

Millcreek - KM

ORIGINAL

(red) 115438

3308 East Chapel Hill/Nelson Highway  
P.O. Box 12652  
Research Triangle Park, NC 27709

Telephone: 919-549-8263  
800-334-8525

# Mead CompuChem

June 14, 1983

U.S. Environmental Protection Agency  
HWI/Sample Management Office  
Post Office Box 818  
Alexandria, Virginia 22313

THI

Attention: Mr. Richard Thacker  
Deputy Project Manager

Subject: Report of Quality Control Data - EPA Contract 68-01-6608

Dear Mr. Thacker:

Enclosed herewith are the results of analytical work performed in accordance with the referenced contract.

This report includes results associated with the analysis of the duplicate matrix spike results. Data contained herein constitutes the quality control associated with EPA Case Number 1439 received by Mead CompuChem 12/5/83.

If you have any questions regarding this package, please contact me at 1/800/334-8525 or 919/549-8263.

Very Truly yours,

*Richard J. Bloom*

Rebecca J. Siebert, PhD  
Program Manager

RJS/dt

cc: Warren Arrington

NOTE: Quality Control information contained in this report applies to:

EPA Numbers: See attachment

CC Numbers:

RECEIVED

JUN 16 1983

NUS CORPORATION  
REGION III

SENT TO \_\_\_\_\_

AR101570

1439

**ORIGINAL**

(red)

EPA NUMBER

COMPUCHEM NUMBER

C2342  
C2343  
C2344  
C2345  
C2346  
C2347  
C2348  
C2349  
C2350  
C2351  
C2352

23888  
23889  
23890  
23891  
23892  
23893  
23894  
23895  
23896  
23897  
24094

AR101571

MEAD COMPUTCHEM DATA: GH025621A16

SCANS 3750 TO 3810

1554.

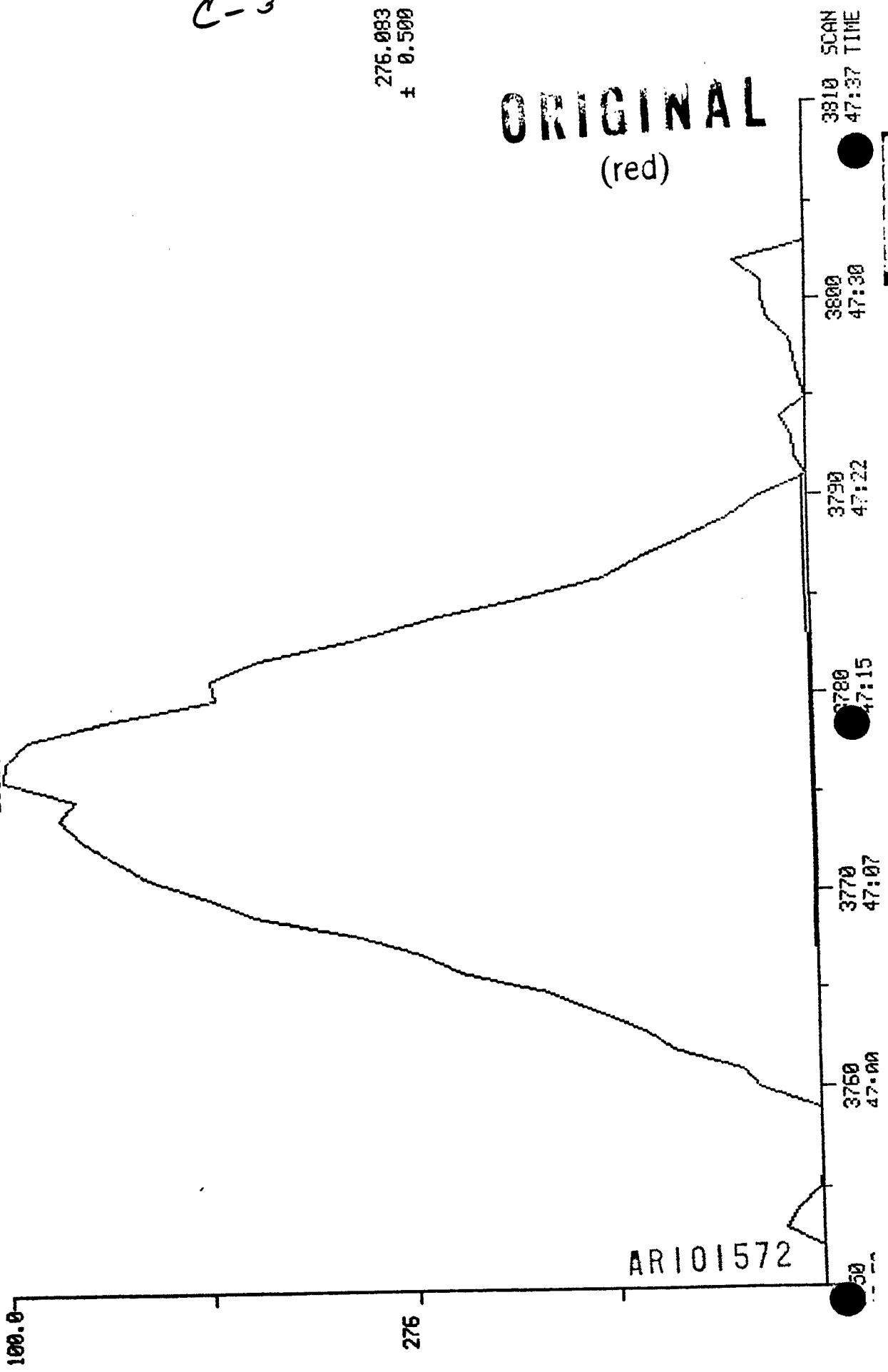
C-3

276.083  
± 0.500

ORIGINAL  
(red)

MASS CHROMATOGRAM  
01/26/83 16:27:00  
SAMPLE: 1.0 UL F50C SAMPLE 25621

3776  
1549.  
25865.

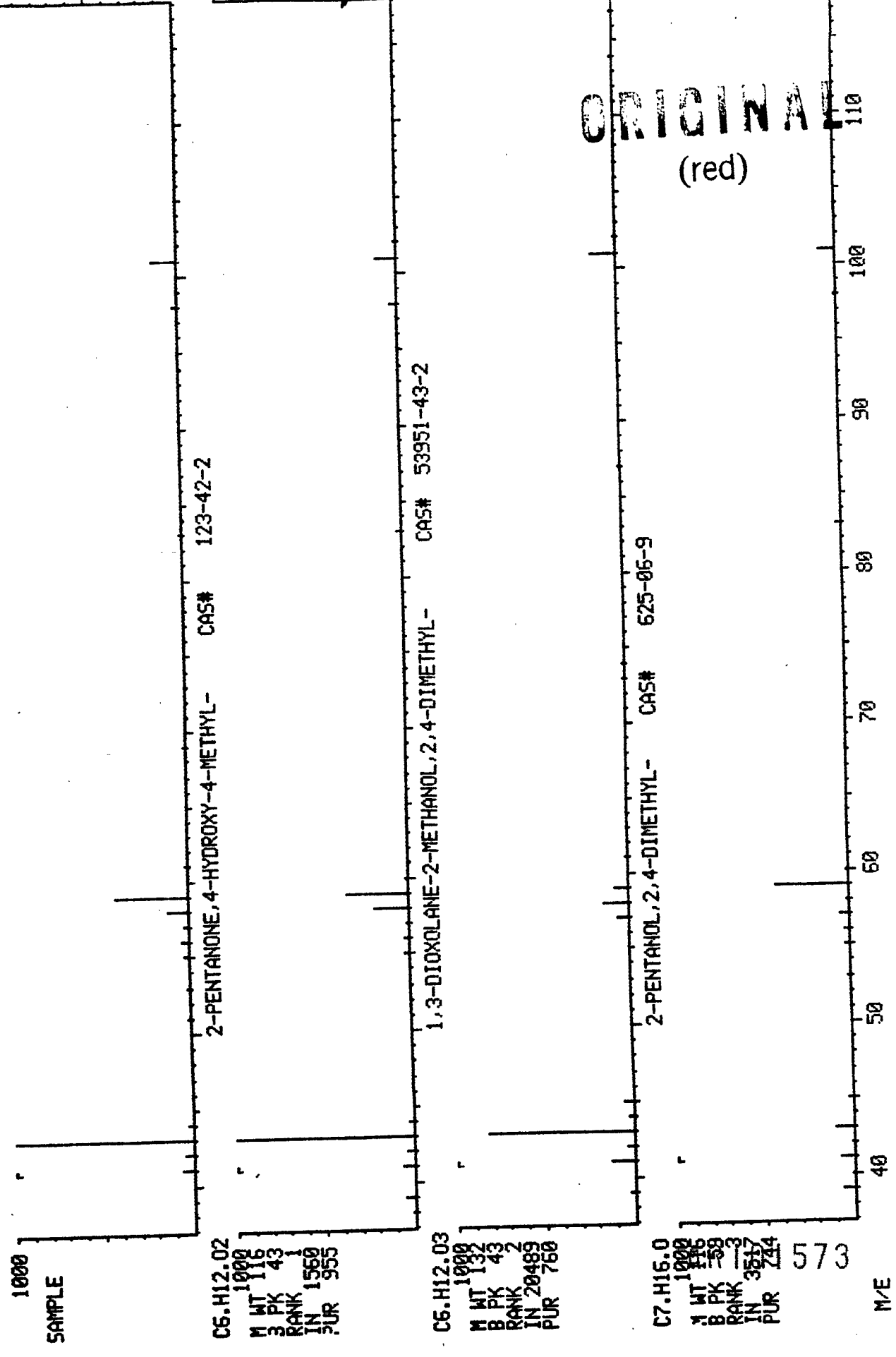


ARI01572

MEAD COMPUTCHEM DATA: GH025621A16 # 633

BASE M/E: 43  
RIC: 18559.

LIBRARY SEARCH  
01/26/83 16:27:00 + 7:55  
SAMPLE: 1.0 UL FSCC SAMPLE 25621  
ENHANCED (S 15B 2N 0T)



ORIGINAL  
(red)

11/12/83

C6.H12.O2  
M WT 1000  
B PK 116  
RANK 43  
IN 1560  
PUR 955

C6.H12.O3  
M WT 1000  
B PK 132  
RANK 43  
IN 20489  
PUR 760

C7.H16.O  
M WT 1000  
B PK 158  
RANK 43  
IN 3517  
PUR 744

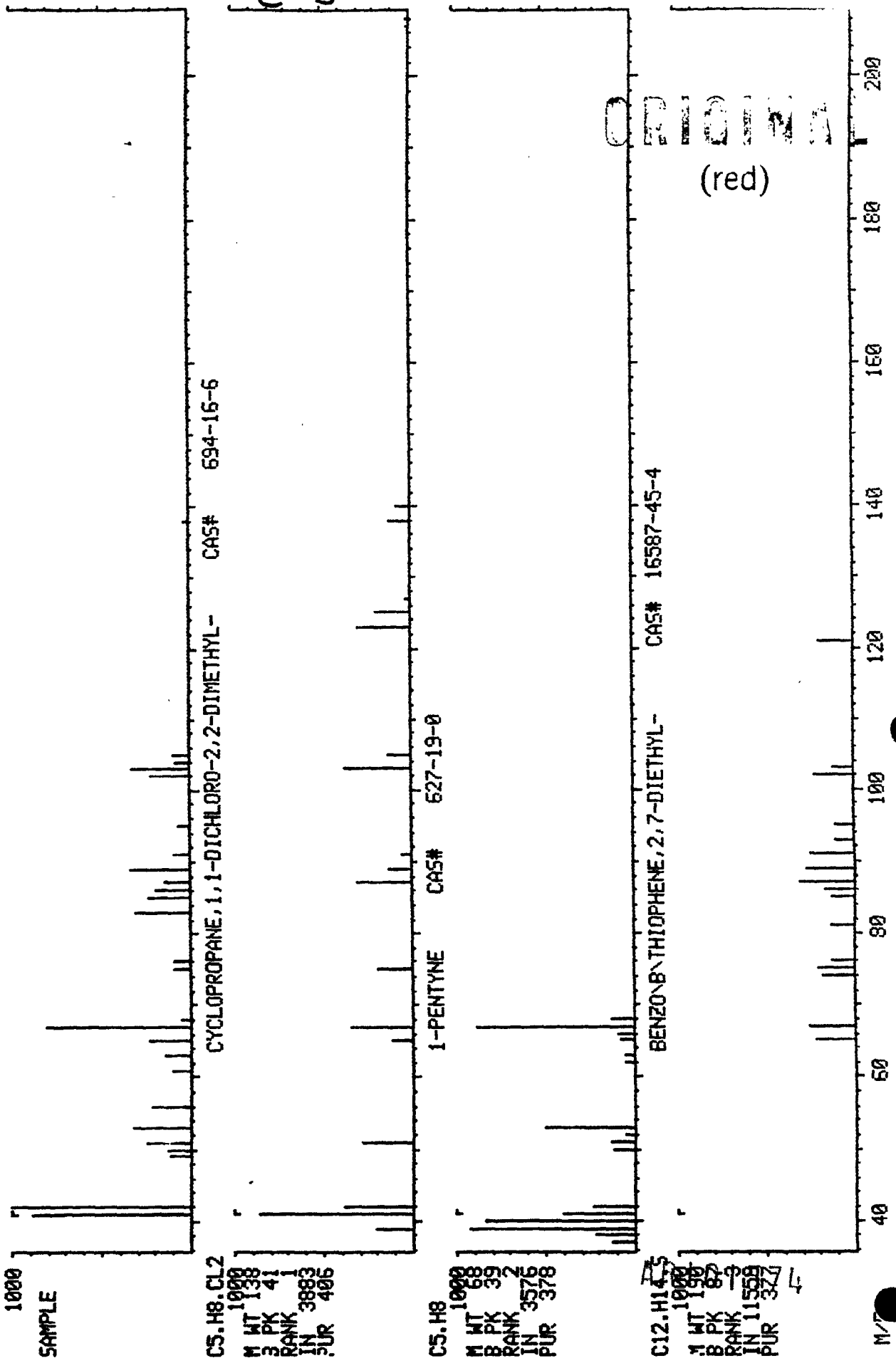
573

M/E

MEAD COMPUTCHEM

DATA: GH025521A16 # 740  
BASE M/E: 42  
RIC: 13311.

LIBRARY SEARCH  
01/26/83 16:27:00 + 9:15  
SAMPLE: 1.0 UL FSCC SAMPLE 25521  
ENHANCED (S 158 2N 0T)



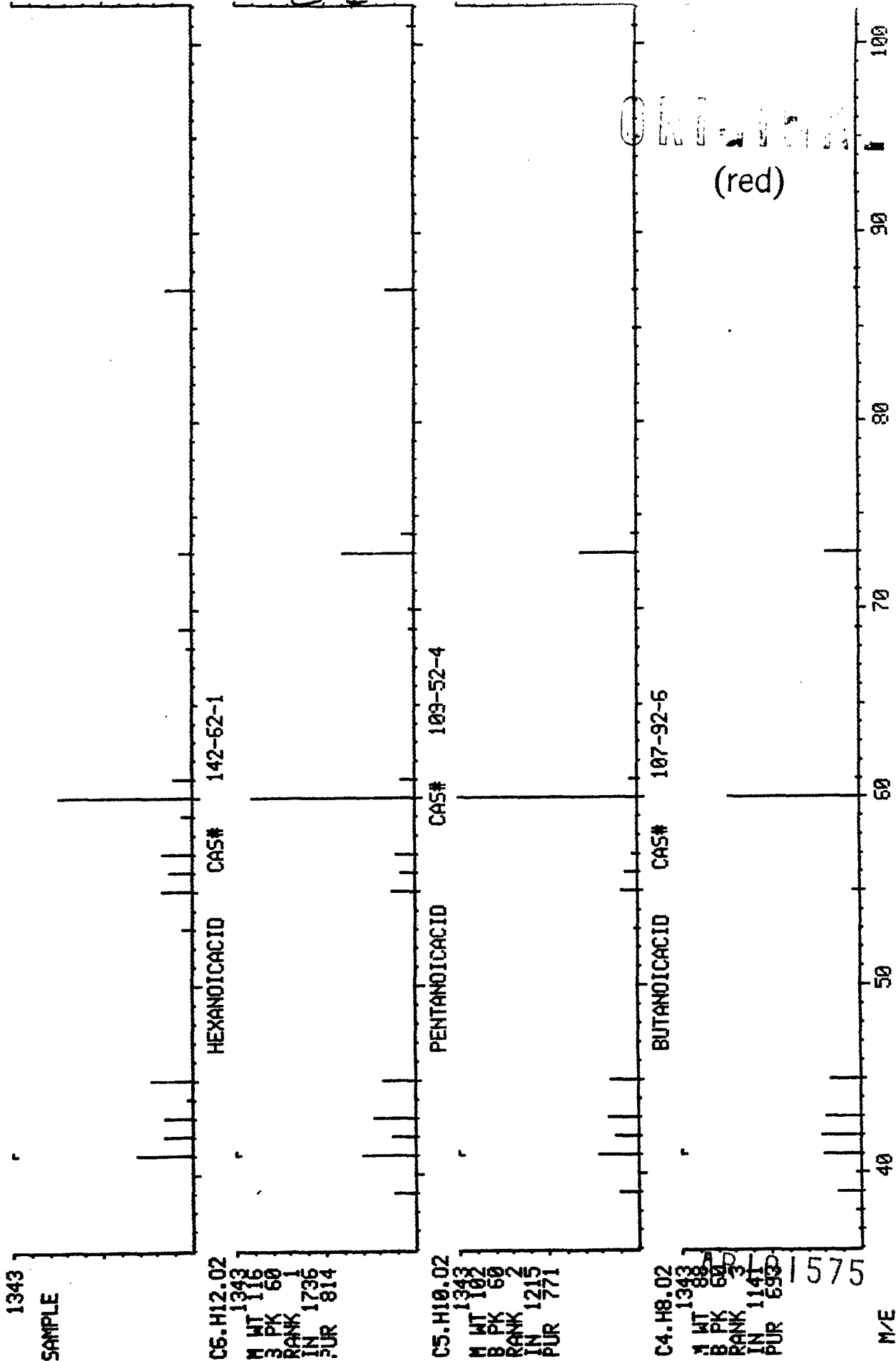
AR101574

MEAD COMPUTCHEM

DATA: GH025621A16 # 782

BASE M/E: 60  
RIC: 9151.

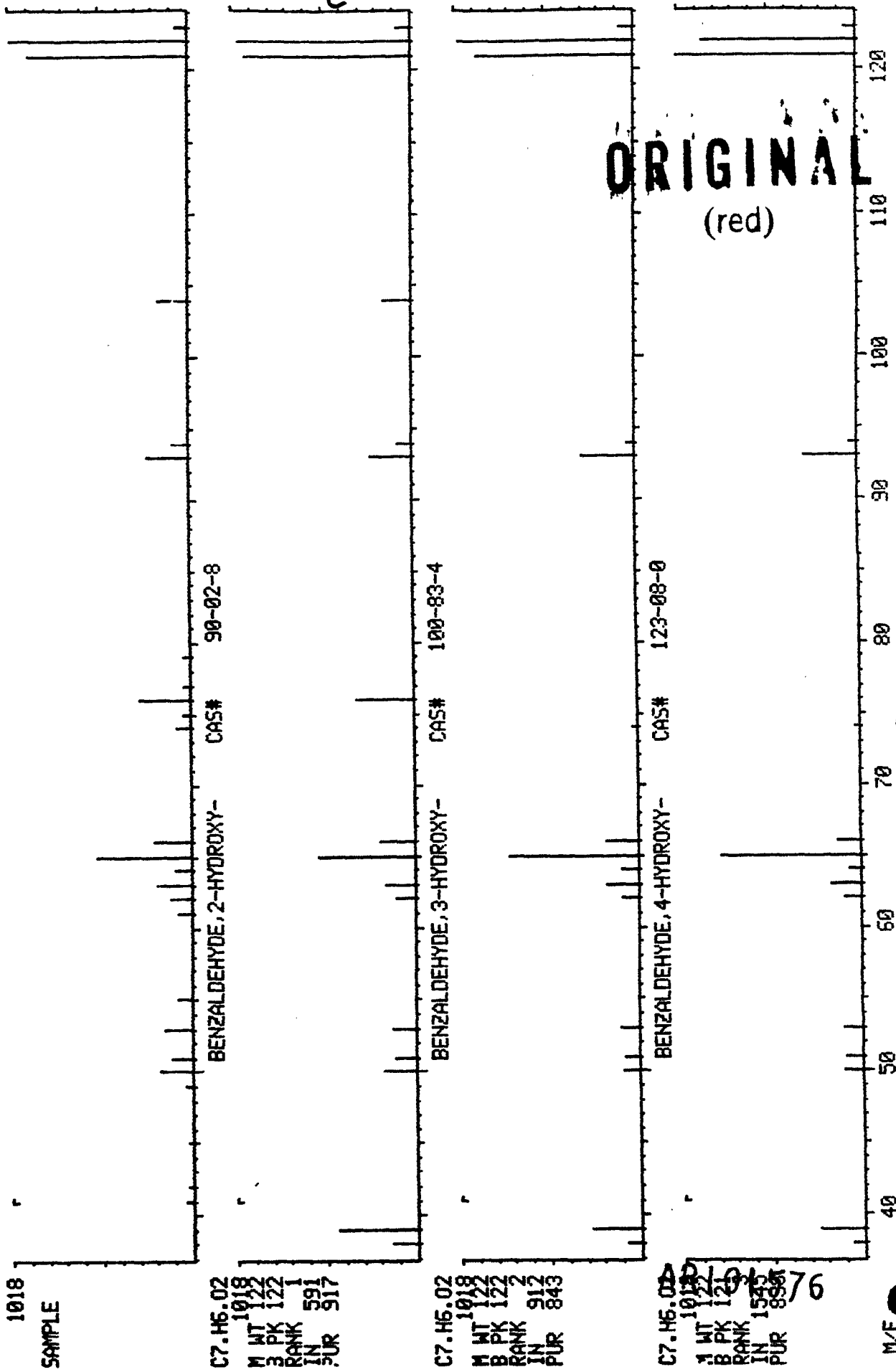
LIBRARY SEARCH  
01/26/83 16:27:00 + 9:46  
SAMPLE: 1.0 UL FSCC SAMPLE 25621  
ENHANCED (S 15B 2N 0T)



MEAD COMPUTCHEM

DATA: GH025521A16 # 925  
BASE M/E: 122  
RIC: 13423.

LIBRARY SEARCH  
01/26/83 16:27:00 + 11:34  
SAMPLE: 1.0 UL FSCC SAMPLE 25621  
ENHANCED (S 158 2N 0T)



MEAD COMPUTCHEM

DATA: GH025621A16 #1081

BASE M/E: 162  
RIC: 44735.

LIBRARY SEARCH  
01/26/83 16:27:00 + 13:31  
SAMPLE: 1.0 UL FSCC SAMPLE 25621  
ENHANCED (S 15B 2N 0T)

1014

SAMPLE

C6.H4.O.CL2

1014  
M WT 162  
B PK 162  
RANK 1  
IN 3041  
PUR 855

PHENOL, 2,5-DICHLORO-

CAS# 593-78-8

*Handwritten signature*

C6.H4.O.CL2

1014  
M WT 162  
B PK 162  
RANK 2  
IN 1493  
PUR 855

PHENOL, 2,4-DICHLORO-

CAS# 120-83-2

C6.H4.O.CL2

1014  
M WT 162  
B PK 162  
RANK 0  
IN 2992  
PUR 855

PHENOL, 2,3-DICHLORO-

CAS# 575-24-9

**ORIGINAL**  
(red)

M/E

60

80

100

120

140

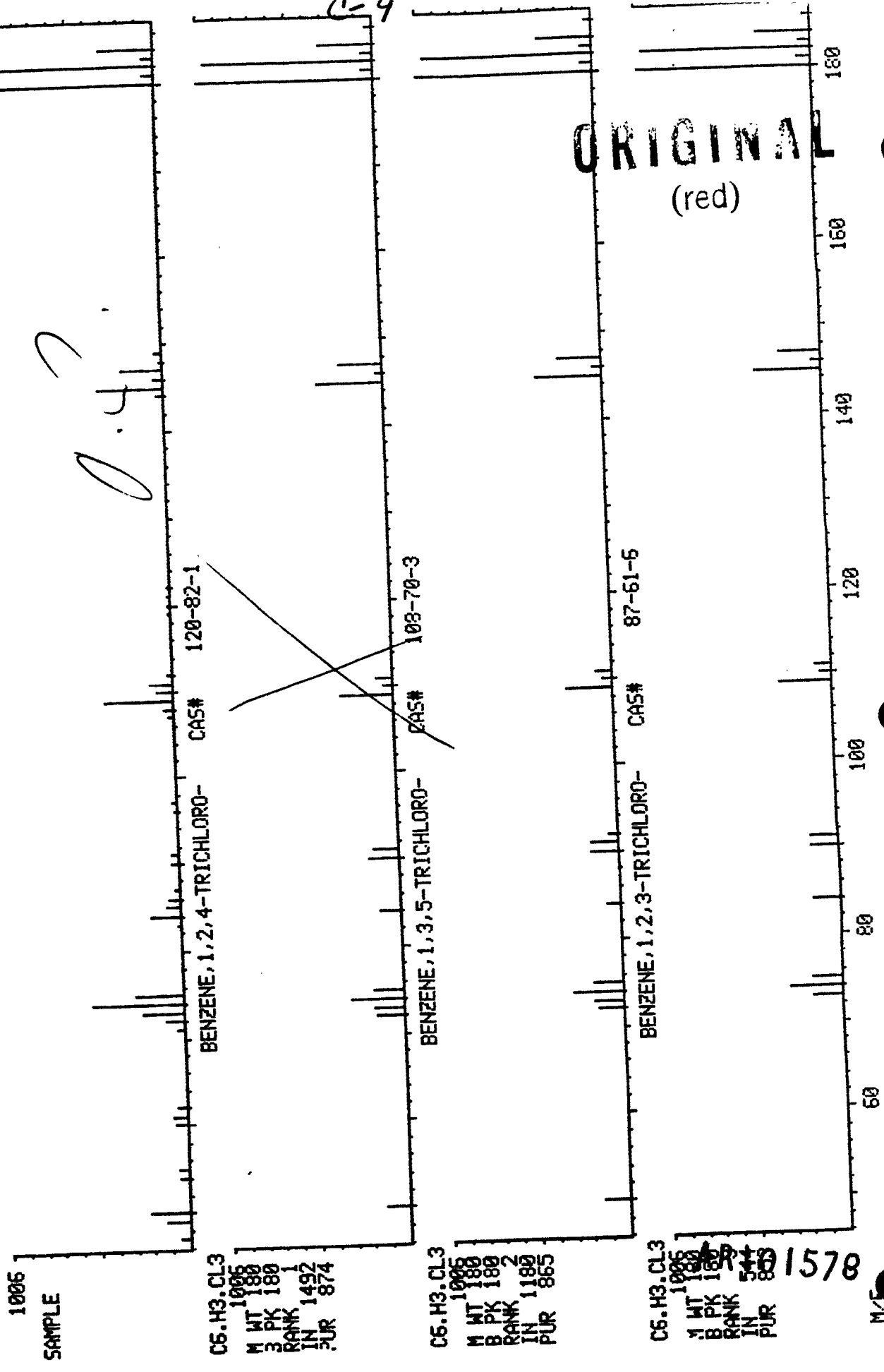
160

077



MEAD COMPUTCHEM DATA: GH025621A16 #1097 BASE M/E: 180 RIC: 53311.

LIBRARY SEARCH  
01/26/83 16:27:00 + 13:43  
SAMPLE: 1.0 UL FSCC SAMPLE 25621  
ENHANCED (S 158 2N 0T)



C6.H3.CL3  
M WT 180  
B PK 180  
RANK 1  
IN 1492  
PUR 874

C6.H3.CL3  
M WT 180  
B PK 180  
RANK 2  
IN 1190  
PUR 865

C6.H3.CL3  
M WT 180  
B PK 180  
RANK 58  
IN 58  
PUR 1578

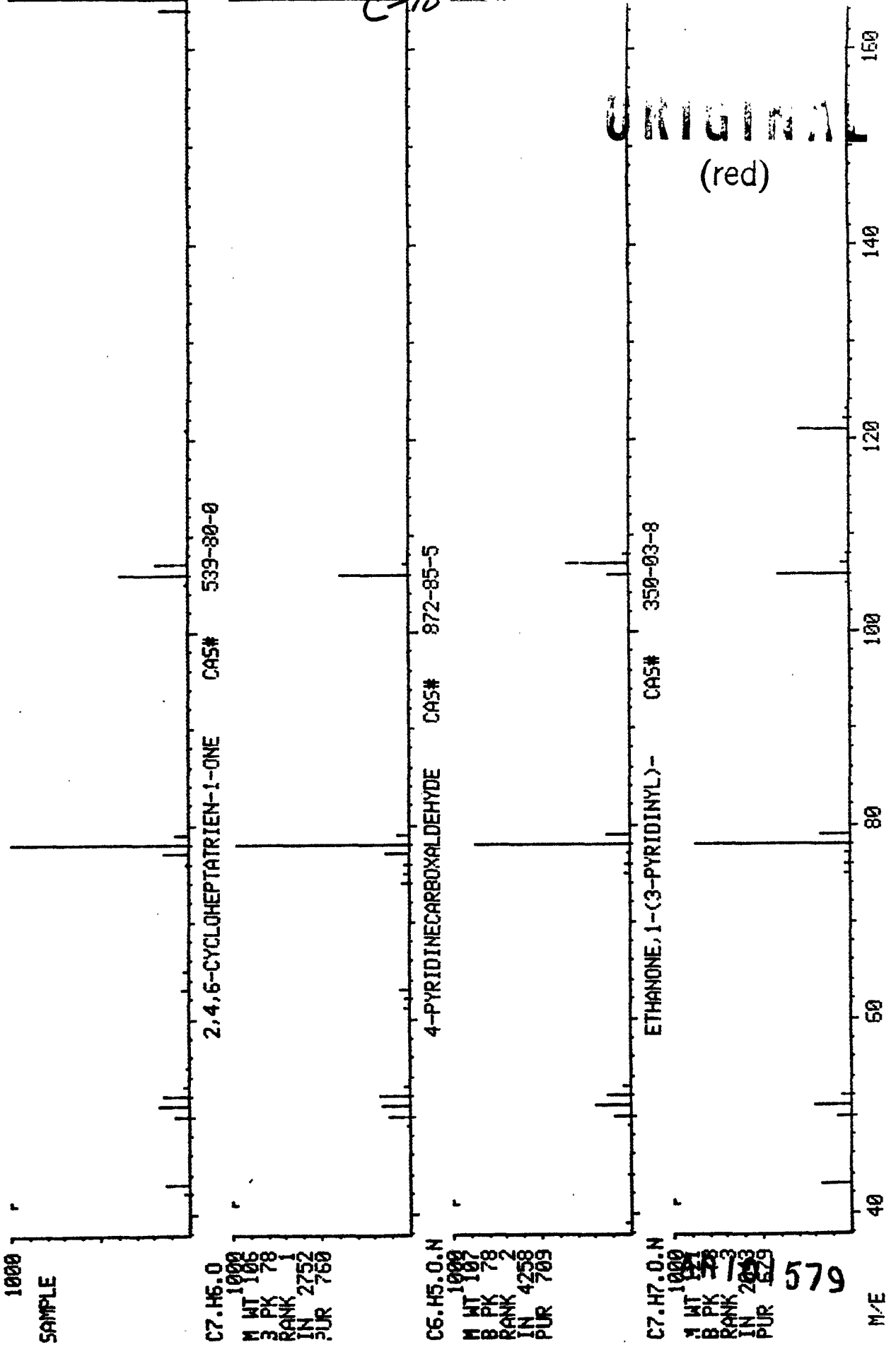
M/E

MEAD COMPUTCHEM

DATA: GH025621A16 #1136

BASE M/E: 78  
RIC: 14079.

LIBRARY SEARCH  
01/26/83 16:27:00 + 14:12  
SAMPLE: 1.0 UJL FSCC SAMPLE 25621  
ENHANCED (S 158 2N 0T)



C7.H6.O  
M WT 1000  
B PK 106  
RANK 78  
IN 1  
PUR 2752  
PUR 750

C6.H5.O.N  
M WT 1000  
B PK 107  
RANK 78  
IN 2  
PUR 4258  
PUR 709

C7.H7.O.N  
M WT 1000  
B PK 108  
RANK 78  
IN 3  
PUR 2003  
PUR 679

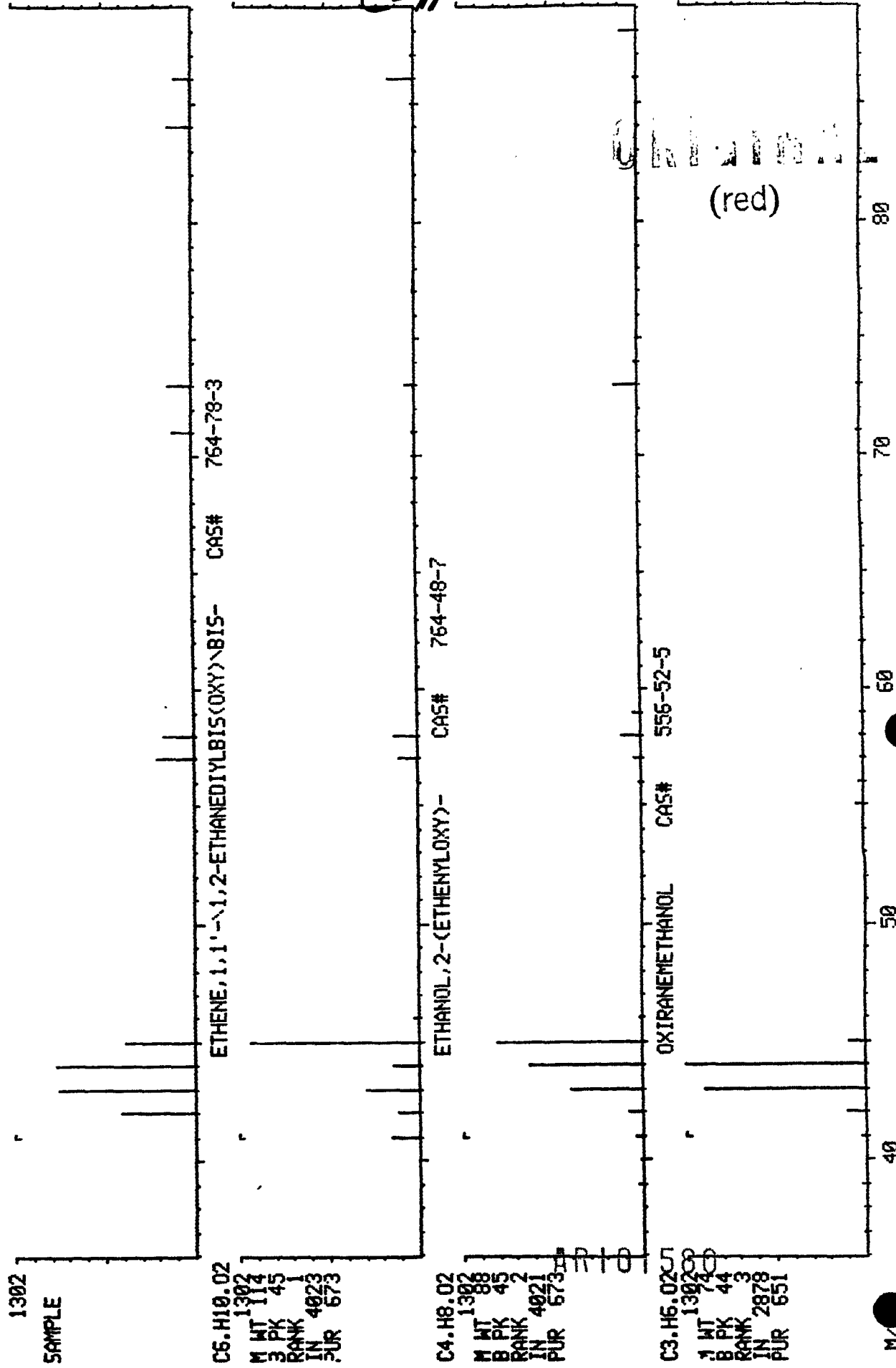
ORIGINAL  
(red)

MEAD COMPUTCHEM

DATA: GH025621A16 #1238

BASE M/E: 44  
RIC: 5231.

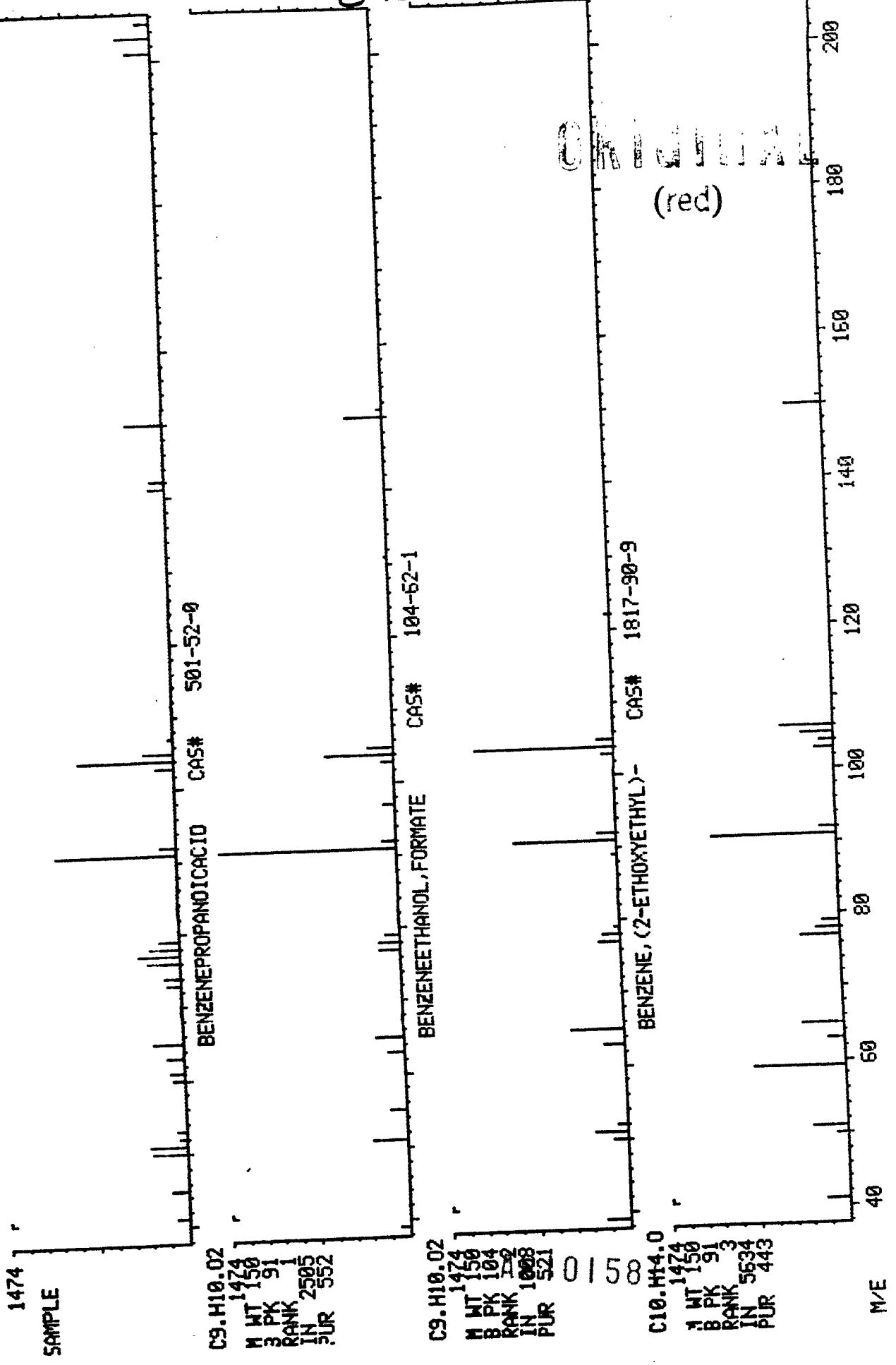
LIBRARY SEARCH  
01/26/83 16:27:00 + 15:28  
SAMPLE: 1.0 UL FSCC SAMPLE 25621  
ENHANCED (S 158 2N 0T)



MEAD COMPUCHEM DATA: GH025521A15 #1252

BASE M/E: 91  
RIC: 7535.

LIBRARY SEARCH  
01/25/83 16:27:00 + 15:39  
SAMPLE: 1.0 UL FSOC SAMPLE 25621  
ENHANCED (5 15B 2N 0T)



1474

SAMPLE

C9.H10.O2  
1474  
M WT 150  
3 PK 91  
RANK 1  
IN 2505  
PUR 552

C9.H10.O2  
1474  
M WT 150  
3 PK 104  
RANK 1  
IN 1008  
PUR 521

C10.H14.O  
1474  
M WT 150  
3 PK 91  
RANK 3  
IN 5634  
PUR 443

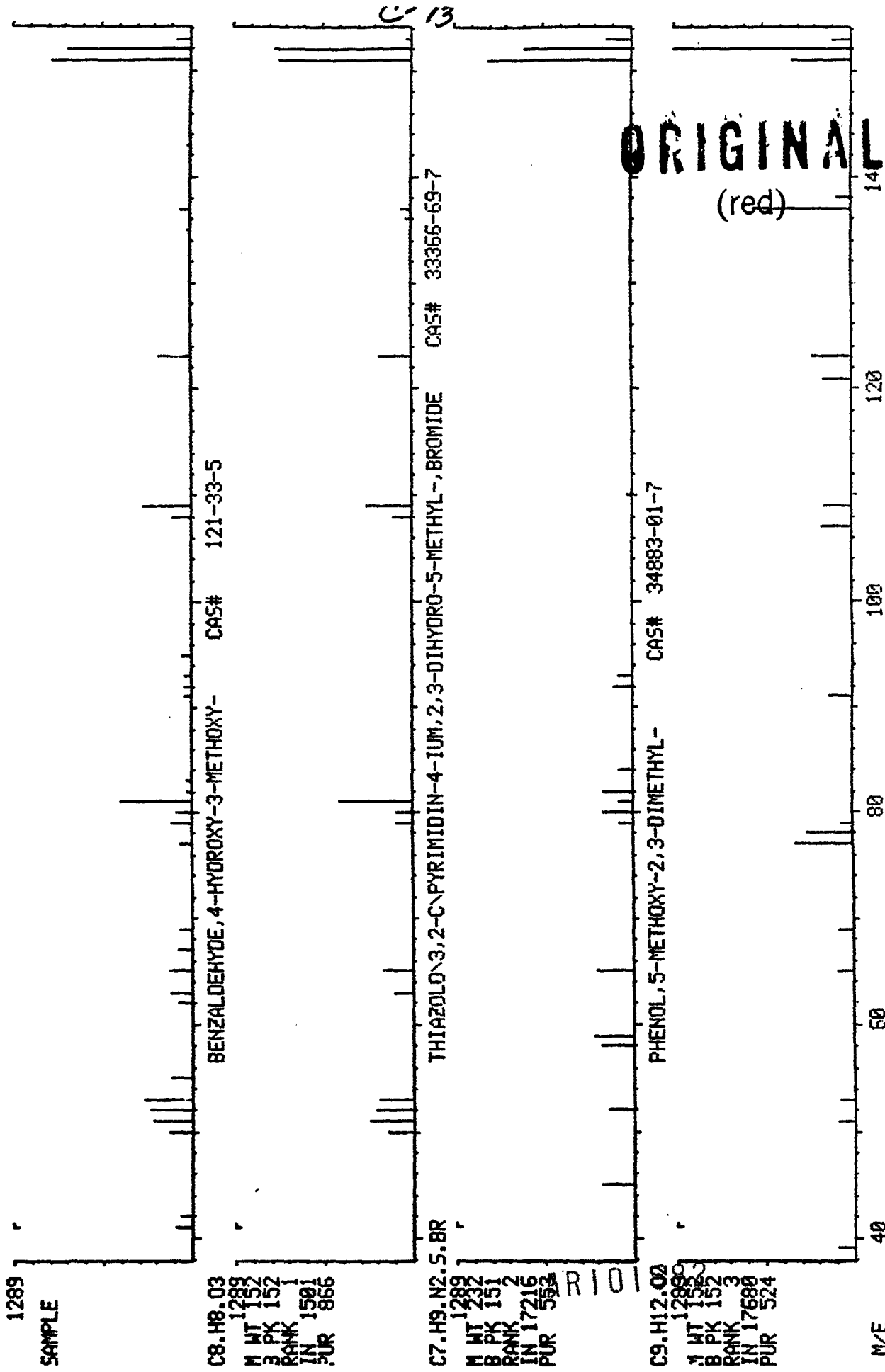
M/E

MEAD COMPUTCHEM

DATA: GH025621A16 #1333

BASE M/E: 151  
RIC: 16287.

LIBRARY SEARCH  
01/26/83 16:27:00 + 16:40  
SAMPLE: 1.0 UL F5CC SAMPLE 25621  
ENHANCED (S 158 2N 0T)



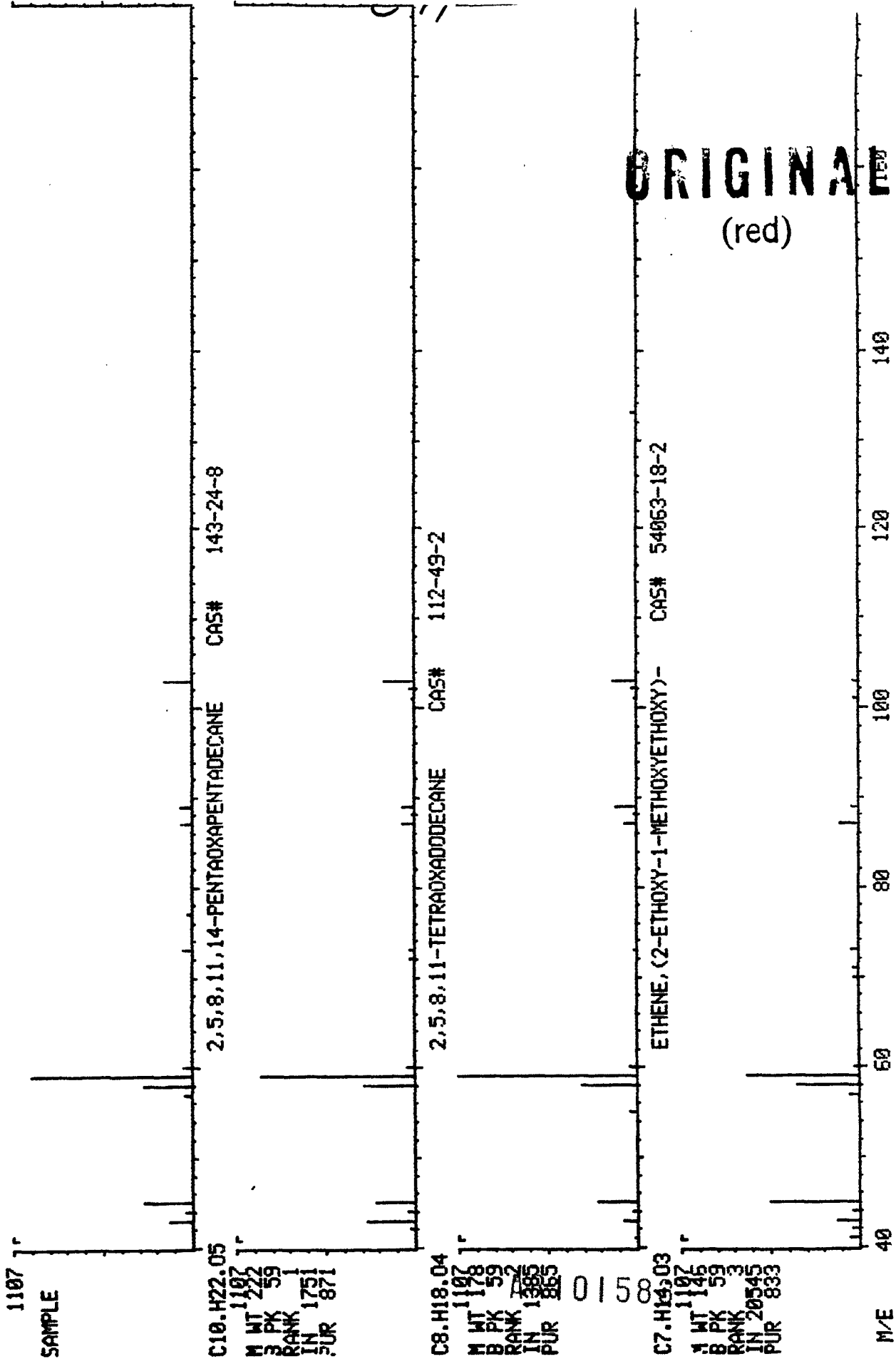
M/E

MEAD COMPUCHEM

DATA: GH025621A15 #1415

BASE M/E: 59  
RIC: 7255.

LIBRARY SEARCH  
01/26/83 16:27:00 + 17:41  
SAMPLE: 1.0 UL FSCC SAMPLE 25621  
ENHANCED (S 158 2N 0T)



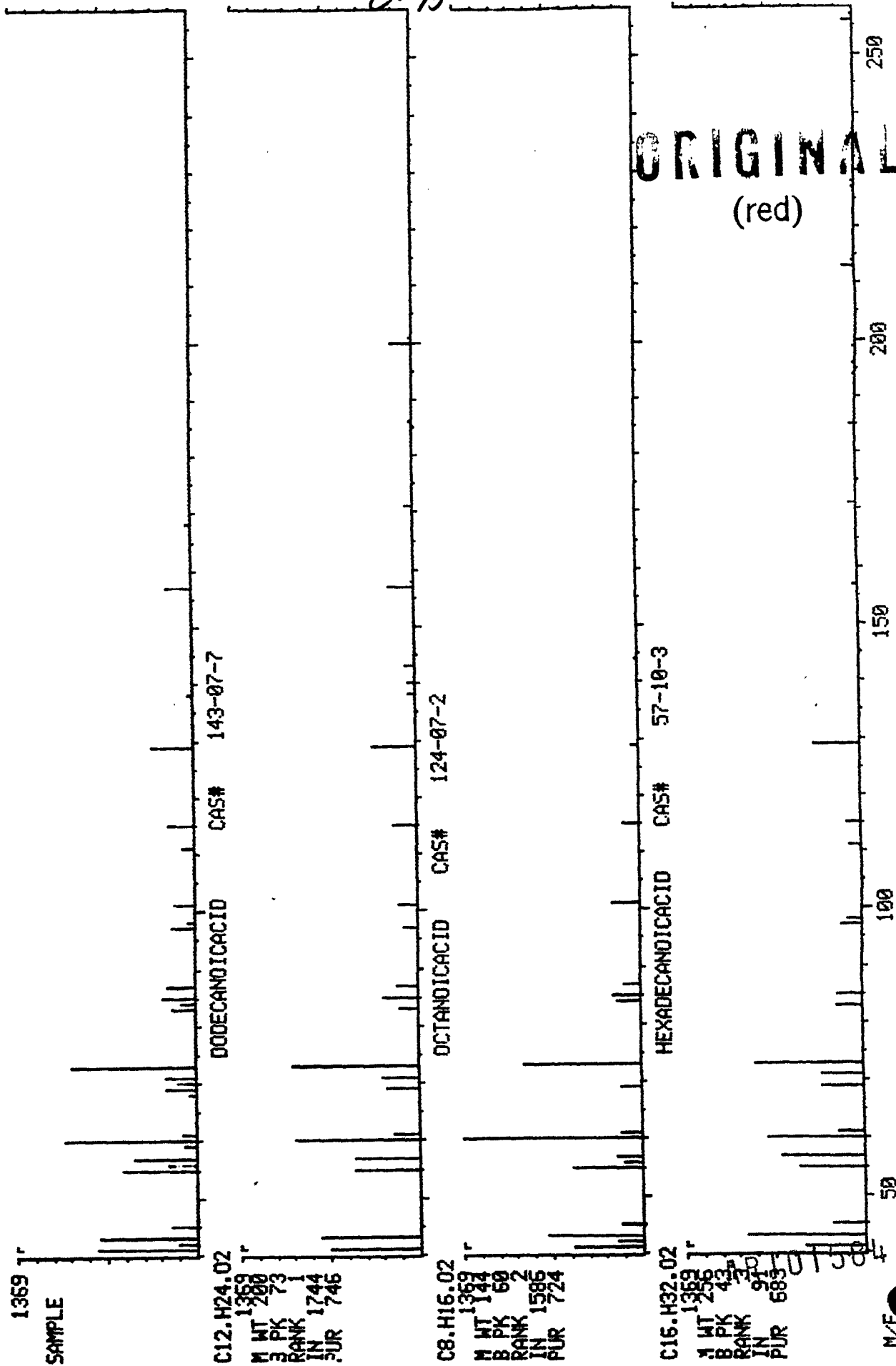
**ORIGINAL**  
(red)

MEAD COMPUCHEM

DATA: GH025621A16 #1452

BASE M/E: 60  
RIC: 8447.

LIBRARY SEARCH  
01/26/83 16:27:00 + 18:16  
SAMPLE: 1.0 UL FSCC SAMPLE 25621  
ENHANCED (S 158 2N 0T)



C-15

ORIGINAL  
(red)

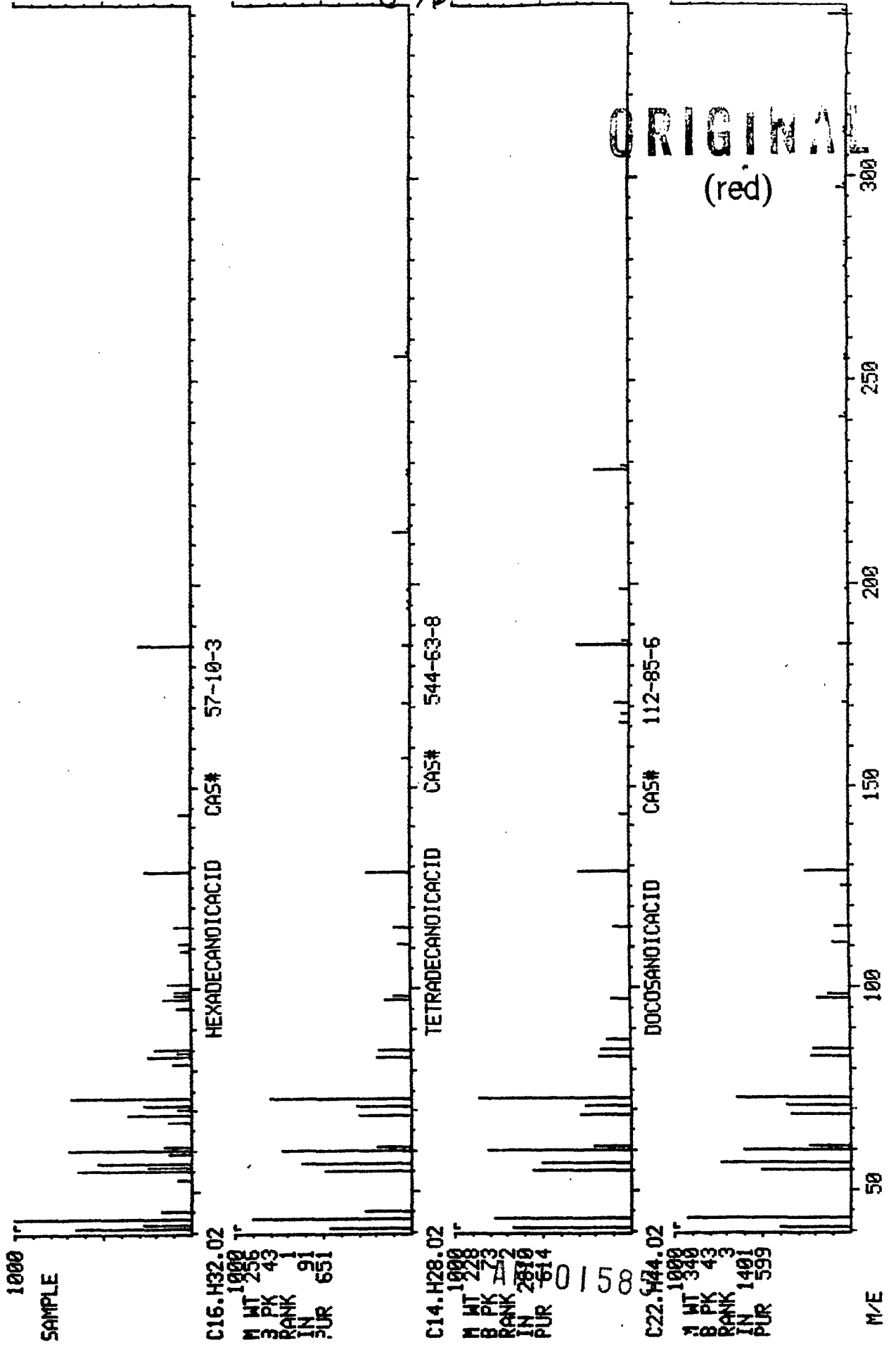
M/E

MEAD COMPUCHEM

DATA: GH025521A16 #1605

BASE M/E: 43  
RIC: ,10591.

LIBRARY SEARCH  
01/26/83 16:27:00 + 20:04  
SAMPLE: 1.0 UL F5CC SAMPLE 25621  
ENHANCED (S 15B 2N 0T)

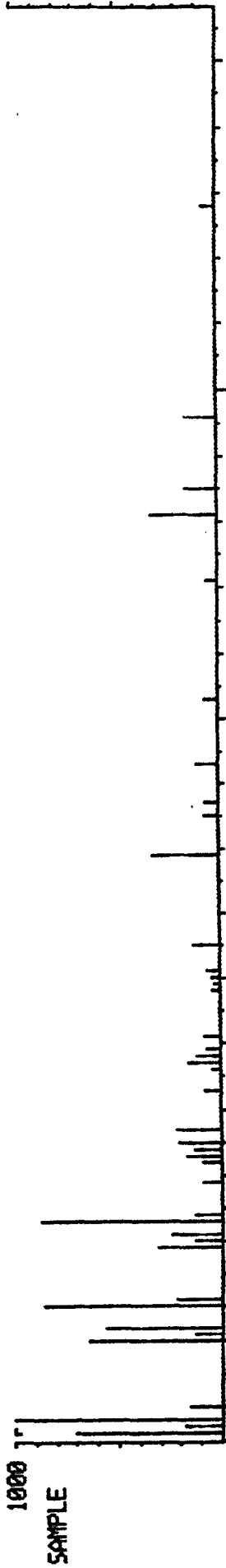




MEAD COMPUTCHEM

DATA: GH025521A16 #1635  
BASE M/E: 43  
RIC: 17599.

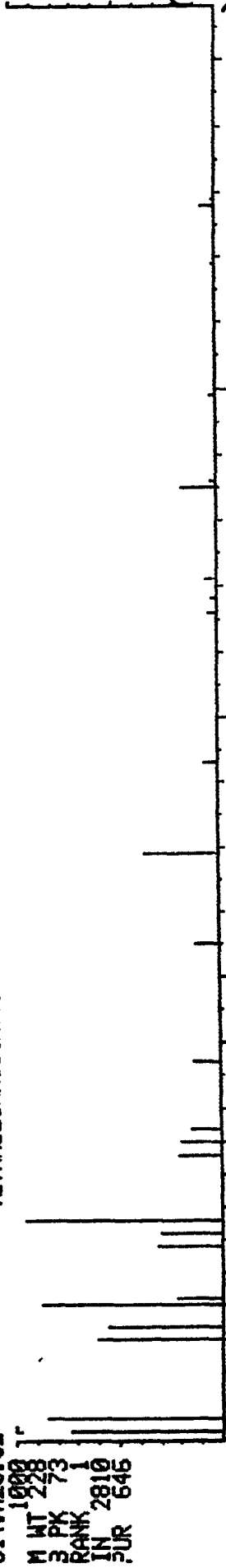
LIBRARY SEARCH  
01/26/83 16:27:00 + 20:26  
SAMPLE: 1.0 UL F50C SAMPLE 25621  
ENHANCED (S 15B 2N 0T)



TETRADECANOICACID CAS# 544-63-8

C14.H28.O2

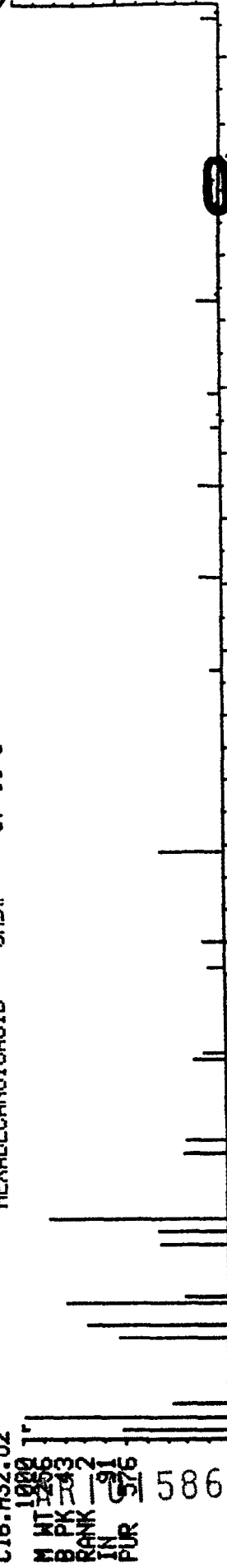
M WT 1000  
B PK 228  
RANK 73  
IN 1  
PUR 2810  
PUR 645



HEXADECANOICACID CAS# 57-10-3

C16.H32.O2

M WT 1000  
B PK 243  
RANK 2  
IN 91  
PUR 576  
586



DODECANOICACID CAS# 143-07-7

C12.H24.O2

M WT 1000  
B PK 60  
RANK 3  
IN 1744  
PUR 517

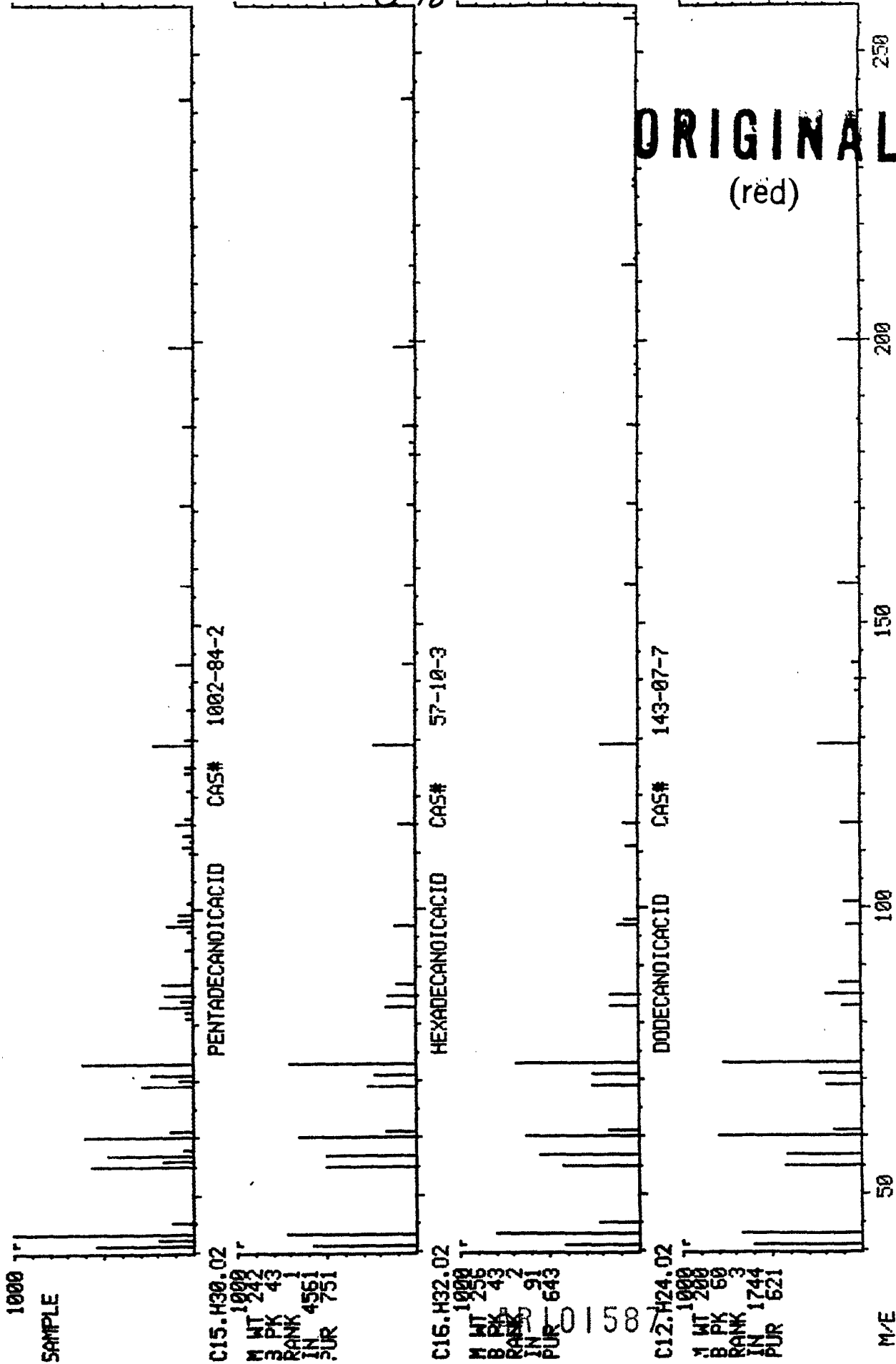
ORIGINAL  
(red)

M/E

MEAD COMPUTCHEM

DATA: GH025621A15 #1685  
BASE M/E: 43  
RIC: 28959.

LIBRARY SEARCH  
01/26/83 16:27:00 + 21:04  
SAMPLE: 1.0 UL FSCC SAMPLE 25621  
ENHANCED (S 158 2N 0T)

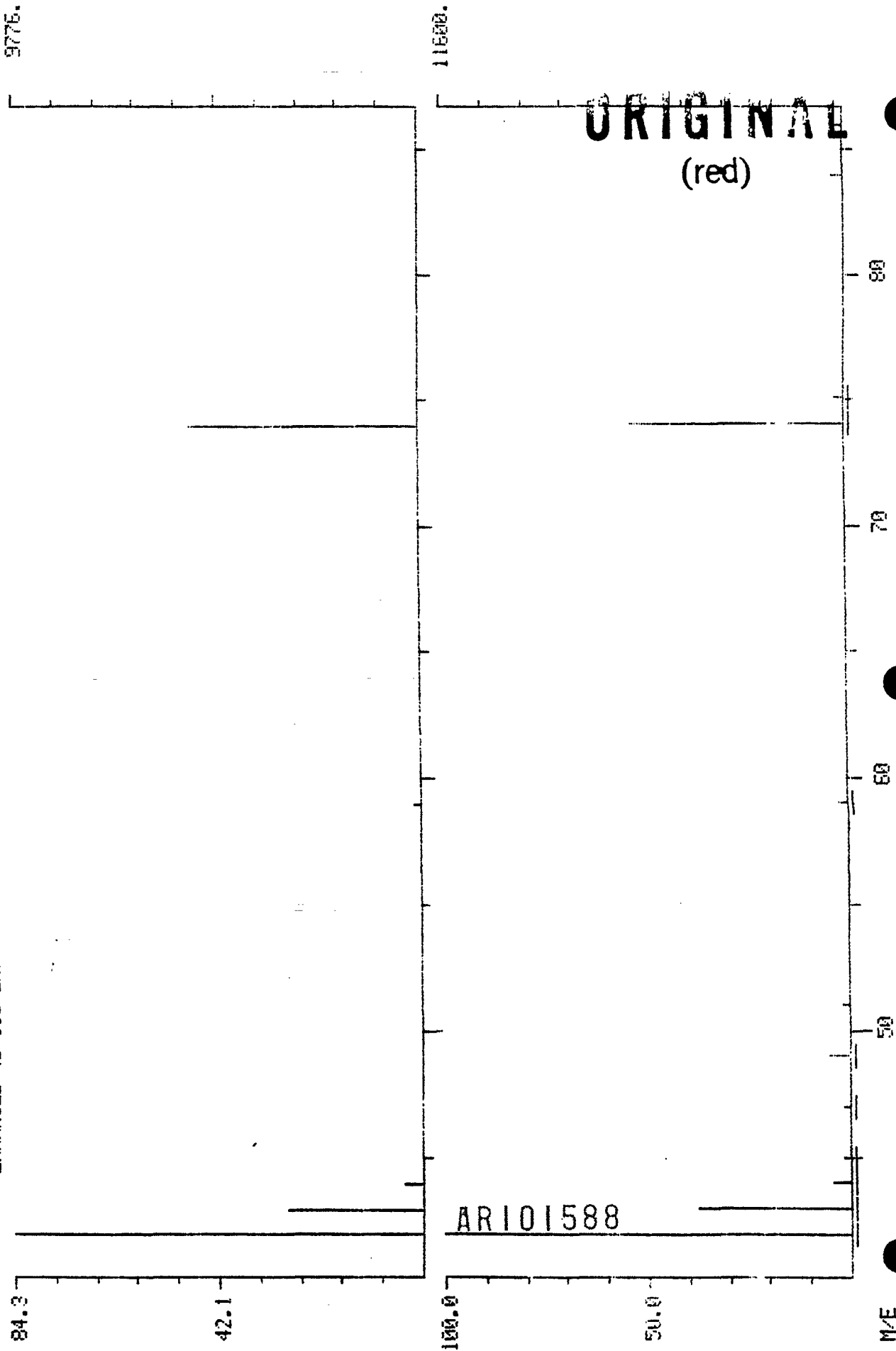


441

MEAD COMFUCHEN

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 6:01  
SAMPLE: 1.0 ULL F50C SAMPLE 25621  
ENHANCED (5 158 2N)

DATA: GH025621016 #482 BASE M/E: 42/ 42  
RIC: 19167./ 25151.

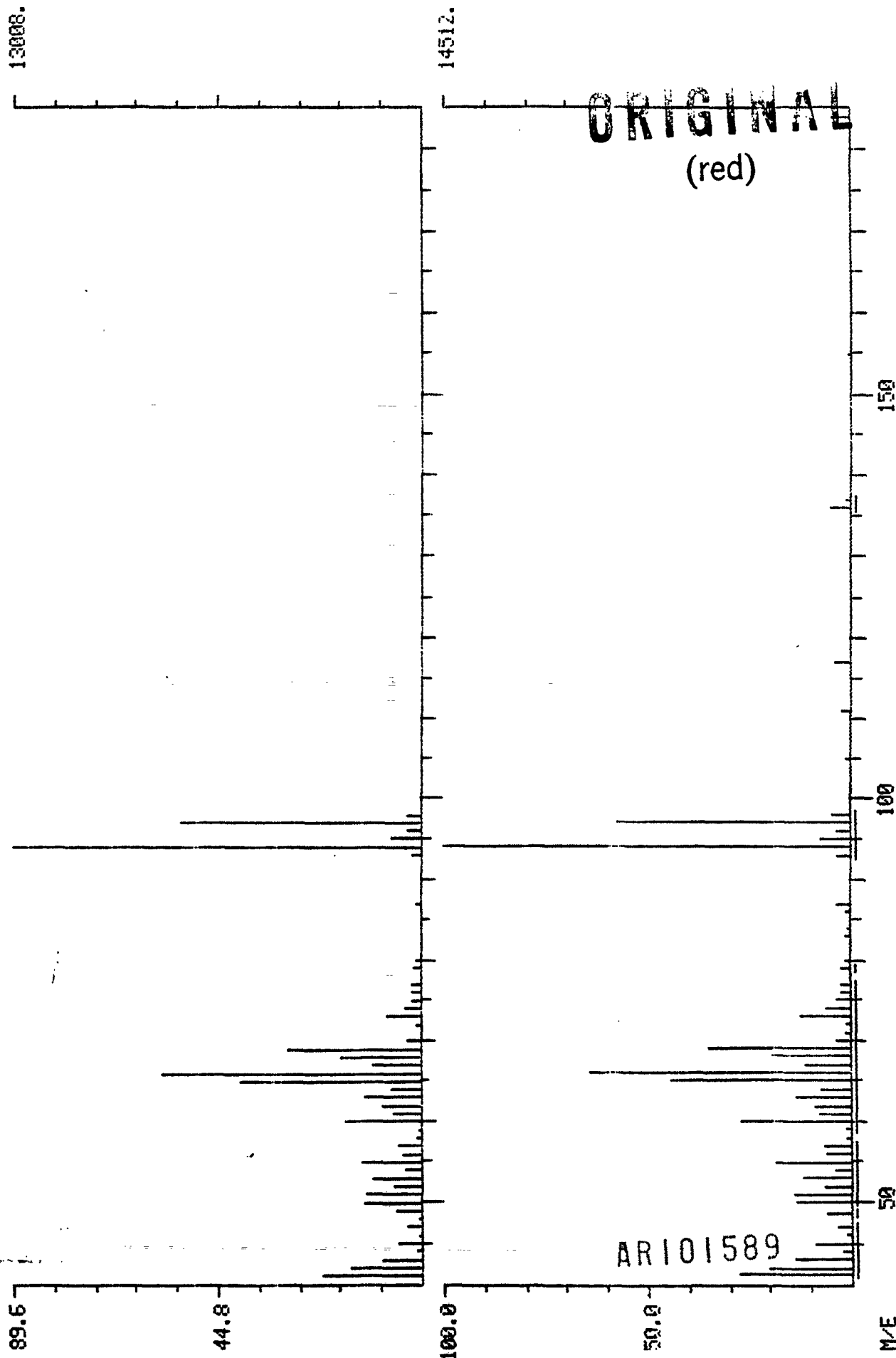


(10 ct)

MEAD COMPUCHEM

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 10:21  
SAMPLE: 1.0 UL F5CC SAMPLE 25621  
ENHANCED (S 15B 2N)

DATA: GH025621A15 #828 BASE M/E: 94/ 94  
RIC: 75007./ 93055.



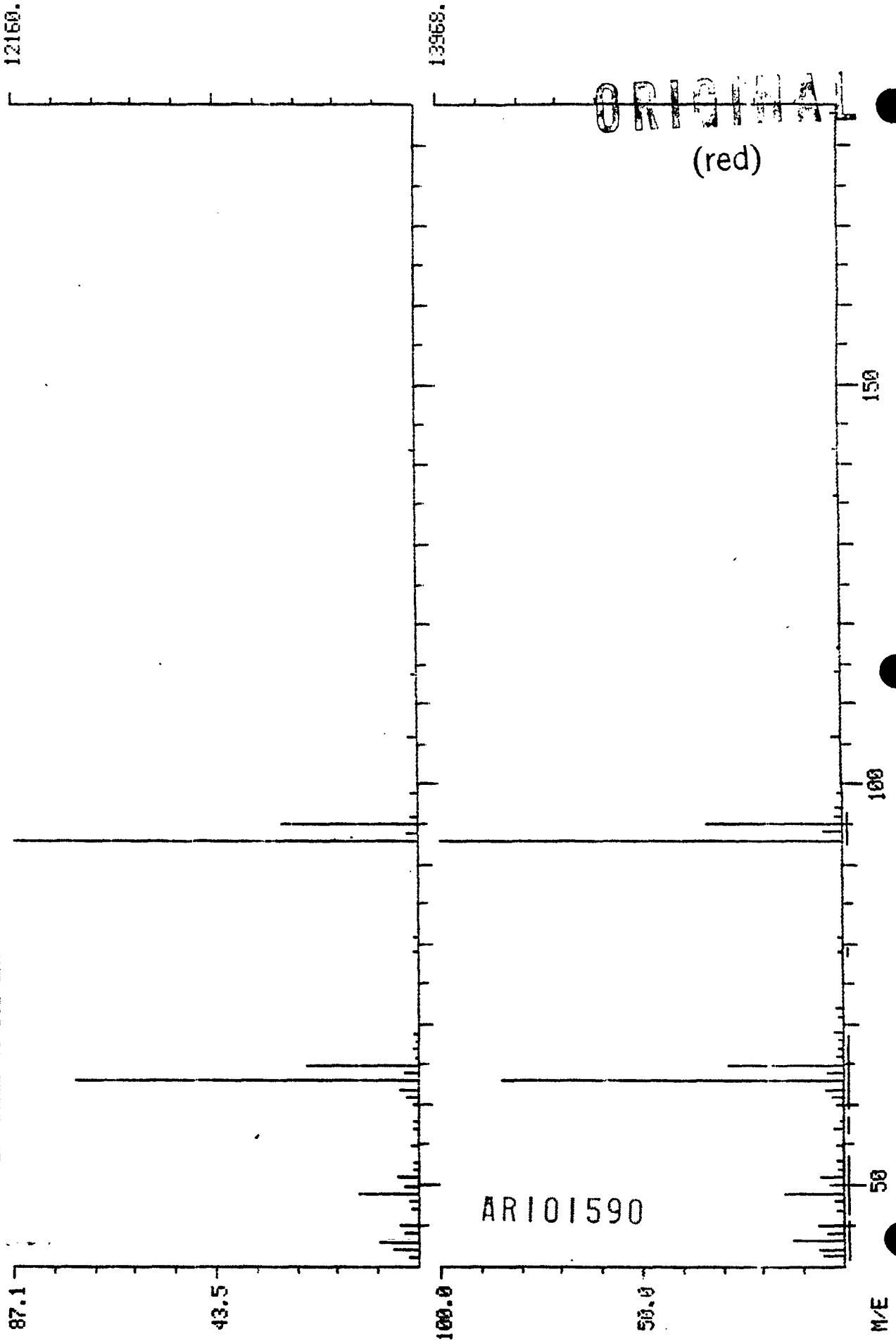
44

C-21

MEAD COMPUTHER

DATA: GH025621A16 #842 BASE M/E: 93/ 93  
RIC: 40639./ 49791.

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 10:31  
SAMPLE: 1.0 UL FSDC SAMPLE 25621  
ENHANCED (5 158 2N)

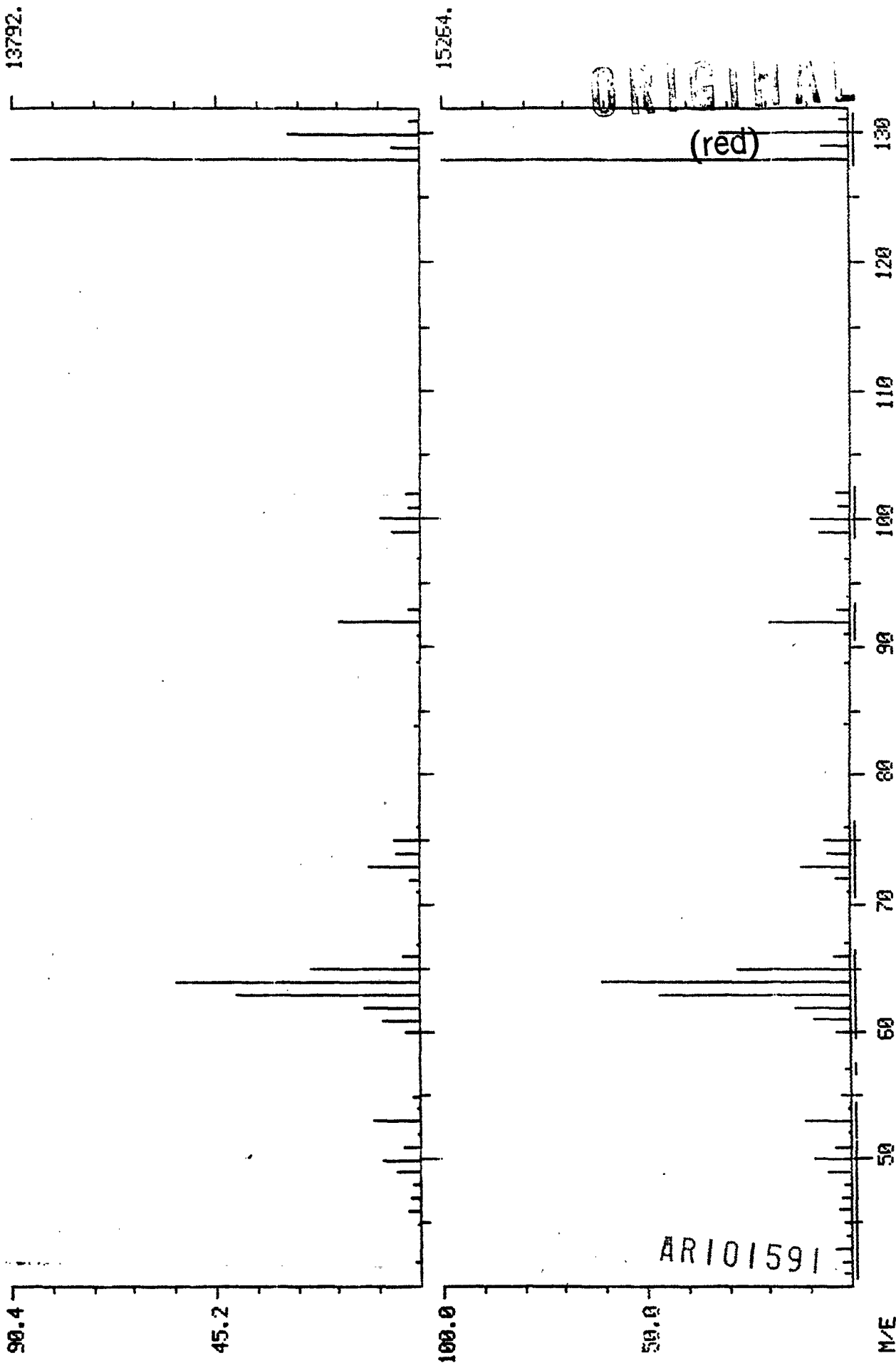


601

MEAD COMPUTCHEM

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 10:40  
SAMPLE: 1.0 UL FSQC SAMPLE 25621  
ENHANCED (S 158 2N)

DATA: GH025E21A16 #853 BASE M/E: 128/ 128  
RIC: 57599./ 66687.



AR101591

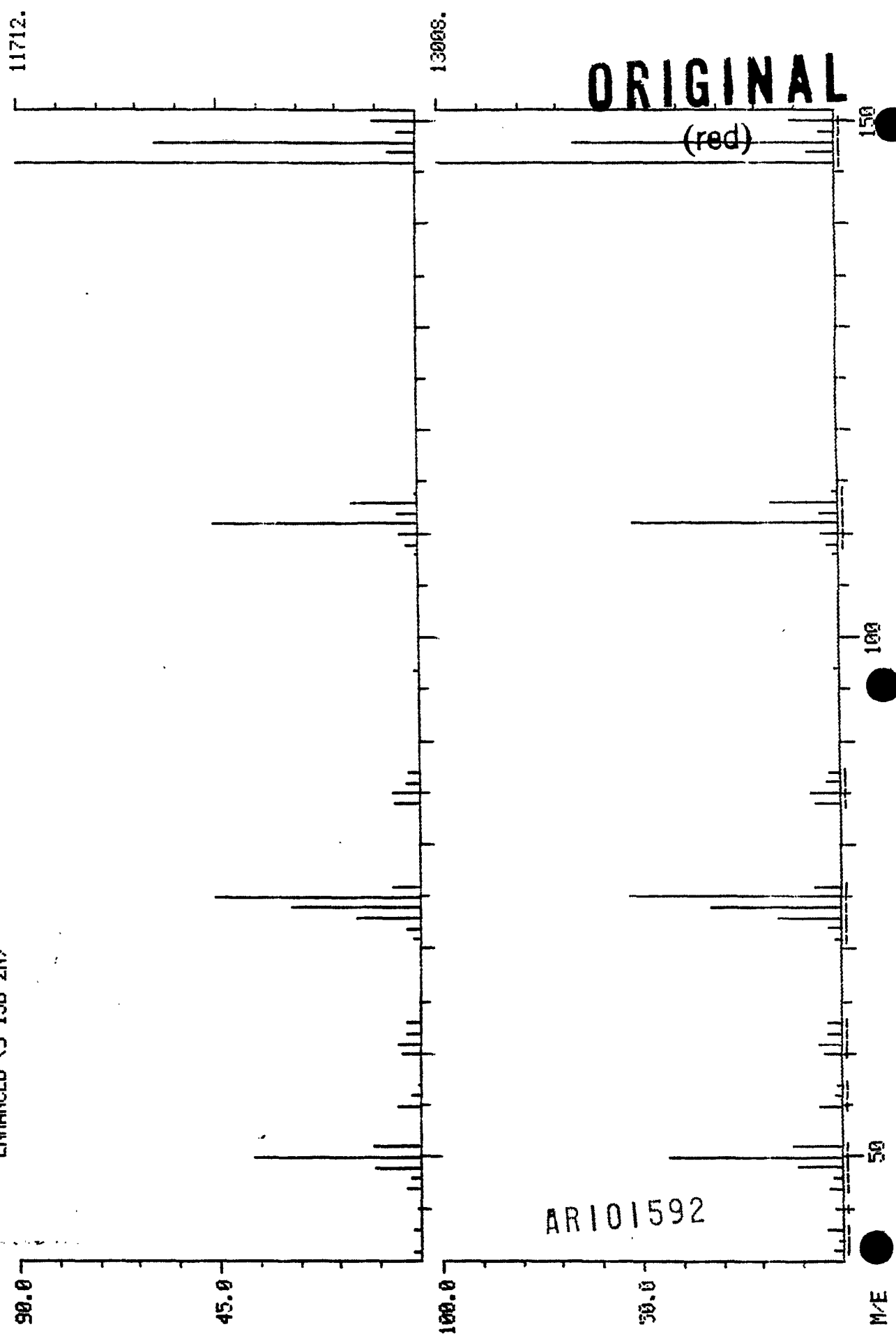
422

C-20

MEAD COMPUTHEN

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 11:04  
SAMPLE: 1.0 UL F500 SAMPLE 25621  
ENHANCED (S 15B 2N)

DATA: GH025621A16 #885  
BASE M/E: 146/ 146  
RIC: 58175./ 66559.



AR101592

ORIGINAL

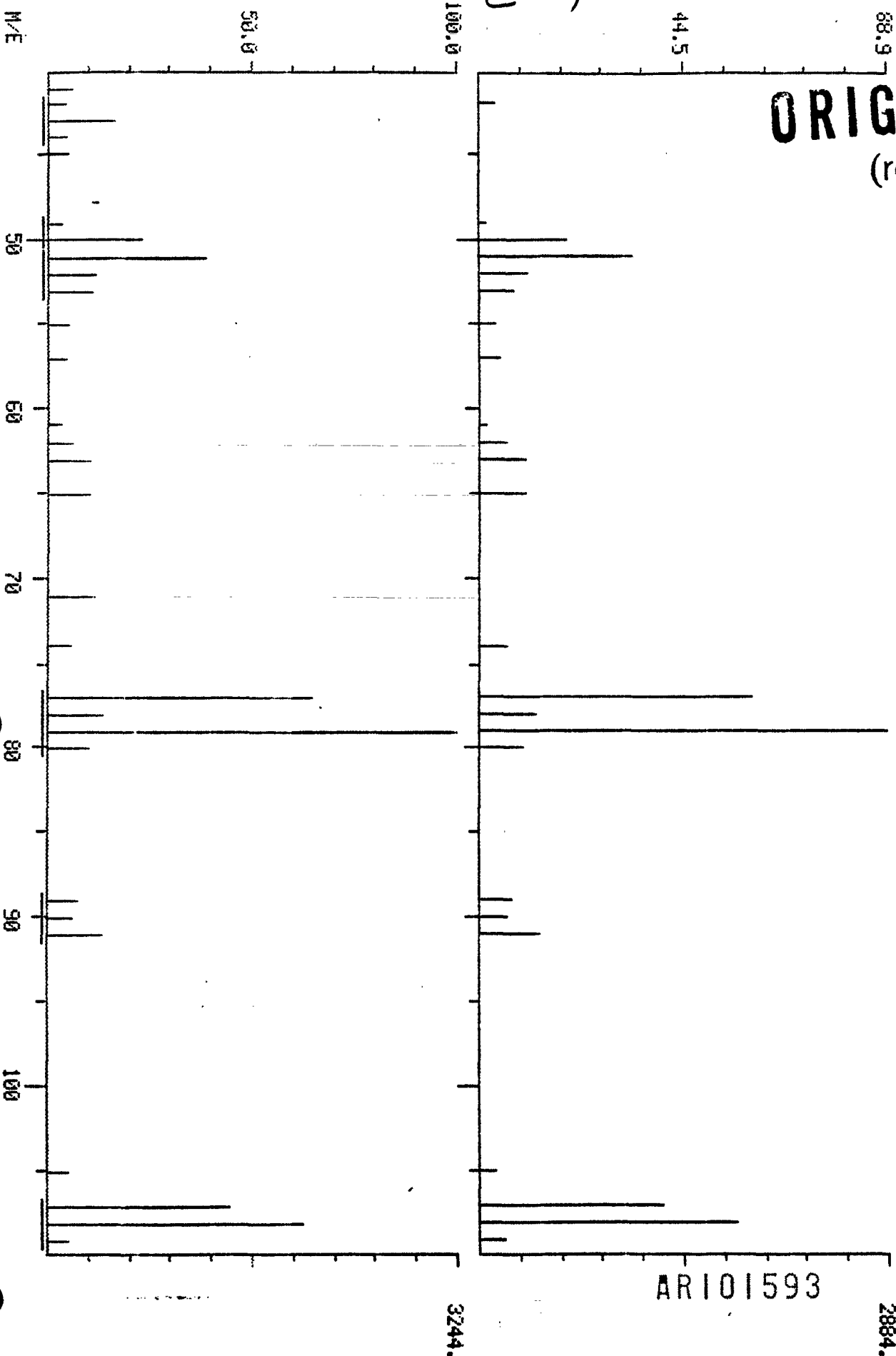
(red)  
DUAL MASS SPECTRUM  
01/25/83 16:27:00 + 11:21  
SAMPLE: 1.0 UL F50C SAMPLE 25621  
ENHANCED (S 158 2N)

HEAD COMPUCHEN

DATA: GH025621A16 #908

BASE M/E: 79/ 79  
RIC: 13583./ 16671.

474





1/12

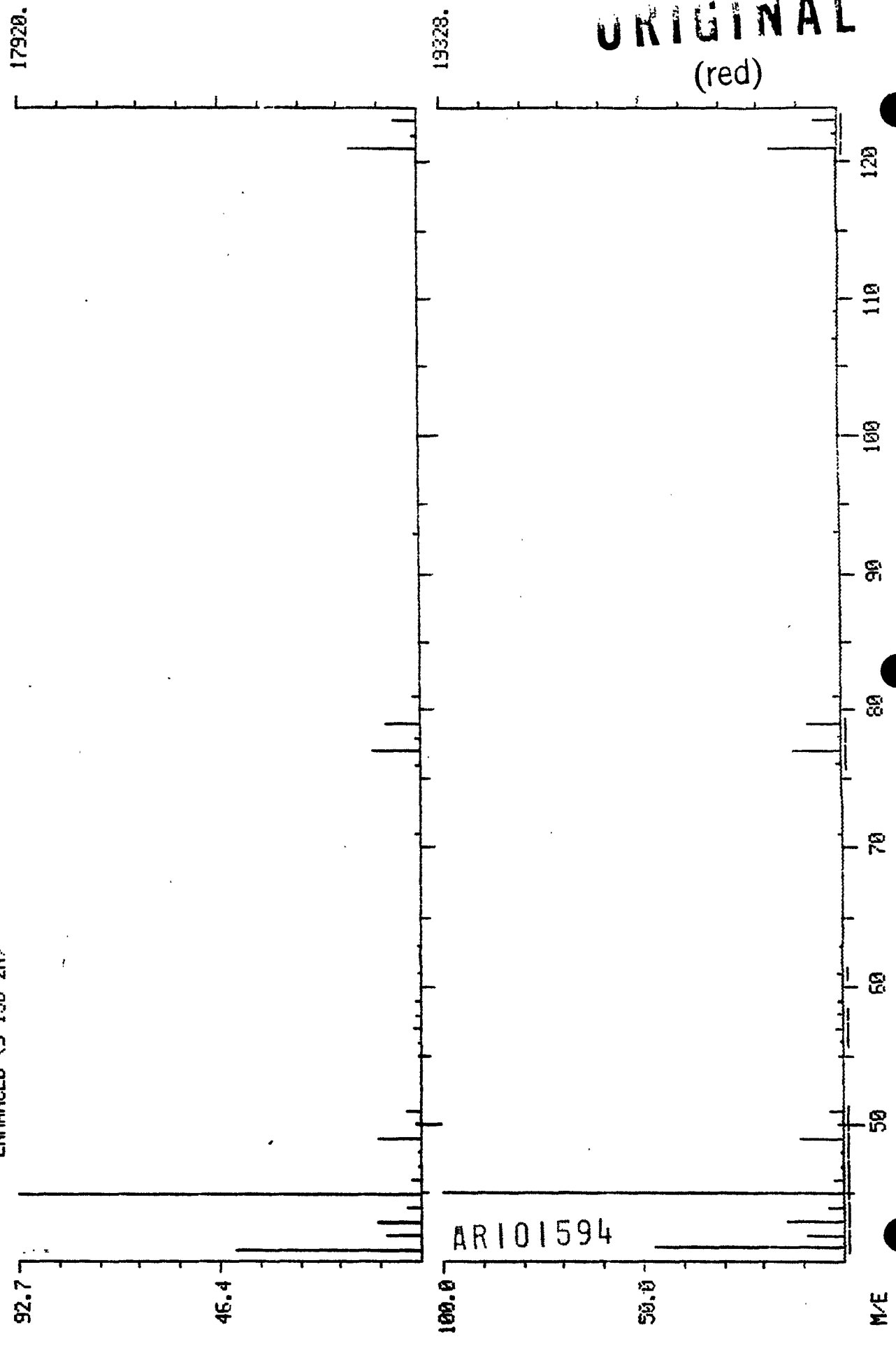
C-25

ORIGINAL  
(red)

NEAD COMPUCHEN

DATA: GH025521A16 #933 BASE M/E: 45/ 45  
RIC: 43647./ 48831.

DUAL MASS SPECTRUM  
01/26/93 16:27:00 + 11:40  
SAMPLE: 1.0 UL F50C SAMPLE 25621  
ENHANCED (S 158 2N)



AR101594

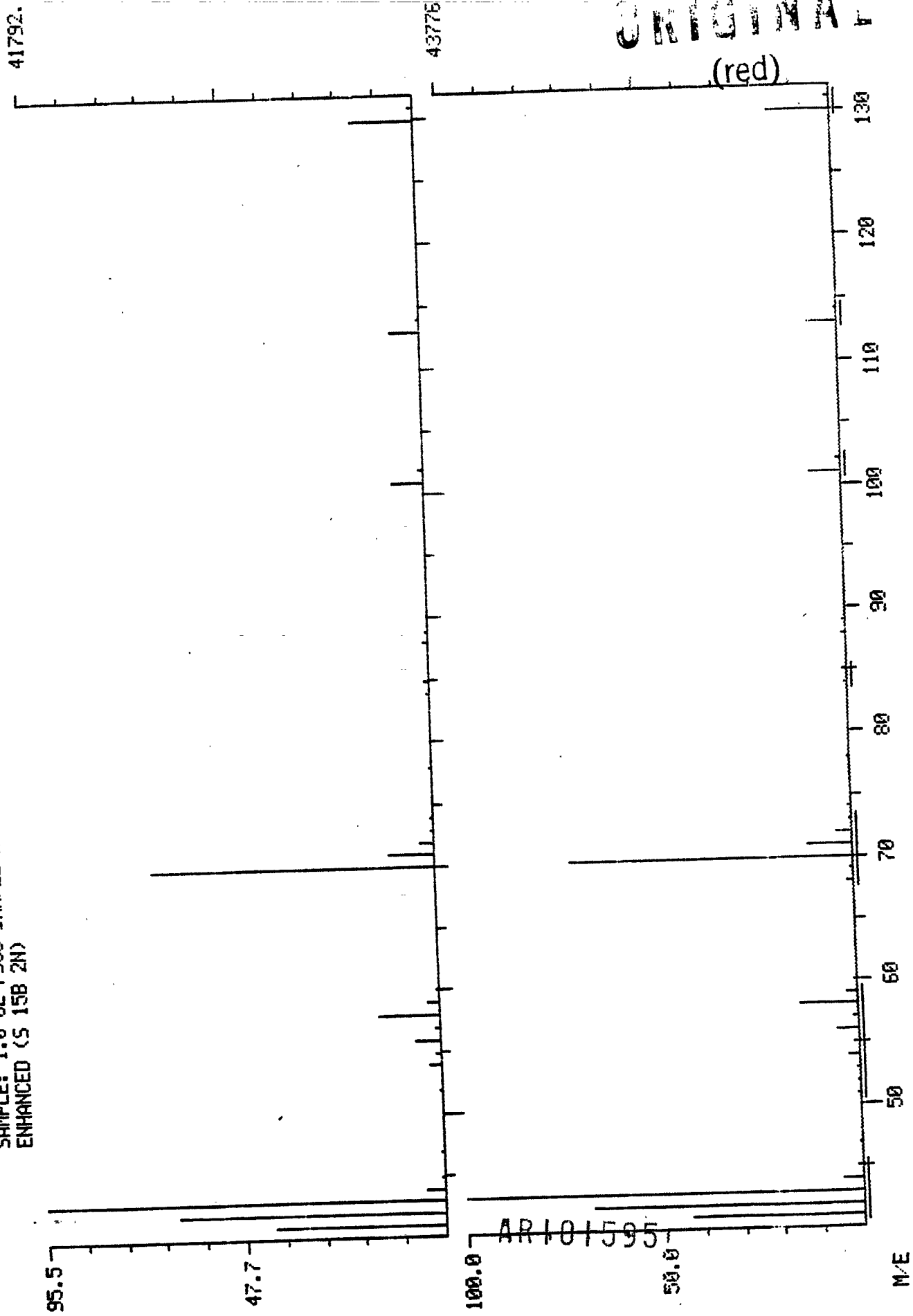
M/E

442

MEAD COMPUTCHEM

DATA: GH025621A16 #957 BASE M/E: 43/ 43  
RIC: 155903./ 163839.

DUAL MASS SPECTRUM  
01/25/83 16:27:00 + 11:58  
SAMPLE: 1.0 UL F50C SAMPLE 25621  
ENHANCED (S 15B 2N)



ORIGINAL  
(red)

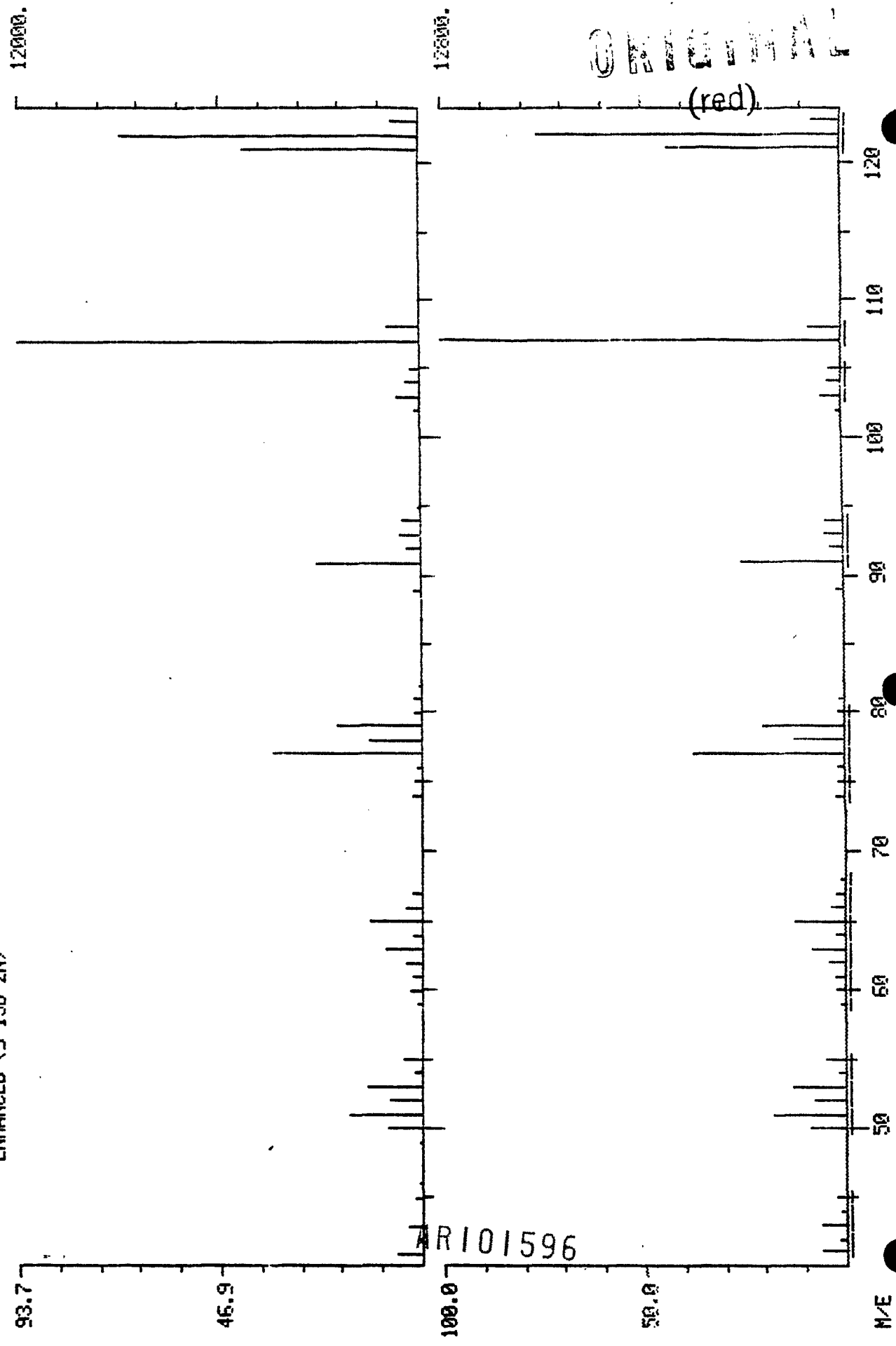
C-20

603

MEAD COMPUTHER

DATA: GH025621A16 #1043 BASE M/E: 107/ 107  
RIC: 56931./ 60991.

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 13:02  
SAMPLE: 1.0 UL F50C SAMPLE 25621  
ENHANCED (S 15B 2N)



521

ORIGINAL

602

MEAD COMPUTHER

DATA: CH025621416 #1081 BASE M/E: 162/ 162  
RIC: 46271./ 51583.

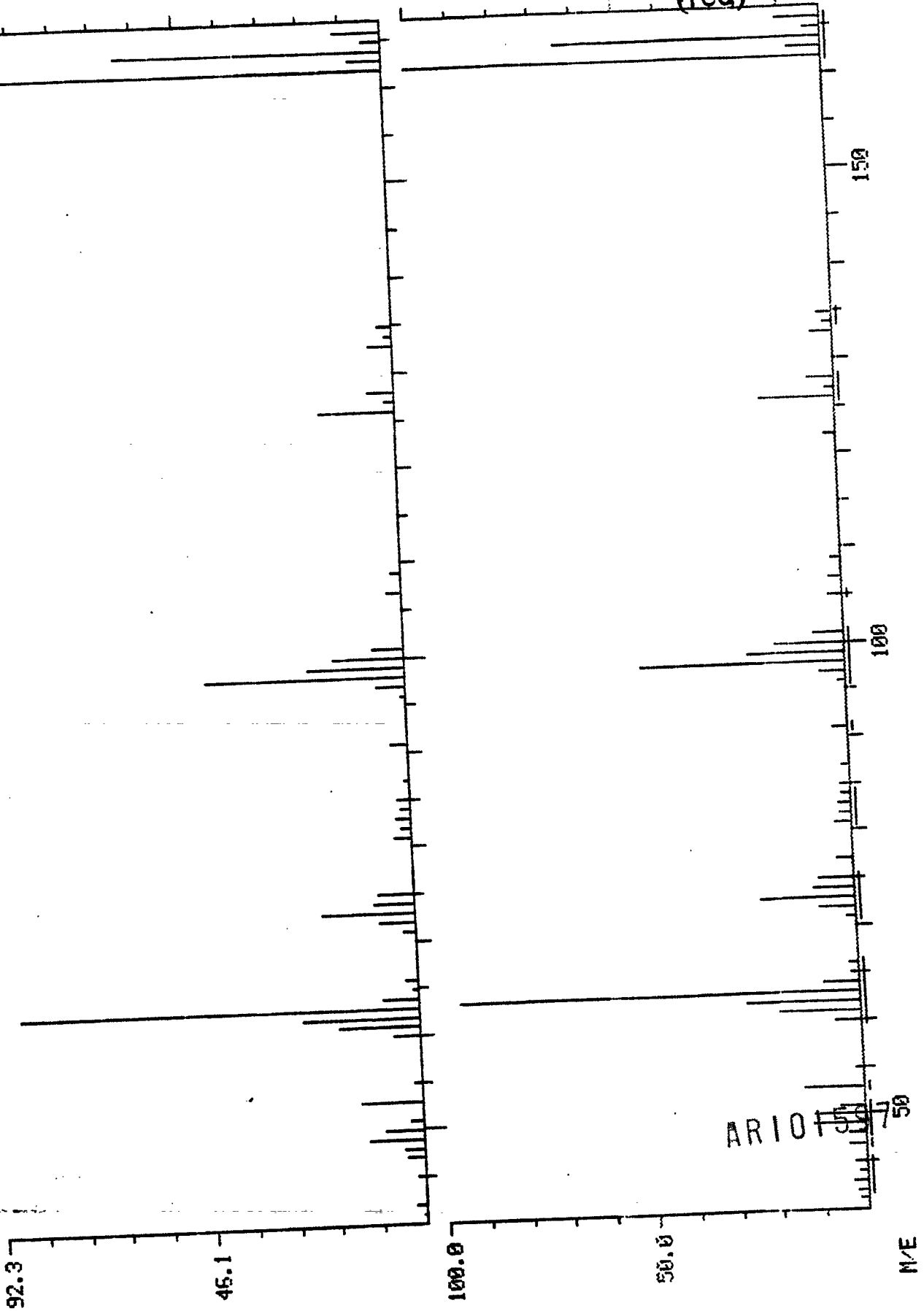
DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 13:31  
SAMPLE: 1.0 UL F50C SAMPLE 25621  
ENHANCED (S 15B 2H)

7472.

8096.

ORIGINAL

(red)



146

C 27

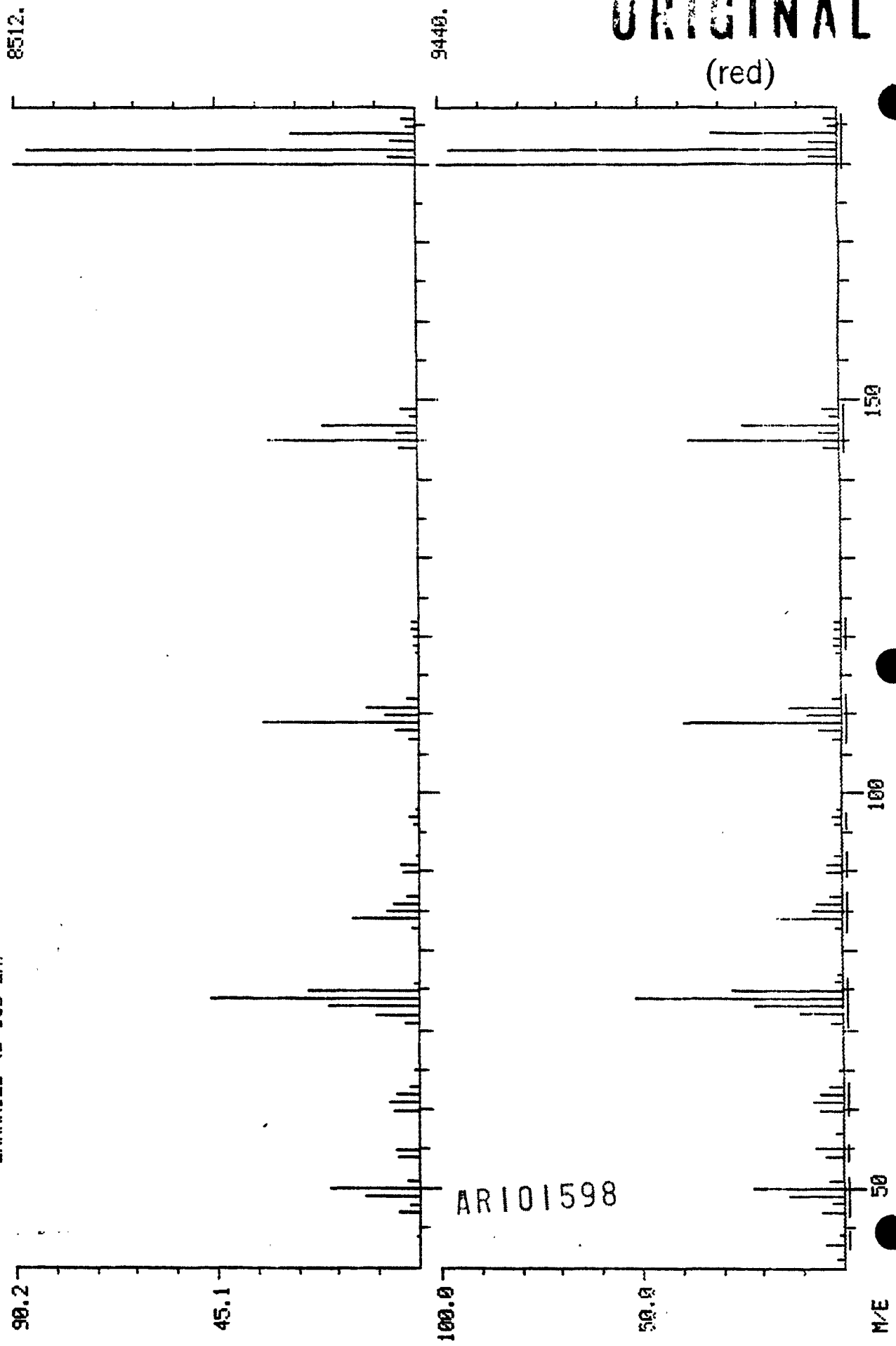
ORIGINAL

(red)

NEAD COMPUCHEM

DATA: GH025621A16 #1097 BASE M/E: 180/ 180  
RIC: 54947./ 62655.

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 13:43  
SAMPLE: 1.0 UL F50C SAMPLE 25621  
ENHANCED (S 156 2N)



AR101598

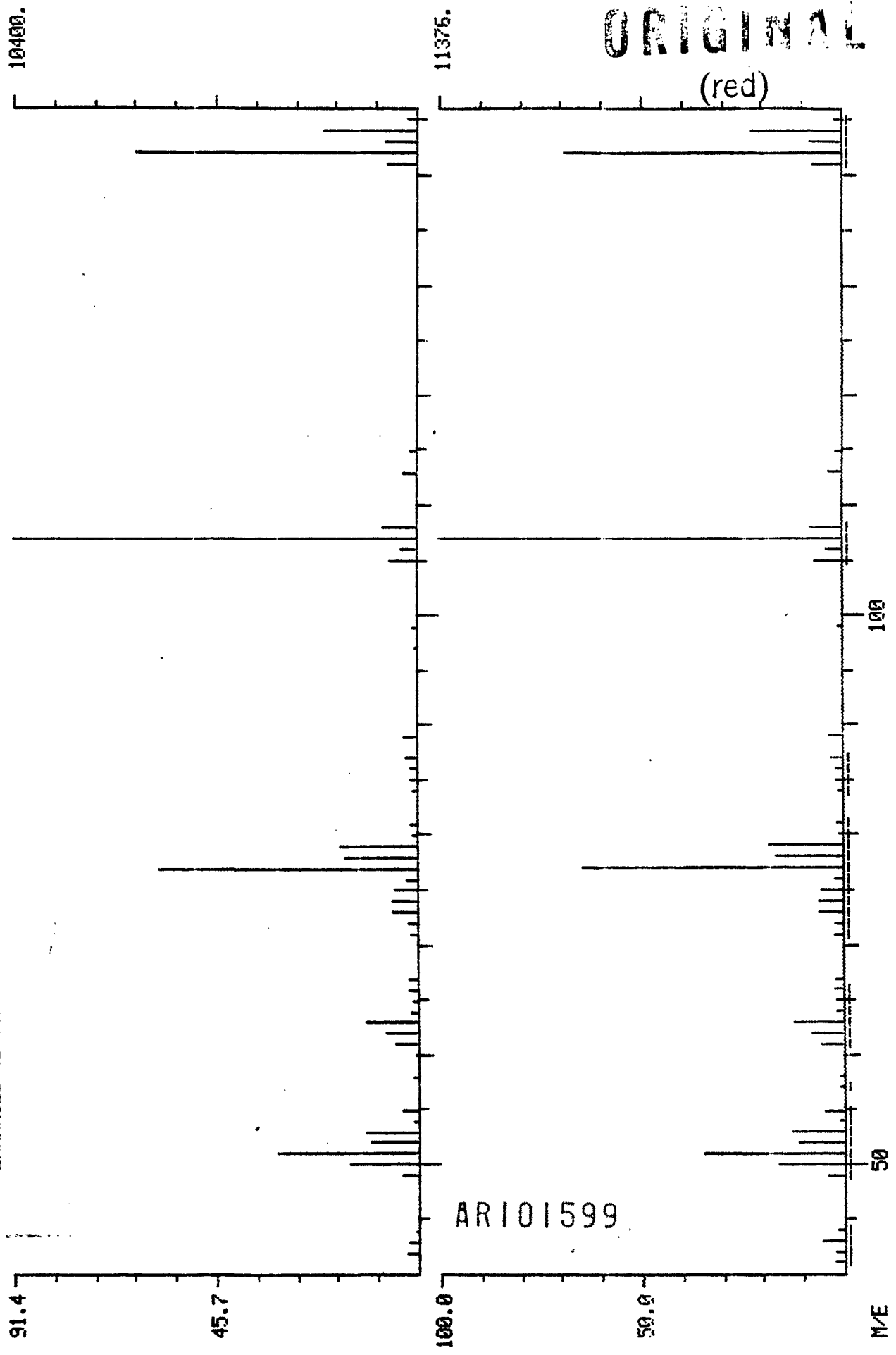
m/e

608

MEAD COMPUTHERM

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 15:04  
SAMPLE: 1.0 UL F5CC SAMPLE 25621  
ENHANCED (S 158 2N)

DATA: CH025621A15 #1205 BASE M/E: 107/ 107  
RIC: 522231/ 57407.



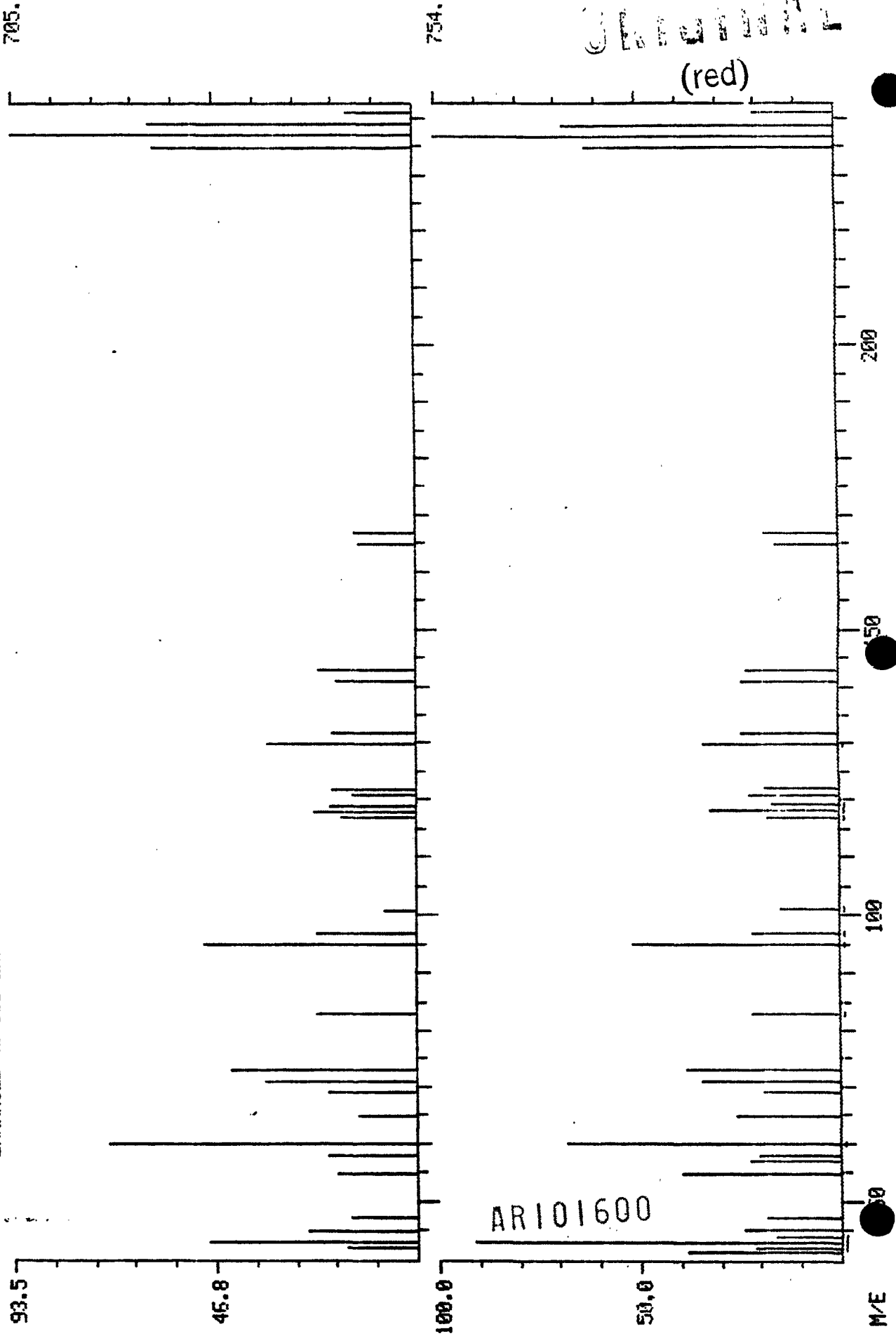
AR101599

51

MEAD COMPUCHEM

DUAL MASS SPECTRUM  
01/25/83 16:27:00 + 15:55  
SAMPLE: 1.0 UL F500 SAMPLE 25621  
ENHANCED (S 158 2N)

DATA: GH025621A16 #1273 BASE M/E: 237/ 237  
RIC: 6555./ 8207.



AR101600  
(red)

M/E

4202

ORIGINAL

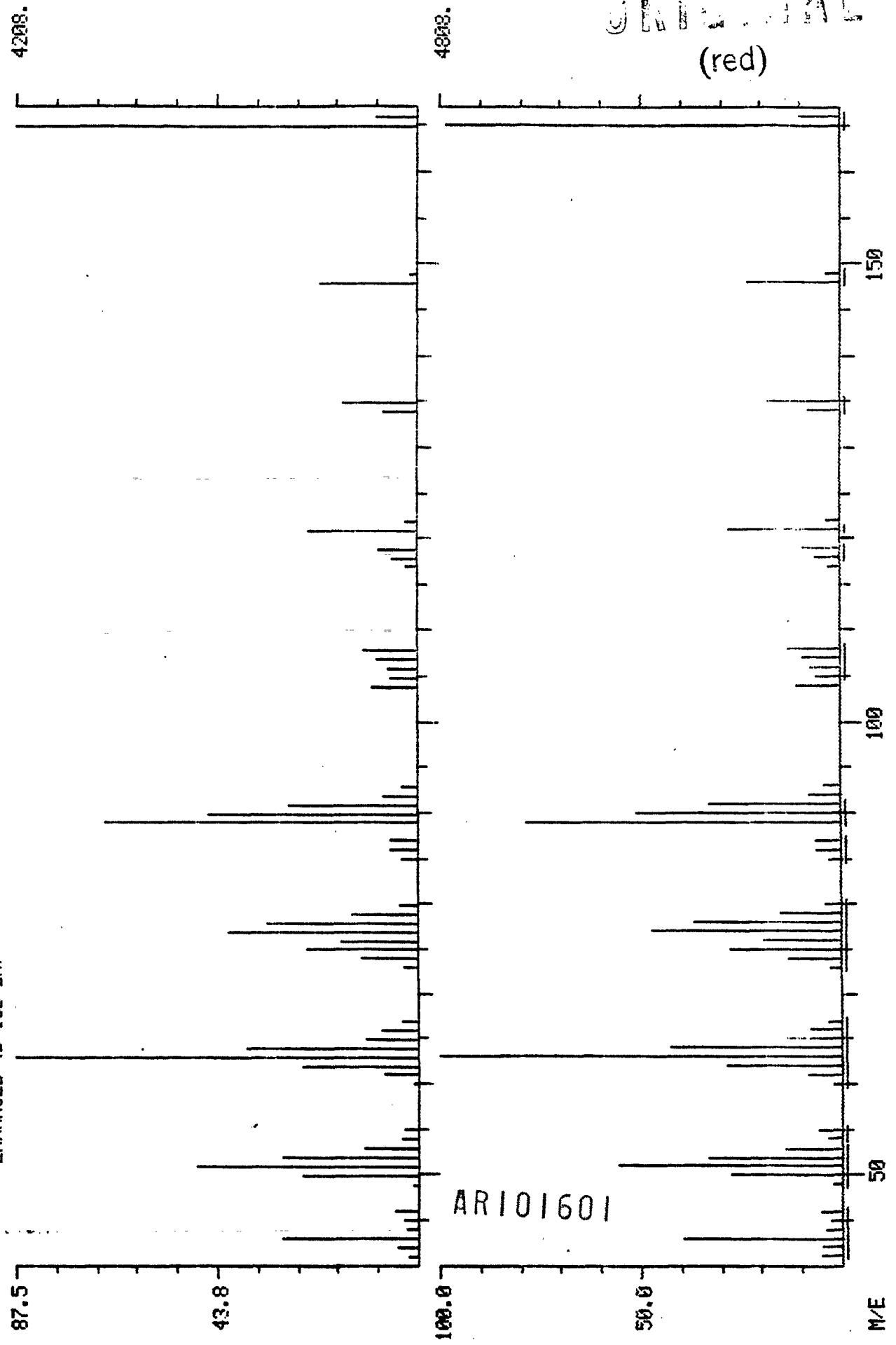
(red)

428

MEAD CONFUCHEN

DATA: GH025621A16 #1396 BASE M/E: 165/ 63  
RIC: 430071/ 49023.

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 17:27  
SAMPLE: 1.0 UL F5CC SAMPLE 25621  
ENHANCED (S 158 2H)



AR101601



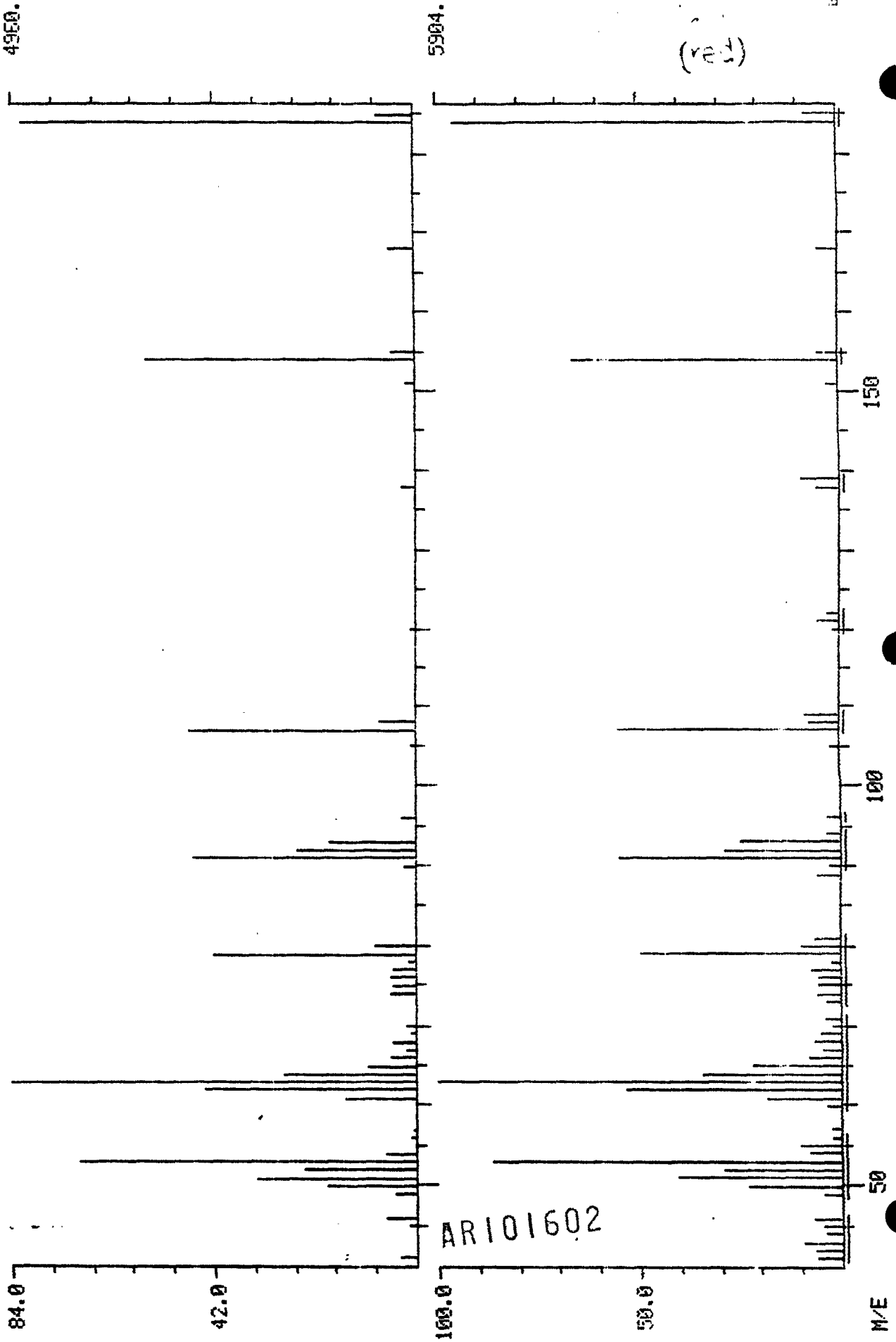
605

6-25

MEAD COMPUTHER

DATA: GH025621A16 #1441 BASE M/E: 53/ 53  
RIC: 44031./ 59519.

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 18:01  
SAMPLE: 1.0 UL FSOC SAMPLE 25621  
ENHANCED (S 15B 2N)



M/E

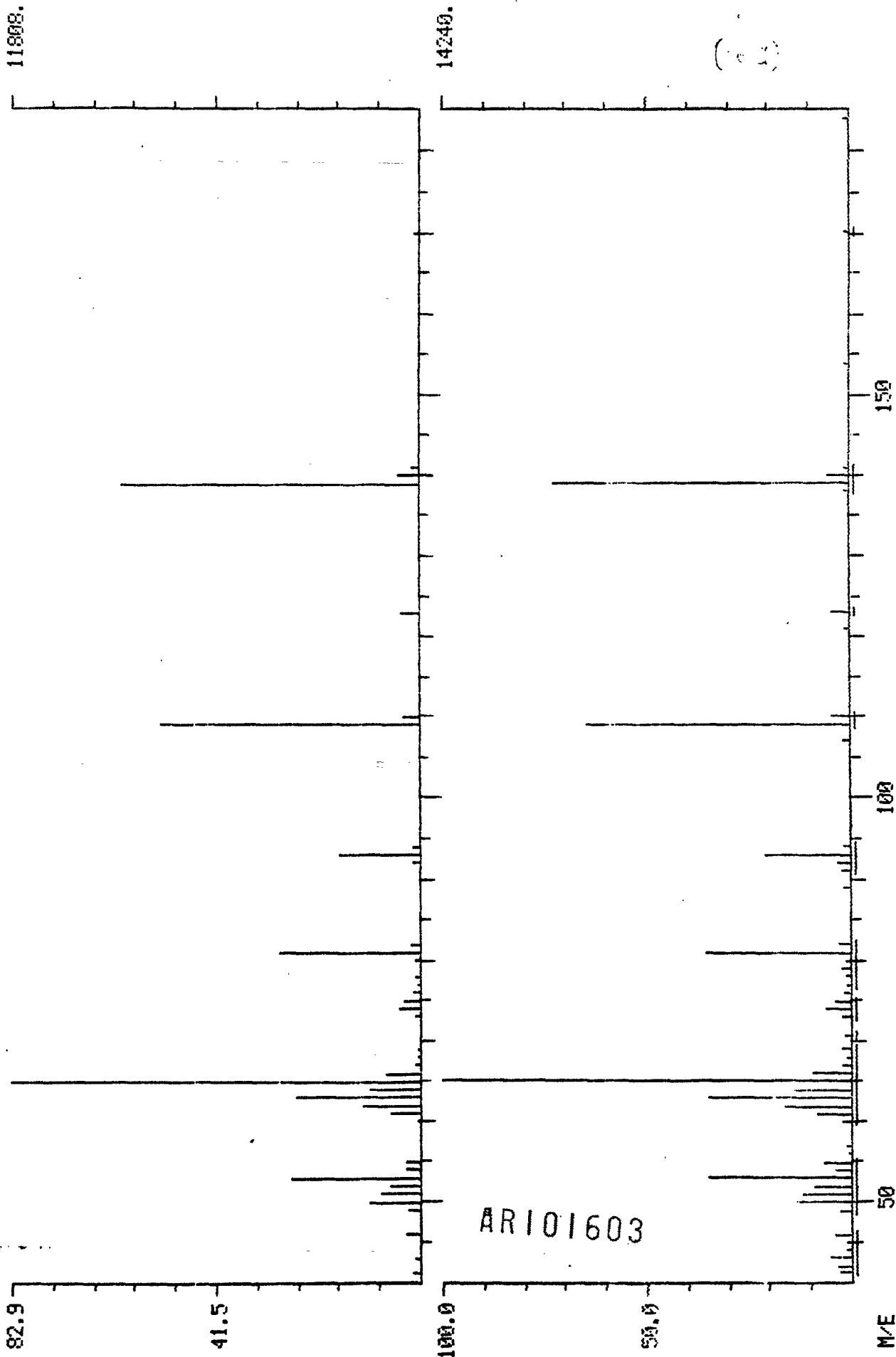
CVI

607

MEAD COMPUTHER

DATA: GH025E21A16 #1453 BASE M/E: 65/ 65  
RIC: 55703.7 77439.

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 12:10  
SAMPLE: 1.0 UL F5CC SAMPLE 25621  
ENHANCED (S 15B 2N)



(11)

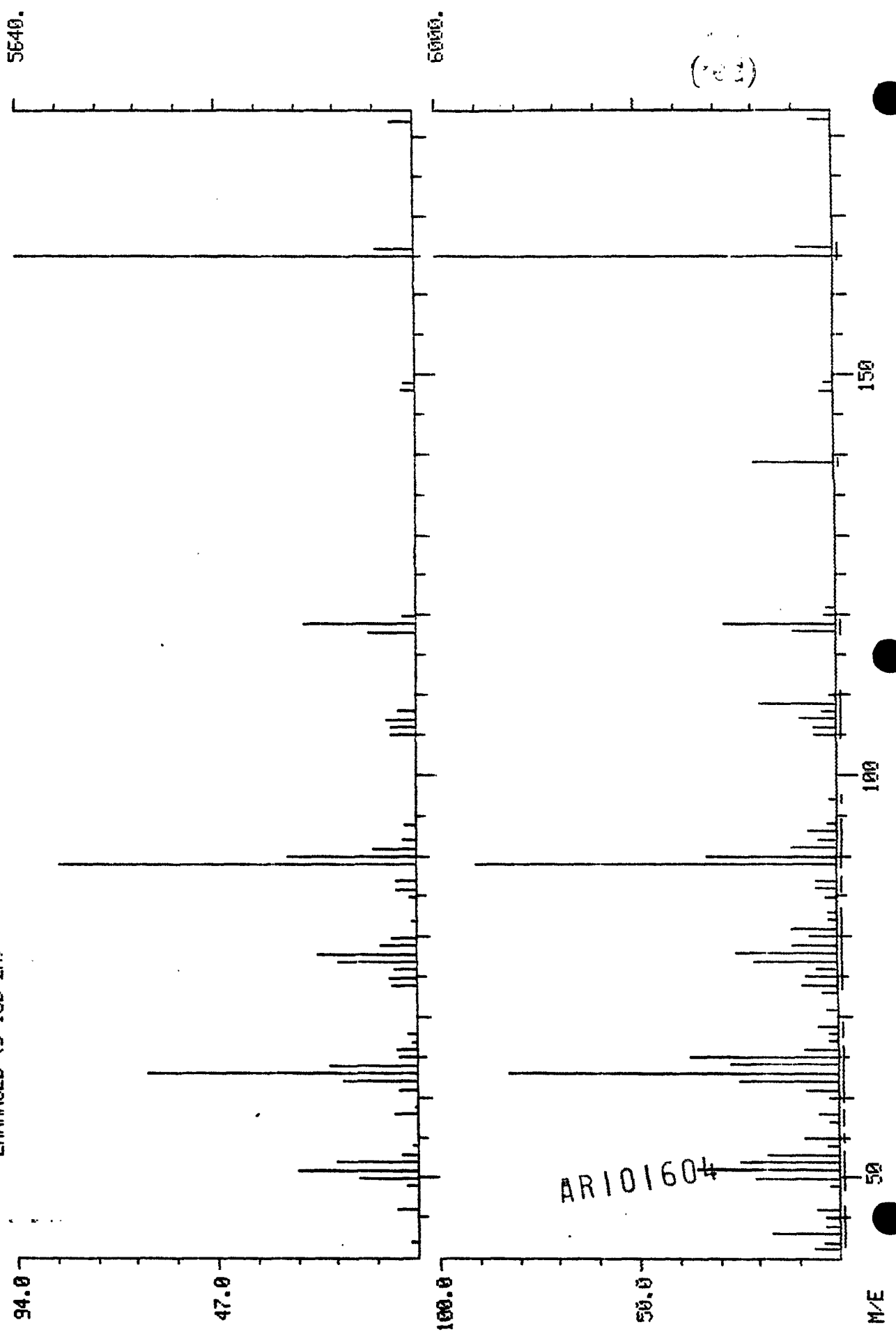
427

50

MEAD COMPUTCHEM

DATA: GH025621A16 #1459 BASE M/E: 165/ 165  
RIC: 35391./ 51583.

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 18:21  
SAMPLE: 1.0 UL F500 SAMPLE 25621  
ENHANCED (S 158 2N)



AR101604

(203)

M/E

150

100

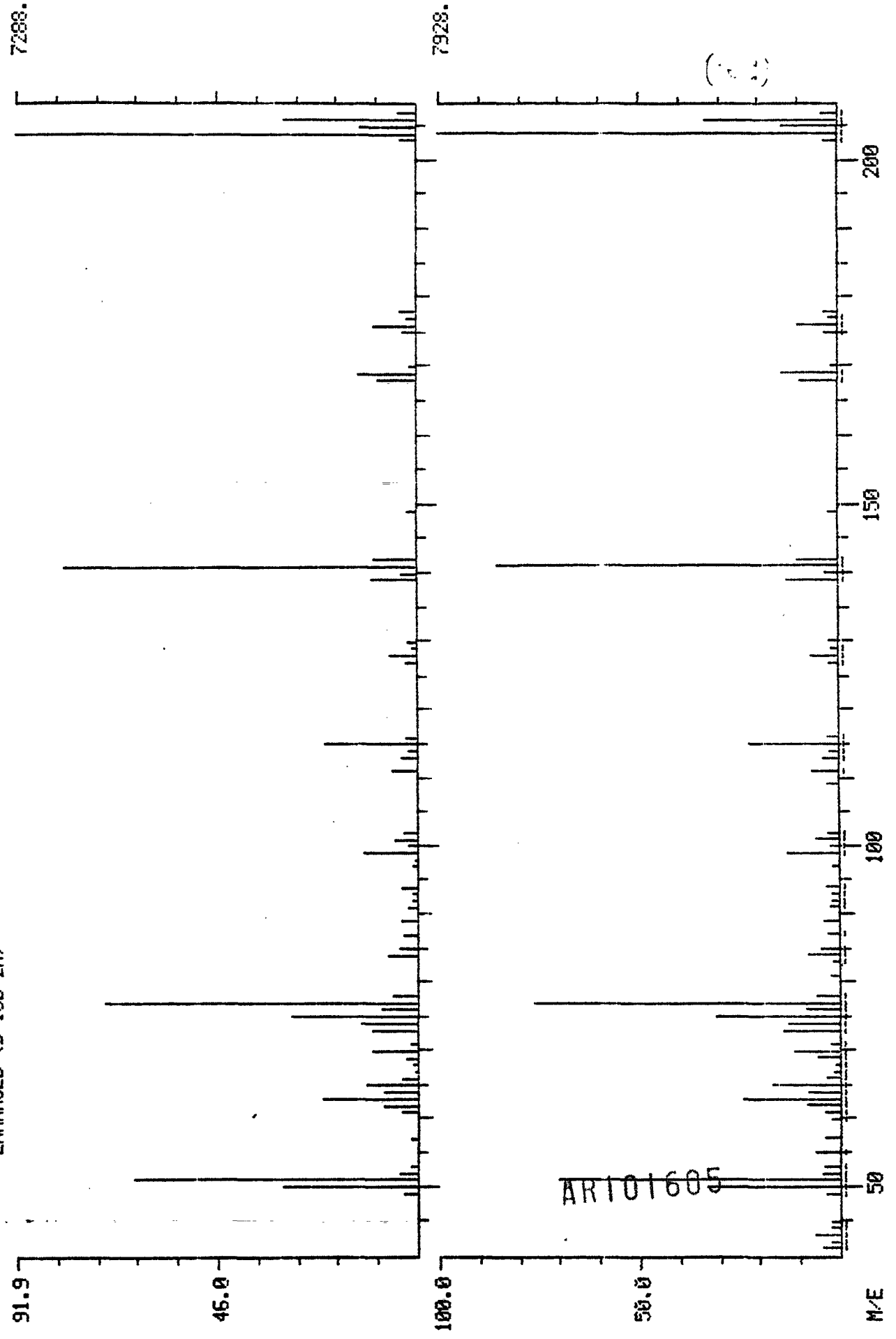
50

417

MEAD COMPUTHEN

DATA: GH025621A16 #1524 BASE M/E: 204/ 204  
RIC: 560631/ 63615.

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 19:03  
SAMPLE: 1.0 UL F5CC SAMPLE 25621  
ENHANCED (S 158 2N)



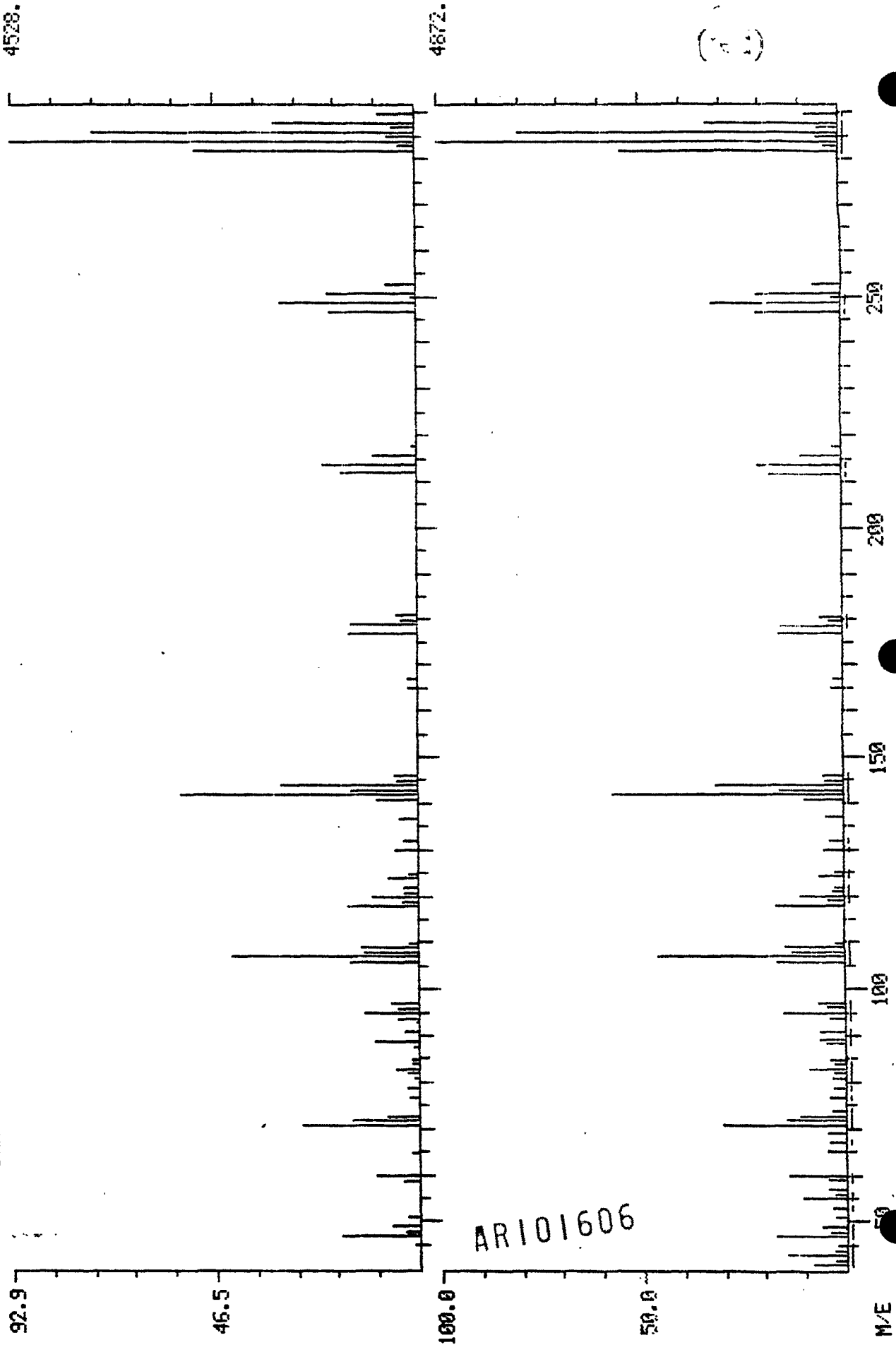
AR101605

433

MEAD COMPUTHER

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 20:32  
SAMPLE: 1.0 UL F5CC SAMPLE 25621  
ENHANCED (S 158 2N)

DATA: GH025621A16 #1643 BASE M/E: 284/ 284  
RIC: 42111./ 48447.



AR101606

(7:2)

C-30

ORIGINAL

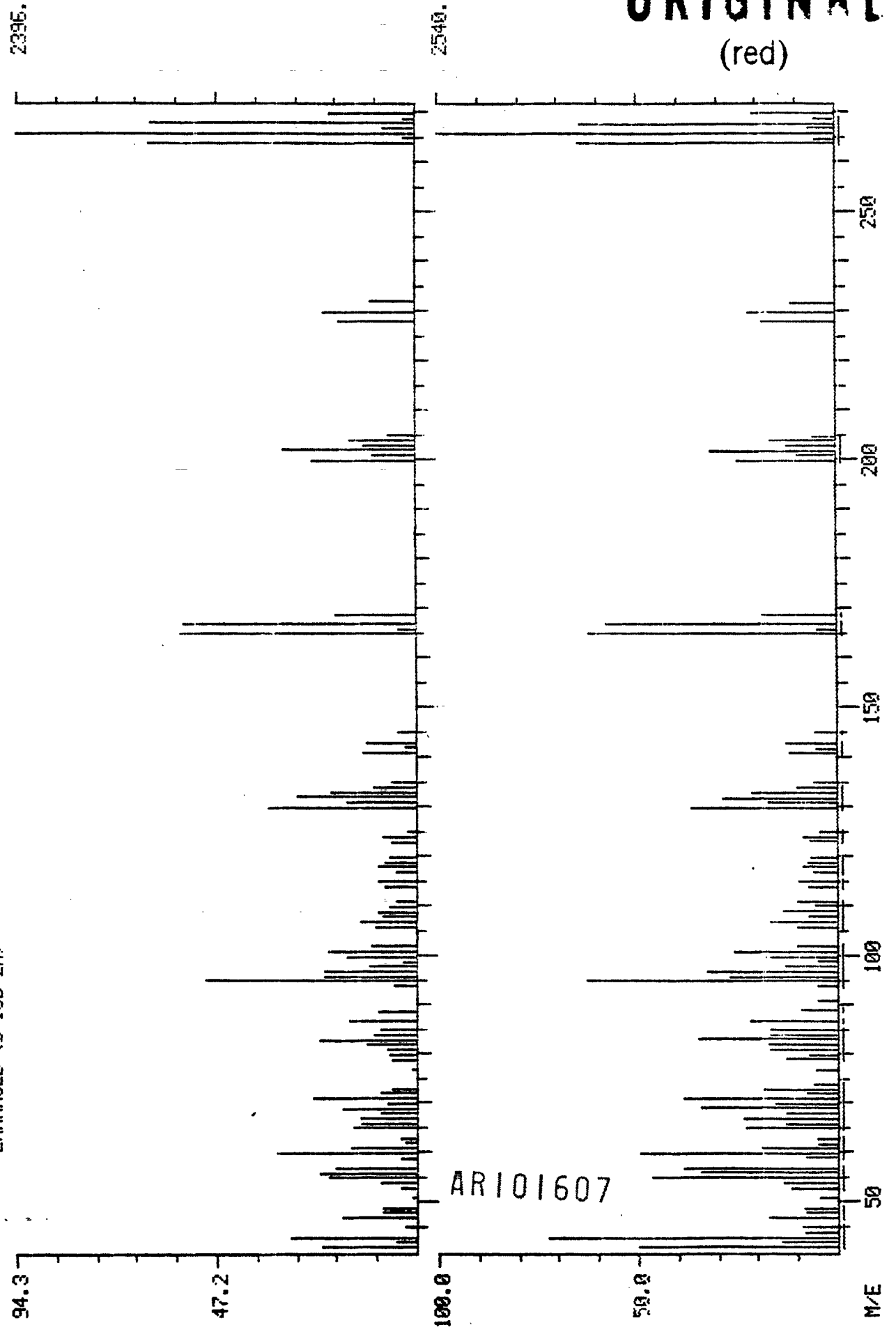
(red)

609

DATA: GH025621A16 #1676 BASE N/E: 266/ 266  
RIC: 35391.1/ 46335.

MEAD COMPUCHEN

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 20:57  
SAMPLE: 1.0 U/L F5CC SAMPLE 25621  
ENHANCED (S 15B 2H)



AR101607

426

C-59

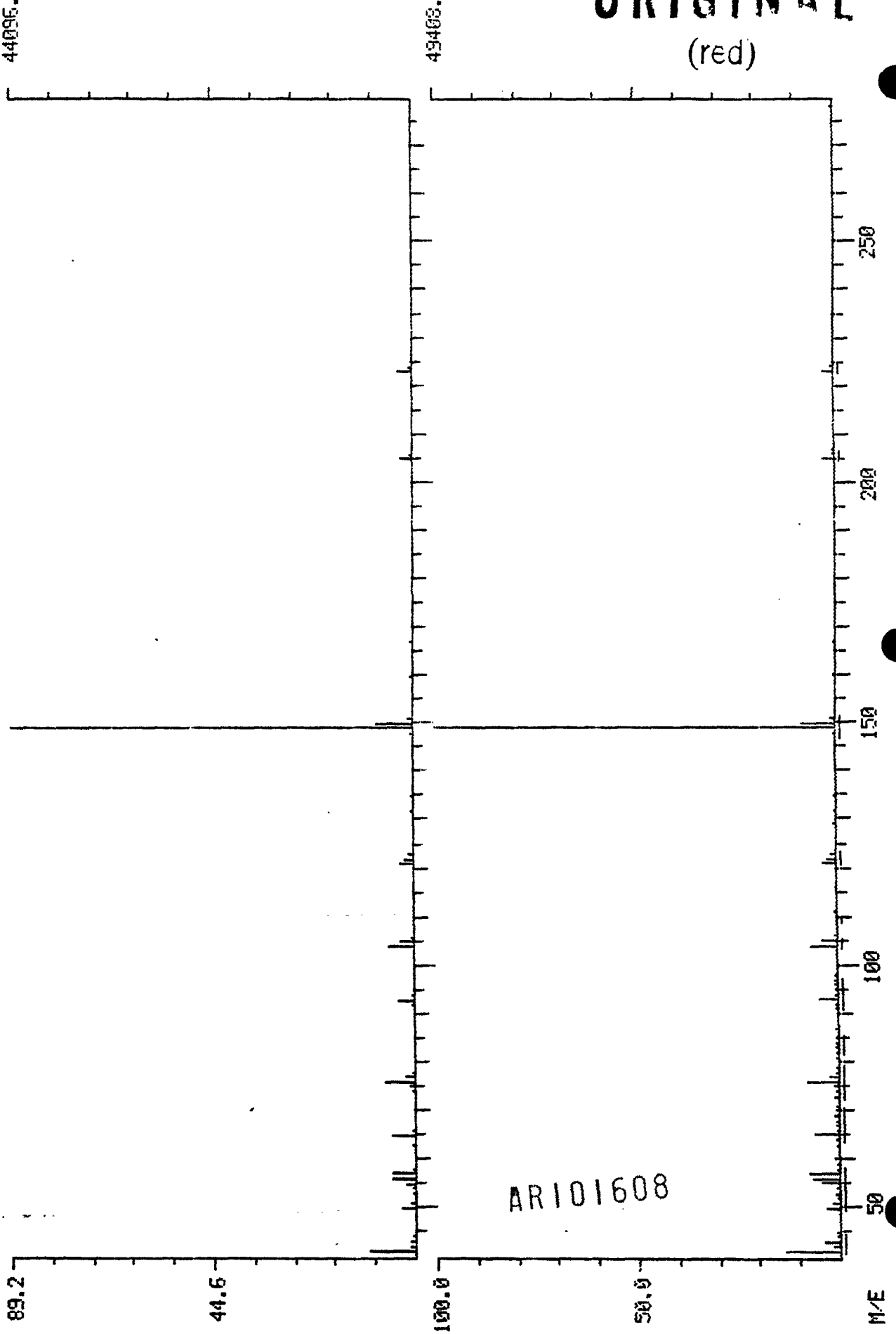
ORIGINAL

(red)

MEAD COMPUCHEM

DATA: GH025621A16 #1808 BASE M/E: 149/ 149  
RIC: 85887./ 109951.

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 22:36  
SAMPLE: 1.0 UL F5CC SAMPLE 25621  
ENHANCED (S 158 2N)



AR101608

M/E

570

ORIGINAL

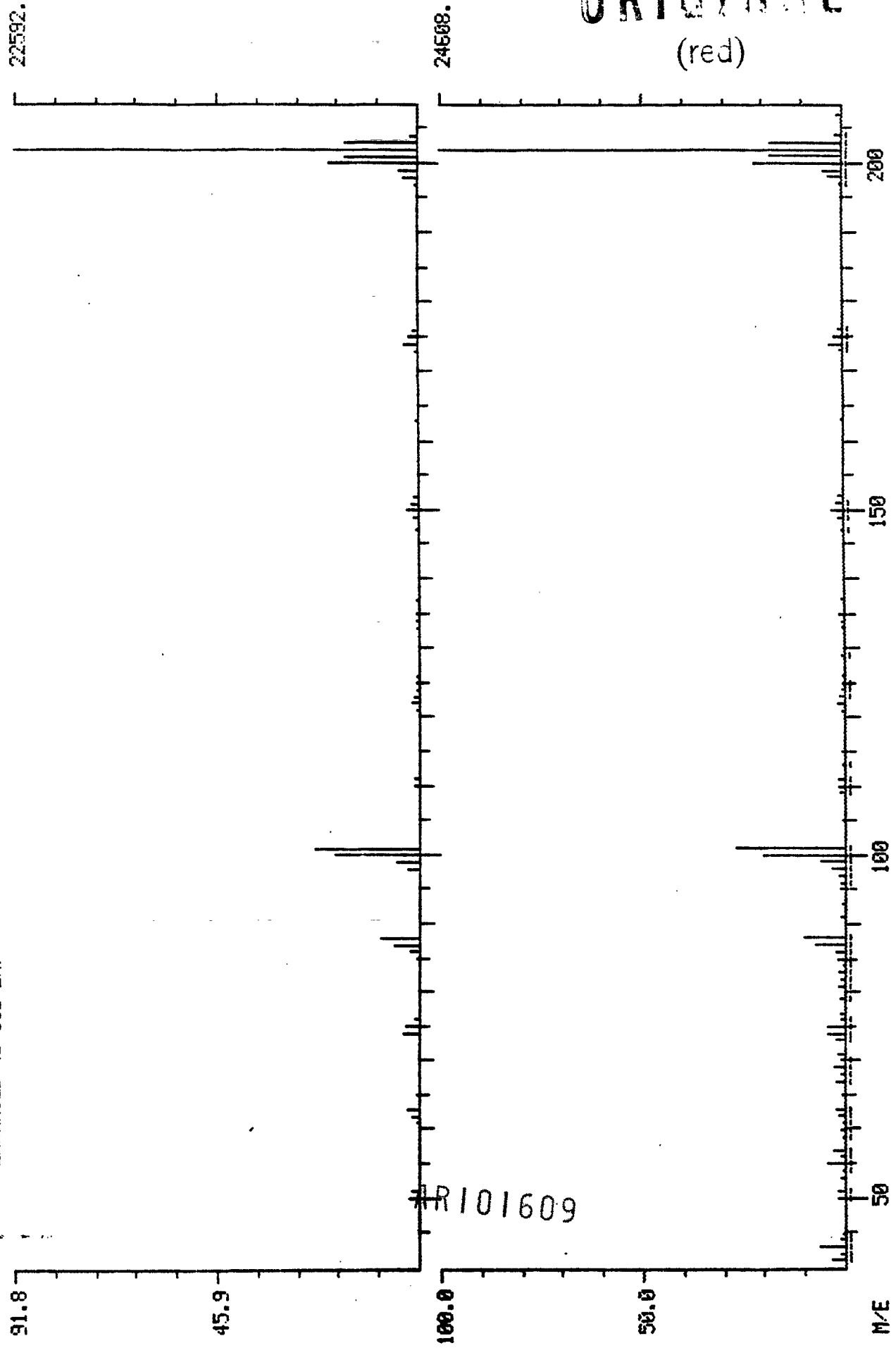
(red)

945

DATA: GH025621A16 #1968 BASE M/E: 202/ 202  
RIC: 64383/ 84735.

MEAD COMPUCHEM

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 24:36  
SAMPLE: 1.0 UL FSOC SAMPLE 25621  
ENHANCED (S 15B 2N)



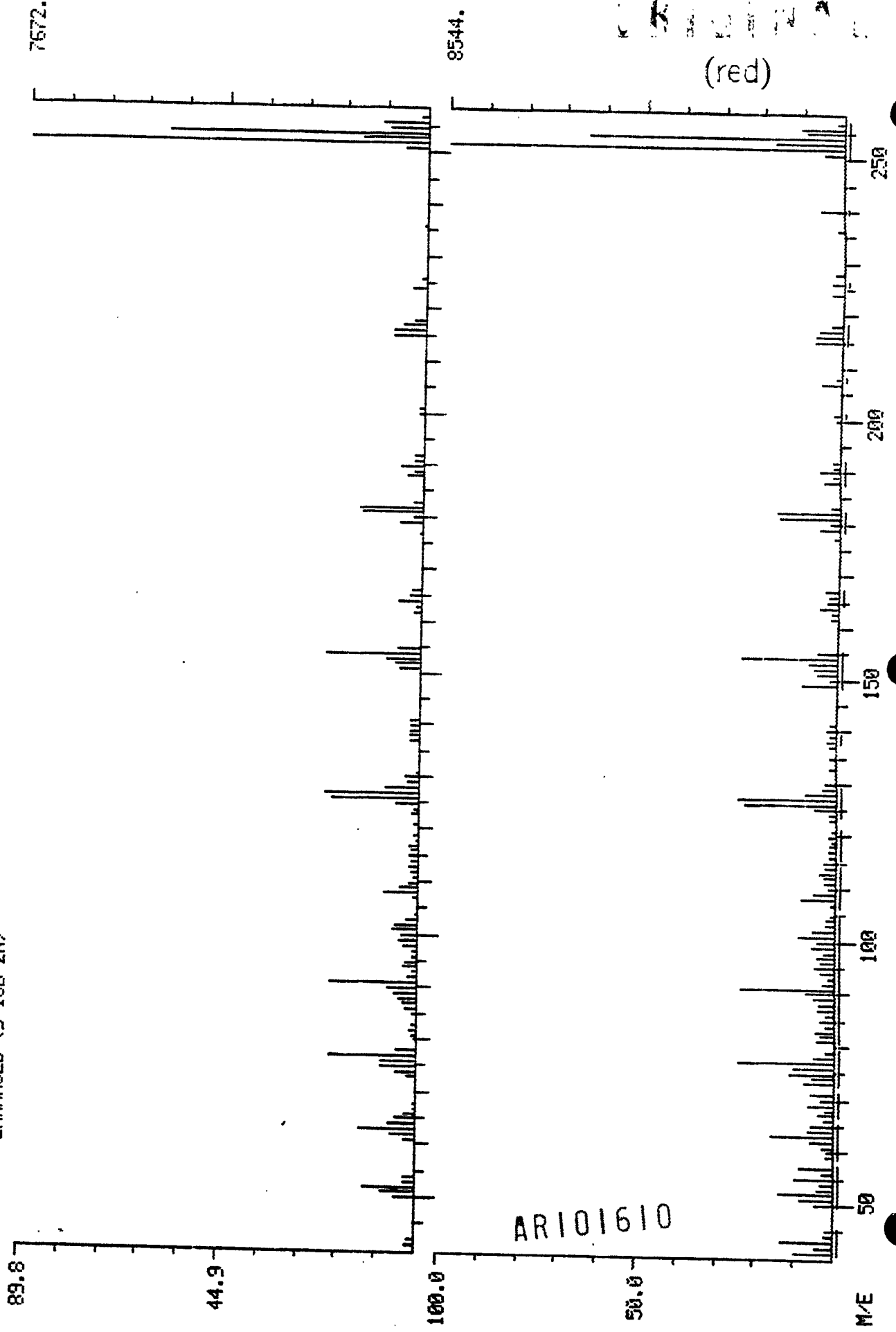


4/23

MEAD COMPUCHEN

DUAL MASS SPECTRUM  
01/25/83 16:27:00 + 27.46  
SAMPLE: 1.0 UL F50C SAMPLE 25621  
ENHANCED (S 15B 2H)

DATA: GH025621A16 #2221 BASE M/E: 252/ 252  
RIC: 53375./ 72319.



C-71

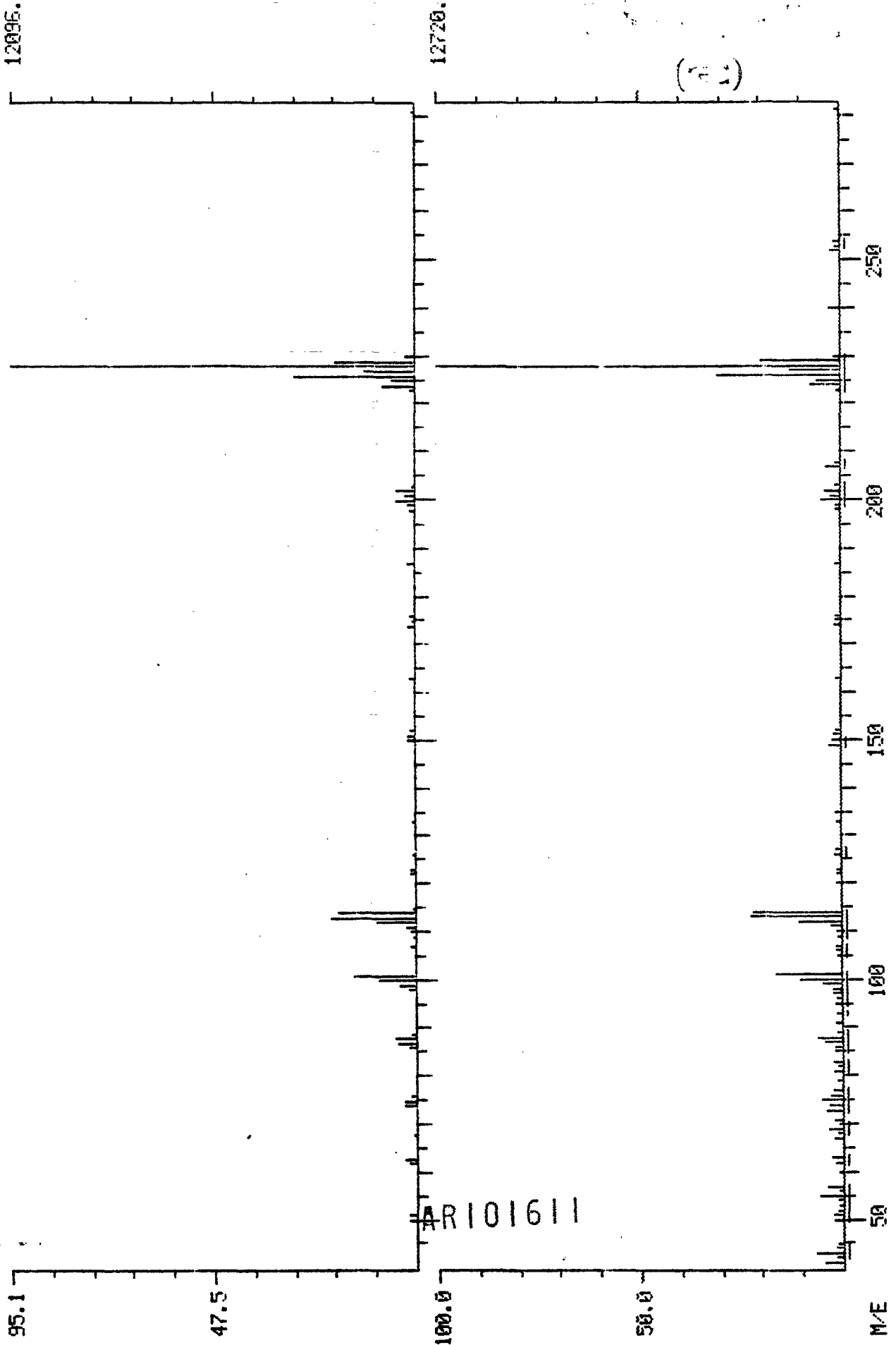
418

C-72

MEAD COMFUCHEM

DATA: GH025621A16 #2242 BASE M/E: 228/ 228  
RIC: 38783./ 53439.

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 28:01  
SAMPLE: 1.0 UL F500 SAMPLE 25621  
ENHANCED (S 15B 2N)



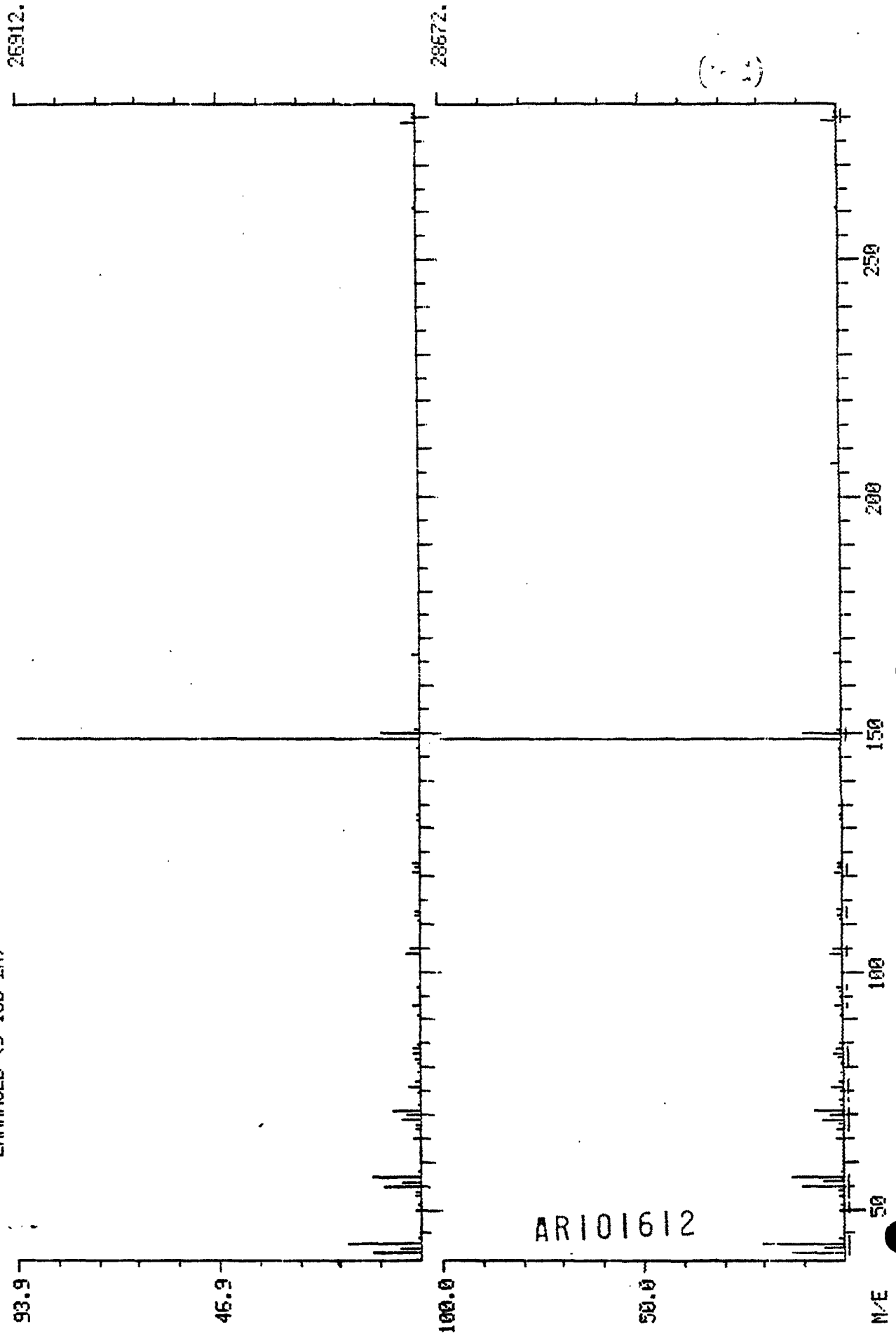
429

C-43

HEAD COMPUCHEM

DATA: GH025621A16 #2441 BASE M/E: 149/ 149  
RIC: 61375, / 69631.

DUAL MASS SPECTRUM  
01/26/93 16:27:00 + 30:31  
SAMPLE: 1.0 UL F500 SAMPLE 25621  
ENHANCED (S 158 2N)



M/E

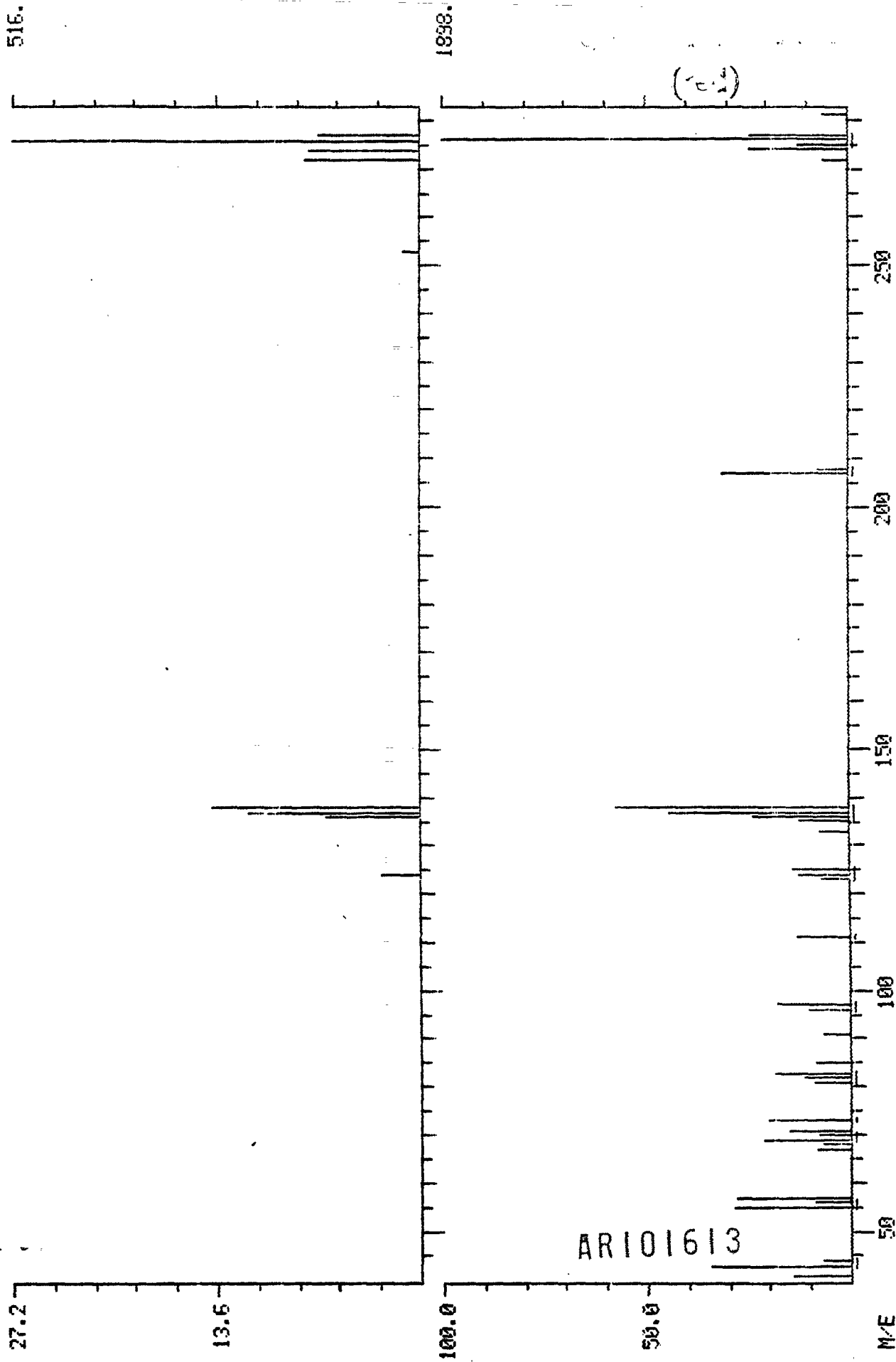
C-74

Yos

MEAD COMPUCHEM

DATA: GM025621A16 #3776 BASE M/E: 276/ 276  
RIC: 1595./ 12991.

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 47:12  
SAMPLE: 1.0 UL F500 SAMPLE 25621  
ENHANCED (S 158 2N)



AR101613

ORIGINAL

C-70

(red)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	294	3:40	3	0.831	A BV	1088420	35.343	5.89
2	RIC	304	3:48	3	0.859	A VB	329232	10.691	1.78
3	RIC	354	4:25	3	1.000	A BB	3079650	100.000	16.65
4	RIC	373	4:40	3	1.054	A BB	7600	0.247	0.04
5	RIC	387	4:50	3	1.093	A BV	11508	0.374	0.06
6	RIC	394	4:55	3	1.113	A VB	9978	0.324	0.05
7	RIC	410	5:07	3	1.158	A BV	14541	0.472	0.08
8	RIC	452	5:39	3	1.277	A BB	7752	0.252	0.04
9	RIC	482	6:01	3	1.362	A BB	72283	2.347	0.39
10	RIC	507	6:20	3	1.432	A BV	30808	1.000	0.17
11	RIC	512	6:24	3	1.446	A VV	14046	0.456	0.08
12	RIC	521	6:31	3	1.472	A VB	7014	0.228	0.04
13	RIC	534	6:40	3	1.508	A BB	14992	0.487	0.08
14	RIC	548	6:51	3	1.548	A BV	7381	0.240	0.04
15	RIC	553	6:55	3	1.562	A VV	13364	0.434	0.07
16	RIC	568	7:05	3	1.605	A VB	8334	0.271	0.05
17	RIC	588	7:21	3	1.661	A BB	6839	0.222	0.04
18	RIC	603	7:32	3	1.703	A BB	11532	0.374	0.06
19	RIC	607	7:35	3	1.715	A BV	8106	0.263	0.04
20	RIC	611	7:38	3	1.726	A VB	13484	0.438	0.07
21	RIC	616	7:42	3	1.740	A BB	5724	0.186	0.03
22	RIC	623	7:47	3	1.760	A BB	23552	0.765	0.13
23	RIC	633	7:55	3	1.788	A BV	91040	2.956	0.49
24	RIC	651	8:08	3	1.839	A VB	236744	7.687	1.28
25	RIC	661	8:16	3	1.867	A BB	37232	1.209	0.20
26	RIC	679	8:29	3	1.918	A BB	13678	0.444	0.07
27	RIC	684	8:33	3	1.932	A BV	362723	11.778	1.96
28	RIC	699	8:44	3	1.975	A VB	67484	2.191	0.36
29	RIC	711	8:53	3	2.008	A BB	18830	0.611	0.10
30	RIC	716	8:57	3	2.023	A BB	17588	0.571	0.10
31	RIC	740	9:15	3	2.090	A BV	51468	1.671	0.28
32	RIC	752	9:24	3	2.124	A VV	8623	0.280	0.05
33	RIC	782	9:46	3	2.209	A BB	79217	2.572	0.43
34	RIC	807	10:05	3	2.280	A BV	286546	9.304	1.55
35	RIC	818	10:13	3	2.311	A VV	342606	11.125	1.85
36	RIC	828	10:21	3	2.339	A VV	346520	11.252	1.87
37	RIC	842	10:31	3	2.379	A VB	142208	4.618	0.77
38	RIC	853	10:40	3	2.410	A BB	183131	5.946	0.99
39	RIC	885	11:04	3	2.500	A BV	171466	5.568	0.93
40	RIC	893	11:10	3	2.523	A VB	7114	0.231	0.04
41	RIC	908	11:21	3	2.565	A BB	87982	2.857	0.48
42	RIC	926	11:34	3	2.616	A BV	48885	1.587	0.26
43	RIC	933	11:40	3	2.636	A VV	198173	6.435	1.07
44	RIC	945	11:49	3	2.669	A VB	20548	0.667	0.11
45	RIC	957	11:58	3	2.703	A BV	632999	20.554	3.42
46	RIC	963	12:02	3	2.720	A VB	53001	1.721	0.29

MOUNT=AREA(HGHT) \* REF AMNT/(REF AREA(HGHT)) \* RESP FACT

UMMITTED BY: OMA#19 ANALYST: 602

ATA: CH025621A16.TI 1/26/83 15:27:00

Sample 100

QUANTITATION REPORT FILE: EXTRA

MEAD COMPUHEM

419101614

1800000

(102)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
47	RIC	981	12:16	3	2.771	A BV	336042	10.912	1.82
48	RIC	988	12:21	3	2.791	A VV	23815	0.773	0.13
49	RIC	1002	12:31	3	2.831	A VB	251570	8.169	1.36
50	RIC	1011	12:38	3	2.856	A BB	14717	0.478	0.08
51	RIC	1044	13:02	3	2.946	A BB	208959	6.785	1.13
52	RIC	1068	13:21	3	3.017	A BB	305752	9.928	1.65
53	RIC	1081	13:31	3	3.054	A BB	184838	6.002	1.00
54	RIC	1097	13:43	3	3.099	A BB	167238	5.430	0.90
55	RIC	1068	13:21	3	3.017	A BB	284702	9.245	1.54
56	RIC	1081	13:31	3	3.054	A BB	180885	5.848	0.97
57	RIC	1097	13:43	3	3.099	A BV	176349	5.726	0.95
58	RIC	1105	13:49	3	3.121	A VB	173309	5.628	0.94
59	RIC	1122	14:01	3	3.169	A BB	9107	0.296	0.05
60	RIC	1106	14:12	3	3.209	A BB	50038	1.625	0.27
61	RIC	1157	14:28	3	3.268	A BB	29588	0.961	0.16
62	RIC	1178	14:43	3	3.328	A BB	6133	0.199	0.03
63	RIC	1205	15:04	3	3.404	A BB	235234	7.638	1.27
64	RIC	1238	15:28	3	3.497	A BB	45665	1.483	0.25
65	RIC	1252	15:39	3	3.537	A BB	33274	1.080	0.18
66	RIC	1273	15:55	3	3.596	A BB	26034	0.845	0.14
67	RIC	1282	16:01	3	3.621	A BV	15196	0.493	0.08
68	RIC	1302	16:16	3	3.678	A BB	552240	17.932	2.99
69	RIC	1312	16:24	3	3.706	A BB	8809	0.286	0.05
70	RIC	1333	16:40	3	3.766	A BV	92720	3.011	0.50
71	RIC	1309	16:44	3	3.782	A VV	14531	0.472	0.08
72	RIC	1348	16:51	3	3.808	A VB	28286	0.918	0.15
73	RIC	1373	17:10	3	3.879	A BB	12580	0.408	0.07
74	RIC	1396	17:27	3	3.944	A BB	165167	5.363	0.89
75	RIC	1409	17:37	3	3.980	A BV	13515	0.439	0.07
76	RIC	1415	17:41	3	3.997	A VB	33213	1.079	0.18
77	RIC	1434	17:55	3	4.051	A BV	325510	10.570	1.76
78	RIC	1442	18:01	3	4.073	A VV	330608	10.735	1.79
79	RIC	1453	18:10	3	4.105	A VV	411424	13.359	2.22
80	RIC	1462	18:15	3	4.130	A VV	115696	3.757	0.63
81	RIC	1468	18:21	3	4.147	A VB	161792	5.254	0.87
82	RIC	1486	18:34	3	4.198	A BB	27352	0.888	0.15
83	RIC	1499	18:44	3	4.234	A BB	5548	0.188	0.03
84	RIC	1524	19:03	3	4.305	A BB	237052	7.697	1.28
85	RIC	1576	19:42	3	4.452	A BB	38947	1.265	0.21
86	RIC	1605	20:04	3	4.534	A BB	53128	1.725	0.29
87	RIC	1613	20:10	3	4.557	A BB	7272	0.236	0.04
88	RIC	1635	20:26	3	4.619	A BV	81336	2.641	0.44
89	RIC	1643	20:32	3	4.641	A VB	169144	5.492	0.91
90	RIC	1659	20:44	3	4.686	A BB	26484	0.860	0.14
91	RIC	1667	20:50	3	4.709	A BB	23672	0.767	0.13
92	RIC	1676	20:57	3	4.734	A BV	168232	5.463	0.91
93	RIC	1686	21:04	3	4.763	A VV	178464	5.795	0.97
94	RIC	1694	21:10	3	4.785	A VV	134458	4.366	0.73
95	RIC	1700	21:15	3	4.802	A VV	212694	6.906	1.15
96	RIC	1708	21:21	3	4.825	A VB	22000	0.714	0.12
97	RIC	1714	21:25	3	4.842	A BB	29512	0.958	0.16
98	RIC	1735	21:41	3	4.901	A BB	45224	1.468	0.24
99	RIC	1745	21:49	3	4.929	A BV	17232	0.560	0.09
100	RIC	1753	21:55	3	4.952	A VV	104574	3.396	0.57
101	RIC	1765	22:04	3	4.986	A VB	288288	9.361	1.56
102	RIC	1781	22:15	3	5.031	A BV	297984	9.676	1.61

800

(red)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
125	RIC	1993	22:25	3	5.065	A VB	976896	31.721	5.28
124	RIC	1808	22:36	3	5.105	A VB	296400	9.624	1.60
123	RIC	1825	22:49	3	5.155	A BV	77409	2.514	0.42
122	RIC	1837	22:58	3	5.189	A VV	45768	1.486	0.25
121	RIC	1844	23:03	3	5.209	A VB	20199	0.656	0.11
120	RIC	1852	23:09	3	5.232	A BV	19919	0.647	0.11
119	RIC	1858	23:13	3	5.249	A VV	17464	0.567	0.09
118	RIC	1864	23:18	3	5.266	A VB	12737	0.414	0.07
117	RIC	1883	23:32	3	5.319	A BV	148508	4.822	0.80
116	RIC	1893	23:40	3	5.347	A VV	152753	4.960	0.83
115	RIC	1899	23:44	3	5.364	A VB	93251	3.028	0.50
114	RIC	1909	23:52	3	5.393	A BV	67393	2.188	0.36
113	RIC	1920	24:00	3	5.424	A VV	235301	7.640	1.27
112	RIC	1924	24:03	3	5.435	A VV	159194	5.169	0.86
111	RIC	1933	24:10	3	5.460	A VB	88928	2.888	0.48
110	RIC	1960	24:30	3	5.537	A BV	129676	4.211	0.70
109	RIC	1968	24:36	3	5.559	A VB	265476	8.620	1.44
108	RIC	1982	24:46	3	5.599	A BV	11302	0.367	0.06
107	RIC	1987	24:50	3	5.613	A VB	6282	0.204	0.03
106	RIC	1995	24:56	3	5.636	A BB	7384	0.240	0.04
105	RIC	2008	25:06	3	5.672	A BV	24298	0.789	0.13
104	RIC	2018	25:13	3	5.701	A VV	137552	4.466	0.74
103	RIC	2027	25:20	3	5.726	A VB	15046	0.489	0.08

AR 101616

AR101616

MEAD COMPUCHEM DATA: GH025621A16 SCANS 2200 TO 2275

MASS CHROMATOGRAM  
01/26/83 16:27:00  
SAMPLE: 1.0 UL F5CC SAMPLE 25621

2235  
157.  
428.

100.0

157.

C-49

184

AR101617

184.055  
± 0.500

(12)

2200  
27:30

2210  
27:37

2220  
27:45

2230  
27:52

2240  
28:00

2250  
28:07

2260  
28:15

2270  
28:22

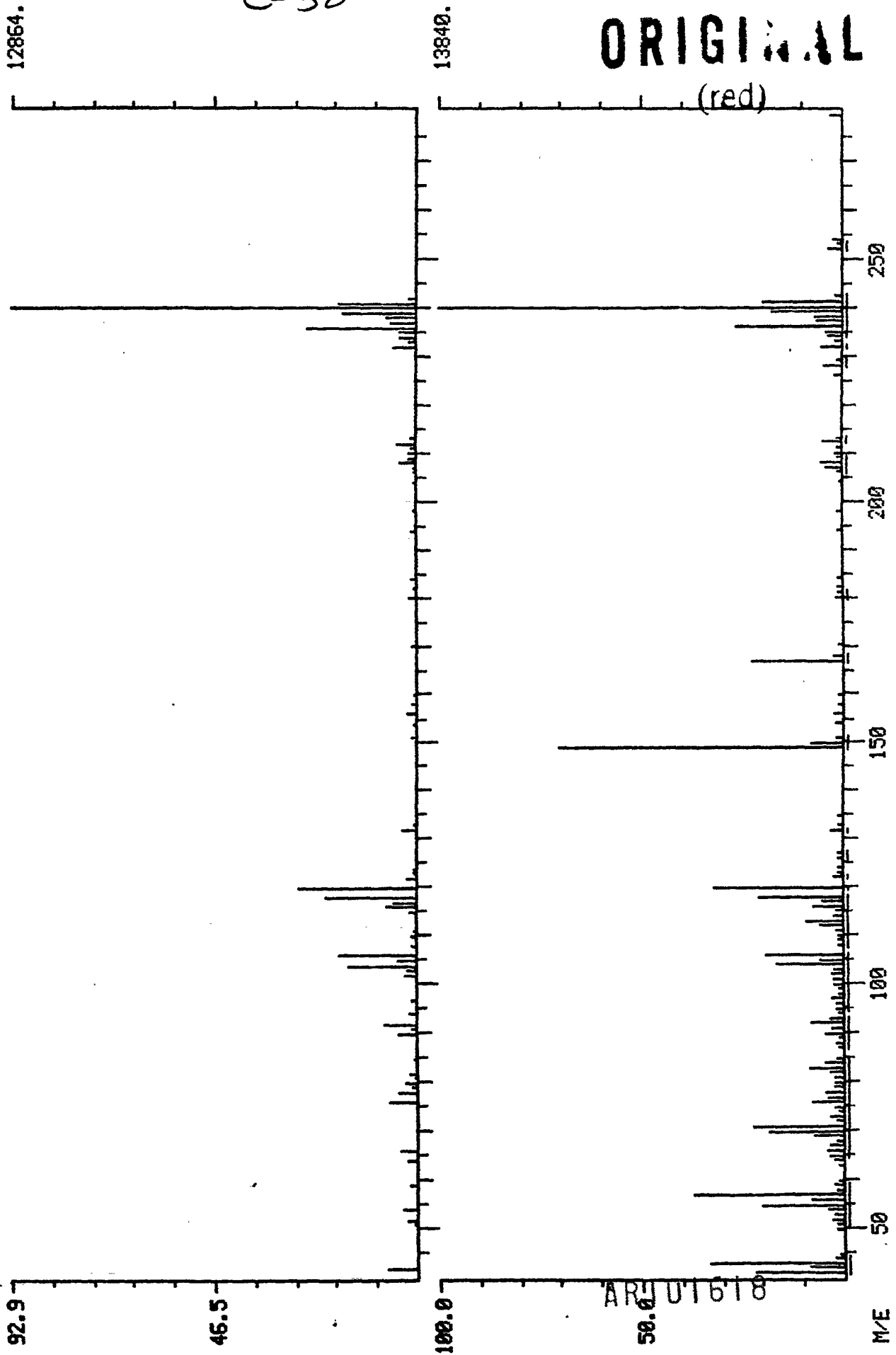
SCAN  
TIME



MEAD COMPUTCHEM

DUAL MASS SPECTRUM  
01/26/83 16:27:00 + 27:56  
SAMPLE: 1.0 UL F50C SAMPLE 25621  
ENHANCED (5 15B 2N)

DATA: GH025621A16 #2235 BASE M/E: 240/ 240  
RIC: 51199./ 109695.



ORIGINAL

LOW LEVEL SOLID

## ORGANICS ANALYSIS DATA SHEET - Page 1

(red)

Laboratory Name Hood CompuChem  
 Lab Sample ID No. Blank 26288  
 Associated Samples 23888-23893, 23895-23897

Case Number 1439  
 QC Report No. 136-57

Multiply all Values and Detection Limits by 1  or 10  or   
 (Check Box for Appropriate Factor)

## ACID COMPOUNDS

PP#	CAS#		ug/kg
(21A)	86-06-2	2,4,6-trichlorophenol	400U
(22A)	59-50-7	p-chloro-m-cresol	400U
(24A)	95-57-8	2-chlorophenol	400U
(31A)	122-83-2	2,4-dichlorophenol	400U
(34A)	105-67-9	2,4-dimethylphenol	400U
(57A)	88-75-5	2-nitrophenol	800U
(58A)	100-02-7	4-nitrophenol	400U
(59A)	91-88-5	2,4-dinitrophenol	2000U
(60A)	934-52-1	4,6-dinitro-2-methylphenol	800U
(64A)	87-36-5	pentachlorophenol	800U
(65A)	108-95-2	phenol	400U

## (Non-Priority Pollutant Hazardous Substances)

65-85-0	benzoic acid	400U
95-48-7	2-methylphenol	400U
108-39-4	4-methylphenol	400U
95-95-4	2,4,5-trichlorophenol	400U

## BASE-NEUTRAL COMPOUNDS

(1B)	83-32-9	acenaphthene	400U
(3B)	92-87-5	benzidine	1600U
(8B)	120-82-1	1,2,4-trichlorobenzene	400U
(9B)	118-74-1	hexachlorobenzene	400U
(12B)	67-72-1	hexachloroethane	400U
(18B)	111-44-4	bis(2-chloroethyl)ether	400U
(20B)	91-58-7	2-chloronaphthalene	400U
(25B)	95-50-1	1,2-dichlorobenzene	400U
(26B)	94-73-1	1,3-dichlorobenzene	400U
(27B)	106-46-7	1,4-dichlorobenzene	400U
(28B)	91-94-1	3,3'-dichlorobenzidine	800U
(35B)	121-14-2	2,4-dinitrotoluene	800U
(36B)	606-20-2	2,6-dinitrotoluene	800U
		1,2-diphenylhydrazine	
(37B)	122-66-7	(as azobenzene)	800U
(39B)	206-44-0	fluoranthene	400U
(40B)	7005-72-3	4-chlorophenyl phenylether	400U
(41B)	101-55-3	4-bromophenyl phenyl ether	400U

## BASE/NEUTRAL COMPOUNDS

PP#	CAS#		ug/kg
(42B)	39638-32-9	bis-(2-chloroisopropyl)ether	800U
(43B)	11-91-1	bis-(2-chloroethoxy)methane	800U
(52B)	87-68-3	hexachlorobutadiene	400U
(53B)	77-47-4	hexachlorocyclopentadiene	400U
(54B)	78-59-1	isophorone	400U
(55B)	91-20-3	naphthalene	400U
(56B)	98-95-3	nitrobenzene	400U
(62B)	86-30-6	N-nitrosodiphenylamine	400U
(63B)	621-64-7	N-nitrosodi-n-propylamine	800U
(66B)	117-81-7	bis(2-ethylhexyl)phthalate	400U
(67B)	85-68-7	butyl benzyl phthalate	400U
(68B)	84-74-2	di-n-butyl phthalate	400U
(69B)	117-84-0	di-n-octyl phthalate	400U
(70B)	84-66-2	diethyl phthalate	400U
(71B)	131-11-3	dimethyl phthalate	400U
(72B)	56-55-3	benzo(a)anthracene	400U
(73B)	50-33-8	benzo(a)pyrene	800U
(74B)	205-99-2	benzo(b)fluoranthene	800U
(75B)	207-08-9	benzo(k)fluoranthene	800U
(76B)	318-01-9	chrysene	400U
(77B)	208-96-8	acenaphthylene	400U
(78B)	120-12-7	anthracene	400U
(79B)	181-24-2	benzo(ghi)perylene	800U
(80B)	86-73-7	fluorene	400U
(81B)	85-01-8	phenanthrene	400U
(82B)	53-70-3	dibenzo(a,h)anthracene	800U
(83B)	183-39-5	indeno(1,2,3-cd)pyrene	800U
(84B)	129-00-0	pyrene	400U

## (Non-Priority Pollutant Hazardous Substances)

62-53-3	aniline	400U
100-51-6	benzyl alcohol	800U
106-47-8	4-chloroaniline	2000U
132-64-9	dibenzofuran	400U
91-57-6	2-methylnaphthalene	800U
88-74-4	2-nitroaniline	4000U
99-09-2	3-nitroaniline	4000U
100-01-6	4-nitroaniline	4000U

AR101619

ORIGINAL

(red)

Lab Name: Mead CompuChem

Lab Sample I.D. No. 26288  
Blank

A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/kg)	(Surrogates only)	
			Spike Added (ug/kg)	% Recovery
2-Fluorophenol	SEMIVOA	5300	5000	106
Pentafluorophenol	SEMIVOA	1400	5000	28
<del>D6-Phenol</del>	<del>SEMIVOA</del>			
D5-Nitrobenzene	SEMIVOA	6100	5000	122
Decafluorobiphenyl	SEMIVOA	6000	5000	120
2-Fluorobiphenyl	SEMIVOA	6600	5000	132
2-Fluoroaniline	SEMIVOA	6600	5000	132

AR101620

HEAD COMPOUCHEN ORGANICS ANALYSIS DATA SHEET

LAB SAMPLE I.D. # 026288

SAMPLE # \_\_\_\_\_

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS  
ANALYTICAL FRACTION: F5006

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	PURITY %	ESTIMATED CONC. (UG/G) OR (UG/L)
1	357	-	SEARCH RESULTS < 80% PURITY	---	100000.

39.999

AR101621

C-54

ORIGINAL

(red) 2/02/83 17:54:04

PROCEDURE: RK  
DATA FILE: GH026288A14  
REFERENCE: FSCC6  
METHOD: FSCC6  
REPORT: FSCC6S1

DIAGNOSTIC REPORT  
INITIALIZATION OPTION: 2  
PROCESSING OPTION: 3

< --- STANDARDS --- >				--- PLUS UNKNOWN --- >				> - LIST NAMES - <	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
4	4	1	337	65	7	1	321	FSCC6S1/FSCC6U1	
2	2	1	0	15	2	1	0	FSCC6S2/FSCC6U2	

79 COMPOUNDS PROCESSED, 10 FOUND

< COMPOUND >			SEARCH					> SAT >		> CHRO >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	F1	1	818	824	827	3	1	983	.	97	827	.	1
2	F2	1	1091	1096	1094	-2	1	996	.	136	1094	.	1
3	F1	20	1286	1290	1288	-2	1	998	.	172	1288	.	1
4	F3	1	1681	1684	1686	2	1	988	.	188	1686	.	1
5	F1	2	480	484	.	.	.	.	.	74	.	.	.
6	F1	3	818	822	.	.	.	.	.	94	.	.	.
7	F1	4	-824	828	.	.	.	.	.	93	826	.	2
8	F1	5	832	836	.	.	.	.	.	93	834	.	3
9	F1	6	843	847	.	.	.	.	.	128	.	.	.
10	F1	7	866	870	.	.	.	.	.	146	.	.	.
11	F1	8	874	878	.	.	.	.	.	146	.	.	.
12	F1	9	905	909	.	.	.	.	.	146	.	.	.
13	F1	10	897	901	.	.	.	.	.	108	.	.	.
14	F1	11	921	925	.	.	.	.	.	121	.	.	.
15	F1	12	916	920	.	.	.	.	.	108	.	.	.
16	F1	13	956	960	.	.	.	.	.	117	.	.	.
17	F1	14	940	944	.	.	.	.	.	108	.	.	.
18	F1	15	676	680	678	-2	1	991	.	112	678	.	1
19	F1	16	808	812	816	4	1	980	.	184	815	-1	2
20	F1	17	970	974	972	-2	1	996	.	82	972	.	1
21	F1	18	987	991	988	-3	1	998	.	334	988	.	1
22	F1	19	798	802	799	-3	1	1000	.	111	799	.	1
23	F2	2	946	950	.	.	.	.	.	130	.	.	.
24	F2	3	973	977	.	.	.	.	.	123	.	.	.
25	F2	4	1012	1016	.	.	.	.	.	82	.	.	.
26	F2	5	1028	1032	.	.	.	.	.	139	.	.	.
27	F2	6	1031	1035	.	.	.	.	.	122	.	.	.
28	F2	7	1049	1053	.	.	.	.	.	93	.	.	.
29	F2	8	1068	1072	.	.	.	.	.	162	.	.	.
30	F2	9	1083	1087	.	.	.	.	.	180	.	.	.
31	F2	10	1108	1112	.	.	.	.	.	127	.	.	.
32	F2	11	1066	1070	.	.	.	.	.	105	.	.	.
33	F2	12	1124	1128	.	.	.	.	.	225	.	.	.
34	F2	13	1191	1195	.	.	.	.	.	107	.	.	.
35	F2	14	1218	1222	.	.	.	.	.	115	.	.	.
36	F2	15	1257	1261	.	.	.	.	.	237	.	.	.
37	F2	16	1273	1277	.	.	.	.	.	194	.	.	.
38	F2	17	1307	1311	.	.	.	.	.	162	.	.	.
39	F2	18	1384	1388	.	.	.	.	.	152	.	.	.
40	F2	19	1366	1370	.	.	.	.	.	163	.	.	.
41	F2	20	1095	1099	.	.	.	.	.	128	.	.	.
42	F2	21	1381	1385	.	.	.	.	.	165	.	.	.
43	F2	22	1453	1457	.	.	.	.	.	165	.	.	.
44	F2	23	1407	1411	.	.	.	.	.	138	.	.	.
45	F2	24	1334	1338	.	.	.	.	.	138	.	.	.
													168

AR101622

48	F2	1	1418	1422
49	F3	2	1428	1432
50	F3	3	-1449	1453
51	F3	4	1510	1513
52	F3	5	1506	1509
53	F3	6	1493	1496
54	F3	7	1527	1530
55	F3	8	1530	1533
56	F3	9	1595	1598
57	F3	10	1624	1627
58	F3	11	1686	1689
59	F3	12	1694	1697
60	F3	13	1906	1909
61	F3	14	1948	1951
62	F3	15	1536	1539
63	F3	16	1787	1790
64	F3	17	1660	1663
65	F3	18	2204	2207
66	F4	1	2199	2202
67	F4	2	2211	2214
68	F4	3	-2195	2198
69	F4	4	2064	2068
70	F4	5	2198	2201
71	F4	6	2391	2393
72	F4	7	-1943	1947
73	F4	8	-2716	2717
74	F4	9	-3423	3421
75	F4	10	-3435	3433
76	F4	11	-3628	3626
77	F4	12	2569	2571
78	F4	13	2578	2580
79	F4	14		

2207                      1                      991

15 ORIGINAL  
18  
139  
166 (red)  
204  
149 1499  
198  
169  
248  
284  
178  
178  
202  
202  
77  
149 1792  
266  
240 2207  
228  
228  
252  
149  
149 2198  
149  
184  
252  
276  
278  
276  
252  
252

AR101623

QUANTITATION REPORT FILE: GH026288A14

ORIGINAL

(red)

DATA: GH026288A14.TI

02/83 16:47:00

SAMPLE: 1.0 UL FSCC SAMPLE 26288

SUBMITTED BY: OWA#14 ANALYST: 602

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)  
RESP. FAC. FROM LINEAR FIT TO WHOLE . RL

- | NO | NAME                                      |
|----|---|
| 1  | *D3-PHENOL (INTERNAL STANDARD) (624)      |
| 2  | N-NITROSODIMETHYLAMINE (441)              |
| 3  | PHENOL (610)                              |
| 4  | ANILINE (473)                             |
| 5  | BIS(2-CHLOROETHYL)ETHER (411)             |
| 6  | 2-CHLOROPHENOL (601)                      |
| 7  | 1,3-DICHLOROBENZENE (421)                 |
| 8  | 1,4-DICHLOROBENZENE (422)                 |
| 9  | 1,2-DICHLOROBENZENE (420)                 |
| 10 | BENZYL ALCOHOL (474)                      |
| 11 | BIS(2-CHLOROISOPROPYL)ETHER (412)         |
| 12 | 2-METHYLPHENOL (620)                      |
| 13 | HEXACHLOROETHANE (436)                    |
| 14 | 4-METHYLPHENOL (622)                      |
| 15 | 2-FLUOROPHENOL (SURROGATE) (619)          |
| 16 | PENTAFLUOROPHENOL (SURROGATE) (623)       |
| 17 | D5-NITROBENZENE (SURROGATE) (447)         |
| 18 | DECAFLUOROBIPHENYL (SURROGATE) (470)      |
| 19 | 2-FLUOROANILINE (SURROGATE) (472)         |
| 20 | 2-FLUOROBIPHENYL (SURROGATE) (448)        |
| 21 | *D8-NAPHTHALENE (INTERNAL STANDARD) (460) |
| 22 | N-NITROSO-DI-N-PROPYLAMINE (442)          |
| 23 | NITROBENZENE (440)                        |
| 24 | ISOPHORONE (438)                          |
| 25 | 2-NITROPHENOL (606)                       |
| 26 | 2,4-DIMETHYLPHENOL (603)                  |
| 27 | BIS(2-CHLOROETHOXY)METHANE (410)          |
| 28 | 2,4-DICHLOROPHENOL (602)                  |
| 29 | 1,2,4-TRICHLOROBENZENE (446)              |
| 30 | 4-CHLOROANILINE (475)                     |
| 31 | BENZOIC ACID (625)                        |
| 32 | HEXACHLOROBUTADIENE (434)                 |
| 33 | P-CHLORO-M-CRESOL (608)                   |
| 34 | 2-METHYLNAPHTHALENE (472)                 |
| 35 | HEXACHLOROCYCLOPENTADIENE (435)           |
| 36 | 2,4,6-TRICHLOROPHENOL (611)               |
| 37 | 2-CHLORONAPHTHALENE (416)                 |
| 38 | ACENAPHTHYLENE (402)                      |
| 39 | DIMETHYLPHTHALATE (425)                   |
| 40 | NAPHTHALENE (439)                         |
| 41 | 2,6-DINITROTOLUENE (428)                  |
| 42 | 2,4-DINITROTOLUENE (427)                  |
| 43 | 3-NITROANILINE (479)                      |
| 44 | 2-NITROANILINE (478)                      |
| 45 | DIBENZOFURAN (476)                        |
| 46 | 4-NITROANILINE (480)                      |

AR101624

ORIGINAL

(red)

NO NAME  
 47 2, 4, 5-TRICHLOROPHENOL (626)  
 48 \*D10-PHENANTHRENE (INTERNAL STANDARD) (467)  
 49 ACENAPHTHENE (401)  
 50 2, 4-DINITROPHENOL (605)  
 51 4-NITROPHENOL (607)  
 52 FLUORENE (432)  
 53 4-CHLOROPHENYL PHENYL ETHER (417)  
 54 DIETHYLPHTHALATE (424)  
 55 4, 6-DINITRO-O-CRESOL (604)  
 56 DIPHENYLAMINE (N-NITROSO) (443)  
 57 4-BROMOPHENYL PHENYL ETHER (414)  
 58 HEXACHLOROBENZENE (433)  
 59 PHENANTHRENE (444)  
 60 ANTHRACENE (403)  
 61 FLUORANTHENE (431)  
 62 PYRENE (445)  
 63 1, 2-DIPHENYLHYDRAZINE (AZOBENZENE) (430)  
 64 DI-N-BUTYLPHTHALATE (426)  
 65 PENTACHLOROPHENOL (609)  
 66 \*D12-CHRYSENE (INTERNAL STANDARD) (459)  
 67 BENZO(A)ANTHRACENE (405)  
 68 CHRYSENE (418)  
 69 3, 3'-DICHLOROBENZIDINE (423)  
 70 BUTYLBENZYLPHTHALATE (415)  
 71 BIS(2-ETHYLHEXYL)PHTHALATE (413)  
 72 DI-N-OCTYLPHTHALATE (429)  
 73 BENZIDINE (404)  
 74 BENZO(A)PYRENE (406)  
 75 INDENO(1, 2, 3-C, D)PYRENE (#437)  
 76 DIBENZO(A, H)ANTHRACENE (419)  
 77 BENZO(G, H, I)PERYLENE (408)  
 78 BENZO(B)FLUORANTHENE (407)  
 79 BENZO(K)FLUORANTHENE (409)

NO	N/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	ZTOT
----	-----	------	------	-----	-----	------	------------	--------	------

APR 10 1965



UKI

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	(red) %TOT
1	97	827	10:20	1	1.000	A BV	9759.	20.000 NG	1.33
2	NOT FOUND								
3	NOT FOUND								
4	93	826	10:19	1	0.999	A*VV	820.	3.398 NG	0.23
5	93	834	10:25	1	1.000	A*VB	680.	1.079 NG	0.07
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	112	678	8:28	1	0.820	A BV	59309.	129.505 NG	8.62
16	184	815	10:11	1	0.985	A*BV	8791.	45.536 NG	3.03
17	82	972	12:09	1	1.175	A BV	112914.	252.953 NG	16.85
18	334	988	12:21	1	1.195	A BV	59536.	316.899 NG	21.10
19	111	799	9:59	1	0.966	A BB	139599.	266.519 NG	17.75
20	172	1288	16:06	1	1.557	A BB	180434.	384.924 NG	25.63
21	136	1094	13:40	21	1.000	A BV	31385.	20.000 NG	1.33
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	188	1886	21:04	48	1.000	A BV	27076.	20.000 NG	1.33
49	NOT FOUND								
50	NOT FOUND								
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	149	1499	18:44	48	0.889	A BV	564.	0.417 NG	0.03
55	NOT FOUND								
56	NOT FOUND								

AR 101626

(red)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
57	NOT	FOUND							
58	NOT	FOUND							
59	NOT	FOUND							
60	NOT	FOUND							
61	NOT	FOUND							
62	NOT	FOUND							
63	NOT	FOUND							
64	149	1792	22:24	48	1.063	A BB	1317.	0.689 NG	0.05
65	NOT	FOUND							
66	240	2207	27:35	66	1.000	A BV	14104.	40.000 NG	2.66
67	NOT	FOUND							
68	NOT	FOUND							
69	NOT	FOUND							
70	NOT	FOUND							
71	149	2198	27:28	66	0.996	A BB	282.	0.627 NG	0.04
72	NOT	FOUND							
73	NOT	FOUND							
74	NOT	FOUND							
75	NOT	FOUND							
76	NOT	FOUND							
77	NOT	FOUND							
78	NOT	FOUND							
79	NOT	FOUND							

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:13	1.01	1.000	1.00	20.00	20.00	1.000	1.000	1.00
2	6:00		0.587			50.00		0.498	
3	10:13		1.000			50.00		0.869	
4	10:19	1.00	1.009	0.99	3.40	50.00	0.033	0.485	0.07
5	10:24	1.00	1.017	0.99	1.08	50.00	0.027	1.265	0.02
6	10:32		1.031			50.00		0.863	
7	10:49		1.059			50.00		0.936	
8	10:55		1.068			50.00		1.035	
9	11:19		1.106			50.00		0.918	
10	11:13		1.098			50.00		0.482	
11	11:31		1.126			50.00		0.333	
12	11:27		1.120			50.00		0.716	
13	11:57		1.169			50.00		0.407	
14	11:45		1.149			50.00		0.754	
15	8:27	1.00	0.826	0.99	129.51	50.00	2.382	0.920	2.59
16	10:06	1.01	0.988	1.00	45.54	50.00	0.353	0.388	0.91
17	12:07	1.00	1.186	0.99	252.95	50.00	4.535	0.896	5.06
18	12:20	1.00	1.207	0.99	316.90	50.00	2.391	0.377	6.34
19	9:58	1.00	0.976	0.99	266.52	50.00	5.607	1.052	5.33
20	16:04	1.00	1.572	0.99	384.92	50.00	7.247	0.941	7.70
21	13:38	1.00	1.000	1.00	20.00	20.00	1.000	1.000	1.00
22	11:49		0.867			50.00		0.091	
23	12:10		0.892			50.00		0.228	
24	12:39		0.928			50.00		0.077	
25	12:51		0.942			50.00		0.229	
26	12:53		0.945			50.00		0.371	
27	13:07		0.962			50.00		0.421	
28	13:21		0.979			50.00		0.304	
29	13:32		0.993			50.00		0.327	
30	13:51		1.016			250.00		0.392	
31	13:19		0.977			250.00		0.166	

AR1013047

AR101627

ORIGINAL

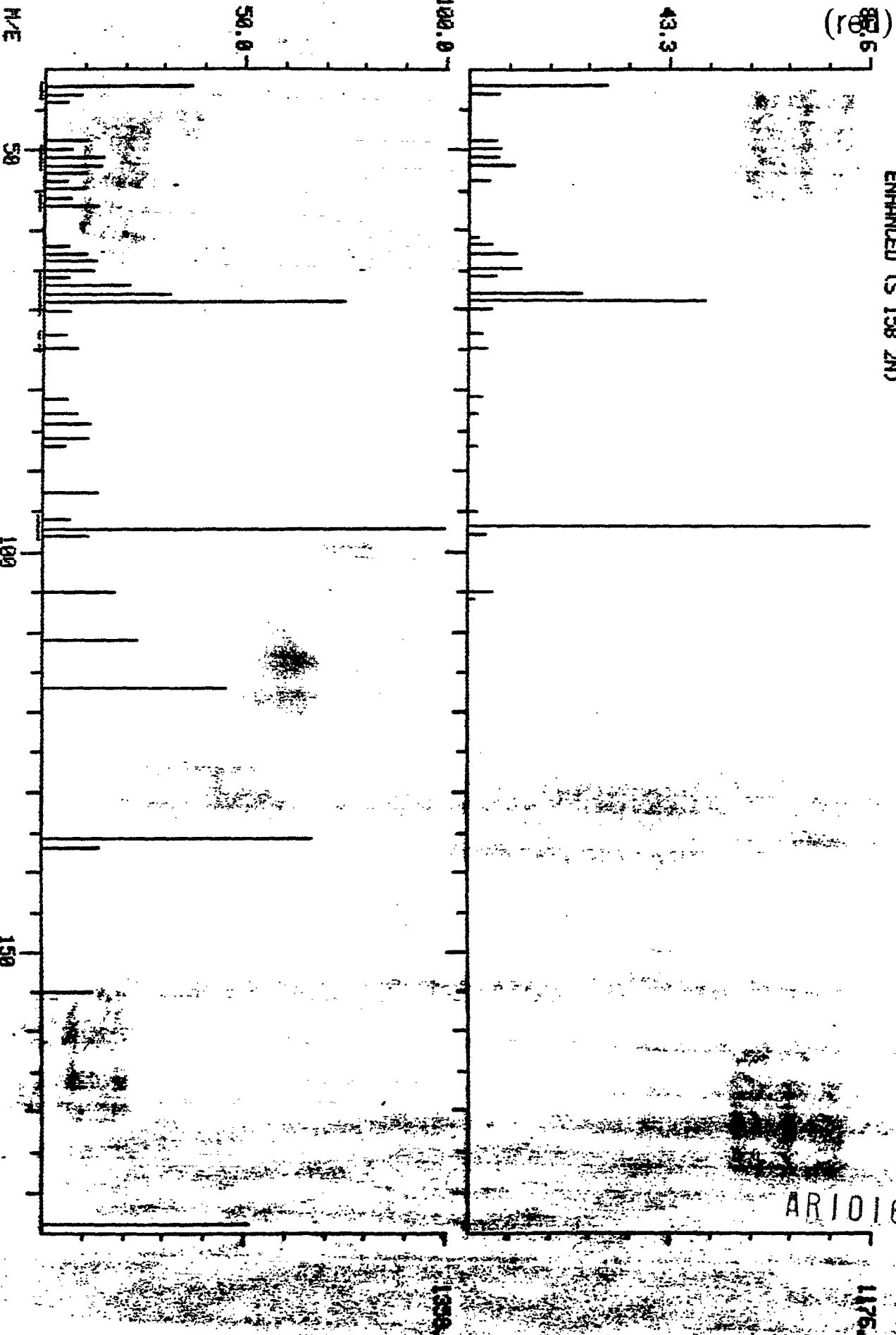
DUAL MASS SPECTRUM  
02/02/93 16:47:00 + 10:19  
SAMPLE: 1.0 UL F3CC SAMPLE 26288  
ENHANCED (S 158 2N)

NEED COMPUTHER

DATA: G4026288A14 #826

BASE M/E: 97/ 97  
R/C: 4047.78 10143.

AR10162



ORIGINAL

(red)

QUANTITATION REPORT FILE: EXTRA

DATA: GH026288A14.TI

02/02/83 16:47:00

SAMPLE: 1.0 UL FSCC SAMPLE 26288

SUBMITTED BY: OWA#14 ANALYST: 602

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)

RESP. FAC FROM - LIBRARY ENTRY

NO	N/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	327	4:05	2	0.916	A BB	27804.	0.441	0.31
2	RIC	357	4:28	2	1.000	A BB	6307270.	100.000	70.08
3	RIC	374	4:40	2	1.048	A BB	8256.	0.131	0.09
4	RIC	392	4:54	2	1.098	A BB	11544.	0.183	0.13
5	RIC	413	5:10	2	1.157	A BB	9288.	0.147	0.10
6	RIC	448	5:36	2	1.255	A BB	9711.	0.154	0.11
7	RIC	493	6:10	2	1.381	A BV	5346.	0.085	0.06
8	RIC	596	7:27	2	1.669	A VV	12675.	0.201	0.14
9	RIC	603	7:32	2	1.689	A VB	14014.	0.222	0.16
10	RIC	616	7:42	2	1.725	A BV	11683.	0.185	0.13
11	RIC	628	7:51	2	1.759	A BV	45432.	0.720	0.50
12	RIC	678	8:28	2	1.899	A BV	262114.	4.156	2.91
13	RIC	693	8:40	2	1.941	A VB	23536.	0.373	0.26
14	RIC	710	8:52	2	1.989	A BB	12614.	0.200	0.14
15	RIC	732	9:09	2	2.050	A BB	25147.	0.399	0.28
16	RIC	761	9:31	2	2.132	A BB	6423.	0.102	0.07
17	RIC	799	9:59	2	2.238	A BV	450268.	7.139	5.00
18	RIC	815	10:11	2	2.283	A VV	66980.	1.062	0.74
19	RIC	826	10:19	2	2.314	A VB	72744.	1.153	0.81
20	RIC	902	11:16	2	2.527	A BB	5383.	0.085	0.06
21	RIC	972	12:09	2	2.723	A BV	395888.	6.277	4.40
22	RIC	989	12:22	2	2.770	A VB	350664.	5.560	3.90
23	RIC	1094	13:40	2	3.064	A BB	48354.	0.767	0.54
24	RIC	1094	13:40	2	3.064	A BB	88442.	1.402	0.98
25	RIC	1288	16:06	2	3.608	A BB	612820.	9.716	6.81
26	RIC	1686	21:04	2	4.723	A BB	63529.	1.007	0.71
27	RIC	2207	27:35	2	6.182	A BB	51911.	0.823	0.58

AR101629

C-62

(red)

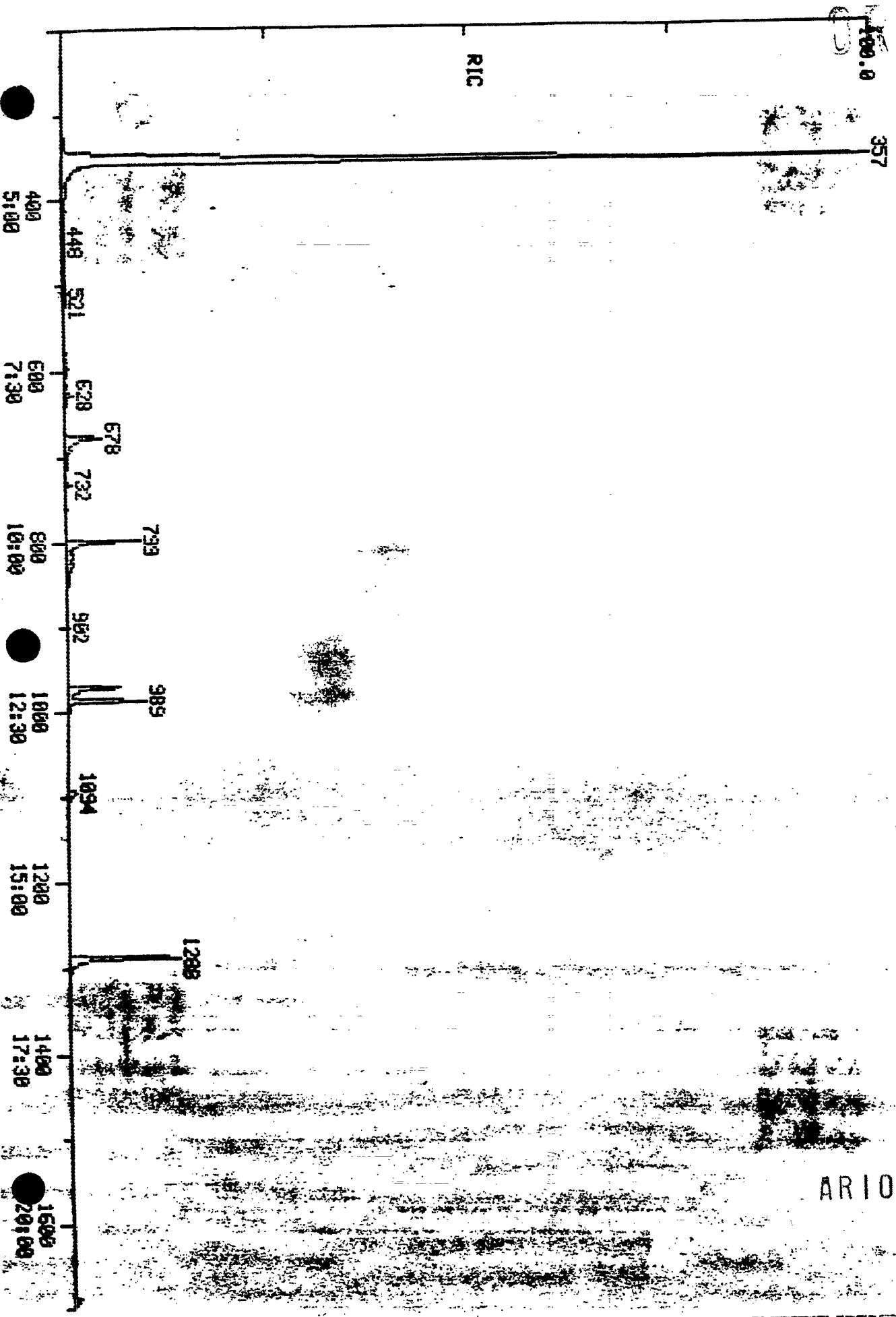
RIC  
02/02/93 16:47:00  
SAMPLE: 1.0 UL F50C SAMPLE 26288

HEAD COMPUTER

DATA: CH026288A14

SCANS 200 TO 1760  
OUT OF 200 TO 3860

ARI016



003

(red)

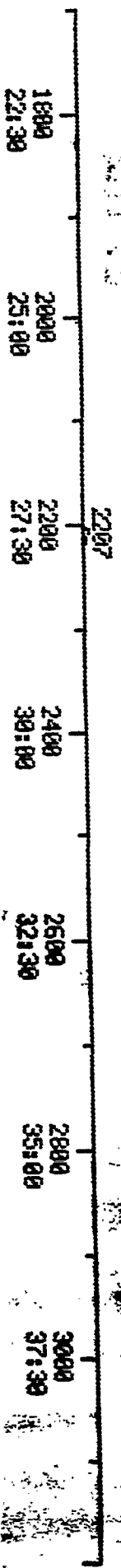
RIC  
02/02/83 16:47:00  
SAMPLE: 1.0 UL FSCC SAMPLE 26288

HEAD CONPUCHEN

DATA: 01026288A14

SCANS 1700 TO 3200  
OUT OF 1200 TO 3800

AR1016



C-64

ORIGINAL

(red)

RIC  
02/02/83 16:47:00  
SAMPLE: 1.0 UL F50C SAMPLE 26288

HEAD COMPUTER

DATA: G1026288A14

SCANS 3200 TO 3800  
OUT OF 200 TO 3880

1185790.

AR101.632

3400  
42:30

3600  
45:00

3800  
47:30

SCAN  
TIME

ORIGINAL

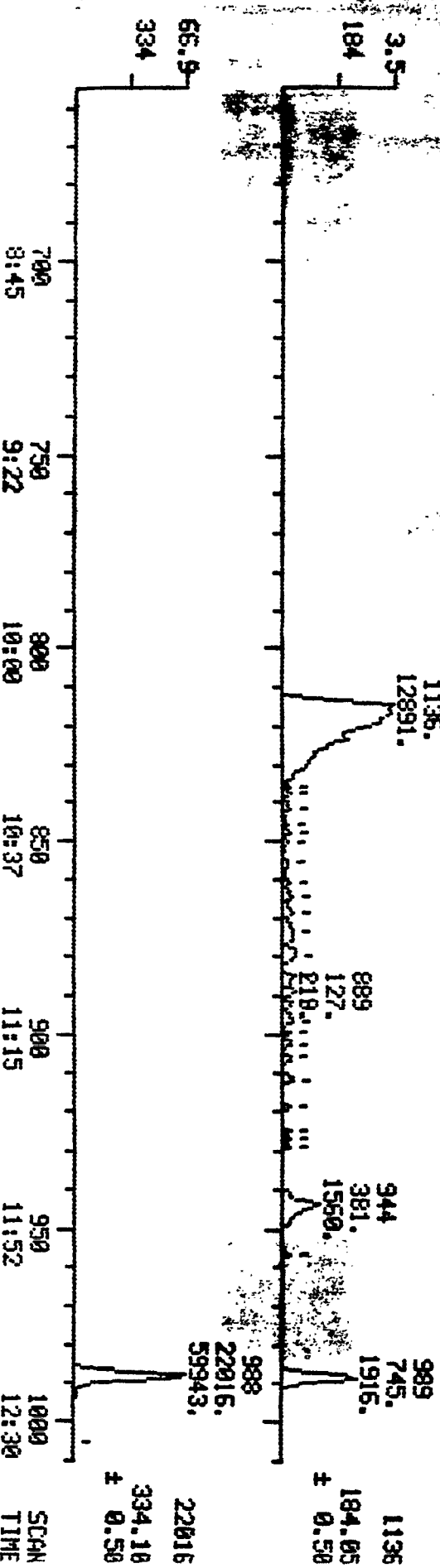
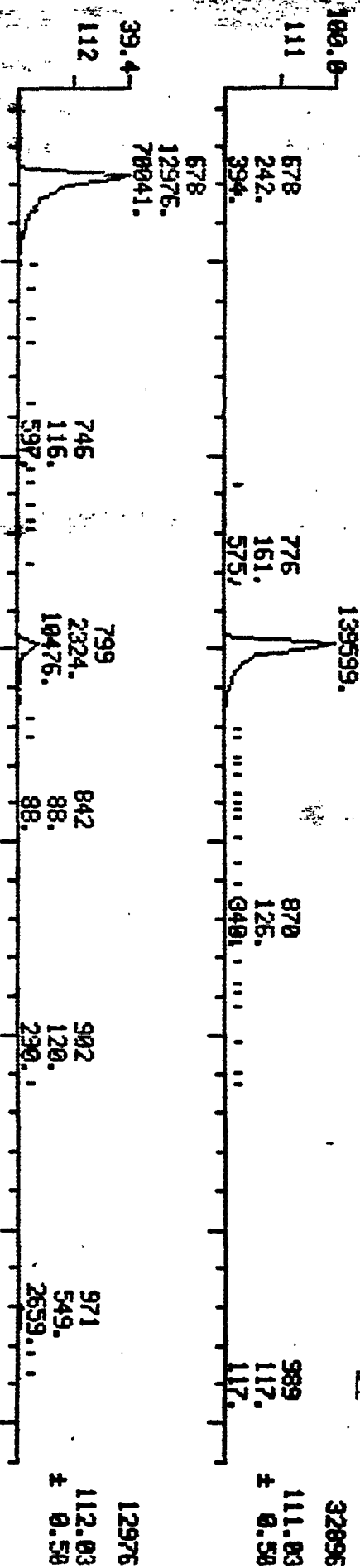
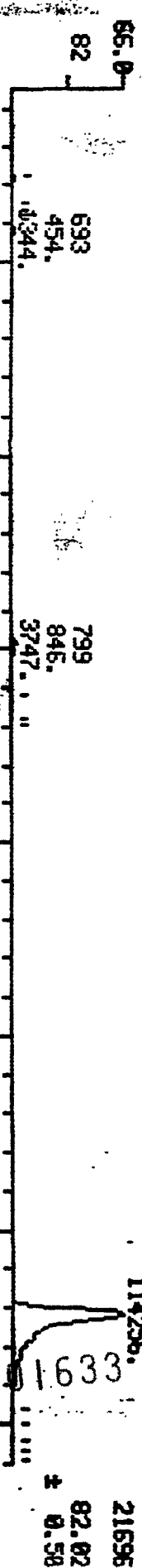
(red)

MASS CHROMATOGRAMS  
02/02/83 16:47:09  
SAMPLE: 1.0 UL FSCC SAMPLE 26288

HEAD COMPUTER

DATA: GR026288A14

SCANS 655 TO 1010





UNIDENTIFIED

(red)

LIBRARY SEARCH  
02/02/83 16:47:00 + 4:28  
SAMPLE: 1.0 UL FSCC SAMPLE 26288  
ENHANCED (S 158 2N 0T)

HEAD COMPUTED

DATA: GH026288A14 # 357

BASE M/E 56  
RICH 979967.

SAMPLE 1000

C6.H14.N2

M WT 1000  
B PK 114  
RANK 55  
IN 14838  
PUR 609

2-PIPERIDINETHANAMINE

CAS# 22990-77-8

ARI01634

C4.H8.N4

M WT 1000  
B PK 114  
RANK 42  
IN 10243  
PUR 594

1,2,4,5-TETRAZINE,1,4-DIHYDRO-3,6-DIMETHYL-

CAS# 37454-64-1

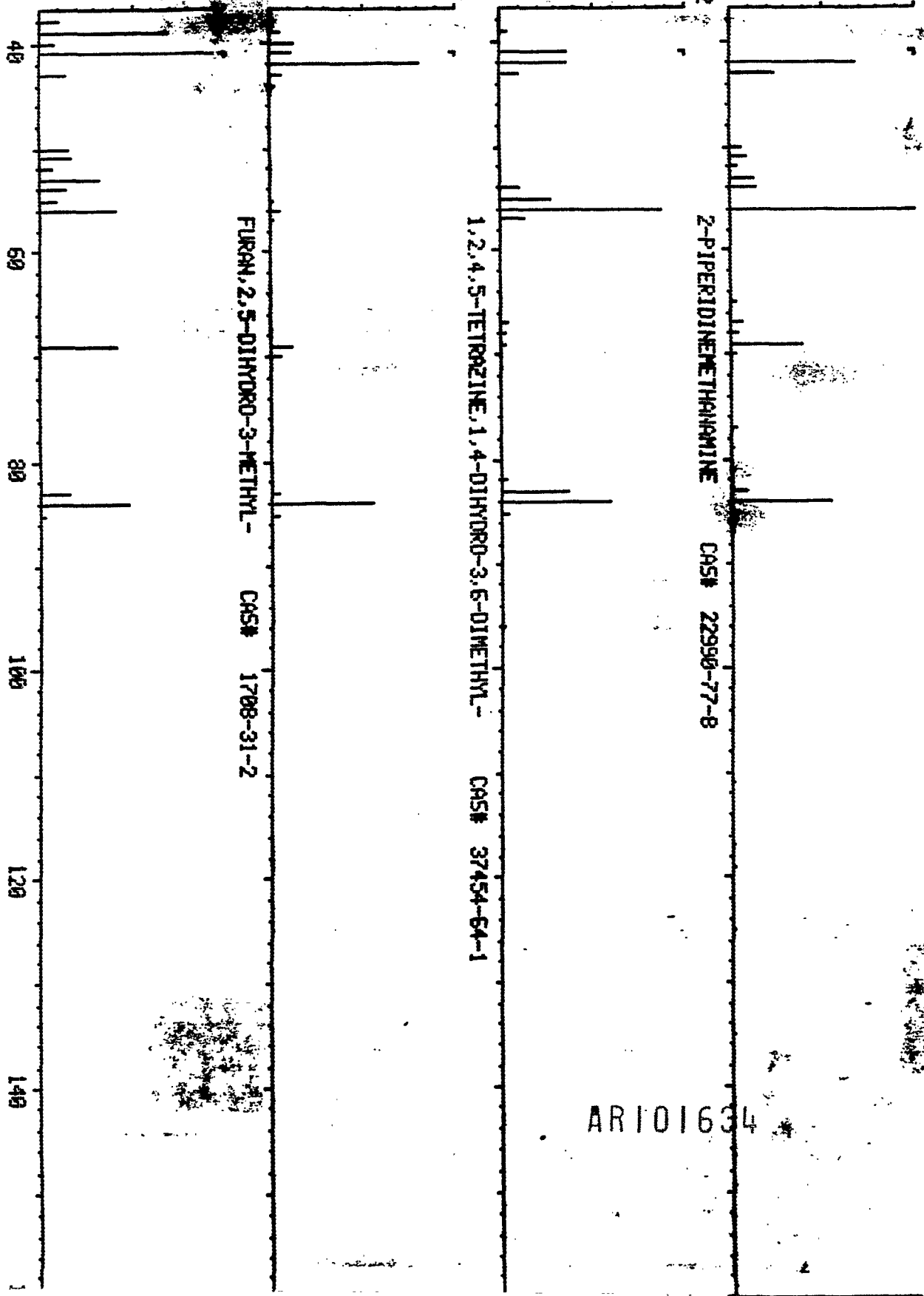
C5.H8.O

M WT 1000  
B PK 114  
RANK 41  
IN 5471  
PUR 578

FURAN,2,5-DIHYDRO-3-METHYL-

CAS# 1708-31-2

M/E



(red)

MASS CHROMATOGRAM  
02/02/83 16:47:00  
SAMPLE: 1.0 UL F500 SAMPLE 26288

HEAD COMPUCHEM

DATA: GH026288A14

SCANS 1260 TO 1310

100.0

172

1260 15:45  
1270 15:52  
1280 16:00  
1290 16:07  
1300 16:15  
1310 SC# 16:22 TIME

1288  
46016.  
178239.

172.05  
± 0.50

46016.

ARI01635

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
32	14:03		1.030			50.00		0.186	
33	14:53		1.092			50.00		0.367	
34	15:13		1.116			50.00		0.334	
35	15:43		1.082			50.00		0.054	
36	15:55		1.167			50.00		0.174	
37	16:20		1.198			50.00		0.636	
38	17:18		1.269			50.00		0.976	
39	17:04		1.252			50.00		0.823	
40	13:41		1.004			50.00		1.157	
41	17:16		1.266			50.00		0.188	
42	18:10		1.332			50.00		0.255	
43	17:35		1.290			250.00		0.056	
44	16:40		1.223			250.00		0.247	
45	18:04		1.325			50.00		0.863	
46	19:10		1.406			250.00		0.029	
47	16:01		1.174			250.00		0.212	
48	21:01	1.00	1.000	1.00	20.00	20.00	1.000	1.000	1.00
49	17:43		0.844			50.00		0.742	
50	17:51		0.849			250.00		0.048	
51	18:04		0.860			125.00		0.236	
52	18:52		0.898			50.00		0.788	
53	18:49		0.896			50.00		0.335	
54	18:40	1.00	0.888	1.00	0.42	50.00	0.008	0.998	0.01
55	19:05		0.908			250.00		0.084	
56	19:07		0.910			50.00		0.328	
57	19:56		0.949			50.00		0.207	
58	20:18		0.966			50.00		0.229	
59	21:04		1.003			50.00		0.989	
60	21:10		1.008			50.00		1.018	
61	23:49		1.133			50.00		0.983	
62	24:21		1.159			50.00		1.018	
63	19:12		0.914			50.00		1.078	
64	22:20	1.00	1.063	1.00	0.69	50.00	0.019	1.411	0.01
65	20:44		0.987			50.00		0.063	
66	27:33	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
67	27:29		0.998			50.00		1.110	
68	27:38		1.003			50.00		1.123	
69	27:29		0.998			50.00		0.066	
70	25:48		0.936			50.00		0.857	
71	27:28	1.00	0.997	1.00	0.63	50.00	0.016	1.276	0.01
72	29:53		1.085			50.00		2.130	
73	24:19		0.882			150.00		0.004	
74	33:59		1.234			50.00		0.837	
75	42:54		1.557			50.00		0.333	
76	43:07		1.565			50.00		0.395	
77	45:28		1.650			50.00		0.210	
78	32:07		1.166			50.00		1.010	
79	32:13		1.170			50.00		0.845	

AR101636

LOW LEVEL SOLID ORIGINAL

Laboratory Name Mead CompuChem  
 Lab Sample ID No. Blank 26642  
 Associated Samples 23888

Case Number 1439  
 QC Report No. 136-61 (red)

Multiply all Values and Detection Limits by 1  or 10  or   
 (Check Box for Appropriate Factor)

ACID COMPOUNDS

PP#	CAS#		ug/kg
(21A)	88-06-2	2,4,6-trichlorophenol	400U
(22A)	59-50-7	p-chloro-m-cresol	400U
(24A)	95-57-8	2-chlorophenol	400U
(31A)	122-83-2	2,4-dichlorophenol	400U
(34A)	105-67-9	2,4-dimethylphenol	400U
(57A)	88-75-5	2-nitrophenol	800U
(58A)	100-02-7	4-nitrophenol	400U
(59A)	51-88-5	2,4-dinitrophenol	2000U
(60A)	534-52-1	4,6-dinitro-2-methylphenol	800U
(64A)	87-36-5	pentachlorophenol	800U
(65A)	108-95-2	phenol	400U

(Non-Priority Pollutant Hazardous Substances)

65-85-0	benzoic acid	400U
95-48-7	2-methylphenol	400U
108-39-4	4-methylphenol	400U
95-95-4	2,4,5-trichlorophenol	400U

BASE-NEUTRAL COMPOUNDS

(1B)	83-32-9	acenaphthene	400U
(5B)	92-87-5	benzidine	1600U
(8B)	120-82-1	1,2,4-trichlorobenzene	400U
(9B)	118-74-1	hexachlorobenzene	400U
(12B)	67-72-1	hexachloroethane	400U
(18B)	111-44-4	bis(2-chloroethyl)ether	400U
(20B)	91-58-7	2-chloronaphthalene	400U
(25B)	95-50-1	1,2-dichlorobenzene	400U
(26B)	541-73-1	1,3-dichlorobenzene	400U
(27B)	106-46-7	1,4-dichlorobenzene	400U
(28B)	91-94-1	3,3'-dichlorobenzidine	800U
(35B)	121-14-2	2,4-dinitrotoluene	800U
(36B)	606-20-2	2,6-dinitrotoluene	800U
		1,2-diphenylhydrazine	
(37B)	122-66-7	(as azobenzene)	800U
(39B)	206-44-0	fluoranthene	400U
(40B)	7005-72-3	4-chlorophenyl phenylether	400U
(41B)	101-55-3	4-bromophenyl phenyl ether	400U

BASE/NEUTRAL COMPOUNDS

PP#	CAS#		ug/kg
(42B)	39638-32-9	bis-(2-chloroisopropyl)ether	800U
(43B)	11-91-1	bis-(2-chloroethoxy)methane	800U
(52B)	87-68-3	hexachlorobutadiene	400U
(53B)	77-47-4	hexachlorocyclopentadiene	400U
(54B)	78-59-1	isophorone	400U
(55B)	91-20-3	naphthalene	400U
(56B)	98-95-3	nitrobenzene	400U
(62B)	86-30-6	N-nitrosodiphenylamine	400U
(63B)	621-64-7	N-nitrosodi-n-propylamine	800U
(66B)	117-81-7	bis(2-ethylhexyl)phthalate	400U
(67B)	85-68-7	butyl benzyl phthalate	400U
(68B)	84-74-2	di-n-butyl phthalate	400U
(69B)	117-84-0	di-n-octyl phthalate	400U
(70B)	84-66-2	diethyl phthalate	400U
(71B)	131-11-3	dimethyl phthalate	400U
(72B)	56-55-3	benzo(a)anthracene	400U
(73B)	50-33-8	benzo(a)pyrene	800U
(74B)	205-99-2	benzo(b)fluoranthene	800U
(75B)	207-08-9	benzo(k)fluoranthene	800U
(76B)	318-01-9	chrysene	400U
(77B)	208-96-8	acenaphthylene	400U
(78B)	120-12-7	anthracene	400U
(79B)	181-24-2	benzo(ghi)perylene	800U
(80B)	86-73-7	fluorene	400U
(81B)	85-01-8	phenanthrene	400U
(82B)	53-70-3	dibenzo(a,h)anthracene	800U
(83B)	183-39-5	indeno(1,2,3-cd)pyrene	800U
(84B)	129-00-0	pyrene	400U

560 (SC)

(Non-Priority Pollutant Hazardous Substances)

62-53-3	aniline	400U
100-51-6	benzyl alcohol	800U
106-47-8	4-chloroaniline	2000U
132-64-9	dibenzofuran	400U
91-57-6	2-methylnaphthalene	800U
88-74-4	2-nitroaniline	4000U
99-09-2	3-nitroaniline	4000U
100-01-6	4-nitroaniline	4000U

ARI01637

Lab Name: Mead CompuChemLab Sample I.D. No. 26642  
Blank

## A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/kg)	(Surrogates only)	
			Spike Added (ug/kg)	% Recovery
2-Fluorophenol	SEMIVOA	4800	5000	96
Pentafluorophenol	SEMIVOA	2000	5000	40
<del>D6-Phenol</del>	<del>SEMIVOA</del>			
D5-Nitrobenzene	SEMIVOA	5200	5000	104
Decaflprobiphenyl	SEMIVOA	5700	5000	114
2-Fluorobiphenyl	SEMIVOA	7300	5000	146
2-Fluoroaniline	SEMIVOA	5600	5000	112

ARI01638

ORIGINAL

(18)  
LAB SAMPLE I.D. # 026642

HEAD COMPUCHEN ORGANICS ANALYSIS DATA SHEET

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS  
ANALYTICAL FRACTION: FSCCG

SAMPLE #

R101639

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	PURITY %	ESTIMATED CONCENTRATION (UG/G) OR (UG/L) (EU)
1	730	-	SEARCH RESULTS < 802 PURITY	---	230.
2	2136	-	SEARCH RESULTS < 802 PURITY	---	130.
3	2190	-	SEARCH RESULTS < 802 PURITY	---	240.
4	2303	-	SEARCH RESULTS < 802 PURITY	---	130.
5	2316	-	SEARCH RESULTS < 802 PURITY	---	110.
6	2546	-	SEARCH RESULTS < 802 PURITY	---	110.
7	2679	-	SEARCH RESULTS < 802 PURITY	---	210.

39.999

5 11

(red)

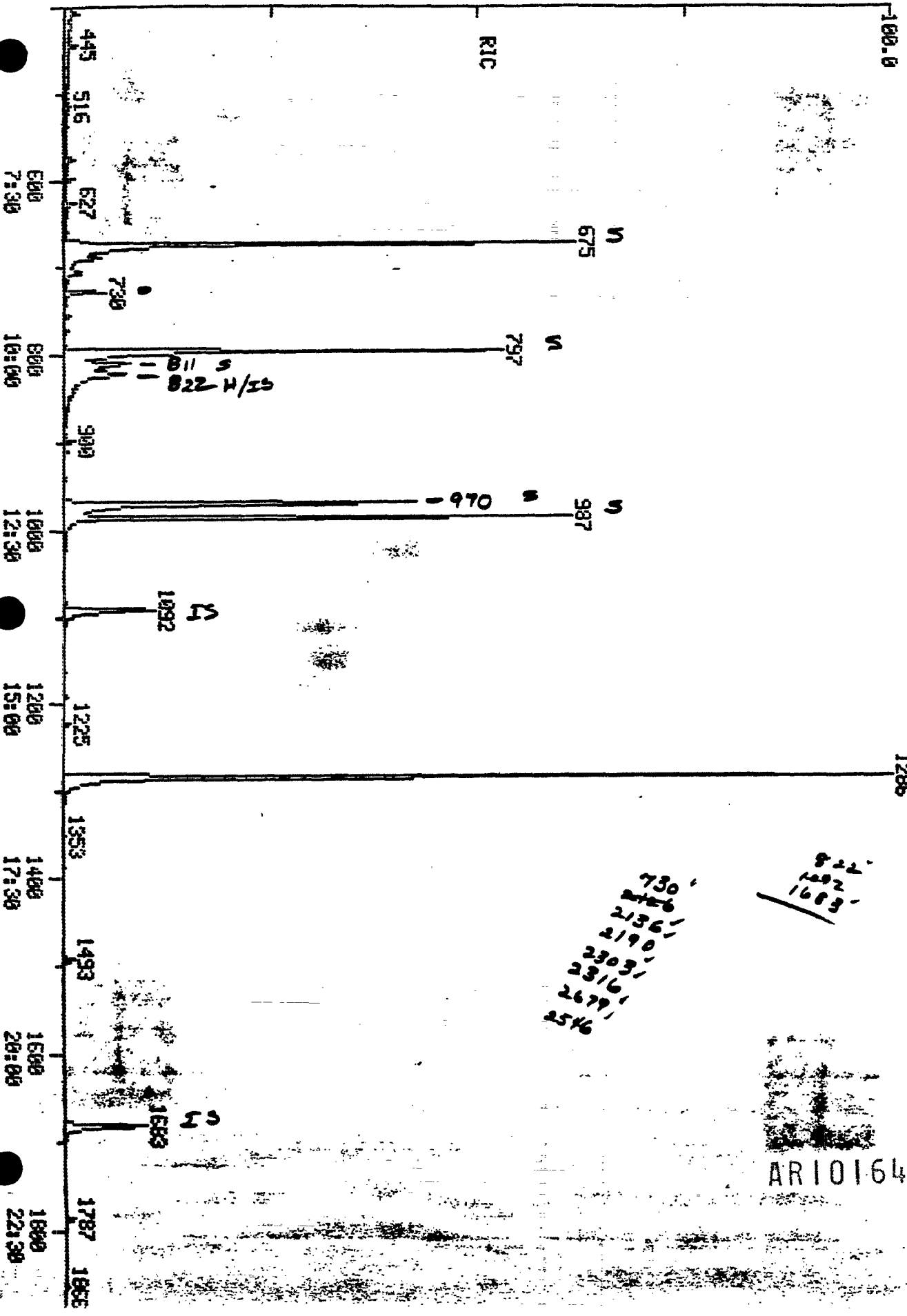
RIC  
02/02/83 11:21:00  
SAMPLE: IUL FSCC SAMPLE #26642(100LACD:100LBNESUL#7188-026)

HEAD COMPUTER

DATA: GM026642A14

SCANS 400 TO 1900  
OUT OF 400 TO 3700

ARI01640



ORIGINAL

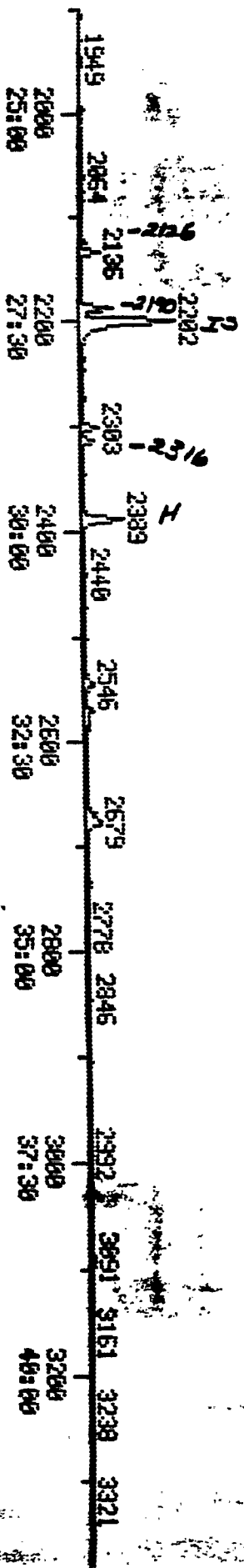
(red)

RIC  
02/02/83 11:21:00  
SAMPLE: 10L FSCC SAMPLE #26542<100ULNCD6100ULBNK5UL#7188-02E>

HEAD COMPUTER  
DATA: CH026542A14

SCANS 1500 TO 3400  
OUT OF 400 TO 3700

MARIO





ORIGINAL

(red)

HEAD COMPUCHEM

DATA: GH026642814

RIC  
02/02/83 11:21:00  
SAMPLE: JUL FSCC SAMPLE #26642(100UL)CDL100ULBNSUL#7188-026)

SCANS 3400 TO 3700  
OUT OF 400 TO 3700

ART0164

141312.

ART01642

C-17

3452

3540

3600  
45:00

SCAN  
TIME

PROCEDURE: RK  
DATA FILE: GH026642A14  
REFERENCE: FSCC6  
METHOD: FSCC6  
REPORT: FSCC6S1

DIAGNOSTIC REPORT

(103)  
2/02/83 12:22:35

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< --- STANDARDS --- >				--- PLUS UNKNOWN --- >				< --- LIST NAMES --- >	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
4	4	1	188	65	11	1	173	FSCC6S1/FSCC6U1	
2	2	1	0	15	6	1	68	FSCC6S2/FSCC6U2	

79 COMPOUNDS PROCESSED, 16 FOUND

< COMPOUND >		SEARCH						> SAT <		CHRO		
NO	LIB ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	F1	1	818	821	822	1	1	989	97	822	.	1
2	F2	1	1091	1093	1092	-1	1	996	136	1092	.	1
3	F1	20	1286	1288	1286	-2	1	998	172	1286	.	1
4	F3	1	1681	1682	1683	1	1	989	188	1683	.	1
5	F1	2	480	481	.	.	.	.	74	.	.	.
6	F1	3	818	819	.	.	.	.	94	.	.	.
7	F1	4	-824	825	.	.	.	.	93	822	.	3
8	F1	5	832	833	834	1	1	951	93	.	.	.
9	F1	6	843	844	.	.	.	.	128	.	.	.
10	F1	7	866	867	.	.	.	.	146	.	.	.
11	F1	8	874	875	.	.	.	.	146	.	.	.
12	F1	9	905	906	.	.	.	.	146	.	.	.
13	F1	10	897	898	.	.	.	.	108	.	.	.
14	F1	11	921	922	.	.	.	.	121	.	.	.
15	F1	12	916	917	.	.	.	.	108	.	.	.
16	F1	13	956	957	.	.	.	.	117	.	.	.
17	F1	14	940	941	.	.	.	.	108	.	.	.
18	F1	15	676	677	675	-2	1	994	112	675	.	1
19	F1	16	808	809	811	2	1	981	184	811	.	1
20	F1	17	970	971	970	-1	1	996	82	970	.	1
21	F1	18	987	988	987	-1	1	996	334	987	.	1
22	F1	19	798	799	797	-2	1	1000	111	797	.	1
23	F2	2	946	947	.	.	.	.	130	.	.	.
24	F2	3	973	974	.	.	.	.	123	.	.	.
25	F2	4	1012	1013	.	.	.	.	82	.	.	.
26	F2	5	1028	1029	.	.	.	.	139	.	.	.
27	F2	6	1031	1032	.	.	.	.	122	.	.	.
28	F2	7	1049	1050	.	.	.	.	93	.	.	.
29	F2	8	1068	1069	.	.	.	.	162	.	.	.
30	F2	9	1083	1084	.	.	.	.	180	.	.	.
31	F2	10	1108	1109	.	.	.	.	127	.	.	.
32	F2	11	1066	1067	.	.	.	.	105	.	.	.
33	F2	12	1124	1125	.	.	.	.	225	.	.	.
34	F2	13	1191	1192	.	.	.	.	107	.	.	.
35	F2	14	1218	1219	.	.	.	.	115	.	.	.
36	F2	15	1257	1258	.	.	.	.	137	.	.	.
37	F2	16	1273	1274	.	.	.	.	196	.	.	.
38	F2	17	1307	1308	.	.	.	.	182	.	.	.
39	F2	18	1384	1385	.	.	.	.	152	.	.	.
40	F2	19	1366	1367	.	.	.	.	163	.	.	.
41	F2	20	1095	1096	.	.	.	.	128	.	.	.
42	F2	21	1381	1382	.	.	.	.	165	.	.	.
43	F2	22	1453	1454	.	.	.	.	185	.	.	.
44	F2	23	1407	1408	.	.	.	.	138	.	.	.
45	F2	24	1334	1335	.	.	.	.	138	.	.	.

AR101643

C-14

48	F2	27	1281	1262						170			
49	F3	2	1418	1419						154			
50	F3	3	1428	1429						184			
51	F3	4	-1449	1450						139			
52	F3	5	1510	1511						166			
53	F3	6	1506	1507						204			
54	F3	7	1493	1494	1493	-1	1	991		149	1493		1
55	F3	8	1527	1528						198			
56	F3	9	1530	1531						169			
57	F3	10	1595	1596						248			
58	F3	11	1624	1625						284			
59	F3	12	1686	1687						178			
60	F3	13	1694	1695						178			
61	F3	14	1906	1907						202	1910		1
62	F3	15	1948	1949						202	1950		1
63	F3	16	1536	1537						77			
64	F3	17	1787	1788						149	1787		1
65	F3	18	1660	1661						266			
66	F4	1	2204	2203	2203		1	997		240	2203		1
67	F4	2	2199	2198	2198		1	991		238	2198		1
68	F4	3	2211	2210	2210		1	994		228	2210		2
69	F4	4	-2195	2194						252			
70	F4	5	2064	2064						149	2064		1
71	F4	6	2198	2197						149	2199		1
72	F4	7	2391	2389	2390	1	1	986		149	2390		1
73	F4	8	-1943	1944						184			
74	F4	9	-2716	2712						252			
75	F4	10	-3423	3415						276			
76	F4	11	-3435	3427						278			
77	F4	12	-3628	3618						276			
78	F4	13	2569	2566						252			
79	F4	14	2578	2575	2574	-1	1	972		252	2573	-1	1

AR101644

QUANTITATION REPORT FILE: GH026642A14

DATA: GH026642A14.TI

02/02/83 11:21:00

SAMPLE: 1UL FSCC SAMPLE #26642(100ULACD&100ULBN&5UL#7188-026)

SUBMITTED BY: 14

ANALYST: NC

(red)

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)

RESP. FAC. FROM LINEAR FIT TO WHOLE .RL

NO	NAME
1	*D3-PHENOL (INTERNAL STANDARD) (624)
2	N-NITROSODIMETHYLAMINE (441)
3	PHENOL (610)
4	ANILINE (473)
5	BIS(2-CHLOROETHYL)ETHER (411)
6	2-CHLOROPHENOL (601)
7	1,3-DICHLOROBENZENE (421)
8	1,4-DICHLOROBENZENE (422)
9	1,2-DICHLOROBENZENE (420)
10	BENZYL ALCOHOL (474)
11	BIS(2-CHLOROISOPROPYL)ETHER (412)
12	2-METHYLPHENOL (620)
13	HEXACHLOROETHANE (436)
14	4-METHYLPHENOL (622)
15	2-FLUOROPHENOL (SURROGATE) (619)
16	PENTAFLUOROPHENOL (SURROGATE) (623)
17	D5-NITROBENZENE (SURROGATE) (447)
18	DECAFLUOROBIPHENYL (SURROGATE) (470)
19	2-FLUOROANILINE (SURROGATE) (472)
20	2-FLUOROBIPHENYL (SURROGATE) (448)
21	*D8-NAPHTHALENE (INTERNAL STANDARD) (460)
22	N-NITROSO-DI-N-PROPYLAMINE (442)
23	NITROBENZENE (440)
24	ISOPHORONE (438)
25	2-NITROPHENOL (606)
26	2,4-DIMETHYLPHENOL (603)
27	BIS(2-CHLOROETHOXY)METHANE (410)
28	2,4-DICHLOROPHENOL (602)
29	1,2,4-TRICHLOROBENZENE (446)
30	4-CHLOROANILINE (475)
31	BENZOIC ACID (625)
32	HEXACHLOROBUTADIENE (434)
33	P-CHLORO-M-CRESOL (608)
34	2-METHYLNAPHTHALENE (472)
35	HEXACHLOROCYCLOPENTADIENE (435)
36	2,4,6-TRICHLOROPHENOL (611)
37	2-CHLORONAPHTHALENE (416)
38	ACENAPHTHYLENE (402)
39	DIMETHYLPHTHALATE (425)
40	NAPHTHALENE (439)
41	2,6-DINITROTOLUENE (428)
42	2,4-DINITROTOLUENE (427)
43	3-NITROANILINE(479)
44	2-NITROANILINE(478)
45	DIBENZOFURAN (476)
46	4-NITROANILINE(480)

ARI01645

01 10 10 10  
(red)

- NO NAME
- 47 2, 4, 5-TRICHLOROPHENOL (626)
- 48 \*D10-PHENANTHRENE (INTERNAL STANDARD) (467)
- 49 ACENAPHTHENE (401)
- 50 2, 4-DINITROPHENOL (605)
- 51 4-NITROPHENOL (607)
- 52 FLUORENE (432)
- 53 4-CHLOROPHENYL PHENYL ETHER (417)
- 54 DIETHYLPHTHALATE (424)
- 55 4, 6-DINITRO-O-CRESOL (604)
- 56 DIPHENYLAMINE (N-NITROSO) (443)
- 57 4-BROMOPHENYL PHENYL ETHER (414)
- 58 HEXACHLOROBENZENE (433)
- 59 PHENANTHRENE (444)
- 60 ANTHRACENE (403)
- 61 FLUORANTHENE (431)
- 62 PYRENE (445)
- 63 1, 2-DIPHENYLHYDRAZINE (AZOBENZENE) (430)
- 64 DI-N-BUTYLPHTHALATE (426)
- 65 PENTACHLOROPHENOL (609)
- 66 \*D12-CHRYSENE (INTERNAL STANDARD) (459)
- 67 BENZO(A)ANTHRACENE (405)
- 68 CHRYSENE (418)
- 69 3, 3'-DICHLOROBENZIDINE (423)
- 70 BUTYLBENZYLPHTHALATE (415)
- 71 BIS(2-ETHYLHEXYL)PHTHALATE (413)
- 72 DI-N-OCTYLPHTHALATE (429)
- 73 BENZIDINE (404)
- 74 BENZO(A)PYRENE (406)
- 75 INDENO(1, 2, 3-C, D)PYRENE (#437)
- 76 DIBENZO(A, H)ANTHRACENE (419)
- 77 BENZO(G, H, I)PERYLENE (408)
- 78 BENZO(B)FLUORANTHENE (407)
- 79 BENZO(K)FLUORANTHENE (409)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
----	-----	------	------	-----	-----	------	------------	--------	------

101646

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	(red) %TOT
1	97	822	10:16	1	1.000	A BV	<del>7120.</del> 13179	20.000 NG	1.65
2	NOT FOUND								
3	NOT FOUND								
4	93	822	10:16	1	1.000	A*VB	1235.	5.536 NG	0.45 <i>no</i>
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	112	675	8:26	1	0.821	A BV	77076.	173.068 NG	14.28
16	184	811	10:08	1	0.987	A BV	7401.13086	42.101 NG	3.47
17	82	970	12:07	1	1.180	A BV	79208.	187.298 NG	15.46
18	334	987	12:20	1	1.201	A BV	44793.	207.147 NG	17.10
19	111	797	9:58	1	0.970	A BB	102325.	202.867 NG	16.74
20	172	1286	16:04	1	1.564	A BB	133715.	264.795 NG	21.85
21	136	1092	13:39	21	1.000	A BV	31347.	20.000 NG	1.65
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	188	1683	21:02	48	1.000	A BB	29801.	20.000 NG	1.65
49	NOT FOUND								
50	NOT FOUND								
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	149	1493	18:40	48	0.887	A BV	4175.	2.795 NG	0.23
55	NOT FOUND								
56	NOT FOUND								

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ORIGINAL

(red)  
%TOT

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
58		NOT FOUND							
59		NOT FOUND							
60		NOT FOUND							
61	202	1910	23:52	48	1.135	A BV	549.	0.349 NC	0.03
62	202	1950	24:22	48	1.159	A BB	744.	0.470 NC	0.04
63		NOT FOUND							
64	149	1787	22:20	48	1.062	A BV	4076.	1.923 NC	0.16
65		NOT FOUND							
66	240	2203	27:32	66	1.000	A BV	31574.	40.000 NC	3.30
67	228	2198	27:28	66	0.998	A BV	2682.	2.836 NC	0.23
68	228	2210	27:37	66	1.003	A*VV	2764.	2.697 NC	0.22
69		NOT FOUND							
70	149	2064	25:48	66	0.937	A BB	593.	0.948 NC	0.08
71	149	2199	27:29	66	0.998	A VV	368.	0.365 NC	0.03
72	149	2390	29:52	66	1.085	A BV	20648.	13.846 NC	1.14
73		NOT FOUND							
74		NOT FOUND							
75		NOT FOUND							
76		NOT FOUND							
77		NOT FOUND							
78		NOT FOUND							
79	252	2573	32:10	66	1.168	A BV	2116.	3.174 NC	0.26

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:13	1.00	1.000	1.00	20.00	20.00	1.000	1.000	1.00
2	6:00		0.587			50.00		0.498	
3	10:13		1.000			50.00		0.869	
4	10:19	1.00	1.009	0.99	5.54	50.00	0.054	0.489	0.11
5	10:24		1.017			50.00		0.948	
6	10:32		1.031			50.00		0.863	
7	10:49		1.059			50.00		0.936	
8	10:55		1.068			50.00		1.035	
9	11:19		1.106			50.00		0.918	
10	11:13		1.098			50.00		0.482	
11	11:31		1.126			50.00		0.333	
12	11:27		1.120			50.00		0.716	
13	11:57		1.169			50.00		0.407	
14	11:45		1.149			50.00		0.754	
15	8:27	1.00	0.826	0.99	173.07	50.00	3.381	0.977	3.46
16	10:06	1.00	0.988	1.00	42.10	50.00	0.325	0.386	0.84
17	12:07	1.00	1.186	1.00	187.30	50.00	3.474	0.927	3.75
18	12:20	1.00	1.207	1.00	207.15	50.00	1.965	0.474	4.14
19	9:58	1.00	0.976	0.99	202.87	50.00	4.488	1.106	4.06
20	16:04	1.00	1.572	1.00	264.79	50.00	5.865	1.107	5.30
21	13:38	1.00	1.000	1.00	20.00	20.00	1.000	1.000	1.00
22	11:49		0.867			50.00		0.091	
23	12:10		0.892			50.00		0.228	
24	12:39		0.928			50.00		0.807	
25	12:51		0.942			50.00		0.229	
26	12:53		0.945			50.00		0.371	
27	13:07		0.962			50.00		0.421	
28	13:21		0.979			50.00		0.304	
29	13:32		0.993			50.00		0.327	
30	13:51		1.016			250.00		0.392	
31	13:19		0.977			250.00		0.166	

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NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
32	14:03		1.030			50.00		0.186	
33	14:53		1.092			50.00		0.367	
34	15:13		1.116			50.00		0.334	
35	15:43		1.152			50.00		0.054	
36	15:55		1.167			50.00		0.174	
37	16:20		1.198			50.00		0.636	
38	17:18		1.269			50.00		0.976	
39	17:04		1.252			50.00		0.823	
40	13:41		1.004			50.00		1.157	
41	17:16		1.266			50.00		0.188	
42	18:10		1.332			50.00		0.255	
43	17:35		1.290			250.00		0.056	
44	16:40		1.223			250.00		0.247	
45	18:04		1.325			50.00		0.863	
46	19:10		1.406			250.00		0.029	
47	16:01		1.174			250.00		0.212	
48	21:01	1.00	1.000	1.00	20.00	20.00	1.000	1.000	1.00
49	17:43		0.844			50.00		0.742	
50	17:51		0.849			250.00		0.048	
51	18:04		0.860			125.00		0.236	
52	18:52		0.898			50.00		0.788	
53	18:49		0.896			50.00		0.335	
54	18:40	1.00	0.888	1.00	2.79	50.00	0.056	1.003	0.06
55	19:05		0.908			250.00		0.084	
56	19:07		0.910			50.00		0.328	
57	19:56		0.949			50.00		0.207	
58	20:18		0.966			50.00		0.229	
59	21:04		1.003			50.00		0.989	
60	21:10		1.008			50.00		1.018	
61	23:49	1.00	1.133	1.00	0.35	50.00	0.007	1.056	0.01
62	24:21	1.00	1.159	1.00	0.47	50.00	0.010	1.063	0.01
63	19:12		0.914			50.00		1.078	
64	22:20	1.00	1.063	1.00	1.92	50.00	0.055	1.423	0.04
65	20:44		0.987			50.00		0.063	
66	27:33	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
67	27:29	1.00	0.998	1.00	2.84	50.00	0.068	1.198	0.06
68	27:38	1.00	1.003	1.00	2.70	50.00	0.070	1.298	0.05
69	27:29		0.998			50.00		0.066	
70	25:48	1.00	0.936	1.00	0.95	50.00	0.015	0.792	0.02
71	27:28	1.00	0.997	1.00	0.37	50.00	0.009	1.276	0.01
72	29:53	1.00	1.085	1.00	13.85	50.00	0.523	1.889	0.28
73	24:19		0.882			150.00		0.004	
74	33:59		1.234			50.00		0.837	
75	42:54		1.557			50.00		0.333	
76	43:07		1.565			50.00		0.395	
77	45:28		1.650			50.00		0.210	
78	32:07		1.166			50.00		1.010	
79	32:13	1.00	1.170	1.00	3.17	50.00	0.054	0.845	0.06



ORIGINAL

C-82

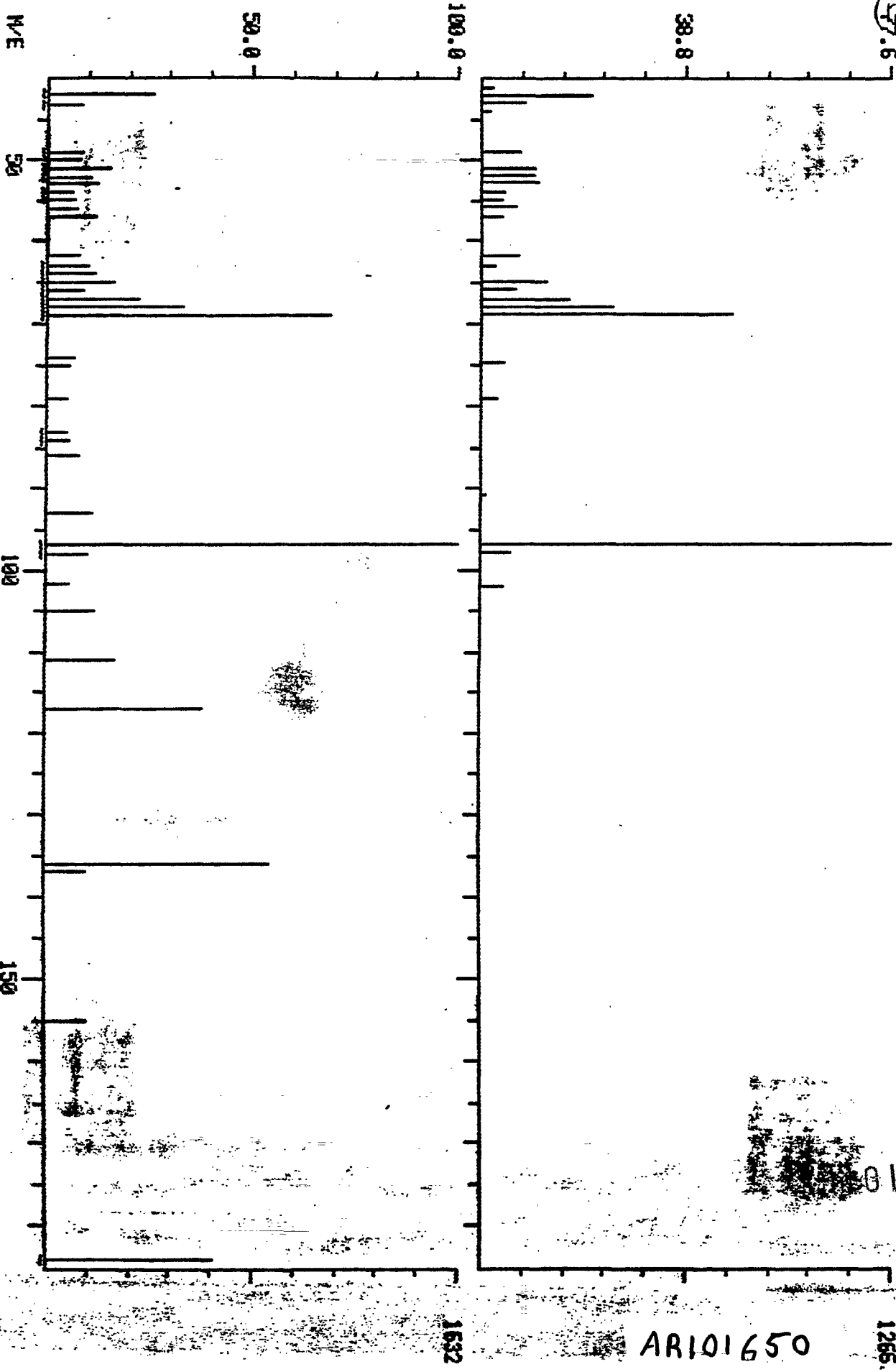
(red)

DUAL MASS SPECTRUM  
02/02/83 11:21:00 + 10:16  
SAMPLE: IUL FSCD SAMPLE #26642(100ULACD&100ULBN&5UL#7188-025)  
ENHANCED (5 150 2N)

HEAD COMPUTED

DATA: CH026642A14 #822

BASE M/E: 97 / 97  
RIC: 4951 / 10511.



UN 1111

(rev)

DUAL MASS SPECTRUM  
02/02/83 11:21:00 + 29:52  
SAMPLE: 10L F500 SAMPLE #26642(100ULHCD&100ULBRASUL#7188-026)  
ENHANCED (5 158 2M)

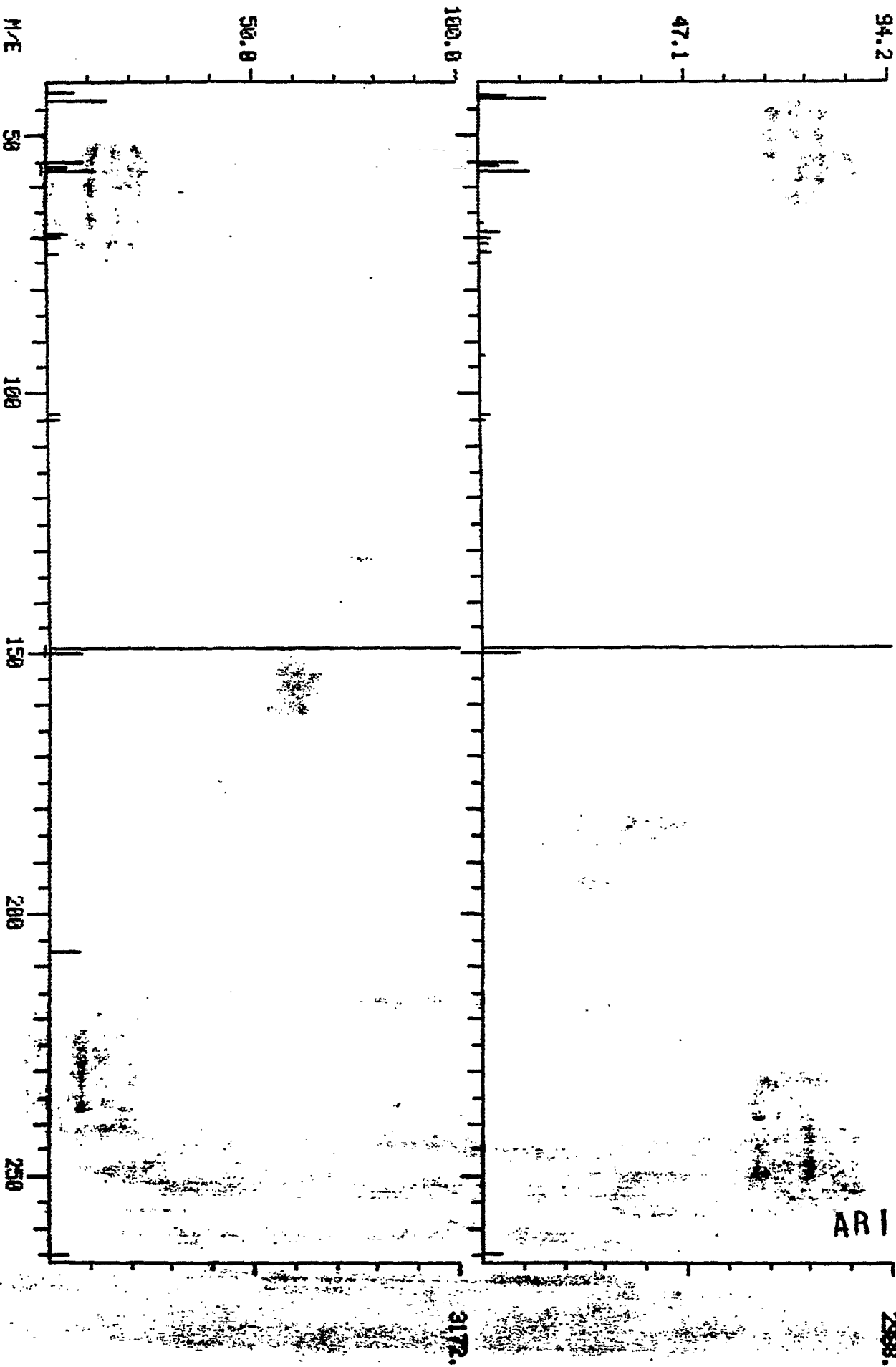
NEAD COMPUTER

DATA: CH026642A14 #2390 BASE M/E: 159 / 149

RIC: 5431 5823.

429

AR1016



C-84

(red)

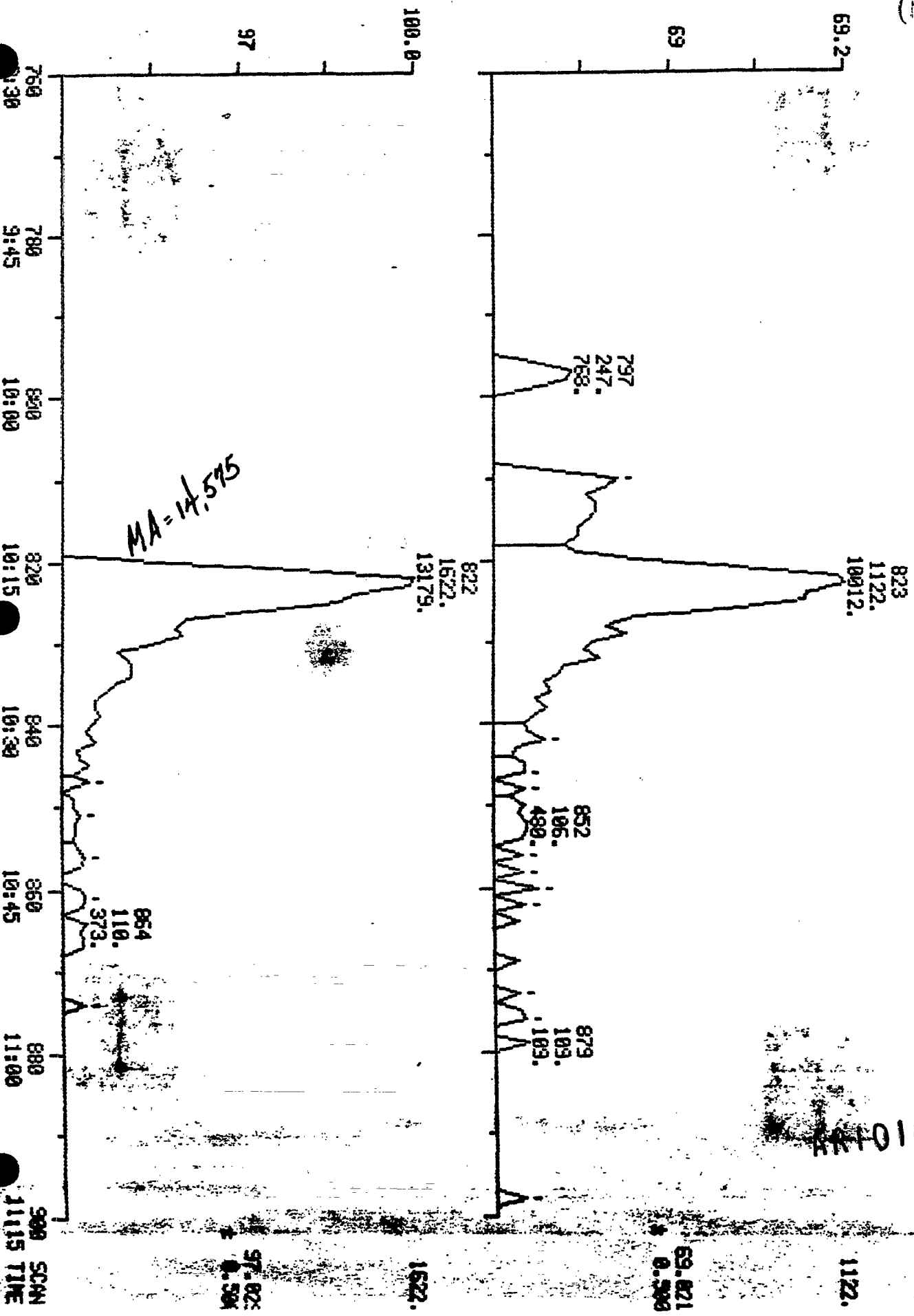
MASS CHROMATOGRAMS  
02/02/83 11:21:00  
SAMPLE: 1UL F5CC SAMPLE #26642(100ULACD&100ULBN&5UL#7188-026)

HEAD COMPUCHEM

DATA: CH026642A14

SCANS 760 TO 900

1101652

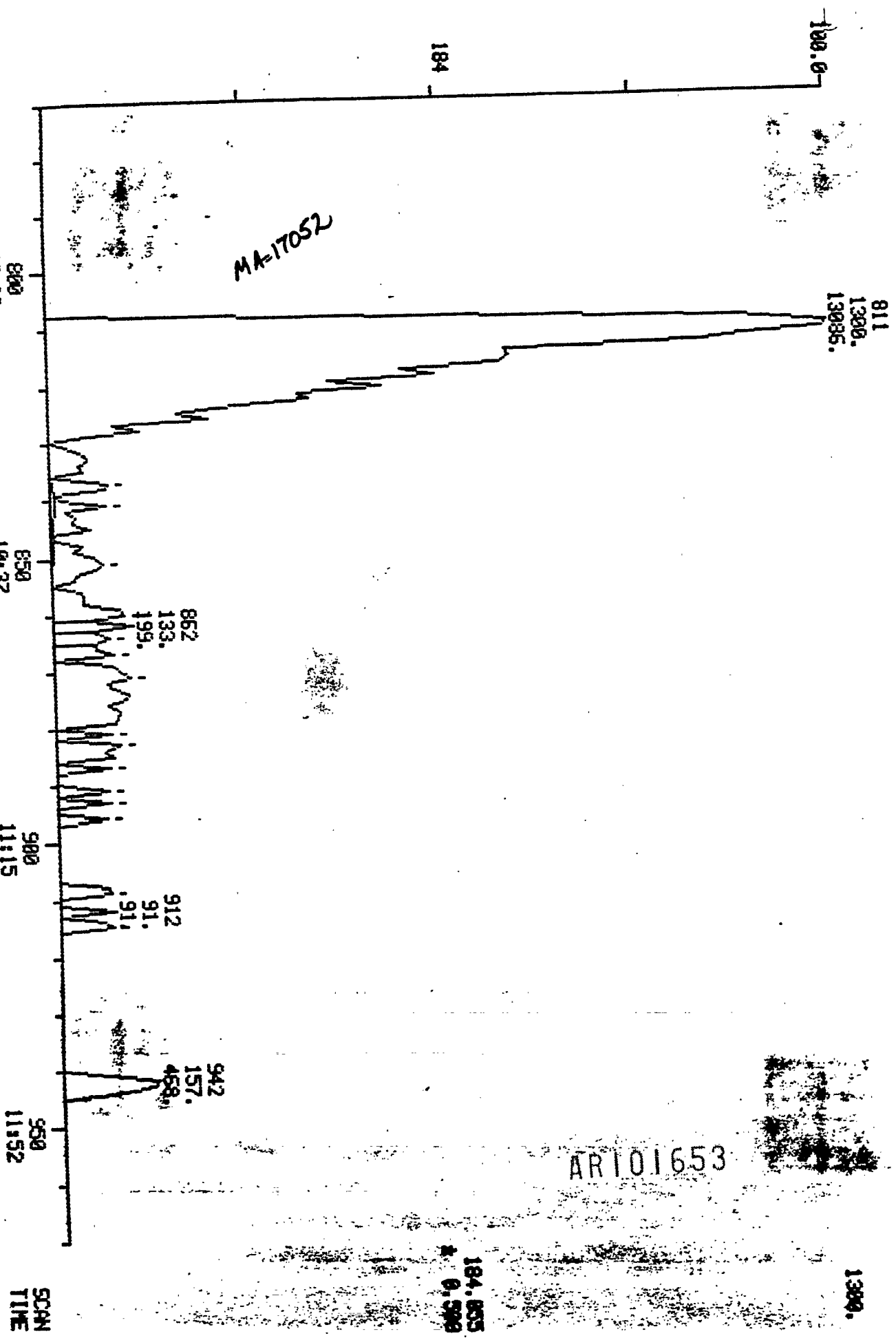


C-85

(red)

MASS CHROMATOGRAM  
02/02/83 11:21:00  
SAMPLE: IUL FSCC SAMPLE #26642(100ULACD&100ULBIR&5UL#7188-025)

HEAD COMPUTED DATA: CH026642&14 SCANS 770 TO 970



600

QUANTITATION REPORT FILE DATA

(red)

1A CH028648A14.11

05/02/83 11:21:00

SAMPLE 1UL F500 SAMPLE #264771000LACDA100ULEN55UL#7181-028)

SUBMITTED BY: 14 ANALYST: NC

AMOUNT=AREA \* REF AMPL/REF AREA \* RESP FACT  
RESP FAC. FROM LIBRARY ENTRY

NO	M/E	SCAN	TIME	REF	REF	METH	AREA (COUNT)	AMOUNT	UNIT
1	RIC	338	4.06	3	6 924	A SE	13810	0.144	0.16
2	RIC	348	4.21	3	6 924	A BU	966516	10.746	12.10
3	FIC	351	4.24	3	1 200	A VE	515750	100.800	11.33
4	RIC	362	4.36	3	1 200	A EV	23073	0.416	0.47
5	RIC	371	4.41	3	1 640	V VE	17008	0.216	0.24
6	RIC	374	4.41	3	1 640	A SE	1088	0.118	0.13
7	FIC	445	5.04	3	1 200	A LA	1073	0.104	0.12
8	RIC	536	7.00	3	1 200	A BU	5700	0.115	0.13
9	RIC	540	7.00	3	1 200	A BU	5002	0.107	0.12
10	RIC	557	7.04	3	1 200	A VE	7996	0.152	0.17
11	RIC	675	8.00	3	1 200	A BU	10708	0.144	0.16
12	RIC	678	8.00	3	1 200	A VE	14736	0.296	0.33
13	RIC	700	8.00	3	1 200	A SE	19385	0.245	0.27
14	RIC	730	8.07	3	2 800	A SE	37402	0.449	0.50
15	RIC	742	8.11	3	2 800	A SE	34578	0.417	0.46
16	RIC	881	10.00	3	1 200	A VE	71000	0.146	0.16
17	FIC	880	10.00	3	1 200	A VE	82884	0.161	0.18
18	RIC	878	10.00	3	1 200	A SE	240000	0.447	0.50
19	RIC	927	10.00	3	2 800	A SE	221650	0.407	0.45
20	RIC	1080	10.00	3	1 200	A SE	60733	0.122	0.14
21	RIC	1090	10.00	3	1 200	A SE	71912	0.141	0.15
22	RIC	1086	10.00	3	1 200	A SE	447789	0.840	0.93
23	RIC	1095	10.00	3	1 200	A SE	7906	0.114	0.12
24	RIC	1082	10.00	3	1 200	A SE	70400	0.136	0.15
25	RIC	2108	26.48	3	6 000	A SE	11362	0.211	0.23
26	RIC	2190	27.28	3	1 200	A BU	21146	0.416	0.45
27	RIC	2102	27.28	3	1 200	A VE	97666	1.844	2.06
28	RIC	2208	28.07	3	6 400	A SE	11072	0.125	0.14
29	RIC	2216	28.07	3	6 400	A SE	9306	0.111	0.12
30	RIC	2208	28.07	3	1 200	A SE	10840	0.107	0.12
31	RIC	2146	28.07	3	1 200	A BU	8476	0.114	0.12
32	RIC	2272	30.00	3	1 200	A BU	4706	0.100	0.11
33	RIC	2279	30.00	3	1 200	A BU	19076	0.343	0.37

AR101654

181

(10)

REPORT MADE  
BY  
DATE  
PROJECT NO.

Form OPA 100

DATE RECEIVED

NO. 11 19

ARI01655

10000  
10000

010-100-01

M LIT 3006  
R PK 145  
R LIT 1590  
R LIT 641

M LIT 3006  
R PK 145  
R LIT 1590  
R LIT 641

M LIT 3006  
R PK 145  
R LIT 1590  
R LIT 641

M E

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020-124-021-12

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SERIAL

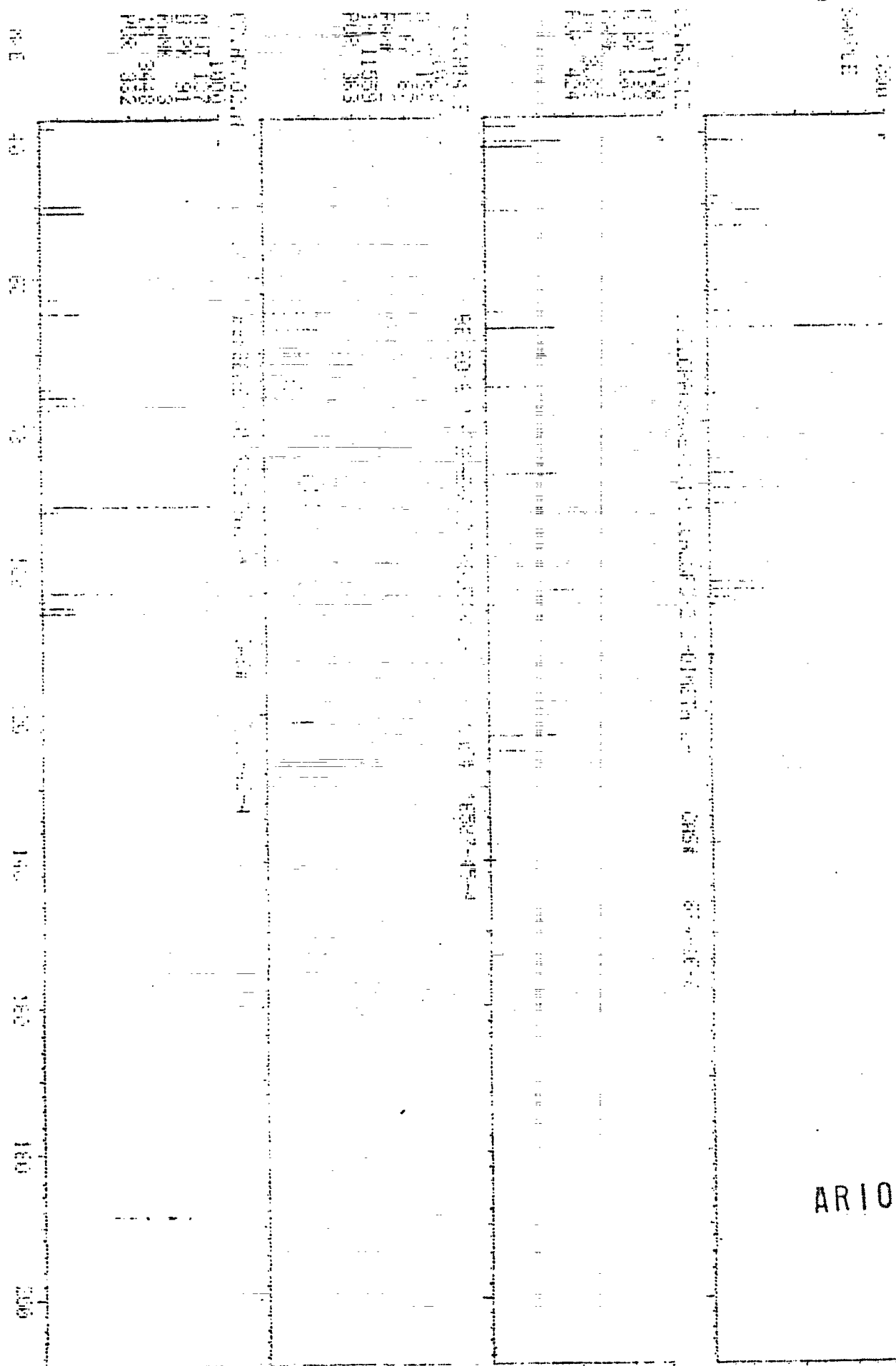
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SERIAL NO. 1000  
DATE OF PURCHASE 10/10/50  
MANUFACTURED BY 1000

UNIT NO. 1000

DATE OF PURCHASE 10/10/50

MANUFACTURED BY 1000

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UNIT NO. 1000

DATE OF PURCHASE 10/10/50

MANUFACTURED BY 1000

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U-87

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**ORIGINAL**  
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REPORT SEPT 20 1954  
12 22 53 (10:00 AM) - 10:00 AM  
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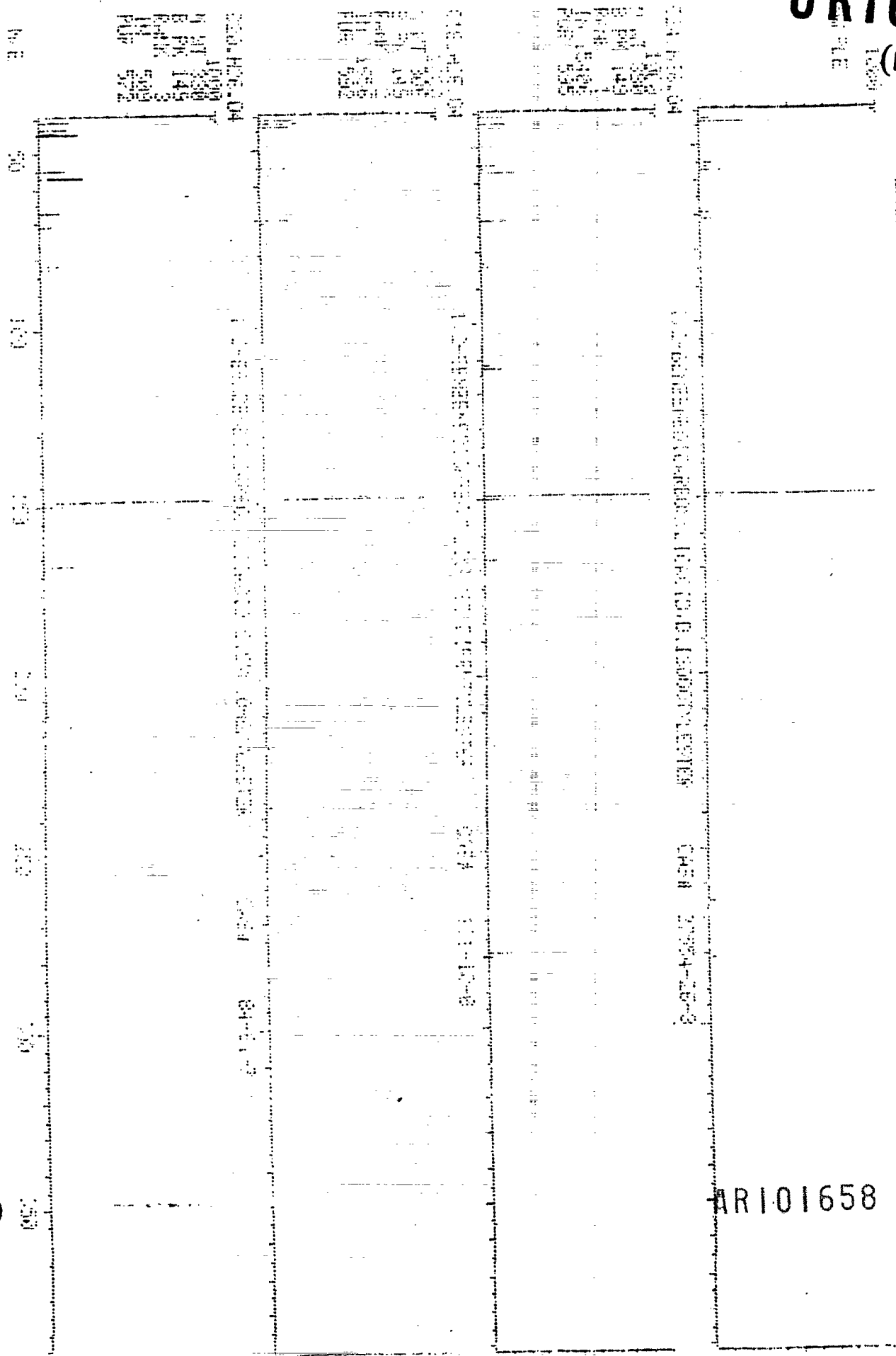
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DATE OF DEPOSIT  
APPROXIMATE  
DATE OF DEPOSIT

APPROXIMATE

DATE OF DEPOSIT

APPROXIMATE

ARI01659

DISPATCH NO

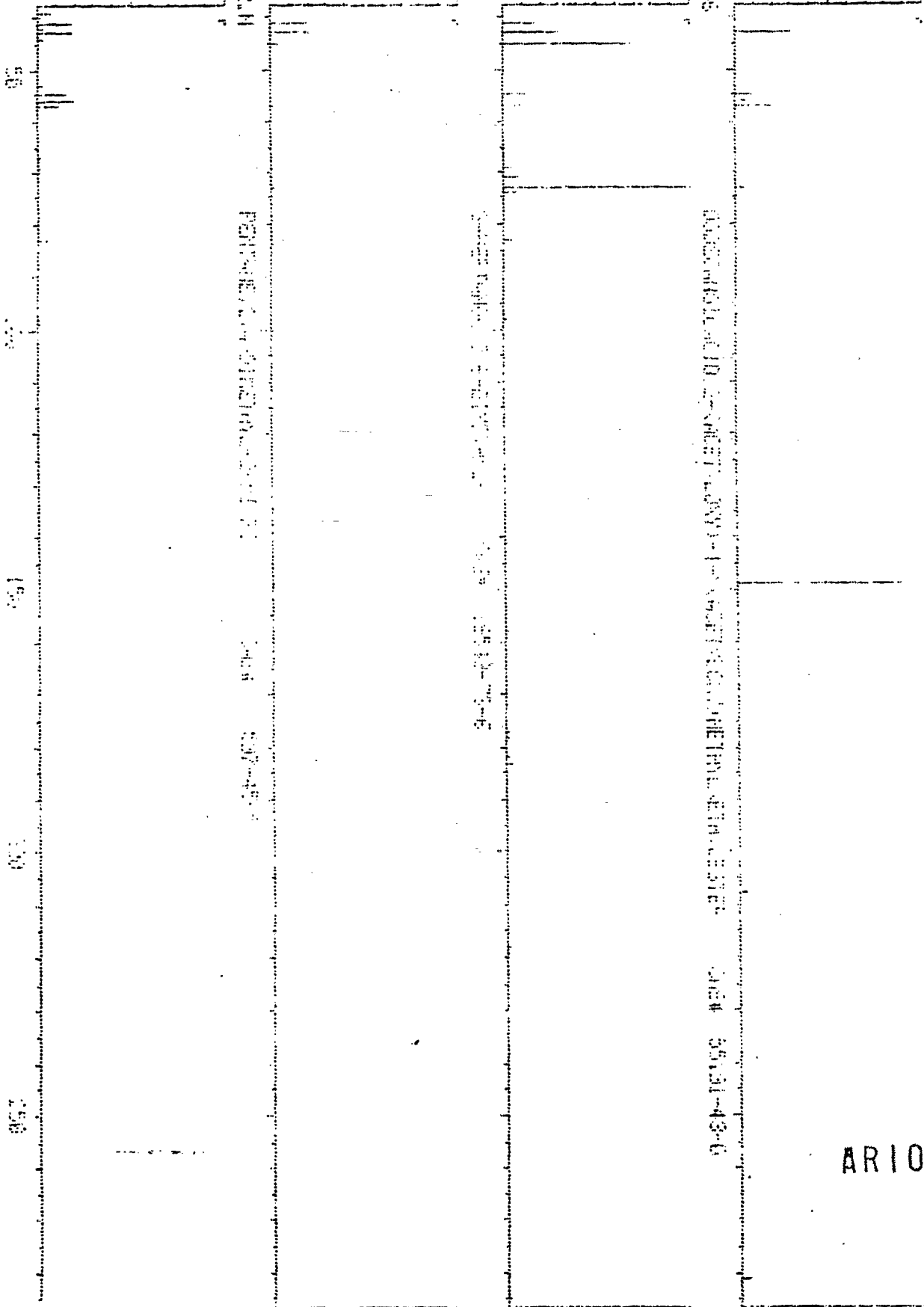
DATE  
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DISPATCH NO

DATE  
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DISPATCH NO

DATE  
TIME  
PLACE



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ORIGINAL

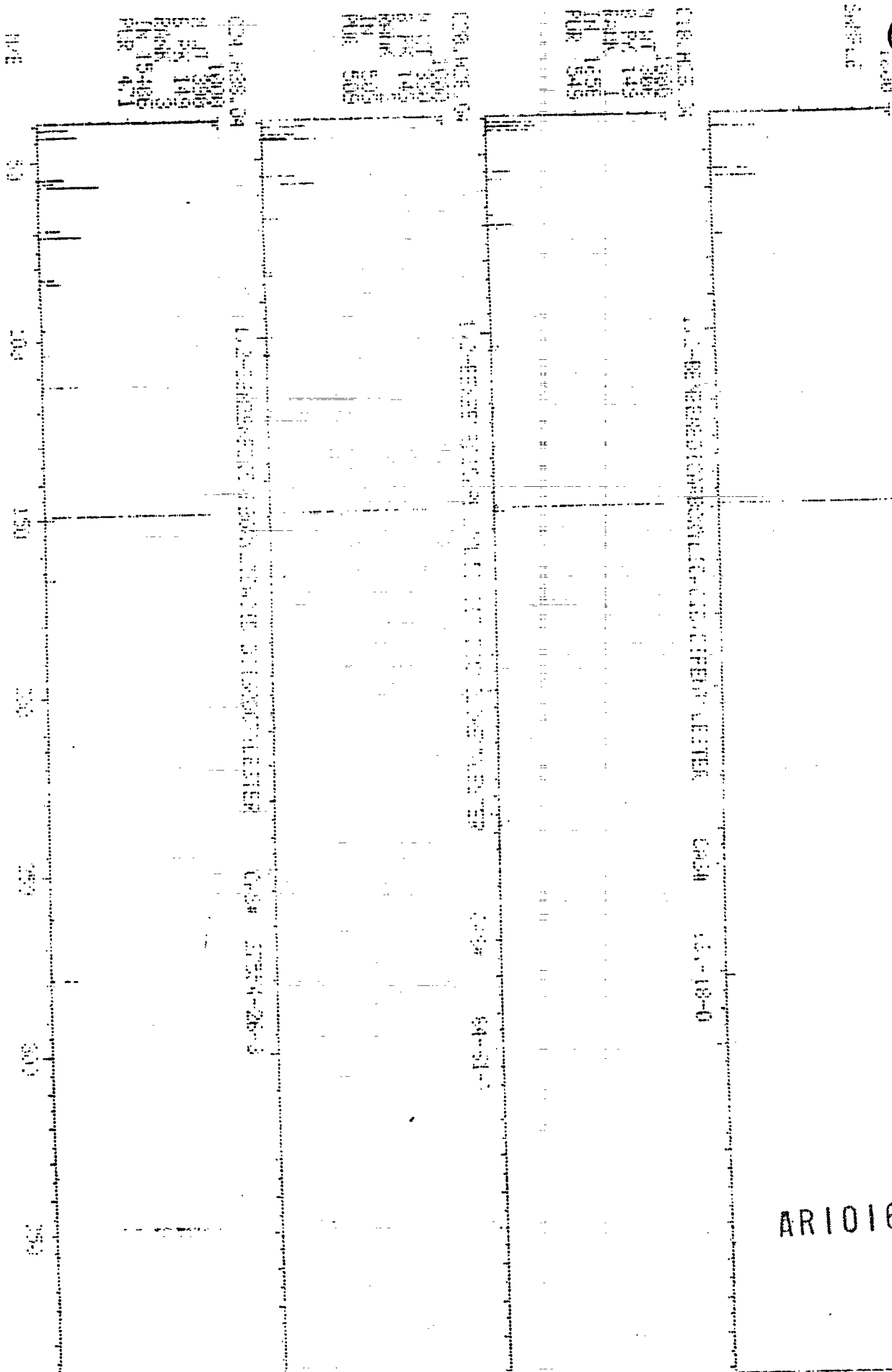
(red)

C-72

FORM SPECIFIC  
NO. 20-203 (REV. 11-20-60) - 1-1  
FOR USE IN THE FIELD BY PERSONNEL OF THE  
BUREAU OF THE ARMY

Form 101-2 (Rev. 1-1-60)  
Original Submission of 21 May 64  
Serial No. 85

AR101660



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C-93

ORIGINAL

(red)

LEAD  
SAMPLE

RECEIVED  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D.C. 20535

REC'D 10/14/66

LABORATORY #2675

BASE ME: 145  
R172

AR10166

016 Nov 04

RECEIVED  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D.C. 20535

RECEIVED LABORATORY DIVISION  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D.C. 20535

016 Nov 04

RECEIVED  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D.C. 20535

RECEIVED LABORATORY DIVISION  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D.C. 20535

016 Nov 04

RECEIVED  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D.C. 20535

RECEIVED LABORATORY DIVISION  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D.C. 20535

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Sample Number  
 LOW LEVEL ONLY

**ORIGINAL**

ORGANICS ANALYSIS DATA SHEET - Page 1

Laboratory Name Head CompuChem  
 Lab Sample ID No. 25620  
Sample Spike

Case Number 1439 (red)  
 QC Report No. 125-50

Multiply all Values and Detection Limits by 1  or 10  or   
 (Check Box for Appropriate Factor)

ACID COMPOUNDS

PP#	CASE#		ug/kg
(21A)	88-06-2	2,4,6-trichlorophenol	400U
(22A)	59-50-7	p-chloro-m-cresol	400U 1400
(24A)	95-57-8	2-chlorophenol	400U 1400
(31A)	122-83-2	2,4-dichlorophenol	400U 1300
(34A)	105-67-9	2,4-dimethylphenol	400U 1200
(57A)	88-75-5	2-nitrophenol	800U
(58A)	100-02-7	4-nitrophenol	4000U
(59A)	51-88-5	2,4-dinitrophenol	2000U 5000
(60A)	534-52-1	4,6-dinitro-2-methylphenol	800U
(64A)	87-36-5	pentachlorophenol	800U 1200
(65A)	108-95-2	phenol	400U 1200

(Non-Priority Pollutant Hazardous Substances)

65-85-0	benzoic acid	4000U
95-48-7	2-methylphenol	400U
108-39-4	4-methylphenol	400U
95-95-4	2,4,5-trichlorophenol	4000U

BASE-NEUTRAL COMPOUNDS

(1B)	83-32-9	acenaphthene	400U 1500
(5B)	92-87-5	benzidine	1600U LT
(8B)	120-82-1	1,2,4-trichlorobenzene	400U 1900
(9B)	118-74-1	hexachlorobenzene	400U 1900
(12B)	67-72-1	hexachloroethane	400U
(18B)	111-44-4	bis(2-chloroethyl)ether	400U 2100
(20B)	91-58-7	2-chloronaphthalene	400U
(25B)	95-50-1	1,2-dichlorobenzene	400U
(26B)	541-73-1	1,3-dichlorobenzene	400U
(27B)	106-46-7	1,4-dichlorobenzene	400U 2100
(28B)	91-94-1	3,3'-dichlorobenzidine	800U 16000
(35B)	121-14-2	2,4-dinitrotoluene	800U 2100
(36B)	606-20-2	2,6-dinitrotoluene	800U 2000
		1,2-diphenylhydrazine	
(37B)	122-66-7	(as azobenzene)	800U
(39B)	206-44-0	fluoranthene	400U
(40B)	7005-72-3	4-chlorophenyl phenylether	400U 1700
(41B)	101-55-3	4-bromophenyl phenyl ether	400U

*N-nitrosodimethylamine 1700*  
*Benzyl Alcohol LT*

BASE/NEUTRAL COMPOUNDS

PP#	CASE#		ug/kg
(42B)	39638-32-9	bis-(2-chloroisopropyl)ether	800U 2400
(43B)	11-91-1	bis-(2-chloroethoxy)methane	800U
(52B)	87-68-3	hexachlorobutadiene	400U
(53B)	77-47-4	hexachlorocyclopentadiene	400U 800
(54B)	78-59-1	isophorone	400U
(55B)	91-20-3	naphthalene	400U
(56B)	98-95-3	nitrobenzene	400U
(62B)	86-30-6	N-nitrosodiphenylamine	400U
(63B)	621-64-7	N-nitrosodi-n-propylamine	800U 590
(66B)	117-81-7	bis(2-ethylhexyl)phthalate	400U 200
(67B)	85-68-7	butyl benzyl phthalate	400U
(68B)	84-74-2	di-n-butyl phthalate	400U 2100
(69B)	117-84-0	di-n-octyl phthalate	400U 2100
(70B)	84-66-2	diethyl phthalate	400U
(71B)	131-11-3	dimethyl phthalate	400U
(72B)	56-55-3	benzo(a)anthracene	400U
(73B)	50-33-8	benzo(a)pyrene	800U
(74B)	205-99-2	benzo(b)fluoranthene	800U
(75B)	207-08-9	benzo(k)fluoranthene	800U
(76B)	318-01-9	chrysene	400U 2900
(77B)	208-96-8	acenaphthylene	400U
(78B)	120-12-7	anthracene	400U
(79B)	181-24-2	benzo(ghi)perylene	800U 1700
(80B)	86-73-7	fluorene	400U
(81B)	85-01-8	phenanthrene	400U
(82B)	53-70-3	dibenzo(a,h)anthracene	800U
(83B)	183-39-5	indeno(1,2,3-cd)pyrene	800U
(84B)	129-00-0	pyrene	400U 2000

(Non-Priority Pollutant Hazardous Substances)

62-53-3	aniline	400U
100-51-6	benzyl alcohol	800U
106-47-8	4-chloroaniline	2000U
132-64-9	dibenzofuran	400U
91-57-6	2-methylnaphthalene	800U
88-74-4	2-nitroaniline	4000U
99-09-2	3-nitroaniline	4000U
100-01-6	4-nitroaniline	4000U

AR101662

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## ORGANICS ANALYSIS DATA SHEET - Page 3

ORIGINAL

Lab Name: Mead CompuChemLab Sample I.D. No. 25620

Sample Spike

(red)

## A. SURROGATE SPIKE RESULTS

COMPOUND	FRACTION	CONC (ug/kg)	(Surrogates only)	
			Spike Added (ug/kg)	% Recovery
2-Fluorophenol	SEMIVOA	2700	5000	54
Pentafluorophenol	SEMIVOA	3300	5000	66
D6-Phenol	SEMIVOA			
D5-Nitrobenzene	SEMIVOA	5400	5000	108
Decafluorobiphenyl	SEMIVOA	22000	5000	440*
2-Fluorobiphenyl	SEMIVOA	12000	5000	240*
2-Fluoroaniline	SEMIVOA	5500	5000	110

\* suspected interference

AR101663

C-96

ORIGINAL

PAGE 1 of 2

(red)

LAB NAME: MEAD COMPUTCHEM

QC REPORT NO: 125-50

CASE NO: 1439

25620 23888 C2342  
 C SAMPLE NO. ORIGINAL NO. EPA NO.  
 ASSOCIATED SAMPLE NOS: 23888-23893  
 23895-23897, 25620-21

PP#	CAS#	COMPOUNDS	ORIG SAMPLE RESULTS	QC SAMPLE RESULTS	SPIKE ADDED ug/kg	% RECOVERY
(21A)	88-06-2	2,4,6-trichlorophenol	NO			
(22A)	59-50-7	p-chloro-m-cresol	-	1400	2000	70
(24A)	95-57-8	2-chlorophenol	-	1400	2000	70
(31A)	122-83-2	2,4-dichlorophenol	-	1300	2000	65
(34A)	105-67-9	2,4-dimethylphenol	-	1200	2000	60
(57A)	88-75-5	2-nitrophenol	-			
(58A)	100-02-7	4-nitrophenol	-	640	12000	5.3
(59A)	51-88-5	2,4-dinitrophenol	-	5000	10000	50
(60A)	534-52-1	4,6-dinitro-2-methylphenol	-			
(64A)	87-36-5	pentachlorophenol	-	1200	2000	60
(65A)	108-95-2	phenol	-	1200	2000	60
( 1B)	83-32-9	acenaphthene	-	1500	2000	75
( 5B)	92-87-5	benzidine	-	1280	24000	5.3
( 8B)	120-82-1	1,2,4-trichlorobenzene	-	1900	2000	95
( 9B)	118-74-1	hexachlorobenzene	-	1900	2000	95
(12B)	67-72-1	hexachloroethane	-			
(18B)	111-44-4	bis(2-chloroethyl)ether	-	2200	2000	110
(20B)	91-58-7	2-chloronaphthalene	-			
(25B)	95-50-1	1,2-dichlorobenzene	-			
(26B)	541-73-1	1,3-dichlorobenzene	-			
(27B)	106-46-7	1,4-dichlorobenzene	-	2100	2000	105
(28B)	91-94-1	3,3'-dichlorobenzidine	-	16000	24000	67
(35B)	121-14-2	2,4-dinitrotoluene	-	2100	2000	105
(36B)	606-20-2	2,6-dinitrotoluene	-	2000	2000	100
		N-nitrosodimethylamine		1700	2000	85

Low

AR101664

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# ORIGINAL

(red)

PAGE 2 of 2  
 LAB NAME: MEAD COMPUTHEM®  
 QC REPORT NO: 125-50  
 CASE NO: 1439

PP#	CAS#	COMPOUNDS	ORIG	QC	SPIKE ADDED	% RECOVERY
			SAMPLE RESULTS	SAMPLE RESULTS	ug/kg	
(37B)	122-66-7	1,2-diphenylhydrazine	-			
(39B)	206-44-0	fluoranthene	-			
(40B)	7005-72-3	4-chlorophenyl phenylether	-	1700	2000	85
(41B)	101-55-3	4-bromophenyl phenyl ether	-			
(42B)	39638-32-9	bis-(2-chloroisopropyl)ether	-	2400	2000	120
(43B)	11-91-1	bis-(2-chloroethoxy)methane	-			
(52B)	87-68-3	hexachlorobutadiene	-			
(53B)	77-47-4	hexachlorocyclopentadiene	-	880	2000	44
(54B)	78-59-1	isophorone	-			
(55B)	91-20-3	naphthalene	-			
(56B)	98-95-3	nitrobenzene	-			
(62B)	86-30-6	N-nitrosodiphenylamine	-			
(63B)	621-64-7	N-nitrosodi-n-propylamine	-	5900	16000	
(66B)	117-81-7	bis(2-ethylhexyl)phthalate	-	2000	2000	100
(67B)	85-68-7	butyl benzyl phthalate	-			
(68B)	84-74-2	di-n-butyl phthalate	-	2100	2000	105
(69B)	117-84-0	di-n-octyl phthalate	1200	2100	2000	45
(70B)	84-66-2	diethyl phthalate	-			
(71B)	131-11-3	dimethyl phthalate	-			
(72B)	56-55-3	benzo(a)anthracene	-			
(73B)	50-33-8	benzo(a)pyrene	-			
(74B)	205-99-2	benzo(b)fluoranthene	-			
(75B)	207-08-9	benzo(k)fluoranthene	-			
(76B)	318-01-9	chrysene	-	2900	2000	145
(77B)	208-96-8	acenaphthylene	-			
(78B)	120-12-7	anthracene	-			
(79B)	181-24-2	benzo(ghi)perylene	-	1700	2000	85
(80B)	86-73-7	fluorene	-			
(81B)	85-01-8	phenanthrene	-			
(82B)	53-70-3	di benzo(a,h)anthracene	-			
(83B)	183-39-5	indeno(1,2,3-cd)pyrene	-			
(84B)	129-00-0	pyrene	-	AR 2900 665	2000	100



LHB SAMPLE I.D. # 025620

SAMPLE # \_\_\_\_\_

ESTIMATED CONCENTRATION OF TENTATIVELY IDENTIFIED COMPOUNDS  
ANALYTICAL FRACTION: F5035

ITEM	SCAN NUMBER	CAS #	COMPOUND NAME	PURITY %	ESTIMATED CONC. (UG/G) OR (UG/L)
1	479	62-75-9	METHANAMINE, N-METHYL-N-NITROSO-	58.3	390.
2	501	-	SEARCH RESULTS < 80% PURITY	---	210.
3	625	123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	89.7	350.
4	730	-	SEARCH RESULTS < 80% PURITY	---	160.
5	1655	87-86-5	PHENOL, PENTACHLORO-	83.3	610.
6	1652	-	SEARCH RESULTS < 80% PURITY	.	470.

33-2001  
**ORIGINAL**  
(red)

C 98

ORIGINAL

(red)

C-99

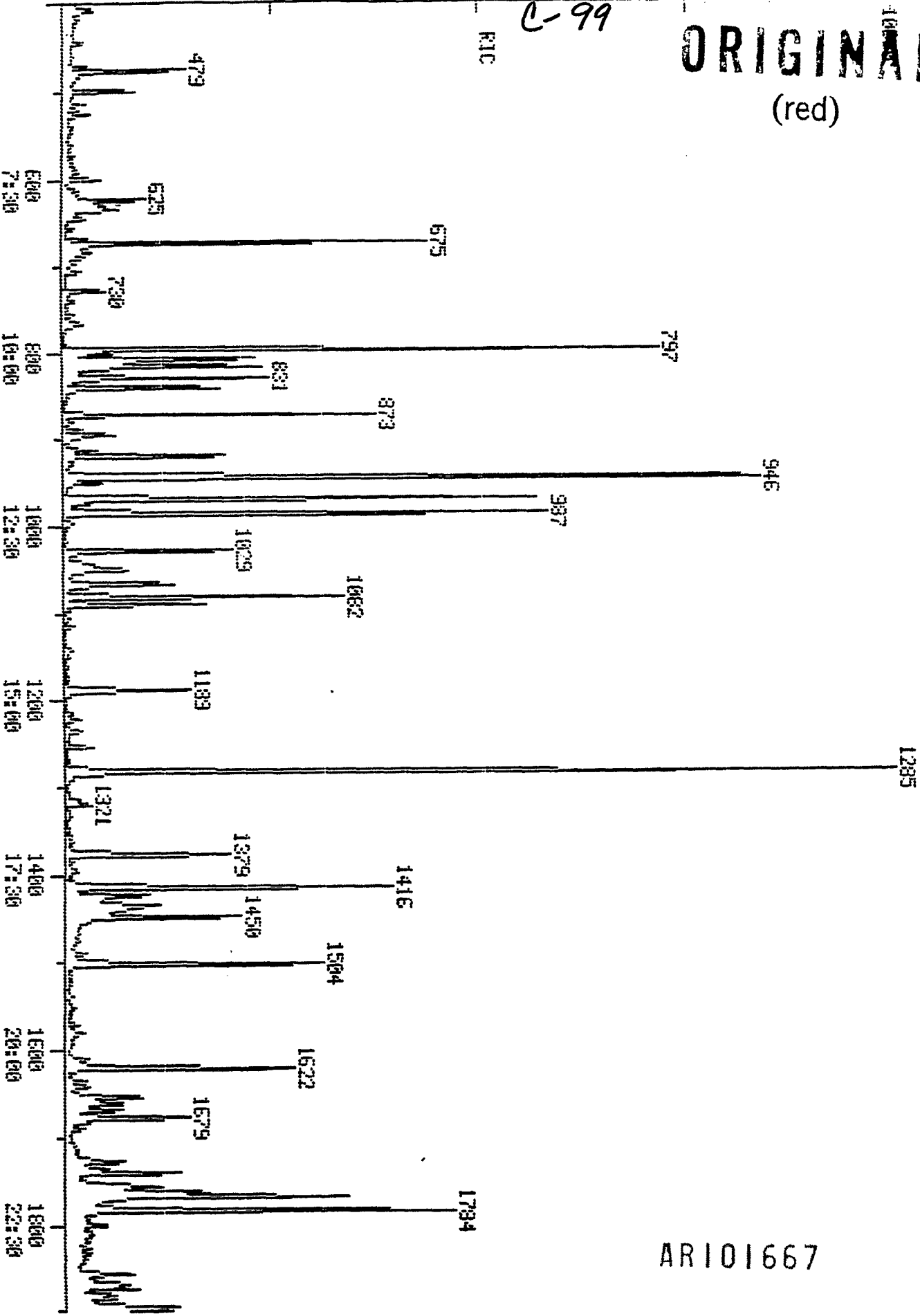
RIC

RIC  
01/26/83 15:01:00  
SAMPLE: 10L F5CC SAMPLE #25620(100LACD:100LBN&SUL#7136-026)

HEAD COMPUTER

DATA: GH025620A14

SCANS: 400 TO 1900  
OUT OF 400 TO 3800

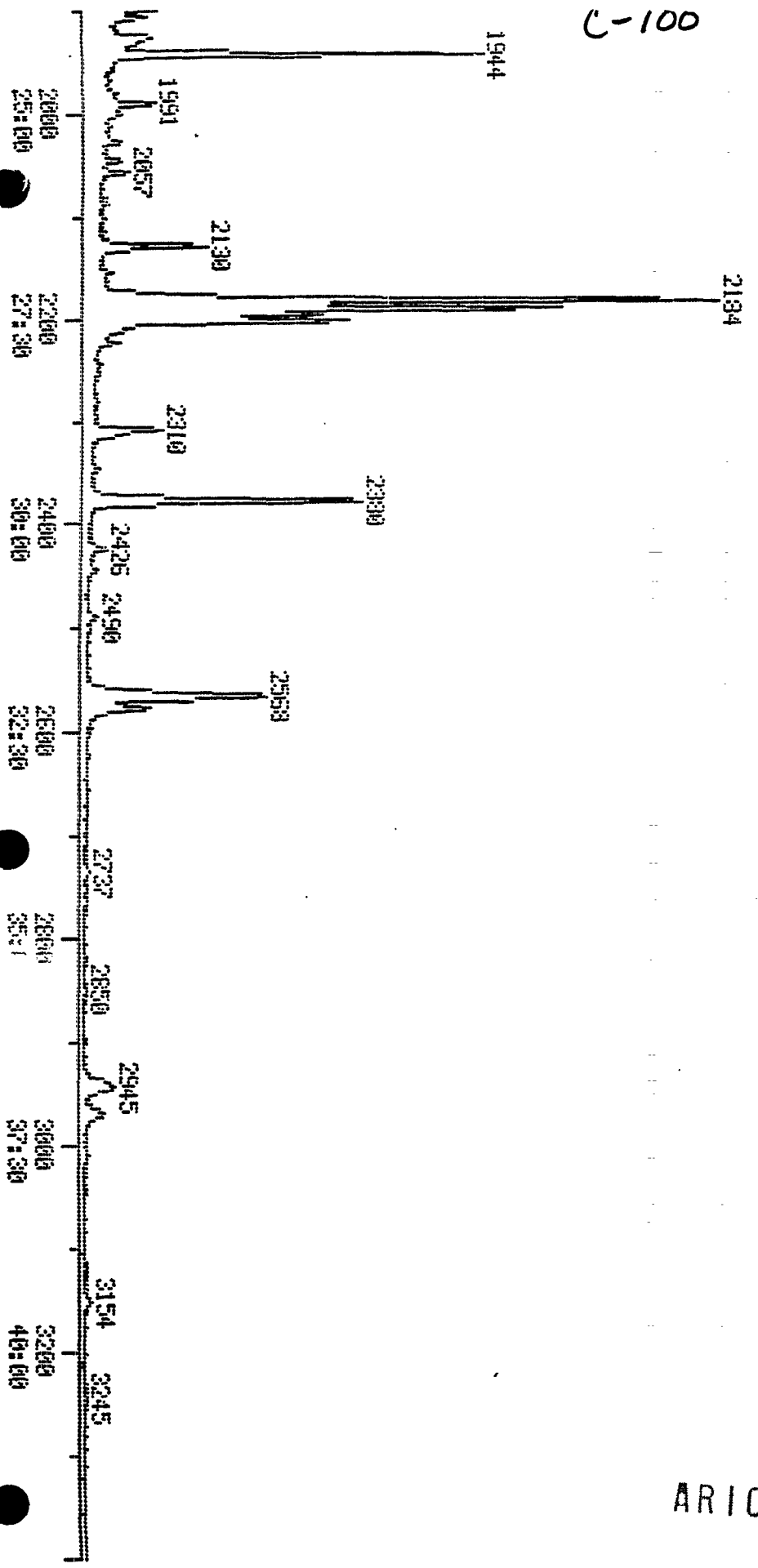


AR101667

ORIGINAL

(red)

C-100



RIC  
01/26/83 15:01:00  
SAMPLE: 1UL F5CC SAMPLE #25620(100ULACD&100ULEN&SUL#7136-026)

HEAD COMP/CHEN  
DATA: GH025620H14

SCANS 1500 TO 3400  
OUT OF 400 TO 3800

AR101668

ORIGINAL

(red)

RIC  
01/26/83 15:01:00  
SAMPLE: IUL FSCC SAMPLE #25620(100ULAC06100ULENRSUL#7136-026)

HEAD COMPUTED

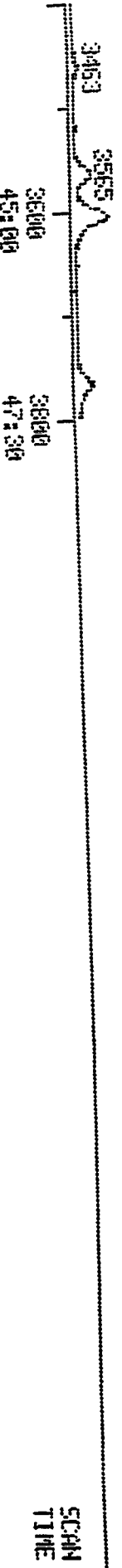
DATA: GH025620R14

SCANS 3400 TO 3800  
OUT OF 400 TO 3800

284160.

AR101669

C-101



PROCEDURE: RK  
 DATA FILE: GH025620A14  
 REFERENCE: FSCC6  
 METHOD: FSCC6  
 REPORT: FSCC6S1

DIAGNOSTIC REPORT

1/26/83 10.00 10

ORIGINAL

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

(red)

STANDARDS				PLUS UNKNOWN				LIST NAMES	
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN	
4	4	2	38	65	37	24	87	FSCC6S1/FSCC6U1	
2	2	1	8	15	9	1	173	FSCC6S2/FSCC6U2	

79 COMPOUNDS PROCESSED, 45 FOUND

COMPOUND			SEARCH					SAT		CHRO			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/E	TOP	DELTA	PEAKS
1	F1	1	817	817	817	.	2	985	.	97	817	.	1
2	F2	1	1090	1090	1090	.	1	976	.	136	1090	.	1
3	F1	20	1284	1285	1285	.	1	978	-1	172	1285	.	1
4	F3	1	1678	1679	1679	.	1	983	.	188	1679	.	1
5	F1	2	479	479	479	.	1	968	.	74	479	.	1
6	F1	3	817	817	817	.	1	980	.	94	817	.	1
7	F1	4	824	824	.	.	.	.	.	93	.	.	.
8	F1	5	832	832	831	-1	1	997	.	93	831	.	1
9	F1	6	842	842	842	.	1	976	.	128	842	.	1
10	F1	7	865	865	.	.	.	.	.	146	.	.	.
11	F1	8	873	873	873	.	1	979	.	146	873	.	1
12	F1	9	905	905	.	.	.	.	.	146	.	.	.
13	F1	10	896	896	896	.	1	984	.	108	896	.	1
14	F1	11	920	920	920	.	1	972	.	121	920	.	1
15	F1	12	914	914	.	.	.	.	.	108	.	.	.
16	F1	13	956	956	.	.	.	.	.	117	.	.	.
17	F1	14	938	938	.	.	.	.	.	108	941	.	1
18	F1	15	676	676	675	-1	1	972	.	112	675	.	1
19	F1	16	808	808	808	.	1	988	.	184	808	.	1
20	F1	17	969	969	969	.	1	993	.	82	969	.	1
21	F1	18	986	986	987	1	1	977	.	334	987	.	1
22	F1	19	797	797	797	.	1	979	.	111	797	.	1
23	F2	2	945	945	946	1	4	978	.	130	945	-1	1
24	F2	3	972	972	.	.	.	.	.	123	.	.	.
25	F2	4	1011	1011	.	.	.	.	.	82	1011	.	1
26	F2	5	1027	1027	.	.	.	.	.	139	.	.	.
27	F2	6	1029	1029	1029	.	1	979	.	122	1029	.	1
28	F2	7	1047	1047	.	.	.	.	.	93	.	.	.
29	F2	8	1067	1067	1067	.	1	975	.	162	1067	.	1
30	F2	9	1062	1062	1062	.	1	978	.	180	1062	.	1
31	F2	10	1106	1106	.	.	.	.	.	127	1107	.	2
32	F2	11	1062	1062	1066	4	6	978	.	105	.	.	.
33	F2	12	1123	1123	.	.	.	.	.	225	.	.	.
34	F2	13	1188	1188	1189	1	1	976	.	107	1189	.	1
35	F2	14	1216	1216	.	.	.	.	.	115	1217	.	1
36	F2	15	1255	1256	1255	-1	1	974	.	237	1255	.	1
37	F2	16	1271	1272	.	.	.	.	.	176	.	.	.
38	F2	17	1304	1305	.	.	.	.	.	162	.	.	.
39	F2	18	1382	1383	.	.	.	.	.	152	1382	.	1
40	F2	19	1363	1364	1364	.	1	965	.	163	1364	.	1
41	F2	20	1074	1074	1073	-1	1	975	.	128	1074	.	1
42	F2	21	1378	1379	1379	.	1	975	.	165	1379	.	1
43	F2	22	1450	1451	1450	-1	1	987	.	165	1450	.	1
44	F2	23	1409	1410	.	.	.	.	.	138	.	.	.
45	F2	24	1331	1332	.	.	.	.	.	138	.	.	.
46	F2	25	1443	1444	.	.	.	.	.	168	.	.	.
47	F2	26	1527	1528	.	.	.	.	.	138	.	.	.
48	F2	27	1278	1279	.	.	.	.	.	196	.	.	.
49	F2	28	1215	1216	1216	.	1	1080	.	154	1216	.	1

ART 101670



DATA: GH025620A14.TI

01/26/83 15:01:00

SAMPLE: 1UL FSCC SAMPLE #25620(100ULACD&amp;100ULBN&amp;5UL#7136-026)

SUBMITTED BY: 14

ANALYST: NC

ORIGINAL

(red)

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)

RESP. FAC. FROM LINEAR FIT TO WHOLE .RL

NO	NAME
1	*D3-PHENOL (INTERNAL STANDARD) (624)
2	N-NITROSODIMETHYLAMINE (441)
3	PHENOL (610)
4	ANILINE (473)
5	BIS(2-CHLOROETHYL)ETHER (411)
6	2-CHLOROPHENOL (601)
7	1,3-DICHLOROBENZENE (421)
8	1,4-DICHLOROBENZENE (422)
9	1,2-DICHLOROBENZENE (420)
10	BENZYL ALCOHOL (474)
11	BIS(2-CHLOROISOPROPYL)ETHER (412)
12	2-METHYLPHENOL (620)
13	HEXACHLOROETHANE (436)
14	4-METHYLPHENOL (622)
15	2-FLUOROPHENOL (SURROGATE) (619)
16	PENTAFLUOROPHENOL (SURROGATE) (623)
17	D5-NITROBENZENE (SURROGATE) (447)
18	DECAFLUOROBIPHENYL (SURROGATE) (470)
19	2-FLUOROANILINE (SURROGATE) (472)
20	2-FLUOROBIPHENYL (SURROGATE) (448)
21	*D8-NAPHTHALENE (INTERNAL STANDARD) (460)
22	N-NITROSO-DI-N-PROPYLAMINE (442)
23	NITROBENZENE (440)
24	ISOPHORONE (438)
25	2-NITROPHENOL (606)
26	2,4-DIMETHYLPHENOL (603)
27	BIS(2-CHLOROETHOXY)METHANE (410)
28	2,4-DICHLOROPHENOL (602)
29	1,2,4-TRICHLOROBENZENE (446)
30	4-CHLOROANILINE (475)
31	BENZOIC ACID (625)
32	HEXACHLOROBTADIENE (434)
33	P-CHLORO-M-CRESOL (608)
34	2-METHYLNAPHTHALENE (472)
35	HEXACHLOROCYCLOPENTADIENE (435)
36	2,4,6-TRICHLOROPHENOL (611)
37	2-CHLORONAPHTHALENE (416)
38	ACENAPHTHYLENE (402)
39	DIMETHYLPHTHALATE (425)
40	NAPHTHALENE (439)
41	2,6-DINITROTOLUENE (428)
42	2,4-DINITROTOLUENE (427)
43	3-NITROANILINE(479)
44	2-NITROANILINE(478)
45	DIBENZOFURAN (476)
46	4-NITROANILINE(480)

AR101672

C-100

ORIGINAL

(red)

NO NAME  
47 2, 4, 5-TRICHLOROPHENOL (626)  
48 \*D10-PHENANTHRENE (INTERNAL STANDARD) (467)  
49 ACENAPHTHENE (401)  
50 2, 4-DINITROPHENOL (605)  
51 4-NITROPHENOL (607)  
52 FLUORENE (432)  
53 4-CHLOROPHENYL PHENYL ETHER (417)  
54 DIETHYLPHTHALATE (424)  
55 4, 6-DINITRO-O-CRESOL (604)  
56 DIPHENYLAMINE (N-NITROSO) (443)  
57 4-BROMOPHENYL PHENYL ETHER (414)  
58 HEXACHLOROBENZENE (433)  
59 PHENANTHRENE (444)  
60 ANTHRACENE (403)  
61 FLUORANTHENE (431)  
62 PYRENE (445)  
63 1, 2-DIPHENYLHYDRAZINE (AZOBENZENE) (430)  
64 DI-N-BUTYLPHTHALATE (426)  
65 PENTACHLOROPHENOL (609)  
66 \*D12-CHRYSENE (INTERNAL STANDARD) (459)  
67 BENZO(A)ANTHRACENE (405)  
68 CHRYSENE (418)  
69 3, 3'-DICHLOROBENZIDINE (423)  
70 BUTYLBENZYLPHTHALATE (415)  
71 BIS(2-ETHYLHEXYL)PHTHALATE (413)  
72 DI-N-OCTYLPHTHALATE (429)  
73 BENZIDINE (404)  
74 BENZO(A)PYRENE (406)  
75 INDENO(1, 2, 3-C, D)PYRENE (#437)  
76 DIBENZO(A, H)ANTHRACENE (419)  
77 BENZO(G, H, I)PERYLENE (408)  
78 BENZO(B)FLUORANTHENE (407)  
79 BENZO(K)FLUORANTHENE (409)

NO M/E SCAN TIME REF RRT METH AREA(HGHT) AMOUNT %TOT

AR101673



100

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	97	817	10:13	1	1.000	A BV	25087.	20.000 NG	0.55
2	74	479	5:59	1	0.586	A BV	37221.	43.070 NG	1.18Y
3	94	817	10:13	1	1.000	A BV	35316.	30.299 NG	0.83Y
4	NOT FOUND								
5	93	831	10:23	1	1.017	A BV	58056.	54.040 NG	1.48Y
6	128	842	10:31	1	1.031	A BV	35034.	34.093 NG	0.94Y
7	NOT FOUND								
8	146	873	10:55	1	1.069	A BV	62364.	52.846 NG	1.45Y
9	NOT FOUND								
10	108	896	11:12	1	1.097	A BV	8329.	15.077 NG	0.41Y
11	121	920	11:30	1	1.126	A VB	21257.	59.949 NG	1.65Y
12	NOT FOUND								
13	NOT FOUND								
14	108	941	11:46	1	1.152	A BV	304.	0.328 NG	0.01
15	112	675	8:26	1	0.826	A BV	85670.	68.008 NG	1.87
16	184	808	10:06	1	0.989	A BB	46200.	82.615 NG	2.27
17	82	969	12:07	1	1.186	A BV	145353.	133.725 NG	3.67
18	334	987	12:20	1	1.208	A BB	95657.	545.719 NG	14.98
19	111	797	9:58	1	0.976	A BV	173024.	137.507 NG	3.77
20	172	1285	16:04	1	1.573	A BV	257954.	308.926 NG	8.48
21	136	1090	13:37	21	1.000	A BV	52926.	20.000 NG	0.55
22	130	945	11:49	21	0.867	A BB	48179.	146.896 NG	4.03Y
23	NOT FOUND								
24	82	1011	12:38	21	0.928	A BB	1396.	0.617 NG	0.02
25	NOT FOUND								
26	122	1029	12:52	21	0.944	A BB	28242.	30.941 NG	0.85Y
27	NOT FOUND								
28	162	1067	13:20	21	0.979	A BV	26099.	32.702 NG	0.90Y
29	180	1082	13:31	21	0.993	A BV	43966.	47.568 NG	1.31Y
30	127	1107	13:50	21	1.016	A*BB	287.	0.900 NG	0.02
31	NOT FOUND								
32	NOT FOUND								
33	107	1189	14:52	21	1.091	A BV	33798.	34.705 NG	0.95Y
34	115	1217	15:13	21	1.117	A BB	971.	1.148 NG	0.03
35	237	1255	15:41	21	1.151	A BB	3587.	22.131 NG	0.61Y
36	NOT FOUND								
37	NOT FOUND								
38	152	1382	17:16	21	1.268	A BB	589.	0.254 NG	0.01
39	163	1364	17:03	21	1.251	A VB	2442.	1.197 NG	0.03
40	128	1094	13:40	21	1.004	A BB	1767.	0.627 NG	0.02
41	165	1379	17:14	21	1.265	A BB	26224.	50.482 NG	1.39Y
42	165	1450	18:07	21	1.330	A VB	36337.	51.884 NG	1.42Y
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	188	1679	20:59	48	1.000	A BV	57004.	20.000 NG	0.55
49	154	1416	17:42	48	0.843	A BV	89303.	36.945 NG	1.01Y
50	184	1424	17:48	48	0.848	A BV	20663.	125.048 NG	3.43Y
51	139	1444	18:03	48	0.860	A*VB	10890.	15.608 NG	0.43Y
52	NOT FOUND								
53	204	1504	18:48	48	0.896	A BB	43972.	41.639 NG	1.14Y
54	149	1491	18:38	48	0.888	A VB	5983.	2.089 NG	0.06
55	NOT FOUND								
56	NOT FOUND								

AR101674

ORIGINAL  
(red)

C-107

NO.	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
57	NOT FOUND								
58	284	1622	20:16	48	0.966	A BB	36284.	47.642 NG	1.314
59	178	1683	21:02	48	1.002	A BB	2530.	0.788 NG	0.02
60	178	1692	21:09	48	1.008	A BB	319.	0.121 NG	0.00
61	202	1902	23:46	48	1.133	A BB	5958.	1.979 NG	0.05
62	202	1944	24:18	48	1.158	A VB	163424.	49.120 NG	1.354
63	NOT FOUND								
64	149	1784	22:18	48	1.063	A VB	237891. <i>sub</i>	34.919 NG	0.964 <i>63</i>
65	266	1654	20:40	48	0.985	A VB	11355.	31.251 NG	0.864
66	240	2197	27:28	66	1.000	A BB	87418.	40.000 NG	1.10
67	228	2191	27:23	66	0.997	A*BV	2308.	0.882 NG	0.02
68	228	2204	27:33	66	1.003	A VB	125724.	71.656 NG	1.974
69	252	2184	27:18	66	0.994	A BB	159735.	404.070 NG	11.094
70	149	2058	25:43	66	0.937	A BB	3603.	2.078 NG	0.06
71	149	2191	27:23	66	0.997	A BV	154712.	49.920 NG	1.374
72	149	2380	29:45	66	1.083	A BB	239253.	52.038 NG	1.434
73	184	1938	24:13	66	0.882	A VB	2467.	<del>32 520.829</del> NG	14.304
74	252	2706	33:49	66	1.232	A BV	1353.	<del>20.188</del> NG	0.55
75	NOT FOUND								
76	NOT FOUND								
77	276	3607	45:05	66	1.642	A*VB	41091.	43.486 NG	1.194
78	252	2558	31:58	66	1.164	A VV	2634.	1.351 NG	0.04
79	252	2565	32:04	66	1.168	A*VV	2685.	1.292 NG	0.04

NO	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
1	10:13	1.00	1.000	1.00	20.00	20.00	1.000	1.000	1.00
2	5:59	1.00	0.586	1.00	43.07	50.00	0.593	0.689	0.86
3	10:13	1.00	1.000	1.00	30.30	50.00	0.563	0.929	0.61
4	10:18		1.009			50.00		0.856	
5	10:24	1.00	1.018	1.00	54.04	50.00	0.926	0.856	1.08
6	10:31	1.00	1.031	1.00	34.09	50.00	0.559	0.819	0.68
7	10:49		1.059			50.00		1.017	
8	10:55	1.00	1.069	1.00	52.85	50.00	0.994	0.941	1.06
9	11:19		1.108			50.00		1.076	
10	11:12	1.00	1.097	1.00	15.08	50.00	0.133	0.440	0.30
11	11:30	1.00	1.126	1.00	59.95	50.00	0.339	0.283	1.20
12	11:25		1.119			50.00		0.740	
13	11:57		1.170			50.00		0.489	
14	11:43	1.00	1.148	1.00	0.33	50.00	0.005	0.740	0.01
15	8:27	1.00	0.827	1.00	68.01	50.00	1.366	1.004	1.36
16	10:06	1.00	0.989	1.00	82.61	50.00	0.737	0.446	1.65
17	12:07	1.00	1.186	1.00	133.73	50.00	2.318	0.867	2.67
18	12:19	1.00	1.207	1.00	545.72	50.00	1.525	0.140	10.91
19	9:58	1.00	0.976	1.00	137.51	50.00	2.759	1.003	2.75
20	16:03	1.00	1.572	1.00	308.93	50.00	4.113	0.666	6.18
21	13:37	1.00	1.000	1.00	20.00	20.00	1.000	1.000	1.00
22	11:49	1.00	0.867	1.00	146.90	50.00	0.364	0.124	2.94
23	12:09		0.892			50.00		0.208	
24	12:38	1.00	0.928	1.00	0.62	50.00	0.011	0.855	0.01
25	12:50		0.942			50.00		0.190	
26	12:52	1.00	0.944	1.00	30.94	50.00	0.213	0.345	0.62
27	13:05		0.961			50.00		0.401	
28	13:20	1.00	0.979	1.00	32.70	50.00	0.197	0.302	0.65
29	13:31	1.00	0.993	1.00	47.57	50.00	0.332	0.349	0.95
30	13:49	1.00	1.015	1.00	0.50	250.00	0.000	0.121	0.00
31	13:16		0.974			250.00		0.176	

AR101675

ORIGINAL  
(red)

C-108

NO.	RET(L)	RATIO	RRT(L)	RATIO	AMNT	AMNT(L)	R. FAC	R. FAC(L)	RATIO
32	14:02		1.030			50.00		0.200	
33	14:51	1.00	1.070	1.00	34.70	50.00	0.255	0.360	0.67
34	15:12	1.00	1.116	1.00	1.15	50.00	0.007	0.320	0.02
35	15:41	1.00	1.151	1.00	22.13	50.00	0.027	0.061	0.44
36	15:53		1.166			50.00		0.161	
37	16:18		1.176			50.00		0.636	
38	17:16	1.00	1.260	1.00	0.25	50.00	0.004	0.075	0.01
39	17:02	1.00	1.250	1.00	1.20	50.00	0.018	0.771	0.02
40	13:40	1.00	1.004	1.00	0.63	50.00	0.013	1.066	0.01
41	17:13	1.00	1.264	1.00	50.48	50.00	0.170	0.176	1.01
42	18:07	1.00	1.329	1.00	51.00	50.00	0.275	0.265	1.04
43	17:37		1.293			250.00		0.044	
44	16:30		1.221			250.00		0.226	
45	18:02		1.324			50.00		0.055	
46	19:05		1.401			250.00		0.020	
47	15:50		1.172			250.00		0.203	
48	20:50	1.00	1.000	1.00	20.00	20.00	1.000	1.000	1.00
49	17:41	1.00	0.843	1.00	36.94	50.00	0.627	0.840	0.74
50	17:40	1.00	0.849	1.00	125.05	250.00	0.029	0.050	0.50
51	18:02	1.00	0.860	1.00	15.61	125.00	0.031	0.245	0.12
52	16:47		0.677			50.00		0.763	
53	18:40	1.00	0.876	1.00	41.64	50.00	0.309	0.371	0.03
54	18:37	1.00	0.800	1.00	2.09	50.00	0.042	1.005	0.04
55	19:02		0.900			250.00		0.070	
56	19:05		0.910			50.00		0.437	
57	19:54		0.949			50.00		0.210	
58	20:16	1.00	0.966	1.00	47.64	50.00	0.255	0.267	0.90
59	21:01	1.00	1.002	1.00	0.79	50.00	0.010	1.126	0.02
60	21:07	1.00	1.007	1.00	0.12	50.00	0.002	0.927	0.00
61	23:45	1.00	1.132	1.00	1.90	50.00	0.042	1.056	0.04
62	24:16	1.00	1.157	1.00	47.12	50.00	1.147	1.167	0.90
63	19:10		0.914			50.00		0.850	
64	22:17	1.00	1.063	1.00	34.92	50.00	1.669	2.390	0.70
65	20:41	1.00	0.906	1.00	31.25	50.00	0.000	0.127	0.63
66	27:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
67	27:22	1.00	0.990	1.00	0.00	50.00	0.021	1.190	0.02
68	27:31	1.00	1.003	1.00	71.66	50.00	1.151	0.803	1.43
69	27:19	1.00	0.976	1.00	404.07	50.00	1.462	0.181	0.00
70	25:43	1.00	0.937	1.00	2.00	50.00	0.033	0.793	0.04
71	27:22	1.00	0.977	1.00	47.92	50.00	1.416	1.410	1.00
72	29:43	1.00	1.000	1.00	52.04	50.00	2.190	2.104	1.04
73	24:13	1.00	0.800	1.00	520.03	150.00	0.000	0.002	3.47
74	33:45	1.00	1.230	1.00	20.19	50.00	0.012	0.031	0.40
75	42:26		1.547			50.00		0.461	
76	42:30		1.554			50.00		0.397	
77	44:50	1.00	1.639	1.00	43.49	50.00	0.376	0.432	0.07
78	31:55	1.00	1.163	1.00	1.35	50.00	0.024	0.092	0.03
79	32:02	1.00	1.160	1.00	1.29	50.00	0.025	0.951	0.03

ORIGINAL

(red)

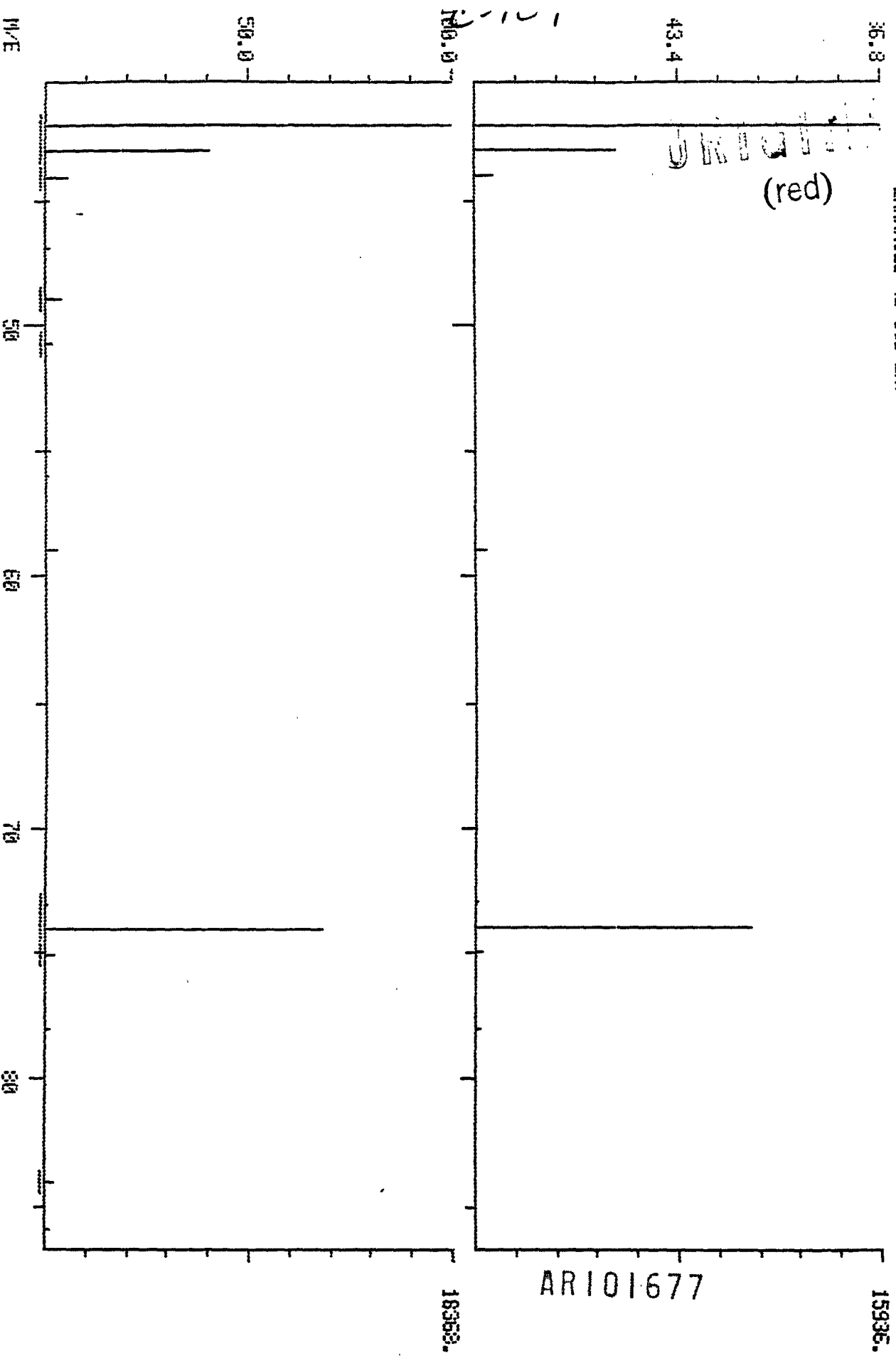
ARI01676

441

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 5:59  
SAMPLE: 1UL FSCC SAMPLE #25620(10BULACD&100JLBN&SUL#7136-026)  
ENHANCED (5 158 2N)

MEAD COMPUCHEM

DATA: CH025620A14 #479  
BASE M/E: 42/ 42  
RIC: 34047.7 42943.



ORIGINAL

(101)

DUAL MASS SPECTRUM  
01/26/93 15:01:00 + 10:13  
SAMPLE: IUL F50C SAMPLE #256208 (100ULACDR,100ULENRSUL #7135-025)  
ENHANCED (S 158 2N)

NEAD CONFUCHEN

DATA: GH025620814 #817

BASE M/E: 94/ 94  
RIC: 43855. ✓ 68351.

616 (1)

C-110

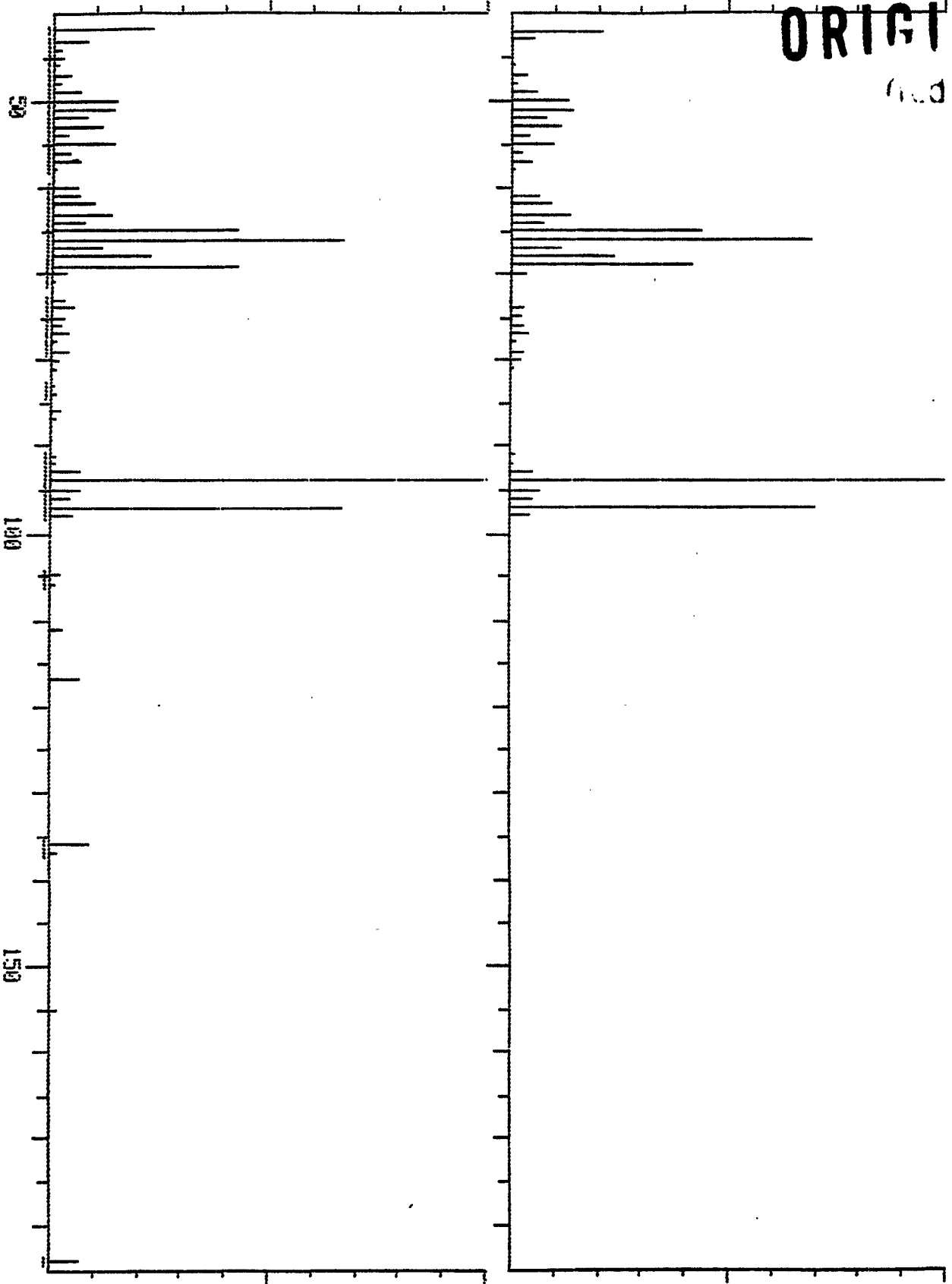
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81.6

100.0

50.0

M/E



11232.

AR101678

9168.

ORIGINAL  
(red)

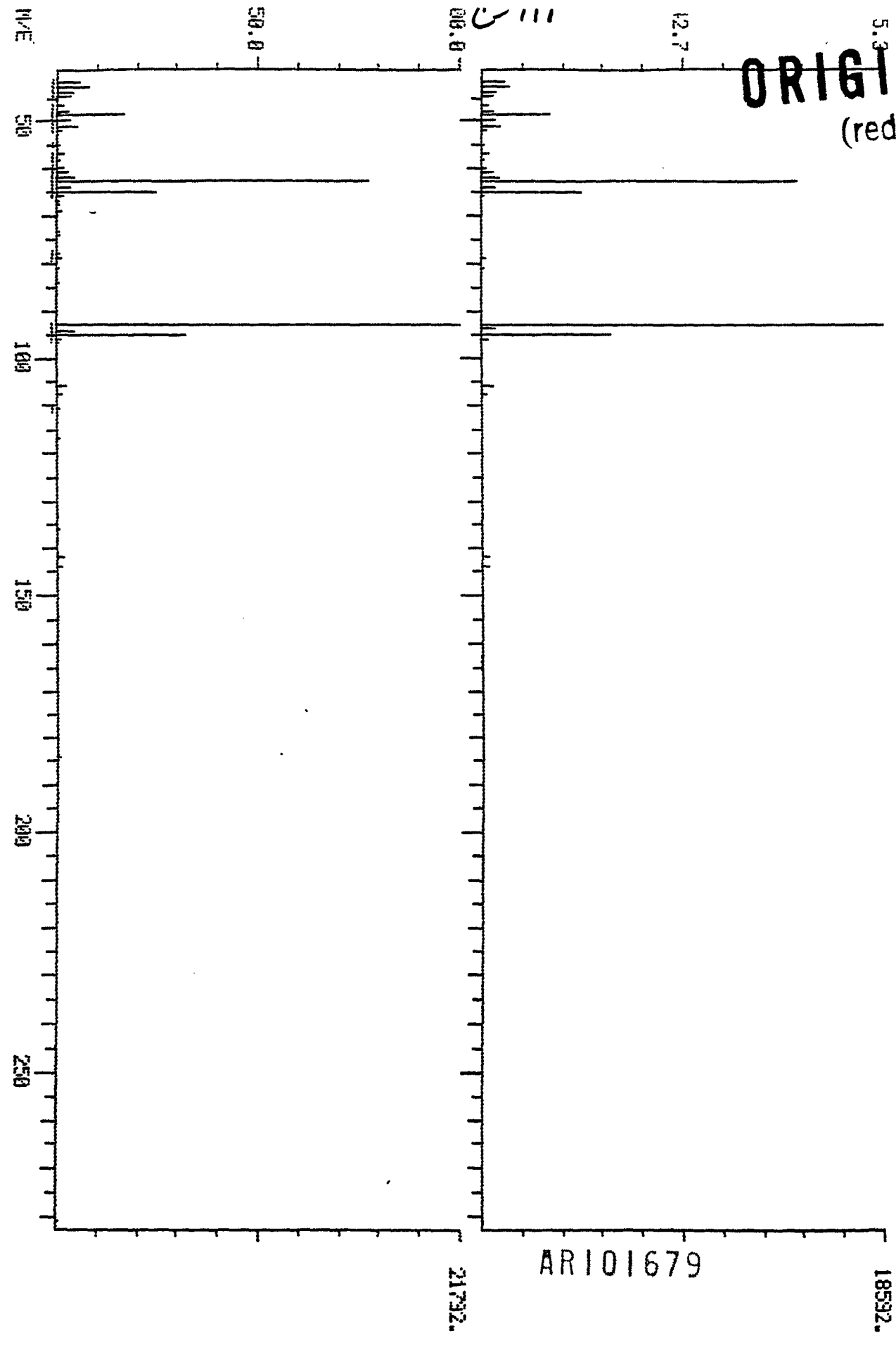
DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 10:23  
SAMPLE: 1UL FCC SAMPLE #25620 (100ULACD&100ULBN&5UL#7135-026)  
ENHANCED (5 158 2N)

MEAD COMPUTHEN

DATA: GH025620A14 #831

BASE M/E: 93/ 93  
RIC: 58367.7 70527.

411



ORIGINAL

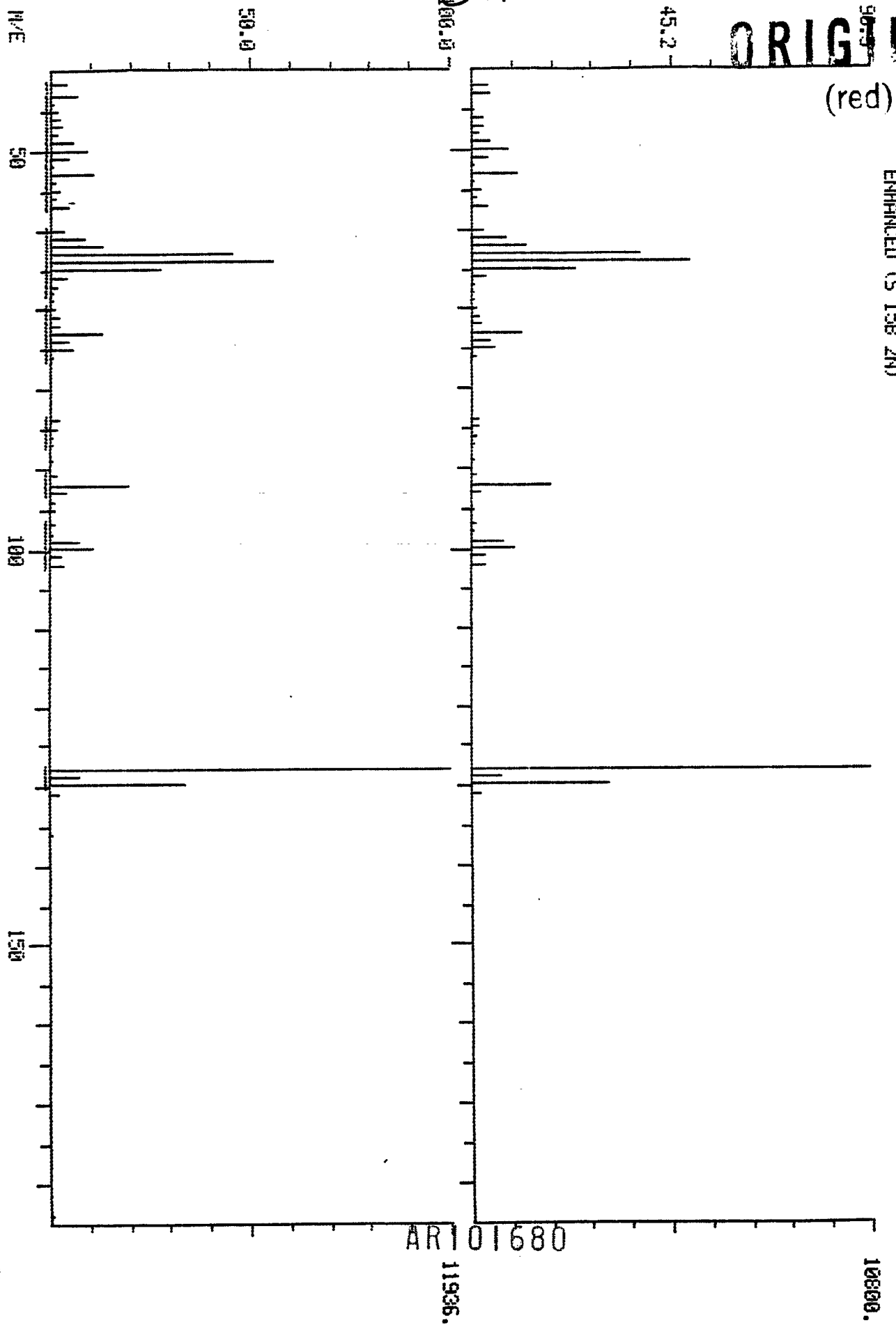
(red)

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 10:31  
SAMPLE: 10L F500 SAMPLE #25620 (100ULACDR, 100ULBR, 5UL #7136-026)  
ENHANCED (5 158 2N)

HEAD COMPILER

DATA: GH025620A14 #842  
BASE M/E: 128/ 128  
RIC: 46847.7 54143.

601



AR101680

ORIGINAL

(red)

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 10:55  
SAMPLE: IUL F500 SAMPLE #25520(100ULPC08,100ULBN&SUL#7135-025)  
ENHANCED (5 158 2N)

MEAD COMPUTER

DATA: GH025520014 #873

BASE M/E: 146/ 146  
RIC: 93823./ 106751.

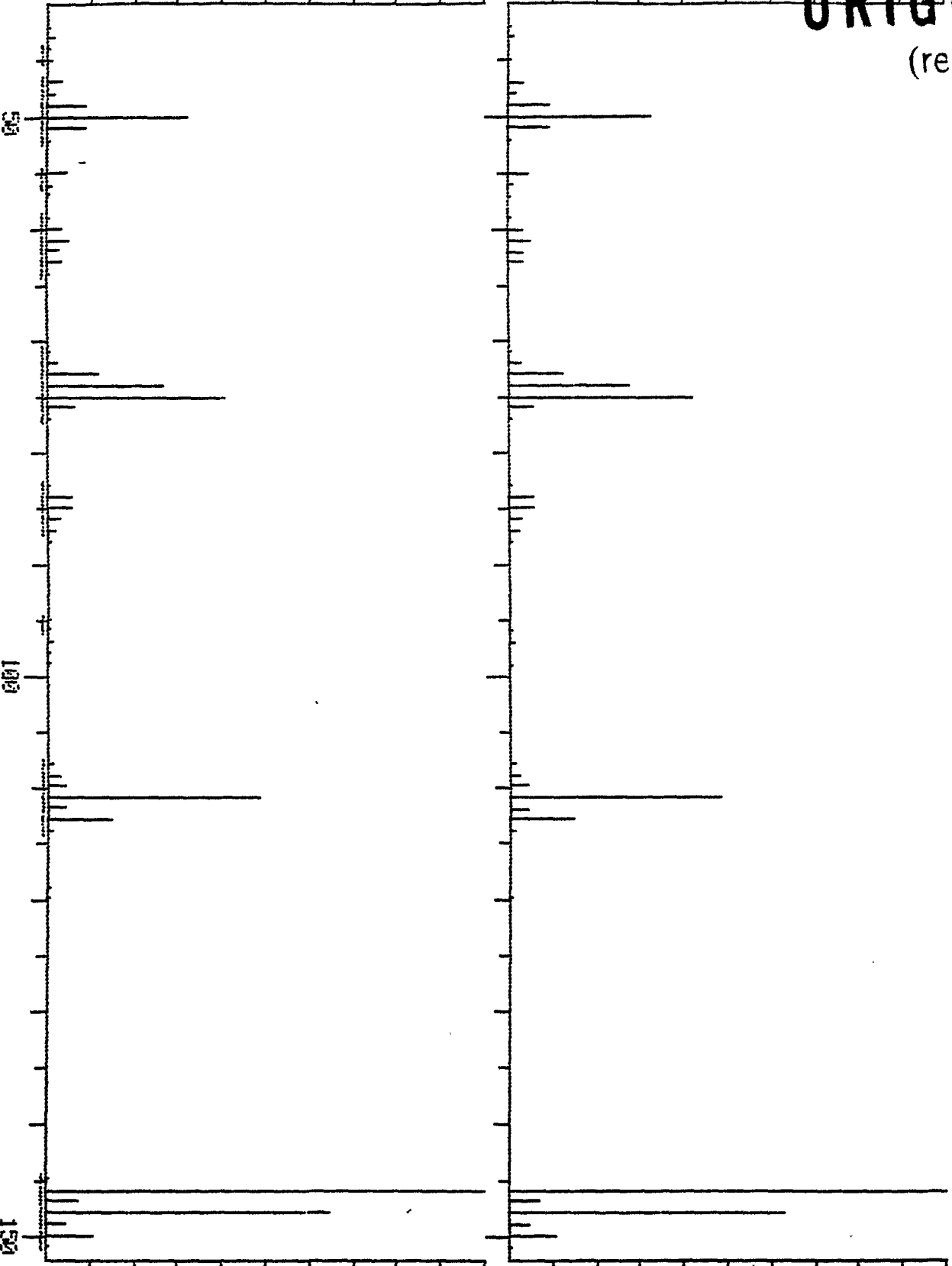
422

13.7

50.0

50.0

M/E



23584.

AR101681

20608.

1500

1000

500



ORIGINAL

(red)

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 11:12  
SAMPLE: 1UL F50C SAMPLE #25620(100ULACD&100ULBN&SUL#7136-026)  
ENHANCED (5 158 2N)

NEED COMPOUNEN

DATA: GH025620A14 #896

BASE M/E: 79 / 79  
R/C: 15215. / 18435.

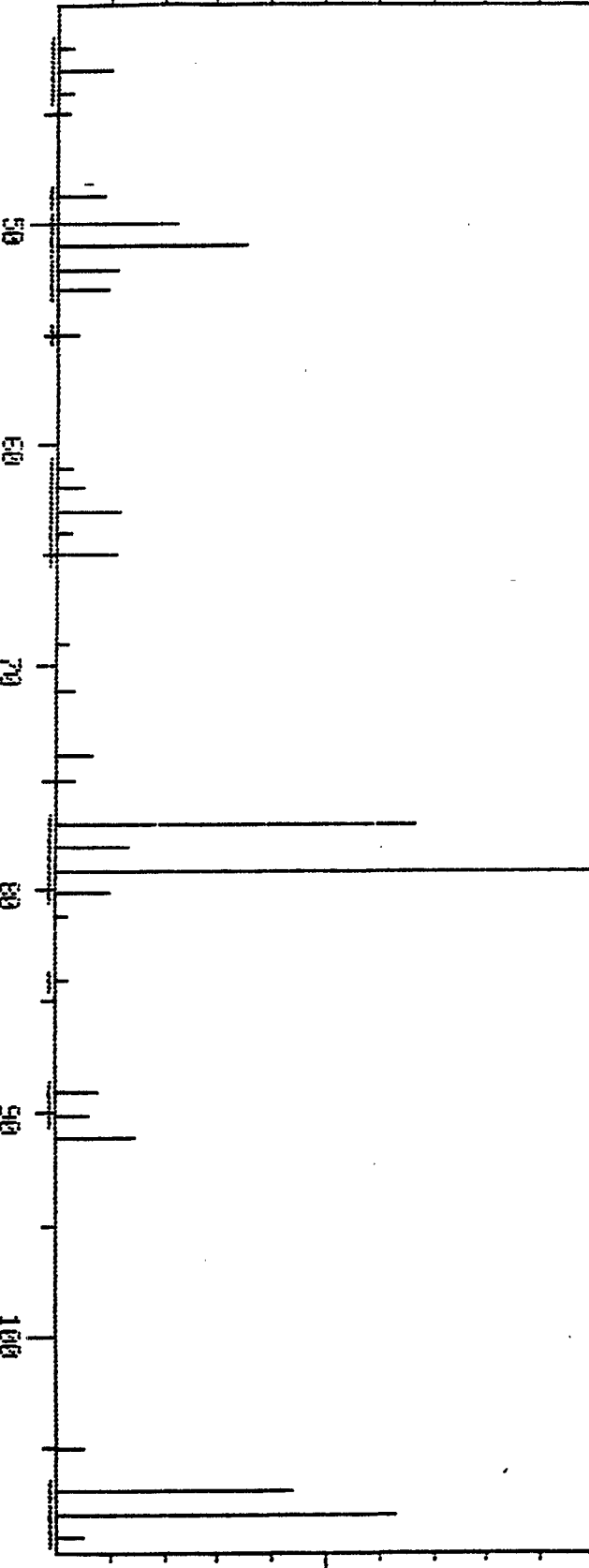
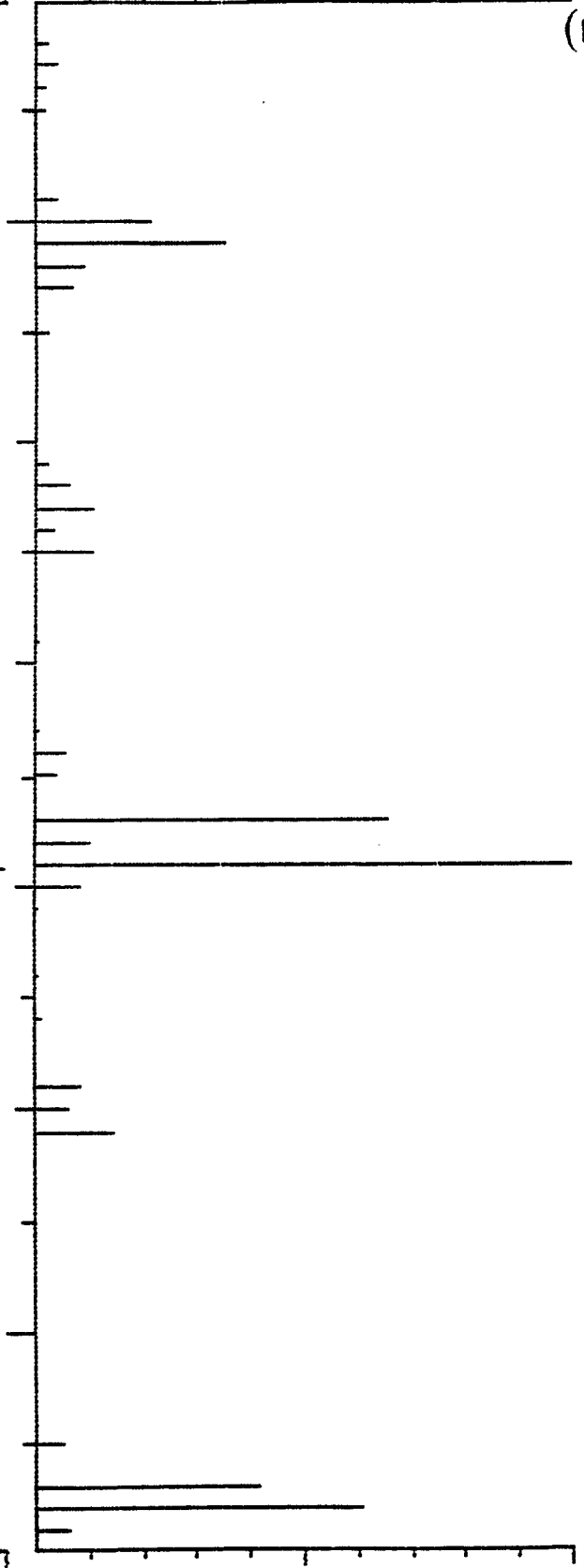
474

44.4

100.0

50.0

M/E



4/12

HEAD COMPONENT

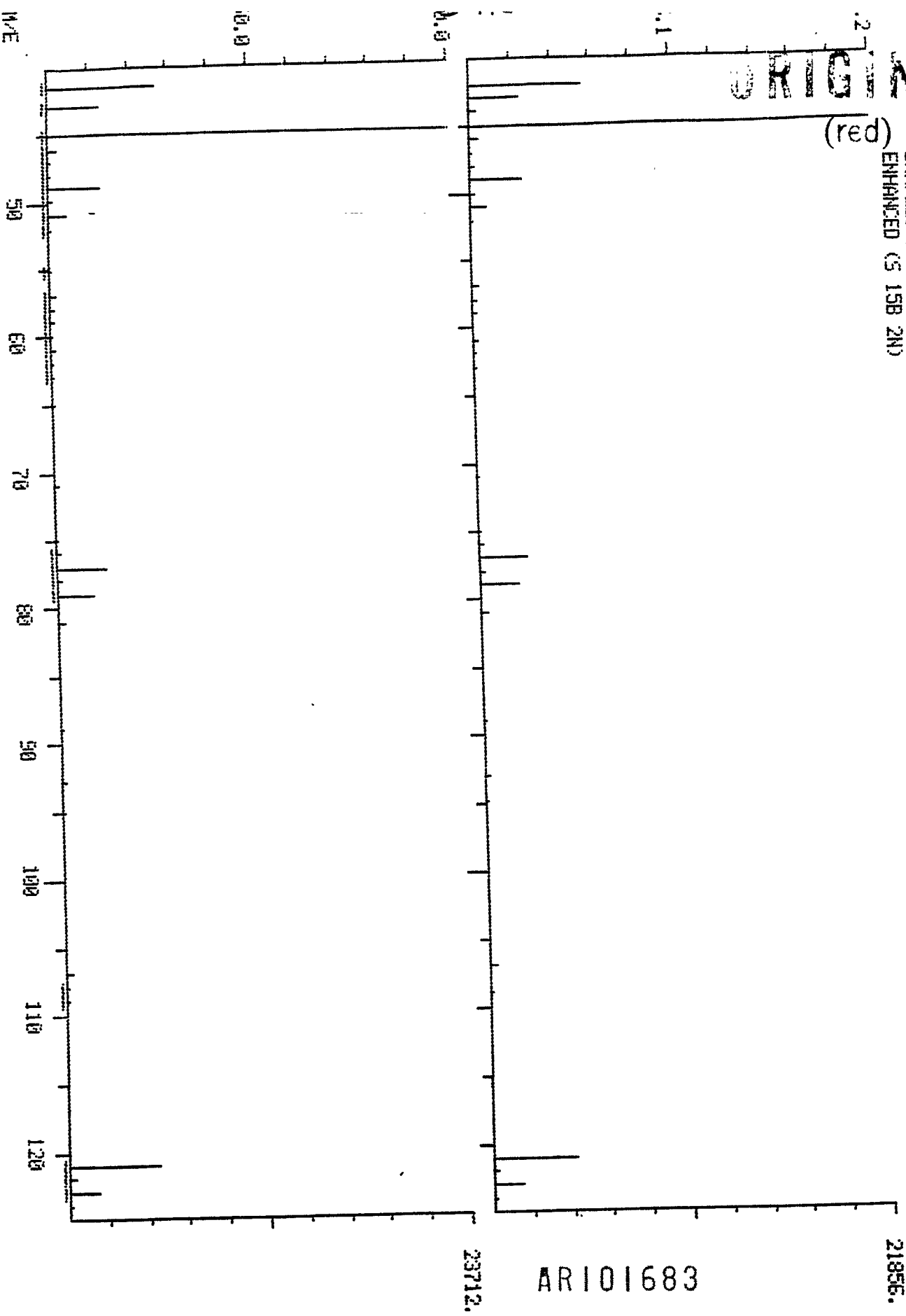
DATA: GH025620A14 #920

BASE M/E: 45/ 45  
R/C: 50495./ 55295.

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 11:30  
SAMPLE: IUL F50C SAMPLE #25620 (100ULACR:100ULBRN:SUL #7136-025)  
ENHANCED (S 15B 2N)

ORIGINAL

(red)



ARI01683

23712.

21856.

120

110

100

90

80

70

60

50

M/E

0.0

1.0

1.1

2

ORIGINAL

(red)

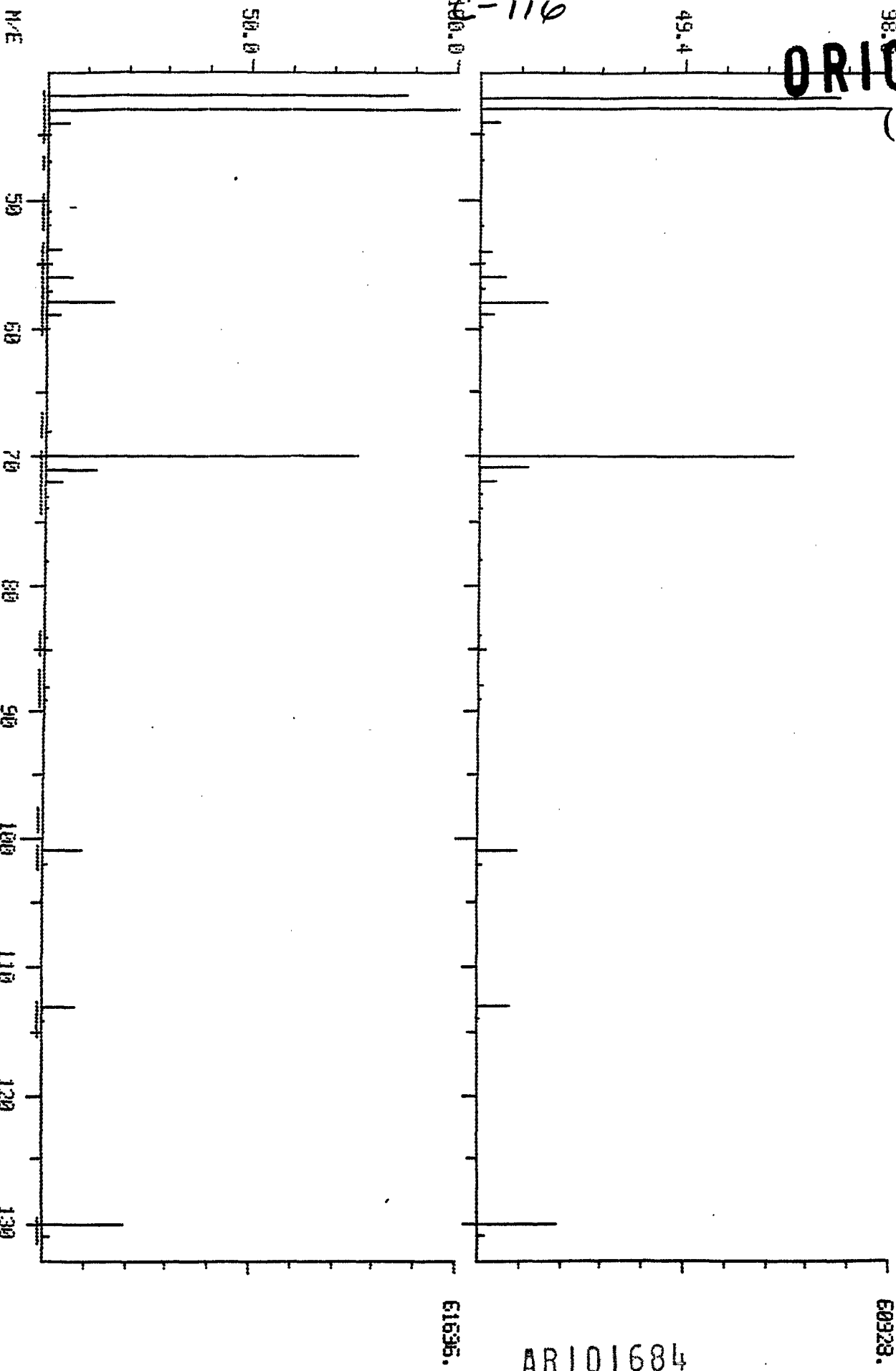
DUAL MASS SPECTRUM  
01/25/83 15:01:00 + 11:49  
SAMPLE: 1UL FSCC SAMPLE #25620(100ULACD&100ULBN&SUL#7136-025)  
ENHANCED (5 158 2N)

HEAD COMPONENT

DATA: CH025620R14 #945

BASE M/E: 43/ 43  
RT: 221695. / 226303.

442



AR101684

603

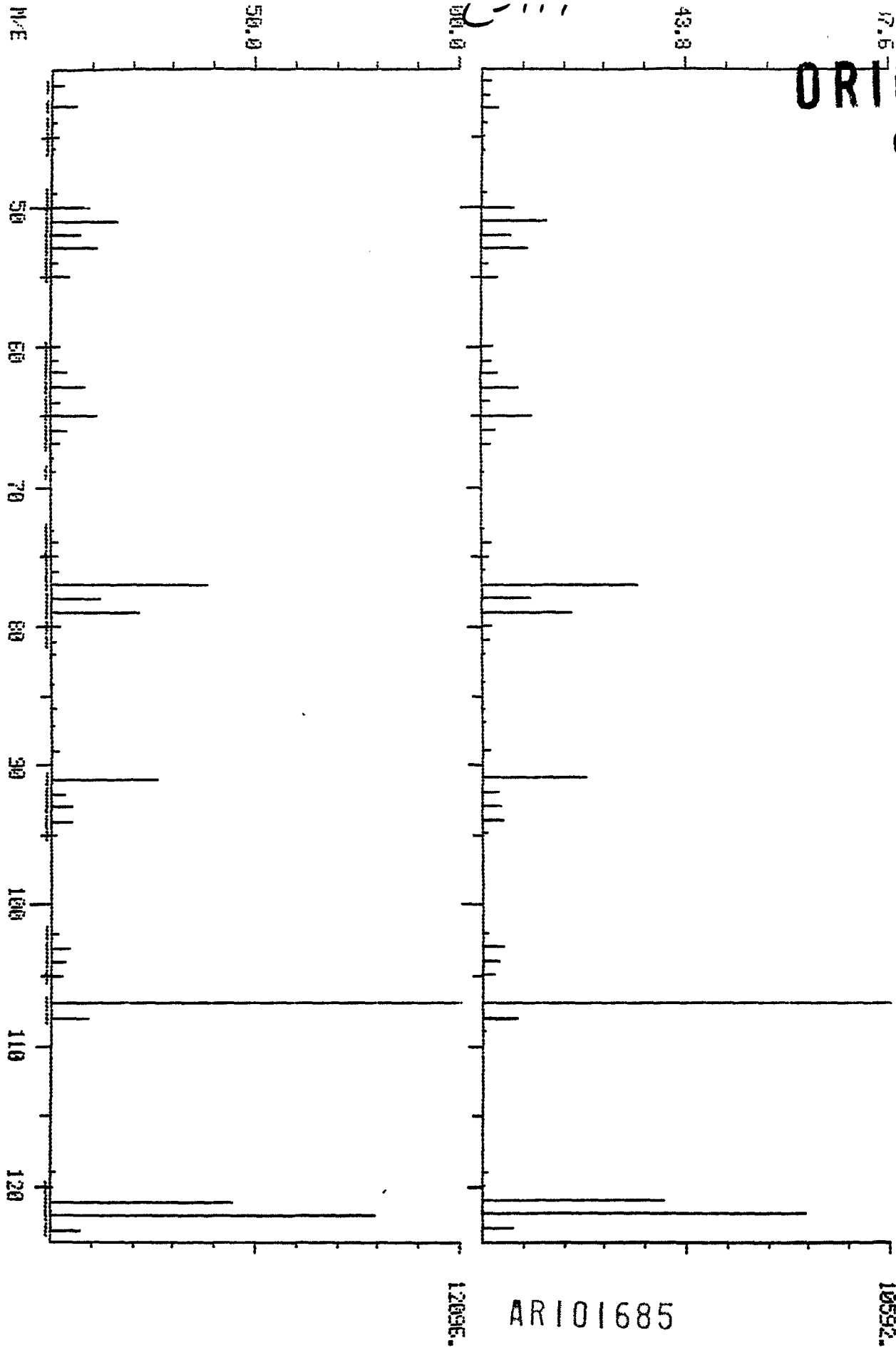
ORIGINAL

(red)

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 12:52  
SAMPLE: JUL FSCC SAMPLE #25620(100ULACID:100ULEN&SUL#7136-026)  
ENHANCED (S 158 2N)

MEMO COMPUTED

DATA: GH025620A14 #1029 BASE M/E: 107/ 107  
RIC: 50431, 57983,



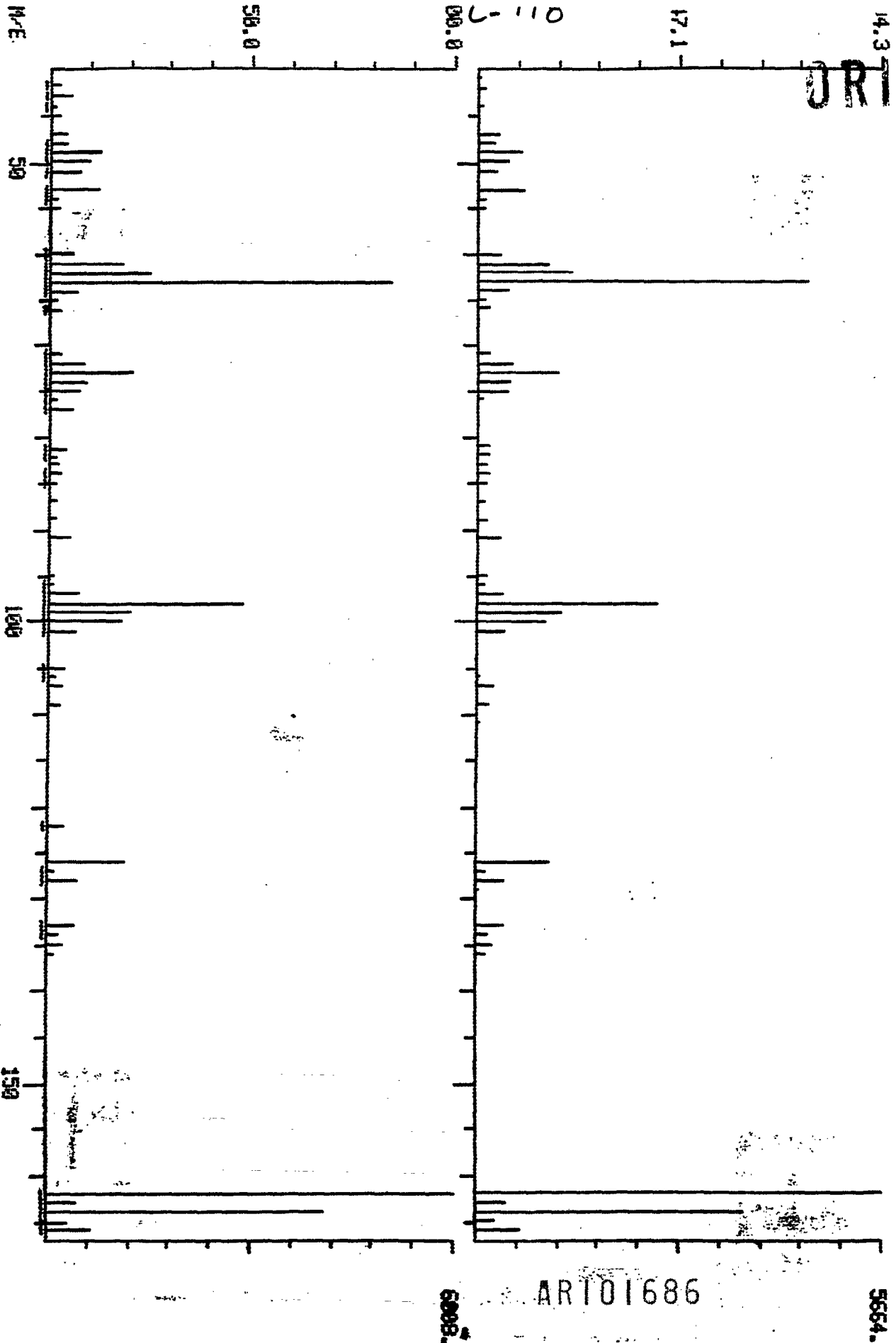
602

ORIGINAL

(red)  
DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 13:20  
SAMPLE: 1UL F5CC SAMPLE #25520 (100ULACD&100ULBN&SUL#7135-025)  
ENHANCED (5 15B 2N)

HEAD COMPUTER

DATA: GH025520A14 #1067 BASE M/E: 162/ 162  
RIC: 33727./ 38271.

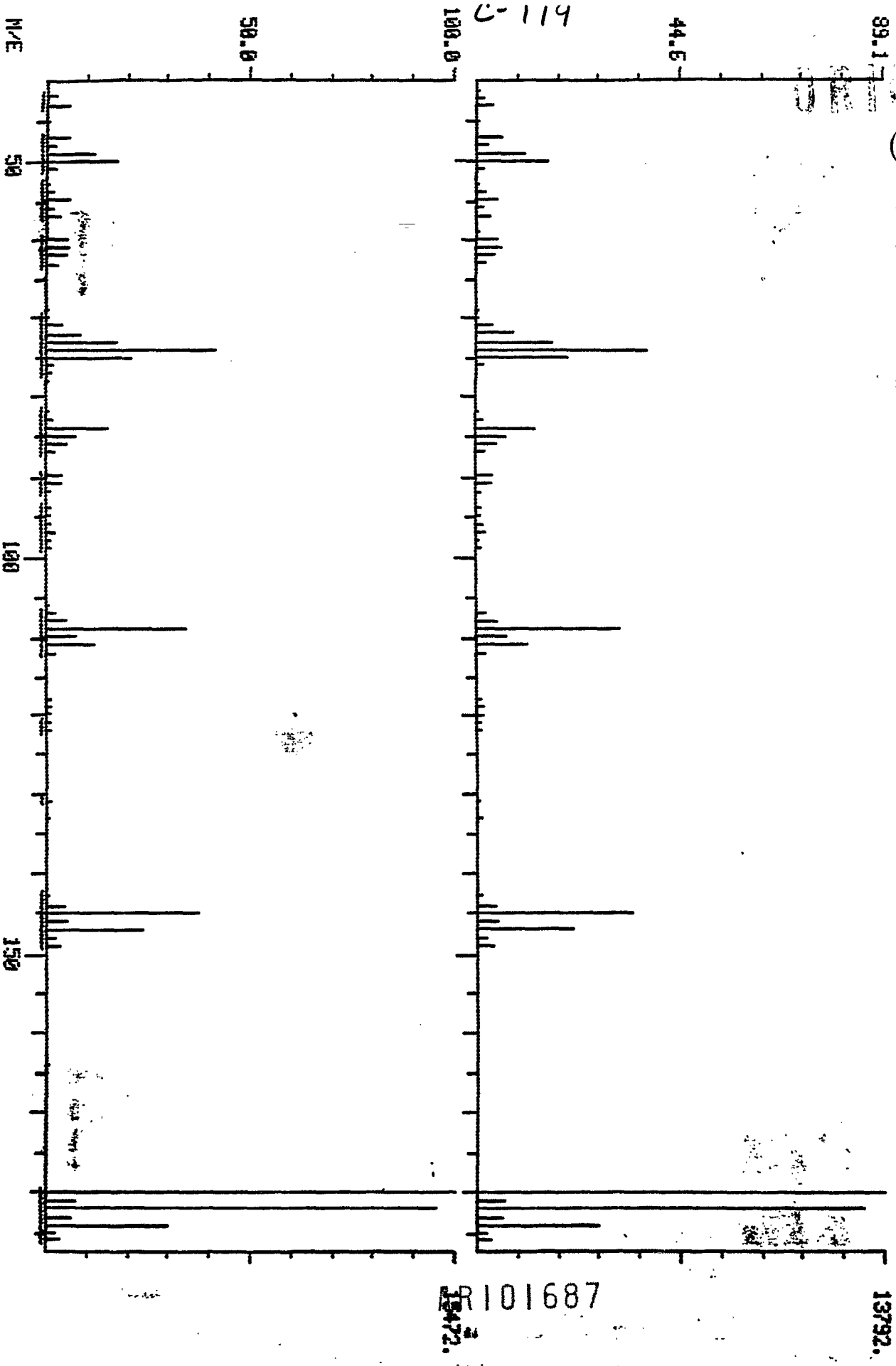


446

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 13:31  
SAMPLE: 1UL FSCC SAMPLE #25620 (100ULACD&100ULBN&SUL#7135-025)  
ENHANCED (S 158 2N)

HEAD COMPUTED  
DATA: GHE25620A14 #1082 BASE M/E: 100/ 180  
RIC: 85375. / 95103.

R101687



HEAD COMPUTER

DATA: GH025520A14 #1189 BASE M/E: 107/ 107

RIC: 38719. / 43519.

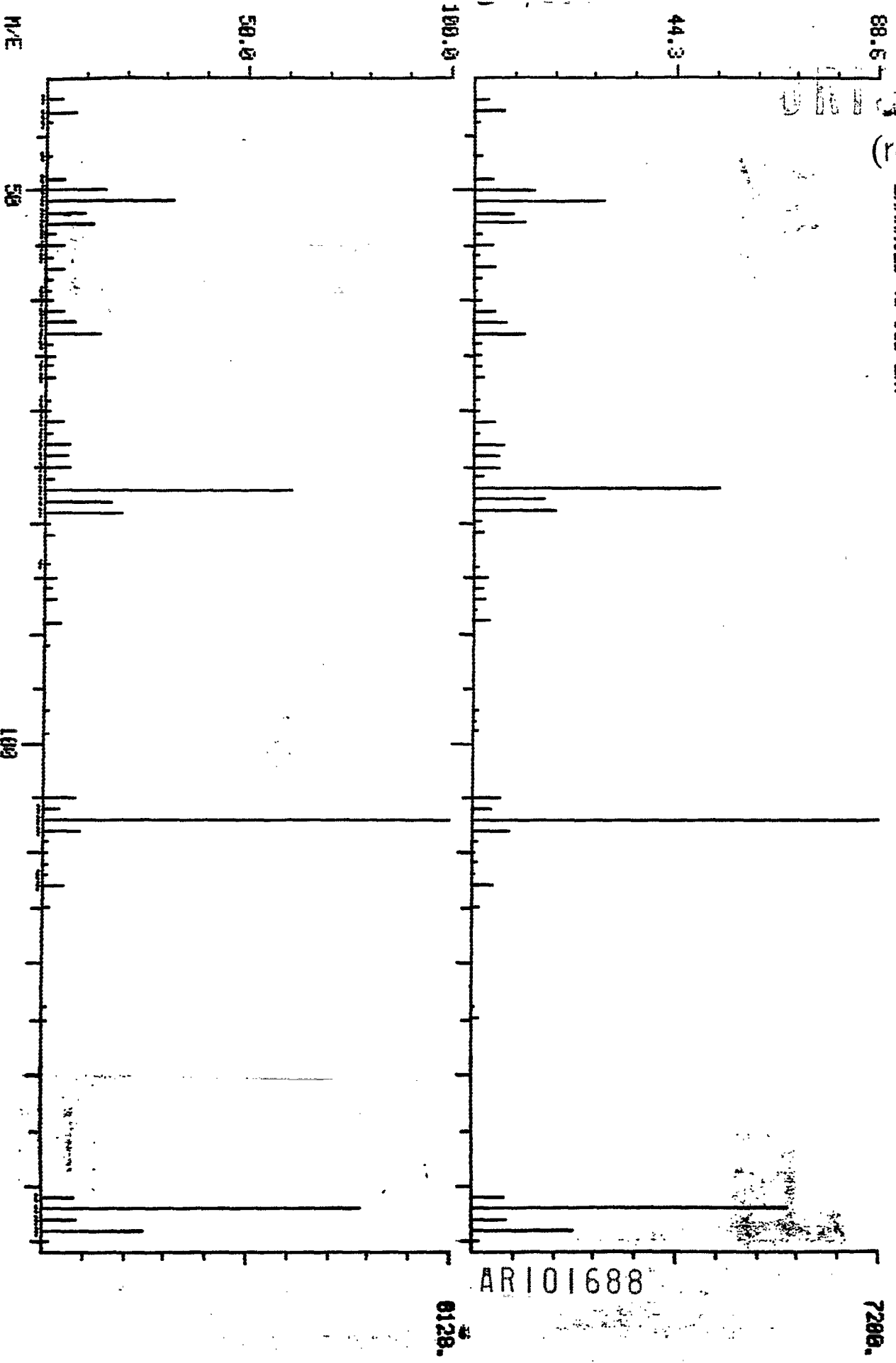
(red)

DUAL MASS SPECTRUM

01/26/83 15:01:00 + 14:52

SAMPLE: 1UL FSCC SAMPLE #25520(100UL HCl&100UL BNR.SUL#7136-026)

ENHANCED (5 158 2N)



608

# ORIGINAL

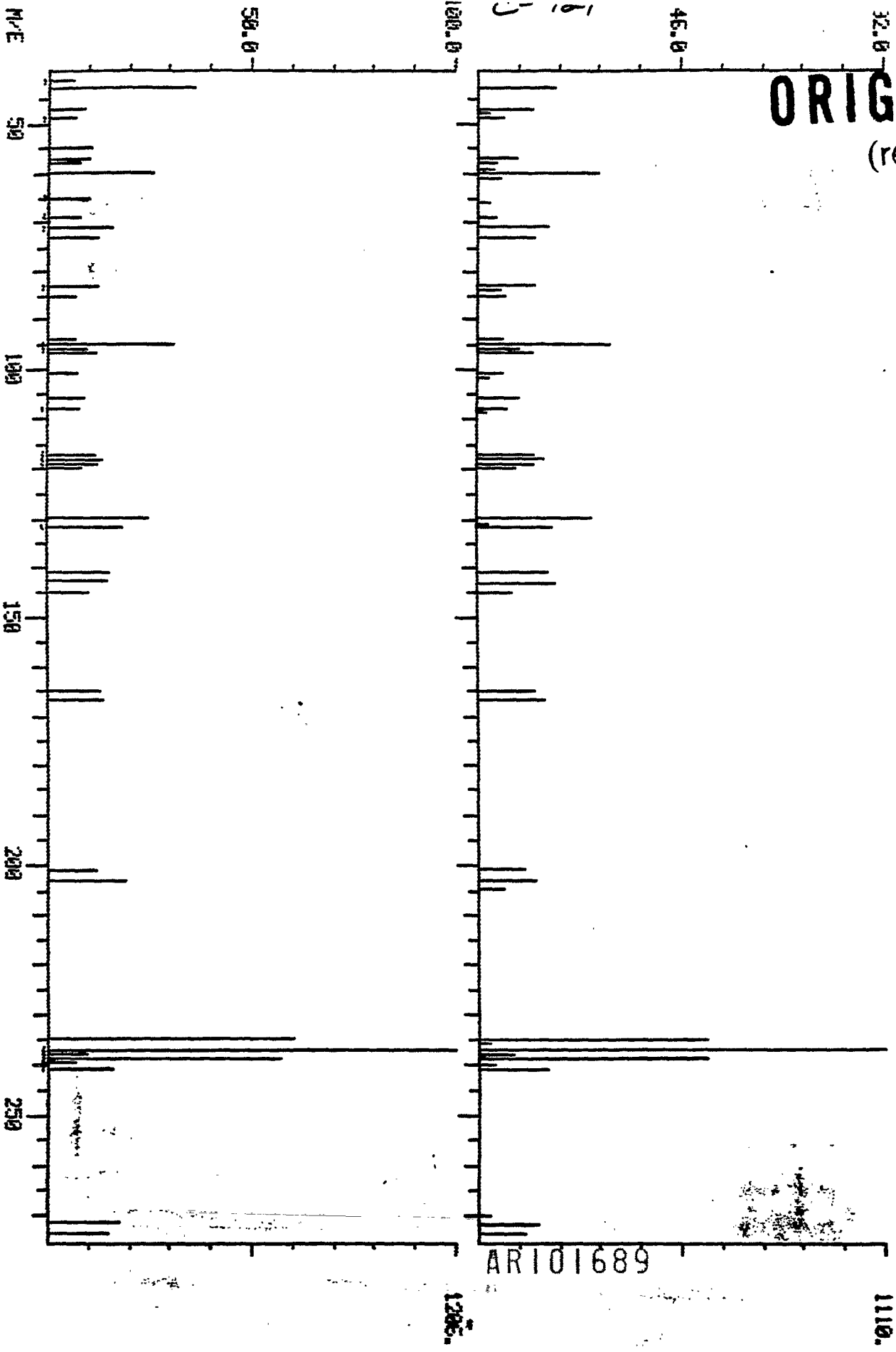
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DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 15:41  
SAMPLE: 1UL FSCC SAMPLE #25520(100UL PDR, 100UL BK#5UL #7136-026)  
ENHANCED (5 150 2N)

HEAD COMPUTER

DATA: Q1025520A14 #1255 BASE M/E: 237 / 237  
R/C: 8159. / 8799.

435





ORIGINAL

(red)

DUAL MASS SPECTRUM  
01/25/83 15:01:00 + 17:14  
SAMPLE: IUL F5CC SAMPLE #25620(100ULACD&100ULBN&5UL#7136-026)  
ENHANCED (5 158 2N)

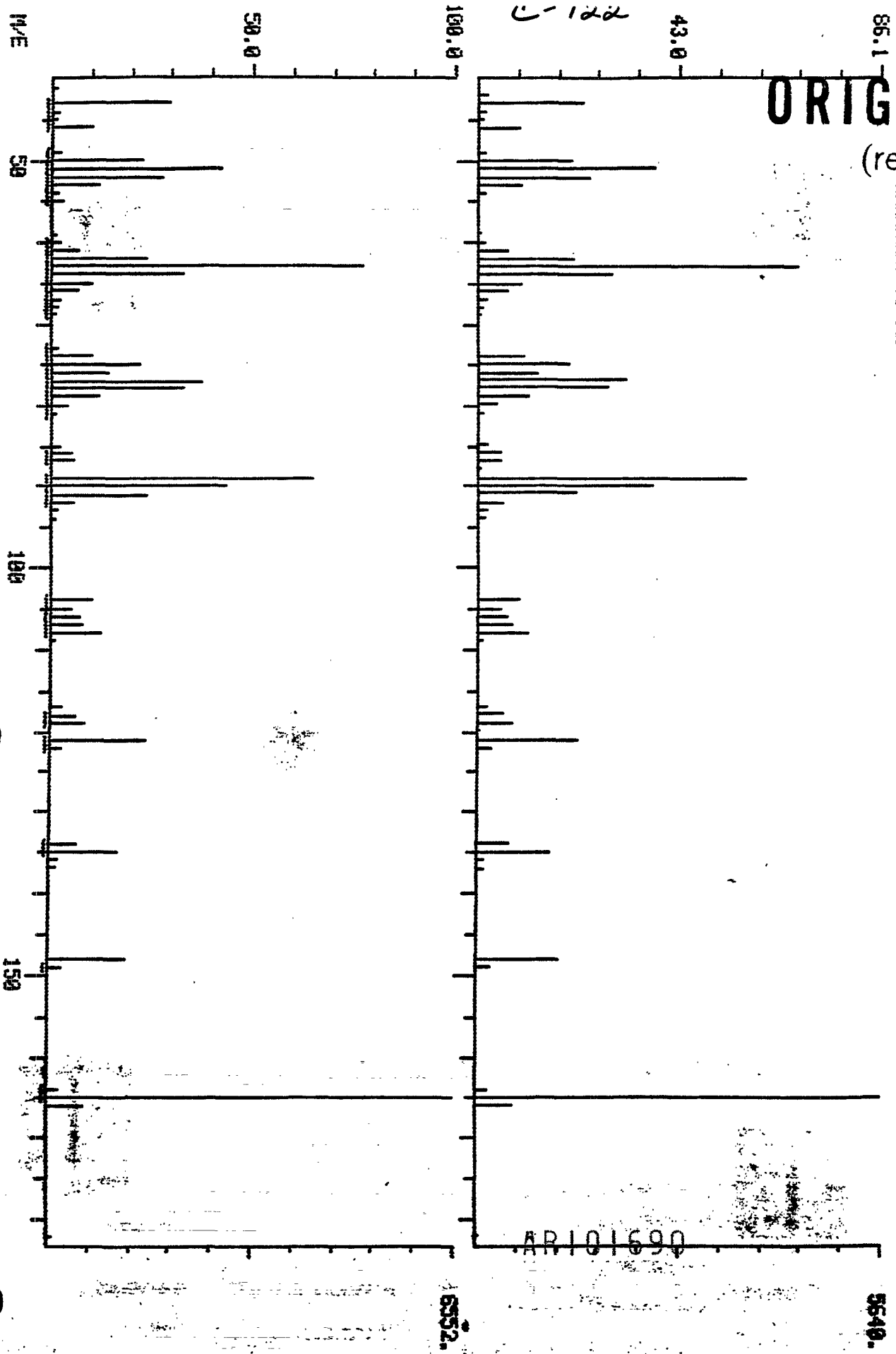
HEAD COMPONENT

DATA: CH025620A14 #1379 BASE M/E: 165/ 165

RIC: 48959./ 56255.

428

C-12d



401

MEMO COMPUTER

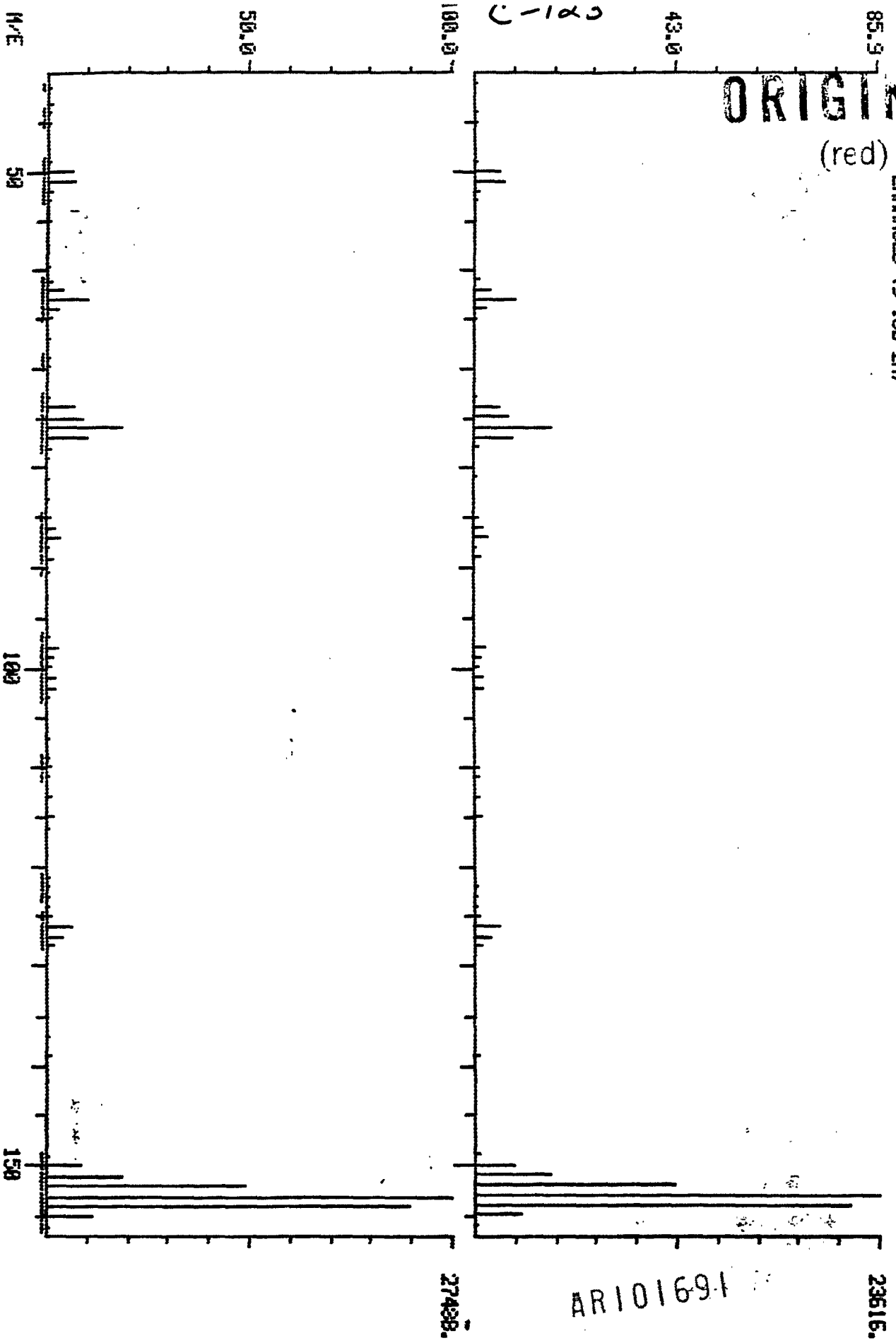
DUAL MASS SPECTRUM  
01/25/83 15:01:00 + 17:42  
SAMPLE: IUL F50C SAMPLE #25620(100ULF006100ULBNLSUL#7135-026)  
ENHANCED (S 158 2N)

DATA: GH025620A14 #1416 BASE M/E: 153/ 153  
RIC: 95743 / 111999.

ORIGINAL

(red)

C-120



ARI01691

MEAD COMPUTER

DATA: GH025620A14 #1424 BASE M/E: 184/ 184

RIC: 20543. / 28757.

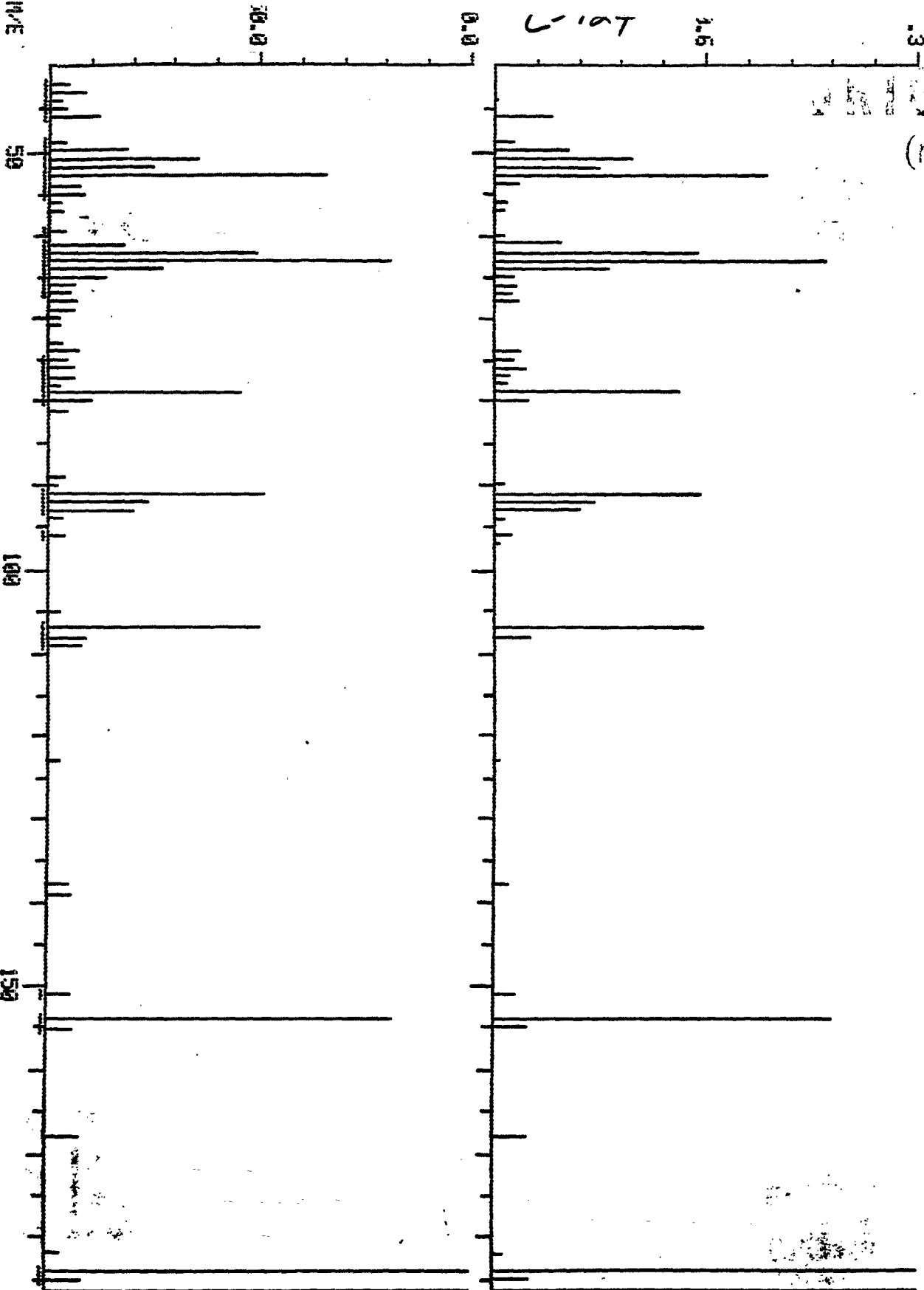
DUAL MASS SPECTRUM  
01/25/83 15:01:00 + 17:43  
SAMPLE: 1UL F30; SAMPLE #25620(100ULACTA,100ULBHSUL,#7136-025)  
ENHANCED (5 15B 2N)

605-

2536.

AR101692

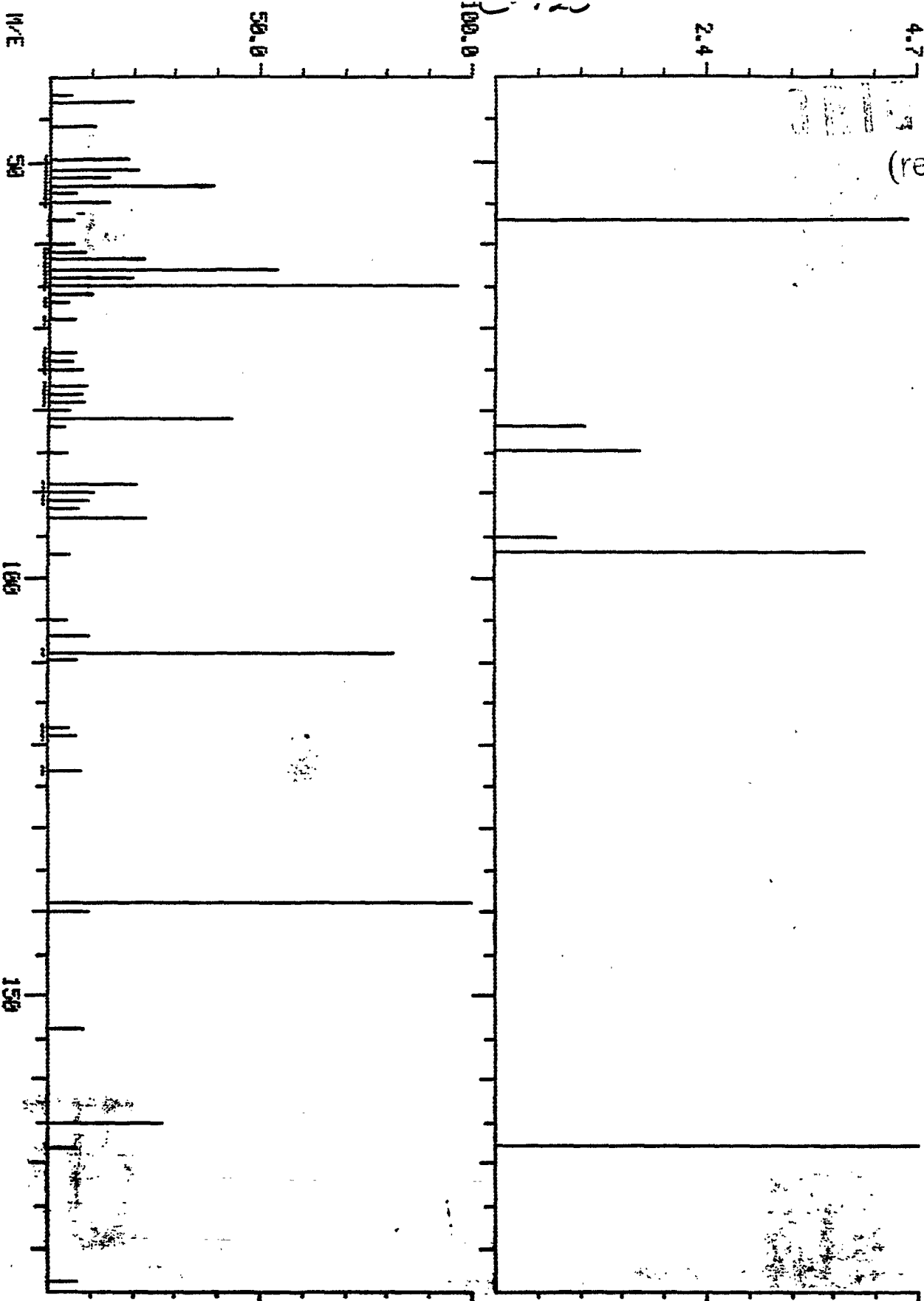
3120.



DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 18:03  
SAMPLE: LUL FSCC SAMPLE #25620 (180UL FCD#100L BK#SUL#7135-026)  
ENHANCED (S 15B 2N)

MEAD CONPUCHEM

DATA: GH025620A14 #1444 BASE M/E: 168/ 139  
RIC: 319.7 15935.



RI 01693

ORIGINAL

(red)

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 18:07  
SAMPLE: IUL FSCC SAMPLE #25620(100ULACD;100ULBN&SUL#7136-026)  
ENHANCED (S 158 2N)

MEAD COMPUTHEN

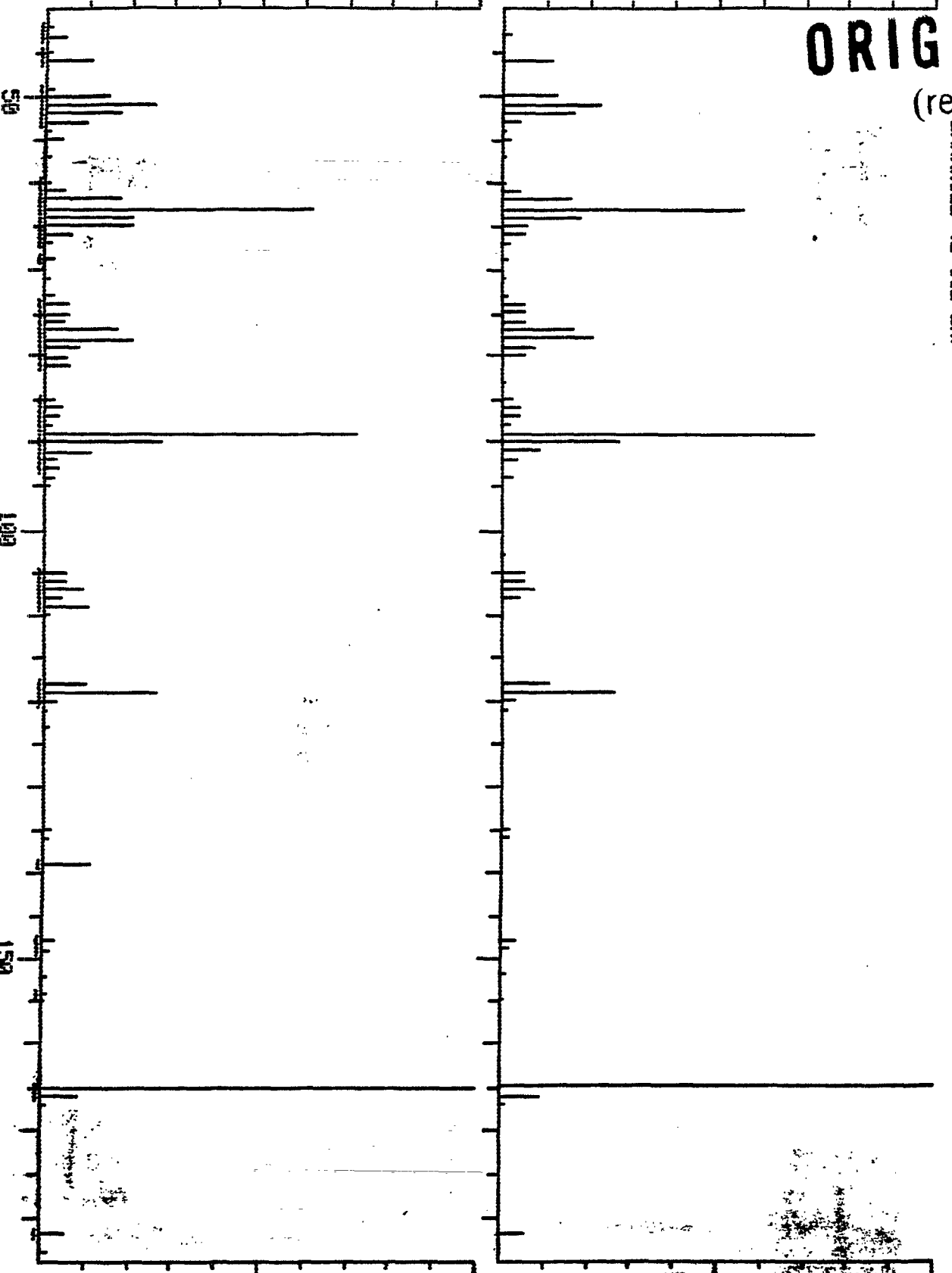
DATA: CH025620014 #1450

BASE M/E: 165/ 165  
RICI 45823./ 69159.

427

C-126

M/E 7.5 13.8 20.0 50.0



AR101694

8192

8192

417

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 19:48  
SAMPLE: JUL FSDC SAMPLE #25620(100ULACD&100ULB&5UL#7136-025)  
ENHANCED (5 158 2N)

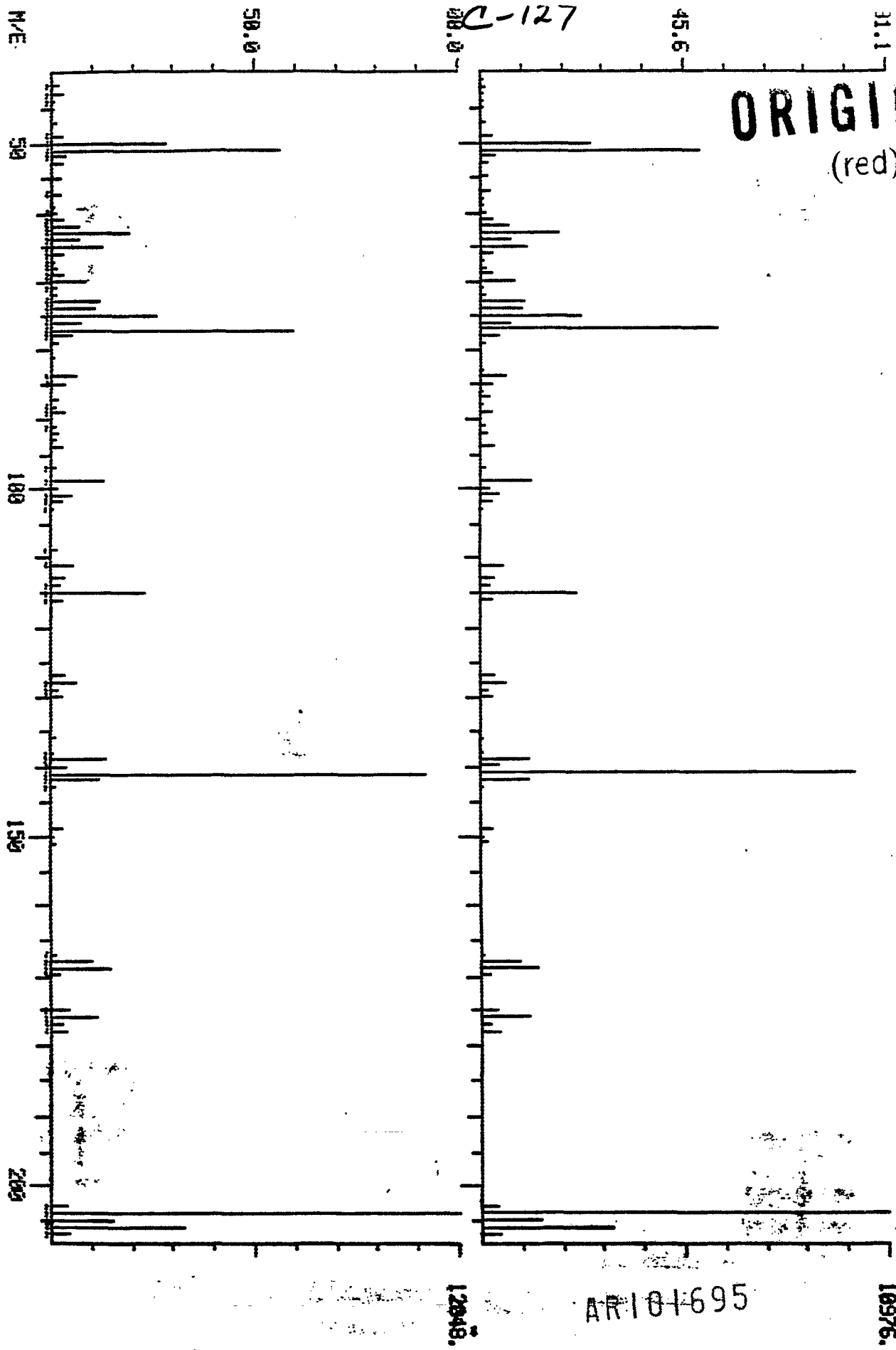
HEAD COMPUCHEM

DATA: GH025620014 #1504

BASE M/E: 204/ 204  
R/C: 78207/ 88447.

ORIGINAL

(red)



12049.

AR 101695

10976.

M/E

58.0

20.0

45.6

31.1

50

100

150

200



ORIGINAL

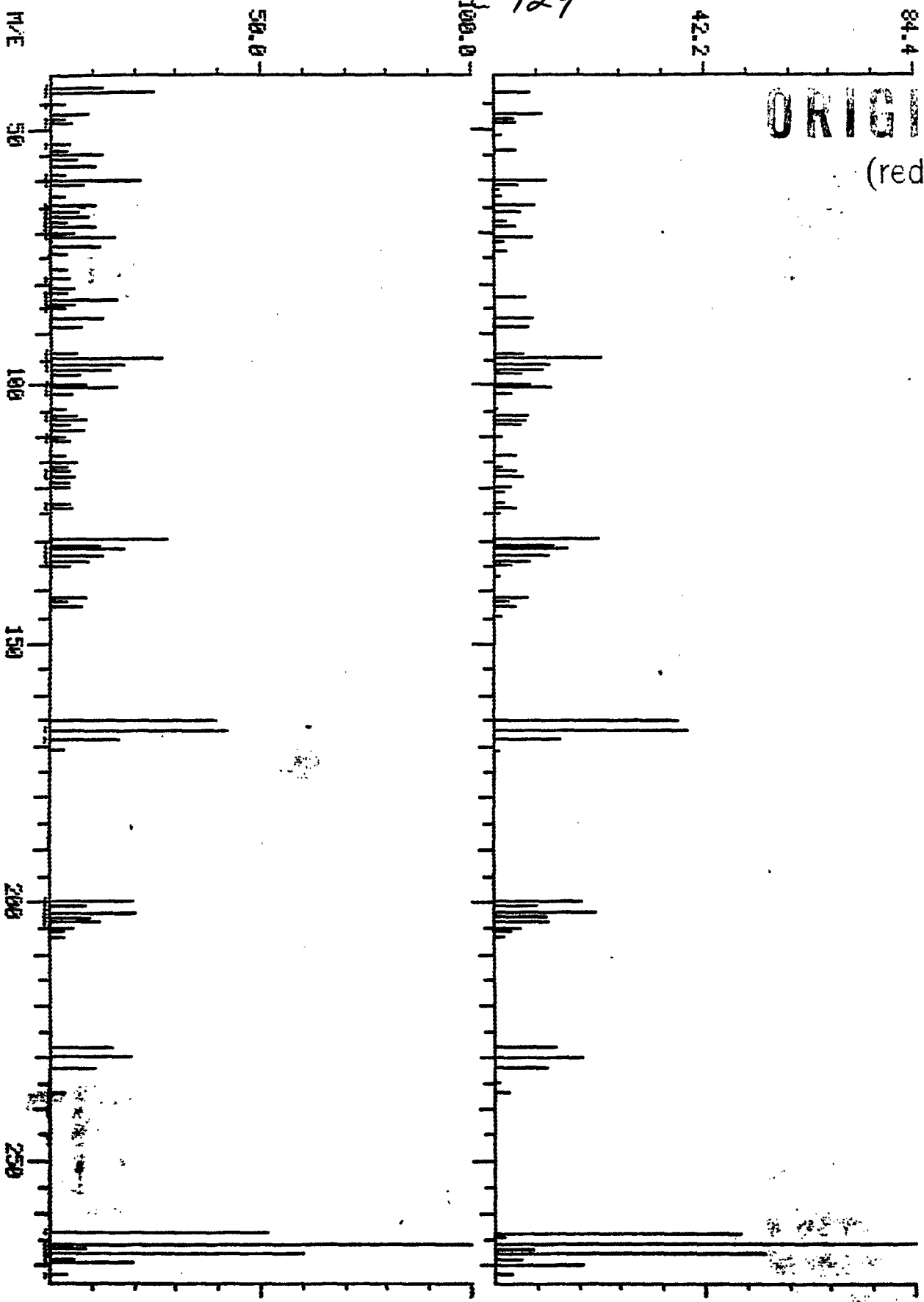
(red)

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 20:40  
SAMPLE: 1UL F50C SAMPLE #25620(100ULACD&100ULBN&SUL#7135-026)  
ENHANCED (5 158 2N)

HEAD COMPUTER

DATA: CH025620014 #1654 BASE M/E: 266/ 266  
R/C: 17855. / 24735.

609



ART01697

2556.

2822.



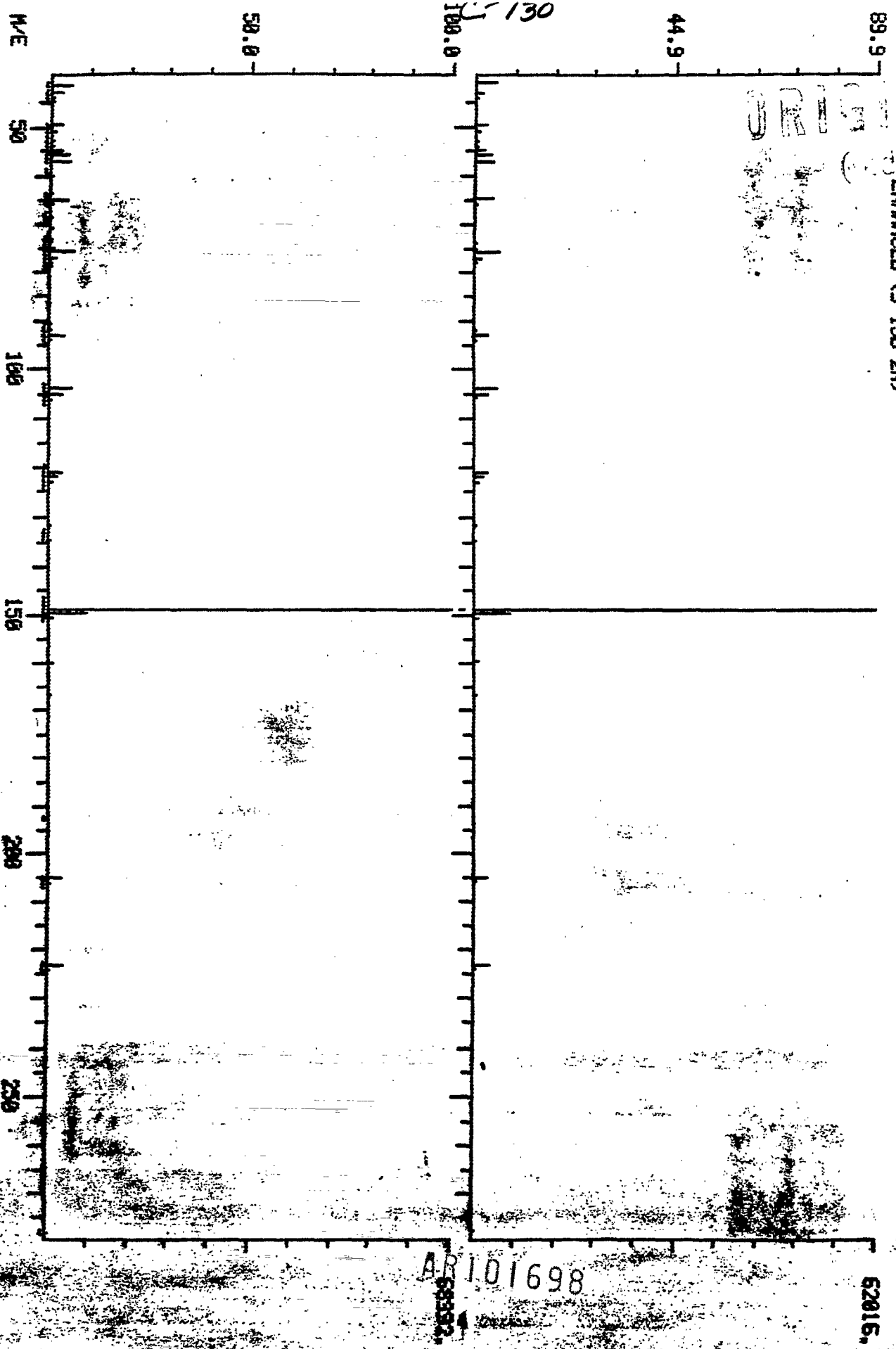
MEAD COMPUTHERM

DATA: GH025628014 #1784 BASE M/E: 149/149

RIC: 113653/ 132863.

DUAL MASS SPECTRUM  
01/25/83 15:01:00 + 22.18  
SAMPLE: IUL FSCC SAMPLE #25620 (100UL.FC08.100UL.BN#SUL #7136-026)  
ENHANCED (S 158 2N)

426



APR 10 1698

58352

52015

**ORIGINAL**

(red)

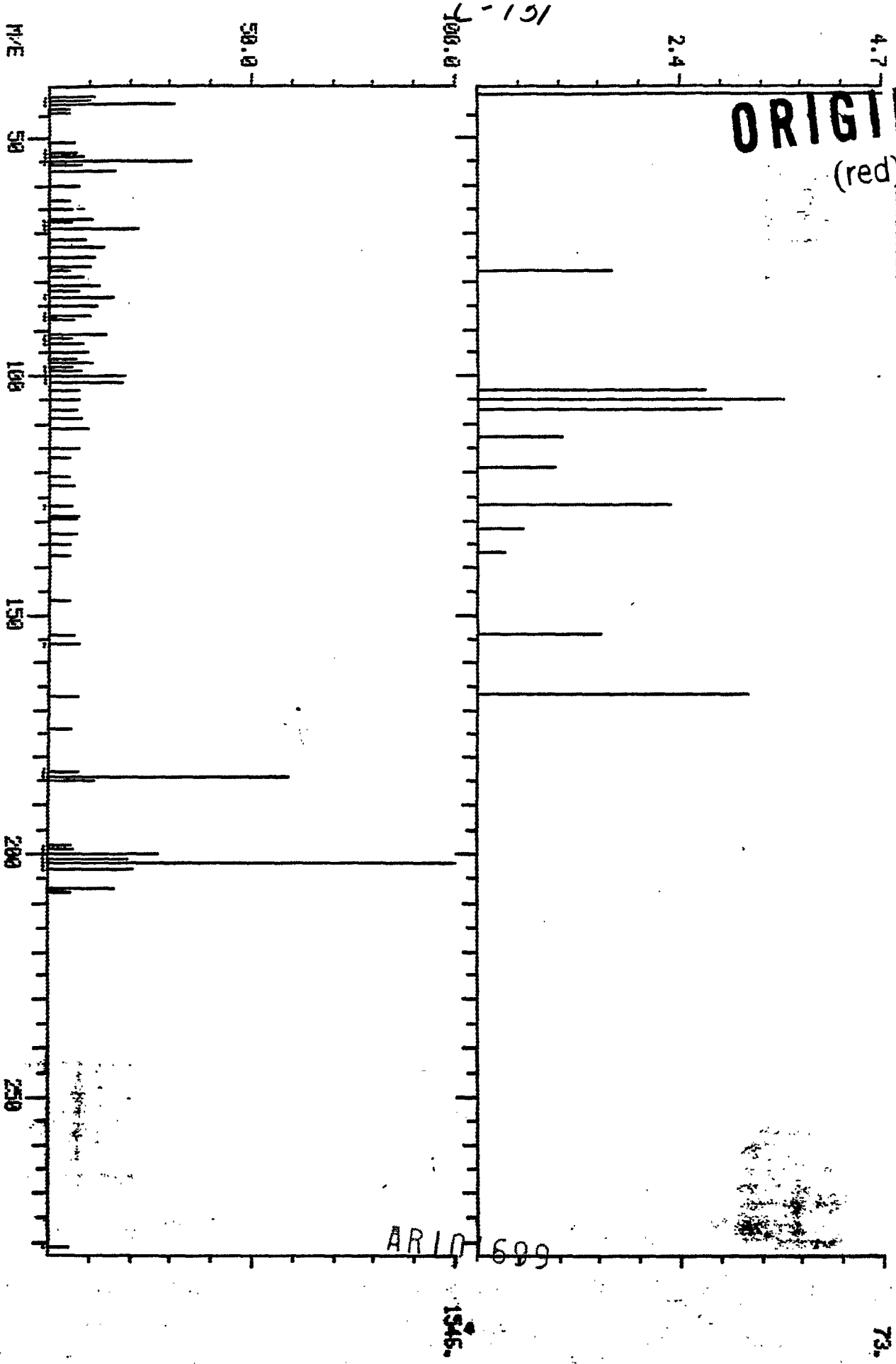
DUAL MASS SPECTRUM  
01/25/83 15:01:00 + 24:13  
SAMPLE: 1UL FIOC SAMPLE #25620 (100UL RCD#100UL B#SUL #7136-026)  
ENHANCED (S 15B 2N)

MEAD CON/UCHEN

DATA: CH025620A14 #1938 BASE N/E: 41/ 202

RIC: 384. 12975.

404 (7)



C-132

ORIGINAL

(red)

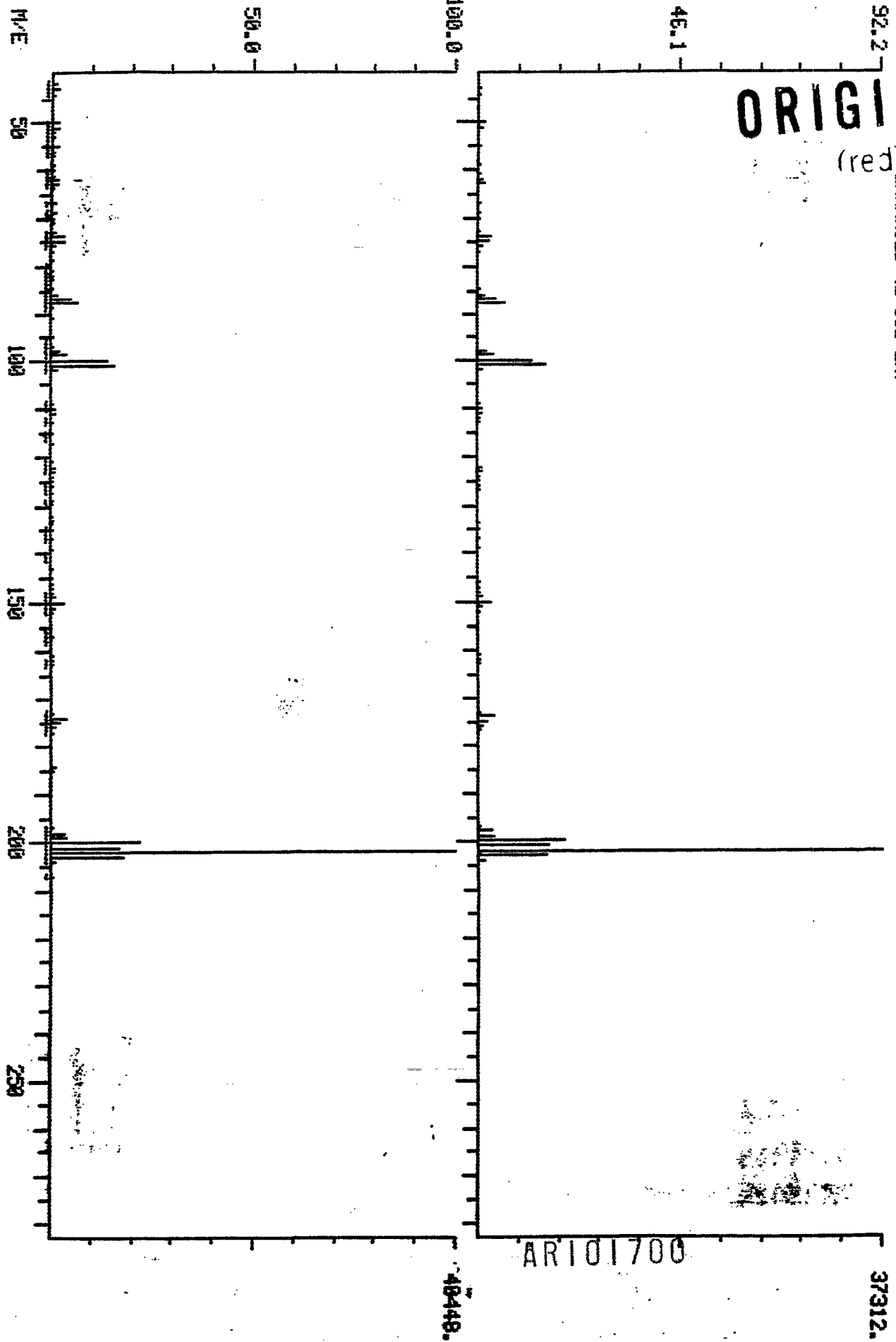
MEAD COMPUTCHEM

DATA: GH025620014 #1944 BASE M/E: 202/ 202

RIC: 99071.7 116095.

445

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 24:18  
SAMPLE: 10UL F50C SAMPLE #25620 (100UL FCD8 100UL BNE5UL #7135-026)  
ENHANCED (S 158 2M)



423

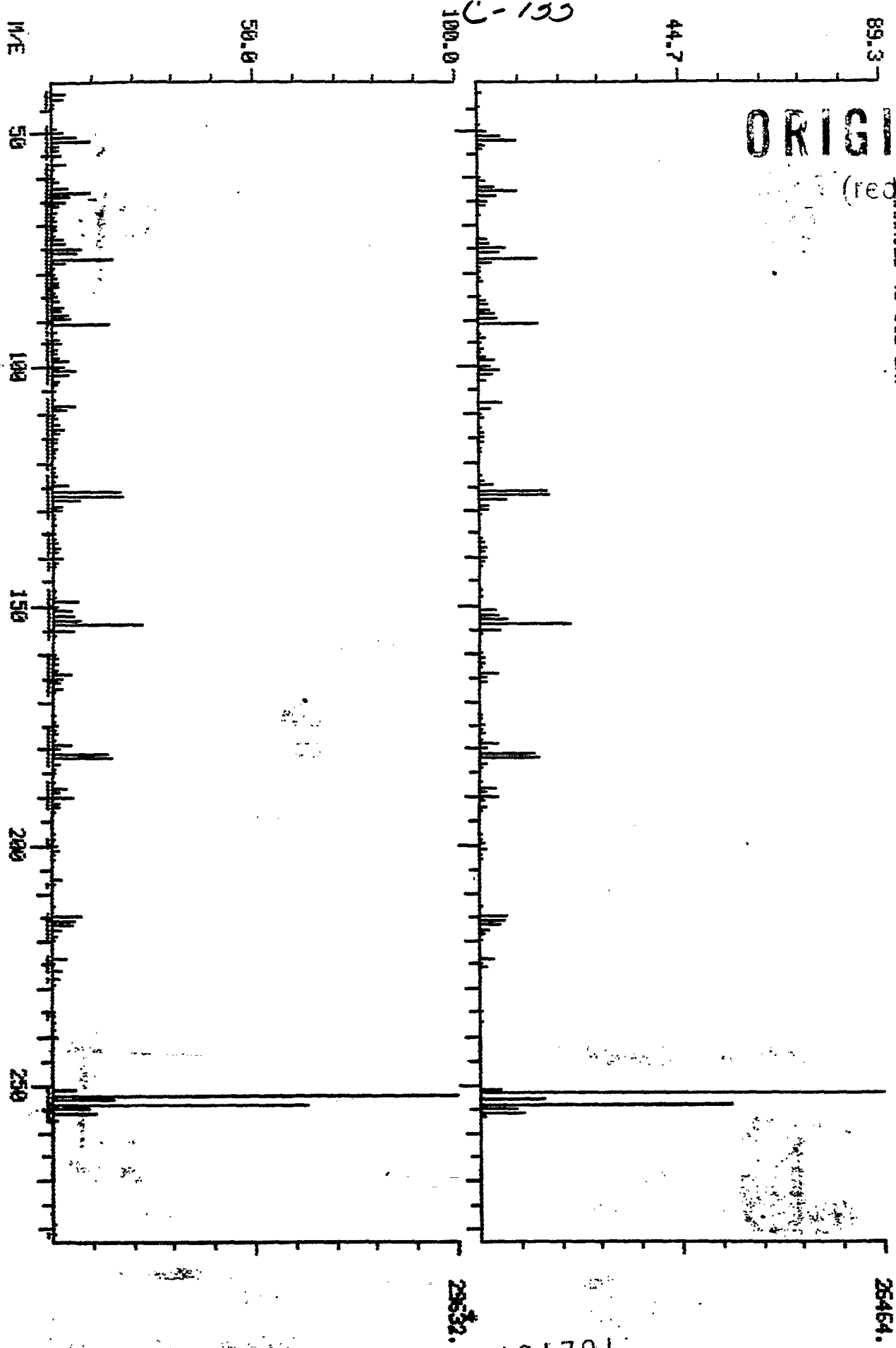
MEAD COMPUTHER

DATA: GH025620A14 #2184 BASE M/E: 252/ 252

RIC: 149479. / 185087.

DUAL MASS SPECTRUM  
01/25/83 15:01:00 + 27.18  
SAMPLE: 1UL F5CC SAMPLE #25620(100ULACD&100ULBR&SUL#7136-026)  
ENHANCED (5.158 2N)

ORIGINAL



C-133

ARI01701

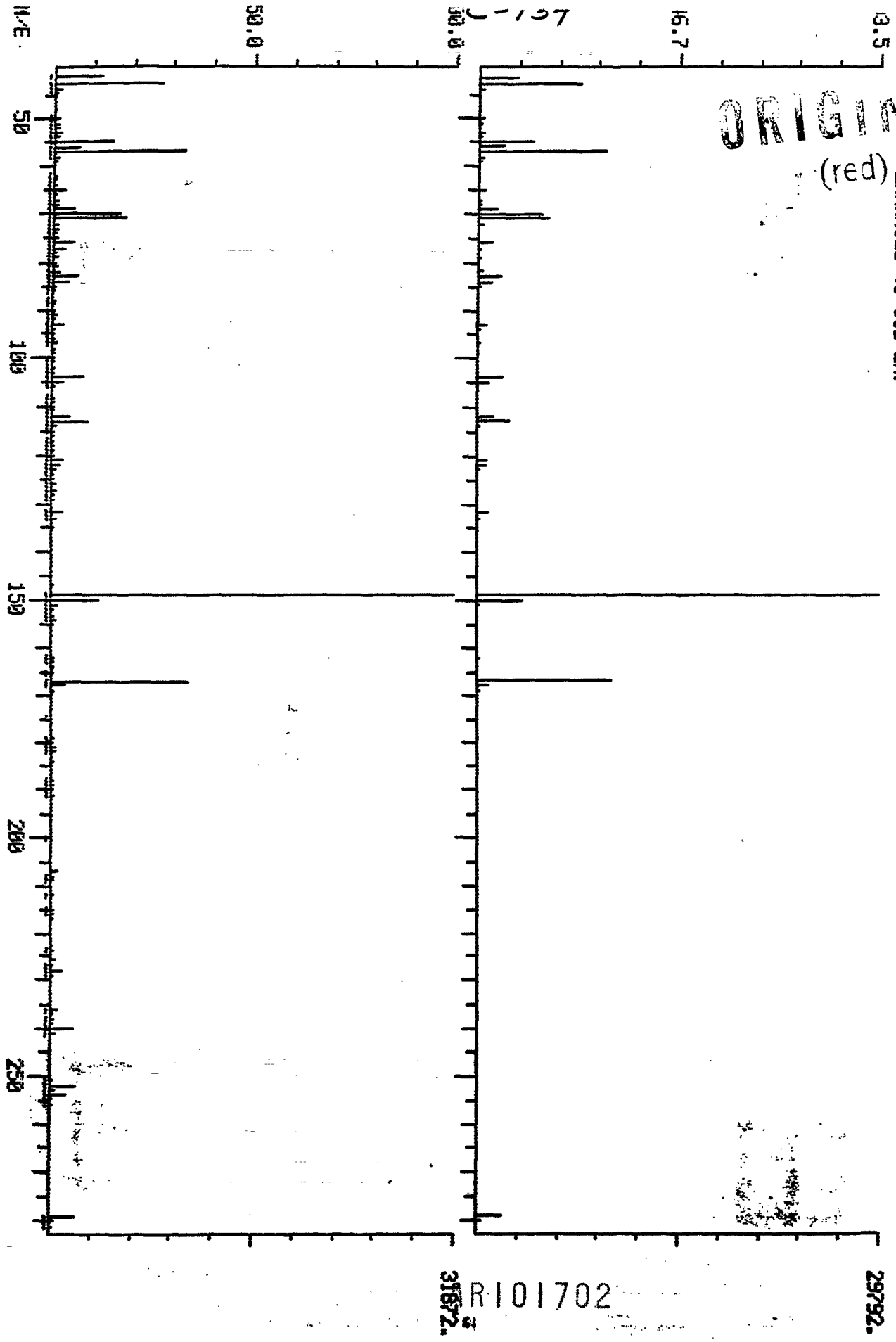
413

DUAL MASS SPECTRUM  
01/25/83 15:01:00 + 27.23  
SAMPLE: IUL F5CC SAMPLE #25520(100UL ACID&100UL BN&SUL #7135-025)  
ENHANCED (S 158 2N)

HEAD COMPUTER

DATA: CH025620414 #2191 BASE M/E: 149/ 149  
R1011702 RICI: 101119./ 139007.

ORIGINAL  
(red)



HEAD COMPUTER

DATA: GR025620A14 #2204 BASE M/E: 228/ 228

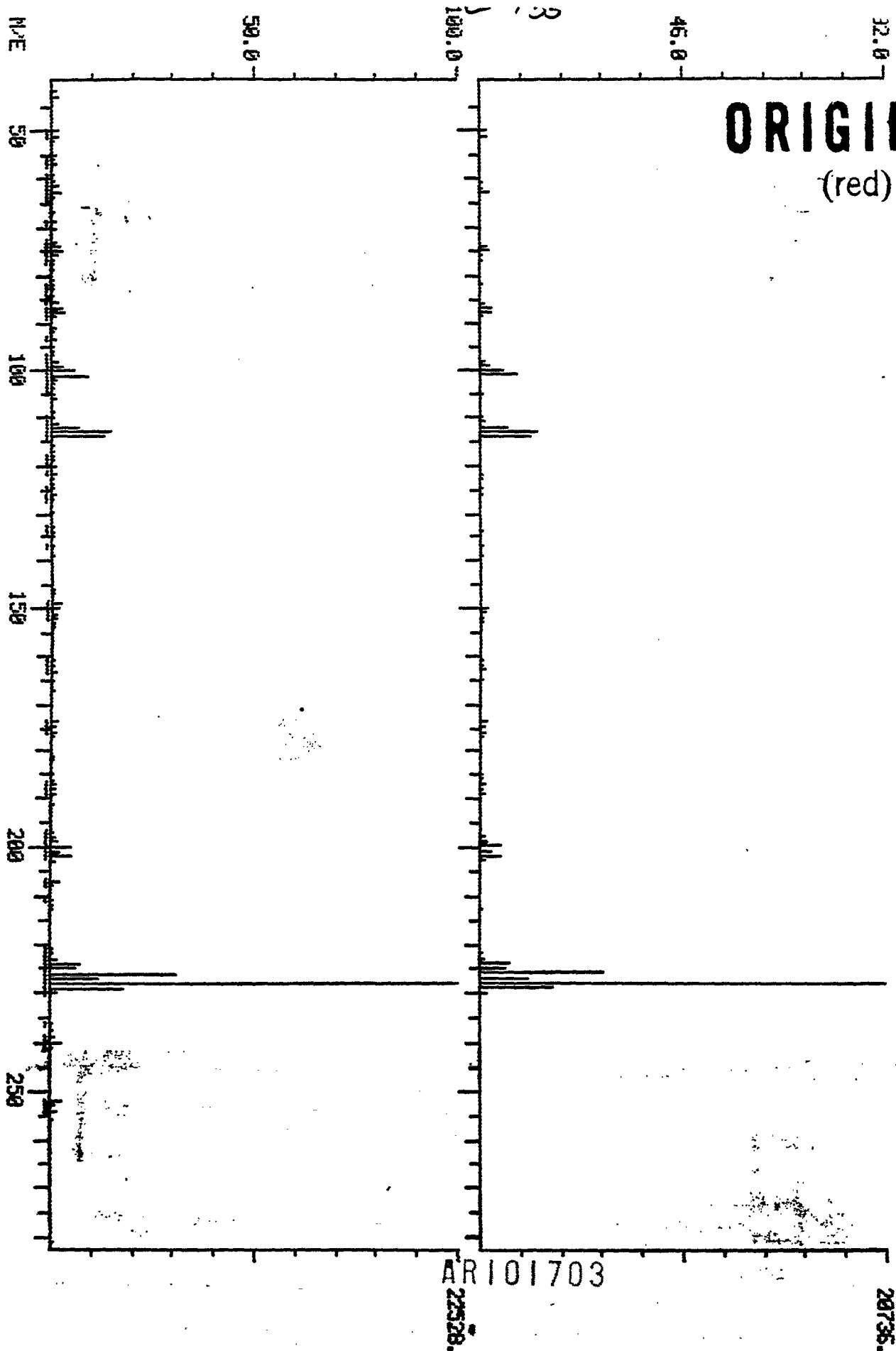
RIC: 60287. / 77567.

418

# ORIGINAL

(red)

DUAL MASS SPECTRUM  
01/25/83 15:01:00 + 27:33  
SAMPLE: 1UL F5CC SAMPLE #25620(100ULACD&100ULBK&SUL#7136-026)  
ENHANCED (5 158 2N)



ORIGINAL

(red)

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 29145  
SAMPLE: 1UL F50C SAMPLE #25620(100ULACD&100ULBN&5UL#7135-025)  
ENHANCED (5 158 2H)

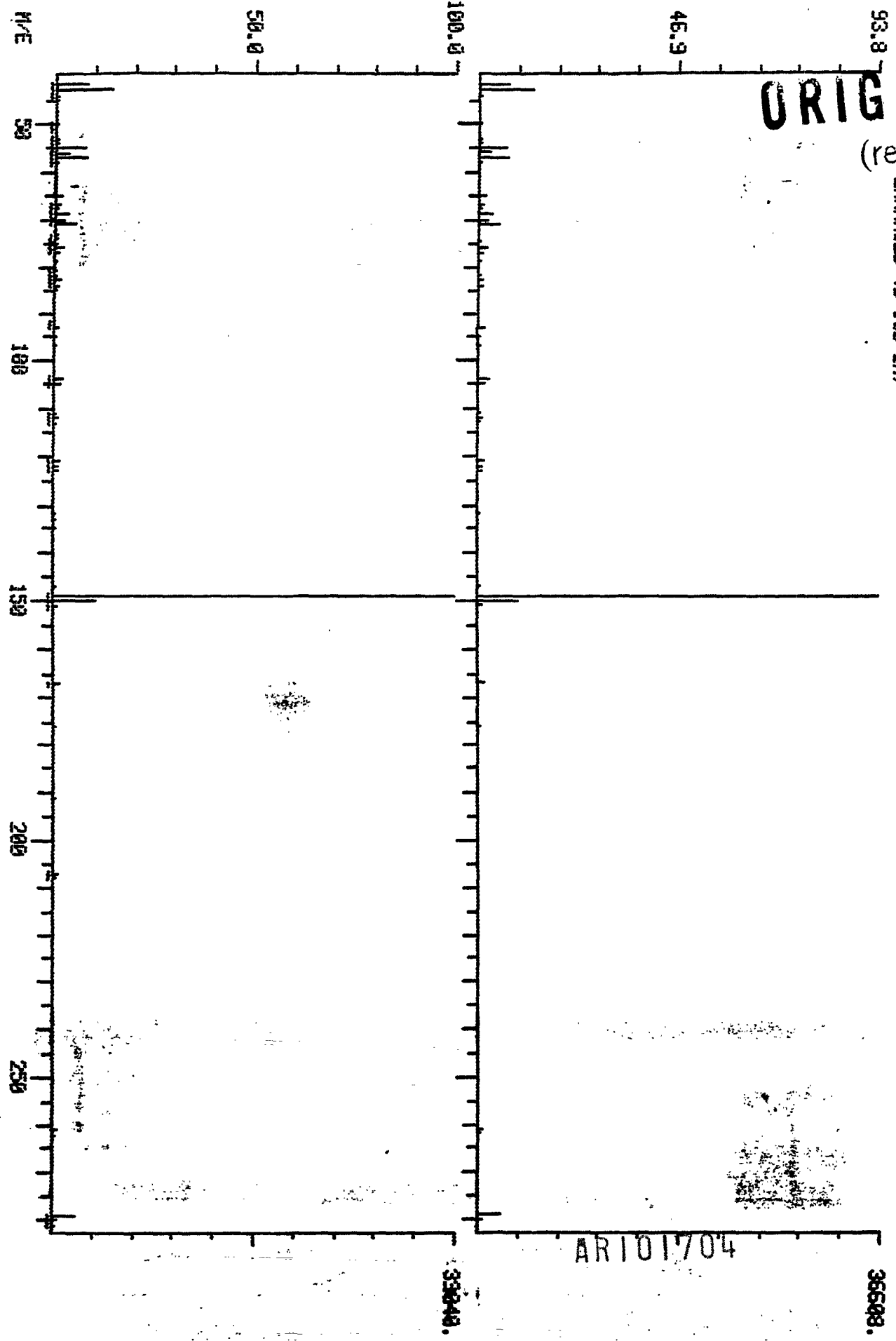
HEAD COMPUTER

DATA: GH025620A14 #2380 BASE M/E: 149/ 149

RIC: 73471./ 81407.

429

✓ 150



AR101704

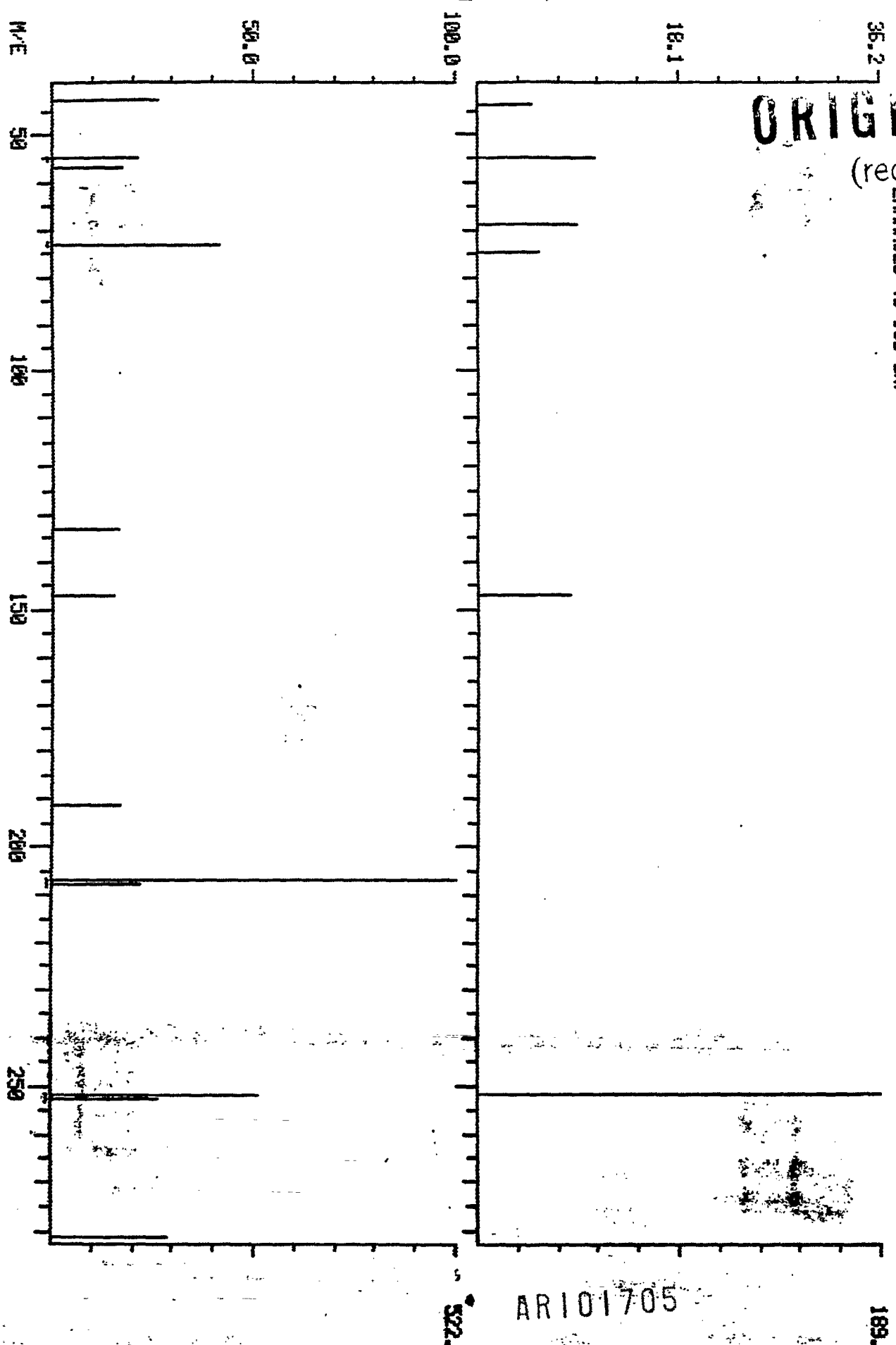
ORIGINAL

(red)

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 33:49  
SAMPLE: 1UL FSCC SAMPLE #25620(100LACID:100LBNLSUL#7135-026)  
ENHANCED (5 158 2N)

MEAD COMPUTHER

DATA: CH025620A14 #2706 BASE M/E: 252 / 207  
RIC: 389. / 1999.



AR101705



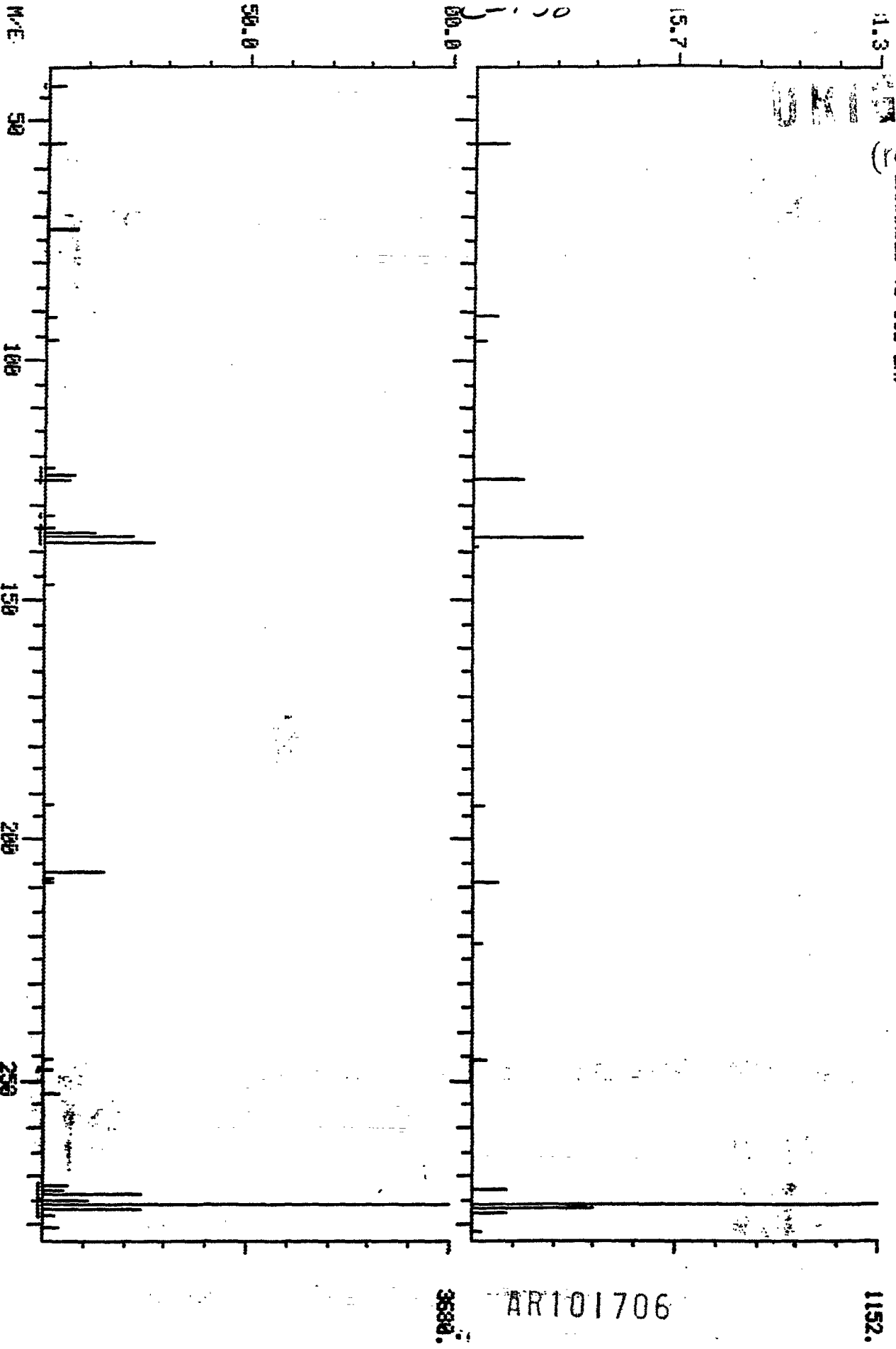
408

DUAL MASS SPECTRUM  
01/26/83 15:01:00 + 45:05  
SAMPLE: JUL FSCC SAMPLE #25620(100ULACD&100ULBNE&SUL#7135-026)  
ENHANCED (5 158 2N)

MEAD COMPUTER

DATA: CH025620A14 #3607 BASE M/E: 276/ 276

RIC: 2547.7 11439.



ORIGINAL

MASS CHROMATOGRAM  
01/26/83 15:01:00  
(red)  
SAMPLE: 10L FSCC SAMPLE #25620(100UL ACID:100UL BNSUL #7135-026)

HEAD COMPUCHEN

DATA: CH025620A14

SCANS 1770 TO 1799

1784  
6464.  
21451.

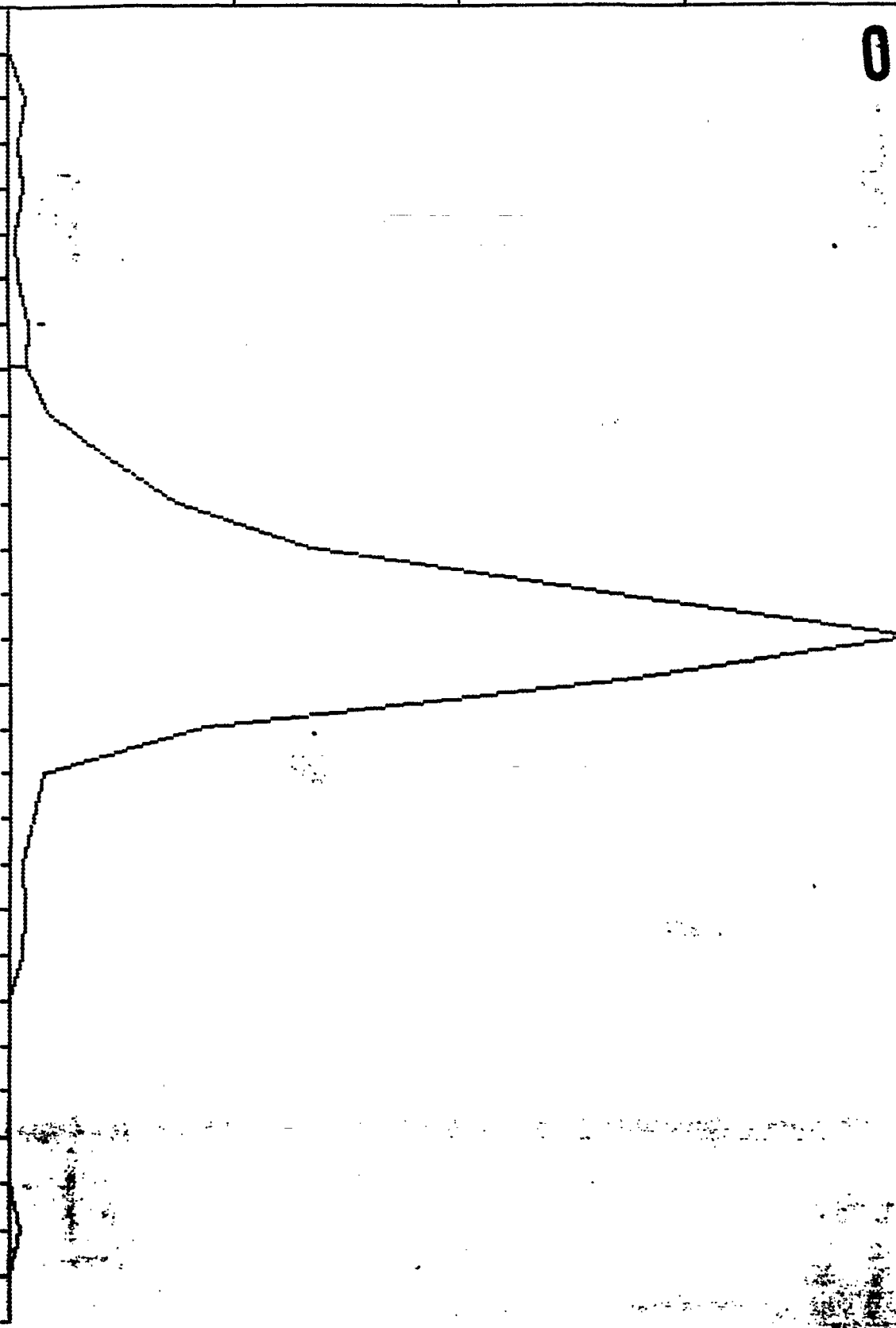
6464.

ARI01707

150.045  
± 0.500

C-139

1770 22:07  
1775 22:11  
1780 22:15  
1785 22:19  
1790 22:22  
1795 22:26  
SCAN TIME



ORIGINAL

(red)

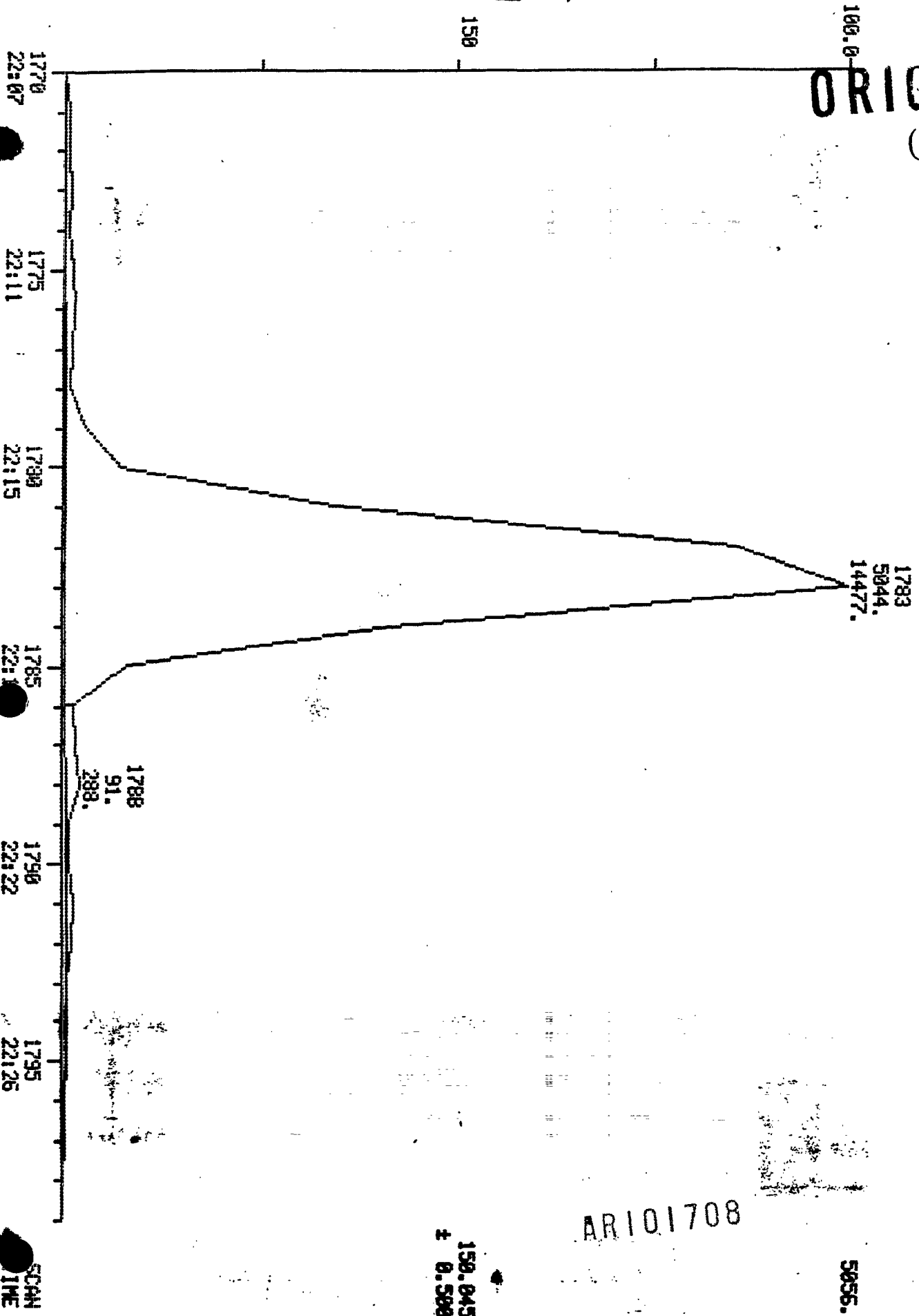
MASS CHROMATOGRAM  
01/26/83 10:20:00  
SAMPLE: 1UL FCC STD #7149-2337 (50NG)

HEAD COMPUTER

DATA: HSB30126A14

SCANS 1770 TO 1799

C-140



ARI01708

5056.

150.045  
0.589

SCAN  
TIME

DATA: GH025620A14.TI

01/26/83 15:01:00

SAMPLE: 1UL FSCC SAMPLE #25620(100ULACD&100ULBN&SUL#7136-026)

SUBMITTED BY: 14

ANALYST: NC

ORIGINAL

(red)

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)  
 RESP. FAC. FROM LIBRARY ENTRY

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
1	RIC	329	4:07	2	0.924	A BB	32576.	0.366	0.16
2	RIC	356	4:27	2	1.000	A BB	8891330.	100.000	42.41
3	RIC	371	4:38	2	1.042	A BB	16536.	0.186	0.08
4	RIC	393	4:55	2	1.104	A BB	28336.	0.319	0.14
5	RIC	410	5:07	2	1.152	A BV	37046.	0.417	0.18
6	RIC	420	5:15	2	1.180	A VV	8182.	0.092	0.04
7	RIC	446	5:34	2	1.253	A BB	17758.	0.200	0.08
8	RIC	461	5:46	2	1.295	A BB	5624.	0.063	0.03
9	RIC	474	5:55	2	1.331	A BV	24002.	0.270	0.11
10	RIC	479	5:59	2	1.346	A VB	128293.	1.443	0.61
11	RIC	501	6:16	2	1.407	A BV	68820.	0.774	0.33
12	RIC	515	6:26	2	1.447	A VV	14164.	0.159	0.07
13	RIC	521	6:31	2	1.463	A VB	10532.	0.118	0.05
14	RIC	527	6:35	2	1.480	A BB	22314.	0.251	0.11
15	RIC	541	6:46	2	1.520	A BV	5076.	0.057	0.02
16	RIC	546	6:49	2	1.534	A VB	7978.	0.090	0.04
17	RIC	561	7:01	2	1.576	A BB	9496.	0.107	0.05
18	RIC	575	7:11	2	1.615	A BV	5992.	0.067	0.03
19	RIC	588	7:21	2	1.652	A VV	24236.	0.273	0.12
20	RIC	593	7:25	2	1.666	A VV	15114.	0.170	0.07
21	RIC	602	7:31	2	1.691	A VB	51749.	0.582	0.25
22	RIC	613	7:40	2	1.722	A BB	7358.	0.083	0.04
23	RIC	625	7:49	2	1.756	A BV	113996.	1.282	0.54
24	RIC	637	7:58	2	1.789	A VV	118360.	1.331	0.56
25	RIC	647	8:05	2	1.817	A VB	21724.	0.244	0.10
26	RIC	658	8:13	2	1.848	A BB	5100.	0.057	0.02
27	RIC	675	8:26	2	1.896	A BV	356016.	4.004	1.70
28	RIC	685	8:34	2	1.924	A VB	52348.	0.589	0.25
29	RIC	699	8:44	2	1.963	A BB	9562.	0.108	0.05
30	RIC	708	8:51	2	1.989	A BB	17906.	0.201	0.09
31	RIC	730	9:07	2	2.051	A BV	51333.	0.577	0.24
32	RIC	742	9:16	2	2.084	A VB	12468.	0.140	0.06
33	RIC	757	9:28	2	2.126	A BV	8308.	0.093	0.04
34	RIC	769	9:37	2	2.160	A VB	46488.	0.523	0.22
35	RIC	797	9:58	2	2.239	A BV	543720.	6.115	2.59
36	RIC	803	10:02	2	2.256	A VV	49992.	0.562	0.24
37	RIC	808	10:06	2	2.270	A VV	290688.	3.269	1.39
38	RIC	817	10:13	2	2.295	A VV	261964.	2.946	1.25
39	RIC	831	10:23	2	2.334	A VB	188888.	2.124	0.90
40	RIC	842	10:31	2	2.365	A BV	148794.	1.673	0.71
41	RIC	873	10:55	2	2.452	A BV	282111.	3.173	1.35
42	RIC	882	11:01	2	2.478	A VB	10615.	0.119	0.05
43	RIC	890	11:07	2	2.500	A BV	17434.	0.196	0.08
44	RIC	896	11:12	2	2.517	A VB	79720.	0.897	0.38
45	RIC	914	11:25	2	2.567	A BV	33064.	0.372	0.16
46	RIC	920	11:30	2	2.584	A BV	237556.	2.672	1.13

RY 01709

C-142

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA(HGHT)	AMOUNT	%TOT
47	RIC	931	11:38	2	2.615	A VB	11618.	0.131	0.06
48	RIC	946	11:49	2	2.657	A BV	923766.	10.390	4.41
49	RIC	952	11:54	2	2.674	A VV	40747.	0.458	0.19
50	RIC	969	12:07	2	2.722	A BV	537624.	6.047	2.56
51	RIC	987	12:20	2	2.772	A VB	494723.	5.564	2.36
52	RIC	998	12:28	2	2.803	A BV	15003.	0.169	0.07
53	RIC	1029	12:52	2	2.890	A BV	187223.	2.106	0.89
54	RIC	1051	13:08	2	2.952	A VV	189532.	2.132	0.90
55	RIC	1067	13:20	2	2.997	A VB	150786.	1.696	0.72
56	RIC	1082	13:31	2	3.039	A BV	270470.	3.042	1.29
57	RIC	1090	13:37	2	3.062	A VV	139888.	1.573	0.67
58	RIC	1098	13:43	2	3.084	A VB	5423.	0.061	0.03
59	RIC	1053	13:10	2	2.958	A BB	34096.	0.383	0.16
60	RIC	1067	13:20	2	2.997	A BB	138475.	1.557	0.66
61	RIC	1082	13:31	2	3.039	A BV	270254.	3.040	1.29
62	RIC	1090	13:37	2	3.062	A VV	139685.	1.571	0.67
63	RIC	1098	13:43	2	3.084	A VB	5289.	0.059	0.03
64	RIC	1108	13:51	2	3.112	A BB	8411.	0.095	0.04
65	RIC	1115	13:56	2	3.132	A BB	8654.	0.097	0.04
66	RIC	1143	14:17	2	3.211	A BV	11795.	0.133	0.06
67	RIC	1189	14:52	2	3.340	A BB	168752.	1.898	0.80
68	RIC	1217	15:13	2	3.419	A BV	10234.	0.115	0.05
69	RIC	1224	15:18	2	3.438	A VB	20635.	0.232	0.10
70	RIC	1236	15:27	2	3.472	A BV	25358.	0.285	0.12
71	RIC	1256	15:42	2	3.528	A BB	32793.	0.369	0.16
72	RIC	1285	16:04	2	3.610	A BV	897420.	10.093	4.28
73	RIC	1292	16:09	2	3.629	A VB	9393.	0.106	0.04
74	RIC	1321	16:31	2	3.711	A BB	48405.	0.544	0.23
75	RIC	1335	16:41	2	3.750	A BB	5380.	0.061	0.03
76	RIC	1364	17:03	2	3.831	A BB	6613.	0.074	0.03
77	RIC	1379	17:14	2	3.874	A BB	206631.	2.324	0.99
78	RIC	1396	17:27	2	3.921	A BB	14994.	0.169	0.07
79	RIC	1416	17:42	2	3.978	A BB	371366.	4.177	1.77
80	RIC	1425	17:49	2	4.003	A BV	150248.	1.690	0.72
81	RIC	1435	17:56	2	4.031	A VV	227984.	2.564	1.09
82	RIC	1450	18:07	2	4.073	A VB	223728.	2.516	1.07
83	RIC	1477	18:28	2	4.149	A BB	8872.	0.100	0.04
84	RIC	1491	18:38	2	4.188	A BV	15307.	0.172	0.07
85	RIC	1504	18:48	2	4.225	A VB	308132.	3.466	1.47
86	RIC	1554	19:25	2	4.365	A BB	6442.	0.072	0.03
87	RIC	1572	19:39	2	4.416	A BB	10822.	0.122	0.05
88	RIC	1582	19:46	2	4.444	A BB	24362.	0.274	0.12
89	RIC	1612	20:09	2	4.528	A BV	24254.	0.273	0.12
90	RIC	1622	20:16	2	4.556	A VB	289584.	3.257	1.38
91	RIC	1636	20:27	2	4.596	A BV	18914.	0.213	0.09
92	RIC	1643	20:32	2	4.615	A VB	28788.	0.324	0.14
93	RIC	1655	20:41	2	4.649	A BV	106709.	1.200	0.51
94	RIC	1662	20:46	2	4.669	A VV	82269.	0.925	0.39
95	RIC	1670	20:52	2	4.691	A VB	40328.	0.454	0.19
96	RIC	1679	20:59	2	4.716	A BB	154140.	1.734	0.74
97	RIC	1691	21:08	2	4.750	A BB	12488.	0.140	0.06
98	RIC	1729	21:37	2	4.857	A BV	61788.	0.694	0.29
99	RIC	1741	21:46	2	4.890	A VB	140612.	1.581	0.67
100	RIC	1757	21:58	2	4.935	A BV	126498.	1.423	0.60
101	RIC	1768	22:06	2	4.966	A VB	473312.	5.323	2.26
102	RIC	1784	22:18	2	5.011	A BB	400480.	4.504	1.91

AR101710

ORIGINAL

(red)

NO	M/E	SCAN	TIME	REF	RRT	METH	AREA (HGHT)	AMOUNT	%TOT
103	RIC	1801	22:31	2	5.059	A BB	31976.	0.360	0.15
104	RIC	1812	22:39	2	5.090	A BV	21370.	0.240	0.10
105	RIC	1818	22:43	2	5.107	A VB	5926.	0.067	0.03
106	RIC	1827	22:50	2	5.132	A BB	8048.	0.091	0.04
107	RIC	1833	22:55	2	5.149	A BV	11027.	0.124	0.05
108	RIC	1838	22:58	2	5.163	A VV	6622.	0.074	0.03
109	RIC	1857	23:13	2	5.216	A BV	65680.	0.739	0.31
110	RIC	1868	23:21	2	5.247	A VV	86272.	0.970	0.41

ORIGINAL  
(red)

AR 101711