ORIGINAL (Red)

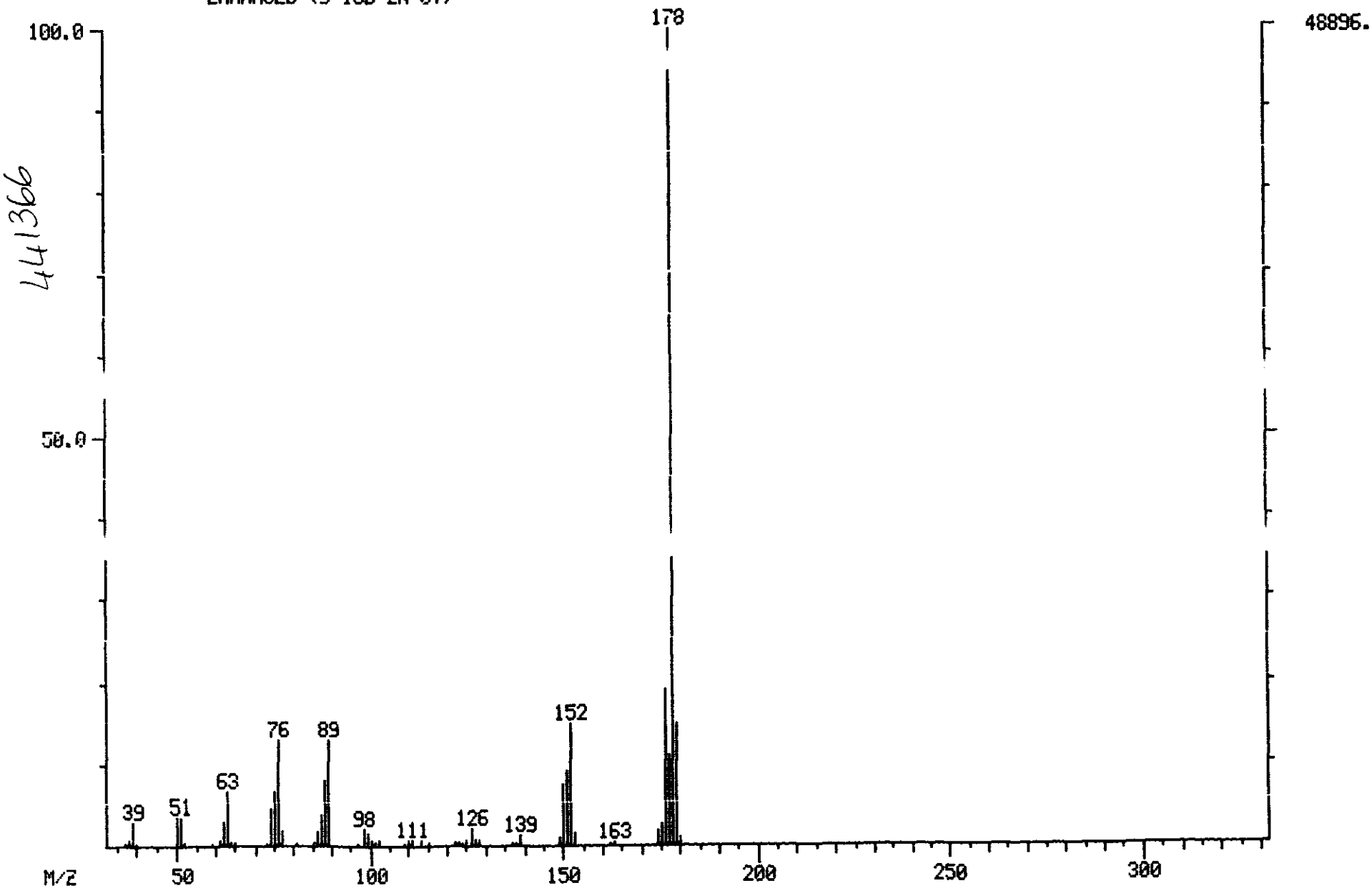
MASS SPECTRUM
05/16/90 17:01:00 + 22:54
SAMPLE. CLP,,,SSTD50,,,22658,6,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MINC38C TO 302C8C/MIN
** NAME: C640 PHENANTHRENE
ENHANCED (5 15B 2N 0T)

DATA: T2624 #1374
CALI: T2624 #2

BASE M/Z: 178
RIC: 136960.

100268

441366



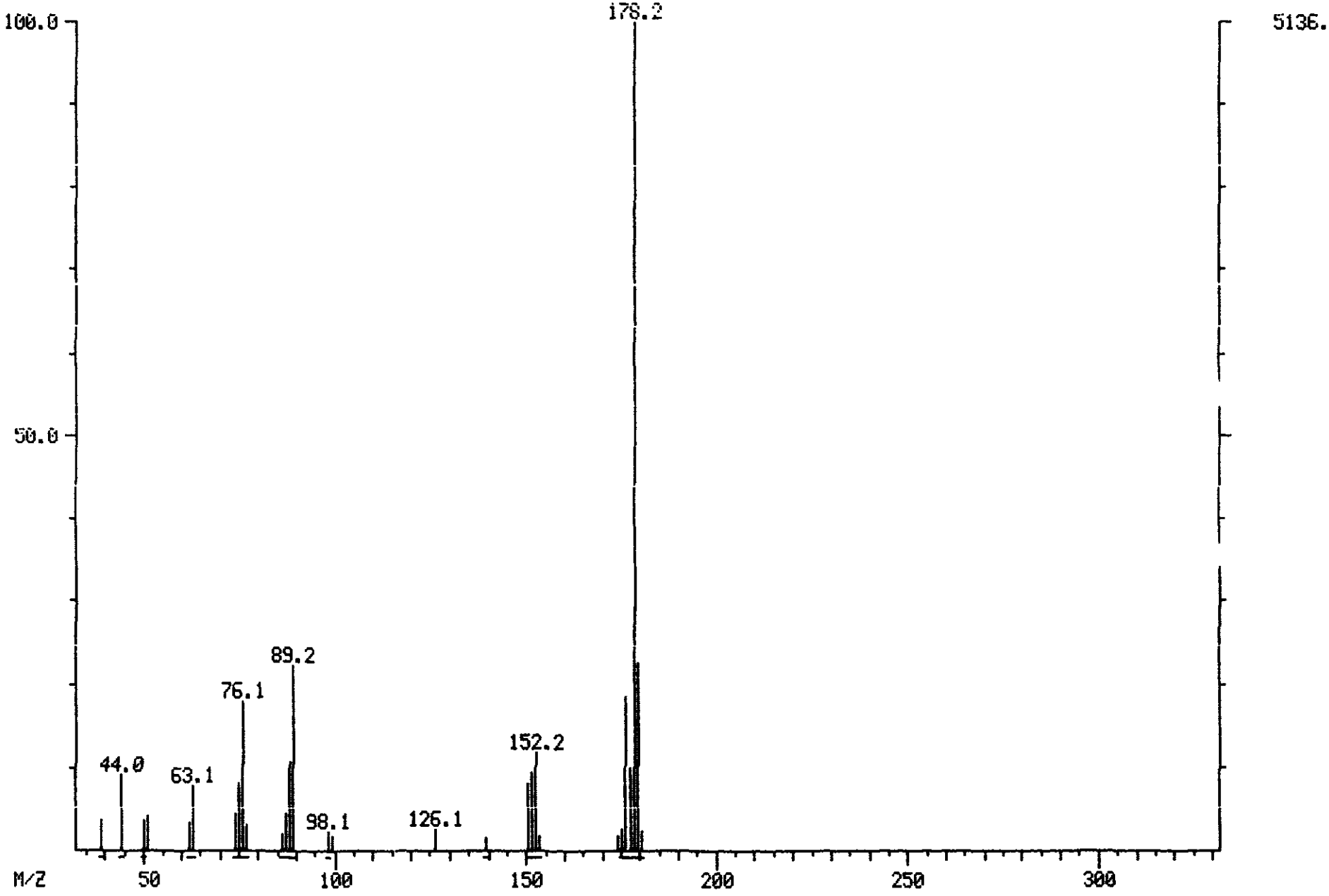
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:23:00 + 23:03
SAMPLE: CLP,VERSCOM,2565,11,M,5,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C645 ANTHRACENE

DATA: T2629 #1383
CALI: T2629 #2

BASE M/Z: 178
RIC: 15632.

100269



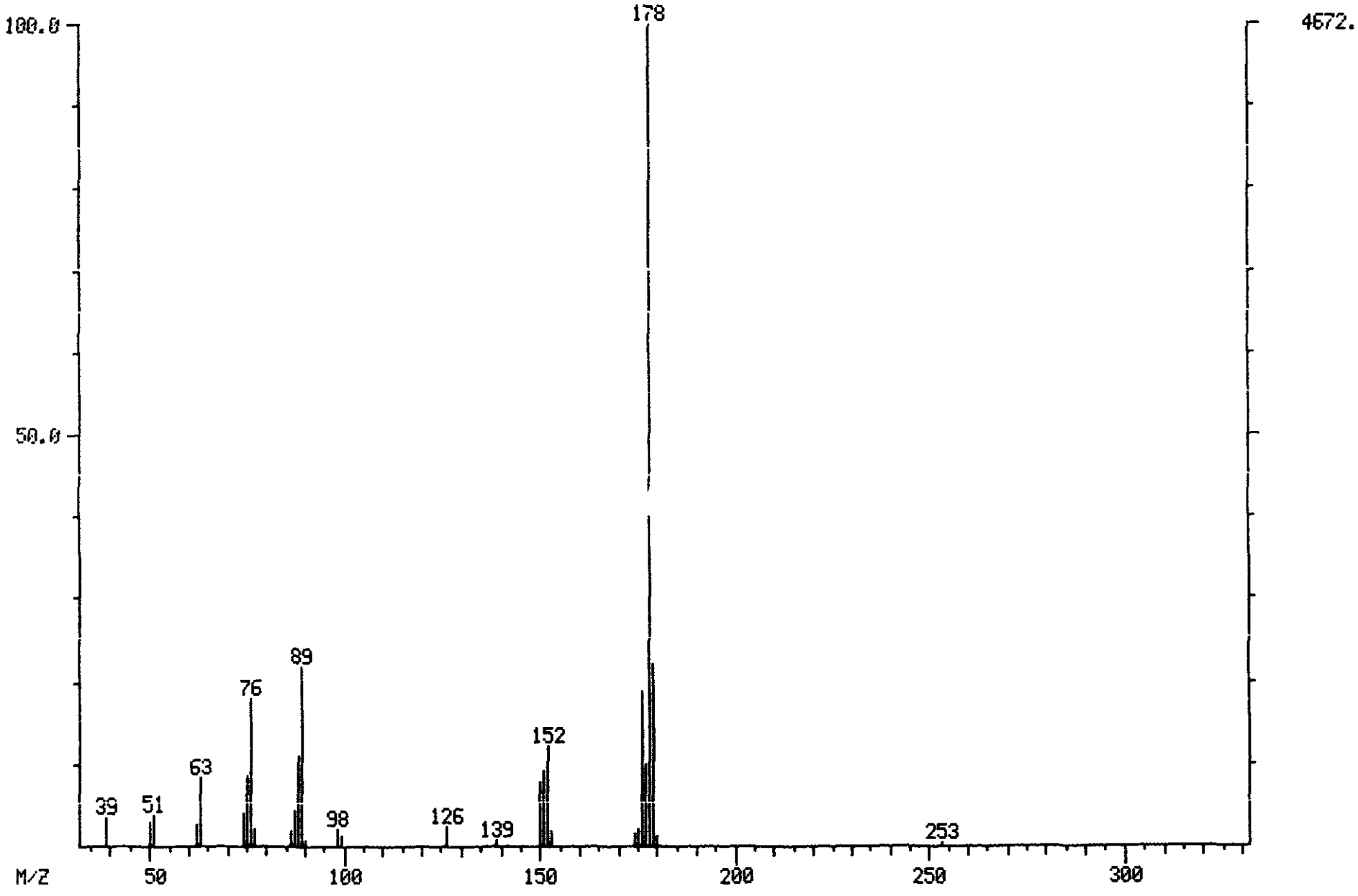
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:23:00 + 23:03
SAMPLE: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C645 ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2629 #1383
CALI: T2629 #2

BASE M/Z: 178
RIC: 13520.

100270



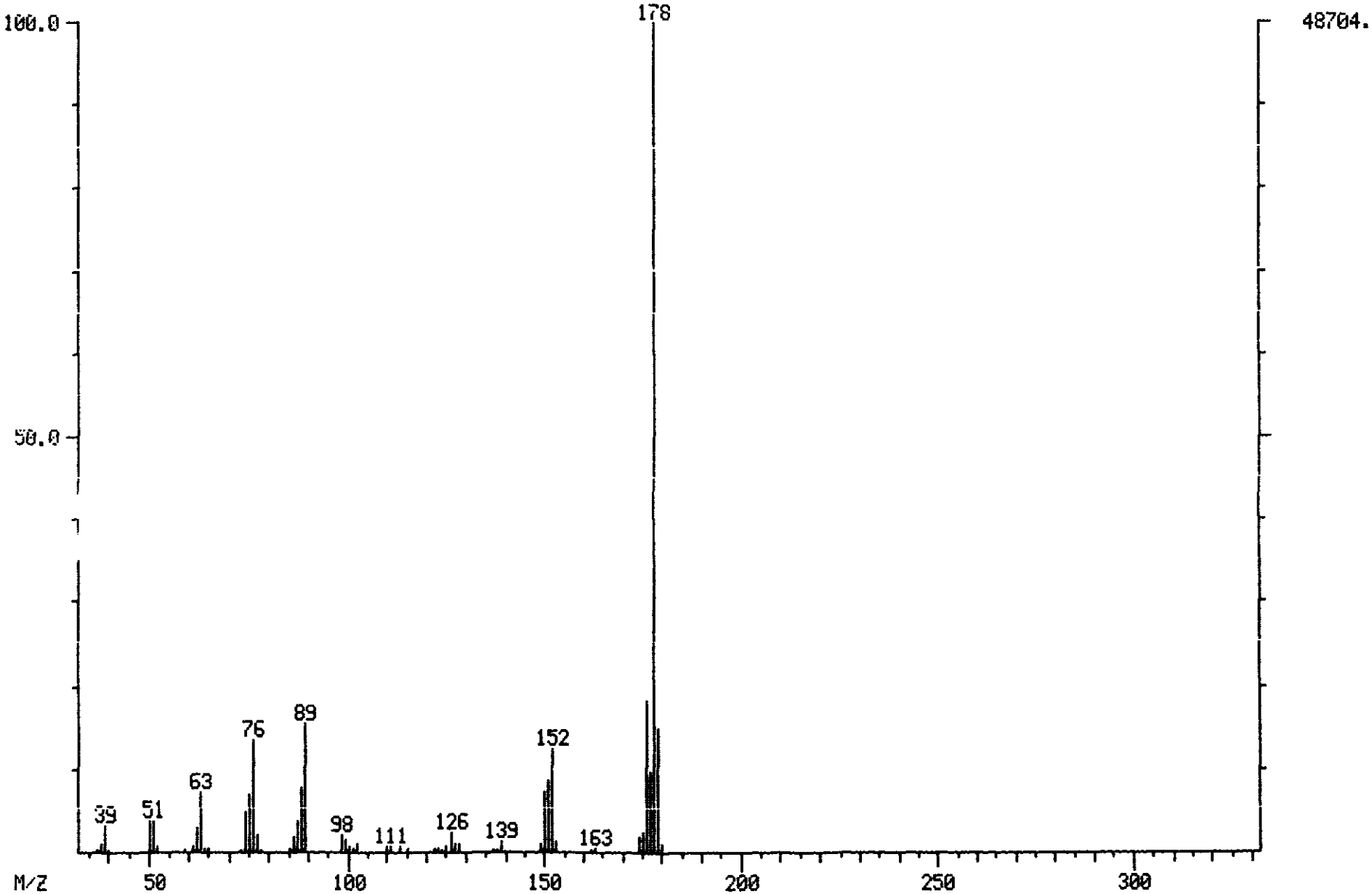
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 23:03
SAMPLE: CLP,,,SSTD50,,,22658,6,CC050,,,1UL,
CONDS.· INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
** NAME: C645 ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #1383
CALI: T2624 #2

BASE M/Z: 178
RIC: 137964.

100271



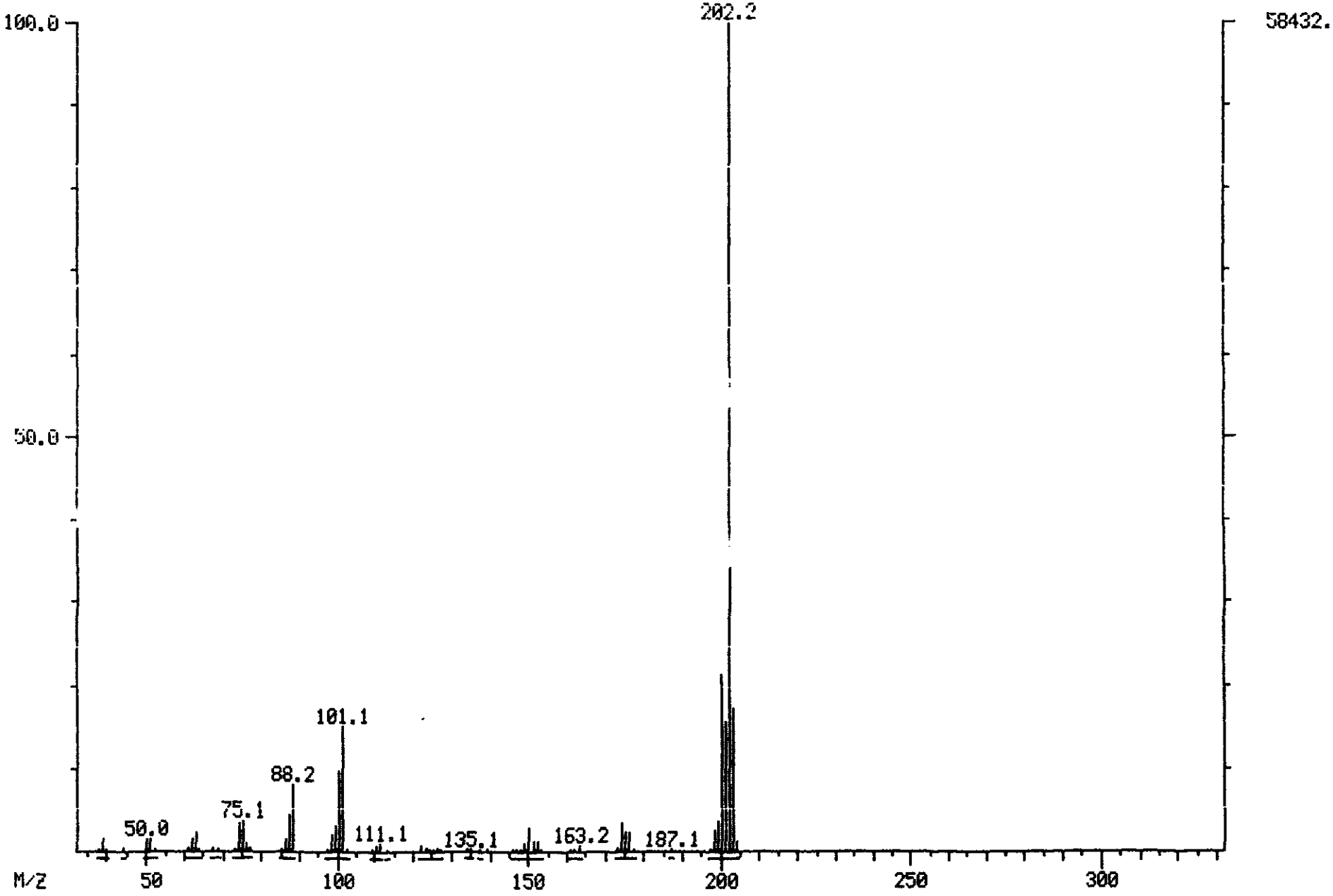
ORIGINAL (Red)

100272

MASS SPECTRUM
05/16/90 22:26:00 + 26:48
SAMPLE: CLP,VERSCOM,2565,11,M,5,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302C@8C/MIN
** NAME: C655 FLUORANTHENE

DATA: T2629 #1608
CALI: T2629 #2

BASE M/Z: 202
RIC: 147712.

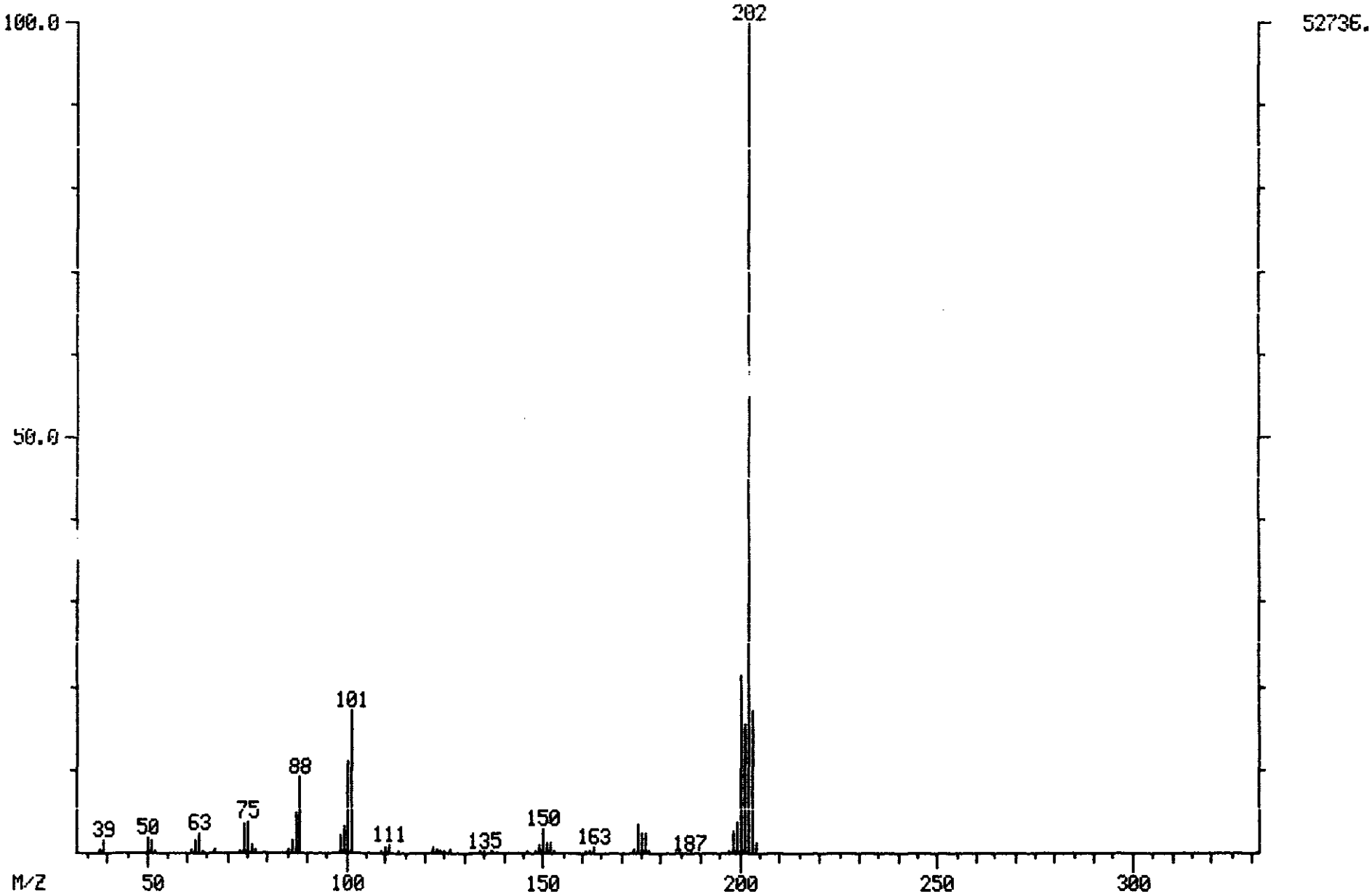


100273

MASS SPECTRUM
05/16/90 22:28:00 + 26:48
SAMPLE: CLP,VERSCOM,2565,11,M,S,16913,P,,420.1 B#4,1UL,
CONDS.· INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C655 FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2629 #1608
CALI: T2629 #2

BASE M/Z: 202
RIC: 136704.



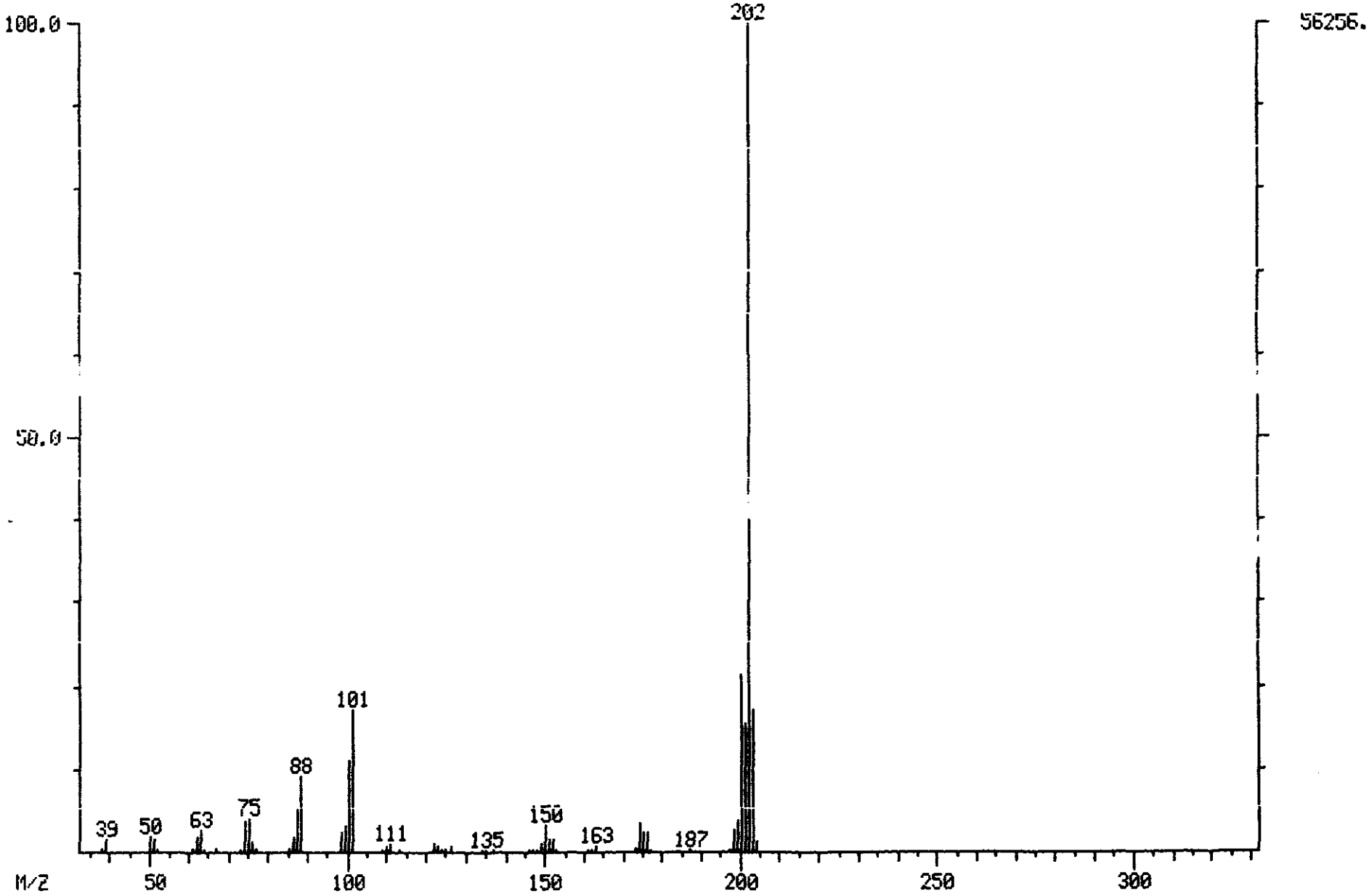
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 26:47
SAMPLE. CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
** NAME: C655 FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #1607
CALI: T2624 #2

BASE M/Z: 202
RIC: 146668.

100274



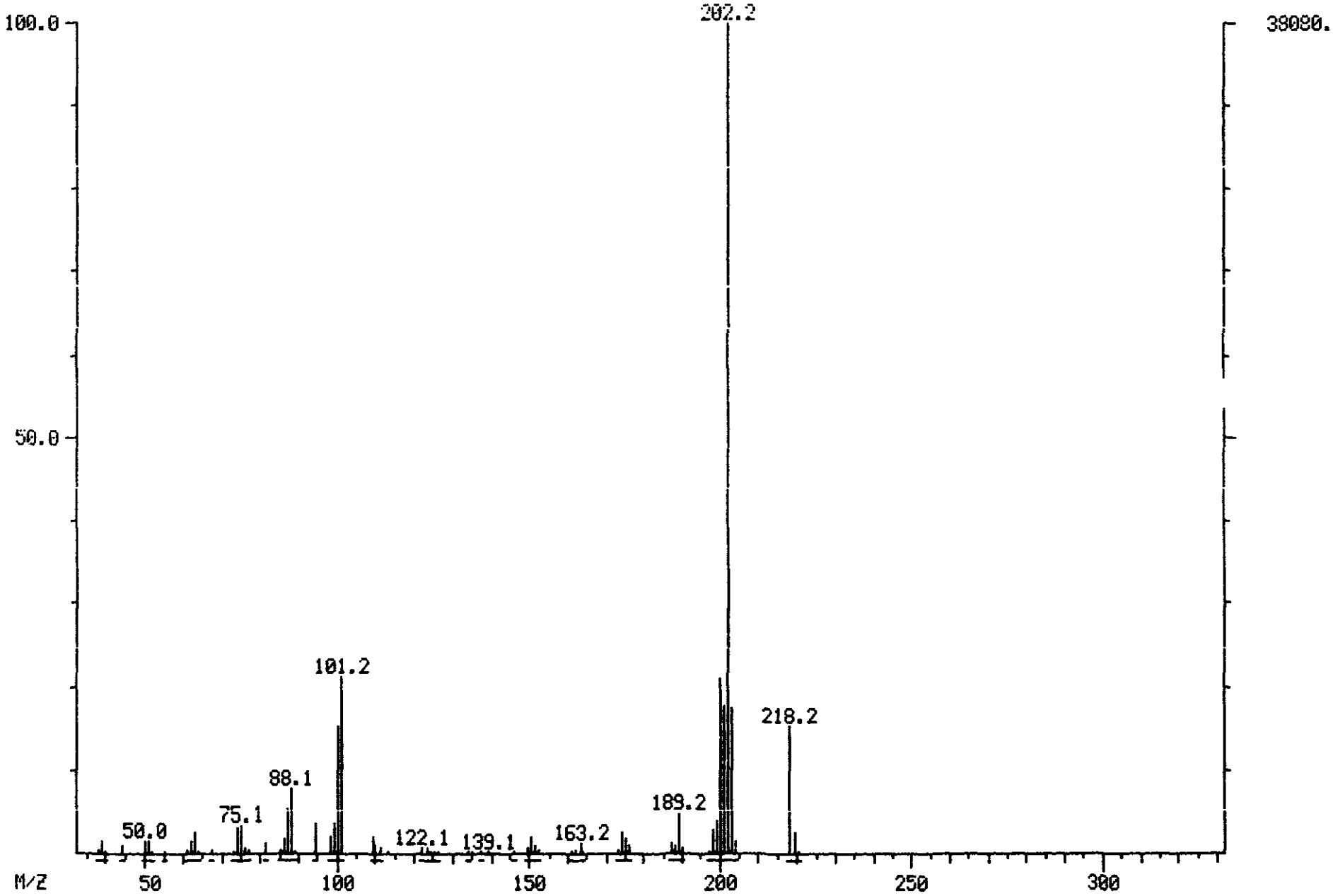
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:28:00 + 27:31
SAMPLE: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MINC38C TO 30208C/MIN
** NAME: C715 PYRENE

DATA: T2629 #1651
CALI: T2629 #2

BASE M/Z: 202
RIC: 113536.

100275



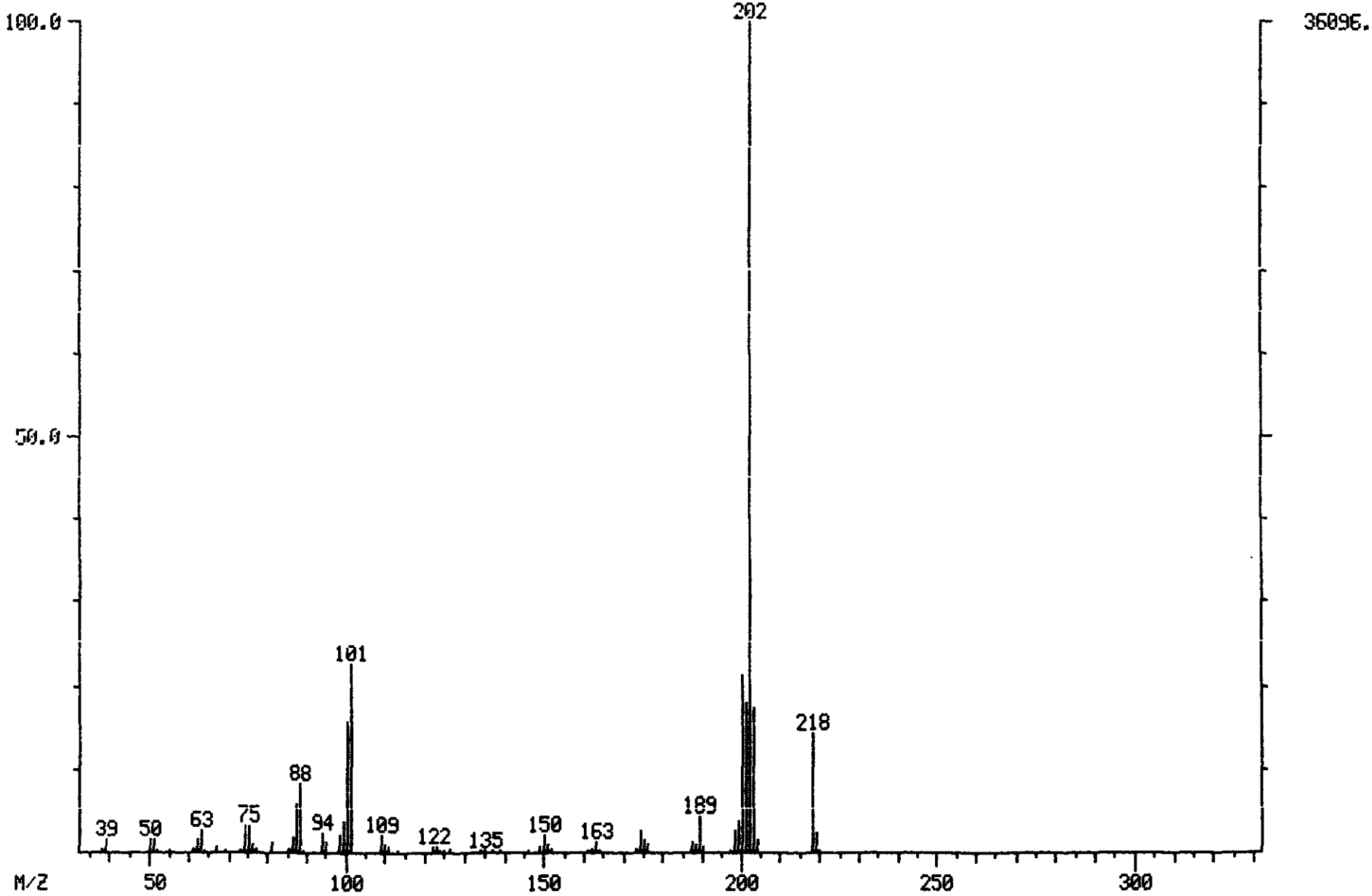
ORIGINAL (Red)

100276

MASS SPECTRUM
05/16/90 22:28:00 + 27:31
SAMPLE: CLP,VERSCOM,2565,11,M,S,16913,E,,420.1 PM4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C715 PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2629 #1651
CALI: T2629 #2

BASE M/Z: 202
RIC: 108160.



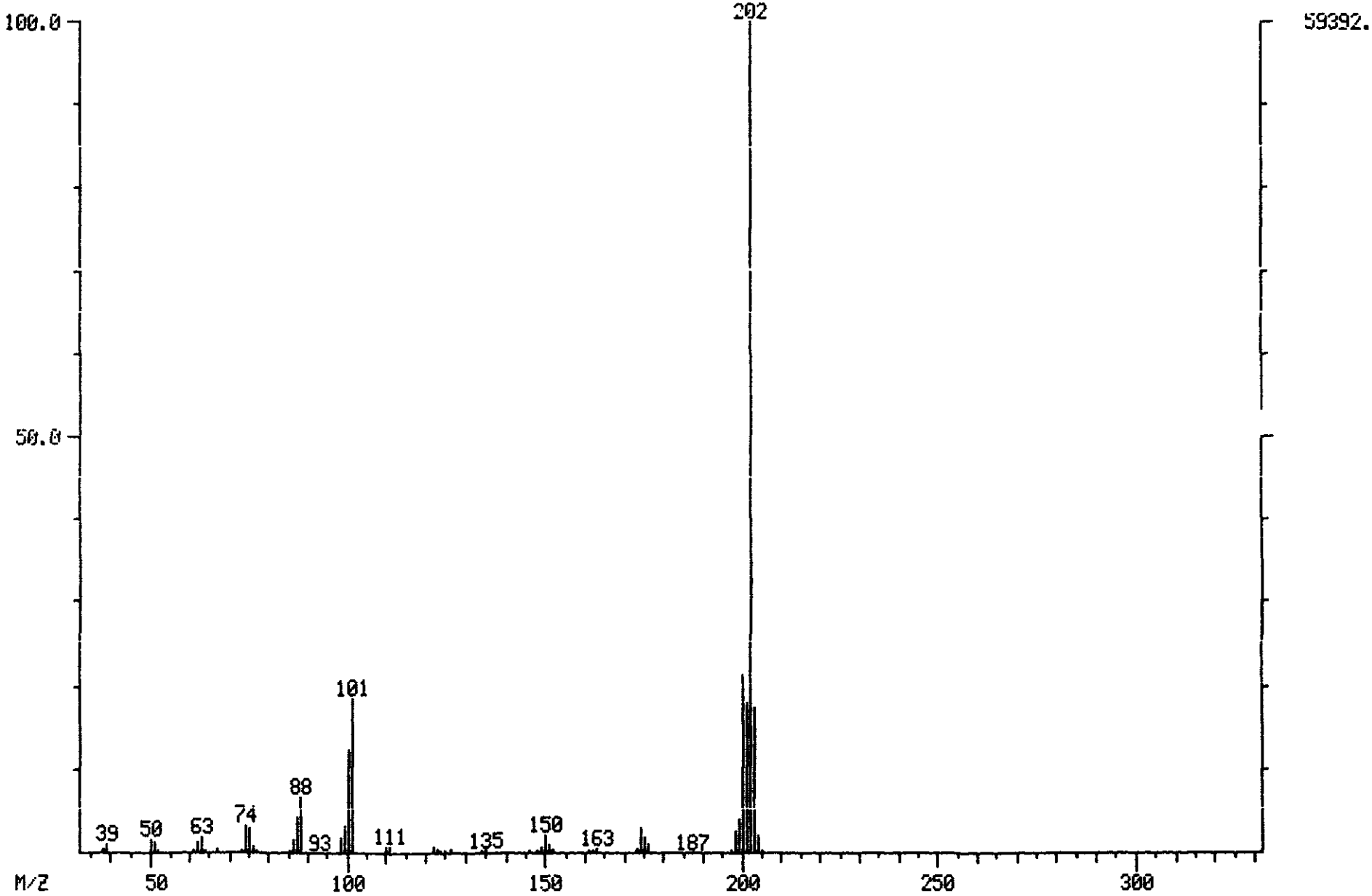
ORIGINAL (Red)

100277

MASS SPECTRUM
05/16/90 17:01:00 + 27:30
SAMPLE: CLP,,,SSTD50,,,22656,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C715 PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #1650
CALI: T2624 #2

BASE M/Z: 202
RIC: 149248.



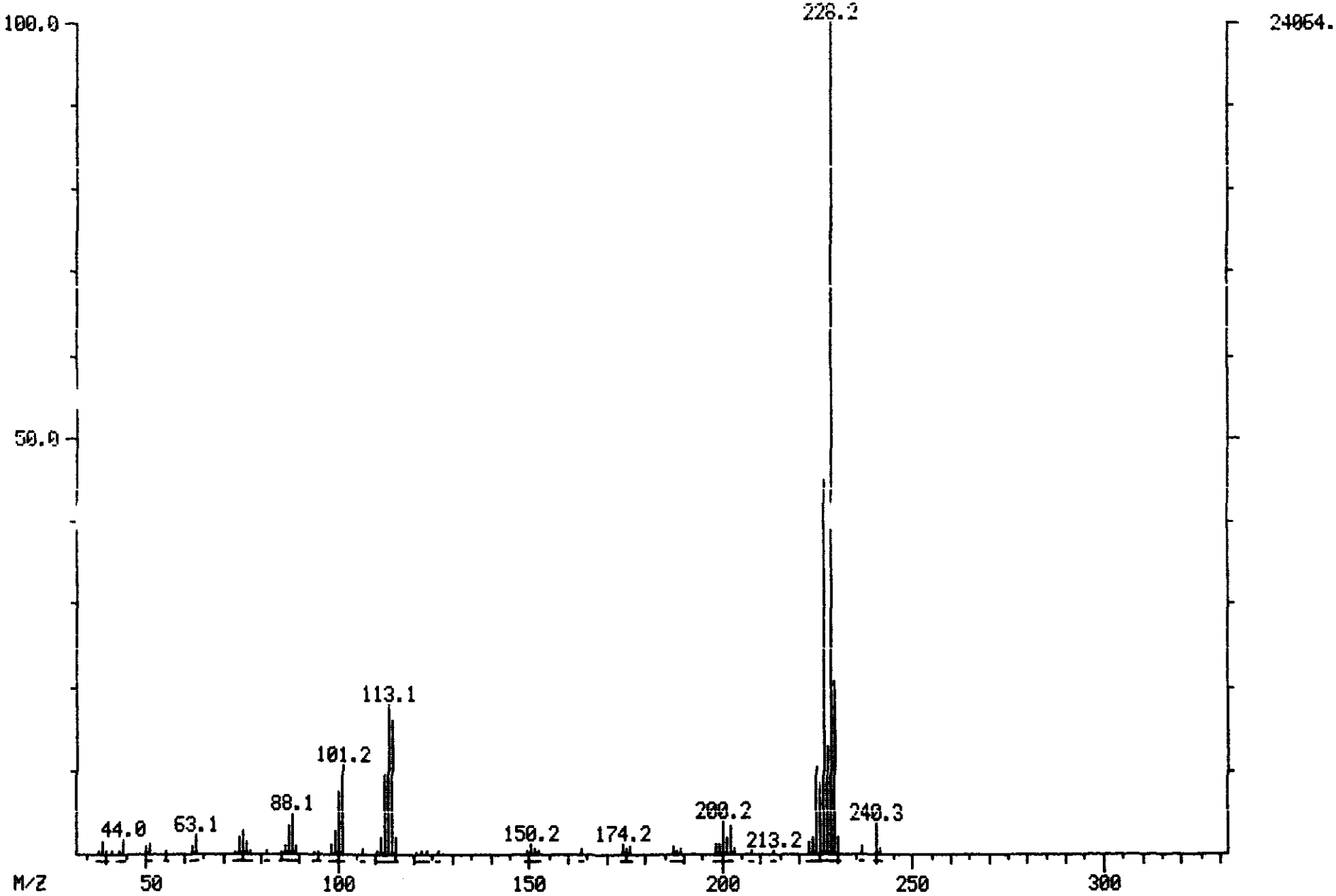
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:26:00 + 31:25
SAMPLE: CLP,VERSCOM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C730 BENZO(A)ANTHRACENE

DATA: T2629 #1885
CALI: T2629 #2

BASE M/Z: 228
RIC: 81408.

100278



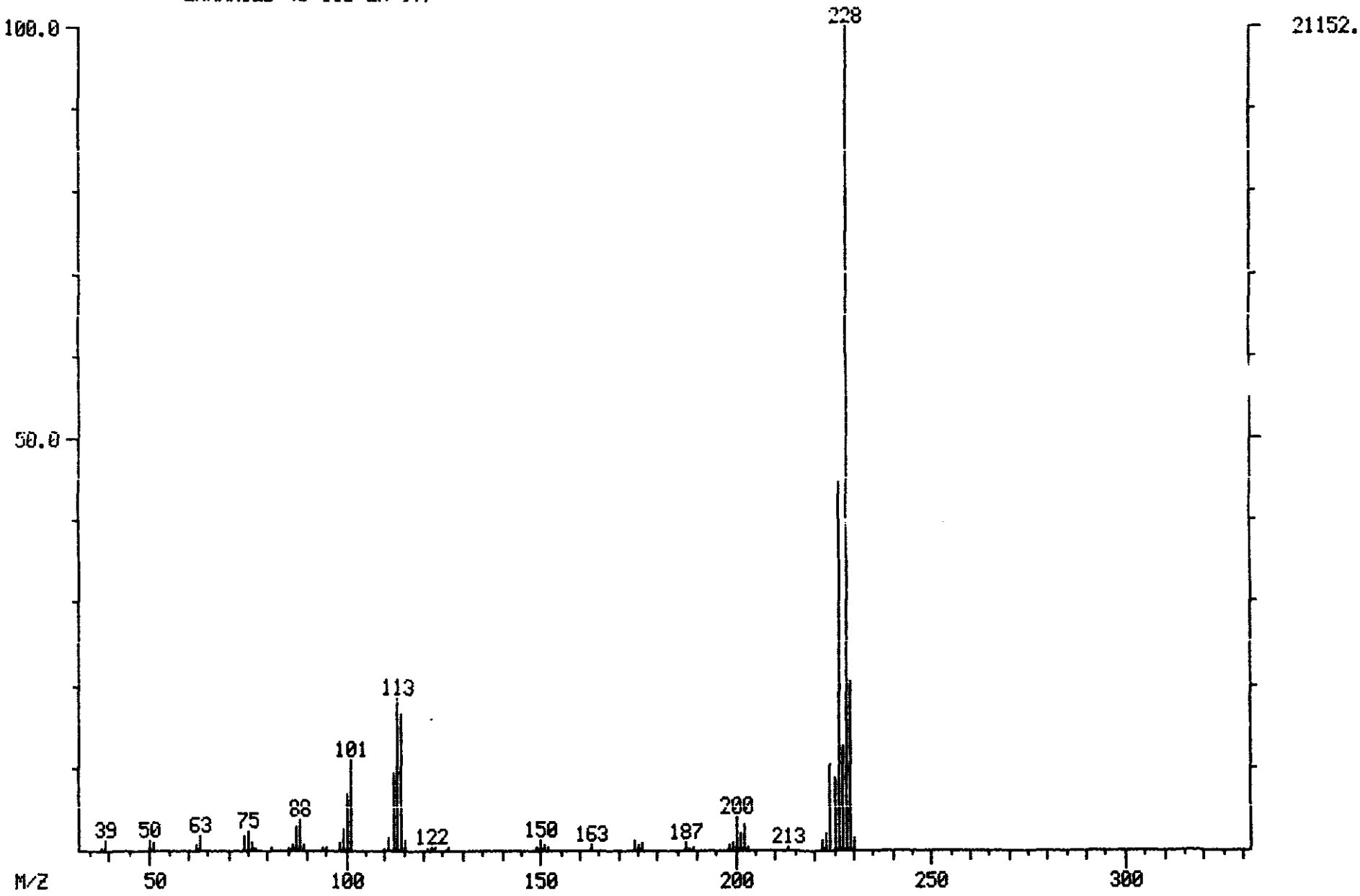
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:26:00 + 31:25
SAMPLE: CLP,VERSCOM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
** NAME: C730 BENZO(A)ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2629 #1885
CALI: T2629 #2

BASE M/Z: 228
RIC: 67564.

100279

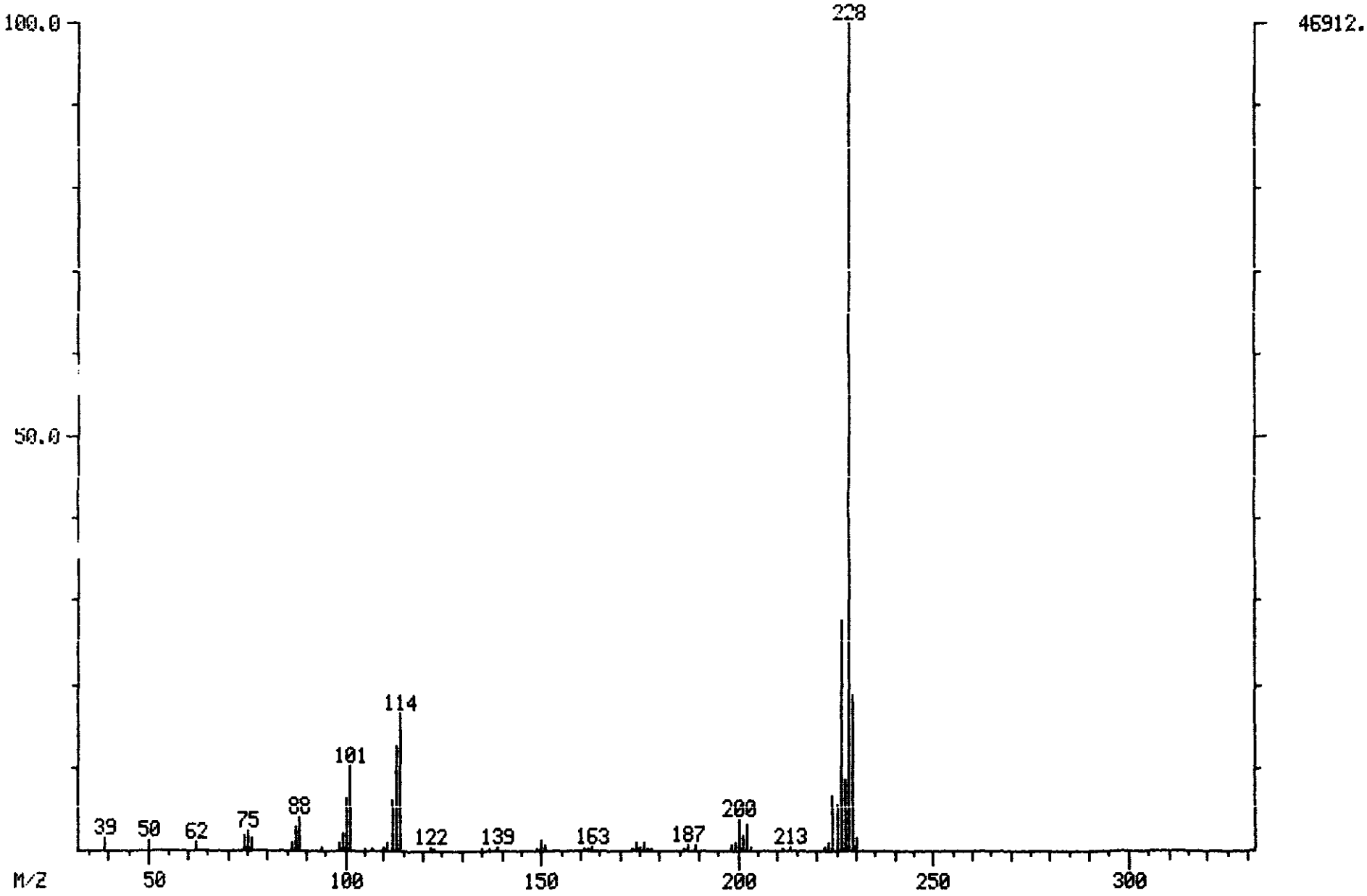


MASS SPECTRUM
05/16/90 17:01:00 + 31:24
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
** NAME: C720 BENZO(A)ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #1884
CALI: T2624 #2

BASE M/Z: 228
RIC: 126848.

100280

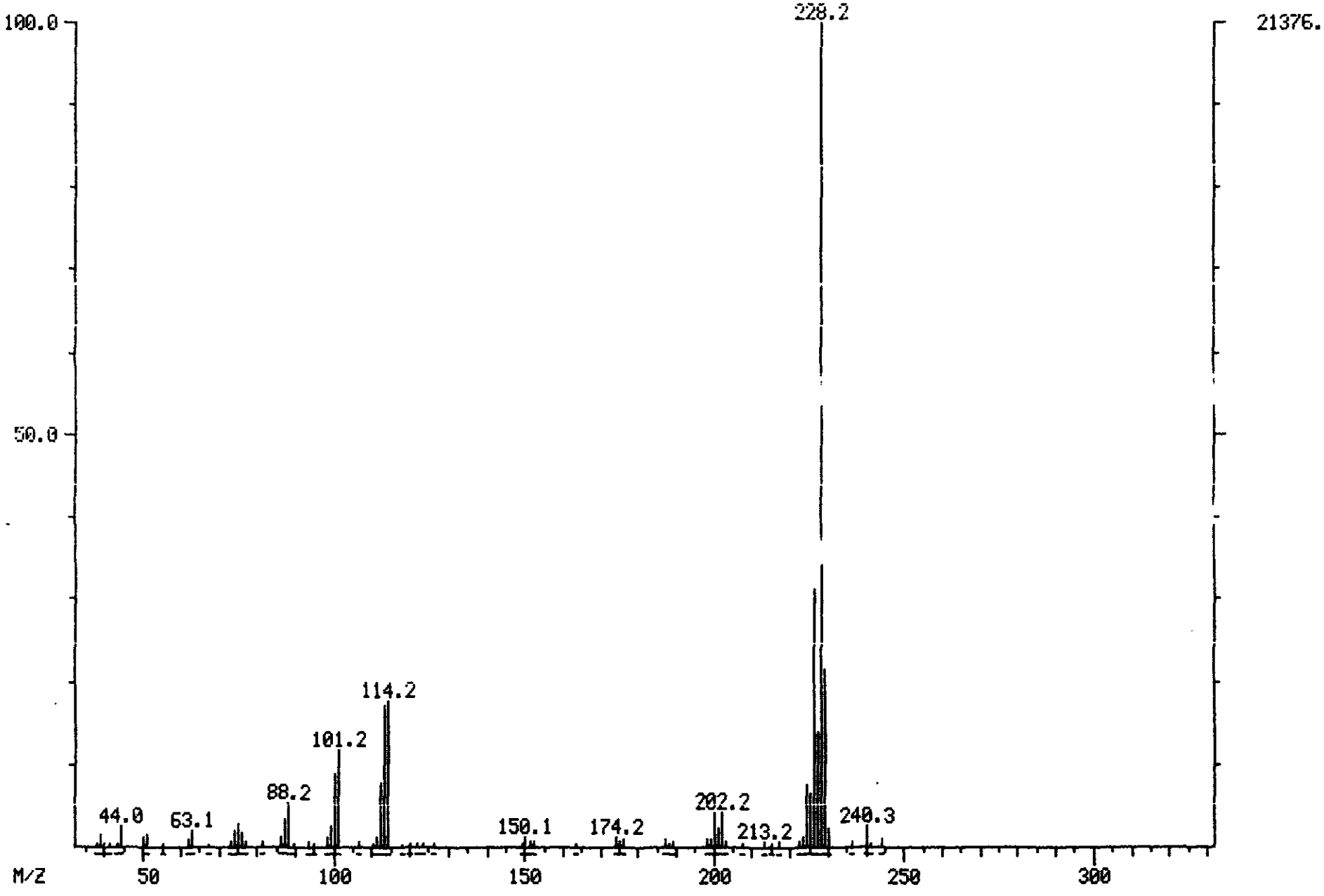


MASS SPECTRUM
05/16/90 22:26:00 + 31:33
SAMPLE: CLP,VERSCOM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C740 CHRYSENE

DATA: T2629 #1893
CALI: T2629 #2

BASE M/Z: 228
RIC: 69632.

100281



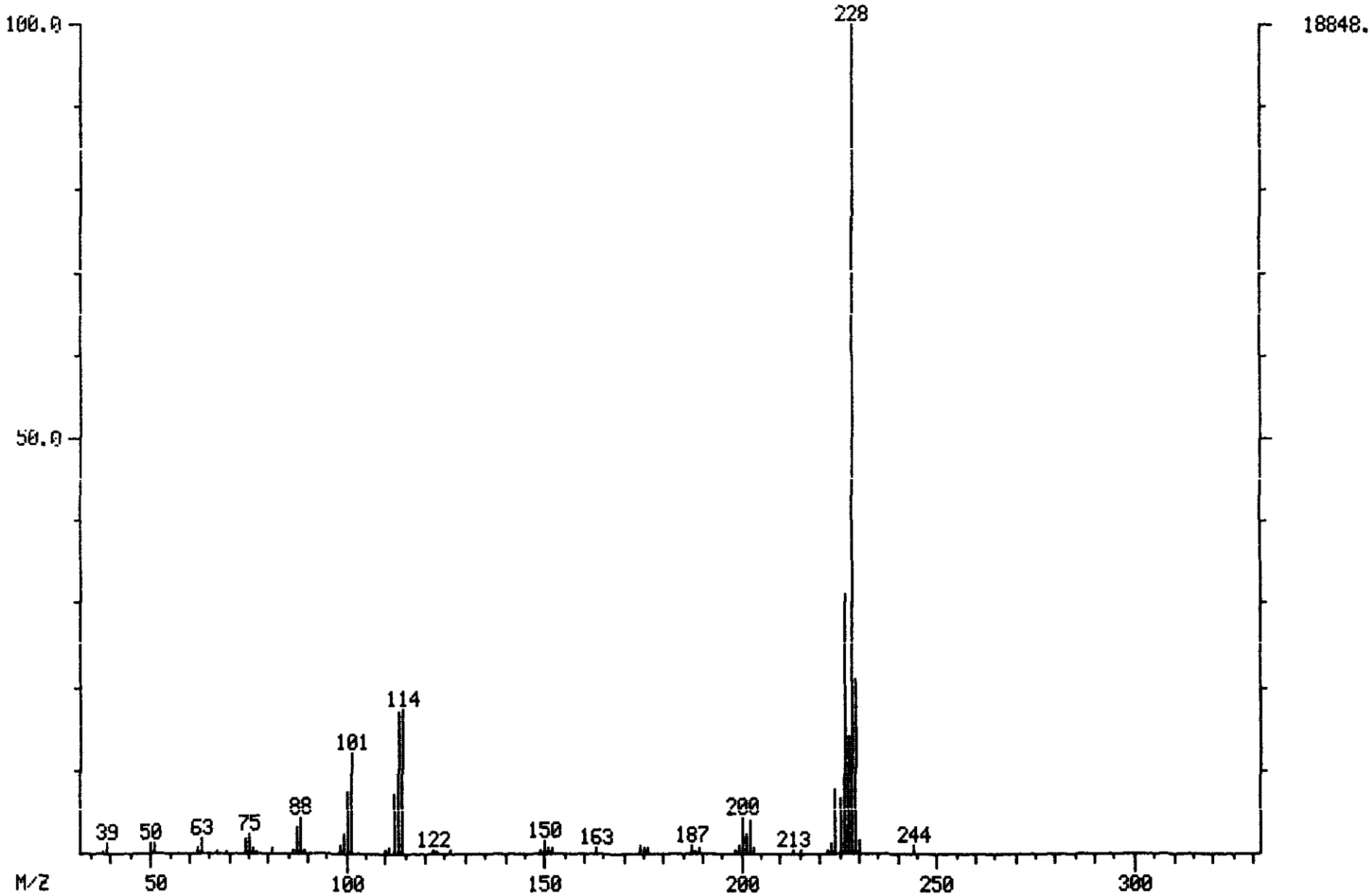
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:28:00 + 31:33
SAMPLE: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C740 CHRYSENE
ENHANCED (S 15B 2N 0T)

DATA: T2629 #1893
CALI: T2629 #2

BASE M/Z: 228
RIC: 56384.

100282



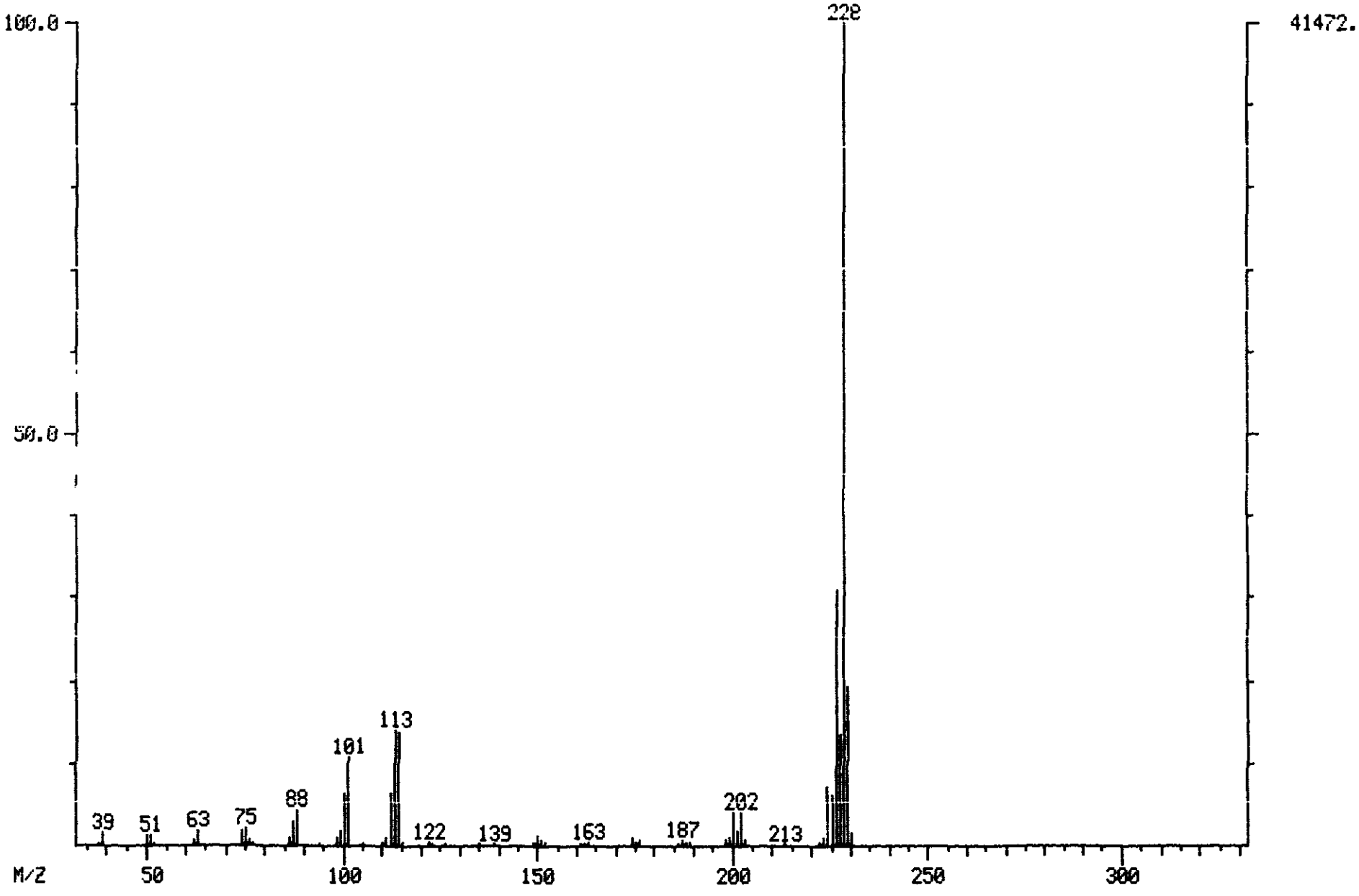
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 31:32
SAMPLE: CLP,,,SSTD50,,,22658,E,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C740 CHRYSENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #1892
CALI: T2624 #2

BASE M/Z: 228
RIC: 117632.

100283



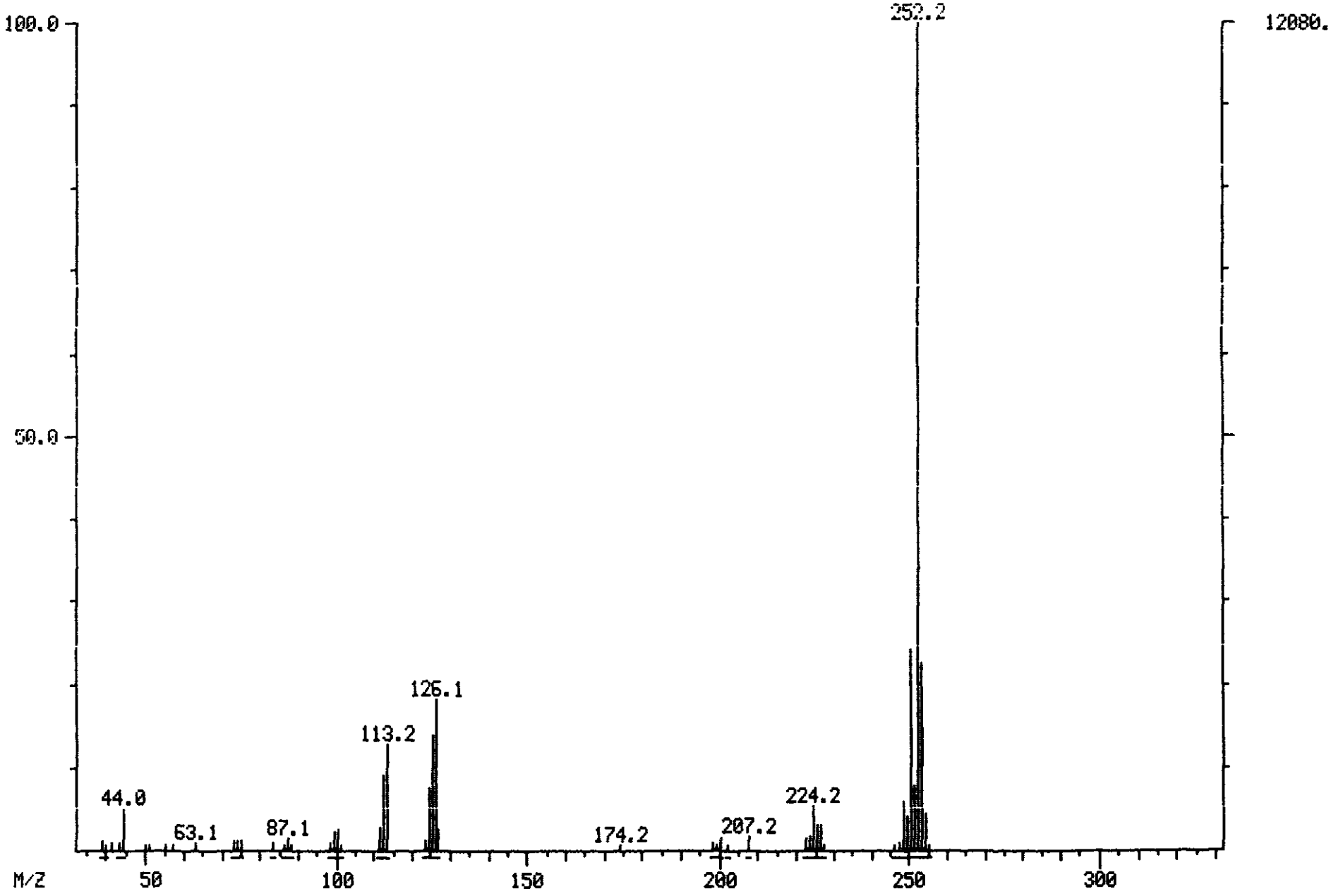
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:28:00 + 34:52
SAMPLE: CLP,VERSCOM,2565,11,M,S,16913,E,,420.1 G#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C765 BENZO(B)FLUORANTHENE

DATA: T2629 #2092
CALI: T2629 #2

BASE M/Z: 252
RIC: 35264.

100284



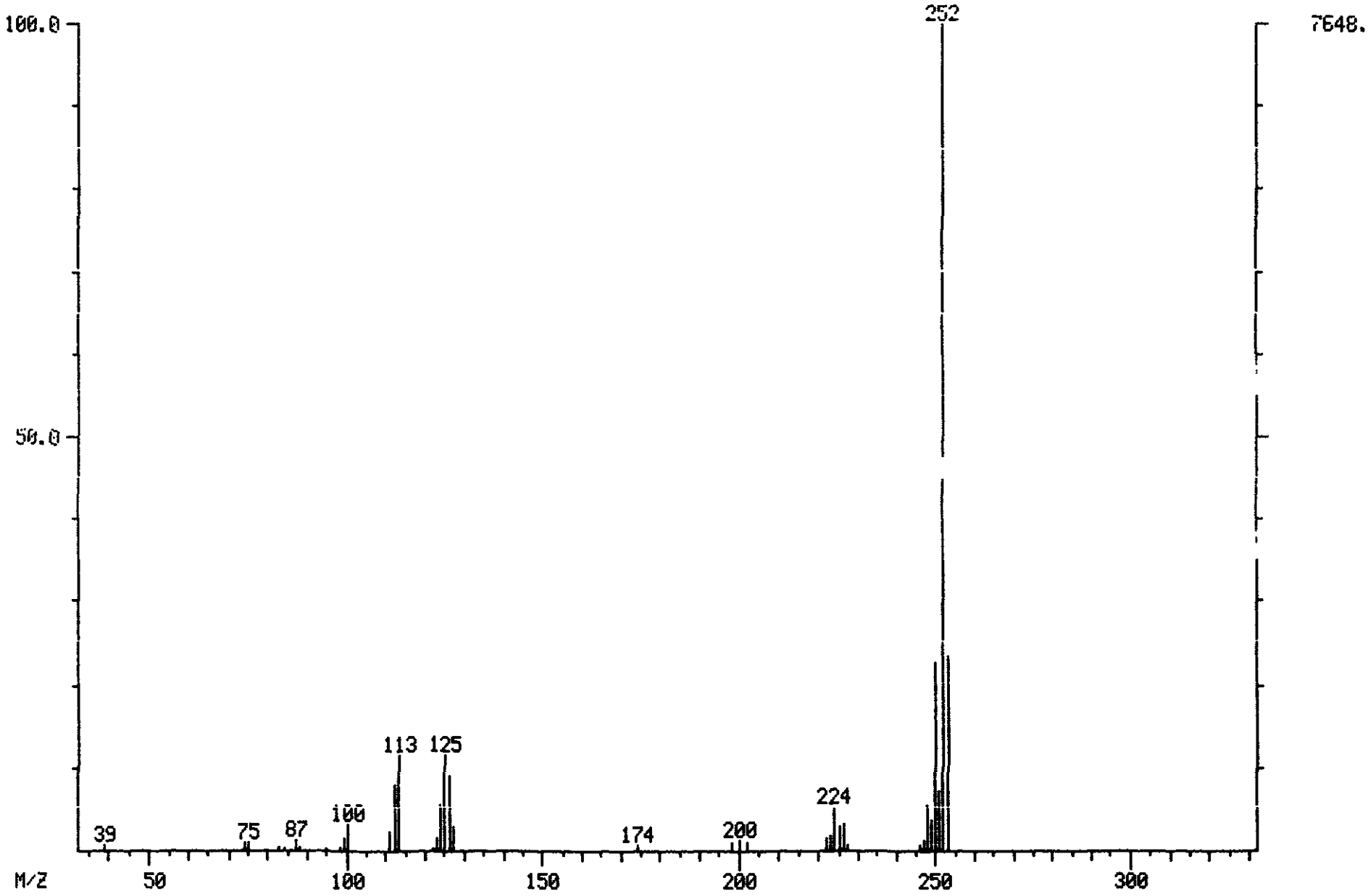
ORIGINAL (Red)

100285

MASS SPECTRUM
05/16/90 22:28:00 + 34:52
SAMPLE: CLP,VERSCOM,2565,11,M,S,16913.B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C765 BENZO(B)FLUORANTHENE
ENHANCED (5 15B 2N 0T)

DATA: T2629 #2092
CALI: T2629 #2

BASE M/Z: 252
RIC: 19168.



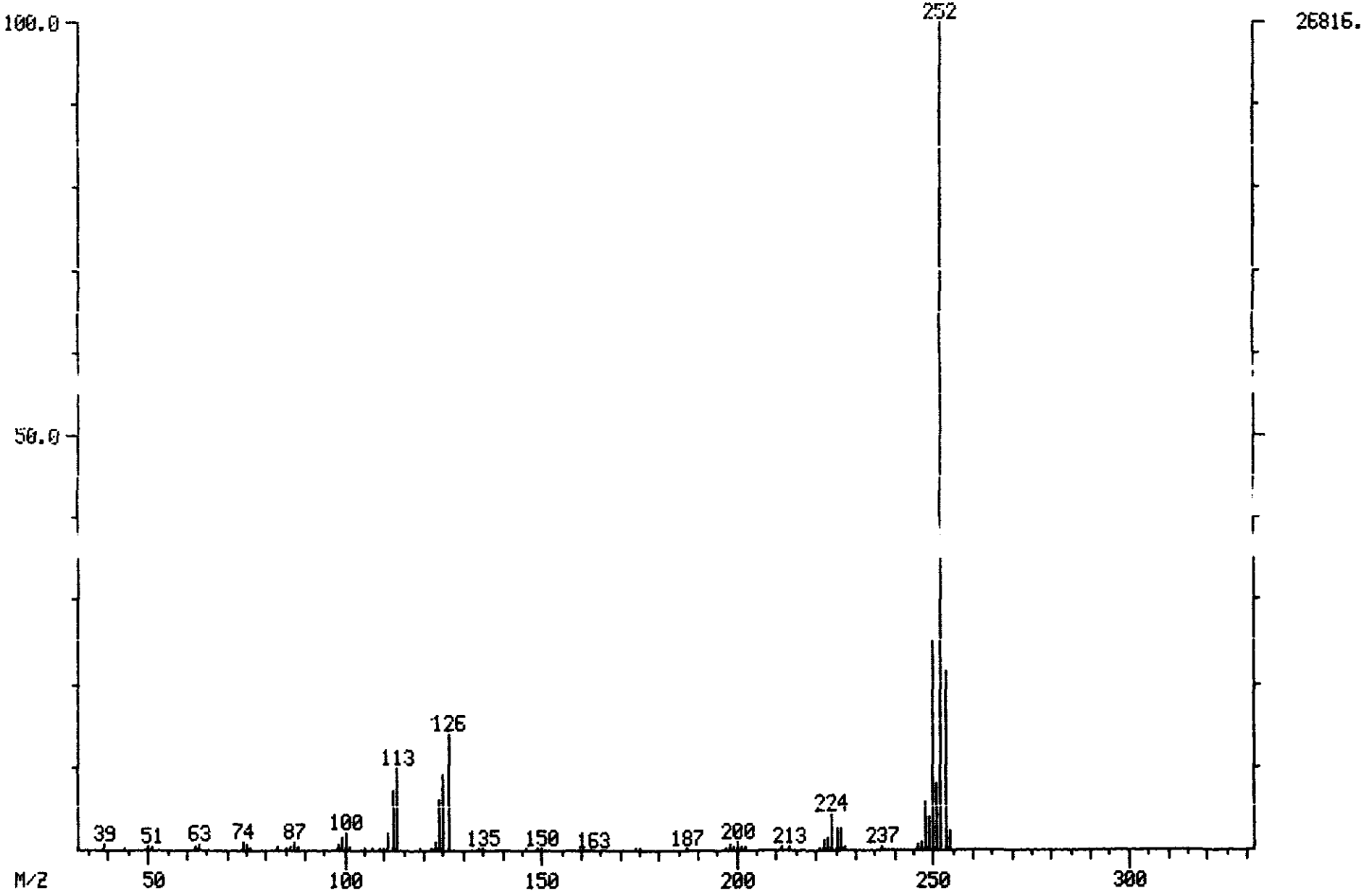
ORIGINAL (Red)

100286

MASS SPECTRUM
05/16/90 17:01:00 + 34:56
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
** NAME: C765 BENZO(B)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #2093
CALI: T2624 #2

BASE M/Z: 252
RIC: 66864.



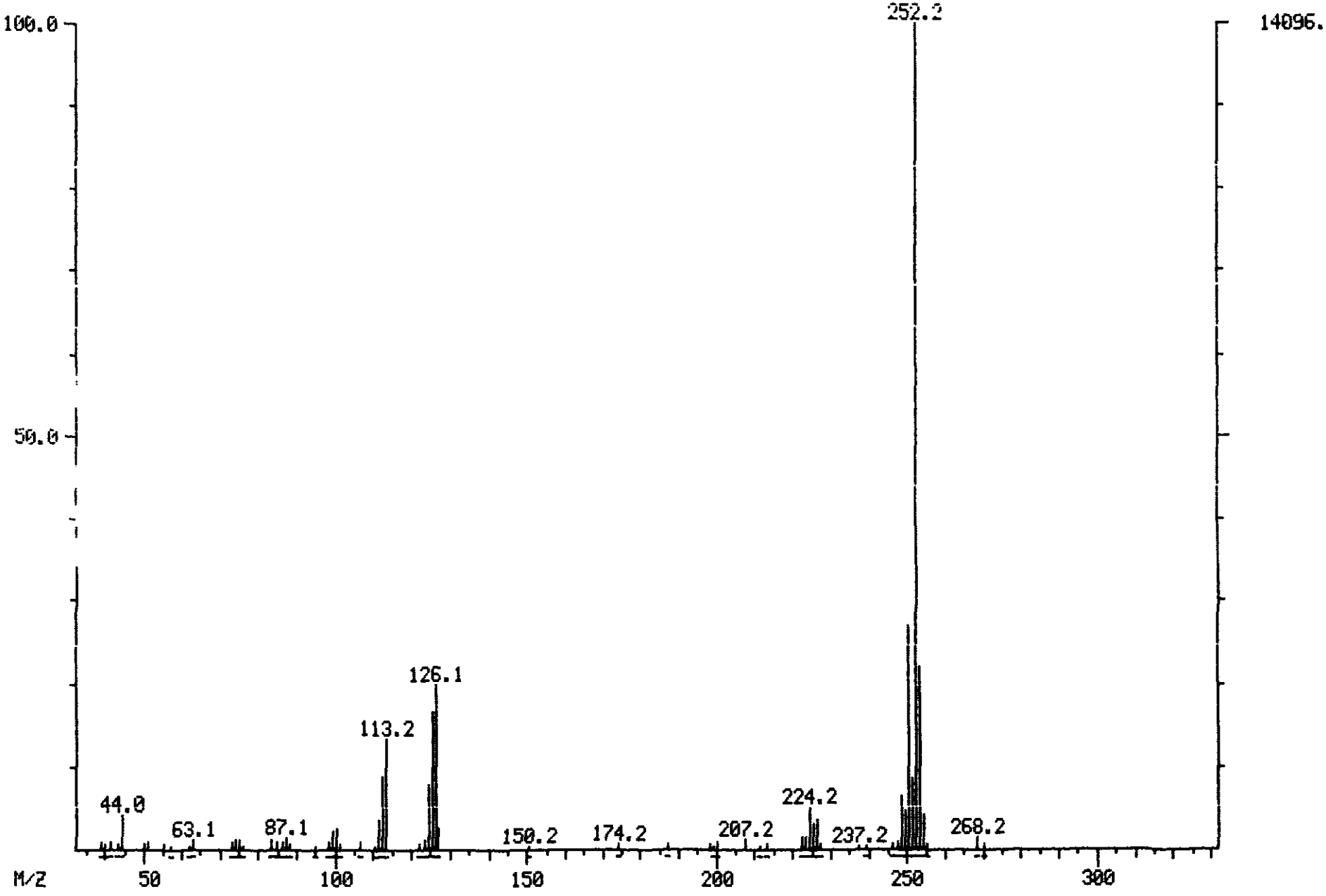
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:28:00 + 34:57
SAMPLE: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C770 BENZO(K)FLUORANTHENE

DATA: T2629 #2097
CALI: T2629 #2

BASE M/Z: 252
RIC: 44096.

100287

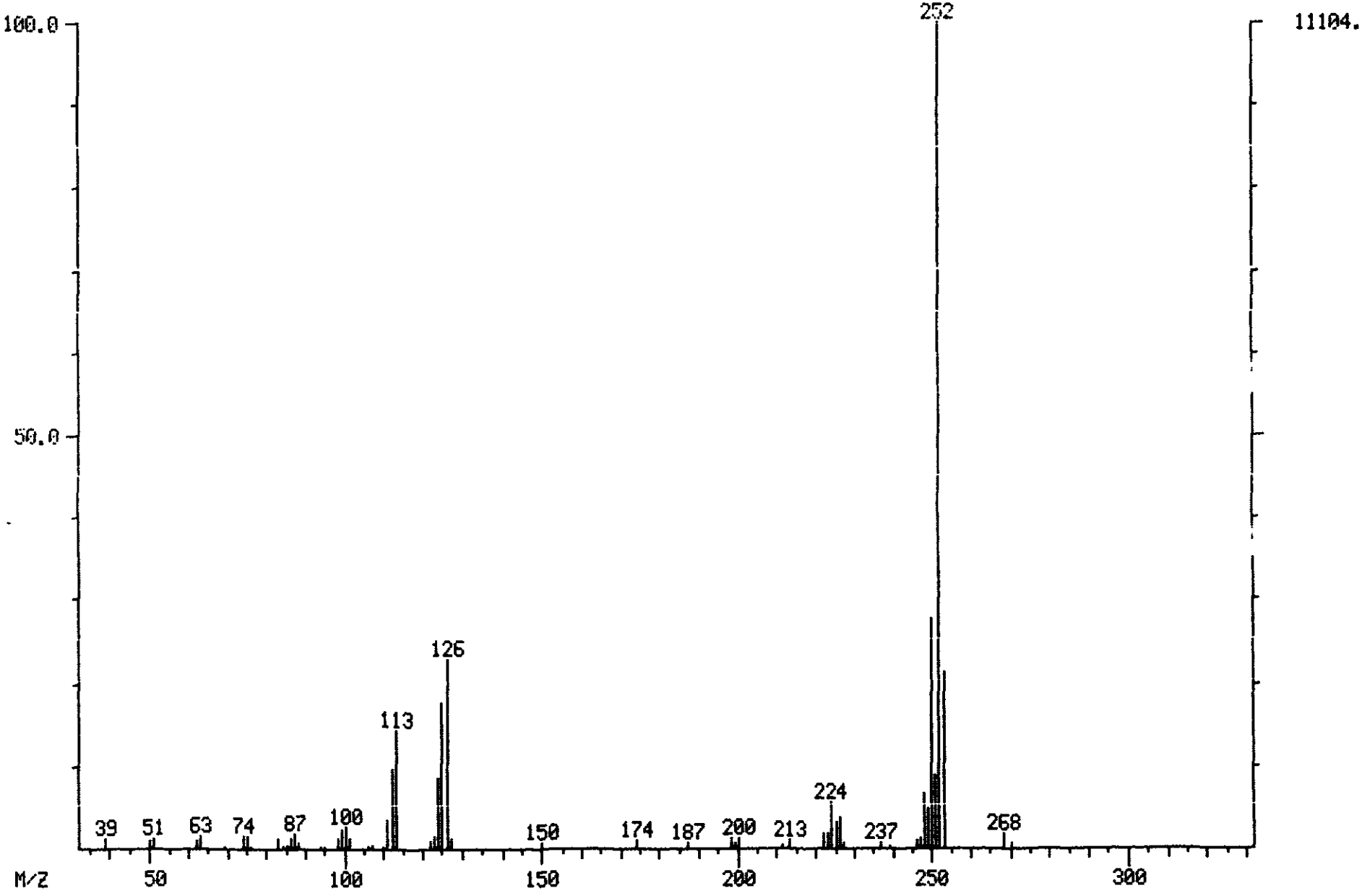


ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:28:00 + 34:57
SAMPLE. CLP,VEPSCOM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 302080C/MIN
** NAME: C770 BENZO(K)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2629 #2097
CALI: T2629 #2

BASE M/Z: 252
RIC: 34368.



100288

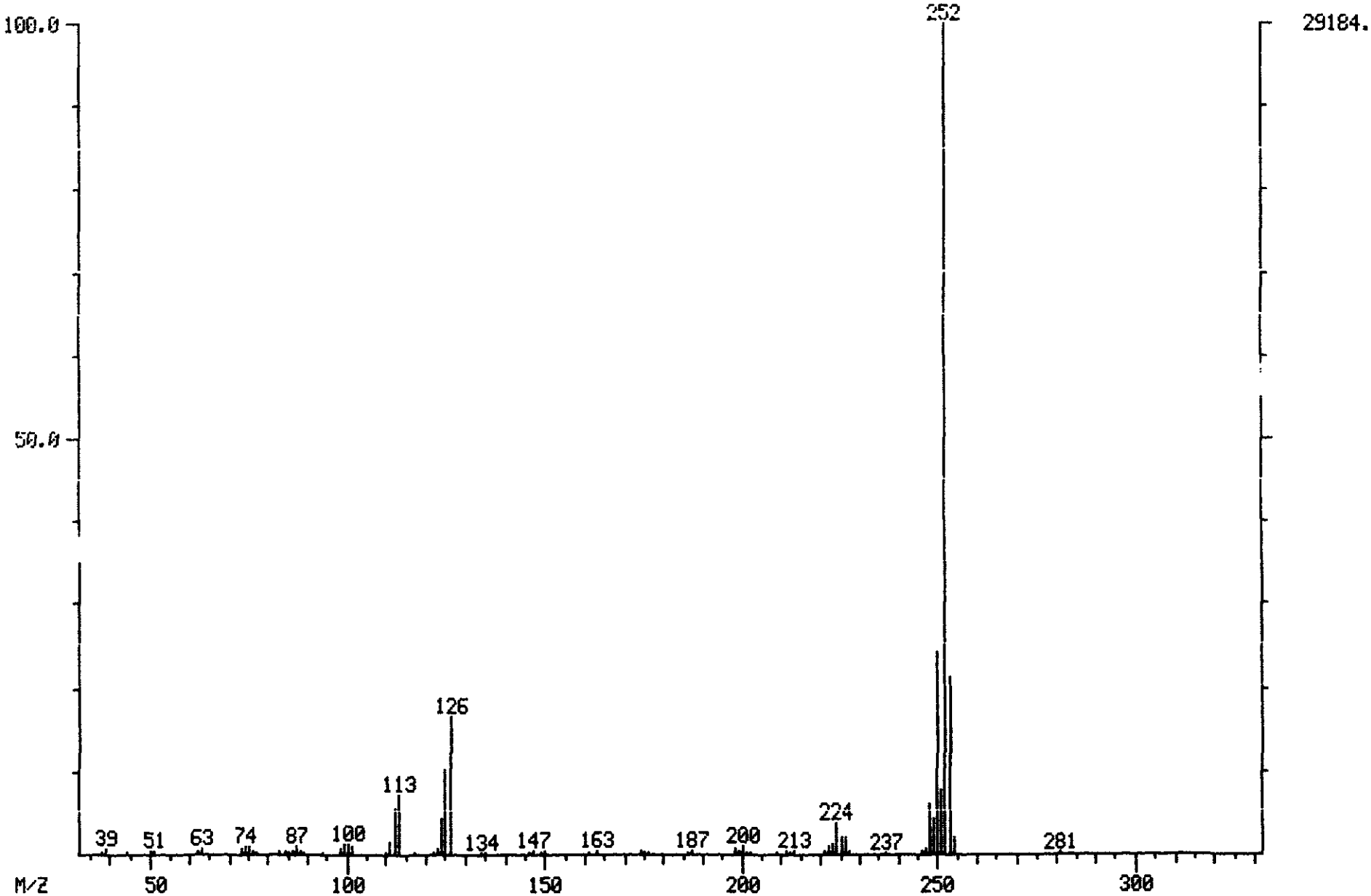
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 34:56
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 302C8C/MIN
** NAME: C770 BENZO(K)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #2098
CALI: T2624 #2

BASE M/Z: 252
RIC: 73656.

100229

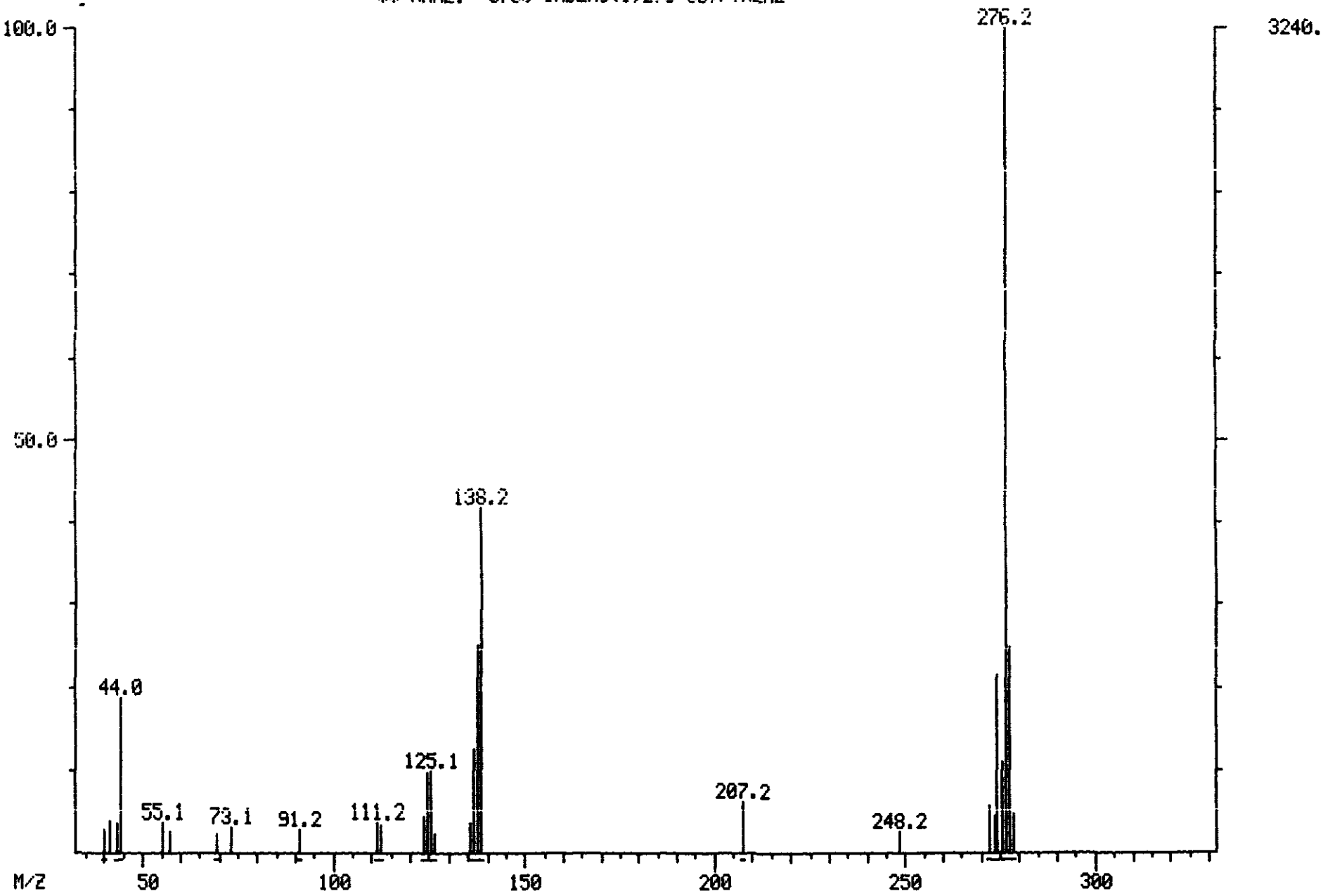


ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:28:00 + 42:10
SAMPLE: CLP,VERSCOM,2565,11,M,5,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C7H8 INDENO(1,2,3-CD)PYRENE

DATA: T2629 #2530
CALI: T2629 #2

BASE M/Z: 276
RIC: 11152.



100220

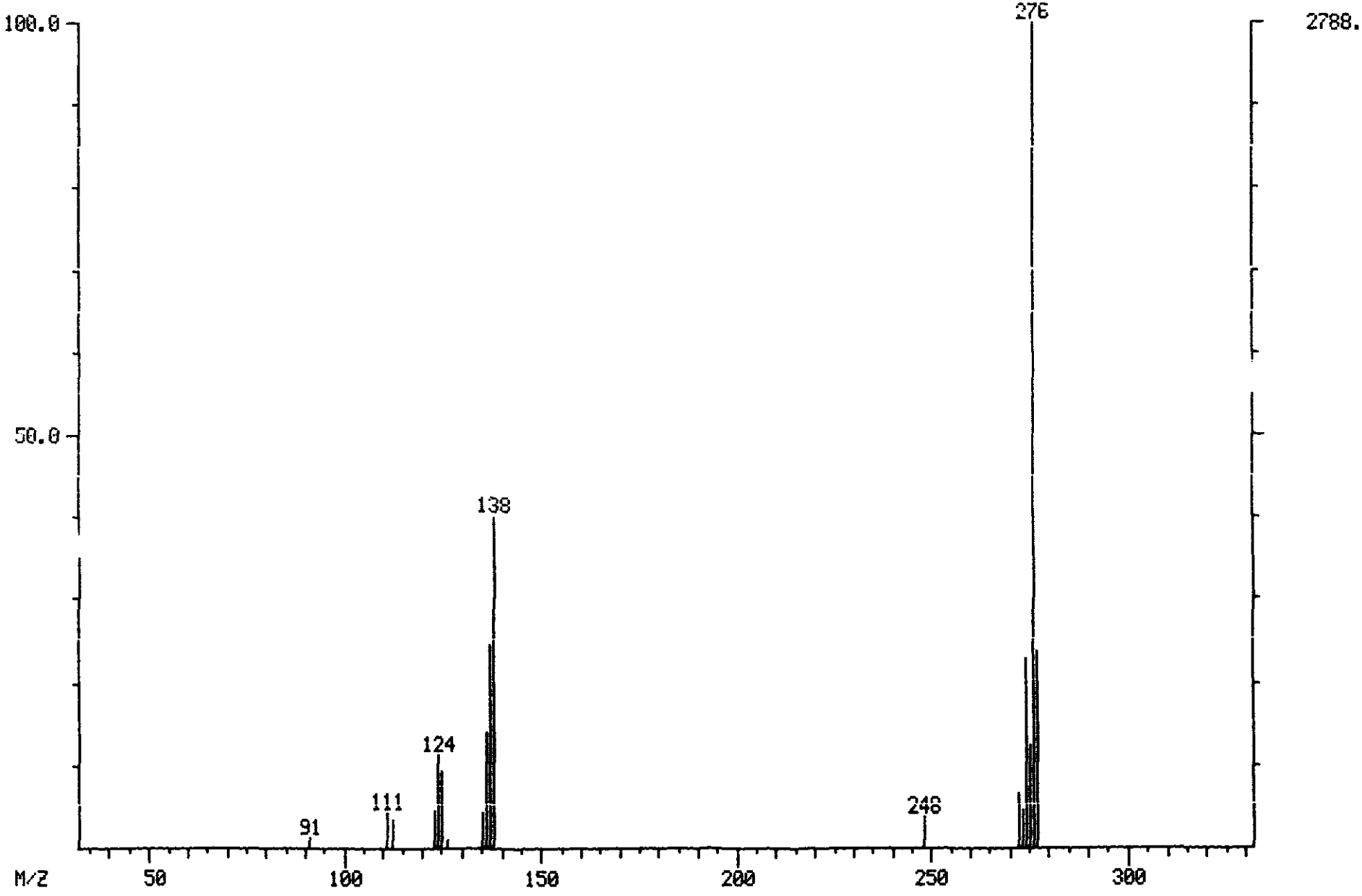
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:28:00 + 42:10
SAMPLE: CLP,VERSCOM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C730 INDENO(1,2,3-CD)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2629 #2530
CALI: T2629 #2

BASE M/Z: 276
RIC: 8184.

100291



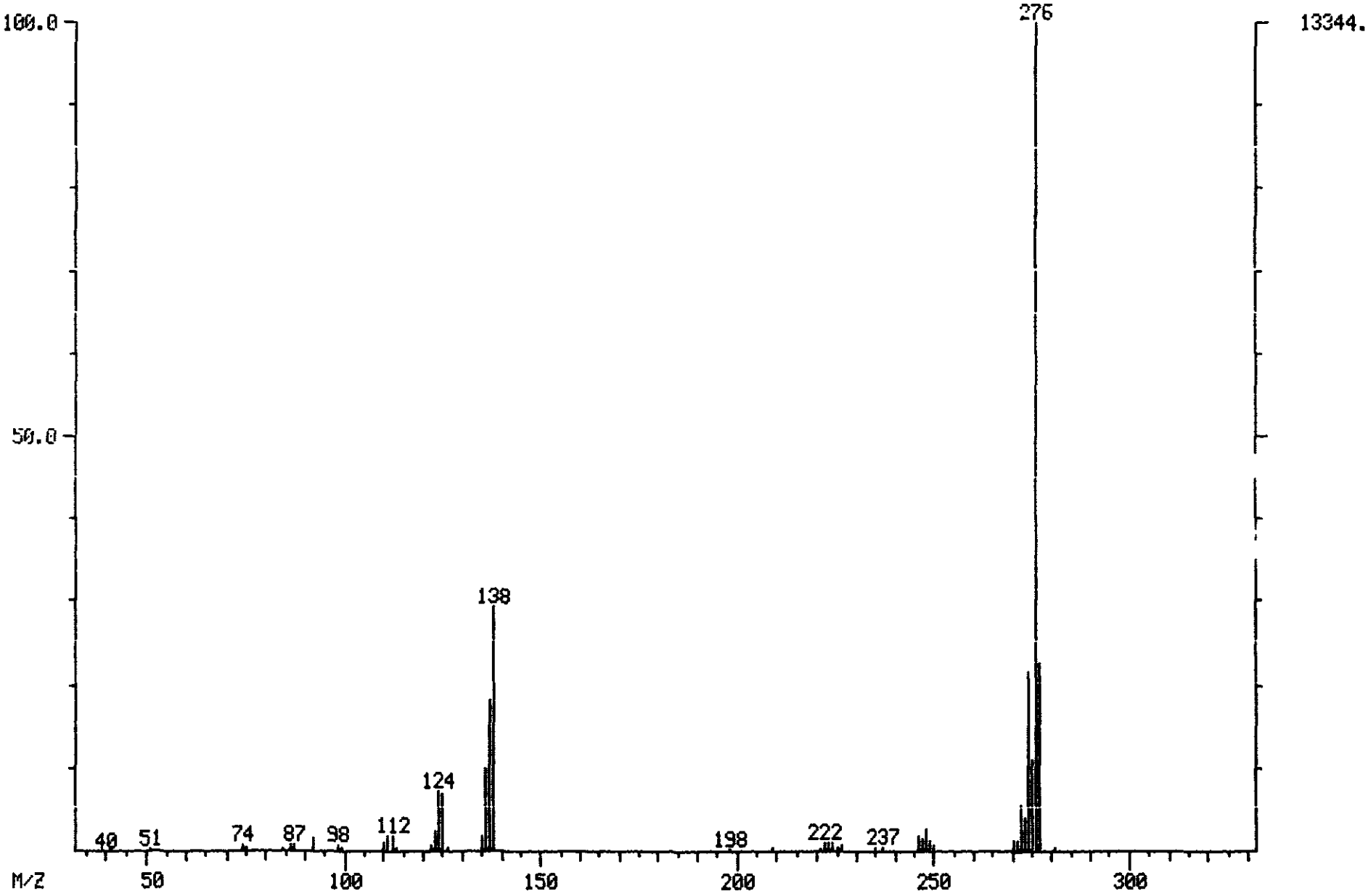
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 42:13
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C780 INDENO(1,2,3-CD)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #2533
CALI: T2624 #2

BASE M/Z: 276
RIC: 36672.

100292



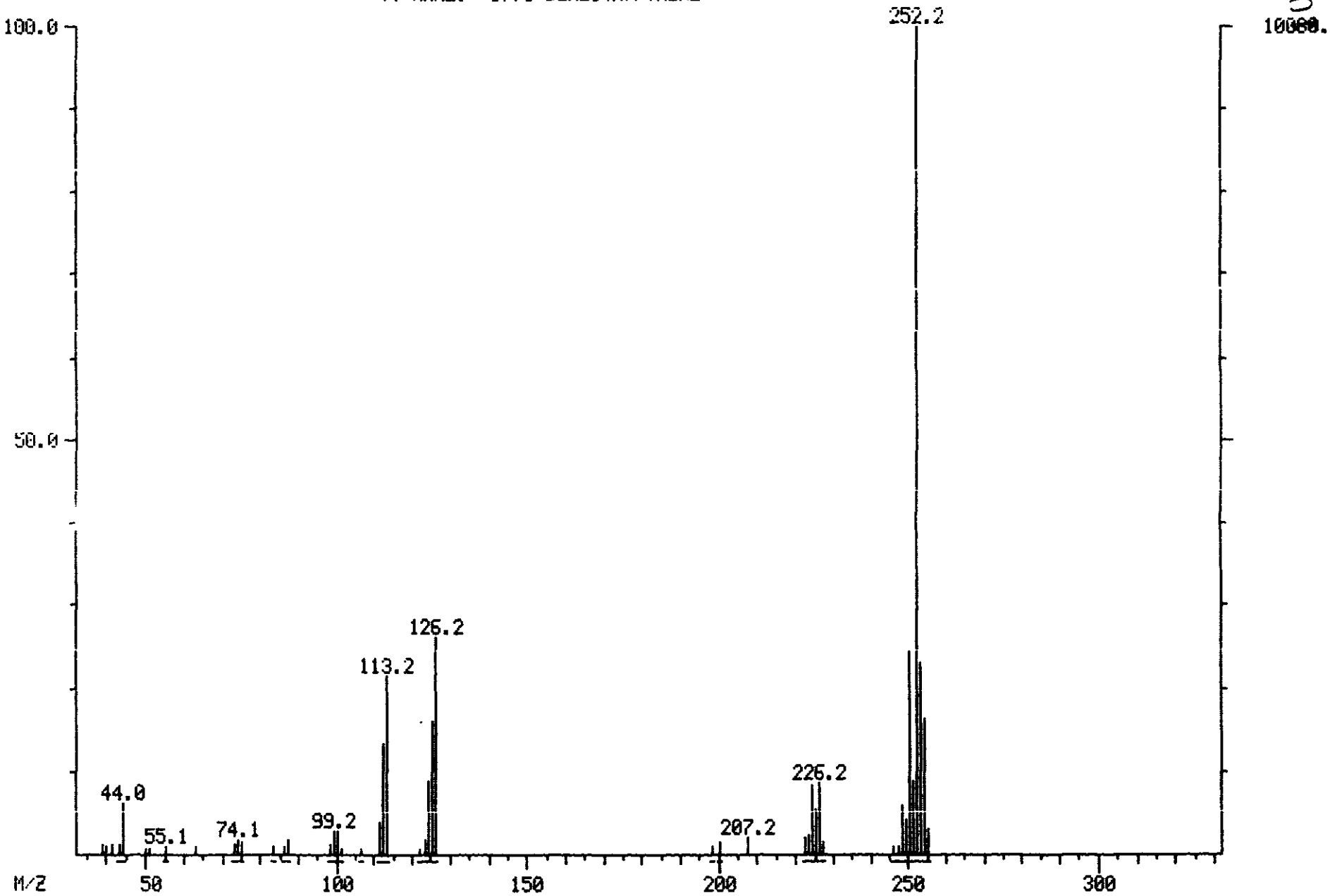
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:28:00 + 36:11
SAMPLE: CLP,VERSCDM,2565,11,M,S,16913,P,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@3SC TO 302@8C/MIN
** NAME: C775 BENZO(A)PYRENE

DATA: T2629 #2171
CALI: T2629 #2

BASE M/Z: 252
RIC: 35006.

00293



ORIGINAL (Red)

MASS SPECTRUM
05/16/90 22:28:00 + 36:11
SAMPLE: CLP,VEPSCOM,2565,11,M,5,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C775 BENZO(A)PYRENE
ENHANCED (5 15B 2N 0T)

DATA: T2629 #2171
CALI: T2629 #2

BASE M/Z: 252
RIC: 32416.

100.0
50.0
9712.

252
126
113
226
39 51 63 74 87 100 200

M/Z 50 100 150 200 250 300

100234

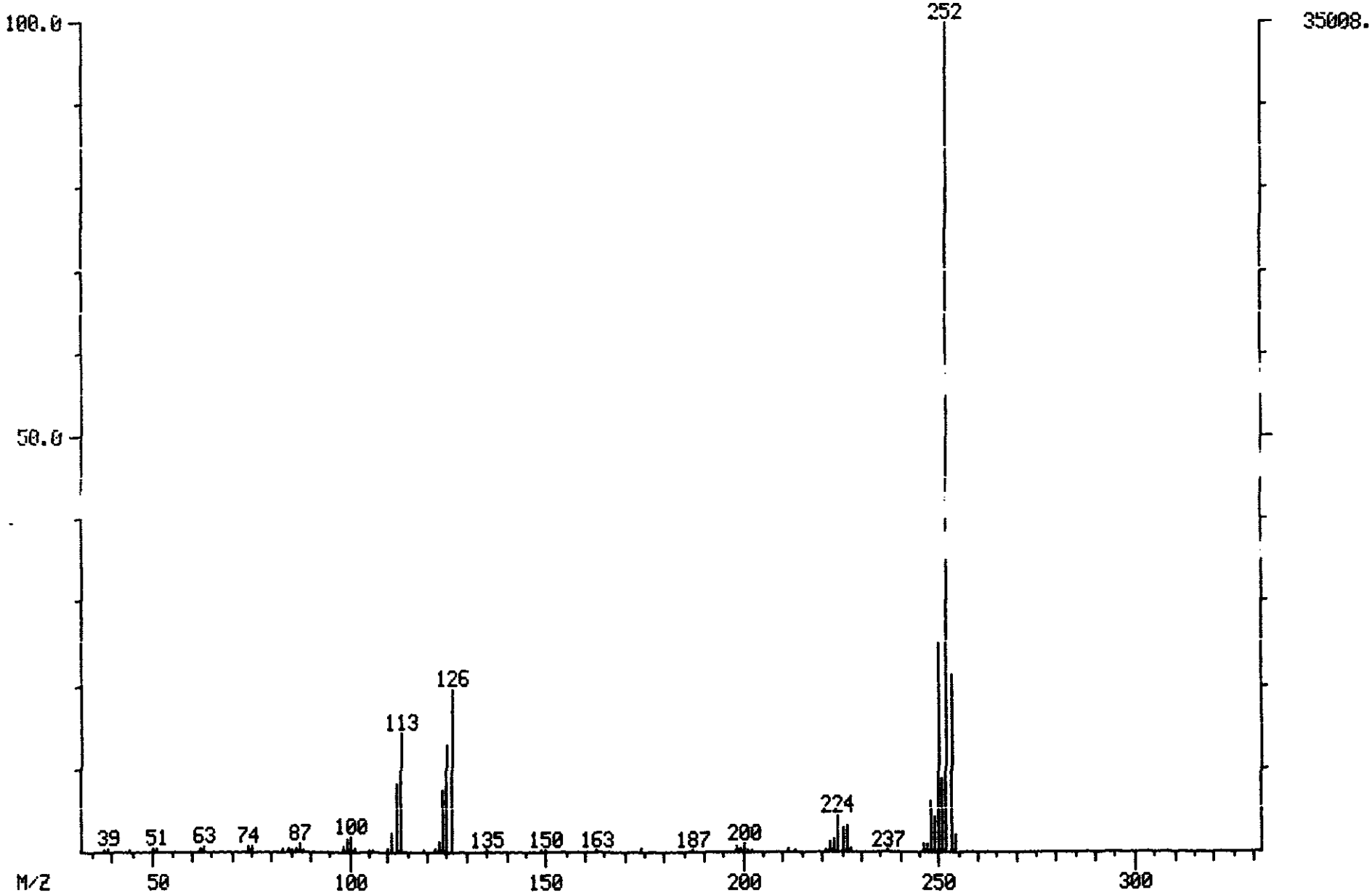
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 36:11
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C775 BENZO(A)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #2171
CALI: T2624 #2

BASE M/Z: 252
RIC: 95616.

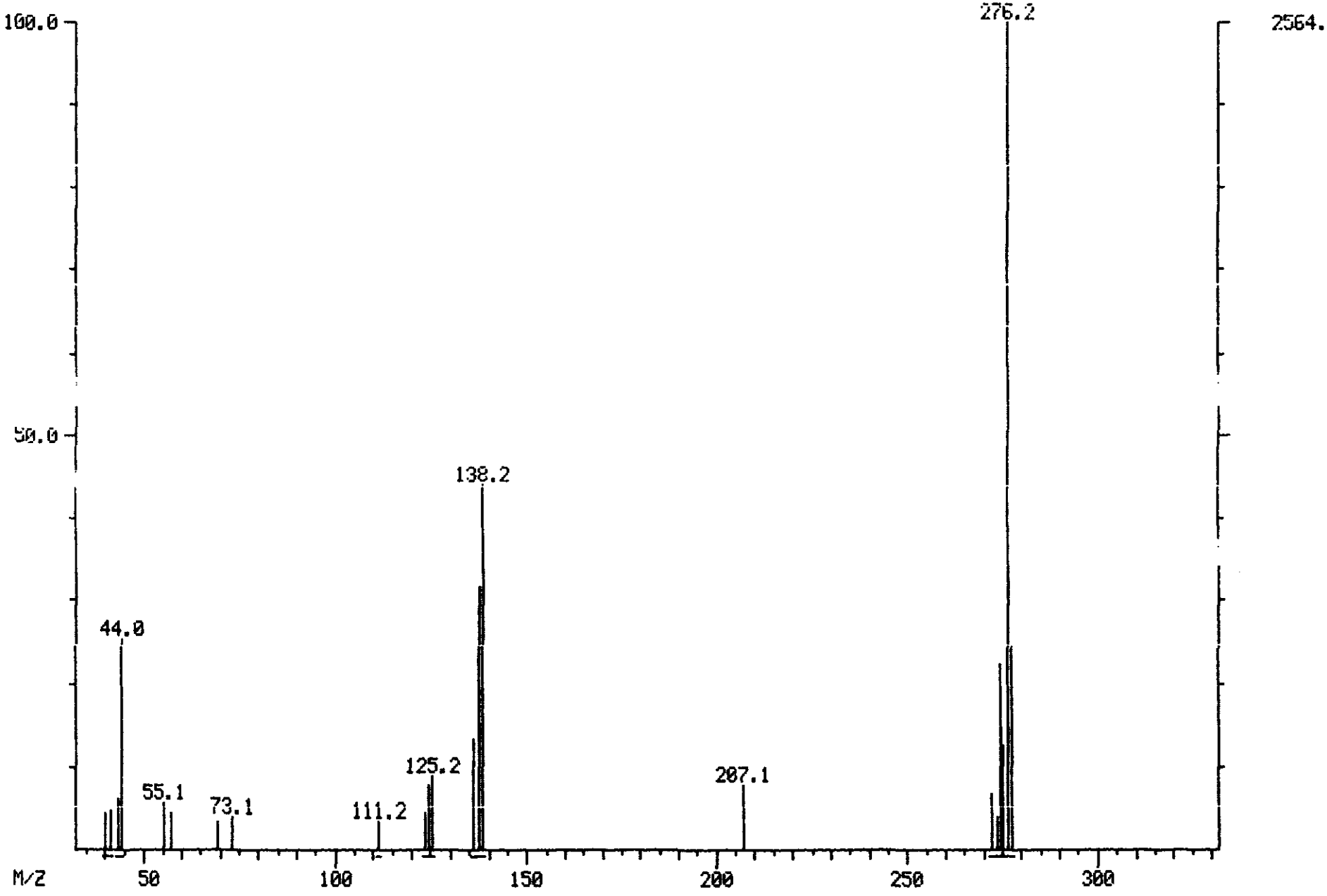
100295



MASS SPECTRUM
05/16/90 22:28:00 + 43:54
SAMPLE: CLP,VERSCOM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C790 BENZO(G,H,I)PERYLENE

DATA: T2629 #2634
CALI: T2629 #2

BASE M/Z: 276
RIC: 8992.



100266

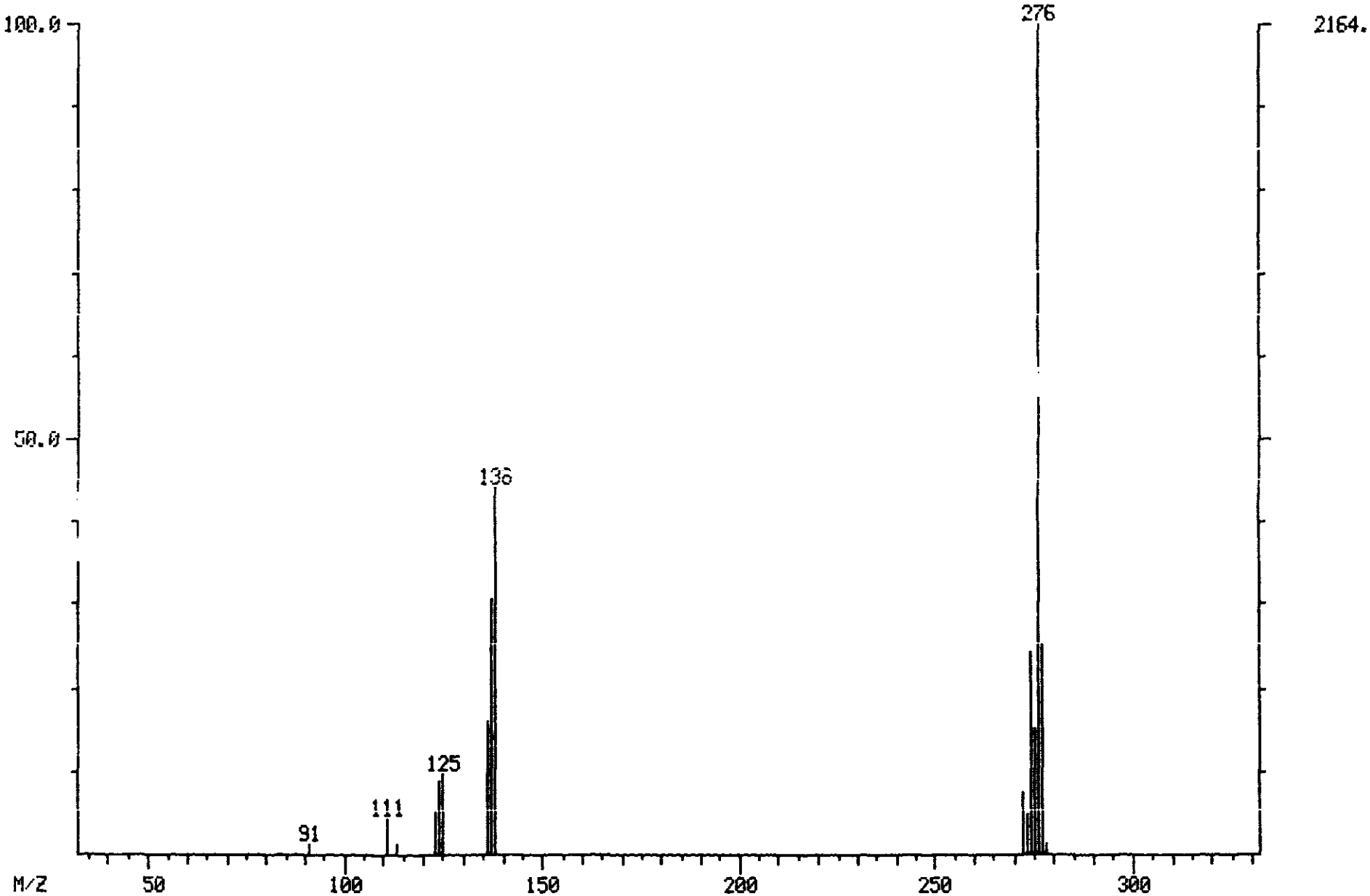
ORIGINAL (Red)

100297

MASS SPECTRUM
05/16/90 22:28:00 + 43:54
SAMPLE: CLP,VERSCOM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C790 BENZO(G,H,I)PERYLENE
ENHANCED (S 15B 2N 0T)

DATA: T2629 #2634
CALI: T2629 #2

BASE M/Z: 276
RIC: 6504.



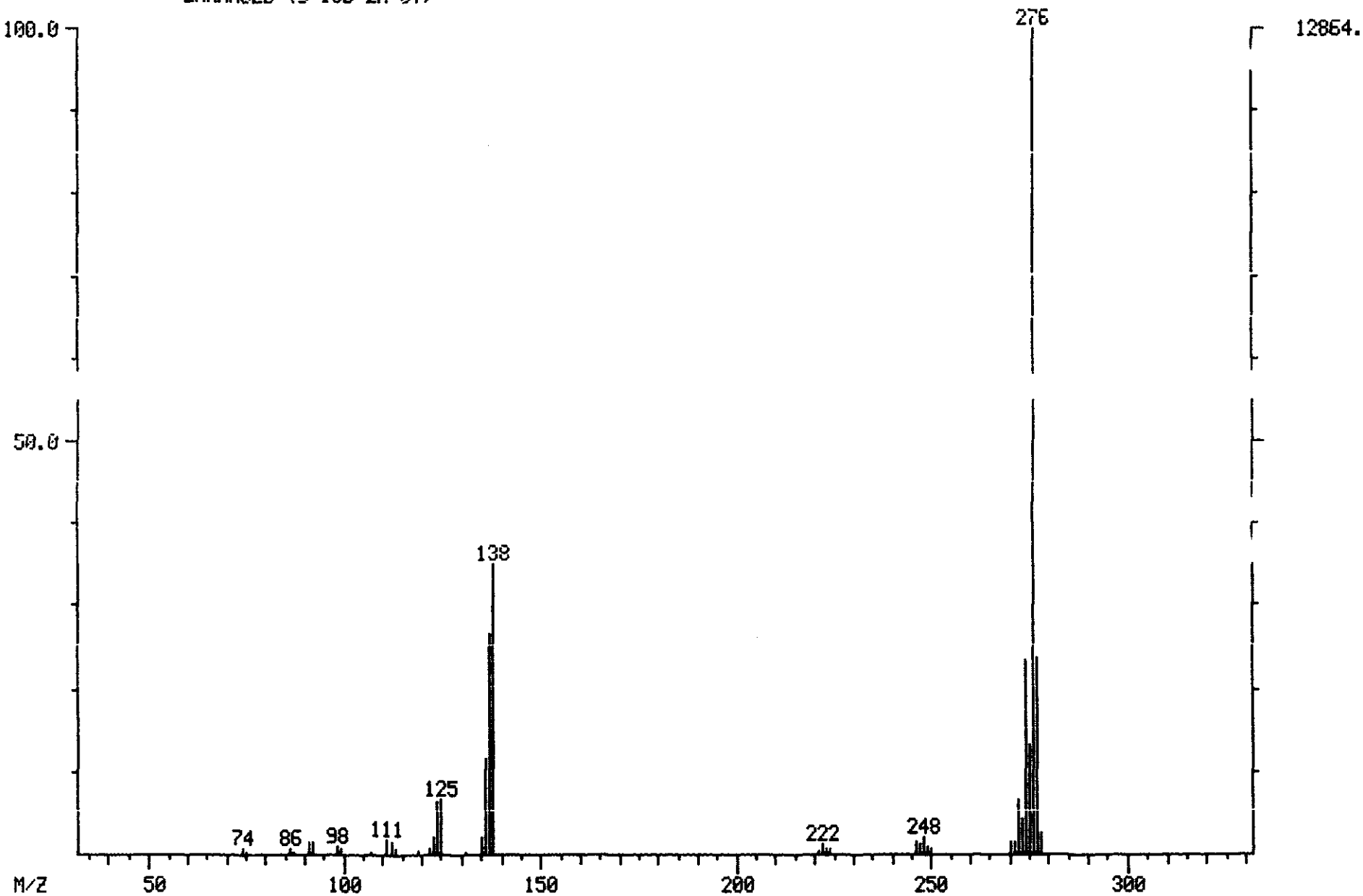
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 44:00
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C790 BENZO(G,H,I)PERYLENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #2640
CALI: T2624 #2

BASE M/Z: 276
RIC: 37696.

10C298



Library Search Data: T2629 #1419 Base m/z: 167
05/16/90 22:28:00 + 23:39 Cali: T2629 # 2 RIC: 10695.
Sample: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
58 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	10813	5H-INDENO[1,2-B]PYRIDINE
2	10811	9H-CARBAZOLE
3	15885	9H-CARBAZOLE, 9-NITROSO
4	34233	D-GALACTITOL, 2-(ACETYLMETHYLAMINO)-2-DEOXY-3,4,6-TRI O-METHYL-, 1,*
5	15662	1,1'-BIPHENYL, 2-AZIDO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H9.N	167	167	859	991	859
2	C12.H9.N	167	167	851	914	914
3	C12.H8.O.N2	196	167	846	943	894
4	C16.H29.O8.N	363	167	836	958	858
5	C12.H9.N3	195	167	799	930	857

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	244-99-5
2	—	—	—	—	86-74-8
3	—	—	—	—	2788-23-0
4	—	—	—	—	74410-42-7
5	—	—	—	—	7599-23-7

✓

100299

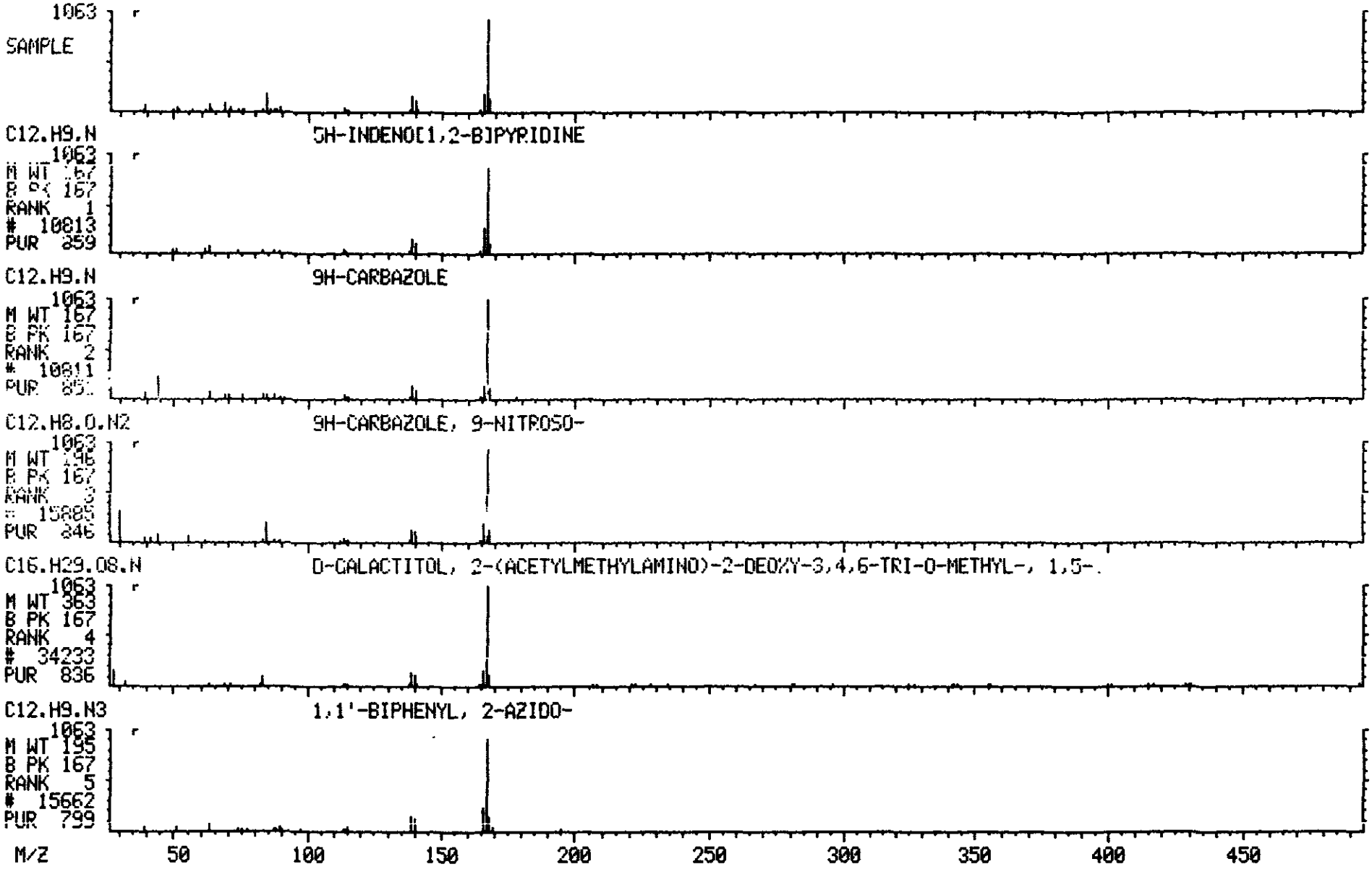
ORIGINAL (Red)

LIBRARY SEARCH
05/16/90 22:28:00 + 23:39
SAMPLE: CLP,VERSCOM,2565,11,M,S,16912,P,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15P 2N 0T)

DATA: T2629 #1419
CALI: T2629 # 2

BASE M/Z: 167
RIC: 10895.

100300



Library Search Data: T2629 #1493 Base m/z: 190
05/16/90 22:28:00 + 24:53 Cali: T2629 # 2 RIC: 13535.
Sample: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
59 matched at least 5 of the 16 largest peaks in the unknown

Pah

Rank	In.	Name
1	15139	PHENANTHRENE, 4-METHYL-
2	14848	4H-CYCLOPENTA[DEF]PHENANTHRENE
3	15137	ANTHRACENE, 2-METHYL-
4	15136	ANTHRACENE, 1-METHYL-
5	15141	PHENANTHRENE, 3-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H12	192	192	702	744	731
2	C15.H10	190	190	699	783	733
3	C15.H12	192	192	658	702	670
4	C15.H12	192	192	657	707	681
5	C15.H12	192	192	644	677	647

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	832-64-4
2	—	—	—	—	203-64-5
3	—	—	—	—	613-12-7
4	—	—	—	—	610-48-0
5	—	—	—	—	832-71-3

√

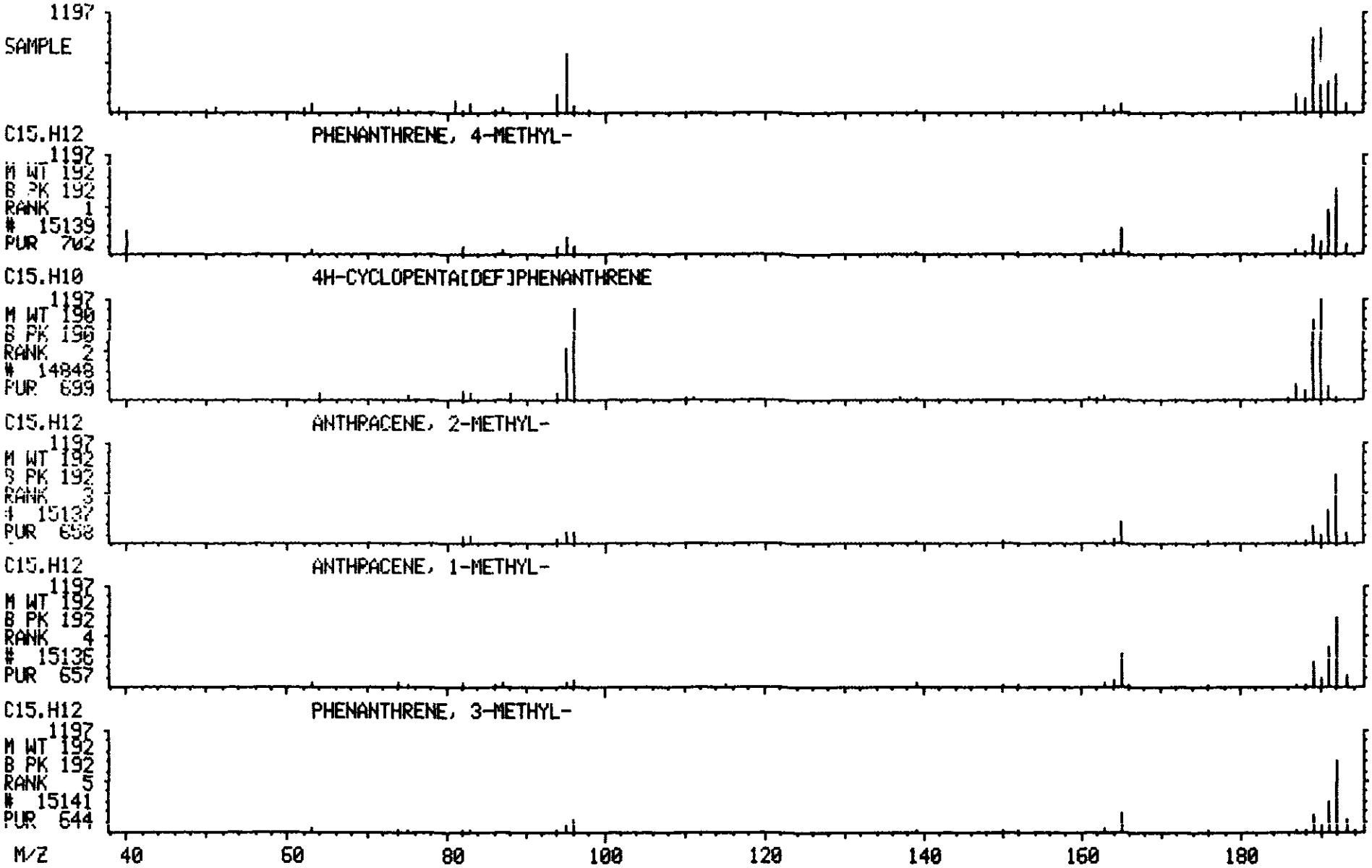
ORIGINAL (Red)

LIBRARY SEARCH
05/16/90 22:28:00 + 24:53
SAMPLE. CLP,VERSCOM,2565,11,M,S,16912,6,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2629 #1493
CALI: T2629 # 2

BASE M/Z: 190
RIC: 13535.

100302



Library Search Data: T2629 #1627 Base m/z: 202
05/16/90 22:28:00 + 27:07 Cali: T2629 # 2 RIC: 16767.
Sample: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL

42223 spectra in LIBRARYNB searched for maximum PURITY
149 matched at least 4 of the 16 largest peaks in the unknown

Dah

Rank	In.	Name
1	16889	FLUORANTHENE
2	16888	PYRENE
3	16890	BENZENE, 1,1'-(1,3-BUTADIYNE-1,4-DIYL)BIS-
4	17253	2,3-DIHYDROFLUORANTHENE
5	17254	3,10B-DIHYDROFLUORANTHENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H10	202	202	960	975	977
2	C16.H10	202	202	952	975	969
3	C16.H10	202	202	900	933	952
4	C16.H12	204	202	671	774	811
5	C16.H12	204	202	652	779	772

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	206-44-0
2	—	—	—	—	129-00-0
3	—	—	—	—	886-66-8
4	—	—	—	—	30339-87-8
5	—	—	—	—	37980-07-7

✓

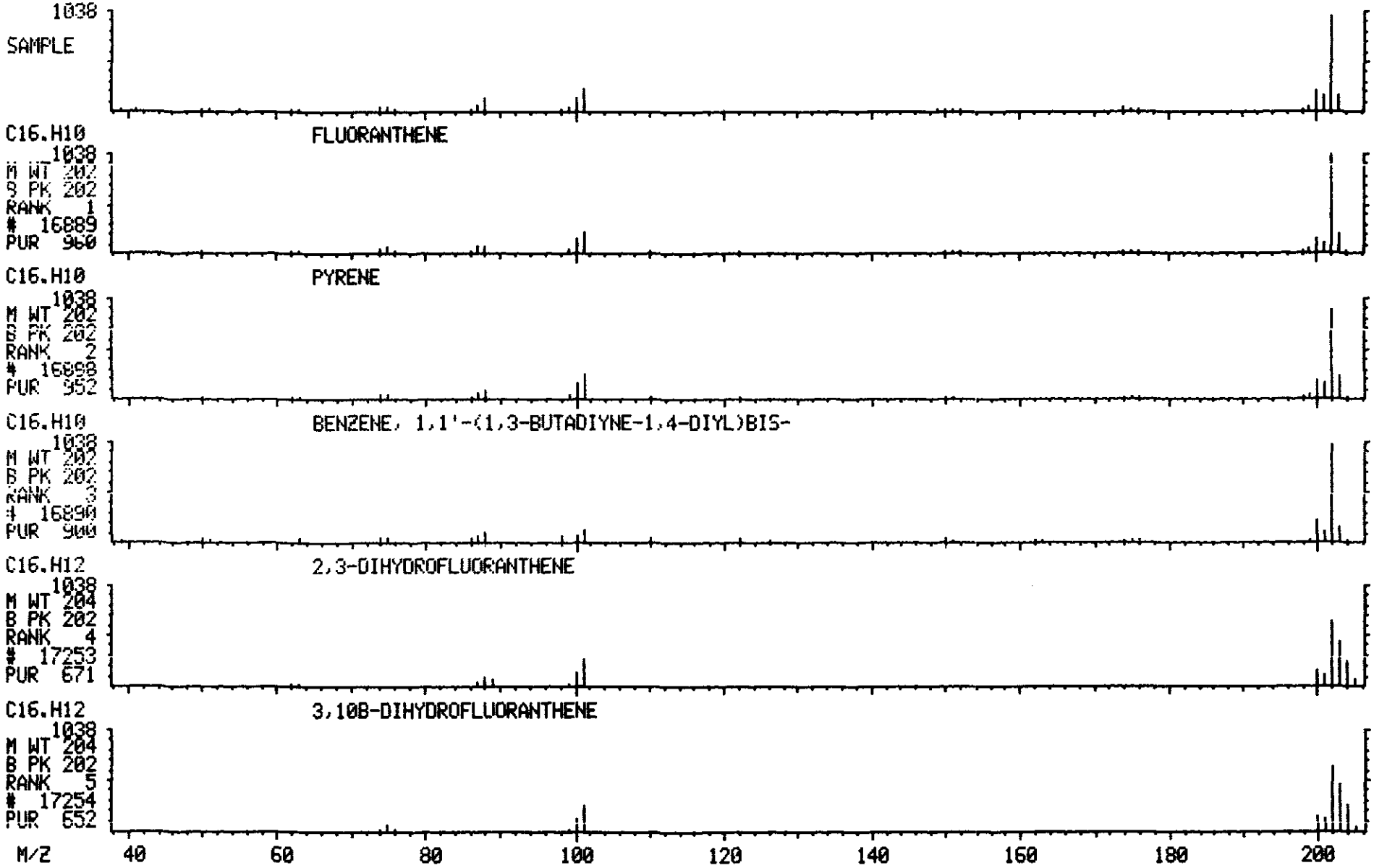
ORIGINAL (Red)

LIBRARY SEARCH
05/16/90 22:28:00 + 27:07
SAMPLE: CLP,VERSCOM,2565,11,M,S,16912,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2629 #1627
CALI: T2629 # 2

BASE M/Z: 202
RIC: 16767.

100304



Library Search Data: T2629 #1719 Base m/z: 216
05/16/90 22:28:00 + 28:39 Cali: T2629 # 2 RIC: 15951.
Sample: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
155 matched at least 4 of the 16 largest peaks in the unknown

Rah

Rank	In.	Name
1	19072	11H-BENZO[A]FLUORENE
2	19076	PYRENE, 2-METHYL-
3	19075	PYRENE, 4-METHYL-
4	19073	11H-BENZO[B]FLUORENE
5	19074	PYRENE, 1-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C17.H12	216	216	934	950	966
2	C17.H12	216	216	895	921	943
3	C17.H12	216	216	894	919	950
4	C17.H12	216	216	883	910	949
5	C17.H12	216	216	868	901	948

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	238-84-6
2	—	—	—	—	3442-78-2
3	—	—	—	—	3353-12-6
4	—	—	—	—	243-17-4
5	—	—	—	—	2381-21-7

✓

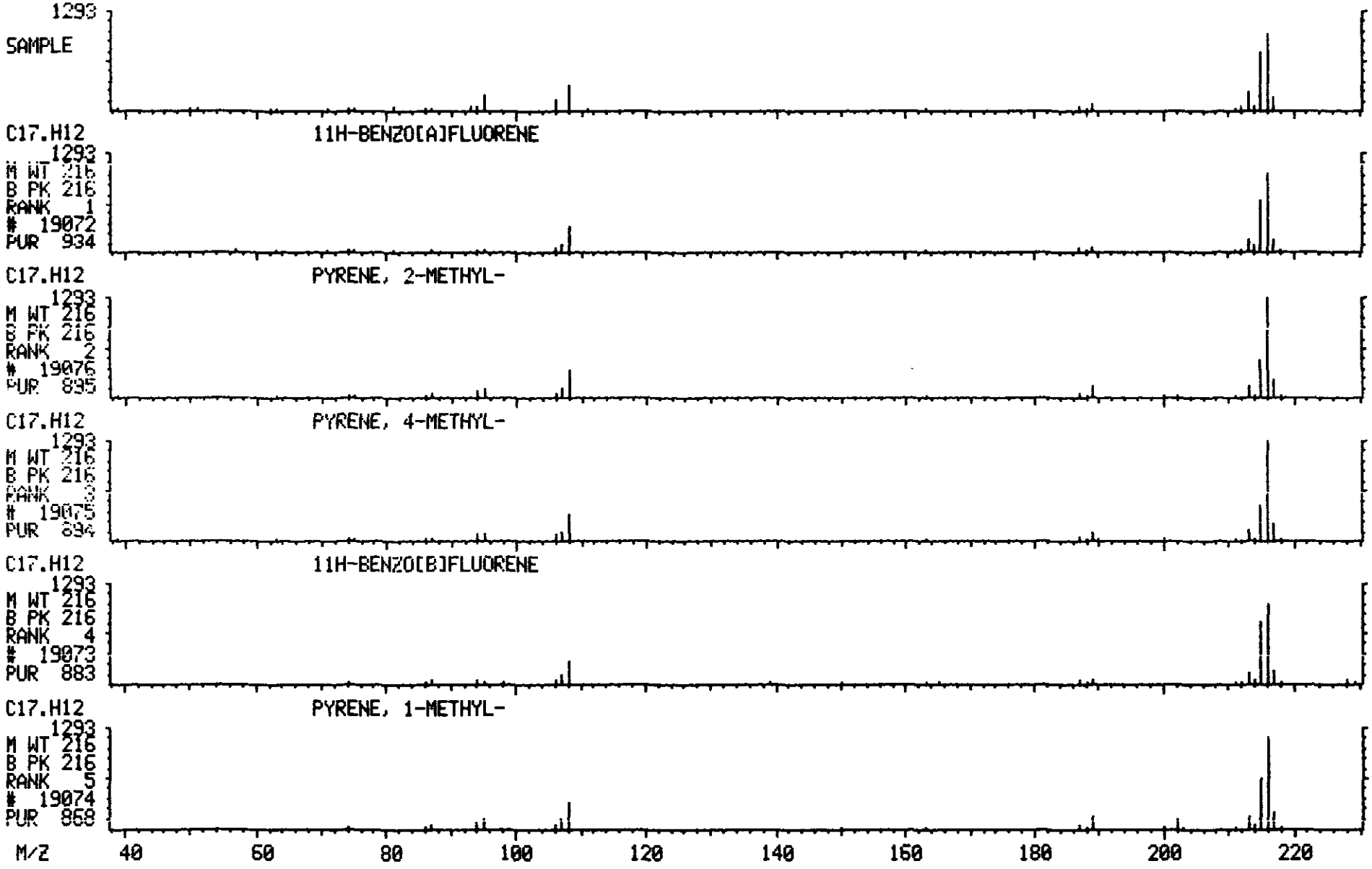
ORIGINAL (Red)

LIBRARY SEARCH
05/16/90 22:28:00 + 28:39
SAMPLE: CLP,VERSCOM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2629 #1719
CALI: T2629 # 2

BASE M/Z: 216
RIC: 15951.

100306



Library Search Data: T2629 #1916 Base m/z: 230
05/16/90 22:28:00 + 31:56 Cali: T2629 # 2 RIC: 13775
Sample: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL

42223 spectra in LIBRARYN8 searched for maximum PURITY
128 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	21165	7H-BENZ[DE]ANTHRACEN-7-ONE
2	21166	1-PYRENE-CARBOXALDEHYDE
3	21285	QUINOLINE, 4-STYRYL-
4	16888	PYRENE
5	16889	FLUORANTHENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C17.H10.O	230	230	928	994	931
2	C17.H10.O	230	230	730	784	883
3	C17.H13.N	231	202	597	696	760
4	C16.H10	202	202	539	961	516
5	C16.H10	202	202	537	945	545

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	82-05-3
2	—	—	—	—	3029-19-4
3	—	—	—	—	4594-84-7
4	—	—	—	—	129-00-0
5	—	—	—	—	206-44-0

100307

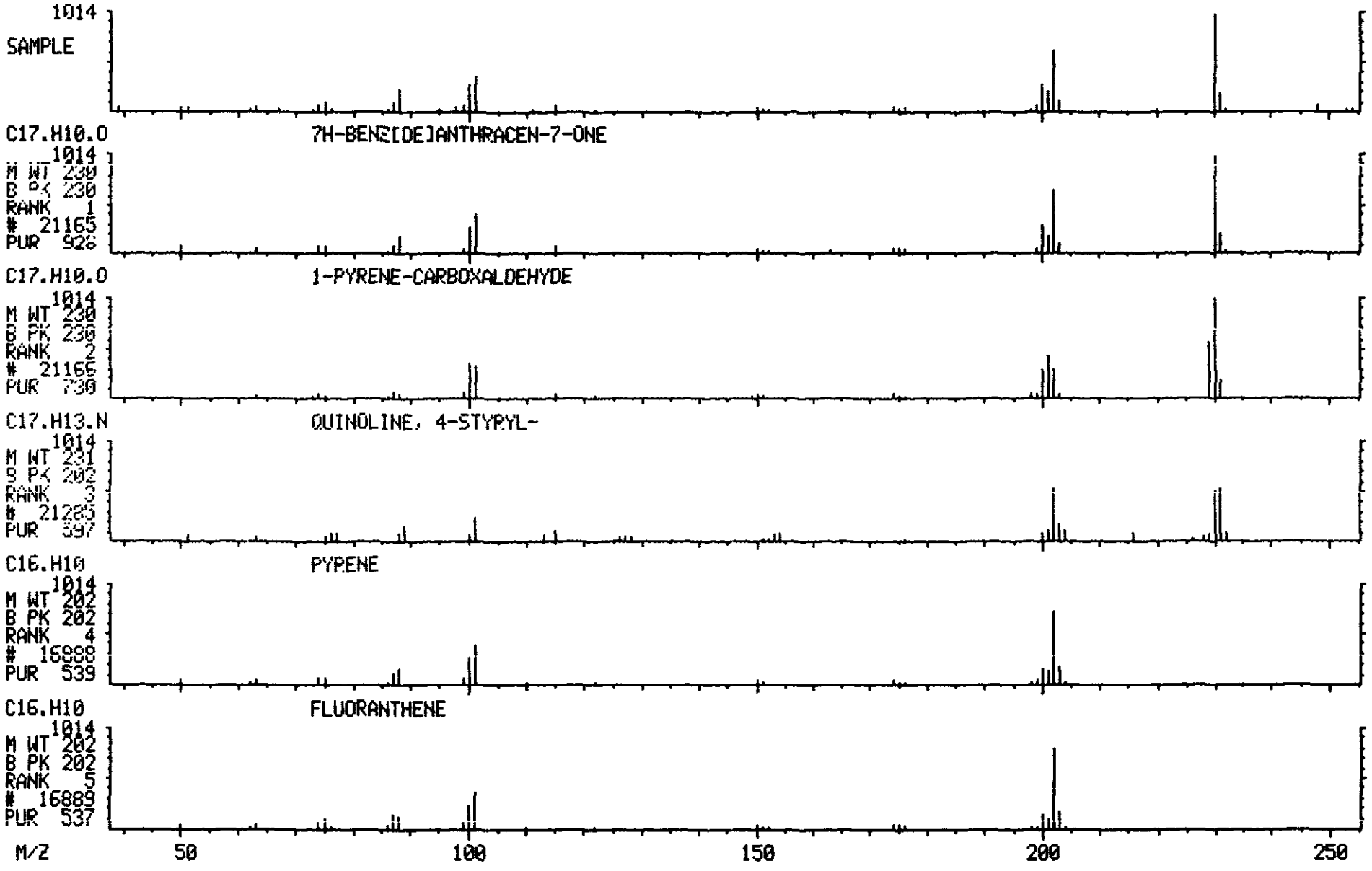
ORIGINAL (Red)

LIBRARY SEARCH
05/16/90 22:28:00 + 31:56
SAMPLE: CLP,VERSCOM,2565,11,M,S,16912,P,,420.1 P#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2629 #1916
CALI: T2629 # 2

BASE M/Z: 230
RIC: 13775.

100308



Library Search Data: T2629 #2158 Base m/z: 252
05/16/90 22:28:00 + 35:58 Cali: T2629 # 2 RIC: 21055.
Sample: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
137 matched at least 4 of the 16 largest peaks in the unknown

Rah

Rank	In.	Name
1	23964	BENZO[J]FLUORANTHENE
2	23966	BENZO[K]FLUORANTHENE
3	23965	BENZ[E]ACEPHENANTHRYLENE
4	23961	BENZO[A]PYRENE
5	23962	BENZO[E]PYRENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C20.H12	252	252	924	971	943
2	C20.H12	252	252	916	965	936
3	C20.H12	252	252	914	961	939
4	C20.H12	252	252	911	962	927
5	C20.H12	252	252	908	959	942

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	205-82-3
2	—	—	—	—	207-08-9
3	—	—	—	—	205-99-2
4	—	—	—	—	50-32-8
5	—	—	—	—	192-97-2

✓

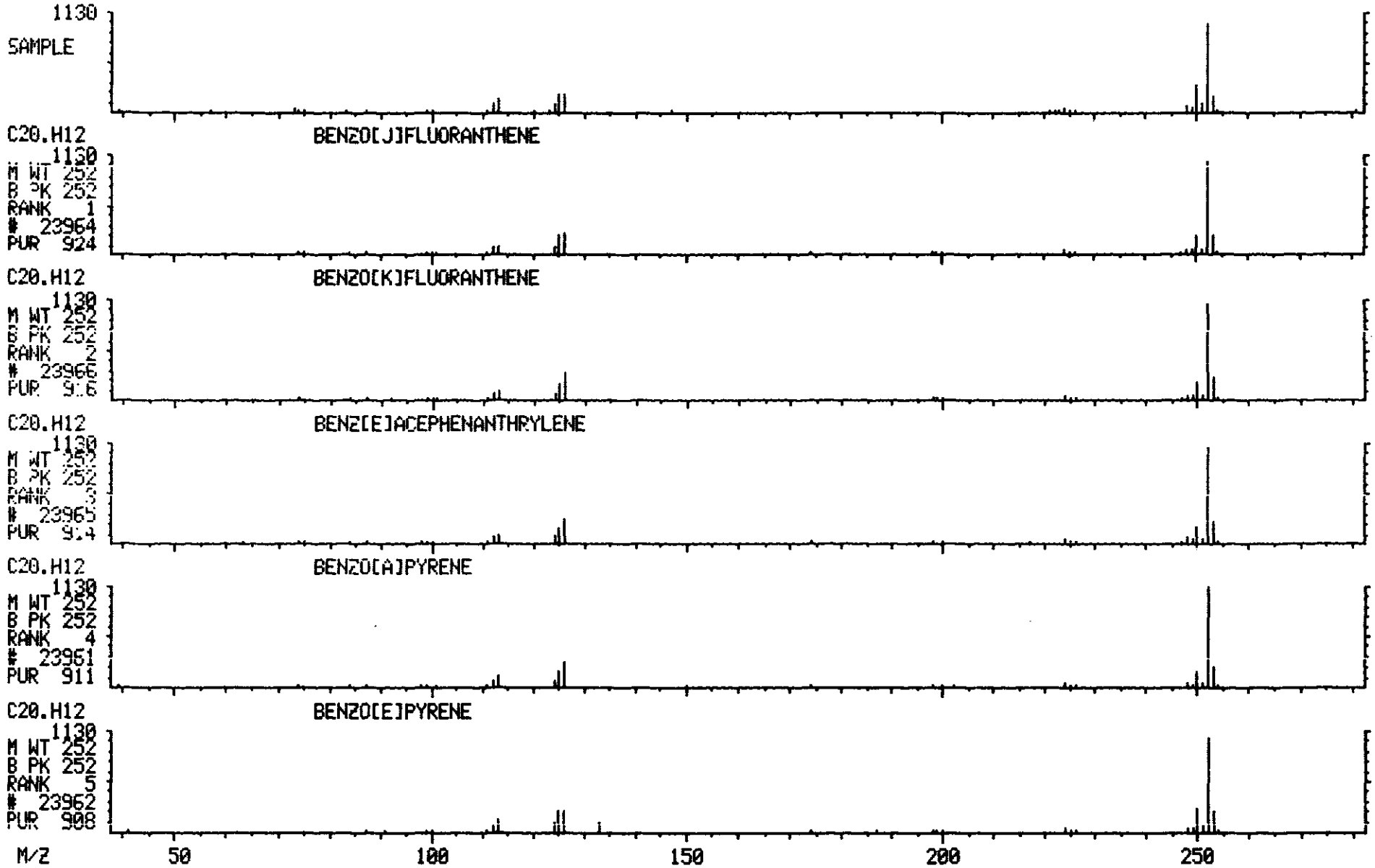
ORIGINAL (Red)

LIBRARY SEARCH
05/16/90 22:28:00 + 35:58
SAMPLE: CLP,VERSCOM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302C@C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2629 #2158
CALI: T2629 # 2

BASE M/Z: 252
RIC: 21055.

100310



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        >>>>INTERNAL STANDARD RIC REPORT<<<<
*****************************INTERNAL STANDARD#1*****************RIC
Mass List                        Data: T2629 # 536          Base m/z:   150
05/16/90 22:28:00 +  8:56        Cali: T2629 #    2         RIC:      68224.
Sample: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     35        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*****************************INTERNAL STANDARD#2*****************RIC
Mass List                        Data: T2629 # 755          Base m/z:   136
05/16/90 22:28:00 + 12:35        Cali: T2629 #    2         RIC:      78464.
Sample: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*****************************INTERNAL STANDARD#3*****************RIC
Mass List                        Data: T2629 #1088          Base m/z:   164
05/16/90 22:28:00 + 18:08        Cali: T2629 #    2         RIC:      76160.
Sample: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*****************************INTERNAL STANDARD#4*****************RIC
Mass List                        Data: T2629 #1371          Base m/z:   188
05/16/90 22:28:00 + 22:51        Cali: T2629 #    2         RIC:      99840.
Sample: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*****************************INTERNAL STANDARD#5*****************RIC
Mass List                        Data: T2629 #1888          Base m/z:   240
05/16/90 22:28:00 + 31:28        Cali: T2629 #    2         RIC:     110976.
Sample: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*****************************INTERNAL STANDARD#6*****************RIC
Mass List                        Data: T2629 #2187          Base m/z:   264
05/16/90 22:28:00 + 36:27        Cali: T2629 #    2         RIC:      59200.
Sample: CLP,VERSCDM,2565,11,M,S,16913,B,,420.1 B#4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
     ANALYST: CHECK BASE M/Z AND RIC AMOUNT TO INSURE NO CONTAMINATION
```

ORIGINAL (Red)

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

12 ORIGINAL (Base)

L) Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4_CDM

Matrix: (soil/water) SOIL Lab Sample ID: 16914

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2729

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 6 dec. ____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/23/90

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	740	U
111-44-4	bis(2-Chloroethyl)ether	740	U
95-57-8	2-Chlorophenol	740	U
541-73-1	1,3-Dichlorobenzene	740	U
106-46-7	1,4-Dichlorobenzene	740	U
100-51-6	Benzyl alcohol	740	U
95-50-1	1,2-Dichlorobenzene	740	U
95-48-7	2-Methylphenol	740	U
108-60-1	bis(2-Chloroisopropyl)ether	740	U
106-44-5	4-Methylphenol	740	U
621-64-7	N-Nitroso-di-n-propylamine	740	U
67-72-1	Hexachloroethane	740	U
98-95-3	Nitrobenzene	740	U
78-59-1	Isophorone	740	U
88-75-5	2-Nitrophenol	740	U
105-67-9	2,4-Dimethylphenol	740	U
65-85-0	Benzoic Acid	3600	U
111-91-1	bis(2-Chloroethoxy)methane	740	U
120-83-2	2,4-Dichlorophenol	740	U
120-82-1	1,2,4-Trichlorobenzene	740	U
91-20-3	Naphthalene	740	U
106-47-8	4-Chloroaniline	740	U
87-68-3	Hexachlorobutadiene	740	U
59-50-7	4-Chloro-3-methylphenol	740	U
91-57-6	2-Methylnaphthalene	740	U
77-47-4	Hexachlorocyclopentadiene	740	U
88-06-2	2,4,6-Trichlorophenol	740	U
95-95-4	2,4,5-Trichlorophenol	3600	U
91-58-7	2-Chloronaphthalene	740	U
88-74-4	2-Nitroaniline	3600	U
131-11-3	Dimethylphthalate	740	U
208-96-8	Acenaphthylene	560	J
606-20-2	2,6-Dinitrotoluene	740	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

12 ORIGINAL (Disk)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4 CDM

Matrix: (soil/water) SOIL Lab Sample ID: 16914

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2729

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 6 dec. ____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/23/90

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3600	U
83-32-9	Acenaphthene	740	U
51-28-5	2,4-Dinitrophenol	3600	U
100-02-7	4-Nitrophenol	3600	U
132-64-9	Dibenzofuran	320	J
121-14-2	2,4-Dinitrotoluene	740	U
84-66-2	Diethylphthalate	740	U
7005-72-3	4-Chlorophenyl-phenylether	740	U
86-73-7	Fluorene	1100	
100-01-6	4-Nitroaniline	3600	U
534-52-1	4,6-Dinitro-2-methylphenol	3600	U
86-30-6	N-nitrosodiphenylamine (1)	740	U
101-55-3	4-Bromophenyl-phenylether	740	U
118-74-1	Hexachlorobenzene	740	U
87-86-5	Pentachlorophenol	3600	U
85-01-8	Phenanthrene	5800	
120-12-7	Anthracene	830	
84-74-2	Di-n-butylphthalate	740	U
206-44-0	Fluoranthene	6100	
129-00-0	Pyrene	3900	
85-68-7	Butylbenzylphthalate	740	U
91-94-1	3,3'-Dichlorobenzidine	1500	U
56-55-3	Benzo(a)anthracene	3000	
218-01-9	Chrysene	3400	
117-81-7	bis(2-Ethylhexyl)phthalate	740	U
117-84-0	Di-n-octyl phthalate	740	U
205-99-2	Benzo(b)fluoranthene	2100	
207-08-9	Benzo(k)fluoranthene	1900	
50-32-8	Benzo(a)pyrene	1400	
193-39-5	Indeno(1,2,3-cd)pyrene	1400	
53-70-3	Dibenz(a,h)anthracene	530	J
191-24-2	Benzo(g,h,i)perylene	740	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

12

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4 CDM

Matrix: (soil/water) SOIL Lab Sample ID: 16914

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2729

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 6 dec. ____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/23/90

GPC Cleanup: (Y/N) Y pH: 7.1 Dilution Factor: 1.0

Number TICs found: 23

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

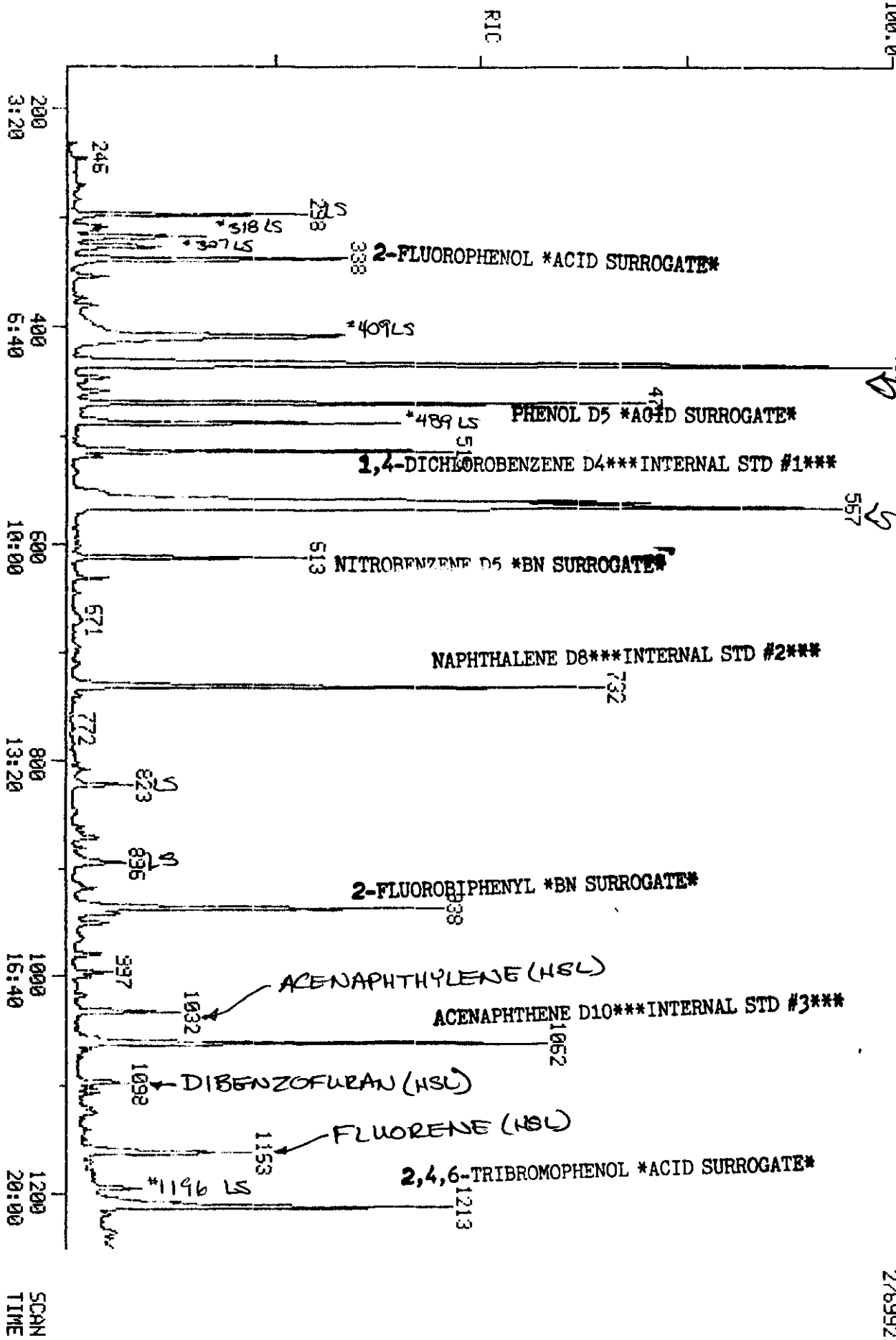
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.97	1700	BJ
2.	UNKNOWN	5.30	970	BJ
3.	UNKNOWN HYDROCARBON	5.45	670	BJ
4.	UNKNOWN	6.82	2000	J
5.	UNKNOWN KETONE	7.28	6000	BJ
6.	UNKNOWN	8.15	2600	J
7.	UNKNOWN	9.45	5700	BJ
8.	UNKNOWN	13.72	300	J
9.	UNKNOWN	14.94	300	J
10.	UNKNOWN	19.94	300	J
11.	UNK. POLYCYCLIC AROMATIC	24.02	820	J
12.	UNK. POLYCYCLIC AROMATIC	24.30	1300	J
13.	UNKNOWN	24.92	450	J
14.	UNKNOWN	27.52	2400	J
15.	UNK. POLYCYCLIC AROMATIC	28.02	1200	J
16.	UNK. POLYCYCLIC AROMATIC	28.21	820	J
17.	UNK. POLYCYCLIC AROMATIC	32.04	450	J
18.	UNK. POLYCYCLIC AROMATIC	32.42	300	J
19.	UNKNOWN	33.36	970	BJ
20.	UNK. POLYCYCLIC AROMATIC	35.02	81000	J
21.	UNKNOWN	35.46	170000	J
22.	UNKNOWN	37.84	34000	J
23.	UNKNOWN	39.42	29000	J

ORIGINAL

RIC
05/23/90 15:46:00
SAMPLE: CLP,VERSCOM,2565,12,L,5,16914.8,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 300@8C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2729 #1
CALI: T2729 #2

SCANS 160 TO 1250



276992.

100315

ORIGINAL (Red)

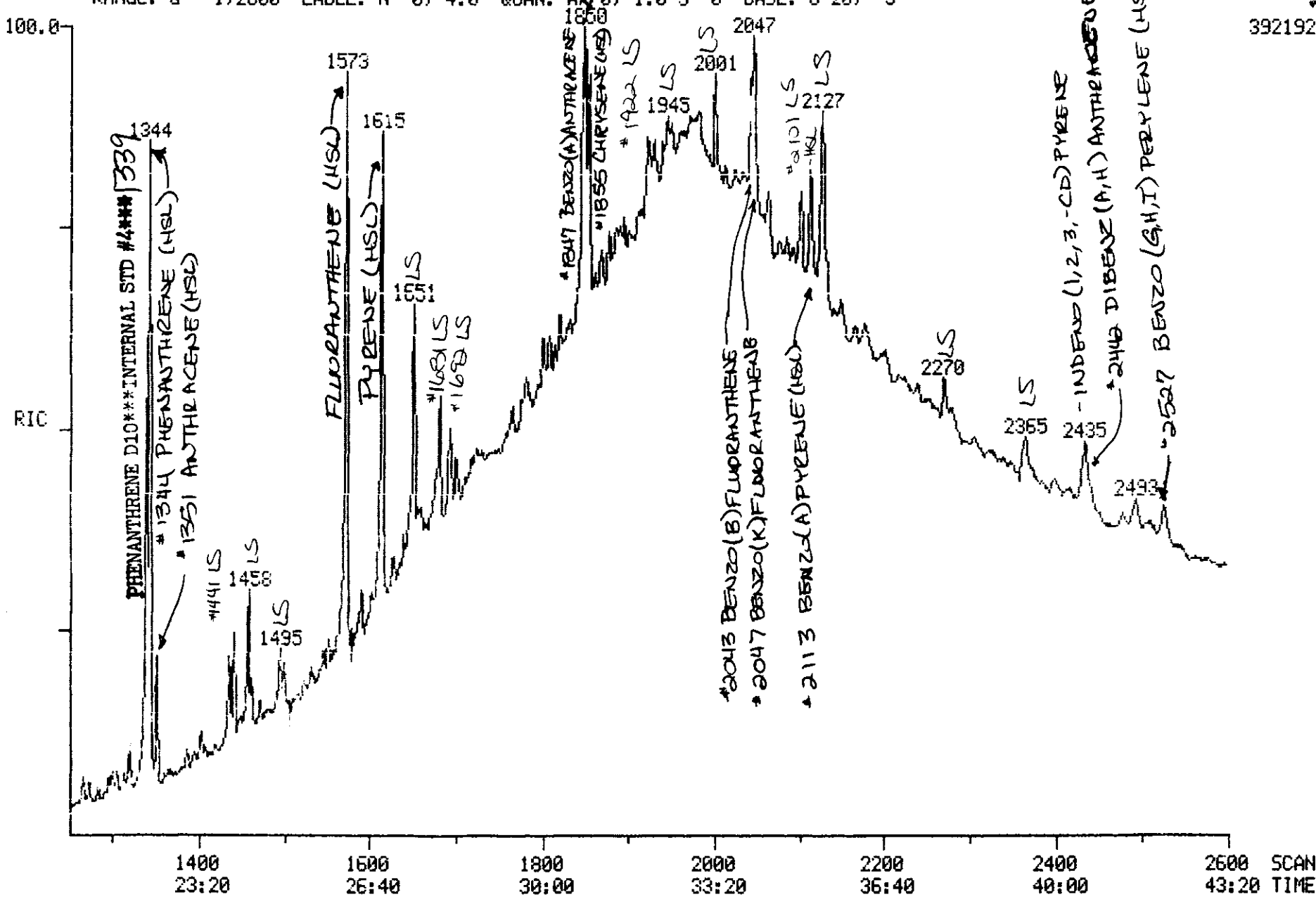
RIC
05/23/90 15:46:00
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420,1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 70, 1.0 J 0 BASE: U 20, 3

DATA: T2729 #1
CALI: T2729 #2

SCANS 1250 TO 2600

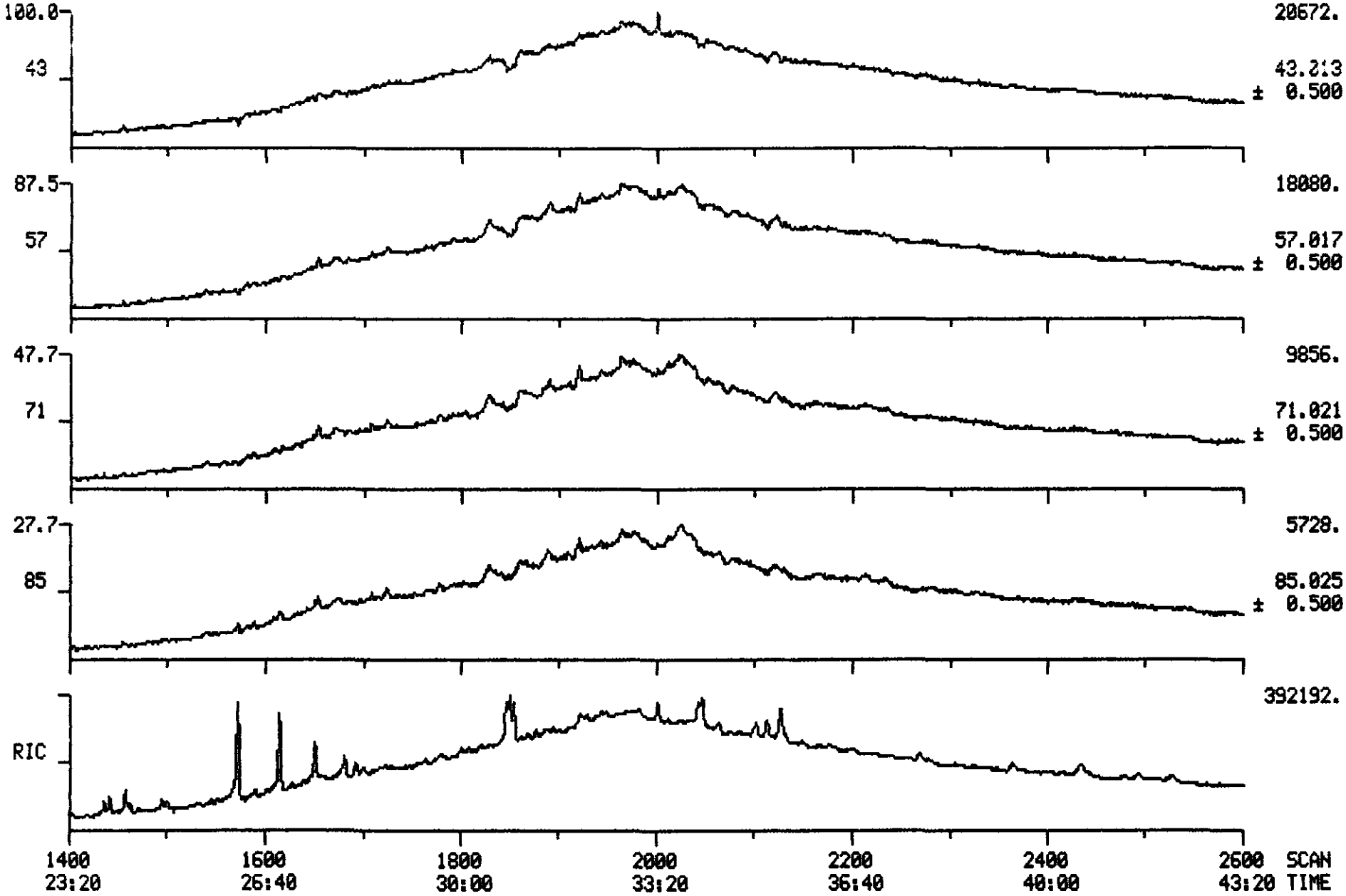
100316

392192.



RIC+MASS CHROMATOGRAMS DATA: T2729 #1 SCANS 1400 TO 2600
05/23/90 15:46:00 CALI: T2729 #2
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

100317



Quantitation Report "File: T2729

ORIGINAL (Red)

Data: T2729.TI
05/23/90 15:46:00
Sample: CLP,VERSCDN,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

All IS areas + surrogate recoveries are compliant.
SJD
5/24/90

15 HSL's quantitated
1 of 15 tentative

24 LIBR SRCHS
3 of 24 in Blk

100318

T2729 ORIGINAL (Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	515	8:35	1	1.000	A BB	32499.	40.000 NG/UL	4.26
2	128	489	8:09	1	0.950	A BB	501.	~~0.487 NG~~.	0.05
3	94	472	7:52	1	0.917	A BB	301.	~~0.201 NG~~	0.02
4	NOT FOUND								
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	112	338	5:38	1	0.656	A BB	35214.	32.907 NG*A1	3.51
15	99	471	7:51	1	0.915	A BB	97501.	67.939 NG*A2	7.24
16	136	732	12:12	16	1.000	A BB	141268.	40.000 NG/UL	4.26
17	77	613	10:13	16	0.837	A BB	186.	~~0.085 NG~~	0.01
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	128	735	12:15	16	1.004	A BB	1597.	~~0.344 NG~~	0.04
25	122	695	11:35	16	0.949	A BB	743.	~~1.161 NG~~	0.12
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	142	862	14:22	16	1.178	A BB	2725.	~~1.045 NG~~	0.11
30	82	613	10:13	16	0.837	A BB	55894.	26.137 NG*B1	2.78
31	164	1062	17:42	31	1.000	A BB	96916.	40.000 NG/UL	4.26
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	152	1032	17:12	31	0.972	A BB	36469.	7.564 NG	0.81
38	NOT FOUND								
39	NOT FOUND								
40	153	1067	17:47	31	1.005	A VB	3569.	~~1.207 NG~~.	0.13
41	NOT FOUND								
42	NOT FOUND								
43	168	1028	18:18	31	1.034	A BB	17700.	4.315 NG	0.46
44	NOT FOUND								
45	NOT FOUND								
46	166	1162	19:22	31	1.094	A BB	48230.	14.469 NG	1.54
47	NOT FOUND								
48	149	1161	19:21	31	1.093	A BB	2255.	~~0.595 NG~~	0.06
49	NOT FOUND								
50	NOT FOUND								

T2729 ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:32	1.01	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:05	1.01	0.947	1.00	0.49	50.00	0.012	1.267	0.01
3	7:50	1.00	0.918	1.00	0.20	50.00	0.007	1.842	0.00
4	8:02		0.941						
5	8:26		0.988						
6	8:35		1.006						
7	9:04		1.062						
8	9:01		1.057						
9	9:27		1.107						
10	9:23		1.100						
11	9:53		1.158						
12	9:48		1.148						
13	9:52		1.156						
14	5:35	1.01	0.654	1.00	32.91	50.00	0.867	1.317	0.66
15	7:48	1.01	0.914	1.00	67.94	50.00	2.400	1.766	1.36
16	12:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:14	1.00	0.842	0.99	0.09	50.00	0.001	0.617	0.00
18	10:53		0.896						
19	11:08		0.916						
20	11:19		0.931						
21	11:38		0.957						
22	11:48		0.971						
23	12:03		0.992						
24	12:13	1.00	1.005	1.00	0.34	50.00	0.009	1.313	0.01
25	11:42	0.99	0.963	0.99	1.16	50.00	0.004	0.181	0.02
26	12:32		1.032						
27	12:46		1.051						
28	14:03		1.156						
29	14:19	1.00	1.178	1.00	1.05	50.00	0.015	0.738	0.02
30	10:11	1.00	0.838	1.00	26.14	50.00	0.317	0.606	0.52
31	17:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:01		0.851						
33	15:20		0.869						
34	15:26		0.874						
35	15:50		0.897						
36	16:23		0.928						
37	17:10	1.00	0.973	1.00	7.56	50.00	0.301	1.990	0.15
38	17:06		0.969						
39	17:20		0.982						
40	17:46	1.00	1.007	1.00	1.21	50.00	0.029	1.220	0.02
41	17:43		1.004						
42	18:01		1.021						
43	18:16	1.00	1.035	1.00	4.31	50.00	0.146	1.693	0.09
44	18:18		1.037						
45	18:32		1.050						
46	19:22	1.00	1.097	1.00	14.47	50.00	0.398	1.376	0.29
47	19:26		1.101						
48	19:22	1.00	1.097	1.00	0.59	50.00	0.019	1.565	0.01
49	19:42		1.116						
50	19:47		1.121						

Quantitation Report File: T2729

ORIGINAL (Red)

Data: T2729.TI
05/23/90 15:46:00
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE T
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	169	1192	19:52	31	1.122	A BB	180.	~~0.075 NG~~	0.01
52	NOT FOUND								
53	NOT FOUND								
54	172	938	15:38	31	0.883	A BB	95886.	29.854 NG*B2	3.18
55	188	1339	22:19	55	1.000	A BV	185162.	40.000 NG/UL	4.26
56	NOT FOUND								
57	178	1344	22:24	55	1.004	A BV	389608.	77.359 NG	8.24
58	178	1351	22:31	55	1.009	A VB	55116.	11.119 NG	1.18
59	149	1470	24:30	55	1.098	A BB	13313.	BRL ~~2.070 NG~~	0.22
60	202	1573	26:13	55	1.175	A BB	423031.	81.965 NG	8.73
61	202	1615	26:55	63	0.873	A BB	280156.	52.637 NG	5.61
62	330	1213	20:13	31	1.142	A BB	38292.	56.375 NG*A3	6.01
63	240	1850	30:50	63	1.000	A BB	157164.	40.000 NG/UL	4.26
64	149	1756	29:16	63	0.949	A BB	229.	BRL ~~0.085 NG~~	0.01
65	228	1847	30:47	63	0.998	A BV	163477.	40.755 NG	4.34
66	228	1855	30:55	63	1.003	A VB	132641.	46.149 NG	4.92

100321

T2729

ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT	FOUND							
68	149	1870	31:10	63	1.011	A BB	3258.	~~0.847 NG~~	0.09
69	244	1651	27:31	63	0.892	A BB	111110.	31.525 NG*B3	3.36
70	264	2127	35:27	70	1.000	A BB	154245.	40.000 NG/UL	4.26
71	149	1976	32:56	70	0.929	A BV	2393.	~~0.346 NG~~	0.04
72	252	2043	34:03	70	0.961	A BV	136142.	28.230 NG	3.01
73	252	2047	34:07	70	0.962	A VB	88784.	25.572 NG	2.72
74	252	2113	35:13	70	0.993	A VB	79085.	19.349 NG	2.06
75	276	2435	40:35	70	1.145	A BB	66794.	19.095 NG	2.03
76	278	2442	40:42	70	1.148	A BV	22961.	7.047 NG T	0.75
77	276	2527	42:07	70	1.188	A BB	34868.	9.899 NG	1.05

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	19:52	1.00	1.126	1.00	0.08	50.00	0.001	0.984	0.00
52	20:58		1.188						
53	21:21		1.210						
54	15:36	1.00	0.884	1.00	29.85	50.00	0.791	1.326	0.60
55	22:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	21:58		0.983						
57	22:25	1.00	1.003	1.00	77.36	50.00	1.683	1.088	1.55
58	22:33	1.00	1.009	1.00	11.12	50.00	0.238	1.071	0.22
59	24:34	1.00	1.099	1.00	2.09	50.00	0.058	1.376	0.04
60	26:16	1.00	1.175	1.00	81.97	50.00	1.828	1.115	1.64
61	26:59	1.00	0.872	1.00	52.64	50.00	1.426	1.355	1.05
62	20:12	1.00	1.144	1.00	56.37	50.00	0.316	0.280	1.13
63	30:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:23	1.00	0.950	1.00	0.08	50.00	0.001	0.686	0.00
65	30:53	1.00	0.998	1.00	40.75	50.00	0.832	1.021	0.82
66	31:01	1.00	1.003	1.00	46.15	50.00	0.675	0.732	0.92
67	30:56		1.000						
68	31:16	1.00	1.011	1.00	0.85	50.00	0.017	0.979	0.02
69	27:36	1.00	0.892	1.00	31.53	50.00	0.566	0.897	0.63
70	35:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:02	1.00	0.928	1.00	0.35	50.00	0.012	1.795	0.01
72	34:10	1.00	0.960	1.00	28.23	50.00	0.706	1.251	0.56
73	34:15	1.00	0.963	1.00	25.57	50.00	0.460	0.900	0.51
74	35:21	1.00	0.993	1.00	19.35	50.00	0.410	1.060	0.39
75	40:48	0.99	1.147	1.00	19.10	50.00	0.346	0.907	0.38
76	40:58	0.99	1.151	1.00	7.05	50.00	0.119	0.845	0.14
77	42:25	0.99	1.192	1.00	9.90	50.00	0.181	0.913	0.20

Quantitation Report File: QCREF

ORIGINAL (Red)

Data: T2729.TI
05/23/90 15:46:00
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI40 NAPHTHALENE-D8**INT. STD.#2**
3	CI50 ACENAPHTHENE-D10**INT. STD.#3**
4	CI60 PHENANTHRENE-D10**INT. STD.#4**
5	CI70 CHRYSENE-D12**INT. STD.#5**
6	CI75 PERYLENE-D12**INT. STD.#6**
7	CS50 2-FLUOROPHENOL**ACID SURR.**
8	CS45 PHENOL-D5**ACID SURR.**
9	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
10	CS20 NITROBENZENE-D5**BN SURR.**
11	CS25 2-FLUOROBIPHENYL**BN SURR.**
12	CS30 P-TERPHENYL-D14**BN SURR.**

x 1.053

Scan	Time	Area(Hght)		Amount	Name
515	8:35	32499.		40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
732	12:12	141268.	%	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1062	17:42	96916.	Rec.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1339	22:19	185162.		40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1850	30:50	157164.		40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2127	35:27	154245.		40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
338	5:38	35214.	35	32.907 NG*A1	CS50 2-FLUOROPHENOL**ACID SU
471	7:51	97501.	72	67.939 NG*A2	CS45 PHENOL-D5**ACID SURR.**
1213	20:13	38292.	59	56.375 NG*A3	CS55 2,4,6,-TRIBROMOPHENOL**
613	10:13	55894.	55	26.137 NG*B1	CS20 NITROBENZENE-D5**BN SUR
938	15:38	95886.	63	29.854 NG*B2	CS25 2-FLUOROBIPHENYL**BN SU
1651	27:31	111110.	66	31.525 NG*B3	CS30 P-TERPHENYL-D14**BN SUR

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:32	1.01	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	17:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	30:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	35:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	5:35	1.01	0.654	1.00	32.91	50.00	0.867	1.317	0.66
8	7:48	1.01	0.914	1.00	67.94	50.00	2.400	1.766	1.36
9	20:12	1.00	1.144	1.00	56.37	50.00	0.316	0.280	1.13
10	10:11	1.00	0.838	1.00	26.14	50.00	0.317	0.606	0.52
11	15:36	1.00	0.884	1.00	29.85	50.00	0.791	1.326	0.60
12	27:36	1.00	0.892	1.00	31.53	50.00	0.566	0.897	0.63

Quantitation Report ~ File: ISREF

ORIGINAL (Red)

Data: T2726.TI
05/23/90 12:04:00
Sample: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: -

Data: T2729.TI
05/23/90 15:46:00
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
3	CI40 NAPHTHALENE-D8**INT. STD. #2**
4	CI40 NAPHTHALENE-D8**INT. STD. #2**
5	CI50 ACENAPHTHENE-D10**INT. STD. #3**
6	CI50 ACENAPHTHENE-D10**INT. STD. #3**
7	CI60 PHENANTHRENE-D10**INT. STD. #4**
8	CI60 PHENANTHRENE-D10**INT. STD. #4**
9	CI70 CHRYSENE-D12**INT. STD. #5**
10	CI70 CHRYSENE-D12**INT. STD. #5**
11	CI75 PERYLENE-D12**INT. STD. #6**
12	CI75 PERYLENE-D12**INT. STD. #6**

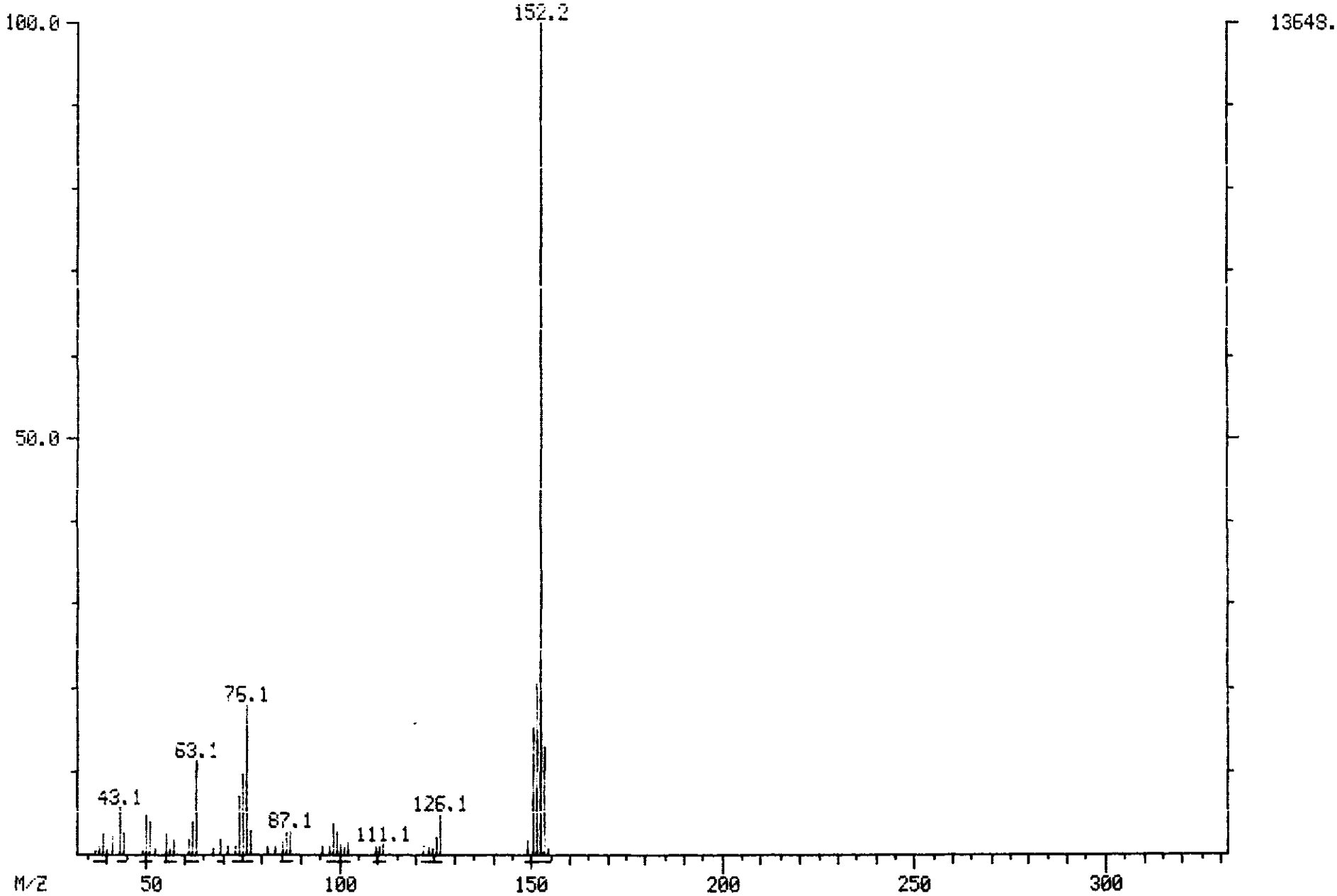
Scan	Time	Area(Hght)	Amount	Name
512	8:32	32730.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
515	8:35	32499.	39.718 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
729	12:09	101194.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
732	12:12	141268.	55.840 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1059	17:39	68217.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1062	17:42	96916.	56.828 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1341	22:21	135436.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1339	22:19	185162.	54.686 NG/UL	CI60 PHENANTHRENE-D10**INT.
1856	30:56	112578.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
1850	30:50	157164.	55.842 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2135	35:35	97334.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
2127	35:27	154245.	63.388 NG/UL	CI75 PERYLENE-D12**INT. STD.

100325

MASS SPECTRUM
05/23/90 15:46:00 + 17:12
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C540 ACENAPHTHYLENE

DATA: T2729 #1032
CALI: T2729 #2

BASE M/Z: 152
RIC: 37824.



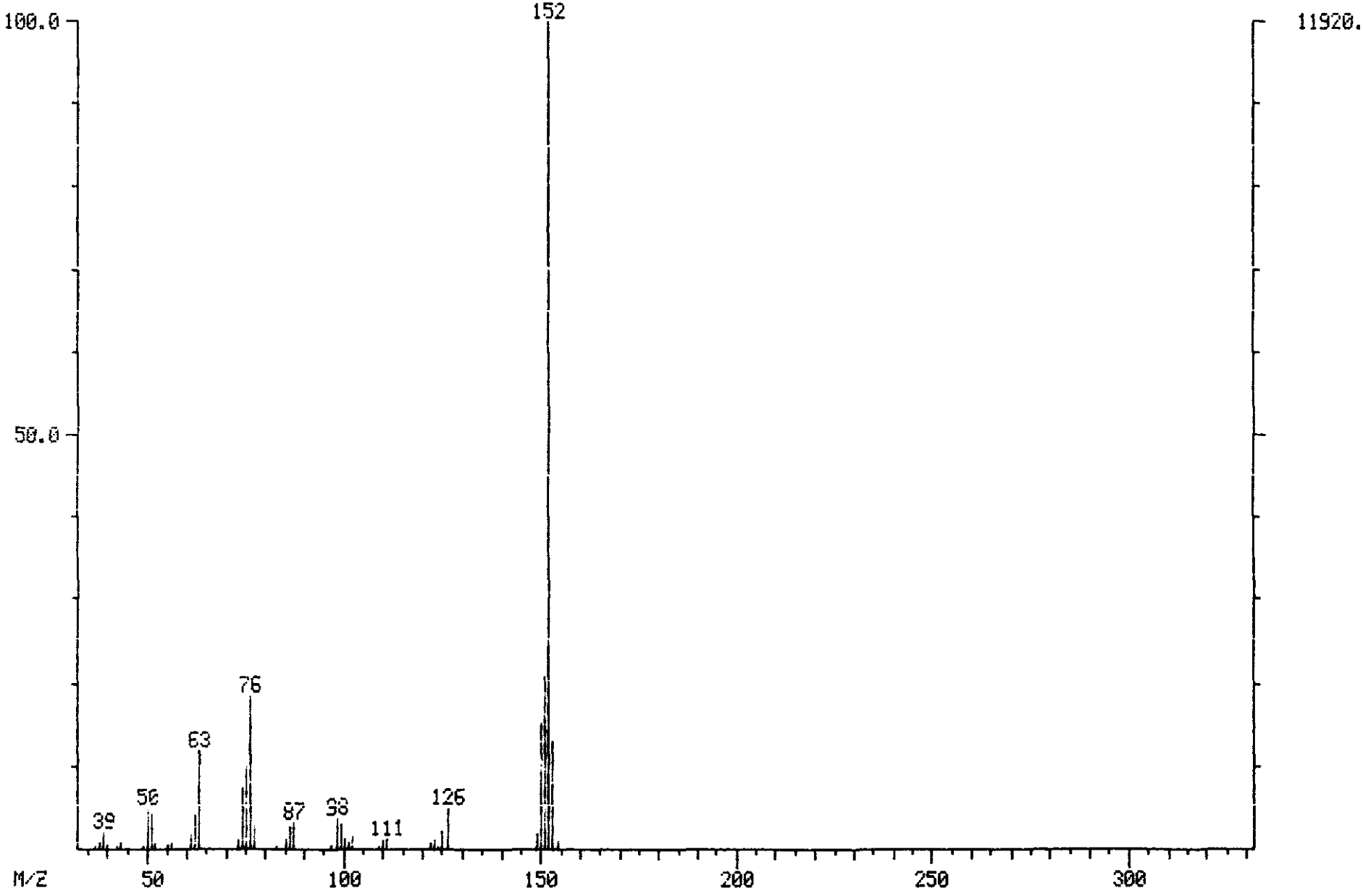
ORIGINAL (Red)

100326

MASS SPECTRUM
05/23/90 15:46:00 + 17:12
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C540 ACENAPHTHYLENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1032
CALI: T2729 #2

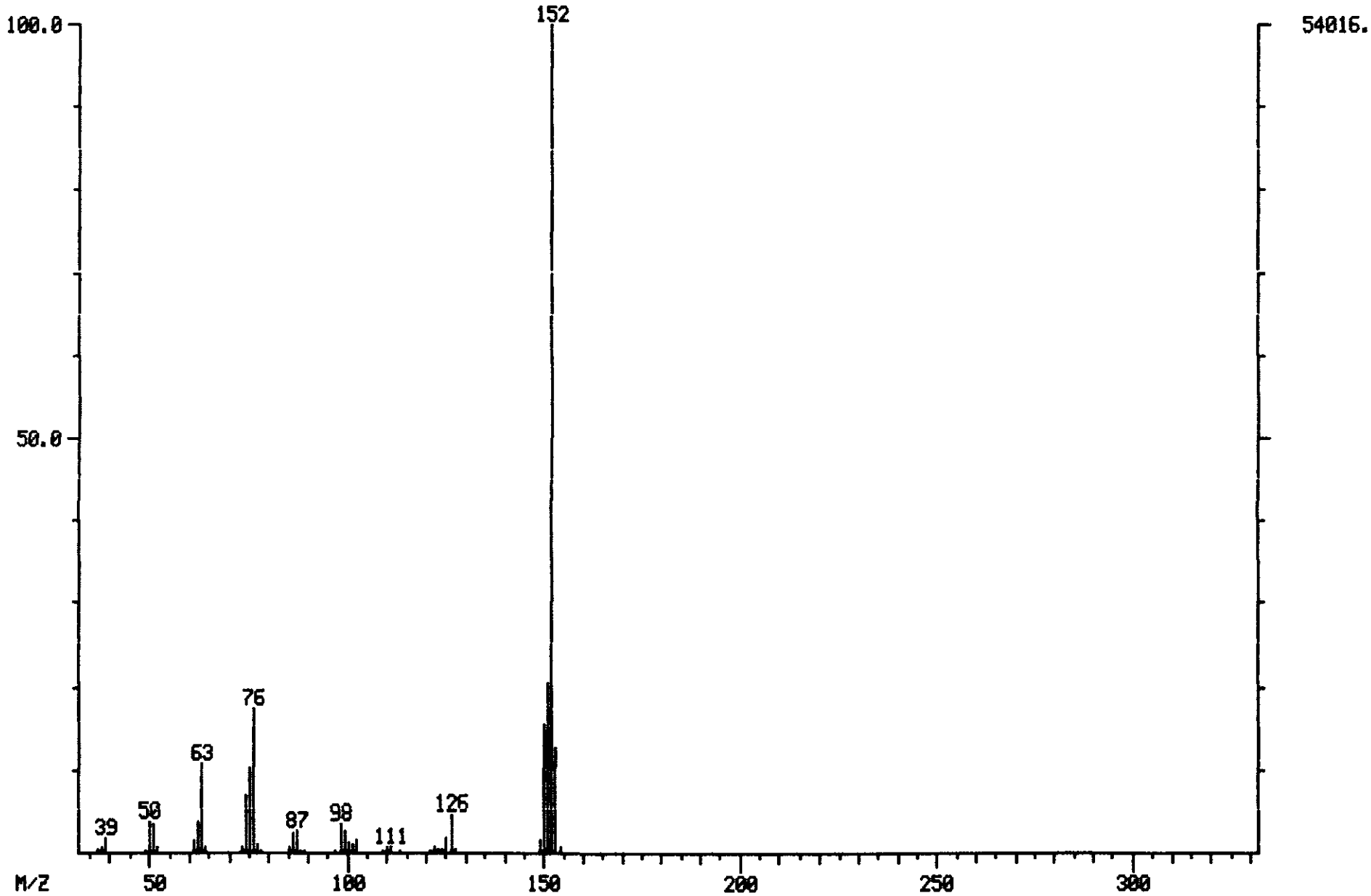
BASE M/Z: 152
RIC: 30720.



MASS SPECTRUM
05/23/90 12:04:00 + 17:10
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C540 ACENAPHTHYLENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #1030
CALI: T2726 #2

BASE M/Z: 152
RIC: 133632.



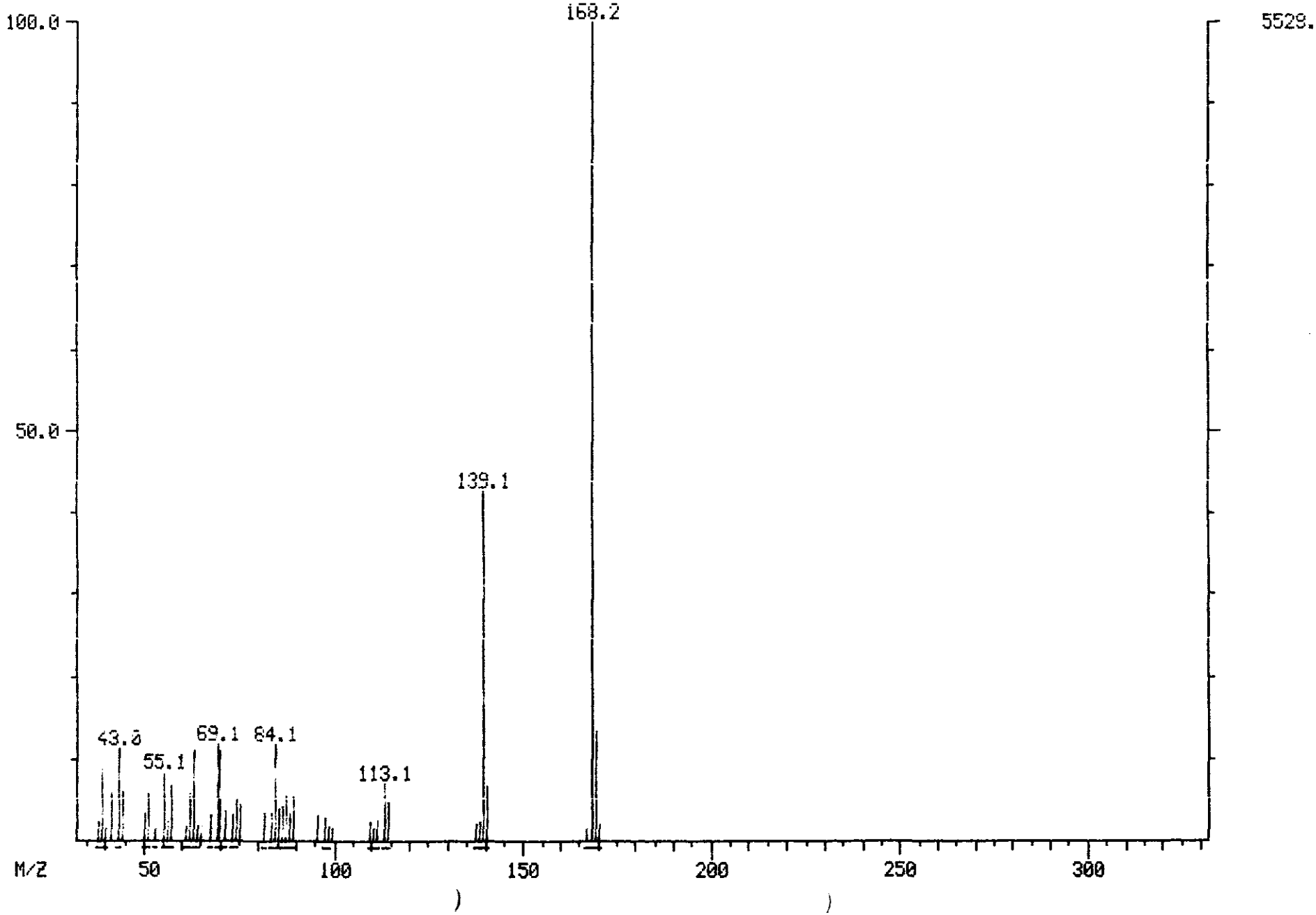
ORIGINAL (Red)

MASS SPECTRUM
05/23/90 15:46:00 + 18:18
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C565 DIBENZOFURAN

DATA: T2729 #1098
CALI: T2729 #2

BASE M/Z: 168
RIC: 20480.

100328



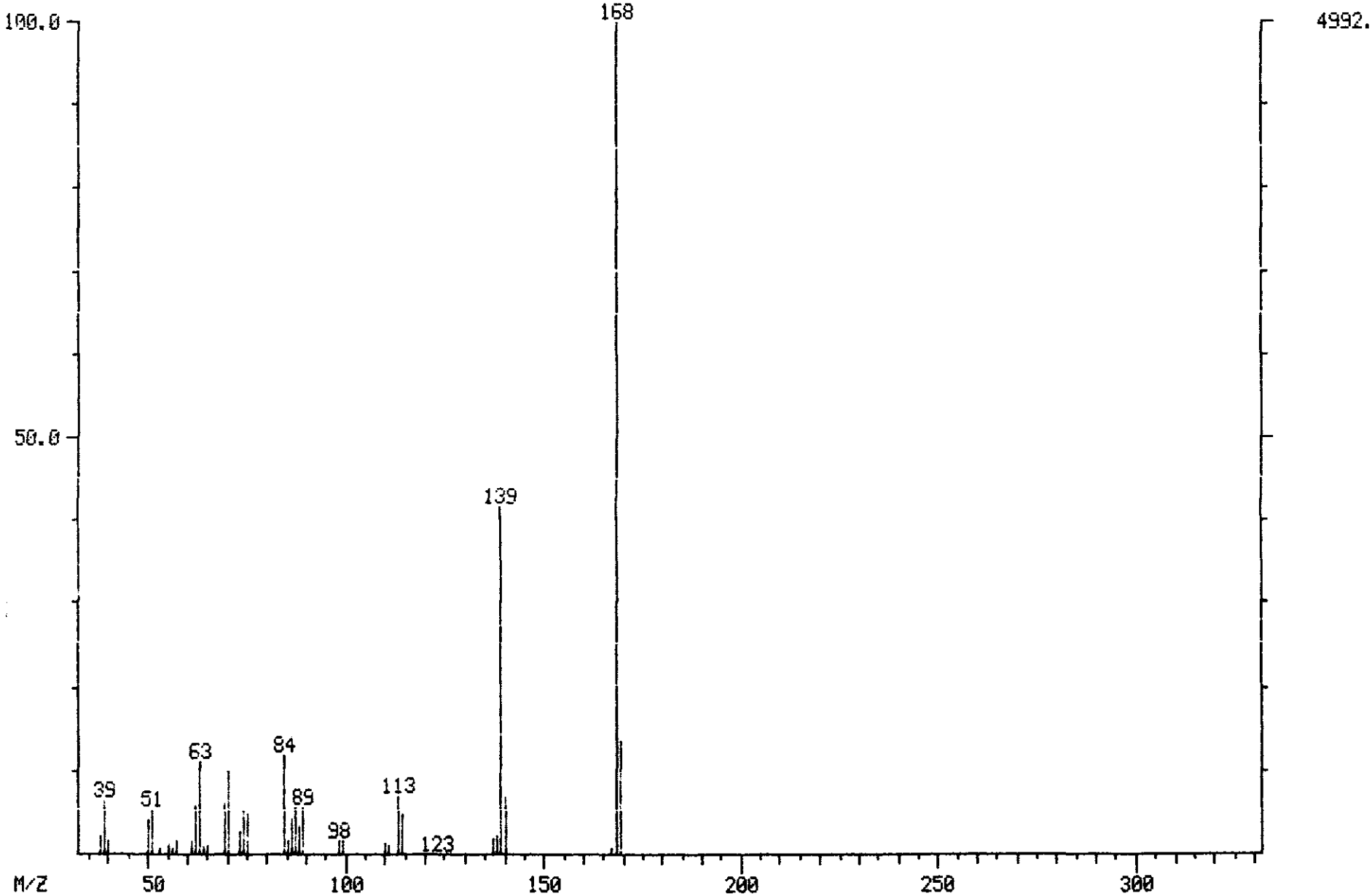
ORIGINAL (Red)

100329

MASS SPECTRUM
05/23/90 15:46:00 + 18:18
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C565 DIBENZOFURAN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1098
CALI: T2729 #2

BASE M/Z: 168
RIC: 14560.



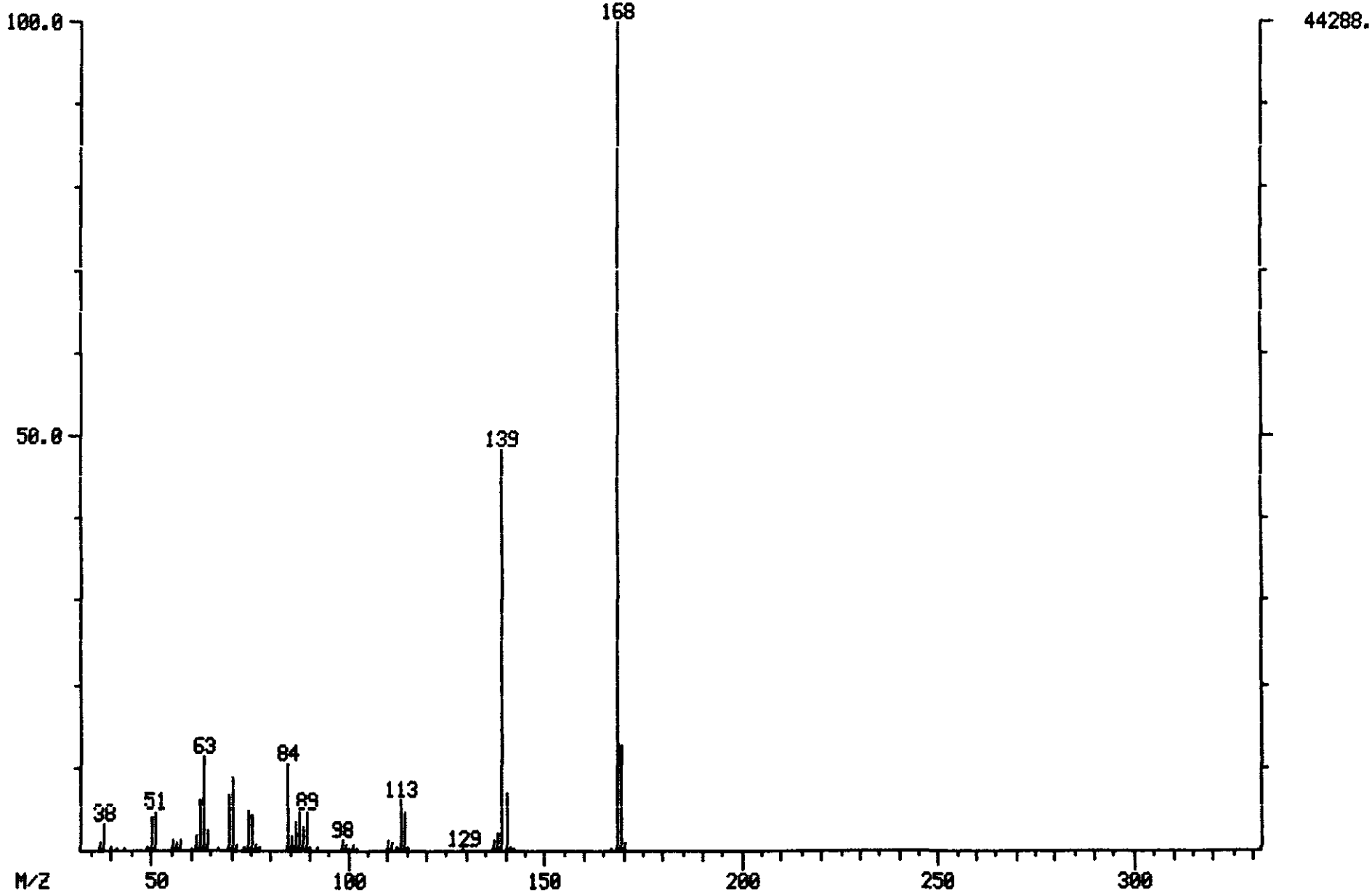
ORIGINAL (Red)

100330

MASS SPECTRUM
05/23/90 12:04:00 + 18:16
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C565 DIBENZOFURAN
ENHANCED (S 15B 2N 0T)

DATA: T2726 #1096
CALI: T2726 #2

BASE M/Z: 168
RIC: 128384.



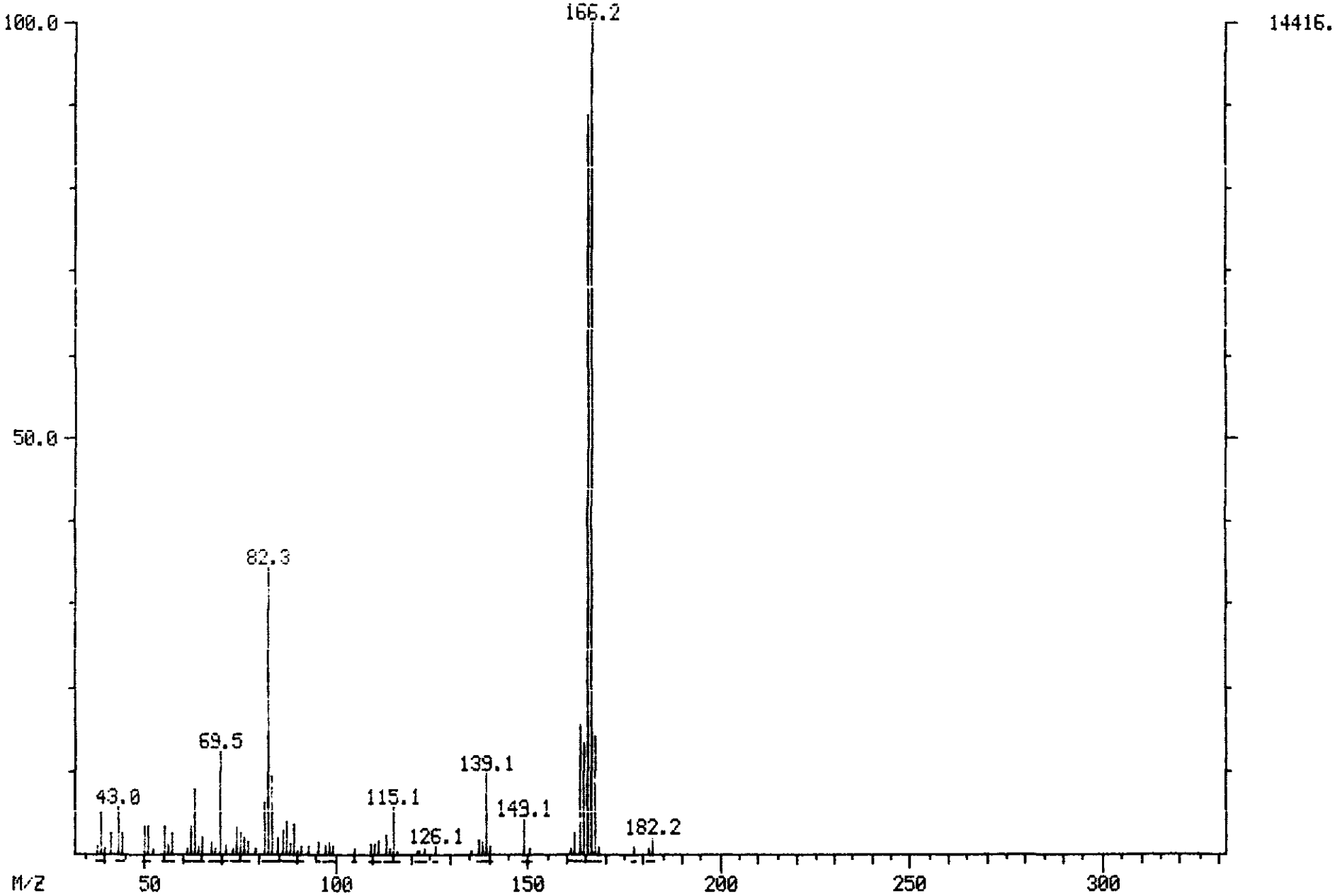
ORIGINAL

100331

MASS SPECTRUM
05/23/90 15:46:00 + 19:22
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C590 FLUORENE

DATA: T2729 #1162
CALI: T2729 #2

BASE M/Z: 166
RIC: 61696.

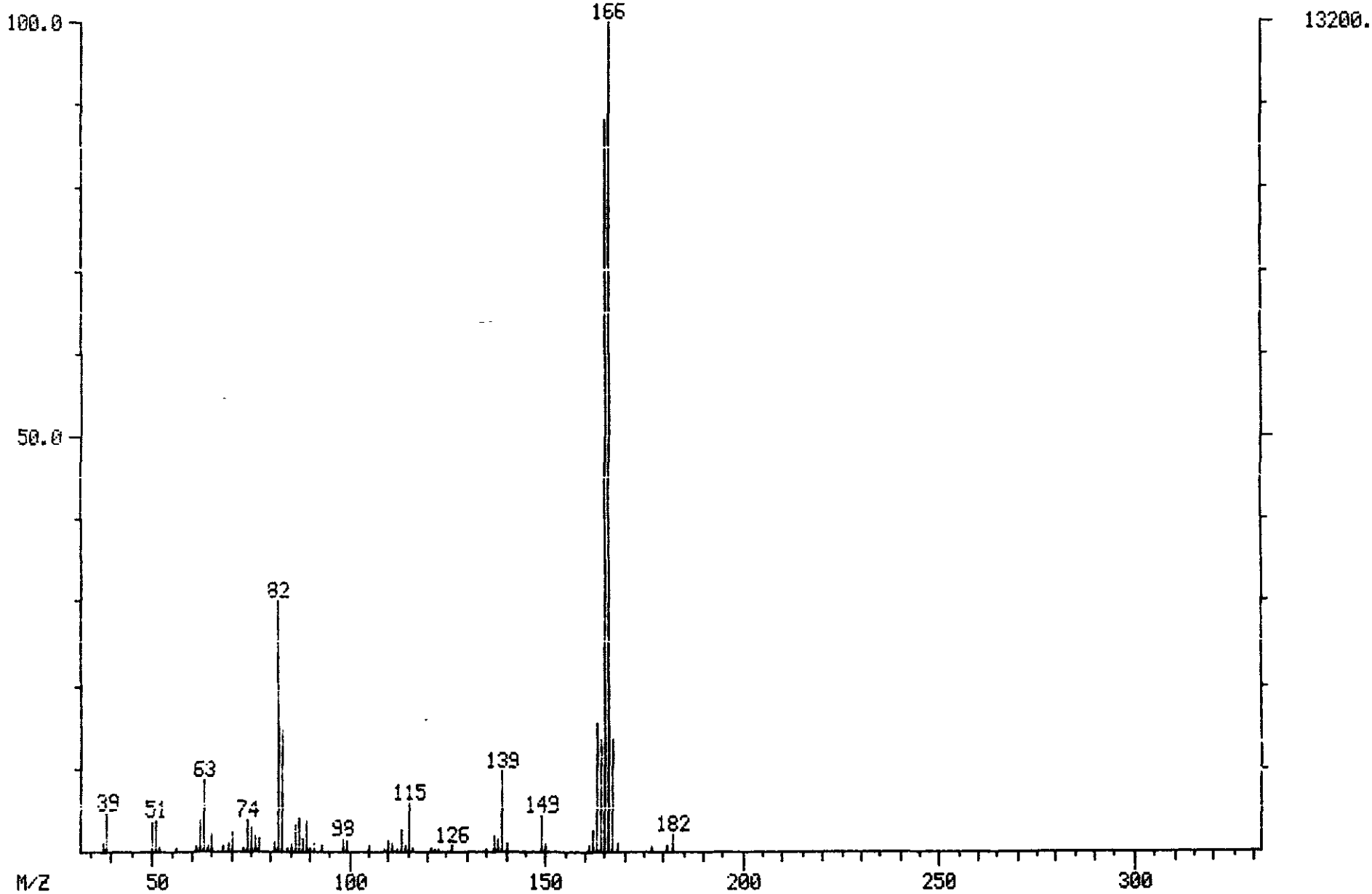


100332

MASS SPECTRUM
05/23/90 15:46:00 + 19:22
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C590 FLUORENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1162
CALI: T2729 #2

BASE M/Z: 166
RIC: 51328.



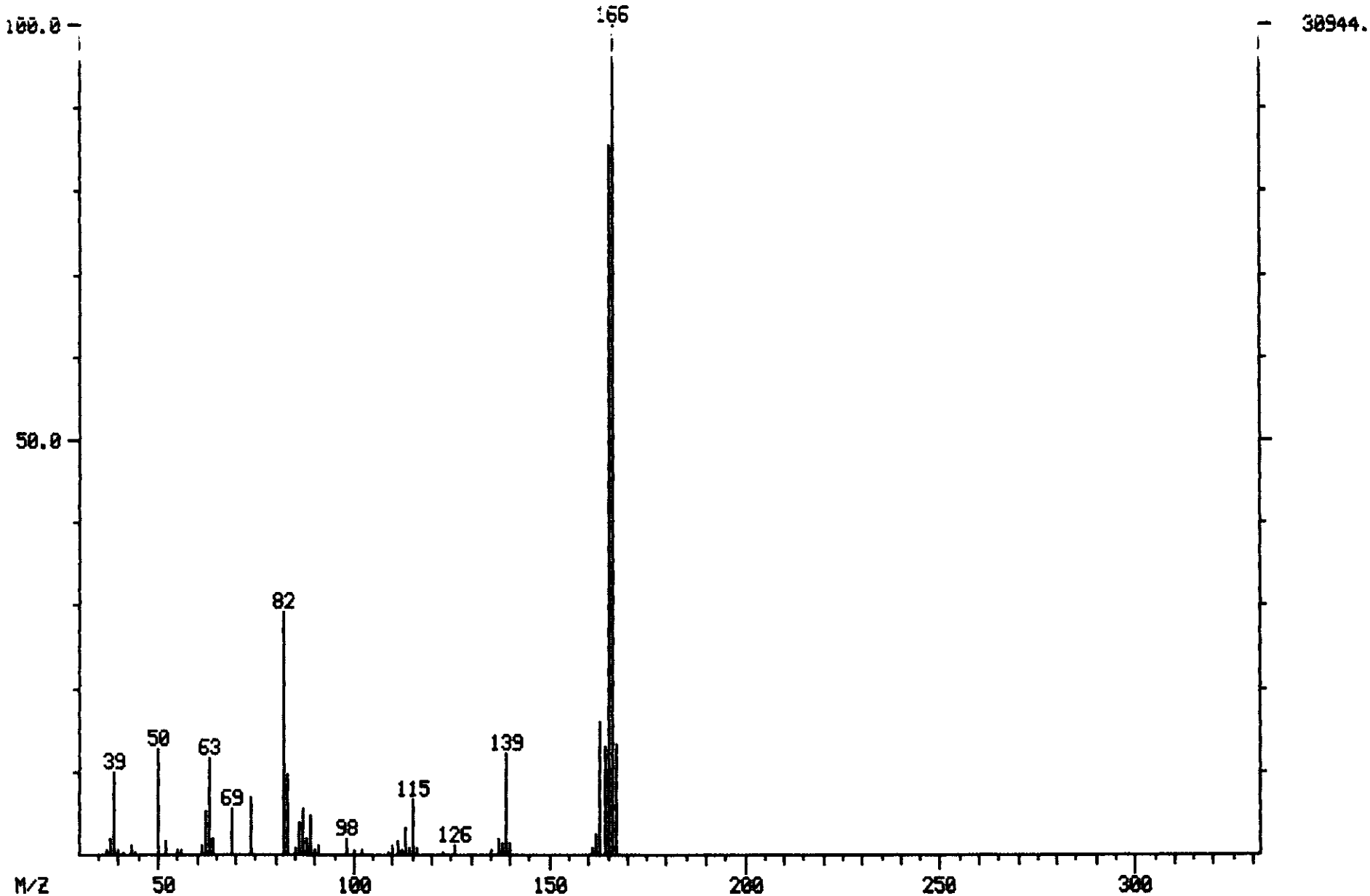
ORIGINAL (Red)

100333

MASS SPECTRUM
05/16/90 17:01:00 + 19:49
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C590 FLUORENE
ENHANCED (S 15B 2N 8T)

DATA: T2624 #1189
CALI: T2624 #2

BASE M/Z: 166
RIC: 120320.



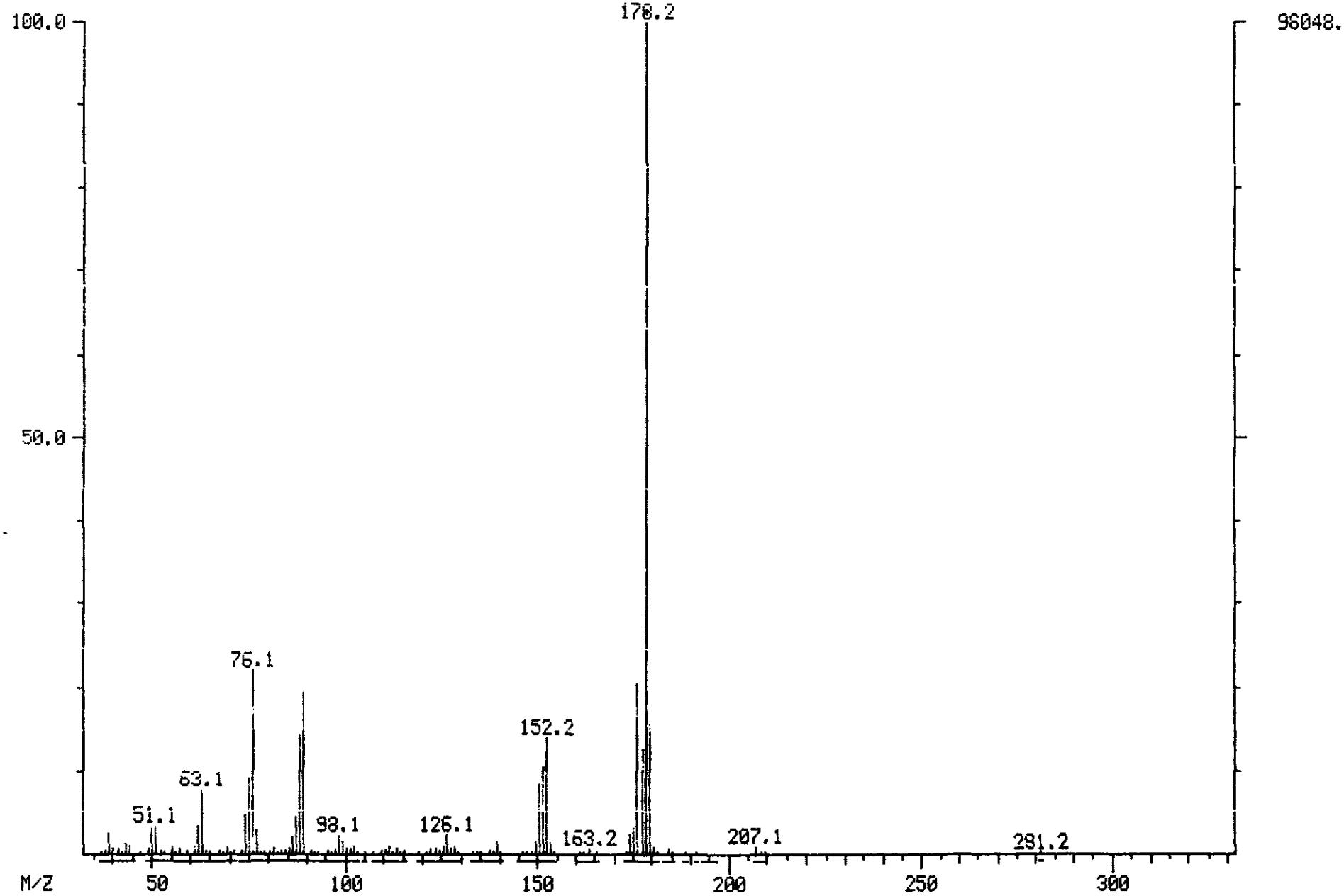
ORIGINAL (Red)

100324

MASS SPECTRUM
05/23/90 15:46:00 + 22:24
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C640 PHENANTHRENE

DATA: T2729 #1344
CALI: T2729 #2

BASE M/Z: 178
RIC: 335872.



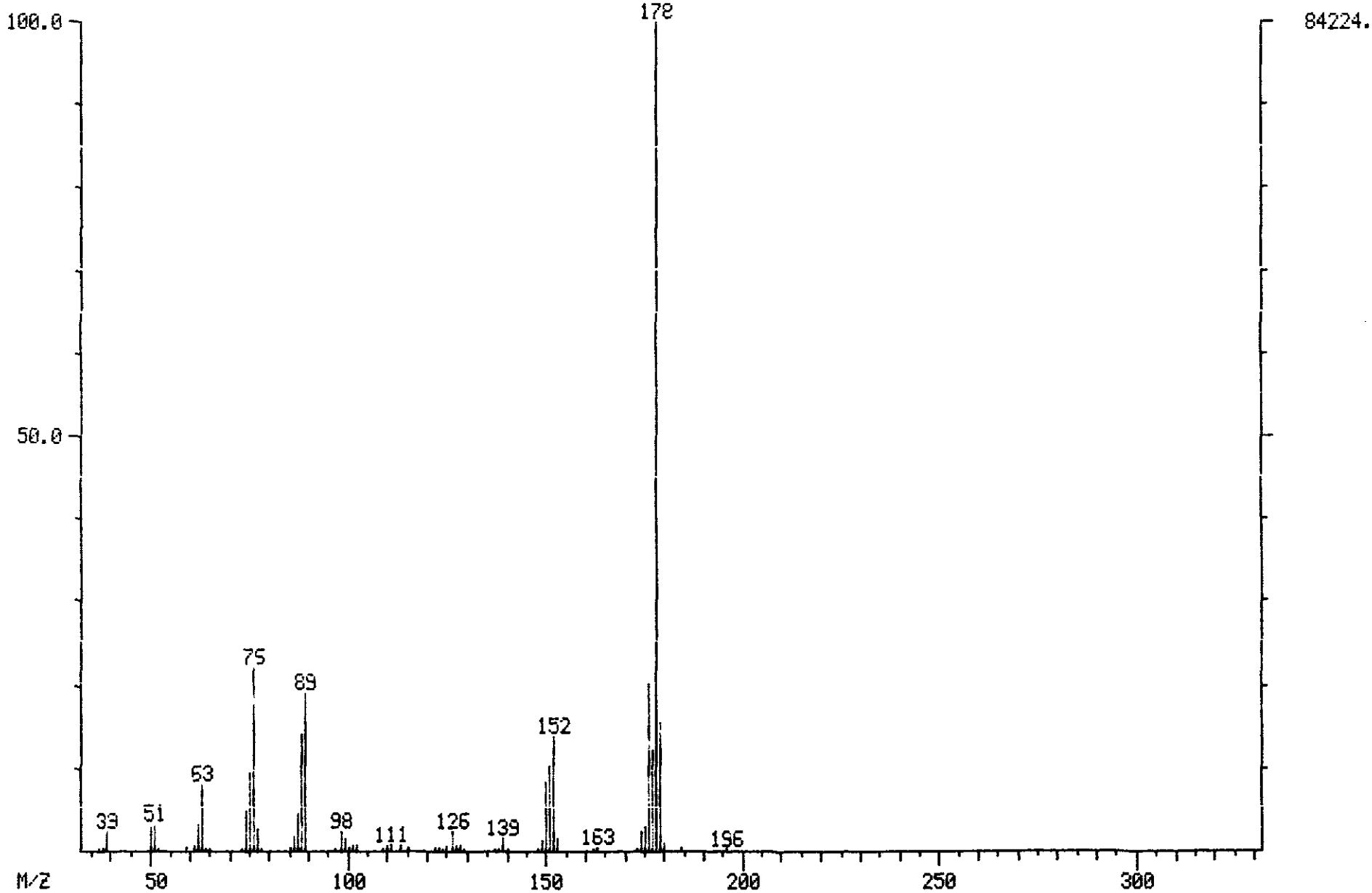
ORIGINAL (Red)

100335

MASS SPECTRUM
05/23/90 15:46:00 + 22:24
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C640 PHENANTHRENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1344
CALI: T2729 #2

BASE M/Z: 178
RIC: 264704.

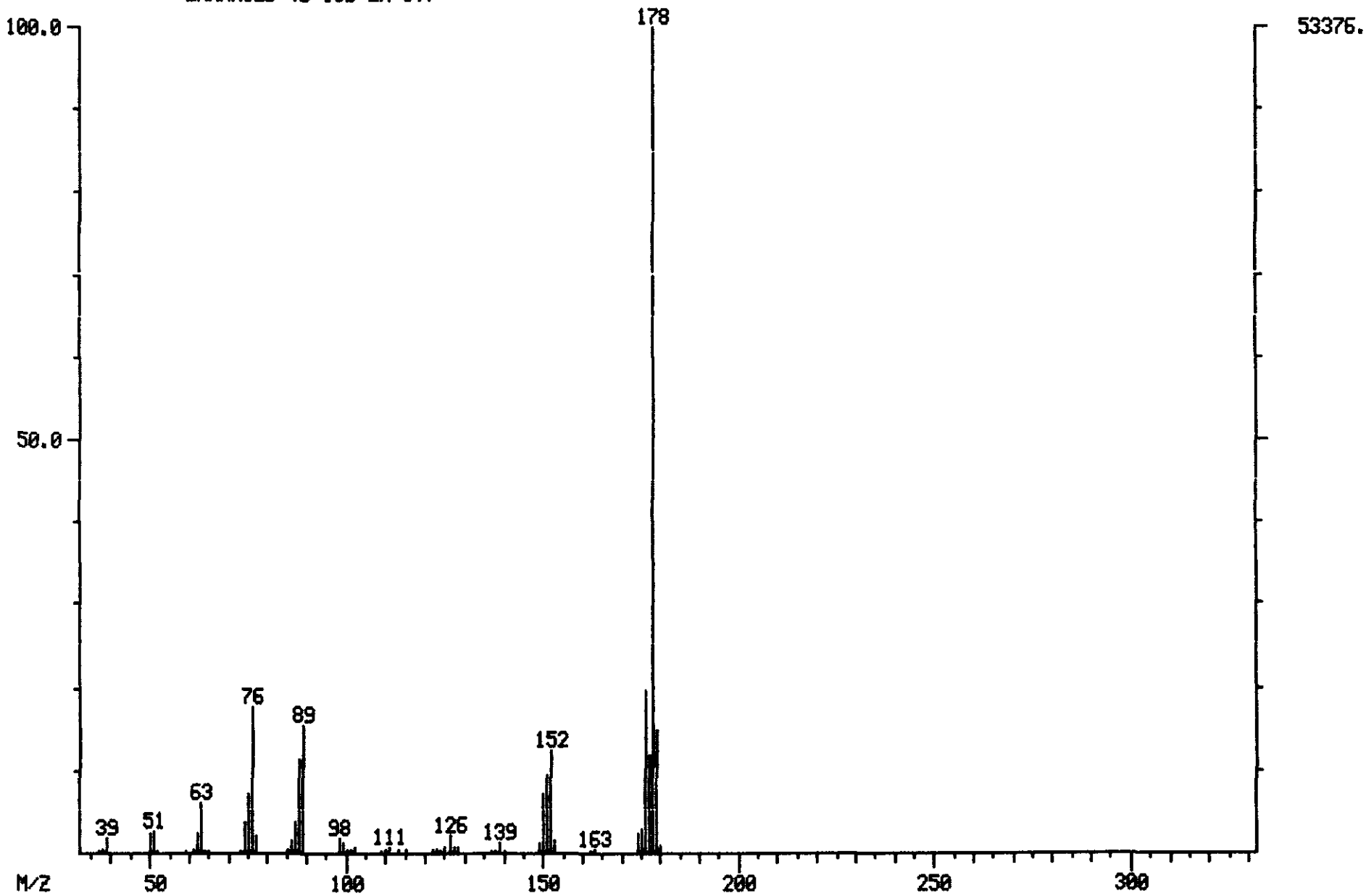


100336

MASS SPECTRUM
05/23/90 12:04:00 + 22:25
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C640 PHENANTHRENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #1345
CALI: T2726 #2

BASE M/Z: 178
RIC: 152064.

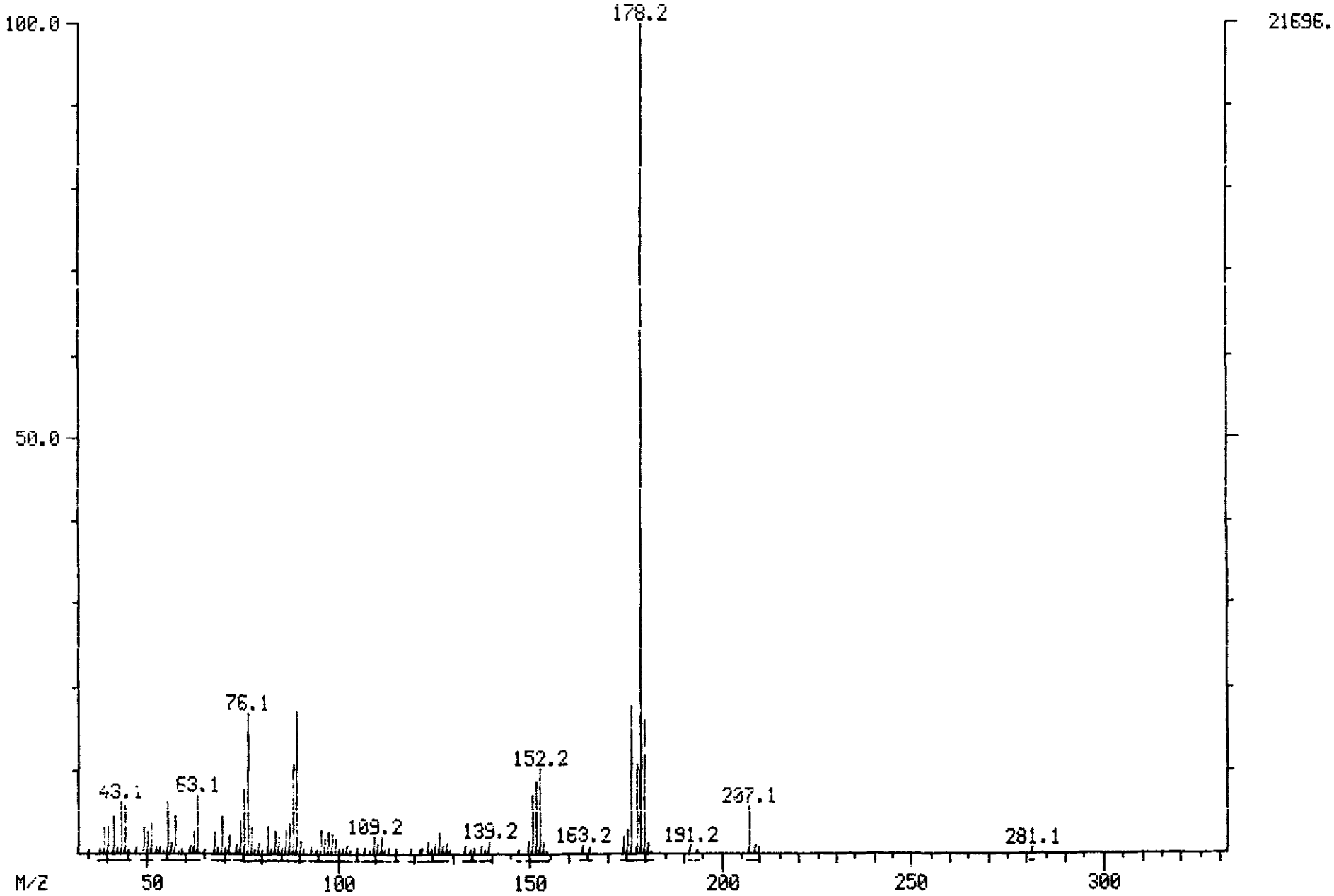


100337

MASS SPECTRUM
05/23/90 15:46:00 + 22:31
SAMPLE: CLP,VERSCOM,2565,12,L,5,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C645 ANTHRACENE

DATA: T2729 #1351
CALI: T2729 #2

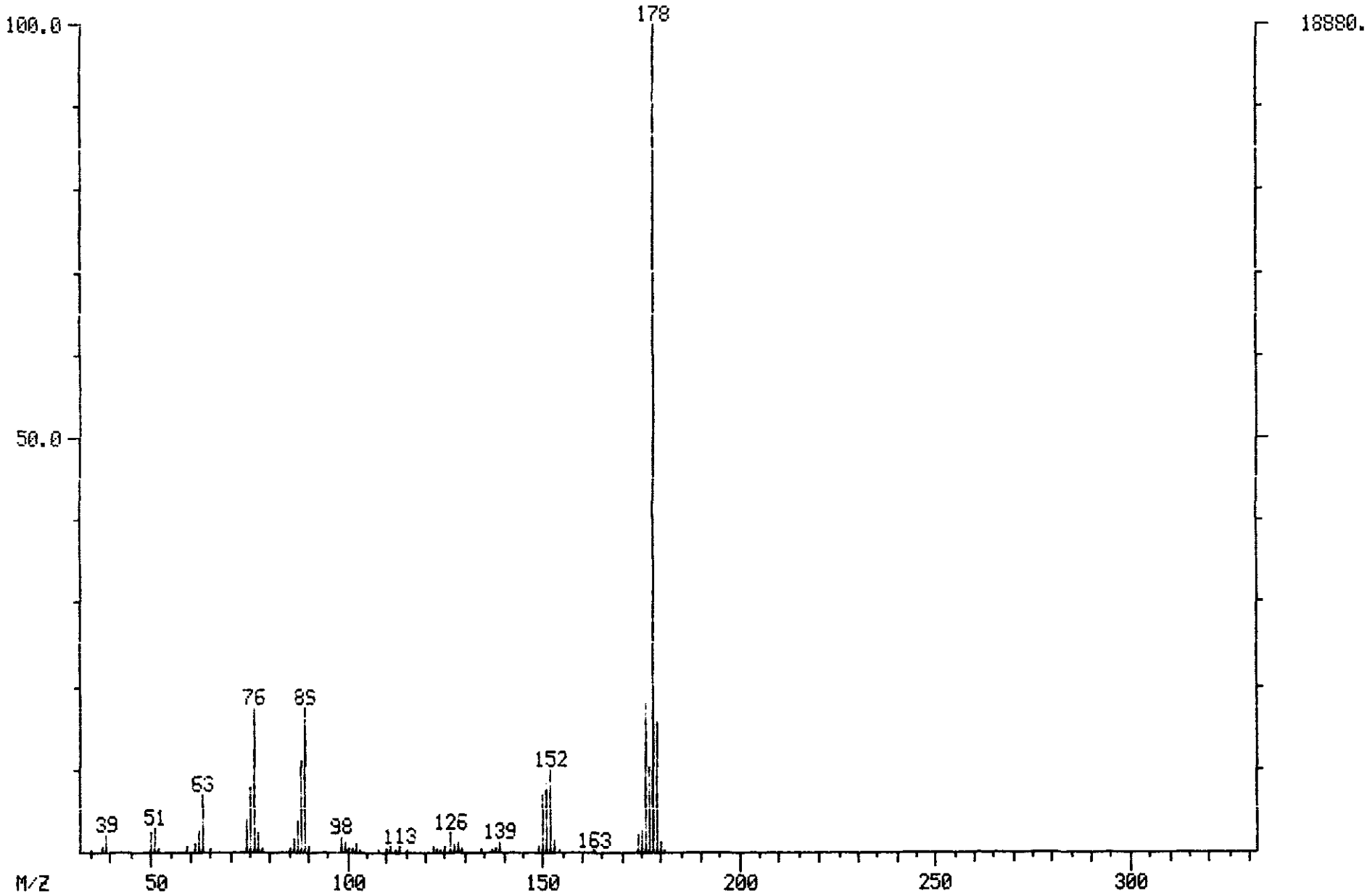
BASE M/Z: 178
RIC: 86016.



MASS SPECTRUM
05/23/90 15:46:00 + 22:31
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C645 ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1351
CALI: T2729 #2

BASE M/Z: 178
RIC: 54400.



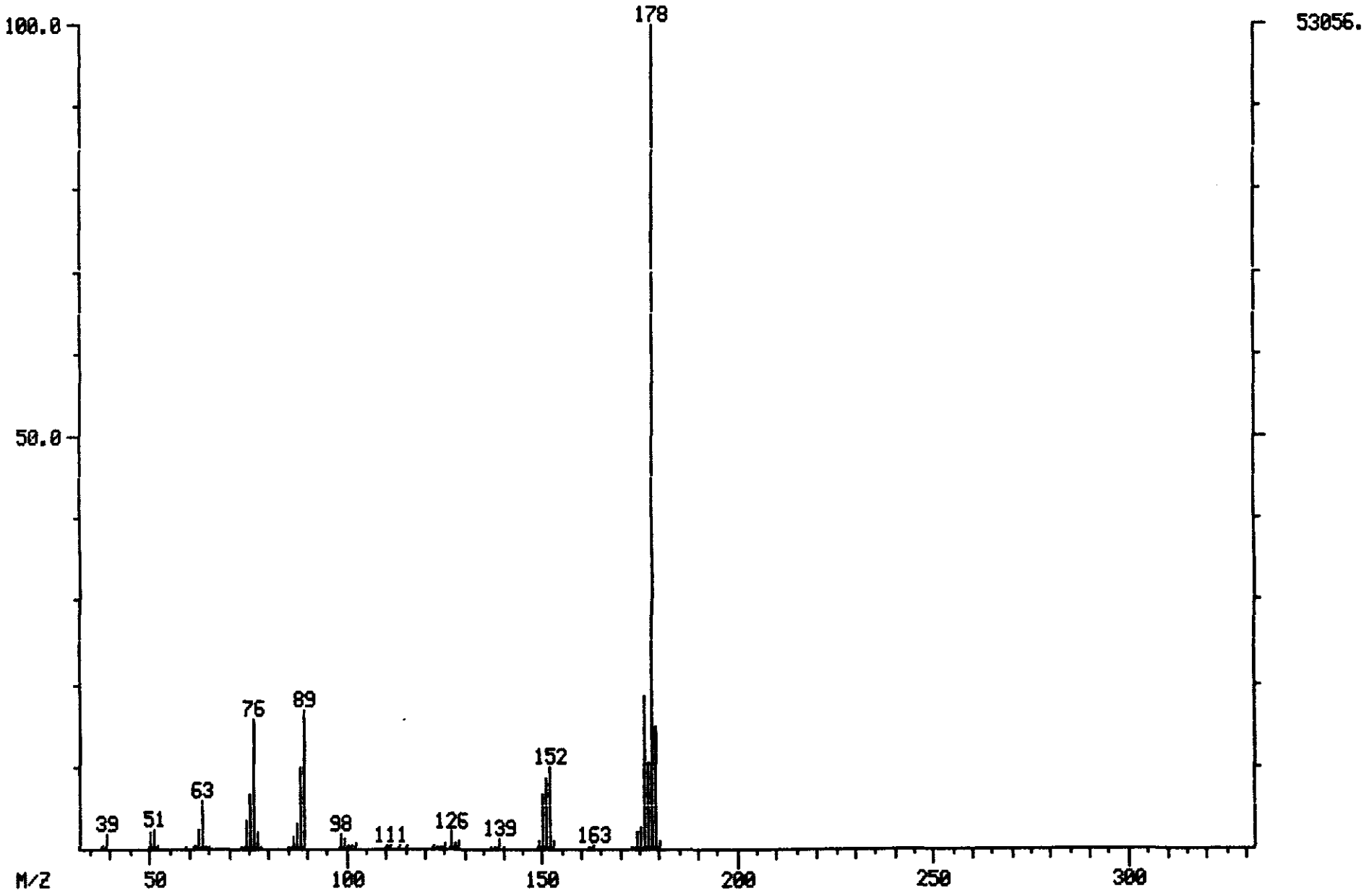
100338

MASS SPECTRUM
05/23/90 12:04:00 + 22:33
SAMPLE: CLP,,,SSTD 50,,,22734,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C645 ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #1353
CALI: T2726 #2

BASE M/Z: 178
RIC: 144640.

100339



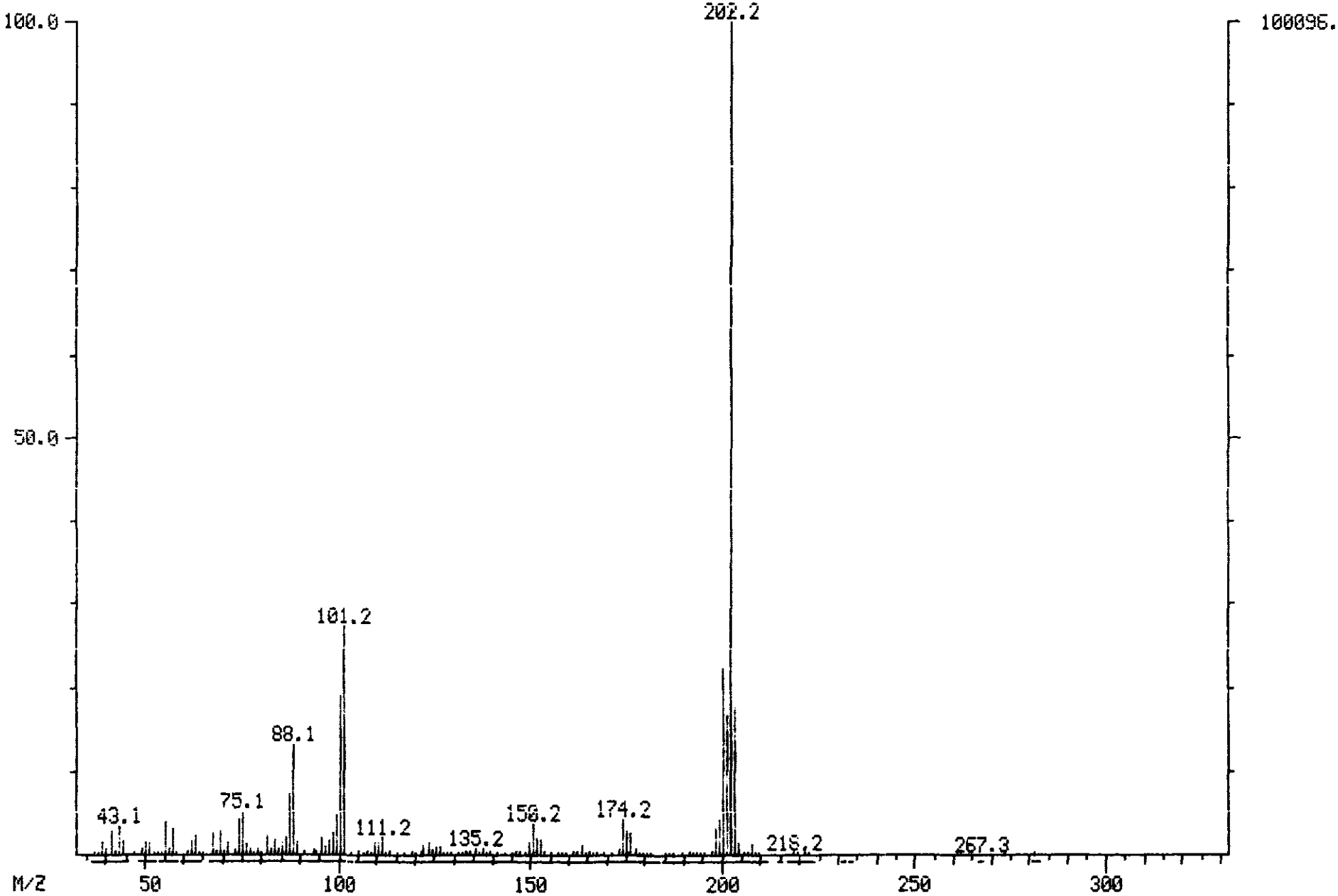
ORIGINAL (Red)

100340

MASS SPECTRUM
05/23/90 15:46:00 + 26:13
SAMPLE: CLP,VERSCDM,2565,12,L,5,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C655 FLUORANTHENE

DATA: T2729 #1573
CALI: T2729 #2

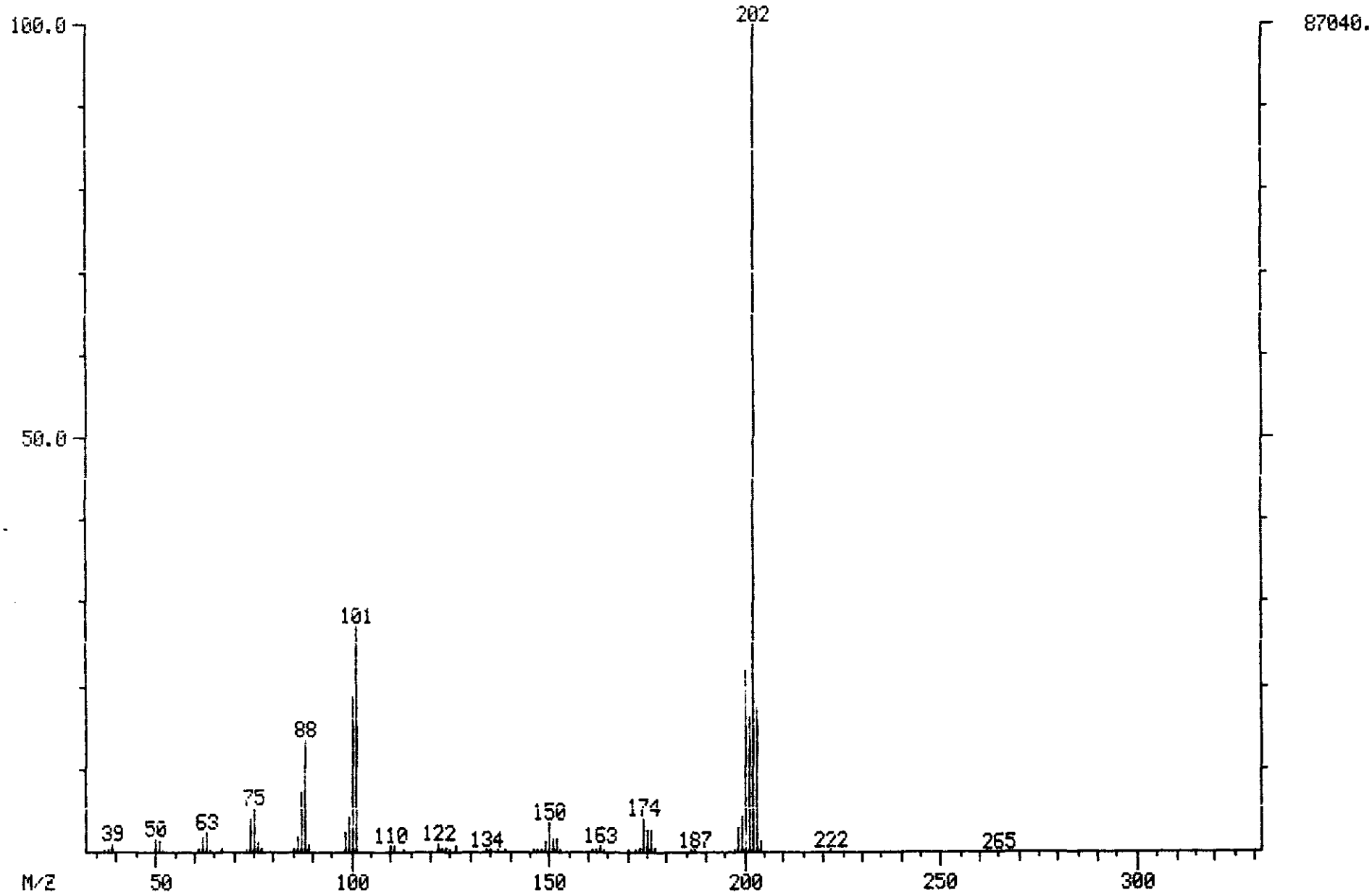
BASE M/Z: 202
RIC: 369152.



MASS SPECTRUM
05/23/90 15:46:00 + 26:13
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420,1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C655 FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1573
CALI: T2729 #2

BASE M/Z: 202
RIC: 256512.

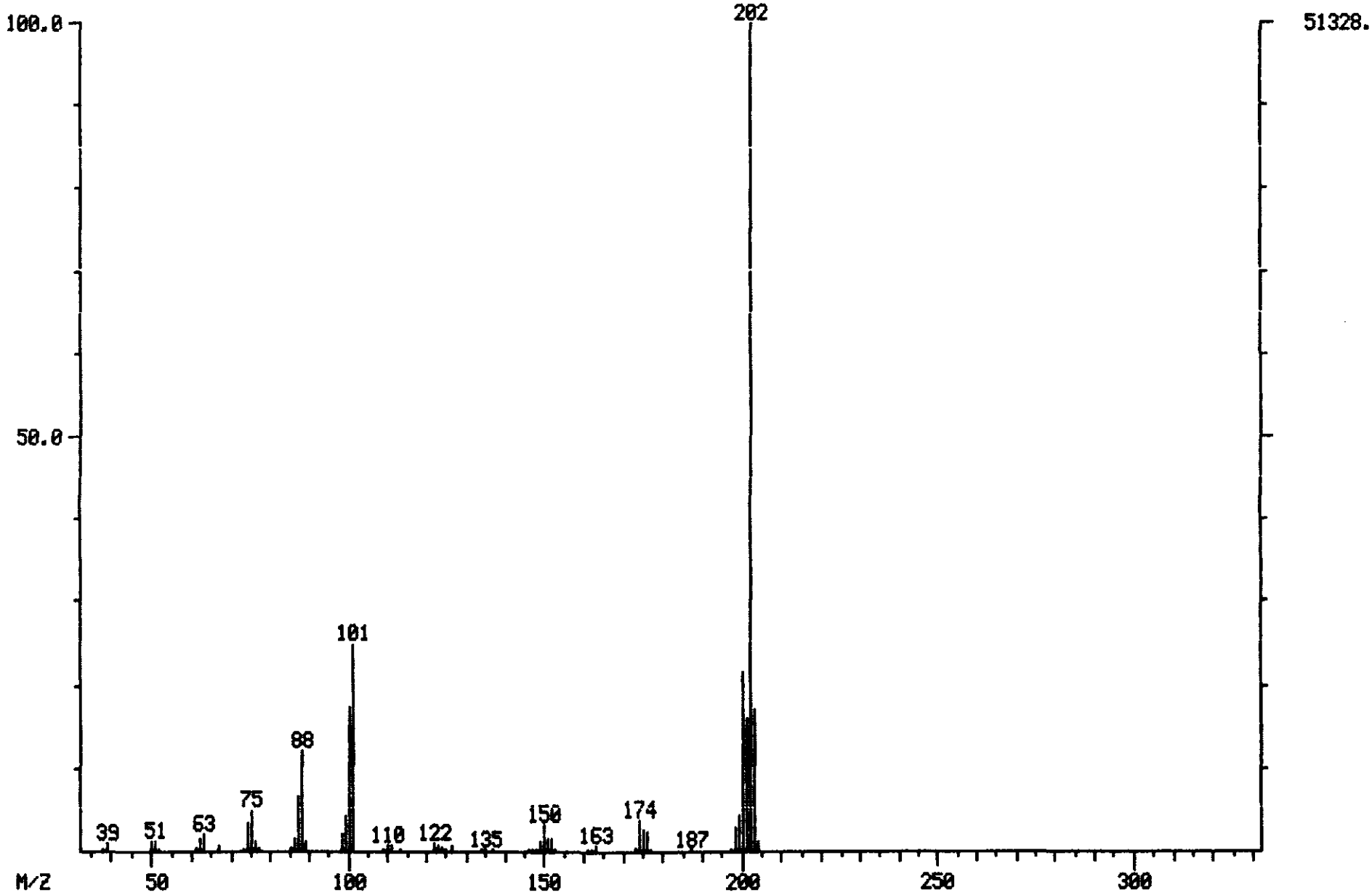


100342

MASS SPECTRUM
05/23/90 12:04:00 + 26:16
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C655 FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #1576
CALI: T2726 #2

BASE M/Z: 202
RIC: 145664.



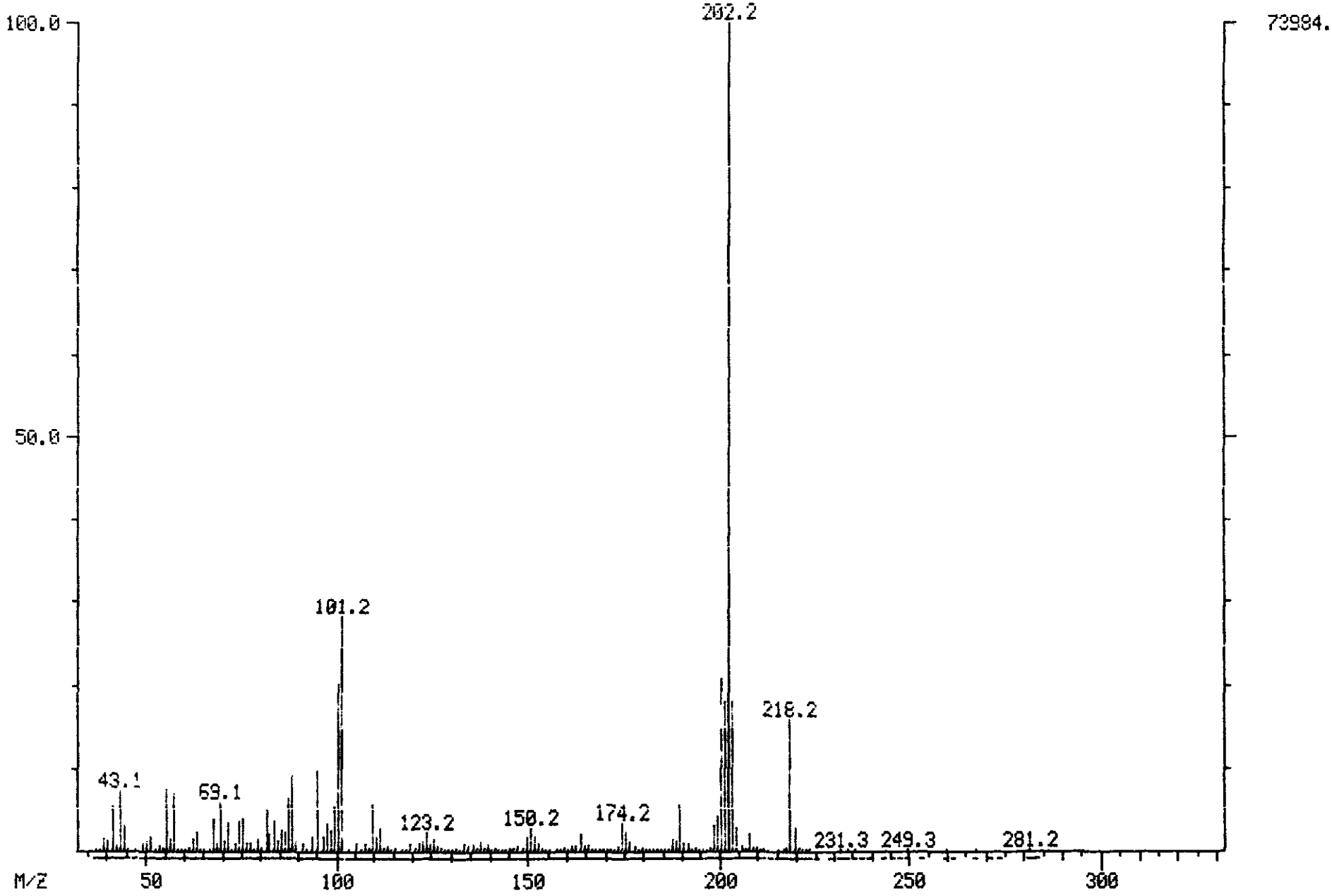
ORIGINAL (Red)

100343

MASS SPECTRUM
05/23/90 15:46:00 + 26:55
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C715 PYRENE

DATA: T2729 #1615
CALI: T2729 #2

BASE M/Z: 202
RIC: 339968.

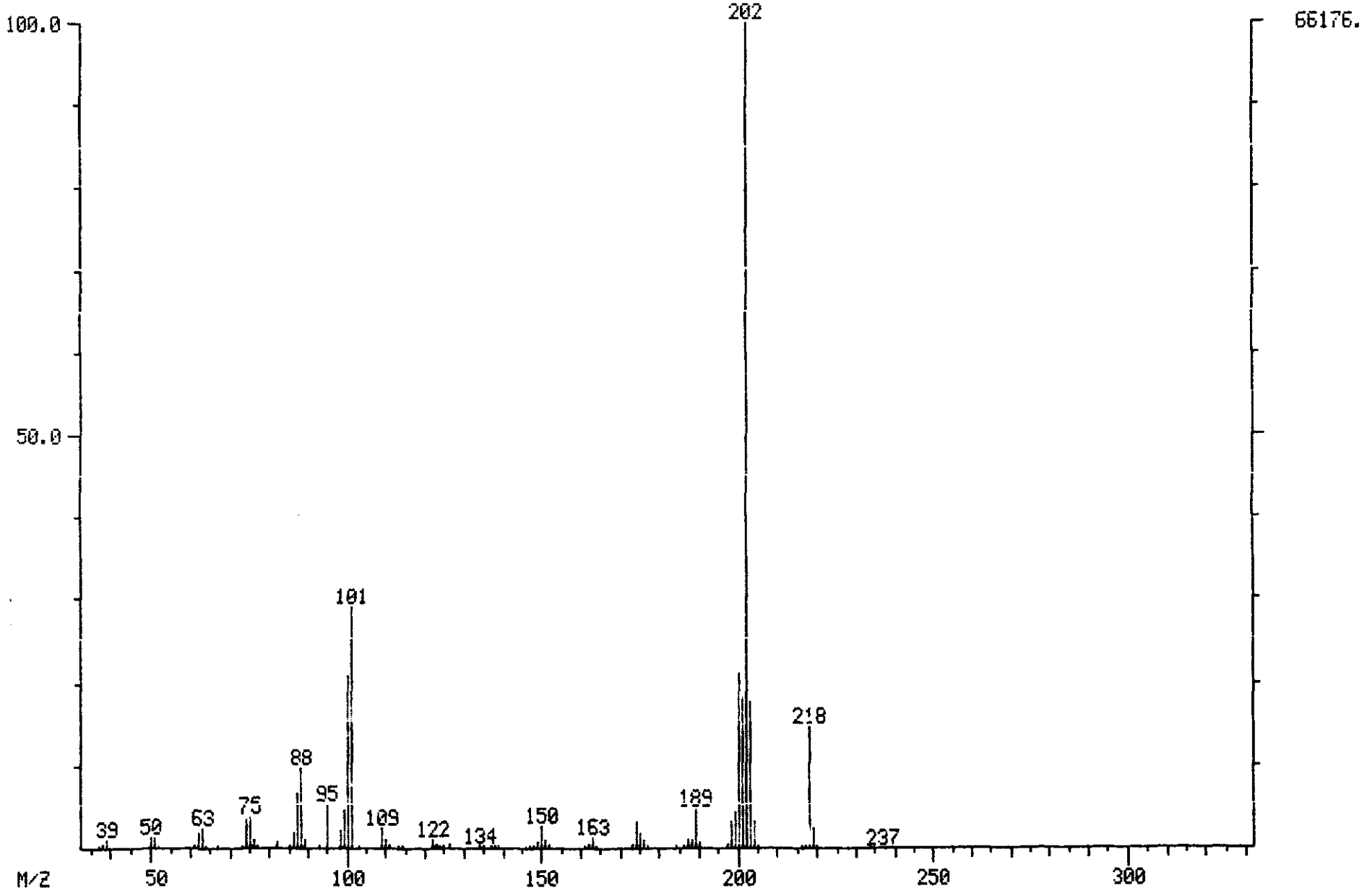


MASS SPECTRUM
05/23/90 15:46:00 + 26:55
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C715 PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1615
CALI: T2729 #2

BASE M/Z: 202
RIC: 214016.

100344



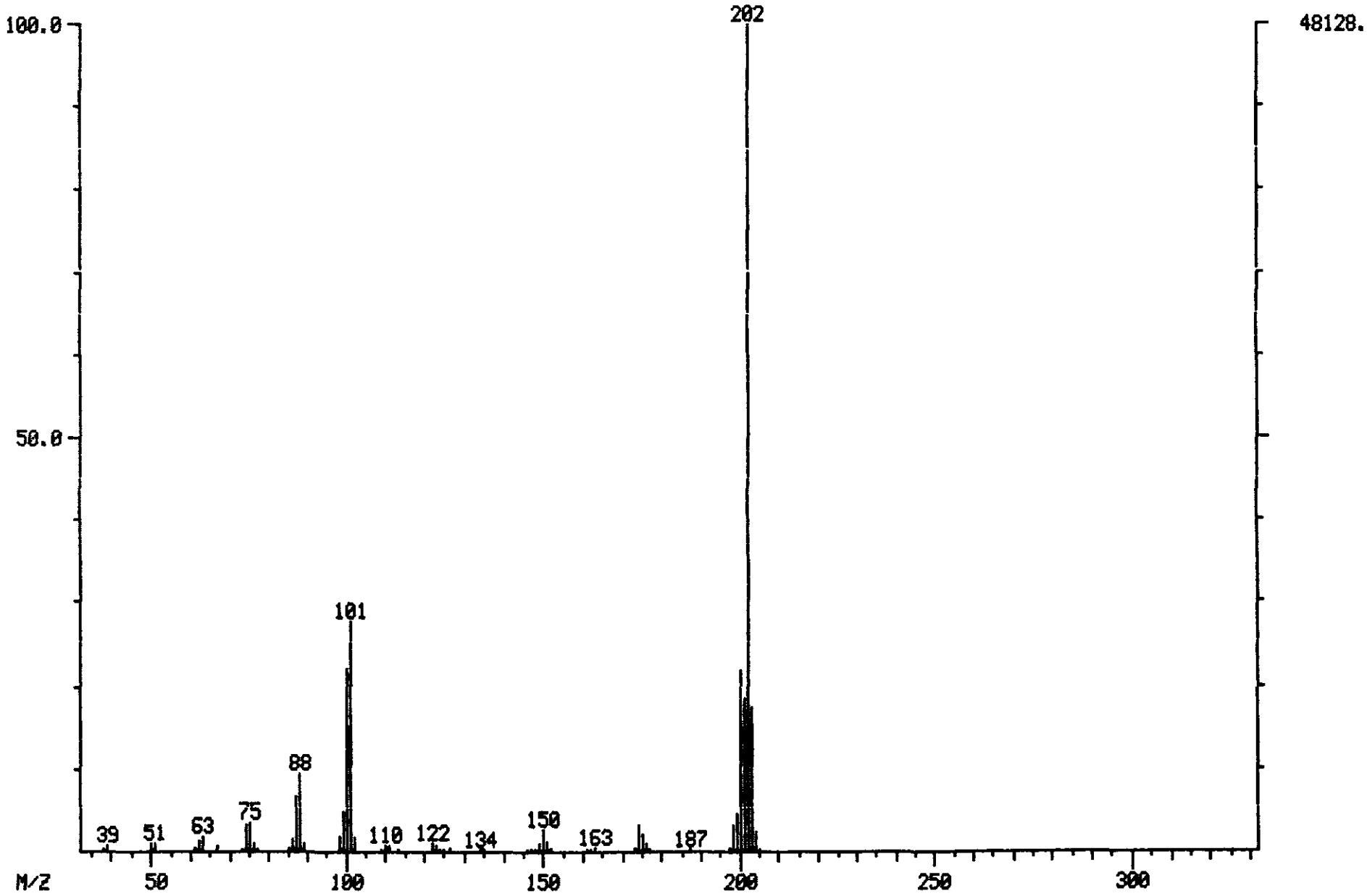
ORIGINAL (Red)

MASS SPECTRUM
05/23/90 12:04:00 + 26:59
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C715 PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #1619
CALI: T2726 #2

BASE M/Z: 202
RIC: 136960.

100345



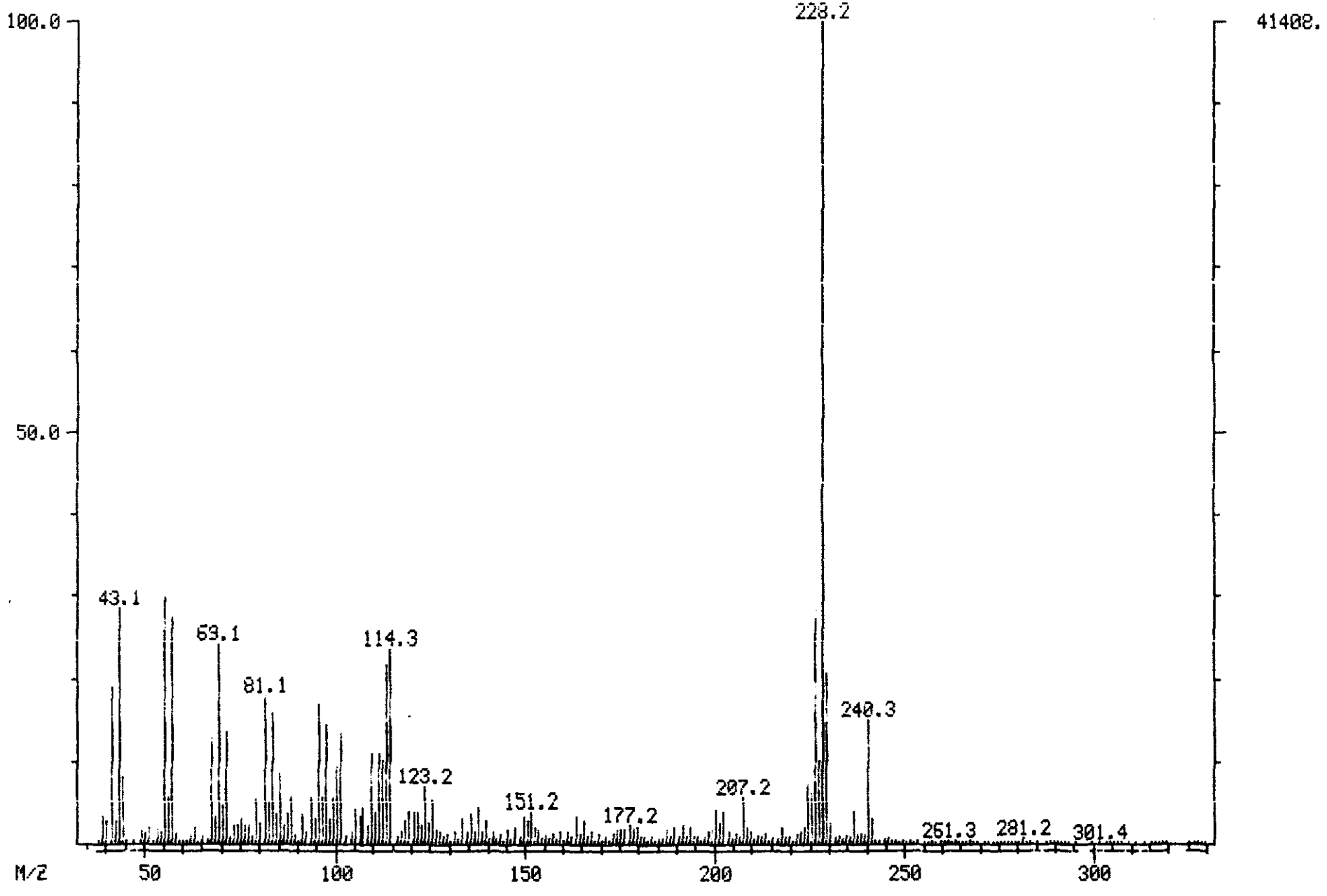
ORIGINAL (Red)

100346

MASS SPECTRUM
05/23/90 15:46:00 + 30:47
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C730 BENZO(A)ANTHRACENE

DATA: T2729 #1847
CALI: T2729 #2

BASE M/Z: 228
RIC: 366592.



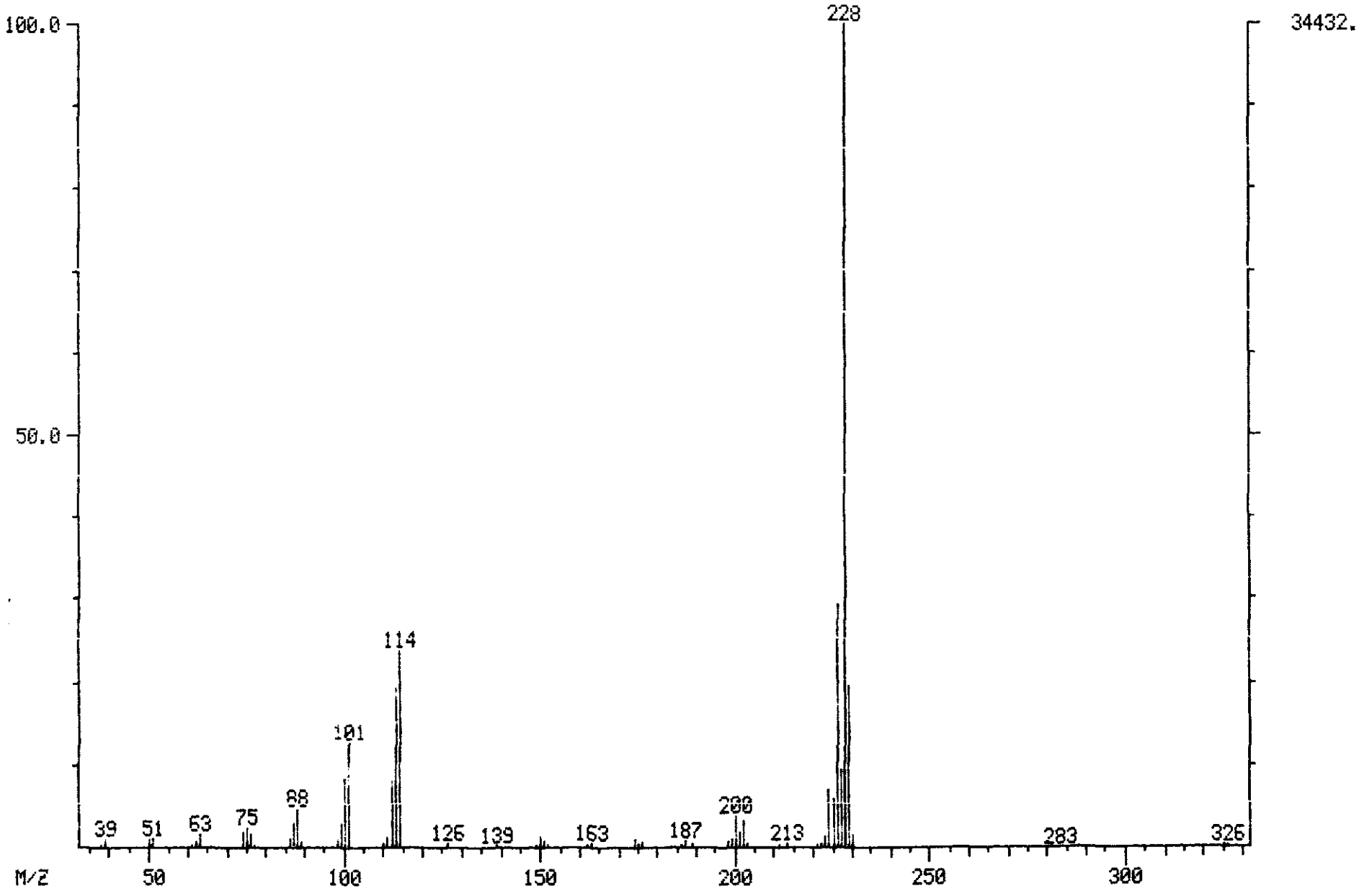
ORIGINAL (Red)

100347

MASS SPECTRUM
05/23/90 15:46:00 + 30:47
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C730 BENZO(A)ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1847
CALI: T2729 #2

BASE M/Z: 228
RIC: 102400.



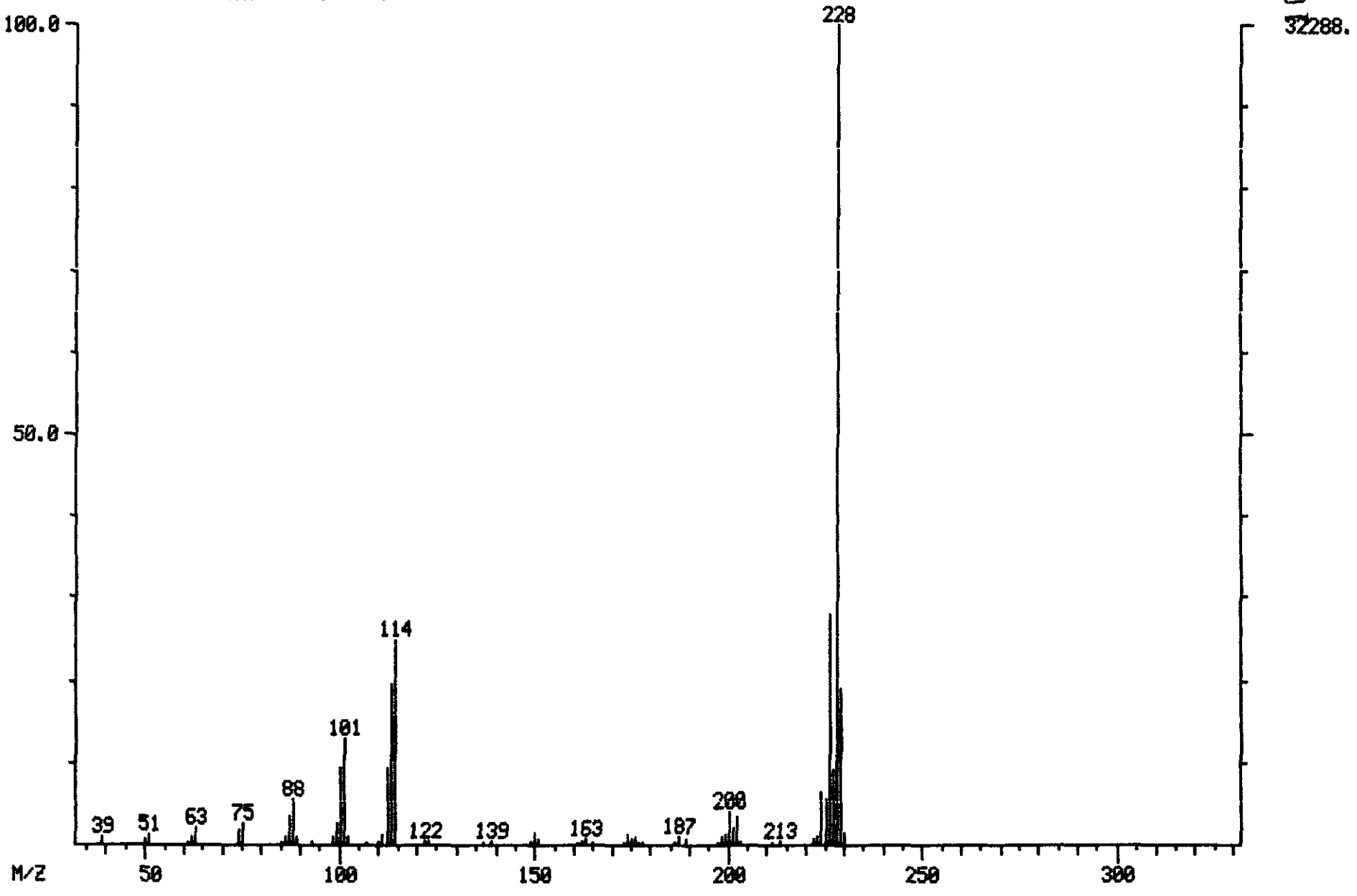
ORIGINAL (Red)

MASS SPECTRUM
05/23/90 12:04:00 + 30:53
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C730 BENZO(A)ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #1853
CALI: T2726 #2

BASE M/Z: 228
RIC: 99072.

100348



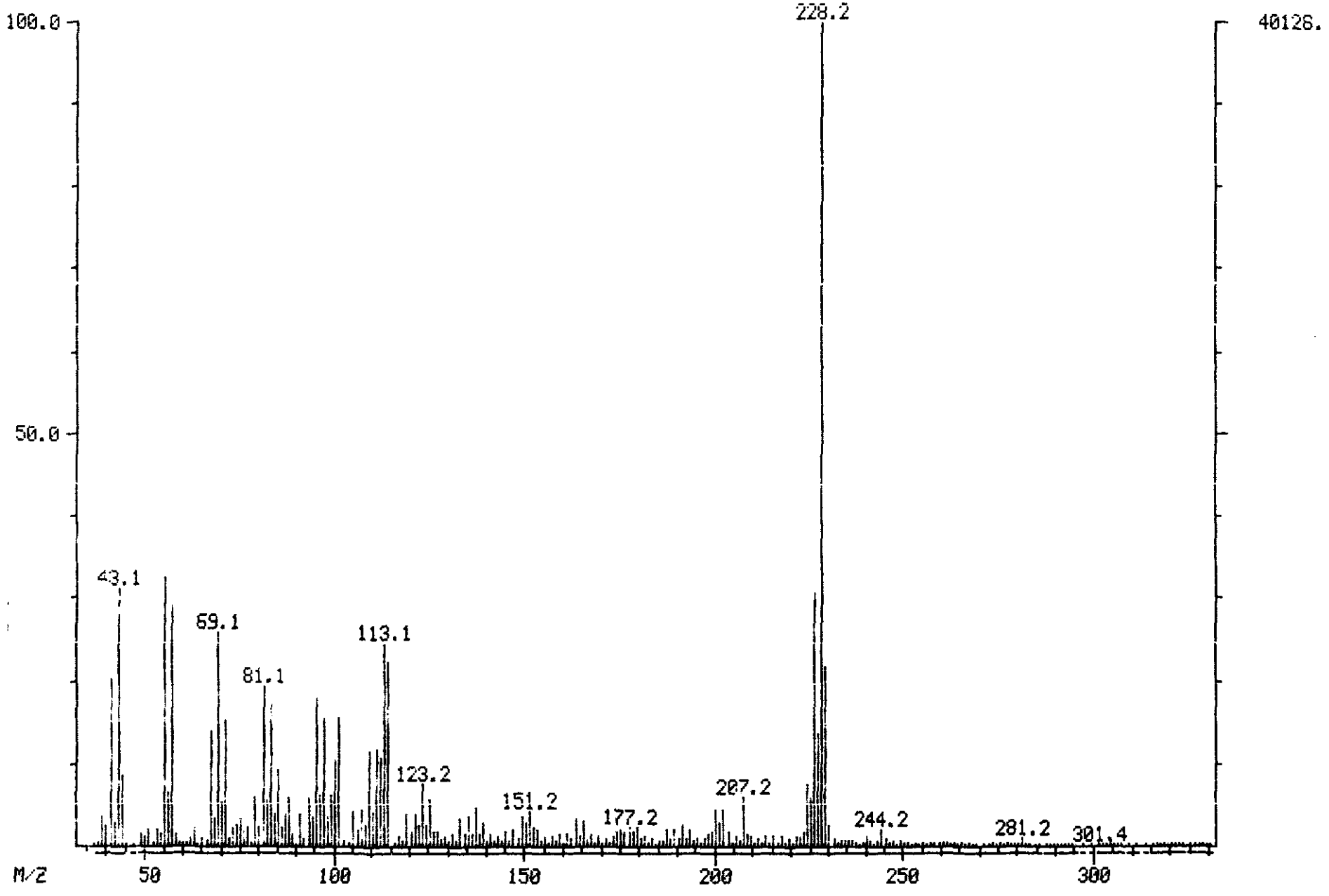
ORIGINAL (Red)

MASS SPECTRUM
05/23/90 15:46:00 + 30:55
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C740 CHRYSENE

DATA: T2729 #1855
CALI: T2729 #2

BASE M/Z: 228
RIC: 359424.

100349

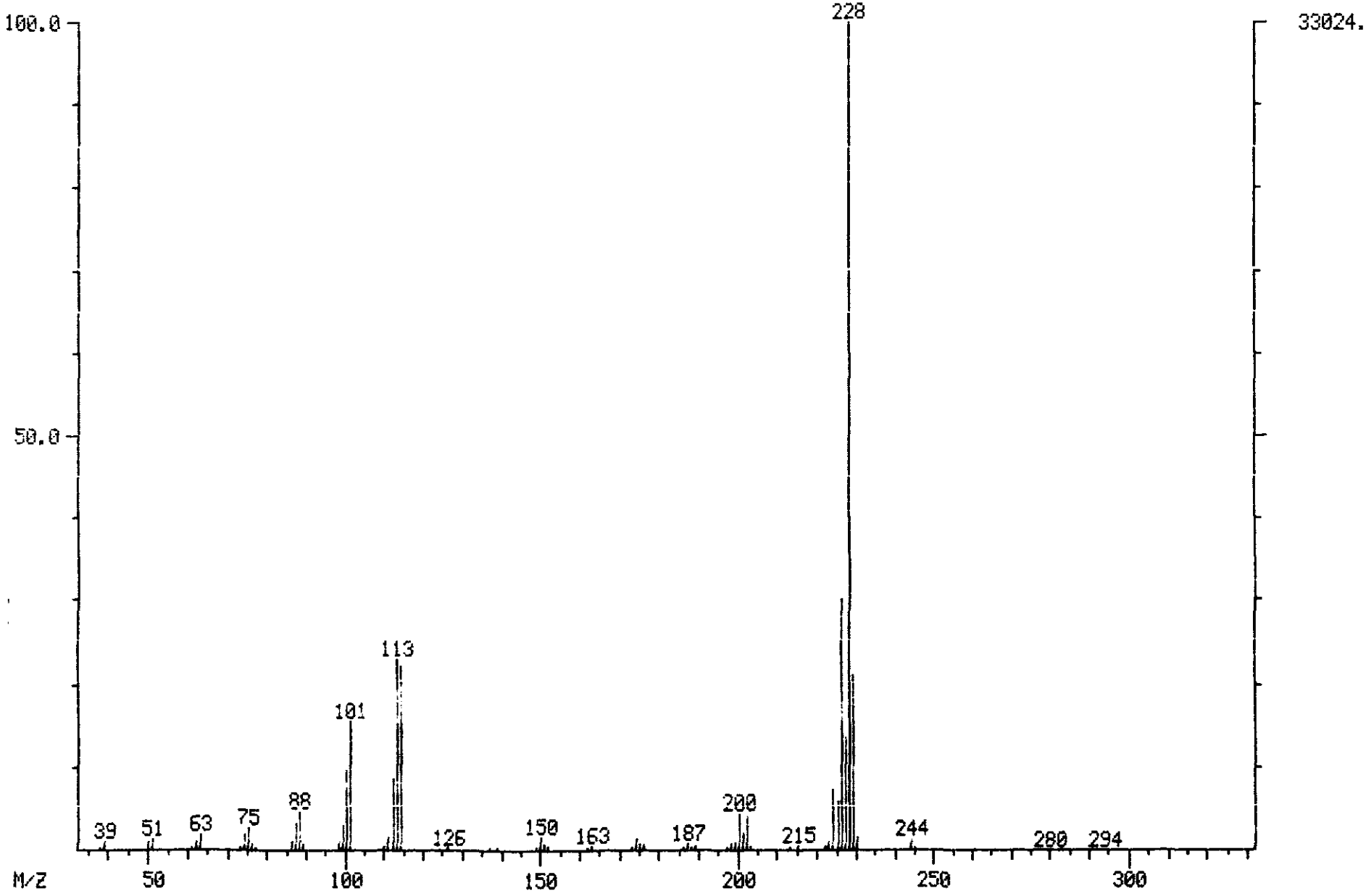


MASS SPECTRUM
05/23/90 15:46:00 + 30:55
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C740 CHRYSENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1855
CALI: T2729 #2

BASE M/Z: 228
RIC: 104320.

100350

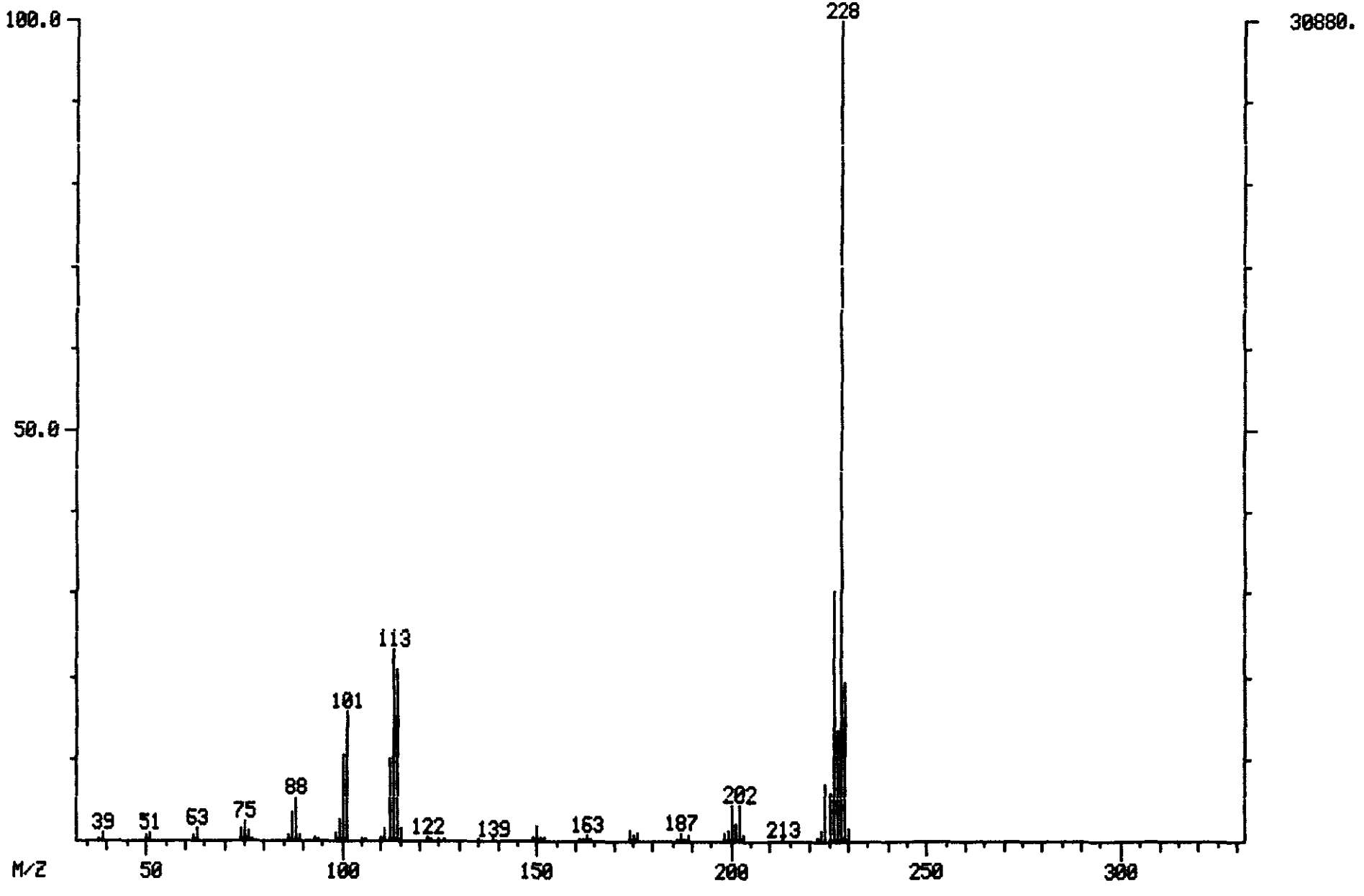


10035

MASS SPECTRUM
05/23/90 12:04:00 + 31:01
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C740 CHRYSENE
ENHANCED (5 15B 2N 0T)

DATA: T2726 #1861
CALI: T2726 #2

BASE M/Z: 228
RIC: 98688.

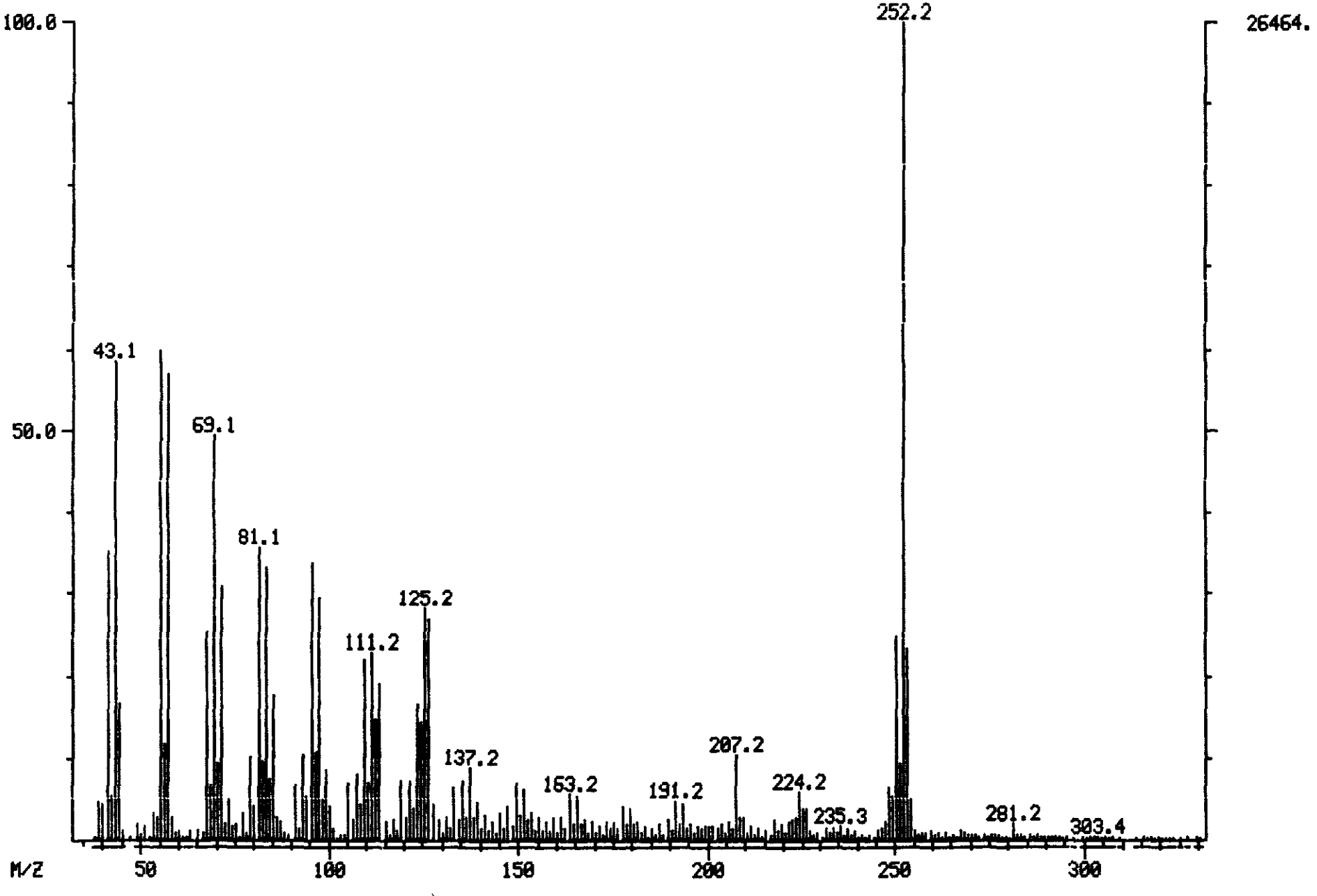


100352

MASS SPECTRUM
05/23/90 15:46:00 + 34:03
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C765 BENZO(B)FLUORANTHENE

DATA: T2729 #2043
CALI: T2729 #2

BASE M/Z: 252
RIC: 358400.



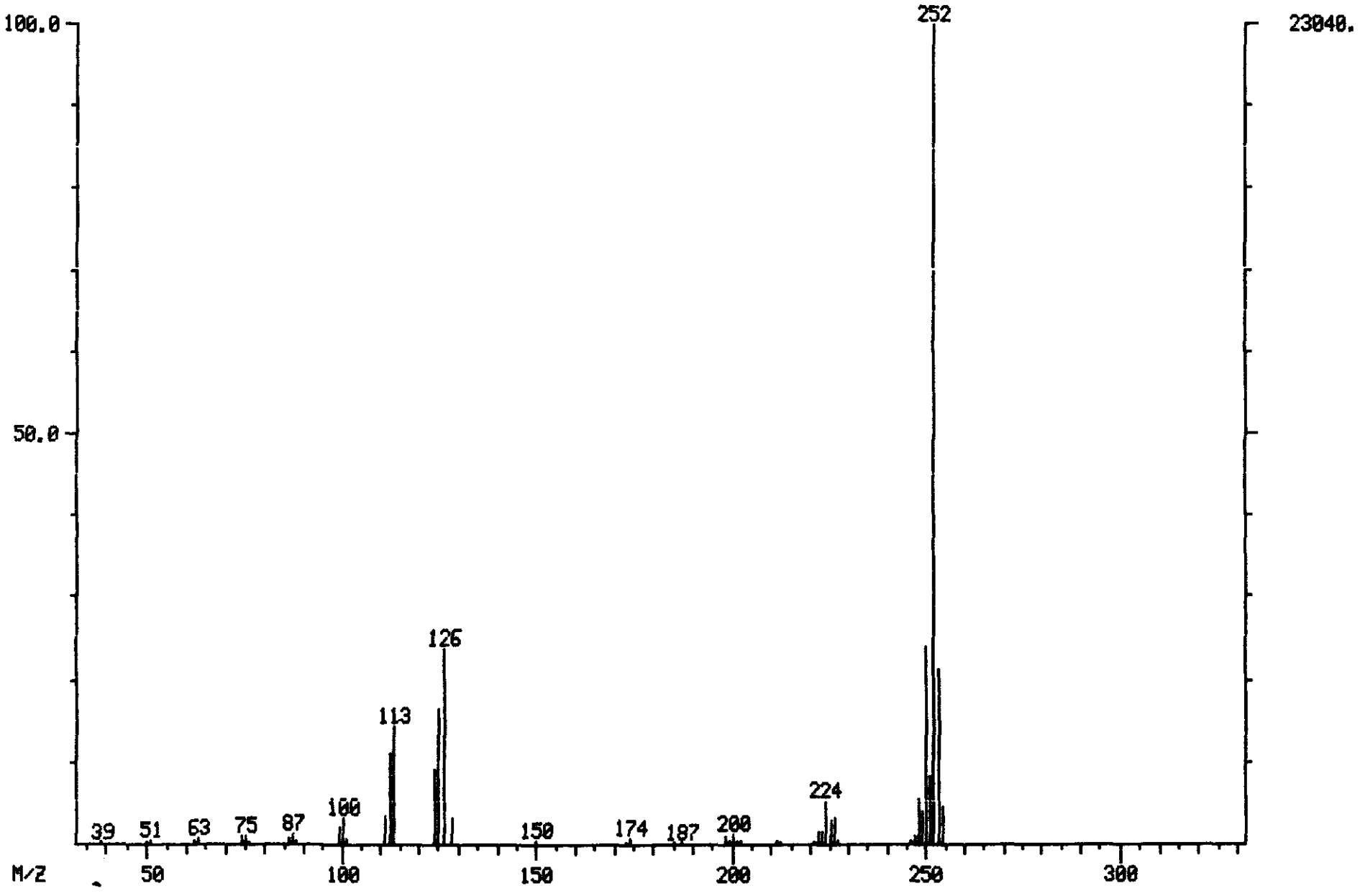
ORIGINAL (Red)

100353

MASS SPECTRUM
05/23/90 15:46:00 + 34:03
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C765 BENZO(B)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #2043
CALI: T2729 #2

BASE M/Z: 252
RIC: 66432.

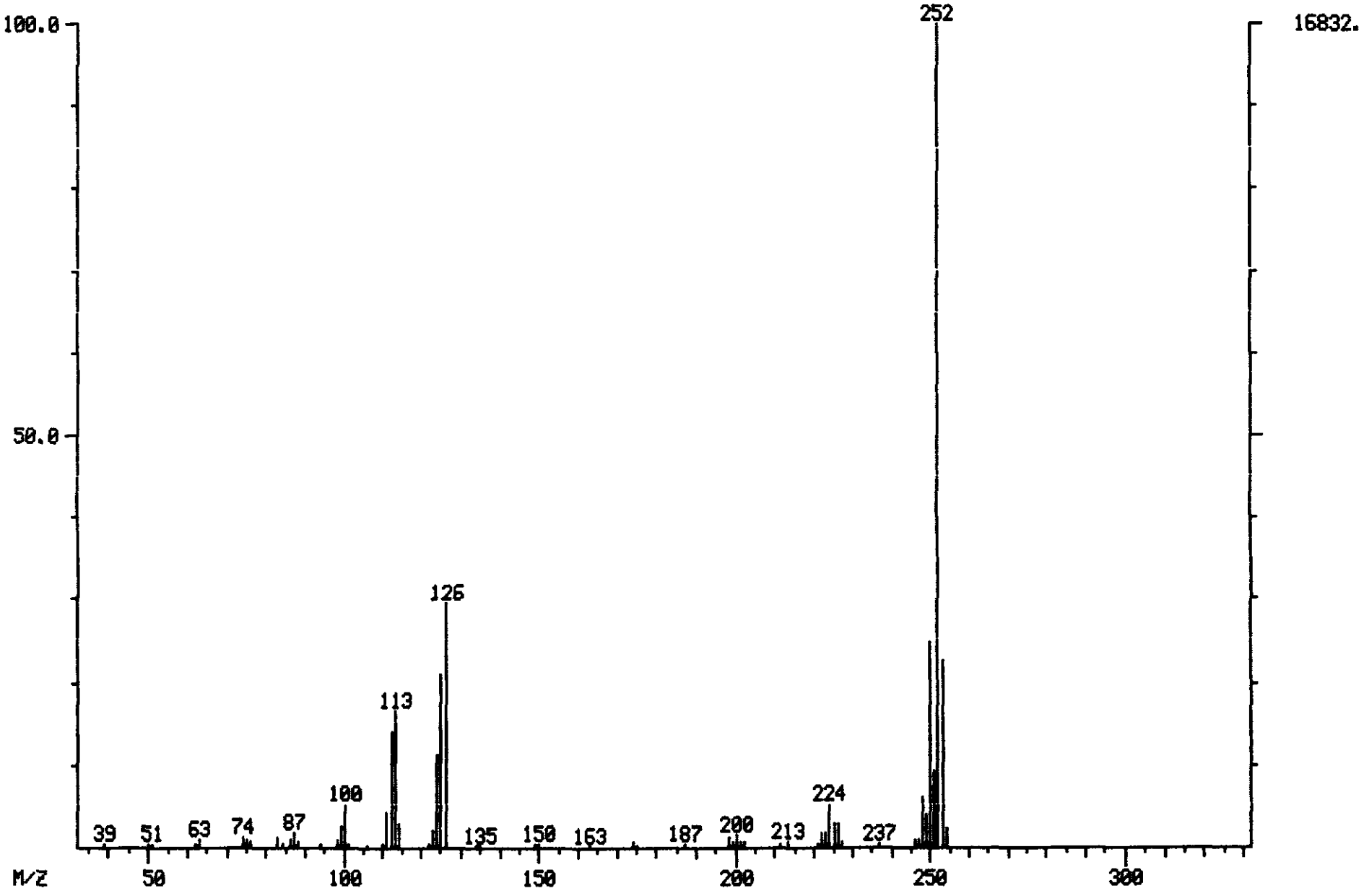


MASS SPECTRUM
05/23/90 12:04:00 + 34:10
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C765 BENZO(B)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #2050
CALI: T2726 #2

BASE M/Z: 252
RIC: 54848.

100354



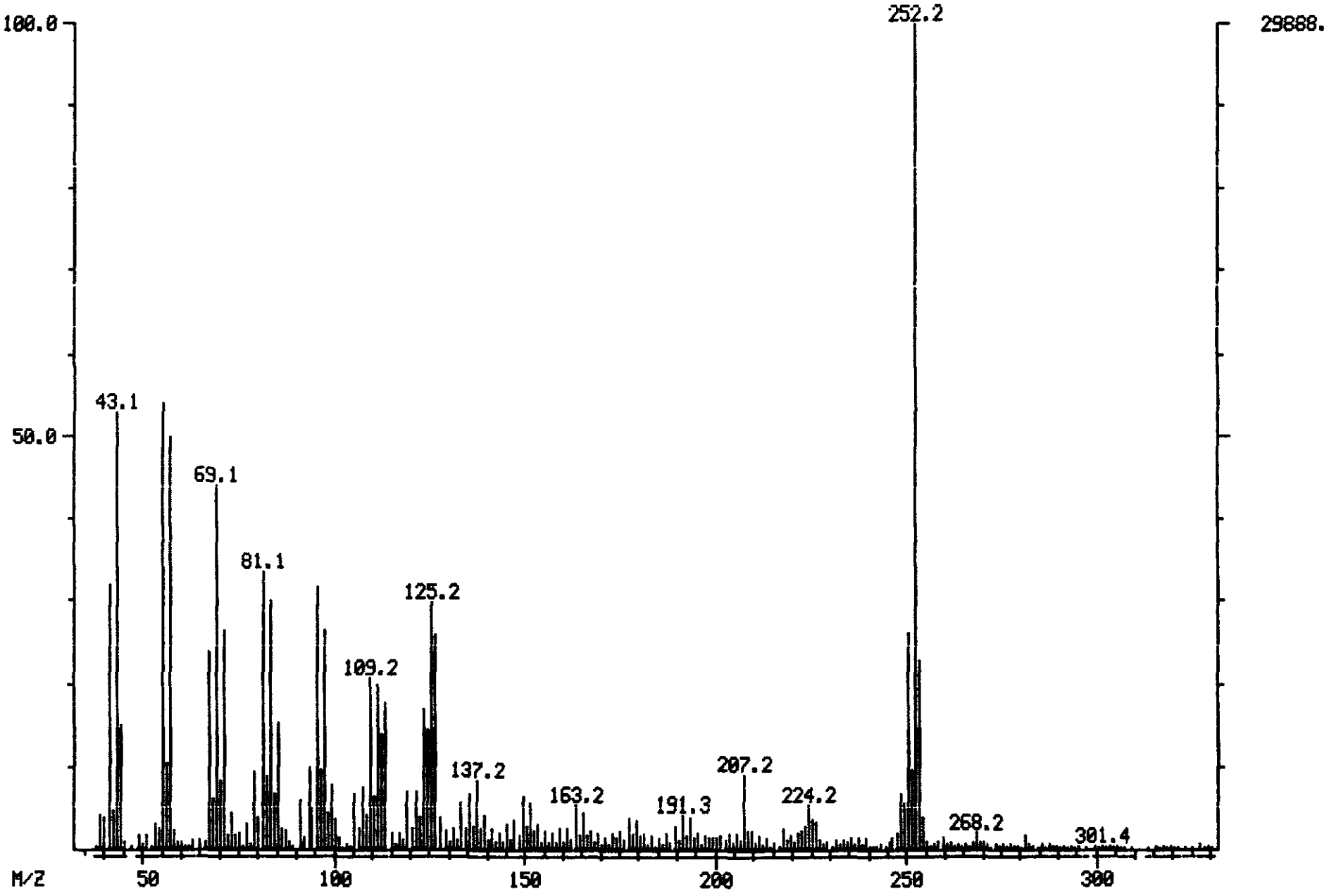
ORIGINAL (Red)

MASS SPECTRUM
05/23/90 15:46:00 + 34:07
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C770 BENZO(K)FLUORANTHENE

DATA: T2729 #2047
CALI: T2729 #2

BASE M/Z: 252
RIC: 376832.

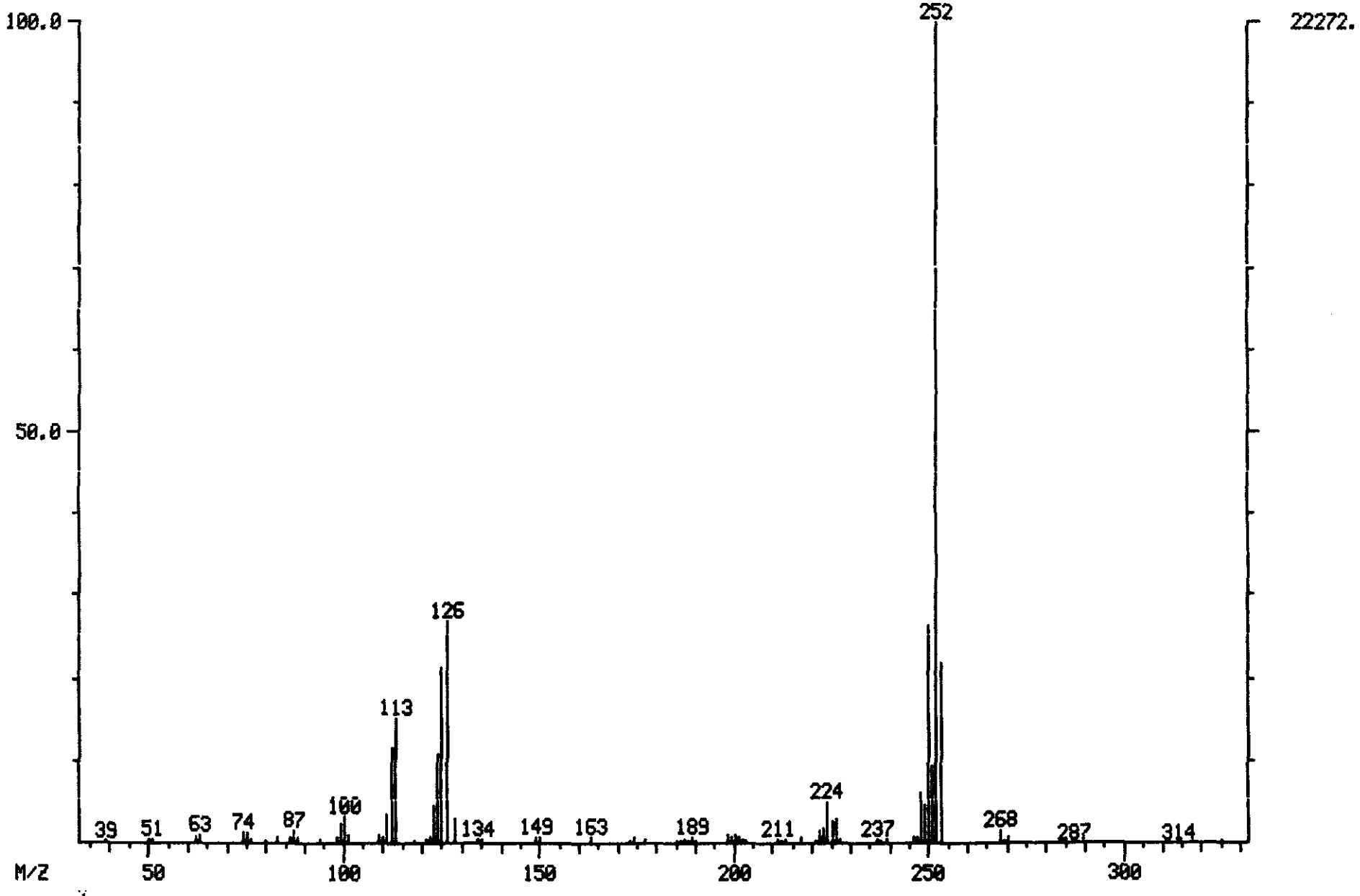
100355



MASS SPECTRUM
05/23/90 15:46:00 + 34:07
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C770 BENZO(K)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #2047
CALI: T2729 #2

BASE M/Z: 252
RIC: 72704.



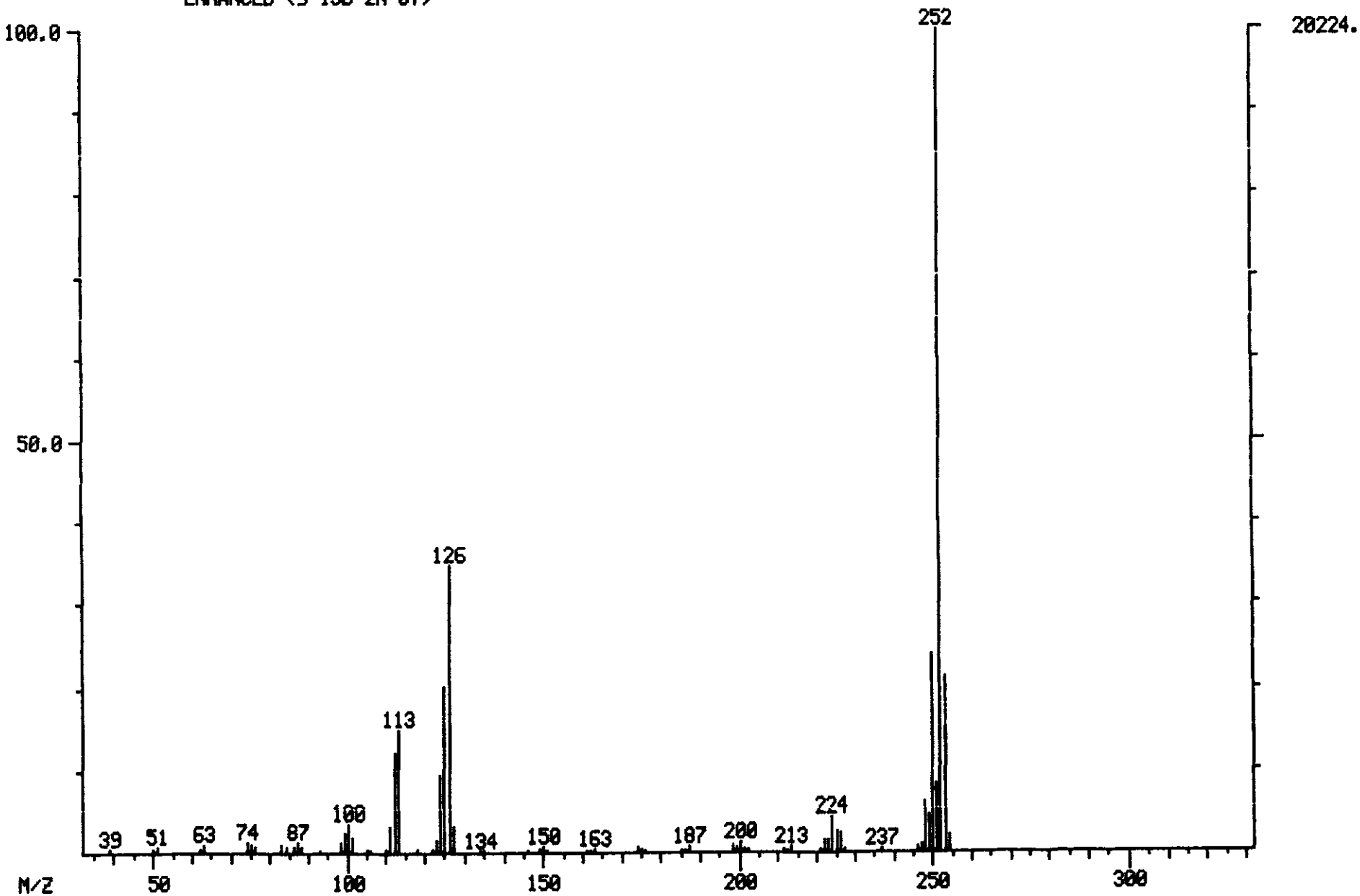
100035E

MASS SPECTRUM
05/23/90 12:04:00 + 34:15
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C770 BENZO(K)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #2055
CALI: T2726 #2

BASE M/Z: 252
RIC: 64512.

100357

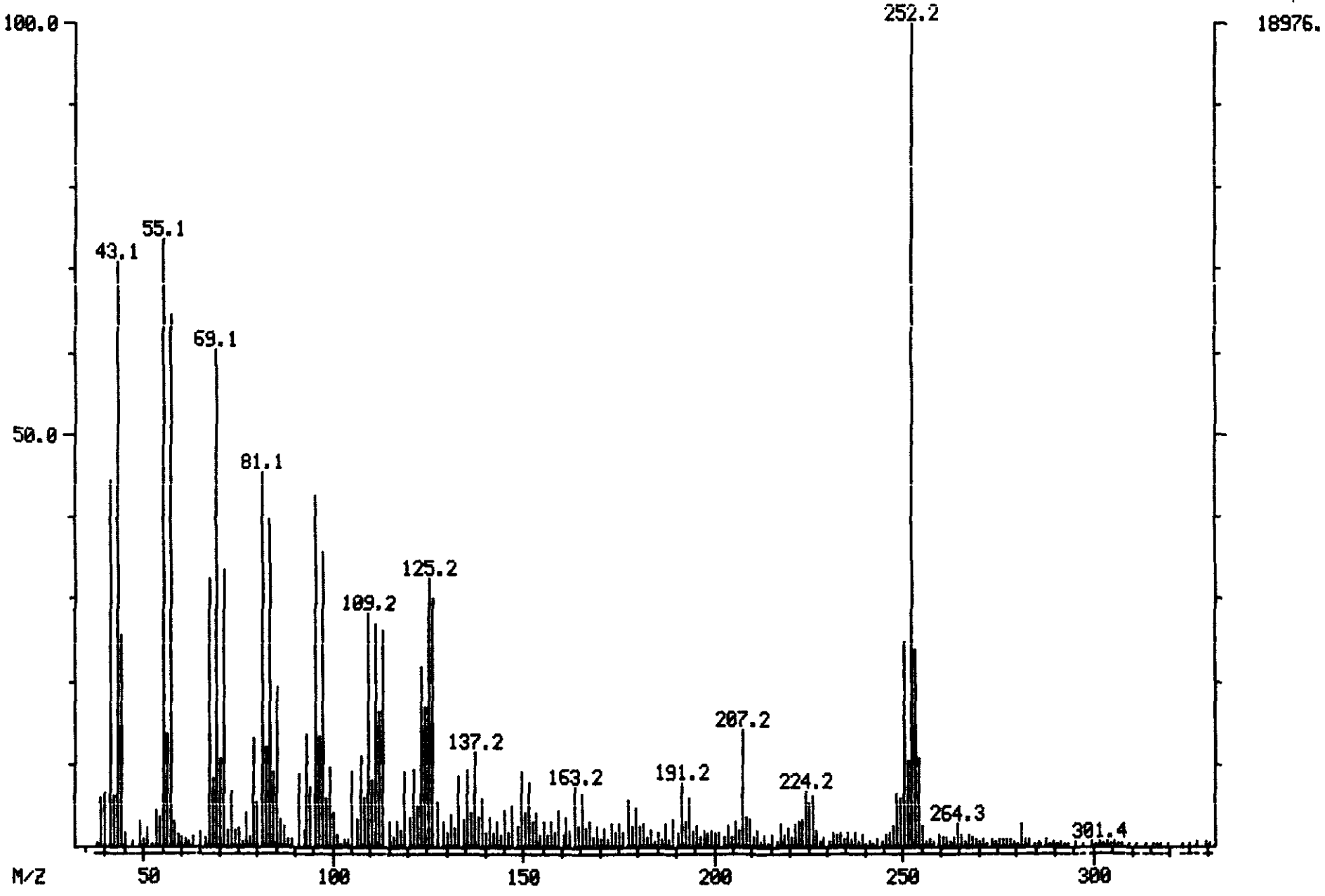


MASS SPECTRUM
05/23/90 15:46:00 + 35:13
SAMPLE: CLP,VERSCDM,2565,12,L,5,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C775 BENZO(A)PYRENE

DATA: T2729 #2113
CALI: T2729 #2

BASE M/Z: 252
RIC: 311808.

100358

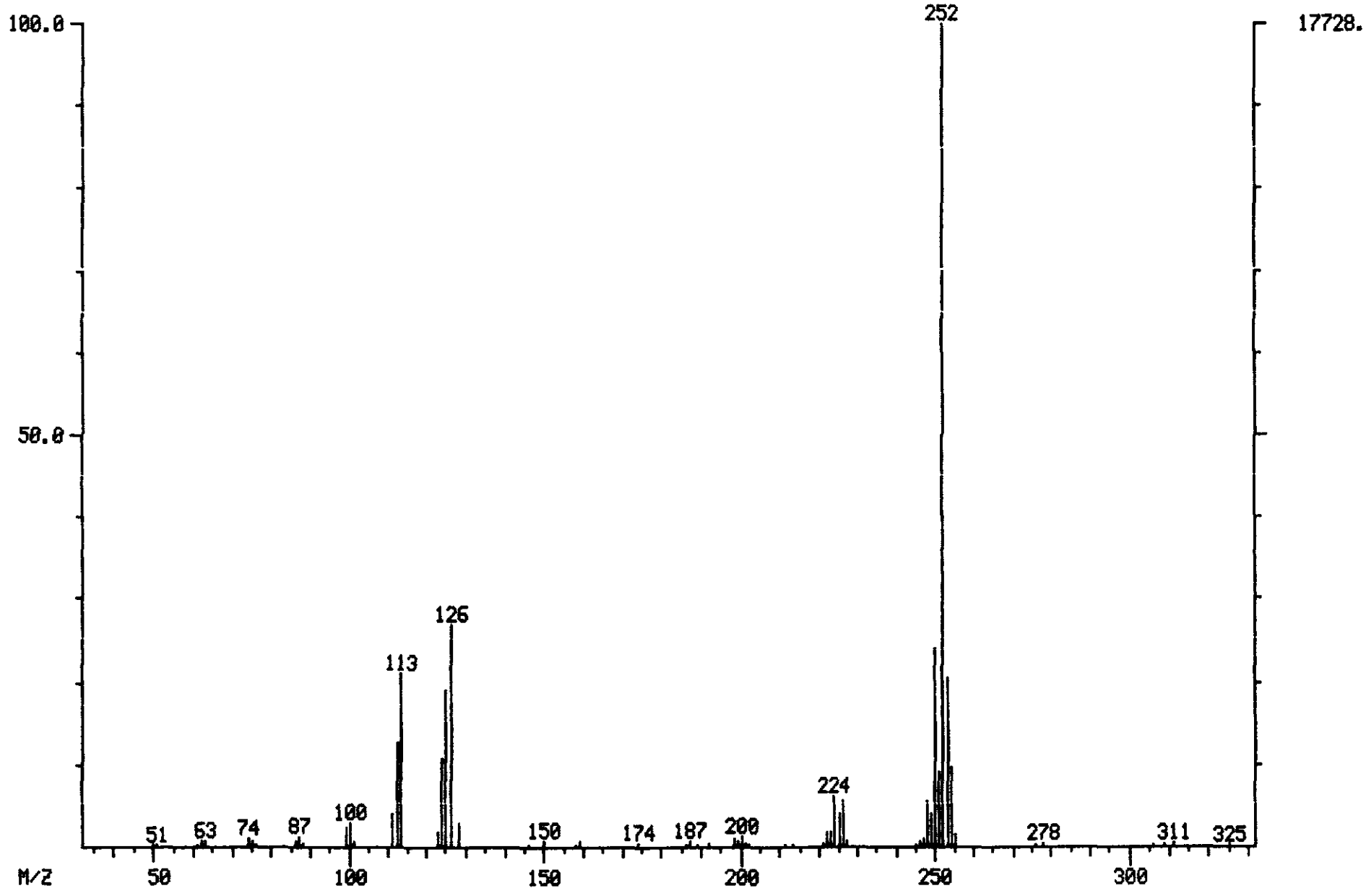


MASS SPECTRUM
05/23/90 15:46:00 + 35:13
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C775 BENZO(A)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #2113
CALI: T2729 #2

BASE M/Z: 252
RIC: 58240.

100359

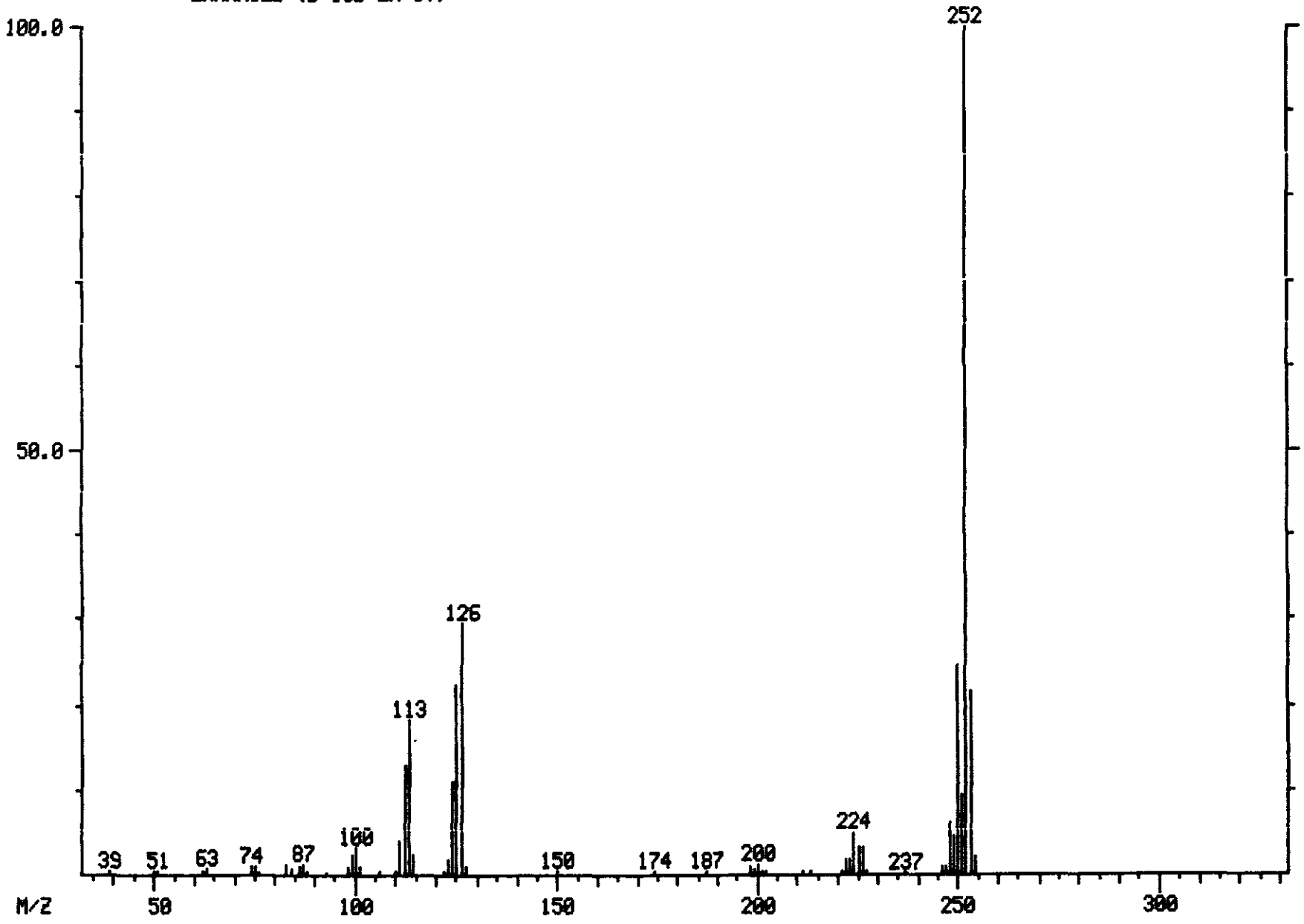


MASS SPECTRUM
05/23/90 12:04:00 + 35:21
SAMPLE: CLP,,,SSTD 50,,,22794,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C775 BENZO(A)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #2121
CALI: T2726 #2

BASE M/Z: 252
RIC: 80000.

100360

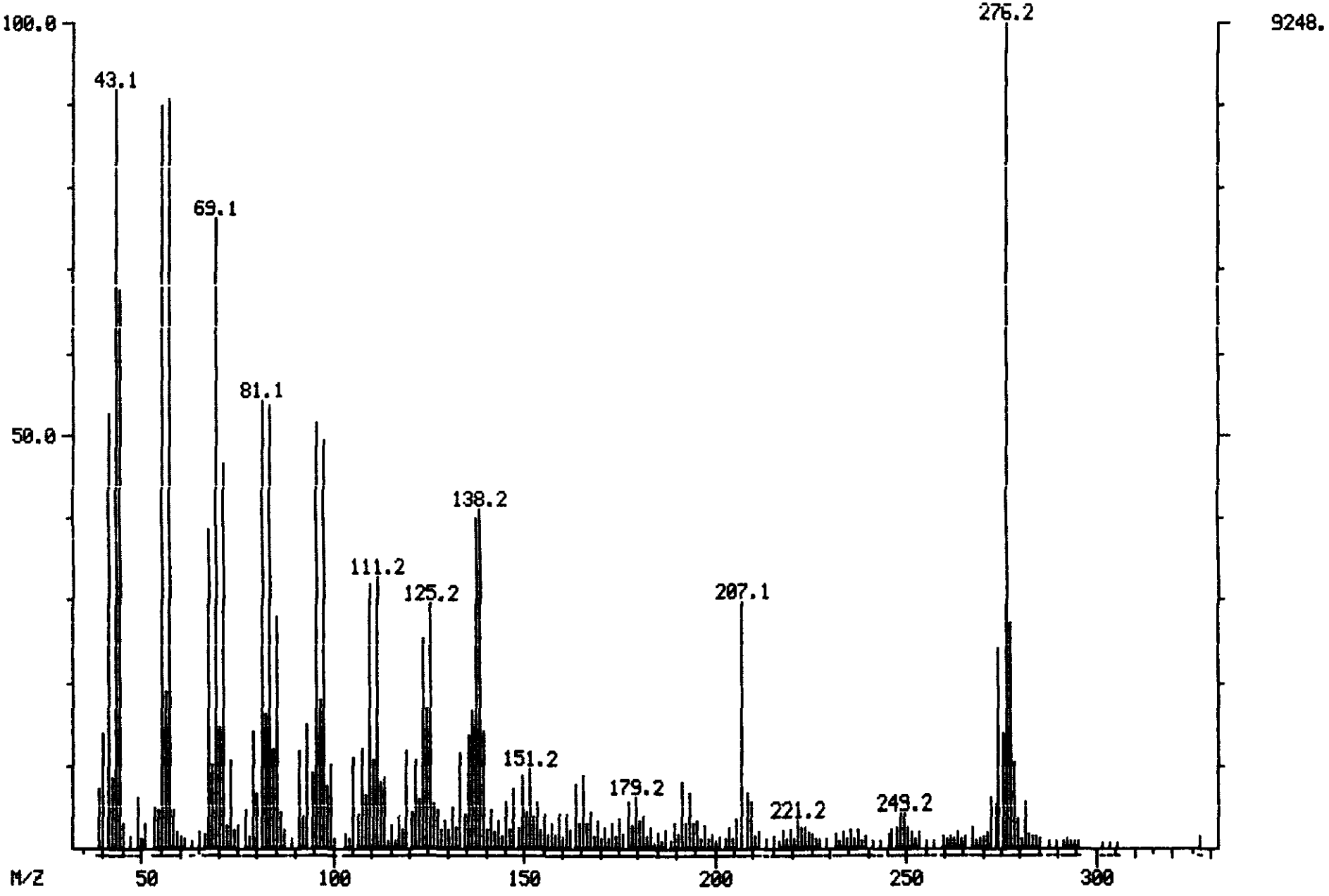


MASS SPECTRUM
05/23/90 15:46:00 + 40:35
SAMPLE: CLP,VERSCOM,2565,12,L,5,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C780 INDENO(1,2,3-CD)PYRENE

DATA: T2729 #2435
CALI: T2729 #2

BASE M/Z: 276
RIC: 190208.

100361



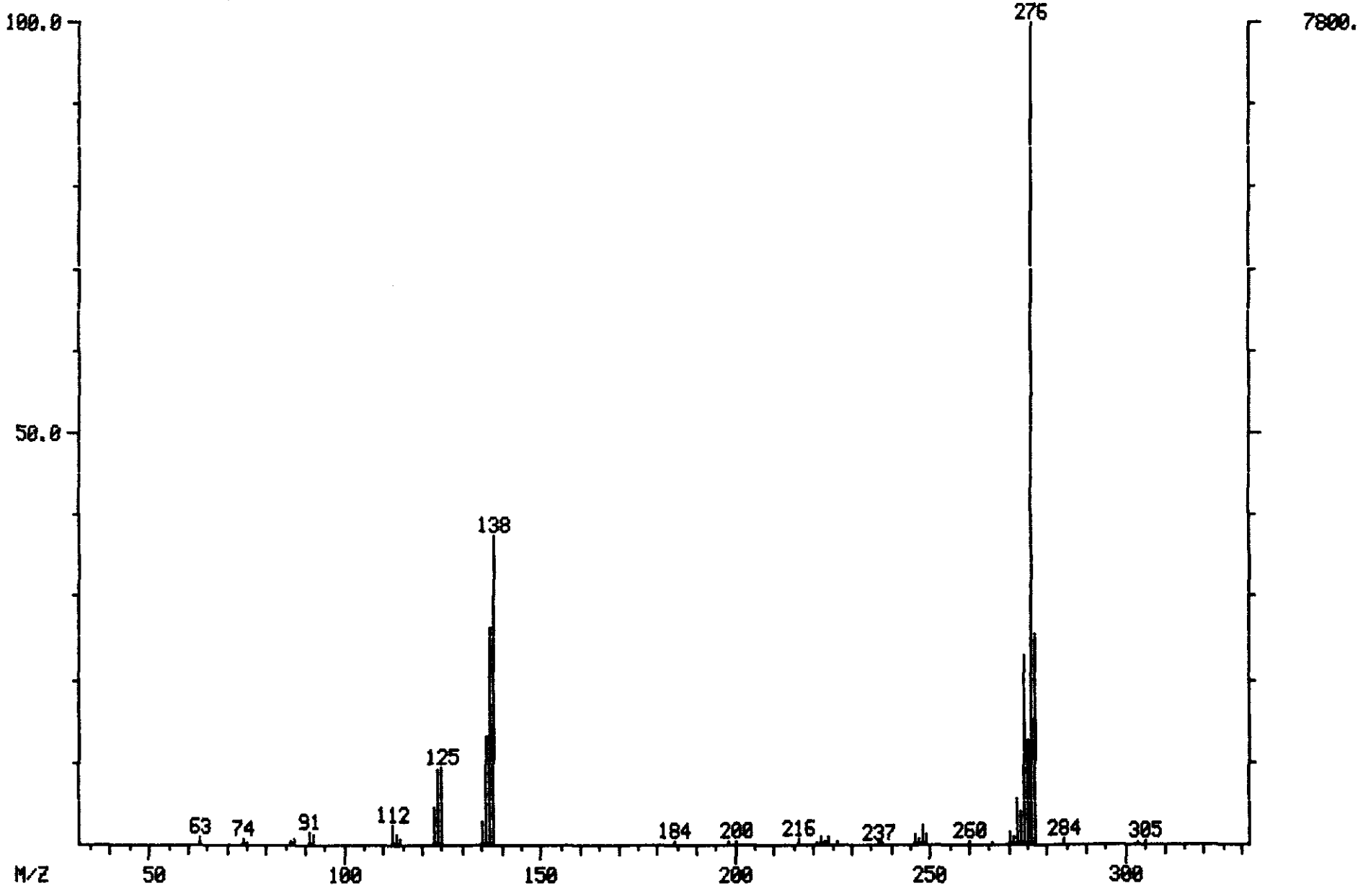
ORIGINAL (Red)

MASS SPECTRUM
05/23/90 15:46:00 + 40:35
SAMPLE: CLP,VERSCOM,2565,12,L,5,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C780 INDENO(1,2,3-CD)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #2435
CALI: T2729 #2

BASE M/Z: 276
RIC: 23680.

100362

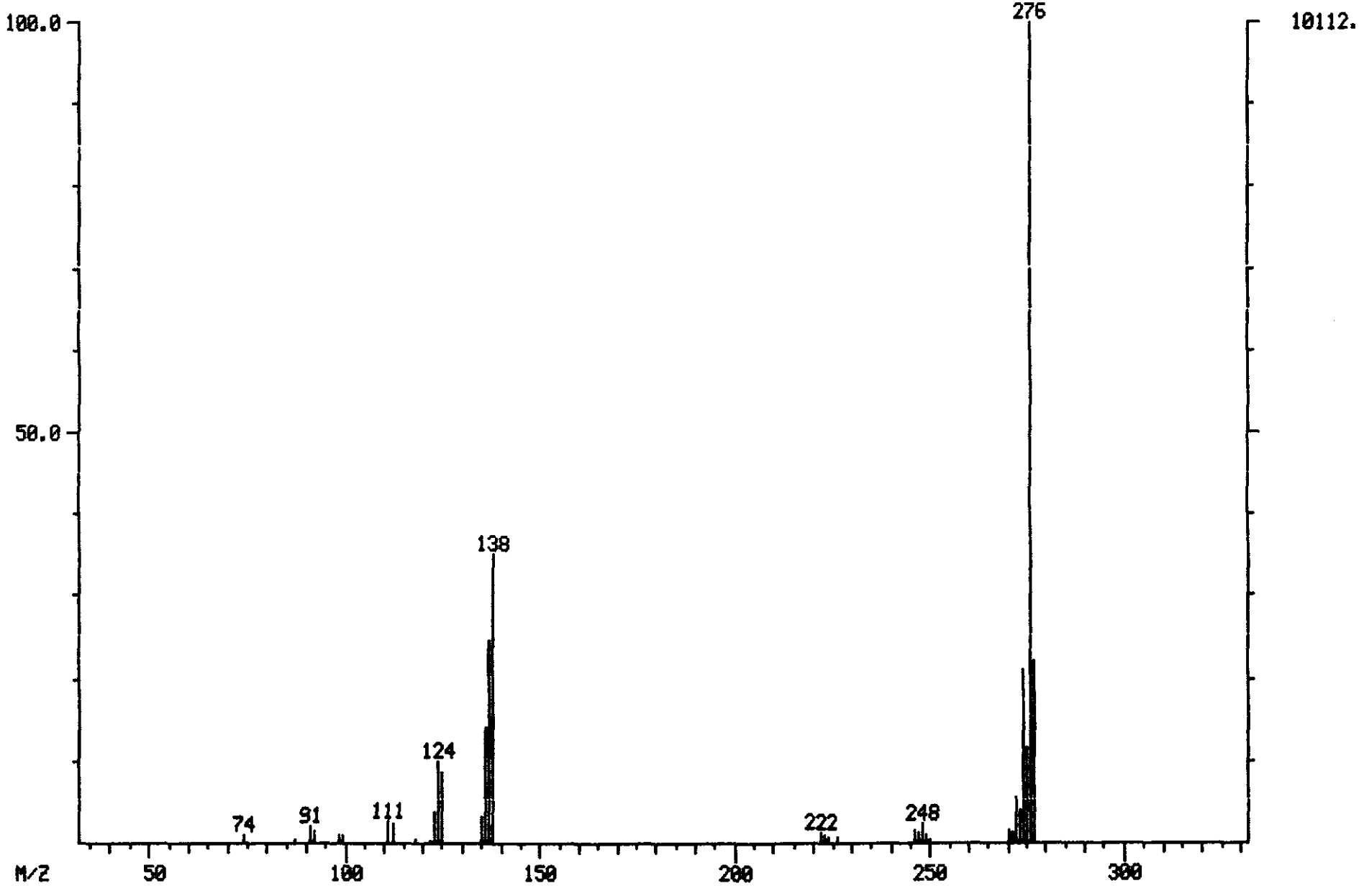


MASS SPECTRUM
05/23/90 12:04:00 + 40:48
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C780 INDENO(1,2,3-CD)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #2448
CALI: T2726 #2

BASE M/Z: 276
RIC: 29600.

100363

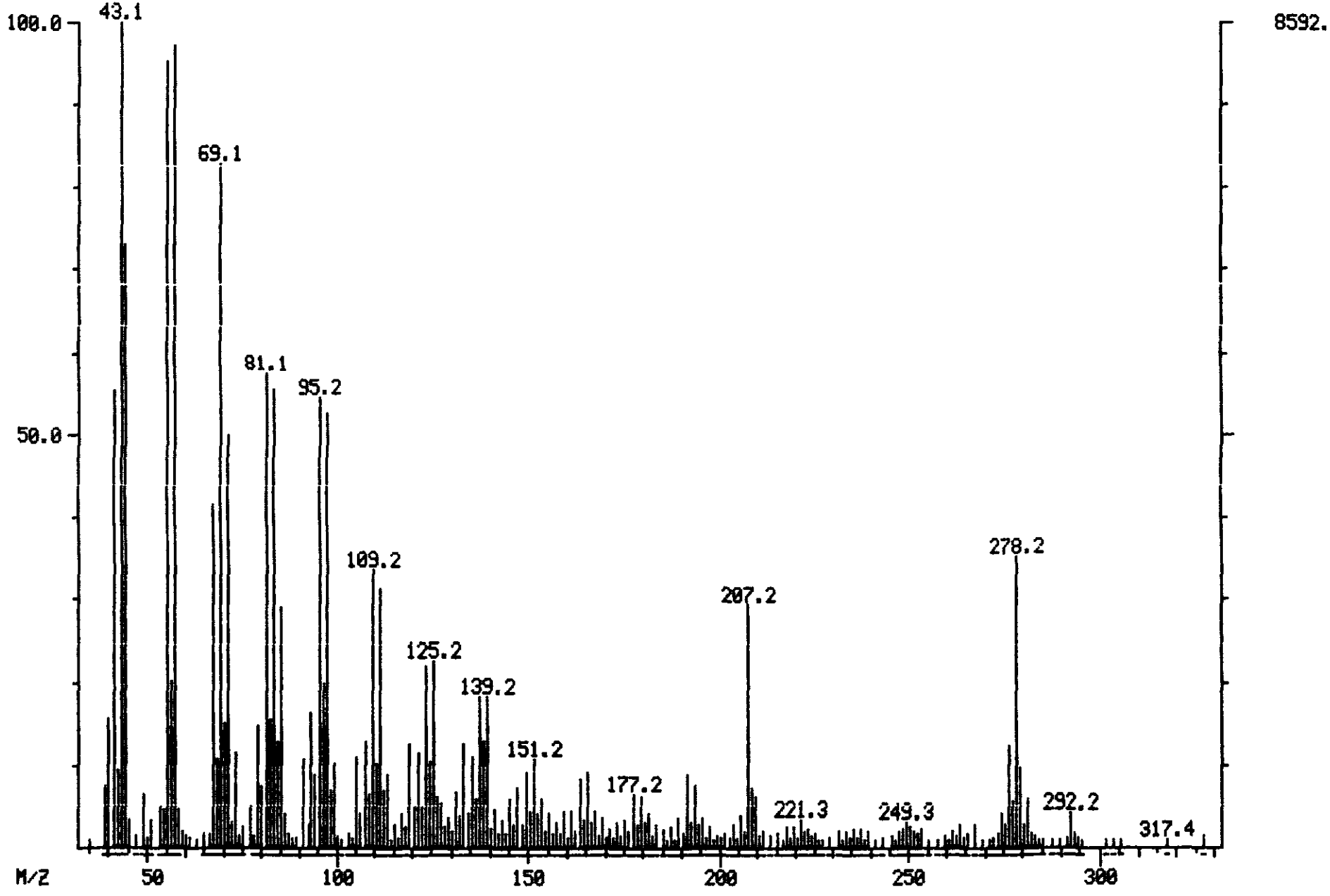


MASS SPECTRUM
05/23/90 15:46:00 + 40:42
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C785 DIBENZ(A,H)ANTHRACENE

DATA: T2729 #2442
CALI: T2729 #2

BASE M/Z: 43
RIC: 165376.

100364

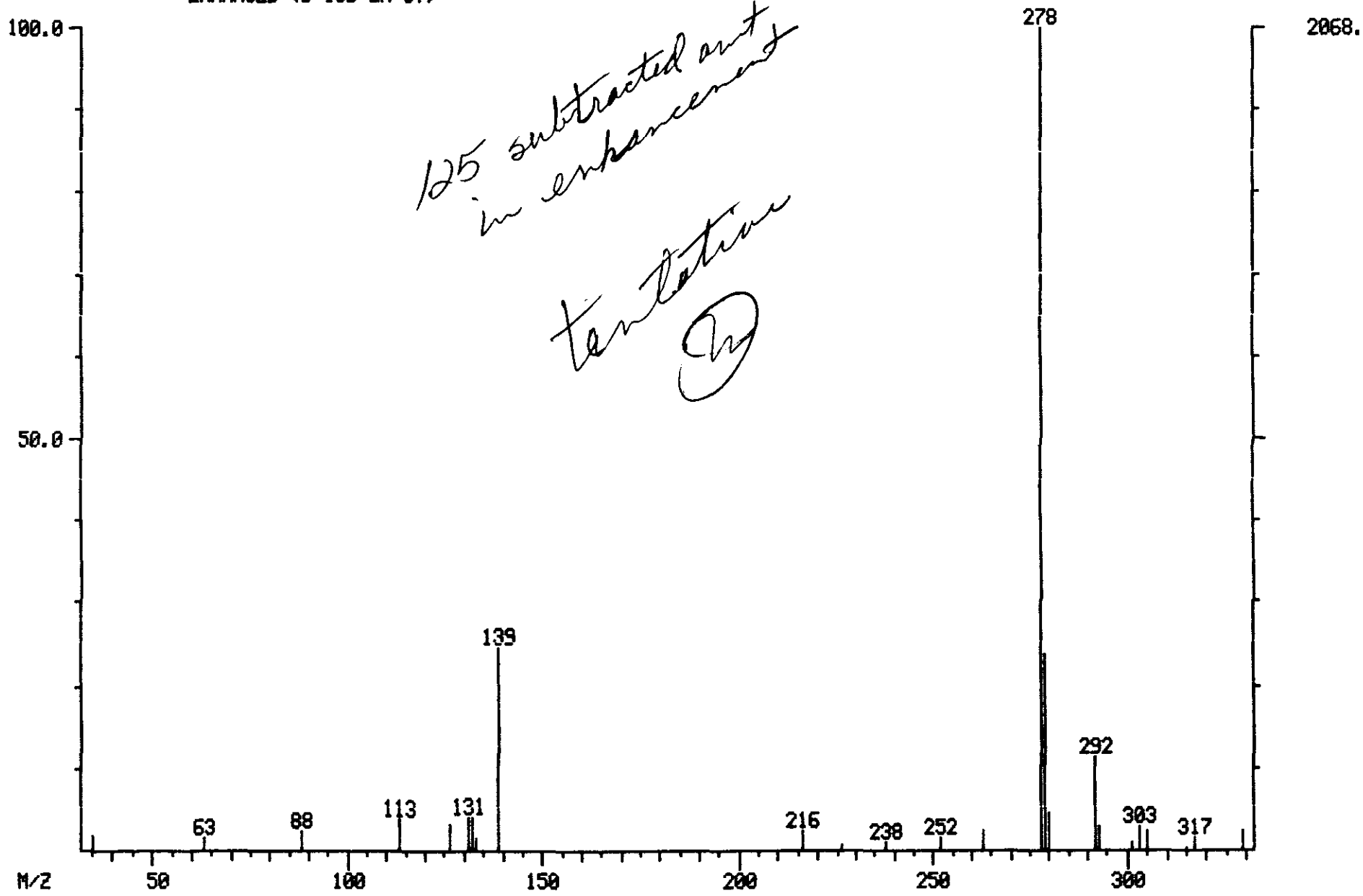


100365

MASS SPECTRUM
05/23/90 15:46:00 + 40:42
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C785 DIBENZ(A,H)ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #2442
CALI: T2729 #2

BASE M/Z: 278
RIC: 4352.



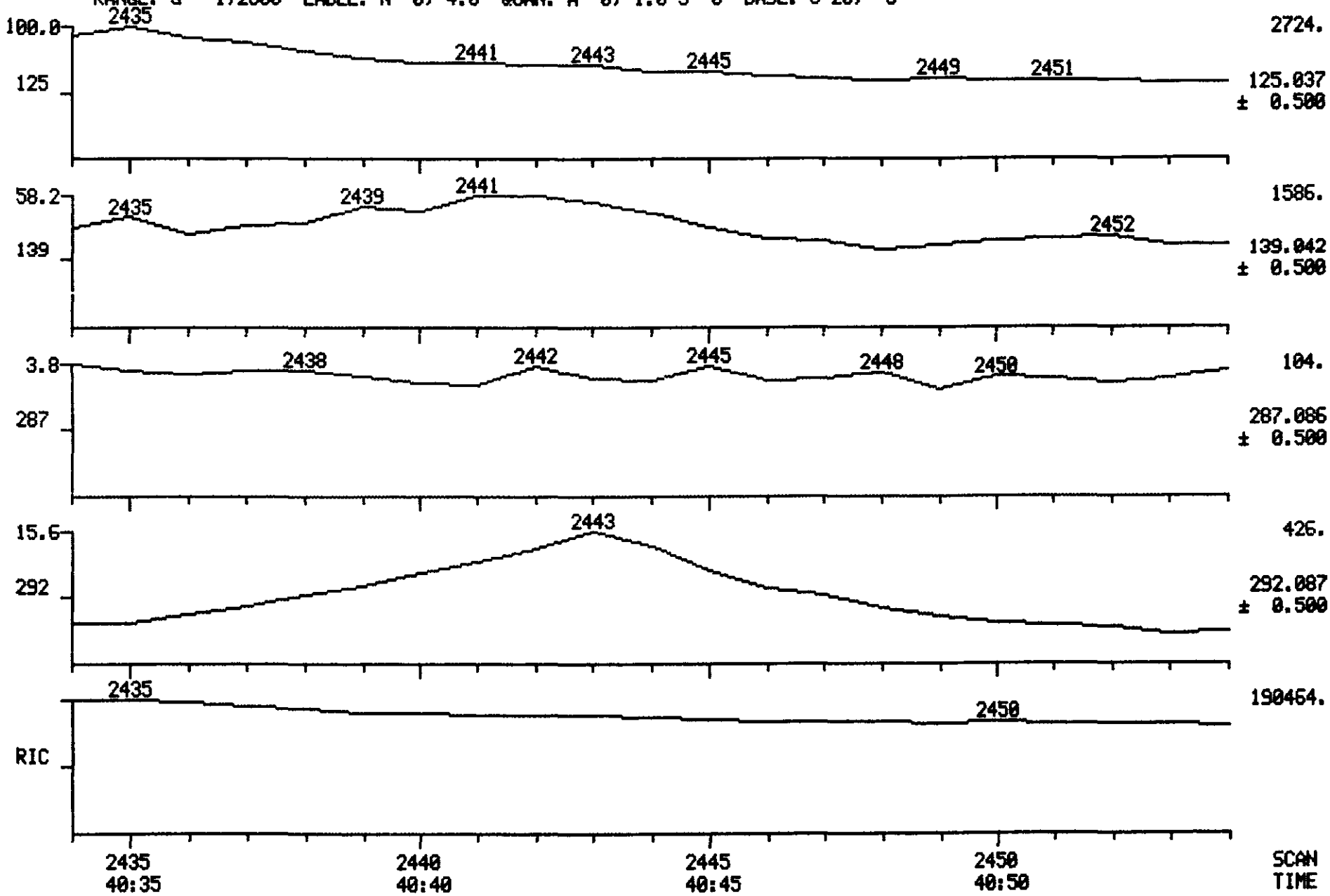
125 subtracted out in enhancement

tentative

ORIGINAL (Red)

100366

RIC+MASS CHROMATOGRAMS DATA: T2729 #1 SCANS 2434 TO 2454
05/23/90 15:46:00 CALI: T2729 #2
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

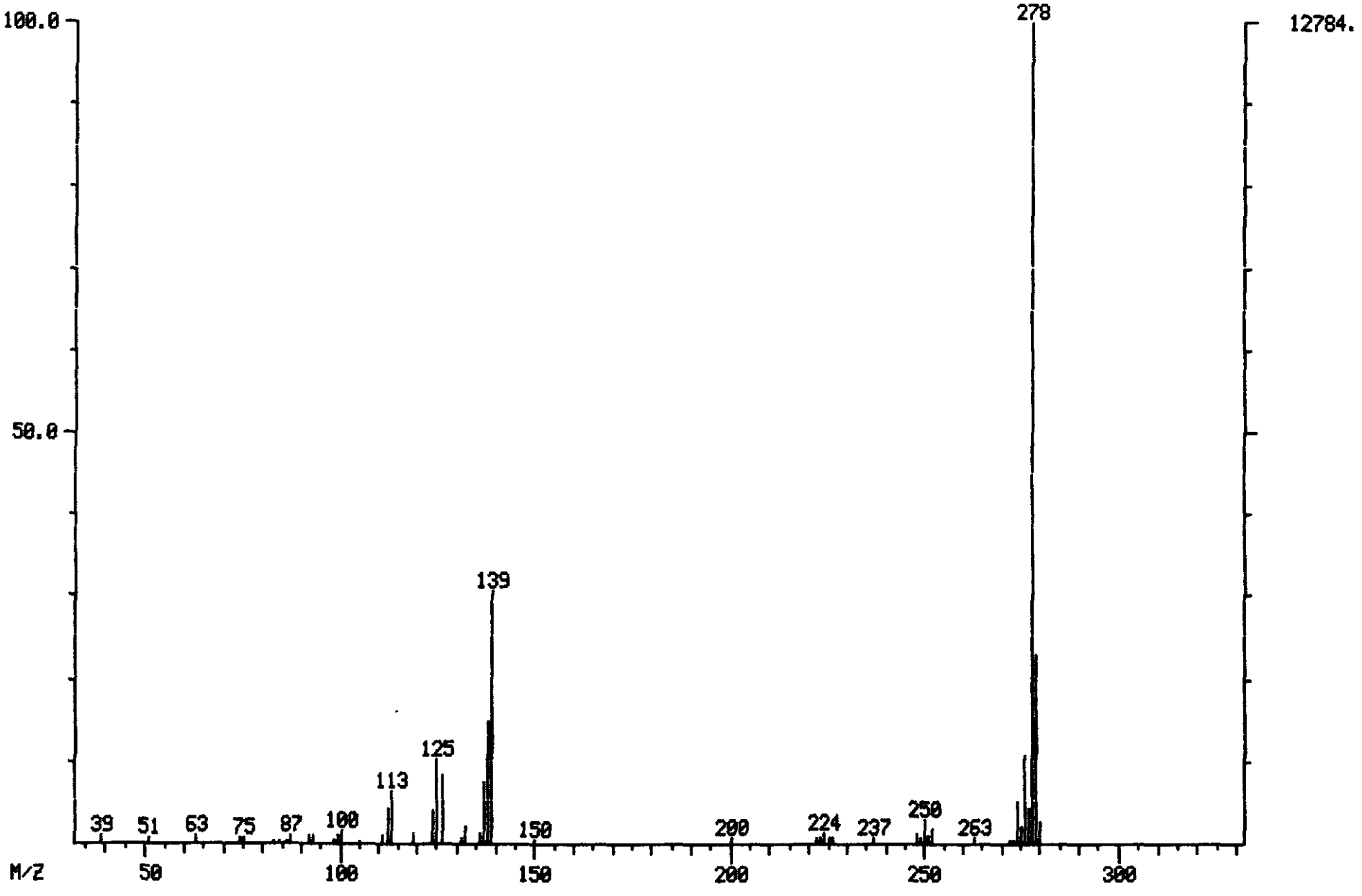


100367

MASS SPECTRUM
05/23/90 12:04:00 + 40:58
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C785 DIBENZ(A,H)ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #2458
CALI: T2726 #2

BASE M/Z: 278
RIC: 34624.

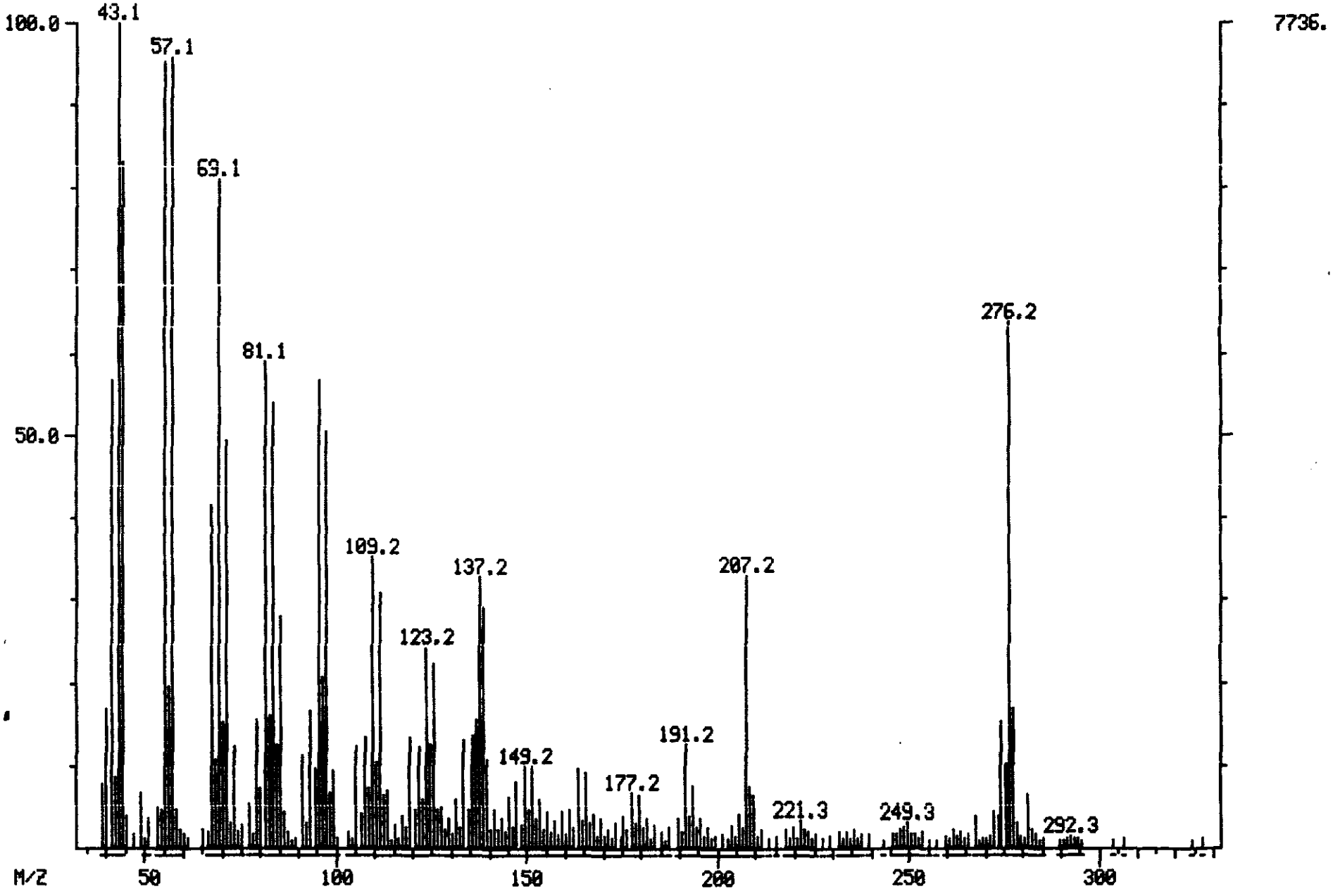


100368

MASS SPECTRUM
05/23/90 15:46:00 + 42:07
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C790 BENZO(G,H,I)PERYLENE

DATA: T2729 #2527
CALI: T2729 #2

BASE M/Z: 43
RIC: 158464.

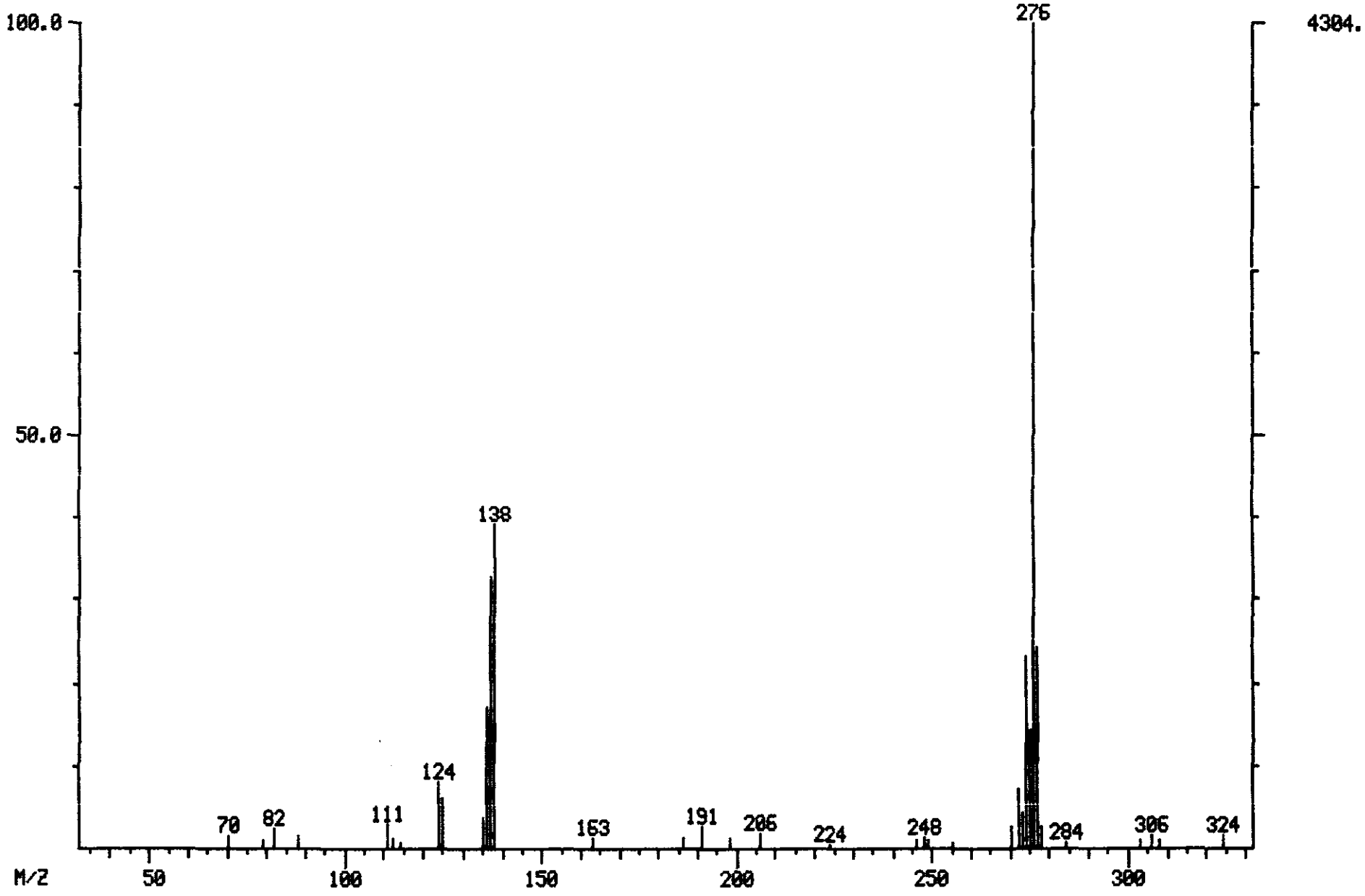


MASS SPECTRUM
05/23/90 15:46:00 + 42:07
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C790 BENZO(G,H,I)PERYLENE
ENHANCED (S 15B 2N 0T)

DATA: T2729 #2527
CALI: T2729 #2

BASE M/Z: 276
RIC: 13712.

100369

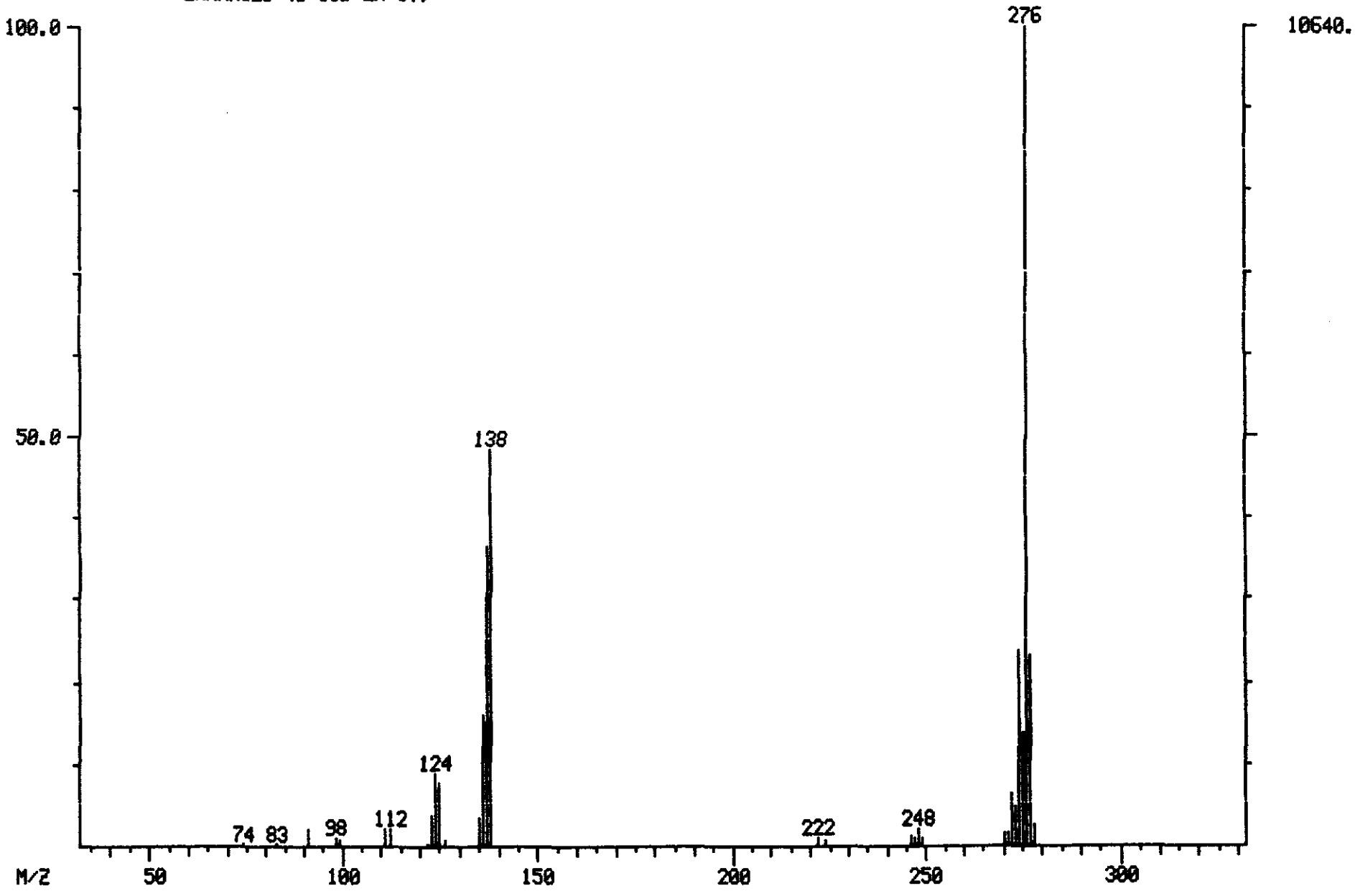


100370

MASS SPECTRUM
05/23/90 12:04:00 + 42:25
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C790 BENZO(G,H,I)PERYLENE
ENHANCED (5 15B 2N 0T)

DATA: T2726 #2545
CALI: T2726 #2

BASE M/Z: 276
RIC: 34176.



ORIGINAL (Red)

Library Search Data: T2729 # 298 Base m/z: 43
05/23/90 15:46:00 + 4:58 Cali: T2729 # 2 RIC: 64575.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
121 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	806	HYDROPEROXIDE, 1,1-DIMETHYLETHYL
2	2776	2-PENTANOL, 2,4-DIMETHYL-
3	9176	2-HEXANONE, 6-(ACETYLOXY)-
4	1334	OXIRANE, TETRAMETHYL-
5	1349	OXEPANE, 2,2,4-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C4.H10.O2	90	59	752	853	759
2	C7.H16.O	116	59	710	753	710
3	C8.H14.O3	158	43	700	748	735
4	C6.H12.O	100	59	699	809	702
5	C6.H12.O	100	43	698	784	707

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	75-91-2
2	—	—	—	—	625-06-9
3	—	—	—	—	4305-26-4
4	—	—	—	—	5076-20-0
5	—	—	—	—	23120-44-7

100371

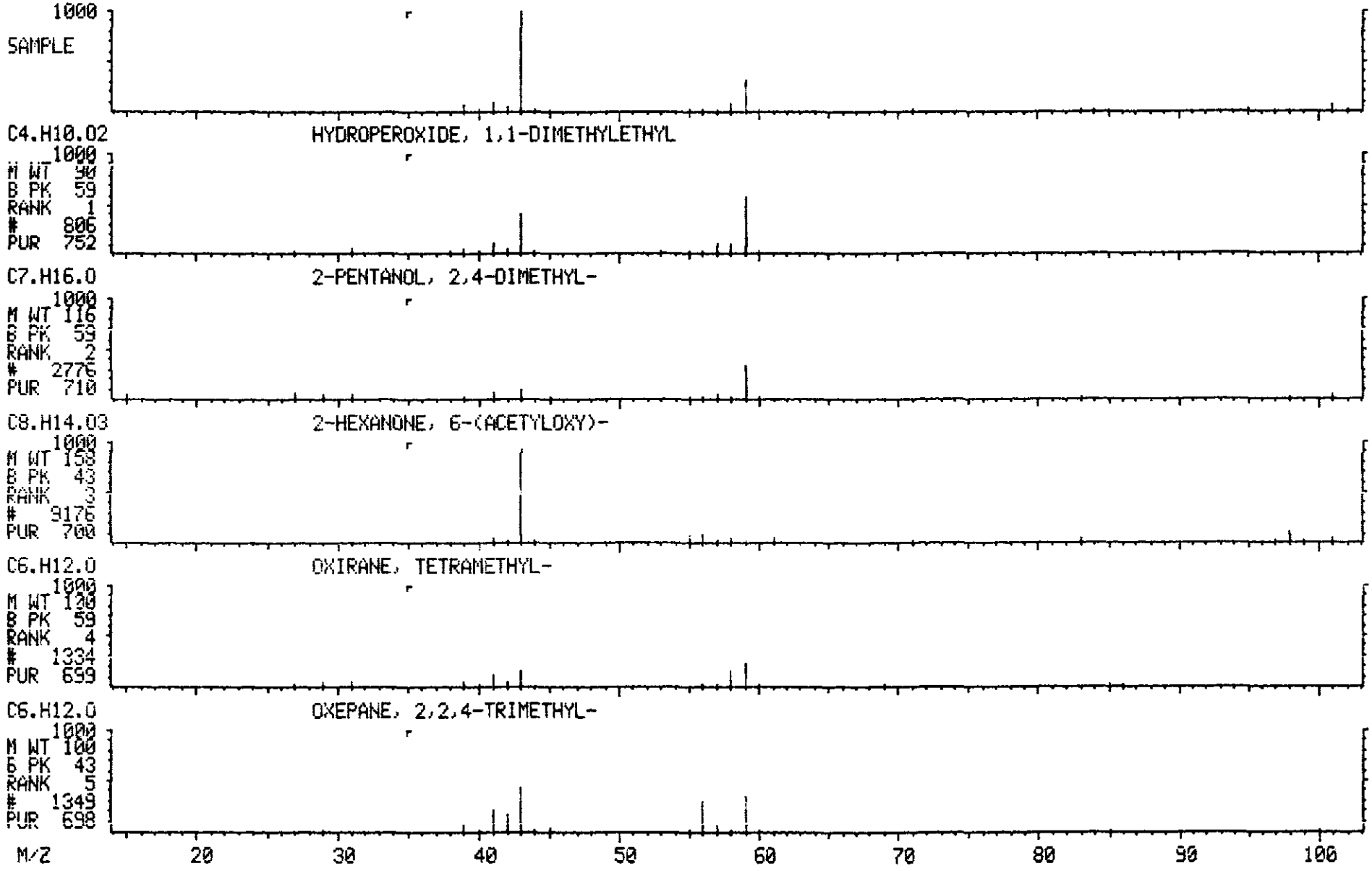
ORIGINAL (Red)

100372

LIBRARY SEARCH
05/23/90 15:46:00 + 4:58
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 # 298
CALI: T2729 # 2

BASE M/Z: 43
RIC: 64575.



ORIGINAL (Red)

Library Search Data: T2729 # 318 Base m/z: 43
05/23/90 15:46:00 + 5:18 Cali: T2729 # 2 RIC: 36159.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
171 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	4411	1-HEPTANOL, 6-METHYL-
2	6635	1-HEPTANOL, 2,4-DIMETHYL-, (R,R)-(+)-
3	4135	HEPTANE, 2,3-DIMETHYL-
4	4119	HEXANE, 2,3,4-TRIMETHYL-
5	4435	ISOOCTANOL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H18.O	130	41	801	893	801
2	C9.H20.O	144	43	796	888	813
3	C9.H20	128	43	780	915	780
4	C9.H20	128	43	772	906	778
5	C8.H18.O	130	43	765	891	765

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	1653-40-3
2	—	—	—	—	18450-73-2
3	—	—	—	—	3074-71-3
4	—	—	—	—	921-47-1
5	—	—	—	—	26952-21-6

✓

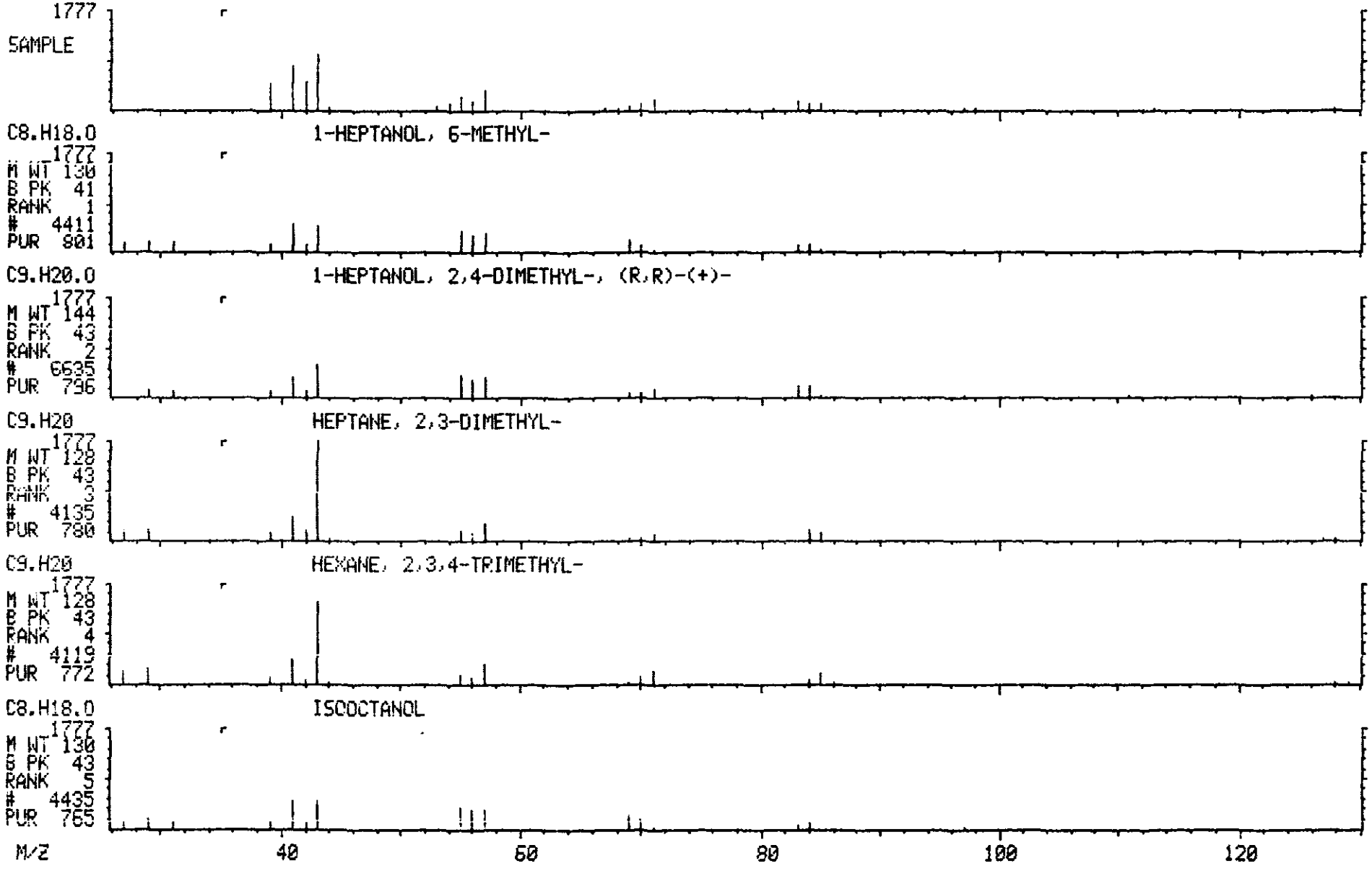
ORIGINAL (Red)

100374

LIBRARY SEARCH
05/23/90 15:46:00 + 5:18
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 # 318
CALI: T2729 # 2

BASE M/Z: 43
RIC: 36159.



Library Search Data: T2729 # 327 Base m/z: 57
05/23/90 15:46:00 + 5:27 Cali: T2729 # 2 RIC: 24767.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
86 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6081	HEPTANE, 4-PROPYL-
2	6103	HEPTANE, 4-(1-METHYLETHYL)-
3	4136	HEXANE, 4-ETHYL-2-METHYL-
4	6087	OCTANE, 2,3-DIMETHYL-
5	6082	HEPTANE, 2,3,6-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22	142	57	918	964	934
2	C10.H22	142	57	918	968	922
3	C9.H20	128	57	904	946	904
4	C10.H22	142	57	903	953	911
5	C10.H22	142	57	896	945	897

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	3178-29-8
2	—	—	—	—	52896-87-4
3	—	—	—	—	3074-75-7
4	—	—	—	—	7146-60-3
5	—	—	—	—	4032-93-3

✓

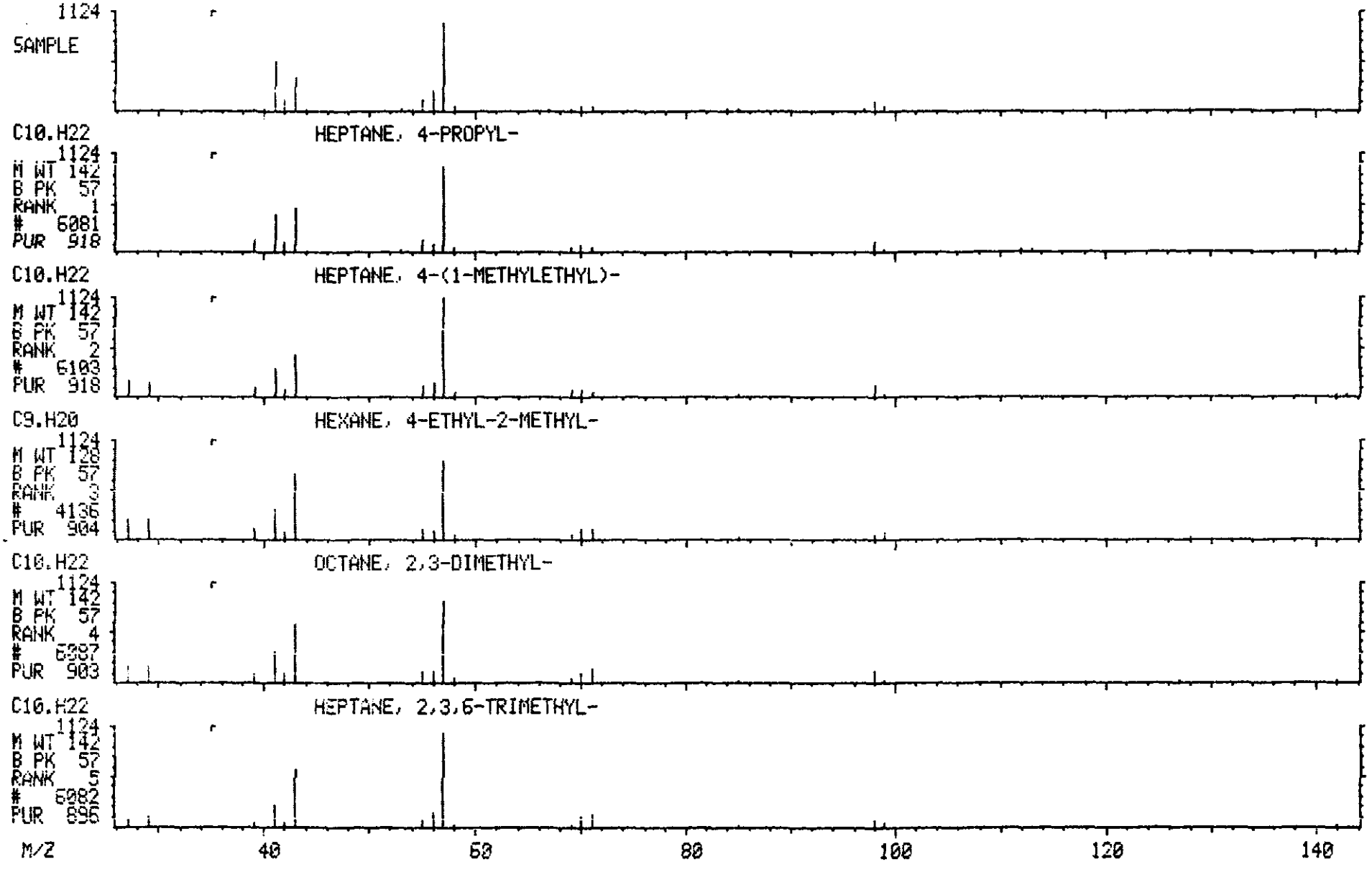
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 15:46:00 + 5:27
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 # 327
CALI: T2729 # 2

BASE M/Z: 57
RIC: 24767.

100376



Library Search Data: T2729 # 409 Base m/z: 43
05/23/90 15:46:00 + 6:49 Cali: T2729 # 2 RIC: 73855
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
58 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	10299	HEXANE, 2-BROMO-
2	10300	HEXANE, 3-BROMO-
3	10303	PENTANE, 3-BROMO-3-METHYL-
4	11544	1,2,3-OXADIAZOLIUM, 3-(2,2-DIMETHYLBUTYL)-5-HYDROXY-, HYDROXIDE, IN*
5	4110	2-HEPTENE, 2-METHOXY-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C6.H13.BR	164	43	841	896	858
2	C6.H13.BR	164	43	829	880	844
3	C6.H13.BR	164	43	782	865	807
4	C8.H14.O2.N2	170	43	683	720	741
5	C8.H16.O	128	85	665	689	668

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	3377-86-4
2	—	—	—	—	3377-87-5
3	—	—	—	—	25346-31-0
4	—	—	—	—	54460-94-5
5	—	—	—	—	61142-43-6

✓

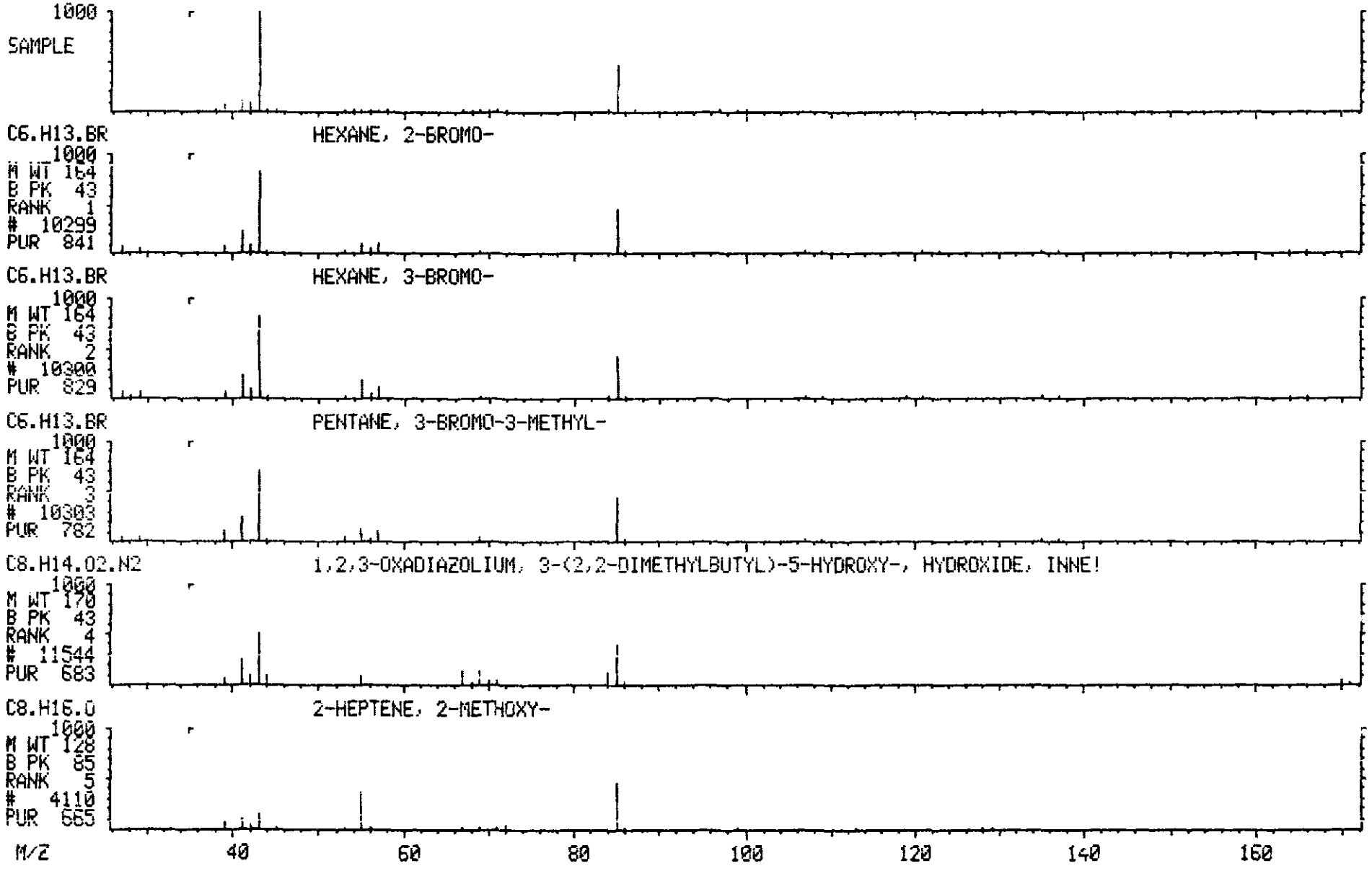
ORIGINAL (Red)

100378

LIBRARY SEARCH
05/23/90 15:46:00 + 6:49
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 # 409
CALI: T2729 # 2

BASE M/Z: 43
RIC: 73855.



ORIGINAL (Red)

Library Search Data: T2729 # 437 Base m/z: 43
05/23/90 15:46:00 + 7:17 Cali: T2729 # 2 RIC: 220415.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@3BC TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
274 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	2176	5-HEXEN-2-ONE, 5-METHYL-
2	2147	2(5H)-FURANONE, 5,5-DIMETHYL-
3	2183	3-HEXEN-2-ONE, 5-METHYL-
4	2165	3-PENTEN-2-ONE, 3,4-DIMETHYL-
5	2187	3-HEPTEN-2-ONE, (E)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H12.O	112	43	843	912	843
2	C6.H8.O2	112	43	831	889	897
3	C7.H12.O	112	43	762	819	762
4	C7.H12.O	112	43	683	752	683
5	C7.H12.O	112	55	676	737	685

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	3240-09-3
2	—	—	—	—	20019-64-1
3	—	—	—	—	5166-53-0
4	—	—	—	—	684-94-6
5	—	—	—	—	5609-09-6

100379

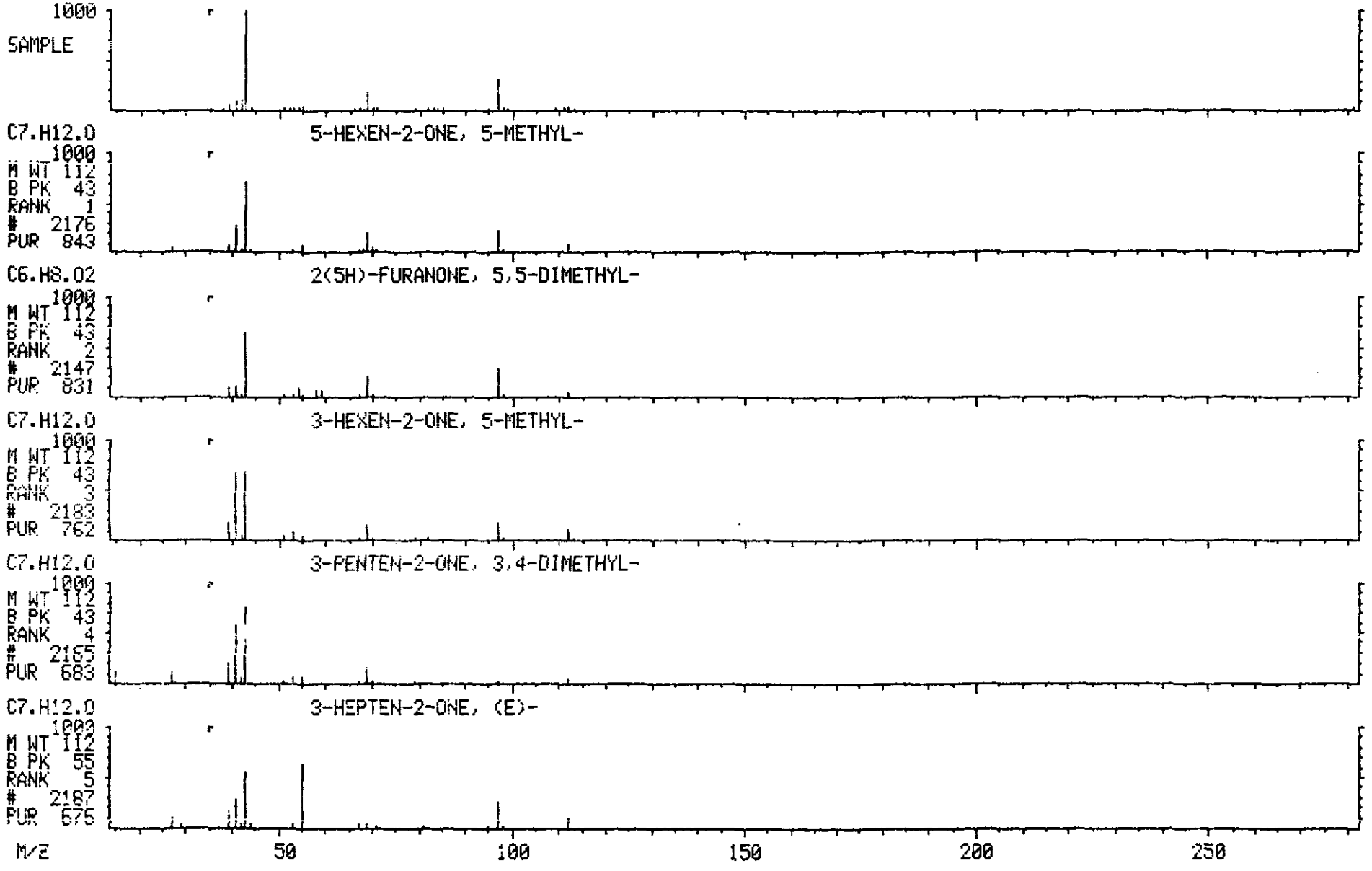
ORIGINAL (Red)

100380

LIBRARY SEARCH
05/23/90 15:46:00 + 7:17
SAMPLE: CLP,VERSCOM,2565,12,L,5,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (5 15B 2N 0T)

DATA: T2729 # 437
CALI: T2729 # 2

BASE M/Z: 43
RIC: 220415.



Library Search Data: T2729 # 489 Base m/z: 43 ORIGINAL (Red)
05/23/90 15:46:00 + 8:09 Cali: T2729 # 2 RIC: 96127.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
178 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6315	3-HEPTANONE, 2,4-DIMETHYL-
2	16936	2H-PYRAN-2,3-DIOL, TETRAHYDRO-, DIACETATE, TRANS-
3	16935	2H-PYRAN-2,3-DIOL, TETRAHYDRO-, DIACETATE, CIS-
4	1264	2,4-PENTANEDIONE
5	7550	PENTANE, 3-BROMO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18.O	142	43	844	934	844
2	C9.H14.O5	202	43	801	867	898
3	C9.H14.O5	202	43	783	850	900
4	C5.H8.O2	100	43	768	913	790
5	C5.H11.BR	150	43	716	844	734

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	18641-71-9
2	—	—	—	—	3021-94-1
3	—	—	—	—	2396-74-9
4	—	—	—	—	123-54-6
5	—	—	—	—	1809-10-5

✓

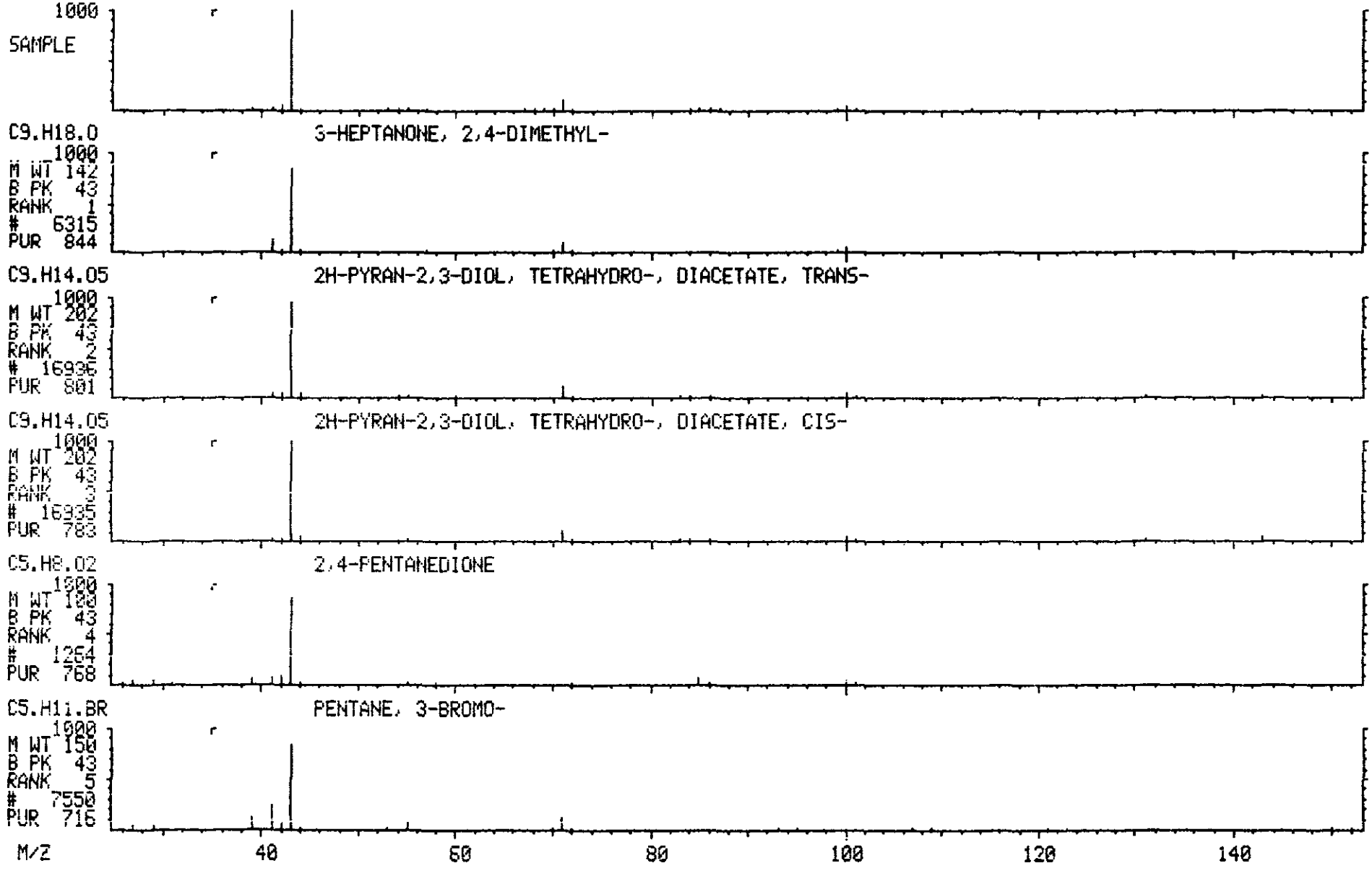
ORIGINAL (Red)

100382

LIBRARY SEARCH
05/23/90 15:46:00 + 8:09
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 # 489
CALI: T2729 # 2

BASE M/Z: 43
RIC: 96127.



Library Search Data: T2729 # 567 Base m/z: 43 ORIGINAL (Red)
05/23/90 15:46:00 + 9:27 Cali: T2729 # 2 RIC: 209407.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
128 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1590	1,2-ETHANEDIOL, MONOACETATE
2	613	ETHANONE, 1-OXIRANYL-
3	2875	BUTANOIC ACID, 3-HYDROXY-, METHYL ESTER
4	4822	1,2,3-PROPANETRIOL, 1-ACETATE
5	6936	HEXANOIC ACID, HYDROXY-, METHYL ESTER

B

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C4.H8.O3	104	43	660	942	660
2	C4.H6.O2	86	43	627	878	637
3	C5.H10.O3	118	43	604	746	682
4	C5.H10.O4	134	43	603	916	610
5	C7.H14.O3	146	43	580	710	699

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	542-59-6
2	—	—	—	—	4401-11-0
3	—	—	—	—	1487-49-6
4	—	—	—	—	106-61-6
5	—	—	—	—	59942-11-9

✓

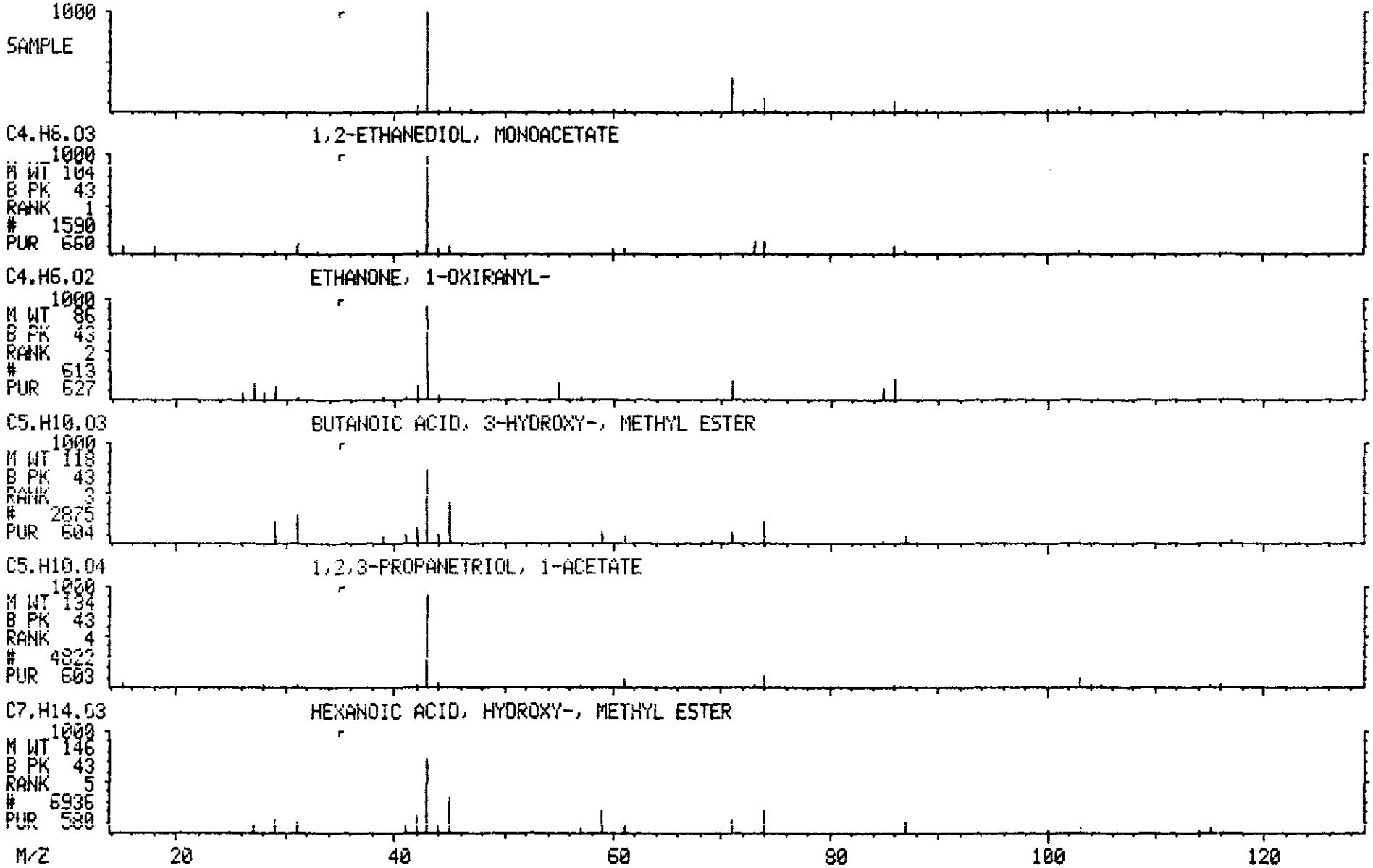
ORIGINAL (Red)

100384

LIBRARY SEARCH
05/23/90 15:46:00 + 9:27
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 # 567
CALI: T2729 # 2

BASE M/Z: 43
RIC: 209407.



Library Search Data: T2729 # 823 Base m/z: 43
05/23/90 15:46:00 + 13:43 Cali: T2729 # 2 RIC: 17151.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
51 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	4168	2-PROPENOIC ACID, 2-(ACETYLAMINO)-
2	9115	4-IMIDAZOLIDINONE, 1-ACETYL-2-THIOXO-
3	1466	1,3-DIOXANE, 2-METHYL-
4	8977	BUTANOIC ACID, 3-CYANO-3-HYDROXY-, ETHYL ESTER
5	2746	HYDRAZINE, 1-(1-METHYLETHYL)-2-PROPYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C5.H7.O3.N	129	43	559	704	674
2	C5.H6.O2.N2.S	158	43	537	715	602
3	C5.H10.O2	102	43	527	791	572
4	C7.H11.O3.N	157	43	474	779	529
5	C6.H16.N2	116	45	412	554	442

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	5429-56-1
2	—	—	—	—	584-26-9
3	—	—	—	—	626-68-6
4	—	—	—	—	6330-37-6
5	—	—	—	—	3711-28-2

✓

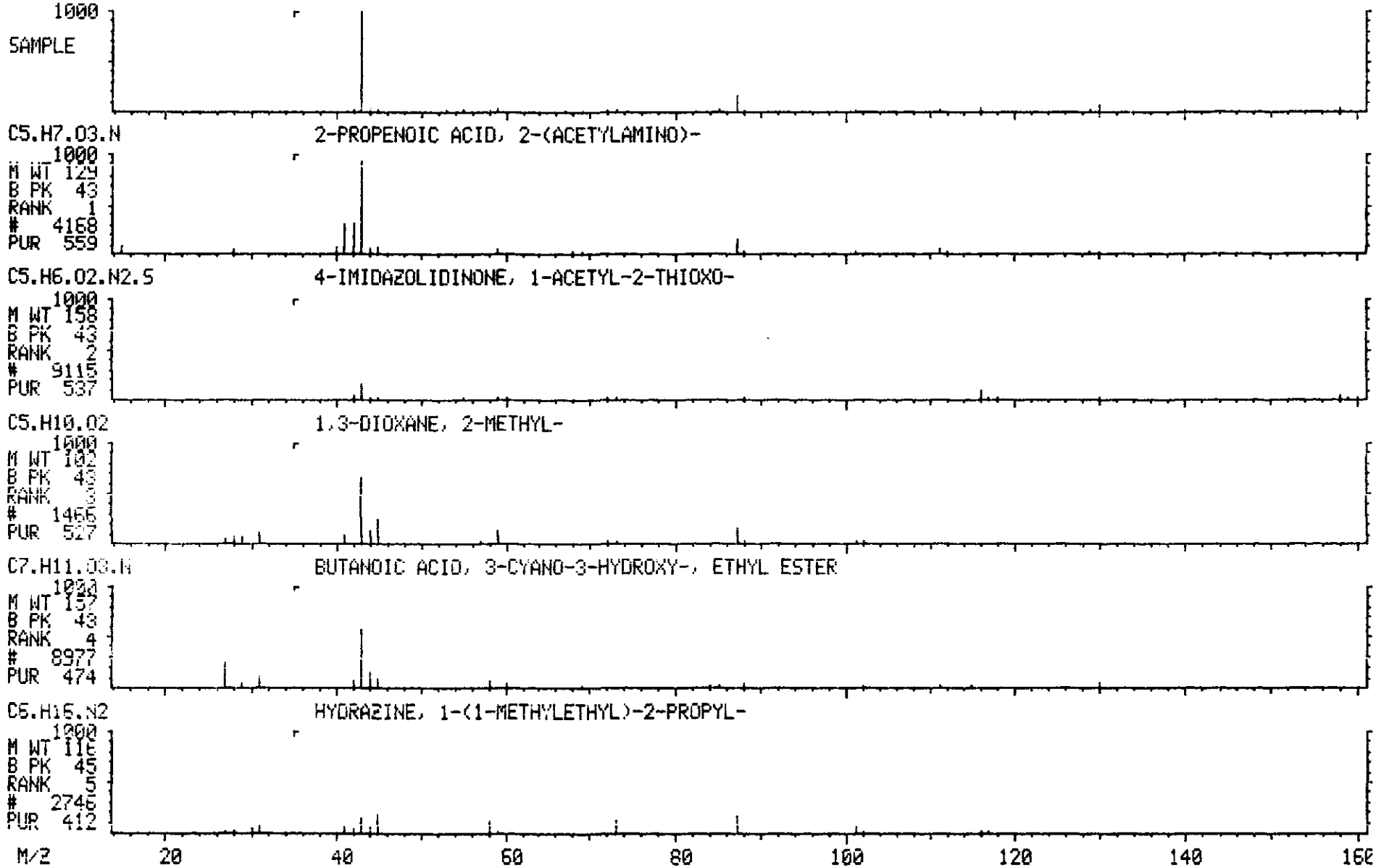
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 15:46:00 + 13:43
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 # 823
CALI: T2729 # 2

BASE M/Z: 43
RIC: 17151.

100386



Library Search Data: T2729 # 896 Base m/z: 43
05/23/90 15:46:00 + 14:56 Cali: T2729 # 2 RIC: 15183
ORIGINAL (Red)
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
185 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	8672	3-NONANONE, 2-METHYL-
2	8897	PENTANOIC ACID, 2,2-DIMETHYL-, ETHENYL ESTER
3	8828	7-OXABICYCLO[4.1.0]HEPTAN-1-OL, ACETATE
4	4088	2-HEXANONE, 3,3-DIMETHYL-
5	573	PYRROLIDINE, 3-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H20.O	156	43	621	771	624
2	C9.H16.O2	156	43	576	738	602
3	C8.H12.O3	156	43	575	782	614
4	C8.H16.O	128	43	553	878	561
5	C5.H11.N	85	43	541	890	553

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	---	---	---	---	5445-31-8
2	---	---	---	---	44970-05-0
3	---	---	---	---	14161-46-7
4	---	---	---	---	26118-38-7
5	---	---	---	---	34375-89-8

✓

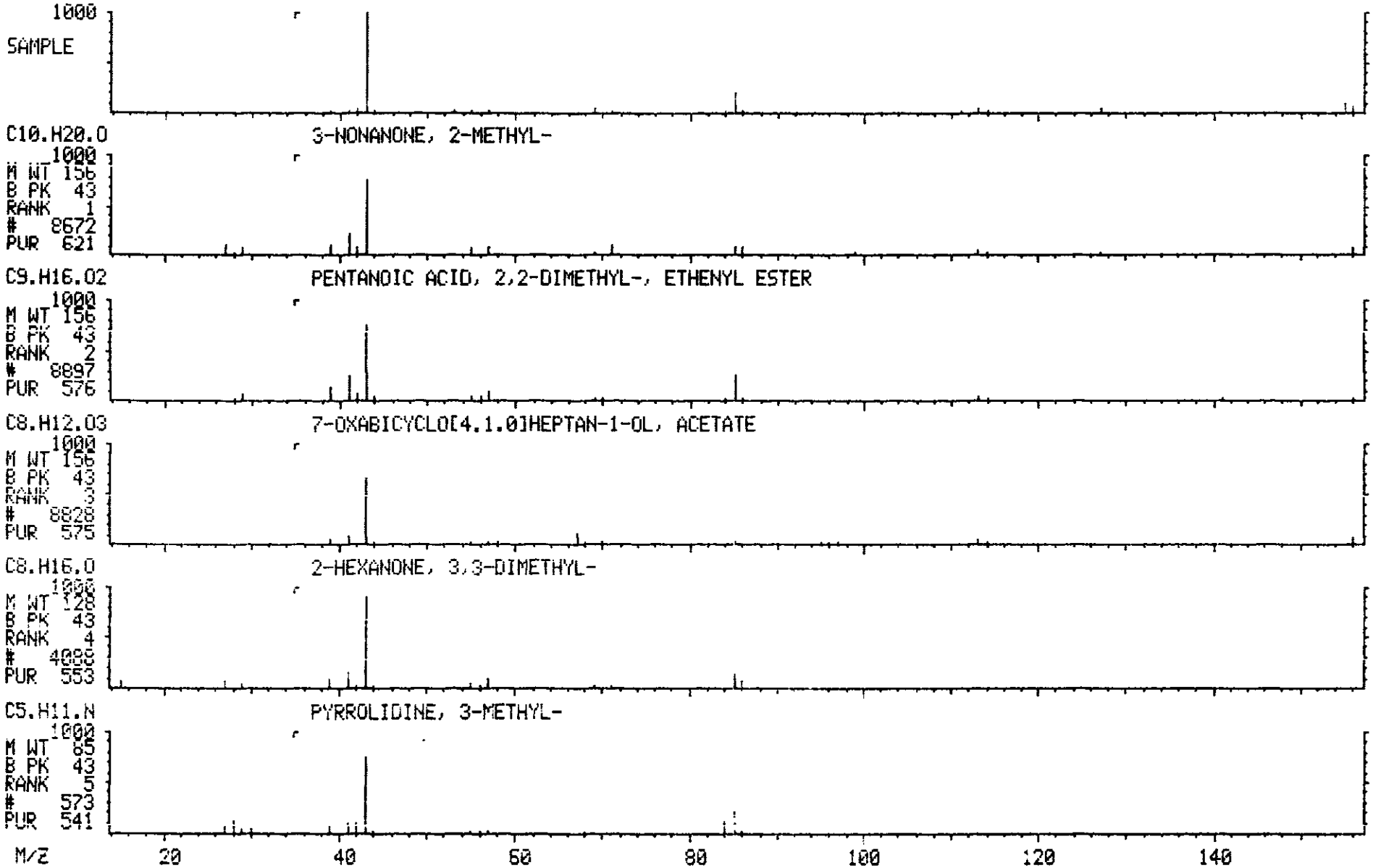
ORIGINAL (Red)

100388

LIBRARY SEARCH
05/23/90 15:46:00 + 14:56
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 # 896
CALI: T2729 # 2

BASE M/Z: 43
RIC: 15183.



ORIGINAL (Red)

Library Search Data: T2729 #1196 Base m/z: 182
05/23/90 15:46:00 + 19:56 Cali: T2729 # 2 RIC: 14063.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N 0T)

42223 spectra in LIBRARYNB searched for maximum PURITY
167 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	13519	DIBENZOFURAN, 4-METHYL-
2	13515	9H-XANTHENE
3	13613	1,2-BENZENEDICARBOXYLIC ACID, 4-HYDROXY-
4	13518	[1,1'-BIPHENYL]-4-CARBOXALDEHYDE
5	26465	ETHANONE, 1-[1,1'-BIPHENYL]-4-YL-2-BROMO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H10.O	182	182	817	970	841
2	C13.H10.O	182	181	807	955	815
3	C8.H6.O5	182	181	794	949	794
4	C13.H10.O	182	182	785	957	810
5	C14.H11.O.BR	274	181	674	753	740

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	7320-53-8
2	—	—	—	—	92-83-1
3	—	—	—	—	610-35-5
4	—	—	—	—	3218-36-8
5	—	—	—	—	135-73-9

✓

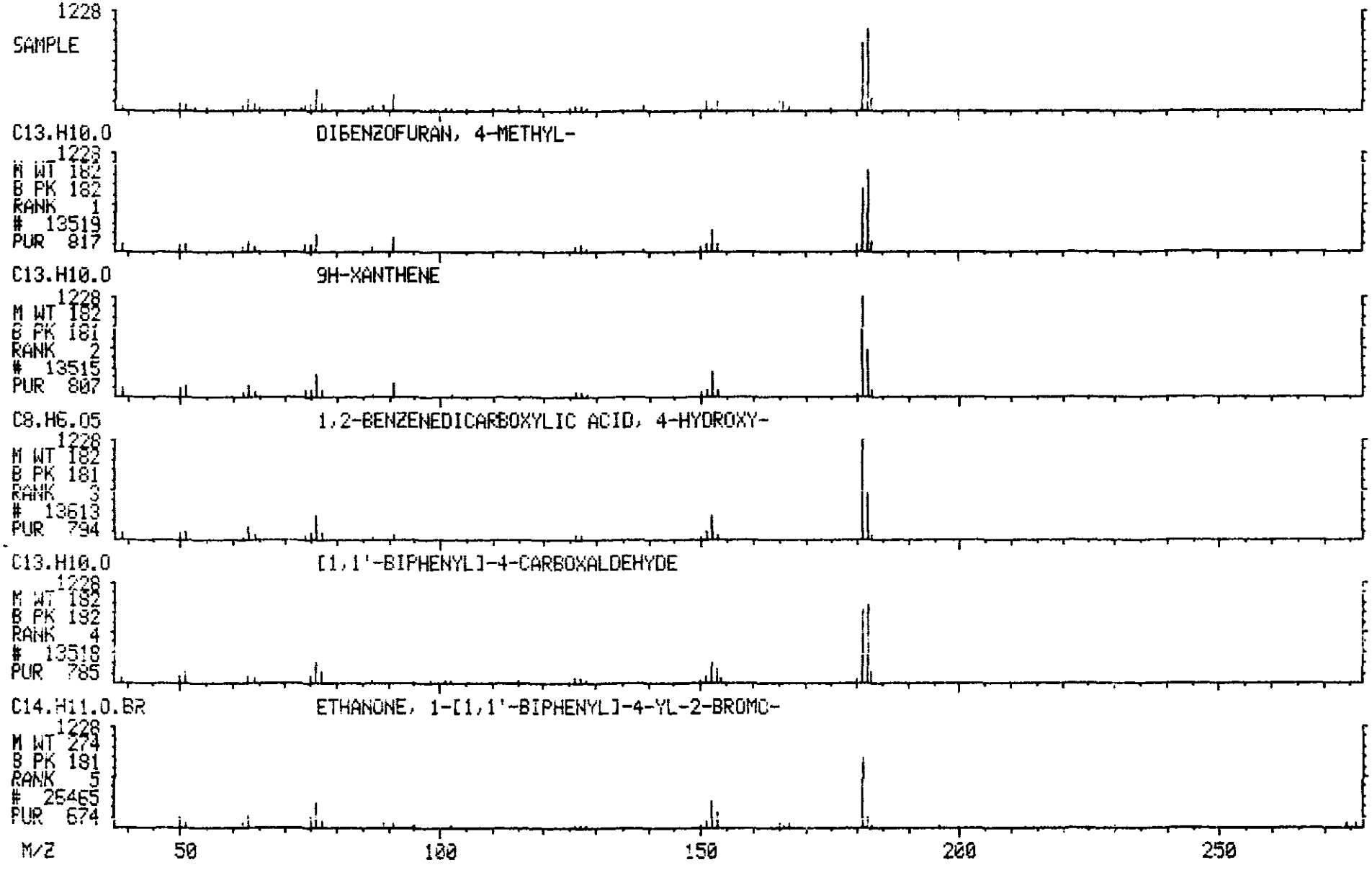
ORIGINAL (Red)

100390

LIBRARY SEARCH
05/23/90 15:46:00 + 19:56
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1196
CALI: T2729 # 2

BASE M/Z: 182
RIC: 14063.



Library Search Data: T2729 #1441 Base m/z: 192
05/23/90 15:46:00 + 24:01 Cali: T2729 # 2 RIC: 38719.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
67 matched at least 5 of the 16 largest peaks in the unknown

pah

Rank	In.	Name
1	15142	PHENANTHRENE, 9-METHYL-
2	15137	ANTHRACENE, 2-METHYL-
3	15141	PHENANTHRENE, 3-METHYL-
4	15144	PHENANTHRENE, 2-METHYL-
5	15136	ANTHRACENE, 1-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H12	192	192	848	943	878
2	C15.H12	192	192	845	952	874
3	C15.H12	192	192	844	941	884
4	C15.H12	192	192	843	947	874
5	C15.H12	192	192	842	961	851

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	883-20-5
2	—	—	—	—	613-12-7
3	—	—	—	—	832-71-3
4	—	—	—	—	2531-84-2
5	—	—	—	—	610-48-0

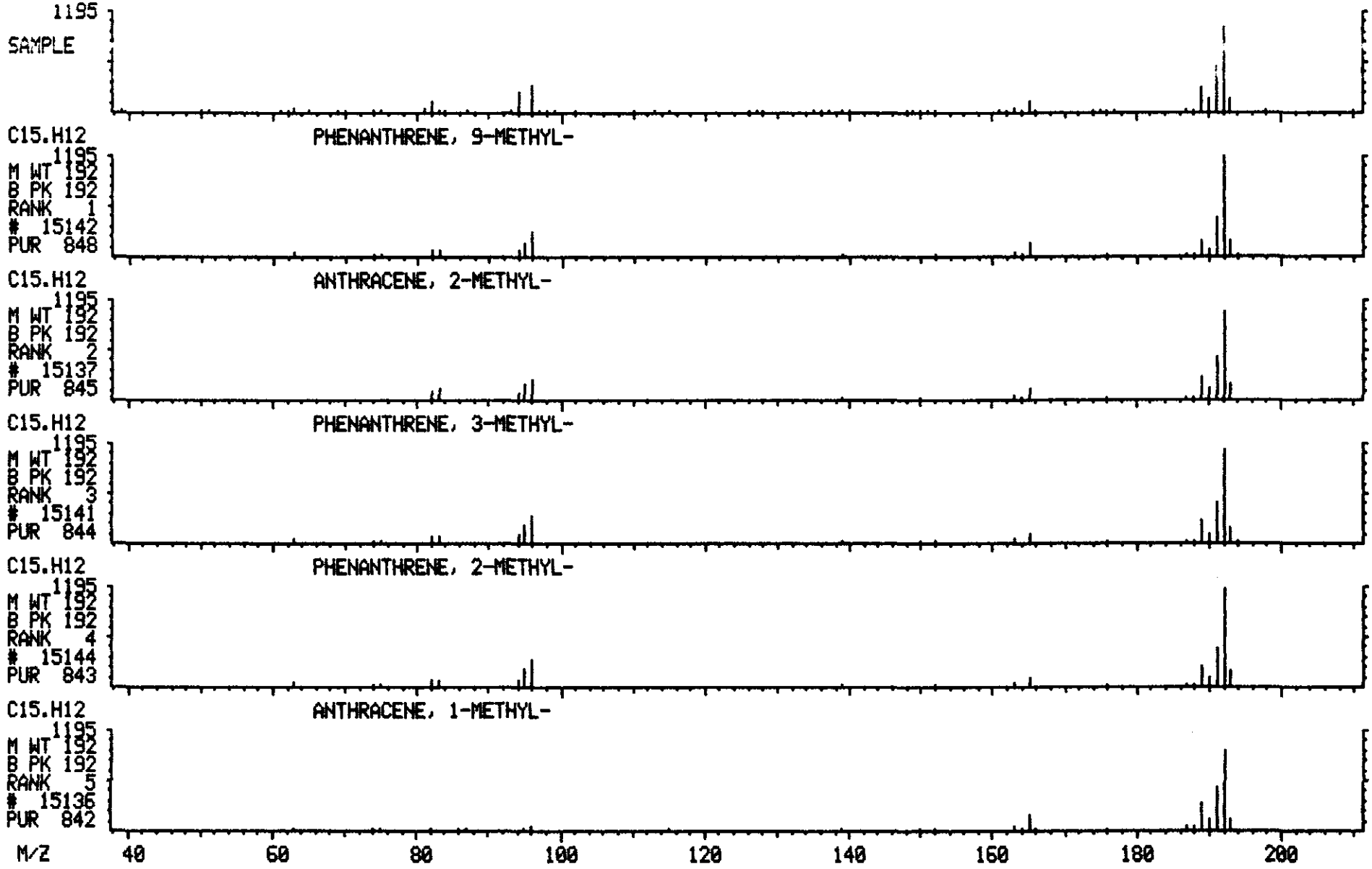
✓

100392

LIBRARY SEARCH
05/23/90 15:46:00 + 24:01
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1441
CALI: T2729 # 2

BASE M/Z: 192
RIC: 38719.



Library Search Data: T2729 #1458 Base m/z: 190
05/23/90 15:46:00 + 24:18 Cali: T2729 # 2 RIC: 59071.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
72 matched at least 5 of the 16 largest peaks in the unknown

Peak

Rank	In.	Name
1	14848	4H-CYCLOPENTA[DEF]PHENANTHRENE
2	15136	ANTHRACENE, 1-METHYL-
3	15139	PHENANTHRENE, 4-METHYL-
4	14963	9H-FLUORENE-2-CARBONITRILE
5	15137	ANTHRACENE, 2-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H10	190	190	635	734	780
2	C15.H12	192	192	629	700	643
3	C15.H12	192	192	615	700	661
4	C14.H9.N	191	191	594	709	606
5	C15.H12	192	192	573	650	625

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	203-64-5
2	—	—	—	—	610-48-0
3	—	—	—	—	832-64-4
4	—	—	—	—	2523-48-0
5	—	—	—	—	613-12-7

✓

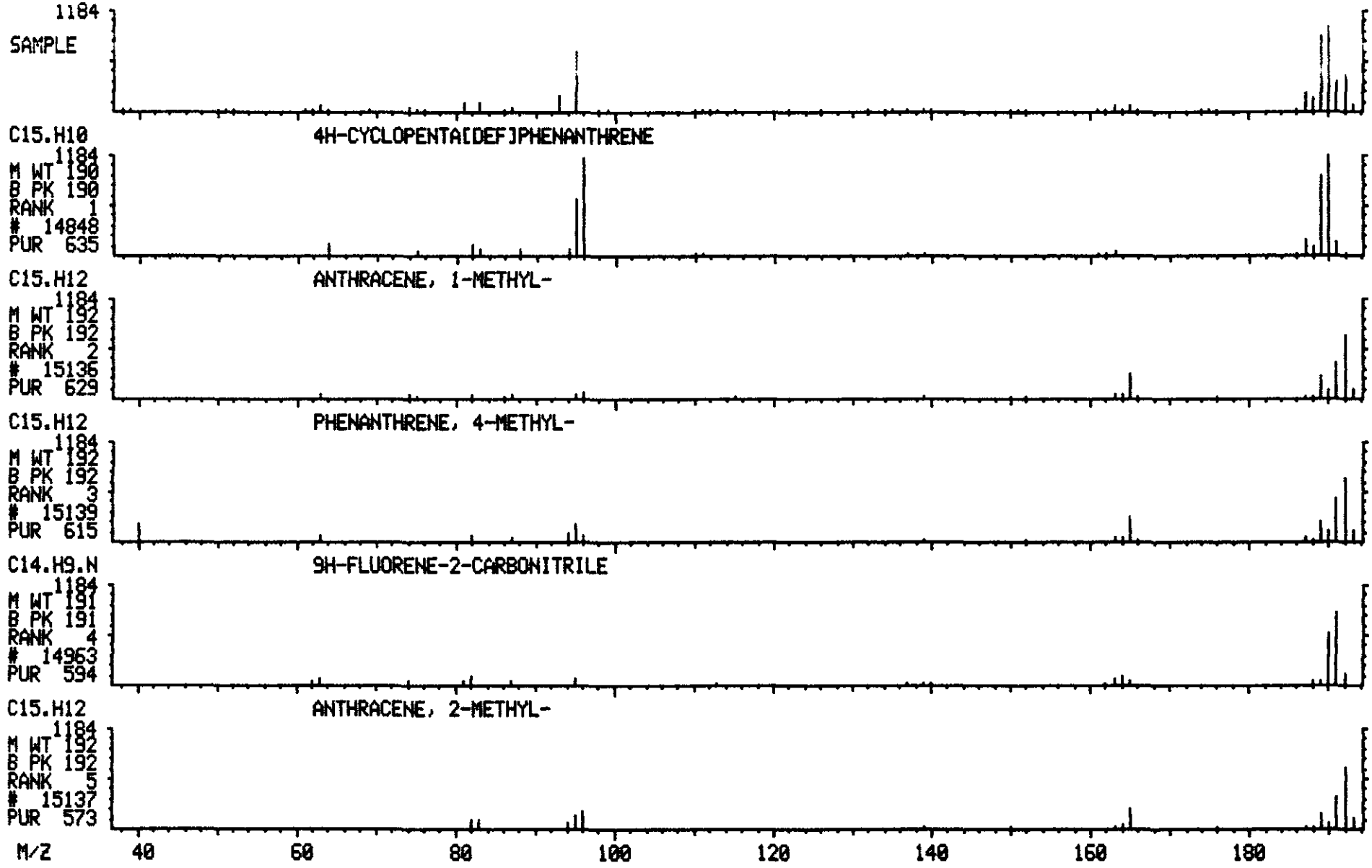
100393

LIBRARY SEARCH
05/23/90 15:46:00 + 24:18
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1458
CALI: T2729 # 2

BASE M/Z: 190
RIC: 59071.

100394



Library Search Data: T2729 #1495 Base m/z: 204
05/23/90 15:46:00 + 24:55 Cali: T2729 # 2 RIC: 21759.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
70 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	17245	NAPHTHALENE, 2-PHENYL-
2	17250	BENZENE, 1,1'-(1-BUTEN-3-YNE-1,4-DIYL)BIS-
3	17244	NAPHTHALENE, 1-PHENYL-
4	17246	ANTHRACENE, 9-ETHENYL-
5	17252	1,4-ETHENOANTHRACENE, 1,4-DIHYDRO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H12	204	204	840	976	850
2	C16.H12	204	204	825	963	825
3	C16.H12	204	204	817	968	817
4	C16.H12	204	204	806	953	806
5	C16.H12	204	204	795	960	795

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	612-94-2
2	—	—	—	—	13141-45-2
3	—	—	—	—	605-02-7
4	—	—	—	—	2444-68-0
5	—	—	—	—	27765-96-4

✓

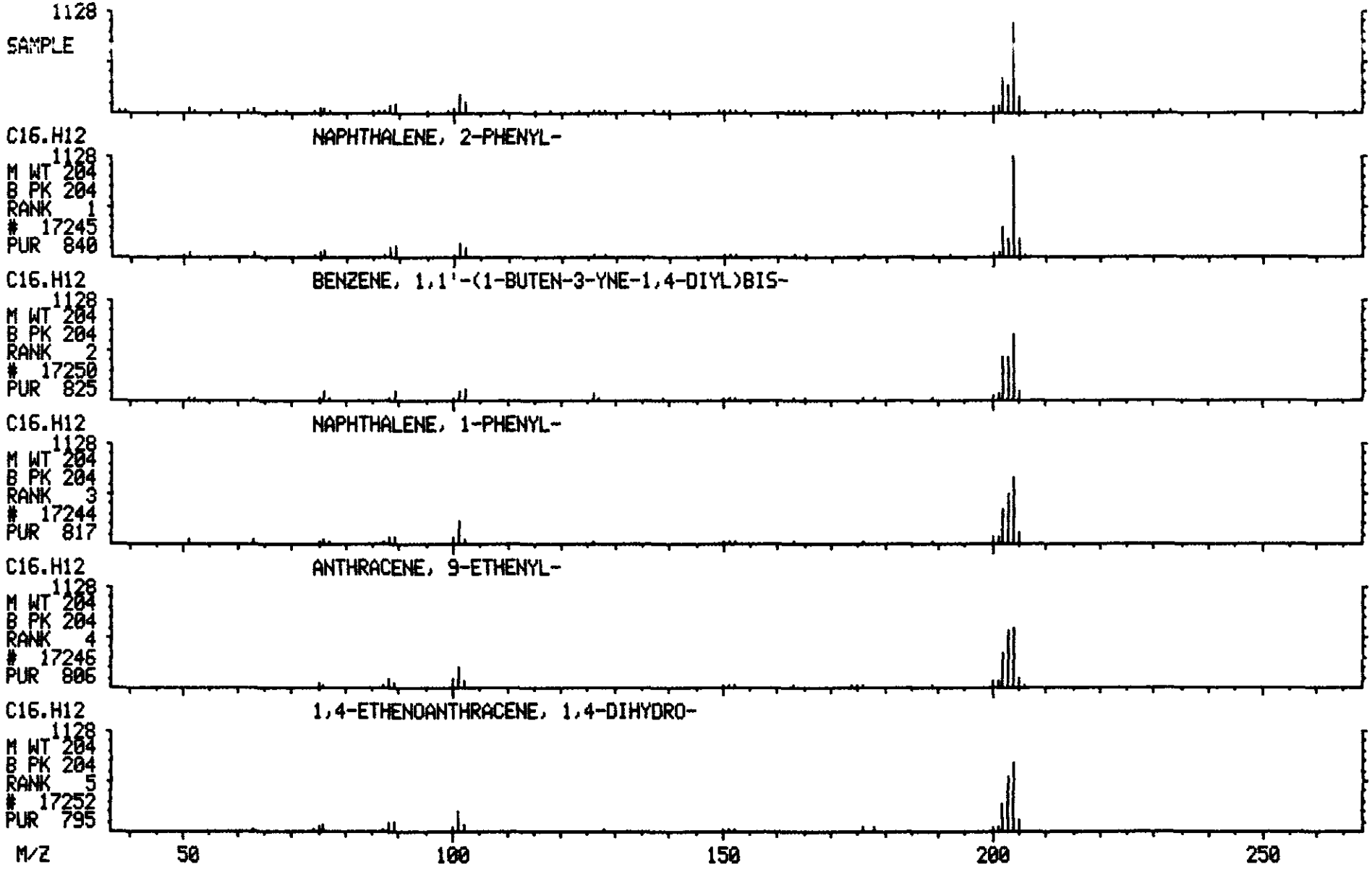
100395

LIBRARY SEARCH
05/23/90 15:46:00 + 24:55
SAMPLE: CLP,VERSCOM,2565,12,L,5,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (5 15B 2N 0T)

DATA: T2729 #1495
CALI: T2729 # 2

BASE M/Z: 204
RIC: 21759.

100396



Library Search Data: T2729 #1651 Base m/z: 244
05/23/90 15:46:00 + 27:31 Cali: T2729 # 2 RIC: 99327.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42222 spectra in LIBRARYNB searched for maximum PURITY
80 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	27939	ETHYLAMINE, N-TRITYL-
2	22851	FERROCENE, 1-(1-HYDROXYETHYL)-3-METHYL-
3	34469	SULFIDE, BENZYL TRITYL
4	22814	BENZ[C]ACRIDINE, 5-METHYL-
5	22812	9H-CARBAZOLE, 9-PHENYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C21.H21.N	287	244	420	663	540
2	C13.H16.O.FE	244	244	416	738	473
3	C26.H22.S	366	243	376	515	529
4	C18.H13.N	243	243	329	550	362
5	C18.H13.N	243	243	326	452	405

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	7370-34-5
2	—	—	—	—	12289-11-1
3	—	—	—	—	6622-14-6
4	—	—	—	—	3519-87-7
5	—	—	—	—	1150-62-5

✓

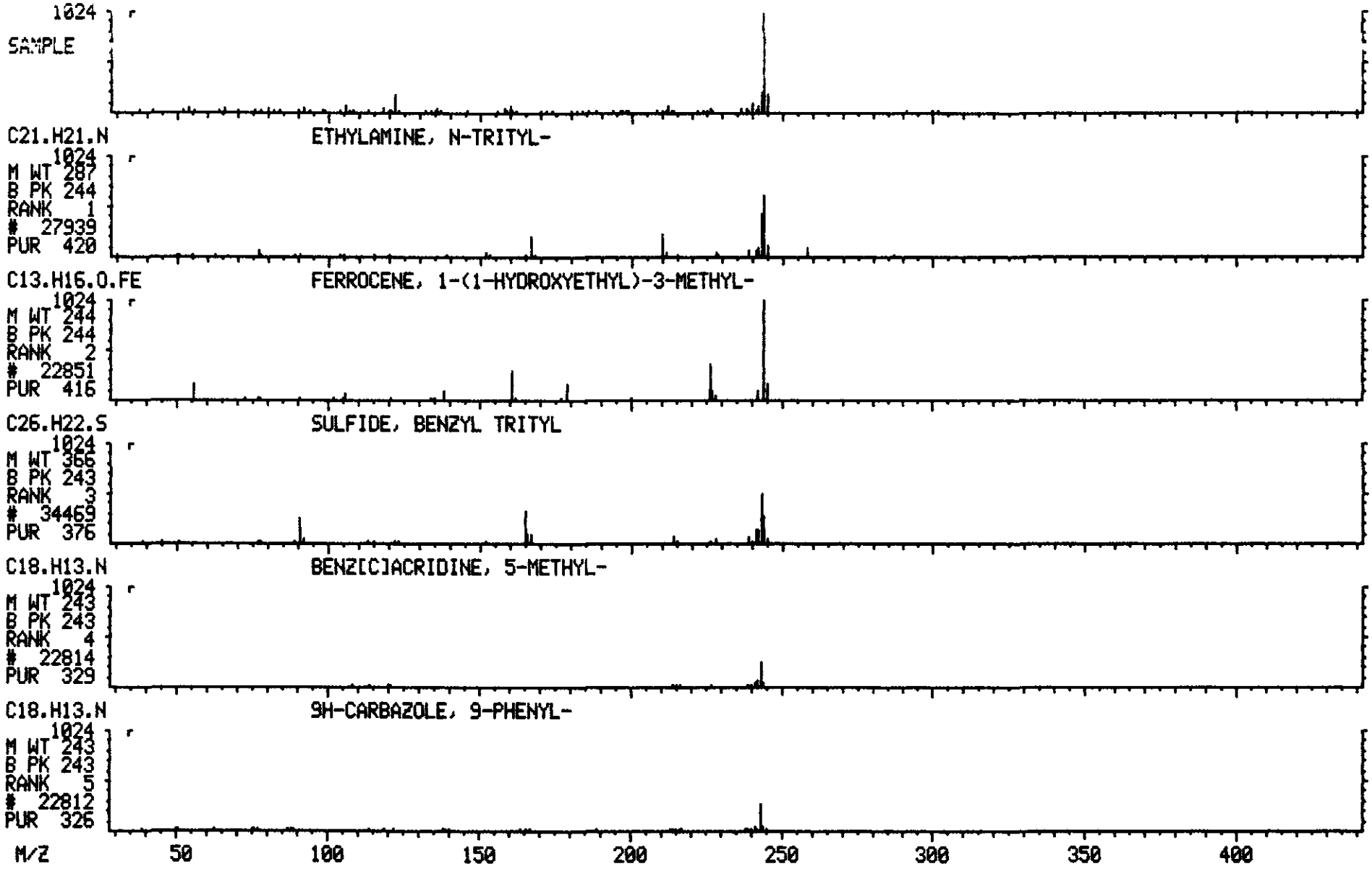
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 15:46:00 + 27:31
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1651
CALI: T2729 # 2

BASE M/Z: 244
RIC: 99327.

100368



Library Search Data: T2729 #1681 Base m/z: 216
05/23/90 15:46:00 + 28:01 Cali: T2729 # 2 RIC: 51647.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
188 matched at least 4 of the 16 largest peaks in the unknown

Pah

Rank	In.	Name
1	19073	11H-BENZO[B]FLUORENE
2	19075	PYRENE, 4-METHYL-
3	19076	PYRENE, 2-METHYL-
4	19074	PYRENE, 1-METHYL-
5	19072	11H-BENZO[A]FLUORENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C17.H12	216	216	801	880	854
2	C17.H12	216	216	796	878	842
3	C17.H12	216	216	793	878	842
4	C17.H12	216	216	775	861	853
5	C17.H12	216	216	773	854	873

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	243-17-4
2	—	—	—	—	3353-12-6
3	—	—	—	—	3442-78-2
4	—	—	—	—	2381-21-7
5	—	—	—	—	238-84-6

✓

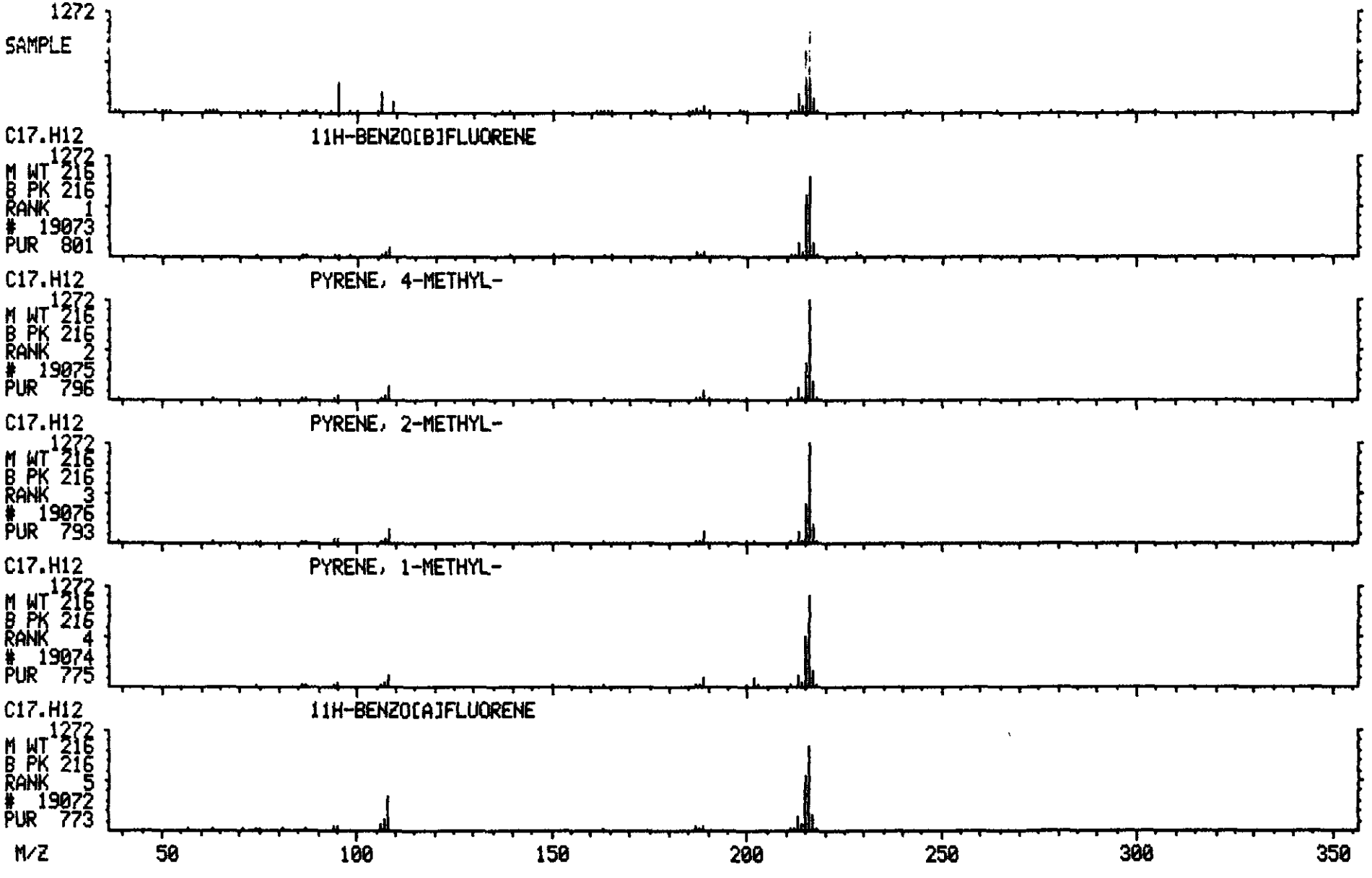
100400

ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 15:46:00 + 28:01
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1681
CALI: T2729 # 2

BASE M/Z: 216
RIC: 51647.



Library Search Data: T2729 #1692 Base m/z: 216
05/23/90 15:46:00 + 28:12 Cali: T2729 # 2 RIC: 33599.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42222 spectra in LIBRARYNB searched for maximum PURITY
195 matched at least 4 of the 16 largest peaks in the unknown

Pah

Rank	In.	Name
1	19072	11H-BENZO[A]FLUORENE
2	19073	11H-BENZO[B]FLUORENE
3	19075	PYRENE, 4-METHYL-
4	19076	PYRENE, 2-METHYL-
5	19074	PYRENE, 1-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C17.H12	216	216	869	950	888
2	C17.H12	216	216	855	927	893
3	C17.H12	216	216	835	914	858
4	C17.H12	216	216	828	909	864
5	C17.H12	216	216	815	898	880

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	238-84-6
2	—	—	—	—	243-17-4
3	—	—	—	—	3353-12-6
4	—	—	—	—	3442-78-2
5	—	—	—	—	2381-21-7

✓

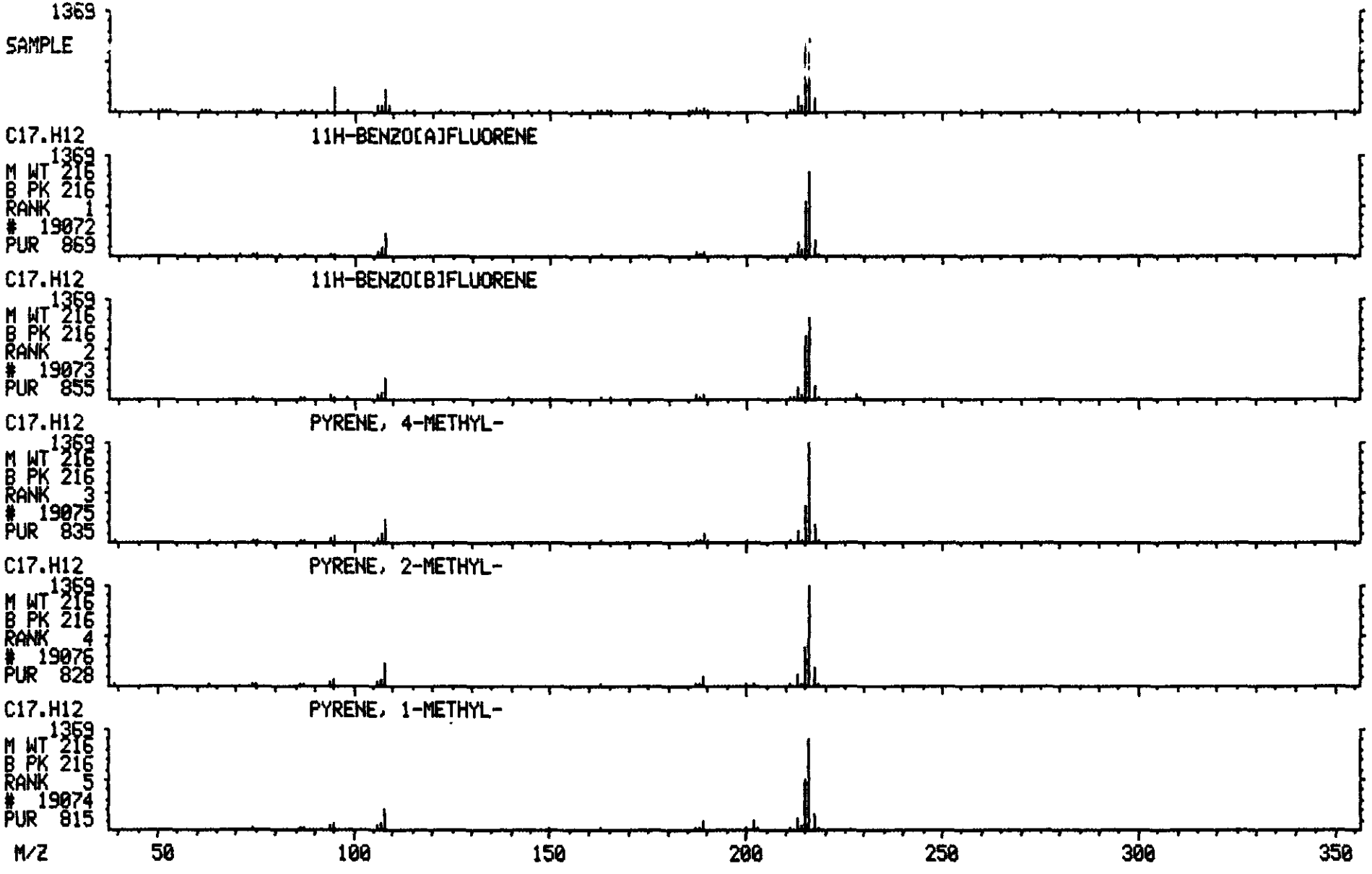
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 15:46:00 + 28:12
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1692
CALI: T2729 # 2

BASE M/Z: 216
RIC: 33599.

100402



Library Search Data: T2729 #1922 Base m/z: 242
05/23/90 15:46:00 + 32:02 Cali: T2729 # 2 RIC: 19199.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
82 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	22729	BENZ[A]ANTHRACENE, 12-METHYL-
2	22721	TRIPHENYLENE, 2-METHYL-
3	22739	CHRYSENE, 5-METHYL-
4	22733	BENZ[A]ANTHRACENE, 7-METHYL-
5	22732	BENZ[A]ANTHRACENE, 1-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H14	242	242	857	977	866
2	C19.H14	242	242	857	984	863
3	C19.H14	242	242	857	977	870
4	C19.H14	242	242	852	980	857
5	C19.H14	242	242	851	976	865

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	2422-79-9
2	—	—	—	—	1705-84-6
3	—	—	—	—	3697-24-3
4	—	—	—	—	2541-69-7
5	—	—	—	—	2498-77-3

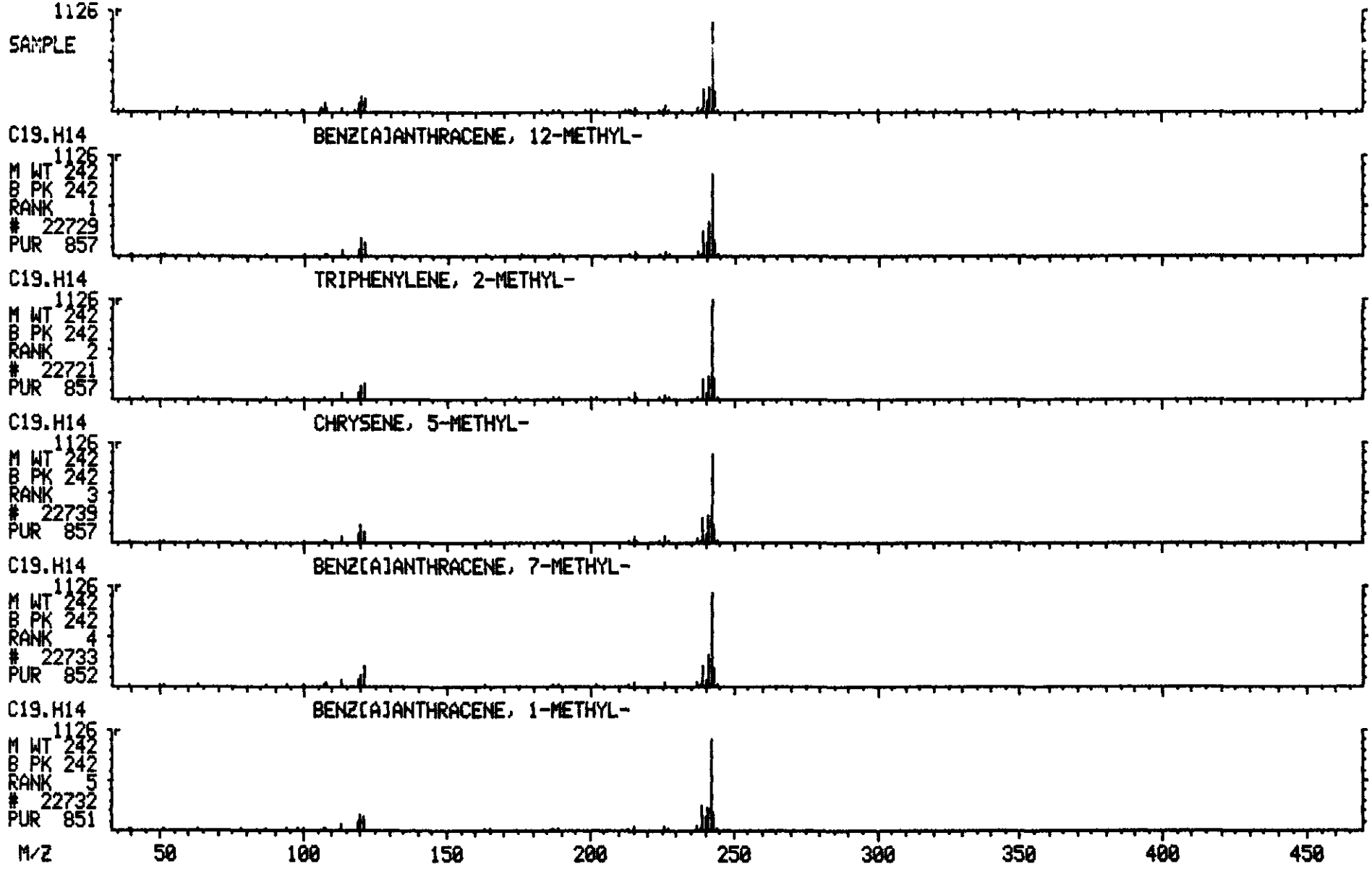
100403

LIBRARY SEARCH
05/23/90 15:46:00 + 32:02
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1922
CALI: T2729 # 2

BASE M/Z: 242
RIC: 19199.

100404



Library Search Data: T2729 #1945 Base m/z: 240
05/23/90 15:46:00 + 32:25 Cali: T2729 # 2 RIC: 14031.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
134 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	22392	[1]BENZOTHIENO[4,5-B][1]BENZOTHIOPHENE
2	22729	BENZ[A]ANTHRACENE, 12-METHYL-
3	22740	BENZO[C]PHENANTHRENE, 1-METHYL-
4	22393	INDENO[2',1':4,5]THIENO[3,2-B]THIOPYRAN
5	22732	BENZ[A]ANTHRACENE, 1-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H8.S2	240	240	432	701	516
2	C19.H14	242	242	430	599	501
3	C19.H14	242	28	416	584	549
4	C14.H8.S2	240	240	411	703	470
5	C19.H14	242	242	410	569	492

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	55134-02-6
2	—	—	—	—	2422-79-9
3	—	—	—	—	4076-39-5
4	—	—	—	—	56830-85-4
5	—	—	—	—	2498-77-3

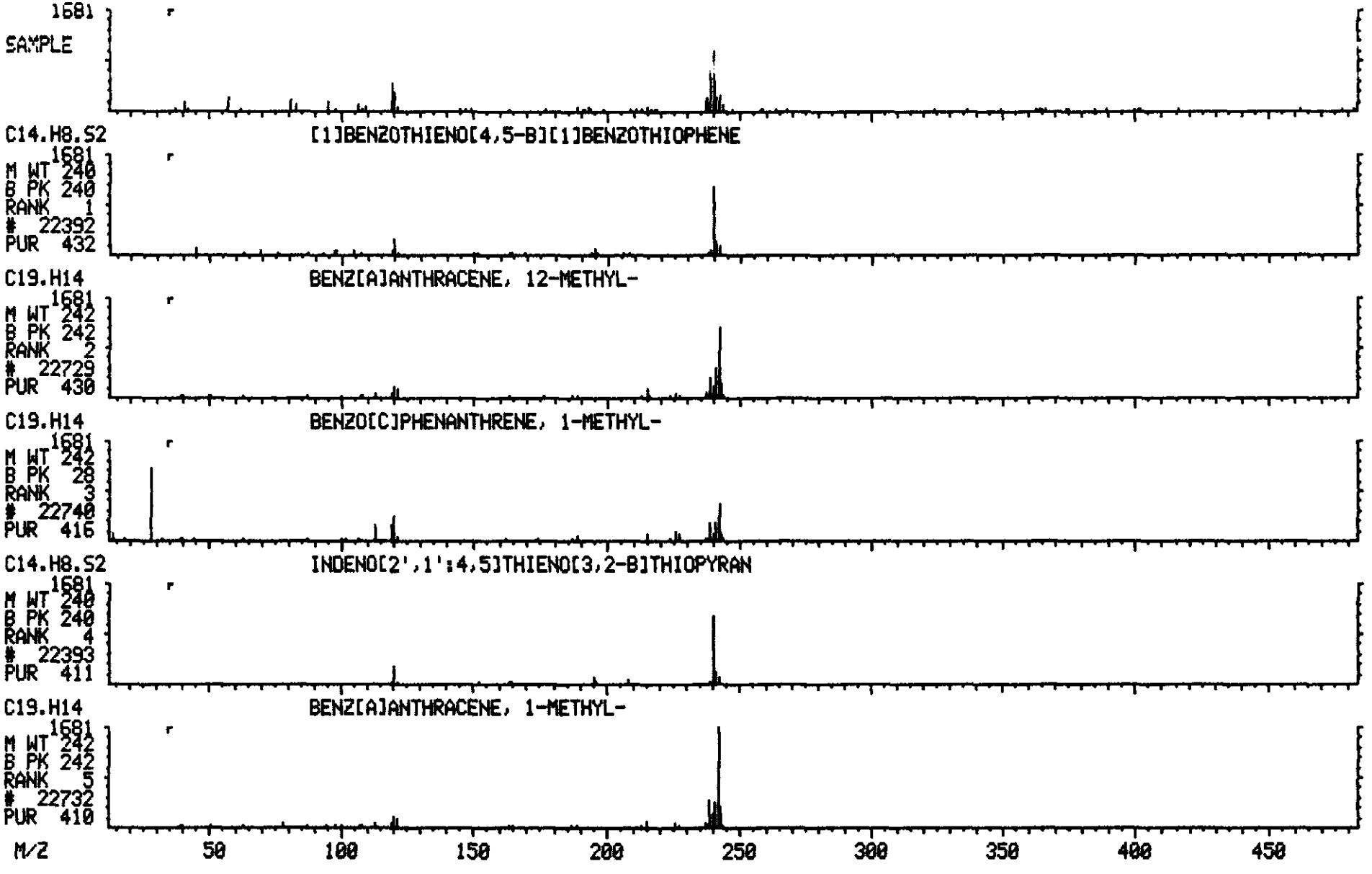
✓

LIBRARY SEARCH
05/23/90 15:46:00 + 32:25
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #1945
CALI: T2729 # 2

BASE M/Z: 240
RIC: 14031.

100406



Library Search Data: T2729 #2001 Base m/z: 59
05/23/90 15:46:00 + 33:21 Cali: T2729 # 2 RIC: 42111
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
54 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	27222	9-OCTADECENAMIDE, (Z)-
2	2597	PENTANAMIDE, 4-METHYL-
3	1394	PENTANAMIDE
4	2594	HEXANAMIDE
5	27224	9-OCTADECENAMIDE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H35.O.N	281	59	485	849	546
2	C6.H13.O.N	115	59	473	902	479
3	C5.H11.O.N	101	59	423	833	445
4	C6.H13.O.N	115	59	419	838	436
5	C18.H35.O.N	281	41	363	640	505

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	301-02-0
2	—	—	—	—	1119-29-5
3	—	—	—	—	626-97-1
4	—	—	—	—	628-02-4
5	—	—	—	—	3322-62-1

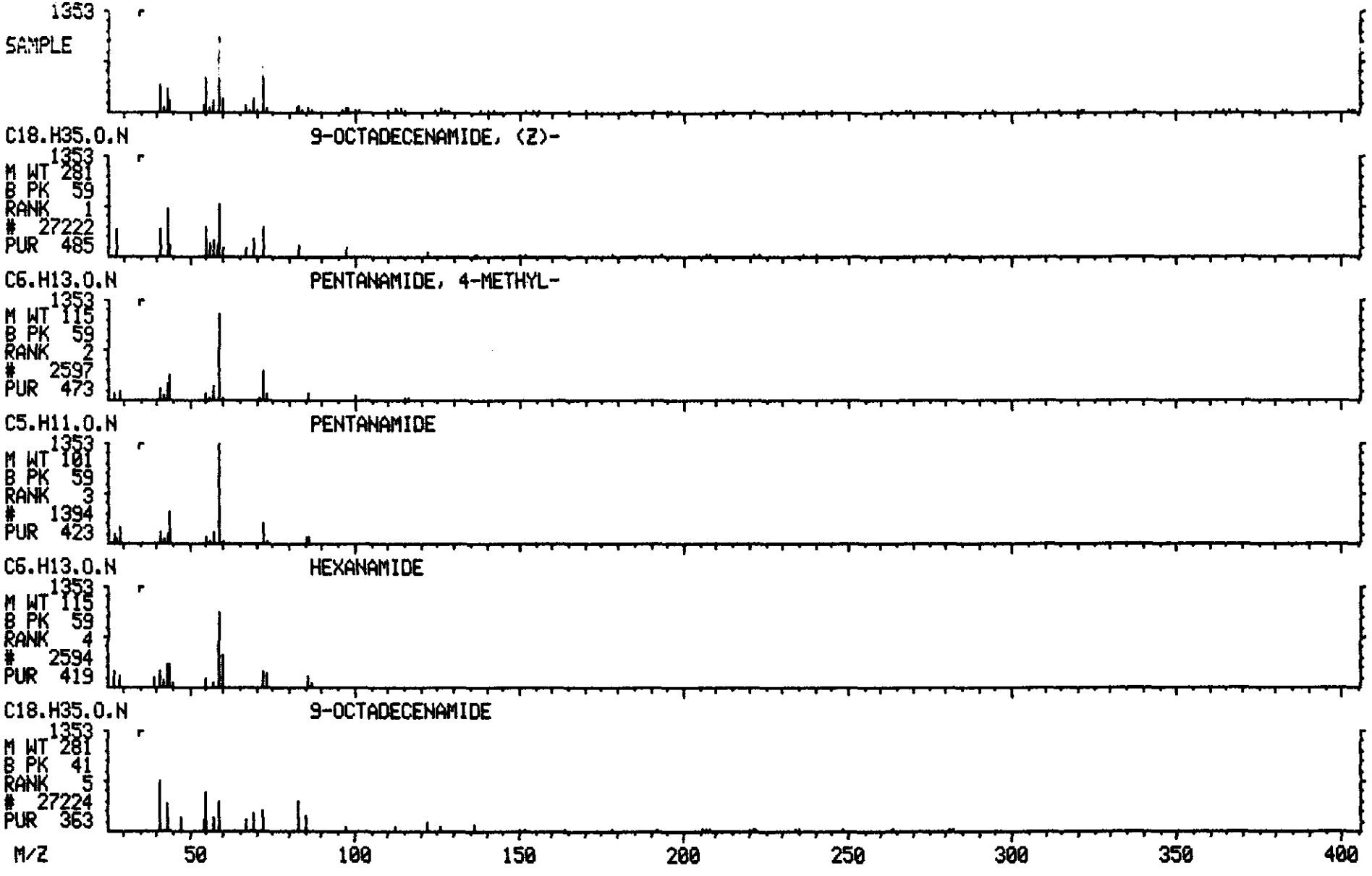
100407

100408

LIBRARY SEARCH
05/23/90 15:46:00 + 33:21
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #2001
CALI: T2729 # 2

BASE M/Z: 59
RIC: 42111.



Library Search Data: T2729 #2101 Base m/z: 252
05/23/90 15:46:00 + 35:01 Cali: T2729 # 2 RIC: 43071
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
156 matched at least 4 of the 16 largest peaks in the unknown

Peh

Rank	In.	Name
1	23964	BENZO[J]FLUORANTHENE
2	23966	BENZO[K]FLUORANTHENE
3	23965	BENZ[E]ACEPHENANTHRYLENE
4	23962	BENZO[E]PYRENE
5	23961	BENZO[A]PYRENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C20.H12	252	252	910	981	919
2	C20.H12	252	252	900	972	910
3	C20.H12	252	252	900	971	913
4	C20.H12	252	252	898	969	922
5	C20.H12	252	252	893	968	902

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	205-82-3
2	—	—	—	—	207-08-9
3	—	—	—	—	205-99-2
4	—	—	—	—	192-97-2
5	—	—	—	—	50-32-8

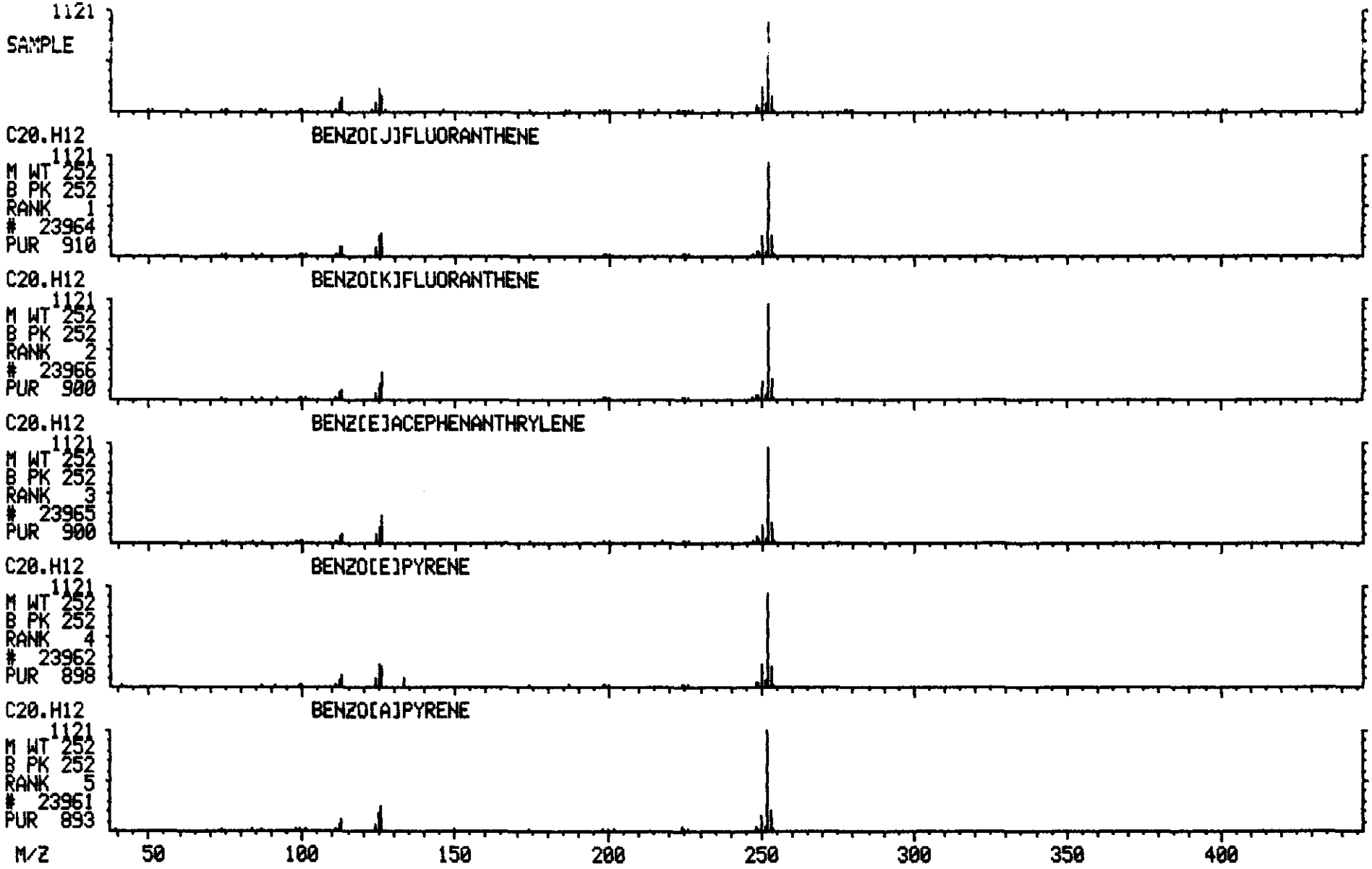
✓

LIBRARY SEARCH
05/23/90 15:46:00 + 35:01
SAMPLE: CLP,VERSCOM,2565,12,L,5,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #2101
CALI: T2729 # 2

BASE M/Z: 252
RIC: 43071.

100410



Library Search Data: T2729 #2127 Base m/z: 264
05/23/90 15:46:00 + 35:27 Cali: T2729 # 2 RIC: 91903.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
103 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	25344	DIFTALONE (USAN)
2	25363	1,2,4-OXADIAZOLE, 5-(2,4-DIMETHYLPHENYL)-3-(2-METHYLPHENYL)-
3	25359	QUINOXALINE, 2-ISOPROPYL-3-PHENYL-, 4-OXIDE
4	34290	RHODIUM, BIS[5,6-BIS(.ETA.2-ETHENYL)CYCLOOCTENE](2,4-PENTANEDIONATO*
5	28341	6H-[1]BENZOTHIOPYRANO[4,3-B]QUINOLINE, 6,6,7-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H12.O2.N2	264	264	612	854	657
2	C17.H16.O.N2	264	264	328	497	588
3	C17.H16.O.N2	264	264	326	506	514
4	C17.H25.O2.RH	364	364	290	393	476
5	C19.H17.N.S	291	263	252	316	332

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	21626-89-1
2	—	—	—	—	77774-28-8
3	—	—	—	—	16007-79-7
4	—	—	—	—	74810-99-4
5	—	—	—	—	77828-52-5

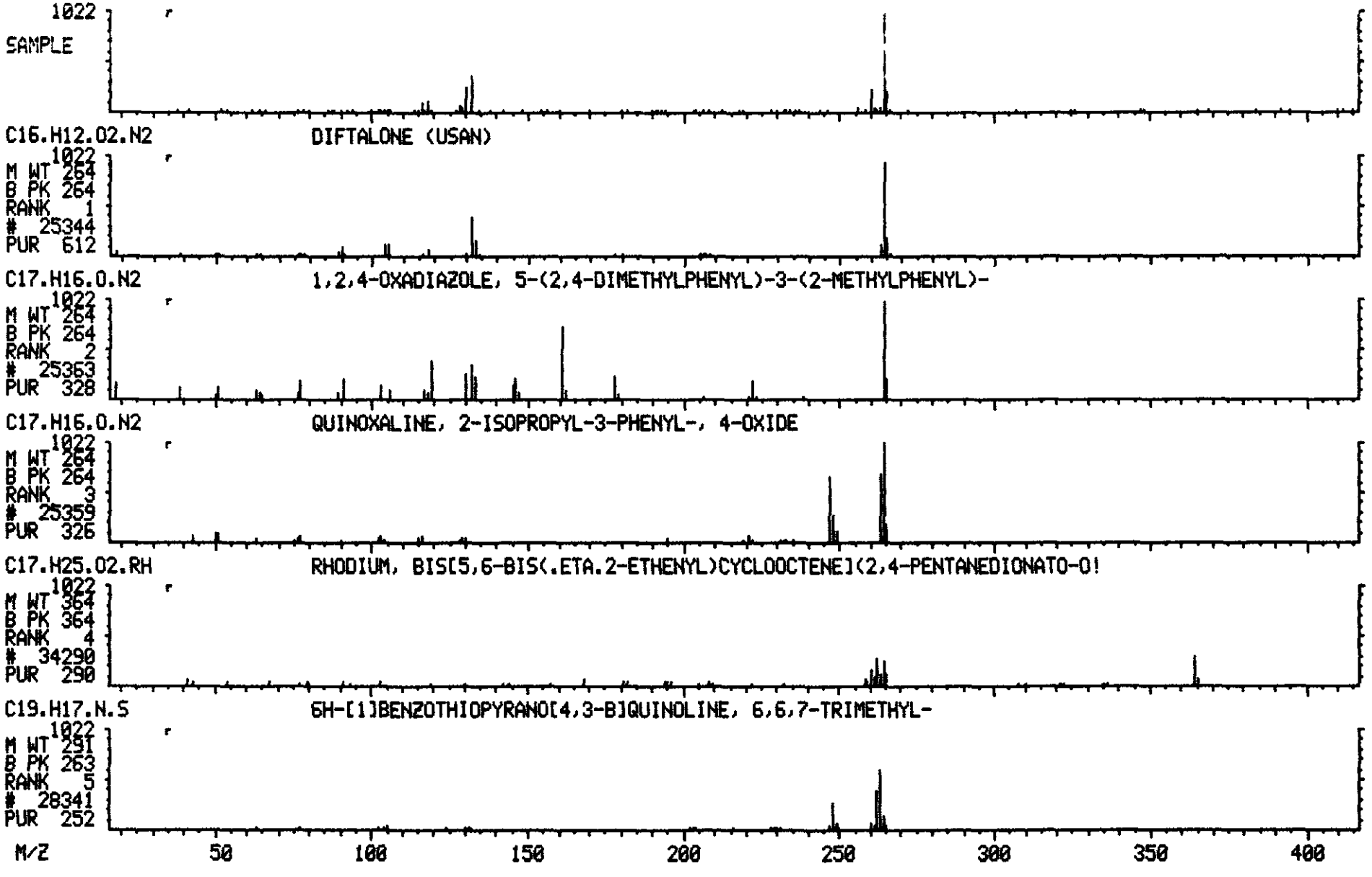
✓

LIBRARY SEARCH
05/23/90 15:46:00 + 35:27
SAMPLE: CLP,VERSCOM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #2127
CALI: T2729 # 2

BASE M/Z: 264
RIC: 91903.

100412



Library Search Data: T2729 #2270 Base m/z: 191
05/23/90 15:46:00 + 37:50 Cali: T2729 # 2 RIC: 17791
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
299 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	17537	1H-3A,7-METHANOAZULENE, OCTAHYDRO-1,4,9,9-TETRAMETHYL-, (1.ALPHA.,3*
2	25182	5-OCTEN-2-ONE, 6-METHYL-8-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)-
3	34095	ANTHRACENE, 9-DODECYLTETRADECAHYDRO-
4	25366	3H-NAPHTHO[2,1-B]PYRAN-3-ONE, DODECAHYDRO-4A,7,7,10A-TETRAMETHYL-, *
5	17542	4,7-METHANOAZULENE, DECAHYDRO-1,4,9,9-TETRAMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H26	206	41	473	836	484
2	C18.H30.O	262	43	417	773	494
3	C26.H48	360	191	406	799	455
4	C17.H28.O2	264	192	403	708	516
5	C15.H26	206	41	401	815	416

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	3724-42-3
2	—	—	—	—	55638-41-0
3	—	—	—	—	55401-75-7
4	—	—	—	—	468-84-8
5	—	—	—	—	20478-88-0

✓

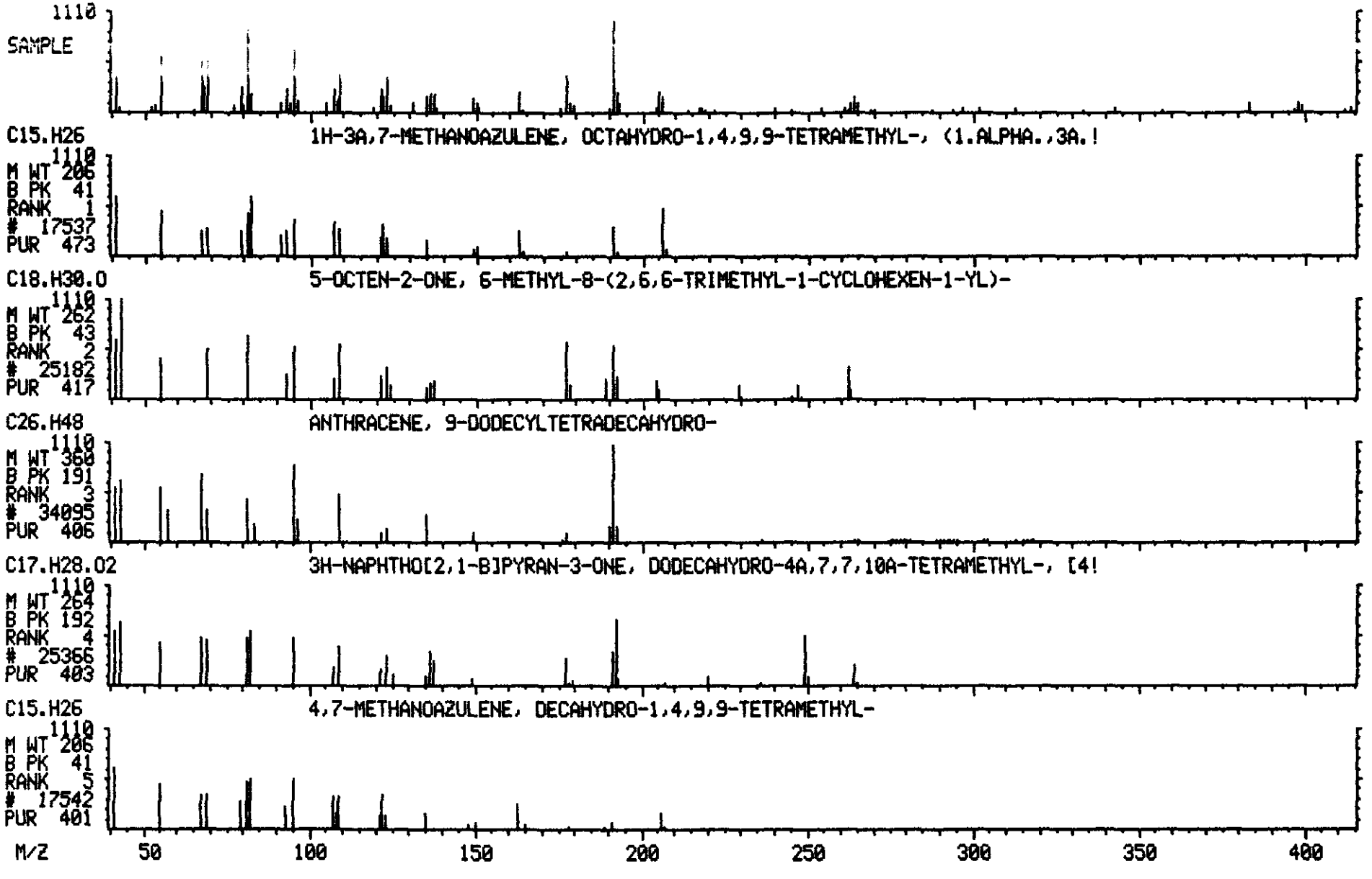
ORIGINAL (Red)

1004414

LIBRARY SEARCH
05/23/90 15:46:00 + 37:50
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #2270
CALI: T2729 # 2

BASE M/Z: 191
RIC: 17791.



Library Search Data: T2729 #2365 Base m/z: 191
05/23/90 15:46:00 + 39:25 Cali: T2729 # 2 RIC: 15327.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
157 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	17547	TRICYCLO[4.3.0.07,9]NONANE, 2,2,5,5,8,8-HEXAMETHYL-, (1.ALPHA.,6.BE*
2	34092	PHENANTHRENE, 9-DODECYLTETRADECAHYDRO-
3	34095	ANTHRACENE, 9-DODECYLTETRADECAHYDRO-
4	30575	1,4-BENZENEDIOL, 2-[(DECAHYDRO-5,5,8A-TRIMETHYL-2-METHYLENE-1-NAPHT*
5	26562	ANTHRACENE, 9-CYCLOHEXYLTETRADECAHYDRO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H26	206	191	452	913	475
2	C26.H48	360	191	440	880	475
3	C26.H48	360	191	428	823	469
4	C21.H30.O2	314	191	419	771	528
5	C20.H34	274	191	404	854	428

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	54832-82-5
2	—	—	—	—	55334-01-5
3	—	—	—	—	55401-75-7
4	—	—	—	—	39707-54-5
5	—	—	—	—	55255-70-4

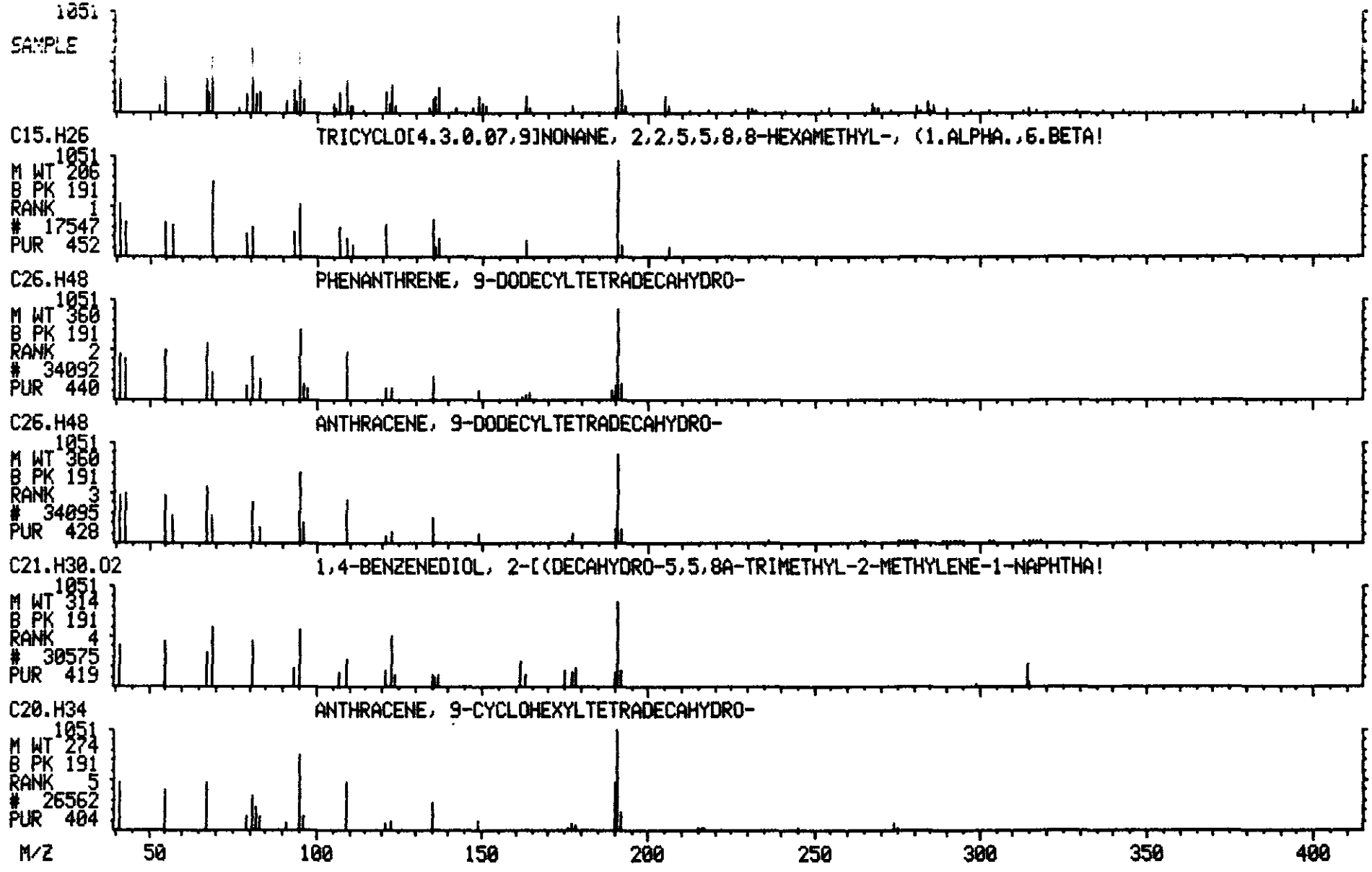
✓

LIBRARY SEARCH
05/23/90 15:46:00 + 39:25
SAMPLE: CLP,VERSCDM,2565,12,L,S,16914,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2729 #2365
CALI: T2729 # 2

BASE M/Z: 191
RIC: 15327.

100416



ORIGINAL (Red)

```
        >>>>INTERNAL STANDARD RIC REPORT<<<<
****************************INTERNAL STANDARD#1*****************RIC
Mass List                        Data: T2729 # 515          Base m/z:   150
05/23/90 15:46:00 +  8:35        Cali: T2729 #    2         RIC:     110720.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     35        0.00    0.00        0. Minima      Min inten:       0.
     30                         #    0  Maxima
****************************INTERNAL STANDARD#2*****************RIC
Mass List                        Data: T2729 # 732          Base m/z:   136
05/23/90 15:46:00 + 12:12        Cali: T2729 #    2         RIC:     154880.
Sample. CLP,VERSCDM,2565,12,L,S,16914,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #    0  Maxima
****************************INTERNAL STANDARD#3*****************RIC
Mass List                        Data: T2729 #1062          Base m/z:   164
05/23/90 15:46:00 + 17:42        Cali: T2729 #    2         RIC:     138496.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #    0  Maxima
****************************INTERNAL STANDARD#4*****************RIC
Mass List                        Data: T2729 #1339          Base m/z:   188
05/23/90 15:46:00 + 22:19        Cali: T2729 #    2         RIC:     138240.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #    0  Maxima
****************************INTERNAL STANDARD#5*****************RIC
Mass List                        Data: T2729 #1850          Base m/z:   240
05/23/90 15:46:00 + 30:50        Cali: T2729 #    2         RIC:     125952.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     42        0.00    0.00        0. Minima      Min inten:       0.
     30                         #    0  Maxima
****************************INTERNAL STANDARD#6*****************RIC
Mass List                        Data: T2729 #2159          Base m/z:   278
05/23/90 15:46:00 + 35:59        Cali: T2729 #    2         RIC:       1582.
Sample: CLP,VERSCDM,2565,12,L,S,16914,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     52        0.00    0.00        0. Minima      Min inten:       0.
     30                         #    0  Maxima
     ANALYST: CHECK BASE M/Z AND RIC AMOUNT TO INSURE NO CONTAMINATION
```

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

13 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4 CDM

Matrix: (soil/water) SOIL Lab Sample ID: 16915

Sample wt/vol: 30.2 (g/mL) G Lab File ID: T2730

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 60 dec. ____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/23/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1700	U
111-44-4	bis(2-Chloroethyl)ether	1700	U
95-57-8	2-Chlorophenol	1700	U
541-73-1	1,3-Dichlorobenzene	1700	U
106-46-7	1,4-Dichlorobenzene	1700	U
100-51-6	Benzyl alcohol	1700	U
95-50-1	1,2-Dichlorobenzene	1700	U
95-48-7	2-Methylphenol	1700	U
108-60-1	bis(2-Chloroisopropyl)ether	1700	U
106-44-5	4-Methylphenol	1700	U
621-64-7	N-Nitroso-di-n-propylamine	1700	U
67-72-1	Hexachloroethane	1700	U
98-95-3	Nitrobenzene	1700	U
78-59-1	Isophorone	1700	U
88-75-5	2-Nitrophenol	1700	U
105-67-9	2,4-Dimethylphenol	1700	U
65-85-0	Benzoic Acid	8400	U
111-91-1	bis(2-Chloroethoxy)methane	1700	U
120-83-2	2,4-Dichlorophenol	1700	U
120-82-1	1,2,4-Trichlorobenzene	1700	U
91-20-3	Naphthalene	1700	U
106-47-8	4-Chloroaniline	1700	U
87-68-3	Hexachlorobutadiene	1700	U
59-50-7	4-Chloro-3-methylphenol	1700	U
91-57-6	2-Methylnaphthalene	1700	U
77-47-4	Hexachlorocyclopentadiene	1700	U
88-06-2	2,4,6-Trichlorophenol	1700	U
95-95-4	2,4,5-Trichlorophenol	8400	U
91-58-7	2-Chloronaphthalene	1700	U
88-74-4	2-Nitroaniline	8400	U
131-11-3	Dimethylphthalate	1700	U
208-96-8	Acenaphthylene	1700	U
606-20-2	2,6-Dinitrotoluene	1700	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

13 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4 CDM

Matrix: (soil/water) SOIL Lab Sample ID: 16915

Sample wt/vol: 30.2 (g/mL) G Lab File ID: T2730

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 60 dec. ____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/23/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	8400	U
83-32-9	Acenaphthene	1700	U
51-28-5	2,4-Dinitrophenol	8400	U
100-02-7	4-Nitrophenol	8400	U
132-64-9	Dibenzofuran	1700	U
121-14-2	2,4-Dinitrotoluene	1700	U
84-66-2	Diethylphthalate	1700	U
7005-72-3	4-Chlorophenyl-phenylether	1700	U
86-73-7	Fluorene	1700	U
100-01-6	4-Nitroaniline	8400	U
534-52-1	4,6-Dinitro-2-methylphenol	8400	U
86-30-6	N-nitrosodiphenylamine (1)	1700	U
101-55-3	4-Bromophenyl-phenylether	1700	U
118-74-1	Hexachlorobenzene	1700	U
87-86-5	Pentachlorophenol	8400	U
85-01-8	Phenanthrene	1700	U
120-12-7	Anthracene	1700	U
84-74-2	Di-n-butylphthalate	1700	U
206-44-0	Fluoranthene	1700	U
129-00-0	Pyrene	1700	U
85-68-7	Butylbenzylphthalate	1700	U
91-94-1	3,3'-Dichlorobenzidine	3500	U
56-55-3	Benzo(a)anthracene	1700	U
218-01-9	Chrysene	1700	U
117-81-7	bis(2-Ethylhexyl)phthalate	1700	U
117-84-0	Di-n-octyl phthalate	1700	U
205-99-2	Benzo(b)fluoranthene	1700	U
207-08-9	Benzo(k)fluoranthene	1700	U
50-32-8	Benzo(a)pyrene	1700	U
193-39-5	Indeno(1,2,3-cd)pyrene	1700	U
53-70-3	Dibenz(a,h)anthracene	1700	U
191-24-2	Benzo(g,h,i)perylene	1700	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

13 ORIGINAL (Dup)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4 CDM

Matrix: (soil/water) SOIL Lab Sample ID: 16915

Sample wt/vol: 30.2 (g/mL) G Lab File ID: T2730

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 60 dec. ____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/23/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

Number TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN HYDROCARBON	4.07	700	BJ
2.	UNKNOWN	4.93	7000	BJ
3.	UNKNOWN HYDROCARBON	5.12	1200	BJ
4.	UNKNOWN	5.27	4200	BJ
5.	UNKNOWN HYDROCARBON	5.42	2600	BJ
6.	UNKNOWN	5.88	870	J
7. 930-68-7	2-CYCLOHEXEN-1-ONE	6.88	520	J
8.	UNKNOWN KETONE	7.25	17000	BJ
9.	UNKNOWN	8.12	5700	J
10.	UNKNOWN	8.47	16000	J
11.	UNKNOWN	8.64	1000	J
12.	UNKNOWN	9.39	9900	J
13.	UNKNOWN	11.15	700	J
14.	UNKNOWN	21.57	2600	J
15.	UNKNOWN	25.84	700	J
16.	UNKNOWN	33.51	490000	BJ
17.	UNKNOWN HYDROCARBON	34.59	210000	J
18.	UNK. POLYCYCLIC AROMATIC	38.11	170000	J
19.	UNKNOWN	39.72	190000	J

ORIGINAL (Red)

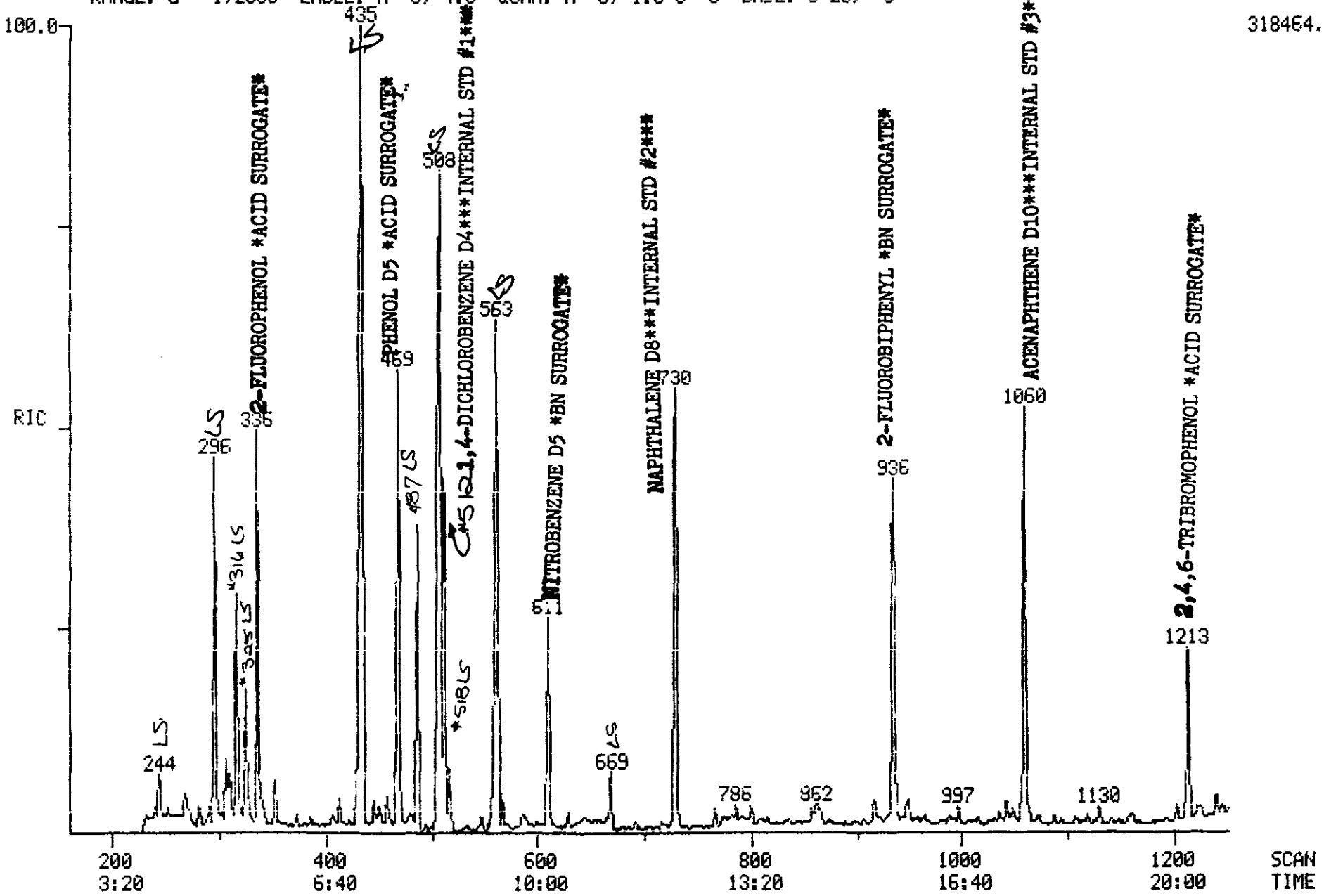
100421

RIC
05/23/90 16:52:00
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2730 #1
CALI: T2730 #2

SCANS 160 TO 1250

318464.



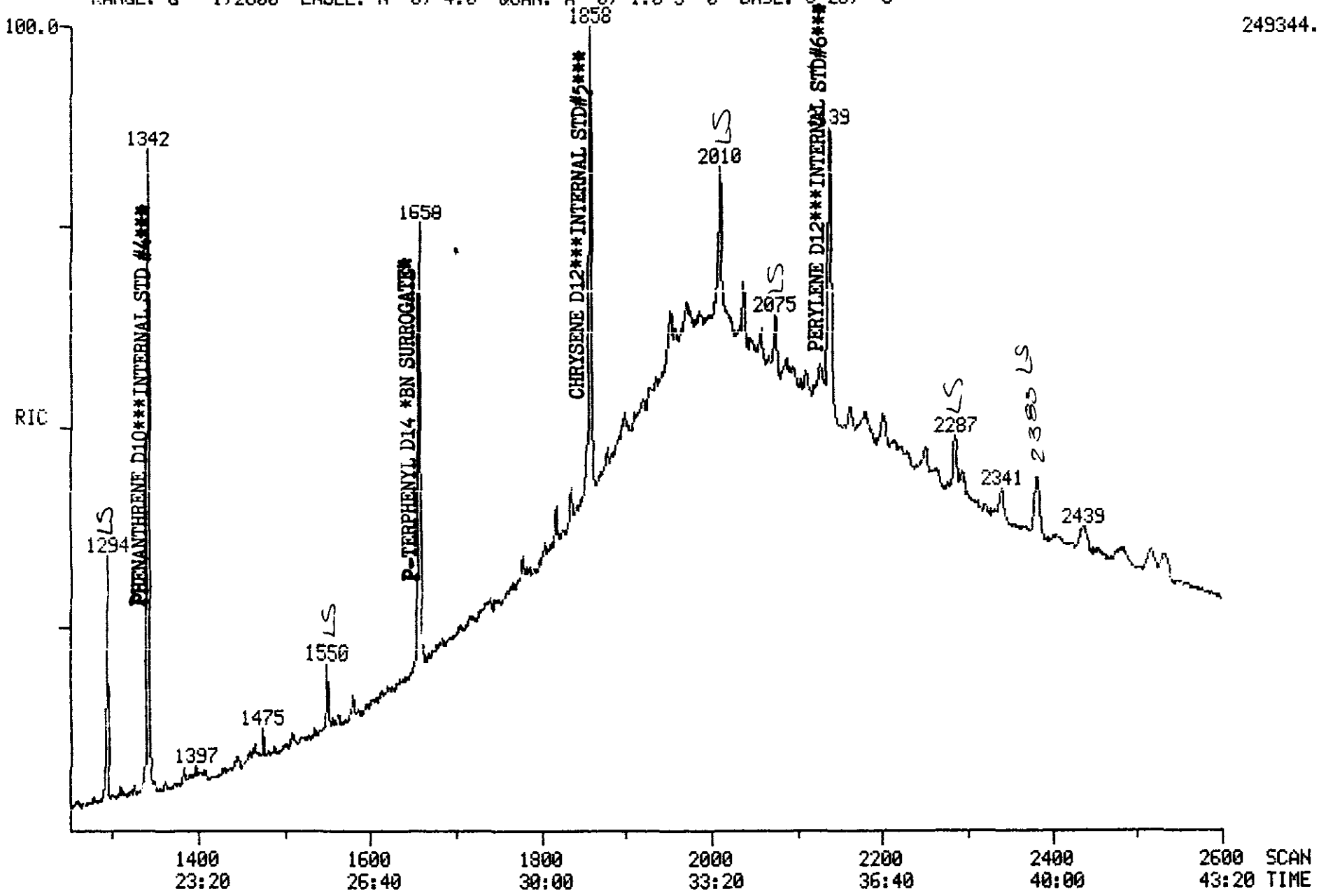
ORIGINAL (Red)

RIC
05/23/90 16:52:00
SAMPLE: CLP,VERSCOM,2565,13,L,5,16915,B,,420,1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2730 #1
CALI: T2730 #2

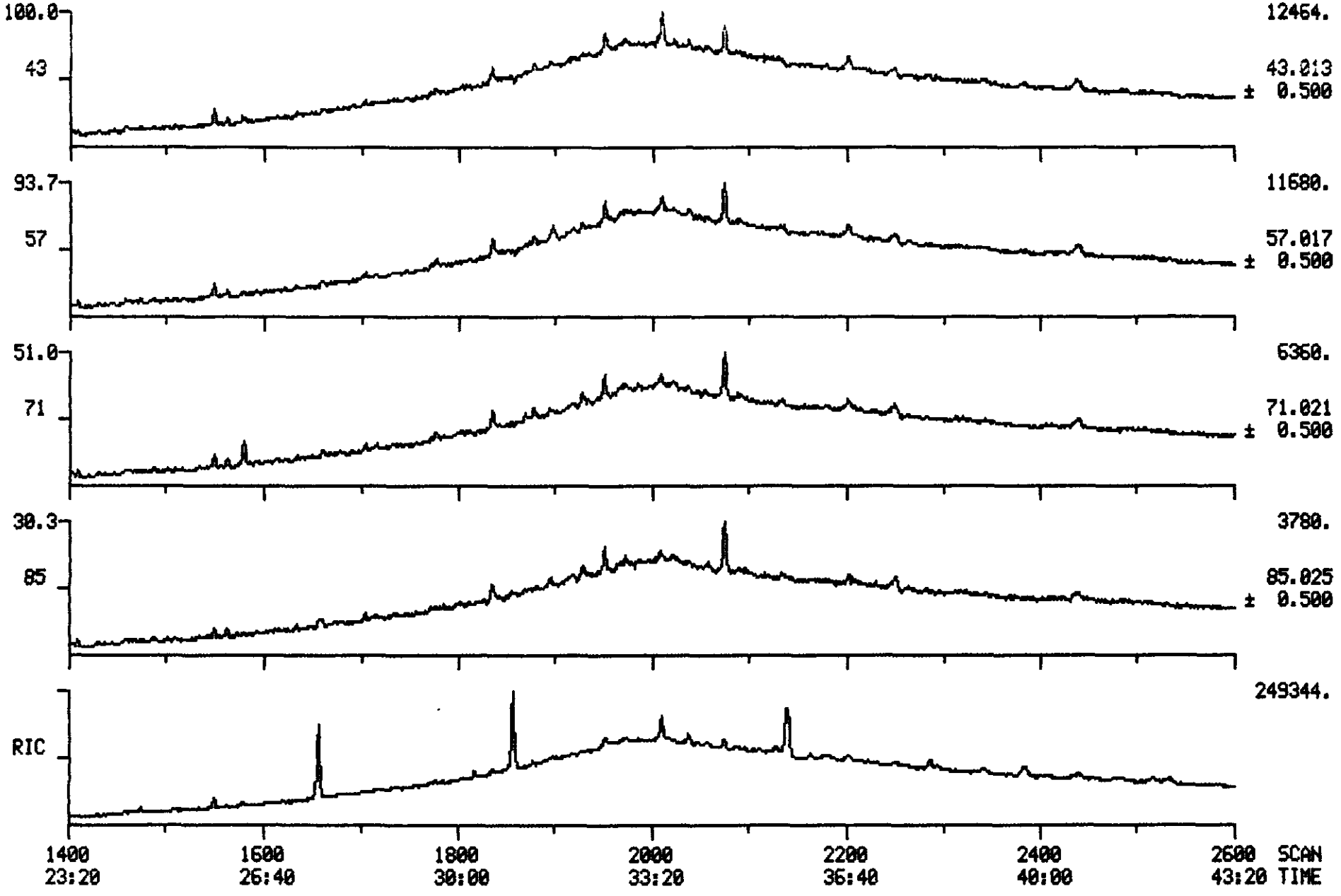
SCANS 1250 TO 2600

100422



ORIGINAL (Red)

RIC+MASS CHROMATOGRAMS DATA: T2730 #1 SCANS 1400 TO 2600
05/23/90 16:52:00 CALI: T2730 #2
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



100423

Quantitation Report File: T2730

ORIGINAL (Red)

Data: T2730.TI
05/23/90 16:52:00
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

All IS areas & Surrogate recoveries are Compliant. SJD 5/24/90

No MSD's
19 LIST SPIKES
7 of 19 in Blank

100424

T2730

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	512	8:32	1	1.000	A BB	47416.	40.000 NG/UL	8.25
2	128	487	8:07	1	0.951	A BB	965.	BRL ~~0.643 NG~~	0.13
3	94	470	7:50	1	0.918	A BB	535.	~~0.245 NG~~	0.05
4	NOT FOUND								
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	70	590	9:50	1	1.152	A VB	355.	BRL ~~0.226 NG~~	0.05
14	112	336	5:36	1	0.656	A BB	80673.	51.672 NG*A1	10.66
15	99	469	7:49	1	0.916	A BB	126655.	60.489 NG*A2	12.48
16	136	729	12:09	16	1.000	A BB	142730.	40.000 NG/UL	8.25
17	77	611	10:11	16	0.838	A BB	234.	BRL ~~0.106 NG~~	0.02
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	122	692	11:32	16	0.949	A BB	1209.	BRL ~~1.869 NG~~	0.39
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	82	611	10:11	16	0.838	A BB	64404.	29.808 NG*B1	6.15
31	164	1060	17:40	31	1.000	A BB	96936.	40.000 NG/UL	8.25
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	163	1025	17:05	31	0.967	A BB	182.	BRL ~~0.055 NG~~	0.01
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	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

T2730 ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:32	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:05	1.00	0.947	1.00	0.64	50.00	0.016	1.267	0.01
3	7:50	1.00	0.918	1.00	0.25	50.00	0.009	1.842	0.00
4	8:02		0.941						
5	8:26		0.988						
6	8:35		1.006						
7	9:04		1.062						
8	9:01		1.057						
9	9:27		1.107						
10	9:23		1.100						
11	9:53		1.158						
12	9:48		1.148						
13	9:52	1.00	1.156	1.00	0.23	50.00	0.006	1.326	0.00
14	5:35	1.00	0.654	1.00	51.67	50.00	1.361	1.317	1.03
15	7:48	1.00	0.914	1.00	60.49	50.00	2.137	1.766	1.21
16	12:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:14	1.00	0.842	1.00	0.11	50.00	0.001	0.617	0.00
18	10:53		0.896						
19	11:08		0.916						
20	11:19		0.931						
21	11:38		0.957						
22	11:48		0.971						
23	12:03		0.992						
24	12:13		1.005						
25	11:42	0.99	0.963	0.99	1.87	50.00	0.007	0.181	0.04
26	12:32		1.032						
27	12:46		1.051						
28	14:03		1.156						
29	14:19		1.178						
30	10:11	1.00	0.838	1.00	29.81	50.00	0.361	0.606	0.60
31	17:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:01		0.851						
33	15:20		0.869						
34	15:26		0.874						
35	15:50		0.897						
36	16:23		0.928						
37	17:10		0.973						
38	17:06	1.00	0.969	1.00	0.05	50.00	0.002	1.376	0.00
39	17:20		0.982						
40	17:46		1.007						
41	17:43		1.004						
42	18:01		1.021						
43	18:16		1.035						
44	18:18		1.037						
45	18:32		1.050						
46	19:22		1.097						
47	19:26		1.101						
48	19:22		1.097						
49	19:42		1.116						
50	19:47		1.121						

Quantitation Report File: T2730

ORIGINAL (Red)

Data: T2730.TI
05/23/90 16:52:00
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: ---- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	172	936	15:36	31	0.883	A BB	98249.	30.583 NG*B2	6.31
55	188	1342	22:22	55	1.000	A BV	188130.	40.000 NG/UL	8.25
56	NOT FOUND								
57	178	1345	22:25	55	1.002	A BB	1565.	~~0.306 NG~~	0.06
58	178	1354	22:34	55	1.009	A BB	402.	BRL ~~0.080 NG~~	0.02
59	149	1475	24:35	55	1.099	A BB	11140.	~~1.721 NG~~	0.36
60	202	1577	26:17	55	1.175	A BB	2332.	~~0.445 NG~~	0.09
61	202	1620	27:00	63	0.872	A BB	1664.	~~0.383 NG~~.	0.07
62	330	1213	20:13	31	1.144	A BB	18392.	27.072 NG*A3	5.59
63	240	1858	30:58	63	1.000	A BB	147660.	40.000 NG/UL	8.25
64	149	1764	29:24	63	0.949	A BB	446.	~~0.176 NG~~	0.04
65	228	1854	30:54	63	0.998	A BV	1406.	BRL ~~0.379 NG~~	0.08
66	228	1862	31:02	63	1.002	A VB	1179.	~~0.437 NG~~	0.09

100427

T2730

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT FOUND								
68	149	1878	31:18	63	1.011	A BB	4780.	BDL ~~1.322 NG~~	0.27
69	244	1658	27:38	63	0.892	A BB	116176.	35.084 NG*B3	7.24
70	264	2139	35:39	70	1.000	A BB	133687.	40.000 NG/UL	8.25
71	149	1985	33:05	70	0.928	A VB	1973.	~~0.329 NG~~	0.07
72	252	2052	34:12	70	0.959	A BB	2706.	0.647 NG	0.13
73	NOT FOUND								
74	252	2124	35:24	70	0.993	A BB	1258.	~~0.355 NG~~	0.07
75	276	2452	40:52	70	1.146	A BB	1038.	~~0.342 NG~~	0.07
76	NOT FOUND								
77	NOT FOUND								

BDL

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	19:52		1.126						
52	20:58		1.188						
53	21:21		1.210						
54	15:36	1.00	0.804	1.00	30.58	50.00	0.811	1.326	0.61
55	22:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	21:58		0.983						
57	22:25	1.00	1.003	1.00	0.31	50.00	0.007	1.088	0.01
58	22:33	1.00	1.009	1.00	0.08	50.00	0.002	1.071	0.00
59	24:34	1.00	1.099	1.00	1.72	50.00	0.047	1.376	0.03
60	26:16	1.00	1.175	1.00	0.44	50.00	0.010	1.115	0.01
61	26:59	1.00	0.872	1.00	0.33	50.00	0.009	1.355	0.01
62	20:12	1.00	1.144	1.00	27.07	50.00	0.152	0.280	0.54
63	30:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:23	1.00	0.950	1.00	0.18	50.00	0.002	0.686	0.00
65	30:53	1.00	0.998	1.00	0.37	50.00	0.008	1.021	0.01
66	31:01	1.00	1.003	1.00	0.44	50.00	0.006	0.732	0.01
67	30:56		1.000						
68	31:16	1.00	1.011	1.00	1.32	50.00	0.026	0.979	0.03
69	27:36	1.00	0.892	1.00	35.08	50.00	0.629	0.897	0.70
70	35:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:02	1.00	0.928	1.00	0.33	50.00	0.012	1.795	0.01
72	34:10	1.00	0.960	1.00	0.65	50.00	0.016	1.251	0.01
73	34:15		0.963						
74	35:21	1.00	0.993	1.00	0.36	50.00	0.008	1.060	0.01
75	40:48	1.00	1.147	1.00	0.34	50.00	0.006	0.907	0.01
76	40:58		1.151						
77	42:25		1.192						

Quantitation Report File: QCREF

ORIGINAL (Red)

Data: T2730.TI
05/23/90 16:52:00
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI40 NAPHTHALENE-D8**INT. STD.#2**
3	CI50 ACENAPHTHENE-D10**INT. STD.#3**
4	CI60 PHENANTHRENE-D10**INT. STD.#4**
5	CI70 CHRYSENE-D12**INT. STD.#5**
6	CI75 PERYLENE-D12**INT. STD.#6**
7	CS50 2-FLUOROPHENOL**ACID SURR.**
8	CS45 PHENOL-D5**ACID SURR.**
9	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
10	CS20 NITROBENZENE-D5**BN SURR.**
11	CS25 2-FLUOROBIPHENYL**BN SURR.**
12	CS30 P-TERPHENYL-D14**BN SURR.**

x 1.053

Scan	Time	Area(Hght)		Amount		Name
512	8:32	47416.		40.000	NG/UL	CI30 1,4-DICHLOROBENZENE-D4
729	12:09	142730.	90	40.000	NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1060	17:40	96936.		40.000	NG/UL	CI50 ACENAPHTHENE-D10**INT.
1342	22:22	188130.	Rec	40.000	NG/UL	CI60 PHENANTHRENE-D10**INT.
1858	30:58	147660.		40.000	NG/UL	CI70 CHRYSENE-D12**INT. STD.
2139	35:39	133687.		40.000	NG/UL	CI75 PERYLENE-D12**INT. STD.
336	5:36	80673.	54	51.672	NG*A1	CS50 2-FLUOROPHENOL**ACID SU
469	7:49	126655.	64	60.489	NG*A2	CS45 PHENOL-D5**ACID SURR.**
1213	20:13	18392.	29	27.072	NG*A3	CS55 2,4,6,-TRIBROMOPHENOL**
611	10:11	64404.	63	29.808	NG*B1	CS20 NITROBENZENE-D5**BN SUR
936	15:36	98249.	64	30.583	NG*B2	CS25 2-FLUOROBIPHENYL**BN SU
1658	27:38	116176.	74	35.084	NG*B3	CS30 P-TERPHENYL-D14**BN SUR

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:32	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	17:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	30:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	35:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	5:35	1.00	0.654	1.00	51.67	50.00	1.361	1.317	1.03
8	7:48	1.00	0.914	1.00	60.49	50.00	2.137	1.766	1.21
9	20:12	1.00	1.144	1.00	27.07	50.00	0.152	0.280	0.54
10	10:11	1.00	0.838	1.00	29.81	50.00	0.361	0.606	0.60
11	15:36	1.00	0.884	1.00	30.58	50.00	0.811	1.326	0.61
12	27:36	1.00	0.892	1.00	35.08	50.00	0.629	0.897	0.70

ORIGINAL (Red)

Quantitation Report File: ISREF

Data: T2726.TI
05/23/90 12:04:00
Sample: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: -

Data: T2730.TI
05/23/90 16:52:00
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
3	CI40 NAPHTHALENE-D8**INT. STD.#2**
4	CI40 NAPHTHALENE-D8**INT. STD.#2**
5	CI50 ACENAPHTHENE-D10**INT. STD.#3**
6	CI50 ACENAPHTHENE-D10**INT. STD.#3**
7	CI60 PHENANTHRENE-D10**INT. STD.#4**
8	CI60 PHENANTHRENE-D10**INT. STD.#4**
9	CI70 CHRYSENE-D12**INT. STD.#5**
10	CI70 CHRYSENE-D12**INT. STD.#5**
11	CI75 PERYLENE-D12**INT. STD.#6**
12	CI75 PERYLENE-D12**INT. STD.#6**

Scan	Time	Area(Hght)	Amount		Name
512	8:32	32730.	40.000	NG/UL	CI30 1,4-DICHLOROBENZENE-D4
512	8:32	47416.	57.948	NG/UL	CI30 1,4-DICHLOROBENZENE-D4
729	12:09	101194.	40.000	NG/UL	CI40 NAPHTHALENE-D8**INT. ST
729	12:09	142730.	56.418	NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1059	17:39	68217.	40.000	NG/UL	CI50 ACENAPHTHENE-D10**INT.
1060	17:40	96936.	56.840	NG/UL	CI50 ACENAPHTHENE-D10**INT.
1341	22:21	135436.	40.000	NG/UL	CI60 PHENANTHRENE-D10**INT.
1342	22:22	188130.	55.563	NG/UL	CI60 PHENANTHRENE-D10**INT.
1856	30:56	112578.	40.000	NG/UL	CI70 CHRYSENE-D12**INT. STD.
1858	30:58	147660.	52.465	NG/UL	CI70 CHRYSENE-D12**INT. STD.
2135	35:35	97334.	40.000	NG/UL	CI75 PERYLENE-D12**INT. STD.
2139	35:39	133687.	54.940	NG/UL	CI75 PERYLENE-D12**INT. STD.

ORIGINAL (Red)

Library Search Data: T2730 # 244 Base m/z: 55
05/23/90 16:52:00 + 4:04 Cali: T2730 # 2 RIC: 12751.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
204 matched at least 7 of the 16 largest peaks in the unknown

hyd

~~sub 2-pentene~~

B

Rank	In.	Name
1	1171	2-PENTENE, 3,4-DIMETHYL-, (E)-
2	1170	2-PENTENE, 3,4-DIMETHYL-, (Z)-
3	1177	2-PENTENE, 2,3-DIMETHYL-
4	1148	2-PENTENE, 4,4-DIMETHYL-, (Z)-
5	1145	2-PENTENE, 4,4-DIMETHYL-, (E)-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C7.H14	98	55	905	973	905
2	C7.H14	98	55	903	971	903
3	C7.H14	98	83	878	956	889
4	C7.H14	98	83	868	949	876
5	C7.H14	98	55	864	945	872

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	4914-92-5
2	—	—	—	—	4914-91-4
3	—	—	—	—	10574-37-5
4	—	—	—	—	762-63-0
5	—	—	—	—	690-08-4

✓

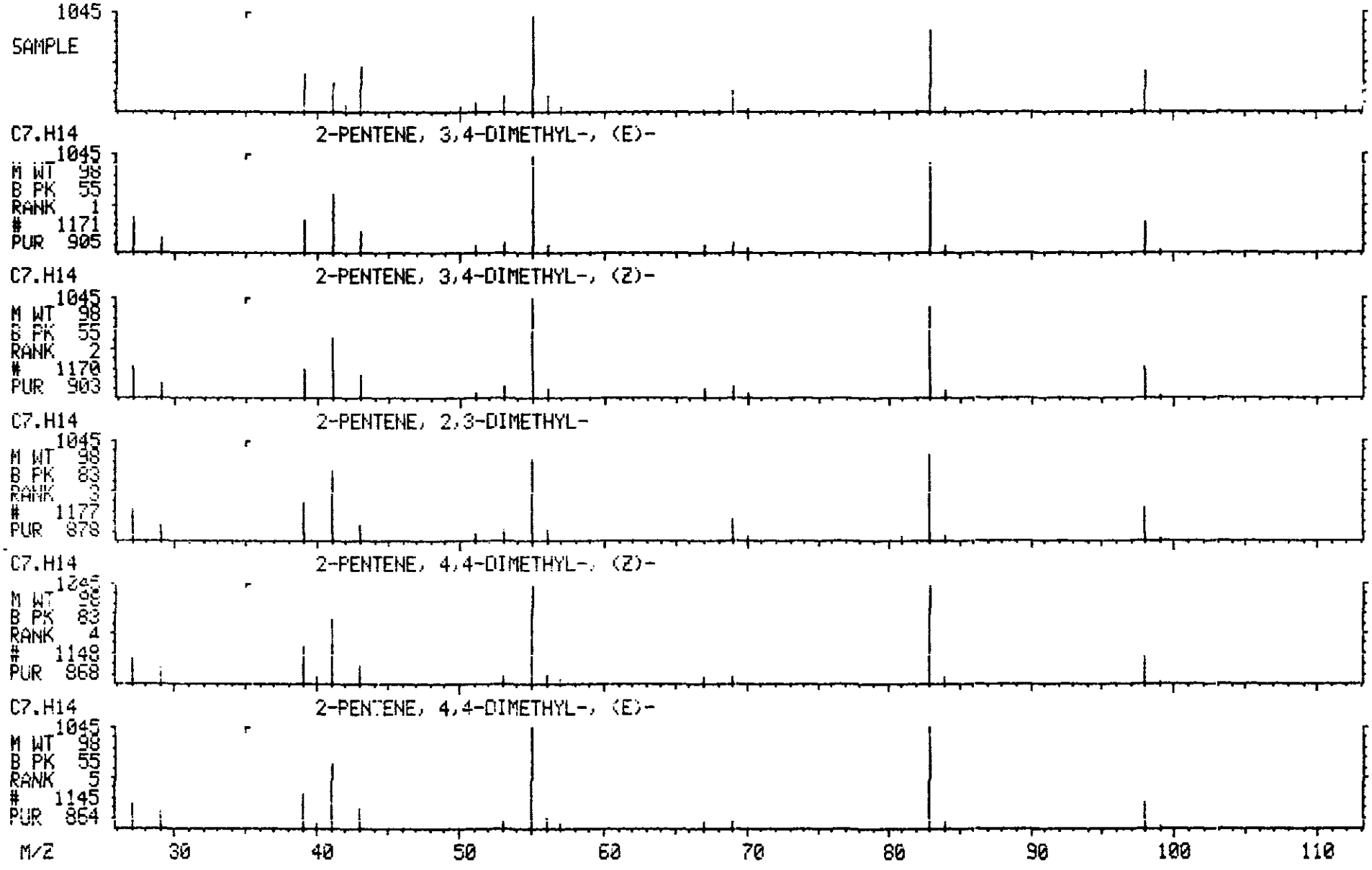
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 16:52:00 + 4:04
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 244
CALI: T2730 # 2

BASE M/Z: 55
RIC: 12751.

100432



Library Search Data: T2730 # 296 Base m/z: 43
05/23/90 16:52:00 + 4:56 Cali: T2730 # 2 RIC: 117887
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
119 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	2776	2-PENTANOL, 2,4-DIMETHYL-
2	806	HYDROPEROXIDE, 1,1-DIMETHYLETHYL
3	2777	2-HEXANOL, 2-METHYL-
4	9176	2-HEXANONE, 6-(ACETYLOXY)-
5	2696	1,3-DIOXOLANE, 2,2,4-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H16.O	116	59	755	789	755
2	C4.H10.O2	90	59	716	881	727
3	C7.H16.O	116	59	692	745	704
4	C8.H14.O3	158	43	660	689	694
5	C6.H12.O2	116	43	660	720	806

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	625-06-9
2	—	—	—	—	75-91-2
3	—	—	—	—	625-23-0
4	—	—	—	—	4305-26-4
5	—	—	—	—	1193-11-9

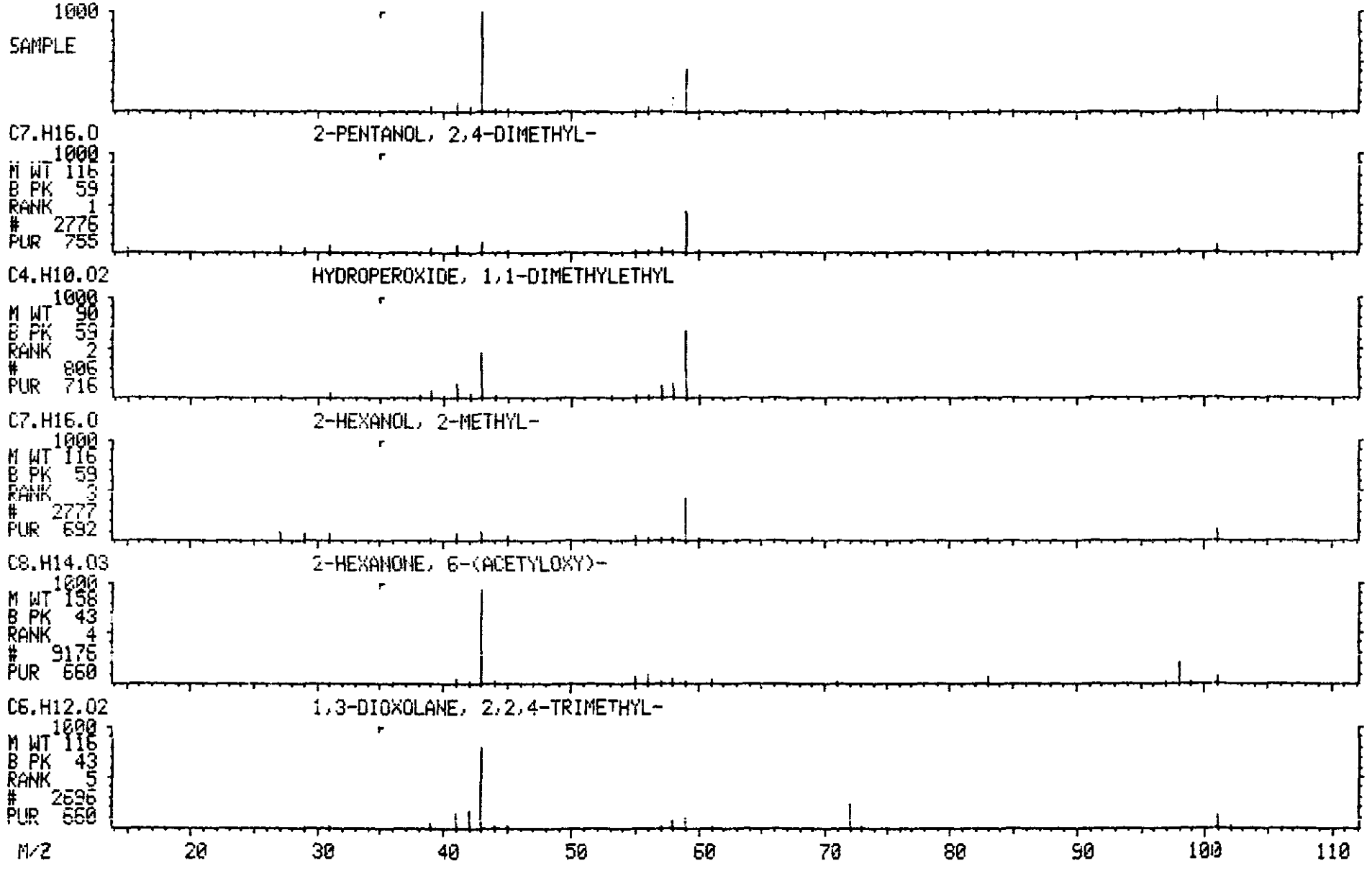
ORIGINAL (Red)

100434

LIBRARY SEARCH
05/23/90 16:52:00 + 4:56
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 296
CALI: T2730 # 2

BASE M/Z: 43
RIC: 117887.



Library Search Data: T2730 # 307 Base m/z: 43
05/23/90 16:52:00 + 5:07 Cali: T2730 # 2 RIC: 19423.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
257 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	4135	HEPTANE, 2,3-DIMETHYL-
2	4152	HEXANE, 3-ETHYL-2-METHYL-
3	4125	HEXANE, 2,3,5-TRIMETHYL-
4	4124	PENTANE, 3-ETHYL-2,4-DIMETHYL-
5	4146	HEXANE, 2,3,3-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H20	128	43	941	976	960
2	C9.H20	128	43	931	954	951
3	C9.H20	128	43	928	961	945
4	C9.H20	128	43	912	936	919
5	C9.H20	128	43	900	923	911

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	3074-71-3
2	—	—	—	—	16789-46-1
3	—	—	—	—	1069-53-0
4	—	—	—	—	1068-87-7
5	—	—	—	—	16747-28-7

✓

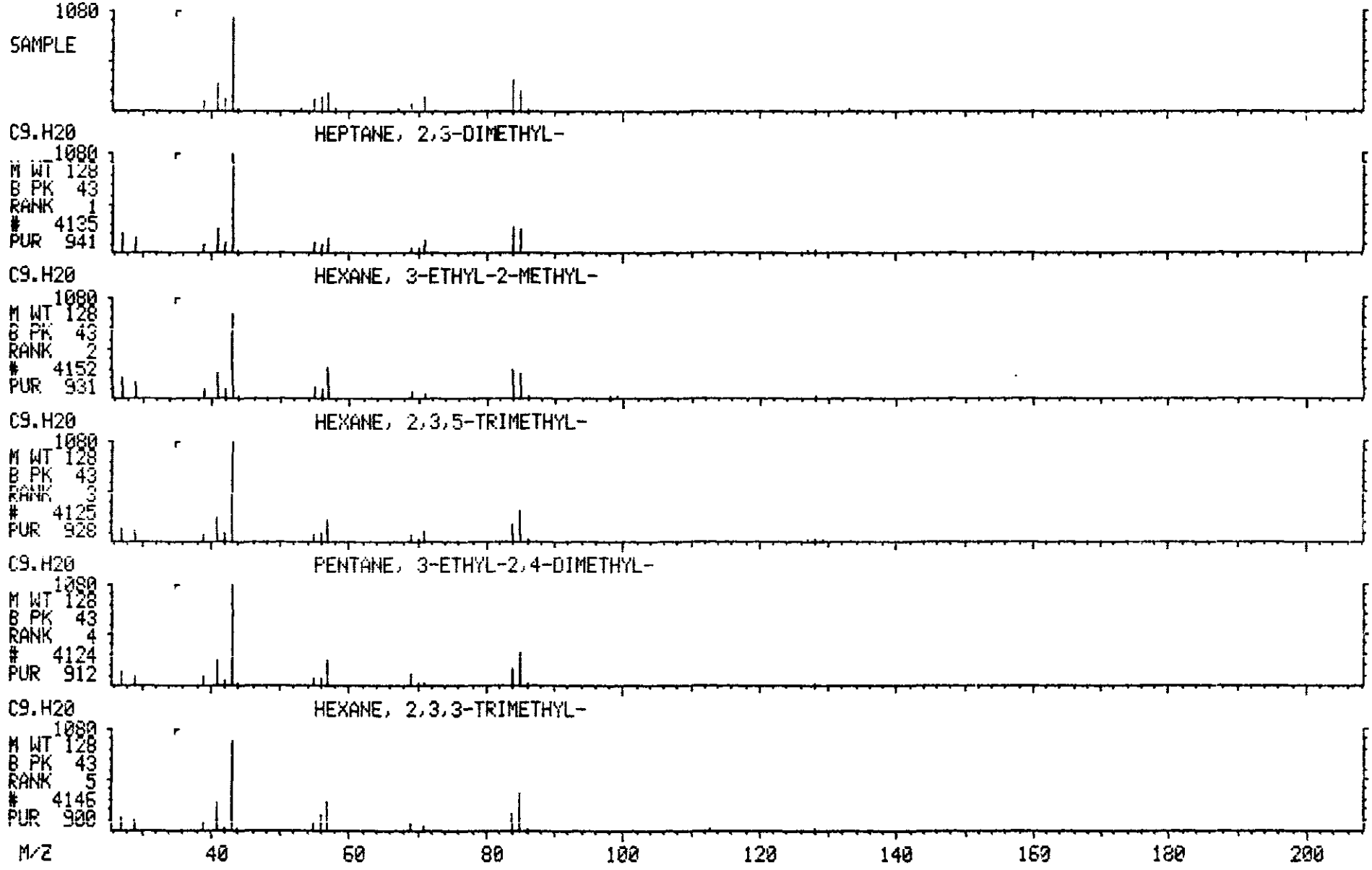
ORIGINAL (Red)

100436

LIBRARY SEARCH
05/23/90 16:52:00 + 5:07
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 307
CALI: T2730 # 2

BASE M/Z: 43
RIC: 19423.



ORIGINAL

Library Search Data: T2730 # 316 Base m/z: 43
05/23/90 16:52:00 + 5:16 Cali: T2730 # 2 RIC: 71935
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
169 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6635	1-HEPTANOL, 2,4-DIMETHYL-, (R,R)-(+)-
2	4411	1-HEPTANOL, 6-METHYL-
3	20456	ACETIC ACID, TRIFLUORO-, OCTYL ESTER
4	11940	HYDROXYLAMINE, O-DECYL-
5	14256	1-DECANOL, 2-ETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H20.O	144	43	792	910	809
2	C8.H18.O	130	41	777	894	777
3	C10.H17.O2.F3	226	41	755	891	773
4	C10.H23.O.N	173	43	754	898	787
5	C12.H26.O	186	57	751	895	773

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	18450-73-2
2	—	—	—	—	1653-40-3
3	—	—	—	—	2561-21-9
4	—	—	—	—	29812-79-1
5	—	—	—	—	21078-65-9

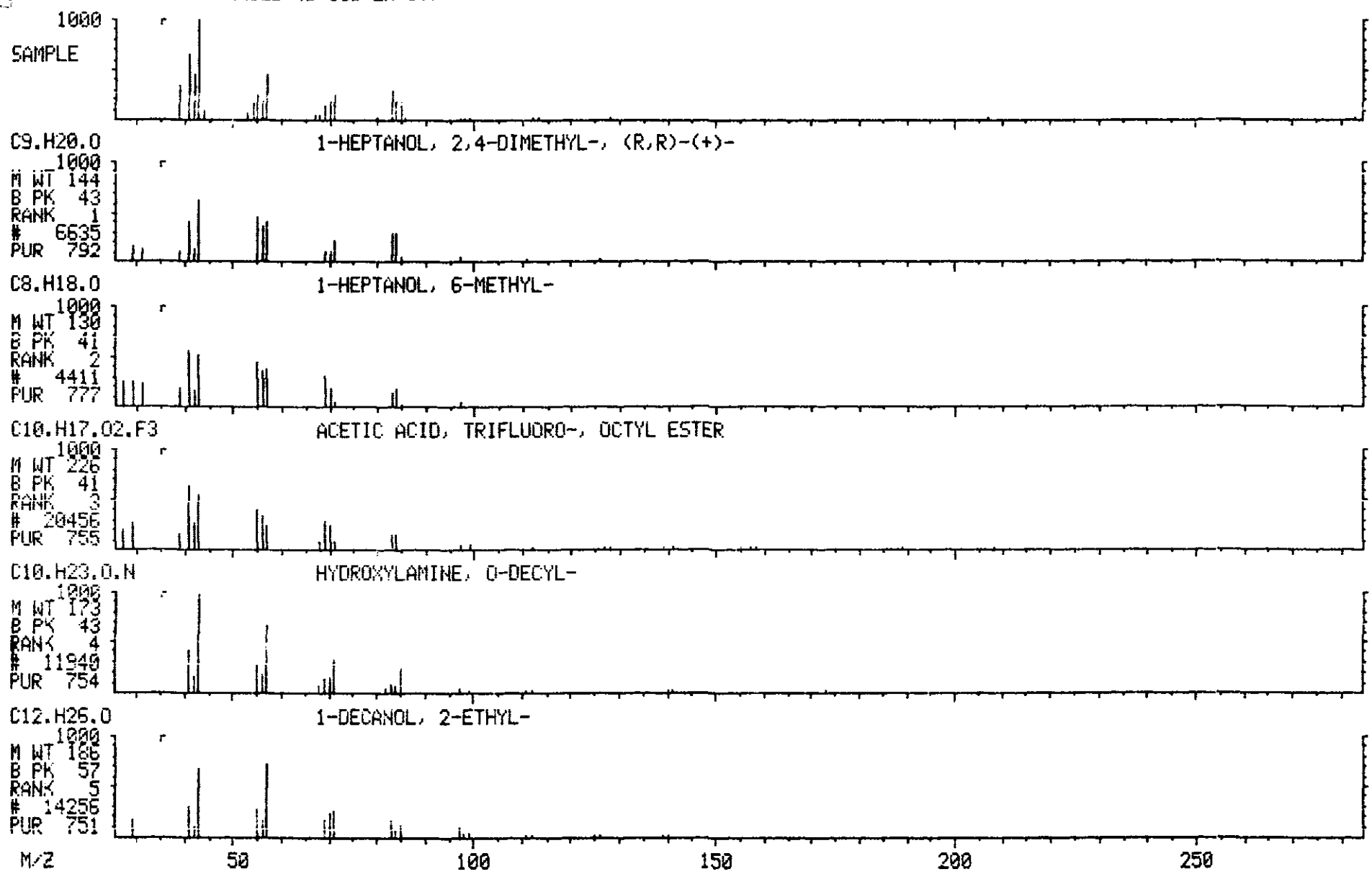
100437

LIBRARY SEARCH
05/23/90 16:52:00 + 5:16
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 316
CALI: T2730 # 2

BASE M/Z: 43
RIC: 71935.

100438



ORIGINAL

Library Search Data: T2730 # 325 Base m/z: 57
05/23/90 16:52:00 + 5:25 Cali: T2730 # 2 RIC: 43711.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
62 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6103	HEPTANE, 4-(1-METHYLETHYL)-
2	6082	HEPTANE, 2,3,6-TRIMETHYL-
3	4136	HEXANE, 4-ETHYL-2-METHYL-
4	6081	HEPTANE, 4-PROPYL-
5	6101	HEPTANE, 2,3,5-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22	142	57	925	972	929
2	C10.H22	142	57	913	960	914
3	C9.H20	128	57	911	940	911
4	C10.H22	142	57	909	953	928
5	C10.H22	142	57	908	953	909

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	52896-87-4
2	—	—	—	—	4032-93-3
3	—	—	—	—	3074-75-7
4	—	—	—	—	3178-29-8
5	—	—	—	—	20278-85-7

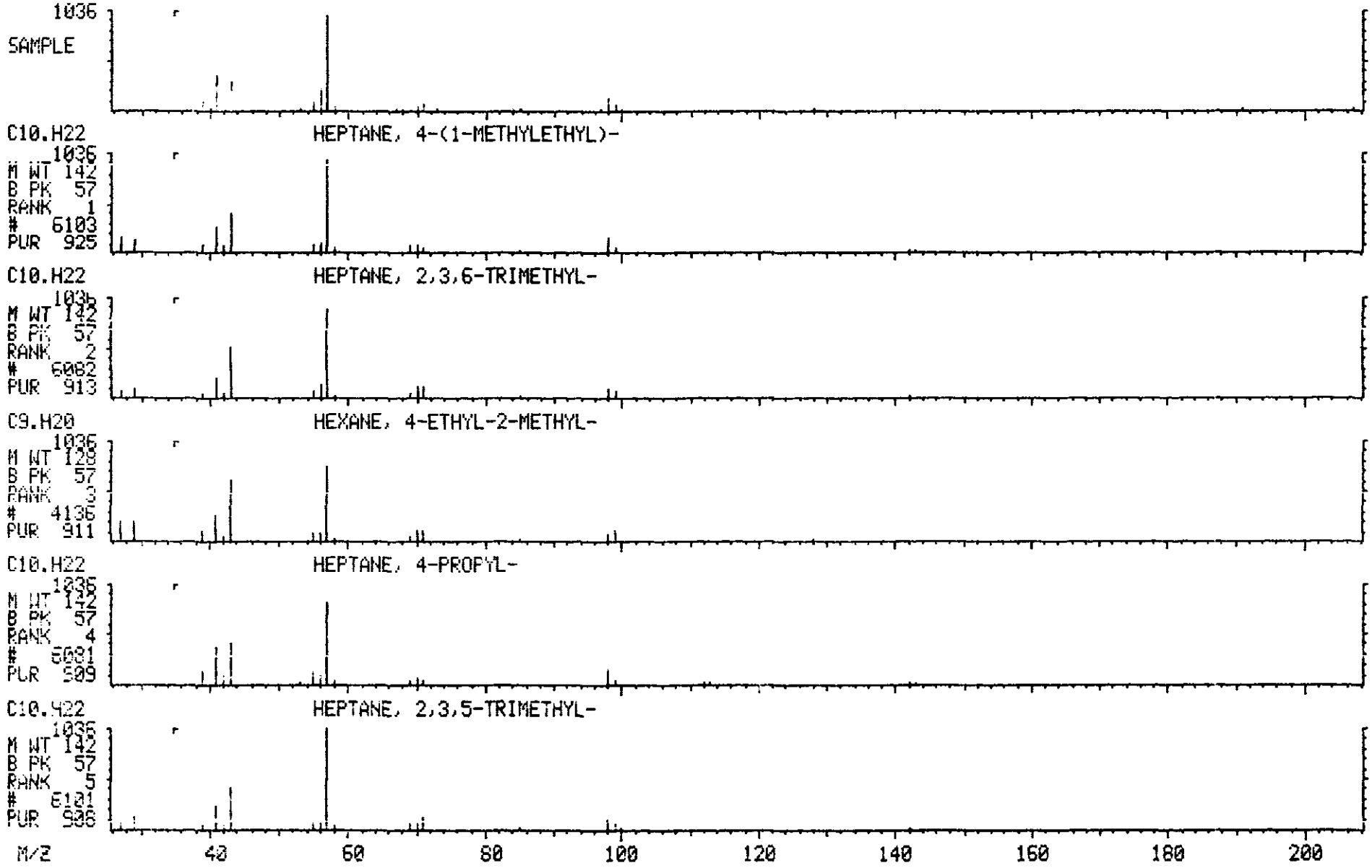
✓

LIBRARY SEARCH
05/23/90 16:52:00 + 5:25
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 325
CALI: T2730 # 2

BASE M/Z: 57
RIC: 43711.

100440



ORIGINAL (Red)

Library Search Data: T2730 # 353 Base m/z: 55
05/23/90 16:52:00 + 5:53 Cali: T2730 # 2 RIC: 13711.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
160 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1109	3-PENTENAL, 4-METHYL-
2	8201	2-DECENAL, (E)-
3	1085	2-CYCLOHEXEN-1-OL
4	3743	1-NONENE
5	2232	3-HEXENE, 2,2-DIMETHYL-, (Z)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H10.O	98	41	740	841	750
2	C10.H18.O	154	41	738	855	827
3	C6.H10.O	98	70	720	879	744
4	C9.H18	126	43	701	832	724
5	C8.H16	112	55	699	872	733

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	5362-50-5
2	—	—	—	—	3913-81-3
3	—	—	—	—	822-67-3
4	—	—	—	—	124-11-8
5	—	—	—	—	690-92-6

✓

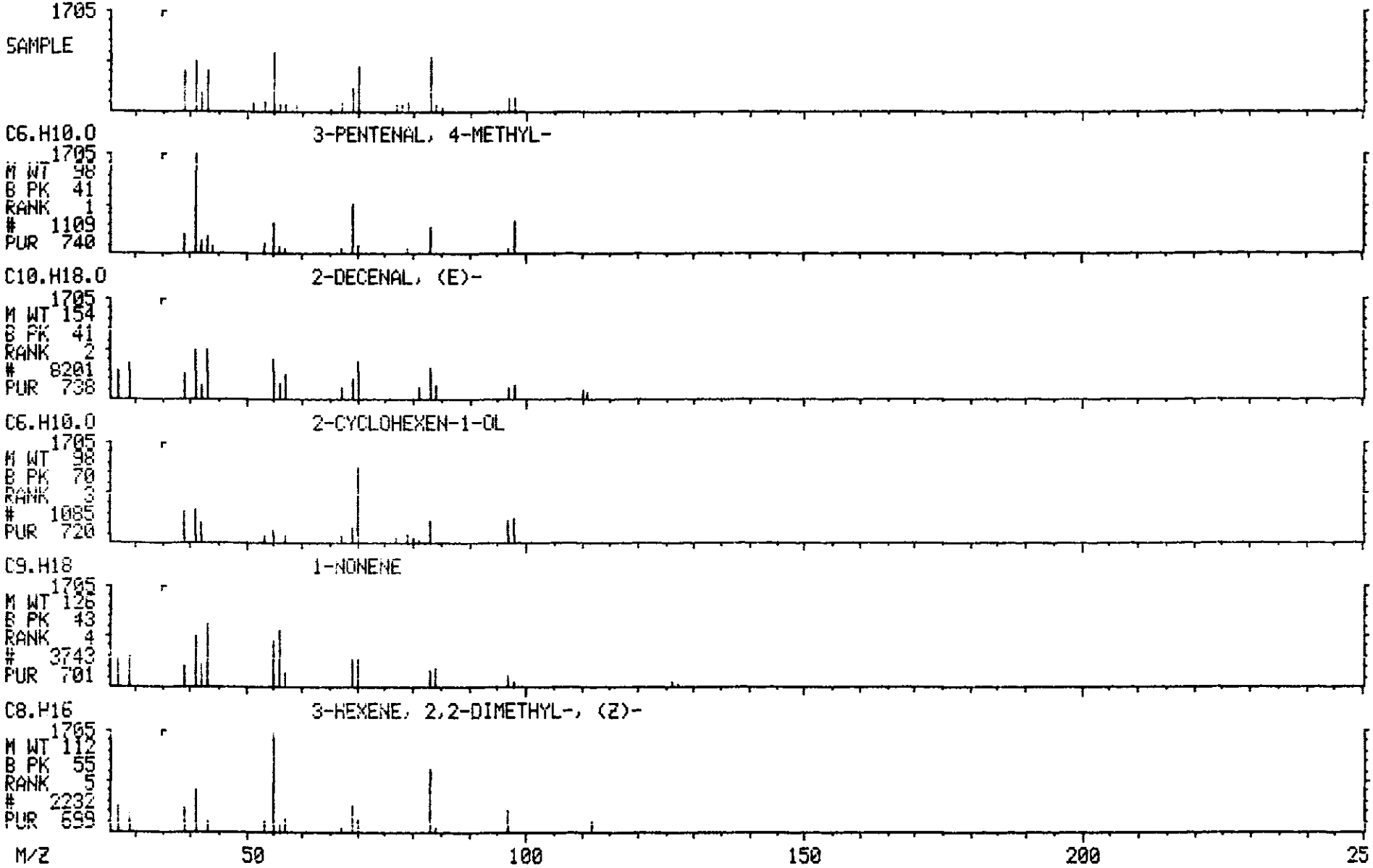
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 16:52:00 + 5:53
SAMPLE: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 353
CALI: T2730 # 2

BASE M/Z: 55
RIC: 13711.

100442



Library Search Data: T2730 # 413 Base m/z: [illegible]
05/23/90 16:52:00 + 6:53 Cali: T2730 # 2 RIC: 8238
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
214 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	952	2-CYCLOHEXEN-1-ONE
2	936	3(2H)-PYRIDAZINONE
3	941	2H-PYRAN-2-ONE
4	938	1H-IMIDAZOLE-2-CARBOXALDEHYDE
5	937	4(1H)-PYRIMIDINONE

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C6.H8.O	96	68	919	990	924
2	C4.H4.O.N2	96	68	770	880	834
3	C5.H4.O2	96	68	761	927	811
4	C4.H4.O.N2	96	68	757	881	767
5	C4.H4.O.N2	96	96	711	796	750

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	930-68-7
2	—	—	—	—	504-30-3
3	—	—	—	—	504-31-4
4	—	—	—	—	10111-08-7
5	—	—	—	—	4562-27-0

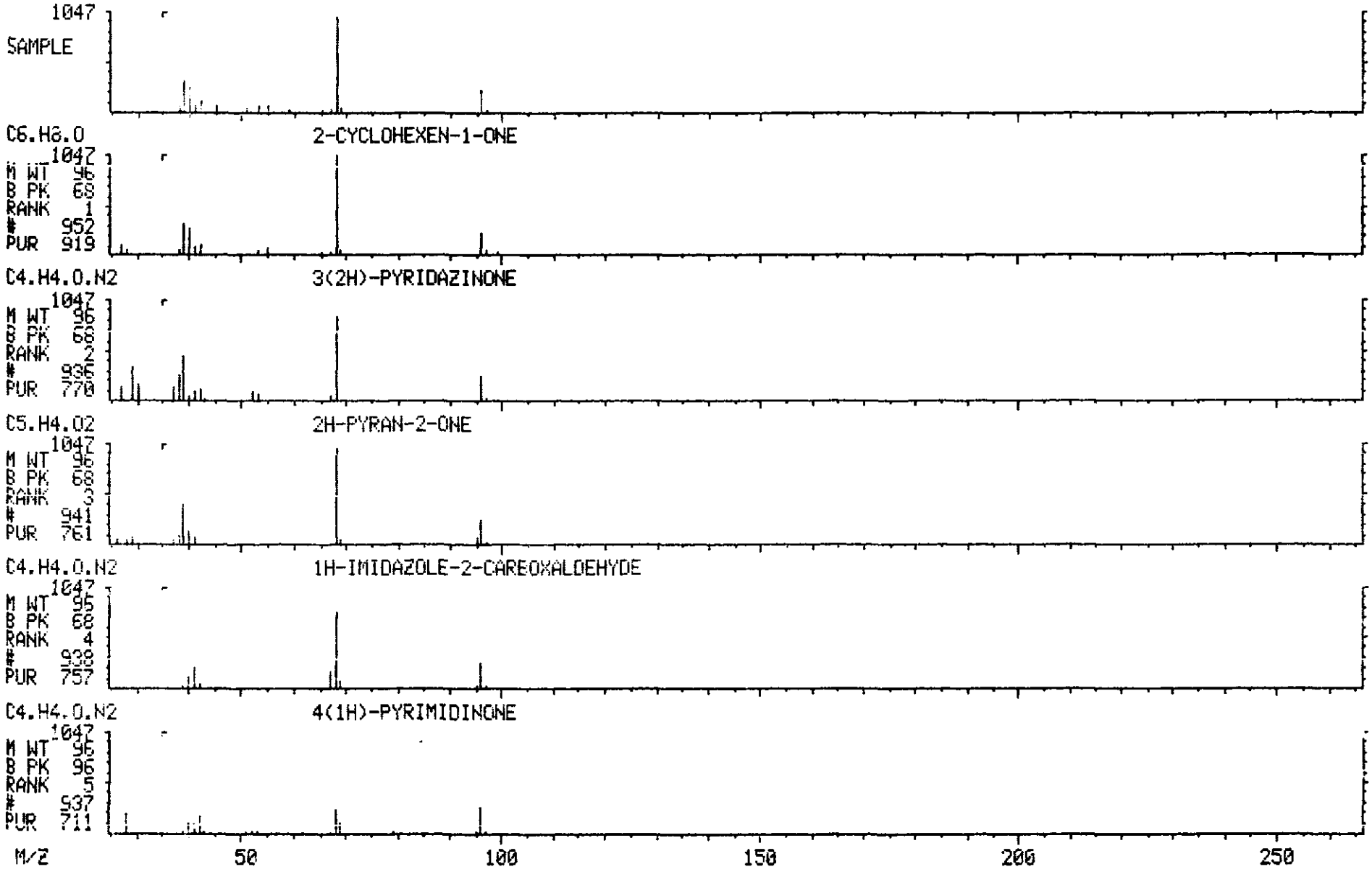
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 16:52:00 + 6:53
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 413
CALI: T2730 # 2

BASE M/Z: 68
RIC: 8239.

100444



ORIGINAL (Red)

Library Search Data: T2730 # 435 Base m/z: 43
05/23/90 16:52:00 + 7:15 Cali: T2730 # 2 RIC: 283647.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
274 matched at least 6 of the 16 largest peaks in the unknown

Ketone

Rank	In.	Name
1	2176	5-HEXEN-2-ONE, 5-METHYL-
2	2147	2(5H)-FURANONE, 5,5-DIMETHYL-
3	2183	3-HEXEN-2-ONE, 5-METHYL-
4	2187	3-HEPTEN-2-ONE, (E)-
5	2169	3-HEPTEN-2-ONE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H12.O	112	43	858	922	858
2	C6.H8.O2	112	43	846	901	906
3	C7.H12.O	112	43	777	829	777
4	C7.H12.O	112	55	697	755	709
5	C7.H12.O	112	55	694	749	709

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	3240-09-3
2	—	—	—	—	20019-64-1
3	—	—	—	—	5166-53-0
4	—	—	—	—	5609-09-6
5	—	—	—	—	1119-44-4

✓

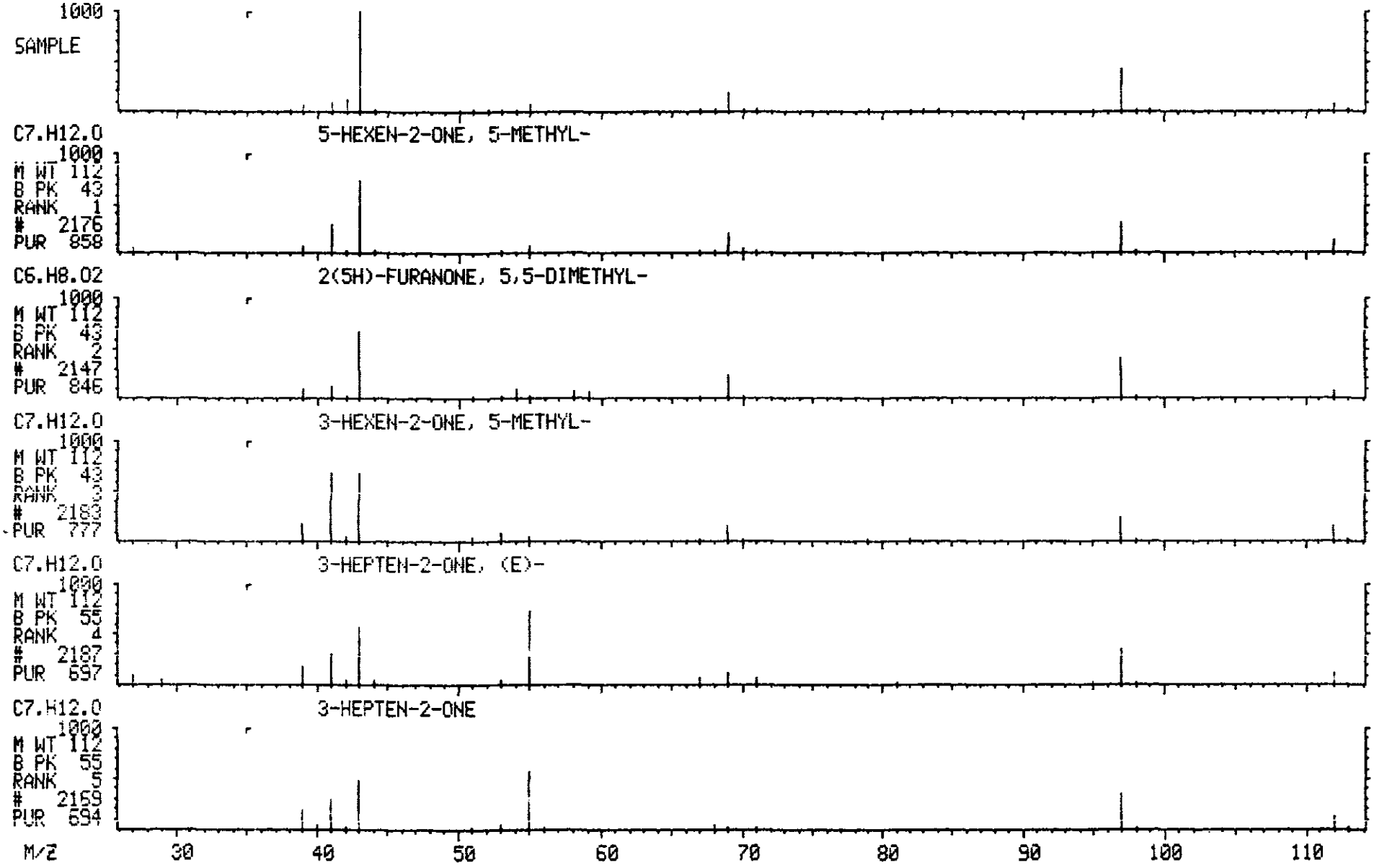
LIBRARY SEARCH
05/23/90 16:52:00 + 7:15
SAMPLE: CLP,VERSCOM,2565,13,L,5,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 435
CALI: T2730 # 2

BASE M/Z: 43
RIC: 283647.

ORIGINAL (Red)

100446



Library Search Data: T2730 # 487 Base m/z: 43
05/23/90 16:52:00 + 8:07 Cali: T2730 # 2 RIC: 98559
ORIGINAL (Red)
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
178 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6315	3-HEPTANONE, 2,4-DIMETHYL-
2	16936	2H-PYRAN-2,3-DIOL, TETRAHYDRO-, DIACETATE, TRANS-
3	16935	2H-PYRAN-2,3-DIOL, TETRAHYDRO-, DIACETATE, CIS-
4	1264	2,4-PENTANEDIONE
5	7550	PENTANE, 3-BROMO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18.O	142	43	835	928	835
2	C9.H14.O5	202	43	794	864	892
3	C9.H14.O5	202	43	777	848	895
4	C5.H8.O2	100	43	758	907	780
5	C5.H11.BR	150	43	697	842	714

Rank	Rct.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	18641-71-9
2	—	—	—	—	3021-94-1
3	—	—	—	—	2396-74-9
4	—	—	—	—	123-54-6
5	—	—	—	—	1809-10-5

✓

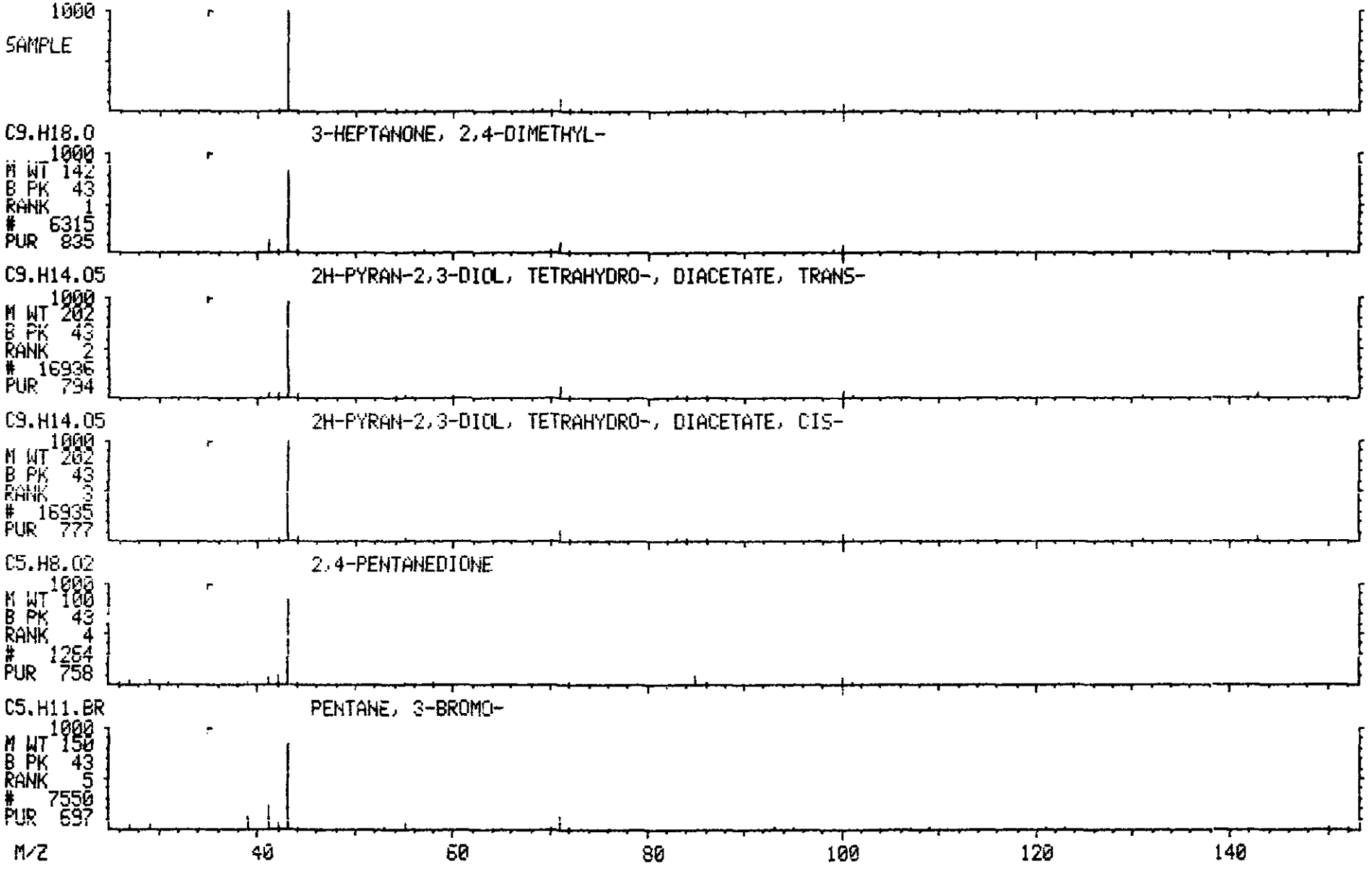
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 16:52:00 + 8:07
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 487
CALI: T2730 # 2

BASE M/Z: 43
RIC: 98559.

100448



ORIGINAL (Red)

Library Search Data: T2730 # 508 Base m/z: 43
05/23/90 16:52:00 + 8:28 Cali: T2730 # 2 RIC: 266751.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
178 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6315	3-HEPTANONE, 2,4-DIMETHYL-
2	16936	2H-PYRAN-2,3-DIOL, TETRAHYDRO-, DIACETATE, TRANS-
3	16935	2H-PYRAN-2,3-DIOL, TETRAHYDRO-, DIACETATE, CIS-
4	1264	2,4-PENTANEDIONE
5	6321	ETHER, 3-BUTENYL PENTYL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18.O	142	43	786	913	786
2	C9.H14.O5	202	43	758	853	857
3	C9.H14.O5	202	43	741	836	860
4	C5.H8.O2	100	43	699	912	699
5	C9.H18.O	142	43	680	821	690

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	18641-71-9
2	—	—	—	—	3021-94-1
3	—	—	—	—	2396-74-9
4	—	—	—	—	123-54-6
5	—	—	—	—	34061-78-4

✓

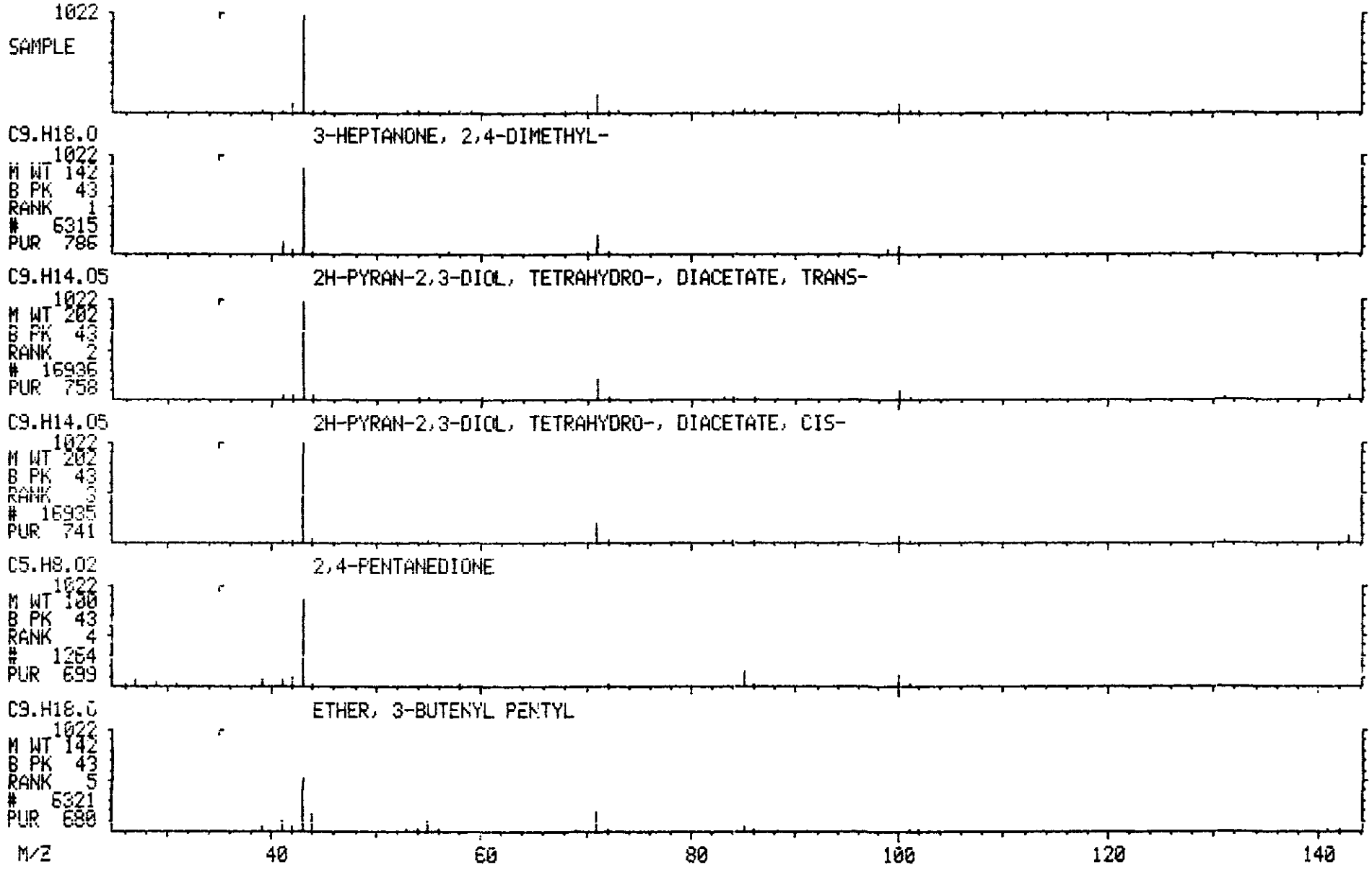
ORIGINAL (Red)

100450

LIBRARY SEARCH
05/23/90 16:52:00 + 8:28
SAMPLE: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 508
CALI: T2730 # 2

BASE M/Z: 43
RIC: 266751.



Library Search Data: T2730 # 518 Base m/z: 43 ORIGINAL
05/23/90 16:52:00 + 8:38 Cali: T2730 # 2 RIC: 18655. (Red)
Sample: CLP,VERSCDM,2565,13:L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
236 matched at least 6 of the 15 largest peaks in the unknown

Rank	In.	Name
1	613	ETHANONE, 1-OXIRANYL-
2	4088	2-HEXANONE, 3,3-DIMETHYL-
3	4427	PENTANE, 1-PROPOXY-
4	523	4-PENTEN-2-ONE
5	2385	BUTANOIC ACID, ETHENYL ESTER

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C4.H6.O2	86	43	871	891	877
2	C8.H16.O	128	43	788	797	874
3	C8.H18.O	130	43	783	857	850
4	C5.H8.O	84	43	756	872	780
5	C6.H10.O2	114	43	748	804	773

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	4401-11-0
2	—	—	—	—	26118-38-7
3	—	—	—	—	18641-82-2
4	—	—	—	—	13891-87-7
5	—	—	—	—	123-20-6

✓

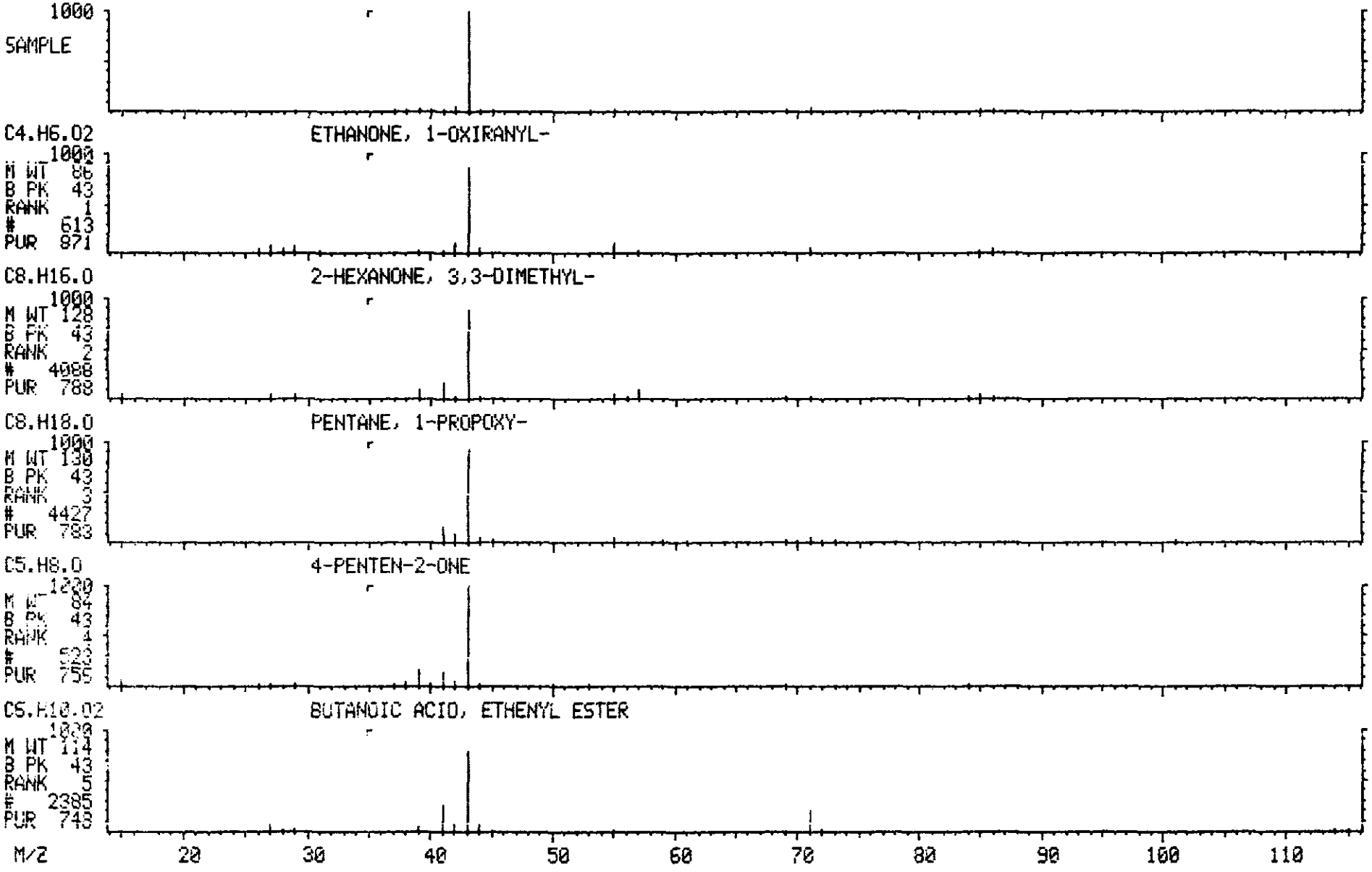
ORIGINAL (Red)

100452

LIBRARY SEARCH
05/23/90 16:52:00 + 8:38
SAMPLE: CLP,VERSCDM,2565,13,L,5,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30200C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 518
CALI: T2730 # 2

BASE M/Z: 43
RIC: 18655.



Library Search Data: T2730 # 563 Base m/z: 43 ORIGINAL
05/23/90 16:52:00 + 9:23 Cali: T2730 # 2 RIC: 169471. (Red)
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
128 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1590	1,2-ETHANEDIOL, MONOACETATE
2	613	ETHANONE, 1-OXIRANYL-
3	2875	BUTANOIC ACID, 3-HYDROXY-, METHYL ESTER
4	6936	HEXANOIC ACID, HYDROXY-, METHYL ESTER
5	6867	1,2-ETHANEDIOL, DIACETATE

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C4.H8.O3	104	43	684	952	684
2	C4.H6.O2	86	43	651	880	662
3	C5.H10.O3	118	43	604	734	683
4	C7.H14.O3	146	43	585	703	703
5	C6.H10.O4	146	43	555	772	658

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	542-59-6
2	—	—	—	—	4401-11-0
3	—	—	—	—	1487-49-6
4	—	—	—	—	59942-11-9
5	—	—	—	—	111-55-7

✓

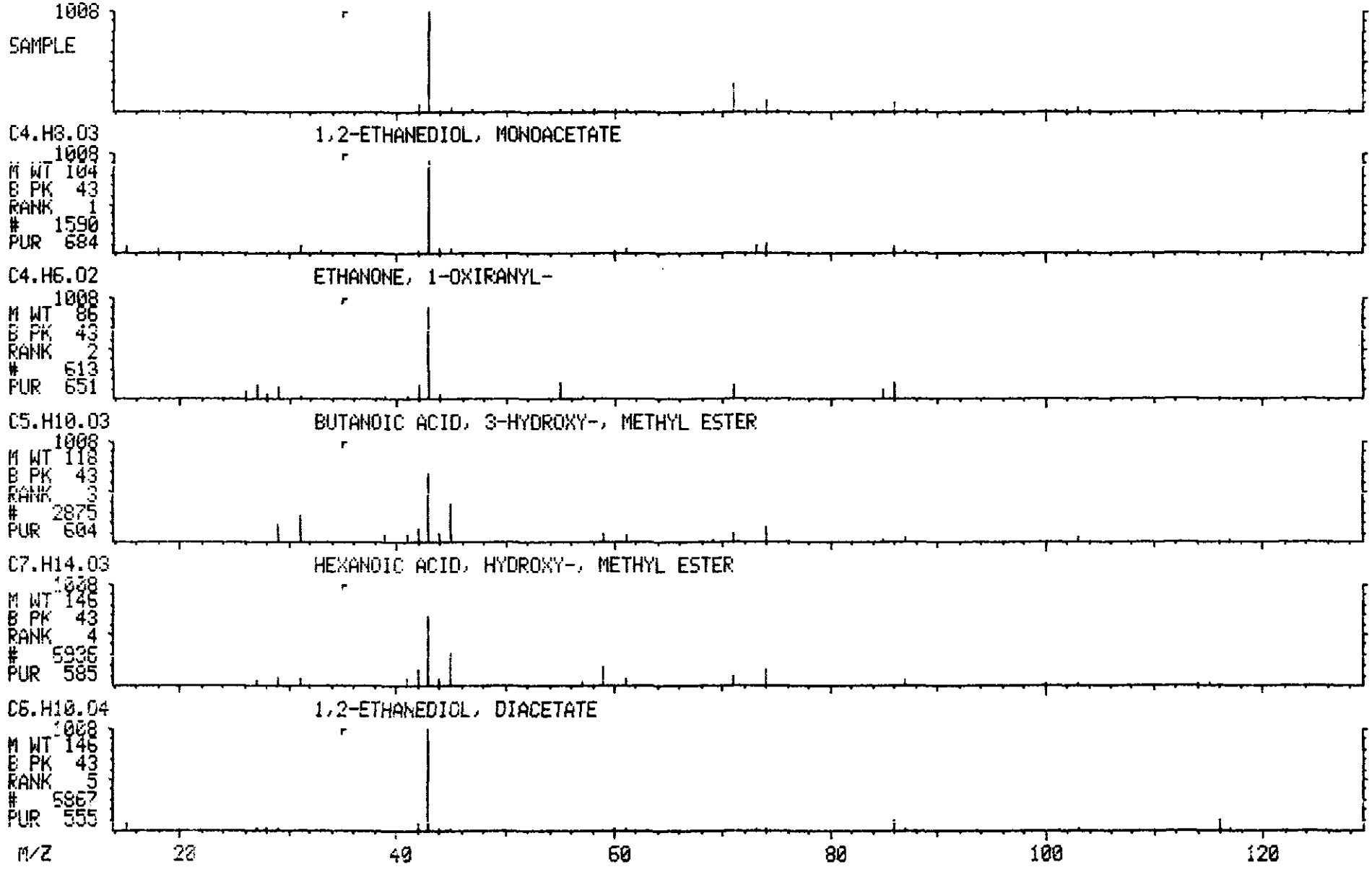
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 16:52:00 + 9:23
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 563
CALI: T2730 # 2

BASE M/Z: 43
RIC: 169471.

100454



Library Search Data: T2730 # 669 Base m/z: 43 ORIGINAL (Red)
05/23/90 16:52:00 + 11:09 Cali: T2730 # 2 RIC: 16863.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
176 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	4427	PENTANE, 1-PROPOXY-
2	4659	1-BUTANOL, 4-(1-METHYLETHOXY)-
3	273	ACETAMIDE, N-METHYL-
4	1454	ACETIC ACID, 1-METHYLETHYL ESTER
5	6209	2,7-OCTANEDIONE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H18.O	130	43	570	812	673
2	C7.H16.O2	132	43	542	783	586
3	C3.H7.O.N	73	30	525	839	532
4	C5.H10.O2	102	43	493	827	547
5	C8.H14.O2	142	43	488	700	637

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	18641-82-2
2	—	—	—	—	31600-69-8
3	—	—	—	—	79-16-3
4	—	—	—	—	108-21-4
5	—	—	—	—	1626-09-1

✓

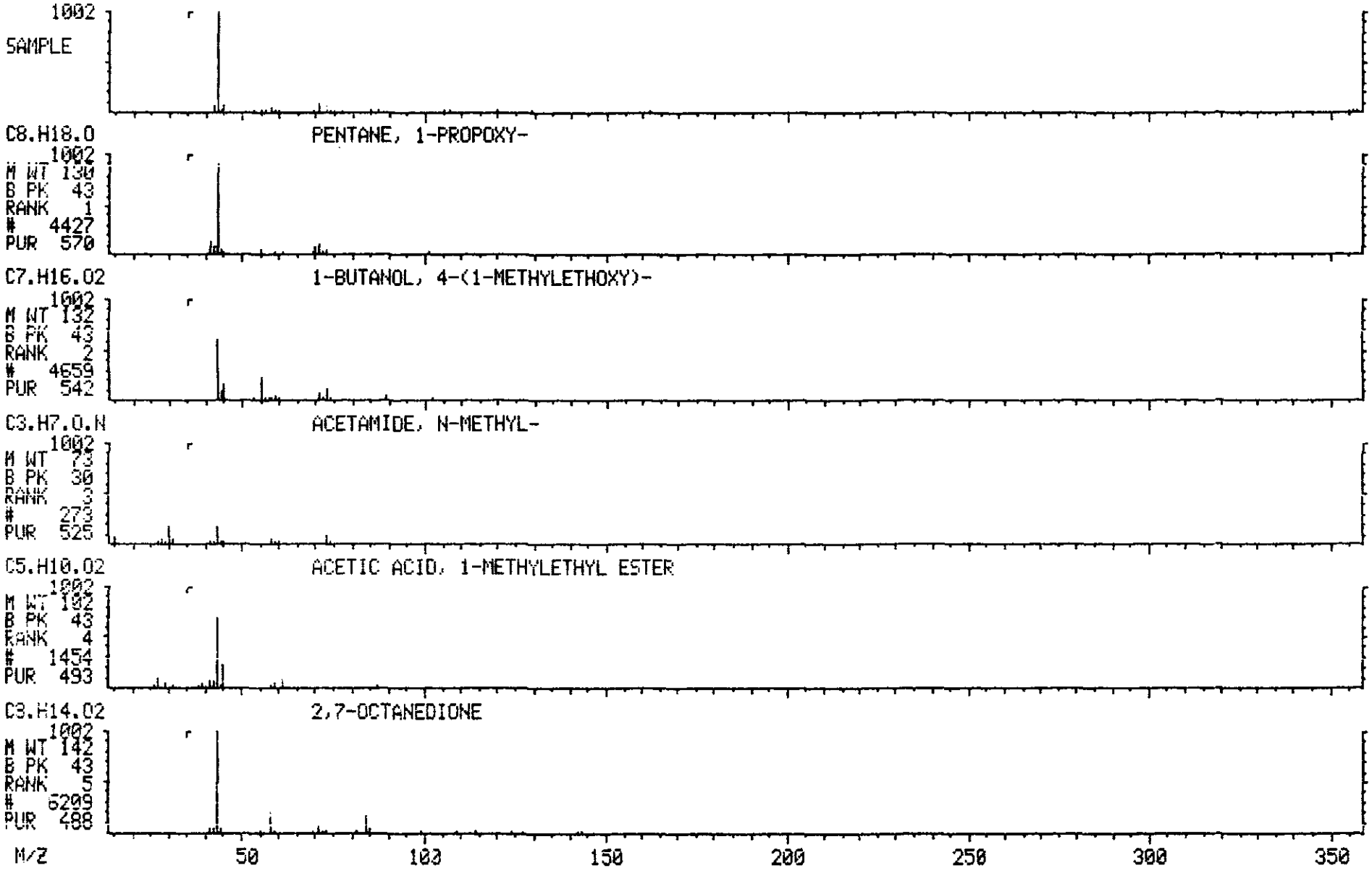
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 16:52:00 + 11:09
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 # 669
CALI: T2730 # 2

BASE M/Z: 43
RIC: 16863.

100450



Library Search Data: T2730 #1294 Base m/z: 43 ORIGINAL
05/23/90 16:52:00 + 21:34 Cali: T2730 # 2 RIC: 66815. (Red)
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
187 matched at least 3 of the 16 largest peaks in the unknown

Rank	In.	Name
1	31758	PHENOL, 2,4,6-TRIBROMO-
2	32118	STANNANE, TRIMETHYL(PENTAFLUOROPHENYL)-
3	32107	DIACENAPHTHO[1,2-B:1',2'-D]THIOPHENE
4	31948	ANTHRACENE, 9,10-DIPHENYL-
5	32110	ANTHRACENE, 9,10-DIHYDRO-9,10-DIPHENYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H3.O.BR3	328	330	702	966	702
2	C9.H9.F5.SN	332	43	325	568	469
3	C24.H12.S	332	332	324	529	443
4	C26.H18	330	330	306	491	368
5	C26.H20	332	332	302	472	404

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	118-79-6
2	—	—	—	—	1015-53-8
3	—	—	—	—	203-42-9
4	—	—	—	—	1499-10-1
5	—	—	—	—	803-58-7

✓

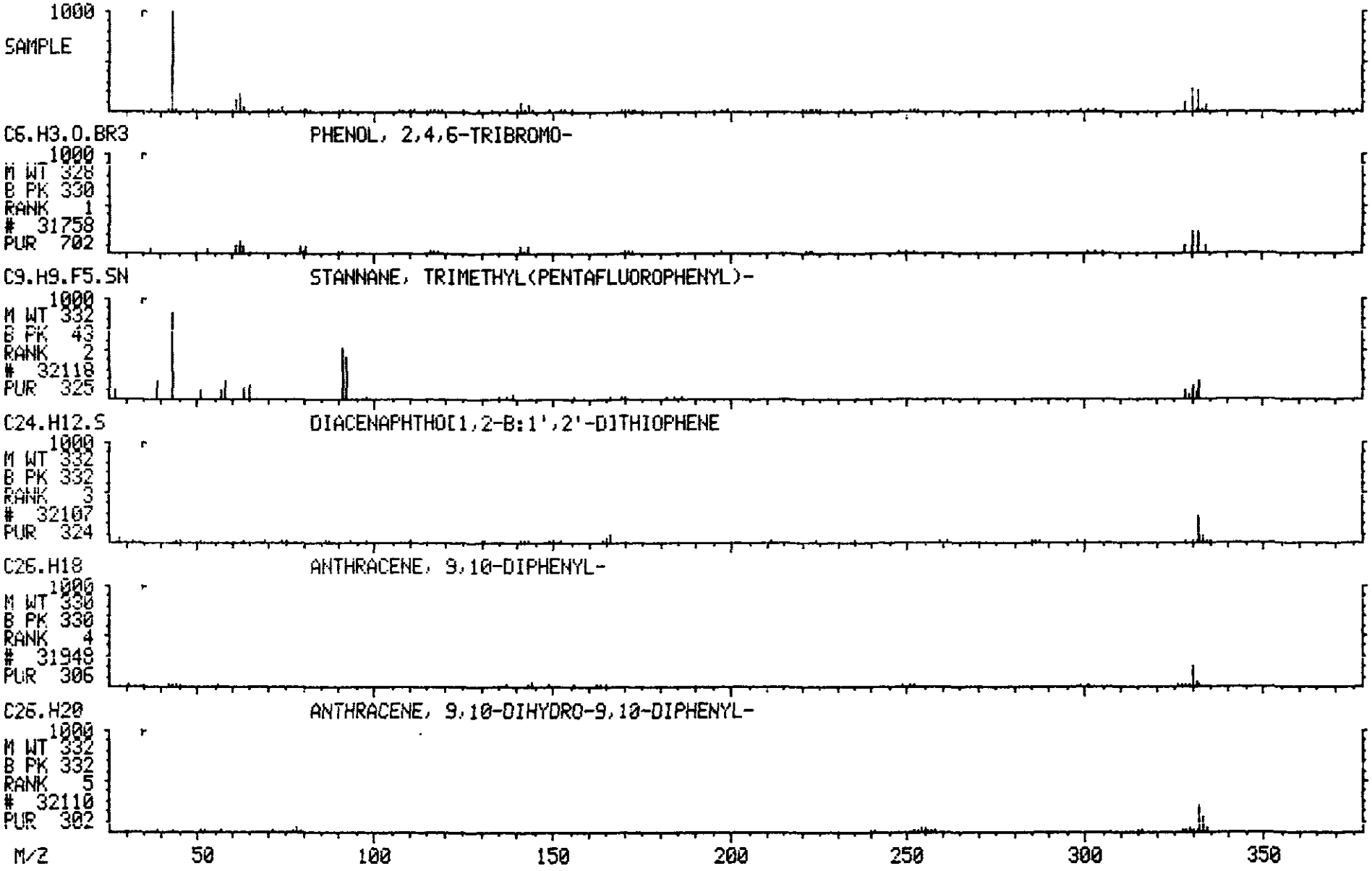
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 16:52:00 + 21:34
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 #1294
CALI: T2730 # 2

BASE M/Z: 43
RIC: 66815.

100458



Library Search Data: T2730 #1550 Base m/z: 55
05/23/90 16:52:00 + 25:50 Cali: T2730 # 2 RIC: 17311. ORIGINAL (Red)
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
95 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	27153	CYCLOHEXANE, 1-(1,5-DIMETHYLHEXYL)-4-(4-METHYLPENTYL)-
2	34219	PENTALENE, OCTAHYDRO-1-(2-OCTYLDECYL)-
3	33043	OCTADECANAL, 2-BROMO-
4	22446	OXIRANE, TETRADECYL-
5	20569	BUTANOIC ACID, 3,7-DIMETHYL-6-OCTENYL ESTER

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C20.H40	280	55	579	887	625
2	C26.H50	362	43	571	932	588
3	C18.H35.O.BR	346	57	560	821	662
4	C16.H32.O	240	41	535	930	552
5	C14.H26.O2	226	41	534	942	534

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	56009-20-2
2	—	—	—	—	55401-65-5
3	—	—	—	—	56599-95-2
4	—	—	—	—	7320-37-8
5	—	—	—	—	141-16-2

✓

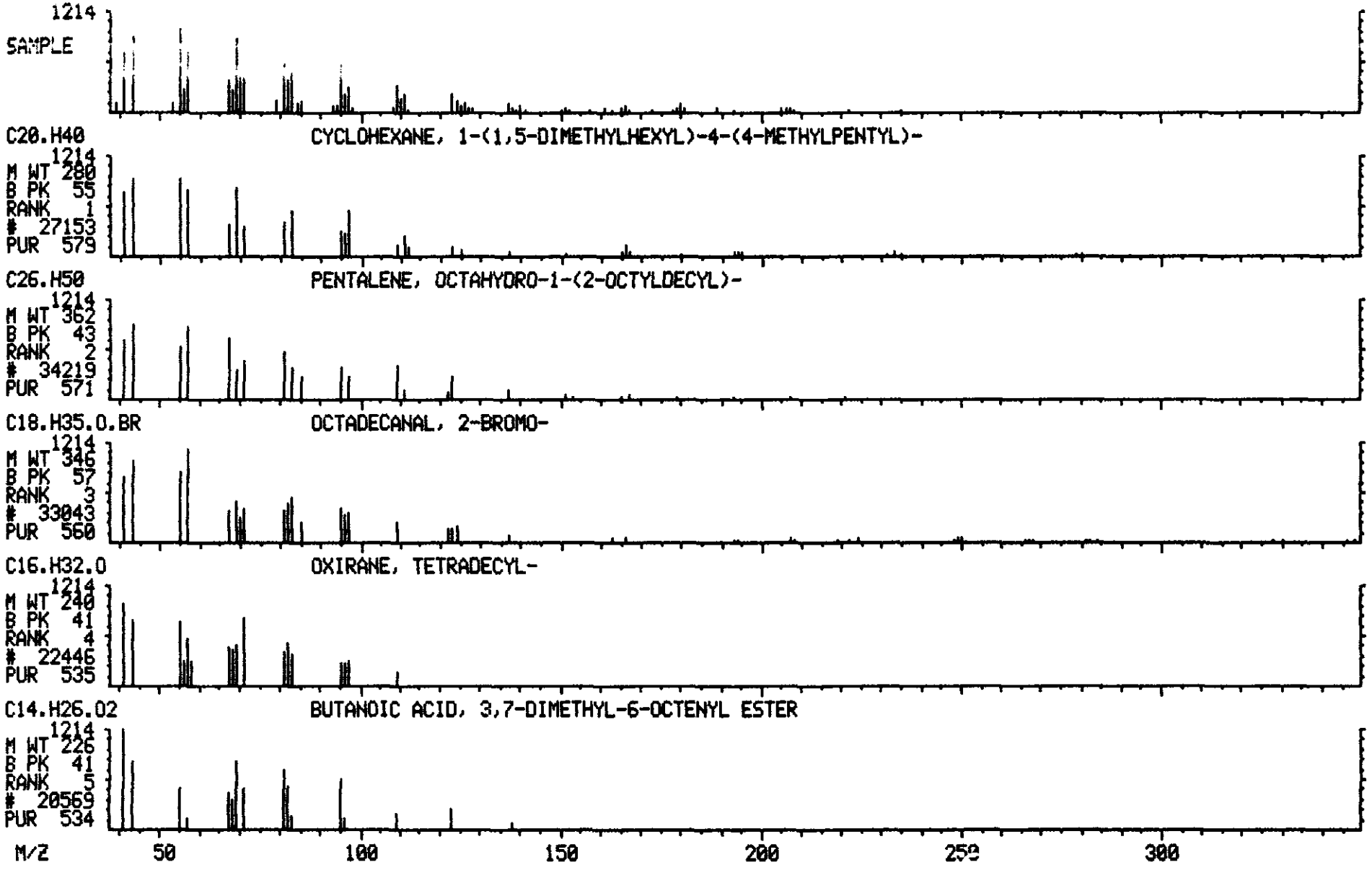
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 16:52:00 + 25:50
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 #1550
CALI: T2730 # 2

BASE M/Z: 55
RIC: 17311.

100460



Library Search Data: T2730 #2010 Base m/z: 59
05/23/90 16:52:00 + 33:30 Cali: T2730 # 2 RIC: 39807.

ORIGINAL
(Red)

Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
58 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	27222	9-OCTADECENAMIDE, (Z)-
2	2597	PENTANAMIDE, 4-METHYL-
3	1394	PENTANAMIDE
4	2594	HEXANAMIDE
5	11398	4-HEXEN-1-OL, 5-METHYL-2-(1-METHYLETHENYL)-, MONOEPOXIDE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H35.O.N	281	59	474	846	539
2	C6.H13.O.N	115	59	460	910	462
3	C5.H11.O.N	101	59	401	831	421
4	C6.H13.O.N	115	59	387	820	417
5	C10.H18.O2	170	59	356	851	381

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	301-02-0
2	—	—	—	—	1119-29-5
3	—	—	—	—	626-97-1
4	—	—	—	—	628-02-4
5	—	—	—	—	72509-75-2

✓

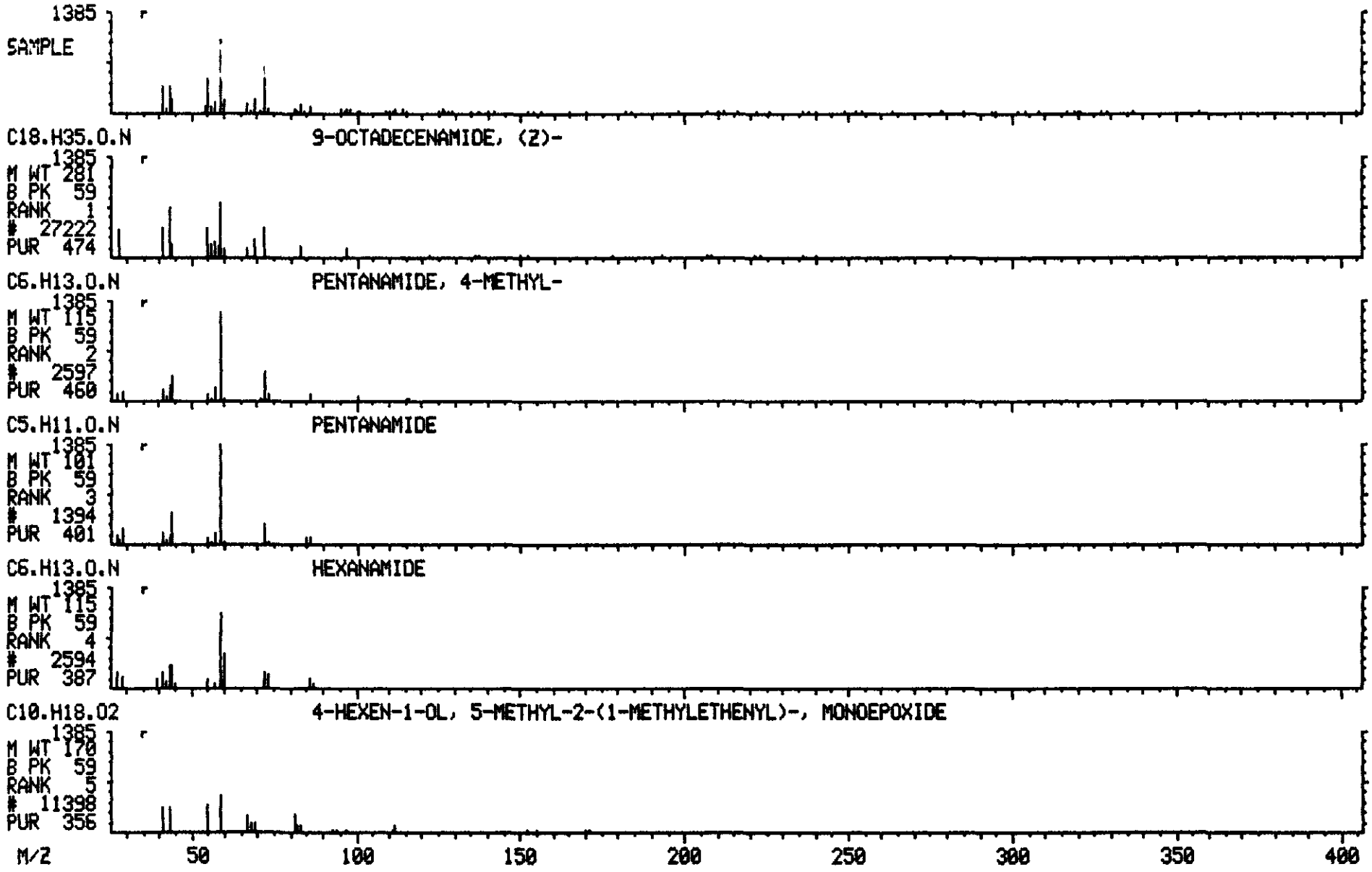
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 16:52:00 + 33:30
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 #2010
CALI: T2730 # 2

BASE M/Z: 59
RIC: 39807.

100462



Library Search Data: T2730 #2075 Base m/z: 57
05/23/90 16:52:00 + 34:35 Cali: T2730 # 2 RIC: 16927.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL
(Red)

42222 spectra in LIBRARYNB searched for maximum PURITY
347 matched at least 7 of the 16 largest peaks in the unknown

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Rank	In.	Name
1	33536	PENTACOSANE
2	30170	DOCOSANE
3	36165	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLMETHYLENE)BENZENAMINE-N,N']-
4	39944	HEXATRIACONTANE
5	25863	HEPTADECANE, 2,6-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C25.H52	352	57	715	887	794
2	C22.H46	310	57	713	918	763
3	C21.H14.O3.N2.FE	398	57	709	934	742
4	C36.H74	506	57	706	921	756
5	C19.H40	268	57	705	897	715

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	629-99-2
2	—	—	—	—	629-97-0
3	—	—	—	—	74764-11-7
4	—	—	—	—	630-06-8
5	—	—	—	—	54105-67-8

✓

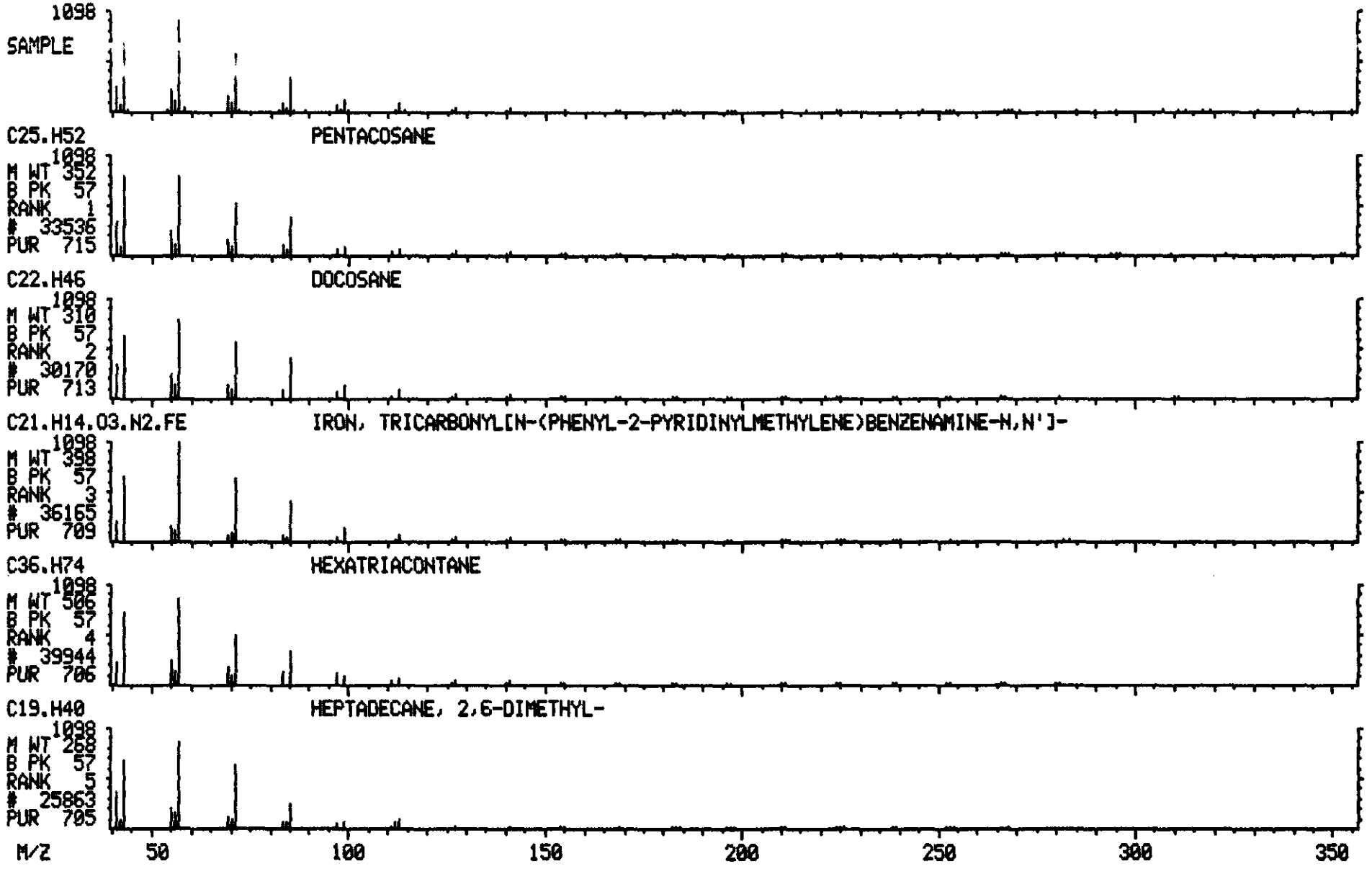
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 16:52:00 + 34:35
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 #2075
CALI: T2730 # 2

BASE M/Z: 57
RIC: 16927.

100464



Library Search Data: T2730 #2286 Base m/z: 191
05/23/90 16:52:00 + 38:06 Cali: T2730 # 2 RIC: 13983.
Sample: CLP,VERBCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL
(Red)

42222 spectra in LIBRARYNB searched for maximum PURITY
55 matched at least 6 of the 16 largest peaks in the unknown

pah

Rank	In.	Name
1	34095	ANTHRACENE, 9-DODECYLTETRADECAHYDRO-
2	34092	PHENANTHRENE, 9-DODECYLTETRADECAHYDRO-
3	26562	ANTHRACENE, 9-CYCLOHEXYLTETRADECAHYDRO-
4	23459	ANTHRACENE, 9-BUTYLTETRADECAHYDRO-
5	15125	CYCLOHEXANE, 1,1-DIMETHYL-2,4-BIS(1-METHYLETHENYL)-, CIS-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C26.H48	360	191	487	885	509
2	C26.H48	360	191	463	885	499
3	C20.H34	274	191	463	846	481
4	C18.H32	248	191	445	808	519
5	C14.H24	192	69	417	917	436

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	55401-75-7
2	—	—	—	—	55334-01-5
3	—	—	—	—	55255-70-4
4	—	—	—	—	55133-89-6
5	—	—	—	—	62337-98-8

✓

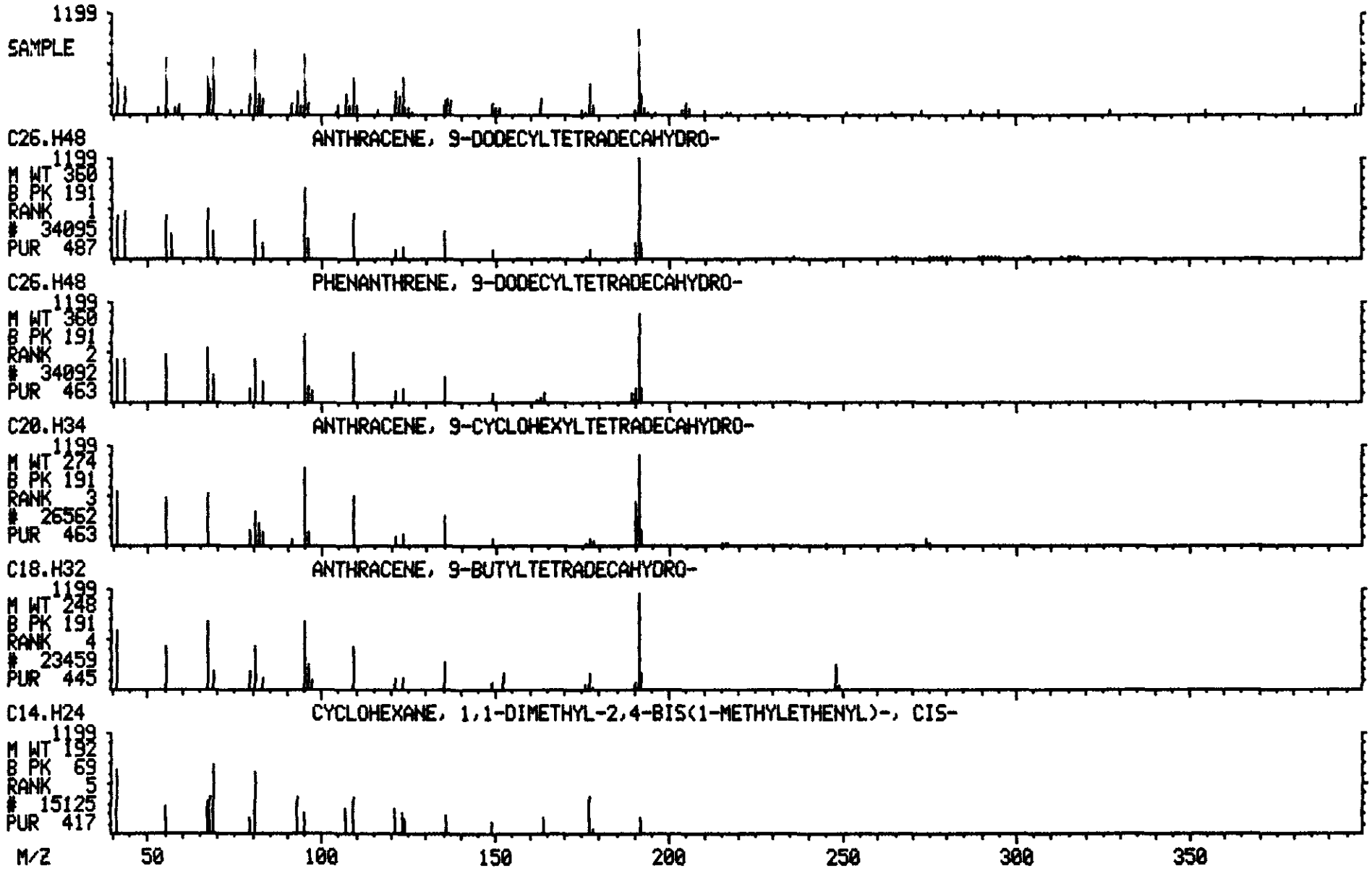
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 16:52:00 + 38:06
SAMPLE: CLP,VERSCOM,2565,13,L,5,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 158 2N 0T)

DATA: T2730 #2286
CALI: T2730 # 2

BASE M/Z: 191
RIC: 13983.

100466



Library Search Data: T2730 #2383 Base m/z: 191
05/23/90 16:52:00 + 39:43 Cali: T2730 # 2 RIC: 15423
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42222 spectra in LIBRARYNB searched for maximum PURITY
215 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	34092	PHENANTHRENE, 9-DODECYLTETRADECAHYDRO-
2	17547	TRICYCLO[4.3.0.07,9]NONANE, 2,2,5,5,8,8-HEXAMETHYL-, (1.ALPHA.,6.BE*
3	19613	2H-2,4A-ETHANONAPHTHALEN-8(5H)-ONE, HEXAHYDRO-2,5,5-TRIMETHYL-
4	30575	1,4-BENZENEDIOL, 2-[(DECAHYDRO-5,5,8A-TRIMETHYL-2-METHYLENE-1-NAPHT*
5	34095	ANTHRACENE, 9-DODECYLTETRADECAHYDRO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C26.H48	360	191	486	897	514
2	C15.H26	206	191	486	916	508
3	C15.H24.O	220	191	450	776	474
4	C21.H30.O2	314	191	448	764	537
5	C26.H48	360	191	442	857	482

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	55334-01-5
2	—	—	—	—	54832-82-5
3	—	—	—	—	32391-46-1
4	—	—	—	—	39707-54-5
5	—	—	—	—	55401-75-7

✓

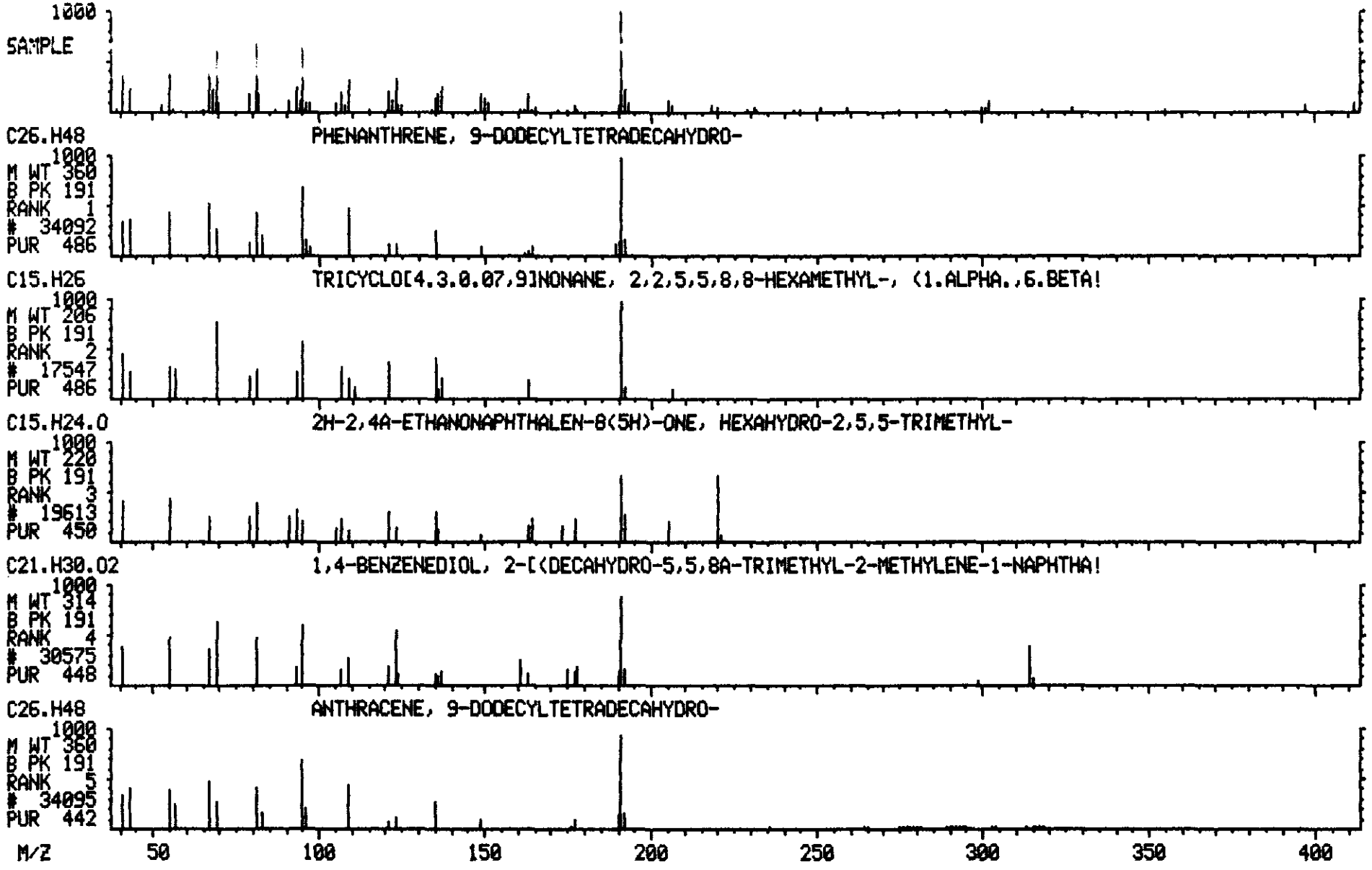
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 16:52:00 + 39:43
SAMPLE: CLP,VERSCOM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2730 #2383
CALI: T2730 # 2

BASE M/Z: 191
RIC: 15423.

100469A



ORIGINAL
(Red)

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        >>>>INTERNAL STANDARD RIC REPORT<<<<
****************************INTERNAL STANDARD#1*****************RIC
Mass List                      Data: T2730 # 512          Base m/z:   150
05/23/90 16:52:00 +  8:32      Cali: T2730 #   2          RIC:     118912.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     35        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
****************************INTERNAL STANDARD#2*****************RIC
Mass List                      Data: T2730 # 730          Base m/z:   136
05/23/90 16:52:00 + 12:10      Cali: T2730 #   2          RIC:     151296.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
****************************INTERNAL STANDARD#3*****************RIC
Mass List                      Data: T2730 #1060          Base m/z:   164
05/23/90 16:52:00 + 17:40      Cali: T2730 #   2          RIC:     149504.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
****************************INTERNAL STANDARD#4*****************RIC
Mass List                      Data: T2730 #1342          Base m/z:   188
05/23/90 16:52:00 + 22:22      Cali: T2730 #   2          RIC:     177920.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
****************************INTERNAL STANDARD#5*****************RIC
Mass List                      Data: T2730 #1858          Base m/z:   240
05/23/90 16:52:00 + 30:58      Cali: T2730 #   2          RIC:     136192.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
****************************INTERNAL STANDARD#6*****************RIC
Mass List                      Data: T2730 #2154          Base m/z:   186
05/23/90 16:52:00 + 35:54      Cali: T2730 #   2          RIC:        565.
Sample: CLP,VERSCDM,2565,13,L,S,16915,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     87        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
     ANALYST: CHECK BASE M/Z AND RIC AMOUNT TO INSURE NO CONTAMINATION
```

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

14	ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4_CDM

Matrix: (soil/water) SOIL Lab Sample ID: 16916

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2731

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 50 dec. ____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/23/90

GPC Cleanup: (Y/N) Y pH: 9.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1400	U
111-44-4	bis(2-Chloroethyl)ether	1400	U
95-57-8	2-Chlorophenol	1400	U
541-73-1	1,3-Dichlorobenzene	1400	U
106-46-7	1,4-Dichlorobenzene	1400	U
100-51-6	Benzyl alcohol	1400	U
95-50-1	1,2-Dichlorobenzene	1400	U
95-48-7	2-Methylphenol	1400	U
108-60-1	bis(2-Chloroisopropyl)ether	1400	U
106-44-5	4-Methylphenol	1400	U
621-64-7	N-Nitroso-di-n-propylamine	1400	U
67-72-1	Hexachloroethane	1400	U
98-95-3	Nitrobenzene	1400	U
78-59-1	Isophorone	1400	U
88-75-5	2-Nitrophenol	1400	U
105-67-9	2,4-Dimethylphenol	1400	U
65-85-0	Benzoic Acid	6700	U
111-91-1	bis(2-Chloroethoxy)methane	1400	U
120-83-2	2,4-Dichlorophenol	1400	U
120-82-1	1,2,4-Trichlorobenzene	1400	U
91-20-3	Naphthalene	1400	U
106-47-8	4-Chloroaniline	1400	U
87-68-3	Hexachlorobutadiene	1400	U
59-50-7	4-Chloro-3-methylphenol	1400	U
91-57-6	2-Methylnaphthalene	1400	U
77-47-4	Hexachlorocyclopentadiene	1400	U
88-06-2	2,4,6-Trichlorophenol	1400	U
95-95-4	2,4,5-Trichlorophenol	6700	U
91-58-7	2-Chloronaphthalene	1400	U
88-74-4	2-Nitroaniline	6700	U
131-11-3	Dimethylphthalate	1400	U
208-96-8	Acenaphthylene	1400	U
606-20-2	2,6-Dinitrotoluene	1400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

14 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4 CDM

Matrix: (soil/water) SOIL Lab Sample ID: 16916

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2731

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 50 dec. ____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/23/90

GPC Cleanup: (Y/N) Y pH: 9.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	6700	U
83-32-9	Acenaphthene	1400	U
51-28-5	2,4-Dinitrophenol	6700	U
100-02-7	4-Nitrophenol	6700	U
132-64-9	Dibenzofuran	1400	U
121-14-2	2,4-Dinitrotoluene	1400	U
84-66-2	Diethylphthalate	1400	U
7005-72-3	4-Chlorophenyl-phenylether	1400	U
86-73-7	Fluorene	1400	U
100-01-6	4-Nitroaniline	6700	U
534-52-1	4,6-Dinitro-2-methylphenol	6700	U
86-30-6	N-nitrosodiphenylamine (1)	1400	U
101-55-3	4-Bromophenyl-phenylether	1400	U
118-74-1	Hexachlorobenzene	1400	U
87-86-5	Pentachlorophenol	6700	U
85-01-8	Phenanthrene	1400	U
120-12-7	Anthracene	1400	U
84-74-2	Di-n-butylphthalate	1400	U
206-44-0	Fluoranthene	1400	U
129-00-0	Pyrene	1400	U
85-68-7	Butylbenzylphthalate	1400	U
91-94-1	3,3'-Dichlorobenzidine	2800	U
56-55-3	Benzo(a)anthracene	1400	U
218-01-9	Chrysene	1400	U
117-81-7	bis(2-Ethylhexyl)phthalate	1400	U
117-84-0	Di-n-octyl phthalate	1400	U
205-99-2	Benzo(b)fluoranthene	1400	U
207-08-9	Benzo(k)fluoranthene	1400	U
50-32-8	Benzo(a)pyrene	1400	U
193-39-5	Indeno(1,2,3-cd)pyrene	1400	U
53-70-3	Dibenz(a,h)anthracene	1400	U
191-24-2	Benzo(g,h,i)perylene	1400	U

(1) - Cannot be separated from Diphenylamine

100470

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

14 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4 CDM

Matrix: (soil/water) SOIL Lab Sample ID: 16916

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2731

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 50 dec. ____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/23/90

GPC Cleanup: (Y/N) Y pH: 9.3 Dilution Factor: 1.0

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.95	6300	BJ
2.	UNKNOWN	5.30	2200	BJ
3.	UNKNOWN HYDROCARBON	5.45	980	BJ
4.	UNKNOWN	6.85	980	J
5.	UNKNOWN KETONE	7.25	6600	BJ
6.	UNKNOWN KETONE	7.45	2900	J
7.	UNKNOWN	8.15	7600	J
8.	UNKNOWN	8.47	840	J
9.	UNKNOWN	9.40	6500	J
10.	UNKNOWN	16.60	560	J
11.	UNKNOWN	16.95	700	J
12.	UNKNOWN	17.50	1300	J
13.	UNKNOWN	18.15	700	J
14.	UNKNOWN	20.59	700	J
15.	UNKNOWN	30.31	2700	J
16.	UNKNOWN	30.59	1300	J
17.	UNKNOWN HYDROCARBON	32.52	2800	J
18.	UNKNOWN	33.51	2200	BJ
19.	UNKNOWN HYDROCARBON	34.59	10000	J
20.	UNKNOWN	35.16	1500	J
21.	UNKNOWN ALDEHYDE	36.67	2900	J
22.	UNKNOWN HYDROCARBON	37.52	1500	J
23.	UNKNOWN ALDEHYDE	40.64	2000	J

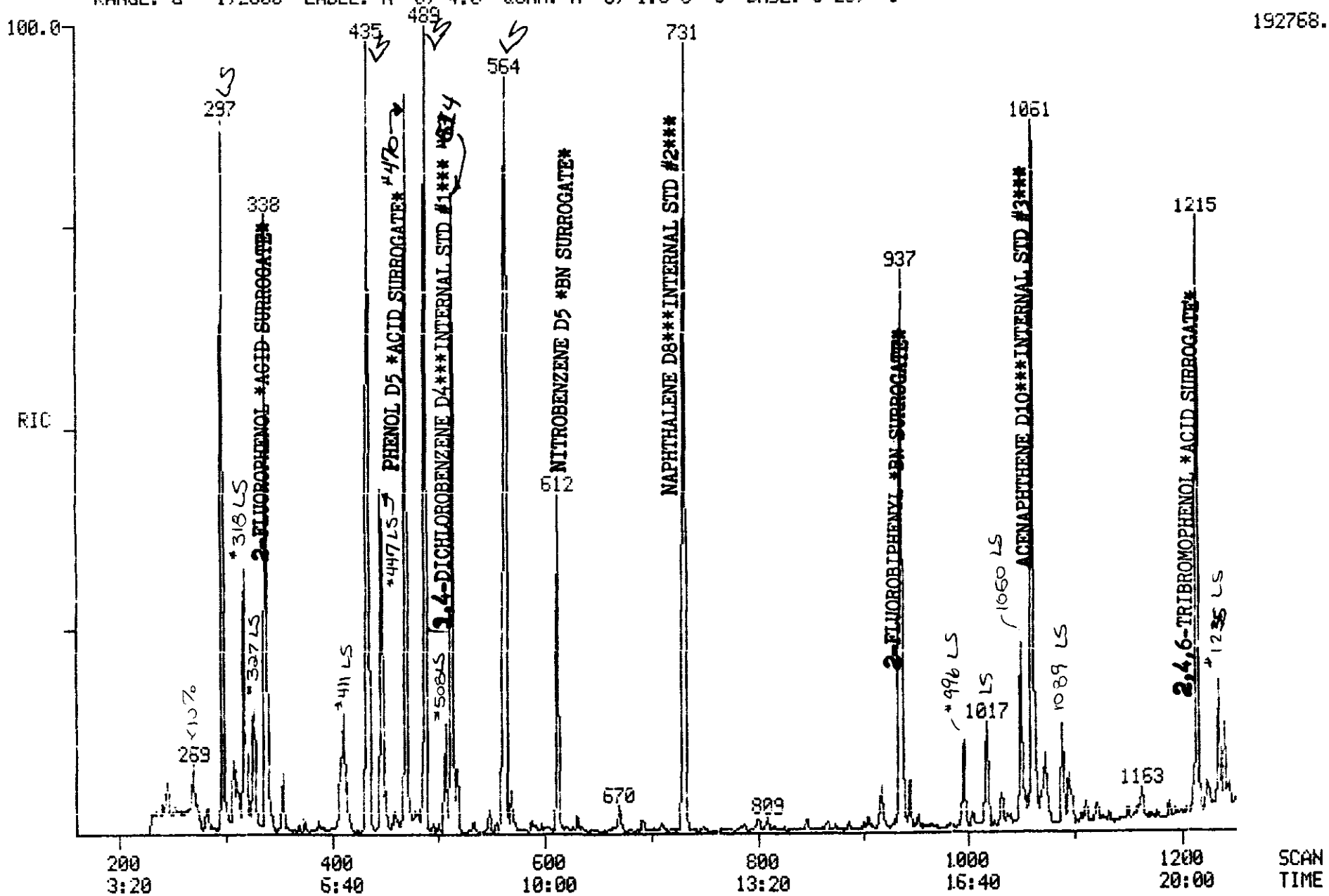
ORIGINAL (Red)

RIC
05/23/90 17:42:00
SAMPLE: CLP,VERSCOM,2565,14,L,S,16916,B,,420,1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2731 #1
CALI: T2731 #2

SCANS 160 TO 1250

100472

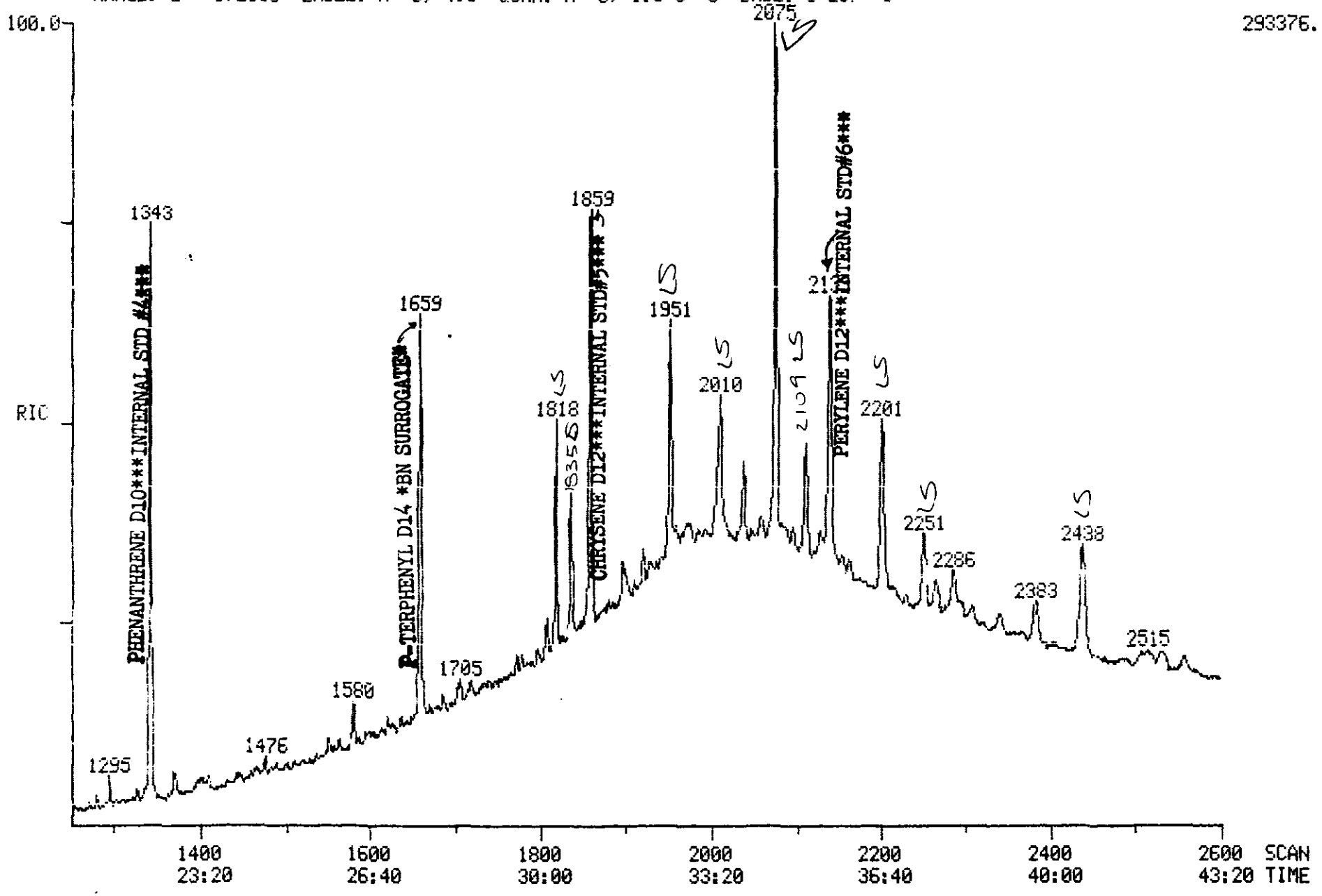


ORIGINAL (Red)

RIC
05/23/90 17:42:00
SAMPLE: CLP,VERSCOM,2565,14,L,S,16916,B,,420,1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2731 #1
CALI: T2731 #2

SCANS 1250 TO 2600

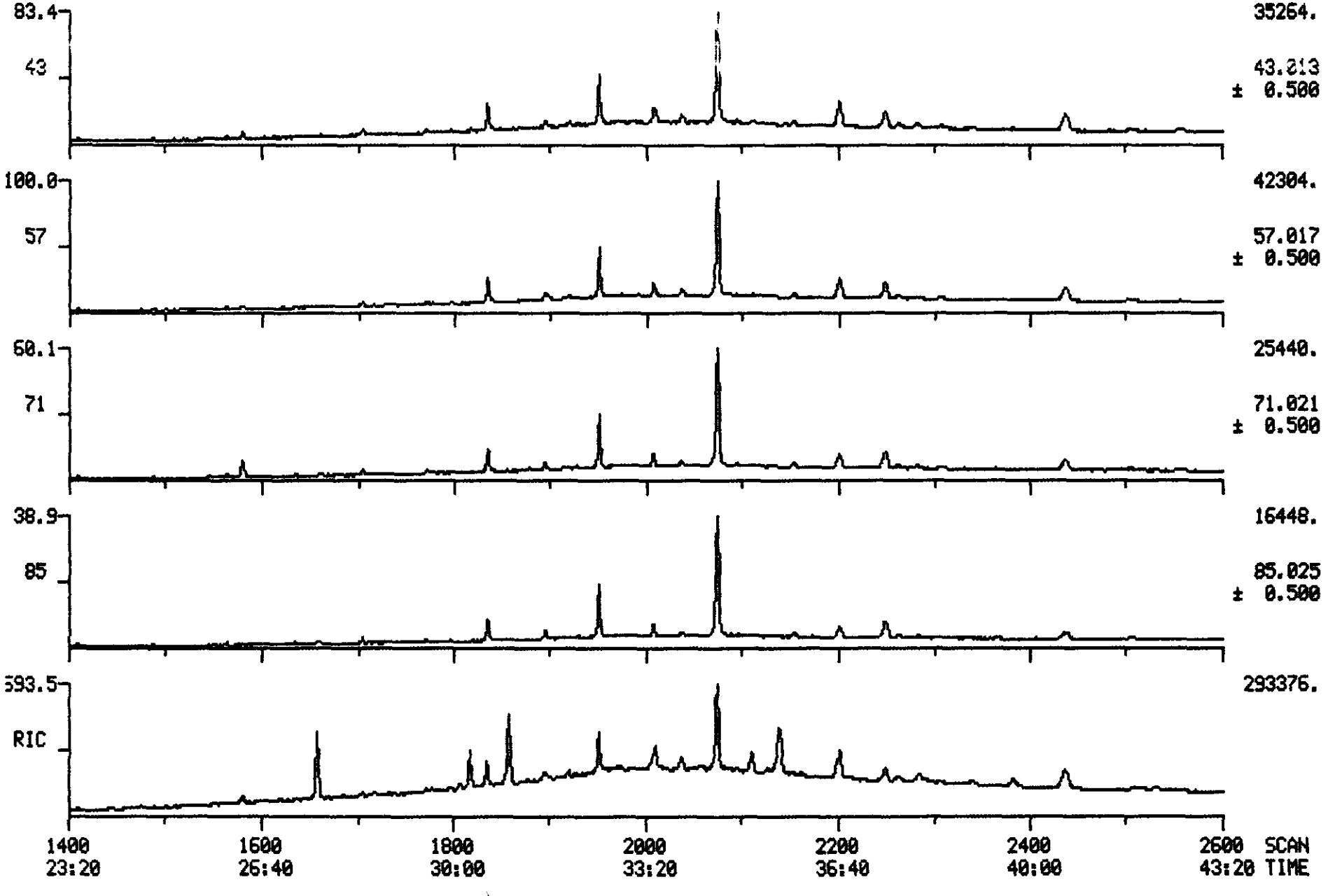


100473

ORIGINAL (Red)

RIC+MASS CHROMATOGRAMS DATA: T2731 #1 SCANS 1400 TO 2600
05/23/90 17:42:00 CALI: T2731 #2
SAMPLE: CLP,VERSCOM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

2



00474

Quantitation Report * File: T2731

ORIGINAL (Red)

Data: T2731.TI
05/23/90 17:42:00
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

All IS areas + Surrogate recoveries are Compliant
SJC
5/24/90

No HSL's

23 LIBS SRCHS
5 of 23 in BLNK

T2731

ORIGINAL (Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	514	8:34	1	1.000	A BB	48477.	40.000 NG/UL	8.07
2	128	489	8:09	1	0.951	A BB	1656.	BRL ~~1.078 NG.~~	0.22
3	94	472	7:52	1	0.918	A BB	912.	BRL ~~0.407 NG.~~	0.08
4	NOT FOUND								
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	112	338	5:38	1	0.658	A BB	75721.	47.438 NG*A1	9.57
15	99	470	7:50	1	0.914	A BB	118518.	55.364 NG*A2	11.16
16	136	731	12:11	16	1.000	A BB	147339.	40.000 NG/UL	8.07
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	122	692	11:32	16	0.947	A BB	583.	BRL ~~0.873 NG~~	0.18
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	82	612	10:12	16	0.837	A BB	57071.	25.587 NG*B1	5.16
31	164	1061	17:41	31	1.000	A BB	100434.	40.000 NG/UL	8.07
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	109	1101	18:21	31	1.038	A VB	443.	BRL ~~0.839 NG.~~	0.17
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	138	1187	19:47	31	1.119	A BB	190.	BRL ~~0.186 NG~~	0.04
50	NOT FOUND								

T2731

ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:32	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:05	1.01	0.947	1.00	1.08	50.00	0.027	1.267	0.02
3	7:50	1.00	0.918	1.00	0.41	50.00	0.015	1.842	0.01
4	8:02		0.941						
5	8:26		0.988						
6	8:35		1.004						
7	9:04		1.062						
8	9:01		1.057						
9	9:27		1.107						
10	9:23		1.100						
11	9:53		1.158						
12	9:48		1.148						
13	9:52		1.156						
14	5:35	1.01	0.654	1.01	47.44	50.00	1.250	1.317	0.95
15	7:48	1.00	0.914	1.00	55.36	50.00	1.956	1.766	1.11
16	12:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:14		0.842						
18	10:53		0.896						
19	11:08		0.916						
20	11:19		0.931						
21	11:38		0.957						
22	11:48		0.971						
23	12:03		0.992						
24	12:13		1.005						
25	11:42	0.99	0.963	0.98	0.87	50.00	0.003	0.181	0.02
26	12:32		1.032						
27	12:46		1.051						
28	14:03		1.156						
29	14:19		1.178						
30	10:11	1.00	0.838	1.00	25.59	50.00	0.310	0.606	0.51
31	17:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:01		0.851						
33	15:20		0.869						
34	15:26		0.874						
35	15:50		0.897						
36	16:23		0.928						
37	17:10		0.973						
38	17:06		0.969						
39	17:20		0.982						
40	17:46		1.007						
41	17:43		1.004						
42	18:01		1.021						
43	18:16		1.035						
44	18:18	1.00	1.037	1.00	0.84	50.00	0.004	0.210	0.02
45	18:32		1.050						
46	19:22		1.097						
47	19:26		1.101						
48	19:22		1.097						
49	19:42	1.00	1.116	1.00	0.19	50.00	0.002	0.407	0.00
50	19:47		1.121						

ORIGINAL (Red)

Quantitation Report File: T2731

Data: T2731.TI
05/23/90 17:42:00
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)		Amount	%Tot
51	NOT FOUND									
52	NOT FOUND									
53	NOT FOUND									
54	172	937	15:37	31	0.883	A BB	97843.		29.396 NG*B2	5.93
55	188	1343	22:23	55	1.000	A BV	198396.		40.000 NG/UL	8.07
56	NOT FOUND									
57	178	1346	22:26	55	1.002	A BB	2770.	BRL	~~0.513 NG~~	0.10
58	178	1346	22:26	55	1.002	A BB	2770.		~~0.522 NG~~	0.11
59	NOT FOUND									
60	NOT FOUND									
61	NOT FOUND									
62	330	1214	20:14	31	1.144	A BB	39117.		55.572 NG*A3	11.21
63	240	1858	30:58	63	1.000	A BB	161107.		40.000 NG/UL	8.07
64	149	1765	29:25	63	0.950	A BB	490.	BRL	~~0.177 NG~~	0.04
65	228	1855	30:55	63	0.998	A BV	1411.		~~0.343 NG~~	0.07
66	228	1862	31:02	63	1.002	A VB	2354.		~~0.799 NG~~	0.16

100478

T2731 ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT FOUND								
68	149	1879	31:19	63	1.011	A BB	3100.	BRL ~~0.786 NG~~	0.16
69	244	1659	27:39	63	0.893	A BB	125996.	34.874 NG*B3	7.03
70	264	2139	35:39	70	1.000	A BB	143956.	40.000 NG/UL	8.07
71	149	1985	33:05	70	0.928	A BB	725.	~~0.112 NG~~	0.02
72	252	2052	34:12	70	0.959	A BB	3305.	~~0.734 NG~~	0.15
73	NOT FOUND							BRL	
74	252	2124	35:24	70	0.993	A BB	1353.	~~0.355 NG~~	0.07
75	NOT FOUND								
76	NOT FOUND								
77	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	19:52		1.126						
52	20:58		1.188						
53	21:21		1.210						
54	15:36	1.00	0.884	1.00	29.40	50.00	0.779	1.326	0.59
55	22:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	21:58		0.983						
57	22:25	1.00	1.003	1.00	0.51	50.00	0.011	1.088	0.01
58	22:33	0.99	1.009	0.99	0.52	50.00	0.011	1.071	0.01
59	24:34		1.099						
60	26:16		1.175						
61	26:59		0.872						
62	20:12	1.00	1.144	1.00	55.57	50.00	0.312	0.280	1.11
63	30:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:23	1.00	0.950	1.00	0.18	50.00	0.002	0.686	0.00
65	30:53	1.00	0.998	1.00	0.34	50.00	0.007	1.021	0.01
66	31:01	1.00	1.003	1.00	0.80	50.00	0.012	0.732	0.02
67	30:56		1.000						
68	31:16	1.00	1.011	1.00	0.79	50.00	0.015	0.979	0.02
69	27:36	1.00	0.892	1.00	34.87	50.00	0.626	0.897	0.70
70	35:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:02	1.00	0.928	1.00	0.11	50.00	0.004	1.795	0.00
72	34:10	1.00	0.960	1.00	0.73	50.00	0.018	1.251	0.01
73	34:15		0.963						
74	35:21	1.00	0.993	1.00	0.35	50.00	0.008	1.060	0.01
75	40:48		1.147						
76	40:58		1.151						
77	42:25		1.192						

Quantitation Report File: QCREF

ORIGINAL (Red)

Data: T2731.TI
05/23/90 17:42:00
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI40 NAPHTHALENE-D8**INT. STD.#2**
3	CI50 ACENAPHTHENE-D10**INT. STD.#3**
4	CI60 PHENANTHRENE-D10**INT. STD.#4**
5	CI70 CHRYSENE-D12**INT. STD.#5**
6	CI75 PERYLENE-D12**INT. STD.#6**
7	CS50 2-FLUOROPHENOL**ACID SURR.**
8	CS45 PHENOL-D5**ACID SURR.**
9	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
10	CS20 NITROBENZENE-D5**BN SURR.**
11	CS25 2-FLUOROBIPHENYL**BN SURR.**
12	CS30 P-TERPHENYL-D14**BN SURR.**

x 1.053

Scan	Time	Area(Hght)		Amount		Name
514	8:34	48477.		40.000	NG/UL	CI30 1,4-DICHLOROBENZENE-D4
731	12:11	147339.	%	40.000	NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1061	17:41	100434.		40.000	NG/UL	CI50 ACENAPHTHENE-D10**INT.
1343	22:23	198396.	Rec	40.000	NG/UL	CI60 PHENANTHRENE-D10**INT.
1858	30:58	161107.		40.000	NG/UL	CI70 CHRYSENE-D12**INT. STD.
2139	35:39	143956.		40.000	NG/UL	CI75 PERYLENE-D12**INT. STD.
338	5:38	75721.	50	47.438	NG*A1	CS50 2-FLUOROPHENOL**ACID SU
470	7:50	118518.	58	55.364	NG*A2	CS45 PHENOL-D5**ACID SURR.**
1214	20:14	39117.	59	55.572	NG*A3	CS55 2,4,6,-TRIBROMOPHENOL**
612	10:12	57071.	54	25.587	NG*B1	CS20 NITROBENZENE-D5**BN SUR
937	15:37	97843.	62	29.396	NG*B2	CS25 2-FLUOROBIPHENYL**BN SU
1659	27:39	125996.	73.	34.874	NG*B3	CS30 P-TERPHENYL-D14**BN SUR

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:32	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	17:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	30:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	35:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	5:35	1.01	0.654	1.01	47.44	50.00	1.250	1.317	0.95
8	7:48	1.00	0.914	1.00	55.36	50.00	1.956	1.766	1.11
9	20:12	1.00	1.144	1.00	55.57	50.00	0.312	0.280	1.11
10	10:11	1.00	0.838	1.00	25.59	50.00	0.310	0.606	0.51
11	15:36	1.00	0.884	1.00	29.40	50.00	0.779	1.326	0.59
12	27:36	1.00	0.892	1.00	34.87	50.00	0.626	0.897	0.70

Quantitation Report File: ISREF

ORIGINAL (Red)

Data: T2726.TI
05/23/90 12:04:00
Sample: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: -

Data: T2731.TI
05/23/90 17:42:00
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
3	CI40 NAPHTHALENE-D8**INT. STD. #2**
4	CI40 NAPHTHALENE-D8**INT. STD. #2**
5	CI50 ACENAPHTHENE-D10**INT. STD. #3**
6	CI50 ACENAPHTHENE-D10**INT. STD. #3**
7	CI60 PHENANTHRENE-D10**INT. STD. #4**
8	CI60 PHENANTHRENE-D10**INT. STD. #4**
9	CI70 CHRYSENE-D12**INT. STD. #5**
10	CI70 CHRYSENE-D12**INT. STD. #5**
11	CI75 PERYLENE-D12**INT. STD. #6**
12	CI75 PERYLENE-D12**INT. STD. #6**

Scan	Time	Area(Hght)	Amount	Name
512	8:32	32730.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
514	8:34	48477.	59.245 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
729	12:09	101194.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
731	12:11	147339.	58.240 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1059	17:39	68217.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1061	17:41	100434.	58.891 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1341	22:21	135436.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1343	22:23	198396.	58.595 NG/UL	CI60 PHENANTHRENE-D10**INT.
1856	30:56	112578.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
1858	30:58	161107.	57.243 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2135	35:35	97334.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
2139	35:39	143956.	59.159 NG/UL	CI75 PERYLENE-D12**INT. STD.

Library Search Data: T2731 # 297 Base m/z: 43
05/23/90 17:42:00 + 4:57 Cali: T2731 # 2 RIC: 147711.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@6C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
97 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	2776	2-PENTANOL, 2,4-DIMETHYL-
2	806	HYDROPEROXIDE, 1,1-DIMETHYLETHYL
3	9176	2-HEXANONE, 6-(ACETYLOXY)-
4	1334	OXIRANE, TETRAMETHYL-
5	2696	1,3-DIOXOLANE, 2,2,4-TRIMETHYL-

B

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H16.O	116	59	744	780	760
2	C4.H10.O2	90	59	724	887	731
3	C8.H14.O3	158	43	663	693	681
4	C6.H12.O	100	59	657	820	669
5	C6.H12.O2	116	43	647	709	816

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	625-06-9
2	—	—	—	—	75-91-2
3	—	—	—	—	4305-26-4
4	—	—	—	—	5076-20-0
5	—	—	—	—	1193-11-9

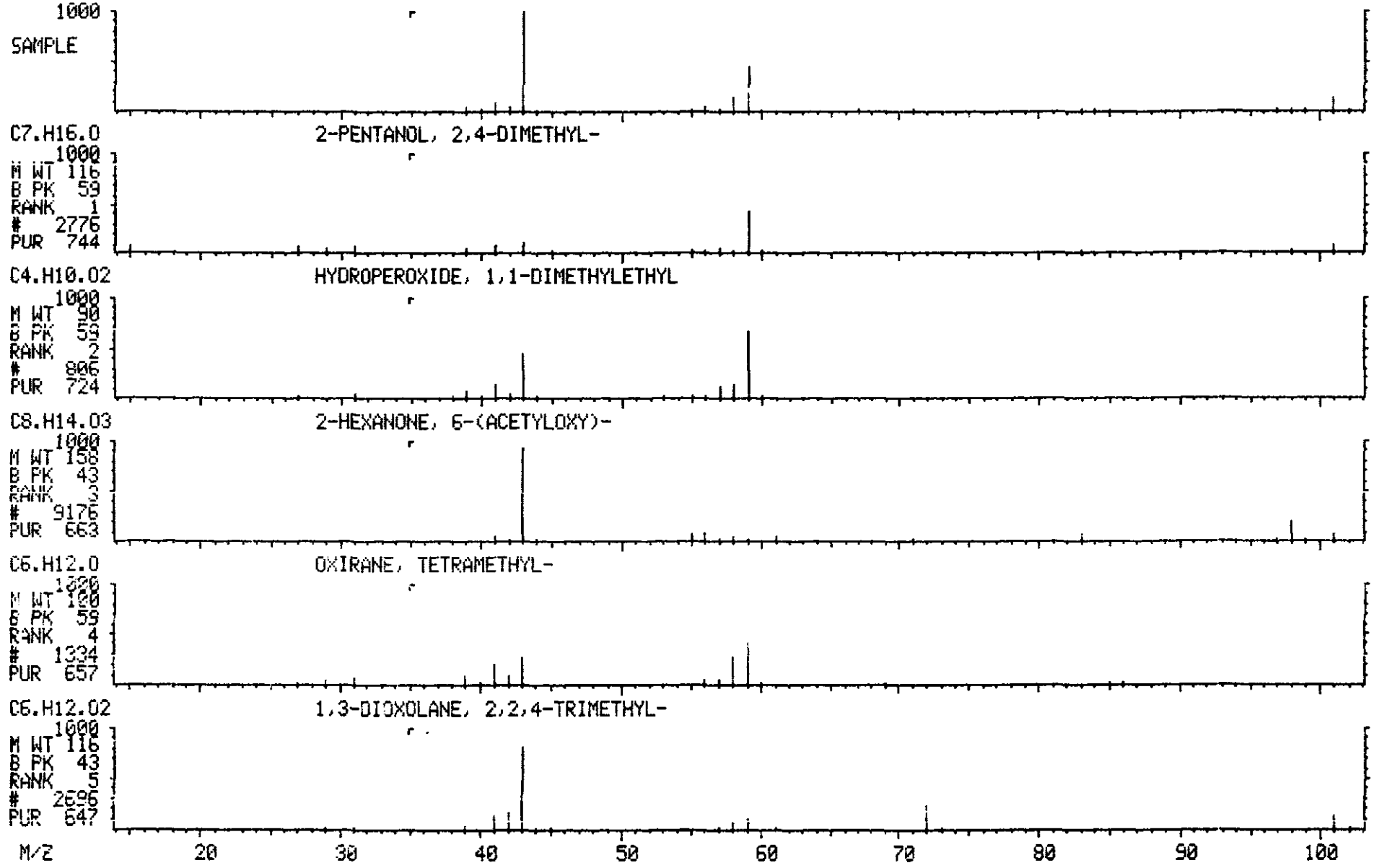
✓

LIBRARY SEARCH
05/23/90 17:42:00 + 4:57
SAMPLE: CLP,VERSCOM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 # 297
CALI: T2731 # 2

BASE M/Z: 43
RIC: 147711.

100483



ORIGINAL (Red)

Library Search Data: T2731 # 318 Base m/z: 43
05/23/90 17:42:00 + 5:18 Cali: T2731 # 2 RIC: 50815.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
229 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6635	1-HEPTANOL, 2,4-DIMETHYL-, (R,R)-(+)-
2	4411	1-HEPTANOL, 6-METHYL-
3	20456	ACETIC ACID, TRIFLUORO-, OCTYL ESTER
4	9380	DECANE, 1-FLUORO-
5	4435	ISOOCTANOL

B

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H20.O	144	43	781	902	799
2	C8.H18.O	130	41	779	900	779
3	C10.H17.O2.F3	226	41	752	883	772
4	C10.H21.F	160	43	744	906	753
5	C8.H18.O	130	43	743	900	743

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	18450-73-2
2	—	—	—	—	1653-40-3
3	—	—	—	—	2561-21-9
4	—	—	—	—	334-56-5
5	—	—	—	—	26952-21-6

✓

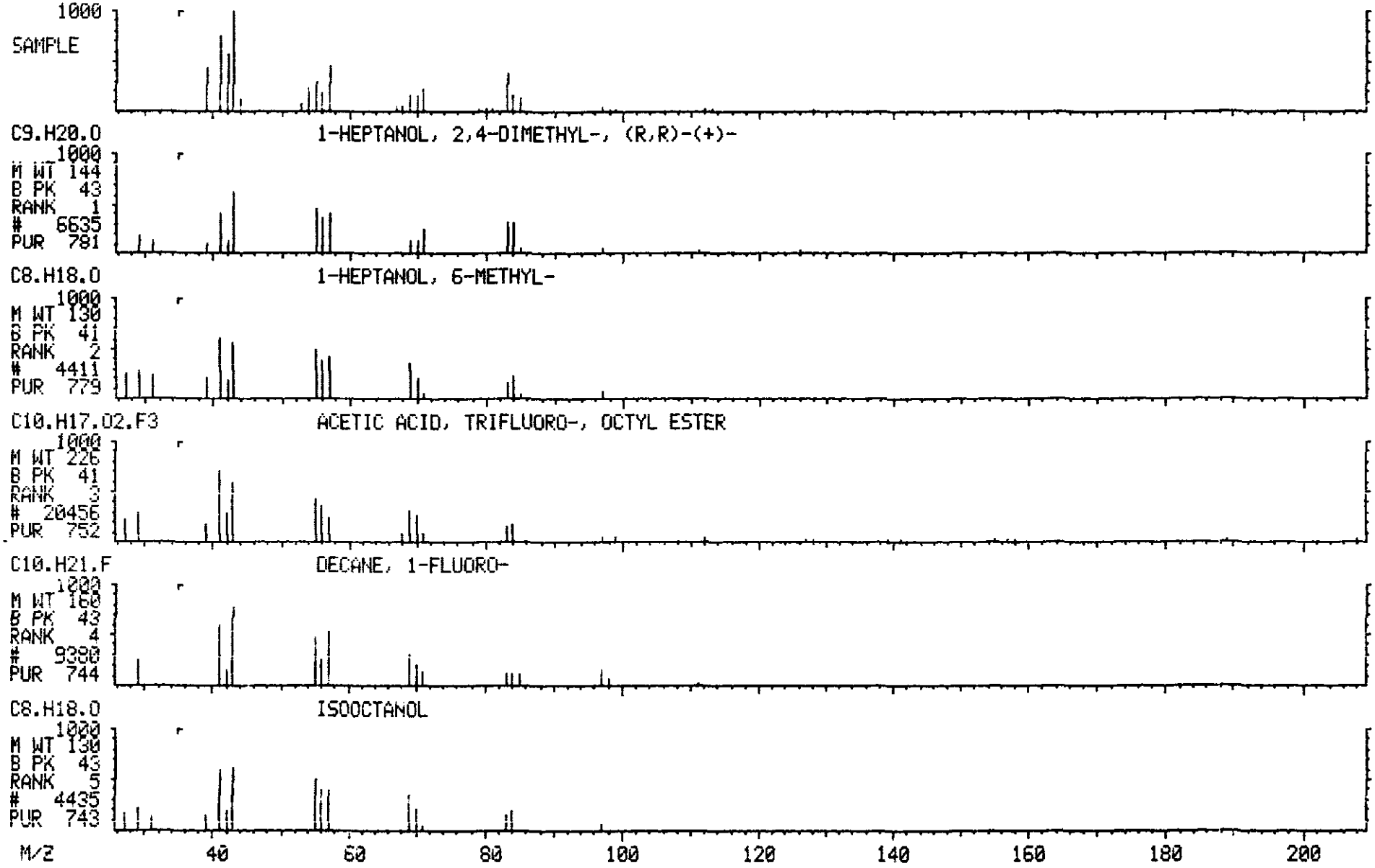
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 17:42:00 + 5:18
SAMPLE: CLP,VERSCOM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 # 318
CALI: T2731 # 2

BASE M/Z: 43
RIC: 50815.

100485



Library Search Data: T2731 # 327 Base m/z: 57
05/23/90 17:42:00 + 5:27 Cali: T2731 # 2 RIC: 24127.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL
(Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
62 matched at least 8 of the 16 largest peaks in the unknown

hyd

B

Rank	In.	Name
1	6103	HEPTANE, 4-(1-METHYLETHYL)-
2	6082	HEPTANE, 2,3,6-TRIMETHYL-
3	6081	HEPTANE, 4-PROPYL-
4	4136	HEXANE, 4-ETHYL-2-METHYL-
5	6087	OCTANE, 2,3-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22	142	57	935	971	940
2	C10.H22	142	57	923	958	923
3	C10.H22	142	57	919	950	937
4	C9.H20	128	57	916	935	916
5	C10.H22	142	57	912	947	918

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	52896-87-4
2	—	—	—	—	4032-93-3
3	—	—	—	—	3178-29-8
4	—	—	—	—	3074-75-7
5	—	—	—	—	7146-60-3

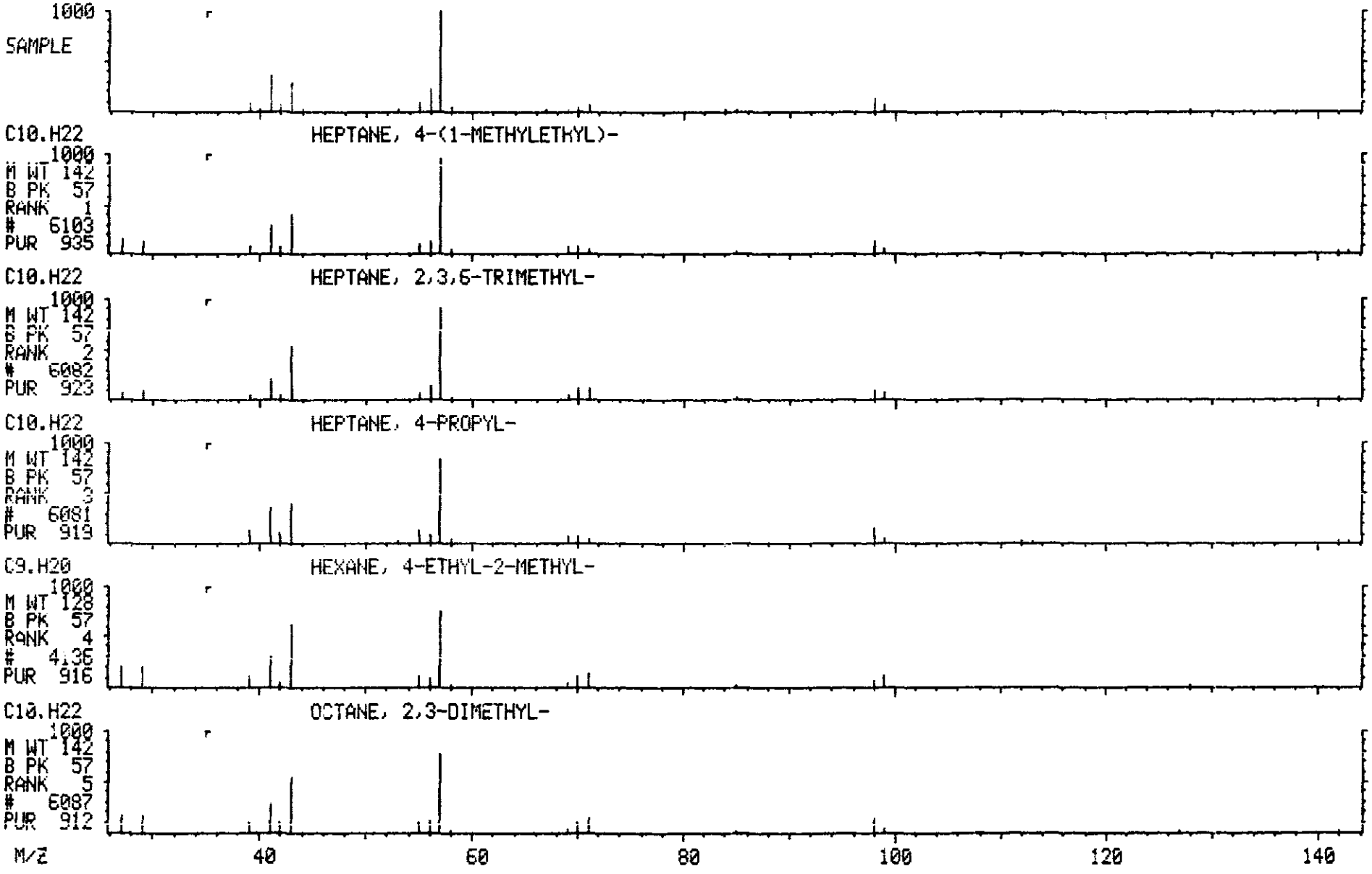
✓

LIBRARY SEARCH
05/23/90 17:42:00 + 5:27
SAMPLE: CLP,VERSCOM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 # 327
CALI: T2731 # 2

BASE M/Z: 57
RIC: 24127.

100487



ORIGINAL (Red)

Library Search Data: T2731 # 411 Base m/z: 93
05/23/90 17:42:00 + 6:51 Cali: T2731 # 2 RIC: 21695.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@6C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
50 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	5052	4-CARENE, (1S,3S,6R)-(-)-
2	5051	4-CARENE, (1S,3R,6R)-(-)-
3	5022	1,3,7-OCTATRIENE, 3,7-DIMETHYL-
4	5049	BICYCLO[3.1.1]HEPT-2-ENE, 3,6,6-TRIMETHYL-
5	5043	BICYCLO[3.1.0]HEX-2-ENE, 2-METHYL-5-(1-METHYLETHYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H16	136	93	878	993	878
2	C10.H16	136	93	876	984	876
3	C10.H16	136	93	840	936	840
4	C10.H16	136	93	836	956	836
5	C10.H16	136	93	831	943	831

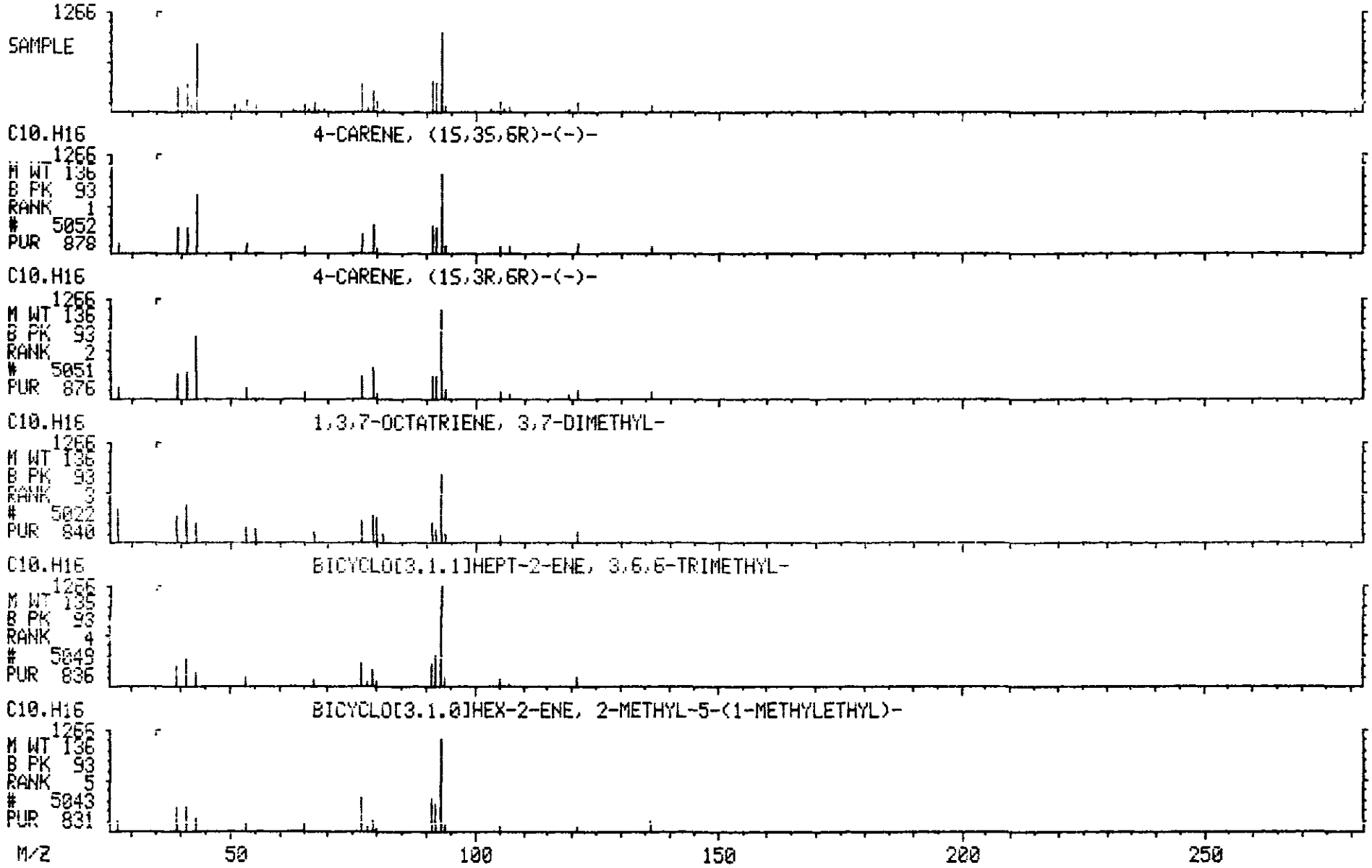
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	5208-50-4
2	—	—	—	—	5208-49-1
3	—	—	—	—	502-99-8
4	—	—	—	—	4889-83-2
5	—	—	—	—	2867-05-2

✓

LIBRARY SEARCH
05/23/90 17:42:00 + 6:51
SAMPLE: CLP,VERSCOM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 # 411
CALI: T2731 # 2

BASE M/Z: 93
RIC: 21695.



ORIGINAL (Red)

00489

ORIGINAL (Red)

Library Search Data: T2731 # 435 Base m/z:
05/23/90 17:42:00 + 7:15 Cali: T2731 # 2 RIC: 153599.
Sample: CLP,VERSCDM,2555,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N 0T)

42223 spectra in LIBRARYNB searched for maximum PURITY
274 matched at least 6 of the 16 largest peaks in the unknown

Acetone

B

Rank	In.	Name
1	2176	5-HEXEN-2-ONE, 5-METHYL-
2	2147	2(5H)-FURANONE, 5,5-DIMETHYL-
3	2183	3-HEXEN-2-ONE, 5-METHYL-
4	2165	3-PENTEN-2-ONE, 3,4-DIMETHYL-
5	2187	3-HEPTEN-2-ONE, (E)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H12.O	112	43	851	912	859
2	C6.H8.O2	112	43	845	896	905
3	C7.H12.O	112	43	766	815	766
4	C7.H12.O	112	43	682	745	682
5	C7.H12.O	112	55	677	731	707

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	3240-09-3
2	—	—	—	—	20019-64-1
3	—	—	—	—	5166-53-0
4	—	—	—	—	684-94-6
5	—	—	—	—	5609-09-6

✓

100490

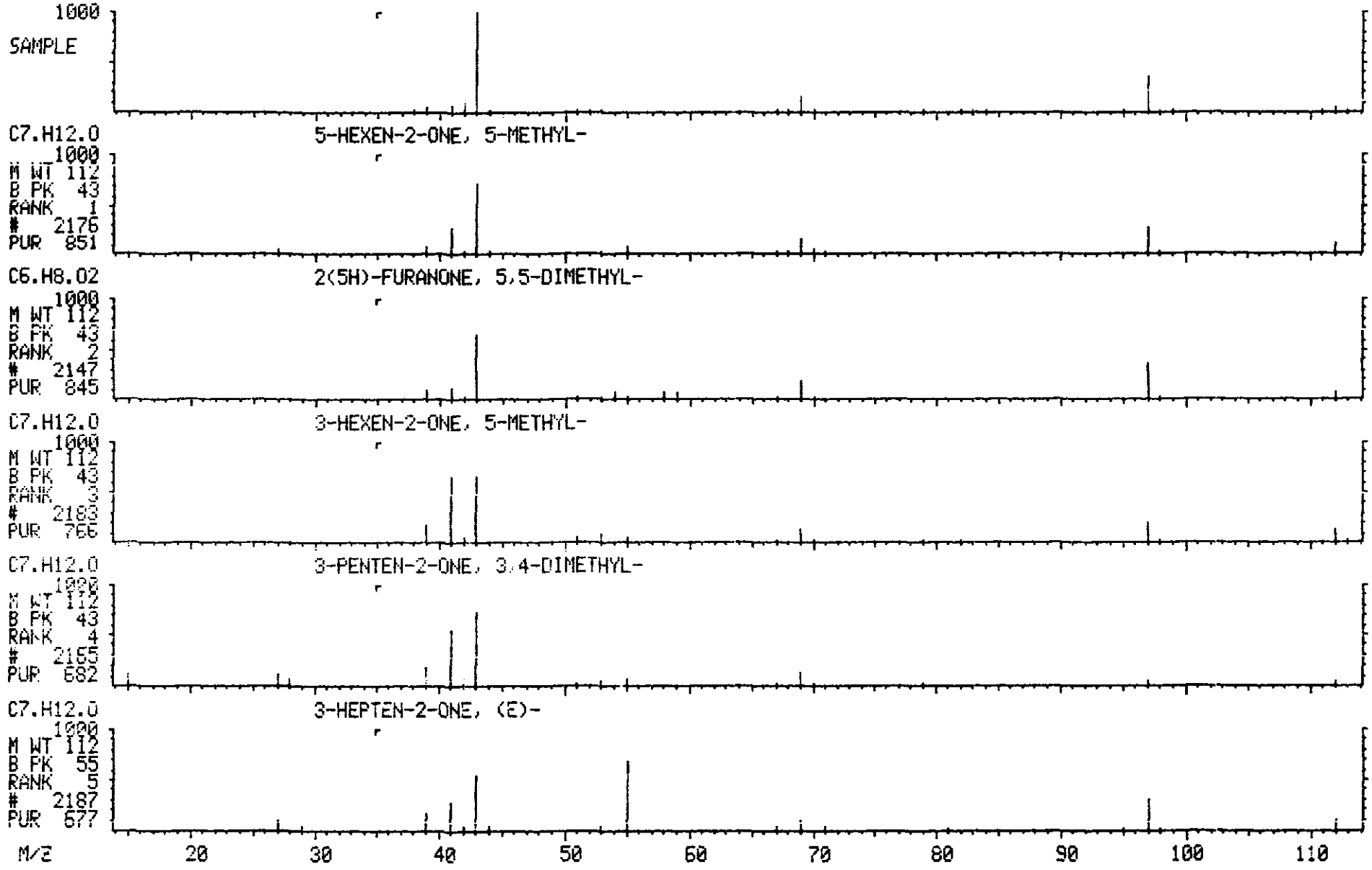
ORIGINAL (Red)

LIBRARY SEARCH
05/23/90 17:42:00 + 7:15
SAMPLE: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 # 435
CALI: T2731 # 2

BASE M/Z: 43
RIC: 153599.

100491



ORIGINAL

Library Search Data: T2731 # 447 Base m/z: 43(Rel)
05/23/90 17:42:00 + 7:27 Cali: T2731 # 2 RIC: 70143.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N 0F)

42223 spectra in LIBRARYNB searched for maximum PURITY
236 matched at least 6 of the 16 largest peaks in the unknown

Acetone

Rank	In.	Name
1	2176	5-HEXEN-2-ONE, 5-METHYL-
2	2147	2(5H)-FURANONE, 5,5-DIMETHYL-
3	2183	3-HEXEN-2-ONE, 5-METHYL-
4	2165	3-PENTEN-2-ONE, 3,4-DIMETHYL-
5	2190	5-HEPTEN-2-ONE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H12.O	112	43	855	909	866
2	C6.H8.O2	112	43	821	865	894
3	C7.H12.O	112	43	789	828	803
4	C7.H12.O	112	43	788	852	801
5	C7.H12.O	112	43	676	764	795

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	3240-09-3
2	—	—	—	—	20019-64-1
3	—	—	—	—	5166-53-0
4	—	—	—	—	684-94-6
5	—	—	—	—	6714-00-7

✓

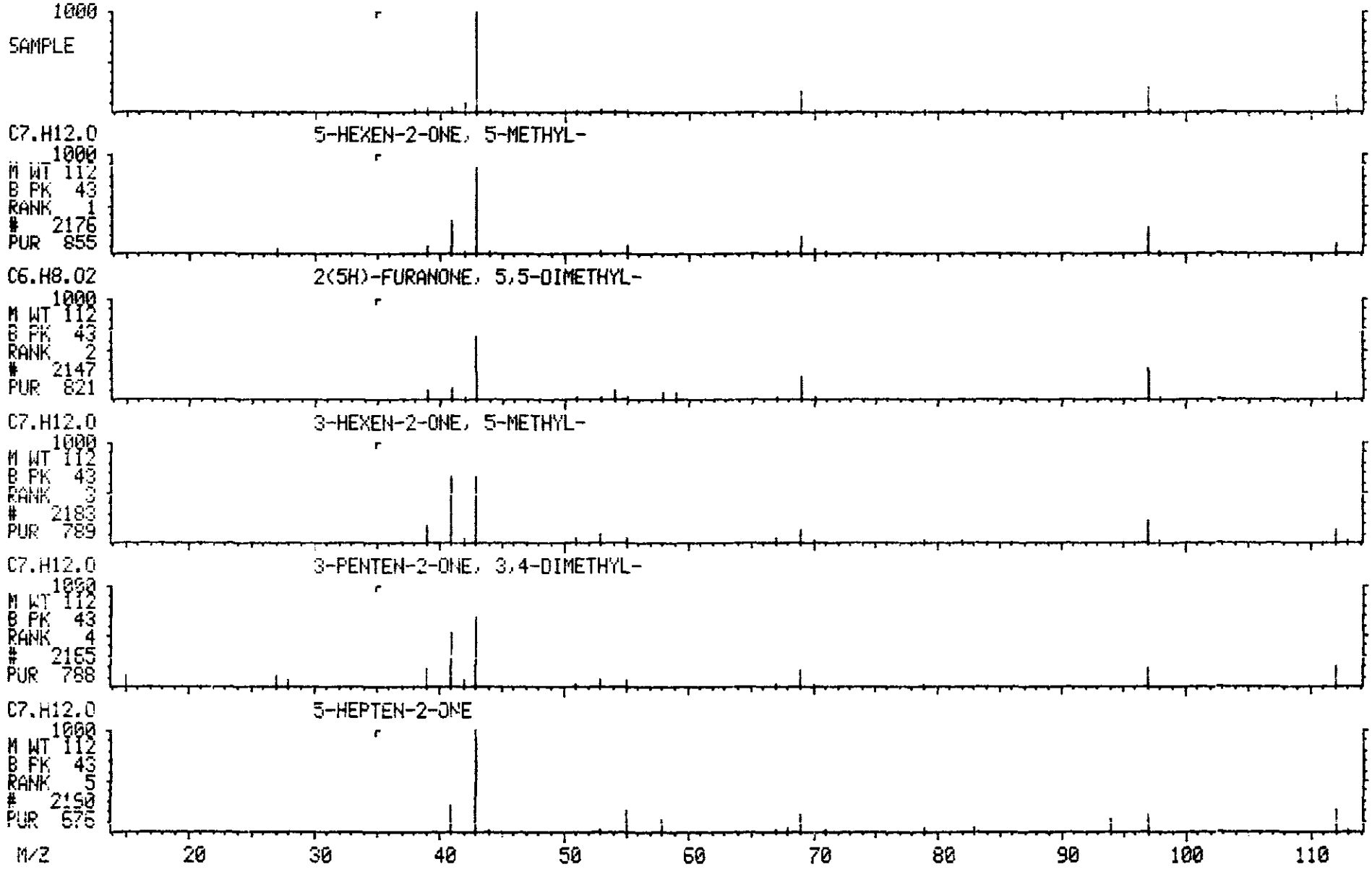
ORIGINAL (Red)

100493

LIBRARY SEARCH
05/23/90 17:42:00 + 7:27
SAMPLE: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 # 447
CALI: T2731 # 2

BASE M/Z: 43
RIC: 70143.



Library Search Data: T2731 # 489 Base m/z: 43
05/23/90 17:42:00 + 8:09 Cali: T2731 # 2 RIC: 177157
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
178 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6315	3-HEPTANONE, 2,4-DIMETHYL-
2	16936	2H-PYRAN-2,3-DIOL, TETRAHYDRO-, DIACETATE, TRANS-
3	16935	2H-PYRAN-2,3-DIOL, TETRAHYDRO-, DIACETATE, CIS-
4	1264	2,4-PENTANEDIONE
5	6321	ETHER, 3-BUTENYL PENTYL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18.O	142	43	829	933	829
2	C9.H14.O5	202	43	786	862	883
3	C9.H14.O5	202	43	769	845	885
4	C5.H8.O2	100	43	746	908	766
5	C9.H18.O	142	43	705	803	719

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	18641-71-9
2	—	—	—	—	3021-94-1
3	—	—	—	—	2396-74-9
4	—	—	—	—	123-54-6
5	—	—	—	—	34061-78-4

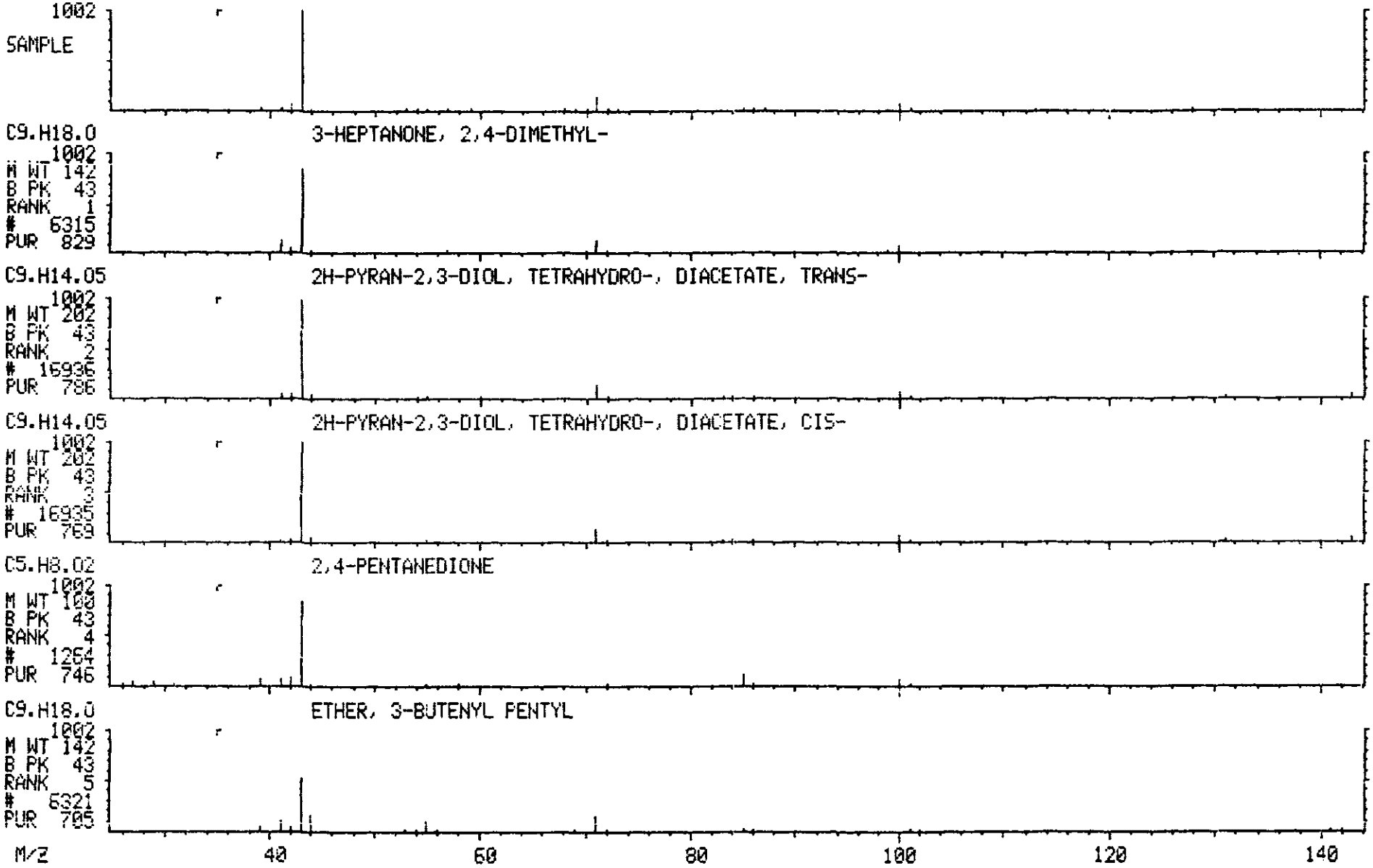
✓

100495

LIBRARY SEARCH
05/23/90 17:42:00 + 8:09
SAMPLE: CLP,VERSCDM,2565,14,L,5,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 # 489
CALI: T2731 # 2

BASE M/Z: 43
RIC: 177151.



Library Search Data: T2731 # 508 Base m/z: 43
05/23/90 17:42:00 + 8:28 Cali: T2731 # 2 RIC: 19967
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
314 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6315	3-HEPTANONE, 2,4-DIMETHYL-
2	1264	2,4-PENTANEDIONE
3	2385	BUTANOIC ACID, ETHENYL ESTER
4	6321	ETHER, 3-BUTENYL PENTYL
5	7550	PENTANE, 3-BROMO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18.O	142	43	832	911	868
2	C5.H8.O2	100	43	739	885	775
3	C6.H10.O2	114	43	682	813	721
4	C9.H18.O	142	43	675	763	755
5	C5.H11.BR	150	43	665	805	715

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	18641-71-9
2	—	—	—	—	123-54-6
3	—	—	—	—	123-20-6
4	—	—	—	—	34061-78-4
5	—	—	—	—	1809-10-5

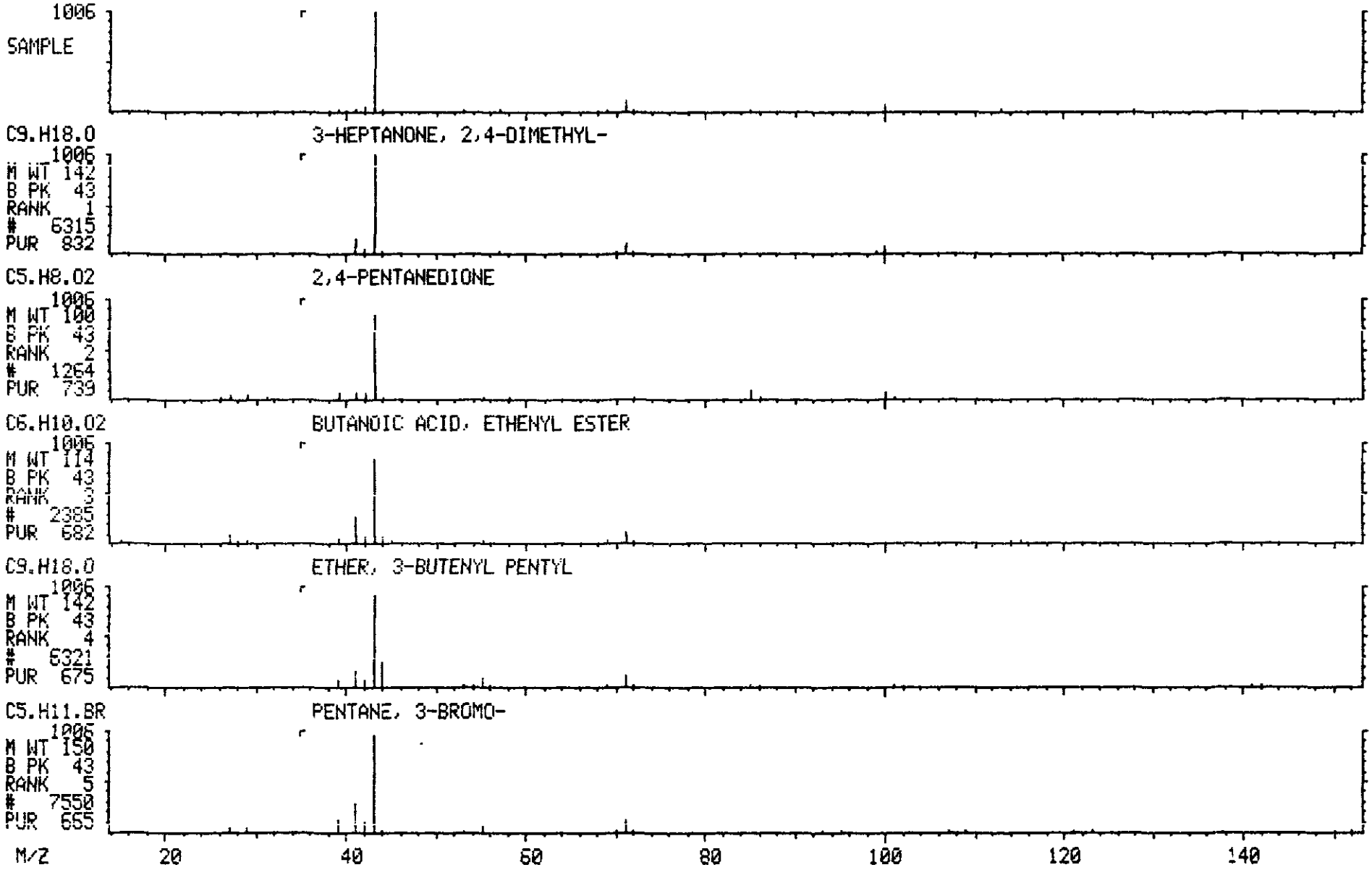
✓

LIBRARY SEARCH
05/23/90 17:42:00 + 8:28
SAMPLE: CLP,VERSCOM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 # 508
CALI: T2731 # 2

BASE M/Z: 43
RIC: 19967.

100497



ORIGINAL (Red)

Library Search Data: T2731 # 564 Base m/z: 43
05/23/90 17:42:00 + 9:24 Cali: T2731 # 2 RIC: 149503.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
128 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1590	1,2-ETHANEDIOL, MONOACETATE
2	613	ETHANONE, 1-OXIRANYL-
3	2875	BUTANOIC ACID, 3-HYDROXY-, METHYL ESTER
4	6936	HEXANOIC ACID, HYDROXY-, METHYL ESTER
5	6867	1,2-ETHANEDIOL, DIACETATE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C4.H8.O3	104	43	678	950	678
2	C4.H6.O2	86	43	644	882	655
3	C5.H10.O3	118	43	608	744	687
4	C7.H14.O3	146	43	577	703	694
5	C6.H10.O4	146	43	550	770	652

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	542-59-6
2	—	—	—	—	4401-11-0
3	—	—	—	—	1487-49-6
4	—	—	—	—	59942-11-9
5	—	—	—	—	111-55-7

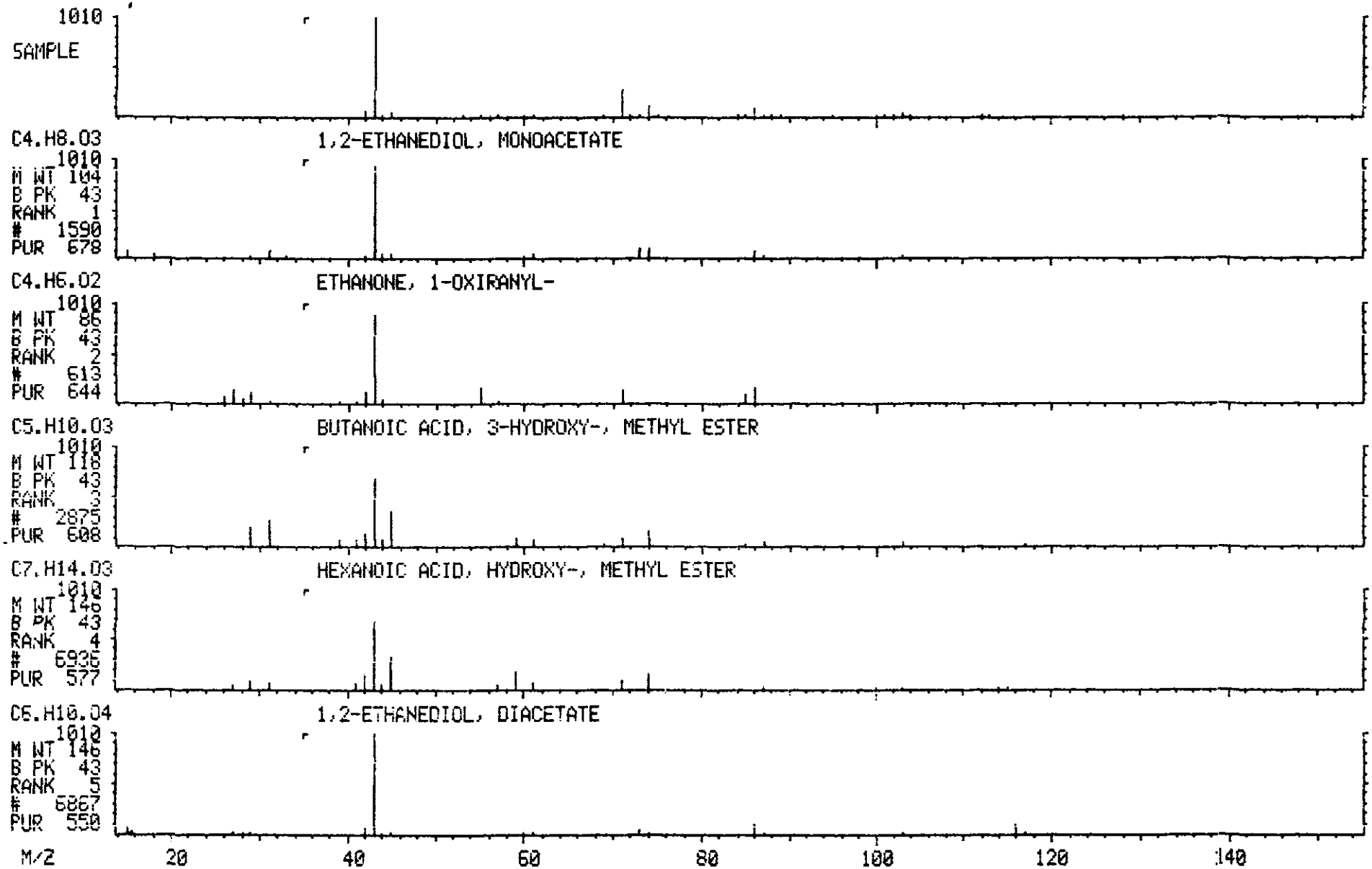
✓

LIBRARY SEARCH
05/23/90 17:42:00 + 9:24
SAMPLE: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 # 564
CALI: T2731 # 2

BASE M/Z: 43
RIC: 149503.

100499



Library Search Data: T2731 # 996 Base m/z: 41
05/23/90 17:42:00 + 16:36 Cali: T2731 # 2 RIC: 17503.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
66 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	17158	CARYOPHYLLENE (VAN)
2	17205	BICYCLO[7.2.0]UNDEC-4-ENE, 4,11,11-TRIMETHYL-8-METHYLENE-
3	19917	2,6,10-DODECATRIEN-1-OL, 3,7,11-TRIMETHYL-, (E,E)-
4	17215	1,6,10-DODECATRIENE, 7,11-DIMETHYL-3-METHYLENE-, (E)-
5	17229	1,6,10-DODECATRIENE, 7,11-DIMETHYL-3-METHYLENE-, (Z)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H24	204	41	777	982	787
2	C15.H24	204	41	711	979	713
3	C15.H26.O	222	41	670	931	683
4	C15.H24	204	41	669	941	674
5	C15.H24	204	41	662	933	662

Rank	Ret.Time	R.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	87-44-5
2	—	—	—	—	13877-93-5
3	—	—	—	—	106-28-5
4	—	—	—	—	18794-84-8
5	—	—	—	—	28973-97-9

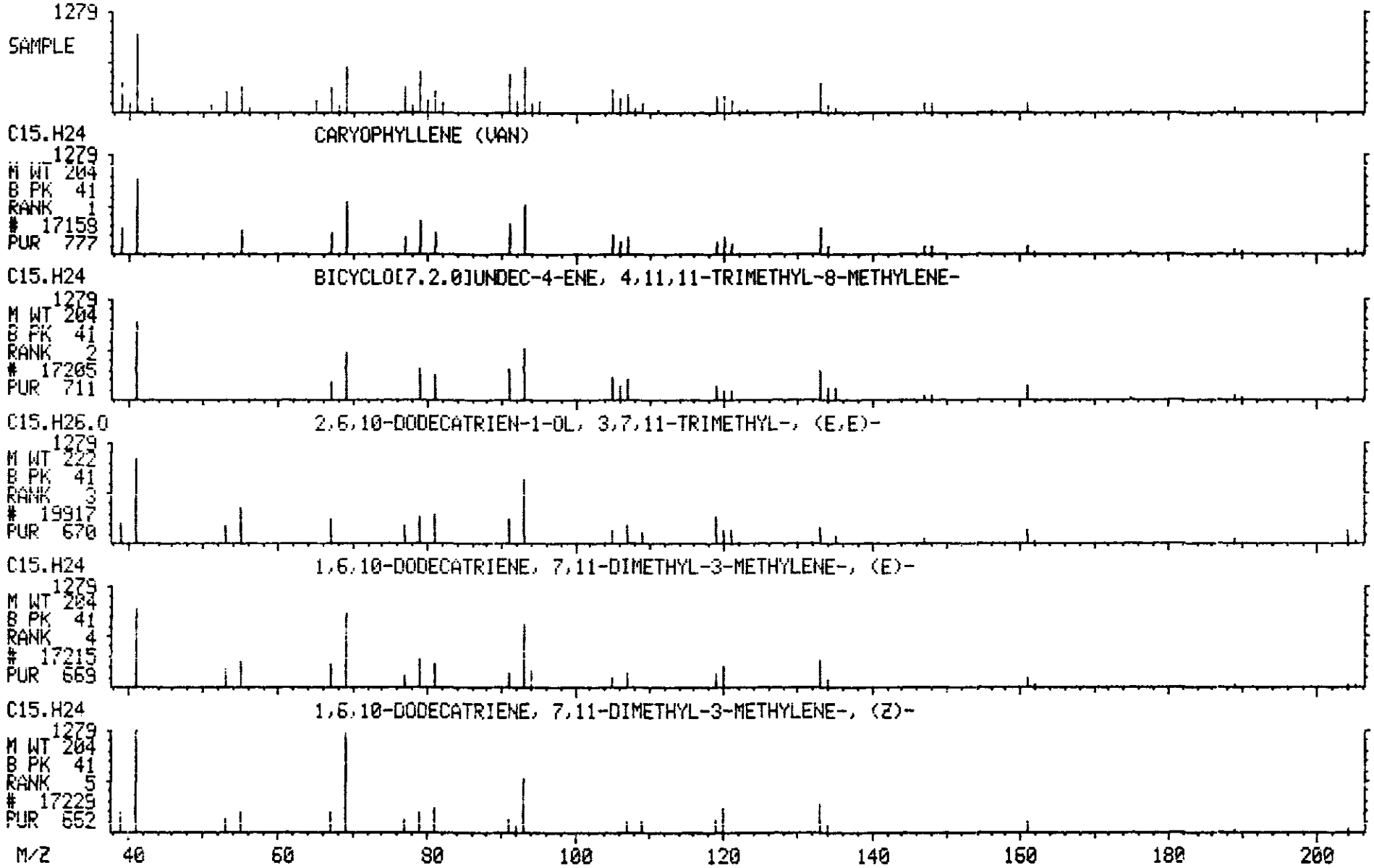
✓

LIBRARY SEARCH
05/23/90 17:42:00 + 16:36
SAMPLE: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4.1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 # 996
CALI: T2731 # 2

BASE M/Z: 41
RIC: 17503.

100501



Library Search Data: T2731 #1017 Base m/z: 41
05/23/90 17:42:00 + 16:57 Cali: T2731 # 2 RIC: 21759.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
63 matched at least 7 of the 16 largest peaks in the unknown

Rank	In	Name
1	17229	1,6,10-DODECATRIENE, 7,11-DIMETHYL-3-METHYLENE-, (Z)-
2	17215	1,6,10-DODECATRIENE, 7,11-DIMETHYL-3-METHYLENE-, (E)-
3	17158	CARYOPHYLLENE (VAN)
4	17227	1,3,6,10-DODECATETRAENE, 3,7,11-TRIMETHYL-, (Z,E)-
5	19933	1,6,10-DODECATRIEN-3-OL, 3,7,11-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H24	204	41	810	992	810
2	C15.H24	204	41	784	977	792
3	C15.H24	204	41	763	932	782
4	C15.H24	204	41	716	882	722
5	C15 H26.O	222	69	688	921	723

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	28973-97-9
2	—	—	—	—	18794-84-8
3	—	—	—	—	87-44-5
4	—	—	—	—	26560-14-5
5	—	—	—	—	7212-44-4

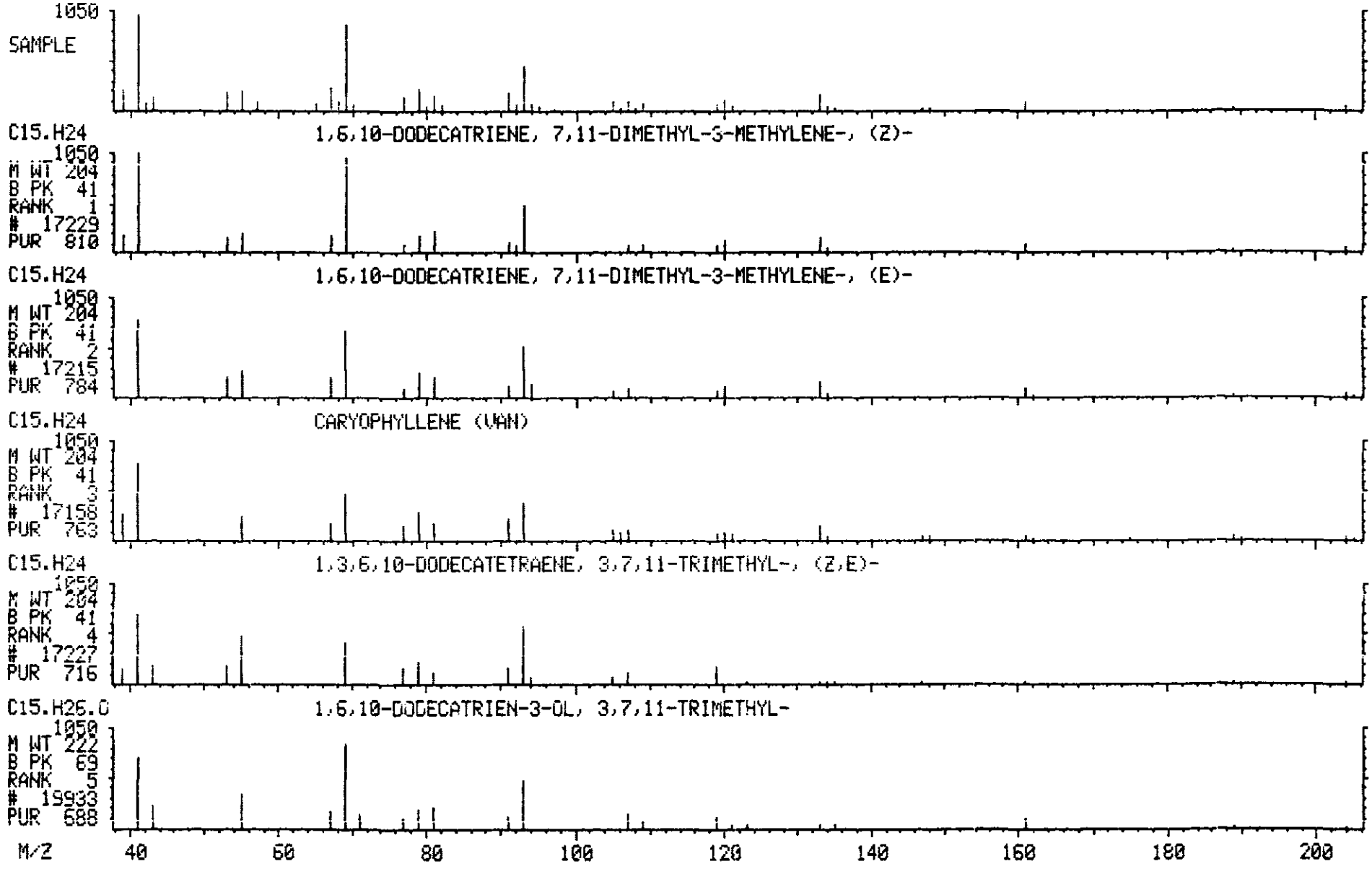
✓

LIBRARY SEARCH
05/23/90 17:42:00 + 16:57
SAMPLE: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #1017
CALI: T2731 # 2

BASE M/Z: 41
RIC: 21759.

100503



Library Search Data: T2731 #1050 Base m/z: 119
05/23/90 17:42:00 + 17:30 Cali: T2731 # 2 RIC: 34943.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
143 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	17234	NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1-(1-*
2	17231	NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1-(1-*
3	17194	COPAENE
4	17213	.ALPHA.-CUBEBENE
5	17206	YLANGENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H24	204	41	689	978	689
2	C15.H24	204	41	683	981	683
3	C15.H24	204	119	673	977	673
4	C15.H24	204	105	664	977	664
5	C15.H24	204	119	656	977	656

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	39029-41-9
2	—	—	—	—	30021-74-0
3	—	—	—	—	3856-25-5
4	—	—	—	—	17699-14-8
5	—	—	—	—	14912-44-8

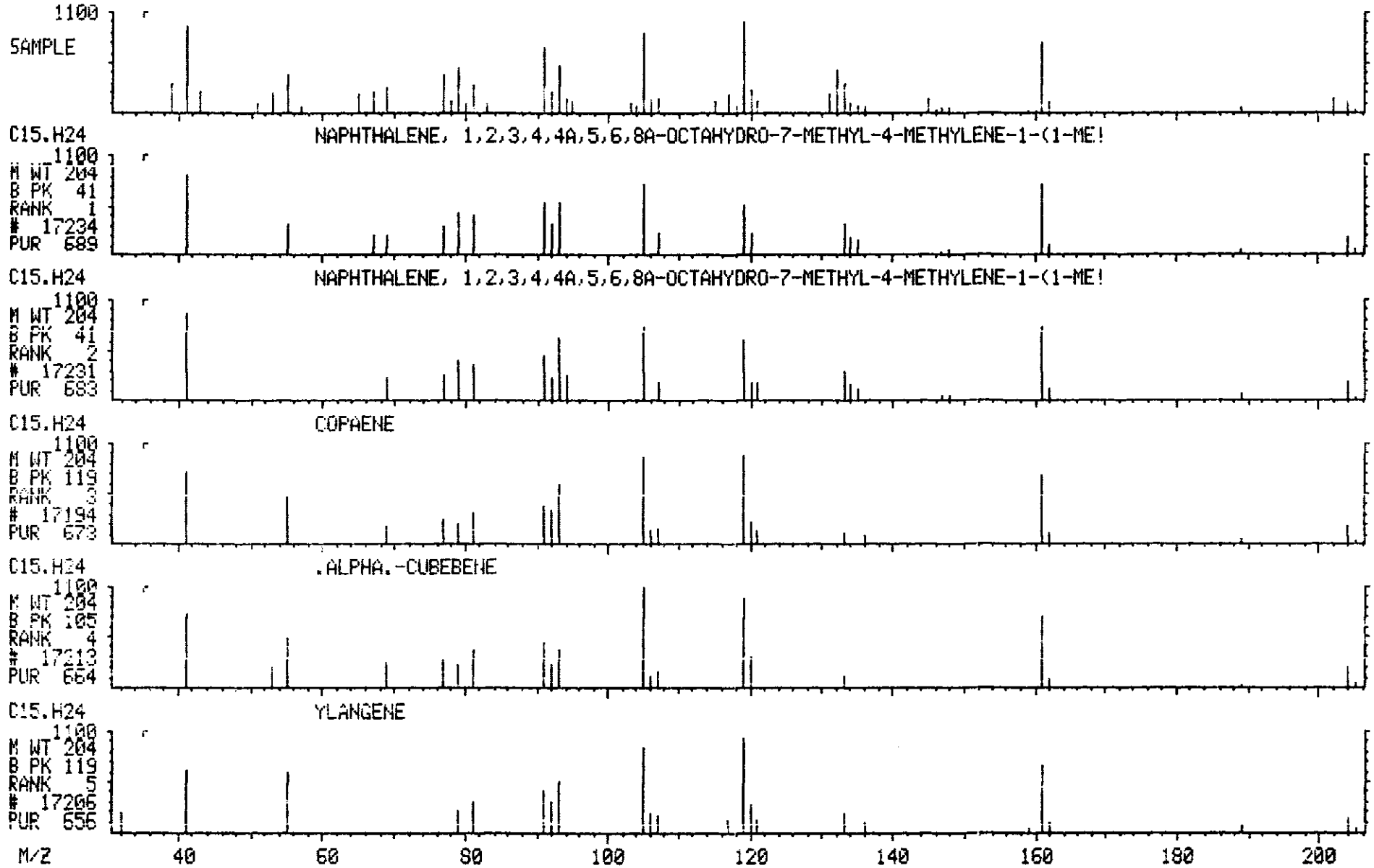
✓

LIBRARY SEARCH
05/23/90 17:42:00 + 17:30
SAMPLE: CLP,VERSCDM,2565,14,L,S,16916,B,,420,1,0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #1050
CALI: T2731 # 2

BASE M/Z: 119
RIC: 34943.

100505



Library Search Data: T2731 #1089 Base m/z: 161
05/23/90 17:42:00 + 18:09 Cali: T2731 # 2 RIC: 18815
Sample: CLP,VERSCDM,2565,14.L,S,16916,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
70 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	17234	NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1-(1-*
2	17231	NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1-(1-*
3	17204	1H-CYCLOPENTA[1,3]CYCLOPROPA[1,2]BENZENE, OCTAHYDRO-7-METHYL-3-METH*
4	17194	COPAENE
5	17210	1H-CYCLOPROPA[A]NAPHTHALENE, 1A,2,3,5,6,7,7A,7B-OCTAHYDRO-1,1,7,7A-*

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H24	204	161	808	994	808
2	C15.H24	204	161	805	990	805
3	C15.H24	204	161	753	977	753
4	C15.H24	204	161	752	961	752
5	C15.H24	204	161	751	929	765

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	39029-41-9
2	—	—	—	—	30021-74-0
3	—	—	—	—	13744-15-5
4	—	—	—	—	3856-25-5
5	—	—	—	—	17334-55-3

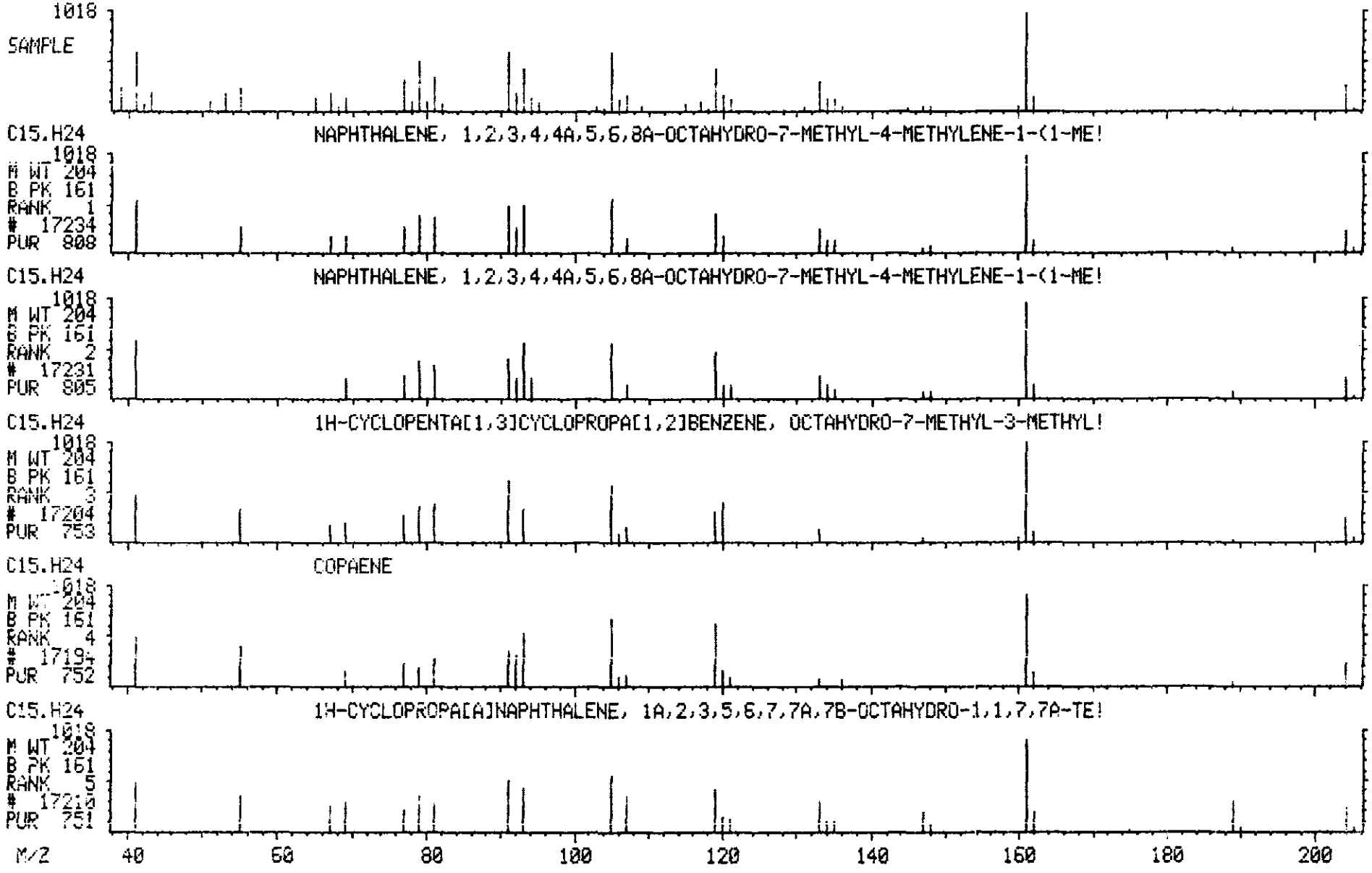
✓

100507

LIBRARY SEARCH
05/23/90 17:42:00 + 18:09
SAMPLE: CLP,VERSCDM,2565,14,L,5,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #1089
CALI: T2731 # 2

BASE M/Z: 161
RIC: 18815.



Library Search Data: T2731 #1235 Base m/z: 91
05/23/90 17:42:00 + 20:35 Cali: T2731 # 2 RIC: 24095.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
78 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	8942	1H-PYRROLE, 1-(PHENYLMETHYL)-
2	29307	INDOLE, 3-[(BENZYLSELENYL)METHYL]-
3	11813	BENZENE, 3-HEPTYNYL-
4	12060	2-OXATRICYCLO[5.5.0.04,10]DODECA-5,8,11-TRIEN-3-ONE
5	4244	BENZENE, (METHYLENECYCLOPROPYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H11.N	157	91	546	797	584
2	C16.H15.N.SE	301	91	510	783	584
3	C13.H16	172	91	499	727	674
4	C11.H10.O2	174	129	497	733	497
5	C10.H10	130	129	479	693	487

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	2051-97-0
2	—	—	—	—	21903-67-3
3	—	—	—	—	56293-04-0
4	—	—	—	—	56909-26-3
5	—	—	—	—	29817-09-2

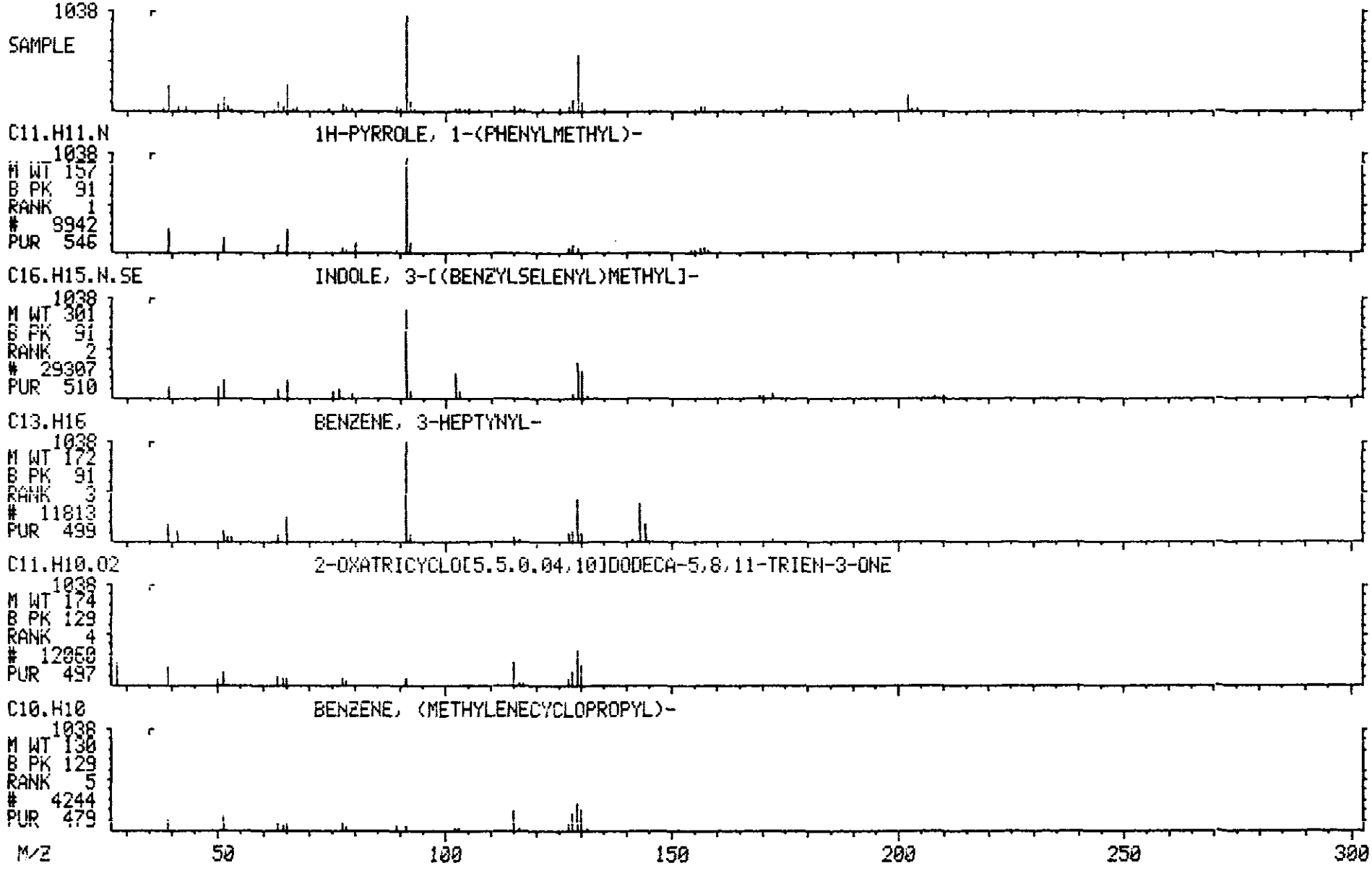
✓

100509

LIBRARY SEARCH
05/23/90 17:42:00 + 20:35
SAMPLE: CLP,VERSCOM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #1235
CALI: T2731 # 2

BASE M/Z: 91
RIC: 24095.



Library Search Data: T2731 #1818 Base m/z: 91
05/23/90 17:42:00 + 30:18 Cali: T2731 # 2 RIC: 69887.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
177 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	33796	PREGNA-5,16-DIEN-20-ONE, 3-(ACETYLOXY)-, (3.BETA.)-
2	30568	PREGNA-4,6-DIEN-3-ONE, 20-HYDROXY-, (20S)-
3	34978	PREGN-5-EN-20-ONE, 3-(ACETYLOXY)-17-HYDROXY-, (3.BETA.)-
4	34984	PREGN-5-EN-20-ONE, 3,17-DIHYDROXY-, MONOACETATE, (3.BETA.)-
5	28749	2-BENZIMIDAZOLINONE, 1-BENZYL-5-BUTOXY-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C23.H32.O3	356	43	333	772	371
2	C21.H30.O2	314	296	320	561	407
3	C23.H34.O4	374	296	290	717	371
4	C23.H34.O4	374	296	290	717	371
5	C18.H20.O2.N2	296	91	288	749	288

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	979-02-2
2	—	—	—	—	15271-87-1
3	—	—	—	—	1863-39-4
4	—	—	—	—	56273-07-5
5	—	—	—	—	28643-56-3

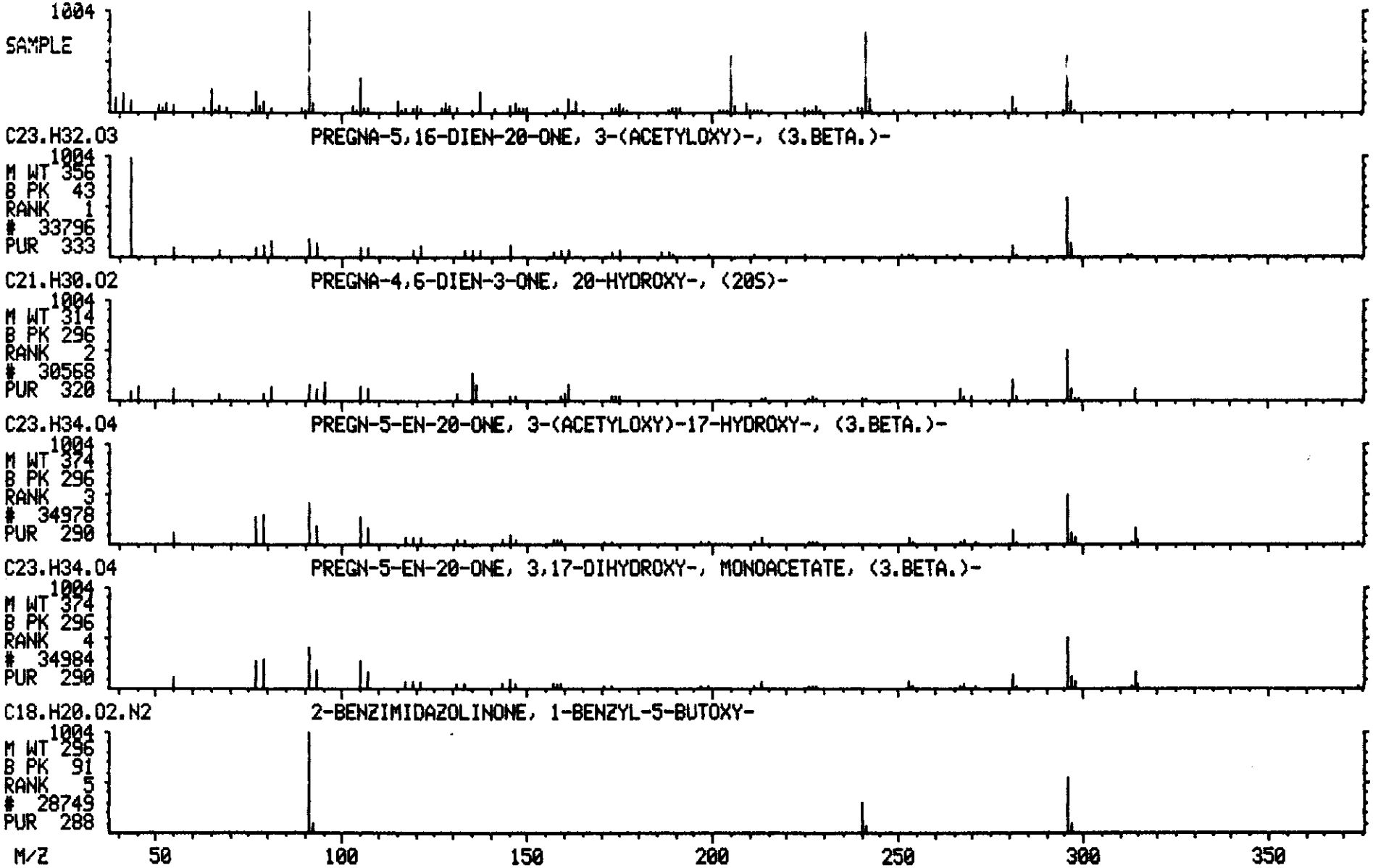
✓

LIBRARY SEARCH
05/23/90 17:42:00 + 30:18
SAMPLE: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #1818
CALI: T2731 # 2

BASE M/Z: 91
RIC: 69887.

100511



Library Search Data: T2731 #1835 Base m/z: 57
05/23/90 17:42:00 + 30:35 Cali: T2731 # 2 RIC: 34623.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
269 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	24472	1-HEPTADECANOL
2	33536	PENTACOSANE
3	39944	HEXATRIACONTANE
4	14250	1-OCTANOL, 2-BUTYL-
5	23946	3-OCTADECENE, (E)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C17.H36.O	256	43	719	933	725
2	C25.H52	352	43	713	901	758
3	C36.H74	506	57	708	928	742
4	C12.H26.O	186	57	700	974	700
5	C18.H36	252	41	694	923	706

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	1454-85-9
2	—	—	—	—	629-99-2
3	—	—	—	—	630-06-8
4	—	—	—	—	3913-02-8
5	—	—	—	—	7206-19-1

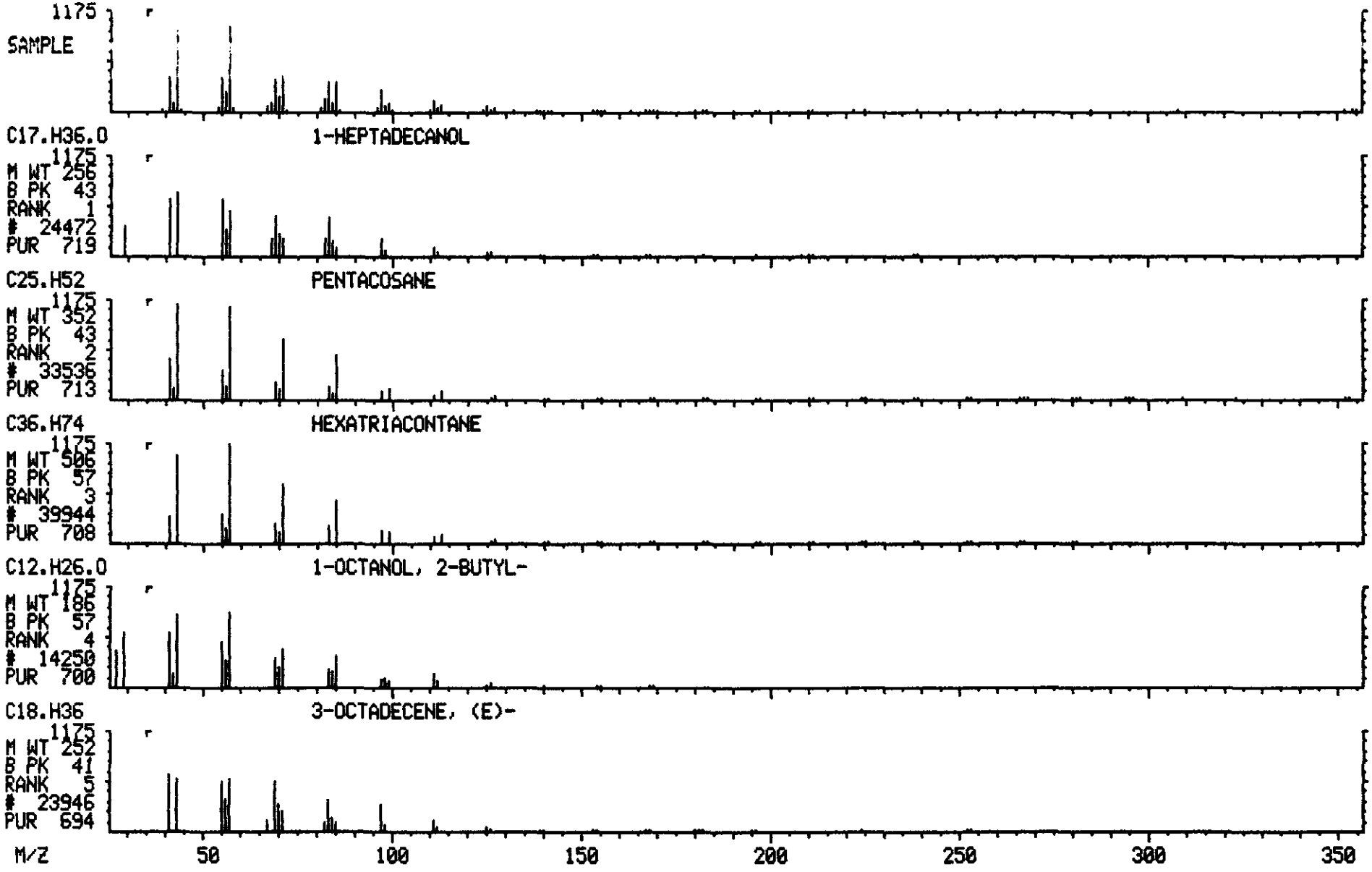
✓

100513

LIBRARY SEARCH
05/23/90 17:42:00 + 30:35
SAMPLE: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #1835
CALI: T2731 # 2

BASE M/Z: 57
RIC: 34623.



Library Search Data: T2731 #1951 Base m/z: 57 ORIGINAL (Red)
05/23/90 17:42:00 + 32:31 Cali: T2731 # 2 RIC: 72575.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
226 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	33536	PENTACOSANE
2	35266	HEPTACOSANE
3	39695	PENTATRIACONTANE
4	34470	HEXACOSANE
5	39944	HEXATRIACONTANE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C25.H52	352	43	826	974	840
2	C27.H56	380	57	807	975	823
3	C35.H72	492	57	802	988	806
4	C26.H54	366	57	801	961	828
5	C36.H74	506	57	801	992	801

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	629-99-2
2	—	—	—	—	593-49-7
3	—	—	—	—	630-07-9
4	—	—	—	—	630-01-3
5	—	—	—	—	630-06-8

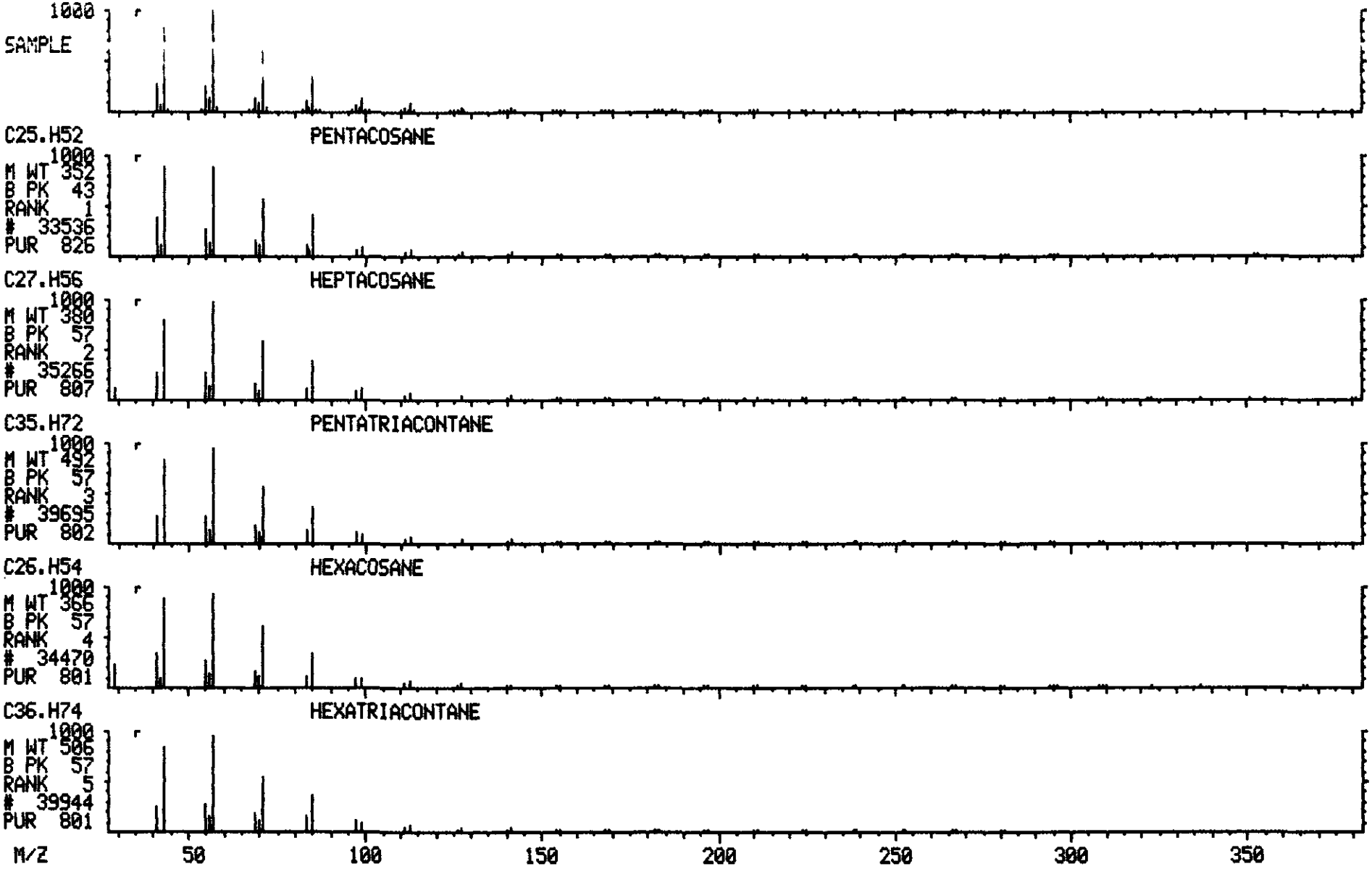
✓

LIBRARY SEARCH
05/23/90 17:42:00 + 32:31
SAMPLE: CLP,VERSCOM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #1951
CALI: T2731 # 2

BASE M/Z: 57
RIC: 72575.

100515



Library Search Data: T2731 #2010 Base m/z: 59
05/23/90 17:42:00 + 33:30 Cali: T2731 # 2 RIC: 38783.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
138 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	27222	9-OCTADECENAMIDE, (Z)-
2	9014	NONANAMIDE
3	11606	HEPTANAMIDE, 4-ETHYL-5-METHYL-
4	2597	PENTANAMIDE, 4-METHYL-
5	9508	HEPTANEDIOIC ACID

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H35.O.N	281	59	446	808	534
2	C9.H19.O.N	157	59	434	846	458
3	C10.H21.O.N	171	59	414	817	459
4	C6.H13.O.N	115	59	410	841	443
5	C7.H12.O4	160	55	409	753	415

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	301-02-0
2	—	—	—	—	1120-07-6
3	—	—	—	—	54789-40-1
4	—	—	—	—	1119-29-5
5	—	—	—	—	111-16-0

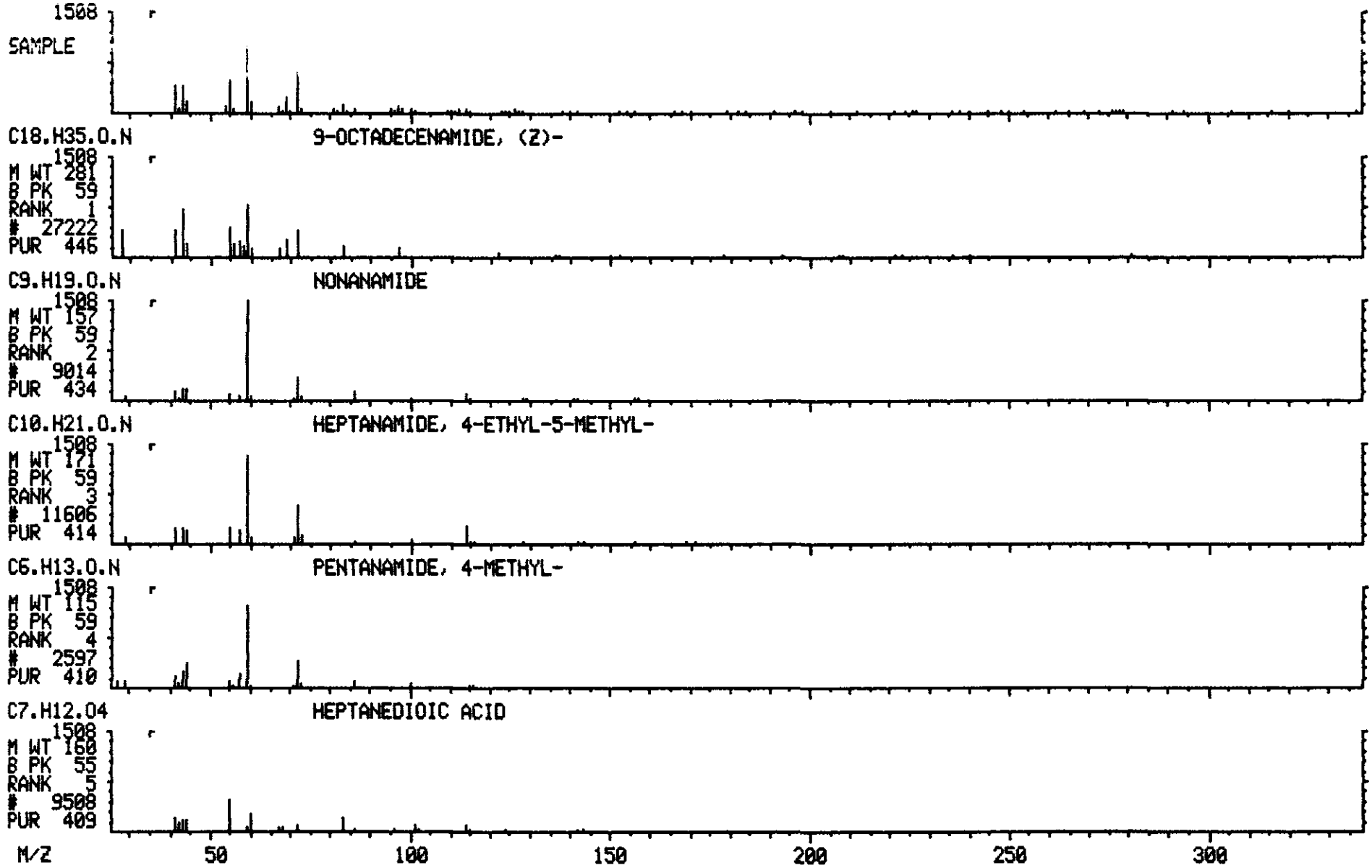
100516

100517

LIBRARY SEARCH
05/23/90 17:42:00 + 33:30
SAMPLE: CLP,VERSCOM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #2010
CALI: T2731 # 2

BASE M/Z: 59
RIC: 38783.



Library Search Data: T2731 #2075 Base m/z: 57
05/23/90 17:42:00 + 34:35 Cali: T2731 # 2 RIC: 178431.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
185 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	33536	PENTACOSANE
2	39695	PENTATRIACONTANE
3	34470	HEXACOSANE
4	39944	HEXATRIACONTANE
5	35266	HEPTACOSANE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C25.H52	352	43	830	980	842
2	C35.H72	492	57	813	995	813
3	C26.H54	366	57	810	965	835
4	C36.H74	506	57	802	994	802
5	C27.H56	380	57	798	963	827

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	629-99-2
2	—	—	—	—	630-07-9
3	—	—	—	—	630-01-3
4	—	—	—	—	630-06-8
5	—	—	—	—	593-49-7

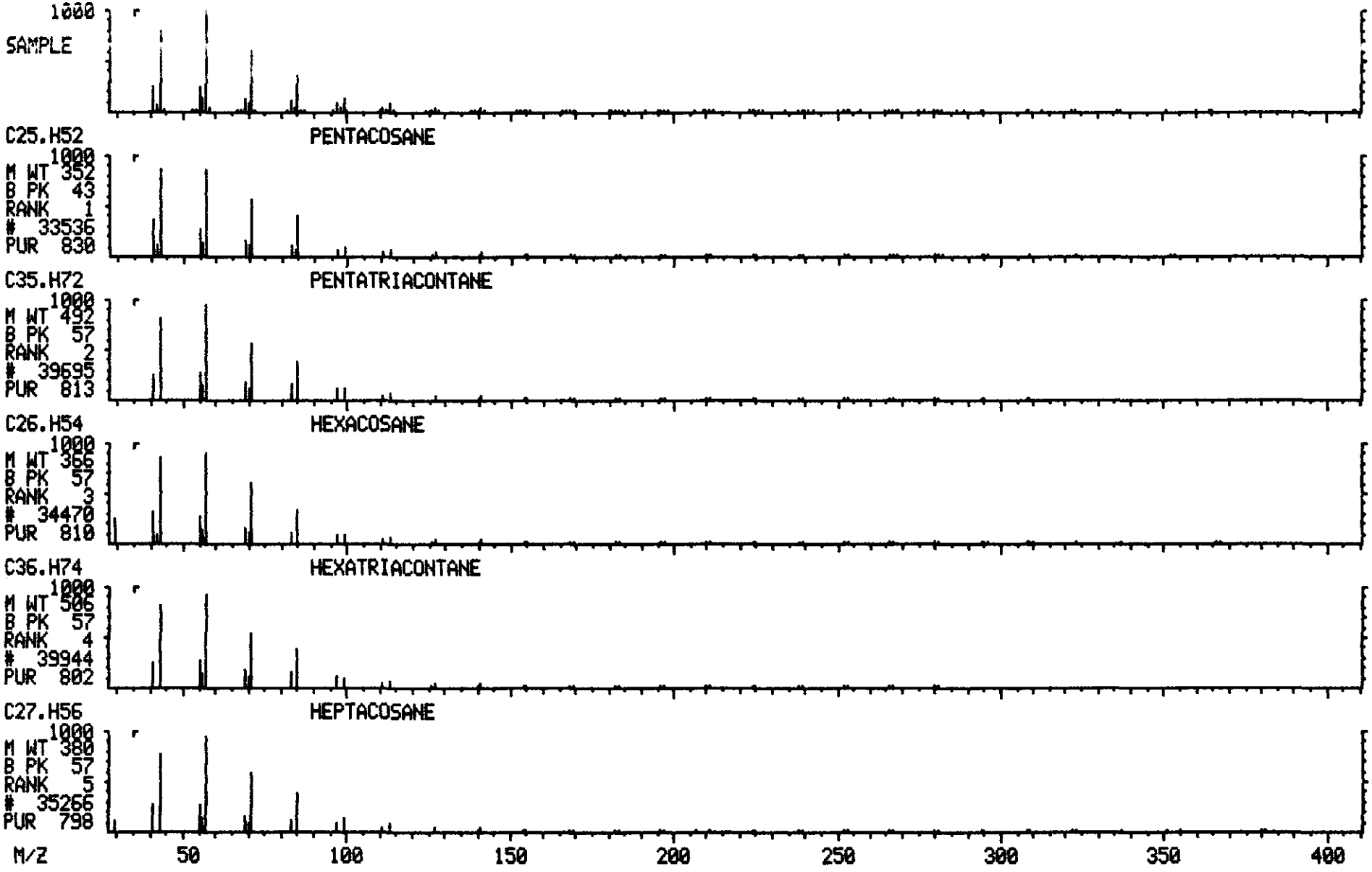
✓

LIBRARY SEARCH
05/23/90 17:42:00 + 34:35
SAMPLE: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #2075
CALI: T2731 # 2

BASE M/Z: 57
RIC: 178431.

100519



Library Search Data: T2731 #2109 Base m/z: 241
05/23/90 17:42:00 + 35:09 Cali: T2731 # 2 RIC: 27007.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42222 spectra in LIBRARYNB searched for maximum PURITY
70 matched at least 4 of the 16 largest peaks in the unknown

Rank	In.	Name
1	17239	BENZENE, (1-METHYL-1-PROPYLPENTYL)-
2	17184	2H-2,4A-METHANONAPHTHALENE, 1,3,4,5,6,7-HEXAHYDRO-1,1,5,5-TETRAMETH*
3	22672	INDOLO[2,3-A]QUINOLIZIN-2-OL, 1,2,3,4,6,7,12,12B-OCTAHYDRO-, TRANS-
4	22673	INDOLO[2,3-A]QUINOLIZIN-2-OL, 1,2,3,4,6,7,12,12B-OCTAHYDRO-, CIS-
5	17241	TRICYCLO[4.1.0.02,4]HEPTANE, 3,3,7,7-TETRAMETHYL-5-(2-METHYL-1-PROP*

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H24	204	105	192	832	206
2	C15.H24	204	41	187	733	213
3	C15.H18.O.N2	242	241	178	743	212
4	C15.H18.O.N2	242	242	175	730	206
5	C15.H24	204	105	171	699	211

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	54932-91-1
2	—	—	—	—	1135-66-6
3	—	—	—	—	51598-43-7
4	—	—	—	—	51598-47-1
5	—	—	—	—	56348-21-1

✓

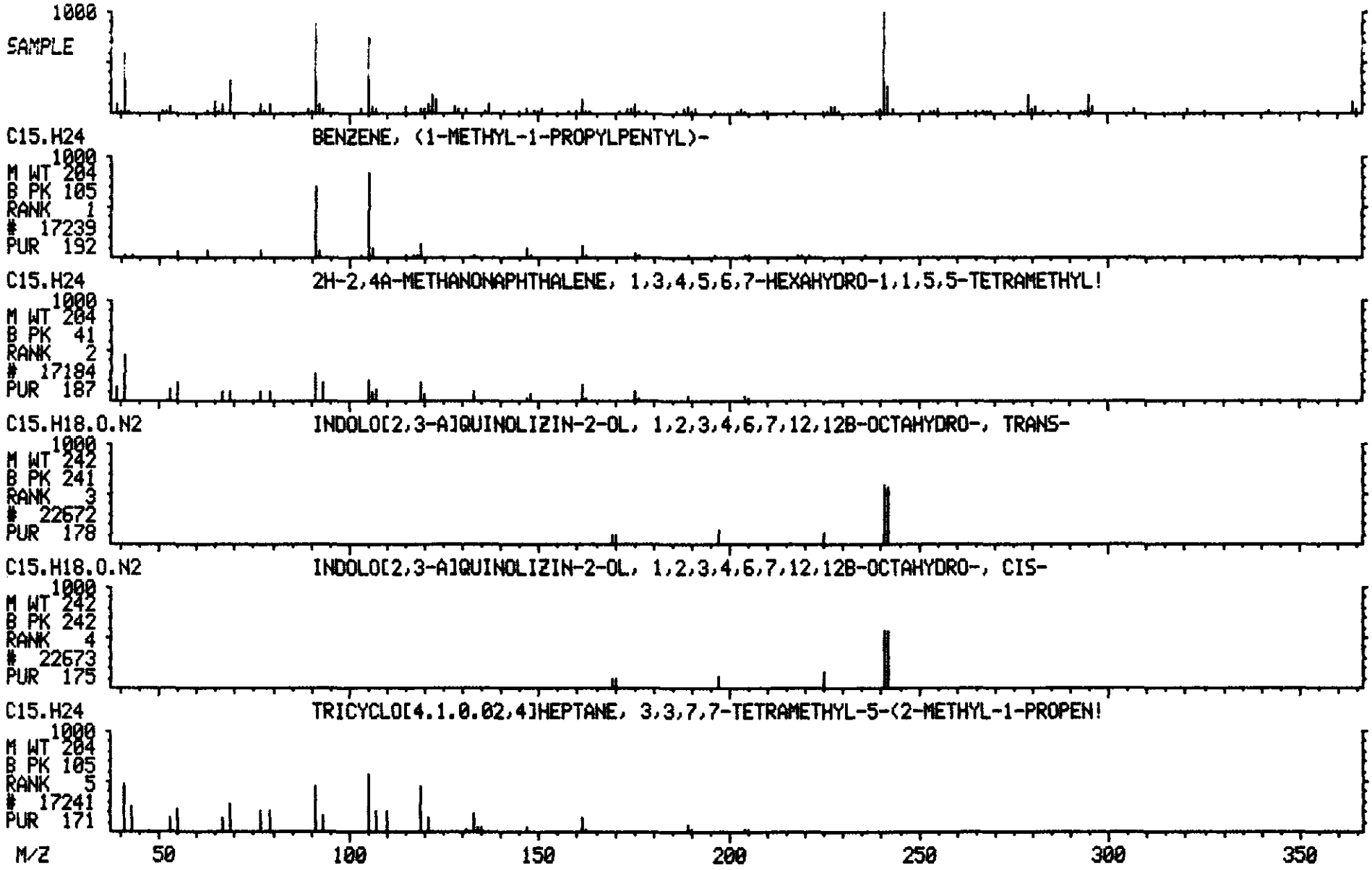
100520

LIBRARY SEARCH
05/23/90 17:42:00 + 35:09
SAMPLE: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #2109
CALI: T2731 # 2

BASE M/Z: 241
RIC: 27007.

100521



Library Search Data: T2731 #2200 Base m/z: 43
05/23/90 17:42:00 + 36:40 Cali: T2731 # 2 RIC: 51711.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
108 matched at least 8 of the 16 largest peaks in the unknown

aldehyde

Rank	In.	Name
1	25849	OCTADECANAL
2	22445	HEXADECANAL (ACN)
3	18505	TETRADECANAL (ACN)
4	16241	TRIDECANAL
5	26955	1-EICOSYNE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H36.O	268	43	745	979	755
2	C16.H32.O	240	43	726	981	733
3	C14.H28.O	212	57	694	982	701
4	C13.H26.O	198	57	679	982	679
5	C20.H38	278	43	674	929	695

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	638-66-4
2	—	—	—	—	629-80-1
3	—	—	—	—	124-25-4
4	—	—	—	—	10486-19-8
5	—	—	—	—	765-27-5

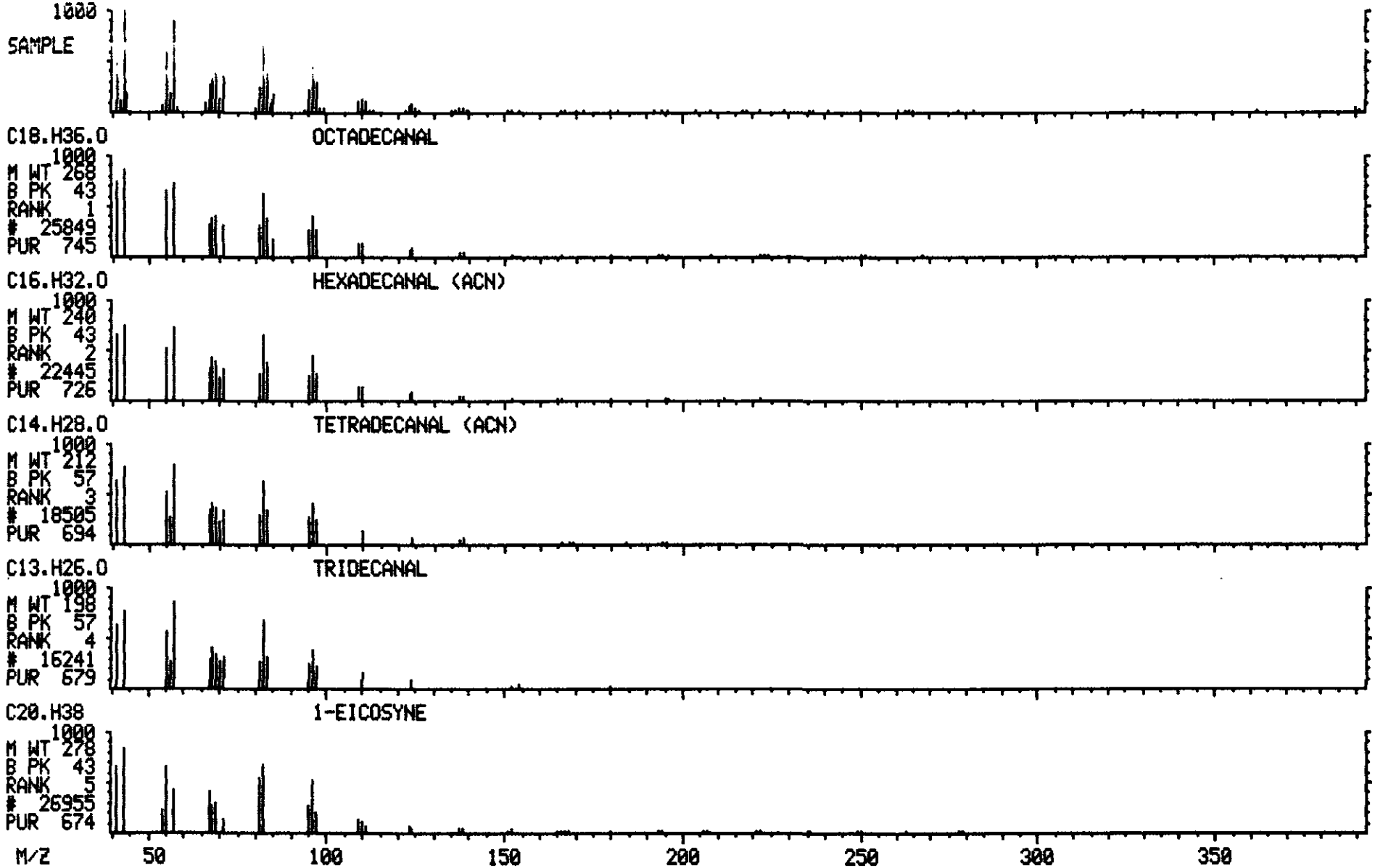
✓

LIBRARY SEARCH
05/23/90 17:42:00 + 36:40
SAMPLE: CLP,VERSCOM,2565,14,L,5,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #2200
CALI: T2731 # 2

BASE M/Z: 43
RIC: 51711.

100523



Library Search Data: T2731 #2251 Base m/z: 57
05/23/90 17:42:00 + 37:31 Cali: T2731 # 2 RIC: 25471
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
207 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	39944	HEXATRIACONTANE
2	33536	PENTACOSANE
3	39695	PENTATRIACONTANE
4	30170	DOCOSANE
5	36165	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLMETHYLENE)BENZENAMINE-N,N']-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C36.H74	506	57	730	945	768
2	C25.H52	352	57	725	918	782
3	C35.H72	492	57	715	933	761
4	C22.H46	310	57	714	924	763
5	C21.H14.O3.N2.FE	398	57	713	911	768

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	630-06-8
2	—	—	—	—	629-99-2
3	—	—	—	—	630-07-9
4	—	—	—	—	629-97-0
5	—	—	—	—	74764-11-7

✓

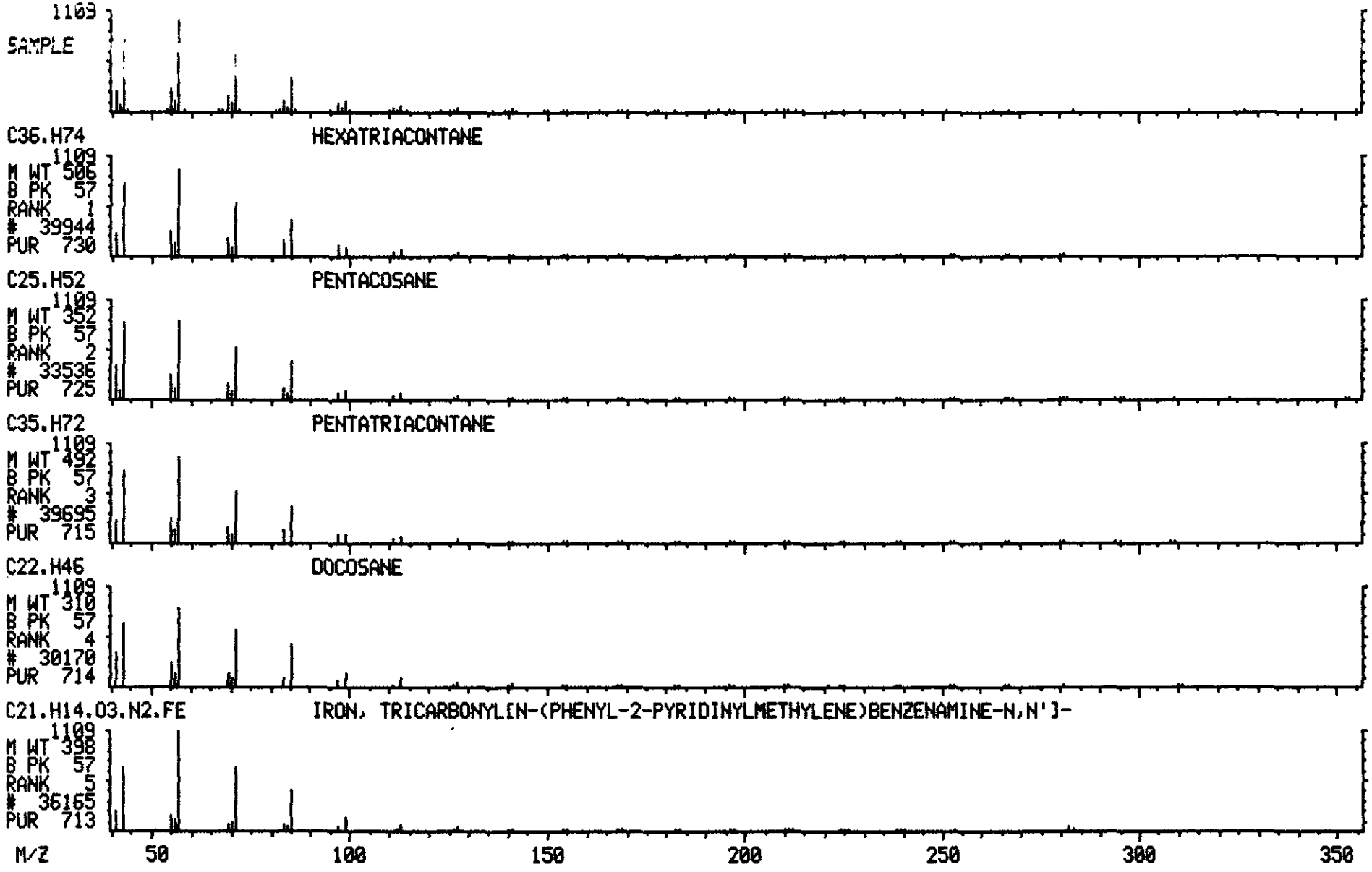
ORIGINAL (Red)

100525

LIBRARY SEARCH
05/23/90 17:42:00 + 37:31
SAMPLE: CLP,VERSCOM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #2251
CALI: T2731 # 2

BASE M/Z: 57
RIC: 25471.



Library Search Data: T2731 #2438 Base m/z: 43
05/23/90 17:42:00 + 40:38 Cali: T2731 # 2 RIC: 33791.

ORIGINAL (Red)

Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
108 matched at least 8 of the 16 largest peaks in the unknown

aldehyde

Rank	In.	Name
1	25849	OCTADECANAL
2	22445	HEXADECANAL (ACN)
3	18505	TETRADECANAL (ACN)
4	16241	TRIDECANAL
5	27781	1,1-DODECANEDIOL, DIACETATE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H36.O	268	43	782	973	796
2	C16.H32.O	240	43	747	954	773
3	C14.H28.O	212	57	735	978	743
4	C13.H26.O	198	57	719	979	719
5	C16.H30.O4	286	43	693	953	712

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	638-66-4
2	—	—	—	—	629-80-1
3	—	—	—	—	124-25-4
4	—	—	—	—	10486-19-8
5	—	—	—	—	56438-07-4

✓

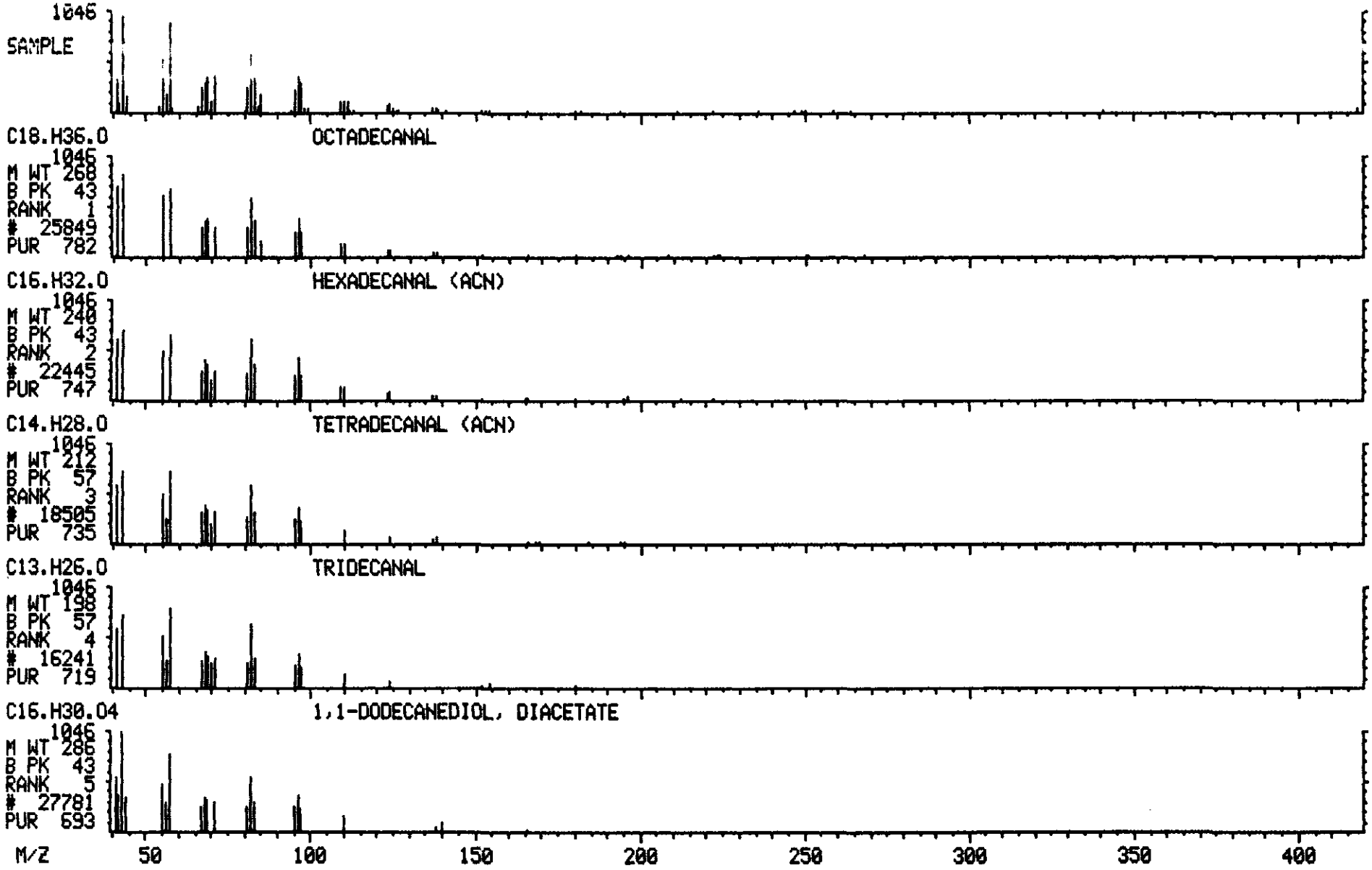
100526

LIBRARY SEARCH
05/23/90 17:42:00 + 40:38
SAMPLE: CLP,VERSCDM,2565,14,L,S,16916,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2731 #2438
CALI: T2731 # 2

BASE M/Z: 43
RIC: 33791.

100527



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        >>>>INTERNAL STANDARD RIC REPORT<<<<
****************************INTERNAL STANDARD#1*****************RIC
Mass List                        Data: T2731 # 514          Base m/z:   150
05/23/90 17:42:00 +  8:34        Cali: T2731 #   2          RIC:     130816.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     35        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
****************************INTERNAL STANDARD#2*****************RIC
Mass List                        Data: T2731 # 731          Base m/z:   136
05/23/90 17:42:00 + 12:11        Cali: T2731 #   2          RIC:     165632.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
****************************INTERNAL STANDARD#3*****************RIC
Mass List                        Data: T2731 #1061          Base m/z:   164
05/23/90 17:42:00 + 17:41        Cali: T2731 #   2          RIC:     158720.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
****************************INTERNAL STANDARD#4*****************RIC
Mass List                        Data: T2731 #1343          Base m/z:   188
05/23/90 17:42:00 + 22:23        Cali: T2731 #   2          RIC:     184576.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
****************************INTERNAL STANDARD#5*****************RIC
Mass List                        Data: T2731 #1858          Base m/z:   240
05/23/90 17:42:00 + 30:58        Cali: T2731 #   2          RIC:     146176.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
****************************INTERNAL STANDARD#6*****************RIC
Mass List                        Data: T2731 #2139          Base m/z:   264
05/23/90 17:42:00 + 35:39        Cali: T2731 #   2          RIC:      96384.
Sample: CLP,VERSCDM,2565,14,L,S,16916,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
     ANALYST: CHECK BASE M/Z AND RIC AMOUNT TO INSURE NO CONTAMINATION
```

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15 ORIGINAL

L. Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4_CDM

Matrix: (soil/water) SOIL Lab Sample ID: 16917

Sample wt/vol: 30.1 (g/mL) G Lab File ID: T2732

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 8 dec. ____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/23/90

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	750	U
111-44-4	bis(2-Chloroethyl)ether	750	U
95-57-8	2-Chlorophenol	750	U
541-73-1	1,3-Dichlorobenzene	750	U
106-46-7	1,4-Dichlorobenzene	750	U
100-51-6	Benzyl alcohol	750	U
95-50-1	1,2-Dichlorobenzene	750	U
95-48-7	2-Methylphenol	750	U
108-60-1	bis(2-Chloroisopropyl)ether	750	U
106-44-5	4-Methylphenol	750	U
621-64-7	N-Nitroso-di-n-propylamine	750	U
67-72-1	Hexachloroethane	750	U
98-95-3	Nitrobenzene	750	U
78-59-1	Isophorone	750	U
88-75-5	2-Nitrophenol	750	U
105-67-9	2,4-Dimethylphenol	750	U
65-85-0	Benzoic Acid	3700	U
111-91-1	bis(2-Chloroethoxy)methane	750	U
120-83-2	2,4-Dichlorophenol	750	U
120-82-1	1,2,4-Trichlorobenzene	750	U
91-20-3	Naphthalene	750	U
106-47-8	4-Chloroaniline	750	U
87-68-3	Hexachlorobutadiene	750	U
59-50-7	4-Chloro-3-methylphenol	750	U
91-57-6	2-Methylnaphthalene	750	U
77-47-4	Hexachlorocyclopentadiene	750	U
88-06-2	2,4,6-Trichlorophenol	750	U
95-95-4	2,4,5-Trichlorophenol	3700	U
91-58-7	2-Chloronaphthalene	750	U
88-74-4	2-Nitroaniline	3700	U
131-11-3	Dimethylphthalate	750	U
208-96-8	Acenaphthylene	750	U
606-20-2	2,6-Dinitrotoluene	750	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

15 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4 CDM

Matrix: (soil/water) SOIL Lab Sample ID: 16917

Sample wt/vol: 30.1 (g/mL) G Lab File ID: T2732

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 8 dec. ____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/23/90

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3700	U
83-32-9	Acenaphthene	750	U
51-28-5	2,4-Dinitrophenol	3700	U
100-02-7	4-Nitrophenol	3700	U
132-64-9	Dibenzofuran	750	U
121-14-2	2,4-Dinitrotoluene	750	U
84-66-2	Diethylphthalate	750	U
7005-72-3	4-Chlorophenyl-phenylether	750	U
86-73-7	Fluorene	750	U
100-01-6	4-Nitroaniline	3700	U
534-52-1	4,6-Dinitro-2-methylphenol	3700	U
86-30-6	N-nitrosodiphenylamine (1)	750	U
101-55-3	4-Bromophenyl-phenylether	750	U
118-74-1	Hexachlorobenzene	750	U
87-86-5	Pentachlorophenol	3700	U
85-01-8	Phenanthrene	750	U
120-12-7	Anthracene	750	U
84-74-2	Di-n-butylphthalate	750	U
206-44-0	Fluoranthene	190	J
129-00-0	Pyrene	190	J
85-68-7	Butylbenzylphthalate	750	U
91-94-1	3,3'-Dichlorobenzidine	1500	U
56-55-3	Benzo(a)anthracene	200	J
218-01-9	Chrysene	280	J
117-81-7	bis(2-Ethylhexyl)phthalate	750	U
117-84-0	Di-n-octyl phthalate	750	U
205-99-2	Benzo(b)fluoranthene	440	J
207-08-9	Benzo(k)fluoranthene	330	J
50-32-8	Benzo(a)pyrene	210	J
193-39-5	Indeno(1,2,3-cd)pyrene	270	J
53-70-3	Dibenz(a,h)anthracene	750	U
191-24-2	Benzo(g,h,i)perylene	750	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

15

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: R3-7 SAS No.: _____ SDG No.: 4 CDM

Matrix: (soil/water) SOIL Lab Sample ID: 16917

Sample wt/vol: 30.1 (g/mL) G Lab File ID: T2732

Level: (low/med) LOW Date Received: 04/23/90

% Moisture: not dec. 8 dec. ____ Date Extracted: 05/01/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/23/90

GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

Number TICs found: 11

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

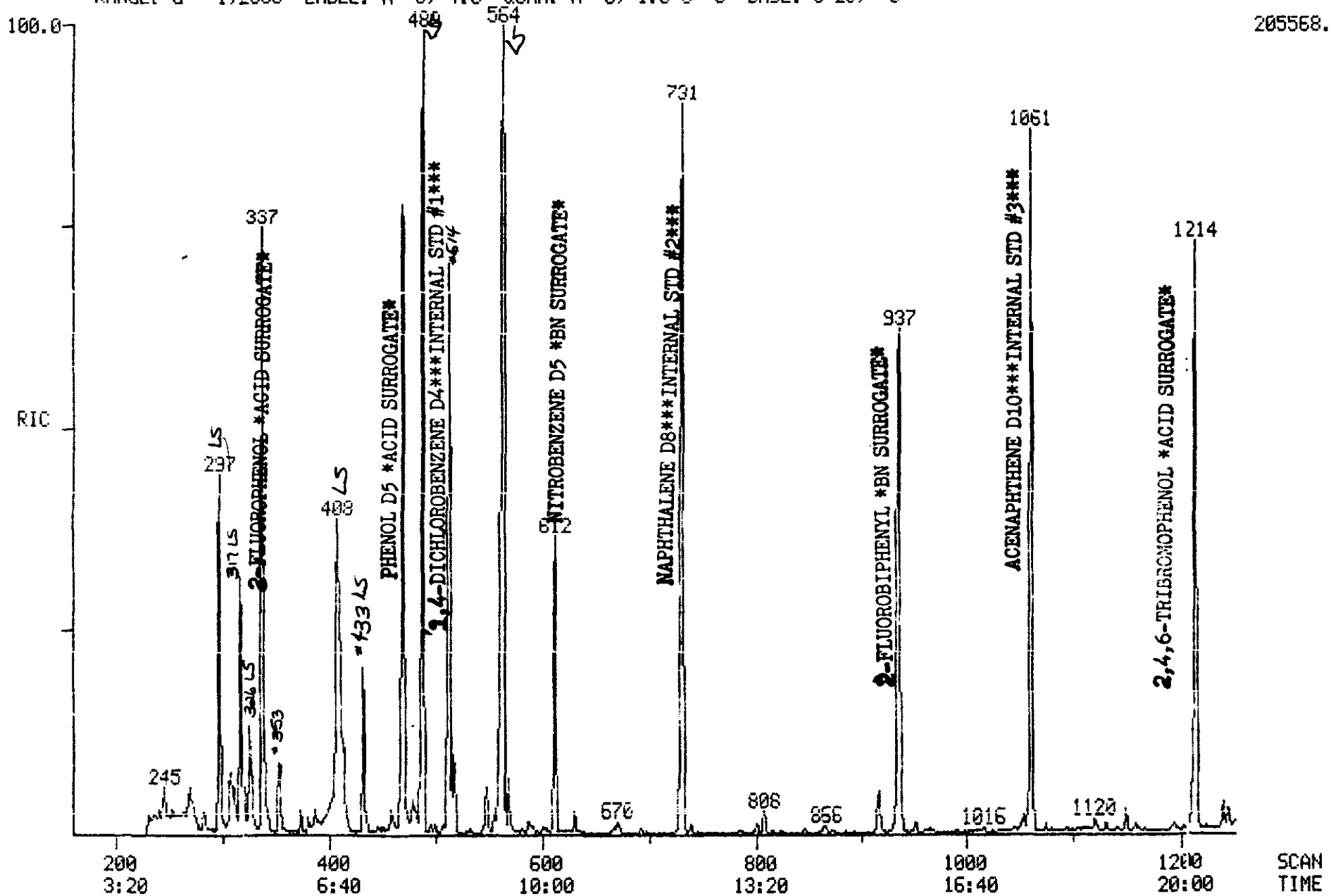
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.95	1800	BJ
2.	UNKNOWN	5.28	1200	BJ
3.	UNKNOWN HYDROCARBON	5.43	530	BJ
4.	UNKNOWN	5.88	300	J
5.	UNKNOWN	6.80	1600	J
6.	UNKNOWN KETONE	7.22	840	BJ
7.	UNKNOWN	8.15	4000	J
8.	UNKNOWN	9.40	4500	J
9.	UNKNOWN	33.49	1200	BJ
10.	UNKNOWN HYDROCARBON	34.57	380	J
11.	UNKNOWN ALDEHYDE	36.66	380	J

100532

RIC
05/23/90 18:32:00
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

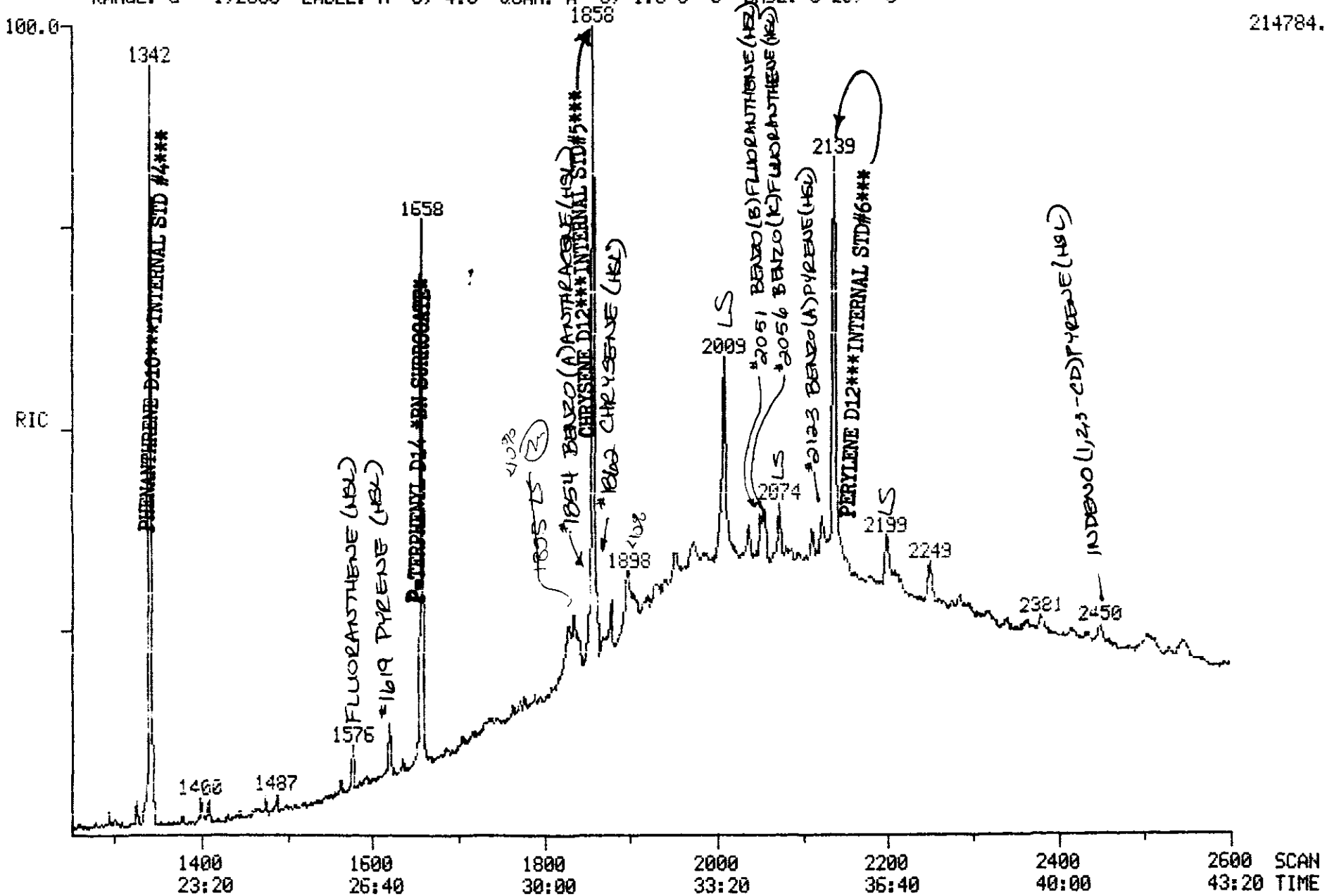
DATA: T2732 #1
CALI: T2732 #2

SCANS 160 TO 1250



RIC DATA: T2732 #1 SCANS 1250 TO 2600
05/23/90 18:32:00 CALI: T2732 #2
SAMPLE: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

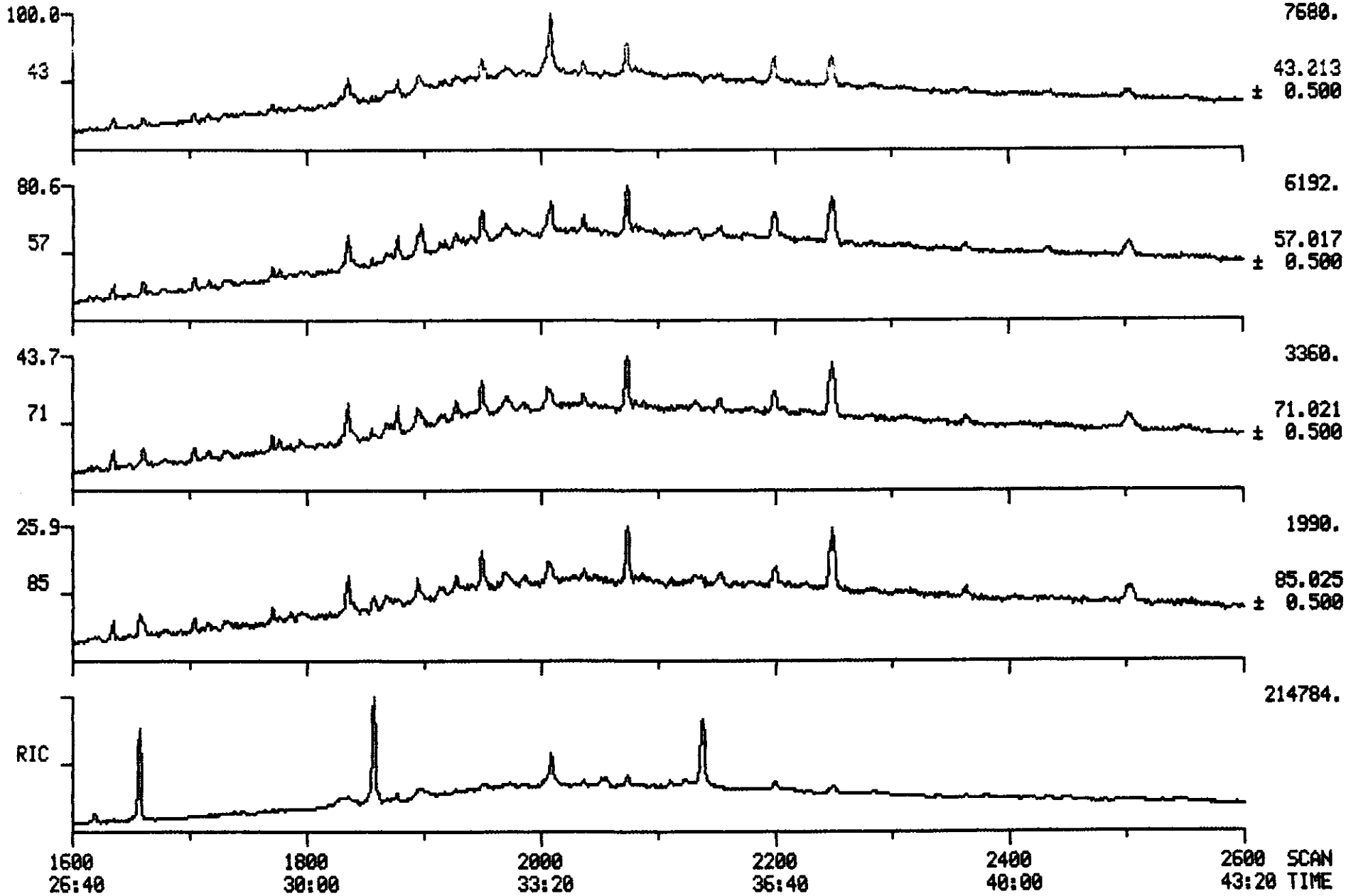
100533



ORIGINAL (Red)

RIC+MASS CHROMATOGRAMS DATA: T2732 #1 SCANS 1600 TO 2600
05/23/90 18:32:00 CALI: T2732 #2
SAMPLE: CLP,VERSCDM,2565,15,L,5,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2600 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

100534



Quantitation Report ~ File: T2732

Data: T2732.TI
05/23/90 18:32:00
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

All IS areas & surrogate recoveries are compliant.
SJD 5/24/90.

8 HSL's quantitated

11 LIBR SRCHS
5 of 11 in BLNK

100535

T2732

ORIGINAL

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	514	8:34	1	1.000	A BB	49135.	40.000 NG/UL	7.52
2	128	489	8:09	1	0.951	A BB	1833.	~~1.178 NG~~.	0.22
3	94	471	7:51	1	0.916	A BB	442.	BRL ~~0.175 NG.~~	0.04
4	NOT FOUND								
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	112	337	5:37	1	0.656	A BB	82803.	51.180 NG*A1	9.62
15	99	469	7:49	1	0.912	A BB	126941.	58.505 NG*A2	11.00
16	136	731	12:11	16	1.000	A BB	151660.	40.000 NG/UL	7.52
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	122	692	11:32	16	0.947	A BB	590.	BRL ~~0.858 NG~~	0.16
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	82	612	10:12	16	0.837	A BB	57055.	24.851 NG*B1	4.67
31	164	1061	17:41	31	1.000	A BB	101856.	40.000 NG/UL	7.52
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	152	1031	17:11	31	0.972	A BB	690.	BRL ~~0.136 NG~~	0.03
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	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

T2732

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:32	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:05	1.01	0.947	1.00	1.18	50.00	0.030	1.267	0.02
3	7:50	1.00	0.918	1.00	0.20	50.00	0.007	1.842	0.00
4	8:02		0.941						
5	8:26		0.988						
6	8:35		1.006						
7	9:04		1.062						
8	9:01		1.057						
9	9:27		1.107						
10	9:23		1.100						
11	9:53		1.158						
12	9:48		1.148						
13	9:52		1.156						
14	5:35	1.01	0.654	1.00	51.18	50.00	1.348	1.317	1.02
15	7:48	1.00	0.914	1.00	58.51	50.00	2.067	1.766	1.17
16	12:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:14		0.842						
18	10:53		0.896						
19	11:08		0.916						
20	11:19		0.931						
21	11:38		0.957						
22	11:48		0.971						
23	12:03		0.992						
24	12:13		1.005						
25	11:42	0.99	0.963	0.98	0.86	50.00	0.003	0.181	0.02
26	12:32		1.032						
27	12:46		1.051						
28	14:03		1.156						
29	14:19		1.178						
30	10:11	1.00	0.838	1.00	24.85	50.00	0.301	0.606	0.50
31	17:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:01		0.851						
33	15:20		0.869						
34	15:26		0.874						
35	15:50		0.897						
36	16:23		0.928						
37	17:10	1.00	0.973	1.00	0.14	50.00	0.005	1.990	0.00
38	17:06		0.969						
39	17:20		0.982						
40	17:46		1.007						
41	17:43		1.004						
42	18:01		1.021						
43	18:16		1.035						
44	18:18		1.037						
45	18:32		1.050						
46	19:22		1.097						
47	19:26		1.101						
48	19:22		1.097						
49	19:42		1.116						
50	19:47		1.121						

ORIGINAL
(Red)

Quantitation Report File: T2732

Data: T2732.TI
05/23/90 18:32:00
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C775 BENZO(A)PYRENE
74	C780 INDENO(1,2,3-CD)PYRENE
75	C785 DIBENZ(A,H)ANTHRACENE
76	C790 BENZO(G,H,I)PERYLENE
77	C770 BENZO(K)FLUORANTHENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	172	936	15:36	31	0.882	A BB	98624.	29.217 NG*B2	5.45
55	188	1342	22:22	55	1.000	A BV	198931.	40.000 NG/UL	7.46
56	NOT FOUND								
57	178	1346	22:26	55	1.003	A BB	3922.	~~0.725 NG~~	0.14
58	178	1346	22:26	55	1.003	A BB	3922.	BEL ~~0.736 NG~~	0.14
59	149	1475	24:35	55	1.099	A BB	5544.	~~0.810 NG~~	0.15
60	202	1576	26:16	55	1.174	A BB	13979.	2.521 NG	0.47
61	202	1619	26:59	63	0.871	A BB	13806.	2.508 NG	0.47
62	330	1214	20:14	31	1.144	A BB	43610.	61.090 NG*A3	11.39
63	240	1858	30:58	63	1.000	A BB	162522.	40.000 NG/UL	7.46
64	149	1764	29:24	63	0.949	A BB	1639.	BEL ~~0.588 NG~~	0.11
65	228	1854	30:54	63	0.998	A BV	11139.	2.685 NG	0.50
66	228	1862	31:02	63	1.002	A VB	11031.	3.711 NG	0.69

100538

ORIGINAL
(Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT FOUND								
68	149	1878	31:18	63	1.011	A BB	5568.	BRL ~~1.399 NG~~	0.26
69	244	1658	27:38	63	0.892	A BB	122413.	33.587 NG*B3	6.26
70	264	2138	35:38	70	1.000	A BB	152301.	40.000 NG/UL	7.46
71	149	1984	33:04	70	0.928	A BB	918.	BRL ~~0.134 NG~~	0.03
72	252	2051	34:11	70	0.959	A BB	27678.	5.813 NG	1.08
73	252	2123	35:23	70	0.993	A BB	11356.	2.814 NG	0.52
74	276	2449	40:49	70	1.145	A BB	12462.	3.608 NG	0.67
75	278	2459	40:59	70	1.150	A BV	3014.	BRL ~~0.937 NG~~	0.17
76	276	2545	42:25	70	1.190	A BB	7228.	~~2.078 NG~~	0.39
77	252	2056	34:16	70	0.962	M XX	15042.	4.388 NG	0.82

5/22/90

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	19:52		1.126						
52	20:58		1.188						
53	21:21		1.210						
54	15:36	1.00	0.884	1.00	29.22	50.00	0.775	1.326	0.58
55	22:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	21:58		0.983						
57	22:25	1.00	1.003	1.00	0.72	50.00	0.016	1.088	0.01
58	22:33	0.99	1.009	0.99	0.74	50.00	0.016	1.071	0.01
59	24:34	1.00	1.099	1.00	0.81	50.00	0.022	1.376	0.02
60	26:16	1.00	1.175	1.00	2.52	50.00	0.056	1.115	0.05
61	26:59	1.00	0.872	1.00	2.51	50.00	0.068	1.355	0.05
62	20:12	1.00	1.144	1.00	61.09	50.00	0.343	0.280	1.22
63	30:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:23	1.00	0.950	1.00	0.59	50.00	0.008	0.686	0.01
65	30:53	1.00	0.998	1.00	2.69	50.00	0.055	1.021	0.05
66	31:01	1.00	1.003	1.00	3.71	50.00	0.054	0.732	0.07
67	30:56		1.000						
68	31:16	1.00	1.011	1.00	1.40	50.00	0.027	0.979	0.03
69	27:36	1.00	0.892	1.00	33.59	50.00	0.603	0.897	0.67
70	35:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:02	1.00	0.928	1.00	0.13	50.00	0.005	1.795	0.00
72	34:10	1.00	0.960	1.00	5.81	50.00	0.145	1.251	0.12
73	35:21	1.00	0.993	1.00	2.81	50.00	0.060	1.060	0.06
74	40:48	1.00	1.147	1.00	3.61	50.00	0.065	0.907	0.07
75	40:58	1.00	1.151	1.00	0.94	50.00	0.016	0.845	0.02
76	42:25	1.00	1.192	1.00	2.08	50.00	0.038	0.913	0.04
77	34:15	1.00	0.963	1.00	4.39	50.00	0.079	0.900	0.09

Quantitation Report File: QCREF

ORIGINAL (Red)

Data: T2732.TI
05/23/90 18:32:00
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI40 NAPHTHALENE-D8**INT. STD.#2**
3	CI50 ACENAPHTHENE-D10**INT. STD.#3**
4	CI60 PHENANTHRENE-D10**INT. STD.#4**
5	CI70 CHRYSENE-D12**INT. STD.#5**
6	CI75 PERYLENE-D12**INT. STD.#6**
7	CS50 2-FLUOROPHENOL**ACID SURR.**
8	CS45 PHENOL-D5**ACID SURR.**
9	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
10	CS20 NITROBENZENE-D5**BN SURR.**
11	CS25 2-FLUOROBIPHENYL**BN SURR.**
12	CS30 P-TERPHENYL-D14**BN SURR.**

x 1.053

Scan	Time	Area(Hght)		Amount		Name
514	8:34	49135.		40.000	NG/UL	CI30 1,4-DICHLOROBENZENE-D4
731	12:11	151660.	90	40.000	NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1061	17:41	101856.		40.000	NG/UL	CI50 ACENAPHTHENE-D10**INT.
1342	22:22	198931.	RC	40.000	NG/UL	CI60 PHENANTHRENE-D10**INT.
1858	30:58	162522.		40.000	NG/UL	CI70 CHRYSENE-D12**INT. STD.
2138	35:38	152301.		40.000	NG/UL	CI75 PERYLENE-D12**INT. STD.
337	5:37	82803.	54	51.180	NG*A1	CS50 2-FLUOROPHENOL**ACID SU
469	7:49	126941.	62	58.505	NG*A2	CS45 PHENOL-D5**ACID SURR.**
1214	20:14	43610.	64	61.090	NG*A3	CS55 2,4,6,-TRIBROMOPHENOL**
612	10:12	57055.	52	24.851	NG*B1	CS20 NITROBENZENE-D5**BN SUR
936	15:36	98624.	62	29.217	NG*B2	CS25 2-FLUOROBIPHENYL**BN SU
1658	27:38	122413.	71	33.587	NG*B3	CS30 P-TERPHENYL-D14**BN SUR

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:32	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:09	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	17:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	30:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	35:35	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	5:35	1.01	0.654	1.00	51.18	50.00	1.348	1.317	1.02
8	7:48	1.00	0.914	1.00	58.51	50.00	2.067	1.766	1.17
9	20:12	1.00	1.144	1.00	61.09	50.00	0.343	0.280	1.22
10	10:11	1.00	0.838	1.00	24.85	50.00	0.301	0.606	0.50
11	15:36	1.00	0.884	1.00	29.22	50.00	0.775	1.326	0.58
12	27:36	1.00	0.892	1.00	33.59	50.00	0.603	0.897	0.67

Quantitation Report ** File: ISREF

ORIGINAL

Data: T2726.TI
05/23/90 12:04:00
Sample: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: -

Data: T2732.TI
05/23/90 16:32:00
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1.0

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

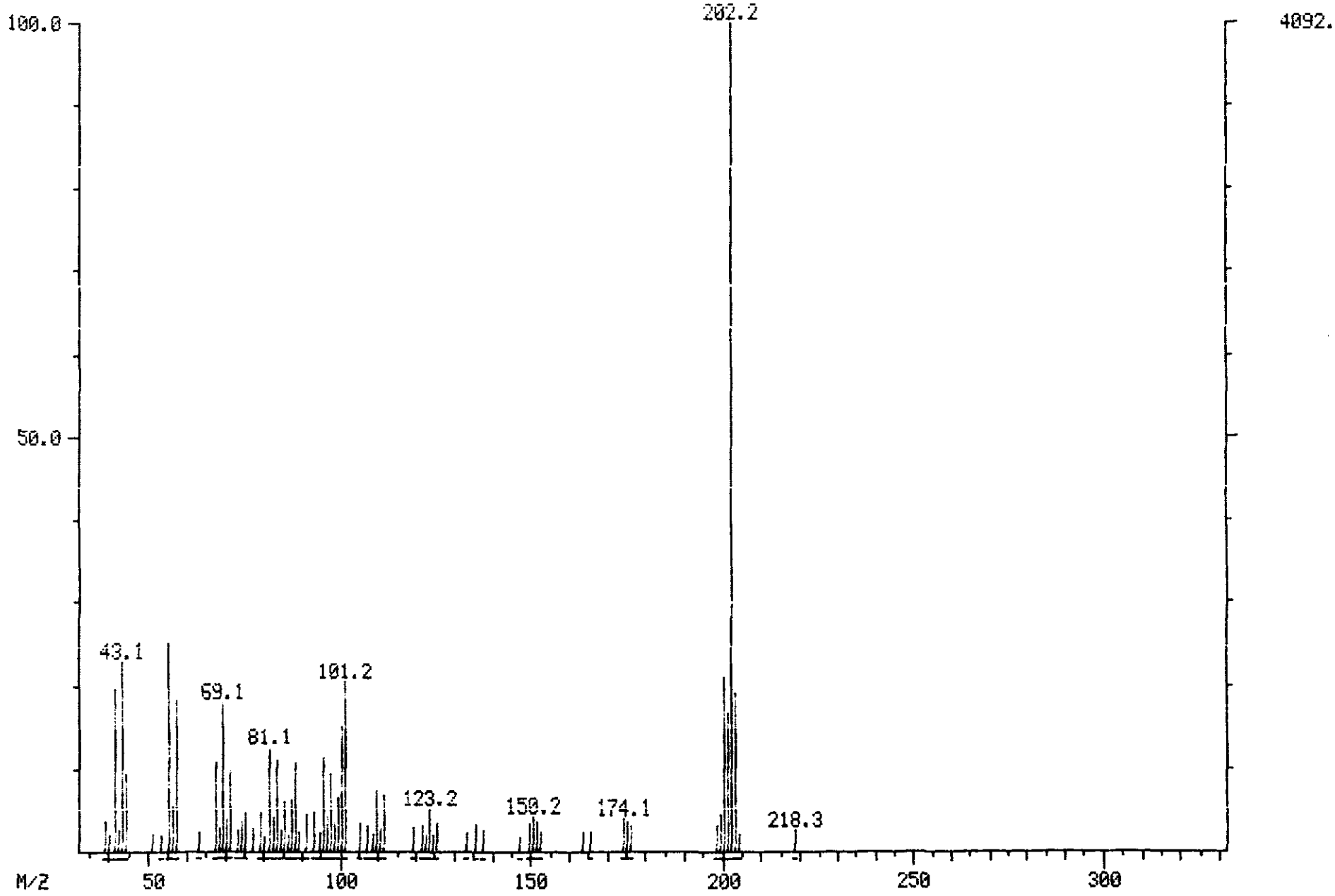
No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
3	CI40 NAPHTHALENE-D8**INT. STD. #2**
4	CI40 NAPHTHALENE-D8**INT. STD. #2**
5	CI50 ACENAPHTHENE-D10**INT. STD. #3**
6	CI50 ACENAPHTHENE-D10**INT. STD. #3**
7	CI60 PHENANTHRENE-D10**INT. STD. #4**
8	CI60 PHENANTHRENE-D10**INT. STD. #4**
9	CI70 CHRYSENE-D12**INT. STD. #5**
10	CI70 CHRYSENE-D12**INT. STD. #5**
11	CI75 PERYLENE-D12**INT. STD. #6**
12	CI75 PERYLENE-D12**INT. STD. #6**

Scan	Time	Area(Hght)	Amount	Name
512	8:32	32730.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
514	8:34	49135.	60.049 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
729	12:09	101194.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
731	12:11	151660.	59.948 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1059	17:39	68217.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1061	17:41	101856.	59.725 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1341	22:21	135436.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1342	22:22	198931.	58.753 NG/UL	CI60 PHENANTHRENE-D10**INT.
1856	30:56	112578.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
1858	30:58	162522.	57.745 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2135	35:35	97334.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
2138	35:38	152301.	62.589 NG/UL	CI75 PERYLENE-D12**INT. STD.

MASS SPECTRUM
05/23/90 18:32:00 + 26:16
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C655 FLUORANTHENE

DATA: T2732 #1576
CALI: T2732 #2

BASE M/Z: 202
RIC: 23648.

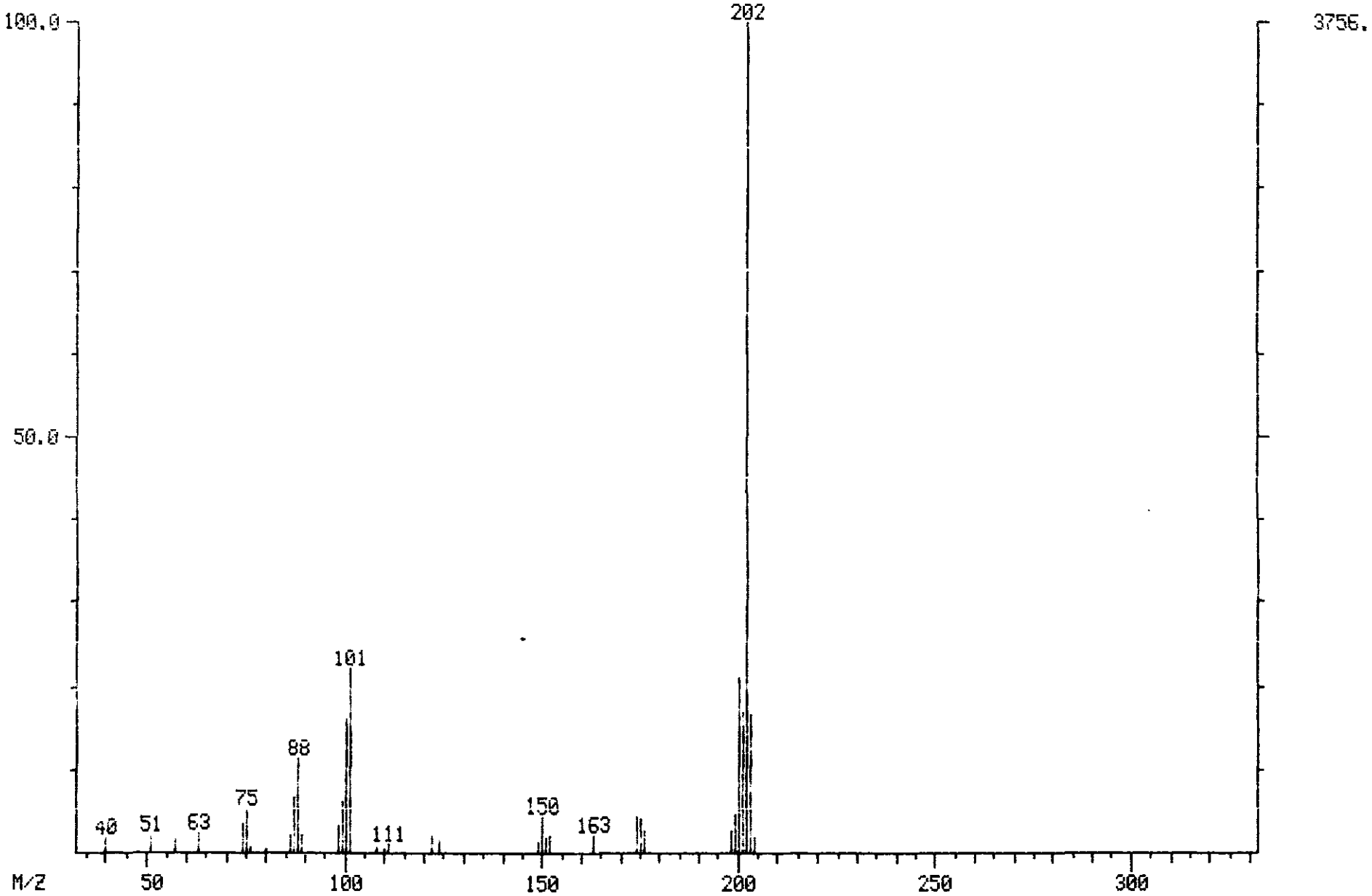


MASS SPECTRUM
05/23/90 18:32:00 + 26:16
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C655 FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2732 #1576
CALI: T2732 #2

BASE M/Z: 202
RIC: 10624.

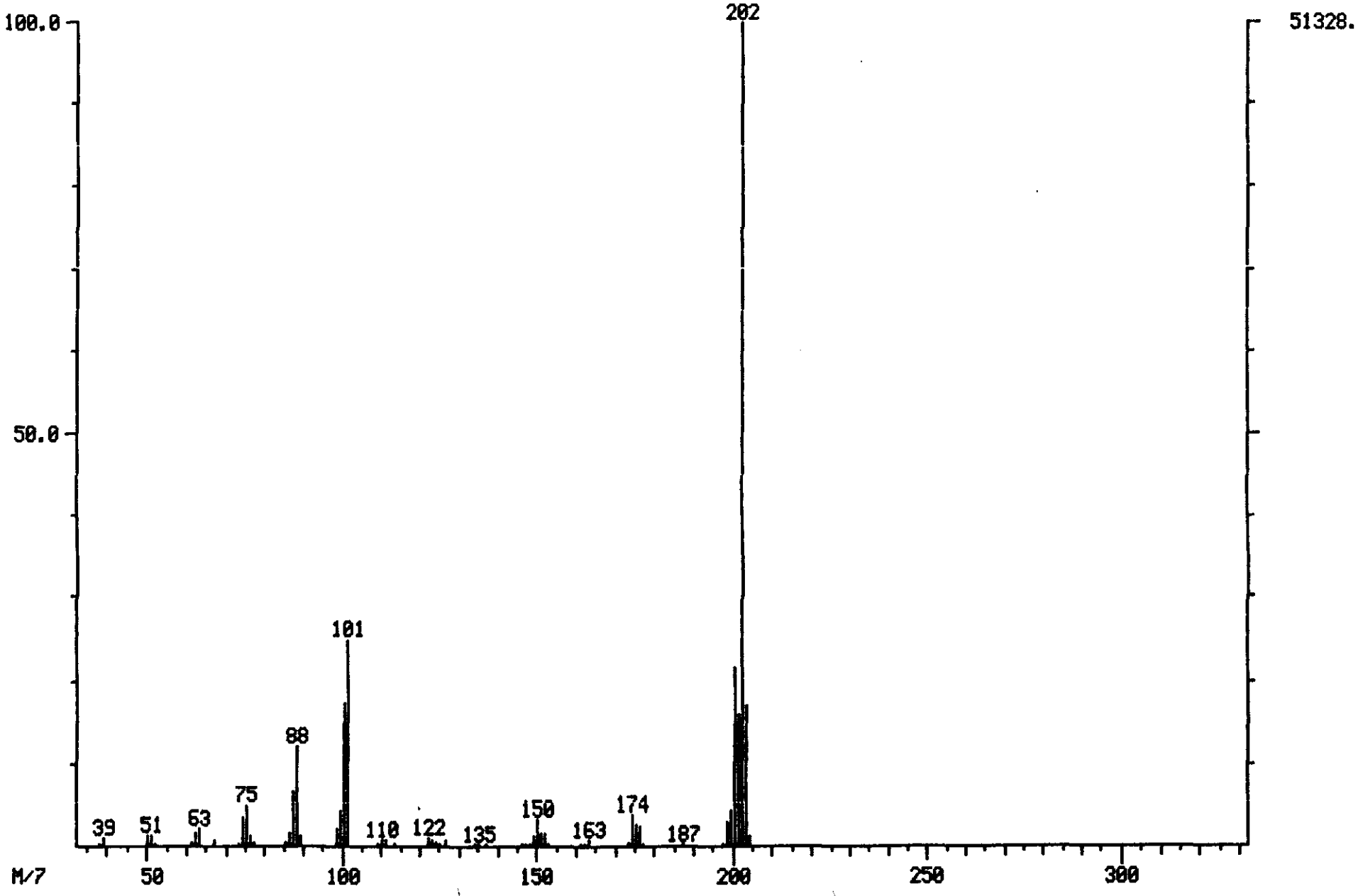
100543



MASS SPECTRUM
05/23/90 12:04:00 + 26:16
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C655 FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #1576
CALI: T2726 #2

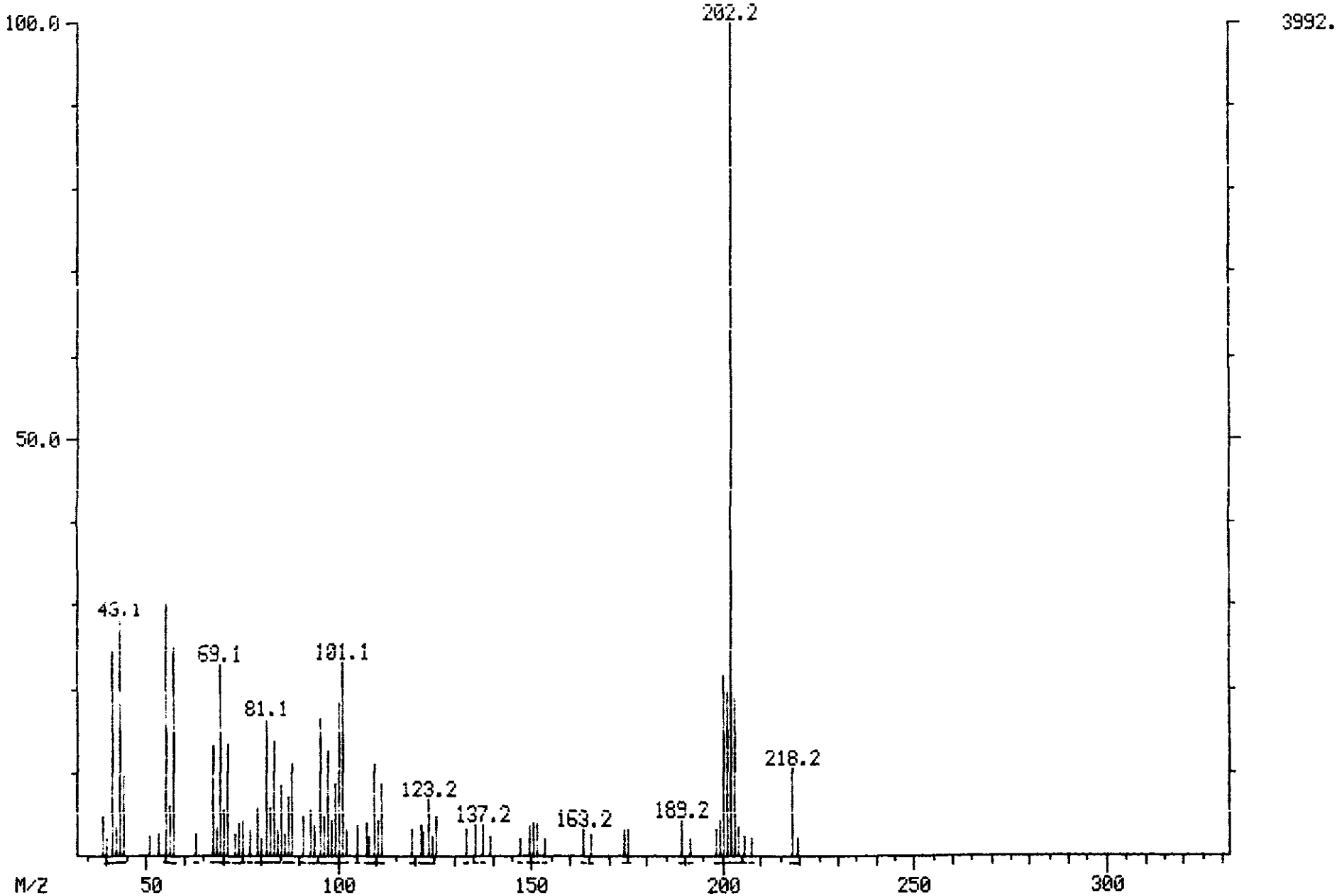
BASE M/Z: 202
RIC: 145664.



MASS SPECTRUM
05/23/90 18:32:00 + 26:59
SAMPLE: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C715 PYRENE

DATA: T2732 #1619
CALI: T2732 #2

BASE M/Z: 202
RIC: 27648.

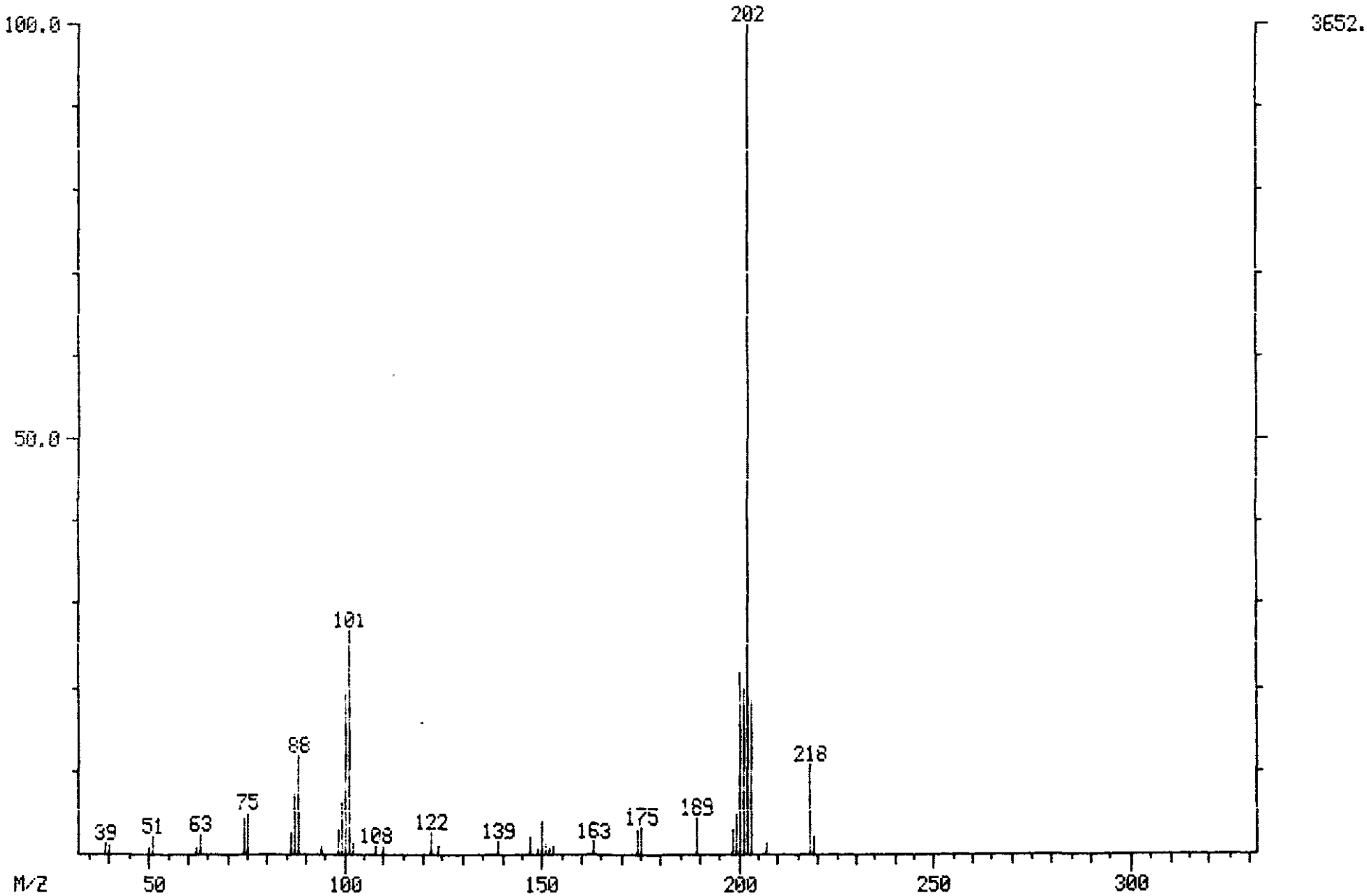


100546

MASS SPECTRUM
05/23/90 18:32:00 + 26:59
SAMPLE: CLP,VERSCDM,2565,15,L,5,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C715 PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2732 #1619
CALI: T2732 #2

BASE M/Z: 202
RIC: 11440.

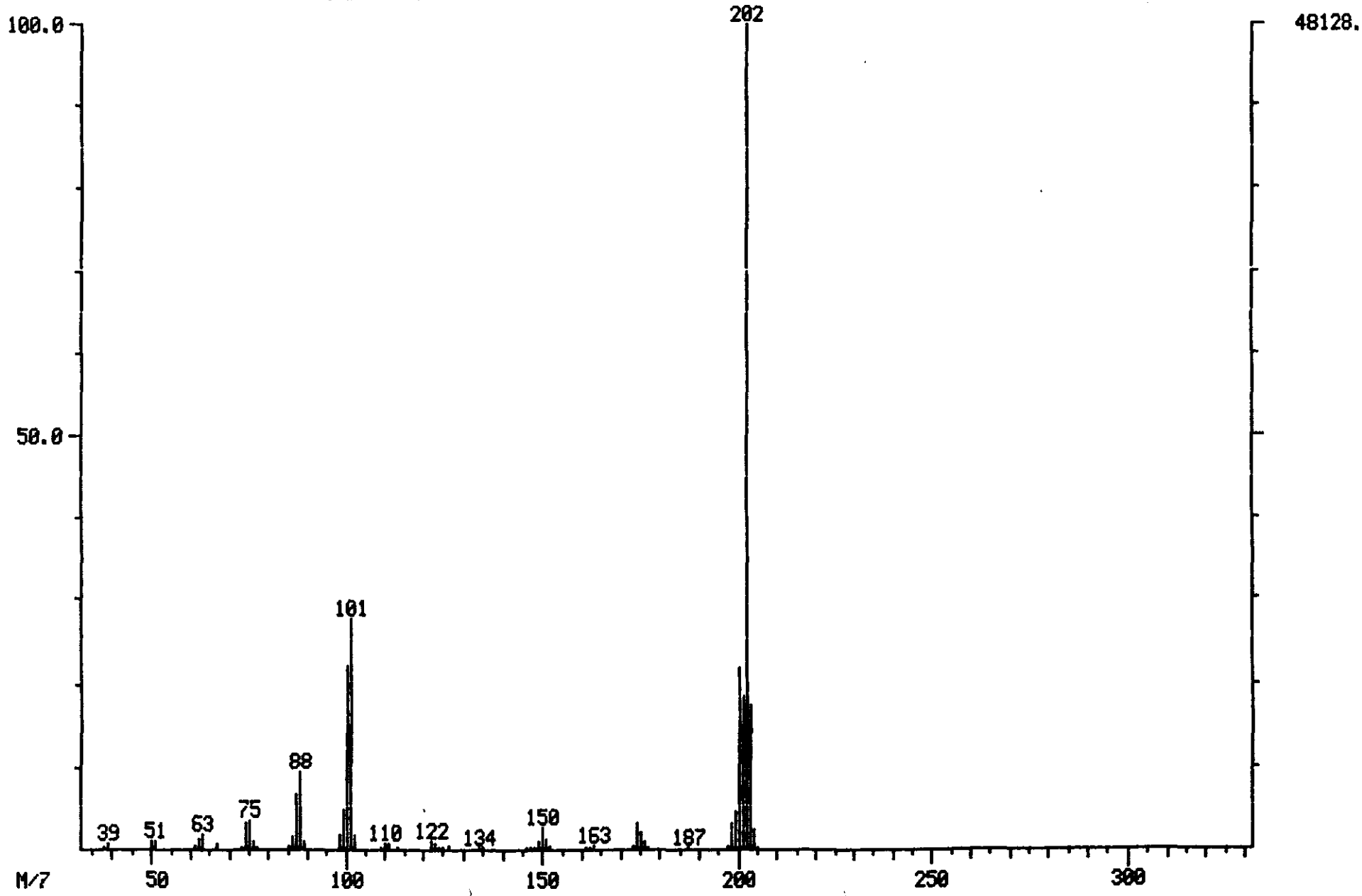


MASS SPECTRUM
05/23/90 12:04:00 + 26:59
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C715 PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #1619
CALI: T2726 #2

BASE M/Z: 202
RIC: 136960.

100547

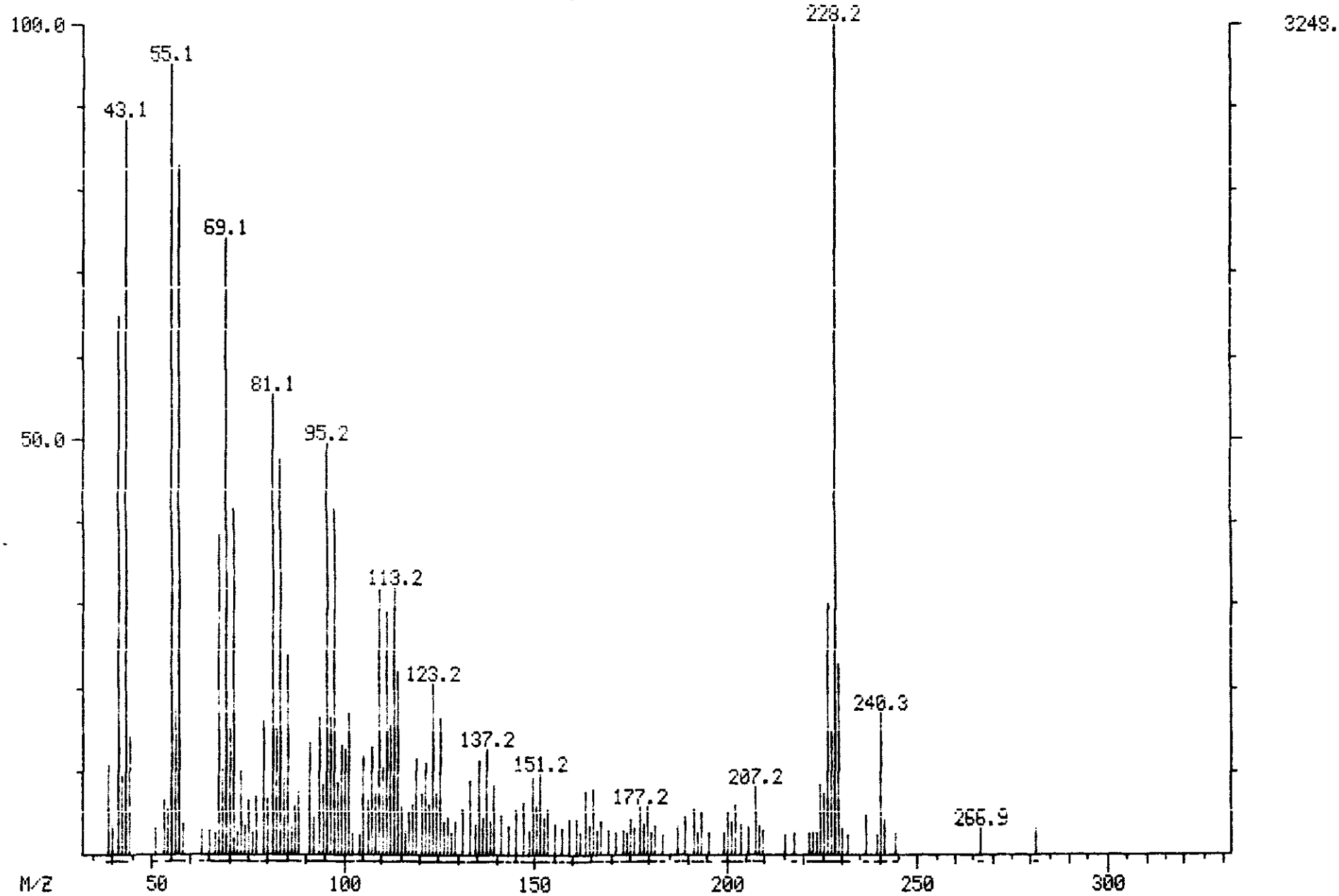


MASS SPECTRUM
05/23/90 18:32:00 + 31:02
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C730 BENZO(A)ANTHRACENE

DATA: T2732 #1862
CALI: T2732 #2

BASE M/Z: 228
RIC: 59200.

100548

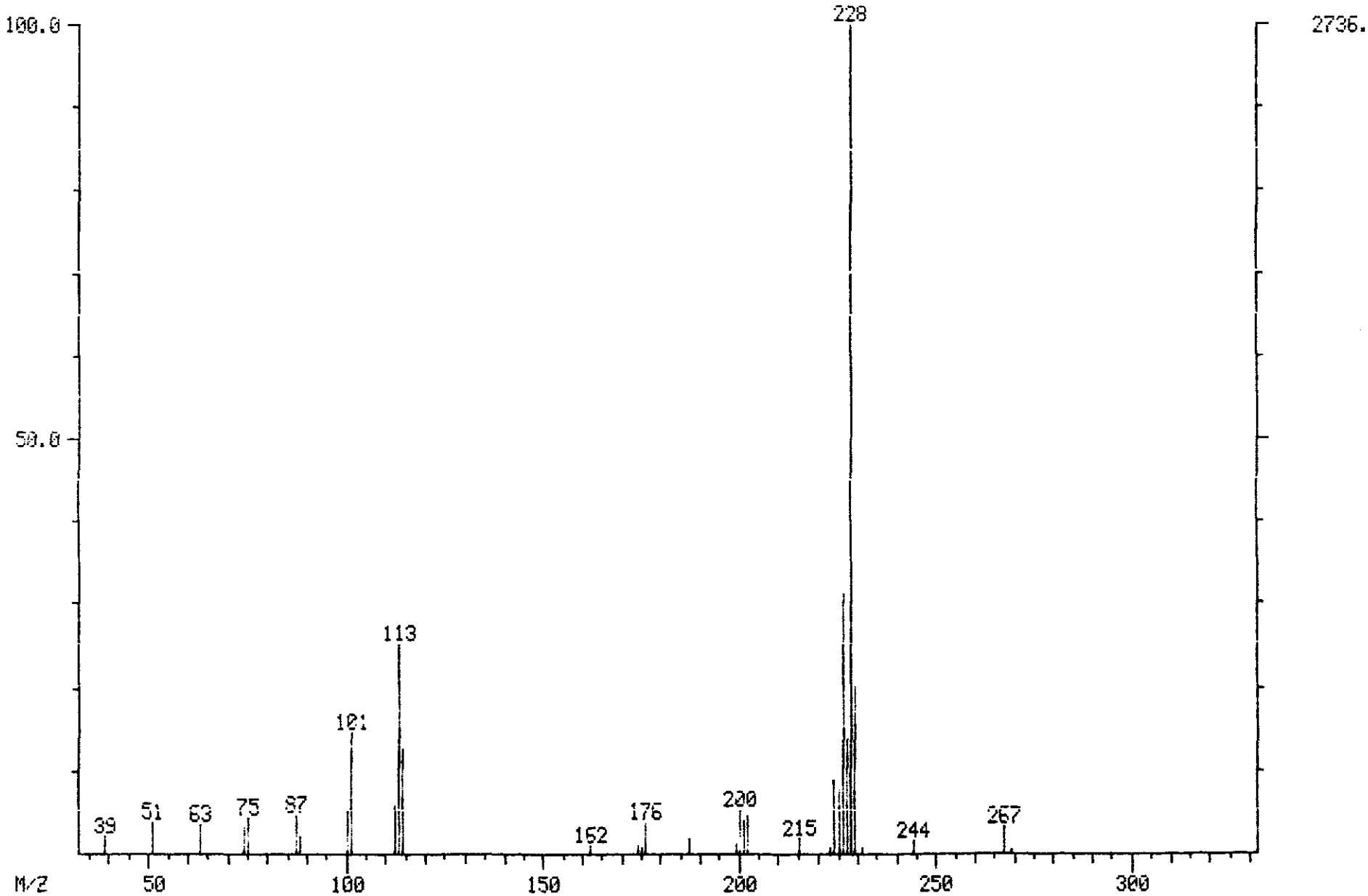


MASS SPECTRUM
05/23/90 18:32:00 + 31:02
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C730 BENZO(A)ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2732 #1862
CALI: T2732 #2

BASE M/Z: 228
RIC: 8304.

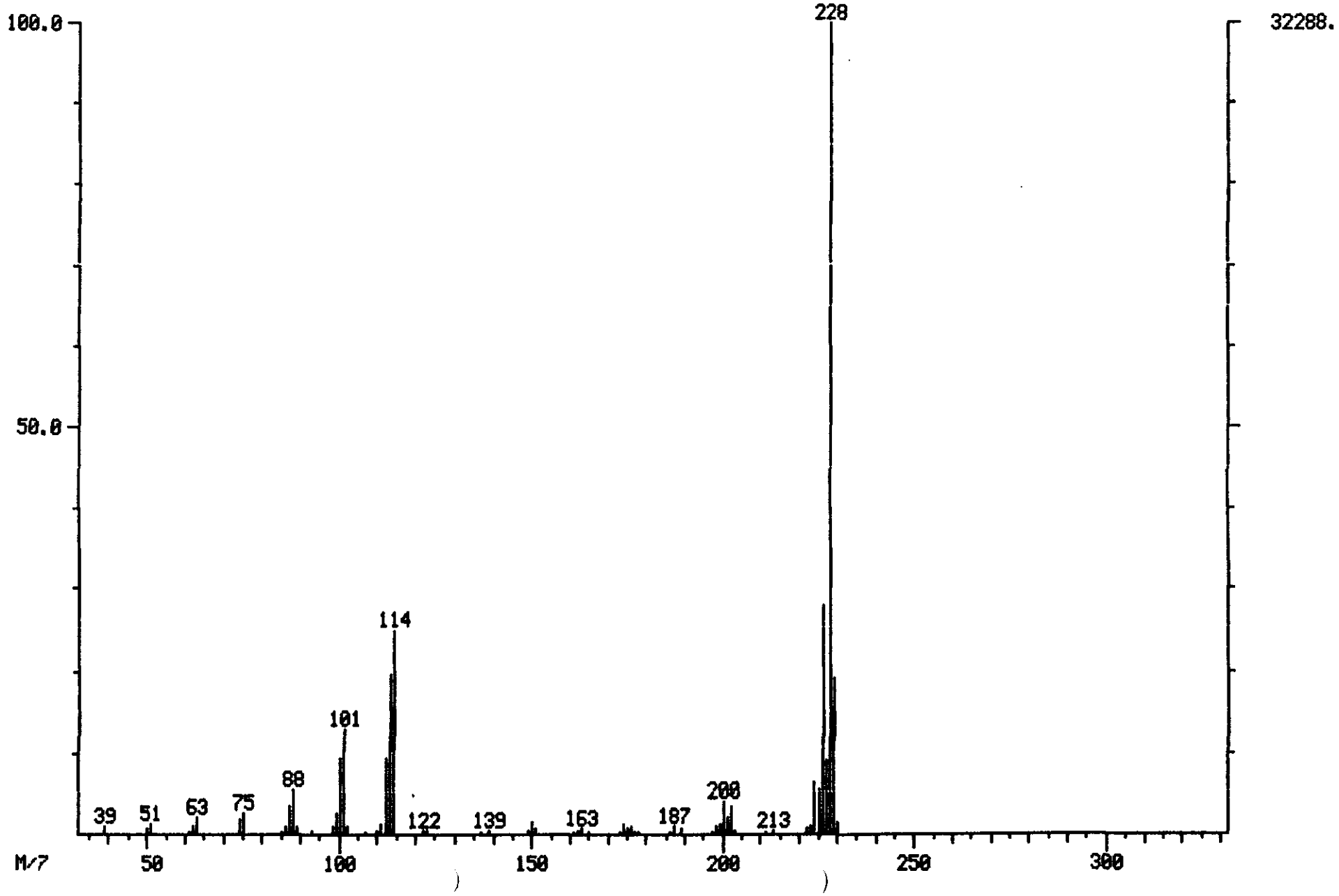
100549



MASS SPECTRUM
05/23/90 12:04:00 + 30:53
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C730 BENZO(A)ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #1853
CALI: T2726 #2

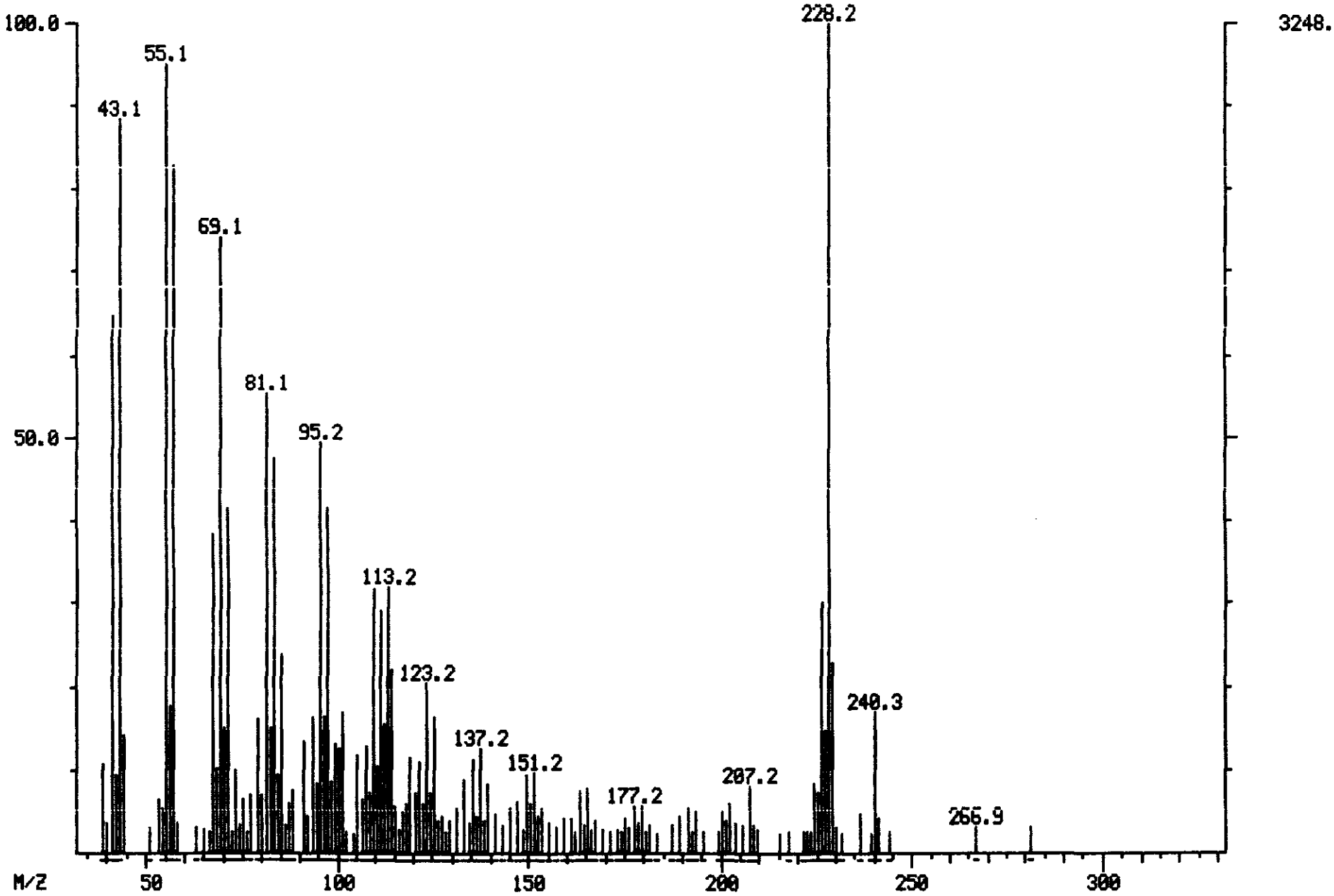
BASE M/Z: 228
RIC: 99072.



MASS SPECTRUM
05/23/90 18:32:00 + 31:02
SAMPLE: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30200C/MIN
** NAME: C740 CHRYSENE

DATA: T2732 #1862
CALI: T2732 #2

BASE M/Z: 228
RIC: 59200.



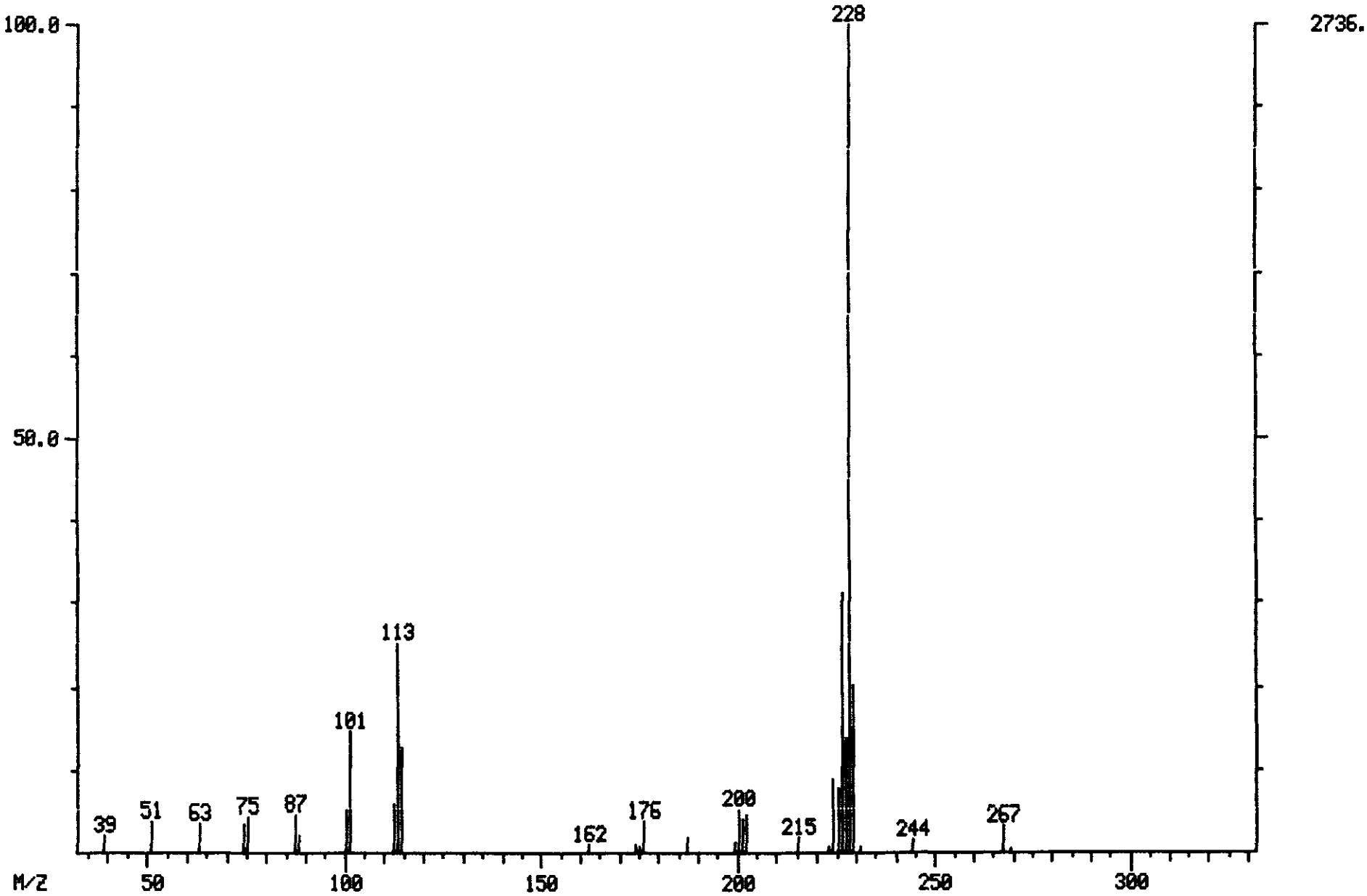
100551

MASS SPECTRUM
05/23/90 18:32:00 + 31:02
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C740 CHRYSENE
ENHANCED (S 15B 2N 0T)

DATA: T2732 #1862
CALI: T2732 #2

BASE M/Z: 228
RIC: 8304.

100552

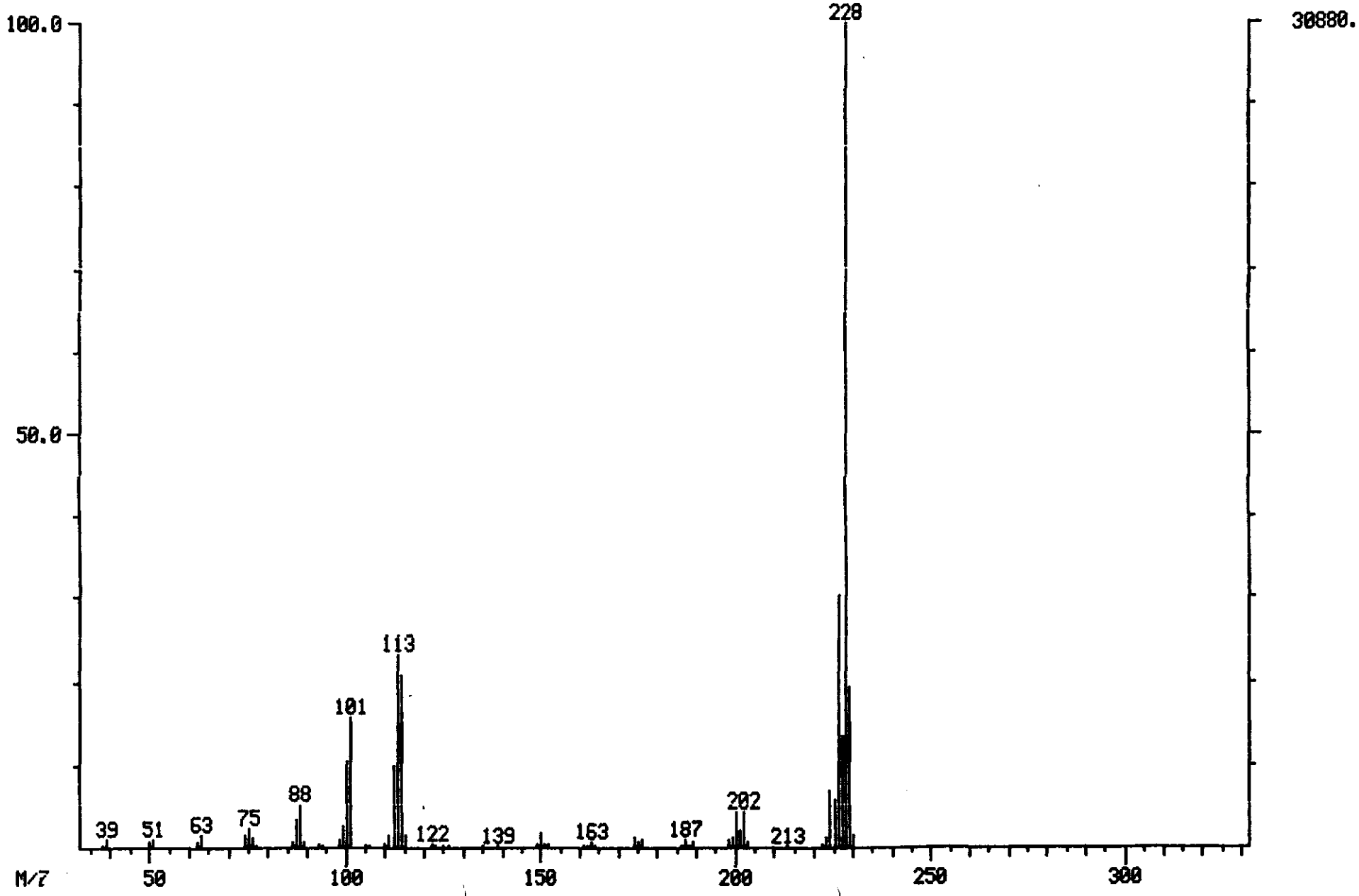


100553

MASS SPECTRUM
05/23/90 12:04:00 + 31:01
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C740 CHRYSENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #1861
CALI: T2726 #2

BASE M/Z: 228
RIC: 98688.

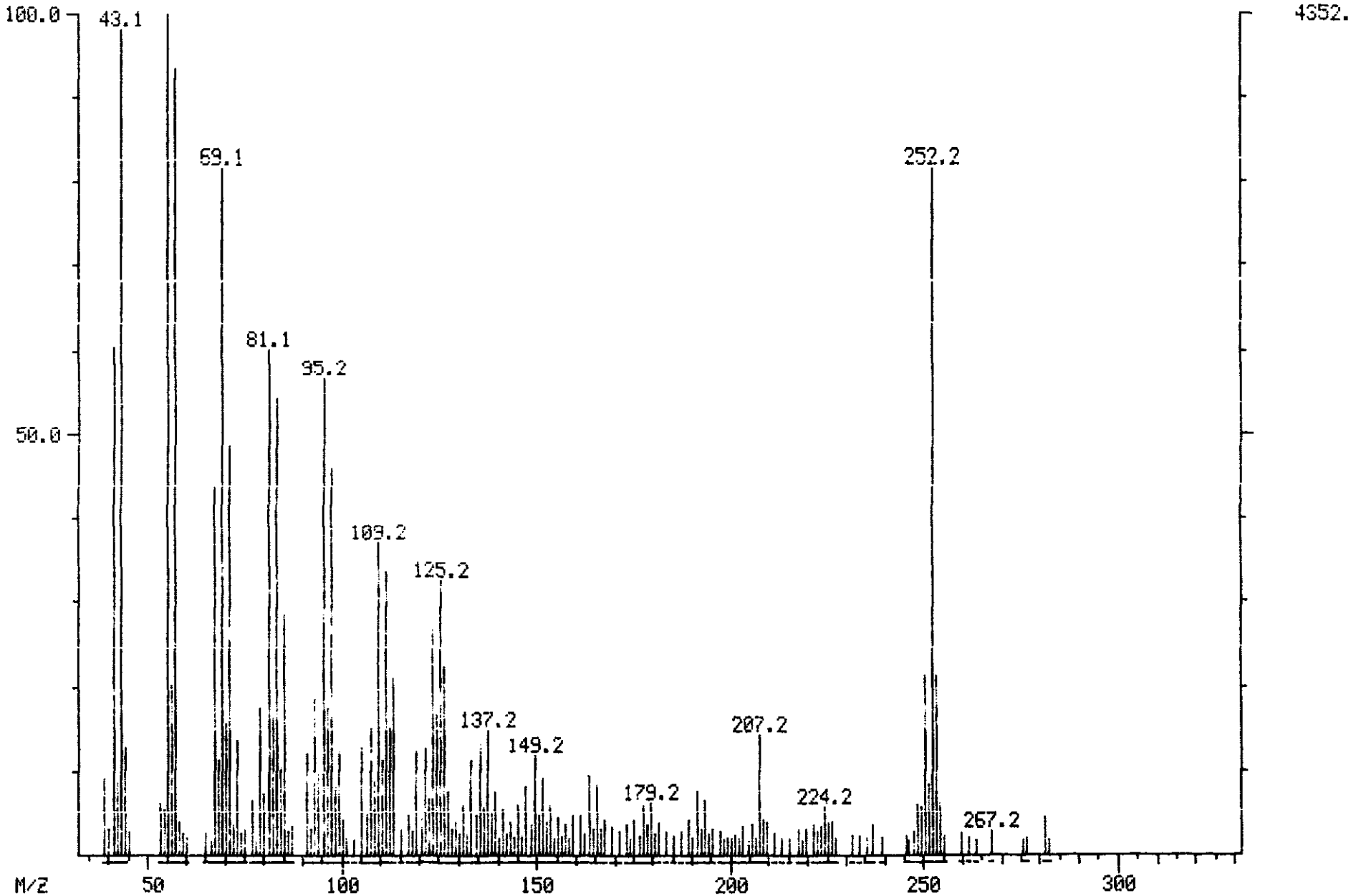


MASS SPECTRUM
05/23/90 18:32:00 + 34:11
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C765 BENZO(B)FLUORANTHENE

DATA: T2732 #2051
CALI: T2732 #2

BASE M/Z: 55
RIC: 85248.

100554

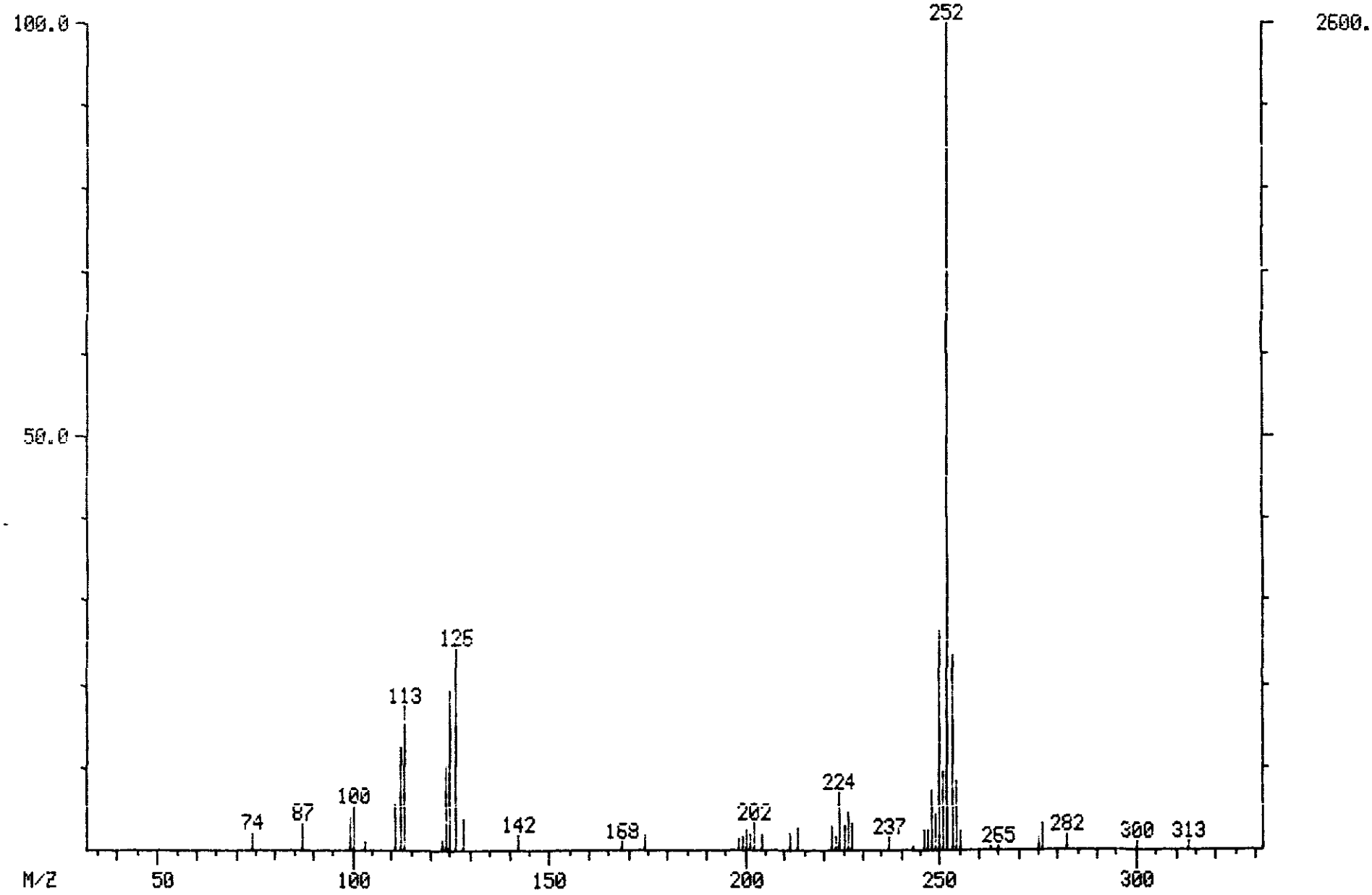


100555

MASS SPECTRUM
05/23/90 18:32:00 + 34:11
SAMPLE: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C765 BENZO(B)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2732 #2051
CALI: T2732 #2

BASE M/Z: 252
RIC: 9248.

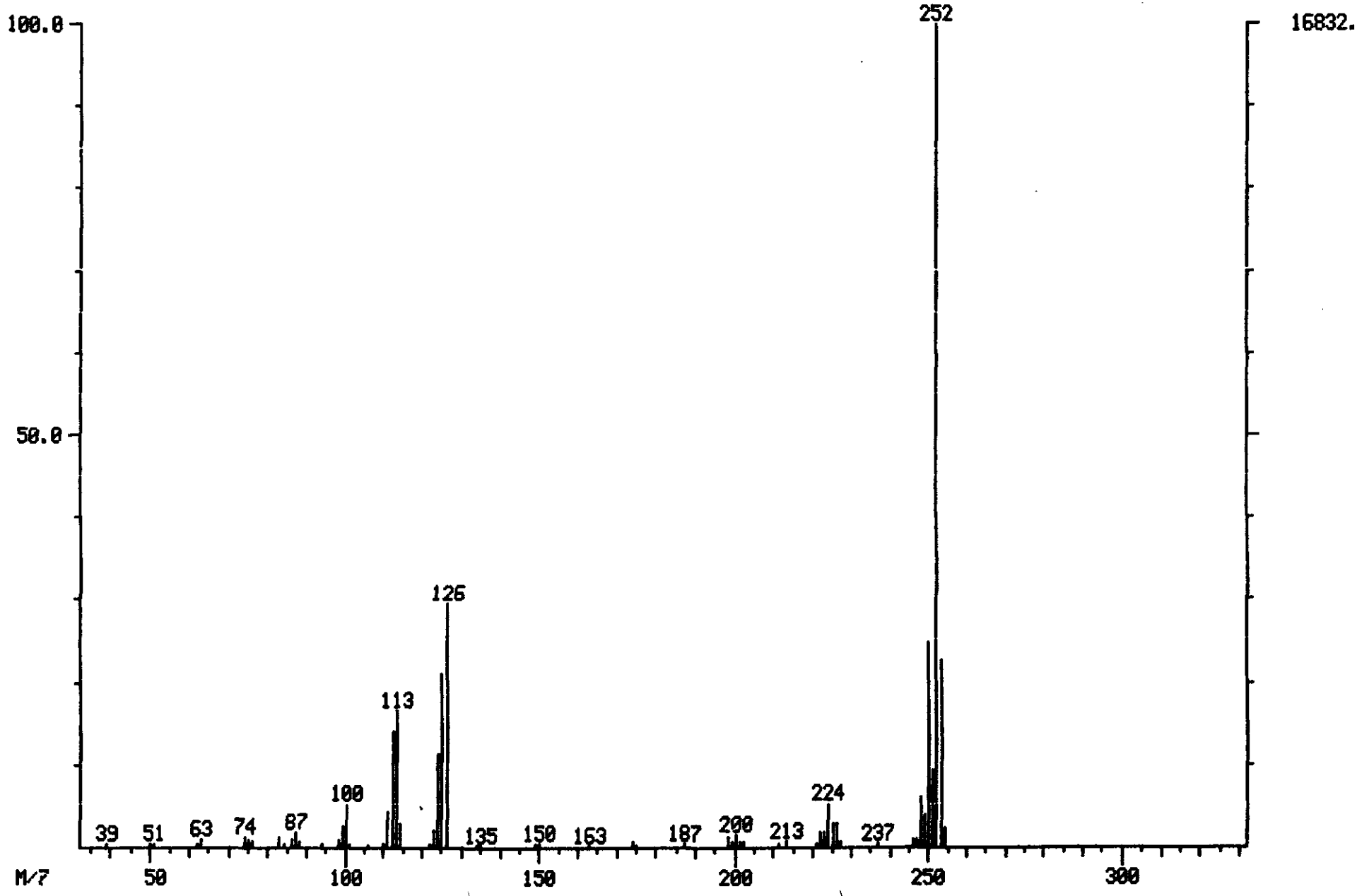


100556

MASS SPECTRUM
05/23/90 12:04:00 + 34:10
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C765 BENZO(B)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #2050
CALI: T2726 #2

BASE M/Z: 252
RIC: 54848.

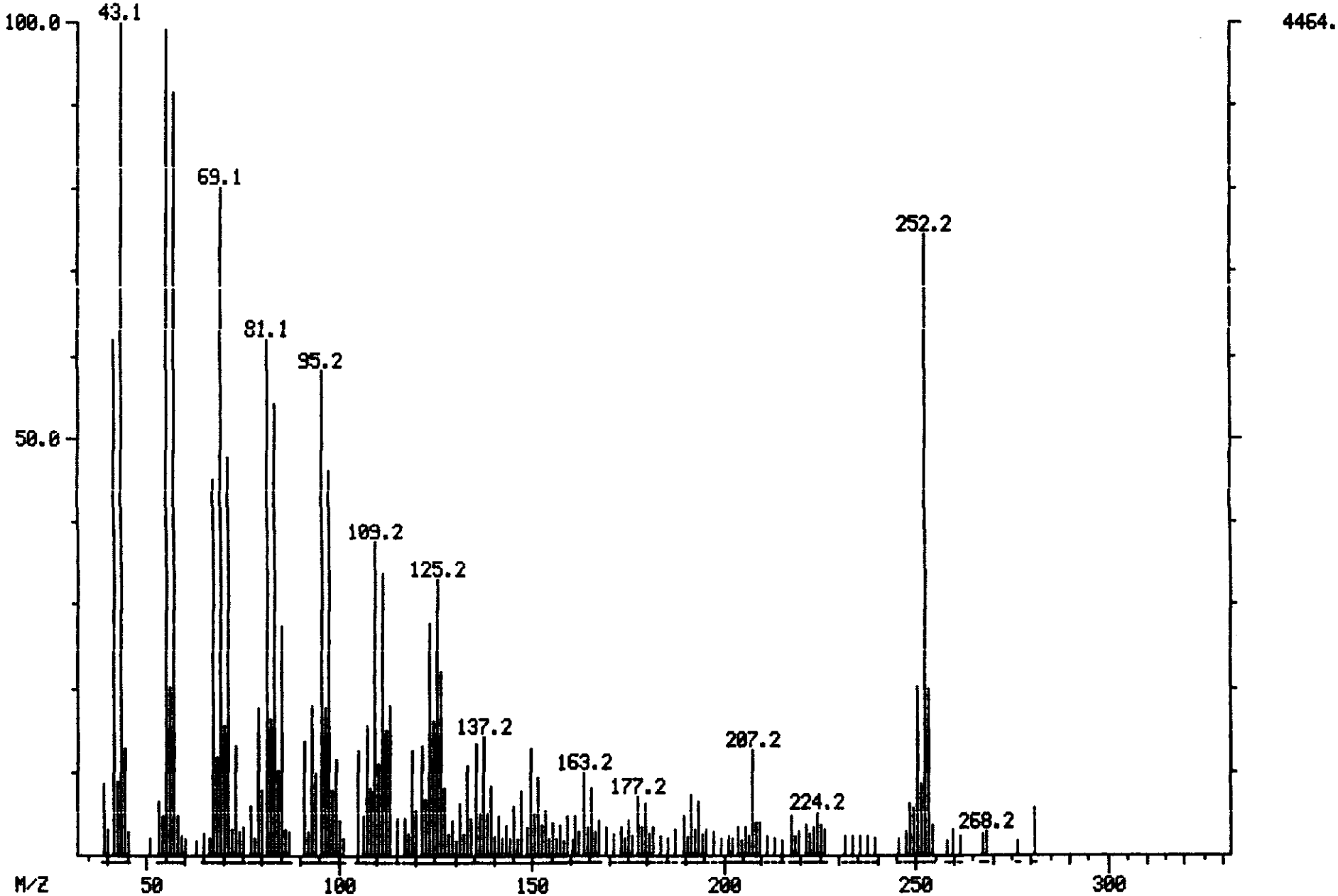


MASS SPECTRUM
05/23/90 18:32:00 + 34:16
SAMPLE: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C770 BENZO(K)FLUORANTHENE

DATA: T2732 #2056
CALI: T2732 #2

BASE M/Z: 43
RIC: 86144.

100557

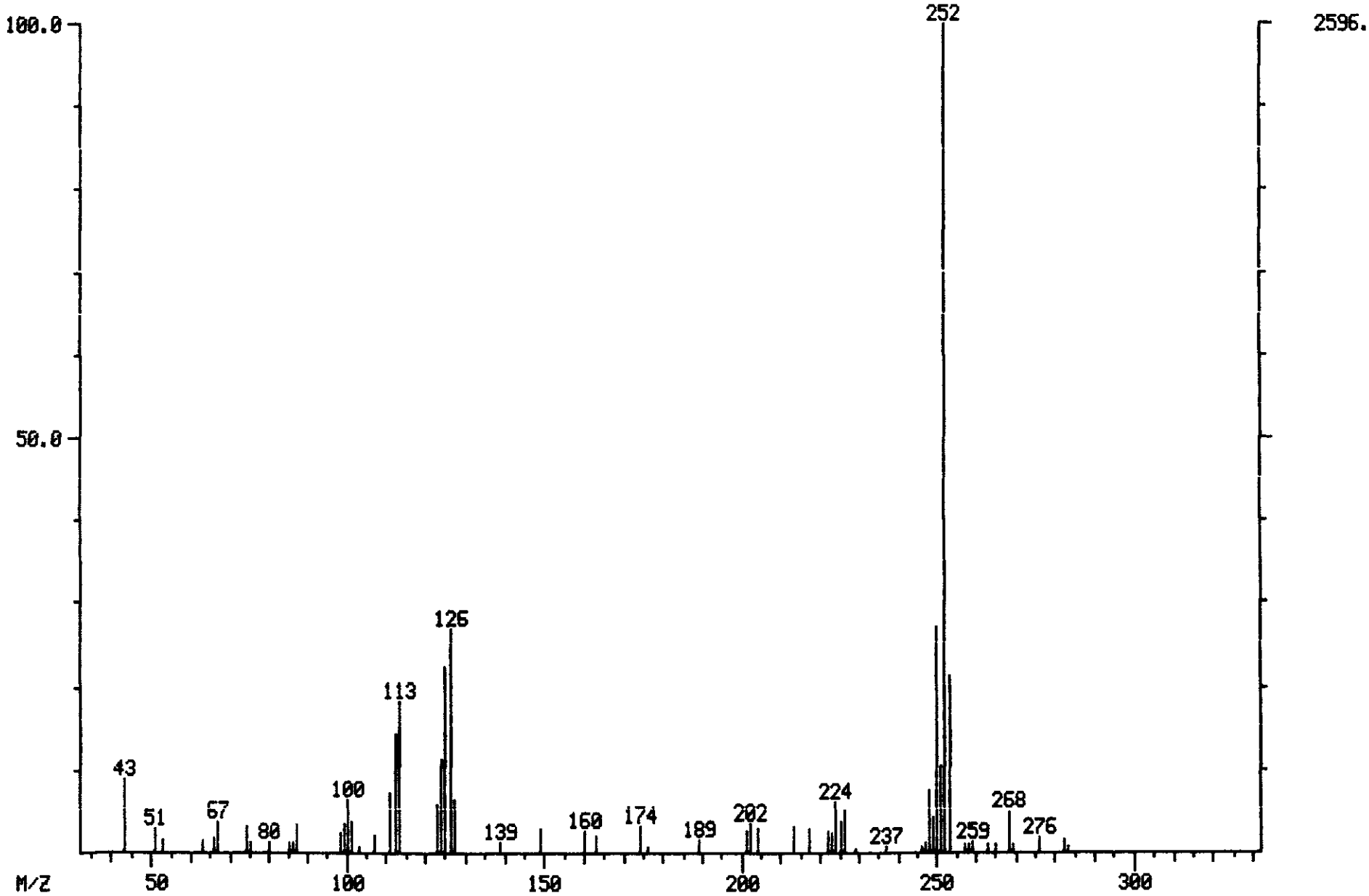


MASS SPECTRUM
05/23/90 18:32:00 + 34:16
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C770 BENZO(K)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2732 #2056
CALI: T2732 #2

BASE M/Z: 252
RIC: 10592.

100558

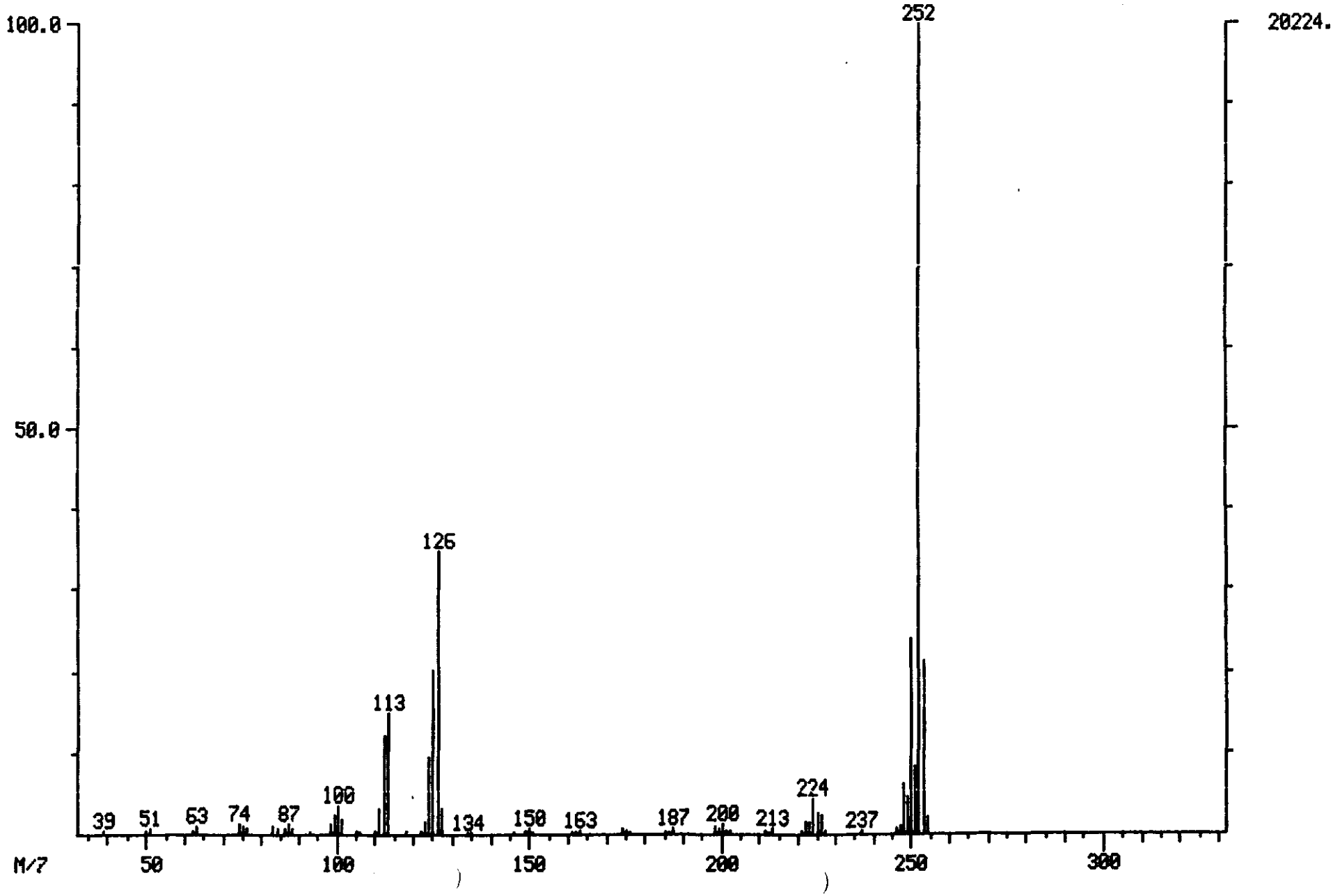


100559

MASS SPECTRUM
05/23/90 12:04:00 + 34:15
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C770 BENZO(K)FLUORANTHENE
ENHANCED (5 15B 2N 0T)

DATA: T2726 #2055
CALI: T2726 #2

BASE M/Z: 252
RIC: 64512.

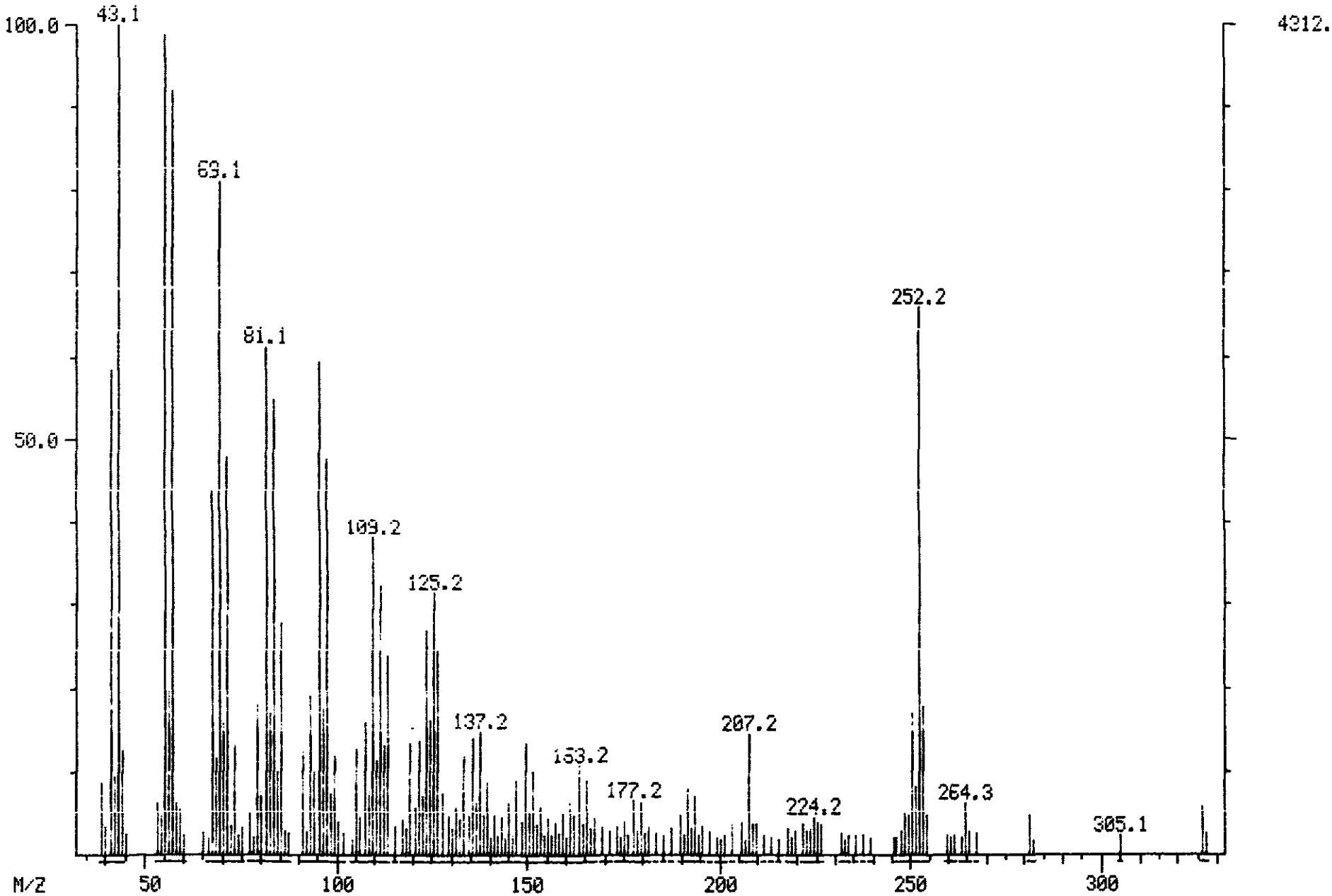


MASS SPECTRUM
05/23/90 18:32:00 + 35:23
SAMPLE: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C775 BENZO(A)PYRENE

DATA: T2732 #2123
CALI: T2732 #2

BASE M/Z: 43
RIC: 85376.

100560

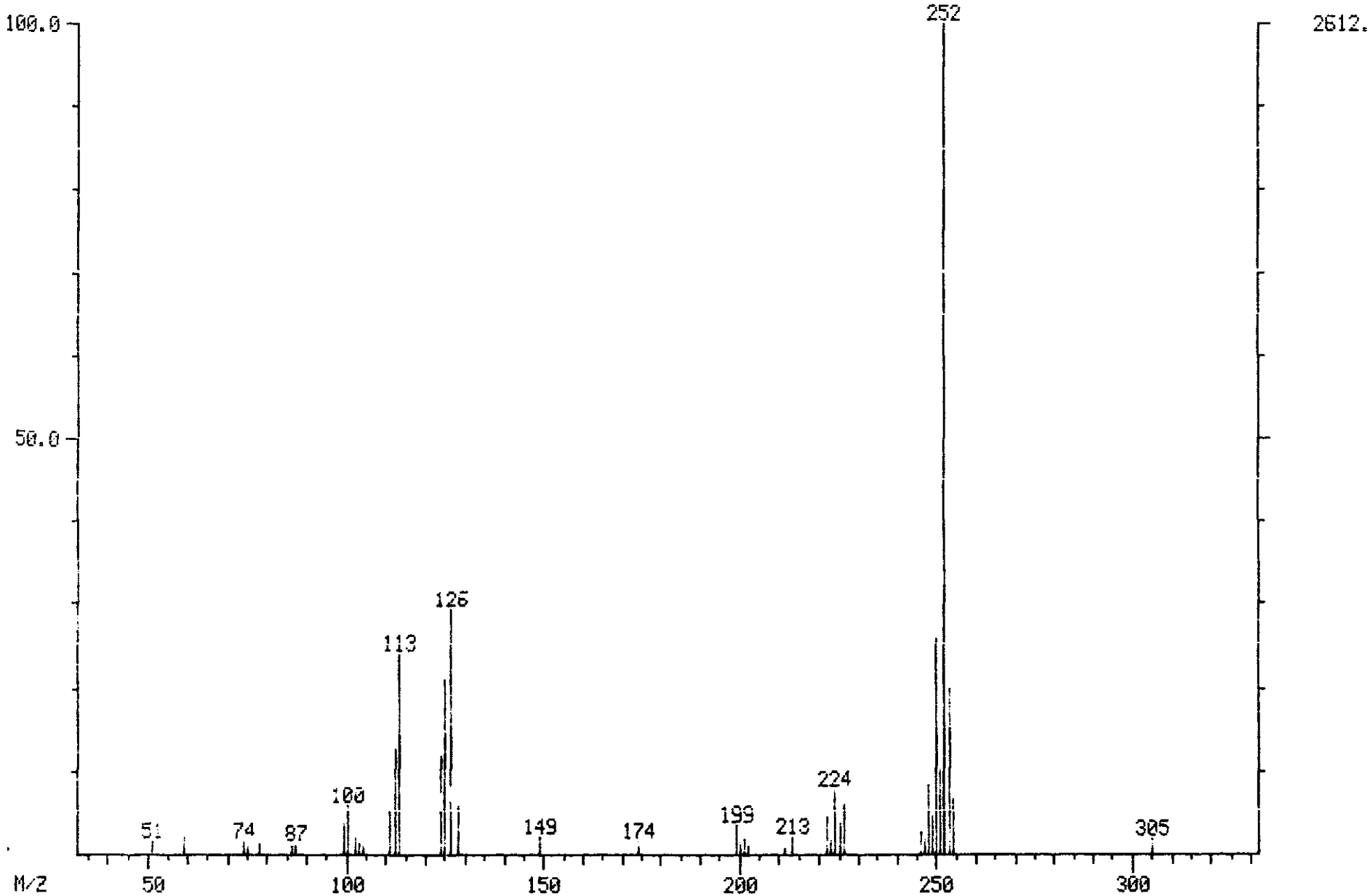


100561

MASS SPECTRUM
05/23/90 18:32:00 + 35:23
SAMPLE: CLP,VERSCOM,2565,15,L,5,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C775 BENZO(A)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2732 #2123
CALI: T2732 #2

BASE M/Z: 252
RIC: 9392.

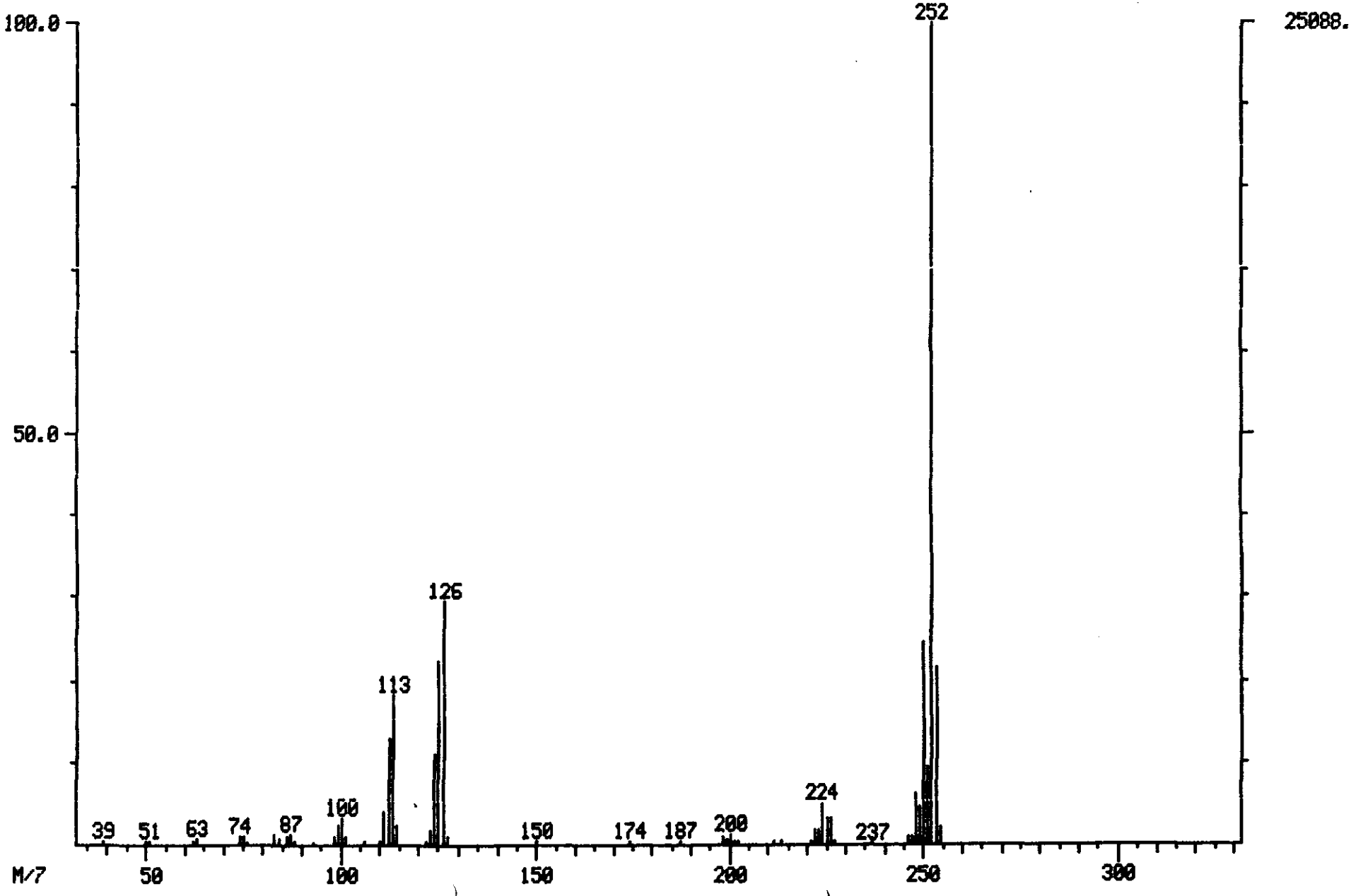


100562

MASS SPECTRUM
05/23/90 12:04:00 + 35:21
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C775 BENZO(A)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #2121
CALI: T2726 #2

BASE M/Z: 252
RIC: 80000.

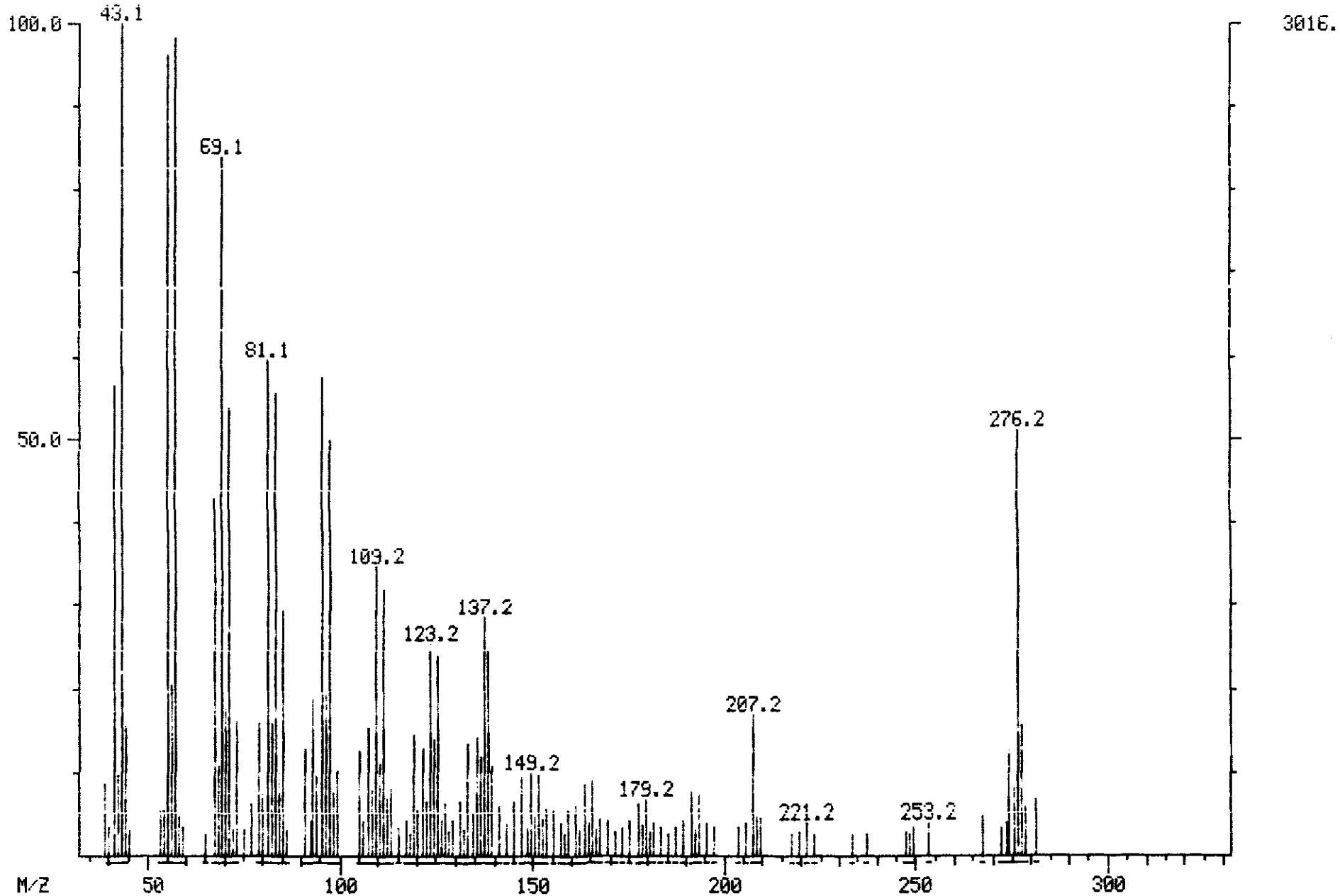


100563

MASS SPECTRUM
05/23/90 18:32:00 + 40:49
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C780 INDENO(1,2,3-CD)PYRENE

DATA: T2732 #2449
CALI: T2732 #2

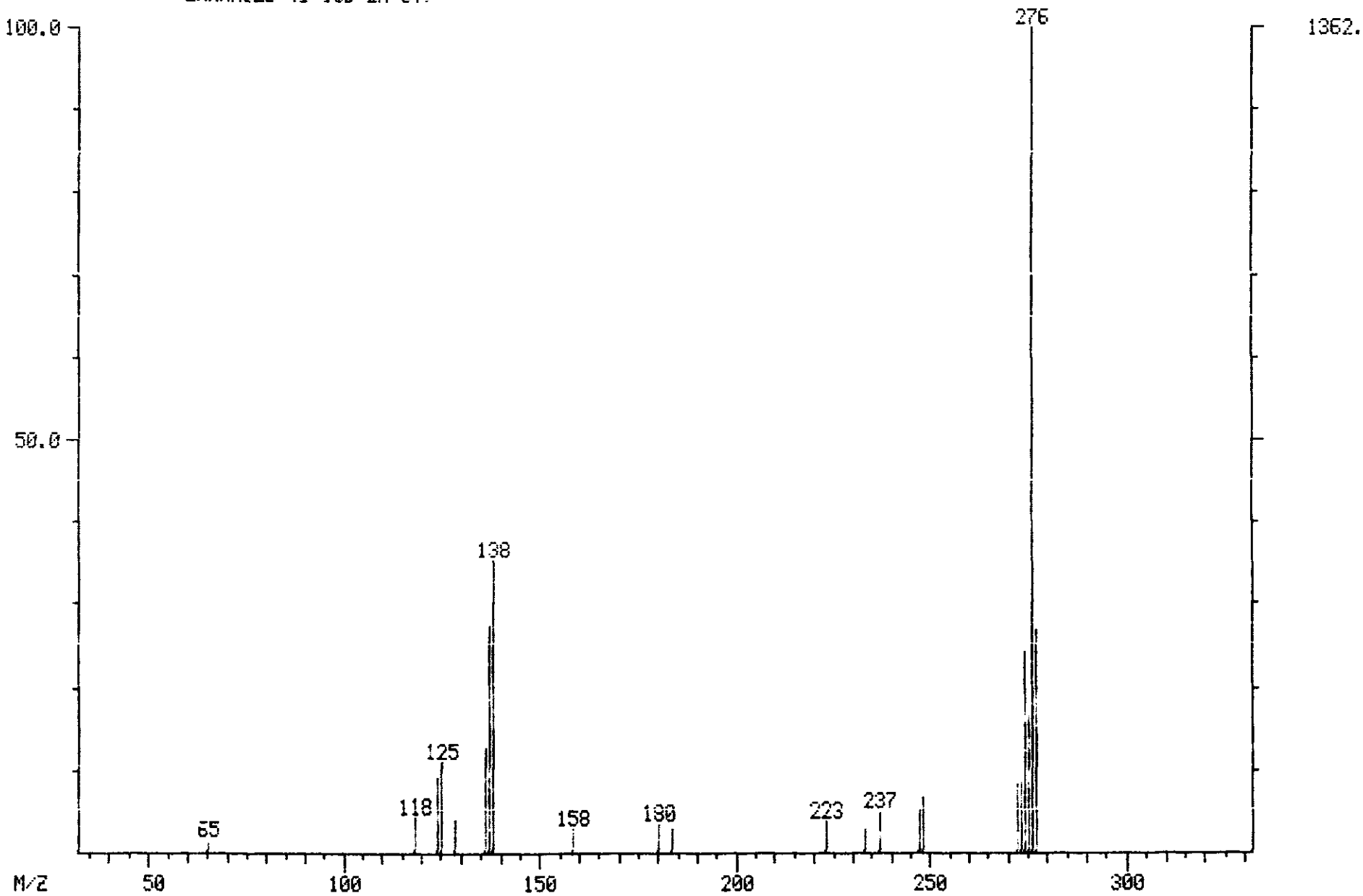
BASE M/Z: 43
RIC: 54976.



MASS SPECTRUM
05/23/90 18:32:00 + 40:49
SAMPLE: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C780 INDENO(1,2,3-CD)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2732 #2449
CALI: T2732 #2

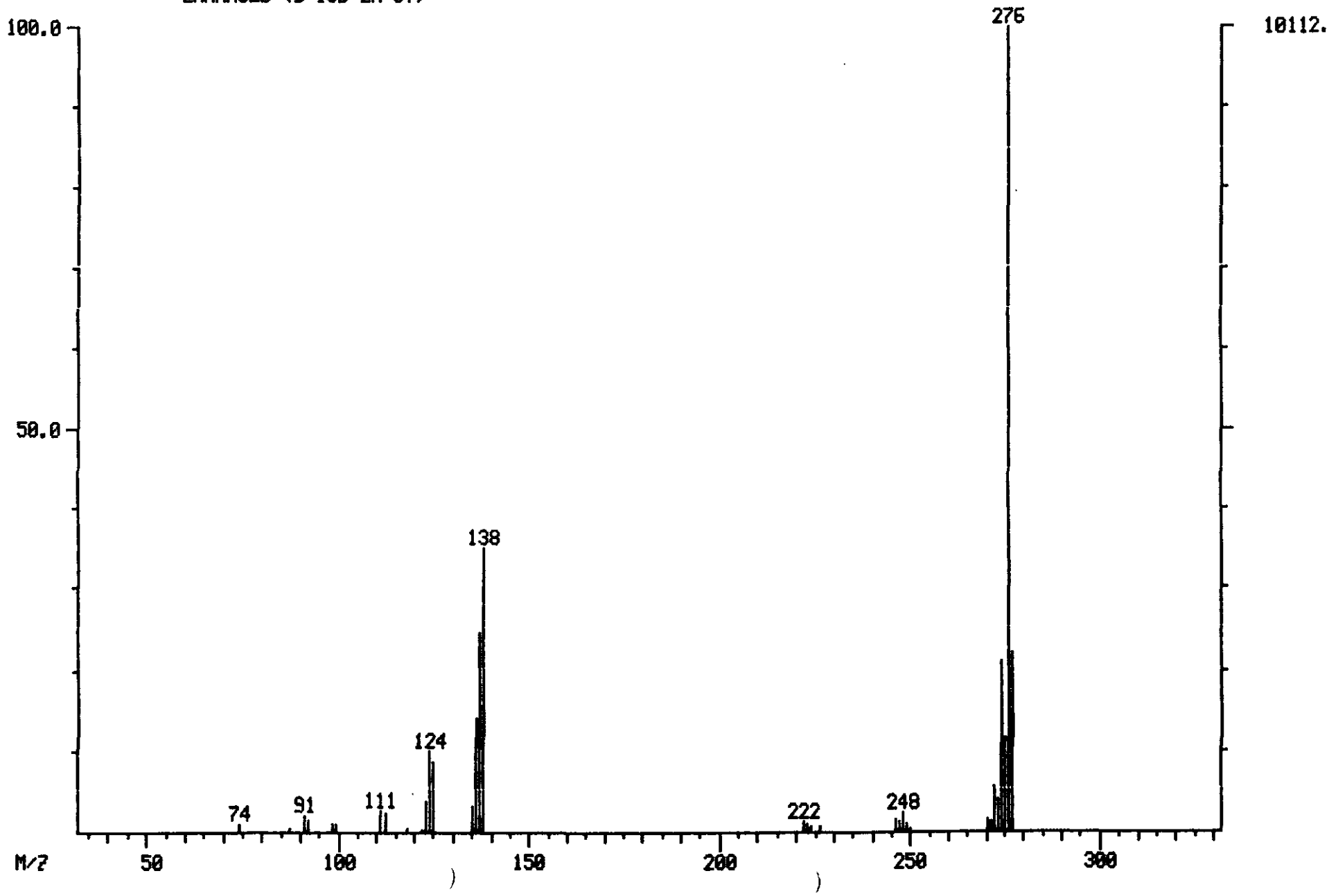
BASE M/Z: 276
RIC: 4424.



MASS SPECTRUM
05/23/90 12:04:00 + 40:48
SAMPLE: CLP,,,SSTD 50,,,22784,B,,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C780 INDENO(1,2,3-CD)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2726 #2448
CALI: T2726 #2

BASE M/Z: 276
RIC: 29600.



100056E

Library Search Data: T2732 # 297 Base m/z: 43
05/23/90 18:32:00 + 4:57 Cali: T2732 # 2 RIC: 75519.
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
97 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	2776	2-PENTANOL, 2,4-DIMETHYL-
2	806	HYDROPEROXIDE, 1,1-DIMETHYLETHYL
3	1334	OXIRANE, TETRAMETHYL-
4	9176	2-HEXANONE, 6-(ACETYLOXY)-
5	2696	1,3-DIOXOLANE, 2,2,4-TRIMETHYL-

B

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H16.O	116	59	744	781	761
2	C4.H10.O2	90	59	730	889	737
3	C6.H12.O	100	59	670	829	678
4	C8.H14.O3	158	43	659	690	685
5	C6.H12.O2	116	43	646	709	814

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	625-06-9
2	—	—	—	—	75-91-2
3	—	—	—	—	5076-20-0
4	—	—	—	—	4305-26-4
5	—	—	—	—	1193-11-9

✓

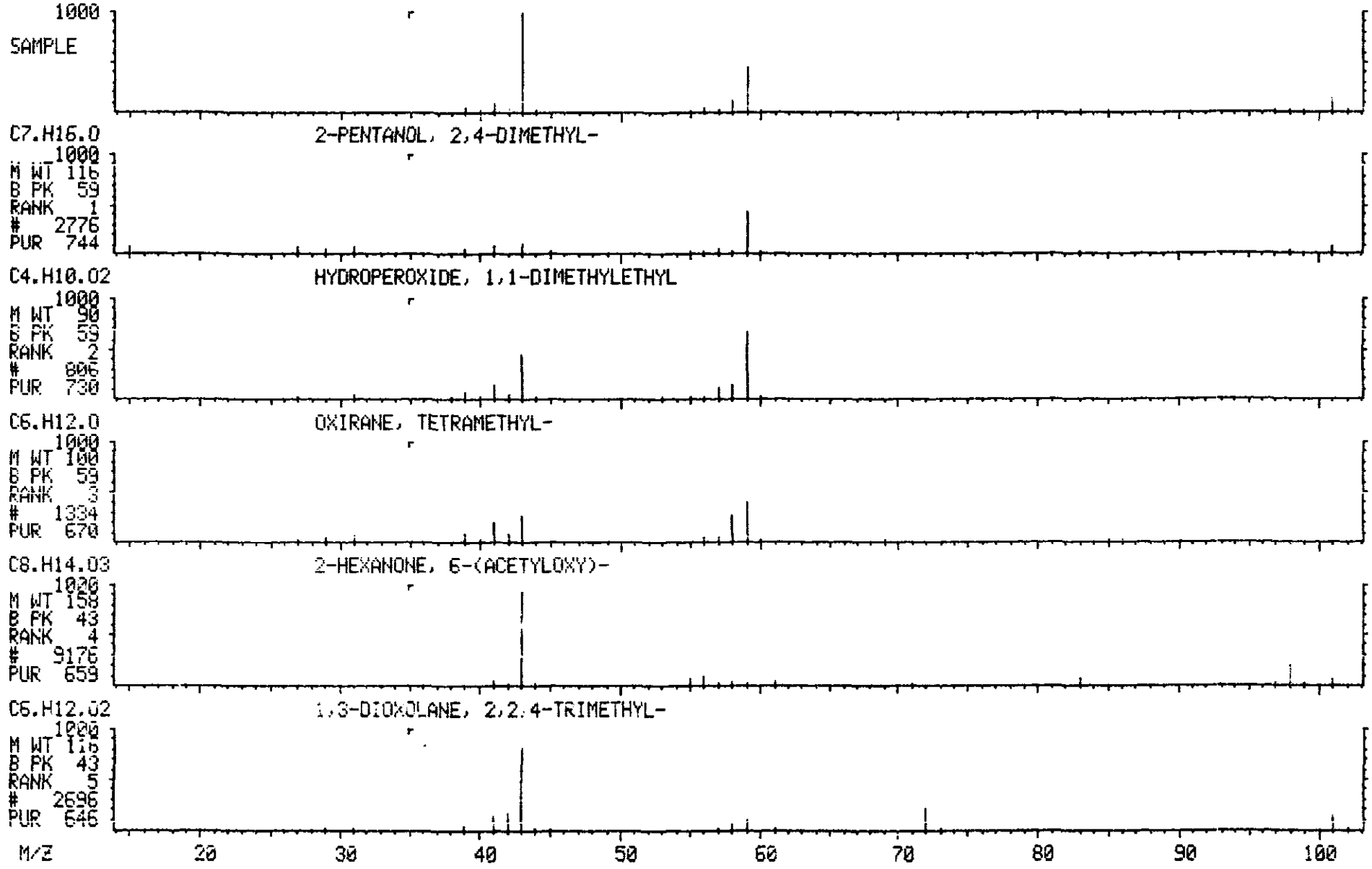
100566

100567

LIBRARY SEARCH
05/23/90 18:32:00 + 4:57
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2732 # 297
CALI: T2732 # 2

BASE M/Z: 43
RIC: 75519.



Library Search Data: T2732 # 317 Base m/z: 43
05/23/90 18:32:00 + 5:17 Cali: T2732 # 2 RIC: 51455.
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
229 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	4411	1-HEPTANOL, 6-METHYL-
2	6635	1-HEPTANOL, 2,4-DIMETHYL-, (R,R)-(+)-
3	20456	ACETIC ACID, TRIFLUORO-, OCTYL ESTER
4	4435	ISOOCTANOL
5	9380	DECANE, 1-FLUORO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H18.O	130	41	776	901	776
2	C9.H20.O	144	43	771	895	790
3	C10.H17.O2.F3	226	41	742	877	761
4	C8.H18.O	130	43	740	901	740
5	C10.H21.F	160	43	733	902	743

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	1653-40-3
2	—	—	—	—	18450-73-2
3	—	—	—	—	2561-21-9
4	—	—	—	—	26952-21-6
5	—	—	—	—	334-56-5

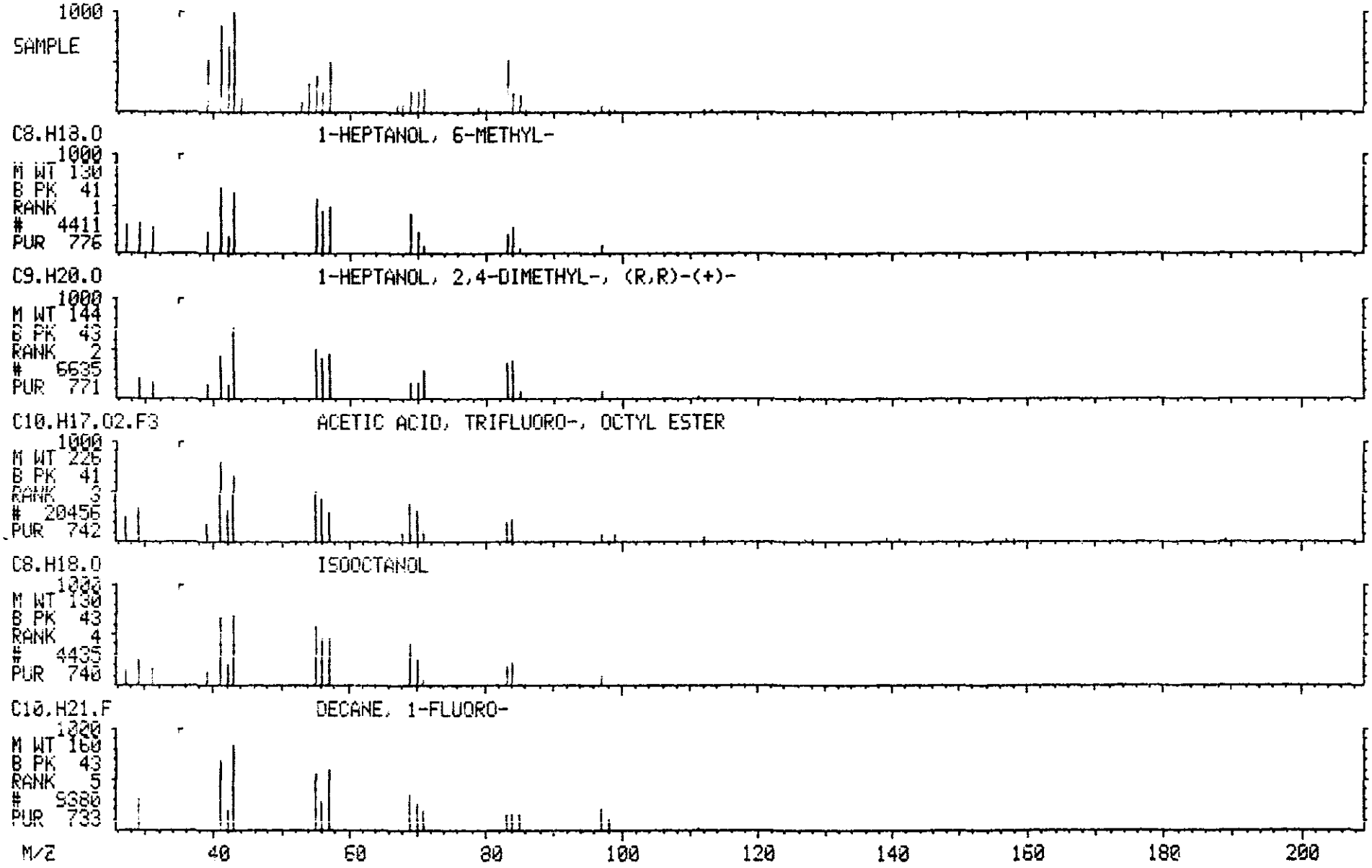
✓

100569

LIBRARY SEARCH
05/23/90 18:32:00 + 5:17
SAMPLE: CLP,VERSCDM,2565,15,L,S,16917,6,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2732 # 317
CALI: T2732 # 2

BASE M/Z: 43
RIC: 51455.



Library Search Data: T2732 # 326 Base m/z: 57
05/23/90 18:32:00 + 5:26 Cali: T2732 # 2 RIC: 21919
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
62 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6103	HEPTANE, 4-(1-METHYLETHYL)-
2	6082	HEPTANE, 2,3,6-TRIMETHYL-
3	4136	HEXANE, 4-ETHYL-2-METHYL-
4	6081	HEPTANE, 4-PROPYL-
5	6087	OCTANE, 2,3-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22	142	57	935	973	941
2	C10.H22	142	57	924	962	925
3	C9.H20	128	57	921	942	921
4	C10.H22	142	57	920	954	939
5	C10.H22	142	57	913	951	921

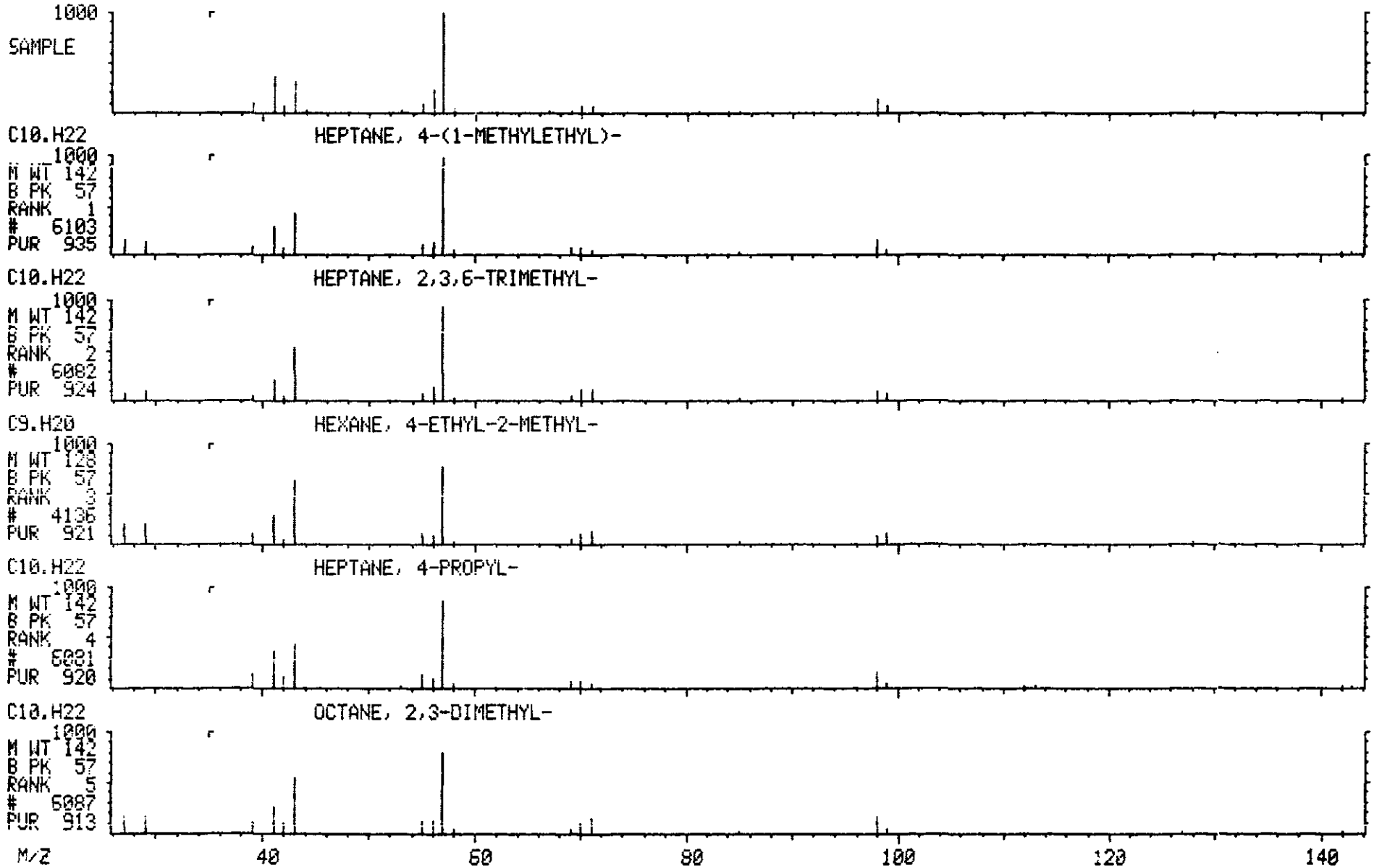
Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	52896-87-4
2	—	—	—	—	4032-93-3
3	—	—	—	—	3074-75-7
4	—	—	—	—	3178-29-8
5	—	—	—	—	7146-60-3

LIBRARY SEARCH
05/23/90 18:32:00 + 5:26
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2732 # 326
CALI: T2732 # 2

BASE M/Z: 57
RIC: 21919.

T00571



Library Search Data: T2732 # 353 Base m/z: 70
05/23/90 18:32:00 + 5:53 Cali: T2732 # 2 RIC: 13311
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
239 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1085	2-CYCLOHEXEN-1-OL
2	11059	UNDECANE, 3-METHYLENE-
3	1109	3-PENTENAL, 4-METHYL-
4	11064	1-UNDECENE, 9-METHYL-
5	1155	CYCLOPENTANE, 1,3-DIMETHYL-, TRANS-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H10.O	98	70	803	953	815
2	C12.H24	168	70	726	857	764
3	C6.H10.O	98	41	713	820	722
4	C12.H24	168	70	697	841	737
5	C7.H14	98	70	679	873	679

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	822-67-3
2	—	—	—	—	71138-64-2
3	—	—	—	—	5362-50-5
4	—	—	—	—	74630-41-4
5	—	—	—	—	1759-58-6

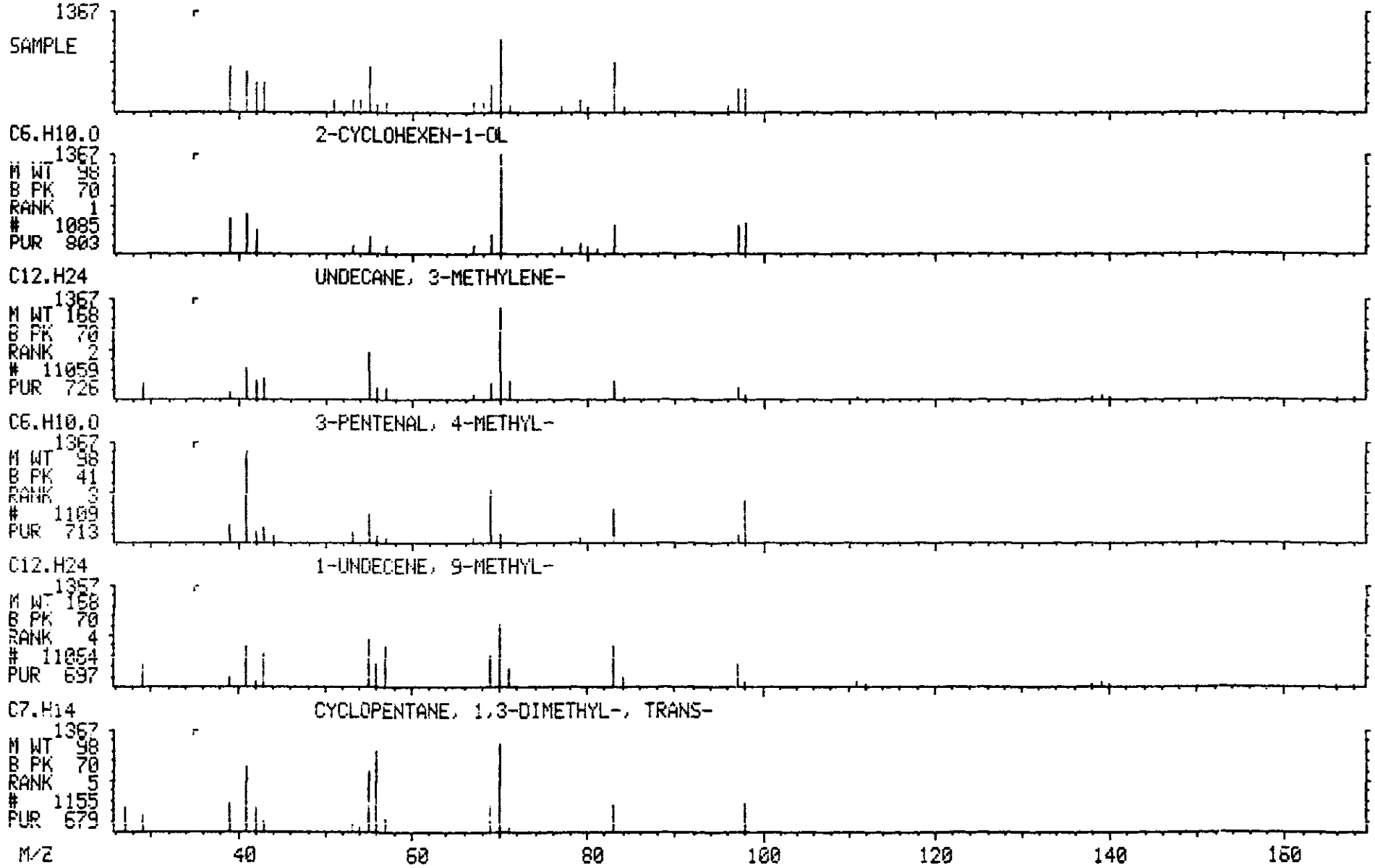
✓

100573

LIBRARY SEARCH
05/23/90 18:32:00 + 5:53
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420,1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2732 # 353
CALI: T2732 # 2

BASE M/Z: 70
RIC: 13311.



Library Search Data: T2732 # 408 Base m/z: 43
05/23/90 16:32:00 + 6:48 Cali: T2732 # 2 RIC: 66047.
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
373 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	2427	ETHANONE, 1-(3-ETHYLOXIRANYL)-
2	10299	HEXANE, 2-BROMO-
3	10300	HEXANE, 3-BROMO-
4	10303	PENTANE, 3-BROMO-3-METHYL-
5	4088	2-HEXANONE, 3,3-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H10.O2	114	43	839	900	866
2	C6.H13.BR	164	43	835	891	871
3	C6.H13.BR	164	43	821	872	857
4	C6.H13.BR	164	43	786	861	824
5	C8.H16.O	128	43	780	829	786

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	17257-81-7
2	—	—	—	—	3377-86-4
3	—	—	—	—	3377-87-5
4	—	—	—	—	25346-31-0
5	—	—	—	—	26118-38-7

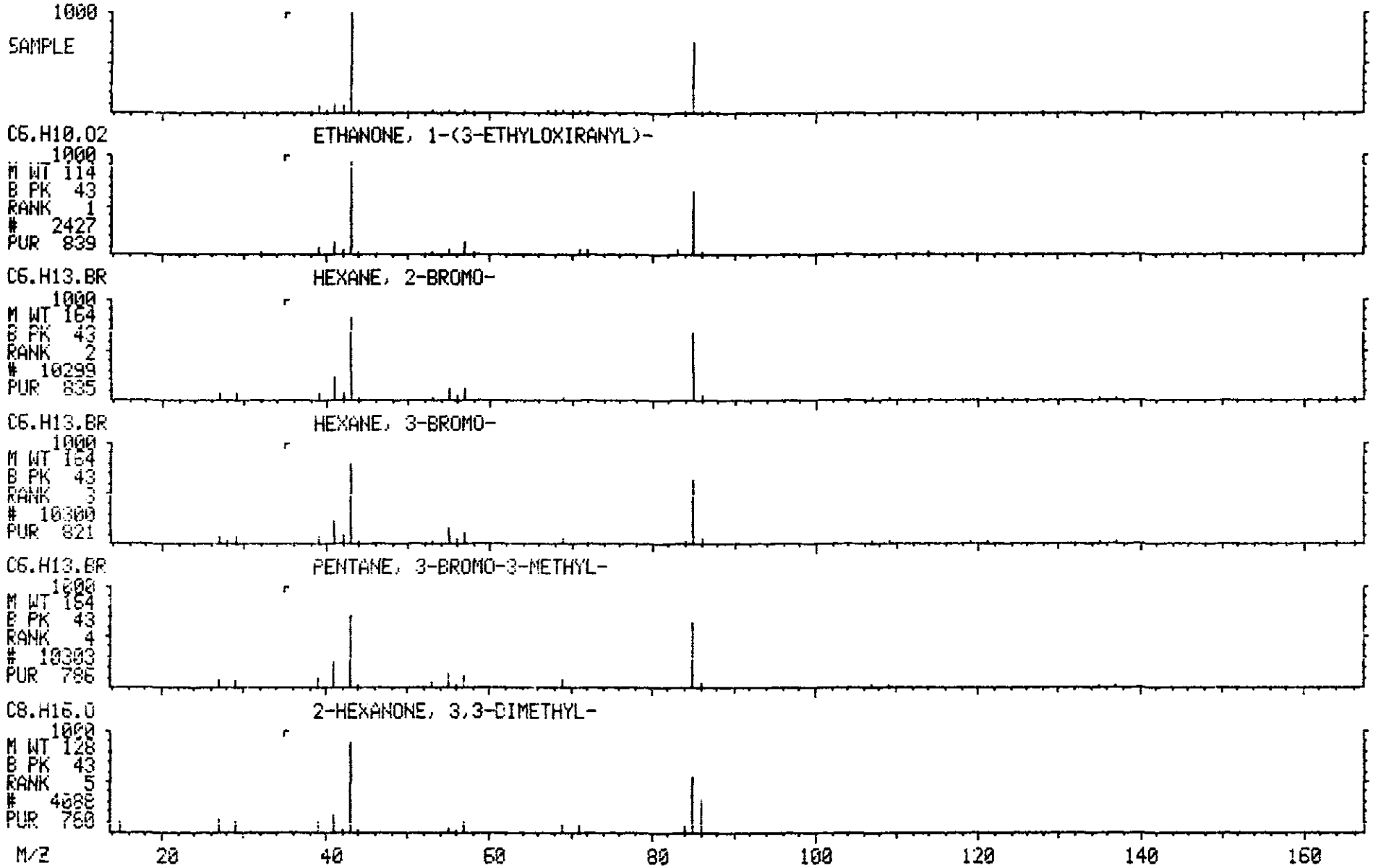
✓

100575

LIBRARY SEARCH
05/23/90 18:32:00 + 6:48
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2732 # 408
CALI: T2732 # 2

BASE M/Z: 43
RIC: 66047.



Library Search Data: T2732 # 433 Base m/z: 43
05/23/90 18:32:00 + 7:13 Cali: T2732 # 2 RIC: 34623
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15R 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
102 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	2176	5-HEXEN-2-ONE, 5-METHYL-
2	2183	3-HEXEN-2-ONE, 5-METHYL-
3	2165	3-PENTEN-2-ONE, 3,4-DIMETHYL-
4	2187	3-HEPTEN-2-ONE, (E)-
5	2169	3-HEPTEN-2-ONE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H12.O	112	43	863	909	880
2	C7.H12.O	112	43	762	800	783
3	C7.H12.O	112	43	687	739	701
4	C7.H12.O	112	55	680	723	736
5	C7.H12.O	112	55	678	720	708

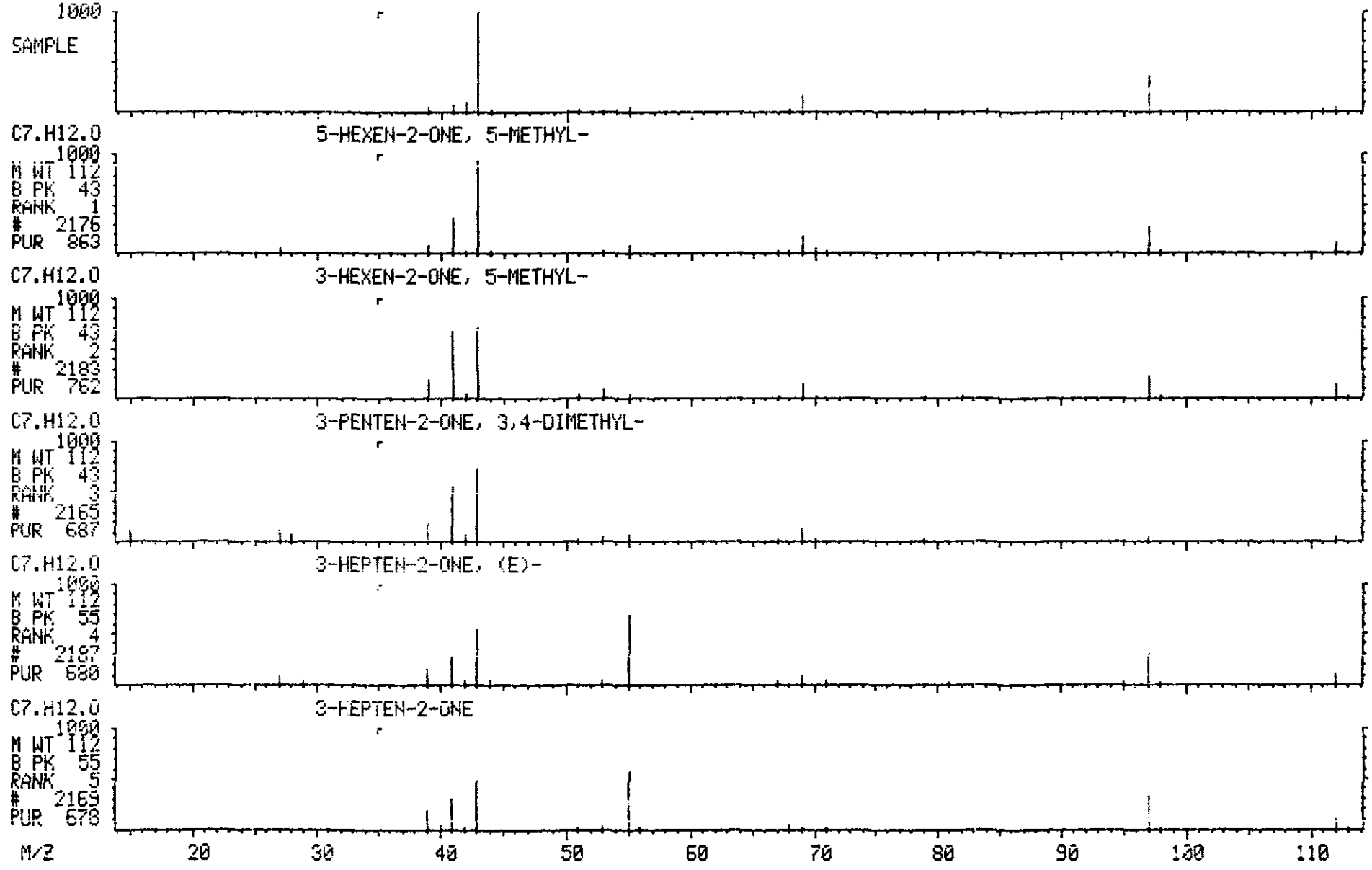
Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	3240-09-3
2	—	—	—	—	5166-53-0
3	—	—	—	—	684-94-6
4	—	—	—	—	5609-09-6
5	—	—	—	—	1119-44-4

LIBRARY SEARCH
05/23/90 18:32:00 + 7:13
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2732 # 433
CALI: T2732 # 2

BASE M/Z: 43
RIC: 34623.

100577



Library Search Data: T2732 # 489 Base m/z: 43
05/23/90 18:32:00 + 8:09 Cali: T2732 # 2 RIC: 166655
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N 01)

42223 spectra in LIBRARYNB searched for maximum PURITY
178 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	6315	3-HEPTANONE, 2,4-DIMETHYL-
2	16936	2H-PYRAN-2,3-DIOL, TETRAHYDRO-, DIACETATE, TRANS-
3	16935	2H-PYRAN-2,3-DIOL, TETRAHYDRO-, DIACETATE, CIS-
4	1264	2,4-PENTANEDIONE
5	6321	ETHER, 3-BUTENYL PENTYL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18.O	142	43	828	932	828
2	C9.H14.O5	202	43	785	860	882
3	C9.H14.O5	202	43	768	845	883
4	C5.H8.O2	100	43	745	910	765
5	C9.H18.O	142	43	708	807	721

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	18641-71-9
2	—	—	—	—	3021-94-1
3	—	—	—	—	2396-74-9
4	—	—	—	—	123-54-6
5	—	—	—	—	34061-78-4

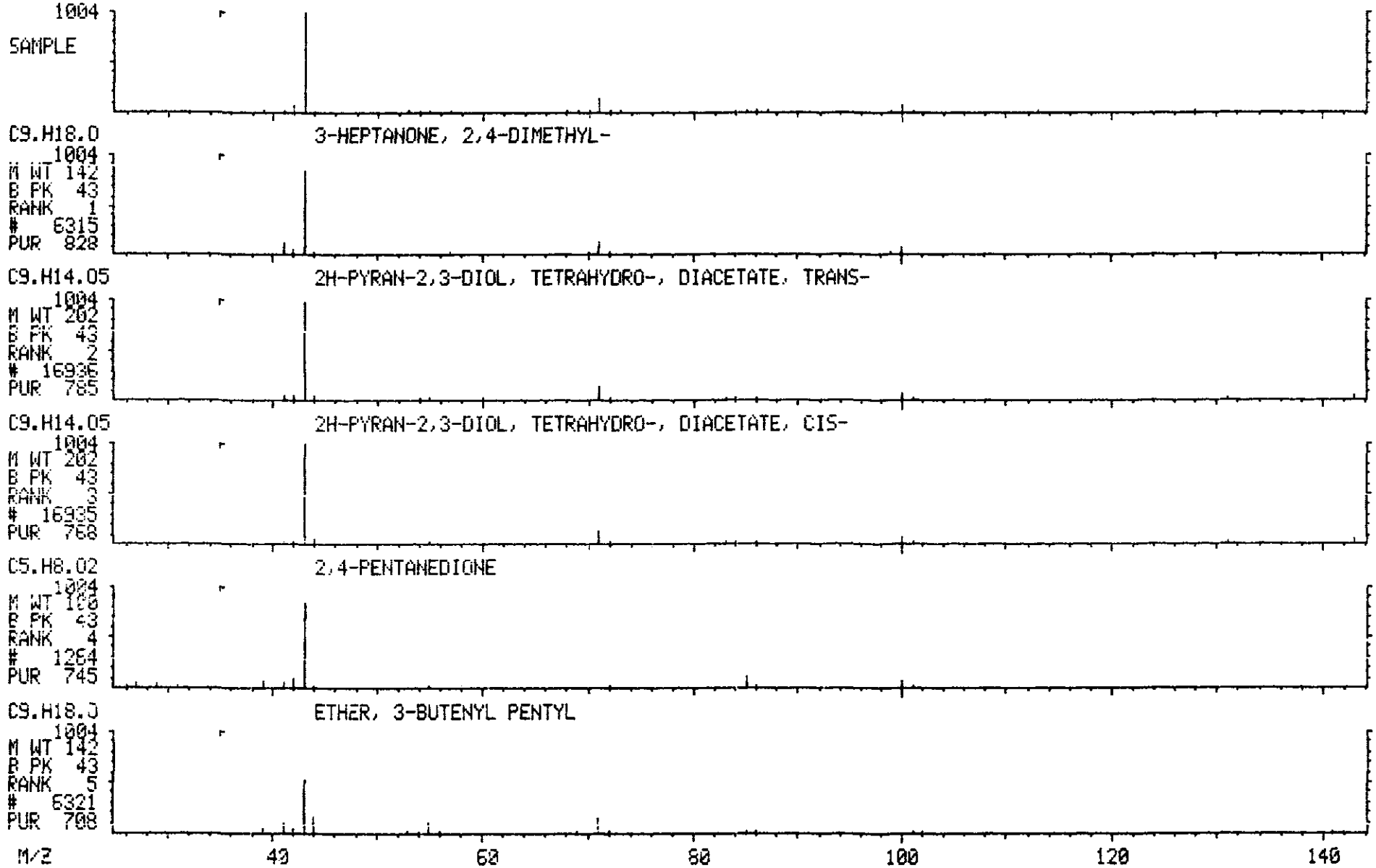
✓

LIBRARY SEARCH
05/23/90 18:32:00 + 8:09
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2732 # 489
CALI: T2732 # 2

BASE M/Z: 43
RIC: 166655.

100579



Library Search Data: T2732 # 564 Base m/z: 43
05/23/90 18:32:00 + 9:24 Cali: T2732 # 2 RIC: 188671.
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
128 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1590	1,2-ETHANEDIOL, MONOACETATE
2	613	ETHANONE, 1-OXIRANYL-
3	4822	1,2,3-PROPANETRIOL, 1-ACETATE
4	2875	BUTANOIC ACID, 3-HYDROXY-, METHYL ESTER
5	6936	HEXANOIC ACID, HYDROXY-, METHYL ESTER

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C4.H8.O3	104	43	683	951	683
2	C4.H6.O2	86	43	651	879	662
3	C5.H10.O4	134	43	628	926	634
4	C5.H10.O3	118	43	604	732	683
5	C7.H14.O3	146	43	582	699	700

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	542-59-6
2	—	—	—	—	4401-11-0
3	—	—	—	—	106-61-6
4	—	—	—	—	1487-49-6
5	—	—	—	—	59942-11-9

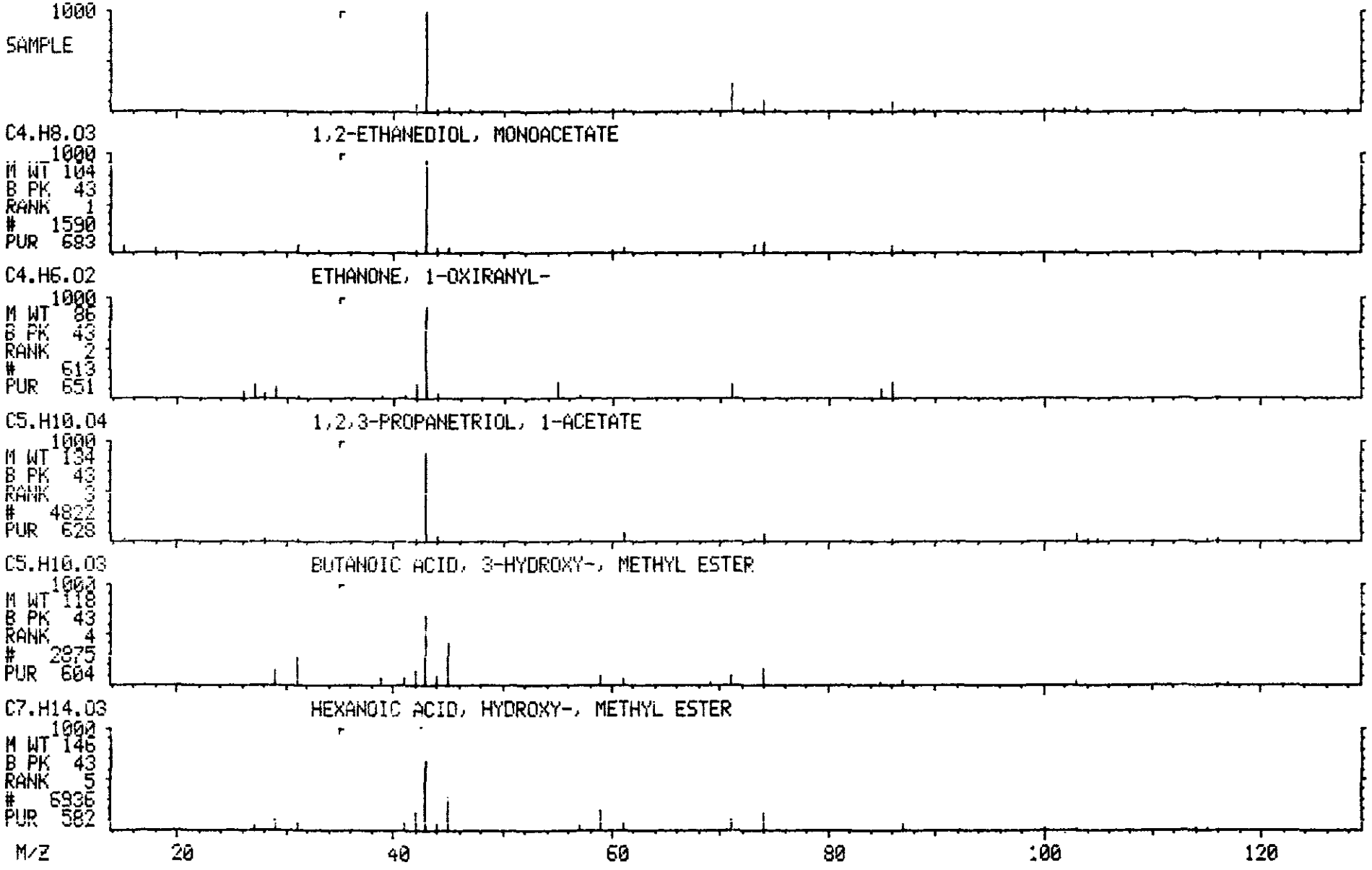
✓

LIBRARY SEARCH
05/23/90 18:32:00 + 9:24
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2732 # 564
CALI: T2732 # 2

BASE M/Z: 43
RIC: 188671.

100581



Library Search Data: T2732 #2009 Base m/z: 59
05/23/90 18:32:00 + 33:29 Cali: T2732 # 2 RIC: 40191.
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
80 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	27222	9-OCTADECENAMIDE, (Z)-
2	11424	CYCLOOCTANEMETHANOL, .ALPHA.,.ALPHA.-DIMETHYL-
3	27224	9-OCTADECENAMIDE
4	11398	4-HEXEN-1-OL, 5-METHYL-2-(1-METHYLETHENYL)-, MONOEPOXIDE
5	1394	PENTANAMIDE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H35.O.N	281	59	458	850	524
2	C11.H22.O	170	59	367	871	382
3	C18.H35.O.N	281	41	366	670	502
4	C10.H18.O2	170	59	364	854	395
5	C5.H11.O.N	101	59	360	808	384

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	301-02-0
2	—	—	—	—	16624-06-9
3	—	—	—	—	3322-62-1
4	—	—	—	—	72509-75-2
5	—	—	—	—	626-97-1

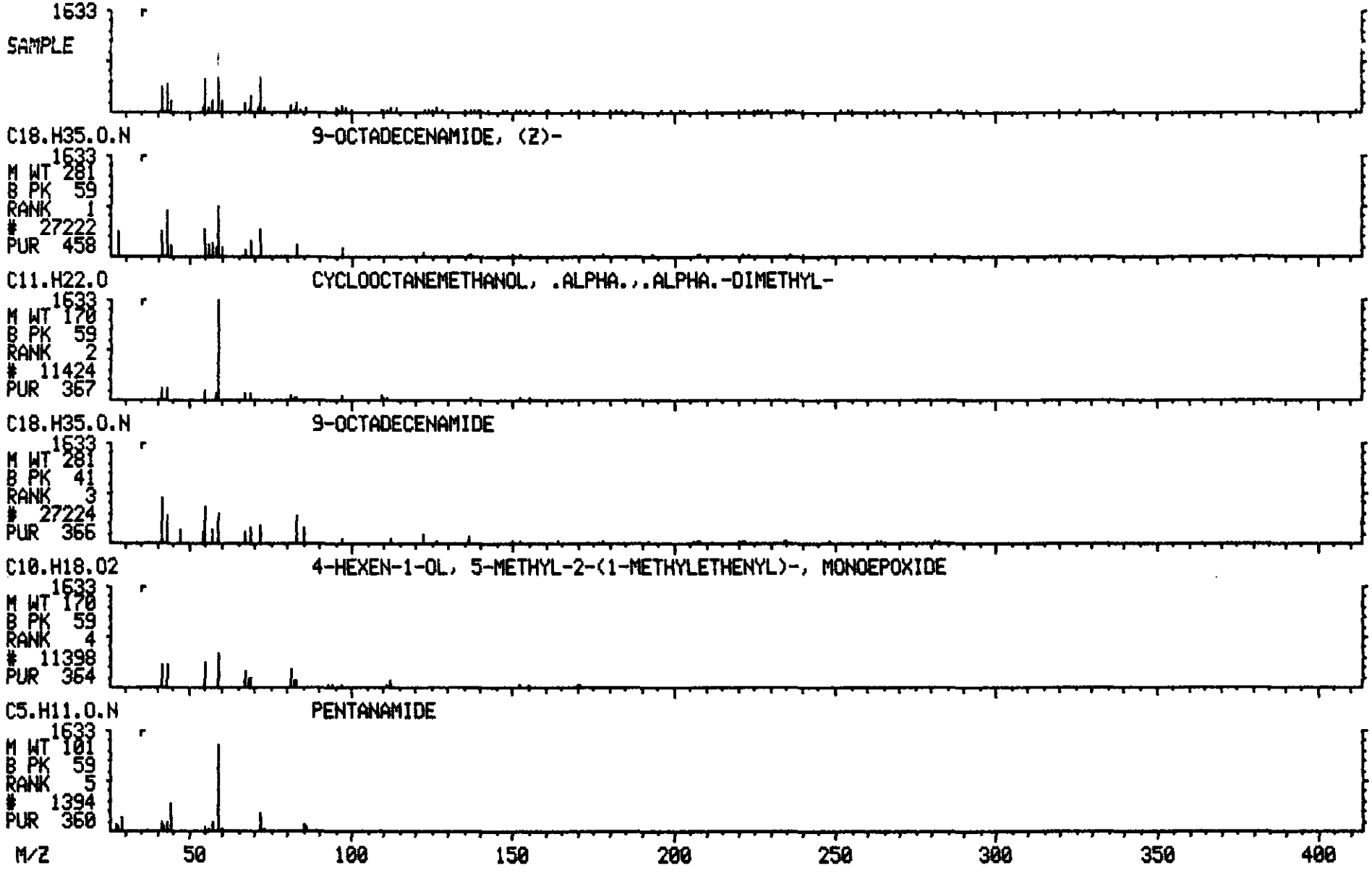
✓

LIBRARY SEARCH
05/23/90 18:32:00 + 33:29
SAMPLE: CLP,VERSCDM,2565,15,L,5,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (5 15B 2N 0T)

DATA: T2732 #2009
CALI: T2732 # 2

BASE M/Z: 59
RIC: 40191.

100583



Library Search Data: T2732 #2074 Base m/z: 57
05/23/90 18:32:00 + 34:34 Cali: T2732 # 2 RIC: 13487.
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
125 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	28843	NONADECANE, 2,3-DIMETHYL-
2	25855	OCTADECANE, 2-METHYL-
3	27354	NONADECANE, 3-METHYL-
4	30172	HENEICOSANE, 5-METHYL-
5	28837	EICOSANE, 2-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C21.H44	296	43	592	924	615
2	C19.H40	268	57	583	835	596
3	C20.H42	282	57	581	842	611
4	C22.H46	310	43	566	823	615
5	C21.H44	296	57	561	797	631

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	75163-99-4
2	—	—	—	—	1560-88-9
3	—	—	—	—	6418-45-7
4	—	—	—	—	25117-37-7
5	—	—	—	—	1560-84-5

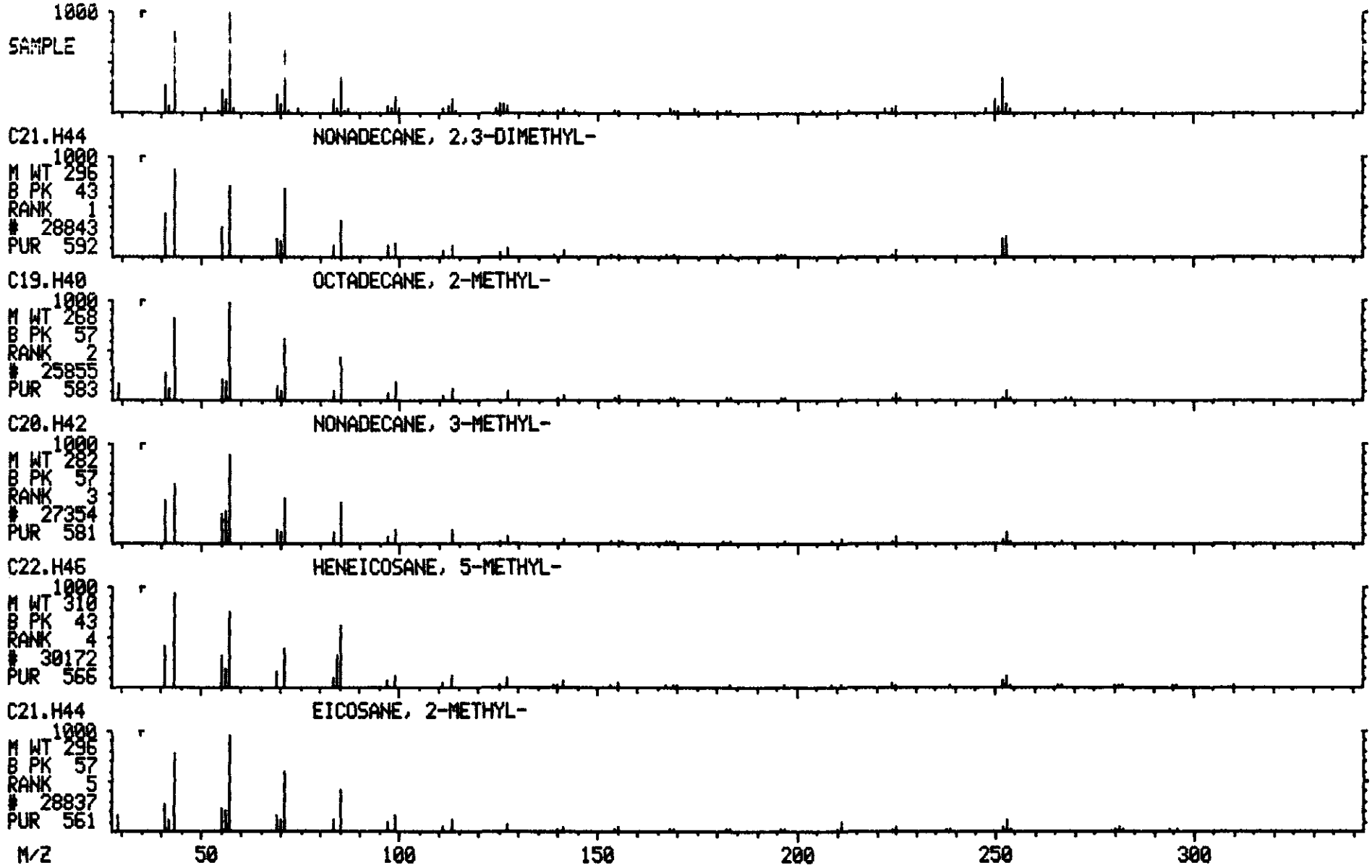
✓

LIBRARY SEARCH
05/23/90 18:32:00 + 34:34
SAMPLE: CLP,VERSCOM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2732 #2074
CALI: T2732 # 2

BASE M/Z: 57
RIC: 13487.

100585



Library Search Data: T2732 #2199 Base m/z: 43
05/23/90 18:32:00 + 36:39 Cali: T2732 # 2 RIC: 11455.
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42222 spectra in LIBRARYNB searched for maximum PURITY
108 matched at least 8 of the 16 largest peaks in the unknown

aldehyde

Rank	In.	Name
1	25849	OCTADECANAL
2	18505	TETRADECANAL (ACN)
3	22445	HEXADECANAL (ACN)
4	26955	1-EICOSYNE
5	16241	TRIDECANAL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H36.O	268	43	691	936	734
2	C14.H28.O	212	57	685	971	698
3	C16.H32.O	240	43	685	940	722
4	C20.H38	278	43	672	895	698
5	C13.H26.O	198	57	655	965	671

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	638-66-4
2	—	—	—	—	124-25-4
3	—	—	—	—	629-80-1
4	—	—	—	—	765-27-5
5	—	—	—	—	10486-19-8

✓

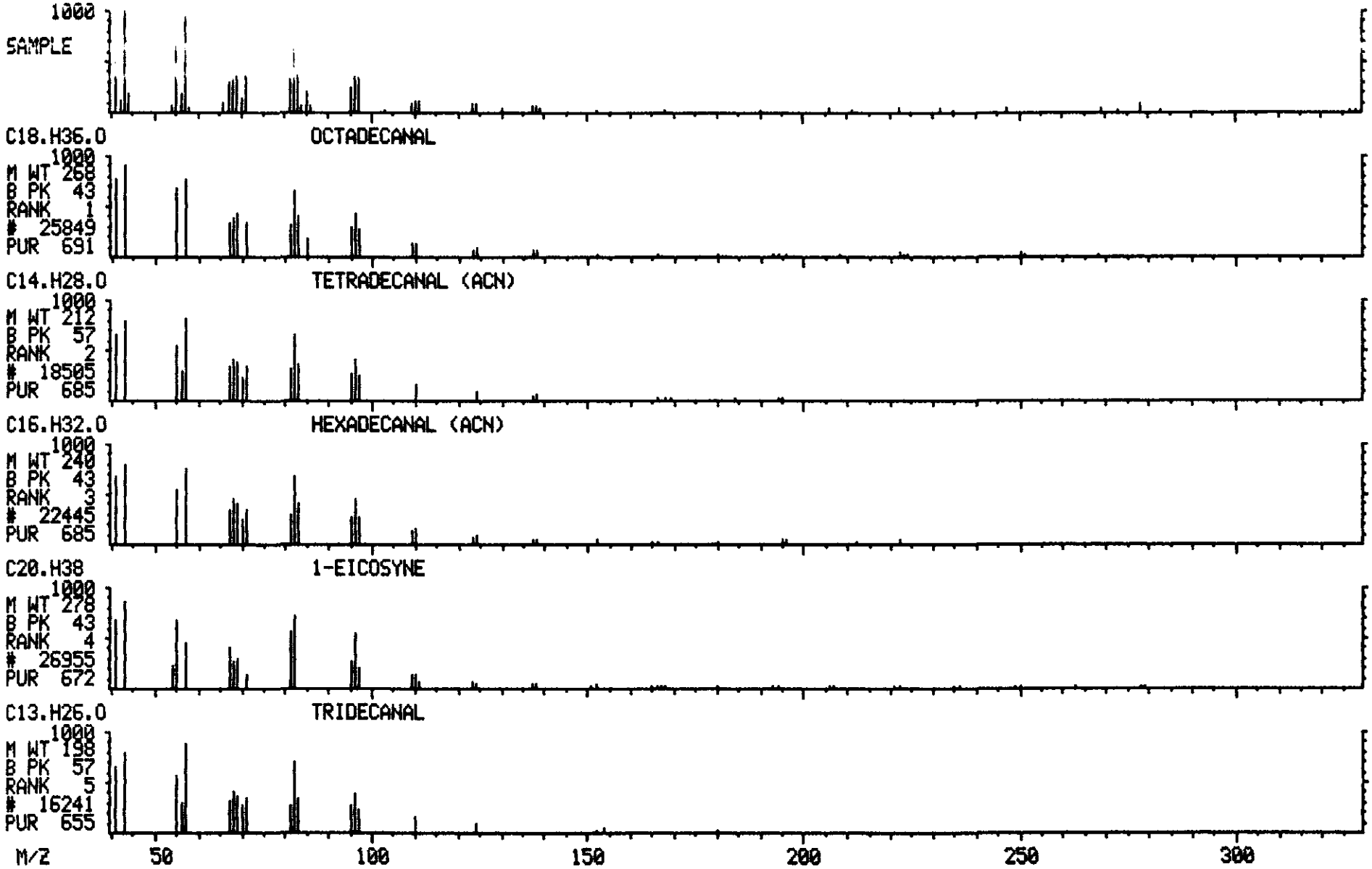
100586

LIBRARY SEARCH
05/23/90 18:32:00 + 36:39
SAMPLE: CLP,VERSCDM,2565,15,L,S,16917,B,,420.1.0,4,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2732 #2199
CALI: T2732 # 2

BASE M/Z: 43
RIC: 11455.

100587



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        >>>>INTERNAL STANDARD RIC REPORT<<<<
****************************INTERNAL STANDARD#1*****************RIC
Mass List                        Data: T2732 # 514          Base m/z:   150
05/23/90 18:32.00 +  8:34        Cali: T2732 #   2          RIC:     127360.
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     35       0.00    0.00        0. Minima      Min inten:       0.
     30                        #   0  Maxima
****************************INTERNAL STANDARD#2*****************RIC
Mass List                        Data: T2732 # 731          Base m/z:   136
05/23/90 18:32:00 + 12:11        Cali: T2732 #   2          RIC:     160000.
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38       0.00    0.00        0. Minima      Min inten:       0.
     30                        #   0  Maxima
****************************INTERNAL STANDARD#3*****************RIC
Mass List                        Data: T2732 #1061          Base m/z:   164
05/23/90 18:32:00 + 17:41        Cali: T2732 #   2          RIC:     155648.
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38       0.00    0.00        0. Minima      Min inten:       0.
     30                        #   0  Maxima
****************************INTERNAL STANDARD#4*****************RIC
Mass List                        Data: T2732 #1342          Base m/z:   188
05/23/90 18:32:00 + 22:22        Cali: T2732 #   2          RIC:     180480.
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38       0.00    0.00        0. Minima      Min inten:       0.
     30                        #   0  Maxima
****************************INTERNAL STANDARD#5*****************RIC
Mass List                        Data: T2732 #1868          Base m/z:   ~~37~~ 240
05/23/90 18:32:00 + 31:08        Cali: T2732 #   2          RIC:     ~~1676.~~ 162502
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     43       0.00    0.00        0. Minima      Min inten:       0.
     30                        #   0  Maxima
****************************INTERNAL STANDARD#6*****************RIC
Mass List                        Data: T2732 #2139          Base m/z:   264
05/23/90 18:32:00 + 35:39        Cali: T2732 #   2          RIC:     101248.
Sample: CLP,VERSCDM,2565,15,L,S,16917,B,,420. 1.0,4,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40       0.00    0.00        0. Minima      Min inten:       0.
     30                        #   0  Maxima
     ANALYST: CHECK BASE M/Z AND RIC AMOUNT TO INSURE NO CONTAMINATION
```