UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: JUL 13 1989

SUBJECT: Review of Region 5 data for National Steel Corp.

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SE-6196
Sample Numbers: 89FC20S66-89FC20S74, 89FC11R03 (11)
Parameter(s): VOA/water
Laboratory: CRL/Weston ESAT

Results Status:

(✓) DATA ACCEPTABLE FOR USE*
( ) DATA QUALIFIED AS TO USE
( ) DATA UNACCEPTABLE FOR USE

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

If there are any questions regarding the data, refer them to Steve Parker, the Quality Control Coordinator, at 353-3805.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

S. Griffin
JUL 13 1989

U.S. EPA CENTRAL
REGIONAL LAB

RECEIVED BY/DATE:

Comments:

DATA SET	SITE	DU/ACT.
JF-6196	National Steel Corp	TFA302

SAMPLES	PARAMETER(S)
89FC20566-89FC20574 89FC11R03	VOA/water

SAMPLED	RECEIVED	DUE	LAB
6/7/89	6/8/89	6/29/89	CRL/WestonFSAT

SHIPPED	DATA RECEIVED	CONTRACT

TEAM LEADER	SECTION CHIEF	QC COORD.	DATA COORD.
A. Alwan		R. JOHNSON	

Comments By Reviewer:

The data is acceptable for use.

A. Alwan
6/28/89

DATA MANAGEMENT COORDINATOR

RECEIVED TRANSMITTED

(X) REVIEWED ( ) UNREVIEWED

( ) REVIEWED ( ) UNREVIEWED

(X) REVIEWED ( ) UNREVIEWED

CLERICAL SUPPORT

RECEIVED COMPLETED

TEAM LEADER/DATE A. Alwan

SECTION CHIEF/DATE [illegible] 7/12/8

QC COORDINATOR/DATE Richard [illegible] 6/23/89

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED 7/13/89 TRANSMITTED 7/13/89 DATA MANAGEMENT COORDINATOR [illegible]

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0612BLK2

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0612BLK2

Sample wt/vol: 20 (g/mL) ML Lab File ID: 0612BLK2

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	70	
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

<BLK2 (CONT)

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0612BLK2

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0612BLK2

Sample wt/vol: >0 (g/mL) ML Lab File ID: 0612BLK2

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0613BLK2

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0613BLK2

Sample wt/vol: 20 (g/mL) ML Lab File ID: 0613BLK2

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/13/89

Column: (pack/cap) PACK Dilution Factor: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	11	J
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

06138K2 (CONT)

108-38-3--------M-Xylene	2	U
95-47-6---------0-&/or P-Xylene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0613BLK2

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0613BLK2

Sample wt/vol: 20 (g/mL) ML Lab File ID: 0613BLK2

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/13/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC11R03

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC11R03

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196R03

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC11R03 (CONT)

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

89FC11R03

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC11R03

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196R03

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.07	3	J
2.	UNKNOWN	7.37	2	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC20S68

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S68

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S68

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC20568 (CONT)

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

89FC20S68

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S68

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S68

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC20S69

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S69

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S69

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC20J69 (CONT)

108-38-3--------M-Xylene	2	U
95-47-6---------0-&/or P-Xylene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

89FC20S69

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S69

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S69

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC20S70

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S70

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S70

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC20570 (cont)

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

89FC20S70

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S70

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S70

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC20S71

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S71

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S71

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC20571 (CONT)

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

89FC20S71

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S71

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S71

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	19.14	43	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC20S72

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S72

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S72

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC20572 (CONT)

108-38-3--------M-Xylene	2	U
95-47-6---------0-&/or P-Xylene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

89FC20S72

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S72

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S72

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC20S73

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S73

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S73

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC20J73 (cont.

108-38-3--------M-Xylene	2	U
95-47-6---------0-&/or P-Xylene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

89FC20S73

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S73

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S73

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC20S66

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S66

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S66

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC20566 (CONT)

108-38-3--------M-Xylene	2	U
95-47-6---------0-&/or P-Xylene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

89FC20S66

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S66

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S66

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC20D66

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20D66

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196D66

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC20D66 (CONT)

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

89FC20D66

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20D66

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196D66

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC20S67

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S67

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S67

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	1	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC20567 (CONT)

108-38-3--------M-Xylene	2	U
95-47-6---------0-&/or P-Xylene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

89FC20S67

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S67

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S67

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC20S67MS

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S67MS

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S67M

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	6	
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	8	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	10	
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	9	
108-90-7	Chlorobenzene	9	
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC20567M5 (cont)

108-38-3--------M-Xylene	2	U
95-47-6---------O-&/or P-Xylene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC20S67MSD

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S67MSD

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6196S67D

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/12/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	6	
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	8	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	10	
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	9	
108-90-7	Chlorobenzene	9	
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC20567MSD (CONT)

108-38-3---------M-Xylene	2	U
95-47-6----------0-&/or P-Xylene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FC20S74

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S74

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6194S74A

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/13/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	75	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	2	U
107-13-1	Acrylonitrile	50	U
75-35-4	1,1-Dichloroethene	1	U
75-35-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	2	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	2	U
71-43-2	Benzene	5	
10061-02-6	Trans-1,3-Dichloropropene	5	U
110-75-8	2-Chloroethylvinylether	2	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	2	U

89FC20574 (CONT)

108-38-3--------M-Xylene	2	U
95-47-6---------0-&/or P-Xylene	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

89FC20S74

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FC20S74

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6194S74A

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/13/89

Column (pack/cap) PACK Dilution Factor: 1

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (C6H12)	15.17	220	J
2.	UNKNOWN	17.17	15	J
3.	UNKNOWN	19.14	320	J
4. 75-69-4	TRICHLOROFLUOROMETHANE	8.70	2	J

U.S. Environmental Protection Agency Region V

Superfund Document Management System (SDMS)

Lab Data Reference Sheet

Please contact the Superfund Records Manager for further information.

I. Unscannable item due to format

___ Graph

___ Mail receipts

✓ Sample tags

II. Image Quality

___ Resolution / Contrast
(Pages follow / No. of pages ____)

___ Some images within this document may be illegible due to bad source documents

USEPA REGION V CRL
DATA SET SF-6196; DTK

06/29/89 11:10:39
PAGE 01

Finished 7/11/89

WORKLIST : VODTK007
TEST : VOWSO

WL#	ID	REP	COMMENTS
1	LRB		
2	LF1		
3	LF2		
4	S9000178	01	-S66
5	S9000179	01	-D66
6	S9000180	01	-S67
7	S9000181	01	-S68
8	S9000182	01	-S69
9	S9000183	01	-S70
10	S9000184	01	-S71
11	S9000185	01	-S72
12	S9000186	01	-S73
13	S9000187	01	-S74
14	S9000188	01	-R03

(6196) data entry completed Jason 6 July 89

time: Jason 1.15
Carlton 20min
David 30min
total = 2.05

20 min OT

Date: 6/23/89

To: Alwan Alwan

From: David Kusel

Re: Dataset SF-6196
National Steel Corp.

Eleven (11) low level water samples from dataset SF-6196 were submitted for volatile organic analysis (VOA) by GC/MS utilizing EPA method 624NS.

All samples were analyzed within seven (7) days of receipt.

All tunings were acceptable with BFB meeting all QC requirements (Form 5A). The initial calibration was acceptable with all compounds having RSDs less than 35%. Both continuing calibrations were acceptable with all compounds having %Ds less than 35% except for carbon disulfide (%D=76% / RF=0.108 for CC0612 and %D=84% / RF=0.072 for IC30613), acrolein (%D=41 /RF=0.013 for CC0612 and %D=55 / RF=0.010 for IC30613), 2-butanone (%D=100 / RF=0.018 for CC0612) and acrylonitrile (%D=37 / RF=0.071 for IC30613). None of these compounds were detected in any of the samples.

All internal standard areas and retention times were within QC limits (Form 8A).

All surrogates were within QC limits for all samples (Form 2A).

Sample 89FC20S67 was used for the matrix spike and matrix spike duplicate analyses (Form 3A). All % recoveries and % RPDs in the matrix spike and matrix spike duplicate met their respective QC criteria.

There were two (2) method blanks associated with the samples. Method blank 0612BLK2 contained 2-butanone at 70 ppb. The presence of 2-butanone was attributed to contaminated purge water. This problem has since been rectified. There was no 2-butanone found in any of the samples. Method blank 0613BLK2 contained acetone at 11 ppb. No TICs were detected in either method blank.

There was one (1) Field Blank (89FC11R03) associated with the samples. The Field Blank contained toluene at the MDL level. The Field Blank contained two (2) TICs at 6:04 and 7:22.

Sample 89FC20S66 and its duplicate 89FC20D66 correlated very well. No TCL compounds or TICs were detected in either sample.

Sample 89FC20S71 contained one (1) TIC at 19:08. No TCL compounds were detected.

Sample 89FC20S72 contained benzene at the MDL level. No TICs were detected.

Sample 89FC20S74 contained benzene at 5 ppb and four (4) TICs at 8:42, 15:10, 17:10 and 19:08.

No other TCL compounds or TICs were detected in any other samples.

TFA 302

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH SUPERFUND FIT SAMPLE DATE 6-7-89 LAB ARRIVAL DATE 6-8-89 DUE DATE 6-29-89

DU NUMBER TFA DATA SET NUMBER 6196 STUDY Nat. Steel Corp Grt. Lake Div. PRIORITY — CONTRACTOR —

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17564	WATER ABN ORGANICS SCAN UG/L TOX 17574	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
89FC20S66	SW1 5-129351-353	✓ III			
S67	MSD/SW2 5-129354-356 5-129384-388	✓ IIIIII			
S68	SW3 5-129357-59	✓ III			
S69	SW4 5-129360-62	✓ III			
S70	SW5 5-129363-65	✓ III			
S71	SW6 5-129366-68	✓ III			
S72	SW7 5-129369-71	✓ III			
S73	SW8 5-129372-74	✓ III			
S74	SW9 5-129381-83	✓ III			
89FC11R03	Blk 5-129375-377	✓ II			
89FC20D66	Dup 5-129378-380	✓ III			

David [illegible]
~~6/14/89~~
6/13/89

(11)

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MDL0613

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: MDL0613

Sample wt/vol: 20 (g/mL) ML Lab File ID: MDL0613

Level: (low/med) LOW Date Received: 06/08/89

% Moisture: not dec. 100 Date Analyzed: 06/13/89

Column: (pack/cap) PACK Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	3	
74-83-9	Bromomethane	2	
75-01-4	Vinyl Chloride	2	
75-00-3	Chloroethane	2	
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	69	BJ
107-02-8	Acrolein	17	J
75-15-0	Carbon Disulfide	3	
107-13-1	Acrylonitrile	55	
75-35-4	1,1-Dichloroethene	0.8	J
75-35-3	1,1-Dichloroethane	1	
540-59-0	1,2-Dichloroethene (total)	0.8	J
67-66-3	Chloroform	1	
107-06-2	1,2-Dichloroethane	1	J
78-93-3	2-Butanone	19	J
71-55-6	1,1,1-Trichloroethane	0.8	J
56-23-5	Carbon Tetrachloride	0.5	J
108-05-4	Vinyl Acetate	0.7	J
75-27-4	Bromodichloromethane	0.8	J
78-87-5	1,2-Dichloropropane	1	
10061-01-5	cis-1,3-Dichloropropene	0.9	J
79-01-6	Trichloroethene	0.9	J
124-48-1	Dibromochloromethane	0.6	J
79-00-5	1,1,2-Trichloroethane	0.9	J
71-43-2	Benzene	1	
10061-02-6	Trans-1,3-Dichloropropene	0.6	J
110-75-8	2-Chloroethylvinylether	2	
75-25-2	Bromoform	0.5	J
108-10-1	4-Methyl-2-Pentanone	4	
591-78-6	2-Hexanone	4	
127-18-4	Tetrachloroethene	0.7	J
79-34-5	1,1,2,2-Tetrachloroethane	0.9	J
108-88-3	Toluene	0.9	J
108-90-7	Chlorobenzene	0.9	J
100-41-4	Ethylbenzene	0.7	J
100-42-5	Styrene	1	J

MDL0613 (CONT)

108-38-3--------M-Xylene	2	
95-47-6---------0-&/or P-Xylene	2	

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Lab File ID: 0605BFB1 BFB Injection Date: 06/05/89

Instrument ID: INCOS1 BFB Injection Time: 0734

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	47.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (0.9)1
174	Greater than 50.0% of mass 95	77.7
175	5.0 - 9.0% of mass 174	6.2 (8.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.6 (96.0)1
177	5.0 - 9.0% of mass 176	5.4 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	IC30605	IC30605	IC30605	06/05/89	1022
02	IC10605	IC10605	IC10605	06/05/89	1141
03	IC20605	IC20605	IC20605	06/05/89	1226
04	IC50605	IC50605	IC50605	06/05/89	1349
05	IC40605	IC40605	IC40605A	06/05/89	1528

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Lab File ID: 0612BFB2 BFB Injection Date: 06/12/89

Instrument ID: INCOS1 BFB Injection Time: 1112

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.5
75	30.0 - 60.0% of mass 95	50.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.2
173	Less than 2.0% of mass 174	0.1 (0.1)1
174	Greater than 50.0% of mass 95	55.4
175	5.0 - 9.0% of mass 174	3.3 (6.0)1
176	Greater than 95.0%, but less than 101.0% of mass 174	53.8 (97.2)1
177	5.0 - 9.0% of mass 176	3.6 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	0612BLK2	0612BLK2	0612BLK2	06/12/89	1142
02	CC0612	CC0612	CC0612	06/12/89	1227
03	89FC11R03	89FC11R03	6196R03	06/12/89	1349
04	89FC20S68	89FC20S68	6196S68	06/12/89	1433
05	89FC20S69	89FC20S69	6196S69	06/12/89	1517
06	89FC20S70	89FC20S70	6196S70	06/12/89	1601
07	89FC20S71	89FC20S71	6196S71	06/12/89	1645
08	89FC20S72	89FC20S72	6196S72	06/12/89	1729
09	89FC20S73	89FC20S73	6196S73	06/12/89	1814
10	89FC20S66	89FC20S66	6196S66	06/12/89	1943
11	89FC20D66	89FC20D66	6196D66	06/12/89	2027
12	89FC20S67	89FC20S67	6196S67	06/12/89	2111
13	89FC20S67MS	89FC20S67MS	6196S67M	06/12/89	2155
14	89FC20S67MSD	89FC20S67MSD	6196S67D	06/12/89	2239

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Lab File ID: 0613BFB1 BFB Injection Date: 06/13/89

Instrument ID: INCOS1 BFB Injection Time: 0754

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.7
75	30.0 - 60.0% of mass 95	49.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	67.0
175	5.0 - 9.0% of mass 174	4.4 (6.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	65.9 (98.3)1
177	5.0 - 9.0% of mass 176	4.7 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CC0613	CC0613	IC30613	06/13/89	1028
02	0613BLK2	0613BLK2	0613BLK2	06/13/89	1206
03	89FC20S74	89FC20S74	6194S74A	06/13/89	1337
04	MDL0613	MDL0613	MDL0613	06/13/89	2018

ASK DESC:VO NUMBER OF ENTRIES: 2 CURRENT INDEX: 2 12 JUN 89

1

ENTRY NO.: 1 FILE NAME: 0612BLK2 **
SAMPLE: CLP,6196,,0612BLK2,L,W,,V,BLANK,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA: ANALYST : DTK WEIGHT: 1.000
SUBMITTED BY: CRL ACCT. NO: TFA302 PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 1

ENTRY NO.: 2 FILE NAME: CC0612 **
SAMPLE: CLP,6196,,CC0612,L,W,,V,CAL,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA: ANALYST : DTK WEIGHT: 1.000
SUBMITTED BY: CRL ACCT. NO: TFA302 PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 2

```
ASK     DESC:VO   NUMBER OF ENTRIES: 13 CURRENT INDEX:  2                                    12 JUN 89
ENTRY NO.:  1                    FILE NAME:   6196R03
SAMPLE: CLP,6196,,89FC11R03,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA:                         ANALYST : DTK            WEIGHT:   1.000
SUBMITTED BY: CRL                ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  3
ENTRY NO.:  2                    FILE NAME:   6196S68
SAMPLE: CLP,6196,,89FC20S68,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA:                         ANALYST : DTK            WEIGHT:   1.000
SUBMITTED BY: CRL                ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  4
ENTRY NO.:  3                    FILE NAME:   6196S69
SAMPLE: CLP,6196,,89FC20S69,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA:                         ANALYST : DTK            WEIGHT:   1.000
SUBMITTED BY: CRL                ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  5
ENTRY NO.:  4                    FILE NAME:   6196S70
SAMPLE: CLP,6196,,89FC20S70,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA:                         ANALYST : DTK            WEIGHT:   1.000
SUBMITTED BY: CRL                ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  6
ENTRY NO.:  5                    FILE NAME:   6196S71
SAMPLE: CLP,6196,,89FC20S71,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA:                         ANALYST : DTK            WEIGHT:   1.000
SUBMITTED BY: CRL                ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  7
ENTRY NO.:  6                    FILE NAME:   6196S72
SAMPLE: CLP,6196,,89FC20S72,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA:                         ANALYST : DTK            WEIGHT:   1.000
SUBMITTED BY: CRL                ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  8


MORE TO COME, TYPE <CR> TO CONTINUE...
```

```
ASK     DESC:VO   NUMBER OF ENTRIES: 13 CURRENT INDEX:  2                                                    12 JUN 89
ENTRY NO.:  7                    FILE NAME:   6196S73
SAMPLE: CLP,6196,,89FC20S73,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA:                         ANALYST : DTK            WEIGHT:   1.000
SUBMITTED BY: CRL                ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  9
ENTRY NO.:  8                    FILE NAME:   6196S74
SAMPLE: CLP,6196,,89FC20S74,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA:                         ANALYST : DTK            WEIGHT:   1.000
SUBMITTED BY: CRL                ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO: 10
ENTRY NO.:  9                    FILE NAME:   6196S66
SAMPLE: CLP,6196,,89FC20S66,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA:                         ANALYST : DTK            WEIGHT:   1.000
SUBMITTED BY: CRL                ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  1
ENTRY NO.: 10                    FILE NAME:   6196D66
SAMPLE: CLP,6196,,89FC20D66,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA:                         ANALYST : DTK            WEIGHT:   1.000
SUBMITTED BY: CRL                ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  2
ENTRY NO.: 11                    FILE NAME:   6196S67
SAMPLE: CLP,6196,,89FC20S67,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA:                         ANALYST : DTK            WEIGHT:   1.000
SUBMITTED BY: CRL                ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  3
ENTRY NO.: 12                    FILE NAME:   6196S67M
SAMPLE: CLP,6196,,89FC20S67MS,L,W,,V,MS,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA:                         ANALYST : DTK            WEIGHT:   1.000
SUBMITTED BY: CRL                ACCT. NO: TFA302         PROC:DOTCA
AS-DESC: VO   GC-DESC: VO   SEQ-DESC: VO    VIAL NO:  4


MORE TO COME, TYPE <CR> TO CONTINUE...
```

ASK DESC:VO NUMBER OF ENTRIES: 13 CURRENT INDEX: 2 12 JUN 89

ENTRY NO.: 13 FILE NAME: 6196S67D

SAMPLE: CLP,6196,,89FC20S67MSD,L,W,,V,MSD,

CONDS.: 45'(3MIN) TO 220'@ 8'/MIN

FORMULA: ANALYST : DTK WEIGHT: 1.000

SUBMITTED BY: CRL ACCT. NO: TFA302 PROC:DOTCA

AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 5

ASK DESC:VO NUMBER OF ENTRIES: 3 CURRENT INDEX: 13 14 JUN 89

7

ENTRY NO.: 1 FILE NAME: 0613BLK2 **
SAMPLE: CLP,6195,,0613BLK2,L,W,,V,BLANK,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA: ANALYST : DTK WEIGHT: 1.000
SUBMITTED BY: CRL ACCT. NO: TFA302 PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 3

ENTRY NO.: 2 FILE NAME: 6192R04A **
SAMPLE: CLP,6192,,89FB11R04,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA: ANALYST : DTK WEIGHT: 1.000
SUBMITTED BY: CRL ACCT. NO: TFA302 PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 4

ENTRY NO.: 3 FILE NAME: 6194S74A **
SAMPLE: CLP,6196,,89FC20S74,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
FORMULA: ANALYST : DTK WEIGHT: 1.000
SUBMITTED BY: CRL ACCT. NO: TFA302 PROC:DOTCA
AS-DESC: VO GC-DESC: VO SEQ-DESC: VO VIAL NO: 5

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Lab File ID (Standard): CC0612 Date Analyzed: 06/12/89

Instrument ID: INCOS1 Time Analyzed: 1227

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2 ~~(DFB)~~ (BCP) AREA #	RT	IS3 ~~(CBZ)~~ (DCB) AREA #	RT
	12 HOUR STD	17300	9.90	80100	19.10	45900	23.10
	UPPER LIMIT	34600	10.40	160200	19.60	91800	23.60
	LOWER LIMIT	8650	9.40	40050	18.60	22950	22.60
	EPA SAMPLE NO.						
01	89FC11R03	18400	9.94	77800	19.10	41800	23.14
02	89FC20D66	18200	9.90	76700	19.10	42800	23.10
03	89FC20S66	15500	9.94	66500	19.10	38200	23.14
04	89FC20S67	15200	9.94	64800	19.10	35600	23.10
05	89FC20S68	17400	9.90	78100	19.10	42500	23.14
06	89FC20S69	19900	9.90	80500	19.10	46900	23.10
07	89FC20S70	15900	9.90	73400	19.14	42300	23.10
08	89FC20S71	21000	9.94	88100	19.10	53900	23.10
09	89FC20S72	15600	9.90	66400	19.10	37500	23.10
10	89FC20S73	20100	9.90	86800	19.10	56100	23.14
11	89FC20S67MS	15400	9.94	64200	19.10	37300	23.10
12	89FC20S67MSD	15800	9.90	68000	19.10	38700	23.14
13	0612BLK2	18400	9.90	84900	19.10	46900	23.10

IS1 (BCM) = Bromochloromethane
~~IS2 (DFB) = 1,4-Difluorobenzene~~
~~IS3 (CBZ) = Chlorobenzene~~
IS2 (BCP) = 2-Bromo-1-Chloropropane
IS3 (DCB) = 1,4-Dichlorobutane

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

(4 crossouts D Kovel 6/23/89)

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Lab File ID (Standard): IC30613 Date Analyzed: 06/13/89

Instrument ID: INCOS1 Time Analyzed: 1028

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

		IS1(BCM) AREA #	RT	IS2 (~~DFB~~) (BCP) AREA #	RT	IS3 (~~CBZ~~) (DCB) AREA #	RT
	12 HOUR STD	39600	9.90	144000	19.10	76400	23.10
	UPPER LIMIT	79200	10.40	288000	19.60	152800	23.60
	LOWER LIMIT	19800	9.40	72000	18.60	38200	23.60
	EPA SAMPLE NO.						
01	89FC20S74	40000	9.90	158000	19.10	78000	23.10
02	MDL0613	30500	9.90	115000	19.10	72200	23.10
03	0613BLK2	43100	9.90	150000	19.10	79800	23.10

IS1 (BCM) = Bromochloromethane
~~IS2 (DFB) = 1,4-Difluorobenzene~~
~~IS3 (CBZ) = Chlorobenzene~~
IS2 (BCP) = 2-Bromo-1-Chloropropane
IS3 (DCB) = 1,4-Dichlorobutane

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

(4 crossouts D Kurel 6/23/89)

FORM VIII VOA 1/87 Rev.

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

	EPA SAMPLE NO.	S1 (TOL) #	S2 ~~(BFB)~~ (BEN) #	S3 (DCE) #	OTHER	TOT OUT
01	89FC11R03	111	105	89		0
02	89FC20D66	103	108	96		0
03	89FC20S66	98	108	100		0
04	89FC20S67	101	103	94		0
05	89FC20S68	106	104	98		0
06	89FC20S69	100	104	93		0
07	89FC20S70	103	104	101		0
08	89FC20S71	88	101	95		0
09	89FC20S72	99	104	99		0
10	89FC20S73	81	93	97		0
11	89FC20S74	105	98	99		0
12	MDL0613	83	100	112		0
13	89FC20S67MS	98	106	96		0
14	89FC20S67MSD	93	100	97		0
15	0612BLK2	97	98	99		0
16	0613BLK2	106	107	96		0

	QC LIMITS
S1 (TOL) = Toluene-d8	(80-120)
~~S2 (BFB) = Bromofluorobenzene~~	(80-120)
S3 (DCE) = 1,2-Dichloroethane-d4	(80-120)
S2 (BEN) = Benzene-d_6	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

(2 crossouts D Kusel 6/23/89)

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Instrument ID: INCOS1 Calibration date: 06/12/89 Time: 1227

Lab File ID: CC0612 Init. Calib. Date(s): 06/05/89 06/05/89

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF15 ~~RRF50~~ 06/23/89	%D	
Chloromethane	#	3.004	3.484	-16.0	#
Bromomethane		2.676	3.258	-21.8	
Vinyl Chloride	*	3.063	3.577	-16.8	*
Chloroethane		2.006	2.363	-17.8	
Methylene Chloride		2.094	2.782	-32.9	
Acetone		0.104	0.082	21.2	
Acrolein		0.022	0.013	40.9	
Carbon Disulfide		0.459	0.108	76.5	
Acrylonitrile		0.112	0.085	24.1	
1,1-Dichloroethene	*	2.668	3.236	-21.3	*
1,1-Dichloroethane	#	5.842	7.309	-25.1	#
1,2-Dichloroethene (total)		2.611	3.197	-22.4	
Chloroform	*	5.447	6.760	-24.1	*
1,2-Dichloroethane		2.012	2.560	-27.2	
2-Butanone		0.009	0.018	-99.9	
1,1,1-Trichloroethane		1.209	1.381	-14.2	
Carbon Tetrachloride		1.095	1.205	-10.1	
Vinyl Acetate		0.435	0.314	27.8	
Bromodichloromethane		0.798	0.825	-3.4	
1,2-Dichloropropane	*	0.734	0.781	-6.4	*
cis-1,3-Dichloropropene		0.725	0.737	-1.7	
Trichloroethene		0.961	1.052	-9.5	
Dibromochloromethane		0.415	0.393	5.3	
1,1,2-Trichloroethane		0.295	0.283	4.1	
Benzene		1.976	2.233	-13.0	
Trans-1,3-Dichloropropene		0.415	0.440	-6.0	
2-Chloroethylvinylether		0.136	0.137	-0.7	
Bromoform	#	0.149	0.123	17.5	#
4-Methyl-2-Pentanone		0.202	0.173	14.4	
2-Hexanone		0.276	0.246	10.9	
Tetrachloroethene		1.562	1.564	-0.1	
1,1,2,2-Tetrachloroethane	#	0.443	0.404	8.8	#
Toluene	*	2.482	2.666	-7.4	*
Chlorobenzene	#	2.849	2.871	-0.8	#
Ethylbenzene	*	1.529	1.607	-5.1	*
Styrene		2.568	2.463	4.1	
M-Xylene		1.979	1.817	8.2	
O-&/or P-Xylene		1.873	1.790	4.4	
Toluene-d8		2.316	2.470	-6.6	

Benzene-d6	2.217	2.382	-7.4
1,2-Dichloroethane-d4	2.001	2.365	-18.2

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Instrument ID: INCOS1 Calibration date: 06/13/89 Time: 1028

Lab File ID: IC30613 Init. Calib. Date(s): 06/05/89 06/05/89

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF15 ~~RRF50~~ DKuhl 6/23/87	%D	
Chloromethane	#	3.004	2.594	13.7	#
Bromomethane		2.676	2.740	-2.4	
Vinyl Chloride	*	3.063	2.700	11.9	*
Chloroethane		2.006	1.872	6.7	
Methylene Chloride		2.094	2.150	-2.7	
Acetone		0.104	0.079	24.0	
Acrolein		0.022	0.010	54.6	
Carbon Disulfide		0.459	0.072	84.3	
Acrylonitrile		0.112	0.071	36.6	
1,1-Dichloroethene	*	2.668	2.390	10.4	*
1,1-Dichloroethane	#	5.842	4.760	18.5	#
1,2-Dichloroethene (total)		2.611	2.290	12.3	
Chloroform	*	5.447	4.805	11.8	*
1,2-Dichloroethane		2.012	1.726	14.2	
2-Butanone		0.009	0.009	0.0	
1,1,1-Trichloroethane		1.209	1.202	0.6	
Carbon Tetrachloride		1.095	1.159	-5.8	
Vinyl Acetate		0.435	0.334	23.2	
Bromodichloromethane		0.798	0.773	3.1	
1,2-Dichloropropane	*	0.734	0.675	8.0	*
cis-1,3-Dichloropropene		0.725	0.687	5.2	
Trichloroethene		0.961	1.051	-9.4	
Dibromochloromethane		0.415	0.446	-7.5	
1,1,2-Trichloroethane		0.295	0.309	-4.7	
Benzene		1.976	1.919	2.9	
Trans-1,3-Dichloropropene		0.415	0.407	1.9	
2-Chloroethylvinylether		0.136	0.123	9.6	
Bromoform	#	0.149	0.174	-16.8	#
4-Methyl-2-Pentanone		0.202	0.202	0.0	
2-Hexanone		0.276	0.282	-2.2	
Tetrachloroethene		1.562	1.909	-22.2	
1,1,2,2-Tetrachloroethane	#	0.443	0.422	4.7	#
Toluene	*	2.482	2.613	-5.3	*
Chlorobenzene	#	2.849	3.159	-10.9	#
Ethylbenzene	*	1.529	1.697	-11.0	*
Styrene		2.568	3.063	-19.3	
M-Xylene		1.979	2.126	-7.4	
O-&/or P-Xylene		1.873	2.081	-11.1	
Toluene-d8		2.316	2.513	-8.5	

Benzene-d6	2.217	2.175	1.9
1,2-Dichloroethane-d4	2.001	1.719	14.1

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Instrument ID: INCOS1 Calibration Date(s): 06/05/89 06/05/89

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) PACK

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%
(10 crossouts DKurel 6/23/89)

LAB FILE ID: ~~RRF20~~ = IC10605= RRF05 ~~RRF50~~ = IC20605 = RRF10
~~RRF100~~= IC30605 = RRF15 ~~RRF150~~= IC40605A = RRF20 ~~RRF200~~= IC50605 = RRF25

COMPOUND		RRF05 ~~RRF20~~	RRF10 ~~RRF50~~	RRF15 ~~RRF100~~	RRF20 ~~RRF150~~	RRF25 ~~RRF200~~	$\overline{RRF}$	% RSD
Chloromethane	#	3.197	2.739	2.725	3.021	3.337	3.004	9.1#
Bromomethane		2.671	2.252	2.349	2.989	3.119	2.676	14.2
Vinyl Chloride	*	3.221	2.716	2.741	3.155	3.480	3.063	10.7*
Chloroethane		2.052	1.816	1.893	2.060	2.211	2.006	7.7
Methylene Chloride		0.992	2.160	2.315	2.547	2.458	2.094	30.3
Acetone		0.096	0.098	0.113	0.111	0.104	0.104	7.3
Acrolein		0.022	0.019	0.023	0.023	0.022	0.022	7.5
Carbon Disulfide		0.452	0.393	0.466	0.498	0.484	0.459	8.8
Acrylonitrile		0.108	0.102	0.118	0.119	0.111	0.112	6.3
1,1-Dichloroethene	*	1.989	2.261	2.813	3.100	3.176	2.668	19.6*
1,1-Dichloroethane	#	4.826	5.414	6.185	6.386	6.397	5.842	11.9#
1,2-Dichloroethene (total)		2.066	2.321	2.695	2.998	2.977	2.611	15.7
Chloroform	*	4.490	4.717	5.702	6.357	5.969	5.447	14.8*
1,2-Dichloroethane		1.656	1.869	2.119	2.301	2.115	2.012	12.5
2-Butanone		0.009	0.008	0.010	0.010	0.009	0.009	9.3
1,1,1-Trichloroethane		1.019	1.061	1.256	1.308	1.403	1.209	13.6
Carbon Tetrachloride		0.812	0.927	1.162	1.242	1.332	1.095	19.9
Vinyl Acetate		0.489	0.369	0.490	0.478	0.349	0.435	16.1
Bromodichloromethane		0.627	0.704	0.856	0.898	0.905	0.798	15.7
1,2-Dichloropropane	*	0.636	0.675	0.794	0.770	0.797	0.734	10.1*
cis-1,3-Dichloropropene		0.589	0.642	0.770	0.818	0.808	0.725	14.3
Trichloroethene		0.780	0.861	1.009	1.061	1.094	0.961	14.0
Dibromochloromethane		0.283	0.346	0.445	0.510	0.490	0.415	23.4
1,1,2-Trichloroethane		0.251	0.264	0.306	0.329	0.326	0.295	12.2
Benzene		1.697	1.774	2.077	2.127	2.205	1.976	11.4
Trans-1,3-Dichloropropene		0.319	0.345	0.461	0.476	0.473	0.415	18.4
2-Chloroethylvinylether		0.128	0.128	0.143	0.140	0.142	0.136	5.6
Bromoform	#	0.096	0.130	0.160	0.184	0.174	0.149	24.1#
4-Methyl-2-Pentanone		0.212	0.188	0.213	0.214	0.185	0.202	7.2
2-Hexanone		0.280	0.266	0.282	0.290	0.260	0.276	4.4
Tetrachloroethene		1.351	1.421	1.660	1.685	1.692	1.562	10.4
1,1,2,2-Tetrachloroethane	#	0.360	0.407	0.431	0.511	0.508	0.443	14.8#
Toluene	*	2.084	2.288	2.586	2.695	2.759	2.482	11.6*
Chlorobenzene	#	2.393	2.595	2.940	3.179	3.138	2.849	12.1#
Ethylbenzene	*	1.281	1.335	1.528	1.697	1.803	1.529	14.7*
Styrene		2.508	2.361	2.509	2.906	2.554	2.568	7.9
M-Xylene		2.182	1.862	1.794	2.015	2.040	1.979	7.8
O-&/or P-Xylene		2.121	1.732	1.683	1.894	1.935	1.873	9.3

6A (CONT)

Toluene-d8	2.320	2.328	2.279	2.324	2.327	2.316	0.9
Benzene-d6	2.311	2.177	2.233	2.172	2.194	2.217	2.6
1,2-Dichloroethane-d4	1.917	1.950	1.980	2.137	2.021	2.001	4.3

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Matrix Spike - EPA Sample No.: 89FC20S67

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	10.0	0	6.07	61	61-145
Trichloroethene	10.0	0	8.14	81	71-120
Benzene	10.0	0	10.0	100	76-127
Toluene	10.0	0	8.56	86	76-125
Chlorobenzene	10.0	0	8.78	88	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	10.0	6.06	61	0	14	61-145
Trichloroethene	10.0	8.15	82	+1	14	71-120
Benzene	10.0	10.0	100	0	11	76-127
Toluene	10.0	8.96	90	+5	13	76-125
Chlorobenzene	10.0	9.14	91	+3	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: CLP,6196,,89FC20S67,L,W,,V,EPA,
% RPD BASED ON % RECOVERY

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Lab File ID: 0612BLK2 Lab Sample ID: 0612BLK2

Date Analyzed: 06/12/89 Time Analyzed: 1142

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: INCOS1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	89FC11R03	89FC11R03	6196R03	1349
02	89FC20D66	89FC20D66	6196D66	2027
03	89FC20S66	89FC20S66	6196S66	1943
04	89FC20S67	89FC20S67	6196S67	2111
05	89FC20S68	89FC20S68	6196S68	1433
06	89FC20S69	89FC20S69	6196S69	1517
07	89FC20S70	89FC20S70	6196S70	1601
08	89FC20S71	89FC20S71	6196S71	1645
09	89FC20S72	89FC20S72	6196S72	1729
10	89FC20S73	89FC20S73	6196S73	1814
11	89FC20S67MS	89FC20S67MS	6196S67M	2155
12	89FC20S67MSD	89FC20S67MSD	6196S67D	2239

COMMENTS: CLP,6196,,0612BLK2,L,W,,V,BLANK,
45'(3MIN) TO 220'@ 8'/MIN

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6196 SAS No.: NA SDG No.: NA

Lab File ID: 0613BLK2 Lab Sample ID: 0613BLK2

Date Analyzed: 06/13/89 Time Analyzed: 1206

Matrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: INCOS1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	89FC20S74	89FC20S74	6194S74A	1337
02	MDL0613	MDL0613	MDL0613	2018

COMMENTS: CLP,6195,,0613BLK2,L,W,,V,BLANK,
45'(3MIN) TO 220'@ 8'/MIN

Quantitation Report File: IC10605

Data: IC10605.TI
06/05/89 11:41:00
Sample: CLP,0605,,IC10605,L,W,,V,IC-020,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

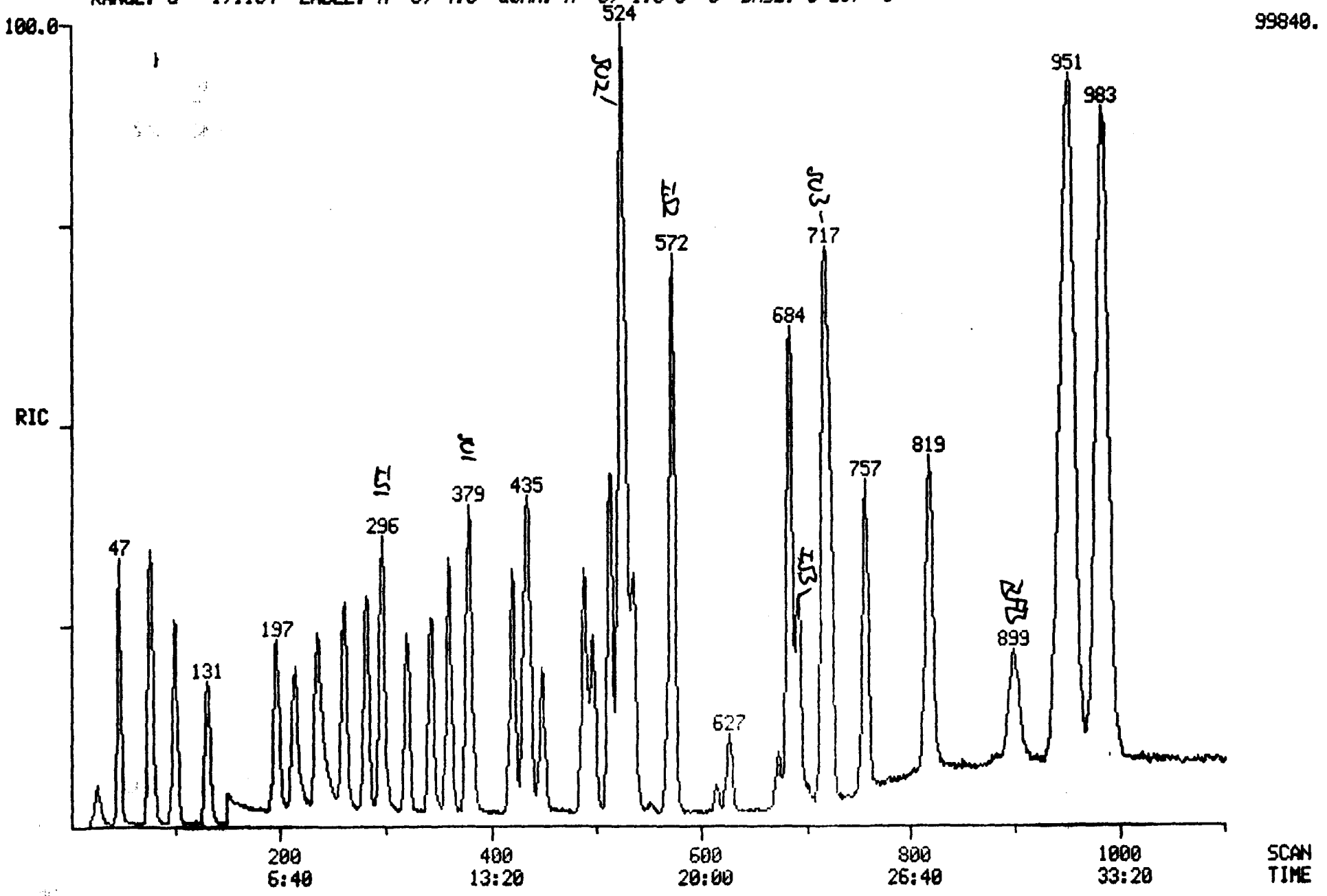
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C230	TOLUENE	
39	C235	CHLOROBENZENE	
40	C240	ETHYL BENZENE	
41	C245	STYRENE	
42	C260	M-XYLENE	
43	C225	1,1,2,2-TETRACHLOROETHANE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	296	9:52	1	1.000	A BB	26040.	10.000	UG/L	1.12
2	77	572	19:04	2	1.000	A BB	104807.	10.000	UG/L	1.12
3	55	693	23:06	3	1.000	A BB	59358.	10.000	UG/L	1.12
4	65	379	12:38	1	1.280	A BB	49929.	7.458	UG/L	0.84
5	84	523	17:26	2	0.914	A BB	242247.	9.867	UG/L	1.11
6	98	717	23:54	3	1.035	A BB	137712.	9.878	UG/L	1.11
7	50	47	1:34	1	0.159	A BB	83262.	6.864	UG/L	0.77
8	94	77	2:34	1	0.260	A BB	69558.	8.278	UG/L	0.93
9	62	100	3:20	1	0.338	A BB	83883.	7.130	UG/L	0.80
10	64	131	4:22	1	0.443	A BB	53446.	6.938	UG/L	0.78
11	84	197	6:34	1	0.666	A BB	25819.	4.013	UG/L	0.45
12	43	214	7:08	1	0.723	A BB	56097.	168.093	UG/L	18.86
13	56	216	7:12	1	0.730	A BB	12944.	167.278	UG/L	18.77
14	76	244	8:08	1	0.824	A BB	8825.	1.752	UG/L	0.20
15	53	235	7:50	1	0.794	A BB	63182.	175.578	UG/L	19.70
16	96	281	9:22	1	0.949	A BB	25900.	2.969	UG/L	0.33
17	63	320	10:40	1	1.081	A BB	62836.	3.049	UG/L	0.34
18	96	343	11:26	1	1.159	A BB	26901.	3.233	UG/L	0.36
19	83	360	12:00	1	1.216	A BB	58467.	3.403	UG/L	0.38
20	62	382	12:44	1	1.291	A BB	21566.	3.304	UG/L	0.37
21	72	378	12:36	2	0.661	A BB	7294.	97.726	UG/L	10.96
22	97	421	14:02	2	0.736	A BB	53379.	4.308	UG/L	0.48
23	117	433	14:26	2	0.757	A VB	42574.	4.125	UG/L	0.46
24	43	436	14:32	2	0.762	A BB	115278.	27.077	UG/L	3.04
25	83	449	14:58	2	0.785	A BB	32837.	4.566	UG/L	0.51
26	63	489	16:18	2	0.855	A BB	33331.	4.214	UG/L	0.47
27	75	497	16:34	2	0.869	A BB	37050.	5.373	UG/L	0.60
28	130	513	17:06	2	0.897	A BB	40856.	4.562	UG/L	0.51
29	129	533	17:46	2	0.932	A BB	14835.	4.839	UG/L	0.54
30	97	536	17:52	2	0.937	A BB	13145.	5.102	UG/L	0.57
31	78	528	17:36	2	0.923	A BB	88924.	4.115	UG/L	0.46
32	75	536	17:52	2	0.937	A BB	13394.	3.380	UG/L	0.38
33	63	568	18:56	2	0.993	A BB	6716.	5.248	UG/L	0.59
34	173	615	20:30	2	1.075	A BB	5056.	5.648	UG/L	0.63
35	43	627	20:54	3	0.905	A BB	24902.	17.170	UG/L	1.93
36	43	674	22:28	3	0.973	A BB	18901.	17.329	UG/L	1.94
37	164	683	22:46	3	0.986	A BB	40090.	5.161	UG/L	0.58
38	92	722	24:04	3	1.042	A BB	61839.	4.235	UG/L	0.48
39	112	757	25:14	3	1.092	A BB	71035.	4.696	UG/L	0.53
40	106	819	27:18	3	1.182	A BB	38021.	4.467	UG/L	0.50
41	104	945	31:30	3	1.364	A BB	111652.	8.333	UG/L	0.93
42	106	952	31:44	3	1.374	A BB	129515.	11.012	UG/L	1.24
43	83	684	22:48	3	0.987	A BB	10689.	4.887	UG/L	0.55
44	106	983	32:46	3	1.418	A BB	157386.	14.705	UG/L	1.65

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	7.46	10.00	1.917	2.571	0.75
5	17:26	1.00	0.917	1.00	9.87	10.00	2.311	2.343	0.99
6	23:52	1.00	1.038	1.00	9.88	10.00	2.320	2.349	0.99
7	1:38	0.96	0.181	0.88	6.86	10.00	3.197	4.658	0.69
8	2:36	0.99	0.285	0.91	8.28	10.00	2.671	3.227	0.83
9	3:22	0.99	0.361	0.94	7.13	10.00	3.221	4.518	0.71
10	4:22	1.00	0.462	0.96	6.94	10.00	2.052	2.958	0.69

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:30	1.01	0.681	0.98	4.01	5.00	1.983	2.470	0.80
12	7:06	1.00	0.757	0.96	168.09	225.00	0.096	0.128	0.75
13	7:06	1.01	0.757	0.96	167.28	225.00	0.022	0.030	0.74
14	8:[illegible]	1.00	0.833	0.99	1.75	7.50	0.452	1.935	0.23
15	7:48	1.00	0.826	0.96	175.58	225.00	0.108	0.138	0.78
16	9:22	1.00	0.955	0.99	2.97	5.00	1.989	3.350	0.59
17	10:40	1.00	1.090	0.99	3.05	5.00	4.826	7.915	0.61
18	11:24	1.00	1.170	0.99	3.23	5.00	2.066	3.195	0.65
19	12:02	1.00	1.229	0.99	3.40	5.00	4.490	6.598	0.68
20	12:44	1.00	1.312	0.98	3.30	5.00	1.656	2.506	0.66
21	12:36	1.00	0.664	0.99	97.73	75.00	0.009	0.007	1.30
22	14:02	1.00	0.731	1.01	4.31	5.00	1.019	1.182	0.86
23	14:26	1.00	0.752	1.01	4.12	5.00	0.812	0.985	0.82
24	14:34	1.00	0.764	1.00	27.08	22.50	0.489	0.406	1.20
25	15:00	1.00	0.780	1.01	4.57	5.00	0.627	0.686	0.91
26	16:20	1.00	0.854	1.00	4.21	5.00	0.636	0.755	0.84
27	16:34	1.00	0.868	1.00	5.37	6.00	0.589	0.658	0.90
28	17:06	1.00	0.898	1.00	4.56	5.00	0.780	0.855	0.91
29	17:48	1.00	0.930	1.00	4.84	5.00	0.283	0.293	0.97
30	17:54	1.00	0.937	1.00	5.10	5.00	0.251	0.246	1.02
31	17:36	1.00	0.924	1.00	4.12	5.00	1.697	2.062	0.82
32	17:52	1.00	0.937	1.00	3.38	4.00	0.319	0.378	0.84
33	18:56	1.00	0.995	1.00	5.25	5.00	0.128	0.122	1.05
34	20:30	1.00	1.076	1.00	5.65	5.00	0.096	0.085	1.13
35	20:56	1.00	0.907	1.00	17.17	15.00	0.280	0.244	1.14
36	22:28	1.00	0.974	1.00	17.33	15.00	0.212	0.184	1.16
37	22:48	1.00	0.990	1.00	5.16	5.00	1.351	1.309	1.03
38	24:04	1.00	1.046	1.00	4.23	5.00	2.084	2.460	0.85
39	25:14	1.00	1.097	1.00	4.70	5.00	2.393	2.549	0.94
40	27:16	1.00	1.186	1.00	4.47	5.00	1.281	1.434	0.89
41	31:24	1.00	1.367	1.00	8.33	7.50	2.508	2.257	1.11
42	31:42	1.00	1.378	1.00	11.01	10.00	2.182	1.981	1.10
43	22:48	1.00	0.988	1.00	4.89	5.00	0.360	0.368	0.98
44	32:44	1.00	1.425	1.00	14.71	12.50	2.121	1.803	1.18

RIC DATA: IC10605 #1 SCANS 1 TO 1100
06/05/89 11:41:00 CALI: IC10605 #3
SAMPLE: CLP,0605,,IC10605,L,W,,V,IC-020,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: IC20605

Data: IC20605.TI
06/05/89 12:26:00
Sample: CLP,0605,,IC20605,L,W,,V,IC-050,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

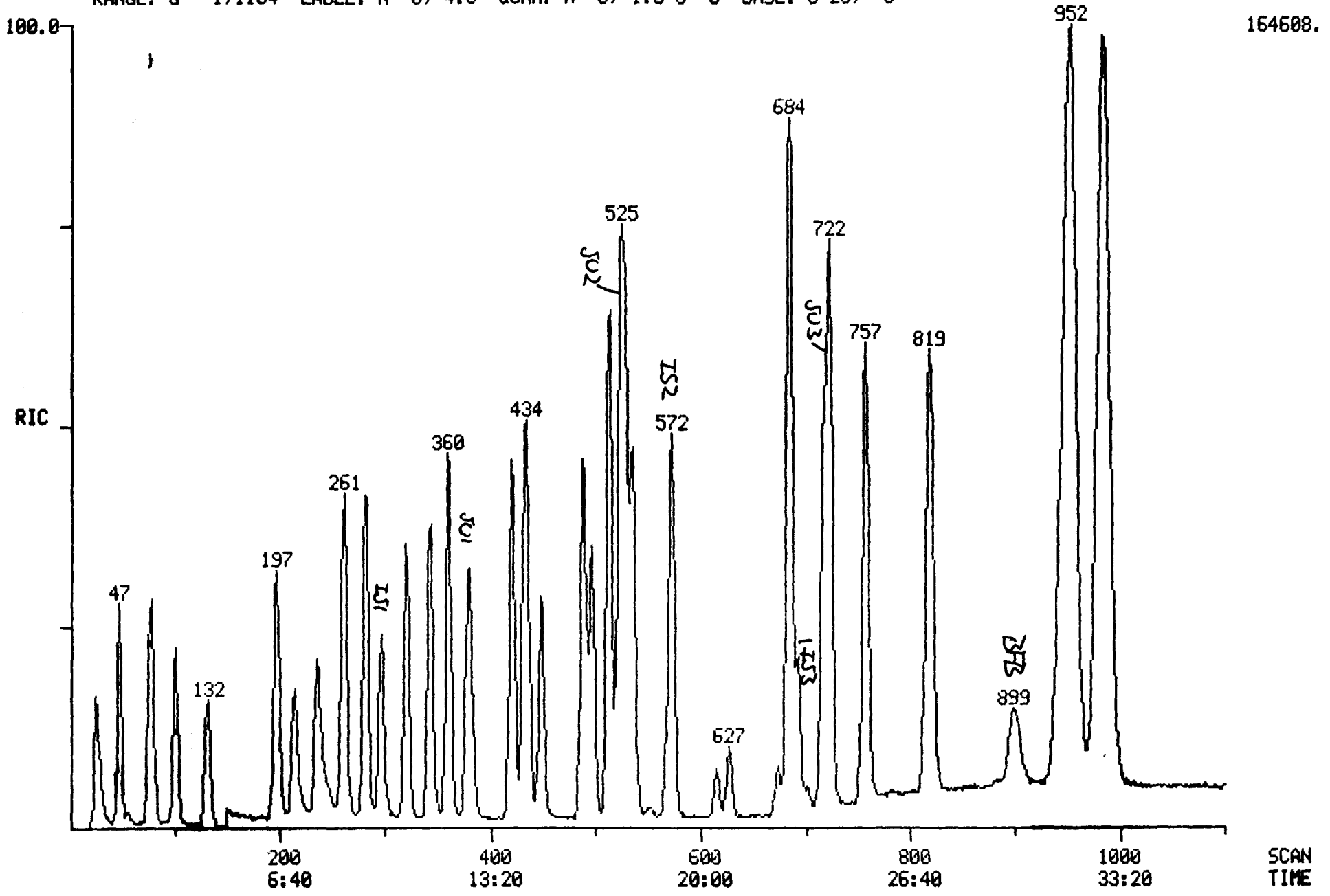
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	296	9:52	1	1.000	A BB	29200.	10.000	UG/L	0.83
2	77	573	19:06	2	1.000	A BB	121352.	10.000	UG/L	0.83
3	55	692	23:04	3	1.000	A BB	67215.	10.000	UG/L	0.83
4	65	379	12:38	1	1.280	A BB	56927.	7.583	UG/L	0.63
5	84	524	17:28	2	0.914	A BB	264206.	9.294	UG/L	0.77
6	98	717	23:54	3	1.036	A BB	156467.	9.911	UG/L	0.83
7	50	47	1:34	1	0.159	A BB	119990.	8.822	UG/L	0.74
8	94	78	2:36	1	0.264	A BB	98640.	10.469	UG/L	0.87
9	62	101	3:22	1	0.341	A BV	118966.	9.018	UG/L	0.75
10	64	131	4:22	1	0.443	A BB	79554.	9.209	UG/L	0.77
11	84	197	6:34	1	0.666	A BB	63082.	8.745	UG/L	0.73
12	43	214	7:08	1	0.723	A BB	85606.	228.759	UG/L	19.07
13	56	215	7:10	1	0.726	A BB	16873.	194.466	UG/L	16.21
14	76	244	8:08	1	0.824	A BB	11484.	2.033	UG/L	0.17
15	53	236	7:52	1	0.797	A BB	88987.	220.530	UG/L	18.38
16	96	281	9:22	1	0.949	A BB	66009.	6.748	UG/L	0.56
17	63	320	10:40	1	1.081	A BB	158100.	6.840	UG/L	0.57
18	96	343	11:26	1	1.159	A BB	67777.	7.264	UG/L	0.61
19	83	360	12:00	1	1.216	A BB	137747.	7.150	UG/L	0.60
20	62	382	12:44	1	1.291	A BB	54567.	7.456	UG/L	0.62
21	72	378	12:36	2	0.660	A BB	10217.	118.218	UG/L	9.86
22	97	421	14:02	2	0.735	A BB	128775.	8.975	UG/L	0.75
23	117	433	14:26	2	0.756	A VB	112454.	9.410	UG/L	0.78
24	43	436	14:32	2	0.761	A BV	134316.	27.247	UG/L	2.27
25	83	449	14:58	2	0.784	A BB	85397.	10.255	UG/L	0.85
26	63	489	16:18	2	0.853	A BB	81926.	8.945	UG/L	0.75
27	75	497	16:34	2	0.867	A BB	93431.	11.701	UG/L	0.98
28	130	514	17:08	2	0.897	A BV	104532.	10.081	UG/L	0.84
29	129	534	17:48	2	0.932	A BB	41935.	11.814	UG/L	0.98
30	97	536	17:52	2	0.935	A BB	32010.	10.729	UG/L	0.89
31	78	528	17:36	2	0.921	A BB	215317.	8.605	UG/L	0.72
32	75	536	17:52	2	0.935	A BB	33476.	7.295	UG/L	0.61
33	63	567	18:54	2	0.990	A BB	15486.	10.451	UG/L	0.87
34	173	615	20:30	2	1.073	A BB	15773.	15.218	UG/L	1.27
35	43	627	20:54	3	0.906	A BB	35725.	21.753	UG/L	1.81
36	43	673	22:26	3	0.973	A BB	25277.	20.466	UG/L	1.71
37	164	684	22:48	3	0.988	A BB	95526.	10.861	UG/L	0.91
38	83	684	22:48	3	0.988	A BV	27340.	11.039	UG/L	0.92
39	92	723	24:06	3	1.045	A BB	153782.	9.300	UG/L	0.78
40	112	757	25:14	3	1.094	A BB	174422.	10.182	UG/L	0.85
41	106	819	27:18	3	1.184	A BB	89751.	9.311	UG/L	0.78
42	104	944	31:28	3	1.364	A BB	158721.	10.462	UG/L	0.87
43	106	952	31:44	3	1.376	A BB	250312.	18.794	UG/L	1.57
44	106	983	32:46	3	1.421	A BB	292254.	24.114	UG/L	2.01

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	7.58	10.00	1.950	2.571	0.76
5	17:26	1.00	0.917	1.00	9.29	10.00	2.177	2.343	0.93
6	23:52	1.00	1.038	1.00	9.91	10.00	2.328	2.349	0.99
7	1:38	0.96	0.181	0.88	8.82	15.00	2.739	4.658	0.59
8	2:36	1.00	0.285	0.93	10.47	15.00	2.252	3.227	0.70
9	3:22	1.00	0.361	0.94	9.02	15.00	2.716	4.518	0.60
10	4:22	1.00	0.462	0.96	9.21	15.00	1.816	2.958	0.61

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:30	1.01	0.681	0.98	8.74	10.00	2.160	2.470	0.87
12	7:06	1.00	0.757	0.96	228.76	300.00	0.098	0.128	0.76
13	7:06	1.01	0.757	0.96	194.47	300.00	0.019	0.030	0.65
14	8:06	1.00	0.833	0.99	2.03	10.00	0.393	1.935	0.20
15	7:48	1.01	0.826	0.96	220.53	300.00	0.102	0.138	0.74
16	9:22	1.00	0.955	0.99	6.75	10.00	2.261	3.350	0.67
17	10:40	1.00	1.090	0.99	6.84	10.00	5.414	7.915	0.68
18	11:24	1.00	1.170	0.99	7.26	10.00	2.321	3.195	0.73
19	12:02	1.00	1.229	0.99	7.15	10.00	4.717	6.598	0.71
20	12:44	1.00	1.312	0.98	7.46	10.00	1.869	2.506	0.75
21	12:36	1.00	0.664	0.99	118.22	100.00	0.008	0.007	1.18
22	14:02	1.00	0.731	1.00	8.98	10.00	1.061	1.182	0.90
23	14:26	1.00	0.752	1.00	9.41	10.00	0.927	0.985	0.94
24	14:34	1.00	0.764	1.00	27.25	30.00	0.369	0.406	0.91
25	15:00	1.00	0.780	1.00	10.26	10.00	0.704	0.686	1.03
26	16:20	1.00	0.854	1.00	8.94	10.00	0.675	0.755	0.89
27	16:34	1.00	0.868	1.00	11.70	12.00	0.642	0.658	0.98
28	17:06	1.00	0.898	1.00	10.08	10.00	0.861	0.855	1.01
29	17:48	1.00	0.930	1.00	11.81	10.00	0.346	0.293	1.18
30	17:54	1.00	0.937	1.00	10.73	10.00	0.264	0.246	1.07
31	17:36	1.00	0.924	1.00	8.61	10.00	1.774	2.062	0.86
32	17:52	1.00	0.937	1.00	7.30	8.00	0.345	0.378	0.91
33	18:56	1.00	0.995	0.99	10.45	10.00	0.128	0.122	1.05
34	20:30	1.00	1.076	1.00	15.22	10.00	0.130	0.085	1.52
35	20:56	1.00	0.907	1.00	21.75	20.00	0.266	0.244	1.09
36	22:28	1.00	0.974	1.00	20.47	20.00	0.188	0.184	1.02
37	22:48	1.00	0.990	1.00	10.86	10.00	1.421	1.309	1.09
38	22:48	1.00	0.988	1.00	11.04	10.00	0.407	0.368	1.10
39	24:04	1.00	1.046	1.00	9.30	10.00	2.288	2.460	0.93
40	25:14	1.00	1.097	1.00	10.18	10.00	2.595	2.549	1.02
41	27:16	1.00	1.186	1.00	9.31	10.00	1.335	1.434	0.93
42	31:24	1.00	1.367	1.00	10.46	10.00	2.361	2.257	1.05
43	31:42	1.00	1.378	1.00	18.79	20.00	1.862	1.981	0.94
44	32:44	1.00	1.425	1.00	24.11	25.10	1.732	1.803	0.96

RIC DATA: IC20605 #1 SCANS 1 TO 1100
06/05/89 12:26:00 CALI: IC20605 #3
SAMPLE: CLP,0605,,IC20605,L,W,,V,IC-050,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: IC30605

Data: IC30605.TI
06/05/89 10:22:00
Sample: CLP,0605,,IC30605,L,W,,V,IC-100,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

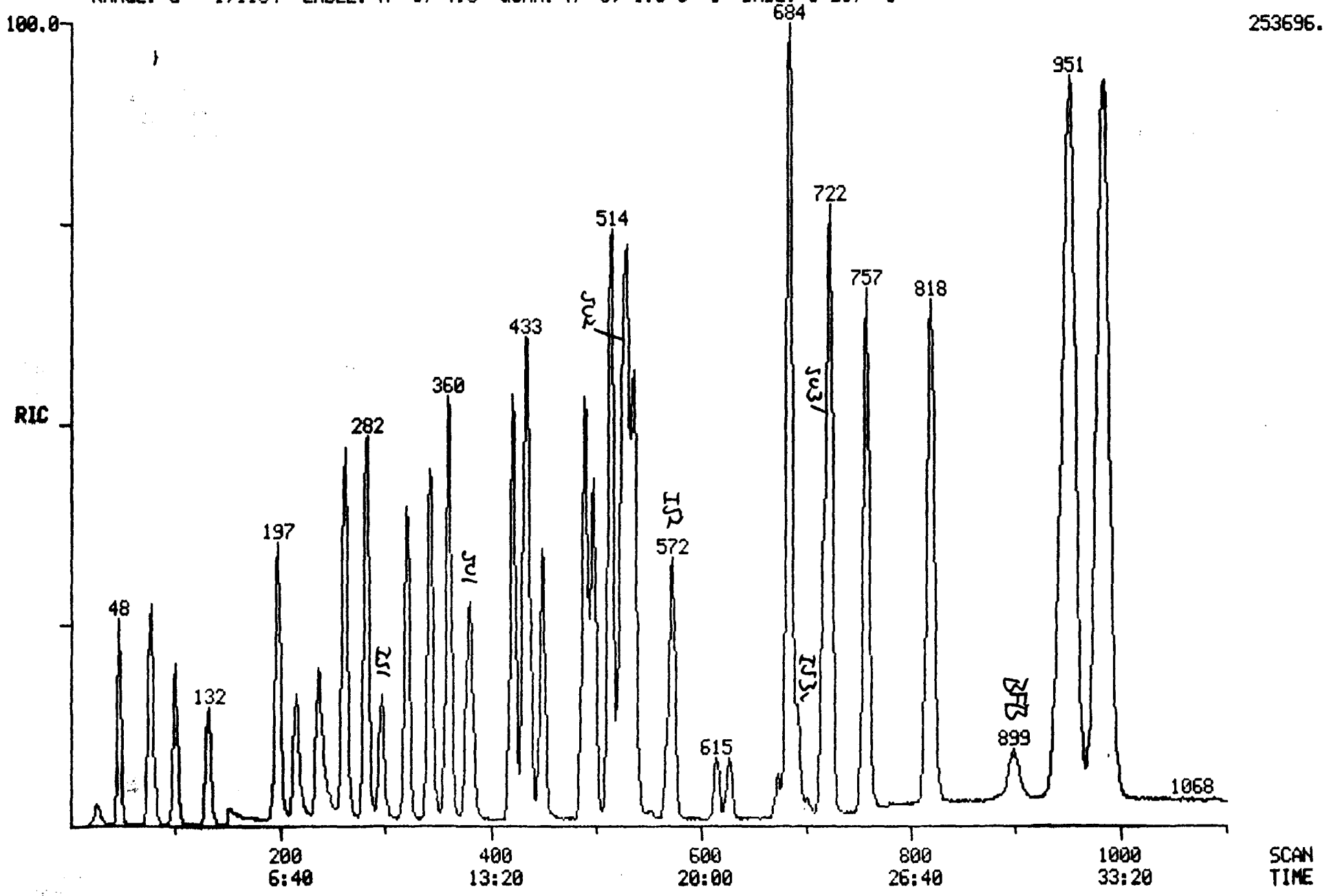
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C260	M-XYLENE	
43	C270	O-&/OR P-XYLENE	
44	C245	STYRENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	296	9:52	1	1.000	A BB	29613.	10.000	UG/L	0.56
2	77	572	19:04	2	1.000	A BB	123209.	10.000	UG/L	0.56
3	55	692	23:04	3	1.000	A BB	68614.	10.000	UG/L	0.56
4	65	379	12:38	1	1.280	A BB	58620.	7.700	UG/L	0.43
5	84	524	17:28	2	0.916	A VB	275150.	9.533	UG/L	0.53
6	98	717	23:54	3	1.036	A BB	156345.	9.702	UG/L	0.54
7	50	48	1:36	1	0.162	A BB	161377.	11.699	UG/L	0.66
8	94	78	2:36	1	0.264	A BB	139145.	14.562	UG/L	0.82
9	62	101	3:22	1	0.341	A BB	162347.	12.135	UG/L	0.68
10	64	132	4:24	1	0.446	A BB	112111.	12.797	UG/L	0.72
11	84	197	6:34	1	0.666	A BB	102834.	14.057	UG/L	0.79
12	43	214	7:08	1	0.723	A BB	125922.	331.795	UG/L	18.58
13	56	216	7:12	1	0.730	A BB	25390.	288.531	UG/L	16.16
14	76	244	8:08	1	0.824	A BB	17242.	3.010	UG/L	0.17
15	53	236	7:52	1	0.797	A BB	131289.	320.824	UG/L	17.97
16	96	281	9:22	1	0.949	A BB	124974.	12.597	UG/L	0.71
17	63	320	10:40	1	1.081	A BB	274729.	11.721	UG/L	0.66
18	96	342	11:24	1	1.155	A BB	119717.	12.652	UG/L	0.71
19	83	360	12:00	1	1.216	A BB	253269.	12.963	UG/L	0.73
20	62	382	12:44	1	1.291	A BB	94135.	12.683	UG/L	0.71
21	72	378	12:36	2	0.661	A BB	14721.	167.764	UG/L	9.40
22	97	421	14:02	2	0.736	A BB	232199.	15.939	UG/L	0.89
23	117	433	14:26	2	0.757	A VB	214724.	17.696	UG/L	0.99
24	43	436	14:32	2	0.762	A BB	226459.	45.246	UG/L	2.53
25	83	449	14:58	2	0.785	A BB	158233.	18.715	UG/L	1.05
26	63	489	16:18	2	0.855	A BB	146708.	15.776	UG/L	0.88
27	75	497	16:34	2	0.869	A BB	170813.	21.069	UG/L	1.18
28	130	514	17:08	2	0.899	A BB	186462.	17.710	UG/L	0.99
29	129	534	17:48	2	0.934	A BB	82317.	22.841	UG/L	1.28
30	97	536	17:52	2	0.937	A BB	56584.	18.679	UG/L	1.05
31	78	528	17:36	2	0.923	A BB	383878.	15.111	UG/L	0.85
32	75	536	17:52	2	0.937	A BB	68090.	14.615	UG/L	0.82
33	63	568	18:56	2	0.993	A BB	26416.	17.558	UG/L	0.98
34	173	615	20:30	2	1.075	A BB	29662.	28.187	UG/L	1.58
35	43	627	20:54	3	0.906	A BB	48304.	28.813	UG/L	1.61
36	43	673	22:26	3	0.973	A BB	36512.	28.960	UG/L	1.62
37	164	683	22:46	3	0.987	A BB	170845.	19.028	UG/L	1.07
38	83	683	22:46	3	0.987	A BB	44390.	17.558	UG/L	0.98
39	92	722	24:04	3	1.043	A BB	266160.	15.768	UG/L	0.88
40	112	757	25:14	3	1.094	A BB	302590.	17.304	UG/L	0.97
41	106	819	27:18	3	1.184	A BB	157256.	15.982	UG/L	0.90
42	106	952	31:44	3	1.376	A BB	369245.	27.159	UG/L	1.52
43	106	984	32:48	3	1.422	A BB	434252.	35.100	UG/L	1.97
44	104	943	31:26	3	1.363	A BB	215222.	13.897	UG/L	0.78

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	7.70	10.00	1.980	2.571	0.77
5	17:26	1.00	0.917	1.00	9.53	10.00	2.233	2.343	0.95
6	23:52	1.00	1.038	1.00	9.70	10.00	2.279	2.349	0.97
7	1:38	0.98	0.181	0.90	11.70	20.00	2.725	4.658	0.58
8	2:36	1.00	0.285	0.93	14.56	20.00	2.349	3.227	0.73
9	3:22	1.00	0.361	0.94	12.14	20.00	2.741	4.518	0.61
10	4:22	1.01	0.462	0.97	12.80	20.00	1.893	2.958	0.64

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:30	1.01	0.681	0.98	14.06	15.00	2.315	2.470	0.94
12	7:06	1.00	0.757	0.96	331.80	375.00	0.113	0.128	0.88
13	7:06	1.01	0.757	0.96	288.53	375.00	0.023	0.030	0.77
14	8:06	1.00	0.833	0.99	3.01	12.50	0.466	1.935	0.24
15	7:48	1.01	0.826	0.96	320.82	375.00	0.118	0.138	0.86
16	9:22	1.00	0.955	0.99	12.60	15.00	2.813	3.350	0.84
17	10:40	1.00	1.090	0.99	11.72	15.00	6.185	7.915	0.78
18	11:24	1.00	1.170	0.99	12.65	15.00	2.695	3.195	0.84
19	12:02	1.00	1.229	0.99	12.96	15.00	5.702	6.598	0.86
20	12:44	1.00	1.312	0.98	12.68	15.00	2.119	2.506	0.85
21	12:36	1.00	0.664	0.99	167.76	125.00	0.010	0.007	1.34
22	14:02	1.00	0.731	1.01	15.94	15.00	1.256	1.182	1.06
23	14:26	1.00	0.752	1.01	17.70	15.00	1.162	0.985	1.18
24	14:34	1.00	0.764	1.00	45.25	37.50	0.490	0.406	1.21
25	15:00	1.00	0.780	1.01	18.72	15.00	0.856	0.686	1.25
26	16:20	1.00	0.854	1.00	15.78	15.00	0.794	0.755	1.05
27	16:34	1.00	0.868	1.00	21.07	18.00	0.770	0.658	1.17
28	17:06	1.00	0.898	1.00	17.71	15.00	1.009	0.855	1.18
29	17:48	1.00	0.930	1.00	22.84	15.00	0.445	0.293	1.52
30	17:54	1.00	0.937	1.00	18.68	15.00	0.306	0.246	1.25
31	17:36	1.00	0.924	1.00	15.11	15.00	2.077	2.062	1.01
32	17:52	1.00	0.937	1.00	14.61	12.00	0.461	0.378	1.22
33	18:56	1.00	0.995	1.00	17.56	15.00	0.143	0.122	1.17
34	20:30	1.00	1.076	1.00	28.19	15.00	0.160	0.085	1.88
35	20:56	1.00	0.907	1.00	28.81	25.00	0.282	0.244	1.15
36	22:28	1.00	0.974	1.00	28.96	25.00	0.213	0.184	1.16
37	22:48	1.00	0.990	1.00	19.03	15.00	1.660	1.309	1.27
38	22:48	1.00	0.988	1.00	17.56	15.00	0.431	0.368	1.17
39	24:04	1.00	1.046	1.00	15.77	15.00	2.586	2.460	1.05
40	25:14	1.00	1.097	1.00	17.30	15.00	2.940	2.549	1.15
41	27:16	1.00	1.186	1.00	15.98	15.00	1.528	1.434	1.07
42	31:42	1.00	1.378	1.00	27.16	30.00	1.794	1.981	0.91
43	32:44	1.00	1.425	1.00	35.10	37.60	1.683	1.803	0.93
44	31:24	1.00	1.367	1.00	13.90	12.50	2.509	2.257	1.11

RIC DATA: IC30605 #1 SCANS 1 TO 1100
06/05/89 10:22:00 CALI: IC30605 #3
SAMPLE: CLP,0605,,IC30605,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: IC40605A

Data: IC40605A.TI
06/05/89 15:28:00
Sample: CLP,0605,,IC40605,L,W,,V,IC-150,
Conds.: 35'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

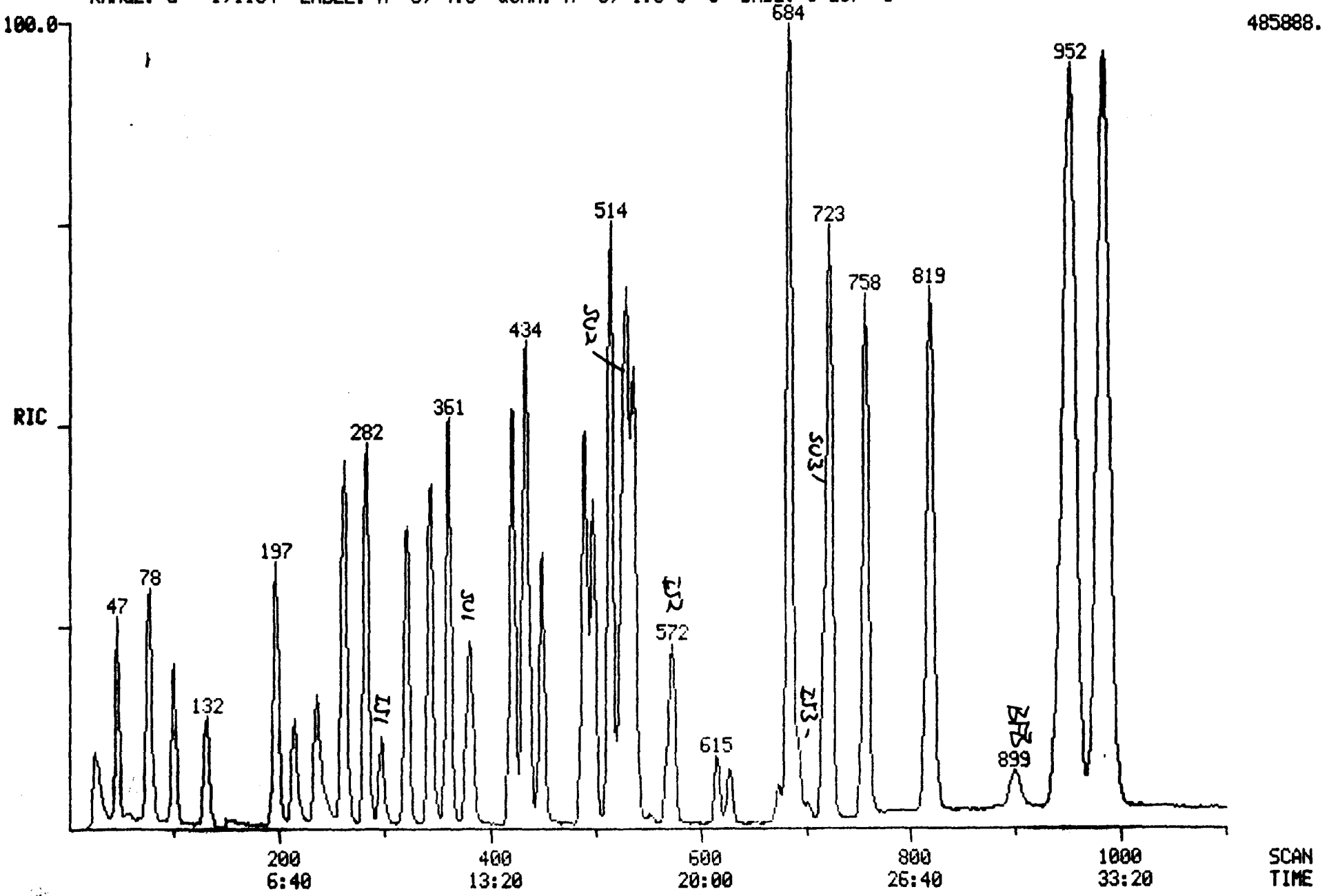
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C245	STYRENE	
43	C260	M-XYLENE	
44	C270	O-&/OR P-XYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	297	9:54	1	1.000	A BB	39662.	10.000	UG/L	0.44
2	77	573	19:06	2	1.000	A BB	176105.	10.000	UG/L	0.44
3	55	692	23:04	3	1.000	A BB	95276.	10.000	UG/L	0.44
4	65	379	12:38	1	1.276	A BV	84776.	8.314	UG/L	0.37
5	84	524	17:28	2	0.914	A BB	382517.	9.272	UG/L	0.41
6	98	717	23:54	3	1.036	A BB	221403.	9.894	UG/L	0.44
7	50	47	1:34	1	0.158	A BB	299576.	16.215	UG/L	0.72
8	94	78	2:36	1	0.263	A BB	296353.	23.156	UG/L	1.02
9	62	101	3:22	1	0.340	A BB	312789.	17.457	UG/L	0.77
10	64	132	4:24	1	0.444	A BB	204236.	17.406	UG/L	0.77
11	84	197	6:34	1	0.663	A BB	202061.	20.622	UG/L	0.91
12	43	214	7:08	1	0.721	A BB	198208.	389.939	UG/L	17.24
13	56	215	7:10	1	0.724	A BB	41834.	354.955	UG/L	15.69
14	76	244	8:08	1	0.822	A BB	29612.	3.859	UG/L	0.17
15	53	236	7:52	1	0.795	A BB	212373.	387.475	UG/L	17.13
16	96	282	9:24	1	0.949	A BB	245884.	18.505	UG/L	0.82
17	63	321	10:42	1	1.081	A BB	506581.	16.136	UG/L	0.71
18	96	343	11:26	1	1.155	A BB	237810.	18.764	UG/L	0.83
19	83	361	12:02	1	1.215	A BB	504235.	19.269	UG/L	0.85
20	62	382	12:44	1	1.286	A BB	182531.	18.362	UG/L	0.81
21	72	378	12:36	2	0.660	A BB	25816.	205.839	UG/L	9.10
22	97	421	14:02	2	0.735	A BB	460563.	22.119	UG/L	0.98
23	117	433	14:26	2	0.756	A VB	437325.	25.216	UG/L	1.11
24	43	437	14:34	2	0.763	A BB	378995.	52.978	UG/L	2.34
25	83	450	15:00	2	0.785	A BB	316253.	26.170	UG/L	1.16
26	63	490	16:20	2	0.855	A BB	271192.	20.403	UG/L	0.90
27	75	497	16:34	2	0.867	A BB	345880.	29.849	UG/L	1.32
28	130	514	17:08	2	0.897	A BB	373825.	24.842	UG/L	1.10
29	129	534	17:48	2	0.932	A BB	179721.	34.889	UG/L	1.54
30	97	537	17:54	2	0.937	A BB	115940.	26.778	UG/L	1.18
31	78	529	17:38	2	0.923	A BB	749127.	20.631	UG/L	0.91
32	75	536	17:52	2	0.935	A BB	134082.	20.135	UG/L	0.89
33	63	568	18:56	2	0.991	A BB	49157.	22.860	UG/L	1.01
34	173	615	20:30	2	1.073	A BB	64655.	42.986	UG/L	1.90
35	43	627	20:54	3	0.906	A BB	82813.	35.574	UG/L	1.57
36	43	674	22:28	3	0.974	A BB	61075.	34.886	UG/L	1.54
37	164	684	22:48	3	0.988	A BB	321092.	25.755	UG/L	1.14
38	83	684	22:48	3	0.988	A BB	97431.	27.753	UG/L	1.23
39	92	723	24:06	3	1.045	A BB	513545.	21.910	UG/L	0.97
40	112	757	25:14	3	1.094	A BB	605684.	24.944	UG/L	1.10
41	106	819	27:18	3	1.184	A BB	323291.	23.661	UG/L	1.05
42	104	945	31:30	3	1.366	A BB	415244.	19.309	UG/L	0.85
43	106	953	31:46	3	1.377	A BB	768076.	40.685	UG/L	1.80
44	106	984	32:48	3	1.422	A BB	904064.	52.626	UG/L	2.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	8.31	10.00	2.137	2.571	0.83
5	17:26	1.00	0.917	1.00	9.27	10.00	2.172	2.343	0.93
6	23:52	1.00	1.038	1.00	9.89	10.00	2.324	2.349	0.99
7	1:38	0.96	0.181	0.88	16.21	25.00	3.021	4.658	0.65
8	2:36	1.00	0.285	0.92	23.16	25.00	2.989	3.227	0.93
9	3:22	1.00	0.361	0.94	17.46	25.00	3.155	4.518	0.70
10	4:22	1.01	0.462	0.96	17.41	25.00	2.060	2.958	0.70

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:30	1.01	0.681	0.97	20.62	20.00	2.547	2.470	1.03
12	7:06	1.00	0.757	0.95	389.94	450.00	0.111	0.128	0.87
13	7:06	1.01	0.757	0.96	354.96	450.00	0.023	0.030	0.79
14	8:06	1.00	0.833	0.99	3.86	15.00	0.498	1.935	0.26
15	7:48	1.01	0.826	0.96	387.48	450.00	0.119	0.138	0.86
16	9:22	1.00	0.955	0.99	18.50	20.00	3.100	3.350	0.93
17	10:40	1.00	1.090	0.99	16.14	20.00	6.386	7.915	0.81
18	11:24	1.00	1.170	0.99	18.76	20.00	2.998	3.195	0.94
19	12:02	1.00	1.229	0.99	19.27	20.00	6.357	6.598	0.96
20	12:44	1.00	1.312	0.98	18.36	20.00	2.301	2.506	0.92
21	12:36	1.00	0.664	0.99	205.84	150.00	0.010	0.007	1.37
22	14:02	1.00	0.731	1.00	22.12	20.00	1.308	1.182	1.11
23	14:26	1.00	0.752	1.00	25.22	20.00	1.242	0.985	1.26
24	14:34	1.00	0.764	1.00	52.98	45.00	0.478	0.406	1.18
25	15:00	1.00	0.780	1.01	26.17	20.00	0.898	0.686	1.31
26	16:20	1.00	0.854	1.00	20.40	20.00	0.770	0.755	1.02
27	16:34	1.00	0.868	1.00	29.85	24.00	0.818	0.658	1.24
28	17:06	1.00	0.898	1.00	24.84	20.00	1.061	0.855	1.24
29	17:48	1.00	0.930	1.00	34.89	20.00	0.510	0.293	1.74
30	17:54	1.00	0.937	1.00	26.78	20.00	0.329	0.246	1.34
31	17:36	1.00	0.924	1.00	20.63	20.00	2.127	2.062	1.03
32	17:52	1.00	0.937	1.00	20.13	16.00	0.476	0.378	1.26
33	18:56	1.00	0.995	1.00	22.86	20.00	0.140	0.122	1.14
34	20:30	1.00	1.076	1.00	42.99	20.00	0.184	0.085	2.15
35	20:56	1.00	0.907	1.00	35.57	30.00	0.290	0.244	1.19
36	22:28	1.00	0.974	1.00	34.89	30.00	0.214	0.184	1.16
37	22:48	1.00	0.990	1.00	25.75	20.00	1.685	1.309	1.29
38	22:48	1.00	0.988	1.00	27.75	20.00	0.511	0.368	1.39
39	24:04	1.00	1.046	1.00	21.91	20.00	2.695	2.460	1.10
40	25:14	1.00	1.097	1.00	24.94	20.00	3.179	2.549	1.25
41	27:16	1.00	1.186	1.00	23.66	20.00	1.697	1.434	1.18
42	31:24	1.00	1.367	1.00	19.31	15.00	2.906	2.257	1.29
43	31:42	1.00	1.378	1.00	40.68	40.00	2.015	1.981	1.02
44	32:44	1.00	1.425	1.00	52.63	50.10	1.894	1.803	1.05

RIC DATA: IC40605A #1 SCANS 1 TO 1100
06/05/89 15:28:00 CALI: IC40605A #3
SAMPLE: CLP,0605,,IC40605,L,W,,V,IC-150,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: IC50605

Data: IC50605.TI
06/05/89 13:49:00
Sample: CLP,0605,,IC50605,L,W,,V,IC-200,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

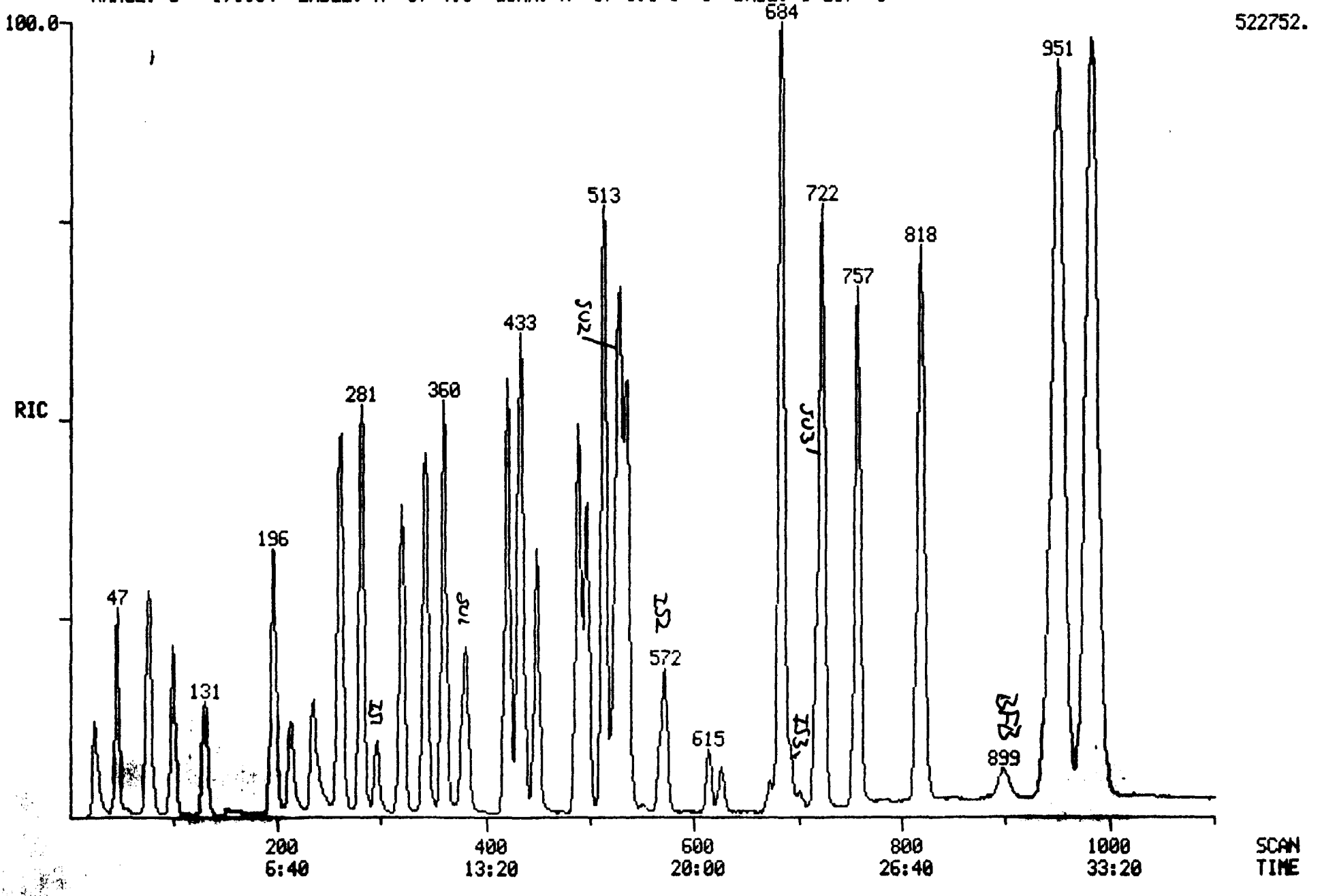
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C210	2-HEXANONE	
36	C205	4-METHYL-2-PENTANONE	
37	C220	TETRACHLOROETHENE	
38	C225	1,1,2,2-TETRACHLOROETHANE	
39	C230	TOLUENE	
40	C235	CHLOROBENZENE	
41	C240	ETHYL BENZENE	
42	C260	M-XYLENE	
43	C270	O-&/OR P-XYLENE	
44	C245	STYRENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	296	9:52	1	1.000	A BB	35820.	10.000	UG/L	0.39
2	77	572	19:04	2	1.000	A BB	145868.	10.000	UG/L	0.39
3	55	692	23:04	3	1.000	A BB	81732.	10.000	UG/L	0.39
4	65	379	12:38	1	1.280	A BB	72387.	7.860	UG/L	0.31
5	84	524	17:28	2	0.916	A VV	320082.	9.367	UG/L	0.37
6	98	716	23:52	3	1.035	A BB	190192.	9.908	UG/L	0.39
7	50	47	1:34	1	0.159	A BV	358574.	21.490	UG/L	0.84
8	94	77	2:34	1	0.260	A BB	335132.	28.995	UG/L	1.13
9	62	100	3:20	1	0.338	A BB	373916.	23.107	UG/L	0.90
10	64	131	4:22	1	0.443	A BB	237570.	22.419	UG/L	0.88
11	84	196	6:32	1	0.662	A BB	220079.	24.870	UG/L	0.97
12	43	213	7:06	1	0.720	A BB	195562.	426.006	UG/L	16.63
13	56	214	7:08	1	0.723	A BB	41514.	390.021	UG/L	15.23
14	76	244	8:08	1	0.824	A BB	30346.	4.379	UG/L	0.17
15	53	235	7:50	1	0.794	A BB	209596.	423.432	UG/L	16.53
16	96	281	9:22	1	0.949	A BB	284372.	23.697	UG/L	0.93
17	63	320	10:40	1	1.081	A BB	572842.	20.204	UG/L	0.79
18	96	342	11:24	1	1.155	A BB	266627.	23.295	UG/L	0.91
19	83	360	12:00	1	1.216	A BB	534550.	22.619	UG/L	0.88
20	62	382	12:44	1	1.291	A BB	189365.	21.093	UG/L	0.82
21	72	377	12:34	2	0.659	A BB	22511.	216.694	UG/L	8.46
22	97	421	14:02	2	0.736	A BB	511802.	29.675	UG/L	1.16
23	117	433	14:26	2	0.757	A VB	485821.	33.819	UG/L	1.32
24	43	436	14:32	2	0.762	A BB	267121.	45.080	UG/L	1.76
25	83	449	14:58	2	0.785	A BB	329998.	32.968	UG/L	1.29
26	63	489	16:18	2	0.855	A BB	290687.	26.403	UG/L	1.03
27	75	497	16:34	2	0.869	A BB	353660.	36.847	UG/L	1.44
28	130	513	17:06	2	0.897	A BB	398816.	31.996	UG/L	1.25
29	129	533	17:46	2	0.932	A BB	178783.	41.901	UG/L	1.64
30	97	536	17:52	2	0.937	A BB	119000.	33.182	UG/L	1.30
31	78	528	17:36	2	0.923	A BB	804066.	26.735	UG/L	1.04
32	75	535	17:50	2	0.935	A BB	138067.	25.031	UG/L	0.98
33	63	567	18:54	2	0.991	A BB	51610.	28.975	UG/L	1.13
34	173	614	20:28	2	1.073	A BB	63507.	50.975	UG/L	1.99
35	43	626	20:52	3	0.905	A BB	74465.	37.288	UG/L	1.46
36	43	673	22:26	3	0.973	A BB	52910.	35.230	UG/L	1.38
37	164	684	22:48	3	0.988	A BB	345736.	32.327	UG/L	1.26
38	83	684	22:48	3	0.988	A BB	103863.	34.488	UG/L	1.35
39	92	722	24:04	3	1.043	A BB	563845.	28.042	UG/L	1.09
40	112	757	25:14	3	1.094	A BB	641156.	30.781	UG/L	1.20
41	106	818	27:16	3	1.182	A BB	368347.	31.426	UG/L	1.23
42	106	951	31:42	3	1.374	A BB	833826.	51.486	UG/L	2.01
43	106	983	32:46	3	1.421	A BB	991680.	67.292	UG/L	2.63
44	104	943	31:26	3	1.363	A BB	365302.	19.802	UG/L	0.77

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	7.86	10.00	2.021	2.571	0.79
5	17:26	1.00	0.917	1.00	9.37	10.00	2.194	2.343	0.94
6	23:52	1.00	1.038	1.00	9.91	10.00	2.327	2.349	0.99
7	1:38	0.96	0.181	0.88	21.49	30.00	3.337	4.658	0.72
8	2:36	0.99	0.285	0.91	29.00	30.00	3.119	3.227	0.97
9	3:22	0.99	0.361	0.94	23.11	30.00	3.480	4.518	0.77
10	4:22	1.00	0.462	0.96	22.42	30.00	2.211	2.958	0.75

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:30	1.01	0.681	0.97	24.87	25.00	2.458	2.470	0.99
12	7:06	1.00	0.757	0.95	426.01	525.00	0.104	0.128	0.81
13	7:06	1.00	0.757	0.96	390.02	525.00	0.022	0.030	0.74
14	8:06	1.00	0.833	0.99	4.38	17.50	0.484	1.935	0.25
15	7:48	1.00	0.826	0.96	423.43	525.00	0.111	0.138	0.81
16	9:22	1.00	0.955	0.99	23.70	25.00	3.176	3.350	0.95
17	10:40	1.00	1.090	0.99	20.20	25.00	6.397	7.915	0.81
18	11:24	1.00	1.170	0.99	23.29	25.00	2.977	3.195	0.93
19	12:02	1.00	1.229	0.99	22.62	25.00	5.969	6.598	0.90
20	12:44	1.00	1.312	0.98	21.09	25.00	2.115	2.506	0.84
21	12:36	1.00	0.664	0.99	216.69	175.00	0.009	0.007	1.24
22	14:02	1.00	0.731	1.01	29.68	25.00	1.403	1.182	1.19
23	14:26	1.00	0.752	1.01	33.82	25.00	1.332	0.985	1.35
24	14:34	1.00	0.764	1.00	45.08	52.50	0.349	0.406	0.86
25	15:00	1.00	0.780	1.01	32.97	25.00	0.905	0.686	1.32
26	16:20	1.00	0.854	1.00	26.40	25.00	0.797	0.755	1.06
27	16:34	1.00	0.868	1.00	36.85	30.00	0.808	0.658	1.23
28	17:06	1.00	0.898	1.00	32.00	25.00	1.094	0.855	1.28
29	17:48	1.00	0.930	1.00	41.90	25.00	0.490	0.293	1.68
30	17:54	1.00	0.937	1.00	33.18	25.00	0.326	0.246	1.33
31	17:36	1.00	0.924	1.00	26.73	25.00	2.205	2.062	1.07
32	17:52	1.00	0.937	1.00	25.03	20.00	0.473	0.378	1.25
33	18:56	1.00	0.995	1.00	28.98	25.00	0.142	0.122	1.16
34	20:30	1.00	1.076	1.00	50.97	25.00	0.174	0.085	2.04
35	20:56	1.00	0.907	1.00	37.29	35.00	0.260	0.244	1.07
36	22:28	1.00	0.974	1.00	35.23	35.00	0.185	0.184	1.01
37	22:48	1.00	0.990	1.00	32.33	25.00	1.692	1.309	1.29
38	22:48	1.00	0.988	1.00	34.49	25.00	0.508	0.368	1.38
39	24:04	1.00	1.046	1.00	28.04	25.00	2.759	2.460	1.12
40	25:14	1.00	1.097	1.00	30.78	25.00	3.138	2.549	1.23
41	27:16	1.00	1.186	1.00	31.43	25.00	1.803	1.434	1.26
42	31:42	1.00	1.378	1.00	51.49	50.00	2.040	1.981	1.03
43	32:44	1.00	1.425	1.00	67.29	62.70	1.935	1.803	1.07
44	31:24	1.00	1.367	1.00	19.80	17.50	2.554	2.257	1.13

RIC DATA: IC50605 #1 SCANS 1 TO 1100
06/05/89 13:49:00 CALI: IC50605 #3
SAMPLE: CLP,0605,,IC50605,L,W,,V,IC-200,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



BROMOFLUOROBENZENE

Tuning Report
06/05/89 7:34:00 + 12:06
Instrument: INCOS1
#349 to #377 summed - #380
Case Number:

Data: 0605BFB1 # 363
Cali: CALI0419 # 3
Analyst: DTK
Laboratory:

Base m/z: 95
RIC: 281600.
Acct. No.: TFA302
Contract:

m/z	Intensity	% RA	Ion Abundance Criteria Min %	Max %	Mass	Actual	Status
50	12096.	21.5	15.0	40.0	95	21.5	PASS
75	26720.	47.6	30.0	60.0	95	47.6	PASS
95	56192.	100.0	100.0	---	---	100.0	PASS
96	3788.	6.7	5.0	9.0	95	6.7	PASS
173	409.	0.7	---	2.0	174	0.9	PASS
174	43648.	77.7	50.0	---	95	77.7	PASS
175	3472.	6.2	5.0	9.0	174	8.0	PASS
176	41920.	74.6	95.0	101.0	174	96.0	PASS
177	3032.	5.4	5.0	9.0	176	7.2	PASS

Mass List Data: 0605BFB1 # 363 Base m/z: 95
06/05/89 7:34:00 + 12:06 Cali: CALI0419 # 3 RIC: 281600.
Sample: 50NG BFB INCOS-50 QC/MS/DS USEPA-REGION_V
Conds.: 150' TO 220'@ 15'/MIN
#349 to #377 summed - #380

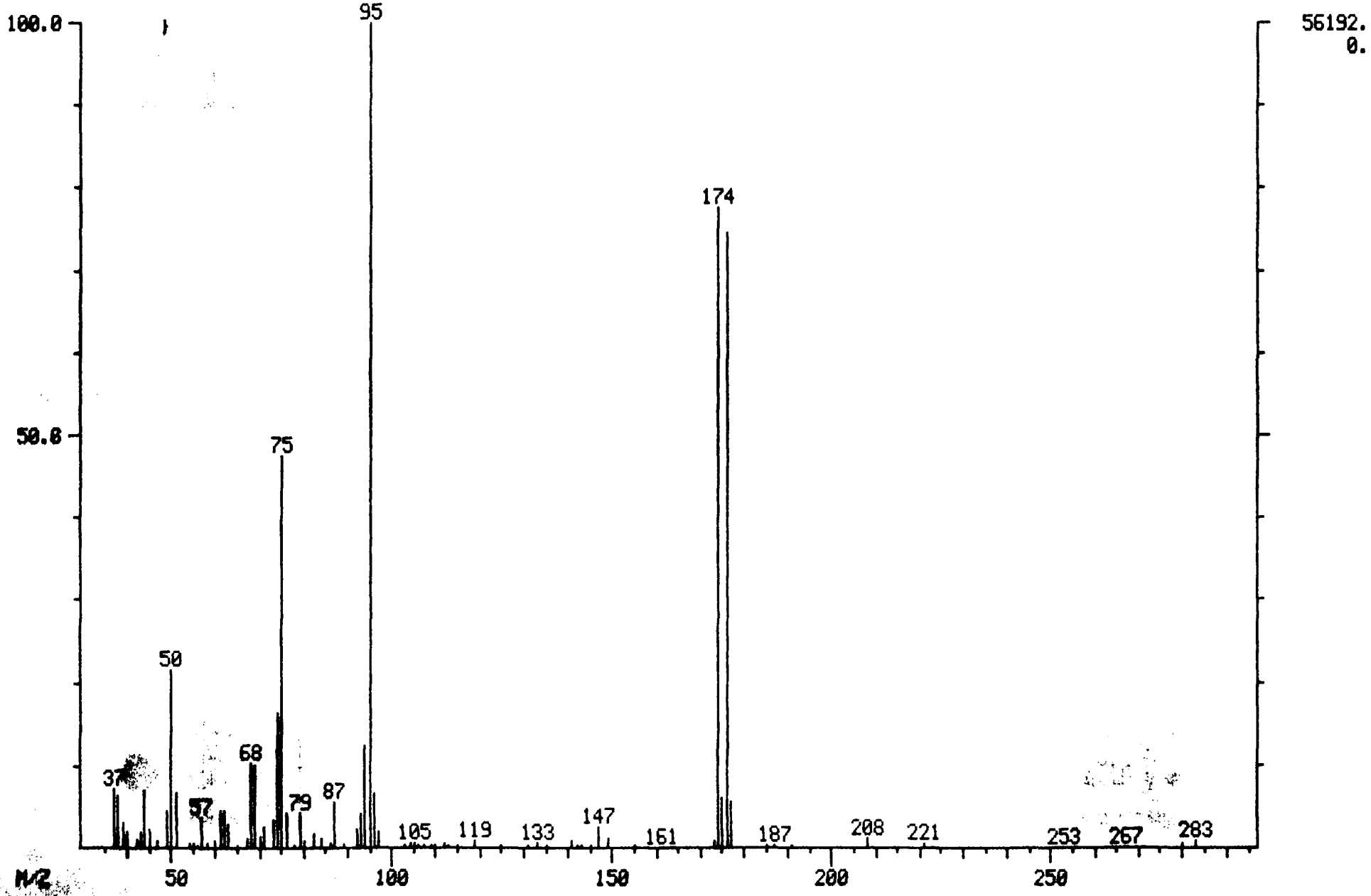
34 0.00 0. Minima Min Inten: 28.
291 Maxima # 0

Mass		% RA	Inten.	Mass		% RA	Inten.
37?		7.20	4044.	97	S	2.05	1154.
38?	S	6.39	3588.	103		0.41	233.
39?	S	2.98	1674.	104		0.45	251.
40?	S	1.91	1076.	105	S	0.55	307.
41?	S	0.09	49.	106		0.20	110.
42?	S	1.13	637.	107		0.16	89.
43?	S	1.94	1090.	109		0.41	228.
44?	S	6.98	3920.	110		0.22	125.
45?	S	2.17	1222.	112		0.59	330.
46?		0.09	53.	113		0.40	227.
47?		0.86	485.	114		0.07	39.
48?		0.06	36.	115		0.40	227.
49?		4.34	2436.	119		0.72	406.
50?	S	21.53	12096.	125		0.41	230.
51?	S	6.71	3768.	128		0.06	35.
52?		0.12	66.	131		0.15	86.
54?		0.59	333.	132		0.06	31.
55?	S	0.63	355.	133	S	0.44	245.
56?	S	0.39	220.	135		0.33	183.
57?	S	3.72	2092.	137		0.09	50.
58?	S	0.47	266.	140		0.07	37.
60?		0.91	510.	141	S	0.71	398.
61?	S	4.53	2548.	142		0.15	87.
62?		4.38	2464.	143		0.32	180.
63?		2.68	1504.	145		0.15	82.
65?		0.23	128.	147	S	2.39	1344.
66?		0.09	49.	149	S	1.08	609.
67?	S	1.21	681.	152		0.09	48.
68?	S	10.25	5760.	155		0.27	153.
69	S	10.05	5648.	161		0.06	32.
70	S	1.26	709.	165		0.06	31.
71	S	2.50	1402.	169		0.05	30.
73	S	3.35	1882.	172		0.11	63.
74	S	16.20	9104.	173		0.73	409.
75	S	47.55	26720.	174	S	77.68	43648.
76		4.11	2308.	175		6.18	3472.
78		0.31	176.	176		74.60	41920.
79		4.24	2384.	177		5.40	3032.
80		0.80	447.	185		0.19	105.
82	S	1.64	923.	187		0.33	187.
84	S	1.11	626.	191		0.31	177.
86		0.60	338.	193		0.10	56.
87		5.45	3060.	197		0.14	78.
88	S	0.05	29.	205		0.06	36.
89		0.49	277.	208		0.97	544.
92		2.08	1166.	221		0.59	329.
93		4.06	2284.	222		0.07	40.
94		12.36	6944.	267		0.08	46.
95	S	100.00	56192.	280		0.63	354.
96	S	6.74	3788.	283		0.93	525.

MASS SPECTRUM
06/05/89 7:34:00 + 12:06
SAMPLE: 50NG BFB INCOS-50 GC/MS/DS USEPA-REGION_V
CONDS.: 150' TO 220'@ 15'/MIN
TEMP: 219 DEG. C
#349 TO #377 SUMMED - #380

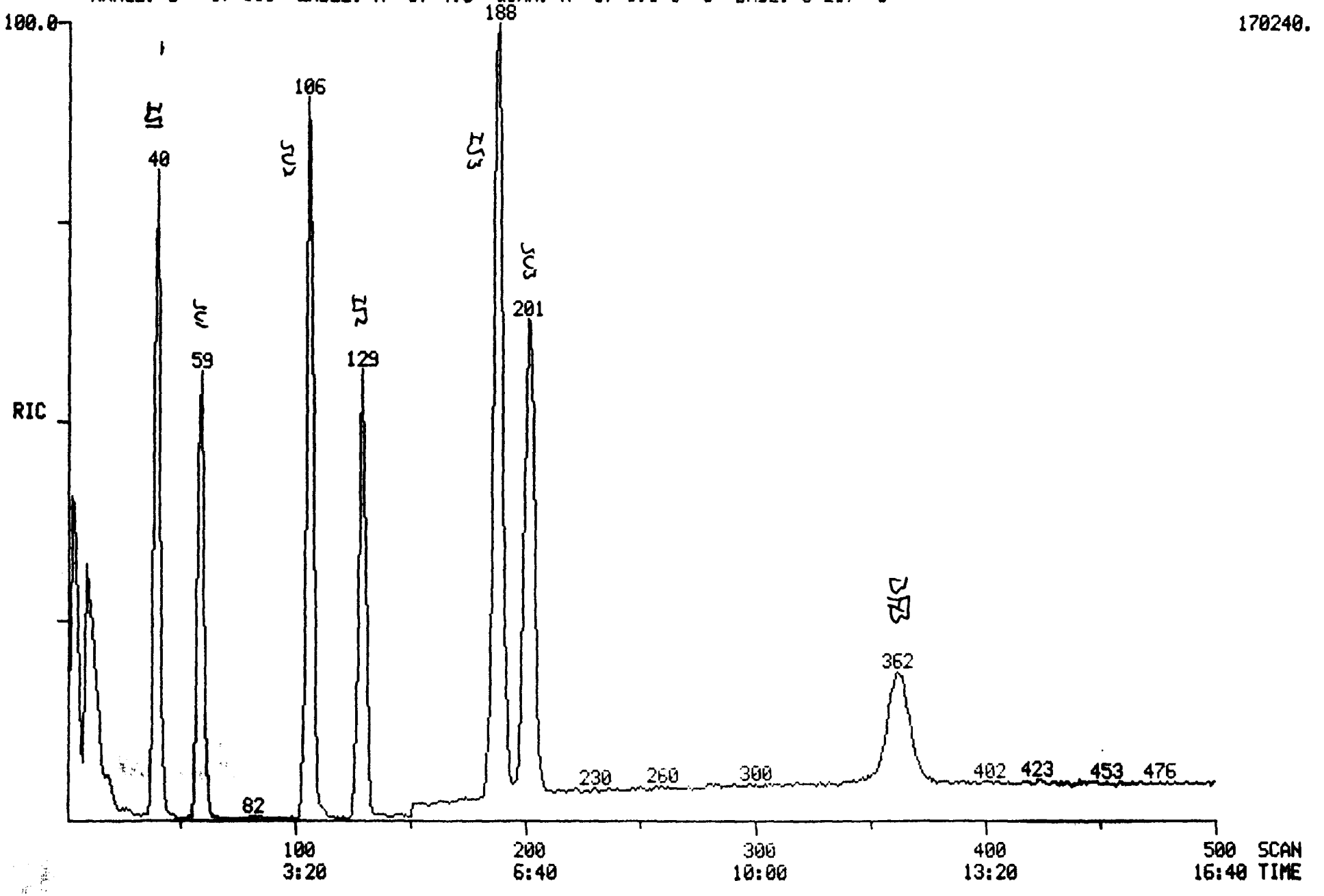
DATA: 0605BFB1 #363
CALI: CALI0419 #3

BASE M/Z: 95
RIC: 281600.



RIC
06/05/89 7:34:00
SAMPLE: 50NG BFB INCOS-50 GC/MS/DS USEPA-REGION_V
CONDS.: 150' TO 220'@ 15'/MIN
RANGE: G 1, 500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 0605BFB1 #349 SCANS 1 TO 500
CALI: CALI0419 #3



BROMOFLUOROBENZENE

Tuning Report
06/12/89 11:12:00 + 12:06
Instrument: INCOS1
#352 to #375 summed - #378
Case Number:

Data: 0612BFB2 # 363
Cali: CALI0419 # 3
Analyst: DTK
Laboratory:

Base m/z: 95
RIC: 210432.
Acct. No.: TFA302
Contract:

m/z	Intensity	% RA	Ion Abundance Criteria Min %	Max %	Mass	Actual	Status
50	11232.	24.5	15.0	40.0	95	24.5	PASS
75	22912.	50.0	30.0	60.0	95	50.0	PASS
95	45824.	100.0	100.0	---	---	100.0	PASS
96	3736.	8.2	5.0	9.0	95	8.2	PASS
173	16.	0.0	---	2.0	174	0.1	PASS
174	25376.	55.4	50.0	---	95	55.4	PASS
175	1526.	3.3	5.0	9.0	174	6.0	PASS
176	24672.	53.8	95.0	101.0	174	97.2	PASS
177	1630.	3.6	5.0	9.0	176	6.6	PASS

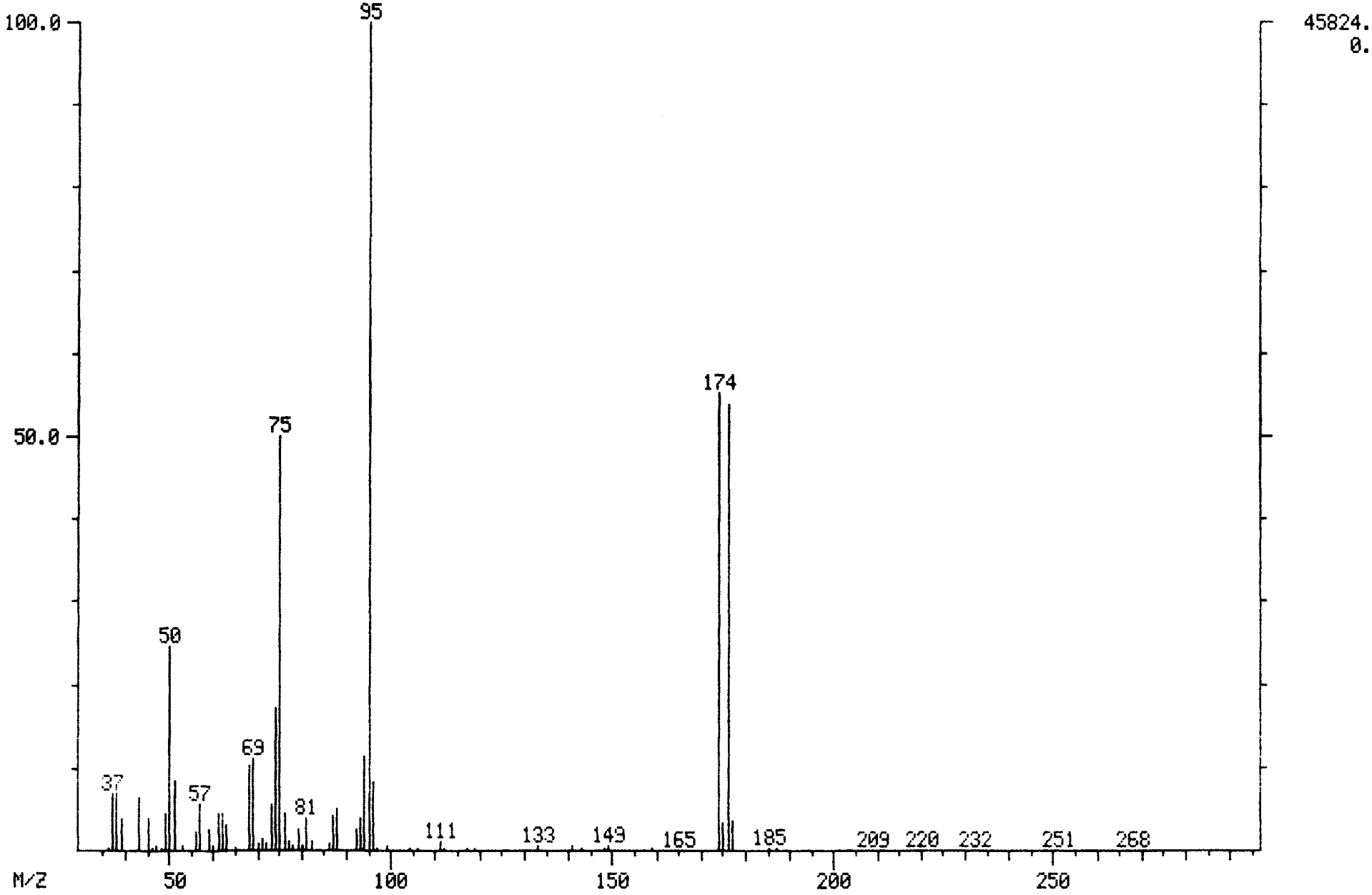
Mass List Data: 0612BFB2 # 363 Base m/z: 95
06/12/89 11:12:00 + 12:06 Cali: CALI0419 # 3 RIC: 210432.
Sample: 50NG BFB INCOS-50 GC/MS/DS USEPA-REGION_V
Conds.: 150' TO 220'@ 15'/MIN
#352 to #375 summed - #378

35		0.00	0.	Minima	Min Inten:		0.
295				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
35?		0.07	30.	104		0.23	105.
36?	S	0.23	104.	106		0.35	161.
37?	S	6.97	3196.	107		0.03	16.
38?		6.81	3120.	111		1.04	475.
39?	S	3.90	1788.	112		0.23	104.
43?	S	6.34	2904.	113		0.08	36.
45?	S	3.95	1808.	116		0.03	15.
46?		0.16	73.	117		0.40	184.
47?		0.60	273.	118		0.04	17.
48?		0.26	119.	119		0.27	125.
49?		4.33	1986.	121		0.09	41.
50?		24.51	11232.	124		0.07	32.
51?		8.21	3764.	127		0.04	18.
52?		0.11	49.	128		0.03	15.
53?		0.44	200.	129		0.03	16.
56?	S	2.18	1000.	131		0.07	34.
57?	S	5.64	2584.	133		0.65	297.
59?		2.40	1100.	135		0.04	18.
60?		0.42	192.	139		0.07	34.
61?	S	4.50	2064.	140		0.04	18.
62?		4.55	2084.	141		0.43	198.
63?		3.10	1422.	143		0.30	136.
65?		0.41	189.	144		0.03	16.
68?	S	10.14	4648.	148		0.16	72.
69	S	11.16	5112.	149		0.67	308.
70	S	0.81	372.	155		0.09	42.
71	S	1.43	656.	158		0.03	16.
72		0.76	347.	159		0.29	135.
73	S	5.66	2592.	163		0.11	51.
74	S	17.20	7880.	165		0.13	60.
75	S	50.00	22912.	166		0.04	17.
76		4.36	1996.	167		0.07	30.
77		1.17	536.	173		0.03	16.
78		0.44	202.	174	S	55.38	25376.
79	S	2.56	1172.	175		3.33	1526.
80		0.66	302.	176		53.84	24672.
81	S	3.89	1784.	177		3.56	1630.
82	S	1.10	504.	179		0.03	15.
84	S	0.05	24.	181		0.11	49.
86		0.80	367.	185		0.26	120.
87	S	4.06	1860.	187		0.20	93.
88	S	4.99	2288.	209		0.03	16.
92		2.39	1096.	212		0.03	16.
93		3.90	1786.	218		0.03	15.
94		11.35	5200.	220		0.04	18.
95	S	100.00	45824.	232		0.04	18.
96	S	8.15	3736.	249		0.03	16.
97	S	0.17	80.	251		0.10	45.
99		0.51	235.	268		0.08	35.
103		0.07	31.	295		0.07	32.

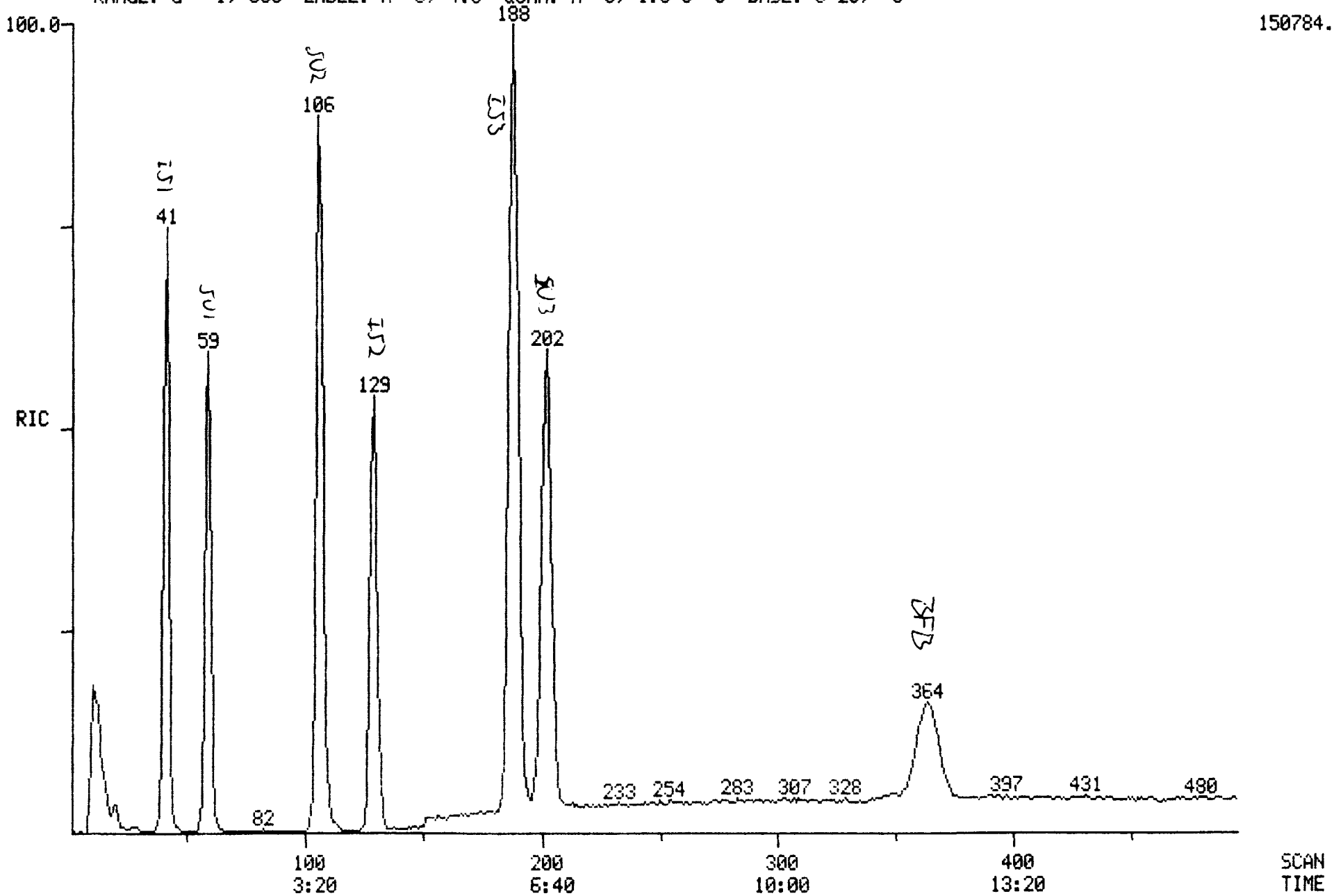
MASS SPECTRUM
06/12/89 11:12:00 + 12:06
SAMPLE: 50NG BFB INCOS-50 GC/MS/DS USEPA-REGION_V
CONDS.: 150' TO 220'@ 15'/MIN
TEMP: 219 DEG. C
#352 TO #375 SUMMED - #378

DATA: 0612BFB2 #363
CALI: CALI0419 #3

BASE M/Z: 95
RIC: 210432.



RIC DATA: 0612BFB2 #352 SCANS 1 TO 495
06/12/89 11:12:00 CALI: CALI0419 #3
SAMPLE: 50NG BFB INCOS-50 GC/MS/DS USEPA-REGION_V
CONDS.: 150' TO 220'@ 15'/MIN
RANGE: G 1, 500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



BROMOFLUOROBENZENE

Tuning Report
06/13/89 7:54:00 + 12:06
Instrument: INCOS1
#352 to #375 summed - #377
Case Number:

Data: 0613BFB1 # 363
Cali: CALI0419 # 3
Analyst: DTK
Laboratory:

Base m/z: 95
RIC: 248320.
Acct. No.: TFA302
Contract:

m/z	Intensity	% RA	Ion Abundance Criteria Min %	Max %	Mass	Actual	Status
50	12448.	24.7	15.0	40.0	95	24.7	PASS
75	25152.	49.8	30.0	60.0	95	49.8	PASS
95	50496.	100.0	100.0	---	---	100.0	PASS
96	4032.	8.0	5.0	9.0	95	8.0	PASS
173	0.	0.0	---	2.0	174	0.0	PASS
174	33856.	67.0	50.0	---	95	67.0	PASS
175	2244.	4.4	5.0	9.0	174	6.6	PASS
176	33280.	65.9	95.0	101.0	174	98.3	PASS
177	2384.	4.7	5.0	9.0	176	7.2	PASS

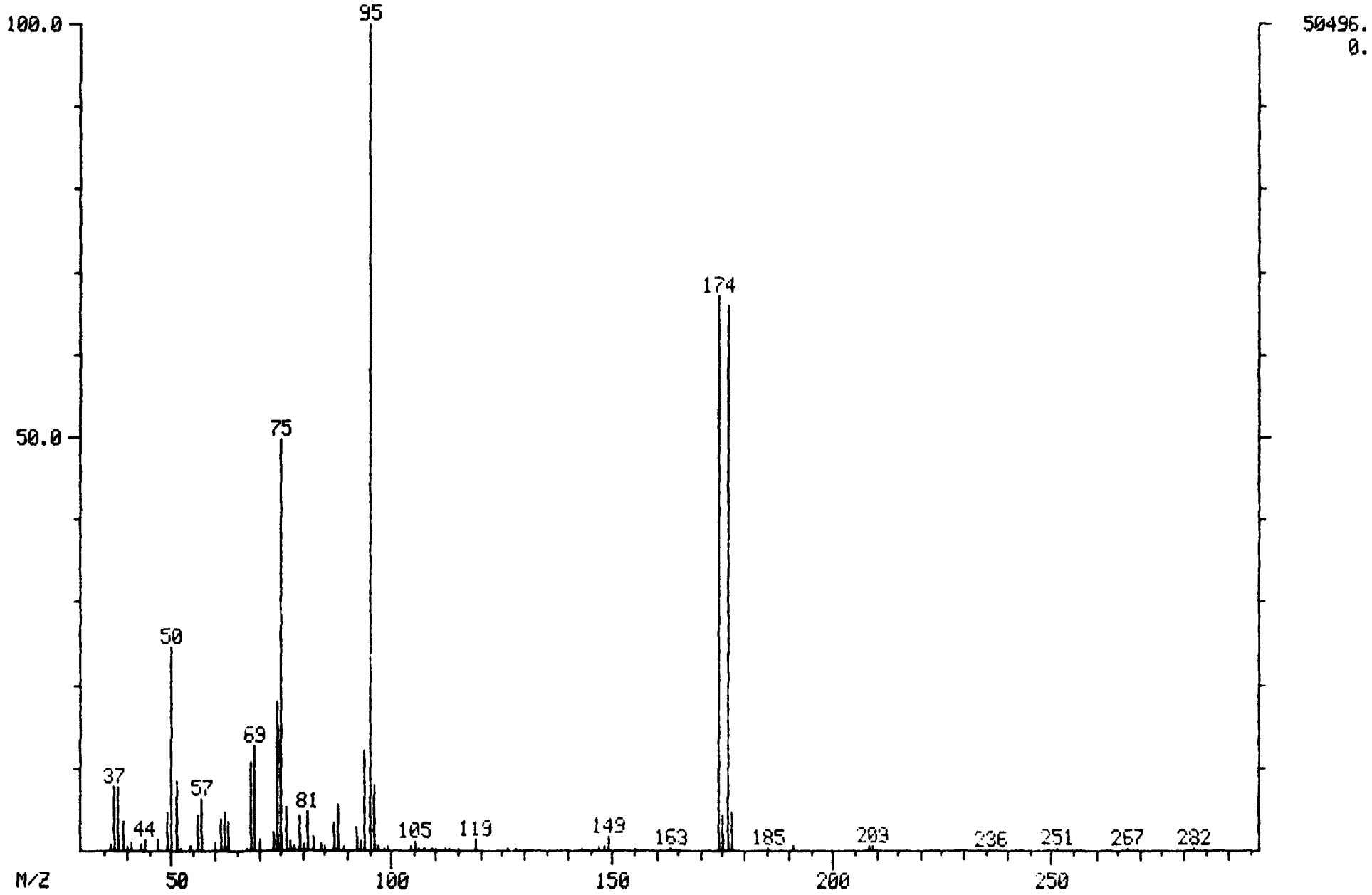
Mass List Data: 0613BFB1 # 363 Base m/z: 95
06/13/89 7:54:00 + 12:06 Cali: CALI0419 # 3 RIC: 248320.
Sample: 50NG BFB INCOS-50 GC/MS/DS USEPA-REGION_V
Conds.: 150' TO 220'@ 15'/MIN
#352 to #375 summed - #377

35		0.00	0.	Minima	Min	Inten:	20.
290				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
36?	S	0.89	448.	106		0.15	78.
37?		7.87	3972.	107		0.17	84.
38?		7.65	3864.	109		0.31	156.
39?	S	3.68	1856.	110		0.18	90.
40?	S	0.67	336.	112		0.41	205.
41?	S	1.20	608.	113		0.25	128.
43?	S	0.95	480.	115		0.36	181.
44?	S	1.46	736.	118		0.12	60.
47?		1.39	704.	119		1.26	637.
49?		4.59	2316.	121		0.04	21.
50?	S	24.65	12448.	123		0.12	60.
51?		8.56	4320.	124		0.06	31.
52?		0.15	74.	125		0.10	52.
54?		0.55	279.	126		0.15	74.
56?	S	4.36	2200.	127		0.10	51.
57?	S	6.23	3144.	128		0.21	106.
60?		1.21	610.	129		0.04	20.
61?	S	3.79	1912.	130		0.11	55.
62?		4.70	2372.	143		0.30	149.
63?		3.52	1778.	147	S	0.63	320.
66?		0.11	56.	148	S	0.59	300.
67?	S	0.32	162.	149	S	1.54	780.
68?	S	10.66	5384.	150		0.13	68.
69	S	12.77	6448.	151		0.06	32.
70	S	1.35	684.	152		0.08	38.
73	S	2.09	1056.	153		0.10	48.
74	S	18.03	9104.	155		0.39	198.
75	S	49.81	25152.	163		0.36	180.
76		5.30	2676.	165		0.07	35.
77	S	1.19	601.	169		0.04	20.
78		0.61	307.	174	S	67.05	33856.
79		4.10	2072.	175		4.44	2244.
80		0.85	431.	176	S	65.91	33280.
81	S	4.82	2436.	177	S	4.72	2384.
82	S	1.60	810.	181		0.08	38.
84	S	0.83	420.	183		0.11	55.
85	S	0.51	256.	185		0.20	100.
87	S	3.42	1728.	191	S	0.58	292.
88	S	5.43	2744.	192		0.08	40.
89		0.61	307.	208	S	0.55	276.
92		2.81	1420.	209		0.60	301.
93	S	1.15	582.	249		0.04	21.
94		12.04	6080.	251		0.39	195.
95	S	100.00	50496.	252		0.04	22.
96	S	7.98	4032.	253		0.05	25.
97	S	0.62	314.	265		0.07	35.
98		0.39	196.	267		0.29	144.
99		0.59	299.	281	S	0.10	52.
104		0.49	249.	282		0.15	76.
105	S	1.24	626.	290		0.05	26.

MASS SPECTRUM
06/13/89 7:54:00 + 12:06
SAMPLE: 50NG BFB INCOS-50 GC/MS/DS USEPA-REGION_V
CONDS.: 150' TO 220'@ 15'/MIN
TEMP: 219 DEG. C
#352 TO #375 SUMMED - #377

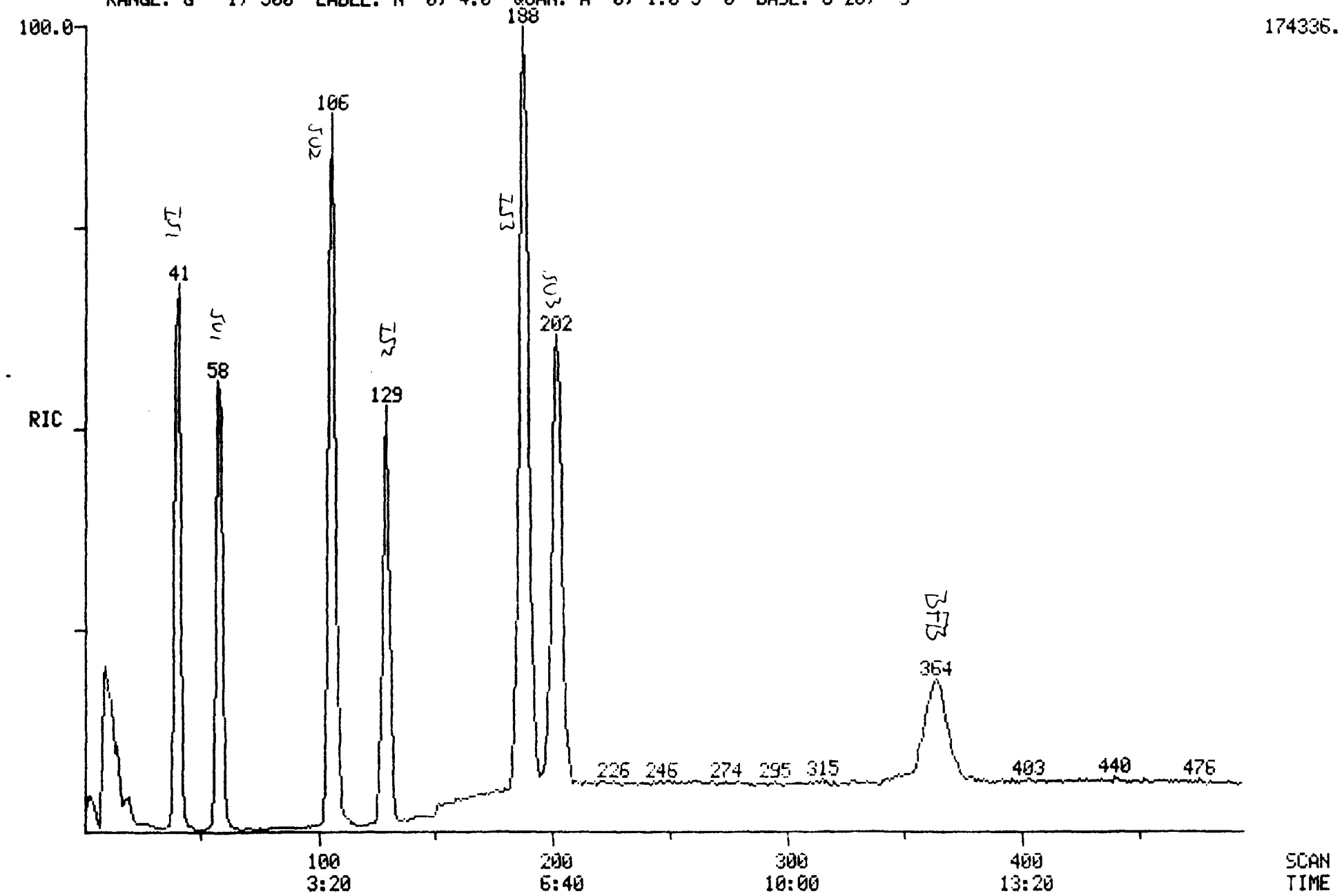
DATA: 0613BFB1 #363
CALI: CALI0419 #3

BASE M/Z: 95
RIC: 248320.



RIC
06/13/89 7:54:00
SAMPLE: 50NG BFB INCOS-50 GC/MS/DS USEPA-REGION_V
CONDS.: 150' TO 220'@ 15'/MIN
RANGE: G 1, 500 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 0613BFB1 #352 SCANS 1 TO 494
CALI: CALI0419 #3



Quantitation Report File: CC0612

Data: CC0612.TI
06/12/89 12:27:00
Sample: CLP,6196,,CC0612,L,W,,V,CAL,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of the 5 closest data points in .RL

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C043	ACRYLONITRILE	
15	C045	1,1-DICHLOROETHENE	
16	C050	1,1-DICHLOROETHANE	
17	C053	1,2-DICHLOROETHENE (TOTAL)	
18	C060	CHLOROFORM	
19	C065	1,2-DICHLOROETHANE	
20	C110	2-BUTANONE	
21	C115	1,1,1-TRICHLOROETHANE	
22	C120	CARBON TETRACHLORIDE	
23	C125	VINYL ACETATE	
24	C130	BROMODICHLOROMETHANE	
25	C140	1,2-DICHLOROPROPANE	
26	C143	CIS-1,3-DICHLOROPROPENE	
27	C150	TRICHLOROETHENE	
28	C155	DIBROMOCHLOROMETHANE	
29	C160	1,1,2-TRICHLOROETHANE	
30	C165	BENZENE	
31	C172	TRANS-1,3-DICHLOROPROPENE	
32	C175	2-CHLOROETHYLVINYLETHER	
33	C180	BROMOFORM	
34	C205	4-METHYL-2-PENTANONE	
35	C220	TETRACHLOROETHENE	
36	C225	1,1,2,2-TETRACHLOROETHANE	
37	C230	TOLUENE	
38	C235	CHLOROBENZENE	
39	C240	ETHYL BENZENE	
40	C245	STYRENE	
41	C260	M-XYLENE	
42	C270	O-&/OR P-XYLENE	
43	C040	CARBON DISULFIDE	
44	C210	2-HEXANONE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	297	9:54	1	1.000	A BB	17275.	10.000	UG/L	0.58
2	77	573	19:06	2	1.000	A BB	80051.	10.000	UG/L	0.58
3	55	693	23:06	3	1.000	A BB	45949.	10.000	UG/L	0.58
4	65	380	12:40	1	1.279	A BB	40860.	11.821	UG/L	0.69
5	84	525	17:30	2	0.916	A BB	190706.	10.743	UG/L	0.63
6	98	717	23:54	3	1.035	A BB	113492.	10.667	UG/L	0.62
7	50	48	1:36	1	0.162	A BB	120359.	23.194	UG/L	1.35
8	94	79	2:38	1	0.266	A BB	112570.	24.351	UG/L	1.42
9	62	102	3:24	1	0.343	A BB	123593.	23.361	UG/L	1.36
10	64	132	4:24	1	0.444	A BB	81628.	23.550	UG/L	1.37
11	84	198	6:36	1	0.667	A BB	72077.	18.199	UG/L	1.06
12	43	215	7:10	1	0.724	A BB	53100.	294.479	UG/L	17.16
13	56	217	7:14	1	0.731	A BB	8171.	215.530	UG/L	12.56
14	53	237	7:54	1	0.798	A BB	55133.	285.930	UG/L	16.66
15	96	282	9:24	1	0.949	A BB	83847.	18.194	UG/L	1.06
16	63	321	10:42	1	1.081	A BB	189392.	18.767	UG/L	1.09
17	96	343	11:26	1	1.155	A BB	82837.	18.362	UG/L	1.07
18	83	361	12:02	1	1.215	A BB	175179.	18.617	UG/L	1.08
19	62	383	12:46	1	1.290	A BB	66338.	19.086	UG/L	1.11
20	72	378	12:36	2	0.660	A BB	17679.	240.839	UG/L	14.03
21	97	422	14:04	2	0.736	A BB	165883.	17.133	UG/L	1.00
22	117	434	14:28	2	0.757	A VB	144668.	16.505	UG/L	0.96
23	43	437	14:34	2	0.763	A BB	94215.	27.056	UG/L	1.58
24	83	450	15:00	2	0.785	A BB	99113.	15.518	UG/L	0.90
25	63	490	16:20	2	0.855	A BB	93757.	15.948	UG/L	0.93
26	75	498	16:36	2	0.869	A BB	106202.	18.286	UG/L	1.07
27	130	514	17:08	2	0.897	A BB	126346.	16.424	UG/L	0.96
28	129	534	17:48	2	0.932	A BB	47158.	14.198	UG/L	0.83
29	97	537	17:54	2	0.937	A BB	33988.	14.380	UG/L	0.84
30	78	529	17:38	2	0.923	A BB	268095.	16.948	UG/L	0.99
31	75	537	17:54	2	0.937	A BB	42283.	12.734	UG/L	0.74
32	63	568	18:56	2	0.991	A BB	16501.	15.161	UG/L	0.88
33	173	616	20:32	2	1.075	A BB	14793.	12.408	UG/L	0.72
34	43	674	22:28	3	0.973	A BB	19834.	21.331	UG/L	1.24
35	164	685	22:50	3	0.988	A BB	107808.	15.023	UG/L	0.88
36	83	684	22:48	3	0.987	A BB	27843.	13.661	UG/L	0.80
37	92	723	24:06	3	1.043	A BB	183767.	16.111	UG/L	0.94
38	112	758	25:16	3	1.094	A BB	197869.	15.115	UG/L	0.88
39	106	820	27:20	3	1.183	A BB	110727.	15.763	UG/L	0.92
40	104	946	31:32	3	1.365	A BB	141492.	11.993	UG/L	0.70
41	106	954	31:48	3	1.377	A BB	250435.	27.545	UG/L	1.61
42	106	985	32:50	3	1.421	A BB	309182.	35.922	UG/L	2.09
43	76	247	8:14	1	0.832	A BB	2328.	2.939	UG/L	0.17
44	43	628	20:56	3	0.906	A BB	28285.	22.351	UG/L	1.30

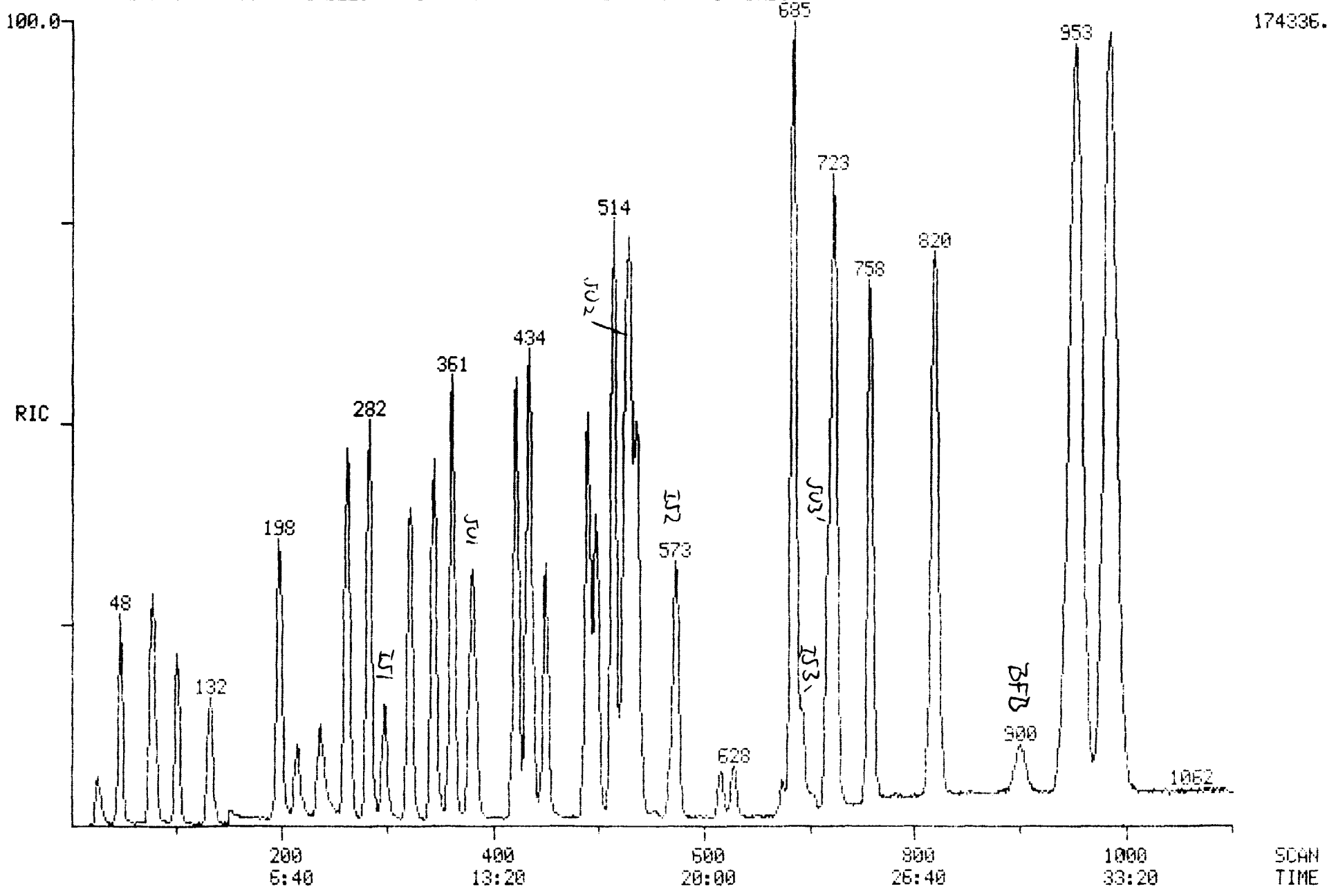
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	11.82	10.00	2.365	2.001	1.18
5	17:26	1.00	0.917	1.00	10.74	10.00	2.382	2.218	1.07
6	23:52	1.00	1.038	1.00	10.67	10.00	2.470	2.315	1.07
7	1:38	0.98	0.181	0.90	23.19	20.00	3.484	3.004	1.16
8	2:36	1.01	0.285	0.93	24.35	20.00	3.258	2.676	1.22
9	3:22	1.01	0.361	0.95	23.36	20.00	3.577	3.063	1.17
10	4:22	1.01	0.462	0.96	23.55	20.00	2.363	2.006	1.18

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:30	1.02	0.681	0.98	18.20	15.00	2.782	2.293	1.21
12	7:06	1.01	0.757	0.96	294.48	375.00	0.082	0.104	0.79
13	7:06	1.02	0.757	0.97	215.53	375.00	0.013	0.022	0.57
14	7:48	1.01	0.826	0.97	285.93	375.00	0.085	0.112	0.76
15	9:22	1.00	0.955	0.99	18.19	15.00	3.236	2.668	1.21
16	10:40	1.00	1.090	0.99	18.77	15.00	7.309	5.842	1.25
17	11:24	1.00	1.170	0.99	18.36	15.00	3.197	2.612	1.22
18	12:02	1.00	1.229	0.99	18.62	15.00	6.760	5.447	1.24
19	12:44	1.00	1.312	0.98	19.09	15.00	2.560	2.012	1.27
20	12:36	1.00	0.664	0.99	240.84	125.00	0.018	0.009	1.93
21	14:02	1.00	0.731	1.01	17.13	15.00	1.381	1.209	1.14
22	14:26	1.00	0.752	1.01	16.50	15.00	1.205	1.095	1.10
23	14:34	1.00	0.764	1.00	27.06	37.50	0.314	0.435	0.72
24	15:00	1.00	0.780	1.01	15.52	15.00	0.825	0.798	1.03
25	16:20	1.00	0.854	1.00	15.95	15.00	0.781	0.734	1.06
26	16:34	1.00	0.868	1.00	18.29	18.00	0.737	0.725	1.02
27	17:06	1.00	0.898	1.00	16.42	15.00	1.052	0.961	1.09
28	17:48	1.00	0.930	1.00	14.20	15.00	0.393	0.415	0.95
29	17:54	1.00	0.937	1.00	14.38	15.00	0.283	0.295	0.96
30	17:36	1.00	0.924	1.00	16.95	15.00	2.233	1.976	1.13
31	17:52	1.00	0.937	1.00	12.73	12.00	0.440	0.415	1.06
32	18:56	1.00	0.995	1.00	15.16	15.00	0.137	0.136	1.01
33	20:30	1.00	1.076	1.00	12.41	15.00	0.123	0.149	0.83
34	22:28	1.00	0.974	1.00	21.33	25.00	0.173	0.202	0.85
35	22:48	1.00	0.990	1.00	15.02	15.00	1.564	1.562	1.00
36	22:48	1.00	0.988	1.00	13.66	15.00	0.404	0.444	0.91
37	24:04	1.00	1.046	1.00	16.11	15.00	2.666	2.482	1.07
38	25:14	1.00	1.097	1.00	15.12	15.00	2.871	2.849	1.01
39	27:16	1.00	1.186	1.00	15.76	15.00	1.607	1.529	1.05
40	31:24	1.00	1.367	1.00	11.99	12.50	2.463	2.568	0.96
41	31:42	1.00	1.378	1.00	27.54	30.00	1.817	1.979	0.92
42	32:44	1.00	1.425	1.00	35.92	37.60	1.790	1.873	0.96
43	8:06	1.02	0.833	1.00	2.94	12.50	0.108	0.459	0.24
44	20:56	1.00	0.907	1.00	22.35	25.00	0.246	0.275	0.89

RIC
06/12/89 12:27:00
SAMPLE: CLP,6196,,CC0612,L,W,,V,CAL,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: CC0612 #1
CALI: CC0612 #3

SCANS 1 TO 1100



Quantitation Report File: IC30613

Data: IC30613.TI
06/13/89 10:28:00
Sample: CLP,6195,,CC0613,L,W,,V,CAL,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from average of the 5 closest data points in .RL

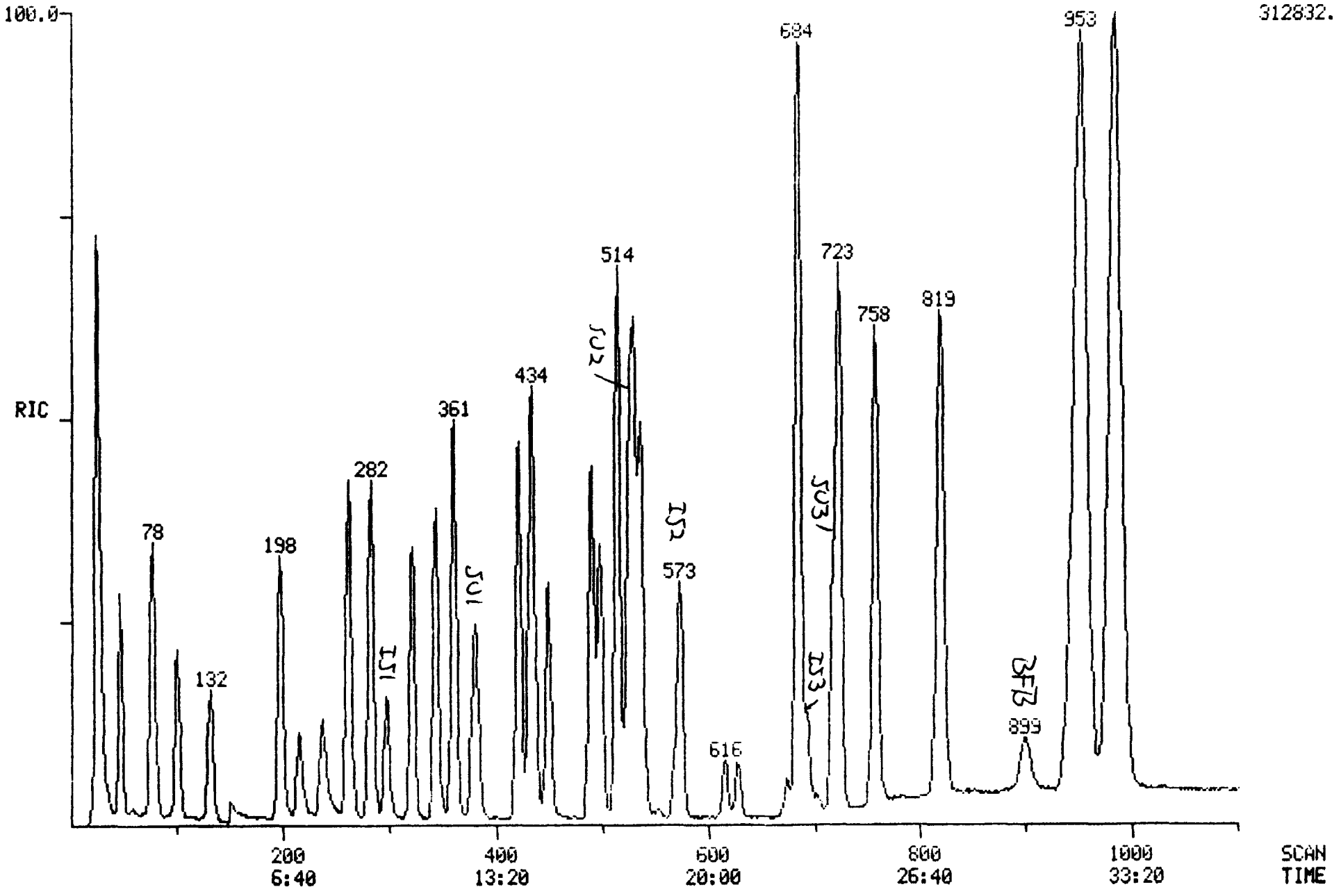
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C035	ACETONE	
13	C038	ACROLEIN	
14	C040	CARBON DISULFIDE	
15	C043	ACRYLONITRILE	
16	C045	1,1-DICHLOROETHENE	
17	C050	1,1-DICHLOROETHANE	
18	C053	1,2-DICHLOROETHENE (TOTAL)	
19	C060	CHLOROFORM	
20	C065	1,2-DICHLOROETHANE	
21	C110	2-BUTANONE	
22	C115	1,1,1-TRICHLOROETHANE	
23	C120	CARBON TETRACHLORIDE	
24	C125	VINYL ACETATE	
25	C130	BROMODICHLOROMETHANE	
26	C140	1,2-DICHLOROPROPANE	
27	C143	CIS-1,3-DICHLOROPROPENE	
28	C150	TRICHLOROETHENE	
29	C155	DIBROMOCHLOROMETHANE	
30	C160	1,1,2-TRICHLOROETHANE	
31	C165	BENZENE	
32	C172	TRANS-1,3-DICHLOROPROPENE	
33	C175	2-CHLOROETHYLVINYLETHER	
34	C180	BROMOFORM	
35	C205	4-METHYL-2-PENTANONE	
36	C220	TETRACHLOROETHENE	
37	C225	1,1,2,2-TETRACHLOROETHANE	
38	C230	TOLUENE	
39	C235	CHLOROBENZENE	
40	C240	ETHYL BENZENE	
41	C245	STYRENE	
42	C260	M-XYLENE	
43	C270	O-&/OR P-XYLENE	
44	C210	2-HEXANONE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	297	9:54	1	1.000	A BB	39619.	10.000	UG/L	0.68
2	77	573	19:06	2	1.000	A BV	144488.	10.000	UG/L	0.68
3	55	693	23:06	3	1.000	A BB	76430.	10.000	UG/L	0.68
4	65	379	12:38	1	1.276	A BB	68100.	8.590	UG/L	0.59
5	84	524	17:28	2	0.914	A VB	314202.	9.806	UG/L	0.67
6	98	717	23:54	3	1.035	A BB	192073.	10.853	UG/L	0.74
7	50	48	1:36	1	0.162	A BB	205510.	17.268	UG/L	1.18
8	94	78	2:36	1	0.263	A BB	217086.	20.476	UG/L	1.40
9	62	101	3:22	1	0.340	A BV	213903.	17.629	UG/L	1.20
10	64	132	4:24	1	0.444	A BB	148321.	18.658	UG/L	1.27
11	84	198	6:36	1	0.667	A BB	127777.	14.067	UG/L	0.96
12	43	215	7:10	1	0.724	A BB	117373.	283.820	UG/L	19.39
13	56	216	7:12	1	0.727	A BB	14479.	166.520	UG/L	11.37
14	76	245	8:10	1	0.825	A BB	3582.	1.972	UG/L	0.13
15	53	237	7:54	1	0.798	A BB	105440.	238.436	UG/L	16.29
16	96	282	9:24	1	0.949	A BB	142059.	13.441	UG/L	0.92
17	63	321	10:42	1	1.081	A BB	282860.	12.222	UG/L	0.83
18	96	343	11:26	1	1.155	A BB	136119.	13.156	UG/L	0.90
19	83	361	12:02	1	1.215	A BB	285574.	13.233	UG/L	0.90
20	62	383	12:46	1	1.290	A BB	102545.	12.864	UG/L	0.88
21	72	379	12:38	2	0.661	A BB	17150.	129.440	UG/L	8.84
22	97	422	14:04	2	0.736	A BB	260455.	14.904	UG/L	1.02
23	117	433	14:26	2	0.756	A VB	251285.	15.883	UG/L	1.08
24	43	437	14:34	2	0.763	A BB	180724.	28.754	UG/L	1.96
25	83	449	14:58	2	0.784	A BB	167441.	14.524	UG/L	0.99
26	63	490	16:20	2	0.855	A BB	146390.	13.796	UG/L	0.94
27	75	498	16:36	2	0.869	A BB	178798.	17.057	UG/L	1.16
28	130	514	17:08	2	0.897	A BB	227791.	16.405	UG/L	1.12
29	129	534	17:48	2	0.932	A BB	96694	16.129	UG/L	1.10
30	97	537	17:54	2	0.937	A BB	67032.	15.712	UG/L	1.07
31	78	529	17:38	2	0.923	A BB	415856.	14.565	UG/L	0.99
32	75	536	17:52	2	0.935	A BB	70546.	11.771	UG/L	0.80
33	63	568	18:56	2	0.991	A BB	26554.	13.517	UG/L	0.92
34	173	615	20:30	2	1.073	A BB	37685.	17.512	UG/L	1.20
35	43	674	22:28	3	0.973	A BB	38502.	24.894	UG/L	1.70
36	164	684	22:48	3	0.987	A BB	218880.	18.336	UG/L	1.25
37	83	684	22.48	3	0.987	A BB	48330.	14.256	UG/L	0.97
38	92	723	24:06	3	1.043	A BB	299556.	15.788	UG/L	1.08
39	112	758	25:16	3	1.094	A BB	362172.	16.633	UG/L	1.14
40	106	819	27:18	3	1.182	A BB	194547.	16.651	UG/L	1.14
41	104	946	31:32	3	1.365	A BB	292653.	14.912	UG/L	1.02
42	106	954	31:48	3	1.377	A BB	487420.	32.229	UG/L	2.20
43	106	984	32.48	3	1.420	A BB	597952.	41.766	UG/L	2.85
44	43	620	20.56	3	0.906	A BB	53978.	25.643	UG/L	1.75

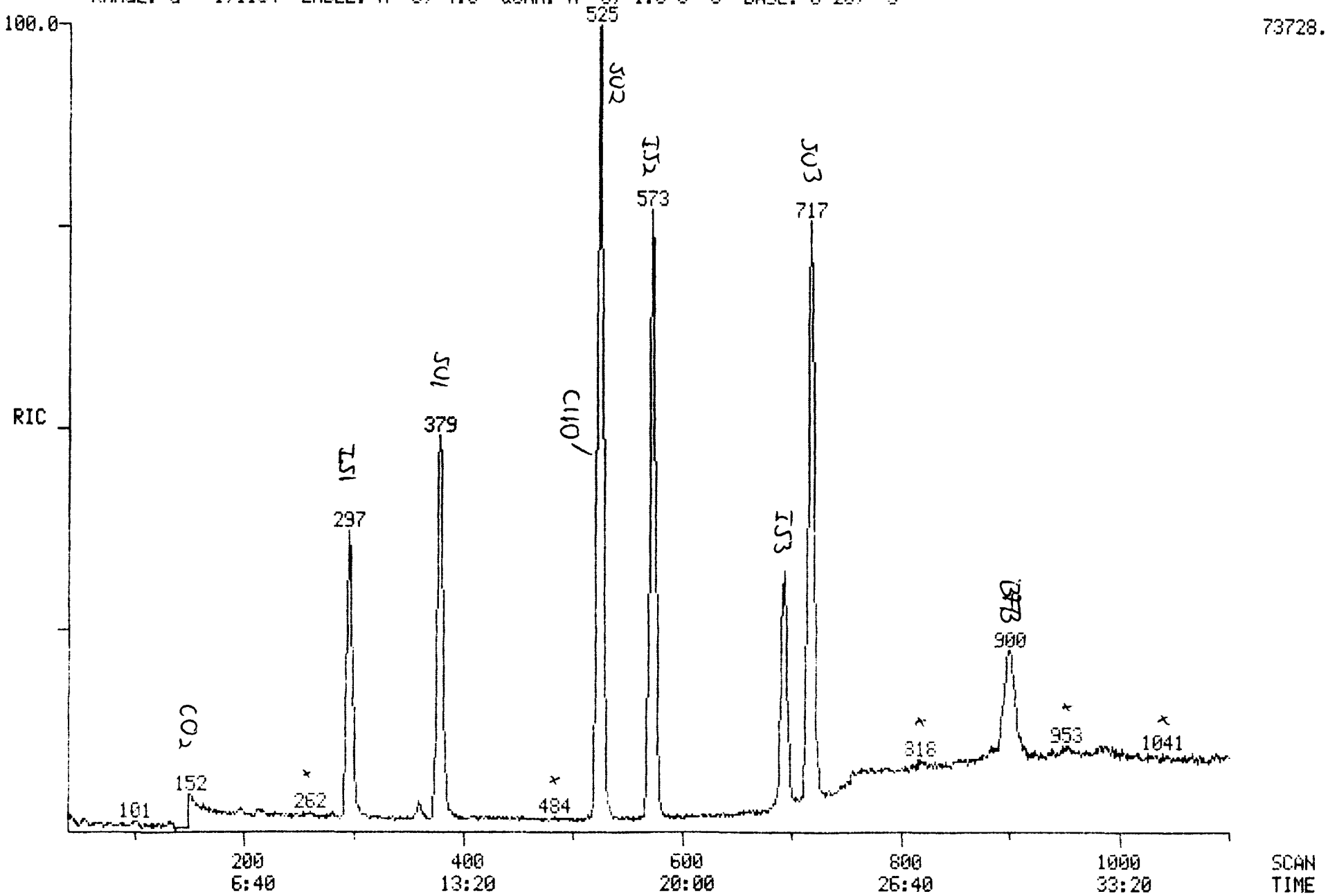
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	8.59	10.00	1.719	2.001	0.86
5	17:26	1.00	0.917	1.00	9.81	10.00	2.175	2.218	0.98
6	23:52	1.00	1.038	1.00	10.85	10.00	2.513	2.315	1.09
7	1:38	0.98	0.181	0.90	17.27	20.00	2.594	3.004	0.86
8	2:36	1.00	0.285	0.92	20.48	20.00	2.740	2.676	1.02
9	3:22	1.00	0.361	0.94	17.63	20.00	2.700	3.063	0.88
10	4:22	1.01	0.462	0.96	18.66	20.00	1.872	2.006	0.93

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:30	1.02	0.681	0.98	14.07	15.00	2.150	2.293	0.94
12	7:06	1.01	0.757	0.96	283.82	375.00	0.079	0.104	0.76
13	7:06	1.01	0.757	0.96	166.52	375.00	0.010	0.022	0.44
14	8:06	1.01	0.833	0.99	1.97	12.50	0.072	0.459	0.16
15	7:48	1.01	0.826	0.97	238.44	375.00	0.071	0.112	0.64
16	9:22	1.00	0.955	0.99	13.44	15.00	2.390	2.668	0.90
17	10:40	1.00	1.090	0.99	12.22	15.00	4.760	5.842	0.81
18	11:24	1.00	1.170	0.99	13.16	15.00	2.290	2.612	0.88
19	12:02	1.00	1.229	0.99	13.23	15.00	4.805	5.447	0.88
20	12:44	1.00	1.312	0.98	12.86	15.00	1.726	2.012	0.86
21	12:36	1.00	0.664	1.00	129.44	125.00	0.009	0.009	1.04
22	14:02	1.00	0.731	1.01	14.90	15.00	1.202	1.209	0.99
23	14:26	1.00	0.752	1.00	15.88	15.00	1.159	1.095	1.06
24	14:34	1.00	0.764	1.00	28.75	37.50	0.334	0.435	0.77
25	15:00	1.00	0.780	1.00	14.52	15.00	0.773	0.798	0.97
26	16:20	1.00	0.854	1.00	13.80	15.00	0.675	0.734	0.92
27	16:34	1.00	0.868	1.00	17.06	18.00	0.687	0.725	0.95
28	17:06	1.00	0.898	1.00	16.41	15.00	1.051	0.961	1.09
29	17:48	1.00	0.930	1.00	16.13	15.00	0.446	0.415	1.08
30	17:54	1.00	0.937	1.00	15.71	15.00	0.309	0.295	1.05
31	17.36	1.00	0.924	1.00	14.57	15.00	1.919	1.976	0.97
32	17:52	1.00	0.937	1.00	11.77	12.00	0.407	0.415	0.98
33	18.56	1.00	0.995	1.00	13.52	15.00	0.123	0.136	0.90
34	20:30	1.00	1.076	1.00	17.51	15.00	0.174	0.149	1.17
35	22:28	1.00	0.974	1.00	24.89	25.00	0.202	0.202	1.00
36	22:48	1.00	0.990	1.00	18.34	15.00	1.909	1.562	1.22
37	22:48	1.00	0.988	1.00	14.26	15.00	0.422	0.444	0.95
38	24:04	1.00	1.046	1.00	15.79	15.00	2.613	2.482	1.05
39	25:14	1.00	1.097	1.00	16.63	15.00	3.159	2.849	1.11
40	27:16	1.00	1.186	1.00	16.65	15.00	1.697	1.529	1.11
41	31:24	1.00	1.367	1.00	14.91	12.50	3.063	2.568	1.19
42	31:42	1.00	1.378	1.00	32.23	30.00	2.126	1.979	1.07
43	32:44	1.00	1.425	1.00	41.77	37.60	2.081	1.873	1.11
44	20:56	1.00	0.907	1.00	25.64	25.00	0.282	0.275	1.03

RIC DATA: IC30613 #1 SCANS 1 TO 1100
06/13/89 10:28:00 CALI: IC30613 #3
SAMPLE: CLP,6195,,CC0613,L,W,,V,CAL,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



RIC DATA: 0612BLK2 #1 SCANS 40 TO 1100
06/12/89 11:42:00 CALI: 0612BLK2 #3
SAMPLE: CLP,6196,,0612BLK2,L,W,,V,BLANK,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 0612BLK2

Data: 0612BLK2.TI
06/12/89 11:42:00
Sample: CLP,6196,,0612BLK2,L,W,,V,BLANK,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	CI10	2-BUTANONE	

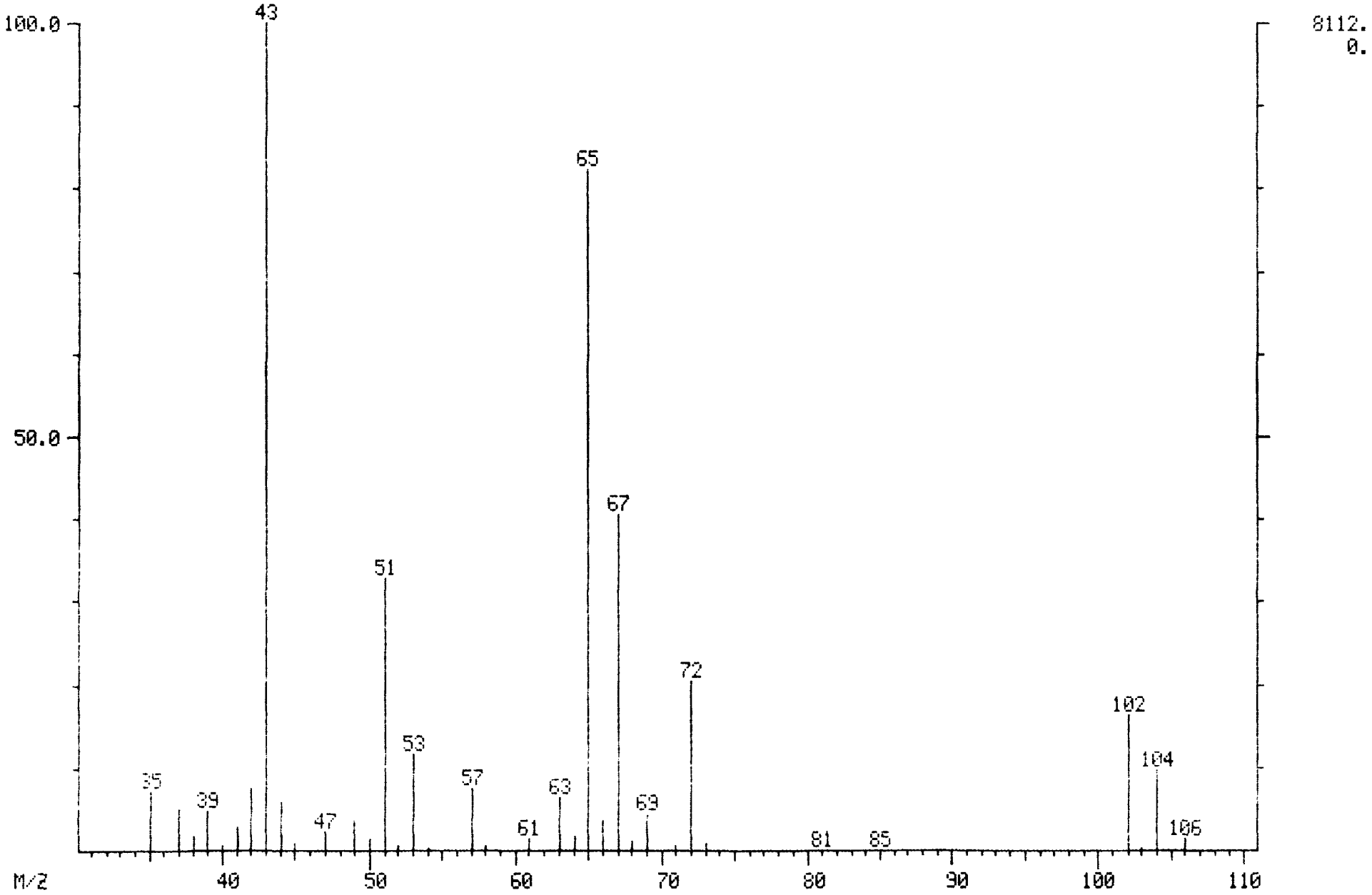
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	297	9:54	1	1.000	A BB	18412.	10.000	UG/L	7.73
2	77	573	19:06	2	1.000	A BB	84879.	10.000	UG/L	7.73
3	55	693	23:06	3	1.000	A BB	46937.	10.000	UG/L	7.73
4	65	379	12:38	1	1.276	A BB	42979.	9.869	UG/L	7.63
5	84	524	17:28	2	0.914	A BB	198216.	9.803	UG/L	7.58
6	98	717	23:54	3	1.035	A BB	112692.	9.721	UG/L	7.52
7	72	379	12:38	2	0.661	A BB	10486.	69.924	UG/L	54.07

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	9.87	10.00	2.334	2.365	0.99
5	17:26	1.00	0.917	1.00	9.80	10.00	2.335	2.382	0.98
6	23:52	1.00	1.038	1.00	9.72	10.00	2.401	2.470	0.97
7	12:36	1.00	0.664	1.00	69.92	125.00	0.010	0.018	0.56

MASS SPECTRUM
06/12/89 11:42:00 + 12:38
SAMPLE: CLP,6196,,0612BLK2,L,W,,V,BLANK,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 121 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 0612BLK2 #379
CALI: 0612BLK2 #3

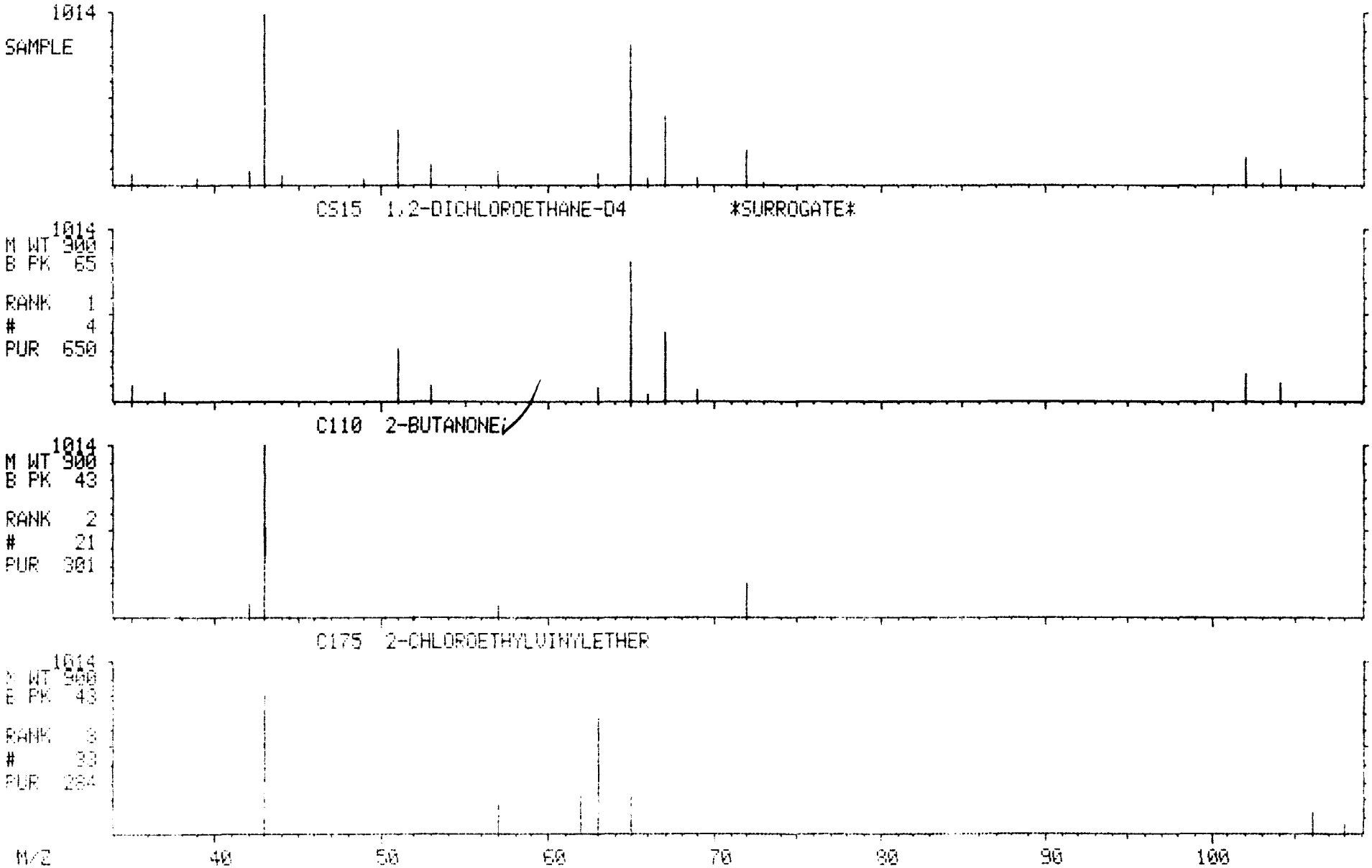
BASE M/Z: 43
RIC: 31488.



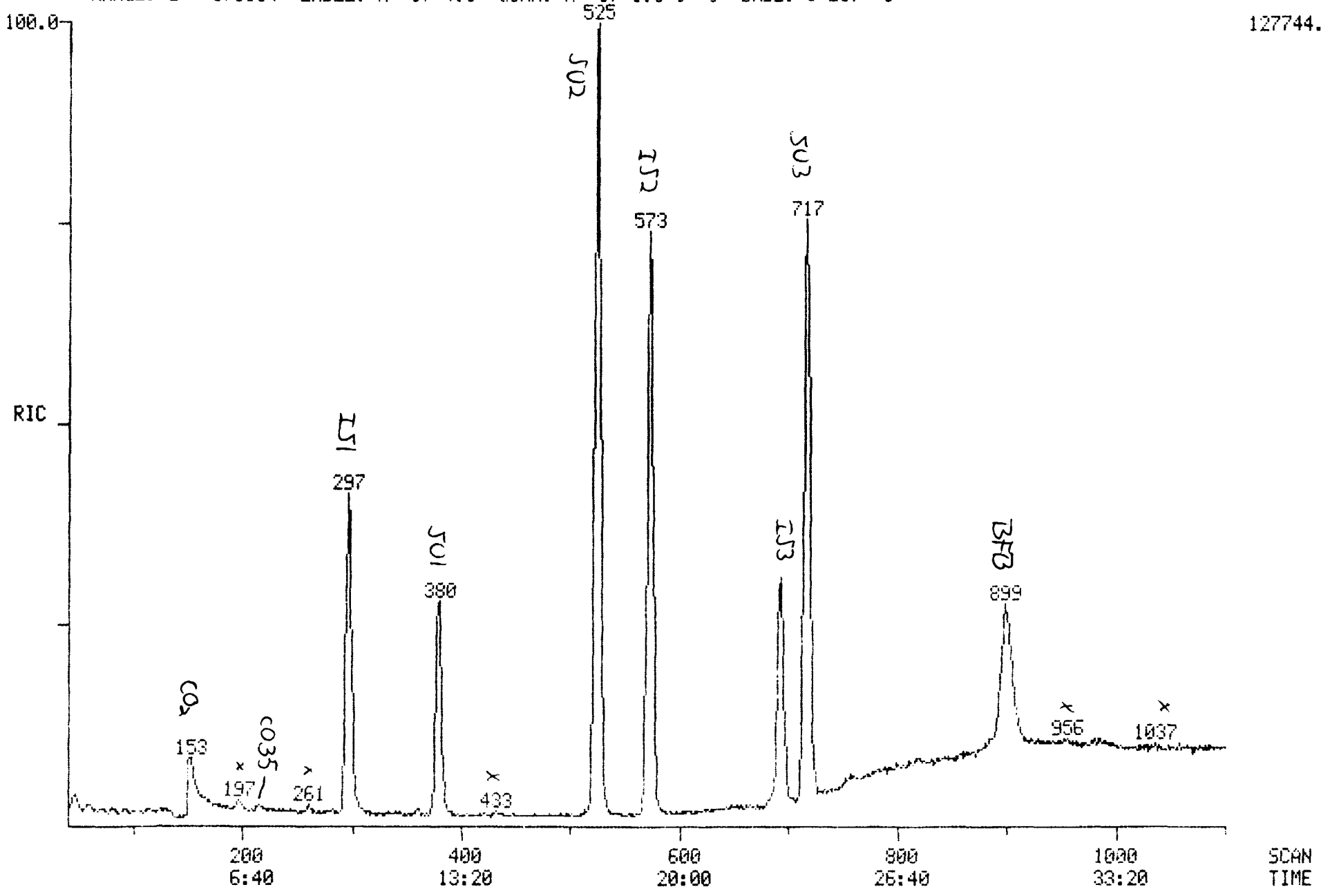
MID LIBRARY SEARCH (LIBRARYUP)
06/12/89 11:42:00 + 12:38
SAMPLE: CLP,6136,,0612BLK2,L,W,,V-BLANK,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 0612BLK2 # 379
CALI: 0612BLK2 # 3

BASE M/Z: 43
RIC: 29856.



RIC DATA: 0613BLK2 #216 SCANS 40 TO 1100
06/13/89 12:06:00 CALI: 0613BLK2 #3
SAMPLE: CLP,6195,,0613BLK2,L,W,,V,BLANK,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 0613BLK2

Data: 0613BLK2.TI
06/13/89 12:06:00
Sample: CLP,6195,,0613BLK2,L,W,,V,BLANK,
Conds: 45'(3MIN) TO 220'@ 8'/MIN
Formula Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C035	ACETONE	

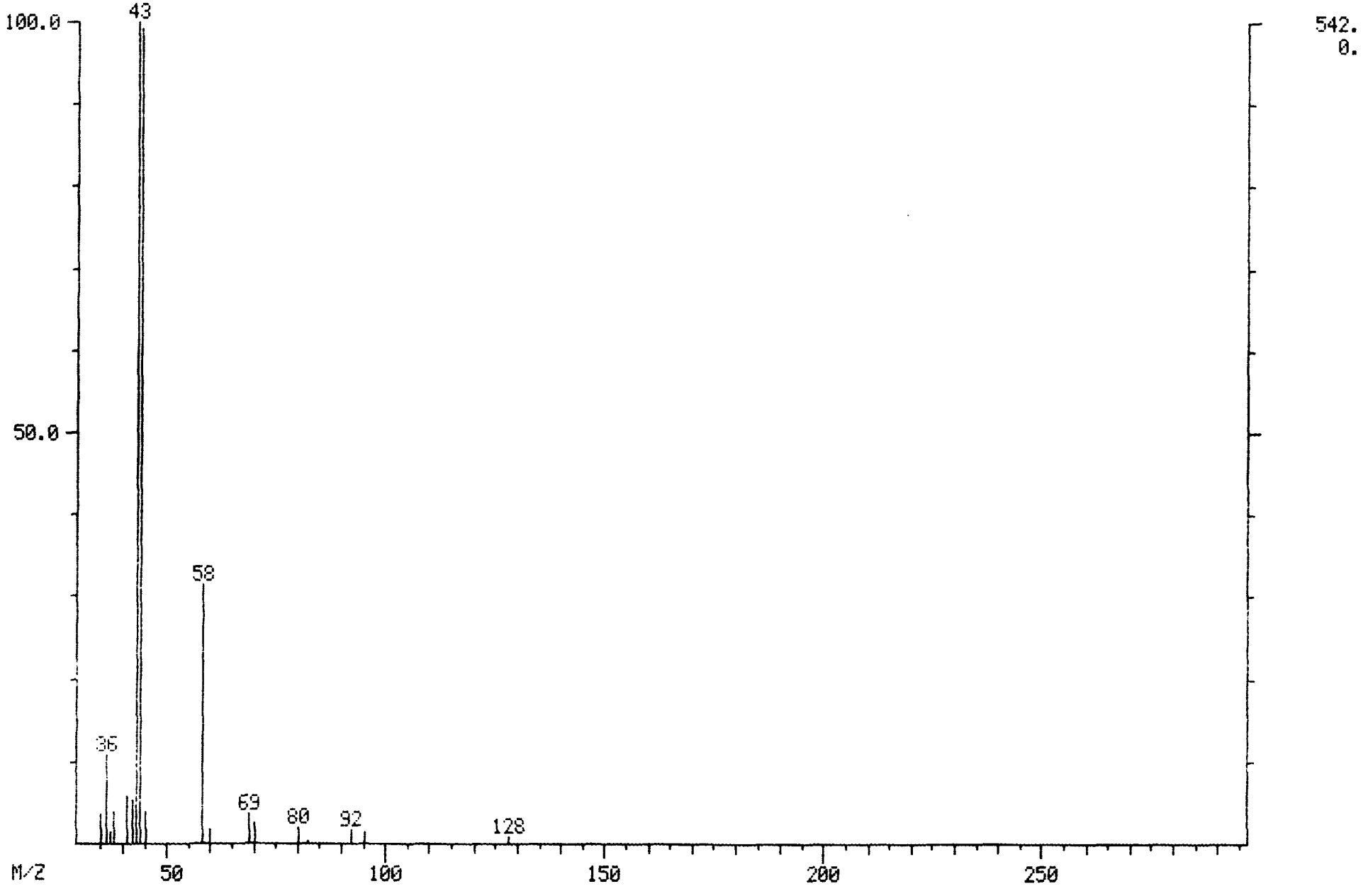
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	297	9.54	1	1.000	A BB	43090.	10.000 UG/L	13.80
2	77	573	19:06	2	1.000	A BV	150103.	10.000 UG/L	13.80
3	55	693	23.06	3	1.000	A BB	79810.	10.000 UG/L	13.80
4	65	380	12:40	1	1.279	A BB	70768.	9.555 UG/L	13.19
5	84	525	17:30	2	0.916	A BB	348128.	10.665 UG/L	14.72
6	98	717	23:54	3	1.035	A BB	211827.	10.561 UG/L	14.57
7	43	216	7:12	1	0.727	A BV	3978.	11.685 UG/L	16.12

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19.06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12.38	1.00	1.302	0.98	9.55	10.00	1.642	1.719	0.96
5	17.26	1.00	0.917	1.00	10.67	10.00	2.319	2.175	1.07
6	23:52	1.00	1.038	1.00	10.56	10.00	2.654	2.513	1.06
7	7.06	1.01	0.757	0.96	11.69	375.00	0.002	0.079	0.03

MASS SPECTRUM
06/13/89 12:06:00 + 7:12
SAMPLE: CLP,6195,,0613BLK2,L,W,,V,BLANK,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 78 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 0613BLK2 #216
CALI: 0613BLK2 #3

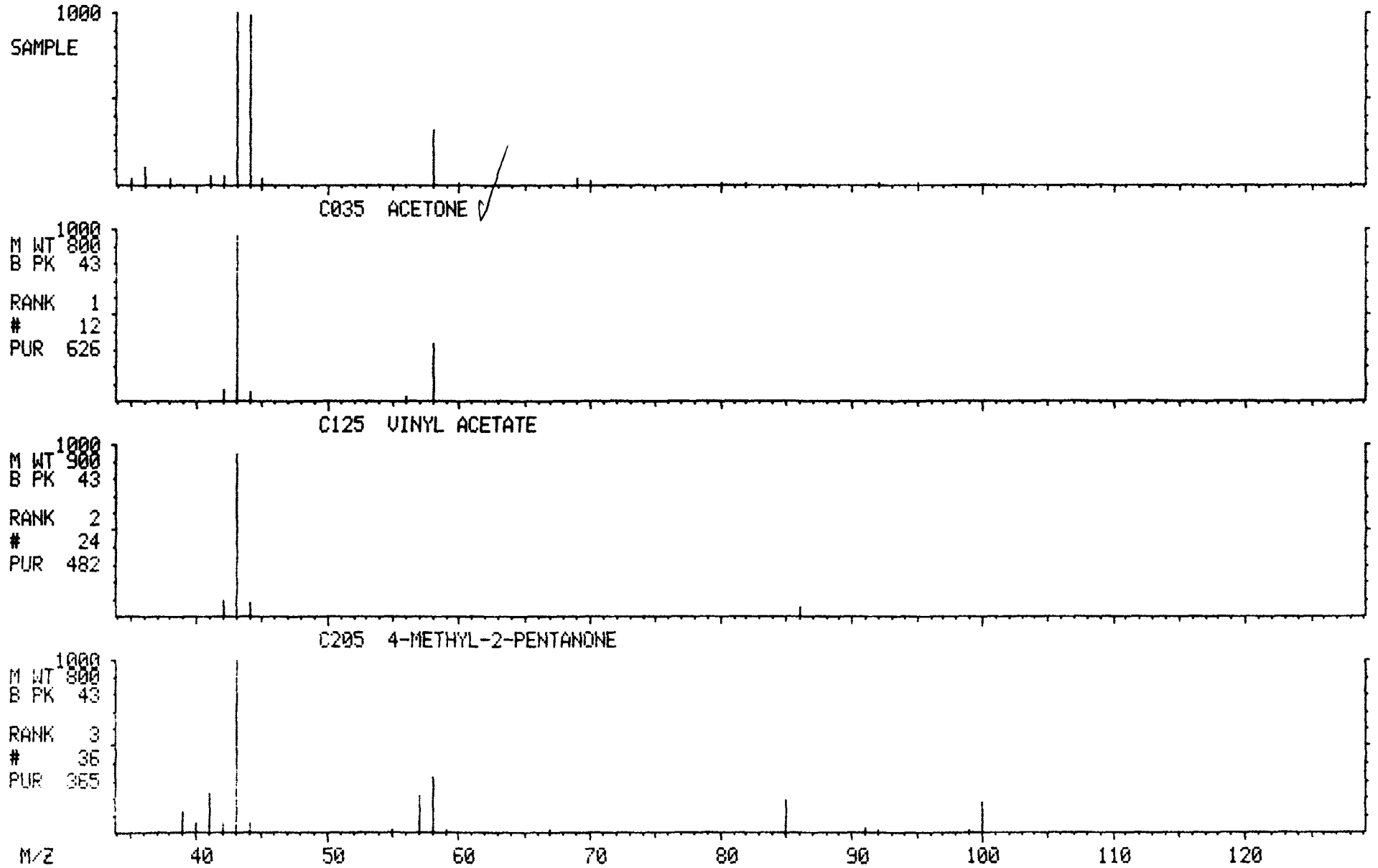
BASE M/Z: 43
RIC: 1520.



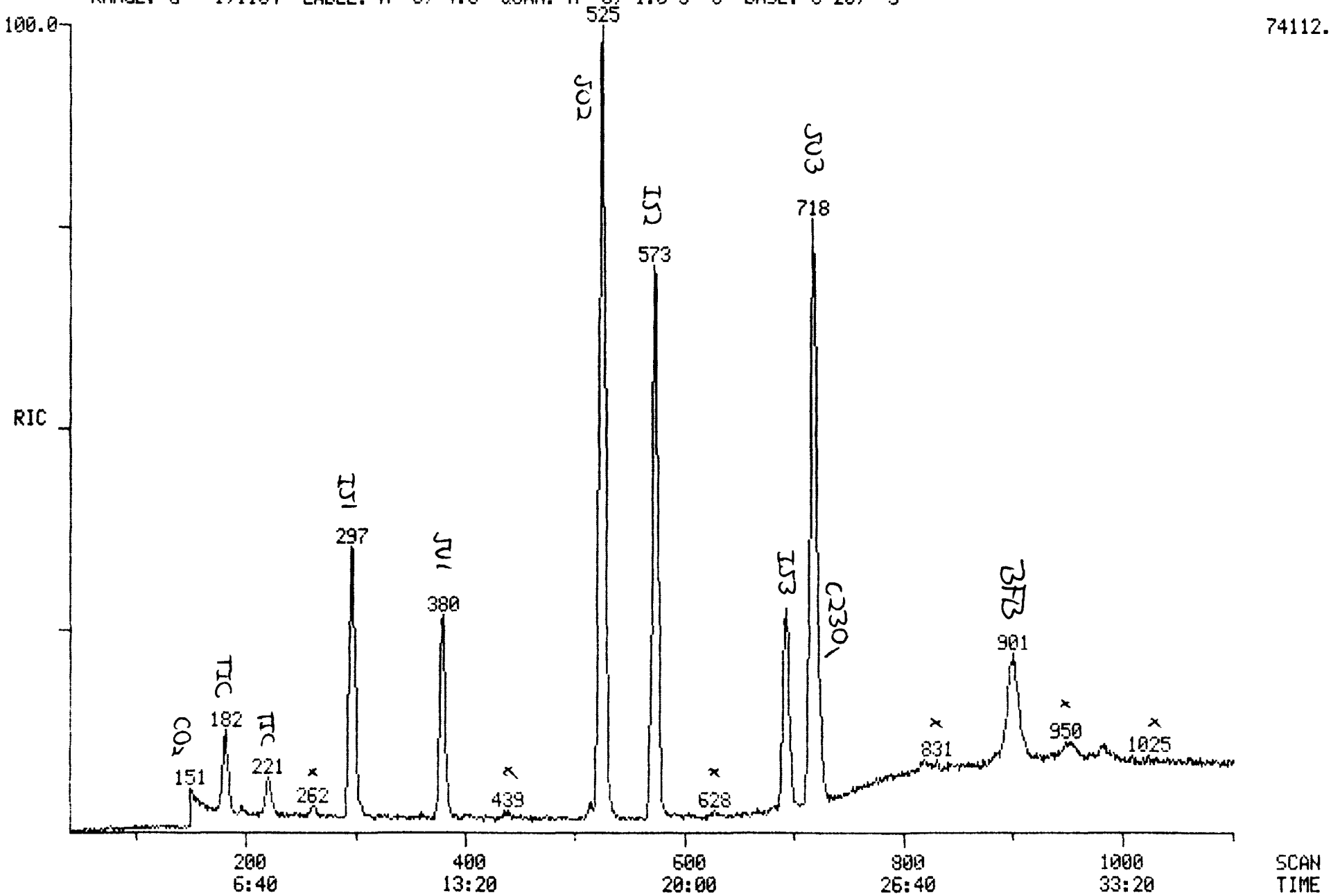
MID LIBRARY SEARCH (LIBRARYVP)
06/13/89 12:06:00 + 7:12
SAMPLE: CLP,6195,,0613BLK2,L,W,,V,BLANK,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 0613BLK2 # 216
CALI: 0613BLK2 # 3

BASE M/Z: 43
RIC: 1512.



RIC DATA: 6196R03 #1 SCANS 40 TO 1100
06/12/89 13:49:00 CALI: 6196R03 #3
SAMPLE: CLP,6196,,89FC11R03,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 6196R03

Data: 6196R03.TI
06/12/89 13:49:00
Sample: CLP,6196,,89FC11R03,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C230	TOLUENE	

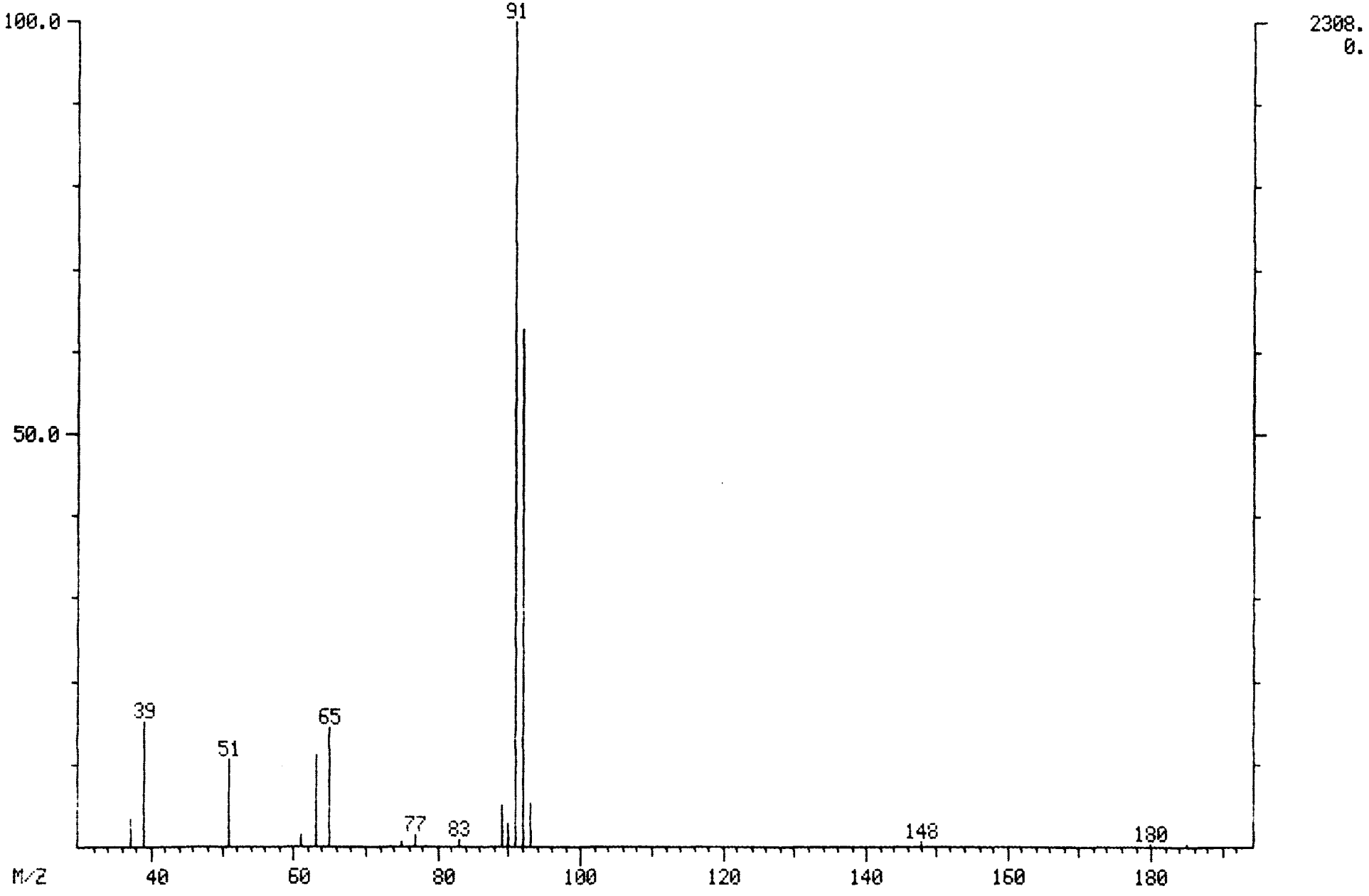
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	298	9:56	1	1.000	A BB	18410.	10.000 UG/L	16.33
2	77	573	19:06	2	1.000	A BB	77767.	10.000 UG/L	16.33
3	55	694	23:08	3	1.000	A BB	41812.	10.000 UG/L	16.33
4	65	380	12:40	1	1.275	A BB	38873.	8.927 UG/L	14.58
5	84	524	17:28	2	0.914	A BB	193968.	10.470 UG/L	17.10
6	98	718	23:56	3	1.035	A BB	114124.	11.051 UG/L	18.05
7	92	723	24:06	3	1.042	A BB	8812.	0.790 UG/L	1.29

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	8.93	10.00	2.112	2.365	0.89
5	17:26	1.00	0.917	1.00	10.47	10.00	2.494	2.382	1.05
6	23:52	1.00	1.038	1.00	11.05	10.00	2.729	2.470	1.11
7	24:04	1.00	1.046	1.00	0.79	15.00	0.141	2.666	0.05

MASS SPECTRUM
06/12/89 13:49:00 + 24:06
SAMPLE: CLP,6196,,89FC11R03,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 213 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 6196R03 #723
CALI: 6196R03 #3

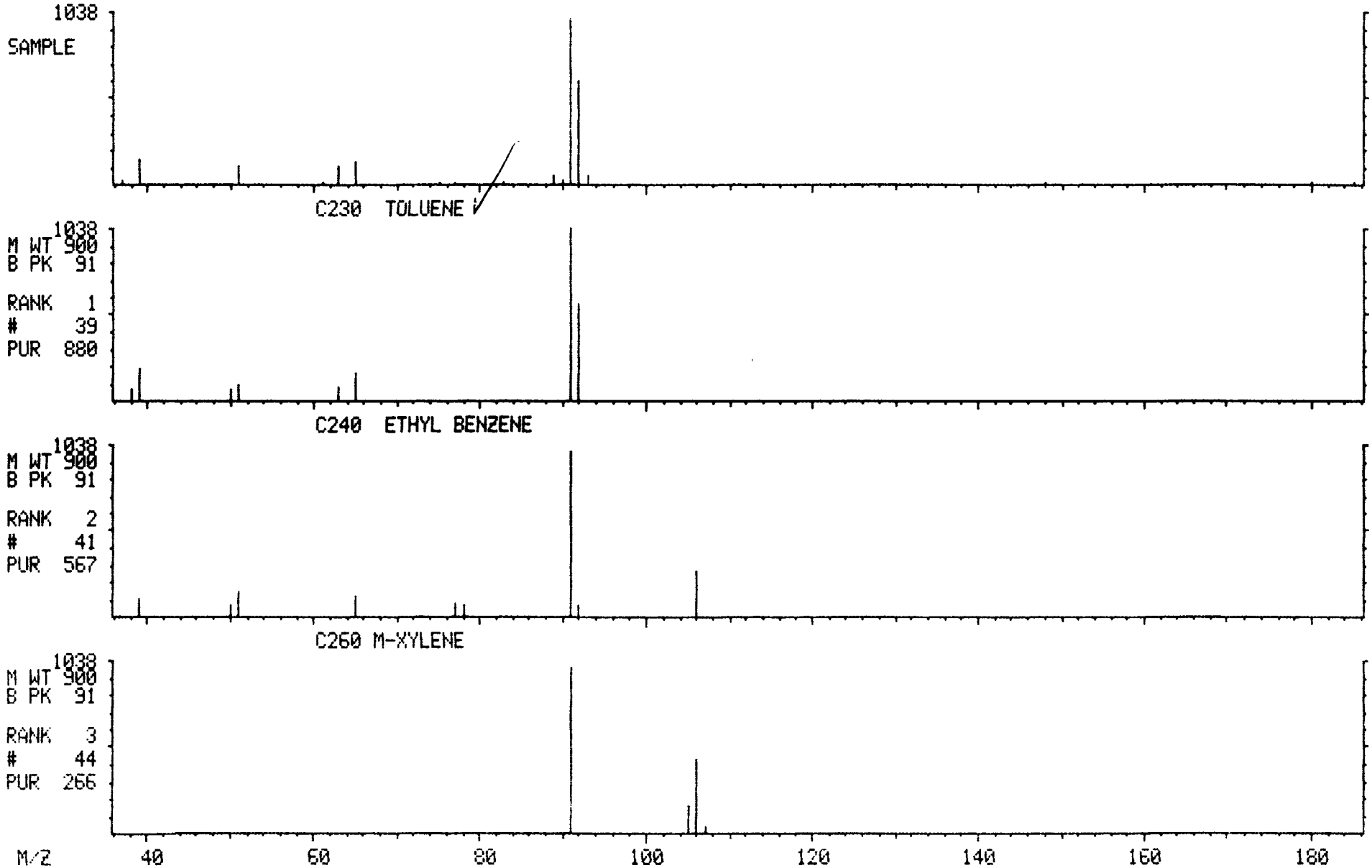
BASE M/Z: 91
RIC: 5432.



MID LIBRARY SEARCH (LIBRARYVP)
06/12/89 13:49:00 + 24:06
SAMPLE: CLP,6196,,89FC11R03,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 6196R03 # 723
CALI: 6196R03 # 3

BASE M/Z: 91
RIC: 5432.



Quantitation Report File: 6196R03T

Data: 6196R03.TI
06/12/89 13:49:00
Sample: CLP,6196,,89FC11R03,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	UNKNOWN
2	UNKNOWN
3	CIO1 BROMOCHLOROMETHANE *INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	182	6:04	3	0.613	A BB	44508.	28.736	53.14
2	RIC	221	7:22	3	0.744	A BV	23762.	15.342	28.37
3	RIC	297	9:54	3	1.000	A BB	154884.	10.000 UG/L	18.49

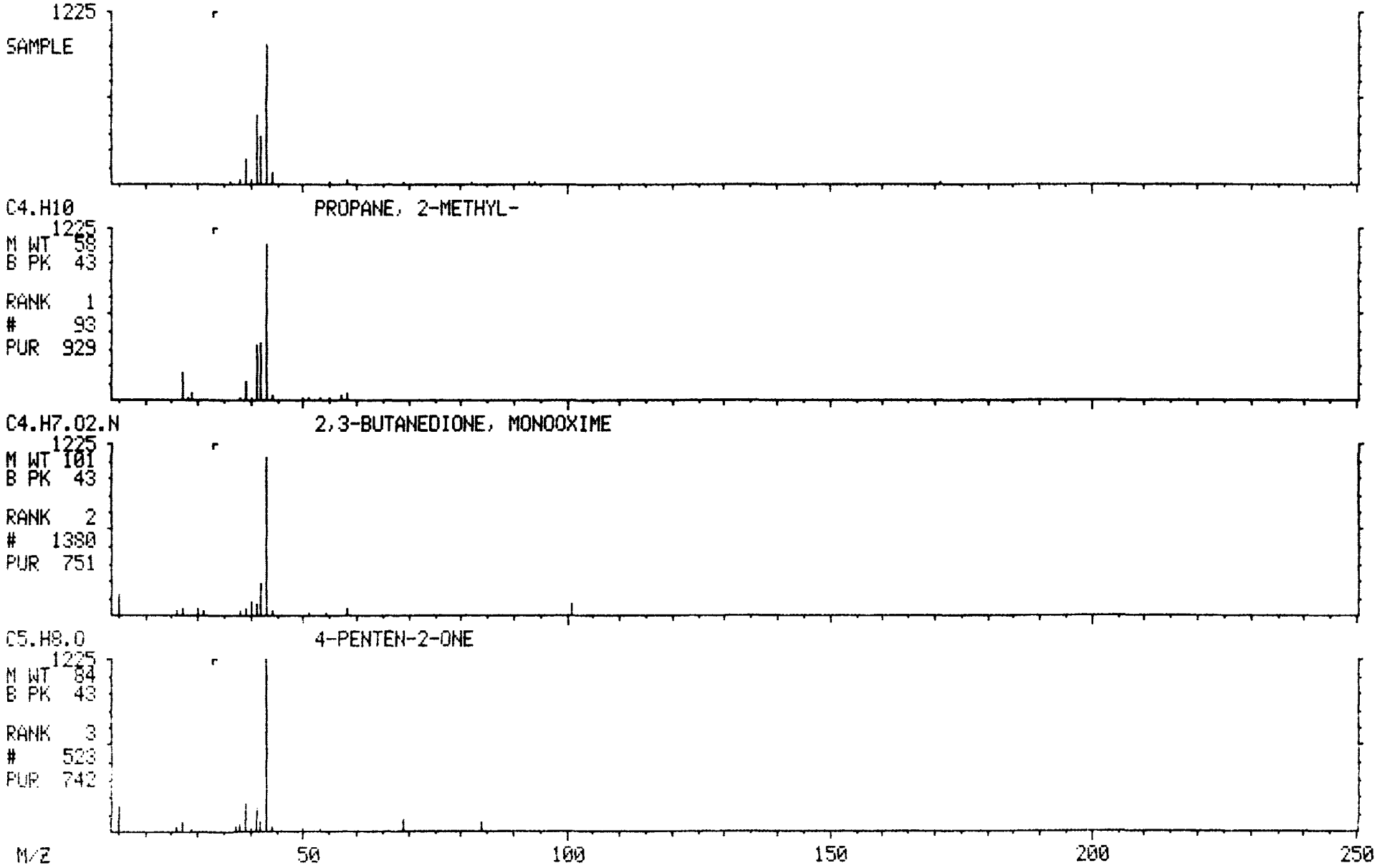
1) $\frac{44508}{1} \times \frac{10\ mg/L}{154884} = 3$

2) $\frac{23762}{1} \times \frac{10\ mg/L}{154884} = 2\ mg/L$

MID LIBRARY SEARCH (LIBRARYNB)
06/12/89 13:49:00 + 6:04
SAMPLE: CLP,6196,,89FC11R03,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 6196R03 # 182
CALI: 6196R03 # 3

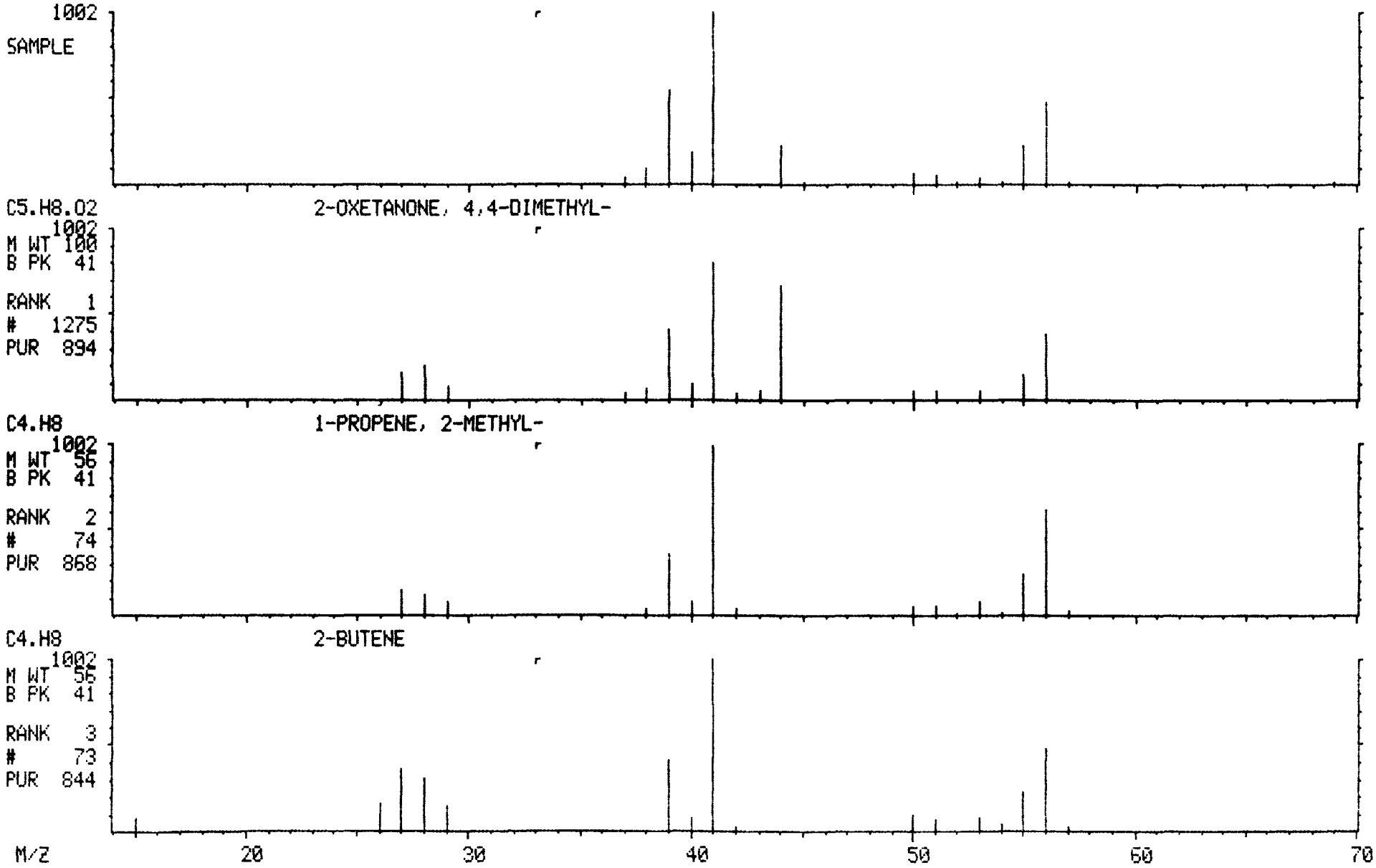
BASE M/Z: 43
RIC: 6904.



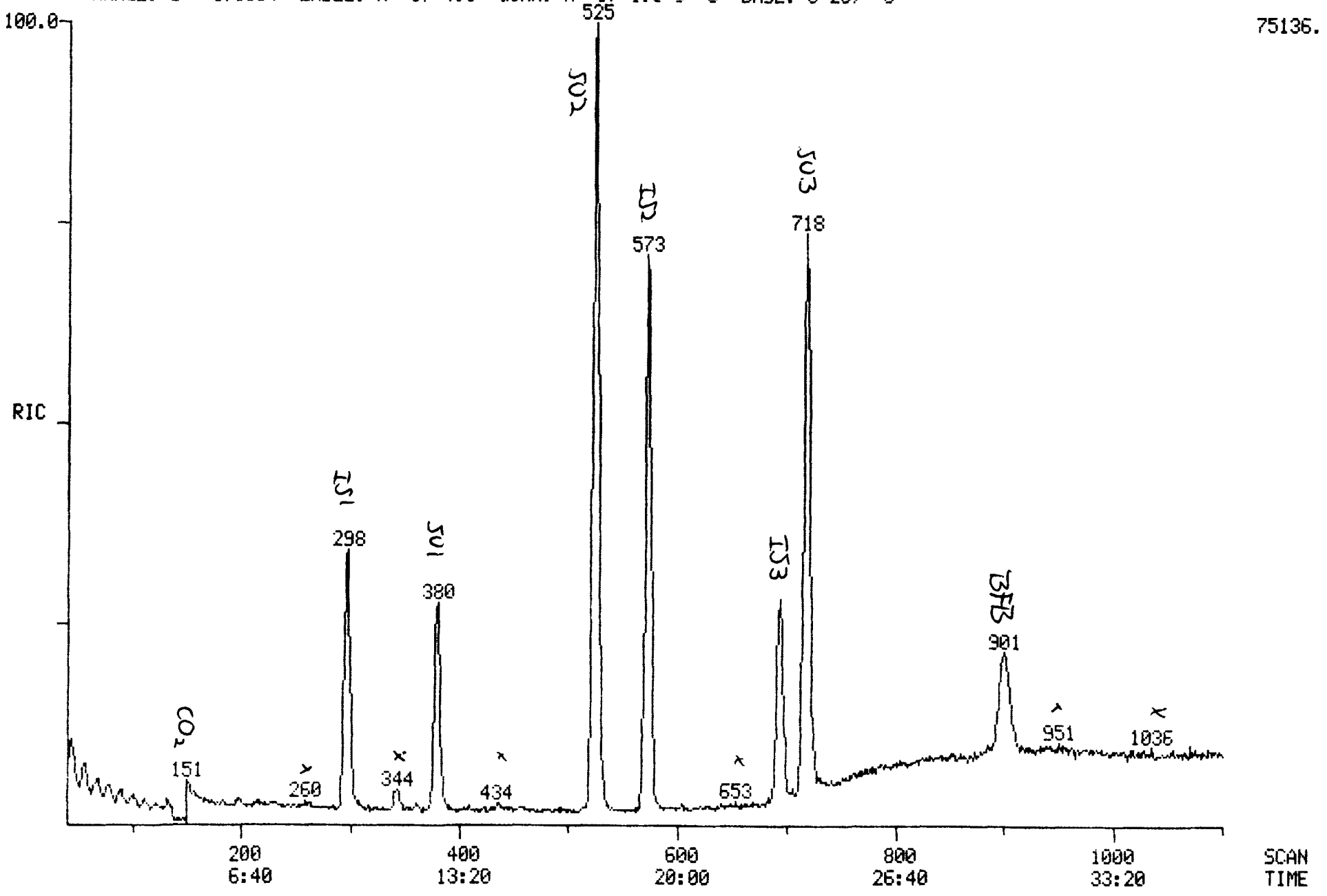
MID LIBRARY SEARCH (LIBRARYNB)
06/12/89 13:49:00 + 7:22
SAMPLE: CLP,6196,,89FC11R03,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 6196R03 # 221
CALI: 6196R03 # 3

BASE M/Z: 41
RIC: 3396.



RIC DATA: 6196568 #1 SCANS 40 TO 1100
06/12/89 14:33:00 CALI: 6196568 #3
SAMPLE: CLP,6196,,89FC20568,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 6196S68

Data: 6196S68.TI
06/12/89 14:33:00
Sample: CLP,6196,,89FC20S68,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

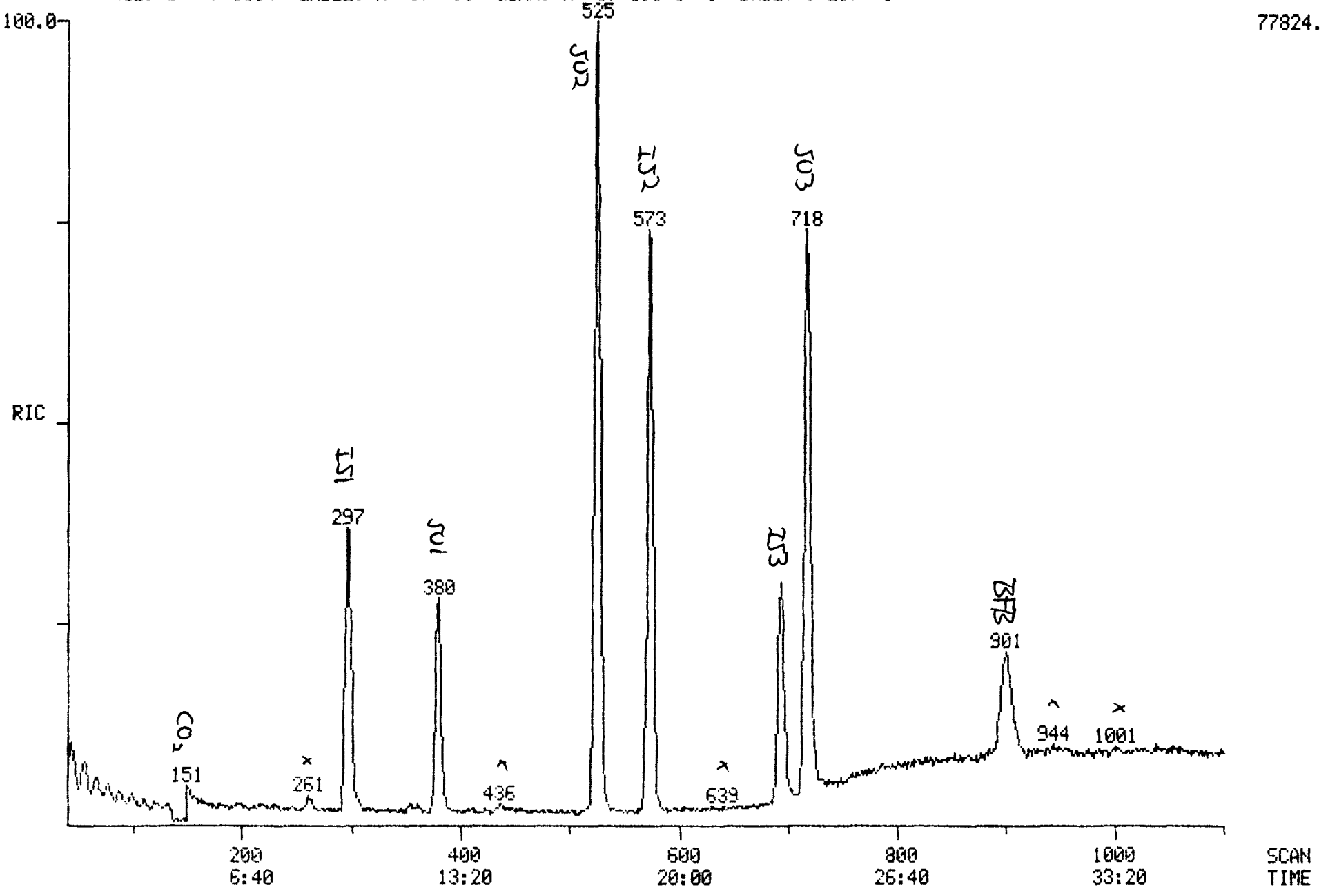
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	297	9:54	1	1.000	A BB	17382.	10.000 UG/L	16.45
2	77	573	19:06	2	1.000	A BB	78138.	10.000 UG/L	16.45
3	55	694	23:08	3	1.000	A BB	42495.	10.000 UG/L	16.45
4	65	380	12:40	1	1.279	A BB	40256.	9.792 UG/L	16.10
5	84	524	17:28	2	0.914	A BB	194047.	10.424 UG/L	17.14
6	98	717	23:54	3	1.033	A BB	111099.	10.585 UG/L	17.41

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	9.79	10.00	2.316	2.365	0.98
5	17:26	1.00	0.917	1.00	10.42	10.00	2.483	2.382	1.04
6	23:52	1.00	1.038	1.00	10.58	10.00	2.614	2.470	1.06

RIC DATA: 6196S69 #1 SCANS 40 TO 1100
06/12/89 15:17:00 CALI: 6196S69 #3
SAMPLE: CLP,6196,,89FC20S69,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 6196S69

Data: 6196S69.TI
06/12/89 15:17:00
Sample: CLP,6196,,89FC20S69,L,W,,V,EPA,
Conds : 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

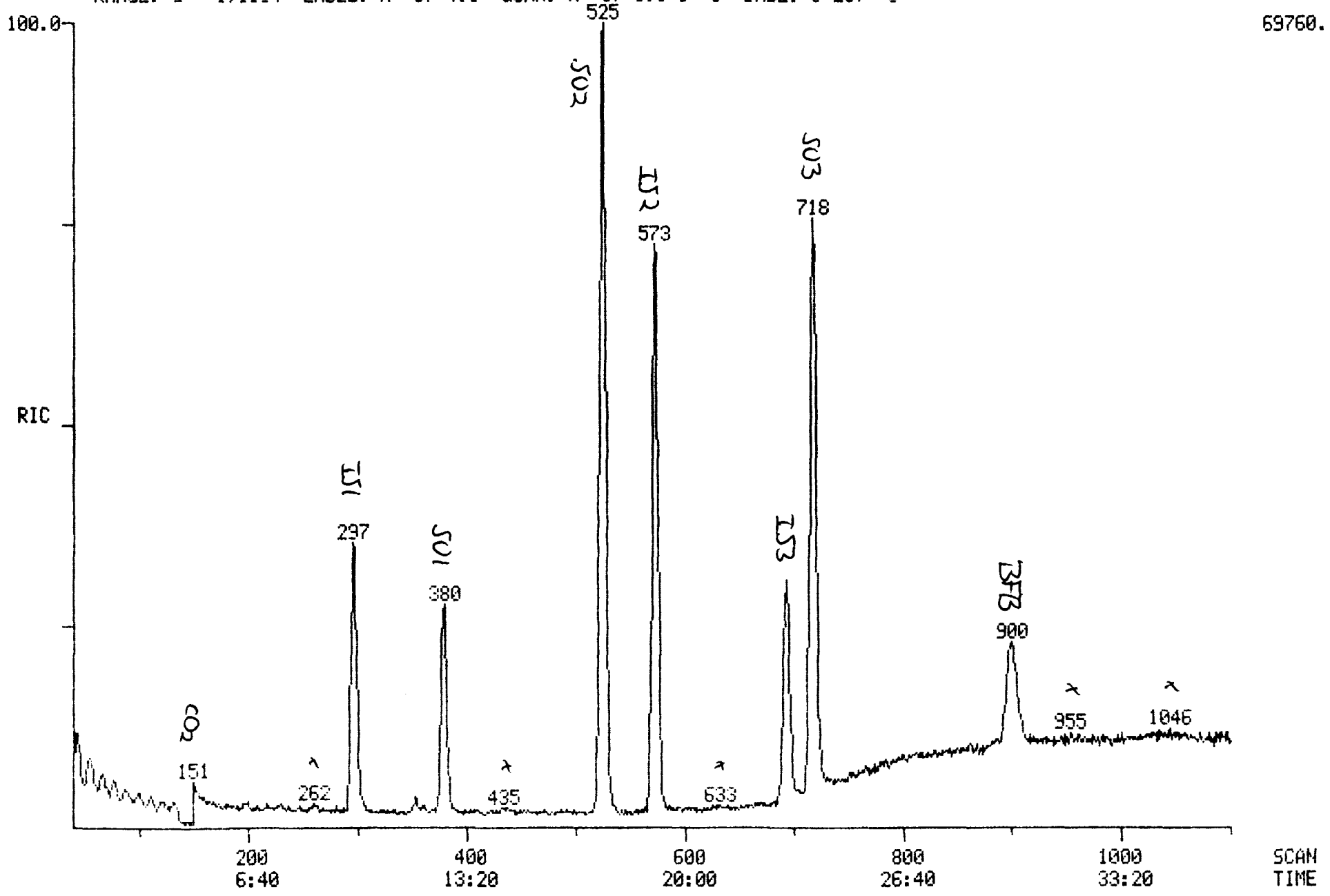
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	297	9:54	1	1.000	A BB	19907.	10.000 UG/L	16.75
2	77	573	19:06	2	1.000	A BB	80533.	10.000 UG/L	16.75
3	55	693	23:06	3	1.000	A BB	46861.	10.000 UG/L	16.75
4	65	380	12:40	1	1.279	A BB	43890.	9.321 UG/L	15.61
5	84	525	17:30	2	0.916	A BB	200105.	10.430 UG/L	17.47
6	98	717	23:54	3	1.035	A BB	115185.	9.952 UG/L	16.67

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	9.32	10.00	2.205	2.365	0.93
5	17:26	1.00	0.917	1.00	10.43	10.00	2.485	2.382	1.04
6	23:52	1.00	1.038	1.00	9.95	10.00	2.458	2.470	1.00

RIC DATA: 6196570 #1 SCANS 40 TO 1100
06/12/89 16:01:00 CALI: 6196570 #3
SAMPLE: CLP,6196,,83FC20570,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 6196S70

Data: 6196S70.TI
06/12/89 16:01:00
Sample: CLP,6196,,89FC20S70,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

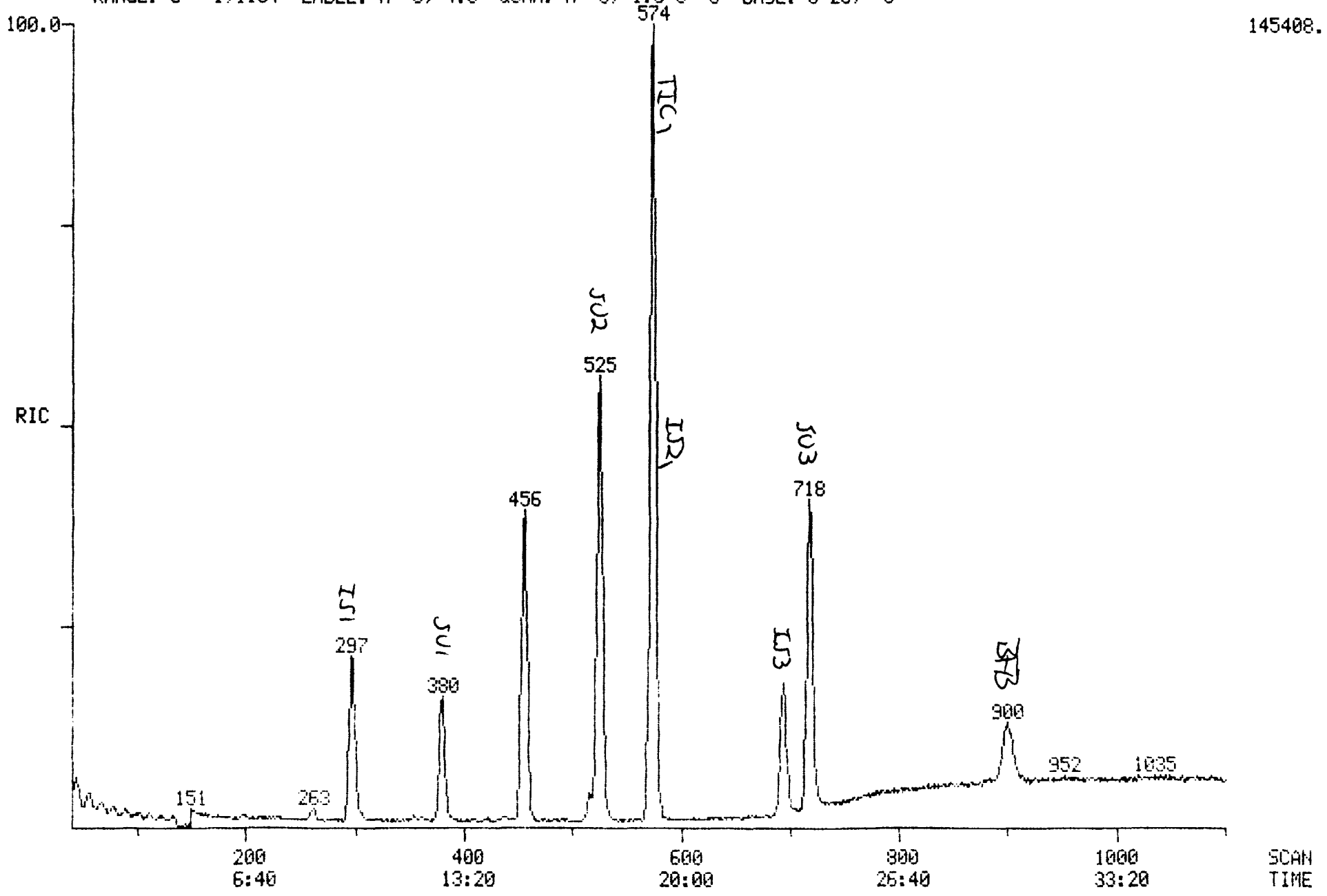
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	297	9:54	1	1.000	A BB	15878.	10.000 UG/L	16.45
2	77	574	19:08	2	1.000	A BB	73378.	10.000 UG/L	16.45
3	55	693	23:06	3	1.000	A BB	42304.	10.000 UG/L	16.45
4	65	379	12:38	1	1.276	A BB	37797.	10.064 UG/L	16.55
5	84	525	17:30	2	0.915	A BB	182240.	10.425 UG/L	17.15
6	98	718	23:56	3	1.036	A BB	107781.	10.315 UG/L	16.96

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	10.06	10.00	2.381	2.365	1.01
5	17:26	1.00	0.917	1.00	10.43	10.00	2.484	2.382	1.04
6	23:52	1.00	1.038	1.00	10.32	10.00	2.548	2.470	1.03

RIC DATA: 6196571 #1 SCANS 40 TO 1100
06/12/89 16:45:00 CALI: 6196571 #3
SAMPLE: CLP,6196,,89FC20571,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 6196S71

Data: 6196S71.TI
06/12/89 16:45:00
Sample: CLP,6196,,89FC20S71,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	298	9:56	1	1.000	A BB	20972.	10.000 UG/L	17.14
2	77	573	19:06	2	1.000	A BB	88133.	10.000 UG/L	17.14
3	55	693	23:06	3	1.000	A BB	53933.	10.000 UG/L	17.14
4	65	380	12:40	1	1.275	A BB	47173.	9.510 UG/L	16.30
5	84	525	17:30	2	0.916	A BB	211609.	10.079 UG/L	17.27
6	98	718	23:56	3	1.036	A BB	116788.	8.767 UG/L	15.02

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	9.51	10.00	2.249	2.365	0.95
5	17:26	1.00	0.917	1.00	10.08	10.00	2.401	2.382	1.01
6	23:52	1.00	1.038	1.00	8.77	10.00	2.165	2.470	0.88

Quantitation Report File: 6196S71T

Data: 6196S71.TI
06/12/89 16:45:00
Sample: CLP,6196,,89FC20S71,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	UNKNOWN		

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	RIC	297	9:54	1	1.000	A BB	184644.	10.000	UG/L	8.33
2	77	573	19:06	2	1.000	A BB	88994.	10.000	UG/L	8.33
3	RIC	574	19:08	3	1.000	A BB	886295.	100.000		83.33

The TIC coelutes with the second internal standard, therefore the area from the second internal standard will be subtracted out and the TIC quantitated using the 1st internal standard.

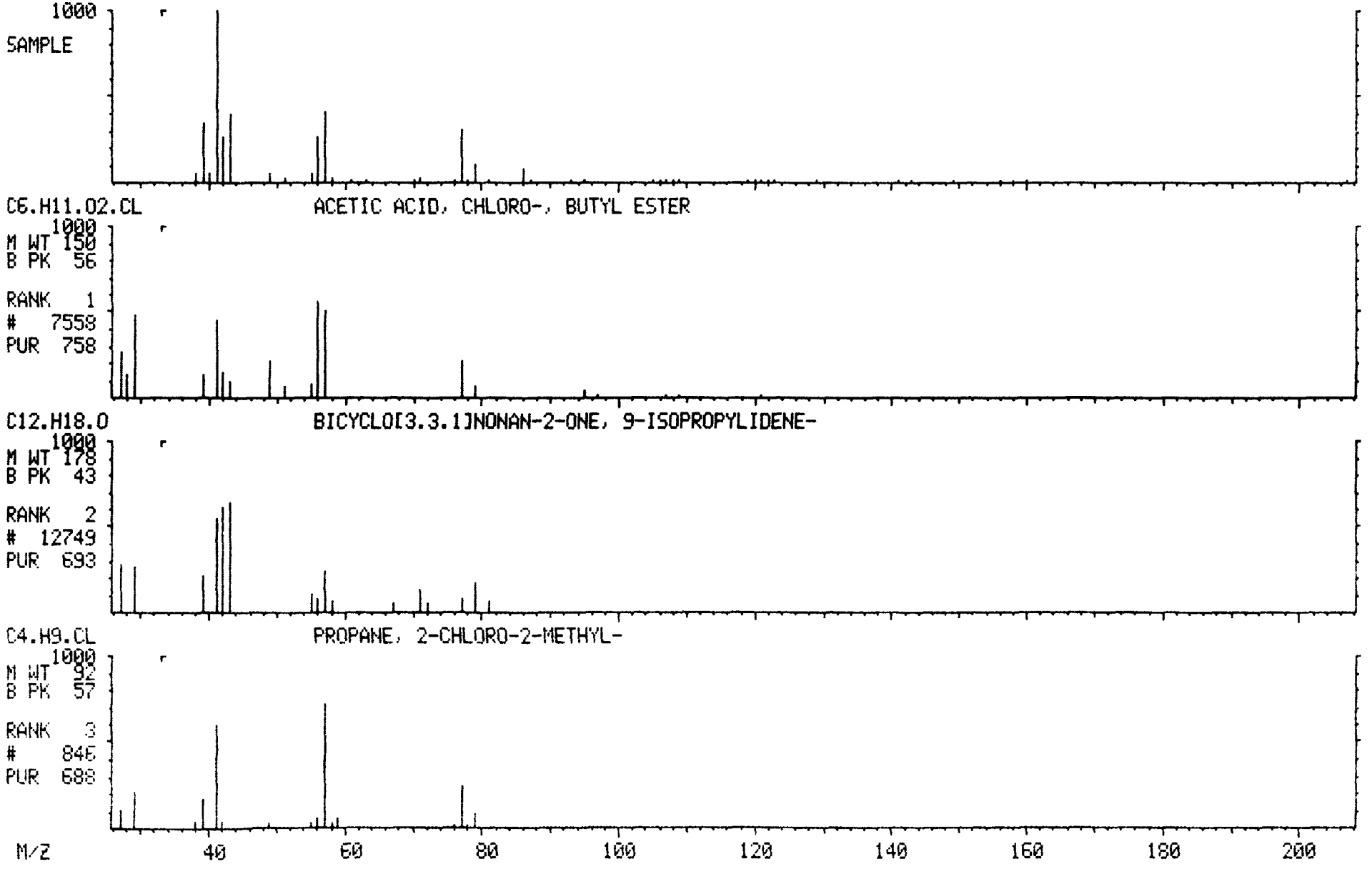
886295 - 88994 = 797301 = corrected RIC value for TIC

1) $\frac{797301}{1} \times \frac{10\ ug/L}{184644} = 43\ ug/L$

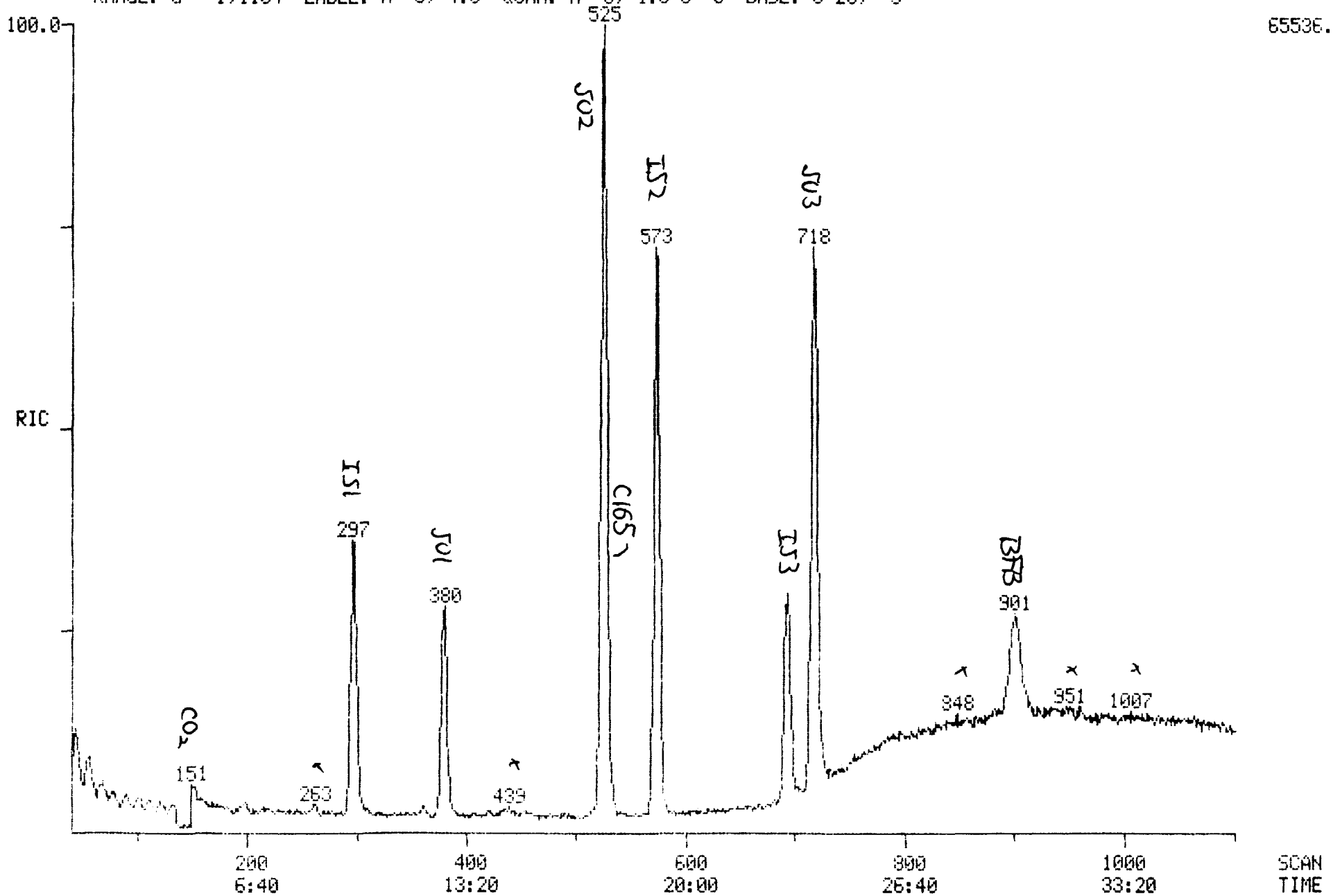
MID LIBRARY SEARCH (LIBRARYNB)
06/12/89 16:45:00 + 19:08
SAMPLE: CLP,6196,,89FC20571,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 6196571 # 574
CALI: 6196571 # 3

BASE M/Z: 41
RIC: 127488.



RIC DATA: 6196572 #1 SCANS 40 TO 1100
06/12/89 17:29:00 CALI: 6196572 #3
SAMPLE: CLP,6196,,89FC20572,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 6196S72

Data: 6196S72.TI
06/12/89 17:29:00
Sample: CLP,6196,,89FC20S72,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C165	BENZENE	

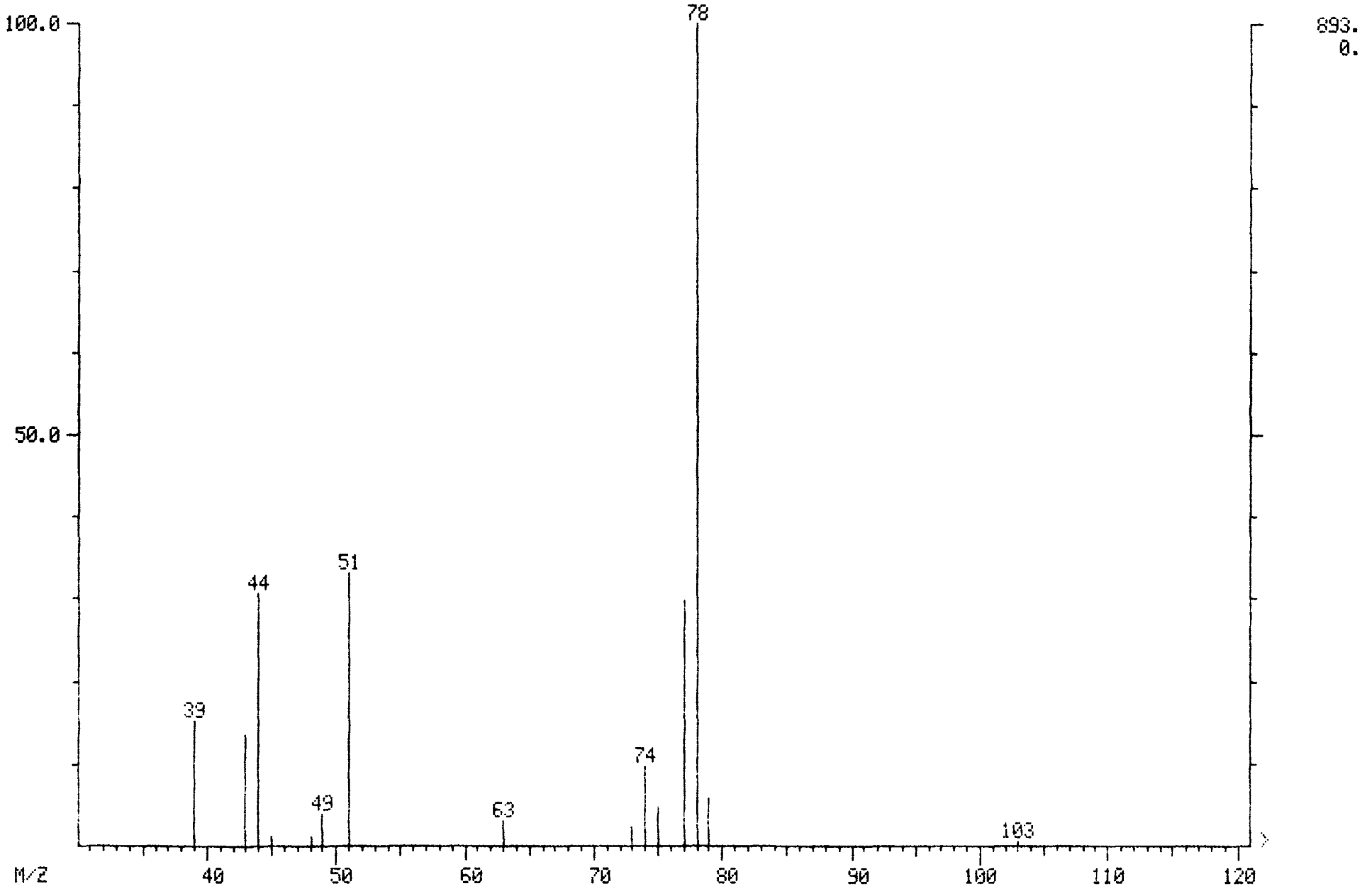
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	297	9:54	1	1.000	A BB	15590.	10.000	UG/L	16.48
2	77	573	19:06	2	1.000	A BB	66403.	10.000	UG/L	16.48
3	55	693	23:06	3	1.000	A BB	37494.	10.000	UG/L	16.48
4	65	379	12:38	1	1.276	A BB	36342.	9.856	UG/L	16.24
5	84	525	17:30	2	0.916	A BB	164361.	10.390	UG/L	17.12
6	98	717	23:54	3	1.035	A BB	91602.	9.891	UG/L	16.30
7	78	529	17:38	2	0.923	A BB	8016.	0.541	UG/L	0.89

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	9.86	10.00	2.331	2.365	0.99
5	17:26	1.00	0.917	1.00	10.39	10.00	2.475	2.382	1.04
6	23:52	1.00	1.038	1.00	9.89	10.00	2.443	2.470	0.99
7	17:36	1.00	0.924	1.00	0.54	15.00	0.080	2.233	0.04

MASS SPECTRUM
06/12/89 17:29:00 + 17:38
SAMPLE: CLP,6196,,89FC20572,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 161 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 6196572 #529
CALI: 6196572 #3

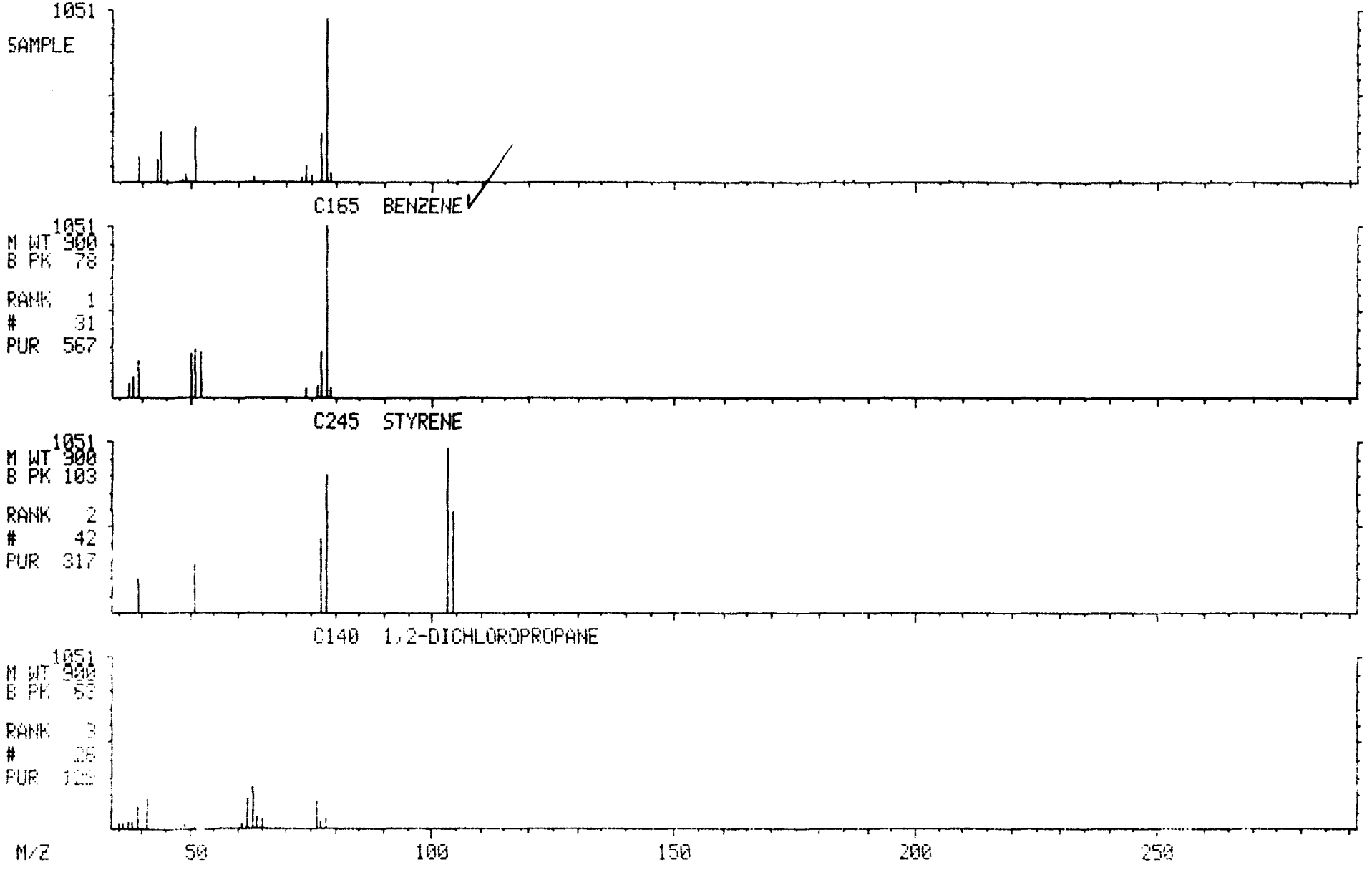
BASE M/Z: 78
RIC: 2348.



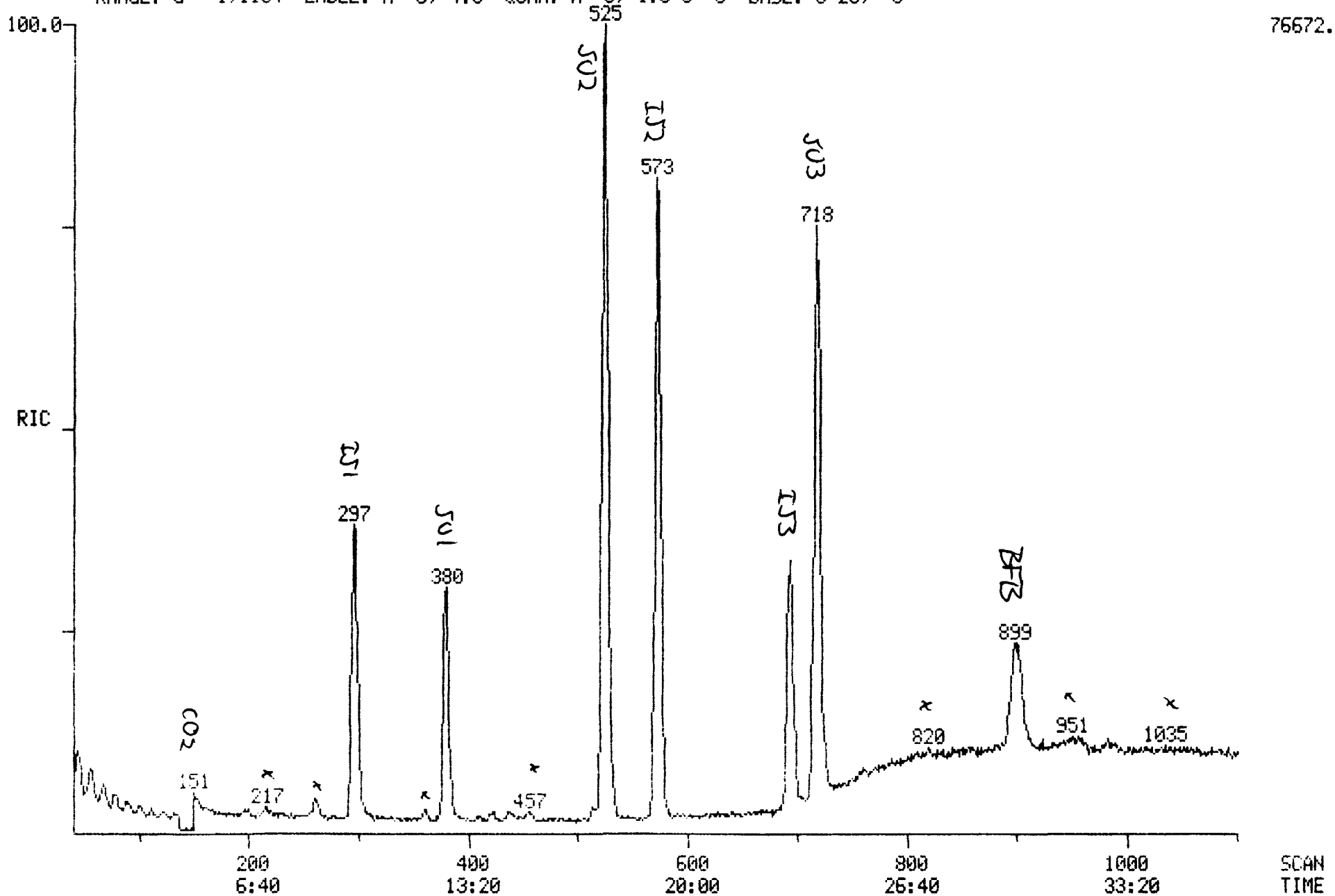
MID LIBRARY SEARCH (LIBRARYVP)
06/12/89 17:29:00 + 17:38
SAMPLE: CLP,6196,,89FC20572,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 6196572 # 529
CALI: 6196572 # 3

BASE M/Z: 78
RIC: 2348.



RIC DATA: 6196573 #1 SCANS 40 TO 1100
06/12/89 18:14:00 CALI: 6196573 #3
SAMPLE: CLP,6196,,89FC20573,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 6196S73

Data: 6196S73.TI
06/12/89 18:14:00
Sample: CLP,6196,,89FC20S73,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

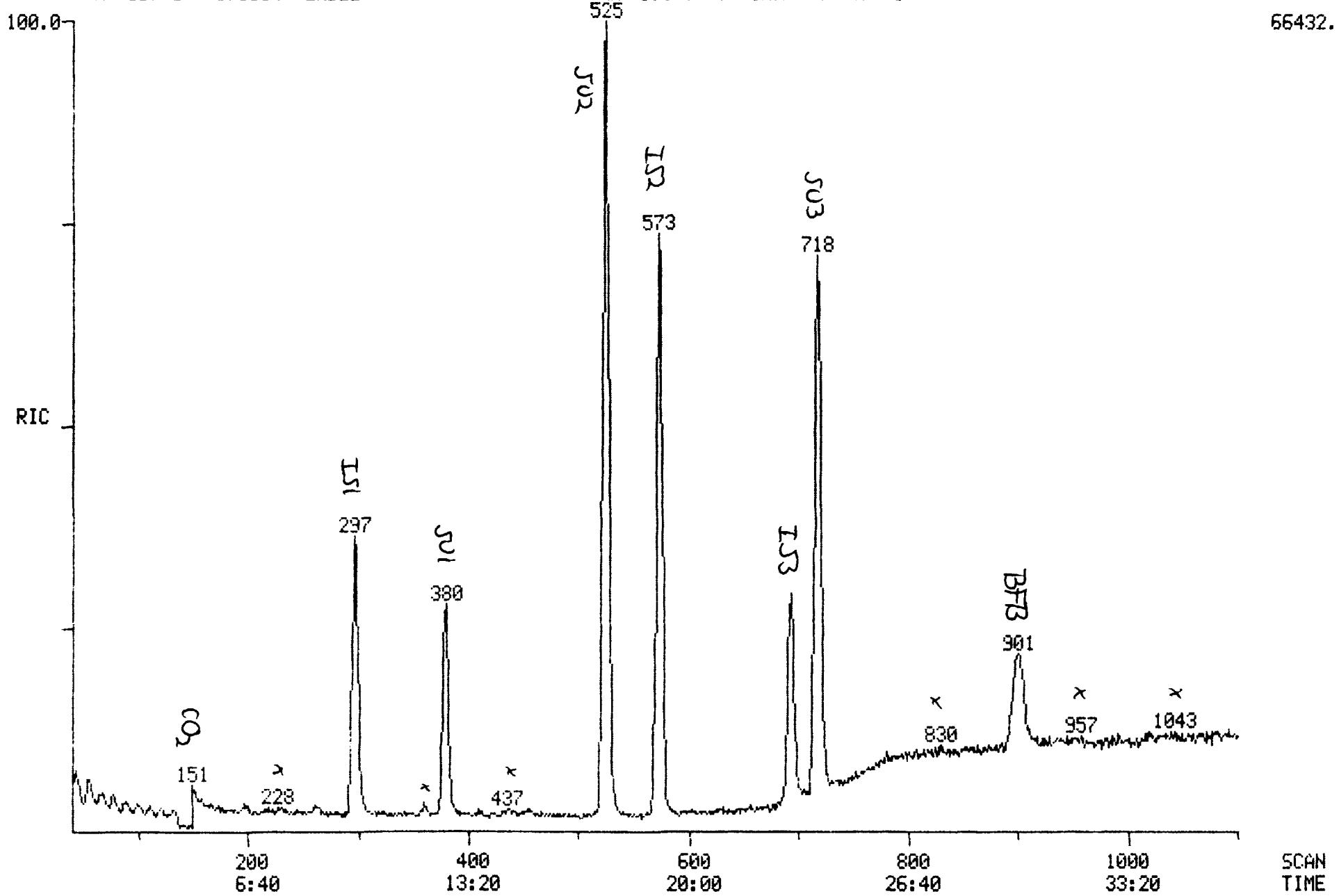
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	297	9:54	1	1.000	A BB	20131.	10.000	UG/L	17.51
2	77	573	19:06	2	1.000	A BB	86768.	10.000	UG/L	17.51
3	55	694	23:08	3	1.000	A BB	56116.	10.000	UG/L	17.51
4	65	379	12:38	1	1.276	A BB	46021.	9.665	UG/L	16.93
5	84	525	17:30	2	0.916	A BB	193063.	9.340	UG/L	16.36
6	98	718	23:56	3	1.035	A BV	112138.	8.091	UG/L	14.17

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	9.66	10.00	2.286	2.365	0.97
5	17:26	1.00	0.917	1.00	9.34	10.00	2.225	2.382	0.93
6	23:52	1.00	1.038	1.00	8.09	10.00	1.998	2.470	0.81

RIC DATA: 6196566 #1 SCANS 40 TO 1100
06/12/89 19:43:00 CALI: 6196566 #3
SAMPLE: CLP,6196,,89FC20566,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 6196S66

Data: 6196S66.TI
06/12/89 19:43:00
Sample: CLP,6196,,89FC20S66,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*

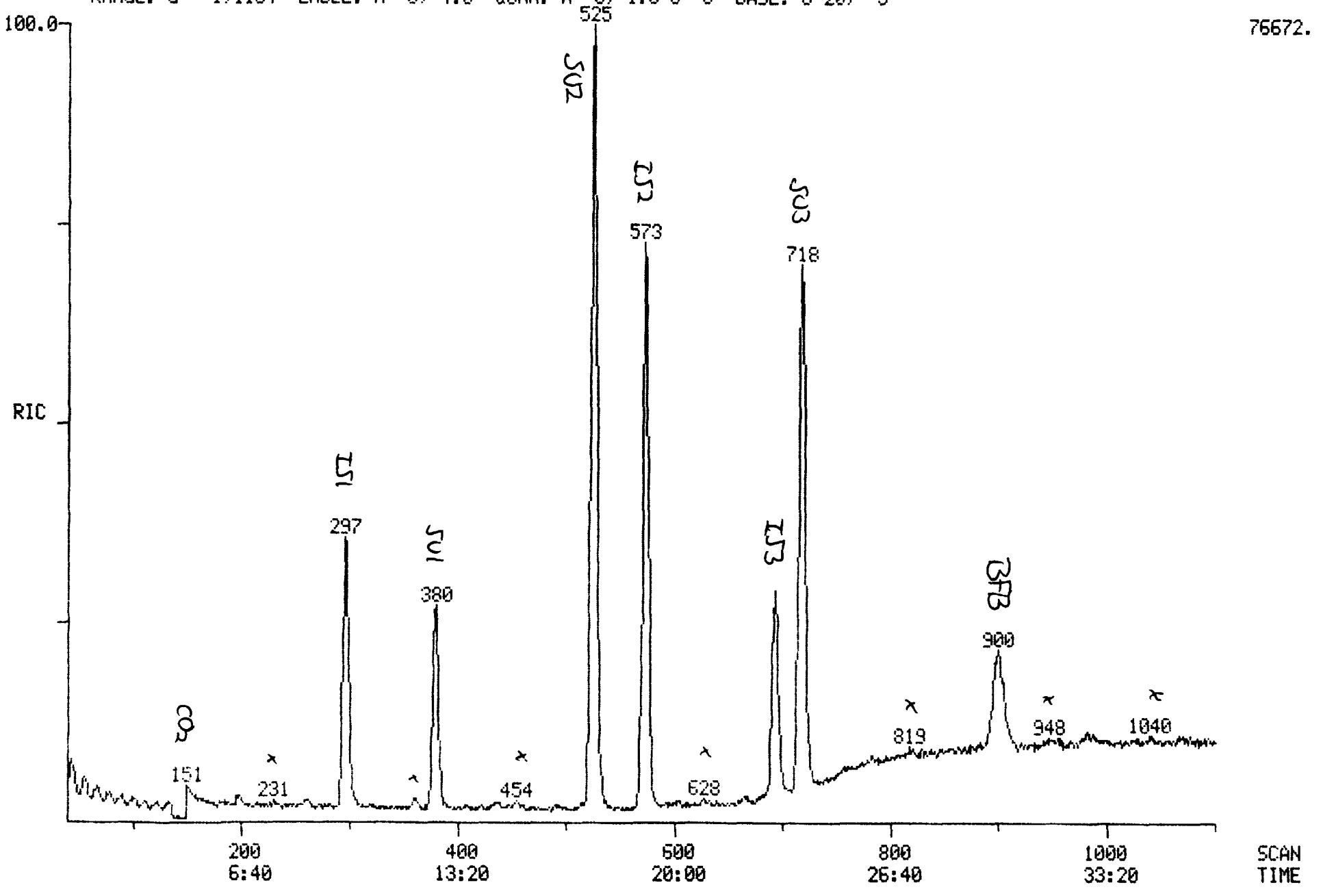
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	298	9:56	1	1.000	A BB	15514.	10.000 UG/L	16.49
2	77	573	19:06	2	1.000	A BB	66453.	10.000 UG/L	16.49
3	55	694	23:08	3	1.000	A BB	38157.	10.000 UG/L	16.49
4	65	380	12:40	1	1.275	A BB	36835.	10.038 UG/L	16.55
5	84	525	17:30	2	0.916	A BB	170944.	10.798 UG/L	17.80
6	98	718	23:56	3	1.035	A BB	92582.	9.823 UG/L	16.19

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	10.04	10.00	2.374	2.365	1.00
5	17:26	1.00	0.917	1.00	10.80	10.00	2.572	2.382	1.08
6	23:52	1.00	1.038	1.00	9.82	10.00	2.426	2.470	0.98

RIC
06/12/89 20:27:00
SAMPLE: CLP,6196,,89FC20D66,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 6196D66 #1
CALI: 6196D66 #3

SCANS 40 TO 1100



Quantitation Report File: 6196D66

Data: 6196D66.TI
06/12/89 20:27:00
Sample: CLP,6196,,89FC20D66,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

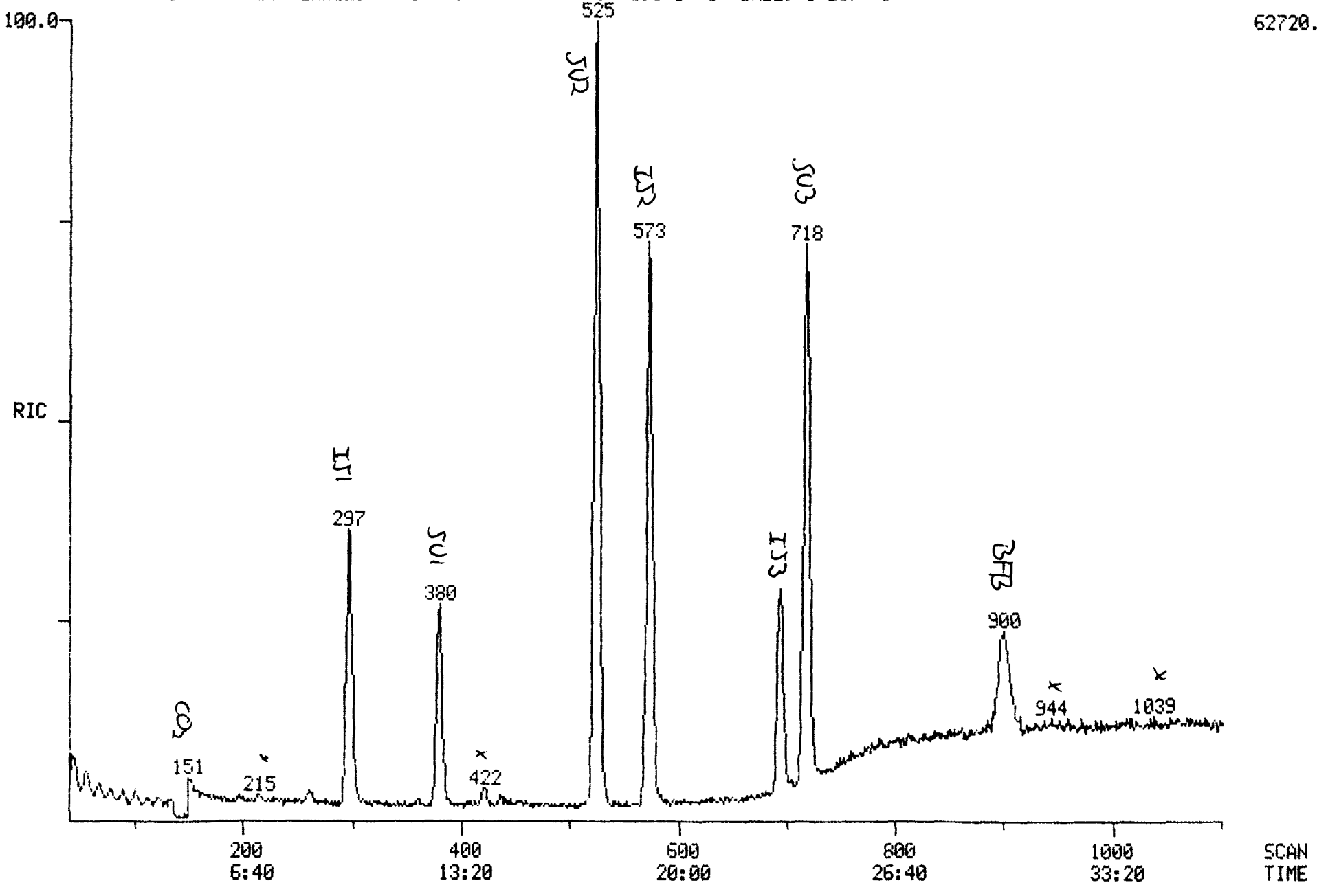
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	297	9:54	1	1.000	A BB	18170.	10.000 UG/L	16.48
2	77	573	19:06	2	1.000	A BB	76727.	10.000 UG/L	16.48
3	55	693	23:06	3	1.000	A BB	42832.	10.000 UG/L	16.48
4	65	380	12:40	1	1.279	A BB	41184.	9.583 UG/L	15.79
5	84	525	17:30	2	0.916	A BB	198068.	10.836 UG/L	17.86
6	98	718	23:56	3	1.036	A BB	108633.	10.268 UG/L	16.92

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	9.58	10.00	2.267	2.365	0.96
5	17:26	1.00	0.917	1.00	10.84	10.00	2.581	2.382	1.08
6	23:52	1.00	1.038	1.00	10.27	10.00	2.536	2.470	1.03

RIC DATA: 6196S67 #1 SCANS 40 TO 1100
06/12/89 21:11:00 CALI: 6196S67 #3
SAMPLE: CLP,6196,,89FC20S67,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: 6196S67

Data: 6196S67.TI
06/12/89 21:11:00
Sample: CLP,6196,,89FC20S67,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*

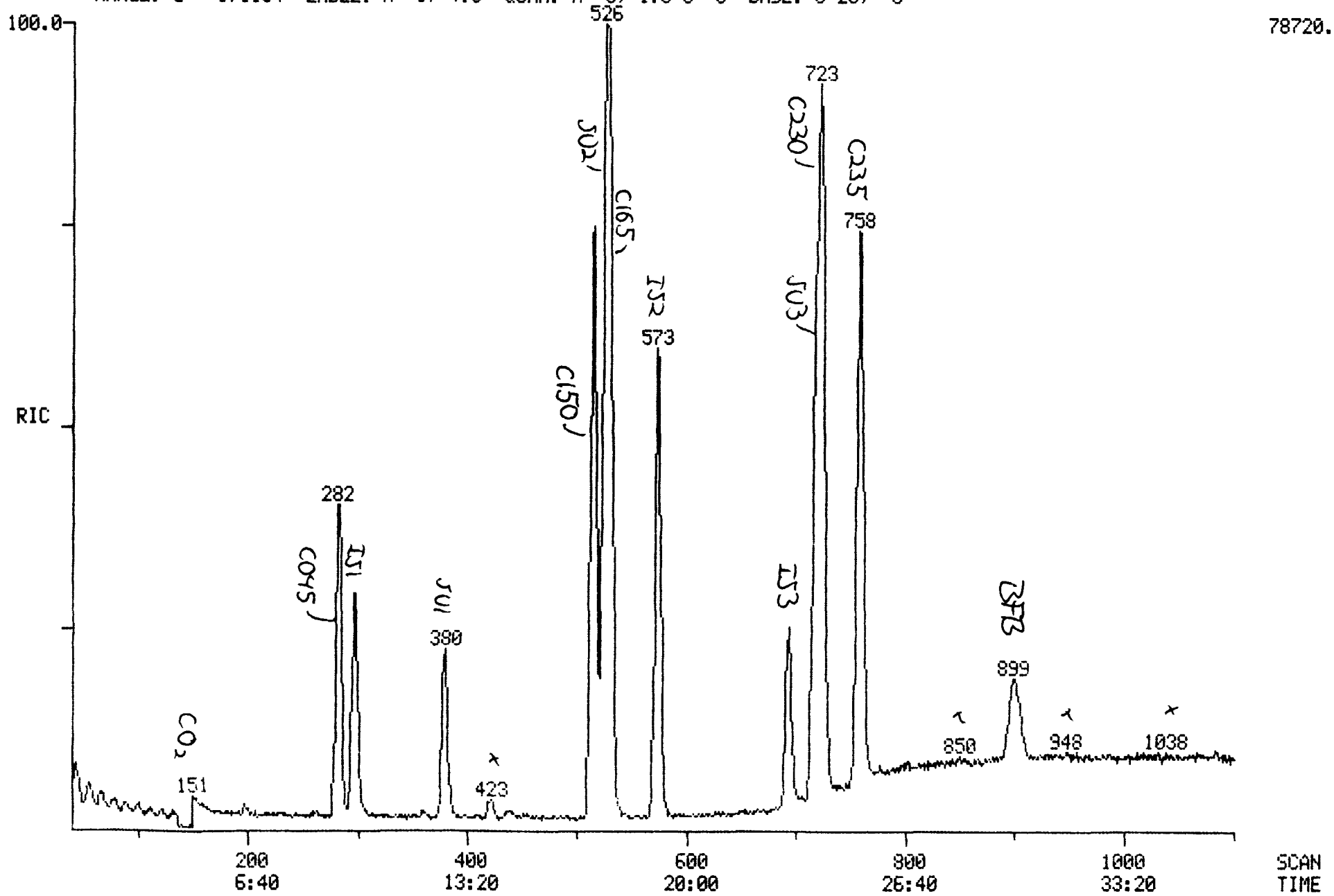
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	298	9:56	1	1.000	A BB	15230.	10.000 UG/L	16.72
2	77	573	19:06	2	1.000	A BB	64844.	10.000 UG/L	16.72
3	55	693	23:06	3	1.000	A BB	35643.	10.000 UG/L	16.72
4	65	380	12:40	1	1.275	A BB	33828.	9.391 UG/L	15.70
5	84	525	17:30	2	0.916	A BB	159419.	10.320 UG/L	17.25
6	98	718	23:56	3	1.036	A BB	88936.	10.102 UG/L	16.89

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	9.39	10.00	2.221	2.365	0.94
5	17:26	1.00	0.917	1.00	10.32	10.00	2.458	2.382	1.03
6	23:52	1.00	1.038	1.00	10.10	10.00	2.495	2.470	1.01

RIC
06/12/89 21:55:00
SAMPLE: CLP,6196,,89FC20S67MS,L,W,,V,MS,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 6196S67M #1
CALI: 6196S67M #3

SCANS 40 TO 1100



Quantitation Report File: 6196S67M

Data: 6196S67M.TI
06/12/89 21:55:00
Sample: CLP,6196,,89FC20S67MS,L,W,,V,MS,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C045	1,1-DICHLOROETHENE	
8	C150	TRICHLOROETHENE	
9	C165	BENZENE	
10	C230	TOLUENE	
11	C235	CHLOROBENZENE	

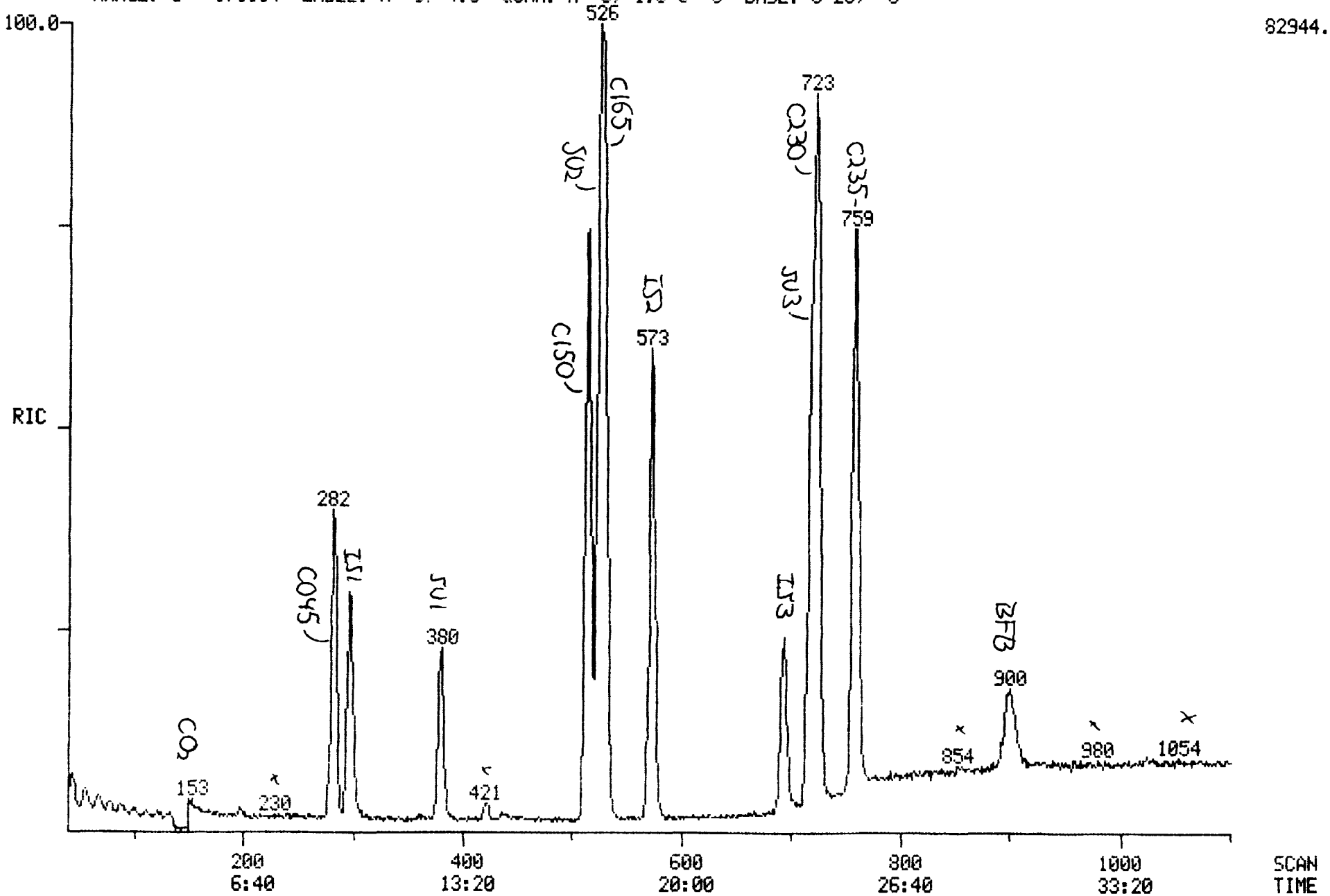
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	298	9:56	1	1.000	A BB	15371.	10.000 UG/L	9.84
2	77	573	19:06	2	1.000	A BB	64155.	10.000 UG/L	9.84
3	55	693	23:06	3	1.000	A BB	37335.	10.000 UG/L	9.84
4	65	380	12:40	1	1.275	A BB	34995.	9.626 UG/L	9.47
5	84	525	17:30	2	0.916	A VB	162640.	10.641 UG/L	10.47
6	98	718	23:56	3	1.036	A BB	90449.	9.808 UG/L	9.65
7	96	282	9:24	1	0.946	A BB	30163.	6.065 UG/L	5.97
8	130	515	17:10	2	0.899	A BB	54969.	8.143 UG/L	8.01
9	78	530	17:40	2	0.925	A BB	143467.	10.016 UG/L	9.85
10	92	723	24:06	3	1.043	A BB	85251.	8.564 UG/L	8.43
11	112	758	25:16	3	1.094	A BB	94110.	8.780 UG/L	8.64

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	9.63	10.00	2.277	2.365	0.96
5	17:26	1.00	0.917	1.00	10.64	10.00	2.535	2.382	1.06
6	23:52	1.00	1.038	1.00	9.81	10.00	2.423	2.470	0.98
7	9:22	1.00	0.955	0.99	6.06	15.00	1.308	3.236	0.40
8	17:06	1.00	0.898	1.00	8.14	15.00	0.571	1.052	0.54
9	17:36	1.00	0.924	1.00	10.02	15.00	1.491	2.233	0.67
10	24:04	1.00	1.046	1.00	8.56	15.00	1.522	2.666	0.57
11	25:14	1.00	1.097	1.00	8.78	15.00	1.680	2.871	0.59

RIC
06/12/89 22:39:00
SAMPLE: CLP,6196,,89FC20567MSD,L,W,,V,MSD,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 6196567D #1
CALI: 6196567D #3

SCANS 40 TO 1100



Quantitation Report File: 6196S67D

Data: 6196S67D.TI
06/12/89 22:39:00
Sample: CLP,6196,,89FC20S67MSD,L,W,,V,MSD,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

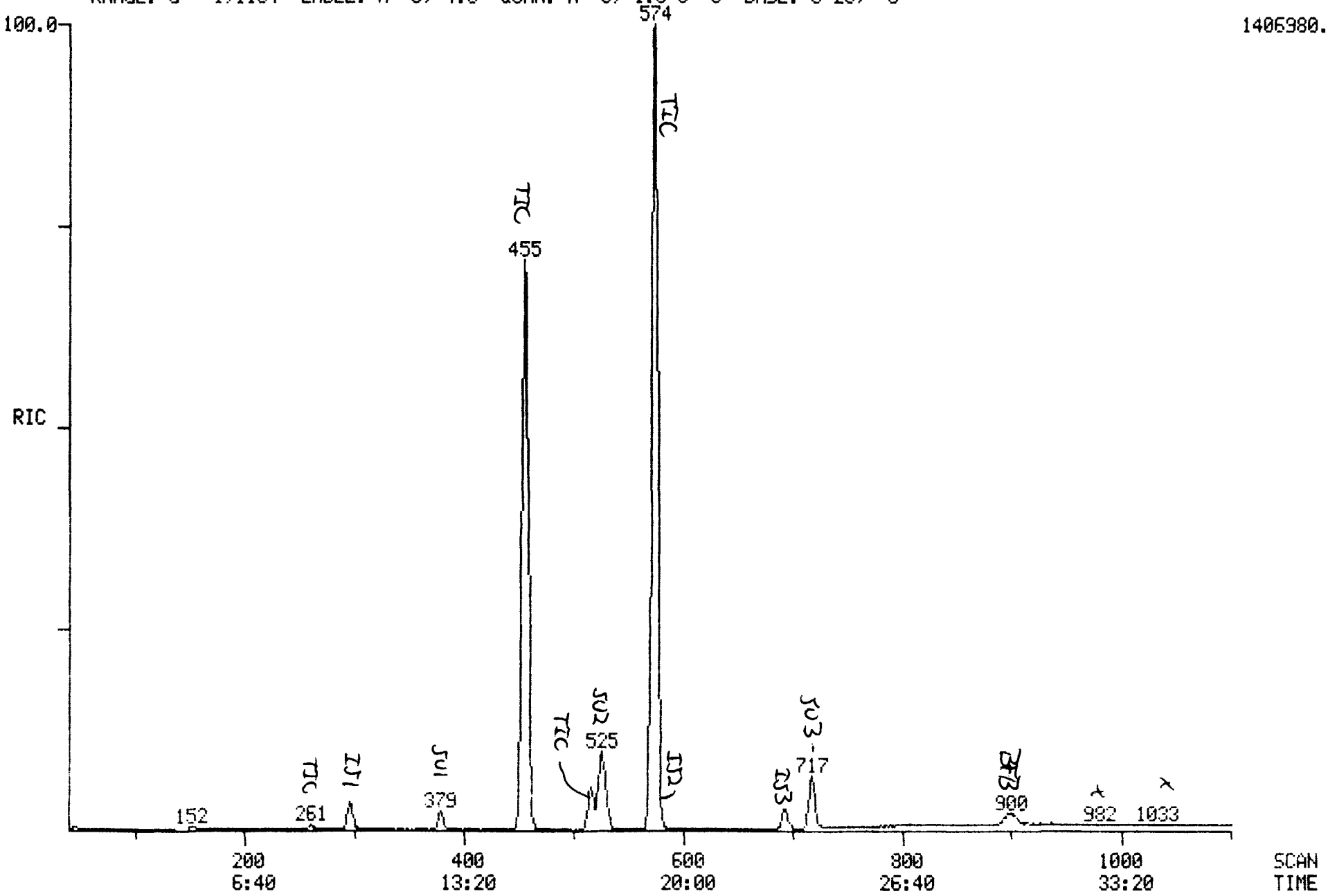
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C045	1,1-DICHLOROETHENE	
8	C150	TRICHLOROETHENE	
9	C165	BENZENE	
10	C230	TOLUENE	
11	C235	CHLOROBENZENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	297	9:54	1	1.000	A BB	15776.	10.000 UG/L	9.87
2	77	573	19:06	2	1.000	A BB	67969.	10.000 UG/L	9.87
3	55	694	23:08	3	1.000	A BB	38686.	10.000 UG/L	9.87
4	65	380	12:40	1	1.279	A BB	36295.	9.727 UG/L	9.60
5	84	525	17:30	2	0.916	A BB	161065.	9.947 UG/L	9.82
6	98	717	23:54	3	1.033	A BB	88964.	9.311 UG/L	9.19
7	96	282	9:24	1	0.949	A BB	30936.	6.060 UG/L	5.98
8	130	515	17:10	2	0.899	A BB	58285.	8.150 UG/L	8.04
9	78	529	17:38	2	0.923	A BB	152020.	10.018 UG/L	9.89
10	92	723	24:06	3	1.042	A BB	92451.	8.963 UG/L	8.85
11	112	758	25:16	3	1.092	A BB	101460.	9.135 UG/L	9.02

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	9.73	10.00	2.301	2.365	0.97
5	17:26	1.00	0.917	1.00	9.95	10.00	2.370	2.382	0.99
6	23:52	1.00	1.038	1.00	9.31	10.00	2.300	2.470	0.93
7	9:22	1.00	0.955	0.99	6.06	15.00	1.307	3.236	0.40
8	17:06	1.00	0.898	1.00	8.15	15.00	0.572	1.052	0.54
9	17:36	1.00	0.924	1.00	10.02	15.00	1.491	2.233	0.67
10	24:04	1.00	1.046	1.00	8.96	15.00	1.593	2.666	0.60
11	25:14	1.00	1.097	1.00	9.14	15.00	1.748	2.871	0.61

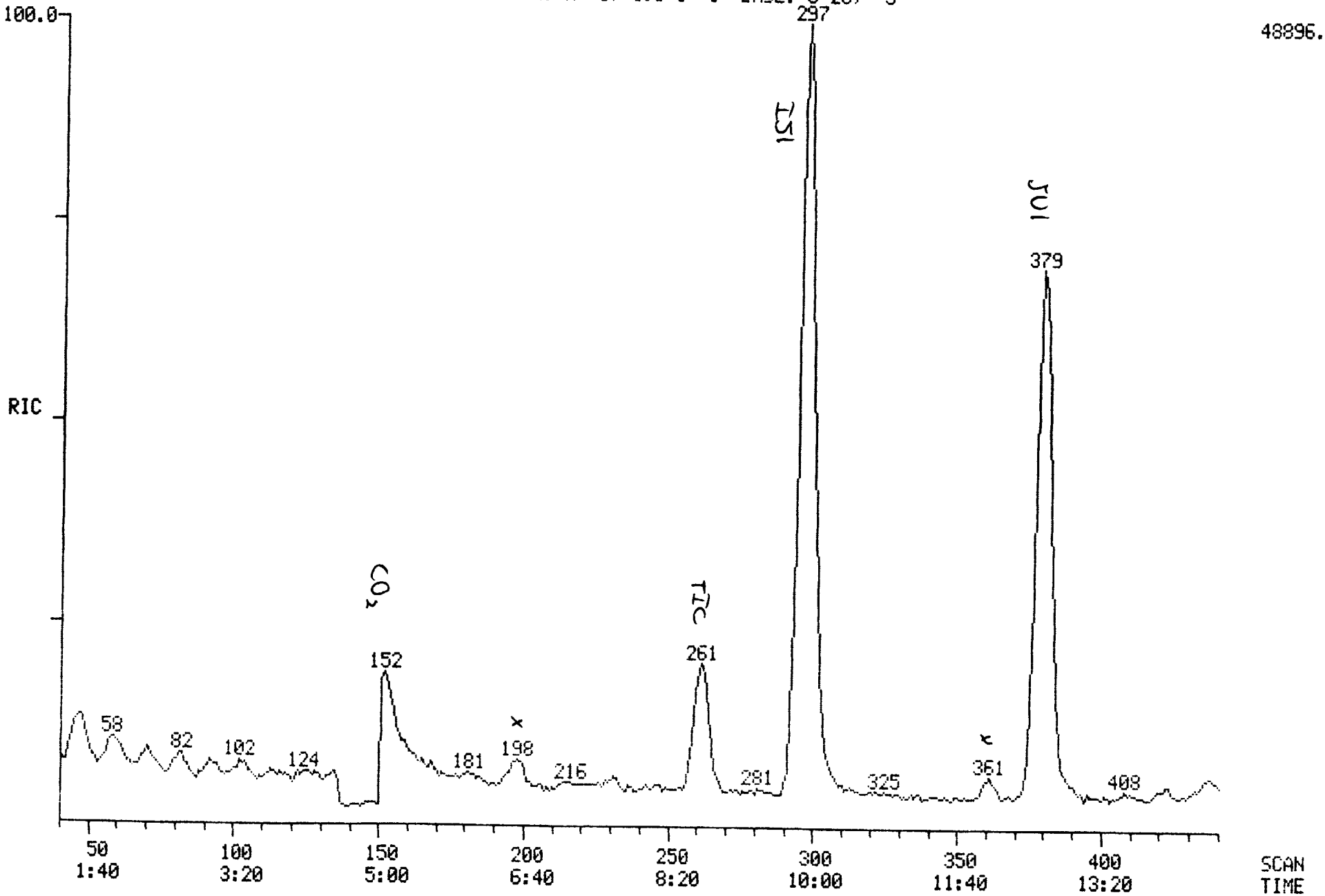
RIC DATA: 6194574A #1 SCANS 40 TO 1100
06/13/89 13:37:00 CALI: 6194574A #3
SAMPLE: CLP,6196,,89FC20574,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



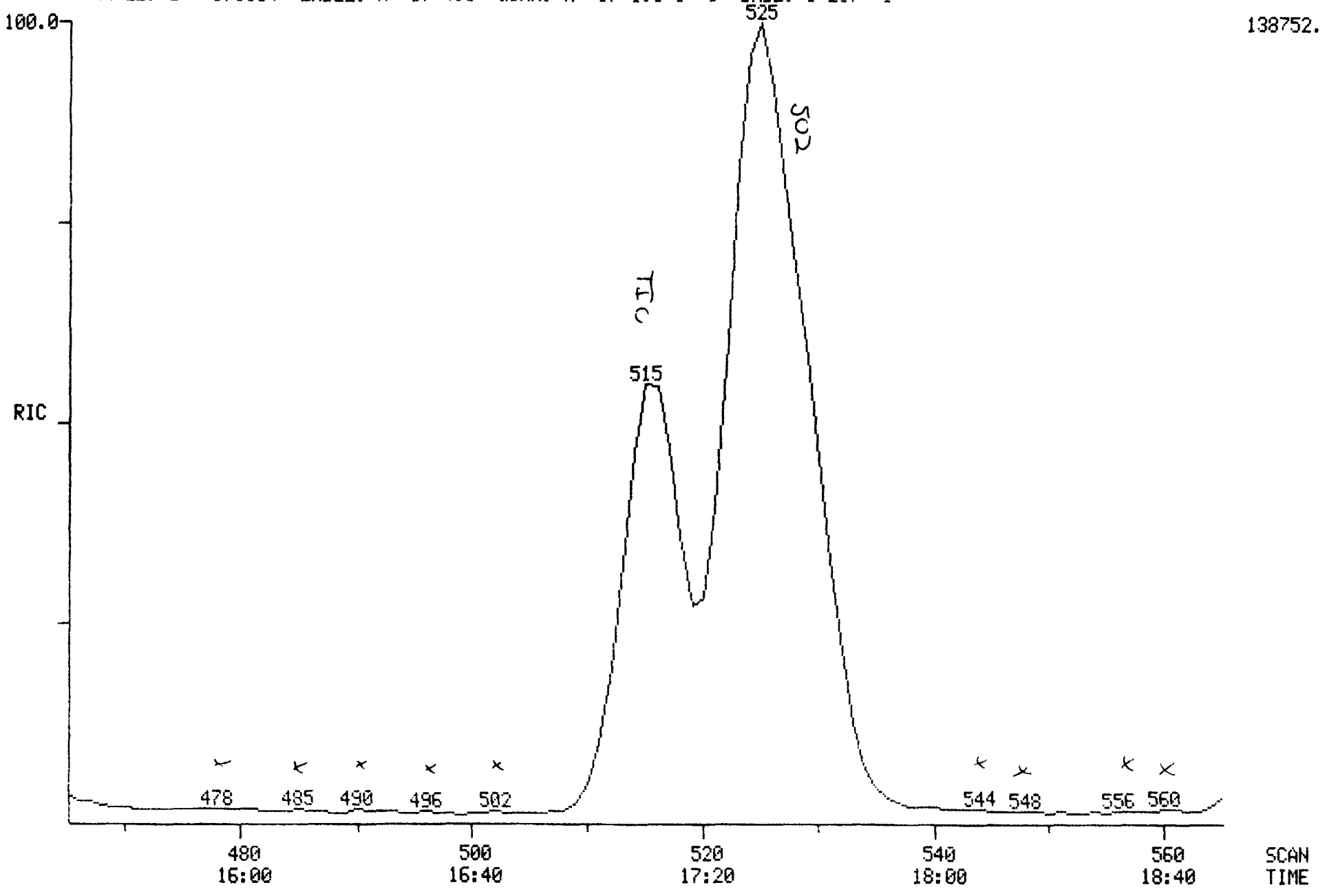
RIC
06/13/89 13:37:00
SAMPLE: CLP,6196,,89FC20S74,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 6194S74A #1
CALI: 6194S74A #3

SCANS 40 TO 440



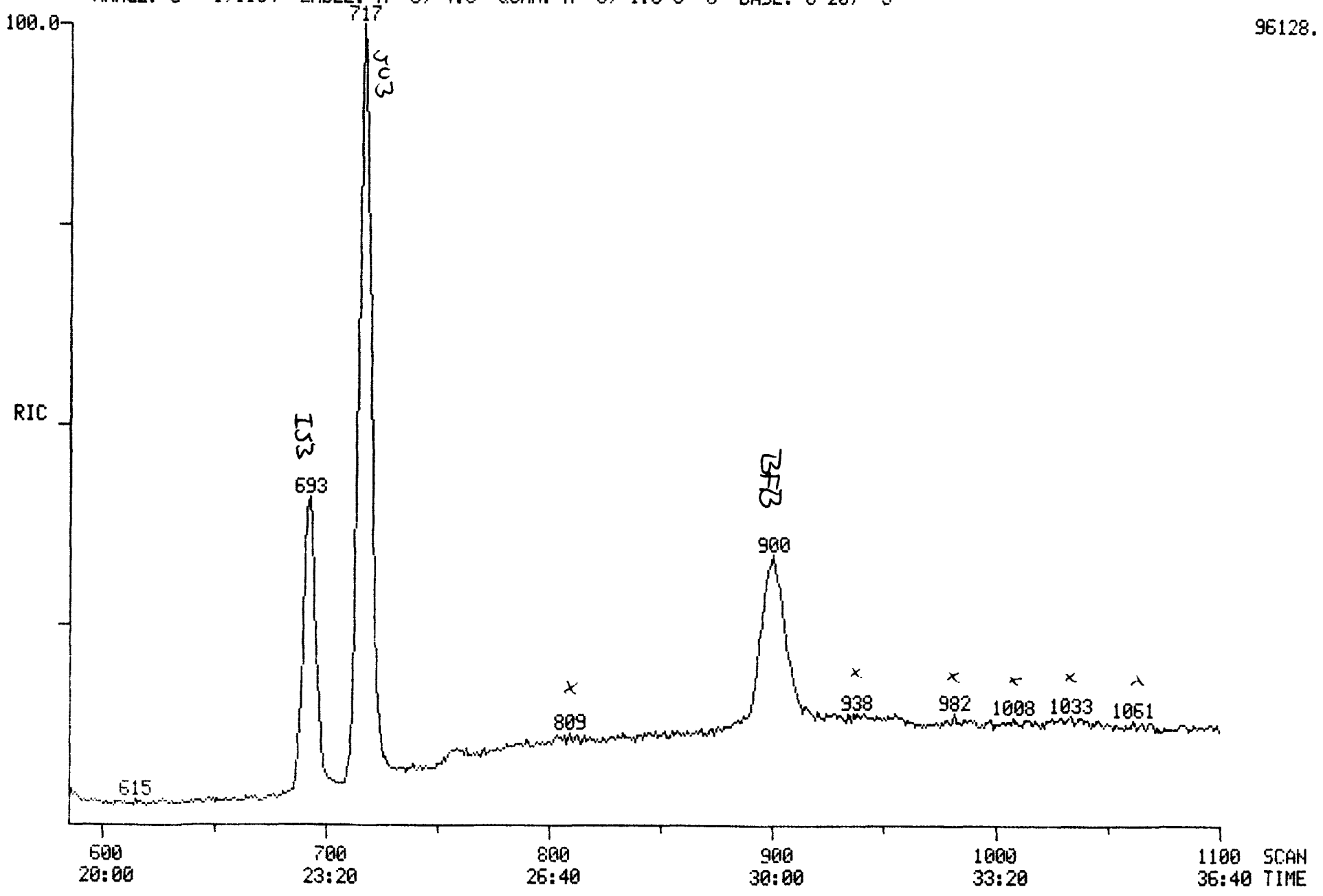
RIC DATA: 6194S74A #1 SCANS 465 TO 565
06/13/89 13:37:00 CALI: 6194S74A #3
SAMPLE: CLP,6196,,89FC20S74,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



RIC
06/13/89 13:37:00
SAMPLE: CLP,6196,,89FC20S74,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 6194S74A #1
CALI: 6194S74A #3

SCANS 585 TO 1100



Quantitation Report File: 6194S74A

Data: 6194S74A.TI
06/13/89 13:37:00
Sample: CLP,6196,,89FC20S74,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C165	BENZENE	

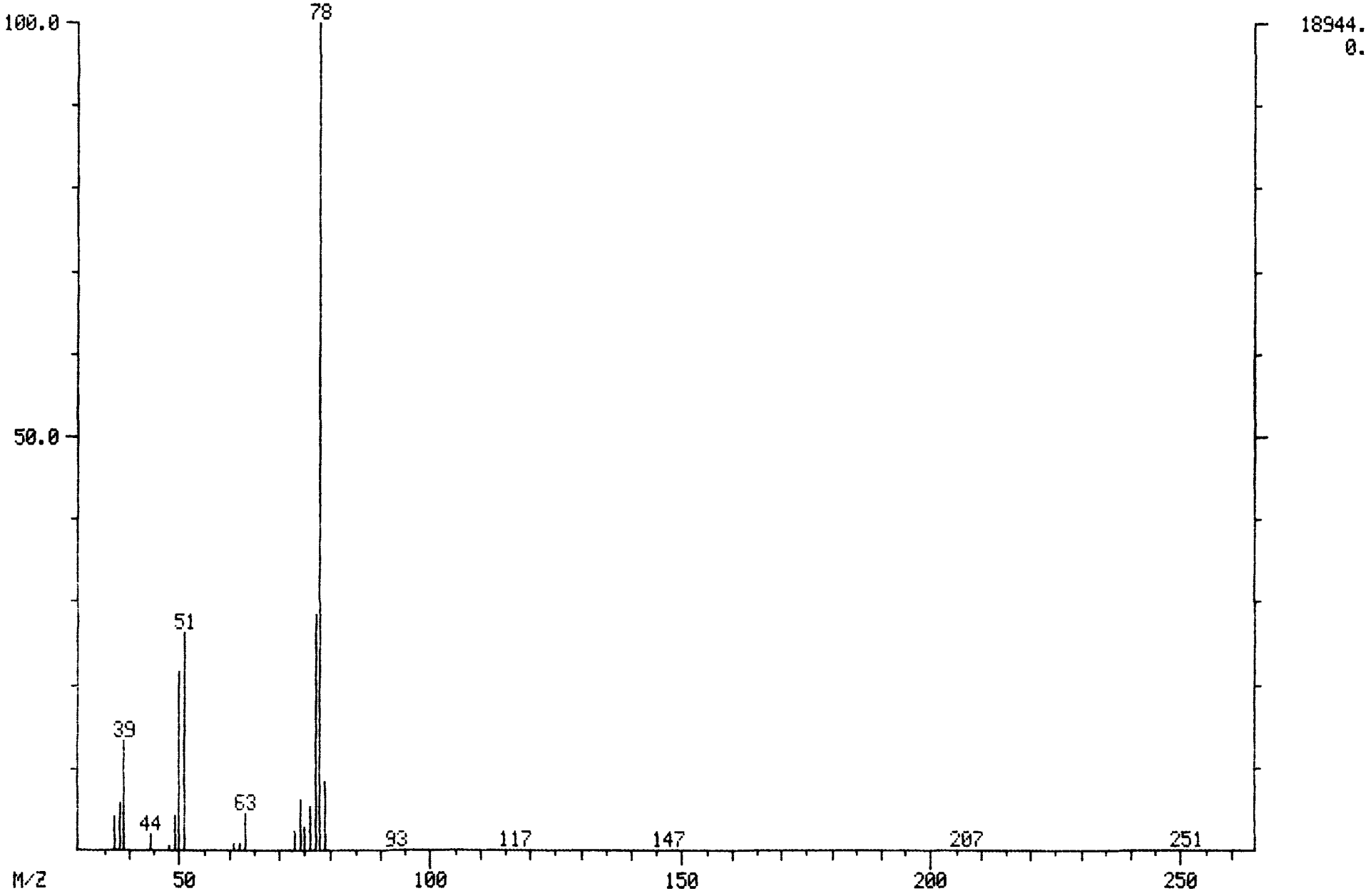
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	297	9:54	1	1.000	A BB	39995.	10.000	UG/L	15.37
2	77	573	19:06	2	1.000	A BB	158179.	10.000	UG/L	15.37
3	55	693	23:06	3	1.000	A BB	77961.	10.000	UG/L	15.37
4	65	379	12:38	1	1.276	A BB	67856.	9.870	UG/L	15.18
5	84	524	17:28	2	0.914	A BB	337209.	9.803	UG/L	15.07
6	98	717	23:54	3	1.035	A BB	205300.	10.479	UG/L	16.11
7	78	529	17:38	2	0.923	A BB	148405.	4.890	UG/L	7.52

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	9.87	10.00	1.697	1.719	0.99
5	17:26	1.00	0.917	1.00	9.80	10.00	2.132	2.175	0.98
6	23:52	1.00	1.038	1.00	10.48	10.00	2.633	2.513	1.05
7	17:36	1.00	0.924	1.00	4.89	15.00	0.625	1.919	0.33

MASS SPECTRUM
06/13/89 13:37:00 + 17:38
SAMPLE: CLP,6196,,89FC20574,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 161 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 6194574A #529
CALI: 6194574A #3

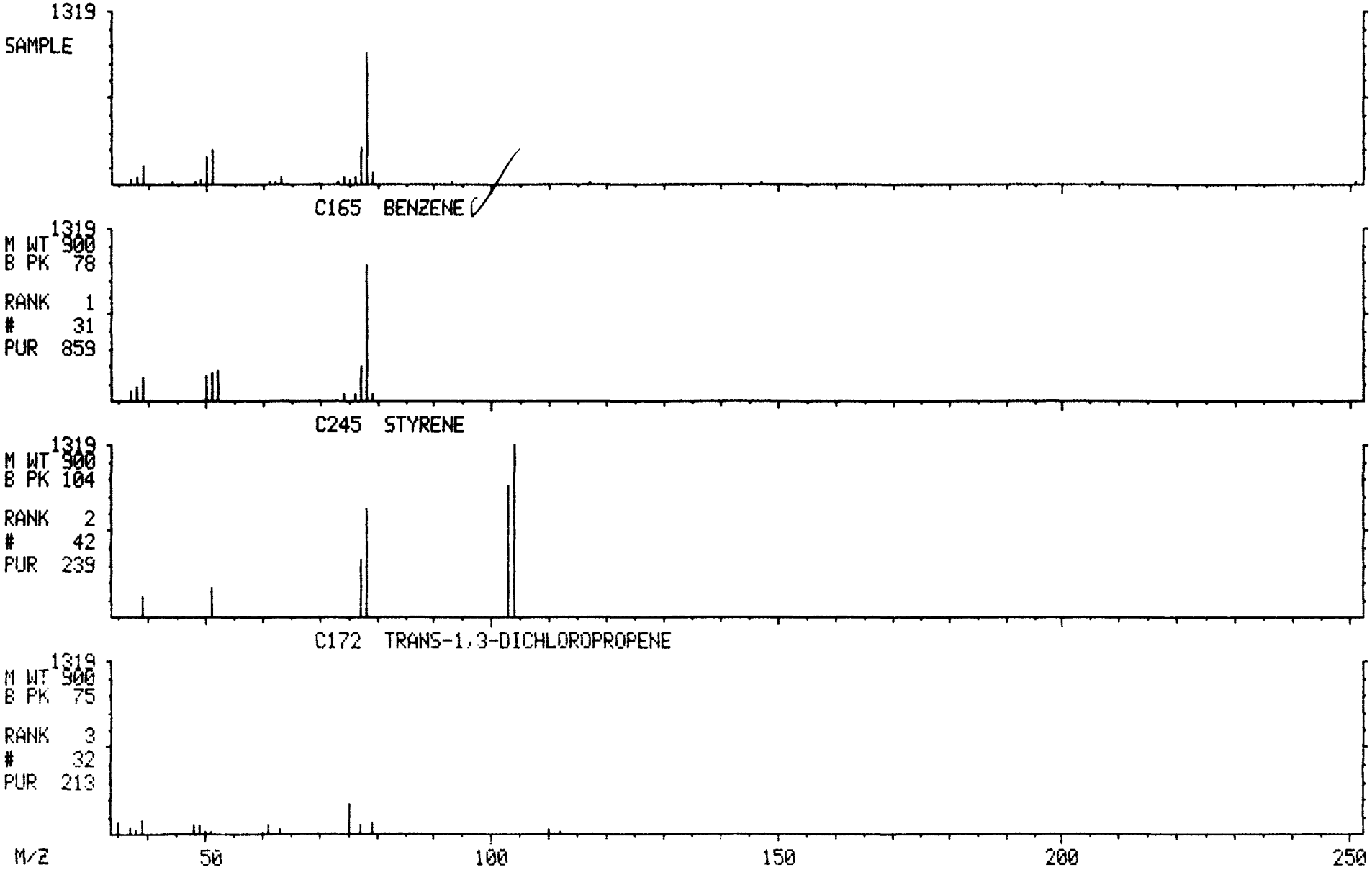
BASE M/Z: 78
RIC: 44928.



MID LIBRARY SEARCH (LIBRARYVP)
06/13/89 13:37:00 + 17:38
SAMPLE: CLP,6196,,89FC20S74,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 6194574A # 529
CALI: 6194574A # 3

BASE M/Z: 78
RIC: 44864.



Quantitation Report File: 6194S74T

Data: 6194S74A.TI
06/13/89 13:37:00
Sample: CLP,6196,,89FC20S74,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	UNKNOWN (C_6H_{12})
3	UNKNOWN
4	CI10 2-BROMO-1-CHLOROPROPANE *INTERNAL STANDARD*
5	UNKNOWN
6	~~UNKNOWN~~ trichlorofluoromethane (75-69-4)

$$ISI = \frac{10\ ug/L}{287480} = 3.48 \times 10^{-5}$$

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	RIC	297	9:54	1	1.000	A BB	287480.	10.000	UG/L	5.20
2	RIC	455	15:10	5	0.793	A BB	6257740.	67.234		34.96
3	RIC	515	17:10	5	0.897	A BV	424104.	4.557		2.37
4	77	573	19:06	4	1.000	A BB	158238.	10.000	UG/L	5.20
5	RIC	574	19:08	5	1.000	A BB	9307360.	100.000		52.00
6	RIC	261	8:42	5	0.455	A BB	49616.	0.533		0.28

* There is a TIC that coelutes with the second internal standard therefore all TICs will be quantitated using the RIC value from the first internal standard. For the TIC (at 19:08) the second internal standard will be subtracted out.

1) $\frac{6257740}{1} \times ISI = 218\ ug/L$

2) $\frac{424104}{1} \times ISI = 15\ ug/L$

3) $9307360 - 158238 = 9149122$ = corrected RIC value for TIC

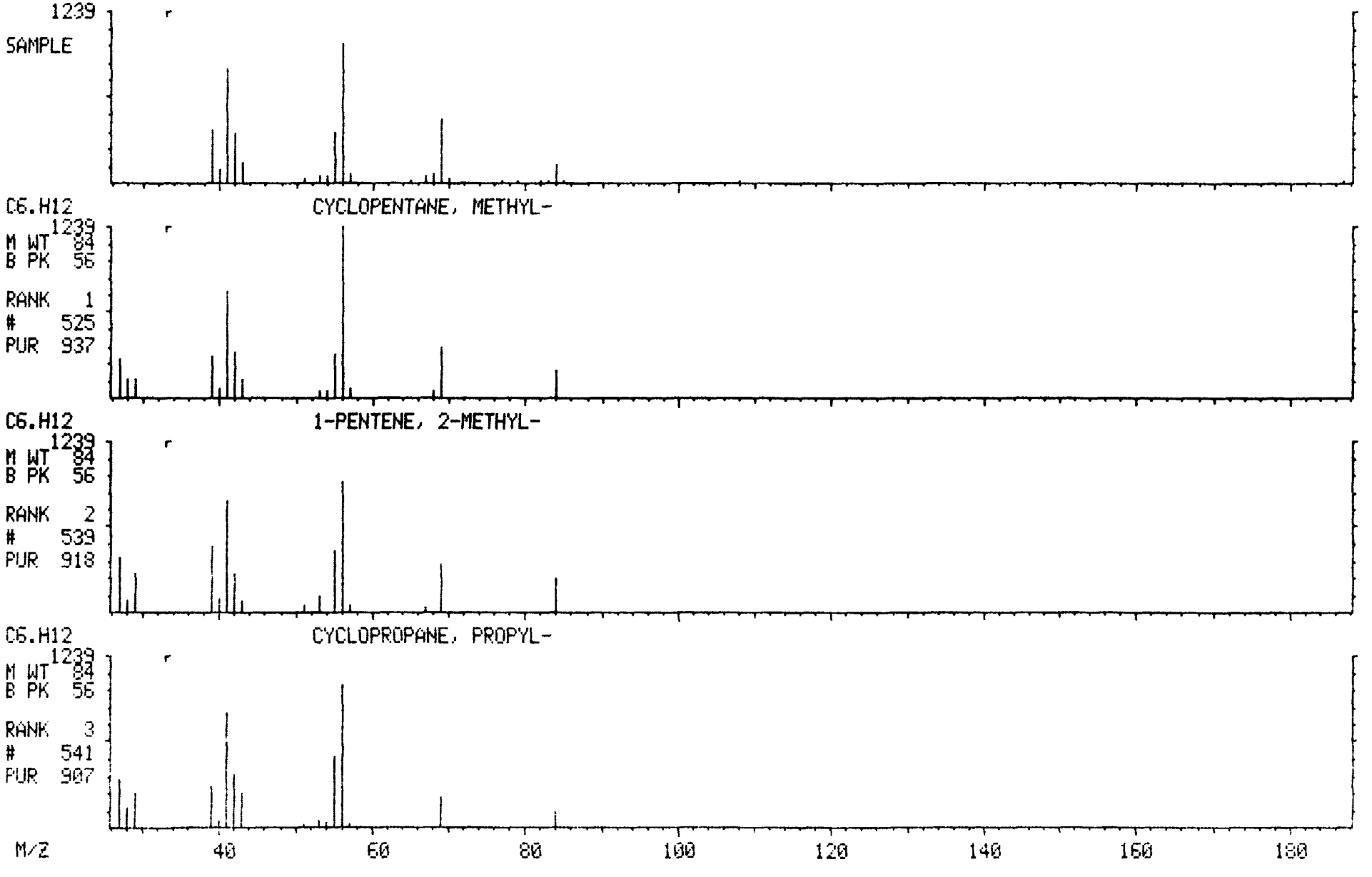
$\frac{9149122}{1} \times ISI = 318\ ug/L$

4) $\frac{49616}{1} \times ISI = 2\ ug/L$

MID LIBRARY SEARCH (LIBRARYNB)
06/13/89 13:37:00 + 15:10
SAMPLE: CLP,6196,,89FC20574,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 6194574A # 455
CALI: 6194574A # 3

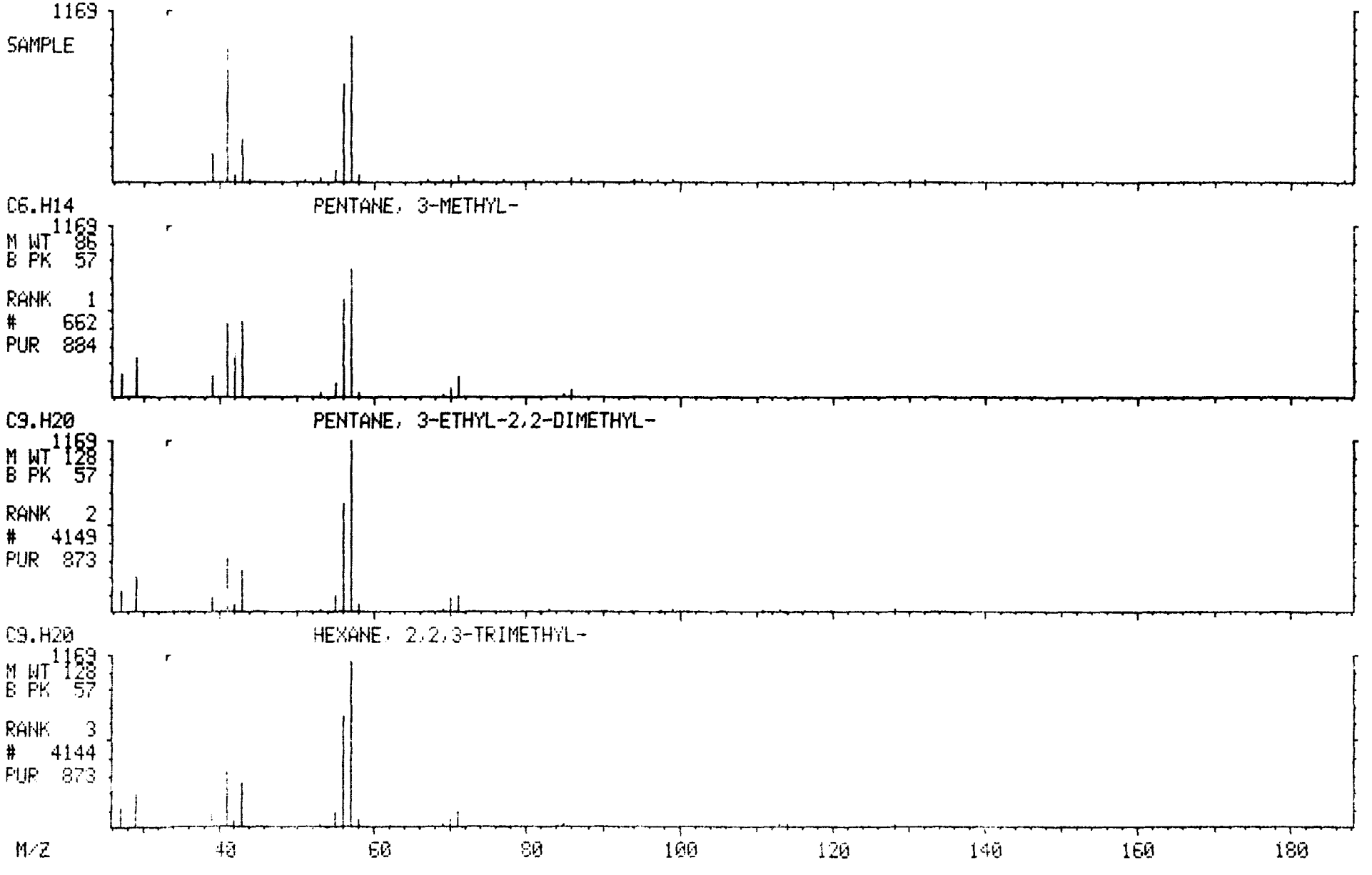
BASE M/Z: 56
RIC: 916480.



MID LIBRARY SEARCH (LIBRARYNB)
06/13/89 13:37:00 + 17:10
SAMPLE: CLP,6136,,89FC20574,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 6194574A # 515
CALI: 6194574A # 3

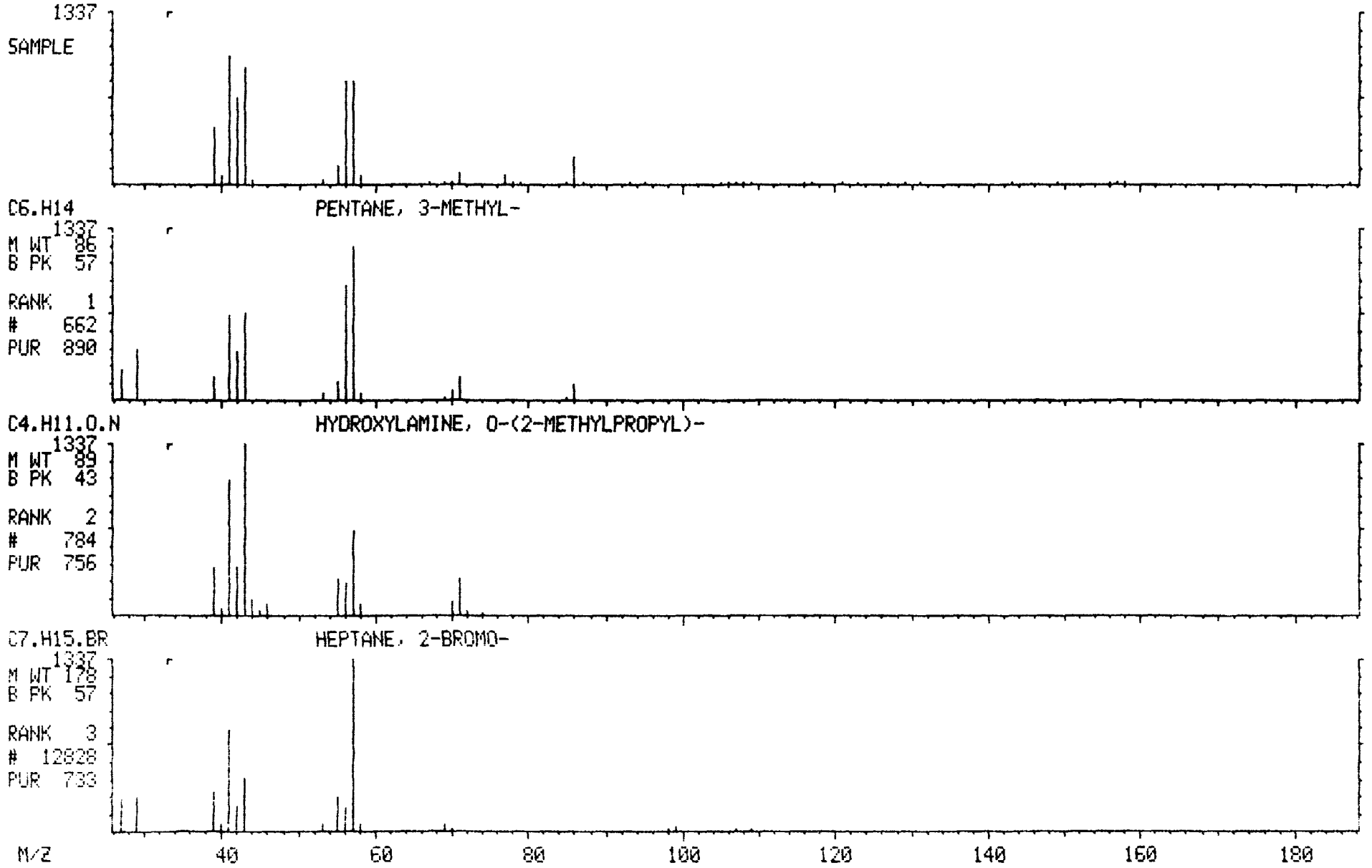
BASE M/Z: 57
RIC: 63104.



MID LIBRARY SEARCH (LIBRARYNB)
06/13/89 13:37:00 + 19:08
SAMPLE: CLP,6196,,89FC20574,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 6194574A # 574
CALI: 6194574A # 3

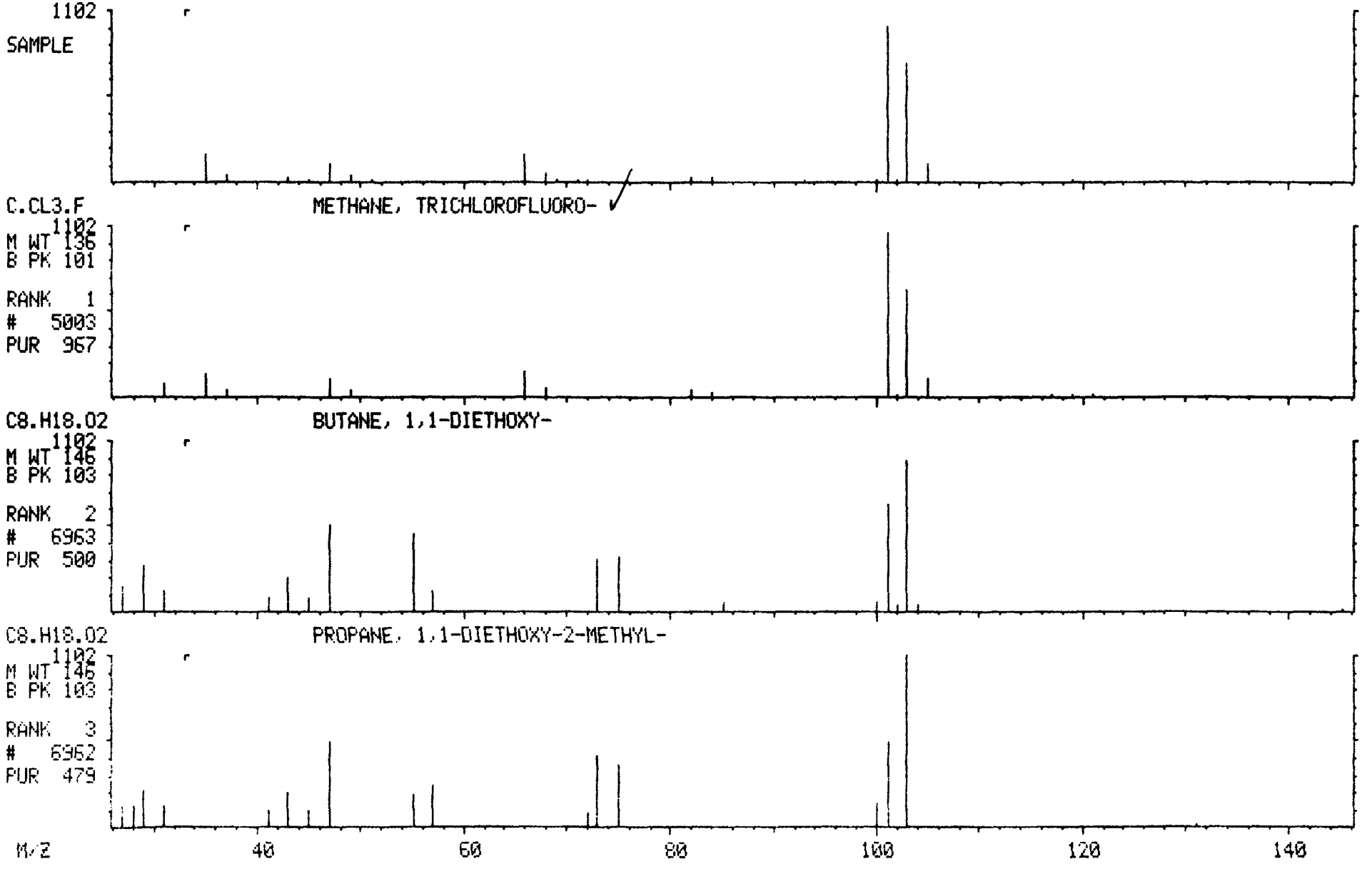
BASE M/Z: 41
RIC: 1265660.



MID LIBRARY SEARCH (LIBRARYNB)
06/13/89 13:37:00 + 8:42
SAMPLE: CLP,6196,,89FC20574,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 6194574A # 261
CALI: 6194574A # 3

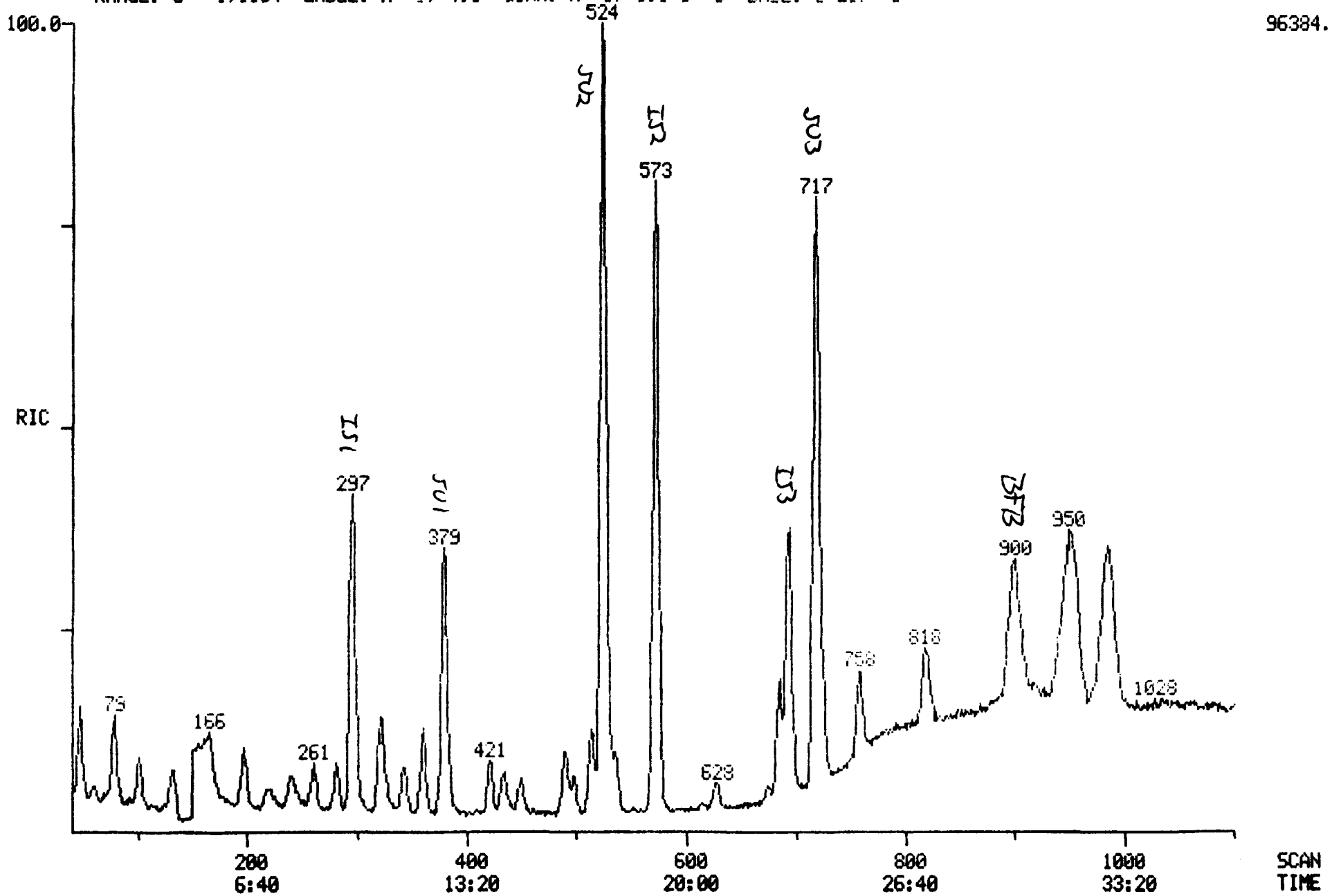
BASE M/Z: 101
RIC: 7144.



RIC
06/13/89 20:18:00
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
RANGE: G 1,1104 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: MDL0613 #627
CALI: MDL0613 #3

SCANS 40 TO 1100



Quantitation Report File: MDL0613

Data: MDL0613.TI
06/13/89 20:18:00
Sample: CLP,6195,,MDL0613,L,W,,V,EPA,
Conds.: 45'(3MIN) TO 220'@ 8'/MIN
Formula: Instrument: INCOS1 Weight: 1.000
Submitted by: CRL Analyst: DTK Acct. No.: TFA302

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*
4	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
5	CS10	BENZENE-D6	*SURROGATE*
6	CS05	TOLUENE-D8	*SURROGATE*
7	C010	CHLOROMETHANE	
8	C015	BROMOMETHANE	
9	C020	VINYL CHLORIDE	
10	C025	CHLOROETHANE	
11	C030	METHYLENE CHLORIDE	
12	C038	ACROLEIN	
13	C040	CARBON DISULFIDE	
14	C043	ACRYLONITRILE	
15	C045	1,1-DICHLOROETHENE	
16	C050	1,1-DICHLOROETHANE	
17	C053	1,2-DICHLOROETHENE (TOTAL)	
18	C060	CHLOROFORM	
19	C065	1,2-DICHLOROETHANE	
20	C110	2-BUTANONE	
21	C115	1,1,1-TRICHLOROETHANE	
22	C120	CARBON TETRACHLORIDE	
23	C125	VINYL ACETATE	
24	C130	BROMODICHLOROMETHANE	
25	C140	1,2-DICHLOROPROPANE	
26	C143	CIS-1,3-DICHLOROPROPENE	
27	C150	TRICHLOROETHENE	
28	C155	DIBROMOCHLOROMETHANE	
29	C160	1,1,2-TRICHLOROETHANE	
30	C165	BENZENE	
31	C172	TRANS-1,3-DICHLOROPROPENE	
32	C175	~~2-CHLOROETHYLVINYLETHER~~ ND	
33	C180	BROMOFORM DK 6/21/89	
34	C205	4-METHYL-2-PENTANONE	
35	C220	TETRACHLOROETHENE	
36	C225	1,1,2,2-TETRACHLOROETHANE	
37	C230	TOLUENE	
38	C235	CHLOROBENZENE	
39	C240	ETHYL BENZENE	
40	C260	M-XYLENE	
41	C270	O-&/OR P-XYLENE	
42	C035	ACETONE	
43	C210	2-HEXANONE	
44	C245	~~STYRENE~~ ND DK 6/21/89	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	297	9:54	1	1.000	A BB	30498.	10.000	UG/L	3.76
2	77	573	19:06	2	1.000	A BB	115006.	10.000	UG/L	3.76
3	55	693	23:06	3	1.000	A BB	72170.	10.000	UG/L	3.76
4	65	379	12:38	1	1.276	A BB	58477.	11.155	UG/L	4.19
5	84	524	17:28	2	0.914	A BB	248968.	9.955	UG/L	3.74
6	98	717	23:54	3	1.035	A BB	149688.	8.253	UG/L	3.10
7	50	48	1:36	1	0.162	A BB	20484.	2.590	UG/L	0.97
8	94	79	2:38	1	0.266	A BB	20699.	2.477	UG/L	0.93
9	62	101	3:22	1	0.340	A BB	18129.	2.202	UG/L	0.83
10	64	132	4:24	1	0.444	A BB	13951.	2.444	UG/L	0.92
11	84	197	6:34	1	0.663	A BB	9413.	1.435	UG/L	0.54
12	56	220	7:20	1	0.741	A BB	505.	16.991	UG/L	6.38
13	76	245	8:10	1	0.825	A BB	552.	2.502	UG/L	0.94
14	53	240	8:00	1	0.808	A BB	11840.	54.705	UG/L	20.54
15	96	281	9:22	1	0.946	A BB	5763.	0.790	UG/L	0.30
16	63	320	10:40	1	1.077	A BB	15140.	1.043	UG/L	0.39
17	96	343	11:26	1	1.155	A BB	5786.	0.828	UG/L	0.31
18	83	360	12:00	1	1.212	A BB	16408.	1.120	UG/L	0.42
19	62	383	12:46	1	1.290	A BB	5837.	1.109	UG/L	0.42
20	72	379	12:38	2	0.661	A BB	2019.	18.488	UG/L	6.94
21	97	421	14:02	2	0.735	A BB	11195.	0.810	UG/L	0.30
22	117	433	14:26	2	0.756	A BB	7066.	0.530	UG/L	0.20
23	43	437	14:34	2	0.763	A BB	2653.	0.692	UG/L	0.26
24	83	449	14:58	2	0.784	A BB	7254.	0.816	UG/L	0.31
25	63	489	16:18	2	0.853	A BB	8042.	1.035	UG/L	0.39
26	75	498	16:36	2	0.869	A BB	7170.	0.907	UG/L	0.34
27	130	513	17:06	2	0.895	A BB	10353.	0.856	UG/L	0.32
28	129	533	17:46	2	0.930	A BB	3263.	0.636	UG/L	0.24
29	97	537	17:54	2	0.937	A BB	3160.	0.889	UG/L	0.33
30	78	529	17:38	2	0.923	A BB	23365.	1.059	UG/L	0.40
31	75	536	17:52	2	0.935	A VB	3018.	0.645	UG/L	0.24
~~32~~	~~63~~	~~573~~	~~19:06~~	~~2~~	~~1.000~~	~~A BB~~	~~2958.~~	~~2.099~~	~~UG/L~~	~~0.79~~ OK 6/21/89
33	173	616	20:32	2	1.075	A BB	1048.	0.524	UG/L	0.20
34	43	673	22:26	3	0.971	A BB	5514.	3.792	UG/L	1.42
35	164	685	22:50	3	0.988	A BB	9906.	0.719	UG/L	0.27
36	83	683	22:46	3	0.986	A BB	2742.	0.901	UG/L	0.34
37	92	722	24:04	3	1.042	A BB	16279.	0.863	UG/L	0.32
38	112	758	25:16	3	1.094	A BB	19376.	0.850	UG/L	0.32
39	106	819	27:18	3	1.182	A BB	8745.	0.714	UG/L	0.27
40	106	953	31:46	3	1.375	A BB	28160.	1.836	UG/L	0.69
41	106	985	32:50	3	1.421	A BB	36111.	2.405	UG/L	0.90
42	43	221	7:22	1	0.744	A BB	16686.	69.254	UG/L	26.01
43	43	628	20:56	3	0.906	A BB	8064.	3.956	UG/L	1.49
~~44~~	~~104~~	~~944~~	~~31:28~~	~~3~~	~~1.362~~	~~A BB~~	~~31365.~~	~~1.419~~	~~UG/L~~	~~0.53~~ OK 6/21/89

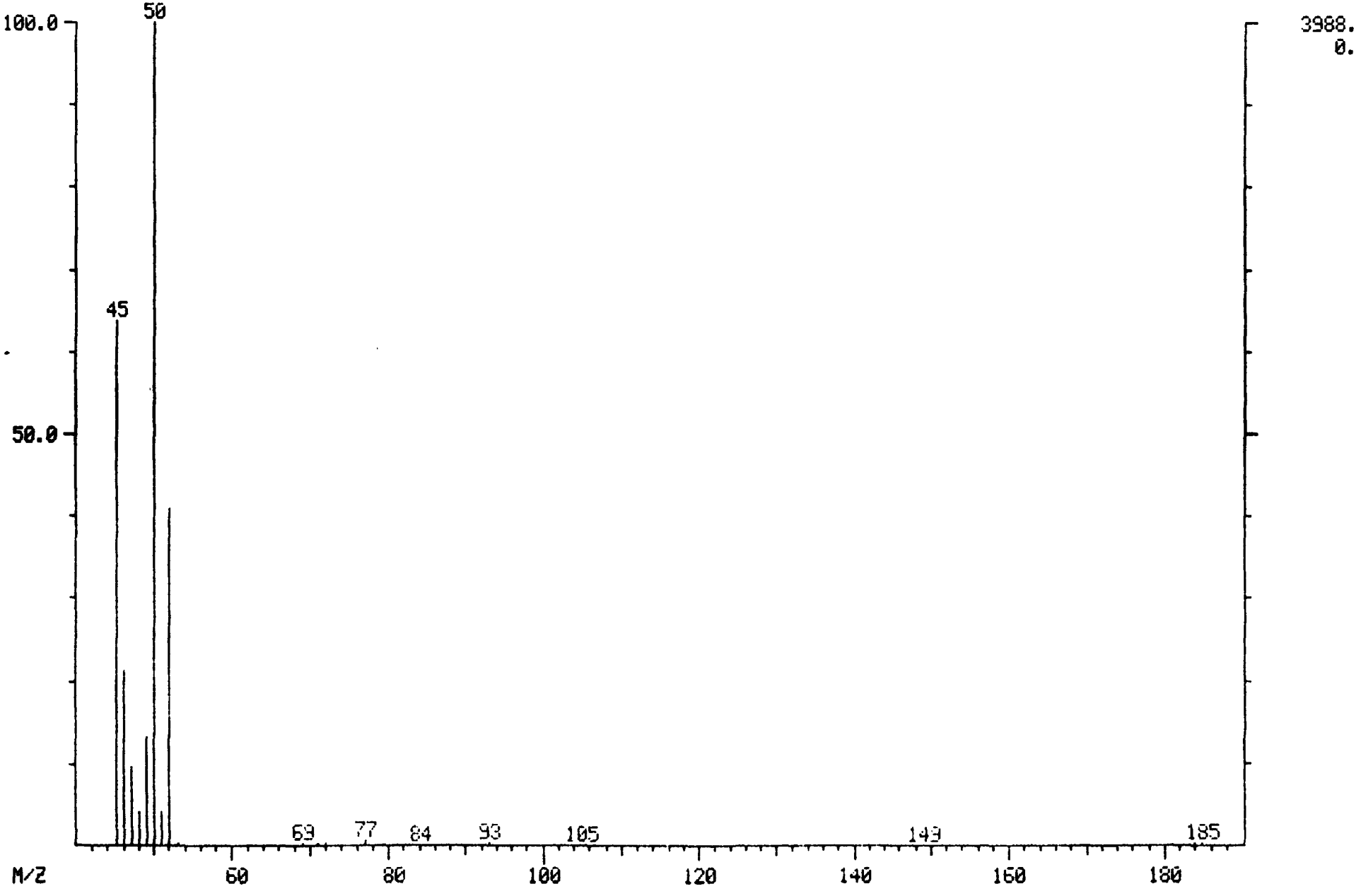
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	11.16	10.00	1.917	1.719	1.12
5	17:26	1.00	0.917	1.00	9.96	10.00	2.165	2.175	1.00
6	23:52	1.00	1.038	1.00	8.25	10.00	2.074	2.513	0.83
7	1:38	0.98	0.181	0.90	2.59	20.00	0.336	2.594	0.13
8	2:36	1.01	0.285	0.93	2.48	20.00	0.339	2.740	0.12
9	3:22	1.00	0.361	0.94	2.20	20.00	0.297	2.700	0.11
10	4:22	1.01	0.462	0.96	2.44	20.00	0.229	1.872	0.12

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	6:30	1.01	0.681	0.97	1.44	15.00	0.206	2.150	0.10
12	7:06	1.03	0.757	0.98	16.99	375.00	0.000	0.010	0.05
13	8:06	1.01	0.833	0.99	2.50	12.50	0.014	0.072	0.20
14	7:48	1.03	0.826	0.98	54.70	375.00	0.010	0.071	0.15
15	9:22	1.00	0.955	0.99	0.79	15.00	0.126	2.390	0.05
16	10:40	1.00	1.090	0.99	1.04	15.00	0.331	4.760	0.07
17	11:24	1.00	1.170	0.99	0.83	15.00	0.126	2.290	0.06
18	12:02	1.00	1.229	0.99	1.12	15.00	0.359	4.805	0.07
19	12:44	1.00	1.312	0.98	1.11	15.00	0.128	1.726	0.07
20	12:36	1.00	0.664	1.00	18.49	125.00	0.001	0.009	0.15
21	14:02	1.00	0.731	1.00	0.81	15.00	0.065	1.202	0.05
22	14:26	1.00	0.752	1.00	0.53	15.00	0.041	1.159	0.04
23	14:34	1.00	0.764	1.00	0.69	37.50	0.006	0.334	0.02
24	15.00	1.00	0.780	1.00	0.82	15.00	0.042	0.773	0.05
25	16:20	1.00	0.854	1.00	1.04	15.00	0.047	0.675	0.07
26	16:34	1.00	0.868	1.00	0.91	18.00	0.035	0.687	0.05
27	17:06	1.00	0.898	1.00	0.86	15.00	0.060	1.051	0.06
28	17:48	1.00	0.930	1.00	0.64	15.00	0.019	0.446	0.04
29	17:54	1.00	0.937	1.00	0.89	15.00	0.018	0.309	0.06
30	17:36	1.00	0.924	1.00	1.06	15.00	0.135	1.919	0.07
31	17:52	1.00	0.937	1.00	0.64	12.00	0.022	0.407	0.05
32	18:56	1.01	0.995	1.01	2.10	15.00	0.017	0.123	0.14
33	20:30	1.00	1.076	1.00	0.52	15.00	0.006	0.174	0.03
34	22:28	1.00	0.974	1.00	3.79	25.00	0.031	0.202	0.15
35	22:48	1.00	0.990	1.00	0.72	15.00	0.092	1.909	0.05
36	22:48	1.00	0.988	1.00	0.90	15.00	0.025	0.422	0.06
37	24:04	1.00	1.046	1.00	0.86	15.00	0.150	2.613	0.06
38	25:14	1.00	1.097	1.00	0.85	15.00	0.179	3.159	0.06
39	27:16	1.00	1.186	1.00	0.71	15.00	0.081	1.697	0.05
40	31:42	1.00	1.378	1.00	1.84	30.00	0.130	2.126	0.06
41	32:44	1.00	1.425	1.00	2.40	37.60	0.133	2.081	0.06
42	7:06	1.04	0.757	0.98	69.25	375.00	0.015	0.079	0.18
43	20:56	1.00	0.907	1.00	3.96	25.00	0.045	0.282	0.16
44	31:24	1.00	1.367	1.00	1.42	12.50	0.348	3.063	0.11

MASS SPECTRUM
06/13/89 20:18:00 + 1:36
SAMPLE: CLP,6195,,MDL0613,L,W,,U,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 45 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #48
CALI: MDL0613 #3

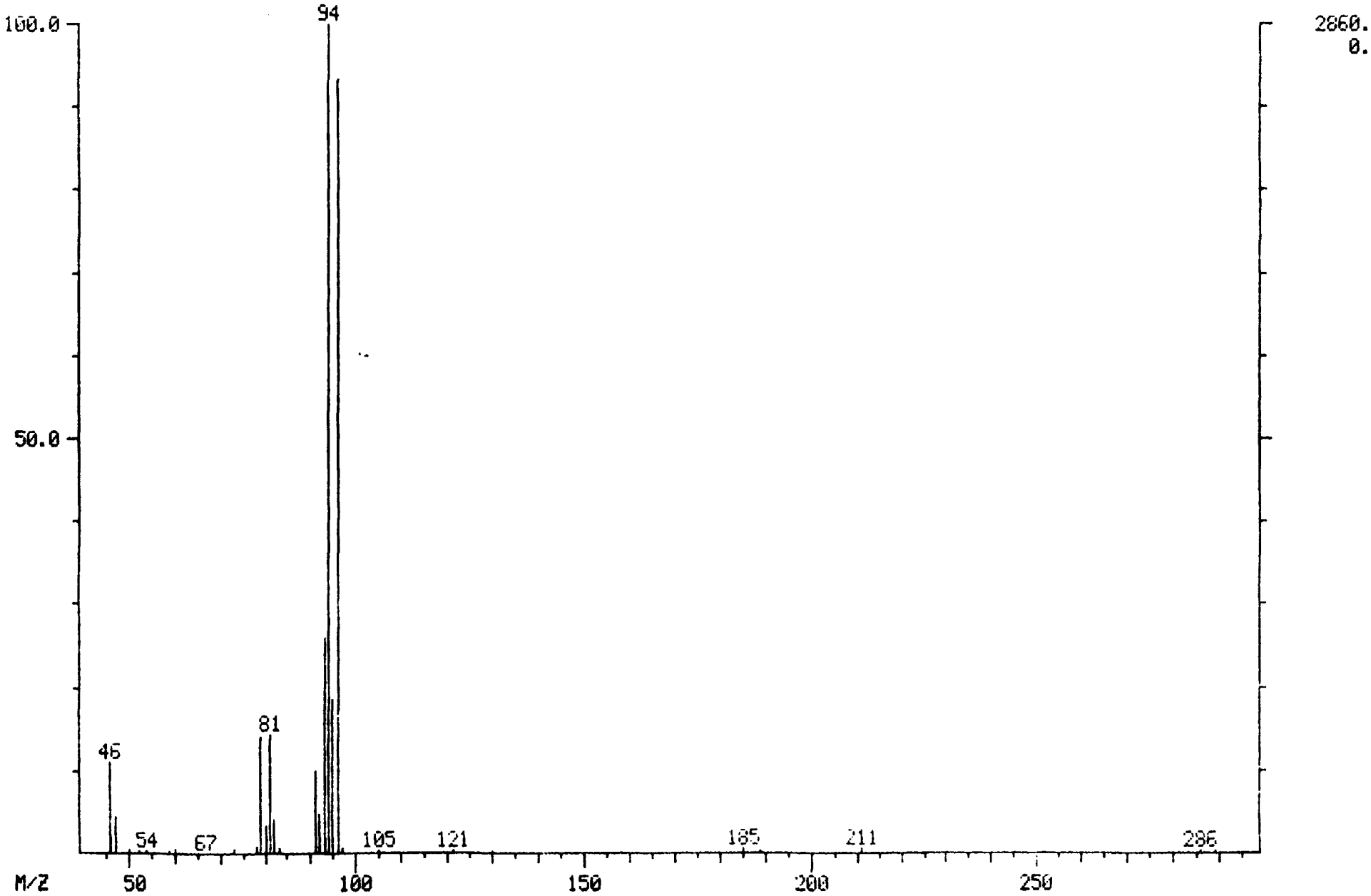
BASE M/Z: 50
RIC: 10352.



MASS SPECTRUM
06/13/88 20:18:00 + 2:38
SAMPLE: CLP,6195,,MDL0613,L.W.,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 45 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #79
CALI: MDL0613 #3

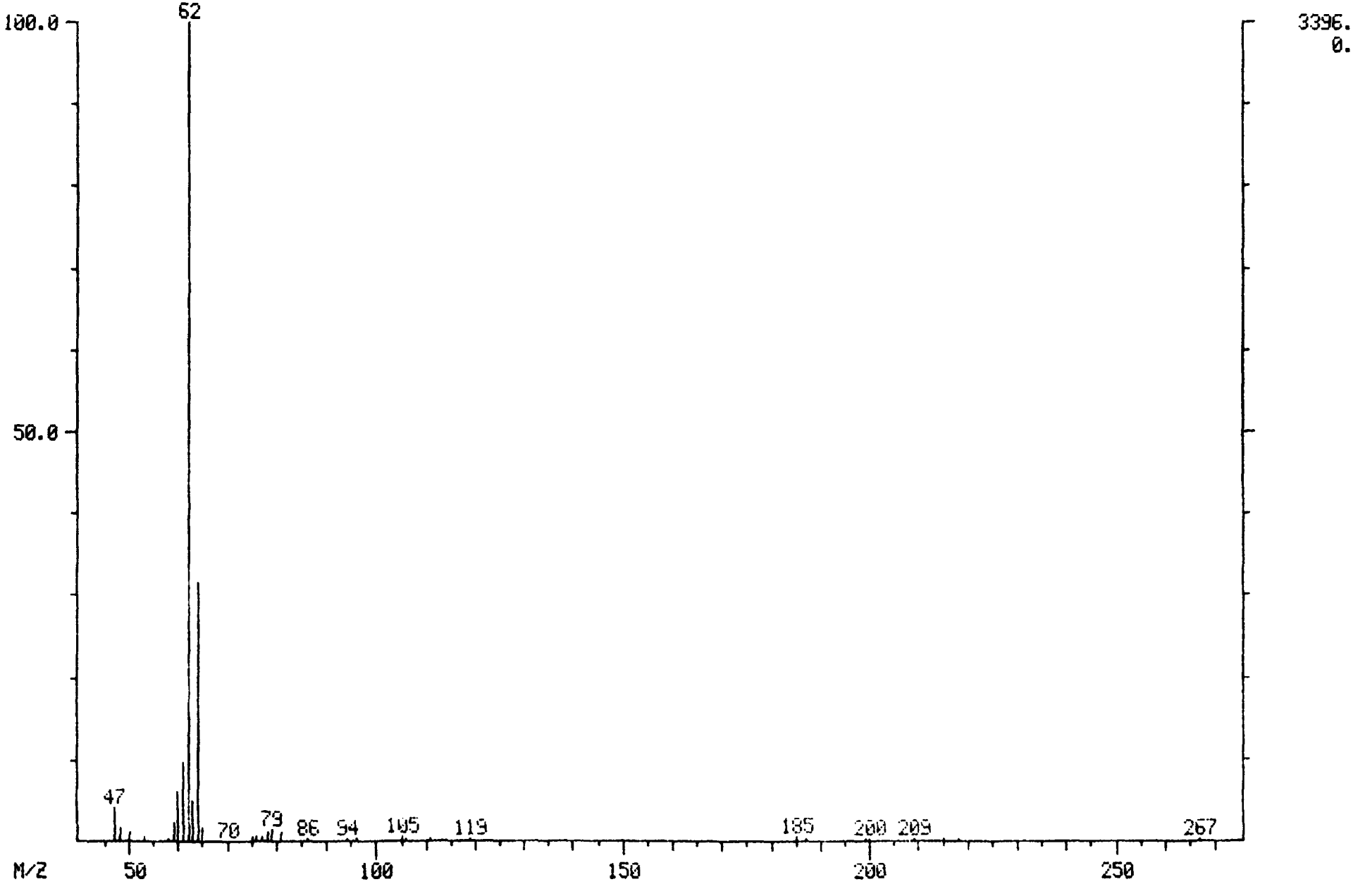
BASE M/Z: 94
RIC: 8912.



MASS SPECTRUM
06/13/89 20:18:00 + 3:22
SAMPLE: CLP,6135,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 47 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #101
CALI: MDL0613 #3

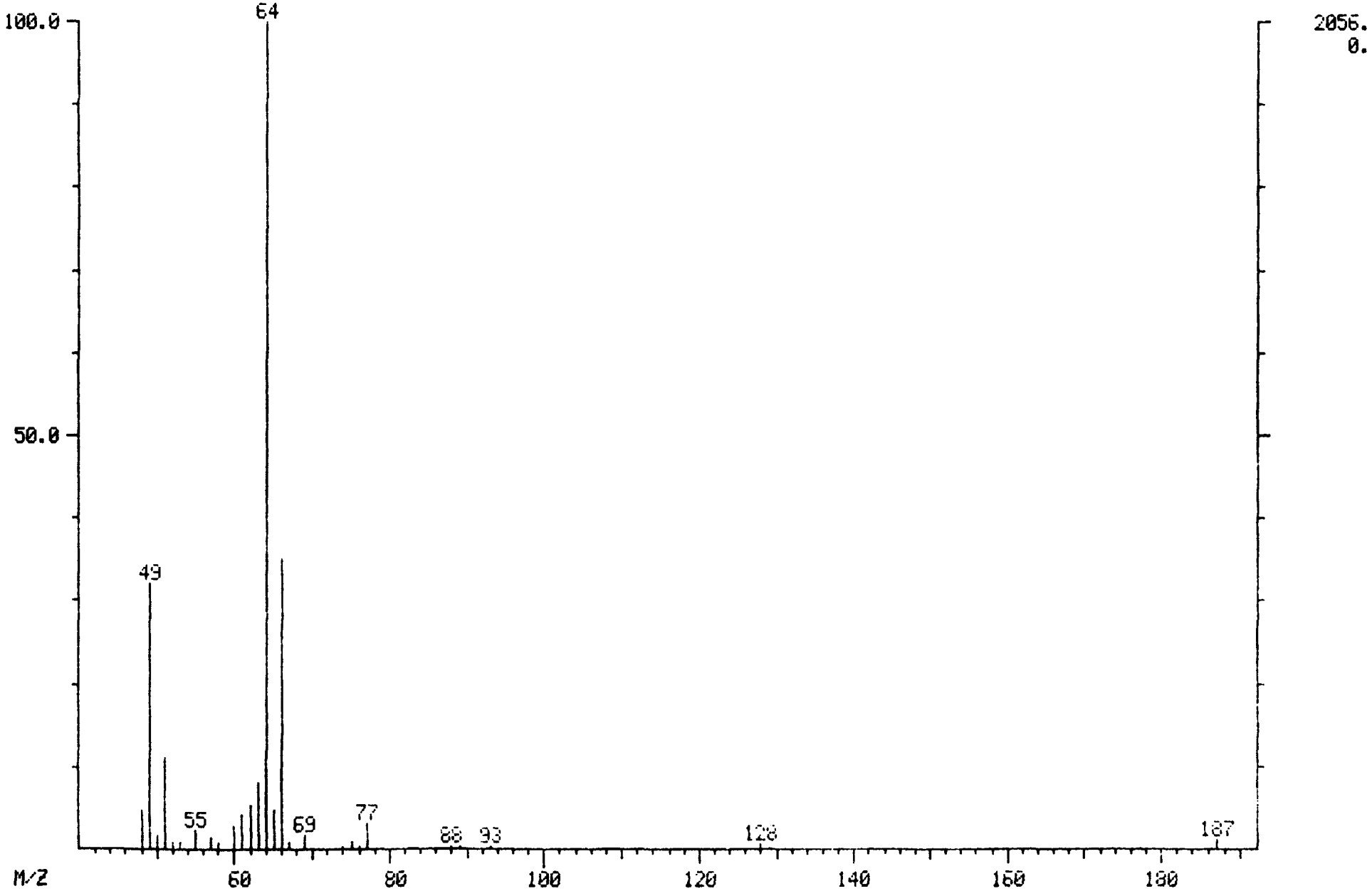
BASE M/Z: 62
RIC: 5888.



MASS SPECTRUM
06/13/89 20:18:00 + 4:24
SAMPLE: CLP,6135,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 55 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #132
CALI: MDL0613 #3

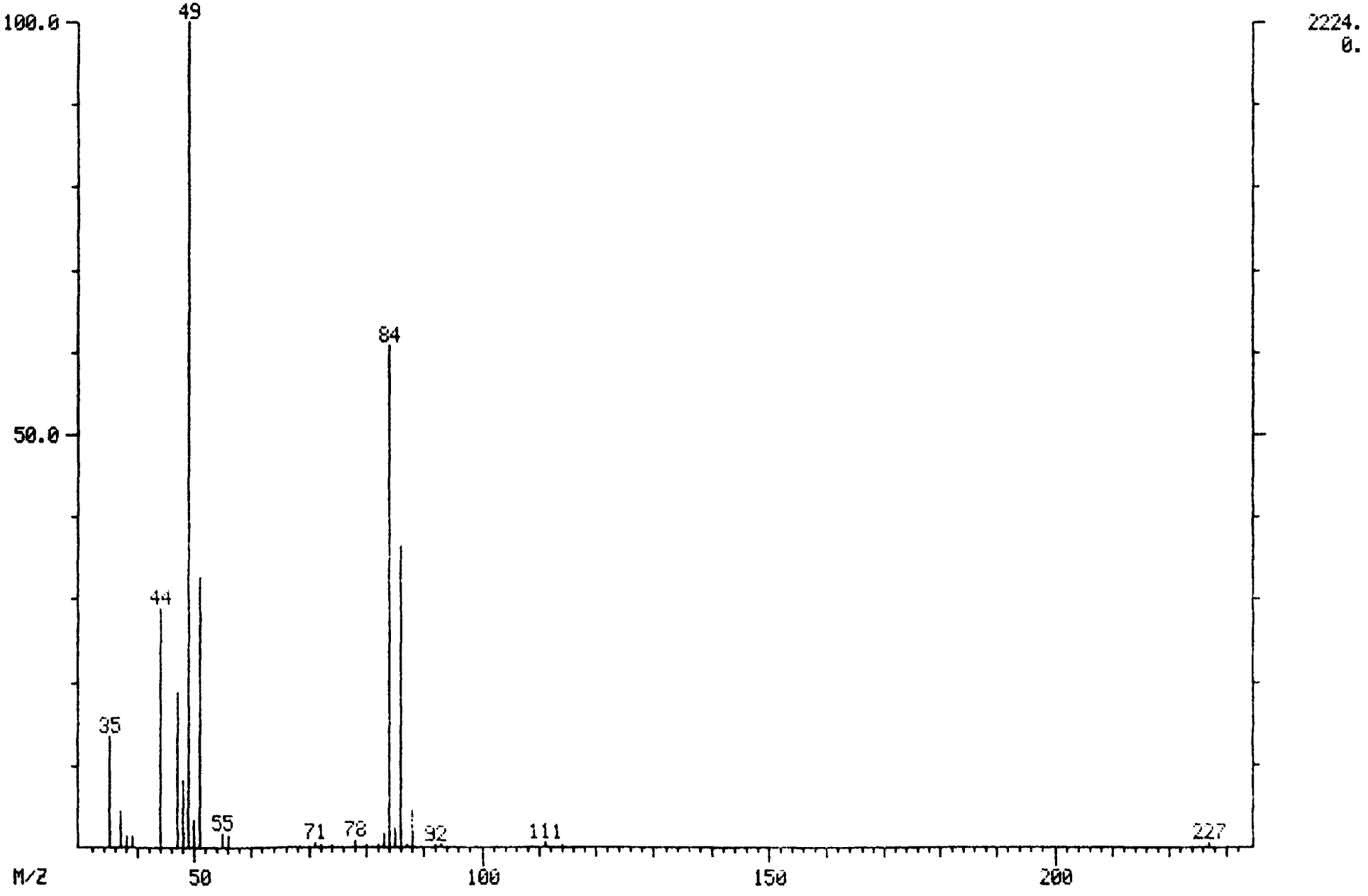
BASE M/Z: 64
RIC: 4656.



MASS SPECTRUM
06/13/89 20:18:00 + 6:34
SAMPLE: CLP,6135,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 72 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #197
CALI: MDL0613 #3

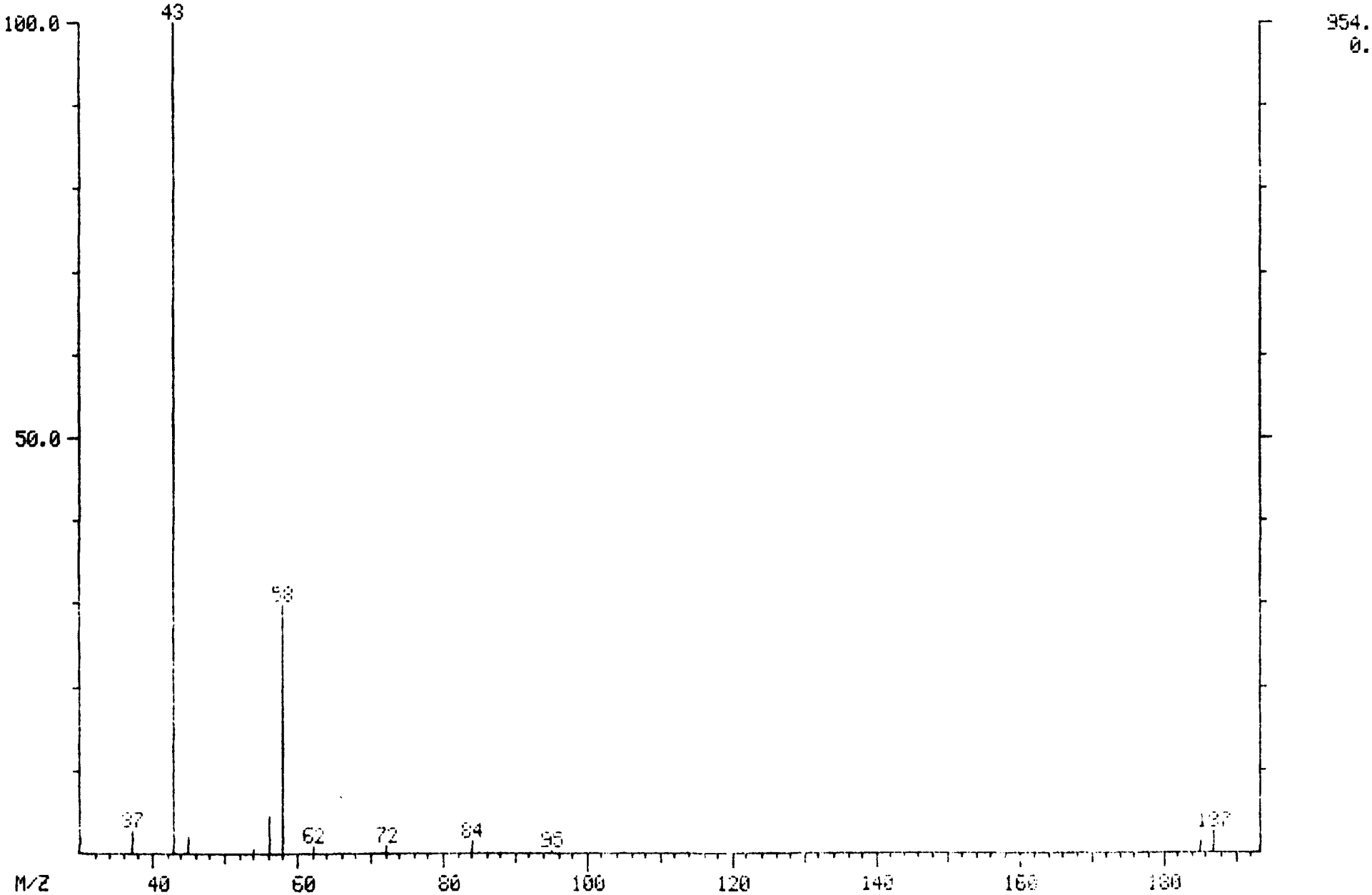
BASE M/Z: 49
RIC: 7256.



MASS SPECTRUM
06/13/89 20:18:00 + 7:20
SAMPLE: CLP,6195,,MOL0613.L,W,,V.EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 79 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MOL0613 #220
CALI: MOL0613 #3

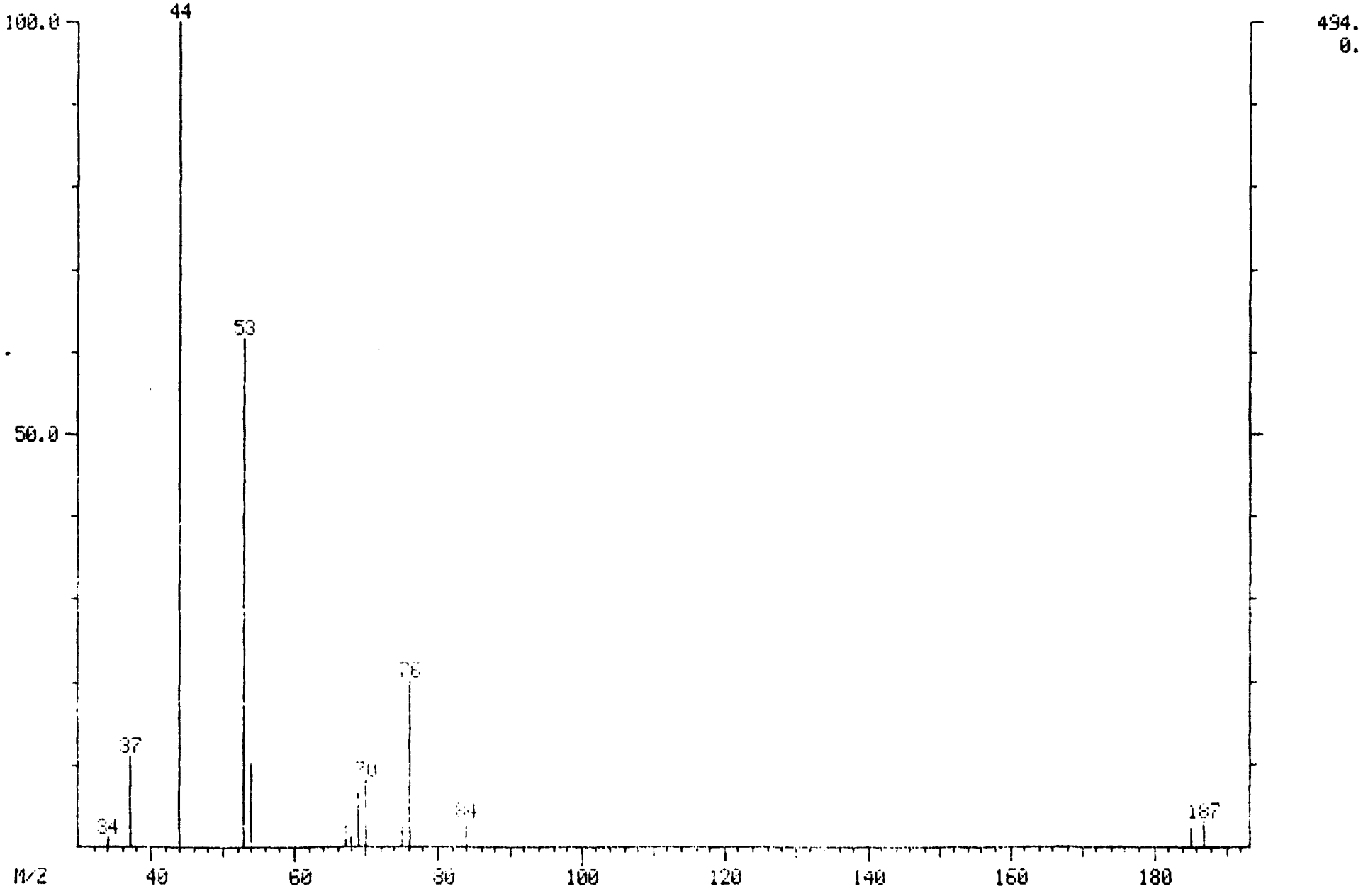
BASE M/Z: 43
RIC: 1400.



MASS SPECTRUM
06/13/88 20:18:00 + 8:10
SAMPLE: CLP/6195,,MDL0613,L.N.,0.EPA.
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 85 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #245
CALI: MDL0613 #3

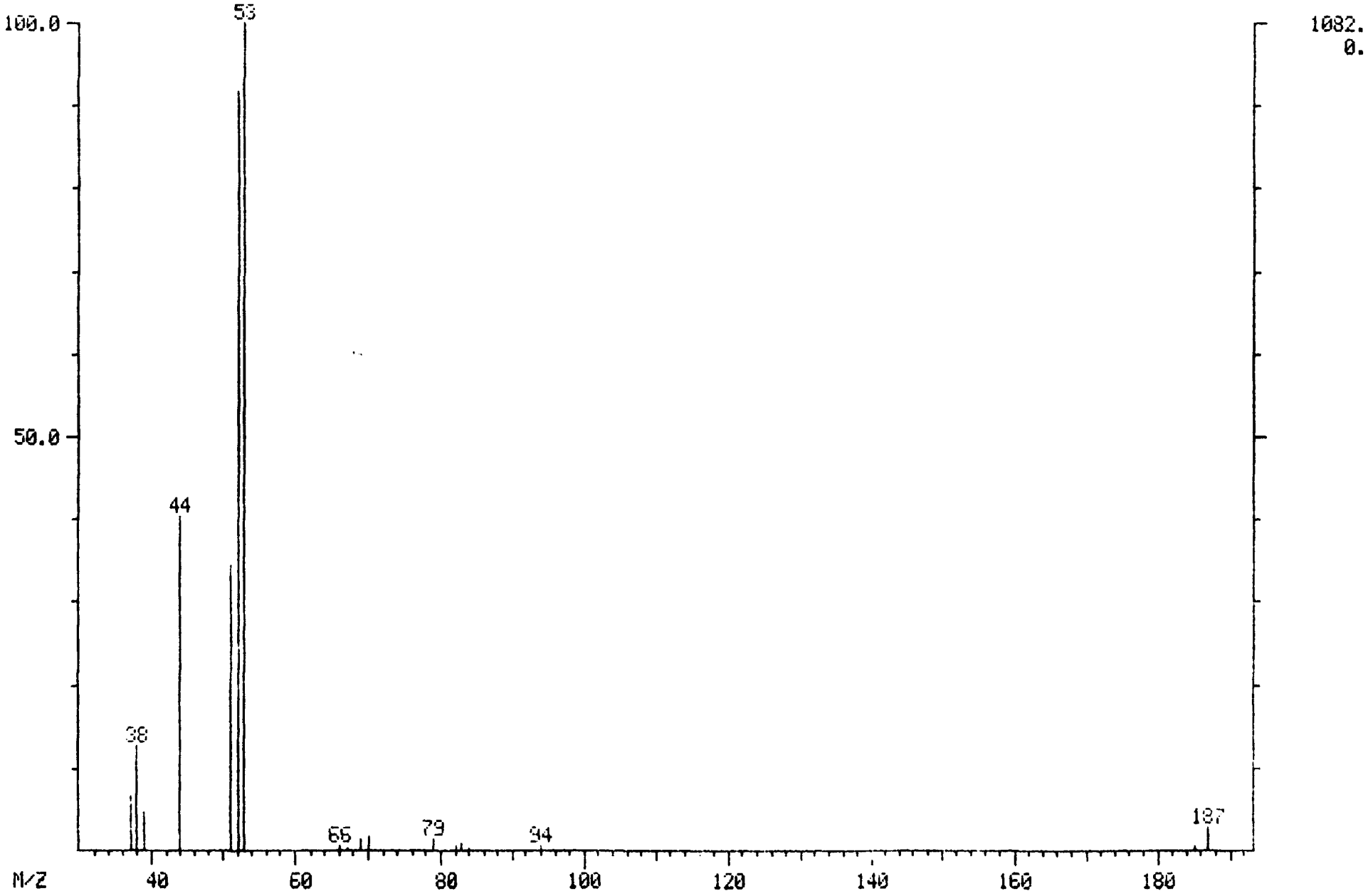
BASE M/Z: 44
RIC: 1152.



MASS SPECTRUM
06/13/89 20:18:00 + 8:00
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #240
CALI: MDL0613 #3

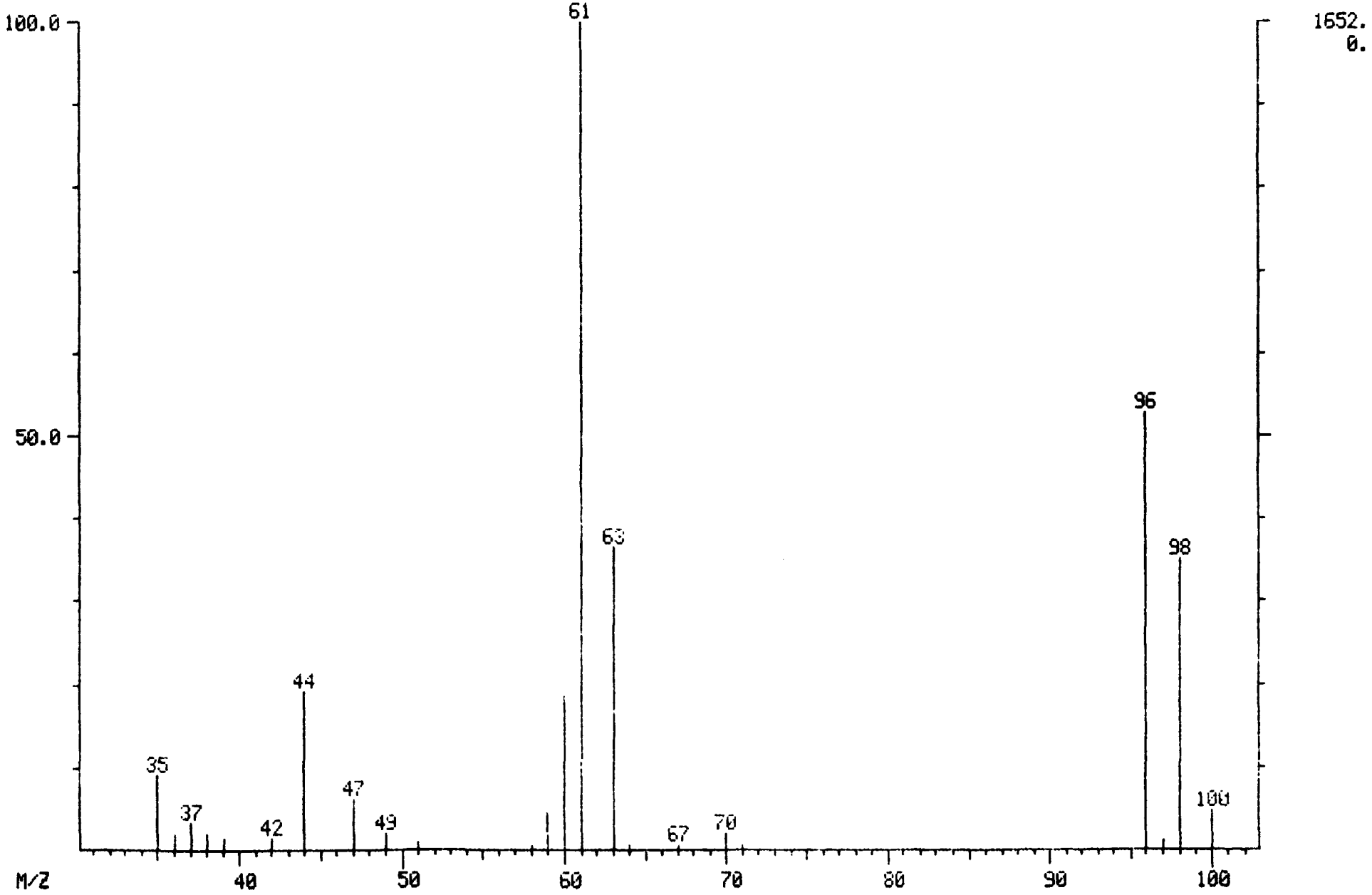
BASE M/Z: 53
RIC: 3268.



MASS SPECTRUM
06/13/89 20:18:00 + 9:22
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 95 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #281
CALI: MDL0613 #3

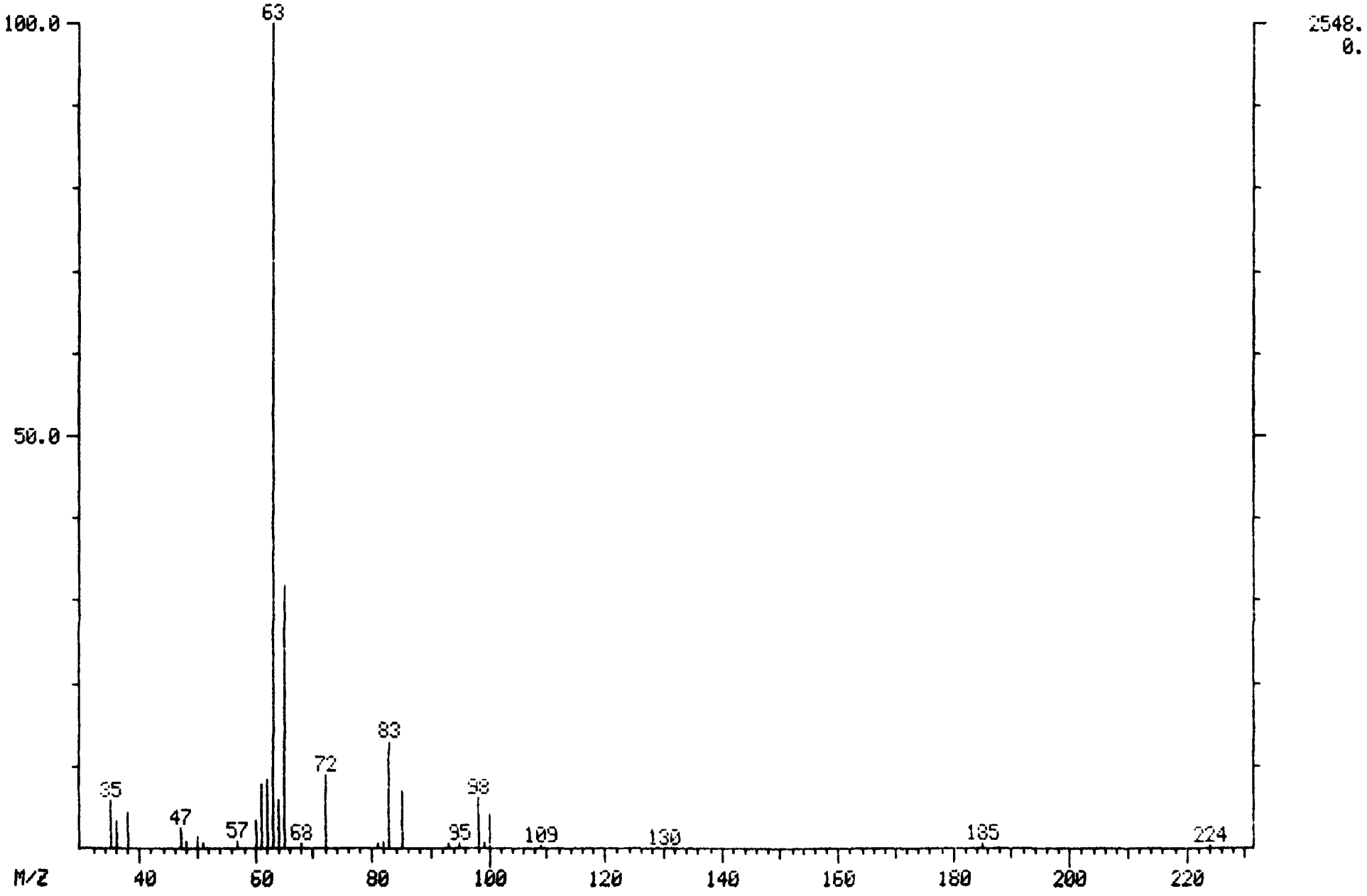
BASE M/Z: 61
RIC: 5032.



MASS SPECTRUM
06/13/89 20:18:00 + 10:40
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 105 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #320
CALI: MDL0613 #3

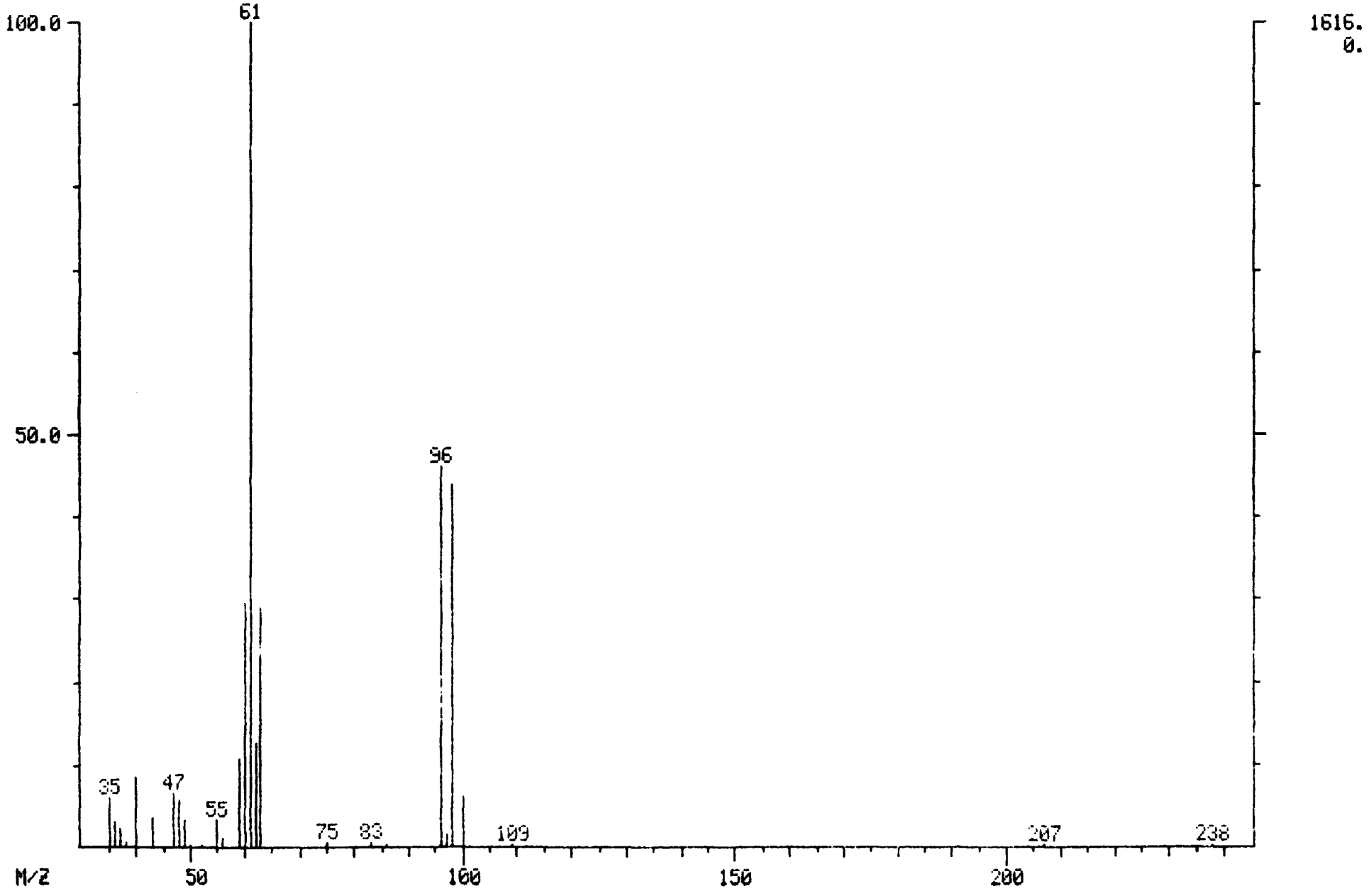
BASE M/Z: 63
RIC: 5632.



MASS SPECTRUM
06/13/89 20:18:00 + 11:26
SAMPLE: CLP,6195,,MDL0613,L.W.,V.EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 111 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #343
CALI: MDL0613 #3

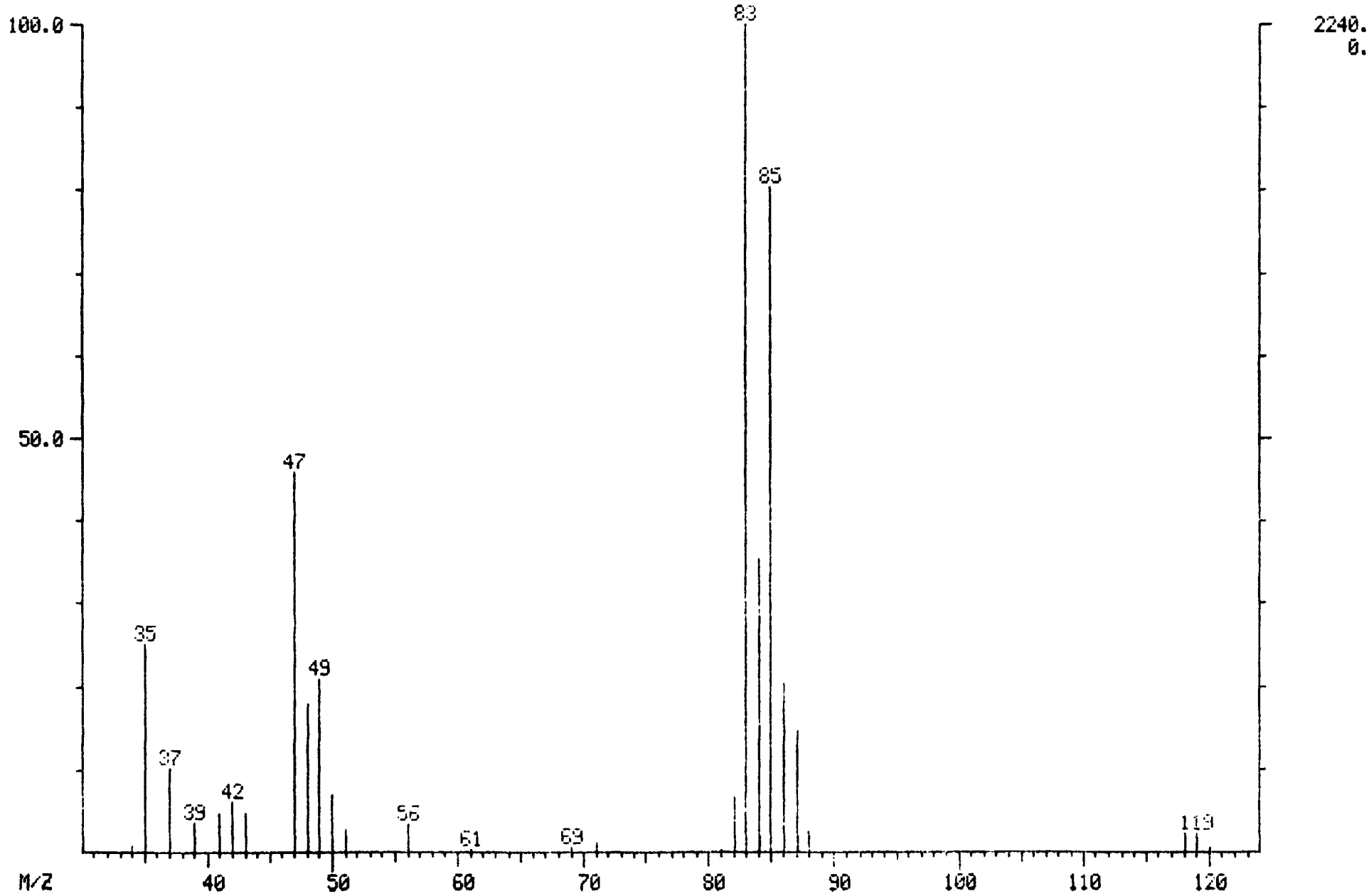
BASE M/Z: 61
RIC: 5304.



MASS SPECTRUM
06/13/89 20:18:00 + 12:00
SAMPLE: CLP,6195,,MDL0613,L,W,,U,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 116 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #3E0
CALI: MDL0613 #3

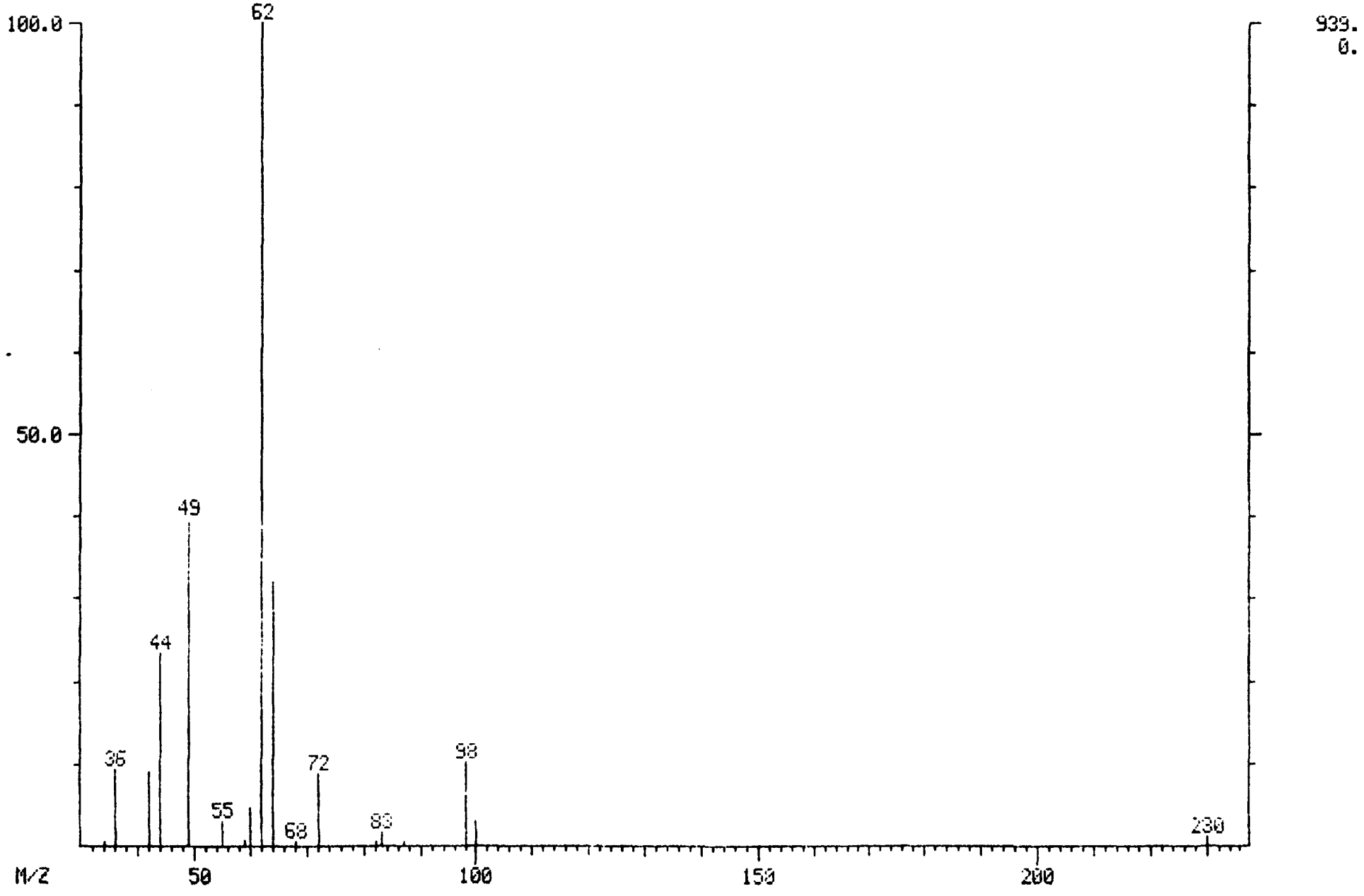
BASE M/Z: 83
RIC: 9424.



MASS SPECTRUM
06/13/89 20:18:00 + 12:46
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 122 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #383
CALI: MDL0613 #3

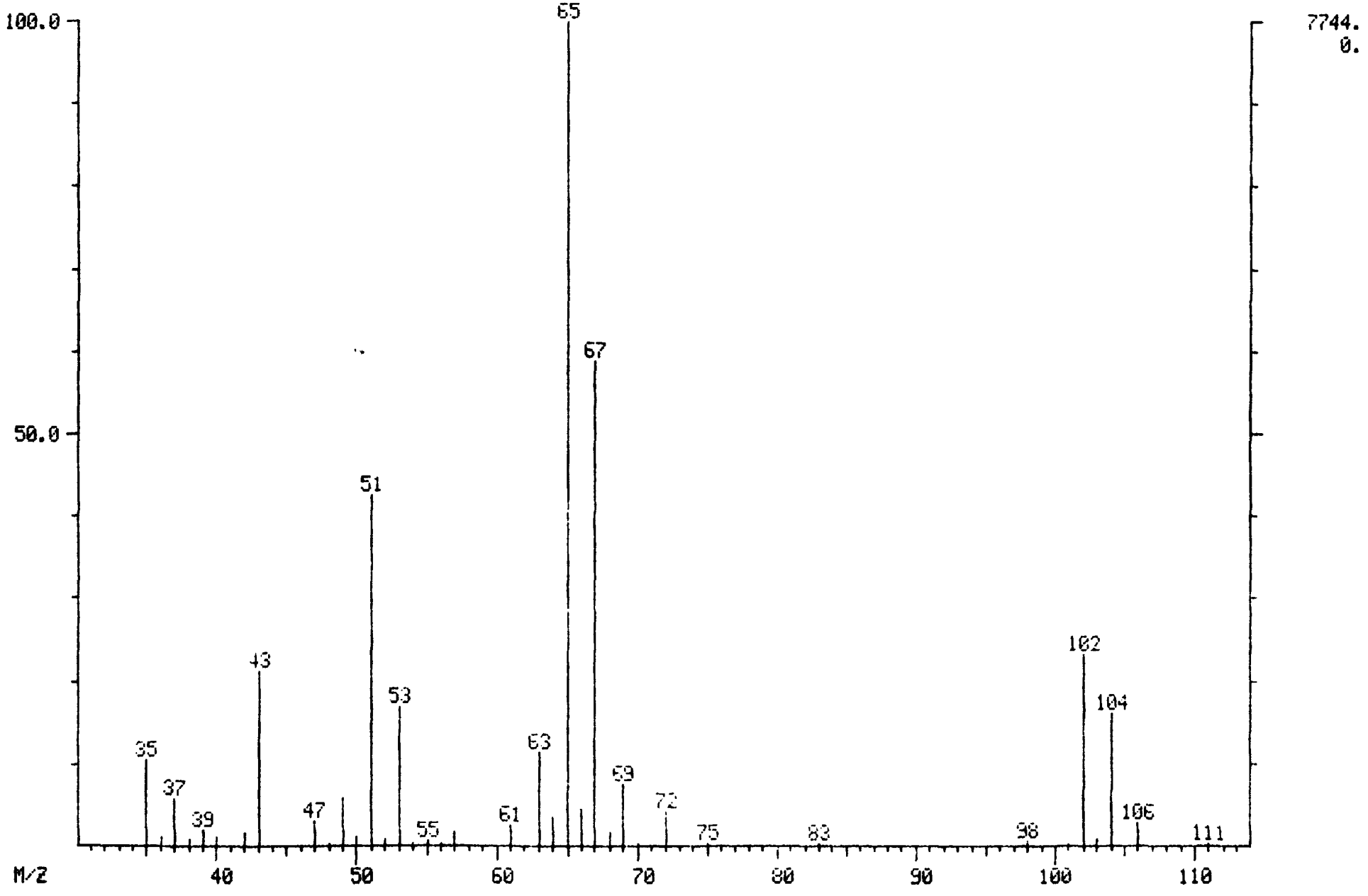
BASE M/Z: 62
RIC: 2344.



MASS SPECTRUM
06/13/89 20:18:00 + 12:38
SAMPLE: CLP,6195.,MDL0613.L,W.,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 121 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #379
CALI: MDL0613 #3

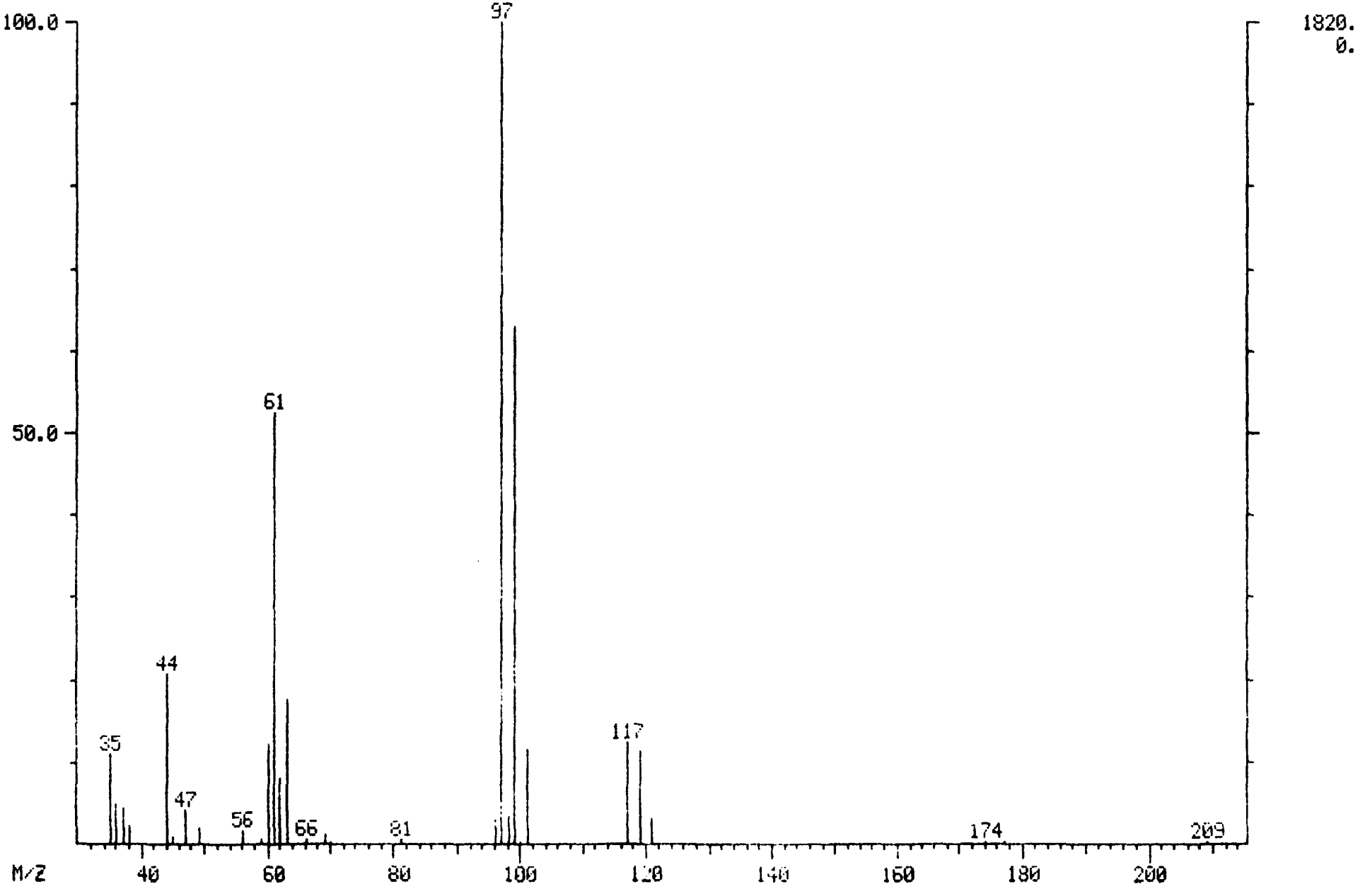
BASE M/Z: 65
RIC: 27552.



MASS SPECTRUM
06/13/89 20:18:00 + 14:02
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 132 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #421
CALI: MDL0613 #3

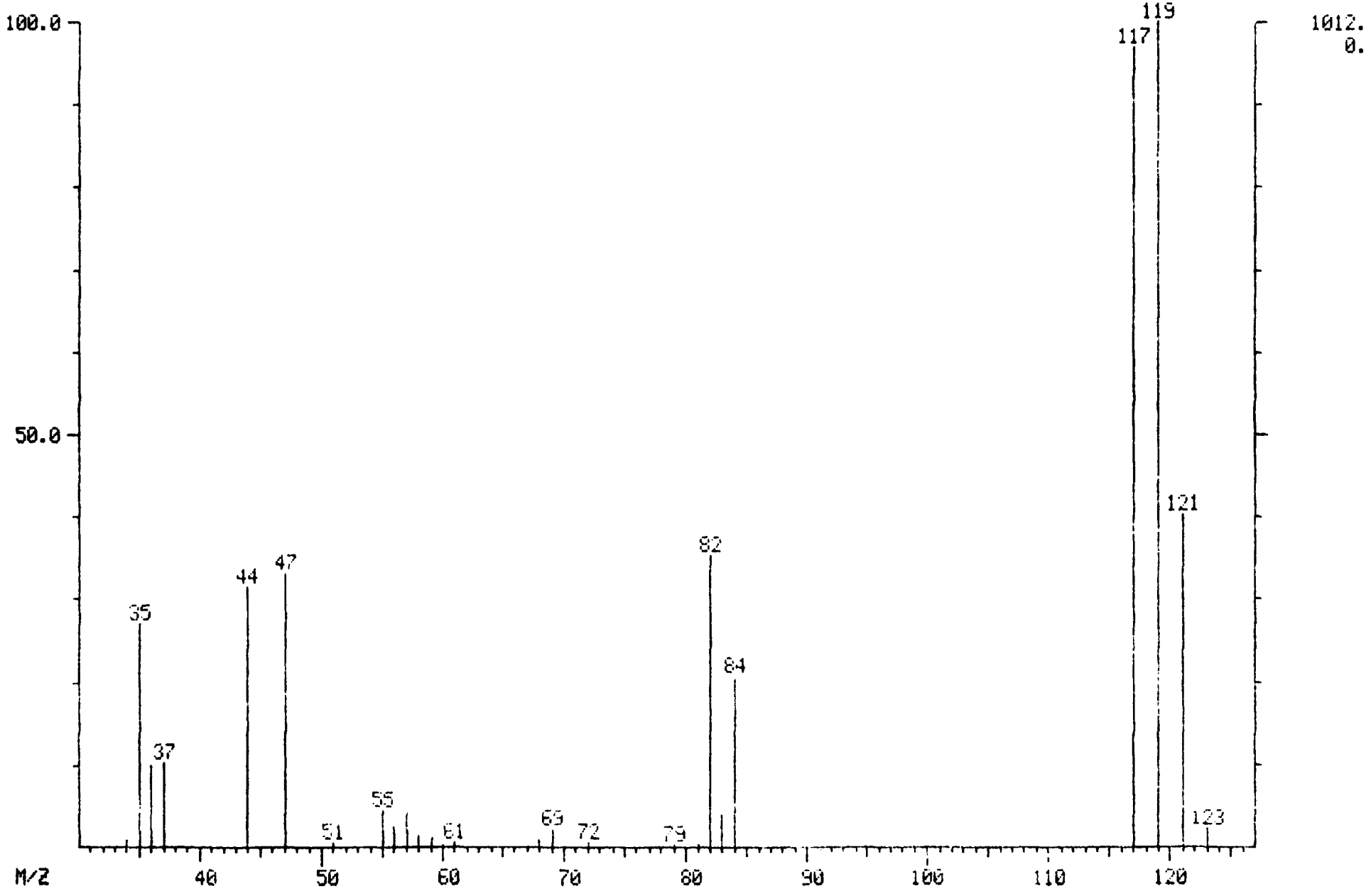
BASE M/Z: 97
RIC: 6456.



MASS SPECTRUM
06/13/89 20:18:00 + 14:26
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 135 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #433
CALI: MDL0613 #3

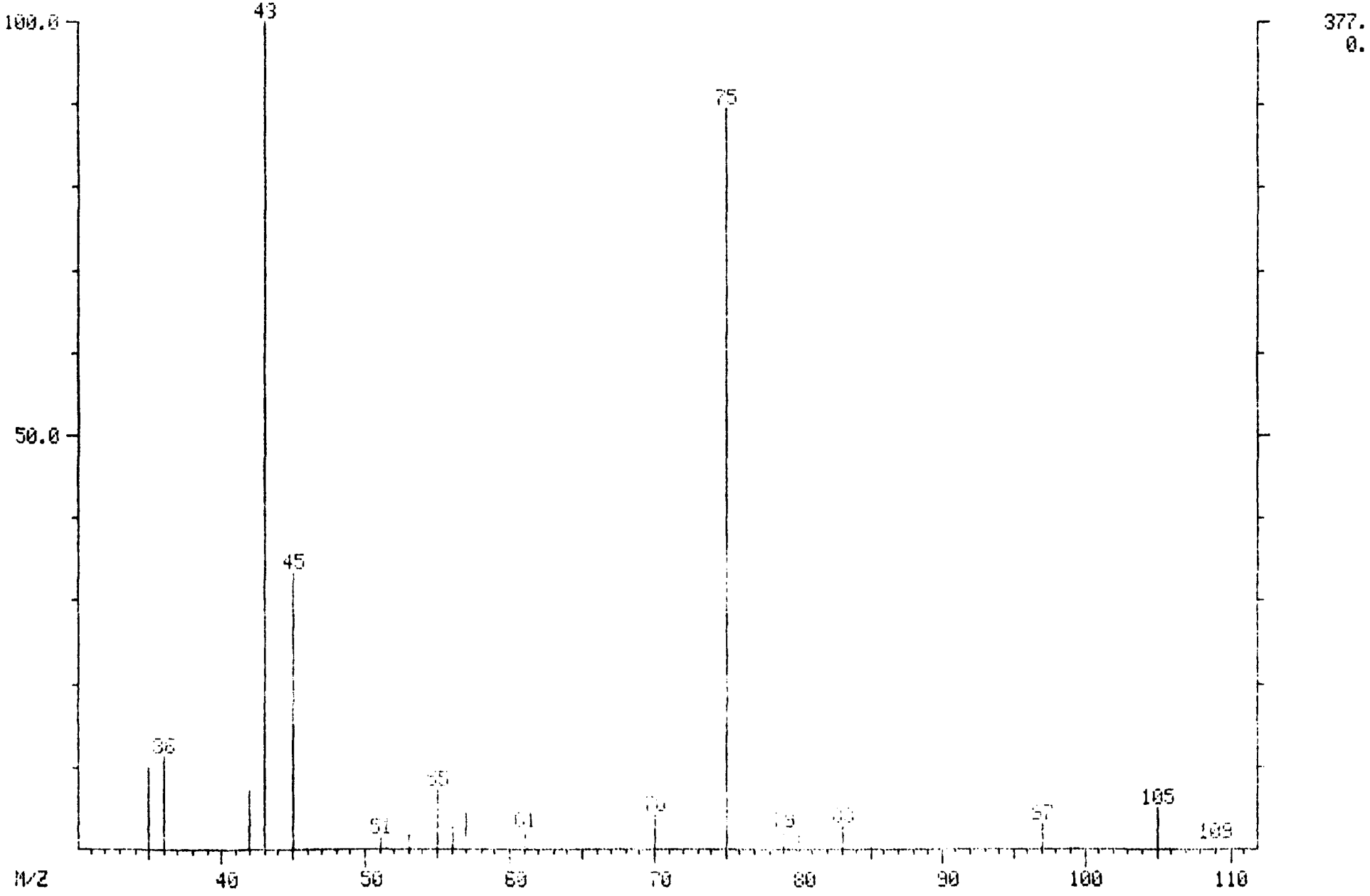
BASE M/Z: 119
RIC: 4376.



MASS SPECTRUM
06/13/89 20:18:00 + 14:[illegible]
SAMPLE: CLP/S135,/MB[illegible]
CONDS.: 45'(3MIN) TO [illegible]
TEMP: 136 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: [illegible] #437
CALIB: [illegible] #[illegible]

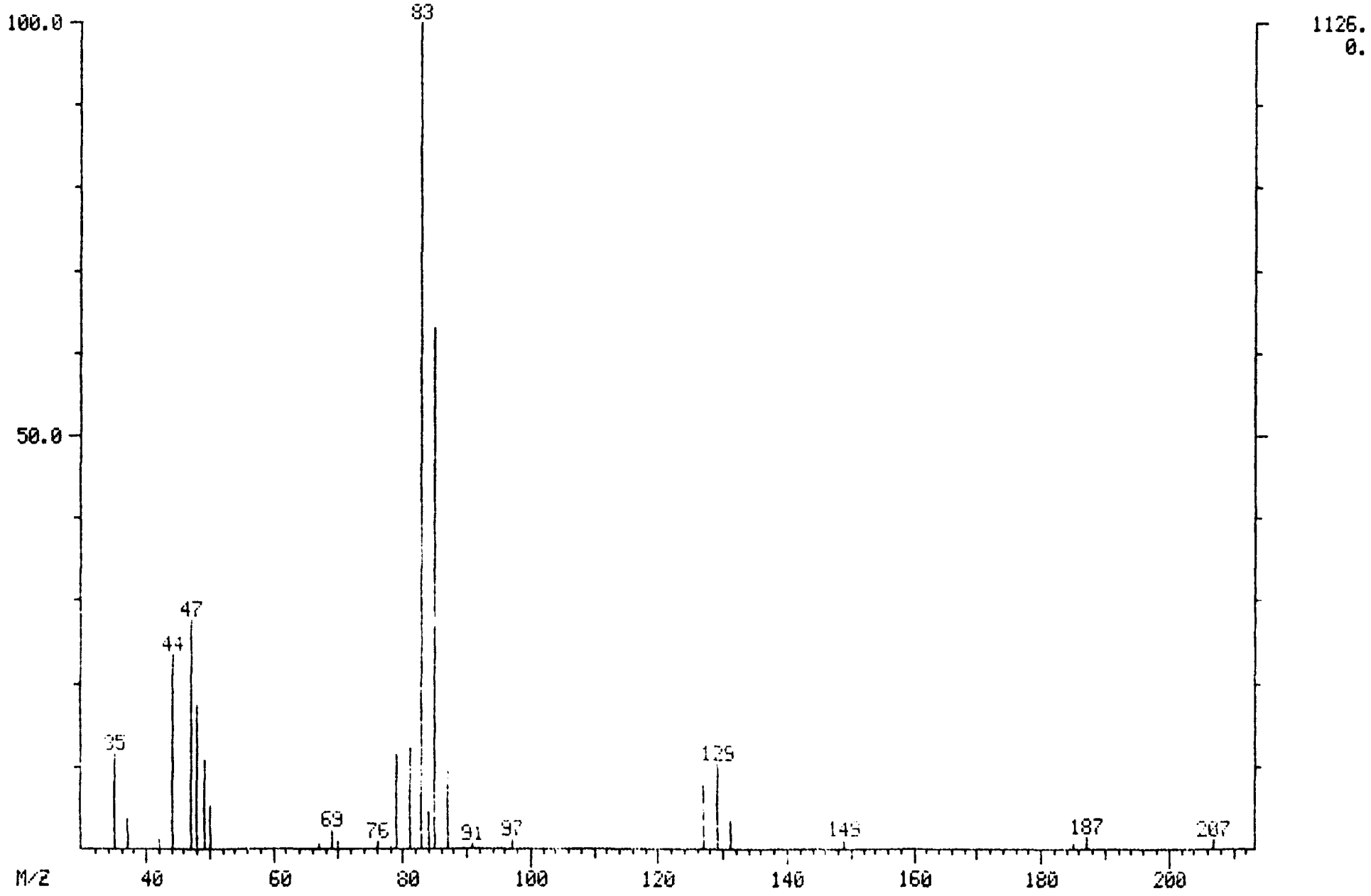
BASE M/Z: 43
RIC: 1184.



MASS SPECTRUM
06/13/89 20:18:00 + 14:58
SAMPLE: CLP.6195,,MDL0613,L.W.,U,EPA.
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 140 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #449
CALI: MDL0613 #3

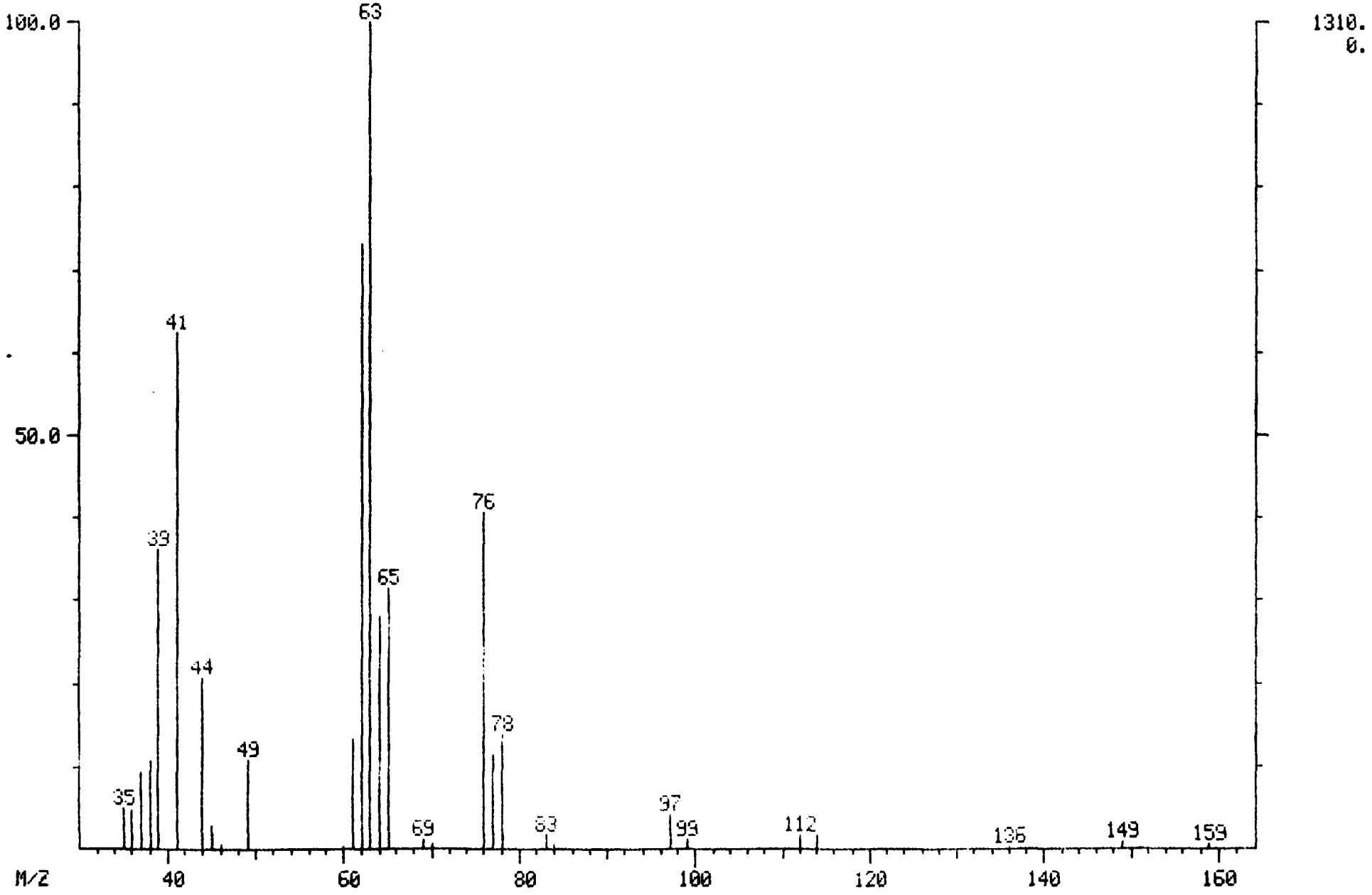
BASE M/Z: 83
RIC: 3764.



MASS SPECTRUM
06/13/89 20:18:00 + 16:18
SAMPLE: CLP,6135,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 150 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #489
CALI: MDL0613 #3

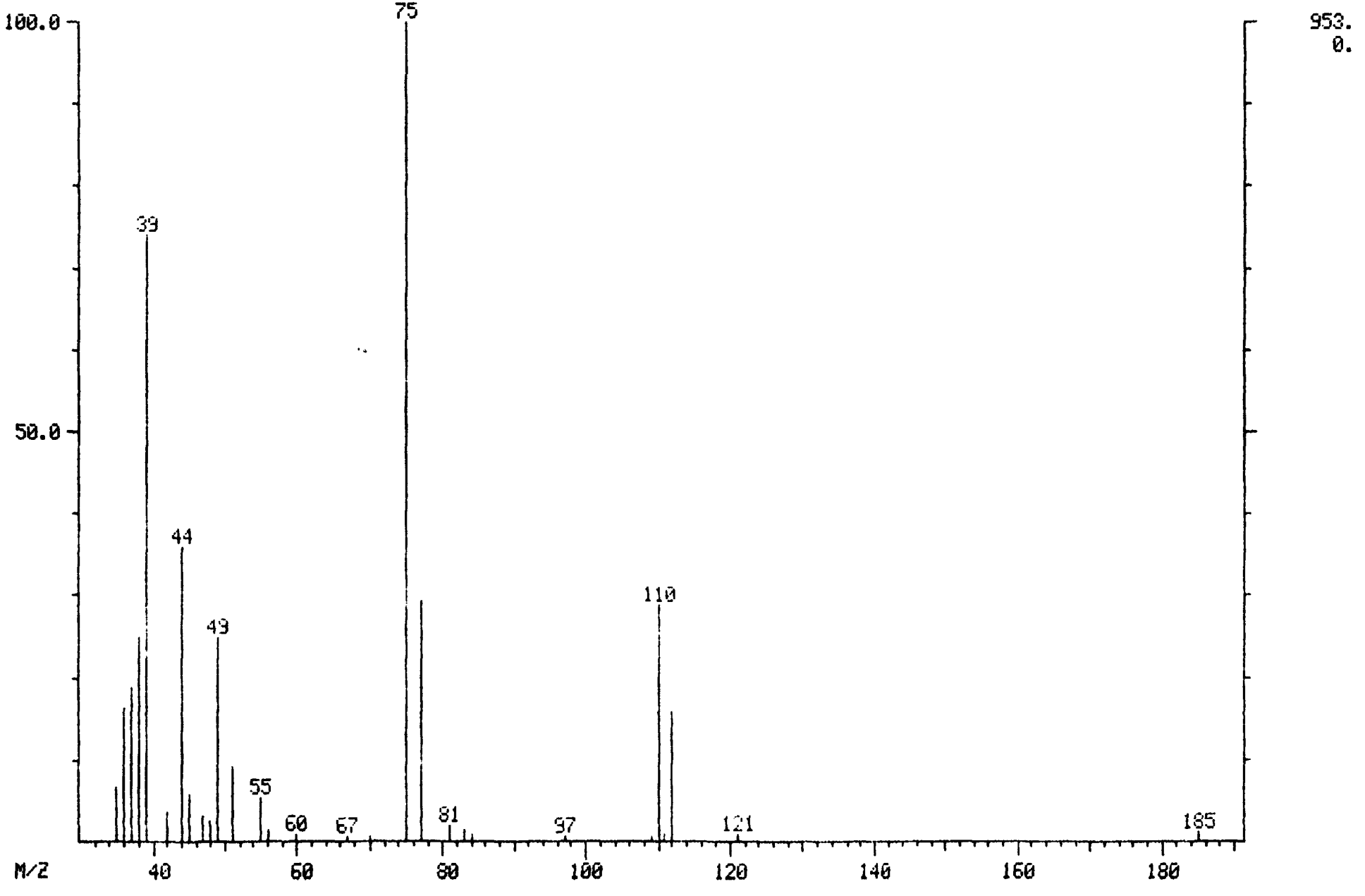
BASE M/Z: 63
RIC: 6432.



MASS SPECTRUM
06/13/89 20:18:00 + 16:38
SAMPLE: CLP,6195,,MDL0613,L,W,,U,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 153 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #498
CALI: MDL0613 #3

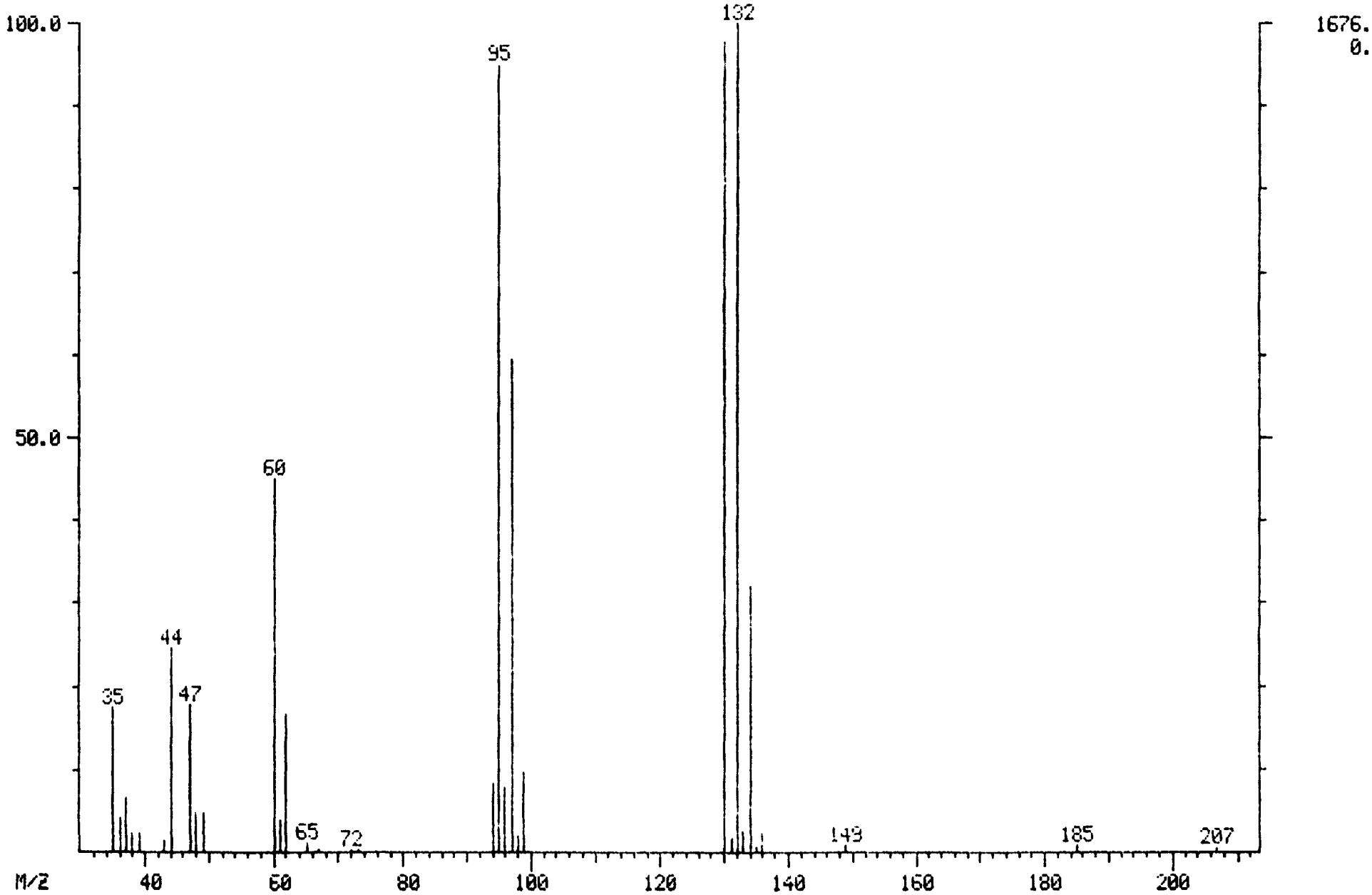
BASE M/Z: 75
RIC: 3980.



MASS SPECTRUM
06/13/89 20:18:00 + 17:06
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA.
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 157 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #513
CALI: MDL0613 #3

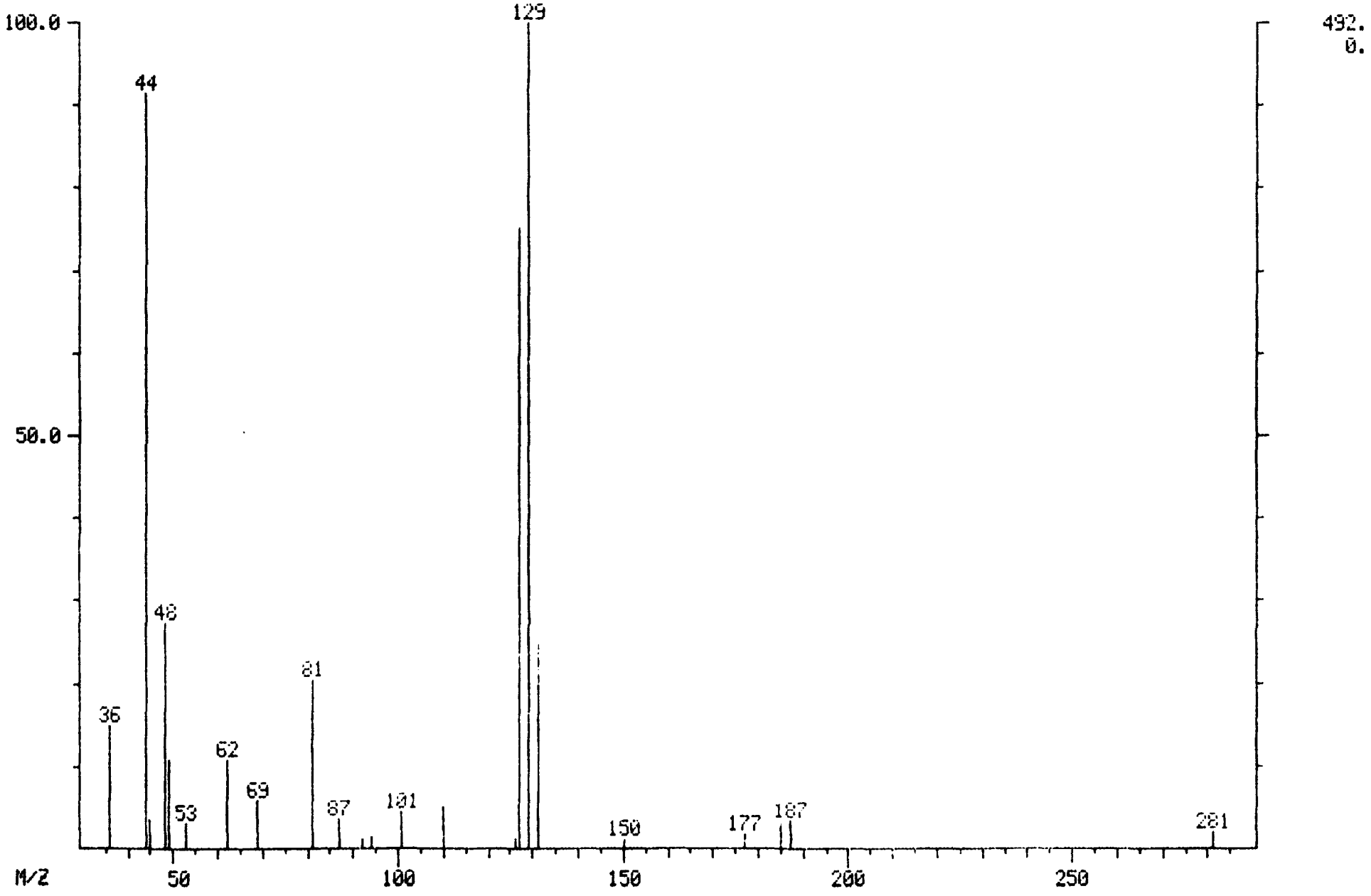
BASE M/Z: 132
RIC: 9648.



MASS SPECTRUM
06/13/89 20:18:00 + 17:46
SAMPLE: CLP.6195..MDL0613.L.W..V.EPA.
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 162 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #533
CALI: MDL0613 #3

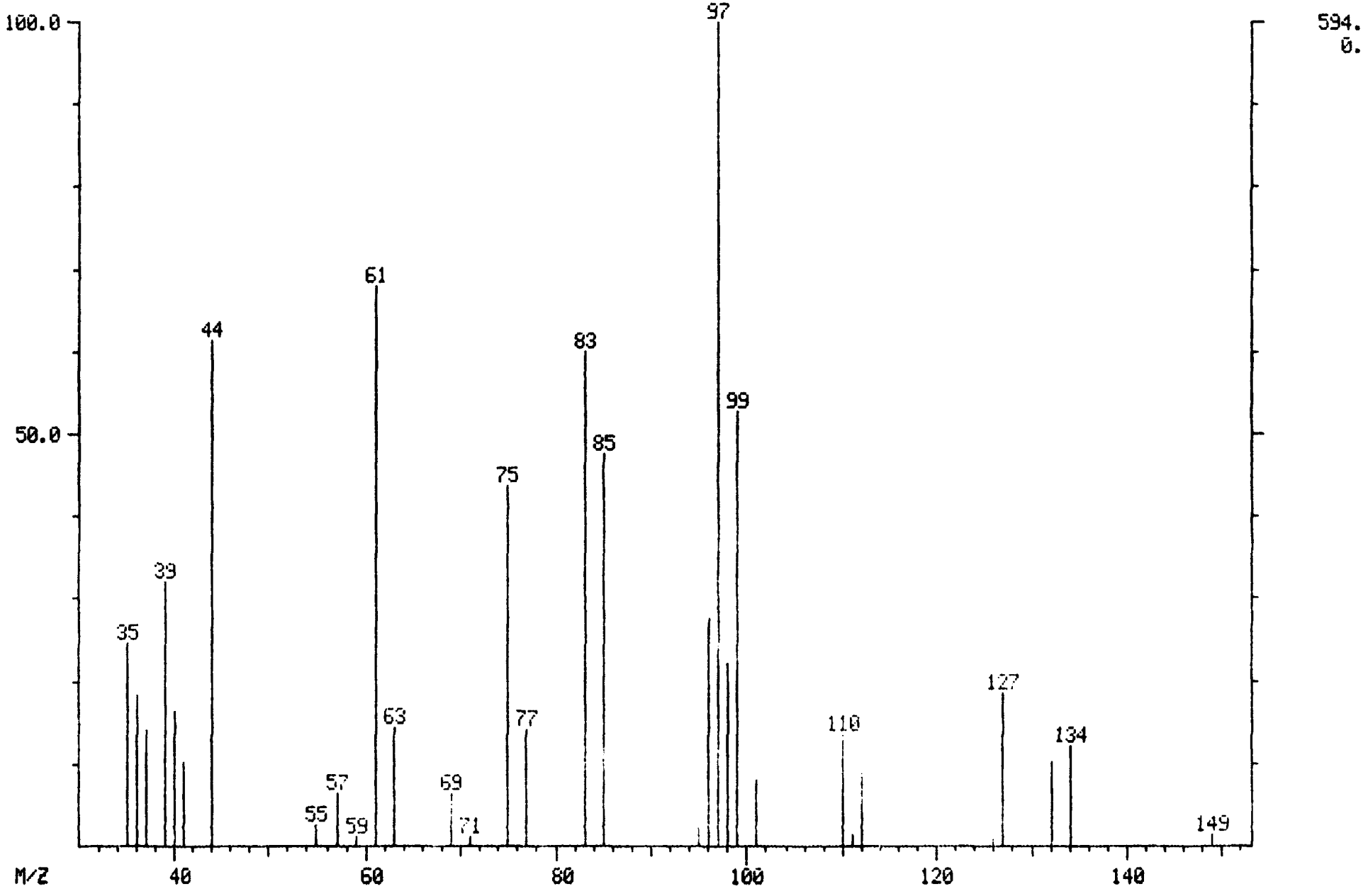
BASE M/Z: 129
RIC: 2048.



MASS SPECTRUM
06/13/89 20:13:00 + 17:54
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 163 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #537
CALI: MDL0613 #3

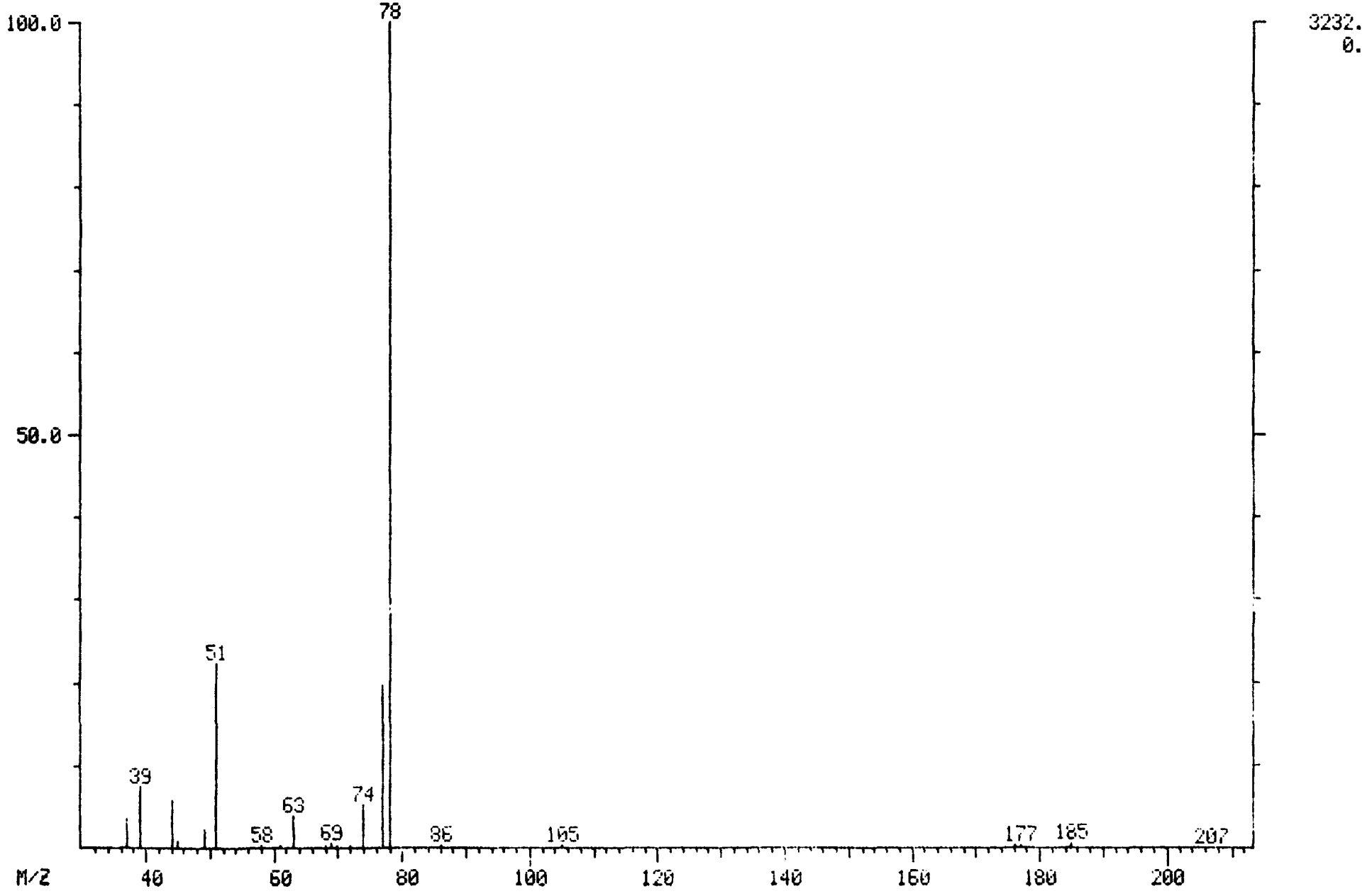
BASE M/Z: 97
RIC: 4296.



MASS SPECTRUM
06/13/89 20:18:00 + 17:38
SAMPLE: CLP,6195,,MDL0613,L,W.,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 161 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #529
CALI: MDL0613 #3

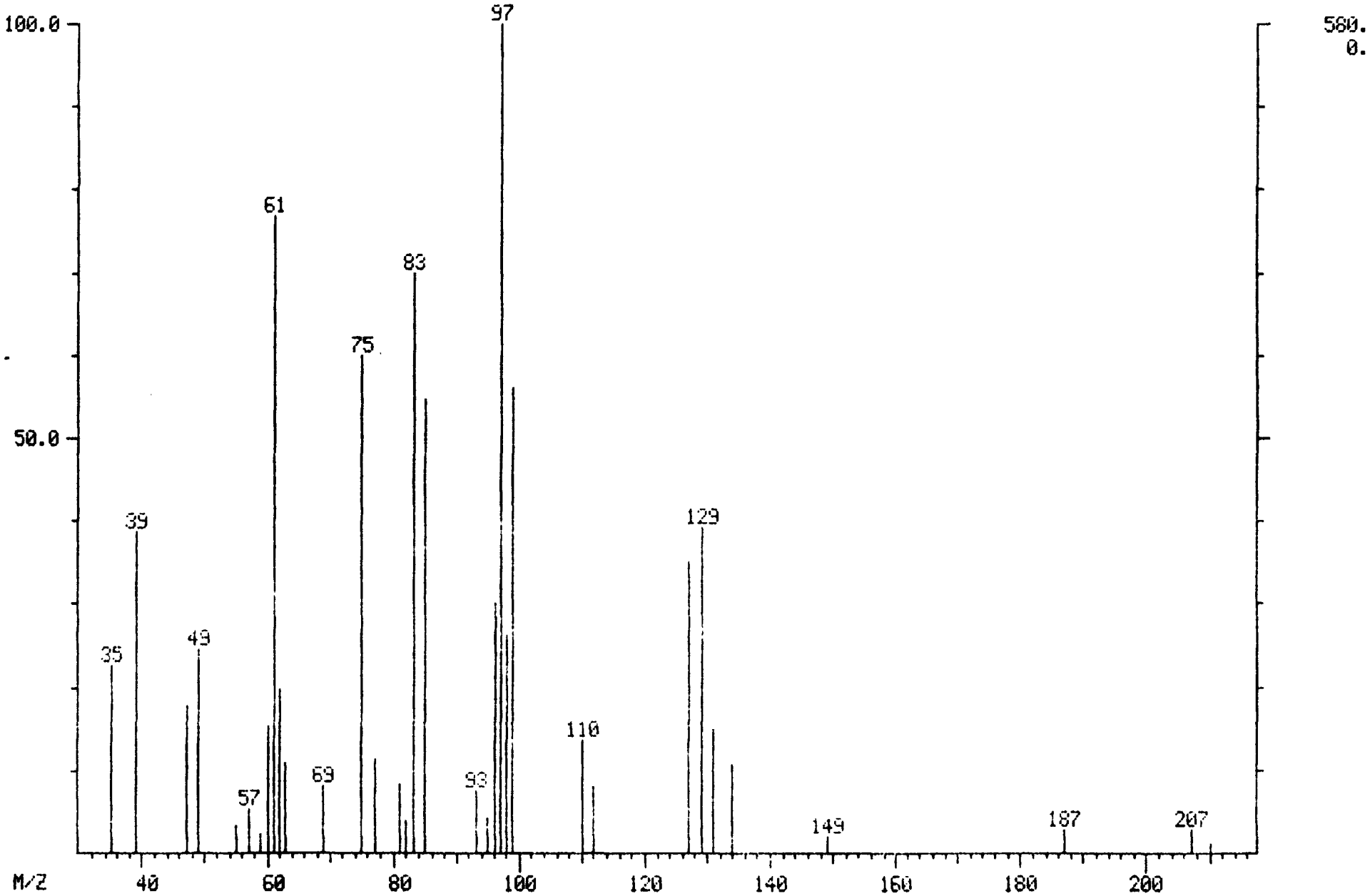
BASE M/Z: 78
RIC: 5656.



MASS SPECTRUM
06/13/89 20:18:00 + 17:52
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 163 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #536
CALI: MDL0613 #3

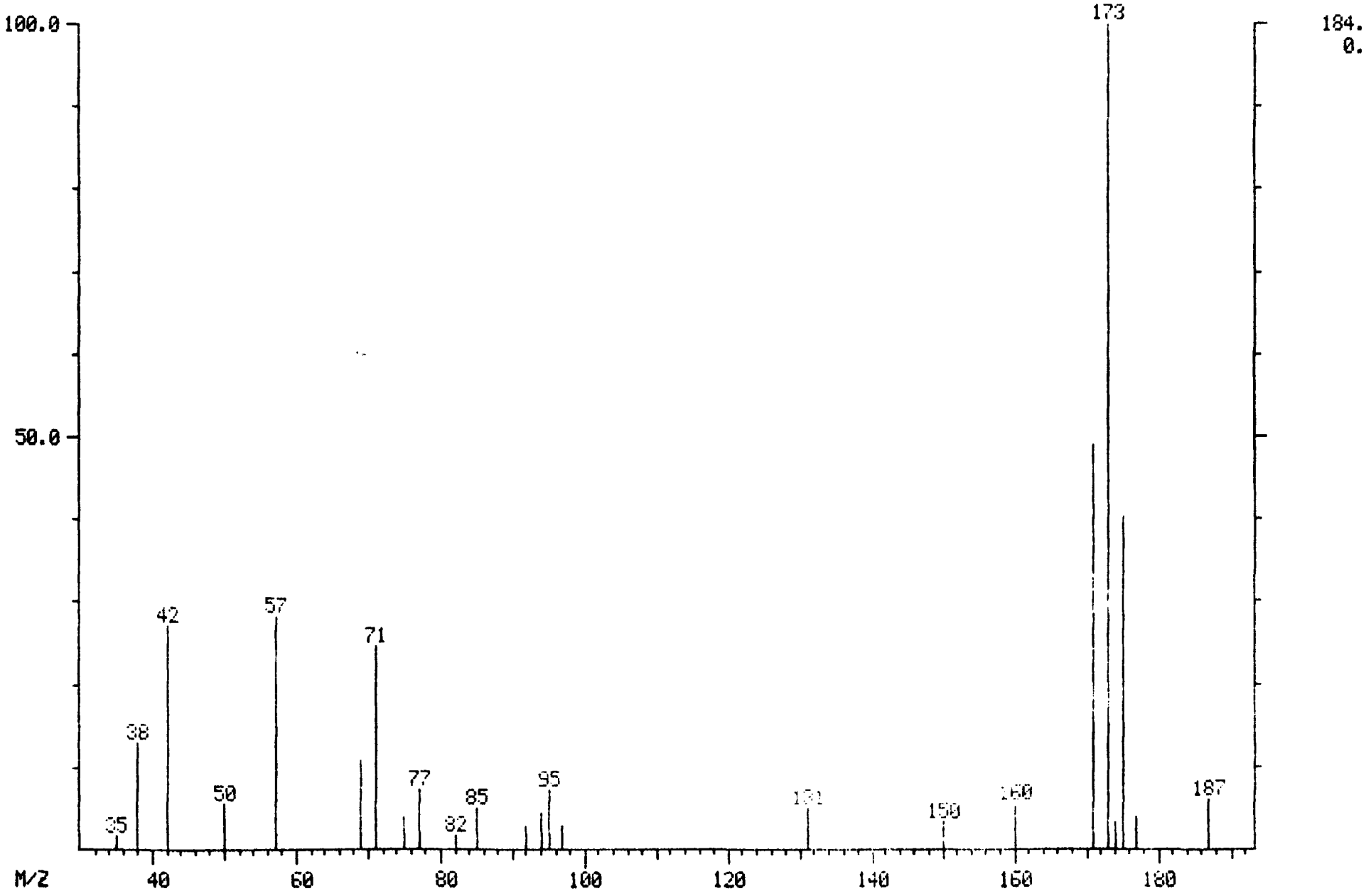
BASE M/Z: 97
RIC: 4688.



MASS SPECTRUM
06/13/89 20:18:00 + 20:32
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 184 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #616
CALI: MDL0613 #3

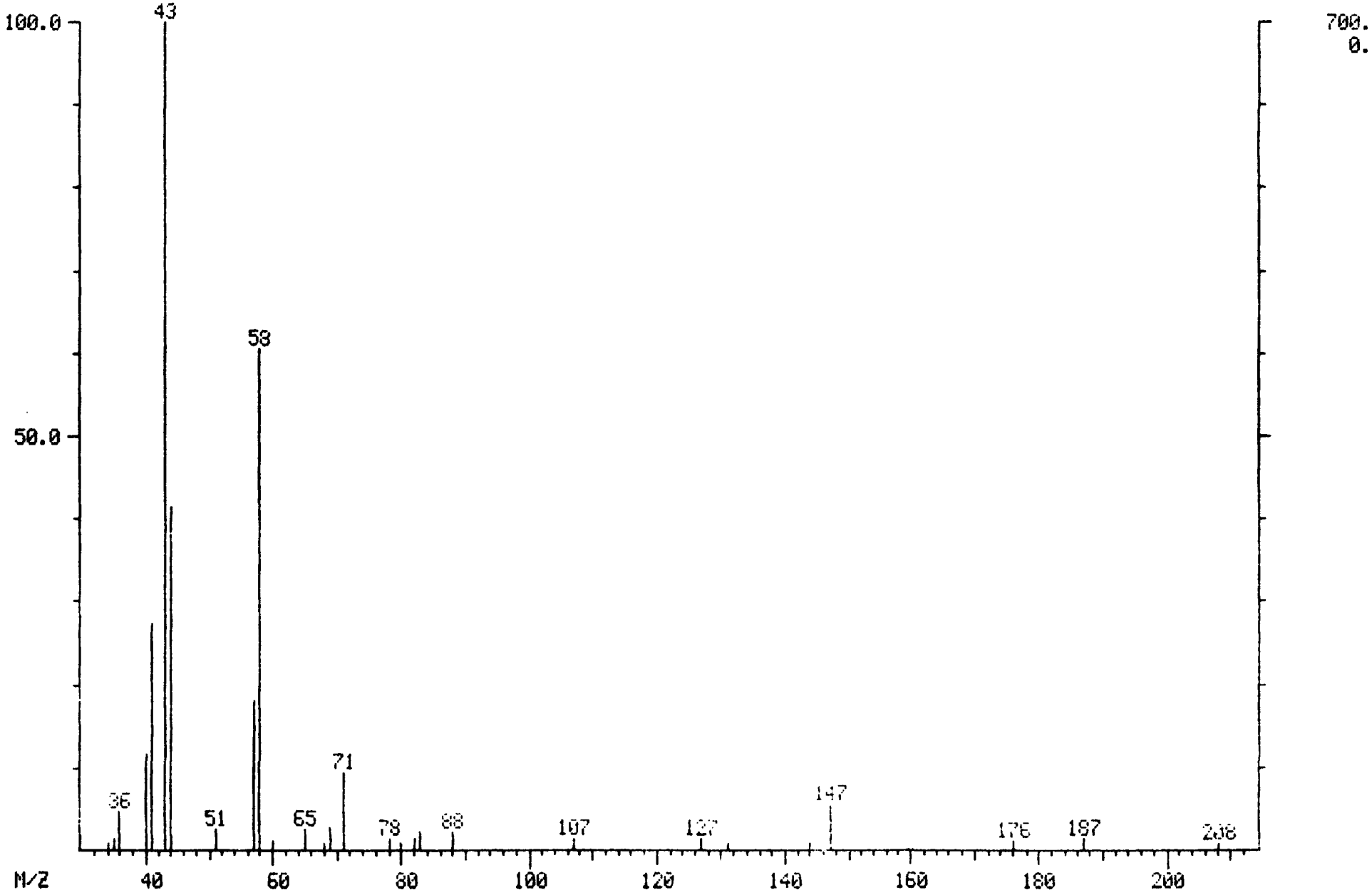
BASE M/Z: 173
RIC: 664.



MASS SPECTRUM
06/13/89 20:18:00 + 22:26
SAMPLE: CLP,6135.,MDL0613.L,W,,U,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 200 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #673
CALI: MDL0613 #3

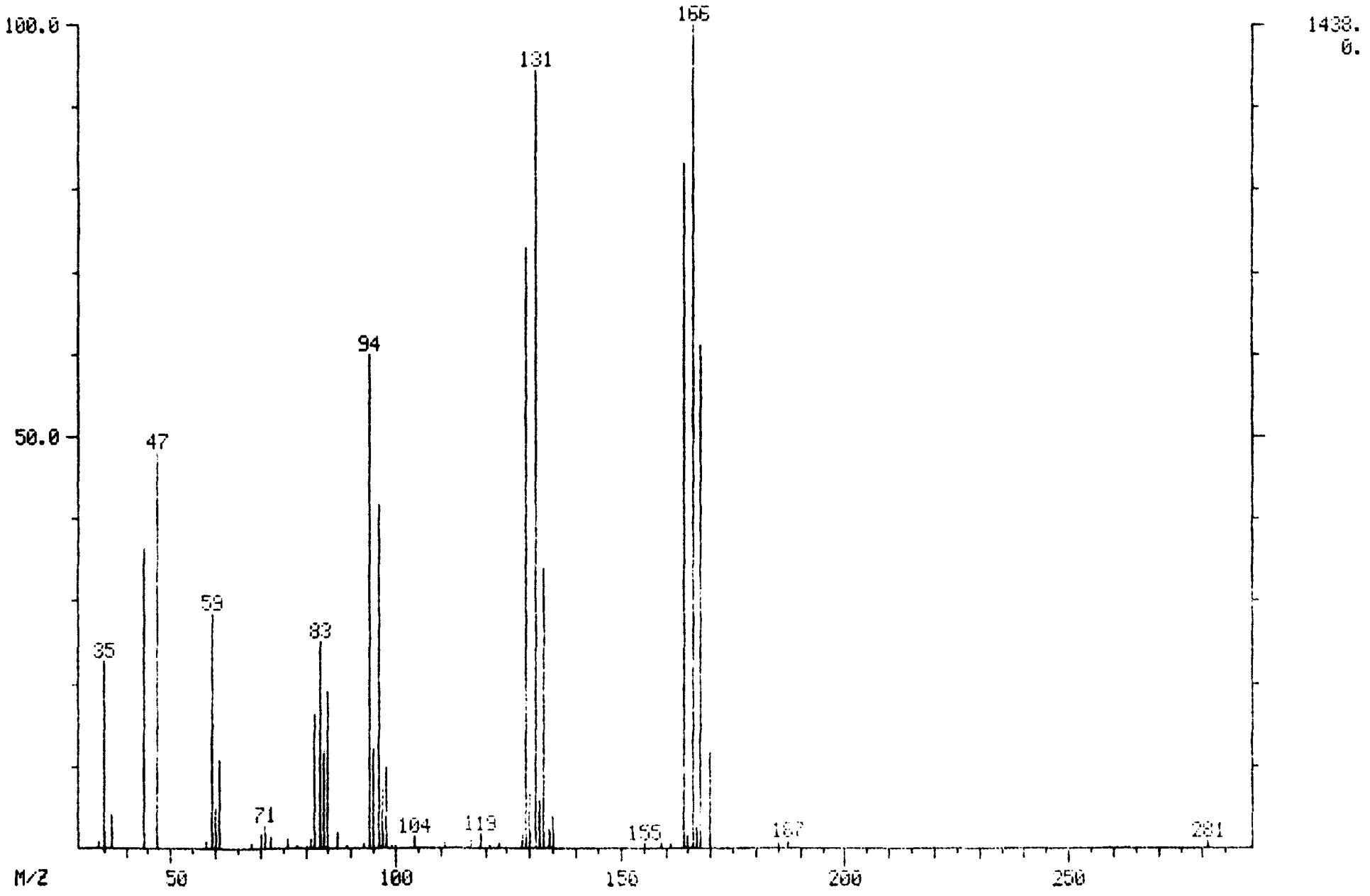
BASE M/Z: 43
RIC: 2156.



MASS SPECTRUM
06/13/89 20:18:00 + 22:50
SAMPLE: CLP,6195,,MDL0613,L,A,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 203 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #685
CALI: MDL0613 #3

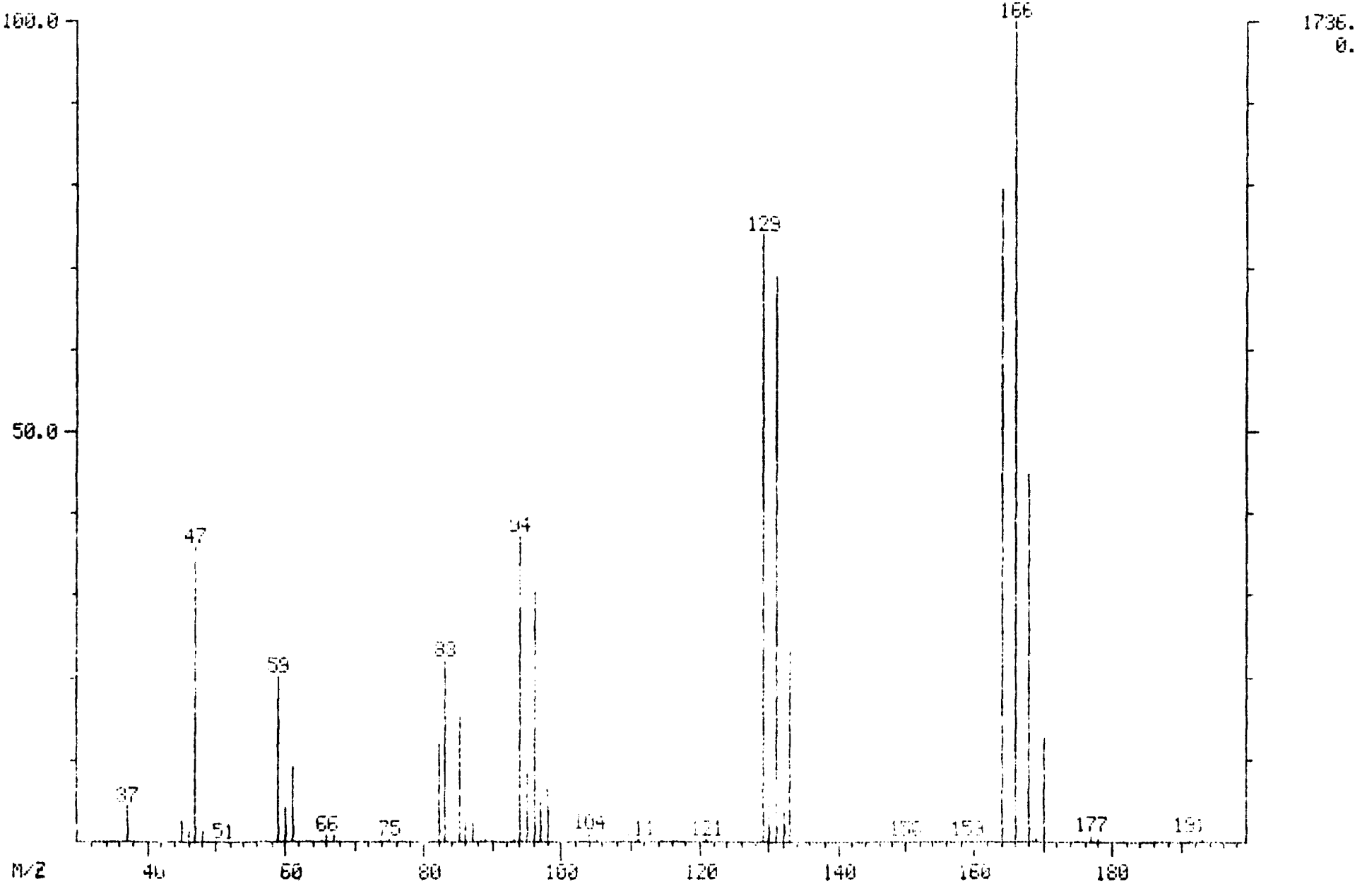
BASE M/Z: 166
RIC: 12464.



MASS SPECTRUM
06/13/89 20:19:02 + 22:46
SAMPLE: CLP/6195,/MDL0613.L,W,,0,6PH.
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 202 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #992
CALI: MDL0613 #3

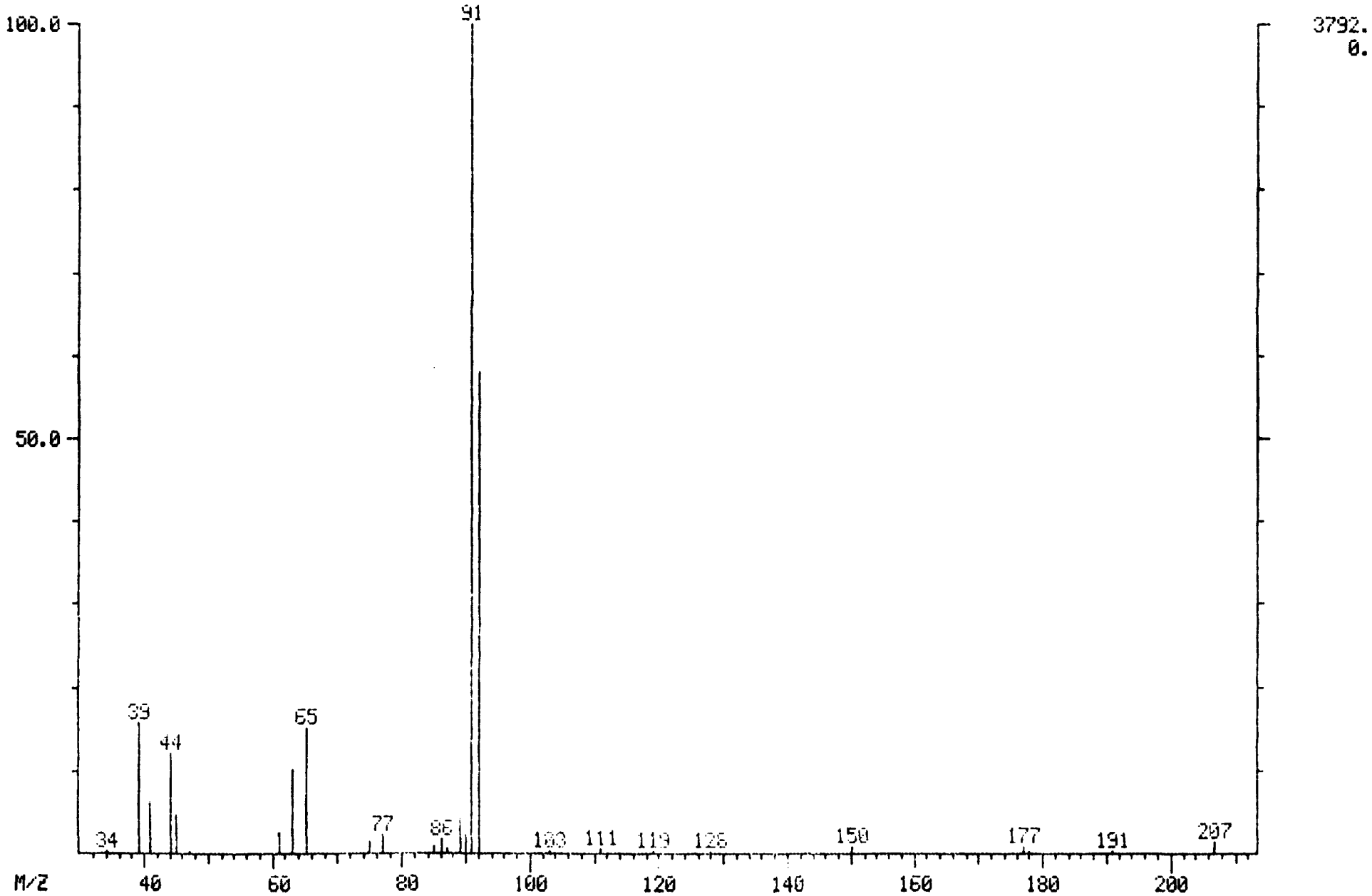
BASE M/Z: 166
RIC: 11332.



MASS SPECTRUM
06/13/89 20:18:00 + 24:04
SAMPLE: CLP,E195.,MCL0E13.L,W,.V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 212 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #722
CALI: MDL0613 #3

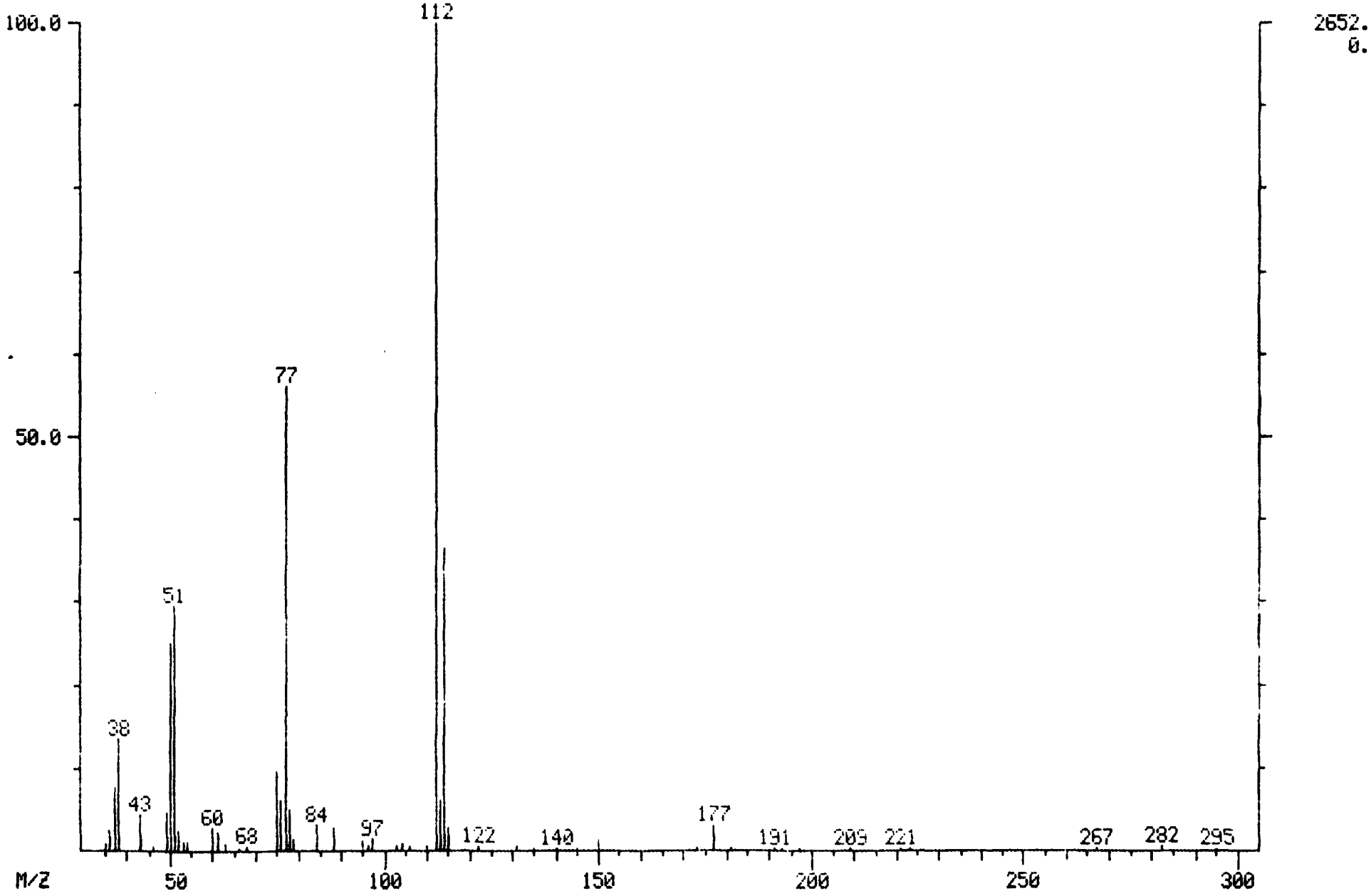
BASE M/Z: 91
RIC: 9264.



MASS SPECTRUM
06/13/89 20:18:00 + 25:16
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 220 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #758
CALI: MDL0613 #3

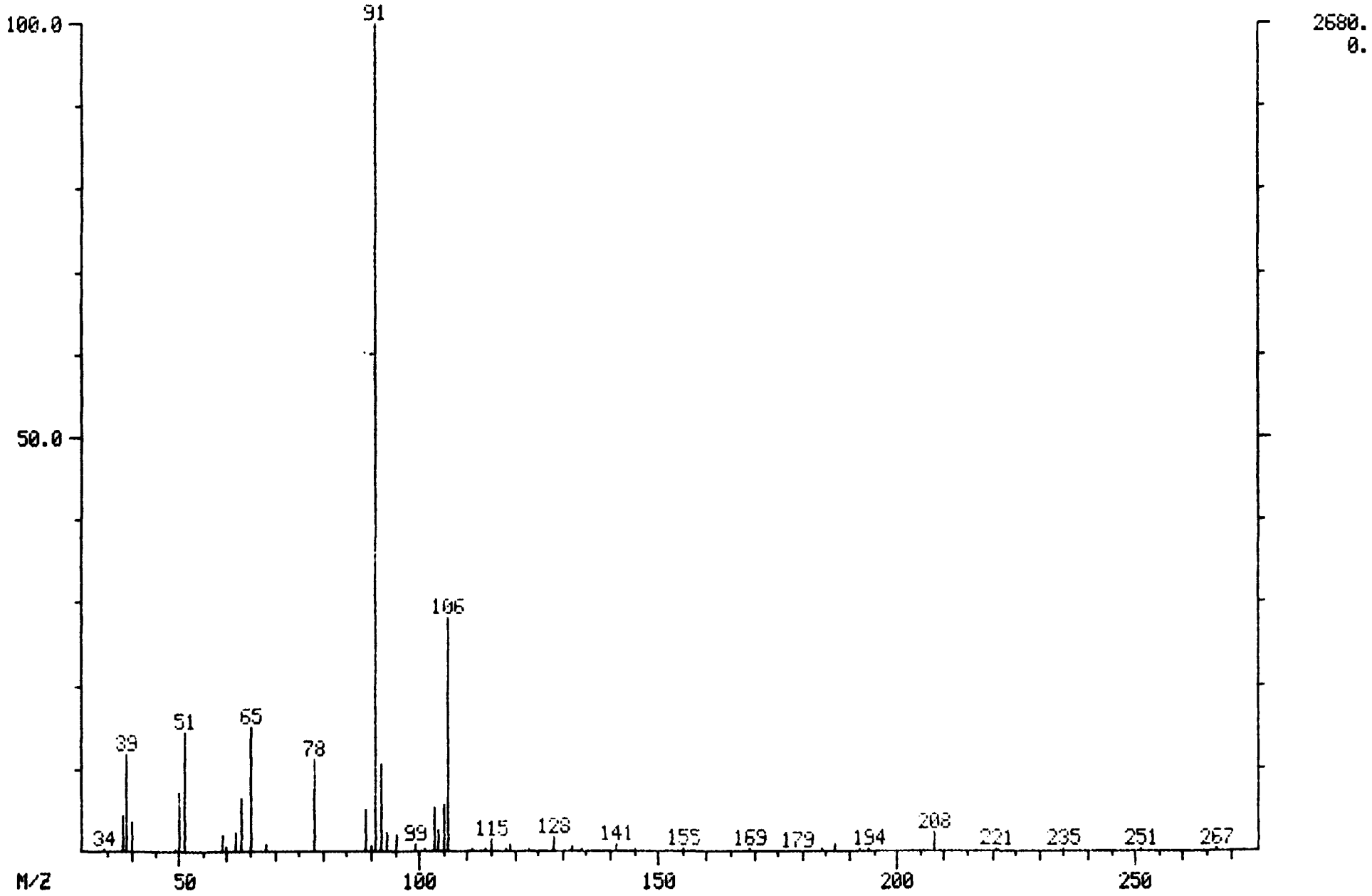
BASE M/Z: 112
RIC: 9152.



MASS SPECTRUM
06/13/89 20:18:00 + 27:18
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #819
CALI: MDL0613 #3

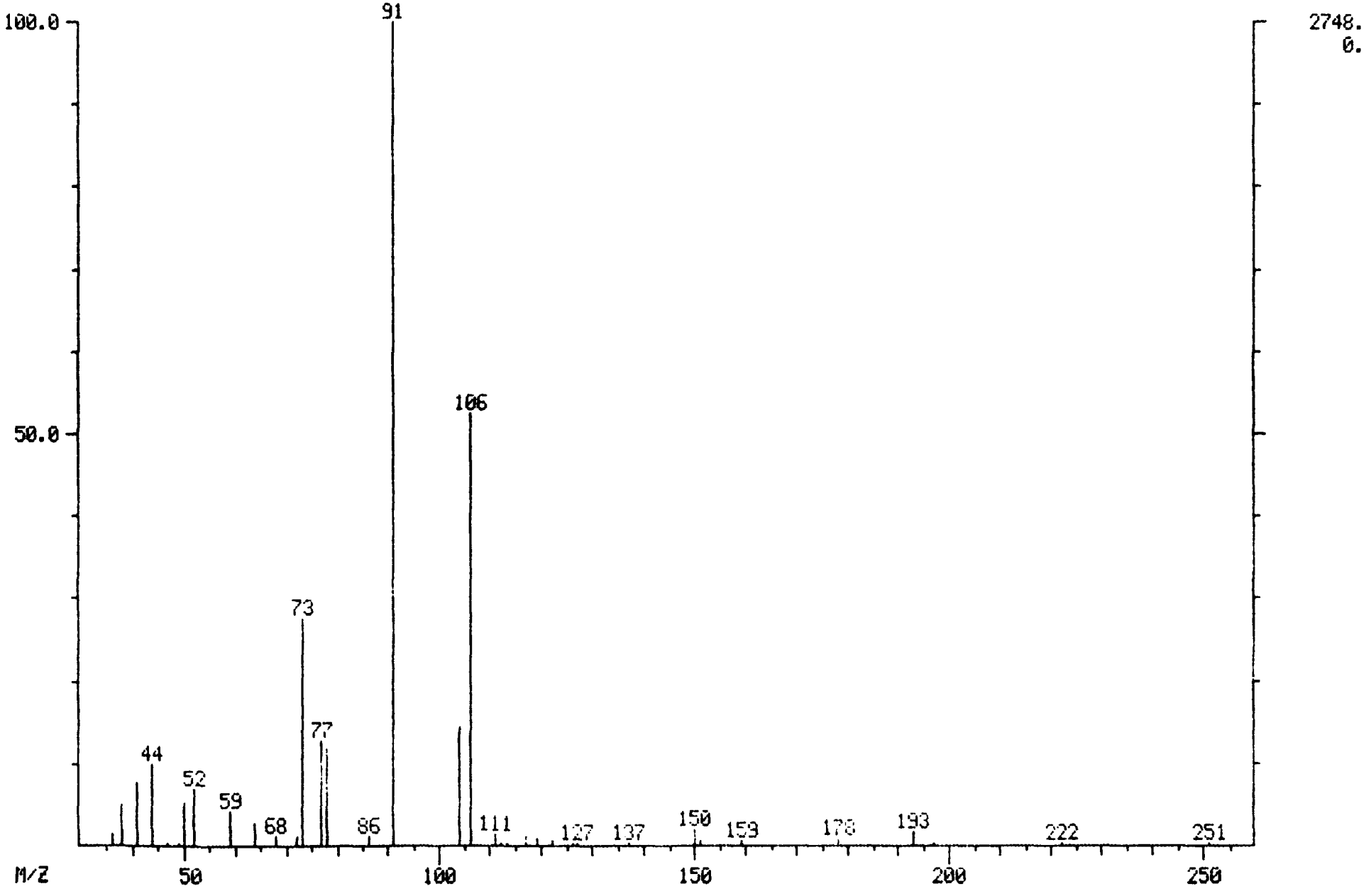
BASE M/Z: 91
RIC: 6856.



MASS SPECTRUM
06/13/89 20:18:00 + 31:46
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #953
CALI: MDL0613 #3

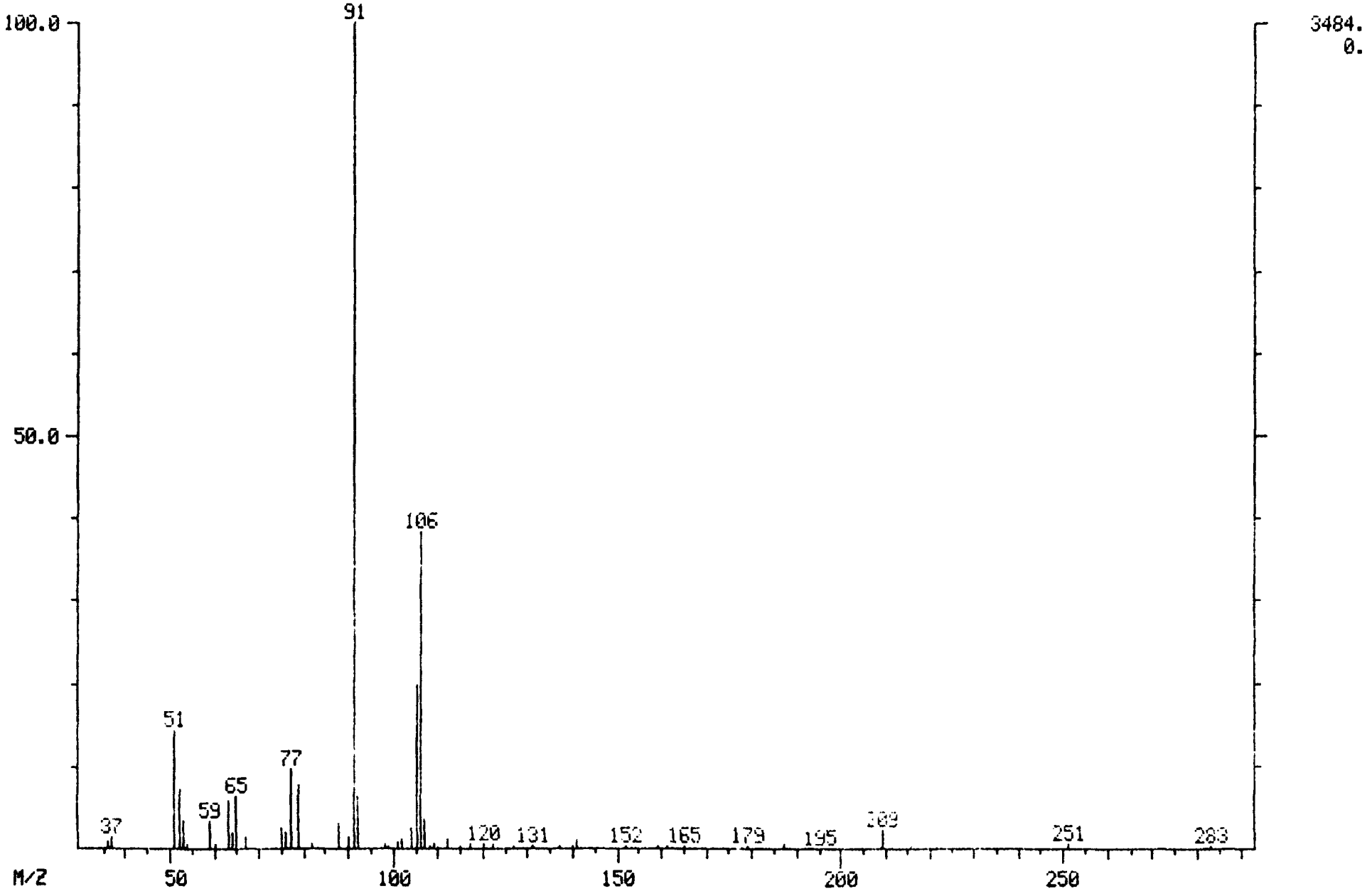
BASE M/Z: 91
RIC: 7672.



MASS SPECTRUM
06/13/89 20:18:00 + 32:50
SAMPLE: CLP.6195,.MDL0613.L.W,.V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #985
CALI: MDL0613 #3

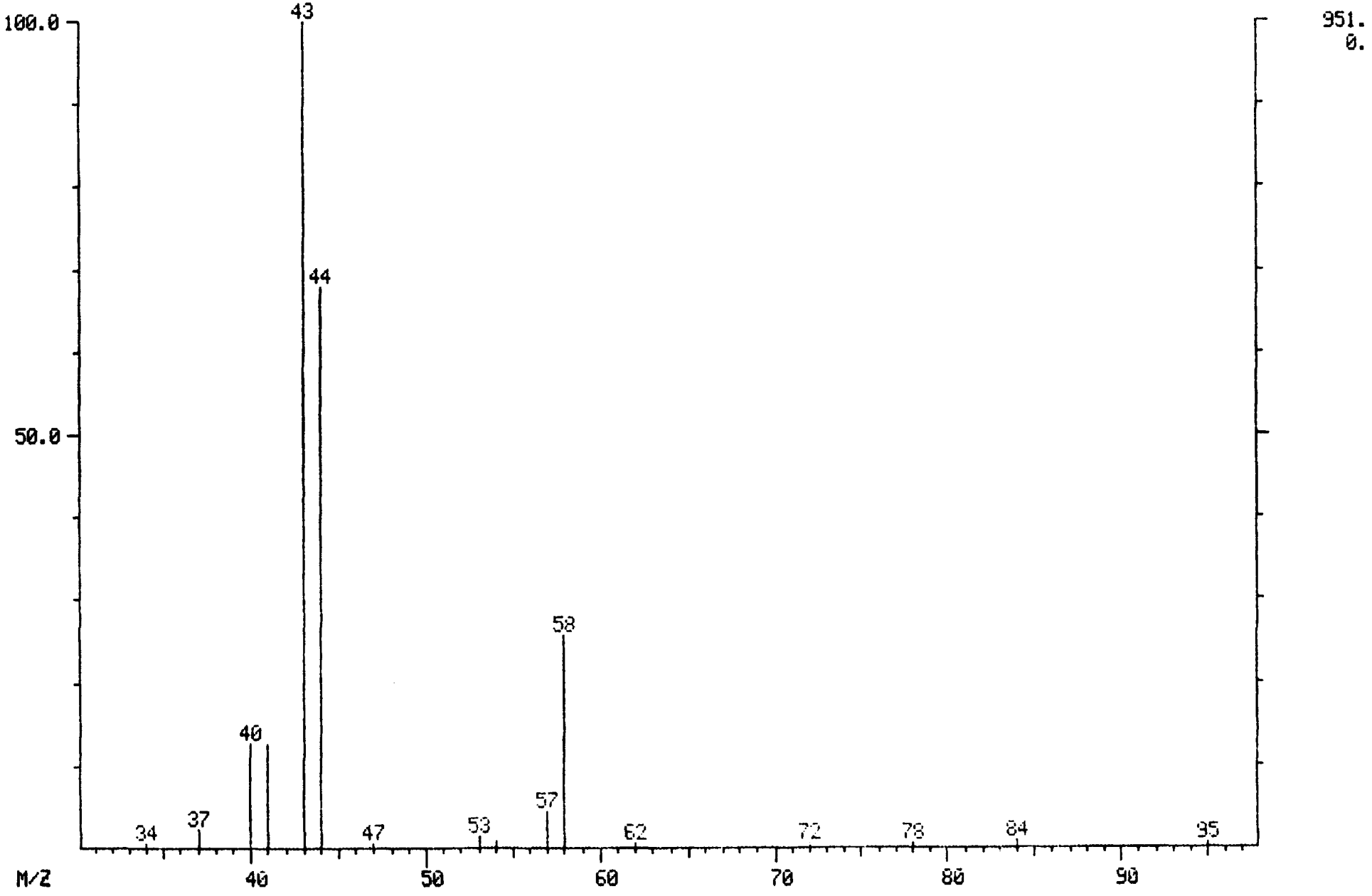
BASE M/Z: 91
RIC: 8992.



MASS SPECTRUM
06/13/89 20:18:00 + 7:22
SAMPLE: CLP,6195,,MDL0613,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 79 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #221
CALI: MDL0613 #3

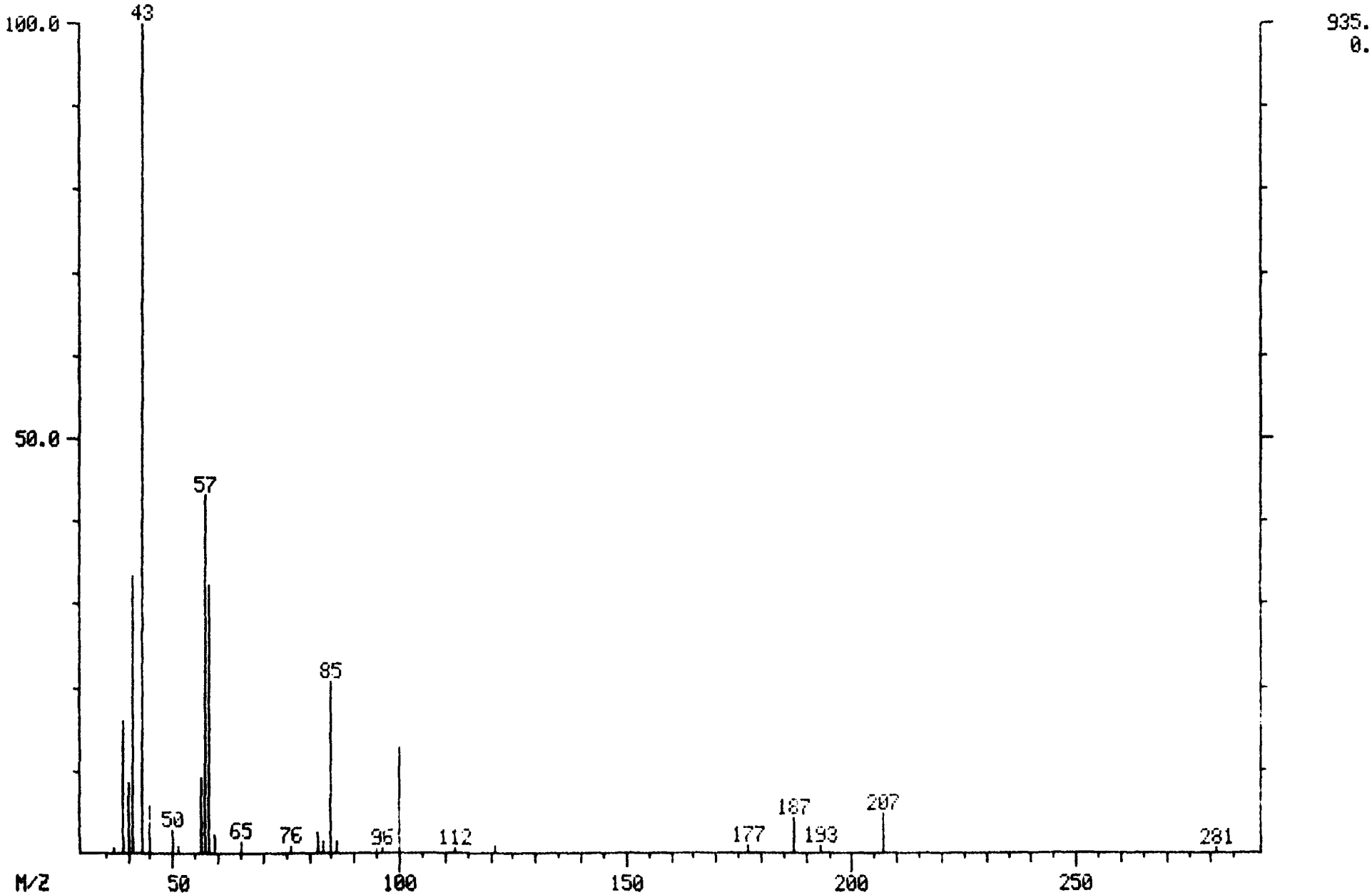
BASE M/Z: 43
RIC: 2208.



MASS SPECTRUM
06/13/89 20:18:00 + 20:56
SAMPLE: CLP,6195,,MDL0613,L,W,,U,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 187 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0613 #628
CALI: MDL0613 #3

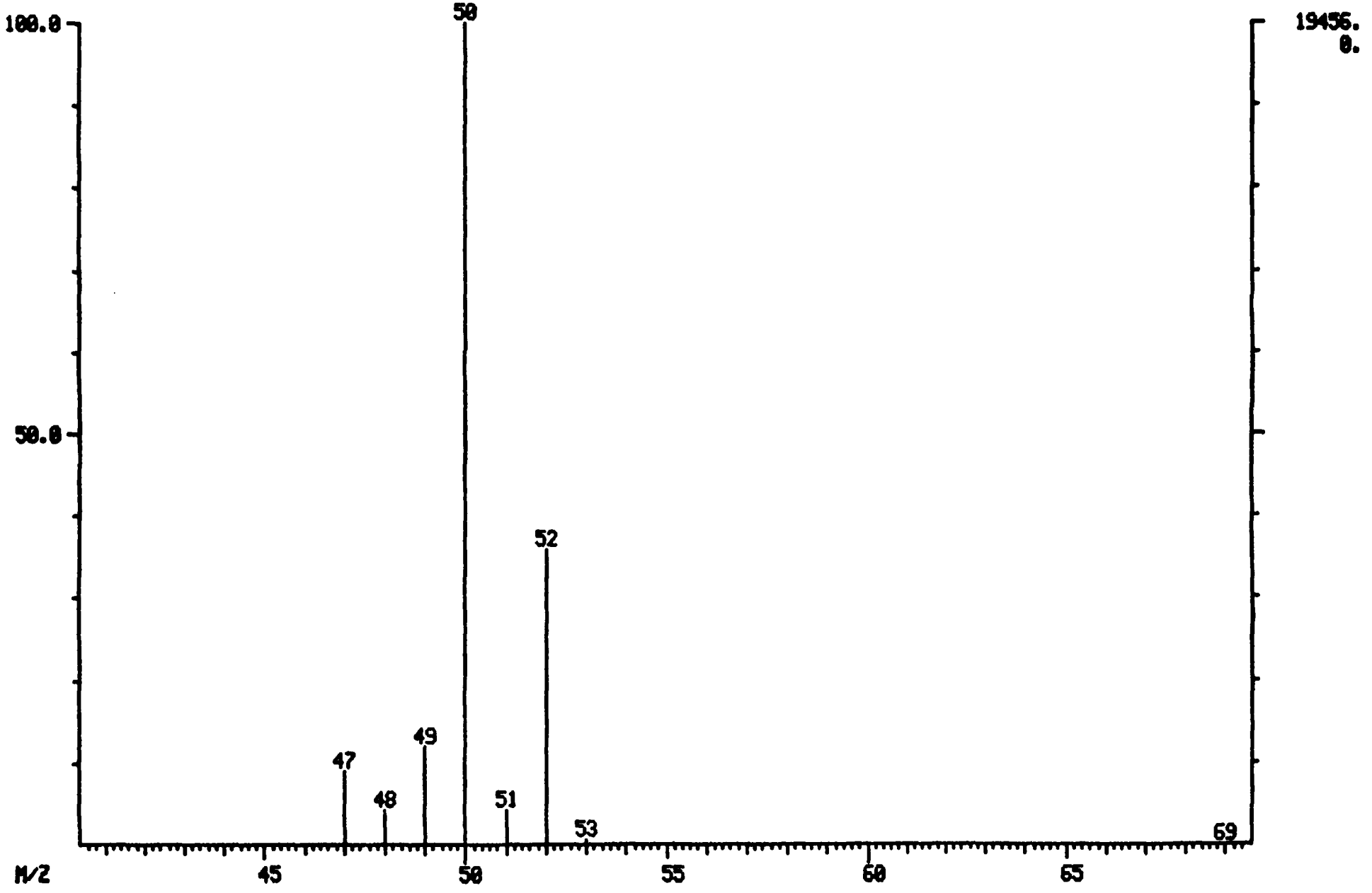
BASE M/Z: 43
RIC: 2908.



MASS SPECTRUM
05/04/89 12:56:00 + 1:36
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #48
CALI: IC30504 #3

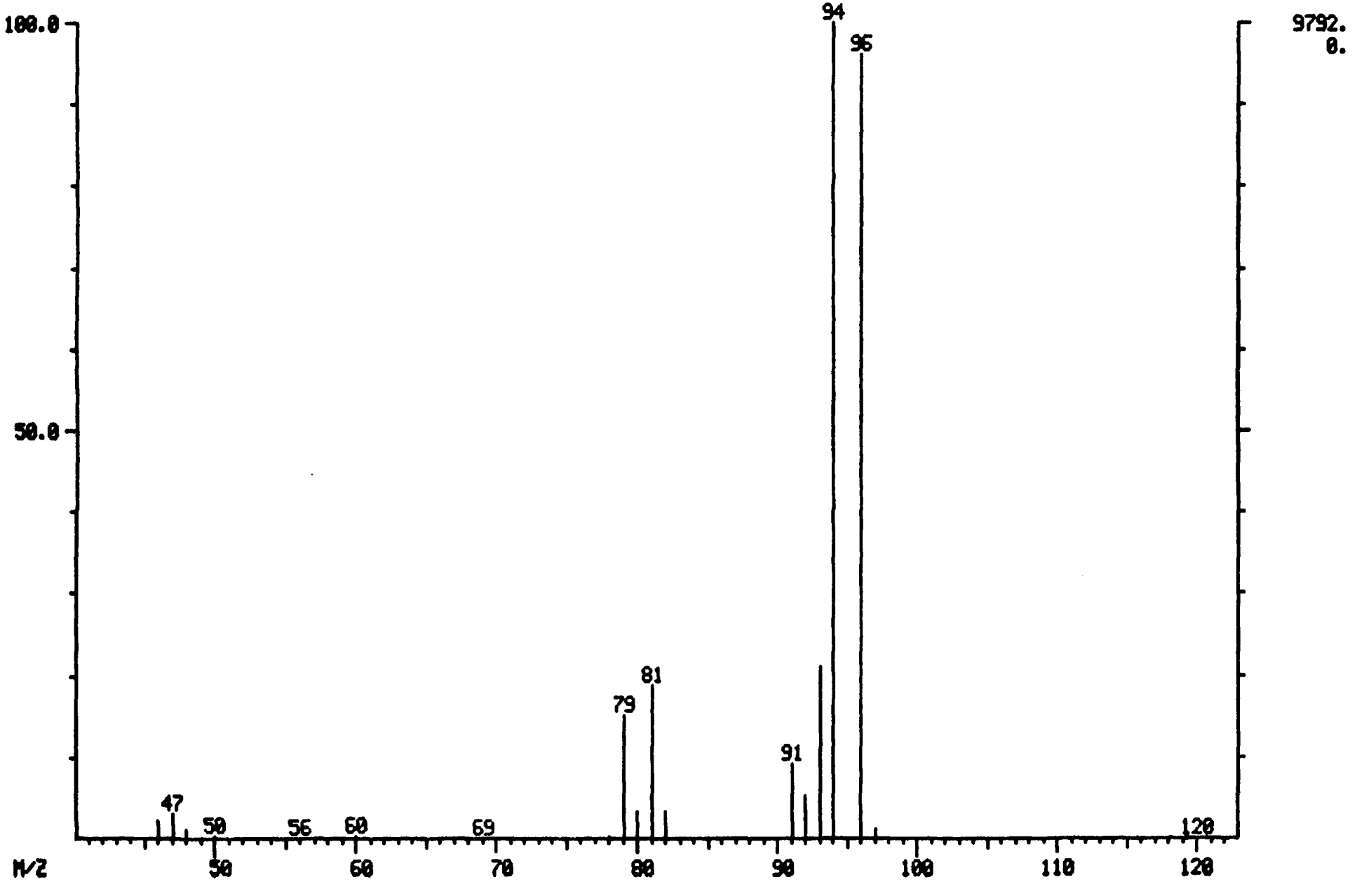
BASE M/Z: 50
RIC: 32256.



MASS SPECTRUM
05/04/89 12:56:00 + 2:38
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 45 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #79
CALI: IC30504 #3

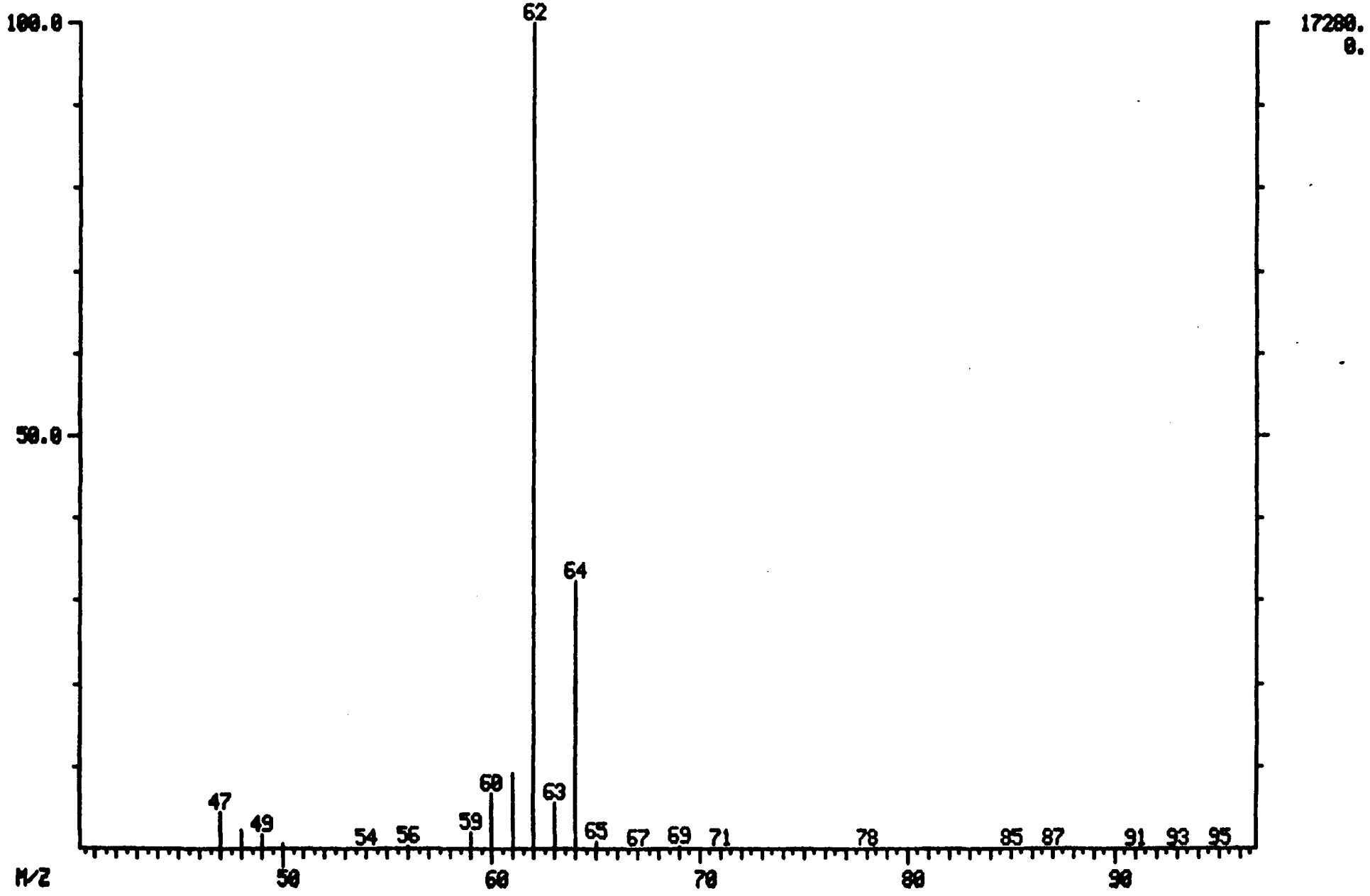
BASE M/Z: 94
RIC: 27488.



MASS SPECTRUM
05/04/89 12:56:00 + 3:24
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 47 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #102
CALI: IC30504 #3

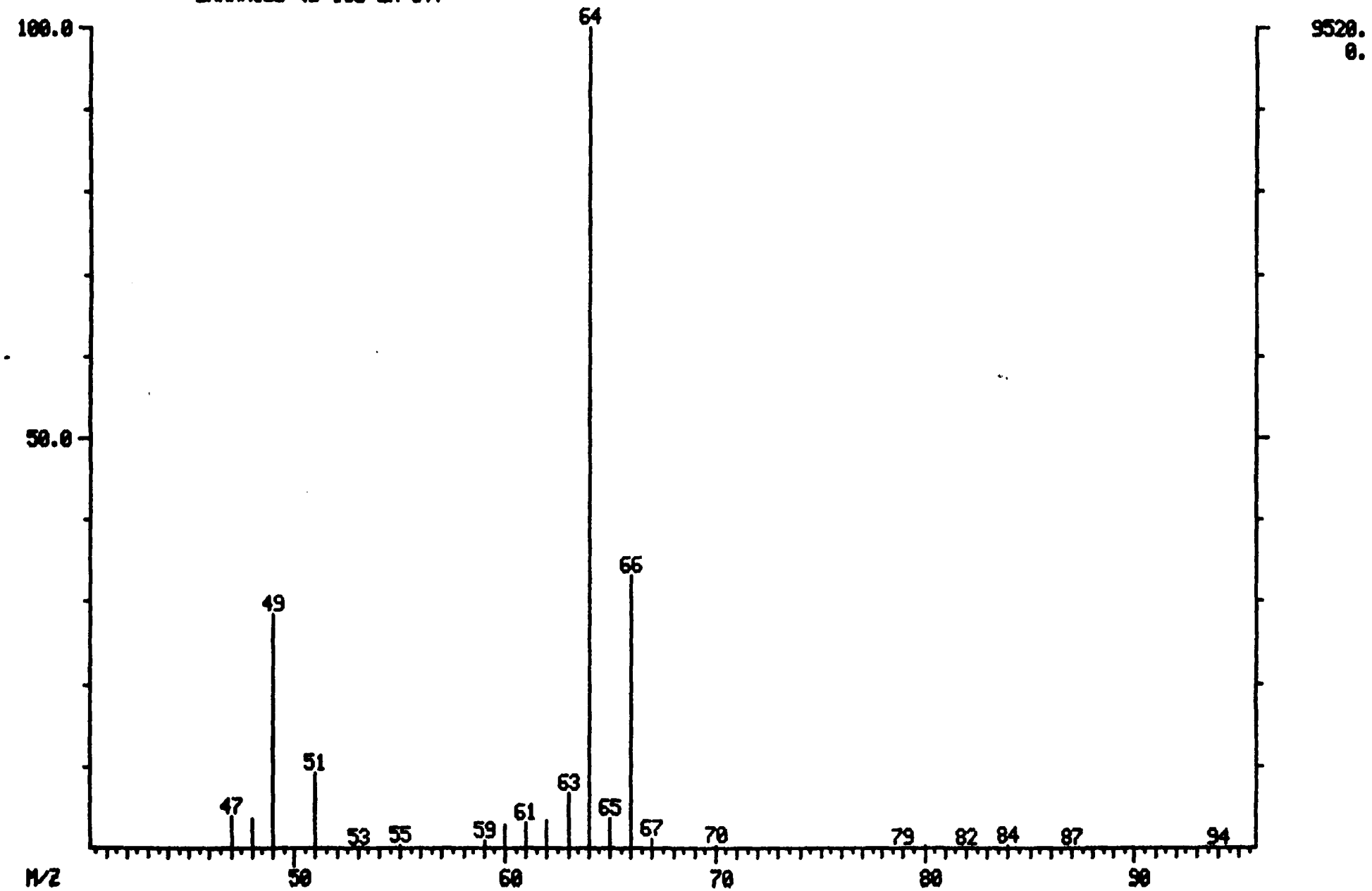
BASE M/Z: 62
RIC: 28672.



MASS SPECTRUM
05/04/89 12:56:00 + 4:26
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 55 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #133
CALI: IC30504 #3

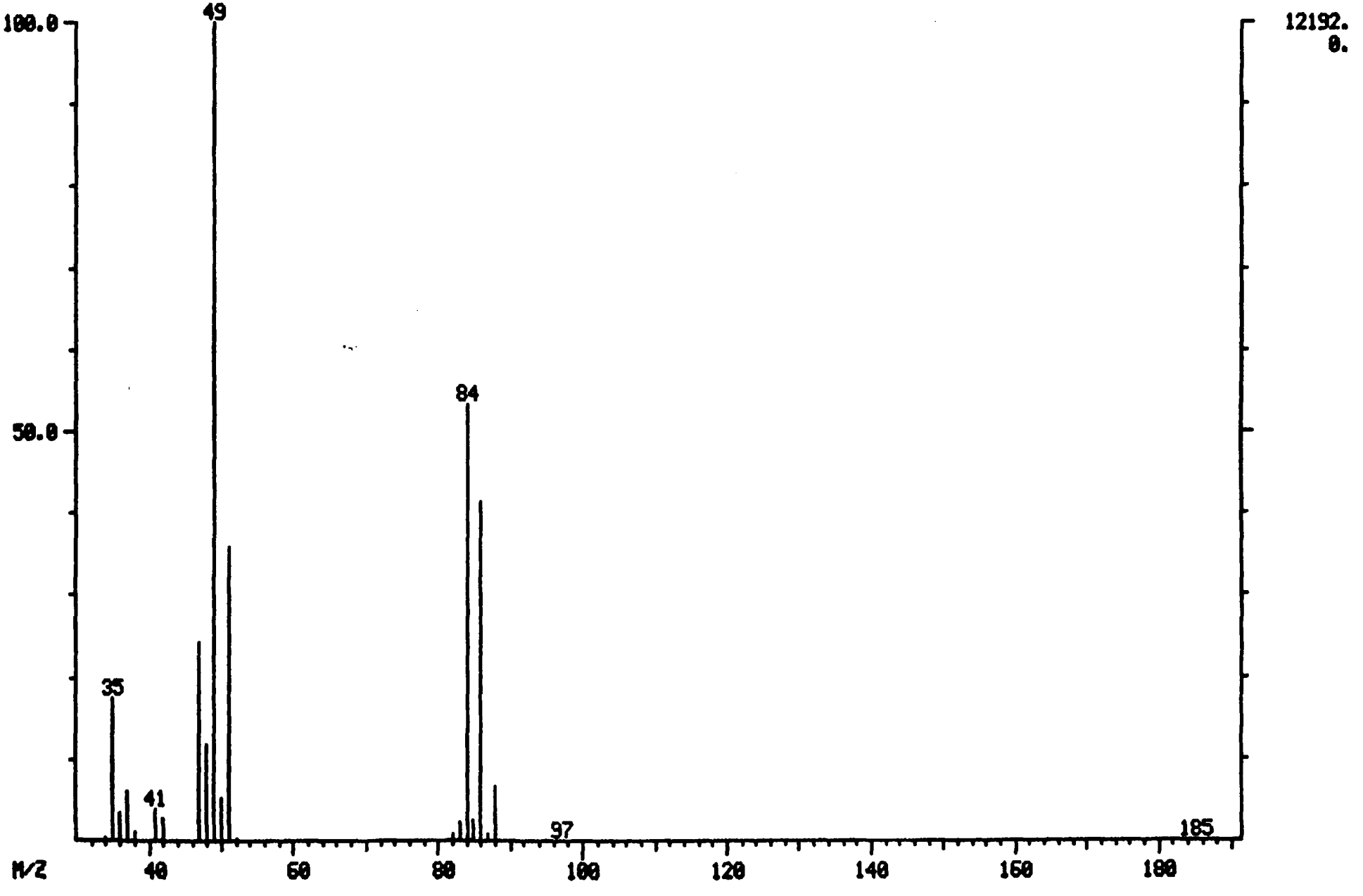
BASE M/Z: 64
RIC: 19136.



MASS SPECTRUM
05/04/89 12:56:00 + 6:36
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 73 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #198
CALI: IC30504 #3

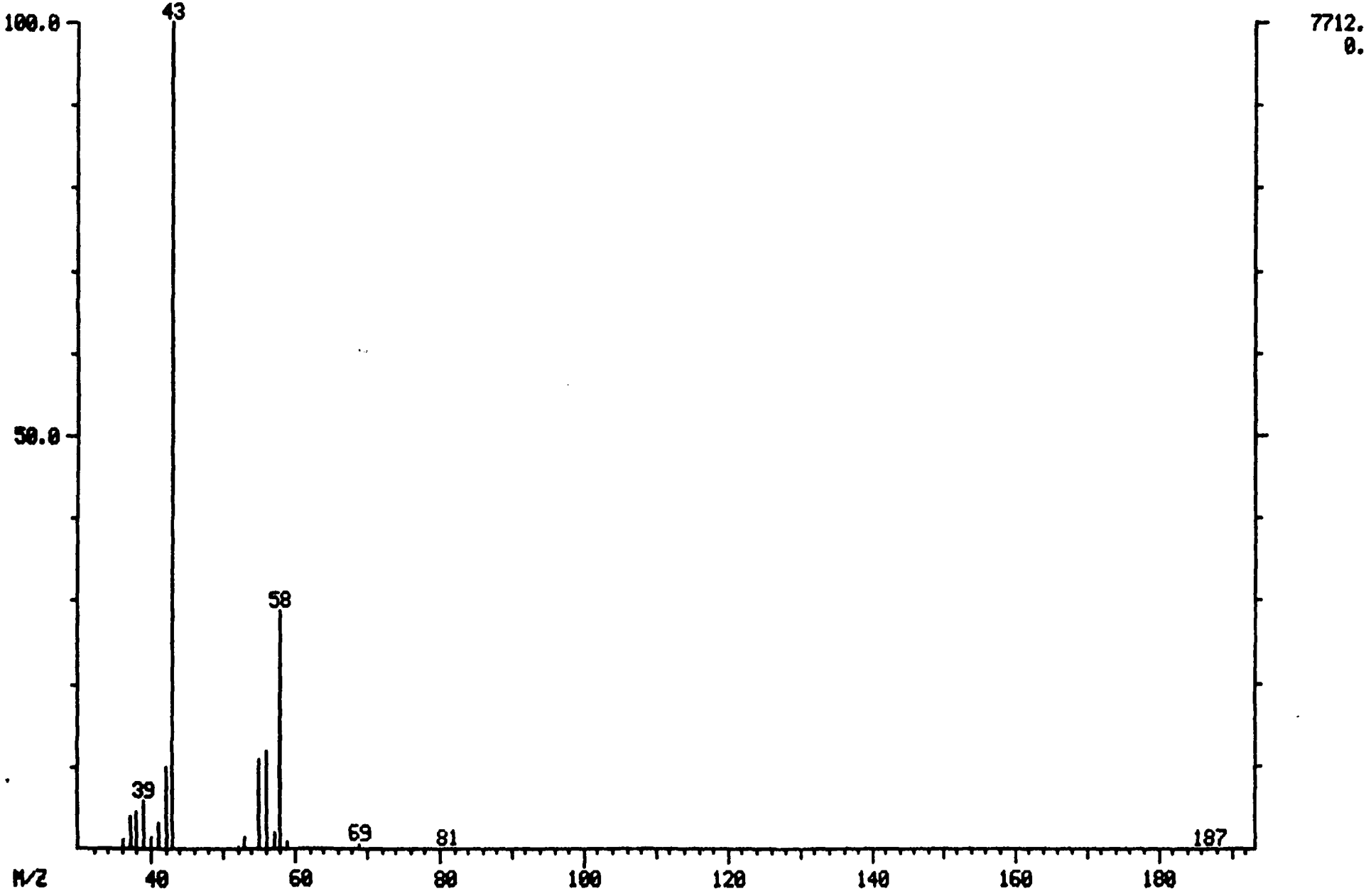
BASE M/Z: 49
RIC: 39104.



MASS SPECTRUM
05/04/89 12:56:00 + 7:10
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 77 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #215
CALI: IC30504 #3

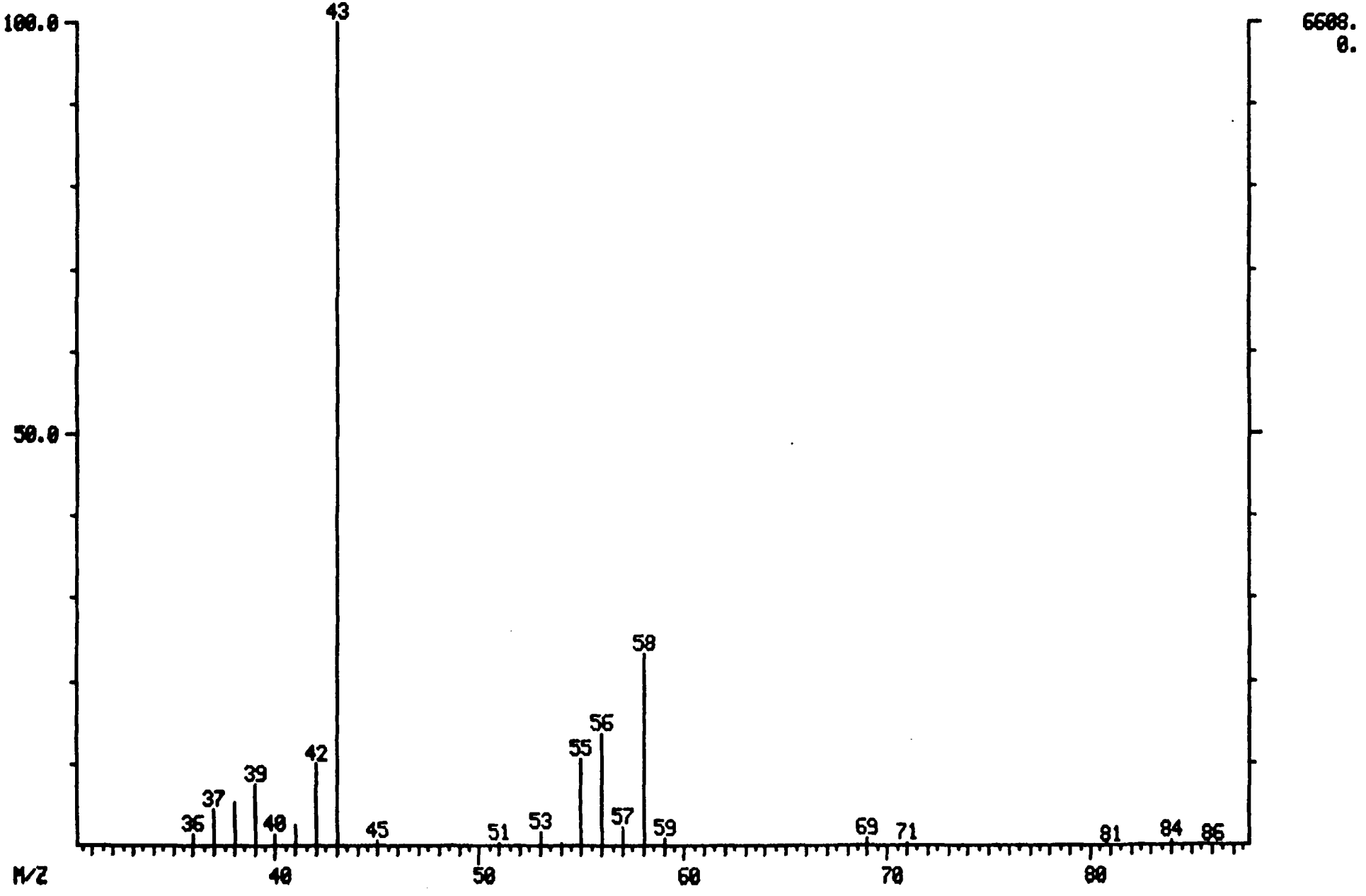
BASE M/Z: 43
RIC: 14352.



MASS SPECTRUM
05/04/89 12:56:00 + 7:12
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 78 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #216
CALI: IC30504 #3

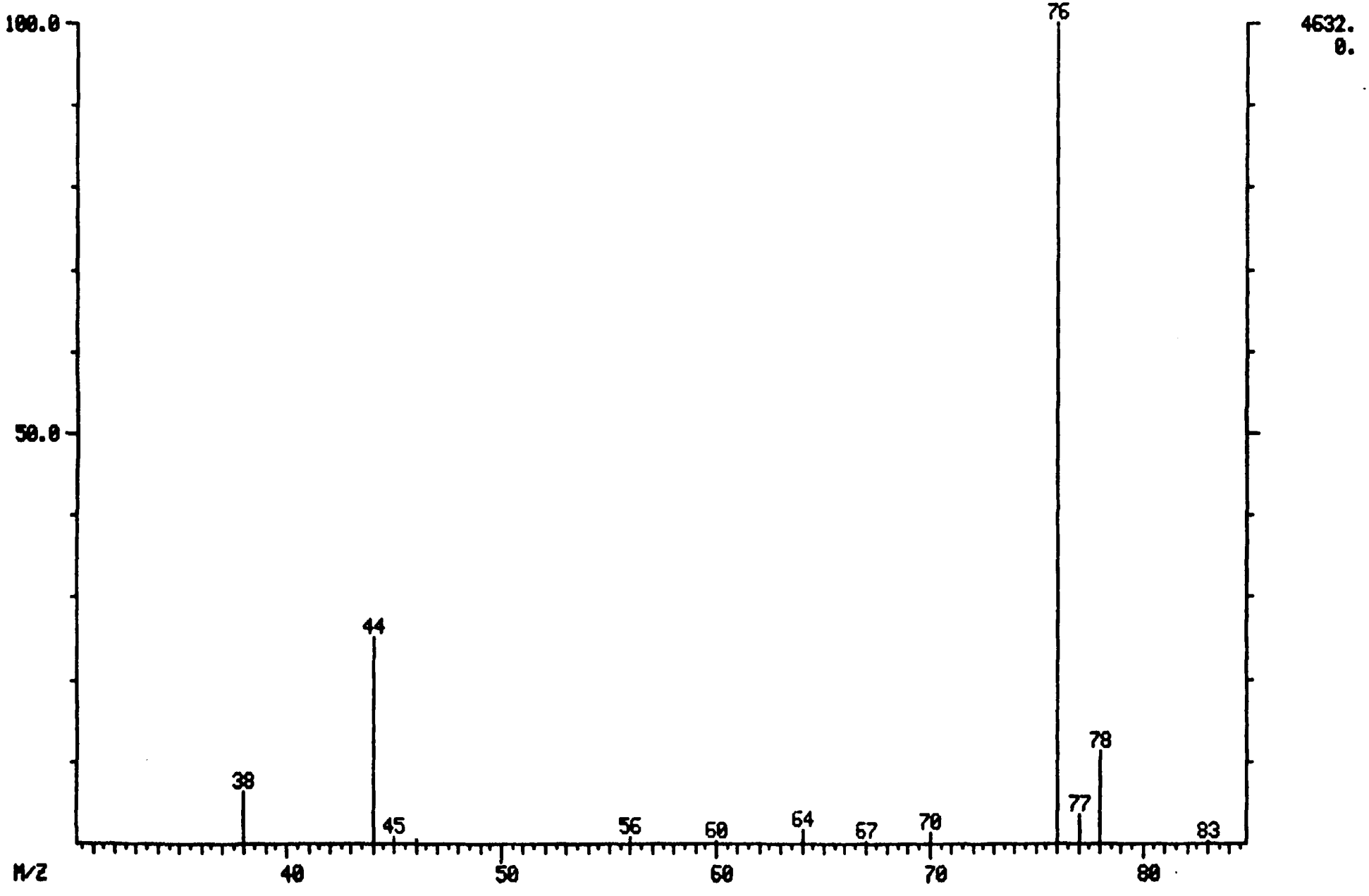
BASE M/Z: 43
RIC: 12400.



MASS SPECTRUM
05/04/89 12:56:00 + 8:10
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 85 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #245
CALI: IC30504 #3

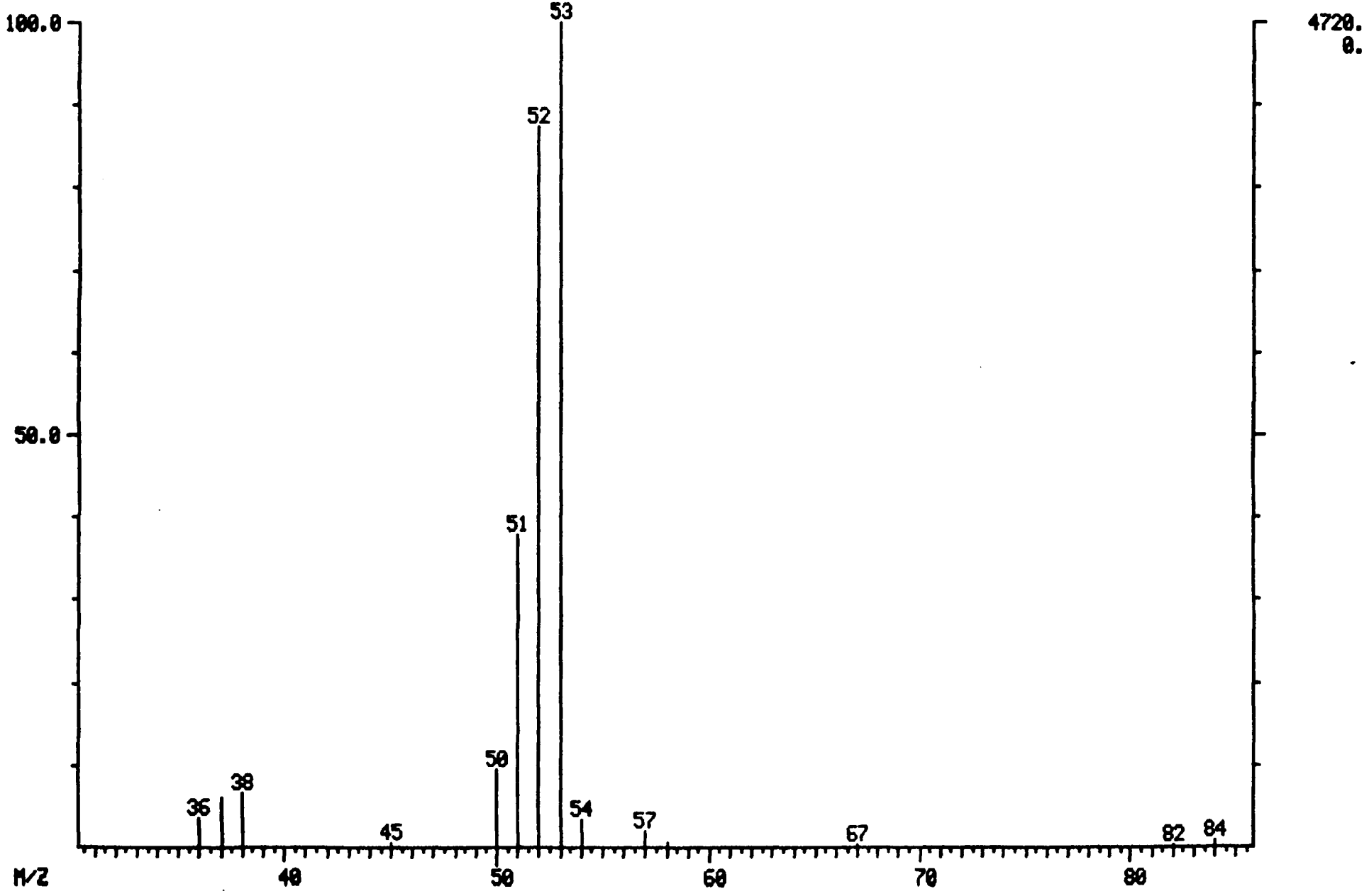
BASE M/Z: 76
RIC: 7048.



MASS SPECTRUM
05/04/89 12:56:00 + 7:54
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #237
CALI: IC30504 #3

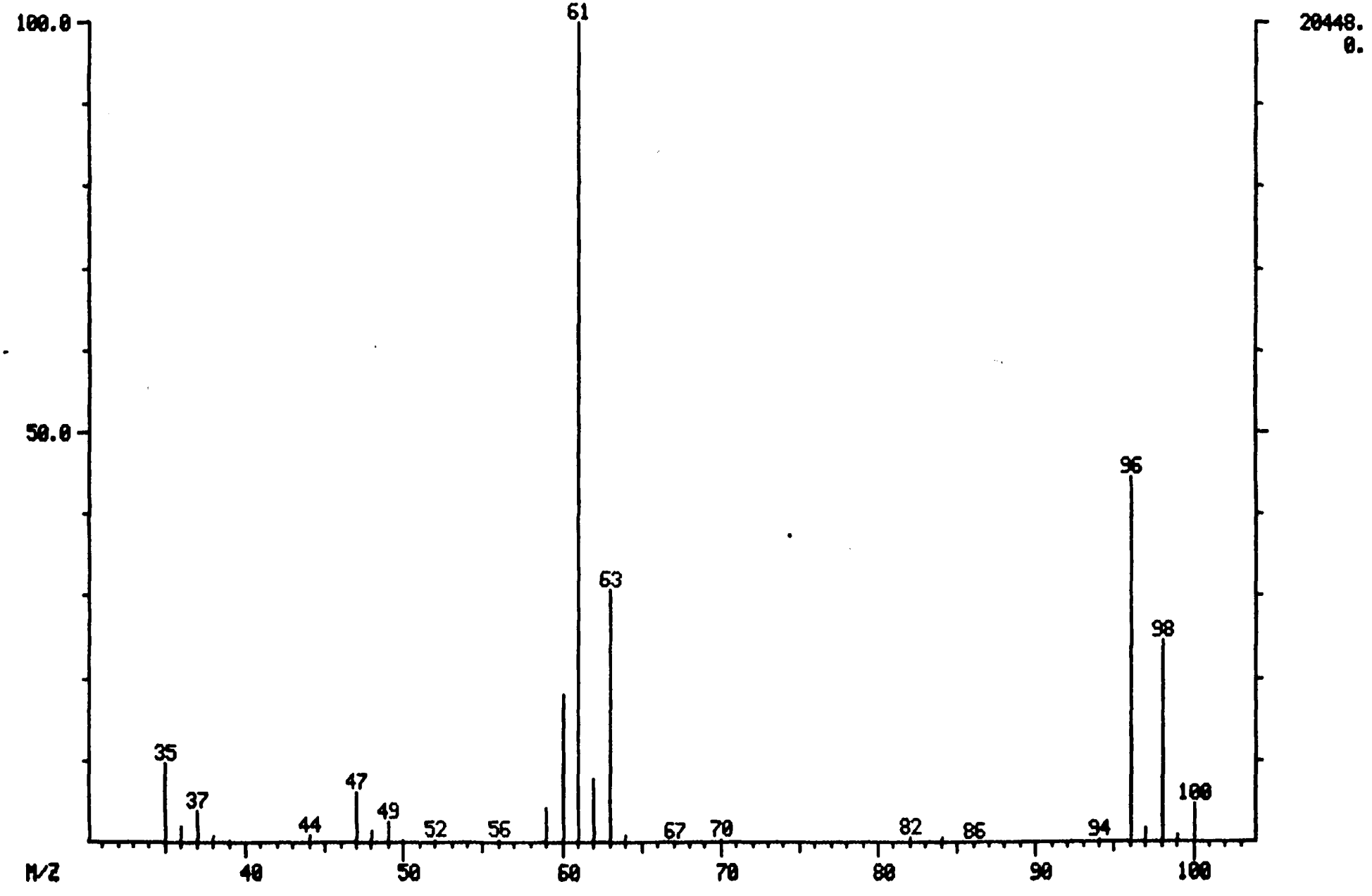
BASE M/Z: 53
RIC: 12224.



MASS SPECTRUM
05/04/89 12:56:00 + 9:24
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 95 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #282
CALI: IC30504 #3

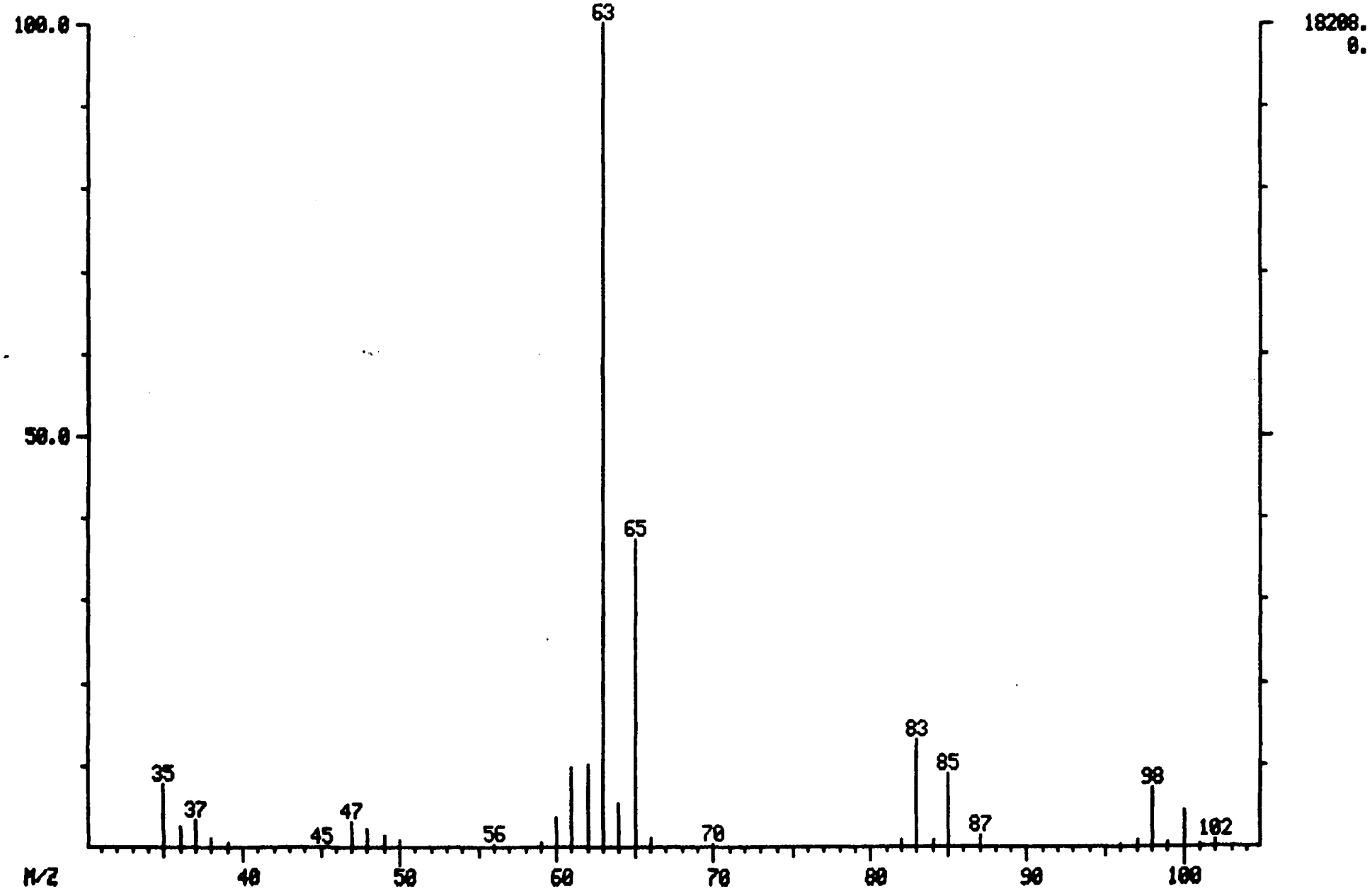
BASE M/Z: 61
RIC: 54720.



MASS SPECTRUM
05/04/89 12:56:00 + 10:42
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 106 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #321
CALI: IC30504 #3

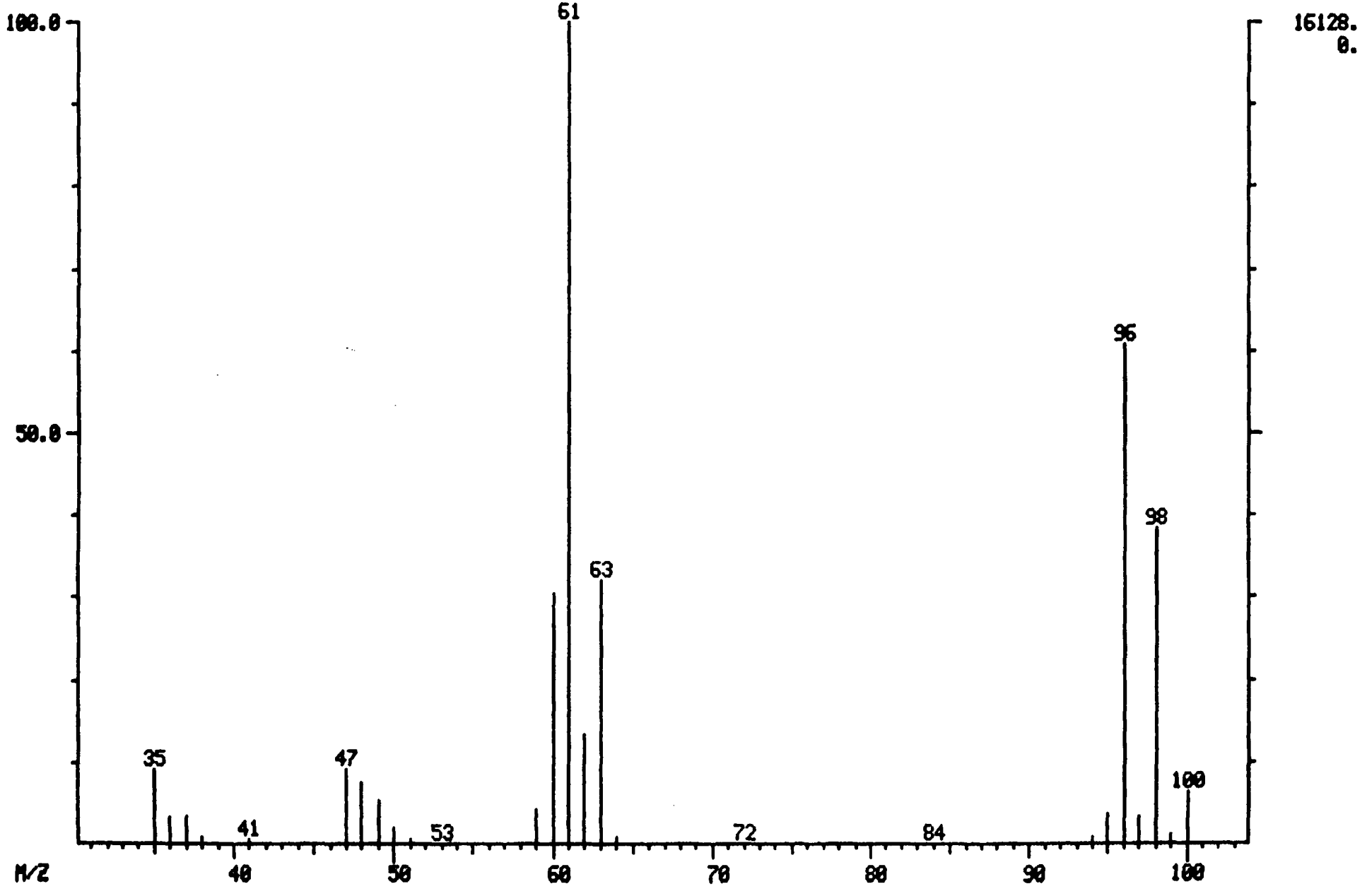
BASE M/Z: 63
RIC: 41792.



MASS SPECTRUM
05/04/89 12:56:00 + 11:26
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 111 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #343
CALI: IC30504 #3

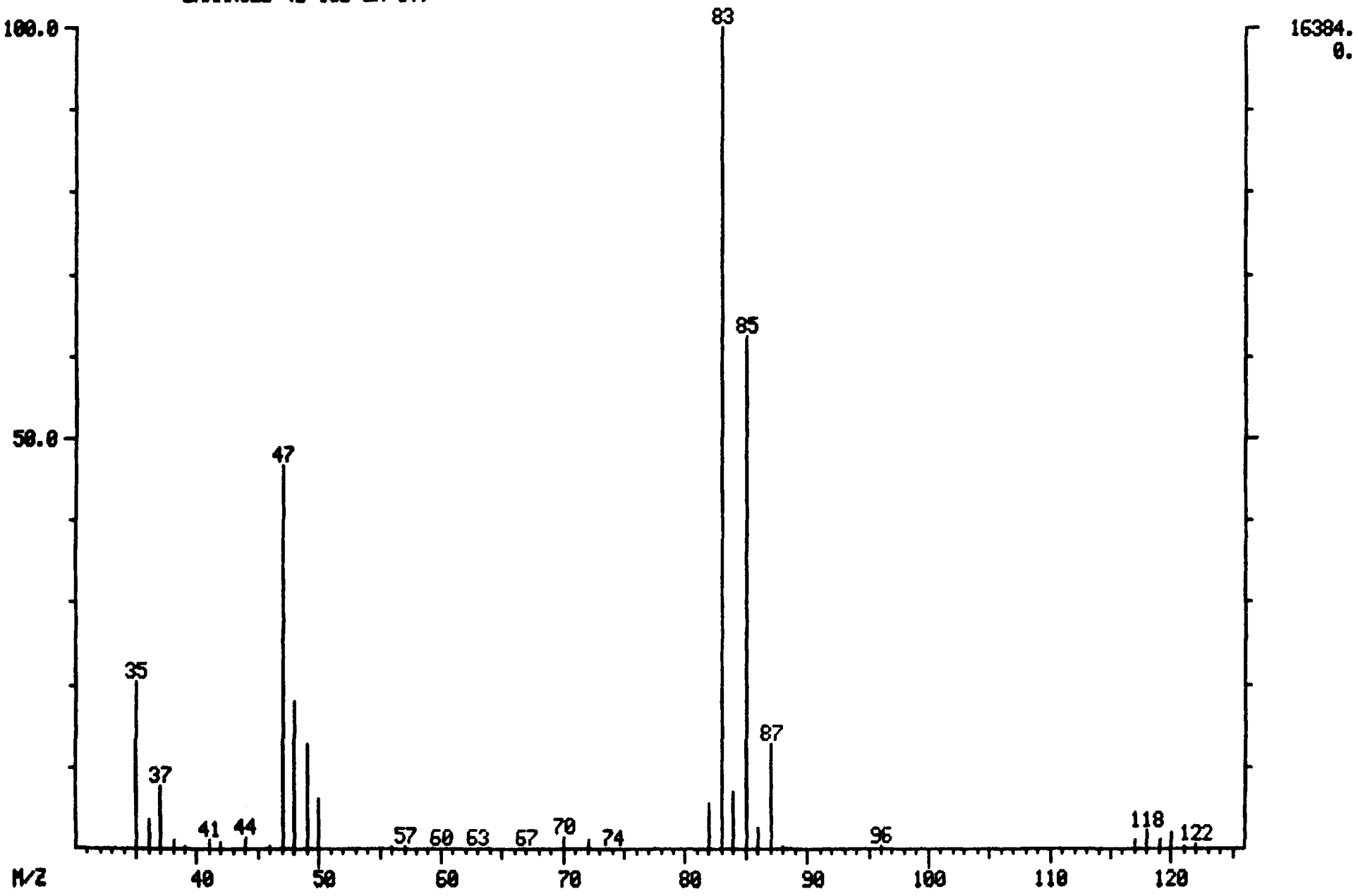
BASE M/Z: 61
RIC: 54336.



MASS SPECTRUM
05/04/89 12:56:00 + 12:04
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 116 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #362
CALI: IC30504 #3

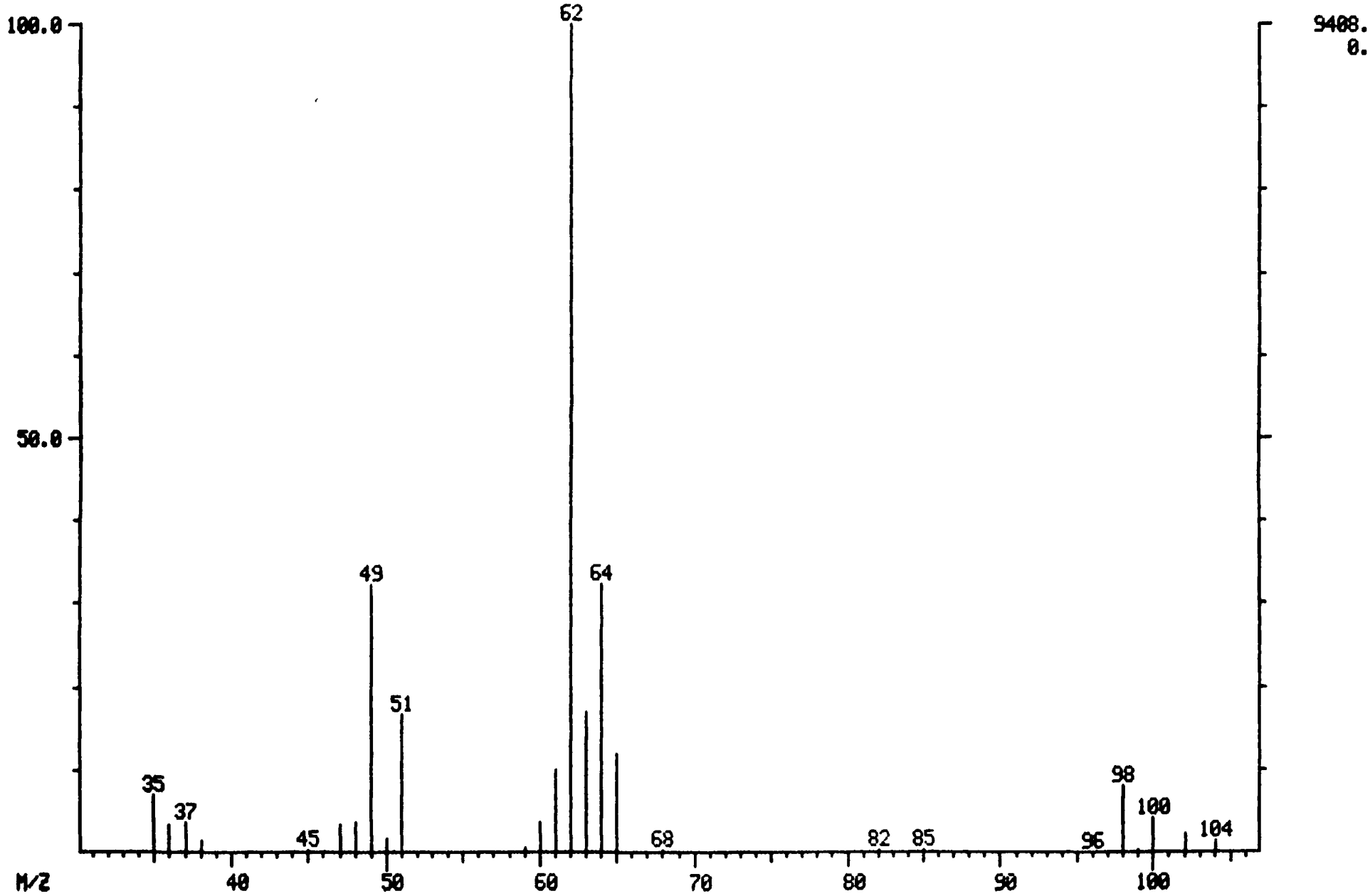
BASE M/Z: 83
RIC: 52672.



MASS SPECTRUM
05/04/89 12:56:00 + 12:46
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 122 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #383
CALI: IC30504 #3

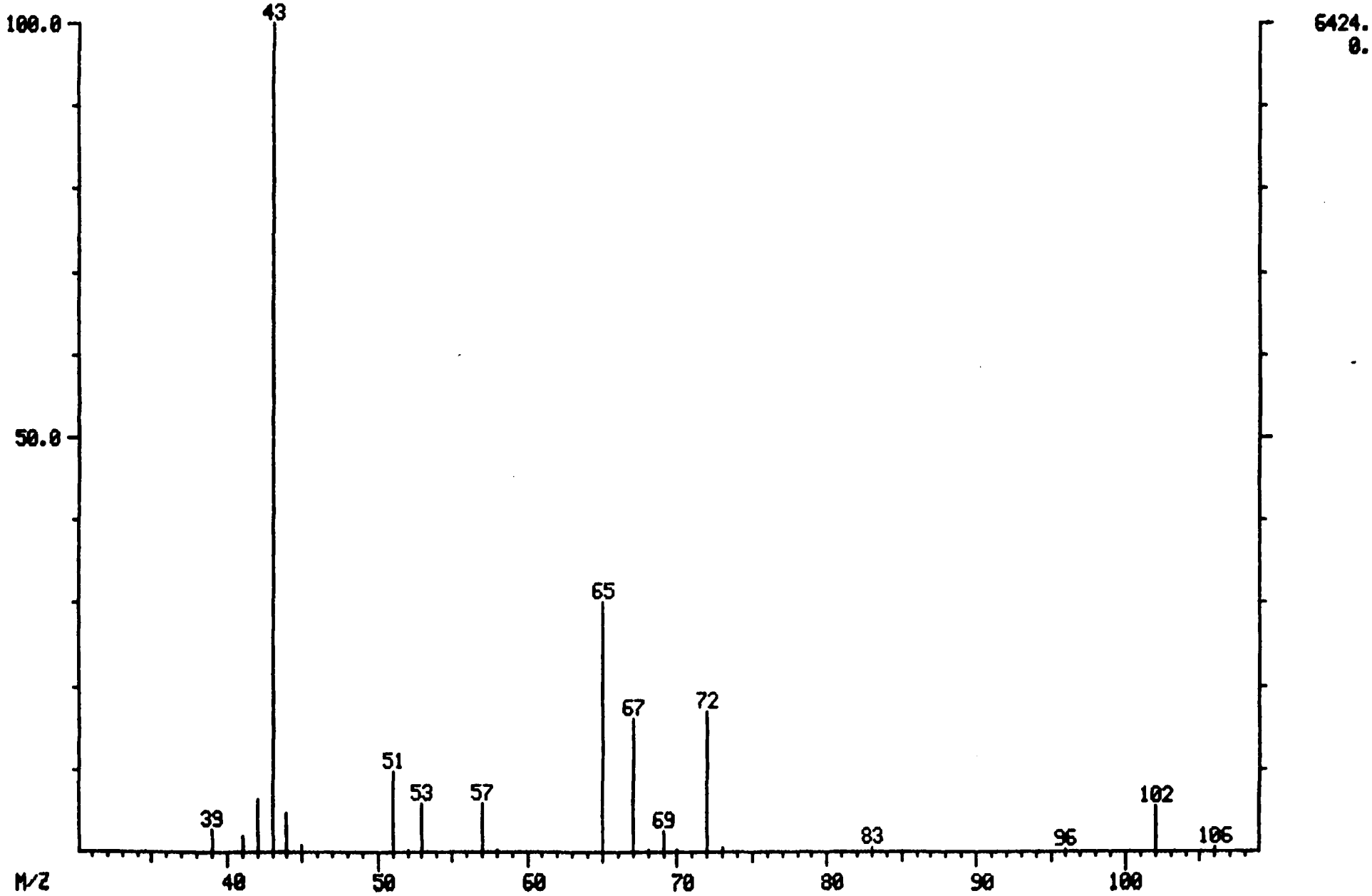
BASE M/Z: 62
RIC: 24896.



MASS SPECTRUM
05/04/89 12:56:00 + 12:36
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 121 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #378
CALI: IC30504 #3

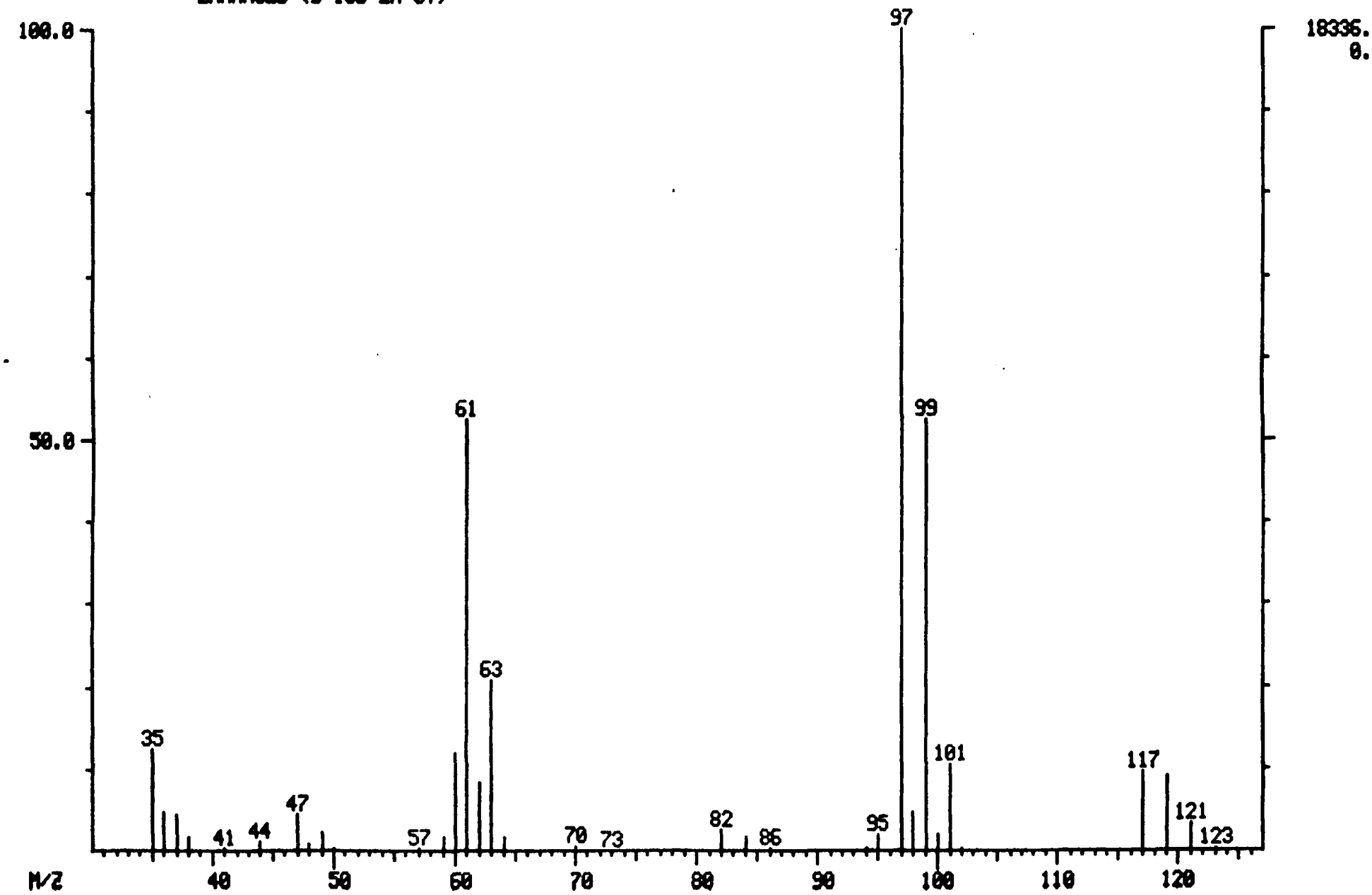
BASE M/Z: 43
RIC: 13632.



MASS SPECTRUM
05/04/89 12:56:00 + 14:04
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 132 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #422
CALI: IC30504 #3

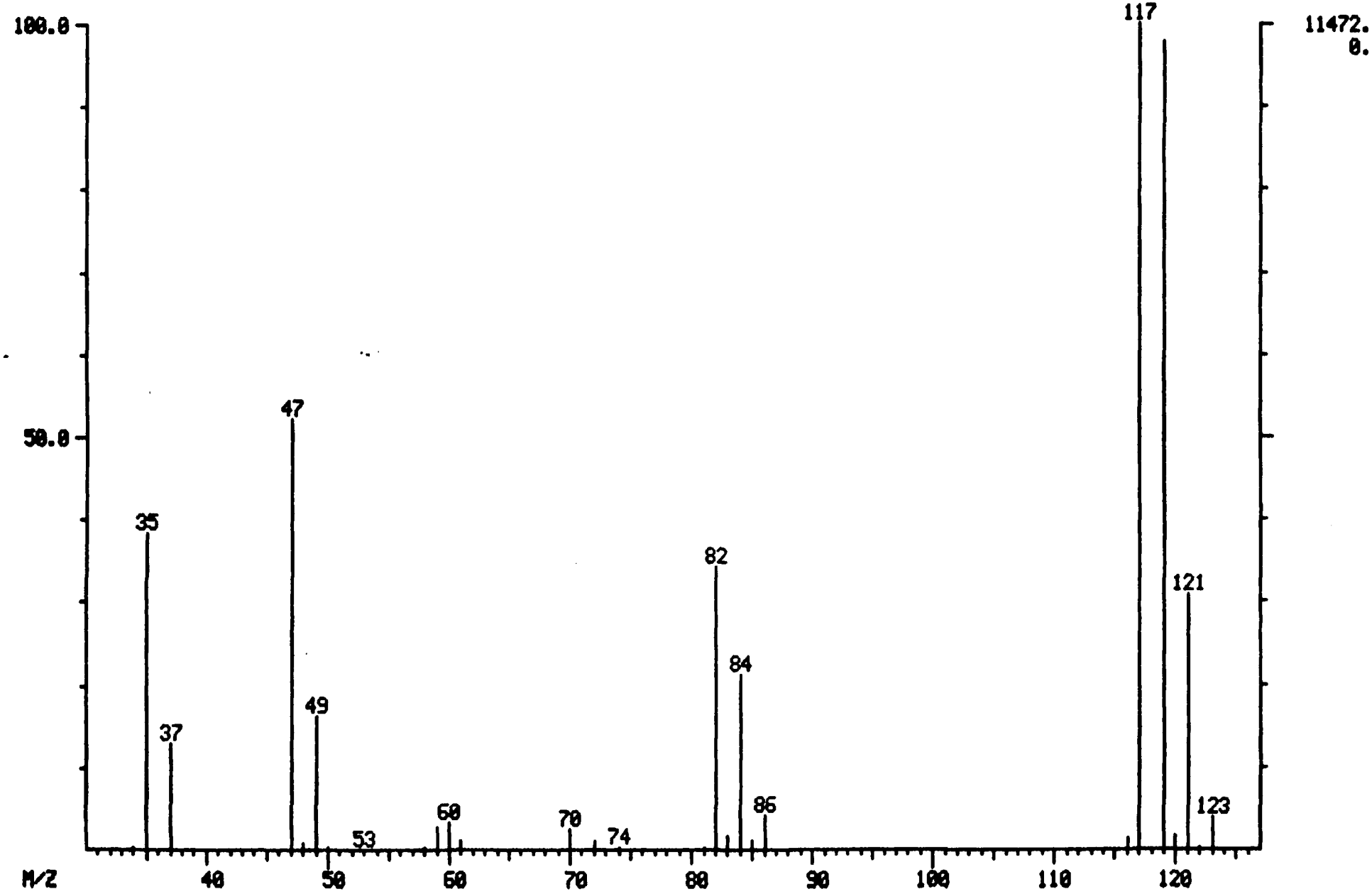
BASE M/Z: 97
RIC: 60352.



MASS SPECTRUM
05/04/89 12:56:00 + 14:28
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 136 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #434
CALI: IC30504 #3

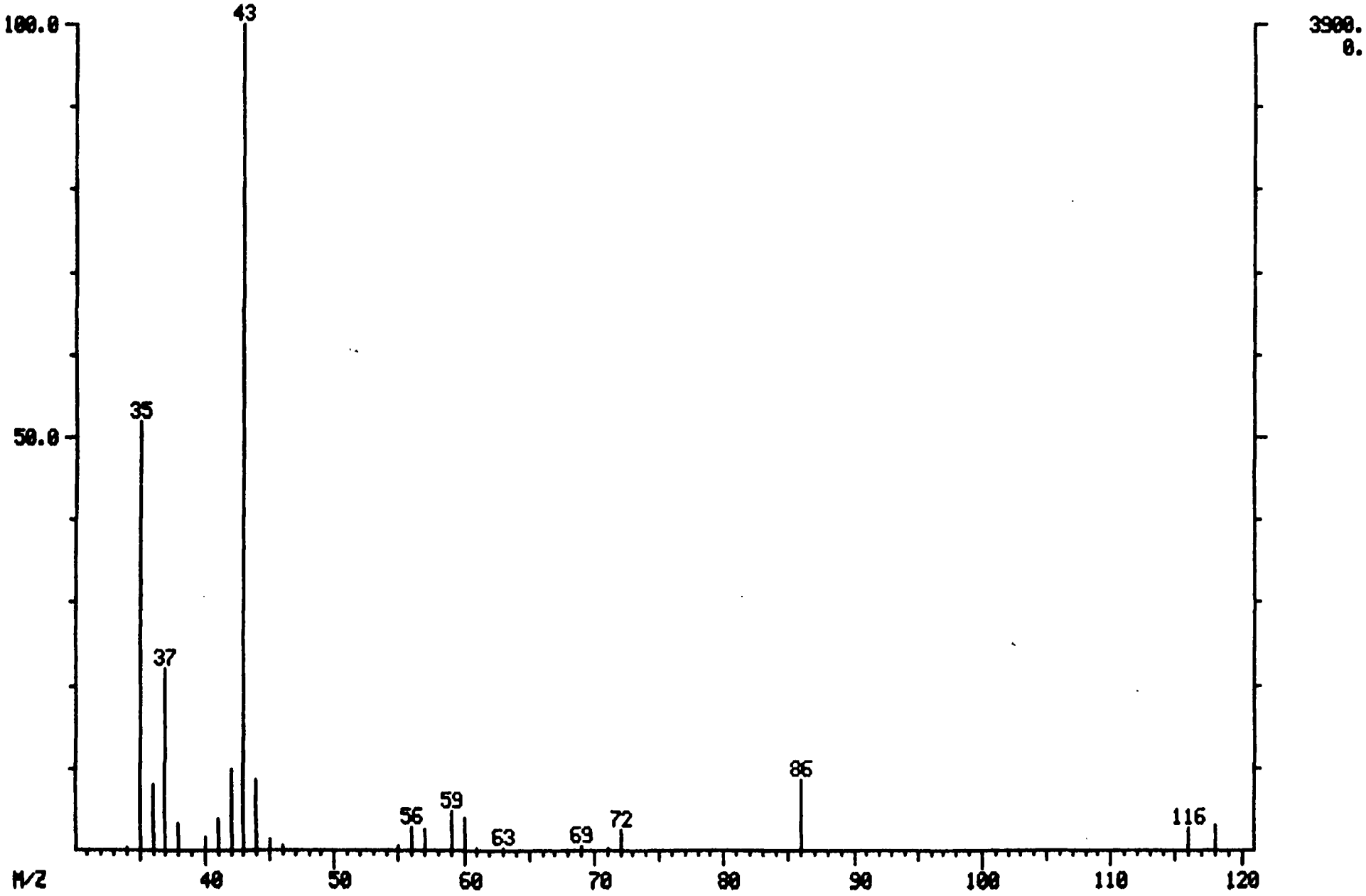
BASE M/Z: 117
RIC: 49408.



MASS SPECTRUM
05/04/89 12:56:00 + 14:34
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 137 DEG. C
ENHANCED (S 158 2N 0T)

DATA: IC30504 #437
CALI: IC30504 #3

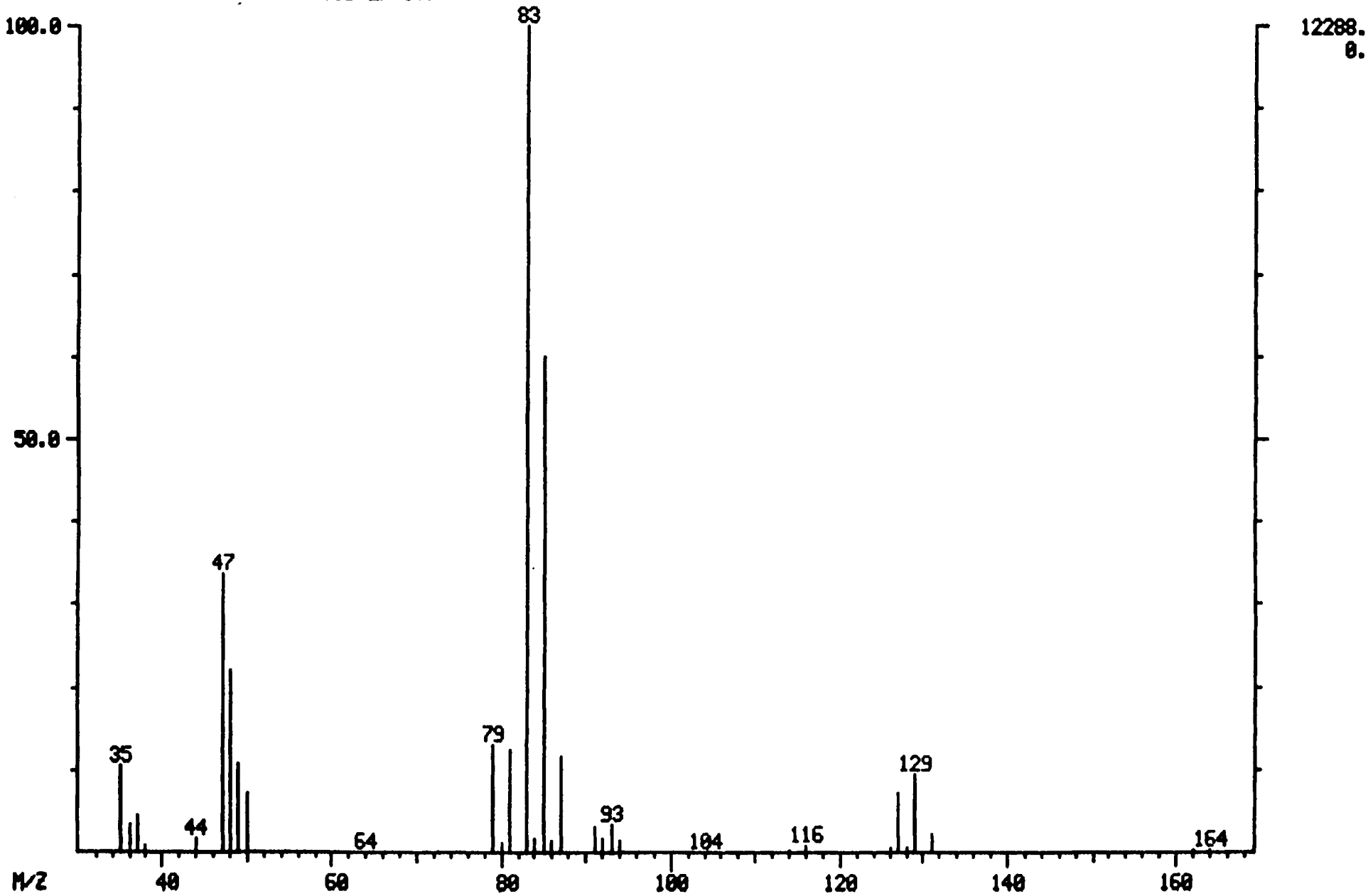
BASE M/Z: 43
RIC: 9552.



MASS SPECTRUM
05/04/89 12:56:00 + 15:00
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 140 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #450
CALI: IC30504 #3

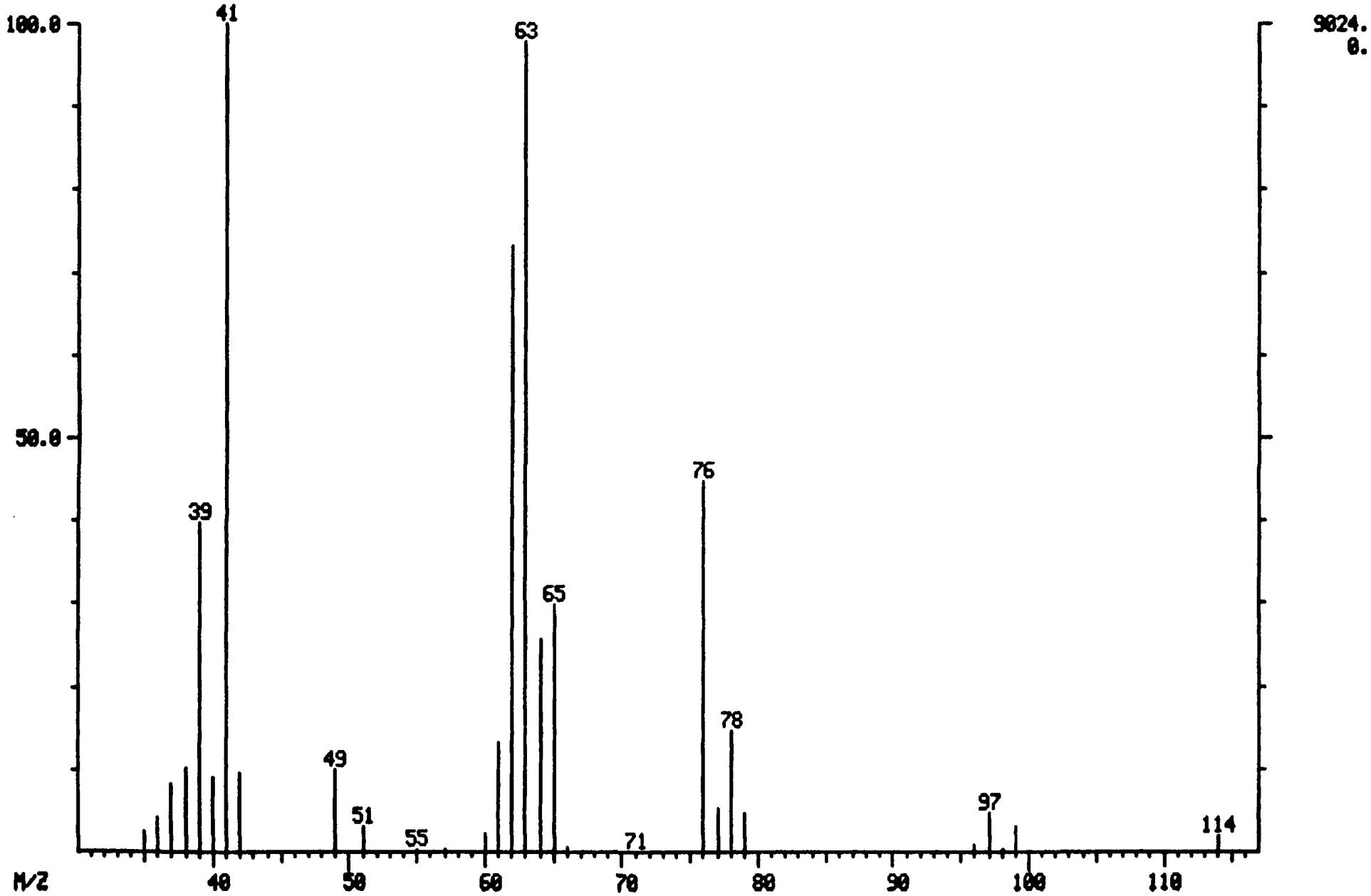
BASE M/Z: 83
RIC: 40000.



MASS SPECTRUM
05/04/89 12:56:00 + 16:22
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 151 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #491
CALI: IC30504 #3

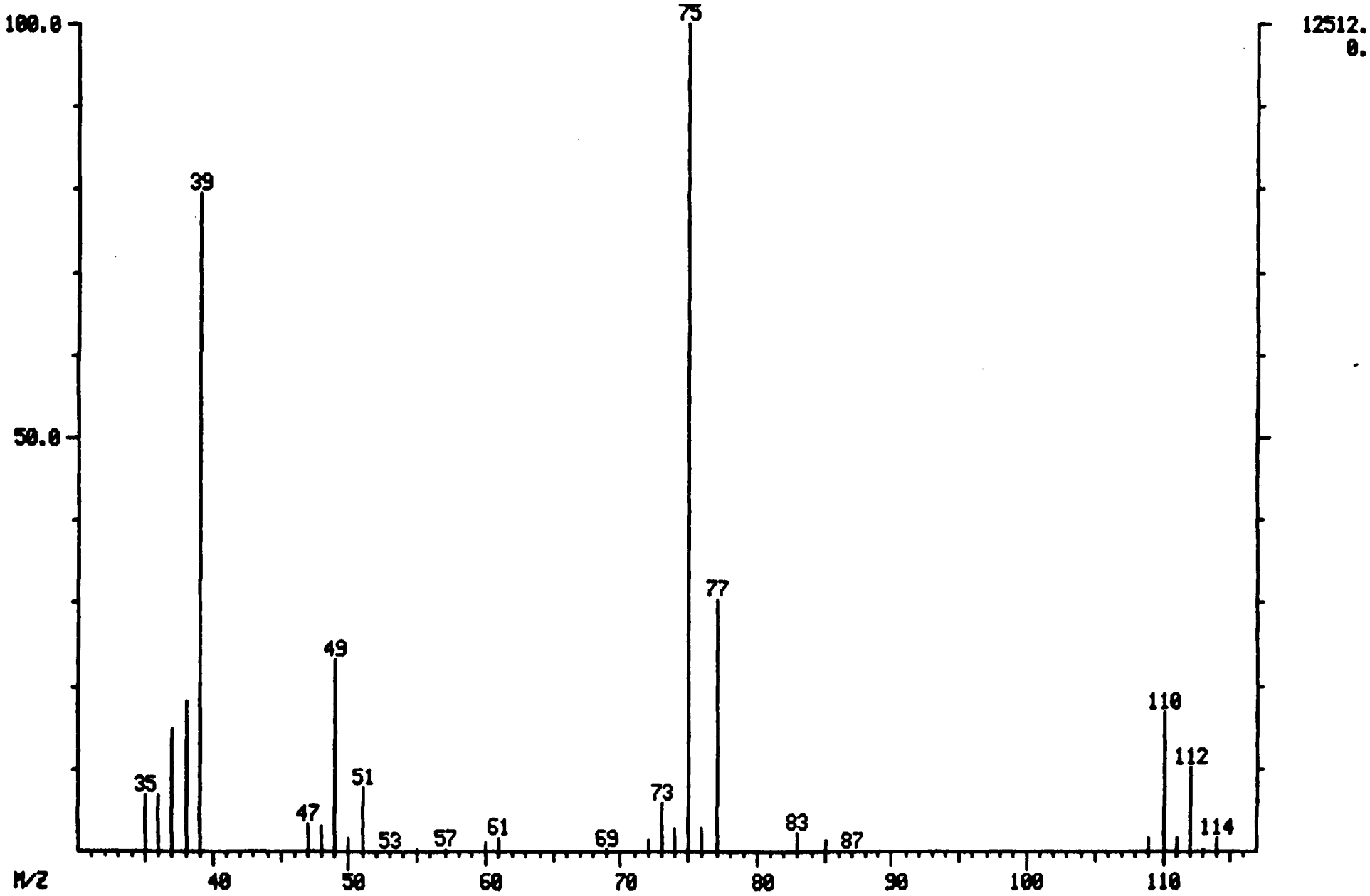
BASE M/Z: 41
RIC: 46976.



MASS SPECTRUM
05/04/89 12:56:00 + 16:38
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 153 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #499
CALI: IC30504 #3

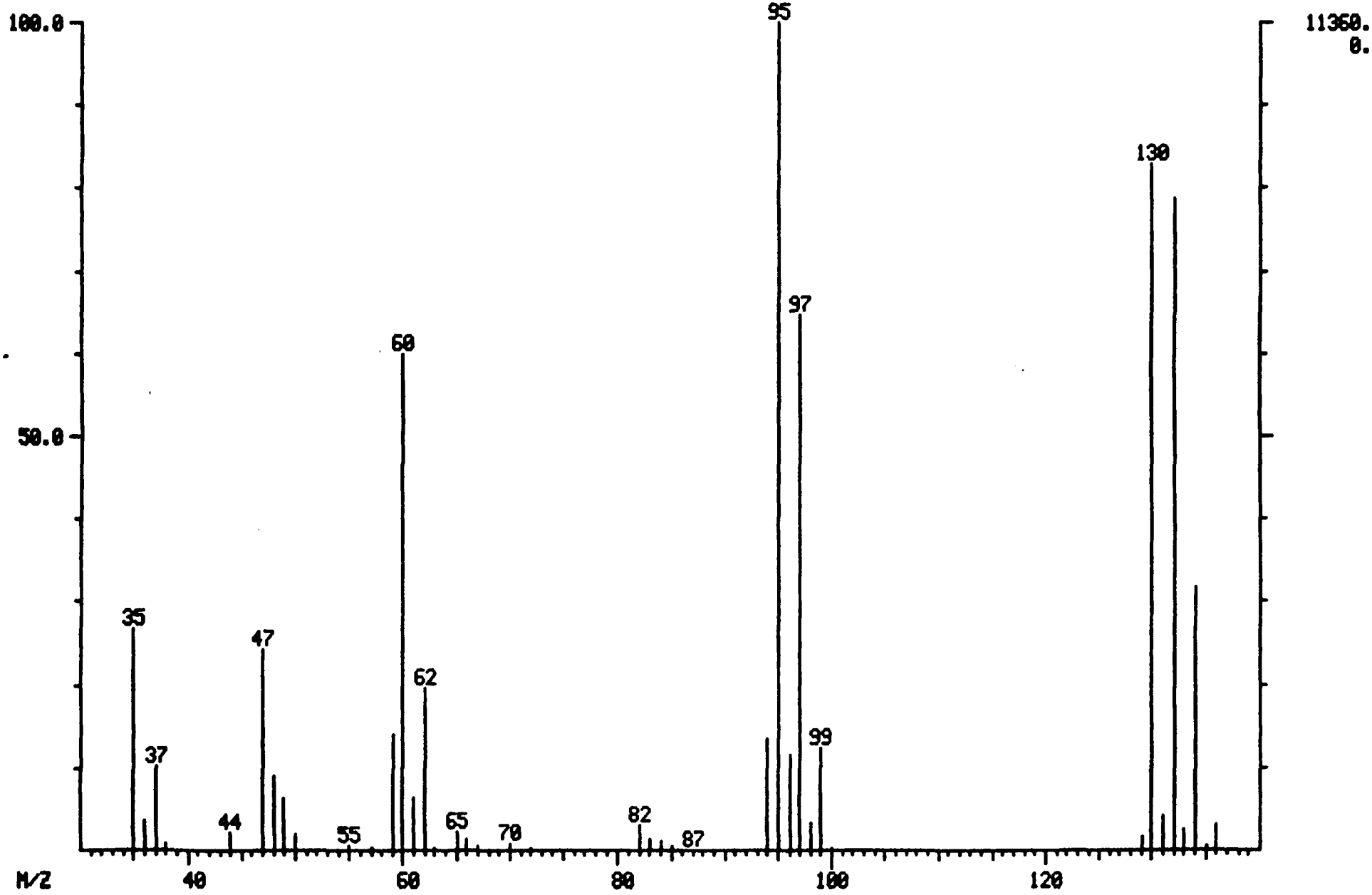
BASE M/Z: 75
RIC: 43712.



MASS SPECTRUM
05/04/89 12:56:00 + 17:10
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 157 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #515
CALI: IC30504 #3

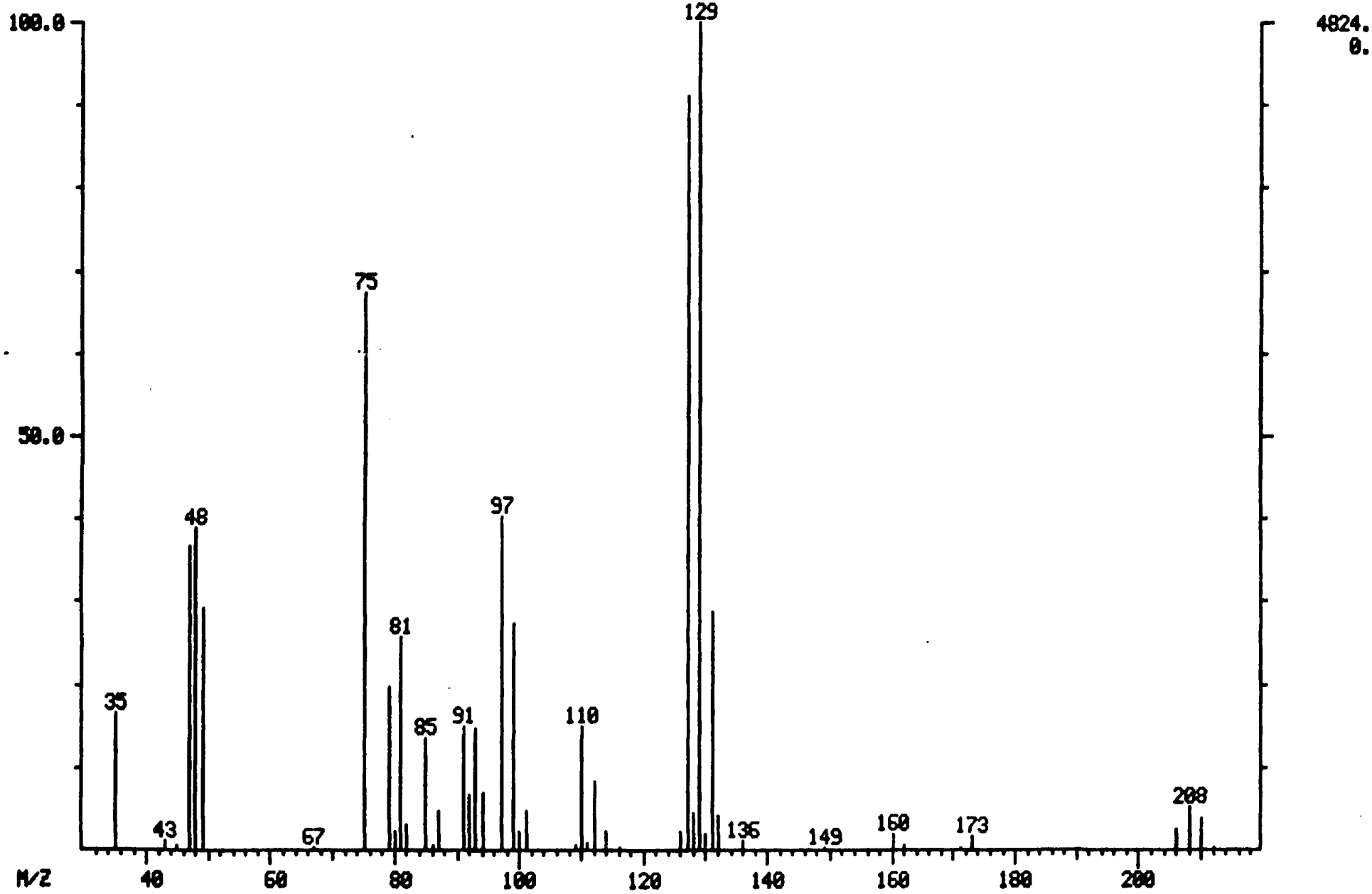
BASE M/Z: 95
RIC: 69248.



MASS SPECTRUM
05/04/89 12:56:00 + 17:50
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 163 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #535
CALI: IC30504 #3

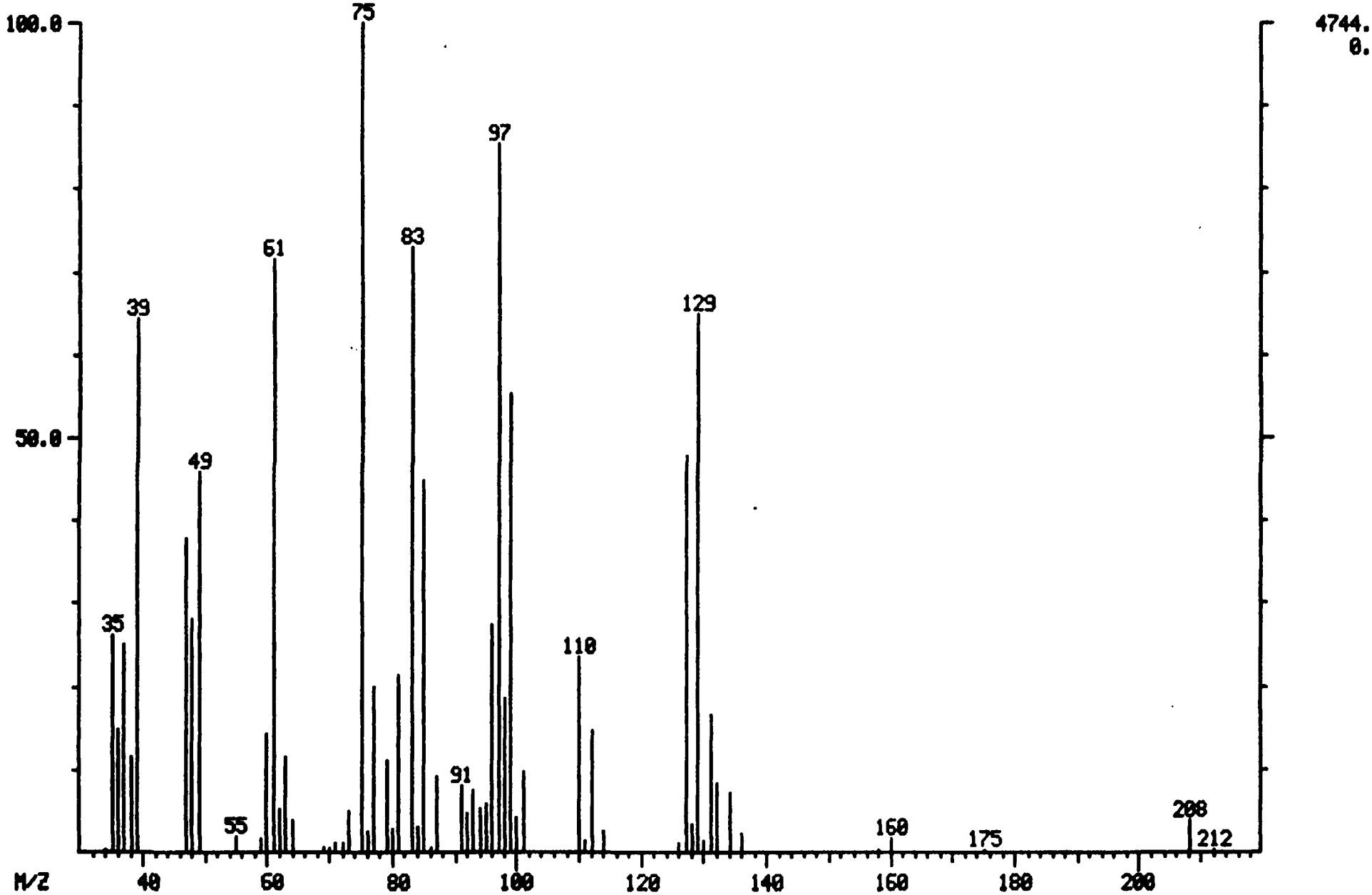
BASE M/Z: 129
RIC: 31648.



MASS SPECTRUM
05/04/89 12:56:00 + 17:54
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 163 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #537
CALI: IC30504 #3

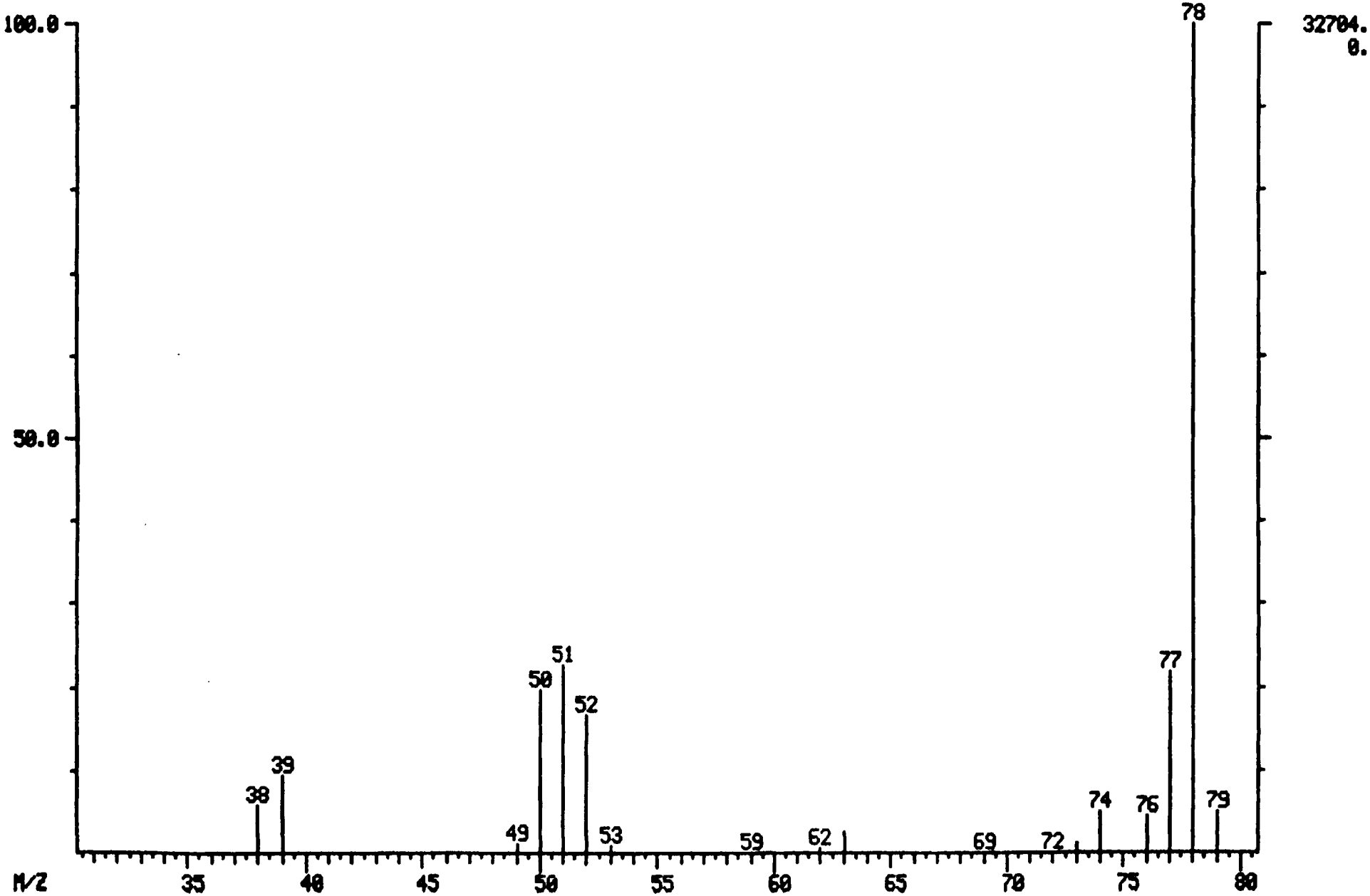
BASE M/Z: 75
RIC: 51840.



MASS SPECTRUM
05/04/89 12:56:00 + 17:40
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 161 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #530
CALI: IC30504 #3

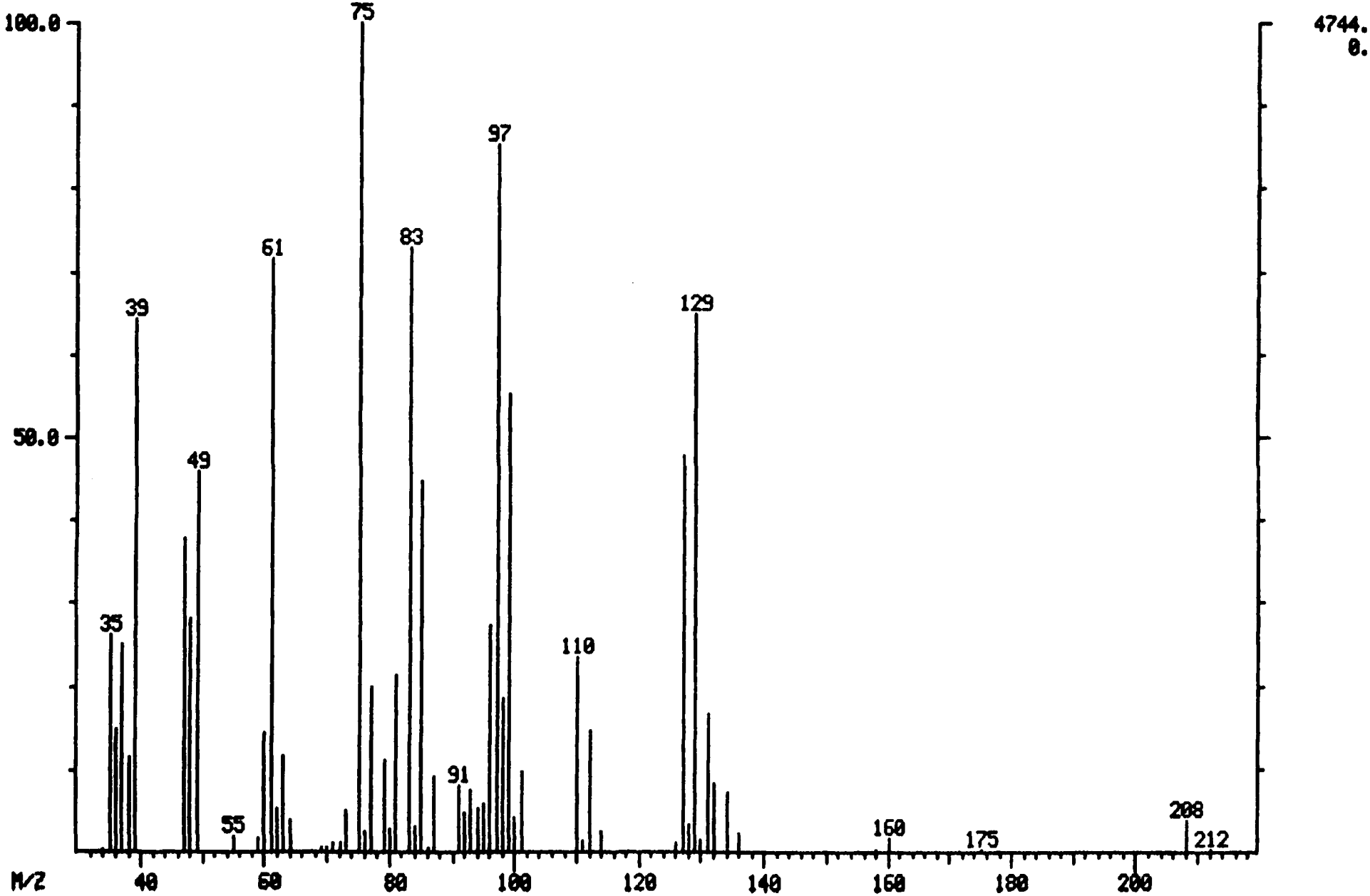
BASE M/Z: 78
RIC: 70912.



MASS SPECTRUM
05/04/89 12:56:00 + 17:54
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 163 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #537
CALI: IC30504 #3

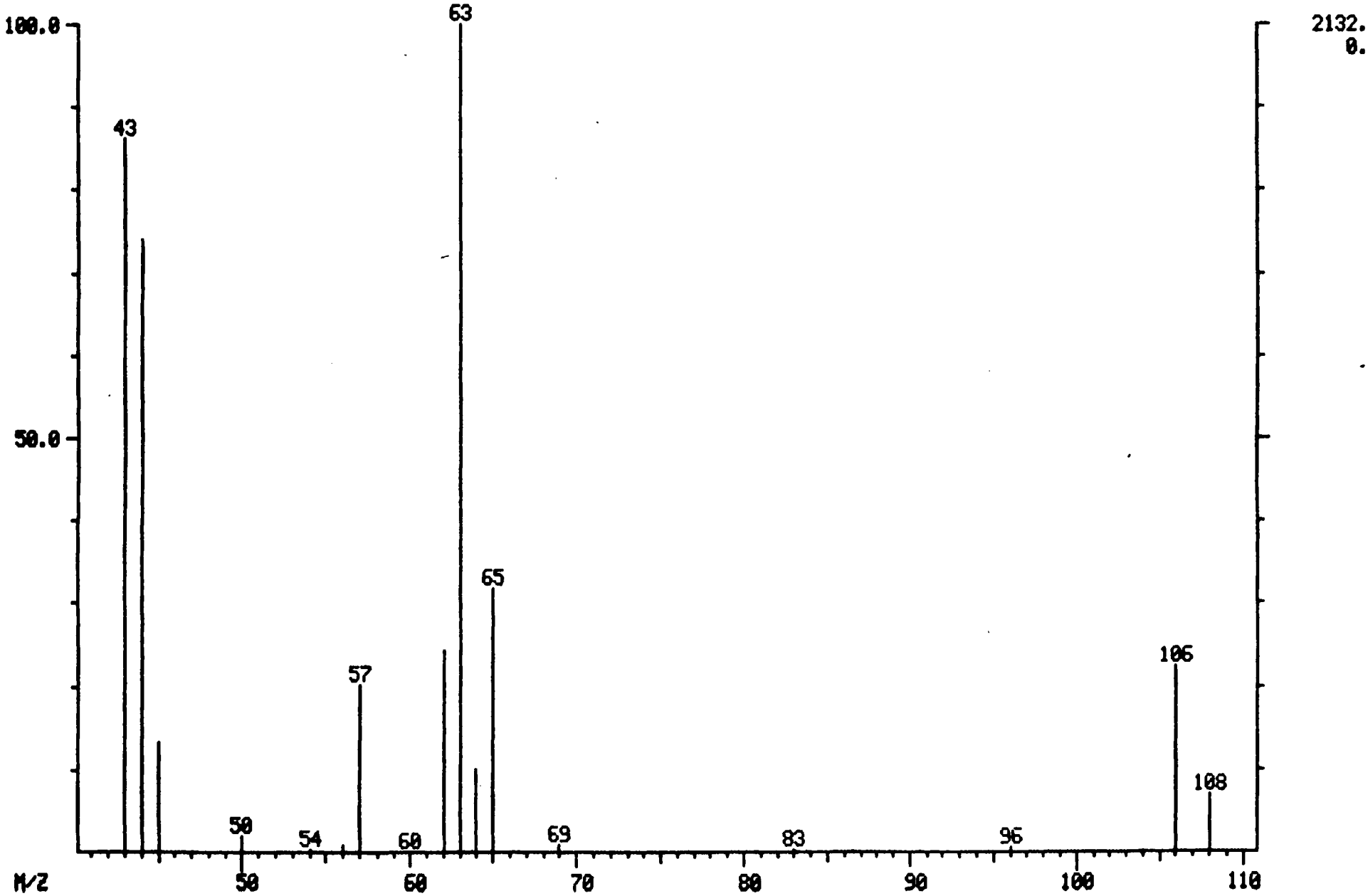
BASE M/Z: 75
RIC: 51840.



MASS SPECTRUM
05/04/89 12:56:00 + 18:58
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 172 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #569
CALI: IC30504 #3

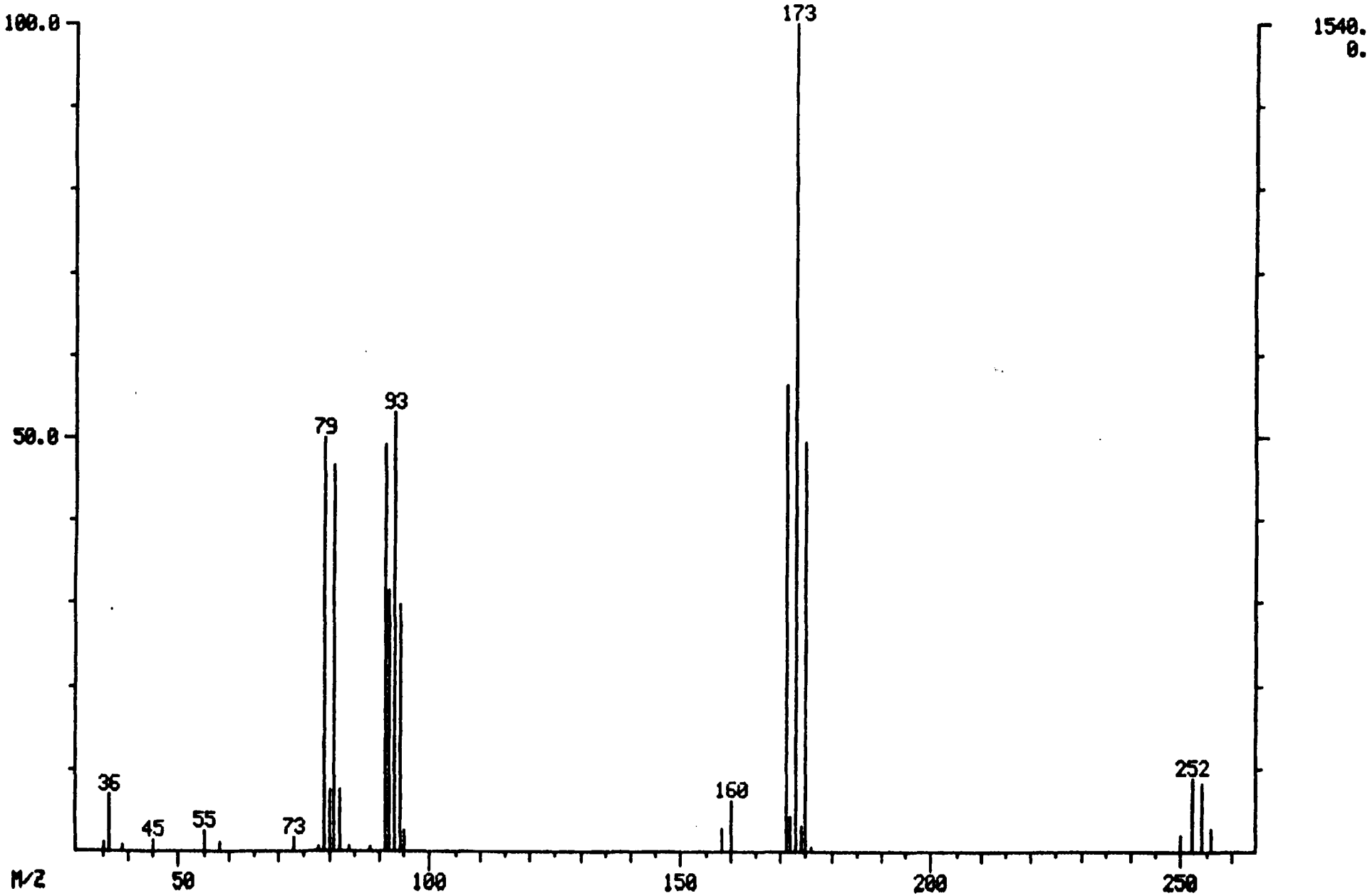
BASE M/Z: 63
RIC: 8400.



MASS SPECTRUM
05/04/89 12:56:00 + 20:34
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 184 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #617
CALI: IC30504 #3

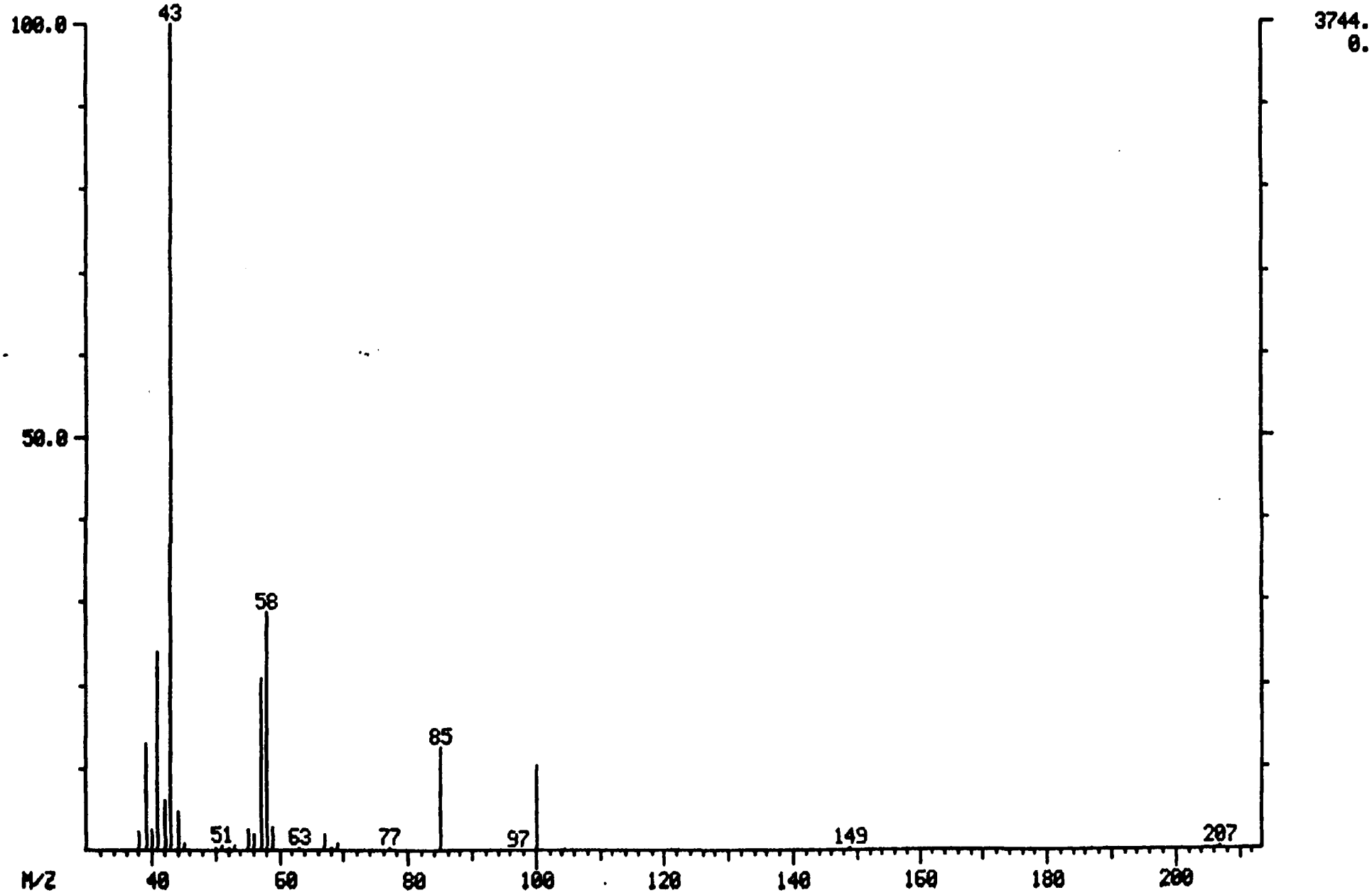
BASE M/Z: 173
RIC: 8304.



MASS SPECTRUM
05/04/89 12:56:00 + 20:58
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 188 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #629
CALI: IC30504 #3

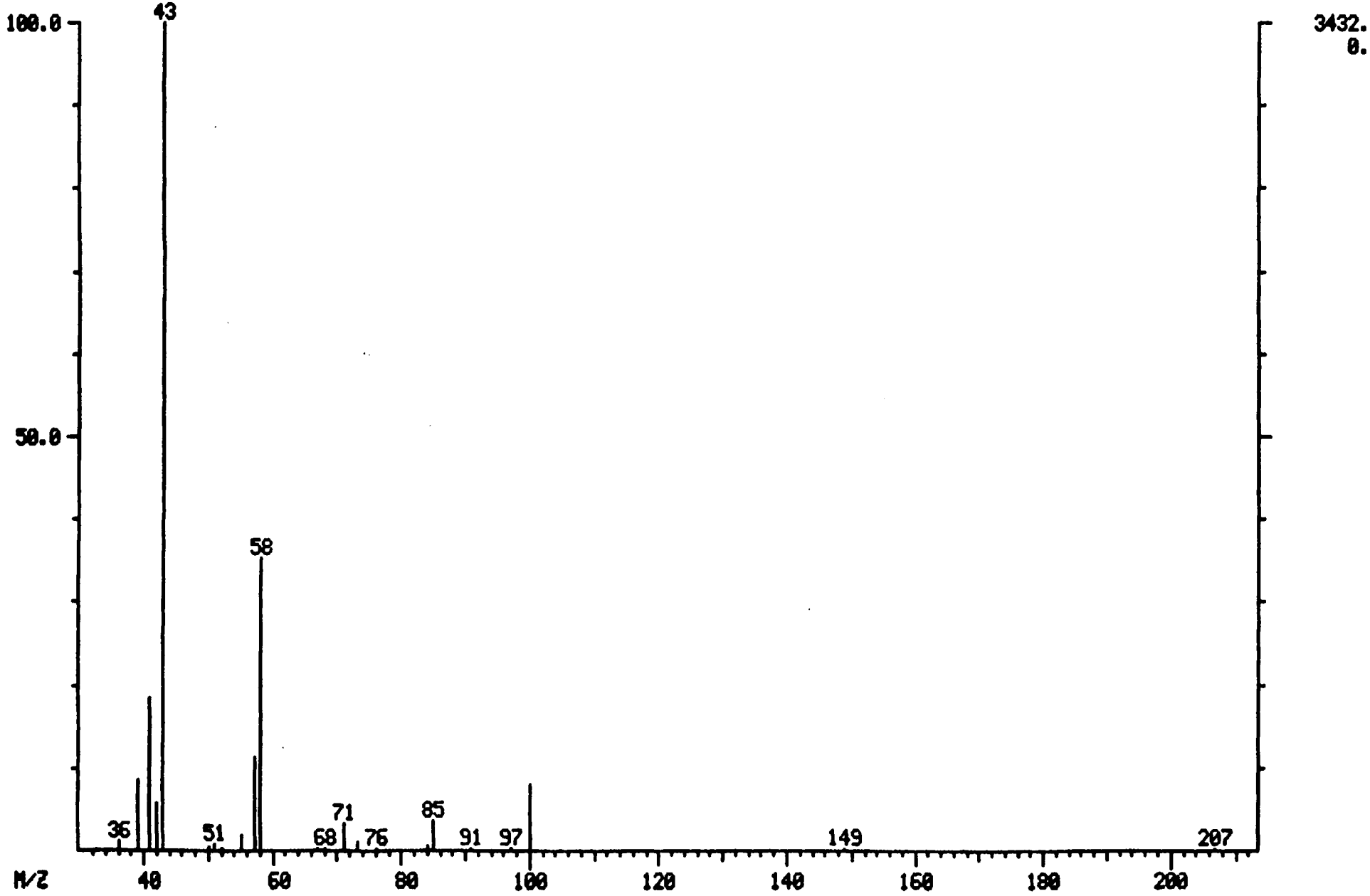
BASE M/Z: 43
RIC: 8976.



MASS SPECTRUM
05/04/89 12:56:00 + 22:30
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 200 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #675
CALI: IC30504 #3

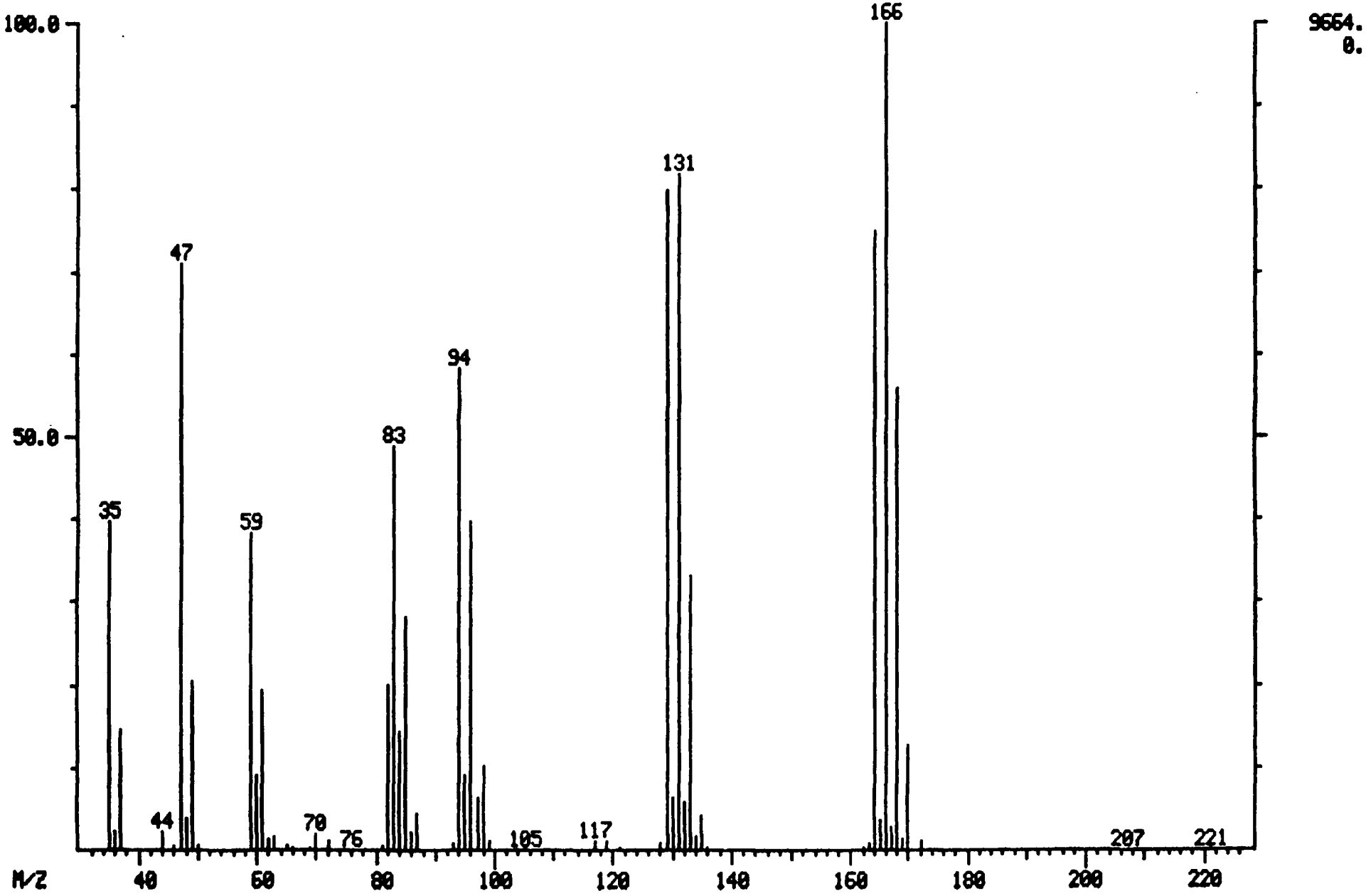
BASE M/Z: 43
RIC: 6960.



MASS SPECTRUM
05/04/89 12:56:00 + 22:50
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 203 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #685
CALI: IC30504 #3

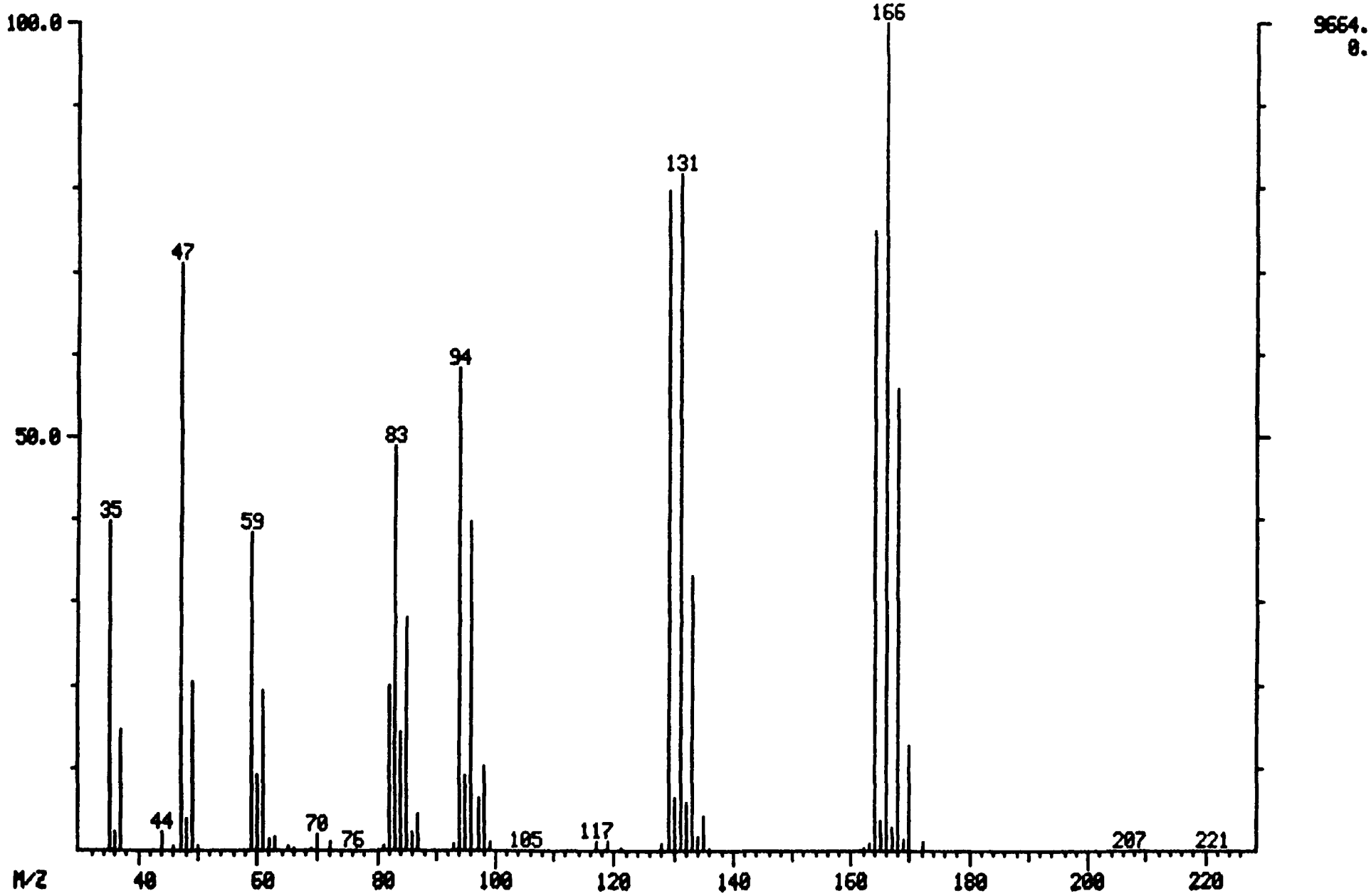
BASE M/Z: 166
RIC: 91264.



MASS SPECTRUM
05/04/89 12:56:00 + 22:50
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 203 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #685
CALI: IC30504 #3

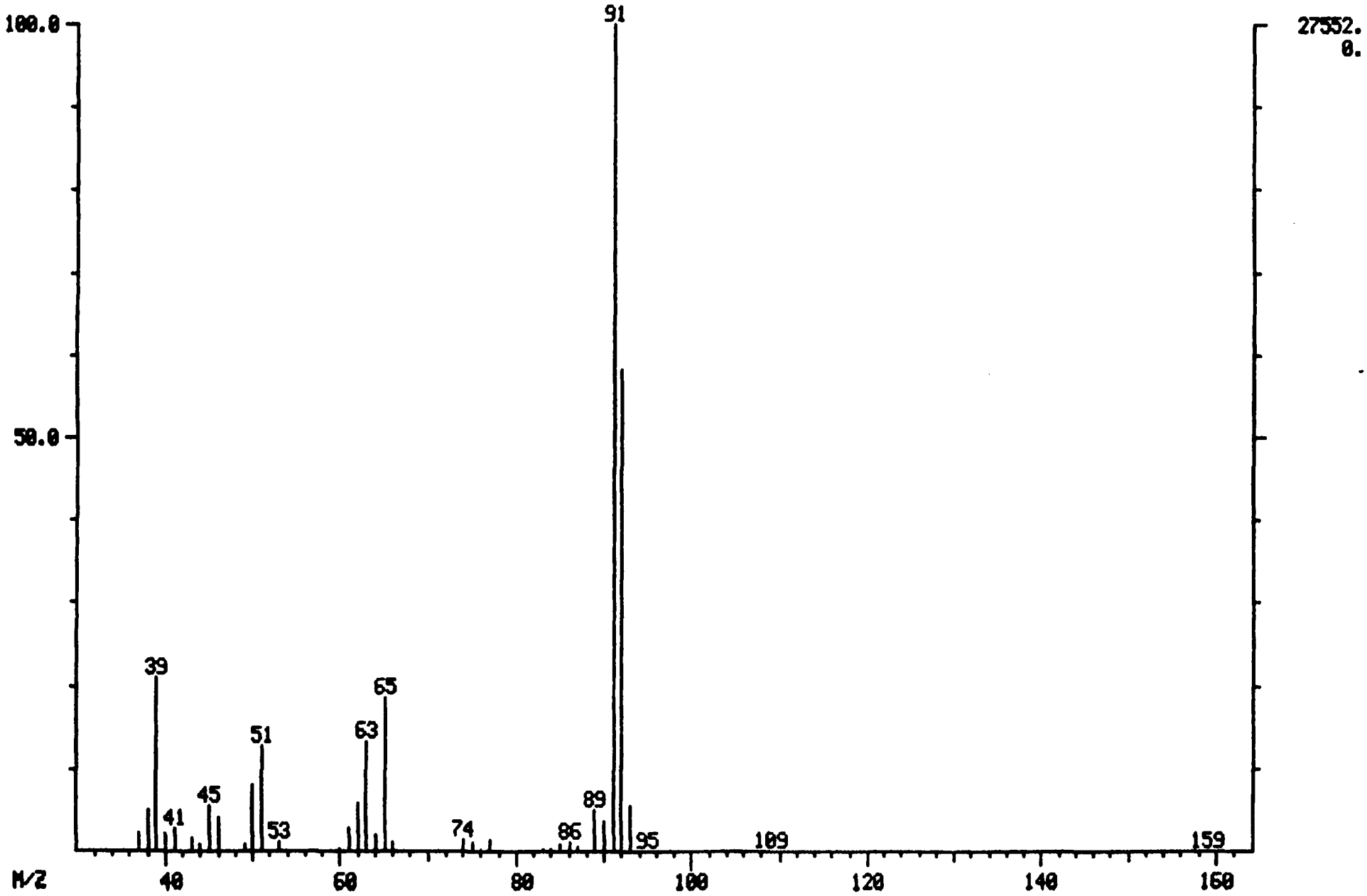
BASE M/Z: 166
RIC: 91264.



MASS SPECTRUM
05/04/89 12:56:00 + 24:08
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 213 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #724
CALI: IC30504 #3

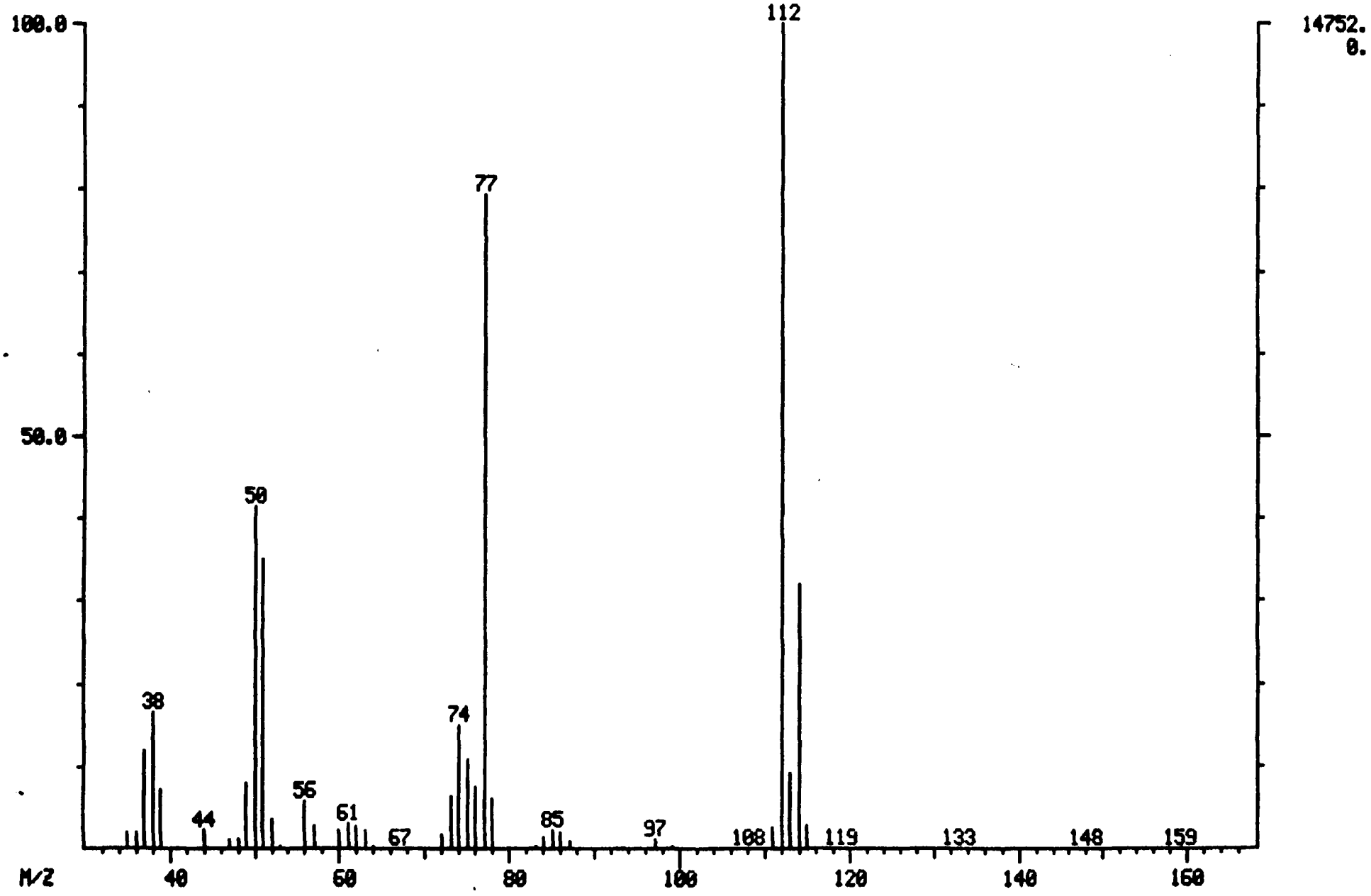
BASE M/Z: 91
RIC: 80384.



MASS SPECTRUM
05/04/89 12:56:00 + 25:18
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 220 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #759
CALI: IC30504 #3

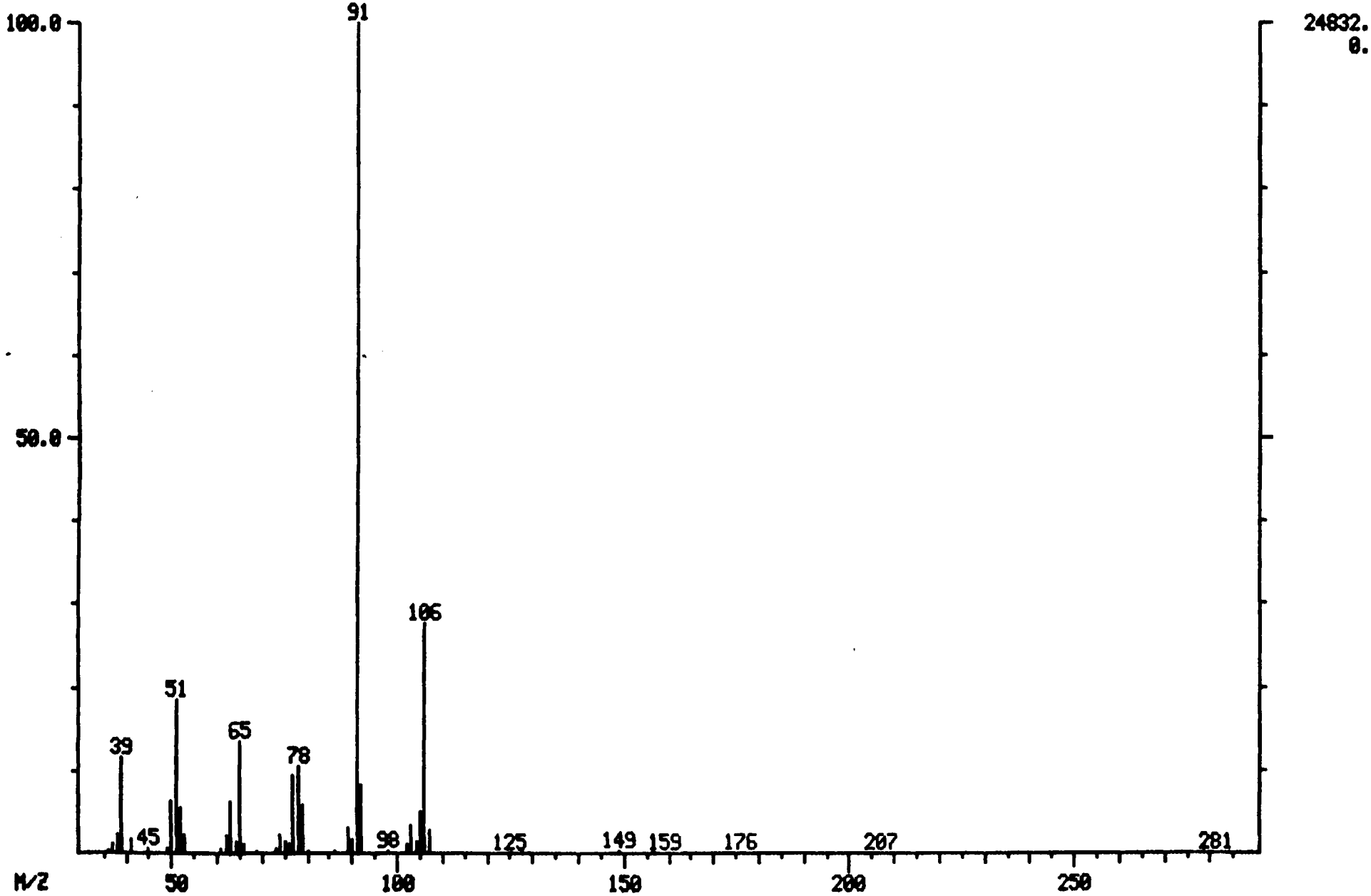
BASE M/Z: 112
RIC: 63808.



MASS SPECTRUM
05/04/89 12:56:00 + 27:20
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #820
CALI: IC30504 #3

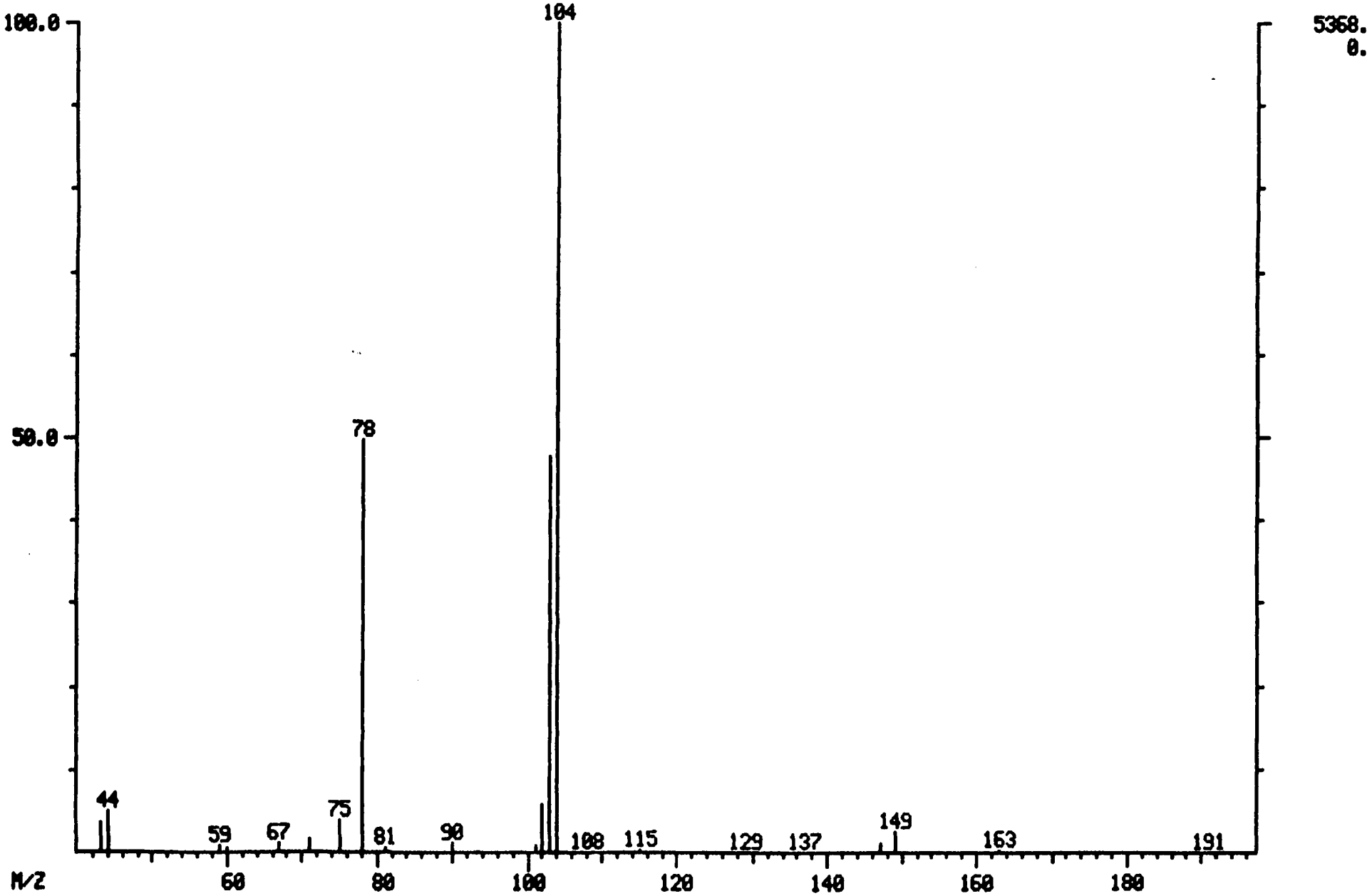
BASE M/Z: 91
RIC: 65280.



MASS SPECTRUM
05/04/89 12:56:00 + 31:32
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #946
CALI: IC30504 #3

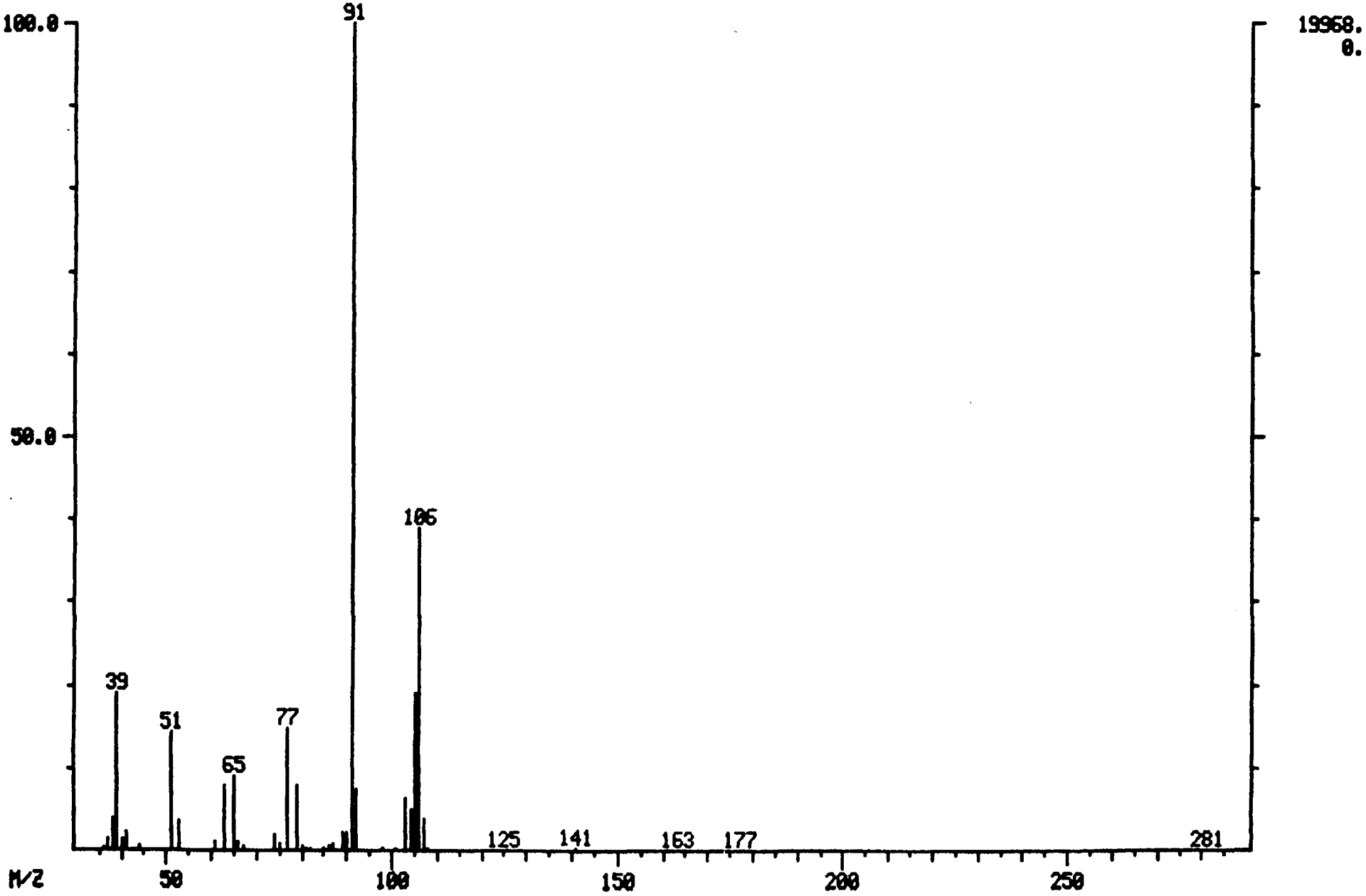
BASE M/Z: 104
RIC: 12144.



MASS SPECTRUM
05/04/89 12:56:00 + 31:50
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #955
CALI: IC30504 #3

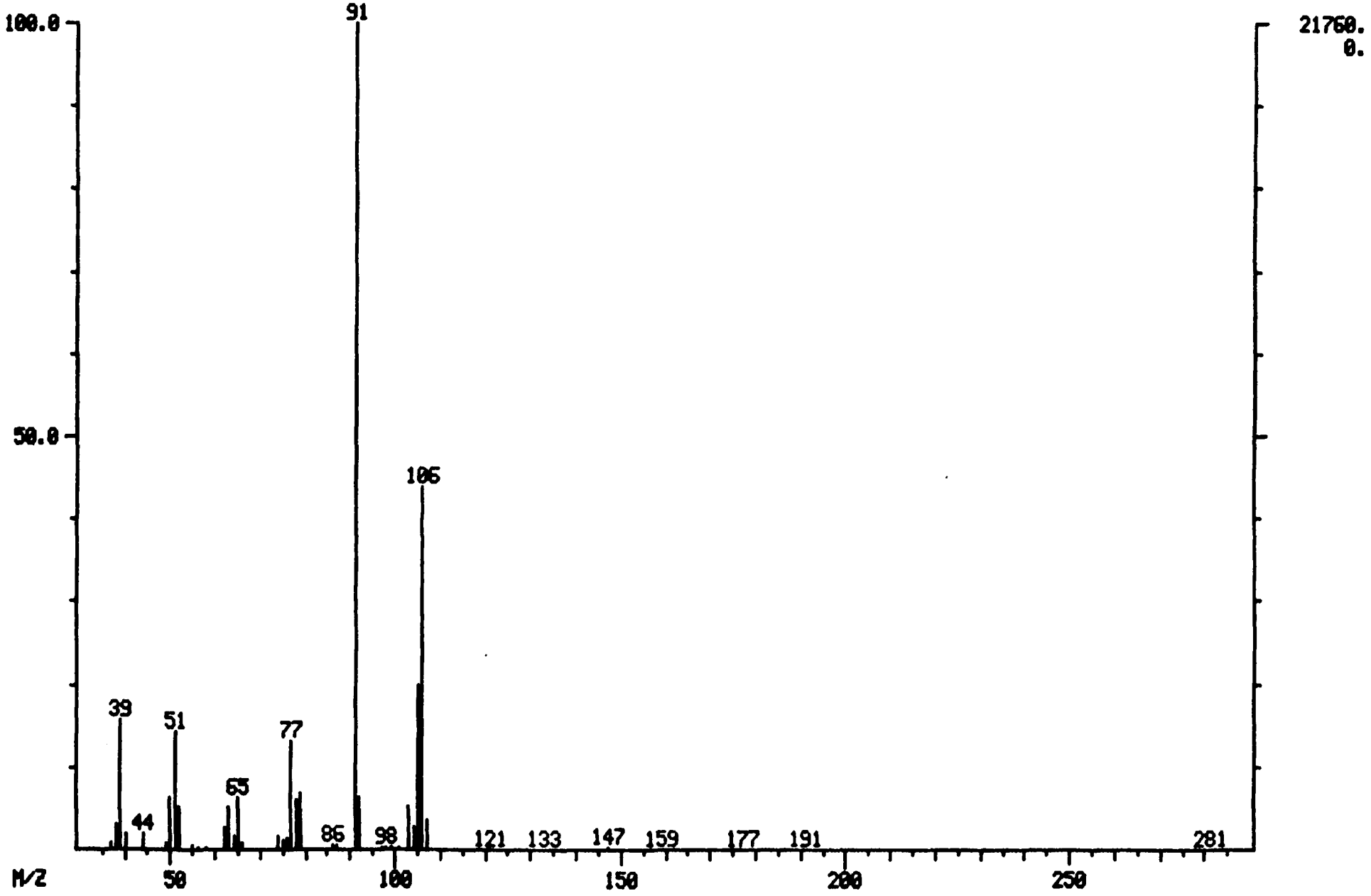
BASE M/Z: 91
RIC: 56192.



MASS SPECTRUM
05/04/89 12:56:00 + 32:54
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: IC30504 #987
CALI: IC30504 #3

BASE M/Z: 91
RIC: 61696.



UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: JUL 13 1989

SUBJECT: Review of Region 5 data for National Steel Corp.

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SE-6196
Sample Numbers: 89FC20S66-89FC20S74, 89FC11R03 (11)
Parameter(s): VOA/water
Laboratory: CRL/Weston ESAT

Results Status:

(✓) DATA ACCEPTABLE FOR USE*
( ) DATA QUALIFIED AS TO USE
( ) DATA UNACCEPTABLE FOR USE

* For data acceptability requirements, refer to the method capability statement for the methods referenced.

Comments by the Quality Control Coordinator:

RECEIVED
AUG 01 1989
U.S. EPA CENTRAL REGIONAL LAB.
CHICAGO

If there are any questions regarding the data, refer them to Steve Parker, the Quality Control Coordinator, at 353-3805.

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
(5SCRL)

S. Griffin
JUL 13 1989
U.S. EPA CENTRAL REGIONAL LAB

RECEIVED BY/DATE: [signature] 7/14/89

Comments:

U.S. Environmental Protection Agency Region V

Superfund Document Management System (SDMS)

Lab Data Reference Sheet

Please contact the Superfund Records Manager for further information.

I. Unscannable item due to format

___ Graph

_X_ Mail receipts

___ Sample tags

II. Image Quality

___ Resolution / Contrast
(Pages follow / No. of pages ____)

____ Some images within this document may be illegible due to bad source documents

Cooler # 2095

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 5
230 South Dearborn Street
Chicago, Illinois 60604

CHAIN OF CUSTODY RECORD

PROJ. NO.: FMI0277
PROJECT NAME: F05-8711-069 / CASE # 12087
SAMPLERS: (Signature) Linda Martin

Suspend 6196

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	40ml VOA						TAG #'S	REMARKS: Low Conc. MATRIX
SW1	6/7	1145		✓	SW1	3	3						129351-129353	water
SW2	6/7	1145		✓	SW2+MSD	8	8						129354-129356 - 129384-388	water
SW3	6/7	1130		✓	SW3	3	3						129357-129359	water
SW4	6/7	1115		✓	SW4	3	3						129360-129362	water
SW5	6/7	1100		✓	SW5	3	3						129363-129365	water
SW6	6/7	1225		✓	SW6	3	3						129366-129368	water
SW7	6/7	1105		✓	SW7	3	3						129369-129371	water
SW8	6/7	1100		✓	SW8	3	3						129372-129374	water
SW9	6/7	1145		✓	SW9	3	3						129381-129383	water
BLK	6/7	1000		✓	BLK	3	3						129375-129377	water
Dup	6/7	1145		✓	Dup	3	3						129378-129380	water
													LOT#: 40ml VOA: B9039104	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Linda Martin	6/7/89 1600	William Sanger Jr.			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		William Sanger Jr.	6/8/89 4:12pm	Shipped Fed. Express to CRL Airbill #: 4997120811 Custody Seals: 93313-93314	

Distribution: White — Accompanies Shipment; Pink — Coordinator Field Files; Yellow — Laboratory File

05-00733

TFA 302

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH SUPERFUND FIT SAMPLE DATE 6-7-89 LAB ARRIVAL DATE 6-8-89 DUE DATE 6-29-89

DU NUMBER TFA DATA SET NUMBER 6196 STUDY Nat. Steel Corp Grt. Lake Div. PRIORITY — CONTRACTOR —

CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER VOLATILE ORGANICS SCAN UG/L TOX 17564	WATER ABN ORGANICS SCAN UG/L TOX 17574	SEDIMENTS SOLIDS VOLATILE ORGANICS SCAN MG/KG (DRY) TOX 215622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
89FC20S66	SW1 5-129351-353	✓			
S67	MSD/SW2 5-129354-356 5-129384-388	✓			
S68	SW3 5-129357-59	✓			
S69	SW4 5-129360-62	✓			
S70	SW5 5-129363-65	✓			
S71	SW6 5-129366-68	✓			
S72	SW7 5-129369-71	✓			
S73	SW8 5-129372-74	✓			
S74	SW9 5-129381-83	✓			
89FC11R03	Blk 5-129375-377	✓			
89FC20D66	Dup 5-129378-380	✓			