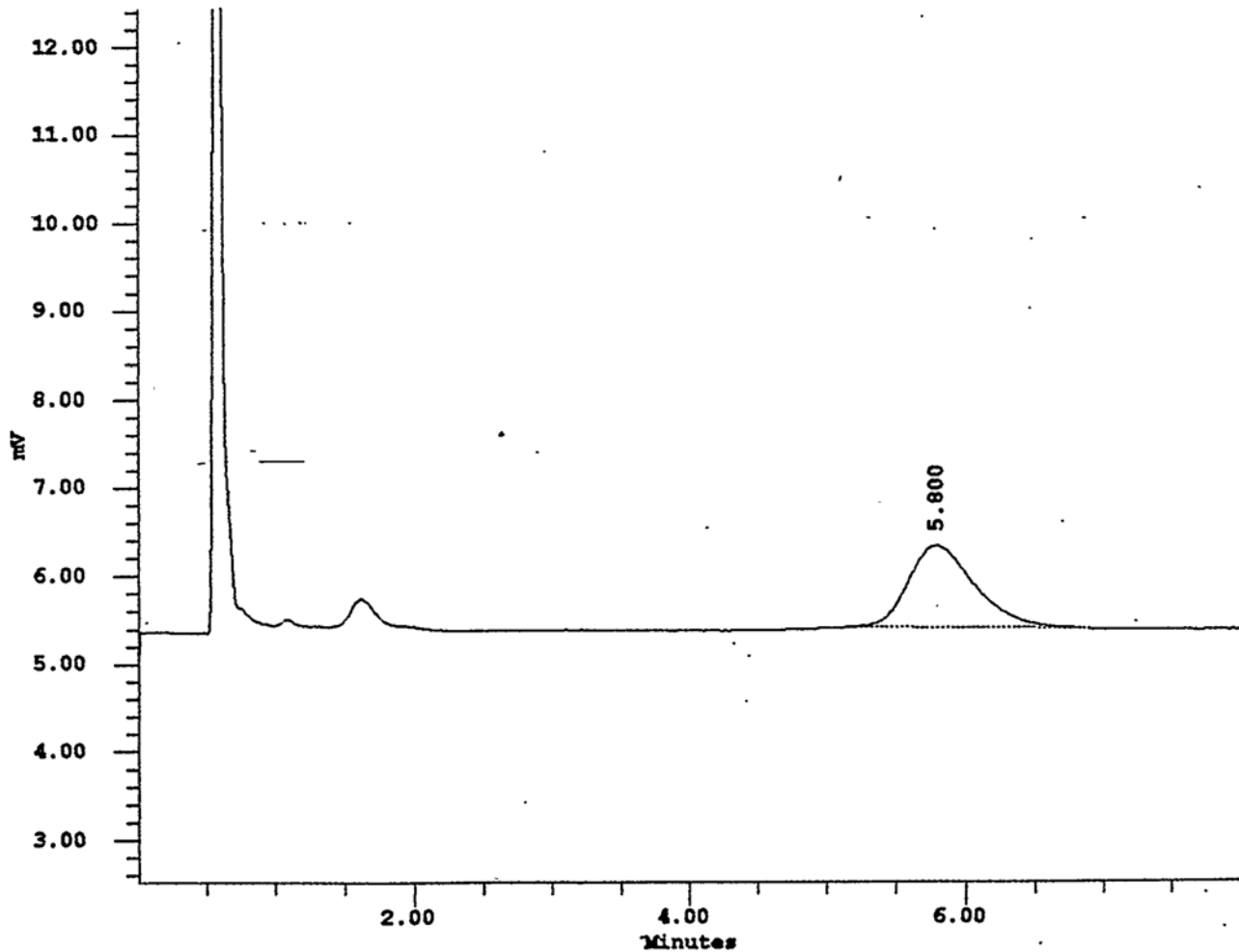
For Sample: 37blood

Vial: 37 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:57 AM

Project Name: cations_md
 Sample Name: 37blood
 Channel: SIM Ch2
 Date Acquired: 02/08/95 07:25 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/09/95 10:57 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.800		30424	920	100.00	100.00

For Sample: 38blood

Vial: 38 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:57 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 38blood

Volume: 25.00

Channel: SIM Ch2

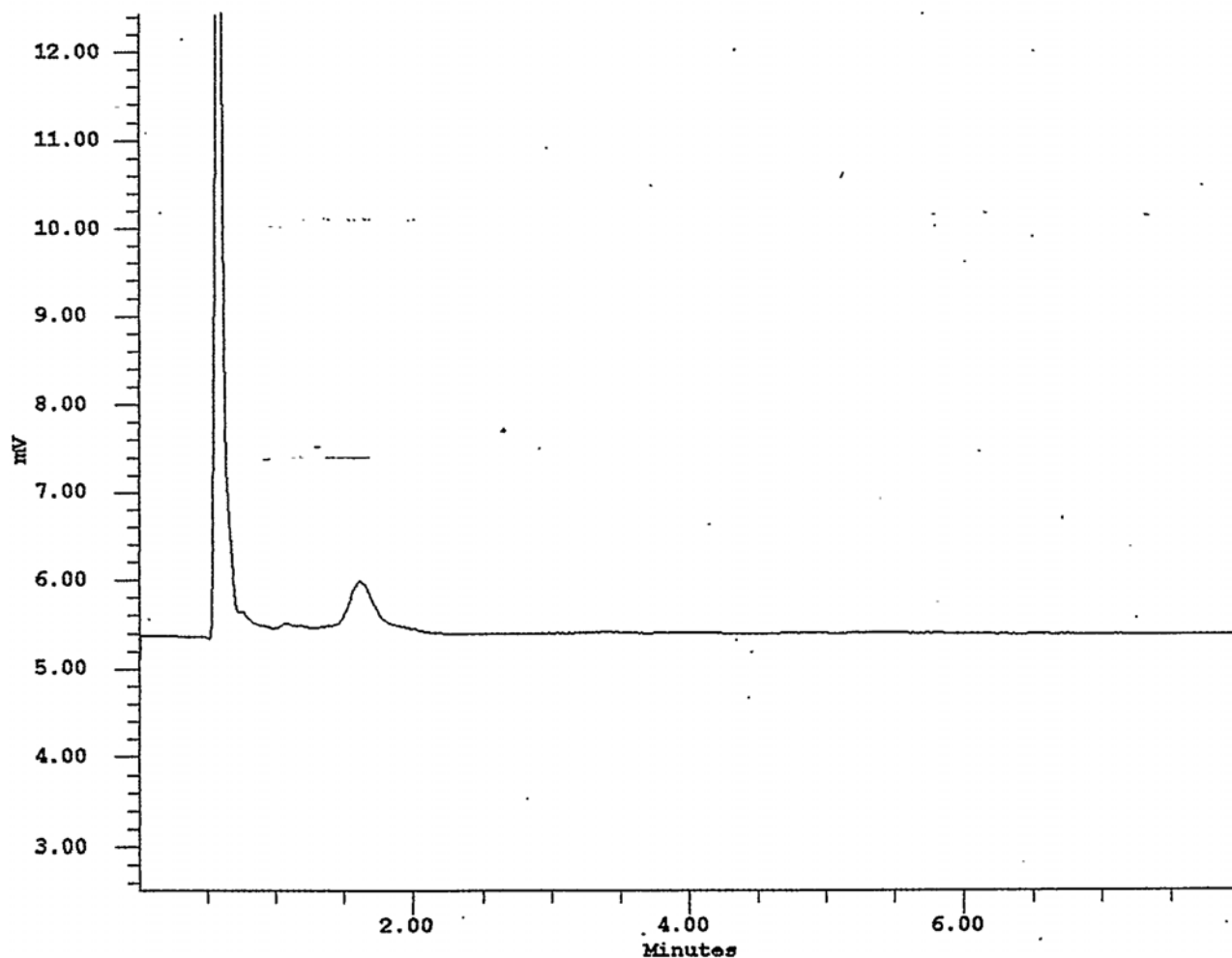
Run Time: 8.0 min

Date Acquired: 02/08/95 07:35 PM

Date Processed: 02/09/95 10:57 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

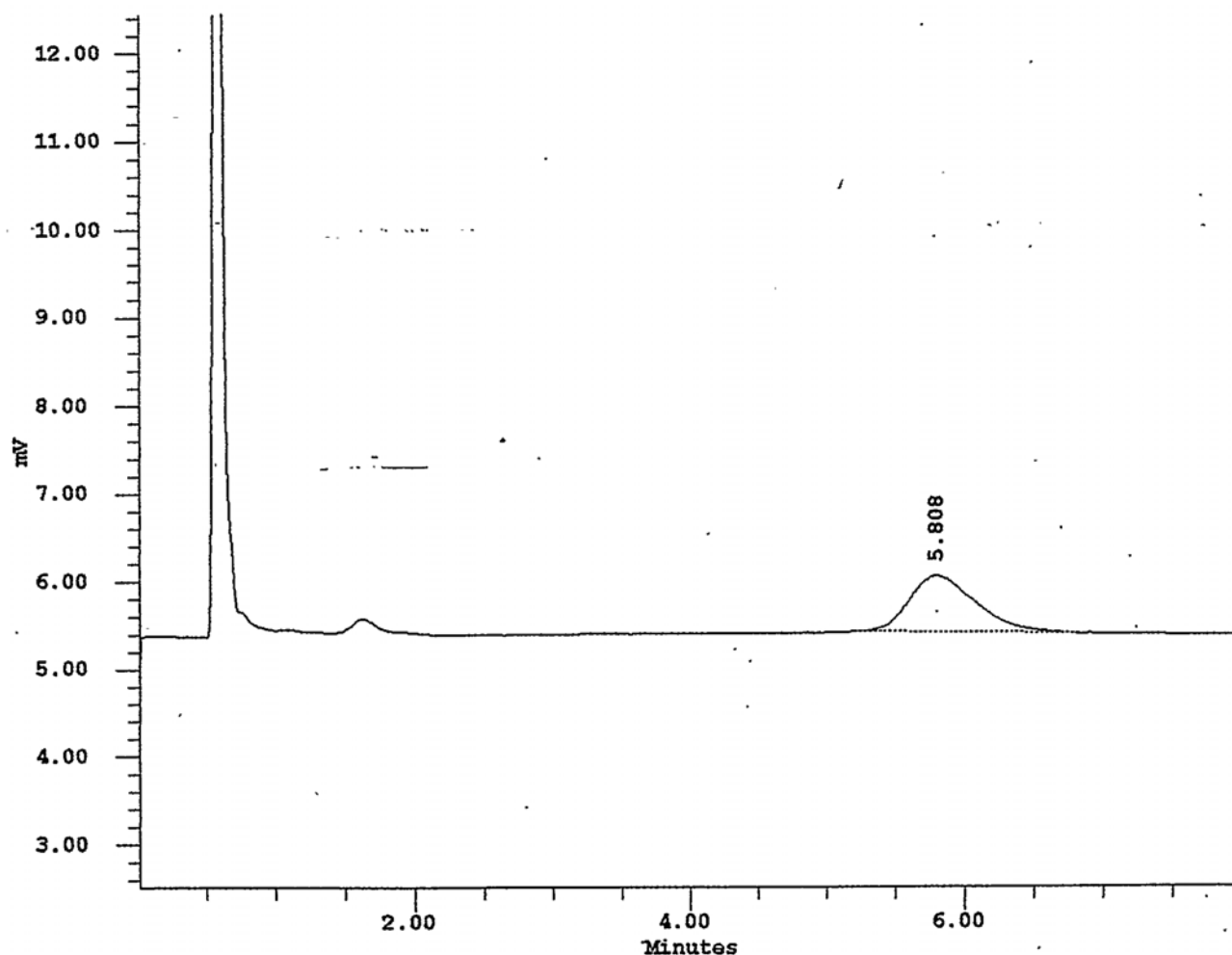
For Sample: 39blood

Vial: 39 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:57 AM

Project Name: cations_md
 Sample Name: 39blood
 Channel: SIM Ch2
 Date Acquired: 02/08/95 07:45 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/09/95 10:57 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.808		21879	645	100.00	100.00

For Sample: 40blood

Vial: 40 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:56 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 40blood

Volume: 25.00

Channel: SIM Ch2

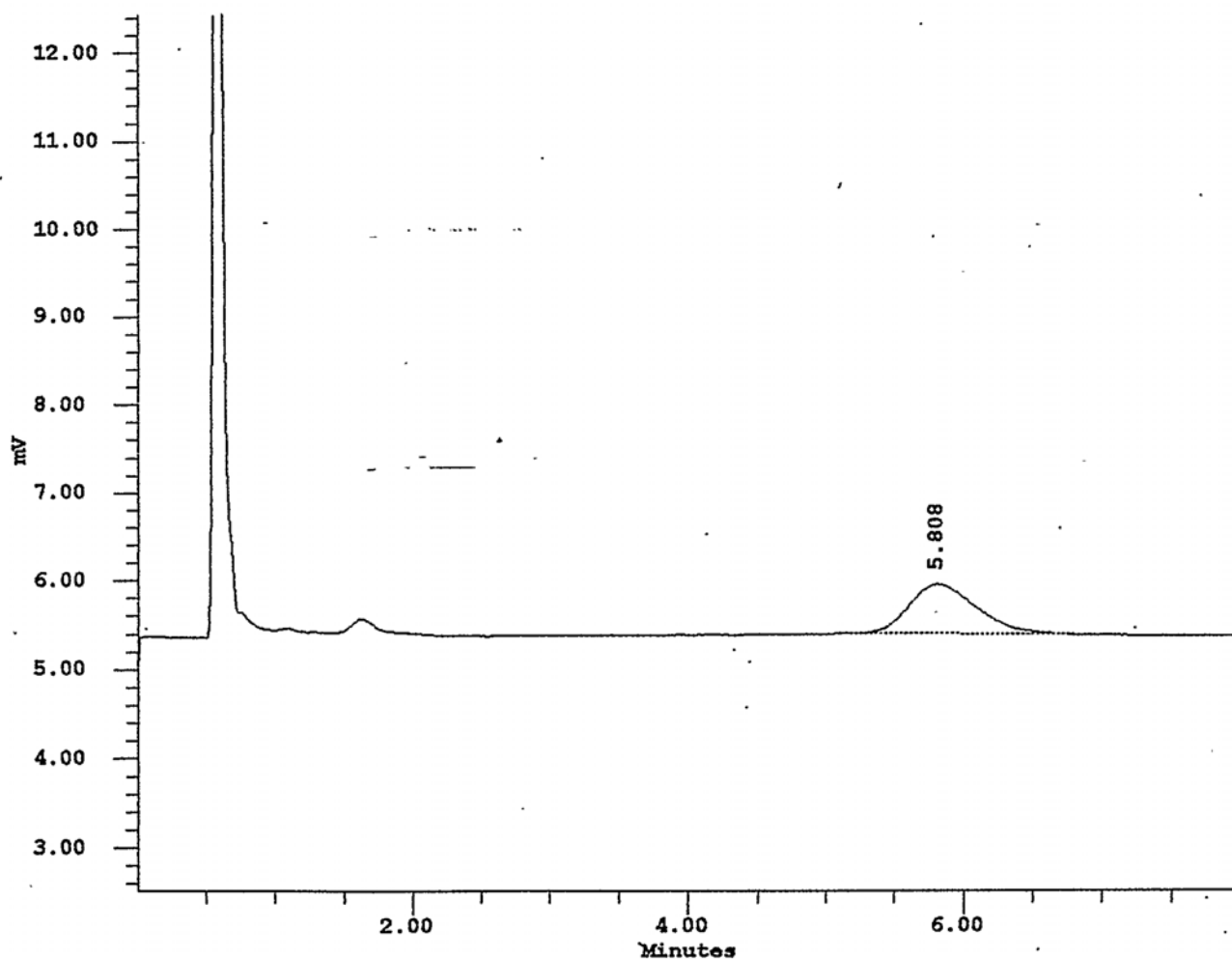
Run Time: 8.0 min

Date Acquired: 02/08/95 07:55 PM

Date Processed: 02/09/95 10:56 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.808		18816	555	100.00	100.00

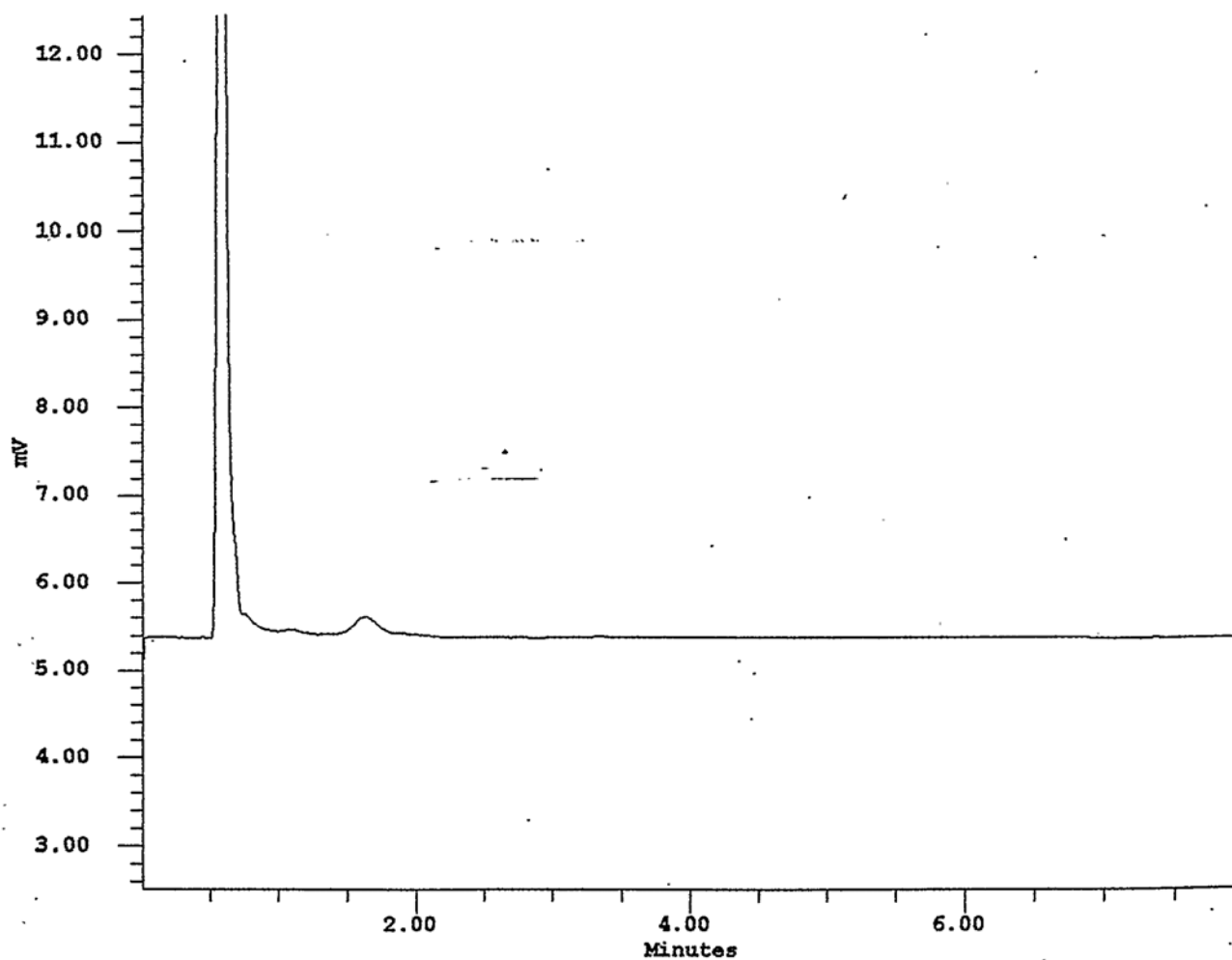
For Sample: 42blood

Vial: 42 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:56 AM

Project Name: cations_md
 Sample Name: 42blood
 Channel: SIM Ch2
 Date Acquired: 02/08/95 08:05 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/09/95 10:56 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

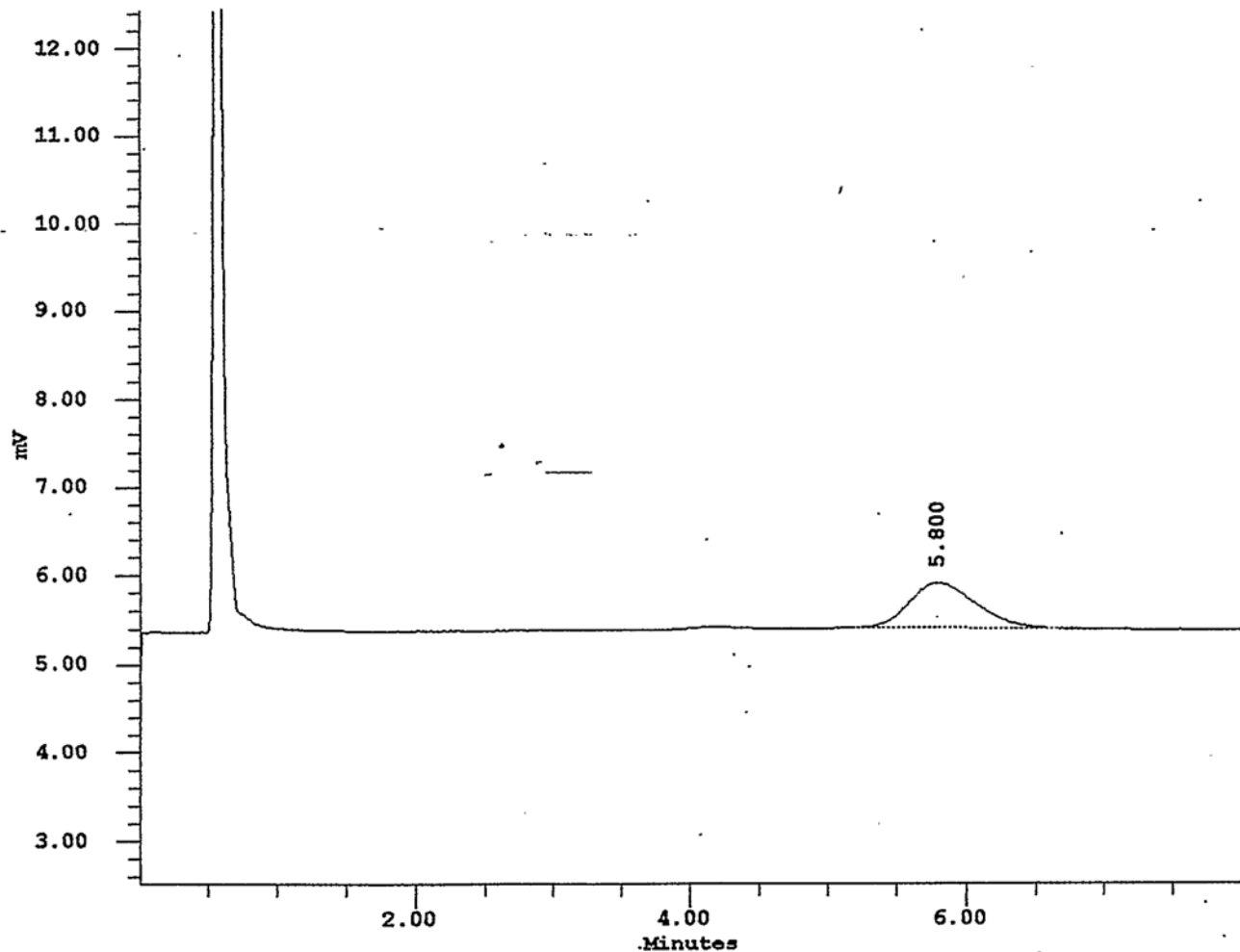
For Sample: 50ppmstd

Vial: 1 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:56 AM

Project Name: cations_md
 Sample Name: 50ppmstd
 Channel: SIM Ch2
 Date Acquired: 02/08/95 08:16 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/09/95 10:56 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.800		16842	504	100.00	100.00

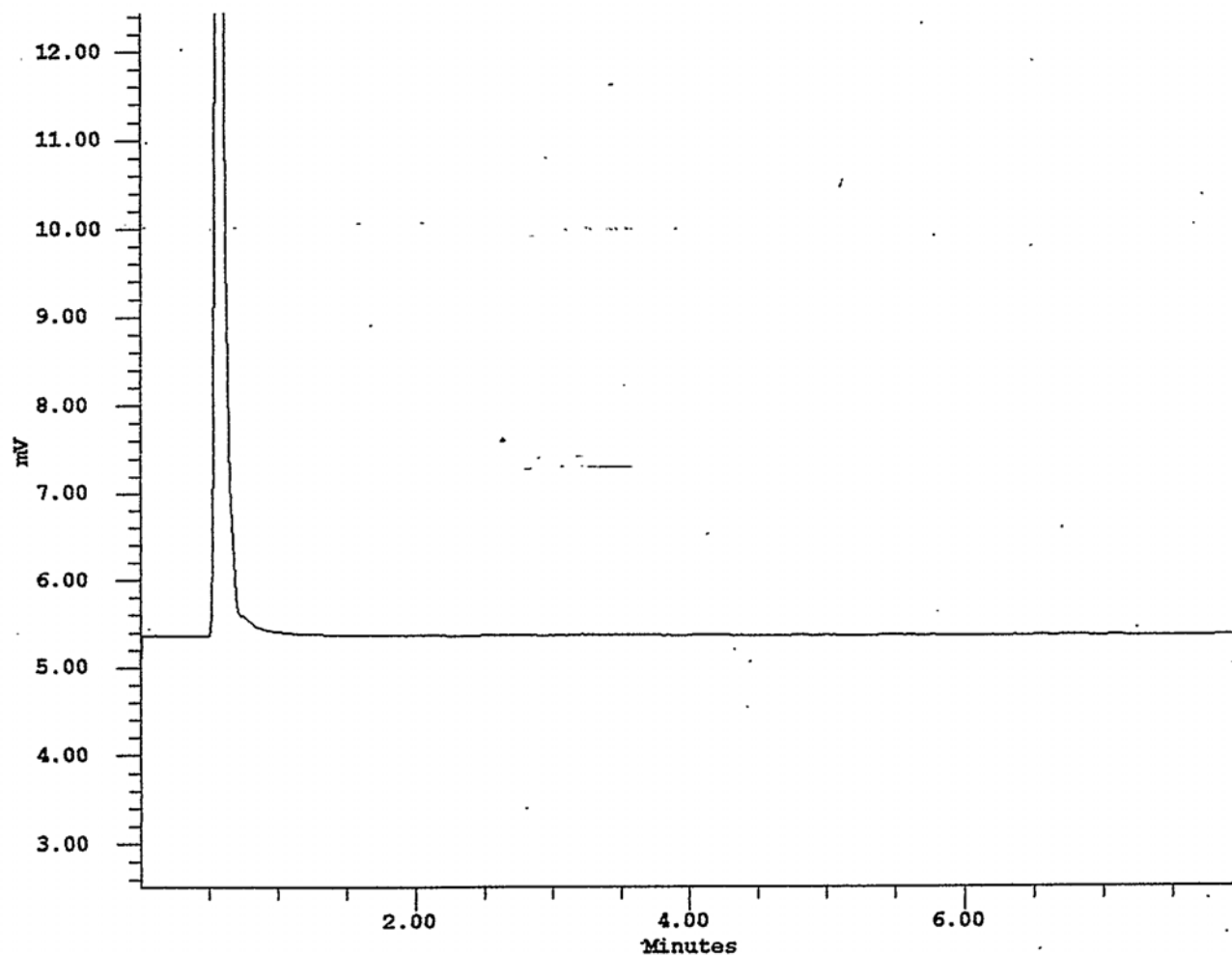
For Sample: blank

Vial: 2 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:55 AM

Project Name: cations_md
 Sample Name: blank
 Channel: SIM Ch2
 Date Acquired: 02/08/95 08:26 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/09/95 10:55 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

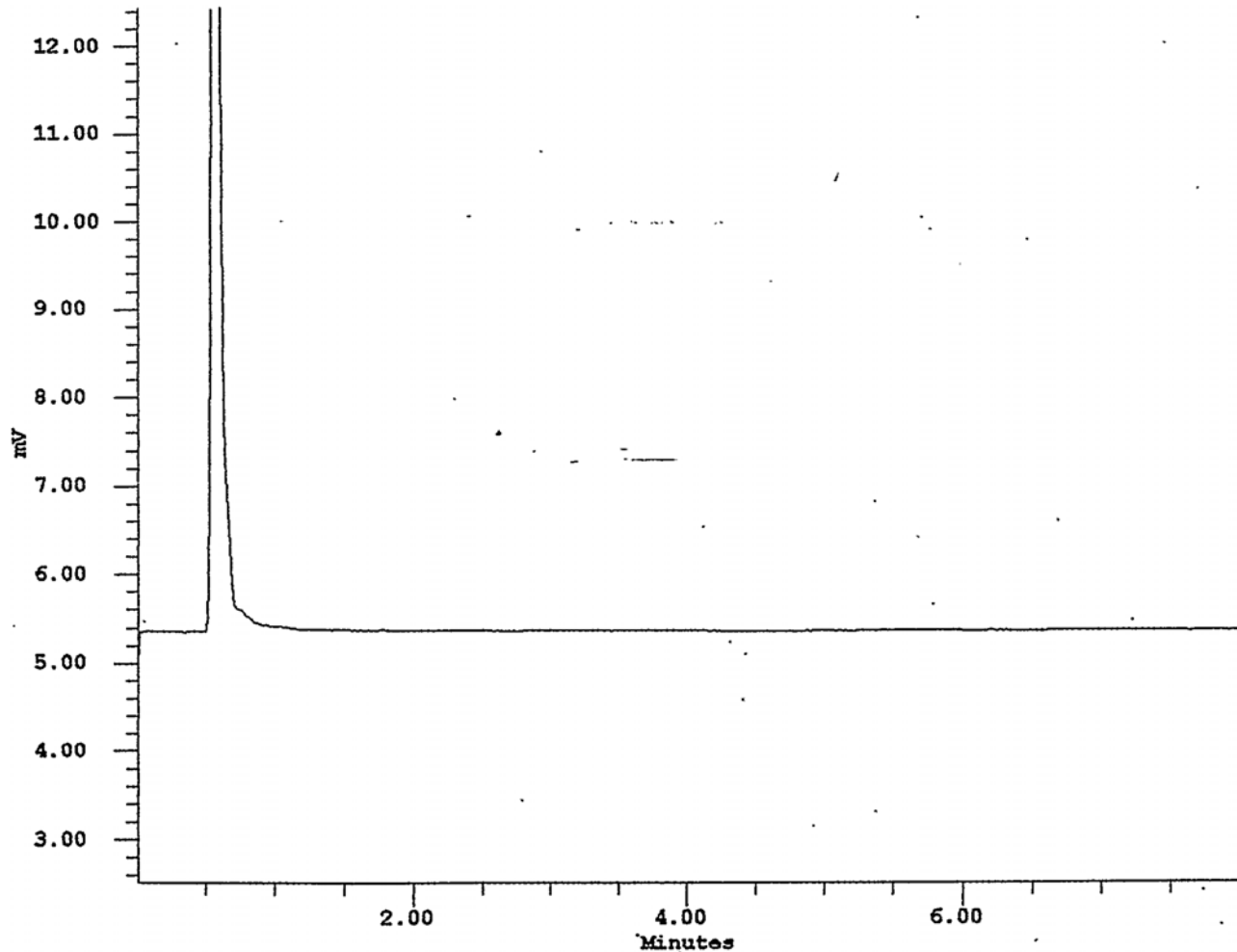
For Sample: 44c.

Vial: 6 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:55 AM

Project Name: cations_md
 Sample Name: 44c.
 Channel: SIM Ch2
 Date Acquired: 02/08/95 08:36 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 25.00
 Run Time: 8.0 min
 Date Processed: 02/09/95 10:55 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 43blood

Vial: 43 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:55 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 43blood

Volume: 25.00

Channel: SIM Ch2

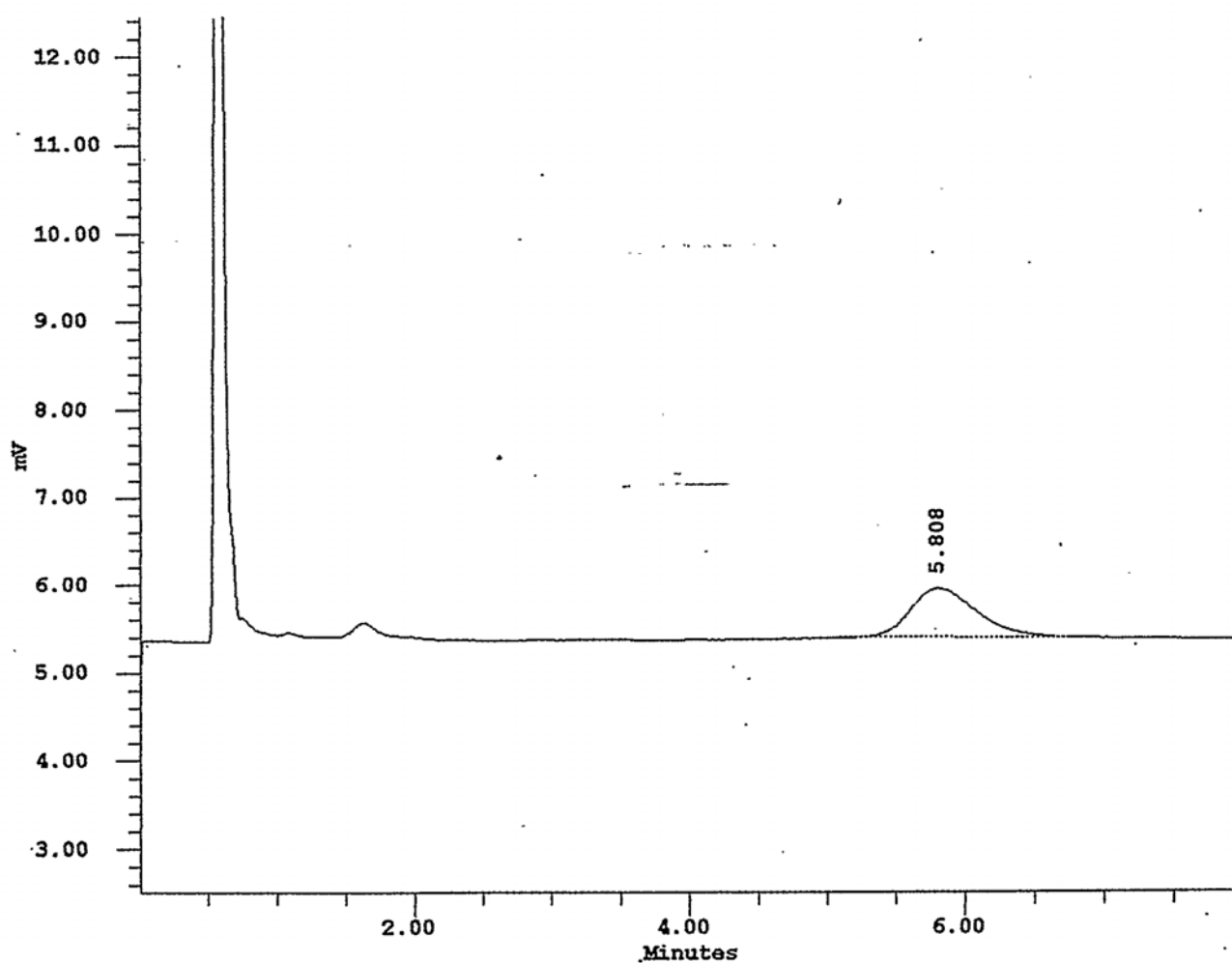
Run Time: 8.0 min

Date Acquired: 02/08/95 08:46 PM

Date Processed: 02/09/95 10:55 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.808		19120	567	100.00	100.00

For Sample: 44blood

Vial: 44 Inj: 1 Chan: SIM Ch2

Date Processed 02/09/95 10:54 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 44blood

Volume: 25.00

Channel: SIM Ch2

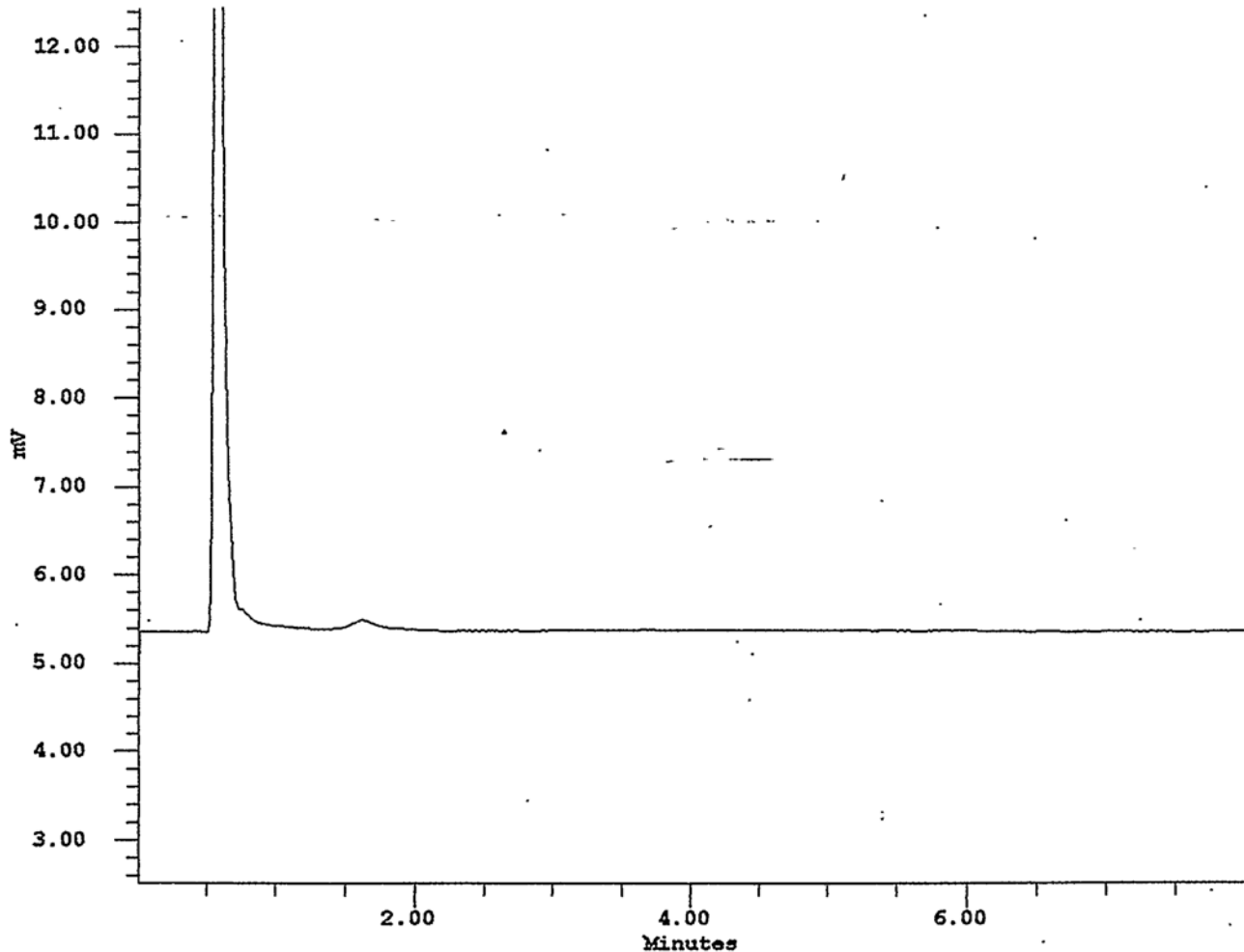
Date Acquired: 02/08/95 08:56 PM

Run Time: 8.0 min

Date Processed: 02/09/95 10:54 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

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3/1/95

Ran case samples w/ [] injection

b6 -1

b7C -1

size was reduced to 10ul & was changed

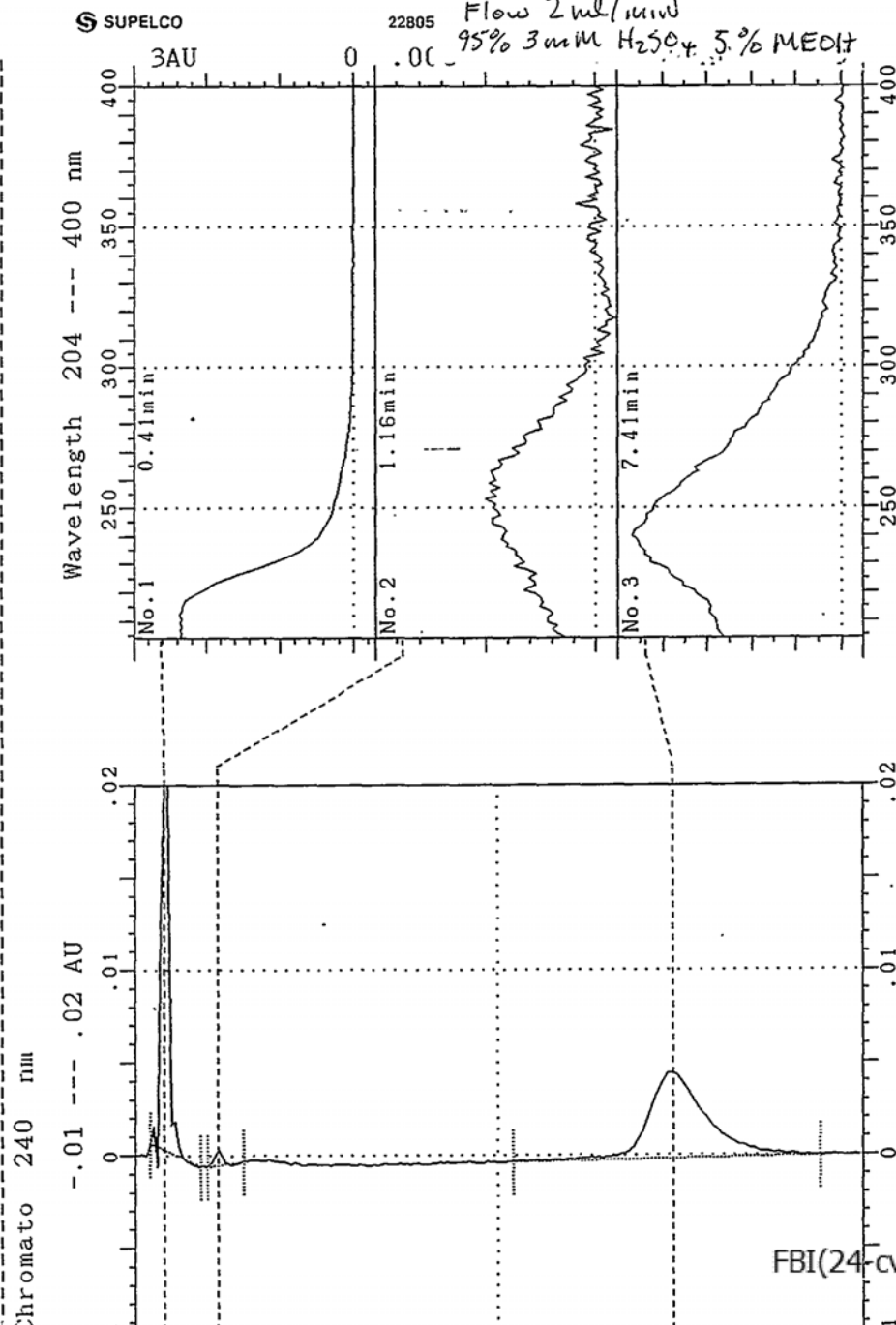
to 243 nm as per lab results which were

Ran previously on a different [] using a diode array detector

RPX100 100 cm
Flow 2 ml/min
95% 3mm H₂O + 5% MeOH

Waters
990

lex plot (peak) correct
Sample name
Paper speed 5ul bloodst
Wavelength 10 nm/min
Auto gain 204 --- 400 nm
Column mm ID * mm
Packing material ml/min
Mobile phase
Flow rate
Pressure
Y-scale < 2 AUX > 1 V /FS
Time offset 0 min
Fluorescence 1
< 4 AUX >
(Disabled)
16:55:50
03 AU/FS
-05 AU/min
135 msec *4
normal
1.4 nm
10 min
3.02 sec
10 min
1 V /FS
0 min
1 AUX >
1 V /FS
0 min
3 AUX >
(Disabled)



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Sensitivity Study

A series of concentrations were examined to determine detection limits for the method.

Samples were prepared at 0, 1, 5, 10, 50, 100, 250, 500 ppm using the following method:

100 mm PRP X 100 95 3 mL H_2SO_4
5 μ EDT

Flow = 2 mL/min $\lambda = 243$ nm
Injection = 10 μ l

Minimum detectable quantity $\approx$ 5 ppm or

$$\frac{5 \text{ mg}}{L} \times 10 \times 10^{-6} = 50 \text{ ng EDTA}$$

To Page No. _____

Witnessed & Understood by me,

Date

Invented by

Date

FBI(24-cv-1564)-3228

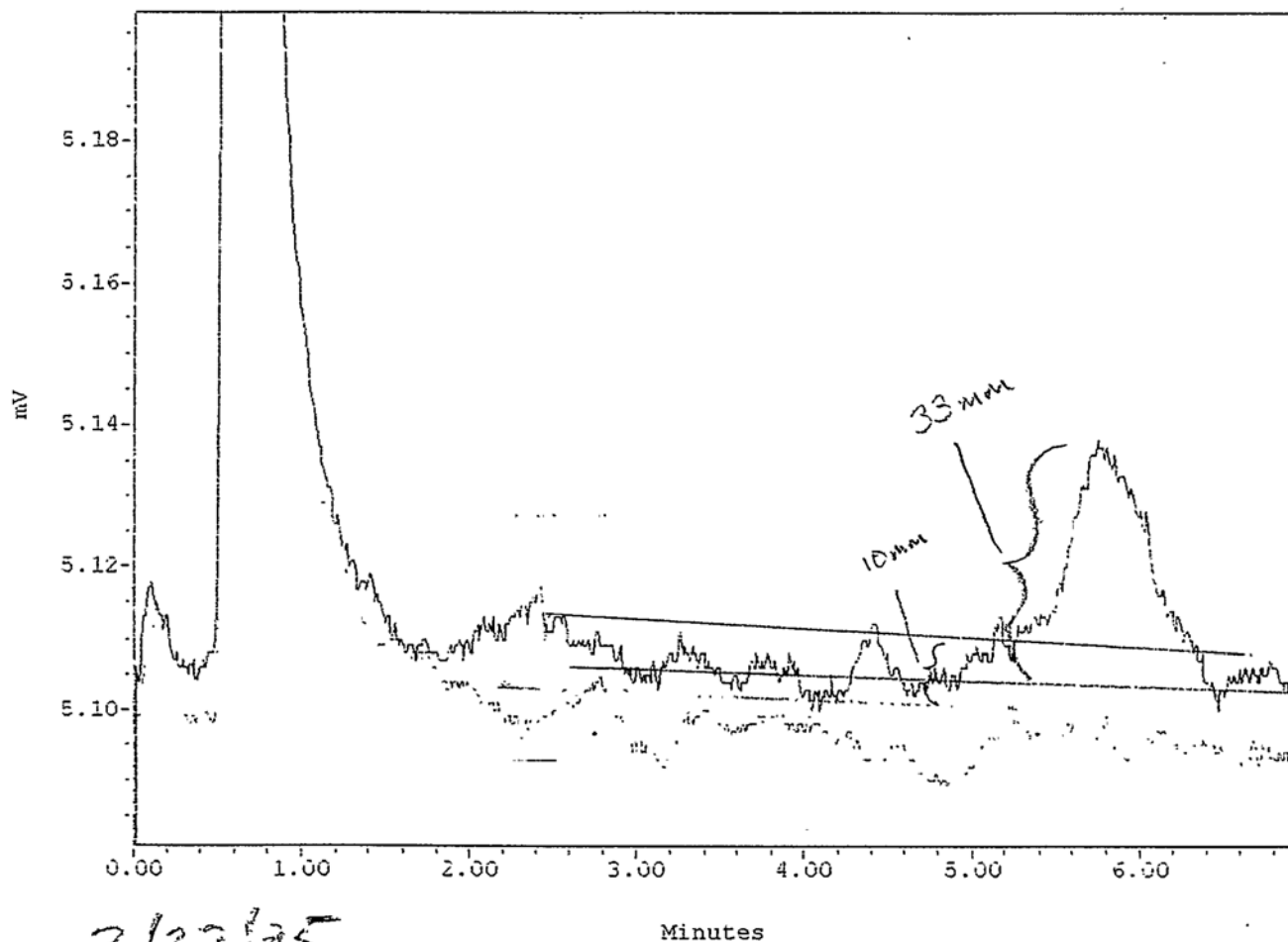
Project No. _____

Book No. _____

TITLE _____

m Page No. _____

•• Minimum detectable quantity = 5 ppm EDTA



SampleName: 5ppm edta Vial: 2 Inj: 3 Ch: SIM Ch2 Type: Unknown

To Page No. _____

nessed & Understood by me,

Date

Invented by

Date

FBI(24-cv-1564)-3229

m Page No. _____

Results - Linearity study

	AREA	
500 ppm	111501	110969
250 ppm	54112	53876
100 ppm	25840*	25085* 24963*
50 ppm	9806†	9011†
10 ppm	1616†	1534†
5 ppm	604†	564†
1 ppm	—	—

Notes

— not detected

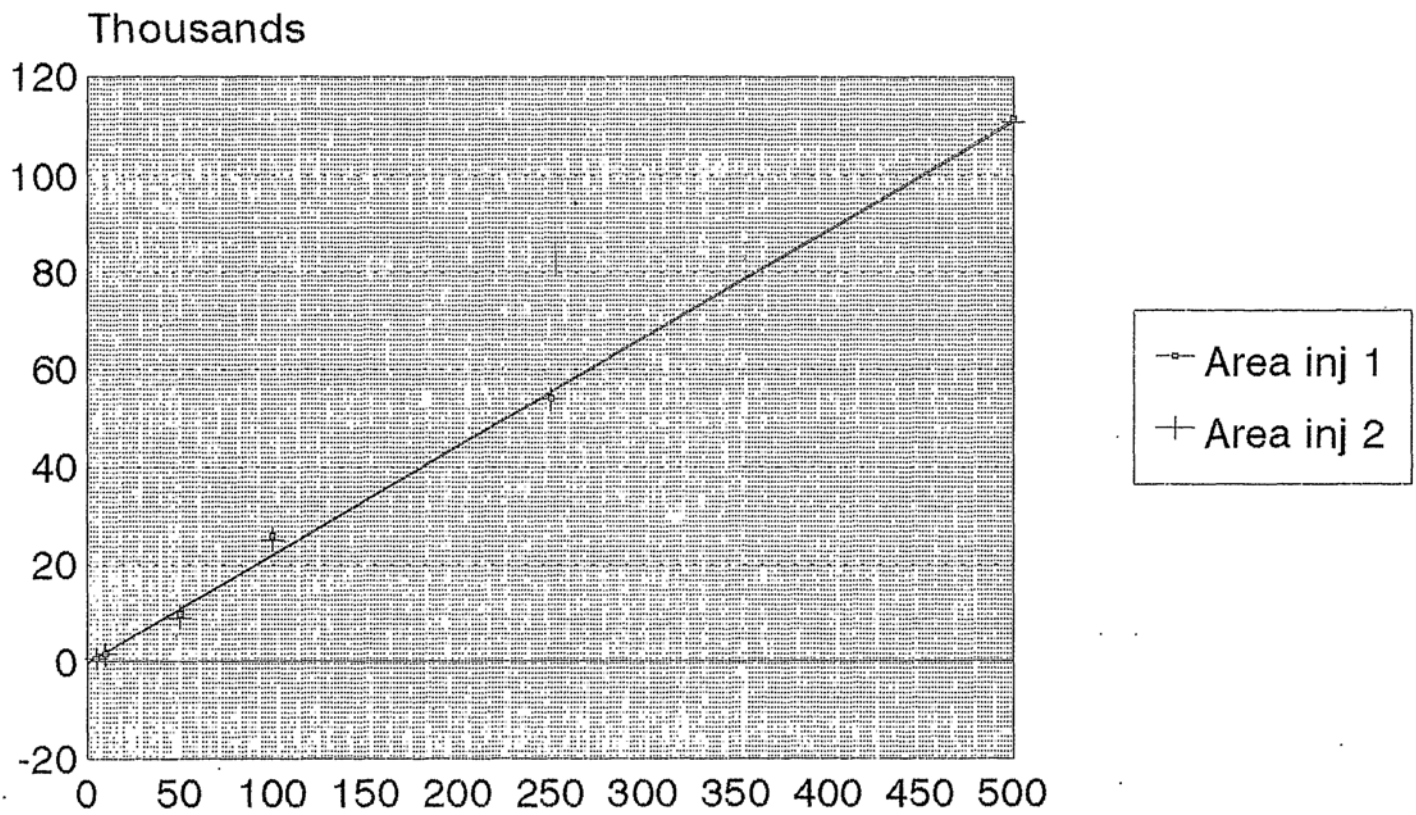
† prepared from a different standard

* re run as original sample was pipeted
as 500 ppm

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Conc vs area

CuEDTA



For Sample: blank

Vial: 3 Inj: 1 Chan: SIM Ch2

Date Processed 02/27/95 02:06 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: blank

Volume: 10.00

Channel: SIM Ch2

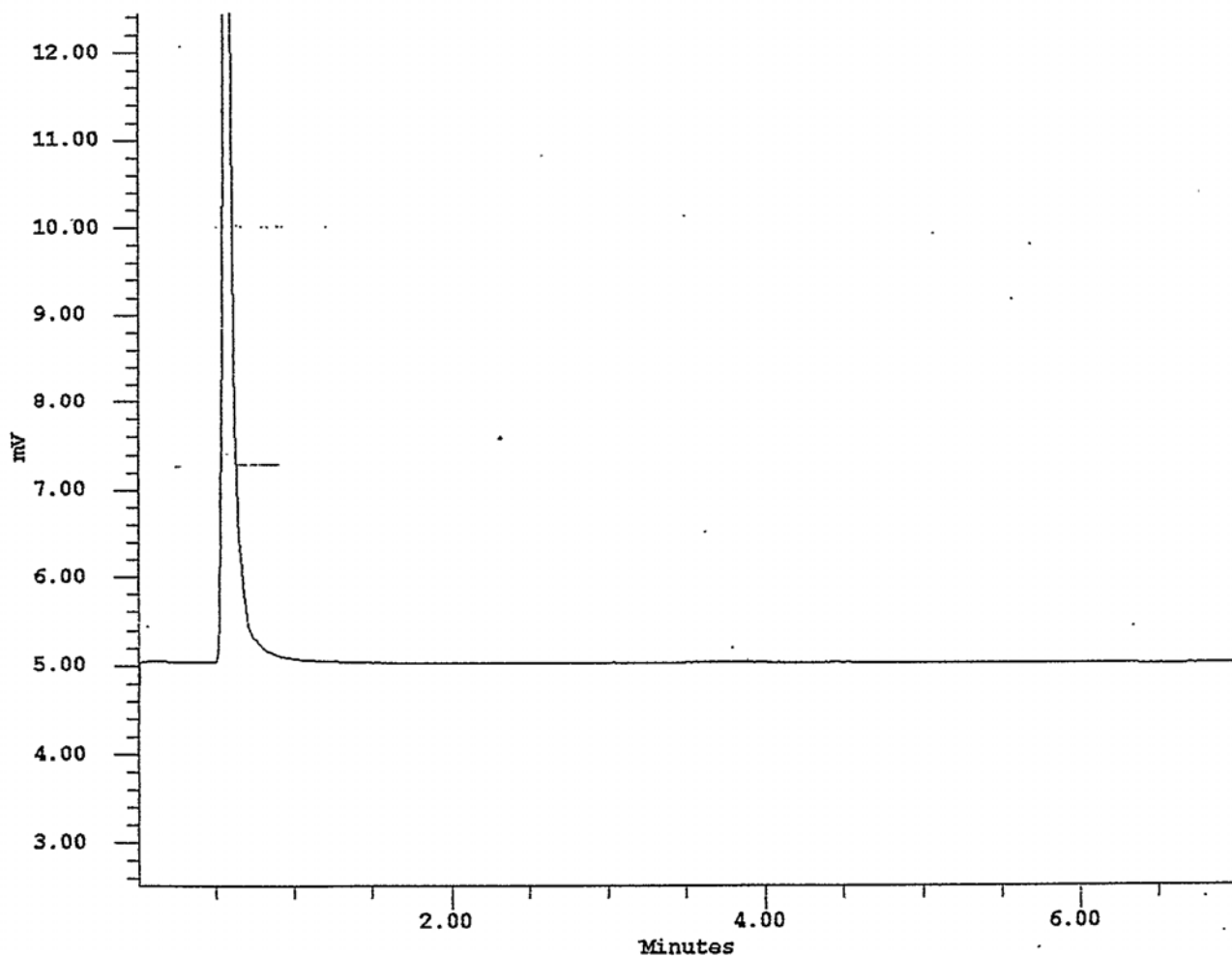
Run Time: 7.0 min

Date Acquired: 02/27/95 01:58 PM

Date Processed: 02/27/95 02:06 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

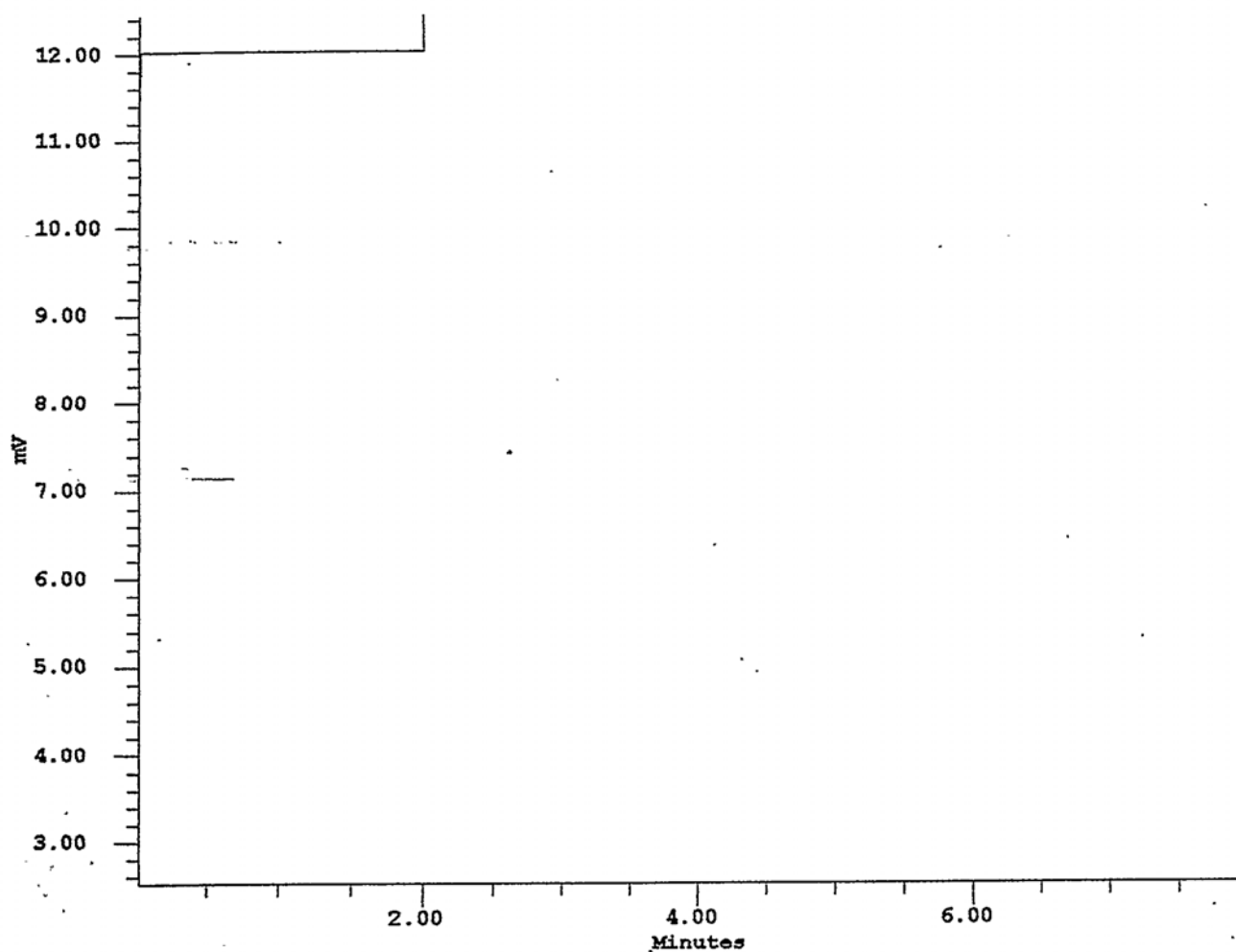
For Sample: ctrl

Vial: 1 Inj: 1 Chan: SIM Ch2

Date Processed 02/28/95 10:33 AM

Project Name: cations_md
 Sample Name: ctrl
 Channel: SIM Ch2
 Date Acquired: 02/28/95 10:22 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 10.00
 Run Time: 10.0 min
 Date Processed: 02/28/95 10:33 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: ctrl

Vial: 1 Inj: 2 Chan: SIM Ch2

Date Processed 02/28/95 10:45 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: ctrl

Volume: 10.00

Channel: SIM Ch2

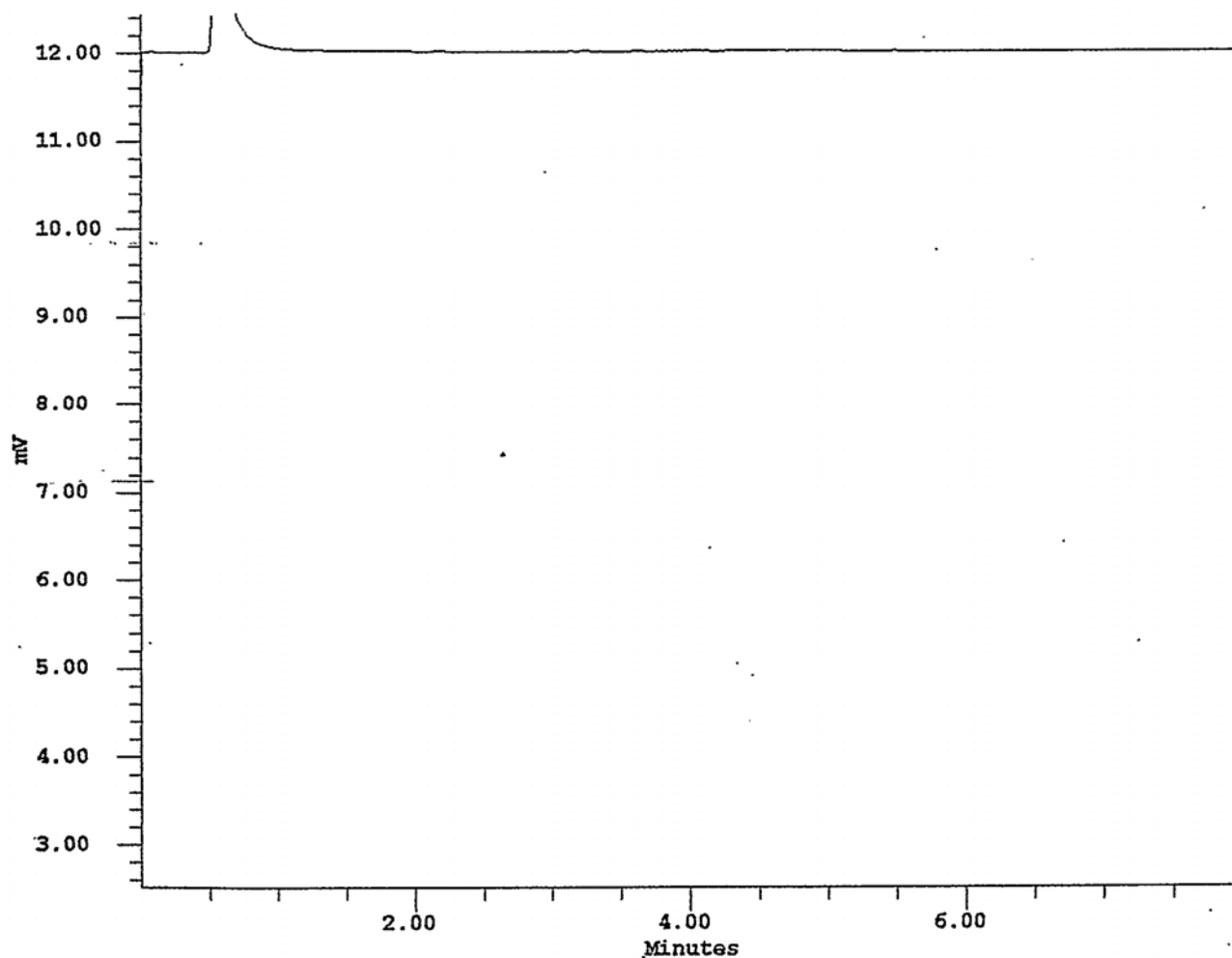
Run Time: 10.0 min

Date Acquired: 02/28/95 10:34 AM

Date Processed: 02/28/95 10:45 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 1ppm

Vial: 2 Inj: 1 Chan: SIM Ch2

Date Processed 02/28/95 10:57 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 1ppm

Volume: 10.00

Channel: SIM Ch2

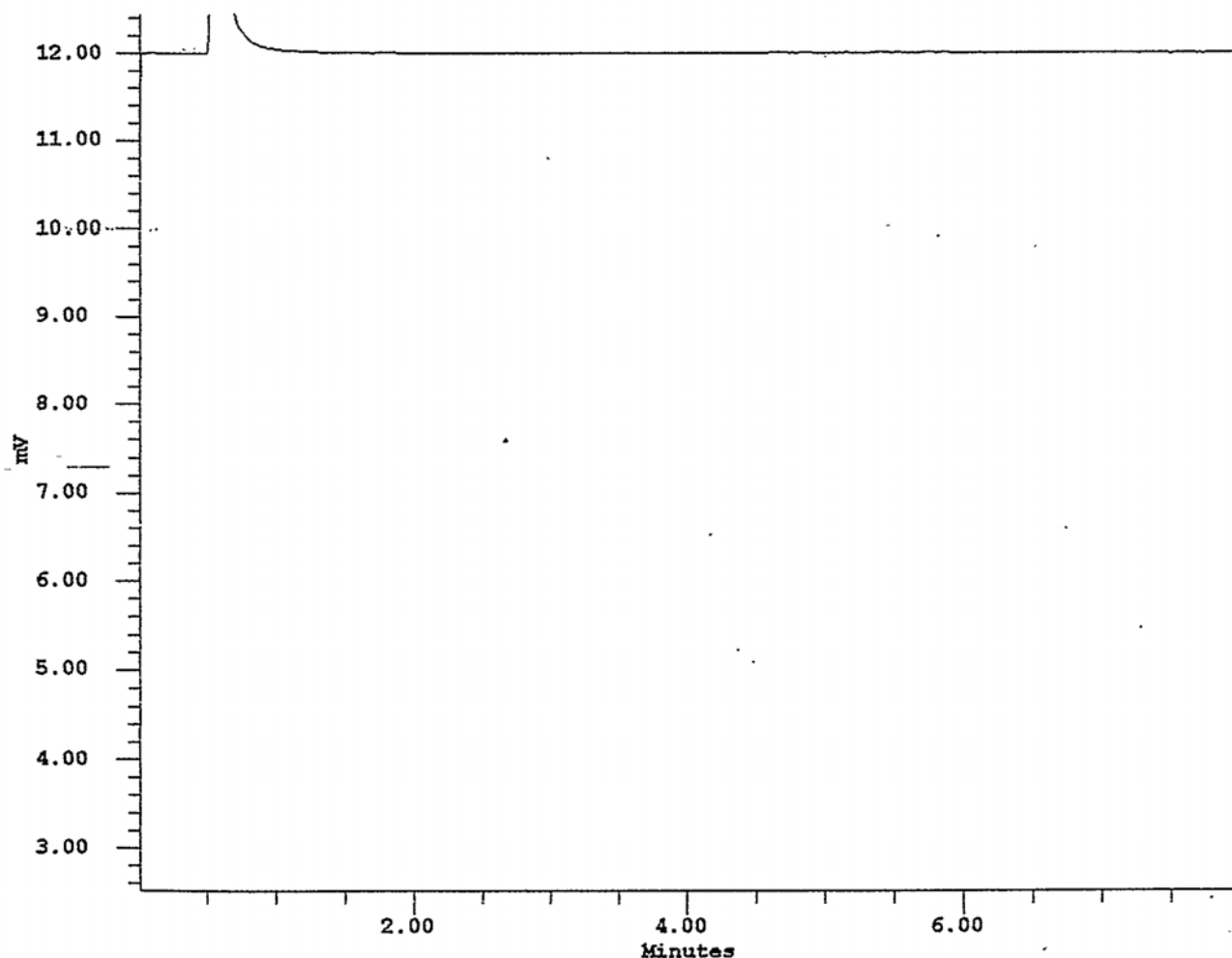
Date Acquired: 02/28/95 10:46 AM

Run Time: 10.0 min

Date Processed: 02/28/95 10:57 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 1ppm

Vial: 2 Inj: 2 Chan: SIM Ch2

Date Processed: 02/28/95 11:09 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 1ppm

Volume: 10.00

Channel: SIM Ch2

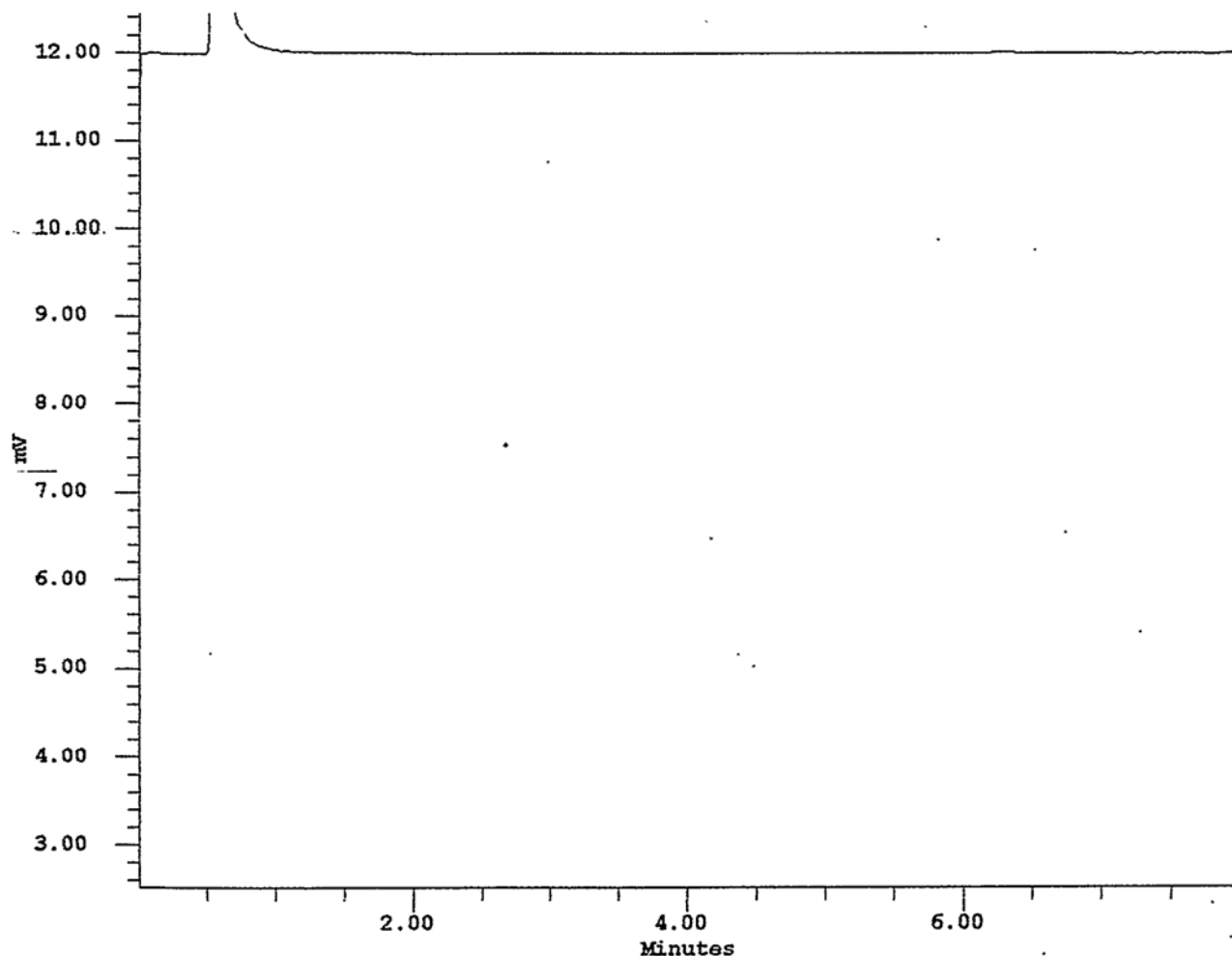
Date Acquired: 02/28/95 10:58 AM

Run Time: 10.0 min

Date Processed: 02/28/95 11:09 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: lppm

Vial: 2 Inj: 1 Chan: SIM Ch2

Date Processed 02/28/95 02:30 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: lppm

Volume: 10.00

Channel: SIM Ch2

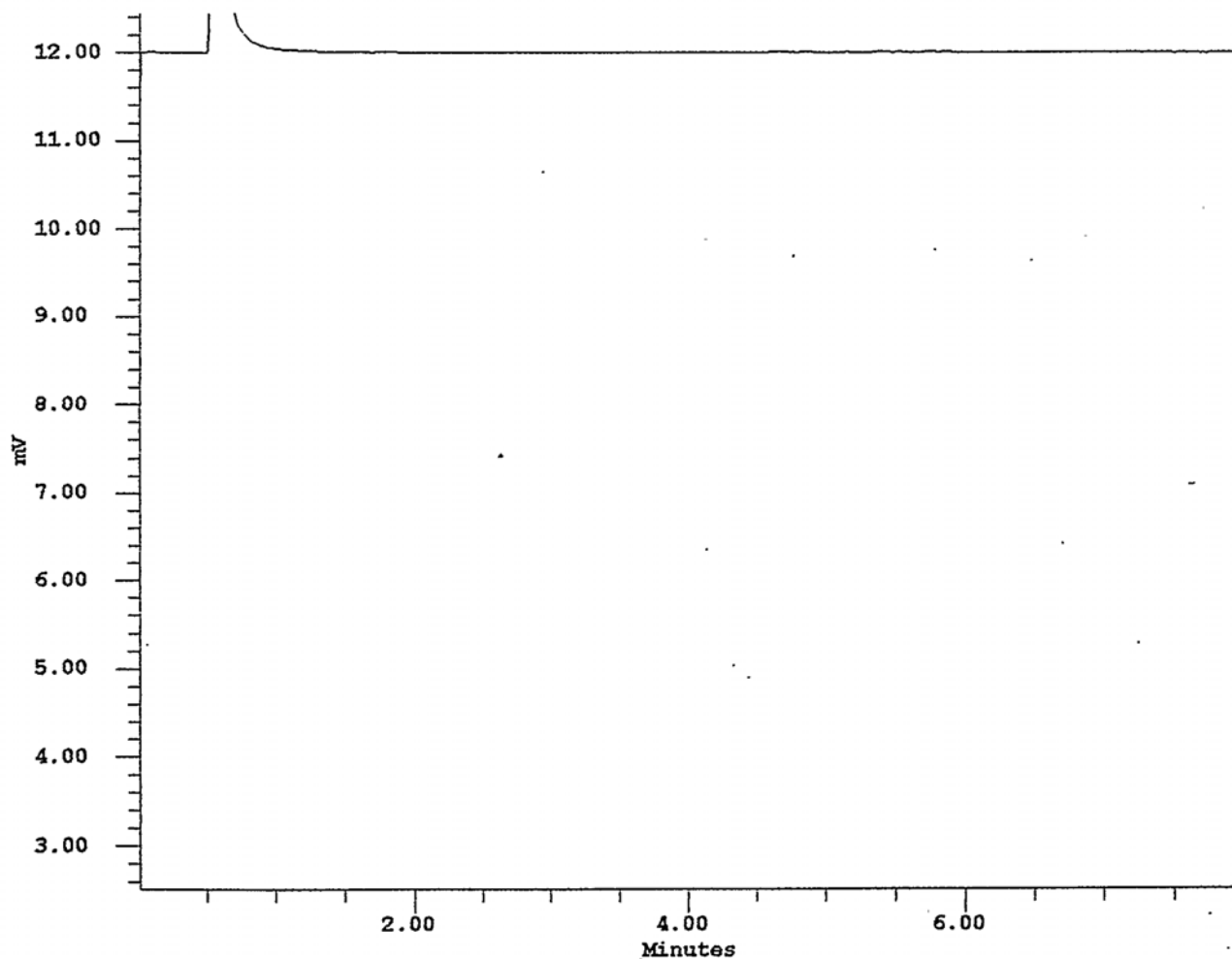
Date Acquired: 02/28/95 10:46 AM

Run Time: 10.0 min

Date Processed: 02/28/95 02:30 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 1ppm

Vial: 2 Inj: 2 Chan: SIM Ch2

Date Processed 02/28/95 02:29 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 1ppm

Volume: 10.00

Channel: SIM Ch2

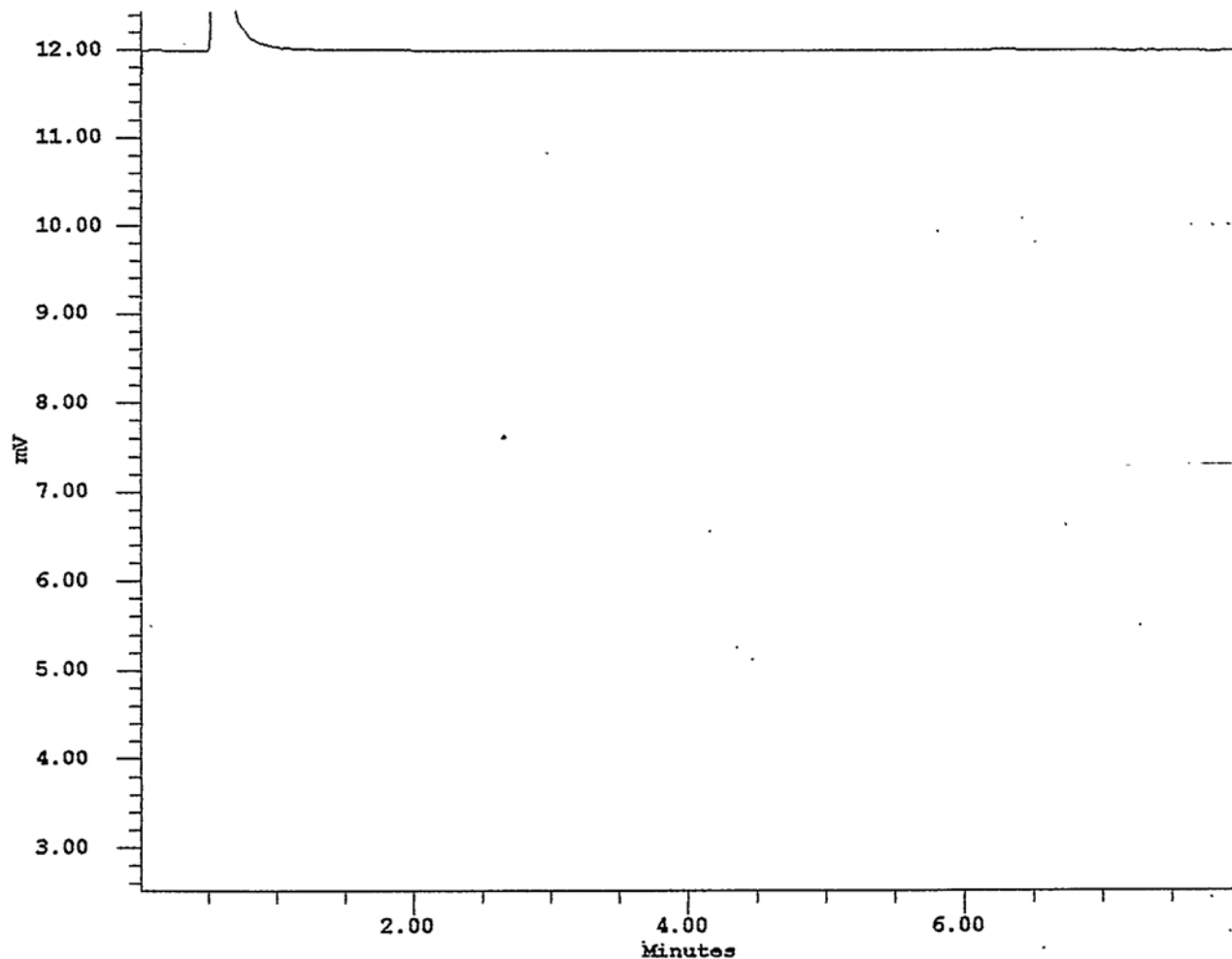
Run Time: 10.0 min

Date Acquired: 02/28/95 10:58 AM

Date Processed: 02/28/95 02:29 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

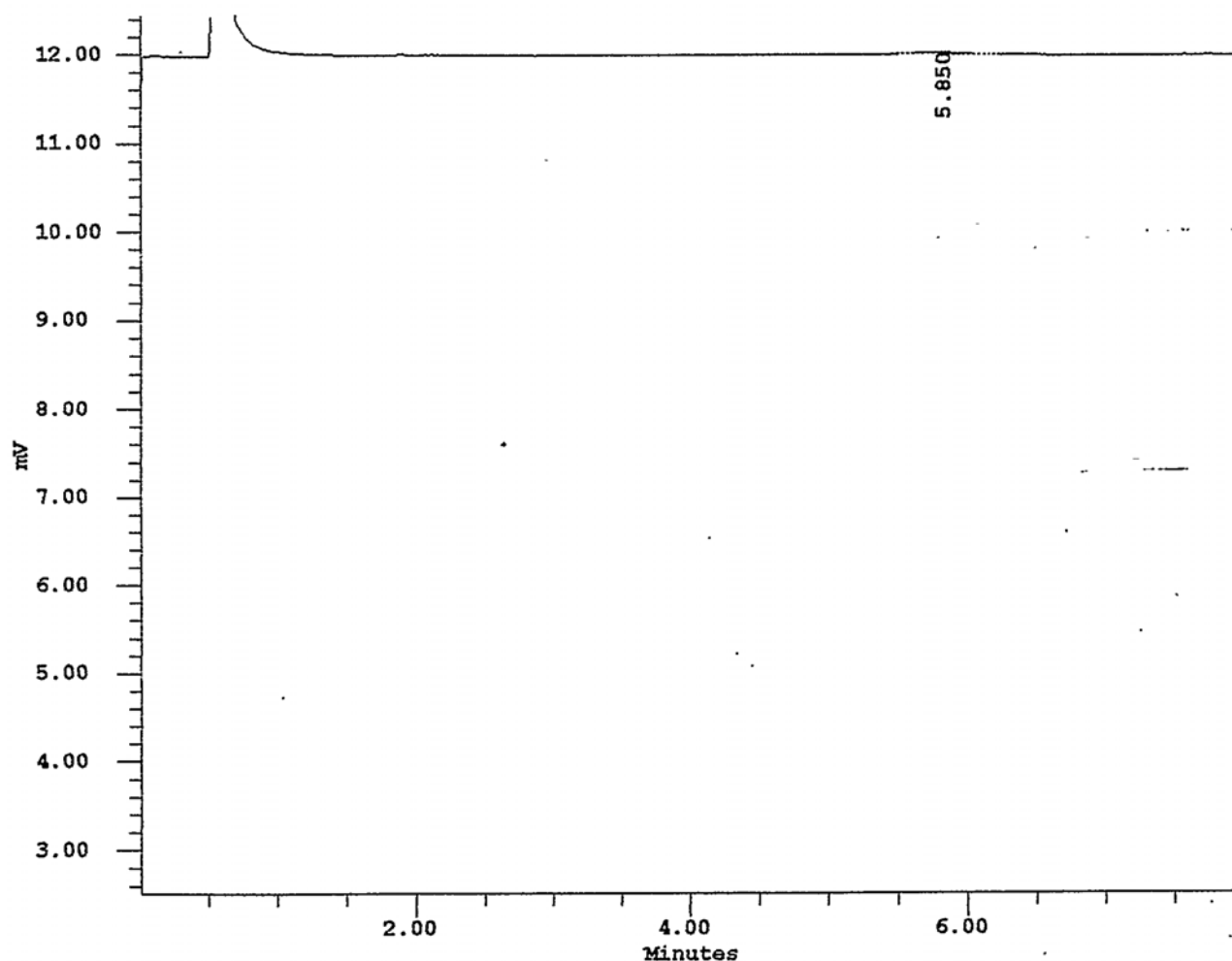
For Sample: 5ppm

Vial: 3 Inj: 1 Chan: SIM Ch2

Date Processed 02/28/95 02:29 PM

Project Name: cations_md
Sample Name: 5ppm
Channel: SIM Ch2
Date Acquired: 02/28/95 11:10 AM
Acq Meth Set: EDTA_METH_SET
Processing Method: EDTA_proc

Sample Type: Unknown
Volume: 10.00
Run Time: 10.0 min
Date Processed: 02/28/95 02:29 PM

*Peak Results*

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.850		564	23	100.00	100.00

For Sample: 5ppm

Vial: 3 Inj: 1 Chan: SIM Ch2

Date Processed 02/28/95 11:21 AM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 5ppm

Volume: 10.00

Channel: SIM Ch2

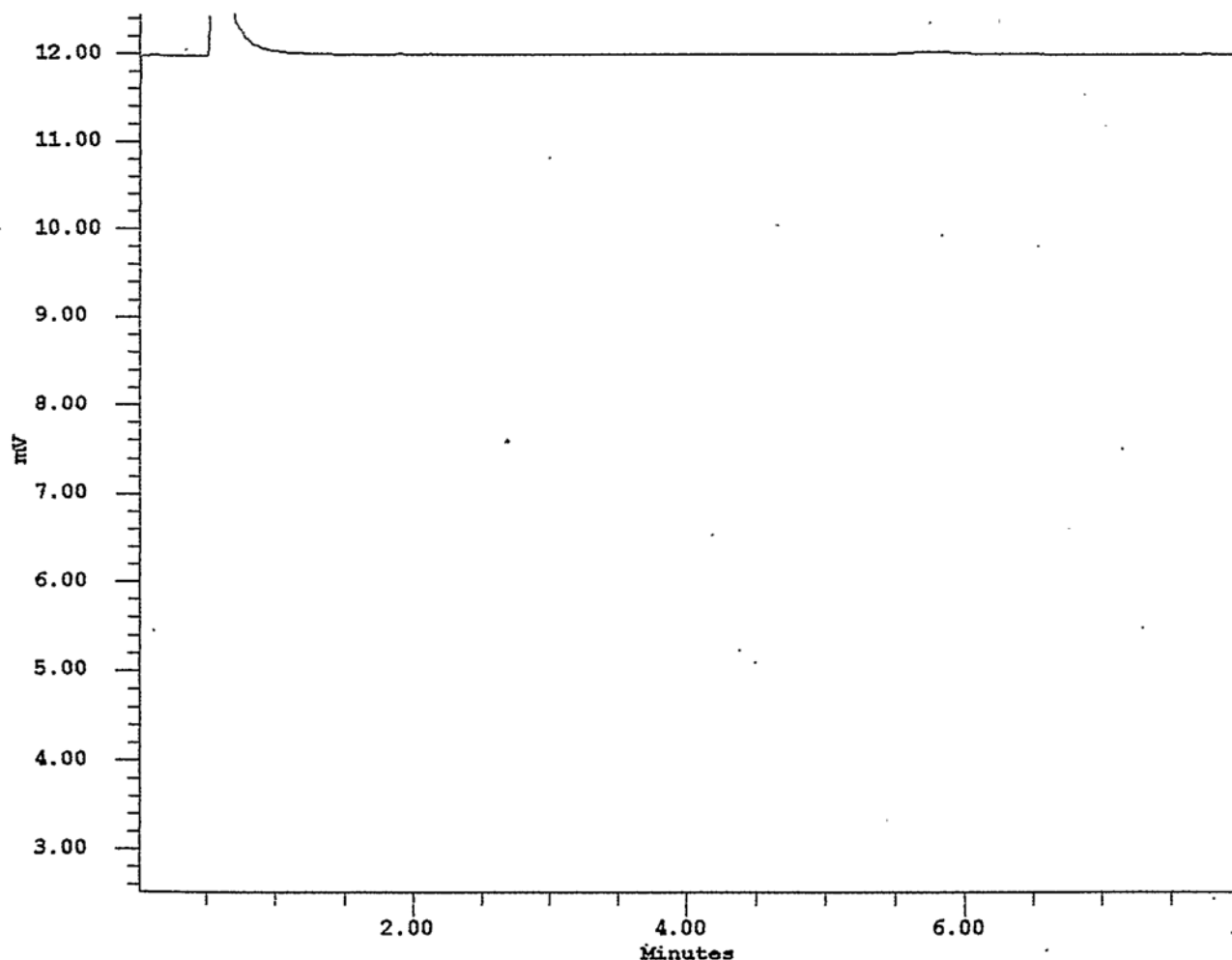
Run Time: 10.0 min

Date Acquired: 02/28/95 11:10 AM

Date Processed: 02/28/95 11:21 AM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

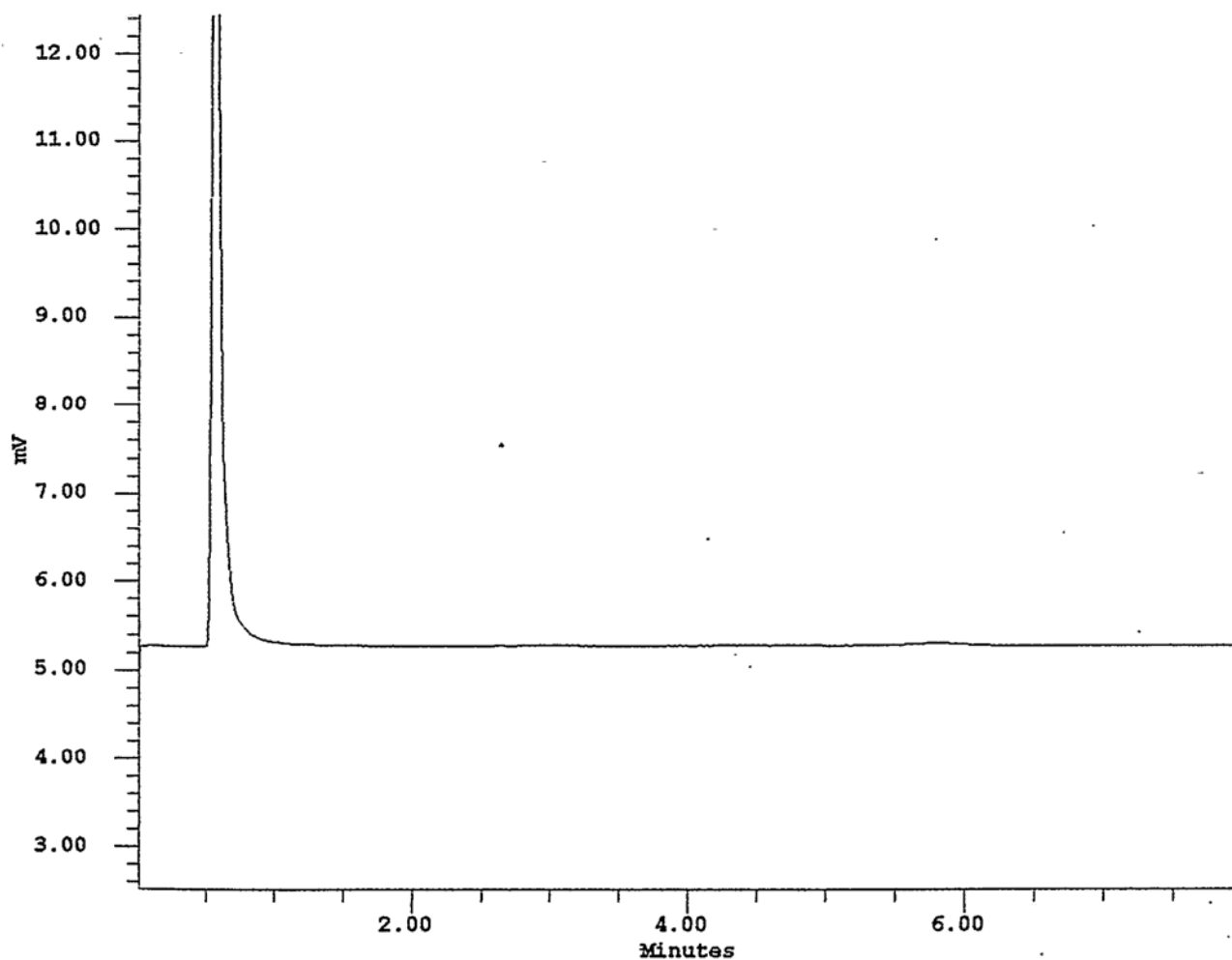
For Sample: 5ppm

Vial: 3 Inj: 2 Chan: SIM Ch2

Date Processed 02/28/95 11:32 AM

Project Name: cations_md
Sample Name: 5ppm
Channel: SIM Ch2
Date Acquired: 02/28/95 11:22 AM
Acq Meth Set: EDTA_METH_SET
Processing Method: EDTA_proc

Sample Type: Unknown
Volume: 10.00
Run Time: 10.0 min
Date Processed: 02/28/95 11:32 AM

*Peak Results*

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

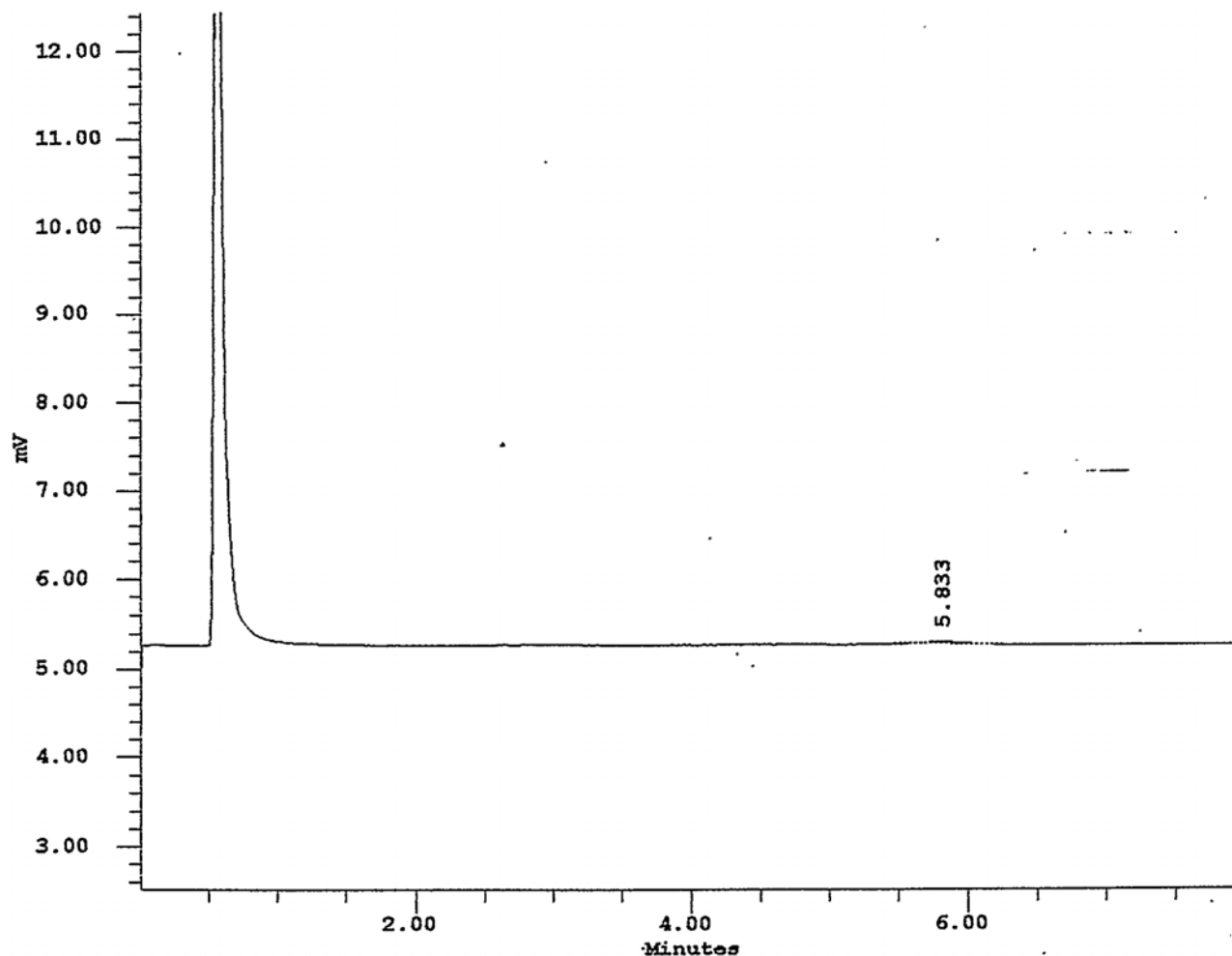
For Sample: 5ppm

Vial: 3 Inj: 2 Chan: SIM Ch2

Date Processed 02/28/95 02:29 PM

Project Name: cations_md
 Sample Name: 5ppm
 Channel: SIM Ch2
 Date Acquired: 02/28/95 11:22 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 10.00
 Run Time: 10.0 min
 Date Processed: 02/28/95 02:29 PM

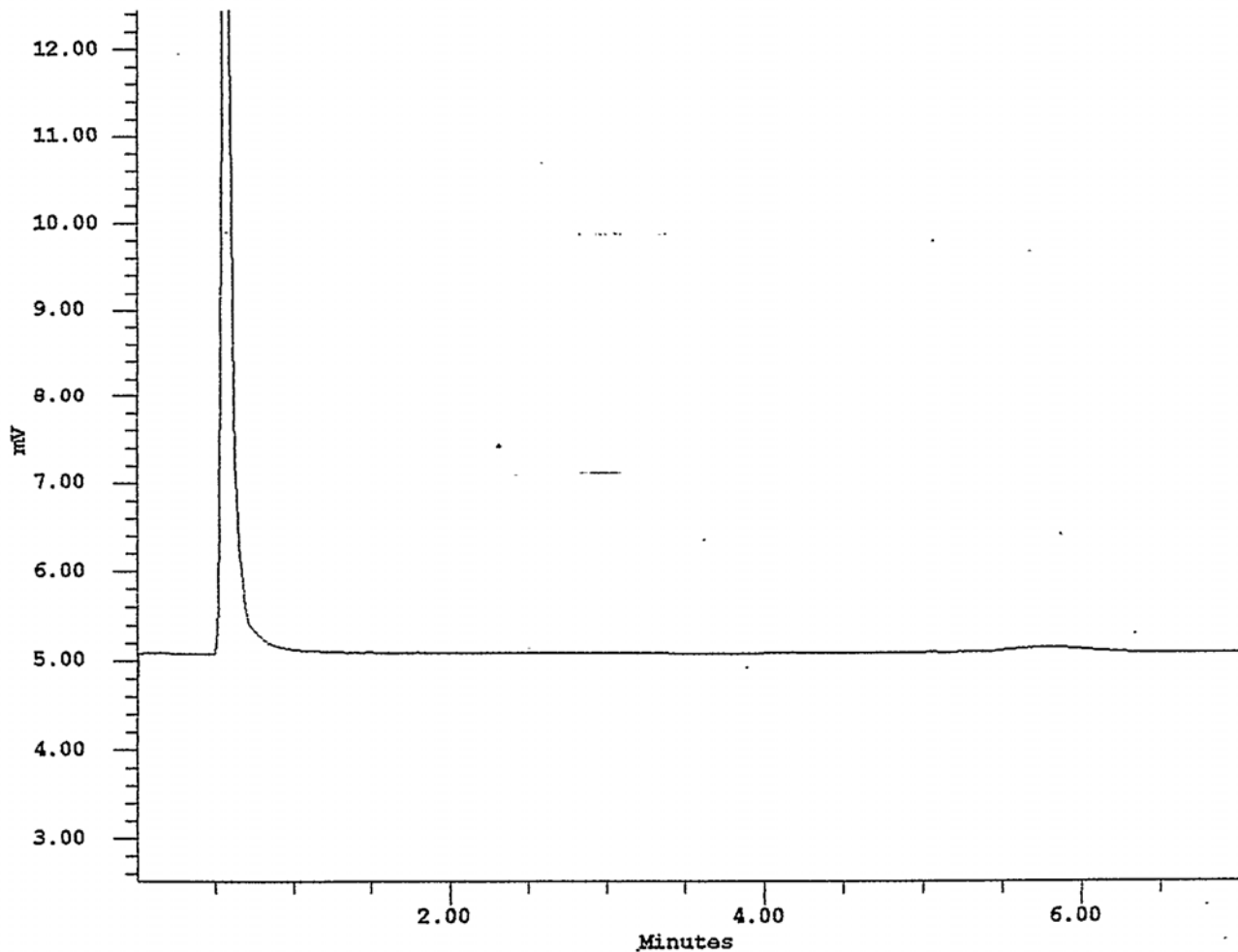


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.833		604	24	100.00	100.00

For Sample: 10ppm edta Vial: 4 Inj: 1 Chan: SIM Ch2 Date Processed 02/27/95 01:12 PM

Project Name:	cations_md	Sample Type:	Unknown
Sample Name:	10ppm edta	Volume:	10.00
Channel:	SIM Ch2	Run Time:	7.0 min
Date Acquired:	02/27/95 01:05 PM	Date Processed:	02/27/95 01:12 PM
Acq Meth Set:	EDTA_METH_SET		
Processing Method:	EDTA_proc		

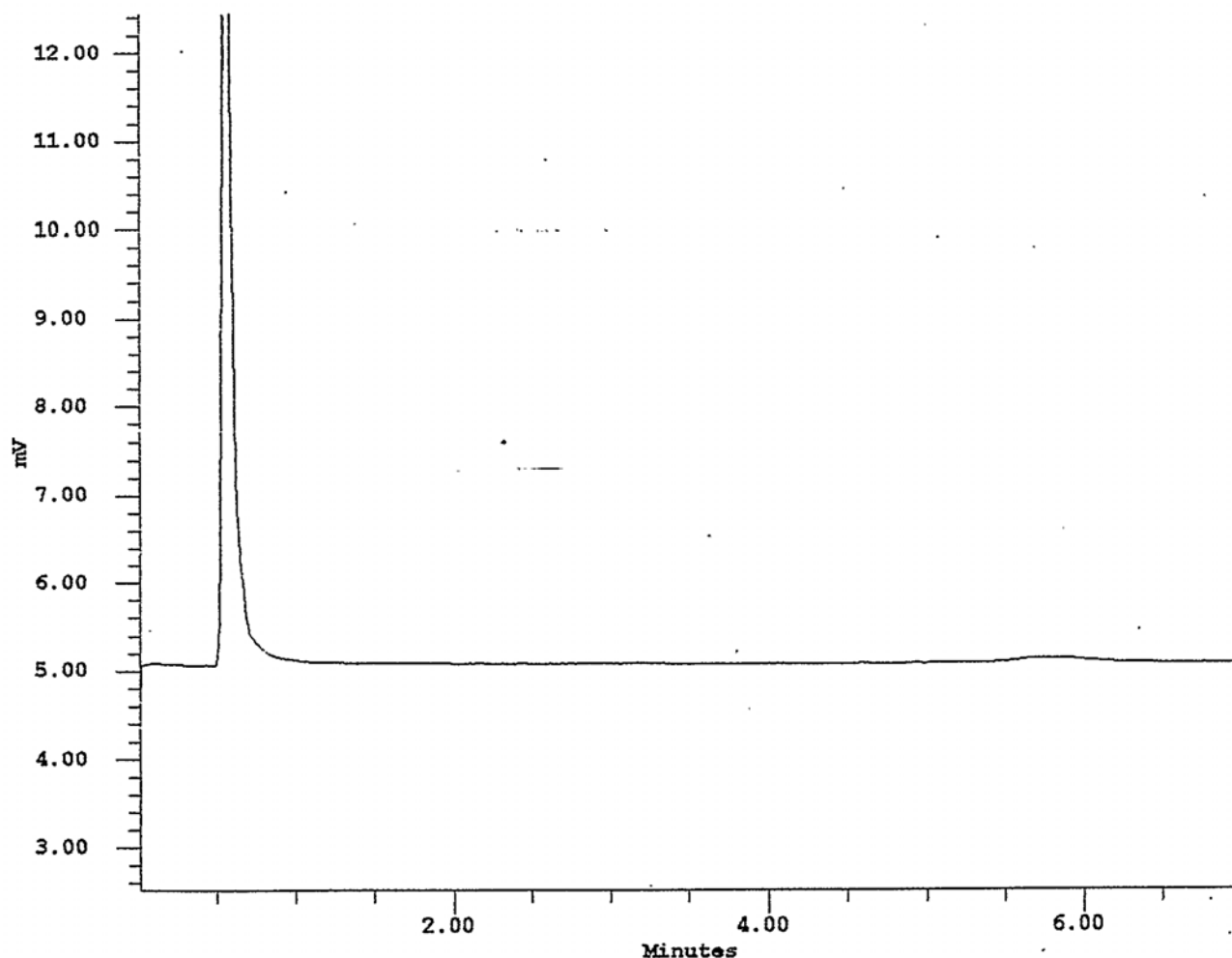


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 10ppm edta Vial: 4 Inj: 2 Chan: SIM Ch2 Date Processed 02/27/95 01:21 PM

Project Name: cations_md Sample Type: Unknown
 Sample Name: 10ppm edta Volume: 10.00
 Channel: SIM Ch2 Run Time: 7.0 min
 Date Acquired: 02/27/95 01:14 PM Date Processed: 02/27/95 01:21 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

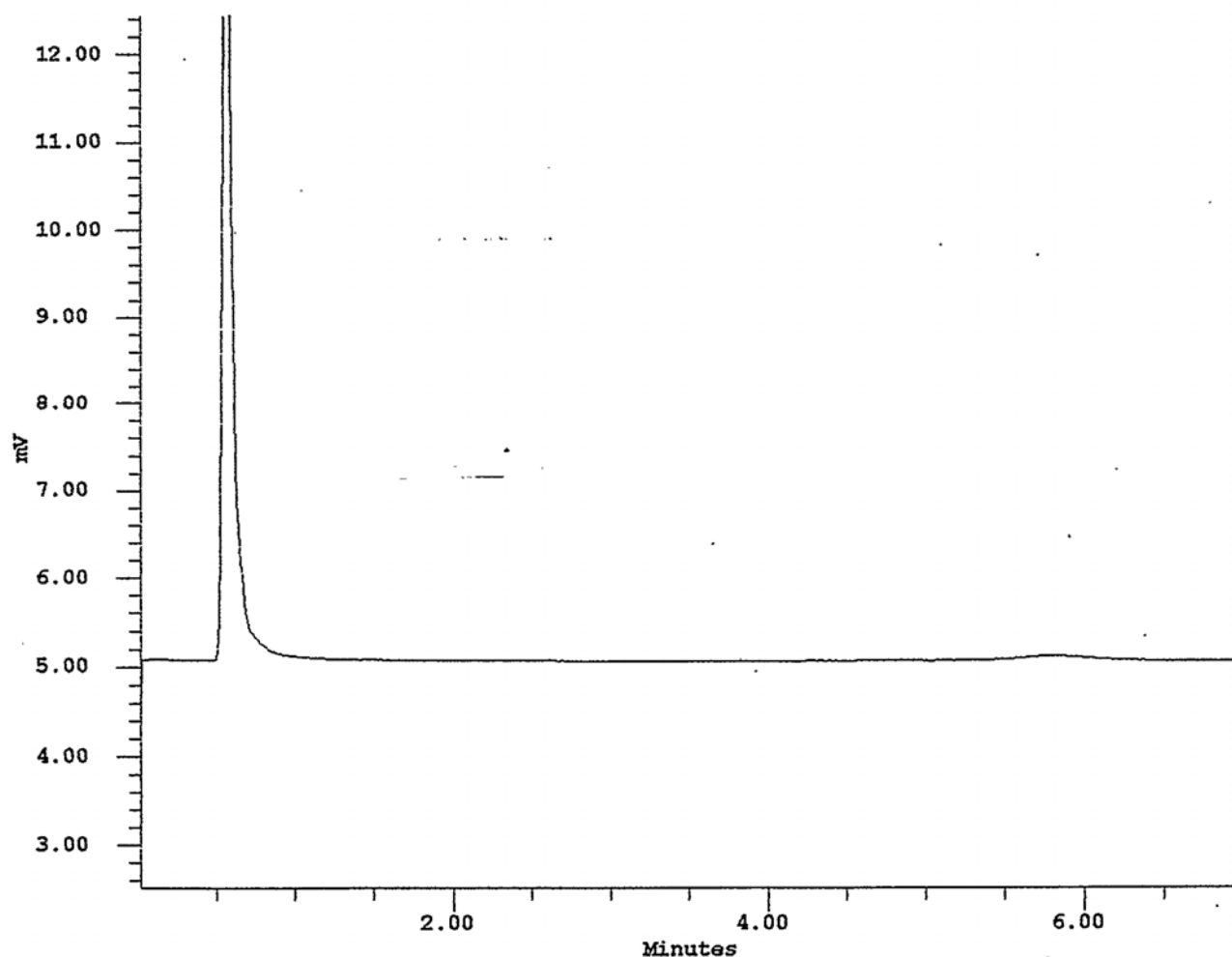


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 10ppm edta Vial: 4 Inj: 3 Chan: SIM Ch2 Date Processed 02/27/95 01:30 PM

Project Name: cations_md Sample Type: Unknown
 Sample Name: 10ppm edta Volume: 10.00
 Channel: SIM Ch2 Run Time: 7.0 min
 Date Acquired: 02/27/95 01:22 PM Date Processed: 02/27/95 01:30 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 10ppm

Vial: 4 Inj: 1 Chan: SIM Ch2

Date Processed 02/28/95 02:28 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 10ppm

Volume: 10.00

Channel: SIM Ch2

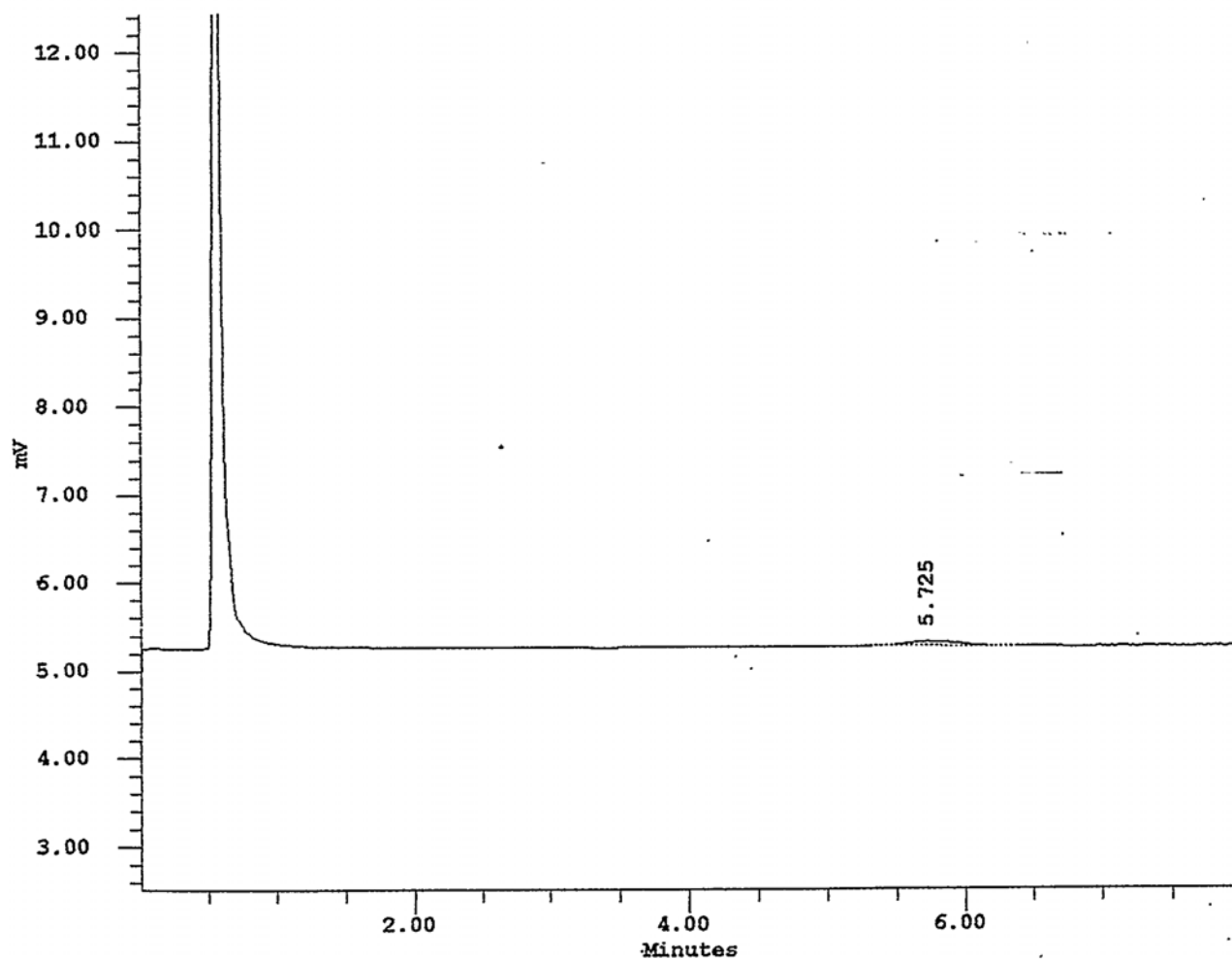
Run Time: 10.0 min

Date Acquired: 02/28/95 11:34 AM

Date Processed: 02/28/95 02:28 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.725		1534	54	100.00	100.00

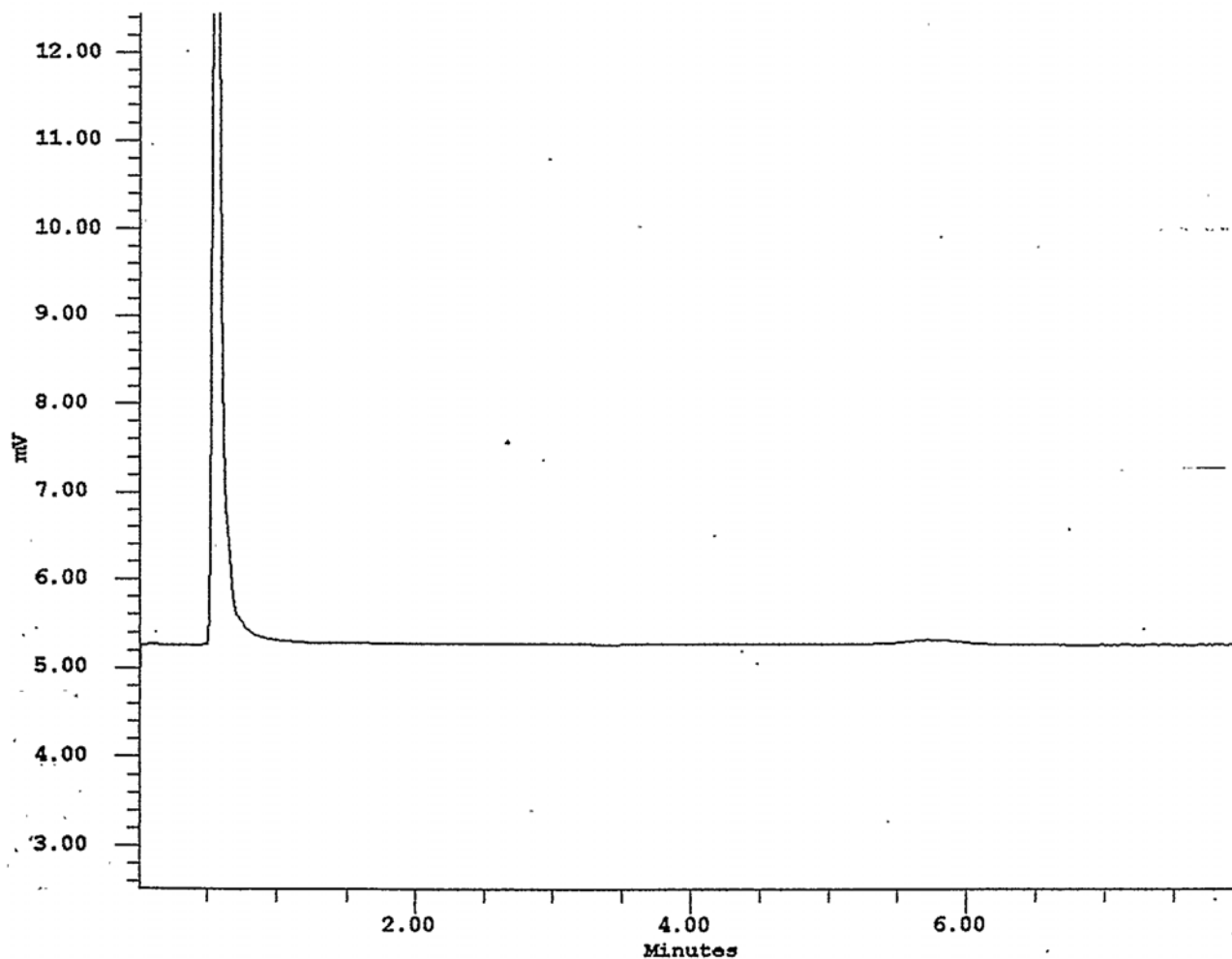
For Sample: 10ppm

Vial: 4 Inj: 1 Chan: SIM Ch2

Date Processed 02/28/95 11:44 AM

Project Name: cations_md
 Sample Name: 10ppm
 Channel: SIM Ch2
 Date Acquired: 02/28/95 11:34 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 10.00
 Run Time: 10.0 min
 Date Processed: 02/28/95 11:44 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

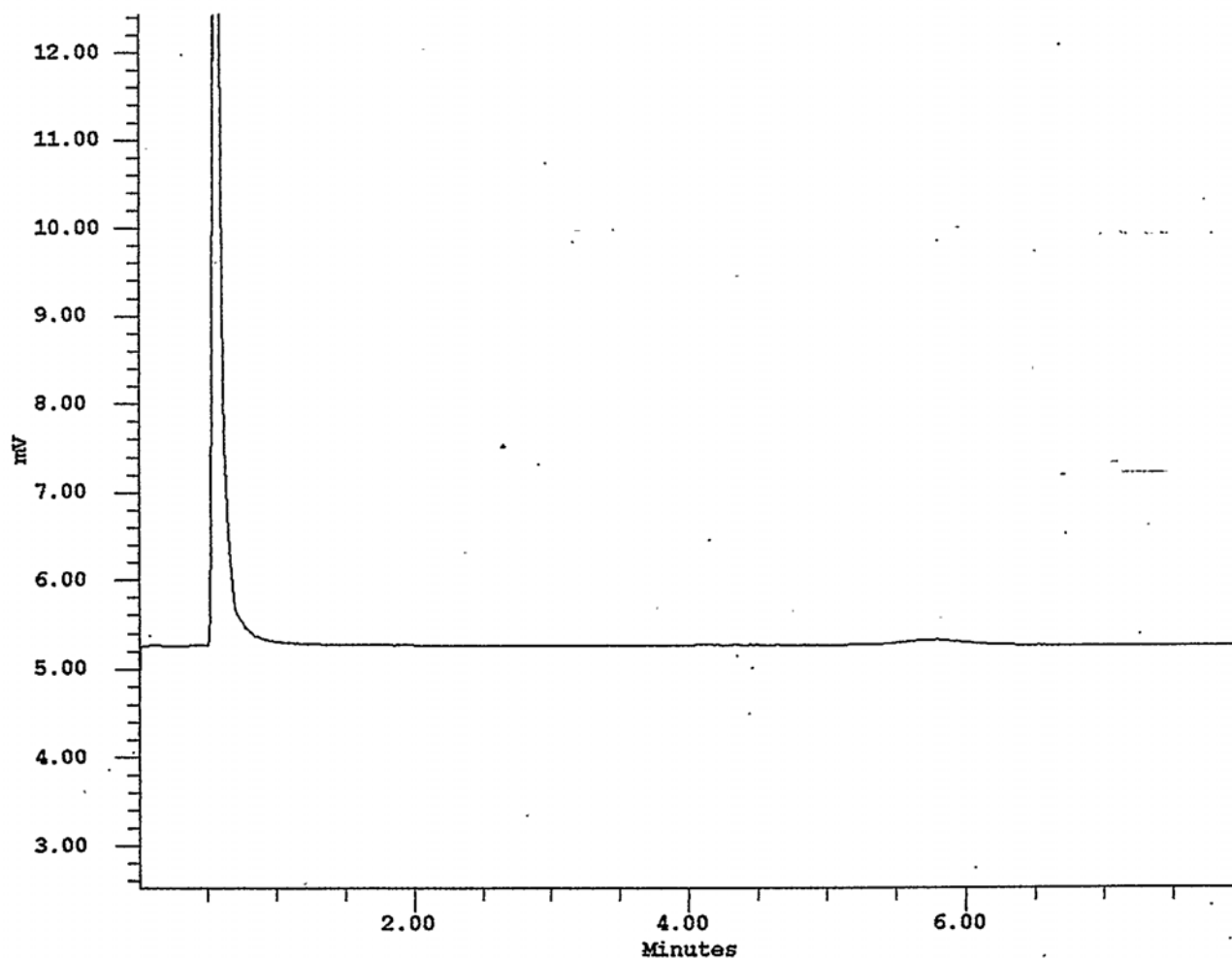
For Sample: 10ppm

Vial: 4 Inj: 2 Chan: SIM Ch2

Date Processed 02/28/95 11:56 AM

Project Name: cations_md
 Sample Name: 10ppm
 Channel: SIM Ch2
 Date Acquired: 02/28/95 11:46 AM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 10.00
 Run Time: 10.0 min
 Date Processed: 02/28/95 11:56 AM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 10ppm

Vial: 4 Inj: 2 Chan: SIM Ch2

Date Processed 02/28/95 02:28 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 10ppm

Volume: 10.00

Channel: SIM Ch2

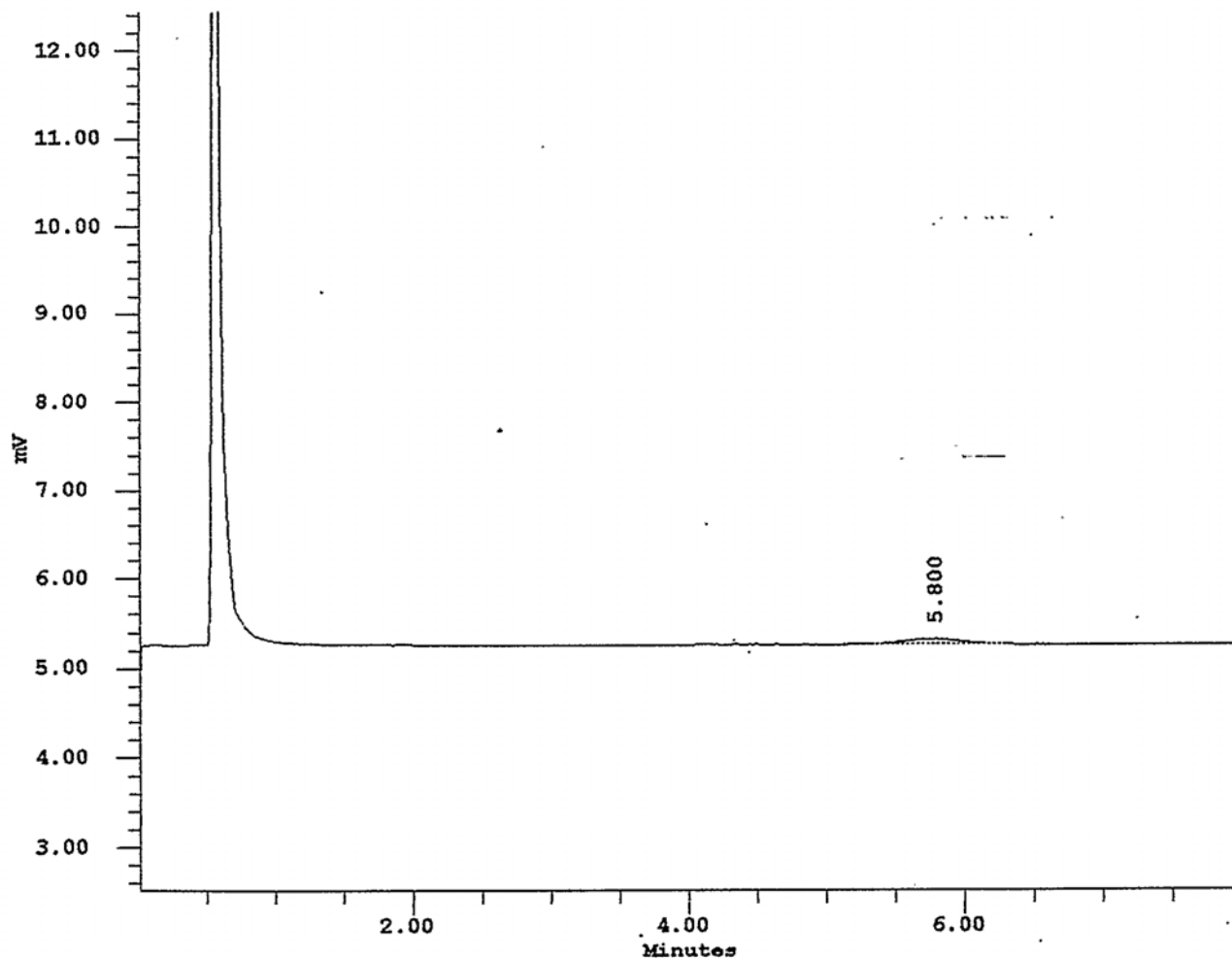
Run Time: 10.0 min

Date Acquired: 02/28/95 11:46 AM

Date Processed: 02/28/95 02:28 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



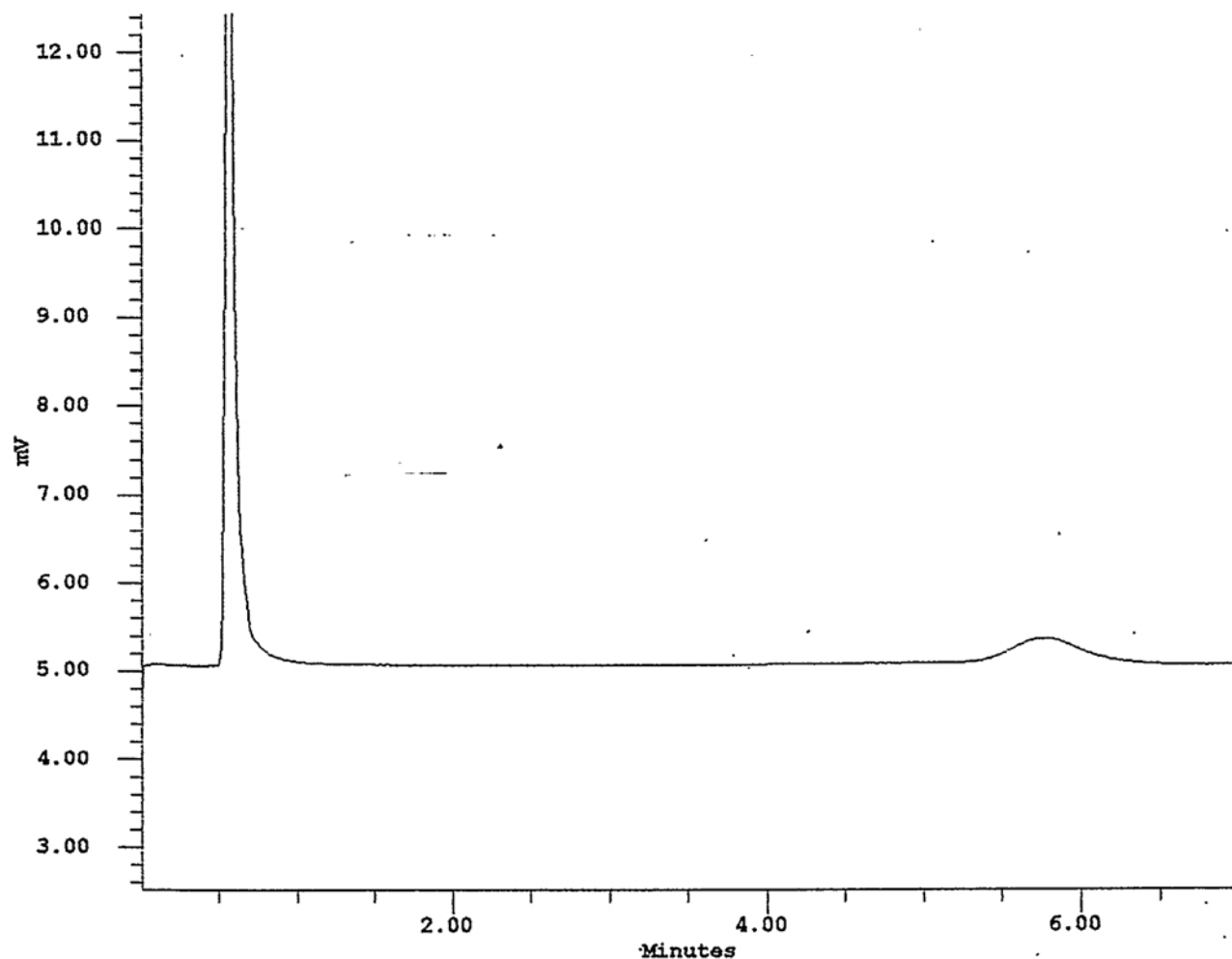
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.800		1616	58	100.00	100.00

For Sample: 50ppm edta Vial: 5 Inj: 1 Chan: SIM Ch2 Date Processed 02/27/95 01:39 PM

Project Name: cations_md
 Sample Name: 50ppm edta
 Channel: SIM Ch2
 Date Acquired: 02/27/95 01:31 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 10.00
 Run Time: 7.0 min
 Date Processed: 02/27/95 01:39 PM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

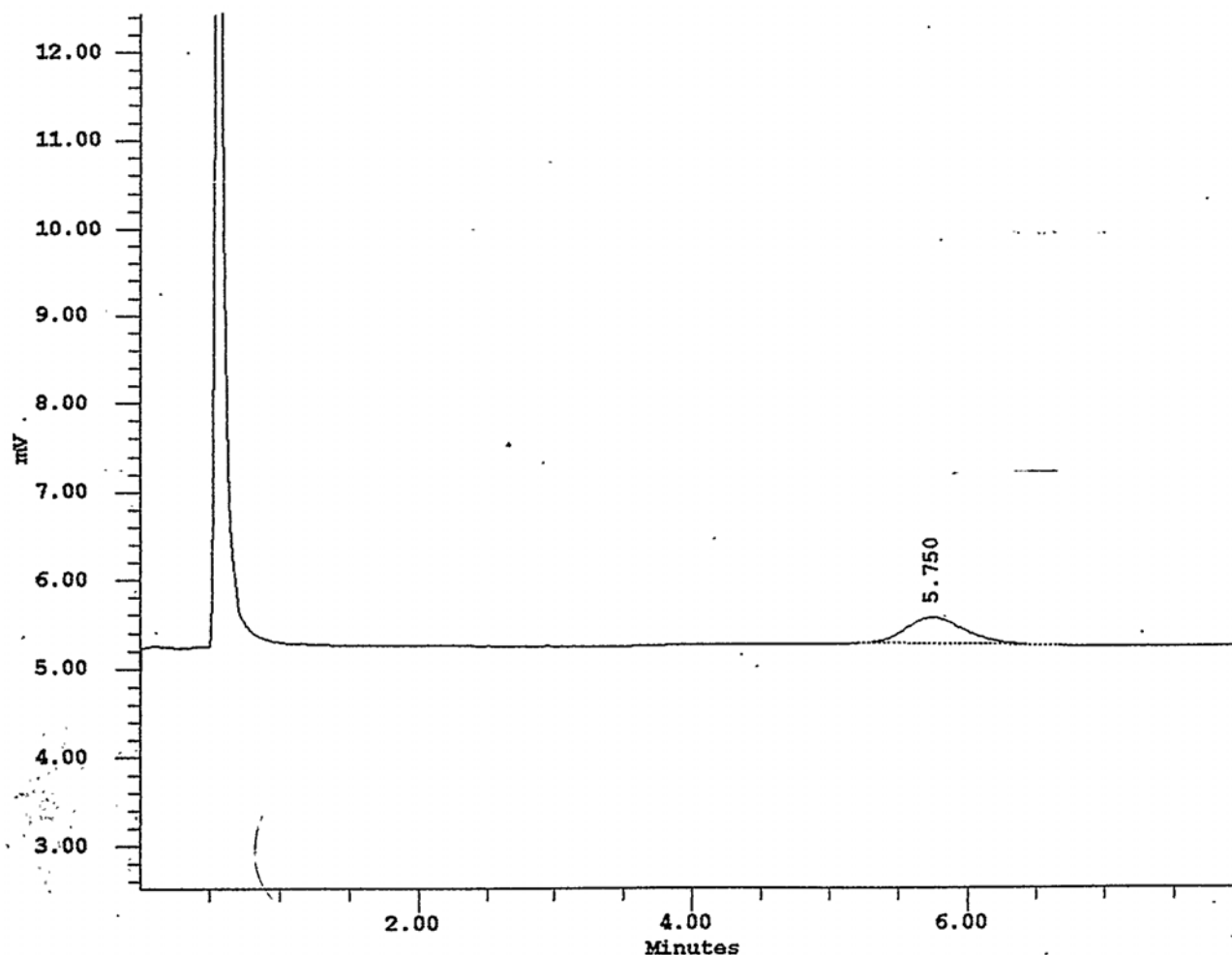
For Sample: 50ppm

Vial: 5 Inj: 2 Chan: SIM Ch2

Date Processed 02/28/95 12:20 PM

Project Name: cations_md
 Sample Name: 50ppm
 Channel: SIM Ch2
 Date Acquired: 02/28/95 12:10 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 10.00
 Run Time: 10.0 min
 Date Processed: 02/28/95 12:20 PM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.750		9011	297	100.00	100.00

For Sample: 50ppm

Vial: 5 Inj: 1 Chan: SIM Ch2

Date Processed 02/28/95 12:08 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 50ppm

Volume: 10.00

Channel: SIM Ch2

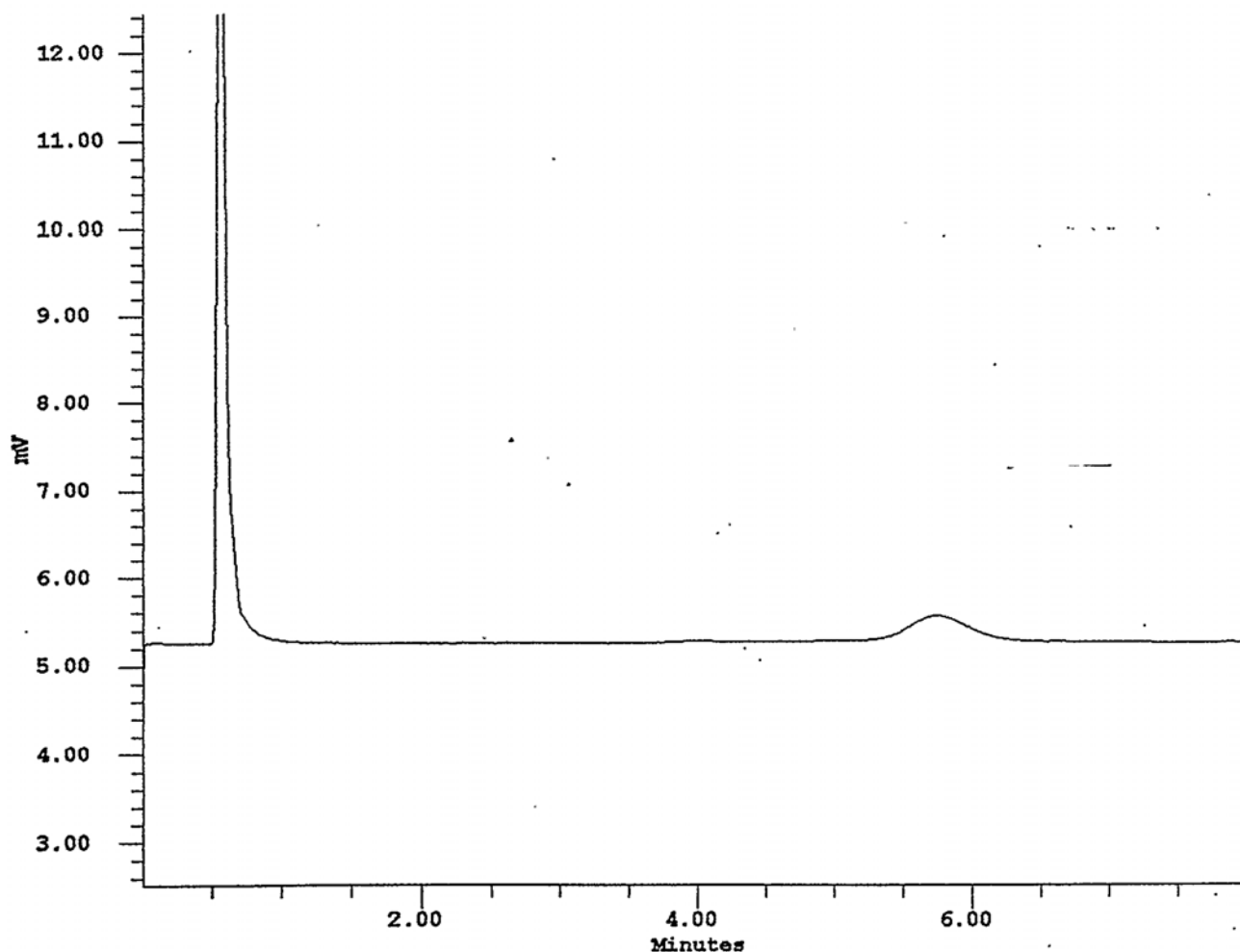
Run Time: 10.0 min

Date Acquired: 02/28/95 11:58 AM

Date Processed: 02/28/95 12:08 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc

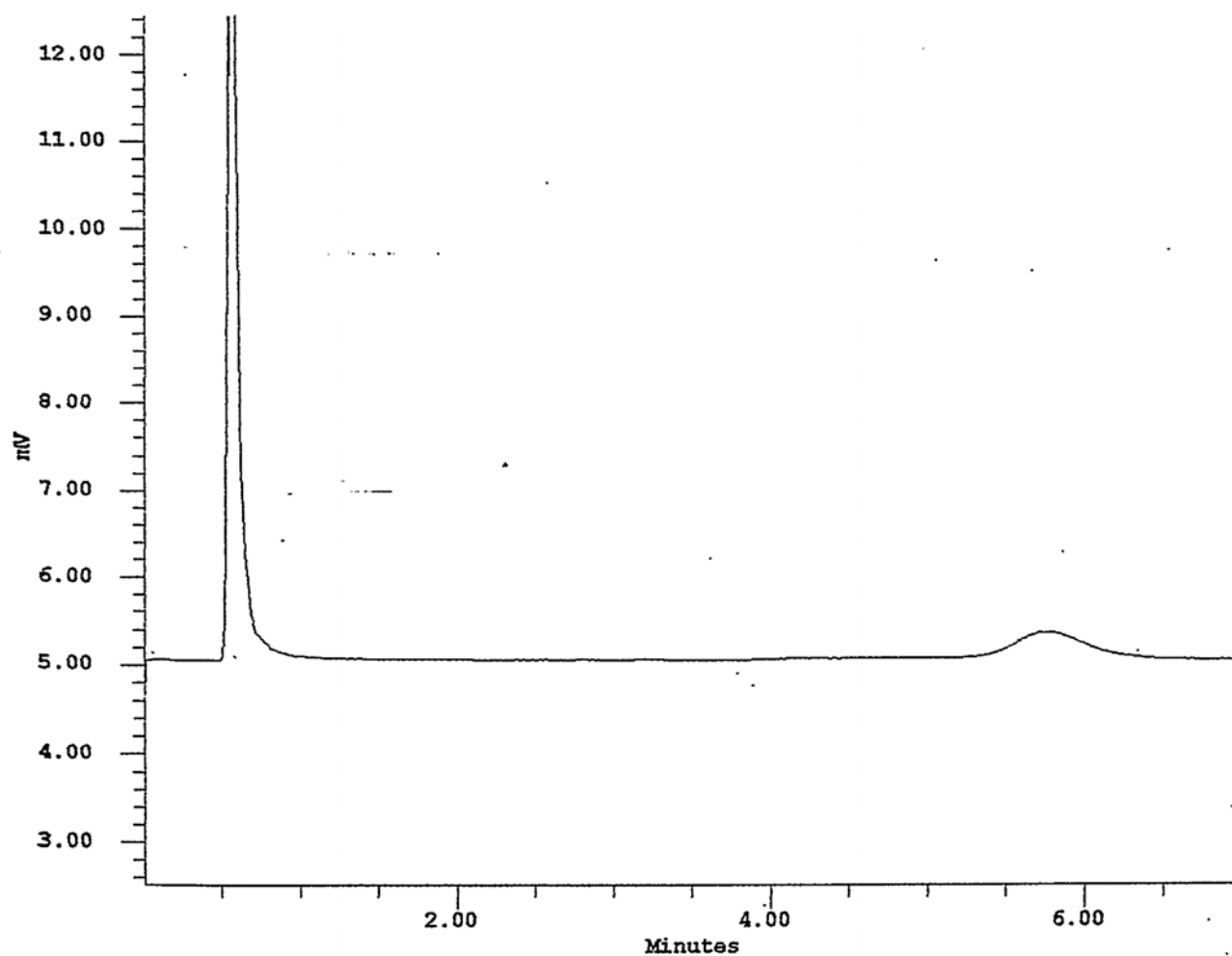


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 50ppm edta Vial: 5 Inj: 2 Chan: SIM Ch2 Date Processed 02/27/95 01:48 PM

Project Name:	cations_md	Sample Type:	Unknown
Sample Name:	50ppm edta	Volume:	10.00
Channel:	SIM Ch2	Run Time:	7.0 min
Date Acquired:	02/27/95 01:40 PM	Date Processed:	02/27/95 01:48 PM
Acq Meth Set:	EDTA_METH_SET		
Processing Method:	EDTA_proc		

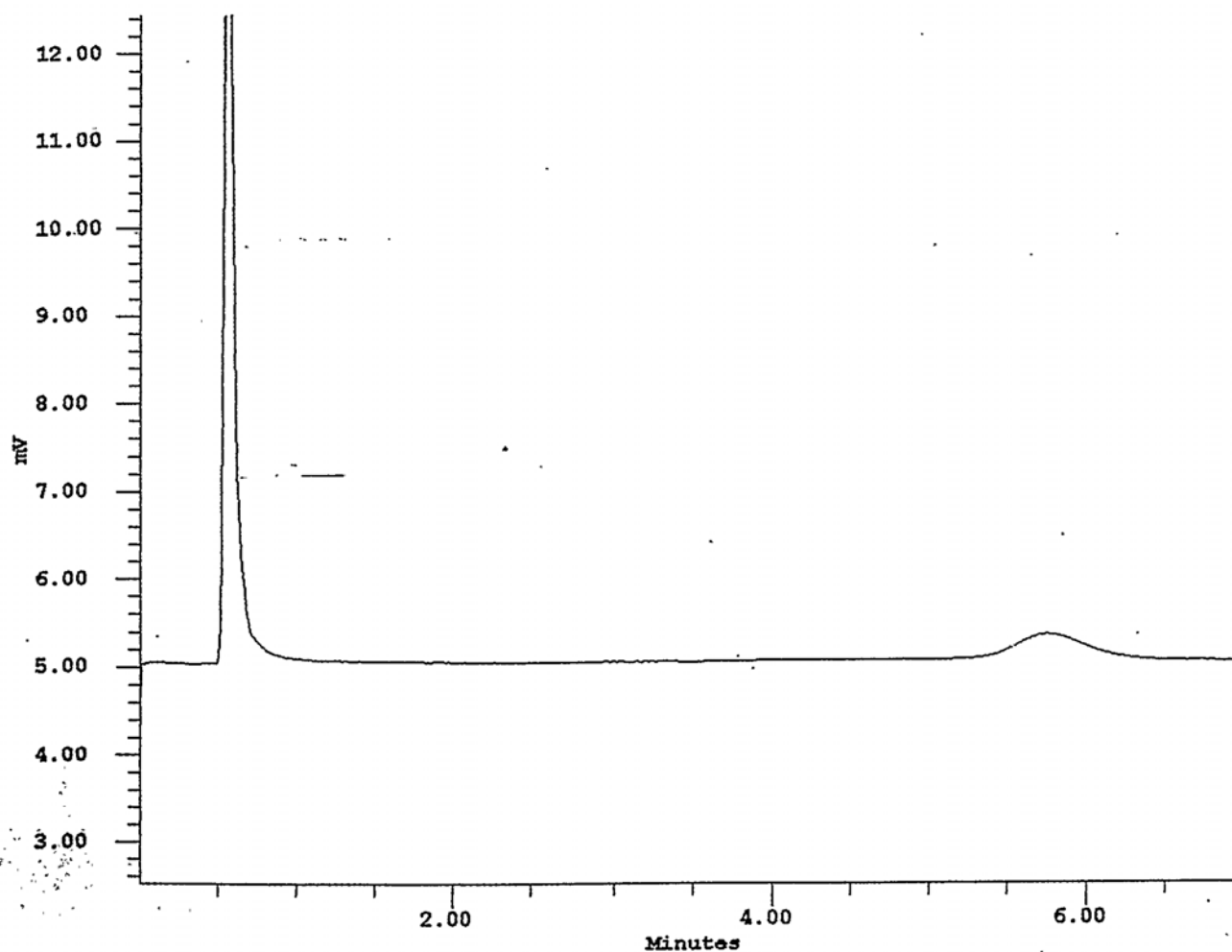


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 50ppm edta Vial: 5 Inj: 3 Chan: SIM Ch2 Date Processed 02/27/95 01:57 PM

Project Name: cations_md Sample Type: Unknown
 Sample Name: 50ppm edta Volume: 10.00
 Channel: SIM Ch2
 Date Acquired: 02/27/95 01:49 PM Run Time: 7.0 min
 Date Processed: 02/27/95 01:57 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					

For Sample: 50ppm

Vial: 5 Inj: 1 Chan: SIM Ch2

Date Processed 02/28/95 02:28 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 50ppm

Volume: 10.00

Channel: SIM Ch2

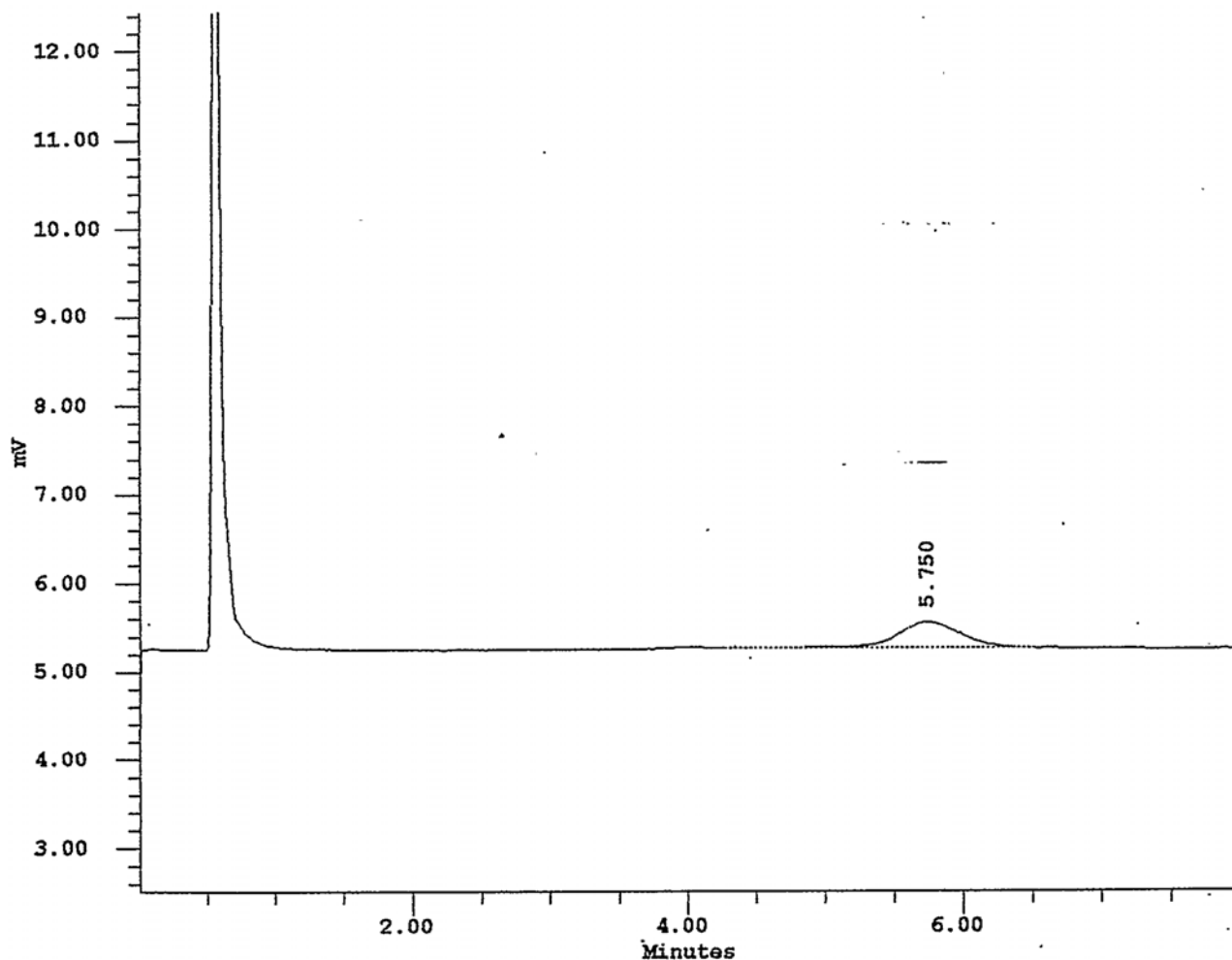
Run Time: 10.0 min

Date Acquired: 02/28/95 11:58 AM

Date Processed: 02/28/95 02:28 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.750		9806	298	100.00	100.00

For Sample: 100ppm

Vial: 6 Inj: 1 Chan: SIM Ch2

Date Processed 02/28/95 12:35 PM

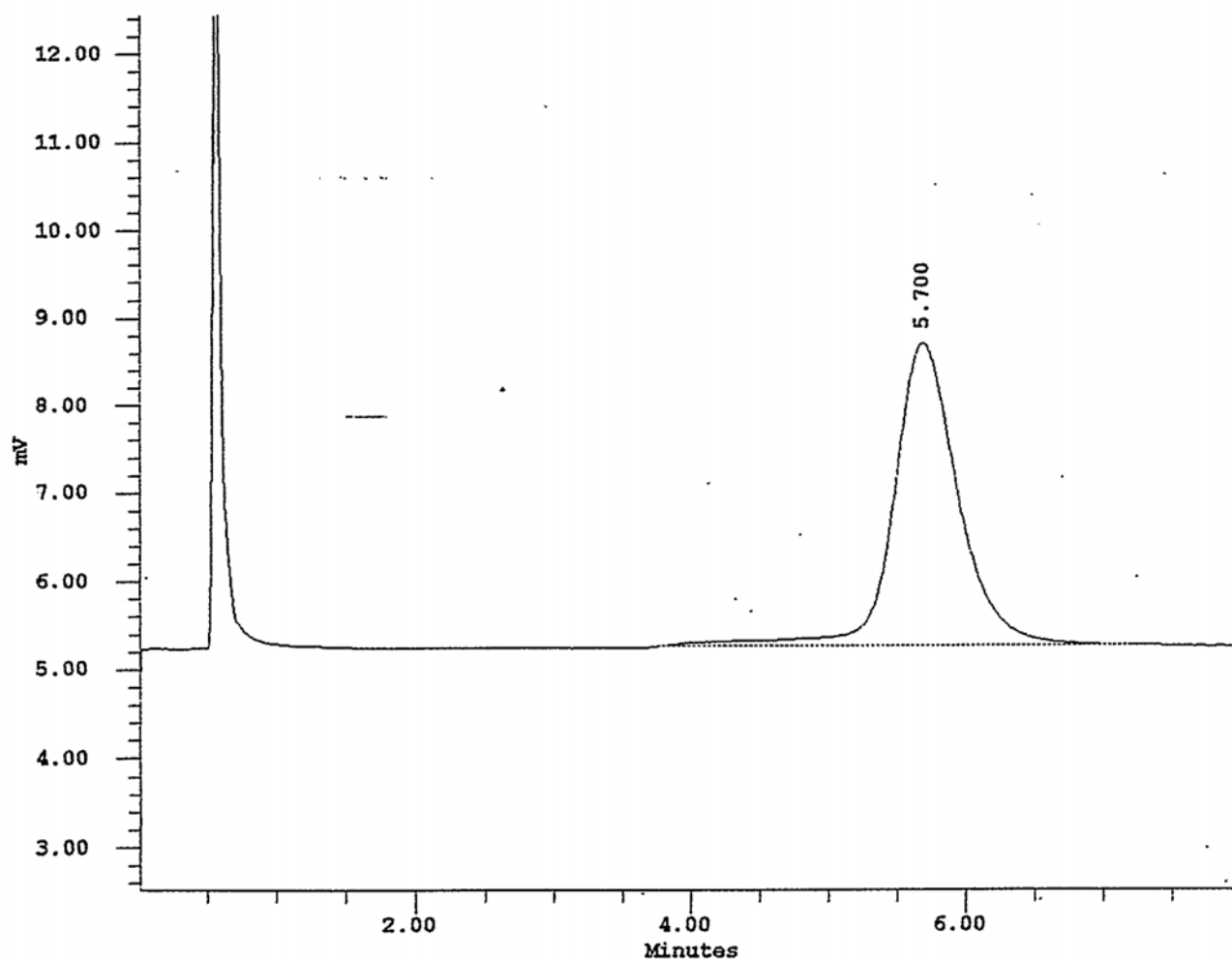
Project Name: cations_md
 Sample Name: 100ppm 500 ppm
 Channel: SIM Ch2
 Date Acquired: 02/28/95 12:24 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown

Volume: 8.00

Run Time: 10.0 min

Date Processed: 02/28/95 12:35 PM



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		4.233		1032	53	0.91	1.48
2		4.558		1278	69	1.13	1.93
3	CuEDTA	5.700		111186	3450	97.96	96.58

For Sample: 100ppm

Vial: 6 Inj: 2 Chan: SIM Ch2

Date Processed 02/28/95 12:46 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 100ppm 500ppm

Volume: 8.00

Channel: SIM Ch2

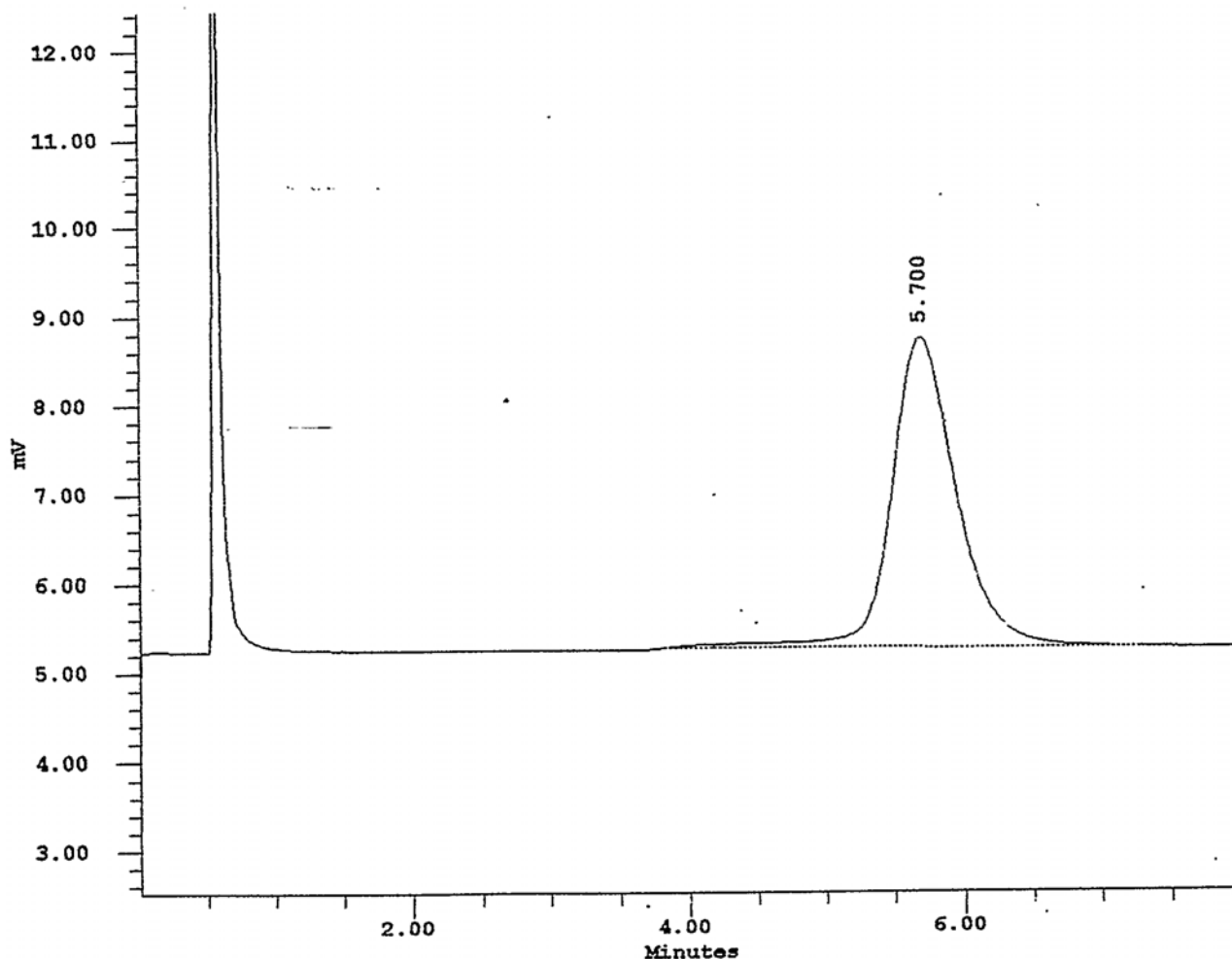
Run Time: 10.0 min

Date Acquired: 02/28/95 12:36 PM

Date Processed: 02/28/95 12:46 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		4.167		555	39	0.49	1.11
2	CuEDTA	5.700		112363	3470	99.51	98.89

For Sample: 250ppm

Vial: 7 Inj: 1 Chan: SIM Ch2

Date Processed 02/28/95 12:58 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 250ppm

Volume: 8.00

Channel: SIM Ch2

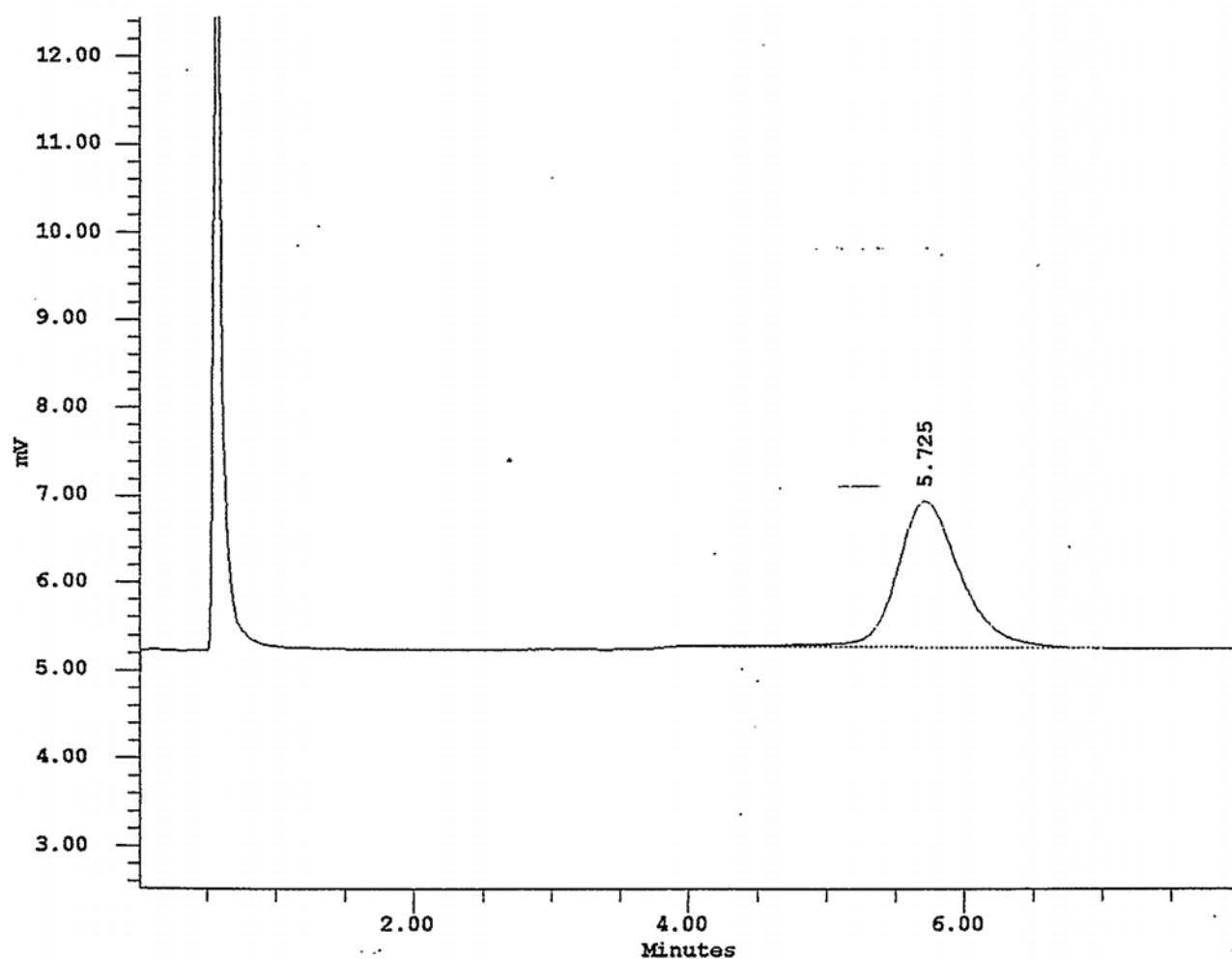
Date Acquired: 02/28/95 12:48 PM

Run Time: 10.0 min

Date Processed: 02/28/95 12:58 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.725		54112	1677	100.00	100.00

For Sample: 250ppm

Vial: 7 Inj: 2 Chan: SIM Ch2

Date Processed 02/28/95 01:10 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 250ppm

Volume: 8.00

Channel: SIM Ch2

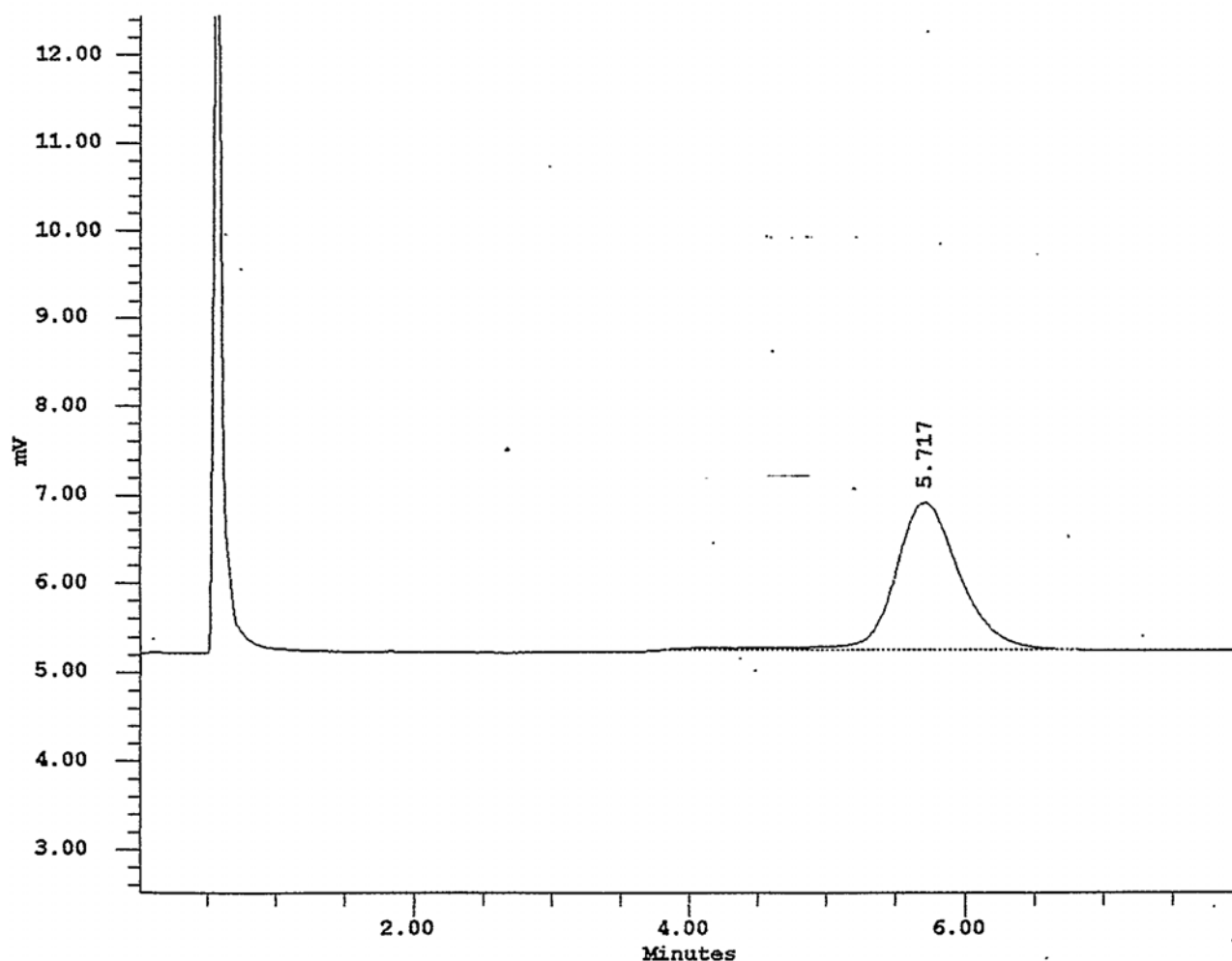
Date Acquired: 02/28/95 01:00 PM

Run Time: 10.0 min

Date Processed: 02/28/95 01:10 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		4.125		671	26	1.23	1.53
2	CuEDTA	5.717		53876	1676	98.77	98.47

For Sample: 500ppm

Vial: 8 Inj: 1 Chan: SIM Ch2

Date Processed 02/28/95 01:22 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 500ppm

Volume: 8.00

Channel: SIM Ch2

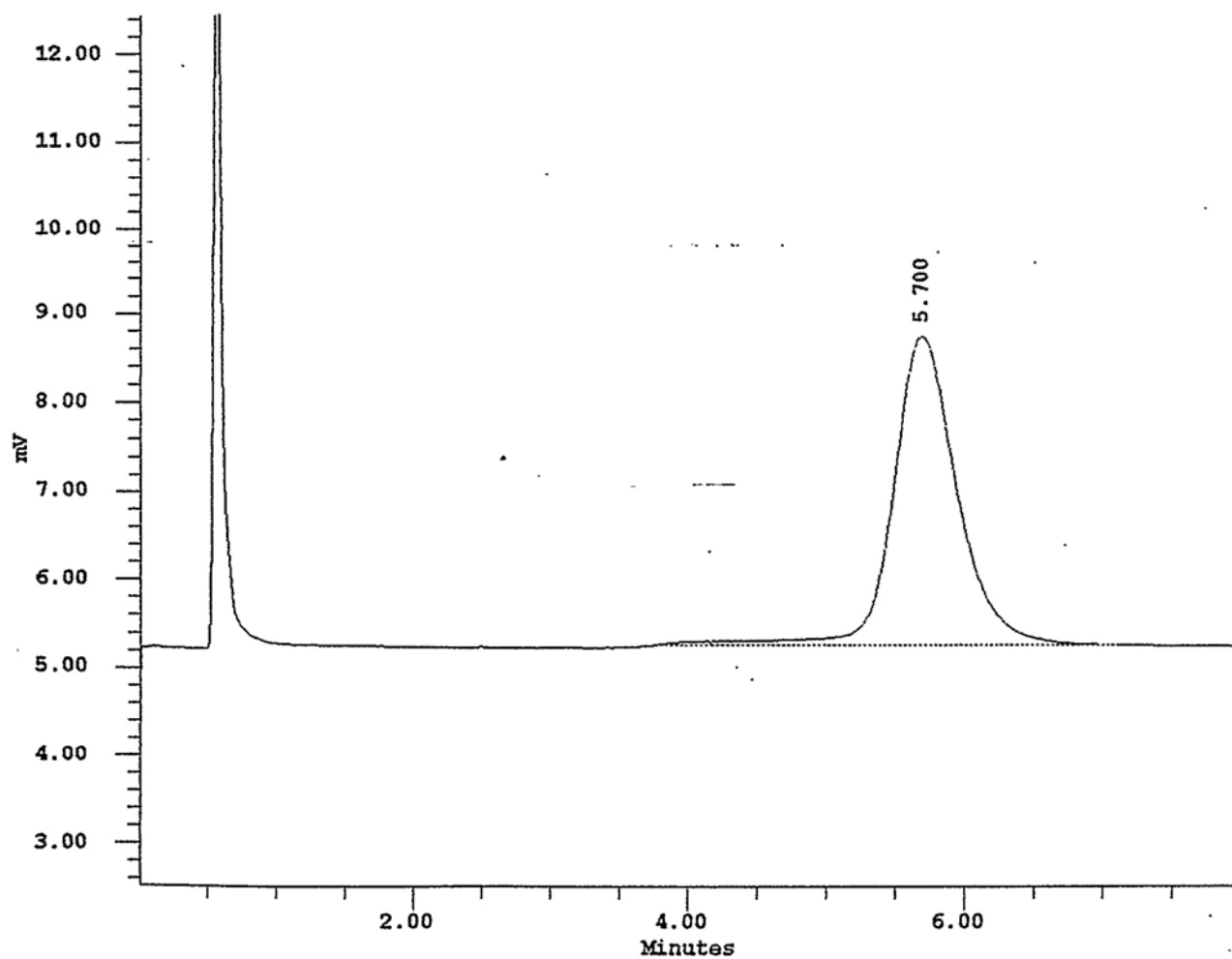
Run Time: 10.0 min

Date Acquired: 02/28/95 01:12 PM

Date Processed: 02/28/95 01:22 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		4.142		734	43	0.65	1.22
2	CuEDTA	5.700		111501	3472	99.35	98.78

For Sample: 500ppm

Vial: 8 Inj: 2 Chan: SIM Ch2

Date Processed 02/28/95 01:34 PM

Project Name: cations_md

Sample Type: Unknown

Sample Name: 500ppm

Volume: 8.00

Channel: SIM Ch2

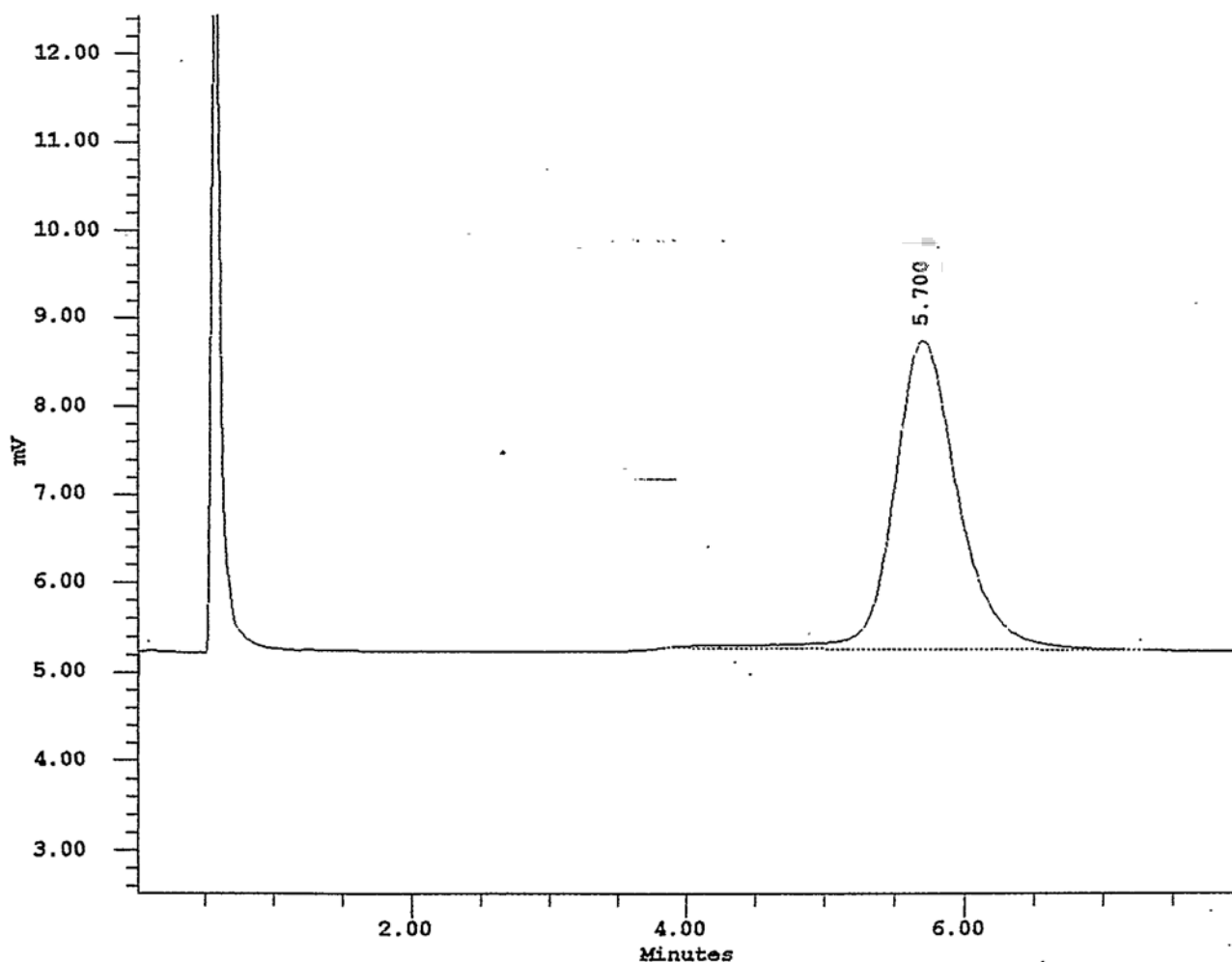
Date Acquired: 02/28/95 01:24 PM

Run Time: 10.0 min

Date Processed: 02/28/95 01:34 PM

Acq Meth Set: EDTA_METH_SET

Processing Method: EDTA_proc



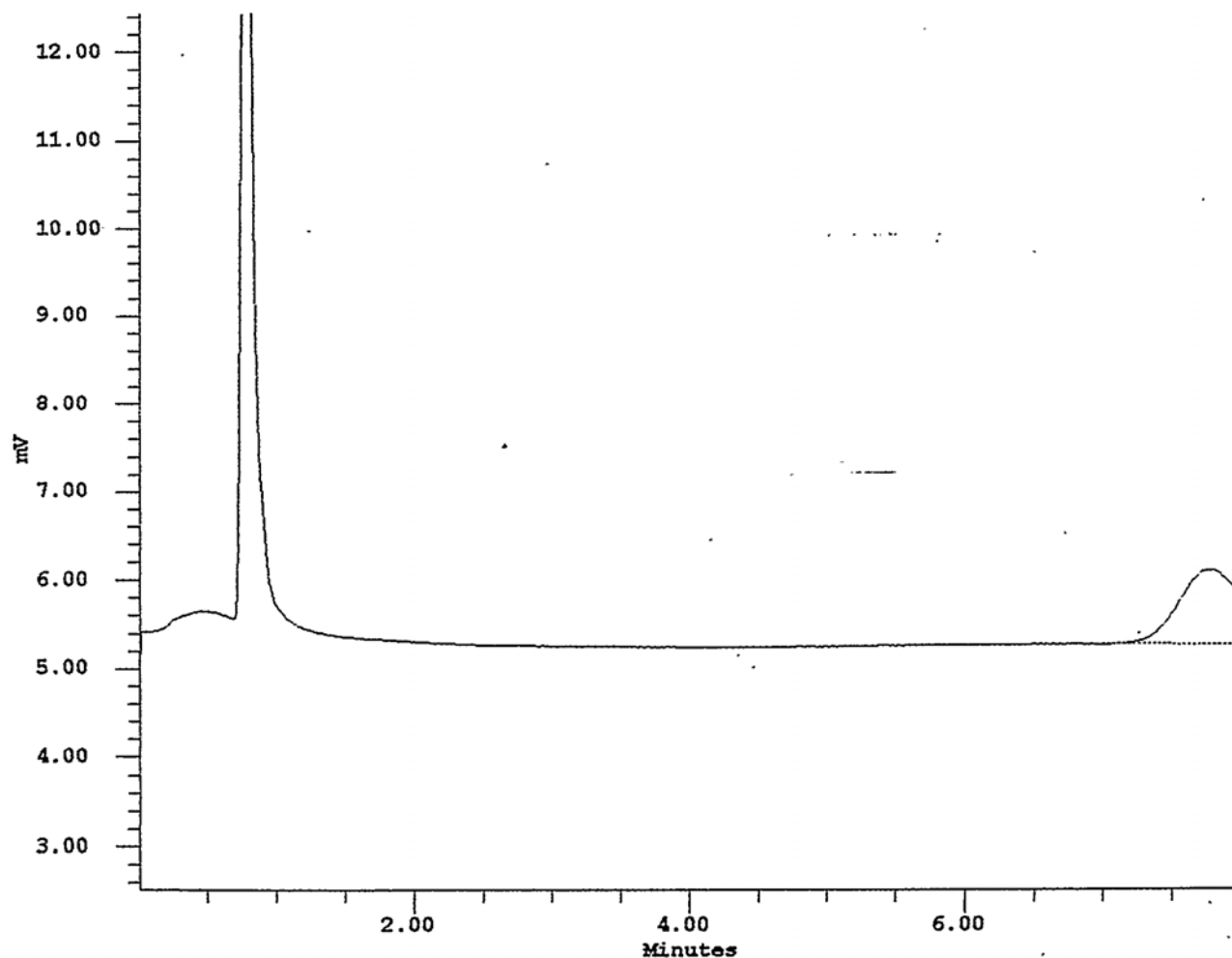
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1		4.192		585	33	0.52	0.94
2	CuEDTA	5.700		110969	3476	99.48	99.06

For Sample: 100ppmedta Vial: 9 Inj: 2 Chan: SIM Ch2 Date Processed 02/28/95 03:25 PM

Project Name: cations_md
 Sample Name: 100ppmedta
 Channel: SIM Ch2
 Date Acquired: 02/28/95 03:15 PM
 Acq Meth Set: EDTA_METH_SET
 Processing Method: EDTA_proc

Sample Type: Unknown
 Volume: 10.00
 Run Time: 10.0 min
 Date Processed: 02/28/95 03:25 PM



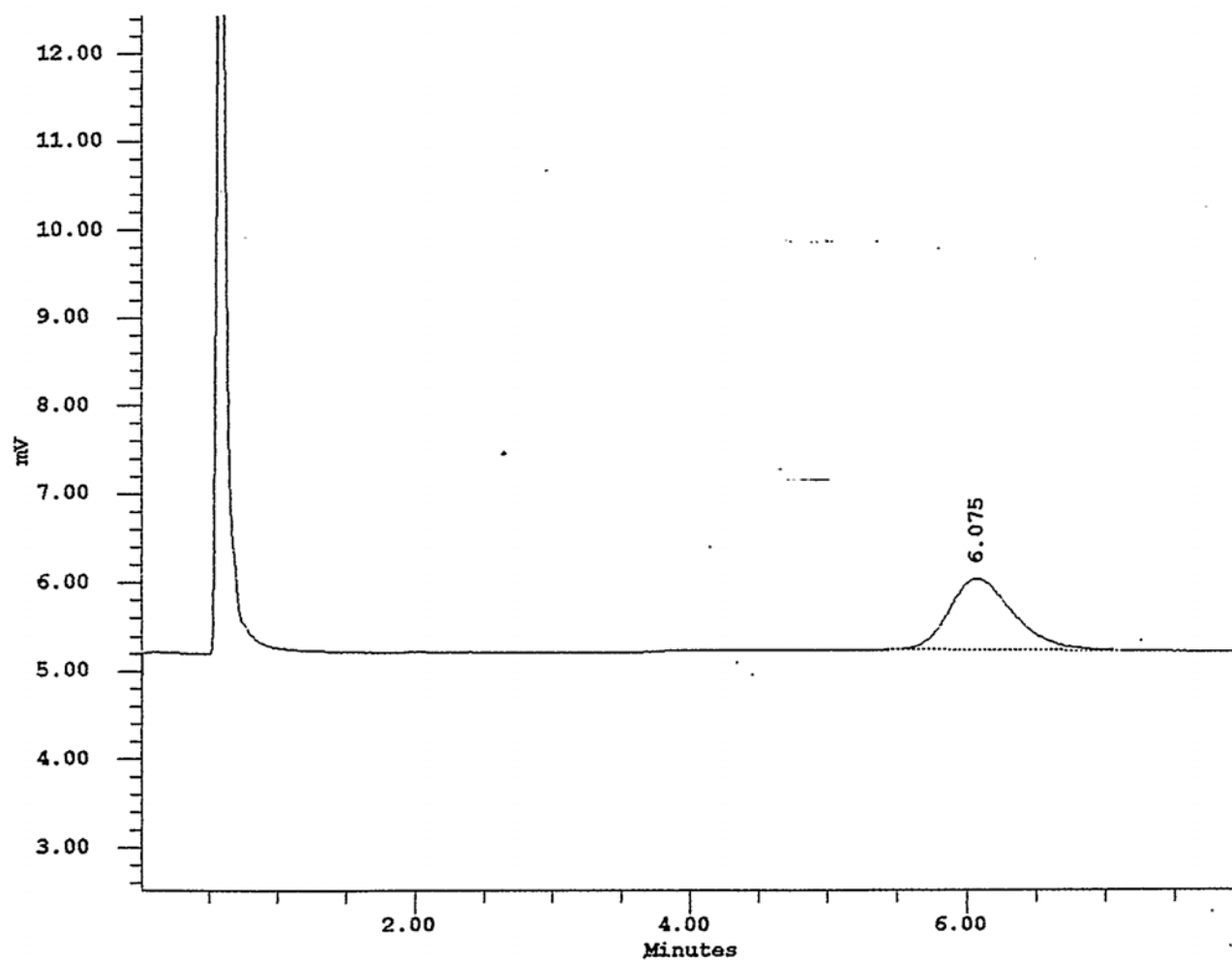
Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.761					
2		7.775		32098	842	100.00	100.00

For Sample: 100ppmedta Vial: 9 Inj: 3 Chan: SIM Ch2 Date Processed 02/28/95 04:15 PM

Project Name: cations_md
Sample Name: 100ppmedta
Channel: SIM Ch2
Date Acquired: 02/28/95 04:05 PM
Acq Meth Set: EDTA_METH_SET
Processing Method: EDTA_proc

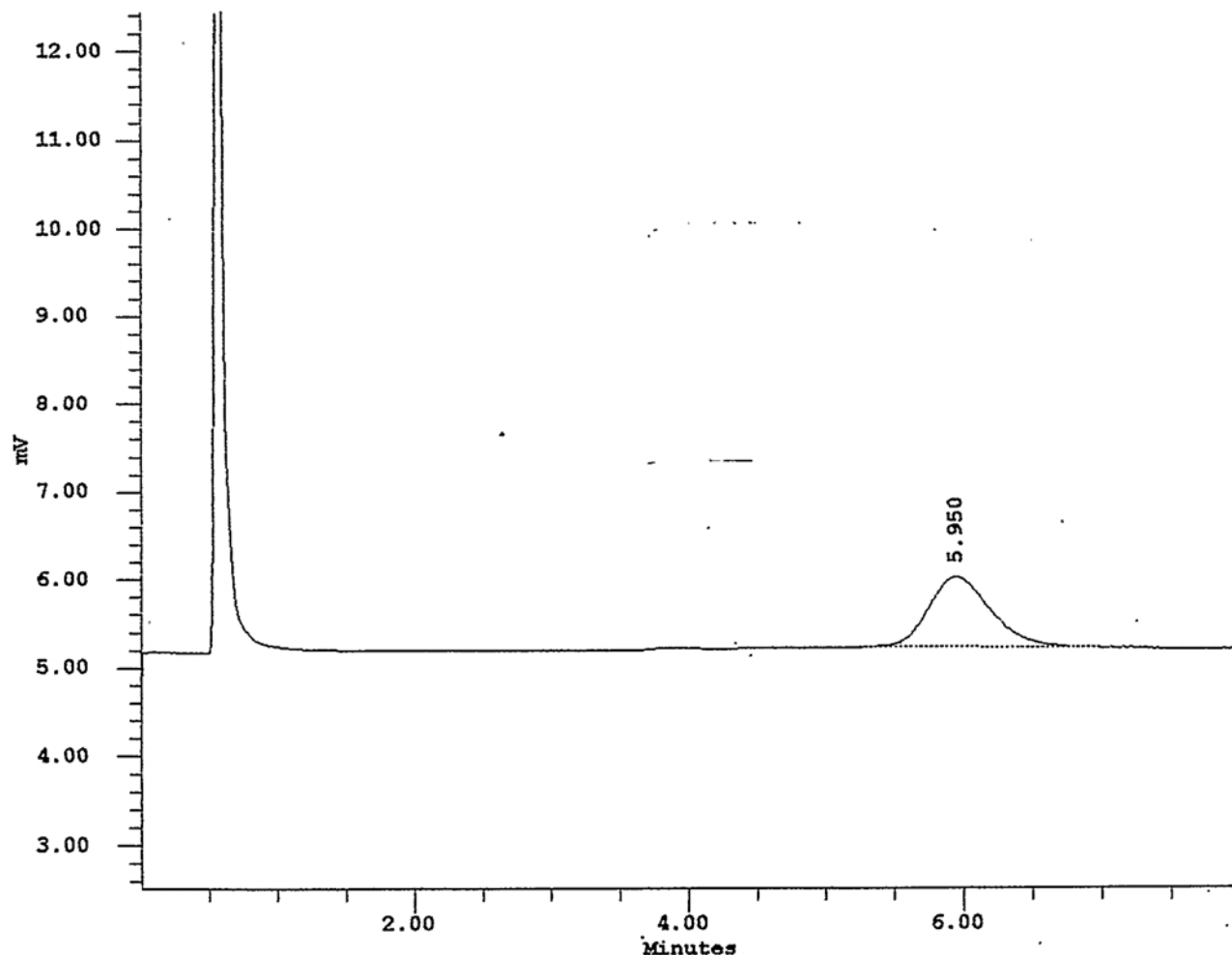
Sample Type: Unknown
Volume: 10.00
Run Time: 10.0 min
Date Processed: 02/28/95 04:15 PM

*Peak Results*

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	6.075		25840	802	100.00	100.00

For Sample: 100ppmedta Vial: 9 Inj: 4 Chan: SIM Ch2 Date Processed 02/28/95 05:02 PM

Project Name:	cations_md	Sample Type:	Unknown
Sample Name:	100ppmedta	Volume:	10.00
Channel:	SIM Ch2		
Date Acquired:	02/28/95 04:52 PM	Run Time:	10.0 min
Acq Meth Set:	EDTA_METH_SET	Date Processed:	02/28/95 05:02 PM
Processing Method:	EDTA_proc		

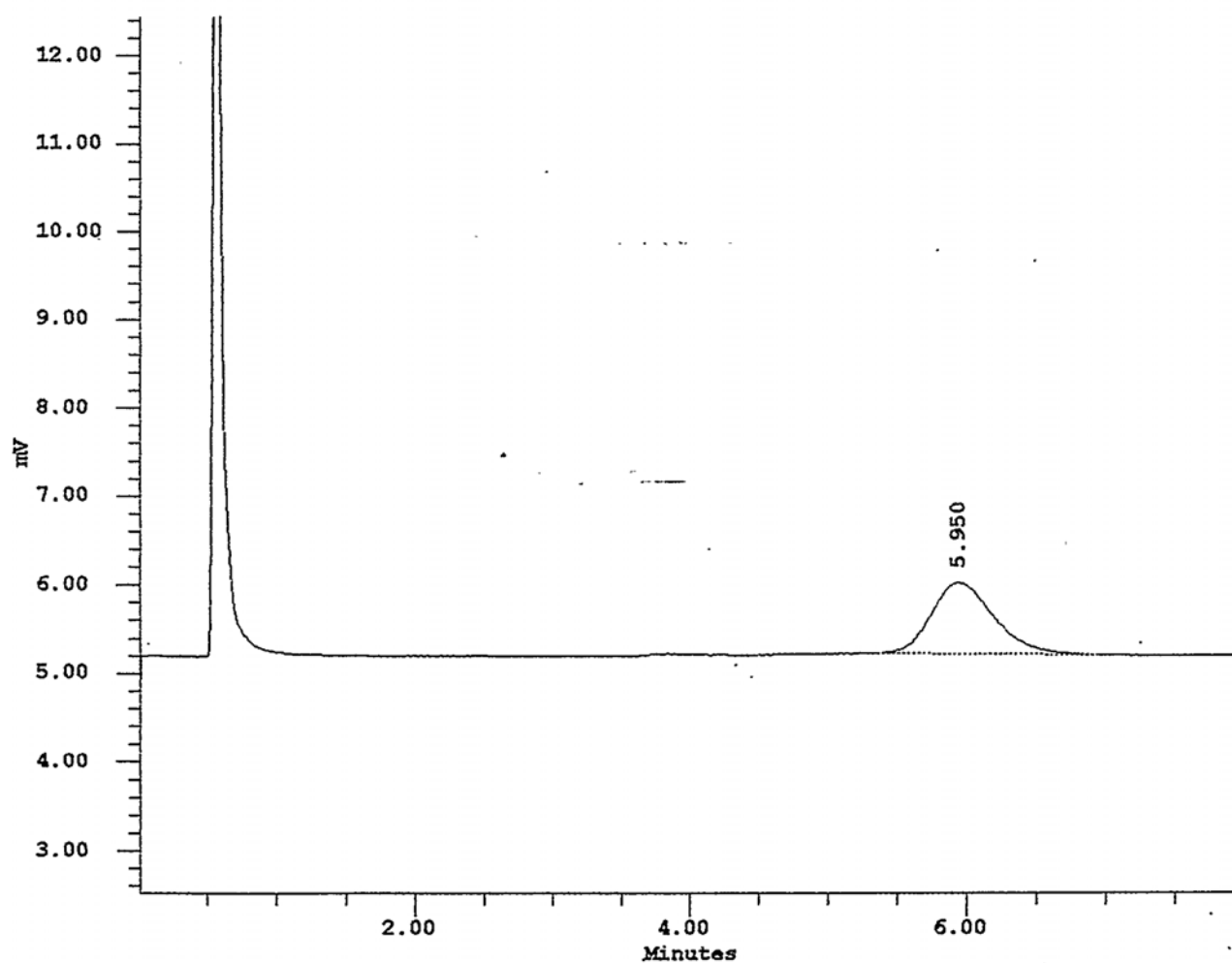


Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.950		25085	796	100.00	100.00

For Sample: 100ppmedta Vial: 9 Inj: 5 Chan: SIM Ch2 Date Processed 02/28/95 05:17 PM

Project Name:	cations_md	Sample Type:	Unknown
Sample Name:	100ppmedta	Volume:	10.00
Channel:	SIM Ch2	Run Time:	10.0 min
Date Acquired:	02/28/95 05:06 PM	Date Processed:	02/28/95 05:17 PM
Acq Meth Set:	EDTA_METH_SET		
Processing Method:	EDTA_proc		



Peak Results

#	Name	Ret Time (min)	RT Ratio	Area (uV*sec)	Height (uV)	% Area	% Ht
1	CuEDTA	5.950		24963	803	100.00	100.00

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Page 267 ~ b6 - -1,2; b7C - -1,2; b7D - -4,8; b7E - -13;
Page 269 ~ b6 - -1,2; b7C - -1,2; b7D - -4,8; b7E - -13;
Page 271 ~ b6 - -1,2; b7C - -1,2; b7D - -4,8; b7E - -13;
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Page 274 ~ b6 - -1,2; b7C - -1,2; b7D - -4,8;
Page 276 ~ b6 - -1,2; b7C - -1,2; b7D - -4,8; b7E - -13;
Page 278 ~ b6 - -1,2; b7C - -1,2; b7D - -4,8; b7E - -13;
Page 280 ~ b6 - -1,2; b7C - -1,2; b7D - -4,8; b7E - -13;
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Page 282 ~ b6 - -2; b7C - -2; b7D - -4,8; b7E - -13;

Page 283 ~ b6 - -1,10; b7C - -1,10; b7D - -8; b7E - -13;
Page 284 ~ b6 - -1,2; b7C - -1,2; b7D - -4,8; b7E - -13;
Page 285 ~ b6 - -2; b7C - -2; b7D - -4,8; b7E - -13;
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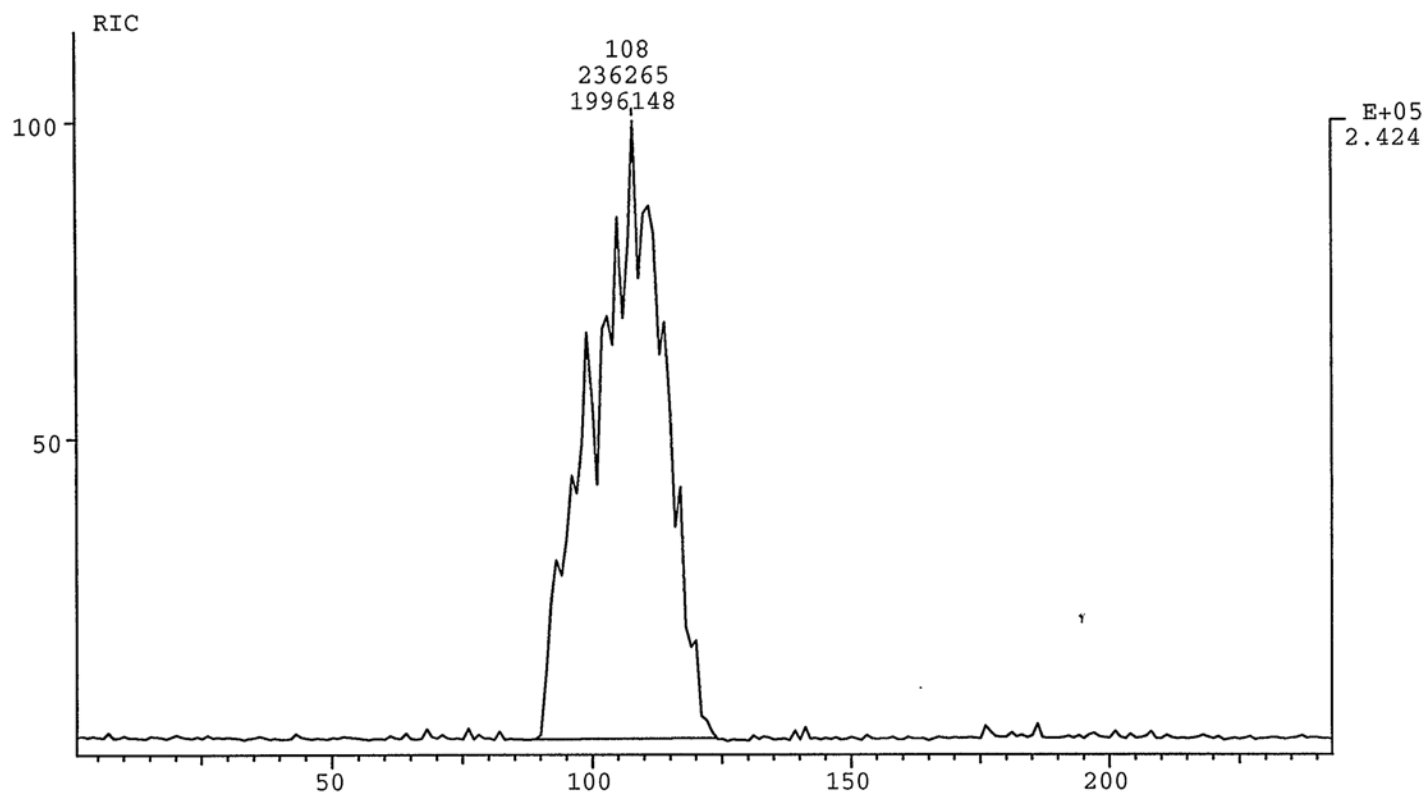
CHRO: stain25
Samp: BLOOD STAIN 25 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 243
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95

Elapse: 00:01:28.6 162
Start : 10:41:56 243

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3267

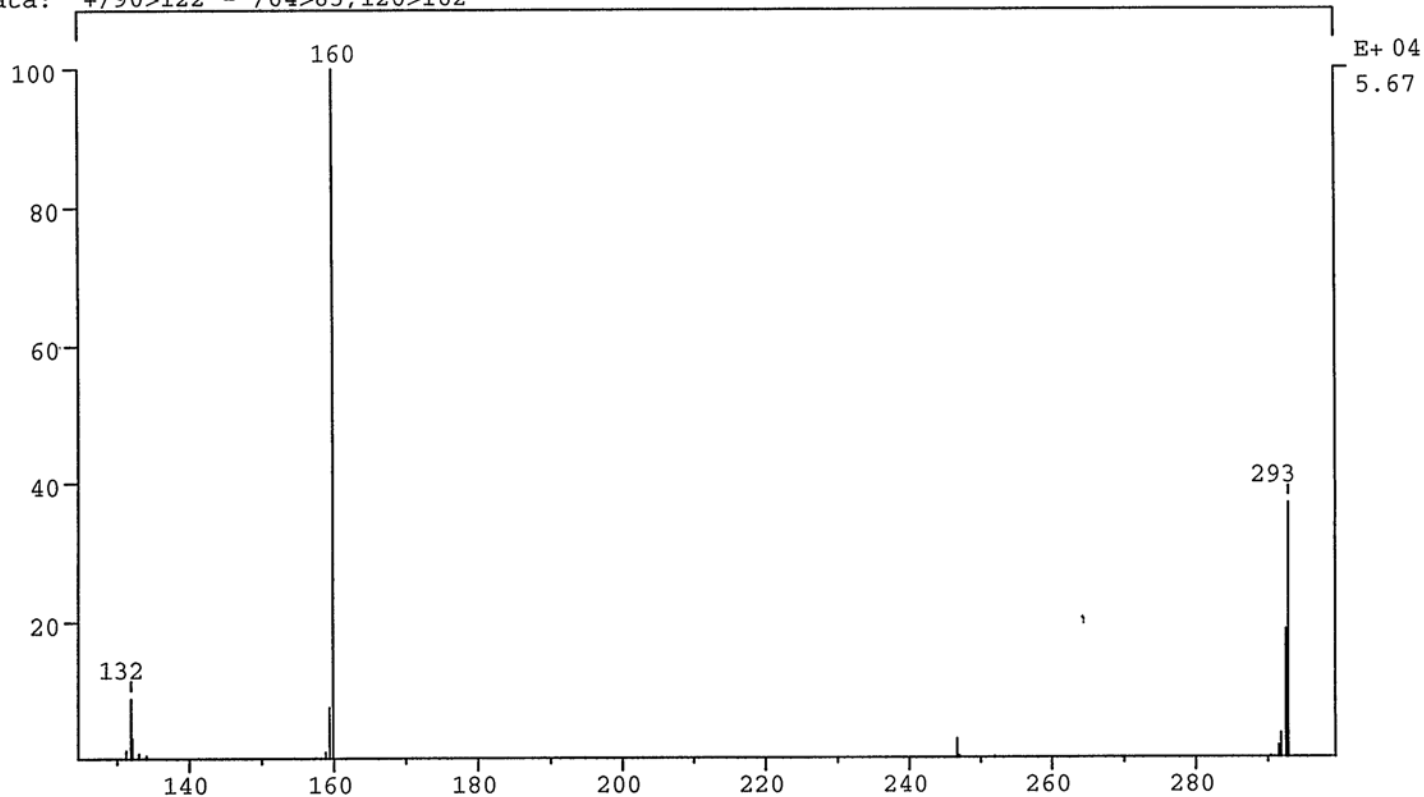
SPEC: stain25
Samp: BLOOD STAIN 25 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.9 Inten : 56688
Norm: 159.9 RIC : 114107
Peak: 1000.00 mmu
Data: +/90>122 - /64>85,126>162

09-FEB-95

DERIVED SPECTRUM 9
Start : 10:41:56 243

Inlet :
Masses: 128 > 296
#peaks: 149

b6 -1
b7C -1



FBI(24-cv-1564)-3268

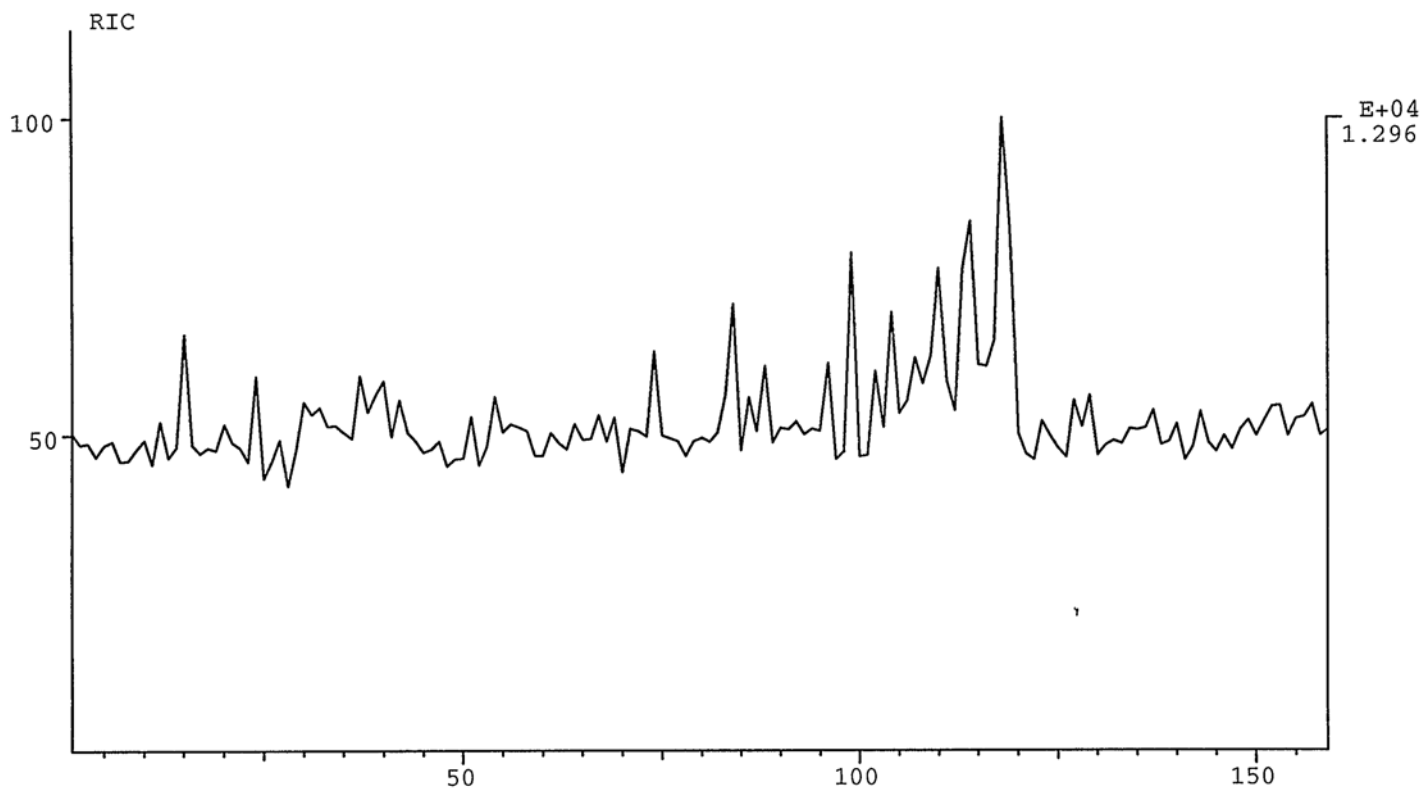
CHRO: stain26
Samp: BLOOD STAIN 26 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 159
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95

Elapse: 00:01:29.1 162
Start : 10:50:18 159

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3269

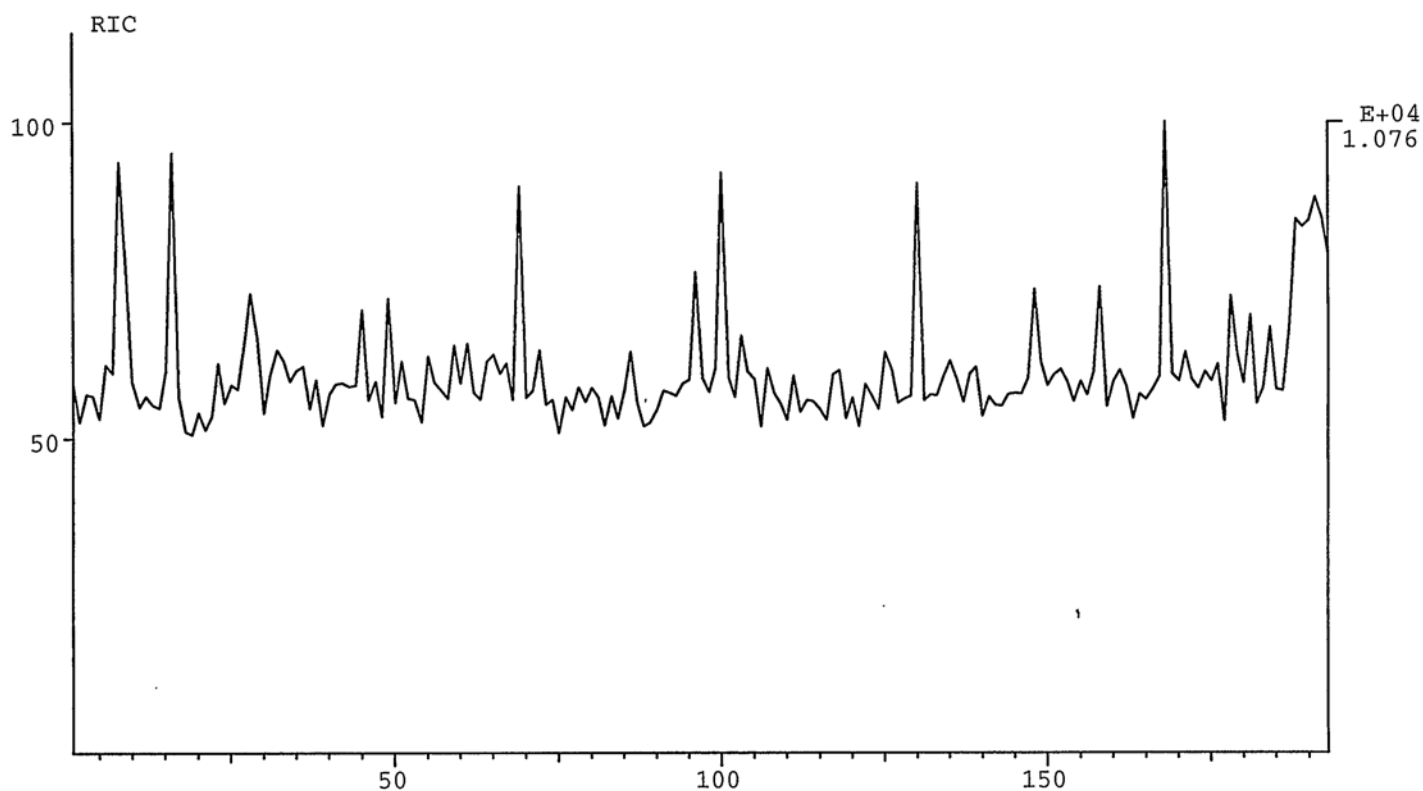
CHRO: stain27
Samp: BLOOD STAIN 27 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 193
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95

Elapse: 00:01:28.8 162
Start : 10:57:35 193

Inlet :
Masses: 128 > 296
Label : 15, 40.00

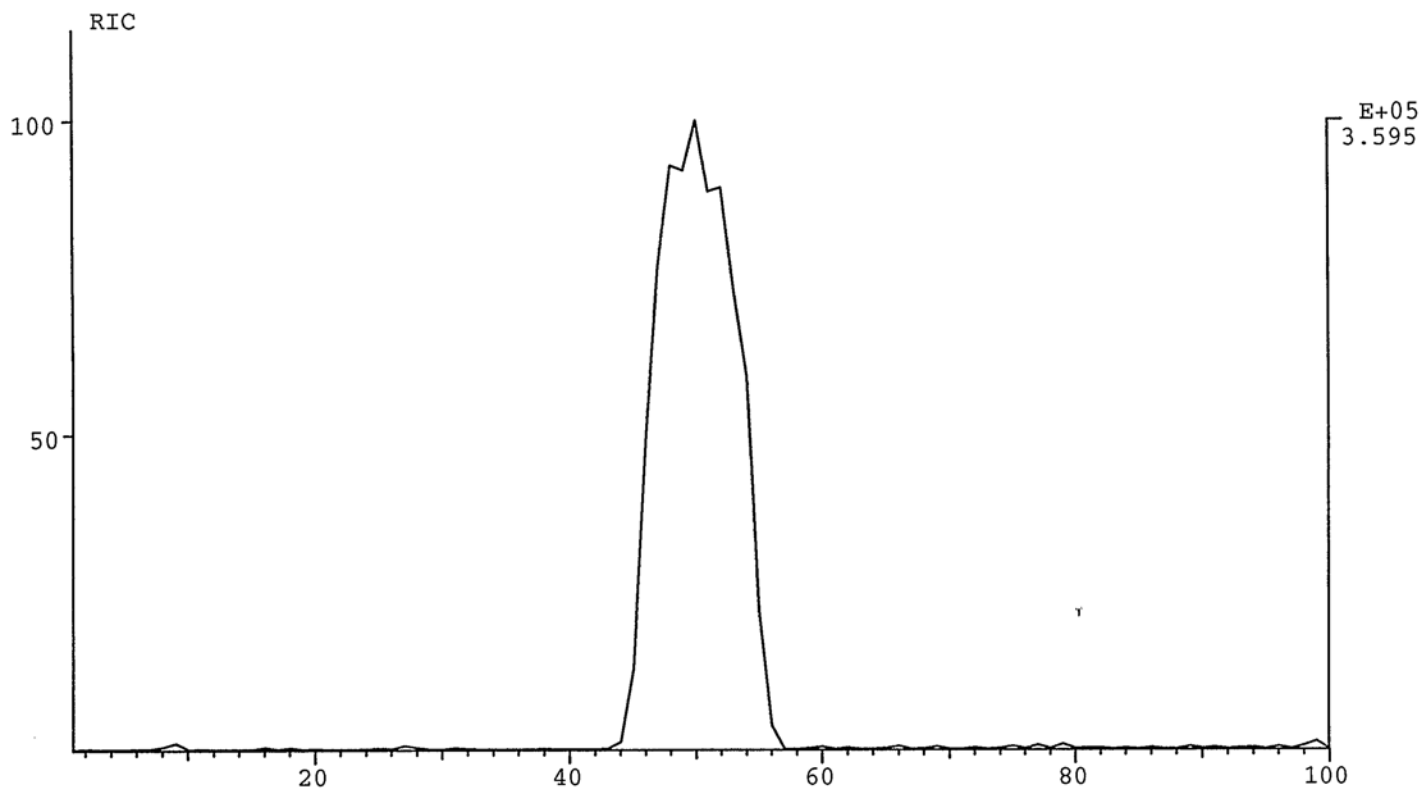
b6 -1
b7c -1



FBI(24-cv-1564)-3270

CHRO: stain28 10-FEB-95 Elapse: 00:01:17.2 72
Samp: BLOOD STAIN 28,1HR H2O EXT.MC-FILTER Start : 14:07:22 100
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 100 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7C -1

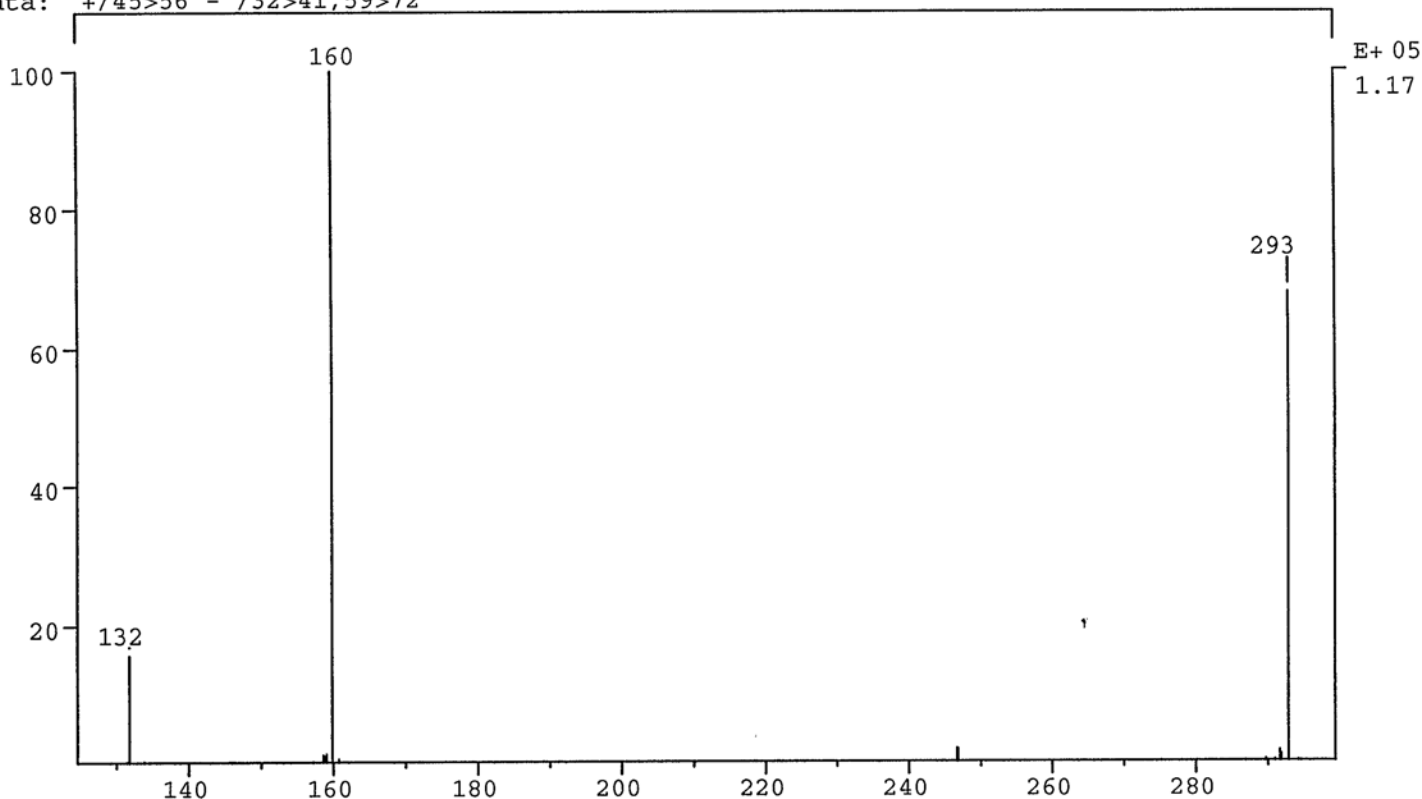


FBI(24-cv-1564)-3271

SPEC: stain28 10-FEB-95 DERIVED SPECTRUM 9
Samp: BLOOD STAIN 28,1HR H2O EXT.MC-FILTER Start : 14:07:22 100
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8 Inten : 116578
Norm: 159.8 RIC : 227460
Peak: 1000.00 mmu
Data: +/45>56 - /32>41,59>72

Inlet :
Masses: 128 > 296
#peaks: 161

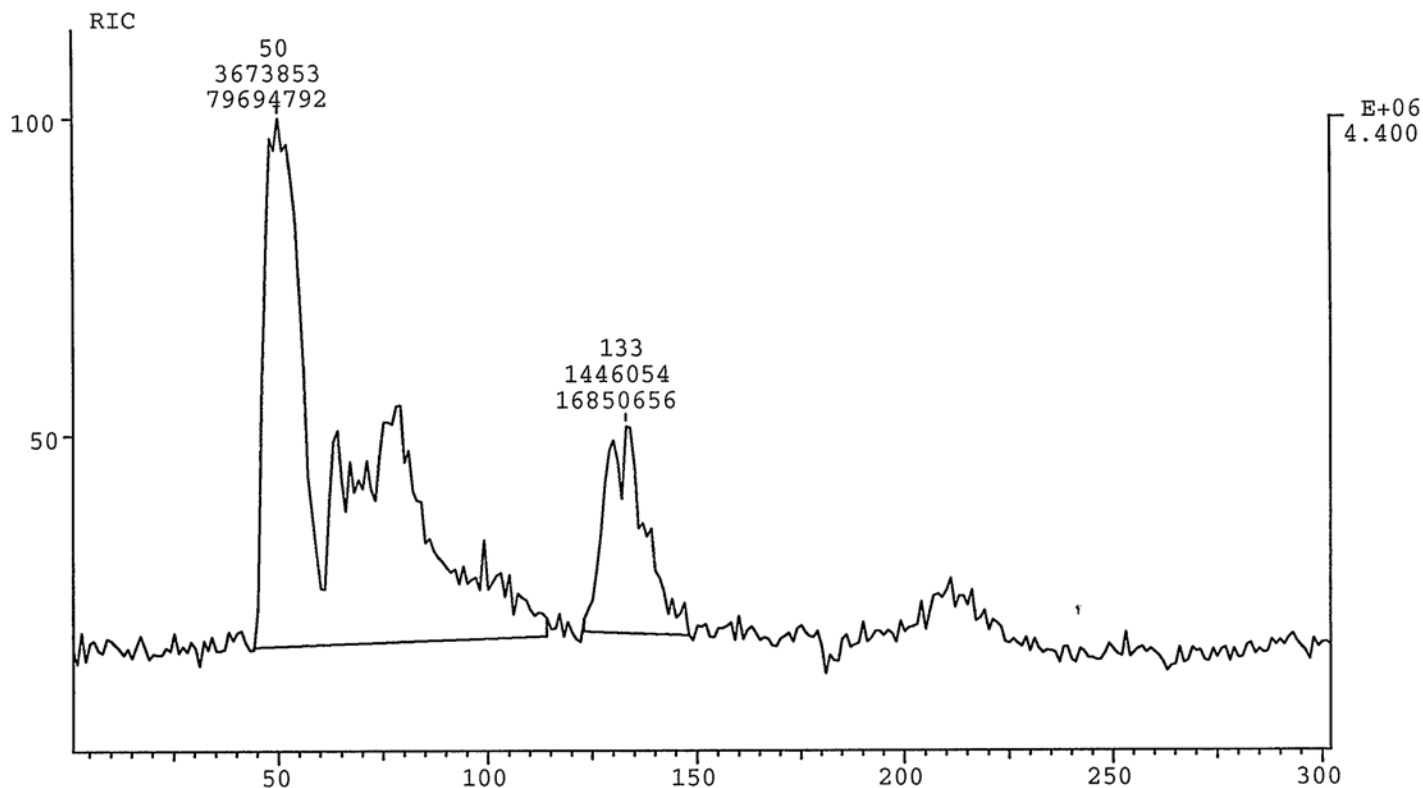
b6 -1
b7C -1



FBI(24-cv-1564)-3272

CHRO: stain28a 10-FEB-95 Elapse: 00:01:21.0 76
 Samp: BLOOD STAIN 28,1HR H2O EXT.MC-FILTER Start : 13:40:37 302
 Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
 Mode: ESI +Q1MS LMR UP LR
 Oper:
 Peak: 1000.00 mmu Label wndw: 1 > 302 Inlet : Masses: 85 > 350
 Area: 80, 4.00 Baseline : 0, 401 Label : 15, 40.00
 Disp: Height Area

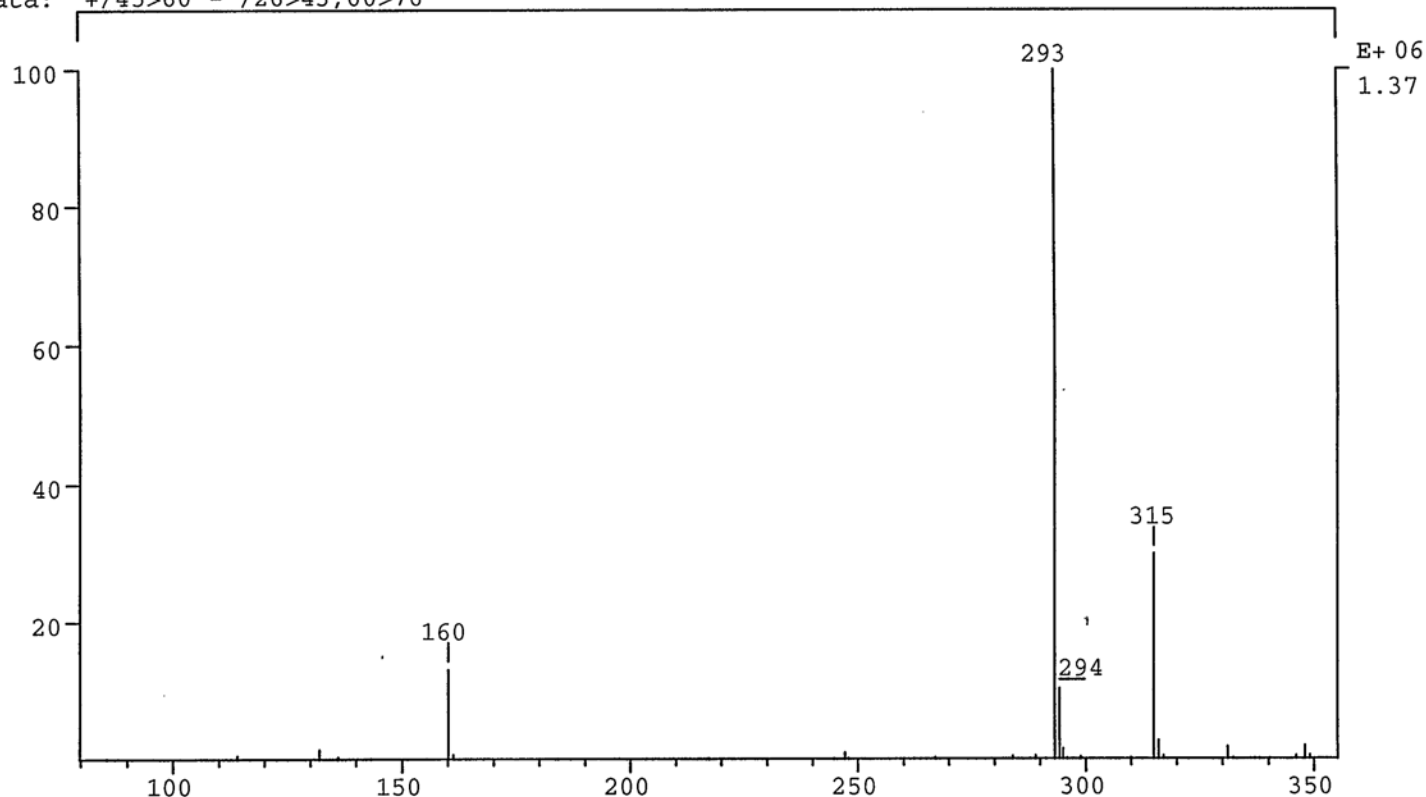
b6 -1
 b7c -1



FBI(24-cv-1564)-3273

SPEC: stain28a 10-FEB-95 DERIVED SPECTRUM 9
Samp: BLOOD STAIN 28,1HR H2O EXT.MC-FILTER Start : 13:40:37 302
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +Q1MS LMR UP LR
Oper:
Base: 293.1 Inten : 1369300 Inlet :
Norm: 293.1 RIC : 2351106 Masses: 85 > 350
Peak: 1000.00 mmu #peaks: 101
Data: +/45>60 - /26>43,60>76

b6 -1
b7C -1



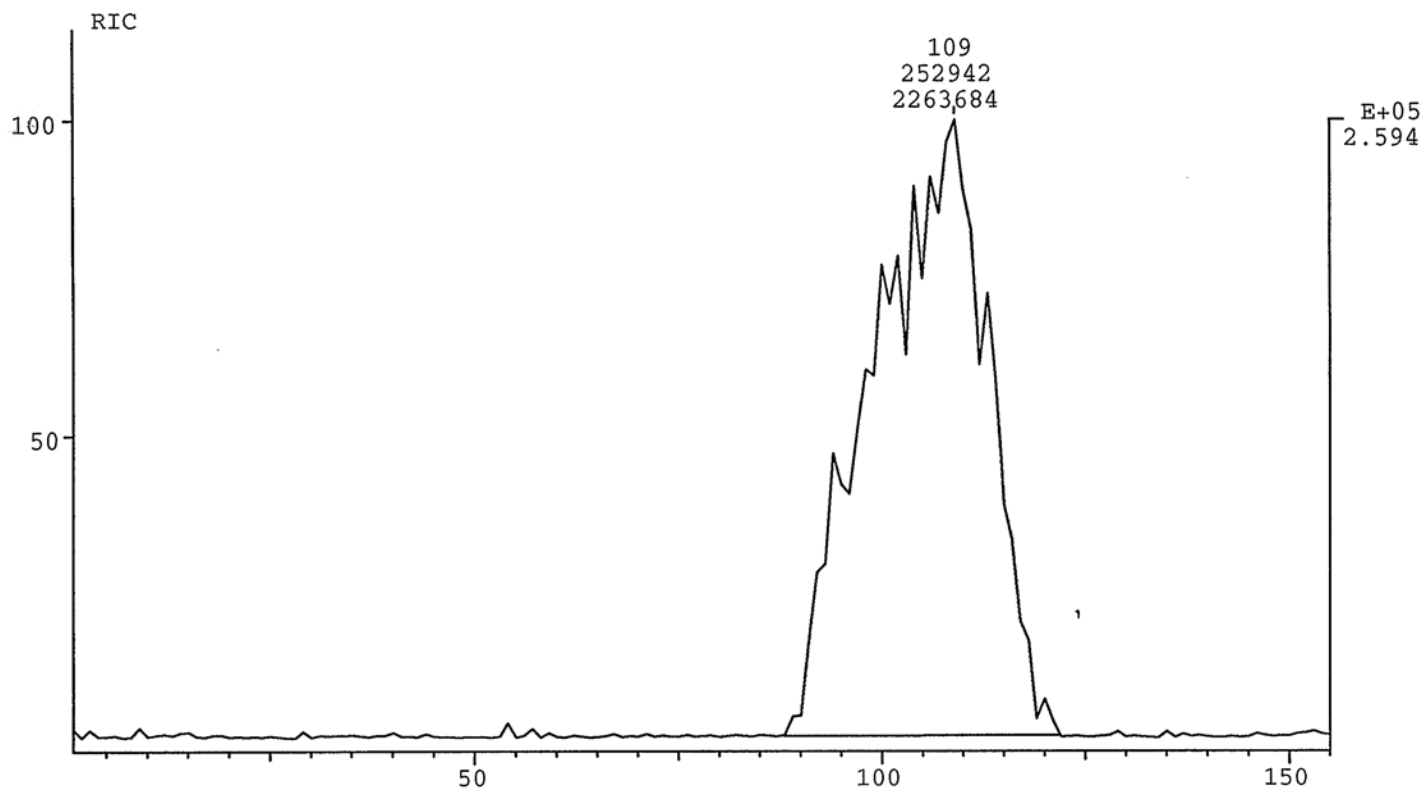
FBI(24-cv-1564)-3274

CHRO: stain29
Samp: BLOOD STAIN 29 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 155
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95 Elapse: 00:01:16.6 139
Start : 11:02:12 155

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3275

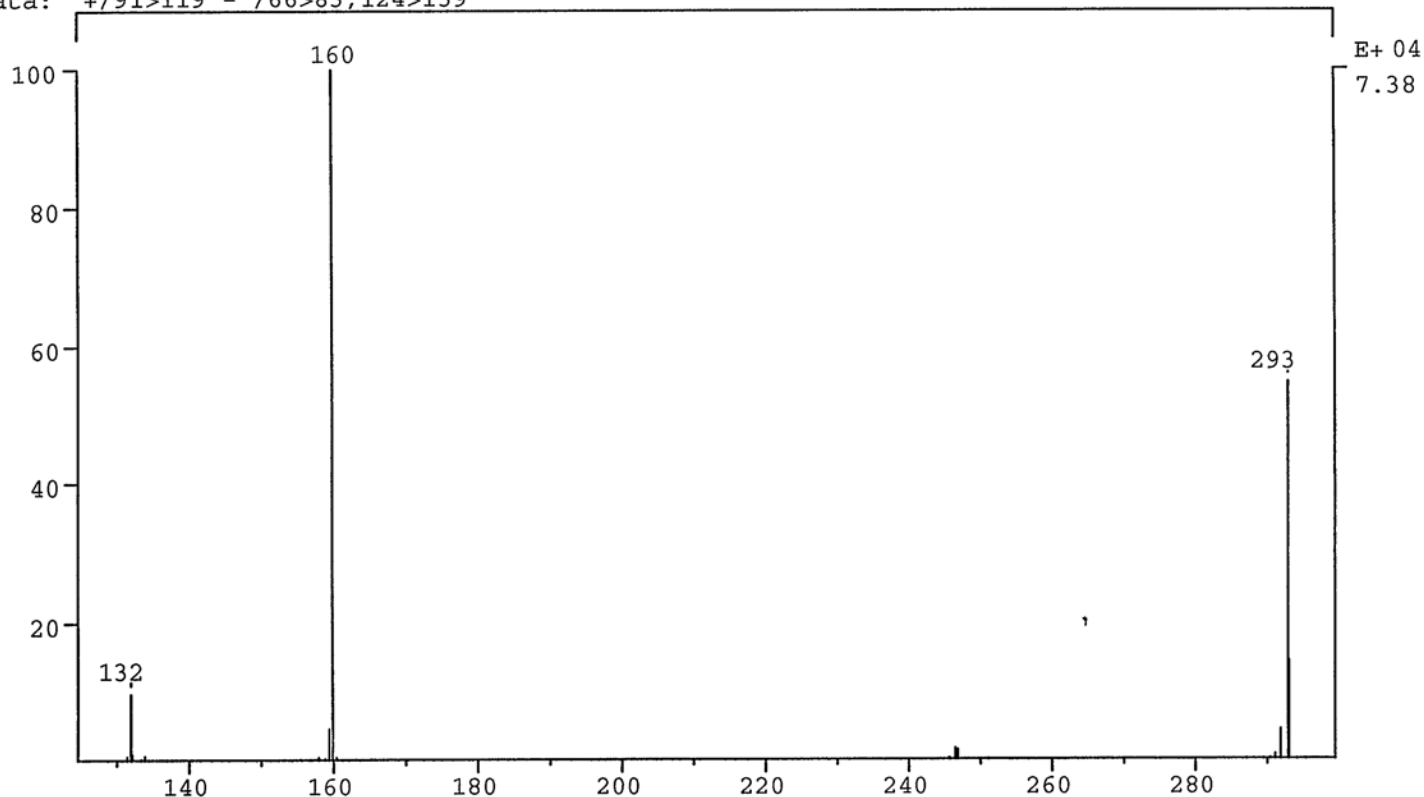
SPEC: stain29
Samp: BLOOD STAIN 29 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/91>119 - /66>83, 124>139

09-FEB-95

DERIVED SPECTRUM 9
Start : 11:02:12 155

Inlet :
Masses: 128 > 296
#peaks: 141

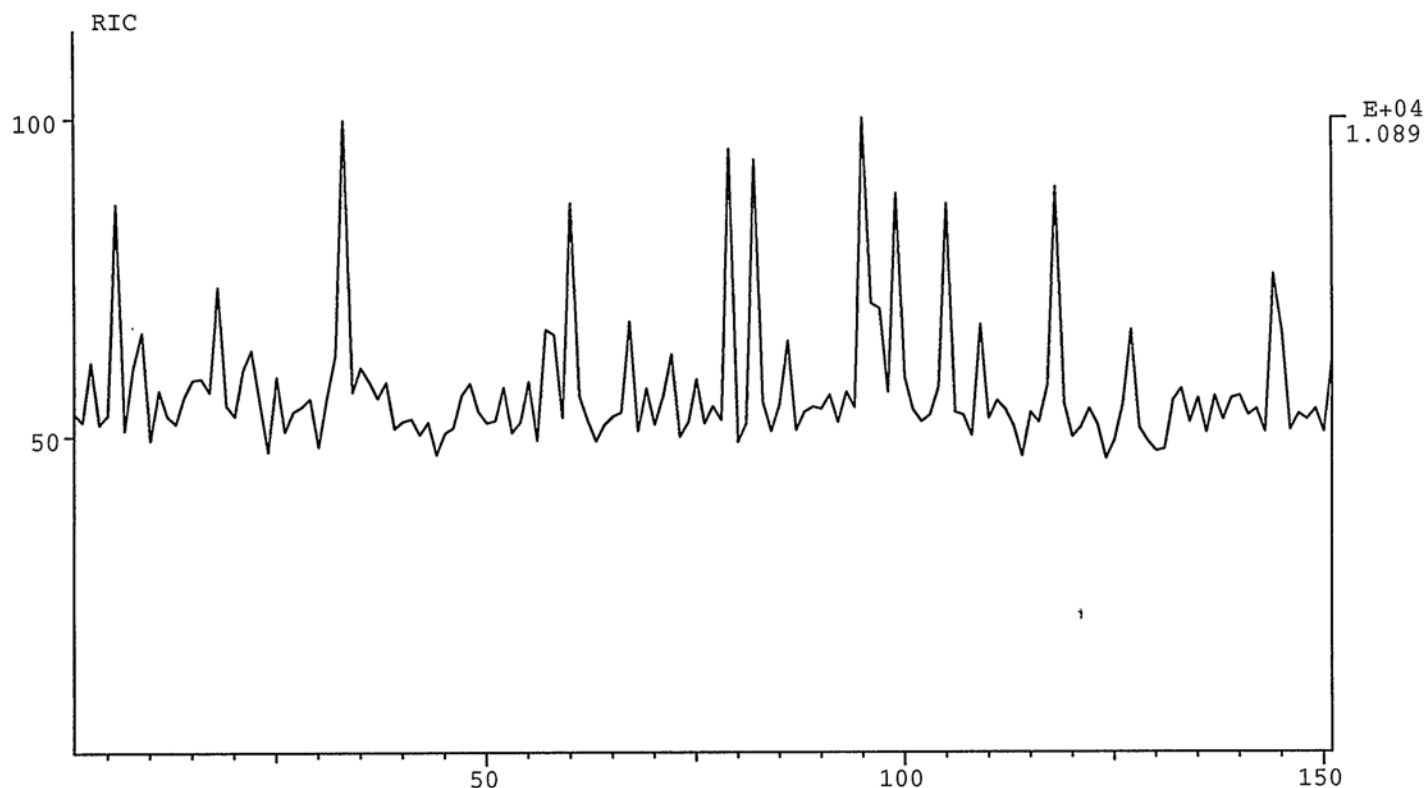
b6 -1
b7c -1



FBI(24-cv-1564)-3276

CHRO: stain29c 09-FEB-95 Elapse: 00:01:16.6 139
Samp: FABRIC FROM BLOOD STAIN 29 DILUTED, BM'S Start : 14:44:35 151
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper: ☐
Peak: 1000.00 mmu Label wndw: 1 > 151 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

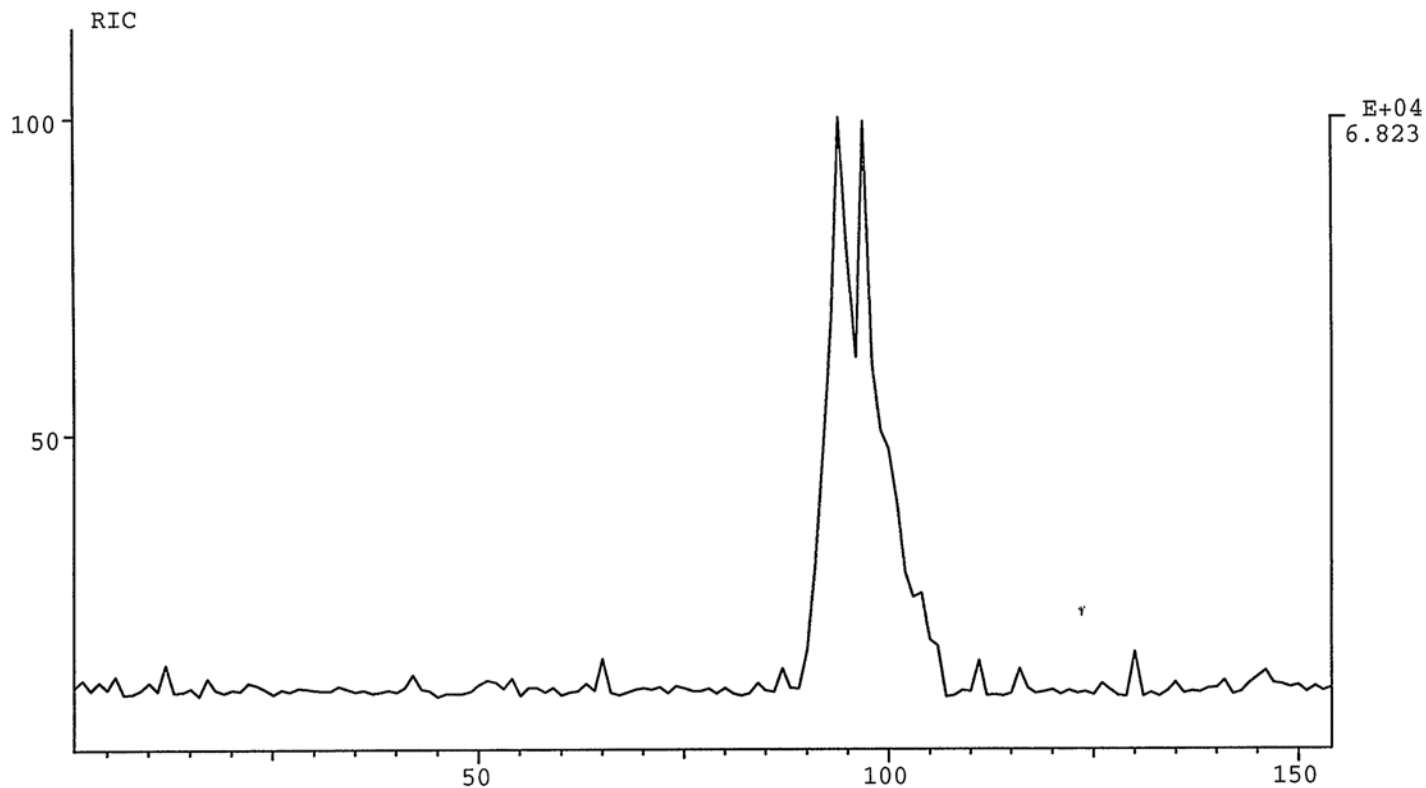
b6 -1
b7c -1



FBI(24-cv-1564)-3277

CHRO: stain3 08-FEB-95 Elapse: 00:01:16.7 139
Samp: BLOOD STAIN 3 DRIED/DILUTED, BM'S EXTR. Start : 16:54:50 154
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 154 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7C -1

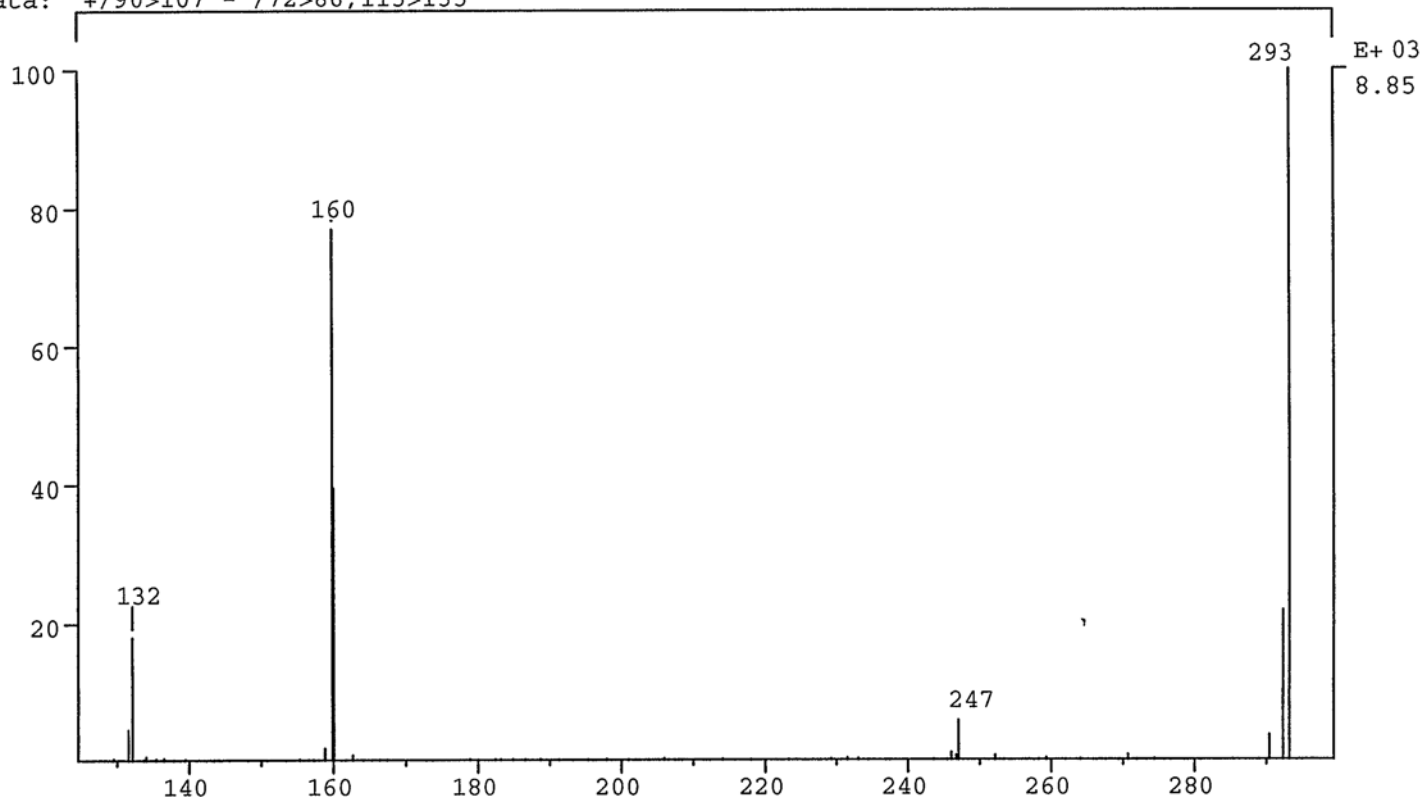


FBI(24-cv-1564)-3278

SPEC: stain3 08-FEB-95 DERIVED SPECTRUM 9
Samp: BLOOD STAIN 3 DRIED/DILUTED, BM'S EXTR. Start : 16:54:50 154
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 293.1 Inten : 8853
Norm: 293.1 RIC : 25591
Peak: 1000.00 mmu
Data: +/90>107 - /72>86, 115>135

Inlet :
Masses: 128 > 296
#peaks: 132

b6 -1
b7c -1



FBI(24-cv-1564)-3279

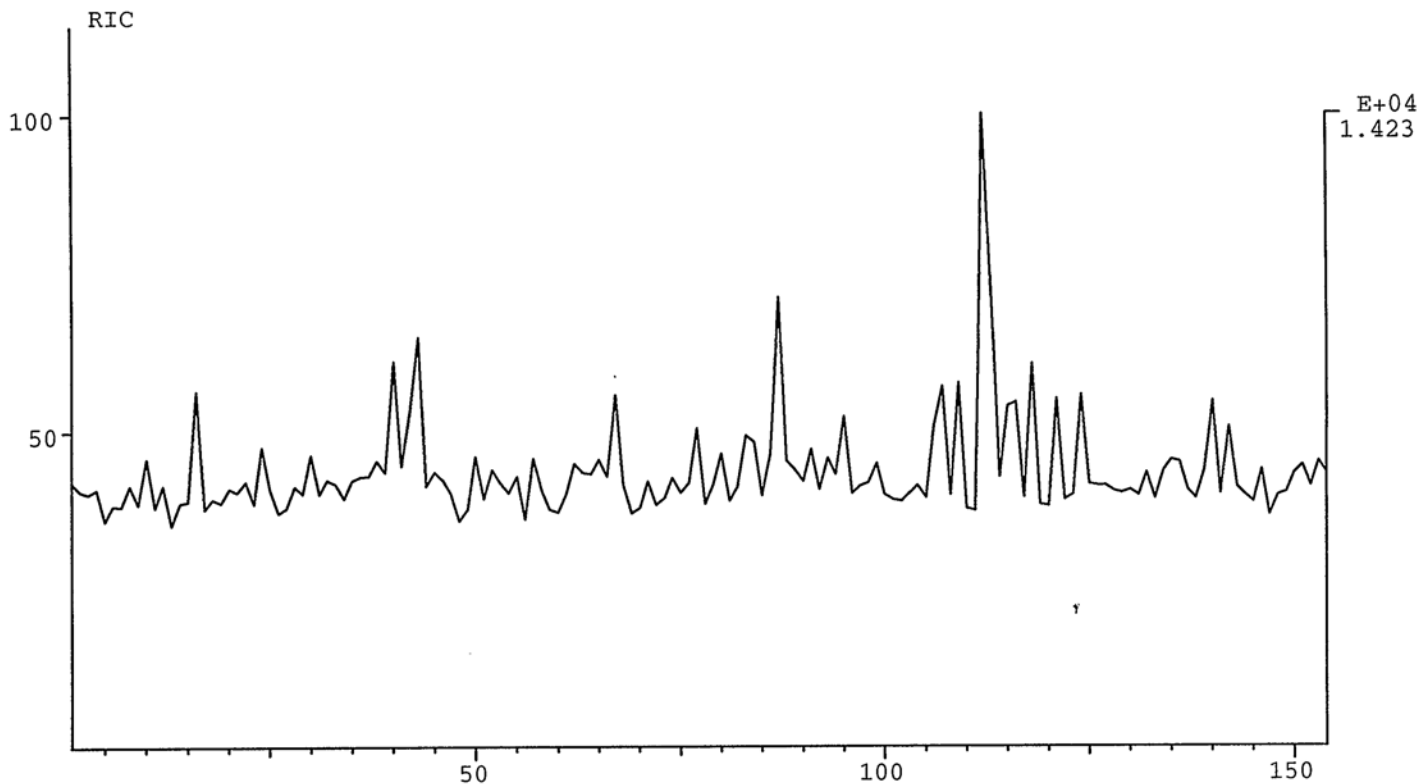
CHRO: stain30
Samp: BLOOD STAIN 30 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ~~FST~~ +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

09-FEB-95

Elapse: 00:00:59.7 107
Start : 11:09:15 154

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3280

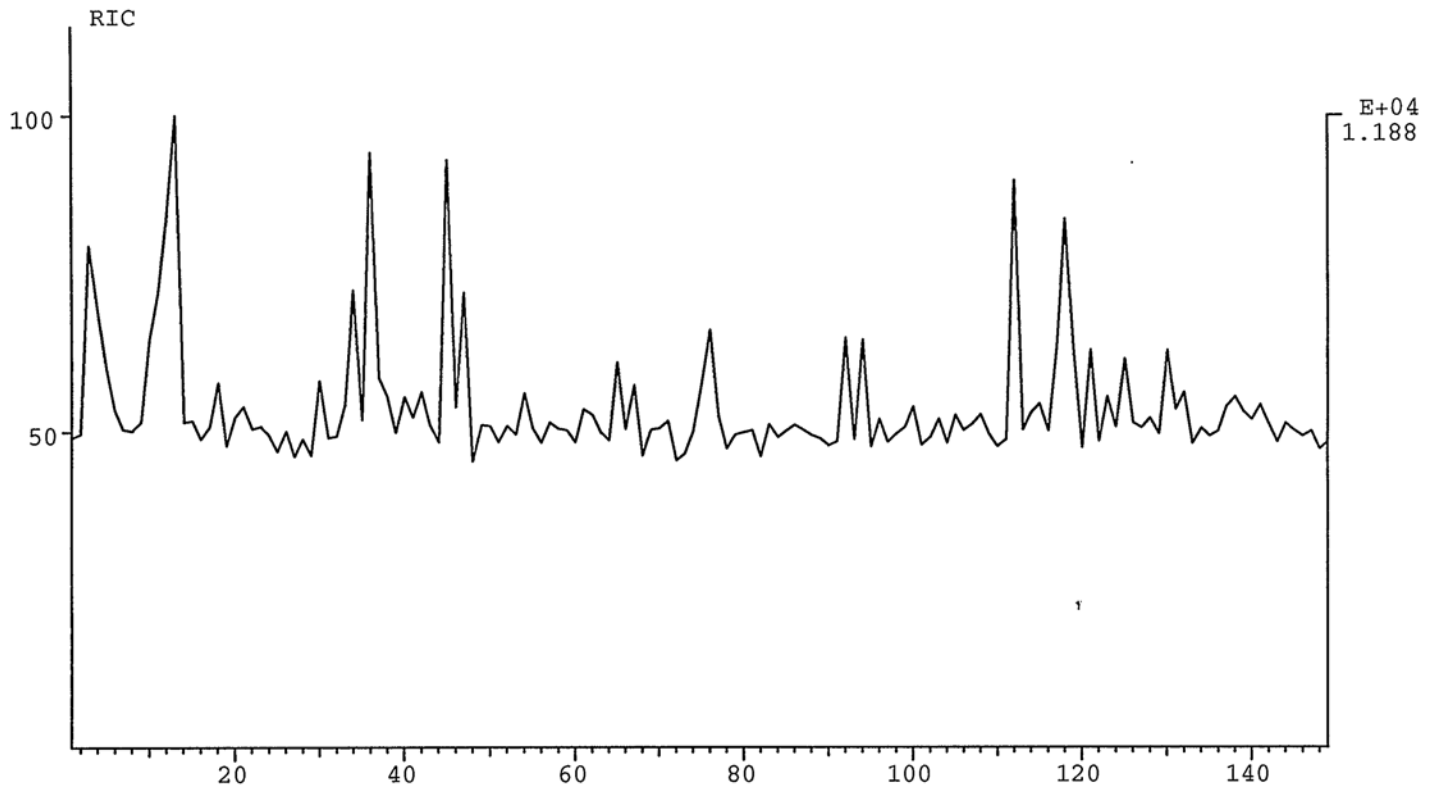
CHRO: stain31
Samp: BLOOD STAIN 31 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

09-FEB-95

Elapse: 00:00:59.3 107
Start : 11:16:46 149

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3281

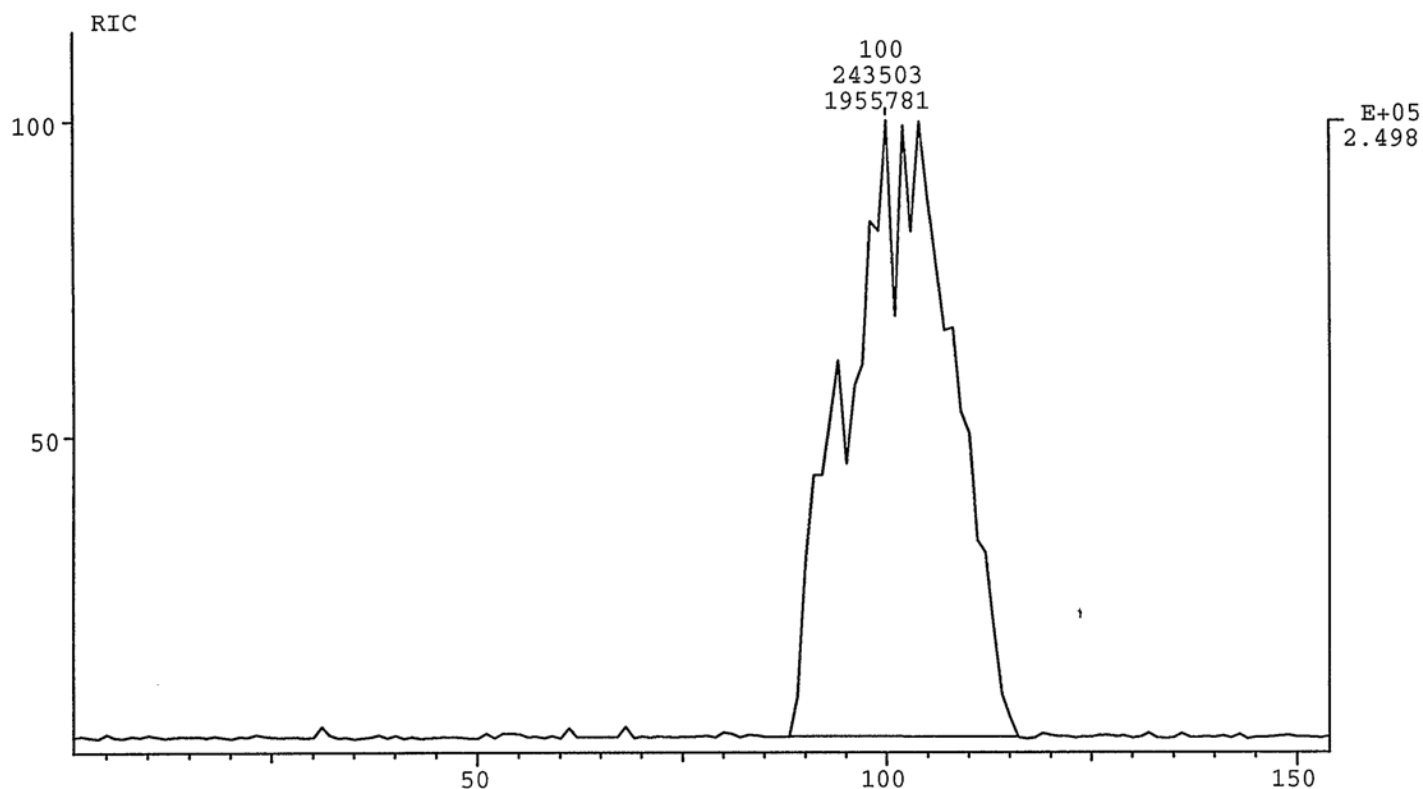
CHRO: stain32
Samp: BLOOD STAIN 32 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 154
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95

Elapse: 00:01:18.0 141
Start : 11:21:43 154

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3282

SPEC: stain32
Samp: BLOOD STAIN 32 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8 Inten : 64174
Norm: 159.8 RIC : 126426
Peak: 1000.00 mmu
Data: +/88>116 - /72>83, 119>141

09-FEB-95

DERIVED SPECTRUM

9

Start : 11:21:43

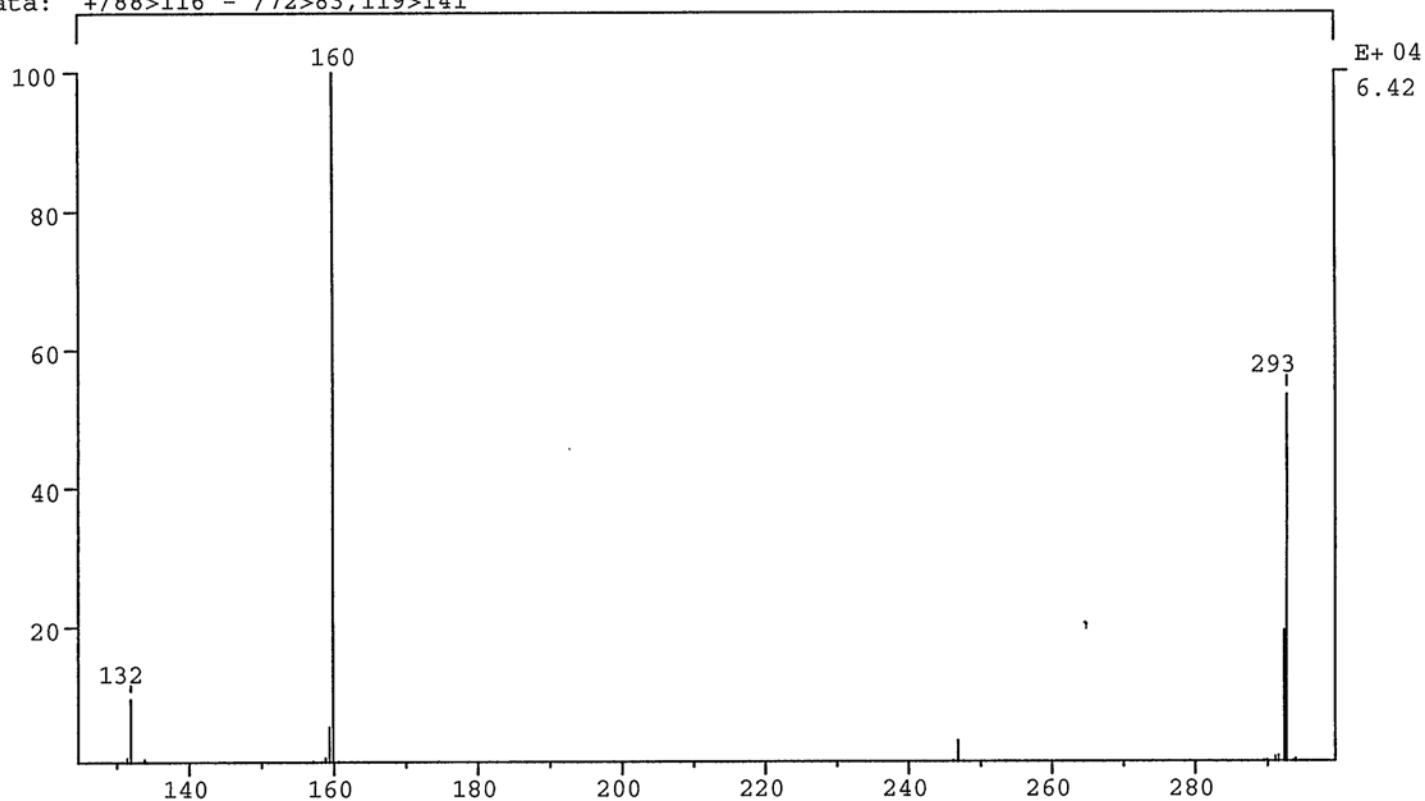
154

Inlet :

Masses: 128 > 296

#peaks: 139

b6 -1
b7c -1



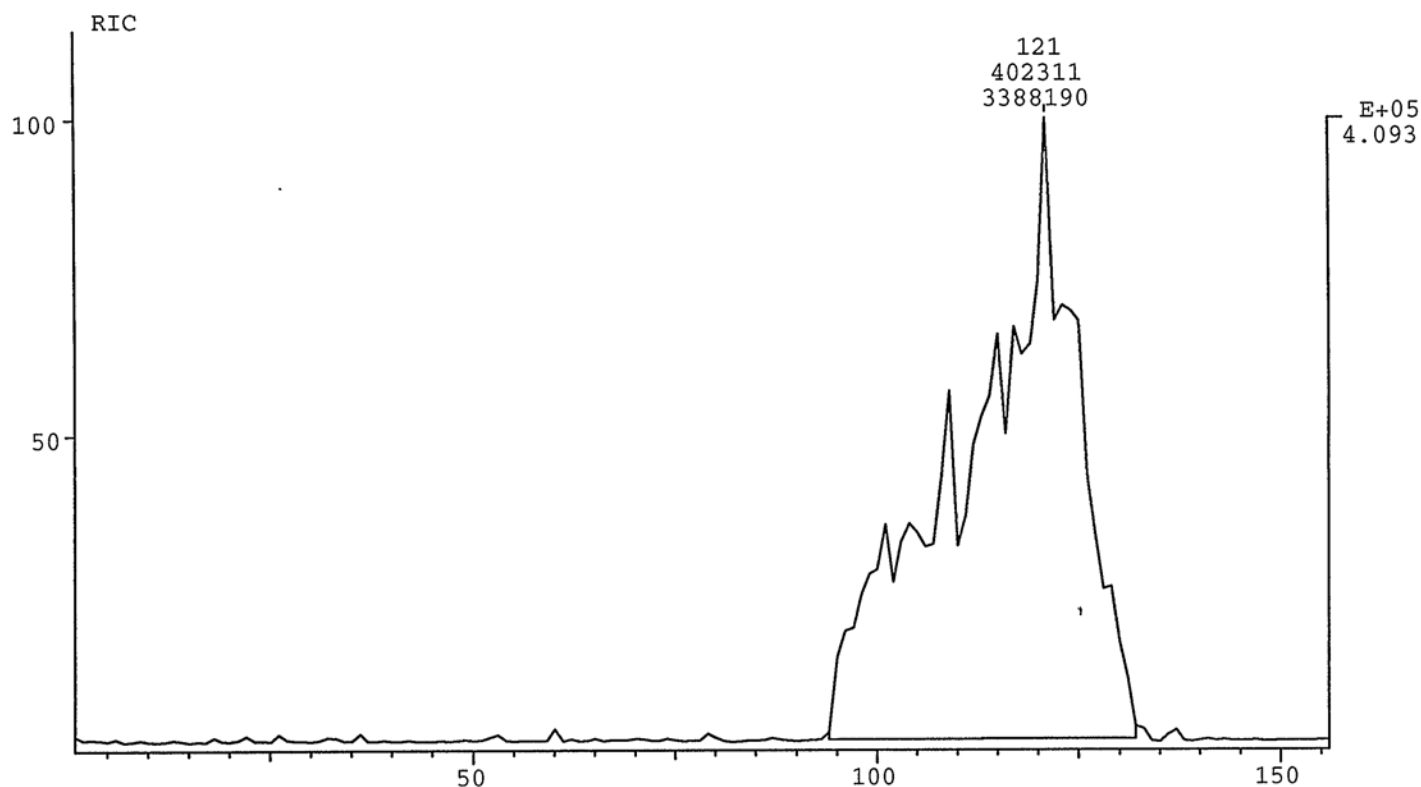
FBI(24-cv-1564)-3283

CHRO: stain33
Samp: BLOOD STAIN 33 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 156
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95 Elapse: 00:01:17.3 141
Start : 11:27:10 156

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3284

SPEC: stain33
Samp: BLOOD STAIN 33 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/94>132 - /77>89, 135>152

09-FEB-95

DERIVED SPECTRUM

9

Start : 11:27:10

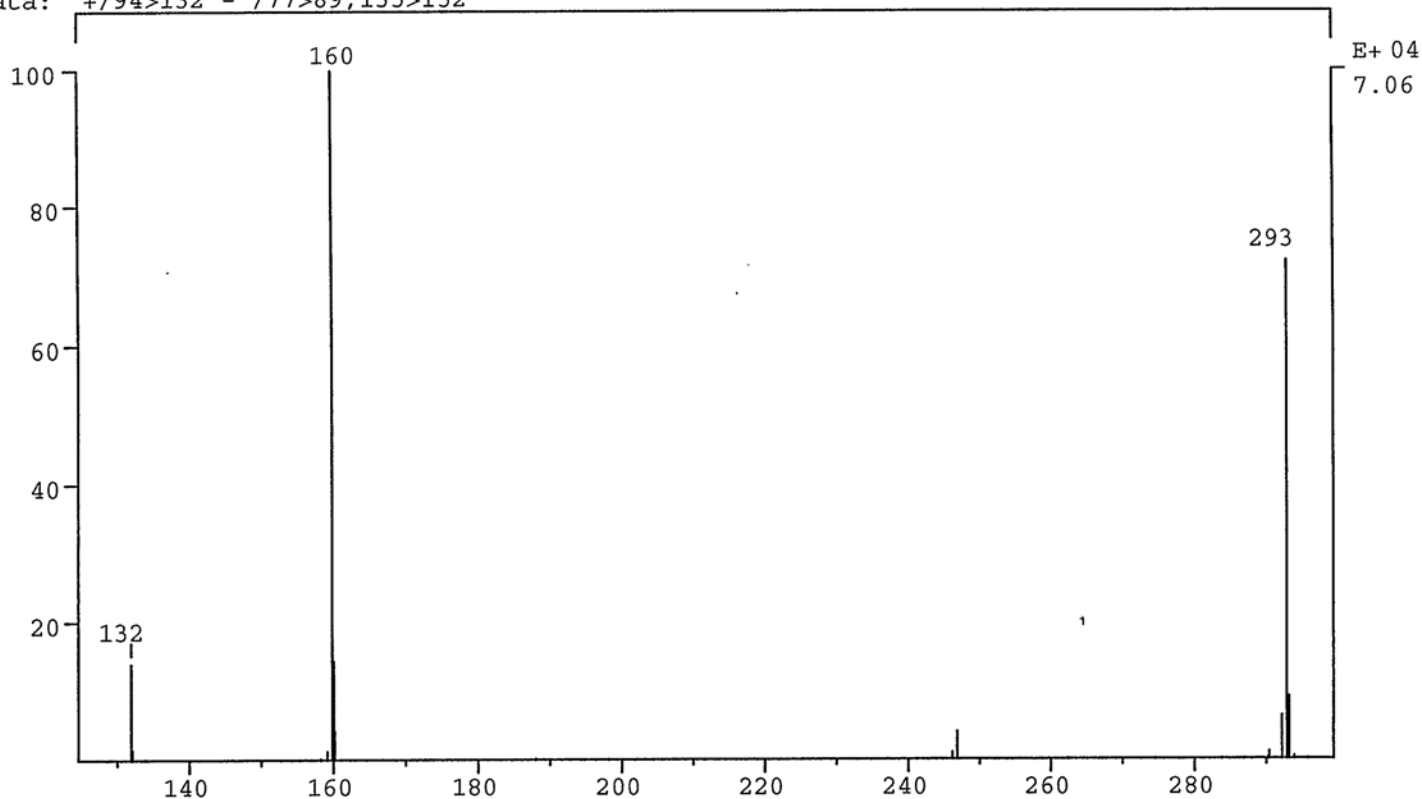
156

Inlet :

Masses: 128 > 296

#peaks: 151

b6 -1
b7c -1



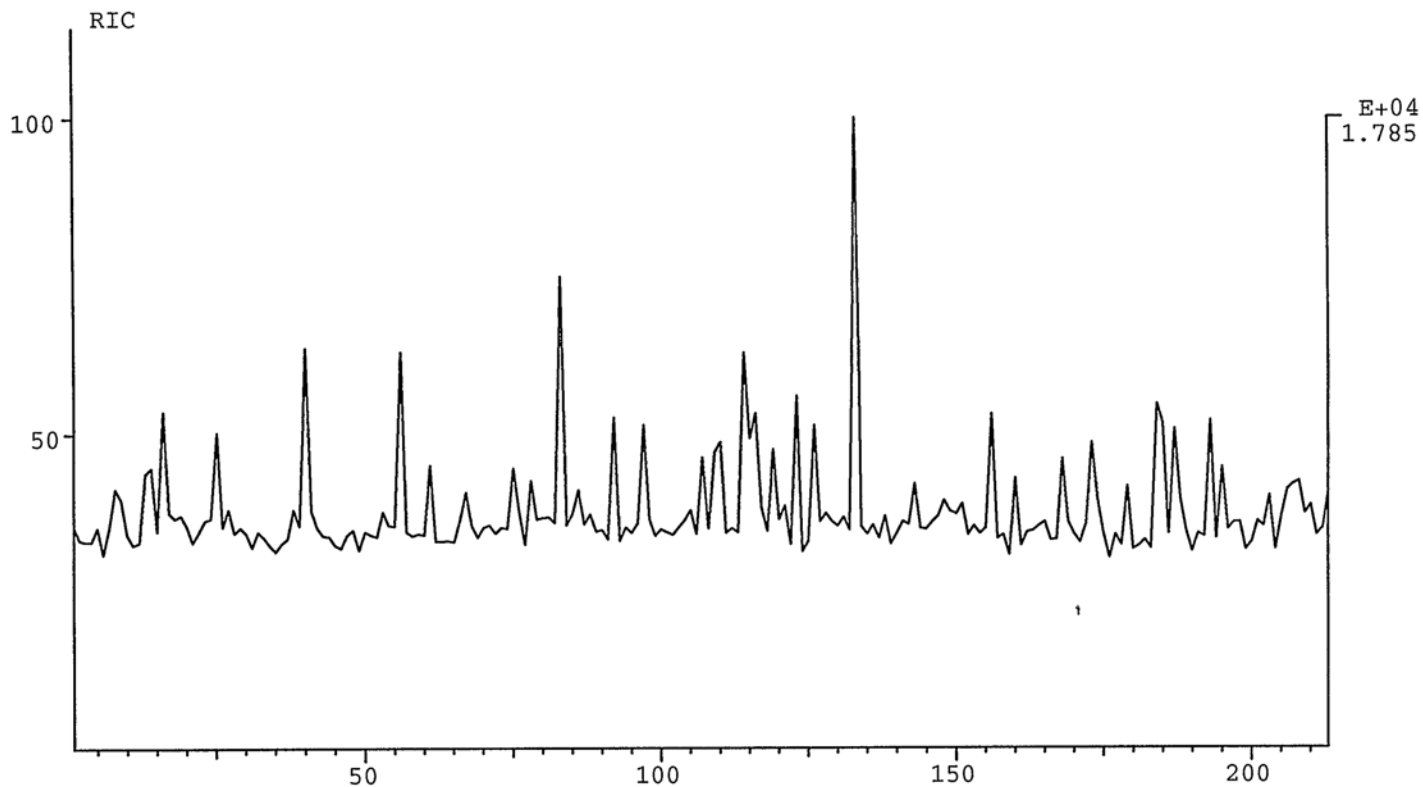
FBI(24-cv-1564)-3285

CHRO: stain34
Samp: BLOOD STAIN 34 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 213
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95 Elapse: 00:01:12.9 132
Start : 13:27:30 213

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



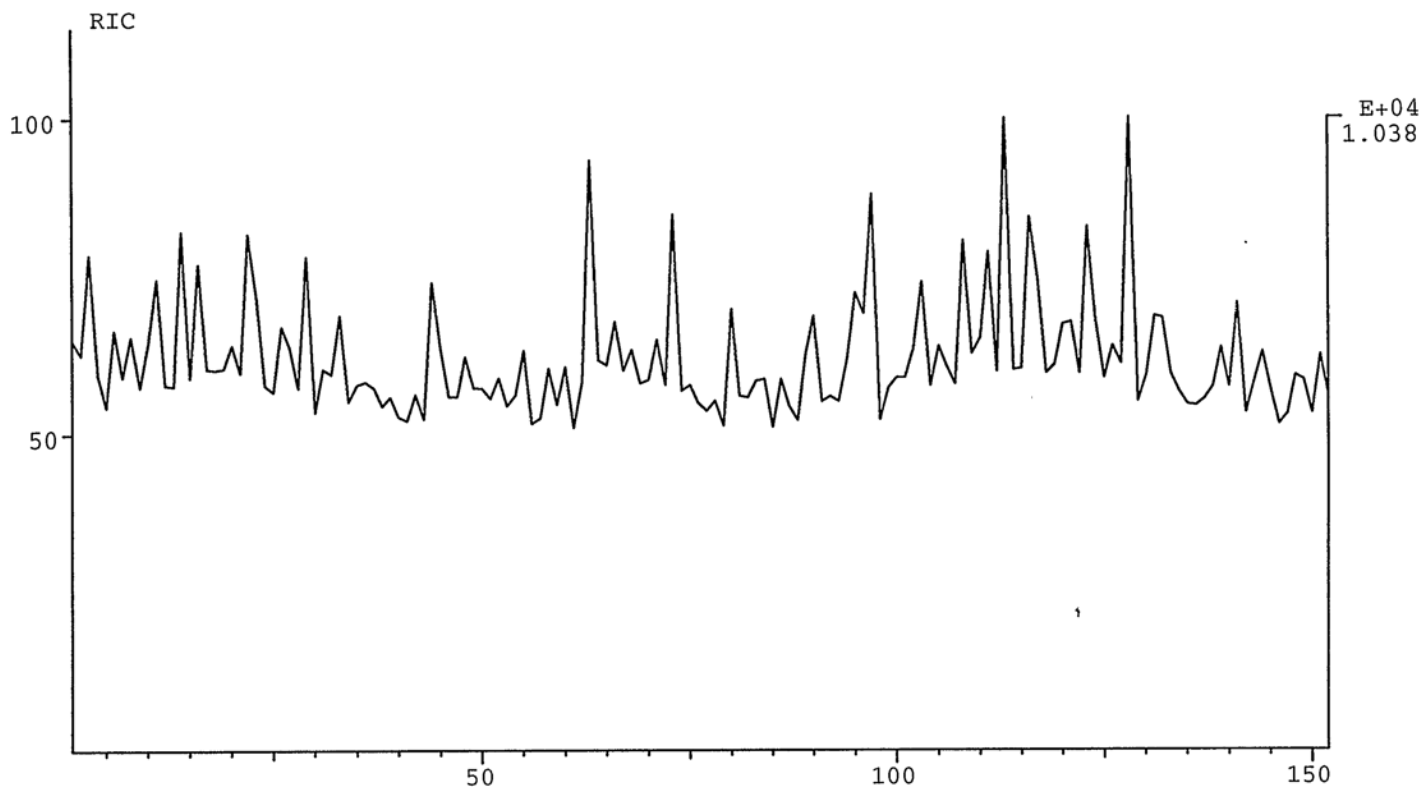
FBI(24-cv-1564)-3286

CHRO: stain35
Samp: BLOOD STAIN 35 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 152
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95 Elapse: 00:01:12.8 132
Start : 13:31:19 152

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



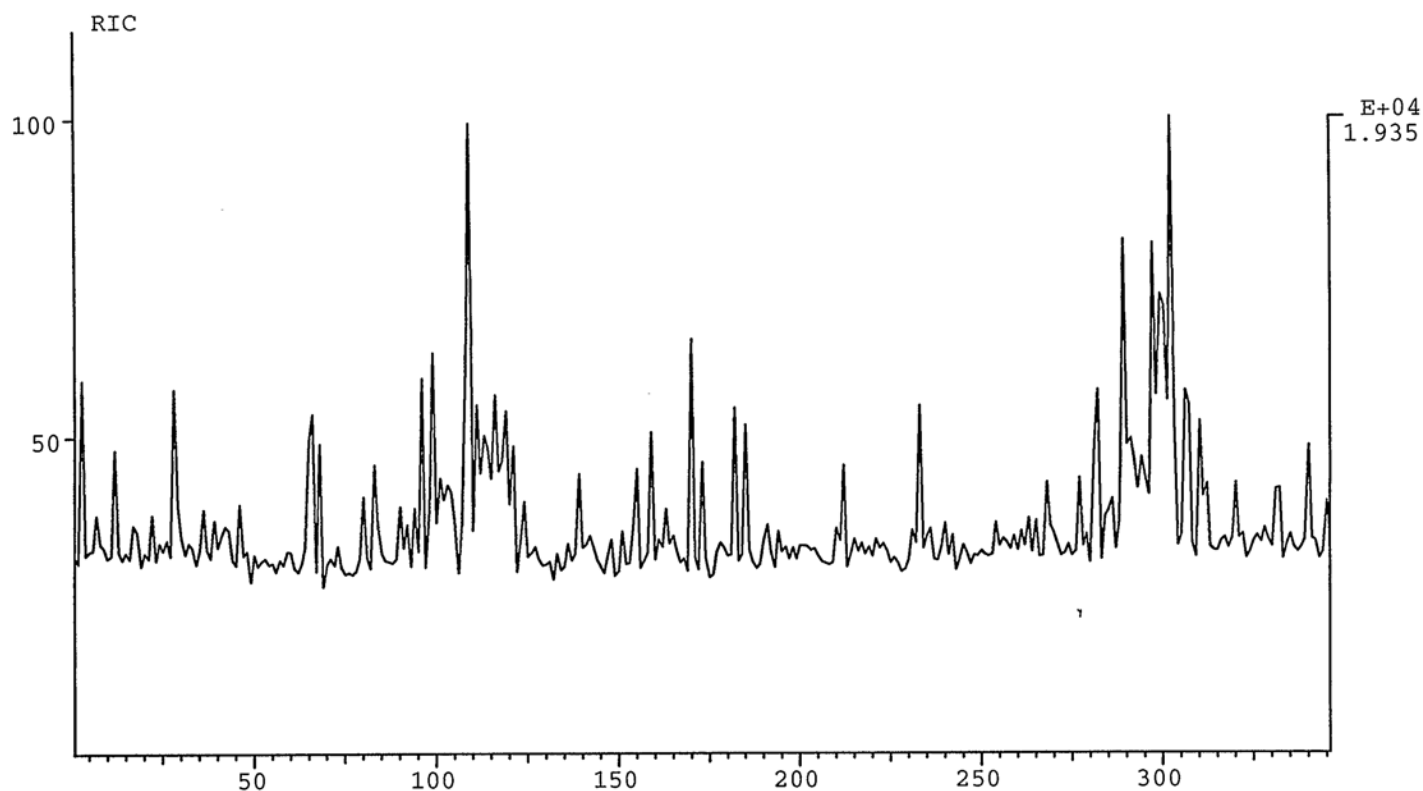
FBI(24-cv-1564)-3287

CHRO: stain36
Samp: BLOOD STAIN 36 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 346
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95 Elapse: 00:02:38.5 293
Start : 13:36:05 346

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3288

CHRO: stain37
Samp: BLOOD STAIN 37 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR

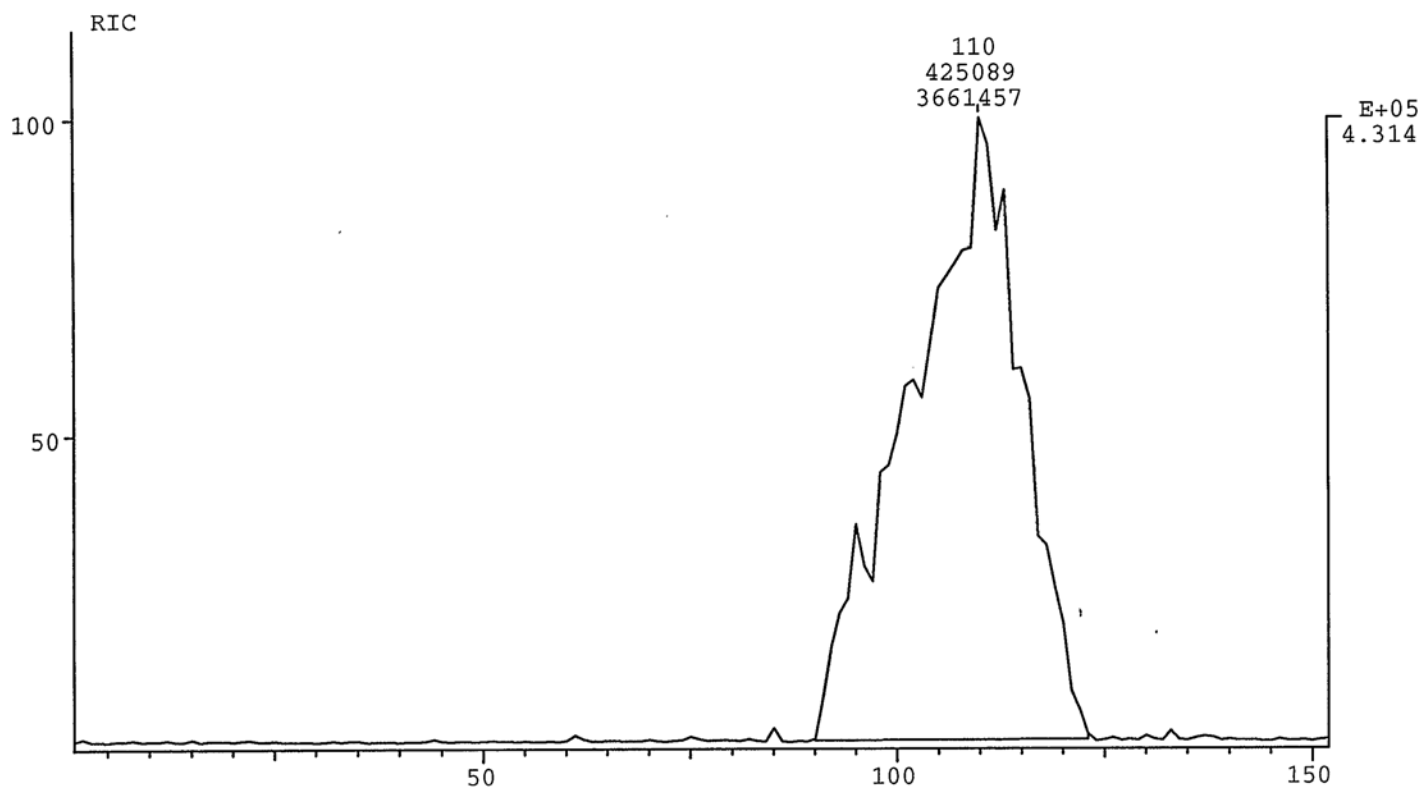
09-FEB-95

Elapse: 00:01:17.3 140
Start : 13:50:14 152

Oper:
Peak: 1000.00 mmu Label wndw: 1 > 152
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3289

SPEC: stain37
Samp: BLOOD STAIN 37 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8 Inten : 93955
Norm: 159.8 RIC : 202447
Peak: 1000.00 mmu
Data: +/90>122 - /67>81, 126>140

09-FEB-95

DERIVED SPECTRUM

9

Start : 13:50:14

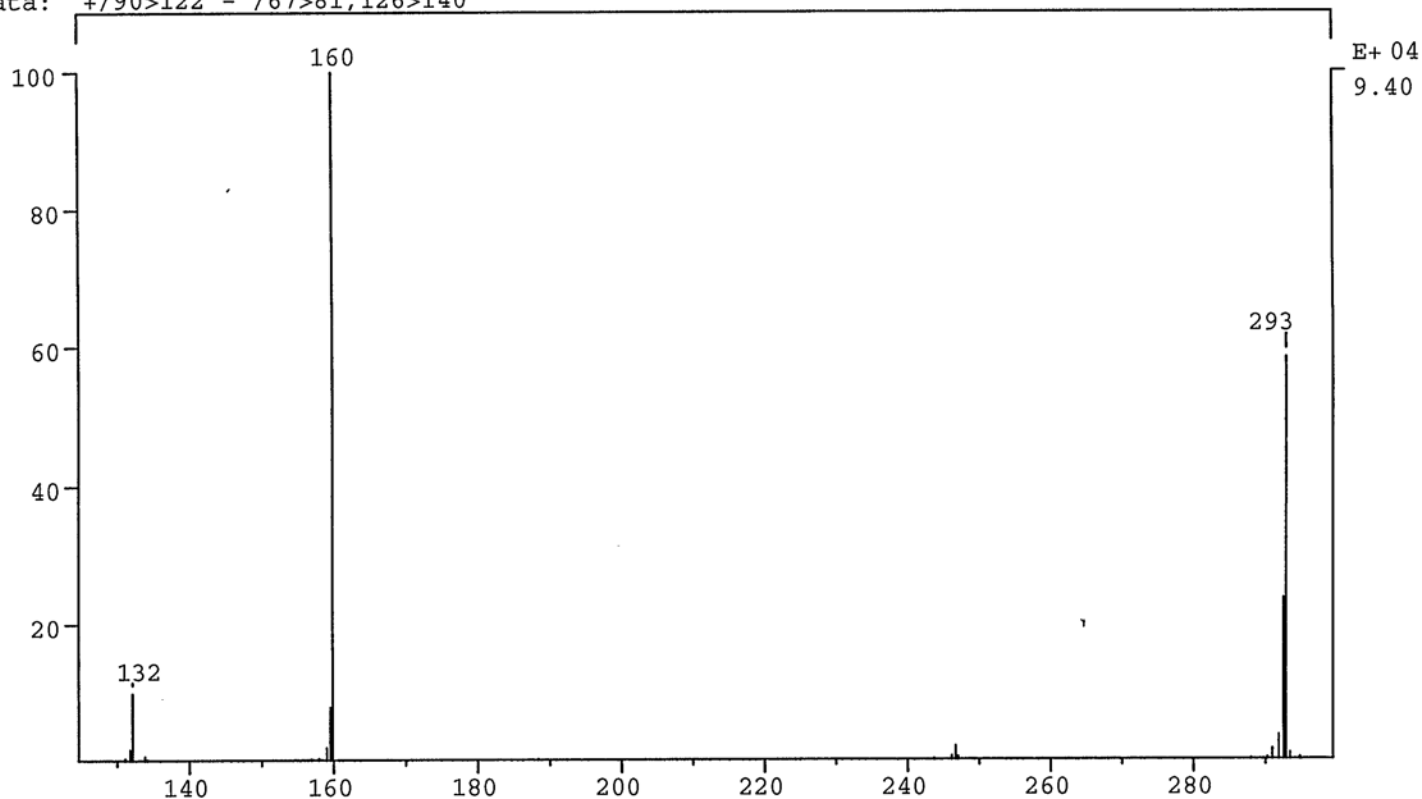
152

Inlet :

Masses: 128 > 296

#peaks: 130

b6 -1
b7c -1



FBI(24-cv-1564)-3290

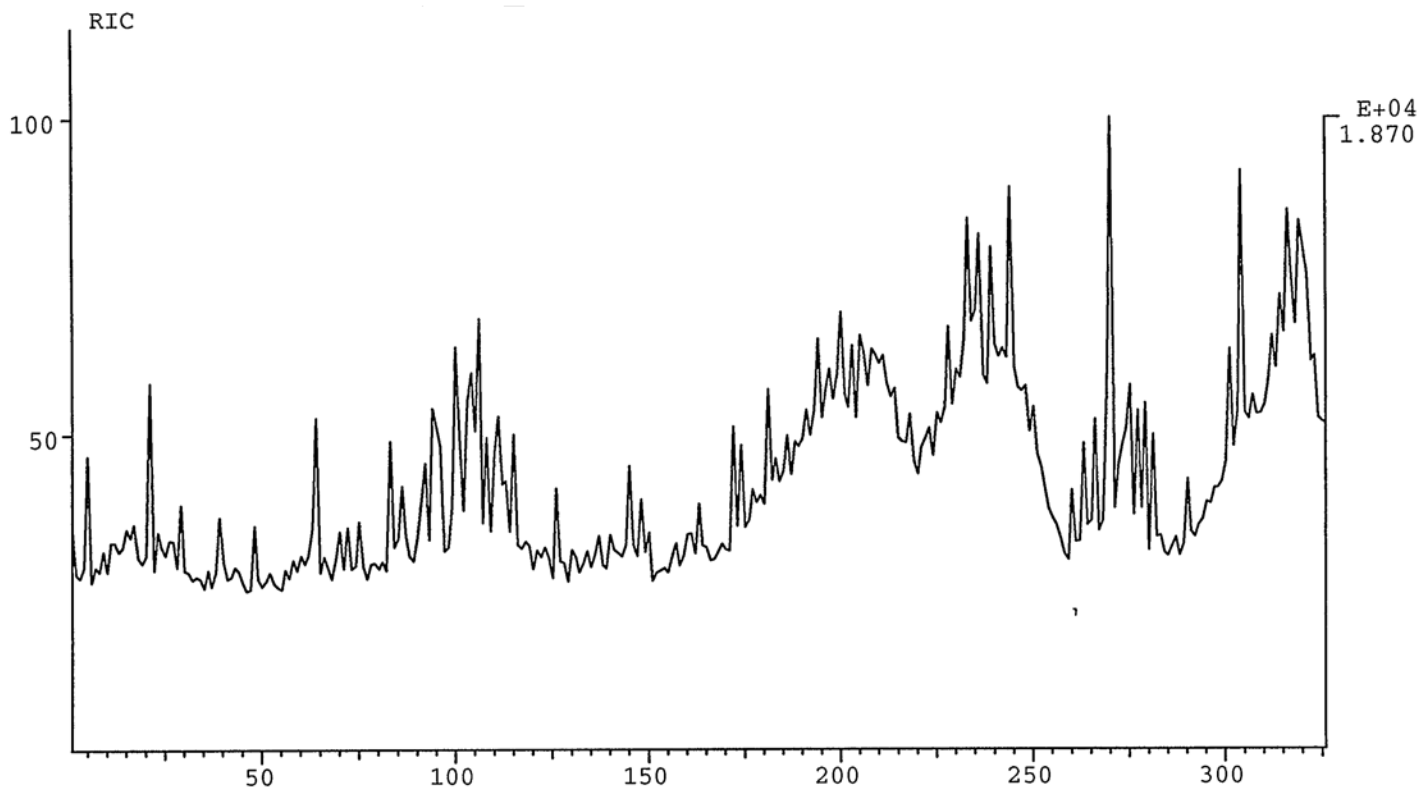
CHRO: stain38
Samp: BLOOD STAIN 38 DILUTED, BM'S EXTR
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

09-FEB-95

Elapse: 00:01:17.2 140
Start : 13:57:03 326

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3291

SPEC: stain38
Samp: BLOOD STAIN 38 DILUTED, BM'S EXTR
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 292.7 Inten : 739
Norm: 292.7 RIC : 2369
Peak: 1000.00 mmu
Data: +/82>117 - /40>66, 126>191

09-FEB-95

DERIVED SPECTRUM

9

Start : 13:57:03

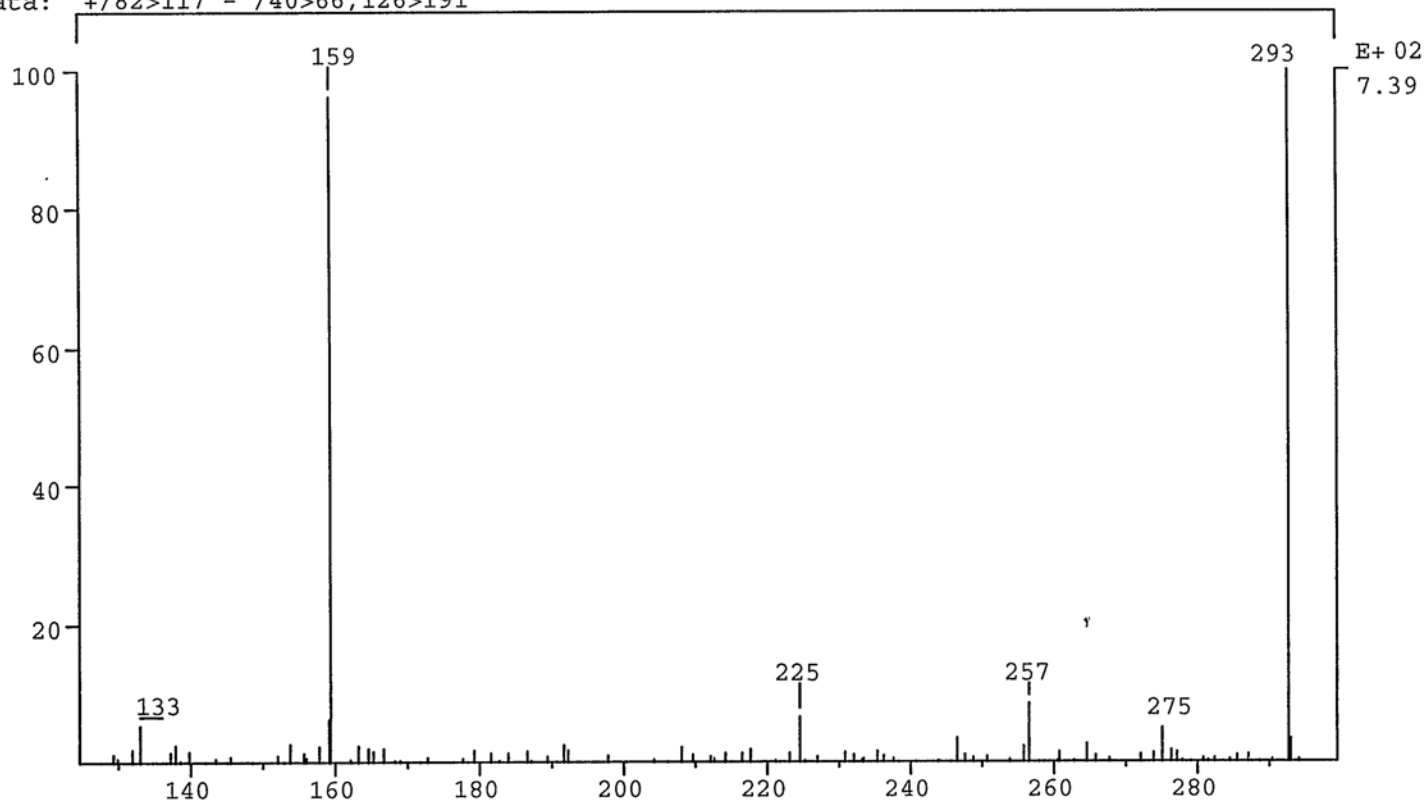
326

Inlet :

Masses: 128 > 296

#peaks: 126

b6 -1
b7c -1



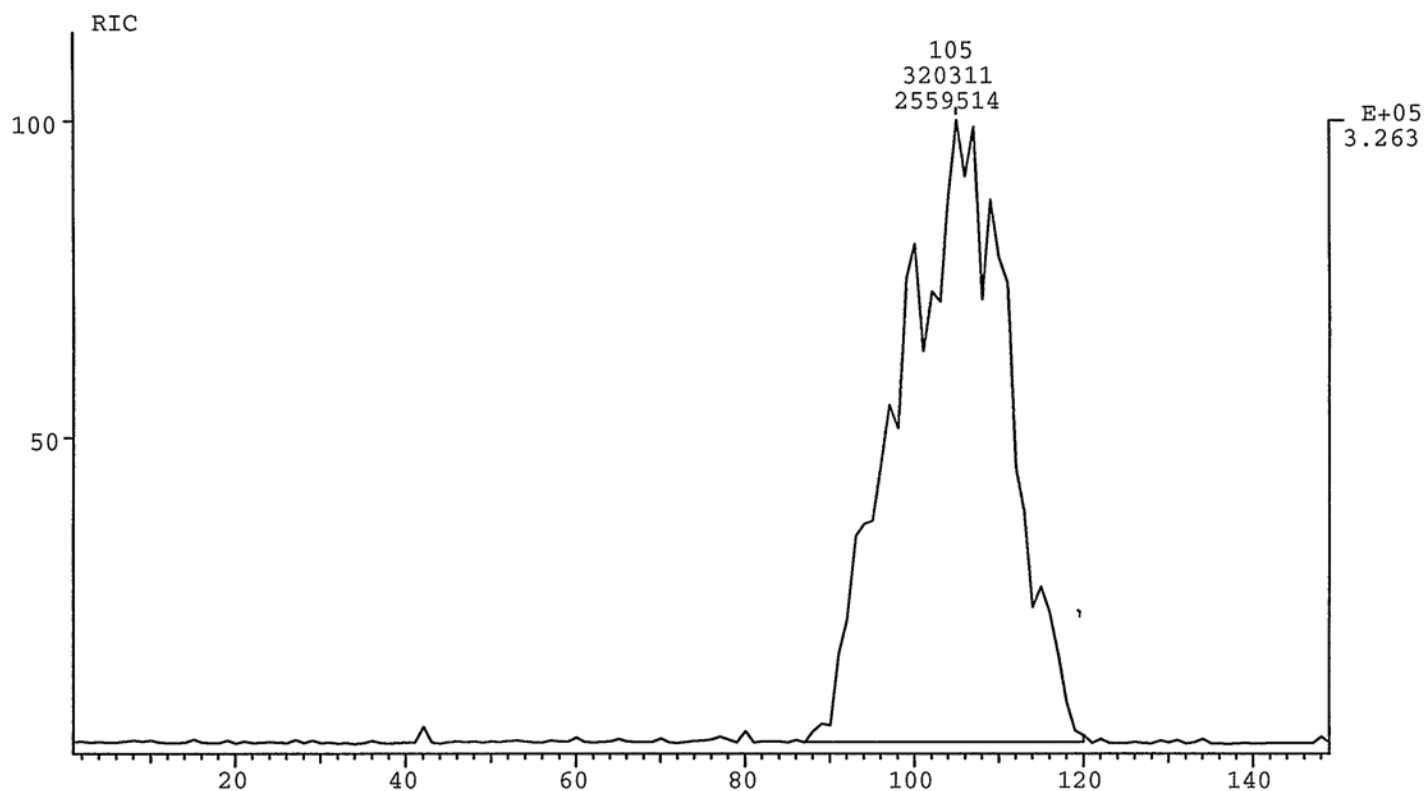
FBI(24-cv-1564)-3292

CHRO: stain39
Samp: BLOOD STAIN 39 DILUTED, BM'S EXTR
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 149
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95 Elapse: 00:01:18.4 142
Start : 14:08:34 149

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3293

SPEC: stain39
Samp: BLOOD STAIN 39 DILUTED, BM'S EXTR
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.9 Inten : 80107
Norm: 159.9 RIC : 172403
Peak: 1000.00 mmu
Data: +/91>118 - /69>86, 126>142

09-FEB-95

DERIVED SPECTRUM

9

Start : 14:08:34

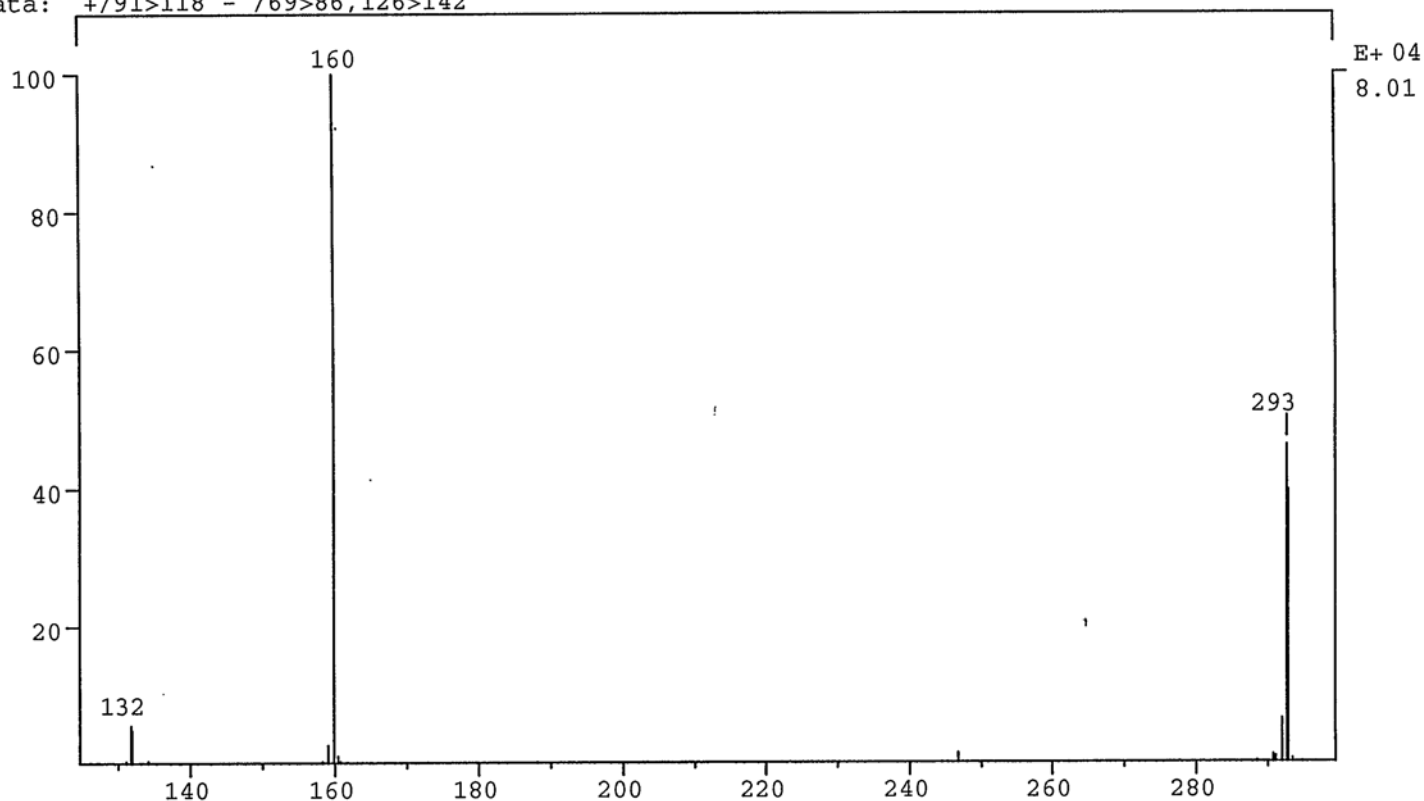
149

Inlet :

Masses: 128 > 296

#peaks: 165

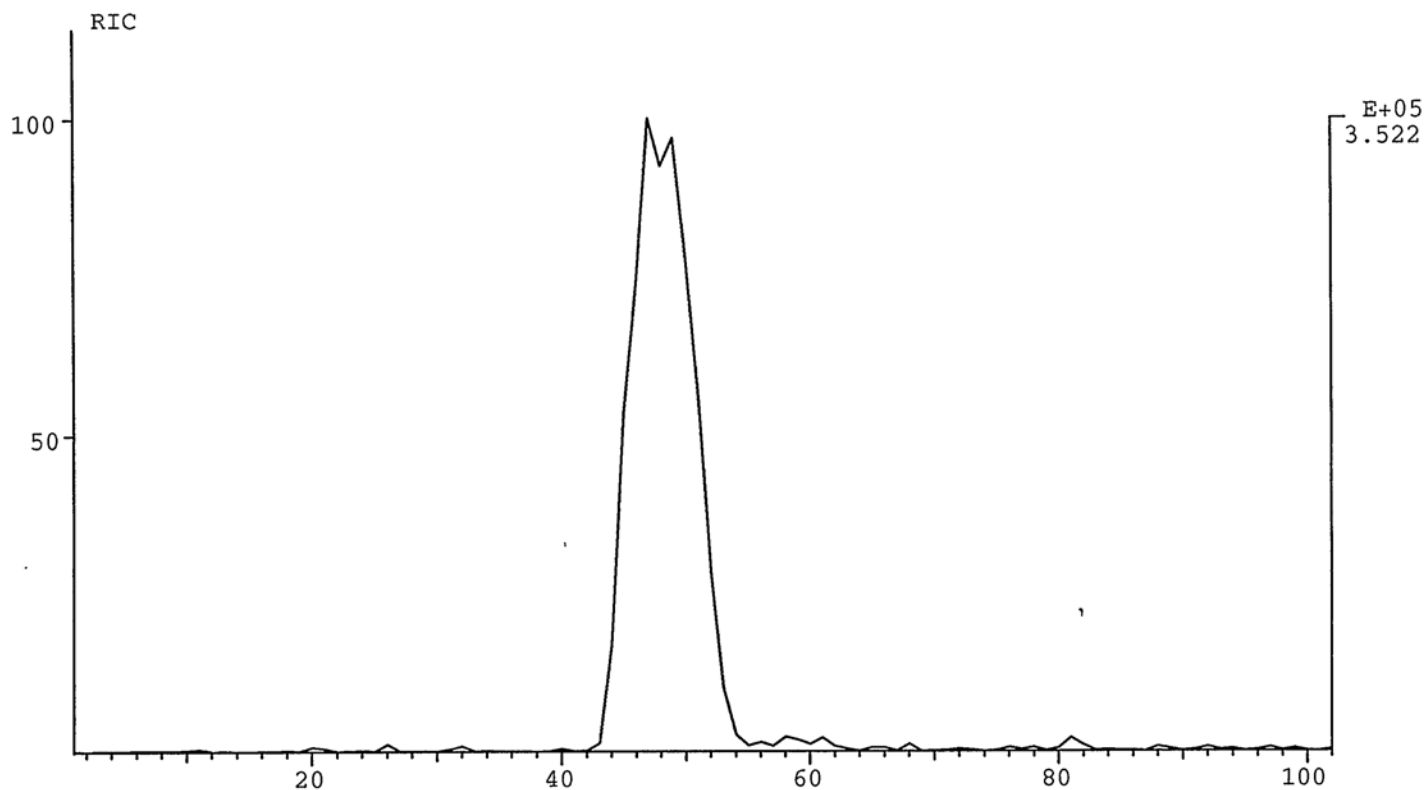
b6 -1
b7C -1



FBI(24-cv-1564)-3294

CHRO: stain3a 10-FEB-95 Elapse: 00:02:29.8 142
Samp: BLOOD STAIN 3,45MIN H2O EXT.MC-FILTER Start : 16:21:34 102
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 102 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7C -1

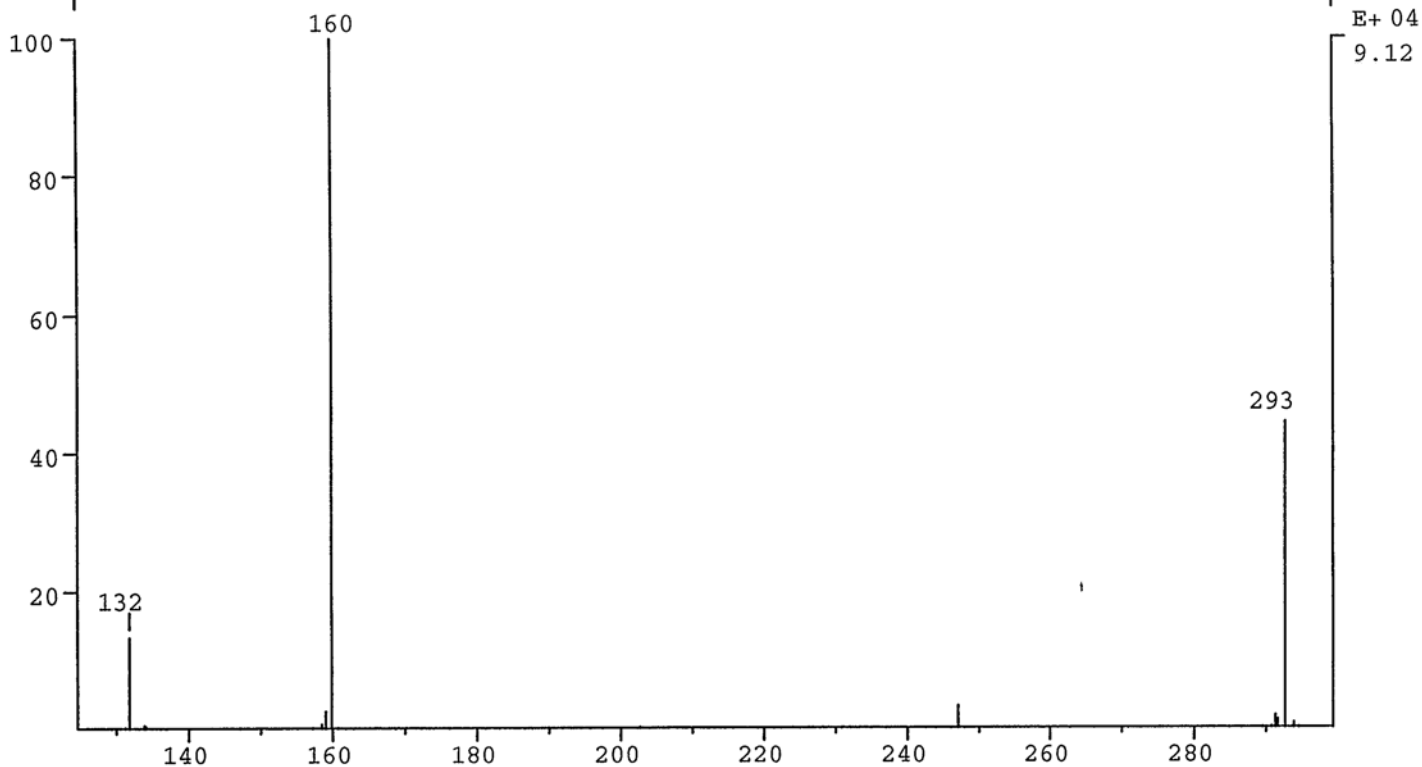


FBI(24-cv-1564)-3295

SPEC: stain3a 10-FEB-95 DERIVED SPECTRUM 9
Samp: BLOOD STAIN 3,45MIN H2O EXT.MC-FILTER Start : 16:21:34 102
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8 Inten : 91227
Norm: 159.8 RIC : 192993
Peak: 1000.00 mmu
Data: +/43>53 - /27>36,56>74

Inlet :
Masses: 128 > 296
#peaks: 171

b6 -1
b7C -1



FBI(24-cv-1564)-3296

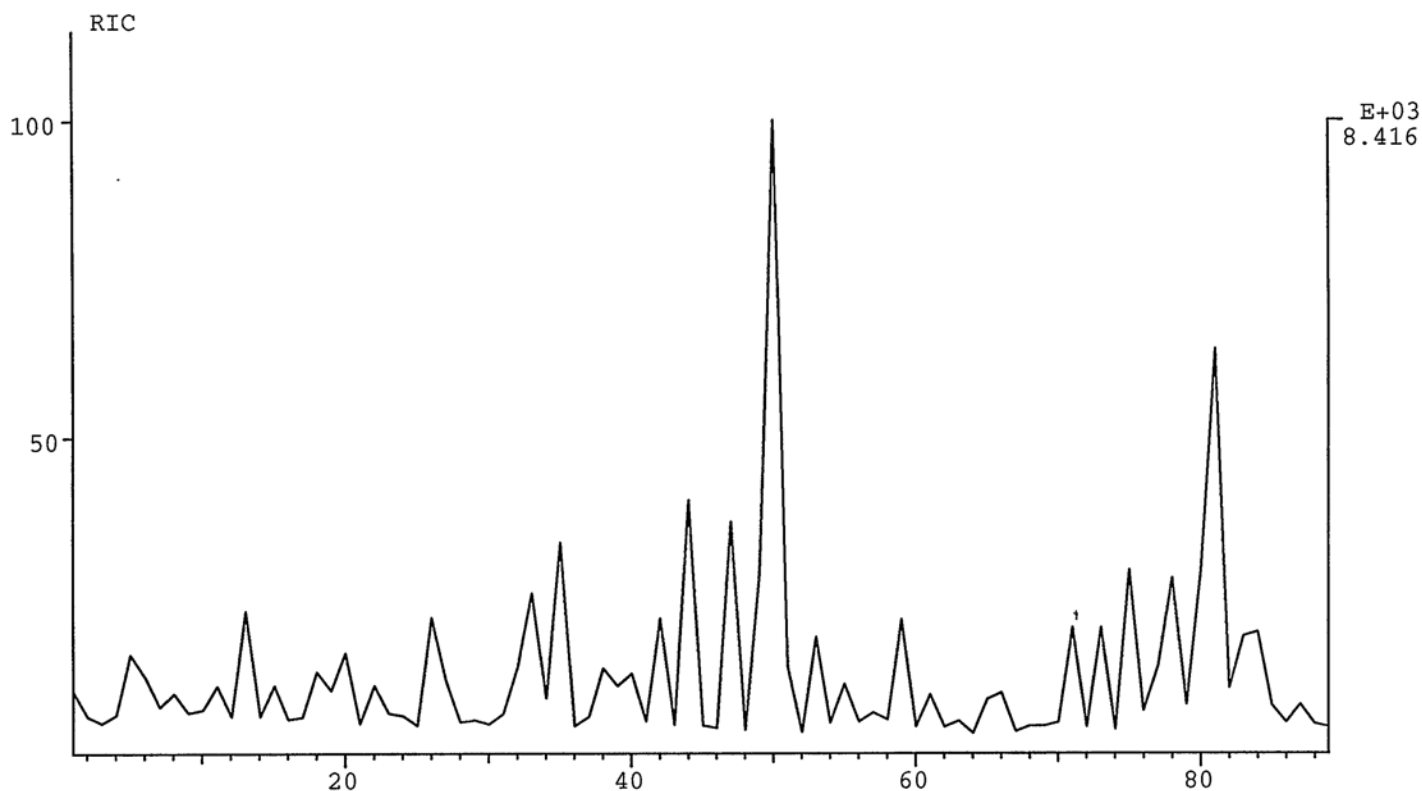
CHRO: stain3b
Samp: BLOOD STAIN 3, 2ND H2O EXT.MC-FILTER
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 89
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

13-FEB-95

Elapse: 00:00:57.1 53
Start : 13:16:44 89

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3297

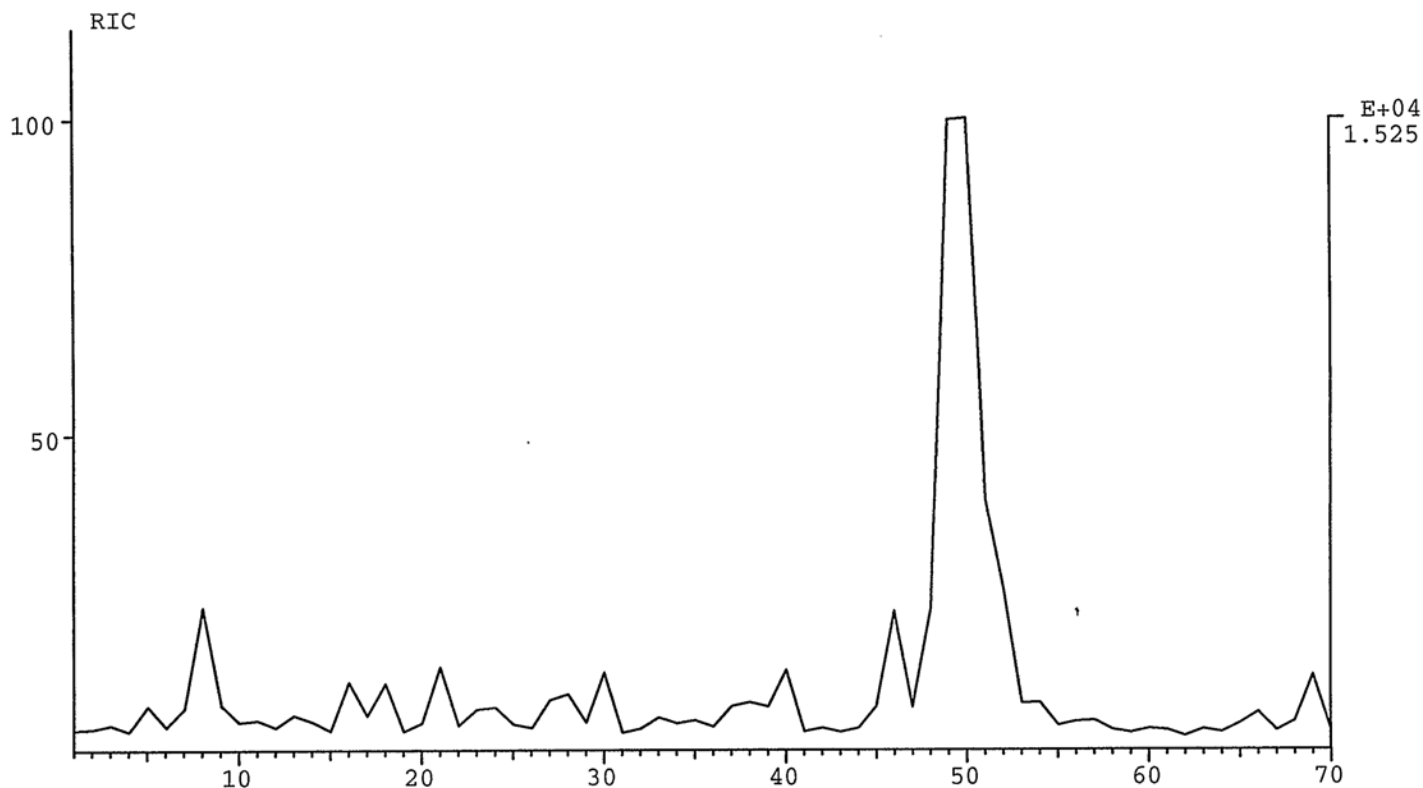
CHRO: stain3c
Samp: BLOOD STAIN 3, 2ND H2O EXT.MC-FILTER
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 70
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

13-FEB-95

Elapse: 00:00:57.4 53
Start : 13:19:23 70

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3298

SPEC: stain3c
Samp: BLOOD STAIN 3, 2ND H2O EXT.MC-FILTER
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/48>53 - /33>43,55>66

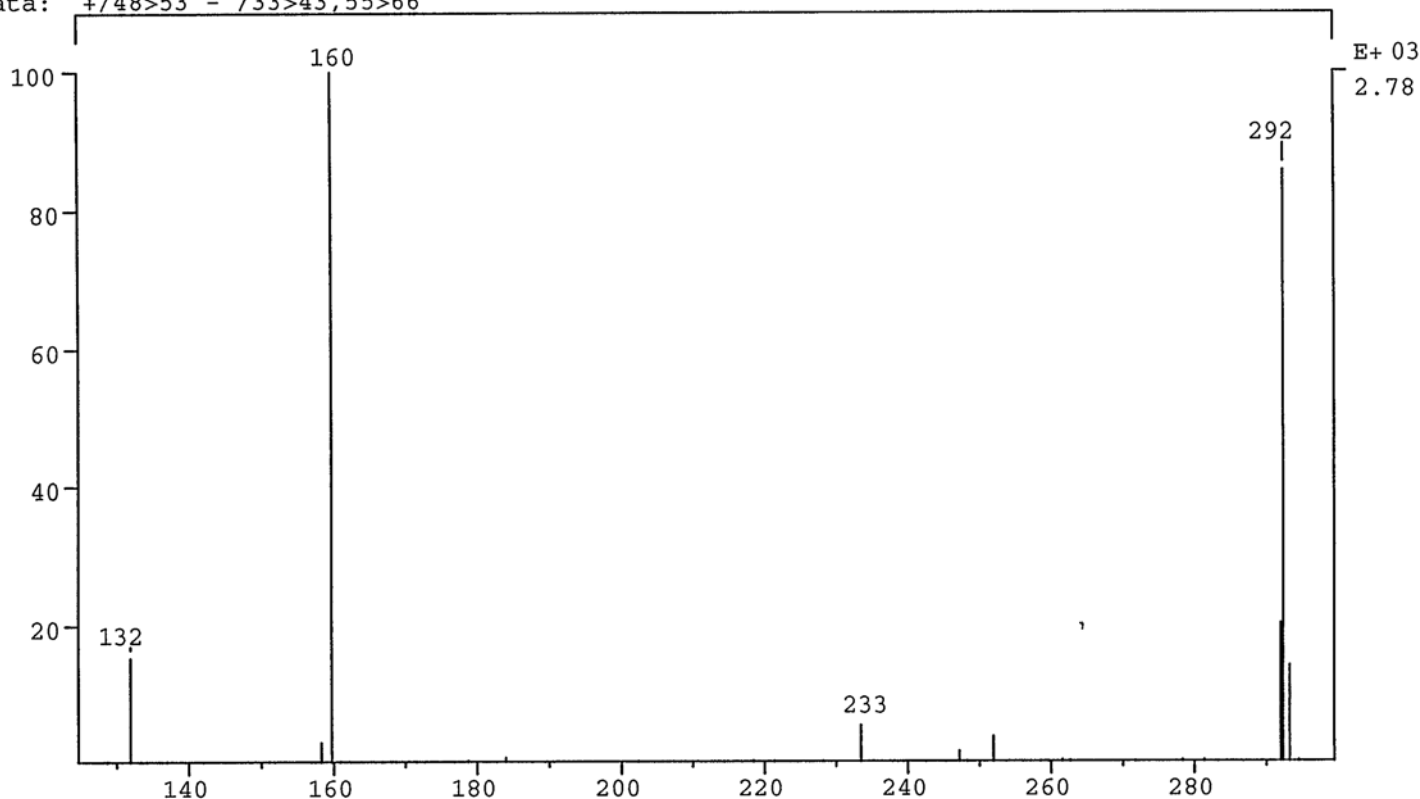
13-FEB-95

DERIVED SPECTRUM
Start : 13:19:23

9
70

Inlet :
Masses: 128 > 296
#peaks: 128

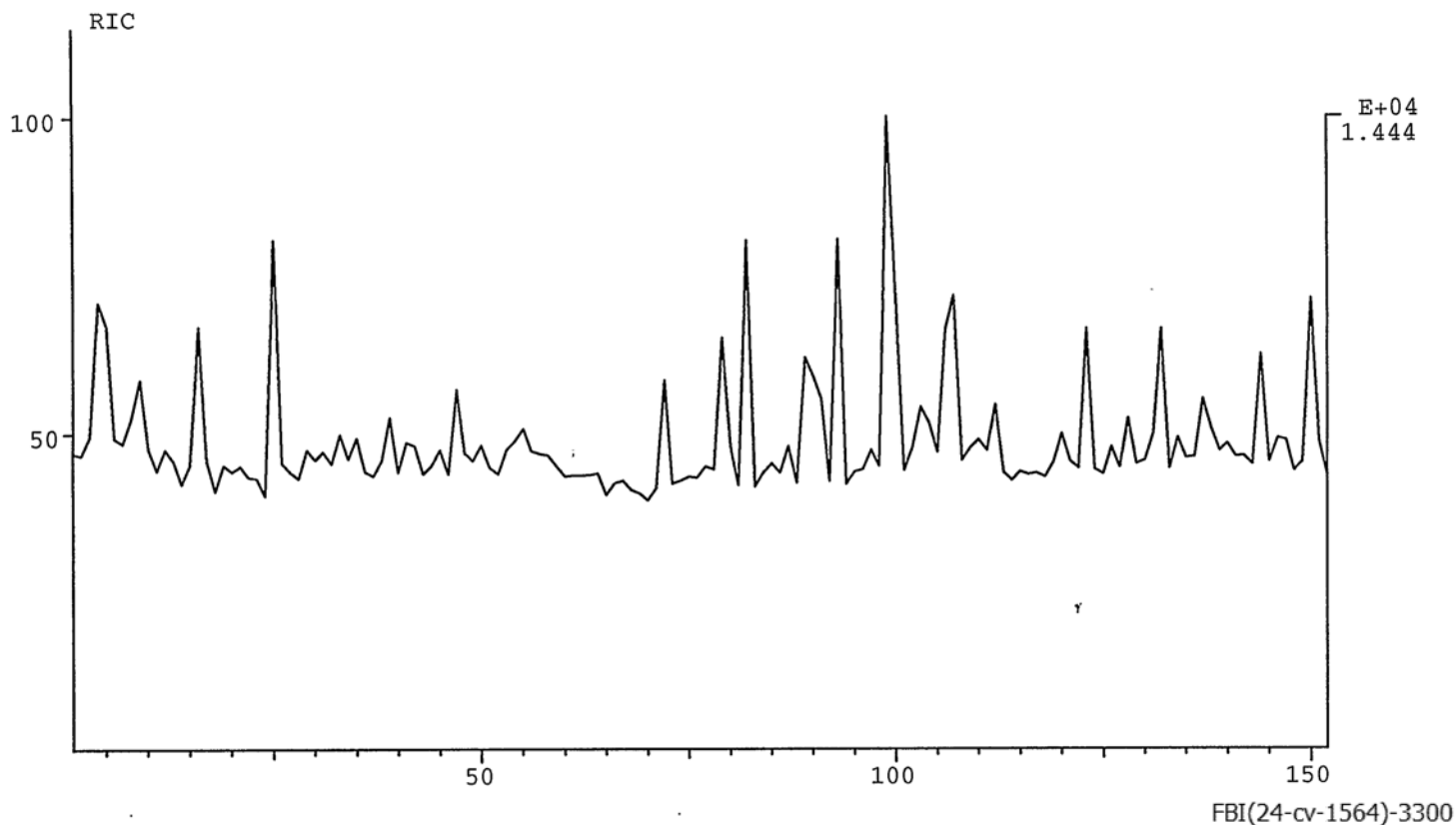
b6 -1
b7c -1



FBI(24-cv-1564)-3299

CHRO: stain4 08-FEB-95 Elapse: 00:00:37.6 66
Samp: BLOOD STAIN 4 DRIED/DILUTED, BM'S EXTR. Start : 17:01:05 152
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 152 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7c -1



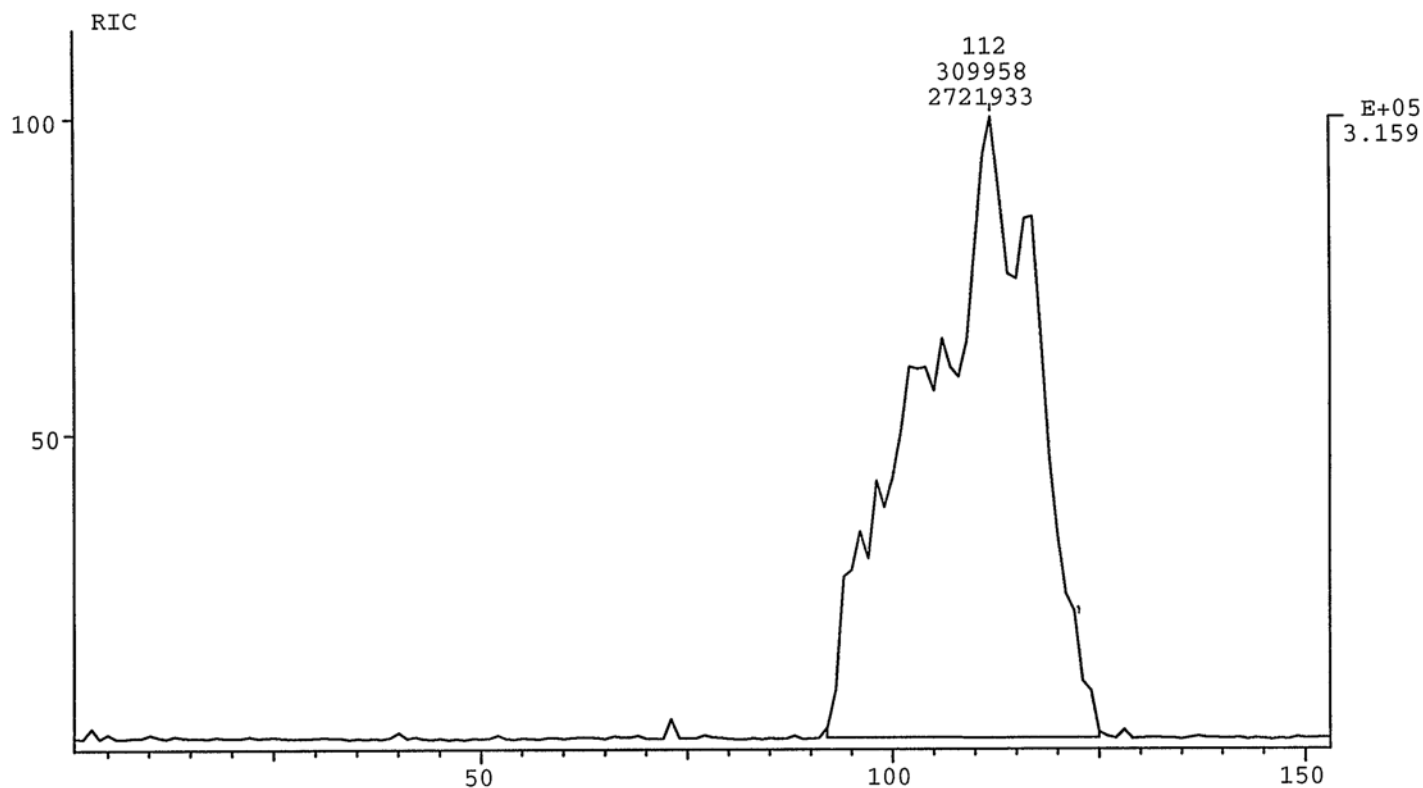
CHRO: stain40
Samp: BLOOD STAIN 40 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 153
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95

Elapse: 00:01:22.1 150
Start : 14:14:49 153

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3301

SPEC: stain40
Samp: BLOOD STAIN 40 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/94>123 - /81>90,129>150

09-FEB-95

DERIVED SPECTRUM

9

Start : 14:14:49

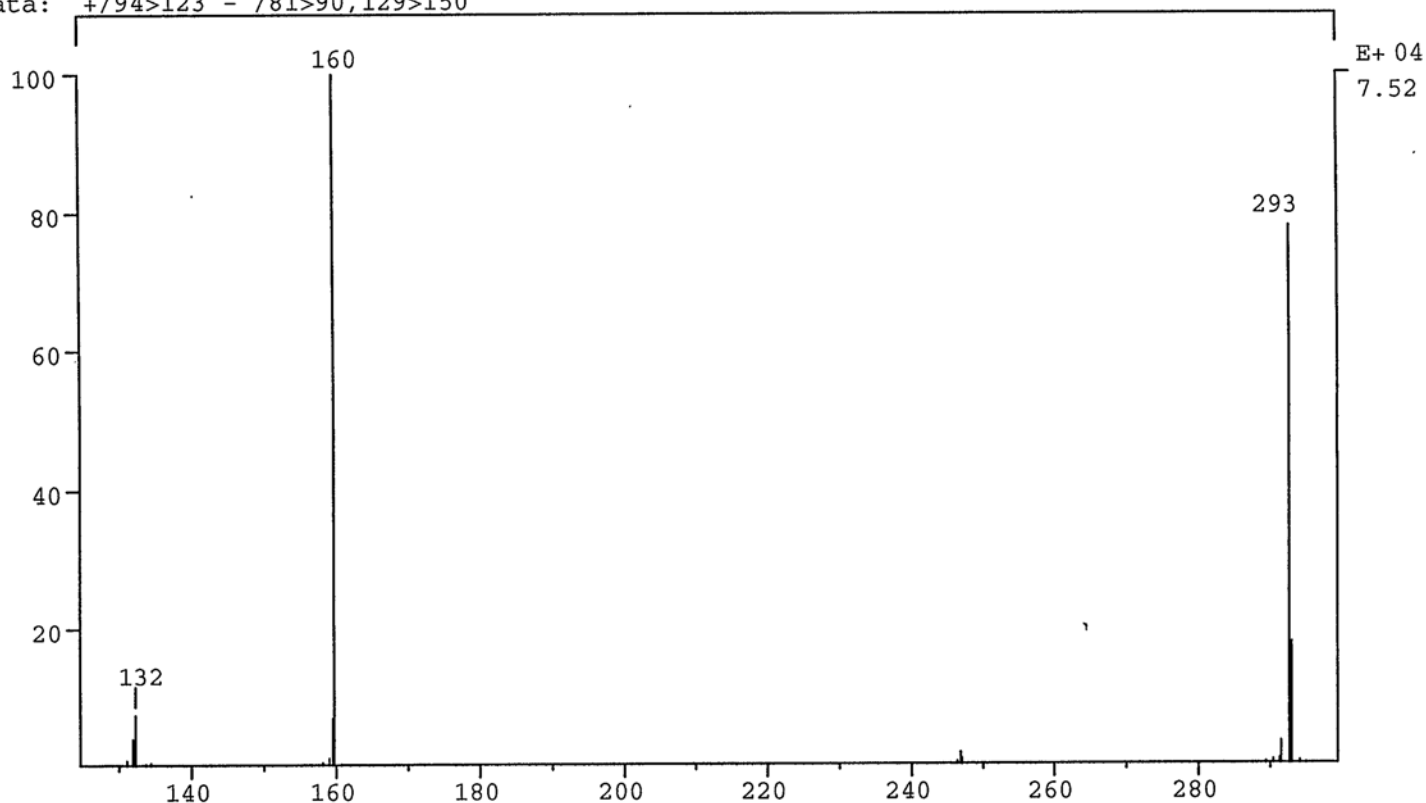
153

Inlet :

Masses: 128 > 296

#peaks: 146

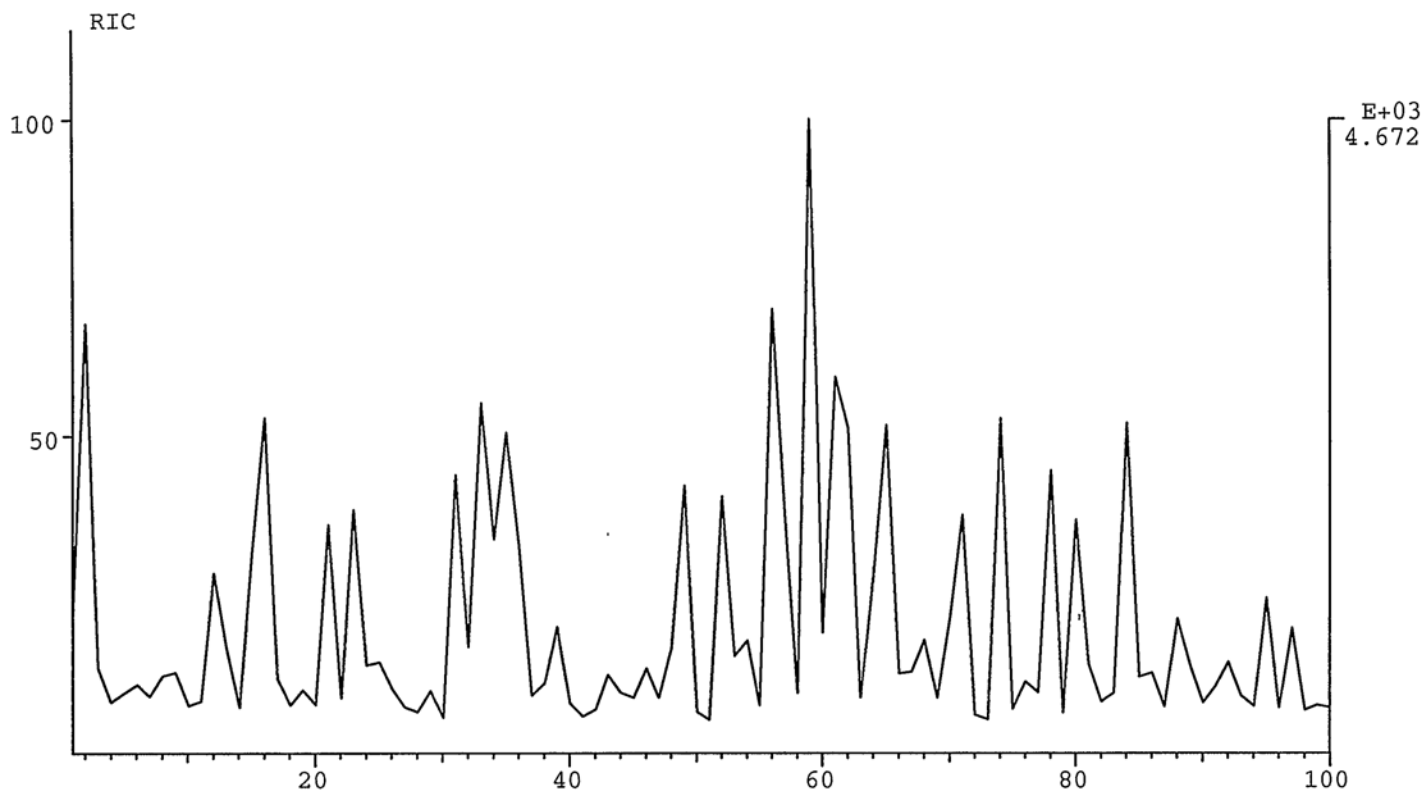
b6 -1
b7c -1



FBI(24-cv-1564)-3302

CHRO: stain41 10-FEB-95 Elapse: 00:02:38.1 150
Samp: BLOOD STAIN 28,1HR H2O EXT.MC-FILTER Start : 14:04:54 100
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 100 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

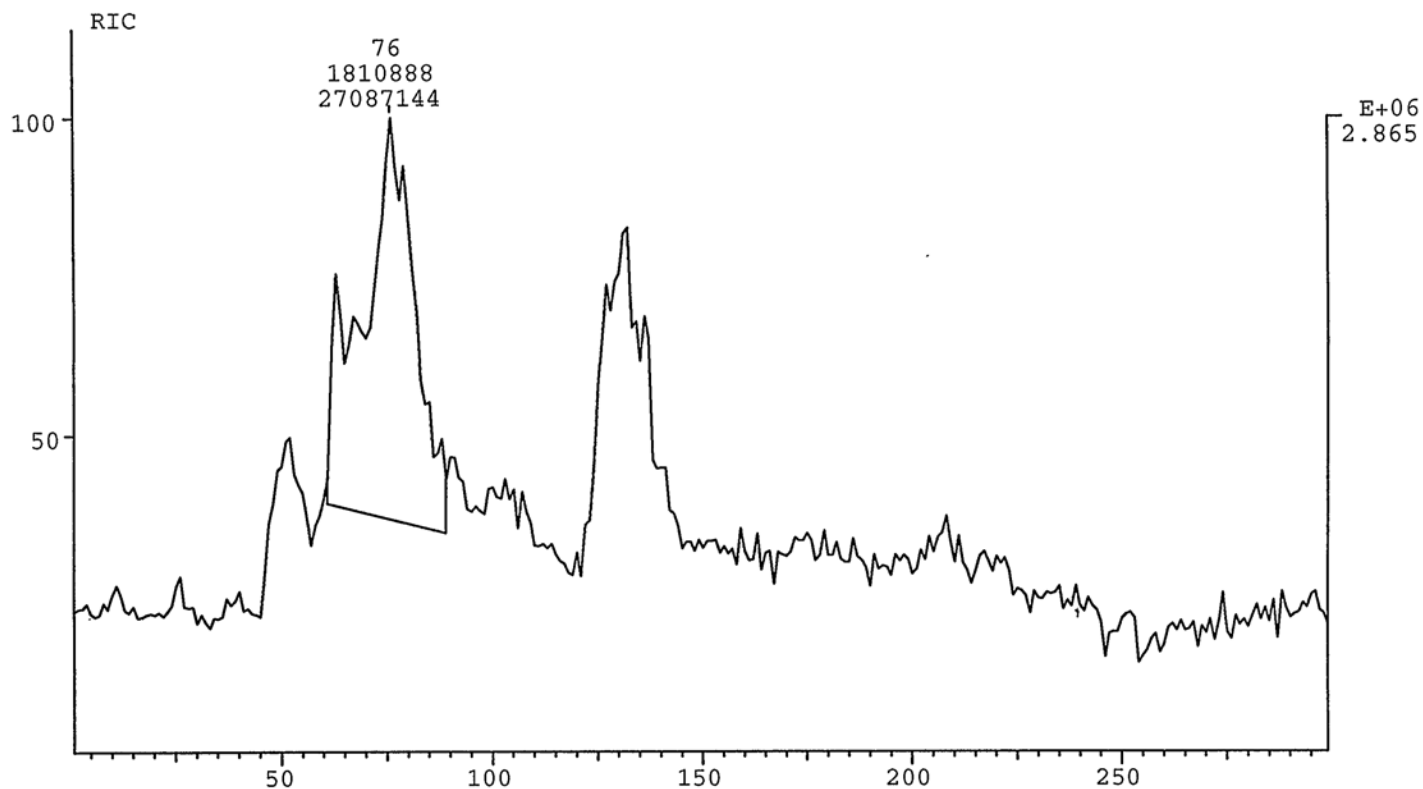
b6 -1
b7c -1



FBI(24-cv-1564)-3303

CHRO: stain41a 10-FEB-95 Elapse: 00:04:04.6 234
Samp: BLOOD STAIN 41,1HR H2O EXT.MC-FILTER Start : 13:33:25 299
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 299 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 85 > 350
Disp: Height Area Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3304

SPEC: stain41a
Samp: BLOOD STAIN 41,1HR H2O EXT.MC-FILTER
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +Q1MS LMR UP LR
Oper:
Base: 173.0 Inten : 116880
Norm: 173.0 RIC : 785963
Peak: 1000.00 mmu
Data: +/46>145 - /14>40,153>234

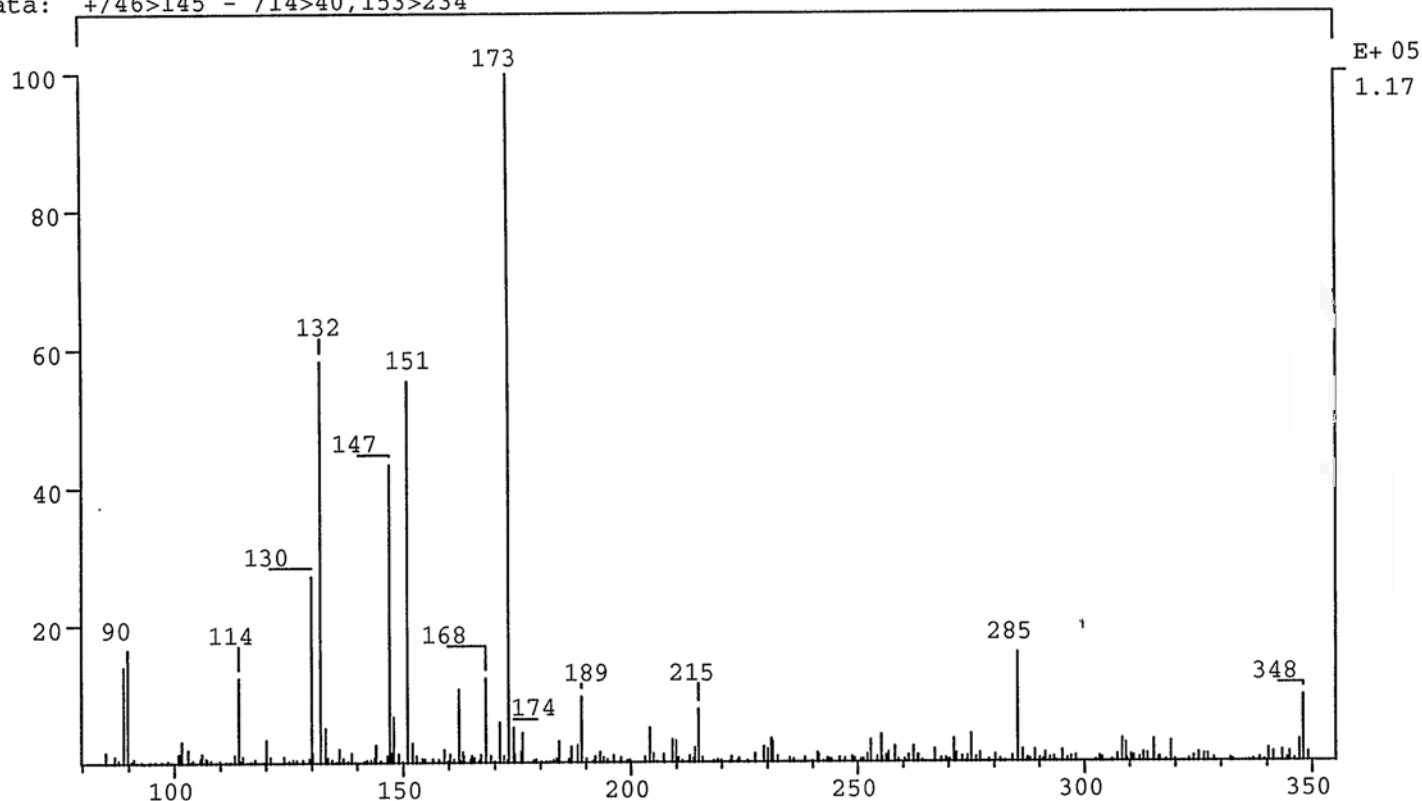
10-FEB-95

DERIVED SPECTRUM
Start : 13:33:25

9
299

Inlet :
Masses: 85 > 350
#peaks: 298

b6 -1
b7c -1



FBI(24-cv-1564)-3305

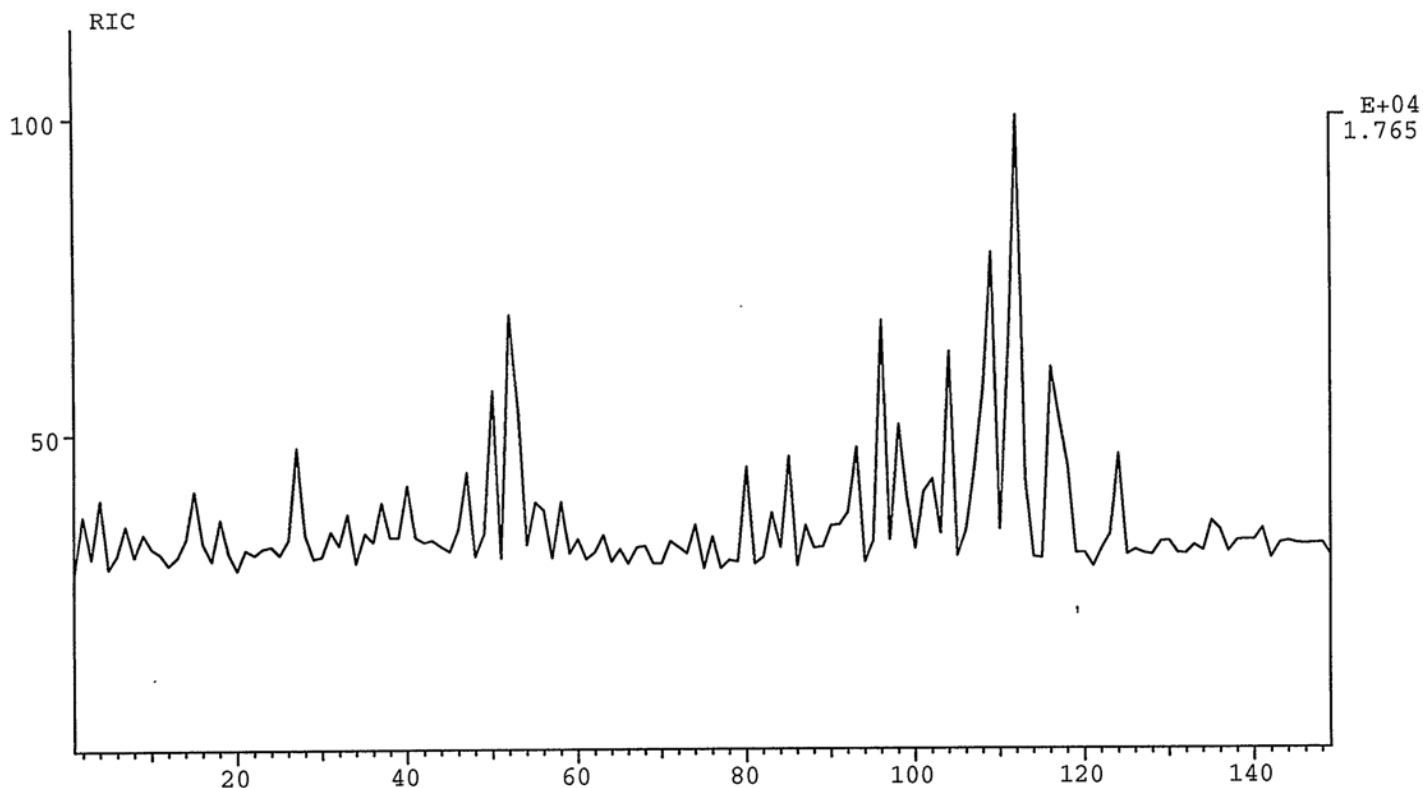
CHRO: stain42
Samp: BLOOD STAIN 42 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

09-FEB-95

Elapse: 00:02:07.2 234
Start : 14:18:55 149

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3306

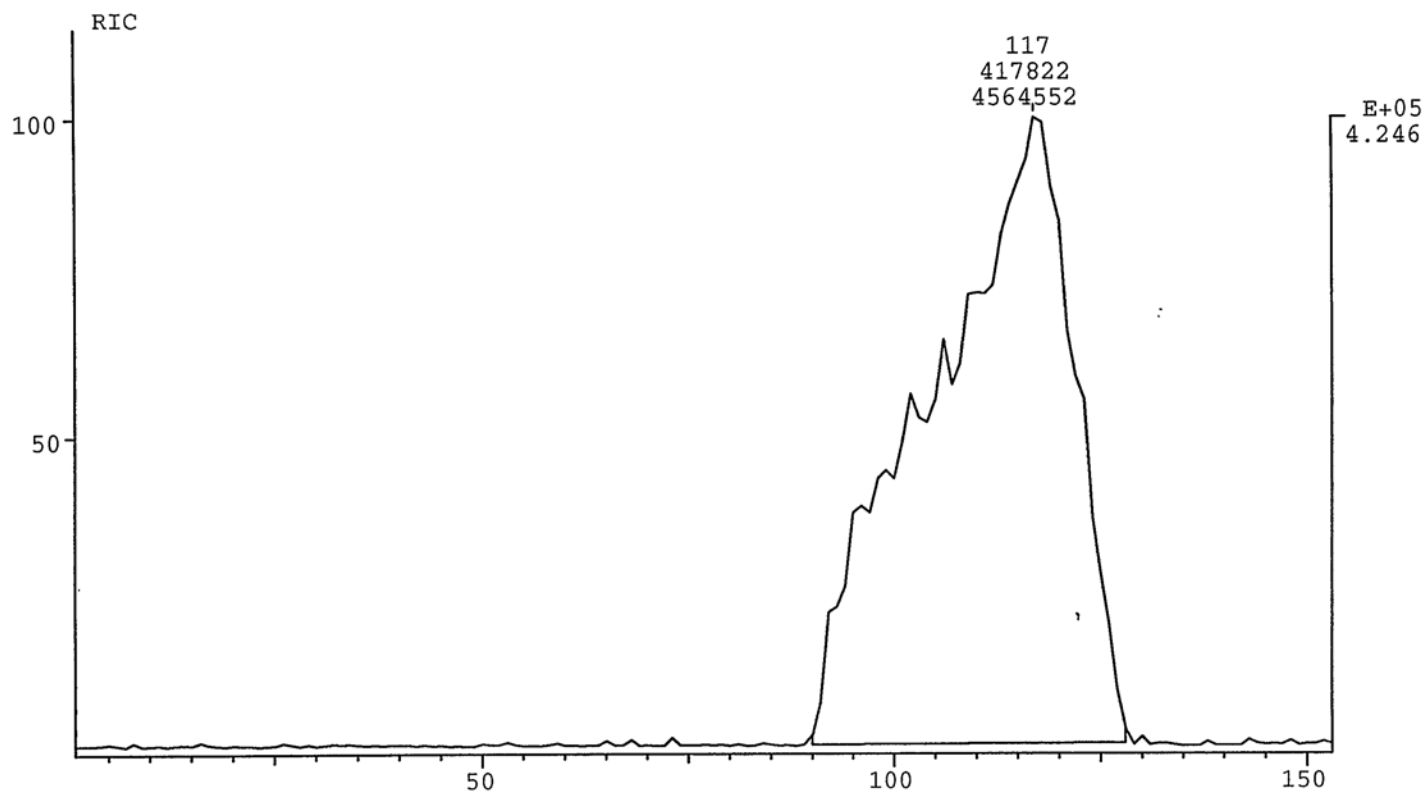
CHRO: stain43
Samp: BLOOD STAIN 43 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 153
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95

Elapse: 00:02:08.3 234
Start : 14:24:19 153

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3307

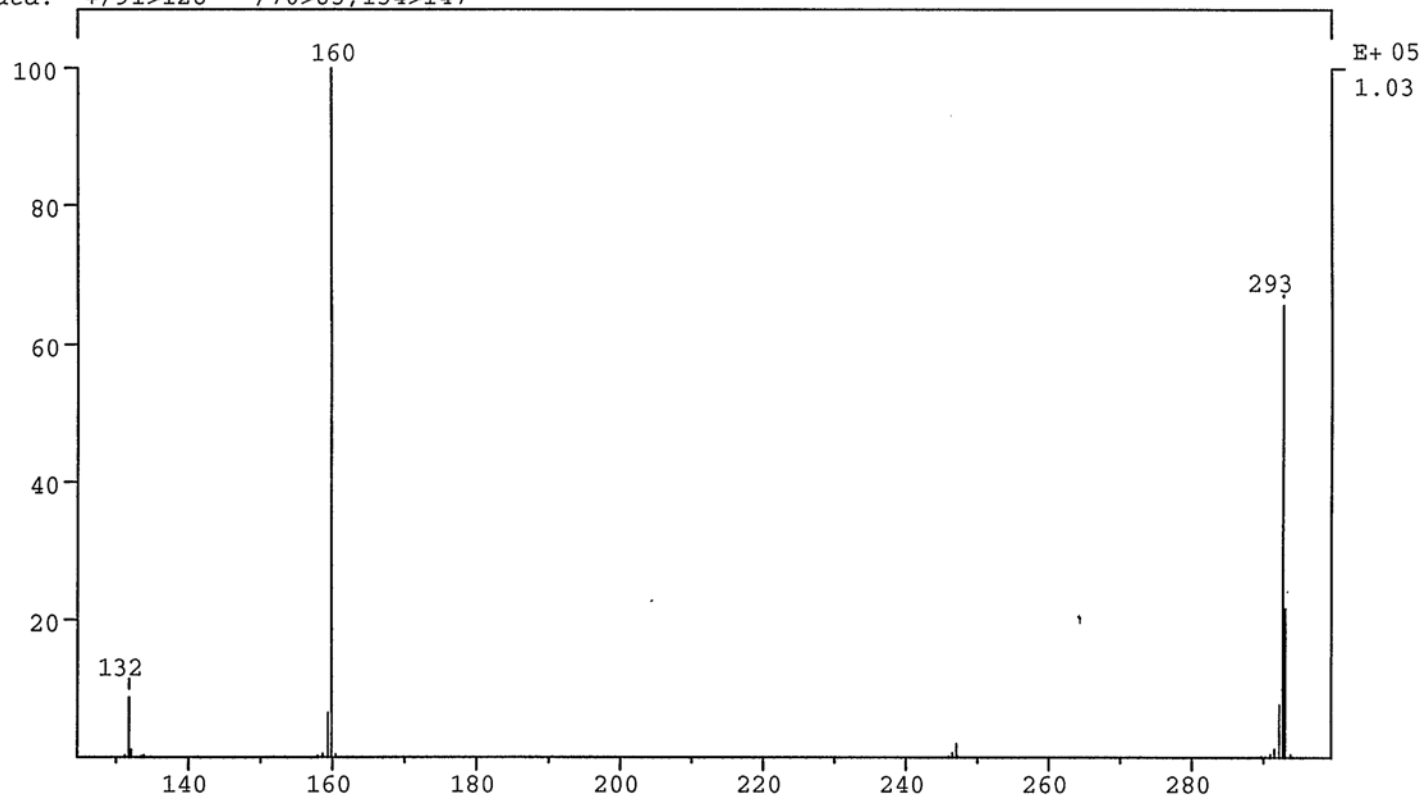
SPEC: stain43
Samp: BLOOD STAIN 43 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.9 Inten : 102796
Norm: 159.9 RIC : 226746
Peak: 1000.00 mmu
Data: +/91>128 - /70>85, 134>147

09-FEB-95

DERIVED SPECTRUM 9
Start : 14:24:19 153

Inlet :
Masses: 128 > 296
#peaks: 146

b6 -1
b7c -1



FBI(24-cv-1564)-3308

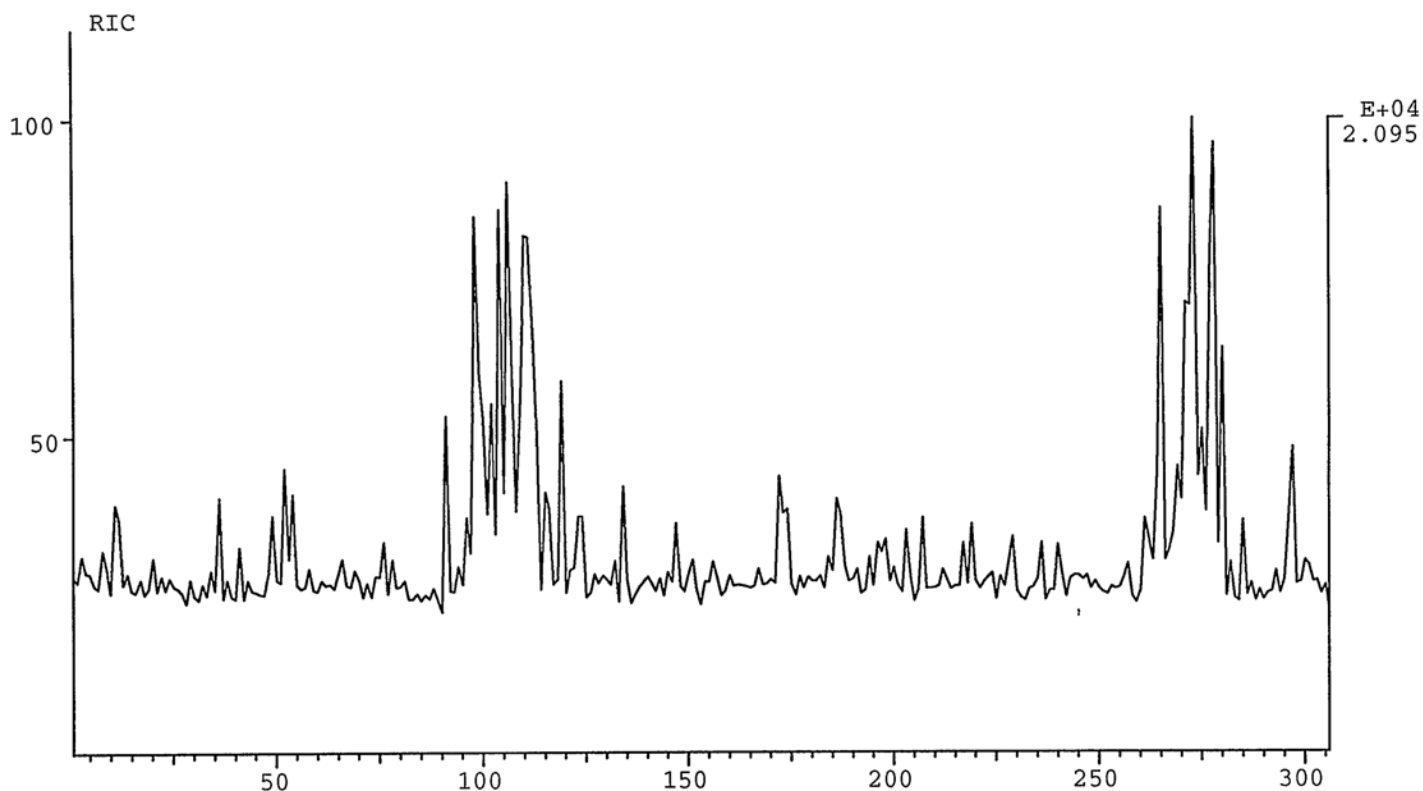
CHRO: stain44
Samp: BLOOD STAIN 44 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

09-FEB-95

Elapse: 00:01:33.7 171
Start : 14:28:53 306

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3309

SPEC: stain44
Samp: BLOOD STAIN 44 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 293.0 Inten : 1056
Norm: 293.0 RIC : 4294
Peak: 1000.00 mmu
Data: +/90>126 - /55>90,130>171

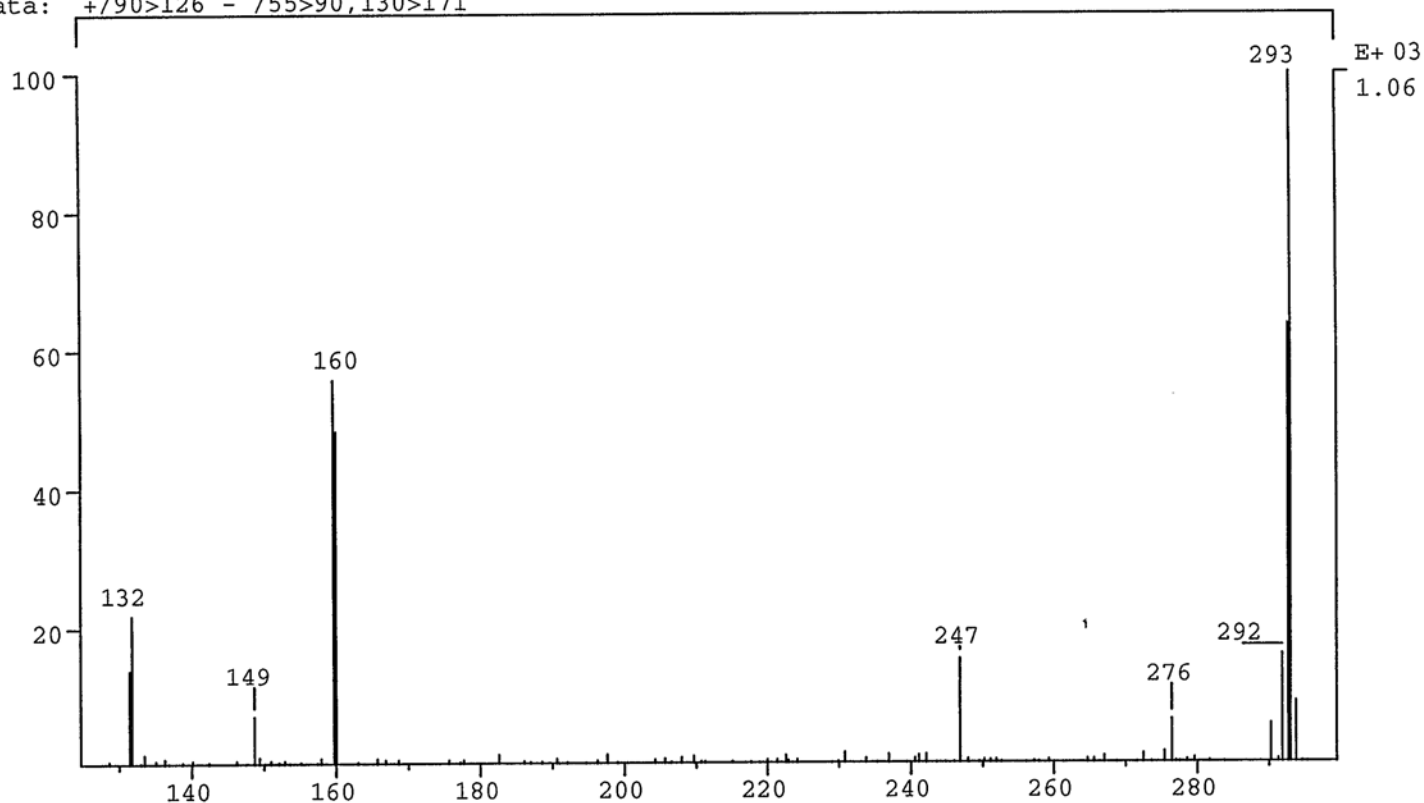
09-FEB-95

DERIVED SPECTRUM
Start : 14:28:53

9
306

Inlet :
Masses: 128 > 296
#peaks: 142

b6 -1
b7c -1

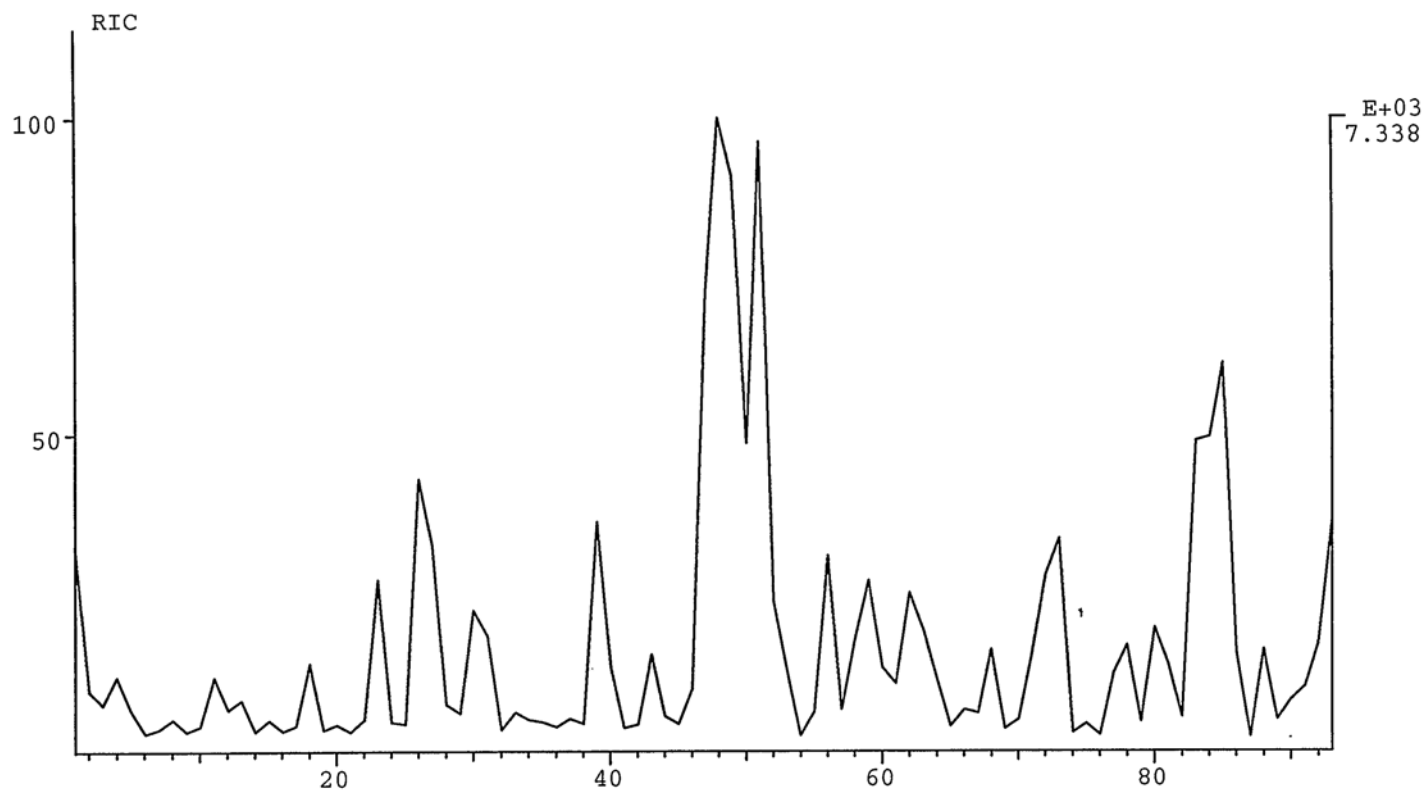


FBI(24-cv-1564)-3310

CHRO: stain4a 10-FEB-95 Elapse: 00:02:59.9 171
Samp: BLOOD STAIN 4,45MIN H2O EXT.MC-FILTER Start : 16:16:33 93
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 93
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

Inlet :
Masses: 128 > 296
Label : 15, 40.00

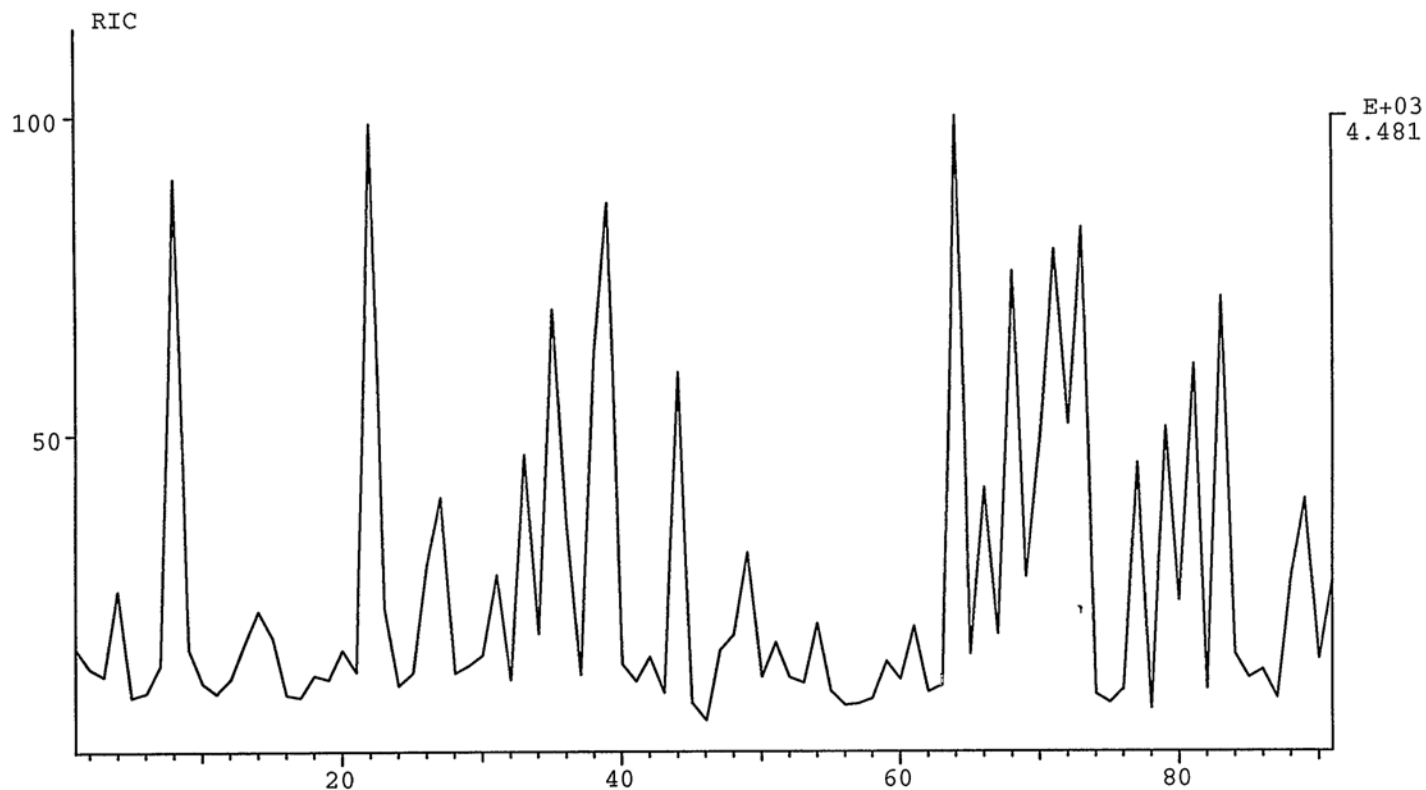
b6 -1
b7c -1



FBI(24-cv-1564)-3311

CHRO: stain4b 13-FEB-95 Elapse: 00:02:59.9 171
Samp: BLOOD STAIN 4, 2ND H2O EXT.MC-FILTER Start : 13:13:57 91
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 91 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3312

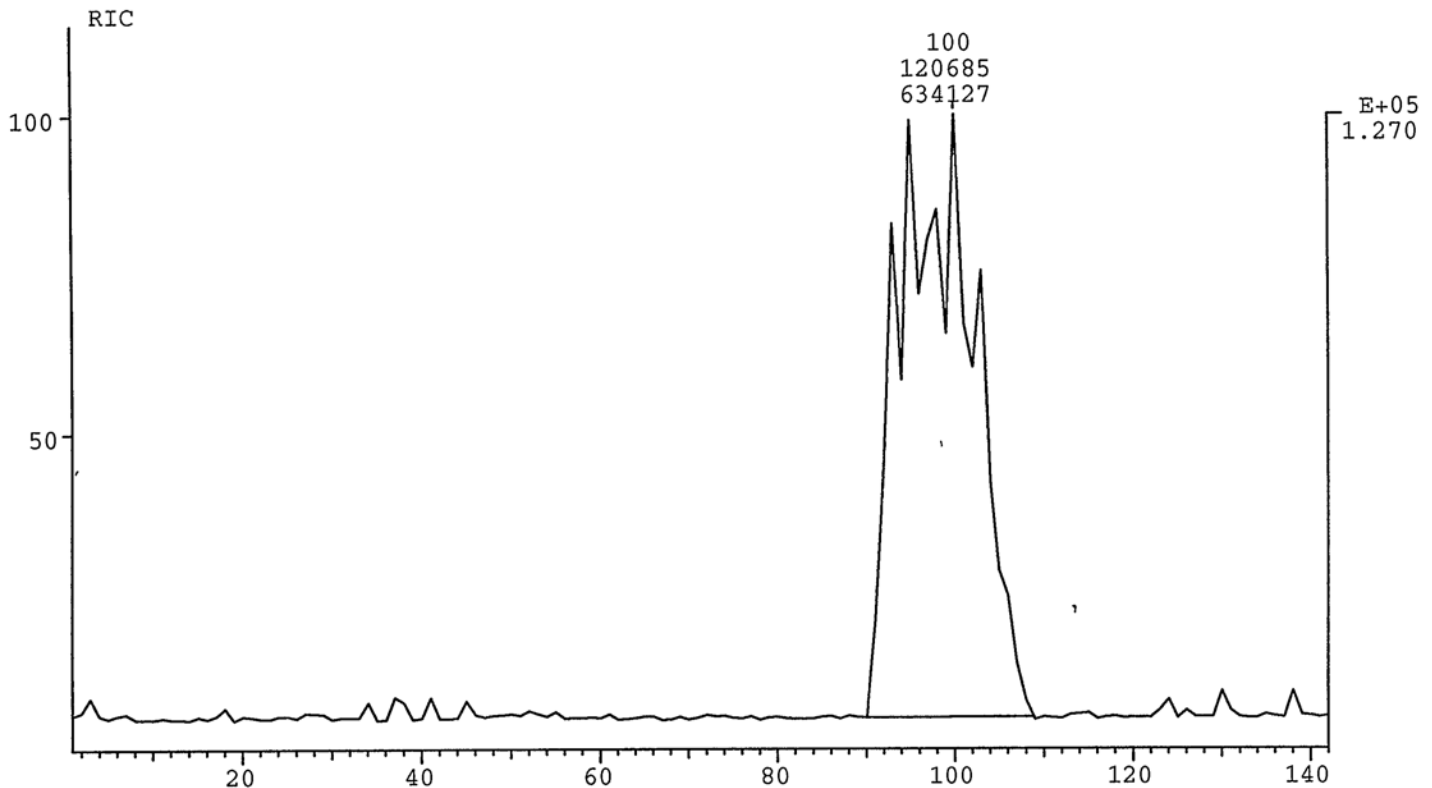
CHRO: stain5
Samp: BLOOD STAIN 5 DRIED/DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 142
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

08-FEB-95

Elapse: 00:01:12.5 132
Start : 17:06:09 142

Inlet :
Masses: 128 > 296
Label : 15, 40.00

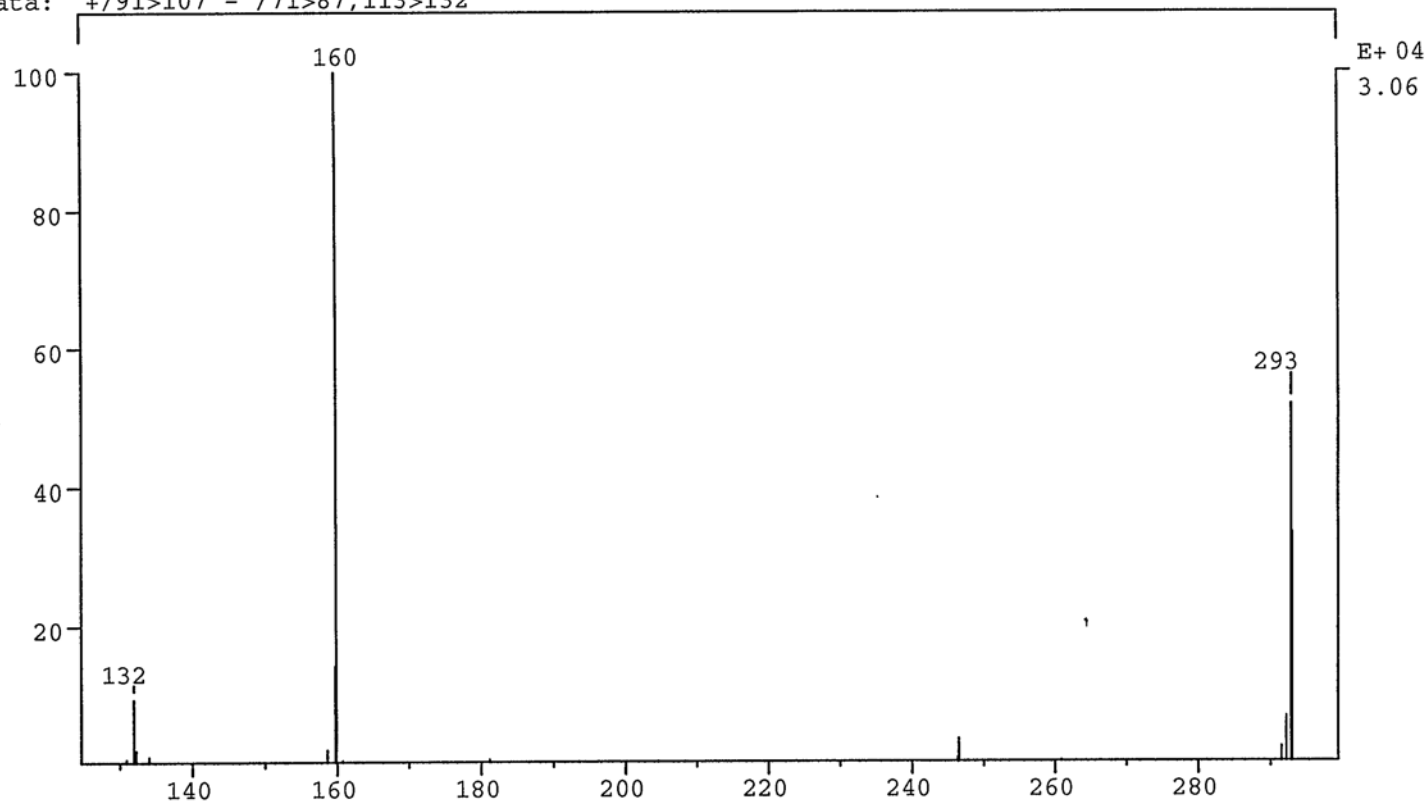
b6 -1
b7c -1



FBI(24-cv-1564)-3313

SPEC: stain5 08-FEB-95 DERIVED SPECTRUM 9
Samp: BLOOD STAIN 5 DRIED/DILUTED, BM'S EXTR. Start : 17:06:09 142
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8 Inten : 30558 Inlet :
Norm: 159.8 RIC : 70789 Masses: 128 > 296
Peak: 1000.00 mmu #peaks: 131
Data: +/91>107 - /71>87, 113>132

b6 -1
b7c -1



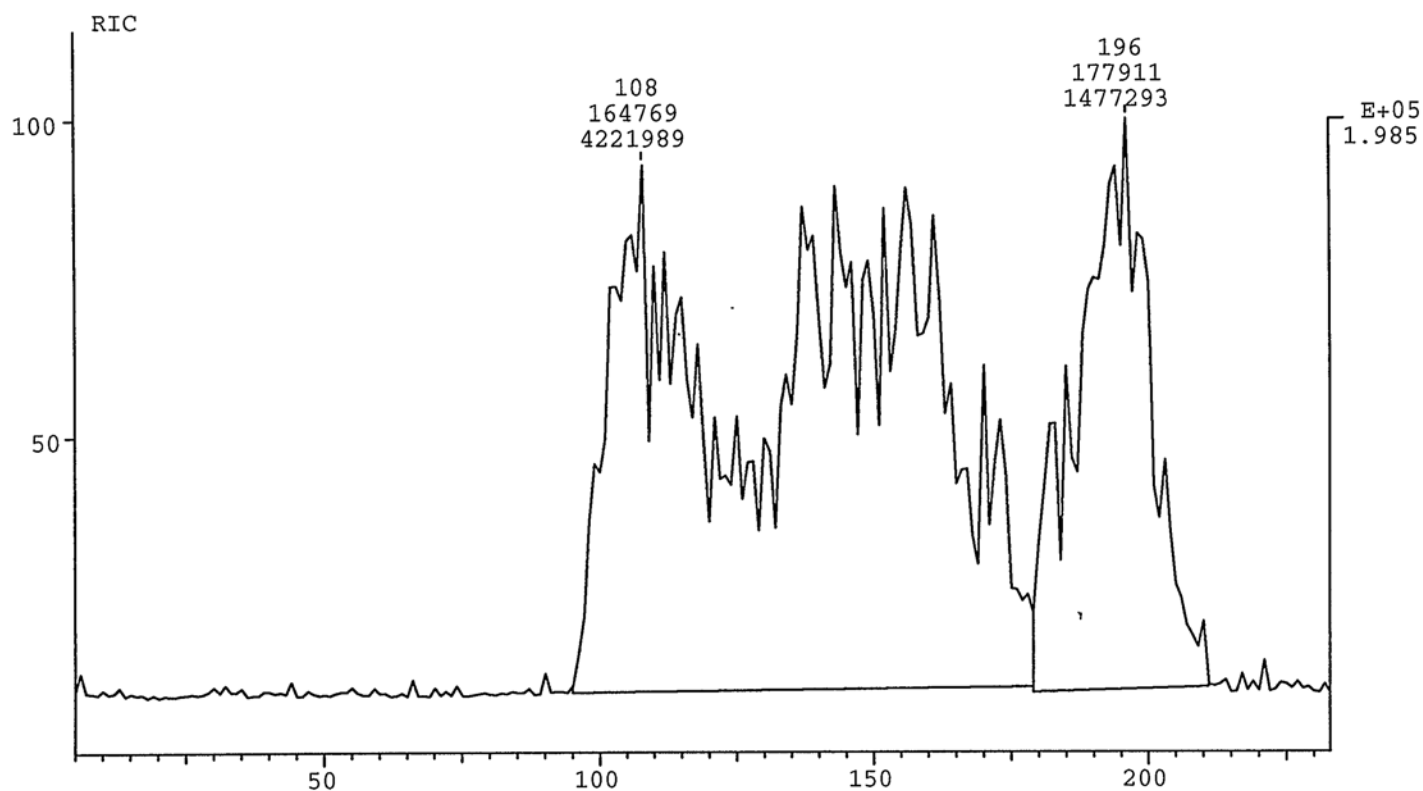
FBI(24-cv-1564)-3314

CHRO: stain6
Samp: BLOOD STAIN 6, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 5 > 233
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

07-FEB-95 Elapse: 00:02:05.6 230
Start : 13:30:00 251

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3315

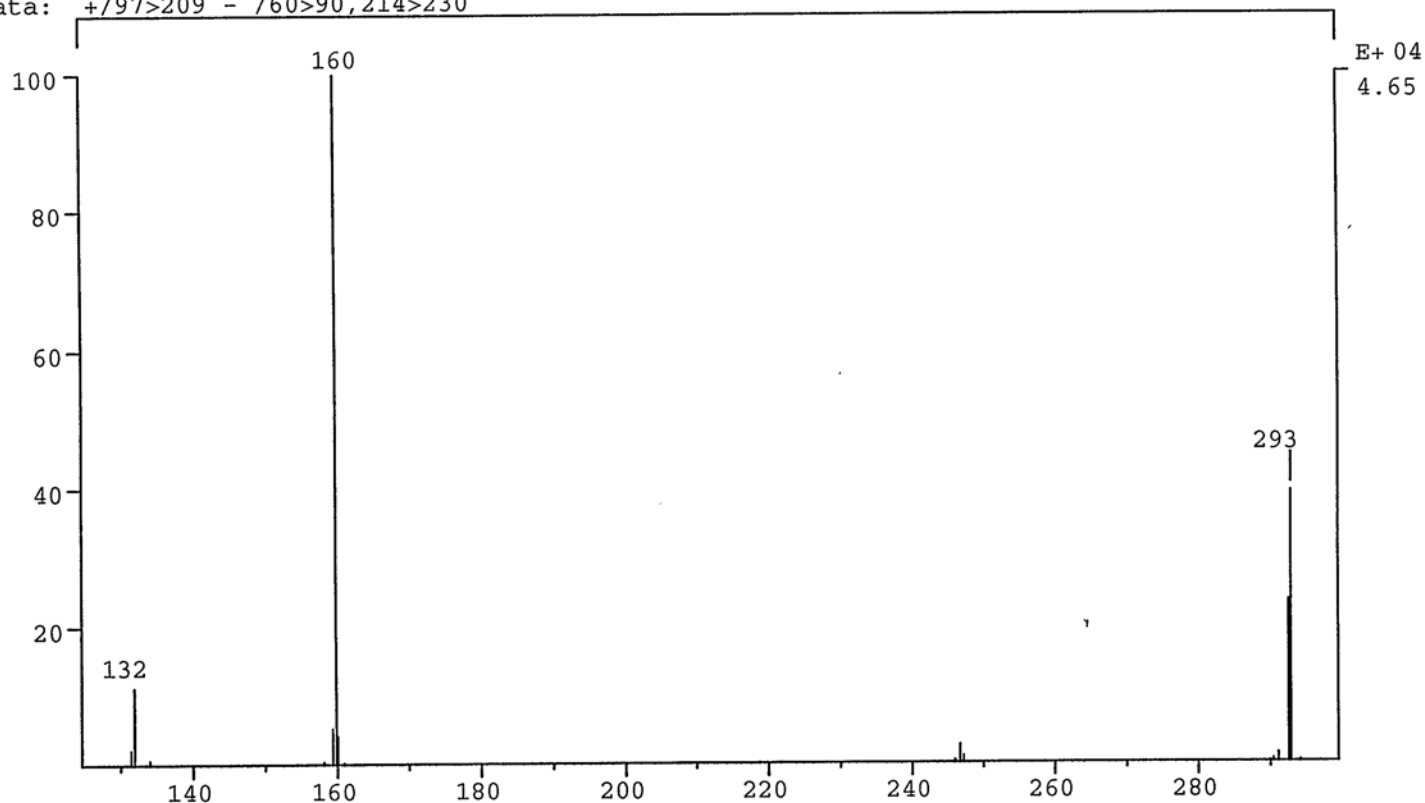
SPEC: stain6
Samp: BLOOD STAIN 6, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/97>209 - /60>90,214>230

07-FEB-95

DERIVED SPECTRUM 9
Start : 13:30:00 251

Inlet :
Masses: 128 > 296
#peaks: 149

b6 -1
b7c -1



FBI(24-cv-1564)-3316

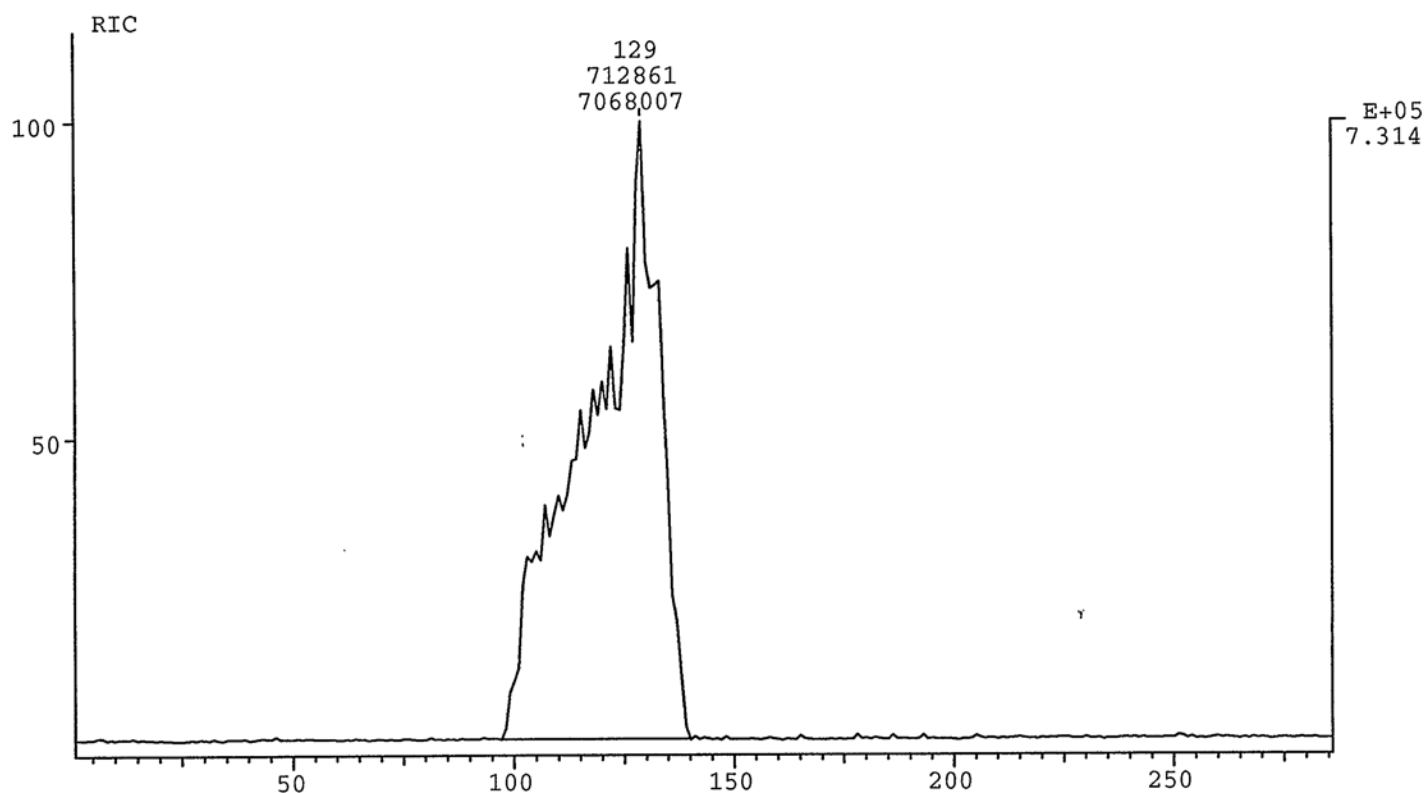
CHRO: stain7
Samp: BLOOD STAIN 7 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 286
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

07-FEB-95

Elapse: 00:01:45.1 194
Start : 14:04:23 286

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3317

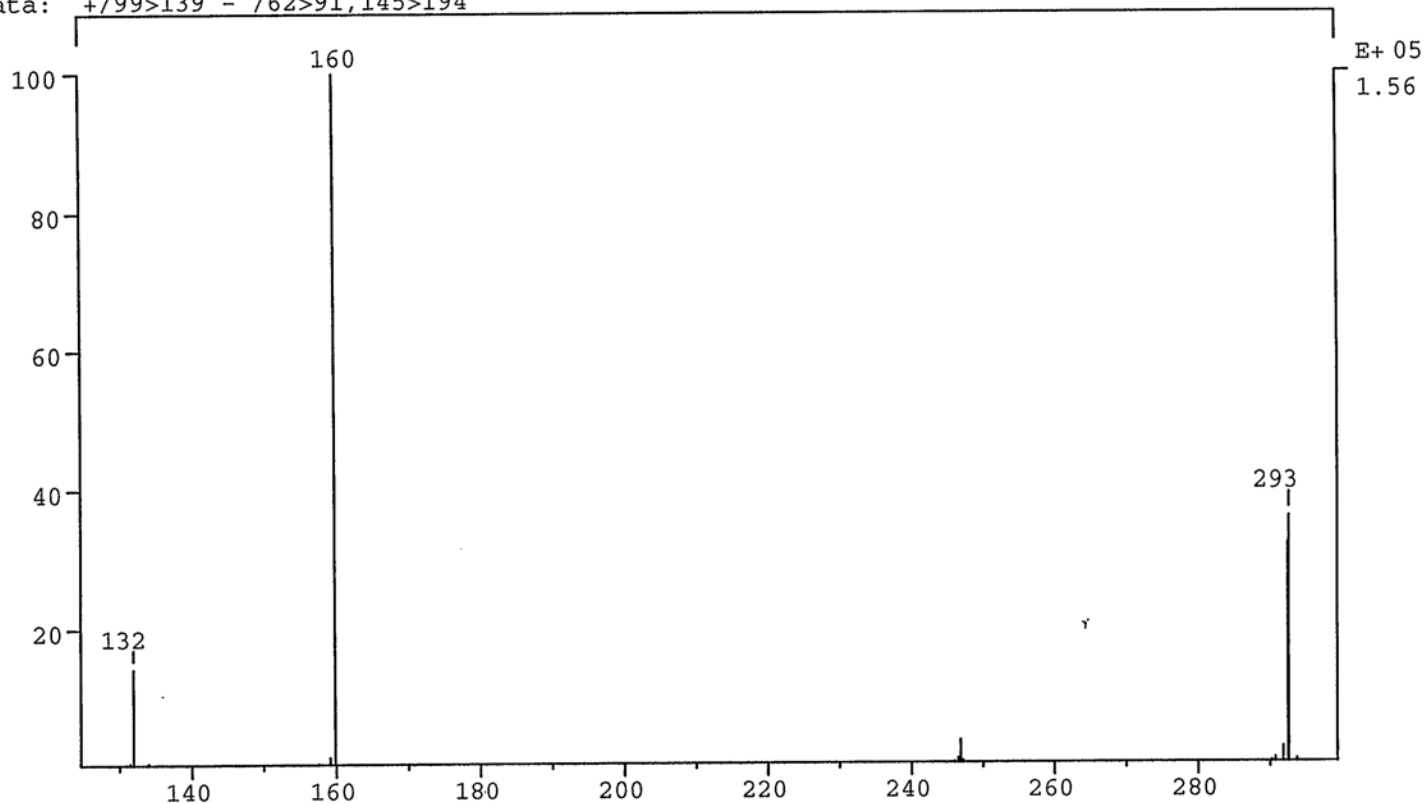
SPEC: stain7
Samp: BLOOD STAIN 7 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/99>139 - /62>91, 145>194

07-FEB-95

DERIVED SPECTRUM 9
Start : 14:04:23 286

Inlet :
Masses: 128 > 296
#peaks: 138

b6 -1
b7c -1



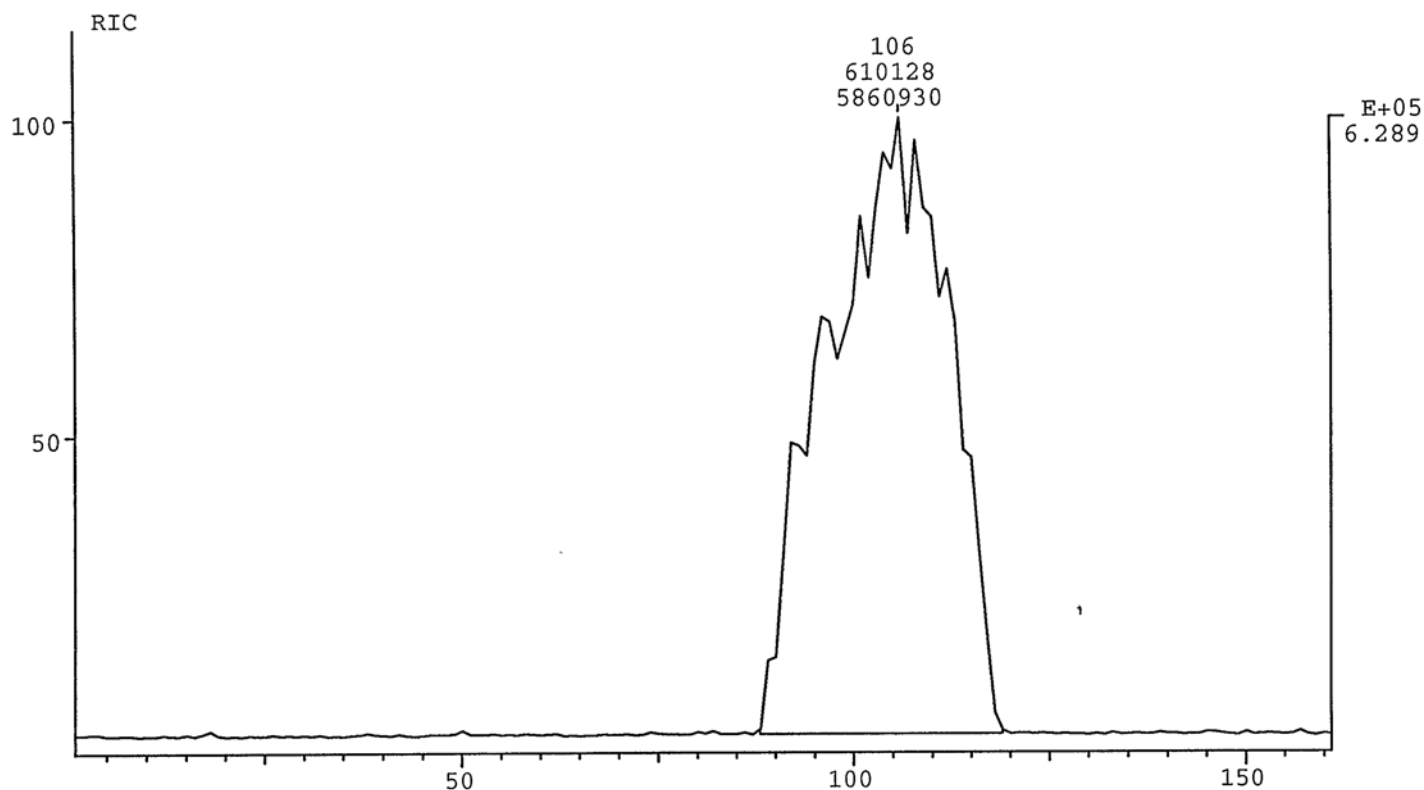
FBI(24-cv-1564)-3318

CHRO: stain8
Samp: BLOOD STAIN 8 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 161
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

07-FEB-95 Elapse: 00:01:20.1 147
Start : 14:21:53 161

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3319

SPEC: stain8
Samp: BLOOD STAIN 8 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/88>117 - /64>82, 123>147

07-FEB-95

DERIVED SPECTRUM

9

Start : 14:21:53

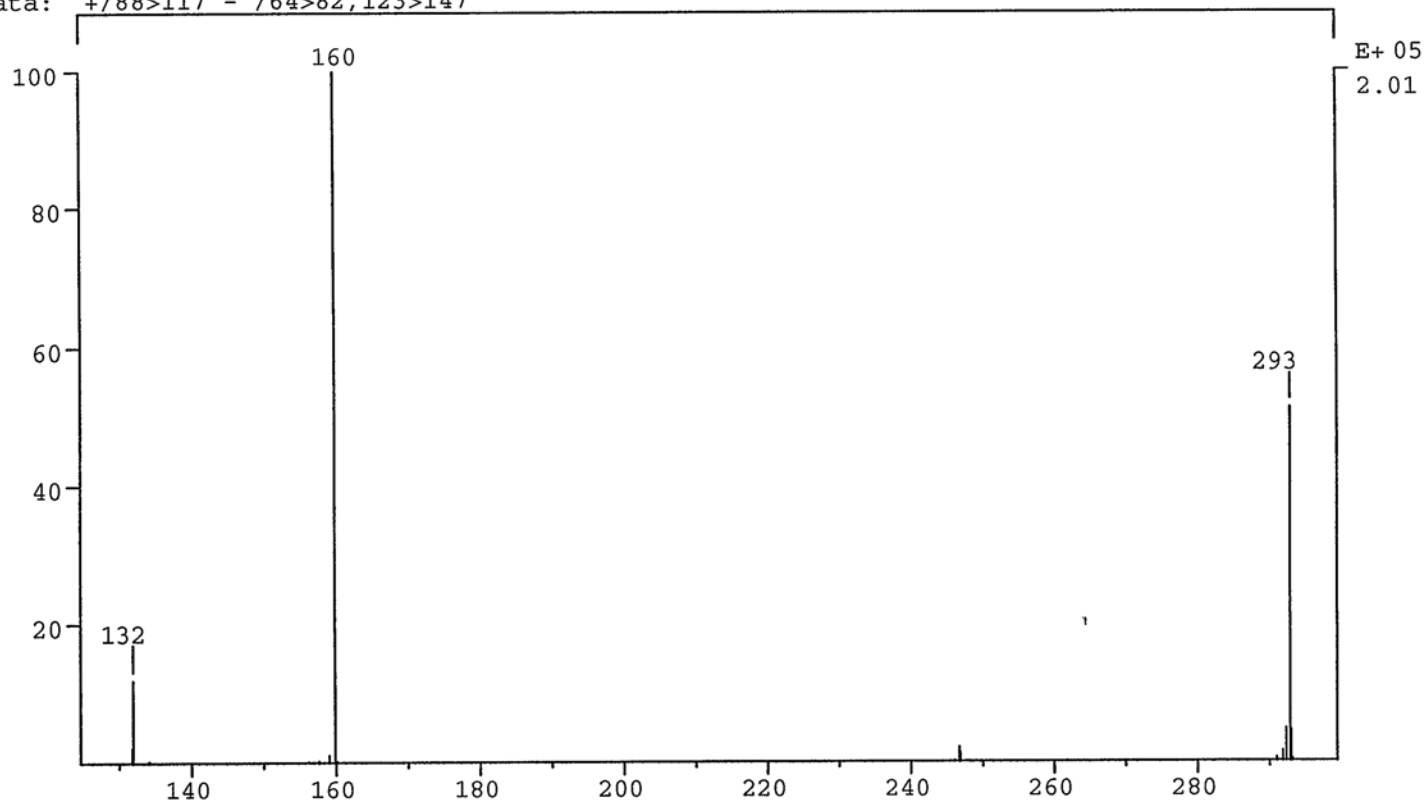
161

Inlet :

Masses: 128 > 296

#peaks: 137

b6 -1
b7c -1



FBI(24-cv-1564)-3320

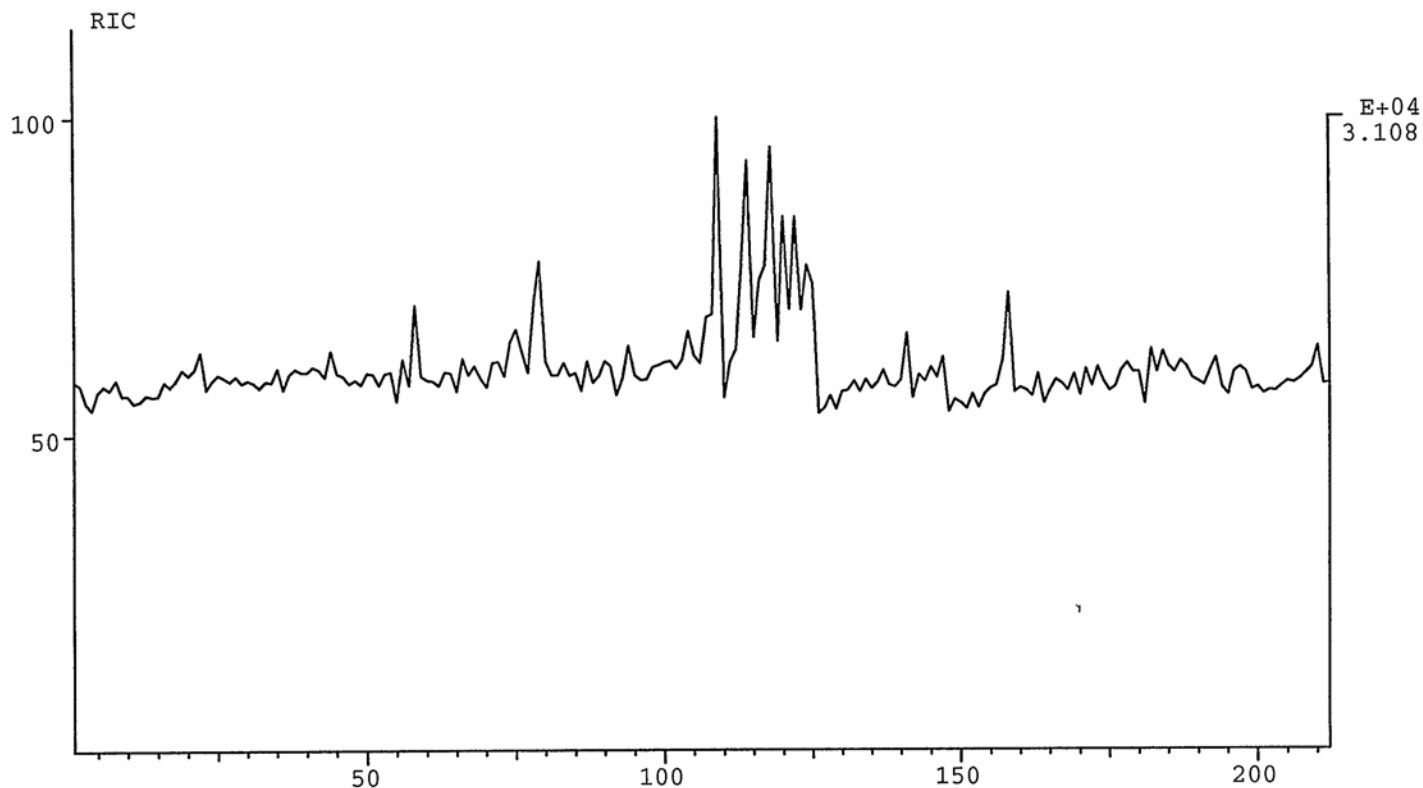
CHRO: stain9
Samp: BLOOD STAIN 9 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 212
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

07-FEB-95

Elapse: 00:01:20.9 147
Start : 14:42:47 212

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3321

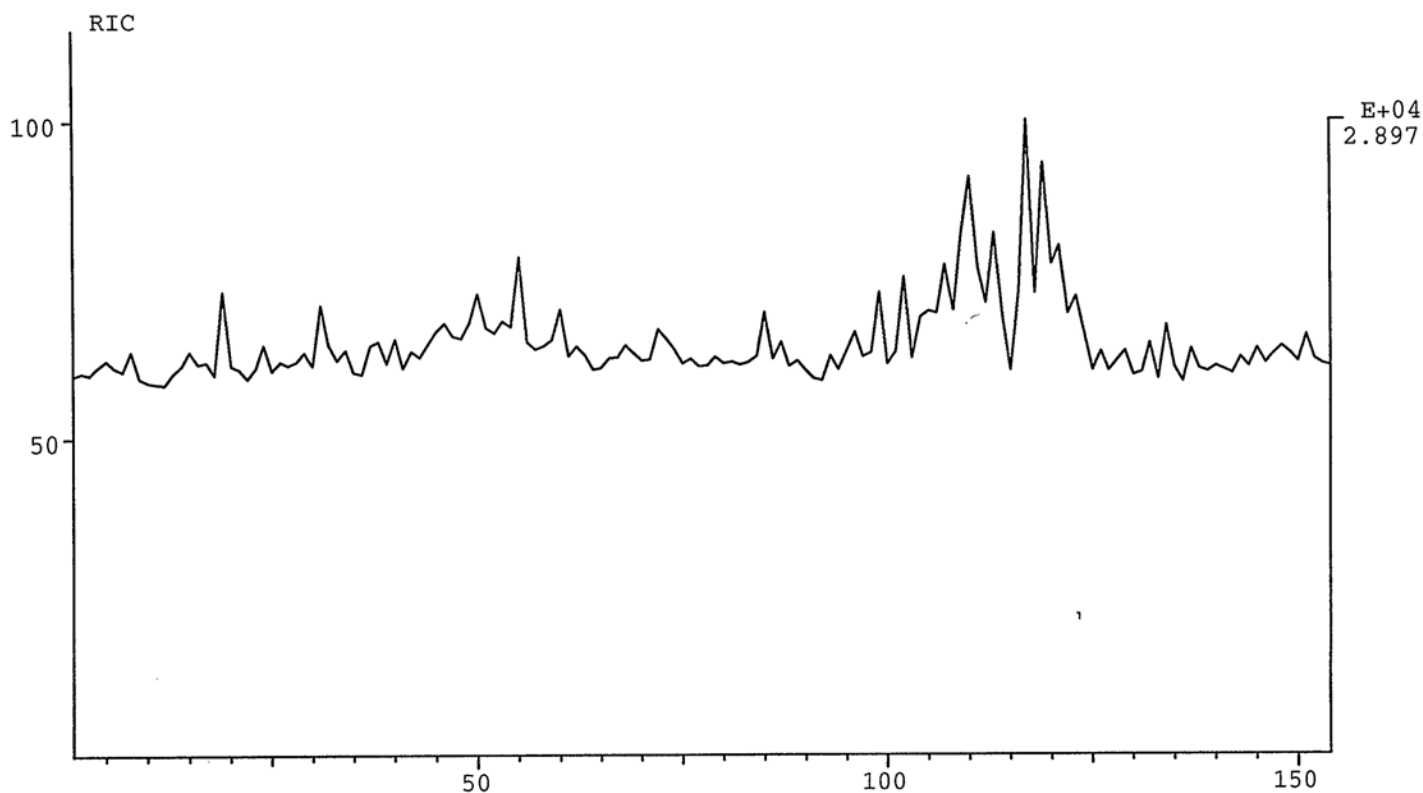
CHRO: stain9a
Samp: BLOOD STAIN 9 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 154
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

07-FEB-95

Elapse: 00:01:20.6 147
Start : 14:47:46 154

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3322

SPEC: edtal5
Samp: EDTA 10 NG IN 1 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 315.0
Norm: 315.0
Peak: 1000.00 mmu
Data: +/160>219 - /108>142,230>277

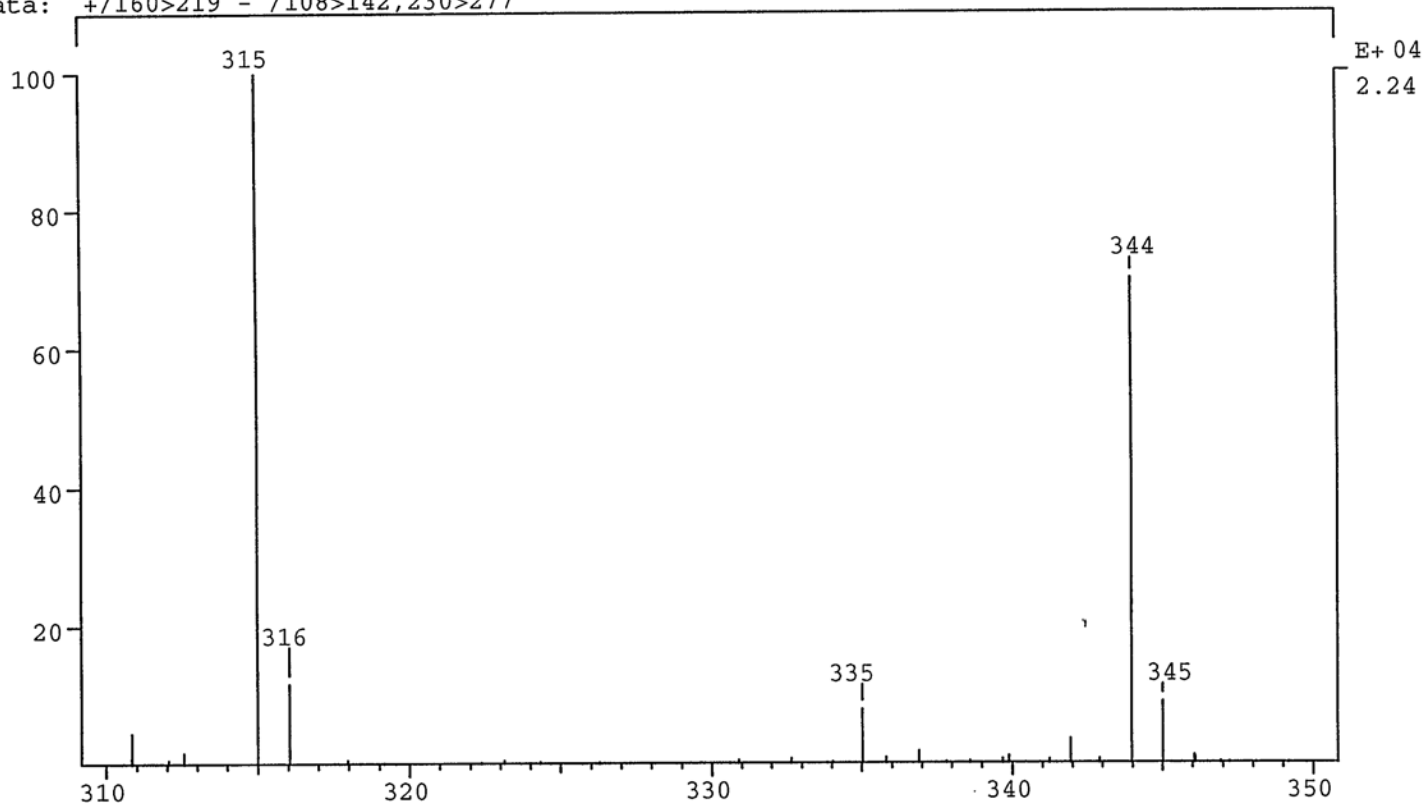
03-FEB-95

DERIVED SPECTRUM
Start : 14:50:47

9
358

Inlet :
Masses: 310 > 350
#peaks: 45

b6 -1
b7c -1



FBI(24-cv-1564)-3323

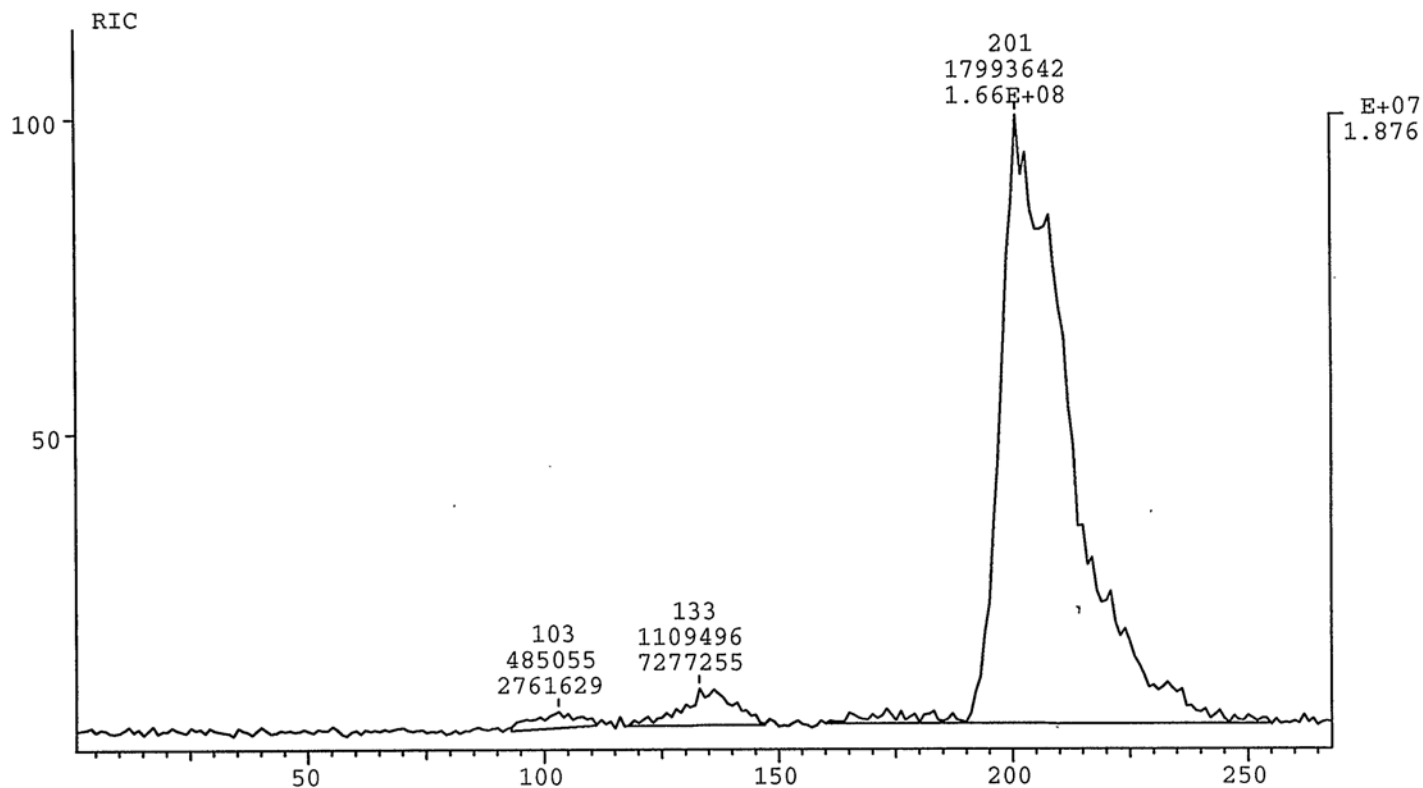
CHRO: edtalc6
Samp: EDTA 50 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI +Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 268
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95

Elapse: 00:02:22.5 264
Start : 15:42:34 268

Inlet :
Masses: 100 > 650
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3324

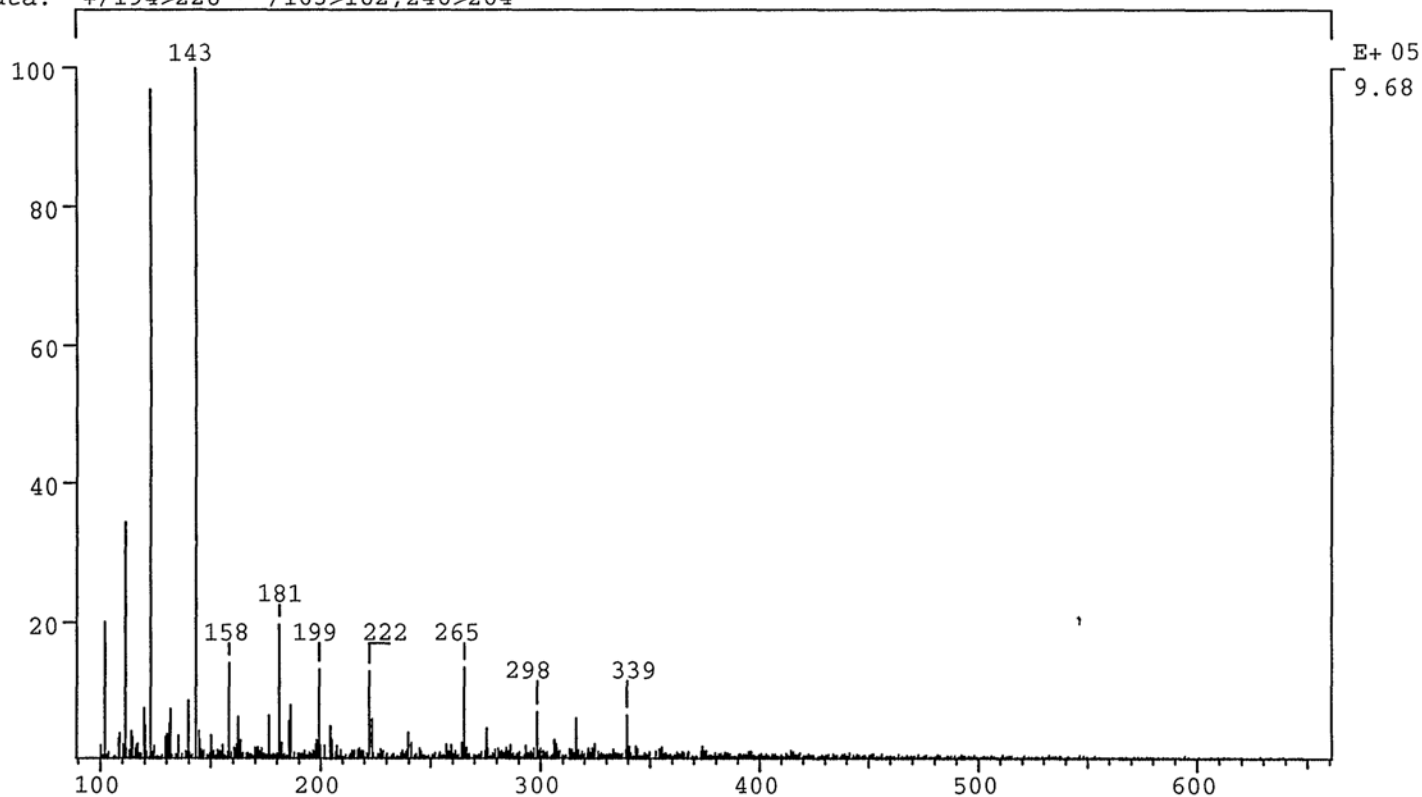
SPEC: edtal6
Samp: EDTA 50 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI +Q1MS LMR UP LR
Oper:
Base: 143.0
Norm: 143.0
Peak: 1000.00 mmu
Data: +/194>228 - /163>182,246>264

03-FEB-95

DERIVED SPECTRUM 9
Start : 15:42:34 268

Inlet :
Masses: 100 > 650
#peaks: 750

b6 -1
b7c -1



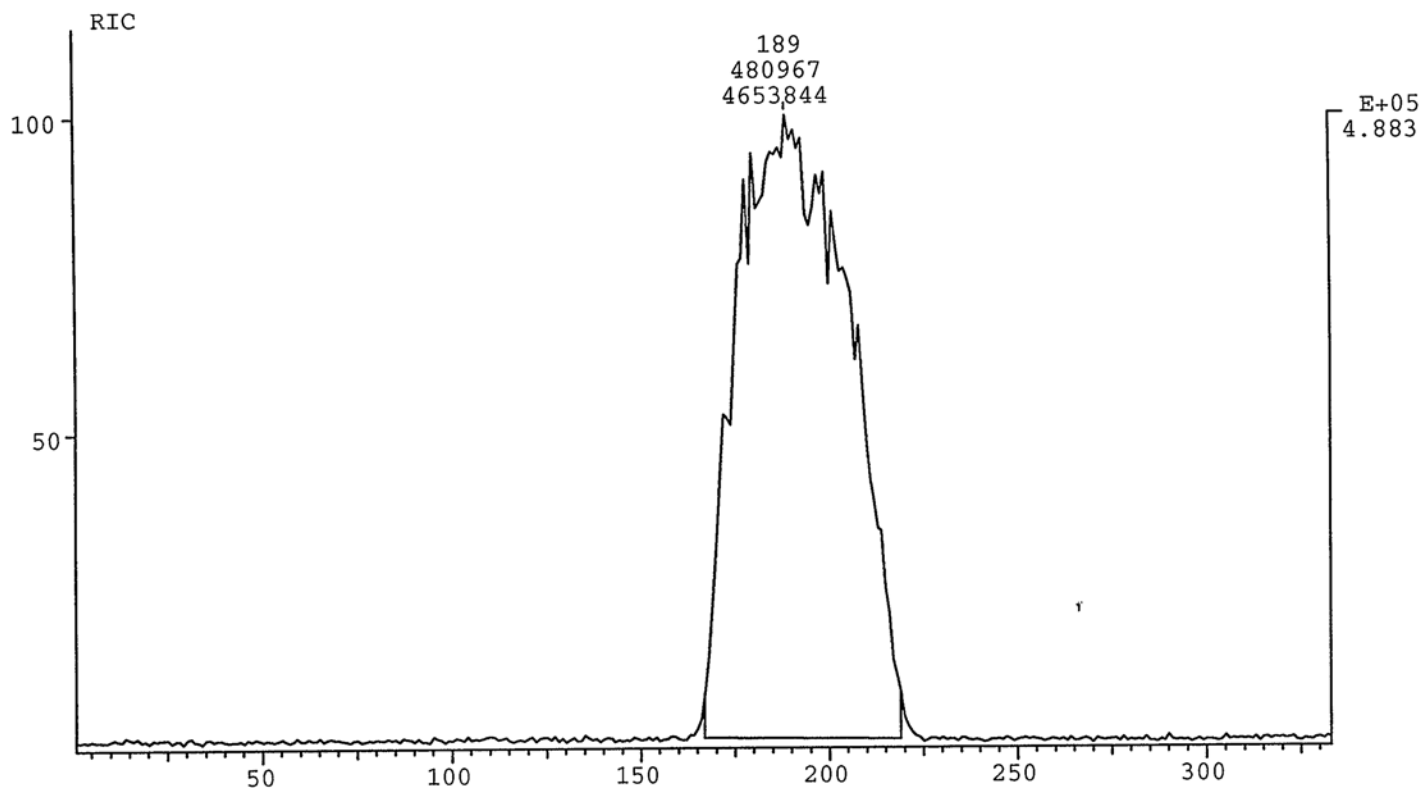
FBI(24-cv-1564)-3325

CHRO: edtalc7
Samp: EDTA 50 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI +Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 333
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95 Elapse: 00:01:24.0 289
Start : 15:48:27 499

Inlet :
Masses: 290 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3326

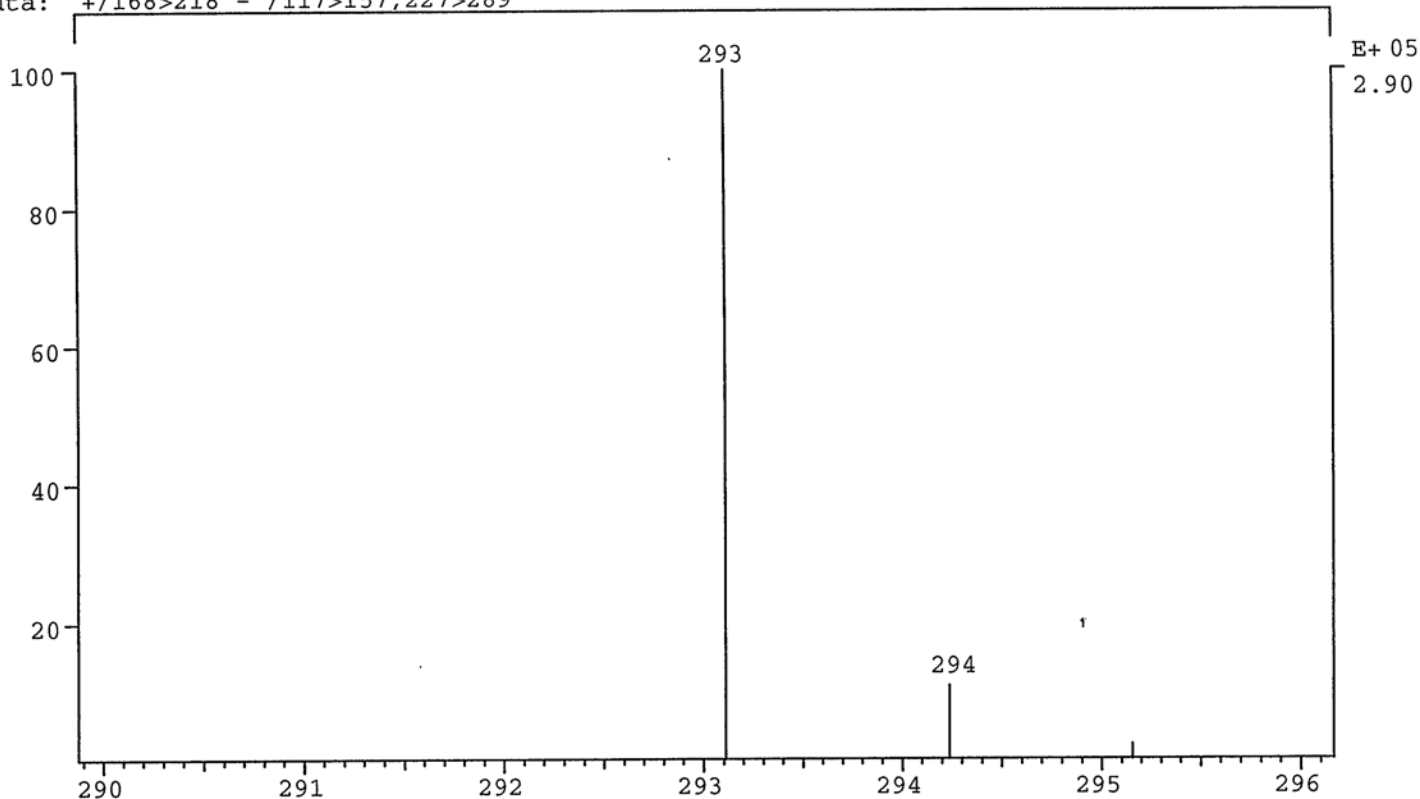
SPEC: edtalc7
Samp: EDTA 50 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: EST +Q1MS LMR UP LR
Oper:
Base: 293.1 Inten : 290004
Norm: 293.1 RIC : 327729
Peak: 1000.00 mmu
Data: +/168>218 - /117>157,227>289

03-FEB-95

DERIVED SPECTRUM 9
Start : 15:48:27 499

Inlet :
Masses: 290 > 296
#peaks: 5

b6 -1
b7c -1



FBI(24-cv-1564)-3327

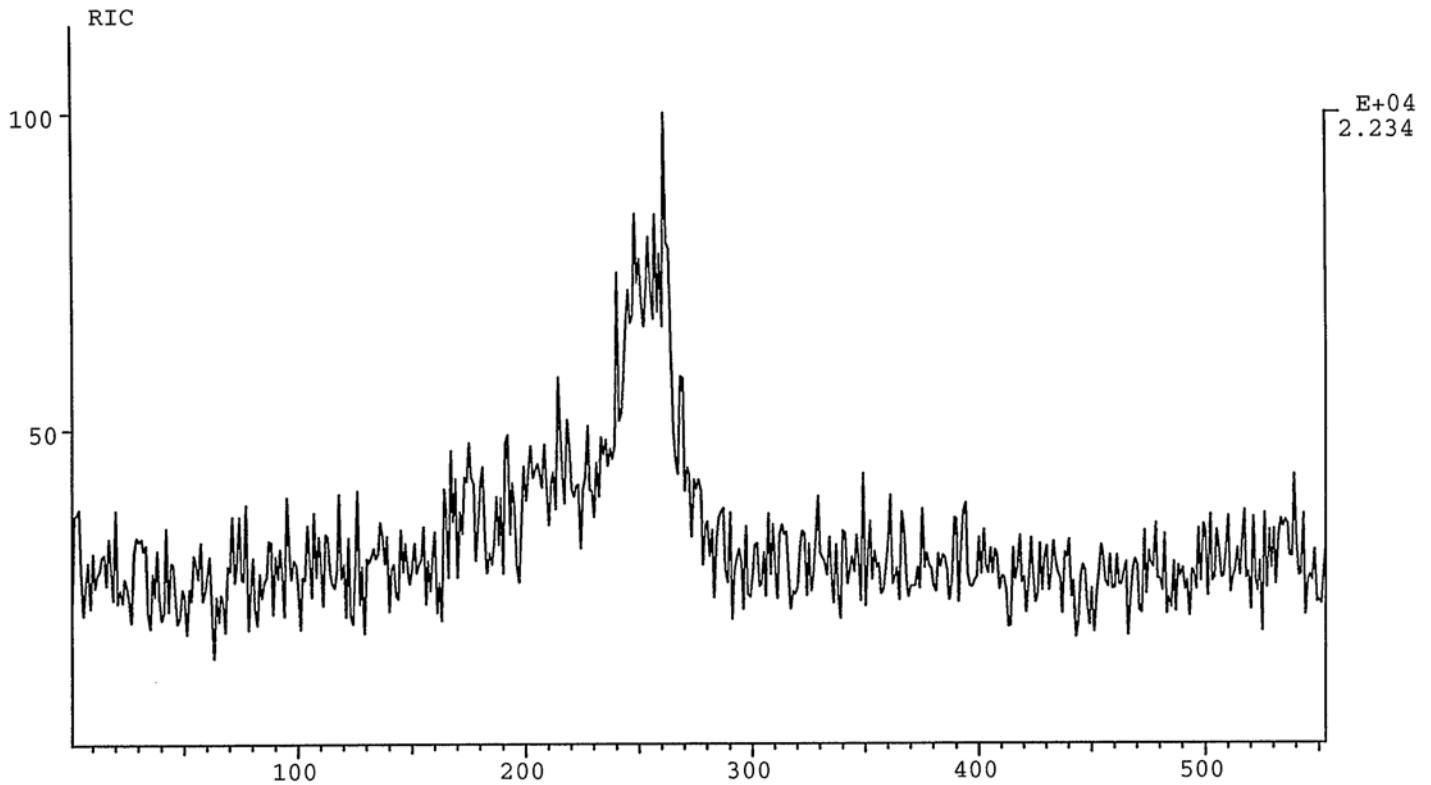
CHRO: edtalc8
Samp: EDTA 10 NG IN 1 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI +Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 553
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95

Elapse: 00:01:52.9 391
Start : 15:55:18 553

Inlet :
Masses: 290 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3328

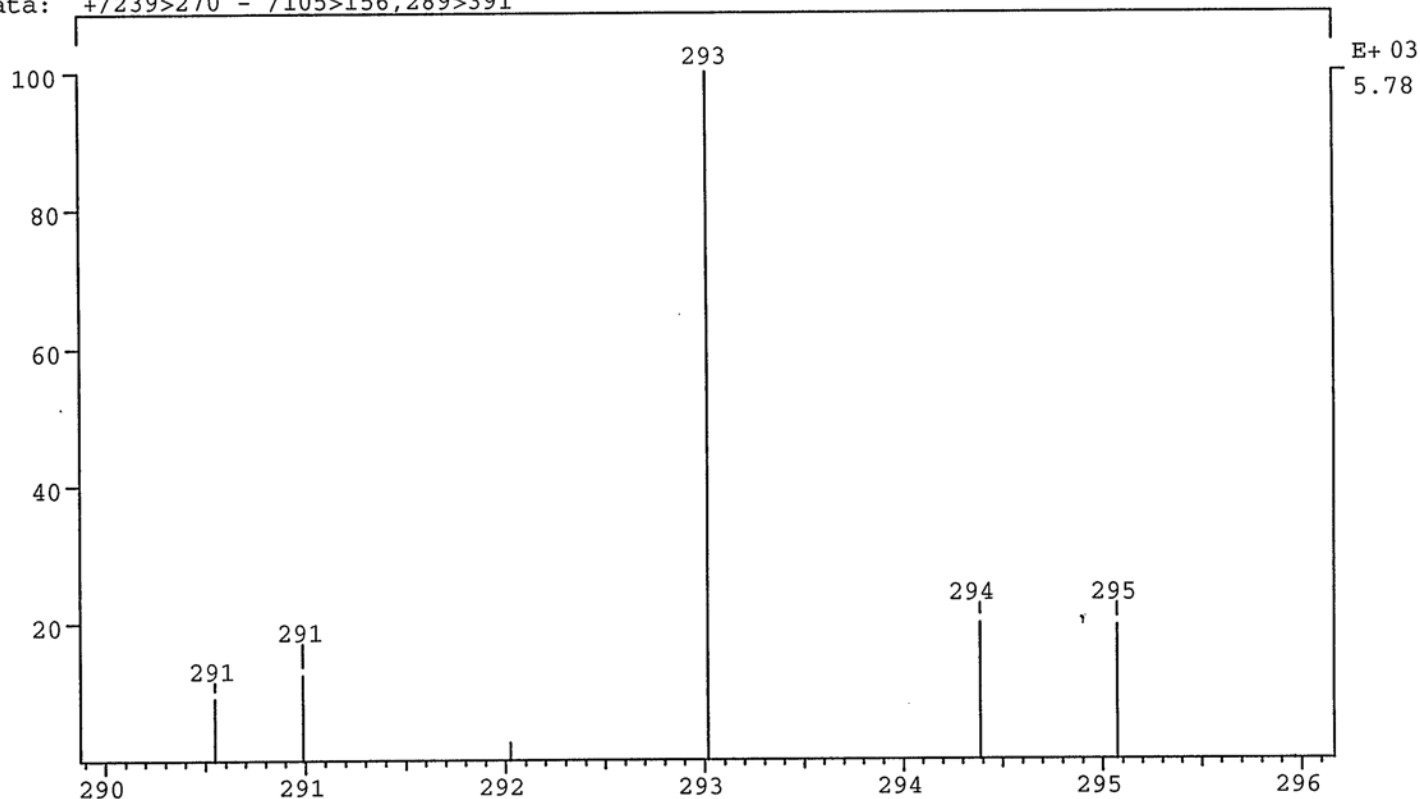
SPEC: edtalc8
Samp: EDTA 10 NG IN 1 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI +Q1MS LMR UP LR
Oper:
Base: 293.0
Norm: 293.0
Peak: 1000.00 mmu
Data: +/239>270 - /105>156,289>391

03-FEB-95

DERIVED SPECTRUM 9
Start : 15:55:18 553

Inlet :
Masses: 290 > 296
#peaks: 7

b6 -1
b7c -1



FBI(24-cv-1564)-3329

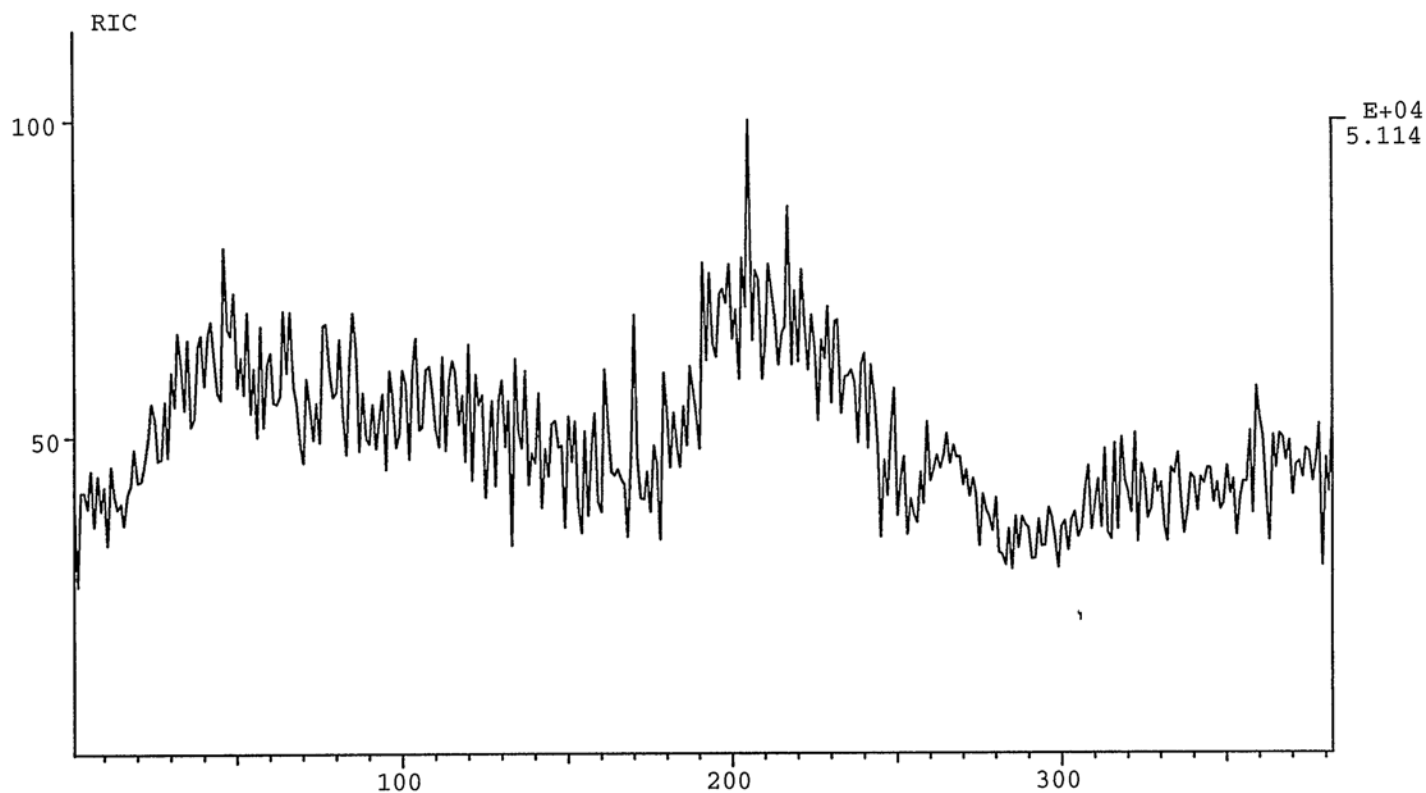
CHRO: edtalc9
Samp: EDTA 10 NG IN 1 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 382
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95

Elapse: 00:01:35.3 329
Start : 16:03:14 382

Inlet :
Masses: 285 > 350
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3330

SPEC: edtal9
Samp: EDTA 10 NG IN 1 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 344.0 Inten : 4429
Norm: 344.0 RIC : 13042
Peak: 1000.00 mmu
Data: +/-187>241 - /118>161,281>329

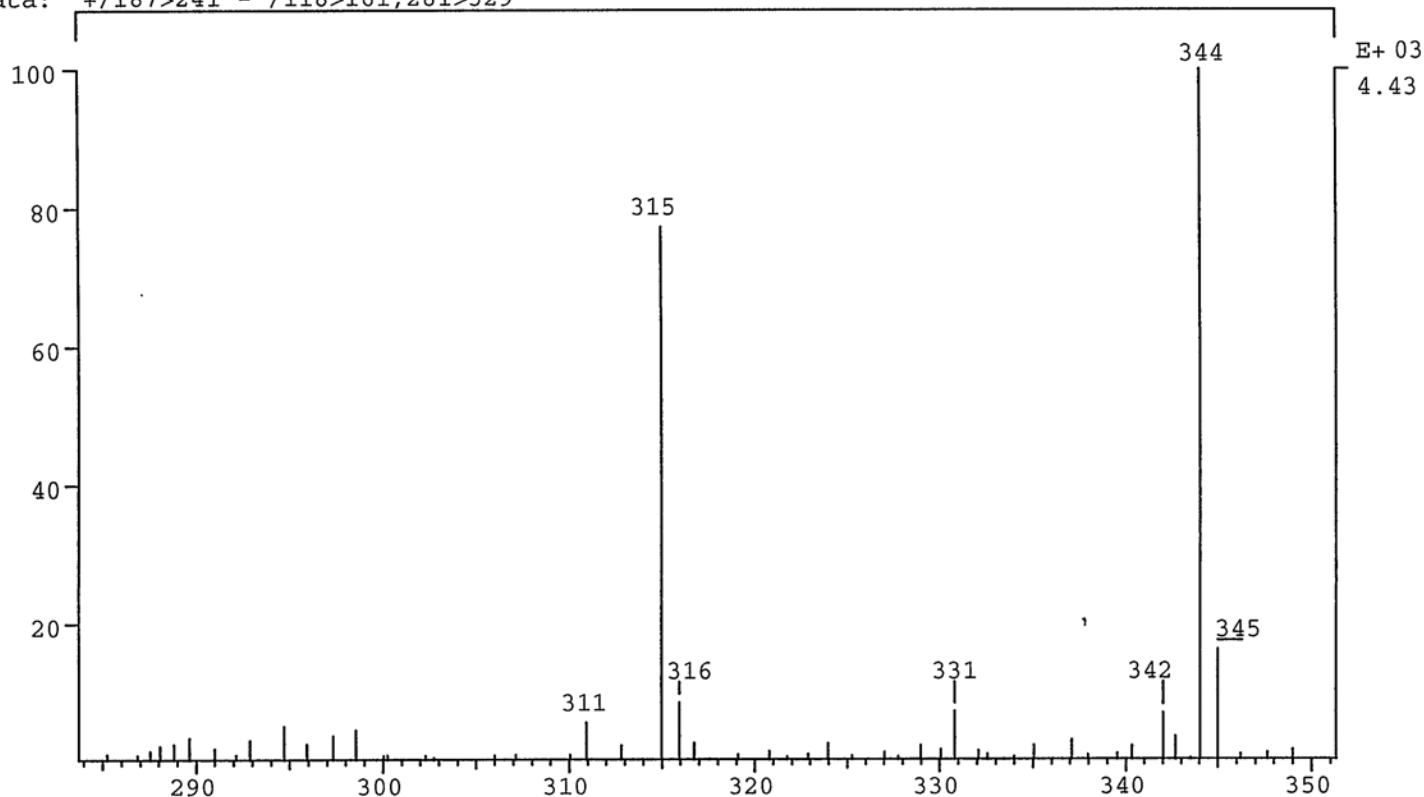
03-FEB-95

DERIVED SPECTRUM
Start : 16:03:14

9
382

Inlet :
Masses: 285 > 350
#peaks: 63

b6 -1
b7c -1



FBI(24-cv-1564)-3331

CHRO: edtaneg
Samp: EDTA AT 100 PPM AND 10 PPM
Comm: ACN/H2O 5:95 FIA 0.3 ML/MIN
Mode: ESI -Q1MS LMR UP LR

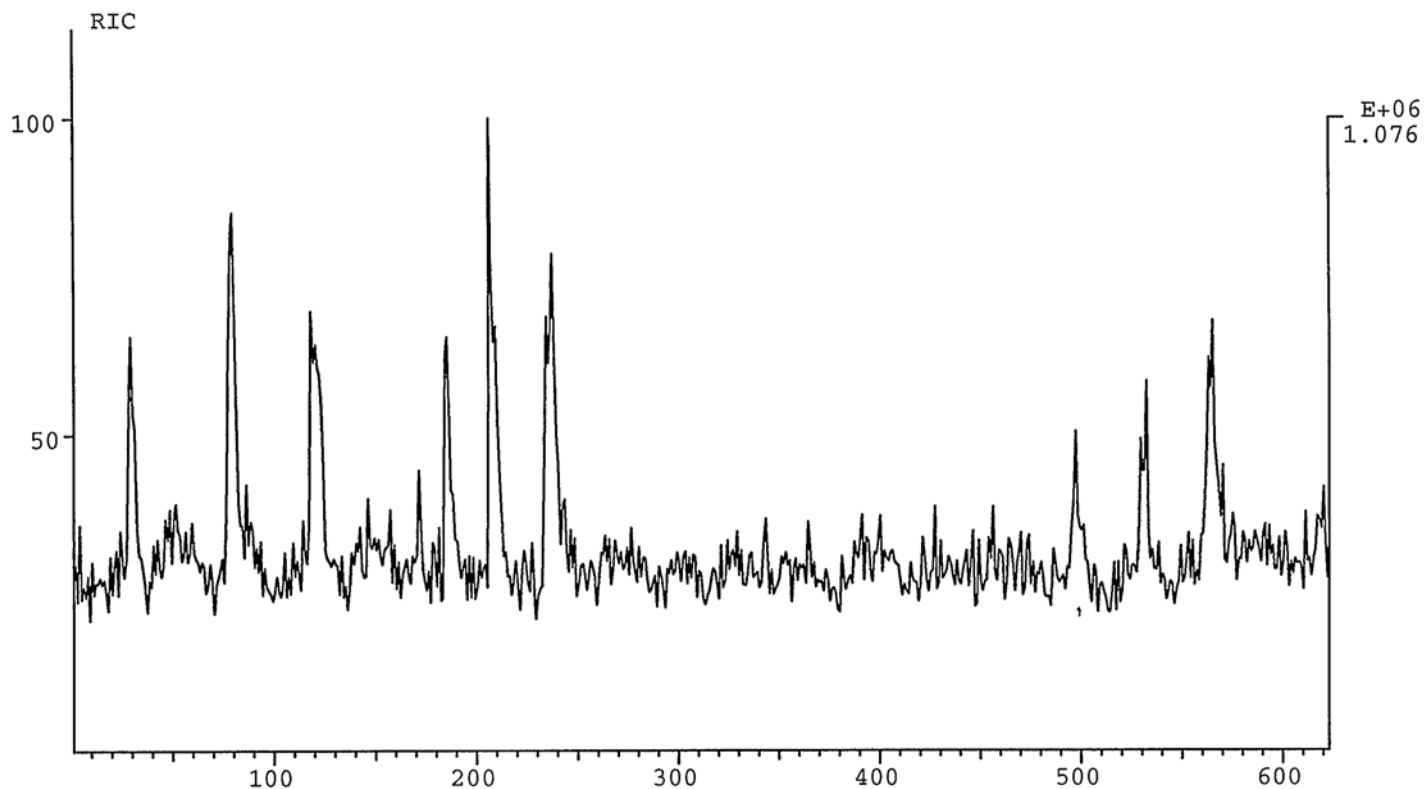
03-FEB-95

Elapse: 00:01:52.8 208
Start : 10:15:49 623

Oper:
Peak: 1000.00 mmu Label wndw: 1 > 623
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

Inlet :
Masses: 100 > 650
Label : 15, 40.00

b6 -1
b7c -1

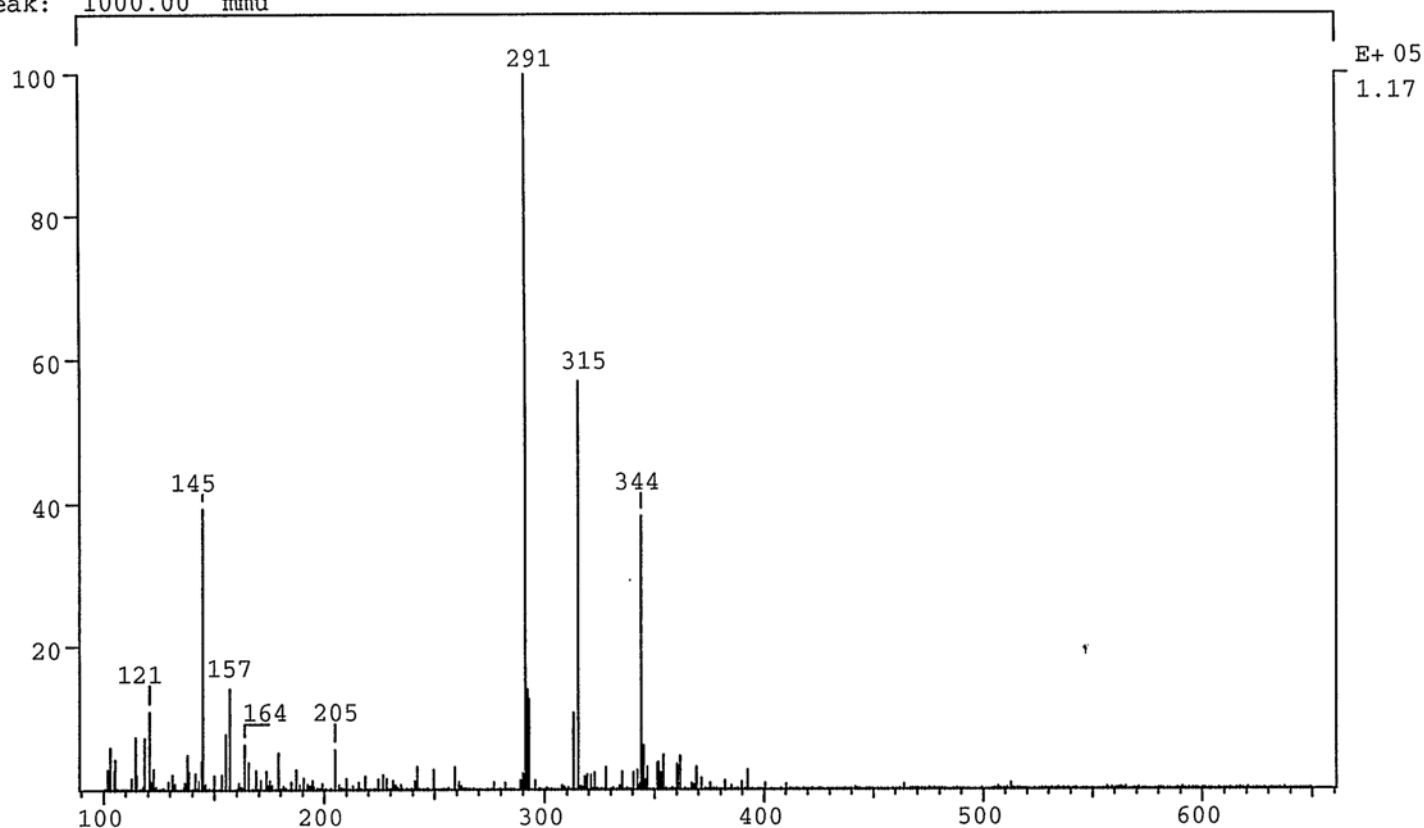


FBI(24-cv-1564)-3332

SPEC: edtaneg
Samp: EDTA AT 100 PPM AND 10 PPM
Comm: ACN/H2O 5:95 FIA 0.3 ML/MIN
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 291.0
Norm: 291.0
Peak: 1000.00 mmu

03-FEB-95 Elapse: 00:01:52.8 208
Start : 10:15:49 623
Inlet :
Masses: 100 > 650
#peaks: 552

b6 -1
b7c -1

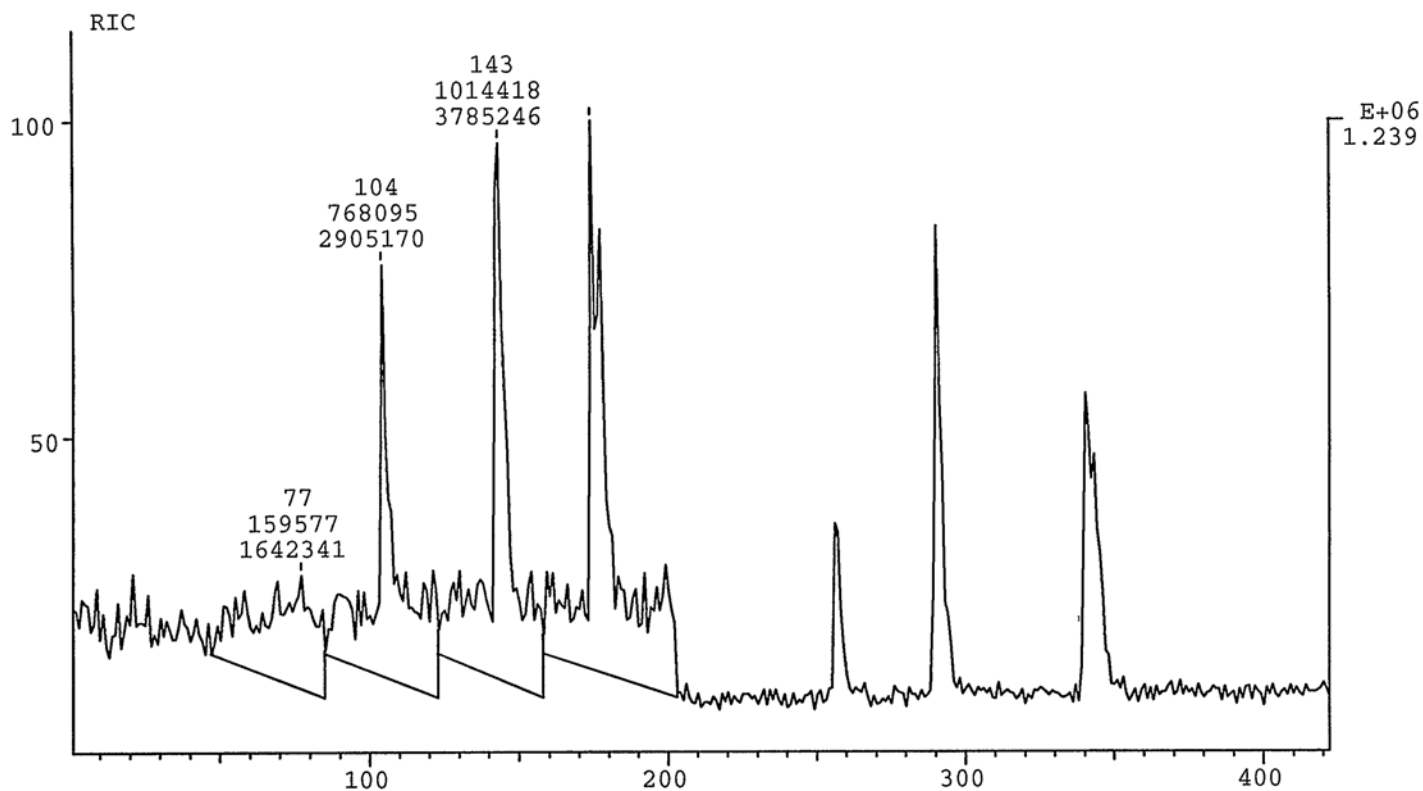


FBI(24-cv-1564)-3333

CHRO: edtaneg1 03-FEB-95 Elapse: 00:01:18.9 143
Samp: EDTA AT 100 PPM AND 10 PPM Start : 10:51:48 422
Comm: ACN/H2O/10mM NH3 5:90:5 FIA 0.3 ML/MIN
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 422
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

Inlet :
Masses: 65 > 400
Label : 15, 40.00

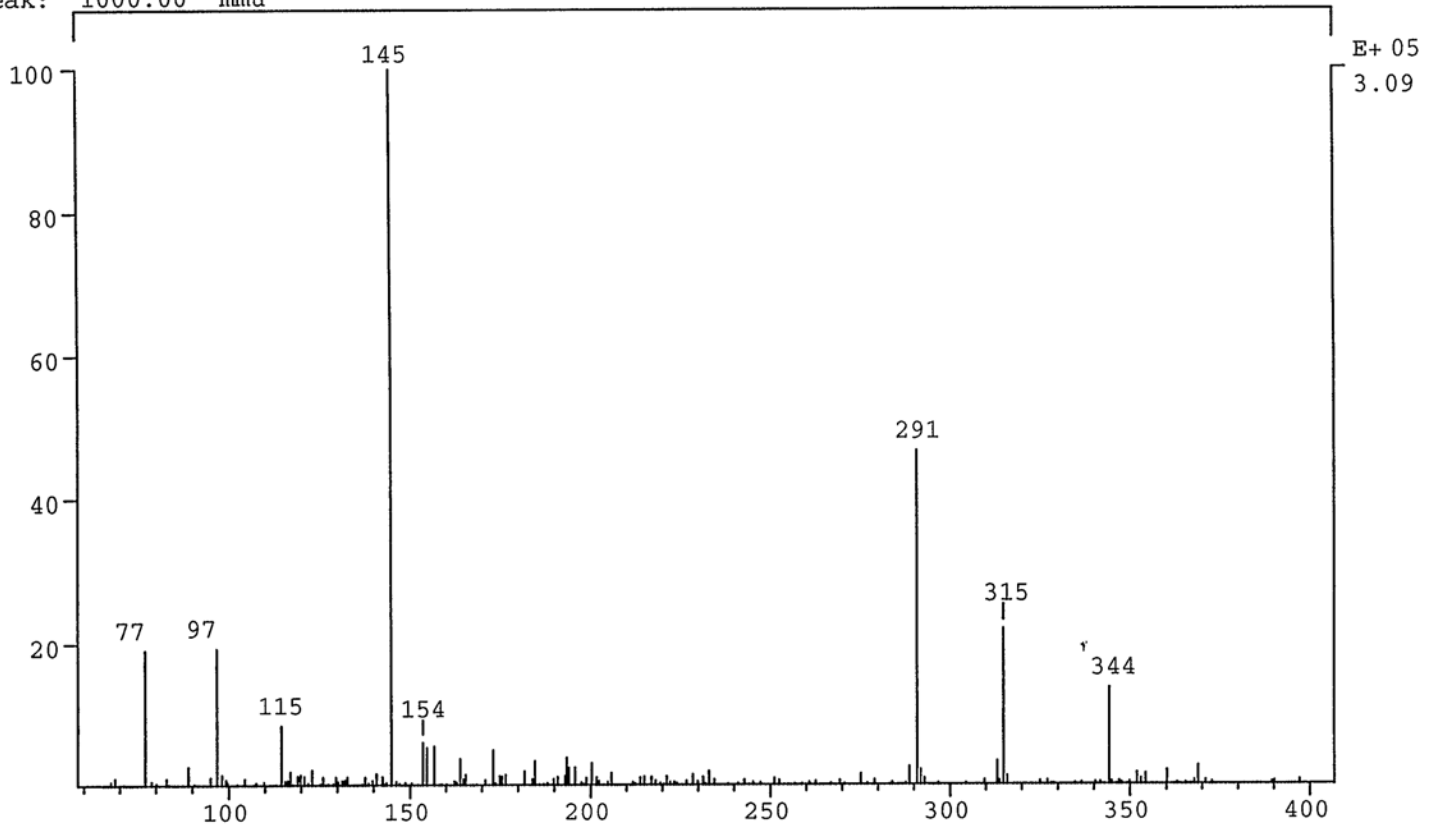
b6 -1
b7C -1



FBI(24-cv-1564)-3334

SPEC: edtaneg1 03-FEB-95 Elapse: 00:01:18.9 143
Samp: EDTA AT 100 PPM AND 10 PPM Start : 10:51:48 422
Comm: ACN/H2O/10mM NH3 5:90:5 FIA 0.3 ML/MIN
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 144.9 Inten : 308769 Inlet :
Norm: 144.9 RIC : 1196415 Masses: 65 > 400
Peak: 1000.00 mmu #peaks: 337

b6 -1
b7c -1



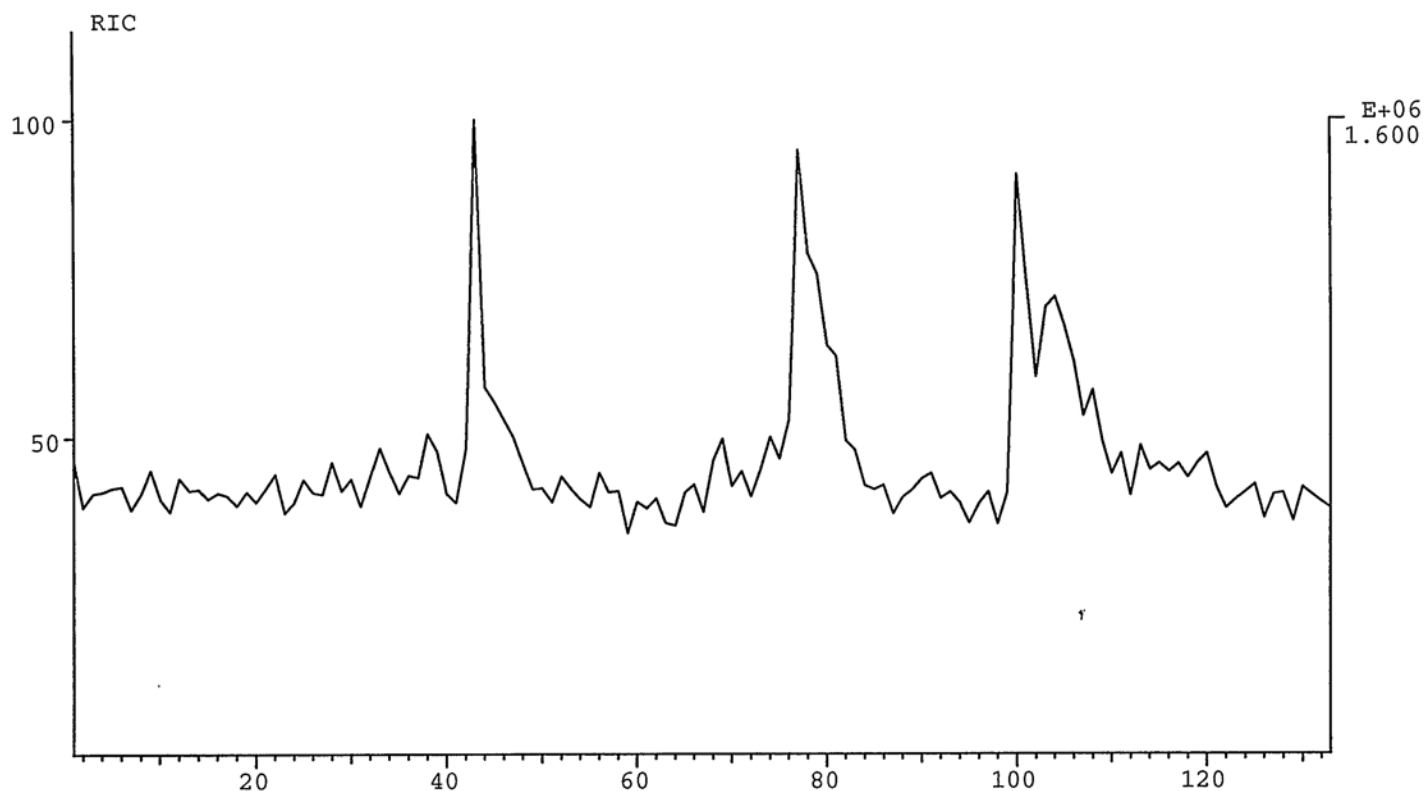
FBI(24-cv-1564)-3335

CHRO: edtaneg2
Samp: EDTA AT 100 PPM AND 10 PPM
Comm: ACN/10mM NH3 5:95 FIA 0.3 ML/MIN
Mode: EST-Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 133
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95 Elapse: 00:00:25.1 43
Start : 11:22:49 133

Inlet :
Masses: 65 > 350
Label : 15, 40.00

b6 -1
b7c -1

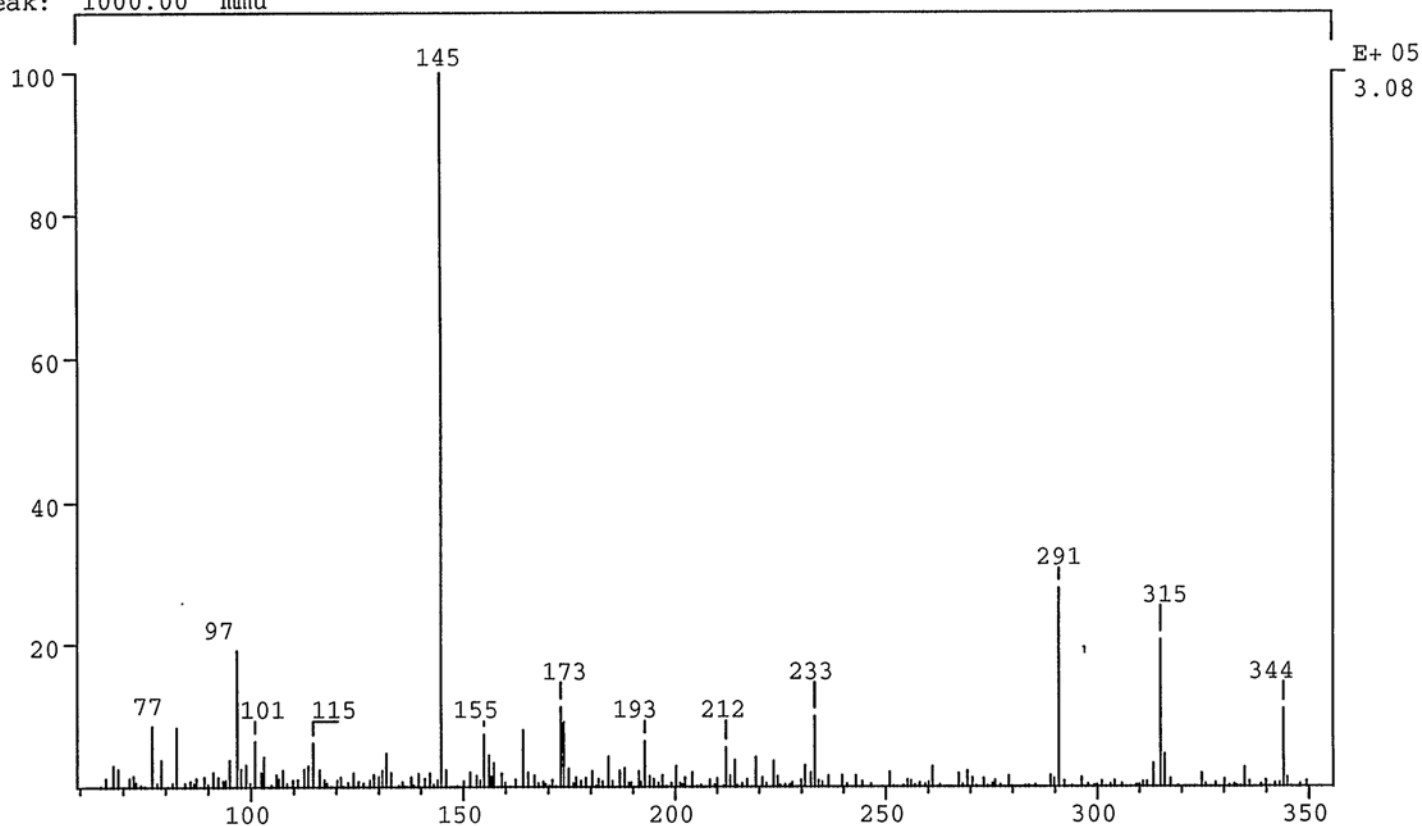


FBI(24-cv-1564)-3336

SPEC: edtaneg2
Samp: EDTA AT 100 PPM AND 10 PPM
Comm: ACN/10mM NH3 5:95 FIA 0.3 ML/MIN
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 144.9
Norm: 144.9
Peak: 1000.00 mmu

03-FEB-95 Elapse: 00:00:25.1 43
Start : 11:22:49 133
Inlet :
Masses: 65 > 350
#peaks: 286

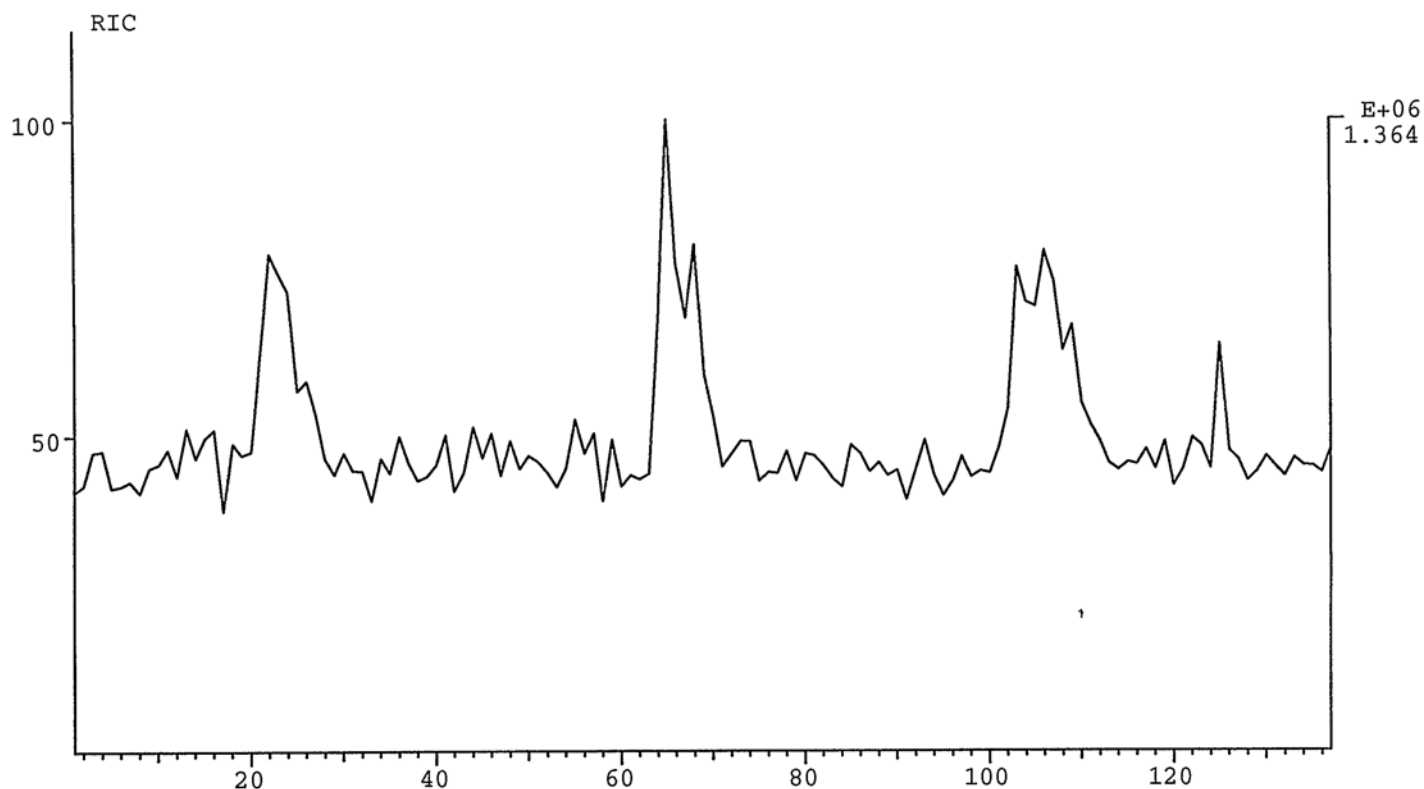
b6 -1
b7C -1



FBI(24-cv-1564)-3337

CHRO: edtaneg3 03-FEB-95 Elapse: 00:00:37.3 66
Samp: EDTA AT 100 PPM AND 10 PPM Start : 11:39:13 137
Comm: ACN/H2O/10mM NH3 5:47.5:47.5 FIA 0.3 ML/MIN
Mode: EST-Q1MS LMR UP LR
Oper: ☐
Peak: 1000.00 mmu Label wndw: 1 > 137 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 65 > 350
Disp: Height Area Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3338

SPEC: edtaneg3
Samp: EDTA AT 100 PPM AND 10 PPM
Comm: ACN/H2O/10mM NH3 5:47.5:47.5 FIA 0.3 ML/MIN
Mode: EST-Q1MS LMR UP LR
Oper:
Base: 145.0
Norm: 145.0
Peak: 1000.00 mmu

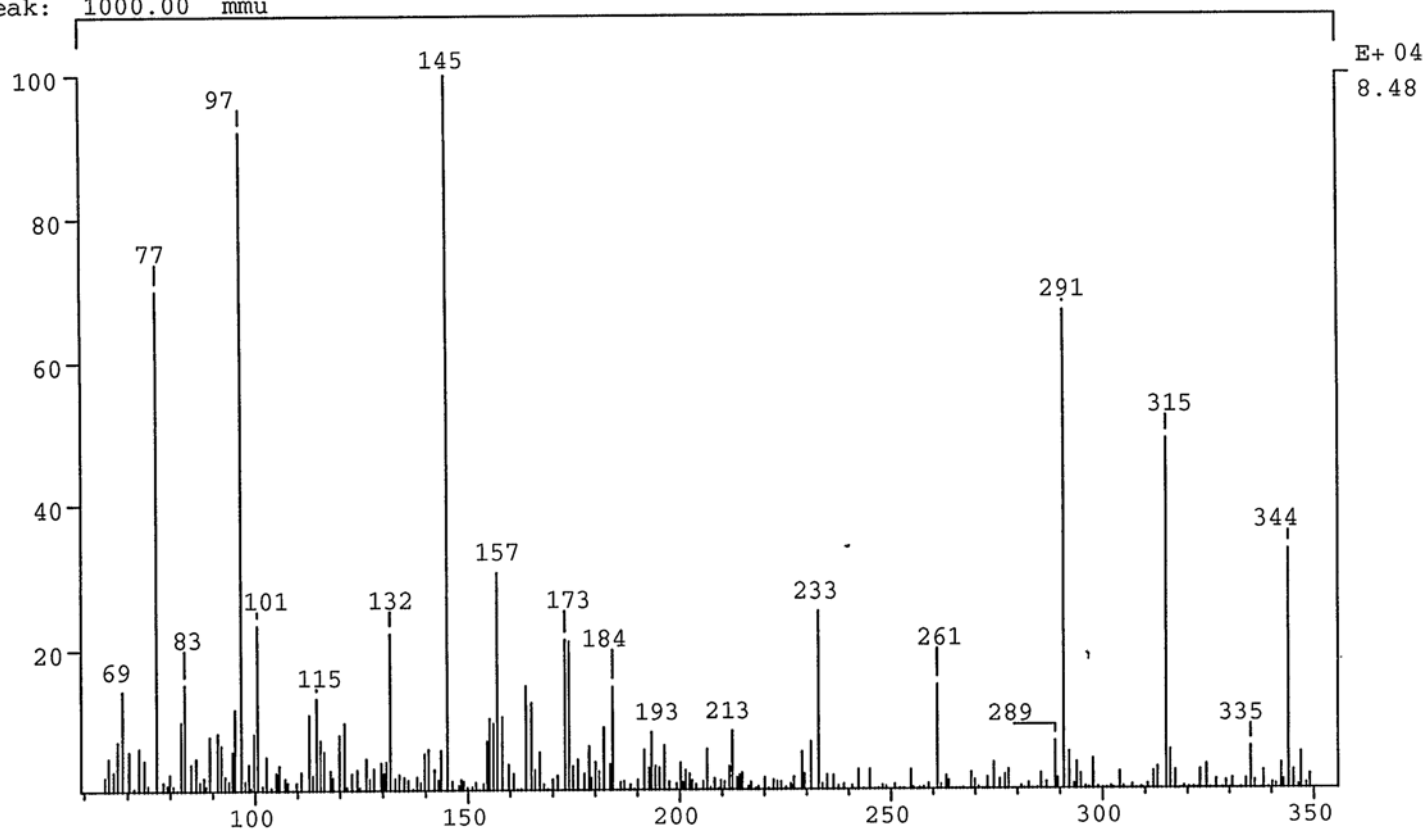
03-FEB-95

Elapse: 00:00:37.3 66
Start : 11:39:13 137

Inten : 84760
RIC : 1054337

Inlet :
Masses: 65 > 350
#peaks: 291

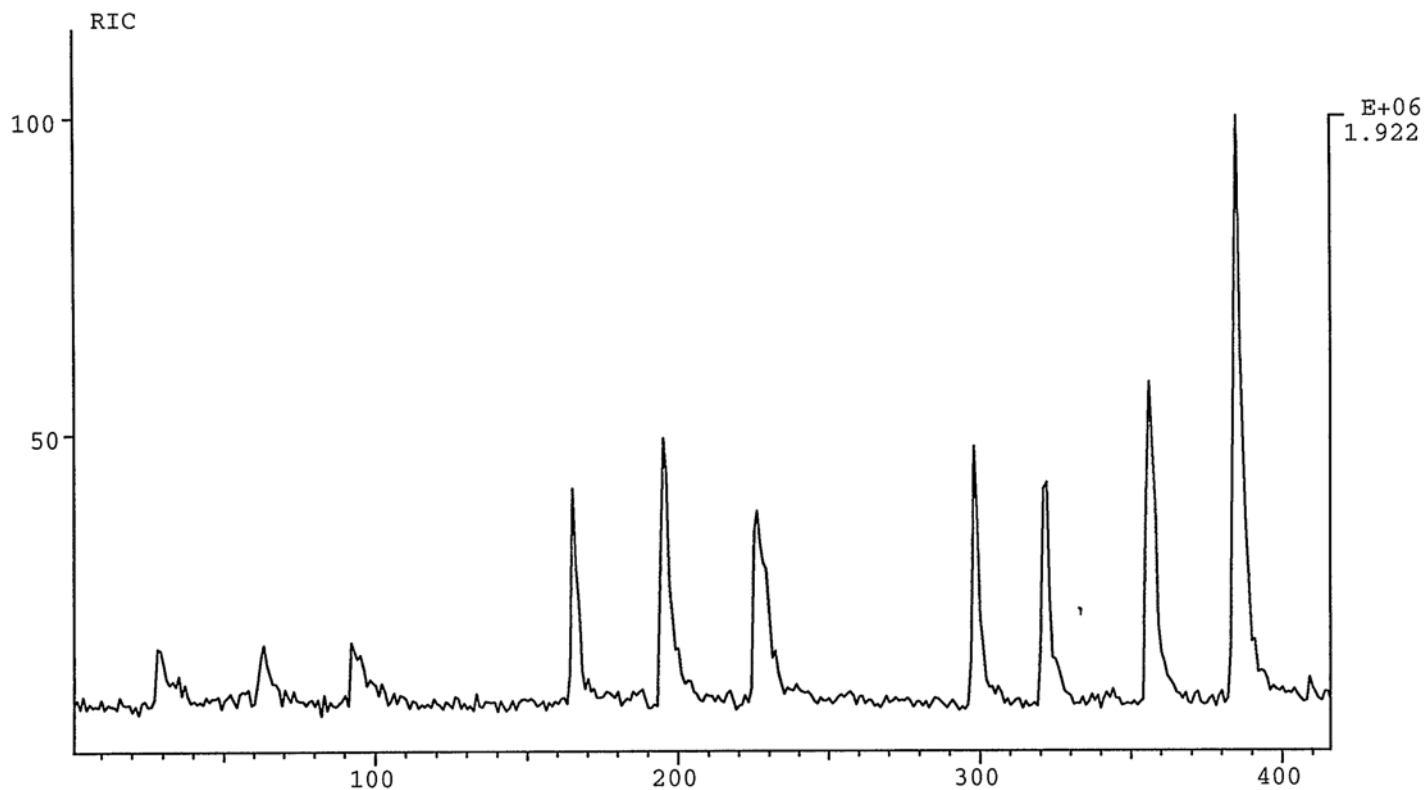
b6 -1
b7c -1



FBI(24-cv-1564)-3339

CHRO: edtaneg4 03-FEB-95 Elapse: 00:03:28.7 386
Samp: EDTA AT 100 PPM AND 10 PPM Start : 13:32:51 416
Comm: ACN/H2O/10mM NH3 5:90:5 FIA 0.3 ML/MIN
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 416 Inlet : Masses: 140 > 350
Area: 80, 4.00 Baseline : 0, 401 Label : 15, 40.00
Disp: Height Area

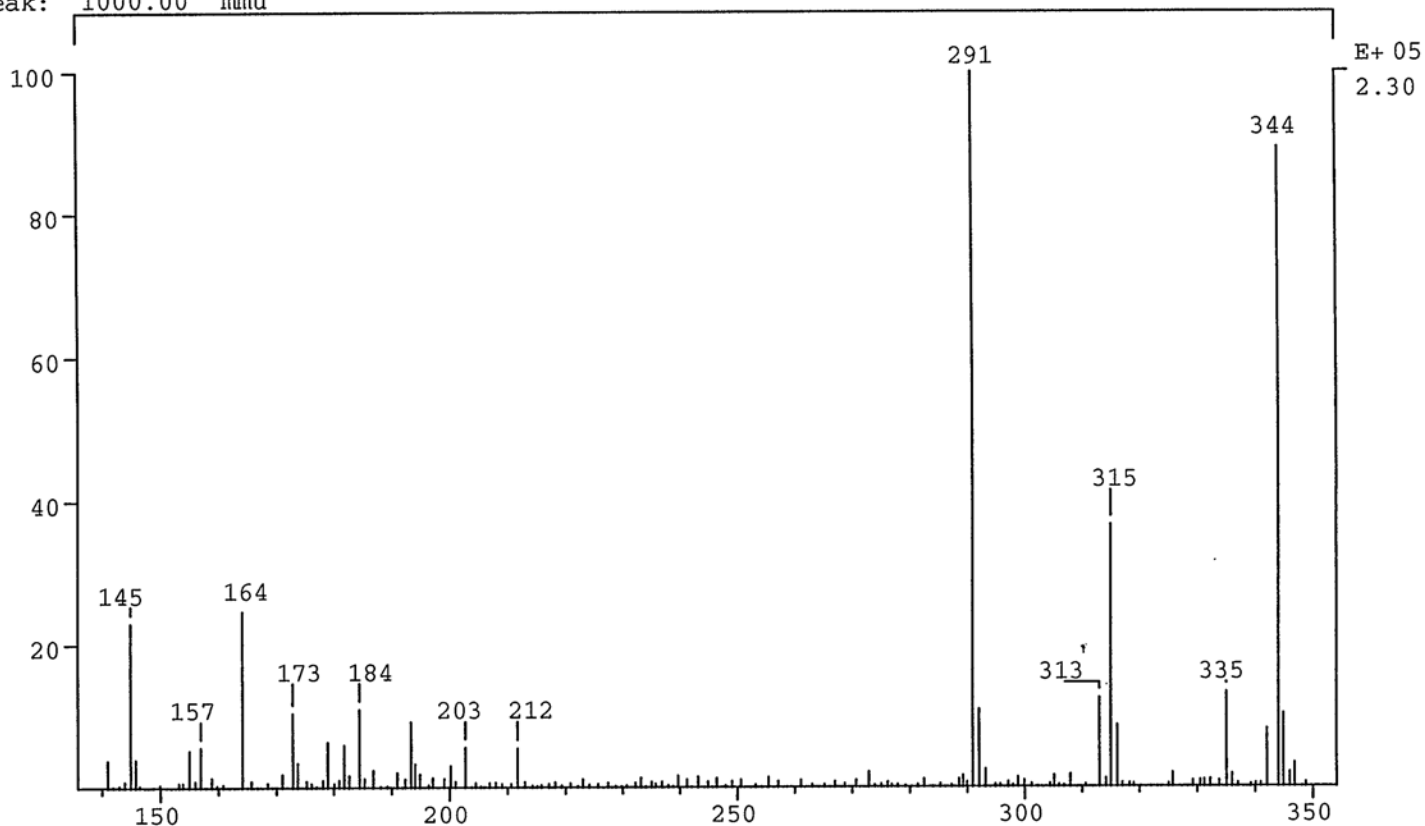
b6 -1
b7c -1



FBI(24-cv-1564)-3340

SPEC: edtaneg4 03-FEB-95 Elapse: 00:03:28.7 386
Samp: EDTA AT 100 PPM AND 10 PPM Start : 13:32:51 416
Comm: ACN/H2O/10mM NH3 5:90:5 FIA 0.3 ML/MIN
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 291.0 Inten : 230346 Inlet :
Norm: 291.0 RIC : 1212374 Masses: 140 > 350
Peak: 1000.00 mmu #peaks: 208

b6 -1
b7c -1



FBI(24-cv-1564)-3341

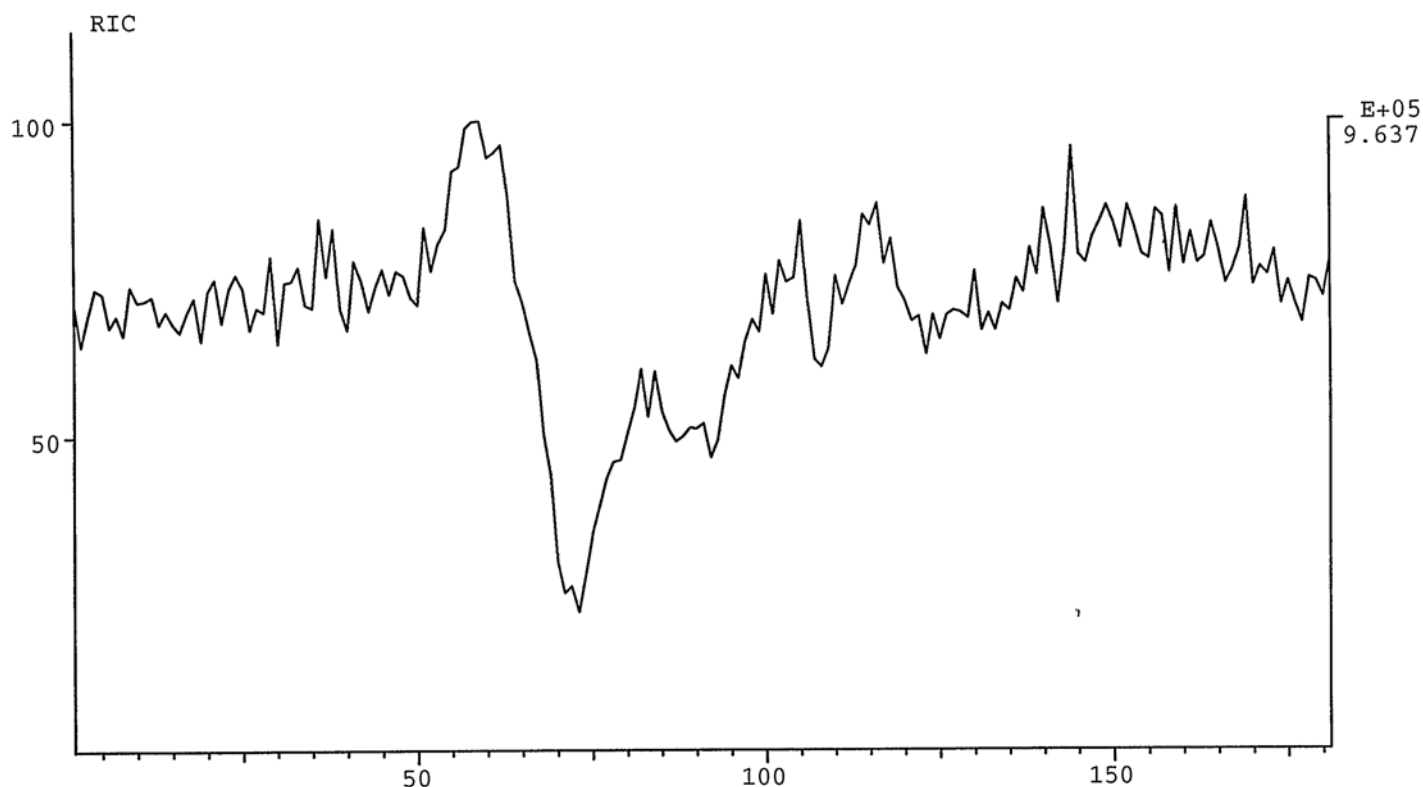
CHRO: edtanh3a
Samp: EDTA 50 NG IN 5 UL, DI-NA SALT
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI-Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 181
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

06-FEB-95

Elapse: 00:01:26.4 81
Start : 15:29:44 181

Inlet :
Masses: 160 > 650
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3342

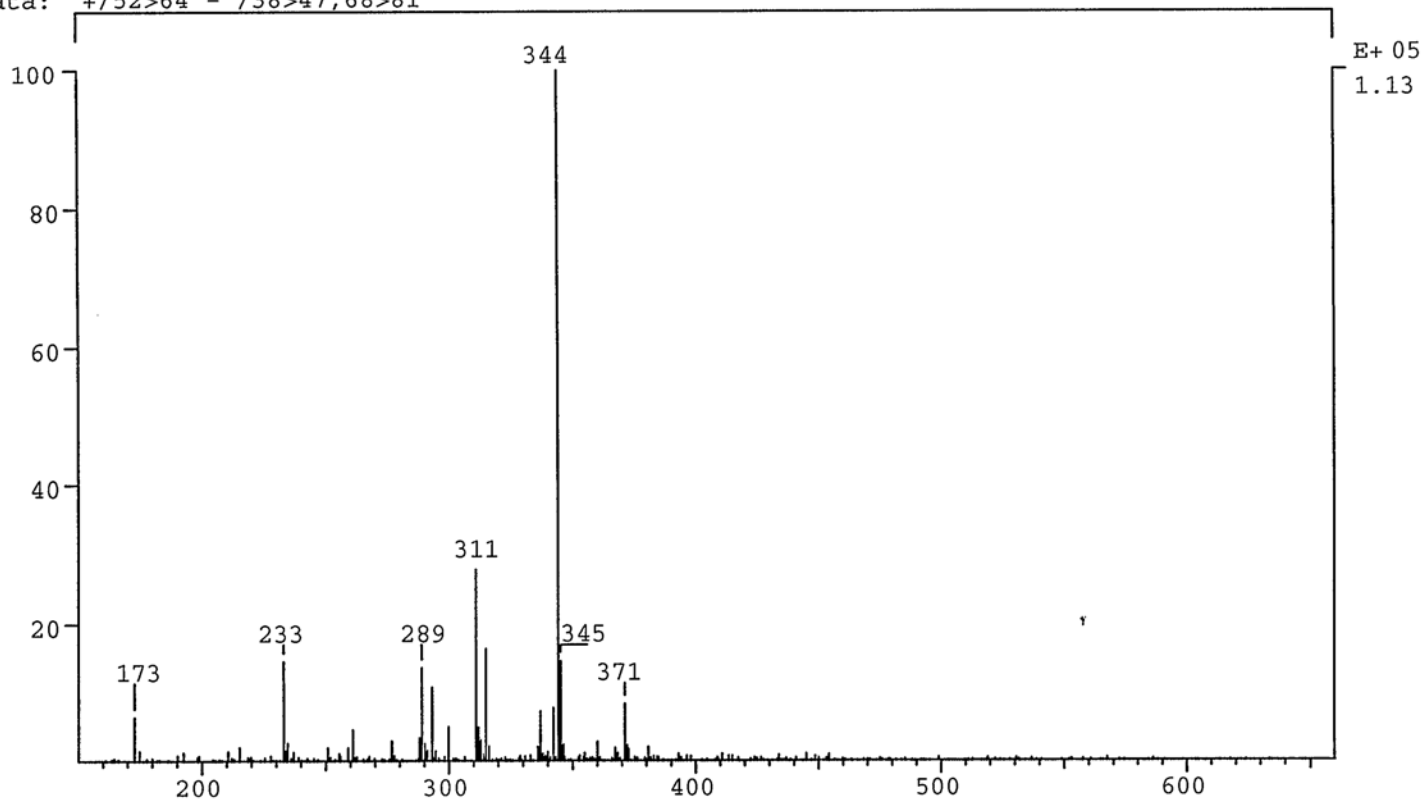
SPEC: edtanh3a
Samp: EDTA 50 NG IN 5 UL, DI-NA SALT
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 344.0
Norm: 344.0
Peak: 1000.00 mmu
Data: +/52>64 - /38>47,68>81

06-FEB-95

DERIVED SPECTRUM 9
Start : 15:29:44 181

Inlet :
Masses: 160 > 650
#peaks: 388

b6 -1
b7c -1



FBI(24-cv-1564)-3343

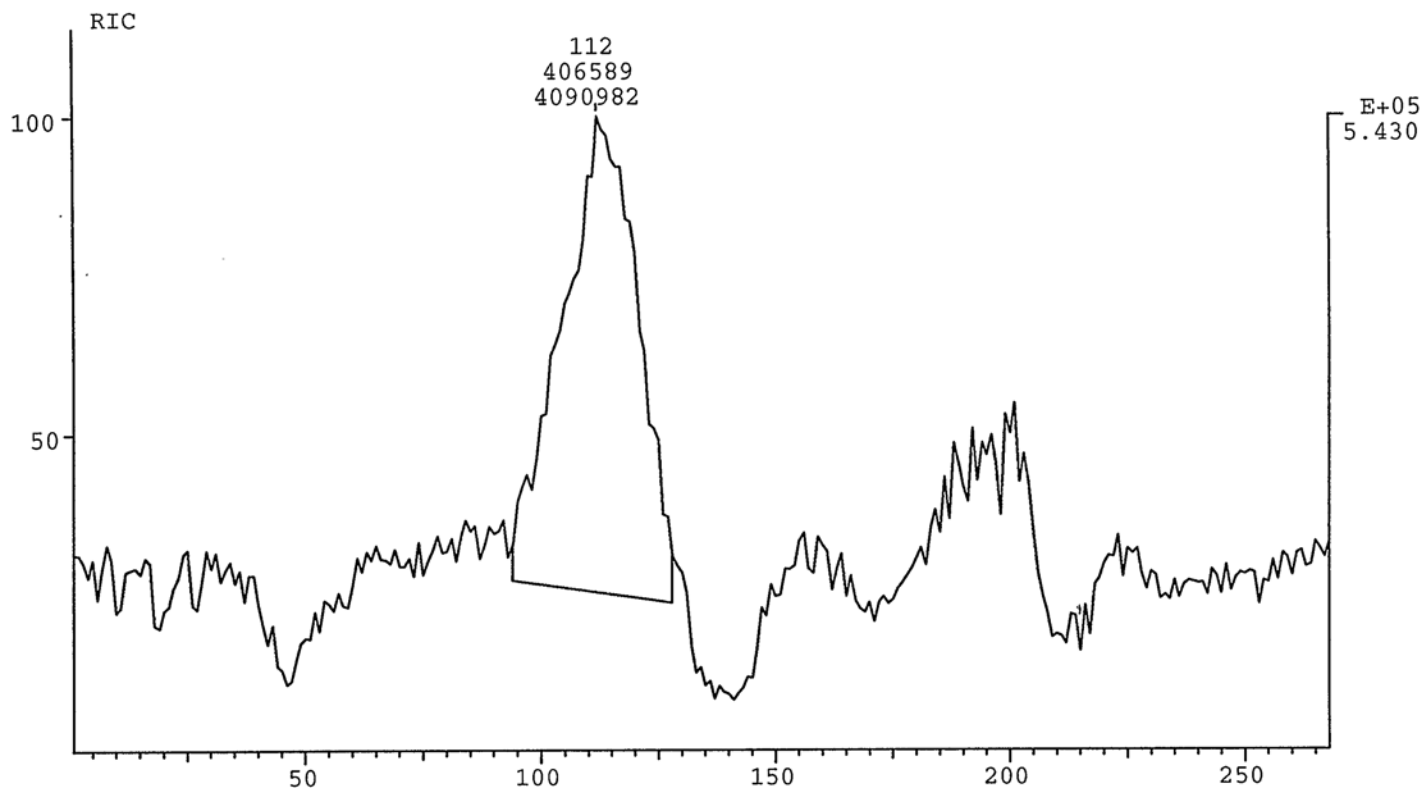
CHRO: edtanh3b
Samp: EDTA 50 NG IN 5 UL, DI-NA SALT
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 268
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

06-FEB-95

Elapse: 00:01:24.1 153
Start : 15:37:43 268

Inlet :
Masses: 280 > 350
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3344

SPEC: edtanh3b
Samp: EDTA 50 NG IN 5 UL, DI-NA SALT
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 344.0
Norm: 344.0
Peak: 1000.00 mmu
Data: +/95>127 - /64>84,129>153

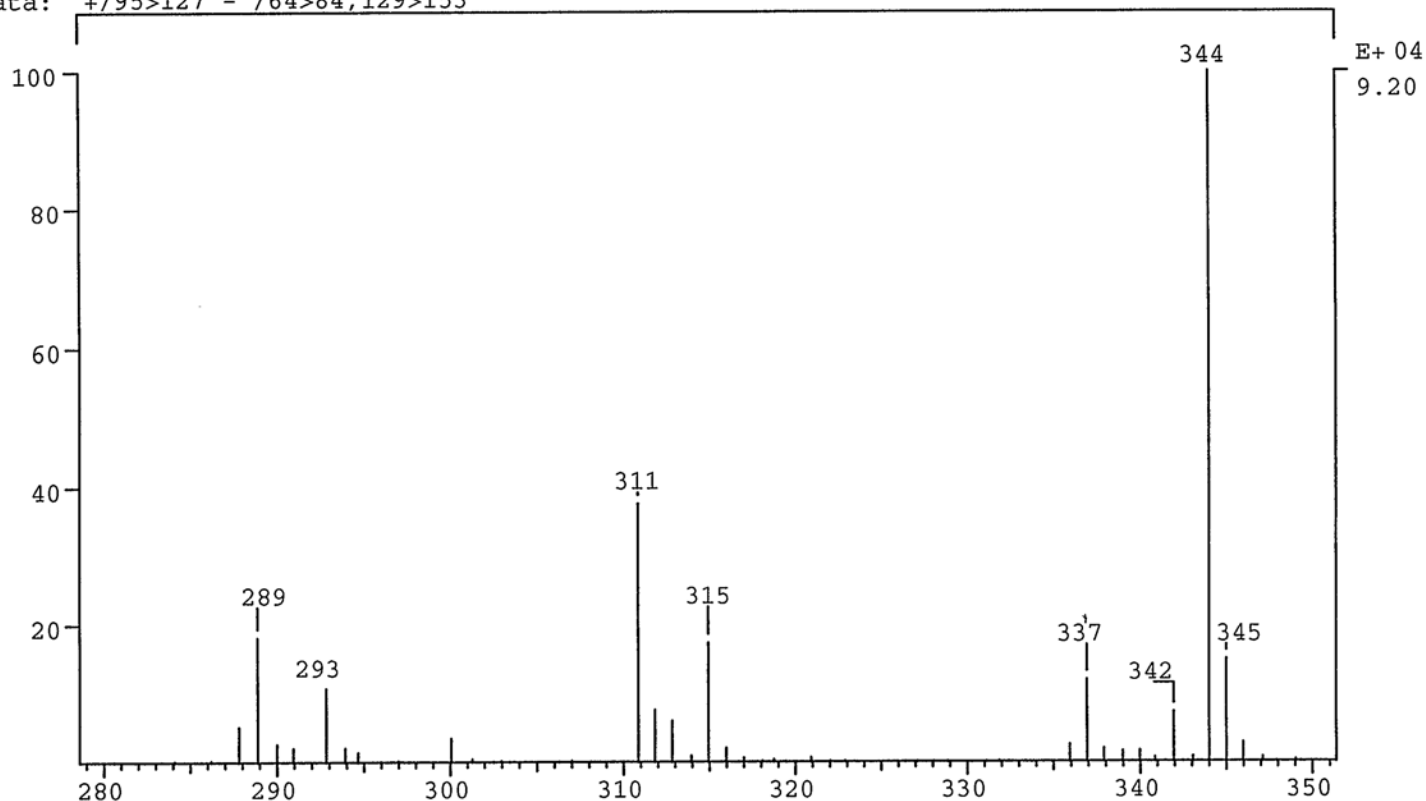
06-FEB-95

DERIVED SPECTRUM
Start : 15:37:43

9
268

Inlet :
Masses: 280 > 350
#peaks: 66

b6 -1
b7c -1

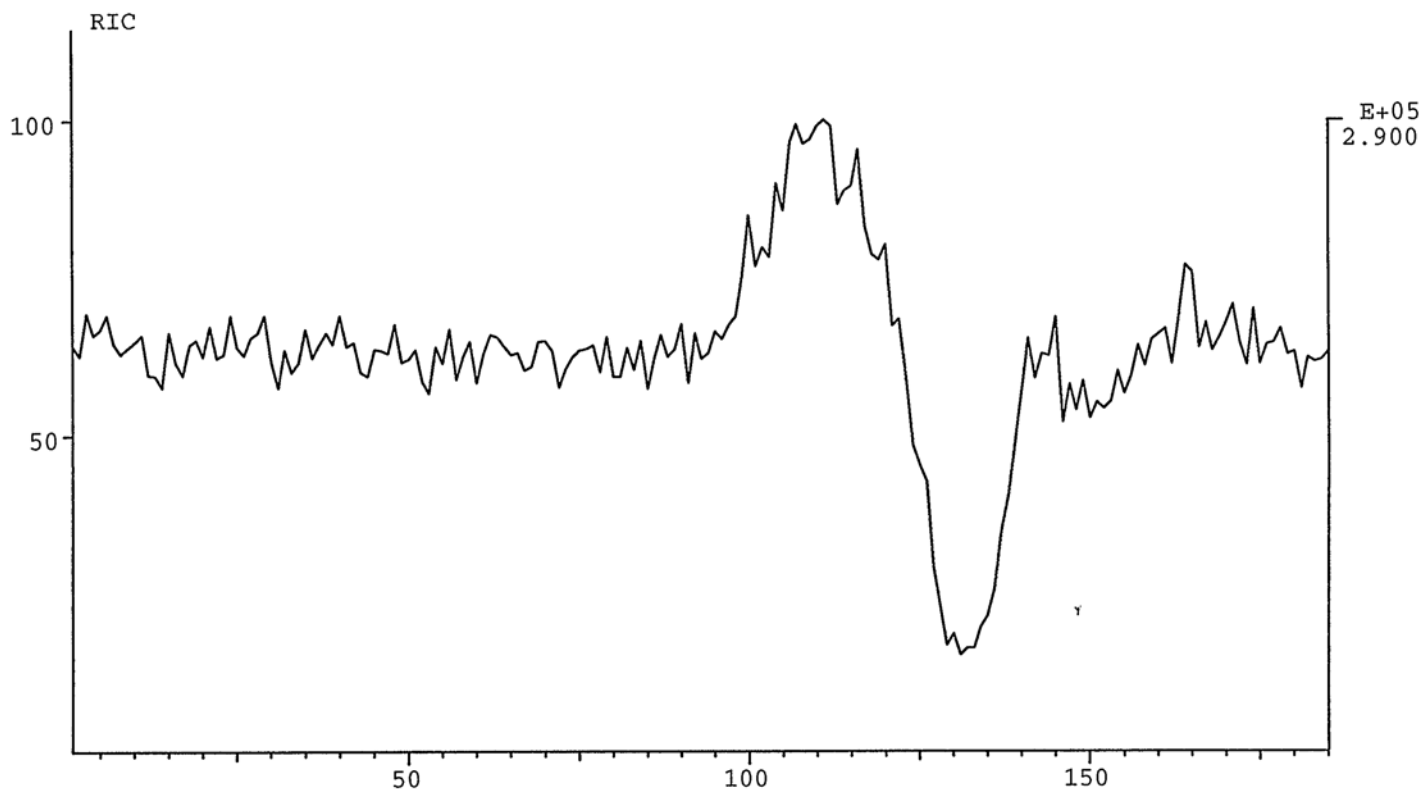


FBI(24-cv-1564)-3345

CHRO: edtanh3c
Samp: EDTA 10 NG IN 1 UL, DI-NA SALT
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 185
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

06-FEB-95 Elapse: 00:01:16.0 138
Start : 15:45:31 185
Inlet :
Masses: 280 > 350
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3346

SPEC: edtanh3c
Samp: EDTA 10 NG IN 1 UL, DI-NA SALT
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 310.9
Norm: 310.9
Peak: 1000.00 mmu
Data: +/99>121 - /78>92,124>138

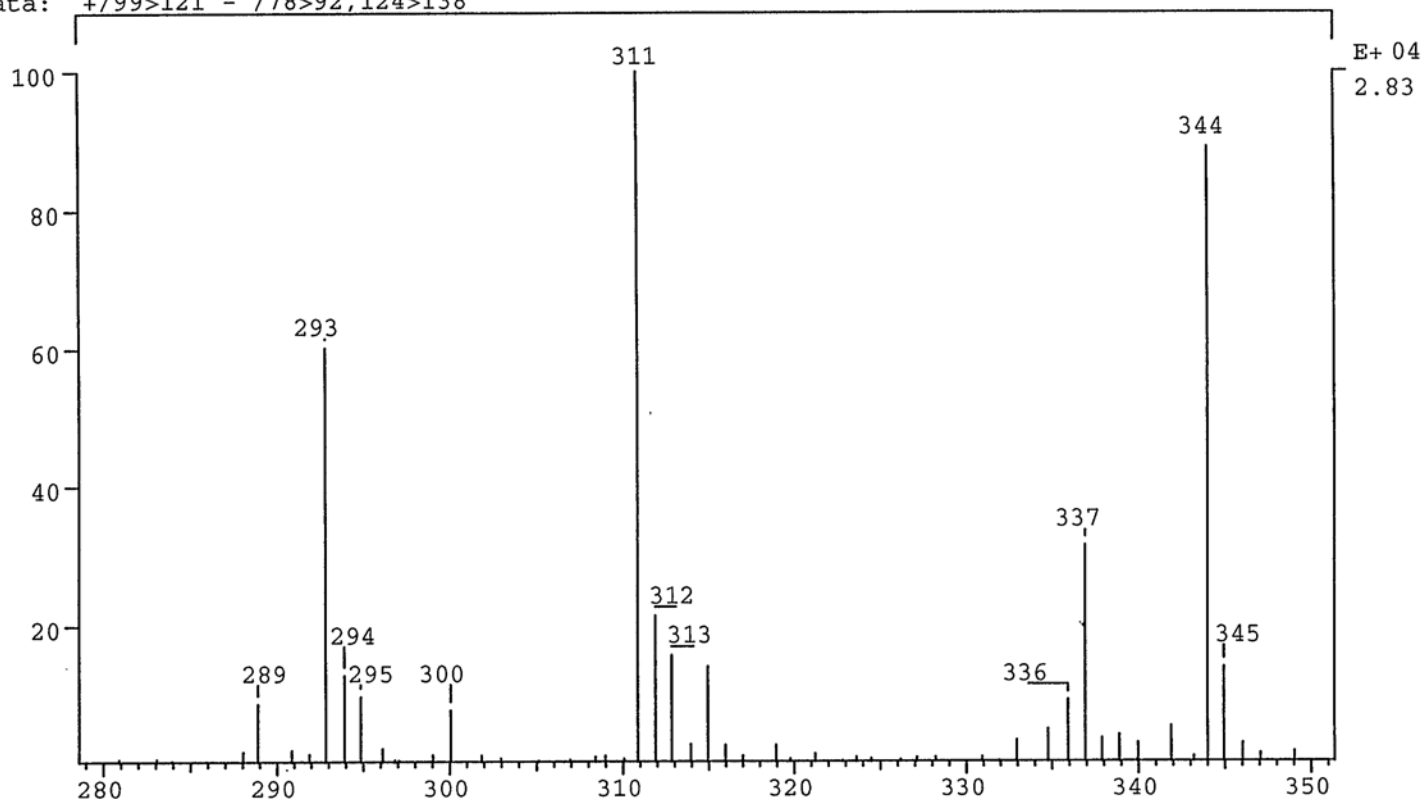
06-FEB-95

DERIVED SPECTRUM
Start : 15:45:31

9
185

Inlet :
Masses: 280 > 350
#peaks: 57

b6 -1
b7c -1

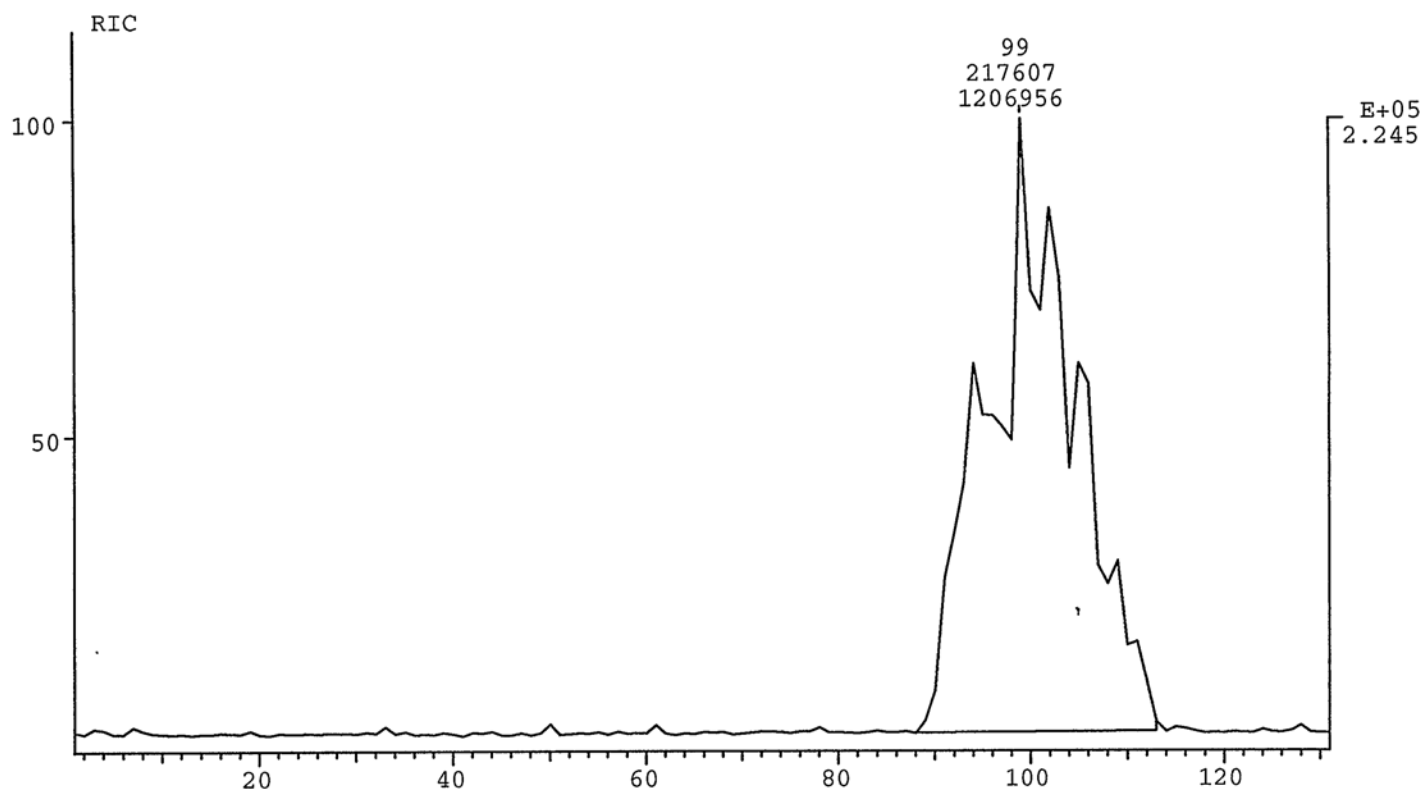


FBI(24-cv-1564)-3347

CHRO: stain1 08-FEB-95 Elapse: 00:01:10.2 127
Samp: BLOOD STAIN 1 DRIED/DILUTED, BM'S EXTR. Start : 16:41:35 131
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 131
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

Inlet :
Masses: 128 > 296
Label : 15, 40.00

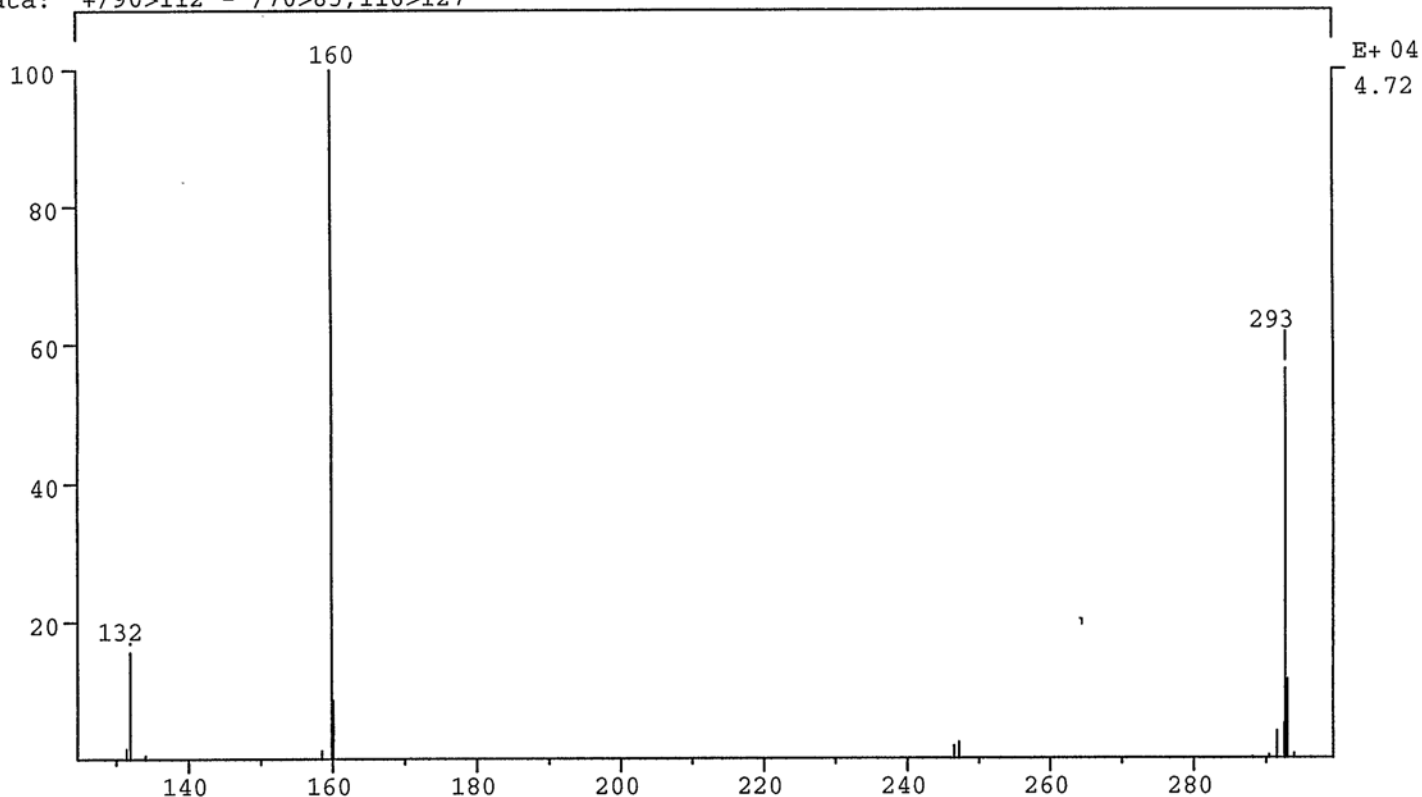
b6 -1
b7C -1



FBI(24-cv-1564)-3348

SPEC: stain1 08-FEB-95 DERIVED SPECTRUM 9
Samp: BLOOD STAIN 1 DRIED/DILUTED, BM'S EXTR. Start : 16:41:35 131
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper: Inlet :
Base: 159.8 Inten : 47229 Masses: 128 > 296
Norm: 159.8 RIC : 99669 #peaks: 125
Peak: 1000.00 mmu
Data: +/90>112 - /70>85,116>127

b6 -1
b7c -1



FBI(24-cv-1564)-3349

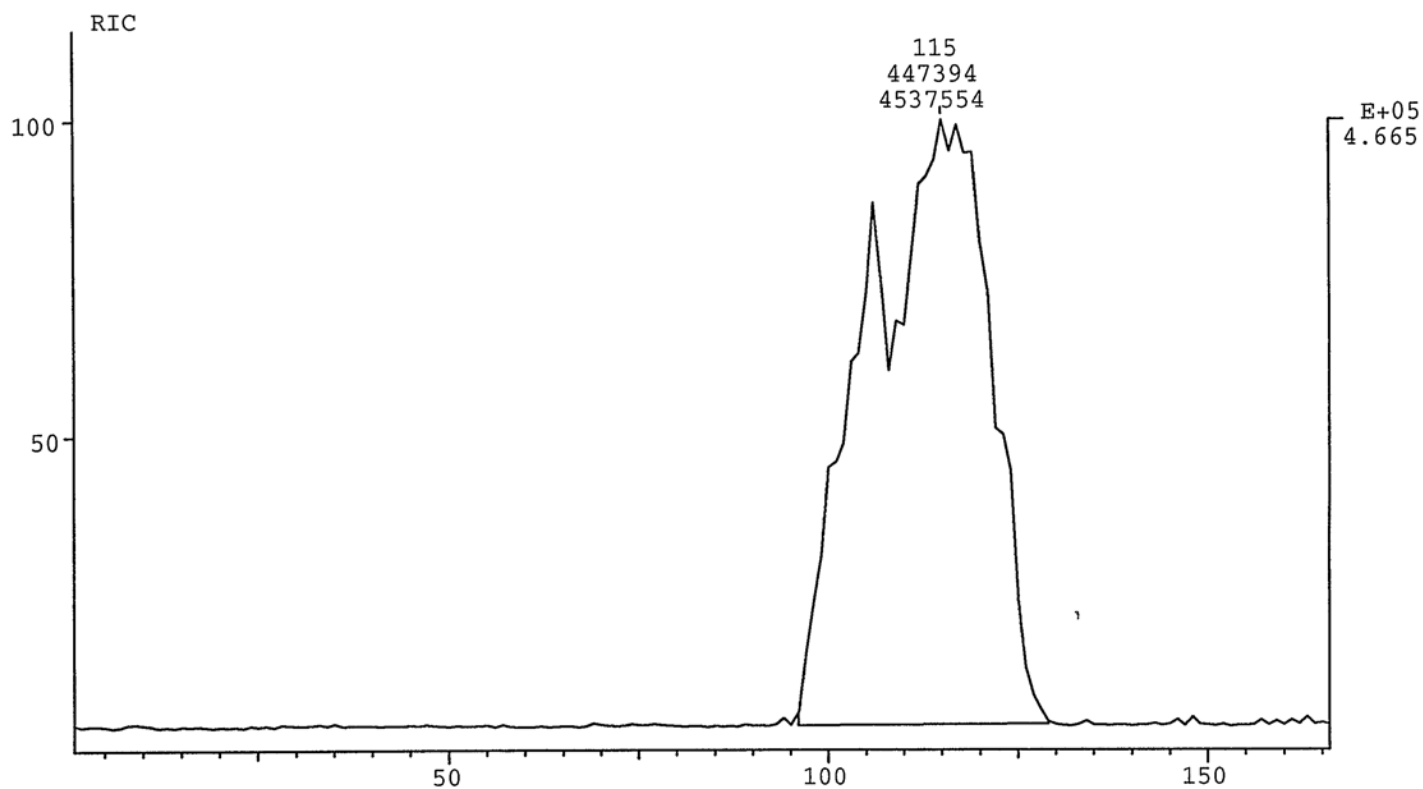
CHRO: stain10
Samp: BLOOD STAIN 10 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 166
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

07-FEB-95

Elapse: 00:01:26.9 158
Start : 15:00:45 166

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3350

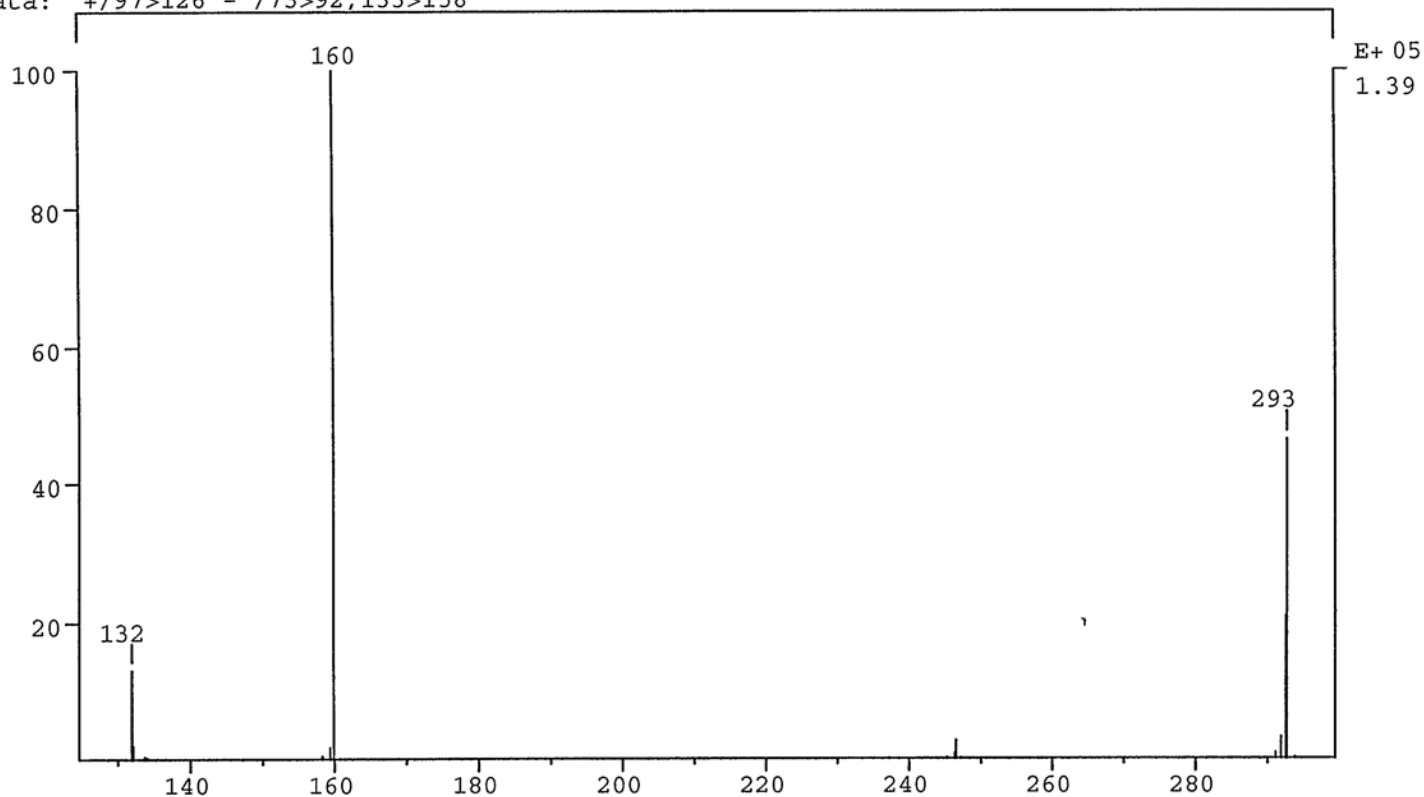
SPEC: stain10
Samp: BLOOD STAIN 10 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.9
Norm: 159.9
Peak: 1000.00 mmu
Data: +/97>126 - /73>92,133>158

07-FEB-95

DERIVED SPECTRUM 9
Start : 15:00:45 166

Inlet :
Masses: 128 > 296
#peaks: 140

b6 -1
b7c -1



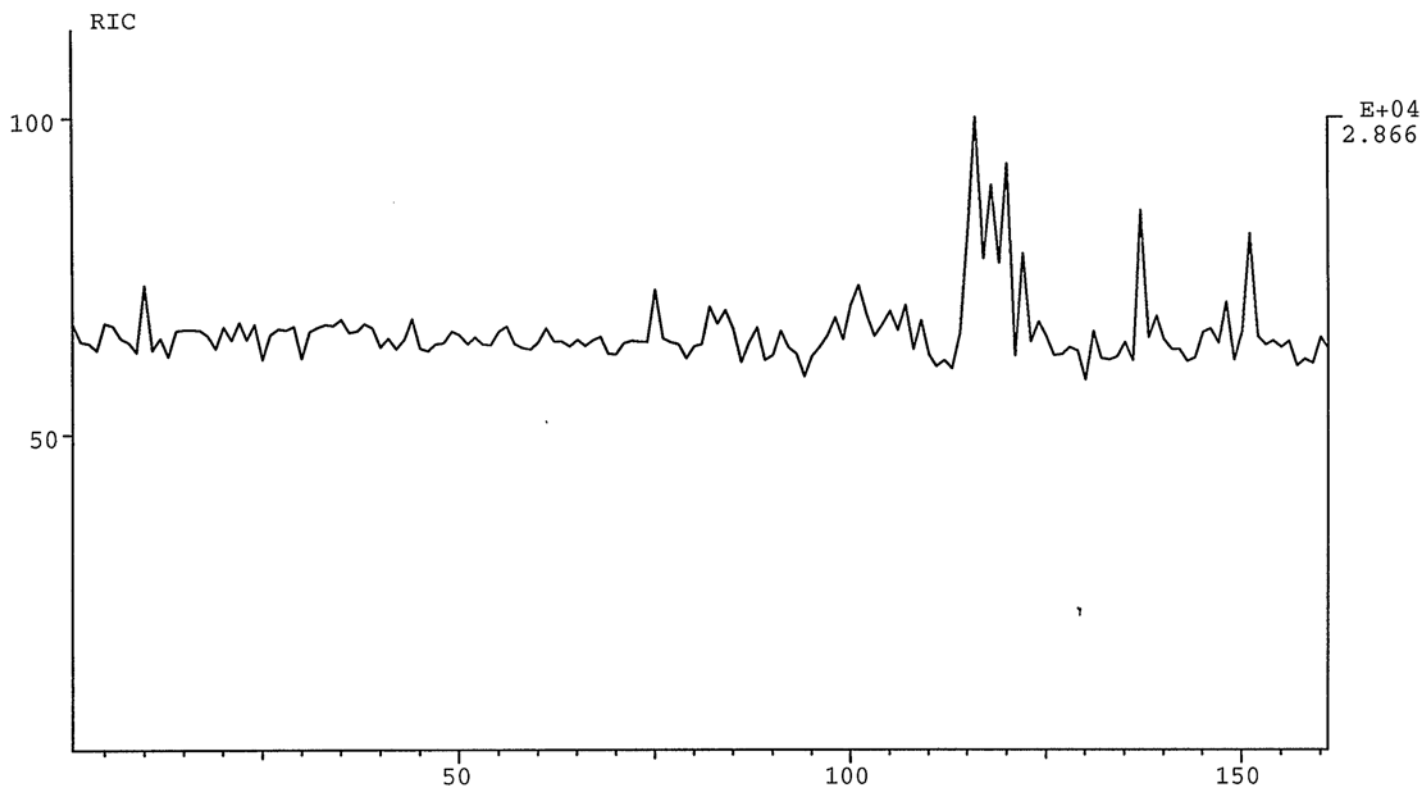
FBI(24-cv-1564)-3351

CHRO: stain11
Samp: BLOOD STAIN 11 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 161
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

07-FEB-95 Elapse: 00:01:15.3 136
Start : 15:10:05 161

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



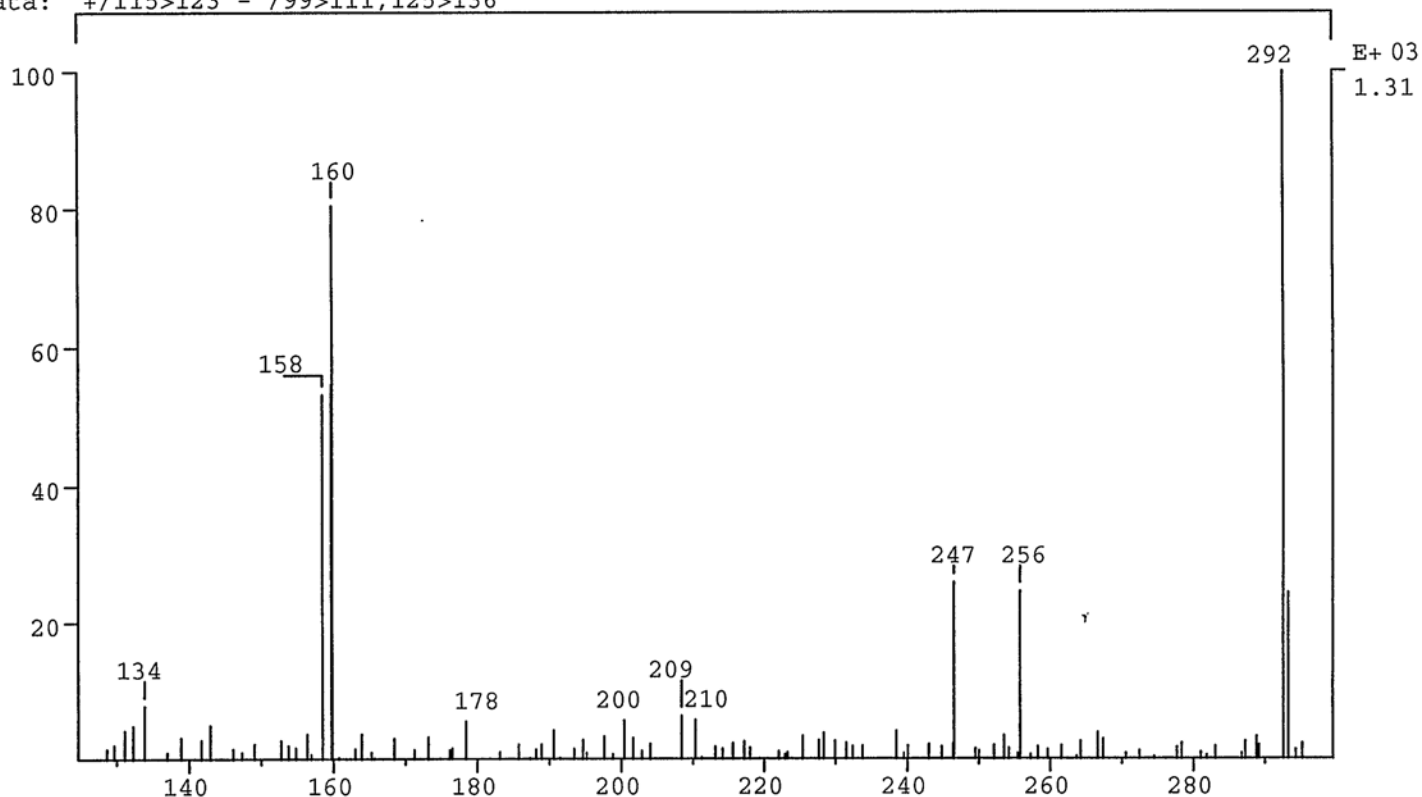
FBI(24-cv-1564)-3352

SPEC: stain11
Samp: BLOOD STAIN 11 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 292.4 Inten : 1310
Norm: 292.4 RIC : 7448
Peak: 1000.00 mmu
Data: +/115>123 - /99>111,125>136

07-FEB-95 DERIVED SPECTRUM 9
Start : 15:10:05 161

Inlet :
Masses: 128 > 296
#peaks: 111

b6 -1
b7c -1



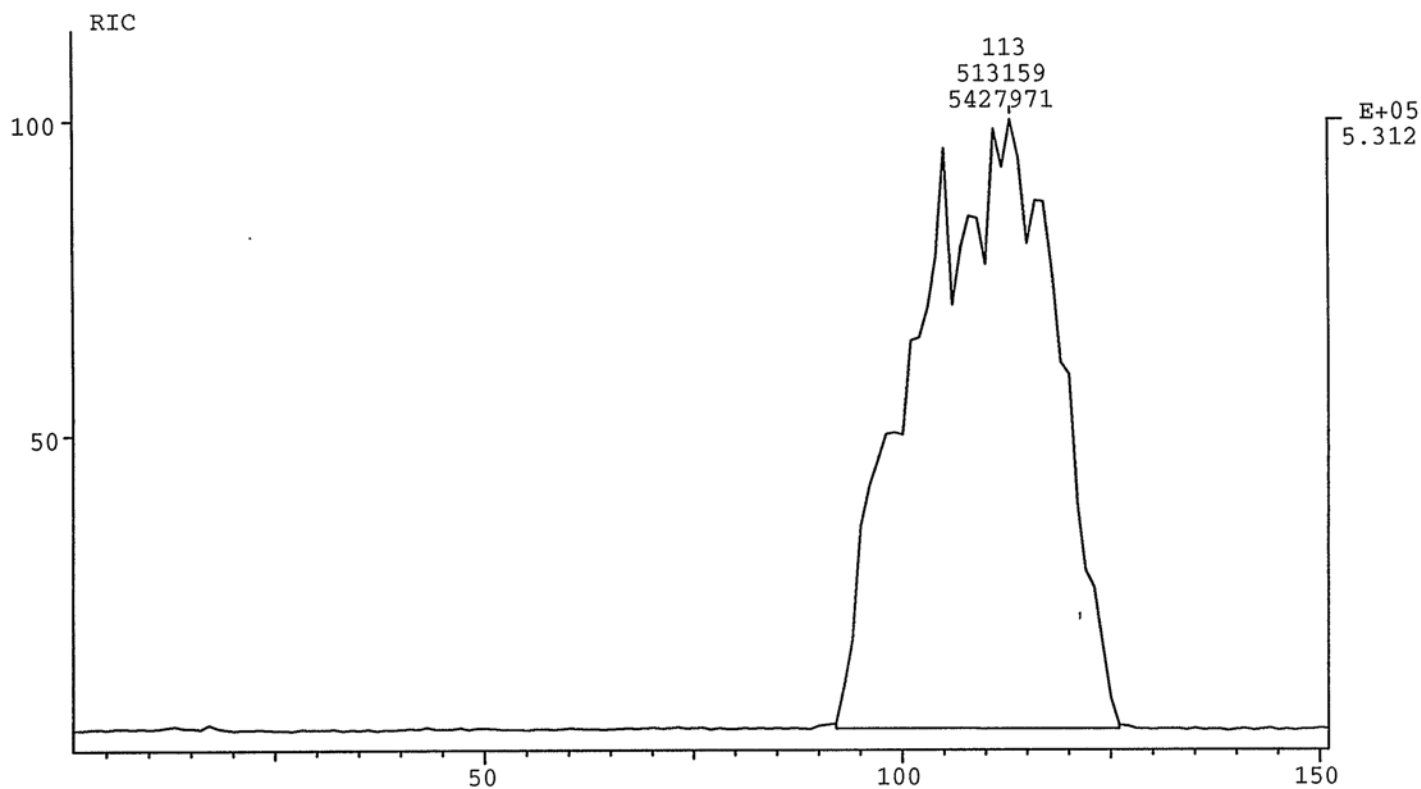
FBI(24-cv-1564)-3353

CHRO: stain12
Samp: BLOOD STAIN 12 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 151
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

07-FEB-95 Elapse: 00:01:19.9 145
Start : 15:19:36 151

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3354

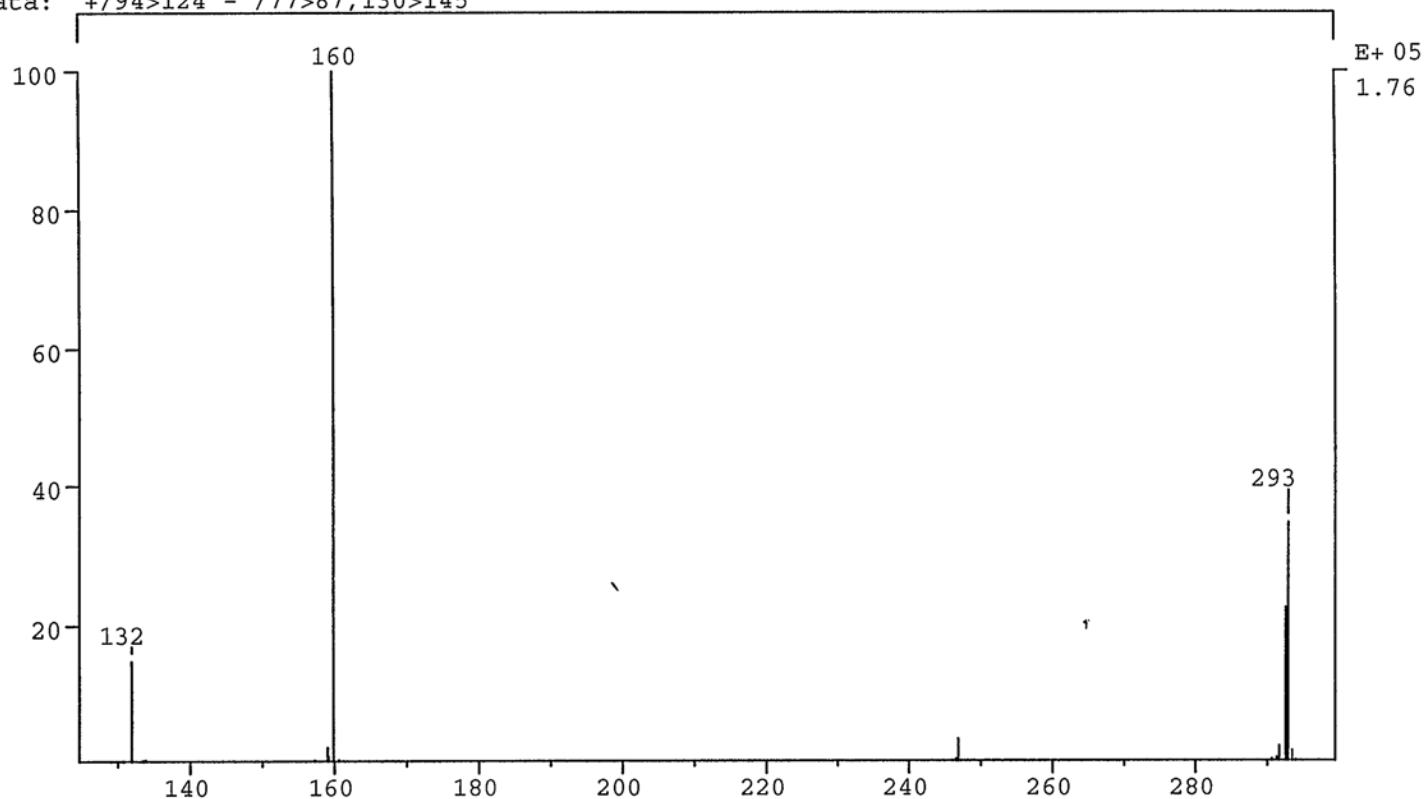
SPEC: stain12
Samp: BLOOD STAIN 12 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/94>124 - /77>87, 130>145

07-FEB-95

DERIVED SPECTRUM 9
Start : 15:19:36 151

Inlet :
Masses: 128 > 296
#peaks: 137

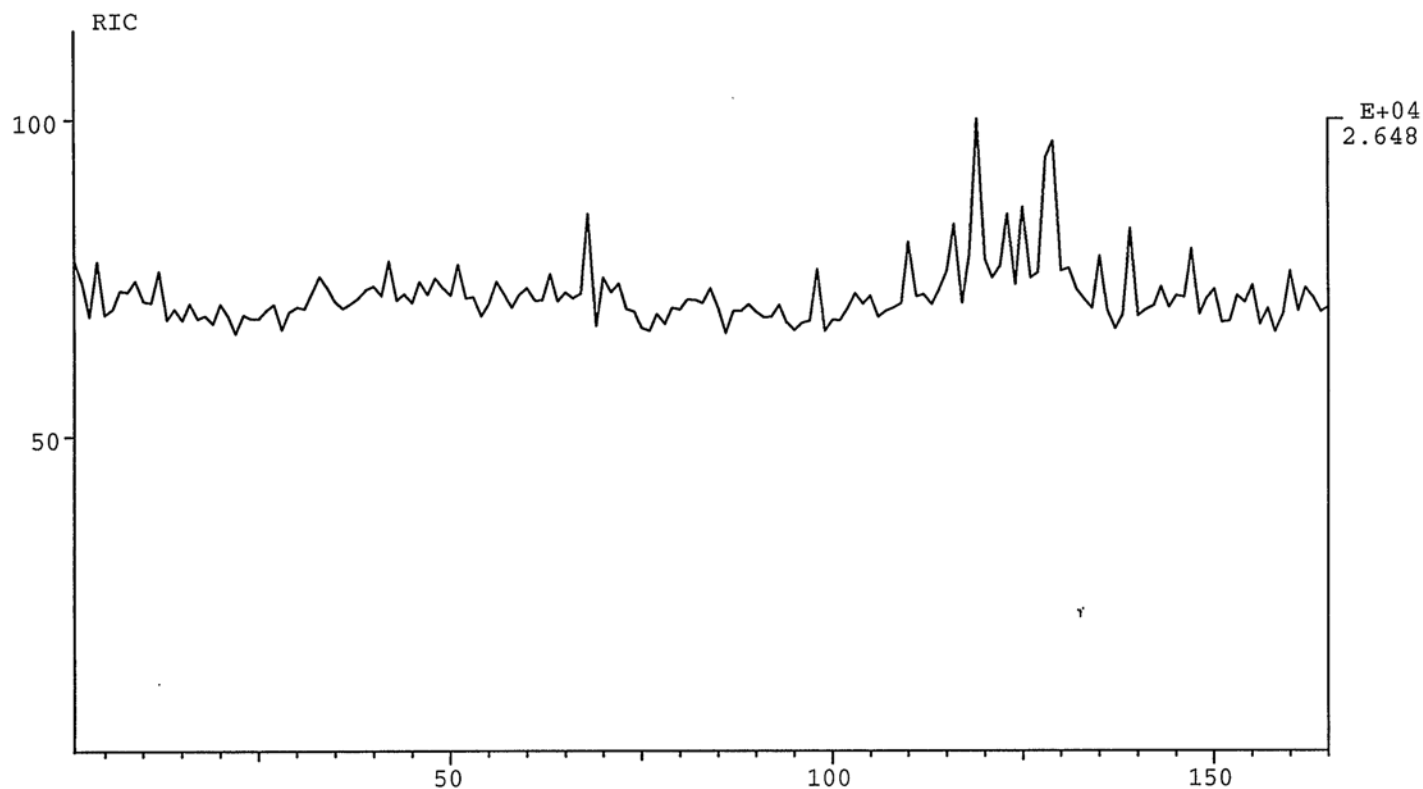
b6 -1
b7c -1



FBI(24-cv-1564)-3355

CHRO: stain12c 07-FEB-95 Elapse: 00:01:19.7 145
Samp: FABRIC FROM STAIN 12, BM'S EXTR. Start : 13:14:26 165
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 165 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

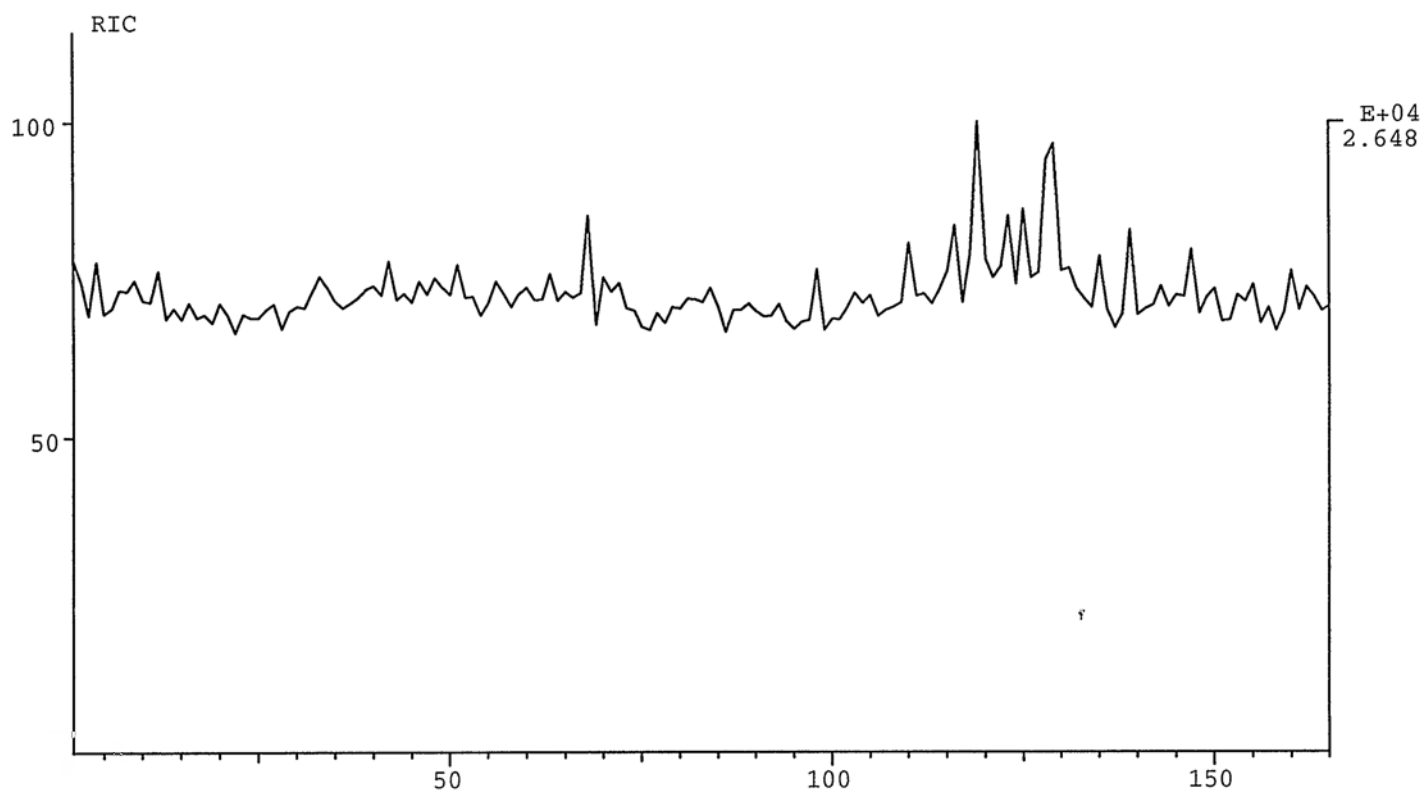
b6 -1
b7C -1



FBI(24-cv-1564)-3356

CHRO: stain12c 07-FEB-95 Elapse: 00:01:22.9 151
Samp: FABRIC FROM STAIN 12, BM'S EXTR. Start : 13:14:26 165
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 165 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3357

SPEC: stain12c
Samp: FABRIC FROM STAIN 12, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 292.6 Inten : 1343
Norm: 292.6 RIC : 5591
Peak: 1000.00 mmu
Data: +/116>130 - /88>106,141>151

07-FEB-95

DERIVED SPECTRUM

9

Start : 13:14:26

165

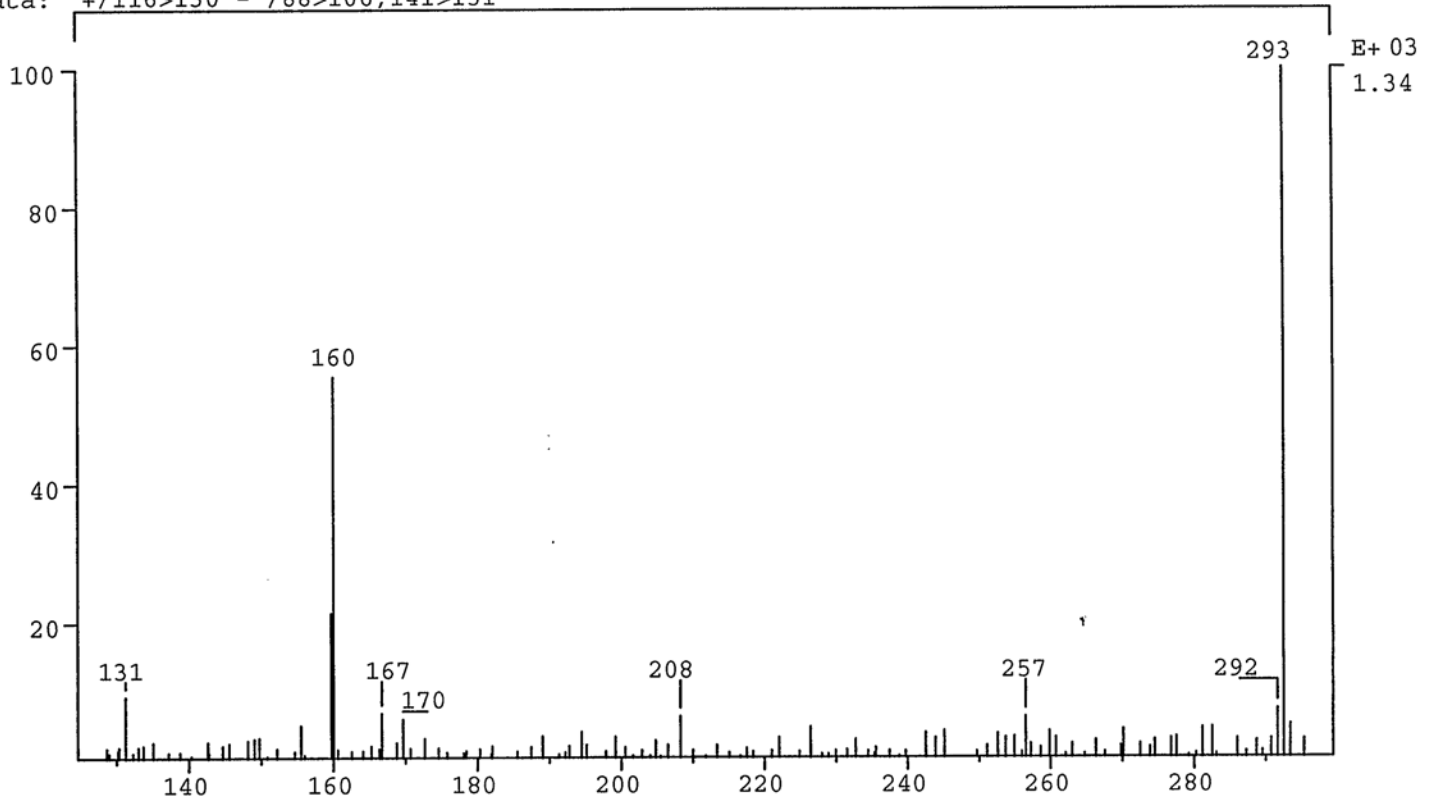
Inlet :

Masses: 128 > 296

#peaks: 131

b6 -1

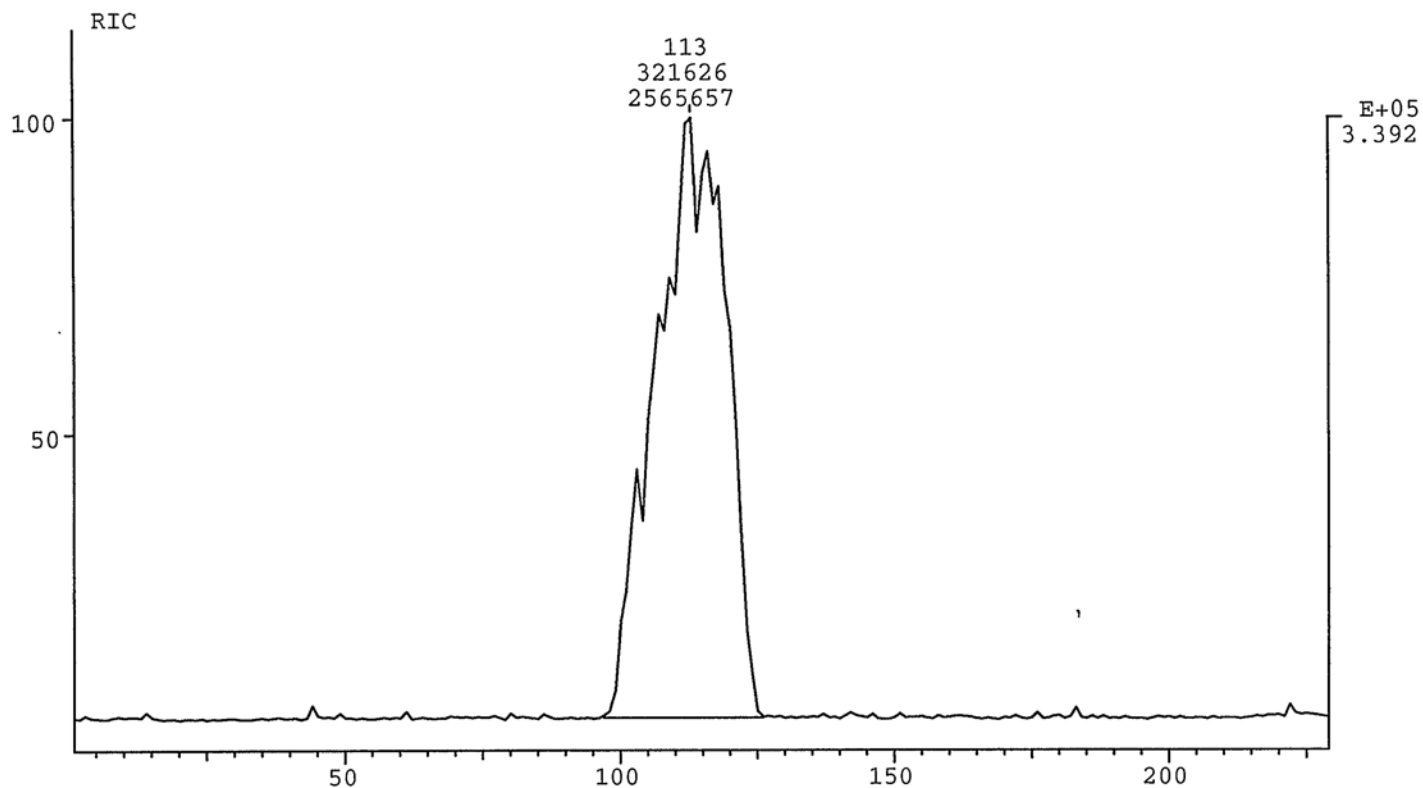
b7C -1



FBI(24-cv-1564)-3358

CHRO: stain13 07-FEB-95 Elapse: 00:01:24.9 154
Samp: BLOOD STAIN 13 DRIED/DILUTED,BM'S EXTR. Start : 15:34:28 229
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 229 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

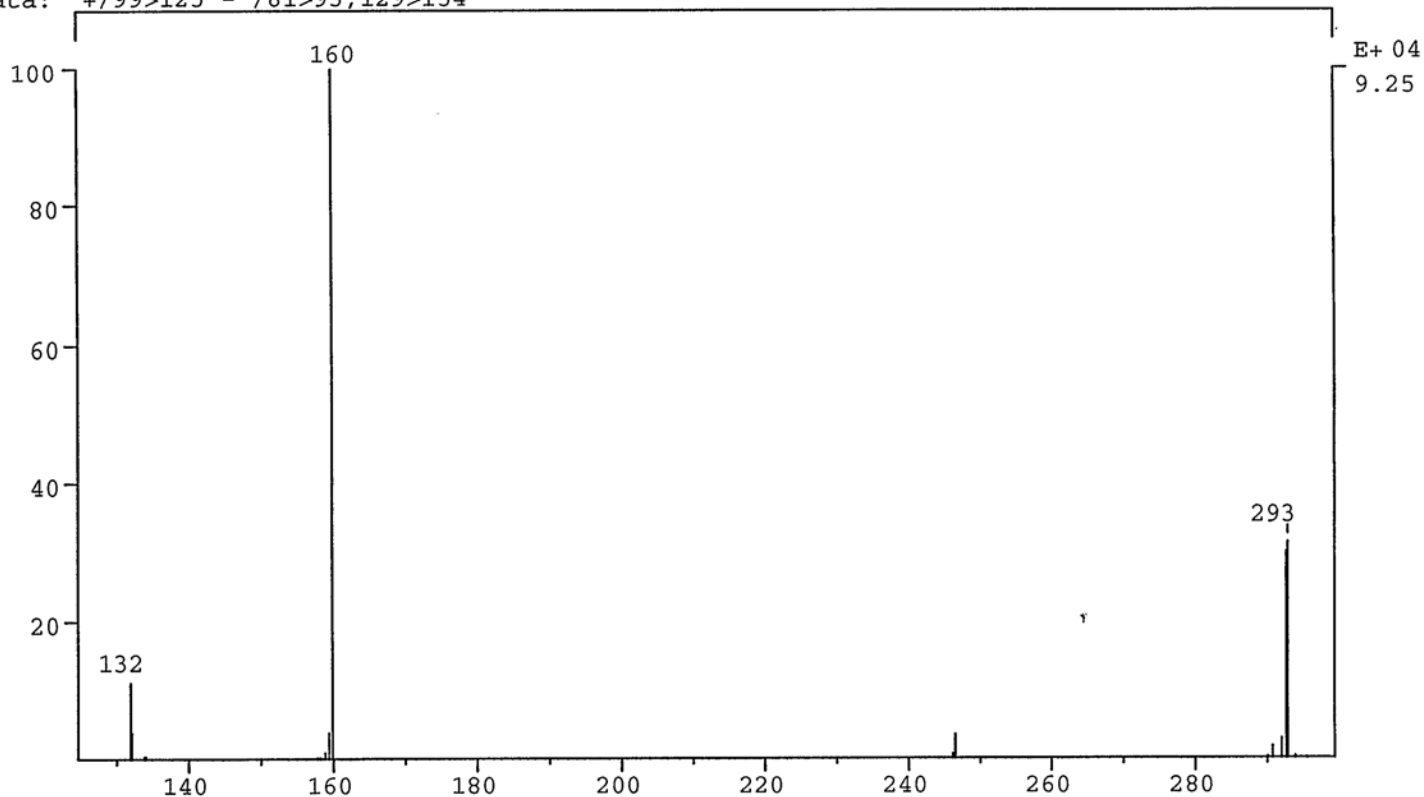
b6 -1
b7c -1



FBI(24-cv-1564)-3359

SPEC: stain13 07-FEB-95 DERIVED SPECTRUM 9
Samp: BLOOD STAIN 13 DRIED/DILUTED, BM'S EXTR. Start : 15:34:28 229
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8 Inten : 92525 Inlet :
Norm: 159.8 RIC : 179775 Masses: 128 > 296
Peak: 1000.00 mmu #peaks: 141
Data: +/99>125 - /81>93,129>154

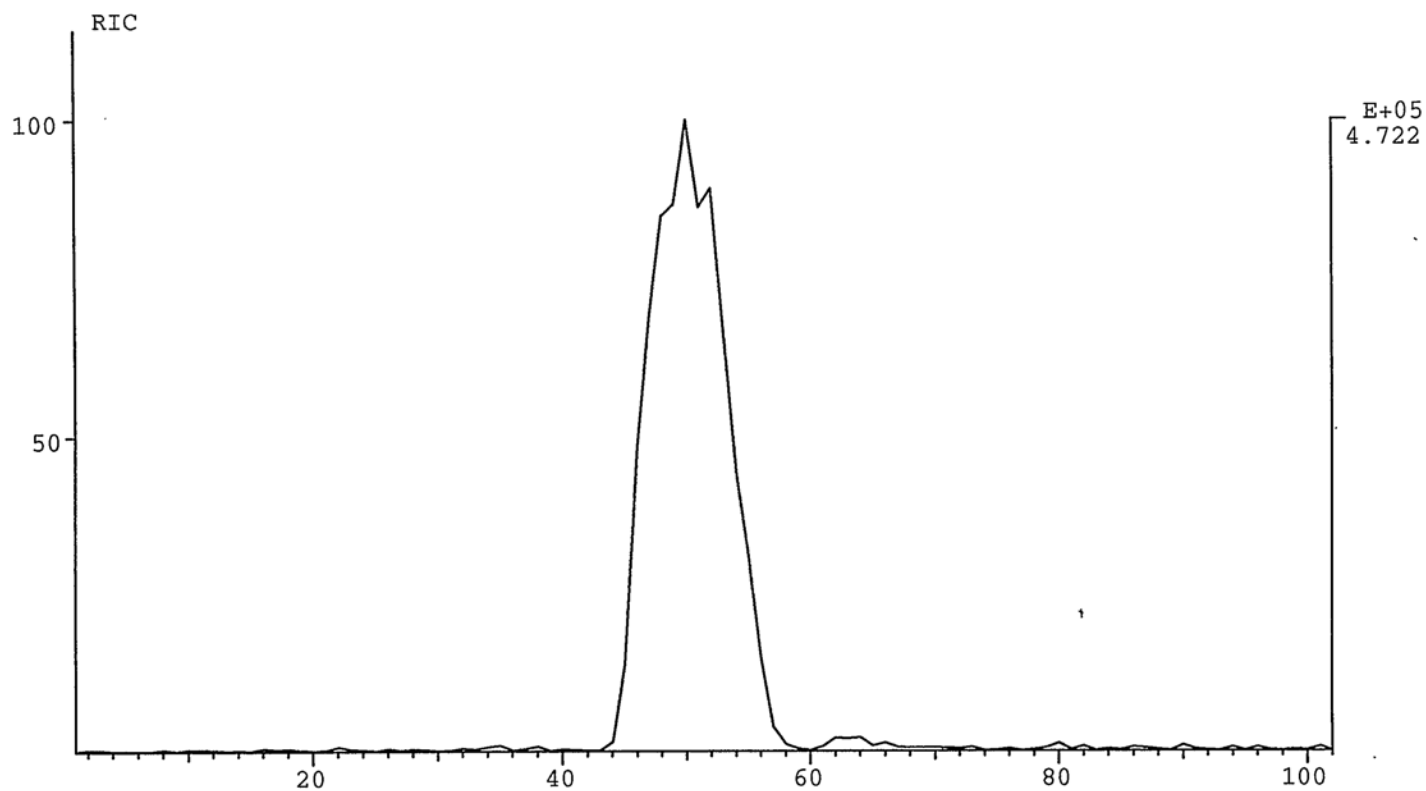
b6 -1
b7C -1



FBI(24-cv-1564)-3360

CHRO: stain13a 10-FEB-95 Elapse: 00:01:23.3 78
Samp: BLOOD STAIN 13,45MIN H2O EXT.MC-FILTER Start : 16:27:01 102
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper: ☐
Peak: 1000.00 mmu Label wndw: 1 > 102 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

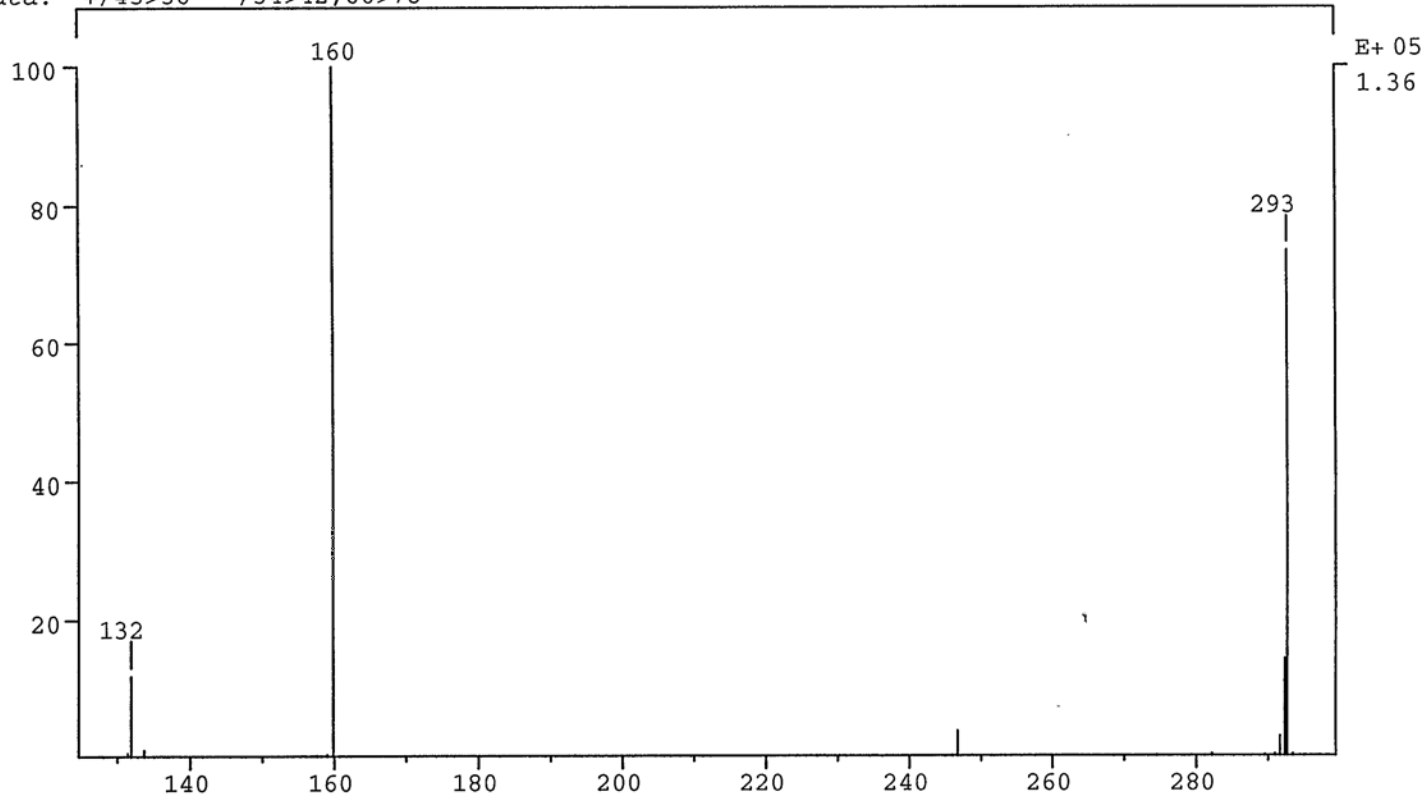
b6 -1
b7C -1



FBI(24-cv-1564)-3361

SPEC: stain13a 10-FEB-95 DERIVED SPECTRUM 9
Samp: BLOOD STAIN 13,45MIN H2O EXT.MC-FILTER Start : 16:27:01 102
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8 Inten : 136455 Inlet :
Norm: 159.8 RIC : 286921 Masses: 128 > 296
Peak: 1000.00 mmu #peaks: 173
Data: +/45>56 - /34>42,60>78

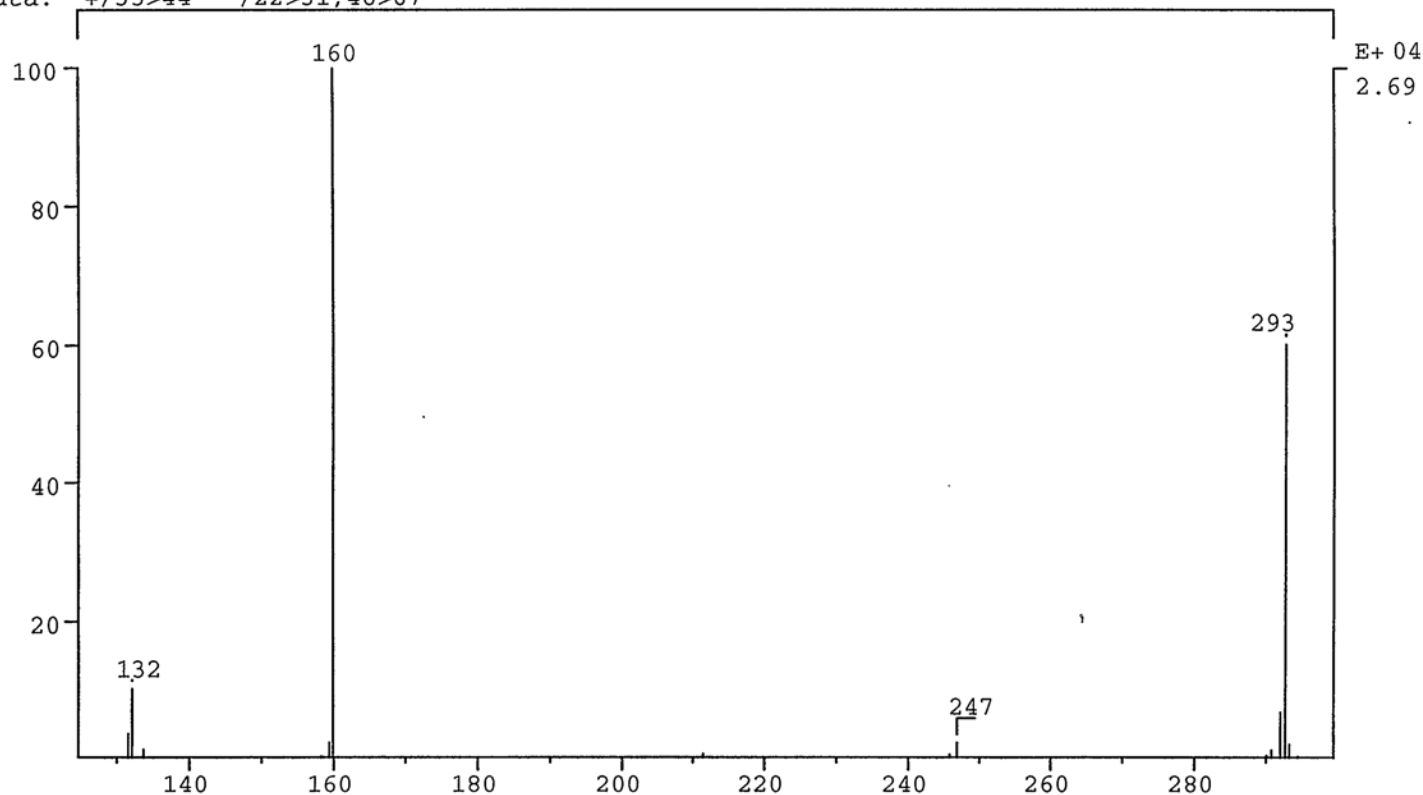
b6 -1
b7C -1



FBI(24-cv-1564)-3362

SPEC: stain13b 13-FEB-95 DERIVED SPECTRUM 9
Samp: BLOOD STAIN 13, 2ND H2O EXT.MC-FILTER Start : 13:26:12 96
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8 Inten : 26923 Inlet :
Norm: 159.8 RIC : 51909 Masses: 128 > 296
Peak: 1000.00 mmu #peaks: 174
Data: +/35>44 - /22>31,48>67

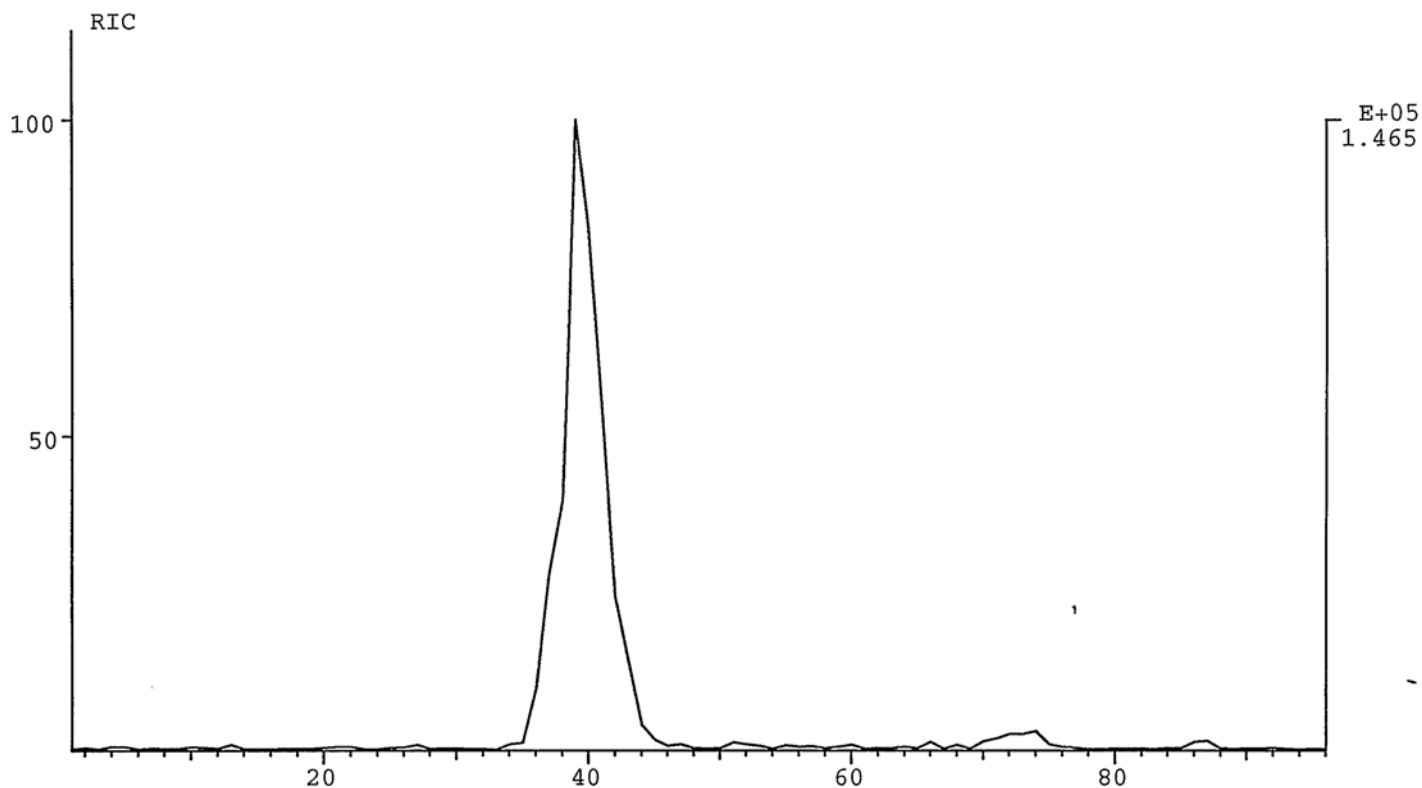
b6 -1
b7c -1



FBI(24-cv-1564)-3363

CHRO: stain13b 13-FEB-95 Elapse: 00:01:11.9 67
Samp: BLOOD STAIN 13, 2ND H2O EXT.MC-FILTER Start : 13:26:12 96
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper: ☐
Peak: 1000.00 mmu Label wndw: 1 > 96 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3364

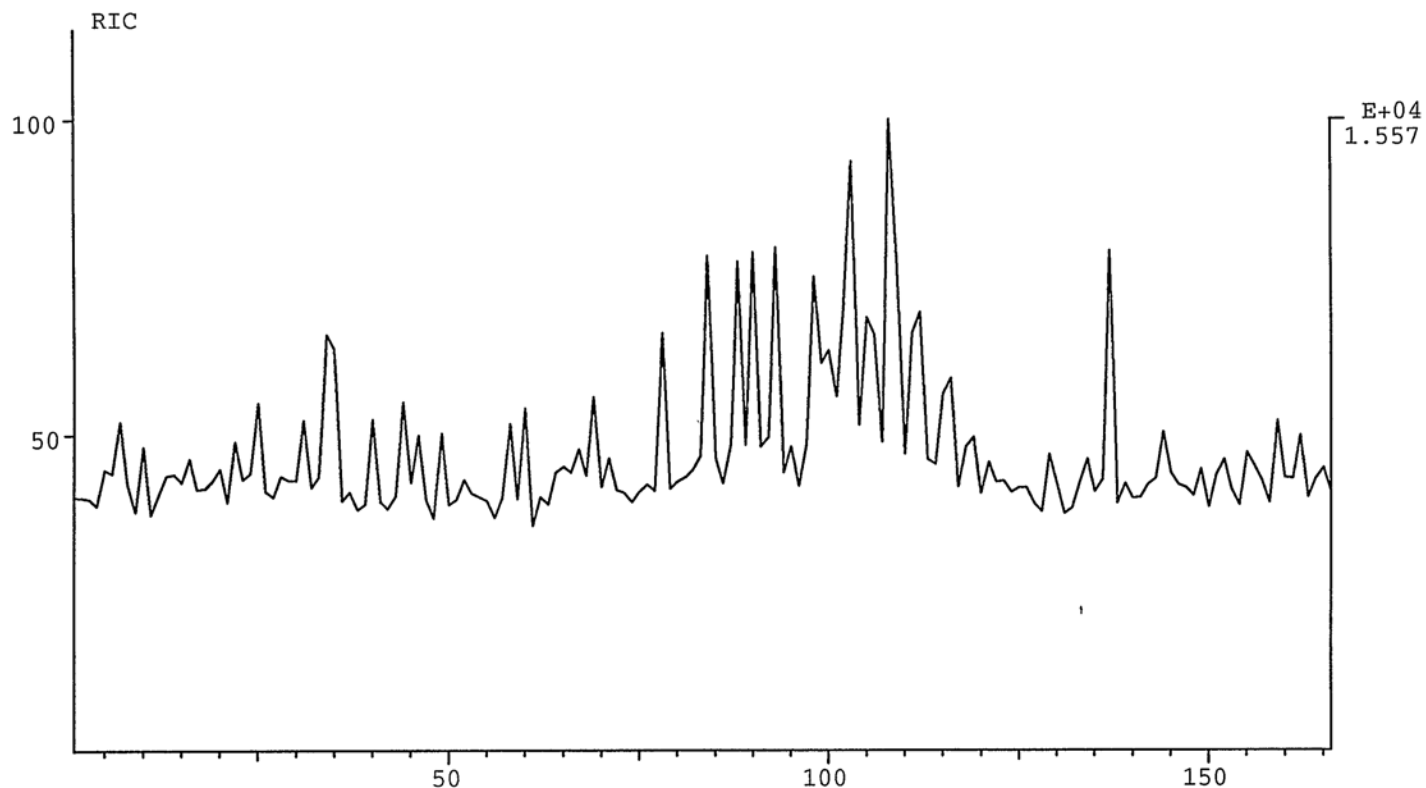
CHRO: stain14
Samp: blood stain 14 diluted, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

08-FEB-95

Elapse: 00:01:21.4 148
Start : 15:37:14 166

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



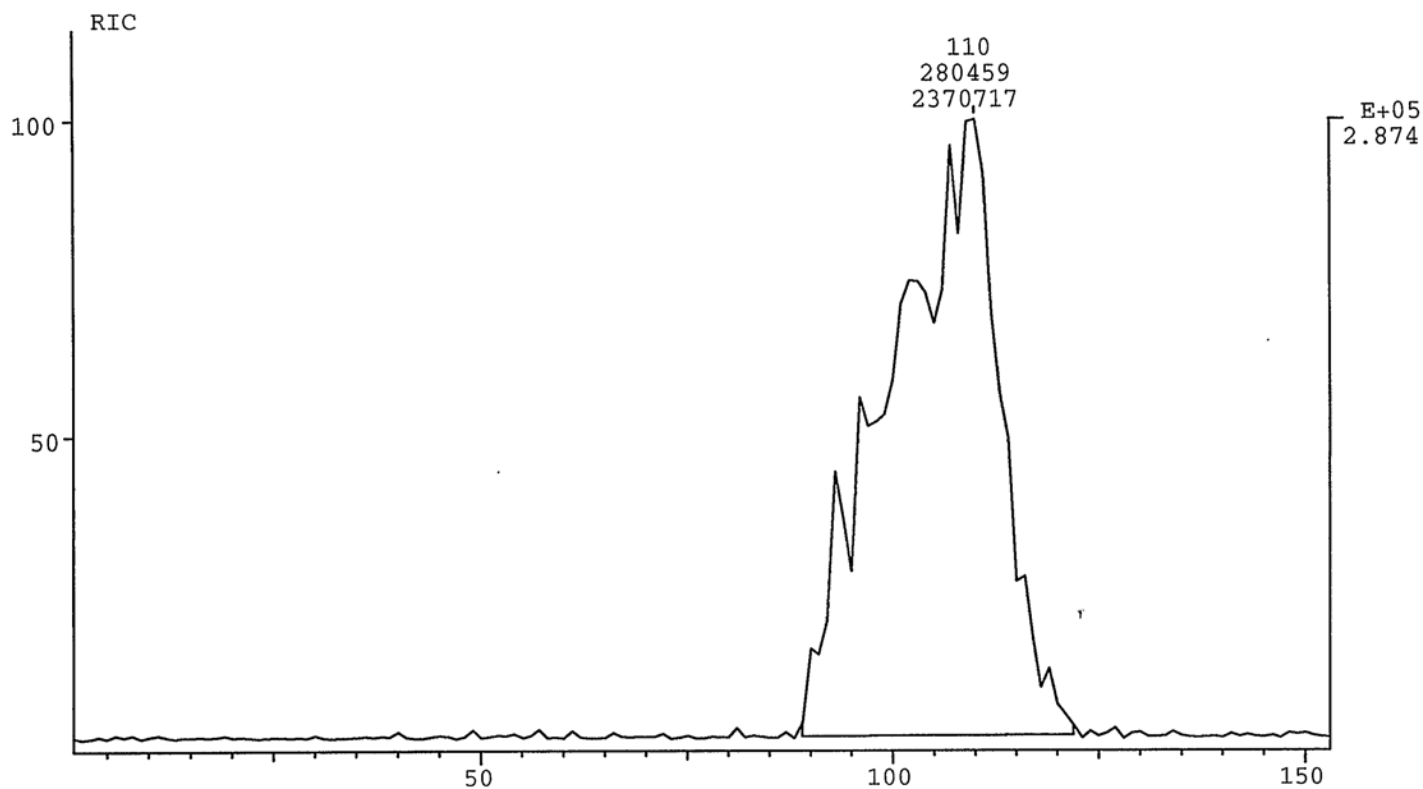
FBI(24-cv-1564)-3365

CHRO: stain15
Samp: blood stain 15 diluted, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 153
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

08-FEB-95 Elapse: 00:01:20.1 146
Start : 15:48:21 153

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3366

SPEC: stain15
Samp: blood stain 15 diluted, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/92>117 - /69>85, 126>146

08-FEB-95

DERIVED SPECTRUM

9

Start : 15:48:21

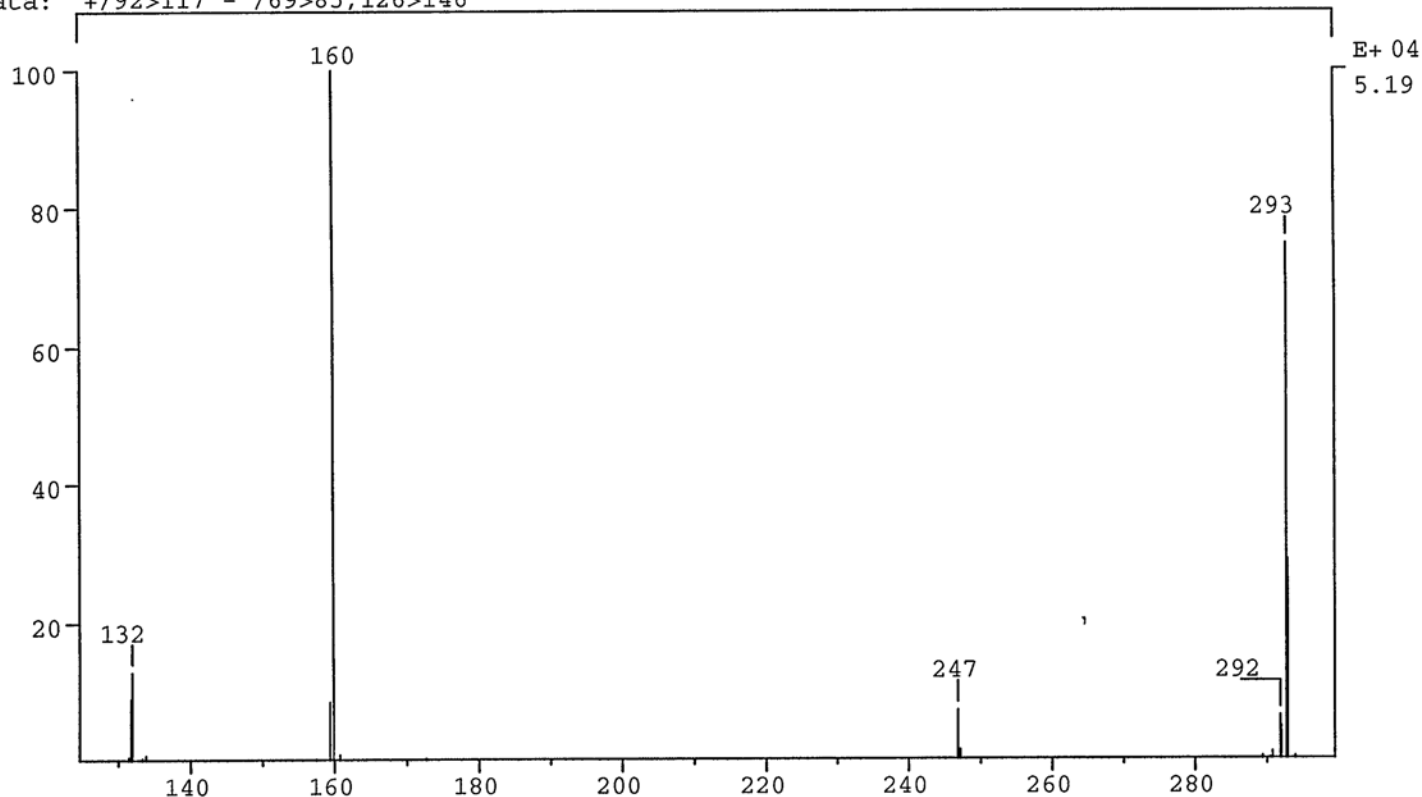
153

Inlet :

Masses: 128 > 296

#peaks: 135

b6 -1
b7C -1



FBI(24-cv-1564)-3367

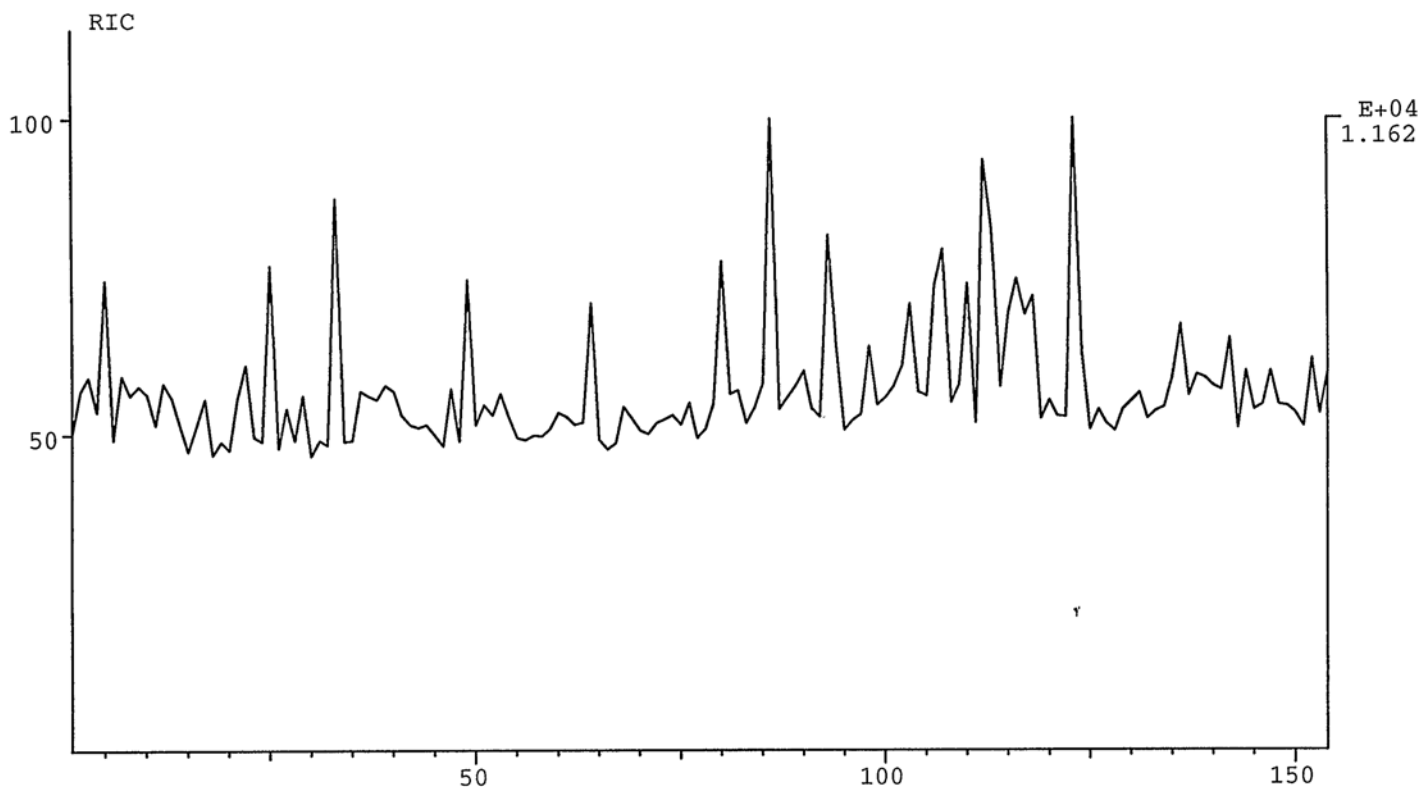
CHRO: stain16
Samp: BLOOD STAIN 16 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 154
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

08-FEB-95

Elapse: 00:01:20.8 146
Start : 15:58:04 154

Inlet :
Masses: 128 > 296
Label : 15, 40.00

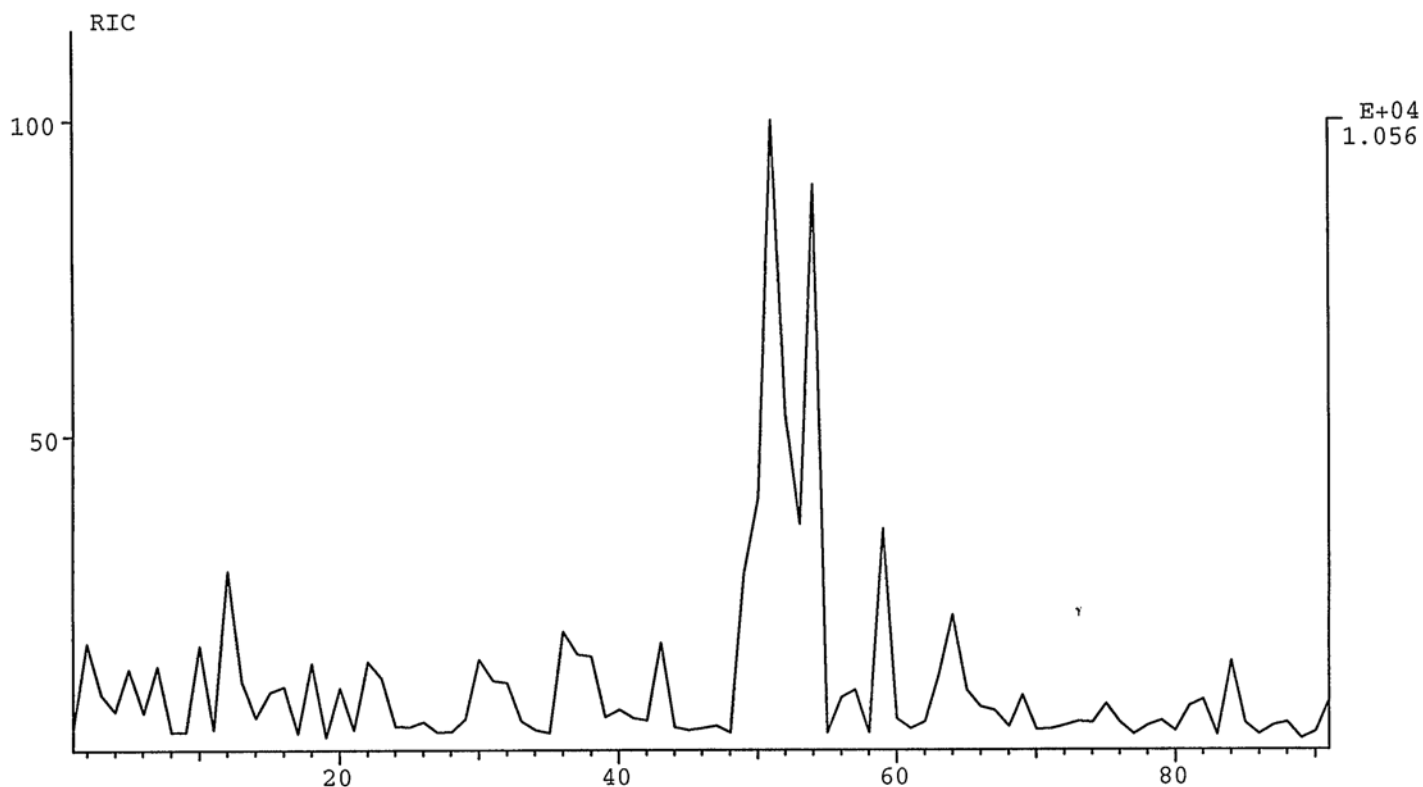
b6 -1
b7C -1



FBI(24-cv-1564)-3368

CHRO: stain16a 10-FEB-95 Elapse: 00:01:25.9 81
Samp: BLOOD STAIN 16,45MIN H2O EXT.MC-FILTER Start : 16:31:03 91
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU LMR GAS UP LR
Oper: ☐
Peak: 1000.00 mmu Label wndw: 1 > 91 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3369

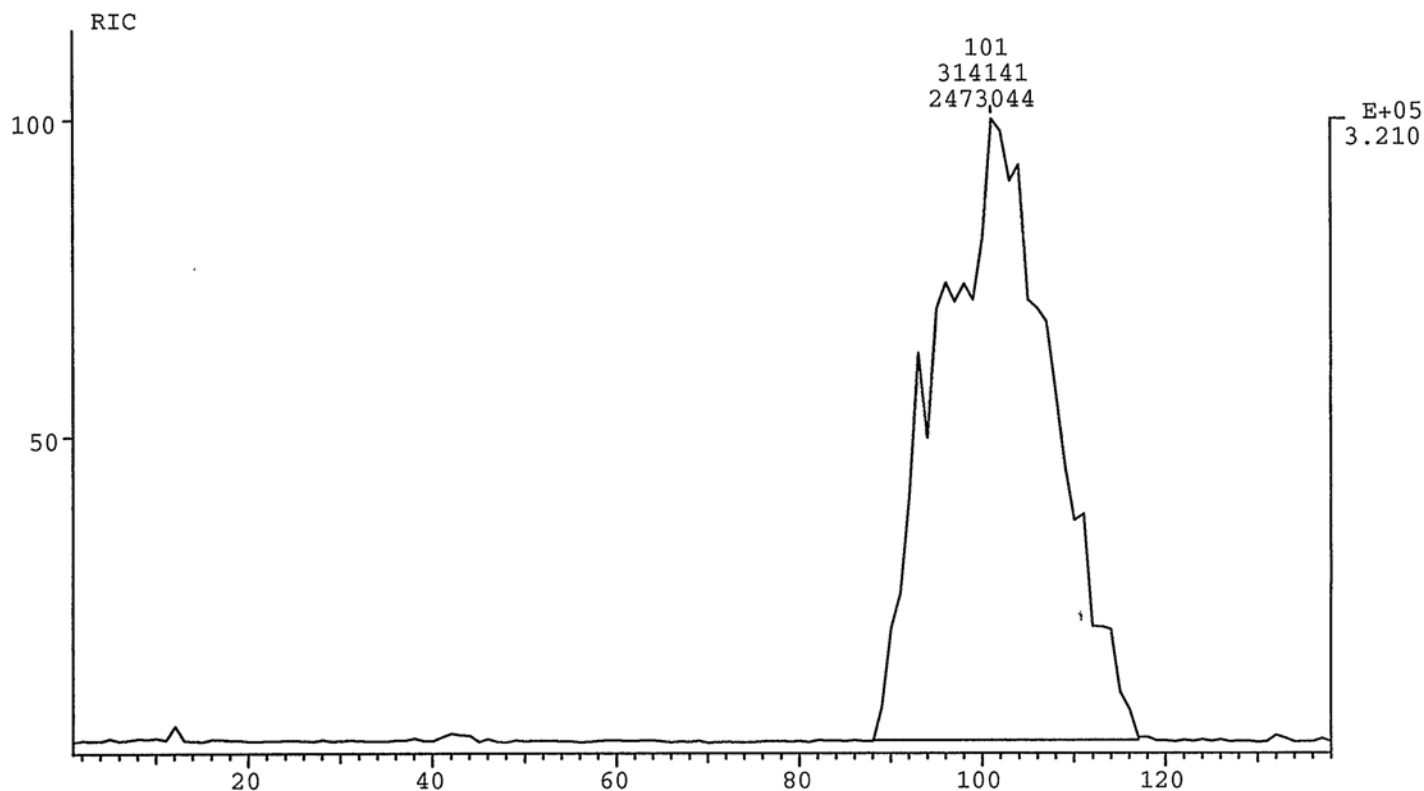
CHRO: stain17
Samp: BLOOD STAIN 17 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 138
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

08-FEB-95

Elapse: 00:01:15.6 137
Start : 16:05:24 138

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3370

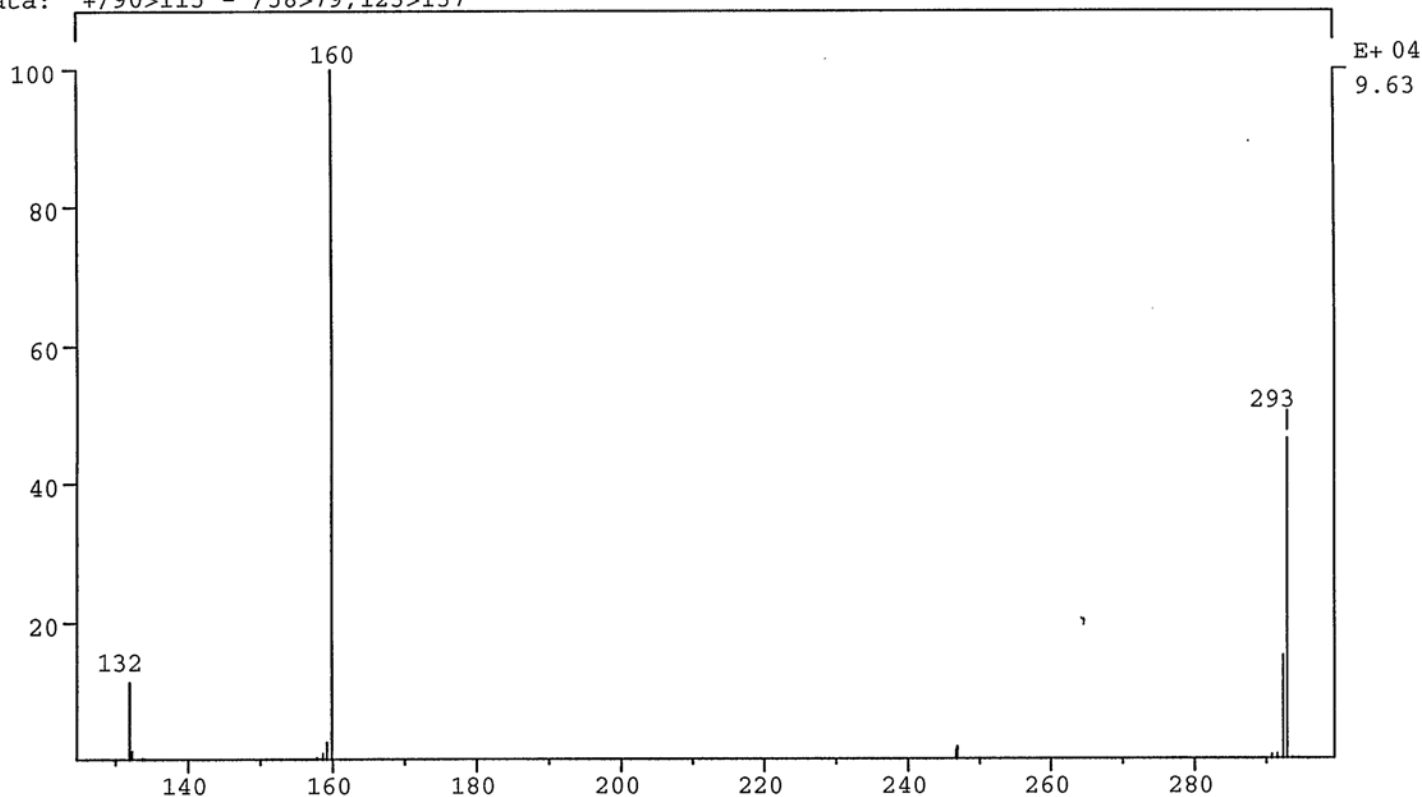
SPEC: stain17
Samp: BLOOD STAIN 17 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/90>115 - /58>79, 123>137

08-FEB-95

DERIVED SPECTRUM 9
Start : 16:05:24 138

Inlet :
Masses: 128 > 296
#peaks: 152

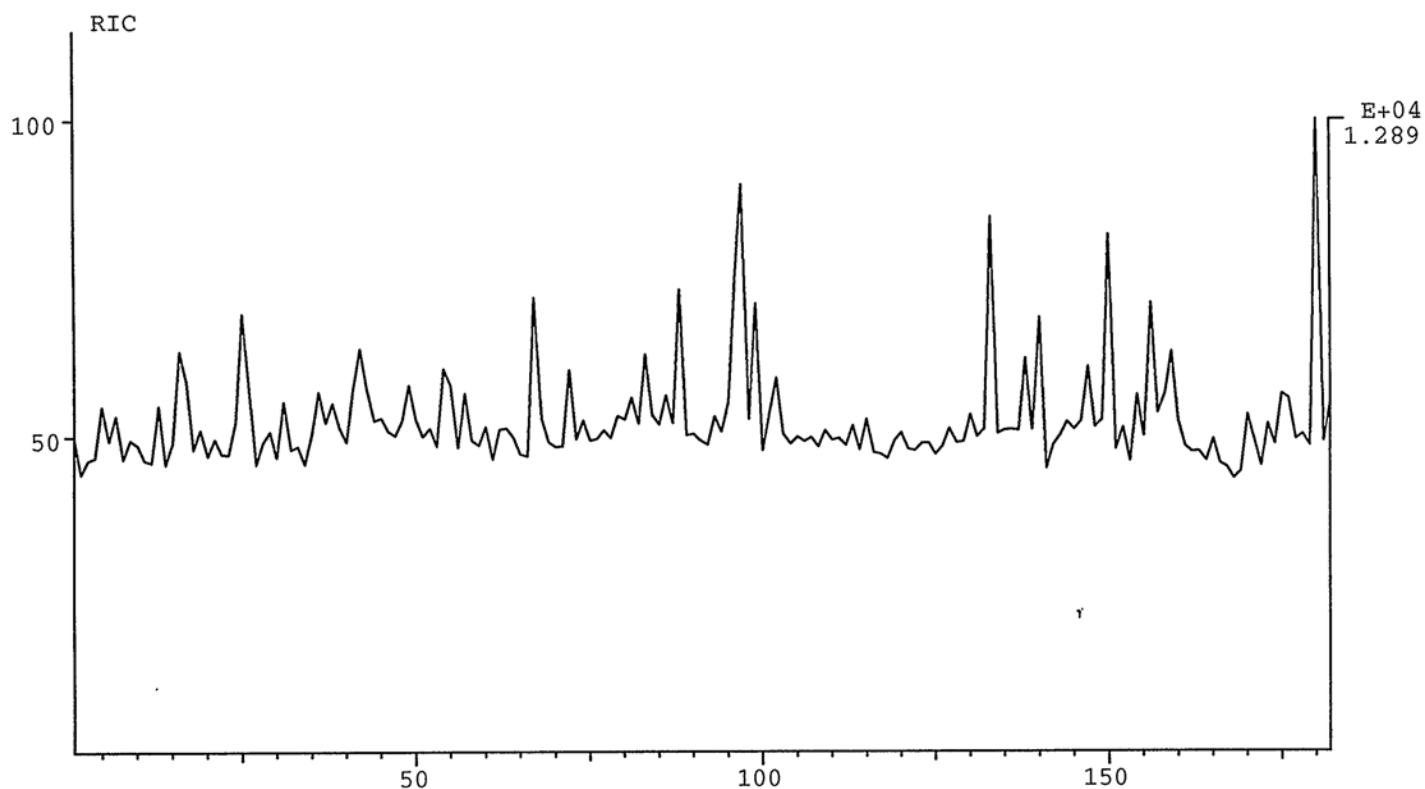
b6 -1
b7c -1



FBI(24-cv-1564)-3371

CHRO: stain18 08-FEB-95 Elapse: 00:01:15.8 137
Samp: BLOOD STAIN 18 DRIED/DILUTED, BM'S EXTR. Start : 16:11:23 182
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper: ☐
Peak: 1000.00 mmu Label wndw: 1 > 182 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3372

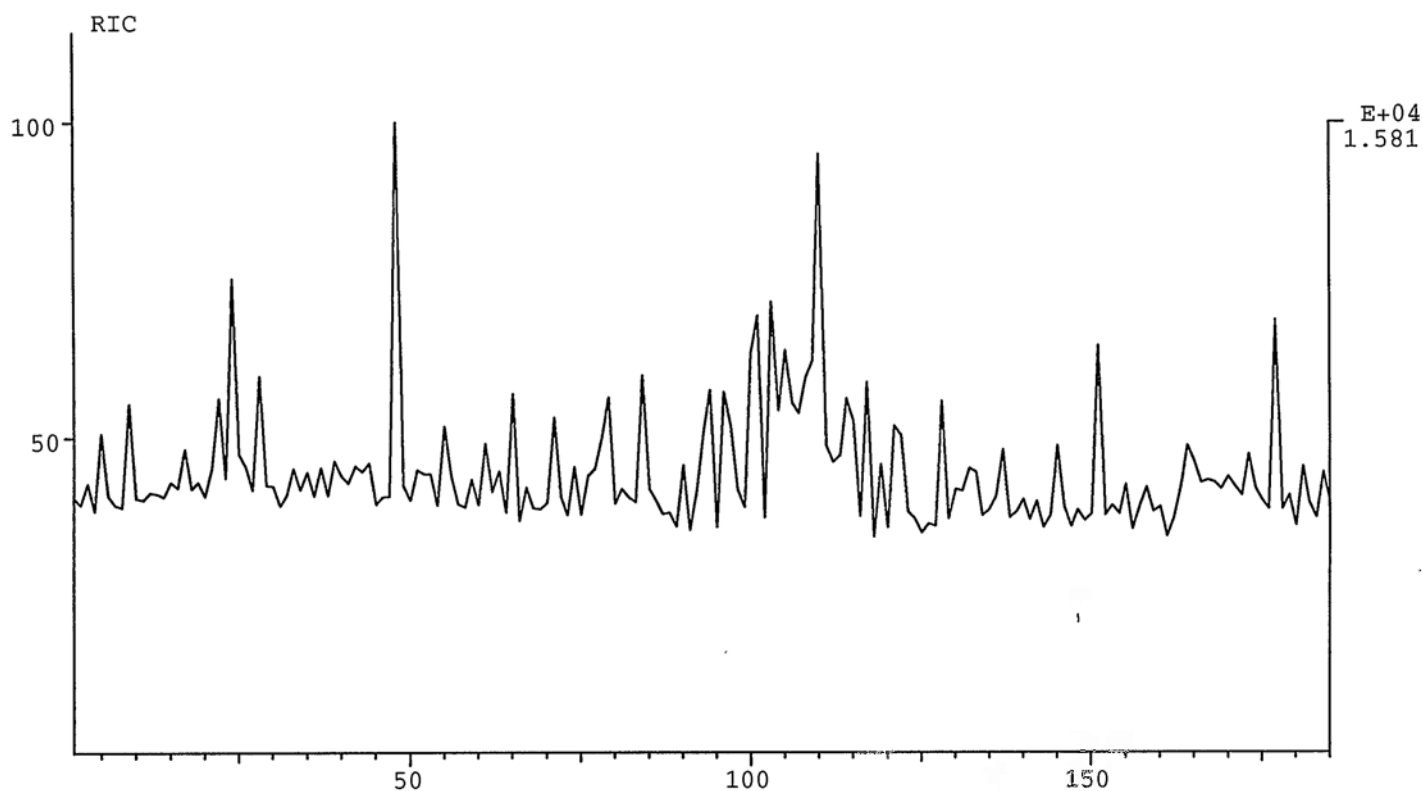
CHRO: stain19
Samp: BLOOD STAIN 19 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 185
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

08-FEB-95

Elapse: 00:01:15.4 137
Start : 16:21:19 185

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1

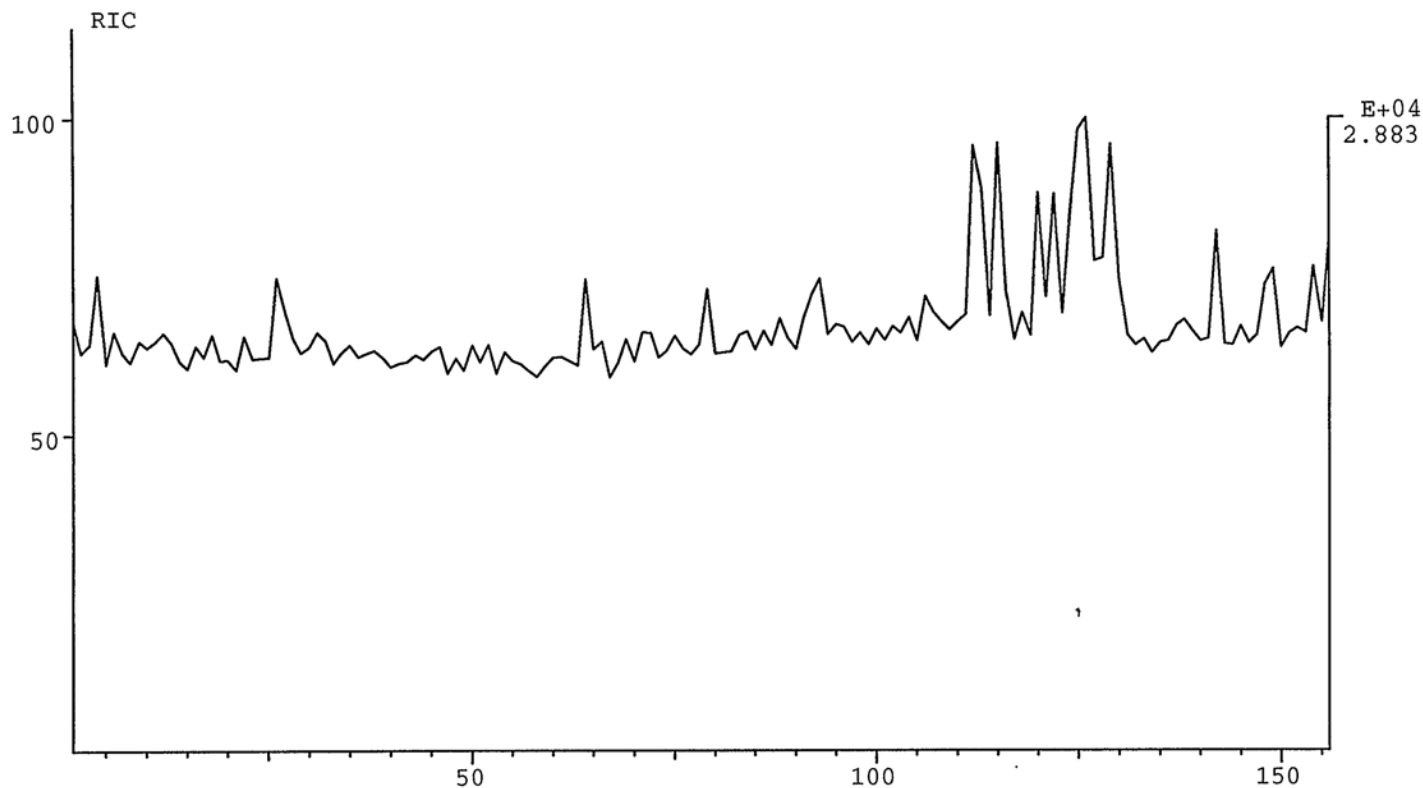


FBI(24-cv-1564)-3373

CHRO: stainlc
Samp: FABRIC FROM STAIN 1, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

07-FEB-95 Elapse: 00:01:25.4 156
Start : 13:19:04 156
Inlet :
Masses: 128 > 296
Label : 15, 40.00

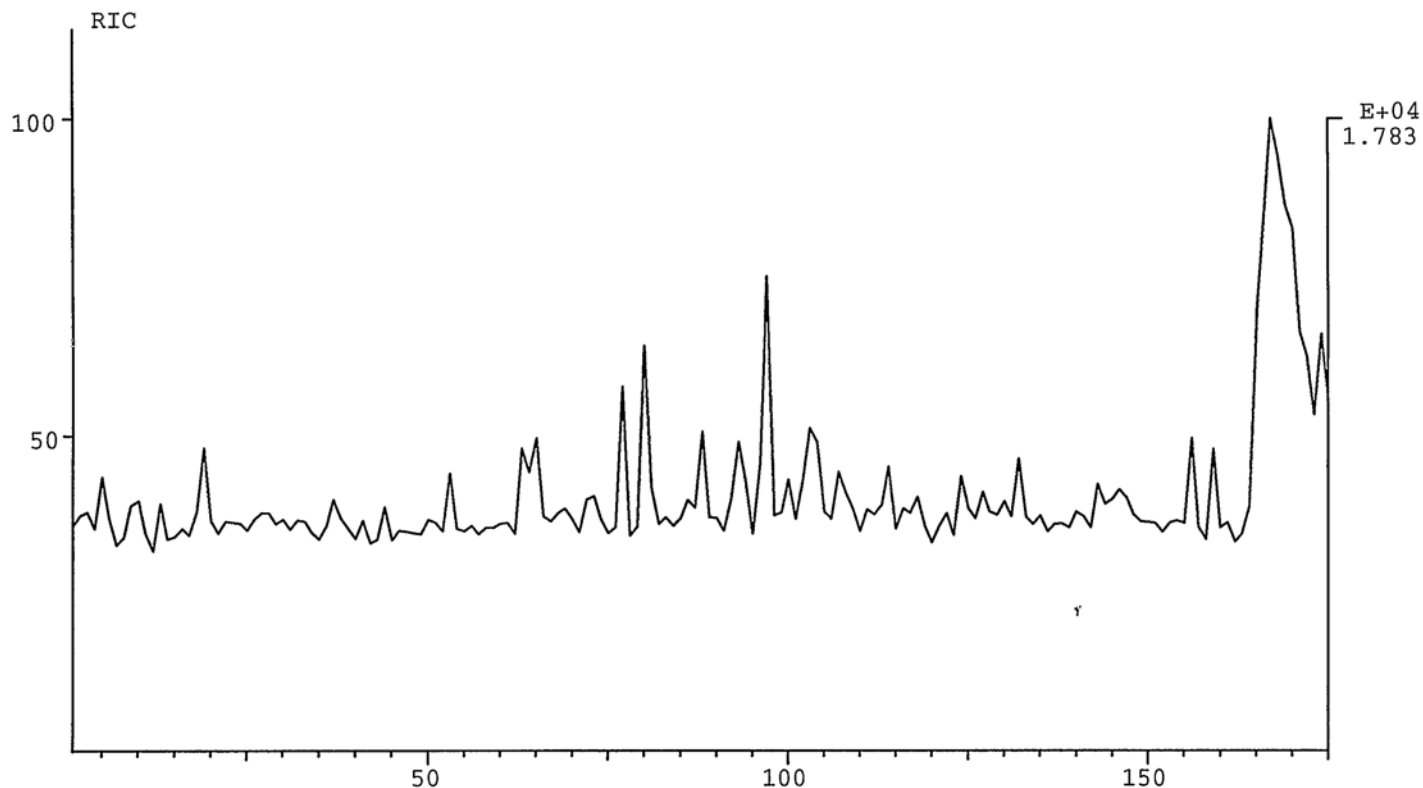
b6 -1
b7C -1



FBI(24-cv-1564)-3374

CHRO: stain2 08-FEB-95 Elapse: 00:01:20.9 147
Samp: BLOOD STAIN 2 DRIED/DILUTED, BM'S EXTR. Start : 16:46:27 175
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 175 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7c -1

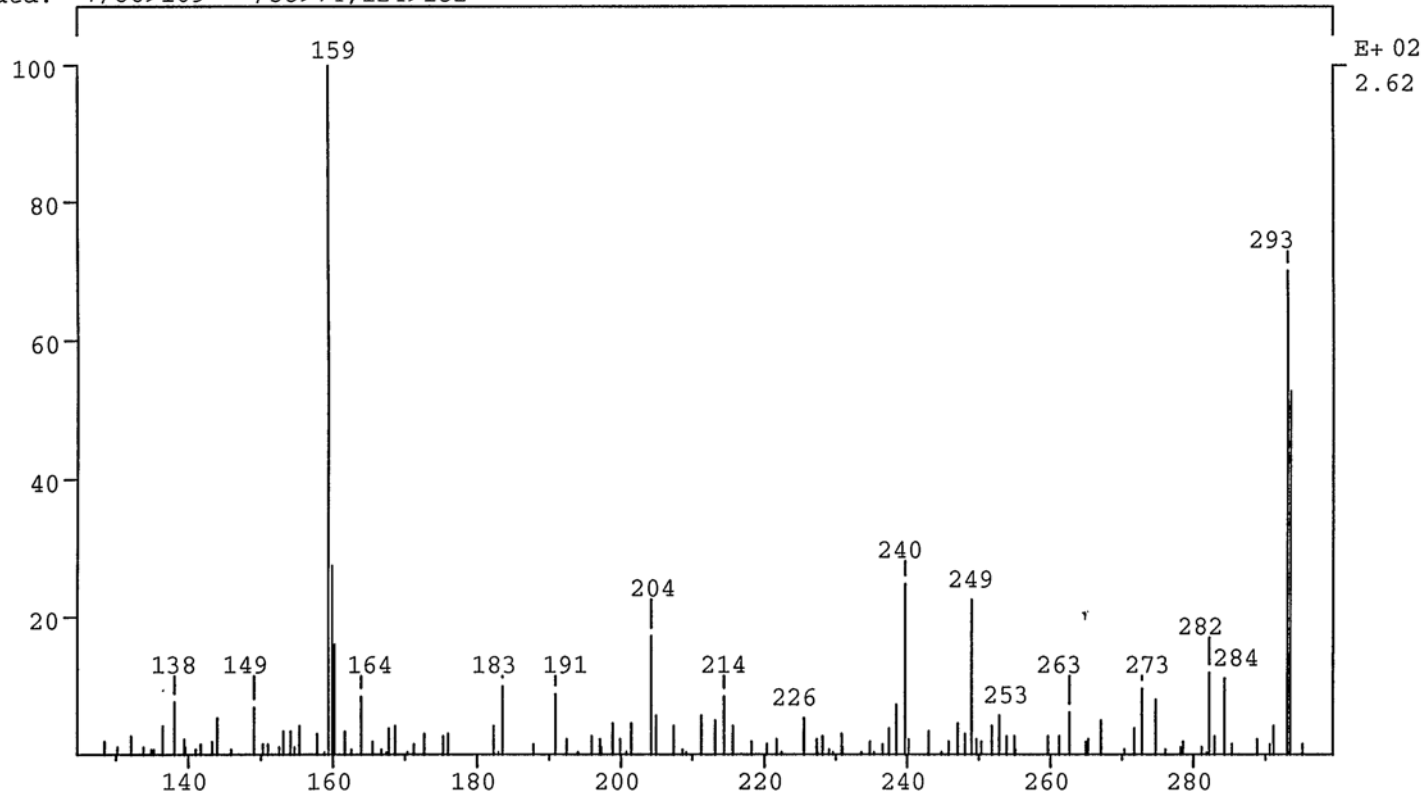


FBI(24-cv-1564)-3375

SPEC: stain2 08-FEB-95 DERIVED SPECTRUM 9
Samp: BLOOD STAIN 2 DRIED/DILUTED, BM'S EXTR. Start : 16:46:27 175
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.4 Inten : 262
Norm: 159.4 RIC : 1746
Peak: 1000.00 mmu
Data: +/86>109 - /55>74,124>152

Inlet :
Masses: 128 > 296
#peaks: 142

b6 -1
b7C -1



FBI(24-cv-1564)-3376

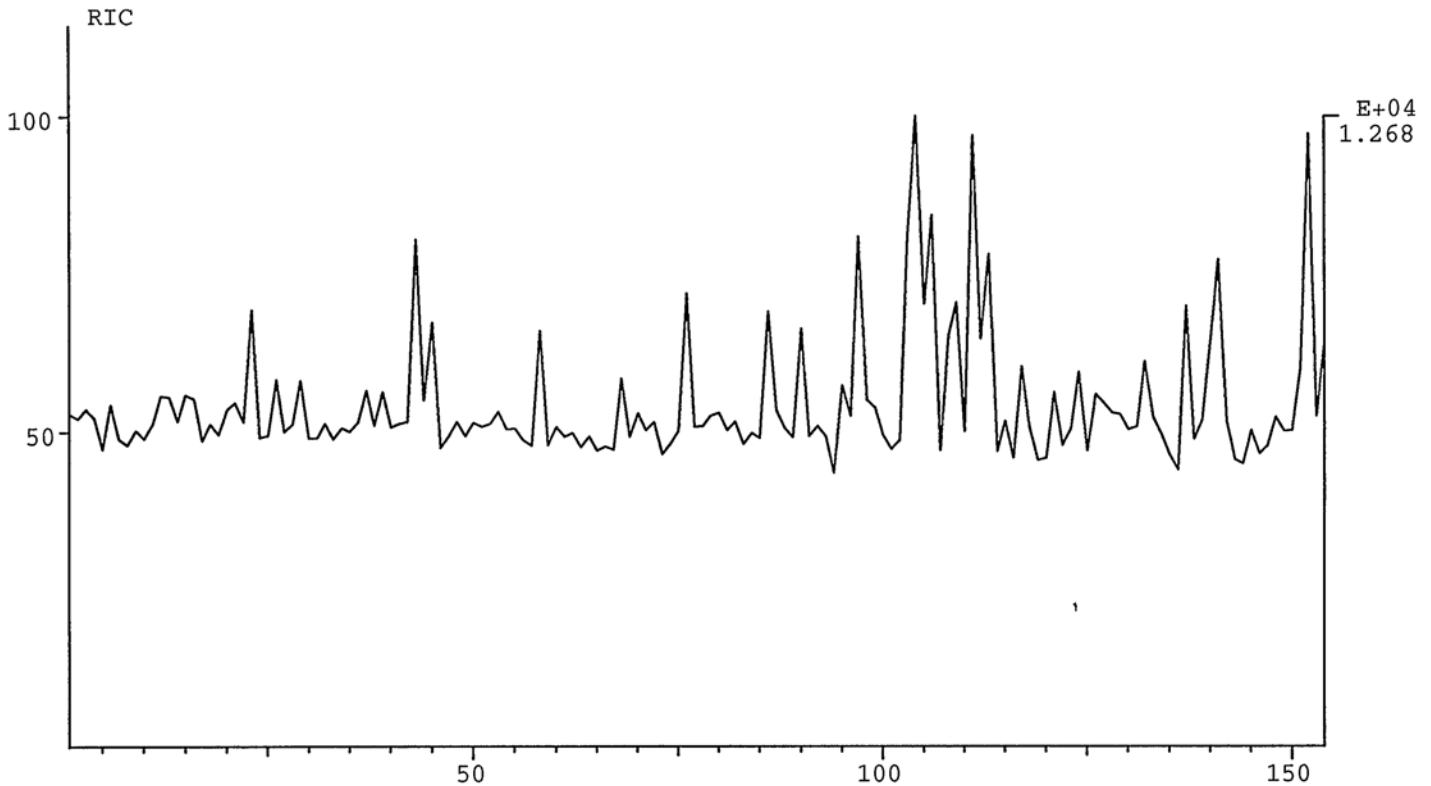
CHRO: stain20
Samp: BLOOD STAIN 20 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

08-FEB-95

Elapse: 00:01:26.4 158
Start : 16:30:11 154

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3377

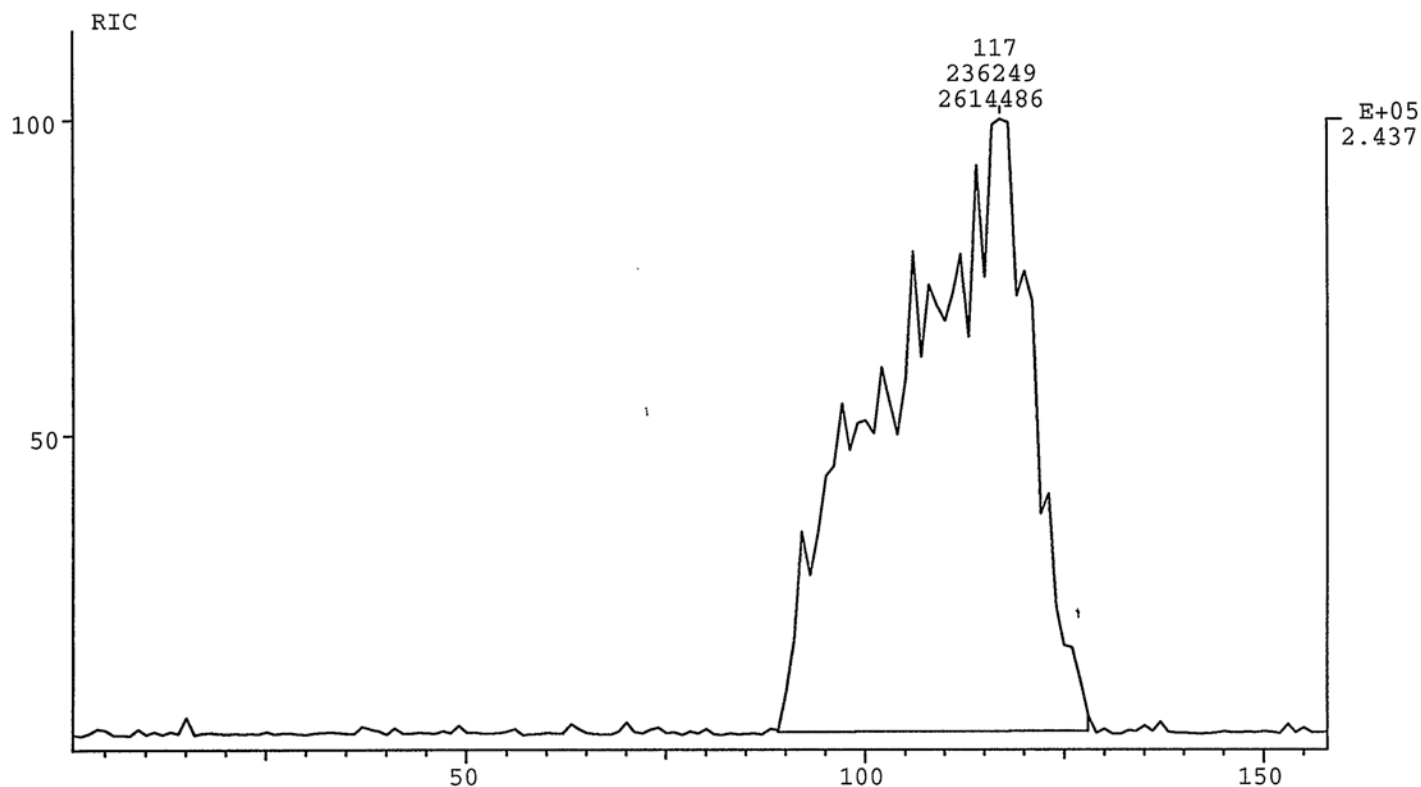
CHRO: stain21
Samp: BLOOD STAIN 21 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 158
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95

Elapse: 00:01:24.2 153
Start : 10:09:14 158

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3378

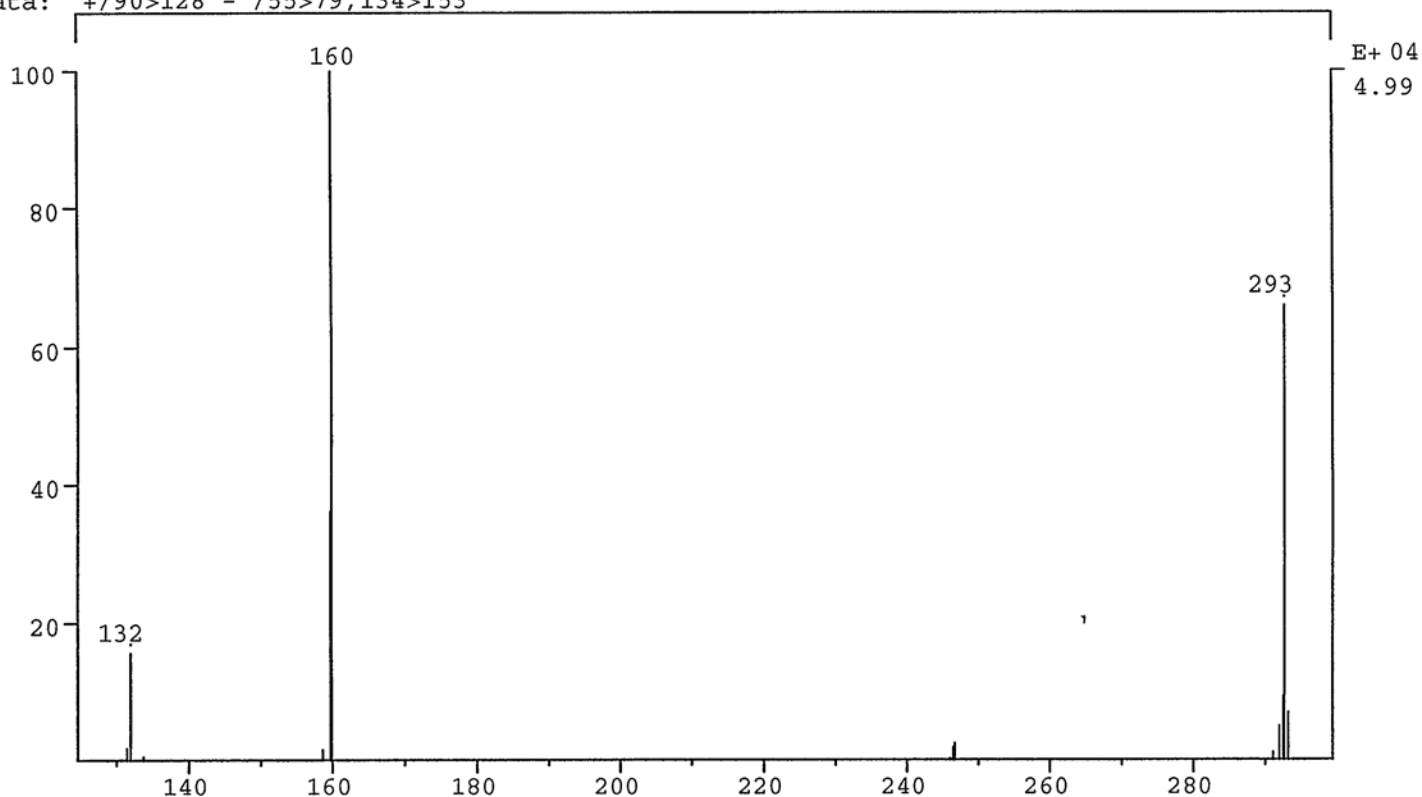
SPEC: stain21
Samp: BLOOD STAIN 21 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/90>128 - /55>79, 134>153

09-FEB-95

DERIVED SPECTRUM 9
Start : 10:09:14 158

Inlet :
Masses: 128 > 296
#peaks: 135

b6 -1
b7C -1



FBI(24-cv-1564)-3379

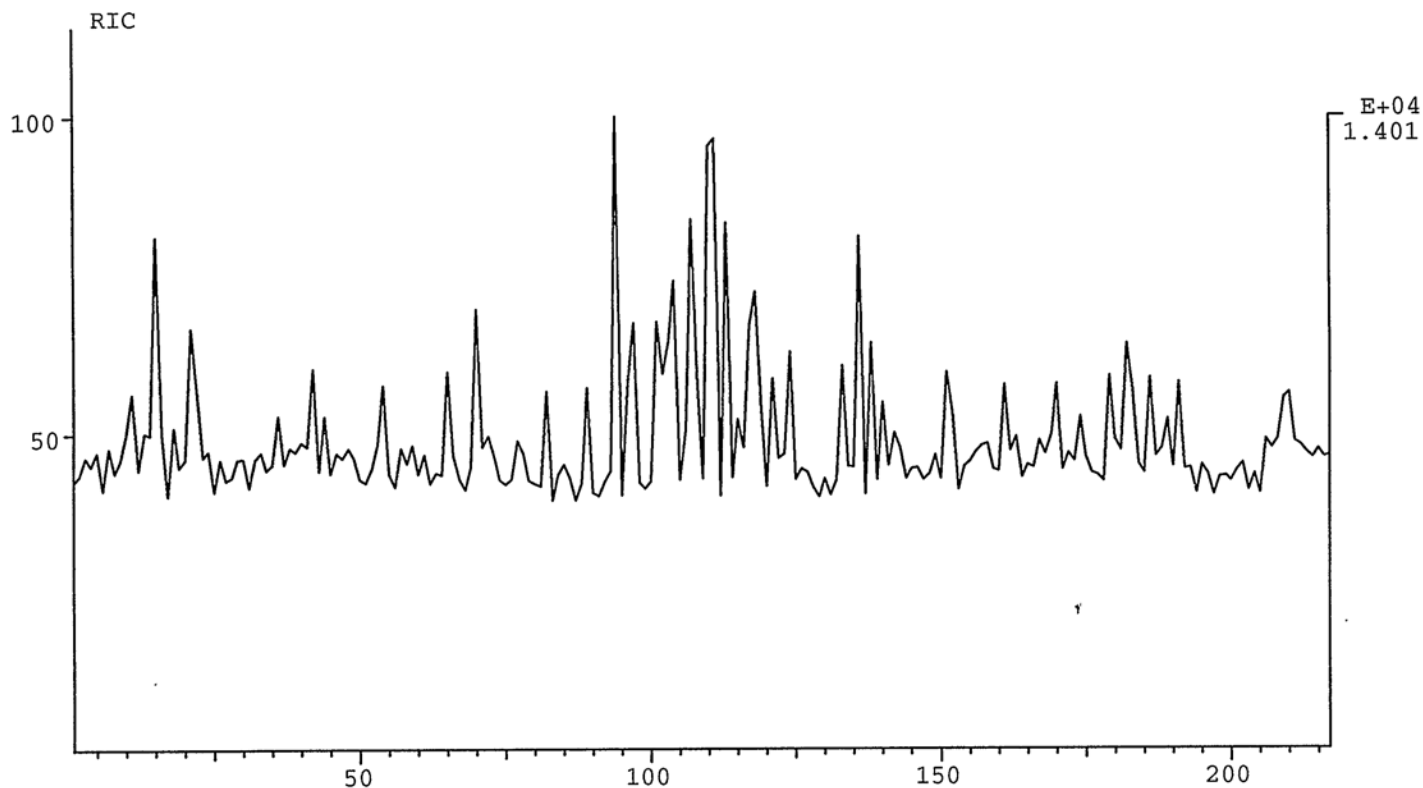
CHRO: stain22
Samp: BLOOD STAIN 22 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

09-FEB-95

Elapse: 00:01:33.0 170
Start : 10:19:08 217

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



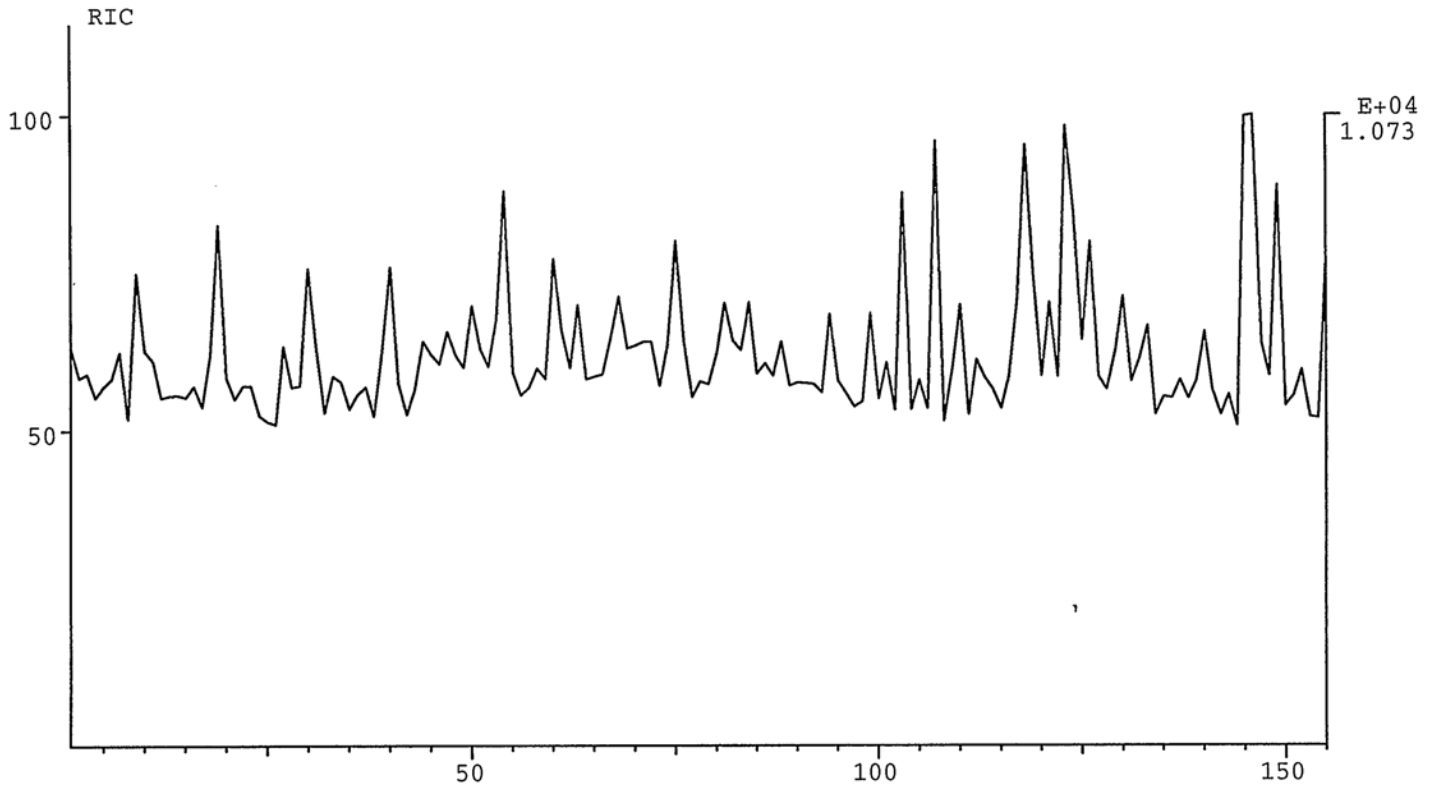
FBI(24-cv-1564)-3380

CHRO: stain23
Samp: BLOOD STAIN 23 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 155
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

09-FEB-95 Elapse: 00:01:32.6 170
Start : 10:29:19 155

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3381

SPEC: stain23
Samp: BLOOD STAIN 23 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 160.0 Inten : 111
Norm: 160.0 RIC : 1177
Peak: 1000.00 mmu
Data: +/-93>132 - /68>82,142>152

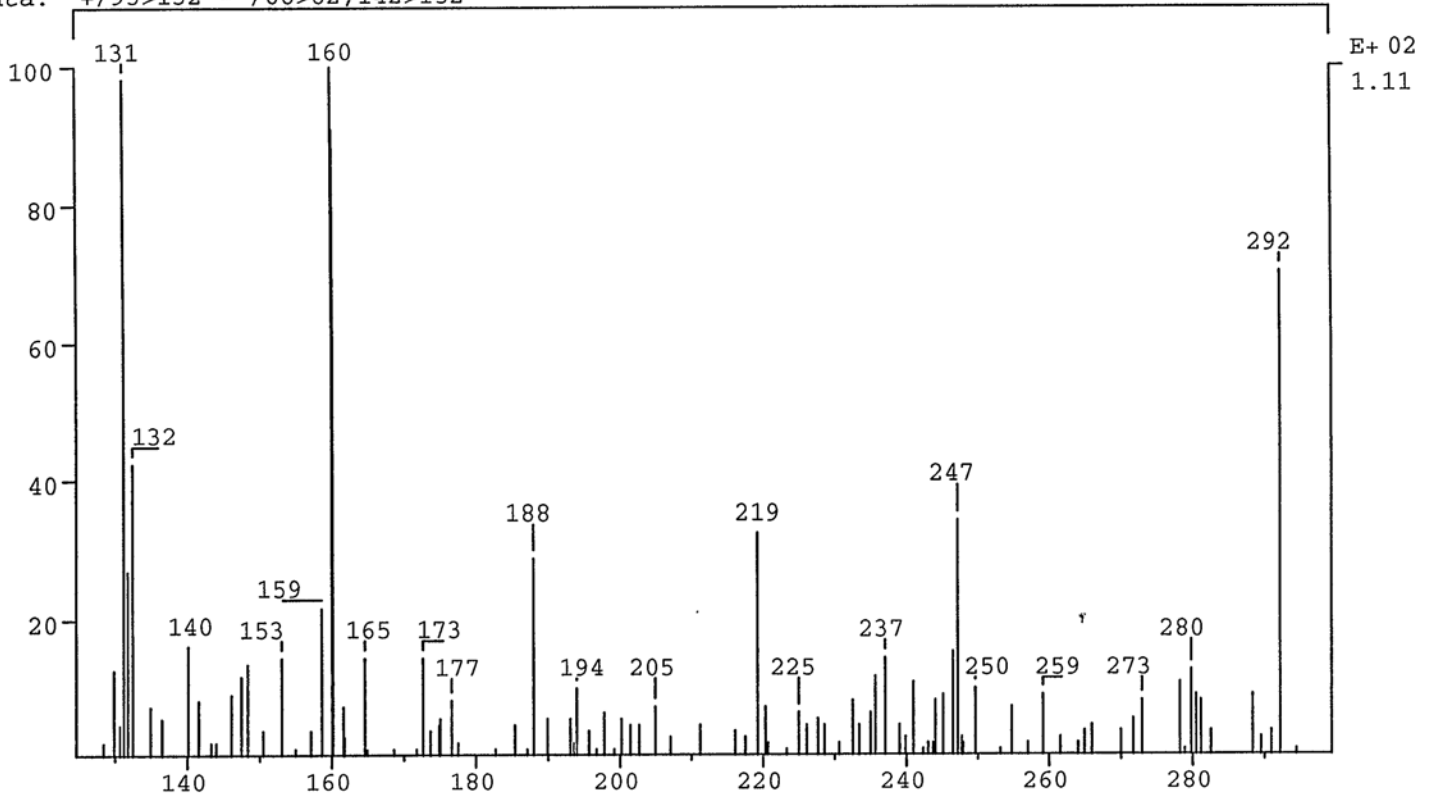
09-FEB-95

DERIVED SPECTRUM
Start : 10:29:19

9
155

Inlet :
Masses: 128 > 296
#peaks: 138

b6 -1
b7C -1

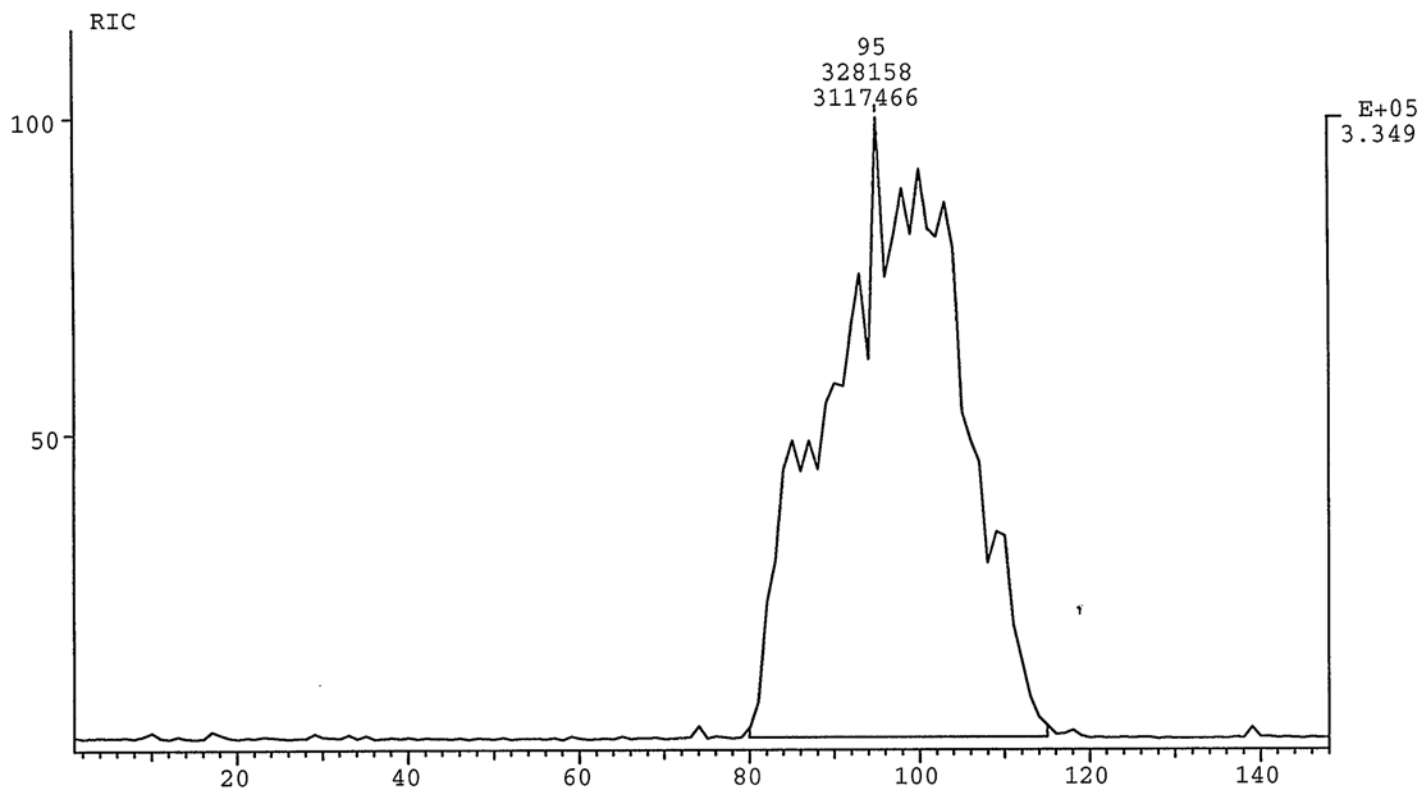


FBI(24-cv-1564)-3382

CHRO: stain24
Samp: BLOOD STAIN 24 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU LMR GAS UP LR
Oper: ☐
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

09-FEB-95 Elapse: 00:01:24.1 152
Start : 10:35:52 148
Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1

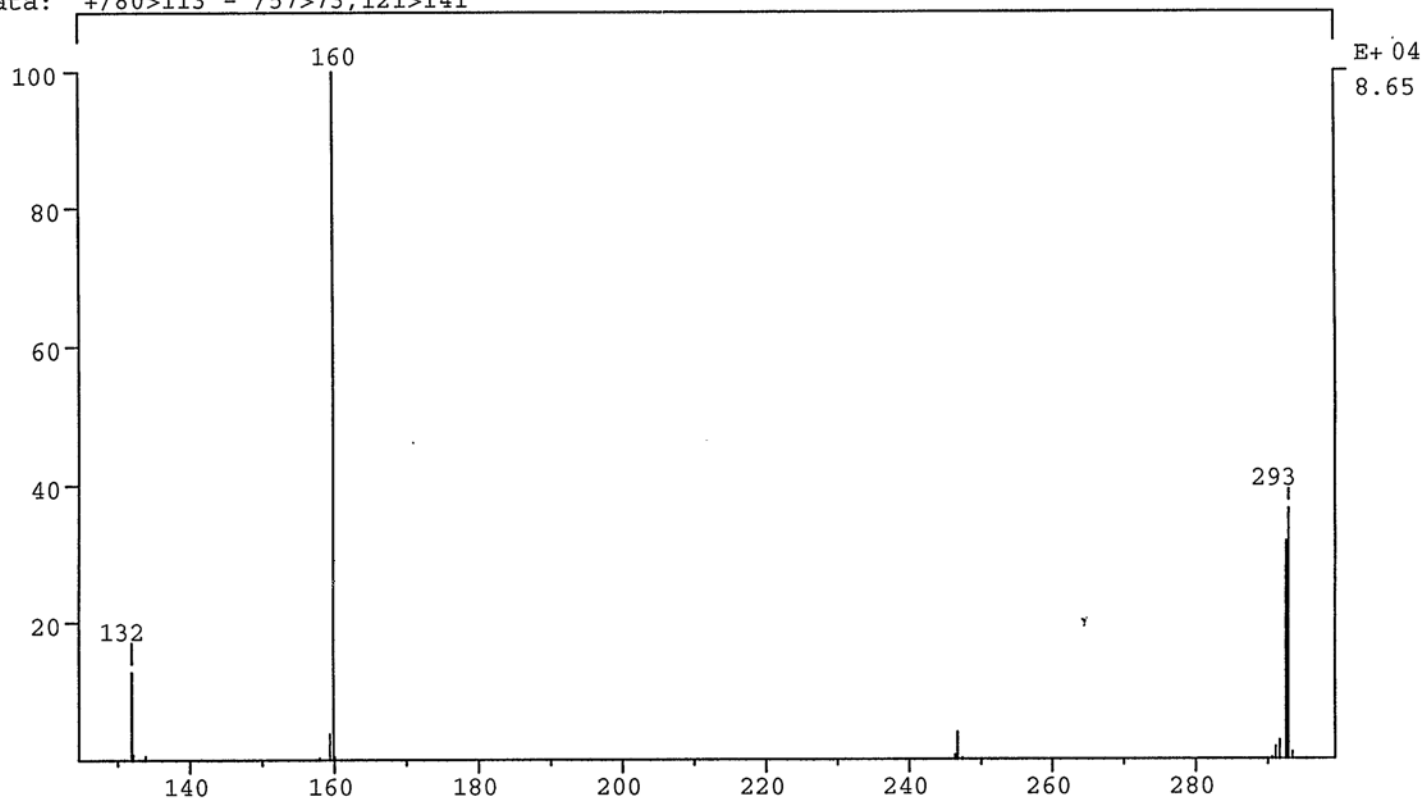


FBI(24-cv-1564)-3383

SPEC: stain24
Samp: BLOOD STAIN 24 DILUTED, BM'S EXTR.
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/80>113 - /57>73,121>141

09-FEB-95 DERIVED SPECTRUM 9
Start : 10:35:52 148
Inlet :
Masses: 128 > 296
#peaks: 137

b6 -1
b7c -1



FBI(24-cv-1564)-3384

Project No. _____

Book No. _____

TITLE Analysis of EDTA in Blood Stains

Page No. _____

Purpose: To develop and validate an analysis method for EDTA in dried blood stains.

Blood Stain samples on cloth were obtained from

Sample 41 was a blood stain of 50 μ L, ~ 2 cm in diameter

Sample 28 was a blood stain with EDTA of 50 μ L, ~ 2 cm in diameter

One quarter of each stain (#28+41) was cut out w. scissors.

Approx. 1 cm piece of stain cloth in pie shape 

Only the stained portion of cloth was used.

The stain was cut in small squares of ~ 1 mm over a plastic weighing boat.

Stain samples were put in Polypropylene centrifuge tubes ~ 1.5 cc.

100 μ L of nanopure water was added to cover samples for extraction.

The samples were extracted overnight at room temperature.

As much as possible of the water was removed from the tubes and transferred to new centrifuge tubes.

The aqueous extracts were heated at 95°C for 10 minutes (in H₂O) to denature the proteins.

The samples turned cloudy and were centrifuged for 5 minutes to clarify.

The samples were analyzed by electrospray LC/MS/MS.

using a Hamilton PRP-1, 2.1 x 150 mm narrow bore column.

Tandem mass spec was used by scanning for daughters of 293 (M+H)⁺

in positive ion mode which gave daughters of 132, 160 (base peak), & 247.

CID = -20 volts

Mobile phase: ACN/10 mM NH₄ 5:95 @ 0.3 mL/min

To Page No. _____

Reviewed & Understood by me,

Date

Invented by

Date

Thurs

FBI(24-cv-1564)-3385

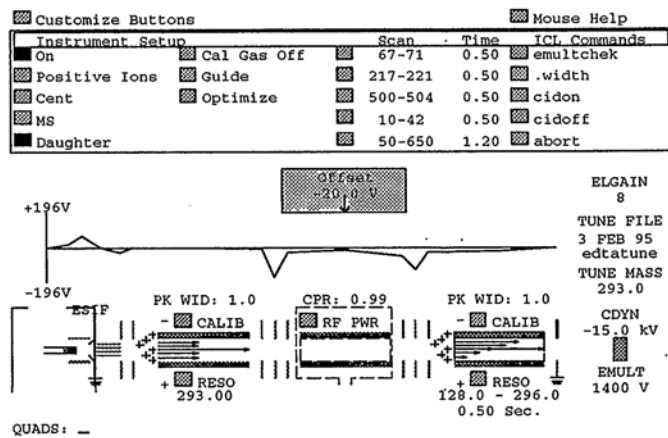
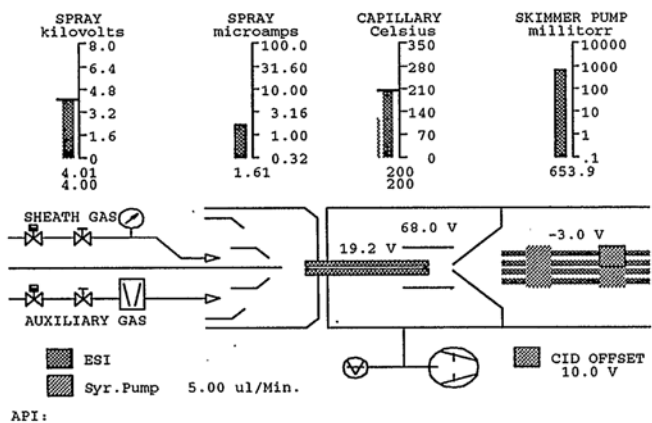
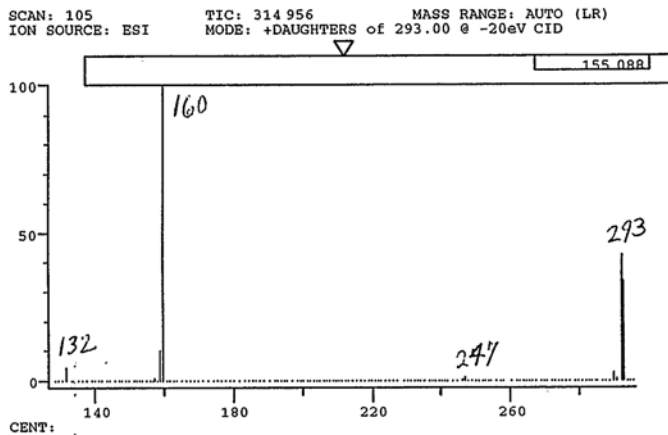
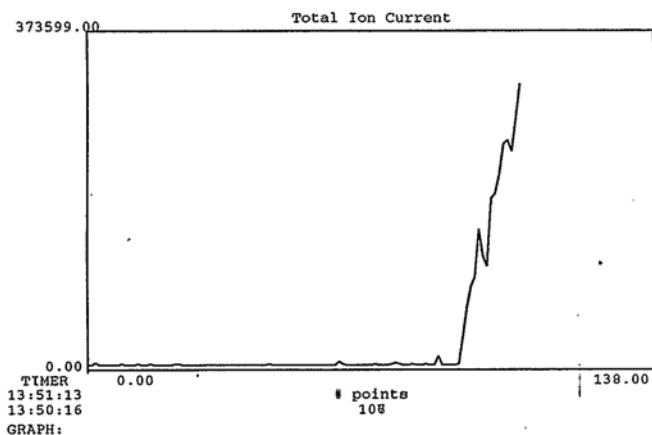
Feb. 2, 95

Witnessed & Understood by me,

Date

Invented by

Date



Thu Feb 9 13:51:15 1995

tsq700

TSQ 700

FBI(24-cv-1564)-3386

Samples were extracted & prepared by [] for Ion Chromatography

The extracts were in 0.025 M Cu SO₄ for IC

Approx. 25 µl of the extracts were left over from IC analysis.

Samples were diluted in 25 µl of reagent grade H₂O and then ~10 µl were transferred to autosampler microvials (glass).

A 1 microliter injection was made for electrospray LC/MS/MS.

b6 -1

b7C -1

ESI LC/MS/MS Results

Sample Exp. Result

1	pos.
2	neg.
3	neg. or very low conc.
4	neg.
5	pos.
6	pos.
7	pos.
8	pos.
9	neg.
10	pos.
11	neg.
12	pos.
13	pos.
14	neg.
15	pos.
16	neg.
17	pos.
18	neg.
19	neg.
20	neg.
21	pos.
22	neg.
23	neg.

To Page No. _____

Read & Understood by me,

Date

Invented by

Date

Thurs FBI(24-cv-1564)-3387

Recorded by

Feb 9, '95

TITLE

cont.

Project No. _____

Book No. _____

From Page No. _____

Results cont.

Sample Exp. Result

24	pos.
25	pos.
26	neg.
27	neg.
28	pos. but was a known
29	pos.
30	neg.
31	neg.
32	pos.
33	pos.
34	neg.
35	neg.
36	neg.
37	pos.
38	neg.
39	pos.
40	pos.
41	neg. but it was a known
42	neg.
43	pos.
44	neg.

Unstained area of fabric from samples 1, 12, + 29 were extracted and analyzed by ESI LC/MS/MS. All three were found to be negative for

Rerun 3 4 13 16 18 19 25 27 39 40 44

some of the samples spotted w 2-4 ml

Samples were stained w 2-50 ml

To Page

Witnessed & Understood by me,

Date

Invented by

Date
FBI (24-CV-1564)-3388

Recorded by

Feb. 9, 95

Dried Blood Stain samples were prepared using sterile cotton linen and blood from [redacted]. The blood spiked w/ EDTA had 2000 ppm of EDTA from a purple top EDTA preservative blood tube. The stains were made by applying between 2-50 μ l of blood to linen. The blood was drawn on 1-31-95 and the stains were made 1-31-95.

b6 -1

b7C -1

The sample identities are listed below.

<u>Sample #</u>	<u>μl of Blood</u>	<u>Sample #</u>	<u>μl of Blood</u>
1	5 w/ EDTA	23	10
2	5	24	40 w/ EDTA
3	2 w/ EDTA	25	2 w/ EDTA
4	2	26	20
5	4 w/ EDTA	27	3
6	50 w/ EDTA	28	50 w/ EDTA run as known
7	8 w/ EDTA	29	10 w/ EDTA
8	40 w/ EDTA	30	6
9	6	31	5
10	10 w/ EDTA	32	30 w/ EDTA
11	10	33	8 w/ EDTA
12	20 w/ EDTA	34	8
13	3 w/ EDTA	35	30
14	20	36	30
15	5 w/ EDTA	37	20 w/ EDTA
16	4	38	40
17	30 w/ EDTA	39	4 w/ EDTA
18	3	40	3 w/ EDTA
19	4	41	50 run as known
20	30	42	8
21	6 w/ EDTA	43	6 w/ EDTA
22	40	44	2

To Page No. _____

ed & Understood by me,

Date

Invented by

Date

Recorded by

Feb 9, '95

FBI(24-cv-1564)-3389

From Page No. _____

[] procedure for preparing samples for Ion Chromatography b6 -1
b7C -1

Cut out $\frac{1}{4}$ to $\frac{1}{2}$ of stain and use $\sim \frac{1}{4}$ to $\frac{1}{2}$ cm² of stain.

Add 50 or 100 μ l of 0.025 M CuSO₄ solution

1st set of samples (#1-20) sonicated 1 hr, then left sitting for 2 hrs.

2nd set of samples (#21-44) sat overnight then were vortexed + centrifuged.

Injectons of 25 μ l were made.

BM's method correctly determined all 42 samples for EDTA

To Page

Witnessed & Understood by me,

Date

Invented by

Date

Recorded by

Feb 9 '95
FBI (24-cv-1564)-3390

Sample Prep for ESI LC/MS/MS Determination of EDTA in Dried Blood Stains

Small sample stains were prepared using down to $\frac{1}{2}$ of a 2 μ L blood stain

Cut up stain into ~ 1 cm squares into plastic weighing boat

Use Millipore UltraFree-MC Centrifugal Filtration 10 mm diameter tubes
w nominal MW cutoff of 30 000

UltraFiltration membrane is made of polysulfone Type PTTK

Millipore Corp Bedford, MA 01730

Centrifugal Filters are precleaned by adding 400 μ L of nanopure H_2O
to upper tube. Centrifuge tube 5 minutes on low speed setting.
Dispose of filtrate wash.

Place sample in centrifugal filter tube and add 25 μ L of nanopure H_2O
If necessary add more H_2O if needed to cover sample.

Sample sat for 45 minutes at room temperature.

Centrifuge tubes for 10 minutes on low speed.

Use 1 μ L of filtrate for injection on LC/MS/MS

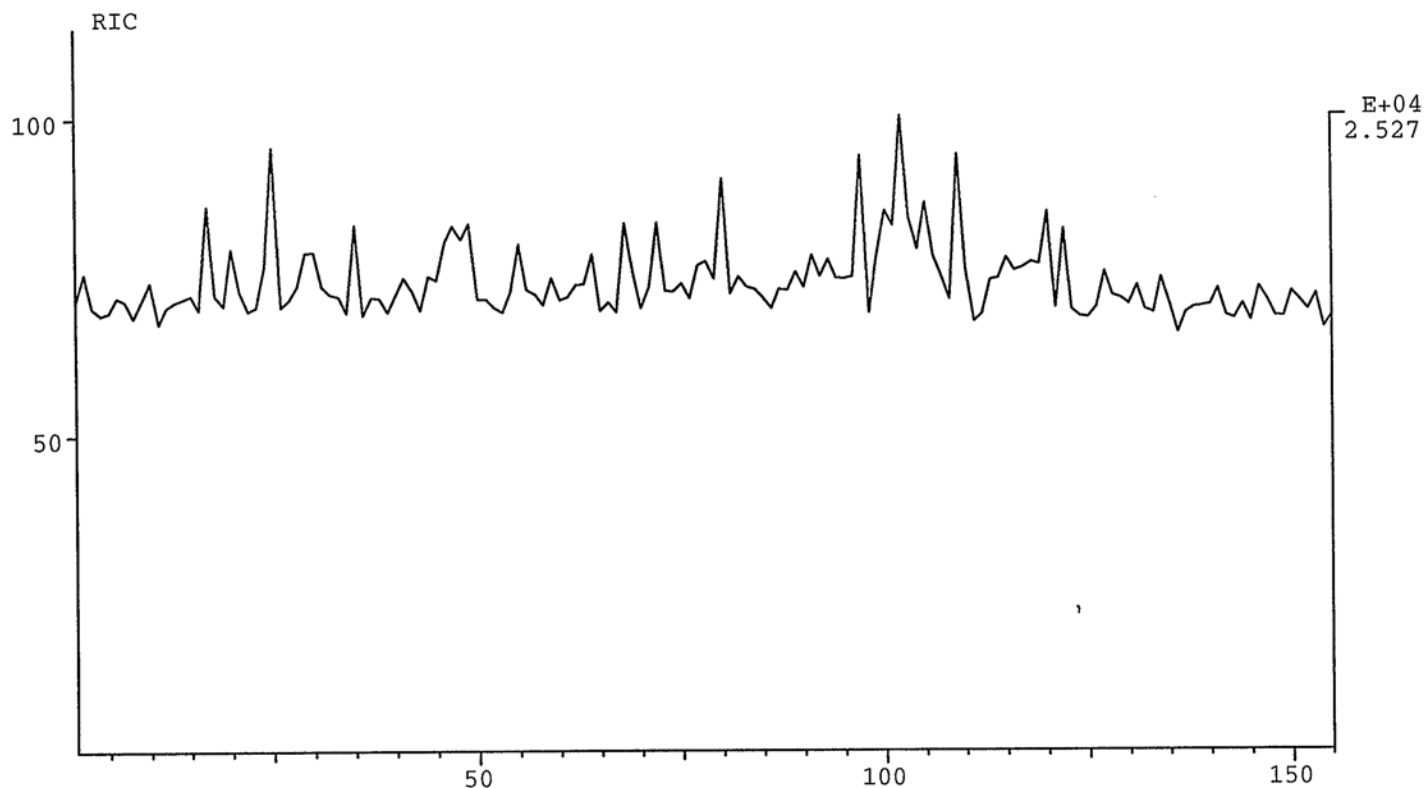
A second wash extract of filters showed very little was left of EDTA
in samples after a single 45 min extraction.

Analyze samples using instrumental setup on pages 72 + 73.

Prepare samples 3, 4, 13, + 16 using above sample preparation.
Correct results were obtained on all samples.

CHRO: blctrl1 07-FEB-95 Elapse: 00:00:54.8 98
Samp: BLOOD CONTROL, H2O EXTR. OF STAIN, MS/MS Start : 09:45:21 155
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 155 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

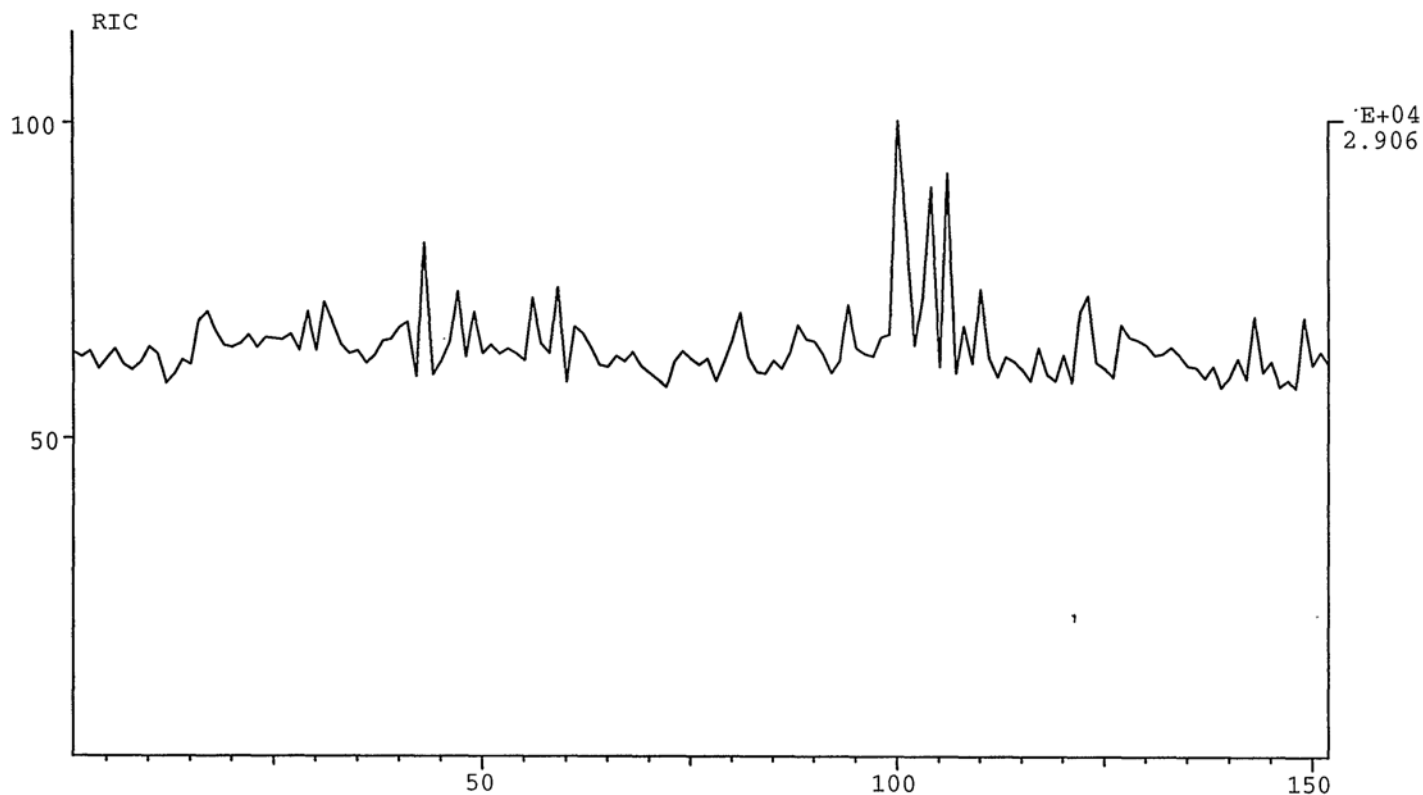
b6 -1
b7c -1



FBI(24-cv-1564)-3392

CHRO: blctrl2 07-FEB-95 Elapse: 00:00:42.7 76
Samp: BLOOD CONTROL, H2O EXTR. OF STAIN,MS/MS Start : 09:48:52 152
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 152 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7c -1

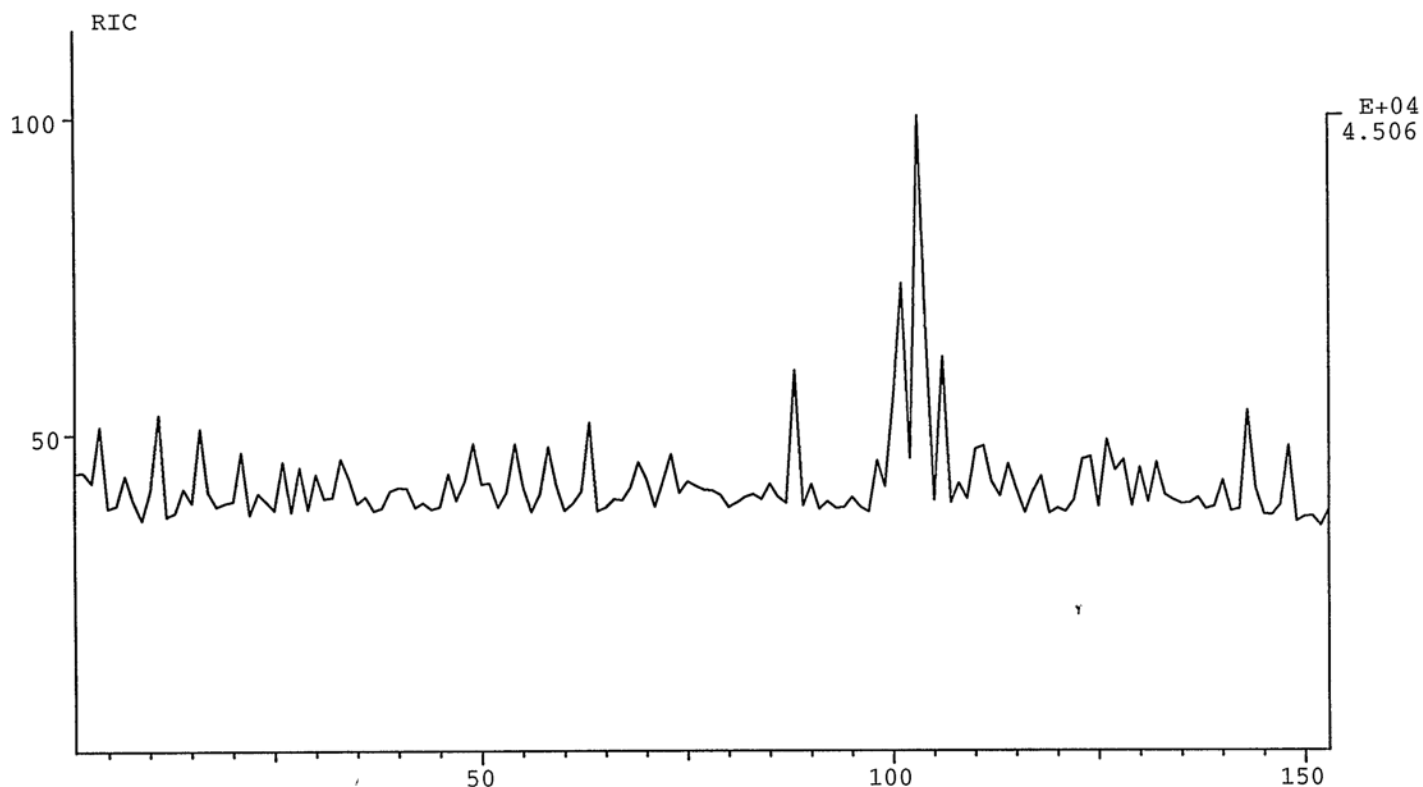


FBI(24-cv-1564)-3393

CHRO: blctrl3
Samp: BLOOD CONTROL, H2O EXTR. OF STAIN
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 153
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

07-FEB-95 Elapse: 00:01:22.0 150
Start : 09:52:50 153
Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3394

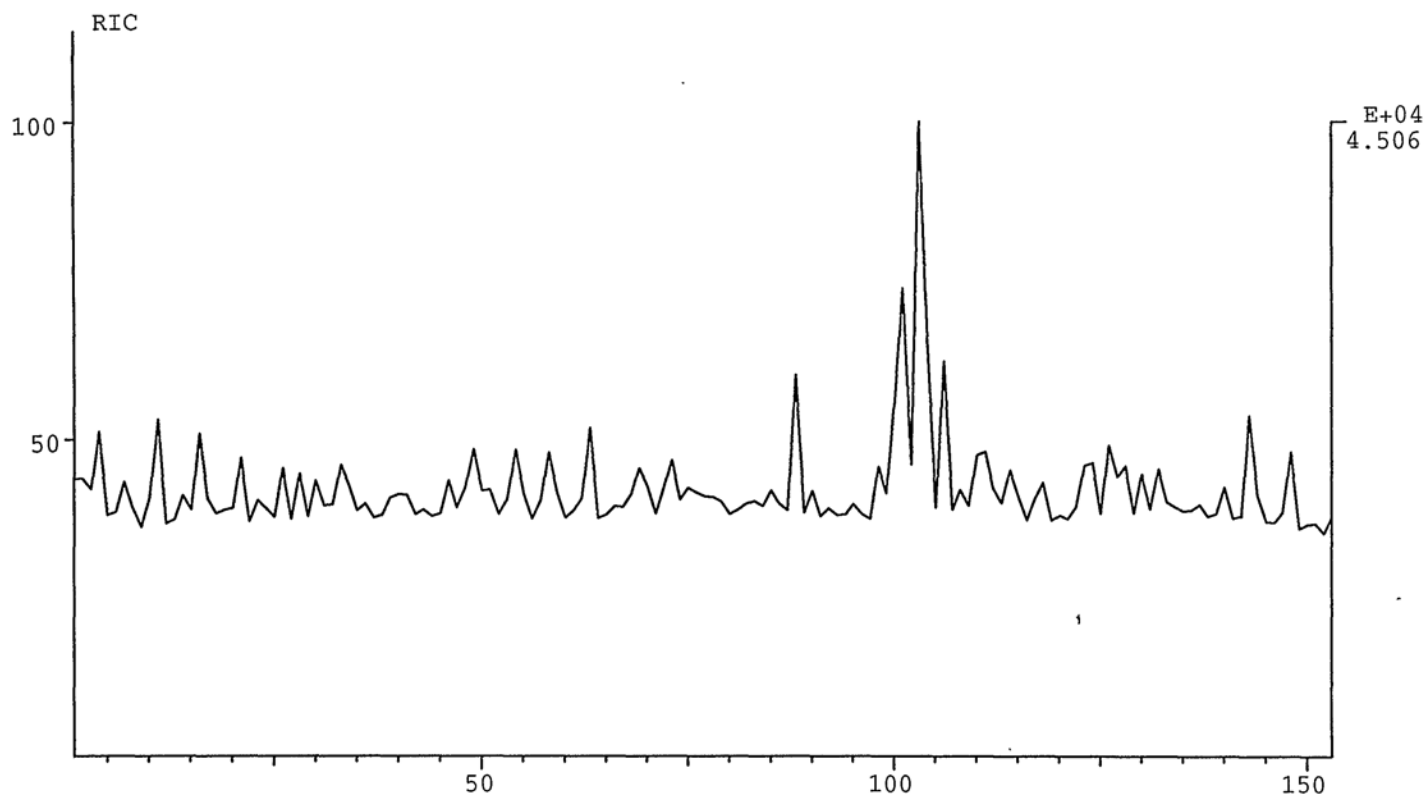
CHRO: blctrl3
Samp: BLOOD CONTROL, H2O EXTR. OF STAIN
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 153
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

07-FEB-95

Elapse: 00:00:59.1 107
Start : 09:52:50 153

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



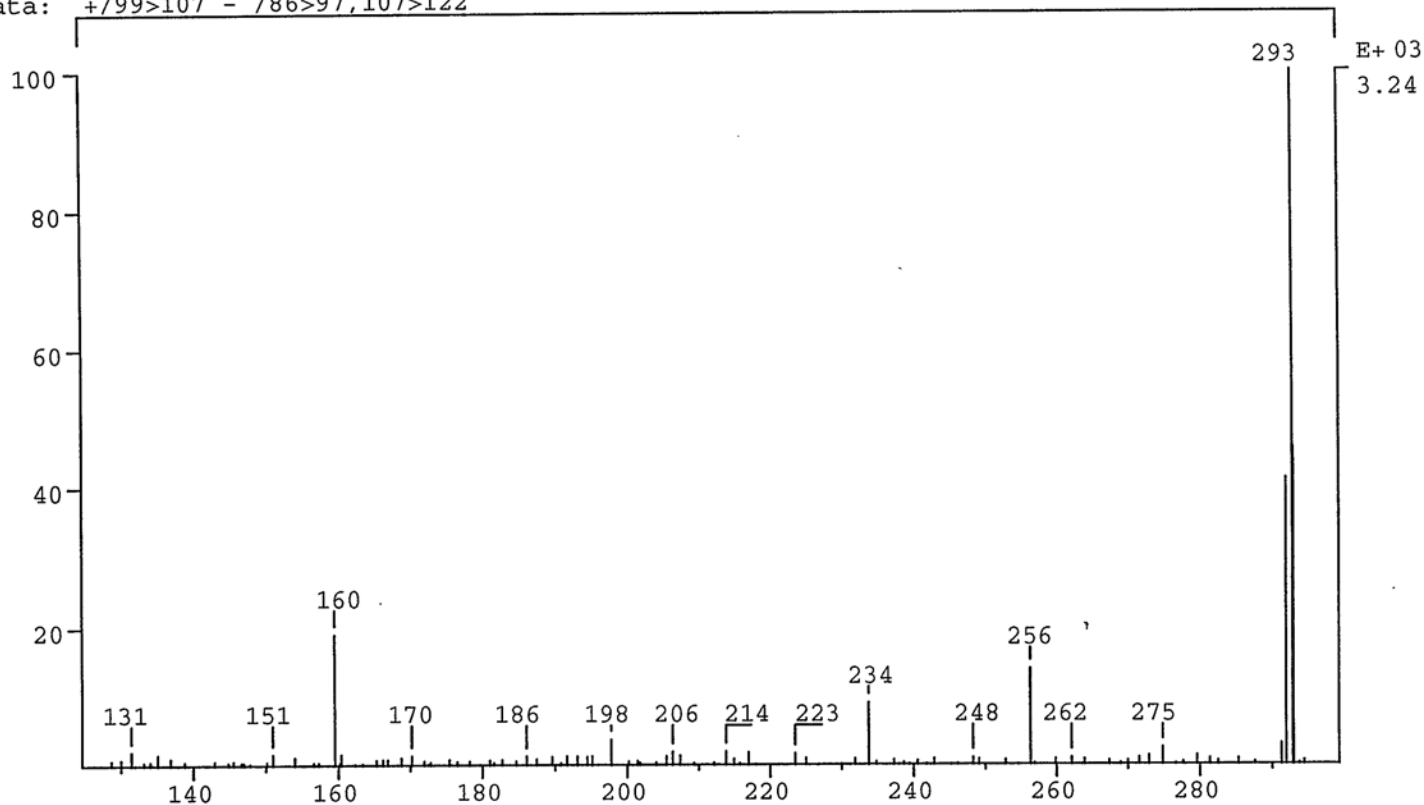
FBI(24-cv-1564)-3395

SPEC: blctrl3
Samp: BLOOD CONTROL, H2O EXTR. OF STAIN
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -9eV LMR GAS UP LR
Oper:
Base: 292.8 Inten : 3242
Norm: 292.8 RIC : 10109
Peak: 1000.00 mmu
Data: +/99>107 - /86>97, 107>122

07-FEB-95 DERIVED SPECTRUM 9
Start : 09:52:50 153

Inlet :
Masses: 128 > 296
#peaks: 129

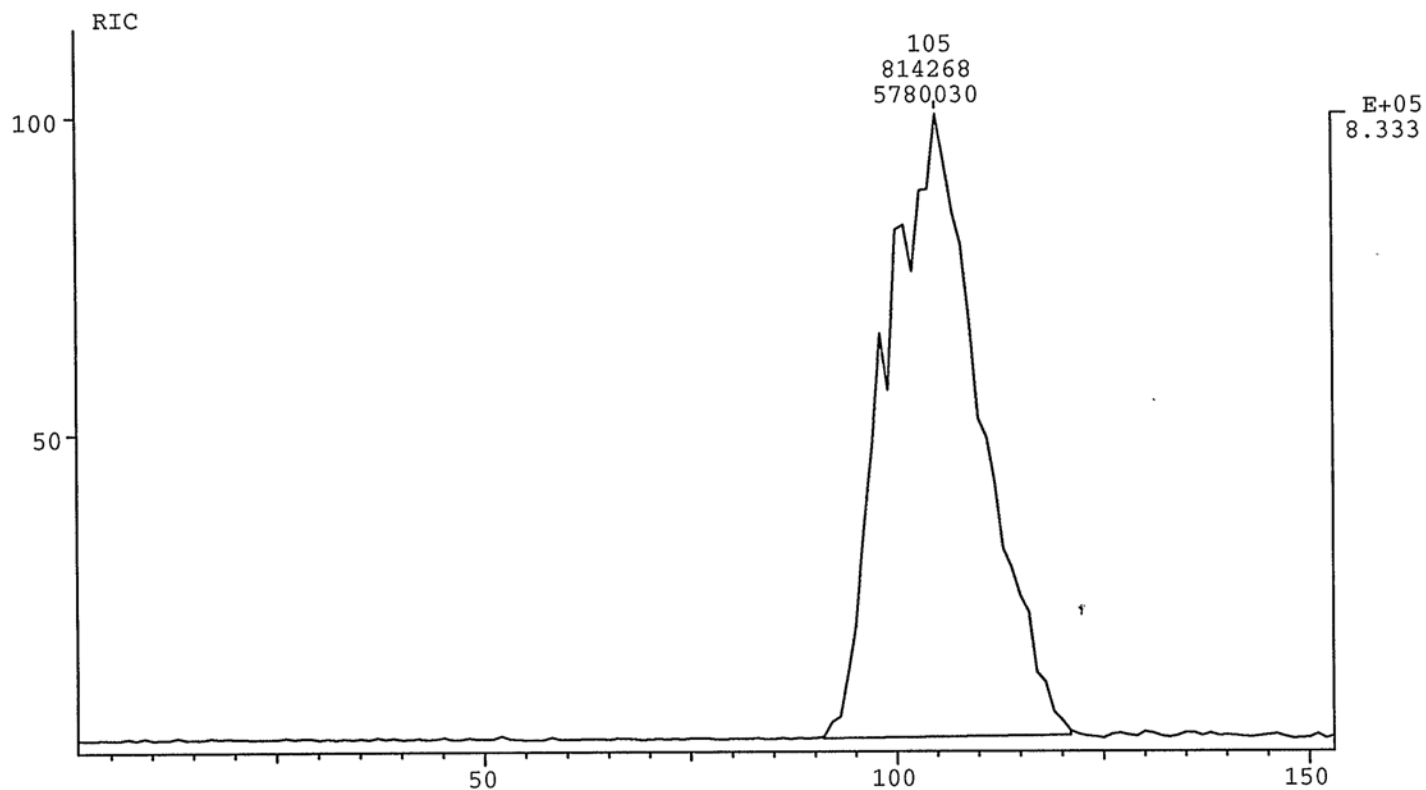
b6 -1
b7C -1



FBI(24-cv-1564)-3396

CHRO: bledt2ms1 07-FEB-95 Elapse: 00:01:19.6 145
Samp: BLOOD+EDTA ,H2O EXTR. OF STAIN,MS/MS Start : 09:57:51 153
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 153 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3397

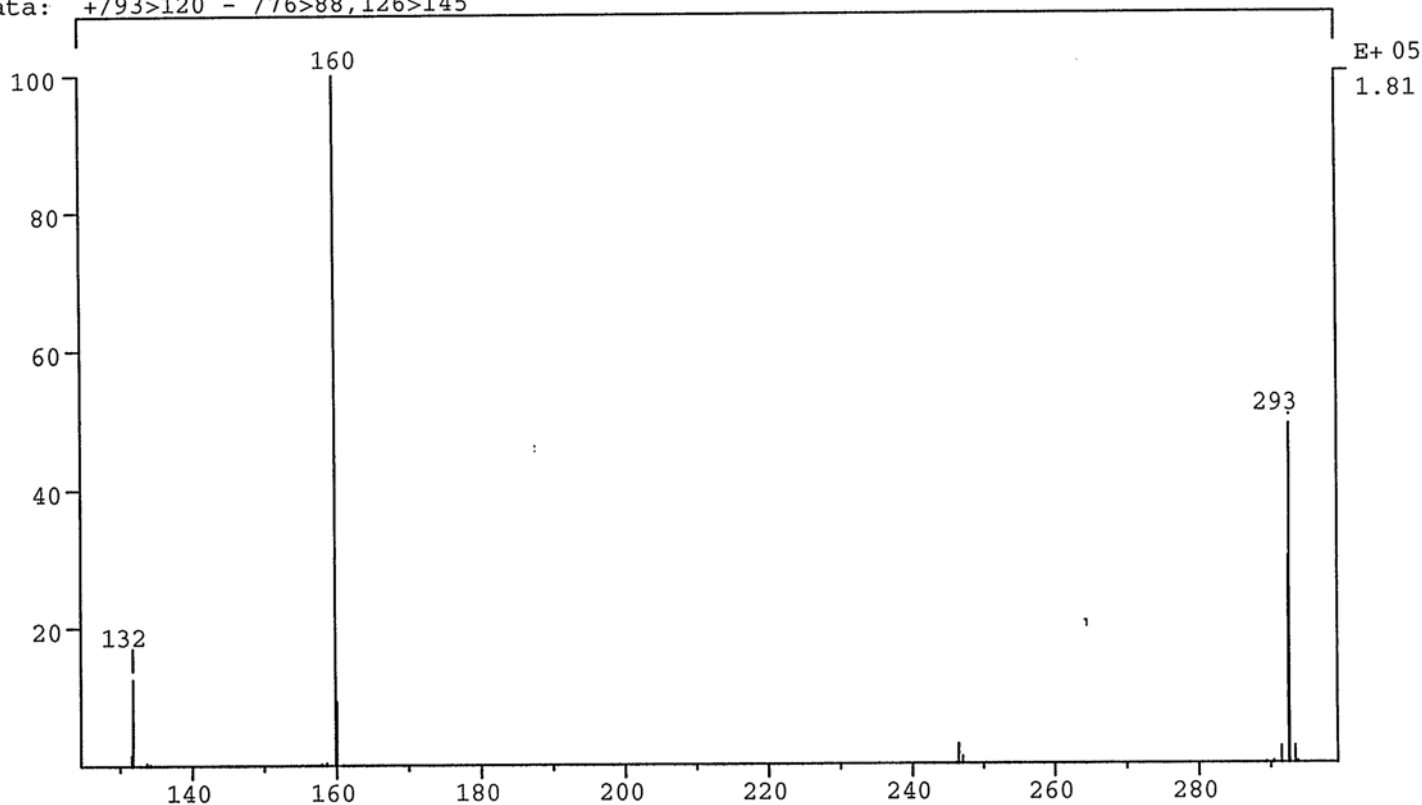
SPEC: bledt2ms1
Samp: BLOOD+EDTA ,H2O EXTR. OF STAIN,MS/MS
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/93>120 - /76>88,126>145

07-FEB-95

DERIVED SPECTRUM
Start : 09:57:51 153

Inlet :
Masses: 128 > 296
#peaks: 134

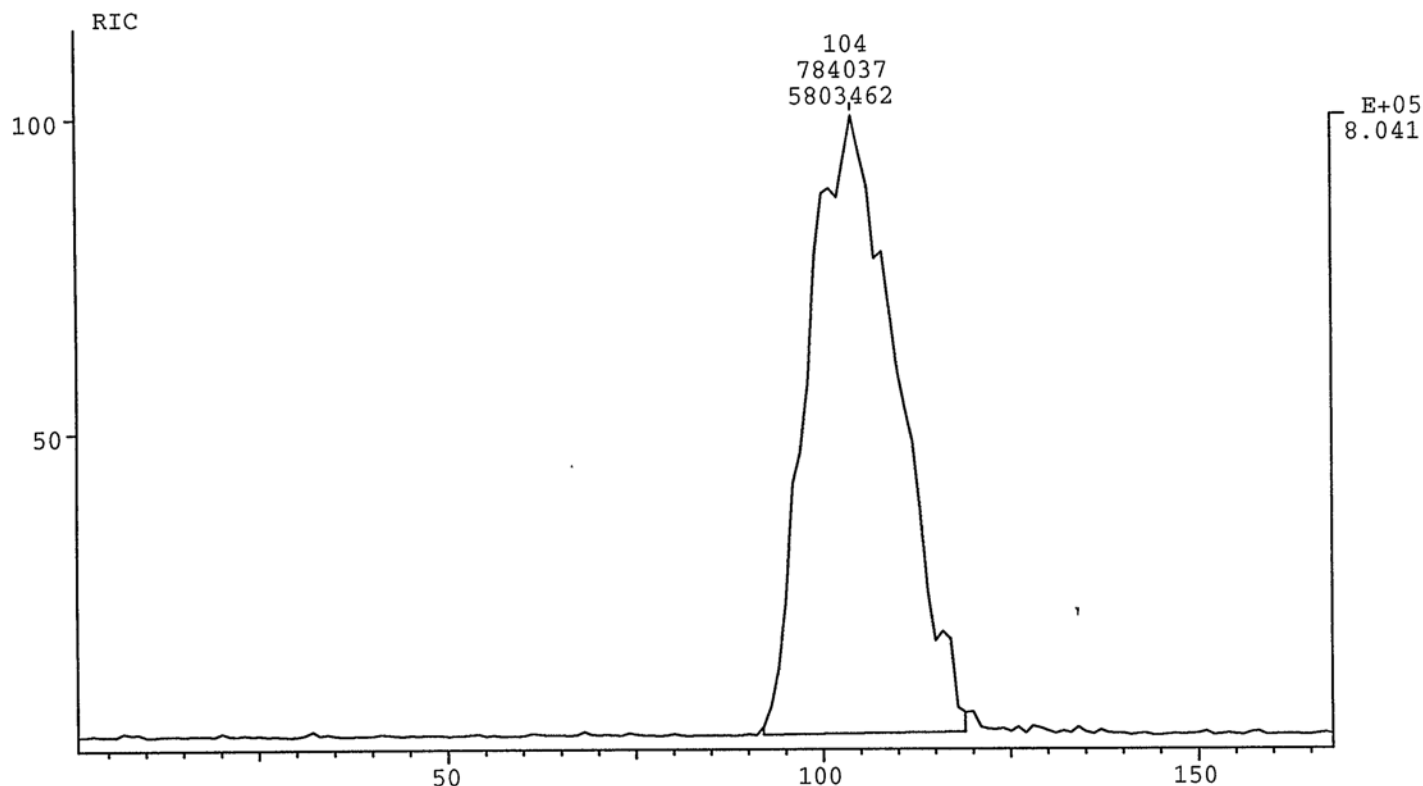
b6 -1
b7c -1



FBI(24-cv-1564)-3398

CHRO: bledt2ms2 07-FEB-95 Elapse: 00:01:22.4 150
Samp: BLOOD+EDTA ,H2O EXTR. OF STAIN,MS/MS Start : 10:02:06 168
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 168 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3399

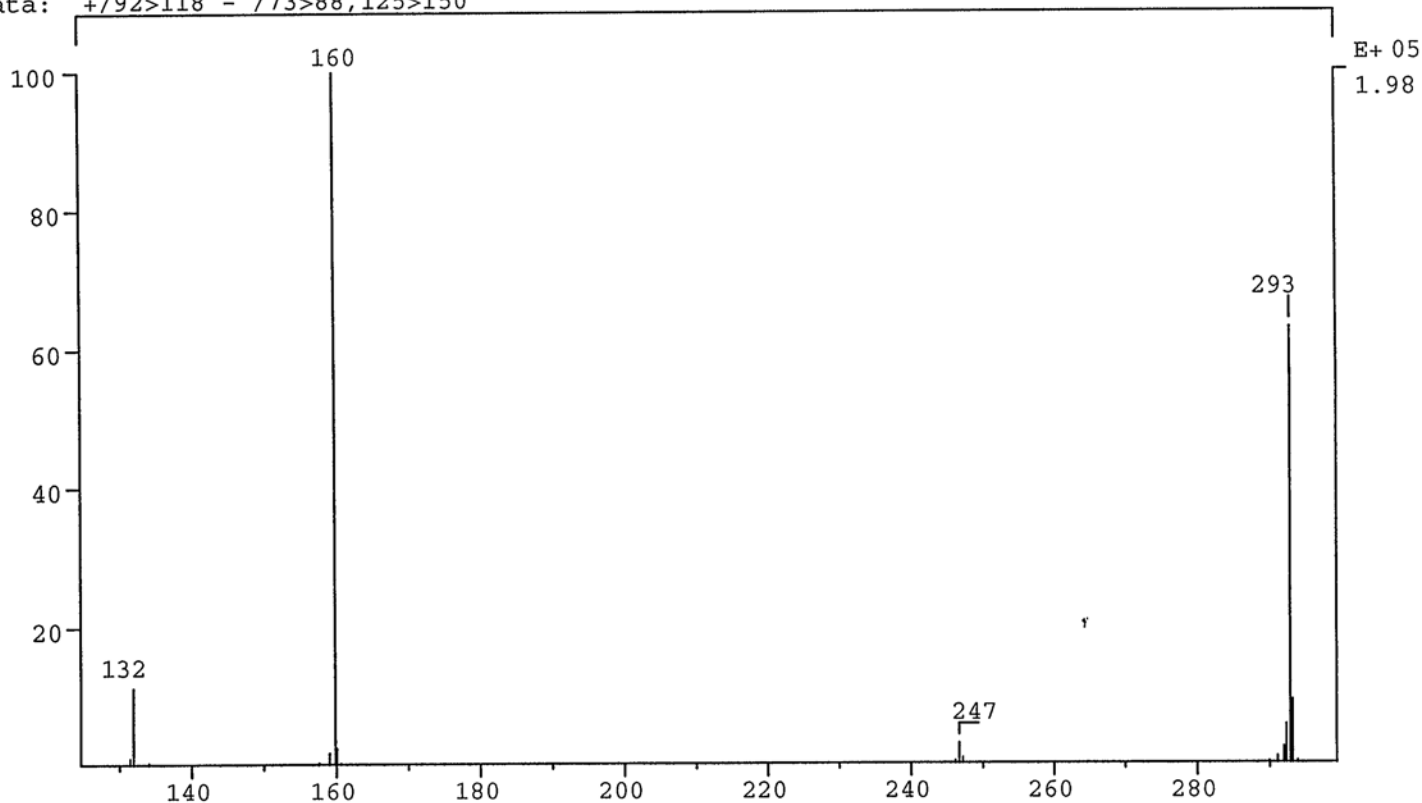
SPEC: bledt2ms2
Samp: BLOOD+EDTA ,H2O EXTR. OF STAIN,MS/MS
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/92>118 - /73>88,125>150

07-FEB-95

DERIVED SPECTRUM 9
Start : 10:02:06 168

Inlet :
Masses: 128 > 296
#peaks: 139

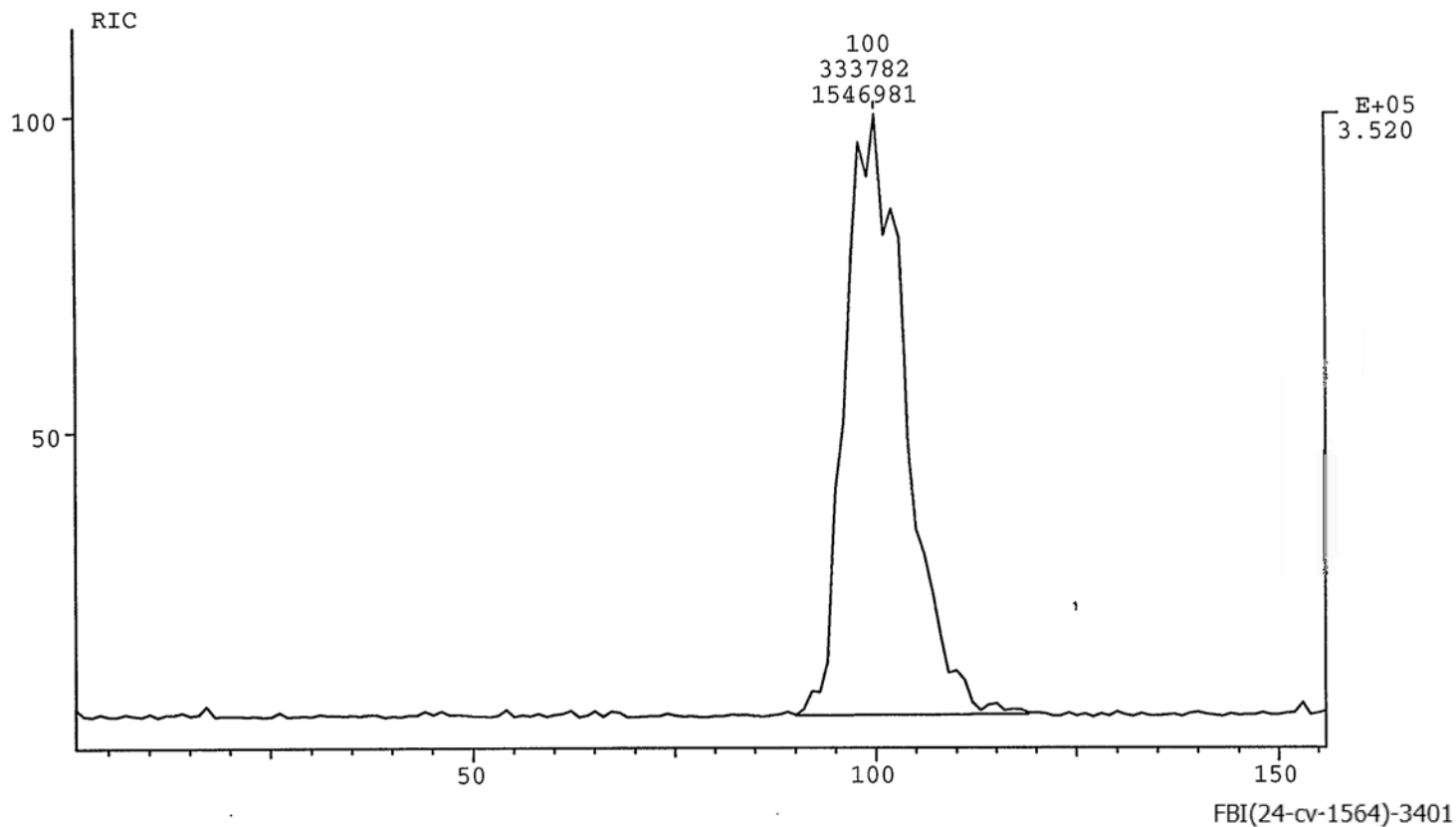
b6 -1
b7c -1



FBI(24-cv-1564)-3400

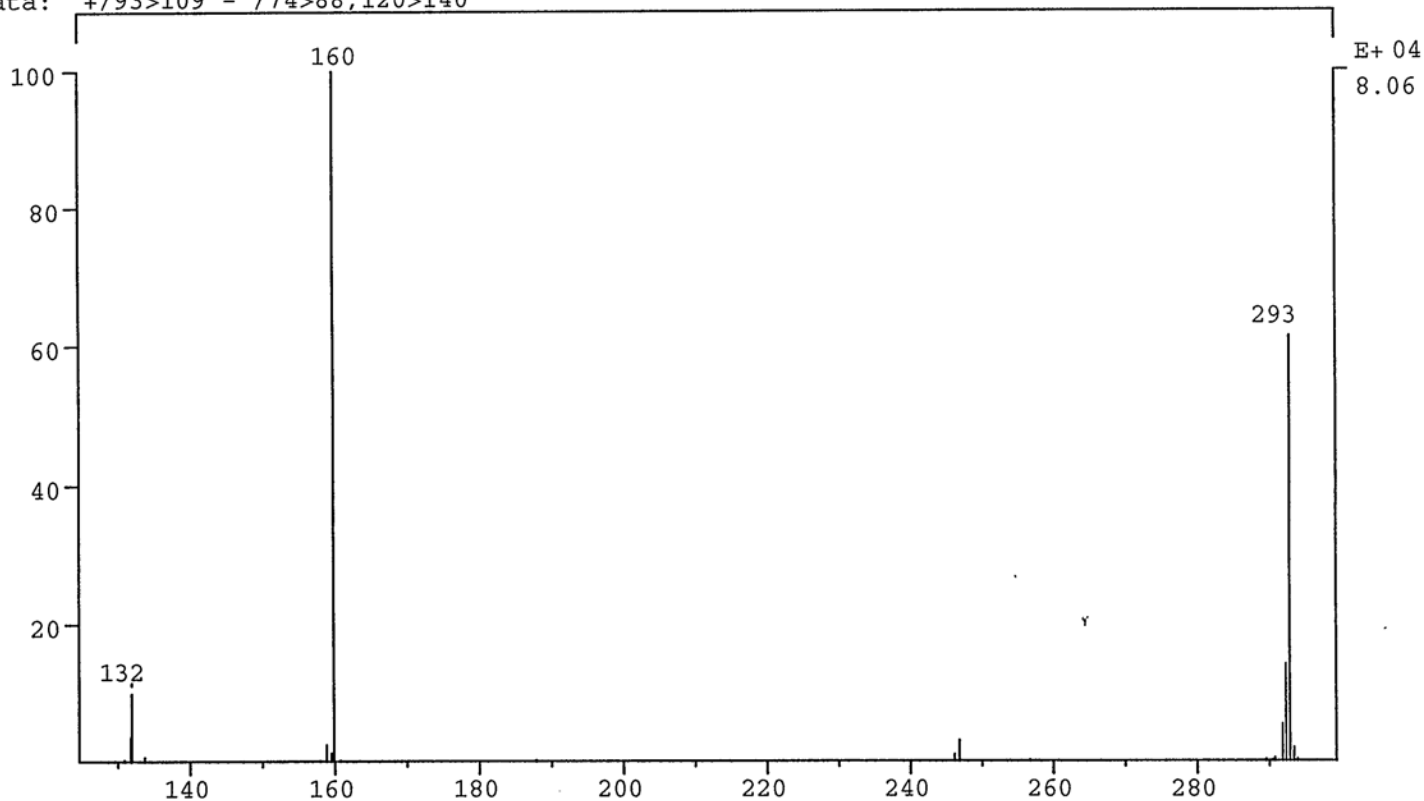
CHRO: bledt2ms3 07-FEB-95 Elapse: 00:01:17.2 140
Samp: BLOOD+EDTA DIL.10X,H2O EXTR.OF STAIN,MS Start : 10:13:58 156
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 156 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

b6 -1
b7C -1



SPEC: bledt2ms3 07-FEB-95 DERIVED SPECTRUM 9
Samp: BLOOD+EDTA DIL.10X,H2O EXTR.OF STAIN,MS Start : 10:13:58 156
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.9 Inten : 80596 Inlet :
Norm: 159.9 RIC : 168423 Masses: 128 > 296
Peak: 1000.00 mmu #peaks: 133
Data: +/93>109 - /74>88,120>140

b6 -1
b7C -1



FBI(24-cv-1564)-3402

CHRO: bloodctp
Samp: BLOOD CONTROL, H2O EXTR. OF STAIN
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +Q1MS LMR UP LR

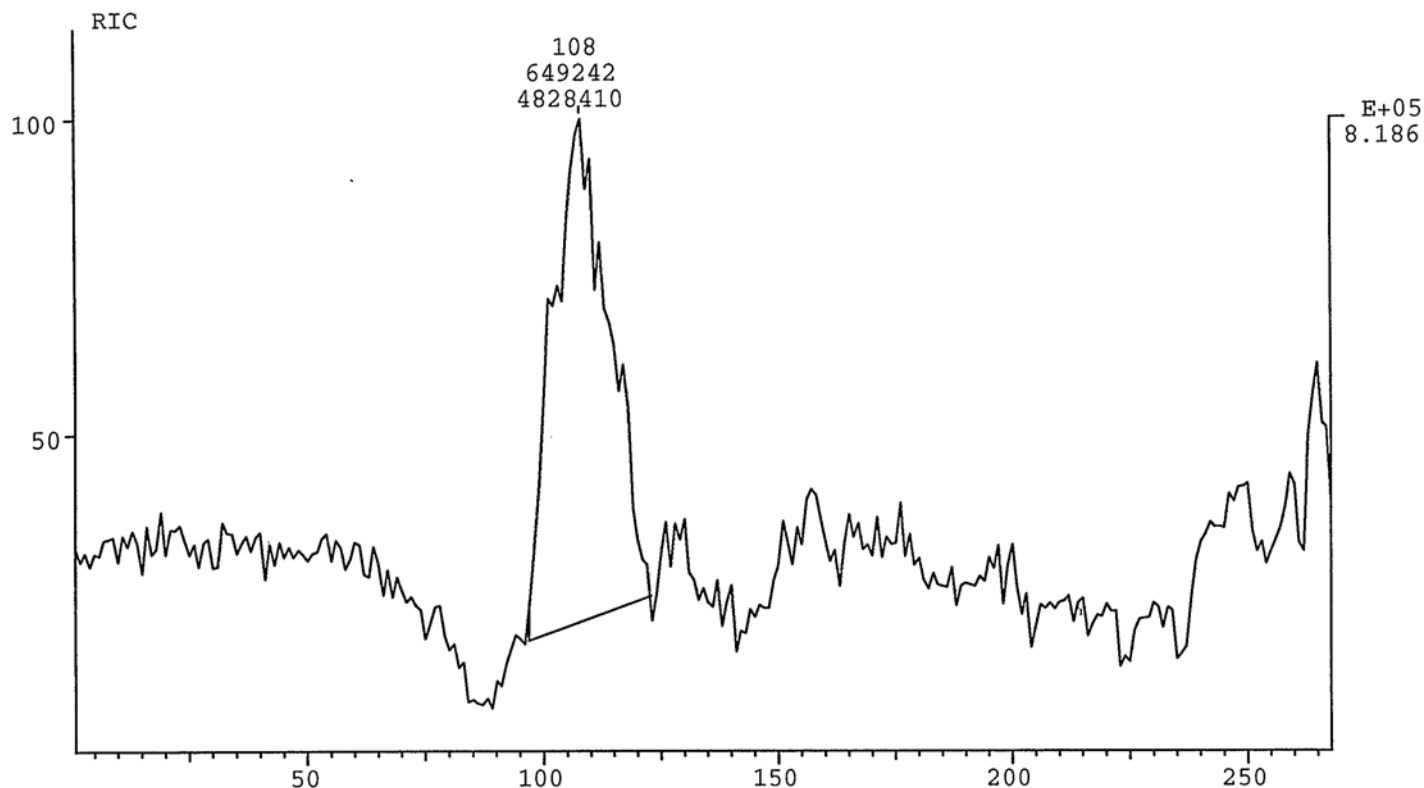
06-FEB-95

Elapse: 00:01:00.2 109
Start : 16:28:05 268

Oper:
Peak: 1000.00 mmu Label wndw: 1 > 268
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

Inlet :
Masses: 280 > 350
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3403

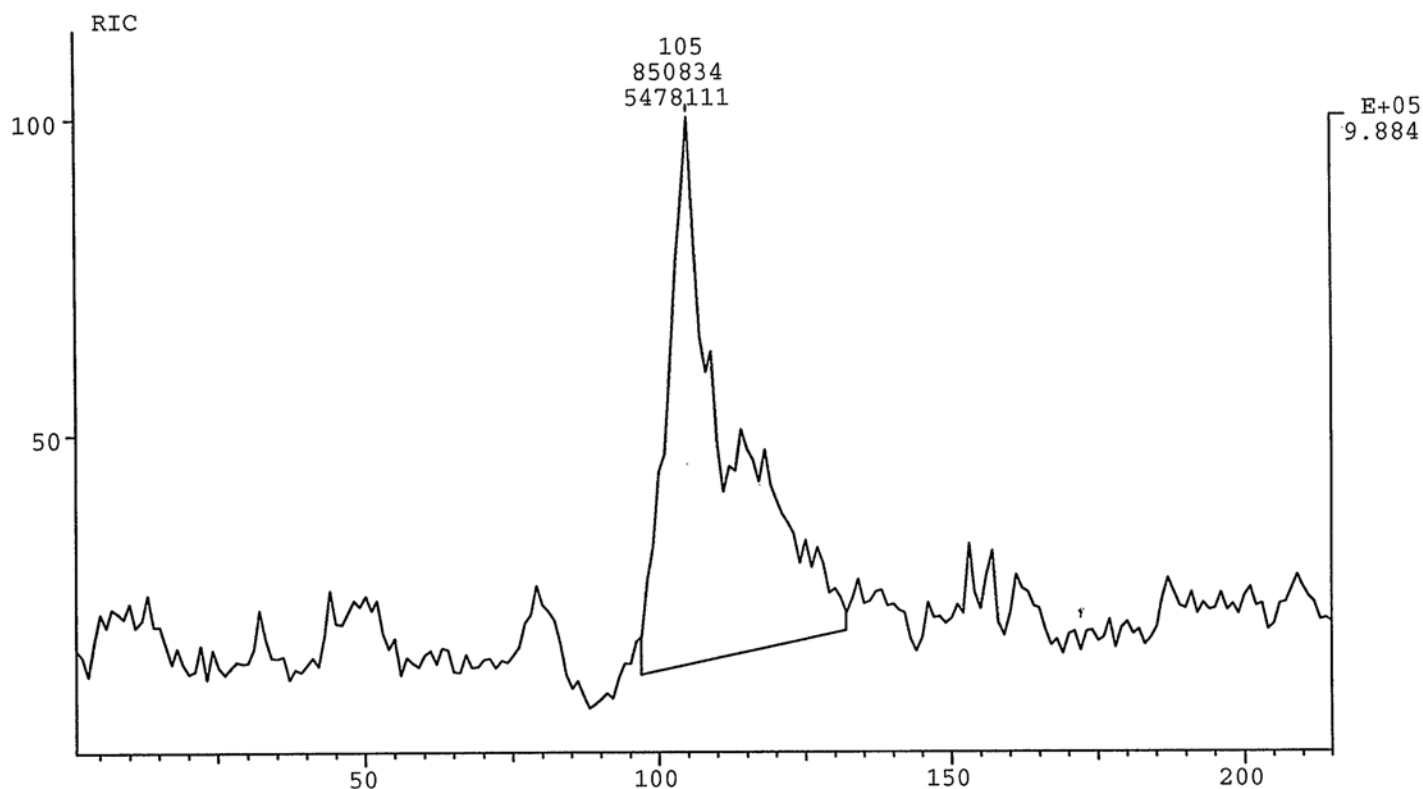
CHRO: bloodctp1
Samp: BLOOD CONTROL, H2O EXTR. OF STAIN
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

06-FEB-95

Elapse: 00:01:00.2 109
Start : 16:42:42 215

Inlet :
Masses: 280 > 350
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3404

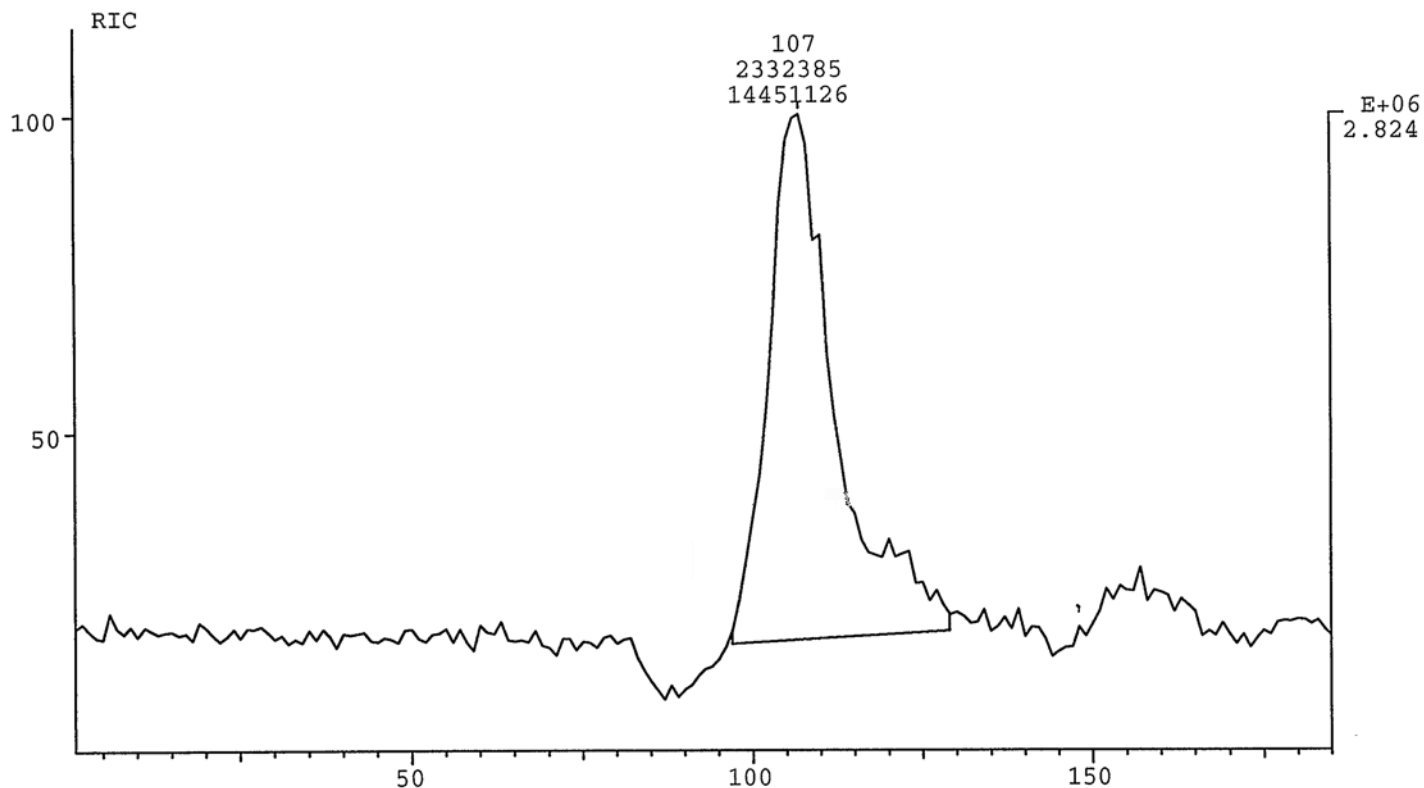
CHRO: bloodctp2
Samp: BLOOD CONTROL, H2O EXTR. OF STAIN
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +QlMS LMR UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

06-FEB-95

Elapse: 00:00:58.7 107
Start : 16:50:15 185

Inlet :
Masses: 280 > 350
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3405

SPEC: bloodctp2
Samp: BLOOD CONTROL, H2O EXTR. OF STAIN
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +Q1MS LMR UP LR
Oper:
Base: 293.1
Norm: 293.1
Peak: 1000.00 mmu

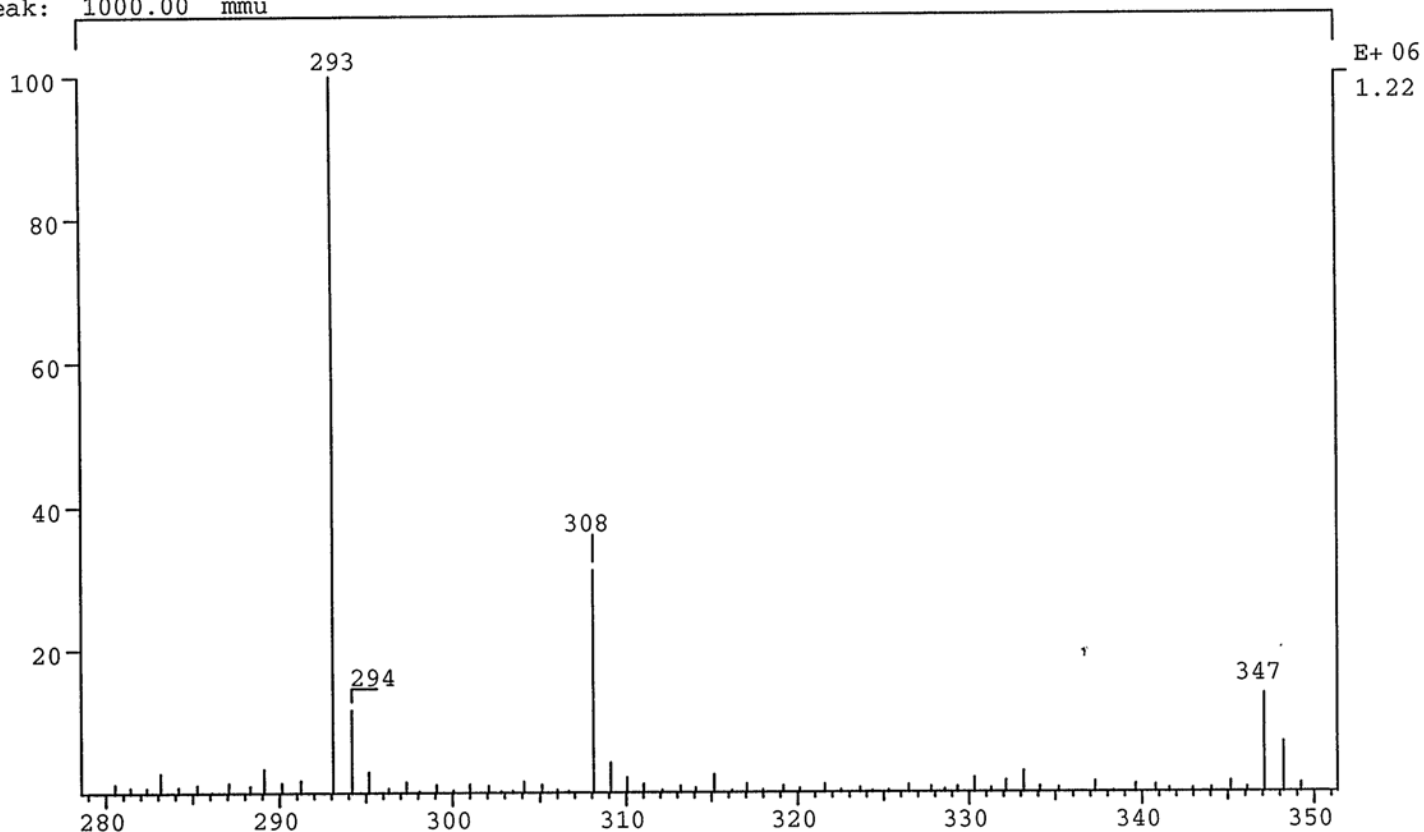
06-FEB-95

Elapse: 00:00:58.7 107
Start : 16:50:15 185

Inten : 1217086
RIC : 2823909

Inlet :
Masses: 280 > 350
#peaks: 69

b6 -1
b7c -1



FBI(24-cv-1564)-3406

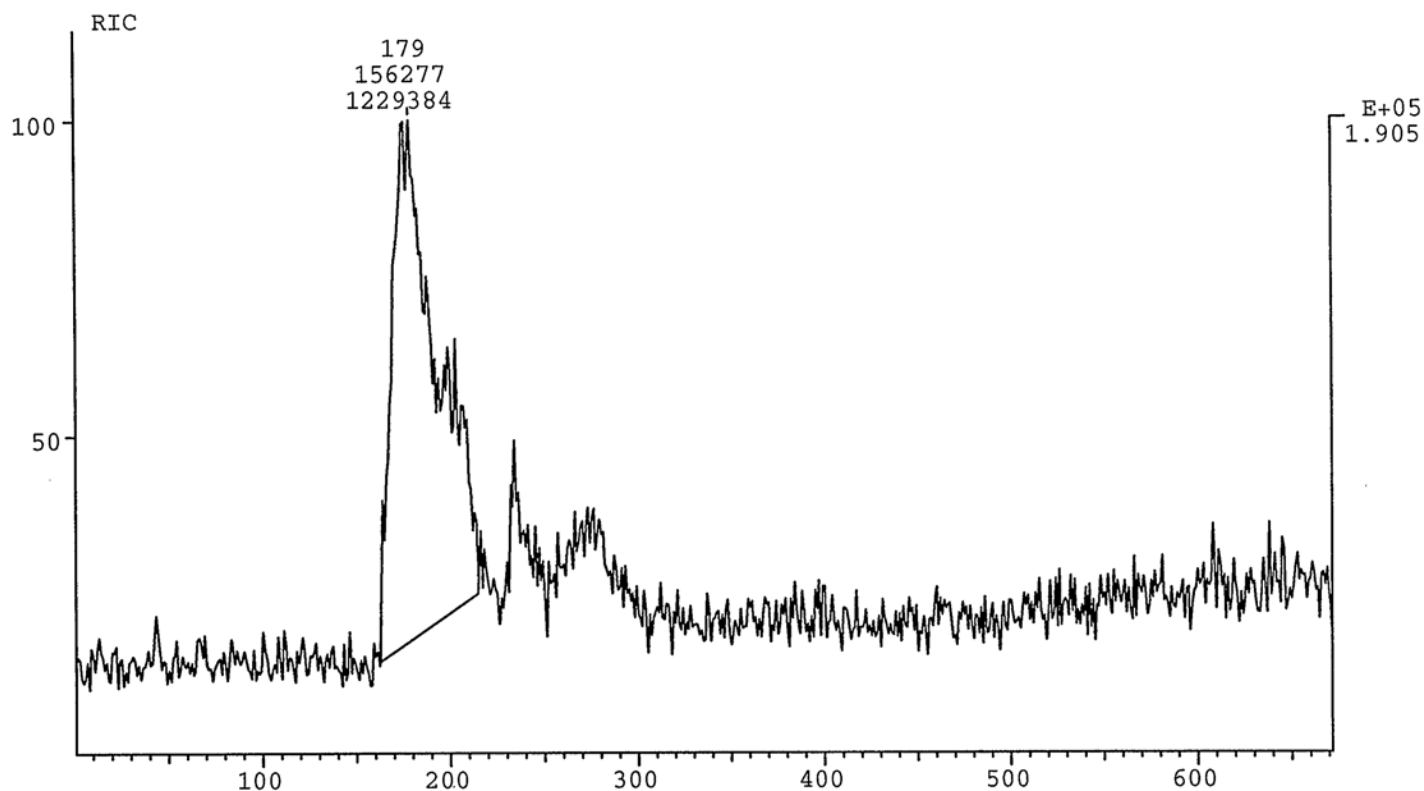
CHRO: bloode
Samp: BLOOD + EDTA, H2O EXT. OF STAIN
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 672
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95

Elapse: 00:01:06.8 230
Start : 16:34:19 672

Inlet :
Masses: 285 > 350
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3407

SPEC: bloode
Samp: BLOOD + EDTA, H2O EXT. OF STAIN
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 343.9
Norm: 343.9
Peak: 1000.00 mmu
Data: +/-165>211 - /94>150,216>230

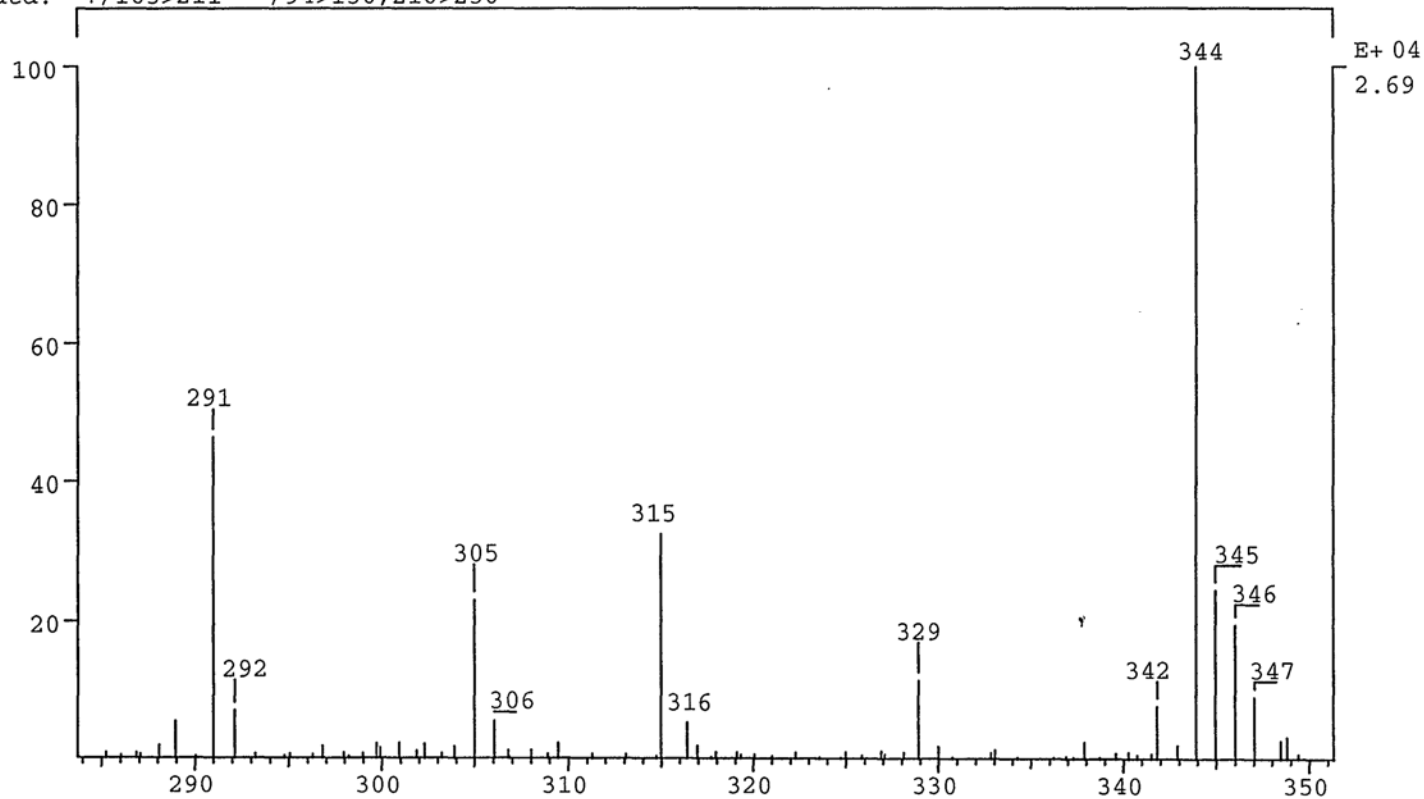
03-FEB-95

DERIVED SPECTRUM
Start : 16:34:19

9
672

Inlet :
Masses: 285 > 350
#peaks: 81

b6 -1
b7C -1



FBI(24-cv-1564)-3408

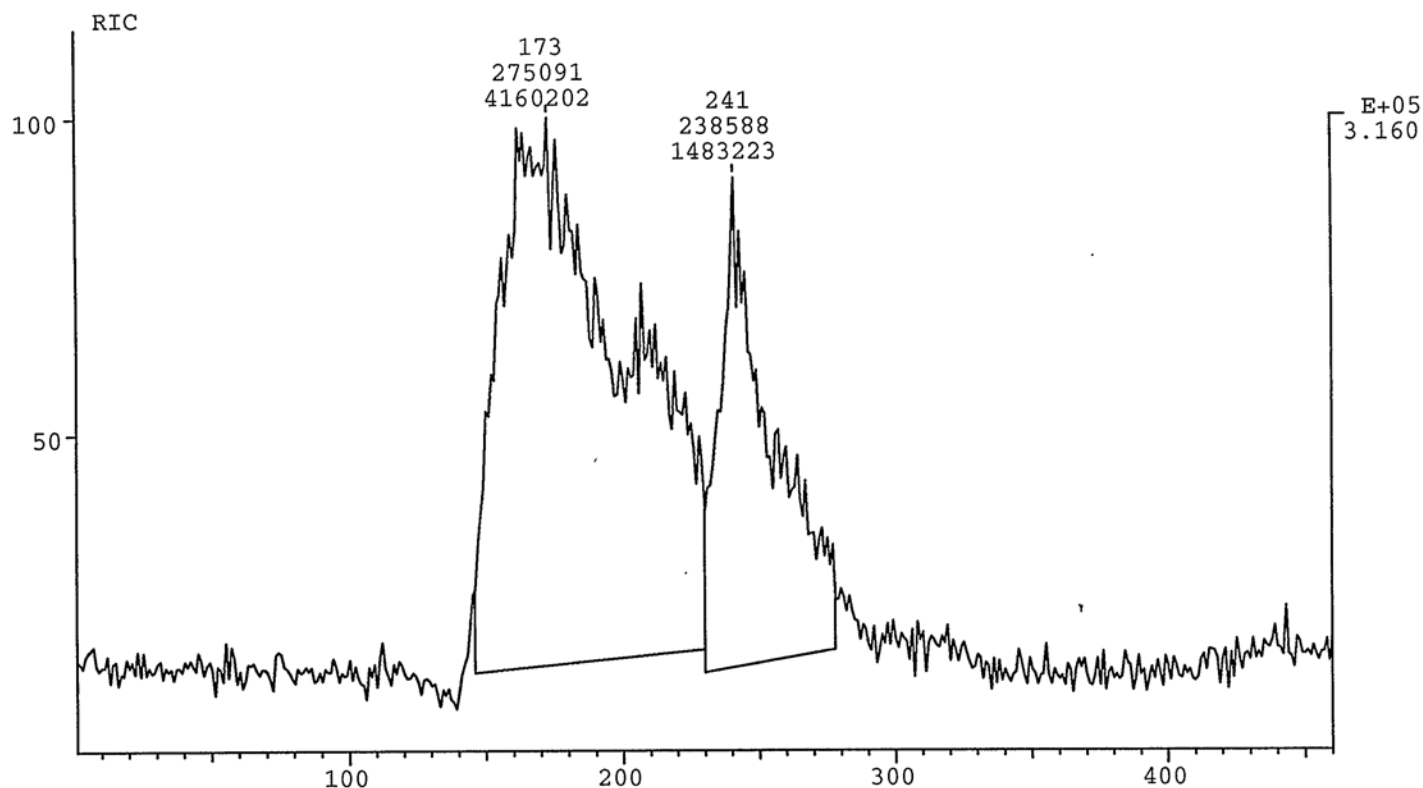
CHRO: bloodel
Samp: BLOOD + EDTA, H2O EXT. OF STAIN
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

03-FEB-95

Elapse: 00:01:10.5 240
Start : 16:38:29 460

Inlet :
Masses: 285 > 350
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3409

SPEC: bloode1
Samp: BLOOD + EDTA, H2O EXT. OF STAIN
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 291.1 Inten : 36028
Norm: 291.1 RIC : 164169
Peak: 1000.00 mmu
Data: +/-150>227 - /95>137,230>240

03-FEB-95

DERIVED SPECTRUM

9

Start : 16:38:29

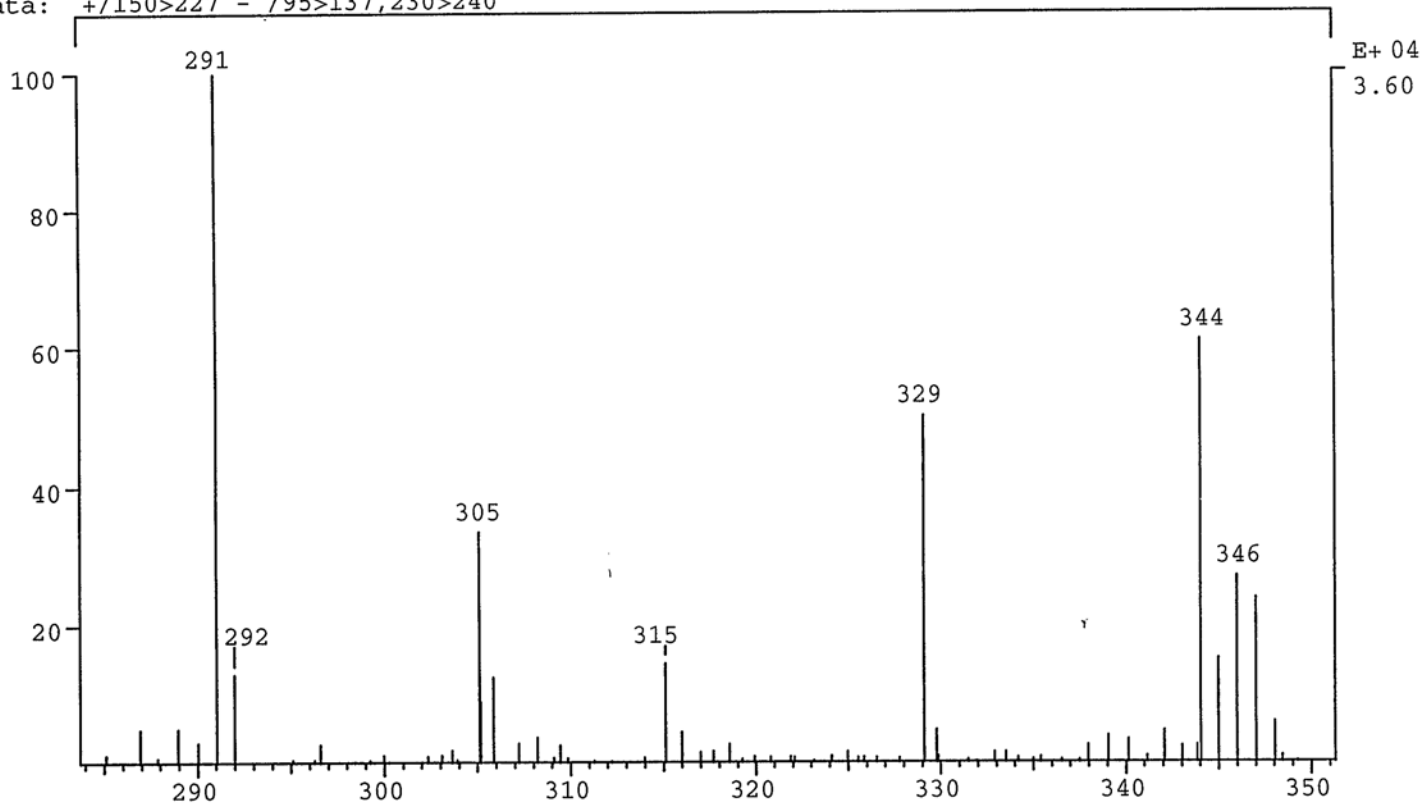
460

Inlet :

Masses: 285 > 350

#peaks: 77

b6 -1
b7c -1



FBI(24-cv-1564)-3410

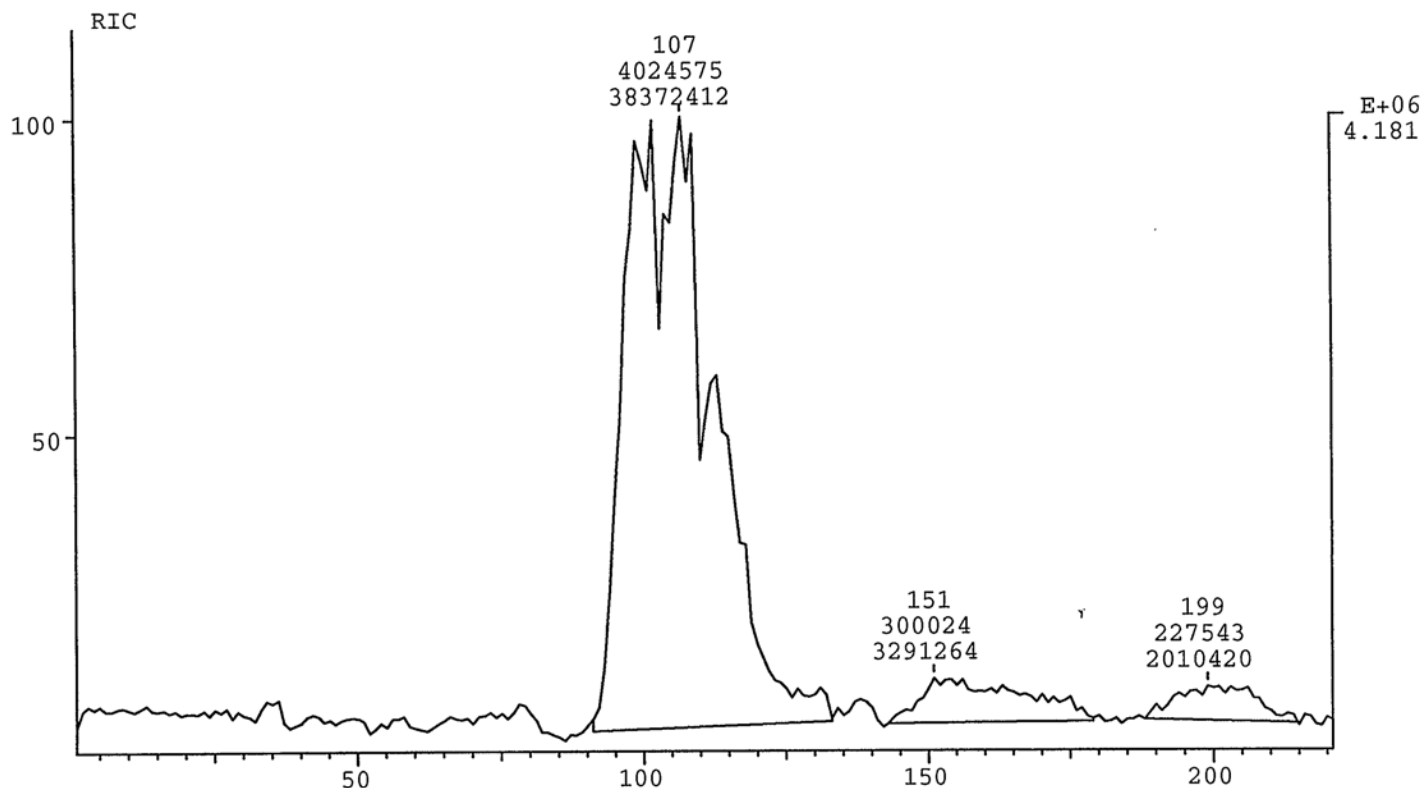
CHRO: bloodedp
Samp: BLOOD + EDTA, H2O EXTR. OF STAIN
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

06-FEB-95

Elapse: 00:01:21.2 147
Start : 16:18:45 221

Inlet :
Masses: 280 > 350
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3411

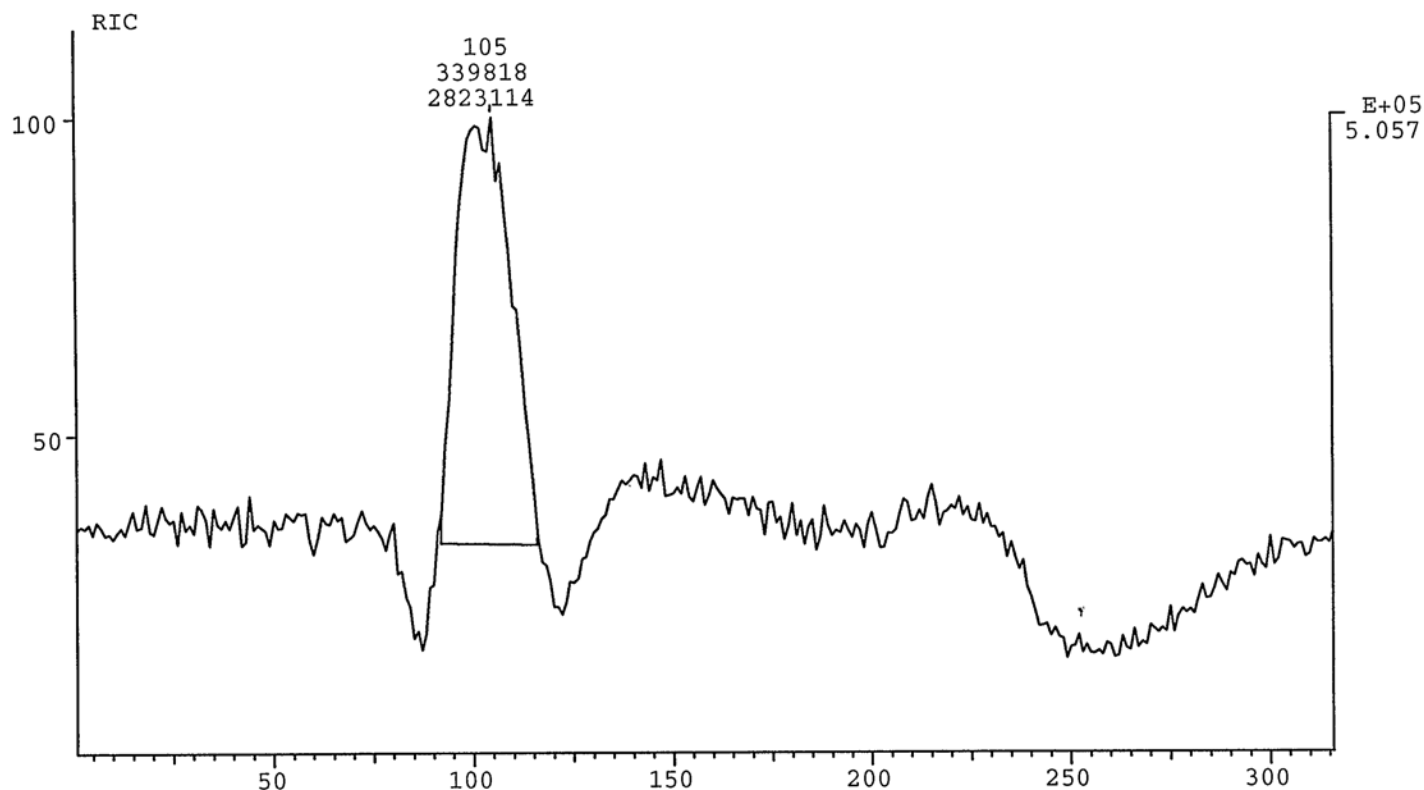
CHRO: bloodedt
Samp: BLOOD + EDTA, H2O EXTR. OF STAIN
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu
Area: 80, 4.00
Disp: Height Area

06-FEB-95

Elapse: 00:01:20.2 146
Start : 16:05:15 316

Inlet :
Masses: 280 > 350
Label : 15, 40.00

b6 -1
b7c -1



E+05
5.057

FBI(24-cv-1564)-3412

SPEC: bloodedt
Samp: BLOOD + EDTA, H2O EXTR. OF STAIN
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 291.0
Norm: 291.0
Peak: 1000.00 mmu
Data: +/94>115 - /62>89,121>146

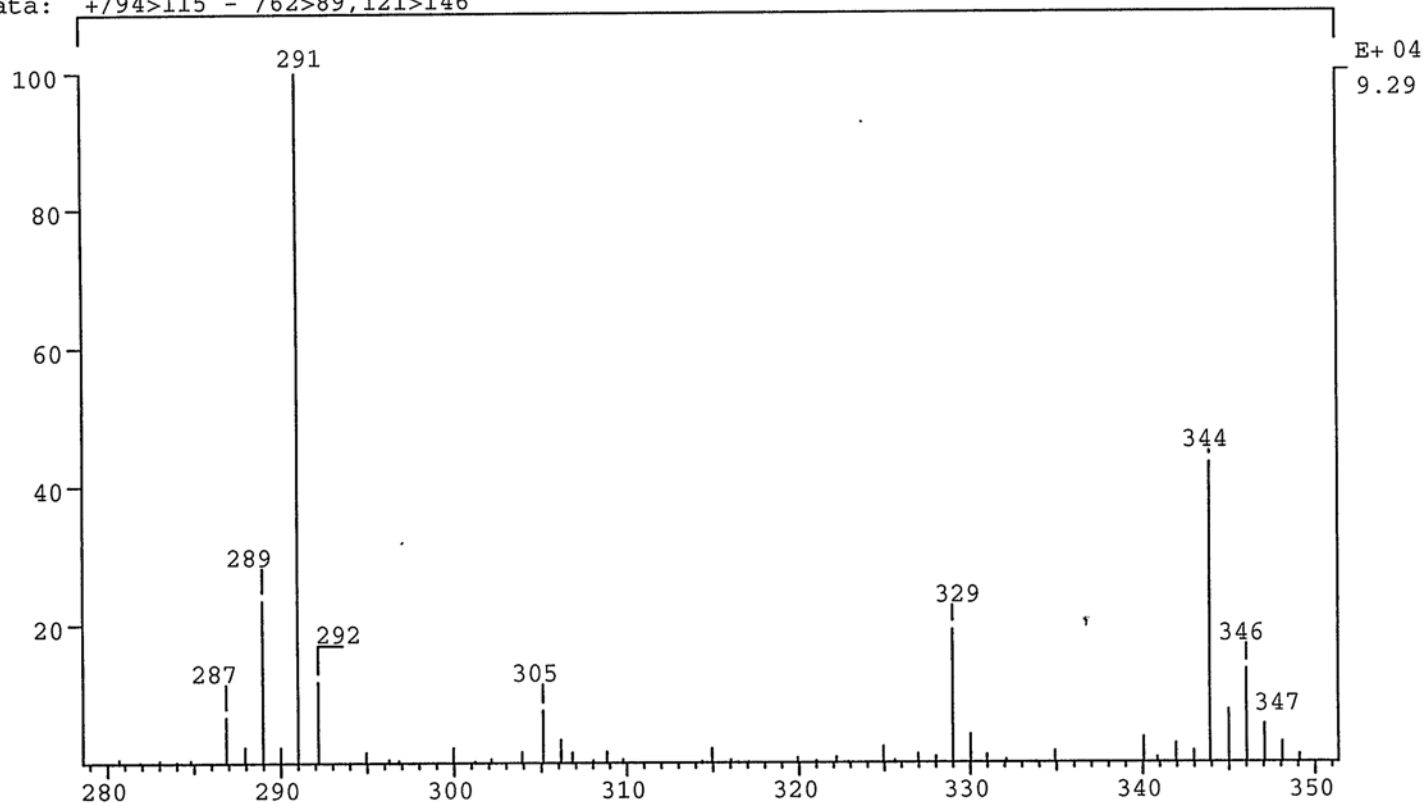
06-FEB-95

DERIVED SPECTRUM
Start : 16:05:15

9
316

Inlet :
Masses: 280 > 350
#peaks: 59

b6 -1
b7c -1

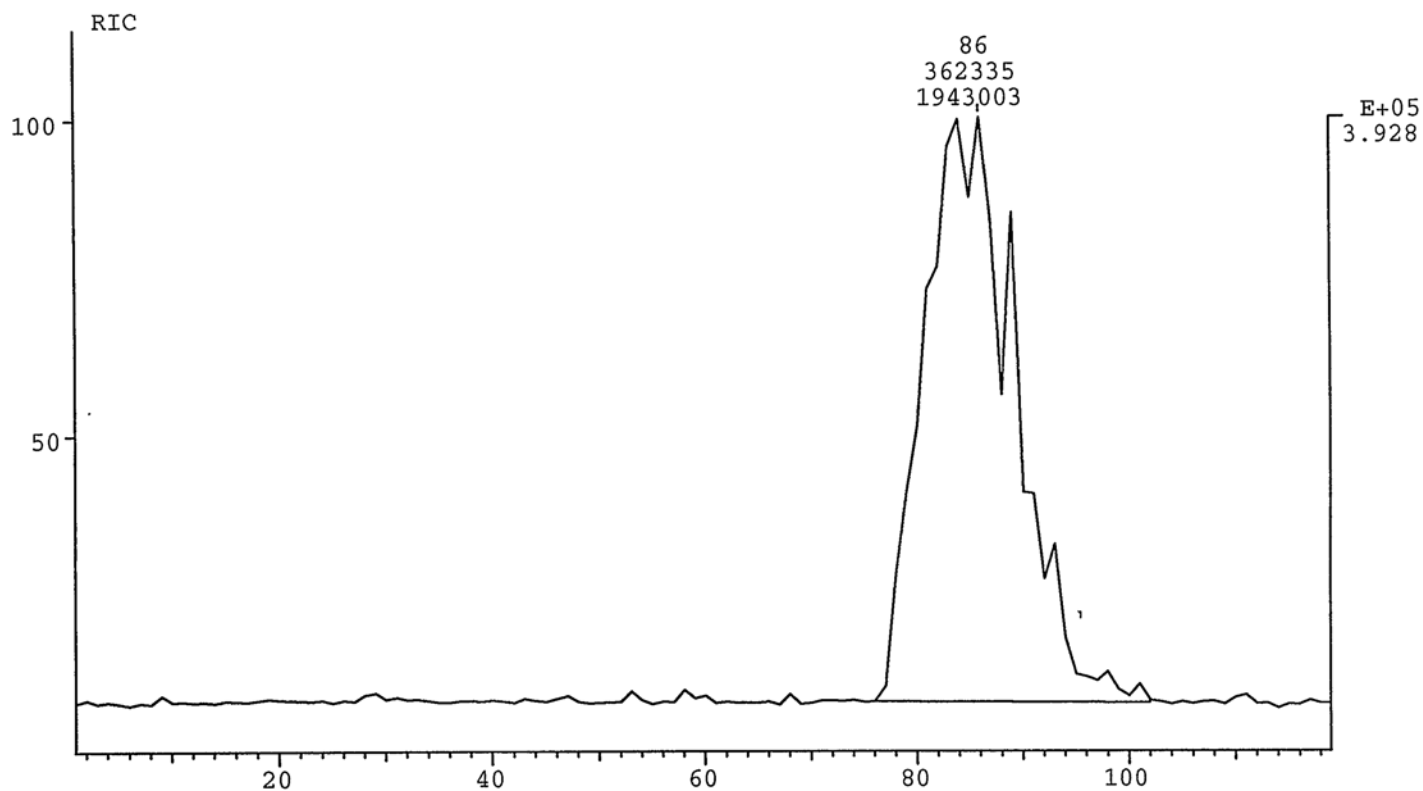


FBI(24-cv-1564)-3413

CHRO: edta2ms 07-FEB-95 Elapse: 00:01:05.3 118
Samp: EDTA 100 NG IN 1 UL, DI-NA SALT,CID=-20 Start : 09:28:27 119
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 119
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

Inlet :
Masses: 30 > 320
Label : 15, 40.00

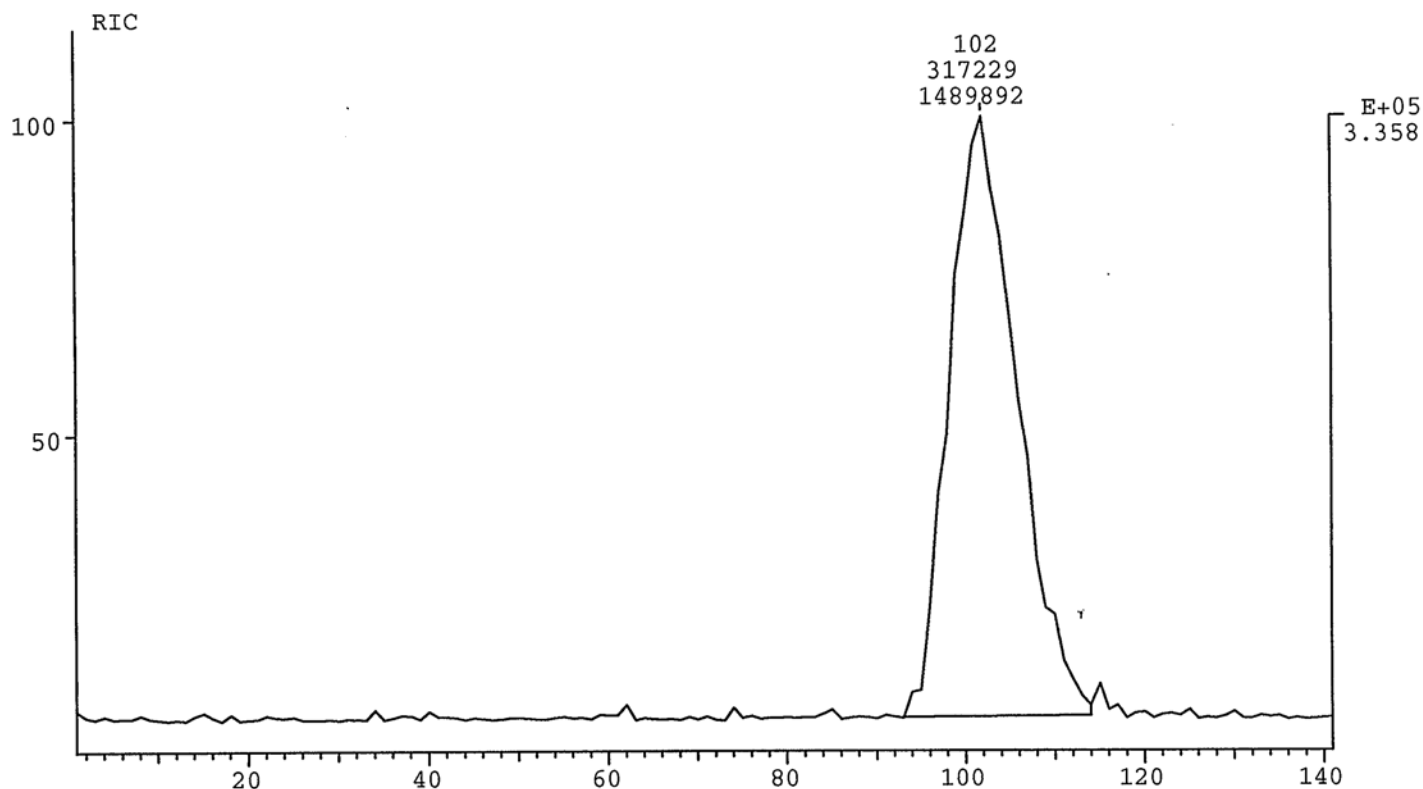
b6 -1
b7C -1



FBI(24-cv-1564)-3414

CHRO: edta2ms1 07-FEB-95 Elapse: 00:01:13.6 134
Samp: EDTA 100 NG IN 1 UL, DI-NA SALT,CID=-20 Start : 09:34:18 141
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: EST +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 141 Inlet :
Area: 80, 4.00 Baseline : 0, 401 Masses: 128 > 296
Disp: Height Area Label : 15, 40.00

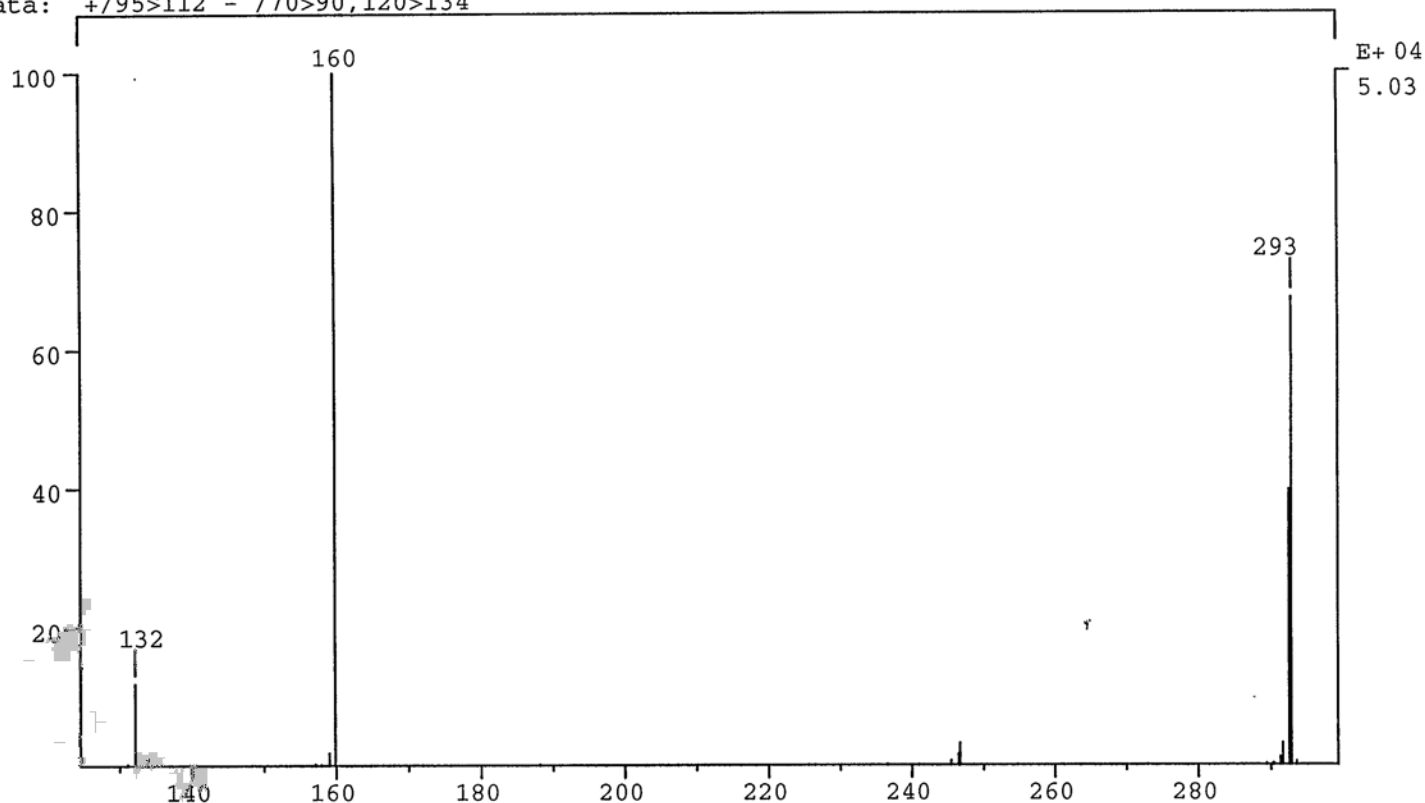
b6 -1
b7C -1



FBI(24-cv-1564)-3415

SPEC: edta2ms1 07-FEB-95 DERIVED SPECTRUM 9
Samp: EDTA 100 NG IN 1 UL, DI-NA SALT,CID=-20 Start : 09:34:18 141
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.9 Inten : 50298 Inlet :
Norm: 159.9 RIC : 155273 Masses: 128 > 296
Peak: 1000.00 mmu #peaks: 140
Data: +/95>112 - /70>90,120>134

b6 -1
b7c -1



FBI(24-cv-1564)-3416

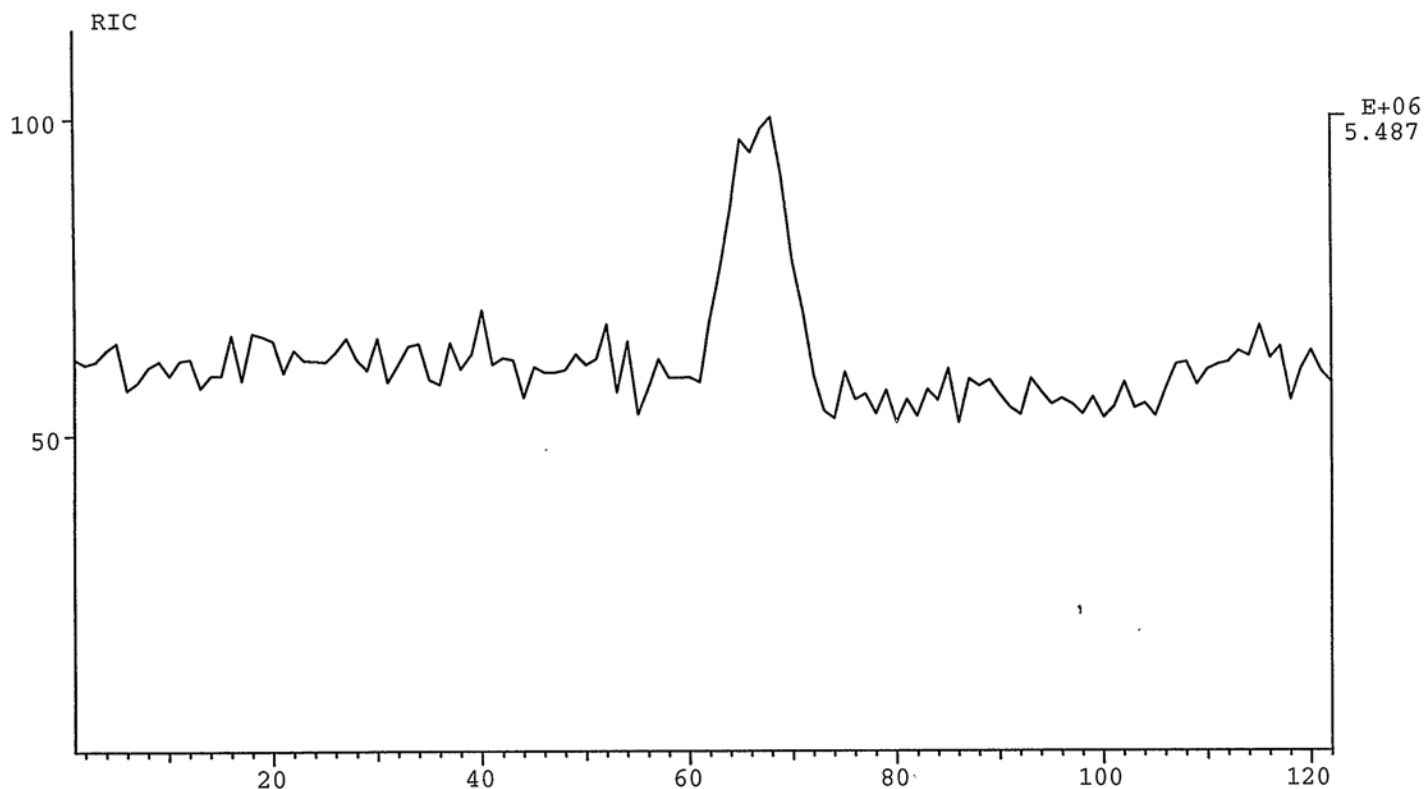
CHRO: edtaa1
Samp: EDTA 500 NG IN 5 UL, DI-NA SALT
Comm: ACN/5mM HOAC 5:95 PRP-1 2.1X150MM
Mode: ESI +Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 122
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

06-FEB-95

Elapse: 00:01:35.2 90
Start : 10:59:30 122

Inlet :
Masses: 100 > 650
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3417

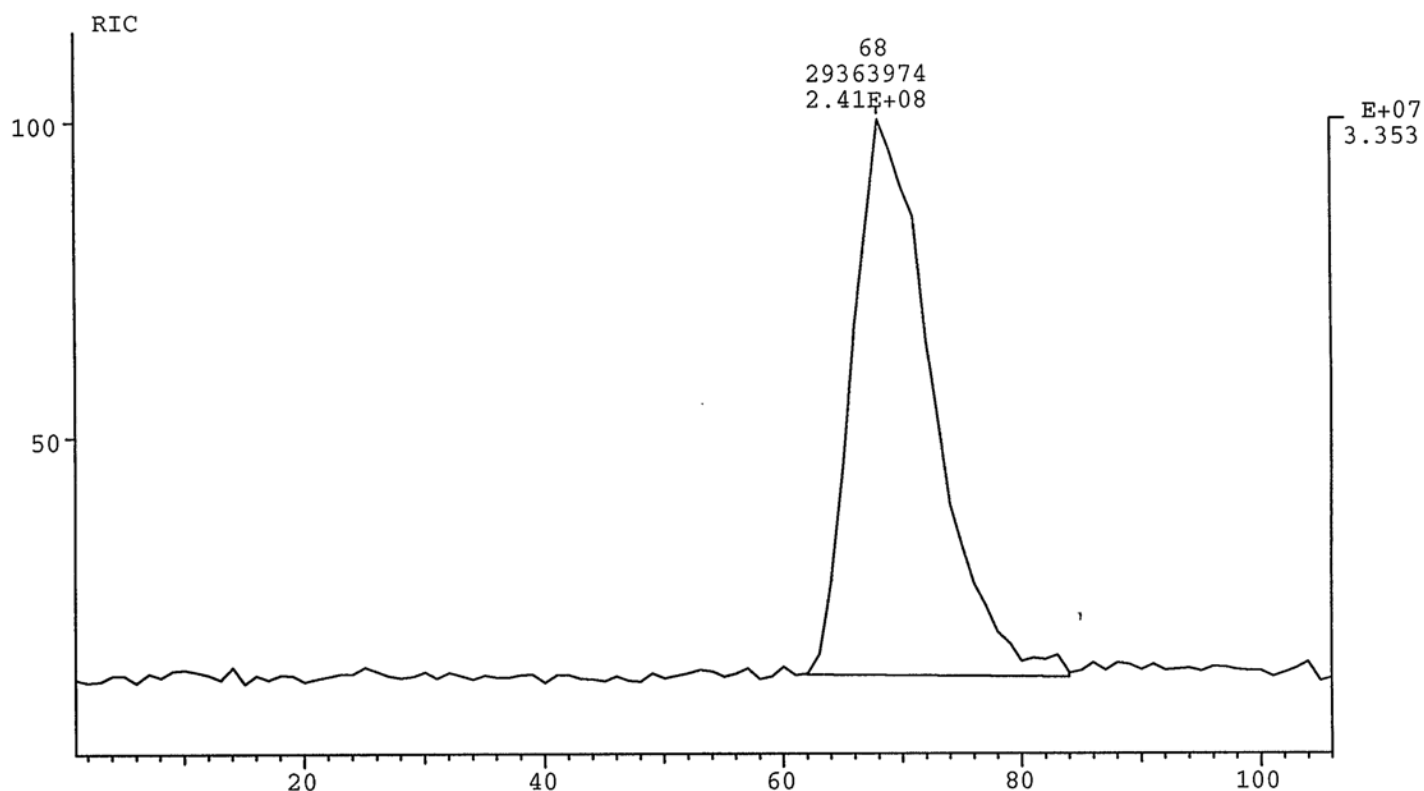
CHRO: edtaa2
Samp: EDTA 50 NG IN 5 UL, DI-NA SALT
Comm: ACN/5mM HOAC 5:95 PRP-1 2.1X150MM
Mode: ESI +Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label.wndw: 1 > 106
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

06-FEB-95

Elapse: 00:01:43.6 97
Start : 11:19:08 106

Inlet :
Masses: 140 > 650
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3418

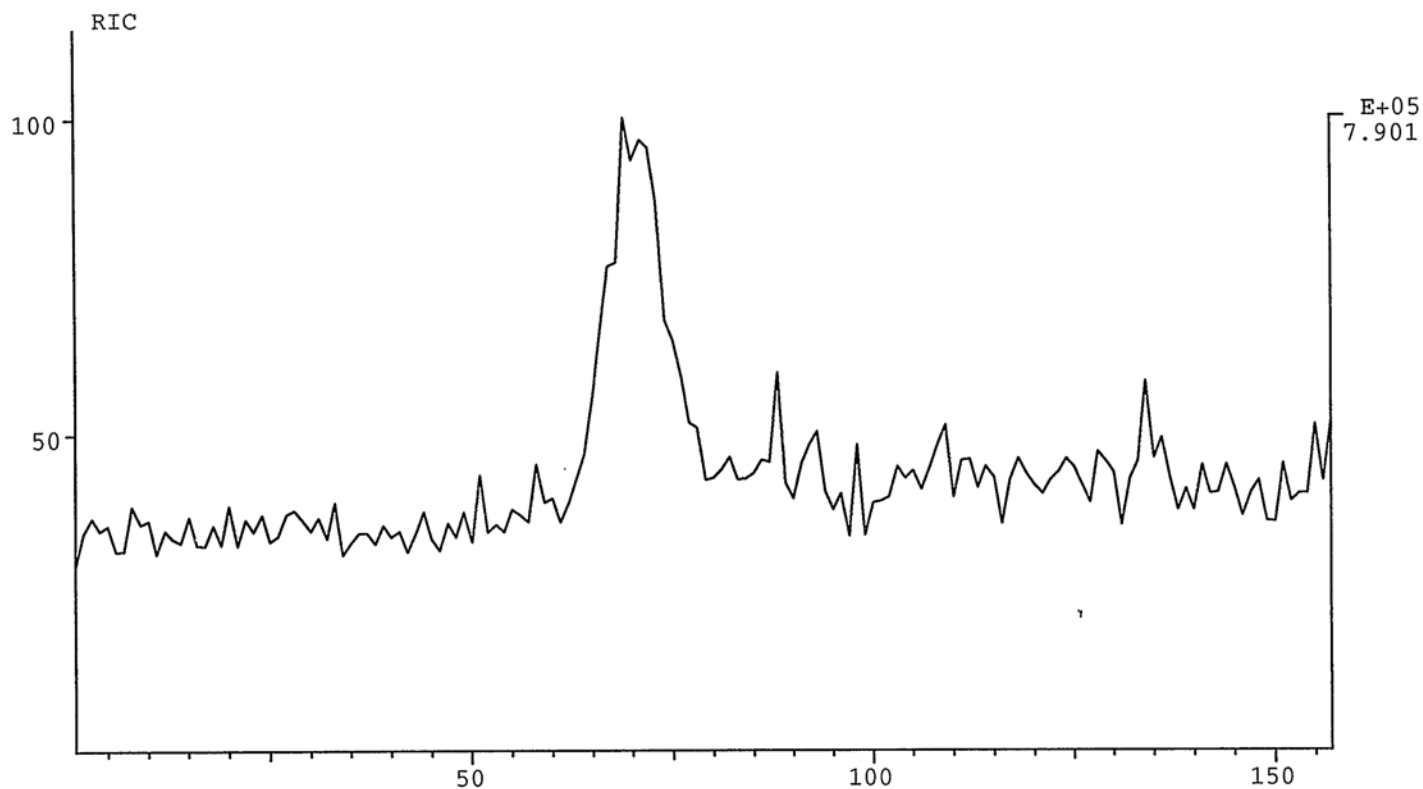
CHRO: edtaa3
Samp: EDTA 50 NG IN 5 UL, DI-NA SALT
Comm: ACN/5mM HOAC 5:95 PRP-1 2.1X150MM
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 157
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

06-FEB-95

Elapse: 00:01:49.5 103
Start : 11:21:30 157

Inlet :
Masses: 140 > 650
Label : 15, 40.00

b6 -1
b7C -1



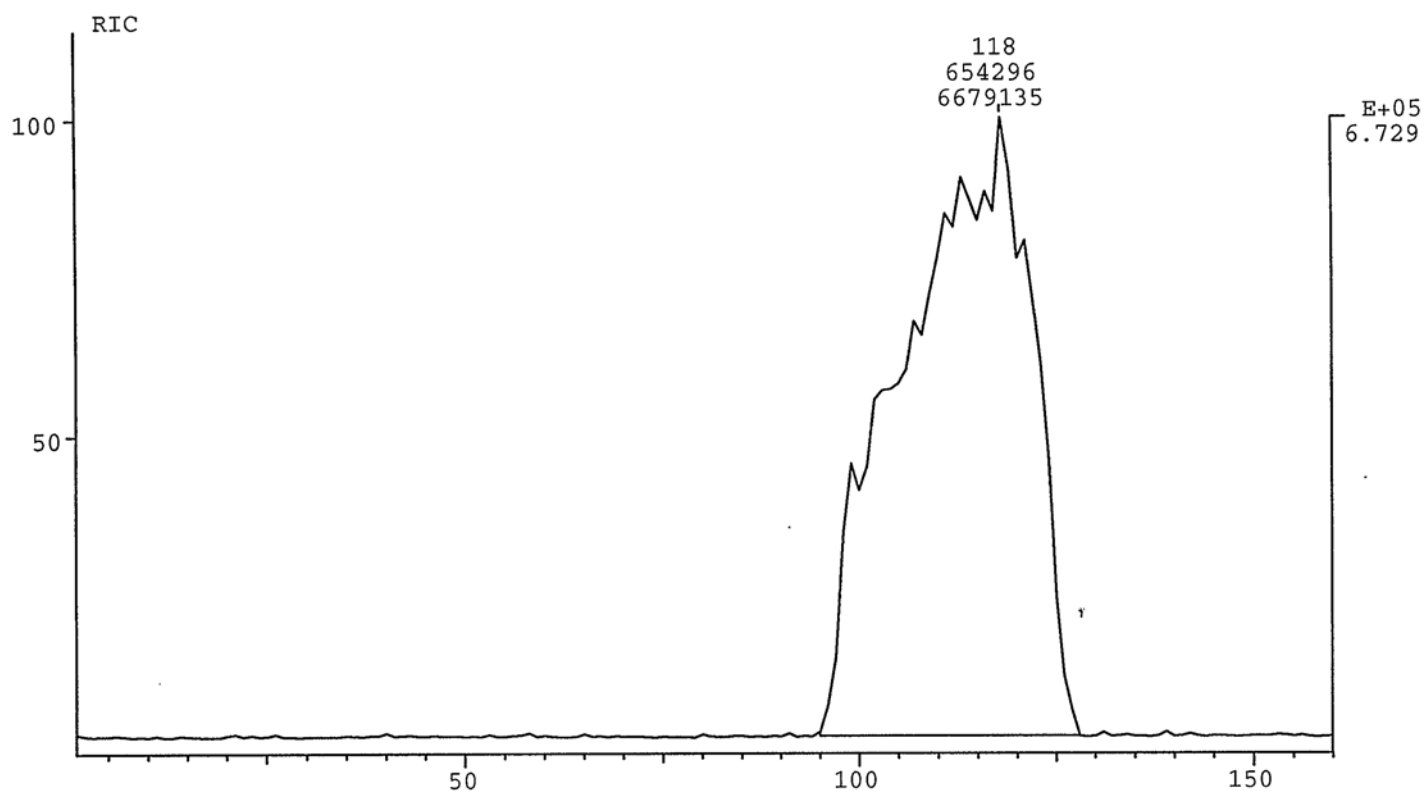
FBI(24-cv-1564)-3419

CHRO: edtacul
Samp: EDTA 50PPM IN 1UL W/ CUSO4 .025M
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 160
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

07-FEB-95 Elapse: 00:01:21.4 148
Start : 10:44:00 160

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3420

SPEC: edtacul
Samp: EDTA 50PPM IN 1UL W/ CUSO4 .025M
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 292.7 Inten : 134051
Norm: 292.7 RIC : 447709
Peak: 1000.00 mmu
Data: +/99>125 - /74>91,133>148

07-FEB-95

DERIVED SPECTRUM

9

Start : 10:44:00

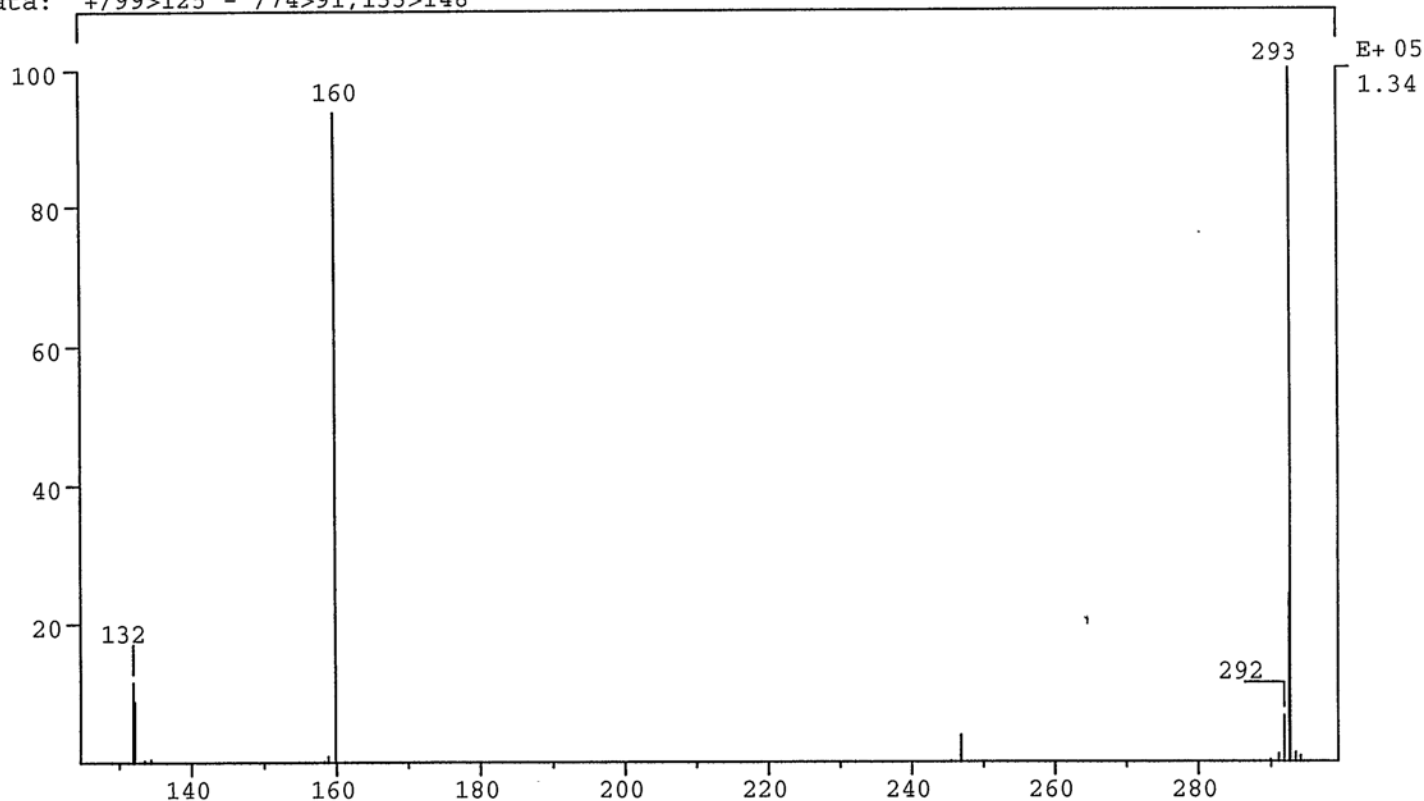
160

Inlet :

Masses: 128 > 296

#peaks: 146

b6 -1
b7c -1



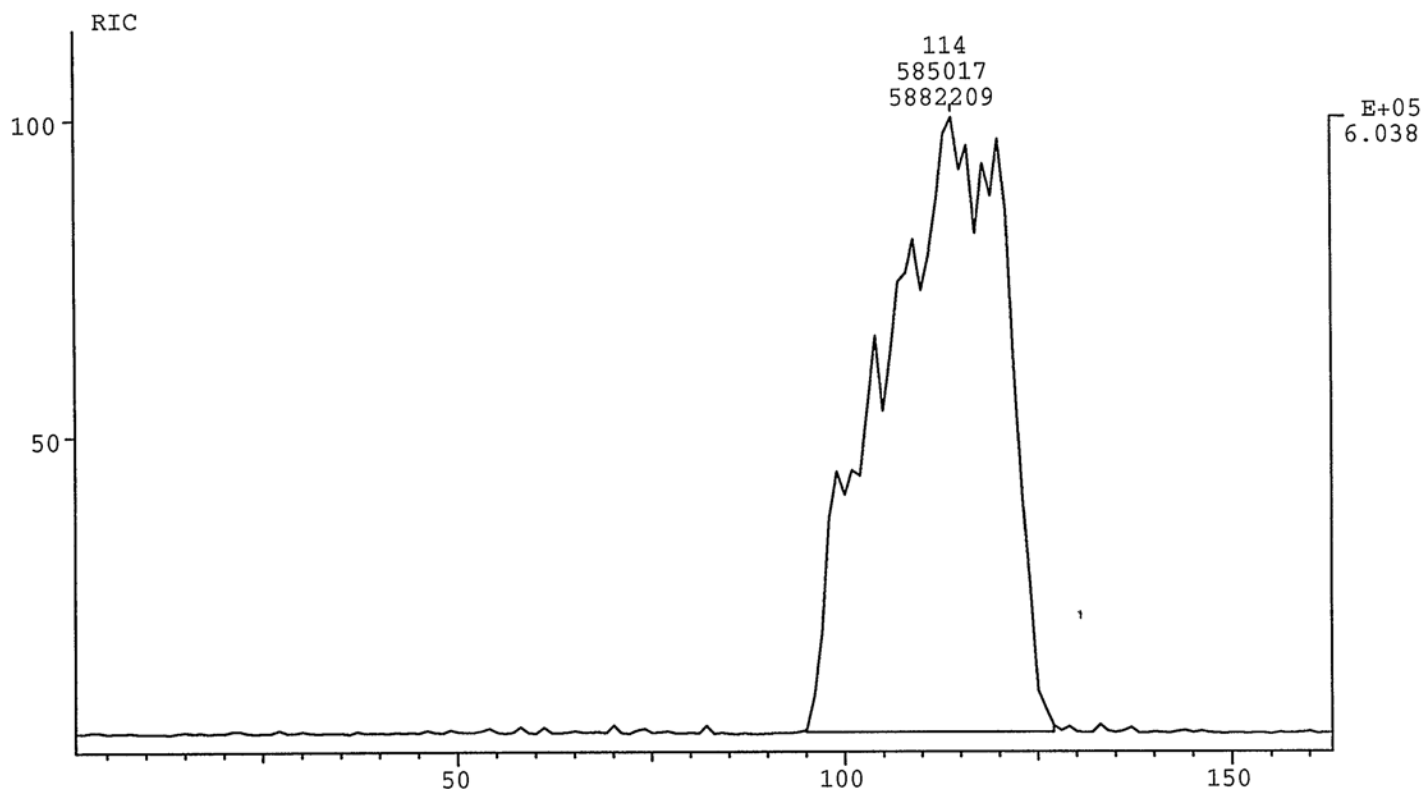
FBI(24-cv-1564)-3421

CHRO: edtacu2
Samp: EDTA 50PPM IN 1UL W/ CUSO4 .025M
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU LMR GAS UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 163
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

07-FEB-95 Elapse: 00:01:22.1 149
Start : 11:13:16 163

Inlet :
Masses: 128 > 296
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3422

SPEC: edtacu2
Samp: EDTA 50PPM IN 1UL W/ CUSO4 .025M
Comm: ACN/10mM NH3 5:95 PRP-1 2.1X150mm
Mode: ESI +DAU 293.0 @ -20eV LMR GAS UP LR
Oper:
Base: 159.8
Norm: 159.8
Peak: 1000.00 mmu
Data: +/97>125 - /75>91,131>149

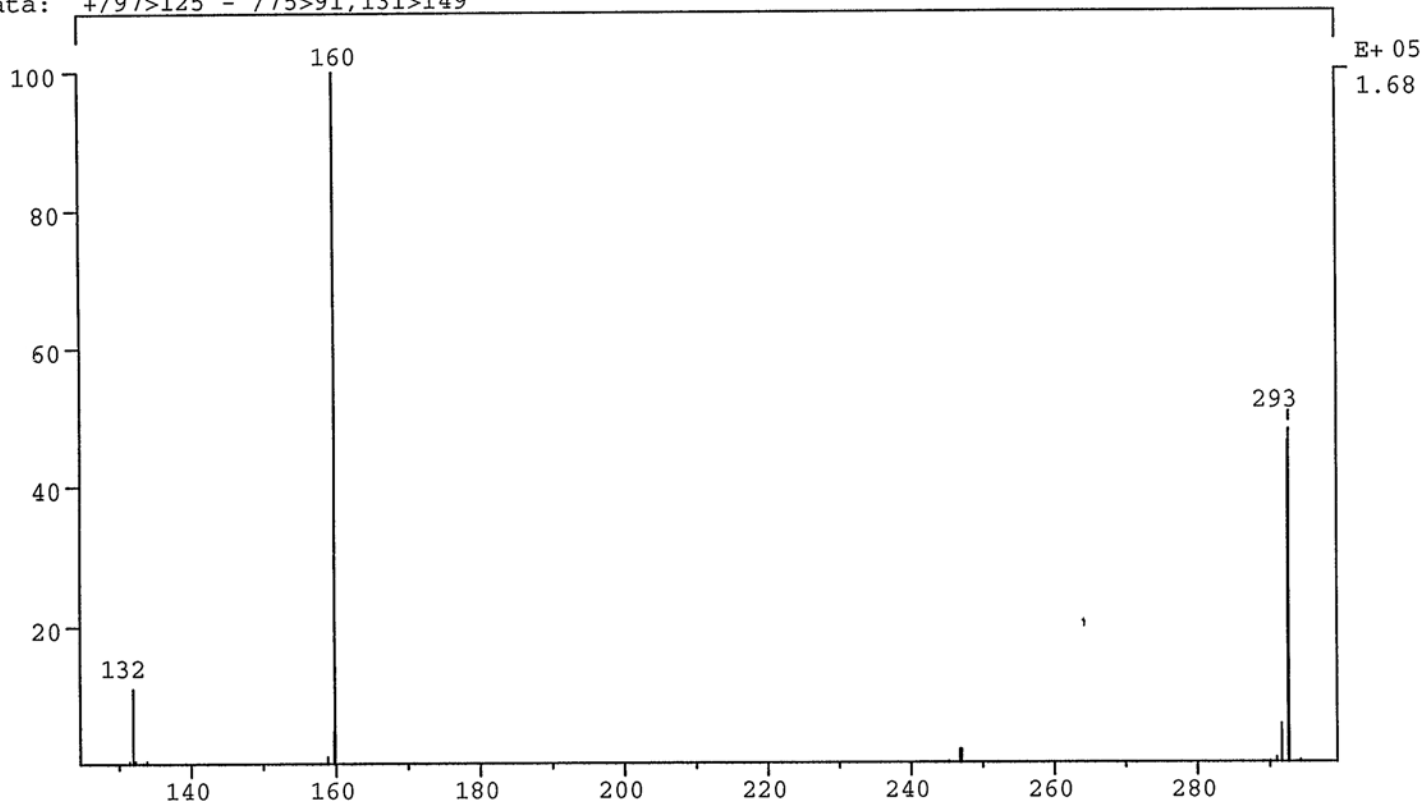
07-FEB-95

DERIVED SPECTRUM
Start : 11:13:16

9
163

Inlet :
Masses: 128 > 296
#peaks: 145

b6 -1
b7c -1



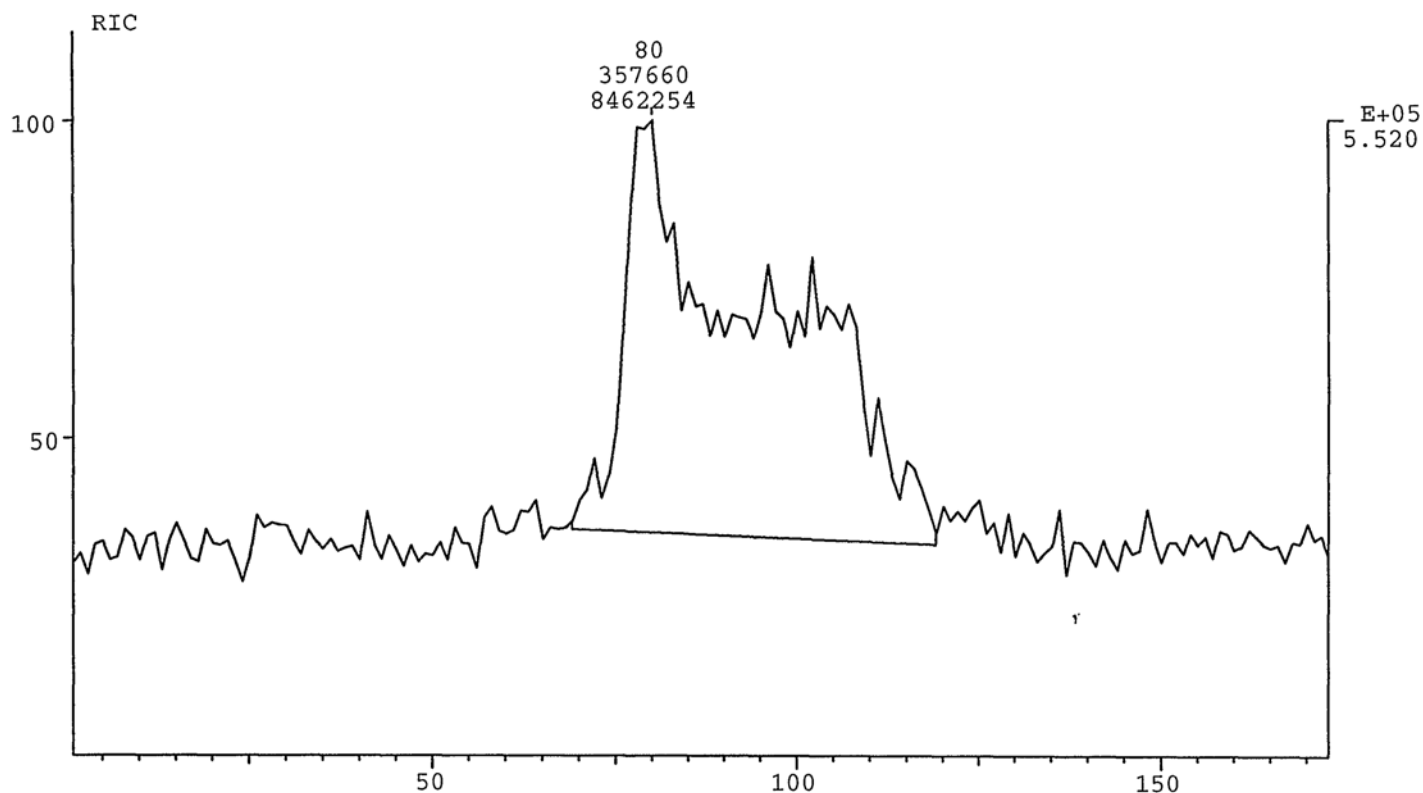
FBI(24-cv-1564)-3423

CHRO: edtah2o
Samp: EDTA 50 NG IN 5 UL, DI-NA SALT
Comm: ACN/H2O 5:95 PRP-1 2.1X150mm
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 173
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

06-FEB-95 Elapse: 00:02:51.5 163
Start : 14:36:37 173

Inlet :
Masses: 140 > 650
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3424

SPEC: edtah2o
Samp: EDTA 50 NG IN 5 UL, DI-NA SALT
Comm: ACN/H2O 5:95 PRP-1 2.1X150mm
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 216.9
Norm: 216.9
Peak: 1000.00 mmu
Data: +/76>110 - /47>64,138>173

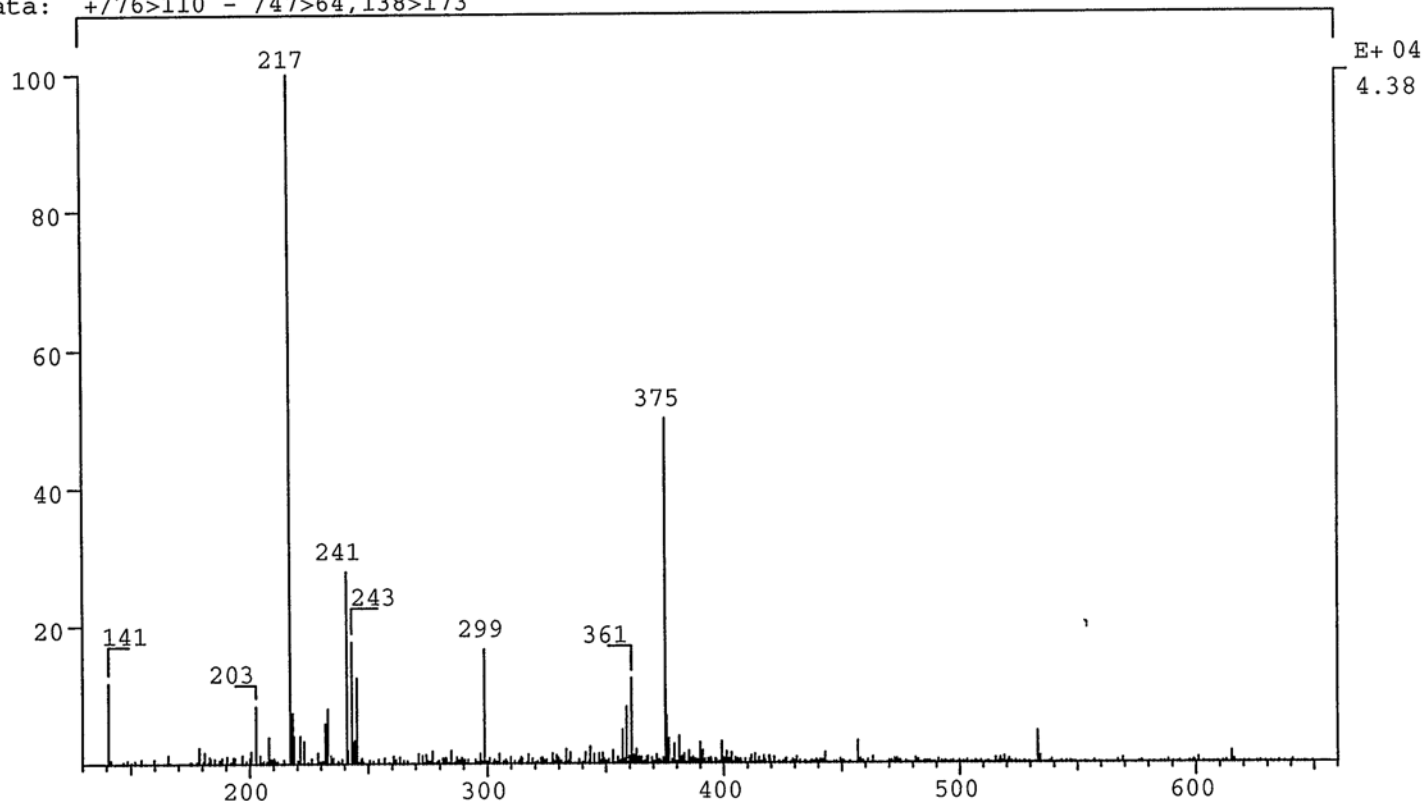
06-FEB-95

DERIVED SPECTRUM
Start : 14:36:37

9
173

Inlet :
Masses: 140 > 650
#peaks: 559

b6 -1
b7c -1



FBI(24-cv-1564)-3425

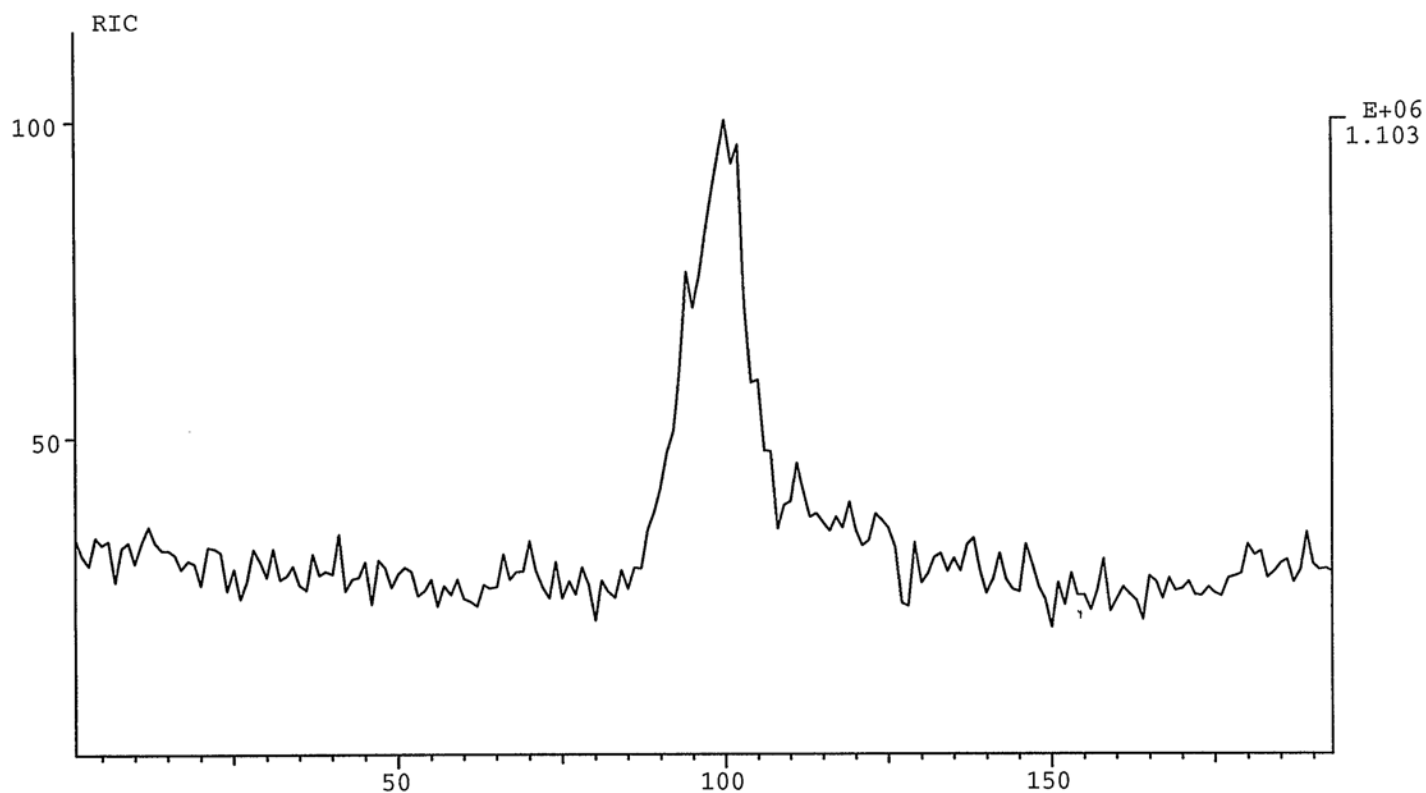
CHRO: edtalc
Samp: EDTA 500 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 193
Area: 80, 4.00 Baseline 0, 401
Disp: Height Area

03-FEB-95

Elapse: 00:01:26.9 159
Start : 14:10:53 193

Inlet :
Masses: 140 > 350
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3426

SPEC: edtalc
Samp: EDTA 500 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 315.0
Norm: 315.0
Peak: 1000.00 mmu
Data: +/90>108 - /58>81,131>161

03-FEB-95

DERIVED SPECTRUM

9

Start : 14:10:53

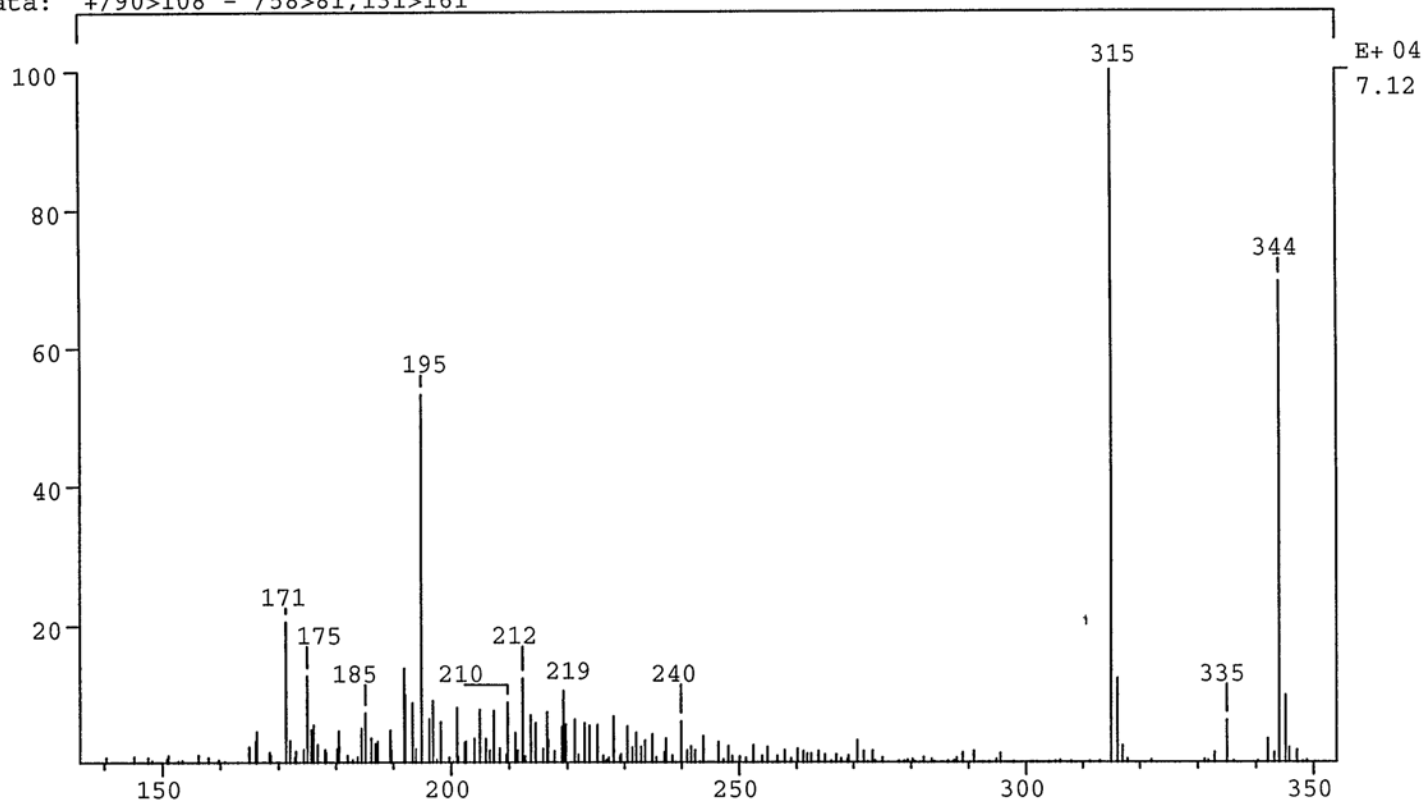
193

Inlet :

Masses: 140 > 350

#peaks: 210

b6 -1
b7C -1



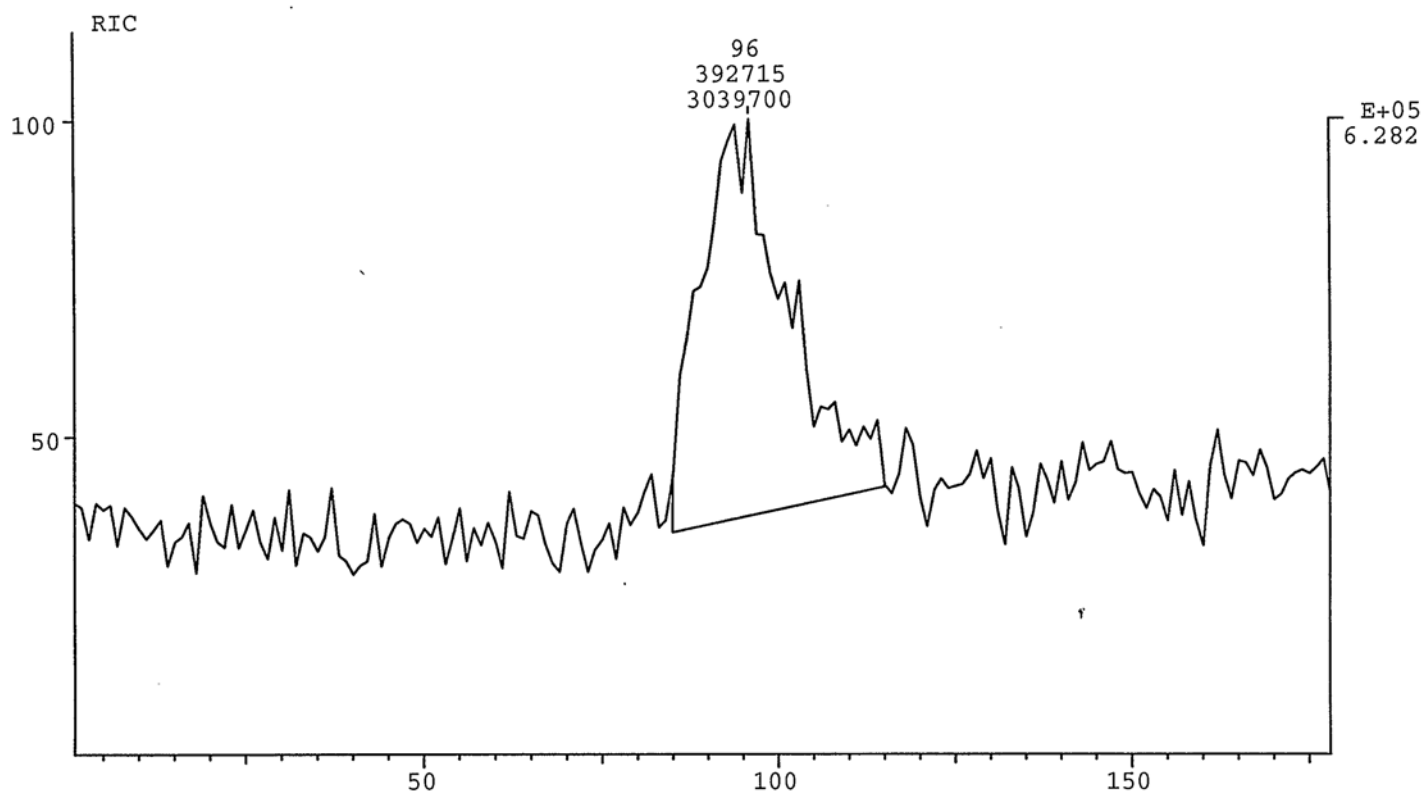
FBI(24-cv-1564)-3427

CHRO: edtalcl
Samp: EDTA 100 NG IN 1 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 178
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95 Elapse: 00:01:26.5 158
Start : 14:16:06 178

Inlet :
Masses: 140 > 350
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3428

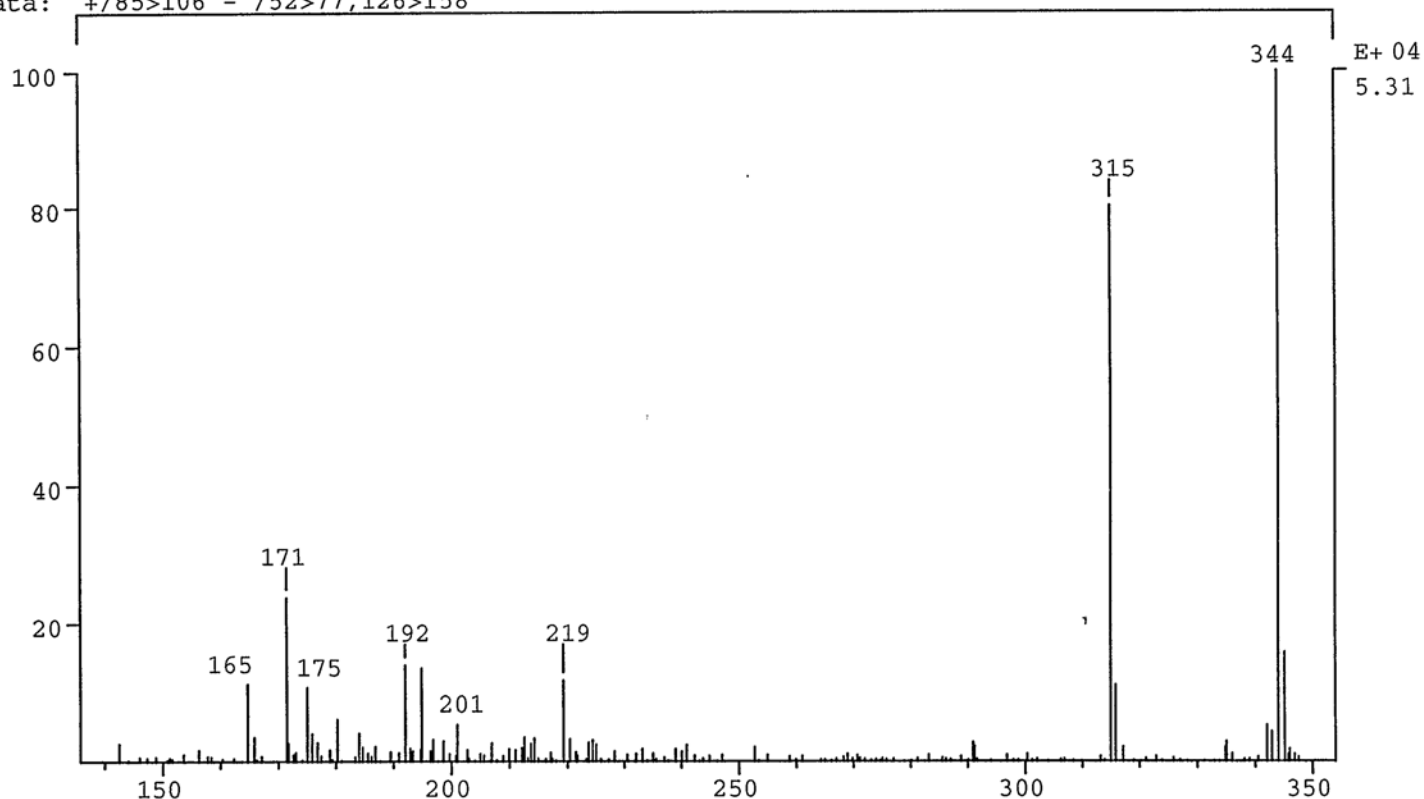
SPEC: edtalcl
Samp: EDTA 100 NG IN 1 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 344.0
Norm: 344.0
Peak: 1000.00 mmu
Data: +/85>106 - /52>77,126>158

03-FEB-95

DERIVED SPECTRUM 9
Start : 14:16:06 178

Inlet :
Masses: 140 > 350
#peaks: 208

b6 -1
b7C -1



FBI(24-cv-1564)-3429

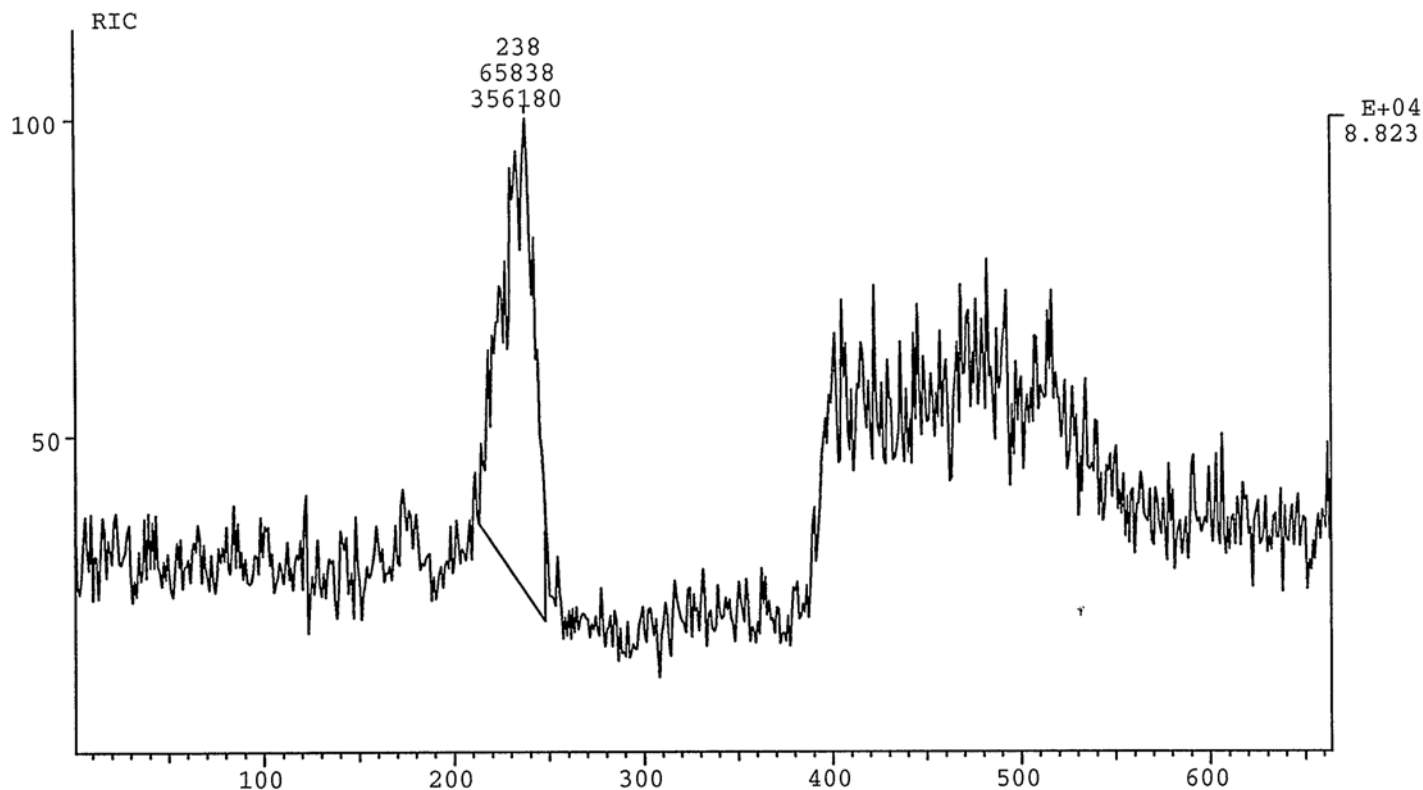
CHRO: edtalcl0
Samp: EDTA 50 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 664
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95

Elapse: 00:01:38.5 341
Start : 16:18:21 664

Inlet :
Masses: 285 > 350
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3430

SPEC: edtalcl0
Samp: EDTA 50 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 344.0 Inten : 18499
Norm: 344.0 RIC : 41186
Peak: 1000.00 mmu
Data: +/210>248 - /132>184,270>341

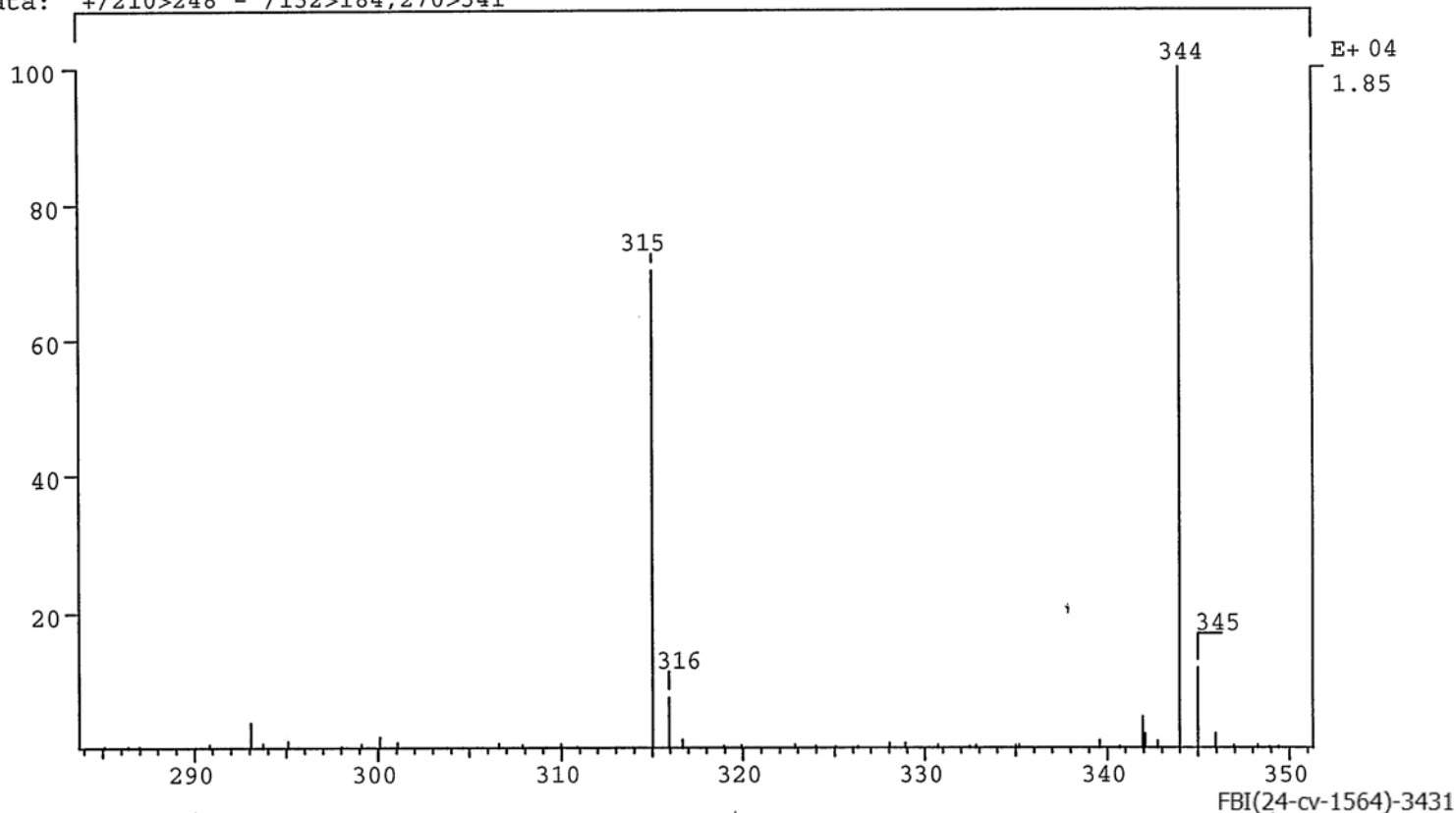
03-FEB-95

DERIVED SPECTRUM
Start : 16:18:21

9
664

Inlet :
Masses: 285 > 350
#peaks: 54

b6 -1
b7c -1

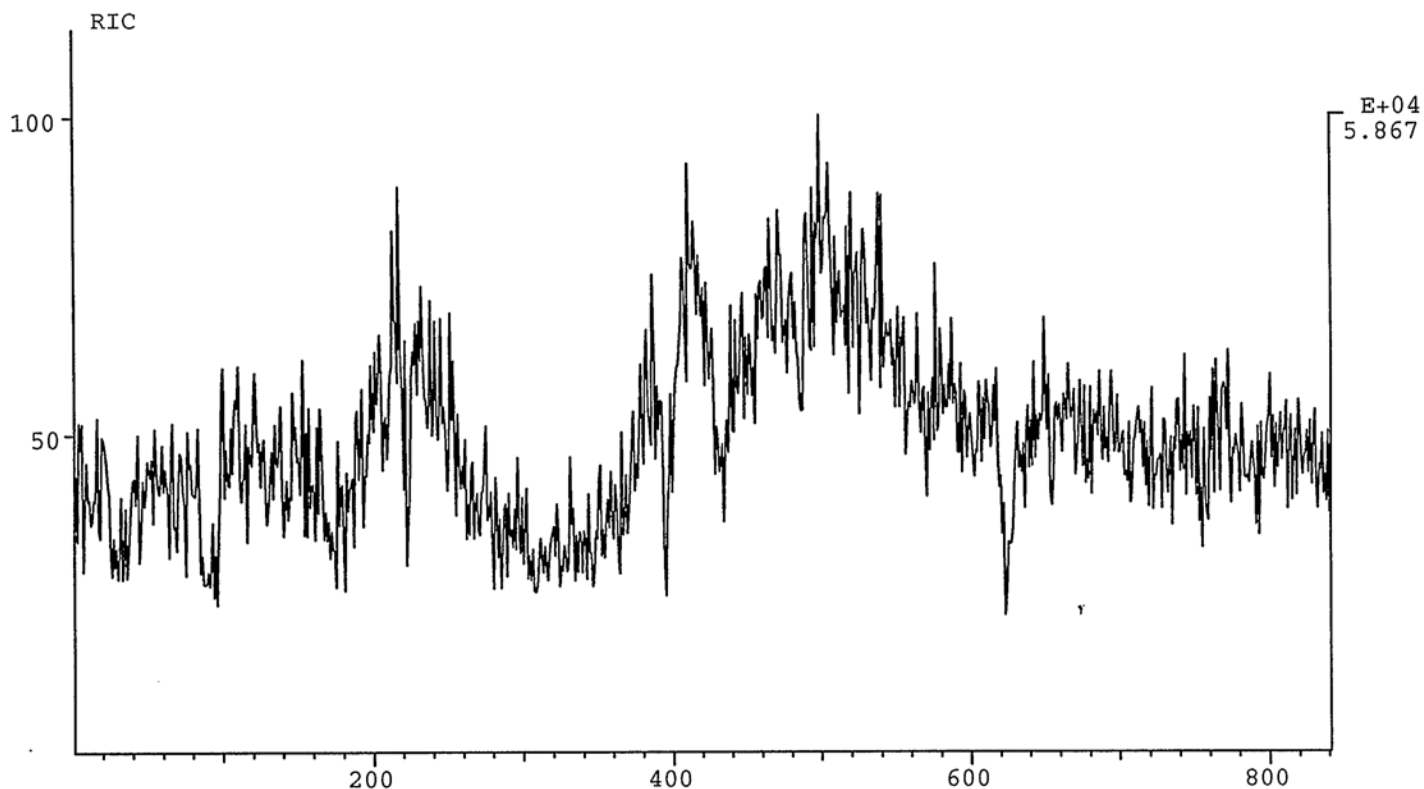


CHRO: edtalcl1
Samp: EDTA 50 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 841
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95 Elapse: 00:01:42.2 354
Start : 16:45:21 841

Inlet :
Masses: 285 > 350
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3432

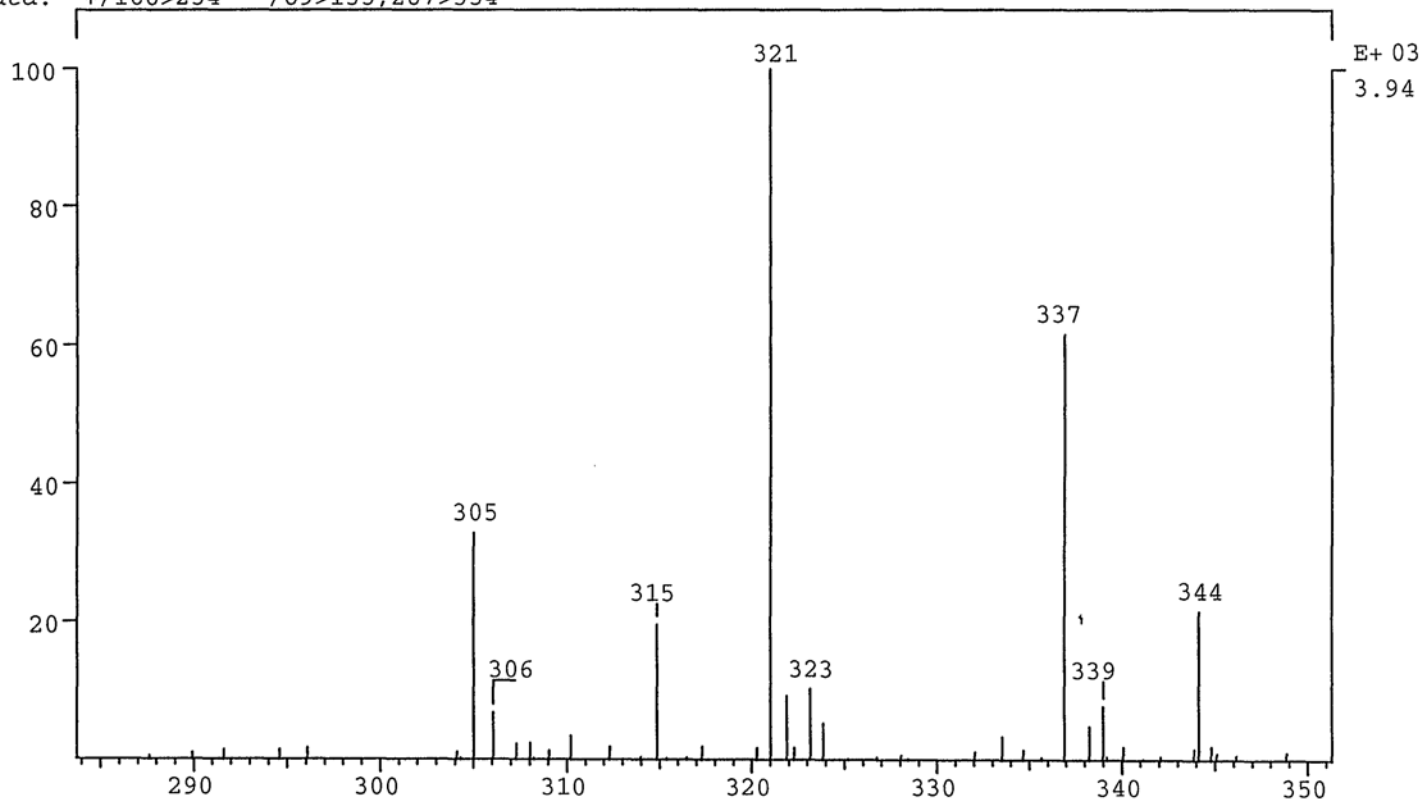
SPEC: edtalcl1
Samp: EDTA 50 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 321.0
Norm: 321.0
Peak: 1000.00 mmu
Data: +/188>254 - /89>155,287>354

03-FEB-95

DERIVED SPECTRUM 9
Start : 16:45:21 841

Inlet :
Masses: 285 > 350
#peaks: 49

b6 -1
b7C -1



FBI(24-cv-1564)-3433

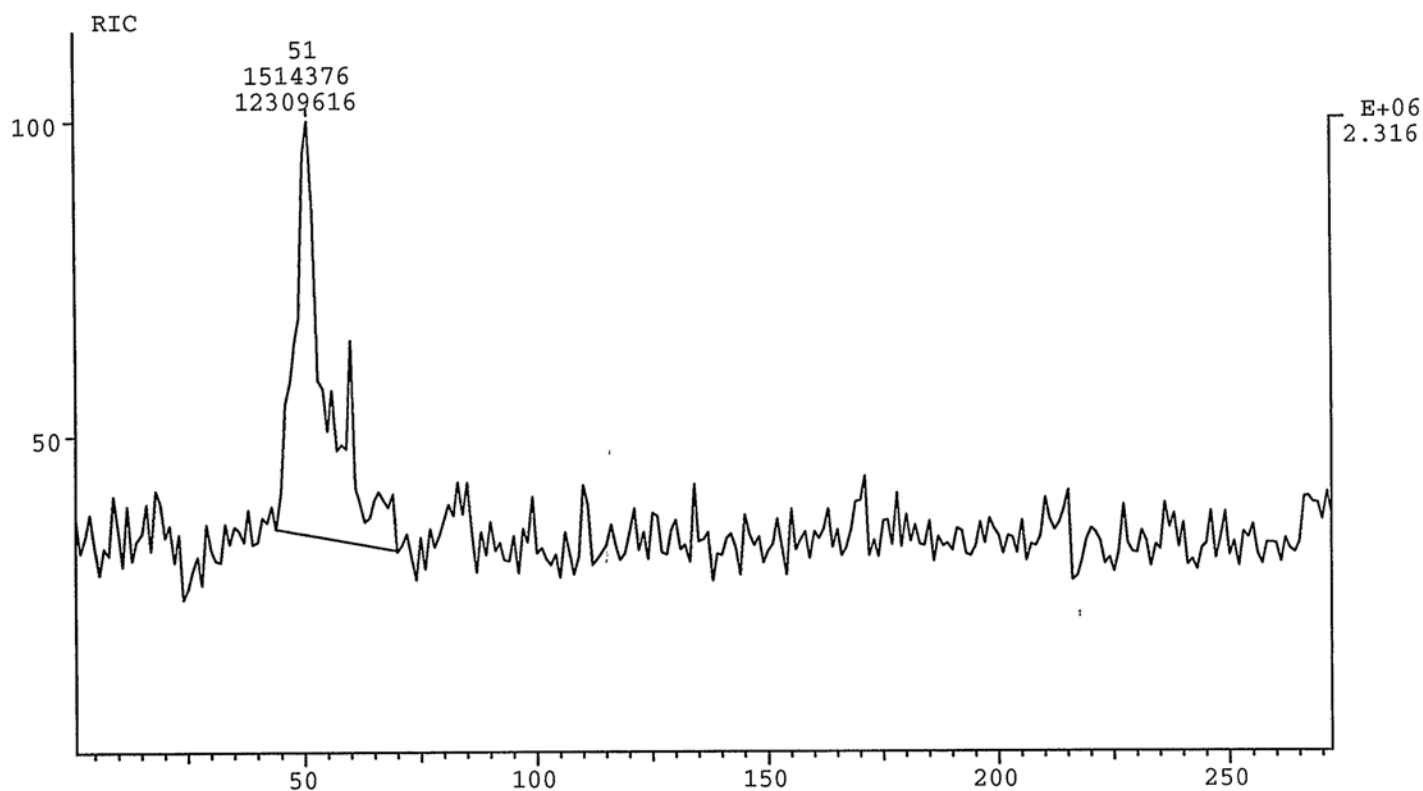
CHRO: edtalc2
Samp: EDTA 500 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 272
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95

Elapse: 00:01:48.7 103
Start : 14:20:34 272

Inlet :
Masses: 40 > 650
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3434

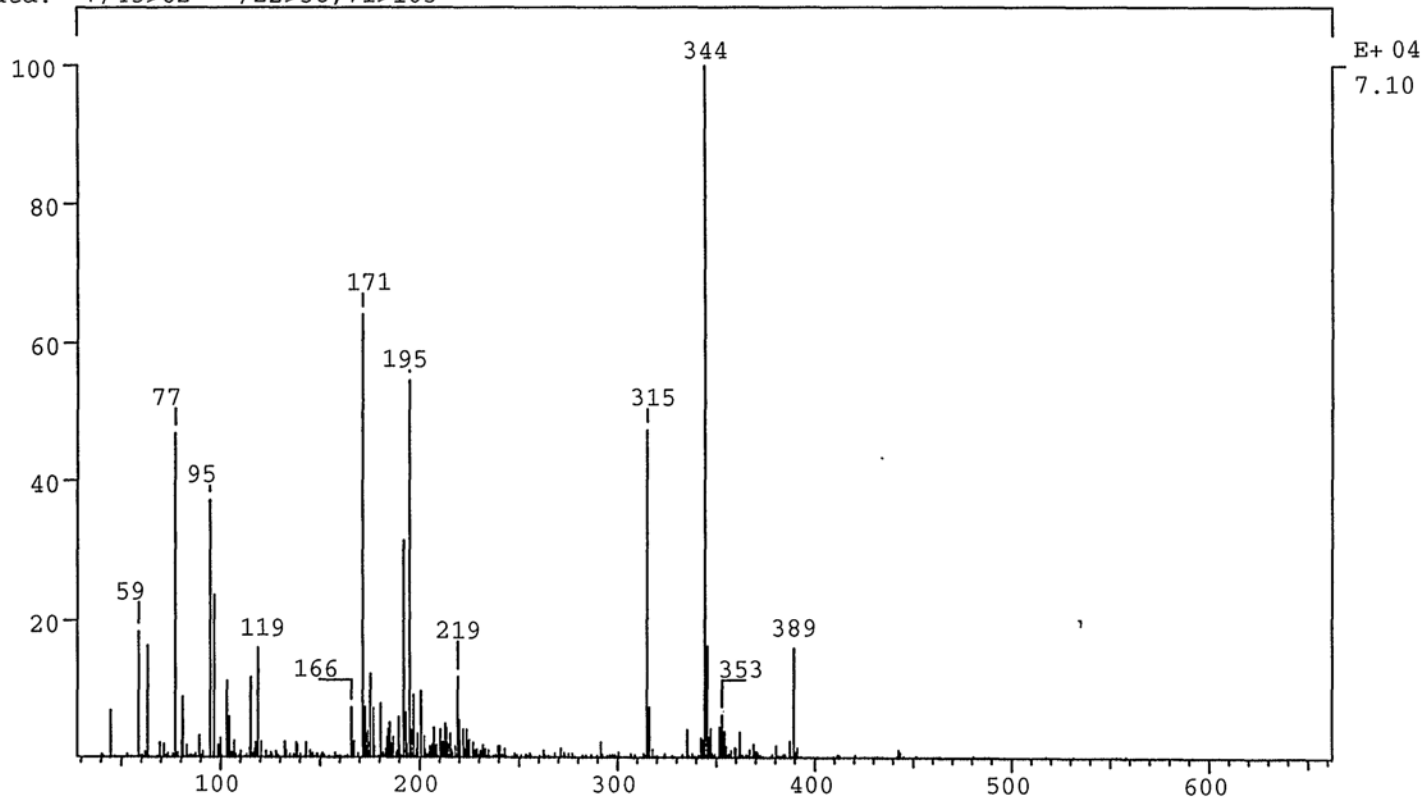
SPEC: edtalc2
Samp: EDTA 500 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 344.0
Norm: 344.0
Peak: 1000.00 mmu
Data: +/45>62 - /22>38,71>103

03-FEB-95

DERIVED SPECTRUM 9
Start : 14:20:34 272

Inlet :
Masses: 40 > 650
#peaks: 516

b6 -1
b7C -1



FBI(24-cv-1564)-3435

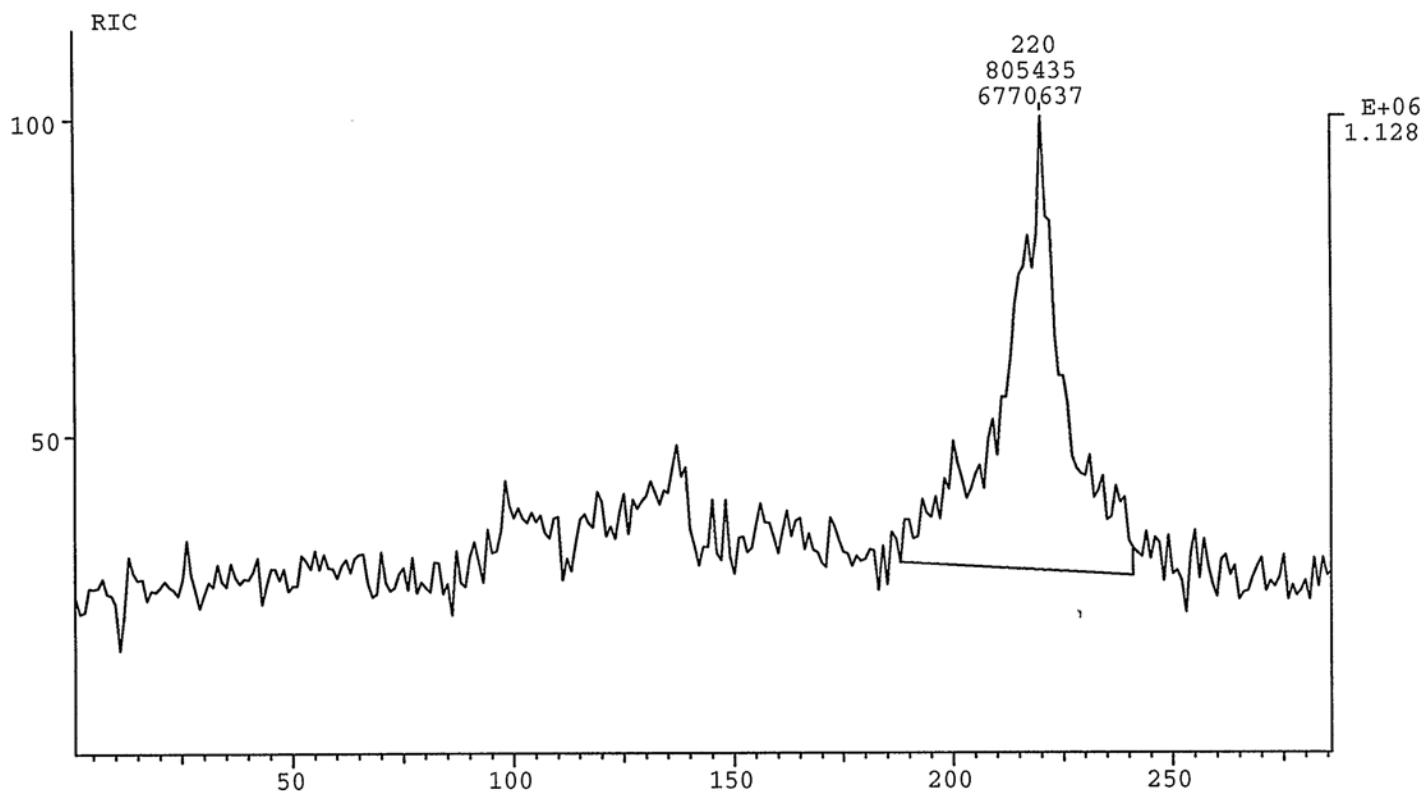
CHRO: edtal3
Samp: EDTA 50 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 286
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95

Elapse: 00:02:27.2 273
Start : 14:35:23 286

Inlet :
Masses: 140 > 400
Label : 15, 40.00

b6 -1
b7c -1



FBI(24-cv-1564)-3436

SPEC: edtal3
Samp: EDTA 50 NG IN 5 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 216.8
Norm: 216.8
Peak: 1000.00 mmu
Data: +/211>227 - /166>186,251>273

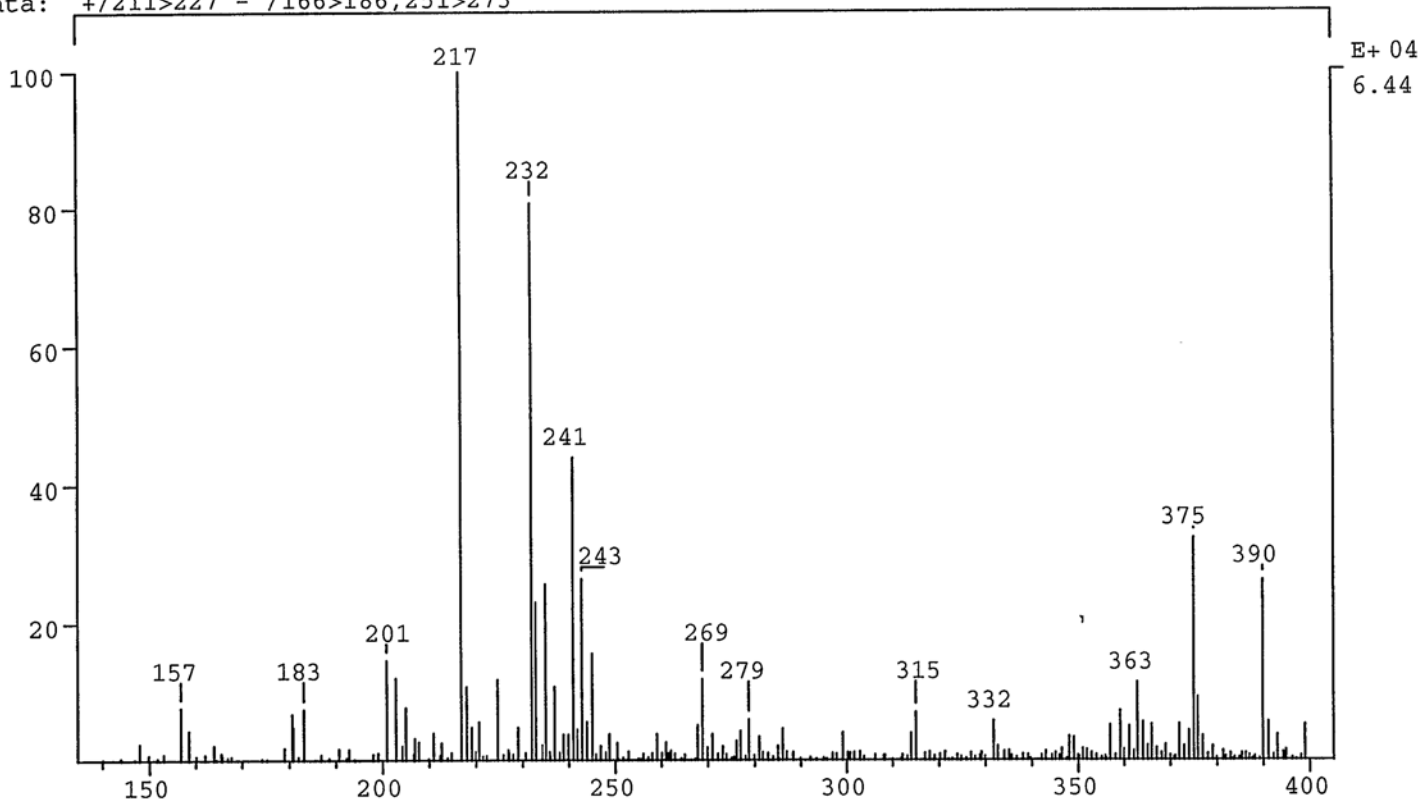
03-FEB-95

DERIVED SPECTRUM
Start : 14:35:23

9
286

Inlet :
Masses: 140 > 400
#peaks: 262

b6 -1
b7c -1



FBI(24-cv-1564)-3437

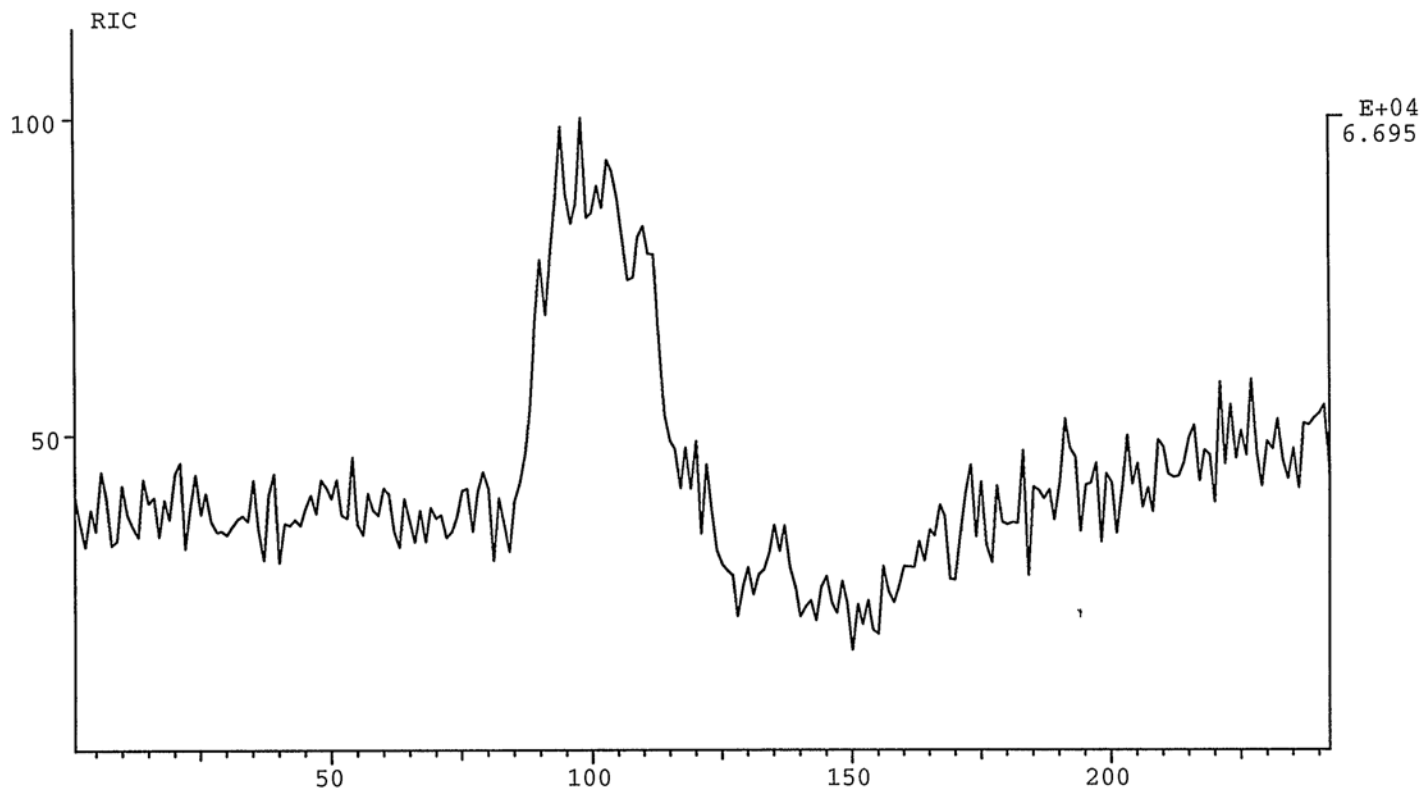
CHRO: edtalc4
Samp: EDTA 10 NG IN 1 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 242
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95

Elapse: 00:01:24.0 153
Start : 14:45:43 242

Inlet :
Masses: 285 > 350
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3438

SPEC: edtalc4
Samp: EDTA 10 NG IN 1 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Base: 315.0 Inten : 14453
Norm: 315.0 RIC : 32204
Peak: 1000.00 mmu
Data: +/85>116 - /42>73,127>153

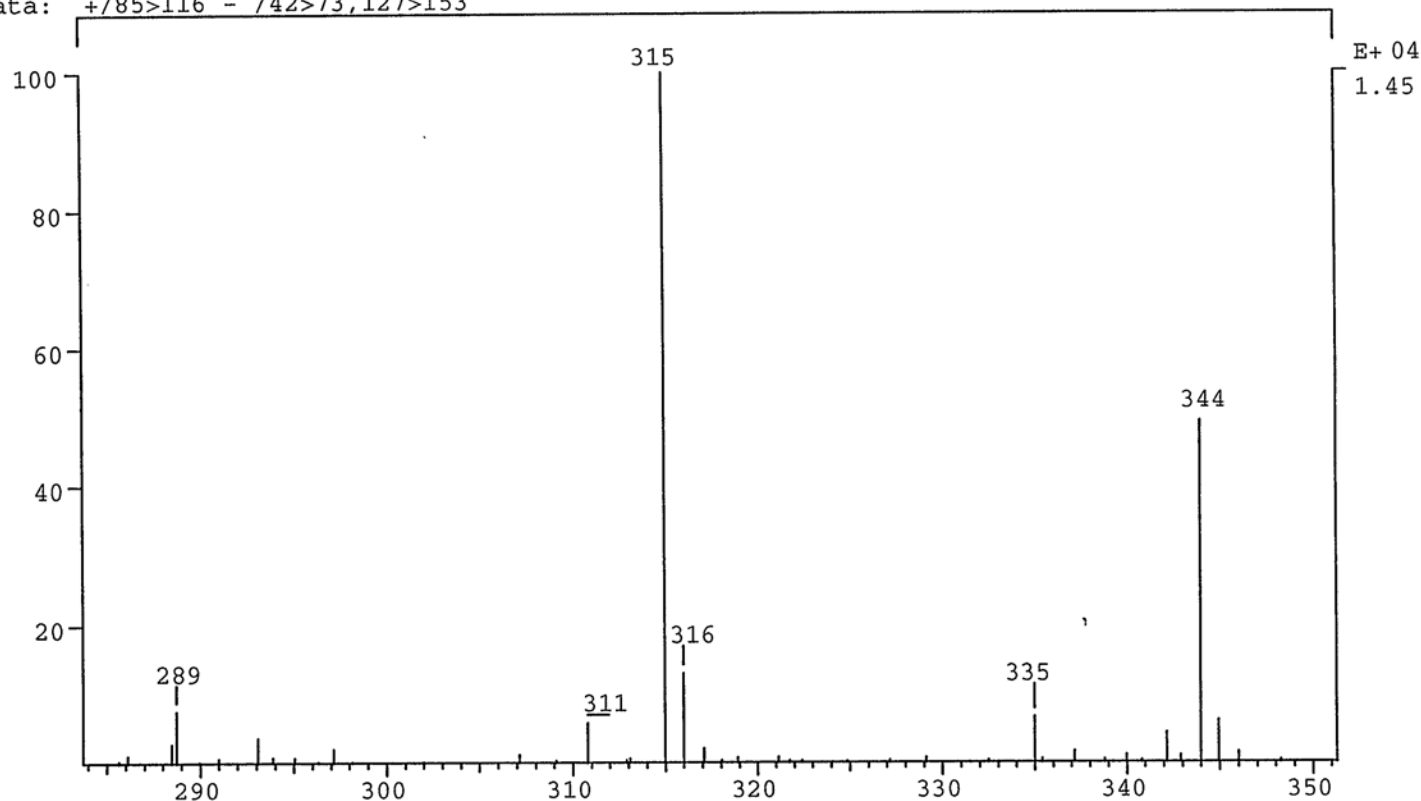
03-FEB-95

DERIVED SPECTRUM
Start : 14:45:43

9
242

Inlet :
Masses: 285 > 350
#peaks: 51

b6 -1
b7c -1



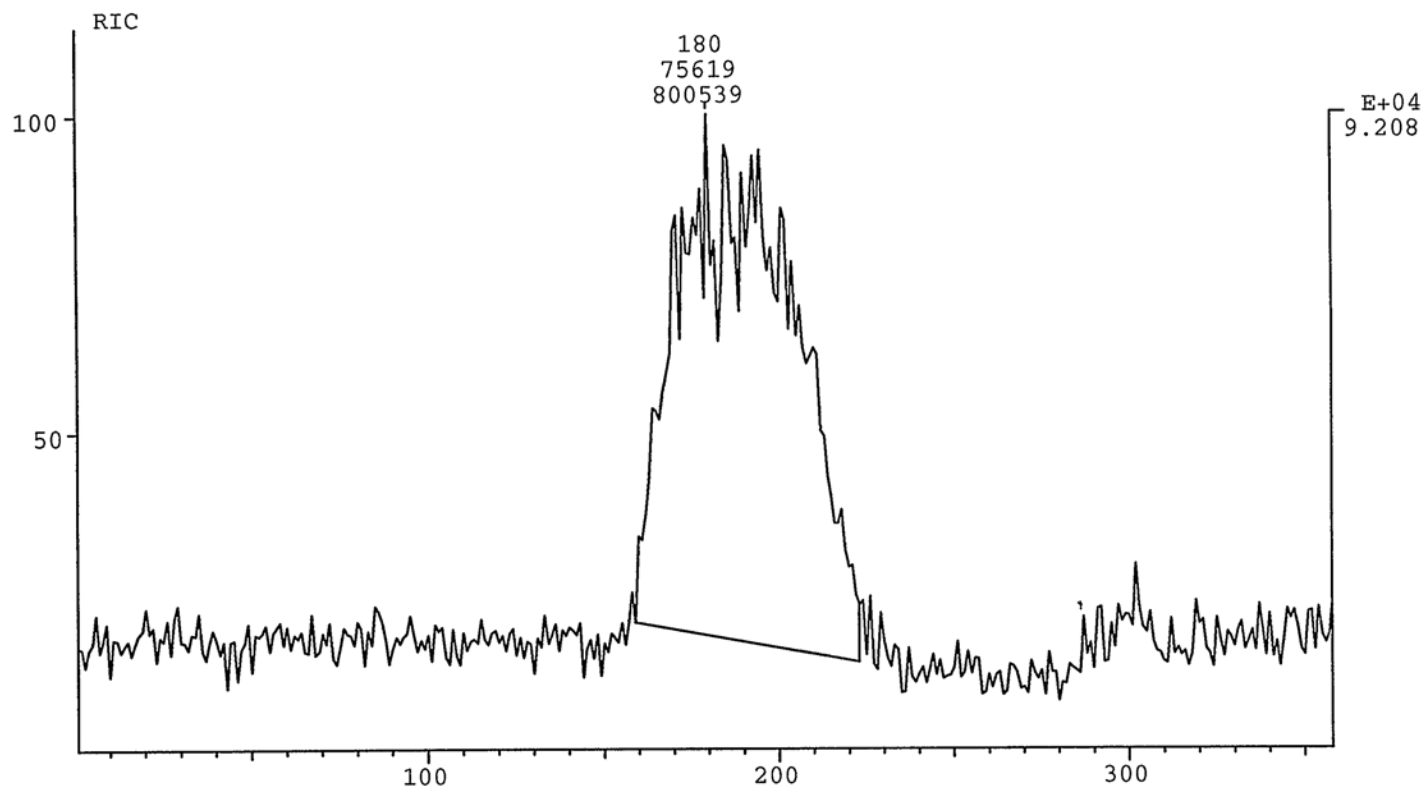
FBI(24-cv-1564)-3439

CHRO: edtalc5
Samp: EDTA 10 NG IN 1 UL, NA SALT
Comm: ACN/H2O/10mM NH3 5:90:5 PRP-1 2.1X150
Mode: ESI -Q1MS LMR UP LR
Oper:
Peak: 1000.00 mmu Label wndw: 1 > 358
Area: 80, 4.00 Baseline : 0, 401
Disp: Height Area

03-FEB-95 Elapse: 00:01:20.5 277
Start : 14:50:47 358

Inlet :
Masses: 310 > 350
Label : 15, 40.00

b6 -1
b7C -1



FBI(24-cv-1564)-3440



U.S. Department of Justice

Federal Bureau of Investigation

for 5/16

Washington, D. C. 20535

August 15, 1994

TO: PENN FOOTWEAR COMPANY
NANTICOKE, PA
FAX: 717-735-0251

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

FBI Laboratory

b6 -1
b7C -1

FAX**Date** 8/16/94**Number of pages including cover sheet****TO:**

C/O FBI LABORATORY

Phone 202-324-4450**Fax Phone** 202-324-1094**FROM:****PENN FOOTWEAR CO.**

LINE & GROVE STREETS

P.O. BOX 87

NANTICOKE, PA 18634

Phone 717-735-3200**Fax Phone** 717-735-0251

b6 -1,2

b7C -1,2

CC:**REMARKS:**☐ Urgent☐ For your review☐ Reply ASAP☐ Please Comment

IN RESPONSE TO THE FAX WE RECEIVED ON 8/15/94 REGARDING THE SHOE IMPRESSION, WE ARE UNABLE TO DETERMINE THE MAKE OR ORIGIN OF THE SHOES.

SINCERELY,

b6 -1,2

b7C -1,2

PRESIDENT, PENN FOOTWEAR COMPANY



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: SONIC SHOE CORPORATION
MIAMI, FLORIDA
FAX: 305-633-8058

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

FBI Laboratory

b6 -1
b7C -1

SONIC SHOE CORP/M A D R I G A L
1730 N.W. 23RD STREET.
MIAMI, FLA 33142
TEL=305-638-5110/1
FAX=305-633-8058

DATE: 8-17-94

TO: [REDACTED]

b6 -1,2
b7C -1,2

COMPANY: F.B.I.

FAX #: 202-324-1094

FROM: [REDACTED]

REF: Your Fax dated 8-15-94

NUMBER OF PAGES: 1

XX
Dear [REDACTED]:

We have received your fax today, by the pictures included and the size of the heel it looks like the sole of a work boot, a log bottom sole. I can not tell you much more since it is hard to see in detail. However, you should know that it is a rather unique design and that the molds used to make this soles are NOT very popular, making the manufacturer of the same possibly the only one in the world with it.

As a VERY LONG SHOT, I would recommend sending someone to the upcoming Las Vegas Shoe Show August 23/24/25/26 (Las Vegas Convention Center) where there will be over 2000 exhibitors of shoes, domestic and imported. Since you will be looking for a men's shoe there will only be about 150 stands to be inspected.

If I can be of any further help please do not hesitate to contact me.

I will be in Las Vegas if you need any help.

Regards, [REDACTED]

b6 -1,2
b7C -1,2



U.S. Department of Justice

Federal Bureau of Investigation

file 8/16

Washington, D. C. 20535

August 15, 1994

TO: STRACAM OF ITALY, INC.
E. RUTHERFORD, NEW JERSEY
FAX: 201-438-3215

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

[Redacted Signature]
[Redacted Name]
FBI Laboratory

b6 -1
b7C -1

*Does not recognize
will check with
their source in Italy
8/18*



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: FOOTWEAR INDUSTRIES OF AMERICA
WASHINGTON, D.C.
FAX: 202-789-4058

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

FBI Laboratory

b6 -1
b7C -1

DATE: 8/16/94

TO:

FBI Lab.

FROM:

Fawn Evenson

FIA

FOOTWEAR
Industries
of
America

b6 -1
b7C -11420 K STREET, NW SUITE 600
WASHINGTON, DC 200052PAGE(S) IN THIS TRANSMISSION
(including this cover sheet)

202 · 789 · 1420

FAX 202 · 789 · 4058

The material you sent does not look familiar to me. Three major outside companies are on the attached, and they may be of assistance.

Please remember, however, that 90% of all shoes sold in the US come from offshore, so your chances of finding a domestic supplier of these outsoles is pretty slim.

Good luck —

President

b6 -2
b7C -2

08/16/94
15:27:19

Footwear Industries of America**Quabaug Corp.**

ATTN: [REDACTED] VP Marketing and Sales

ADDR: 18 School Street

N. Brookfield, MA 01535-1920

PHONES: Work: (508)867-7731 Fax: (508)867-4600

b6 -9
b7C -9

The Biltrite Corp.

ATTN: [REDACTED] President, Footw

ADDR: 51 Sawyer Road

P.O. Box 9045

Waltham, MA 02254-9045

PHONES: Work: (617)647-1700 Fax: (617)647-0919

✓
mu

Meramec Group, Inc.

ATTN: [REDACTED] President

ADDR: 338 Ramsey Drive

P.O. Box 279

Sullivan, MO 63080-1456

PHONES: Work: (314)468-3101 Fax: (618)274-6914

✓
mc



U.S. Department of Justice

Federal Bureau of Investigation

Jan 8/16

Washington, D. C. 20535

August 15, 1994

TO:

[Redacted]

GLEN SHOE CO., INC.
NEW YORK, NEW YORK
FAX: 212-947-2266

b6 -9
b7C -9

Dear

[Redacted]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

[Redacted Signature]

FBI Laboratory

b6 -1
b7C -1

AUG-16-1994 14:41 FROM

TO

12023241094 P.01



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
GLEN SHOE CO., INC.
NEW YORK, NEW YORK
FAX: 212-947-2266

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to identify the shoe which made these impressions. If you can provide the name of the shoe or the manufacturer, please call the FBI Laboratory at (202) 324-4439 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

[REDACTED]
FBI Laboratory

b6 -1
b7C -1

August 16, 1994

TO:

[REDACTED]
FBI LABORATORY

b6 -1
b7C -1

FROM:

[REDACTED]
VICE PRESIDENT / GLEN SHOE CO., INC.

We are in receipt of the photograph and sketch referred to above.

We are very sorry that we cannot help you but we do not know what shoe this is.

b6 -2
b7C -2

Sincerely,

[REDACTED]

TOTAL P.01

FBI(24-cv-1564)-3506



U.S. Department of Justice

Federal Bureau of Investigation

sent 8/17

Washington, D. C. 20535

August 15, 1994

TO:

[Redacted]
DOLPHIN SHOE CO.
HIALEAH, FLORIDA
FAX: 305-691-7005

b6 -9
b7C -9

Dear [Redacted]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

[Redacted Signature]
FBI Laboratory

b6 -1
b7C -1

*Call 8/17
did not recognize*

[Redacted]



U.S. Department of Justice

Federal Bureau of Investigation

for 8/17

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
FOTI SHOE COMPANY
BENSENVILLE, IL
FAX: 708-350-2363

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely

[REDACTED]

FBI Laboratory

b6 -1
b7C -1

*per call 8/18
Not recognized*



U.S. Department of Justice

Federal Bureau of Investigation

file 8/16

Washington, D. C. 20535

August 15, 1994

TO:

[Redacted]

HARBOR FOOTWEAR GROUP LTD.
NEW YORK, NEW YORK
FAX: 516-621-4957

b6 -9
b7C -9

Dear

[Redacted]

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

[Redacted Signature]

FBI Laboratory

b6 -1
b7C -1

harbor

FOOTWEAR GROUP, LTD.

FAX# _____

DATE: _____

TO: _____

FROM: _____

TOTAL: _____ PAGES INCLUDING COVER SHEET.

IF THERE IS A PROBLEM WITH TRANSMISSION OR IF FAX IF NOT RECEIVED CLEARLY,
PLEASE CALL (516) 621-8400 OR FAX (516) 621-4957 TO INFORM SENDER.b6 -2,9
b7C -2,9

Re: your Fax to _____

Re: Sole imprint. THIS SOLE IS NOT

OURS, OUR PRODUCT DEVELOPERS ~~RECOGNIZE~~

RECOGNIZE IT AS A STYLE POPULAR ON

ITALIAN SHOES.

Showroom: 152 West 57th Street. 14th floor. New York. NY 10019. Tel: 212-586-5500

Executive Offices: 55 Harbor Park Drive. Port Washington. NY 11050. Tel: 516-621-8400. 800-645-8305. Fax: 516-621-4957

GORSO BERTINISTEEPLE
GATEcarlo
MiranelliZENSIARApierre card
FBI(24-cv-1564)-3510



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: THE BILTRITE CORPORATION
WALTHAM, MASSACHUSETTS
ATTN:
FAX: 617-647-0919

b6 -9
b7C -9

Dear Sir,

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are men's shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

FBI Laboratory

b6 -1
b7C -1

AUG 17 '94 8:25 FROM BILTRITE

TO

PAGE.001

F A X M E S S A G E

THE BILTRITE CORPORATION
TWO UNIVERSITY OFFICE PARK
51 SAWYER ROAD

WALTHAM, MASSACHUSETTS 02254-9045

TELEPHONE: (617) 647-0420

FAX: (617) 647-0919

FAXED: DATE: 08/17/94

TIME: _____

NUMBER OF PAGES: 1
(INCLUDING THIS PAGE)

PERSON (S):

[Redacted]

TIME: 9:17 AM DATE: 08/17/94 ^{b6 -1}_{b7C -1}

RIPLEY () ST. LOUIS () COMPANY: FBI LABORATORY

DO NOT RECOGNIZE THIS PATTERN.

MOST LIKELY A UNIT SOLE (1 PIECE SOLE AND HEEL MOLDED AS A SOLE AND CEMENTED ON

OR A DIRECT MOLDED DIRECTLY TO UPPER).

DOUBT IF IT IS DOMESTICALLY PRODUCED.

SORRY WE CANNOT HELP YOU.

VERY TRULY YOURS,

[Redacted]

^{b6 -2}
^{b7C -2}

AL PAGE.001 **



U.S. Department of Justice

Federal Bureau of Investigation

for 8/16

Washington, D. C. 20535

August 15, 1994

TO:



b7D -8

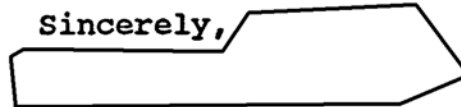
Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

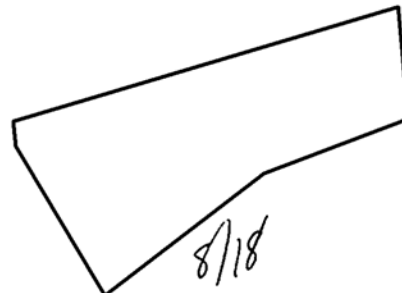
Your cooperation and assistance are greatly appreciated.

Sincerely,



FBI Laboratory

b6 -1
b7C -1



b7D -4



U.S. Department of Justice

Federal Bureau of Investigation

for 8/16

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
NIKE, INCORPORATED
BEAVERTON, OREGON
FAX: 503-671-6300

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

[REDACTED]
FBI Laboratory

b6 -1,2
b7C -1,2

Per phone call 8/18
Wm. G. L.
[REDACTED]
recovered

FBI(24-cv-1564)-3514



U.S. Department of Justice

Federal Bureau of Investigation

for 8/17

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
CUSTOM STITCHERS, INC.
LEWISTON, MAINE
FAX: 207-784-5143
777-3945

b6 -9
b7C -9

Dear [REDACTED]

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

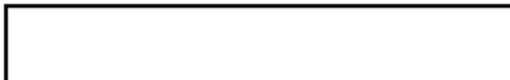
Your cooperation and assistance are greatly appreciated.

Sincerely,

[REDACTED]
FBI Laboratory

b6 -1
b7C -1

Facsimile Cover Sheet

TO:b6 -1
b7C -1**Company:**

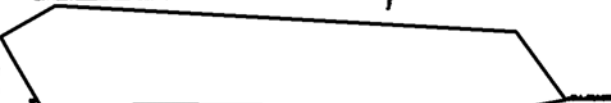
FBI Lab

Phone:

202-324-4450

Fax:

202-324-1094

b6 -2
b7C -2**FROM:****Company:**

CUSTOM STITCHERS, INC.

Phone:

(207)784-5143

Fax:

(207)777-3945

Date:

August 17, 1994

Pages including this**cover page: (1)****Comments:**

I have just received your fax and wanted to let you know that we are not aware of any of these sales. However I think you may be interested in knowing that we have a local unit sole manufacturer in the area. The company is L & A Heel & their fax # is 777-3813. They may be able to help more than I can.



U.S. Department of Justice

Federal Bureau of Investigation

for 8/17

Washington, D. C. 20535

August 15, 1994

TO:



EASTLAND SHOE MFG. CORP.
FREEPORT, MAINE
FAX: 207-865-6791

b6 -9
b7C -9

Dear

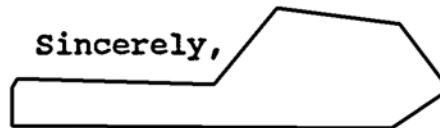


Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,



FBI Laboratory

b6 -1
b7C -1



Fax TO
202-324-1094

U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

EASTLAND SHOE MFG. CORP.
FREEPORT, MAINE
FAX: 207-865-6791

b6 -9
b7C -9

Dear

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

FBI Laboratory

8/17/94

Sorry, but I don't recognize this sale-

b6 -1,2
b7C -1,2



U.S. Department of Justice

Federal Bureau of Investigation

for 8/18/94

Washington, D. C. 20535

August 15, 1994

TO: GLOBE FOOTWEAR CORPORATION
ROSELLE PARK, NEW JERSEY
FAX: 908-241-1193

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

FBI Laboratory

b6 -1
b7C -1

GLOBE FOOTWEAR CORP.

IMPORT DIVISION

Distinguished Footwear For Men

FAX TRANSMISSION SHEET

190 WESTFIELD AVENUE, W.
ROSELLE PARK, N.J. 07204

DATE 8/18/94 TO: FBI

Telephone Area Code (908) 241-5600

REF YOUR FAX #

DATED:

PAGE: OF:

ATTN:

Fax (908) 241-1193

b6 -1
b7C -1

DEAR SIR:

AFTER EXAMINING YOUR DRAWING,
I CAN NOT IDENTIFY IT. I SUGGEST YOU FAX
GLOBE SHOE STORE IN PERAMUS N.J. THEY ARE
THE BIGGEST RETAIL SHOE STORE IN THIS
AREA. WE ARE A DISTRIBUTOR, AND DON'T
CARRY BRANDED FOOTWEAR EXCEPT OUR OWN.

GLOBE SHOE FAX 201 843 8551

I HOPE THIS HELPS YOU. GOOD LUCK.

KINDEST REGARDS

b6 -2
b7C -2

Called after the fax- suggested using a del.



U.S. Department of Justice

Federal Bureau of Investigation

file 8/16

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
ARMANI SHOE CORPORATION
699 N. MIAMI AVENUE
MIAMI, FLORIDA
FAX: 305-371-6831

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

[REDACTED]
FBI Laboratory

b6 -1
b7C -1

The Armani Shoes Corporation

699 North Miami Avenue
Miami, Florida 33136
U.S.A.

Telephone: (305) 358-2131
Fax: (305) 371-6831

August 17, 1994

[redacted]
FBI Laboratory
U.S. Department of Justice
Washington, D.C. 20535
Fax (202)324-1094

b6 -1
b7C -1

Dear [redacted],

In reference to your request for information about the footwear impressions sent to us on your fax dated August 15, the only thing I can tell you is that they seem to be impressions of shoes made in Taiwan or China.

I am sorry I cannot give you any more information about them. However, I would recommend you to go to the Shoe Show in Las Vegas where about 70% of all imported shoes will be shown. This show will be at the Sands Expo & Convention Center during August 23 to August 26.

Once again, I am sorry I cannot be of much help but if there is anything else you think I can do for you, do not hesitate to call me.

Sincerely,

b6 -2
b7C -2

[redacted]
President

ap



U.S. Department of Justice

Federal Bureau of Investigation

June 8/19/94

Washington, D. C. 20535

August 15, 1994

TO: TESTONI USA CORP
NEW YORK, NEW YORK
FAX: 212-644-0505
397-3311

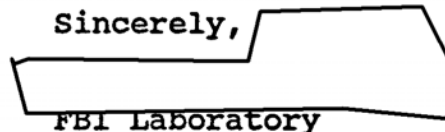
Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,



FBI Laboratory

b6 -1
b7C -1

Via
Telefax



a. testoni®

b6 -1
b7C -1

Date: 8/23/94 Page 1 of 1

To: U.S. Department of Justice Attn:

Reference: Sketch and picture of footprint FBI Laboratory

Please Reply to Our Fax # (212) 397 3311

Dear

We did examine the sketch and the picture you sent us and they do not correspond with the only rubber sole pattern we have.

Glad to be of service and please do contact us again if we can be of assistance.

b6 -1
b7C -1

Kindest regards,

Pres.
Tespacific Ltd.
D/B/A A. Testoni

b6 -2
b7C -2



U.S. Department of Justice

Federal Bureau of Investigation

June 8/16

Washington, D. C. 20535

August 15, 1994

TO: THE ROCKPORT COMPANY
MARLBORO, MA
FAX: 508-481-2431

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

FBI Laboratory

b6 -1
b7C -1

The
Rockport

COMPANY

220 DONALD J. LYNCH BLVD.
MARLBORO, MA 01752
TELEPHONE 508.485.2090

August 18, 1994

[REDACTED]
U.S. Department of Justice
Federal Bureau of Investigation
Washington, DC 20535

Dear [REDACTED]

We are in receipt of your letter dated August 15, 1994. We believe the following outsole manufacturers produce outsoles similar in design to the sketches and photographs attached to your letter:

✓ Meramec Group, Inc.
338 Ramsey Street
P.O. Box 279
Sullivan, MO 63080

Jones & Vining
166 Forbes Rd.
Braintree, MA 02184

Vulcan Corp.
6 East 4th Street - 7th Floor
Cincinnati, OH 45202

✓ Quabaug Corp.
18 School Street
North Brookfield, MA 01535

✓ Allen Trading Co., Inc.
275 Dean Road
Brookline, MA 02146

Very truly yours,

THE ROCKPORT COMPANY, INC.

b6 -1
b7C -1



U.S. Department of Justice

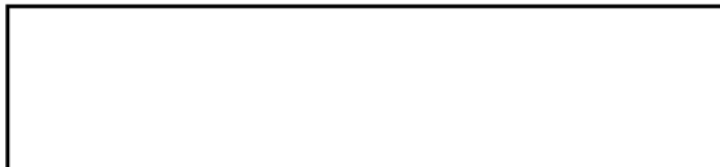
Federal Bureau of Investigation

first
8/16/94

Washington, D. C. 20535

August 15, 1994

TO:



b6 -10
b7C -10
b7D -8
b7E -13

Dear



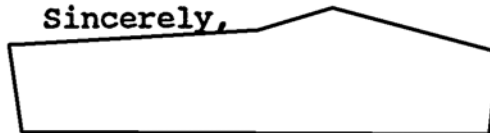
Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

It would be greatly appreciated if you could search your footwear design reference files in an attempt to locate shoes of this design.

If you determine the brand name or manufacturer of a shoe having this design or having a similar design, please advise me at your earliest convenience. I may be reached by phone at (202) 324-4450 or by facsimile at (202) 324-1094.

This investigation is of considerable importance and urgency. Your cooperation is greatly appreciated.

Sincerely,



FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

sent 8/16

Washington, D. C. 20535

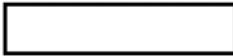
August 15, 1994

TO:



b6 -10
b7C -10
b7D -8
b7E -13

Dear



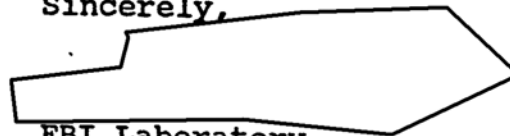
Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

It would be greatly appreciated if you could search your footwear design reference files in an attempt to locate shoes of this design.

If you determine the brand name or manufacturer of a shoe having this design or having a similar design, please advise me at your earliest convenience. I may be reached by phone at (202) 324-4450 or by facsimile at (202) 324-1094.

This investigation is of considerable importance and urgency. Your cooperation is greatly appreciated.

Sincerely,



FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

facd 8/16

Washington, D. C. 20535

August 15, 1994

TO:



b6 -10
b7C -10
b7D -8
b7E -13

Dear



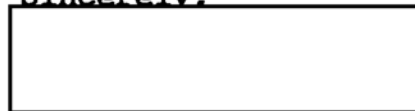
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It would be greatly appreciated if you could search your footwear design reference files in an attempt to locate shoes of this design.

If you determine the brand name or manufacturer of a shoe having this design or having a similar design, please advise me at your earliest convenience. I may be reached by phone at (202) 324-4450 or by facsimile at (202) 324-1094.

This investigation is of considerable importance and urgency. Your cooperation is greatly appreciated.

Sincerely,



FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

sent 8/16

Washington, D. C. 20535

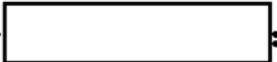
August 15, 1994

TO:



b6 -12
b7C -12
b7D -8

Dear



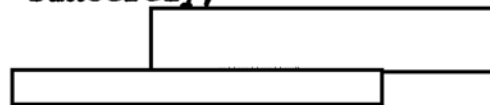
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This investigation is of considerable importance and urgency. Your cooperation is greatly appreciated.

Sincerely,



b6 -1
b7C -1

FBI Laboratory



U.S. Department of Justice

Federal Bureau of Investigation

For 8/16

Washington, D. C. 20535

August 15, 1994

TO:



b6 -10
b7C -10
b7D -8
b7E -13

Dear



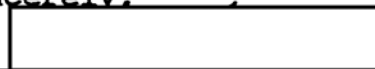
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This investigation is of considerable importance and urgency. Your cooperation is greatly appreciated.

Sincerely,



b6 -1
b7C -1



FBI Laboratory



8/16

U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:



b6 -10
b7C -10
b7D -8
b7E -13

Dear [redacted]

We are currently undergoing an important investigation and would ask you search your footwear reference materials in helping to locate a shoe design. If at all possible, please ask [redacted] if they are familiar with this design. If that is not possible, please inform us of the facsimile number for [redacted] and a person to contact directly.

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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This investigation is of considerable importance and urgency. Your cooperation is greatly appreciated.

Sincerely,

William J. Bodziak
FBI Laboratory



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

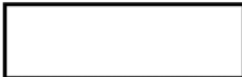
August 15, 1994

TO:



b6 -10
b7C -10
b7D -8
b7E -13

Dear



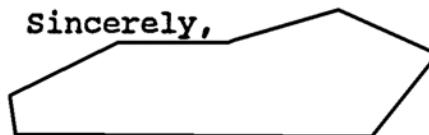
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This investigation is of considerable importance and urgency. Your cooperation is greatly appreciated.

Sincerely,



FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Handwritten signature/initials

Washington, D. C. 20535

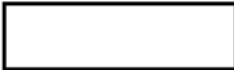
August 15, 1994

TO:



b6 -10
b7C -10
b7D -8
b7E -13

Dear



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This investigation is of considerable importance and urgency. Your cooperation is greatly appreciated.

Sincerely,

FBI Laboratory

b6 -1
b7C -1



b6 -2
b7C -2
b7D -4
b7E -13



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:



b6 -10
b7C -10
b7D -8
b7E -13

Dear



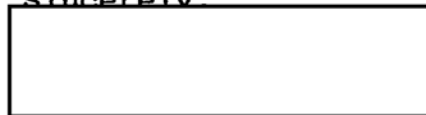
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This investigation is of considerable importance and urgency. Your cooperation is greatly appreciated.

Sincerely



FBI Laboratory

b6 -1
b7C -1



b6 -2
b7C -2
b7D -4
b7E -13



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
BALLY OF SWITZERLAND
1 BALLY PLACE
NEW ROCHELLE, NEW YORK
FAX: 914-632-8264

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely [REDACTED]

FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
BBC INTERNATIONAL INC.
19 W. 34TH STREET, 5TH FLOOR
NEW YORK, NEW YORK
FAX: 212-239-1923

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely, [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: MISSOURI INDUSTRIES, INC.
DEXTER, MO
FAX: 314-624-4790

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely

FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: MARTEGANI
NEW YORK, NEW YORK
FAX: 212-754-1901

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely, [redacted]

[redacted]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: MARGOLIN SHOE COMPANY
CHICAGO, ILLINOIS
FAX: 312-225-5223

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely, [redacted]

[redacted]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: LONDON UNDERGROUND
PORTLAND, OREGON
FAX: 503-243-3923

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely

[Redacted Signature]
[Redacted Name]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: LEGENDS FOOTWEAR
CITY OF INDUSTRY. CA
FAX: 818-336-3541 → 714-731-5907

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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Your cooperation and assistance are greatly appreciated.

Sincerely, [redacted]

[redacted]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: JOHNSTON & MURPHY SHOE COMPANY
NASHVILLE, TN
FAX: 615-367-7139

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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Your cooperation and assistance are greatly appreciated.

Sincerely

FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: ITALIAN SHOEMAKERS, INCORPORATED
MIAMI, FLORIDA
FAX: 305-477-9265

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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Your cooperation and assistance are greatly appreciated.

Sincerely

FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: INTERNATIONAL SEAWAY TRADING COMPANY
MAYFIELD VILLAGE, OHIO
FAX: 216-446-1018 → 407-737-4244

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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Your cooperation and assistance are greatly appreciated.

Sincerely,

FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

ENDICOTT JOHNSON SHOE CORP.
ENDICOTT, NEW YORK
FAX: 607-757-4701

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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Your cooperation and assistance are greatly appreciated.

Sincerely, [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
CHARLESPAK FOOTWEAR, INC.
MIAMI, FLORIDA
FAX: 305-381-9286

b6 -9
b7C -9

Dear [REDACTED]

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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Your cooperation and assistance are greatly appreciated.

Sincerely [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
COLUMBIA FOOTWEAR CORP.
HAZELTON, PA
FAX: 717-455-6115

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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Your cooperation and assistance are greatly appreciated.

Sincerely [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: L. J. SIMONE FOOTGEAR
LONG ISLAND CITY, NEW YORK
FAX: 718-706-8095

729-3914

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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Your cooperation and assistance are greatly appreciated.

Sincerely,

FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
AMTRADE INCORPORATED
303 FIFTH AVENUE., SUITE 709
NEW YORK, NEW YORK
FAX: 212-725-0718

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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Your cooperation and assistance are greatly appreciated.

Sincerely, [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
BARCLAY, SHOE CO., INC.
P.O. BOX 888, UNION STATON
UNION, NEW YORK
FAX: 607-757-4701

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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Your cooperation and assistance are greatly appreciated.

Sincerely, [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: [REDACTED]
ASIA SOURCES CENTER
400 S. ALAMEDA
LOS ANGELES, CA
FAX: 213-622-3446
622-8388

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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Your cooperation and assistance are greatly appreciated.

Sincerely, [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
ARGENTINE SHOE MFGRS. ASSN.
900 THIRD AVENUE
NEW YORK NEW YORK
FAX: 212-759-6477

b6 -9
b7C -9

Dear [REDACTED]:

753-3925

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

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Your cooperation and assistance are greatly appreciated.

Sincerely [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

HER-MAN IMPORTS INC.
W. NEW YORK, NEW JERSEY
FAX: ~~201-861-5905~~

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely, [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: ROBERT WAYNE ASSOC., INC.
ENGLEWOOD CLIFFS, NJ
FAX: 201-871-2342

Dear Sir:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely, [redacted]

[redacted]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 19, 1994

TO:

[redacted]
Craddock-Terry
Lynchburg, VA
Fax: 804-847-3505

b6 -9
b7C -9

Dear [redacted],

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a unit molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

[redacted]
[redacted]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

ma

Washington, D. C. 20535

August 26, 1994

Jones and Vining
166 Firbes Rd
Braintree, MA 02184

Dear Sir,

Enclosed is a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a unit molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

[Redacted Signature]

FBI Laboratory

b6 -1
b7C -1

retain for records



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 29, 1994

TO: SATRA FOOTWEAR TECHNOLOGY CENTER
SATRA HOUSE
NORTHHAMPTONSHIRE, ENGLAND NN16 9JH
FAX: 9-011-53-641-0626

Dear Sir,

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

I would not make this request of you except in this very important instance. Your cooperation and assistance are greatly appreciated.

Sincerely,


FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

June 8/17

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
E. S. ORIGINALS, INC.
New York, New York
FAX: 212-736-8366

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
BROWN SHOE COMPANY
ST. LOUIS, MO
FAX: 314-854-2093

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely, [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

file 8/17

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
BROWN SHOE CO. (NEW YORK SHOWROOM)
NEW YORK, NEW YORK
FAX: 212-546-8908

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely [REDACTED]

W [REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
DE LA TORRE IMPORTS/DELTA SHOE CO.
MIAMI, FLORIDA
FAX: 305-446-3953

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely, [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

Jan 8/18

August 15, 1994

TO:

[REDACTED]
DE LA RENTIS IMPORTS, INC.
MIAMI, FLORIDA
FAX: 305-822-9488

b6 -9
b7C -9

Dear [REDACTED]

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely, [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: [REDACTED]
CIPRIANO SHOES INC.
NEW YORK, NEW YORK
FAX: 212-674-5039

b6 -9
b7C -9

Dear [REDACTED]

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely, [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
DOMINO FOOTWEAR INC.
MIAMI, FLORIDA
FAX: 305-636-3032

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202) 324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely, [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
DONATO MARRONE SHOE CORP.
BALTIMORE, MD
FAX: 301-539-8784

b6 -9
b7C -9

Dear [REDACTED]

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: FRANCO FIERAMOSCA
FIERAMOSCA AND COMPANY
FAX: 207-775-1124

Dear Sir,

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,


FBI Laboratory

b6 -1
b7C -1

David Shumaker
8/17/94



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 19, 1994

TO:

[Redacted]
BASS & CO
Wilton, ME
Fax: 207-645-3255

b6 -9
b7C -9

Dear [Redacted],

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a unit molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

[Redacted]

FBI Laboratory

b6 -1
b7C -1



G.H. Bass & Co.
360 U.S. Route One · Falmouth, Maine 04105
Mailing Address: P.O. Box 9782 · Portland, Maine 04104-5082
(207) 781-3180

September 28, 1994

[redacted]
FBI Laboratory
Federal Bureau of Investigation
U.S. Department of Justice
Washington, DC 20535

b6 -1
b7C -1

Dear [redacted]:

I received your letter of August 19 regarding the footwear impressions you are trying to identify.

The outsole pictured is not used on any footwear produced by or for G.H. Bass & Co.

I'm sorry we cannot be of any assistance in this matter.

Sincerely,

[redacted]
President

b6 -2
b7C -2

[redacted]



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
FLORSHEIM SHOE CO.
CHICAGO, ILLINOIS
FAX: 312-559-7470

b6 -9
b7C -9

Dear [REDACTED]:

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely, [REDACTED]

[REDACTED]
FBI Laboratory

b6 -1
b7C -1



THE FLORSHEIM SHOE COMPANY

130 South Canal Street

CHICAGO, IL 60606-3999

EXECUTIVE OFFICES

August 31, 1994

FACSIMILE 202/324-1094

[Redacted]

FBI Laboratory
U.S. Department of Justice
Federal Bureau of Investigation
Washington, D. C. 20535

b6 -1
b7C -1

Dear [Redacted]:

This will acknowledge your recent facsimile, photograph and sketch of footwear which were recovered at the scene of a serious crime.

This was turned over to our Product Sourcing people, who are familiar with various molded outsoles and heels worldwide. They are unable identify the materials you sent to us.

We certainly regret not being able to assist you and trust that your endeavors will be resolved quickly.

b6 -2
b7C -2

Since

[Redacted Signature]

Vice President - Marketing

[Redacted]

FBI(24-cv-1564)-3585



U.S. Department of Justice

Federal Bureau of Investigation

for 8/15/94

Washington, D. C. 20535

August 15, 1994

TO:

[REDACTED]
GUESS FOOTWEAR
CULVER CITY, CA
FAX: 310-842-9286

b6 -9
b7C -9

Dear [REDACTED]

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely [REDACTED]
[REDACTED]

FBI Laboratory

b6 -2
b7C -2



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO: MERAMEC GROUP, INC.
SULLIVAN, MO
ATTN: MR. THOMAS H. DIECKHAUS
FAX: 618-274-6914

Dear Sir,

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

[Redacted Signature]

FBI Laboratory

b6 -1
b7C -1

FACSIMILE TRANSMISSION COVER SHEET

MERAMEC GROUP, INC.

P. O. Box 279 Sullivan, Missouri 63080

(314) 468-3101

(618) 274-6904 Production Orders/Clark Street TELEFAX

(618) 274-6914 Correspondence/Ramsey Street TELEFAX

This facsimile contains ~~CONFIDENTIAL~~ INFORMATION WHICH ALSO MAY BE LEGALLY PRIVILEGED which is intended only for the use of the Addressee(s) named above.

If you are not the intended recipient, you are hereby notified that any use, dissemination, distribution or copying of this facsimile is strictly prohibited. If you have received this facsimile in error, please immediately notify us by telephone and return the original facsimile to us at the above address via the U.S. Postal Service. Thank you.

TO: FEDERAL BUREAU OF INVESTIGATION

FROM: THOMAS H. DIECKHAUS

ATTN:

SUBJECT: YOUR FAX 8/15/94

b6 -1

NO. OF PAGES (including cover sheet) 1

DATE: 9/2/94

b7C -1

SPECIAL INSTRUCTIONS:

DEAR

MY STAFF AND I HAVE ALL GONE OVER THE SKETCH OF THE FOOTWEAR IMPRESSIONS YOU SENT BY FAX ON 8/15/94. UNFORTUNATELY, WE ARE UNABLE TO DETERMINE THE MANUFACTURER OF THIS BOTTOM.

WE ARE SORRY WE ARE UNABLE TO ASSIST YOU IN THIS MATTER.

SINCERELY,

PRESIDENT

b6 -2

b7C -2

charles david

August 30, 1994

[REDACTED]
FBI Laboratory
Facsimile: (202)324-1094

b6 -1,9
b7C -1,9

RE: YOUR FACSIMILE OF AUGUST 15, 1994
TO [REDACTED] / GUESS FOOTWEAR

Dear [REDACTED]:

After reviewing the information you sent us, we are not able to provide you with any information to assist you.

We are somewhat new to the Men's Footwear business, and with the thousands of overseas manufacturers we have not run into this pattern.

Sincerely,

b6 -2
b7C -2

[REDACTED]
[REDACTED]
Vice President, Operations

[REDACTED] fbi

b6 -1,2
b7C -1,2



U.S. Department of Justice

Federal Bureau of Investigation

Washington, D. C. 20535

August 15, 1994

TO:

ARCHE, INCORPORATED
128 W. 57TH STREET
NEW YORK NEW YORK
FAX: 212-581-8541

b6 -9
b7C -9

Dear

Represented in this facsimile are a photograph and a sketch of footwear impressions which were recovered at the scene of a serious crime. The FBI Laboratory is attempting to determine the brand name, manufacturer or source of the shoe of that design. The footwear in question are mens shoes having a molded outsole and heel of the same design. The heel is raised and the front edge of the heel is curved. The toe of the shoe is pointed.

If you are aware of the brand name, manufacturer or source of shoes having this design or having a very similar design, or if you are aware of a company, importer or person who might be in a position to recognize this design, please advise me at your earliest convenience. I may be reached by phone at (202)324-4450 or by facsimile at (202) 324-1094.

Your cooperation and assistance are greatly appreciated.

Sincerely,

FBI Laboratory

b6 -1
b7C -1

Per

and the dean

5/18/94

b6 -2
b7C -2