U.S. Environmental Protection Agency Region V

Superfund Document Management System (SDMS)

Lab Data Reference Sheet

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UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION 5
CHICAGO, ILLINOIS

DATE: SEP 29 1989

SUBJECT: Review of Region 5 data for Belvidere well #6

FROM: Curtis Ross, Director
Region 5 Central Regional Laboratory

To: Data User:

Attached are the results for:

CRL Data Set Numbers: SF-6500
Sample Numbers: 89FD29568 - 89FD29570, 89FD39D70, 89FD11R95 (5)
Parameter(s): VOA - Water
Laboratory: CRL/Weston - ESAT

Results Status:

(X) 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~~, David A. Payne, 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)

RECEIVED BY/DATE:
Comments:

U.S. EPA CENTRAL
REGIONAL LAB

DATA SET	SITE	OU/ACT.
SF-6500	Belvidere well #6	TFA 302

SAMPLES	PARAMETER(S)
89FD29568 - 89FD29570 89FD29570 89FN11R95	VOA - Water

SAMPLED	RECEIVED	DUE	LAB
8/29/89	8/30/89	9/20/89	CEA/Weston-ESAT

SHIPPED	DATA RECEIVED	CONTRACT

TEAM LEADER	SECTION CHIEF	QC COORD.	DATA COORD.
		R. Johnson	

Comments By Reviewer:

DATA ARE ACCEPTABLE FOR USE.

DATA MANAGEMENT COORDINATOR

RECEIVED	TRANSMITTED		
(✓) REVIEWED	( ) UNREVIEWED	TEAM LEADER/DATE	Babu Palanchiz 505 DR. ALWAN
( ) REVIEWED	( ) UNREVIEWED	SECTION CHIEF/DATE	
( ) REVIEWED	( ) UNREVIEWED	QC COORDINATOR/DATE	W. Ray Wilson 9/12/89 for R. Johnson

REVIEWED BY CONTRACT COORDINATOR/DATE

RECEIVED	TRANSMITTED	DATA MANAGEMENT COORDINATOR

CLERICAL SUPPORT

RECEIVED	COMPLETED
	LIMS DATA ENTRY COMPLETED ON 9/15/89

ESAT CONTRACT TID NO: 09-10
TASK NO: 1309

DATASET CUSTODY TRANSFER FORM

Analytical testing was completed on Sept 1, 1989 for:

DATASET NO: SF-6500 SITE NAME: Belvidere Well #6

PARAMETER : VOA

MATRIX : water SF DU/ACT NO: TFA302 Y____ /C____

SAMPLE NUMBERS: 89FD29S68-89FD29S70, 89FD29D70, 89FD11R95 NUMBER OF SAMPLES: 5

ESAT APPROVALS:

[signature] 9/11/89 (ANALYST DATE)	[signature] 9/12/89 (TEAM LEADER DATE)
[signature] for R.S. 9/12/89 (QC COORDINATOR DATE)	[signature] 9/12/89 (ESAT TEAM MANAGER DATE)

COMMENTS:

The subject dataset was transferred to the custody of the U.S. EPA Region V Central Regional Laboratory in its entirety on the date indicated below.

[signature] 9/12/89 (DELIVERED BY DATE)	[signature] 12:00pm 9/12/89 (RECEIVED BY DATE)

EPA APPROVALS:

[signature] 9/12/89
(EPA TASK MONITOR DATE)

[X] Reviewed
[ ] Unreviewed
[X] Accepted
[ ] Rejected
[ ] Returned/_____ (Date)

COMMENTS: RATINGS: TECH. QUALITY: 3.5 ; COMPLIANCE W SCHEDULE: 3.5

LIMS DATA ENTRY COMPLETED ON 9/15/89.

(SECTION CHIEF DATE) [ ] Reviewed [ ] Unreviewed

(ESAT DPO DATE) (DATA COORD'R REC'D ___/___/___ TRANSMTD)

DOC.NO.: ESAT-05-0003-FORM
REVISION NO.: 05 (04/05/89) FILE LOCATION NUMBER: 5.6.1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0831BLK1

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0831BLK1

Sample wt/vol: 20 (g/mL) ML Lab File ID: 0831BLK1

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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

083iBLK1 (cont.) 1A

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.

0831BLK1

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0831BLK1

Sample wt/vol: _____ (g/mL) ML Lab File ID: 0831BLK1

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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.

0901BLK1

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0901BLK1

Sample wt/vol: 20 (g/mL) ML Lab File ID: 0901BLK1

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 09/01/89

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

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.

0901BLK1

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 0901BLK1

Sample wt/vol: _____ (g/mL) ML Lab File ID: 0901BLK1

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 09/01/89

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.

89FD11R95

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FD11R95

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6500R95A

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 09/01/89

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

89FD11R95 (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.

89FD11R95

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FD11R95

Sample wt/vol: _____ (g/mL) ML Lab File ID: 6500R95A

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 09/01/89

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	6.10	2	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FD29S68

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FD29S68

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6500S68

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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

89FD29568 (cont) 1A

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.

89FD29S68

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FD29S68

Sample wt/vol: _____ (g/mL) ML Lab File ID: 6500S68

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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.

89FD29S69

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FD29S69

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6500S69

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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

89FD79569 (cont.) 1A

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.

89FD29S69

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FD29S69

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6500S69

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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	1.87	5	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

89FD29S70

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FD29S70

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6500S70

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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

89FD39570 (cont) 1A

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.

89FD29S70

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FD29S70

Sample wt/vol: _____ (g/mL) ML Lab File ID: 6500S70

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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.

89FD29D70

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FD29D70

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6500D70

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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

89D529570 (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.

89FD29D70

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FD29D70

Sample wt/vol: _____ (g/mL) ML Lab File ID: 6500D70

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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.

89FD29S69MS

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FD29S69MS

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6500S69M

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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	11	
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	11	
75-35-3	1,1-Dichloroethane	11	
540-59-0	1,2-Dichloroethene (total)	10	
67-66-3	Chloroform	11	
107-06-2	1,2-Dichloroethane	11	
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	9	
56-23-5	Carbon Tetrachloride	8	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
79-01-6	Trichloroethene	8	
124-48-1	Dibromochloromethane	8	
79-00-5	1,1,2-Trichloroethane	9	
71-43-2	Benzene	10	
10061-02-6	Trans-1,3-Dichloropropene	7	
110-75-8	2-Chloroethylvinylether	10	
75-25-2	Bromoform	6	
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	8	
79-34-5	1,1,2,2-Tetrachloroethane	10	
108-88-3	Toluene	9	
108-90-7	Chlorobenzene	9	
100-41-4	Ethylbenzene	9	
100-42-5	Styrene	2	U

89FD29569MS (cont.) 1A

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.

89FD29S69MSD

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: 89FD29S69MSD

Sample wt/vol: 20 (g/mL) ML Lab File ID: 6500S69D

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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	10	
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	10	
75-35-3	1,1-Dichloroethane	10	
540-59-0	1,2-Dichloroethene (total)	9	
67-66-3	Chloroform	10	
107-06-2	1,2-Dichloroethane	11	
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	8	
56-23-5	Carbon Tetrachloride	7	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	9	
78-87-5	1,2-Dichloropropane	9	
10061-01-5	cis-1,3-Dichloropropene	10	
79-01-6	Trichloroethene	7	
124-48-1	Dibromochloromethane	8	
79-00-5	1,1,2-Trichloroethane	9	
71-43-2	Benzene	9	
10061-02-6	Trans-1,3-Dichloropropene	6	
110-75-8	2-Chloroethylvinylether	9	
75-25-2	Bromoform	6	
108-10-1	4-Methyl-2-Pentanone	3	U
591-78-6	2-Hexanone	3	U
127-18-4	Tetrachloroethene	7	
79-34-5	1,1,2,2-Tetrachloroethane	10	
108-88-3	Toluene	9	
108-90-7	Chlorobenzene	8	
100-41-4	Ethylbenzene	9	
100-42-5	Styrene	2	U

89FD29569MSD (cont)

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

Date: 9/11/89

To: Alwan Alwan

From: David Kusel

Re: Dataset SF-6500
Belvidere Well #6

Five (5) low level water samples from dataset SF-6500 were submitted for volatile organic analysis (VOA) by GC/MS utilizing EPA method 624NS.

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

The tunings were acceptable with BFB meeting all QC requirements (Form 5A). The initial calibration (Form 6A) was acceptable with all compounds having RSDs less than 35%. The continuing calibrations were acceptable (Form 7A) with all compounds having %Ds less than 35%.

All internal standard areas and retention times were within QC limits (Form 8A) except for the area of bromochloromethane in 89FD29S69MS.

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

Sample 89FD29S69 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 criteria.

There were two (2) method blanks associated with the samples. No TCL compounds or TICs were detected in either method blank.

There was one (1) Field Blank (89FD11R95) associated with the samples. The Field Blank contained one (1) TIC at 6:06 and no TCL compouds.

Sample 89FD29S70 and its duplicate 89FD29D70 correlated very well. No TCL compounds or TICs were detected in either sample.

Sample 89FD29S68 contained no TCL compounds or TICs.

Sample 89FD29S69 contained one (1) TIC at 1:52 and no TCL compounds.

USEPA REGION V CRL
SF6500 09/21/89

09/14/89 09:23:47
PAGE 01

89FD29

WORKLIST : VODTK032
TEST : VOWSO

WL#	ID	REP	COMMENTS
1	LRB		
2	LF1		
3	LF2		
4	S9000808	01	S68
5	S9000809	01	S69
6	S9000810	01	S70
7	S9000811	01	D70
8	S9000812	01	IB95

536
Lowell K
2 Reviewing
9/17/89 20 mins
K. Turner

TFA302

ENVIRONMENTAL PROTECTION AGENCY
FOR THE TEAM: TOXIC SUBSTANCES

DIVISION/BRANCH FIT SUPERFUND SAMPLE DATE 8/29/89 LAB ARRIVAL DATE 8/30/89 DUE DATE 9/20/89

DU NUMBER TFA DATA SET NUMBER 6500 STUDY BENLOMER WELL #6 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 216622	SEDIMENTS SOLIDS ABN ORGANICS SCAN MG/KG (DRY) TOX 215722
89FD295 68	RW1 5-078072-74	X			
69	MSD/RW2 5-078080-082 5-078088-092	X			
70	RW3 5-078098-99 5078100	X			
~~71~~	~~RW4~~	X	NWR		
~~72~~	~~RW5~~	X	NWR		
89FD29 70	DUP 5-078106-08	X			
89FD11 R 95	BLANK 5078114-16	X			

Dave Hall 9/1/89

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MDL0831

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix: (soil/water) WATER Lab Sample ID: MDL0831

Sample wt/vol: 20 (g/mL) ML Lab File ID: MDL0831

Level: (low/med) LOW Date Received: 08/30/89

% Moisture: not dec. 100 Date Analyzed: 08/31/89

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

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	3	
74-83-9	Bromomethane	2	
75-01-4	Vinyl Chloride	2	
75-00-3	Chloroethane	3	
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	67	J
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	1	J
107-13-1	Acrylonitrile	67	
75-35-4	1,1-Dichloroethene	0.8	J
75-35-3	1,1-Dichloroethane	1	
540-59-0	1,2-Dichloroethene (total)	0.9	J
67-66-3	Chloroform	1	
107-06-2	1,2-Dichloroethane	1	J
78-93-3	2-Butanone	17	J
71-55-6	1,1,1-Trichloroethane	0.7	J
56-23-5	Carbon Tetrachloride	0.4	J
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	0.7	J
78-87-5	1,2-Dichloropropane	0.9	J
10061-01-5	cis-1,3-Dichloropropene	0.8	J
79-01-6	Trichloroethene	0.9	J
124-48-1	Dibromochloromethane	0.6	J
79-00-5	1,1,2-Trichloroethane	1	J
71-43-2	Benzene	1	
10061-02-6	Trans-1,3-Dichloropropene	0.5	J
110-75-8	2-Chloroethylvinylether	1	J
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-Pentanone	4	
591-78-6	2-Hexanone	4	
127-18-4	Tetrachloroethene	0.6	J
79-34-5	1,1,2,2-Tetrachloroethane	0.8	J
108-88-3	Toluene	0.9	J
108-90-7	Chlorobenzene	0.8	J
100-41-4	Ethylbenzene	0.9	J
100-42-5	Styrene	2	

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

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

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Lab File ID: 0828BFB3 BFB Injection Date: 08/28/89

Instrument ID: INCOS1 BFB Injection Time: 0925

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	20.7
75	30.0 - 60.0% of mass 95	46.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.6
173	Less than 2.0% of mass 174	0.8 (1.4)1
174	Greater than 50.0% of mass 95	60.7
175	5.0 - 9.0% of mass 174	5.3 (8.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	61.1 (100.7)1
177	5.0 - 9.0% of mass 176	4.0 (6.5)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	IC10828	IC10828	IC10828	08/28/89	1016
02	IC20828	IC20828	IC20828	08/28/89	1101
03	IC30828	IC30828	IC30828	08/28/89	1150
04	IC40828	IC40828	IC40828	08/28/89	1235
05	IC50828	IC50828	IC50828	08/28/89	1321

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

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Lab File ID: 0831BFB1 BFB Injection Date: 08/31/89

Instrument ID: INCOS1 BFB Injection Time: 1021

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	18.0
75	30.0 - 60.0% of mass 95	42.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	9.0
173	Less than 2.0% of mass 174	0.6 (1.1)1
174	Greater than 50.0% of mass 95	55.8
175	5.0 - 9.0% of mass 174	5.0 (8.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	53.2 (95.3)1
177	5.0 - 9.0% of mass 176	2.8 (5.2)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	0831BLK1	0831BLK1	0831BLK1	08/31/89	1055
02	CC0831	CC0831	CC0831	08/31/89	1140
03	89FD29S68	89FD29S68	6500S68	08/31/89	1343
04	89FD29S69	89FD29S69	6500S69	08/31/89	1427
05	89FD29S70	89FD29S70	6500S70	08/31/89	1516
06	89FD29D70	89FD29D70	6500D70	08/31/89	1600
07	89FD29S69MS	89FD29S69MS	6500S69M	08/31/89	2025
08	89FD29S69MSD	89FD29S69MSD	6500S69D	08/31/89	2109
09	MDL0831	MDL0831	MDL0831	08/31/89	2153

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

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Lab File ID: 0901BFB1 BFB Injection Date: 09/01/89

Instrument ID: INCOS1 BFB Injection Time: 0842

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	20.6
75	30.0 - 60.0% of mass 95	45.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.9 (1.7)1
174	Greater than 50.0% of mass 95	50.5
175	5.0 - 9.0% of mass 174	4.2 (8.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	50.3 (99.7)1
177	5.0 - 9.0% of mass 176	2.7 (5.3)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	0901BLK1	0901BLK1	0901BLK1	09/01/89	0912
02	CC0901	CC0901	CC0901	09/01/89	1002
03	89FD11R95	89FD11R95	6500R95A	09/01/89	1128

ASK DESC:VO NUMBER OF ENTRIES: 2 CURRENT INDEX: 9 31 AUG 89

ENTRY NO.: 1 FILE NAME: 0831BLK1
SAMPLE: CLP,0831,,0831BLK1,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: CC0831
SAMPLE: CLP,0831,,CC0831,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                                                    31 AUG 89
ENTRY NO.:  1                    FILE NAME:   6500R95
SAMPLE: CLP,6500,,89FD11R95,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:   6500S68
SAMPLE: CLP,6500,,89FD29S68,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:   6500S69
SAMPLE: CLP,6500,,89FD29S69,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:   6500S70
SAMPLE: CLP,6500,,89FD29S70,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:   6500D70
SAMPLE: CLP,6500,,89FD29D70,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:   6501R93
SAMPLE: CLP,6501,,89FD11R93,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...
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ASK     DESC:VO   NUMBER OF ENTRIES: 13 CURRENT INDEX:  2                                                    31 AUG 89
ENTRY NO.:  7                    FILE NAME:   6501S59
SAMPLE: CLP,6501,,89FD29S59,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:   6501S60
SAMPLE: CLP,6501,,89FD29S60,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:   6501S62
SAMPLE: CLP,6501,,89FD29S62,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:   6501D62
SAMPLE: CLP,6501,,89FD29D62,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:   6500S69M
SAMPLE: CLP,6500,,89FD29S69MS,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:  3
ENTRY NO.: 12                    FILE NAME:   6500S69D
SAMPLE: CLP,6500,,89FD29S69MSD,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:  4


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

ASK DESC:VO NUMBER OF ENTRIES: 13 CURRENT INDEX: 2 31 AUG 89

ENTRY NO.: 13 FILE NAME: MDL0831

SAMPLE: CLP,0831,,MDL0831,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

ASK DESC:VO NUMBER OF ENTRIES: 2 CURRENT INDEX: 11 01 SEP 89

ENTRY NO.: 1 FILE NAME: 0901BLK1
SAMPLE: CLP,0901,,0901BLK1,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: CC0901
SAMPLE: CLP,0901,,CC0901,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: 14 CURRENT INDEX:  1                                                    01 SEP 89
ENTRY NO.:  1                    FILE NAME:   6500R95A
SAMPLE: CLP,6500,,89FD11R95,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:   6506R94
SAMPLE: CLP,6506,,89FD11R94,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:   6506S64
SAMPLE: CLP,6506,,89FD29S64,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:   6506S65
SAMPLE: CLP,6506,,89FD29S65,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:   6506S67
SAMPLE: CLP,6506,,89FD29S67,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:   6506D67
SAMPLE: CLP,6506,,89FD29D67,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: 14 CURRENT INDEX:  1                                                    01 SEP 89
ENTRY NO.:  7                    FILE NAME:   6507R92
SAMPLE: CLP,6507,,89FW11R92,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:   6507S58
SAMPLE: CLP,6507,,89FW29S58,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:   6507D58
SAMPLE: CLP,6507,,89FW29D58,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:   6501S60M
SAMPLE: CLP,6501,,89FD29S60MS,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:  2
ENTRY NO.: 11                    FILE NAME:   6501S60D
SAMPLE: CLP,6501,,89FD29S60MSD,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:  3
ENTRY NO.: 12                    FILE NAME:   6506S65M
SAMPLE: CLP,6506,,89FD29S65MS,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: 14 CURRENT INDEX: 1 01 SEP 89

ENTRY NO.: 13 FILE NAME: 6506S65D
SAMPLE: CLP,6506,,89FD29S65MSD,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

ENTRY NO.: 14 FILE NAME: MDL0901
SAMPLE: CLP,0901,,MDL0901,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

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Matrix Spike - EPA Sample No.: 89FD29S69

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	10.0	0	10.7	107	61-145
Trichloroethene	10.0	0	7.77	78	71-120
Benzene	10.0	0	9.67	97	76-127
Toluene	10.0	0	9.30	93	76-125
Chlorobenzene	10.0	0	8.70	87	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	9.75	98	9	14	61-145
Trichloroethene	10.0	7.43	74	5	14	71-120
Benzene	10.0	9.12	91	6	11	76-127
Toluene	10.0	8.88	89	4	13	76-125
Chlorobenzene	10.0	8.43	84	4	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,6500,,89FD29S69,L,W,,V,EPA,
45'(3MIN) TO 220'@ 8'/MIN

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Lab File ID (Standard): CC0831 Date Analyzed: 08/31/89

Instrument ID: INCOS1 Time Analyzed: 1140

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	19800	9.90	144000	19.14	101000	23.14
	UPPER LIMIT	39600	10.40	288000	19.64	202000	23.64
	LOWER LIMIT	9900	9.40	72000	18.64	50500	22.64
	EPA SAMPLE NO.						
01	89FD29D70	16400	9.90	116000	19.10	74900	23.14
02	89FD29S68	20500	9.90	136000	19.10	81200	23.14
03	89FD29S69	16000	9.90	111000	19.10	70900	23.14
04	89FD29S70	14900	9.90	100000	19.14	60200	23.14
05	MDL0831	10000	9.94	83400	19.10	56500	23.10
06	89FD29S69MS	9750 *	9.90	77300	19.10	54800	23.10
07	89FD29S69MSD	11200	9.87	87600	19.10	59300	23.10
08	0831BLK1	21900	9.90	145000	19.10	92700	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 CROSSWHITE K TURNER 9/7/89)

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Lab File ID (Standard): CC0901 Date Analyzed: 09/01/89

Instrument ID: INCOS1 Time Analyzed: 1002

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	14000	9.90	101000	19.10	63000	23.14
	UPPER LIMIT	28000	10.40	202000	19.60	126000	23.64
	LOWER LIMIT	7000	9.40	50500	18.60	31500	22.64
	EPA SAMPLE NO.						
01	89FD11R95	15800	9.94	107000	19.14	64300	23.14
02	0901BLK1	14000	9.94	98300	19.14	60300	23.14

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

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

Chlorobenzene K. Turock 9/7/89

FORM VIII VOA 1/87 Rev.

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

	EPA SAMPLE NO.	S1 (TOL) #	S2 ~~(BFB)~~ # (BEN)	S3 (DCE) #	OTHER	TOT OUT
01	89FD11R95	100	100	96		0
02	89FD29D70	103	98	90		0
03	89FD29S68	118	106	81		0
04	89FD29S69	107	99	88		0
05	89FD29S70	118	114	86		0
06	MDL0831	93	91	108		0
07	89FD29S69MS	94	101	115		0
08	89FD29S69MSD	94	94	109		0
09	0831BLK1	107	96	90		0
10	0901BLK1	103	101	97		0

	QC LIMITS
S1 (TOL) = Toluene-d8	(80-120)
~~S2 (BFB) = Bromofluorobenzene~~	~~(80-120)~~
S3 (DCE) = 1,2-Dichloroethane-d4	(80-120)
S3 (BEN) = Benzene-d6	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Instrument ID: INCOS1 Calibration date: 08/31/89 Time: 1140

Lab File ID: CC0831 Init. Calib. Date(s): 08/28/89 08/28/89

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~~	%D	
Chloromethane	#	4.518	3.964	12.3	#
Bromomethane		3.814	4.041	-6.0	
Vinyl Chloride	*	4.676	5.092	-8.9	*
Chloroethane		3.125	3.514	-12.5	
Methylene Chloride		3.110	3.538	-13.8	
Acetone		0.208	0.218	-4.8	
Acrolein		0.030	0.032	-6.7	
Carbon Disulfide		2.300	2.005	12.8	
Acrylonitrile		0.211	0.232	-10.0	
1,1-Dichloroethene	*	3.547	3.704	-4.4	*
1,1-Dichloroethane	#	8.074	8.614	-6.7	#
1,2-Dichloroethene (total)		3.429	3.794	-10.6	
Chloroform	*	7.472	8.096	-8.4	*
1,2-Dichloroethane		3.013	3.460	-14.8	
2-Butanone		0.011	0.012	-9.1	
1,1,1-Trichloroethane		0.940	0.846	10.0	
Carbon Tetrachloride		0.718	0.679	5.4	
Vinyl Acetate		0.289	0.339	-17.3	
Bromodichloromethane		0.729	0.740	-1.5	
1,2-Dichloropropane	*	0.695	0.737	-6.0	*
cis-1,3-Dichloropropene		0.735	0.772	-5.0	
Trichloroethene		0.761	0.681	10.5	
Dibromochloromethane		0.381	0.364	4.5	
1,1,2-Trichloroethane		0.286	0.312	-9.1	
Benzene		1.694	1.791	-5.7	
Trans-1,3-Dichloropropene		0.415	0.438	-5.5	
2-Chloroethylvinylether		0.144	0.162	-12.5	
Bromoform	#	0.146	0.132	9.6	#
4-Methyl-2-Pentanone		0.230	0.209	9.1	
2-Hexanone		0.313	0.275	12.1	
Tetrachloroethene		0.978	0.757	22.6	
1,1,2,2-Tetrachloroethane	#	0.375	0.411	-9.6	#
Toluene	*	1.821	1.703	6.5	*
Chlorobenzene	#	2.088	1.929	7.6	#
Ethylbenzene	*	1.027	0.908	11.6	*
Styrene		2.054	1.772	13.7	
M-Xylene		1.269	1.055	16.9	
O-&/or P-Xylene		1.195	1.009	15.6	
Toluene-d8		2.610	2.341	10.3	

CC0831

7A

Benzene-d6	1.871	1.909	-2.0
1,2-Dichloroethane-d4	3.355	3.808	-13.5

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Instrument ID: INCOS1 Calibration date: 09/01/89 Time: 1002

Lab File ID: CC0901 Init. Calib. Date(s): 08/28/89 08/28/89

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~~	%D	
Chloromethane	#	4.518	4.522	-0.1	#
Bromomethane		3.814	4.065	-6.6	
Vinyl Chloride	*	4.676	4.776	-2.1	*
Chloroethane		3.125	3.288	-5.2	
Methylene Chloride		3.110	3.465	-11.4	
Acetone		0.208	0.198	4.8	
Acrolein		0.030	0.027	10.0	
Carbon Disulfide		2.300	1.995	13.3	
Acrylonitrile		0.211	0.223	-5.7	
1,1-Dichloroethene	*	3.547	3.802	-7.2	*
1,1-Dichloroethane	#	8.074	8.258	-2.3	#
1,2-Dichloroethene (total)		3.429	3.802	-10.9	
Chloroform	*	7.472	7.937	-6.2	*
1,2-Dichloroethane		3.013	2.925	2.9	
2-Butanone		0.011	0.012	-9.1	
1,1,1-Trichloroethane		0.940	0.829	11.8	
Carbon Tetrachloride		0.718	0.636	11.4	
Vinyl Acetate		0.289	0.278	3.8	
Bromodichloromethane		0.729	0.693	4.9	
1,2-Dichloropropane	*	0.695	0.693	0.3	*
cis-1,3-Dichloropropene		0.735	0.714	2.9	
Trichloroethene		0.761	0.658	13.5	
Dibromochloromethane		0.381	0.315	17.3	
1,1,2-Trichloroethane		0.286	0.295	-3.1	
Benzene		1.694	1.799	-6.2	
Trans-1,3-Dichloropropene		0.415	0.397	4.3	
2-Chloroethylvinylether		0.144	0.148	-2.8	
Bromoform	#	0.146	0.106	27.4	#
4-Methyl-2-Pentanone		0.230	0.199	13.5	
2-Hexanone		0.313	0.278	11.2	
Tetrachloroethene		0.978	0.817	16.5	
1,1,2,2-Tetrachloroethane	#	0.375	0.413	-10.1	#
Toluene	*	1.821	1.865	-2.4	*
Chlorobenzene	#	2.088	2.108	-1.0	#
Ethylbenzene	*	1.027	1.056	-2.8	*
Styrene		2.054	2.157	-5.0	
M-Xylene		1.269	1.265	0.3	
O-&/or P-Xylene		1.195	1.193	0.2	
Toluene-d8		2.610	2.747	-5.2	

CC0701

Benzene-d6	1.871	1.981	-5.9
1,2-Dichloroethane-d4	3.355	3.363	-0.2

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Instrument ID: INCOS1 Calibration Date(s): 08/28/89 08/28/89

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 Consults K. Turner 9/7/89)

LAB FILE ID: ~~RRF20~~ = IC10828 = RRF05 ~~RRF50~~ = IC20828 = RRF10
~~RRF100~~= IC30828 RRF15 ~~RRF150~~= IC40828 = RRF30 ~~RRF200~~= IC50828 = RRF35

COMPOUND		RRF05 ~~RRF20~~	RRF10 ~~RRF50~~	RRF15 ~~RRF100~~	RRF30 ~~RRF150~~	RRF35 ~~RRF200~~	$\overline{RRF}$	% RSD
Chloromethane	#	4.681	3.878	4.507	4.504	5.019	4.518	9.2#
Bromomethane		3.978	3.268	3.814	3.850	4.162	3.814	8.8
Vinyl Chloride	*	4.753	3.976	4.670	4.684	5.297	4.676	10.0*
Chloroethane		3.159	2.617	3.118	3.193	3.536	3.125	10.5
Methylene Chloride		2.433	2.811	3.353	3.333	3.620	3.110	15.4
Acetone		0.174	0.221	0.235	0.197	0.212	0.208	11.3
Acrolein		0.023	0.035	0.033	0.026	0.031	0.030	16.6
Carbon Disulfide		2.011	2.276	2.371	2.021	2.821	2.300	14.4
Acrylonitrile		0.180	0.222	0.233	0.210	0.209	0.211	9.4
1,1-Dichloroethene	*	2.504	3.158	3.673	3.663	4.738	3.547	23.1*
1,1-Dichloroethane	#	5.789	7.242	8.510	8.531	10.299	8.074	20.8#
1,2-Dichloroethene (total)		2.445	3.018	3.588	3.579	4.516	3.429	22.4
Chloroform	*	5.449	6.788	7.905	7.947	9.271	7.472	19.2*
1,2-Dichloroethane		2.330	2.830	3.228	3.318	3.359	3.013	14.5
2-Butanone		0.010	0.012	0.013	0.011	0.011	0.011	10.4
1,1,1-Trichloroethane		0.690	0.848	0.944	0.996	1.222	0.940	20.9
Carbon Tetrachloride		0.475	0.615	0.727	0.767	1.006	0.718	27.4
Vinyl Acetate		0.367	0.380	0.232	0.194	0.274	0.289	28.4
Bromodichloromethane		0.537	0.672	0.762	0.810	0.862	0.729	17.6
1,2-Dichloropropane	*	0.547	0.646	0.721	0.750	0.813	0.695	14.7*
cis-1,3-Dichloropropene		0.547	0.681	0.774	0.817	0.854	0.735	16.8
Trichloroethene		0.701	0.661	0.740	0.775	0.929	0.761	13.5
Dibromochloromethane		0.275	0.346	0.397	0.433	0.453	0.381	18.8
1,1,2-Trichloroethane		0.237	0.262	0.301	0.319	0.309	0.286	12.1
Benzene		1.301	1.569	1.713	1.775	2.112	1.694	17.5
Trans-1,3-Dichloropropene		0.326	0.387	0.426	0.459	0.479	0.415	14.7
2-Chloroethylvinylether		0.132	0.136	0.150	0.156	0.145	0.144	6.8
Bromoform	#	0.108	0.129	0.154	0.173	0.168	0.146	18.8#
4-Methyl-2-Pentanone		0.208	0.248	0.248	0.222	0.226	0.230	7.6
2-Hexanone		0.280	0.331	0.334	0.291	0.330	0.313	8.2
Tetrachloroethene		0.817	0.874	0.976	0.944	1.280	0.978	18.4
1,1,2,2-Tetrachloroethane	#	0.296	0.342	0.404	0.401	0.433	0.375	14.7#
Toluene	*	1.457	1.665	1.791	1.840	2.350	1.821	18.2*
Chlorobenzene	#	1.684	1.918	2.095	2.157	2.587	2.088	16.0#
Ethylbenzene	*	0.809	0.945	1.015	1.028	1.339	1.027	19.0*
Styrene		1.816	2.064	2.134	1.846	2.408	2.054	11.7
M-Xylene		1.431	1.037	1.179	1.214	1.484	1.269	14.6
O-&/or P-Xylene		1.302	1.003	1.170	1.116	1.386	1.195	12.7

Toluene-d8	2.648	2.613	2.432	2.412	2.944	2.610	8.2
Benzene-d6	1.828	1.873	1.789	1.781	2.082	1.871	6.6
1,2-Dichloroethane-d4	3.009	3.225	3.465	3.456	3.621	3.355	7.1

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: USEPA-REGION V Contract: TFA302

Lab Code: CRL Case No.: 6500 SAS No.: NA SDG No.: NA

Lab File ID: 0831BLK1 Lab Sample ID: 0831BLK1

Date Analyzed: 08/31/89 Time Analyzed: 1055

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	89FD29D70	89FD29D70	6500D70	1600
02	89FD29S68	89FD29S68	6500S68	1343
03	89FD29S69	89FD29S69	6500S69	1427
04	89FD29S70	89FD29S70	6500S70	1516
05	MDL0831	MDL0831	MDL0831	2153
06	89FD29S69MS	89FD29S69MS	6500S69M	2025
07	89FD29S69MSD	89FD29S69MSD	6500S69D	2109

COMMENTS: CLP,0831,,0831BLK1,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.: 6500 SAS No.: NA SDG No.: NA

Lab File ID: 0901BLK1 Lab Sample ID: 0901BLK1

Date Analyzed: 09/01/89 Time Analyzed: 0912

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	89FD11R95	89FD11R95	6500R95A	1128

COMMENTS: CLP,0901,,0901BLK1,L,W,,V,BLANK,
45'(3MIN) TO 220'@ 8'/MIN

BROMOFLUOROBENZENE

Tuning Report
08/31/89 10:21:00 + 12:08
Instrument: INCOS1
#351 to #377 summed - #382
Case Number.

Data: 0831BFB1 # 364
Cali: CALI0419 # 3
Analyst: DTK
Laboratory:

Base m/z: 95
RIC: 289792.
Acct. No.: TFA302
Contract:

m/z	Intensity	% RA	Ion Abundance Criteria Min %	Max %	Mass	Actual	Status
50	11776.	18.0	15.0	40.0	95	18.0	PASS
75	27872.	42.6	30.0	60.0	95	42.6	PASS
95	65408.	100.0	100.0	---	---	100.0	PASS
96	5880.	9.0	5.0	9.0	95	9.0	PASS
173	406.	0.6	---	2.0	174	1.1	PASS
174	36480.	55.8	50.0	---	95	55.8	PASS
175	3236.	4.9	5.0	9.0	174	8.9	PASS
176	34752.	53.1	95.0	101.0	174	95.3	PASS
177	1812.	2.8	5.0	9.0	176	5.2	PASS

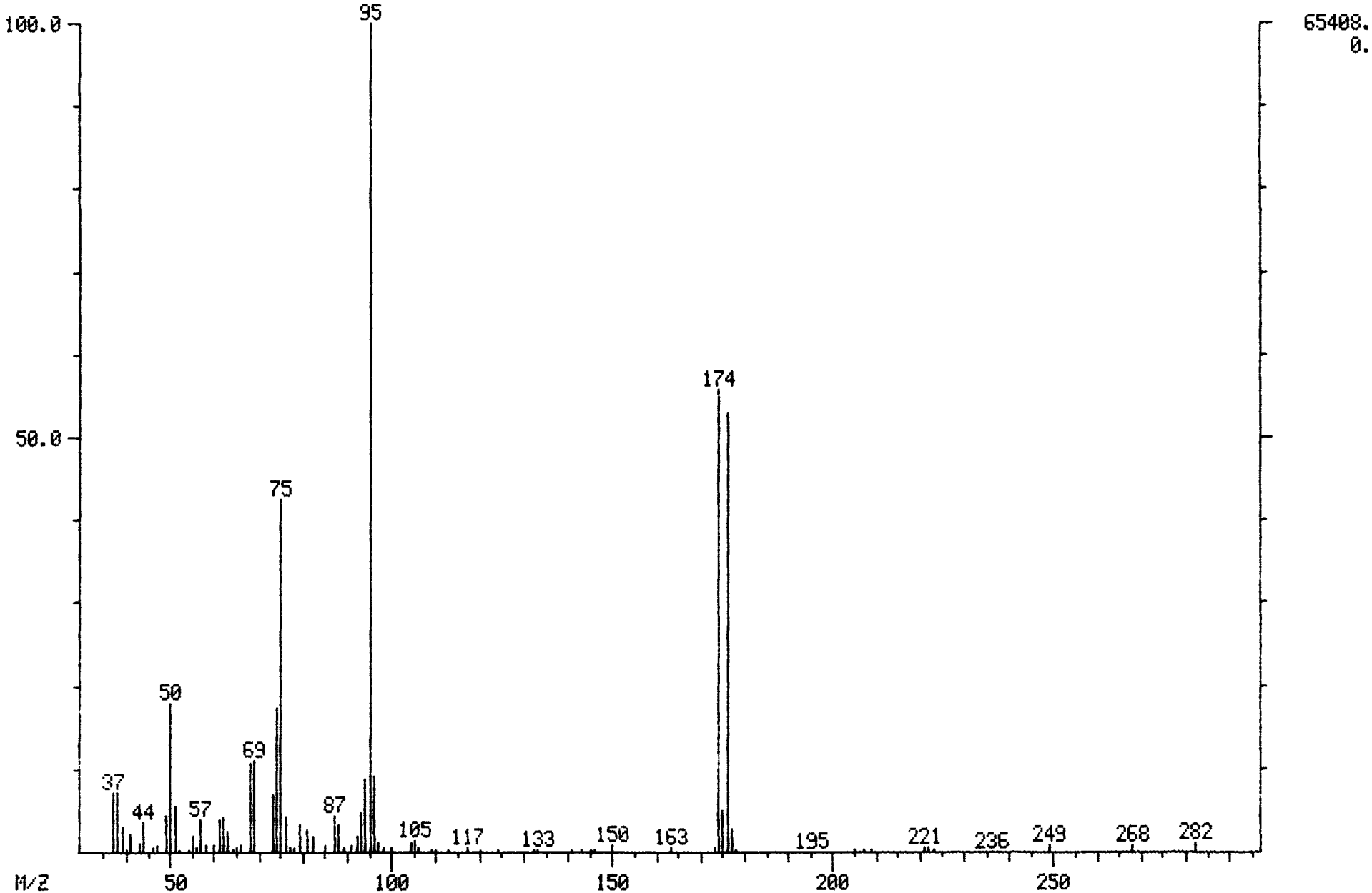
Mass List Data: 0831BFB1 # 364 Base m/z: 95
08/31/89 10:21:00 + 12:08 Cali: CALI0419 # 3 RIC: 289792.
Sample: 50NG BFB INCOS-50 GC/MS/DS USEPA-REGION_V
Conds.: 150' TO 220'@ 15'/MIN
#351 to #377 summed - #382

34		0.00	0.	Minima	Min	Inten:	37.
285				Maxima	#	0	
Mass		% RA	Inten.	Mass		% RA	Inten.
37?		7.31	4784.	99	S	0.09	59.
38?		7.24	4736.	100		0.55	358.
39?	S	2.98	1948.	101		0.10	67.
40?	S	0.24	154.	104	S	1.10	721.
41?	S	2.23	1460.	105	S	1.42	928.
43?	S	1.12	730.	106		0.43	278.
44?	S	3.64	2384.	109		0.36	235.
46?		0.47	305.	110		0.22	147.
47?	S	0.81	531.	112		0.08	51.
48?		0.12	80.	113		0.21	140.
49?		4.46	2916.	117		0.55	363.
50?	S	18.00	11776.	118		0.08	54.
51?	S	5.66	3700.	120		0.21	136.
52?		0.25	164.	123		0.12	80.
54?		0.40	263.	124		0.18	116.
55?	S	1.96	1282.	130		0.08	52.
56?	S	0.47	310.	132		0.19	122.
57?	S	3.88	2540.	133	S	0.38	249.
58?	S	0.77	505.	141		0.23	150.
59?	S	0.10	64.	143		0.23	149.
60?		0.92	600.	145		0.15	99.
61?		3.94	2576.	146		0.18	118.
62?		4.14	2708.	150	S	0.88	578.
63?		2.42	1584.	151		0.08	54.
64?		0.15	97.	155		0.11	73.
65?	S	0.68	447.	163		0.44	289.
66?		0.78	512.	169		0.06	37.
68?		10.71	7008.	172		0.09	60.
69	S	10.95	7160.	173		0.62	406.
73	S	7.02	4592.	174		55.77	36480.
74	S	17.39	11376.	175		4.95	3236.
75	S	42.61	27872.	176	S	53.13	34752.
76	S	4.20	2744.	177	S	2.77	1812.
77	S	0.65	425.	178	S	0.23	148.
78		0.65	425.	180		0.09	57.
79		3.31	2168.	187		0.08	52.
81	S	2.68	1756.	192		0.09	56.
82		1.80	1178.	195		0.10	68.
85	S	0.83	542.	197		0.08	51.
87	S	4.48	2928.	205		0.22	145.
88	S	3.37	2204.	207	S	0.20	130.
89		0.42	273.	208	S	0.09	56.
91	S	0.71	466.	209		0.17	112.
92		1.94	1268.	221	S	0.66	431.
93	S	4.65	3044.	222		0.44	289.
94	S	8.79	5752.	223		0.16	105.
95	S	100.00	65408.	249		0.75	488.
96	S	8.99	5880.	268	S	0.78	507.
97	S	1.10	717.	282	S	1.15	750.
98		0.61	396.	284		0.11	70.

MASS SPECTRUM
08/31/89 10:21:00 + 12:08
SAMPLE: 50NG BFB INCOS-50 GC/MS/DS USEPA-REGION_V
CONDS.: 150' TO 220'@ 15'/MIN
TEMP: 219 DEG. C
#351 TO #377 SUMMED - #382

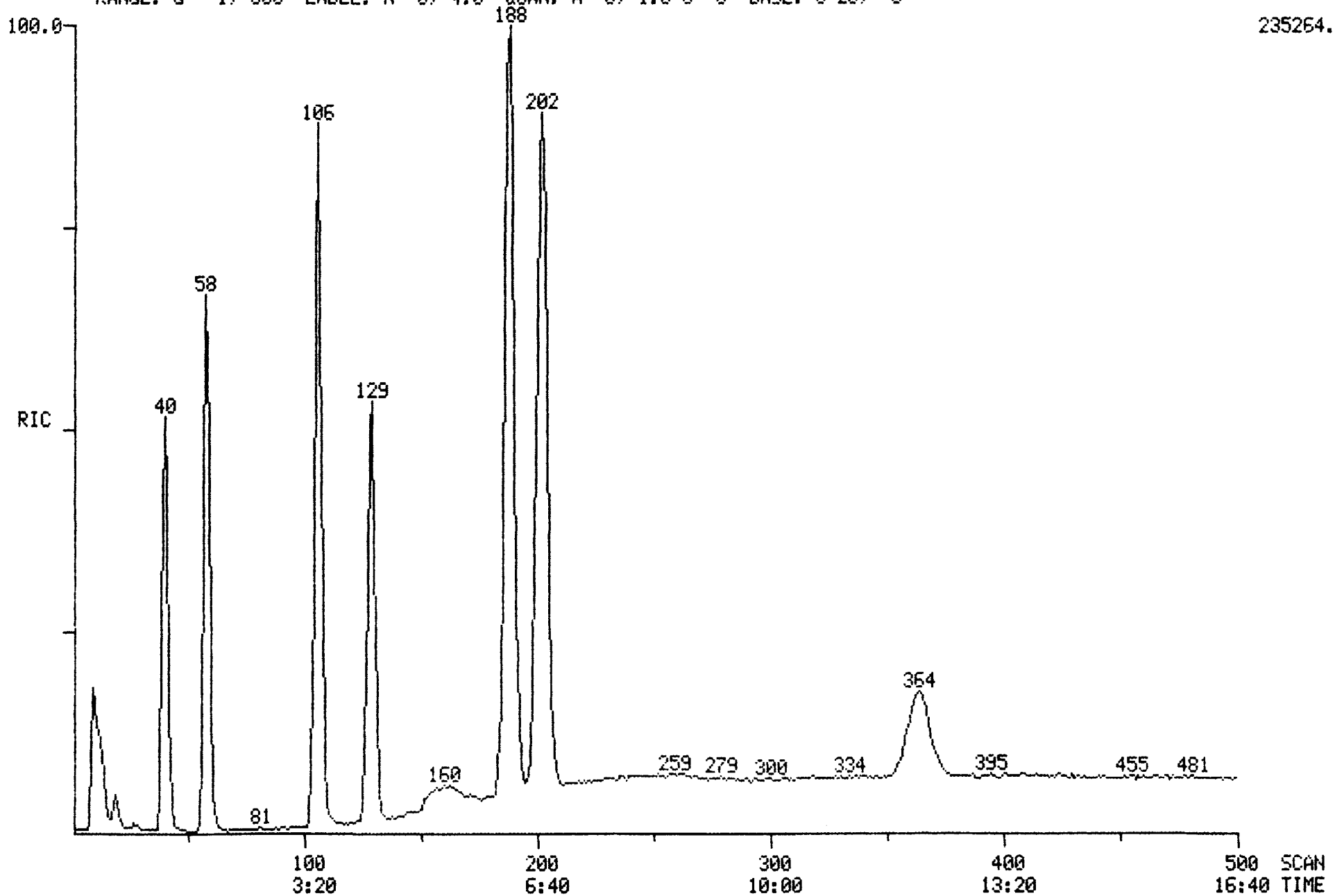
DATA: 0831BFB1 #364
CALI: CALI0419 #3

BASE M/Z: 95
RIC: 289792.



RIC
08/31/83 10:21:00
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: 0831BFB1 #351 SCANS 1 TO 500
CALI: CALI0419 #3



BROMOFLUOROBENZENE

Tuning Report
09/01/89 8:42:00 + 12:00
Instrument: INCOS1
#348 to #372 summed - #374
Case Number:

Data: 0901BFB1 # 360
Cali: CALI0419 # 3
Analyst: DTK
Laboratory:

Base m/z: 95
RIC: 157184.
Acct. No.: TFA302
Contract:

m/z	Intensity	% RA	Ion Abundance Criteria Min %	Max %	Mass	Actual	Status
50	7784.	20.6	15.0	40.0	95	20.6	PASS
75	17184.	45.5	30.0	60.0	95	45.5	PASS
95	37760.	100 0	100.0	---	---	100.0	PASS
96	2696.	7.1	5.0	9.0	95	7.1	PASS
173	324.	0.9	---	2.0	174	1.7	PASS
174	19072.	50.5	50.0	---	95	50.5	PASS
175	1582.	4.2	5.0	9.0	174	8.3	PASS
176	19008.	50.3	95.0	101.0	174	99.7	PASS
177	1006	2.7	5.0	9.0	176	5.3	PASS

Mass List Data: 0901BFB1 # 360 Base m/z: 95
09/01/89 8:42:00 + 12:00 Cali: CALI0419 # 3 RIC: 157184.
Sample: 50NG BFB INCOS-50 GC/MS/DS USEPA-REGION_V
Conds.: 150' TO 220'@ 15'/MIN
#348 to #372 summed - #374

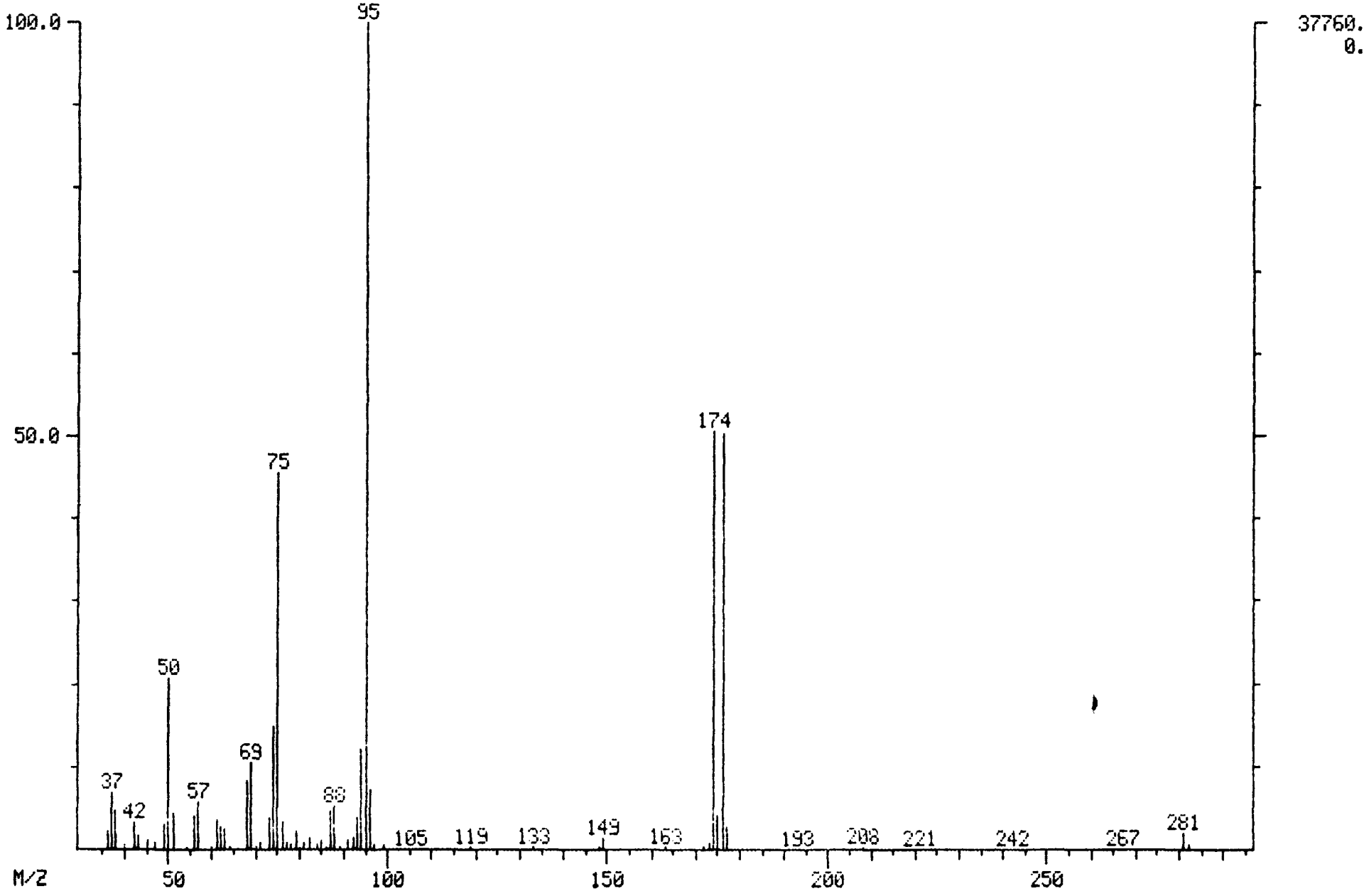
35 0.00 0. Minima Min Inten: 16.
283 Maxima # 0

Mass		% RA	Inten.	Maxima Mass		% RA	Inten.
35?		0.07	25.	96	S	7.14	2696.
36?	S	2.24	844.	97	S	0.48	181.
37?		7.02	2652.	99		0.47	177.
38?	S	4.62	1744.	104		0.04	16.
40?	S	0.49	185.	105	S	0.14	51.
42?	S	3.44	1298.	107		0.04	16.
43?	S	1.56	589.	112		0.12	45.
45?	S	1.15	434.	116		0.05	19.
47?		0.79	300.	117		0.13	50.
48?		0.07	25.	119		0.34	128.
49?		2.98	1126.	121		0.06	22.
50?		20.61	7784.	123		0.06	22.
51?	S	4.31	1626.	126		0.04	16.
52?		0.12	44.	131		0.05	17.
54?		0.16	61.	132		0.05	17.
56?	S	4.14	1562.	133		0.25	94.
57?	S	5.73	2164.	135		0.08	30.
60?		0.23	87.	137		0.05	18.
61?		3.54	1336.	141		0.13	50.
62?		2.73	1032.	143		0.11	40.
63?		2.56	968.	148		0.18	69.
64?		0.20	77.	149		1.42	538.
65?		0.05	17.	151		0.06	21.
66?		0.05	17.	153		0.10	38.
68?	S	8.27	3124.	161		0.08	30.
69	S	10.42	3936.	163		0.17	64.
70	S	0.18	69.	166		0.04	16.
71	S	0.87	330.	170		0.04	16.
73	S	3.79	1430.	172		0.28	107.
74	S	14.83	5600.	173		0.86	324.
75	S	45.51	17184.	174	S	50.51	19072.
76		3.29	1242.	175		4.19	1582.
77		0.82	311.	176		50.34	19008.
78		0.45	170.	177		2.66	1006.
79		2.21	835.	178		0.05	18.
80		0.14	54.	193		0.05	18.
81	S	0.96	361.	202		0.05	20.
82		1.27	481.	208		0.41	155.
84		0.49	186.	220		0.05	19.
85	S	1.19	448.	221		0.11	40.
86		0.28	105.	242		0.05	18.
87	S	4.75	1792.	265		0.05	17.
88	S	5.13	1936.	267		0.10	38.
89		0.25	94.	268		0.05	17.
90		0.05	17.	281	S	2.00	755.
91		1.06	399.	282		0.45	169.
92		1.47	555.	283		0.05	19.
93		3.91	1478.				
94		12.29	4640.				
95	S	100.00	37760.				

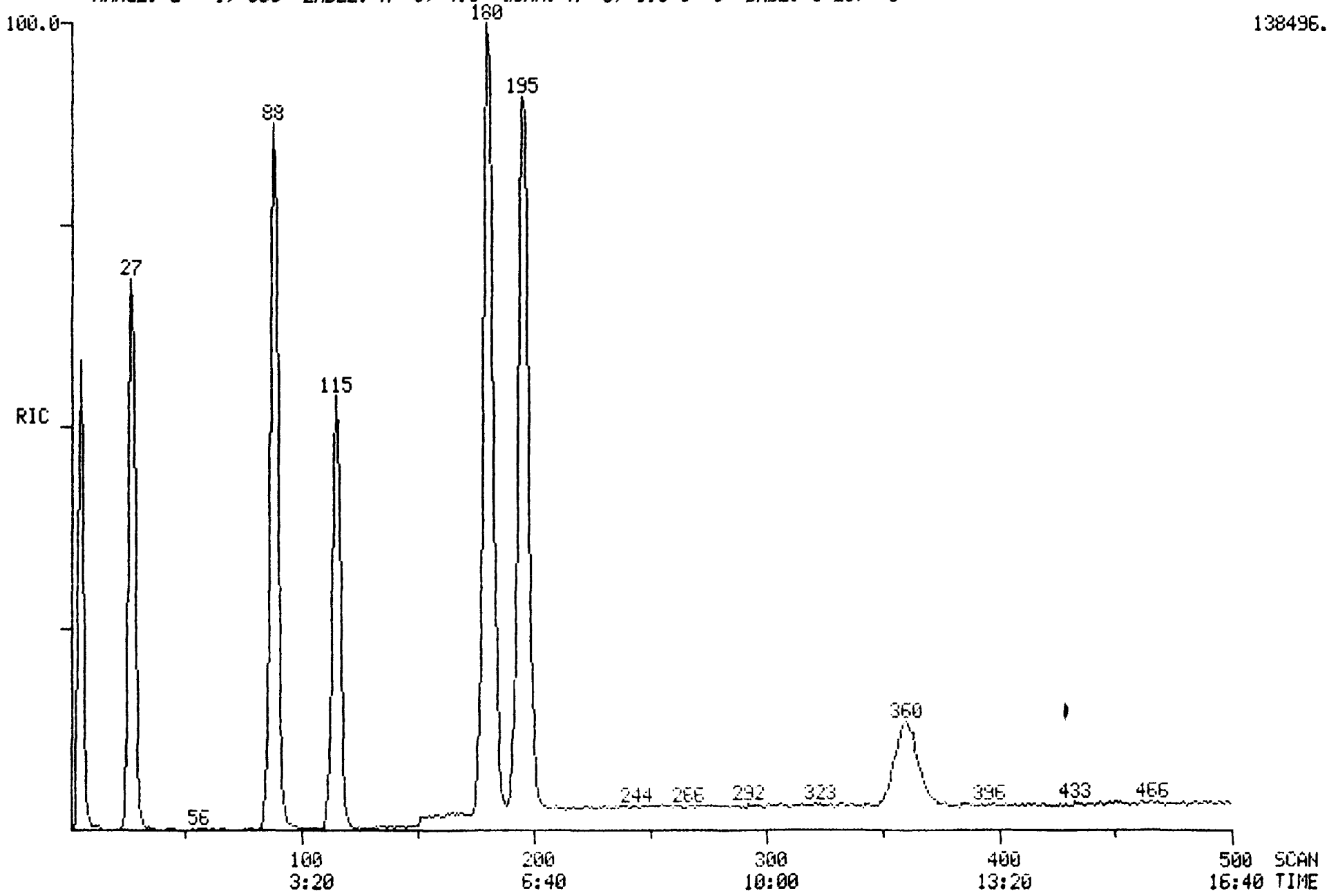
MASS SPECTRUM
09/01/89 8:42:00 + 12:00
SAMPLE: 50NG BFB INCOS-50 GC/MS/DS USEPA-REGION_V
CONDS.: 150' TO 220'@ 15'/MIN
TEMP: 219 DEG. C
#348 TO #372 SUMMED - #374

DATA: 0901BFB1 #360
CALI: CALI0419 #3

BASE M/Z: 95
RIC: 157184.



RIC DATA: 0901BFB1 #348 SCANS 1 TO 500
09/01/89 8:42:00 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



Quantitation Report File: CC0901

Data: CC0901.TI
09/01/89 10:02:00
Sample: CLP,0901,,CC0901,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	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	14019.	10.000	UG/L	0.53
2	77	573	19:06	2	1.000	A BB	100652.	10.000	UG/L	0.53
3	55	694	23:08	3	1.000	A BB	62951.	10.000	UG/L	0.53
4	65	380	12:40	1	1.279	A BB	47151.	10.025	UG/L	0.53
5	84	526	17:32	2	0.918	A BB	199434.	10.591	UG/L	0.56
6	98	718	23:56	3	1.035	A BB	172956.	10.528	UG/L	0.56
7	50	49	1:38	1	0.165	A BB	126792.	20.019	UG/L	1.06
8	94	80	2:40	1	0.269	A BB	113984.	21.315	UG/L	1.13
9	62	103	3:26	1	0.347	A BB	133913.	20.428	UG/L	1.08
10	64	134	4:28	1	0.451	A BB	92192.	21.047	UG/L	1.12
11	84	199	6:38	1	0.670	A BB	72873.	16.715	UG/L	0.89
12	43	217	7:14	1	0.731	A BB	104312.	357.830	UG/L	19.00
13	56	218	7:16	1	0.734	A BB	14356.	349.459	UG/L	18.56
14	76	247	8:14	1	0.832	A BB	34968.	10.846	UG/L	0.58
15	53	239	7:58	1	0.805	A BB	117325.	396.592	UG/L	21.06
16	96	284	9:28	1	0.956	A BB	79956.	16.078	UG/L	0.85
17	63	322	10:44	1	1.084	A BB	173648.	15.341	UG/L	0.81
18	96	344	11:28	1	1.158	A BB	79956.	16.632	UG/L	0.88
19	83	361	12:02	1	1.215	A BB	166911.	15.934	UG/L	0.85
20	62	383	12:46	1	1.290	A BB	61505.	14.563	UG/L	0.77
21	72	380	12:40	2	0.663	A BB	14678.	126.224	UG/L	6.70
22	97	422	14:04	2	0.736	A BB	125179.	13.230	UG/L	0.70
23	117	434	14:28	2	0.757	A VB	96015.	13.284	UG/L	0.71
24	43	438	14:36	2	0.764	A BB	104956.	36.066	UG/L	1.92
25	83	450	15:00	2	0.785	A BB	104554.	14.256	UG/L	0.76
26	63	490	16:20	2	0.855	A BB	104645.	14.950	UG/L	0.79
27	75	498	16:36	2	0.869	A BB	129362.	17.499	UG/L	0.93
28	130	515	17:10	2	0.899	A BB	99332.	12.964	UG/L	0.69
29	129	535	17:50	2	0.934	A BB	47609.	12.423	UG/L	0.66
30	97	537	17:54	2	0.937	A BB	44515.	15.482	UG/L	0.82
31	78	530	17:40	2	0.925	A BB	271588.	15.931	UG/L	0.85
32	75	537	17:54	2	0.937	A BB	47930.	11.466	UG/L	0.61
33	63	568	18:56	2	0.991	A BB	22408.	15.476	UG/L	0.82
34	173	616	20:32	2	1.075	A BB	15963.	10.842	UG/L	0.58
35	43	628	20:56	3	0.905	A BB	43761.	22.196	UG/L	1.18
36	43	676	22:32	3	0.974	A BB	31279.	21.568	UG/L	1.15
37	164	685	22:50	3	0.987	A BB	77101.	12.521	UG/L	0.66
38	83	685	22:50	3	0.987	A BB	38980.	16.502	UG/L	0.88
39	92	724	24:08	3	1.043	A BB	176142.	15.371	UG/L	0.82
40	112	759	25:18	3	1.094	A BB	199094.	15.146	UG/L	0.80
41	106	821	27:22	3	1.183	A BB	99718.	15.420	UG/L	0.82
42	104	948	31:36	3	1.366	A BB	169736.	13.131	UG/L	0.70
43	106	957	31:54	3	1.379	A BB	238857.	29.900	UG/L	1.59
44	106	988	32:56	3	1.424	A BB	282321.	37.508	UG/L	1.99

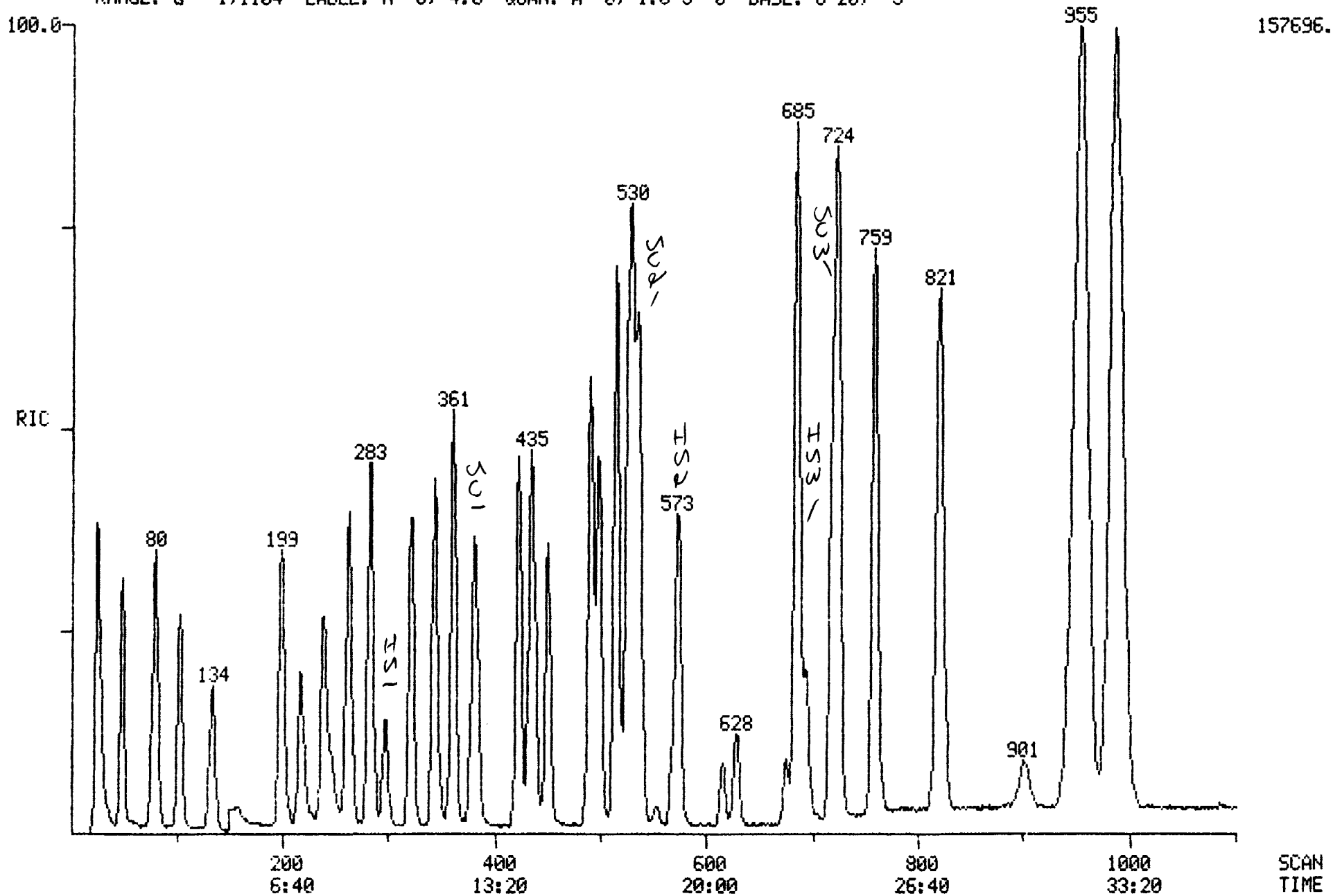
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
4	12:38	1.00	1.302	0.98	10.02	10.00	3.363	3.355	1.00
5	17:26	1.01	0.917	1.00	10.59	10.00	1.981	1.871	1.06
6	23:52	1.00	1.038	1.00	10.53	10.00	2.747	2.610	1.05
7	1:38	1.00	0.181	0.91	20.02	20.00	4.522	4.518	1.00
8	2:36	1.03	0.285	0.95	21.31	20.00	4.065	3.815	1.07
9	3:22	1.02	0.361	0.96	20.43	20.00	4.776	4.676	1.02
10	4:22	1.02	0.462	0.98	21.05	20.00	3.288	3.125	1.05

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	16.71	15.00	3.465	3.110	1.11
12	7:06	1.02	0.757	0.97	357.83	375.00	0.198	0.208	0.95
13	7:06	1.02	0.757	0.97	349.46	375.00	0.027	0.029	0.93
14	8:06	1.02	0.833	1.00	10.85	12.50	1.995	2.300	0.87
15	7:48	1.02	0.826	0.97	396.59	375.00	0.223	0.211	1.06
16	9:22	1.01	0.955	1.00	16.08	15.00	3.802	3.547	1.07
17	10:40	1.01	1.090	0.99	15.34	15.00	8.258	8.074	1.02
18	11:24	1.01	1.170	0.99	16.63	15.00	3.802	3.429	1.11
19	12:02	1.00	1.229	0.99	15.93	15.00	7.937	7.472	1.06
20	12:44	1.00	1.312	0.98	14.56	15.00	2.925	3.013	0.97
21	12:36	1.01	0.664	1.00	126.22	125.00	0.012	0.012	1.01
22	14:02	1.00	0.731	1.01	13.23	15.00	0.829	0.940	0.88
23	14:26	1.00	0.752	1.01	13.28	15.00	0.636	0.718	0.89
24	14:34	1.00	0.764	1.00	36.07	37.50	0.278	0.289	0.96
25	15:00	1.00	0.780	1.01	14.26	15.00	0.693	0.729	0.95
26	16:20	1.00	0.854	1.00	14.95	15.00	0.693	0.695	1.00
27	16:34	1.00	0.868	1.00	17.50	18.00	0.714	0.734	0.97
28	17:06	1.00	0.898	1.00	12.96	15.00	0.658	0.761	0.86
29	17:48	1.00	0.930	1.00	12.42	15.00	0.315	0.381	0.83
30	17:54	1.00	0.937	1.00	15.48	15.00	0.295	0.286	1.03
31	17:36	1.00	0.924	1.00	15.93	15.00	1.799	1.694	1.06
32	17:52	1.00	0.937	1.00	11.47	12.00	0.397	0.415	0.96
33	18:56	1.00	0.995	1.00	15.48	15.00	0.148	0.144	1.03
34	20:30	1.00	1.076	1.00	10.84	15.00	0.106	0.146	0.72
35	20:56	1.00	0.907	1.00	22.20	25.00	0.278	0.313	0.89
36	22:28	1.00	0.974	1.00	21.57	25.00	0.199	0.230	0.86
37	22:48	1.00	0.990	1.00	12.52	15.00	0.817	0.978	0.83
38	22:48	1.00	0.988	1.00	16.50	15.00	0.413	0.375	1.10
39	24:04	1.00	1.046	1.00	15.37	15.00	1.865	1.820	1.02
40	25:14	1.00	1.097	1.00	15.15	15.00	2.108	2.088	1.01
41	27:16	1.00	1.186	1.00	15.42	15.00	1.056	1.027	1.03
42	31:24	1.01	1.367	1.00	13.13	12.50	2.157	2.053	1.05
43	31:42	1.01	1.378	1.00	29.90	30.00	1.265	1.269	1.00
44	32:44	1.01	1.425	1.00	37.51	37.60	1.193	1.196	1.00

RIC
09/01/89 10:02:00
SAMPLE: CLP,0901,,CC0901,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: CC0901 #1
CALI: CC0901 #3

SCANS 1 TO 1100



Quantitation Report File: CC0831

Data: CC0831.TI
08/31/89 11:40:00
Sample: CLP,0831,,CC0831,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

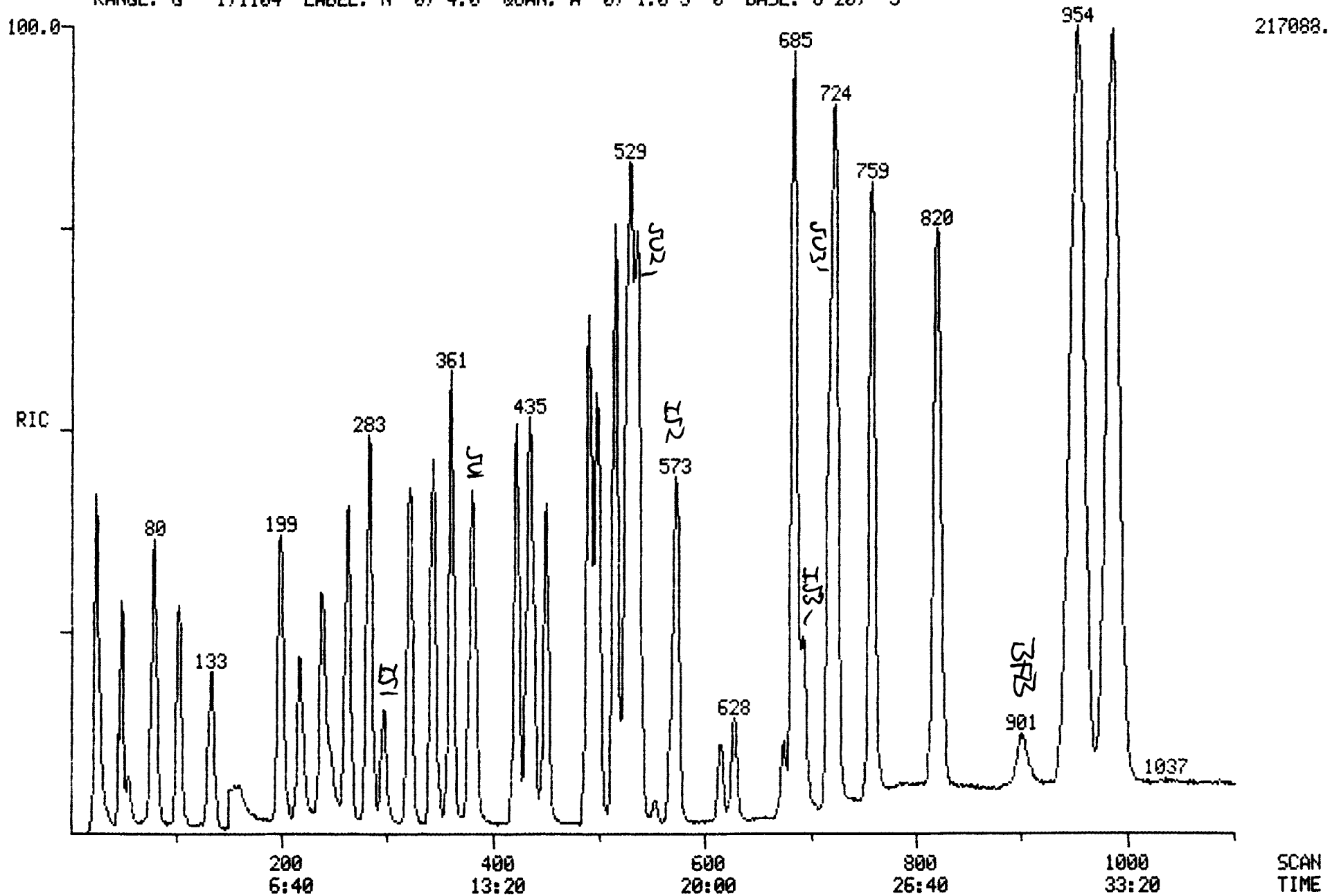
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
4	CS10	BENZENE-D6	*SURROGATE*
5	CS05	TOLUENE-D8	*SURROGATE*
6	C010	CHLOROMETHANE	
7	C015	BROMOMETHANE	
8	C020	VINYL CHLORIDE	
9	C025	CHLOROETHANE	
10	C030	METHYLENE CHLORIDE	
11	C035	ACETONE	
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	
33	C180	BROMOFORM	
34	C210	2-HEXANONE	
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	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	297	9:54	1	1.000	A BB	19773.	10.000	UG/L	0.50
2	77	574	19:08	2	1.000	A BB	143566.	10.000	UG/L	0.50
3	65	380	12:40	1	1.279	A BB	75305.	11.351	UG/L	0.57
4	84	525	17:30	2	0.915	A VB	274116.	10.206	UG/L	0.51
5	98	718	23:56	44	1.035	A BB	236952.	8.971	UG/L	0.45
6	50	49	1:38	1	0.165	A BB	156759.	17.548	UG/L	0.88
7	94	80	2:40	1	0.269	A BB	159807.	21.187	UG/L	1.06
8	62	103	3:26	1	0.347	A BB	201361.	21.779	UG/L	1.09
9	64	134	4:28	1	0.451	A BB	138978.	22.495	UG/L	1.13
10	84	199	6:38	1	0.670	A BB	104934.	17.065	UG/L	0.85
11	43	217	7:14	1	0.731	A BB	161510.	392.812	UG/L	19.65
12	56	218	7:16	1	0.734	A BB	23357.	403.127	UG/L	20.17
13	76	247	8:14	1	0.832	A BB	49549.	10.896	UG/L	0.55
14	53	238	7:56	1	0.801	A BB	171923.	412.031	UG/L	20.61
15	96	283	9:26	1	0.953	A BB	109849.	15.662	UG/L	0.78
16	63	321	10:42	1	1.081	A BB	255482.	16.003	UG/L	0.80
17	96	343	11:26	1	1.155	A BB	112517.	16.594	UG/L	0.83
18	83	361	12:02	1	1.215	A BV	240117.	16.252	UG/L	0.81
19	62	383	12:46	1	1.290	A BB	102617.	17.226	UG/L	0.86
20	72	380	12:40	2	0.662	A BB	21843.	131.692	UG/L	6.59
21	97	422	14:04	2	0.735	A BB	182284.	13.507	UG/L	0.68
22	117	434	14:28	2	0.756	A VB	146269.	14.188	UG/L	0.71
23	43	438	14:36	2	0.763	A BB	182699.	44.015	UG/L	2.20
24	83	450	15:00	2	0.784	A BB	159400.	15.237	UG/L	0.76
25	63	490	16:20	2	0.854	A BB	158726.	15.899	UG/L	0.80
26	75	498	16:36	2	0.868	A BB	199425.	18.912	UG/L	0.95
27	130	515	17:10	2	0.897	A BB	146595.	13.413	UG/L	0.67
28	129	534	17:48	2	0.930	A BB	78315.	14.327	UG/L	0.72
29	97	537	17:54	2	0.936	A BB	67136.	16.370	UG/L	0.82
30	78	530	17:40	2	0.923	A BB	385749.	15.864	UG/L	0.79
31	75	537	17:54	2	0.936	A BB	75542.	12.669	UG/L	0.63
32	63	569	18:58	2	0.991	A BB	34821.	16.860	UG/L	0.84
33	173	616	20:32	2	1.073	A BB	28379.	13.513	UG/L	0.68
34	43	628	20:56	44	0.905	A BB	69692.	21.986	UG/L	1.10
35	43	675	22:30	44	0.973	A BB	52969.	22.717	UG/L	1.14
36	164	685	22:50	44	0.987	A BB	114880.	11.604	UG/L	0.58
37	83	684	22:48	44	0.986	A BB	62452.	16.444	UG/L	0.82
38	92	724	24:08	44	1.043	A BB	258558.	14.033	UG/L	0.70
39	112	759	25:18	44	1.094	A BB	292840.	13.856	UG/L	0.69
40	106	821	27:22	44	1.183	A BB	137804.	13.254	UG/L	0.66
41	104	947	31:34	44	1.365	A BB	224199.	10.787	UG/L	0.54
42	106	954	31:48	44	1.375	A BB	320459.	24.950	UG/L	1.25
43	106	987	32:54	44	1.422	A BB	383924.	31.725	UG/L	1.59
44	55	694	23:08	44	1.000	A BB	101213.	10.000	UG/L	0.50

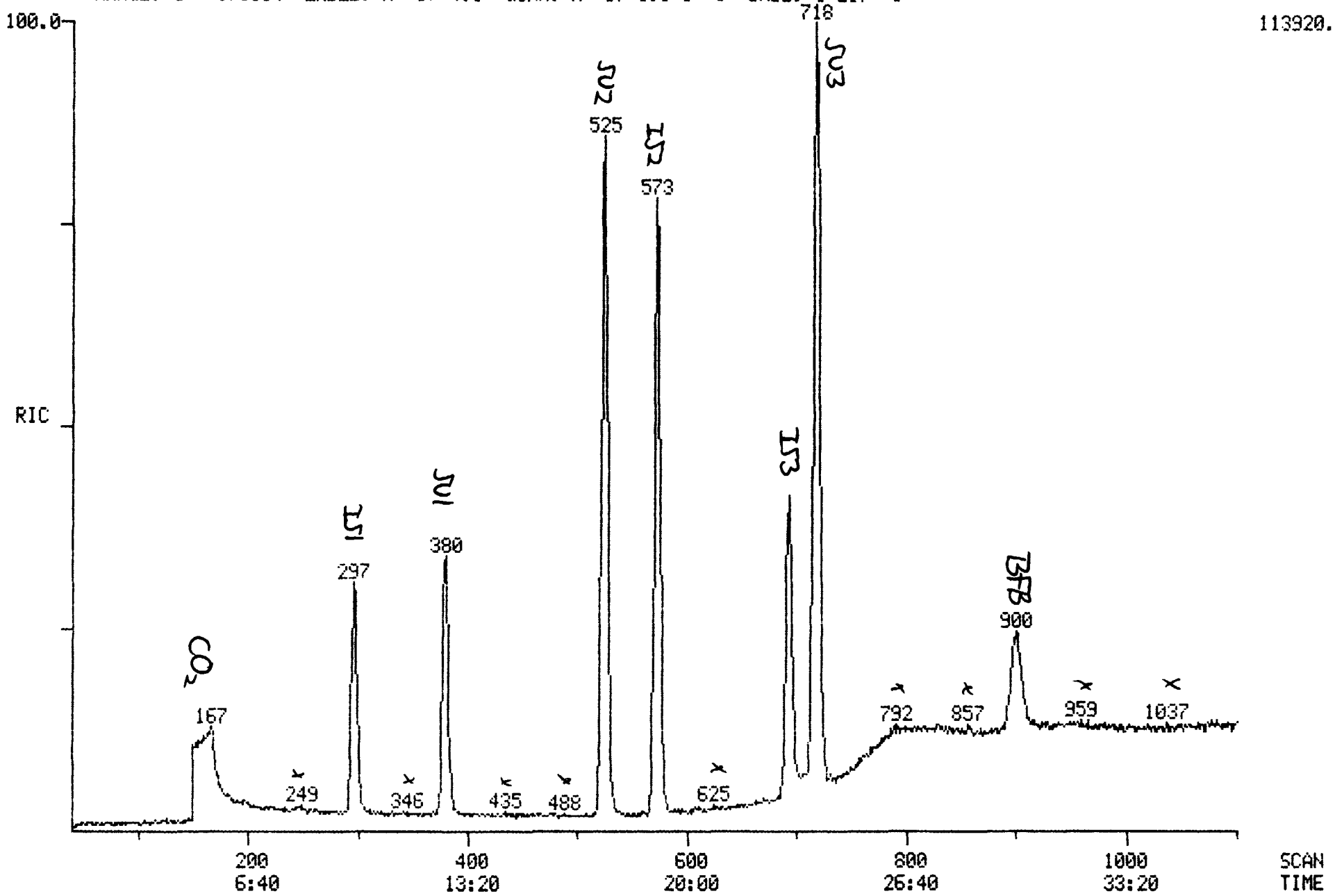
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	12:38	1.00	1.302	0.98	11.35	10.00	3.808	3.355	1.14
4	17:26	1.00	0.917	1.00	10.21	10.00	1.909	1.871	1.02
5	23:52	1.00	1.038	1.00	8.97	10.00	2.341	2.610	0.90
6	1:38	1.00	0.181	0.91	17.55	20.00	3.964	4.518	0.88
7	2:36	1.03	0.285	0.95	21.19	20.00	4.041	3.815	1.06
8	3:22	1.02	0.361	0.96	21.78	20.00	5.092	4.676	1.09
9	4:22	1.02	0.462	0.98	22.50	20.00	3.514	3.125	1.12
10	6:30	1.02	0.681	0.98	17.06	15.00	3.538	3.110	1.14

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	7:06	1.02	0.757	0.97	392.81	375.00	0.218	0.208	1.05
12	7:06	1.02	0.757	0.97	403.13	375.00	0.032	0.029	1.08
13	8:06	1.02	0.833	1.00	10.90	12.50	2.005	2.300	0.87
14	7:48	1.02	0.826	0.97	412.03	375.00	0.232	0.211	1.10
15	9:22	1.01	0.955	1.00	15.66	15.00	3.704	3.547	1.04
16	10:40	1.00	1.090	0.99	16.00	15.00	8.614	8.074	1.07
17	11:24	1.00	1.170	0.99	16.59	15.00	3.794	3.429	1.11
18	12:02	1.00	1.229	0.99	16.25	15.00	8.096	7.472	1.08
19	12:44	1.00	1.312	0.98	17.23	15.00	3.460	3.013	1.15
20	12:36	1.01	0.664	1.00	131.69	125.00	0.012	0.012	1.05
21	14:02	1.00	0.731	1.01	13.51	15.00	0.846	0.940	0.90
22	14:26	1.00	0.752	1.01	14.19	15.00	0.679	0.718	0.95
23	14:34	1.00	0.764	1.00	44.01	37.50	0.339	0.289	1.17
24	15:00	1.00	0.780	1.00	15.24	15.00	0.740	0.729	1.02
25	16:20	1.00	0.854	1.00	15.90	15.00	0.737	0.695	1.06
26	16:34	1.00	0.868	1.00	18.91	18.00	0.772	0.734	1.05
27	17:06	1.00	0.898	1.00	13.41	15.00	0.681	0.761	0.89
28	17:48	1.00	0.930	1.00	14.33	15.00	0.364	0.381	0.96
29	17:54	1.00	0.937	1.00	16.37	15.00	0.312	0.286	1.09
30	17:36	1.00	0.924	1.00	15.86	15.00	1.791	1.694	1.06
31	17:52	1.00	0.937	1.00	12.67	12.00	0.438	0.415	1.06
32	18:56	1.00	0.995	1.00	16.86	15.00	0.162	0.144	1.12
33	20:30	1.00	1.076	1.00	13.51	15.00	0.132	0.146	0.90
34	20:56	1.00	0.907	1.00	21.99	25.00	0.275	0.313	0.88
35	22:28	1.00	0.974	1.00	22.72	25.00	0.209	0.230	0.91
36	22:48	1.00	0.990	1.00	11.60	15.00	0.757	0.978	0.77
37	22:48	1.00	0.988	1.00	16.44	15.00	0.411	0.375	1.10
38	24:04	1.00	1.046	1.00	14.03	15.00	1.703	1.820	0.94
39	25:14	1.00	1.097	1.00	13.86	15.00	1.929	2.088	0.92
40	27:16	1.00	1.186	1.00	13.25	15.00	0.908	1.027	0.88
41	31:24	1.01	1.367	1.00	10.79	12.50	1.772	2.053	0.86
42	31:42	1.00	1.378	1.00	24.95	30.00	1.055	1.269	0.83
43	32:44	1.01	1.425	1.00	31.72	37.60	1.009	1.196	0.84
44	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00

RIC DATA: CC0831 #1 SCANS 1 TO 1100
08/31/89 11:40:00 CALI: CC0831 #3
SAMPLE: CLP,0831,,CC0831,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: 0831BLK1 #1 SCANS 40 TO 1100
08/31/89 10:55:00 CALI: 0831BLK1 #3
SAMPLE: CLP,0831,,0831BLK1,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: 0831BLK1

Data: 0831BLK1.TI
08/31/89 10:55:00
Sample: CLP,0831,,0831BLK1,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

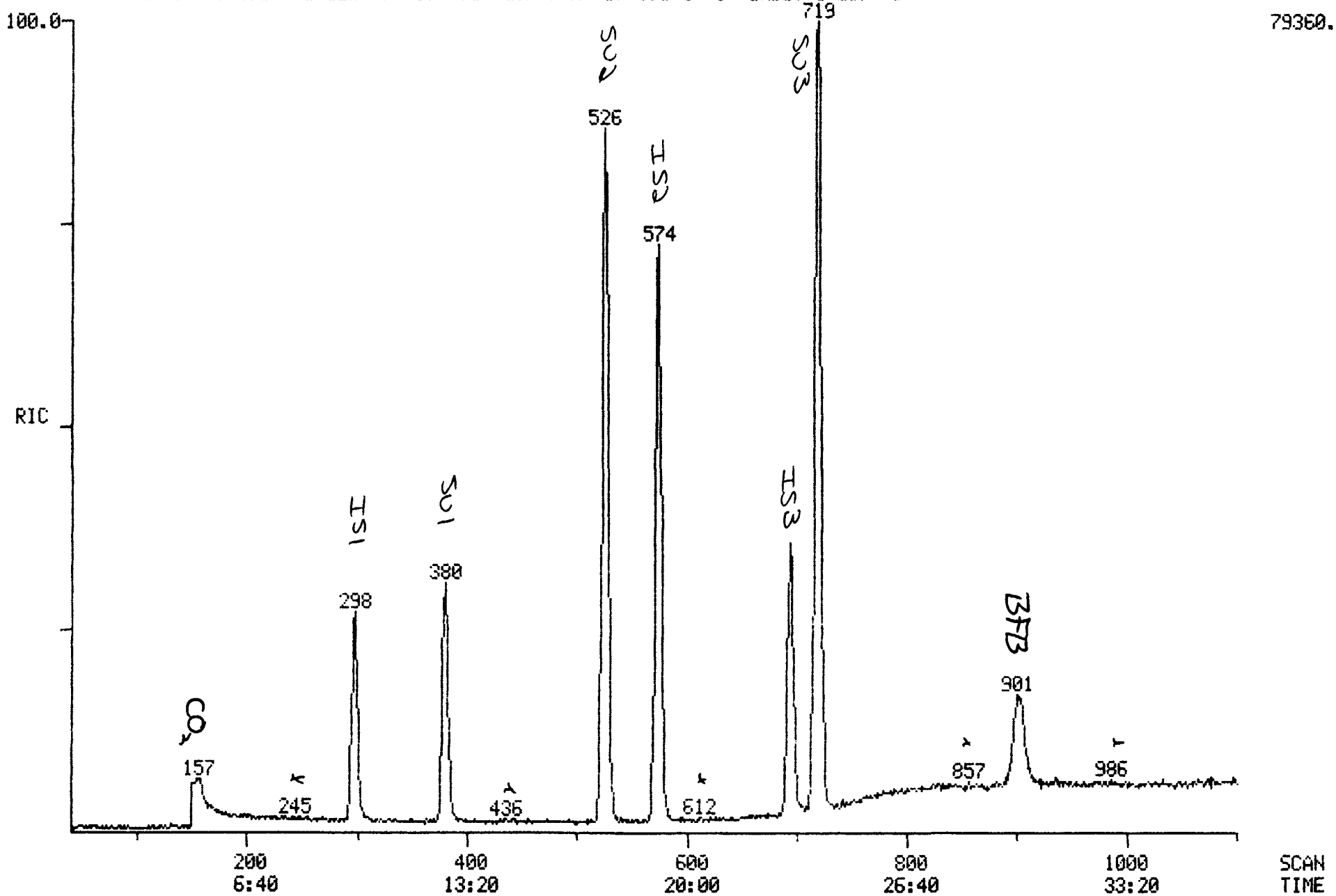
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

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*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	297	9:54	1	1.000	A BB	21893.	10.000 UG/L	16.87
2	77	573	19:06	2	1.000	A BV	144781.	10.000 UG/L	16.87
3	55	693	23:06	3	1.000	A BB	92729.	10.000 UG/L	16.87
4	65	380	12:40	1	1.279	A BB	74585.	8.945 UG/L	15.09
5	84	525	17:30	2	0.916	A BB	265067.	9.589 UG/L	16.18
6	98	718	23:56	3	1.036	A BB	232909.	10.729 UG/L	18.10

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	23:02	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	8.95	10.00	3.407	3.808	0.89
5	17:26	1.00	0.917	1.00	9.59	10.00	1.831	1.909	0.96
6	23:52	1.00	1.038	1.00	10.73	10.00	2.512	2.341	1.07

RIC DATA: 0901BLK1 #1 SCANS 40 TO 1100
09/01/89 9:12:00 CALI: 0901BLK1 #3
SAMPLE: CLP,0901,,0901BLK1,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: 0901BLK1

Data: 0901BLK1.TI
09/01/89 9:12:00
Sample: CLP,0901,,0901BLK1,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

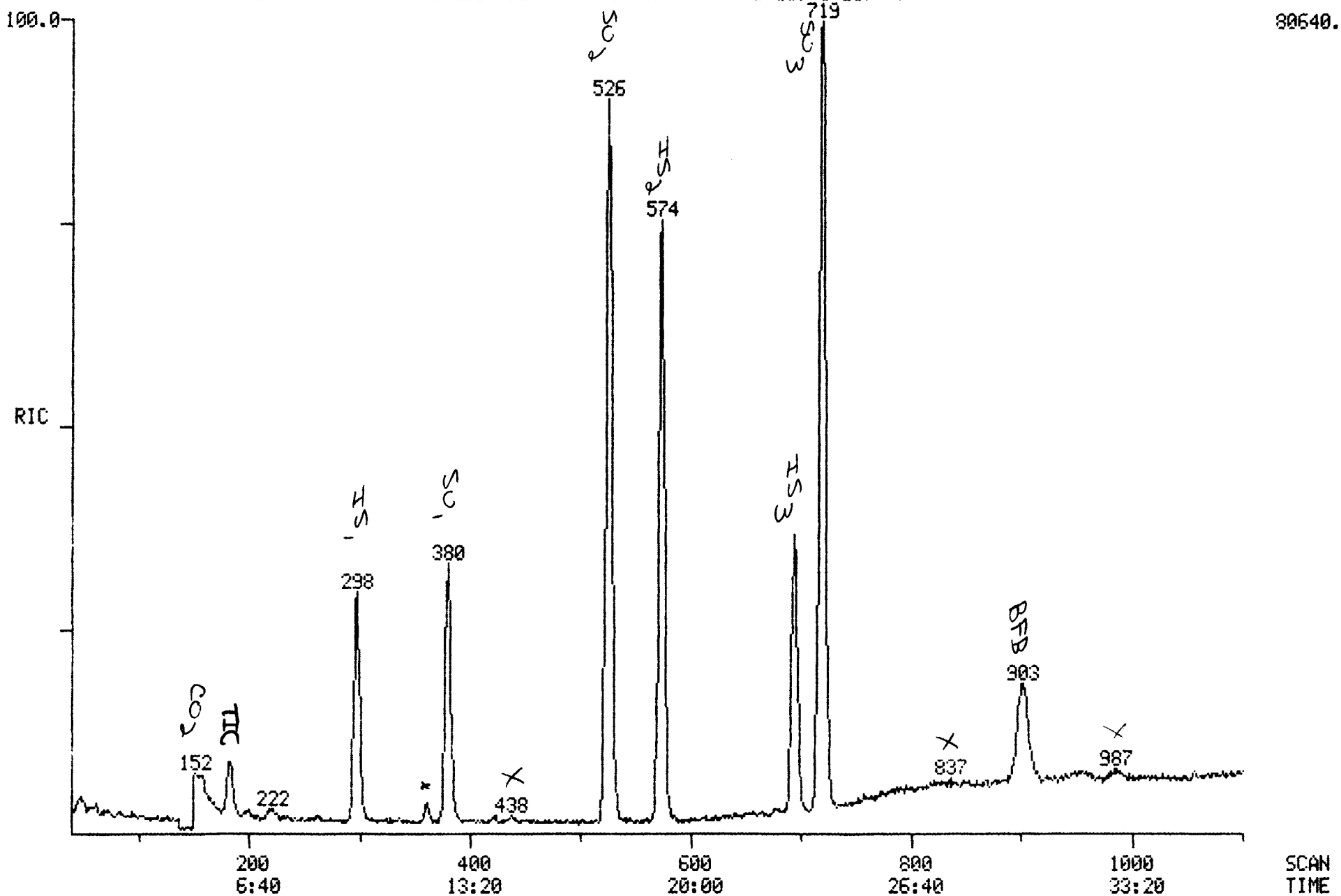
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

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*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	298	9:56	1	1.000	A BB	14030.	10.000 UG/L	16.62
2	77	574	19:08	2	1.000	A BB	98322.	10.000 UG/L	16.62
3	55	694	23:08	3	1.000	A BB	60331.	10.000 UG/L	16.62
4	65	380	12:40	1	1.275	A BB	45852.	9.717 UG/L	16.15
5	84	526	17:32	2	0.916	A BB	197178.	10.121 UG/L	16.82
6	98	718	23:56	3	1.035	A BB	171196.	10.328 UG/L	17.17

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	23:02	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	9.72	10.00	3.268	3.363	0.97
5	17:26	1.01	0.917	1.00	10.12	10.00	2.005	1.981	1.01
6	23:52	1.00	1.038	1.00	10.33	10.00	2.838	2.747	1.03

RIC DATA: 6500R95A #1 SCANS 40 TO 1100
03/01/89 11:28:00 CALI: 6500R95A #3
SAMPLE: CLP,6500,,89FD11R95,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: 6500R95A

Data: 6500R95A.TI
09/01/89 11:28:00
Sample: CLP,6500,,89FD11R95,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	15805.	10.000 UG/L	16.80
2	77	574	19:08	2	1.000	A BB	106515.	10.000 UG/L	16.80
3	55	694	23:08	3	1.000	A BB	64254.	10.000 UG/L	16.80
4	65	380	12:40	1	1.275	A BB	50932.	9.581 UG/L	16.09
5	84	526	17:32	2	0.916	A BB	210789.	9.988 UG/L	16.78
6	98	719	23:58	3	1.036	A BB	176002.	9.970 UG/L	16.75

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	23:02	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	3.223	3.363	0.96
5	17:26	1.01	0.917	1.00	9.99	10.00	1.979	1.981	1.00
6	23:52	1.00	1.038	1.00	9.97	10.00	2.739	2.747	1.00

Quantitation Report File: 6500R95T

Data: 6500R95A.TI
09/01/89 11:28:00
Sample: CLP,6500,,89FD11R95,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

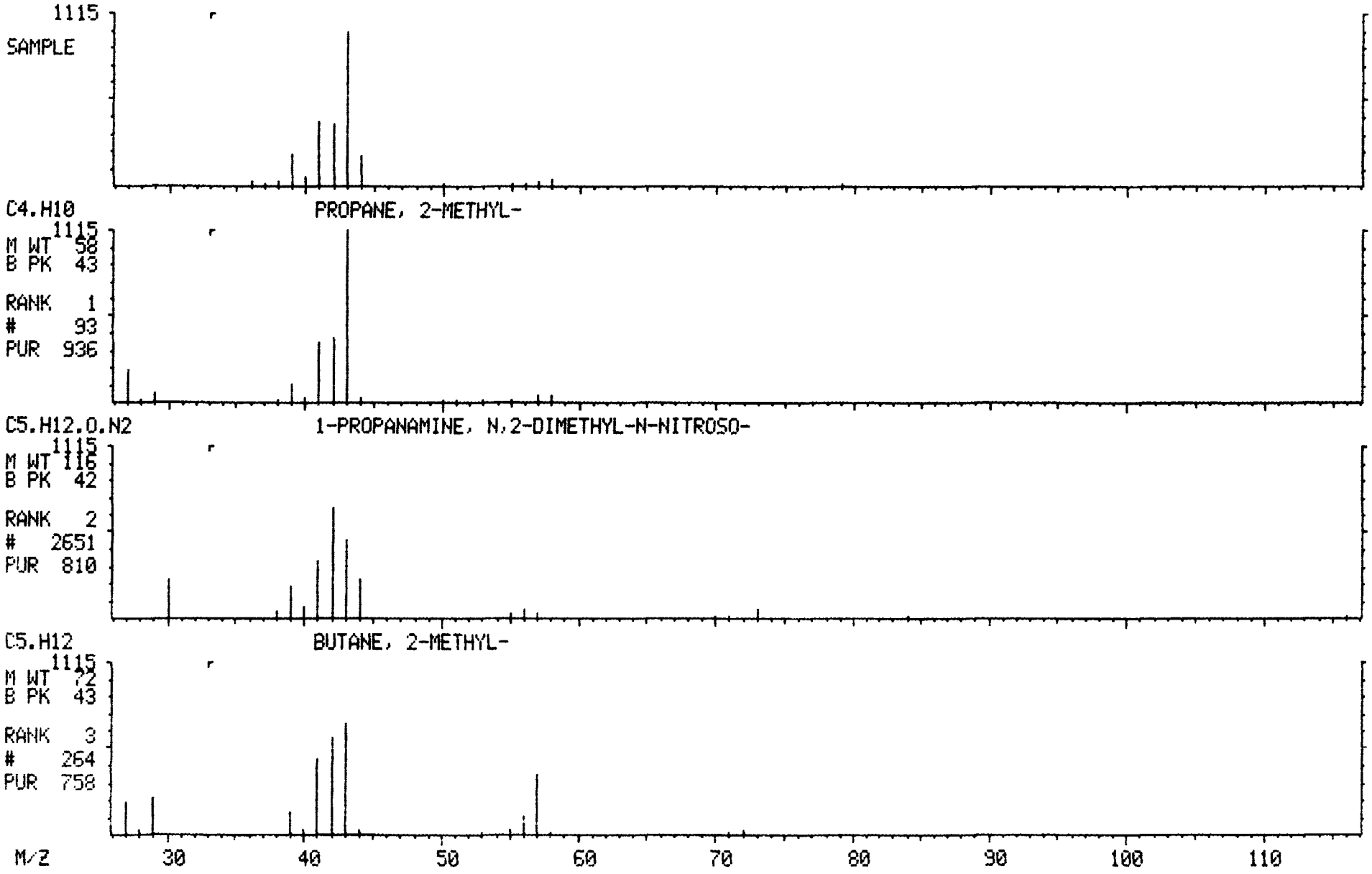
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	298	9:56	1	1.000	A BB	139388.	10.000 UG/L	29.22
2	RIC	183	6:06	1	0.614	A BB	33766.	24.224	70.78

2) $\frac{33766}{1} \times \frac{10}{139388} = 2$ ug/L

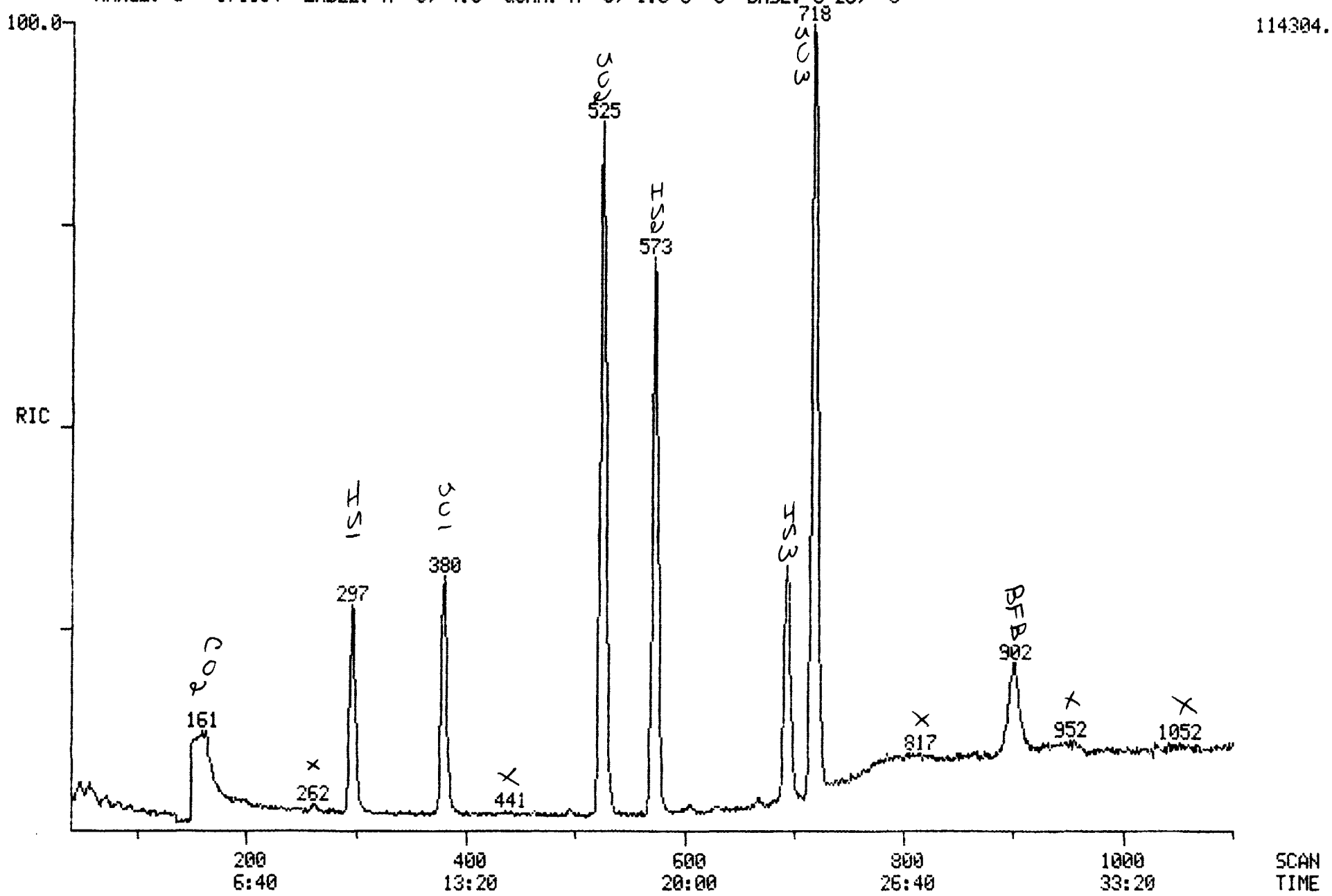
MID LIBRARY SEARCH (LIBRARYNB)
09/01/89 11:28:00 + 6:06
SAMPLE: CLP,6500,,89FD11R95,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 6500R95A # 183
CALI: 6500R95A # 3

BASE M/Z: 43
RIC: 5088.



RIC DATA: 6500568 #1 SCANS 40 TO 1100
08/31/89 13:43:00 CALI: 6500568 #3
SAMPLE: CLP,6500,,89FD29568,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: 6500S68

Data: 6500S68.TI
08/31/89 13:43:00
Sample: CLP,6500,,89FD29S68,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

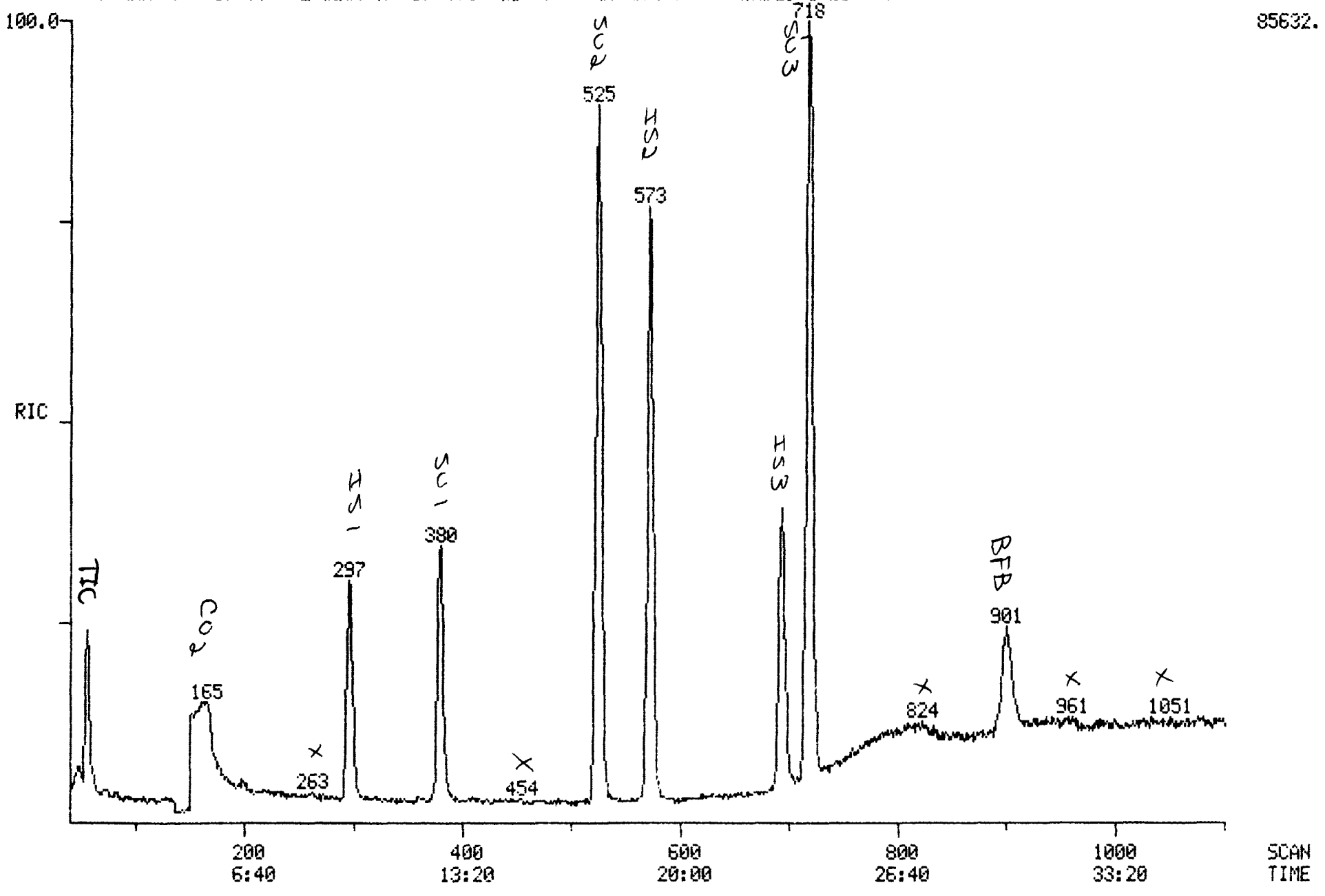
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

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

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	297	9:54	1	1.000	A BB	20503.	10.000 UG/L	16.51
2	77	573	19:06	2	1.000	A BB	136241.	10.000 UG/L	16.51
3	65	380	12:40	1	1.279	A BB	63446.	8.125 UG/L	13.41
4	84	525	17:30	2	0.916	A BB	276824.	10.642 UG/L	17.57
5	98	718	23:56	6	1.035	A BB	224550.	11.813 UG/L	19.50
6	55	694	23:08	6	1.000	A BB	81192.	10.000 UG/L	16.51

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	12:38	1.00	1.302	0.98	8.13	10.00	3.094	3.808	0.81
4	17:26	1.00	0.917	1.00	10.64	10.00	2.032	1.909	1.06
5	23:52	1.00	1.038	1.00	11.81	10.00	2.766	2.341	1.18
6	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00

RIC DATA: 6500569 #1 SCANS 40 TO 1100
08/31/89 14:27:00 CALI: 6500569 #3
SAMPLE: CLP,6500,,89FD29569,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: 6500S69

Data: 6500S69.TI
08/31/89 14:27:00
Sample: CLP,6500,,89FD29S69,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	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
4	CS10	BENZENE-D6	*SURROGATE*
5	CS05	TOLUENE-D8	*SURROGATE*
6	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	297	9:54	1	1.000	A BB	16036.	10.000 UG/L	16.83
2	77	573	19:06	2	1.000	A BB	110795.	10.000 UG/L	16.83
3	65	380	12:40	1	1.279	A BB	53869.	8.820 UG/L	14.84
4	84	525	17:30	2	0.916	A BB	208759.	9.868 UG/L	16.61
5	98	718	23:56	6	1.035	A BB	178177.	10.739 UG/L	18.07
6	55	694	23:08	6	1.000	A BB	70869.	10.000 UG/L	16.83

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	12:38	1.00	1.302	0.98	8.82	10.00	3.359	3.808	0.88
4	17:26	1.00	0.917	1.00	9.87	10.00	1.884	1.909	0.99
5	23:52	1.00	1.038	1.00	10.74	10.00	2.514	2.341	1.07
6	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00

Quantitation Report File: 6500S69T

Data: 6500S69.TI
08/31/89 14:27:00
Sample: CLP,6500,,89FD29S69,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	CIO1 BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	UNKNOWN

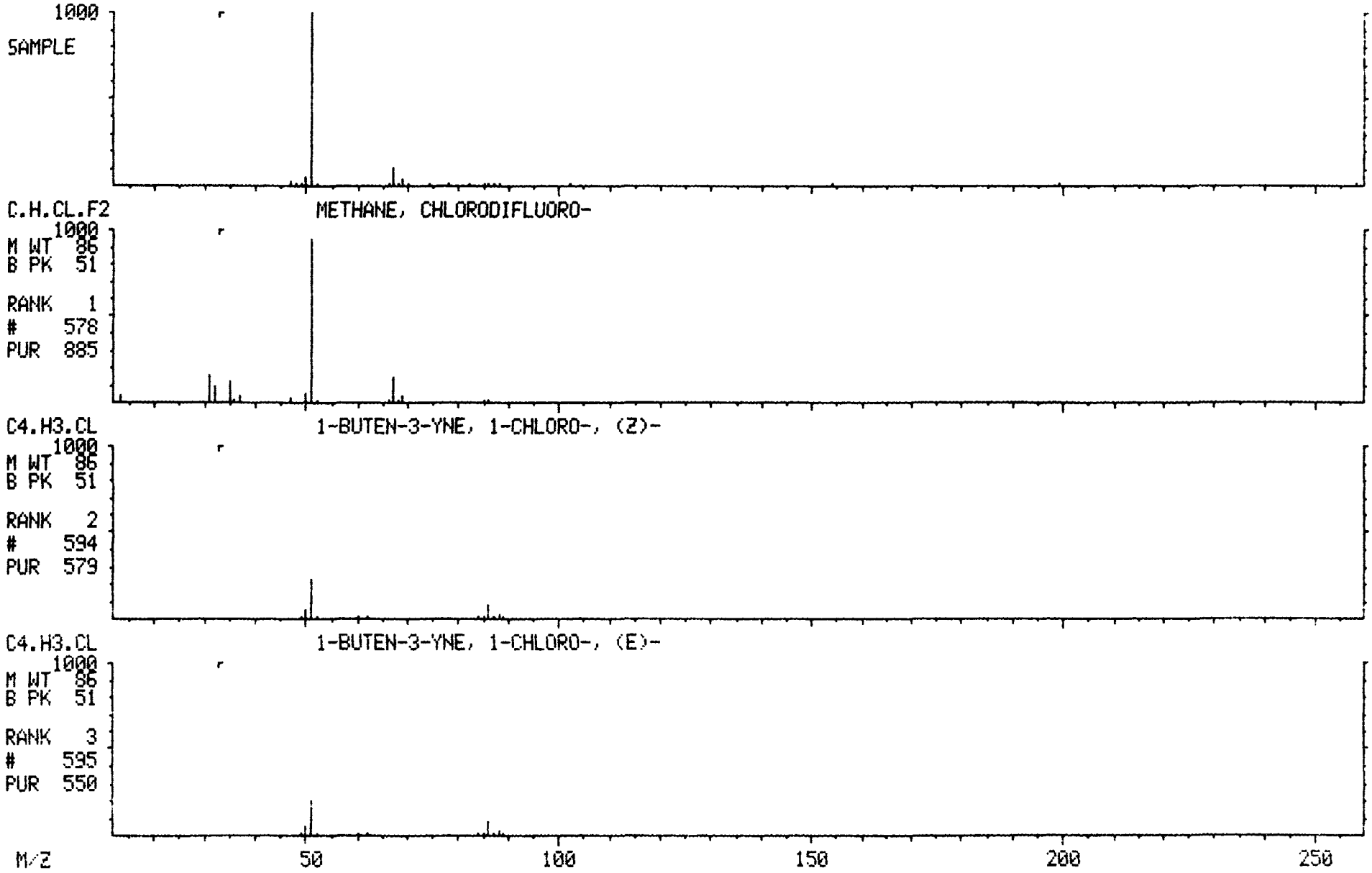
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	297	9:54	1	1.000	A BB	147072.	10.000 UG/L	15.47
2	RIC	56	1:52	1	0.189	A VB	80380.	54.653	84.53

2) $\frac{80380}{1} \times \frac{10}{147072} = 5$ ug/L

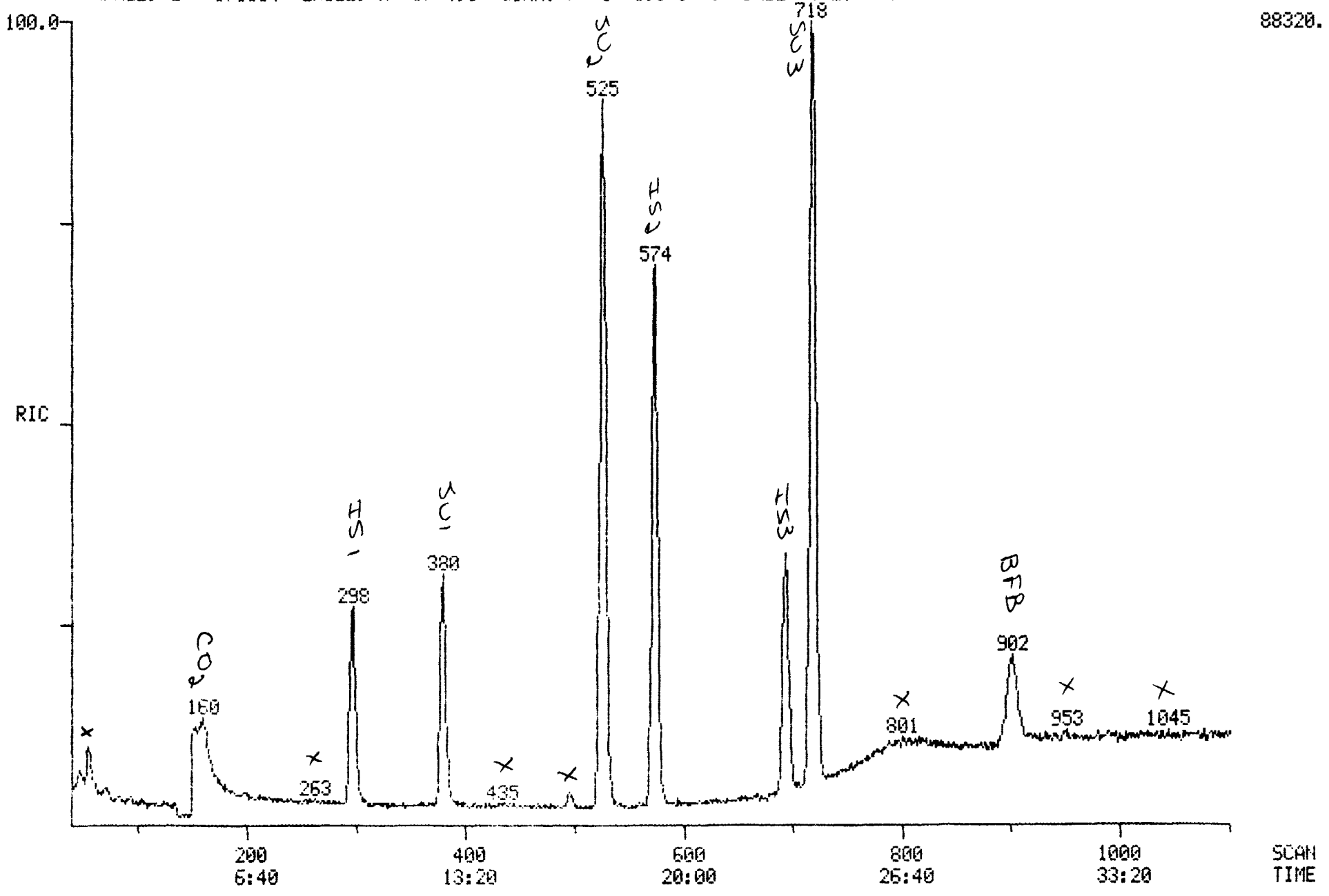
MID LIBRARY SEARCH (LIBRARYNB)
08/31/89 14:27:00 + 1:52
SAMPLE: CLP,6500,,89FD29569,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
ENHANCED (S 15B 2N 0T)

DATA: 6500S69 # 56
CALI: 6500S69 # 3

BASE M/Z: 51
RIC: 16352.



RIC DATA: 6500S70 #1 SCANS 40 TO 1100
08/31/89 15:16:00 CALI: 6500S70 #3
SAMPLE: CLP,6500,,89FD29S70,L,W,,U,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: 6500S70

Data: 6500S70.TI
08/31/89 15:16:00
Sample: CLP,6500,,89FD29S70,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

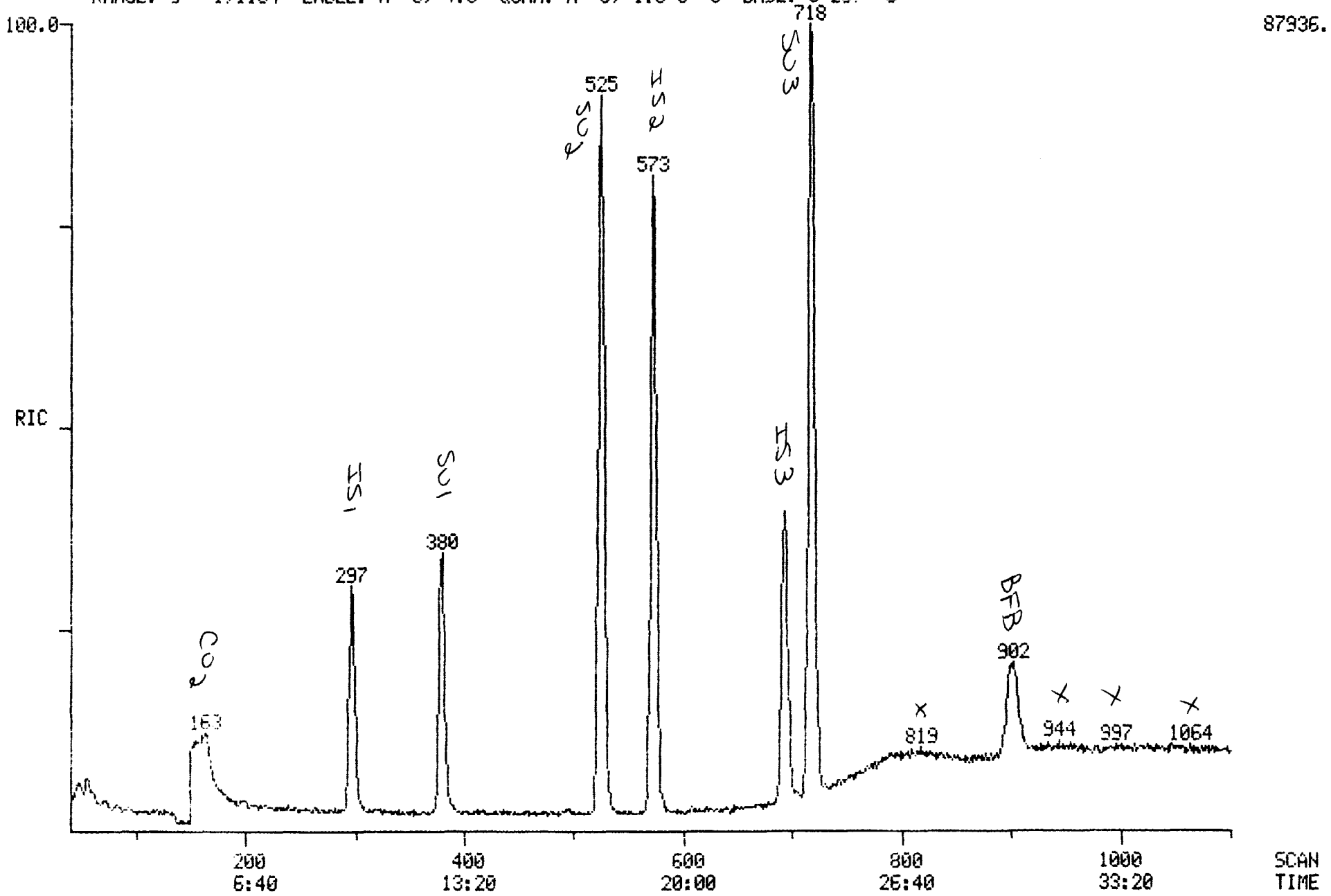
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

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	14853.	10.000 UG/L	16.20
2	77	574	19:08	2	1.000	A BB	100189.	10.000 UG/L	16.20
3	55	694	23:08	3	1.000	A BB	60178.	10.000 UG/L	16.20
4	65	380	12:40	1	1.279	A BB	48716.	8.612 UG/L	13.95
5	84	525	17:30	2	0.915	A BB	217173.	11.353 UG/L	18.39
6	98	718	23:56	3	1.035	A BB	165770.	11.766 UG/L	19.06

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	23:02	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	8.61	10.00	3.280	3.808	0.86
5	17:26	1.00	0.917	1.00	11.35	10.00	2.168	1.909	1.14
6	23:52	1.00	1.038	1.00	11.77	10.00	2.755	2.341	1.18

RIC DATA: 6500D70 #1 SCANS 40 TO 1100
08/31/89 16:00:00 CALI: 6500D70 #3
SAMPLE: CLP,6500,,89FD29D70,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: 6500D70

Data: 6500D70.TI
08/31/89 16:00:00
Sample: CLP,6500,,89FD29D70,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	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
4	CS10	BENZENE-D6	*SURROGATE*
5	CS05	TOLUENE-D8	*SURROGATE*
6	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*

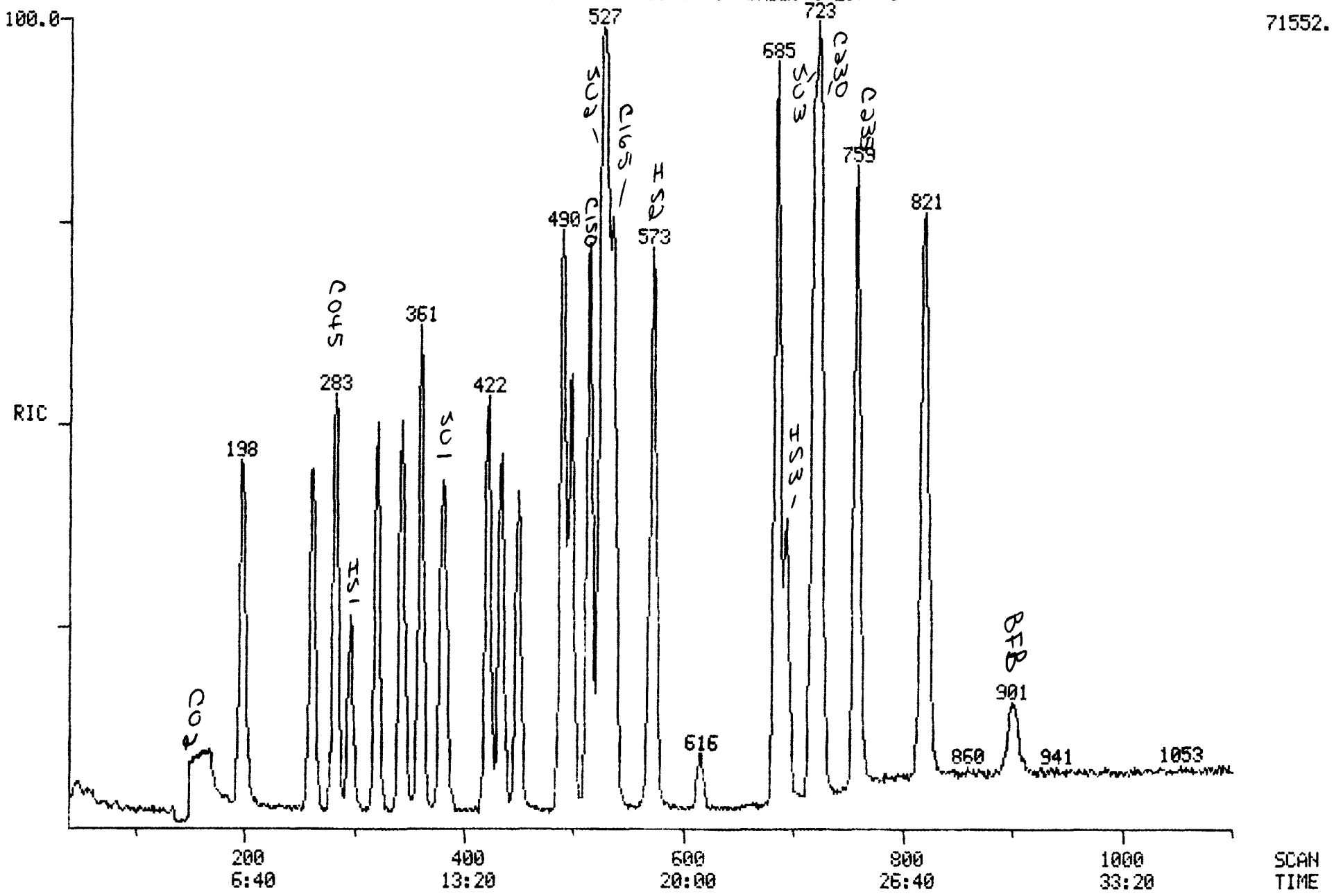
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	297	9:54	1	1.000	A BB	16429.	10.000 UG/L	16.92
2	77	573	19:06	2	1.000	A BB	115815.	10.000 UG/L	16.92
3	65	380	12:40	1	1.279	A BB	56393.	9.013 UG/L	15.25
4	84	525	17:30	2	0.916	A BB	216639.	9.797 UG/L	16.57
5	98	718	23:56	6	1.035	A BB	180552.	10.297 UG/L	17.42
6	55	694	23:08	6	1.000	A BB	74900.	10.000 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	12:38	1.00	1.302	0.98	9.01	10.00	3.433	3.808	0.90
4	17:26	1.00	0.917	1.00	9.80	10.00	1.871	1.909	0.98
5	23:52	1.00	1.038	1.00	10.30	10.00	2.411	2.341	1.03
6	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00

RIC
08/31/89 20:25:00
SAMPLE: CLP,6500,,89FD29569MS,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: 6500569M #1
CALI: 6500569M #3

SCANS 40 TO 1100



Quantitation Report File: 6500S69M

Data: 6500S69M.TI
08/31/89 20:25:00
Sample: CLP,6500,,89FD29S69MS,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	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
4	CS10	BENZENE-D6	*SURROGATE*
5	CS05	TOLUENE-D8	*SURROGATE*
6	C030	METHYLENE CHLORIDE	
7	C045	1,1-DICHLOROETHENE	
8	C050	1,1-DICHLOROETHANE	
9	C053	1,2-DICHLOROETHENE (TOTAL)	
10	C060	CHLOROFORM	
11	C065	1,2-DICHLOROETHANE	
12	C115	1,1,1-TRICHLOROETHANE	
13	C120	CARBON TETRACHLORIDE	
14	C130	BROMODICHLOROMETHANE	
15	C140	1,2-DICHLOROPROPANE	
16	C143	CIS-1,3-DICHLOROPROPENE	
17	C150	TRICHLOROETHENE	
18	C155	DIBROMOCHLOROMETHANE	
19	C160	1,1,2-TRICHLOROETHANE	
20	C165	BENZENE	
21	C172	TRANS-1,3-DICHLOROPROPENE	
22	C175	2-CHLOROETHYLVINYLETHER	
23	C180	BROMOFORM	
24	C220	TETRACHLOROETHENE	
25	C225	1,1,2,2-TETRACHLOROETHANE	
26	C230	TOLUENE	
27	C235	CHLOROBENZENE	
28	C240	ETHYL BENZENE	
29	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	297	9:54	1	1.000	A BB	9754.	10.000 UG/L	3.63
2	77	573	19:06	2	1.000	A BB	77302.	10.000 UG/L	3.63
3	65	379	12:38	1	1.276	A BB	42788.	11.518 UG/L	4.18
4	84	525	17:30	2	0.916	A BB	149465.	10.127 UG/L	3.67
5	98	718	23:56	29	1.036	A BB	120904.	9.428 UG/L	3.42
6	84	198	6:36	1	0.667	A BB	38857.	11.260 UG/L	4.08
7	96	283	9:26	1	0.953	A BB	38745.	10.725 UG/L	3.89
8	63	321	10:42	1	1.081	A BB	94659.	11.266 UG/L	4.09
9	96	343	11:26	1	1.155	A BB	37422.	10.113 UG/L	3.67
10	83	360	12:00	1	1.212	A BB	87611.	11.095 UG/L	4.02
11	62	383	12:46	1	1.290	A BB	36808.	10.907 UG/L	3.96
12	97	422	14:04	2	0.736	A BB	60039.	9.176 UG/L	3.33
13	117	434	14:28	2	0.757	A VB	41123.	7.832 UG/L	2.84
14	83	450	15:00	2	0.785	A BB	55493.	9.698 UG/L	3.52

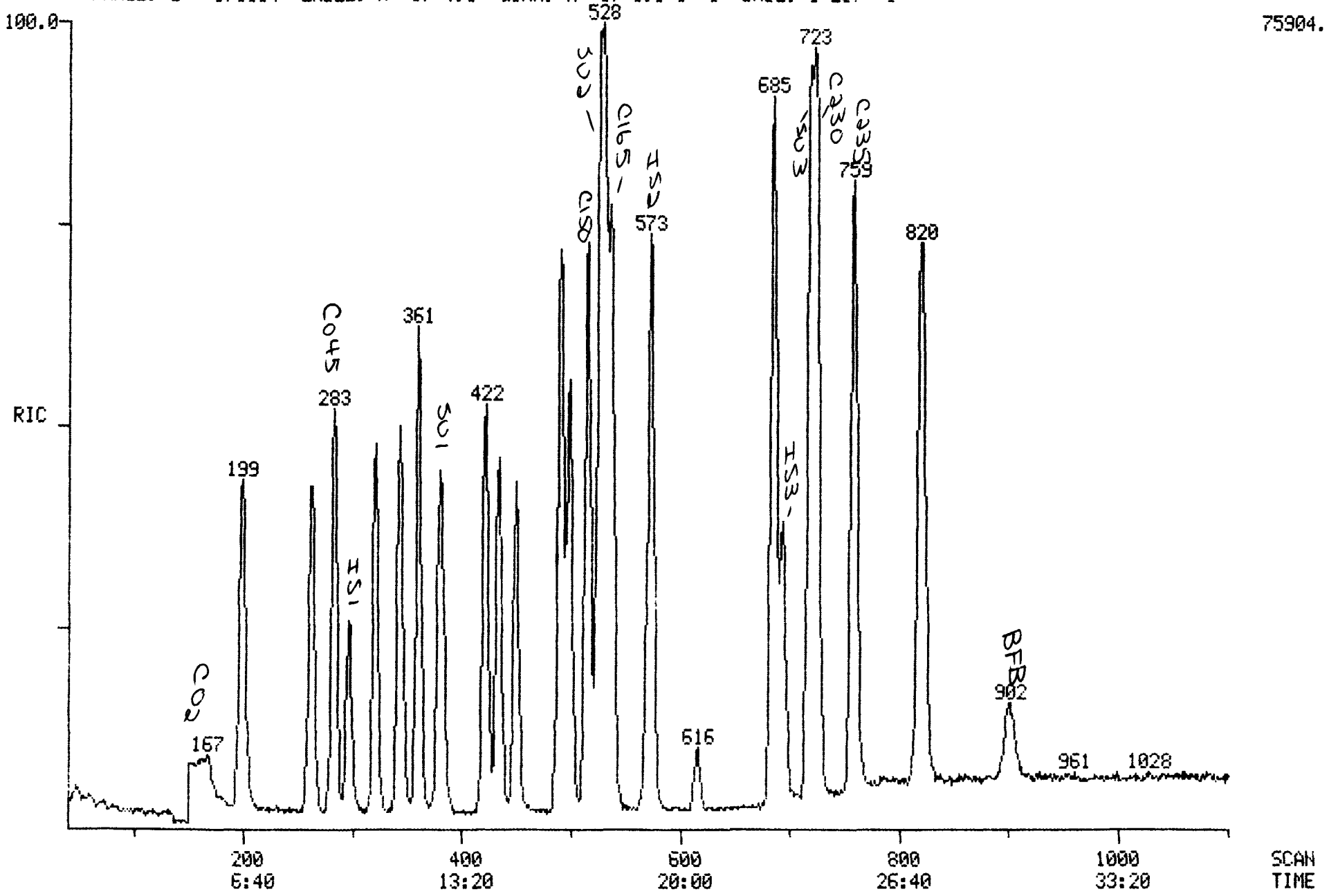
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
15	63	490	16:20	2	0.855	A BB	56031.	9.834	UG/L	3.57
16	75	498	16:36	2	0.869	A BB	63965.	10.722	UG/L	3.89
17	130	514	17:08	2	0.897	A BB	40899.	7.772	UG/L	2.82
18	129	534	17:48	2	0.932	A BB	22432.	7.979	UG/L	2.89
19	97	537	17:54	2	0.937	A BB	22713.	9.425	UG/L	3.42
20	78	530	17:40	2	0.925	A BB	133924.	9.672	UG/L	3.51
21	75	536	17:52	2	0.935	A BB	24878.	7.340	UG/L	2.66
22	63	568	18:56	2	0.991	A BB	12129.	9.704	UG/L	3.52
23	173	615	20:30	2	1.073	A BB	5924.	5.815	UG/L	2.11
24	164	685	22:50	29	0.988	A BB	31451.	7.588	UG/L	2.75
25	83	684	22:48	29	0.987	A BB	22209.	9.856	UG/L	3.57
26	92	724	24:08	29	1.045	A BB	86771.	9.302	UG/L	3.37
27	112	759	25:18	29	1.095	A BB	91943.	8.702	UG/L	3.16
28	106	821	27:22	29	1.185	A BB	44187.	8.887	UG/L	3.22
29	55	693	23:06	29	1.000	A BB	54775.	10.000	UG/L	3.63

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	12:38	1.00	1.302	0.98	11.52	10.00	4.387	3.808	1.15
4	17:26	1.00	0.917	1.00	10.13	10.00	1.934	1.909	1.01
5	23:52	1.00	1.038	1.00	9.43	10.00	2.207	2.341	0.94
6	6:30	1.02	0.681	0.98	11.26	15.00	2.656	3.538	0.75
7	9:22	1.01	0.955	1.00	10.73	15.00	2.648	3.704	0.72
8	10:40	1.00	1.090	0.99	11.27	15.00	6.470	8.614	0.75
9	11:24	1.00	1.170	0.99	10.11	15.00	2.558	3.794	0.67
10	12:02	1.00	1.229	0.99	11.09	15.00	5.988	8.096	0.74
11	12:44	1.00	1.312	0.98	10.91	15.00	2.516	3.460	0.73
12	14:02	1.00	0.731	1.01	9.18	15.00	0.518	0.846	0.61
13	14:26	1.00	0.752	1.01	7.83	15.00	0.355	0.679	0.52
14	15:00	1.00	0.780	1.01	9.70	15.00	0.479	0.740	0.65
15	16:20	1.00	0.854	1.00	9.83	15.00	0.483	0.737	0.66
16	16:34	1.00	0.868	1.00	10.72	18.00	0.460	0.772	0.60
17	17:06	1.00	0.898	1.00	7.77	15.00	0.353	0.681	0.52
18	17:48	1.00	0.930	1.00	7.98	15.00	0.193	0.364	0.53
19	17:54	1.00	0.937	1.00	9.42	15.00	0.196	0.312	0.63
20	17:36	1.00	0.924	1.00	9.67	15.00	1.155	1.791	0.64
21	17:52	1.00	0.937	1.00	7.34	12.00	0.268	0.438	0.61
22	18:56	1.00	0.995	1.00	9.70	15.00	0.105	0.162	0.65
23	20:30	1.00	1.076	1.00	5.82	15.00	0.051	0.132	0.39
24	22:48	1.00	0.990	1.00	7.59	15.00	0.383	0.757	0.51
25	22:48	1.00	0.988	1.00	9.86	15.00	0.270	0.411	0.66
26	24:04	1.00	1.046	1.00	9.30	15.00	1.056	1.703	0.62
27	25:14	1.00	1.097	1.00	8.70	15.00	1.119	1.929	0.58
28	27:16	1.00	1.186	1.00	8.89	15.00	0.538	0.908	0.59
29	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00

RIC
08/31/89 21:09:00
SAMPLE: CLP,6500,,89FD29S63MSD,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: 6500S69D #1
CALI: 6500S69D #3

SCANS 40 TO 1100



Quantitation Report File: 6500S69D

Data: 6500S69D.TI
08/31/89 21:09:00
Sample: CLP,6500,,89FD29S69MSD,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

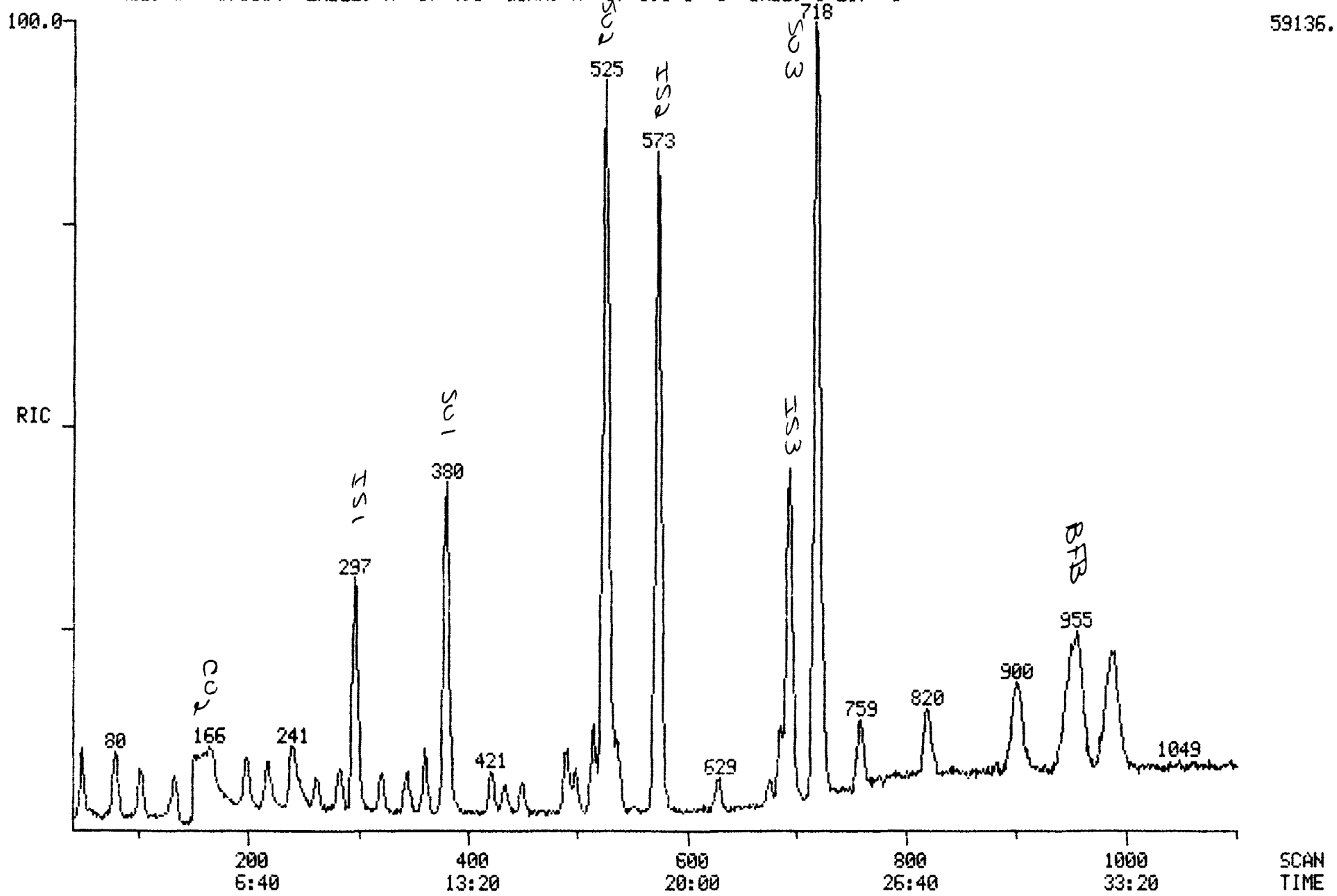
No	Name		
1	CI01	BROMOCHLOROMETHANE	*INTERNAL STANDARD*
2	CI10	2-BROMO-1-CHLOROPROPANE	*INTERNAL STANDARD*
3	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
4	CS10	BENZENE-D6	*SURROGATE*
5	CS05	TOLUENE-D8	*SURROGATE*
6	C030	METHYLENE CHLORIDE	
7	C045	1,1-DICHLOROETHENE	
8	C050	1,1-DICHLOROETHANE	
9	C053	1,2-DICHLOROETHENE (TOTAL)	
10	C060	CHLOROFORM	
11	C065	1,2-DICHLOROETHANE	
12	C115	1,1,1-TRICHLOROETHANE	
13	C120	CARBON TETRACHLORIDE	
14	C130	BROMODICHLOROMETHANE	
15	C140	1,2-DICHLOROPROPANE	
16	C143	CIS-1,3-DICHLOROPROPENE	
17	C150	TRICHLOROETHENE	
18	C155	DIBROMOCHLOROMETHANE	
19	C160	1,1,2-TRICHLOROETHANE	
20	C165	BENZENE	
21	C172	TRANS-1,3-DICHLOROPROPENE	
22	C175	2-CHLOROETHYLVINYLETHER	
23	C180	BROMOFORM	
24	C220	TETRACHLOROETHENE	
25	C225	1,1,2,2-TETRACHLOROETHANE	
26	C230	TOLUENE	
27	C235	CHLOROBENZENE	
28	C240	ETHYL BENZENE	
29	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	296	9:52	1	1.000	A BB	11169.	10.000 UG/L	3.82
2	77	573	19:06	2	1.000	A BB	87631.	10.000 UG/L	3.82
3	65	379	12:38	1	1.280	A BB	46460.	10.922 UG/L	4.17
4	84	525	17:30	2	0.916	A VB	157852.	9.434 UG/L	3.60
5	98	719	23:58	29	1.038	A BB	130190.	9.371 UG/L	3.58
6	84	198	6:36	1	0.669	A BB	41187.	10.423 UG/L	3.98
7	96	283	9:26	1	0.956	A BB	40343.	9.753 UG/L	3.72
8	63	321	10:42	1	1.084	A BB	97567.	10.141 UG/L	3.87
9	96	343	11:26	1	1.159	A BB	38776.	9.152 UG/L	3.49
10	83	360	12:00	1	1.216	A BB	90885.	10.051 UG/L	3.84
11	62	382	12:44	1	1.291	A BB	41100.	10.636 UG/L	4.06
12	97	422	14:04	2	0.736	A BB	61615.	8.307 UG/L	3.17
13	117	434	14:28	2	0.757	A VB	42479.	7.137 UG/L	2.72
14	83	450	15:00	2	0.785	A BB	58823.	9.069 UG/L	3.46

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
15	63	490	16:20	2	0.855	A BB	57800.	8.949 UG/L	3.42
16	75	498	16:36	2	0.869	A BB	70854.	10.477 UG/L	4.00
17	130	515	17:10	2	0.899	A BB	44325.	7.430 UG/L	2.84
18	129	534	17:48	2	0.932	A BB	24176.	7.586 UG/L	2.90
19	97	537	17:54	2	0.937	A BB	25833.	9.456 UG/L	3.61
20	78	530	17:40	2	0.925	A BB	143104.	9.117 UG/L	3.48
21	75	537	17:54	2	0.937	A BB	24831.	6.462 UG/L	2.47
22	63	568	18:56	2	0.991	A BB	12628.	8.912 UG/L	3.40
23	173	616	20:32	2	1.075	A BB	7158.	6.198 UG/L	2.37
24	164	685	22:50	29	0.988	A BB	32818.	7.308 UG/L	2.79
25	83	684	22:48	29	0.987	A BB	23816.	9.756 UG/L	3.72
26	92	724	24:08	29	1.045	A BB	89784.	8.883 UG/L	3.39
27	112	759	25:18	29	1.095	A BB	96507.	8.431 UG/L	3.22
28	106	820	27:20	29	1.183	A BB	46435.	8.620 UG/L	3.29
29	55	693	23:06	29	1.000	A BB	59345.	10.000 UG/L	3.82

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	12:38	1.00	1.302	0.98	10.92	10.00	4.160	3.808	1.09
4	17:26	1.00	0.917	1.00	9.43	10.00	1.801	1.909	0.94
5	23:52	1.00	1.038	1.00	9.37	10.00	2.194	2.341	0.94
6	6:30	1.02	0.681	0.98	10.42	15.00	2.458	3.538	0.69
7	9:22	1.01	0.955	1.00	9.75	15.00	2.408	3.704	0.65
8	10:40	1.00	1.090	0.99	10.14	15.00	5.824	8.614	0.68
9	11:24	1.00	1.170	0.99	9.15	15.00	2.315	3.794	0.61
10	12:02	1.00	1.229	0.99	10.05	15.00	5.425	8.096	0.67
11	12:44	1.00	1.312	0.98	10.64	15.00	2.453	3.460	0.71
12	14:02	1.00	0.731	1.01	8.31	15.00	0.469	0.846	0.55
13	14:26	1.00	0.752	1.01	7.14	15.00	0.323	0.679	0.48
14	15:00	1.00	0.780	1.01	9.07	15.00	0.448	0.740	0.60
15	16:20	1.00	0.854	1.00	8.95	15.00	0.440	0.737	0.60
16	16:34	1.00	0.868	1.00	10.48	18.00	0.449	0.772	0.58
17	17:06	1.00	0.898	1.00	7.43	15.00	0.337	0.681	0.50
18	17:48	1.00	0.930	1.00	7.59	15.00	0.184	0.364	0.51
19	17:54	1.00	0.937	1.00	9.46	15.00	0.197	0.312	0.63
20	17:36	1.00	0.924	1.00	9.12	15.00	1.089	1.791	0.61
21	17:52	1.00	0.937	1.00	6.46	12.00	0.236	0.438	0.54
22	18:56	1.00	0.995	1.00	8.91	15.00	0.096	0.162	0.59
23	20:30	1.00	1.076	1.00	6.20	15.00	0.054	0.132	0.41
24	22:48	1.00	0.990	1.00	7.31	15.00	0.369	0.757	0.49
25	22:48	1.00	0.988	1.00	9.76	15.00	0.268	0.411	0.65
26	24:04	1.00	1.046	1.00	8.88	15.00	1.009	1.703	0.59
27	25:14	1.00	1.097	1.00	8.43	15.00	1.084	1.929	0.56
28	27:16	1.00	1.186	1.00	8.62	15.00	0.522	0.908	0.57
29	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00

RIC DATA: MDL0831 #1 SCANS 40 TO 1100
08/31/89 21:53:00 CALI: MDL0831 #3
SAMPLE: CLP,0831,,MDL0831,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: MDL0831

Data: MDL0831.TI
08/31/89 21:53:00
Sample: CLP,0831,,MDL0831,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	CS15	1,2-DICHLOROETHANE-D4	*SURROGATE*
4	CS10	BENZENE-D6	*SURROGATE*
5	CS05	TOLUENE-D8	*SURROGATE*
6	C010	CHLOROMETHANE	
7	C015	BROMOMETHANE	
8	C020	VINYL CHLORIDE	
9	C025	CHLOROETHANE	
10	C030	METHYLENE CHLORIDE	
11	C035	ACETONE	
12	C040	CARBON DISULFIDE	
13	C043	ACRYLONITRILE	
14	C045	1,1-DICHLOROETHENE	
15	C050	1,1-DICHLOROETHANE	
16	C053	1,2-DICHLOROETHENE (TOTAL)	
17	C060	CHLOROFORM	
18	C065	1,2-DICHLOROETHANE	
19	C110	2-BUTANONE	
20	C115	1,1,1-TRICHLOROETHANE	
21	C120	CARBON TETRACHLORIDE	
22	C130	BROMODICHLOROMETHANE	
23	C140	1,2-DICHLOROPROPANE	
24	C143	CIS-1,3-DICHLOROPROPENE	
25	C150	TRICHLOROETHENE	
26	C155	DIBROMOCHLOROMETHANE	
27	C160	1,1,2-TRICHLOROETHANE	
28	C165	BENZENE	
29	C172	TRANS-1,3-DICHLOROPROPENE	
30	C175	2-CHLOROETHYLVINYLETHER	
31	C210	2-HEXANONE	
32	C205	4-METHYL-2-PENTANONE	
33	C220	TETRACHLOROETHENE	
34	C225	1,1,2,2-TETRACHLOROETHANE	
35	C230	TOLUENE	
36	C235	CHLOROBENZENE	
37	C240	ETHYL BENZENE	
38	C245	STYRENE	
39	C260	M-XYLENE	
40	C270	O-&/OR P-XYLENE	
41	CI20	1,4-DICHLOROBUTANE	*INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	298	9:56	1	1.000	A BB	10046.	10.000	UG/L	3.90
2	77	573	19:06	2	1.000	A BB	83403.	10.000	UG/L	3.90
3	65	380	12:40	1	1.275	A BB	41462.	10.837	UG/L	4.22
4	84	525	17:30	2	0.916	A BB	145513.	9.138	UG/L	3.56
5	98	718	23:56	41	1.036	A BB	123152.	9.307	UG/L	3.62
6	50	49	1:38	1	0.164	A BB	12836.	3.223	UG/L	1.26
7	94	80	2:40	1	0.268	A BB	10107.	2.490	UG/L	0.97
8	62	102	3:24	1	0.342	A BB	11611.	2.270	UG/L	0.88
9	64	133	4:26	1	0.446	A BB	9374.	2.655	UG/L	1.03
10	84	198	6:36	1	0.664	A BB	4482.	1.261	UG/L	0.49
11	43	218	7:16	1	0.732	A BB	14748.	67.400	UG/L	26.25
12	76	248	8:16	1	0.832	A BB	2871.	1.426	UG/L	0.56
13	53	240	8:00	1	0.805	A BB	15631.	67.108	UG/L	26.14
14	96	283	9:26	1	0.950	A BB	2898.	0.779	UG/L	0.30
15	63	321	10:42	1	1.077	A BB	9248.	1.069	UG/L	0.42
16	96	345	11:30	1	1.158	A BB	3376.	0.886	UG/L	0.35
17	83	361	12:02	1	1.211	A BB	8558.	1.052	UG/L	0.41
18	62	383	12:46	1	1.285	A BB	4099.	1.179	UG/L	0.46
19	72	380	12:40	2	0.663	A BB	1752.	17.258	UG/L	6.72
20	97	423	14:06	2	0.738	A BB	5058.	0.716	UG/L	0.28
21	117	434	14:28	2	0.757	A BB	2440.	0.431	UG/L	0.17
22	83	449	14:58	2	0.784	A BB	4261.	0.690	UG/L	0.27
23	63	491	16:22	2	0.857	A BB	5442.	0.885	UG/L	0.34
24	75	498	16:36	2	0.869	A BB	5374.	0.835	UG/L	0.33
25	130	515	17:10	2	0.899	A BB	5351.	0.942	UG/L	0.37
26	129	535	17:50	2	0.934	A BB	1820.	0.600	UG/L	0.23
27	97	536	17:52	2	0.935	A BB	2540.	0.977	UG/L	0.38
28	78	530	17:40	2	0.925	A BB	14469.	0.969	UG/L	0.38
29	75	536	17:52	2	0.935	A BB	1993.	0.545	UG/L	0.21
30	63	570	19:00	2	0.995	A BB	1909.	1.416	UG/L	0.55
31	43	629	20:58	41	0.908	A BB	6574.	4.223	UG/L	1.64
32	43	675	22:30	41	0.974	A BB	4303.	3.636	UG/L	1.42
33	164	685	22:50	41	0.988	A BB	2694.	0.630	UG/L	0.25
34	83	684	22:48	41	0.987	A BB	1911.	0.822	UG/L	0.32
35	92	724	24:08	41	1.045	A BB	8497.	0.883	UG/L	0.34
36	112	759	25:18	41	1.095	A BB	8588.	0.788	UG/L	0.31
37	106	819	27:18	41	1.182	A BB	4460.	0.869	UG/L	0.34
38	104	948	31:36	41	1.368	A BB	15336.	1.531	UG/L	0.60
39	106	956	31:52	41	1.380	A BB	13023.	2.183	UG/L	0.85
40	106	986	32:52	41	1.423	A BB	16134.	2.829	UG/L	1.10
41	55	693	23:06	41	1.000	A BB	56523.	10.000	UG/L	3.90

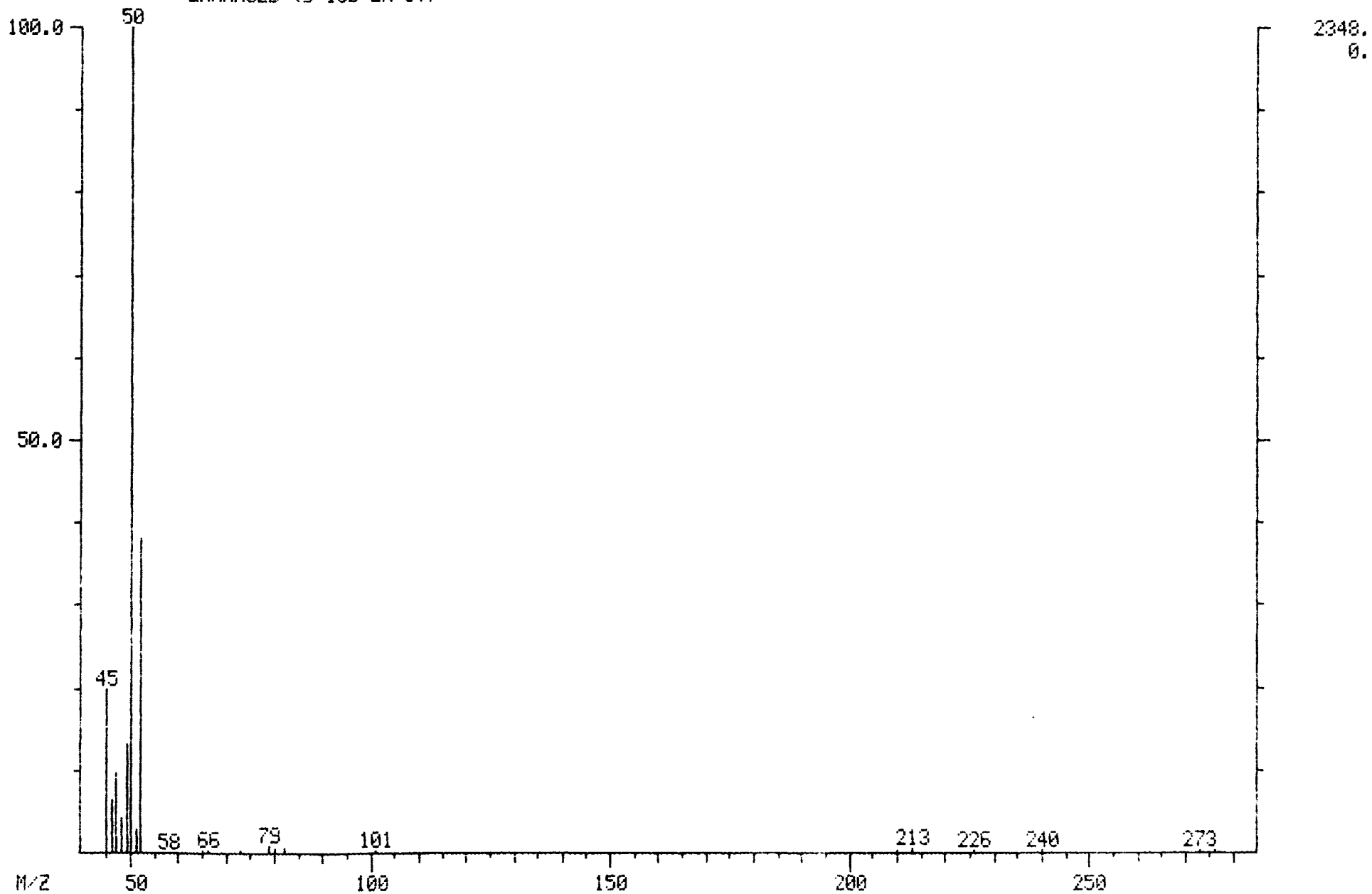
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:52	1.01	1.000	1.00	10.00	10.00	1.000	1.000	1.00
2	19:06	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00
3	12:38	1.00	1.302	0.98	10.84	10.00	4.127	3.808	1.08
4	17:26	1.00	0.917	1.00	9.14	10.00	1.745	1.909	0.91
5	23:52	1.00	1.038	1.00	9.31	10.00	2.179	2.341	0.93
6	1:38	1.00	0.181	0.91	3.22	20.00	0.639	3.964	0.16
7	2:36	1.03	0.285	0.94	2.49	20.00	0.503	4.041	0.12
8	3:22	1.01	0.361	0.95	2.27	20.00	0.578	5.092	0.11
9	4:22	1.02	0.462	0.97	2.66	20.00	0.467	3.514	0.13
10	6:30	1.02	0.681	0.98	1.26	15.00	0.297	3.538	0.08
11	7:06	1.02	0.757	0.97	67.40	375.00	0.039	0.218	0.18
12	8:06	1.02	0.833	1.00	1.43	12.50	0.229	2.005	0.11
13	7:48	1.03	0.826	0.97	67.11	375.00	0.041	0.232	0.18

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
14	9:22	1.01	0.955	0.99	0.78	15.00	0.192	3.704	0.05
15	10:40	1.00	1.090	0.99	1.07	15.00	0.614	8.614	0.07
16	11:24	1.01	1.170	0.99	0.89	15.00	0.224	3.794	0.06
17	12:02	1.00	1.229	0.99	1.05	15.00	0.568	8.096	0.07
18	12:44	1.00	1.312	0.98	1.18	15.00	0.272	3.460	0.08
19	12:36	1.01	0.664	1.00	17.26	125.00	0.002	0.012	0.14
20	14:02	1.00	0.731	1.01	0.72	15.00	0.040	0.846	0.05
21	14:26	1.00	0.752	1.01	0.43	15.00	0.020	0.679	0.03
22	15:00	1.00	0.780	1.00	0.69	15.00	0.034	0.740	0.05
23	16:20	1.00	0.854	1.00	0.89	15.00	0.043	0.737	0.06
24	16:34	1.00	0.868	1.00	0.83	18.00	0.036	0.772	0.05
25	17:06	1.00	0.898	1.00	0.94	15.00	0.043	0.681	0.06
26	17:48	1.00	0.930	1.00	0.60	15.00	0.015	0.364	0.04
27	17:54	1.00	0.937	1.00	0.98	15.00	0.020	0.312	0.07
28	17:36	1.00	0.924	1.00	0.97	15.00	0.116	1.791	0.06
29	17:52	1.00	0.937	1.00	0.55	12.00	0.020	0.438	0.05
30	18:56	1.00	0.995	1.00	1.42	15.00	0.015	0.162	0.09
31	20:56	1.00	0.907	1.00	4.22	25.00	0.047	0.275	0.17
32	22:28	1.00	0.974	1.00	3.64	25.00	0.030	0.209	0.15
33	22:48	1.00	0.990	1.00	0.63	15.00	0.032	0.757	0.04
34	22:48	1.00	0.988	1.00	0.82	15.00	0.023	0.411	0.05
35	24:04	1.00	1.046	1.00	0.88	15.00	0.100	1.703	0.06
36	25:14	1.00	1.097	1.00	0.79	15.00	0.101	1.929	0.05
37	27:16	1.00	1.186	1.00	0.87	15.00	0.053	0.908	0.06
38	31:24	1.01	1.367	1.00	1.53	12.50	0.217	1.772	0.12
39	31:42	1.01	1.378	1.00	2.18	30.00	0.077	1.055	0.07
40	32:44	1.00	1.425	1.00	2.83	37.60	0.076	1.009	0.08
41	23:02	1.00	1.000	1.00	10.00	10.00	1.000	1.000	1.00

MASS SPECTRUM
08/31/89 21:53:00 + 1:38
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #49
CALI: MDL0831 #3

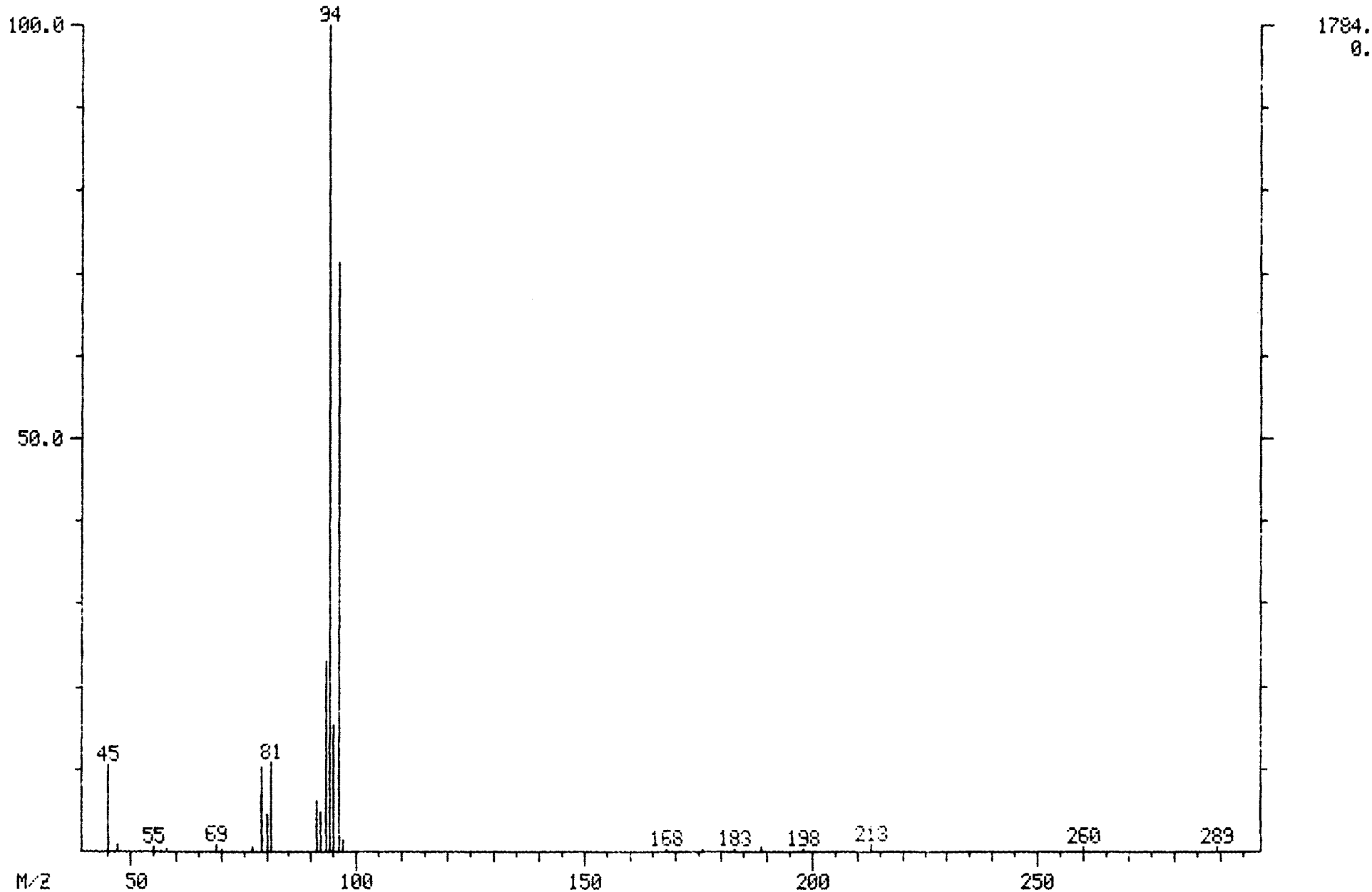
BASE M/Z: 50
RIC: 4688.



MASS SPECTRUM
08/31/89 21:53:00 + 2:40
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 45 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #80
CALI: MDL0831 #3

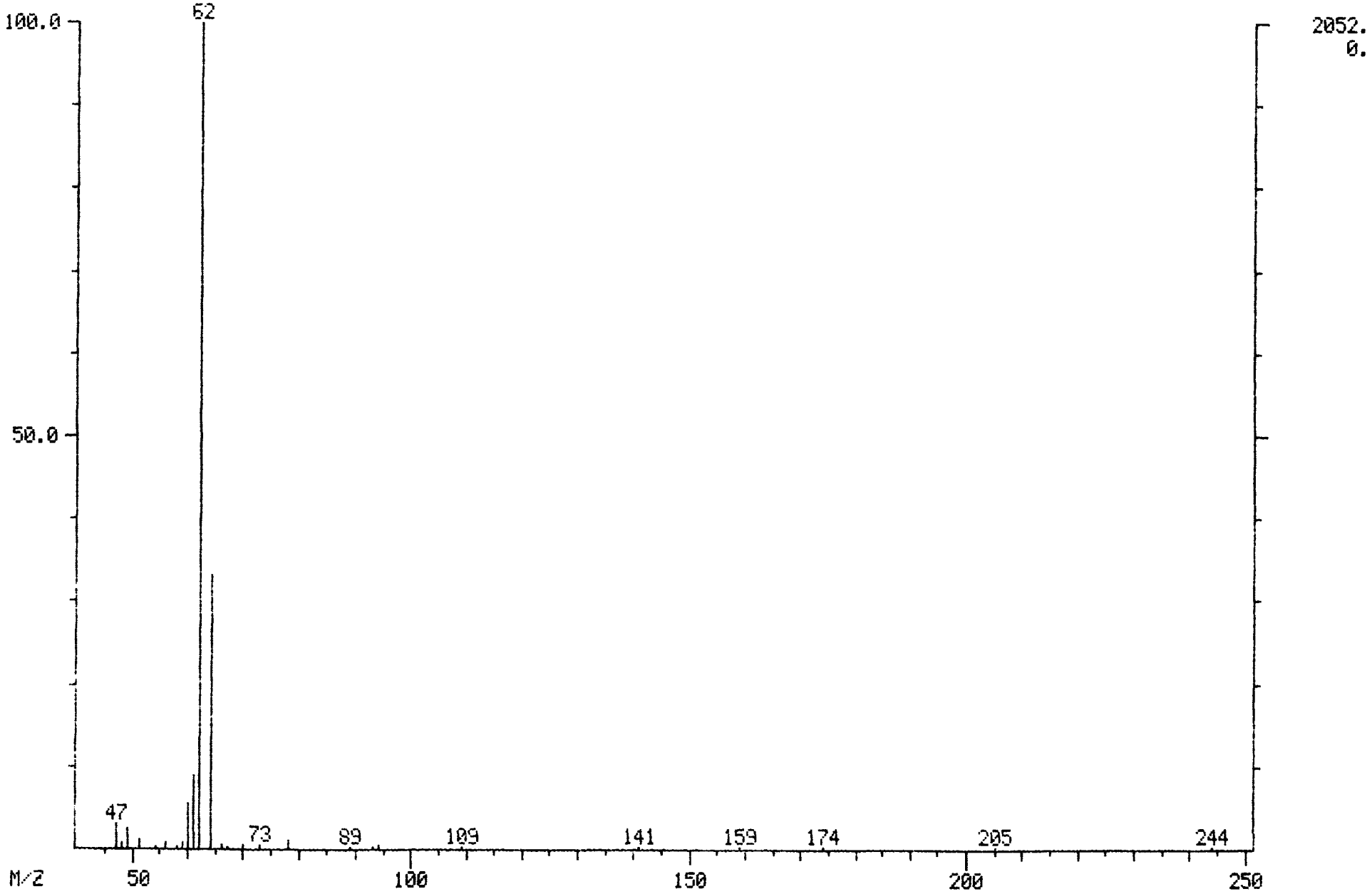
BASE M/Z: 94
RIC: 4728.



MASS SPECTRUM
08/31/89 21:53:00 + 3:24
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 47 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #102
CALI: MDL0831 #3

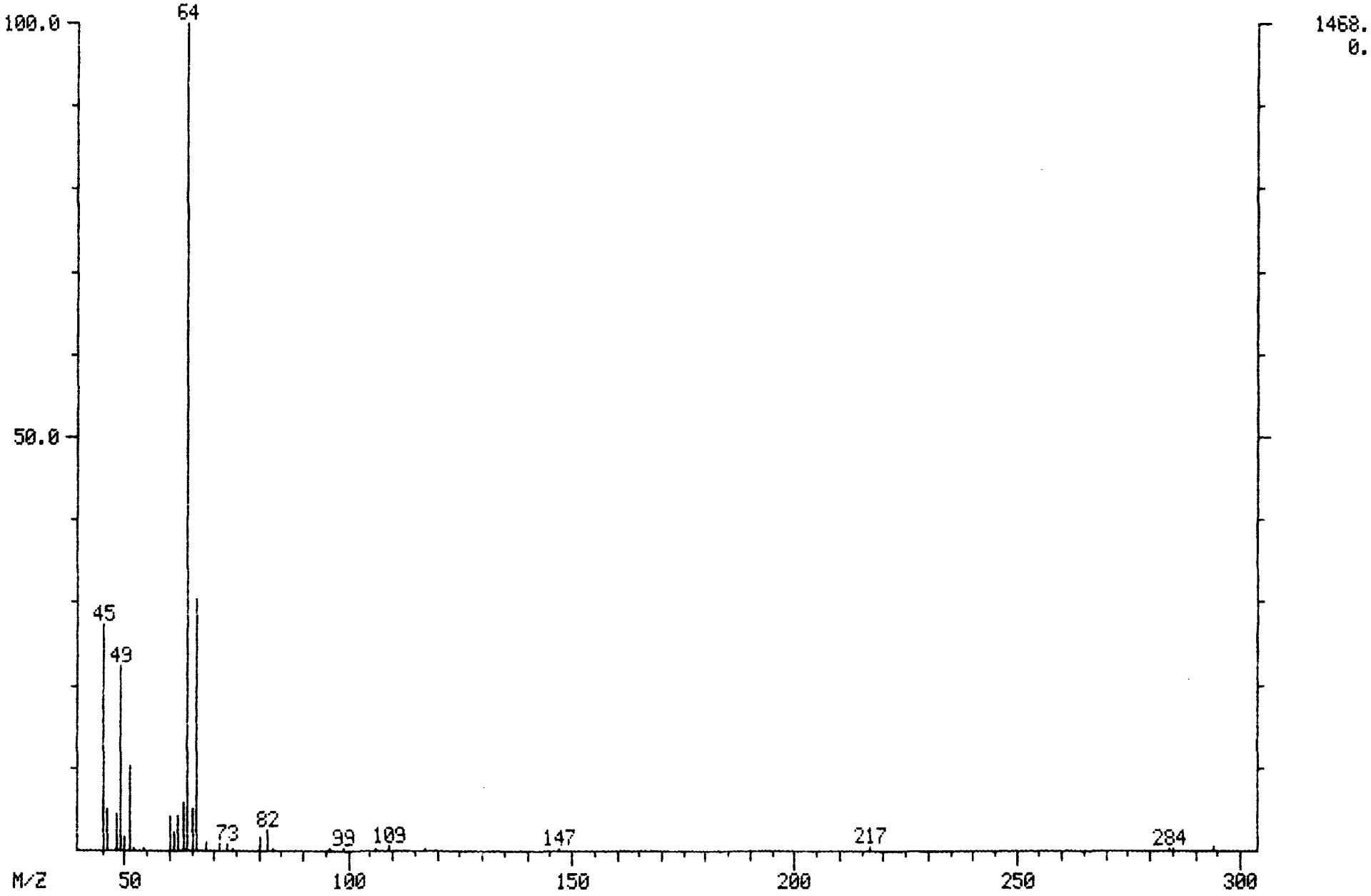
BASE M/Z: 62
RIC: 3364.



MASS SPECTRUM
08/31/89 21:53:00 + 4:26
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 55 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #133
CALI: MDL0831 #3

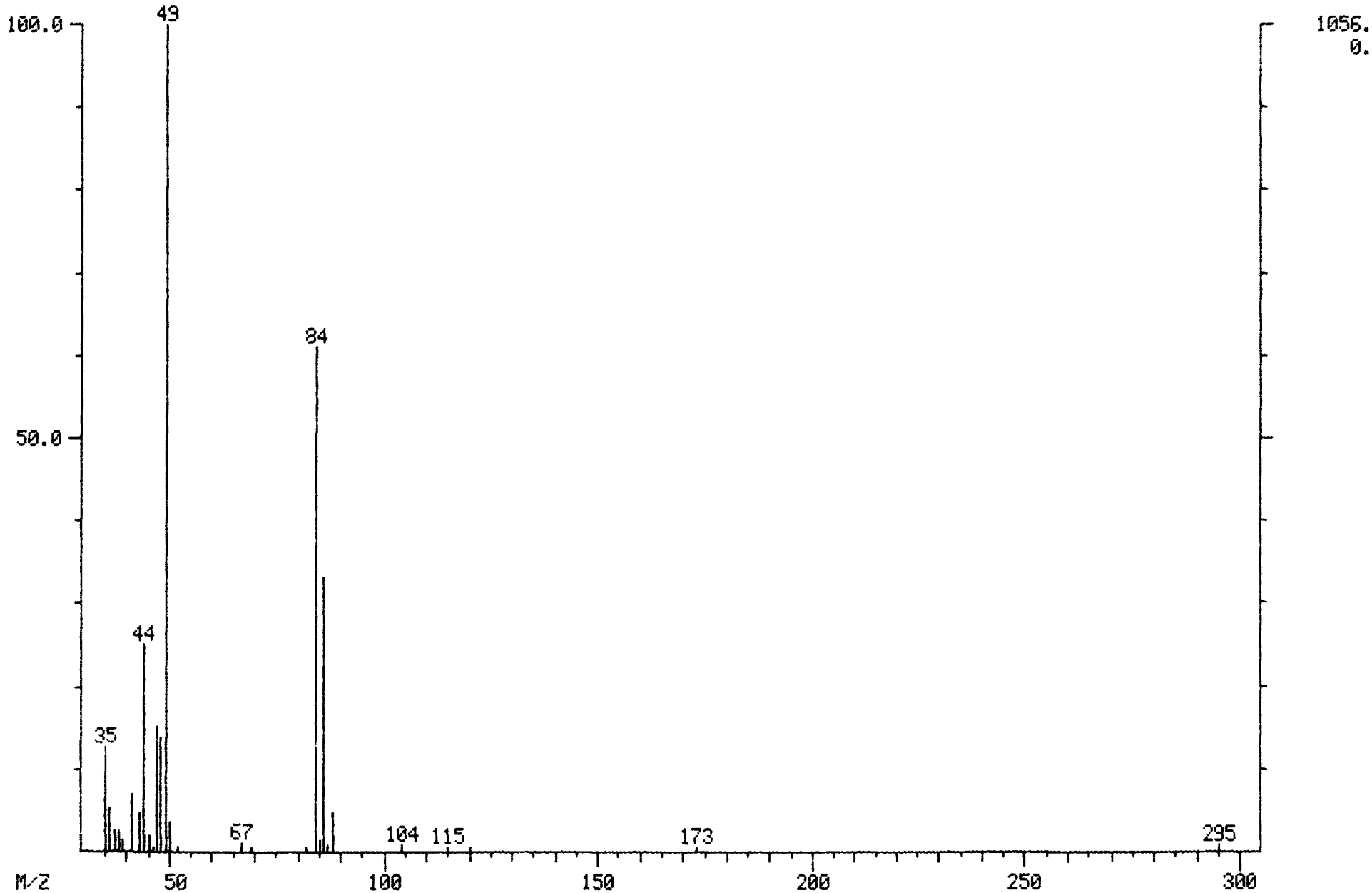
BASE M/Z: 64
RIC: 3468.



MASS SPECTRUM
08/31/89 21:53:00 + 6:36
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 73 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #198
CALI: MDL0831 #3

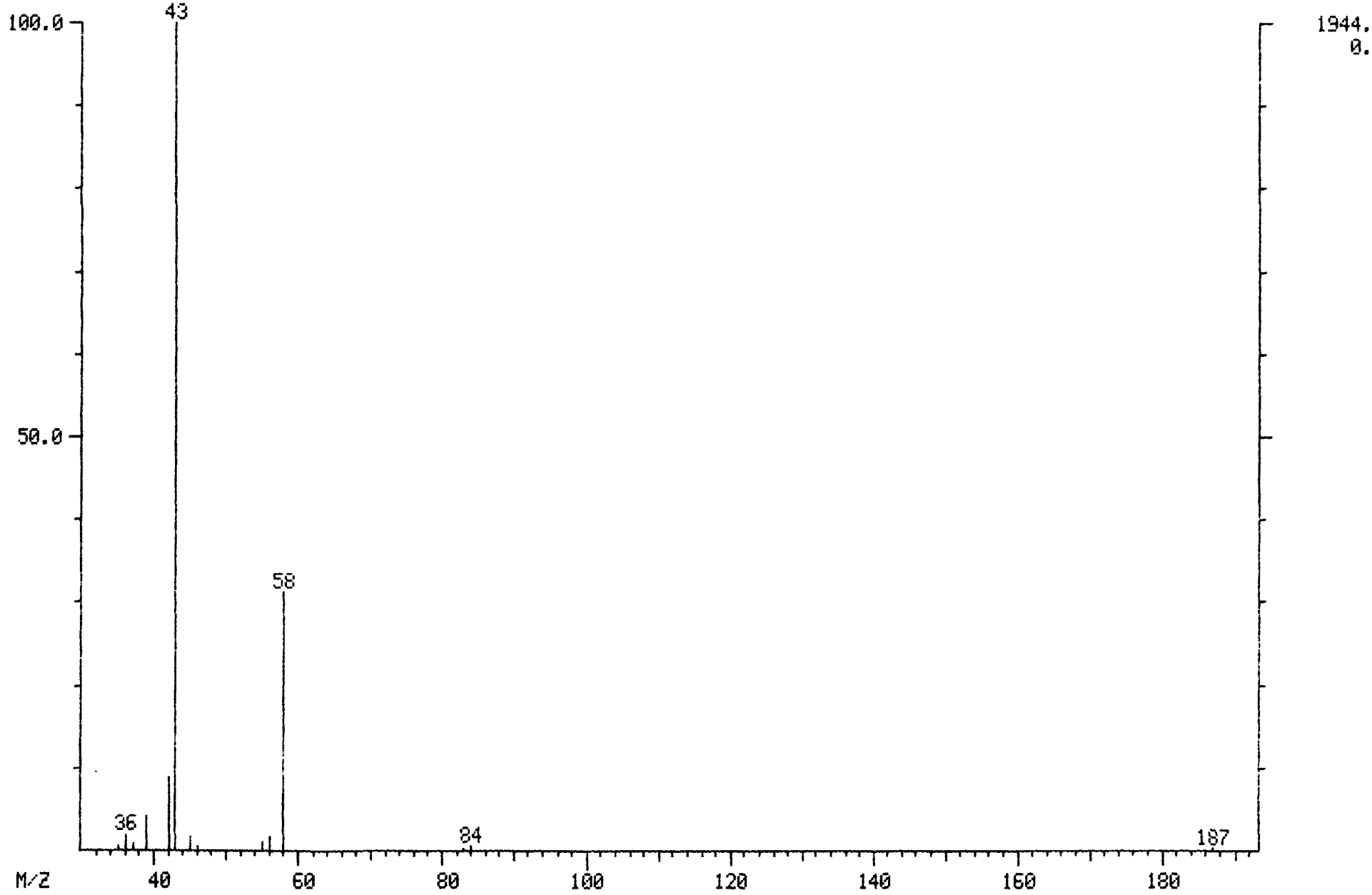
BASE M/Z: 49
RIC: 3208.



MASS SPECTRUM
08/31/89 21:53:00 + 7:16
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 78 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #218
CALI: MDL0831 #3

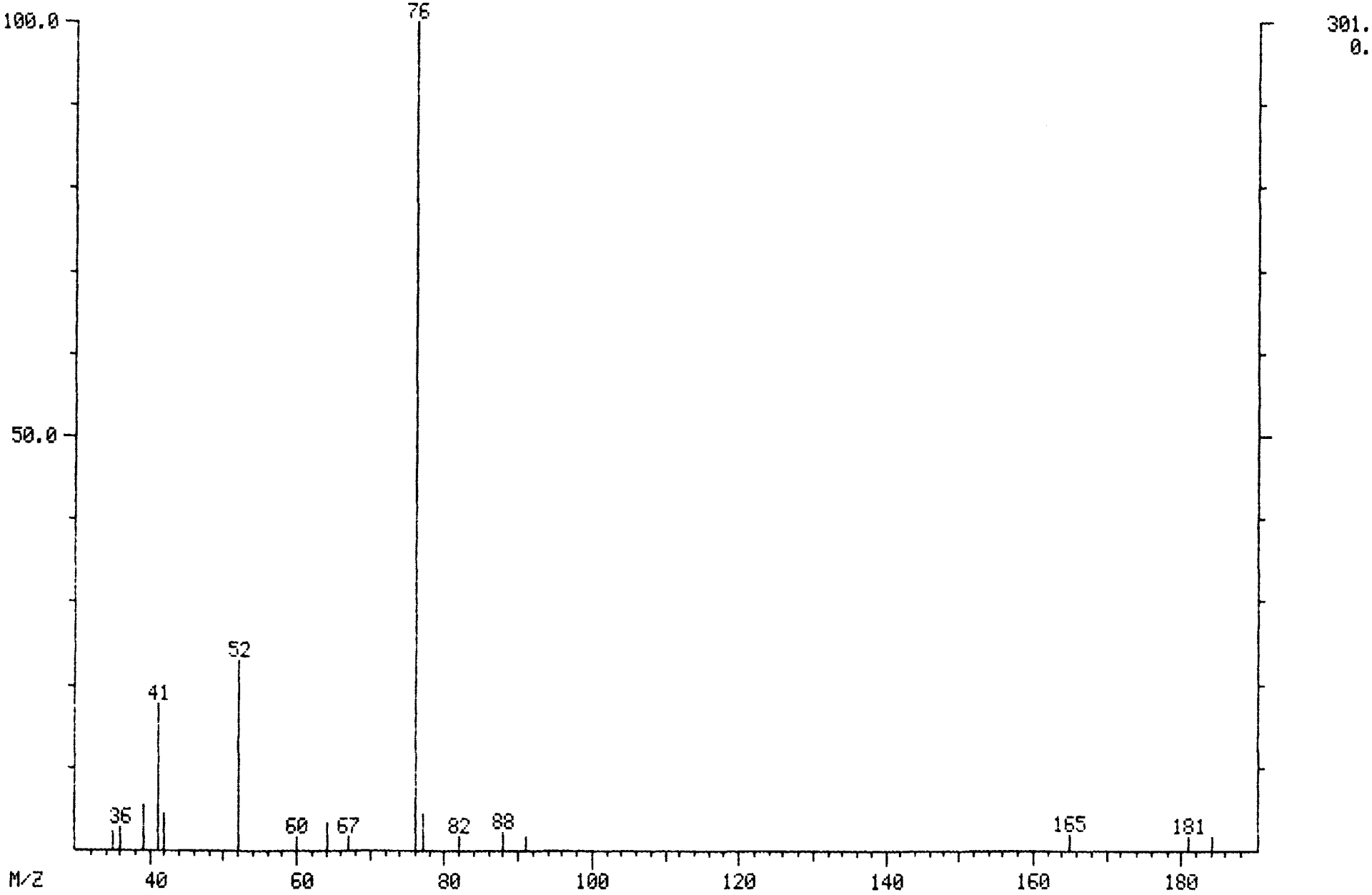
BASE M/Z: 43
RIC: 2980.



MASS SPECTRUM
08/31/89 21:53:00 + 8:16
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 86 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #248
CALI: MDL0831 #3

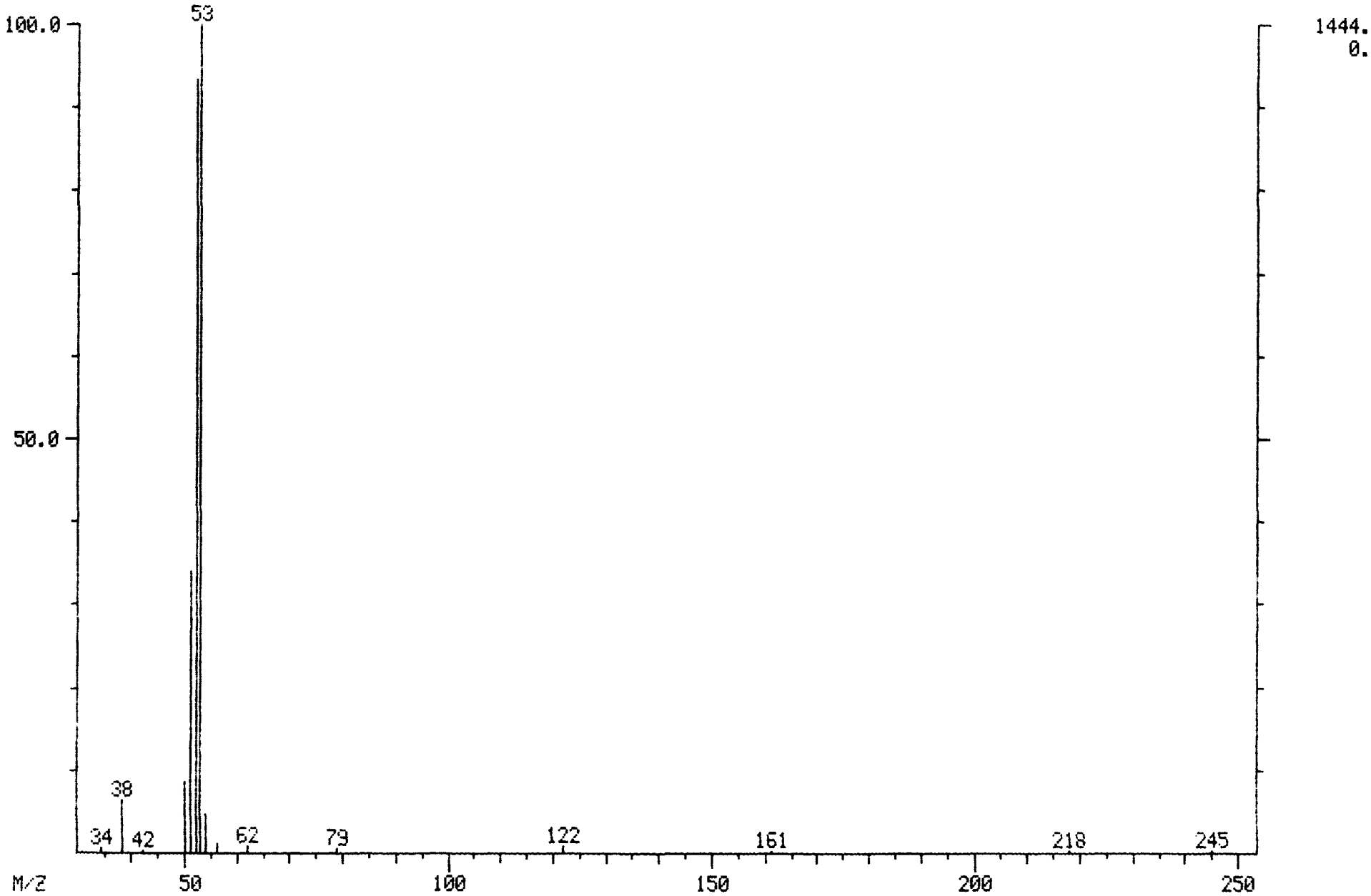
BASE M/Z: 76
RIC: 534.



MASS SPECTRUM
08/31/89 21:53:00 + 8:00
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #240
CALI: MDL0831 #3

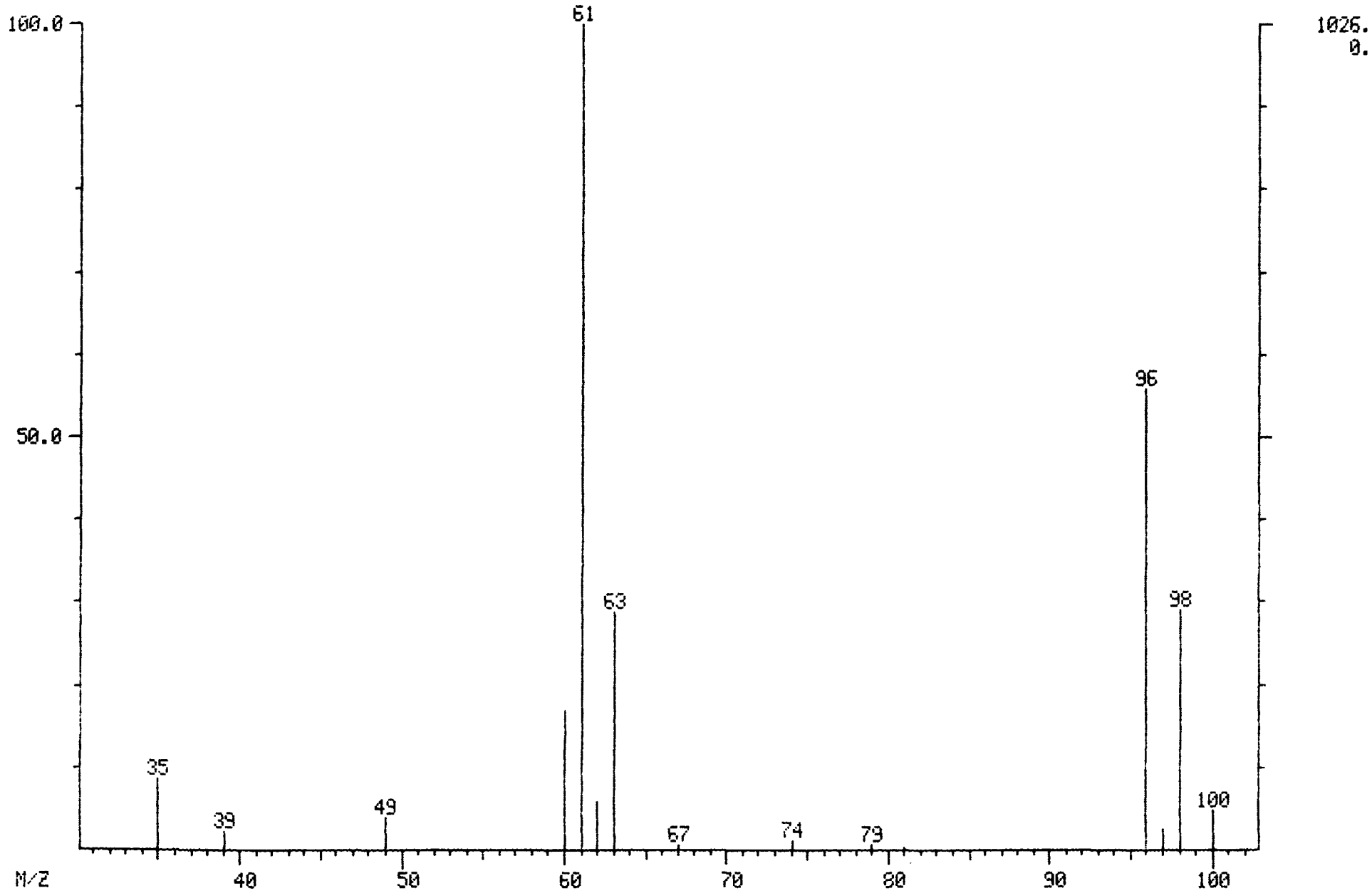
BASE M/Z: 53
RIC: 3640.



MASS SPECTRUM
08/31/89 21:53:00 + 9:26
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #283
CALI: MDL0831 #3

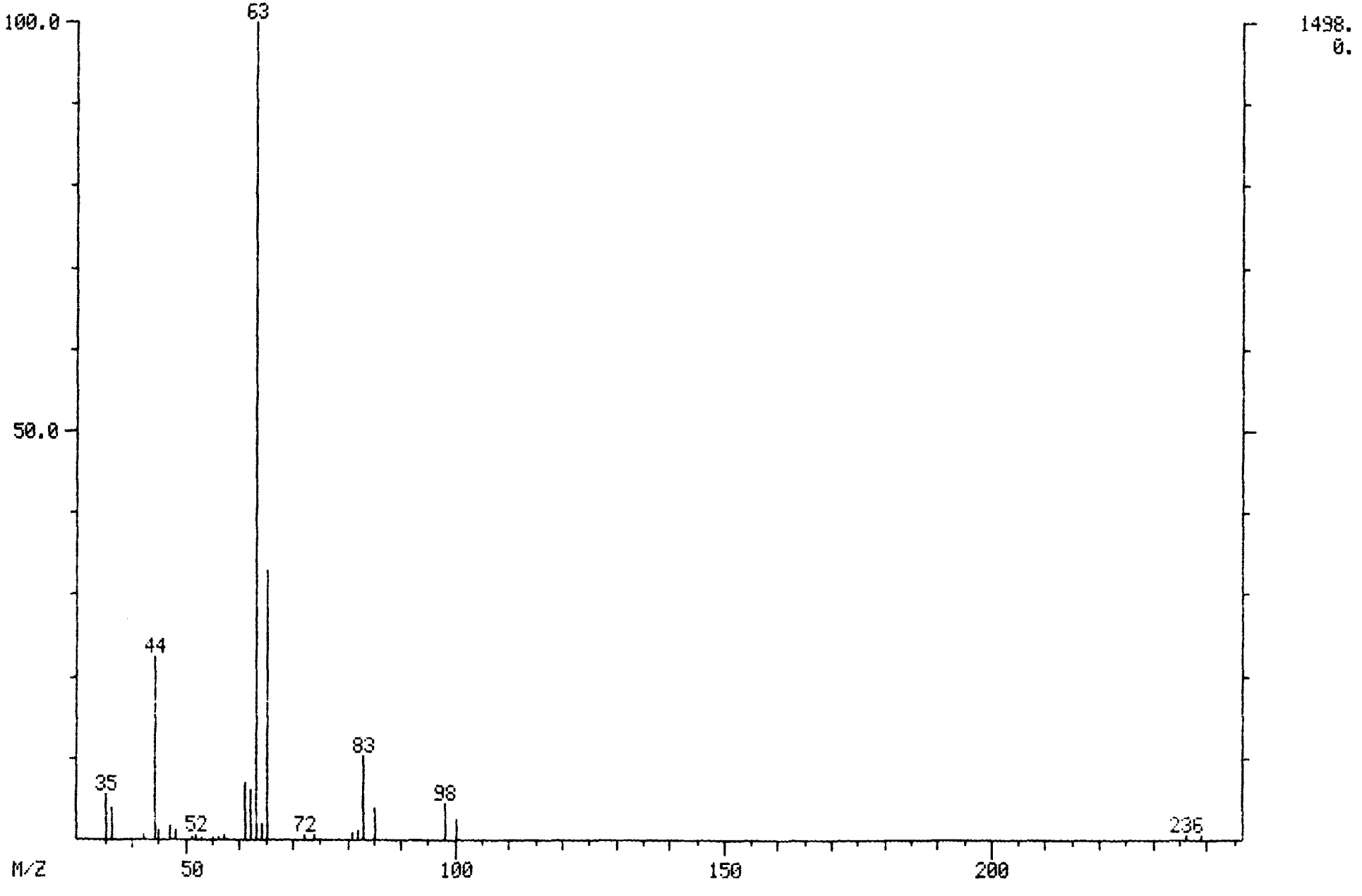
BASE M/Z: 61
RIC: 2680.



MASS SPECTRUM
08/31/89 21:53:00 + 10:42
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 106 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #321
CALI: MDL0831 #3

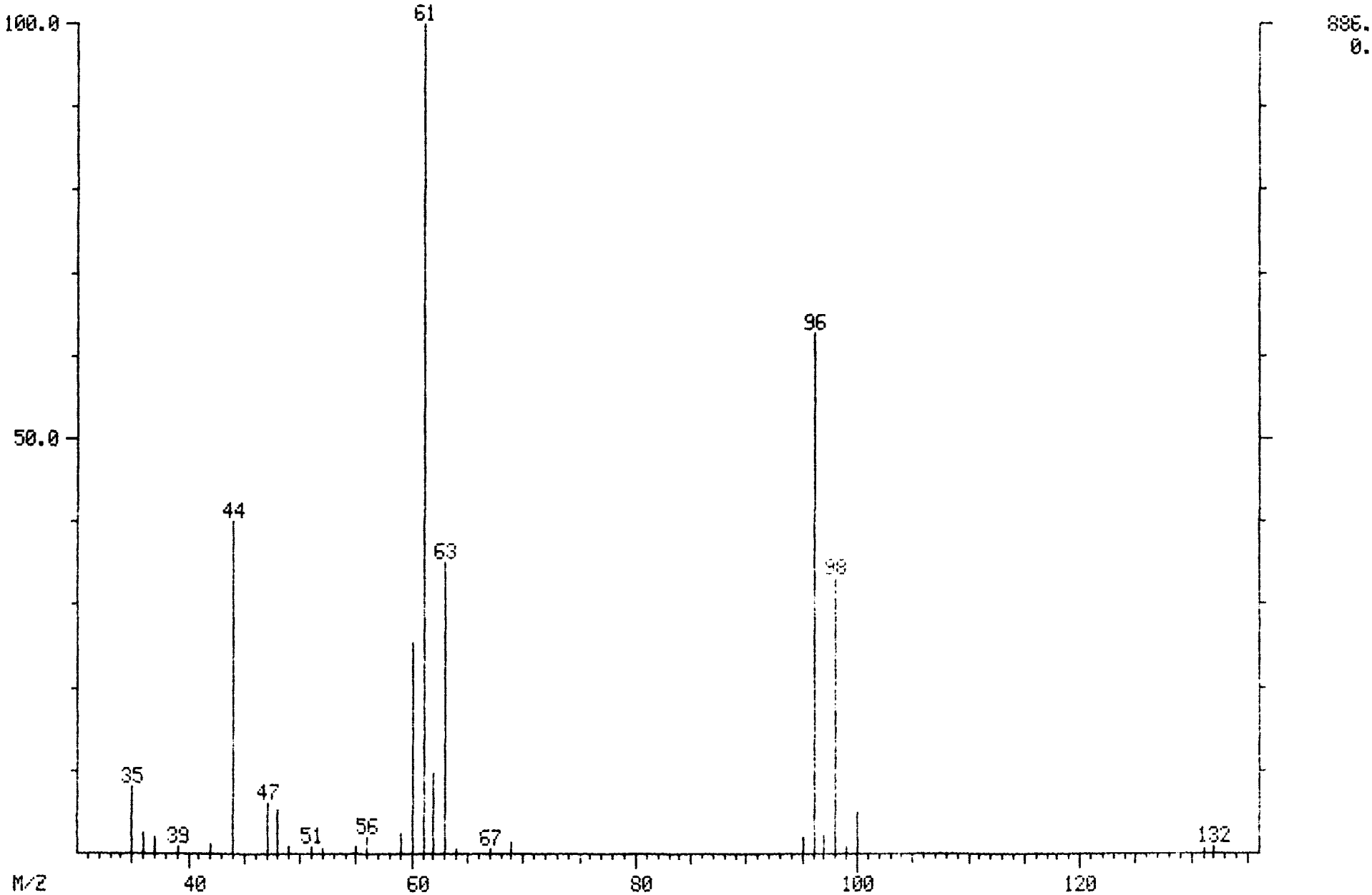
BASE M/Z: 63
RIC: 3192.



MASS SPECTRUM
08/31/89 21:53:00 + 11:30
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 112 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #345
CALI: MDL0831 #3

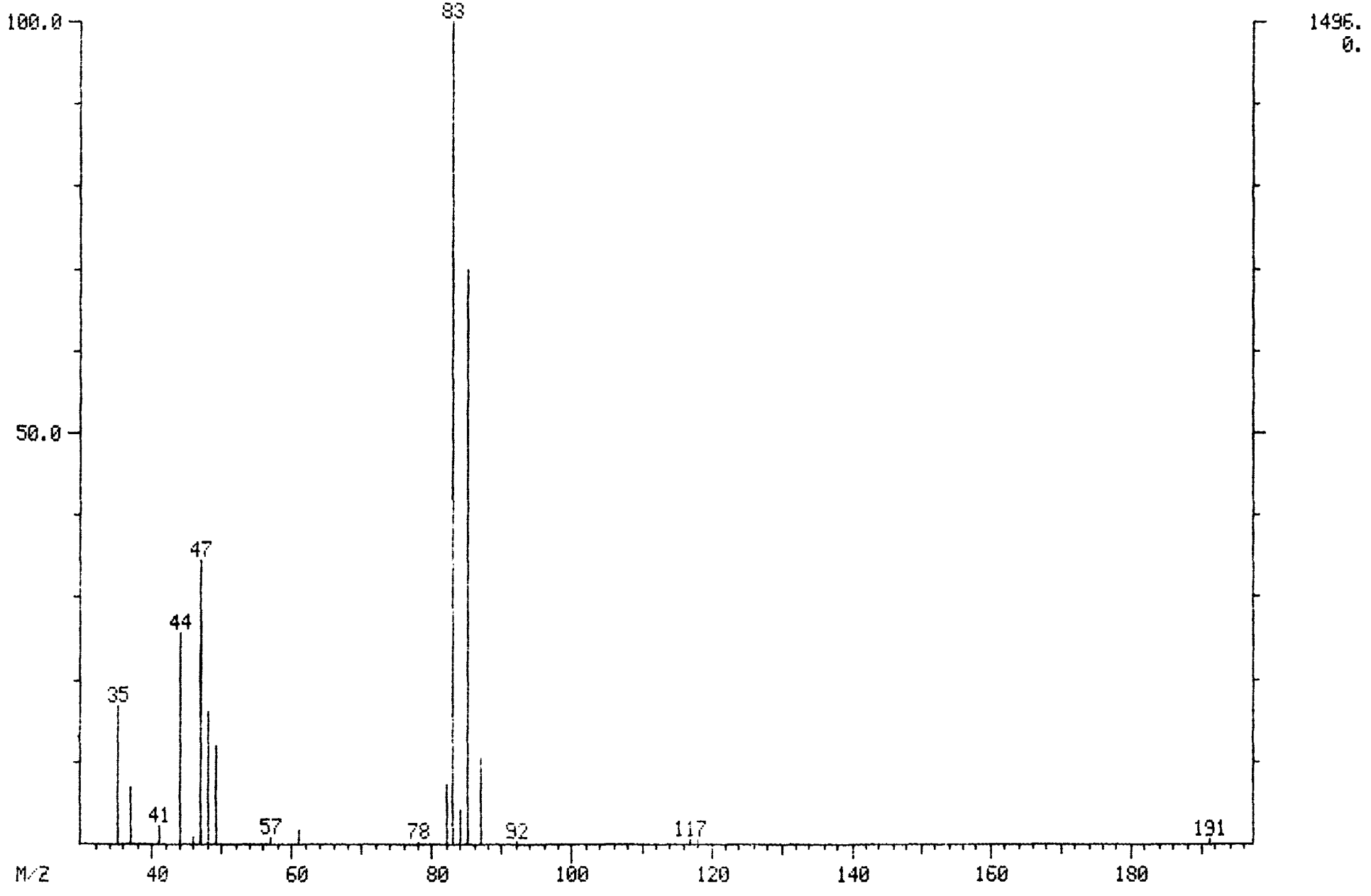
BASE M/Z: 61
RIC: 3148.



MASS SPECTRUM
08/31/89 21:53:00 + 12:02
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 116 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #361
CALI: MDL0831 #3

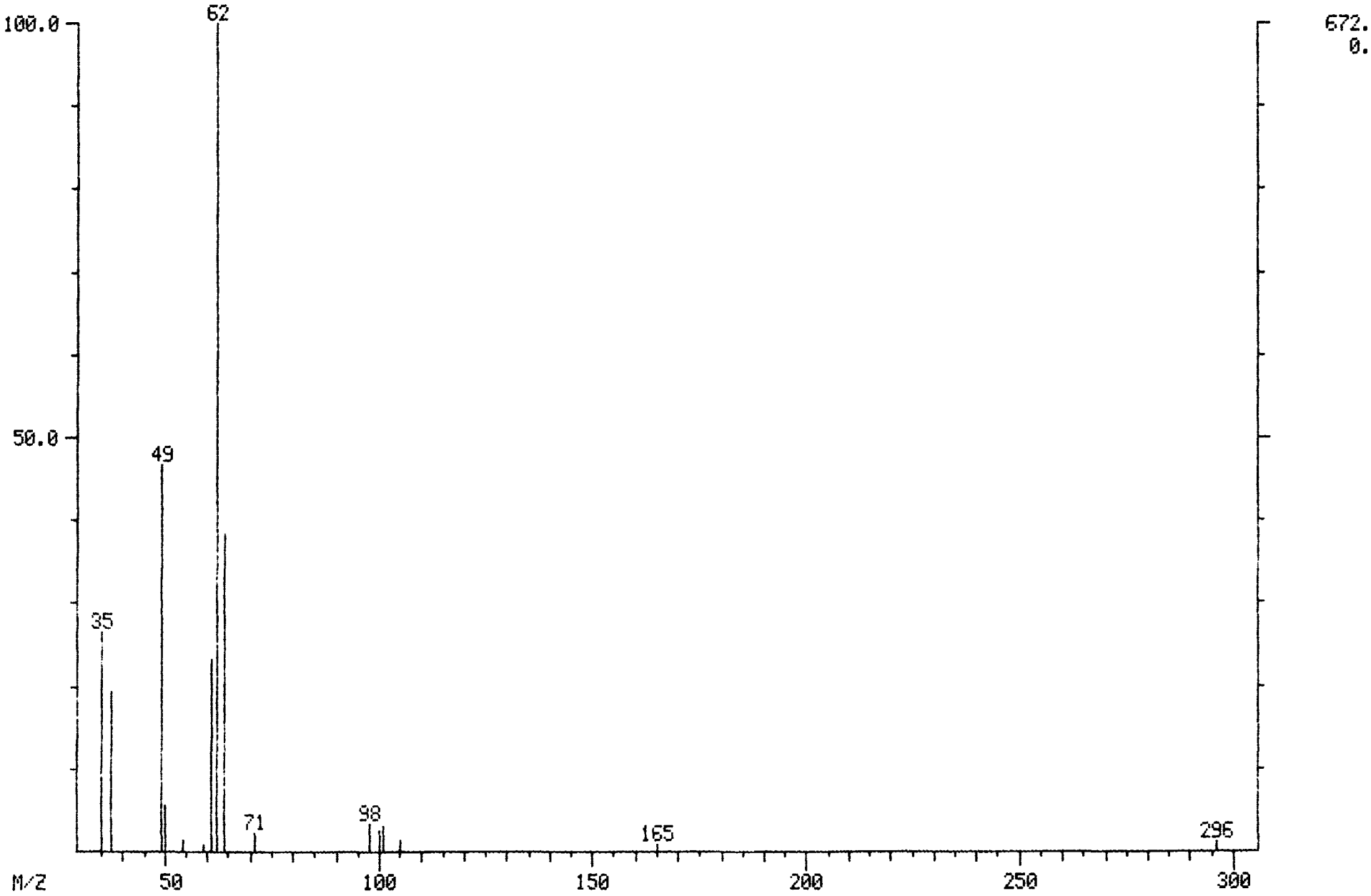
BASE M/Z: 83
RIC: 4680.



MASS SPECTRUM
08/31/89 21:53:00 + 12:46
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 122 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #383
CALI: MDL0831 #3

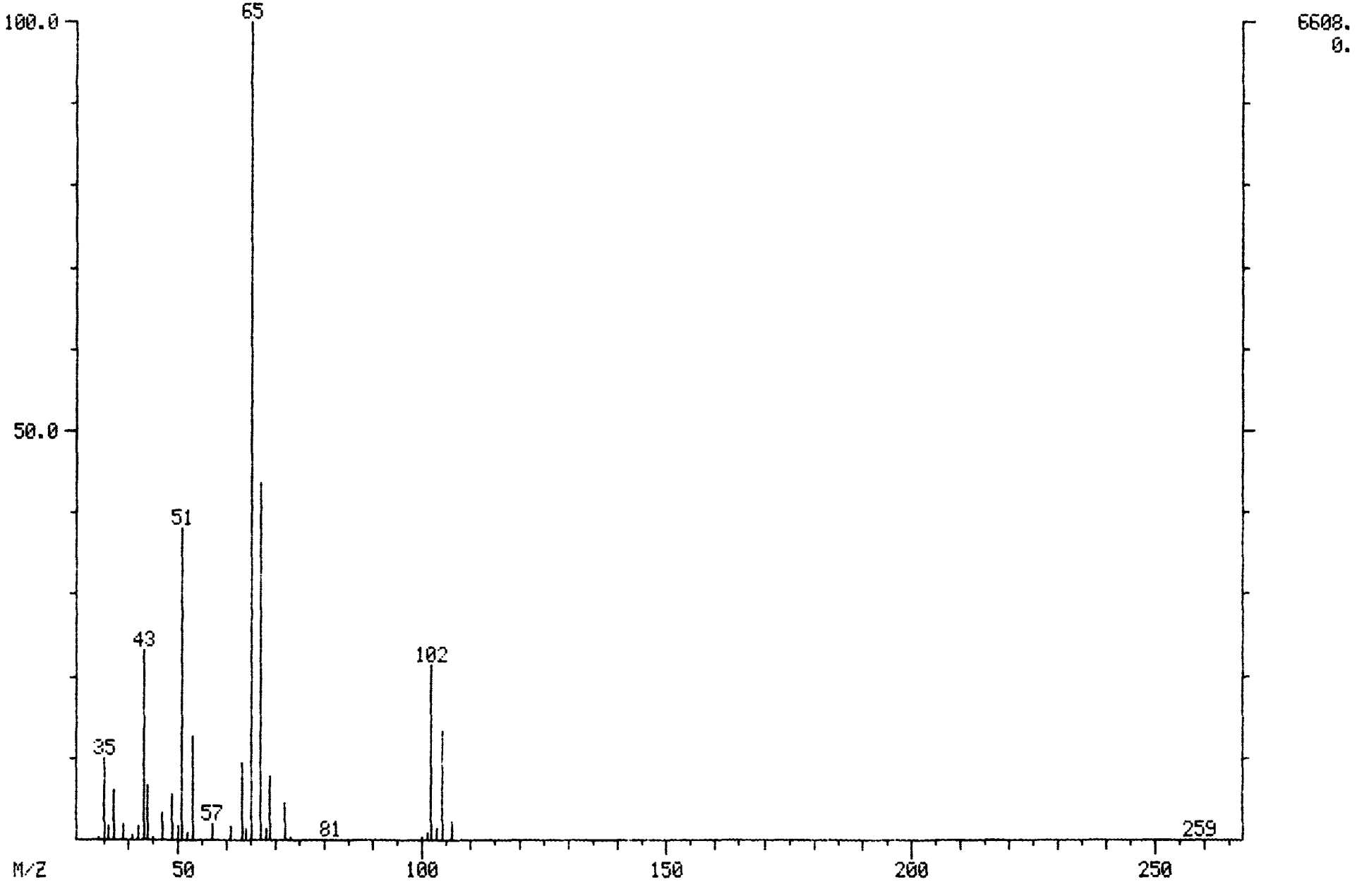
BASE M/Z: 62
RIC: 1860.



MASS SPECTRUM
08/31/89 21:53:00 + 12:40
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 121 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #380
CALI: MDL0831 #3

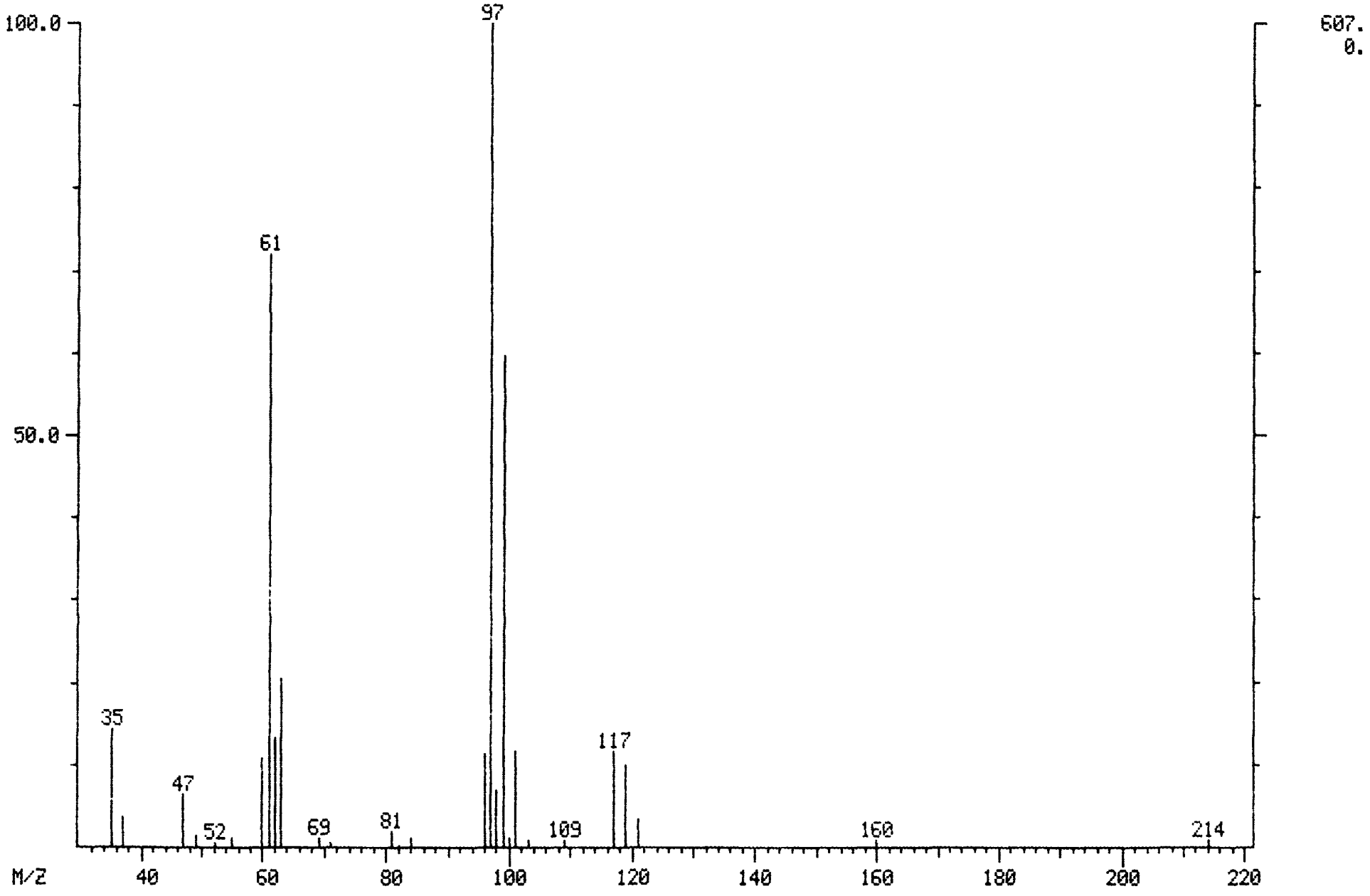
BASE M/Z: 65
RIC: 21536.



MASS SPECTRUM
08/31/89 21:53:00 + 14:06
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 133 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #423
CALI: MDL0831 #3

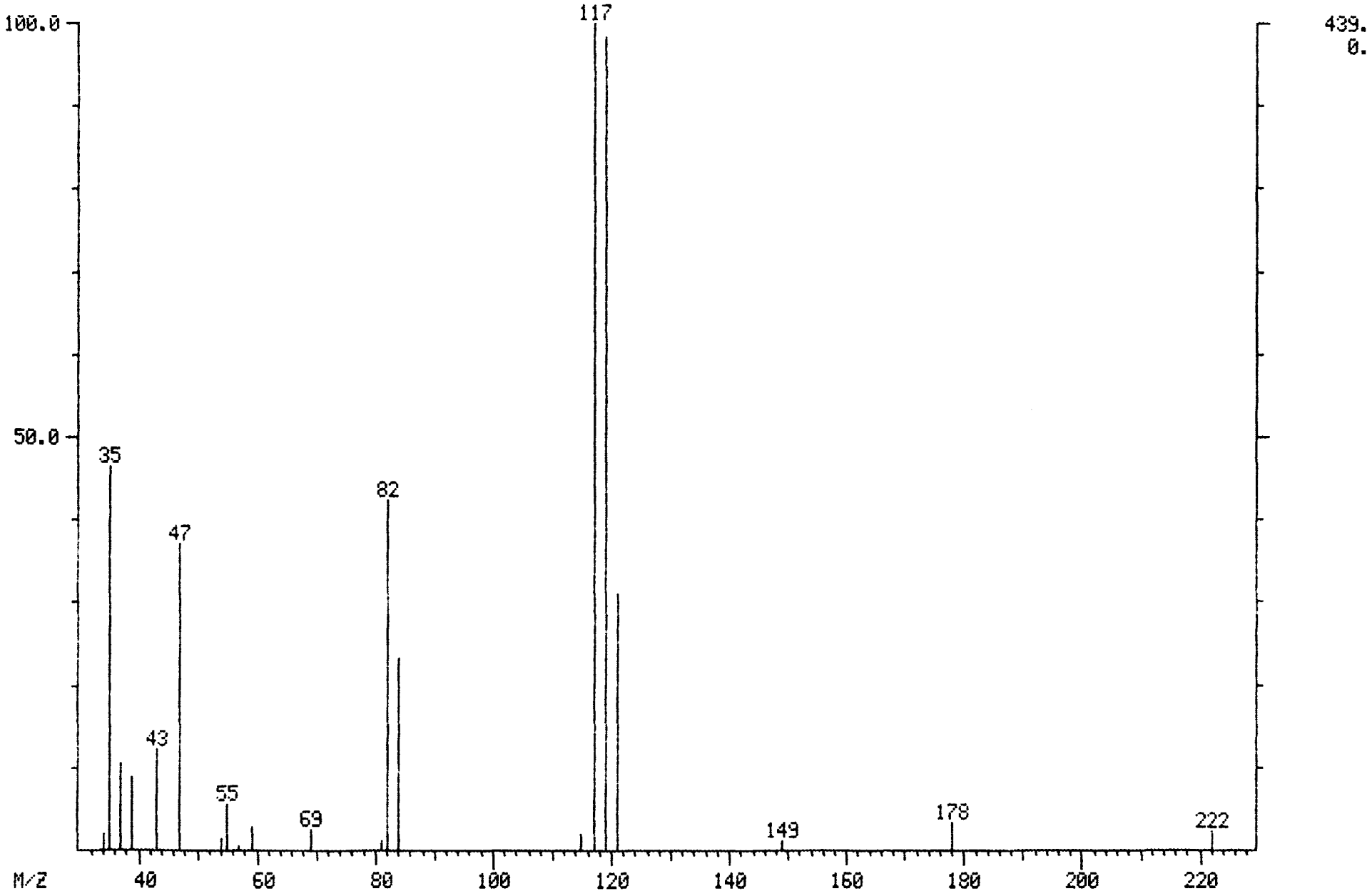
BASE M/Z: 97
RIC: 2228.



MASS SPECTRUM
08/31/89 21:53:00 + 14:28
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 136 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #434
CALI: MDL0831 #3

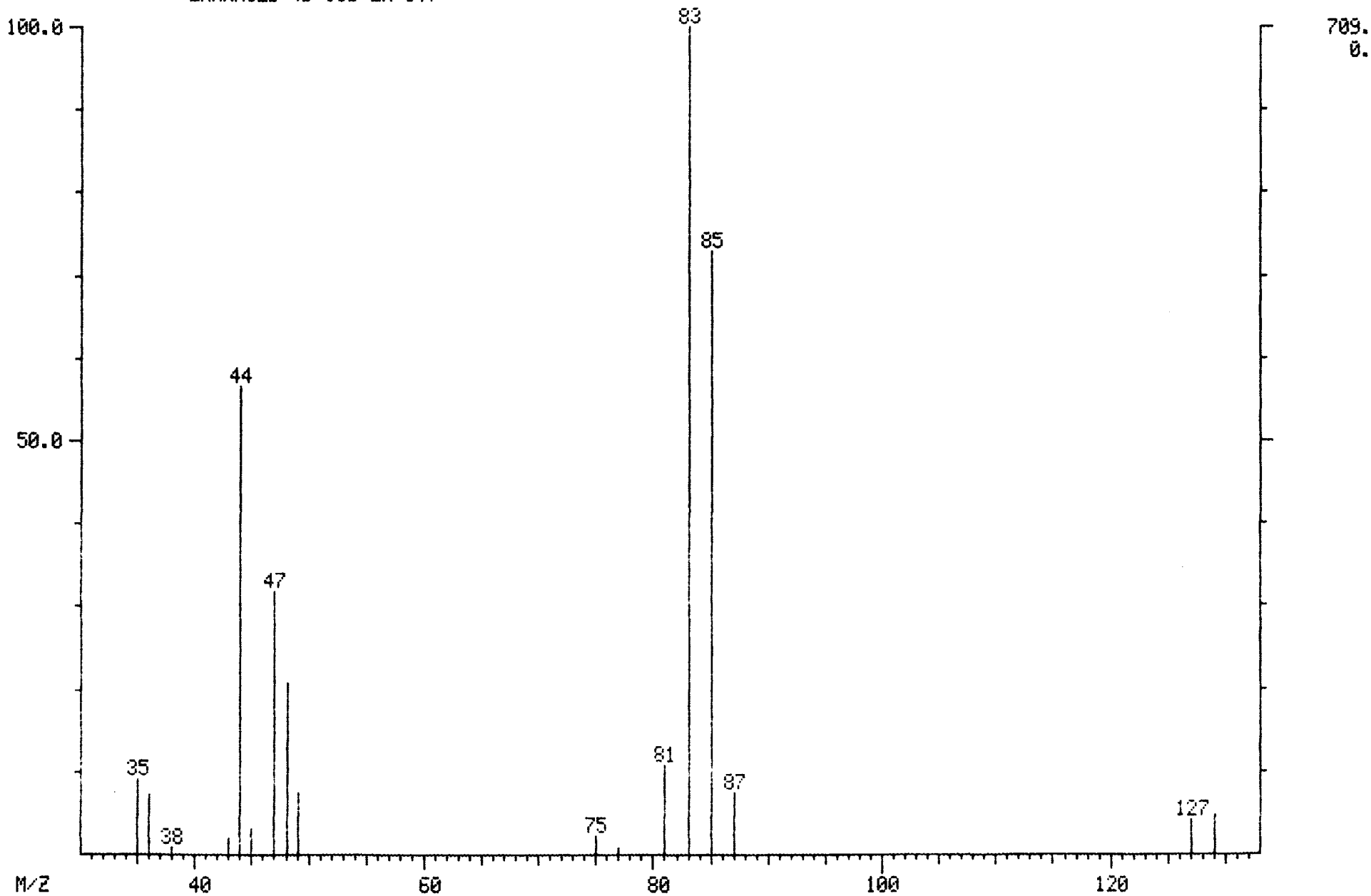
BASE M/Z: 117
RIC: 1906.



MASS SPECTRUM
08/31/89 21:53:00 + 14:58
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 140 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #449
CALI: MDL0831 #3

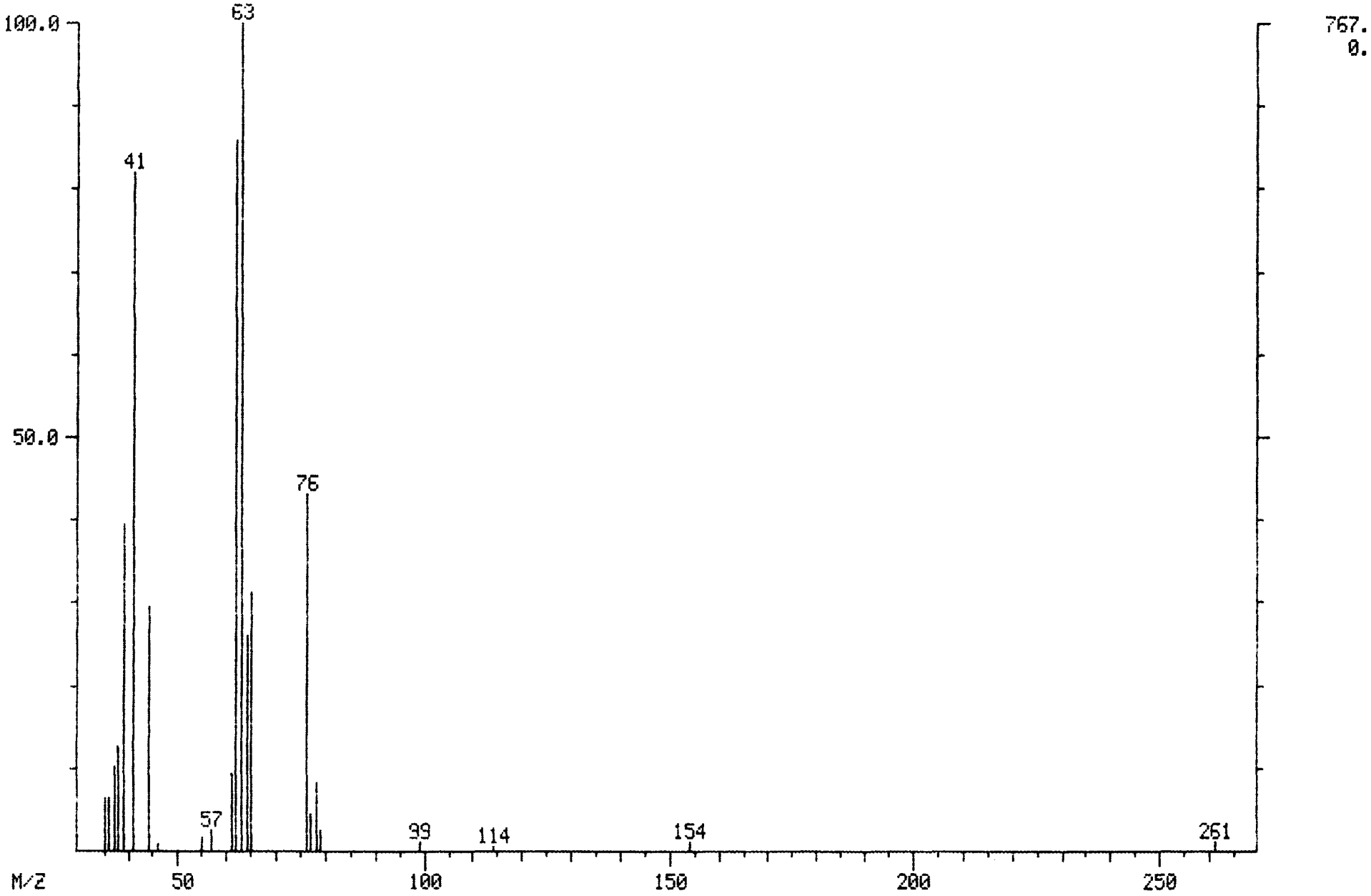
BASE M/Z: 83
RIC: 2424.



MASS SPECTRUM
08/31/89 21:53:00 + 16:22
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 151 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #491
CALI: MDL0831 #3

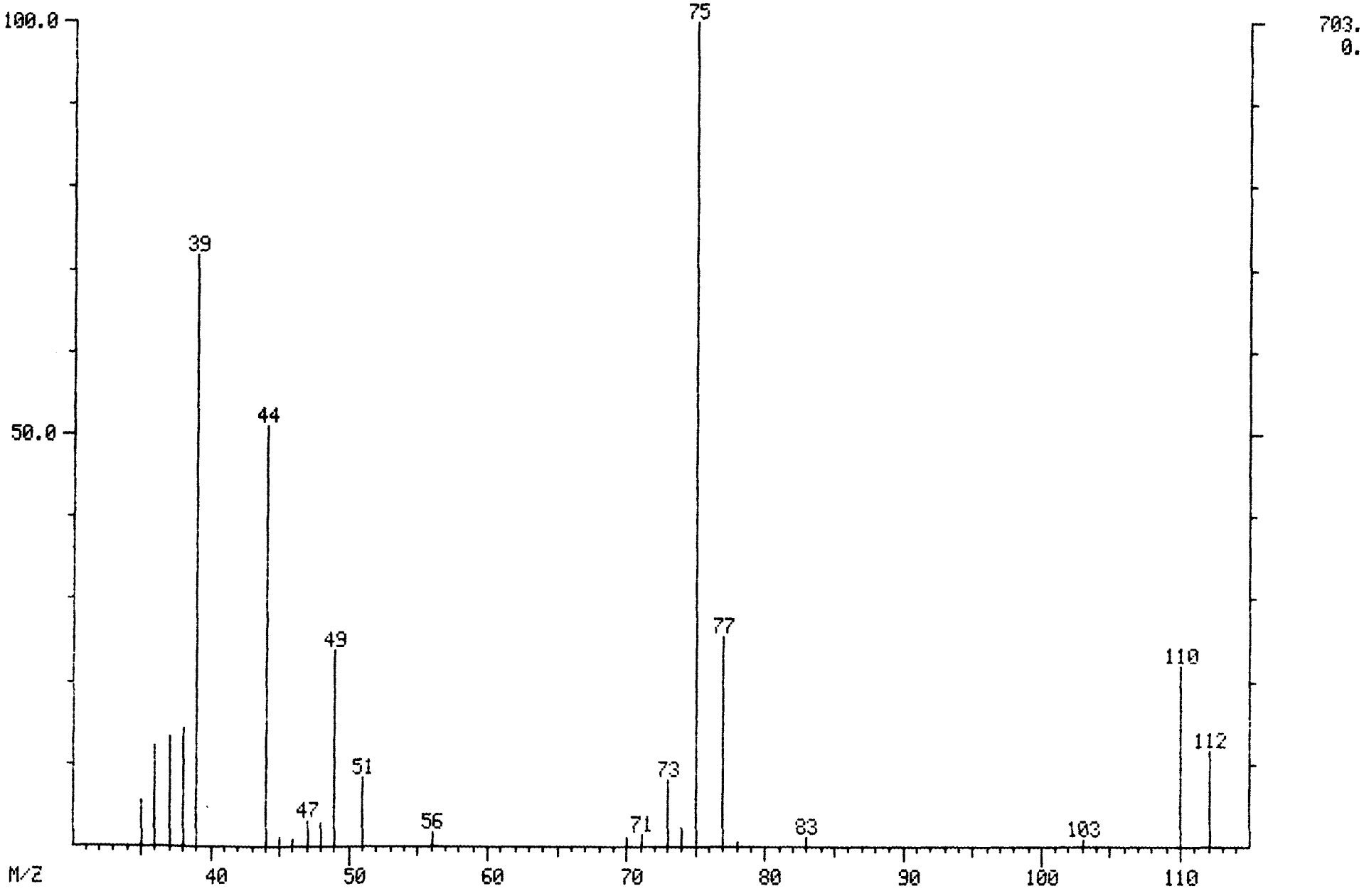
BASE M/Z: 63
RIC: 3892.



MASS SPECTRUM
08/31/89 21:53:00 + 16:36
SAMPLE: CLP,0831,,MDL0831,L,W,,U,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 153 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #498
CALI: MDL0831 #3

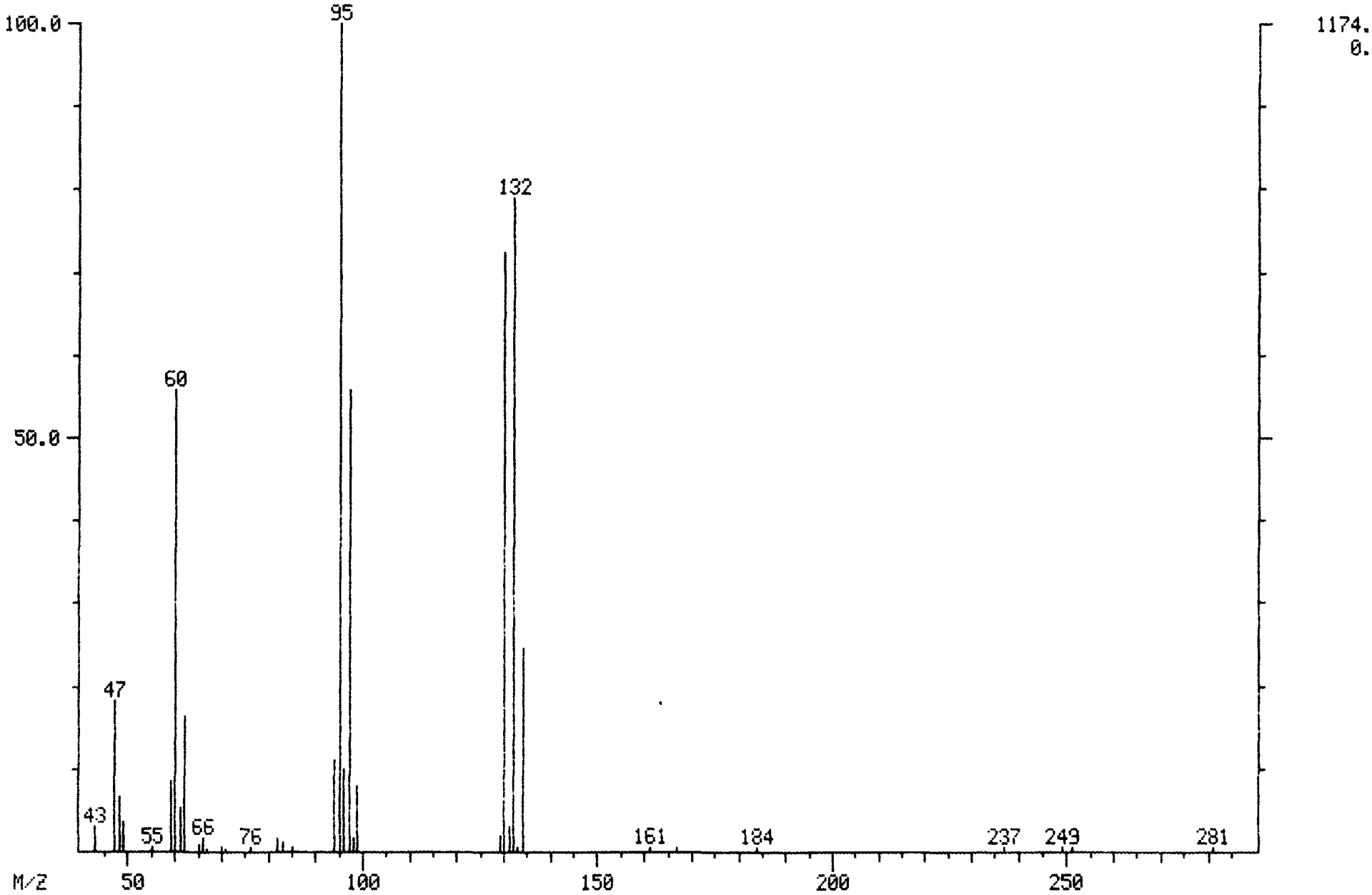
BASE M/Z: 75
RIC: 2704.



MASS SPECTRUM
08/31/89 21:53:00 + 17:10
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 157 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #515
CALI: MDL0831 #3

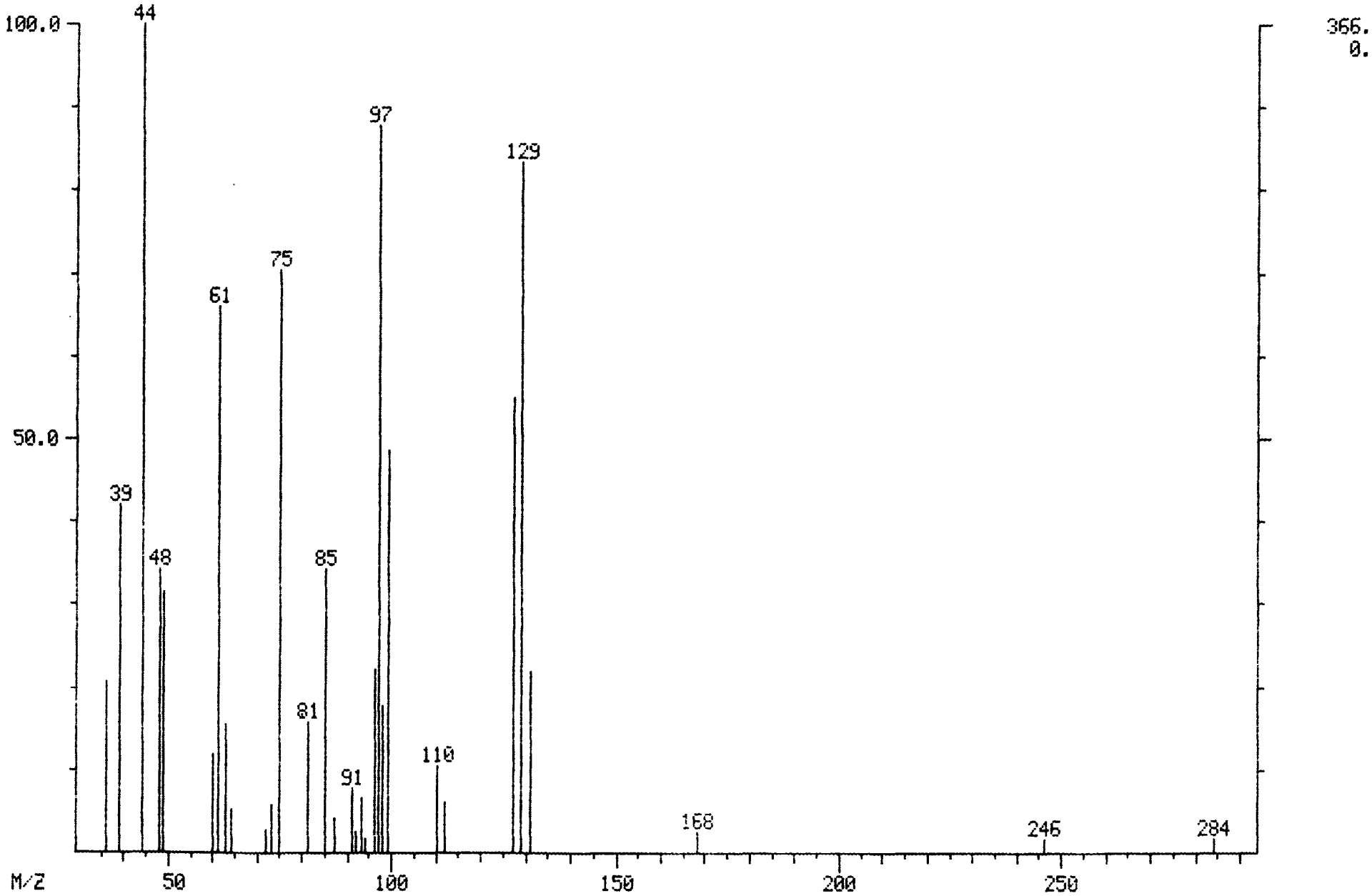
BASE M/Z: 95
RIC: 5856.



MASS SPECTRUM
08/31/89 21:53:00 + 17:50
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 163 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #535
CALI: MDL0831 #3

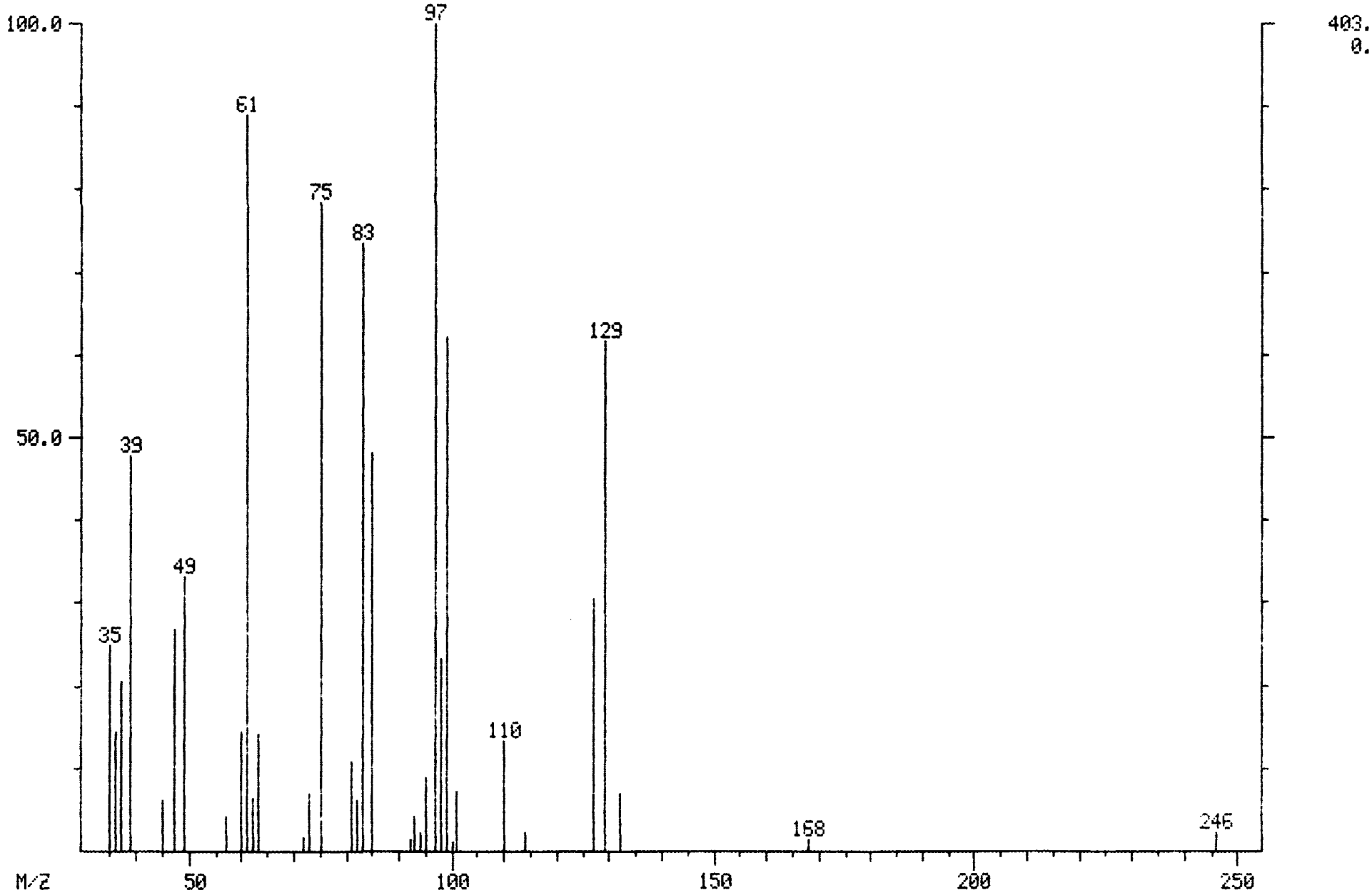
BASE M/Z: 44
RIC: 3080.



MASS SPECTRUM
08/31/89 21:53:00 + 17:52
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 163 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #536
CALI: MDL0831 #3

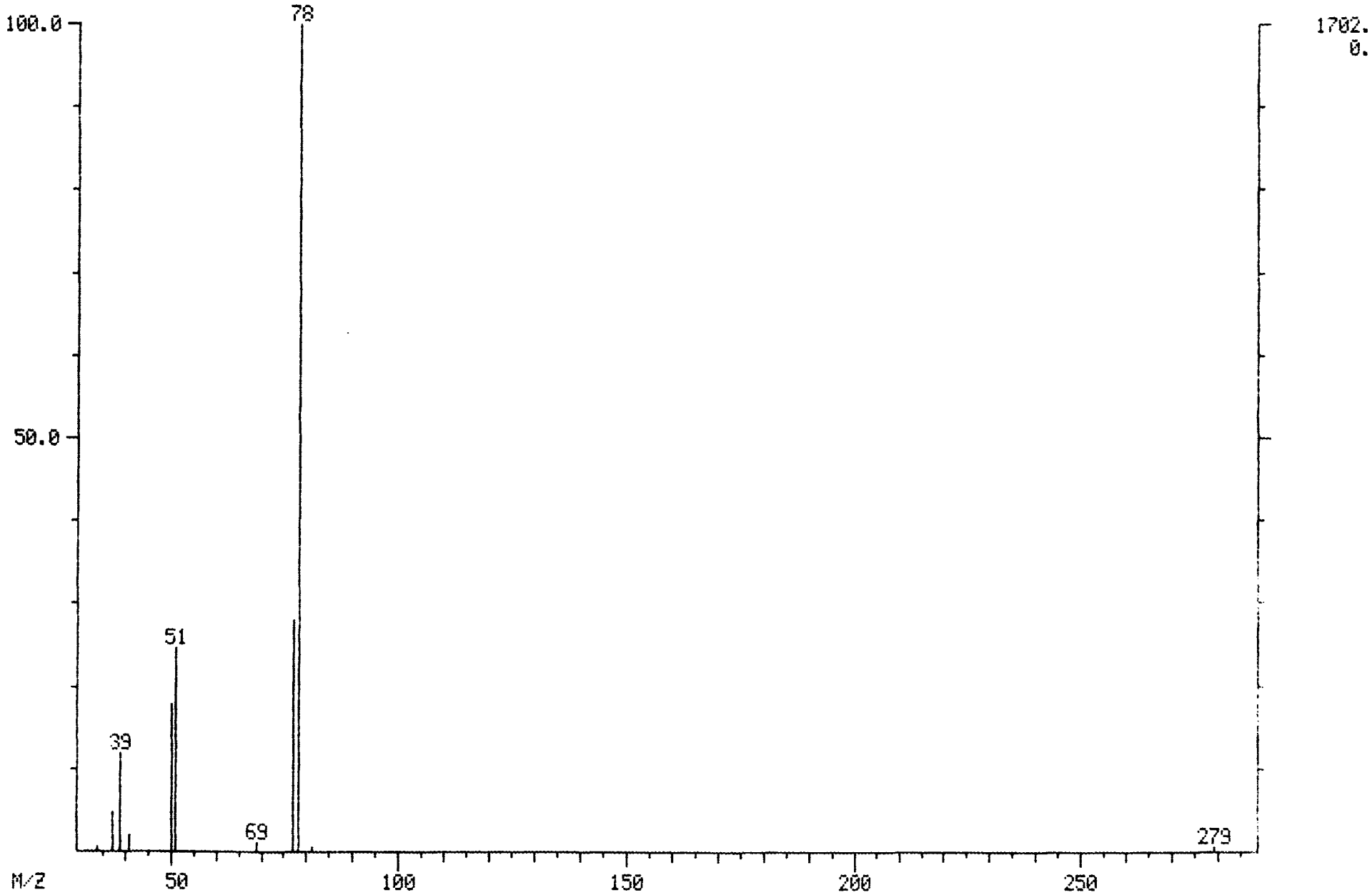
BASE M/Z: 97
RIC: 3460.



MASS SPECTRUM
08/31/89 21:53:00 + 17:40
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 161 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #530
CALI: MDL0831 #3

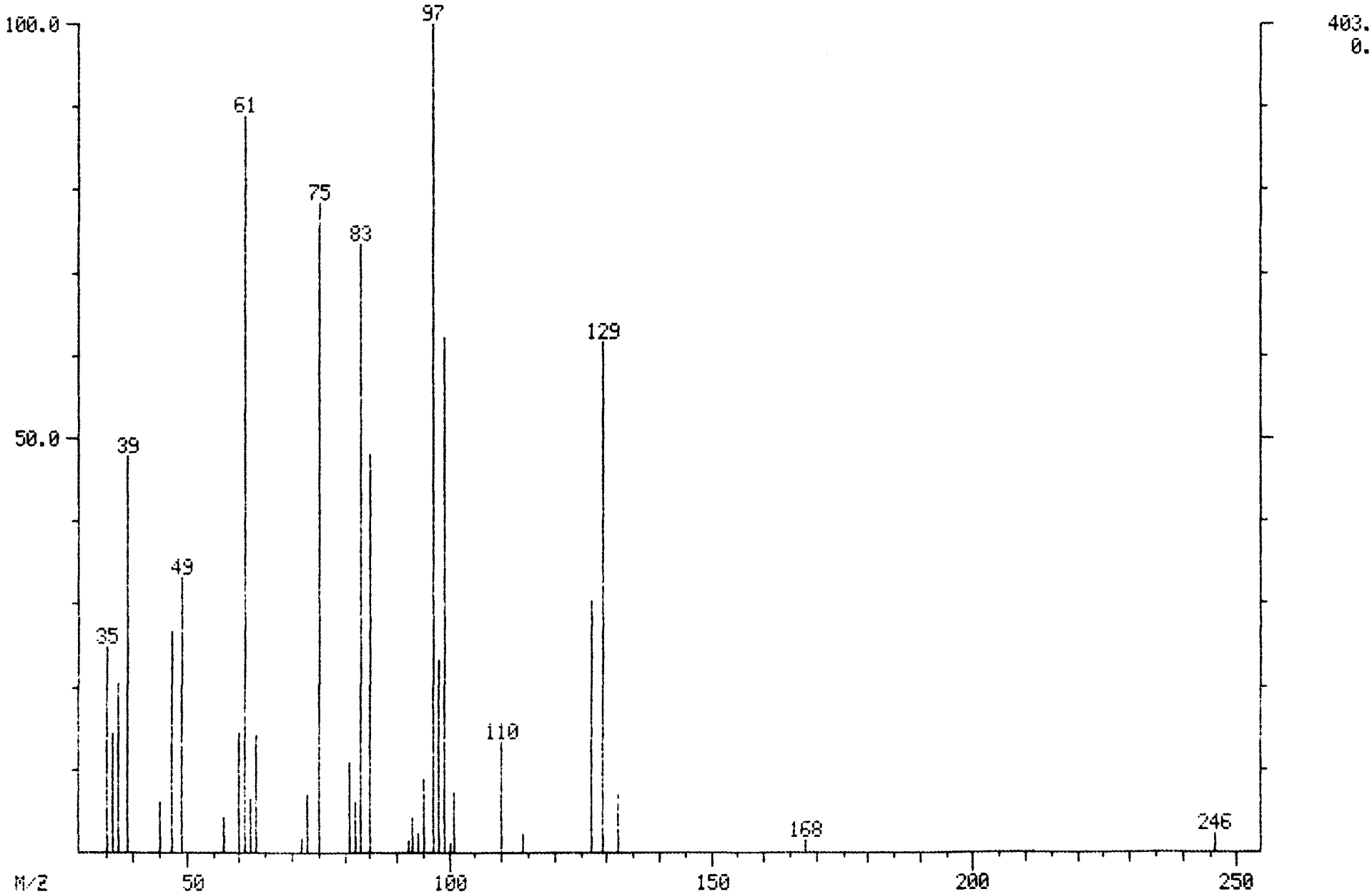
BASE M/Z: 78
RIC: 3256.



MASS SPECTRUM
08/31/89 21:53:00 + 17:52
SAMPLE: CLP.0831..MDL0831.L.W..V.EPA.
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 163 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #536
CALI: MDL0831 #3

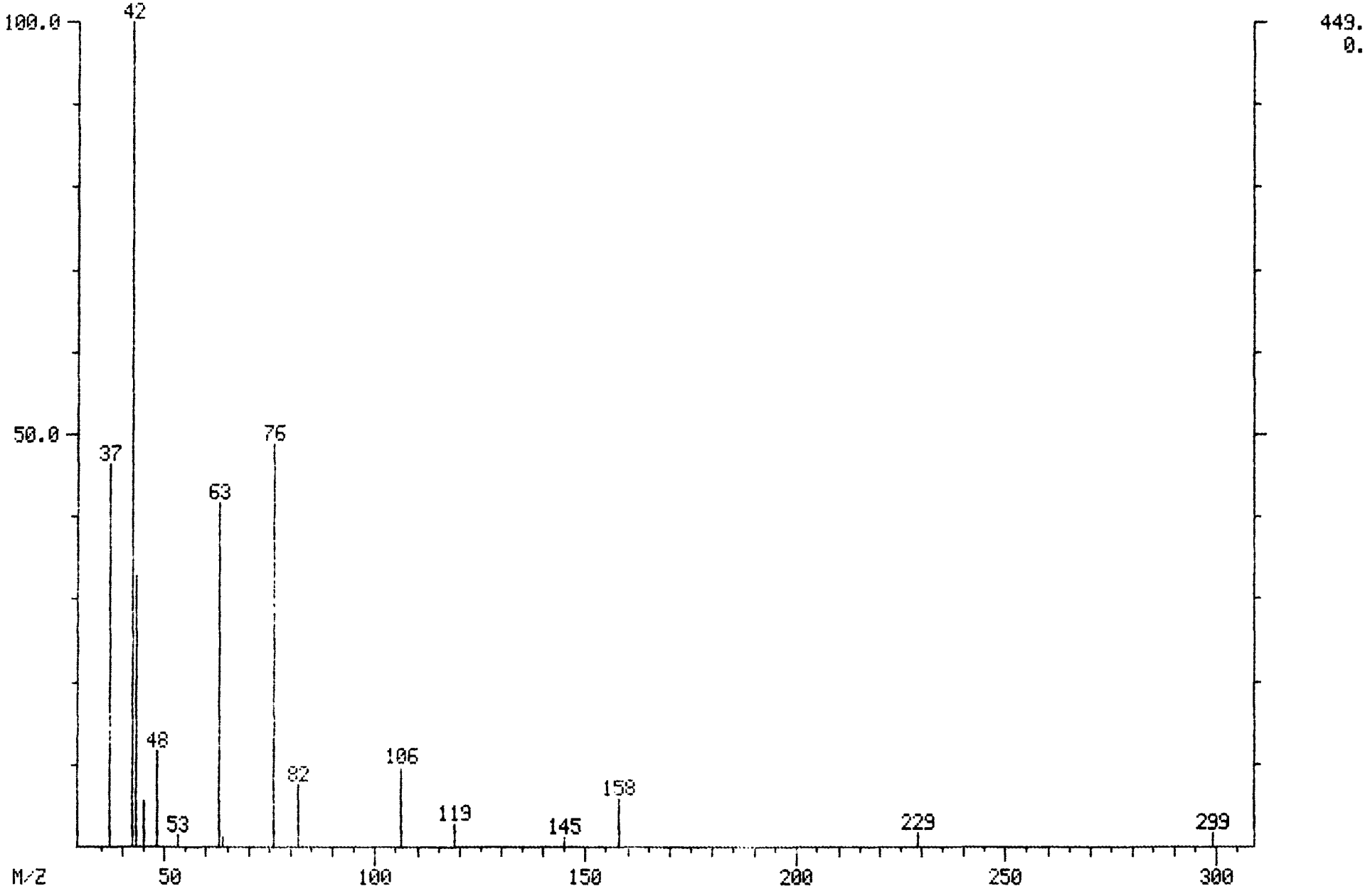
BASE M/Z: 97
RIC: 3460.



MASS SPECTRUM
08/31/89 21:53:00 + 19:00
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 172 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #570
CALI: MDL0831 #3

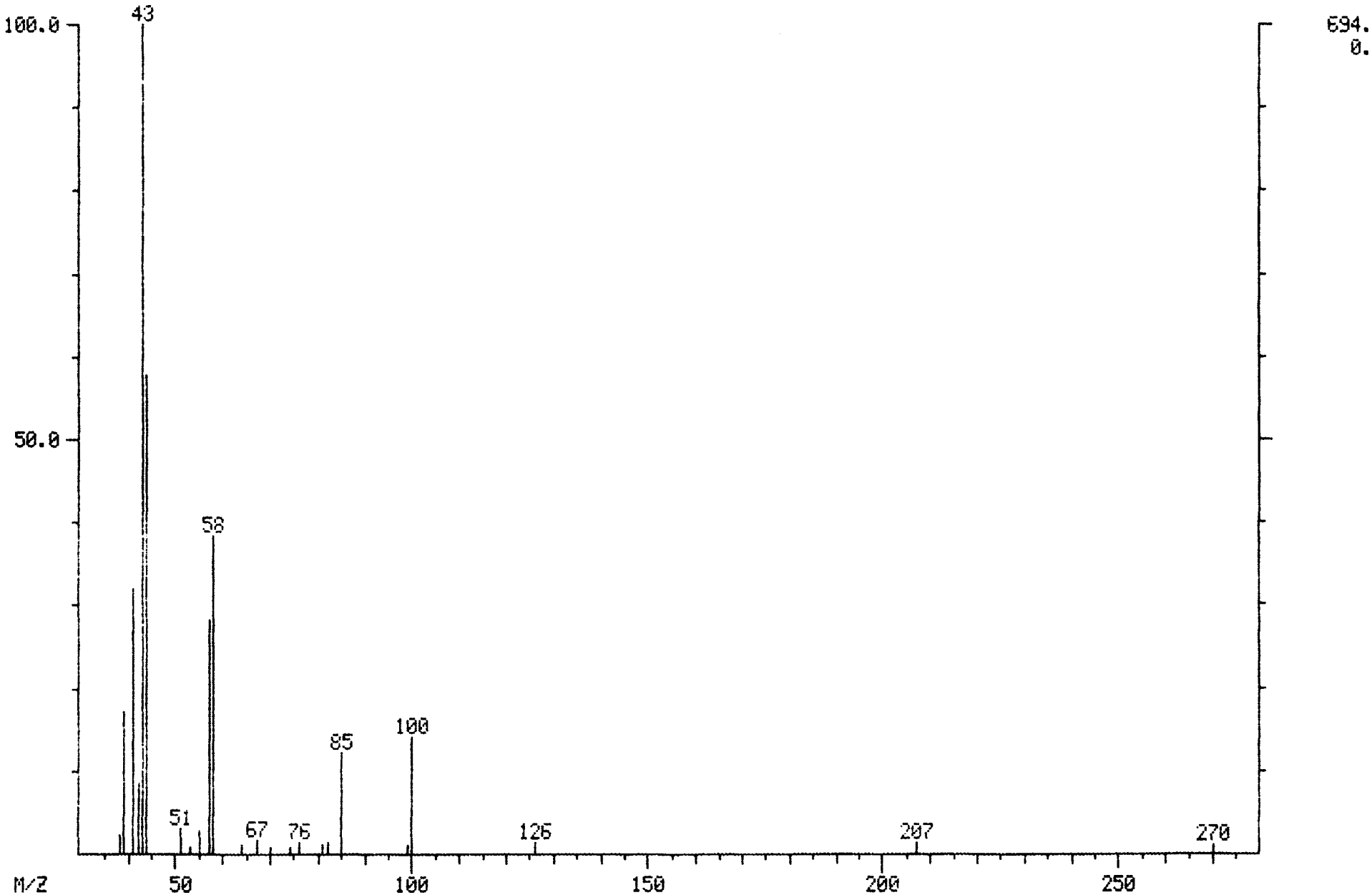
BASE M/Z: 42
RIC: 1440.



MASS SPECTRUM
08/31/89 21:53:00 + 20:58
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 188 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #629
CALI: MDL0831 #3

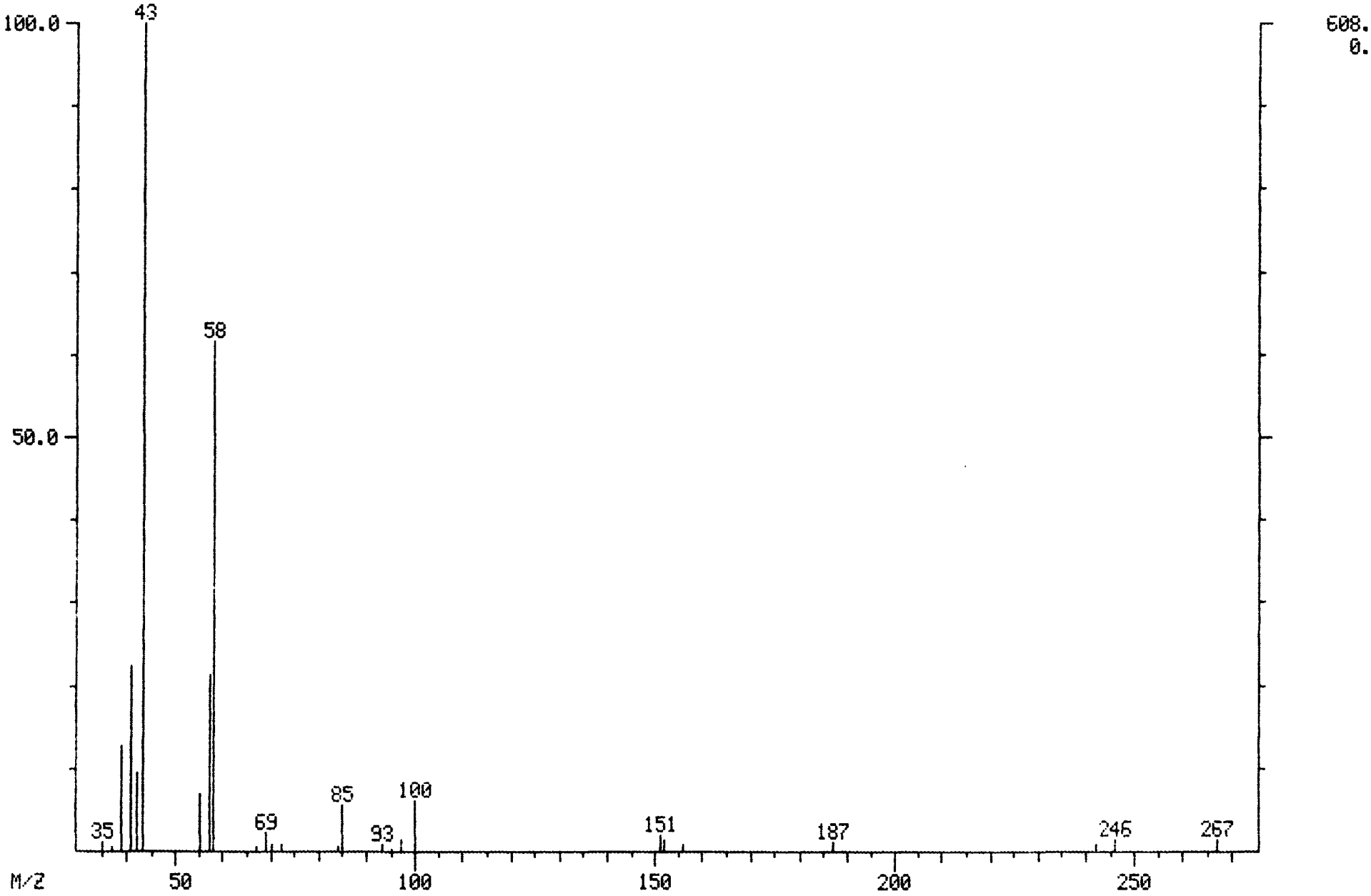
BASE M/Z: 43
RIC: 2288.



MASS SPECTRUM
08/31/89 21:53:00 + 22:30
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 200 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #675
CALI: MDL0831 #3

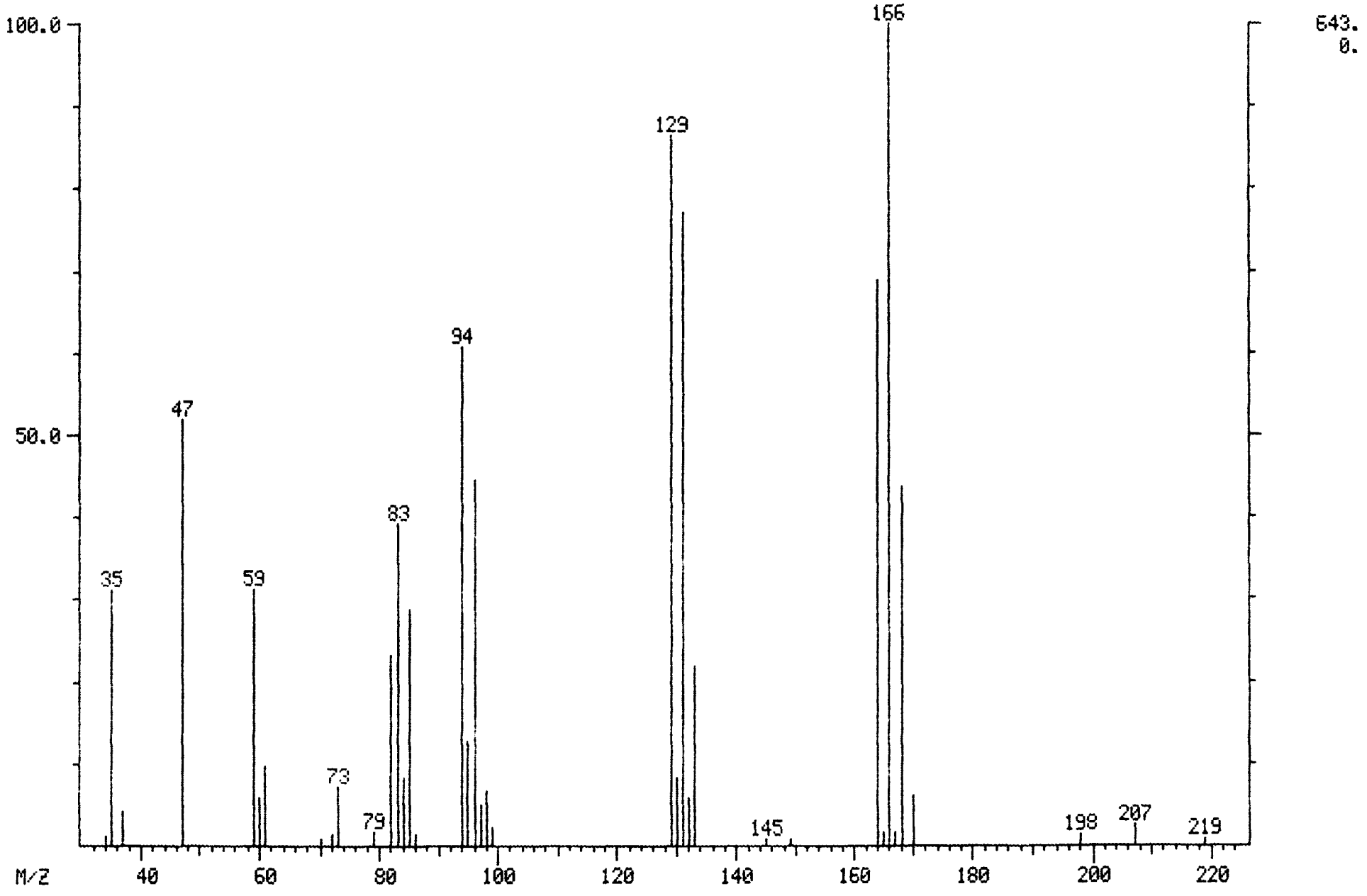
BASE M/Z: 43
RIC: 1616.



MASS SPECTRUM
08/31/89 21:53:00 + 22:50
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 203 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #685
CALI: MDL0831 #3

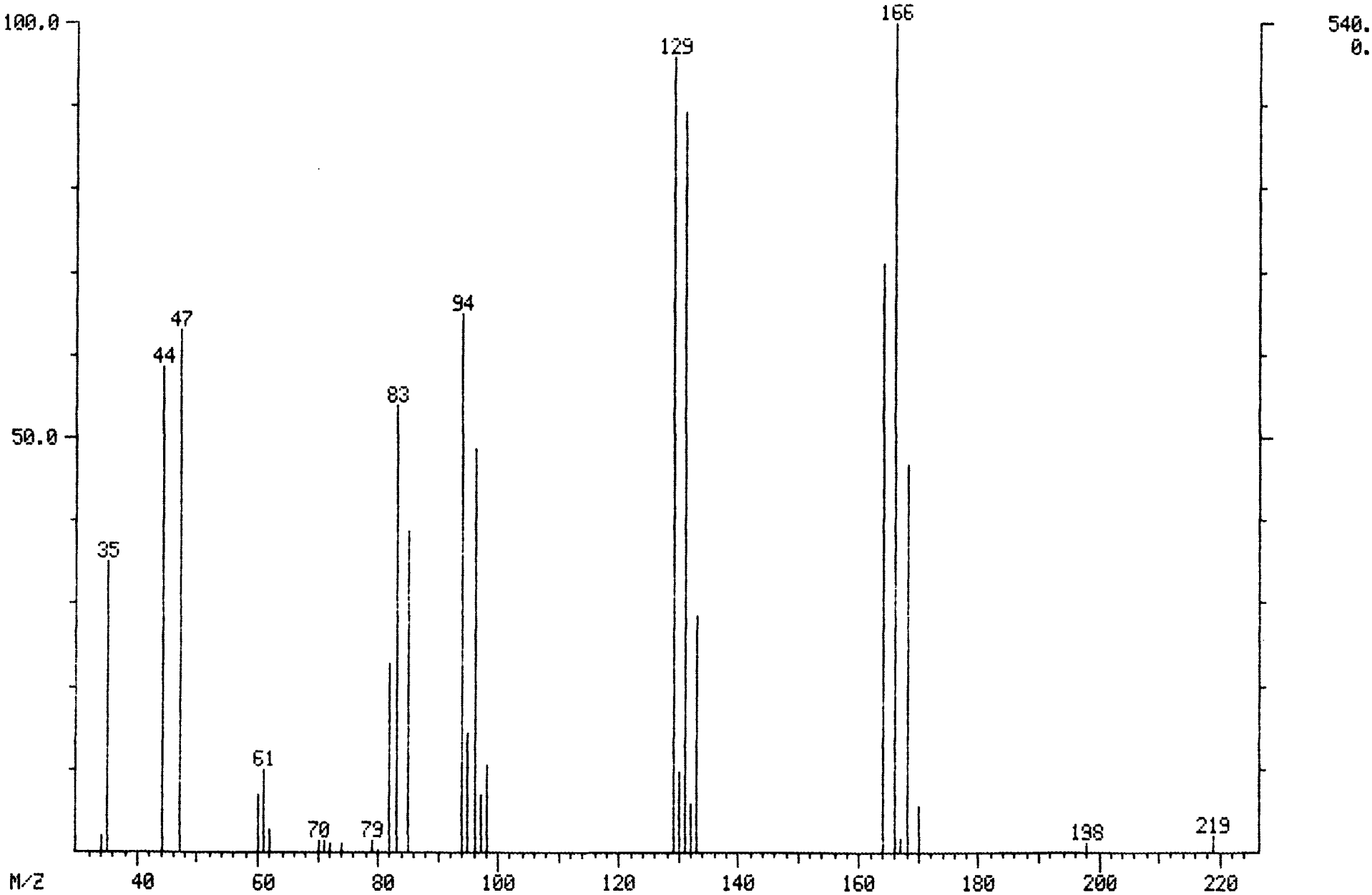
BASE M/Z: 166
RIC: 5192.



MASS SPECTRUM
08/31/89 21:53:00 + 22:48
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 202 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #684
CALI: MDL0831 #3

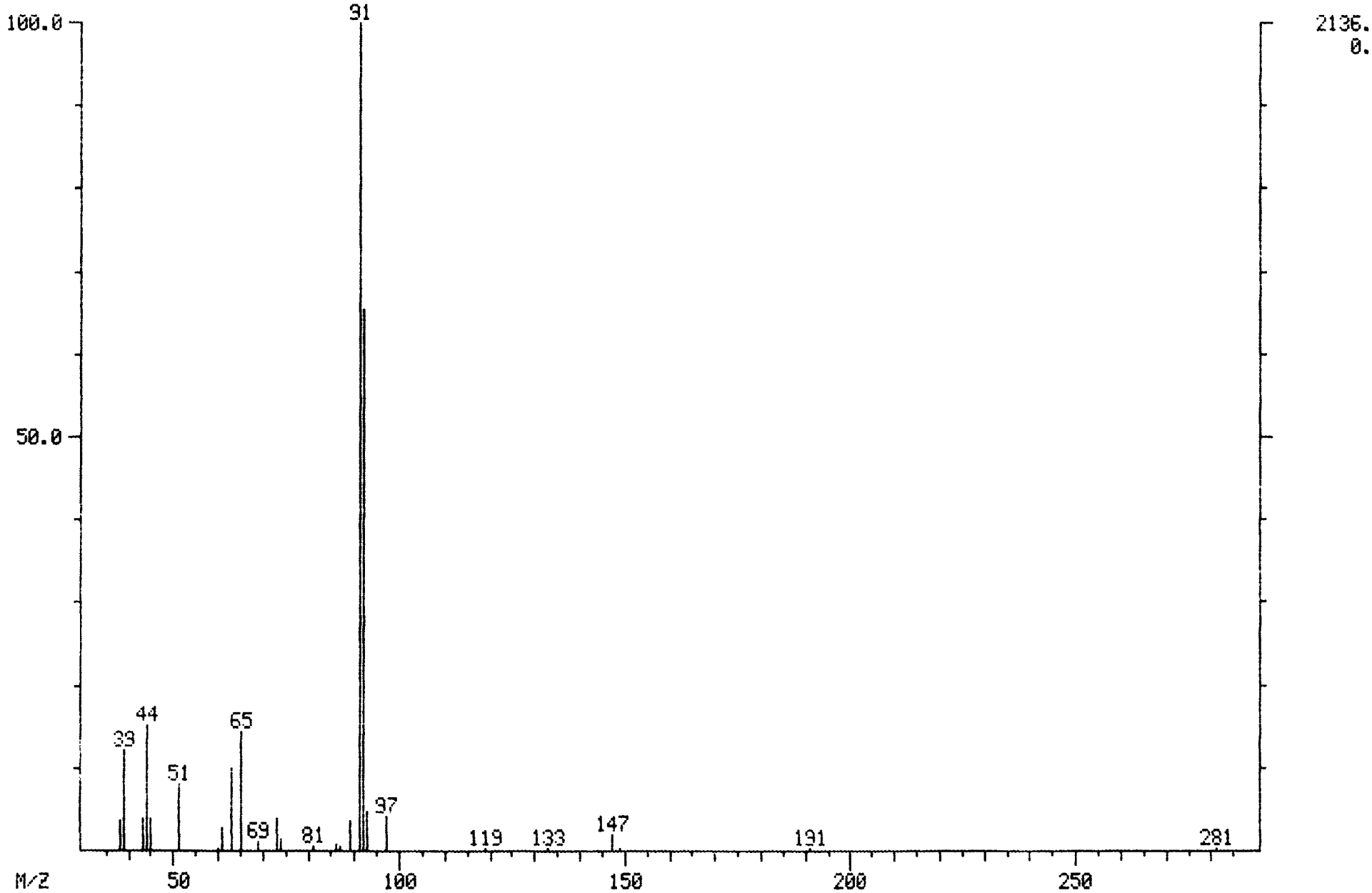
BASE M/Z: 166
RIC: 4880.



MASS SPECTRUM
08/31/89 21:53:00 + 24:08
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 213 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #724
CALI: MDL0831 #3

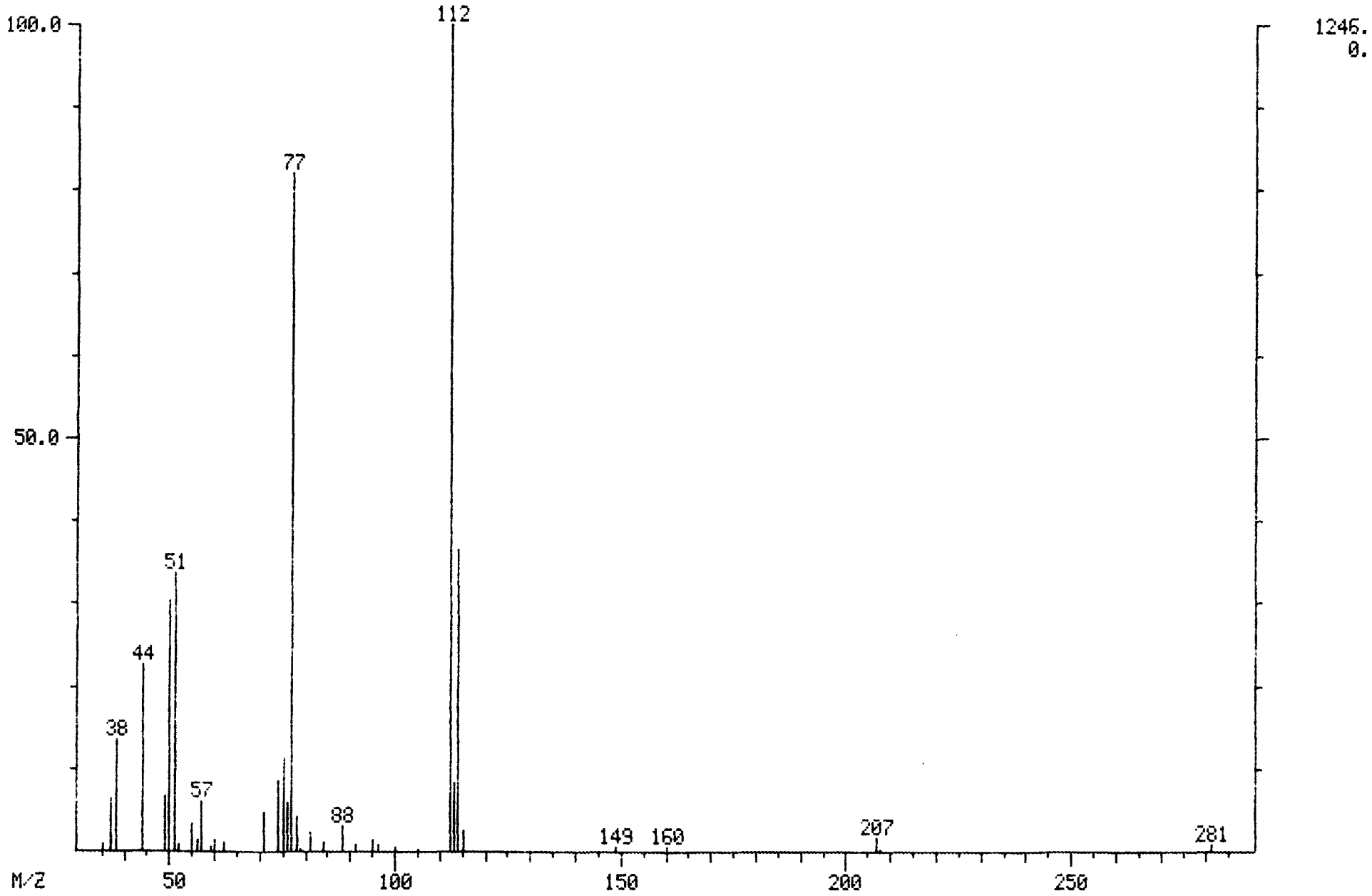
BASE M/Z: 91
RIC: 5632.



MASS SPECTRUM
08/31/89 21:53:00 + 25:18
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #759
CALI: MDL0831 #3

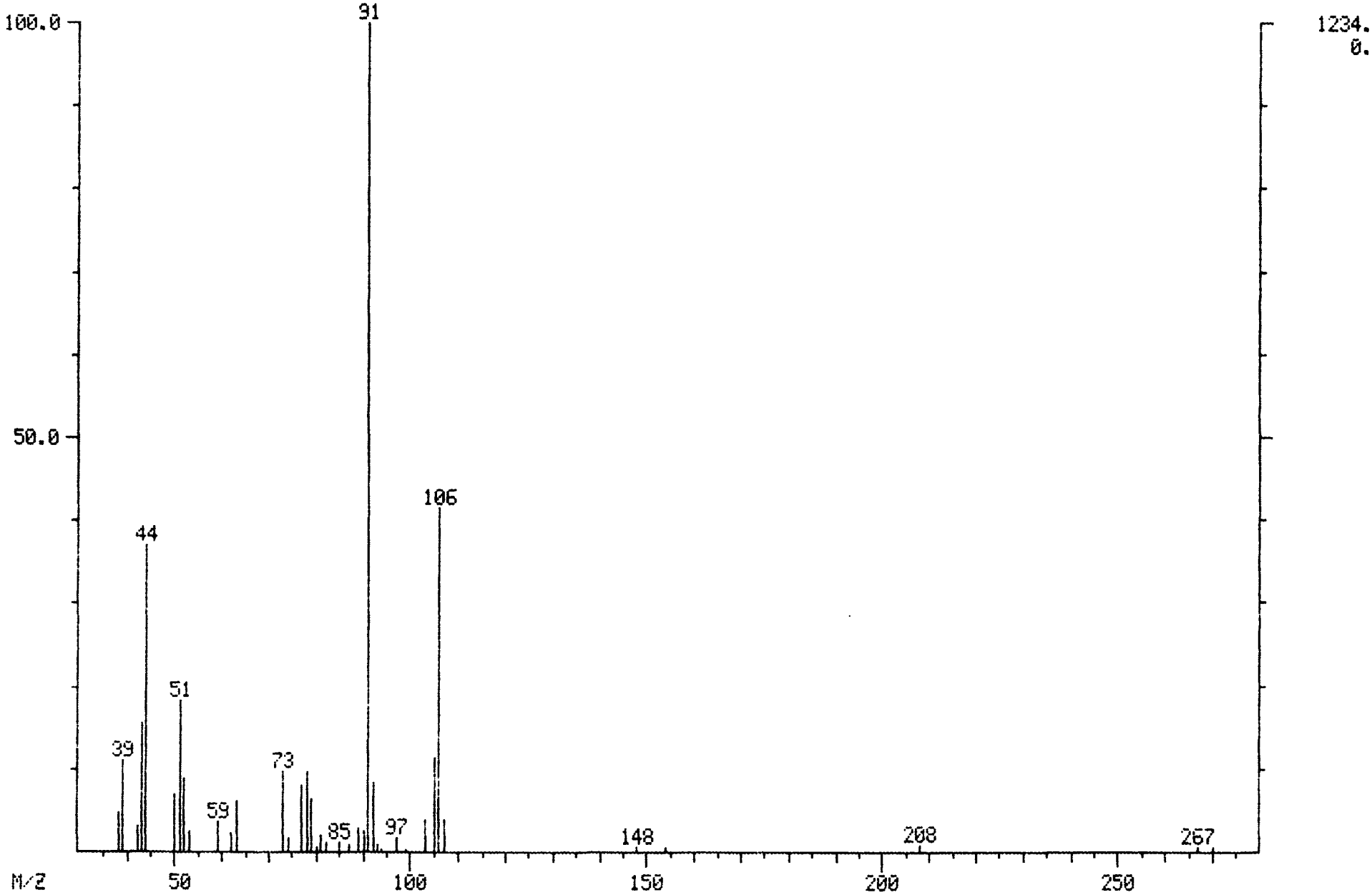
BASE M/Z: 112
RIC: 5104.



MASS SPECTRUM
08/31/89 21:53:00 + 27:18
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #819
CALI: MDL0831 #3

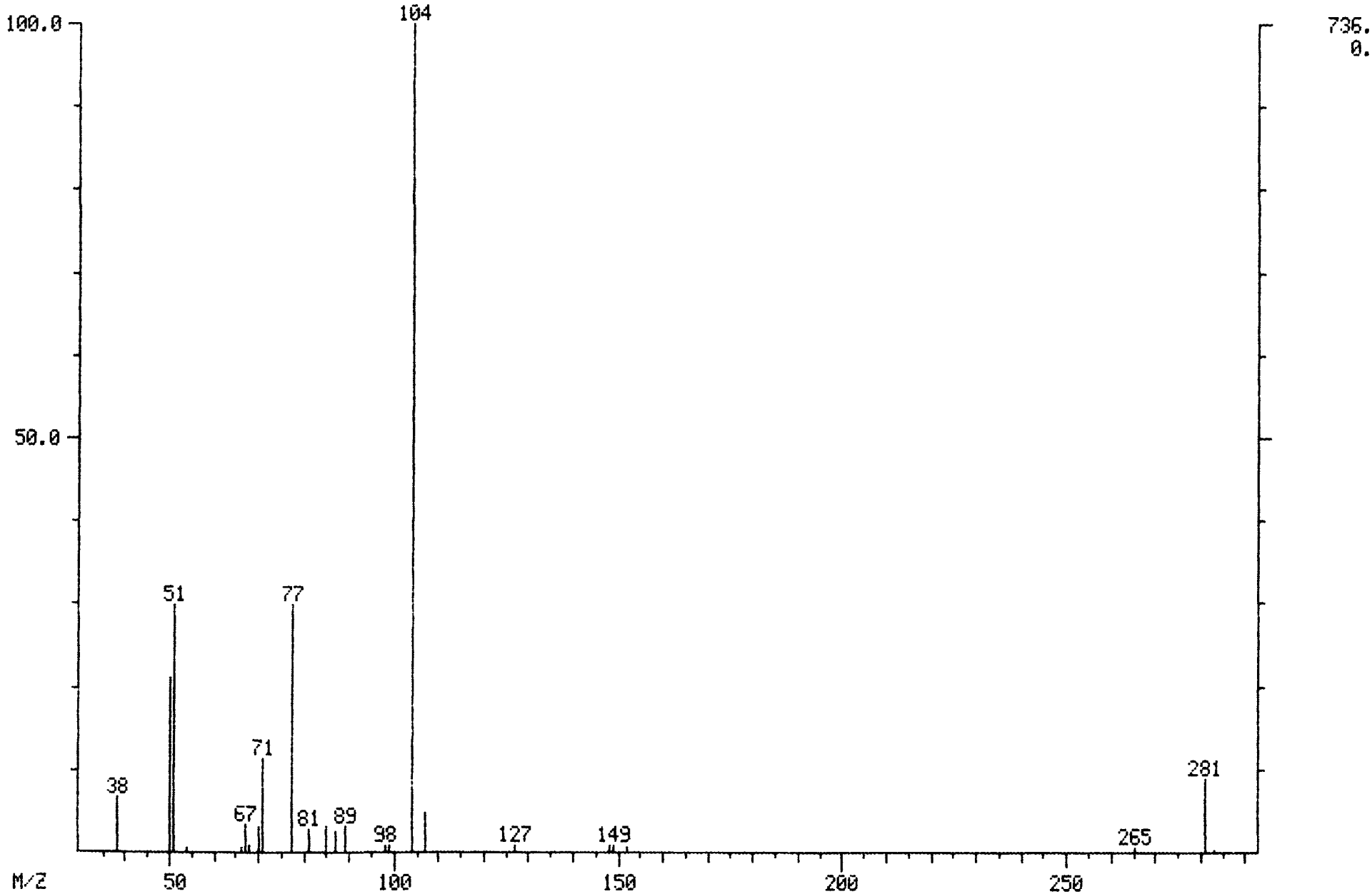
BASE M/Z: 91
RIC: 4224.



MASS SPECTRUM
08/31/89 21:53:00 + 31:36
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #948
CALI: MDL0831 #3

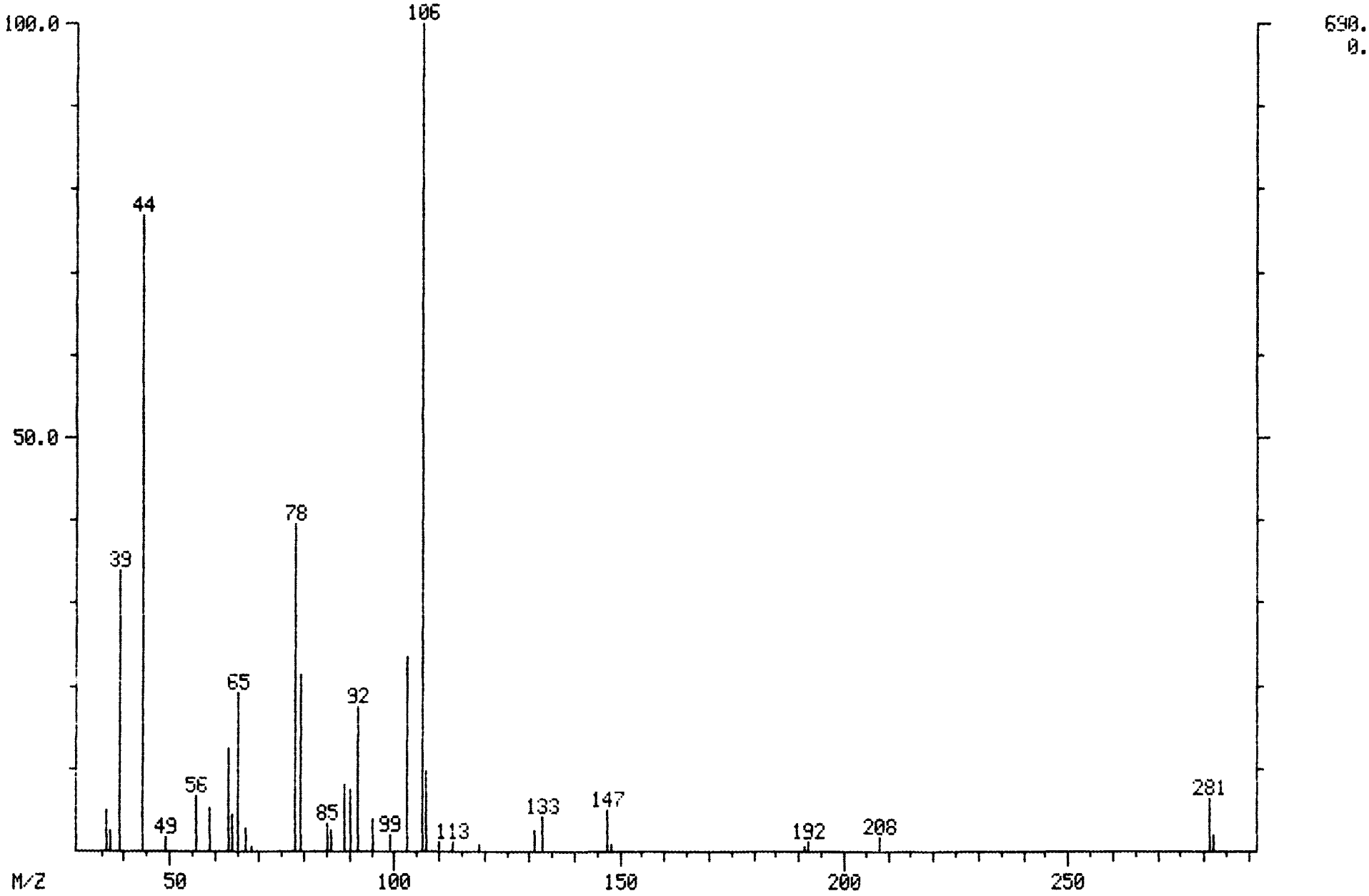
BASE M/Z: 104
RIC: 1758.



MASS SPECTRUM
08/31/89 21:53:00 + 31:52
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #956
CALI: MDL0831 #3

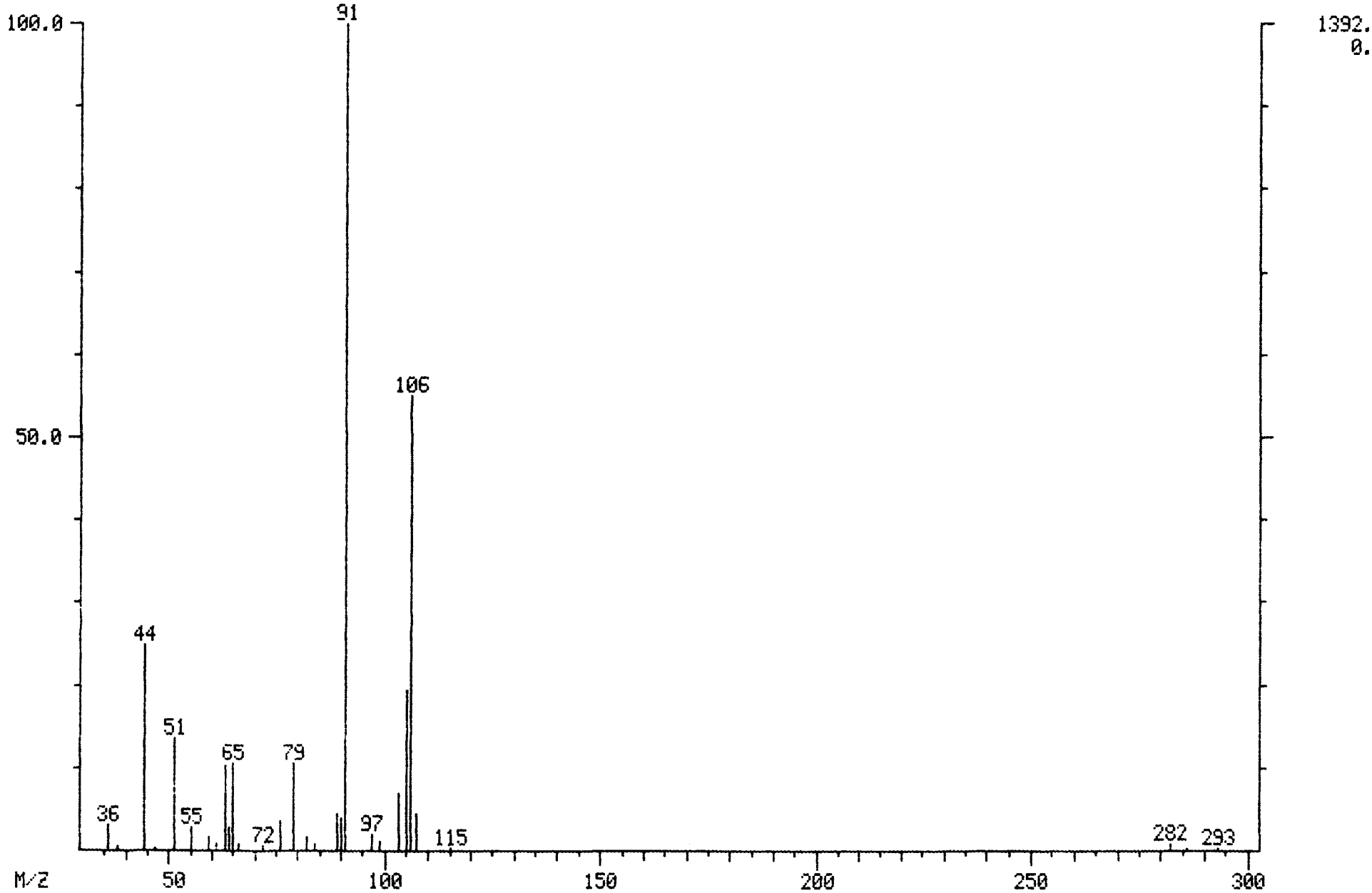
BASE M/Z: 106
RIC: 3024.



MASS SPECTRUM
08/31/89 21:53:00 + 32:52
SAMPLE: CLP,0831,,MDL0831,L,W,,V,EPA,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: MDL0831 #986
CALI: MDL0831 #3

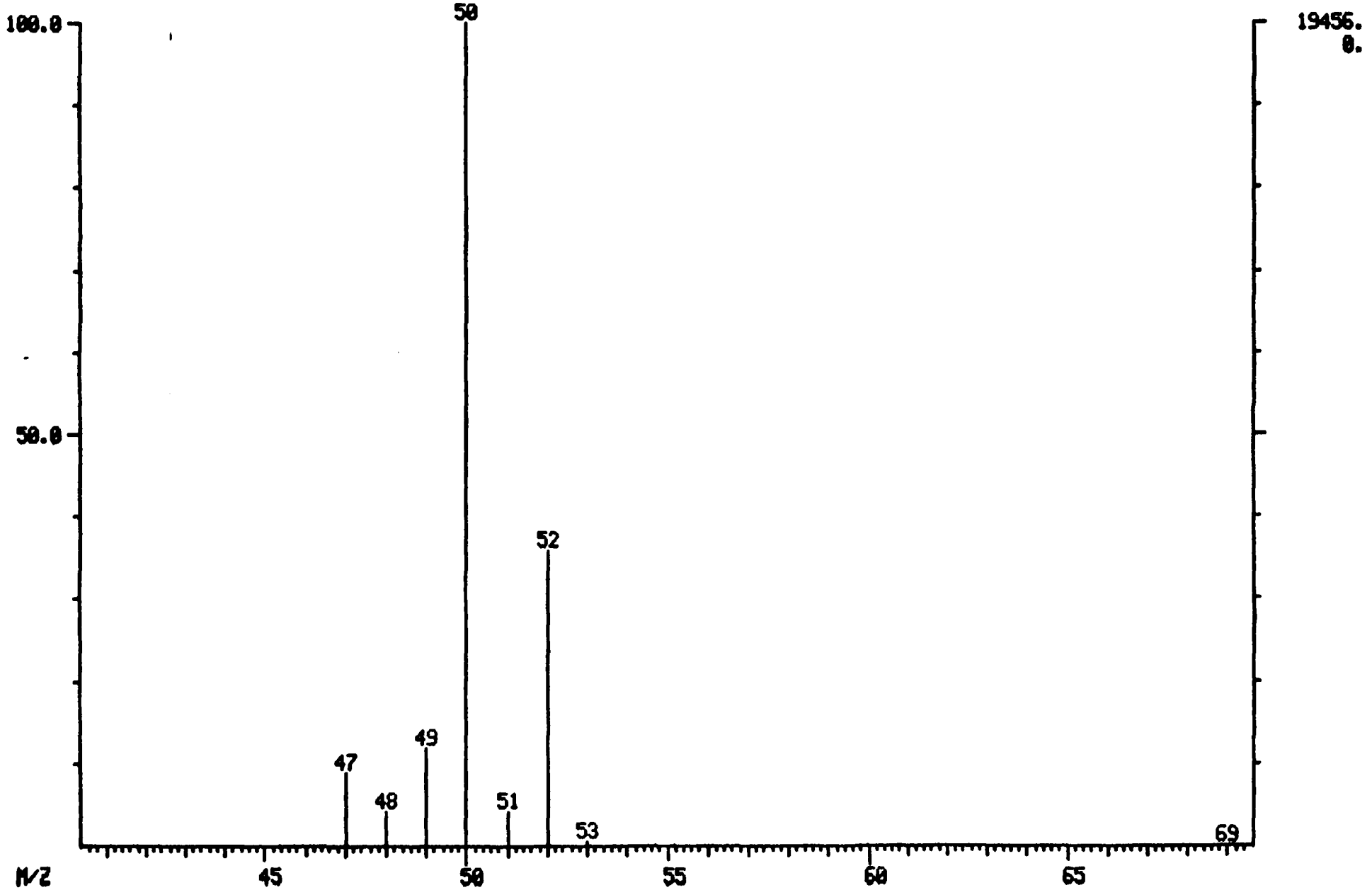
BASE M/Z: 91
RIC: 4012.



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

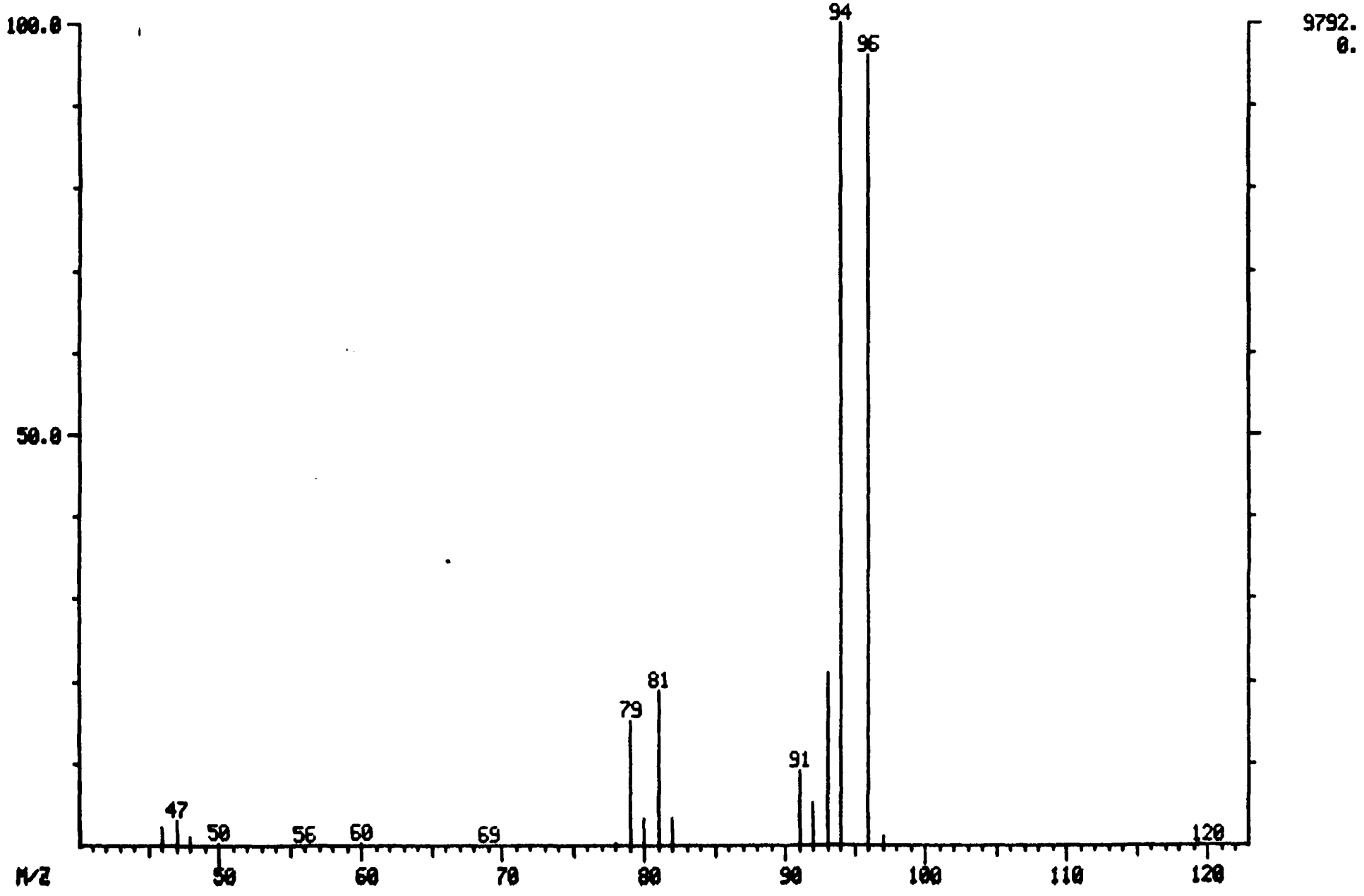
BASE M/Z: 50
RIC: 32256.



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

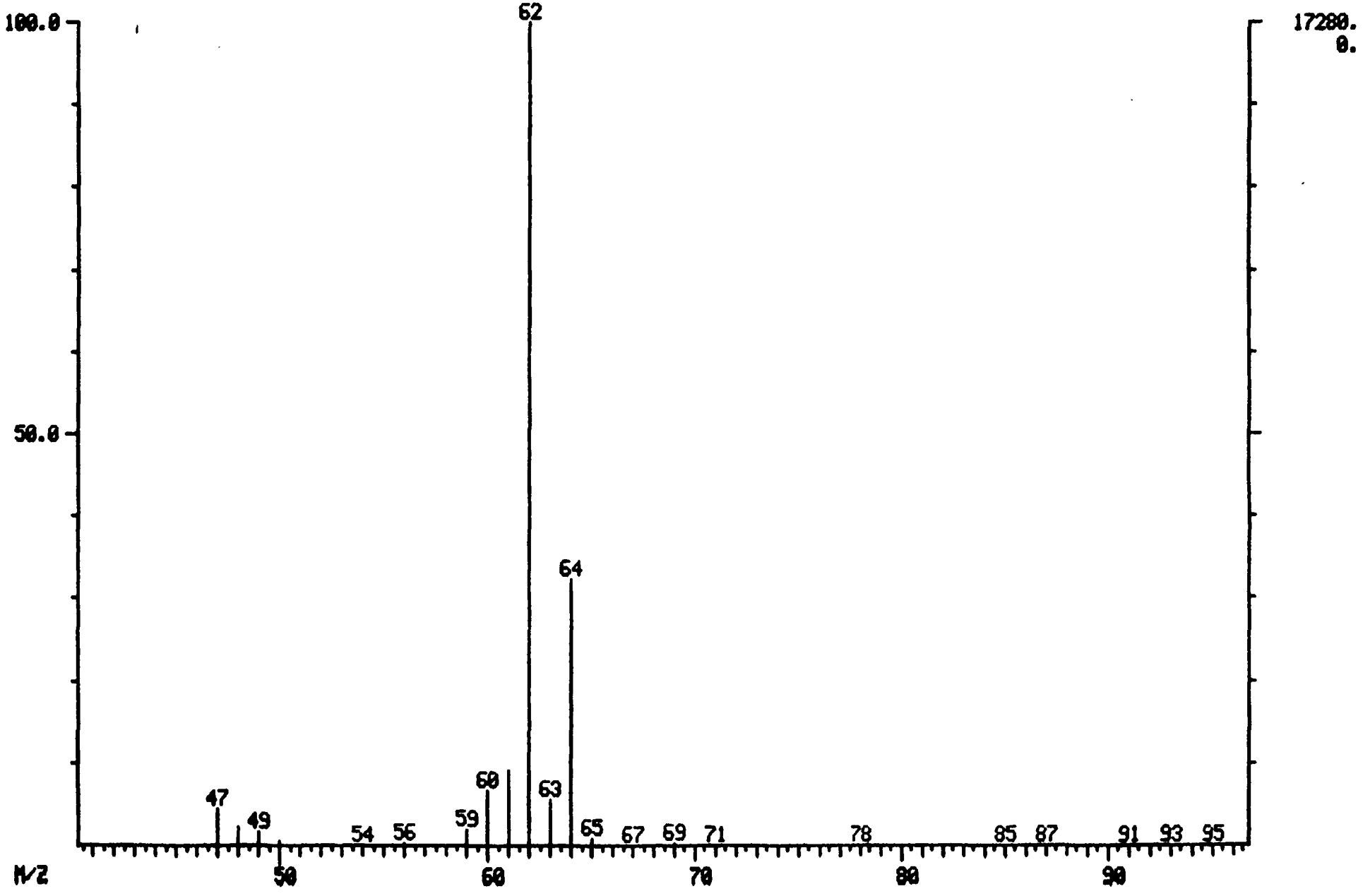
BASE M/Z: 94
RIC: 27488.



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

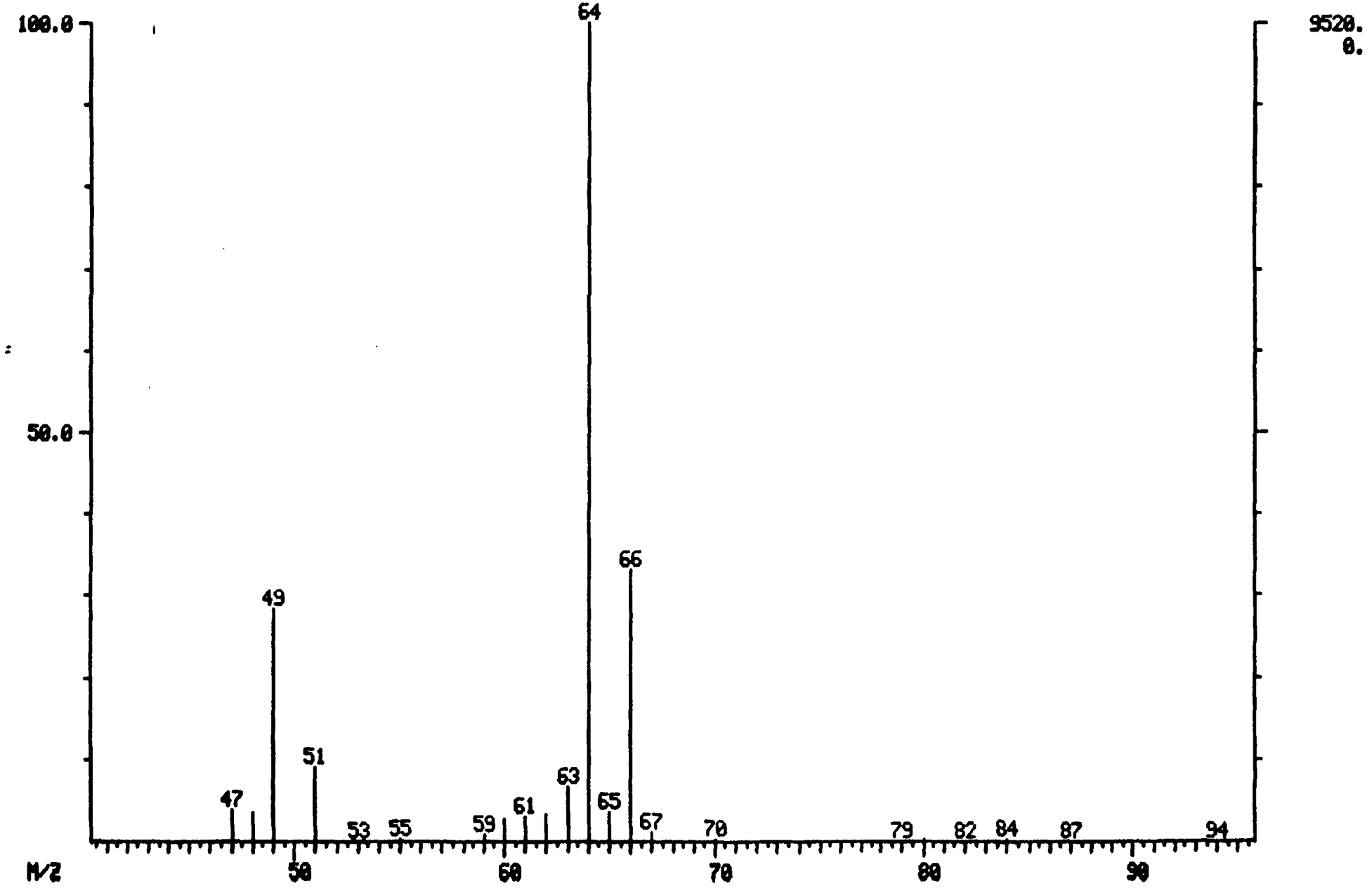
BASE M/Z: 62
RIC: 28672.



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

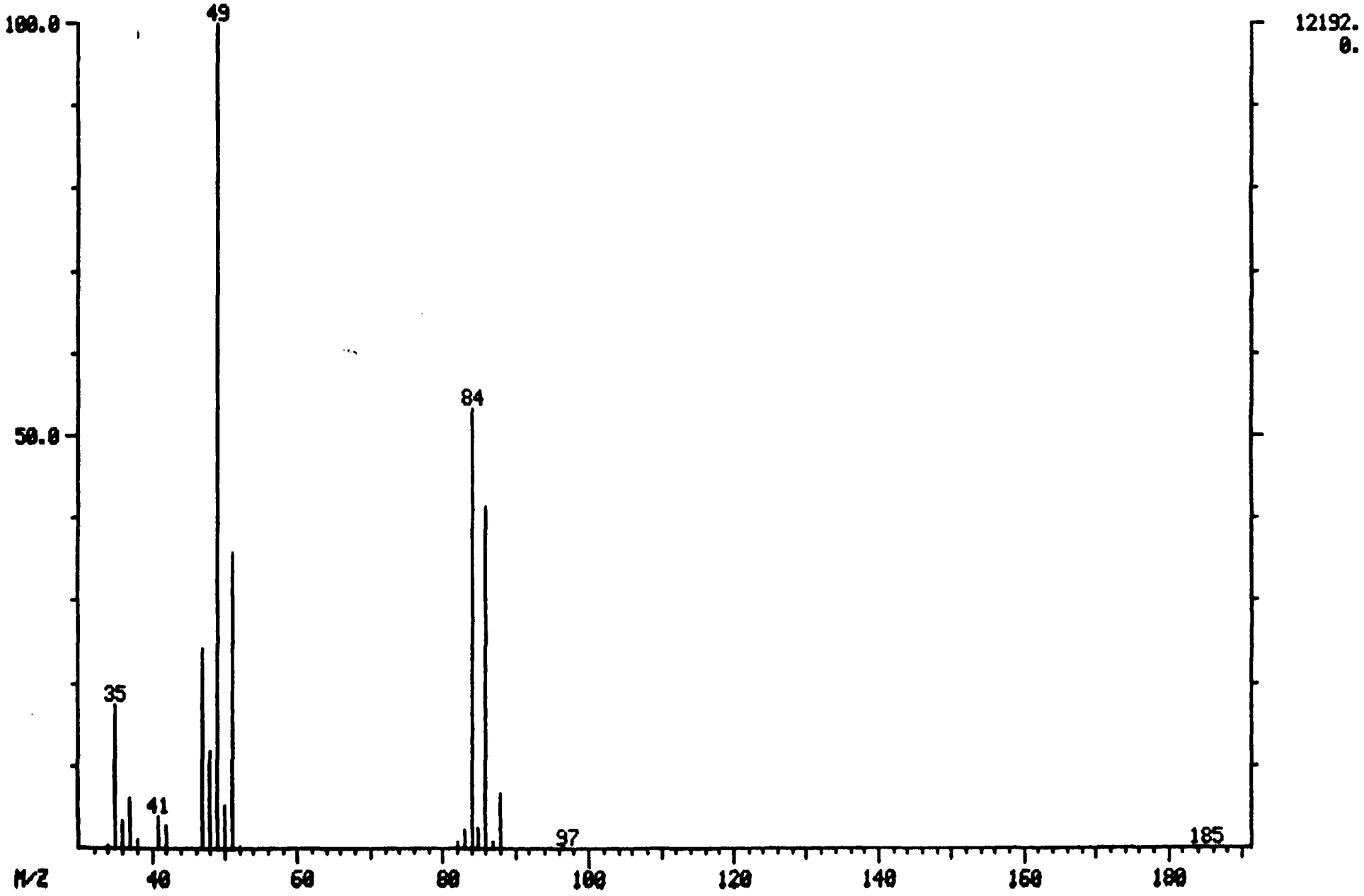
BASE M/Z: 64
RIC: 19136.



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

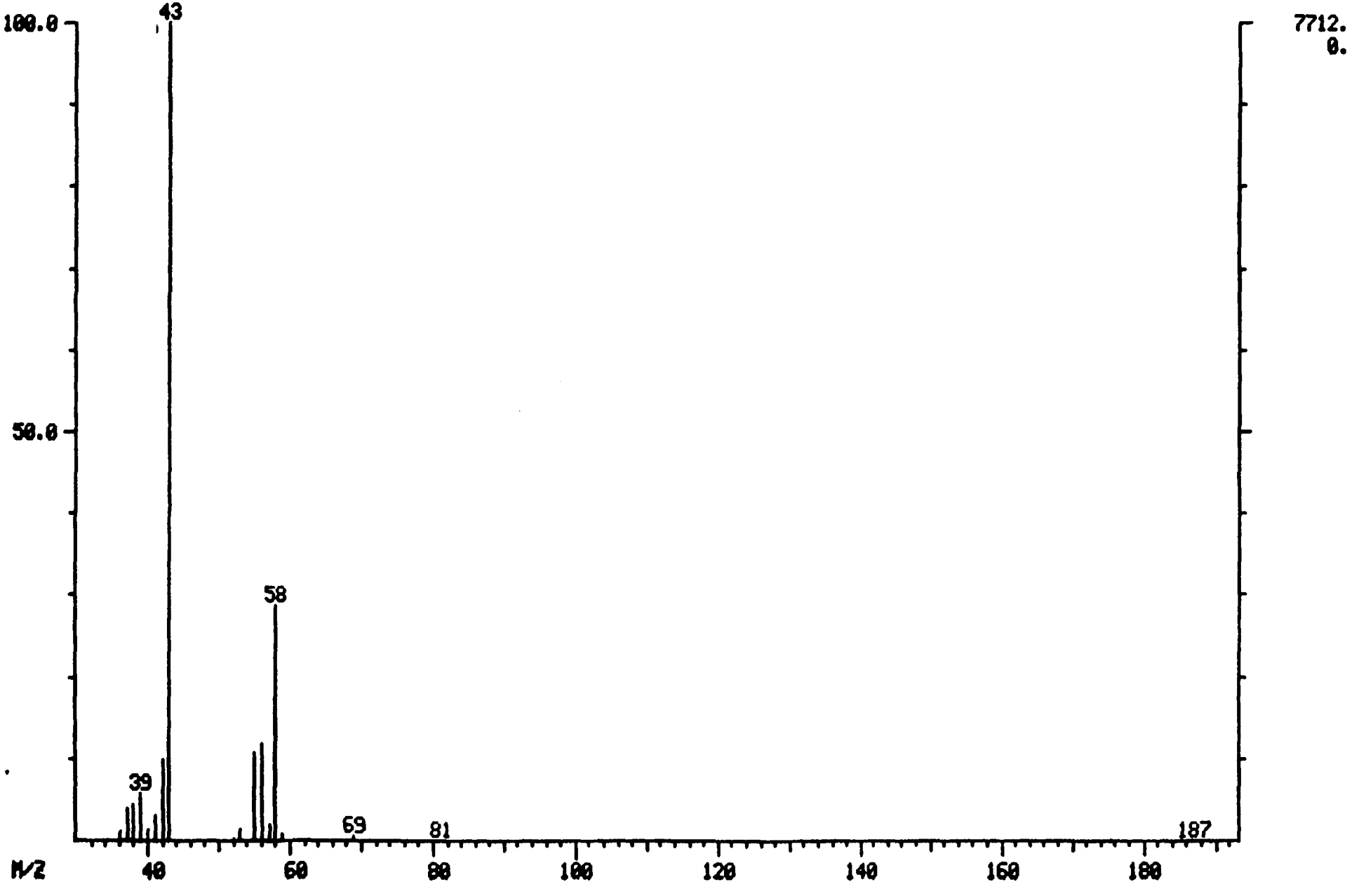
BASE M/Z: 49
RIC: 39104.



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

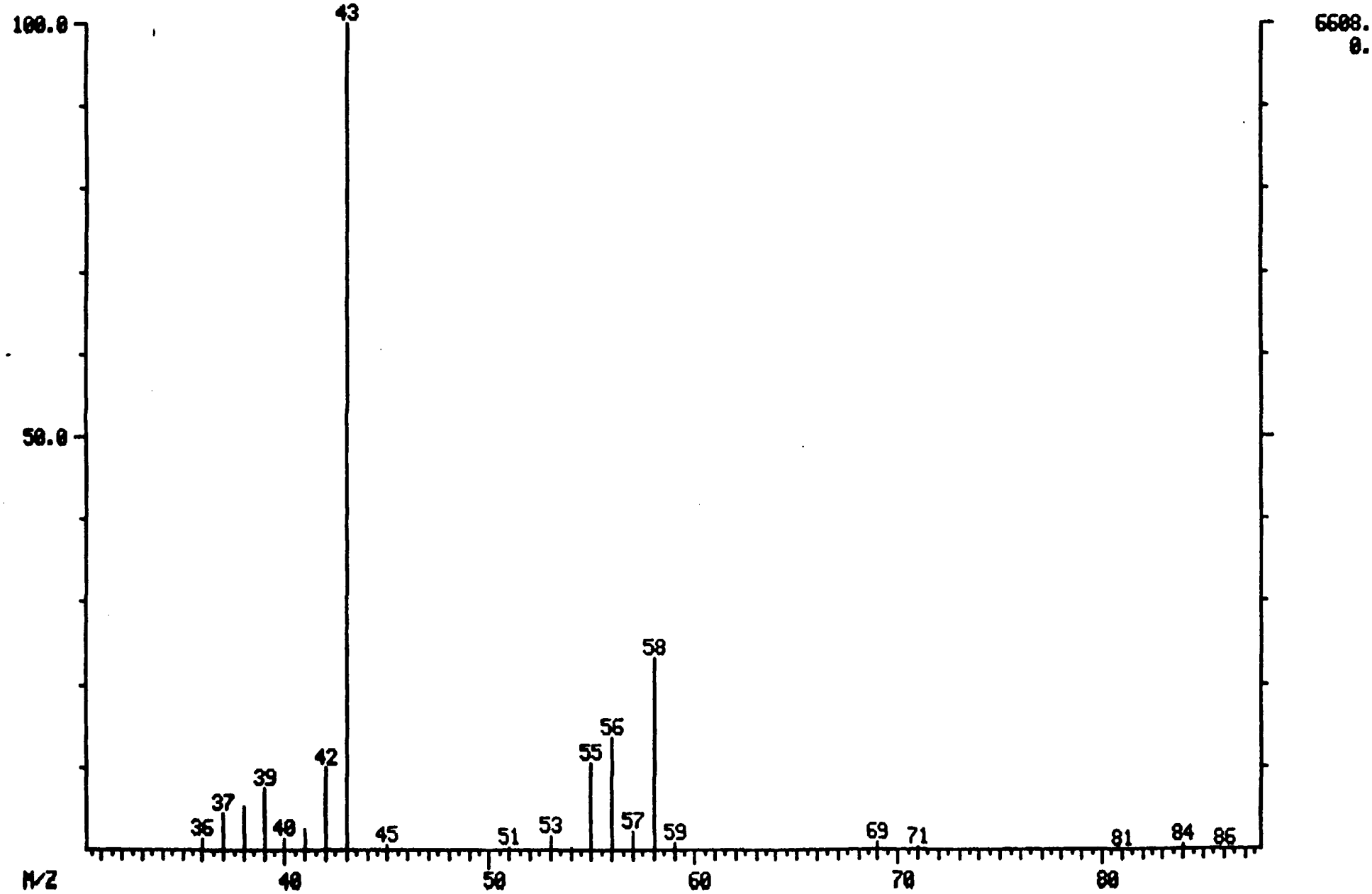
BASE M/Z: 43
RIC: 14352.



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

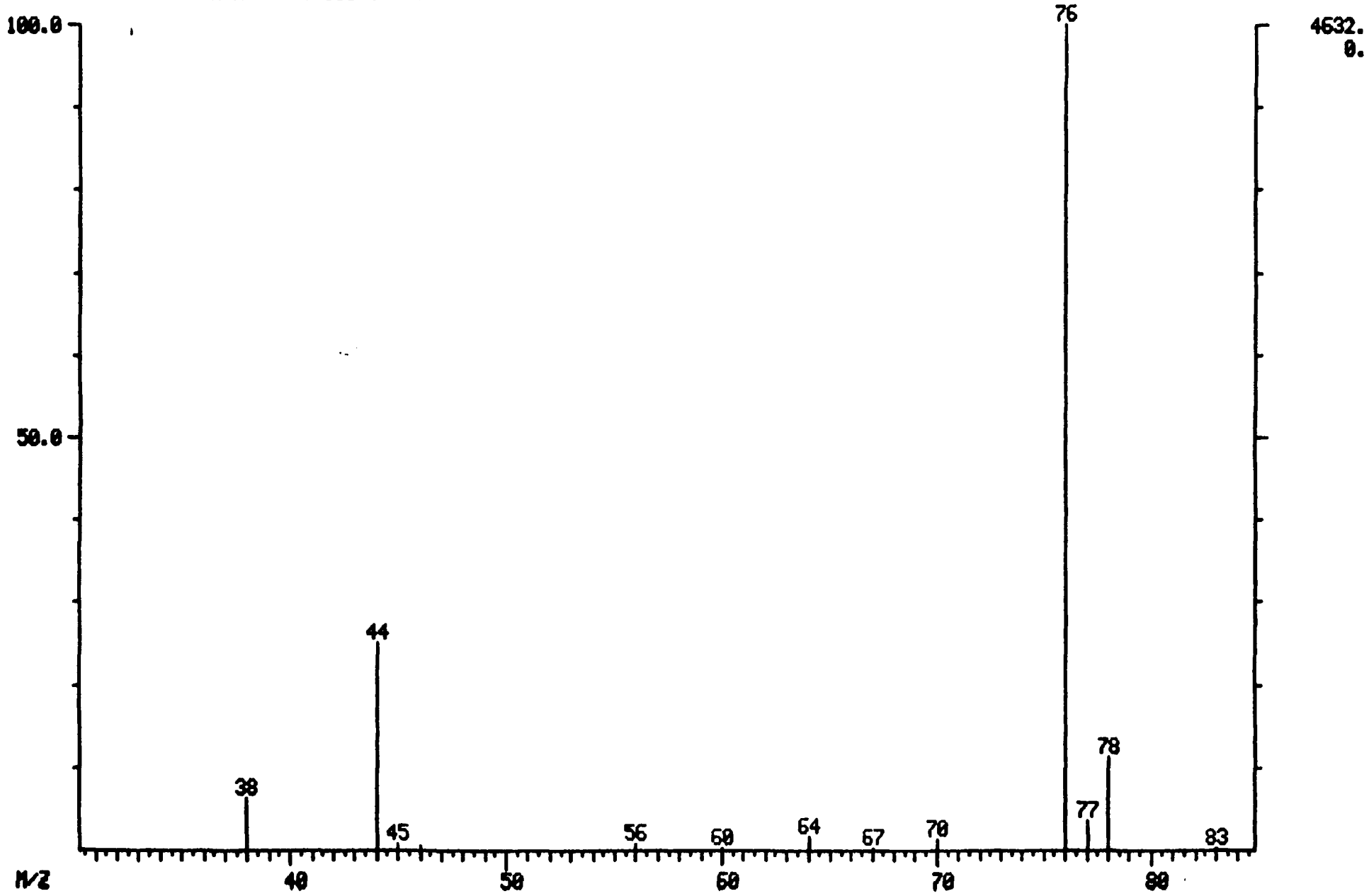
BASE M/Z: 43
RIC: 12400.



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

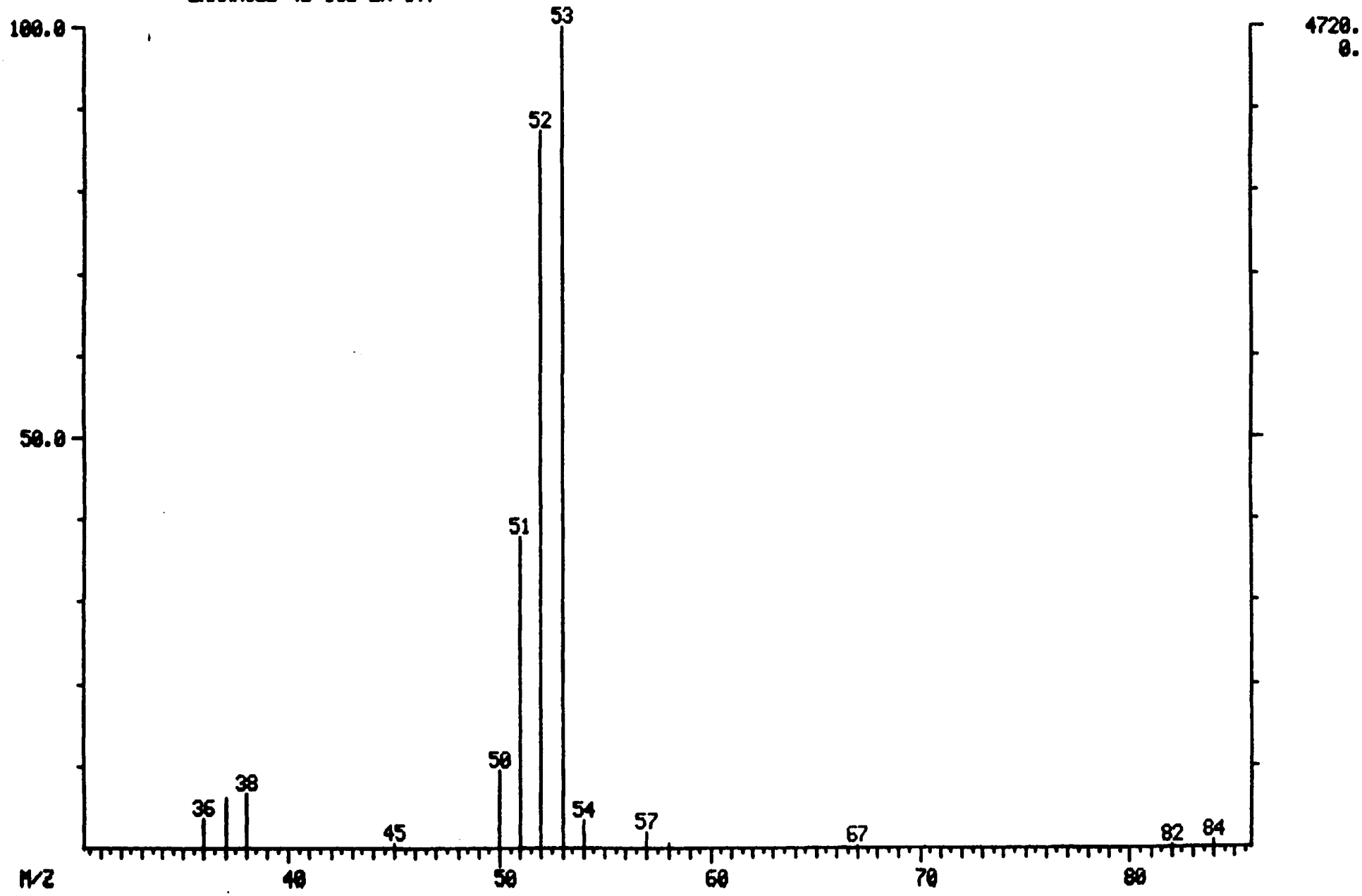
BASE M/Z: 76
RIC: 7048.



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

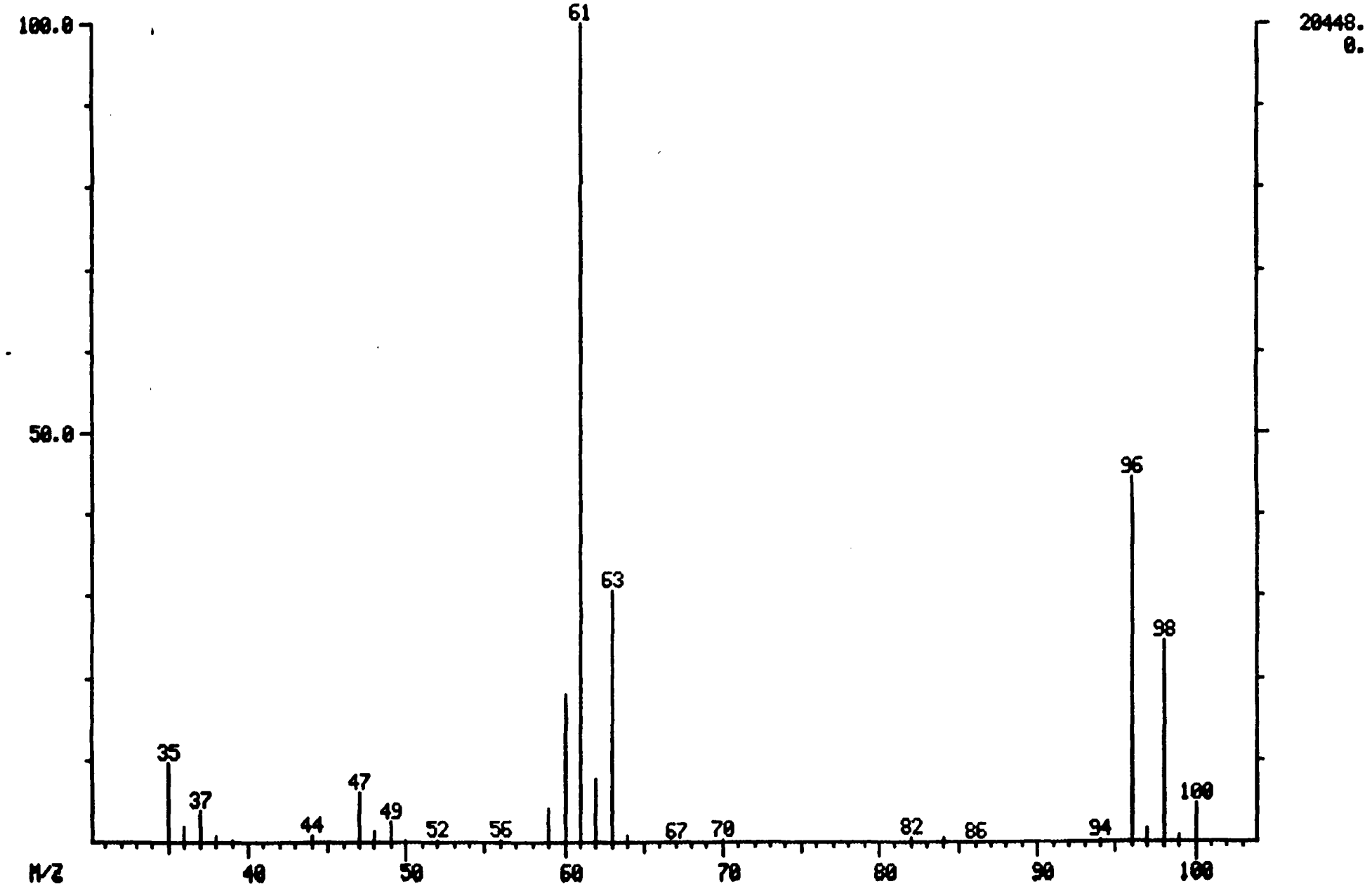
BASE M/Z: 53
RIC: 12224.



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

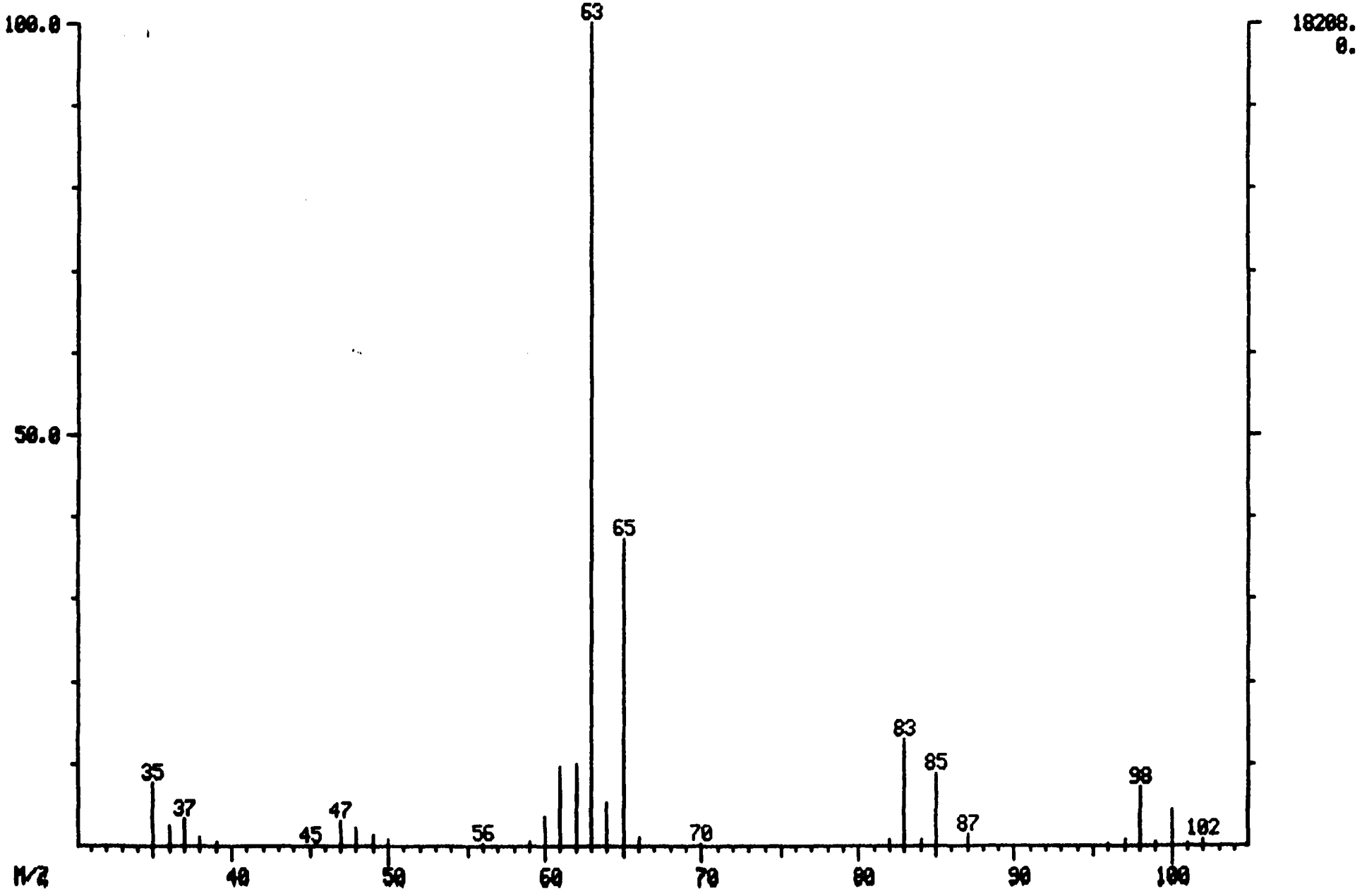
BASE M/Z: 61
RIC: 54720.



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

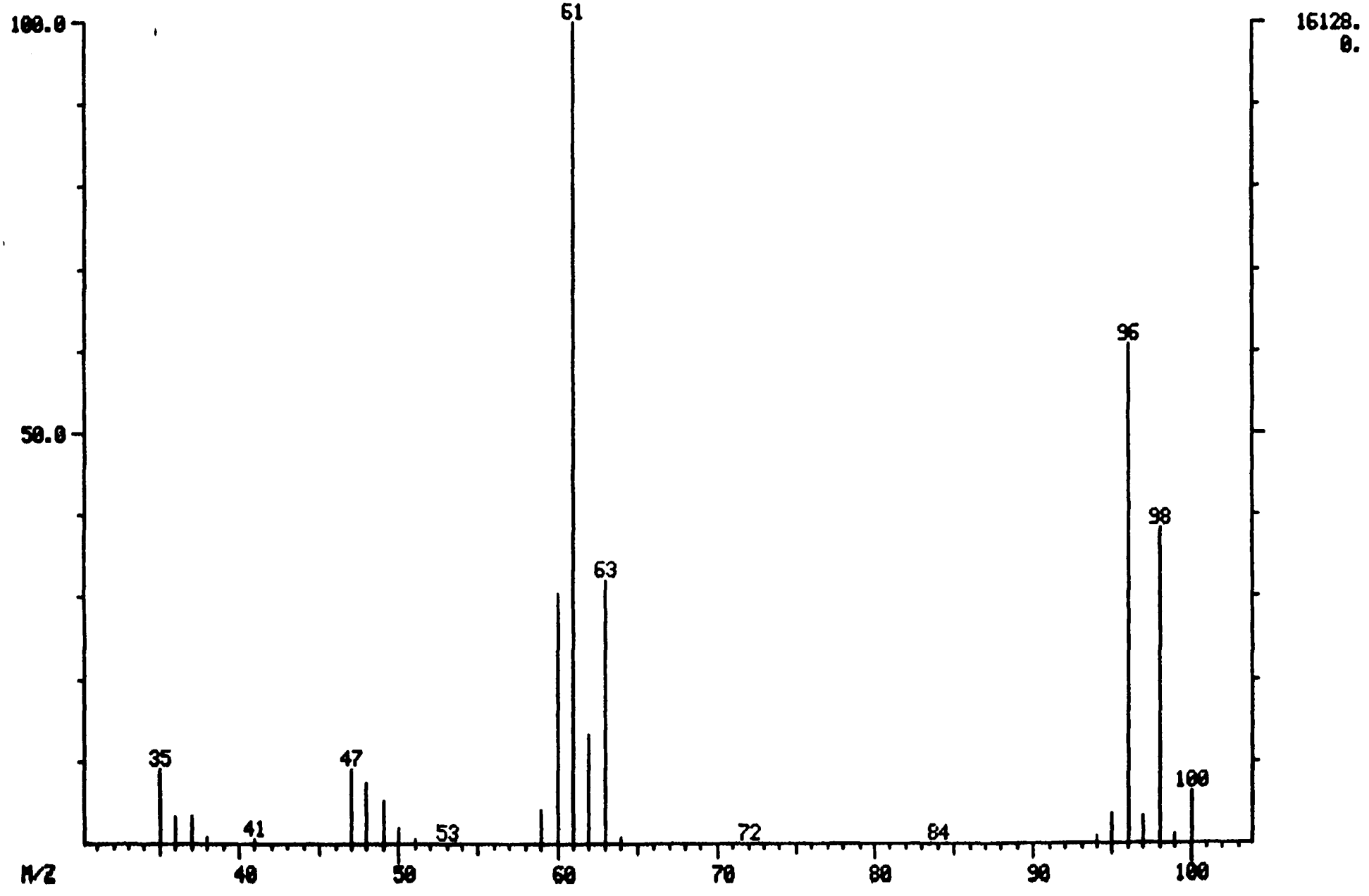
BASE M/Z: 63
RIC: 41792.



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

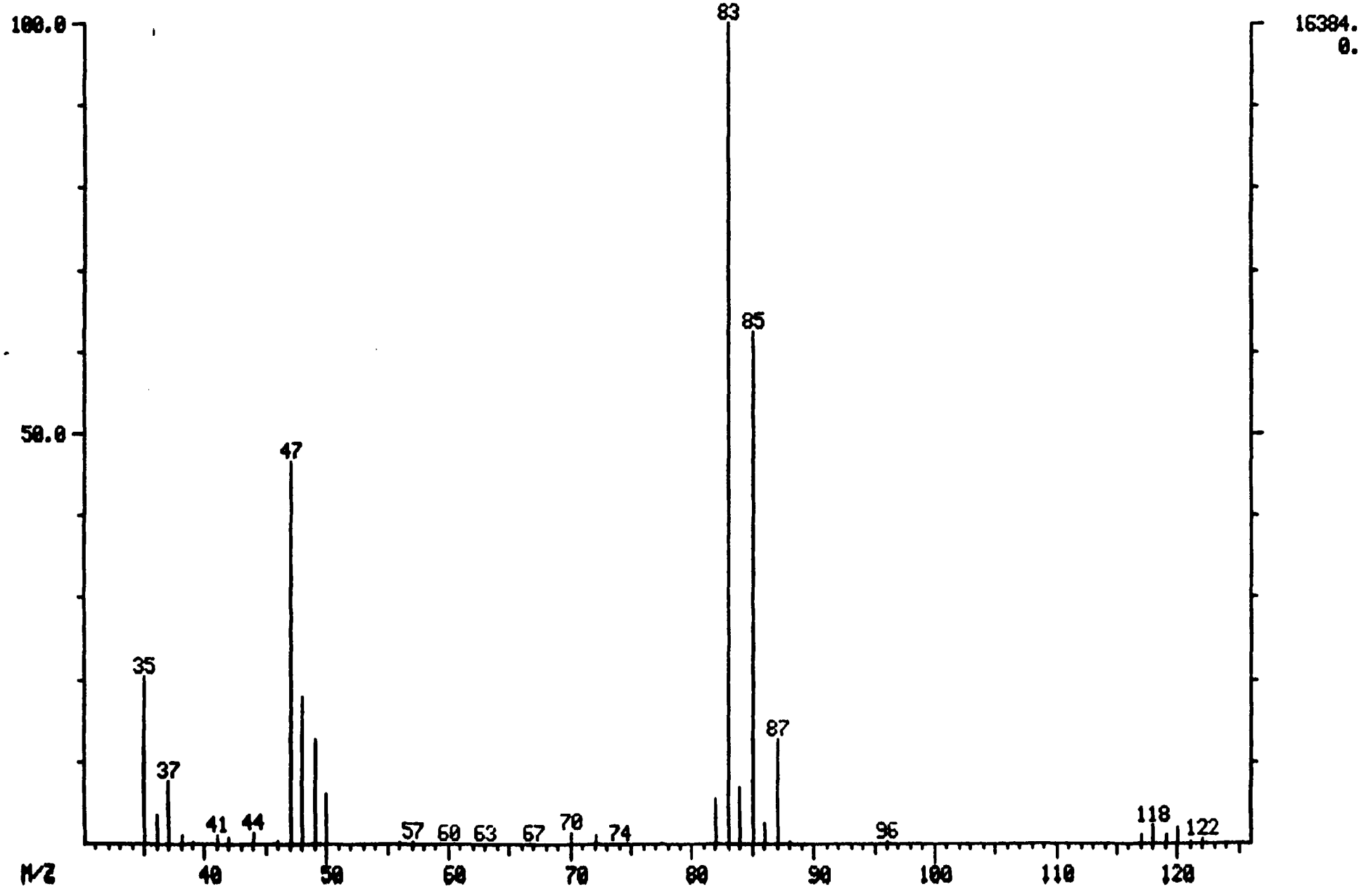
BASE M/Z: 61
RIC: 54336.



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

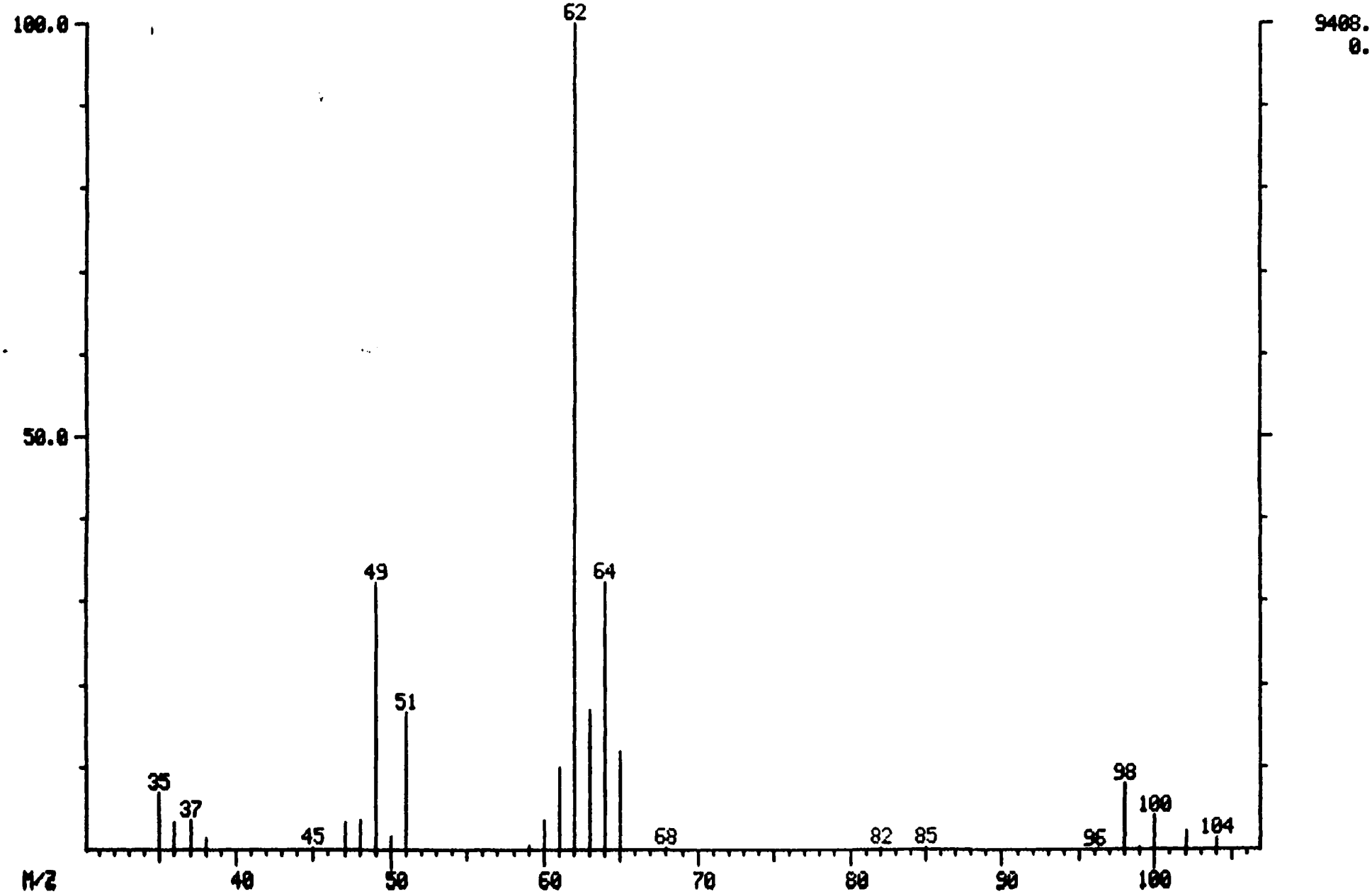
BASE M/Z: 83
RIC: 52672.



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

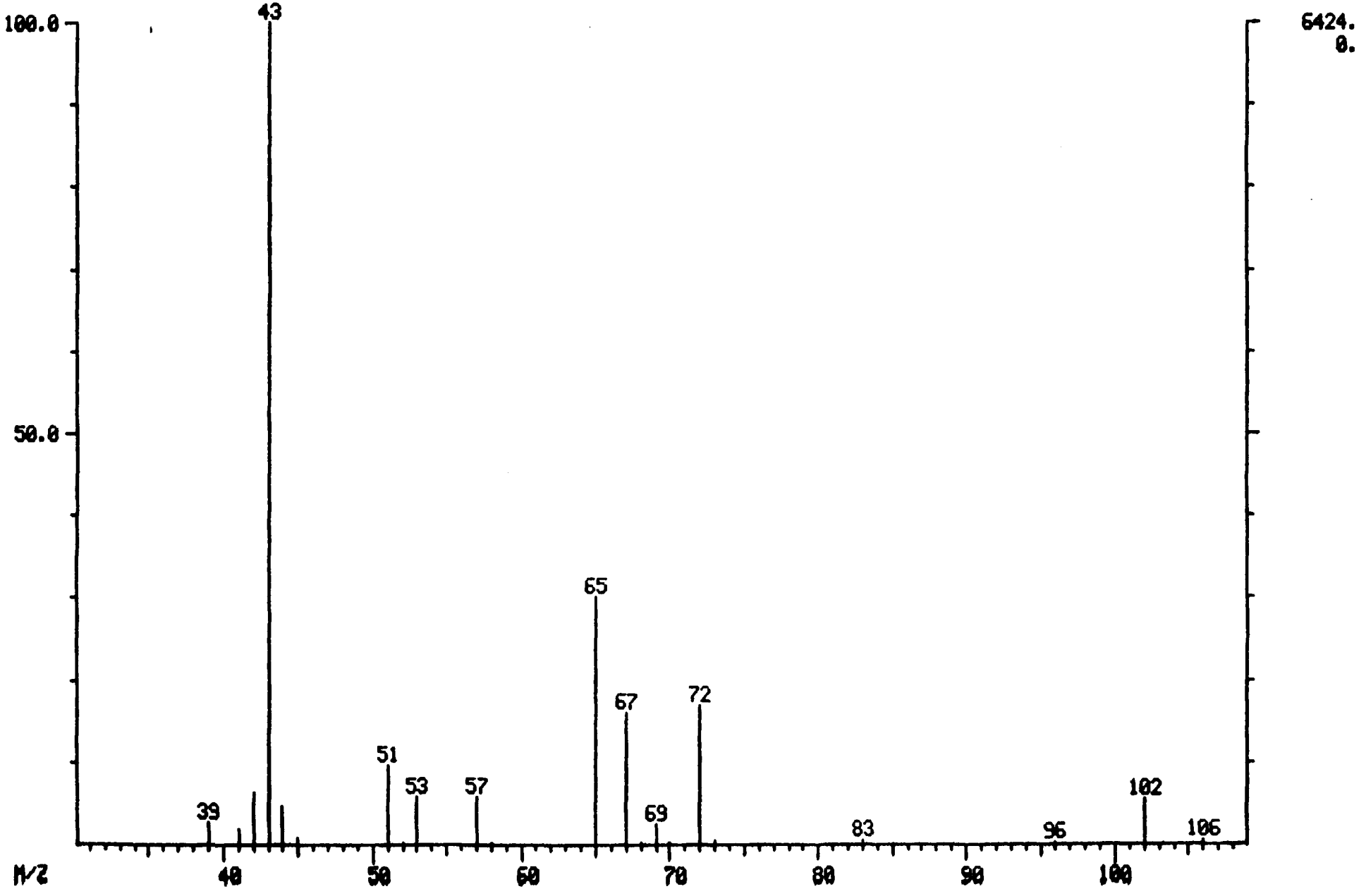
BASE M/Z: 62
RIC: 24896.



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

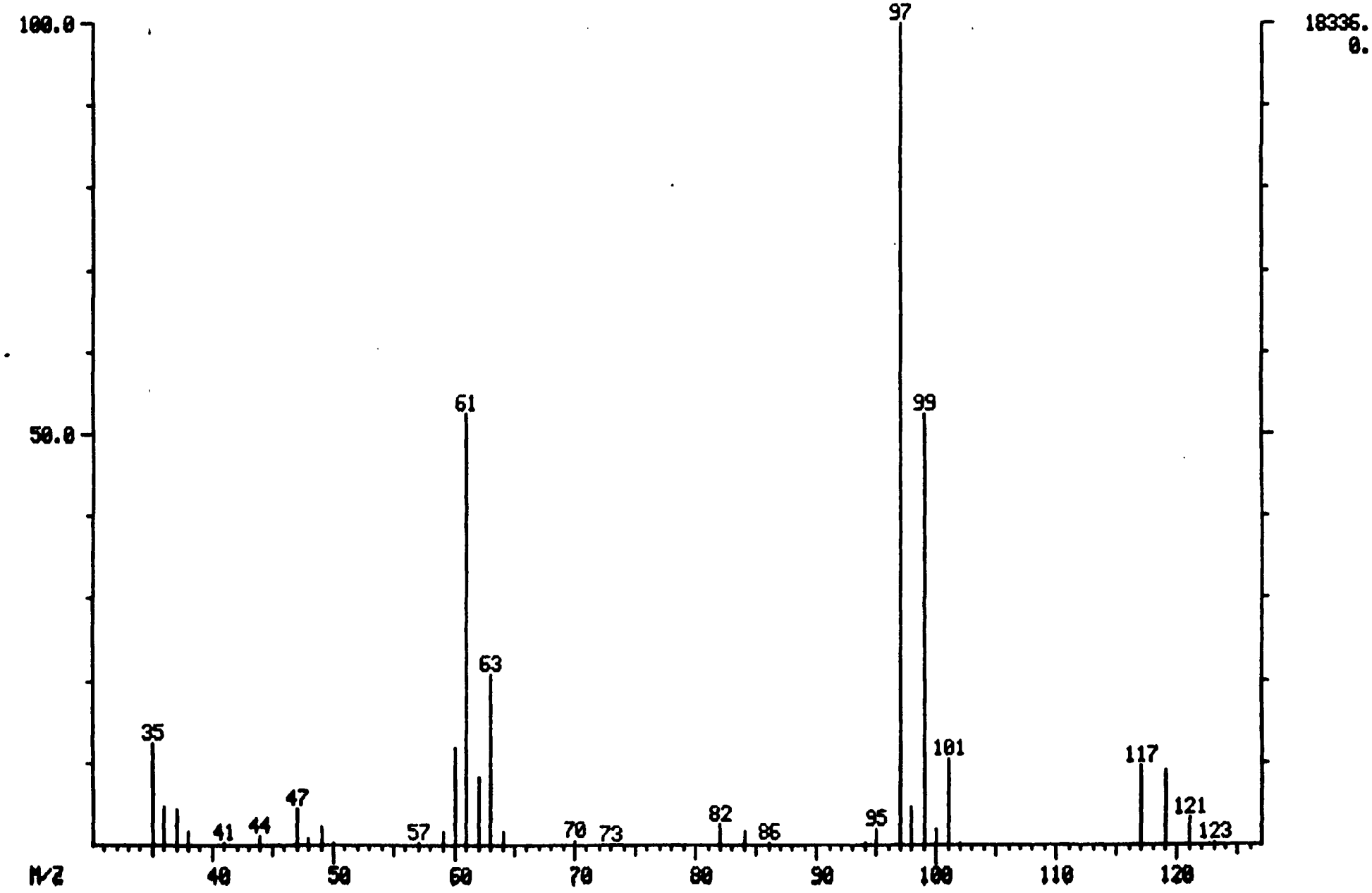
BASE M/Z: 43
RIC: 13632.



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

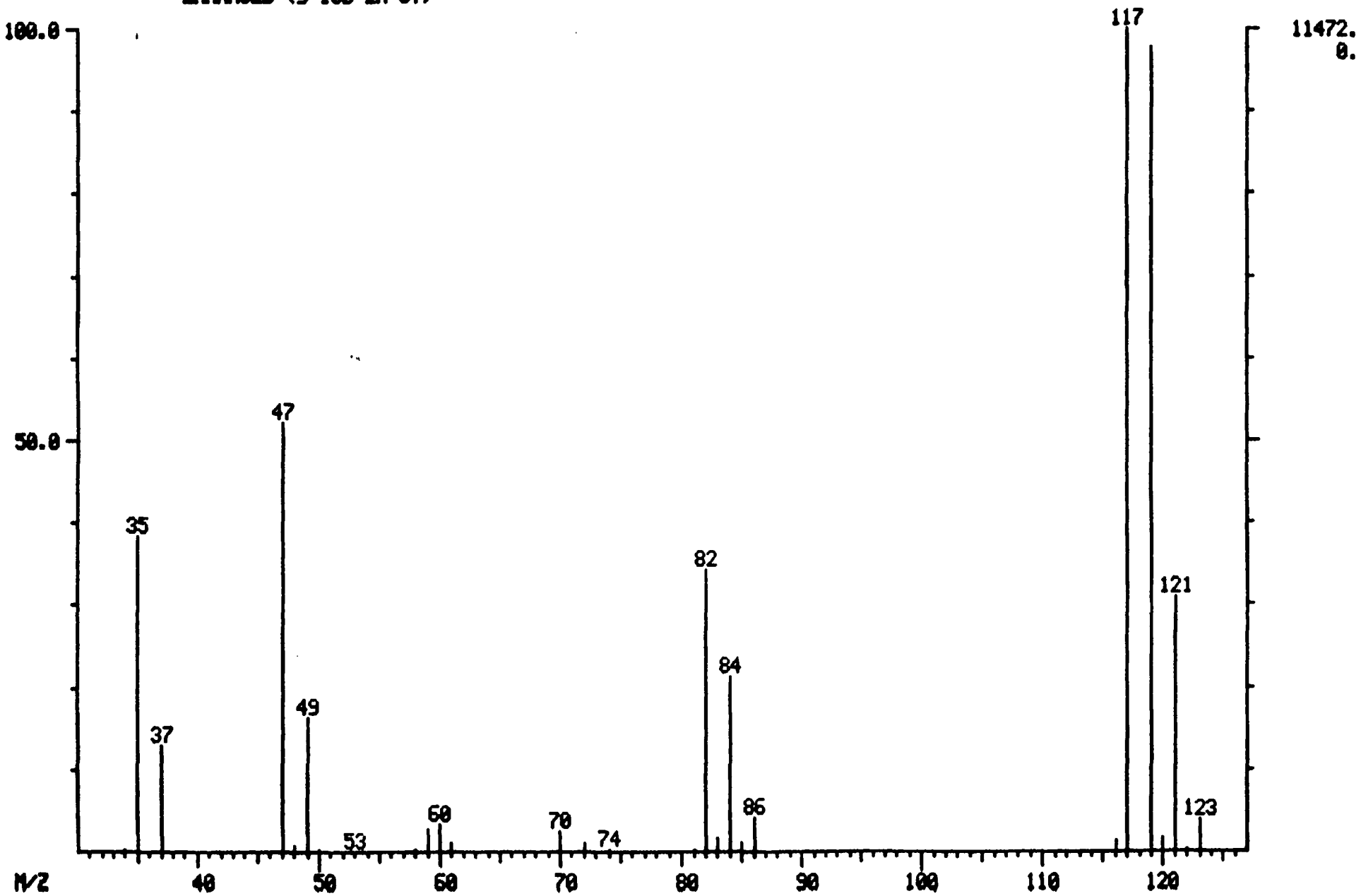
BASE M/Z: 97
RIC: 60352.



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

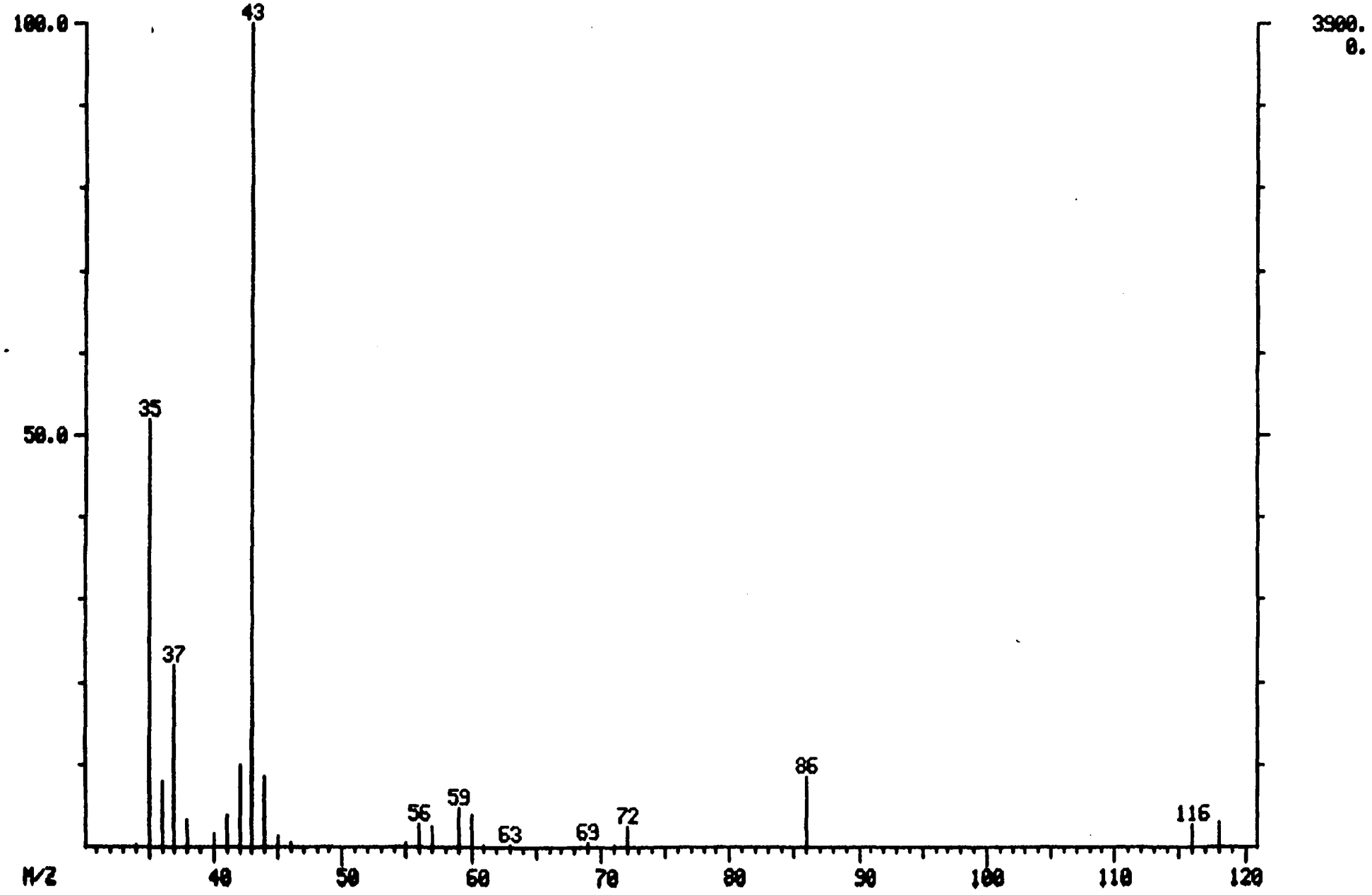
BASE M/Z: 117
RIC: 49408.



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 15B 2N 0T)

DATA: IC30504 #437
CALI: IC30504 #3

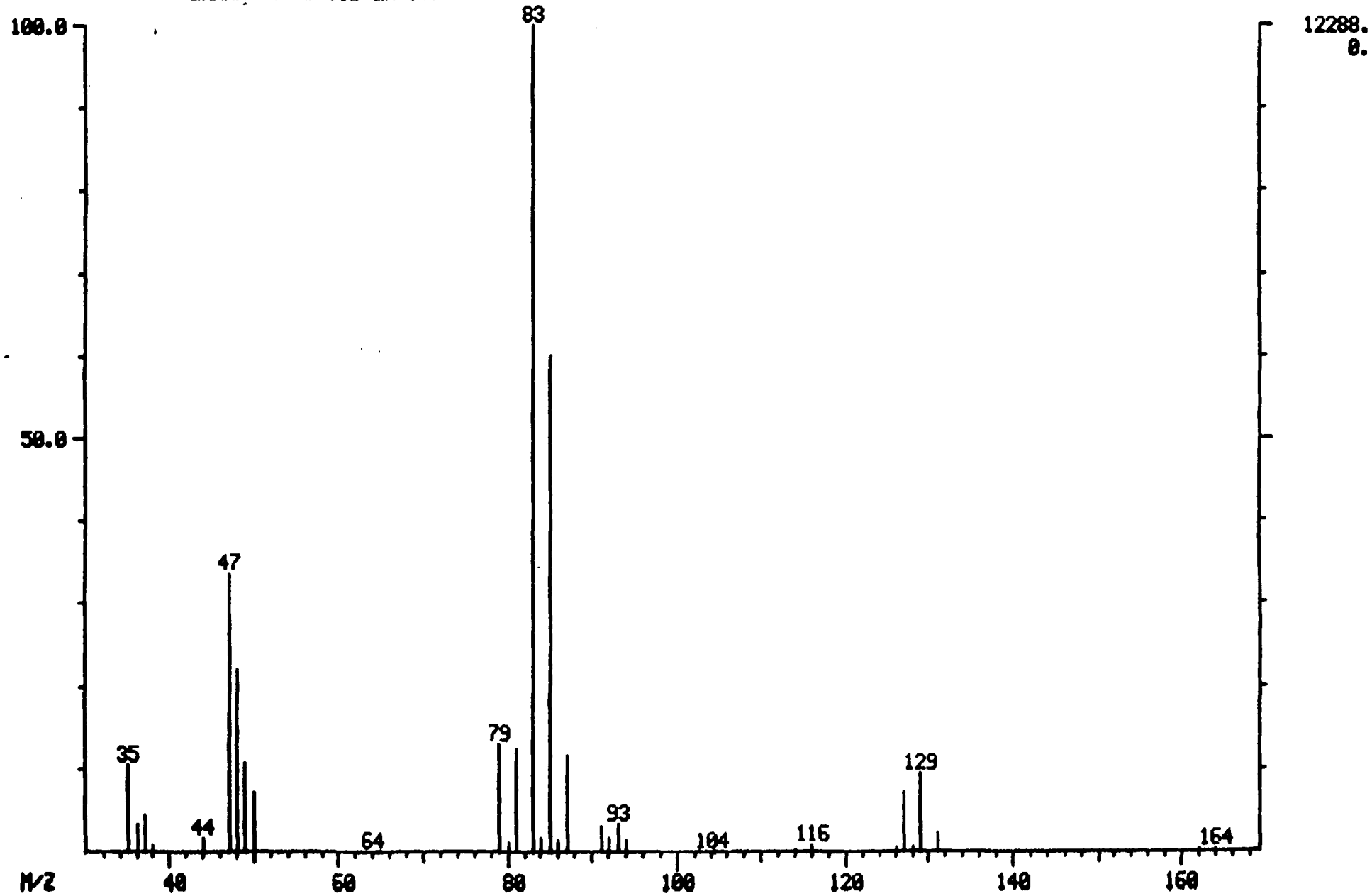
BASE M/Z: 43
RIC: 9552.



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

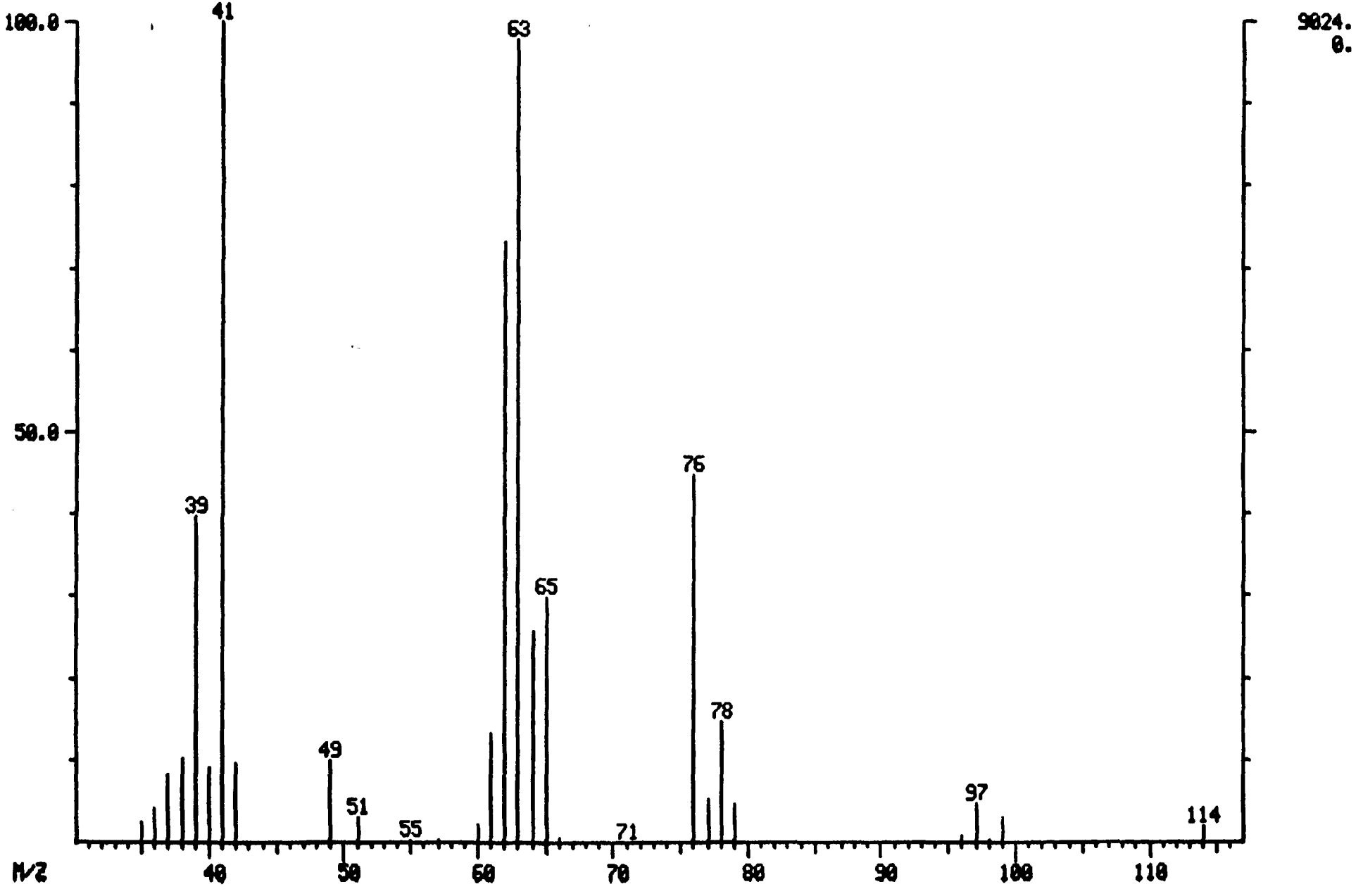
BASE M/Z: 83
RIC: 40000.



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

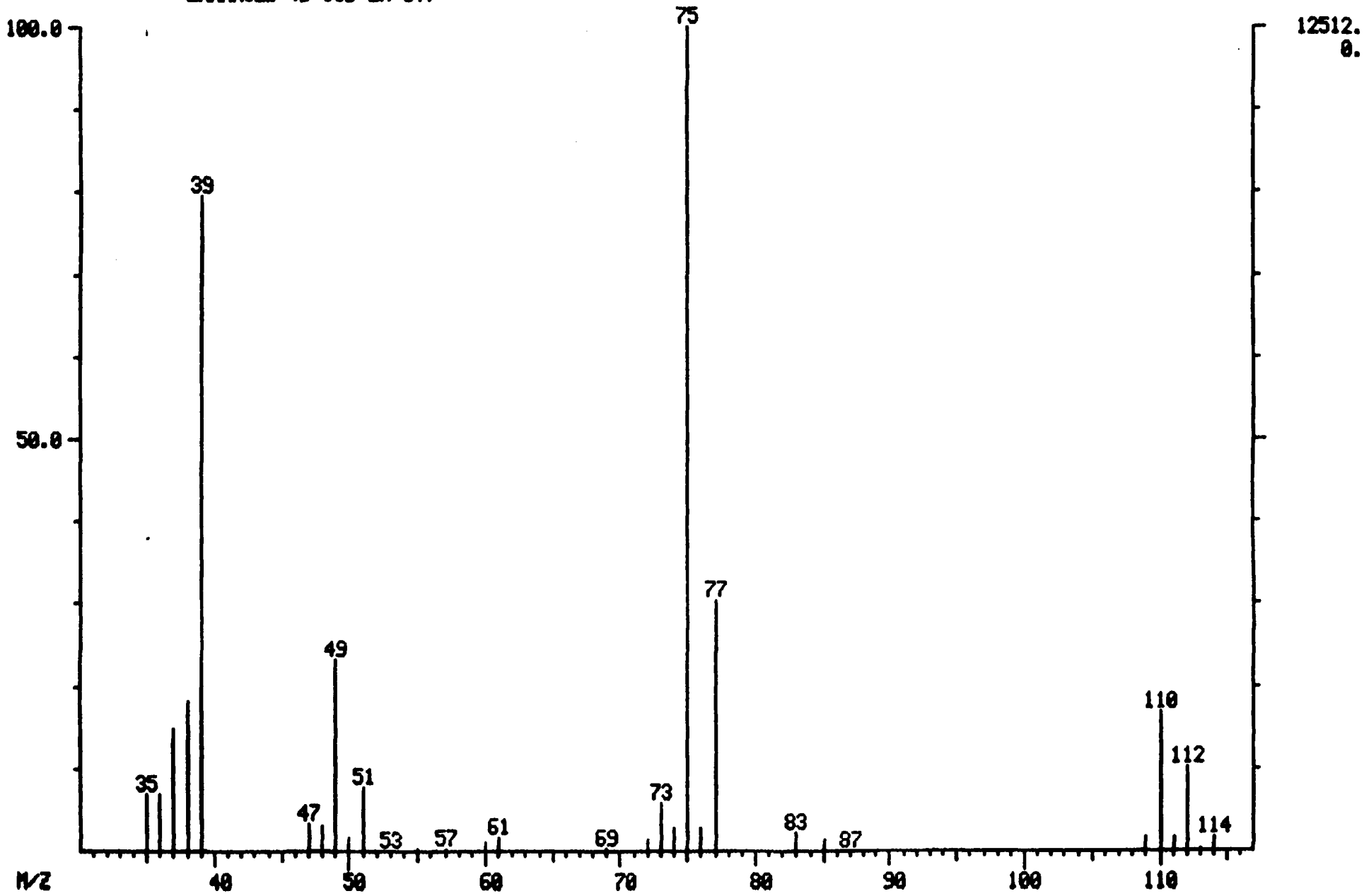
BASE M/Z: 41
RIC: 46976.



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

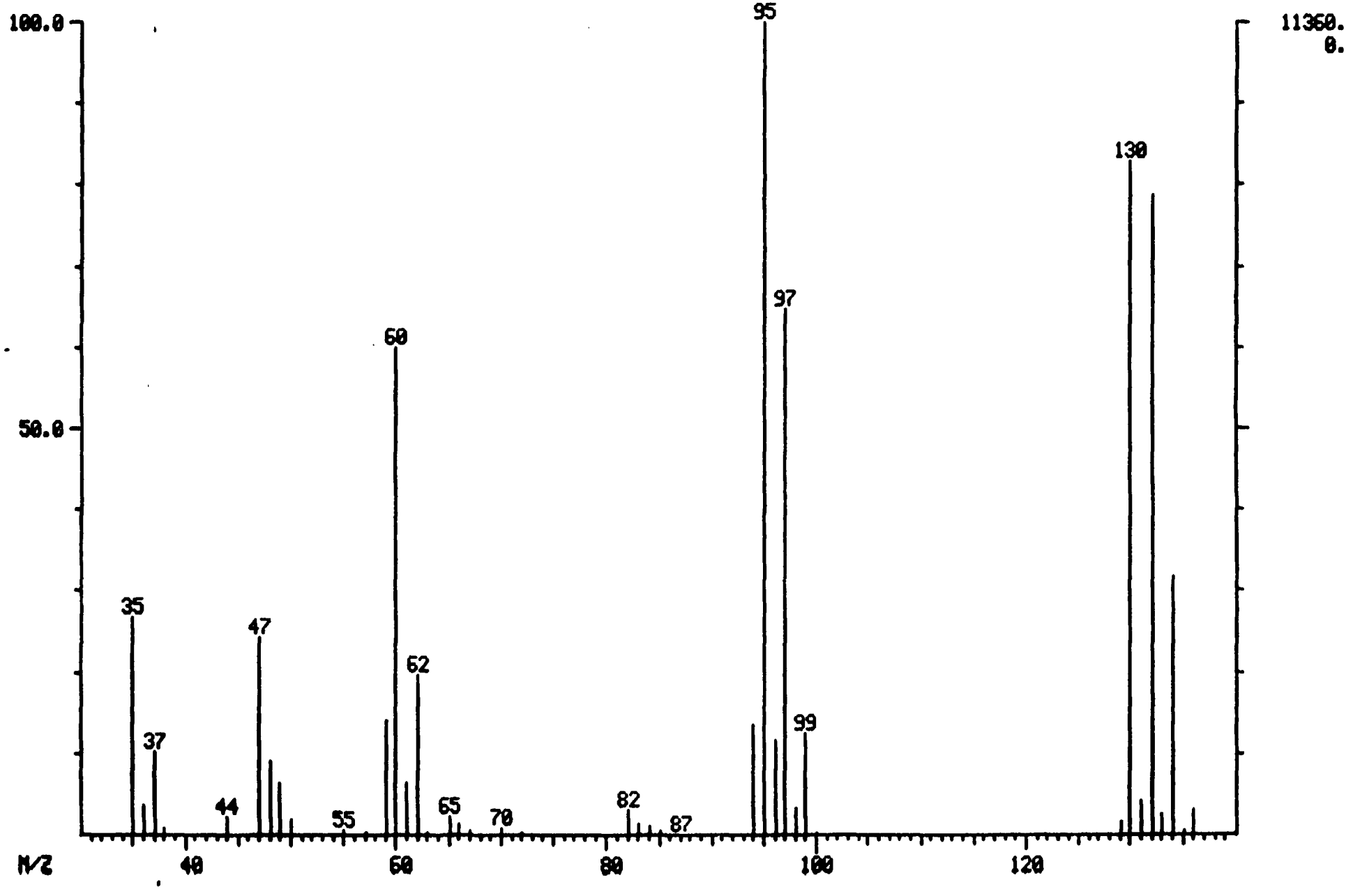
BASE M/Z: 75
RIC: 43712.



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

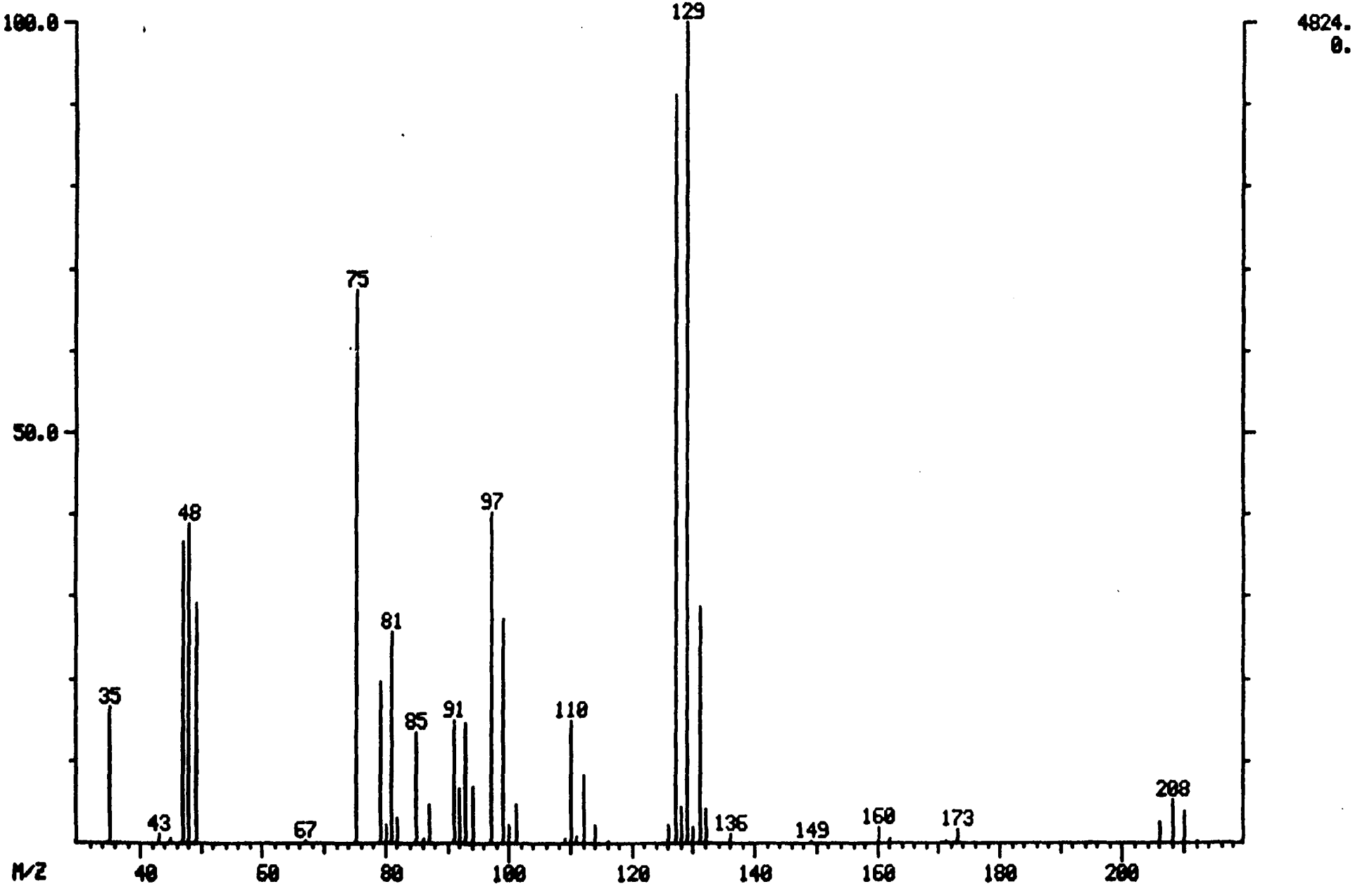
BASE M/Z: 95
RIC: 69248.



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

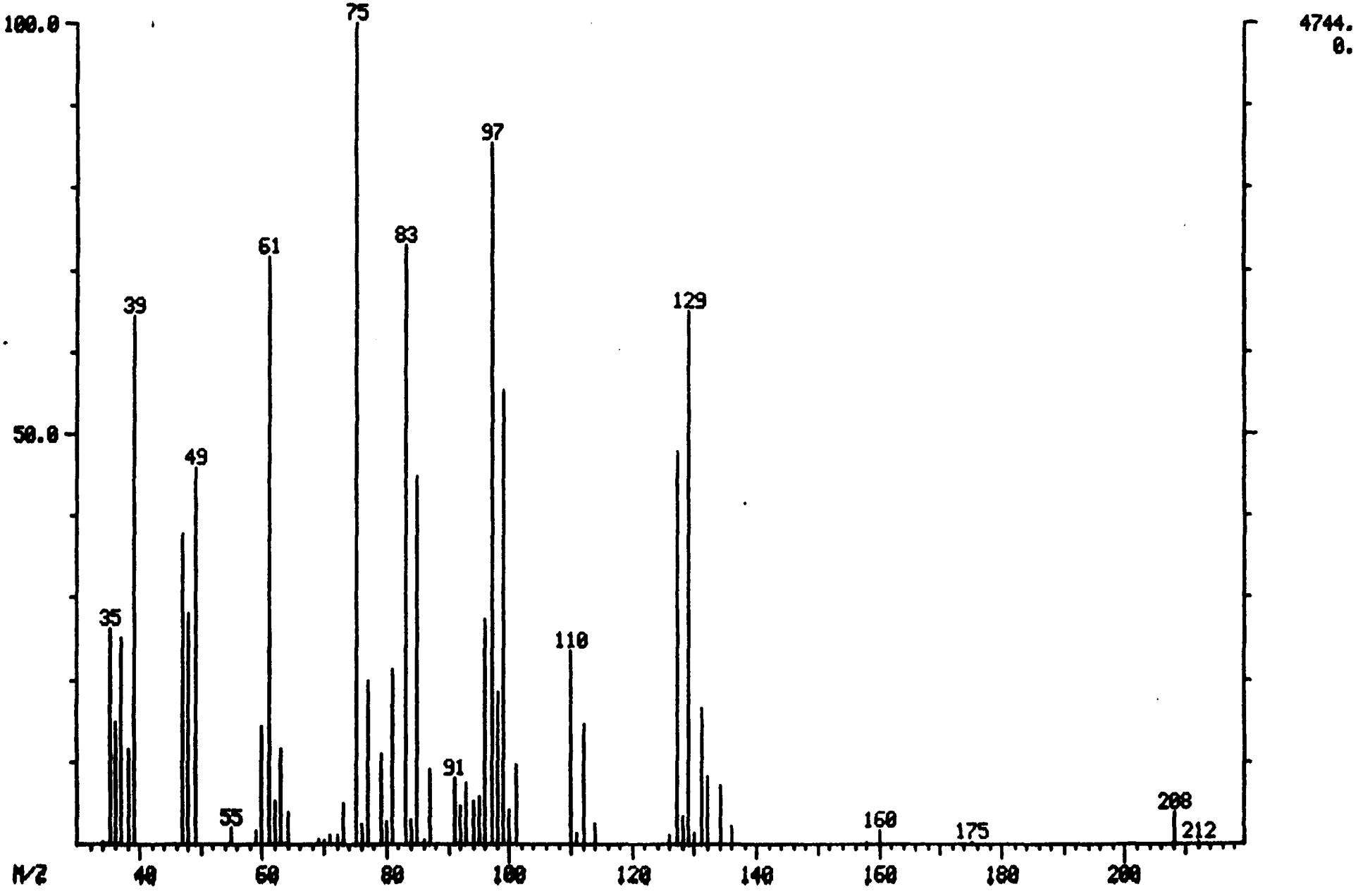
BASE M/Z: 123
RIC: 31648.



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

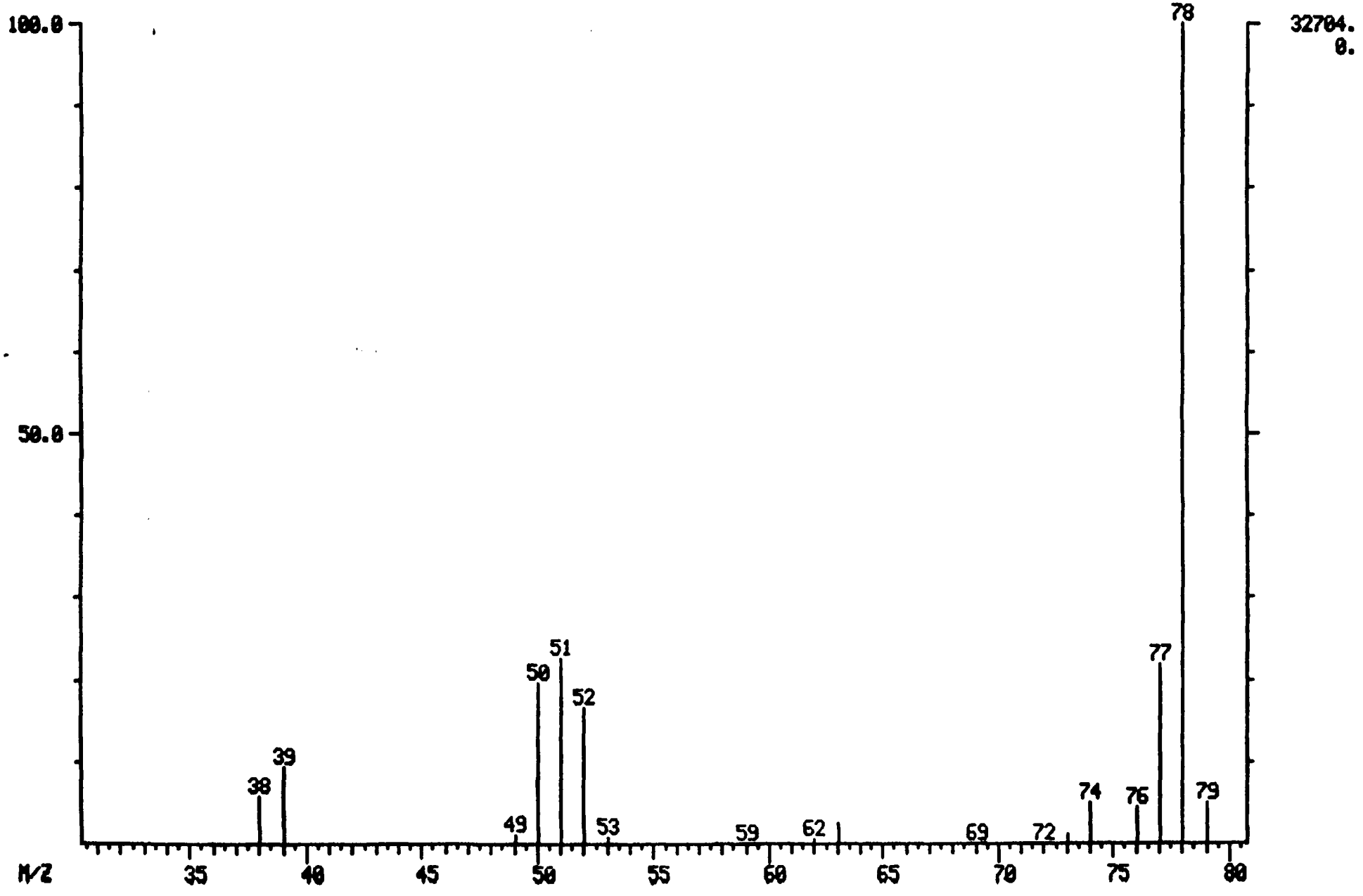
BASE M/Z: 75
RIC: 51840.



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

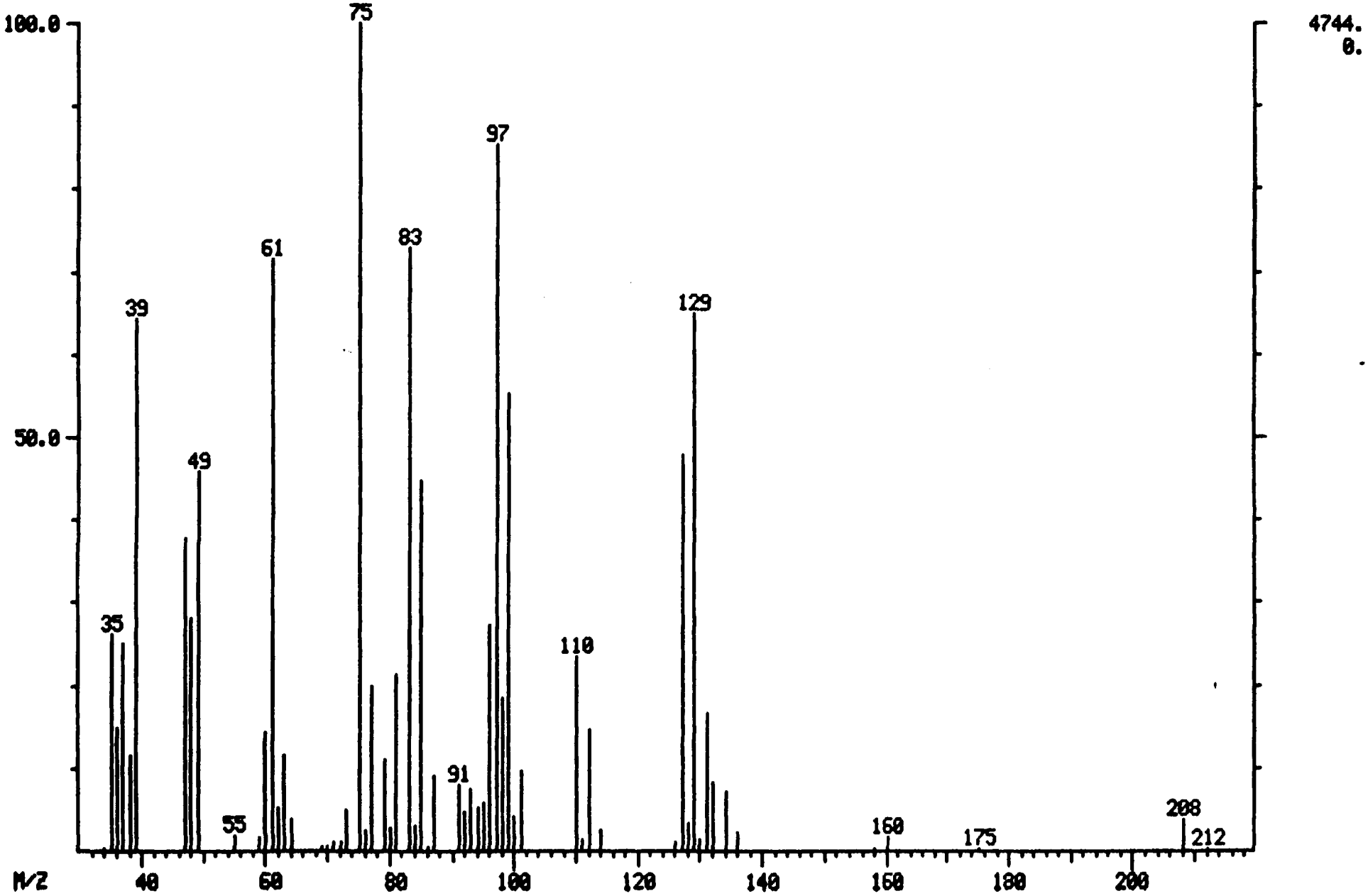
BASE M/Z: 78
RIC: 70912.



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

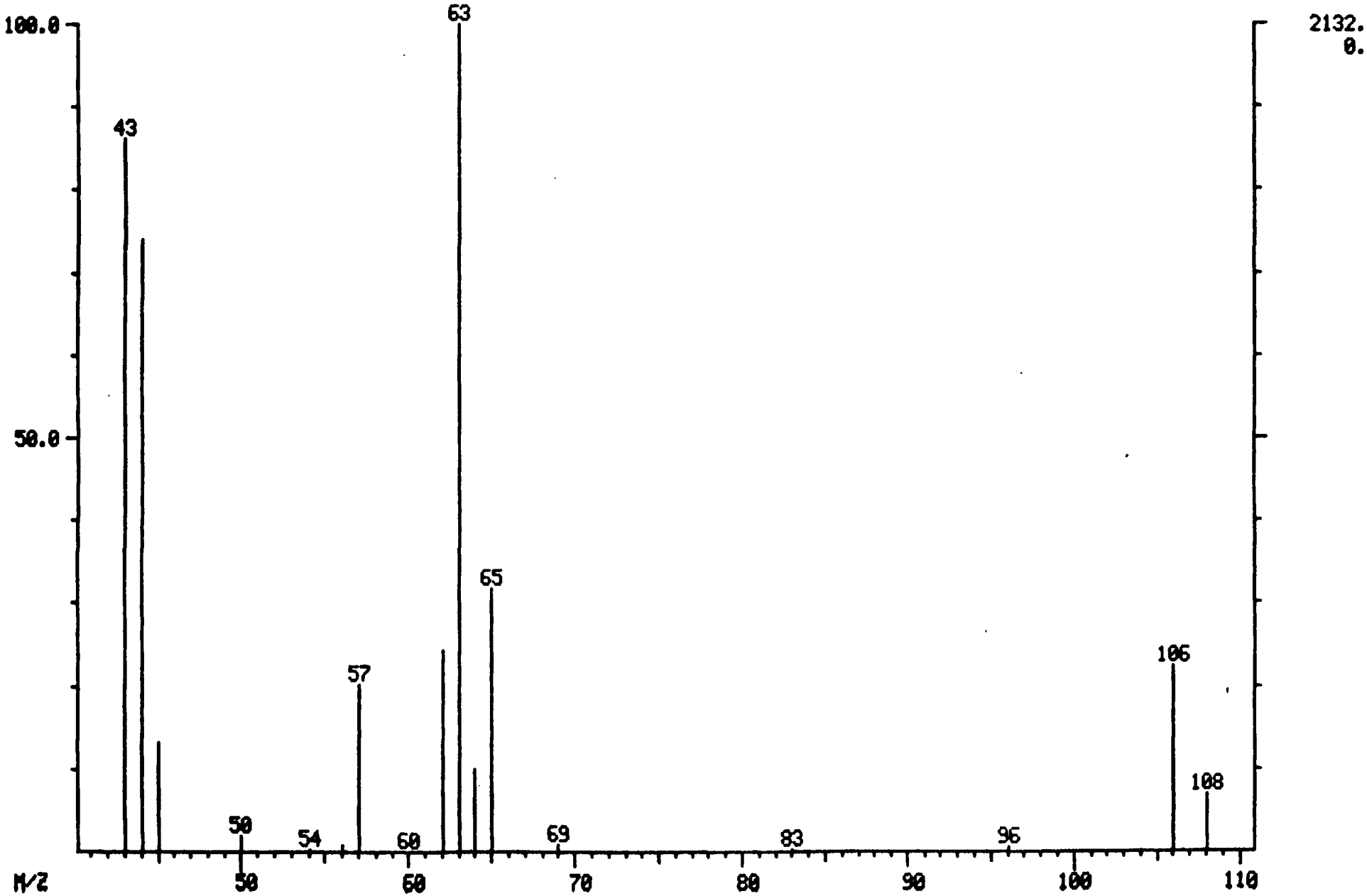
BASE M/Z: 75
RIC: 51840.



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

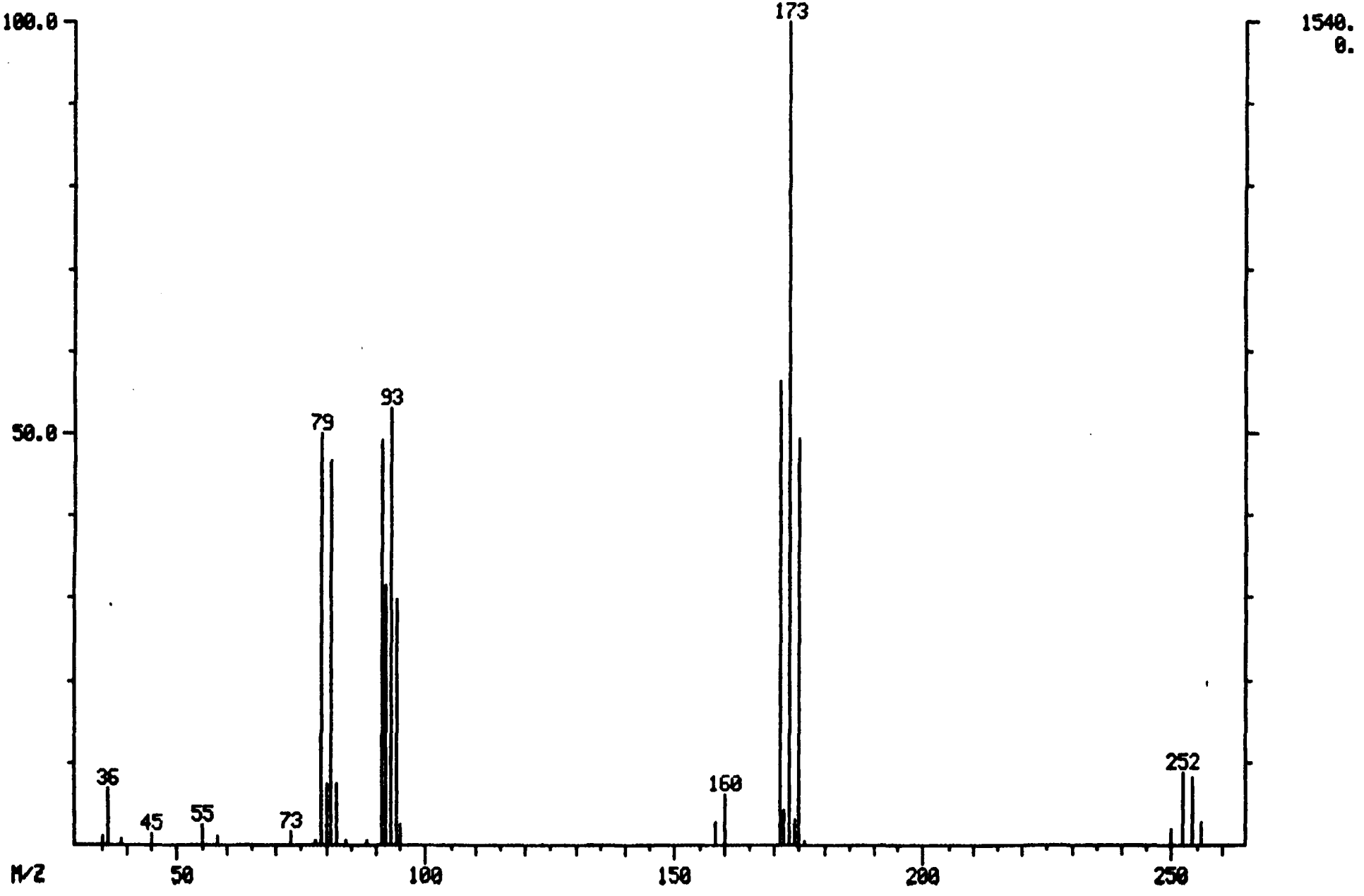
BASE M/Z: 63
RIC: 8400.



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

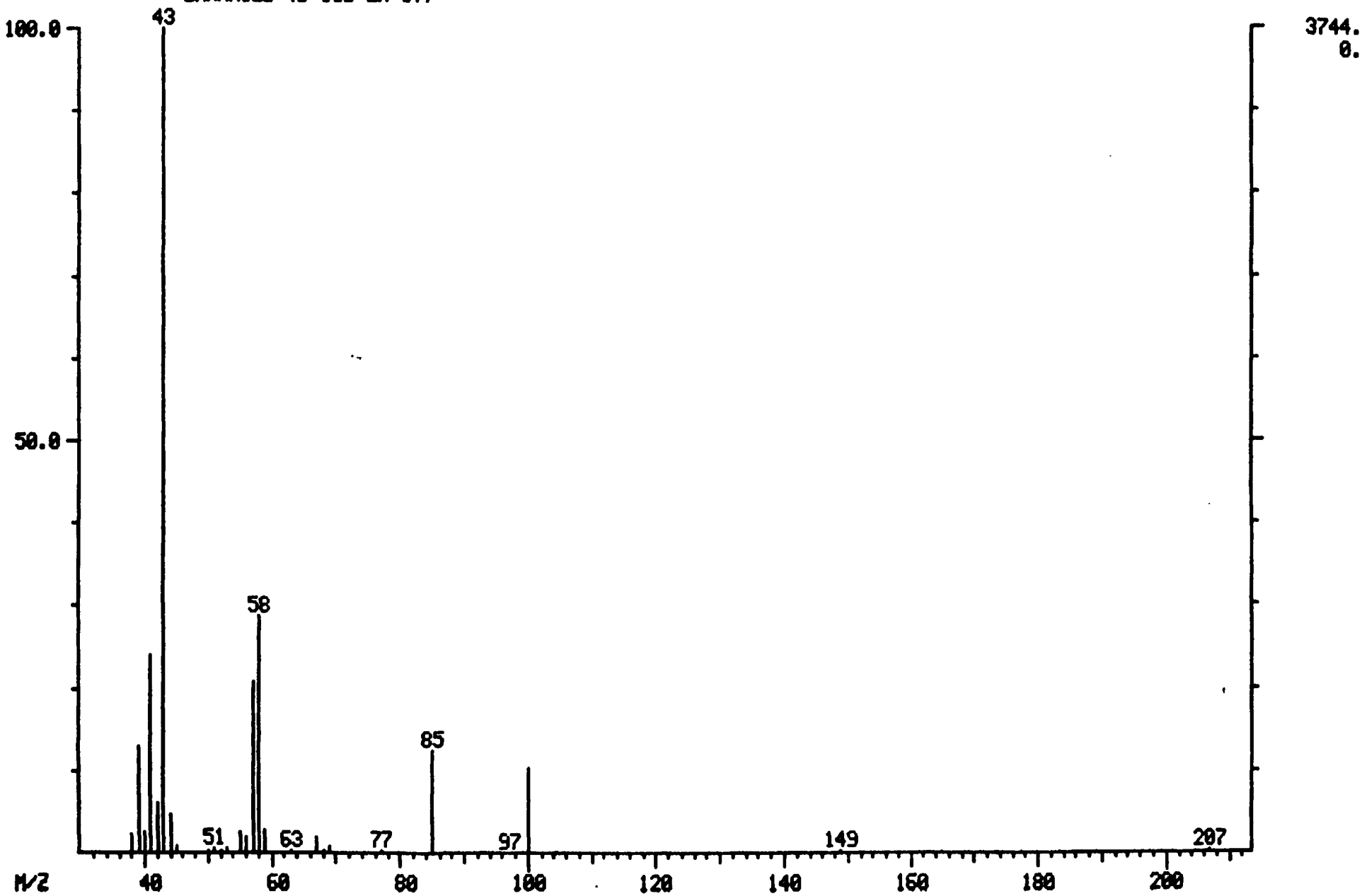
BASE M/Z: 173
RIC: 8304.



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

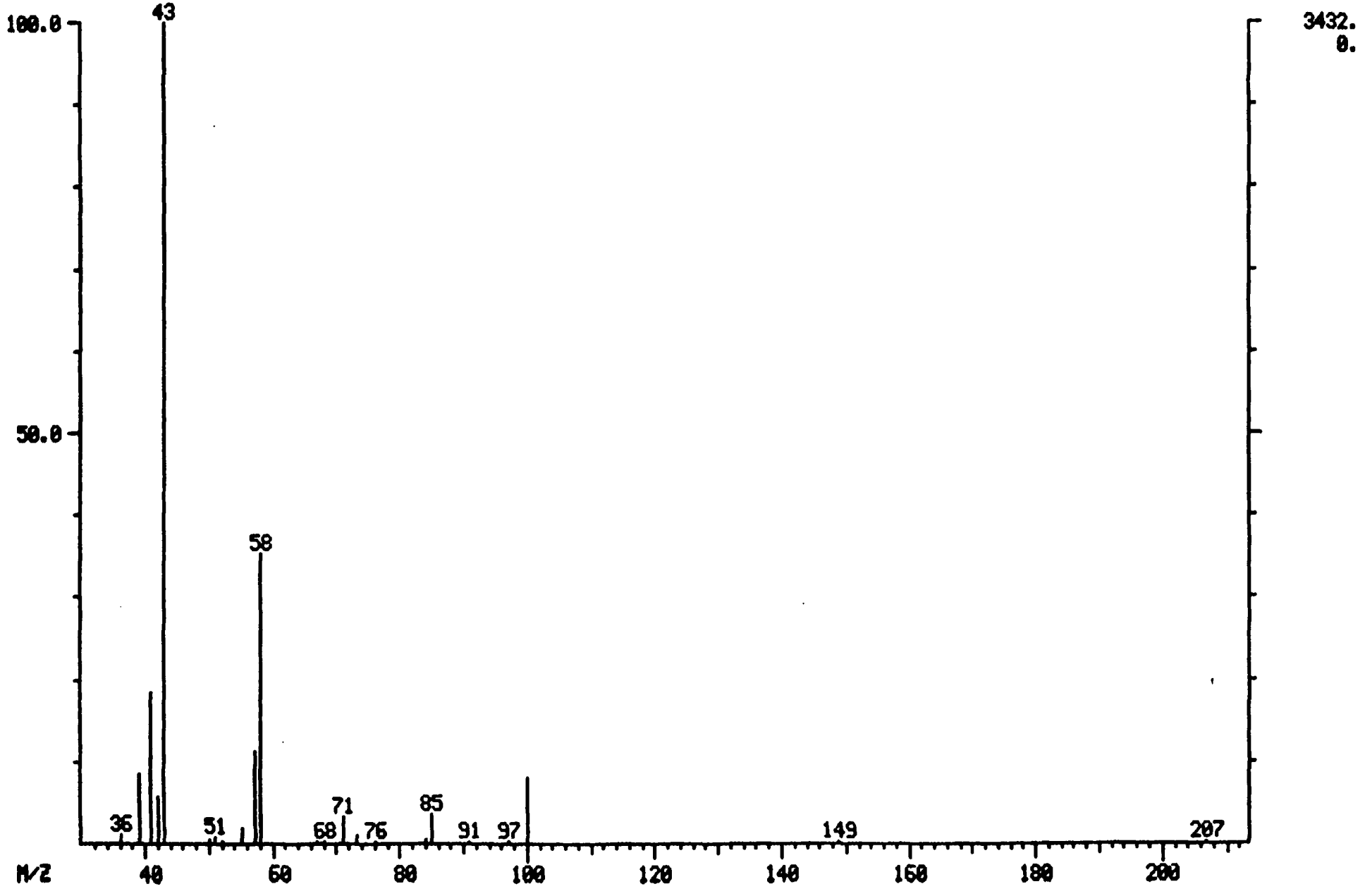
BASE M/Z: 43
RIC: 8976.



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

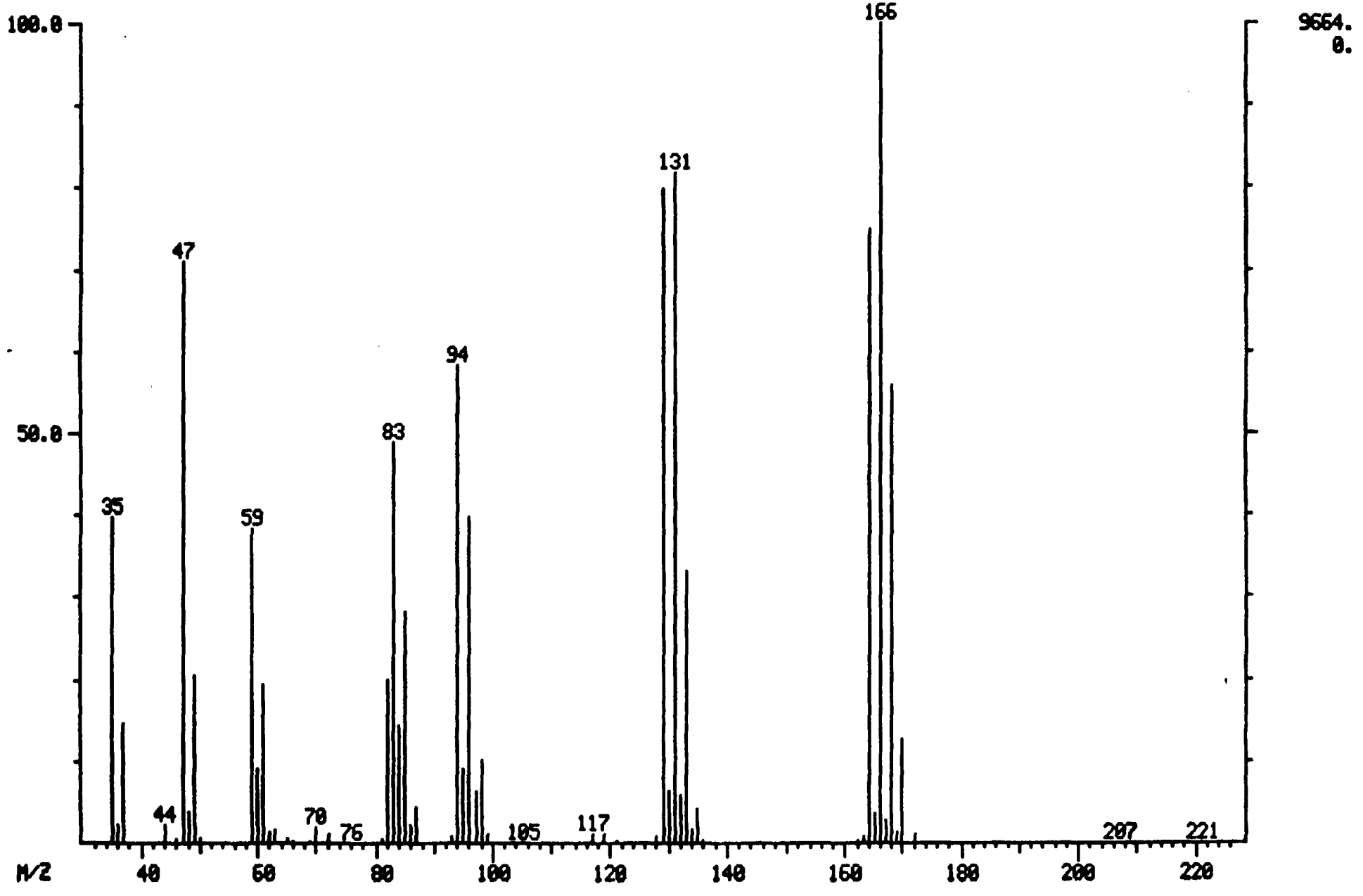
BASE M/Z: 43
RIC: 6960.



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

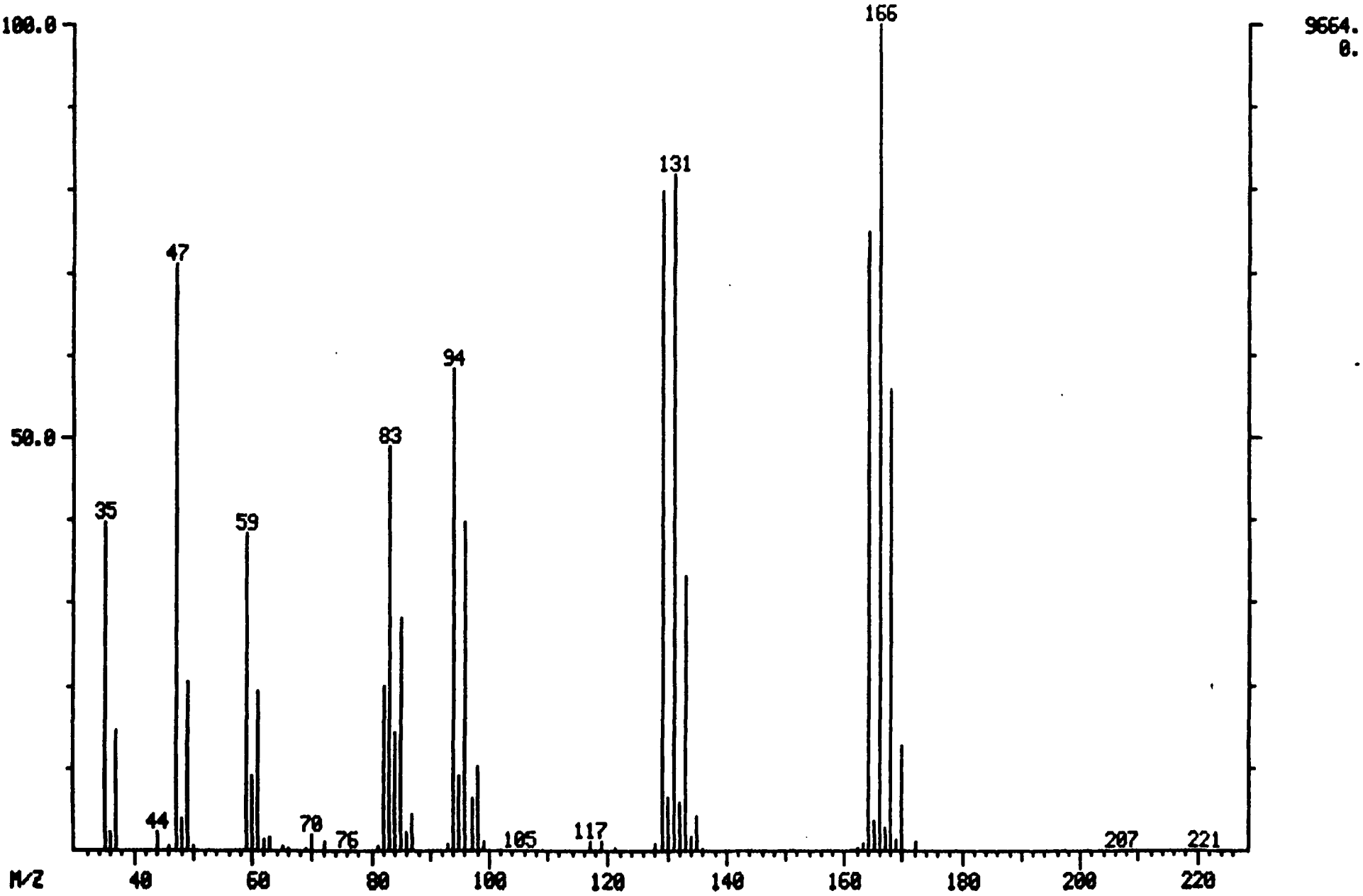
BASE M/Z: 166
RIC: 91264.



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

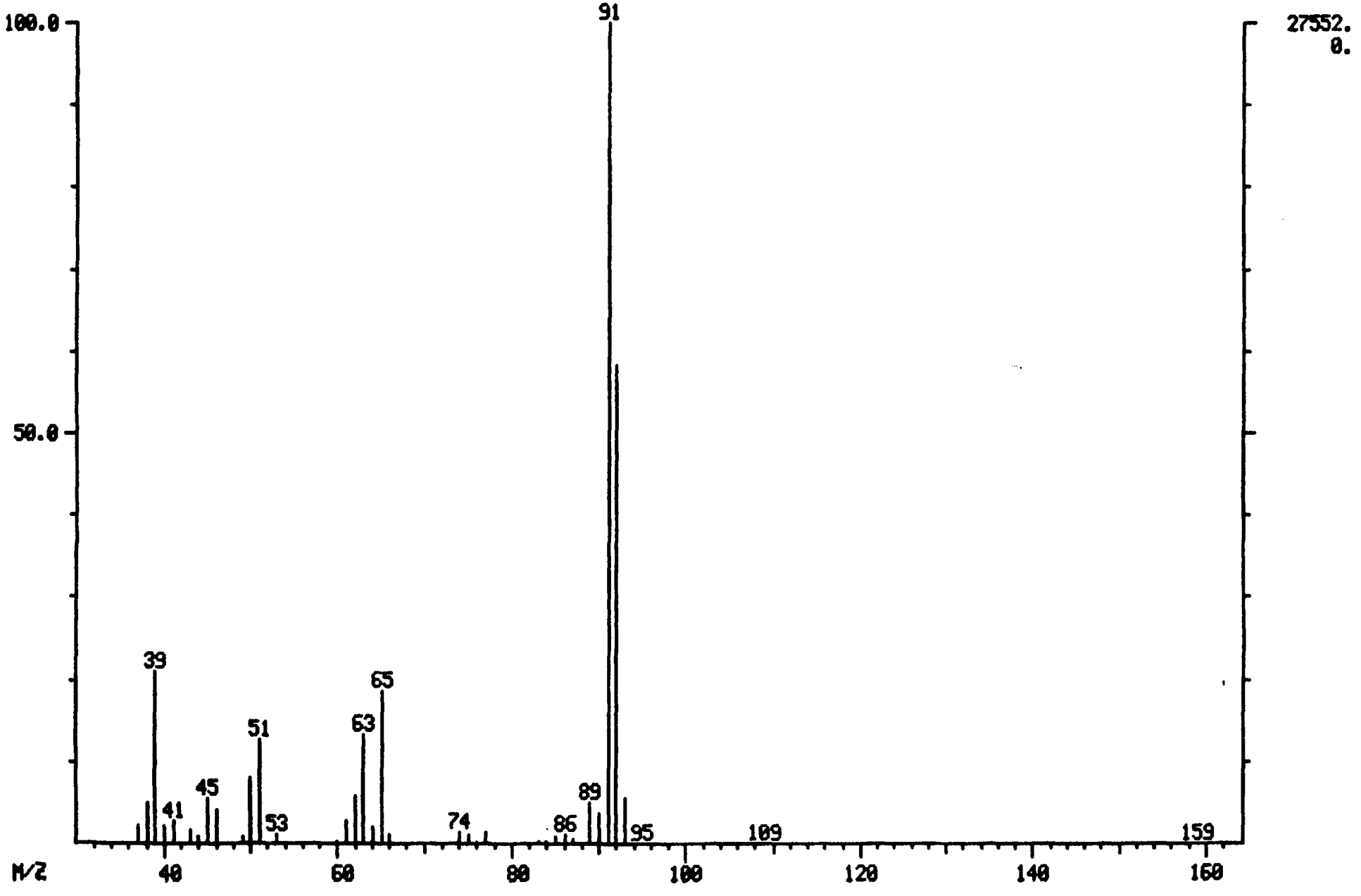
BASE M/Z: 166
RIC: 91264.



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

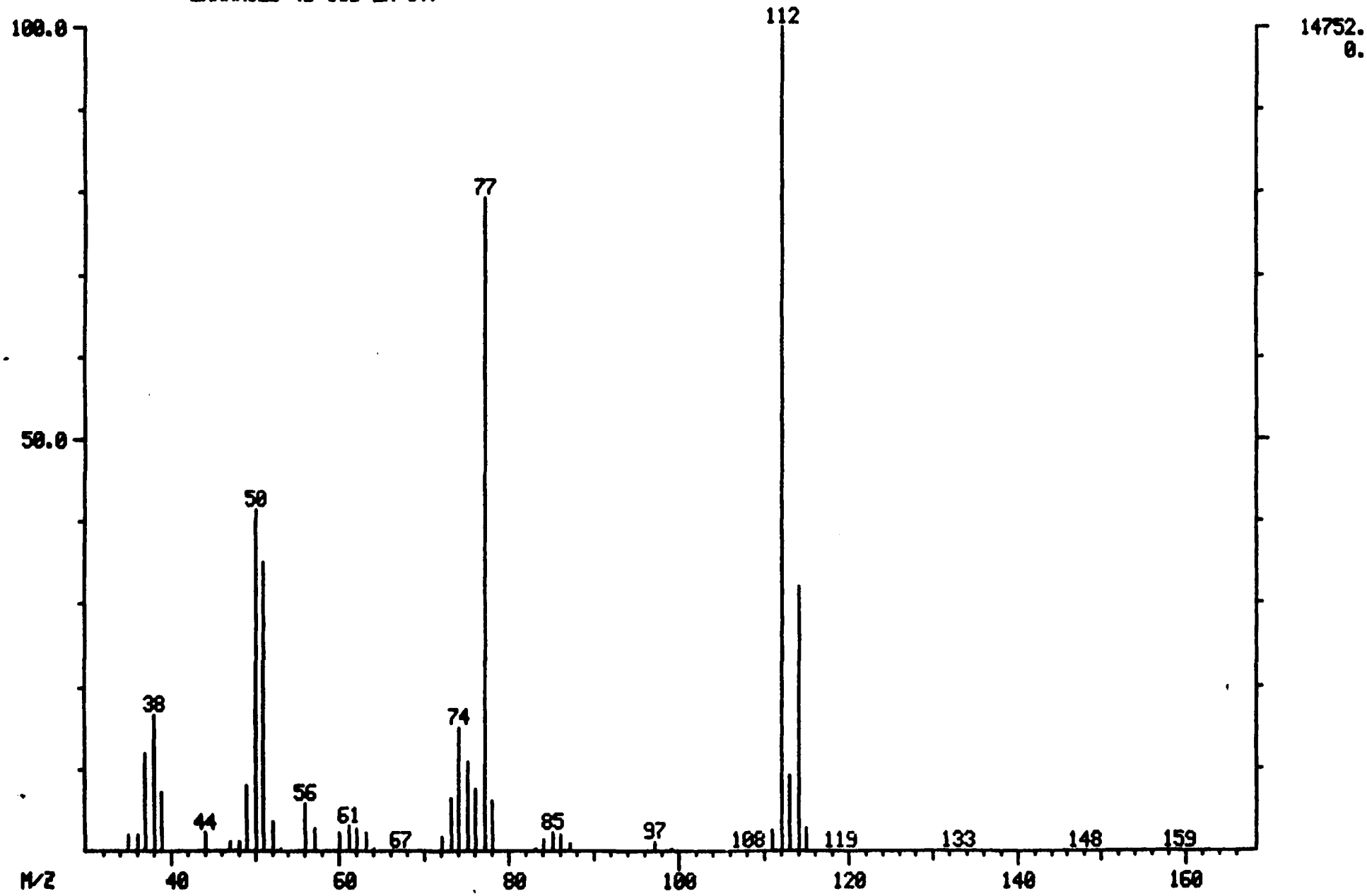
BASE M/Z: 91
RIC: 80384.



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

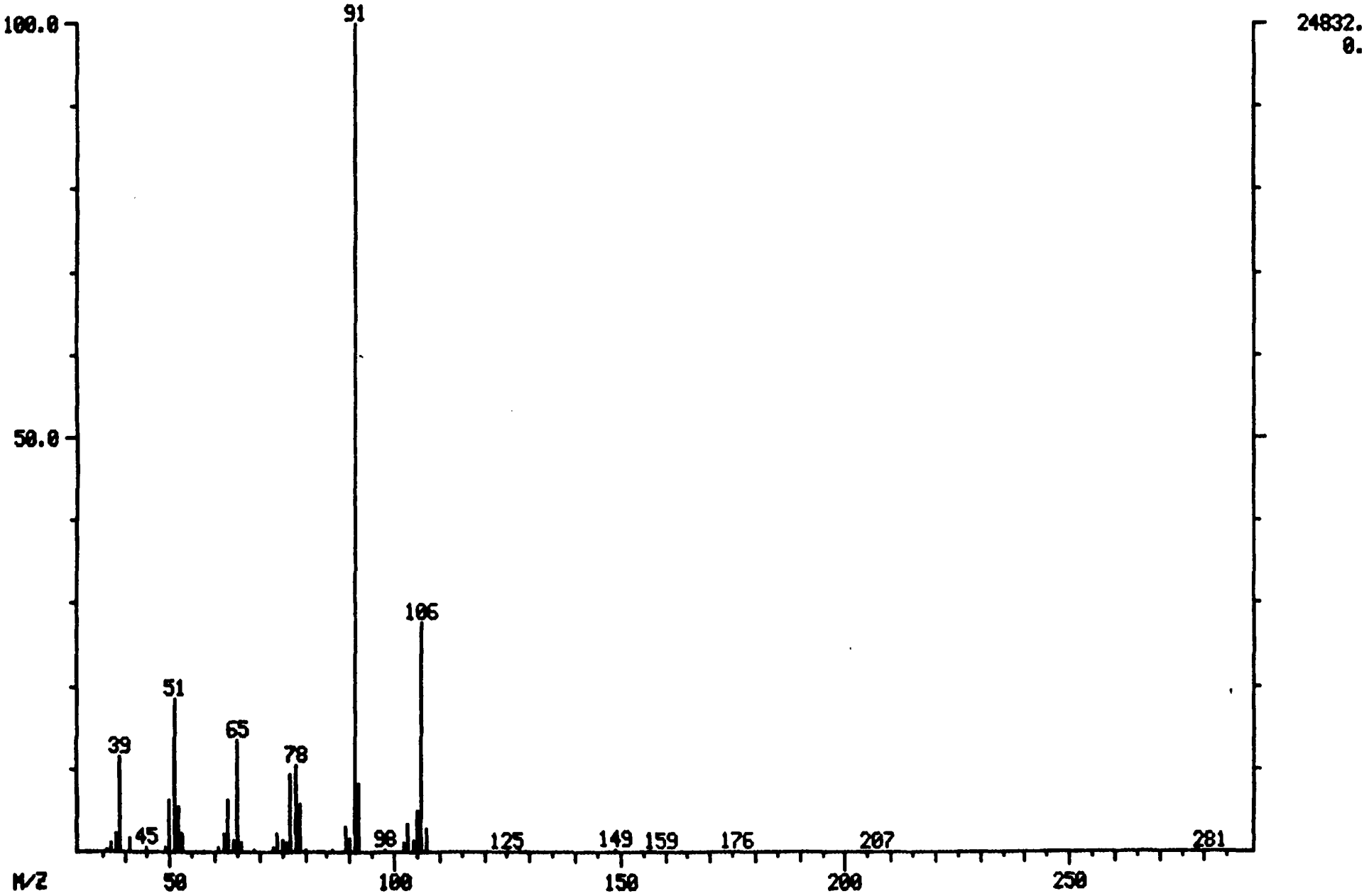
BASE M/Z: 112
RIC: 63808.



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

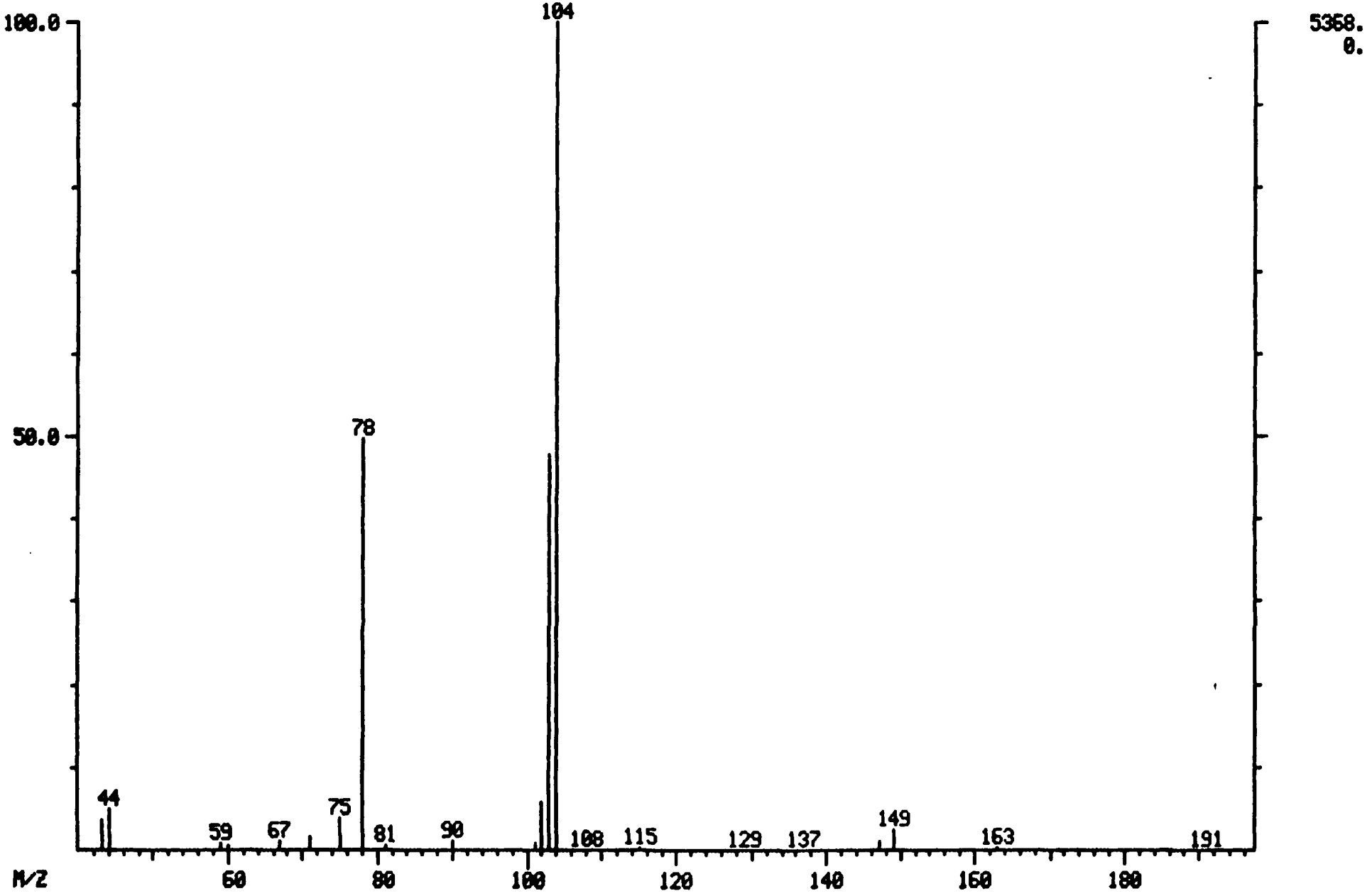
BASE M/Z: 91
RIC: 65280.



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

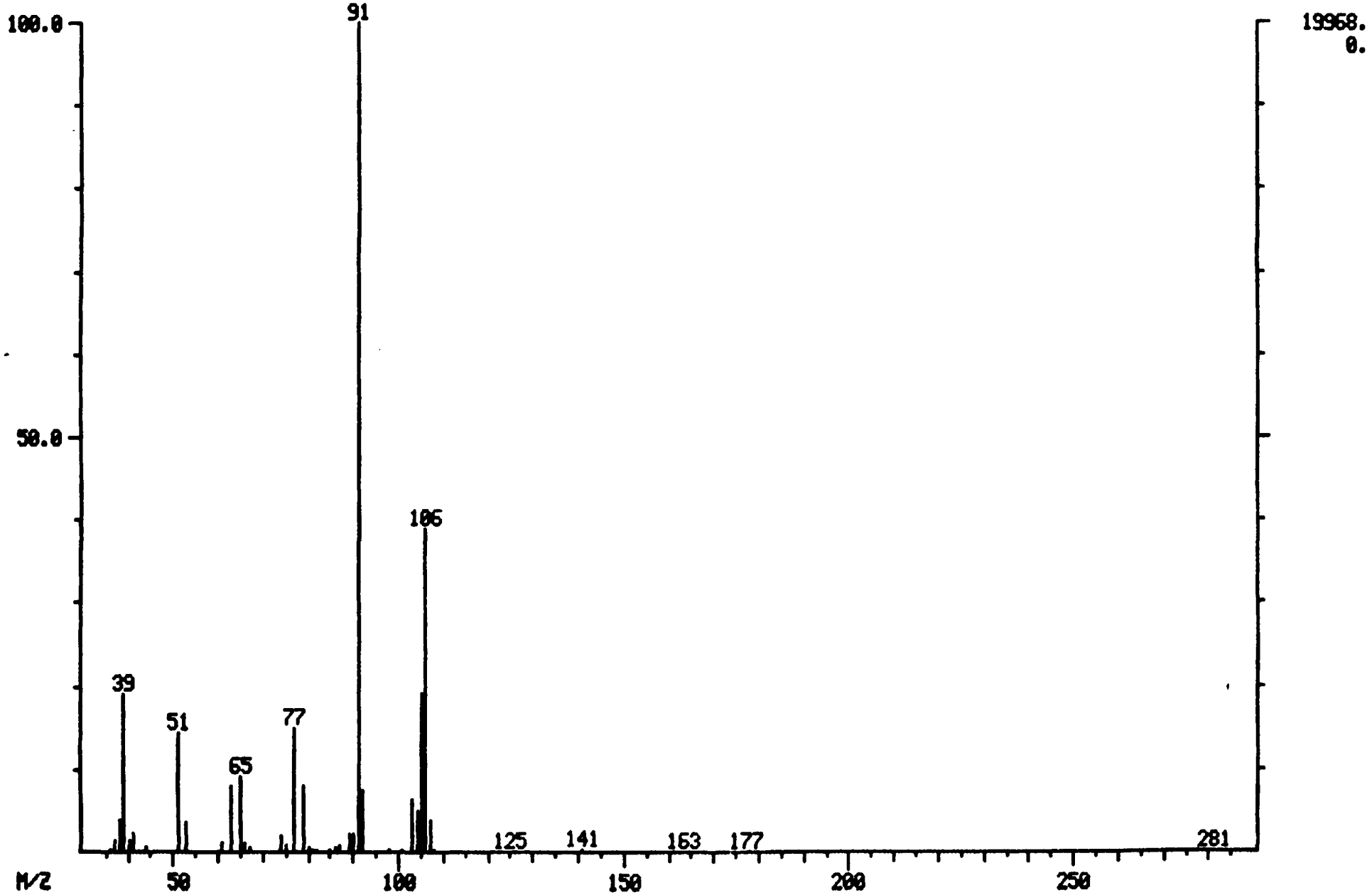
BASE M/Z: 104
RIC: 12144.



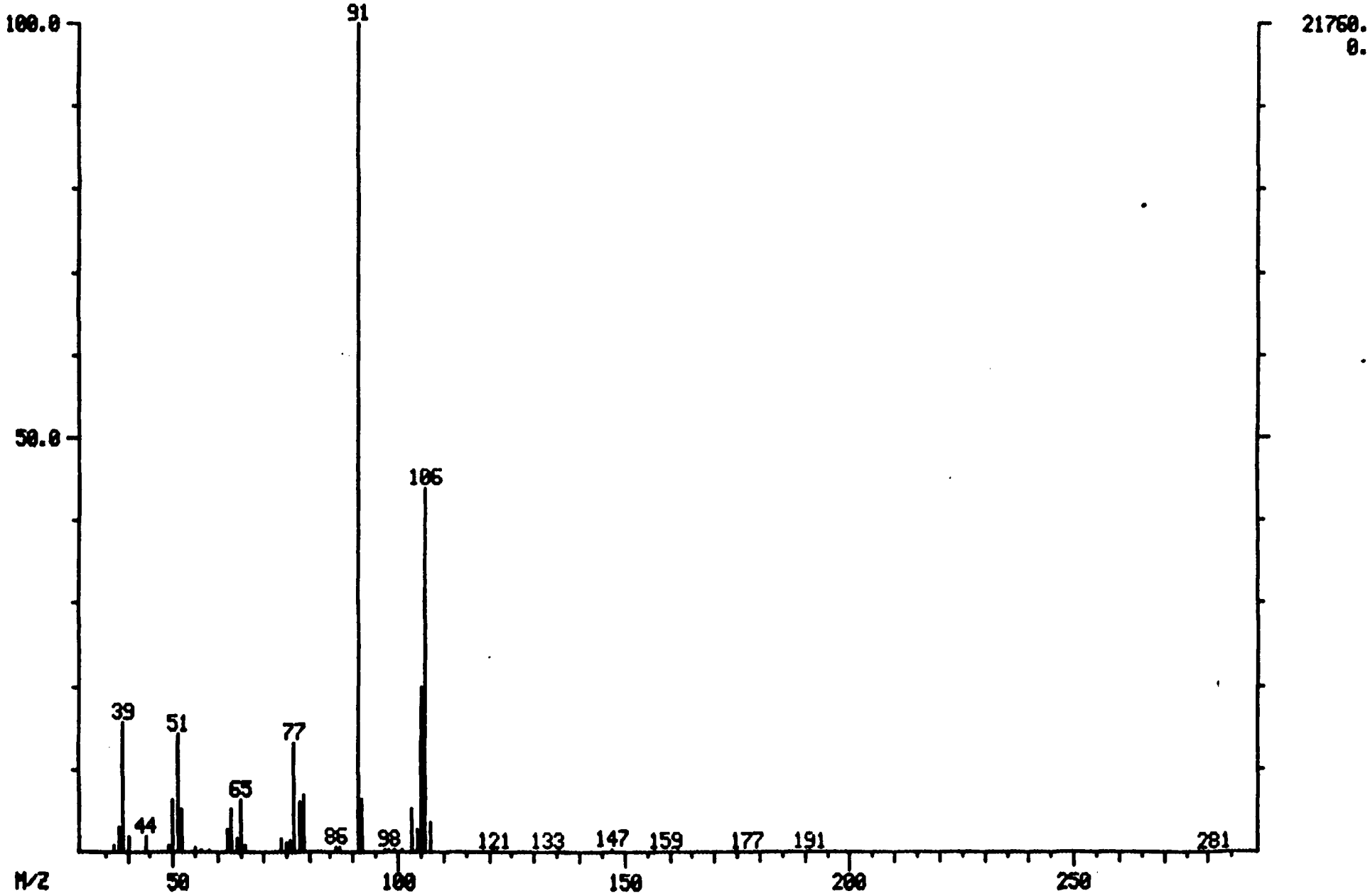
MASS SPECTRUM
05/04/89 12:56:00 + 31:50
SAMPLE: CLP,0504,,IC30504,L,W,,V,IC-100,
CONDS.: 45'(3MIN) TO 220'@ 8'/MIN
TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

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.