2A
WATER VOLATILE SURROGATE RECOVERY

158322

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	G201	107	101	102	0	0
02	G202	99	98	101	0	0
03	G203	101	100	100	0	0
04	G204	97	96	99	0	0
05	G205	95	94	97	0	0
06	VBLKTB	101	98	99	0	0
07	VBLKW	103	103	102	0	0
08	VBLKW	100	97	95	0	0
09	G201MS	94	93	96	0	0
10	G201MSD	96	94	93	0	0
11	VBLKW	103	103	102	0	0
12	VBLKW	100	97	95	0	0

	QC LIMITS
S1 (TOL) = Toluene-d8	(88-110)
S2 (BFB) = Bromofluorobenzene	(86-115)
S3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

000004

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2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	VBLKSL	106	103	106	0	0
02	VBLKSL	91	101	96	0	0
03	X101	106	95	108	0	0
04	X102	111	97	102	0	0
05	X103	81	103	94	0	0
06	X104	87	98	99	0	0
07	X106	99	90	97	0	0
08	X107	99	98	102	0	0
09	X108	98	96	98	0	0
10	X109	106	102	100	0	0
11	X110	107	100	97	0	0
12	X111	94	103	95	0	0
13	X112	88	100	100	0	0
14	X113	84	102	95	0	0
15	X114	105	97	94	0	0
16	X109MS	101	99	100	0	0
17	X109MSD	105	99	109	0	0
18	VBLKSL	103	96	97	0	0
19	VBLKSL	106	103	106	0	0
20	VBLKSL	91	101	96	0	0

	QC LIMITS
S1 (TOL) = Toluene-d8	(81-117)
S2 (BFB) = Bromofluorobenzene	(74-121)
S3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

000005

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2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Level:(low/med) MED

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	VBLKSM	88	105	95	0	0
02	X103DL	81	107	77	0	0
03	X109MS	88	107	93	0	0
04	X109MSD	84	100	89	0	0
05	VBLKSM	88	105	95	0	0

		QC LIMITS
S1 (TOL)	= Toluene-d8	(81-117)
S2 (BFB)	= Bromofluorobenzene	(74-121)
S3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix Spike - EPA Sample No.: G201

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	53.6	107	61-145
Trichloroethene	50.0	0	47.5	95	71-120
Benzene	50.0	0	46.0	92	76-127
Toluene	50.0	0	47.6	95	76-125
Chlorobenzene	50.0	0	47.9	96	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0	55.2	110	-3	14	61-145
Trichloroethene	50.0	47.8	96	-1	14	71-120
Benzene	50.0	46.8	94	-2	11	76-127
Toluene	50.0	47.4	95	0	13	76-125
Chlorobenzene	50.0	48.7	97	-1	13	75-130

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

* Values outside of QC limits

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

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix Spike - EPA Sample No.: X109 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	53.9	108	59-172
Trichloroethene	50.0	0	51.2	102	62-137
Benzene	50.0	0	52.3	105	66-142
Toluene	50.0	0	66.5	133	59-139
Chlorobenzene	50.0	0	49.3	99	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0	45.4	91	17	22	59-172
Trichloroethene	50.0	50.1	100	2	24	62-137
Benzene	50.0	51.4	103	2	21	66-142
Toluene	50.0	60.9	122	9	21	59-139
Chlorobenzene	50.0	48.4	97	2	21	60-133

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

* Values outside of QC limits

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

COMMENTS:

000008

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix Spike - EPA Sample No.: X109 Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	42.9	86	59-172
Trichloroethene	50.0	0	52.0	104	62-137
Benzene	50.0	0	49.2	98	66-142
Toluene	50.0	0	50.2	100	59-139
Chlorobenzene	50.0	0	50.6	101	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0	46.2	92	-7	22	59-172
Trichloroethene	50.0	52.3	105	-1	24	62-137
Benzene	50.0	49.5	99	-1	21	66-142
Toluene	50.0	50.6	101	-1	21	59-139
Chlorobenzene	50.0	50.4	101	0	21	60-133

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

* Values outside of QC limits

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

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID: A0402BK03 Lab Sample ID: 040291BLK

Date Analyzed: 04/02/91 Time Analyzed: 1303

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

Instrument ID: 5100

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G201	D190894	A0402BK05	1414
02	G202	D190895	A0402BK06	1450
03	G203	D190896	A0402BK07	1538
04	VBLKTB	D190899	A0402BK04	1339

COMMENTS:

000010

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4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID: A0403BK03 Lab Sample ID: 040391BLK

Date Analyzed: 04/03/91 Time Analyzed: 1058

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

Instrument ID: 5100

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G204	D190897	A0403BK04	1134
02	G205	D190898	A0403BK05	1251
03	G201MS	D190894MS	A0403BK06	1327
04	G201MSD	040391MSD	A0403BK07	1403

COMMENTS:

000011

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4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID: B0329LC03 Lab Sample ID: 032991BLK

Date Analyzed: 03/29/91 Time Analyzed: 1055

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

Instrument ID: 5100

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	X102	D190901	B0329LC09	1443
02	X108	D190906	B0329LC11	1552
03	X114	D190912	B0329LC08	1359

COMMENTS:

000012

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4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID: B0401LC03 Lab Sample ID: 040191BLK

Date Analyzed: 04/01/91 Time Analyzed: 1056

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

Instrument ID: 5100

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	X101	D190900	B0401LC04	1136
02	X106	D190904	B0401LC07	1322
03	X109	D190907	B0401LC08	1401
04	X109MS	D190907MS	B0401LC10	1518
05	X109MSD	D190907MSD	B0401LC11	1555

COMMENTS:

000013

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4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID: B0402LC03 Lab Sample ID: 040291BLK

Date Analyzed: 04/02/91 Time Analyzed: 1041

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

Instrument ID: 5100

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	X103	D190902	B0402LC09	1511
02	X104	D190903	B0402LC11	1630
03	X107	D190905	B0402LC10	1550
04	X110	D190908	B0402LC05	1239
05	X111	D190909	B0402LC06	1323
06	X112	D190910	B0402LC08	1437
07	X113	D190911	B0402LC07	1358

COMMENTS:

000014

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4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID: B0403LC03 Lab Sample ID: 040391BLK

Date Analyzed: 04/03/91 Time Analyzed: 1042

Matrix: (soil/water) SOIL Level:(low/med) MED

Instrument ID: 5100

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	X103DL	D190902DL	B0403LC04	1119
02	X109MS	D190907MS	B0403LC05	1157
03	X109MSD	D190907MSD	B0403LC06	1237

COMMENTS:

000015

FORM IV VOA 1/87 Rev.

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

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID: A0402BK01 BFB Injection Date: 04/02/91

Instrument ID: 5100A BFB Injection Time: 1115

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.2
75	30.0 - 60.0% of mass 95	45.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.1 (0.1)1
174	Greater than 50.0% of mass 95	75.4
175	5.0 - 9.0% of mass 174	5.7 (7.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.2 (98.4)1
177	5.0 - 9.0% of mass 176	4.7 (6.4)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	040291STD	A0402BK02	04/02/91	1152
02	VBLKW	040291BLK	A0402BK03	04/02/91	1303
03	VBLKW	040291BLK	A0402BK03	04/02/91	1303
04	VBLKTB	D190899	A0402BK04	04/02/91	1339
05	G201	D190894	A0402BK05	04/02/91	1414
06	G202	D190895	A0402BK06	04/02/91	1450
07	G203	D190896	A0402BK07	04/02/91	1538

000016

FORM V VOA 1/87 Rev.

5A

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

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID: A0403BK01 BFB Injection Date: 04/03/91

Instrument ID: 5100A BFB Injection Time: 0852

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.9
75	30.0 - 60.0% of mass 95	44.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.4 (0.6)1
174	Greater than 50.0% of mass 95	72.6
175	5.0 - 9.0% of mass 174	5.0 (6.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	72.6 (100.0)1
177	5.0 - 9.0% of mass 176	4.4 (6.1)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	040391STD	A0403BK02	04/03/91	1004
02	VBLKW	040391BLK	A0403BK03	04/03/91	1058
03	VBLKW	040391BLK	A0403BK03	04/03/91	1058
04	G204	D190897	A0403BK04	04/03/91	1134
05	G205	D190898	A0403BK05	04/03/91	1251
06	G201MS	D190894MS	A0403BK06	04/03/91	1327
07	G201MSD	040391MSD	A0403BK07	04/03/91	1403

000017

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

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID: B0329LC01 BFB Injection Date: 03/29/91

Instrument ID: 5100B BFB Injection Time: 0938

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	35.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	55.3
175	5.0 - 9.0% of mass 174	3.8 (6.9)1
176	Greater than 95.0%, but less than 101.0% of mass 174	53.1 (96.1)1
177	5.0 - 9.0% of mass 176	3.6 (6.7)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	032991STD	B0329LC02	03/29/91	1019
02	VBLKSL	032991BLK	B0329LC03	03/29/91	1055
03	VBLKSL	032991BLK	B0329LC03	03/29/91	1055
04	X114	D190912	B0329LC08	03/29/91	1359
05	X102	D190901	B0329LC09	03/29/91	1443
06	X108	D190906	B0329LC11	03/29/91	1552

000018

FORM V VOA 1/87 Rev.

5A

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

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID: B0401LC01 BFB Injection Date: 04/01/91

Instrument ID: 5100B BFB Injection Time: 0932

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.8
75	30.0 - 60.0% of mass 95	38.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	62.8
175	5.0 - 9.0% of mass 174	4.2 (6.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	61.9 (98.5)1
177	5.0 - 9.0% of mass 176	4.1 (6.7)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	040191STD	B0401LC02	04/01/91	1018
02	VBLKSL	040191BLK	B0401LC03	04/01/91	1056
03	VBLKSL	040191BLK	B0401LC03	04/01/91	1056
04	X101	D190900	B0401LC04	04/01/91	1136
05	X106	D190904	B0401LC07	04/01/91	1322
06	X109	D190907	B0401LC08	04/01/91	1401
07	X109MS	D190907MS	B0401LC10	04/01/91	1518
08	X109MSD	D190907MSD	B0401LC11	04/01/91	1555

000019

FORM V VOA 1/87 Rev.

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

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID: B0402LC01 BFB Injection Date: 04/02/91

Instrument ID: 5100B BFB Injection Time: 0924

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.1
75	30.0 - 60.0% of mass 95	36.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	64.1
175	5.0 - 9.0% of mass 174	4.7 (7.4)1
176	Greater than 95.0%, but less than 101.0% of mass 174	61.6 (96.1)1
177	5.0 - 9.0% of mass 176	4.0 (6.5)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	040291STD	B0402LC02	04/02/91	1003
02	VBLKSL	040291BLK	B0402LC03	04/02/91	1041
03	VBLKSL	040291BLK	B0402LC03	04/02/91	1041
04	X110	D190908	B0402LC05	04/02/91	1239
05	X111	D190909	B0402LC06	04/02/91	1323
06	X113	D190911	B0402LC07	04/02/91	1358
07	X112	D190910	B0402LC08	04/02/91	1437
08	X103	D190902	B0402LC09	04/02/91	1511
09	X107	D190905	B0402LC10	04/02/91	1550
10	X104	D190903	B0402LC11	04/02/91	1630

000020

FORM V VOA 1/87 Rev.

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

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID: B0403LC01 BFB Injection Date: 04/03/91

Instrument ID: 5100B BFB Injection Time: 0912

Matrix:(soil/water) SOIL Level:(low/med) MED Column:(pack/cap) WIDE

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.9
75	30.0 - 60.0% of mass 95	36.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	63.9
175	5.0 - 9.0% of mass 174	4.8 (7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	63.9 (100.0)1
177	5.0 - 9.0% of mass 176	4.2 (6.6)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	040391STD	B0403LC02	04/03/91	950
02	VBLKSM	040391BLK	B0403LC03	04/03/91	1042
03	VBLKSM	040391BLK	B0403LC03	04/03/91	1042
04	X103DL	D190902DL	B0403LC04	04/03/91	1119
05	X109MS	D190907MS	B0403LC05	04/03/91	1157
06	X109MSD	D190907MSD	B0403LC06	04/03/91	1237

000021

FORM V VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID (Standard): A0402BK02 Date Analyzed: 04/02/91

Instrument ID: 5100 Time Analyzed: 1152

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

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	7980	3.80	36000	5.70	37800	16.55
	UPPER LIMIT	15960		72000		75600	
	LOWER LIMIT	3990		18000		18900	
	EPA SAMPLE NO.						
01	G201	7350	3.83	34100	5.70	36900	16.60
02	G202	7630	3.82	34600	5.70	38900	16.62
03	G203	7750	3.83	34500	5.68	38300	16.60
04	VBLKTB	7220	3.80	34100	5.70	38300	16.57
05	VBLKW	7680	3.77	34800	5.63	37600	16.55
06	VBLKW	7680	3.77	34800	5.63	37600	16.55

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

000022

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID (Standard): A0403BK02 Date Analyzed: 04/03/91

Instrument ID: 5100 Time Analyzed: 1004

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

	IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
12 HOUR STD	7380	3.77	34400	5.63	37000	16.57
UPPER LIMIT	14760		68800		74000	
LOWER LIMIT	3690		17200		18500	
EPA SAMPLE NO.						
01 G204	7610	3.80	34900	5.67	37600	16.59
02 G205	7300	3.80	34700	5.65	38300	16.57
03 VBLKW	7650	3.80	34400	5.63	37200	16.59
04 G201MS	7890	3.82	35300	5.68	39300	16.64
05 G201MSD	7460	3.83	33500	5.72	36800	16.64
06 VBLKW	7650	3.80	34400	5.63	37200	16.59

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

000023

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID (Standard): B0329LC02 Date Analyzed: 03/29/91

Instrument ID: 5100 Time Analyzed: 1019

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	10700	4.25	53200	6.45	56000	17.50
	UPPER LIMIT	21400		106400		112000	
	LOWER LIMIT	5350		26600		28000	
	EPA SAMPLE NO.						
01	VBLKSL	7720	4.27	38000	6.47	43300	17.45
02	X102	8130	4.17	39800	6.30	42600	17.44
03	X108	9420	4.20	45900	6.37	52700	17.44
04	X114	10600	4.10	51600	6.17	56400	17.34
05	VBLKSL	7720	4.27	38000	6.47	43300	17.45

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

000024

FORM VIII VOA 1/87 Rev.

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID (Standard): B0401LC02 Date Analyzed: 04/01/91

Instrument ID: 5100 Time Analyzed: 1018

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	11100	4.33	53400	6.60	57800	17.50
	UPPER LIMIT	22200		106800		115600	
	LOWER LIMIT	5550		26700		28900	
	EPA SAMPLE NO.						
01	VBLKSL	10600	4.20	50200	6.35	55200	17.44
02	X101	8470	4.23	39200	6.45	41300	17.49
03	X106	10200	4.17	47100	6.27	51000	17.37
04	X109	10200	4.18	48300	6.33	52200	17.44
05	X109MS	9310	4.13	46900	6.22	53400	17.39
06	X109MSD	10300	4.12	47700	6.20	53400	17.37
07	VBLKSL	10600	4.20	50200	6.35	55200	17.44

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

000025

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID (Standard): B0402LC02 Date Analyzed: 04/02/91

Instrument ID: 5100 Time Analyzed: 1003

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

	IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
12 HOUR STD	10800	4.30	51900	6.57	58300	17.54
UPPER LIMIT	21600		103800		116600	
LOWER LIMIT	5400		25950		29150	
EPA SAMPLE NO.						
01 VBLKSL	10900	4.30	52900	6.57	59200	17.49
02 X103	10500	4.17	50200	6.27	56000	17.39
03 X104	8430	4.25	42200	6.43	48800	17.49
04 X107	9570	4.17	47400	6.30	51300	17.42
05 X110	11200	4.10	49400	6.20	55100	17.34
06 X111	10200	4.12	48500	6.23	54900	17.42
07 X112	10200	4.15	49800	6.23	56900	17.40
08 X113	10100	4.20	49100	6.37	55400	17.45
09 VBLKSL	10900	4.30	52900	6.57	59200	17.49

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

000026

FORM VIII VOA 1/87 Rev.

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID (Standard): B0403LC02 Date Analyzed: 04/03/91

Instrument ID: 5100 Time Analyzed: 950

Matrix:(soil/water) SOIL Level:(low/med) MED Column:(pack/cap) WIDE

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	10800	4.22	55300	6.37	59200	17.45
	UPPER LIMIT	21600		110600		118400	
	LOWER LIMIT	5400		27650		29600	
	EPA SAMPLE NO.						
01	VBLKSM	10900	4.30	53600	6.62	58900	17.50
02	X103DL	10400	4.23	51400	6.50	55800	17.47
03	X109MS	10400	4.12	48200	6.25	55100	17.40
04	X109MSD	10200	4.23	49700	6.45	56300	17.47
05	VBLKSM	10900	4.30	53600	6.62	58900	17.50

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

000027

FORM VIII VOA 1/87 Rev.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190894

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0402BK05

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G201

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190894

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0402BK05

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/02/91

Column (pack/cap) WIDE Dilution Factor: 1.0

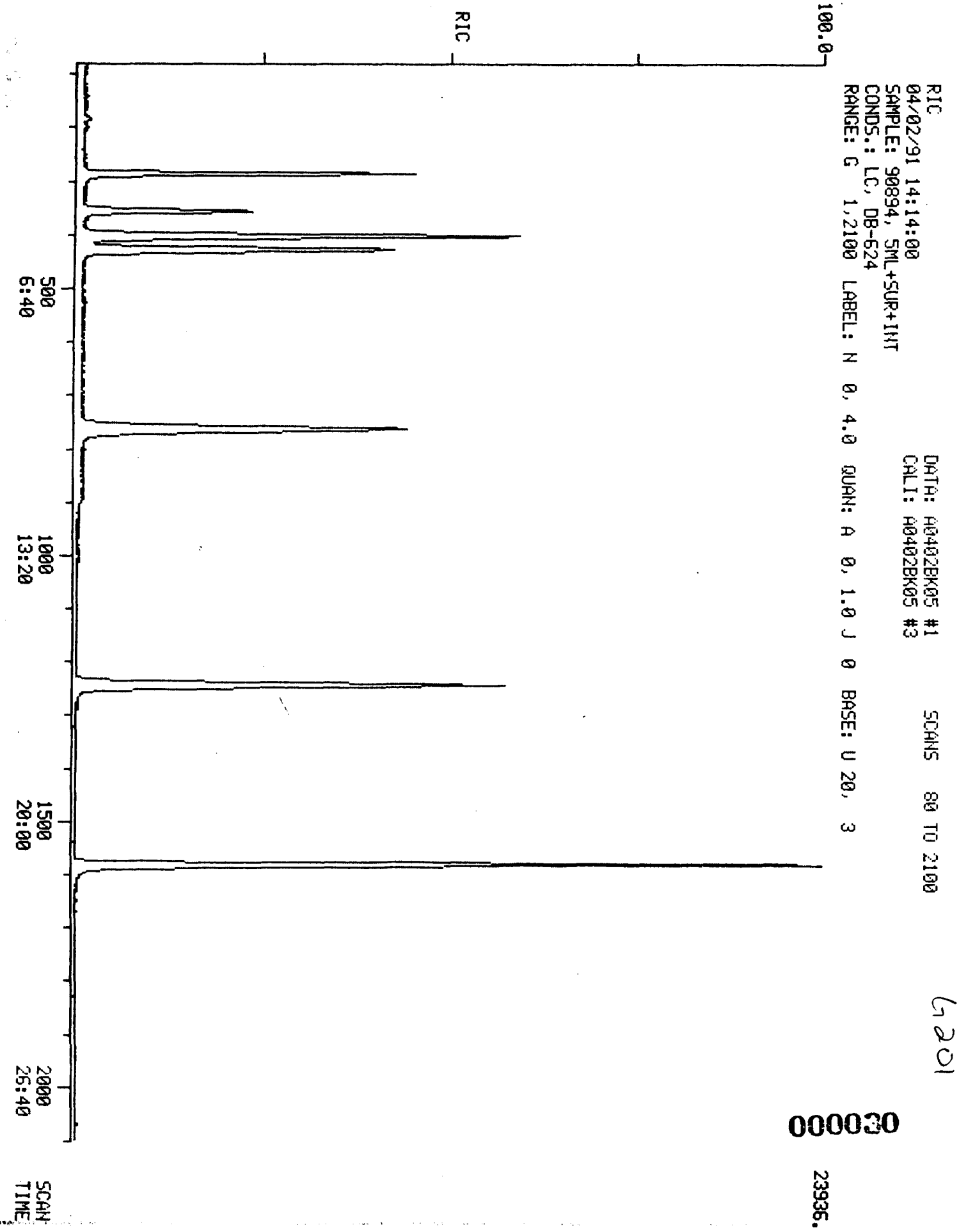
Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9 2 2 2 6 0 0 0 7 0 6

TCA FINISHED, 7 FOUND
FINISHED AT: 4/02/91 16:53:17



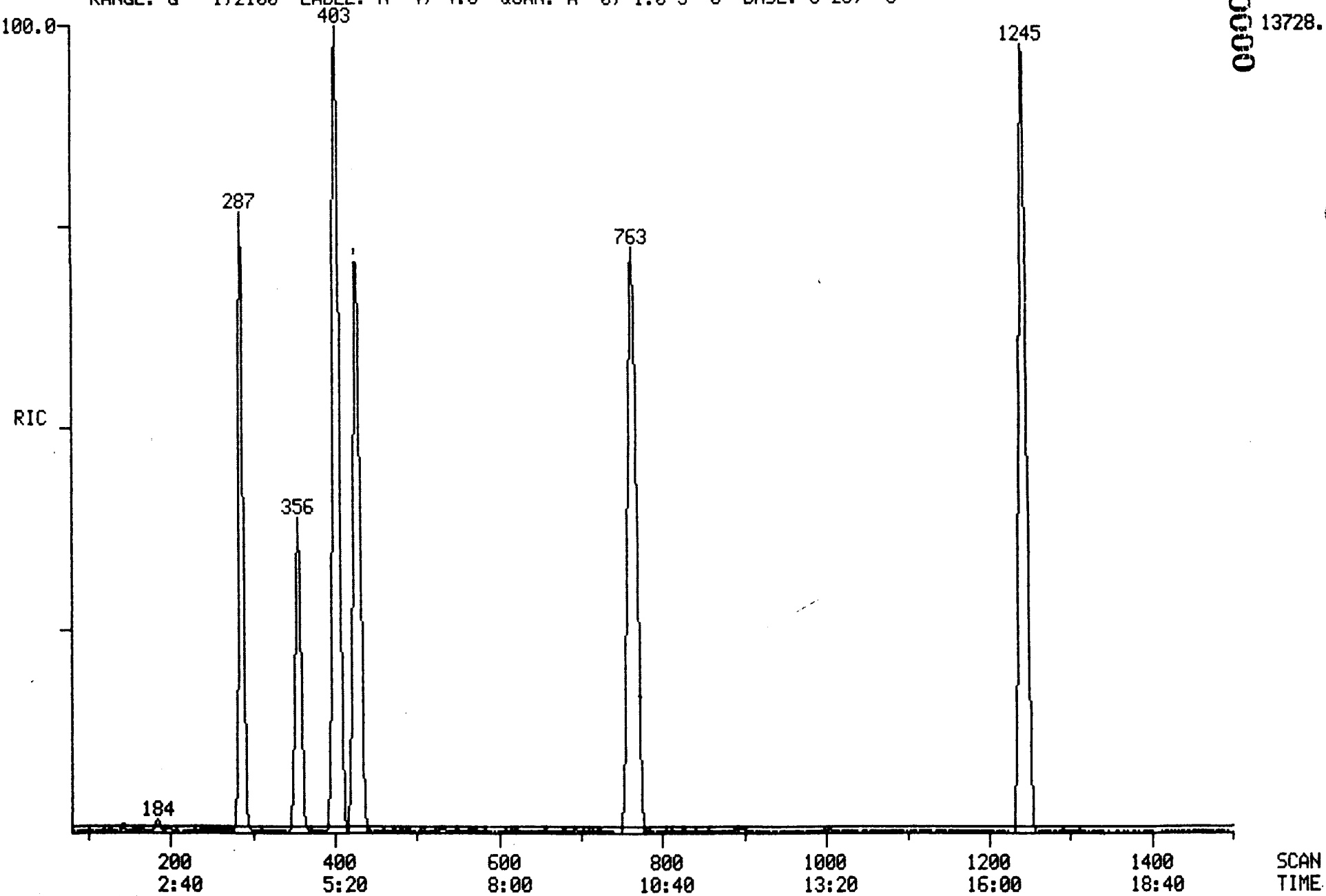
G201

000030

23936.

RIC
04/02/91 14:14:00
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0402BK05 #1 SCANS 80 TO 1500
CALI: A0402BK05 #3

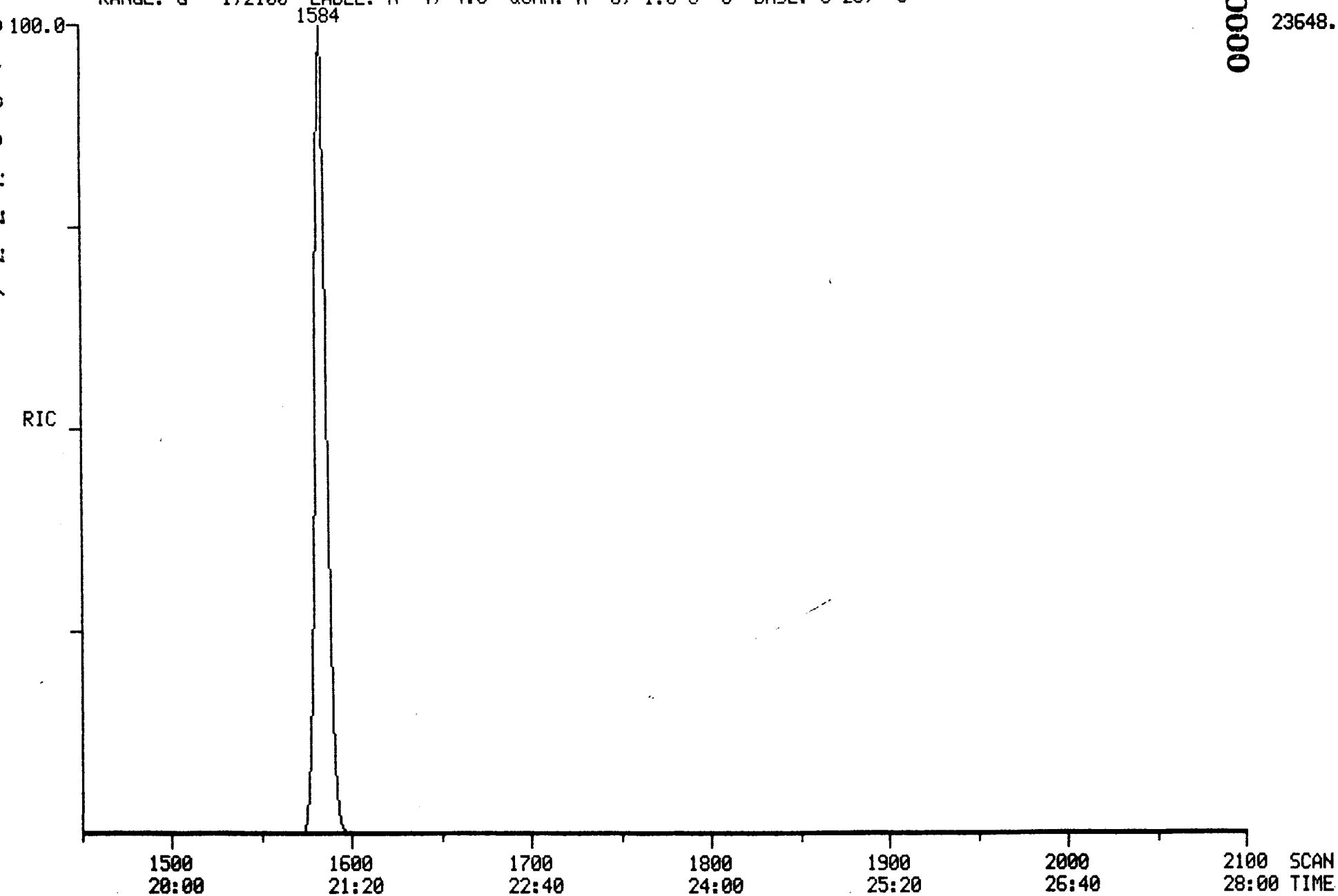


9222600007 07

000031

RIC
04/02/91 14:14:00
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0402BK05 #1 SCANS 1450 TO 2100
CALI: A0402BK05 #3



23648.

000032

9222600708

4/2/91 14:14:56 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 14:14:00 + 0:02
Sample: 90894, 5ML+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:A0402BK05
Free sectors: 4535
Instrument: 5100
Analyst: BK

Acquiring
Scan: 2 of 2100
Weight: 0.000
Acct. No:

*** GC descriptor: LC ***

GC temperature: 32 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	32- 32	-	5.0	5.0
2	32- 52	2.0	10.0	15.0
3	52-130	5.0	15.5	30.5
4	130-130	-	0.5	31.0

Valve times (minutes)

	Open	Close
Sweep/Split	31.0	0.0
Divert	31.0	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 450 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10 Samp int (ms): 0.175 Peak width: 1000.
Frag S/P: 10 Actual: 10 Samp int (ms): 0.175 Inten/ion: 2

Min peak width: 3 Min frag width %: 80 Min area: 50
ADC threshold: 2 Baseline: 0

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	130.00	128.00
Resolution (low)	130.00	128.00
Ion energy	6.67	-4.00
Ion programming	4.08	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	2.00	not used

Electron multiplier voltage: -1659.
Electrometer Range: 10 ^-7

000033

4/2/91 14:42:57
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	3.9	1680.0	0.2	16877.	8.	10.

Quantitation Report File: A0402BK05

Data: A0402BK05.TI
04/02/91 14:14:00
Sample: 90894, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	287	3:50	1	1.000	A BB	7352.	50.000 UG/L	10.70
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	167	2:14	1	0.582	A BB	65.	~~0.295 UG/L~~	0.06
7	43	144	1:55	1	0.502	A BB	495.	~~6.634 UG/L~~	1.42
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	114	427	5:42	16	1.000	A BB	34101.	50.000 UG/L	10.70
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	43	220	2:56	16	0.515	A BV	143.	~~0.370 UG/L~~	0.08
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	65	356	4:45	16	0.834	A BB	13109.	101.627 %	21.75
28	117	1245	16:36	28	1.000	A BB	36928.	50.000 UG/L	10.70
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	43	1068	14:14	28	0.858	A*BB	71.	~~0.304 UG/L~~	0.07
33	43	778	10:22	28	0.625	A*VB	164.	~~0.554 UG/L~~	0.12
34	NOT FOUND								
35	NOT FOUND								
36	91	783	10:26	28	0.629	A BB	26.	~~0.031 UG/L~~	0.01
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	95	1584	21:07	28	1.272	A BB	39017.	101.049 %	21.63
44	98	763	10:10	28	0.613	A BB	41262.	106.616 %	22.82

Quantitation Report File: A0402BK05A

Data: A0402BK05.TI
04/02/91 14:14:00
Sample: 90894, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-
2	BENZENE, 1,4-DIFLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	403	5:22	1	1.000	A BB	124459.	66.200	56.73
2	RIC	427	5:42	1	1.060	A BB	94936.	~~50.477~~	43.27

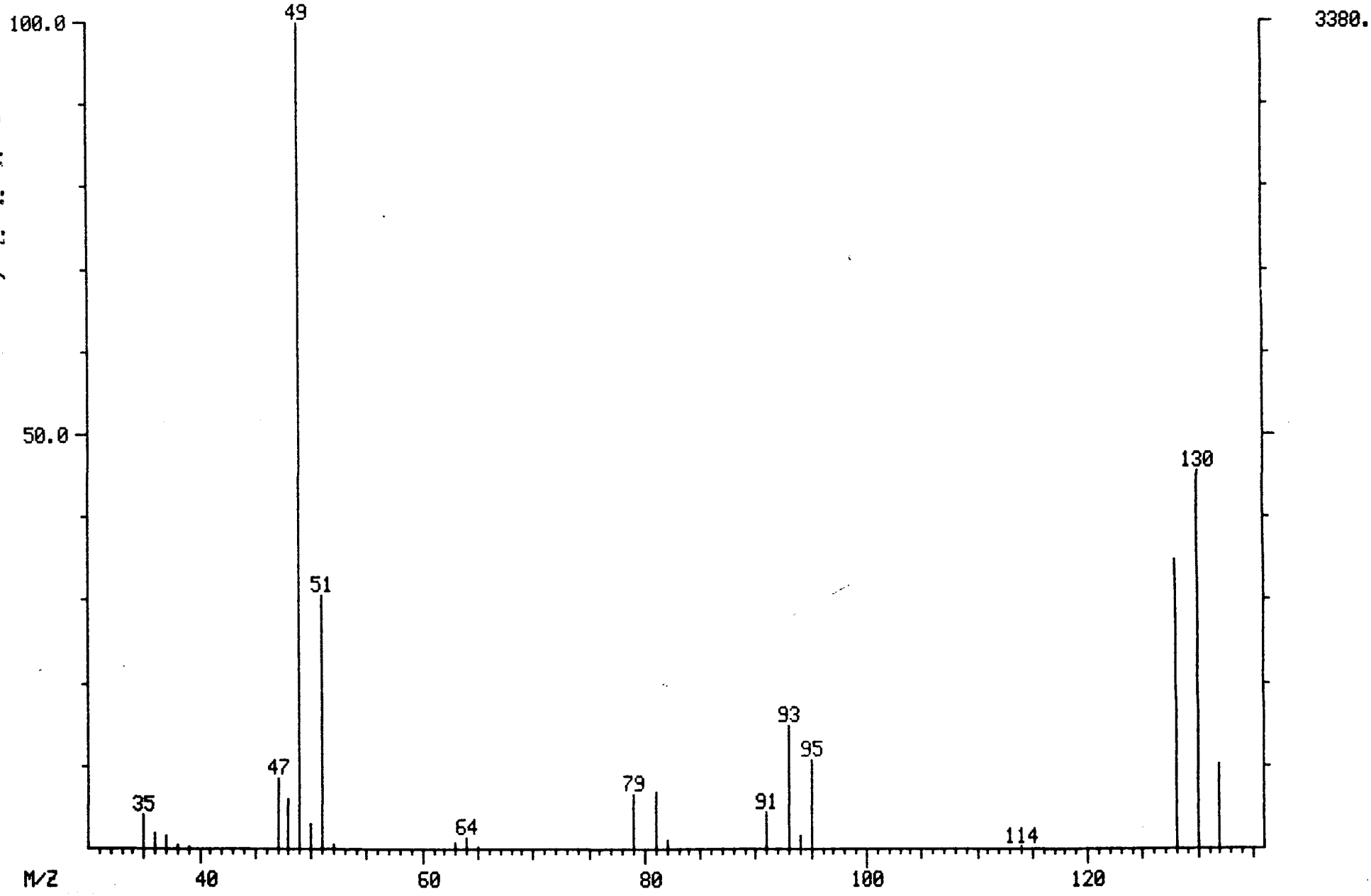
TARGET COMPOUND SPECTA

MASS SPECTRUM
04/02/91 14:14:00 + 3:50
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK05 #287
CALI: A0402BK05 #3

BASE M/Z: 49
RIC: 10064.

000039

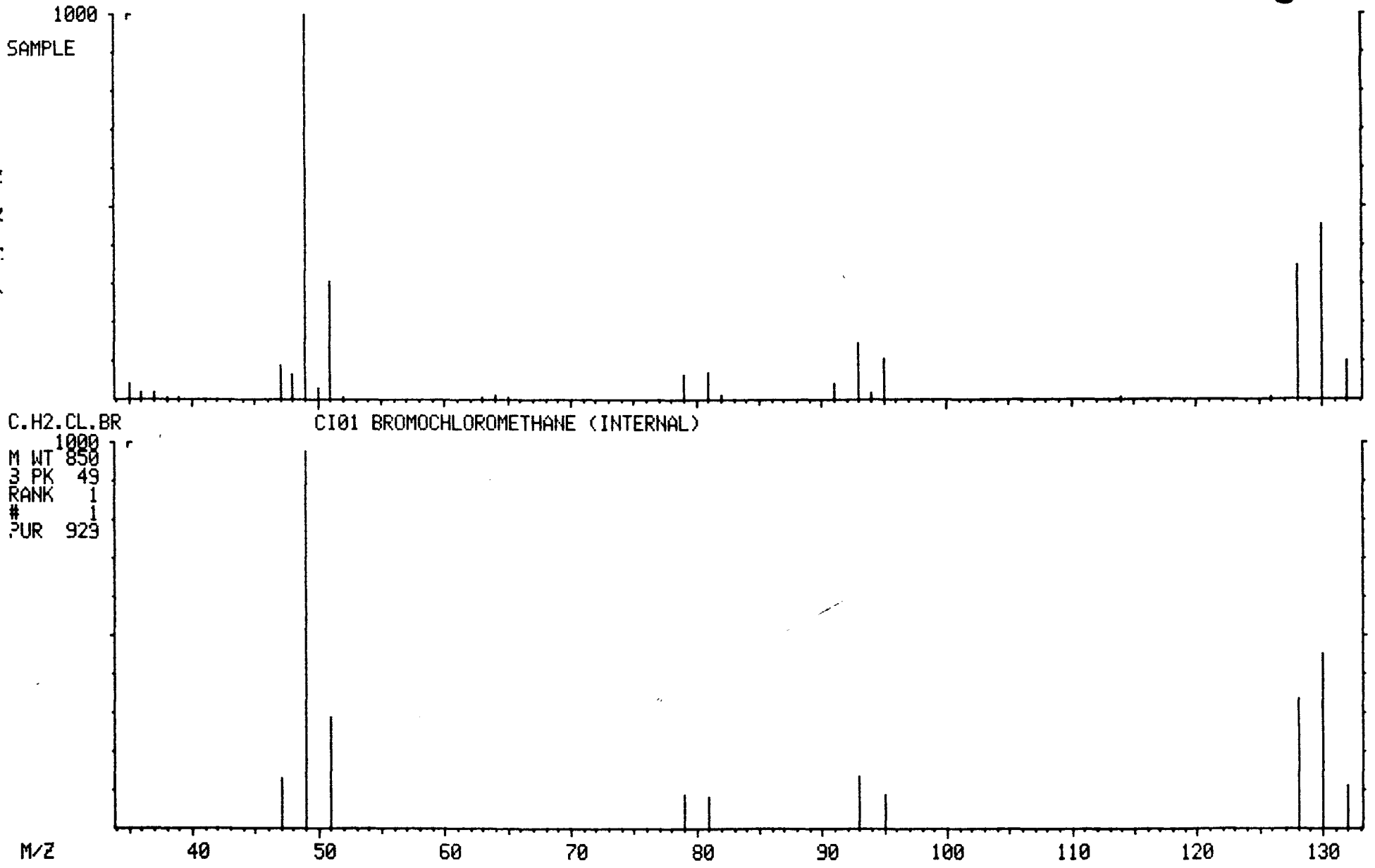


LIBRARY SEARCH
04/02/91 14:14:00 + 3:50
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK05 # 287
CALI: A0402BK05 # 3

BASE M/Z: 49
RIC: 10063.

070000

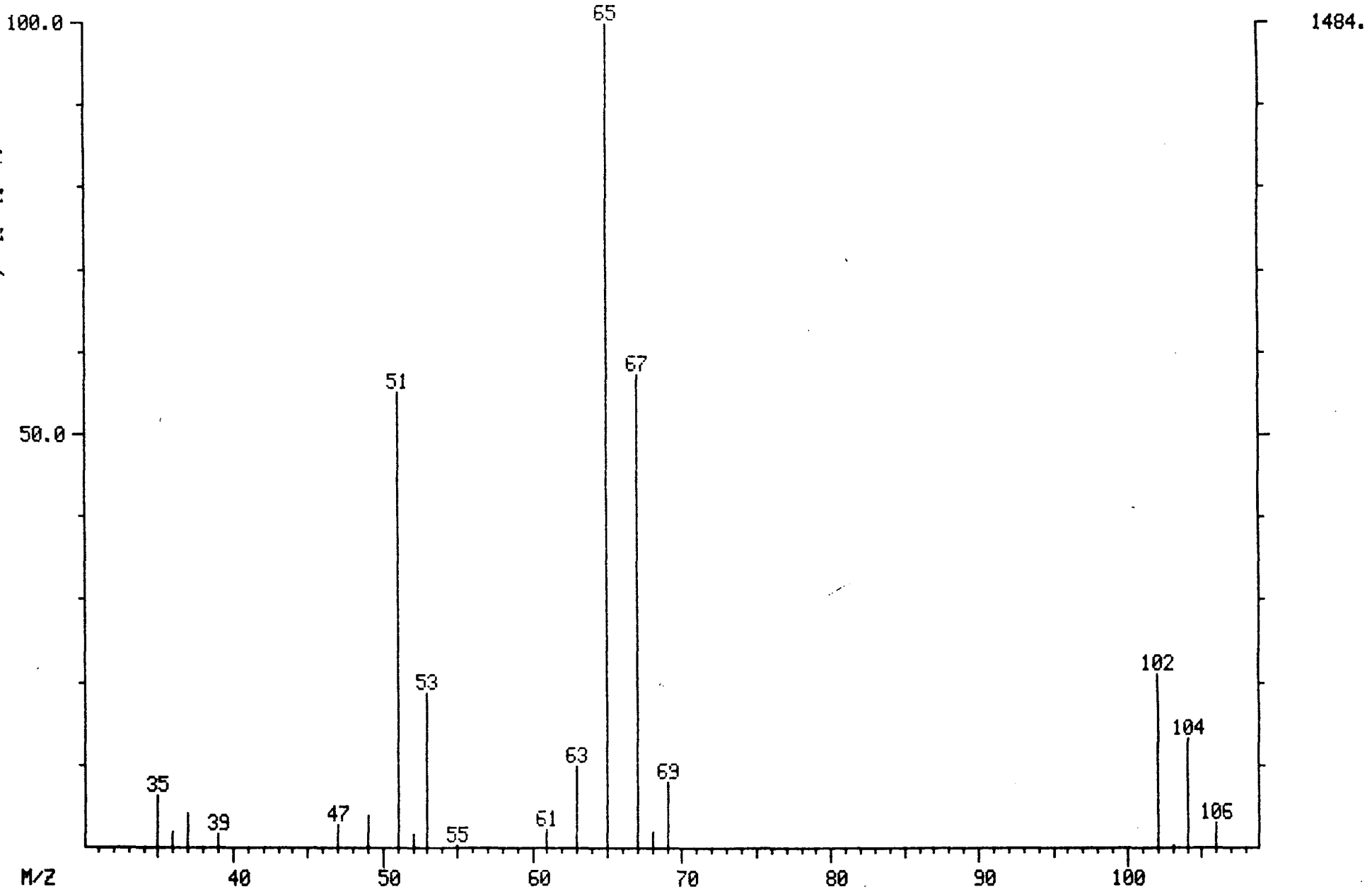


MASS SPECTRUM
04/02/91 14:14:00 + 4:45
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK05 #356
CALI: A0402BK05 #3

BASE M/Z: 65
RIC: 4680.

000041

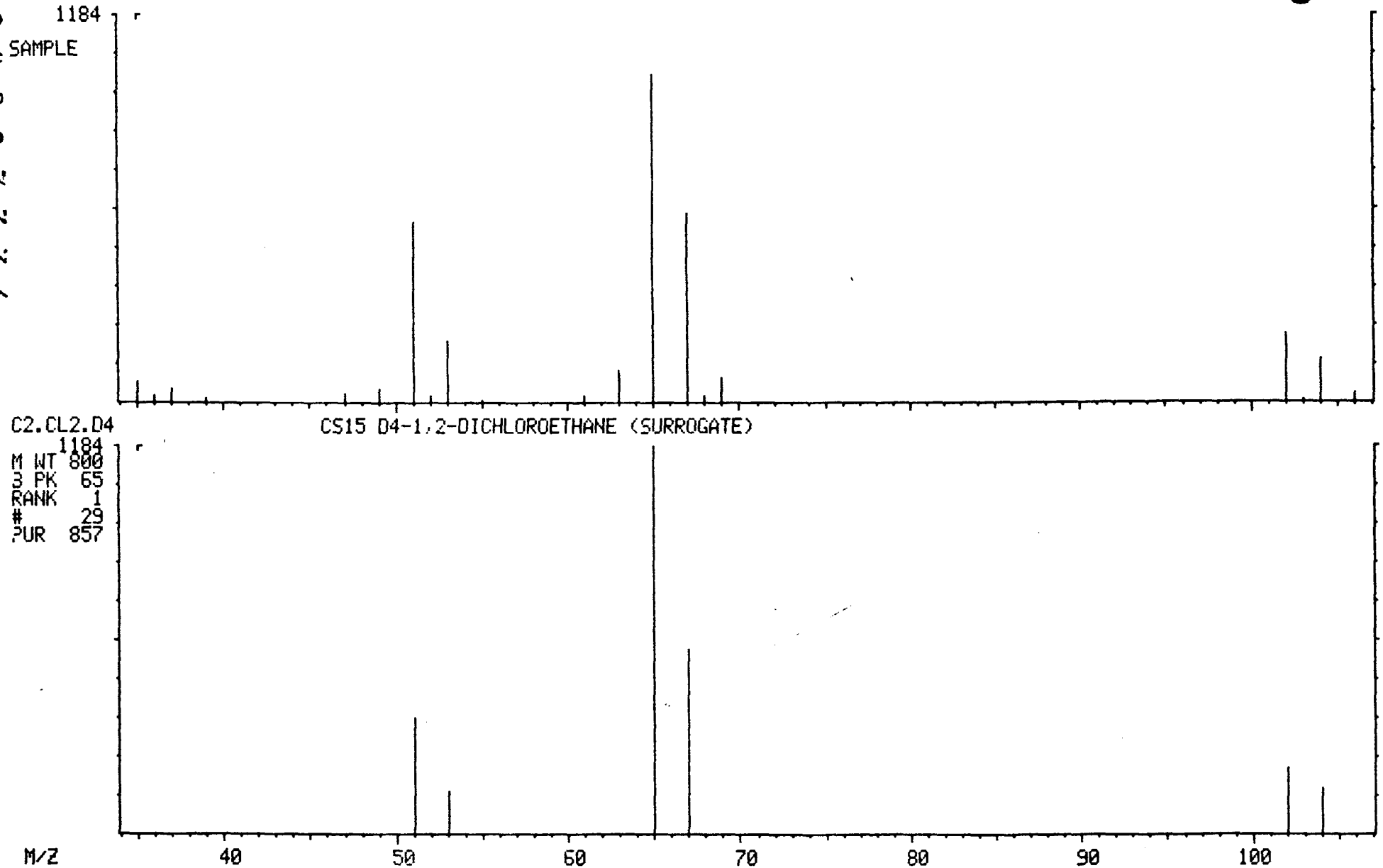


LIBRARY SEARCH
04/02/91 14:14:00 + 4:45
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK05 # 356
CALI: A0402BK05 # 3

BASE M/Z: 65
RIC: 4679.

000042

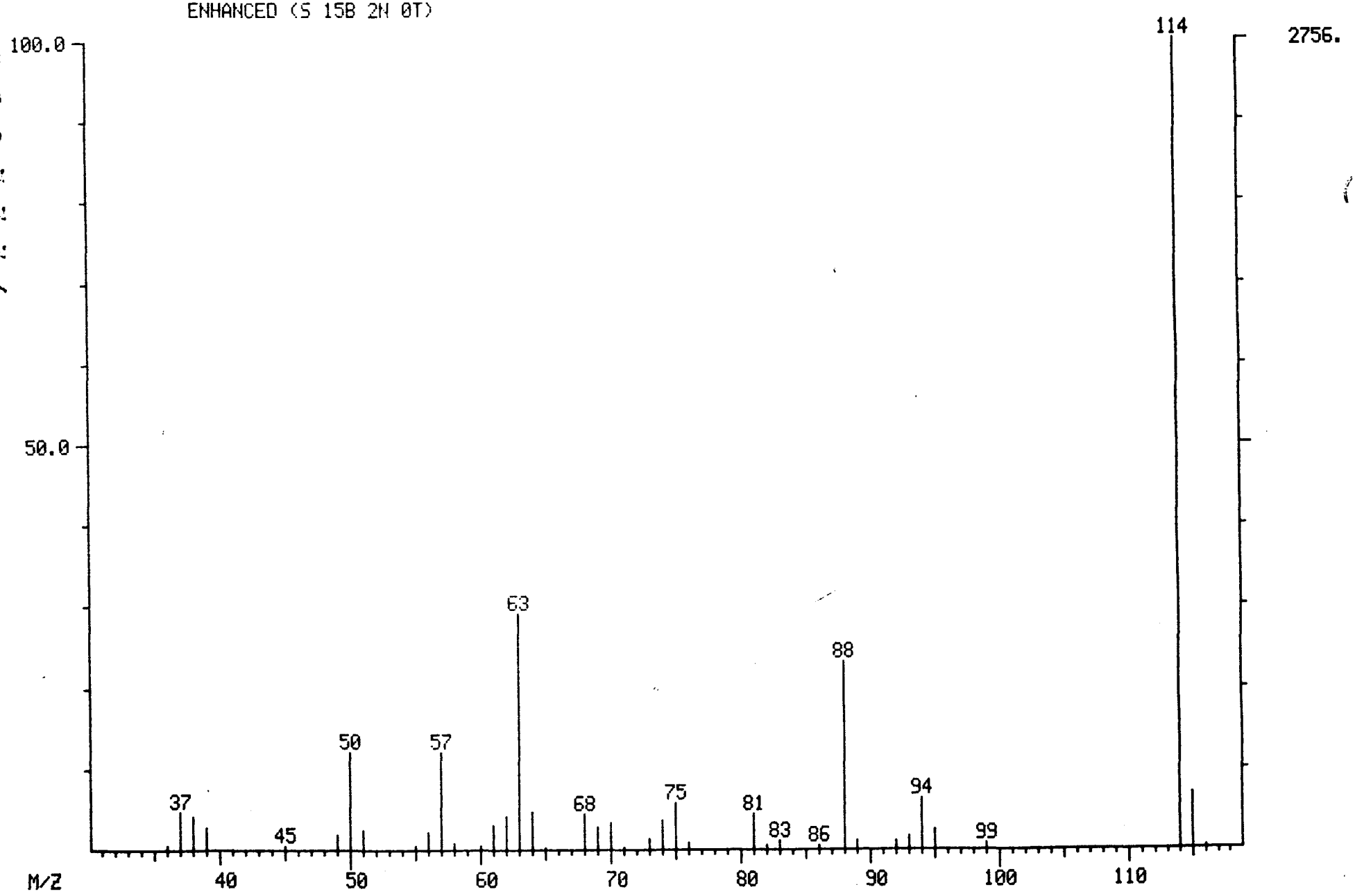


MASS SPECTRUM
04/02/91 14:14:00 + 5:42
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK05 #427
CALI: A0402BK05 #3

BASE M/Z: 114
RIC: 7216.

000043



9222600071 9

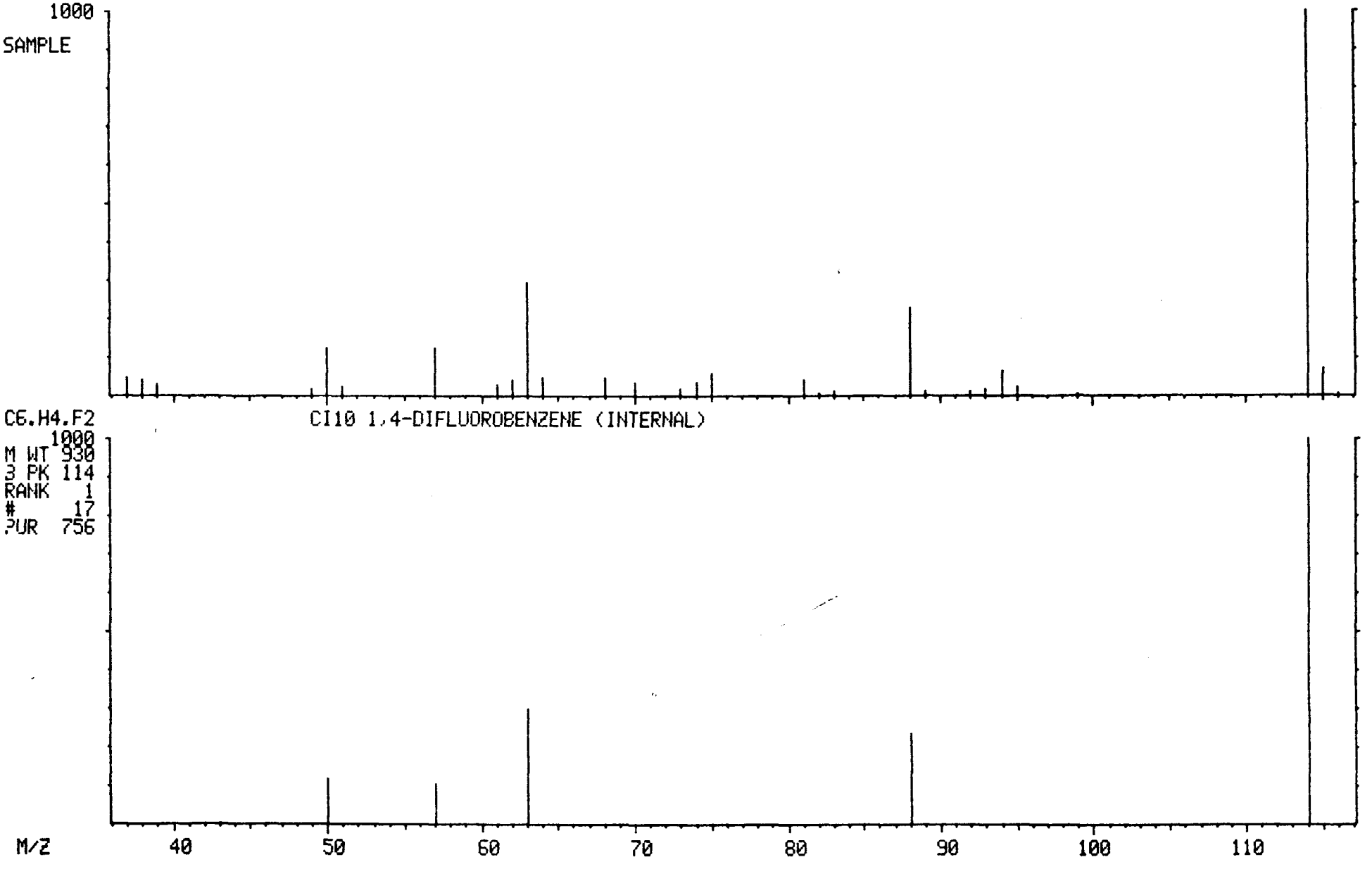
LIBRARY SEARCH
04/02/91 14:14:00 + 5:42
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (5 15B 2N 0T)

DATA: A0402BK05 # 427
CALI: A0402BK05 # 3

BASE M/Z: 114
RIC: 6919.

000044

9222600072 0

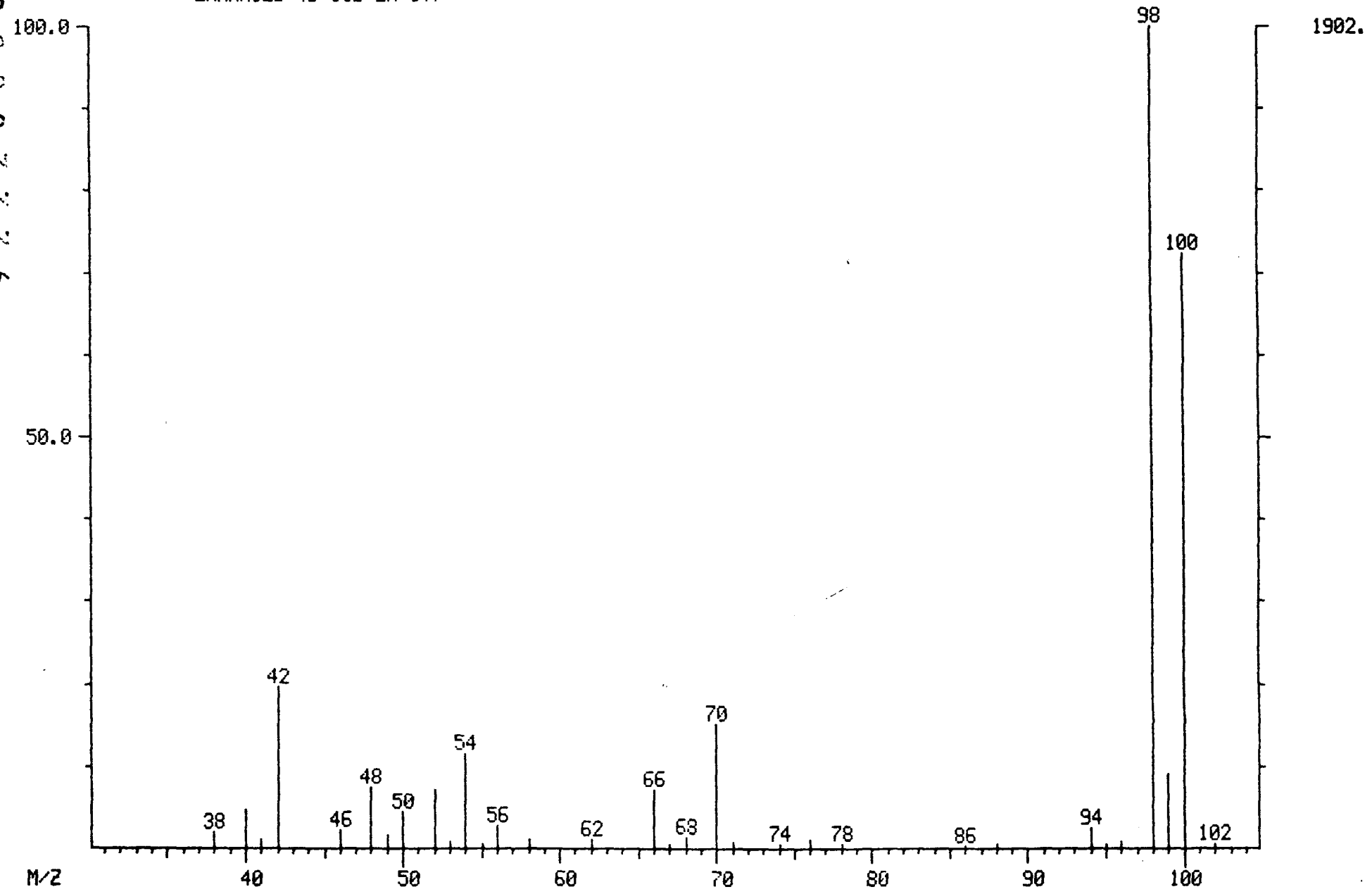


MASS SPECTRUM
04/02/91 14:14:00 + 10:10
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK05 #763
CALI: A0402BK05 #3

BASE M/Z: 98
RIC: 5400.

000045



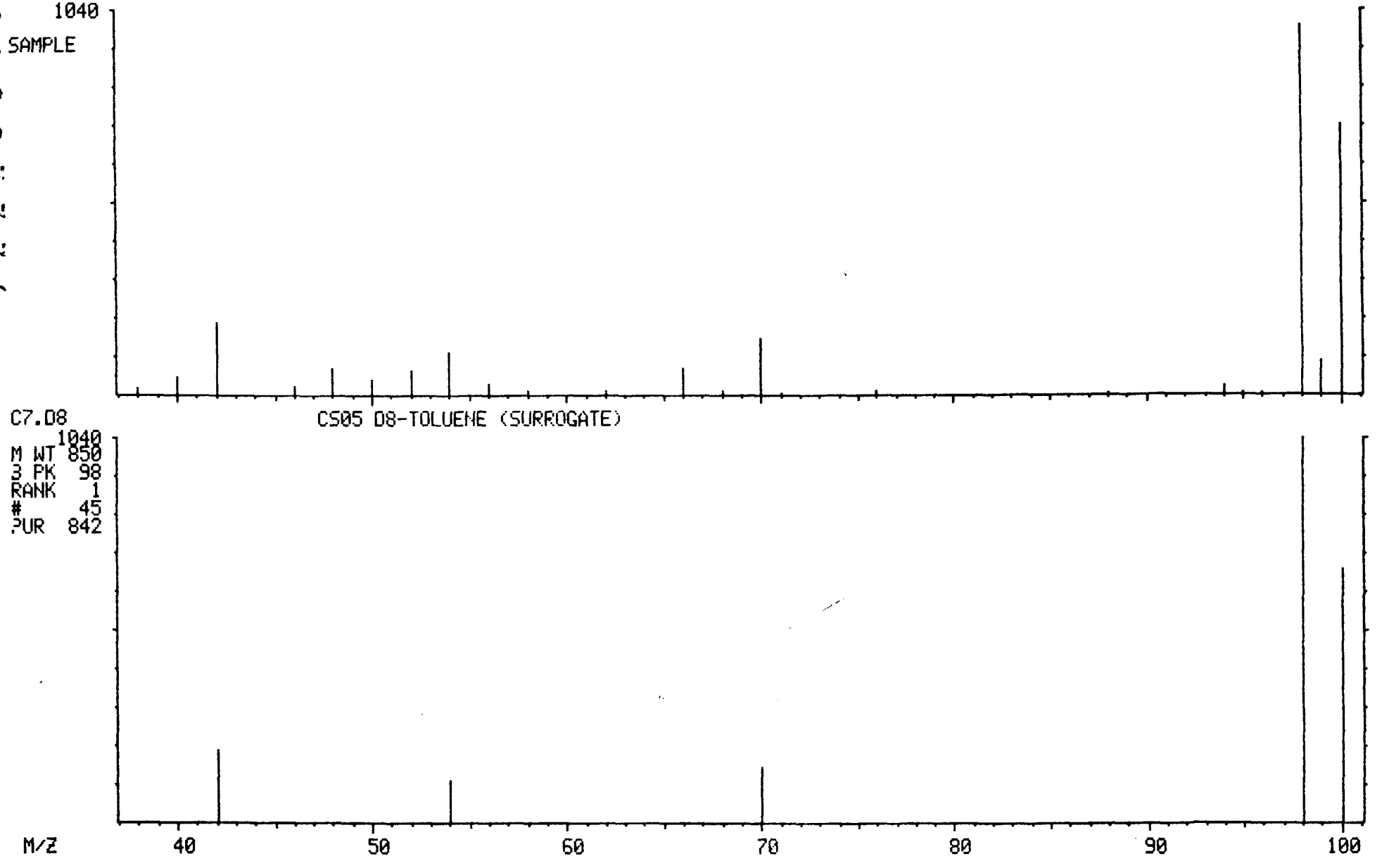
9222600072 2

LIBRARY SEARCH
04/02/91 14:14:00 + 10:10
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK05 # 763
CALI: A0402BK05 # 3

BASE M/Z: 98
RIC: 5271.

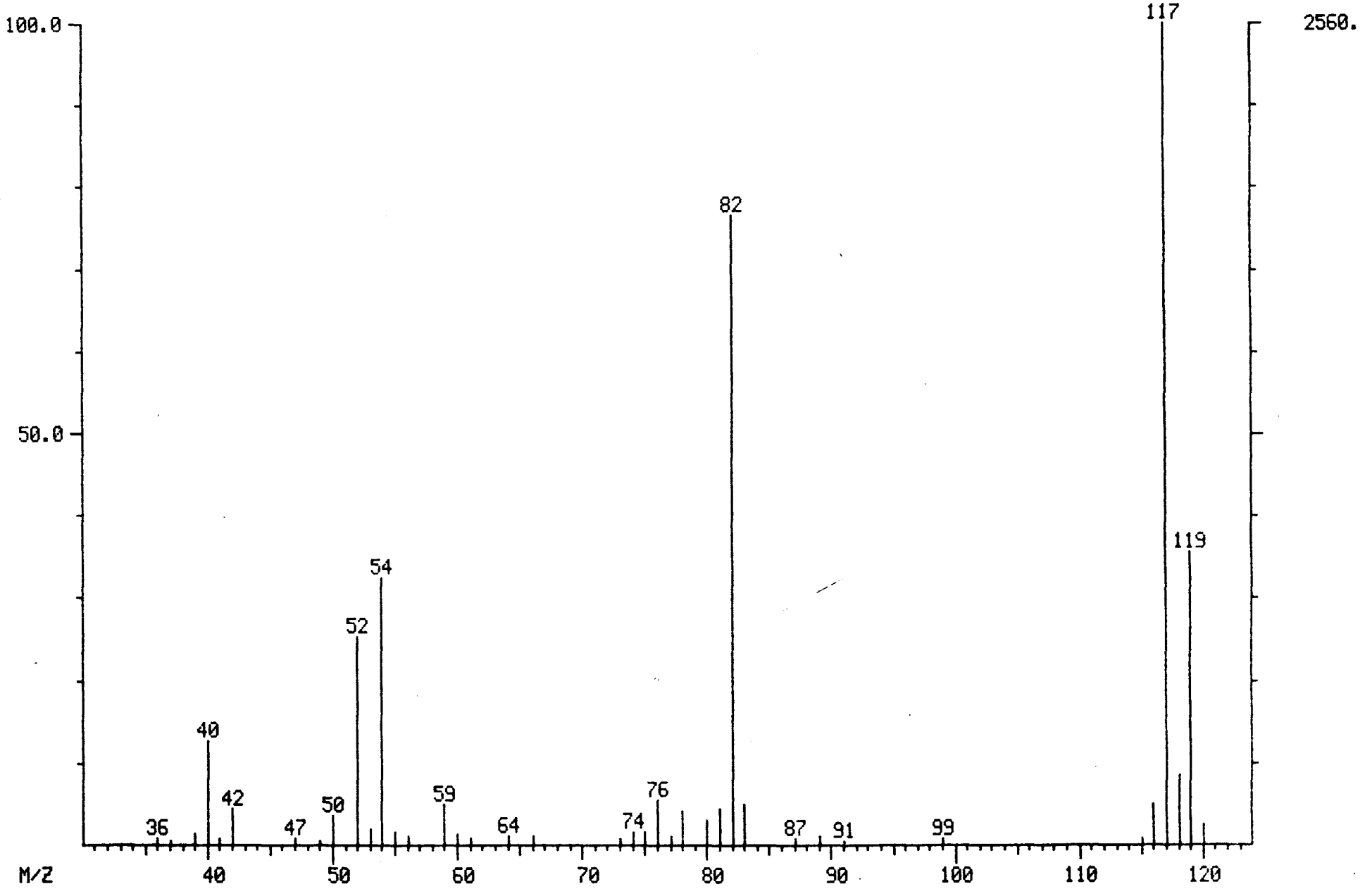
000500



MASS SPECTRUM
04/02/91 14:14:00 + 16:36
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK05 #1245
CALI: A0402BK05 #3

BASE M/Z: 117
RIC: 9168.



9222600072 3

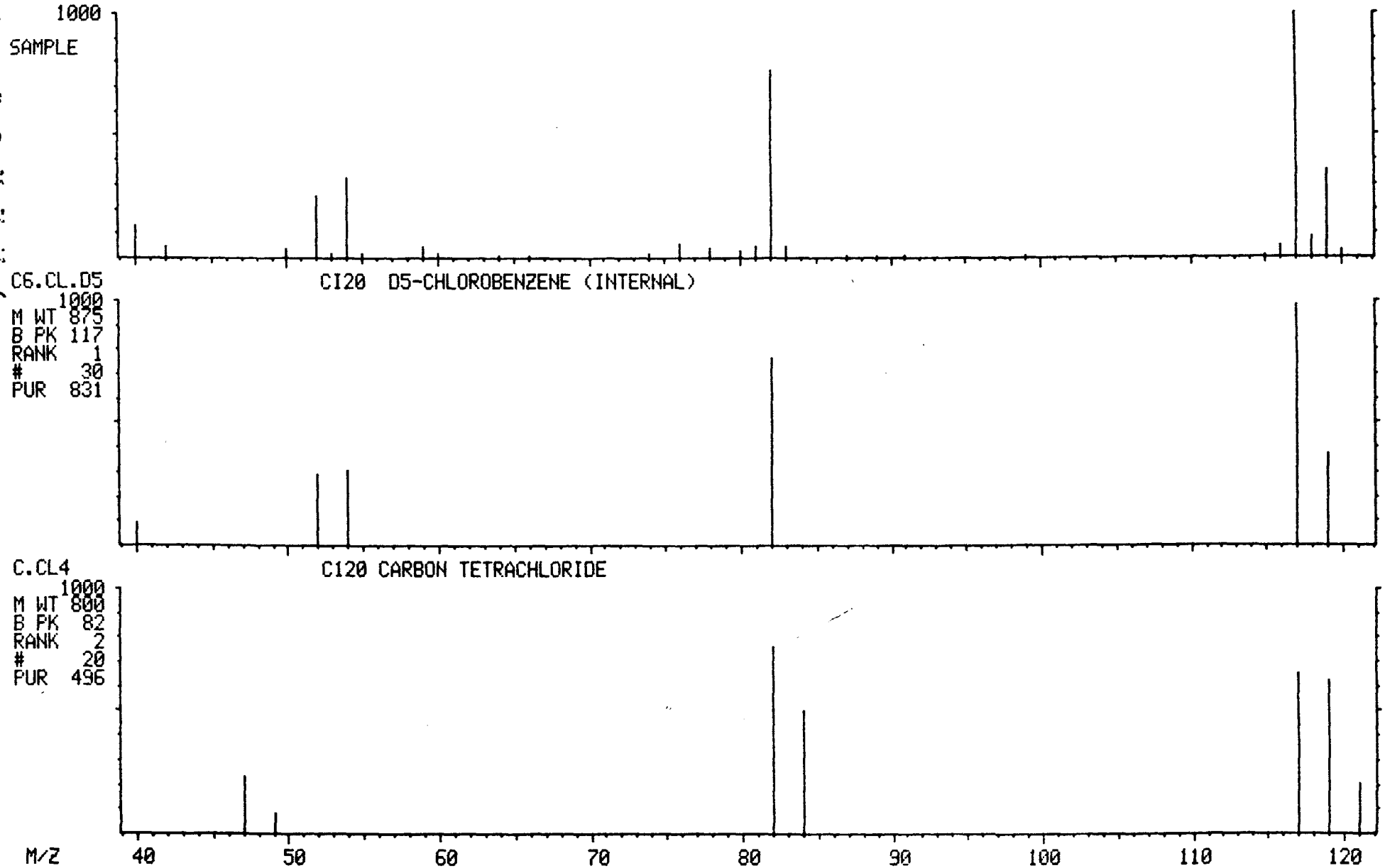
000072

LIBRARY SEARCH
04/02/91 14:14:00 + 16:36
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK05 #1245
CALI: A0402BK05 # 3

BASE M/Z: 117
RIC: 8895.

000048

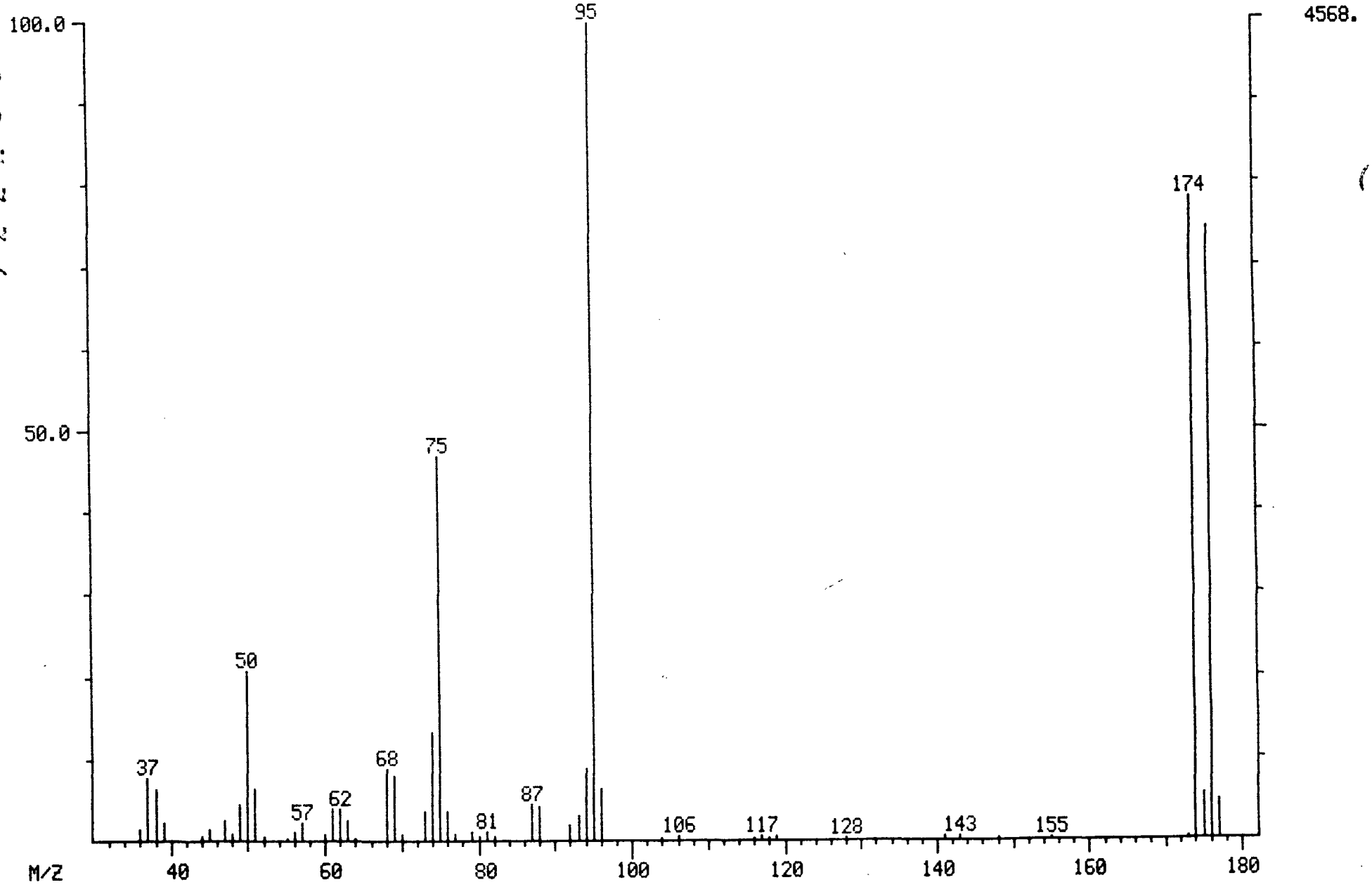


MASS SPECTRUM
04/02/91 14:14:00 + 21:07
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK05 #1584
CALI: A0402BK05 #3

BASE M/Z: 95
RIC: 20864.

000049

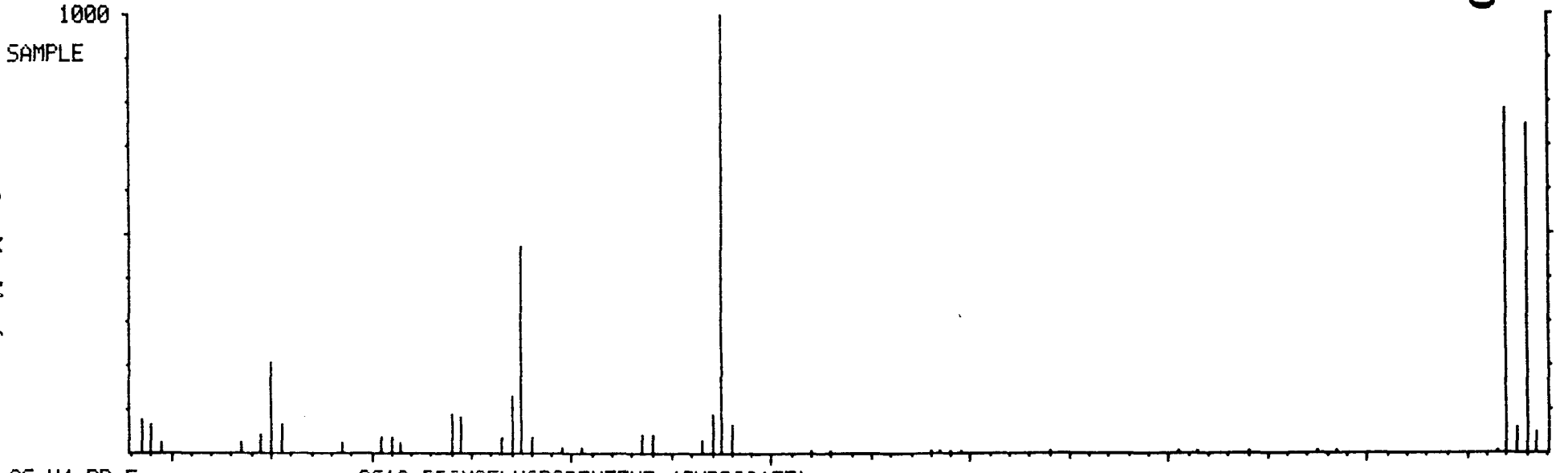


LIBRARY SEARCH
04/02/91 14:14:00 + 21:07
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

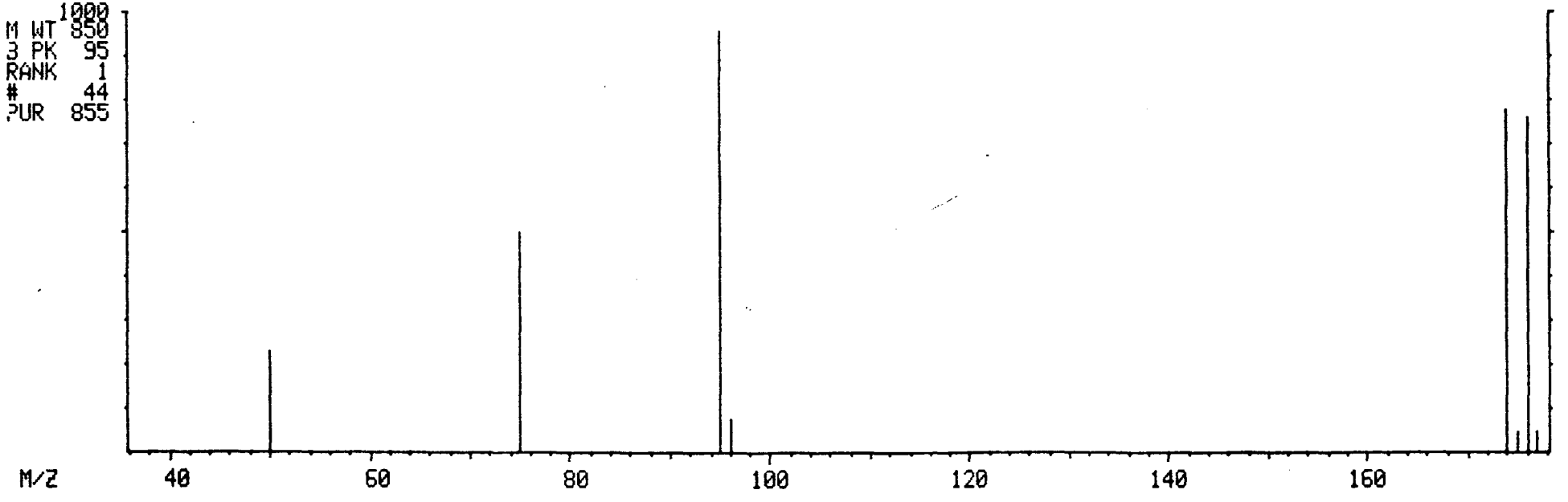
DATA: A0402BK05 #1584
CALI: A0402BK05 # 3

BASE M/Z: 95
RIC: 20319.

000000



C6.H4.BR.F CS10 BROMOFLUOROBENZENE (SURROGATE)

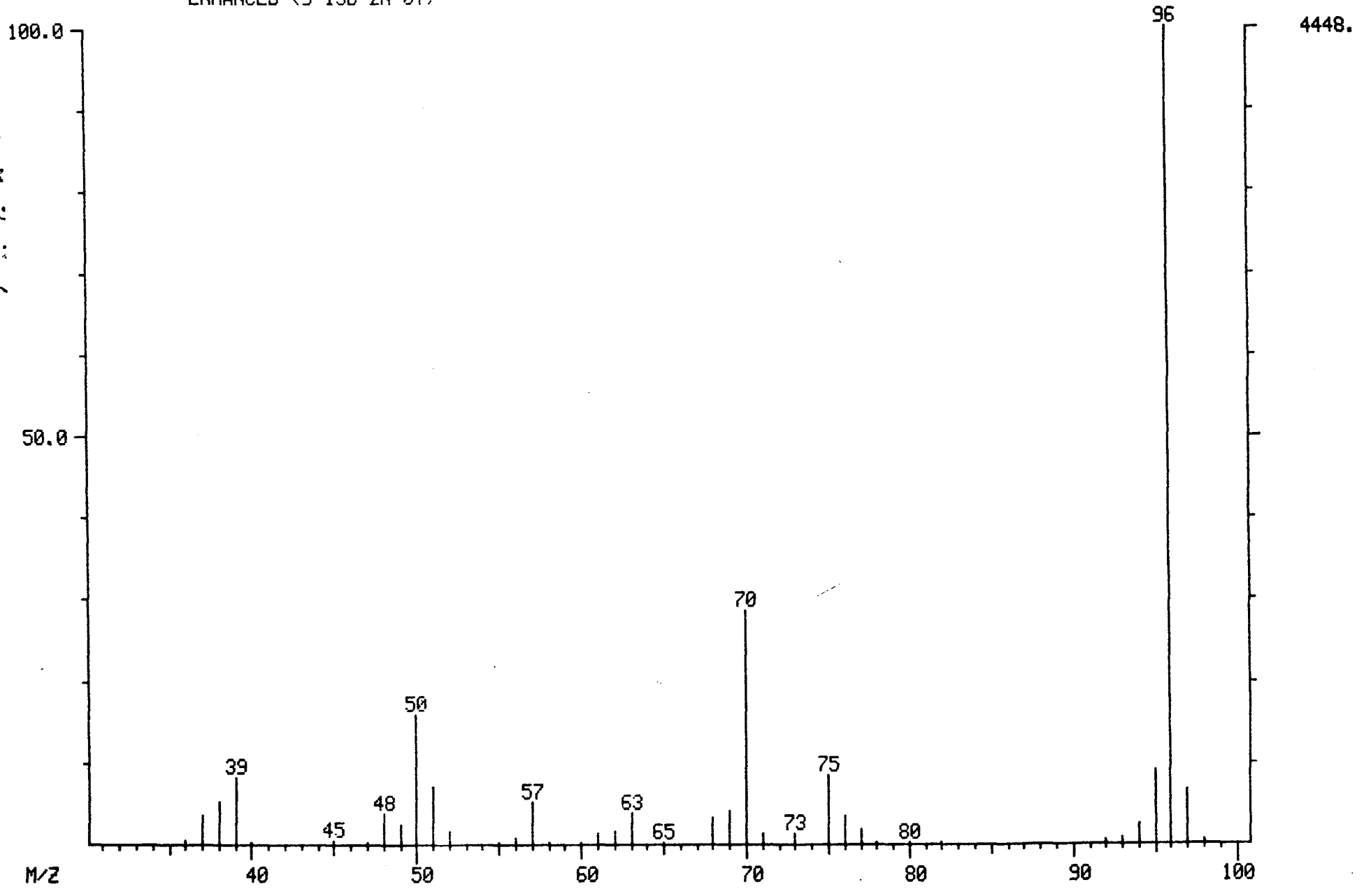


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/02/91 14:14:00 + 5:22
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK05 #403
CALI: A0402BK05 #3

BASE M/Z: 96
RIC: 10640.

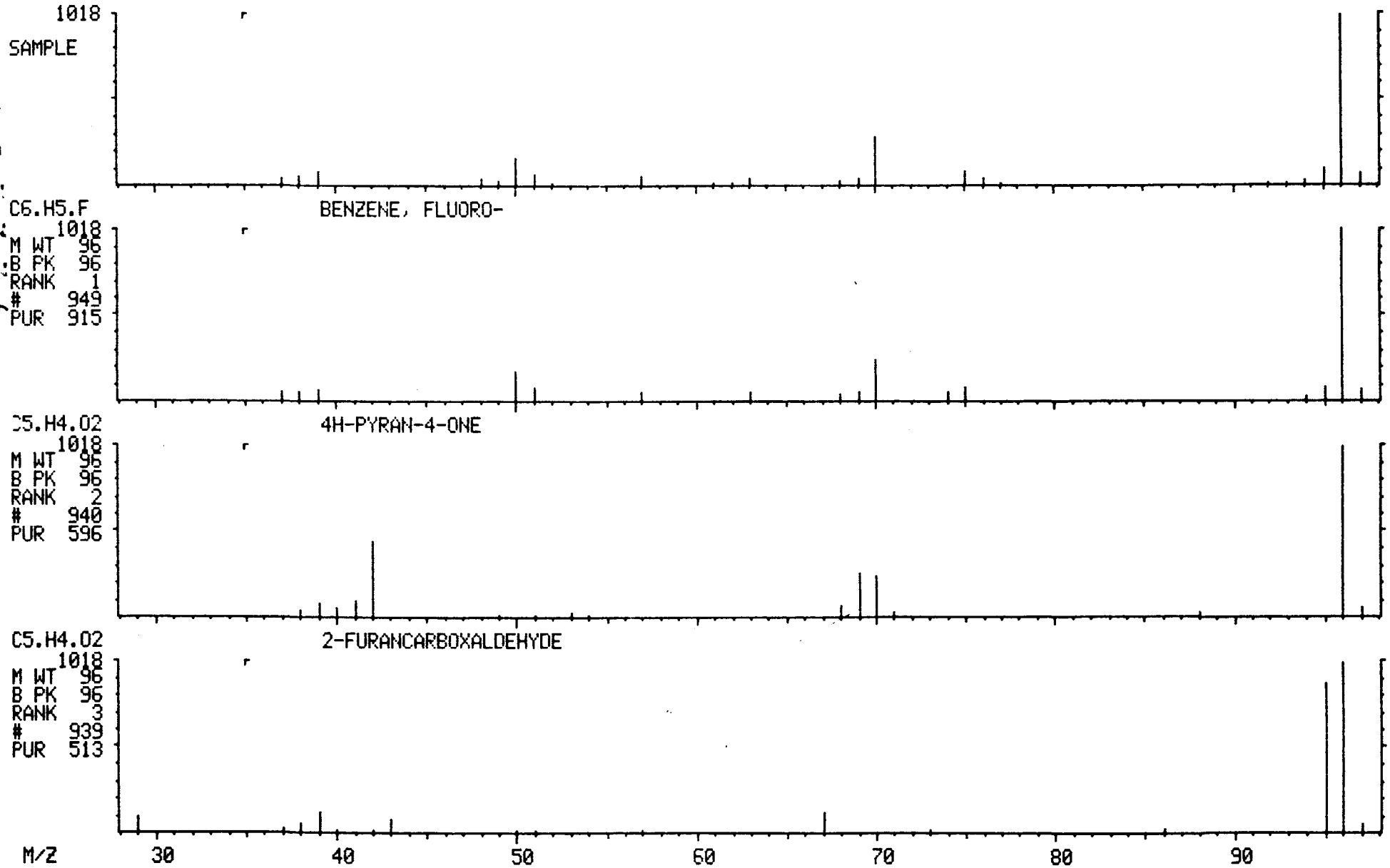


000052

LIBRARY SEARCH
04/02/91 14:14:00 + 5:22
SAMPLE: 90894, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK05 # 403
CALI: A0402BK05 # 3

BASE M/Z: 96
RIC: 10303.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190895

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0402BK06

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G202

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190895

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0402BK06

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/02/91

Column (pack/cap) WIDE Dilution Factor: 1.0

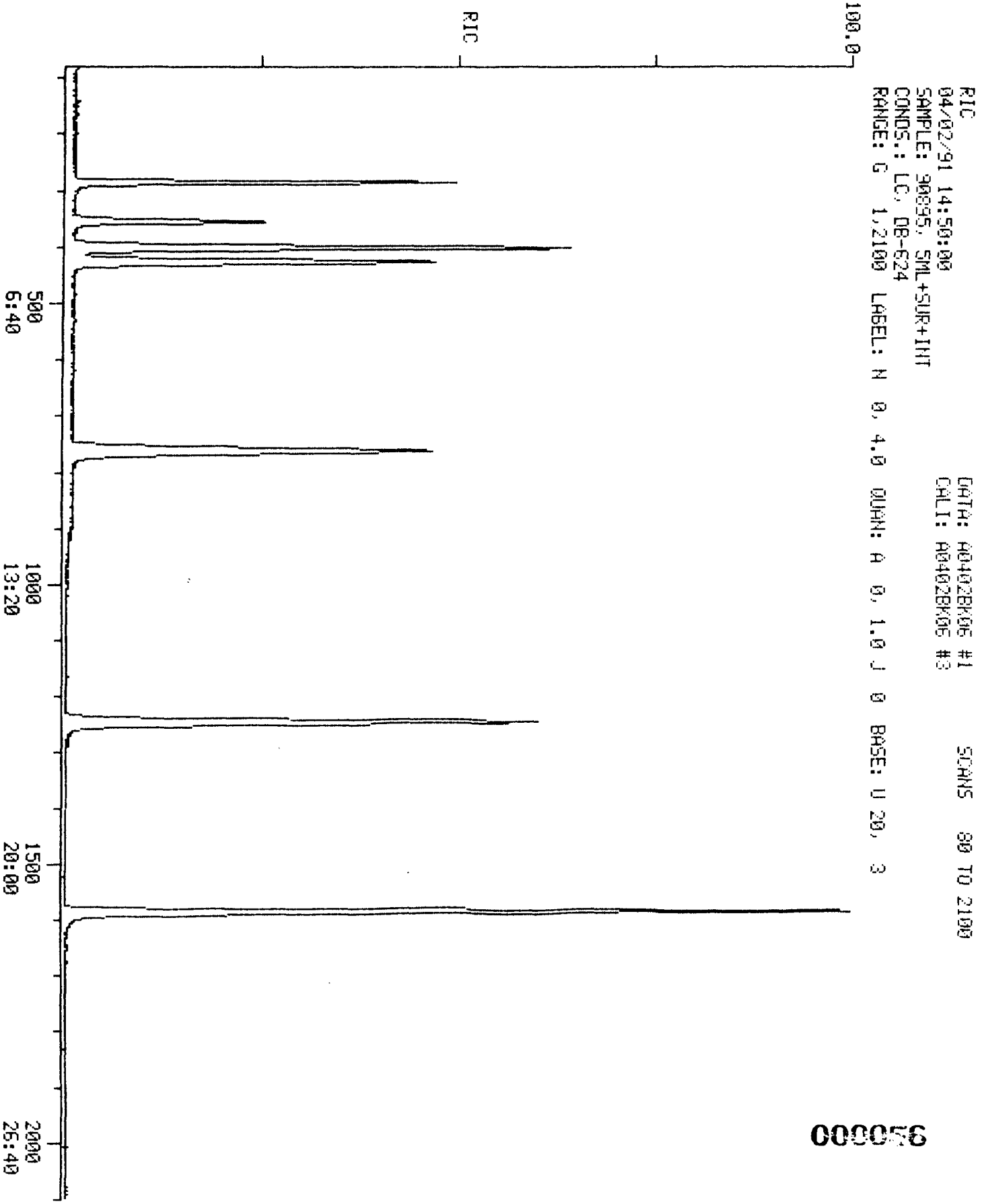
Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000055

TCA FINISHED, 7 FOUND
FINISHED AT: 4/02/91 17:13:23



000056

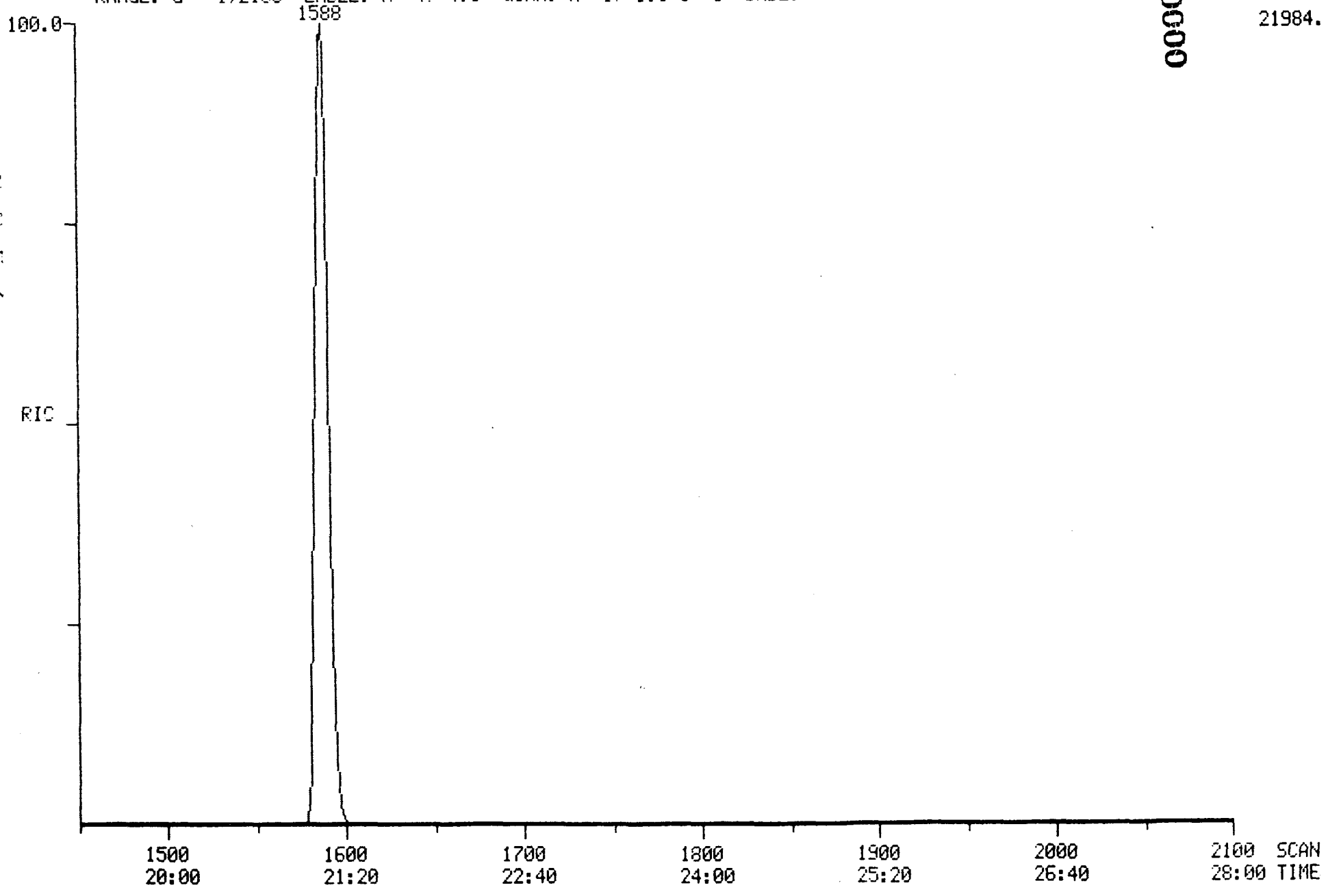
6202

22272

SCA
TIM

RIC
04/02/91 14:50:00
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0402BK06 #1 SCANS 1450 TO 2100
CALI: A0402BK06 #3



21984.

000058

4/2/91 14:50:53 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 14:50:00 + 0:02
Sample: 90895, 5ML+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0: A0402BK06
Free sectors: 4314
Instrument: 5100
Analyst: BK

Acquiring
Scan: 2 of 2100
Weight: 0.000
Acct. No:

*** GC descriptor: LC ***

GC temperature: 32 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	32- 32	-	5.0	5.0
2	32- 52	2.0	10.0	15.0
3	52-130	5.0	15.5	30.5
4	130-130	-	0.5	31.0

Valve times (minutes)

	Open	Close
Sweep/Split	31.0	0.0
Divert	31.0	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 450 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10 Samp int (ms): 0.175
Frag S/P: 10 Actual: 10 Samp int (ms): 0.175

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	130.00	128.00
Resolution (low)	130.00	128.00
Ion energy	6.67	-4.00
Ion programming	4.08	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	2.00	not used

Electron multiplier voltage: -1659.
Electrometer Range: 10 ^-7

000059

4/2/91 15:22:36
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan	per second	
Centroid	2100	3.7	1680.0	0.2	16241.	8.	10.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 17:08:51
DATA FILE: A0402BK06
REFERENCE: CLWTAB11
NAME LIST: CLWDRIVER INITIALIZATION OPTION: 10 PROCESSING OPTION: 3
REPORT: CLWRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	2	1	0	CLWRT1/CLWTC1
1	1	1	0	12	2	2	64	CLWRT2/CLWTC2
1	1	1	0	17	3	1	191	CLWRT3/CLWTC3

44 COMPOUNDS PROCESSED, 7 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	ID	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CW	1	287	287	287	.	1	975	.	128	286	-1	1
2	CW	2	-91	88	.	.	.	.	.	50	.	.	.
3	CW	3	-100	97	.	.	.	.	.	94	.	.	.
4	CW	4	-92	89	.	.	.	.	.	62	.	.	.
5	CW	5	-101	98	.	.	.	.	.	64	.	.	.
6	CW	6	-164	162	.	.	.	.	.	84	166	.	1
7	CW	7	144	142	142	.	1	1000	.	43	143	1	1
8	CW	8	-148	146	.	.	.	.	.	76	.	.	.
9	CW	9	-136	134	.	.	.	.	.	96	.	.	.
10	CW	10	-213	212	.	.	.	.	.	63	.	.	.
11	CW	12	-301	301	.	.	.	.	.	83	.	.	.
12	CW	13	-312	312	.	.	.	.	.	97	.	.	.
13	CW	14	-107	104	.	.	.	.	.	101	.	.	.
14	CW	15	-183	182	.	.	.	.	.	96	.	.	.
15	CW	16	-265	265	.	.	.	.	.	96	.	.	.
16	CW	17	428	427	427	.	1	994	.	114	427	.	1
17	CW	18	-366	365	.	.	.	.	.	62	366	.	2
18	CW	19	-273	273	.	.	.	.	.	72	.	.	.
19	CW	20	-332	332	.	.	.	.	.	117	.	.	.
20	CW	21	-221	221	.	.	.	.	.	43	221	.	2
21	CW	22	-581	580	.	.	.	.	.	83	.	.	.
22	CW	23	-505	504	.	.	.	.	.	63	.	.	.
23	CW	24	-885	884	.	.	.	.	.	75	.	.	.
24	CW	25	-463	462	.	.	.	.	.	130	.	.	.
25	CW	27	-359	359	.	.	.	.	.	78	.	.	.
26	CW	28	-681	680	.	.	.	.	.	106	.	.	.
27	CW	29	356	356	356	.	2	984	.	65	356	.	1
28	CW	30	1245	1245	1245	.	1	998	.	117	1246	1	1
29	CW	26	-1066	1067	.	.	.	.	.	129	.	.	.
30	CW	31	-945	945	.	.	.	.	.	97	.	.	.
31	CW	32	-703	702	.	.	.	.	.	75	.	.	.
32	CW	33	-1070	1071	.	.	.	.	.	43	1071	.	1
33	CW	34	-776	775	.	.	.	.	.	43	774	.	1
34	CW	35	-948	948	.	.	.	.	.	164	.	.	.
35	CW	36	-1659	1662	.	.	.	.	.	83	.	.	.
36	CW	37	-784	783	.	.	.	.	.	91	780	.	1
37	CW	38	-1253	1255	.	.	.	.	.	112	.	.	.
38	CW	39	-1303	1305	.	.	.	.	.	106	.	.	.
39	CW	40	-1458	1461	.	.	.	.	.	104	.	.	.
40	CW	41	-1342	1344	.	.	.	.	.	106	.	.	.
41	CW	42	-1447	1449	.	.	.	.	.	106	.	.	.
42	CW	43	-1496	1499	.	.	.	.	.	173	.	.	.
43	CW	44	1584	1587	1588	1	1	989	.	95	1588	.	1
44	CW	45	763	762	763	1	1	996	.	98	763	.	1

000061

Quantitation Report File: A0402BK06

Data: A0402BK06.TI
04/02/91 14:50:00
Sample: 90895, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	286	3:49	1	1.000	A BB	7631.	50.000 UG/L	10.91
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	166	2:13	1	0.580	A BB	70.	~~0.306 UG/L~~	0.07
7	43	143	1:54	1	0.500	A BV	644.	8.315 UG/L	1.81
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	114	427	5:42	16	1.000	A BB	34613.	50.000 UG/L	10.91
17	62	366	4:53	16	0.857	A*BB	85.	~~0.271 UG/L~~	0.06
18	NOT FOUND								
19	NOT FOUND								
20	43	221	2:57	16	0.518	A*VB	206.	~~0.525 UG/L~~	0.11
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	65	356	4:45	16	0.834	A BB	13233.	101.072 %	22.05
28	117	1246	16:37	28	1.000	A BB	38877.	50.000 UG/L	10.91
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	43	1071	14:17	28	0.860	A VB	79.	~~0.321 UG/L~~	0.07
33	43	774	10:19	28	0.621	A VB	48.	~~0.153 UG/L~~	0.03
34	NOT FOUND								
35	NOT FOUND								
36	91	780	10:24	28	0.626	A BB	24.	~~0.028 UG/L~~	0.01
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	95	1588	21:10	28	1.274	A BB	40046.	98.515 %	21.49
44	98	763	10:10	28	0.612	A BB	40385.	99.119 %	21.62

Quantitation Report File: A0402BK06A

Data: A0402BK06.TI
04/02/91 14:50:00
Sample: 90895, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

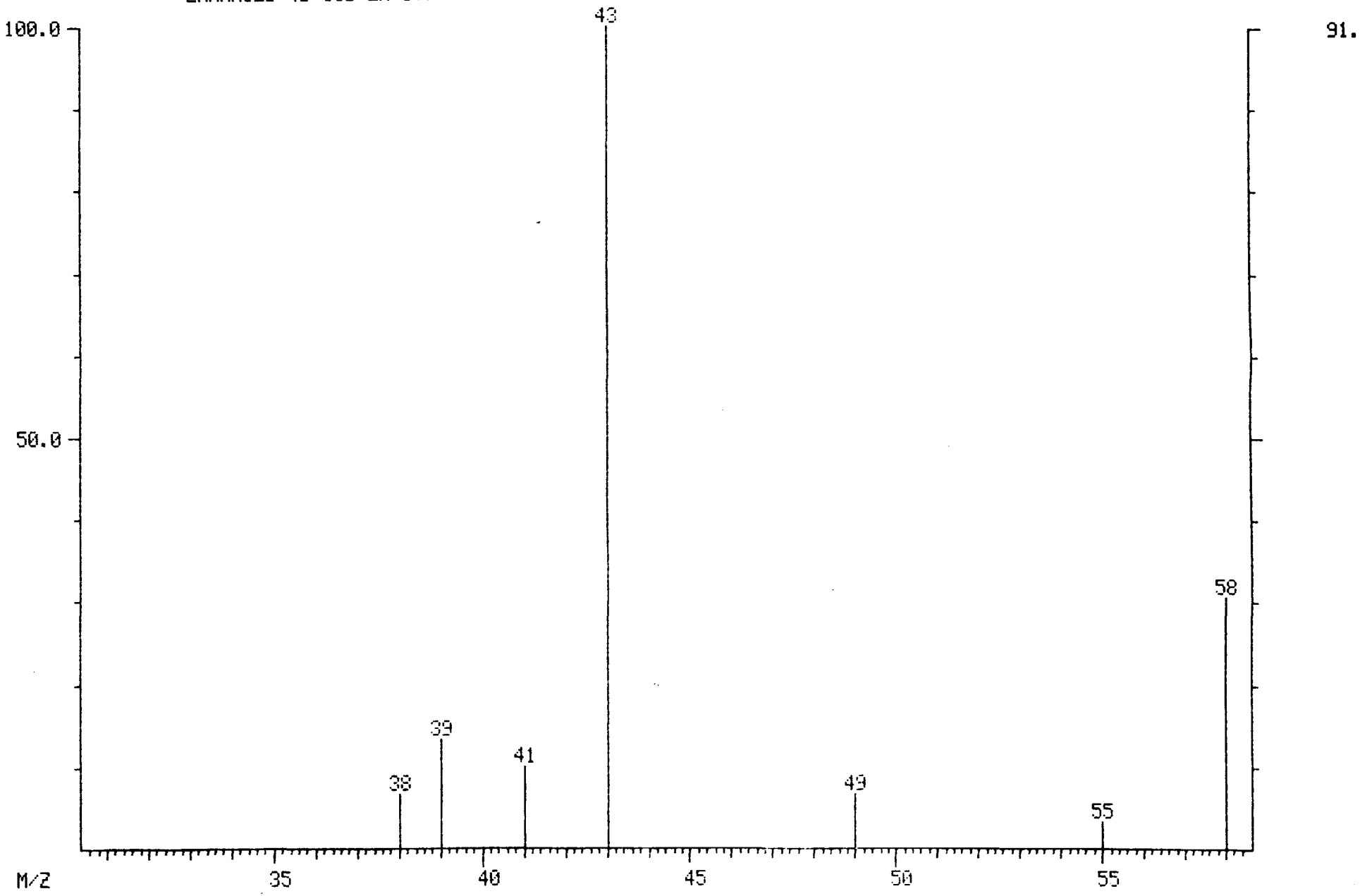
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
01	RIC	403	5:22	1	1.000	A BB	128414.	66.200	*100.

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/02/91 14:50:00 + 1:54
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 37 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 #143
CALI: A0402BK06 #3

BASE M/Z: 43
RIC: 155.



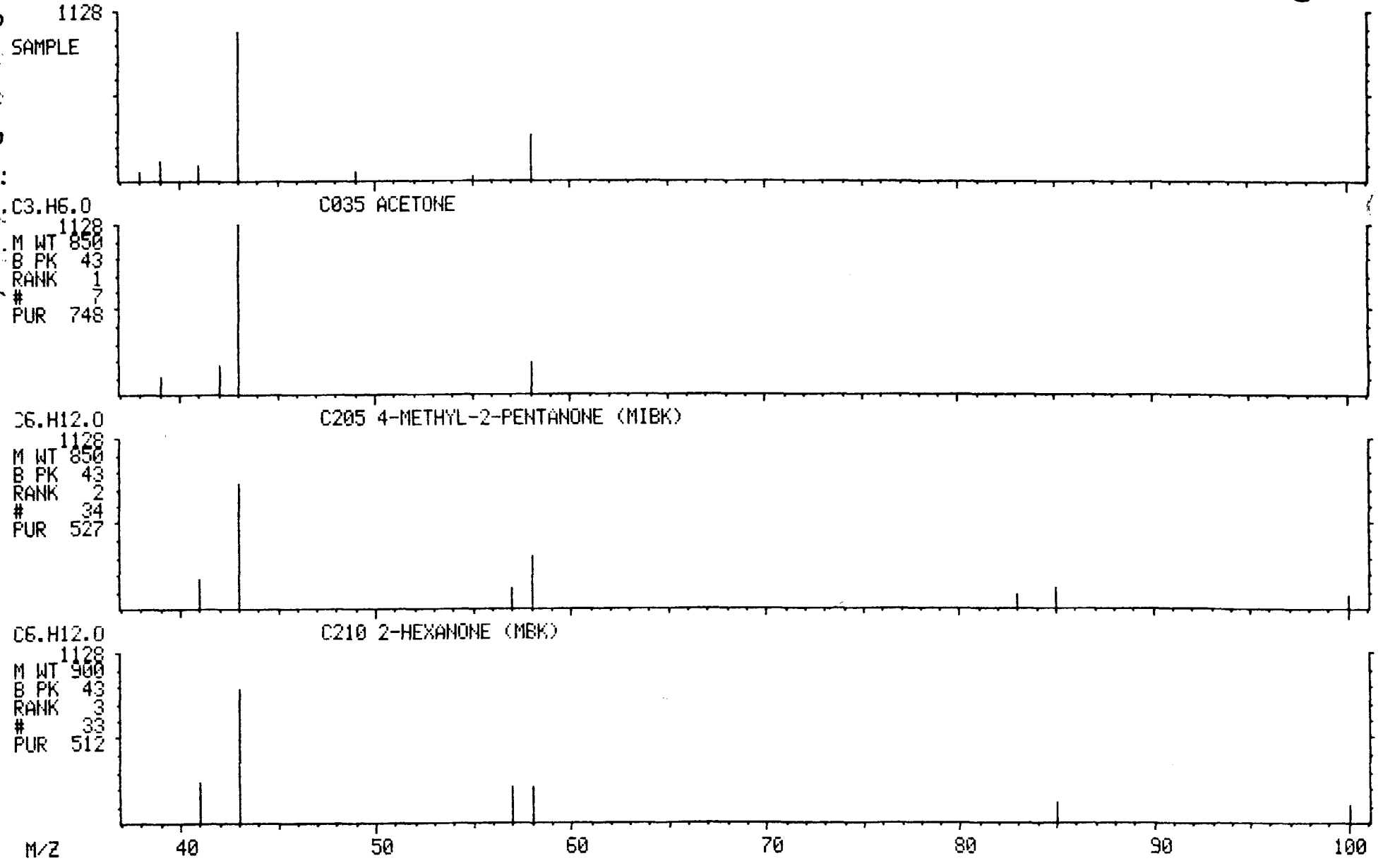
990000

LIBRARY SEARCH
04/02/91 14:50:00 + 1:54
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 # 143
CALI: A0402BK06 # 3

BASE M/Z: 43
RIC: 154.

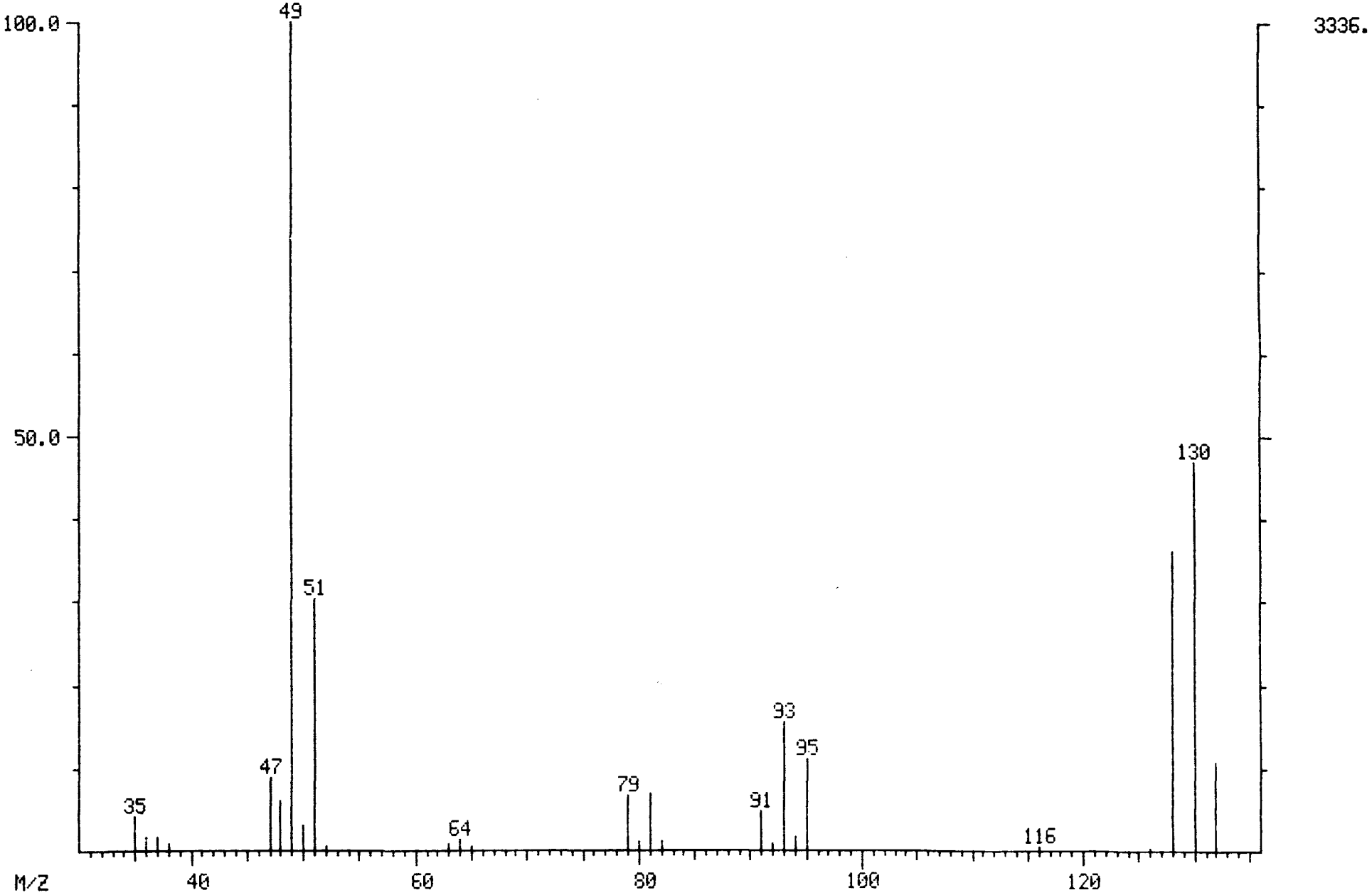
000067



MASS SPECTRUM
04/02/91 14:50:00 + 3:49
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 #286
CALI: A0402BK06 #3

BASE M/Z: 49
RIC: 10144.



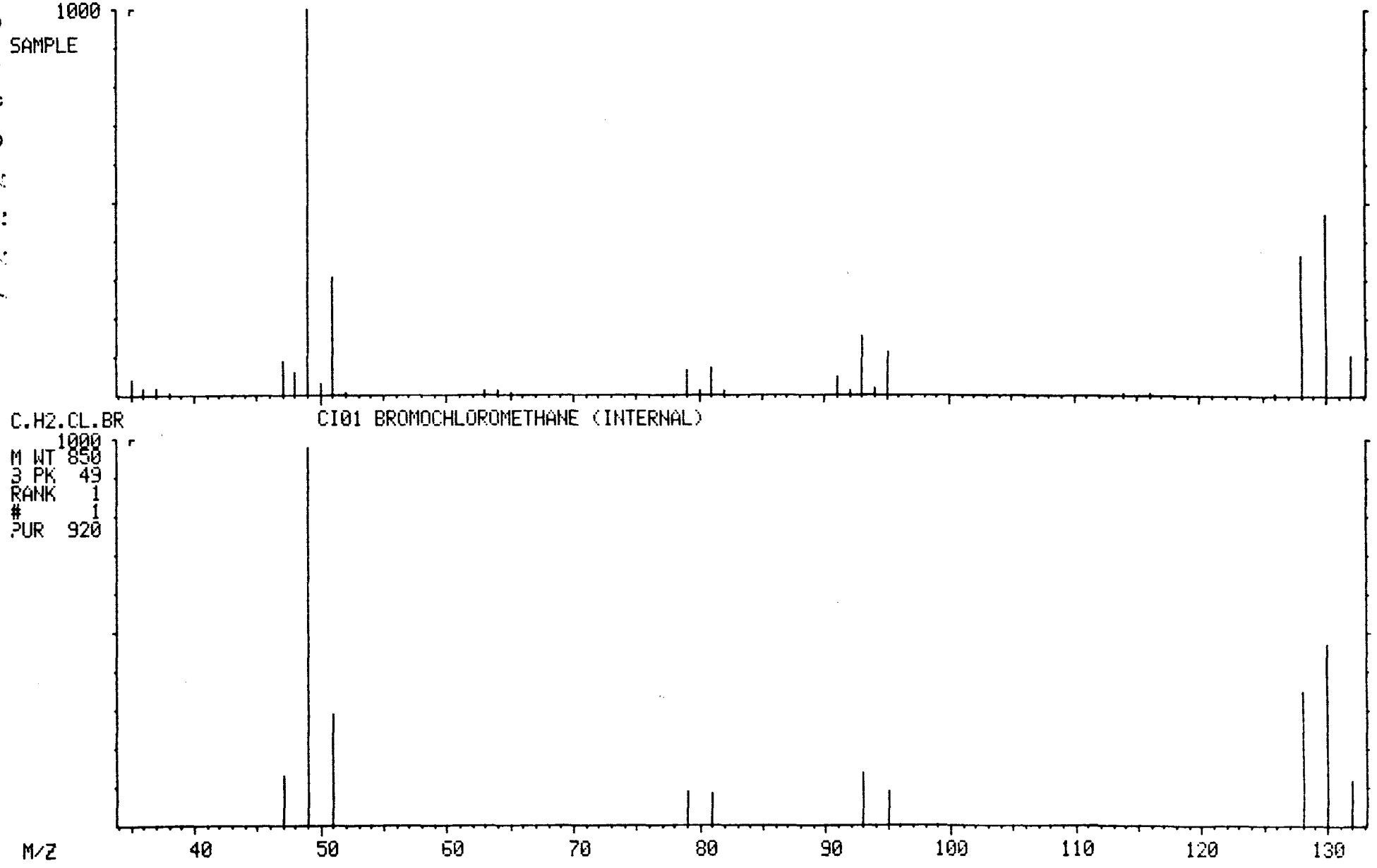
930000

LIBRARY SEARCH
04/02/91 14:50:00 + 3:49
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 # 286
CALI: A0402BK06 # 3

BASE M/Z: 49
RIC: 10143.

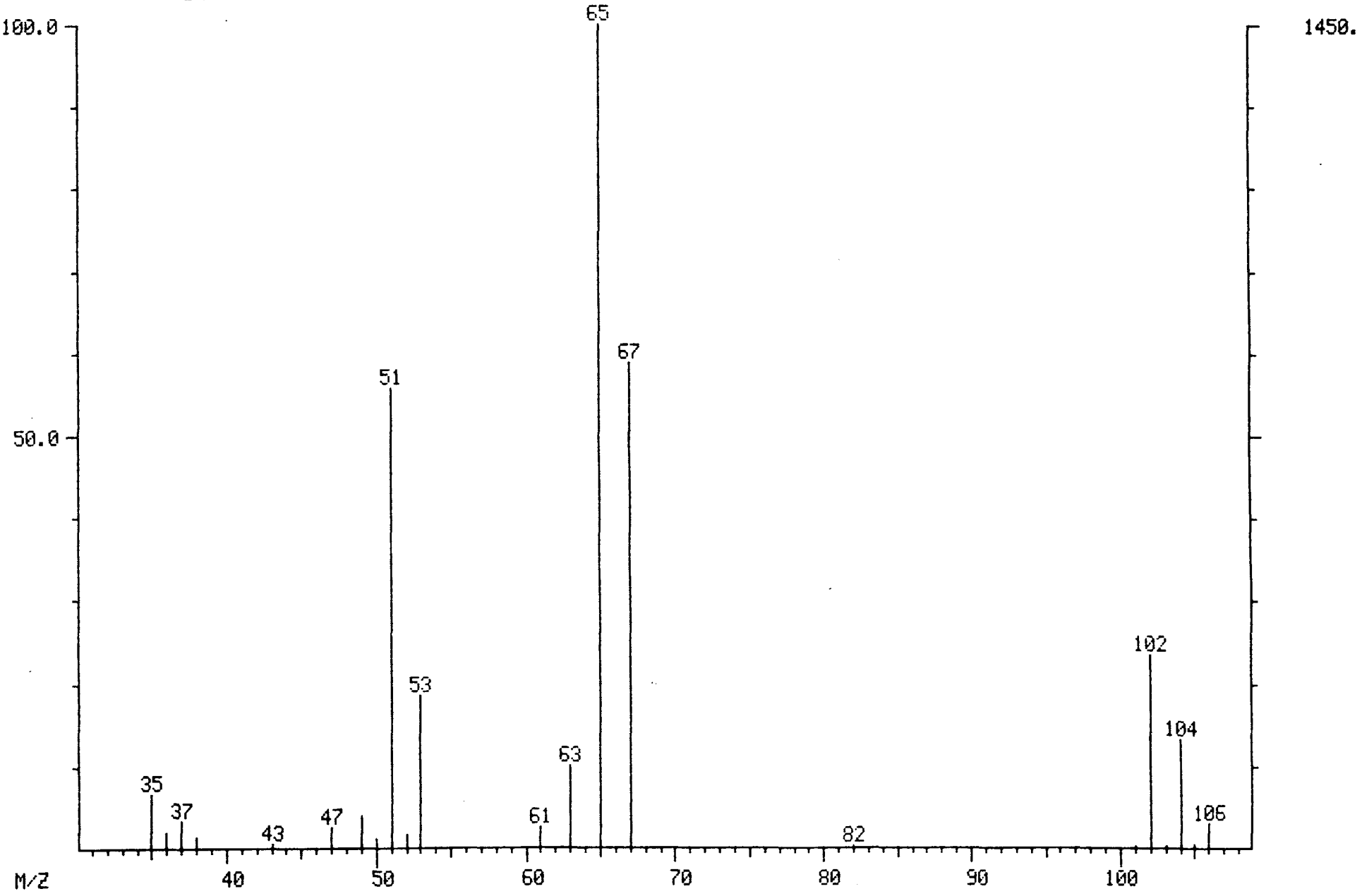
000069



MASS SPECTRUM
04/02/91 14:50:00 + 4:45
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 #356
CALI: A0402BK06 #3

BASE M/Z: 65
RIC: 4504.

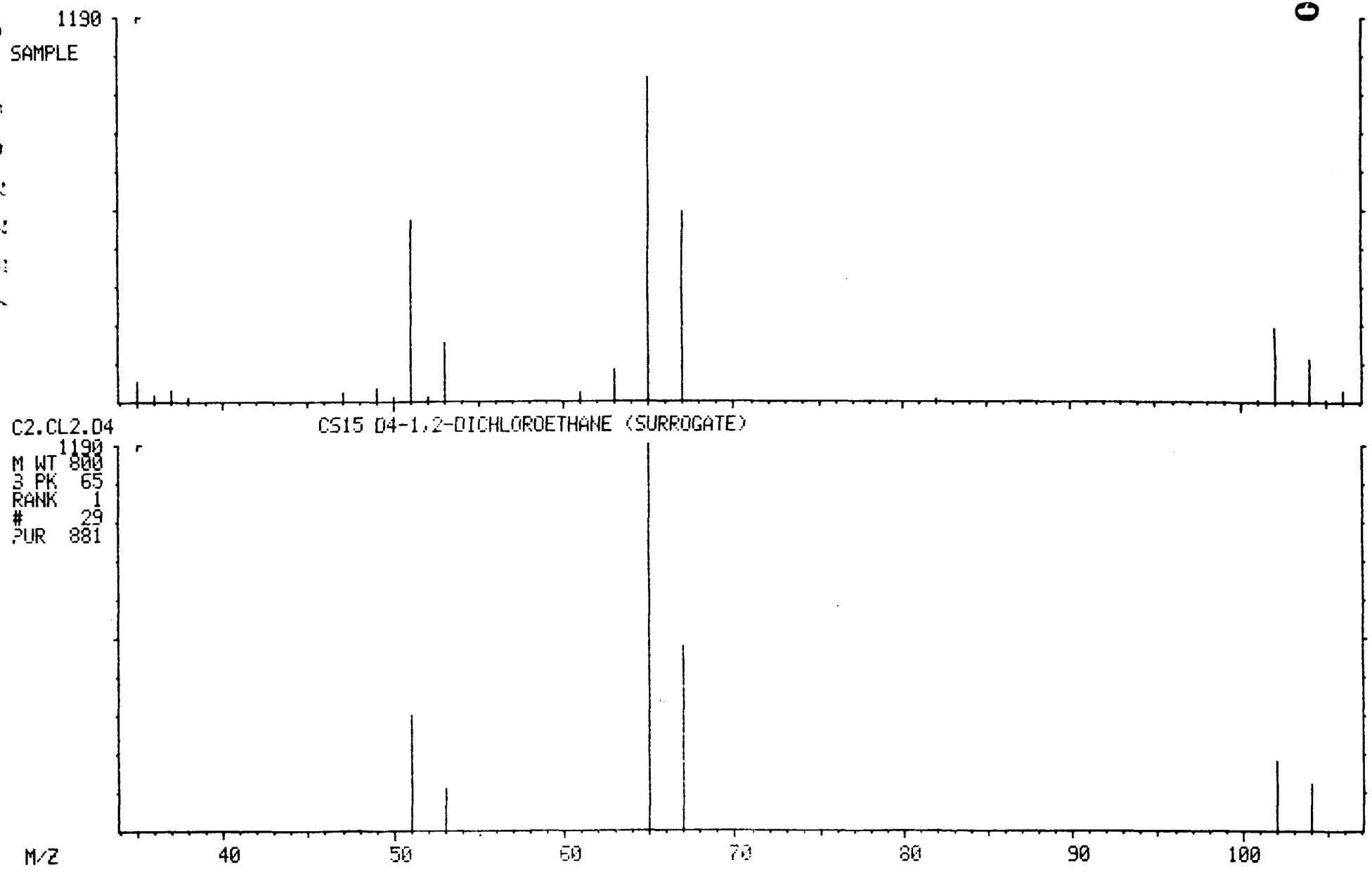


LIBRARY SEARCH
04/02/91 14:50:00 + 4:45
SAMPLE: 90835, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 # 356
CALI: A0402BK06 # 3

BASE M/Z: 65
RIC: 4435.

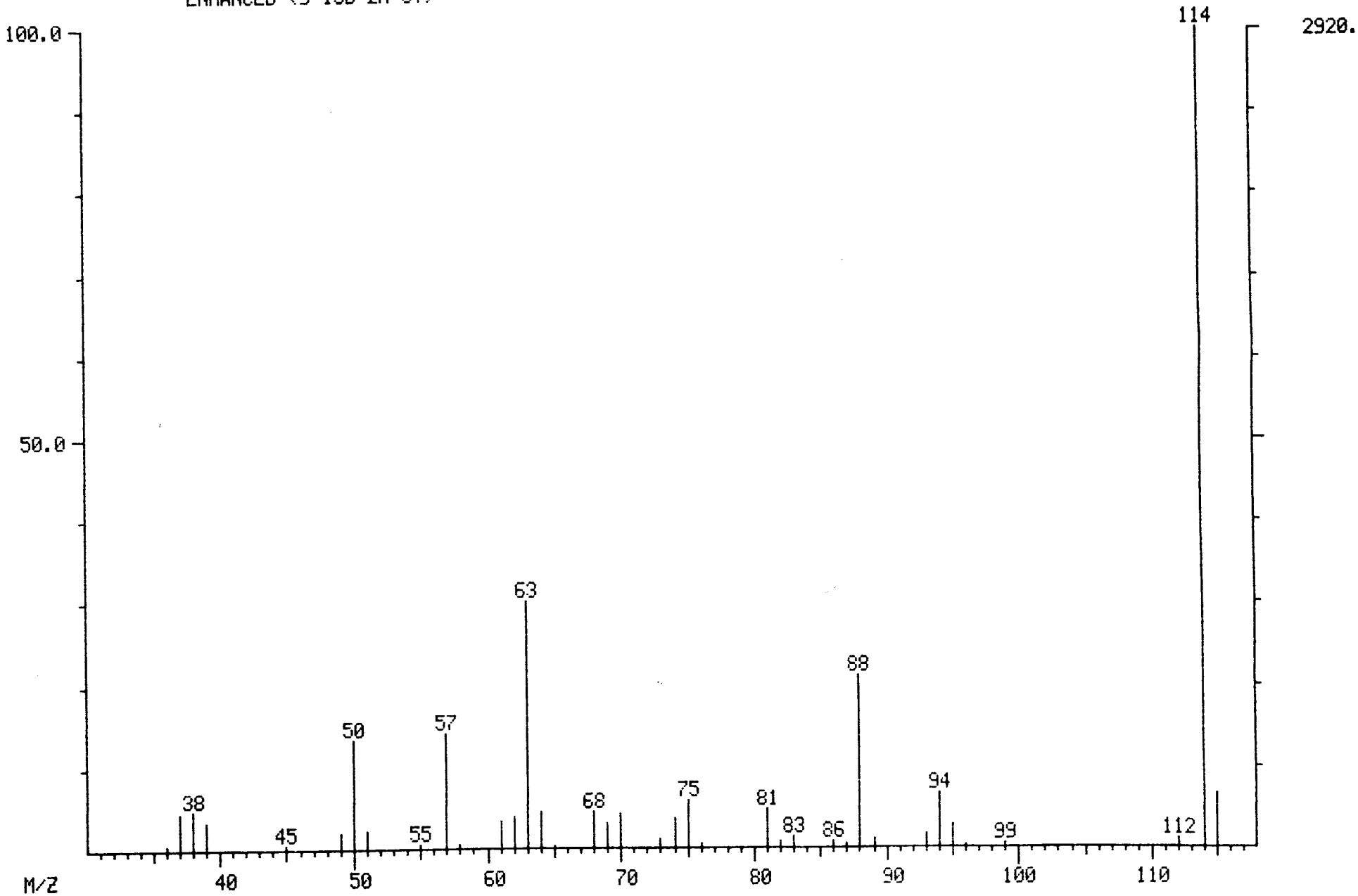
000071



MASS SPECTRUM
04/02/91 14:50:00 + 5:42
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 #427
CALI: A0402BK06 #3

BASE M/Z: 114
RIC: 7632.



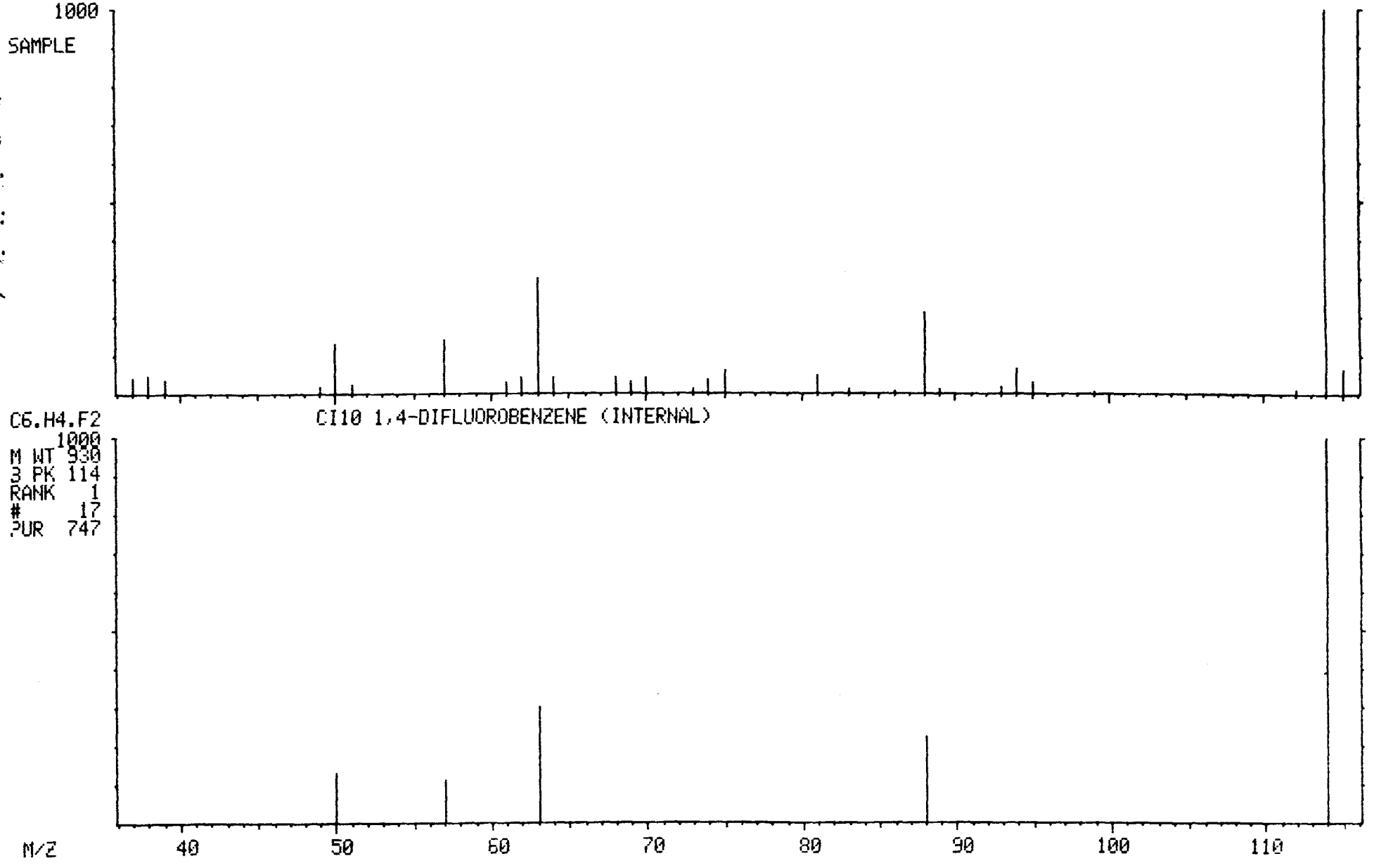
000072

LIBRARY SEARCH
04/02/91 14:50:00 + 5:42
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 # 427
CALI: A0402BK06 # 3

BASE M/Z: 114
RIC: 7471.

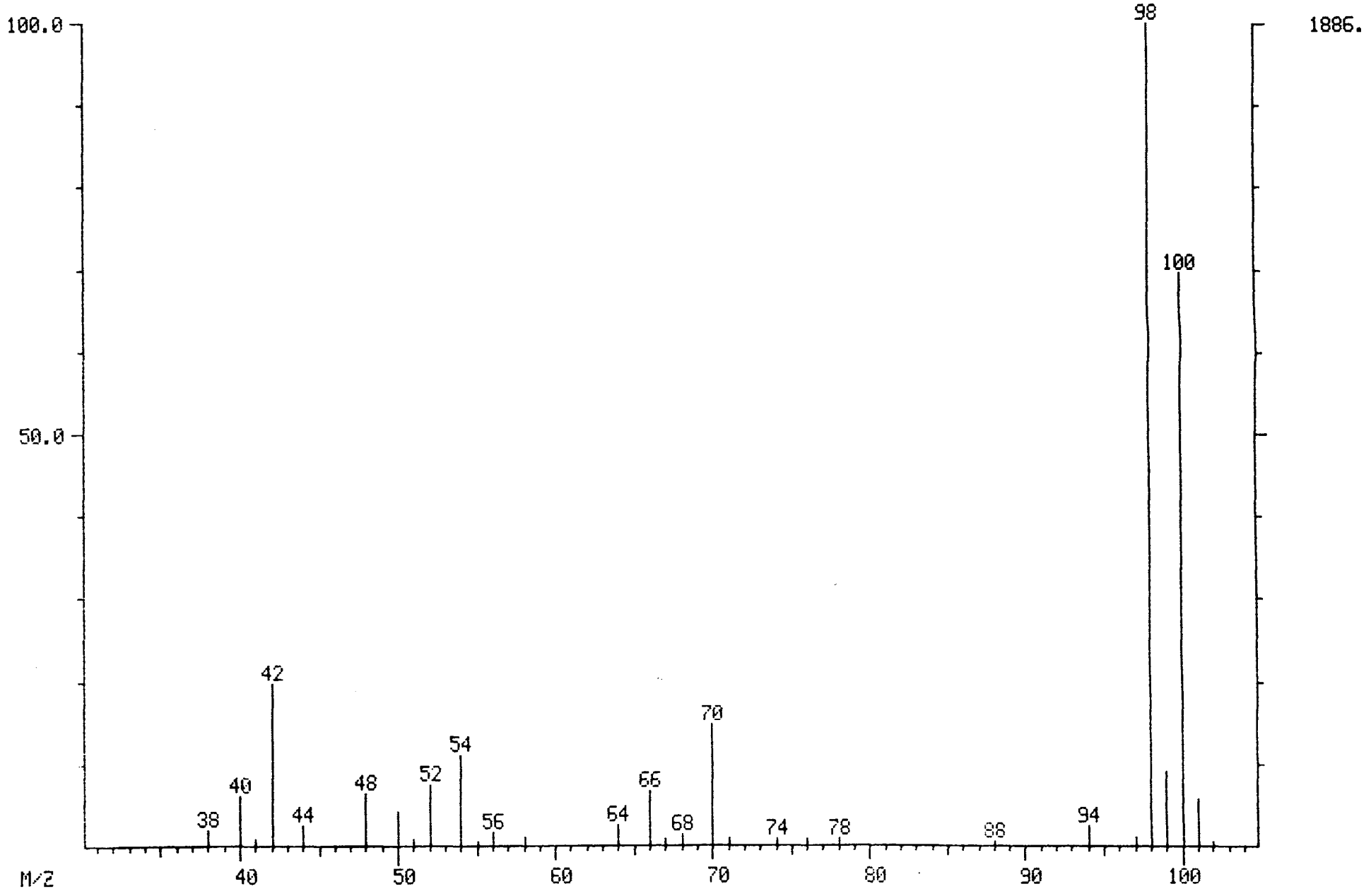
000073



MASS SPECTRUM
04/02/91 14:50:00 + 10:10
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 #763
CALI: A0402BK06 #3

BASE M/Z: 98
RIC: 5352.



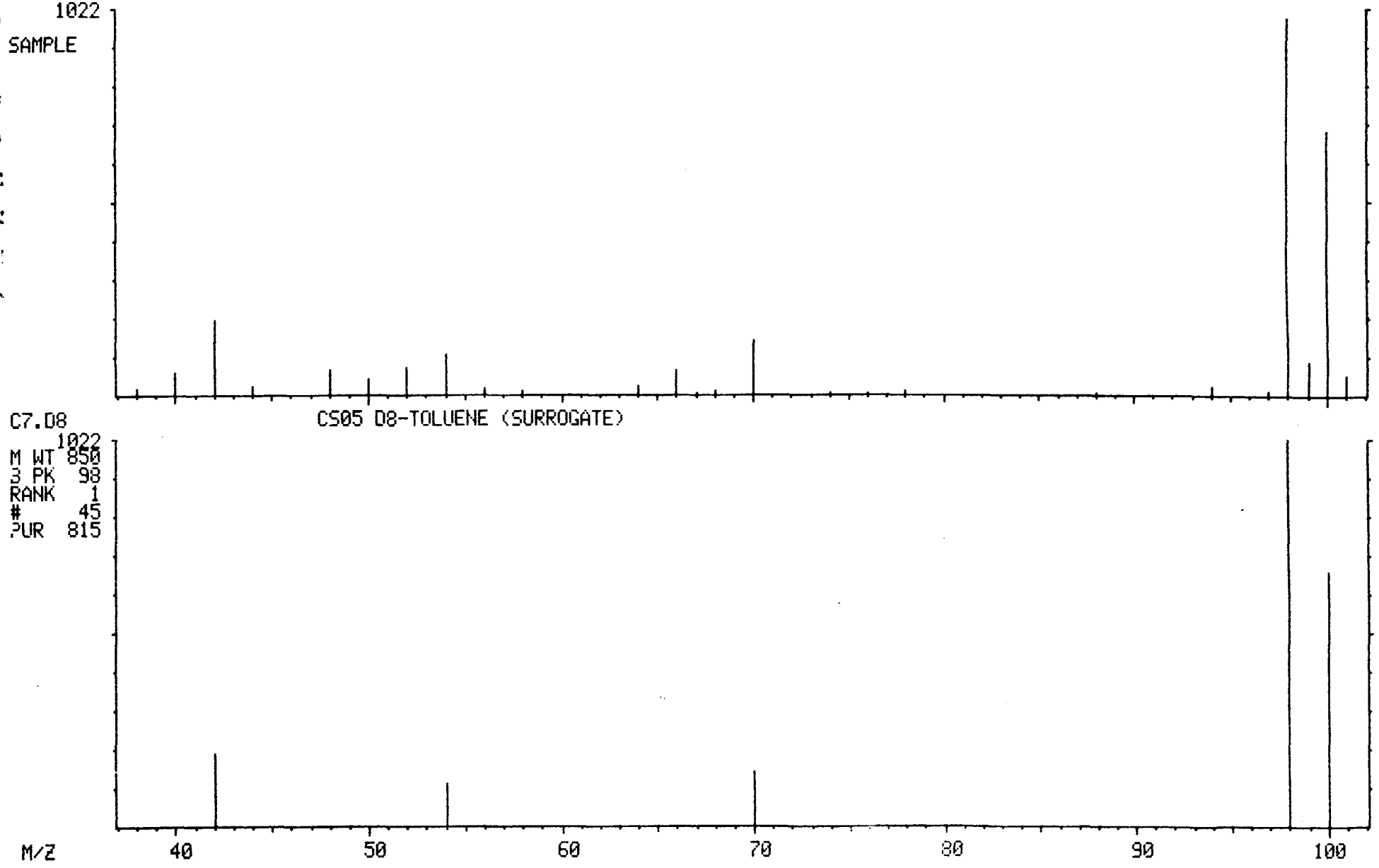
000074

LIBRARY SEARCH
04/02/91 14:50:00 + 10:10
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 # 763
CALI: A0402BK06 # 3

BASE M/Z: 98
RIC: 5279.

000075

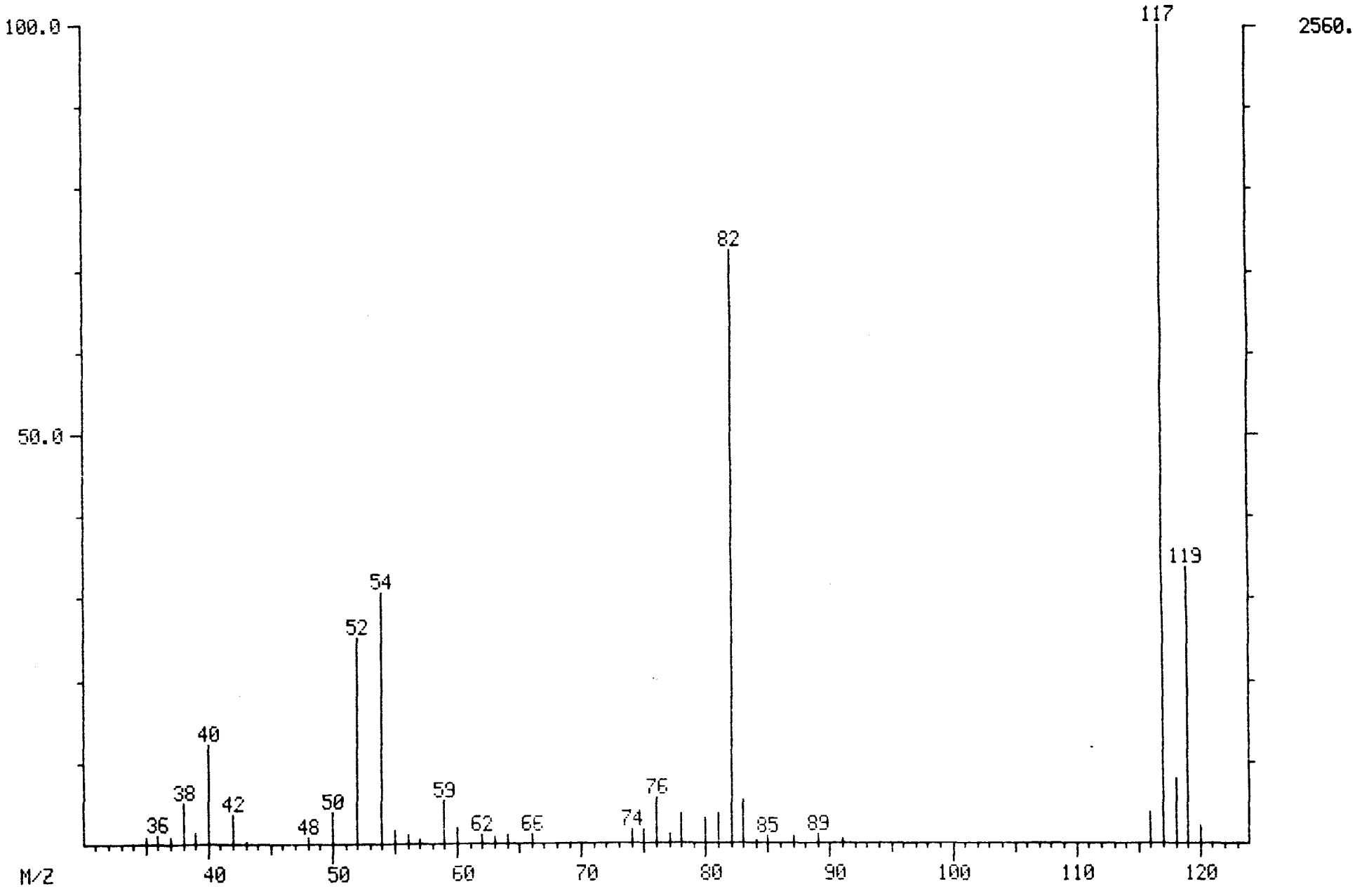


MASS SPECTRUM
04/02/91 14:50:00 + 16:37
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 60 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 #1246
CALI: A0402BK06 #3

BASE M/Z: 117
RIC: 8960.

000076

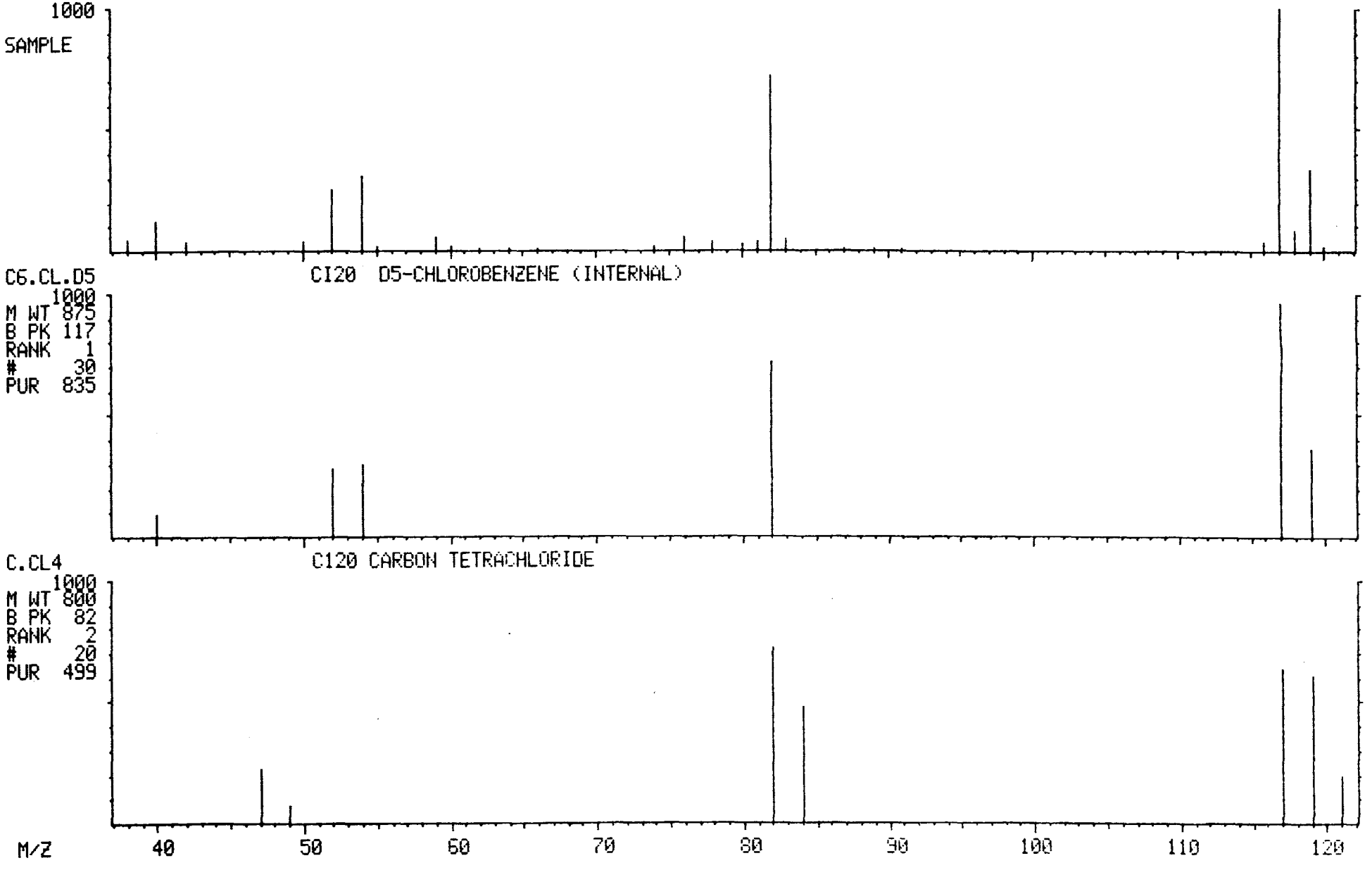


LIBRARY SEARCH
04/02/91 14:50:00 + 16:37
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 #1246
CALI: A0402BK06 # 3

BASE M/Z: 117
RIC: 8655.

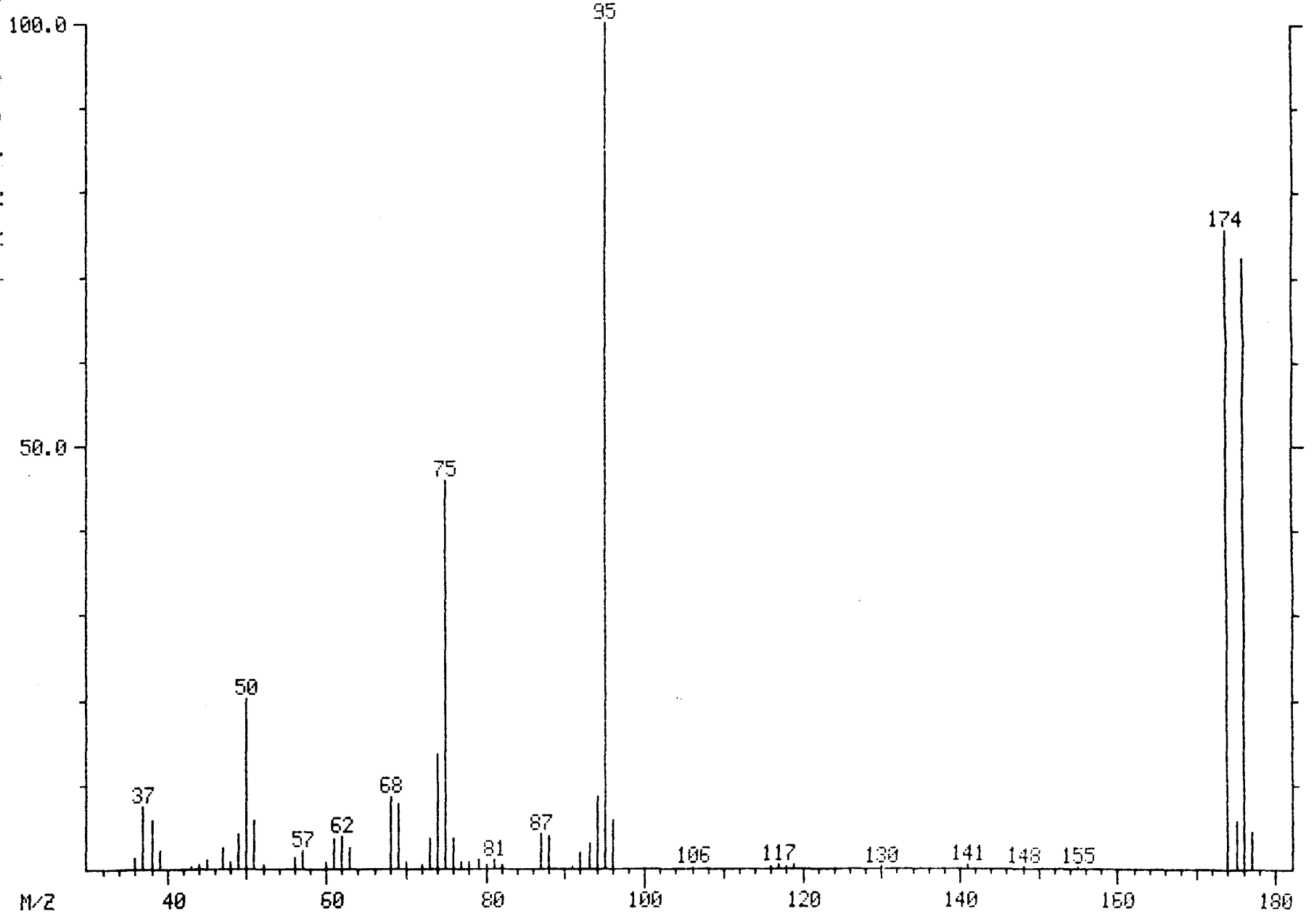
000077



MASS SPECTRUM
04/02/91 14:50:00 + 21:10
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 #1588
CALI: A0402BK06 #3

BASE M/Z: 95
RIC: 19328.



4328.

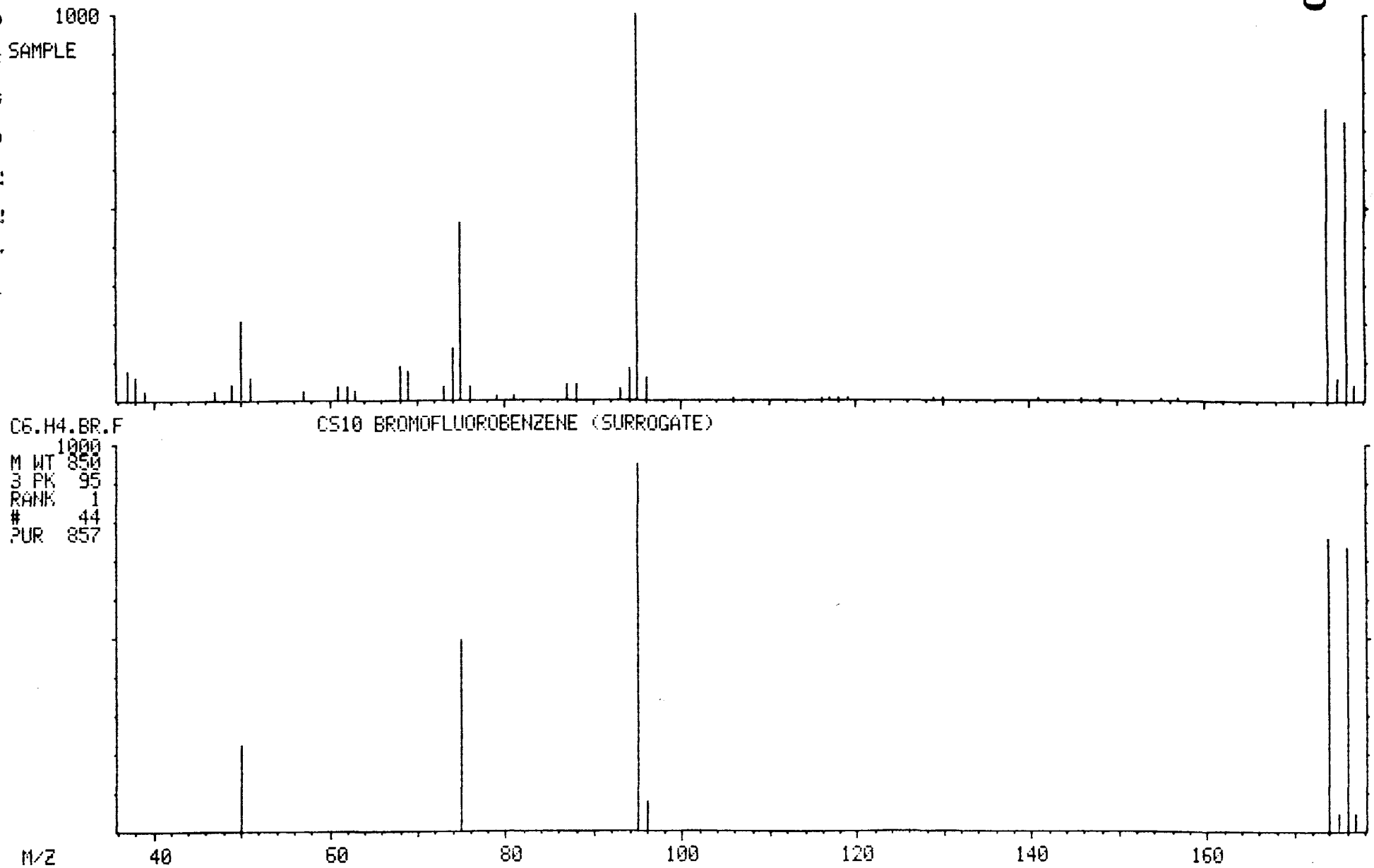
000008

LIBRARY SEARCH
04/02/91 14:50:00 + 21:10
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 #1588
CALI: A0402BK06 # 3

BASE M/Z: 95
RIC: 18751.

000079

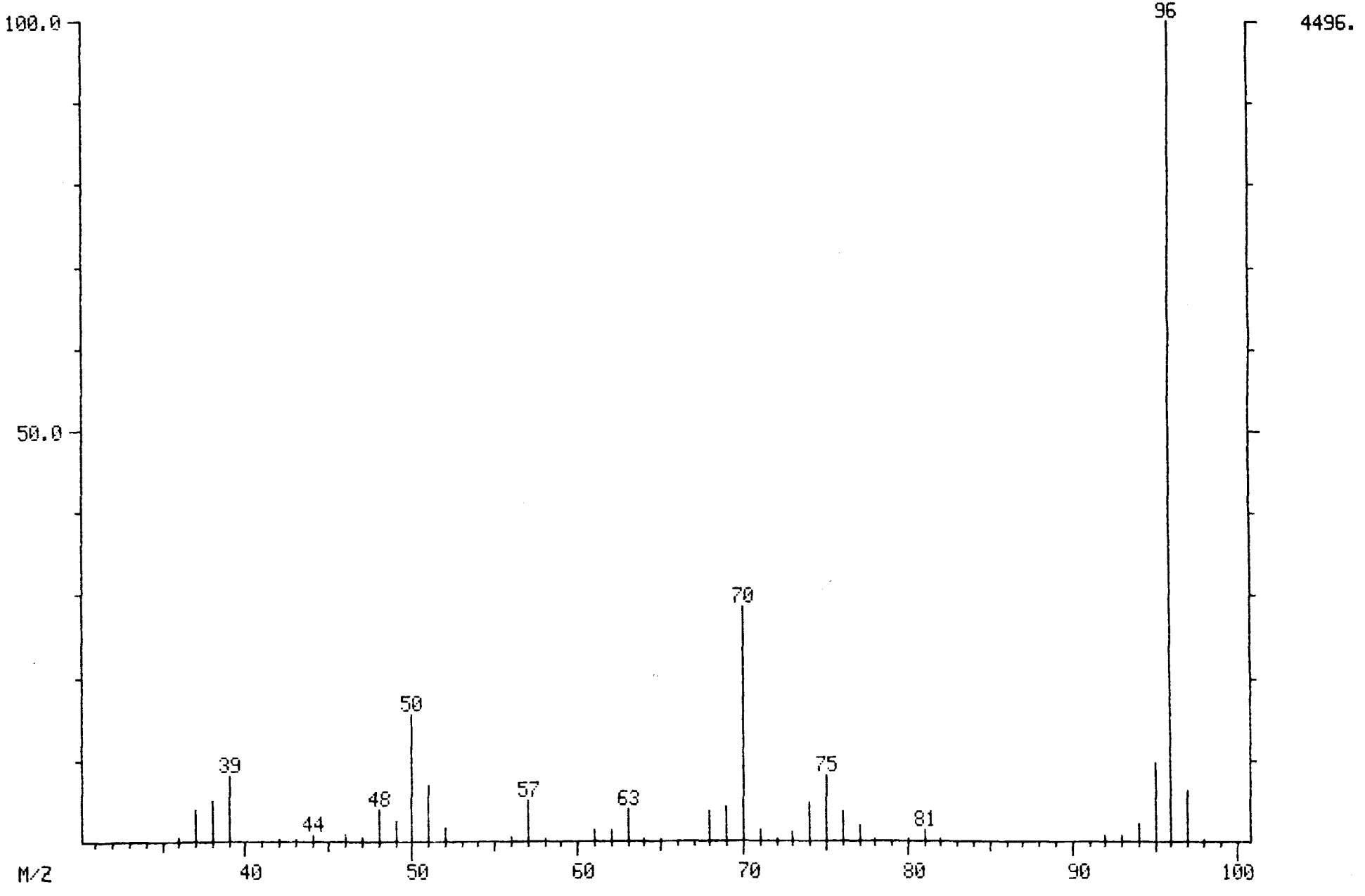


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/02/91 14:50:00 + 5:22
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 #403
CALI: A0402BK06 #3

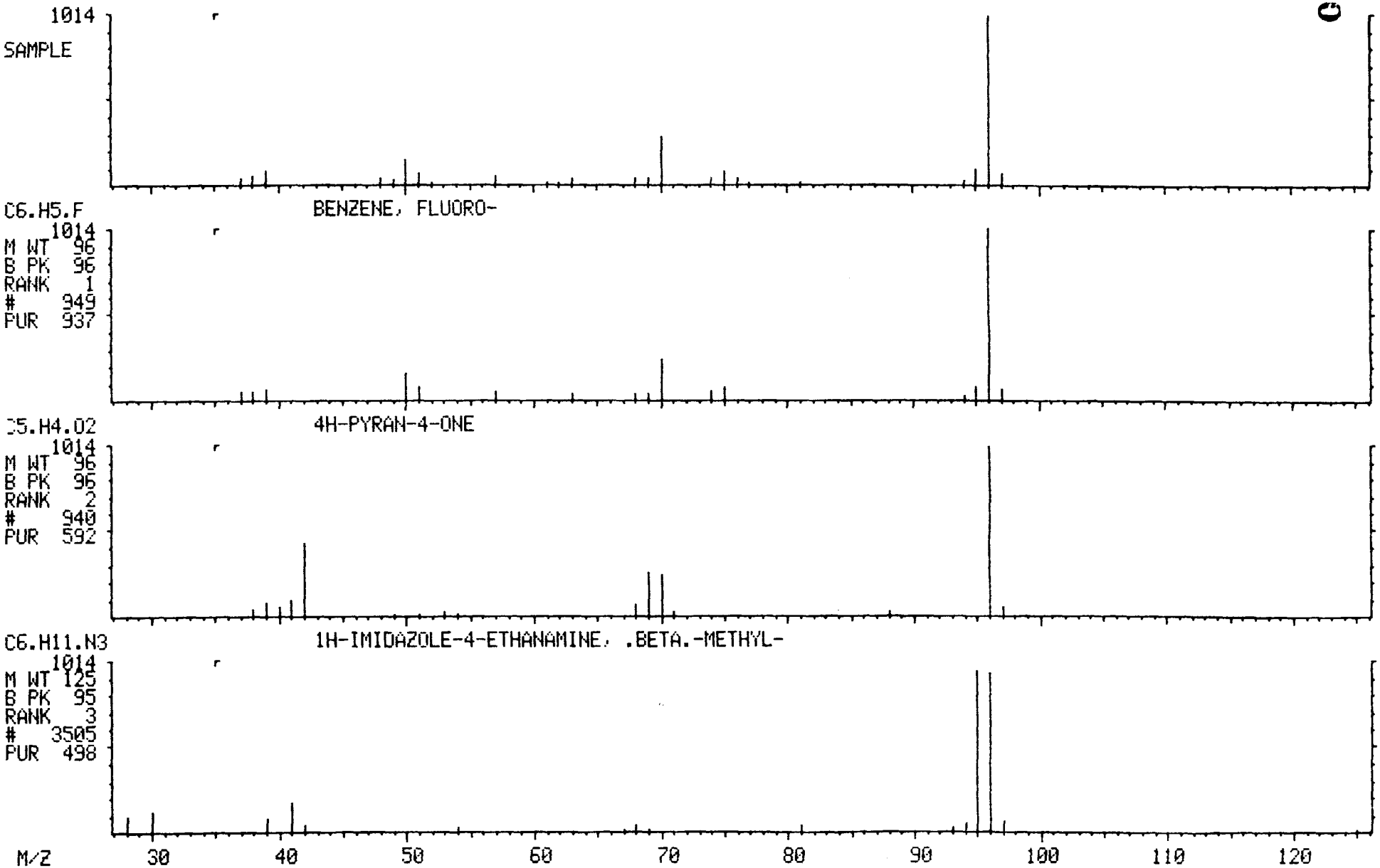
BASE M/Z: 96
RIC: 10960.



LIBRARY SEARCH
04/02/91 14:50:00 + 5:22
SAMPLE: 90895, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK06 # 403
CALI: A0402BK06 # 3

BASE M/Z: 96
RIC: 10479.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G203

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190896

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0402BK07

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G203

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190896

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0402BK07

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/02/91

Column (pack/cap) WIDE Dilution Factor: 1.0

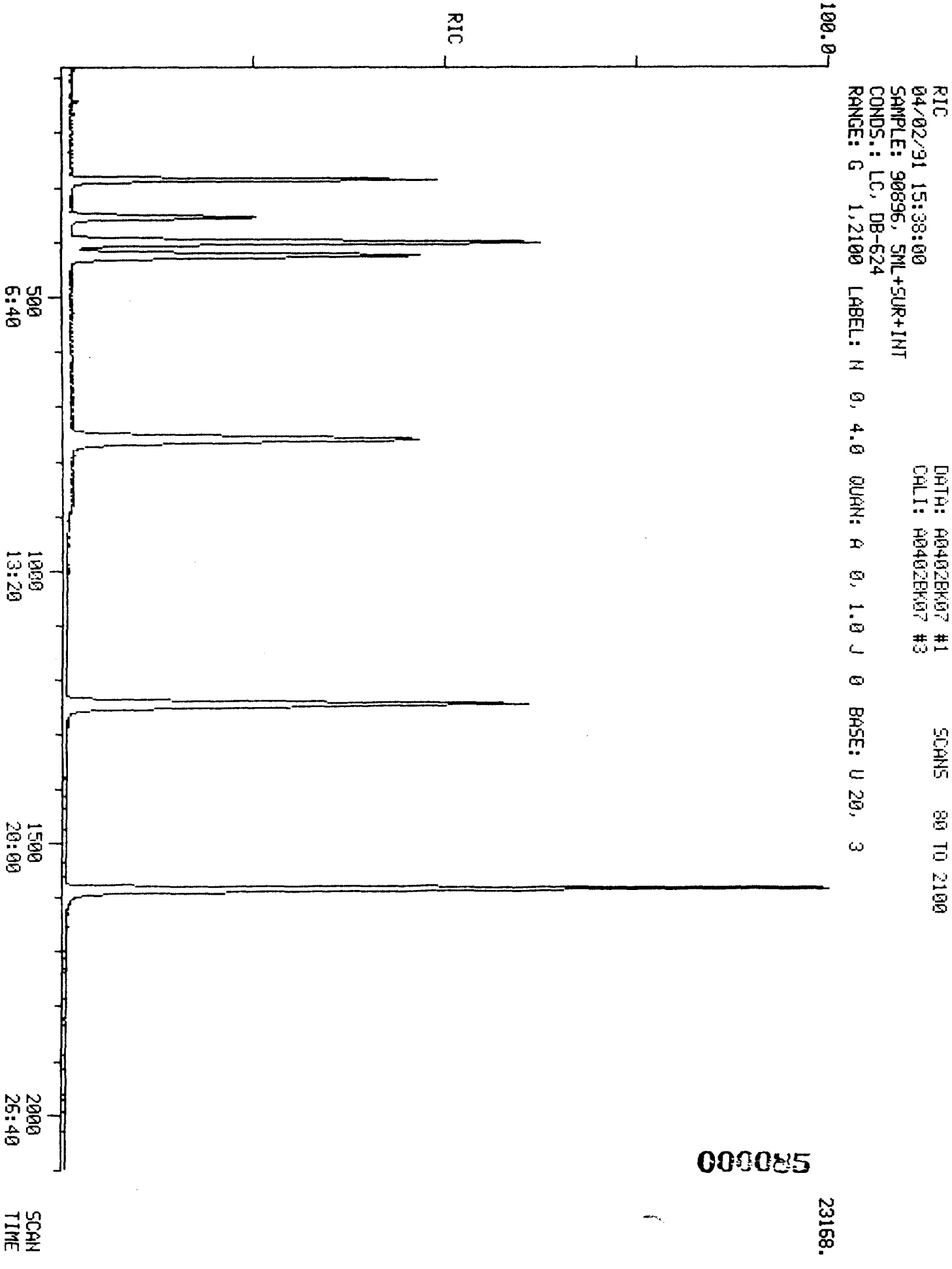
Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9 2 2 2 6 0 0 0 7 6 1

TCA FINISHED, 8 FOUND
FINISHED AT: 4/02/91 17:32:39

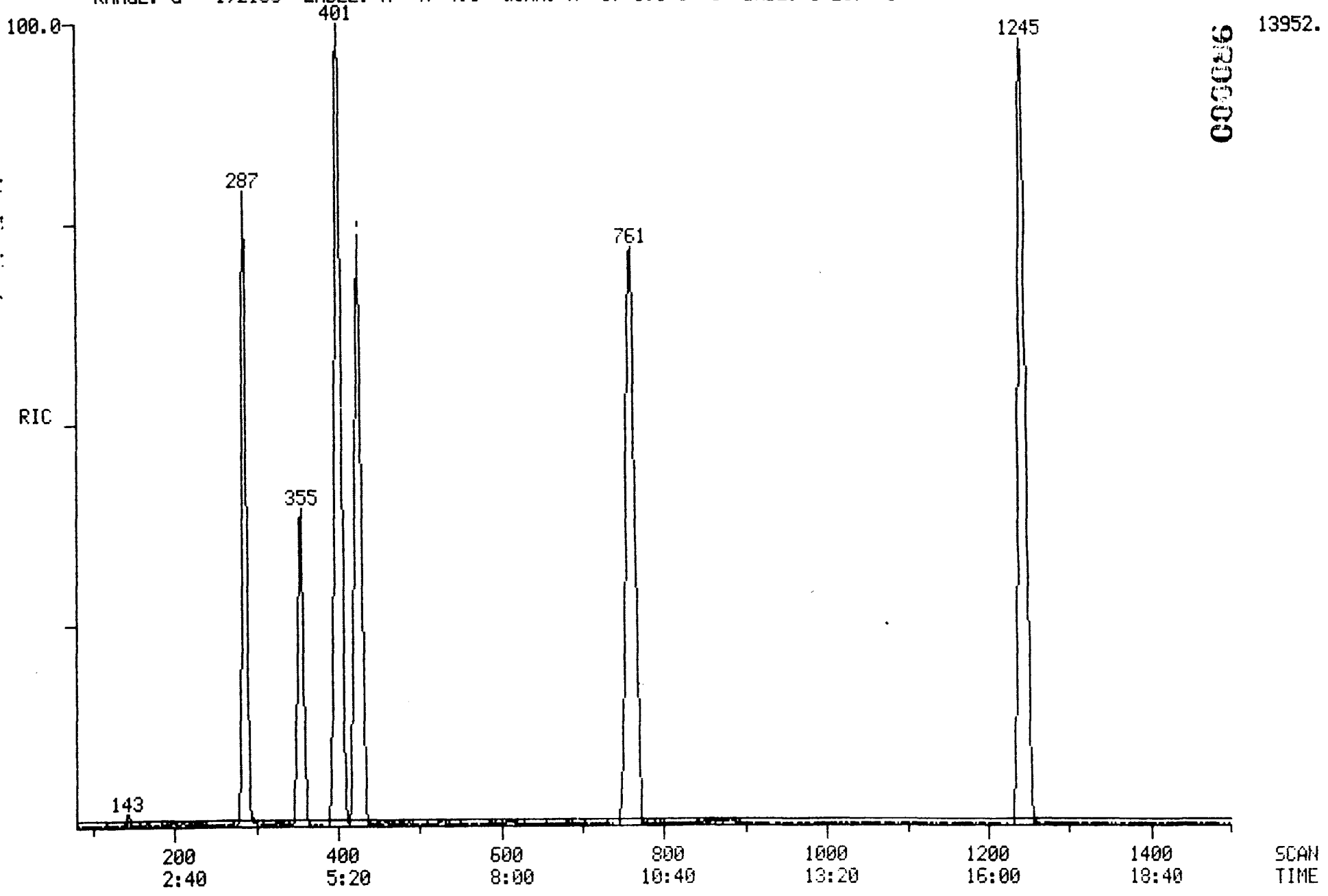


G203

000085

RIC
04/02/91 15:38:00
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

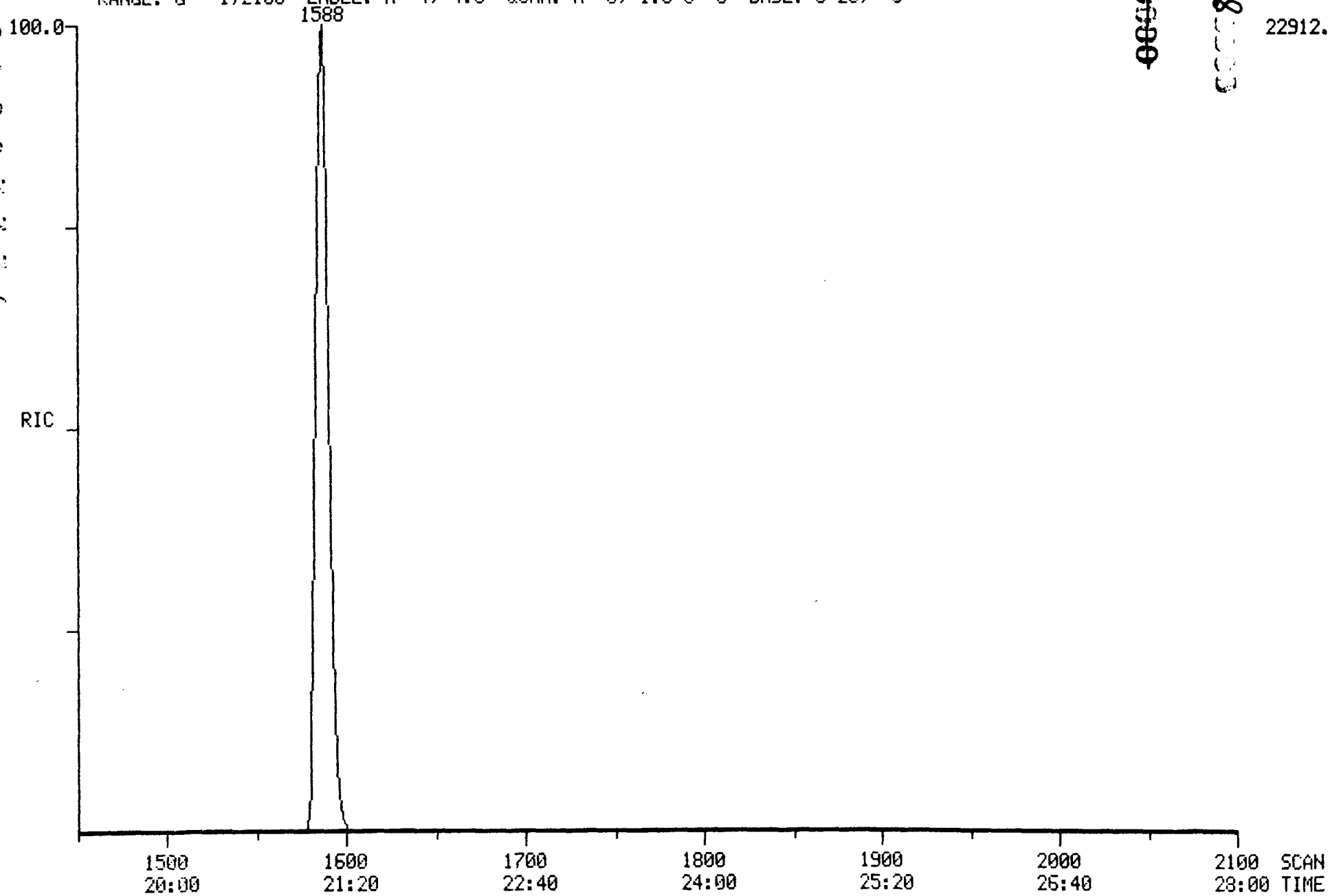
DATA: A0402BK07 #1 SCANS 80 TO 1500
CALI: A0402BK07 #3



000086

RIC
04/02/91 15:38:00
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0402BK07 #1 SCANS 1450 TO 2100
CALI: A0402BK07 #3



4/2/91 15:38:47 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 15:38:00 + 0:02
Sample: 90896, 5ML+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:A0402BK07
Free sectors: 4093
Instrument: 5100
Analyst: BK

Acquiring
Scan: 2 of 2100
Weight: 0.000
Acct. No:

*** GC descriptor: LC ***

GC temperature: 32 DegC
Elapsed time : 0: 7 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	32- 32	-	5.0	5.0
2	32- 52	2.0	10.0	15.0
3	52-130	5.0	15.5	30.5
4	130-130	-	0.5	31.0

Valve times (minutes)

	Open	Close
Sweep/Split	31.0	0.0
Divert	31.0	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 450 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10 Samp int (ms): 0.175 Peak width: 1000.
Frag S/P: 10 Actual: 10 Samp int (ms): 0.175 Inten/ion: 2

Min peak width: 3 Min frag width %: 80 Min area: 50
ADC threshold: 2 Baseline: 0

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	130.00	128.00
Resolution (low)	130.00	128.00
Ion energy	6.67	-4.00
Ion programming	4.08	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	2.00	not used

000088

Electron multiplier voltage: -1659.
Electrometer Range: 10^-7

4/2/91 16:06:49
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	4.1	1680.0	0.2	15758.	8.	9.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 17:28:07
DATA FILE: A0402BK07
REFERENCE: CLWTAB11
NAME LIST: CLWDRIVER INITIALIZATION OPTION: 10 PROCESSING OPTION: 3
REPORT: CLWRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	2	247	CLWRT1/CLWTC1
1	1	1	0	12	2	1	0	CLWRT2/CLWTC2
1	1	1	0	17	3	2	68	CLWRT3/CLWTC3

44 COMPOUNDS PROCESSED, 8 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CW	1	287	287	287	.	1	974	.	128	287	.	1
2	CW	2	-88	93	.	.	.	.	.	50	.	.	.
3	CW	3	-97	102	.	.	.	.	.	94	.	.	.
4	CW	4	-89	94	.	.	.	.	.	62	.	.	.
5	CW	5	-98	103	.	.	.	.	.	64	.	.	.
6	CW	6	-162	165	167	2	1	890	.	84	167	.	1
7	CW	7	142	146	144	-2	2	986	.	43	144	.	1
8	CW	8	-146	150	.	.	.	.	.	76	.	.	.
9	CW	9	-134	138	.	.	.	.	.	96	.	.	.
10	CW	10	-212	214	.	.	.	.	.	63	.	.	.
11	CW	12	-301	301	.	.	.	.	.	83	.	.	.
12	CW	13	-312	312	.	.	.	.	.	97	.	.	.
13	CW	14	-104	108	.	.	.	.	.	101	.	.	.
14	CW	15	-182	185	.	.	.	.	.	96	.	.	.
15	CW	16	-265	266	.	.	.	.	.	96	.	.	.
16	CW	17	427	426	426	.	1	993	.	114	426	.	1
17	CW	18	-365	364	.	.	.	.	.	62	.	.	.
18	CW	19	-273	272	.	.	.	.	.	72	.	.	.
19	CW	20	-332	331	.	.	.	.	.	117	.	.	.
20	CW	21	-221	220	.	.	.	.	.	43	224	.	2
21	CW	22	-580	579	.	.	.	.	.	83	.	.	.
22	CW	23	-504	503	.	.	.	.	.	63	.	.	.
23	CW	24	-884	883	.	.	.	.	.	75	.	.	.
24	CW	25	-462	461	.	.	.	.	.	130	.	.	.
25	CW	27	-359	358	.	.	.	.	.	78	.	.	.
26	CW	28	-680	679	.	.	.	.	.	106	.	.	.
27	CW	29	356	355	355	.	1	983	.	65	355	.	1
28	CW	30	1245	1245	1245	.	1	994	.	117	1245	.	1
29	CW	26	-1067	1066	.	.	.	.	.	129	.	.	.
30	CW	31	-945	944	.	.	.	.	.	97	.	.	.
31	CW	32	-702	700	.	.	.	.	.	75	.	.	.
32	CW	33	-1071	1070	.	.	.	.	.	43	1075	.	3
33	CW	34	-775	773	.	.	.	.	.	43	777	.	1
34	CW	35	-948	947	.	.	.	.	.	164	.	.	.
35	CW	36	-1662	1663	.	.	.	.	.	83	.	.	.
36	CW	37	-783	781	.	.	.	.	.	91	.	.	.
37	CW	38	-1255	1254	.	.	.	.	.	112	.	.	.
38	CW	39	-1305	1305	.	.	.	.	.	106	.	.	.
39	CW	40	-1461	1461	.	.	.	.	.	104	.	.	.
40	CW	41	-1344	1344	.	.	.	.	.	106	.	.	.
41	CW	42	-1449	1449	.	.	.	.	.	106	.	.	.
42	CW	43	-1499	1499	.	.	.	.	.	173	.	.	.
43	CW	44	1588	1588	1588	.	1	987	.	95	1588	.	1
44	CW	45	763	761	761	.	2	997	.	98	760	-1	1

000090

Quantitation Report File: A0402BK07

Data: A0402BK07.TI
04/02/91 15:38:00
Sample: 90896, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	287	3:50	1	1.000	A BB	7748.	50.000 UG/L	10.83
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	167	2:14	1	0.582	A BB	79.	~~0.340 UG/L~~	0.07
7	43	144	1:55	1	0.502	A BB	708.	9.009 UG/L	1.95
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	114	426	5:41	16	1.000	A BB	34526.	50.000 UG/L	10.83
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	43	224	2:59	16	0.526	A*BV	164.	~~0.419 UG/L~~	0.09
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	65	355	4:44	16	0.833	A BB	13086.	100.203 %	21.71
28	117	1245	16:36	28	1.000	A BB	38251.	50.000 UG/L	10.83
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	43	1075	14:20	28	0.863	A*BB	93.	~~0.384 UG~~/L	0.08
33	43	777	10:22	28	0.624	A BV	97.	~~0.317~~ UG/L	0.07
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	95	1588	21:10	28	1.276	A BB	39915.	99.800 %	21.62
44	98	760	10:08	28	0.610	A BB	40645.	101.387 %	21.96

Quantitation Report File: A0402BK07A

Data: A0402BK07.TI
04/02/91 15:38:00
Sample: 90896, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	401	5:21	1	1.000	A BB	126978.	66.200	*100.

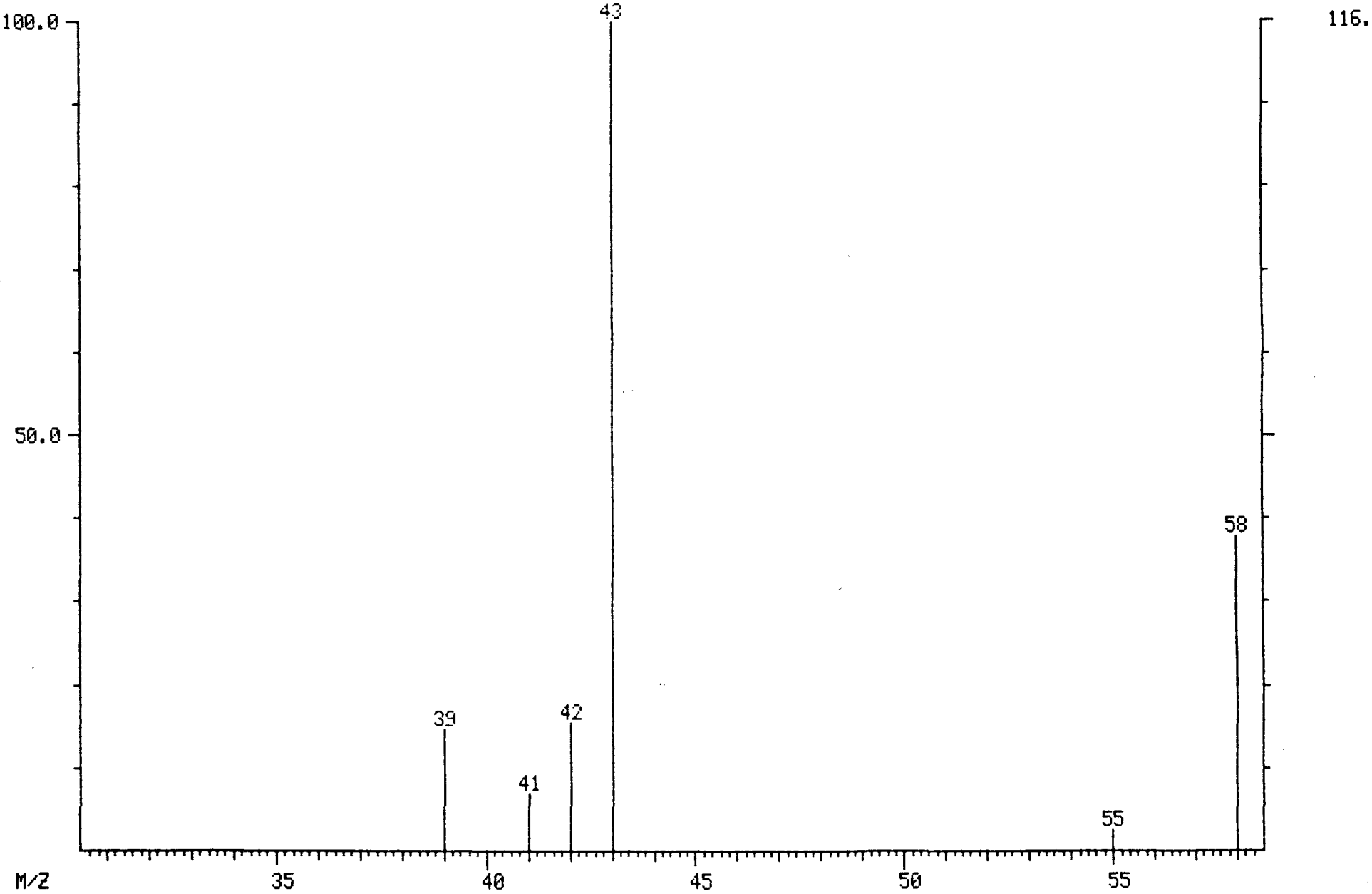
TARGET COMPOUND SPECTA

MASS SPECTRUM
04/02/91 15:38:00 + 1:55
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 37 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 #144
CALI: A0402BK07 #3

BASE M/Z: 43
RIC: 206.

000095

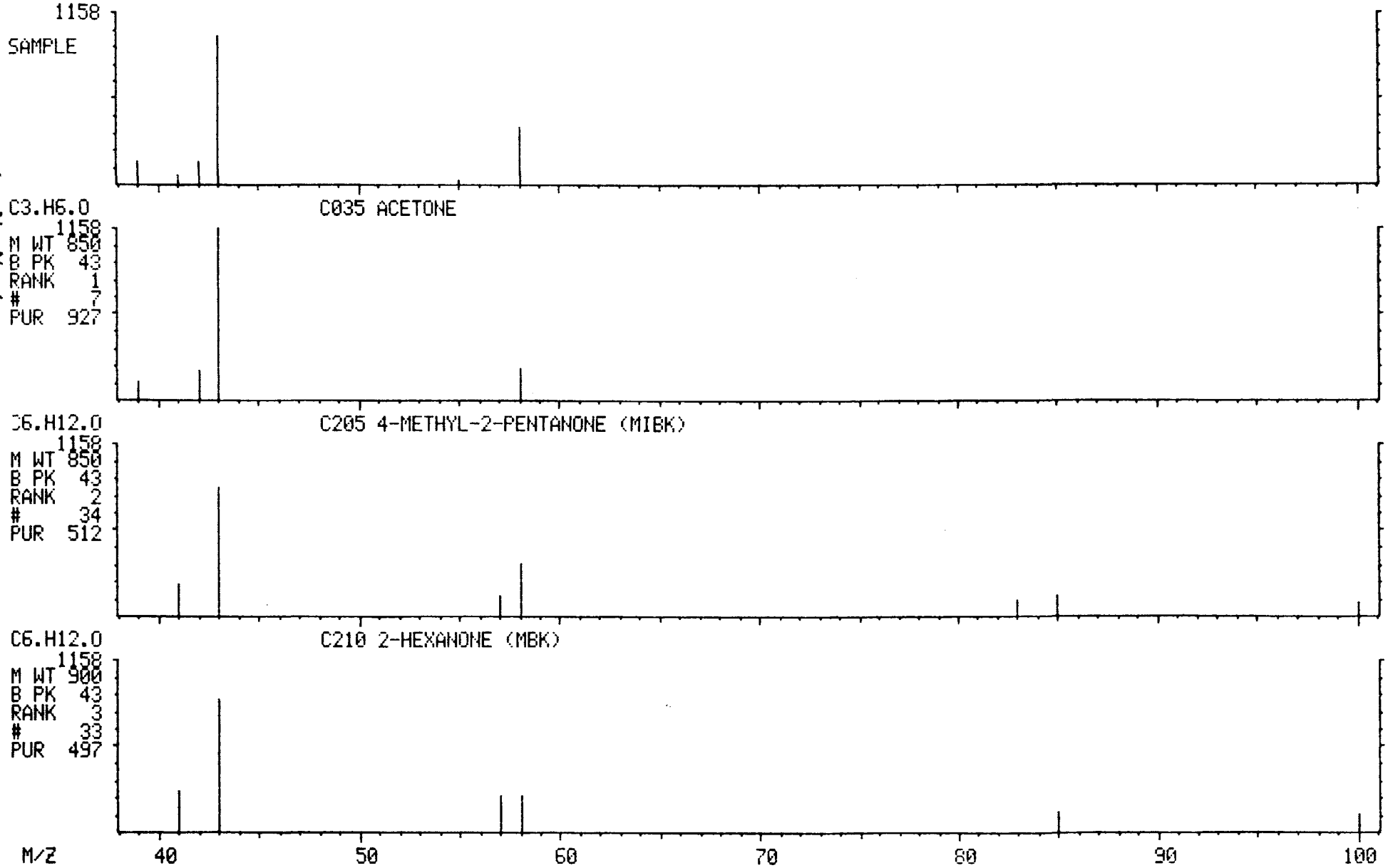


LIBRARY SEARCH
04/02/91 15:38:00 + 1:55
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 # 144
CALI: A0402BK07 # 3

BASE M/Z: 43
RIC: 205.

000096

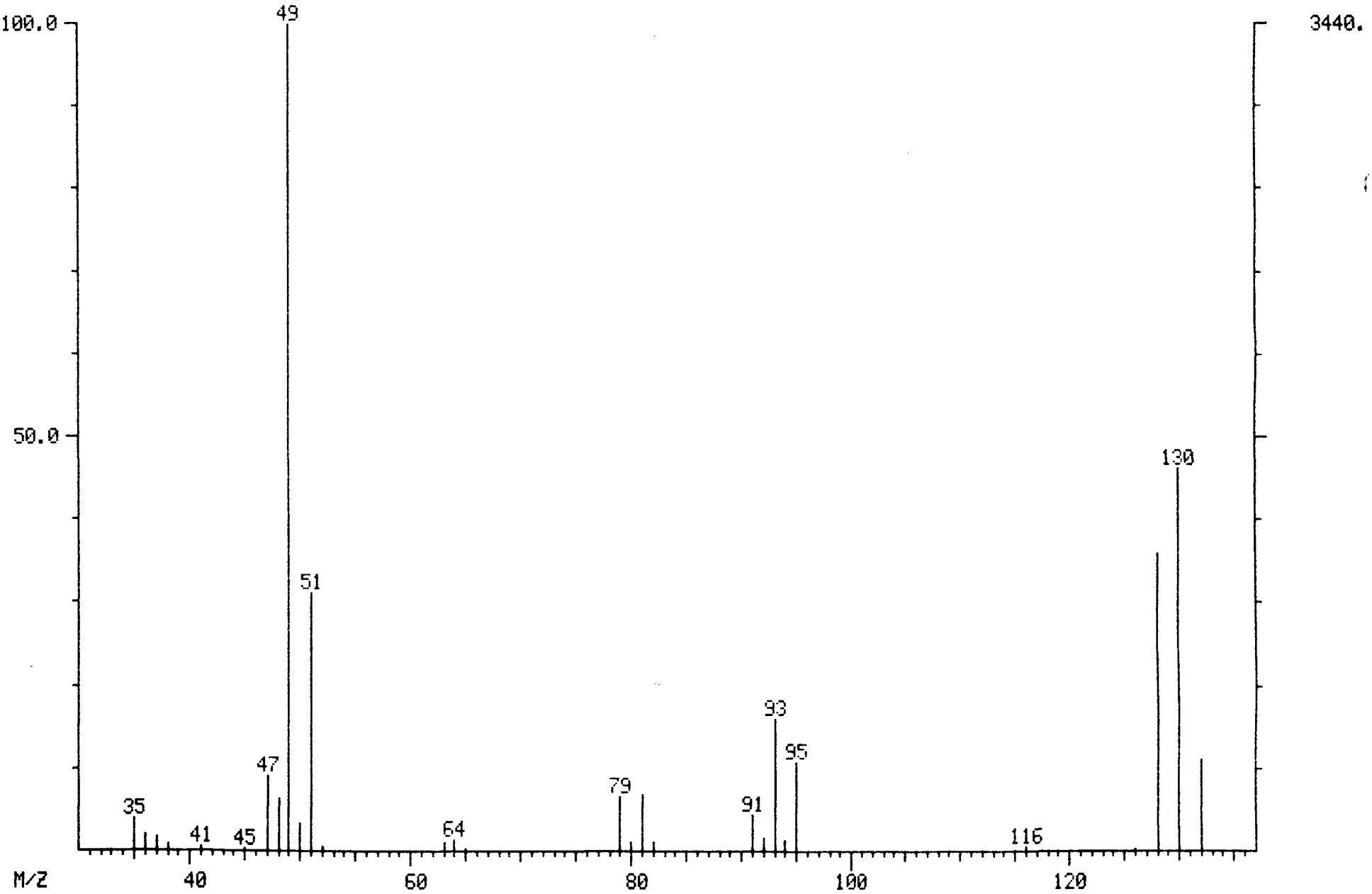


MASS SPECTRUM
04/02/91 15:38:00 + 3:50
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 #287
CALI: A0402BK07 #3

BASE M/Z: 49
RIC: 10544.

000097

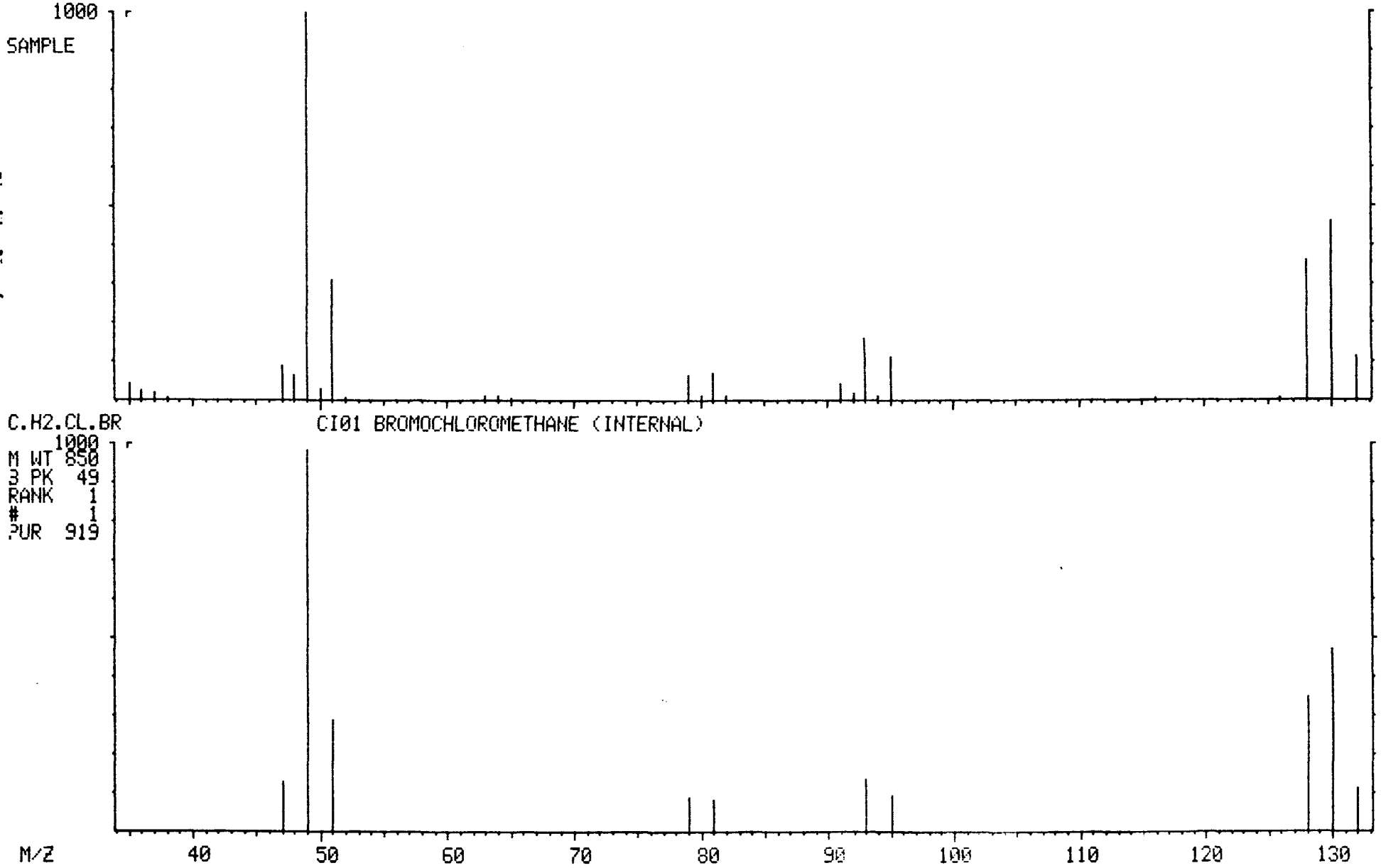


LIBRARY SEARCH
04/02/91 15:38:00 + 3:50
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 # 287
CALI: A0402BK07 # 3

BASE M/Z: 49
RIC: 10511.

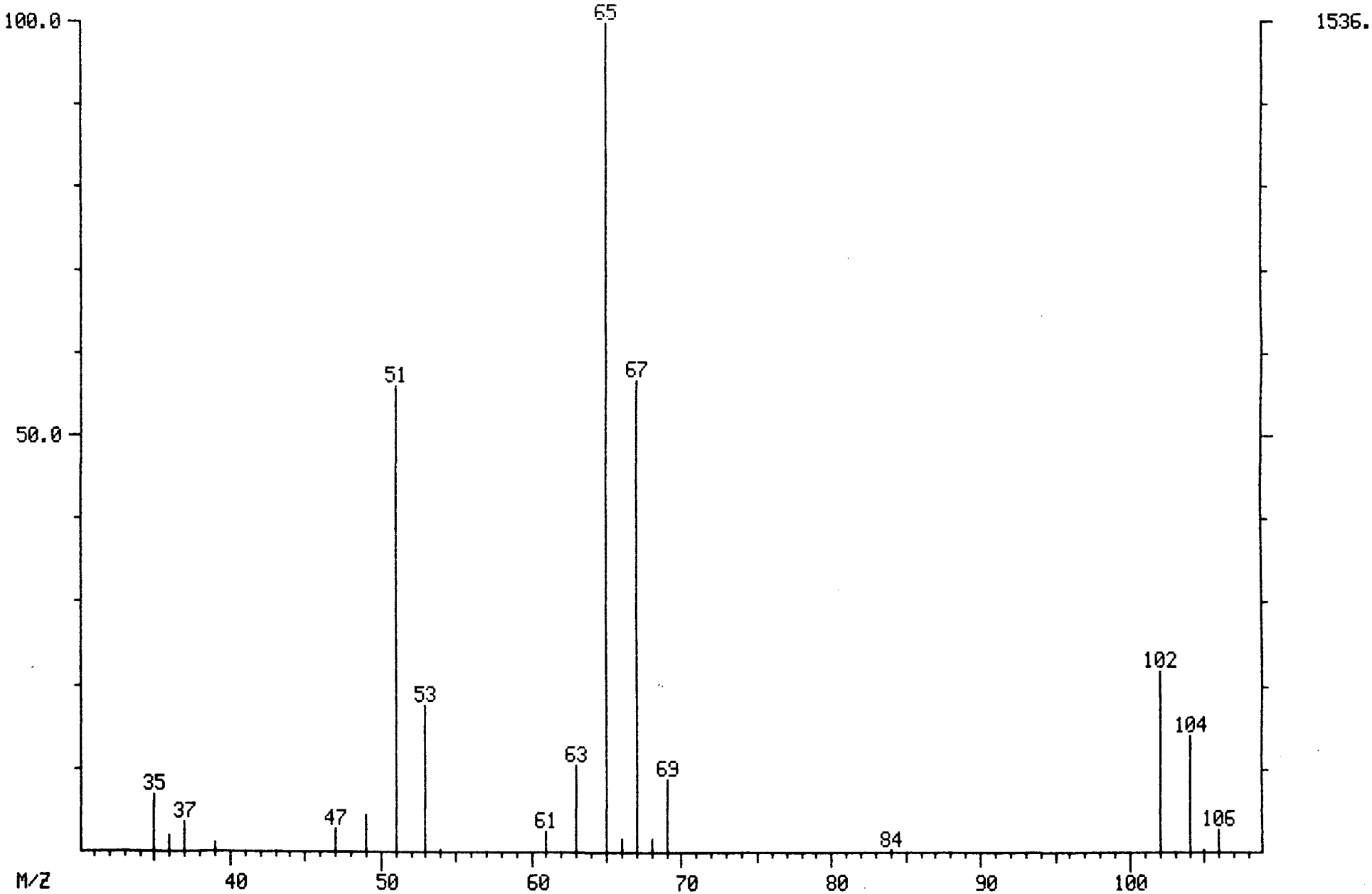
000098



MASS SPECTRUM
04/02/91 15:38:00 + 4:44
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 #355
CALI: A0402BK07 #3

BASE M/Z: 65
RIC: 4856.



9222600077

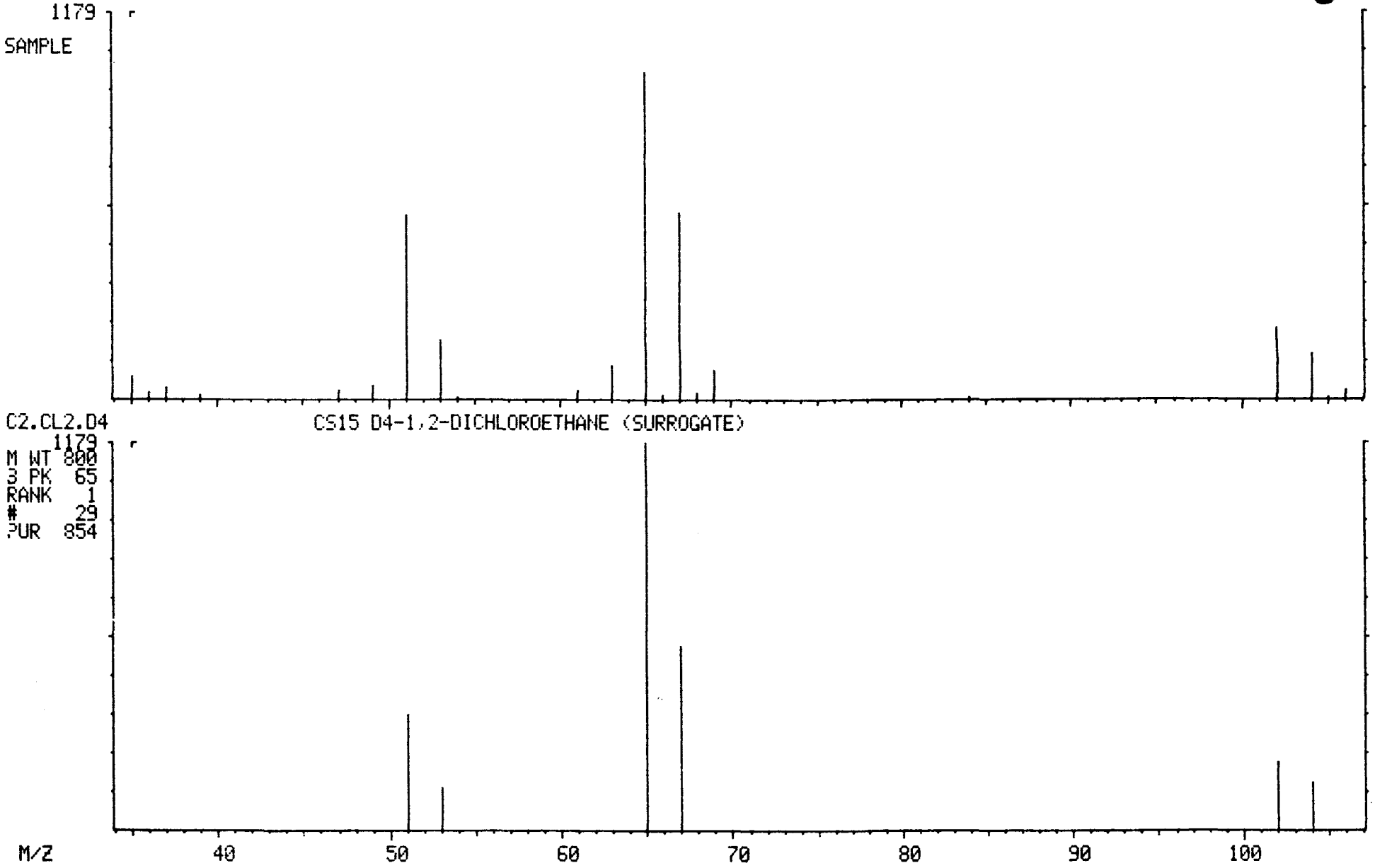
000099

LIBRARY SEARCH
04/02/91 15:38:00 + 4:44
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 # 355
CALI: A0402BK07 # 3

BASE M/Z: 65
RIC: 4855.

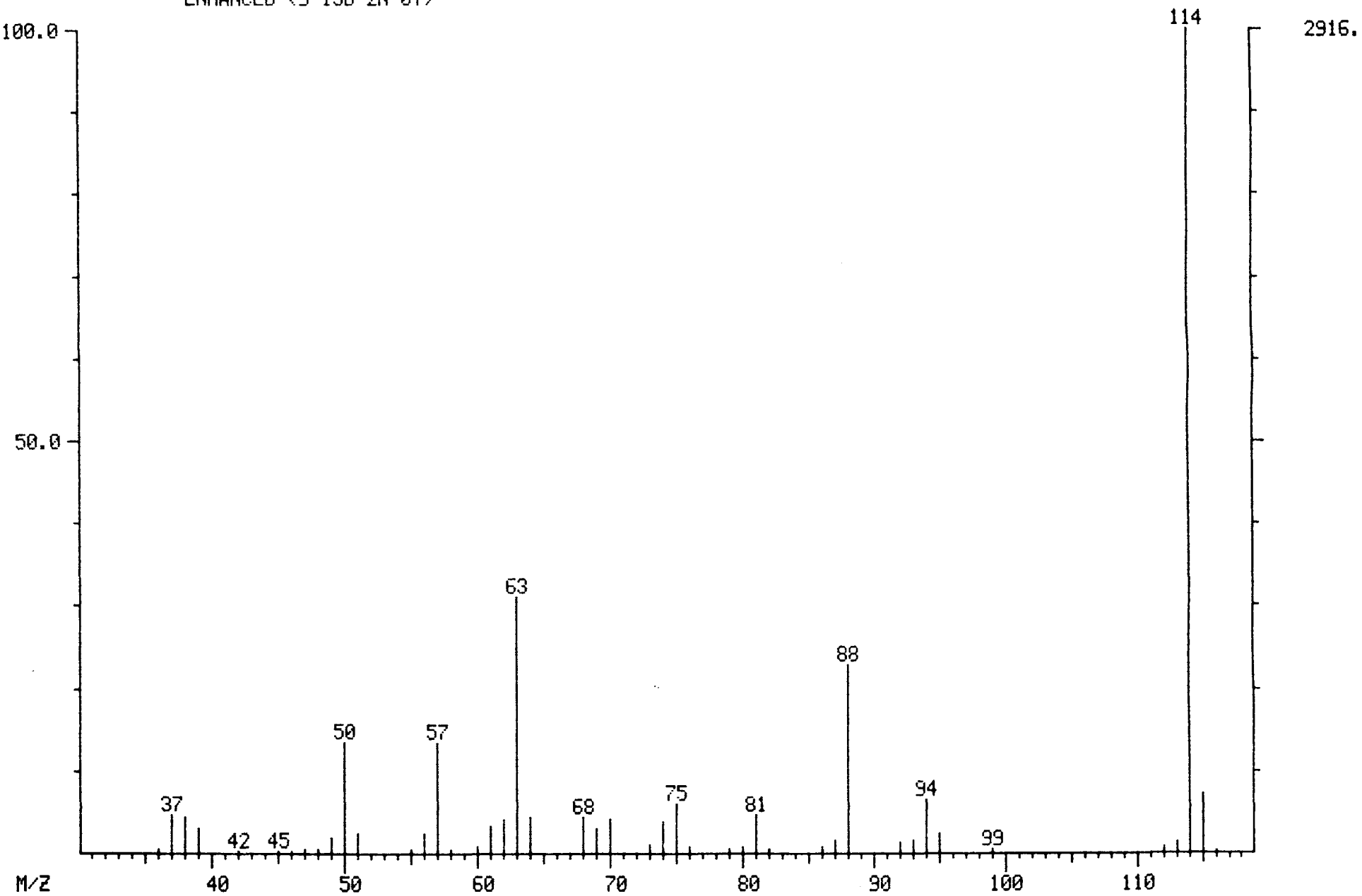
000100



MASS SPECTRUM
04/02/91 15:38:00 + 5:41
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 #426
CALI: A0402BK07 #3

BASE M/Z: 114
RIC: 7928.

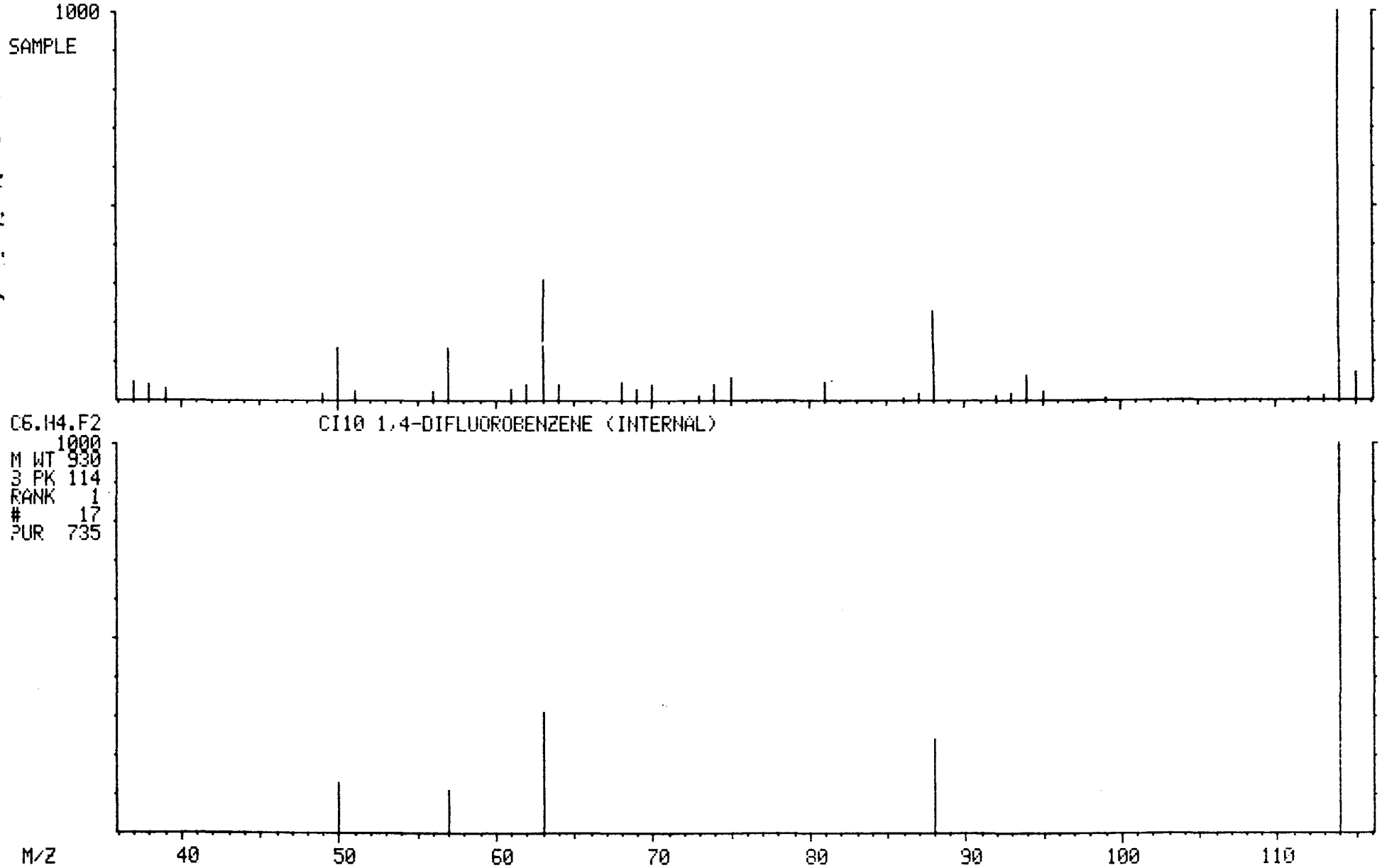


LIBRARY SEARCH
04/02/91 15:38:00 + 5:41
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 # 426
CALI: A0402BK07 # 3

BASE M/Z: 114
RIC: 7695.

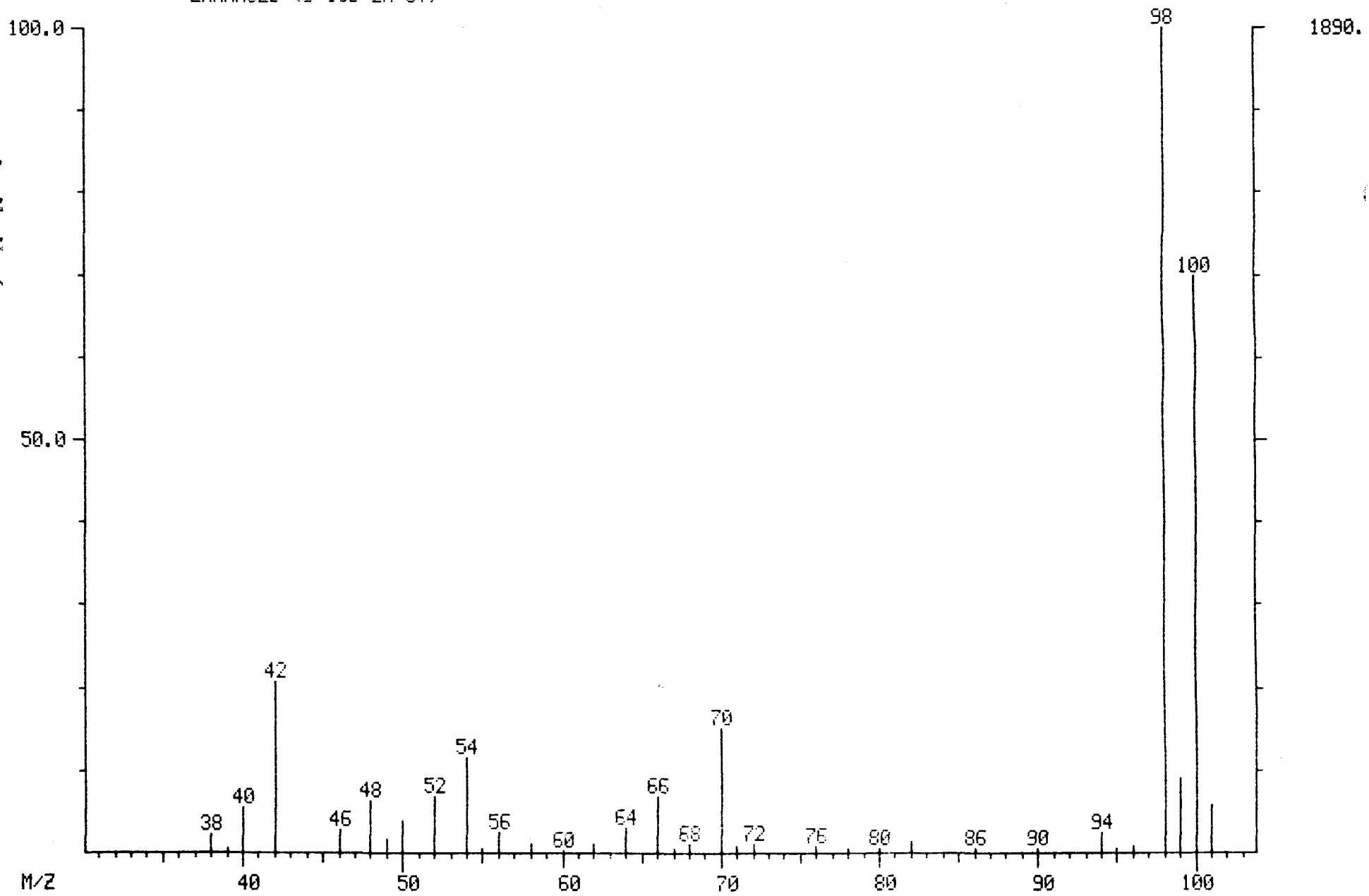
000102



MASS SPECTRUM
04/02/91 15:38:00 + 10:08
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 #760
CALI: A0402BK07 #3

BASE M/Z: 98
RIC: 5496.



9 2 2 2 6 0 0 0 7 7 9

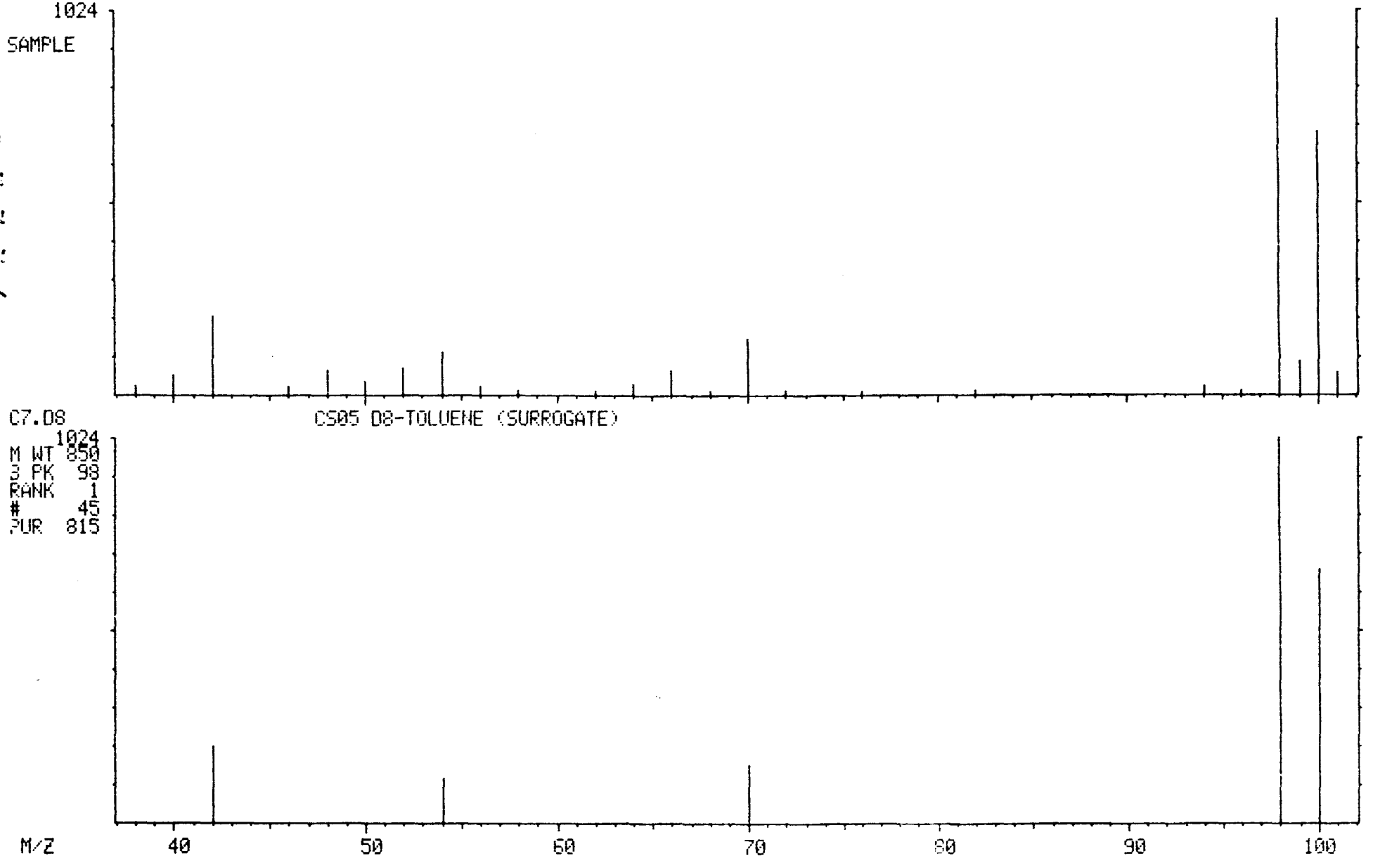
C0010

LIBRARY SEARCH
04/02/91 15:38:00 + 10:08
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 # 760
CALI: A0402BK07 # 3

BASE M/Z: 98
RIC: 5359.

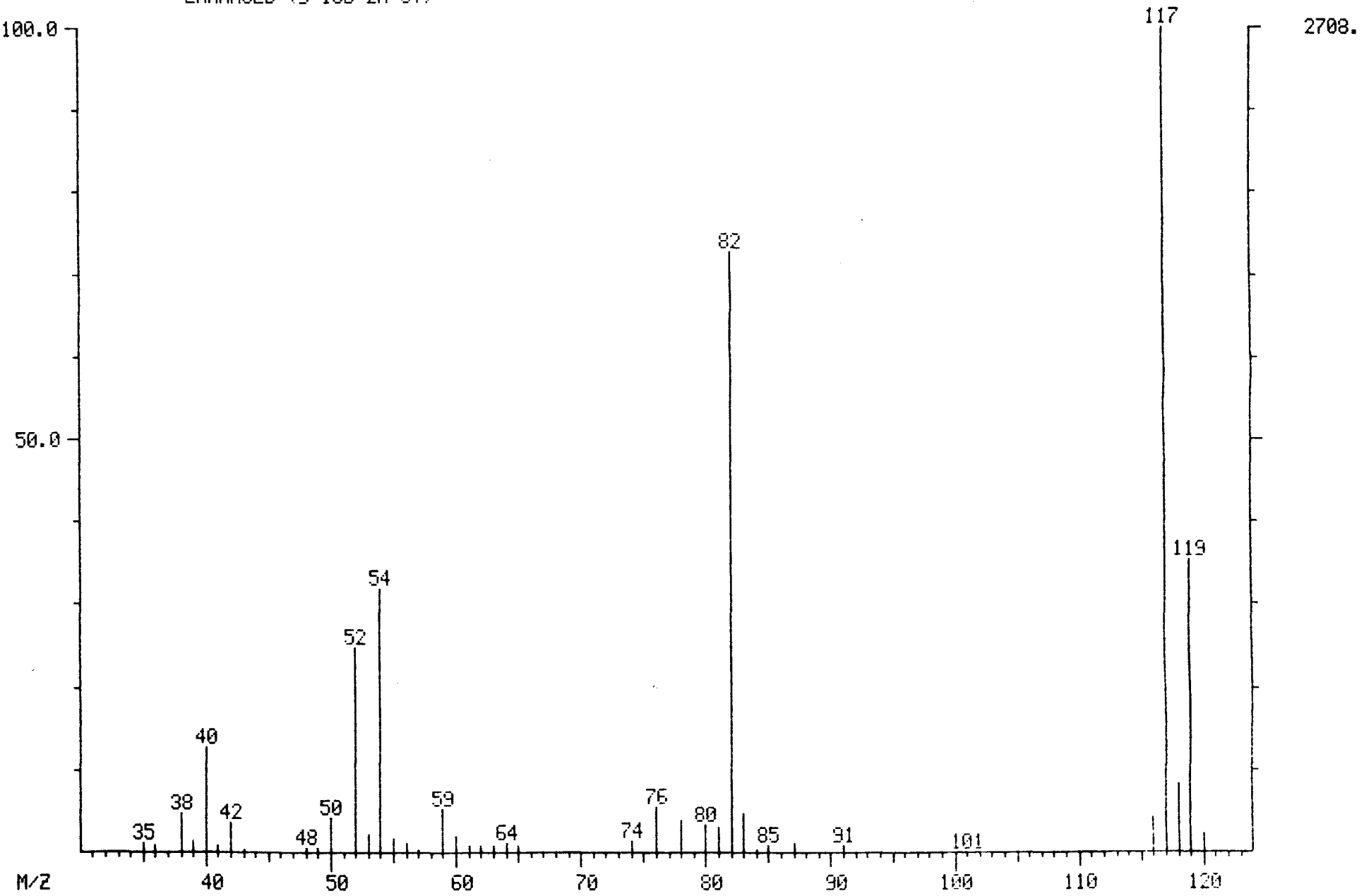
000104



MASS SPECTRUM
04/02/91 15:38:00 + 16:36
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 60 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 #1245
CALI: A0402BK07 #3

BASE M/Z: 117
RIC: 9568.



9222600731

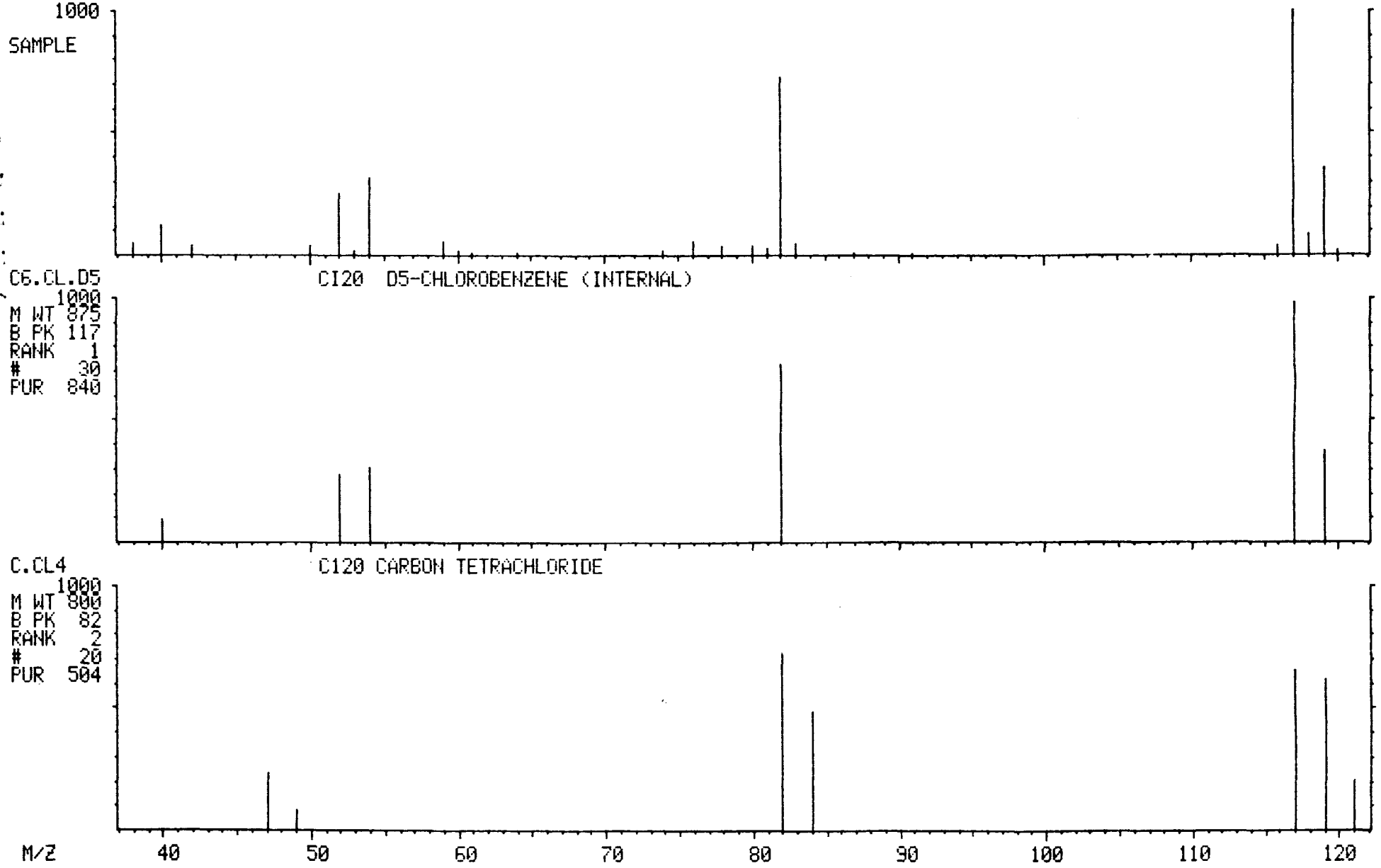
009105

LIBRARY SEARCH
04/02/91 15:38:00 + 16:36
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 #1245
CALI: A0402BK07 # 3

BASE M/Z: 117
RIC: 9231.

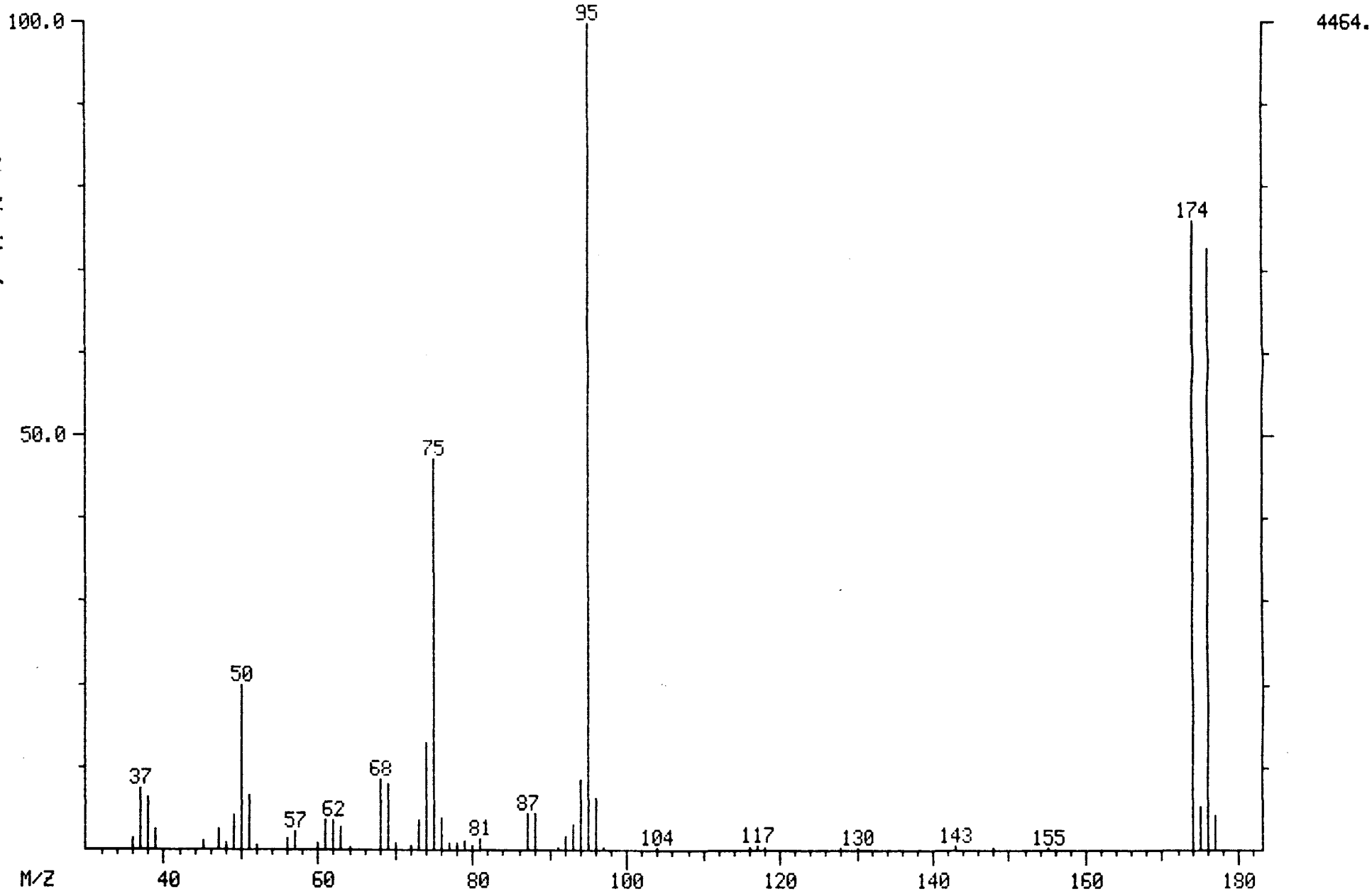
000106



MASS SPECTRUM
04/02/91 15:38:00 + 21:10
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 #1588
CALI: A0402BK07 #3

BASE M/Z: 95
RIC: 20032.



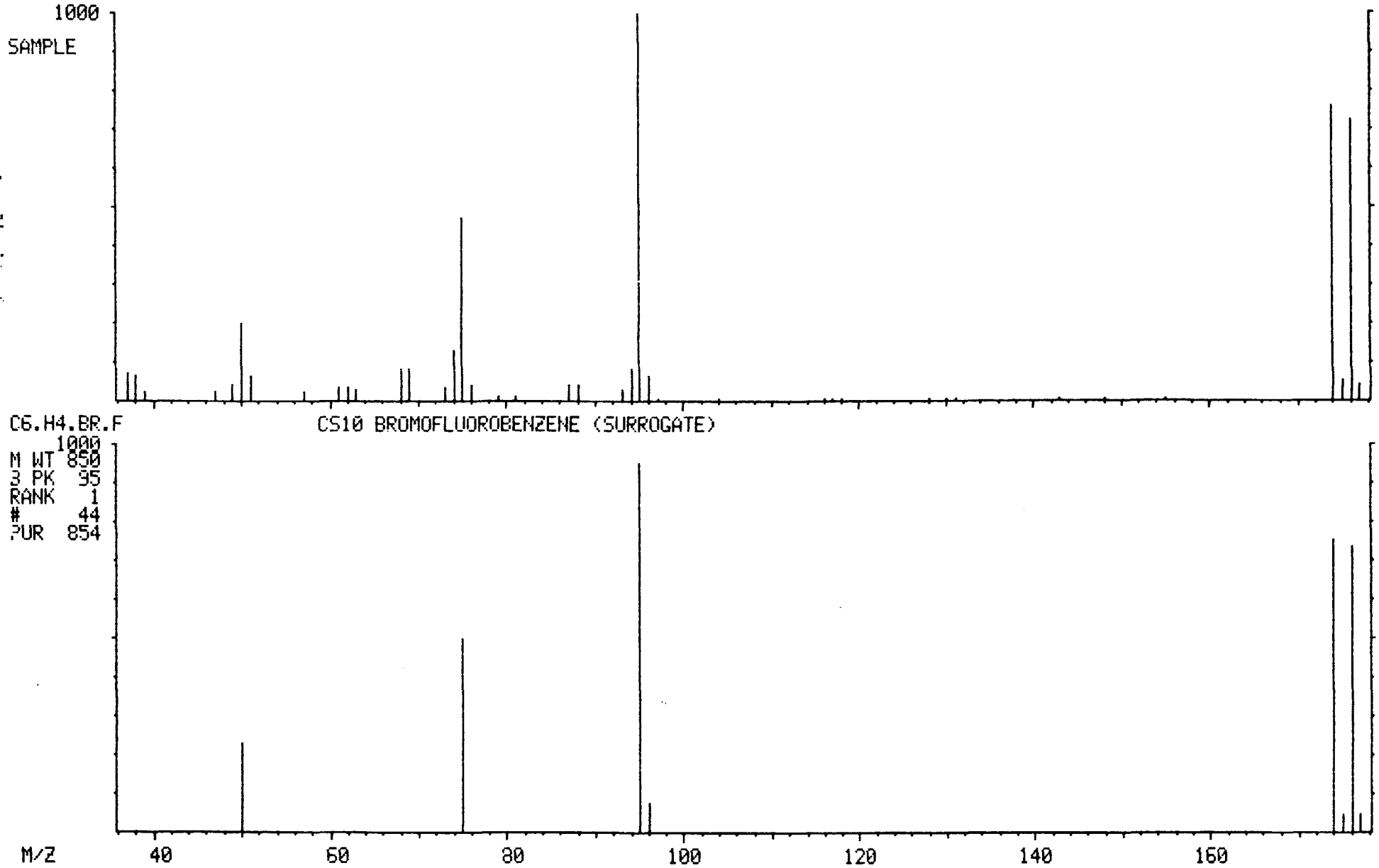
000107

LIBRARY SEARCH
04/02/91 15:38:00 + 21:10
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 #1588
CALI: A0402BK07 # 3

BASE M/Z: 95
RIC: 19519.

000108



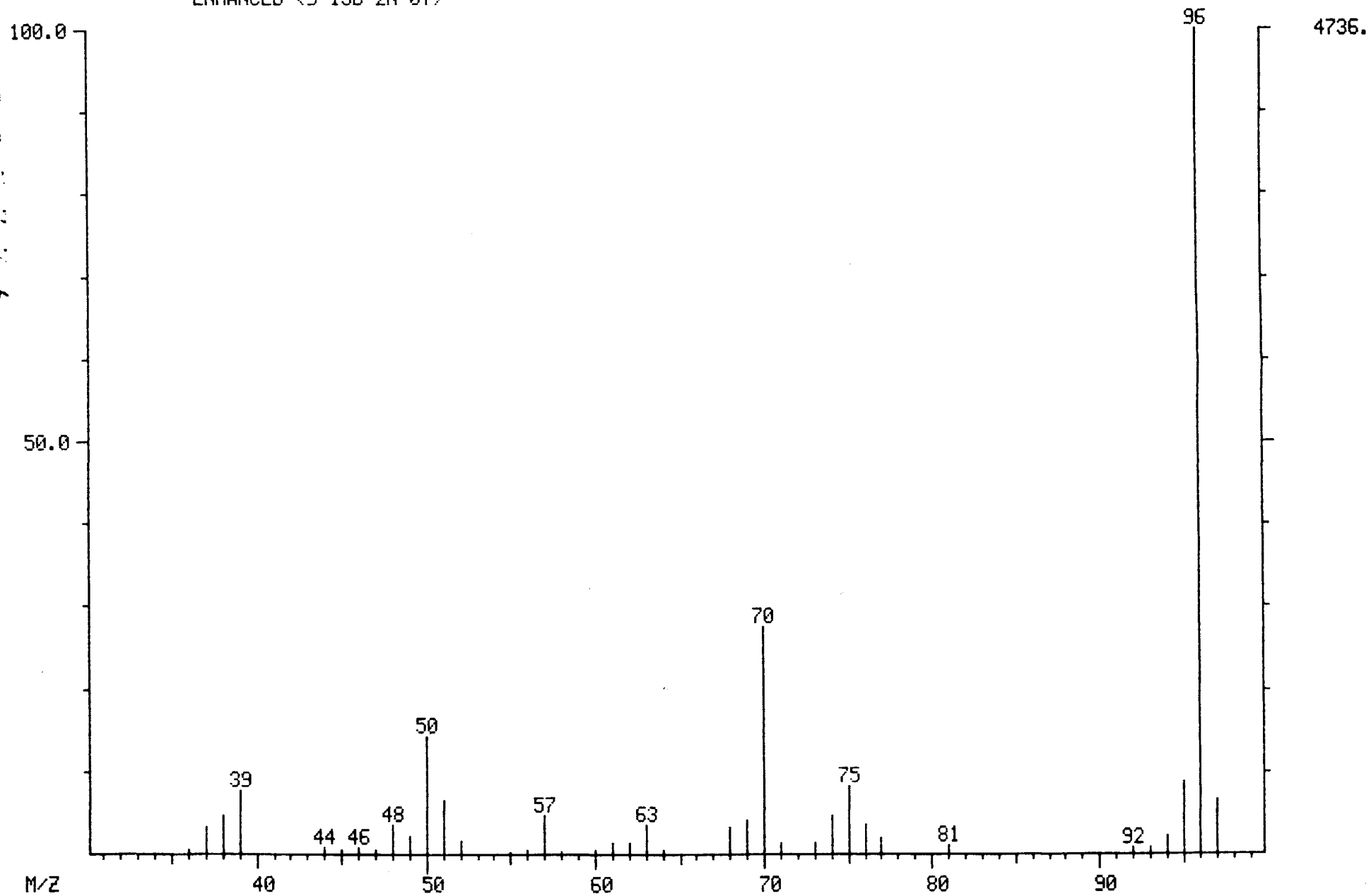
NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/02/91 15:38:00 + 5:21
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 #401
CALI: A0402BK07 #3

BASE M/Z: 96
RIC: 11280.

000110

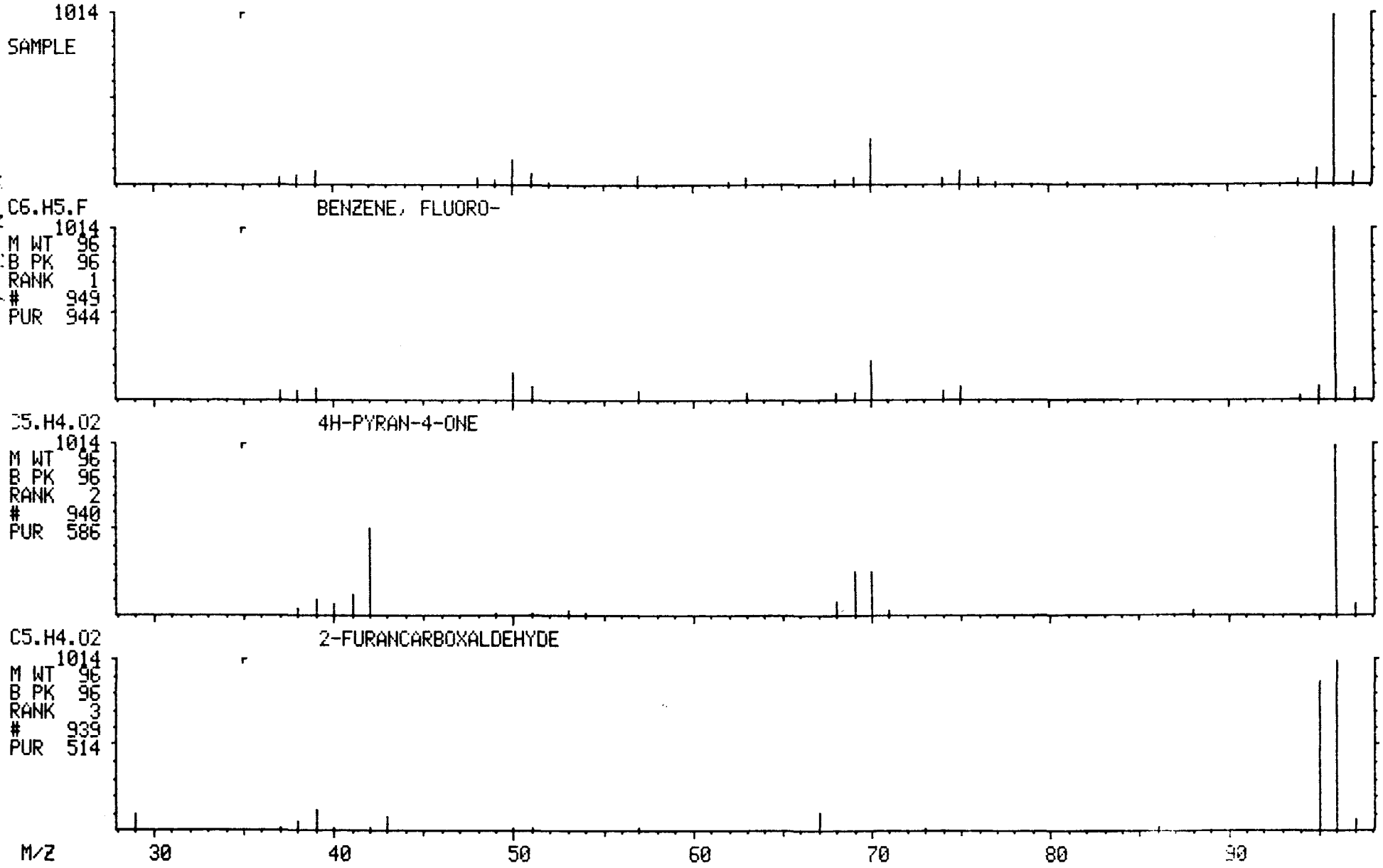


LIBRARY SEARCH
04/02/91 15:38:00 + 5:21
SAMPLE: 90896, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK07 # 401
CALI: A0402BK07 # 3

BASE M/Z: 96
RIC: 10735.

000111



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G204

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190897

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0403BK04

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/03/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G204

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190897

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0403BK04

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/03/91

Column (pack/cap) WIDE Dilution Factor: 1.0

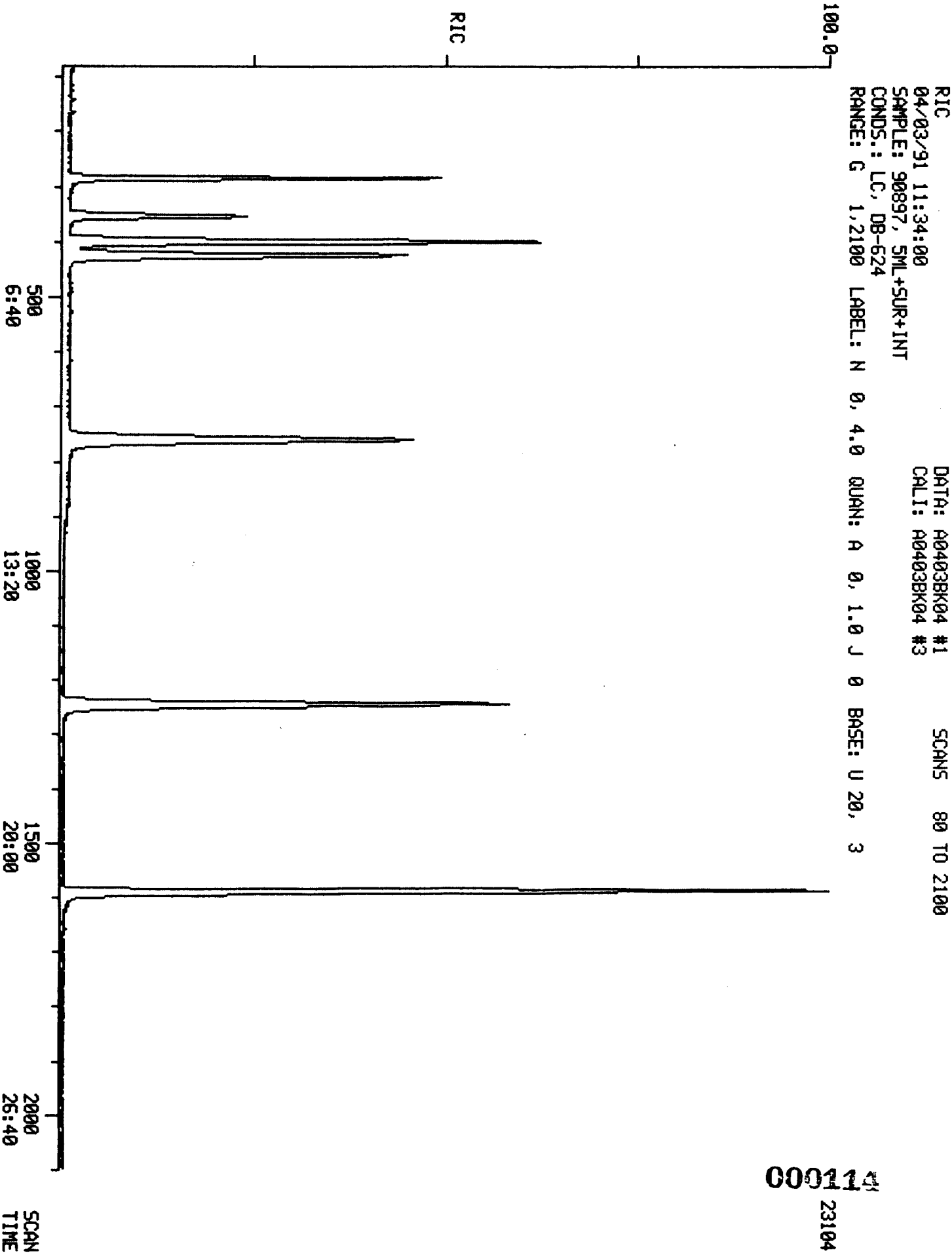
Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC 1/87 Rev.

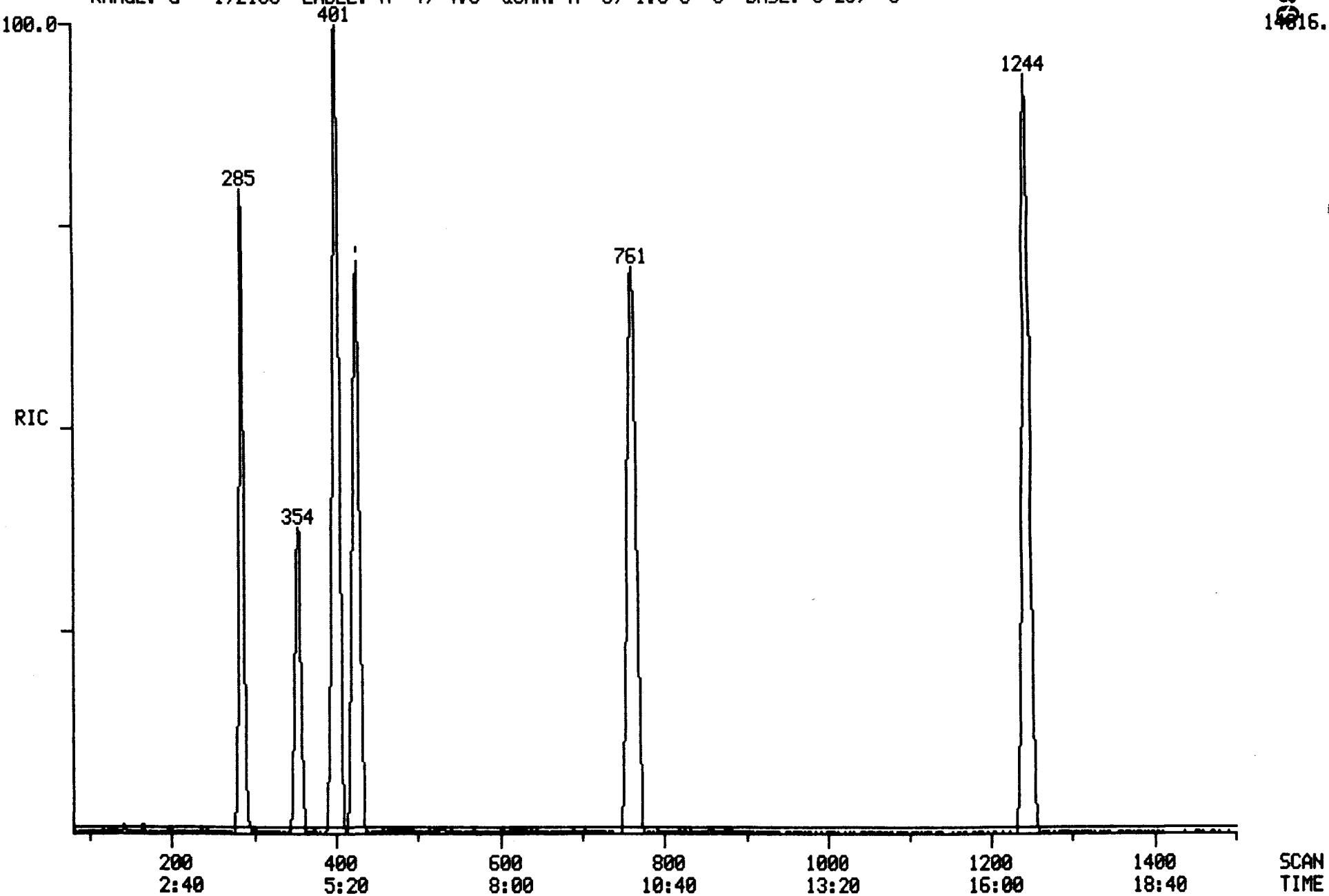
TCA FINISHED, 8 FOUND
FINISHED AT: 4/03/91 15:44:06



23104

RIC
04/03/91 11:34:00
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0403BK04 #1 SCANS 80 TO 1500
CALI: A0403BK04 #3

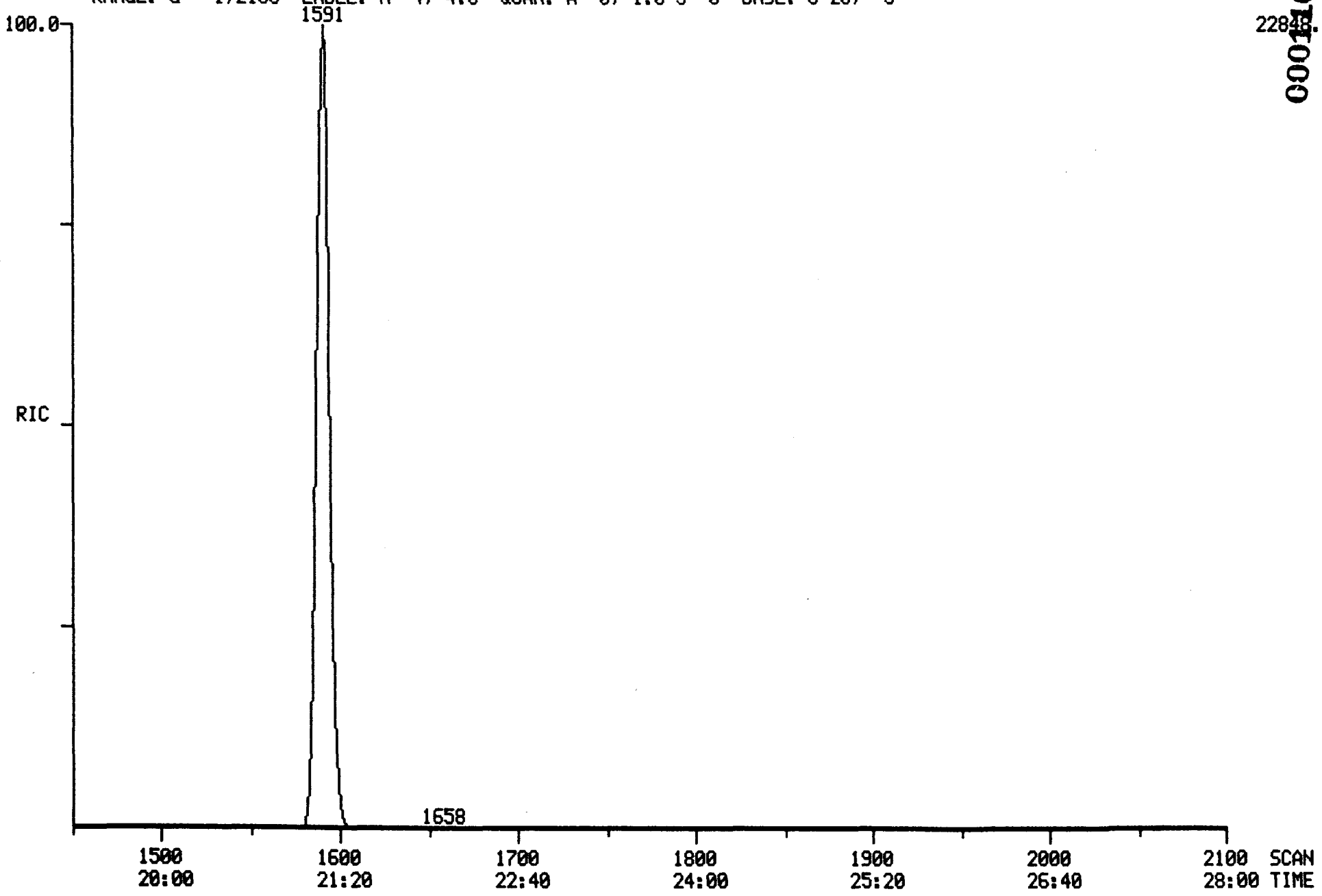


14016.

000115

RIC
04/03/91 11:34:00
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0403BK04 #1 SCANS 1450 TO 2100
CALI: A0403BK04 #3



000116

4/3/91 11:34:55 SCAN 1 OF 2100
Acquisition started

Acquire
04/03/91 11:34:00 + 0:02
Sample: 90897, 5ML+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:A0403BK04
Free sectors: 13231
Instrument: 5100
Analyst: BK

Acquiring
Scan: 2 of 2100
Weight: 0.000
Acct. No:

*** GC descriptor: LC ***

GC temperature: 32 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	32- 32	-	5.0	5.0
2	32- 52	2.0	10.0	15.0
3	52-130	5.0	15.5	30.5
4	130-130	-	0.5	31.0

Valve times (minutes)

	Open	Close
Sweep/Split	31.0	0.0
Divert	31.0	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 450 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.175
Samp int (ms): 0.175

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	130.00	128.00
Resolution (low)	130.00	128.00
Ion energy	6.67	-4.00
Ion programming	4.08	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	2.00	not used

000117

Electron multiplier voltage: -1659.
Electrometer Range: 10 ^-7

4/3/91 12:34:38
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	4.2	1680.0	0.3	13886.	7.	8.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/03/91 15:39:34
DATA FILE: A0403BK04
REFERENCE: CLWTAB11
NAME LIST: CLWDRIVER INITIALIZATION OPTION: 10 PROCESSING OPTION: 3
REPORT: CLWRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	1	76	CLWRT1/CLWTC1
1	1	1	0	12	2	2	115	CLWRT2/CLWTC2
1	1	1	0	17	3	1	196	CLWRT3/CLWTC3

44 COMPOUNDS PROCESSED, 8 FOUND

< COMPOUND ><			---------- SEARCH ----------					>< SAT ><		------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CW	1	285	285	285	.	1	974	.	128	285	.	1
2	CW	2	-93	92	.	.	.	.	.	50	.	.	.
3	CW	3	-104	103	.	.	.	.	.	94	.	.	.
4	CW	4	-94	93	.	.	.	.	.	62	.	.	.
5	CW	5	-104	103	.	.	.	.	.	64	.	.	.
6	CW	6	166	166	165	-1	1	950	.	84	166	1	1
7	CW	7	143	143	143	.	1	925	.	43	143	.	1
8	CW	8	-147	147	.	.	.	.	.	76	.	.	.
9	CW	9	-137	136	.	.	.	.	.	96	.	.	.
10	CW	10	-212	212	.	.	.	.	.	63	.	.	.
11	CW	12	-297	297	.	.	.	.	.	83	298	.	1
12	CW	13	-311	311	.	.	.	.	.	97	.	.	.
13	CW	14	-112	111	.	.	.	.	.	101	.	.	.
14	CW	15	-182	182	.	.	.	.	.	96	.	.	.
15	CW	16	-261	261	.	.	.	.	.	96	.	.	.
16	CW	17	423	426	426	.	1	996	.	114	425	-1	1
17	CW	18	-363	365	.	.	.	.	.	62	.	.	.
18	CW	19	269	270	.	.	.	.	.	72	.	.	.
19	CW	20	-329	331	.	.	.	.	.	117	.	.	.
20	CW	21	-221	222	.	.	.	.	.	43	227	.	1
21	CW	22	-573	576	.	.	.	.	.	83	.	.	.
22	CW	23	-500	503	.	.	.	.	.	63	.	.	.
23	CW	24	-874	879	.	.	.	.	.	75	.	.	.
24	CW	25	-458	460	.	.	.	.	.	130	.	.	.
25	CW	27	-355	357	.	.	.	.	.	78	.	.	.
26	CW	28	-674	678	.	.	.	.	.	106	.	.	.
27	CW	29	353	355	354	-1	2	981	.	65	353	-1	1
28	CW	30	1244	1244	1244	.	1	997	.	117	1244	.	1
29	CW	26	-1063	1065	.	.	.	.	.	129	.	.	.
30	CW	31	-939	941	.	.	.	.	.	97	.	.	.
31	CW	32	-697	699	.	.	.	.	.	75	.	.	.
32	CW	33	-1066	1068	.	.	.	.	.	43	1073	.	1
33	CW	34	-769	771	.	.	.	.	.	43	.	.	.
34	CW	35	-944	946	.	.	.	.	.	164	.	.	.
35	CW	36	1667	1668	.	.	.	.	.	83	.	.	.
36	CW	37	-777	779	.	.	.	.	.	91	780	.	1
37	CW	38	-1252	1254	.	.	.	.	.	112	.	.	.
38	CW	39	-1304	1306	.	.	.	.	.	106	.	.	.
39	CW	40	-1462	1463	.	.	.	.	.	104	.	.	.
40	CW	41	-1343	1344	.	.	.	.	.	106	.	.	.
41	CW	42	-1452	1453	.	.	.	.	.	106	.	.	.
42	CW	43	-1500	1501	.	.	.	.	.	173	.	.	.
43	CW	44	1589	1590	1591	1	1	990	.	95	1592	1	1
44	CW	45	758	760	761	1	1	998	.	98	761	.	1

000119

Quantitation Report File: A0403BK04

Data: A0403BK04.TI
04/03/91 11:34:00
Sample: 90897, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	285	3:48	1	1.000	A BB	7613.	50.000 UG/L	11.09
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	166	2:13	1	0.582	A BB	75.	~~0.324 UG~~/L	0.07
7	43	143	1:54	1	0.502	A VV	517.	~~7.670 UG~~/L	1.70
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	83	298	3:58	1	1.046	A BB	47.	~~0.094 UG/L~~	0.02
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	114	425	5:40	16	1.000	A BB	34850.	50.000 UG/L	11.09
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	43	227	3:02	16	0.534	A BB	144.	~~0.384 UG/L~~	0.09
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	65	353	4:42	16	0.831	A BB	13598.	98.694 %	21.89
28	117	1244	16:35	28	1.000	A BB	37588.	50.000 UG/L	11.09
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	43	1073	14:18	28	0.863	A BB	31.	~~0.115 UG/L~~	0.03
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	91	780	10:24	28	0.627	A BB	37.	0.~~044 UG/L~~	0.01
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	95	1592	21:14	28	1.280	A BB	39731.	96.370 %	21.37
44	98	761	10:09	28	0.612	A BB	40410.	97.437 %	21.61

Quantitation Report File: A0403BK04A

Data: A0403BK04.TI
04/03/91 11:34:00
Sample: 90897, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

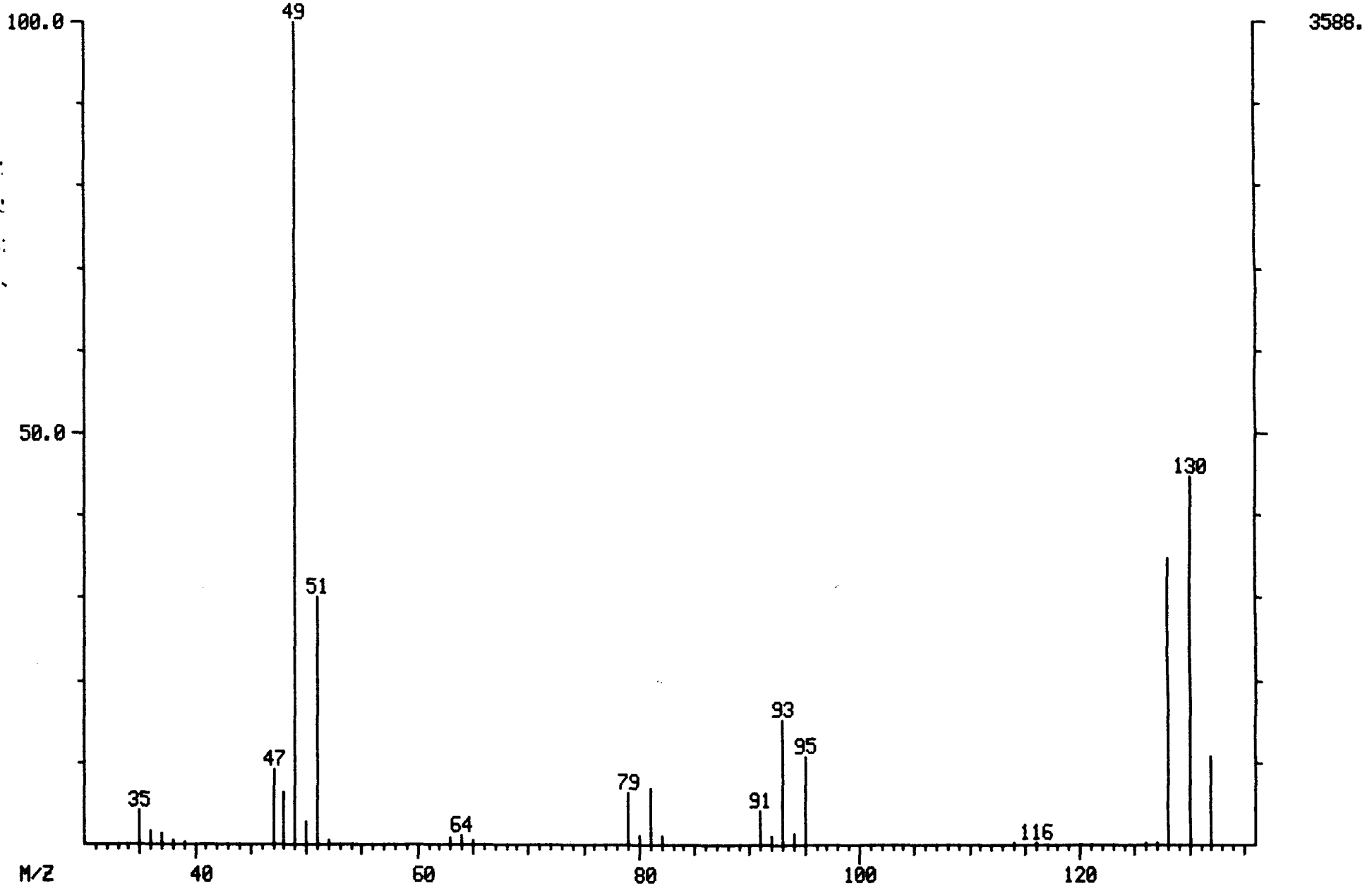
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	401	5:21	1	1.000	A BB	131204.	66.200	*100.

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/03/91 11:34:00 + 3:48
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 #285
CALI: A0403BK04 #3

BASE M/Z: 49
RIC: 10752.



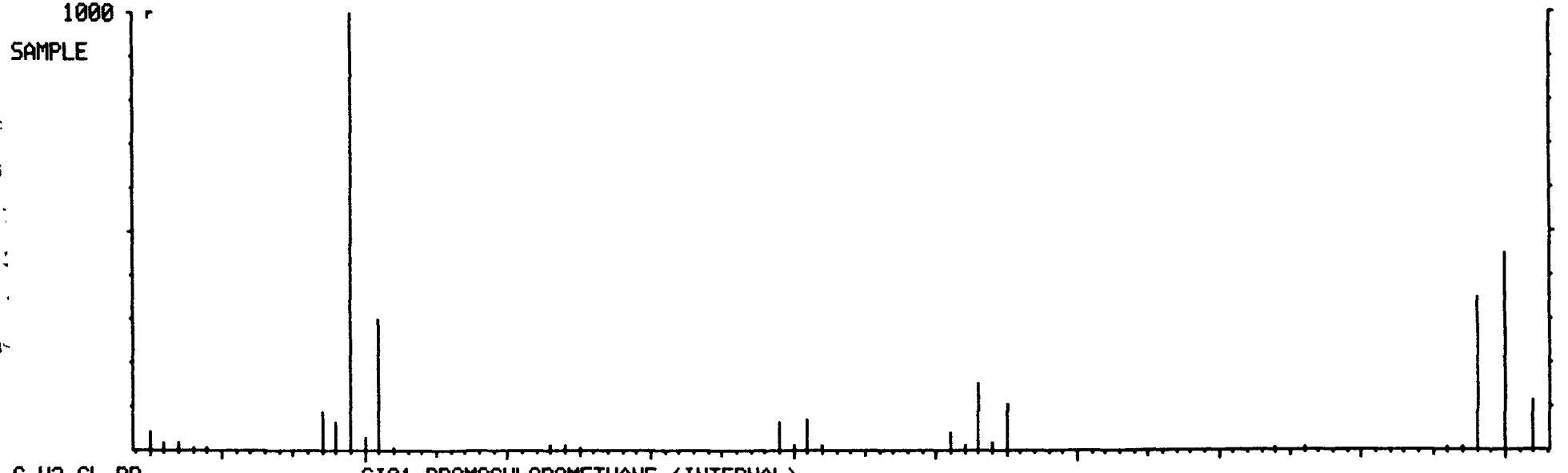
000124

LIBRARY SEARCH
04/03/91 11:34:00 + 3:48
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

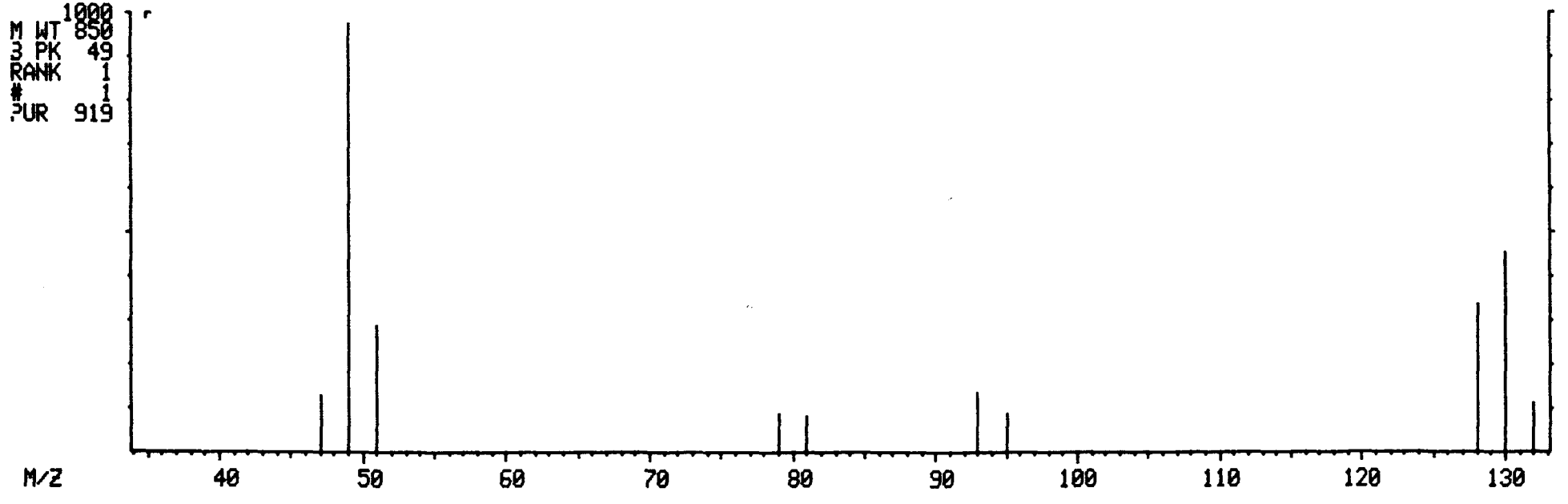
DATA: A0403BK04 # 285
CALI: A0403BK04 # 3

BASE M/Z: 49
RIC: 10751.

000125



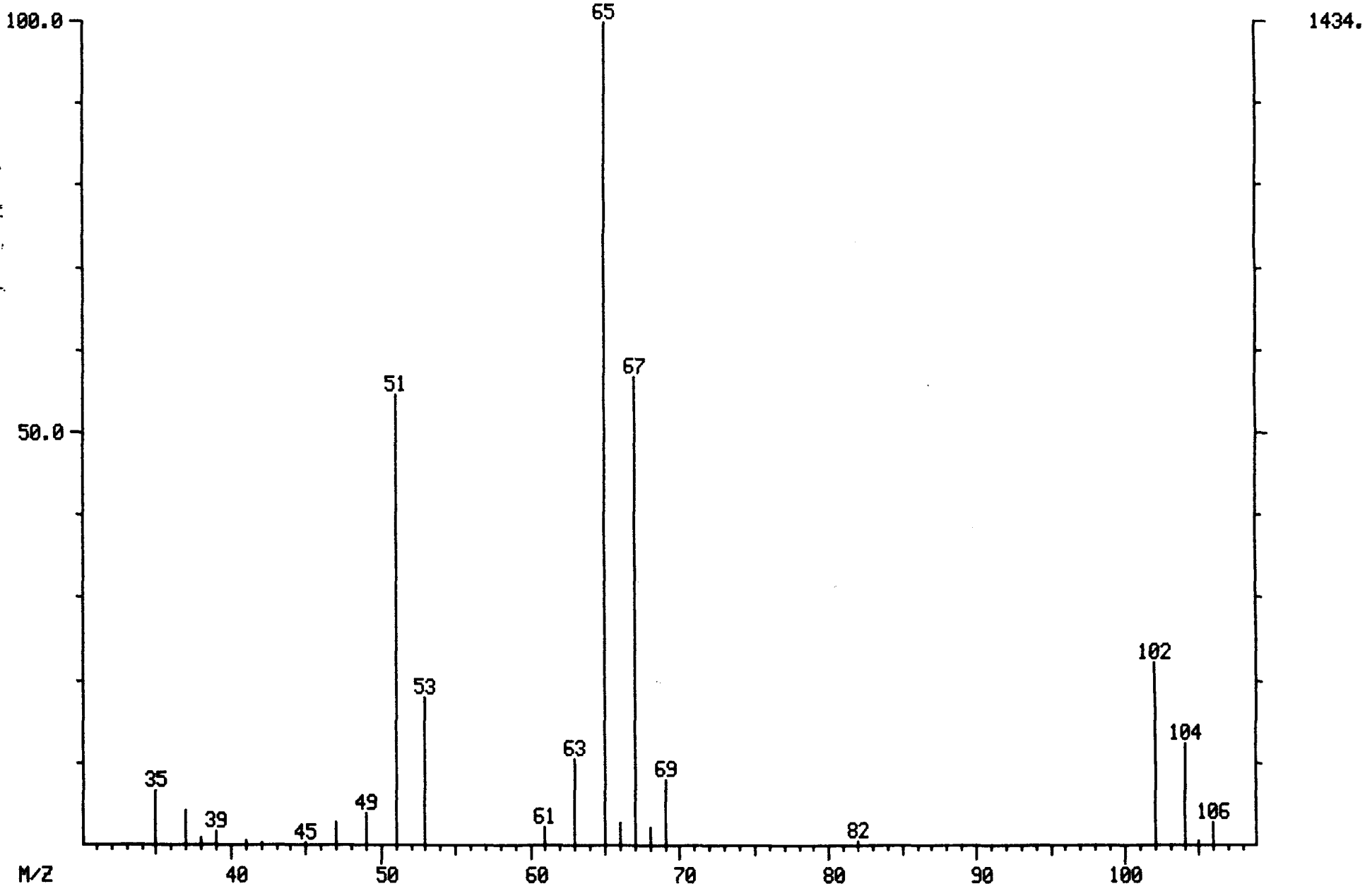
C.H2.CL.BR CI01 BROMOCHLOROMETHANE (INTERNAL)



MASS SPECTRUM
04/03/91 11:34:00 + 4:42
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 #353
CALI: A0403BK04 #3

BASE M/Z: 65
RIC: 4520.



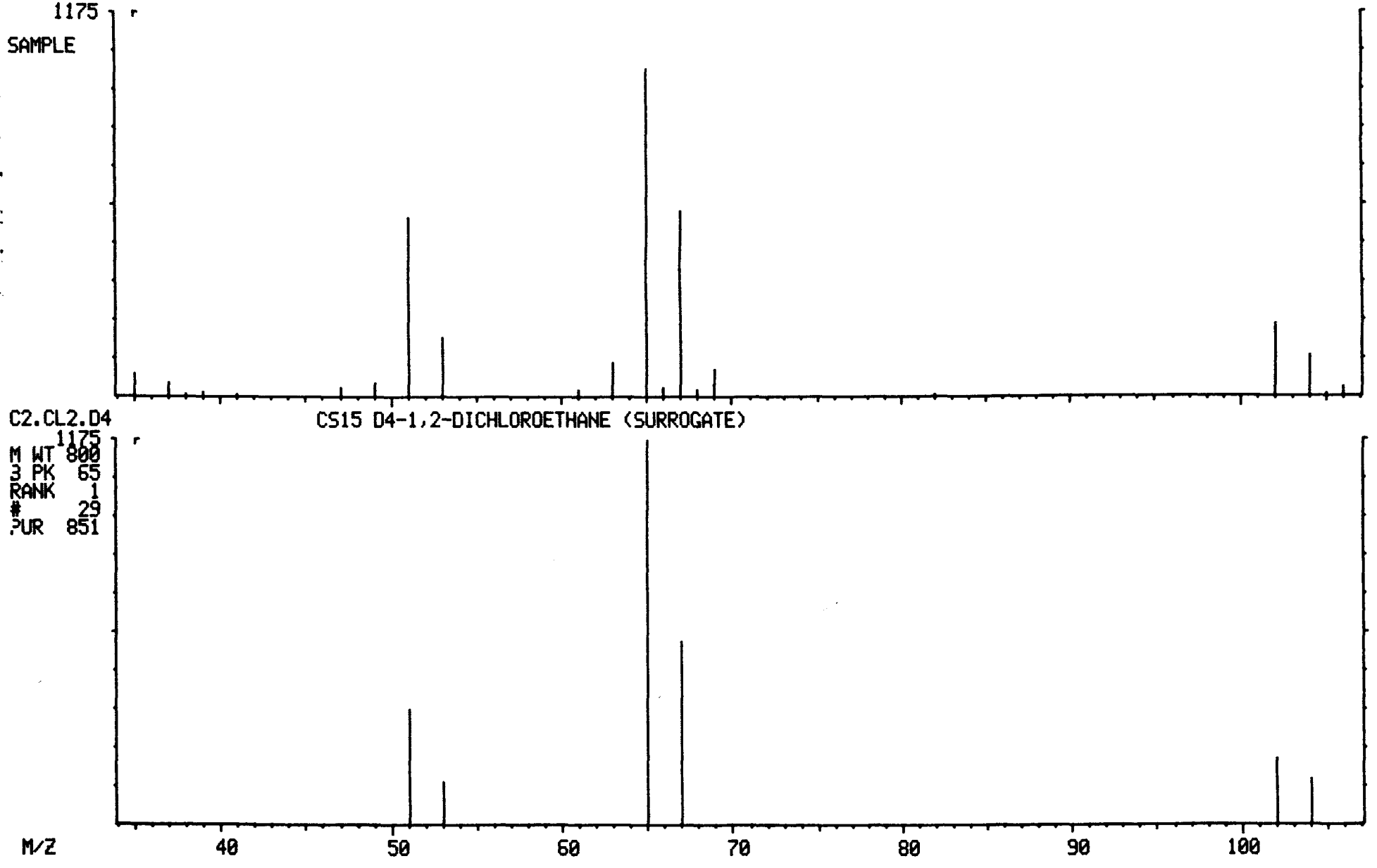
000126

LIBRARY SEARCH
04/03/91 11:34:00 + 4:42
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 # 353
CALI: A0403BK04 # 3

BASE M/Z: 65
RIC: 4511.

000127

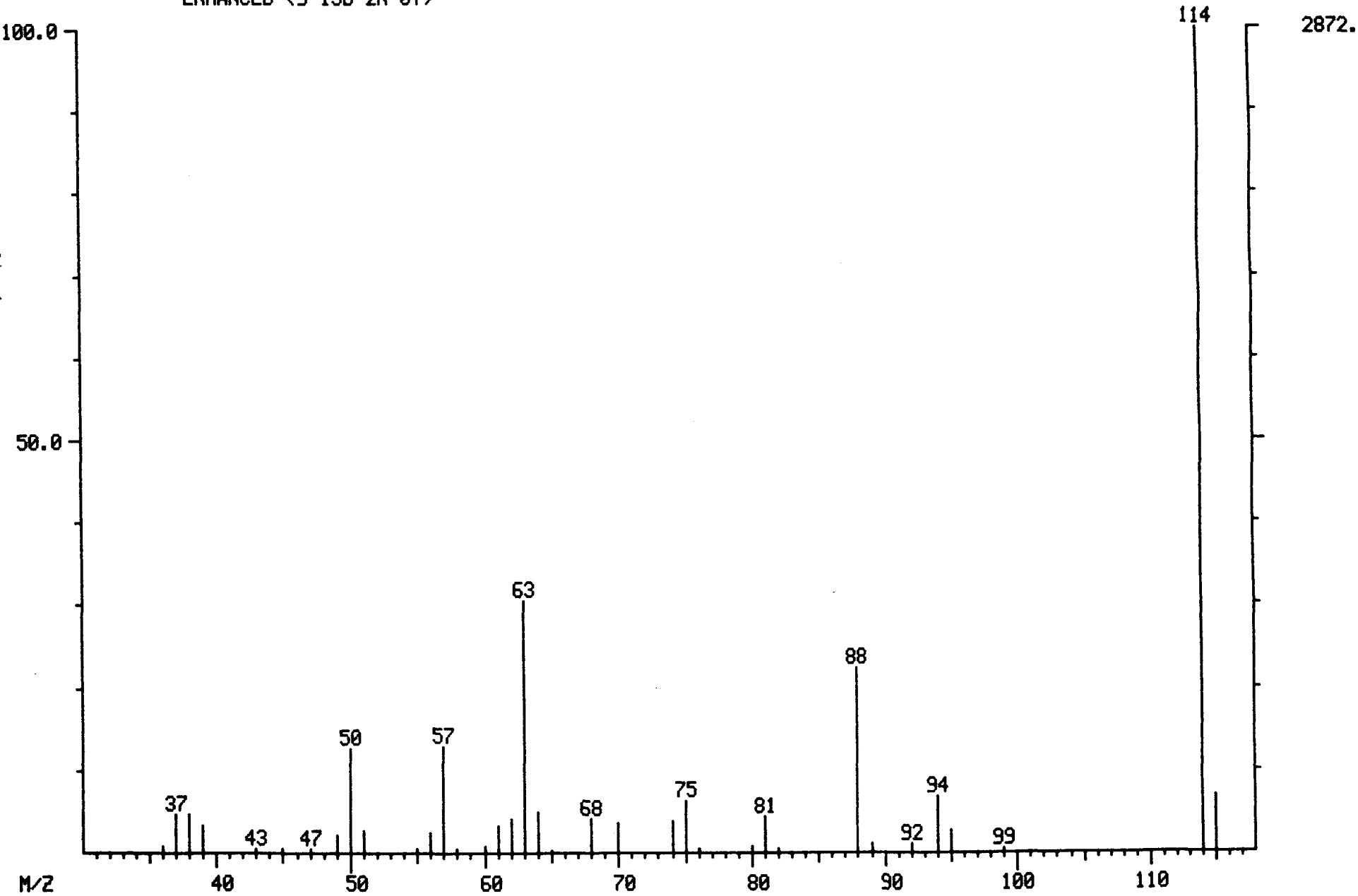


MASS SPECTRUM
04/03/91 11:34:00 + 5:40
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 #425
CALI: A0403BK04 #3

BASE M/Z: 114
RIC: 7456.

000128

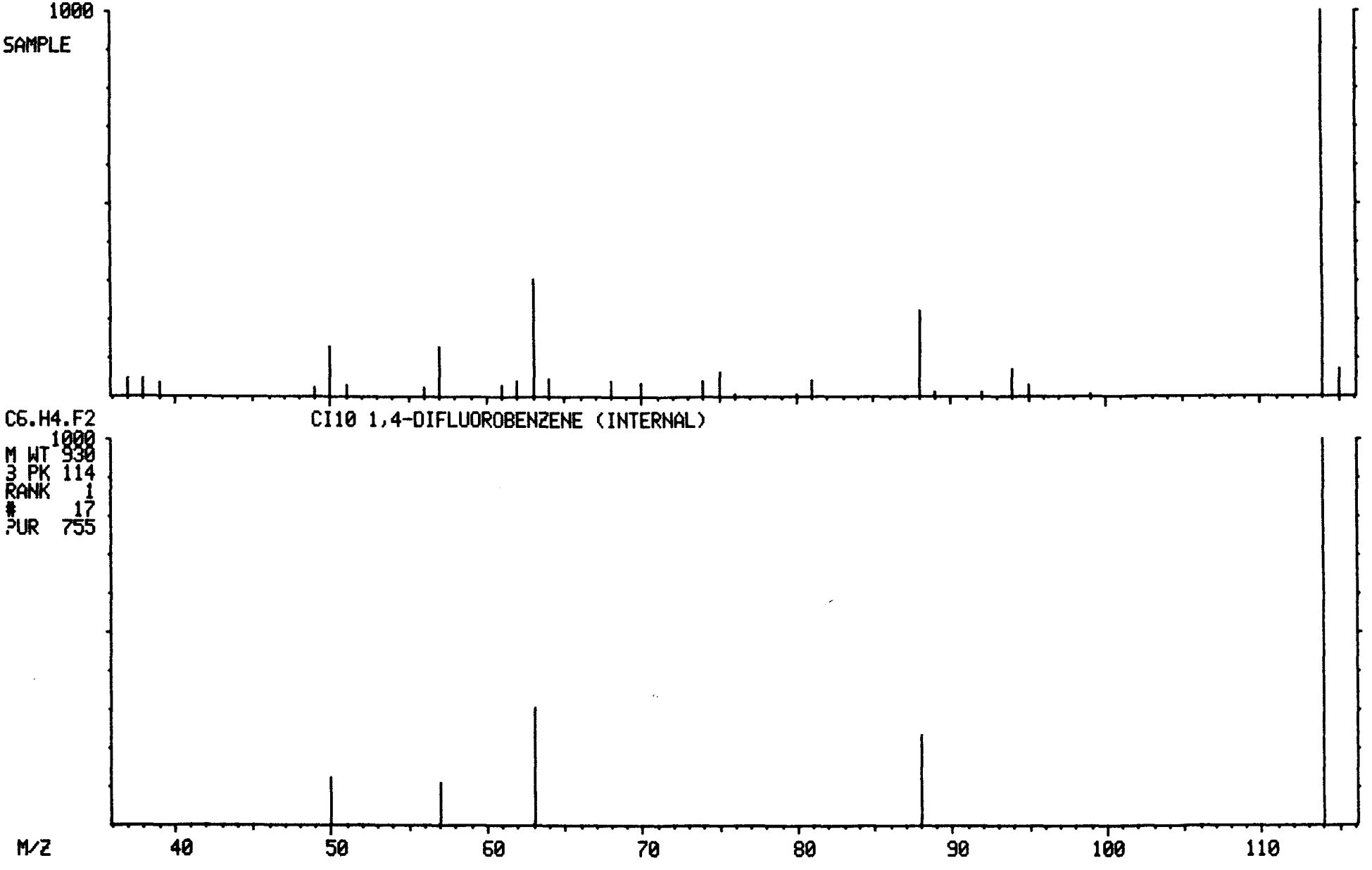


LIBRARY SEARCH
04/03/91 11:34:00 + 5:40
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 # 425
CALI: A0403BK04 # 3

BASE M/Z: 114
RIC: 7311.

000129

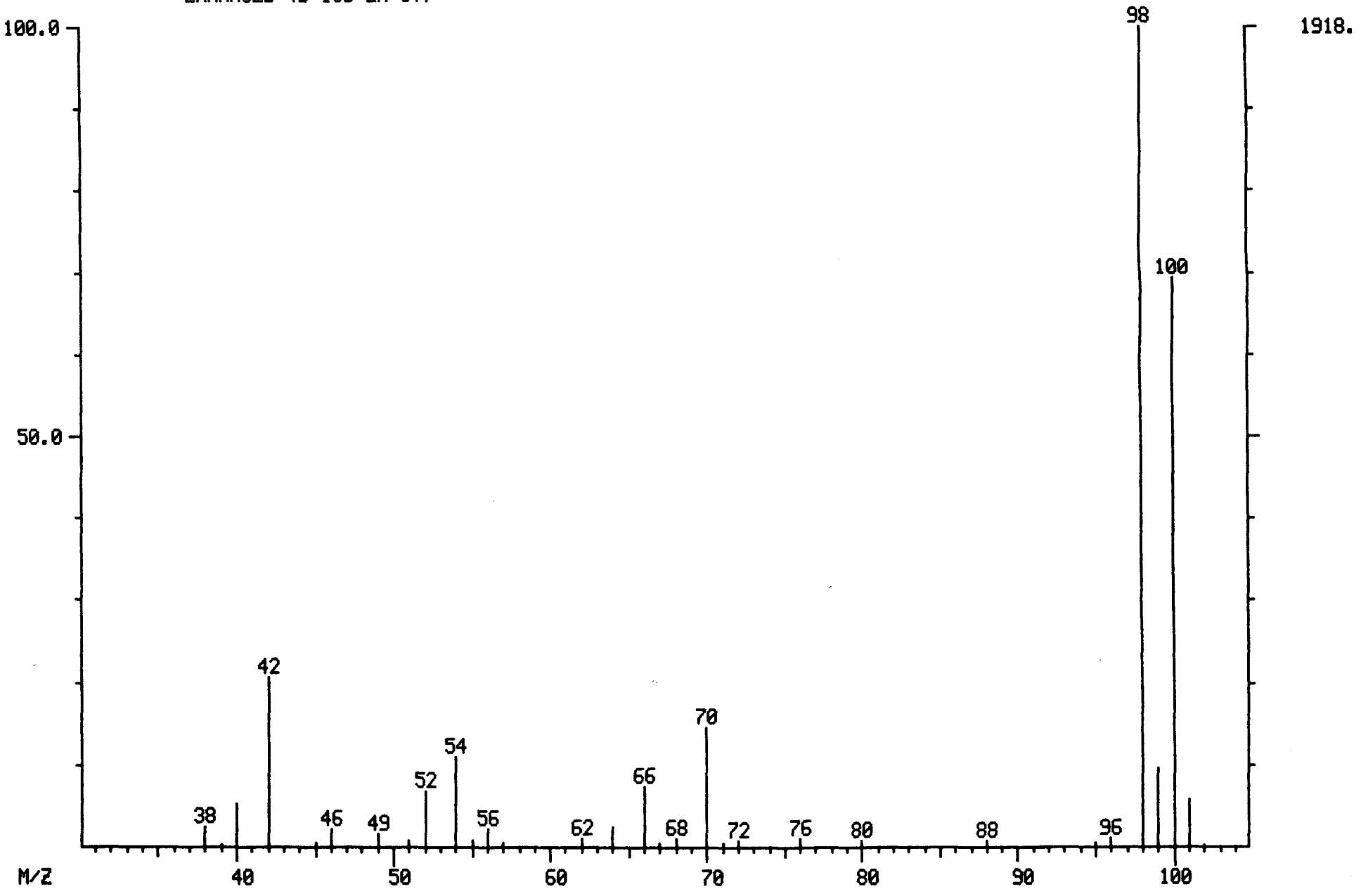


MASS SPECTRUM
04/03/91 11:34:00 + 10:09
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 #761
CALI: A0403BK04 #3

BASE M/Z: 98
RIC: 5264.

000130

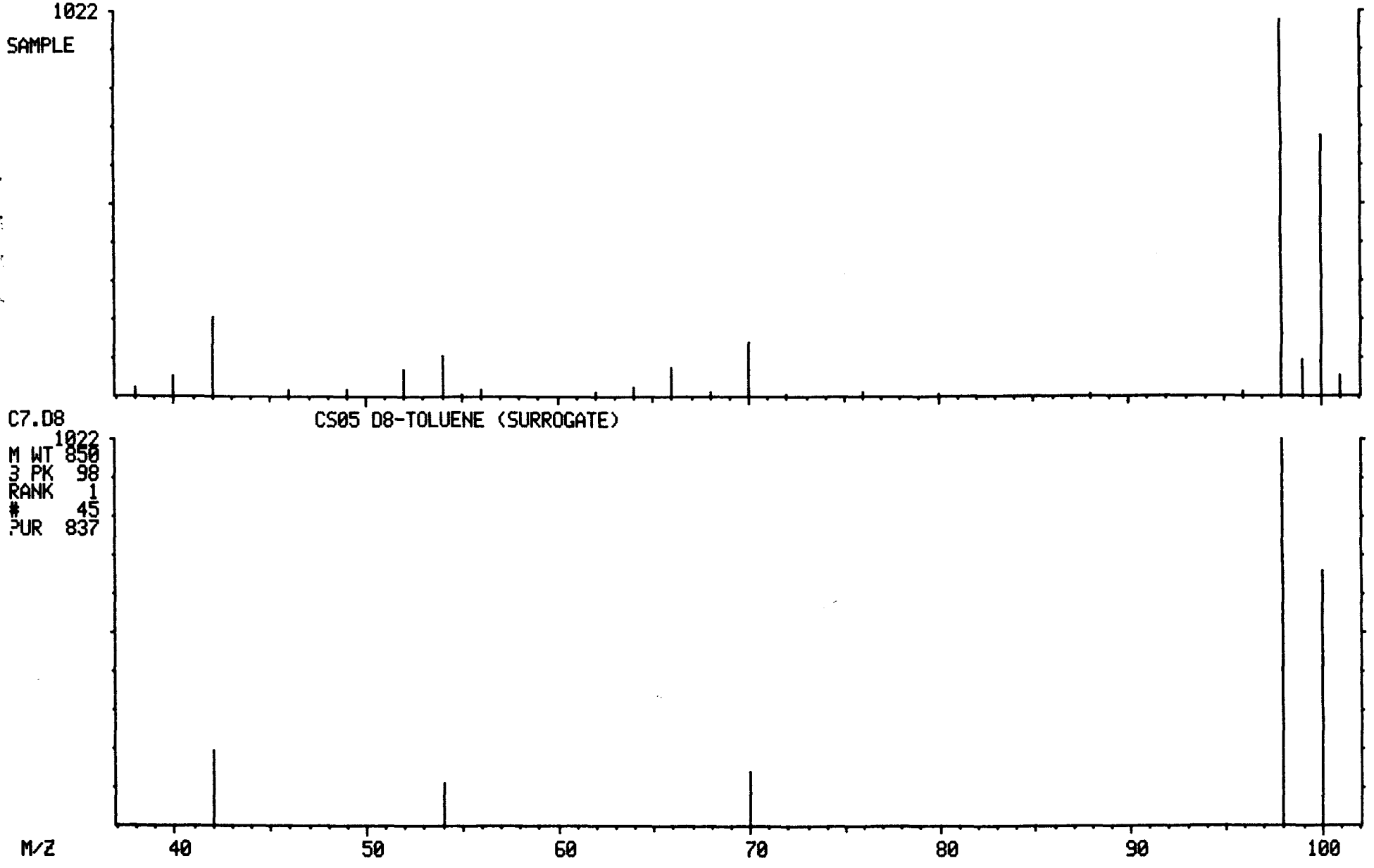


LIBRARY SEARCH
04/03/91 11:34:00 + 10:09
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 # 761
CALI: A0403BK04 # 3

BASE M/Z: 98
RIC: 5183.

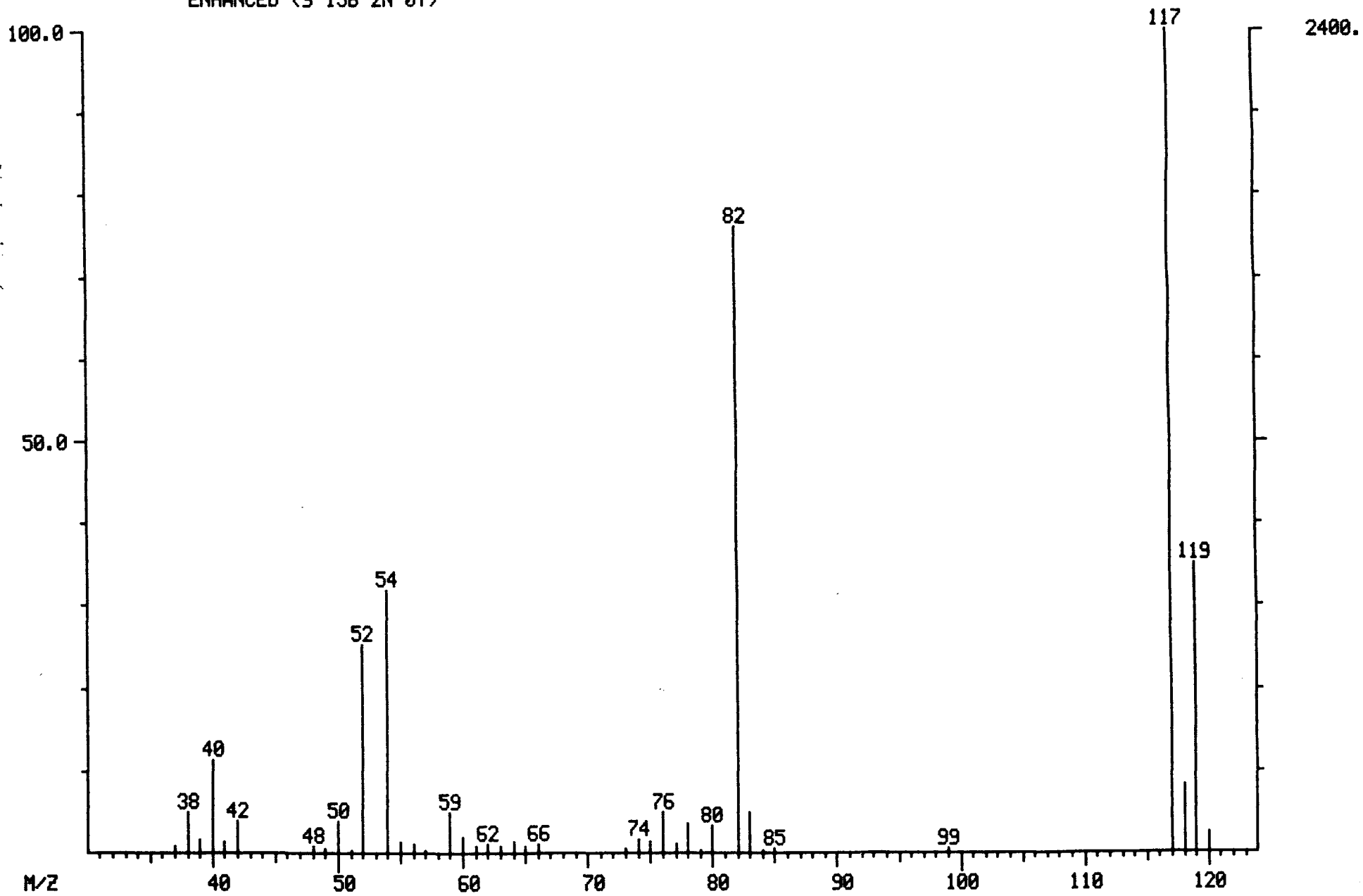
000131



MASS SPECTRUM
04/03/91 11:34:00 + 16:35
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 60 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 #1244
CALI: A0403BK04 #3

BASE M/Z: 117
RIC: 8384.



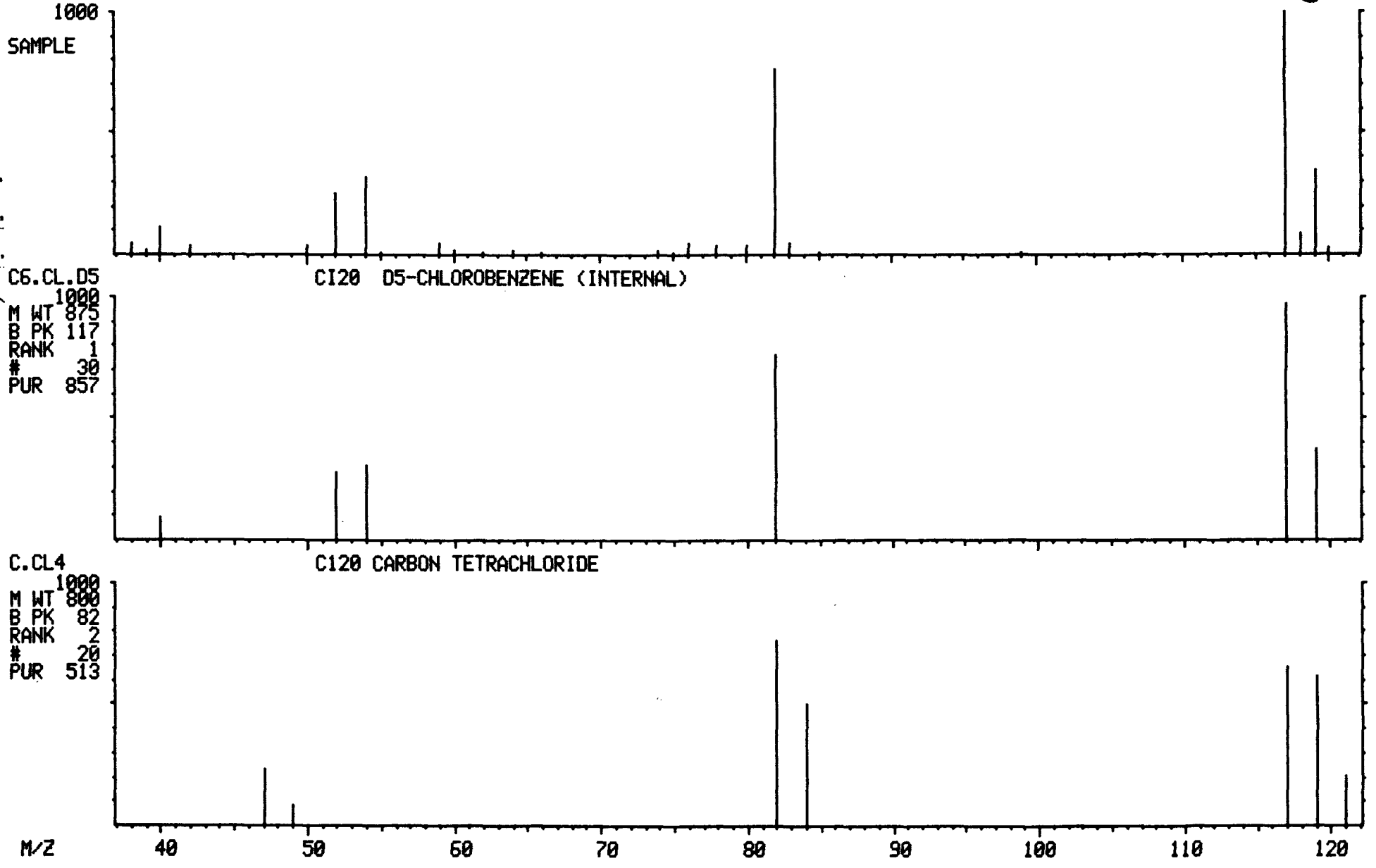
000132

LIBRARY SEARCH
04/03/91 11:34:00 + 16:35
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 #1244
CALI: A0403BK04 # 3

BASE M/Z: 117
RIC: 8135.

0001133

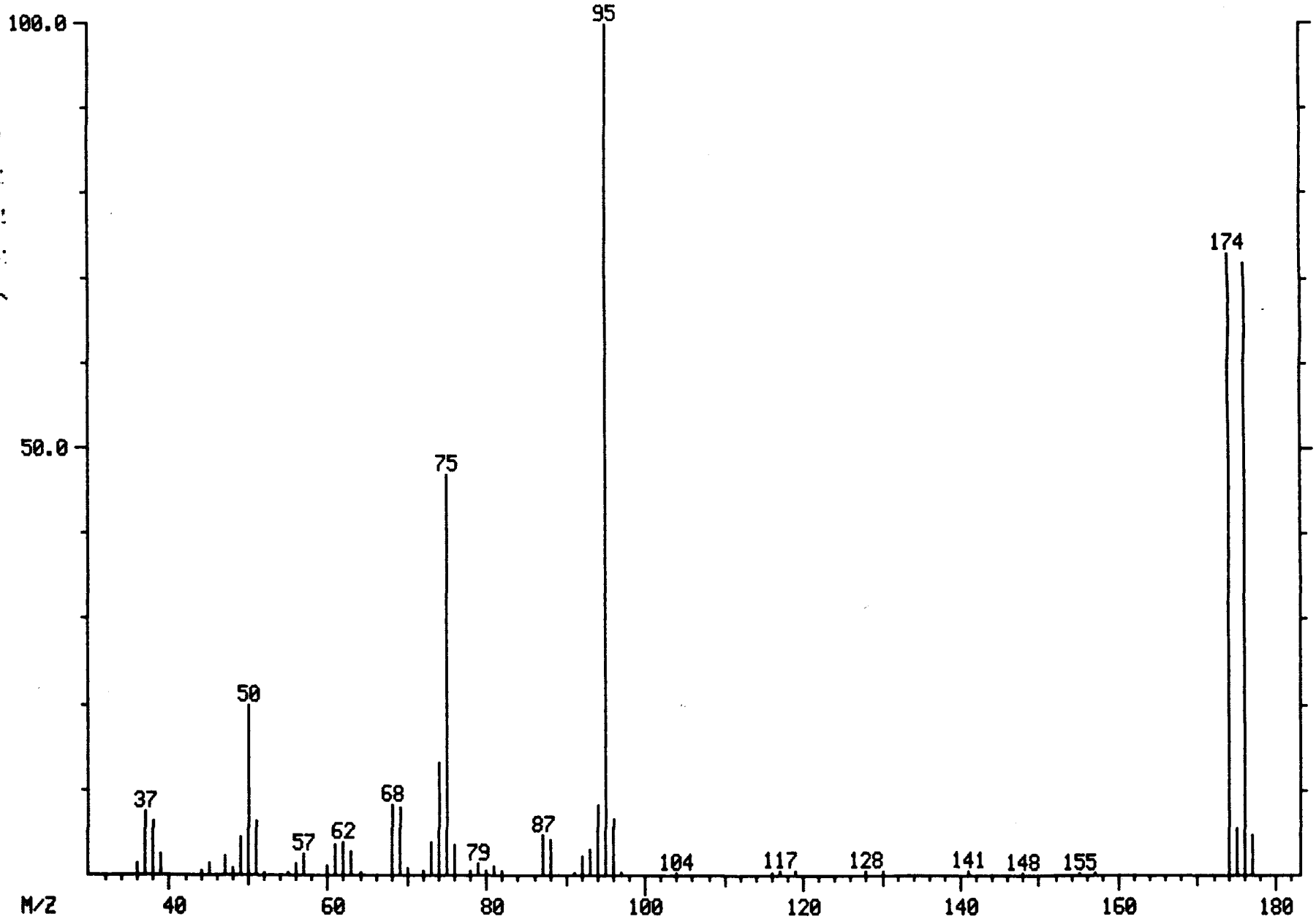


MASS SPECTRUM
04/03/91 11:34:00 + 21:14
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 #1592
CALI: A0403BK04 #3

BASE M/Z: 95
RIC: 18688.

000134

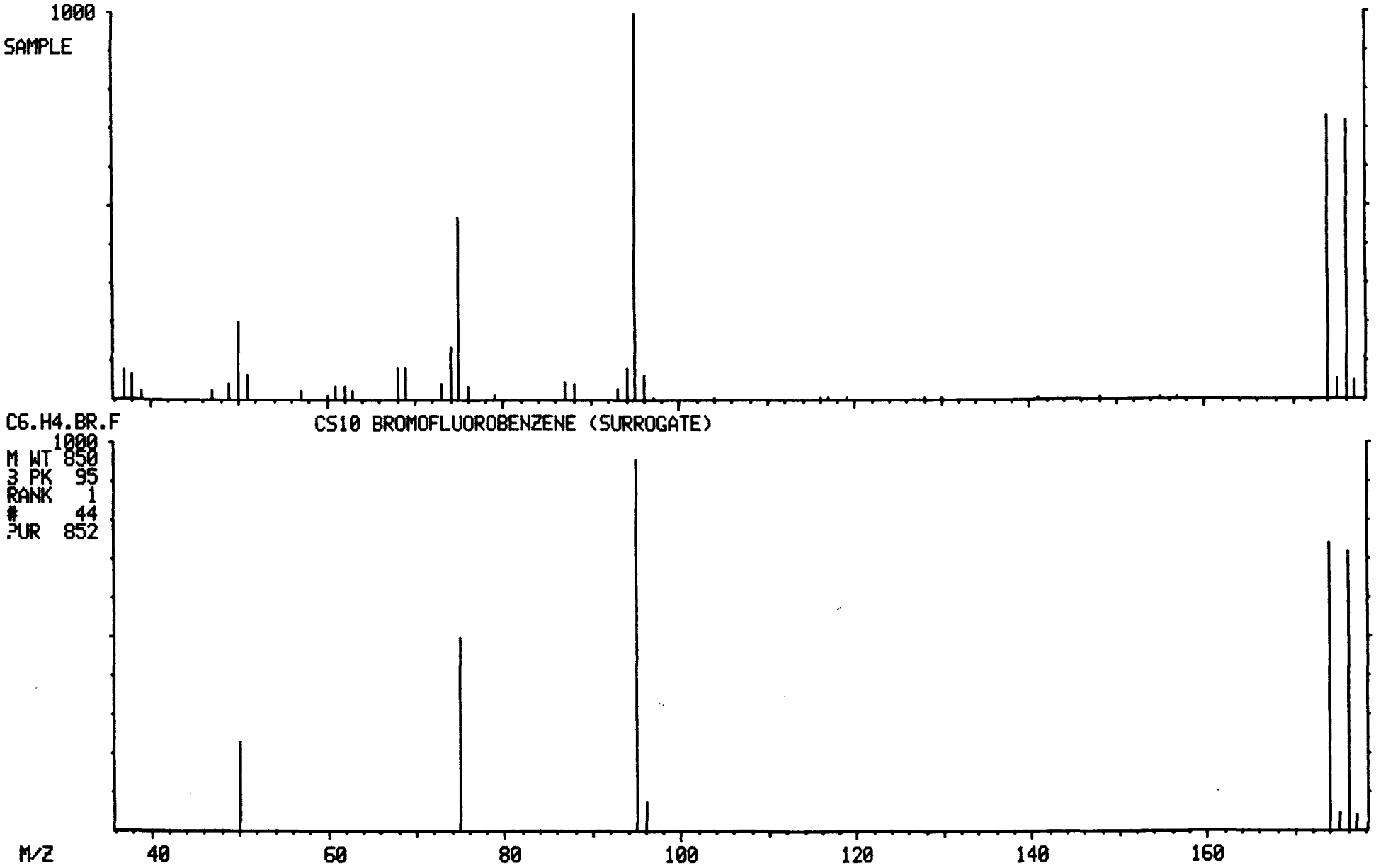


LIBRARY SEARCH
04/03/91 11:34:00 + 21:14
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 #1592
CALI: A0403BK04 # 3

BASE M/Z: 95
RIC: 18143.

0001.35

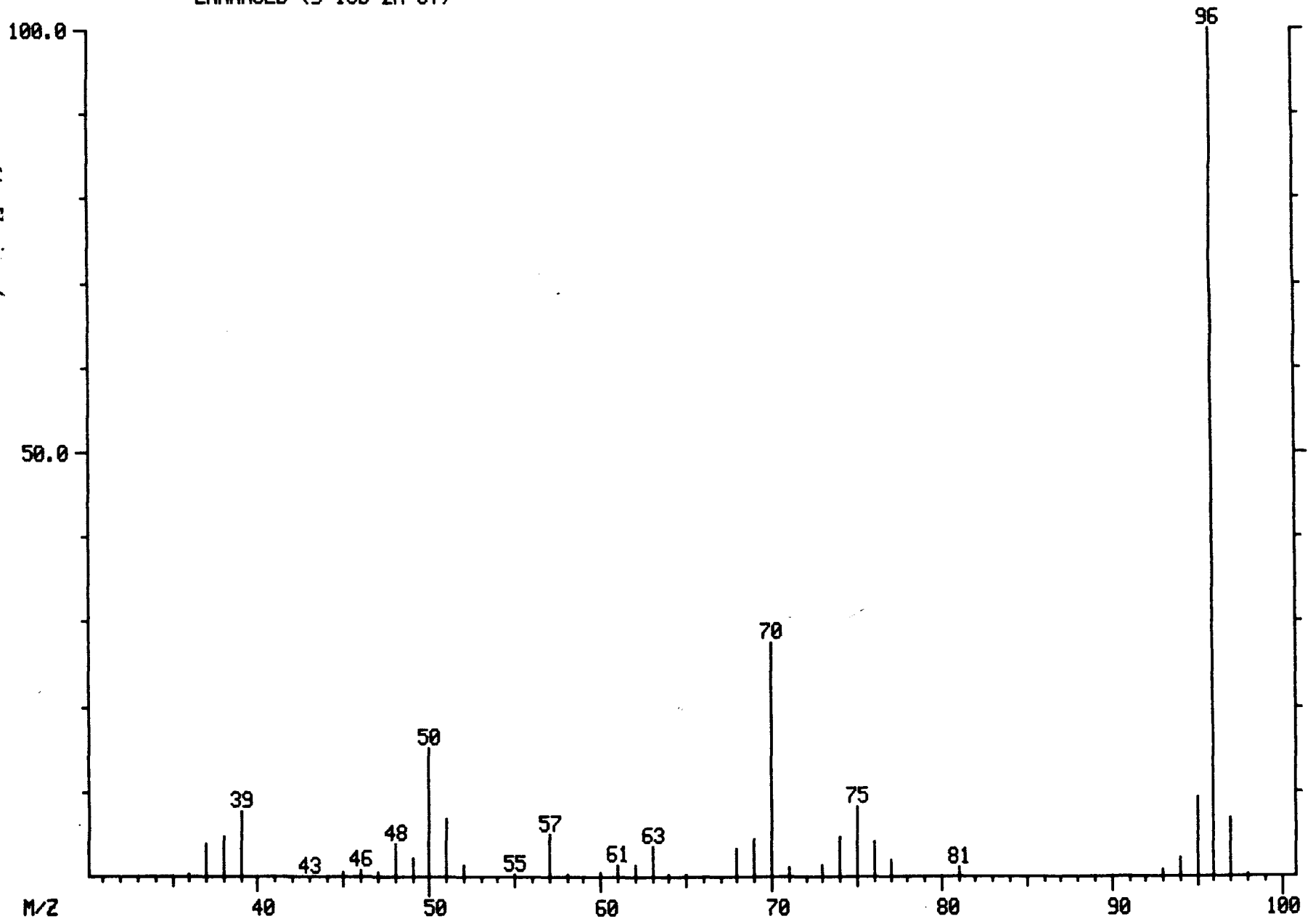


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/03/91 11:34:00 + 5:21
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 #401
CALI: A0403BK04 #3

BASE M/Z: 96
RIC: 11088.



4624.

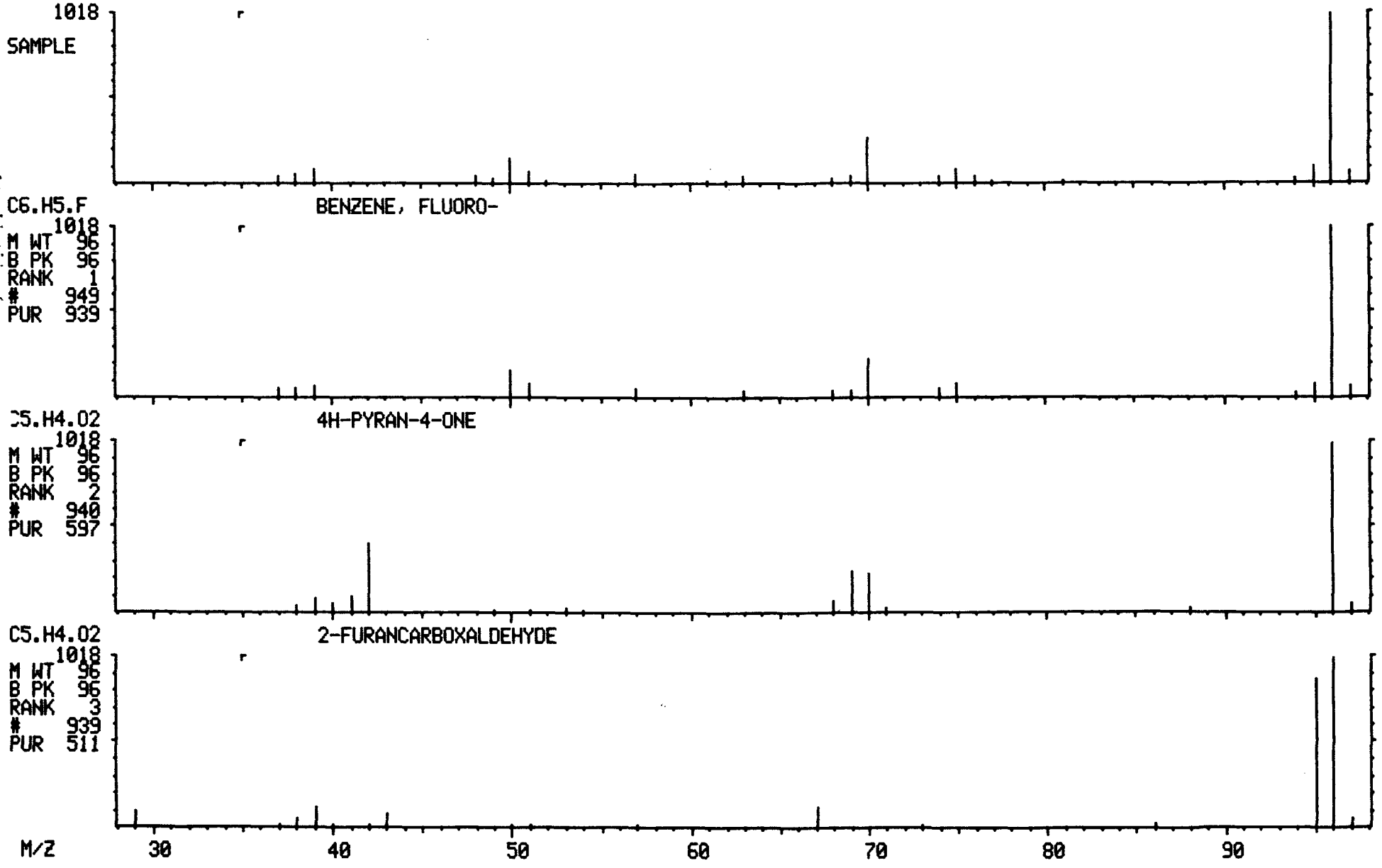
9 2 2 6 0 0 3 1 3

000137

LIBRARY SEARCH
04/03/91 11:34:00 + 5:21
SAMPLE: 90897, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK04 # 401
CALI: A0403BK04 # 3

BASE M/Z: 96
RIC: 10703.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G205

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190898

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0403BK05

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/03/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G205

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190898

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0403BK05

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/03/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

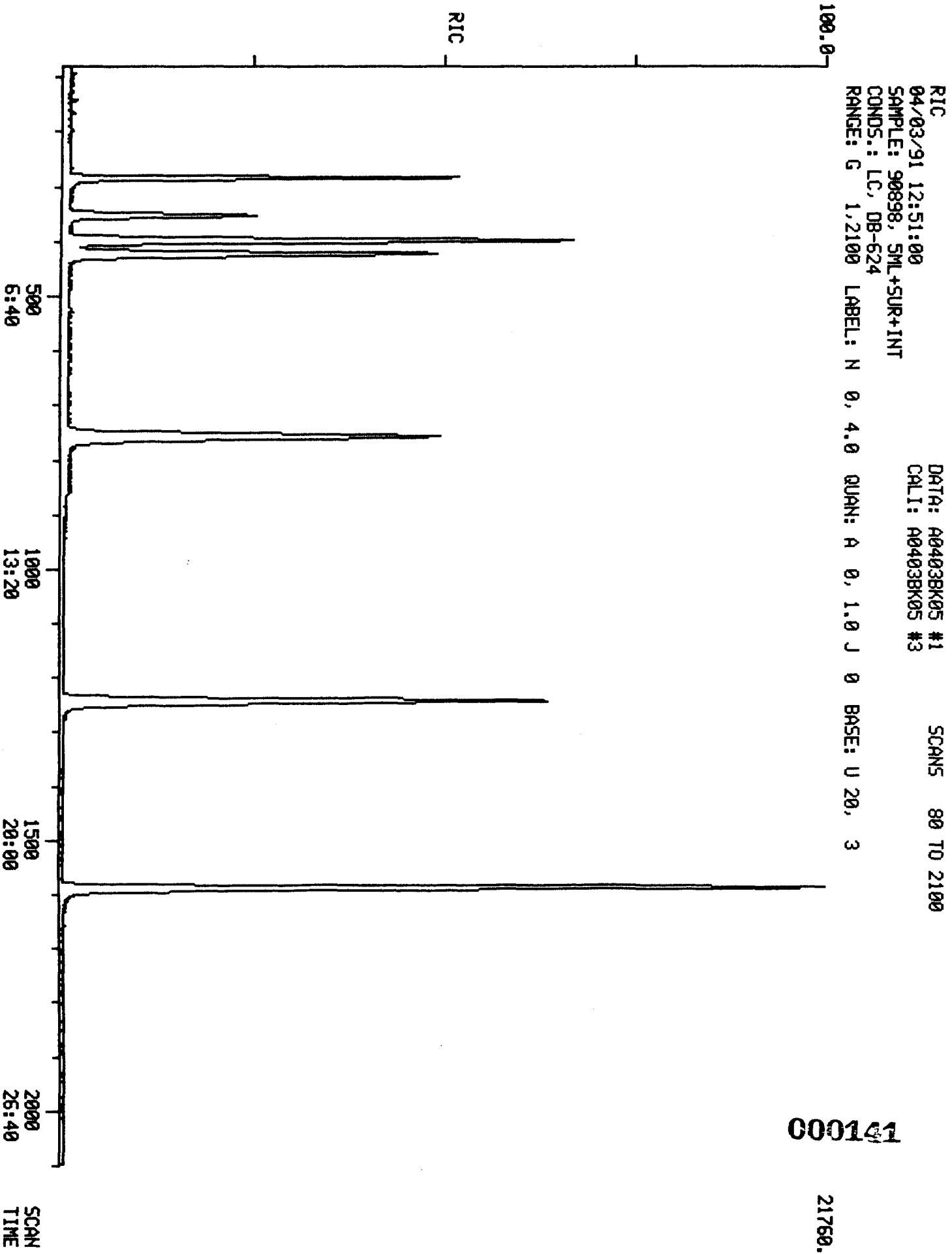
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000140

9 0 2 2 6 0 0 0 0 1 7

TCA FINISHED, 8 FOUND
FINISHED AT: 4/03/91 16:03:24



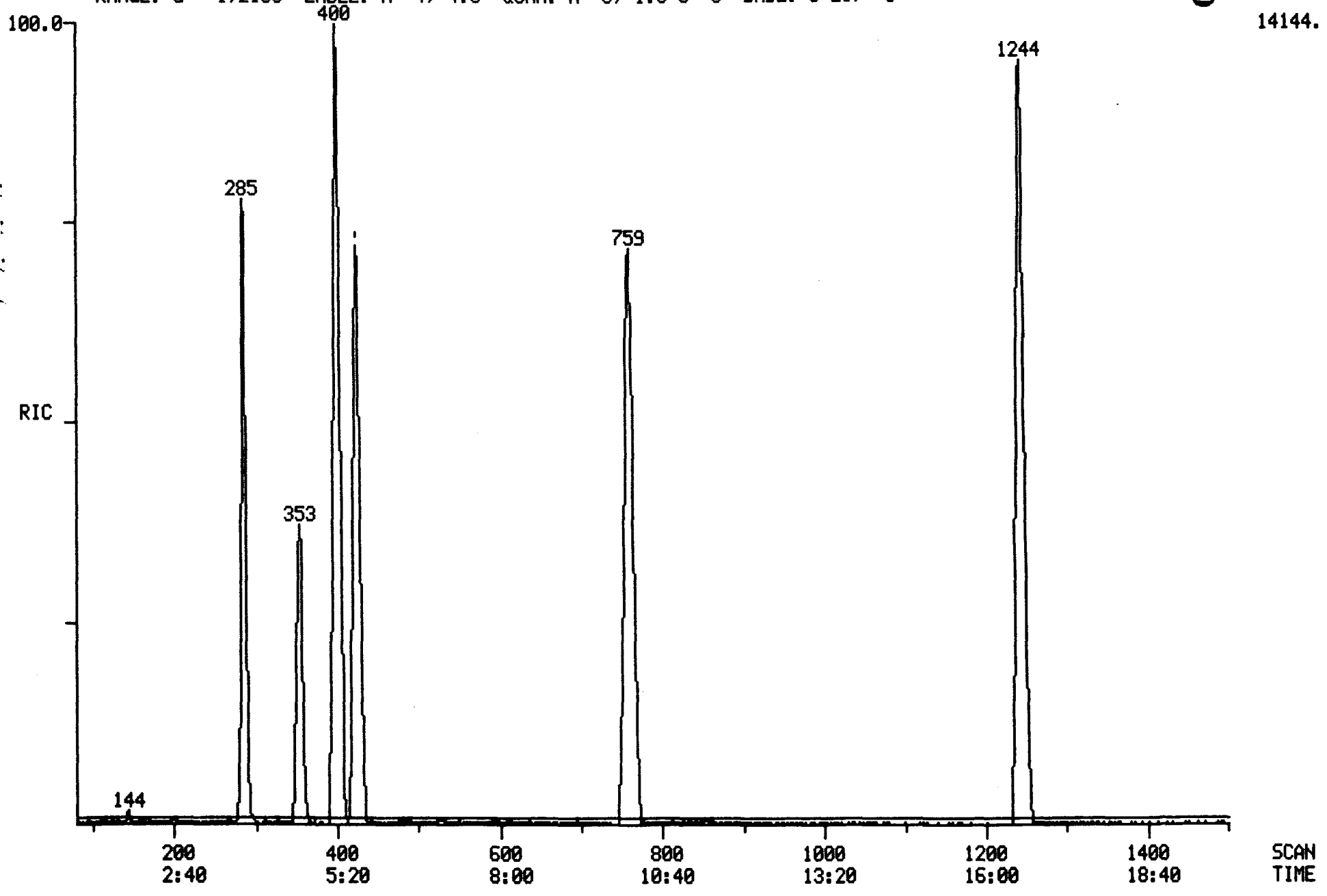
000141

6205

RIC
04/03/91 12:51:00
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

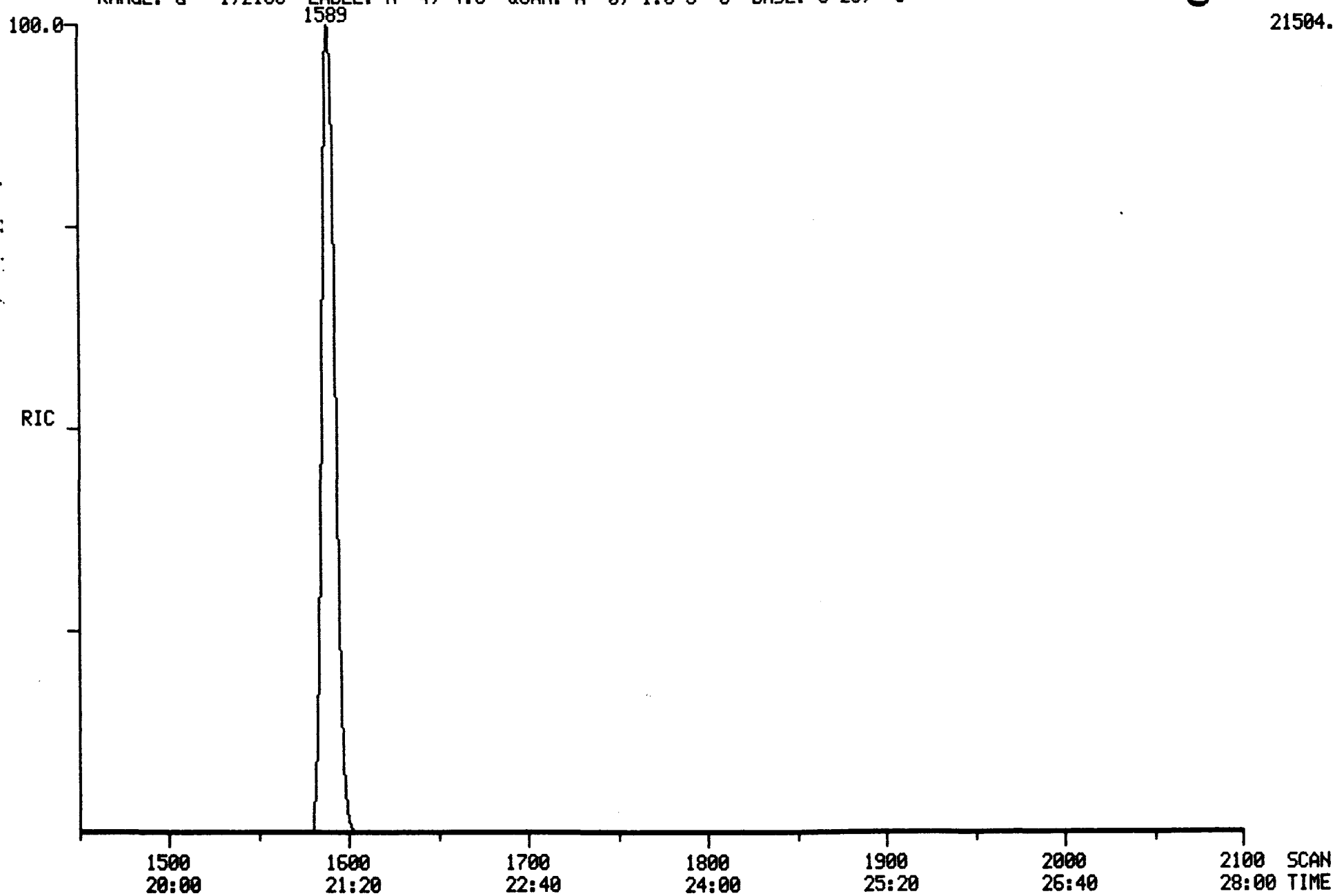
DATA: A0403BK05 #1 SCANS 80 TO 1500
CALI: A0403BK05 #3

000142



RIC
04/03/91 12:51:00
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0403BK05 #1 SCANS 1450 TO 2100
CALI: A0403BK05 #3



C001243

4/3/91 12:51:21 SCAN 1 OF 2100
Acquisition started

Acquire
04/03/91 12:51:00 + 0:02
Sample: 90898, 5ML+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:A0403BK05
Free sectors: 13028
Instrument: 5100
Analyst: BK

Acquiring
Scan: 2 of 2100
Weight: 0.000
Acct. No:

*** GC descriptor: LC ***

GC temperature: 32 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	Time (minutes) total
1	32- 32	-	5.0	5.0
2	32- 52	2.0	10.0	15.0
3	52-130	5.0	15.5	30.5
4	130-130	-	0.5	31.0

Valve times (minutes)

	Open	Close
Sweep/Split	31.0	0.0
Divert	31.0	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 450 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.175
Samp int (ms): 0.175

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	130.00	128.00
Resolution (low)	130.00	128.00
Ion energy	6.67	-4.00
Ion programming	4.08	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	2.00	not used

Electron multiplier voltage: -1659.
Electrometer Range: 10 ^-7

000144

4/3/91 13:19:22
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	4.0	1680.0	0.2	14199.	7.	8.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/03/91 15:58:45
DATA FILE: A0403BK05
REFERENCE: CLWTAB11
NAME LIST: CLWDRIVER INITIALIZATION OPTION: 10 PROCESSING OPTION: 3
REPORT: CLWRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	1	76	CLWRT1/CLWTC1
1	1	1	0	12	2	1	0	CLWRT2/CLWTC2
1	1	1	0	17	3	1	163	CLWRT3/CLWTC3

44 COMPOUNDS PROCESSED, 8 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CW	1	285	285	285	.	1	976	.	128	285	.	1
2	CW	2	-92	93	.	.	.	.	.	50	.	.	.
3	CW	3	-103	104	.	.	.	.	.	94	.	.	.
4	CW	4	-93	94	.	.	.	.	.	62	.	.	.
5	CW	5	-103	104	.	.	.	.	.	64	.	.	.
6	CW	6	165	165	166	1	1	923	.	84	166	.	1
7	CW	7	143	143	143	.	1	985	.	43	143	.	1
8	CW	8	-147	147	.	.	.	.	.	76	.	.	.
9	CW	9	-136	137	.	.	.	.	.	96	.	.	.
10	CW	10	-212	212	.	.	.	.	.	63	.	.	.
11	CW	12	-297	297	.	.	.	.	.	83	297	.	1
12	CW	13	-311	311	.	.	.	.	.	97	.	.	.
13	CW	14	-111	112	.	.	.	.	.	101	.	.	.
14	CW	15	-182	182	.	.	.	.	.	96	.	.	.
15	CW	16	-261	261	.	.	.	.	.	96	.	.	.
16	CW	17	426	424	424	.	1	994	.	114	424	.	1
17	CW	18	-365	364	.	.	.	.	.	62	.	.	.
18	CW	19	-270	270	.	.	.	.	.	72	.	.	.
19	CW	20	-331	330	.	.	.	.	.	117	.	.	.
20	CW	21	-222	223	.	.	.	.	.	43	228	.	2
21	CW	22	-576	572	.	.	.	.	.	83	.	.	.
22	CW	23	-503	500	.	.	.	.	.	63	.	.	.
23	CW	24	-879	871	.	.	.	.	.	75	.	.	.
24	CW	25	-460	458	.	.	.	.	.	130	.	.	.
25	CW	27	-357	356	.	.	.	.	.	78	.	.	.
26	CW	28	-678	672	.	.	.	.	.	106	.	.	.
27	CW	29	354	353	353	.	1	984	.	65	353	.	1
28	CW	30	1244	1244	1244	.	1	994	.	117	1243	-1	1
29	CW	26	-1065	1064	.	.	.	.	.	129	.	.	.
30	CW	31	-941	940	.	.	.	.	.	97	.	.	.
31	CW	32	-699	698	.	.	.	.	.	75	.	.	.
32	CW	33	-1068	1067	.	.	.	.	.	43	.	.	.
33	CW	34	-771	770	.	.	.	.	.	43	766	.	2
34	CW	35	-946	945	.	.	.	.	.	164	.	.	.
35	CW	36	-1668	1667	.	.	.	.	.	83	.	.	.
36	CW	37	-779	778	.	.	.	.	.	91	.	.	.
37	CW	38	-1254	1253	.	.	.	.	.	112	.	.	.
38	CW	39	-1306	1305	.	.	.	.	.	106	.	.	.
39	CW	40	-1463	1462	.	.	.	.	.	104	.	.	.
40	CW	41	-1344	1343	.	.	.	.	.	106	.	.	.
41	CW	42	-1453	1452	.	.	.	.	.	106	.	.	.
42	CW	43	-1501	1500	.	.	.	.	.	173	.	.	.
43	CW	44	1591	1590	1589	-1	1	989	.	95	1590	1	1
44	CW	45	761	760	759	-1	1	995	.	98	759	.	1

000146

Quantitation Report File: A0403BK05

Data: A0403BK05.TI
04/03/91 12:51:00
Sample: 90898, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	285	3:48	1	1.000	A BB	7303.	50.000 UG/L	11.28
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	166	2:13	1	0.582	A BB	88.	~~0.396 UG/L~~	0.09
7	43	143	1:54	1	0.502	A BB	430.	~~6.650 UG/L~~	1.50
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	83	297	3:58	1	1.042	A BB	161.	~~0.335 UG/L~~	0.08
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	114	424	5:39	16	1.000	A BB	34673.	50.000 UG/L	11.28
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	43	228	3:02	16	0.538	A*VB	143.	~~0.385 UG/L~~	0.09
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	65	353	4:42	16	0.833	A BB	13314.	97.131 %	21.91
28	117	1243	16:34	28	1.000	A BB	38286.	50.000 UG/L	11.28
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	766	10:13	28	0.616	A*VV	232.	0.~~694 UG/L~~	0.16
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	95	1590	21:12	28	1.279	A BB	39253.	93.473 %	21.08
44	98	759	10:07	28	0.611	A BB	39942.	94.552 %	21.33

Quantitation Report File: A0403BK05A

Data: A0403BK05.TI
04/03/91 12:51:00
Sample: 90898, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	400	5:20	1	1.000	A BB	128392.	66.200	*100.

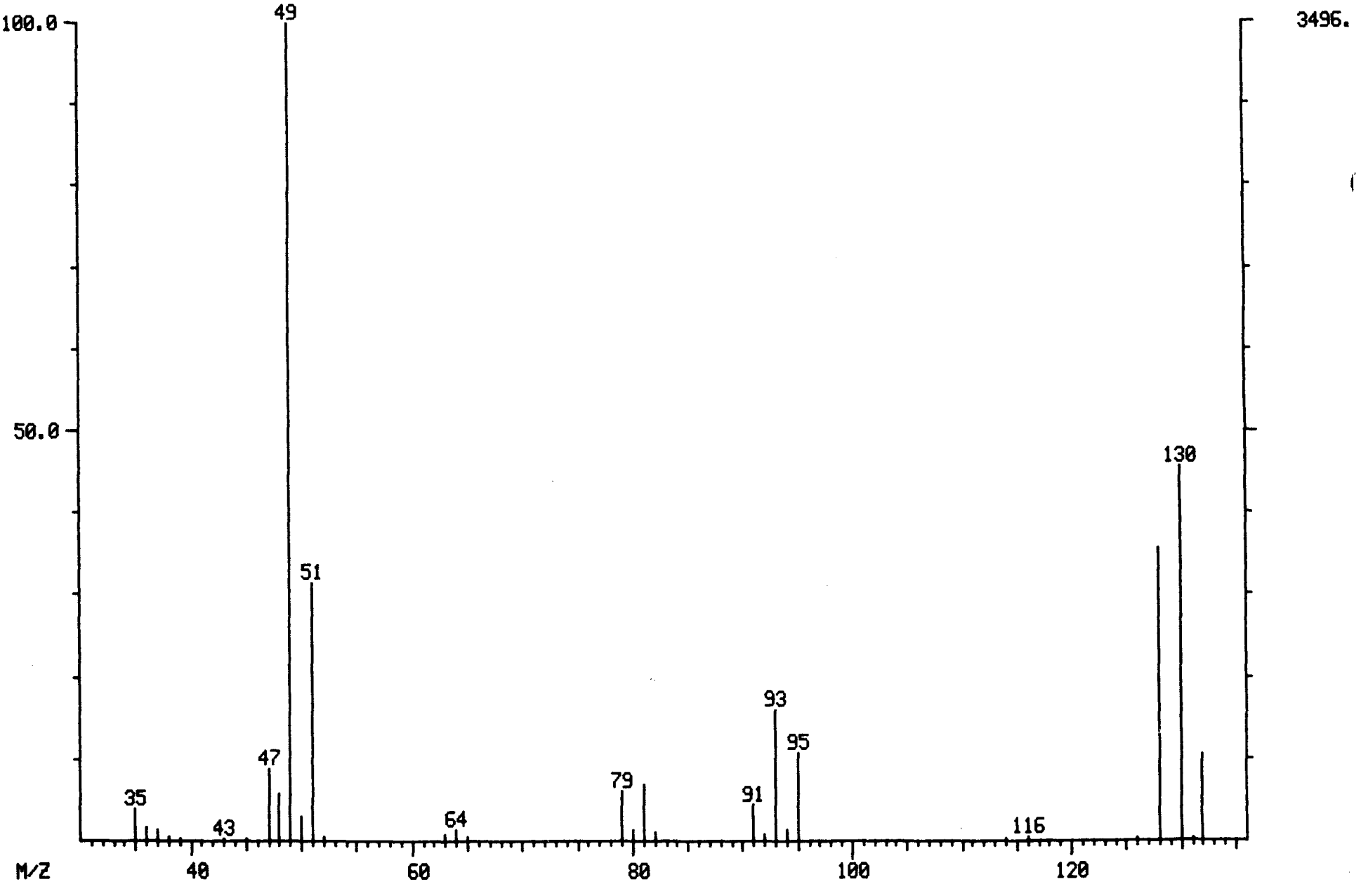
TARGET COMPOUND SPECTA

MASS SPECTRUM
04/03/91 12:51:00 + 3:48
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 #285
CALI: A0403BK05 #3

BASE M/Z: 49
RIC: 10608.

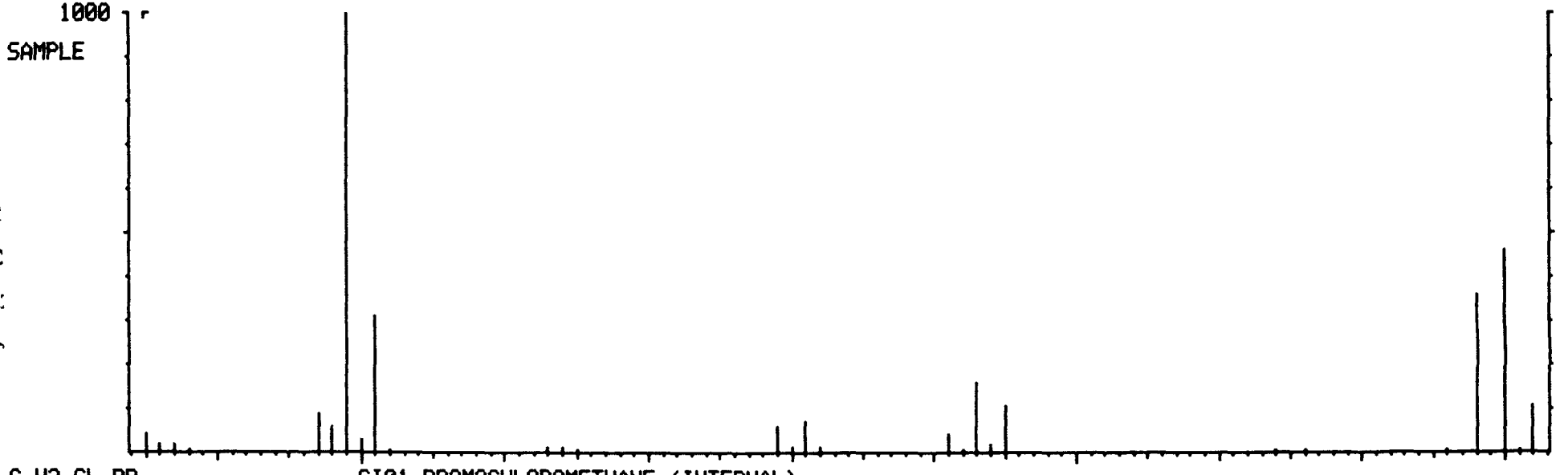
C09151



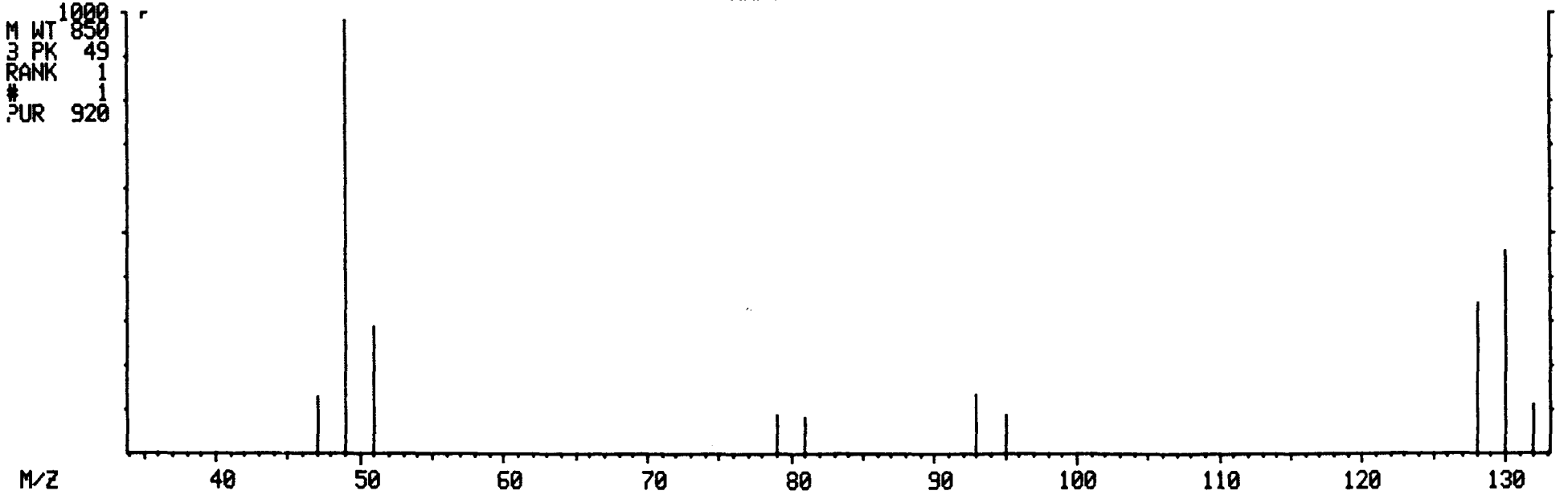
LIBRARY SEARCH
04/03/91 12:51:00 + 3:48
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 # 285
CALI: A0403BK05 # 3

BASE M/Z: 49
RIC: 10575.



C.H2.CL.BR CI01 BROMOCHLOROMETHANE (INTERNAL)

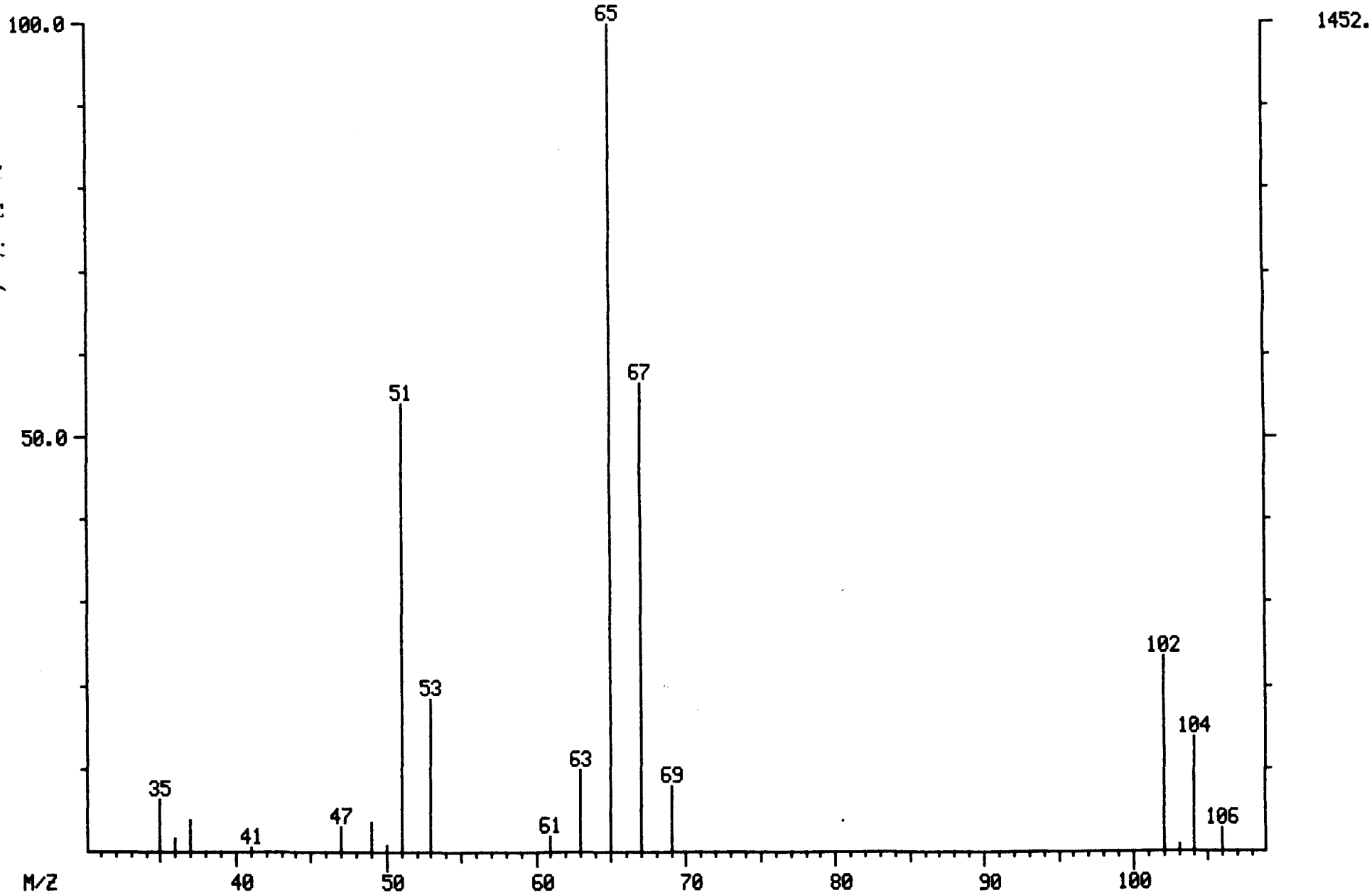


000152

MASS SPECTRUM
04/03/91 12:51:00 + 4:42
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 #353
CALI: A0403BK05 #3

BASE M/Z: 65
RIC: 4504.



000153

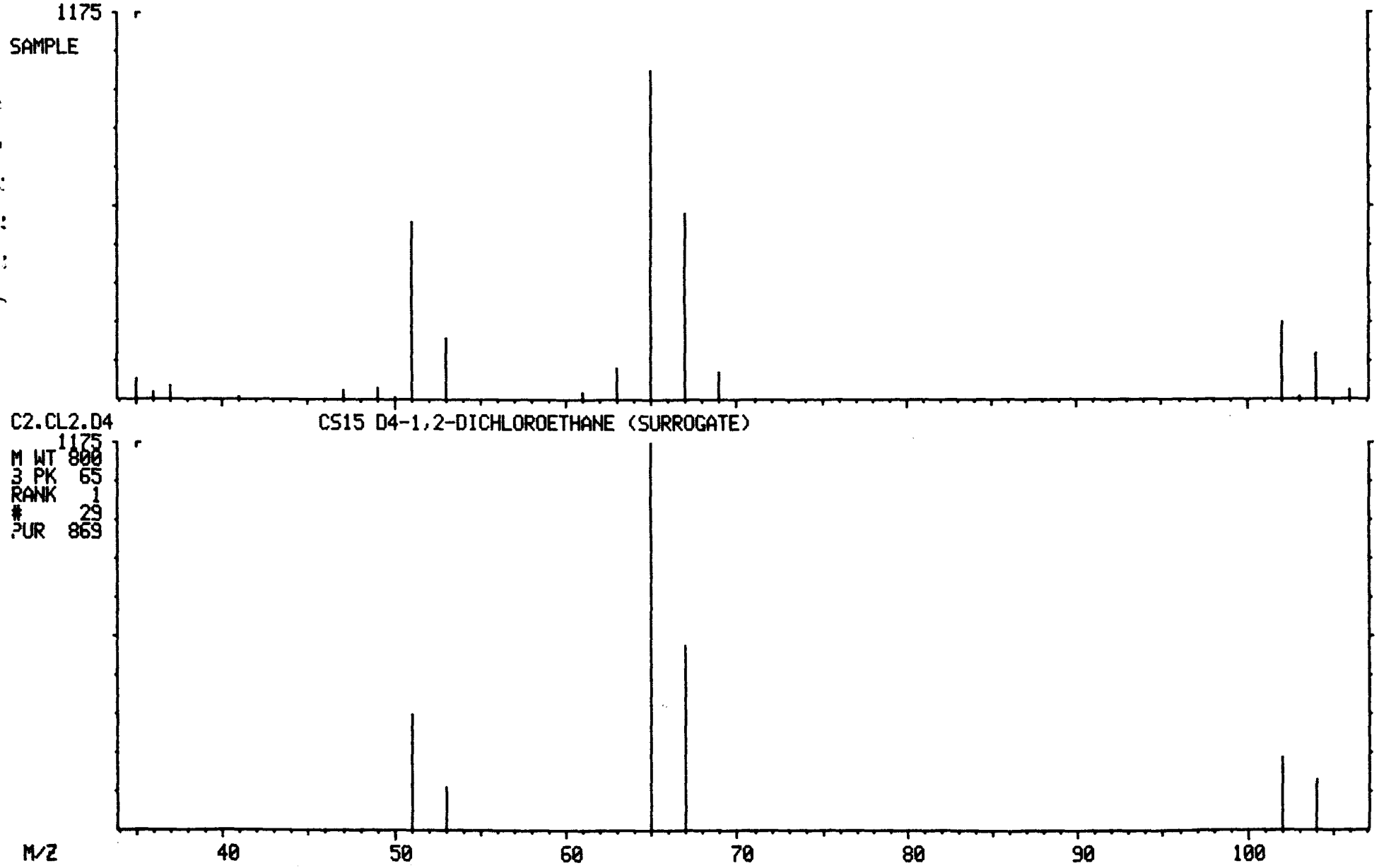
9222500329

LIBRARY SEARCH
04/03/91 12:51:00 + 4:42
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 # 353
CALI: A0403BK05 # 3

BASE M/Z: 65
RIC: 4503.

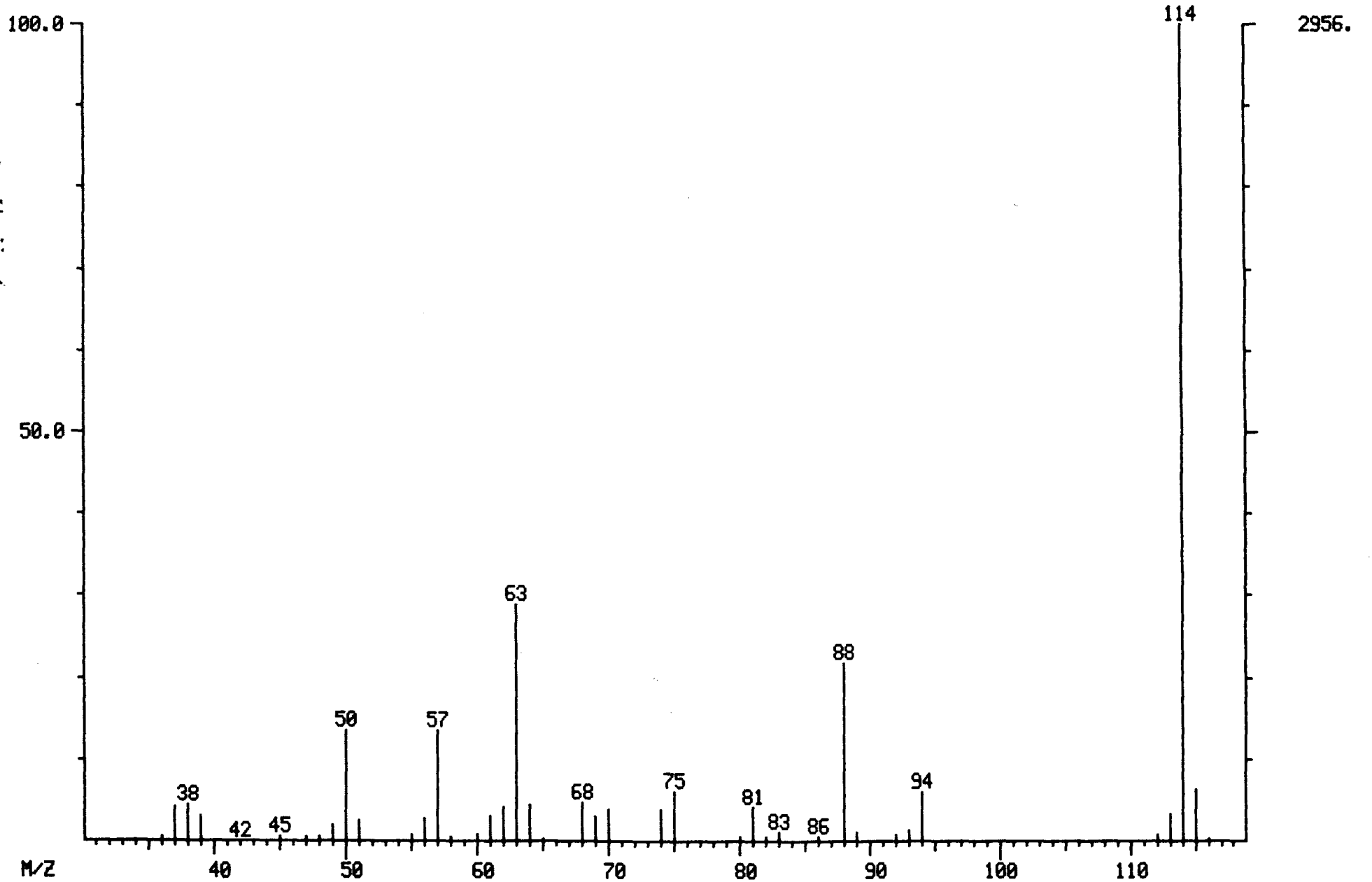
C00154



MASS SPECTRUM
04/03/91 12:51:00 + 5:39
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 #424
CALI: A0403BK05 #3

BASE M/Z: 114
RIC: 7776.



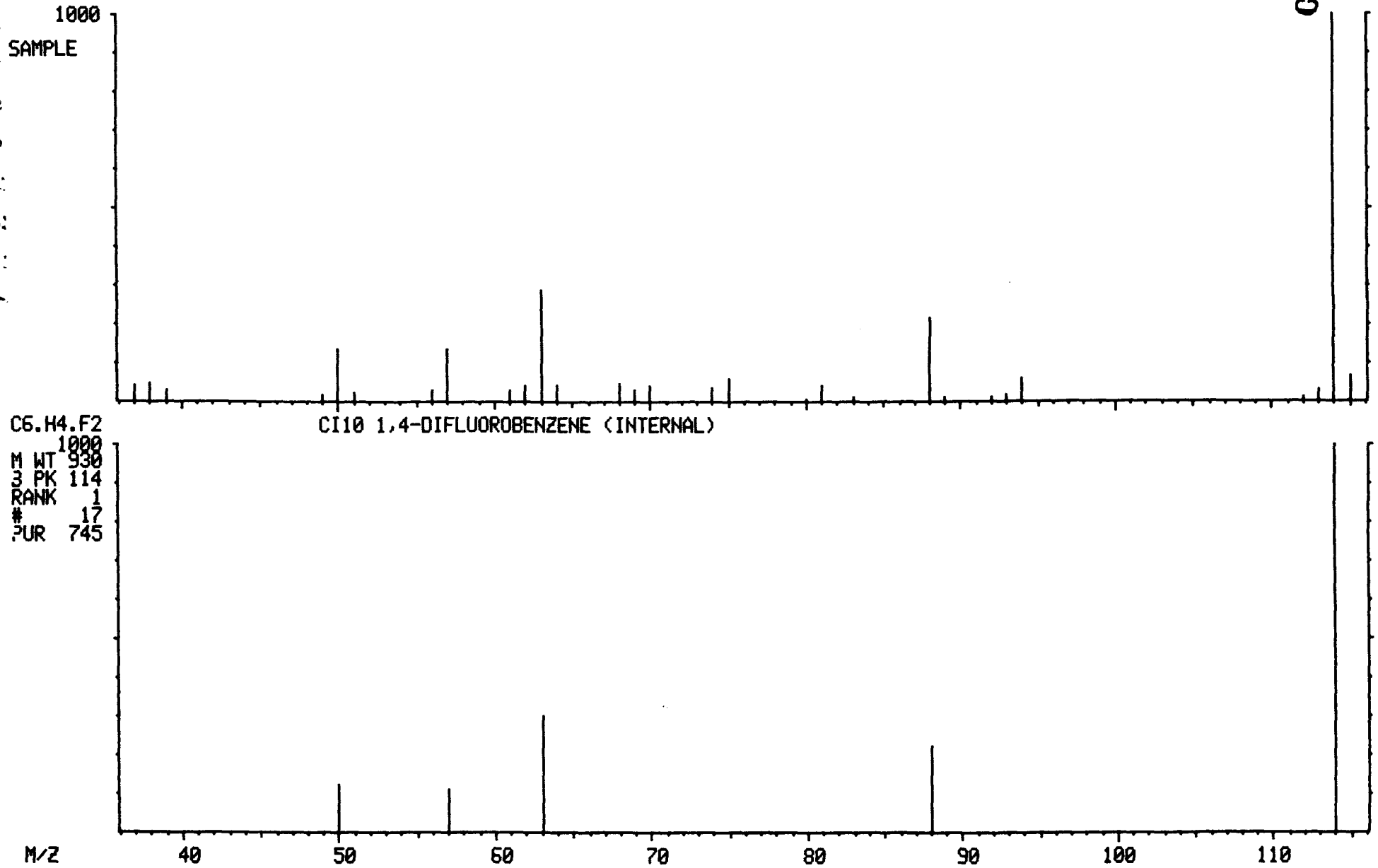
C001155

LIBRARY SEARCH
04/03/91 12:51:00 + 5:39
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 # 424
CALI: A0403BK05 # 3

BASE M/Z: 114
RIC: 7575.

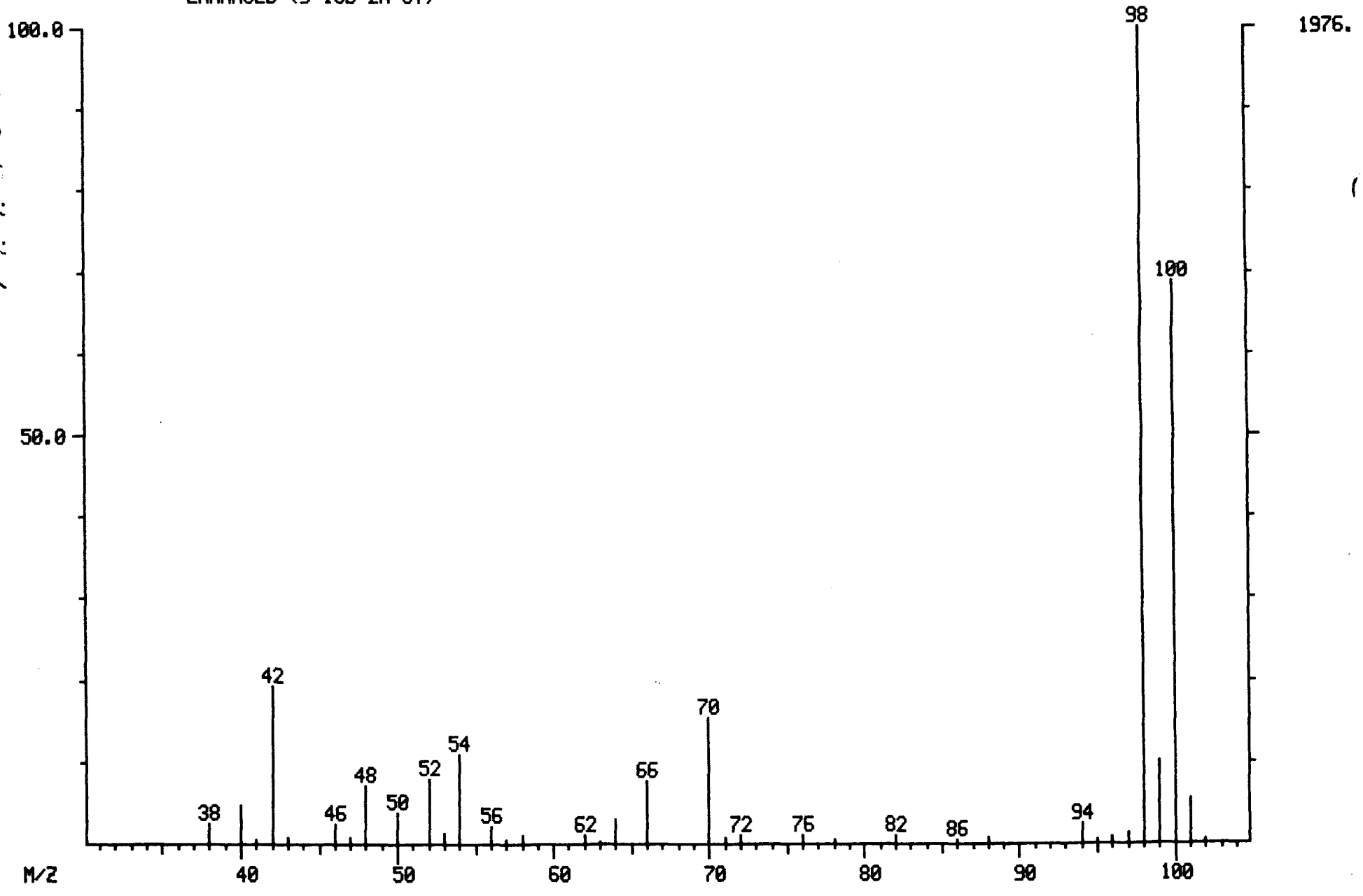
G00156



MASS SPECTRUM
04/03/91 12:51:00 + 10:07
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 #759
CALI: A0403BK05 #3

BASE M/Z: 98
RIC: 5752.



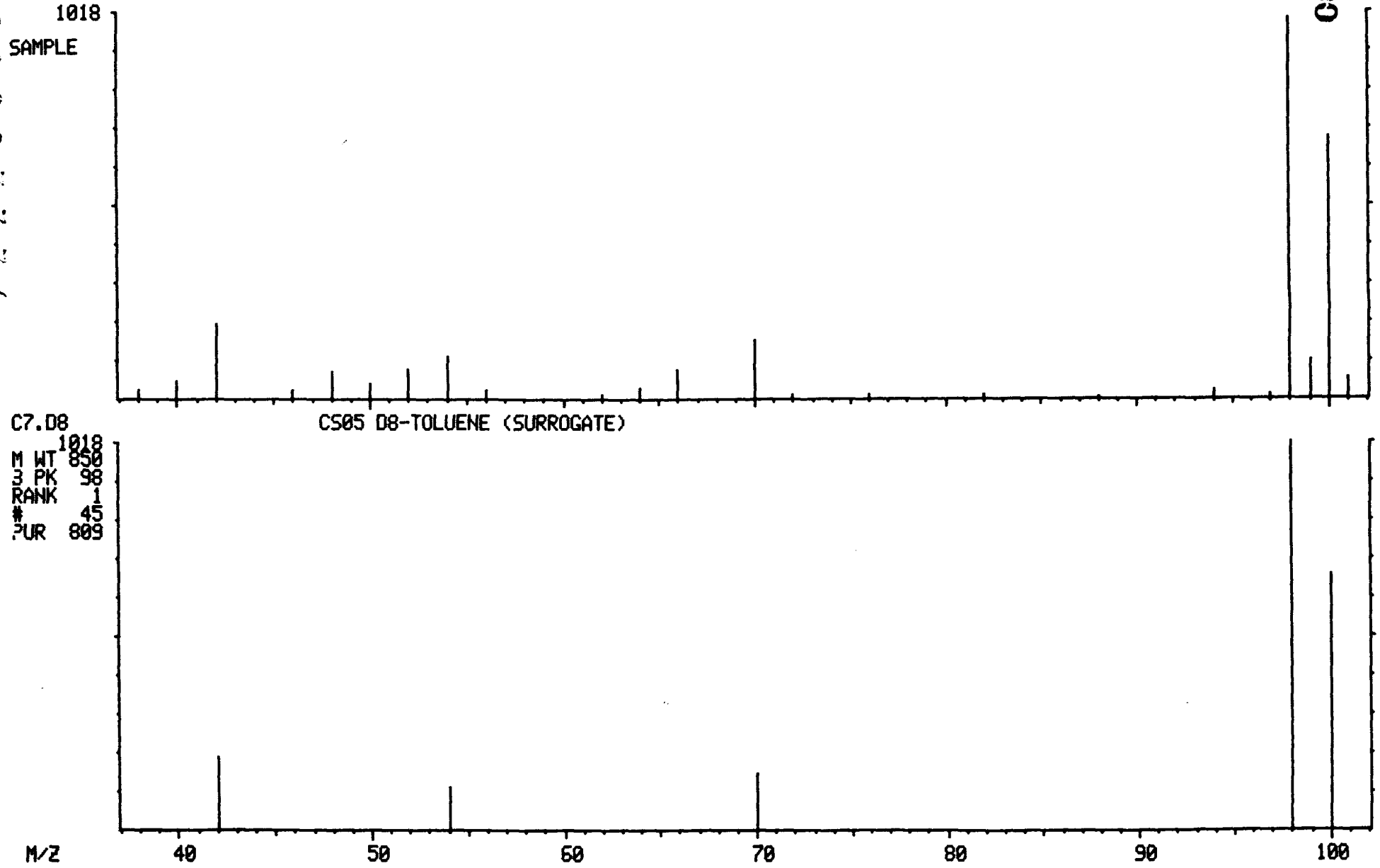
000157

LIBRARY SEARCH
04/03/91 12:51:00 + 10:07
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 # 759
CALI: A0403BK05 # 3

BASE M/Z: 98
RIC: 5567.

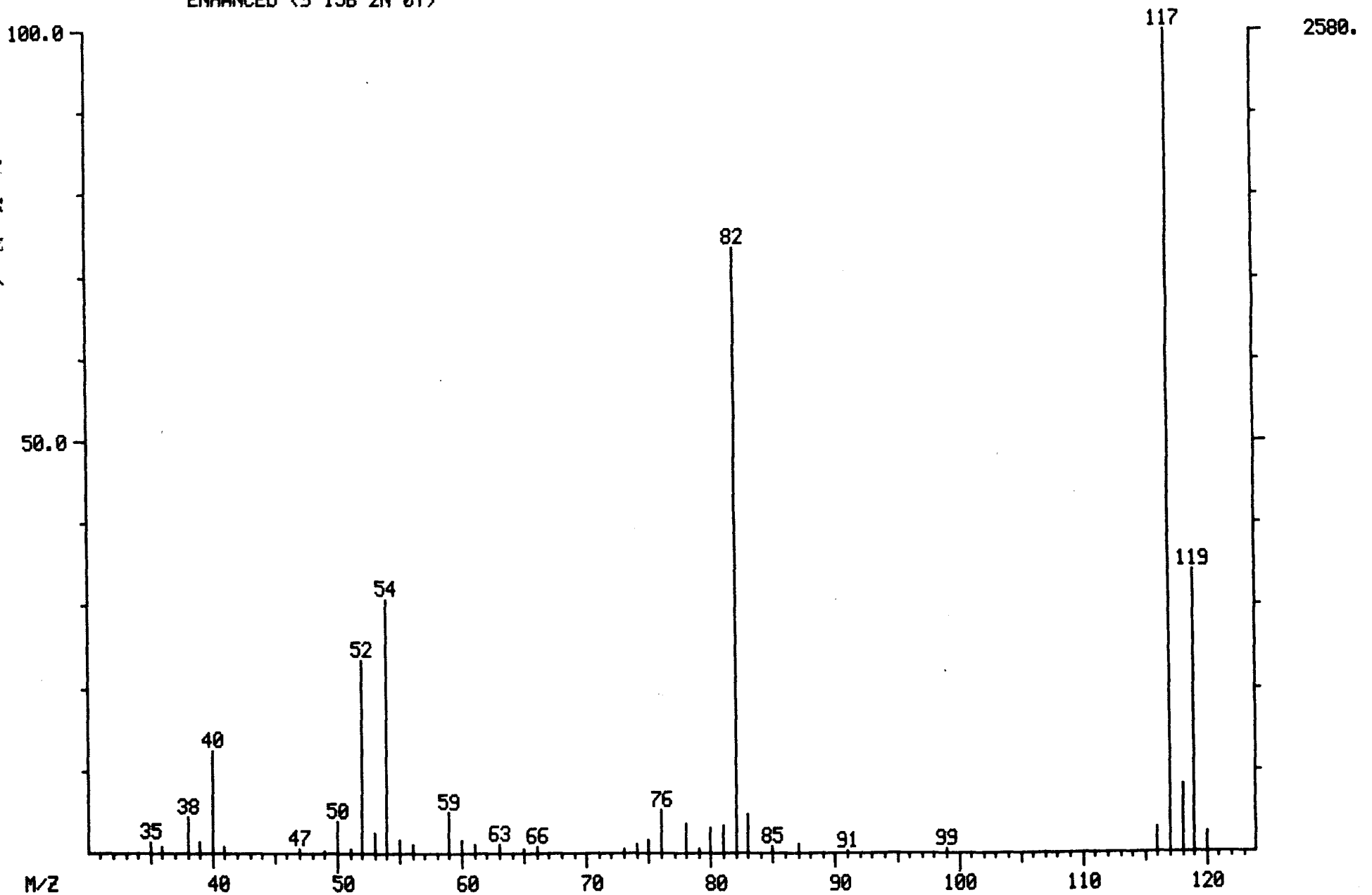
000158



MASS SPECTRUM
04/03/91 12:51:00 + 16:34
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 60 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 #1243
CALI: A0403BK05 #3

BASE M/Z: 117
RIC: 8896.

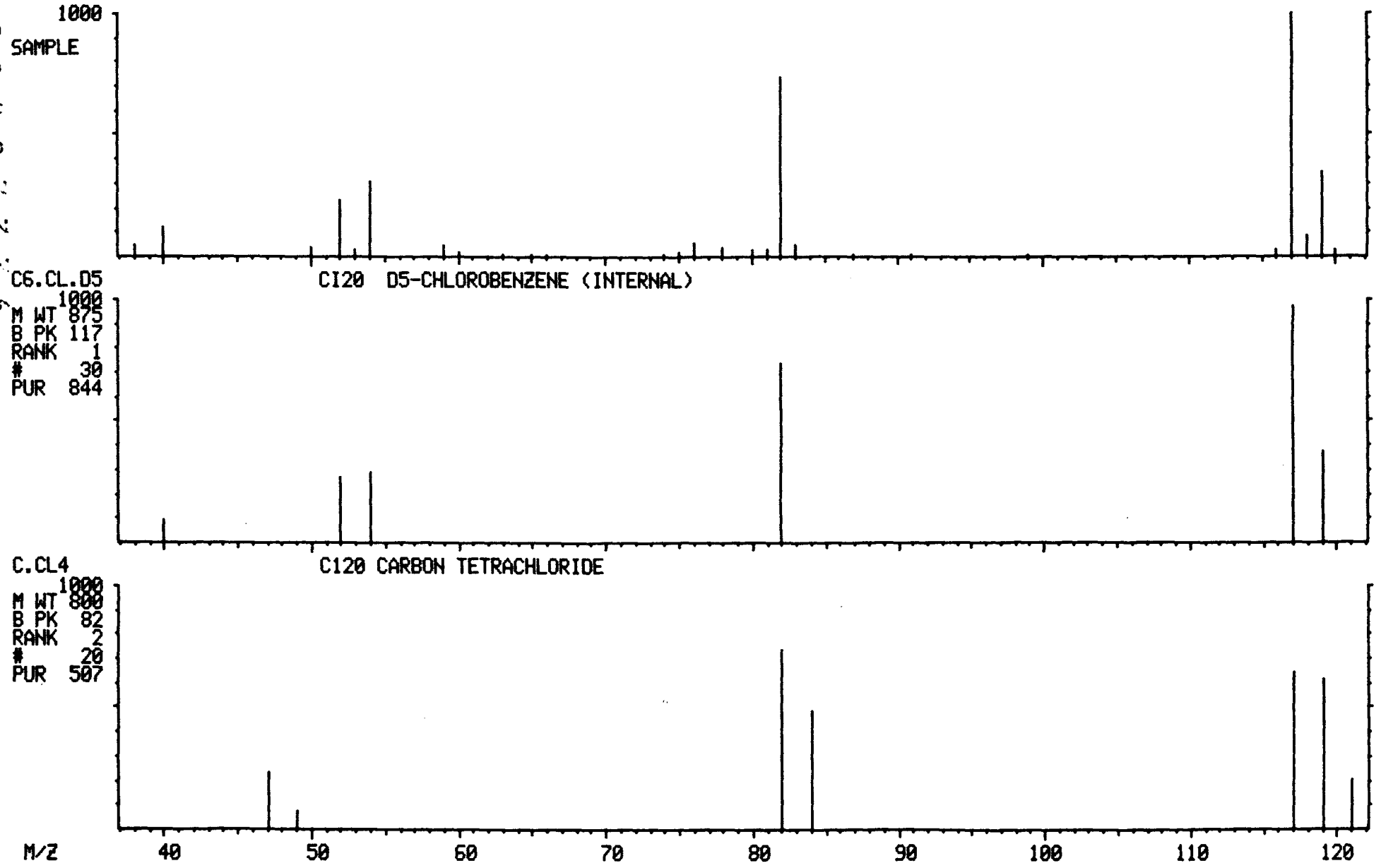


LIBRARY SEARCH
04/03/91 12:51:00 + 16:34
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 #1243
CALI: A0403BK05 # 3

BASE M/Z: 117
RIC: 8591.

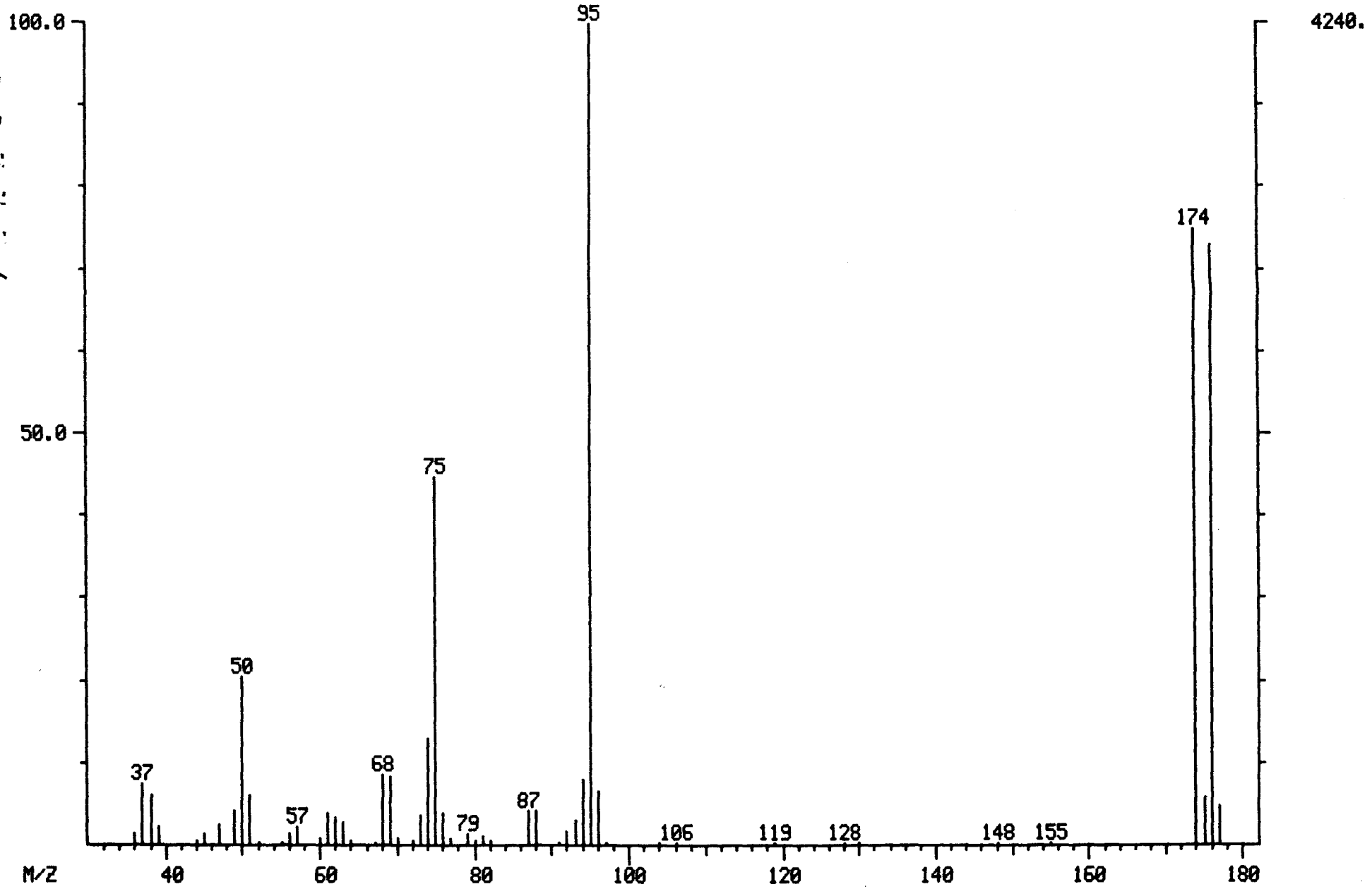
C00160



MASS SPECTRUM
04/03/91 12:51:00 + 21:12
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 #1590
CALI: A0403BK05 #3

BASE M/Z: 95
RIC: 18848.

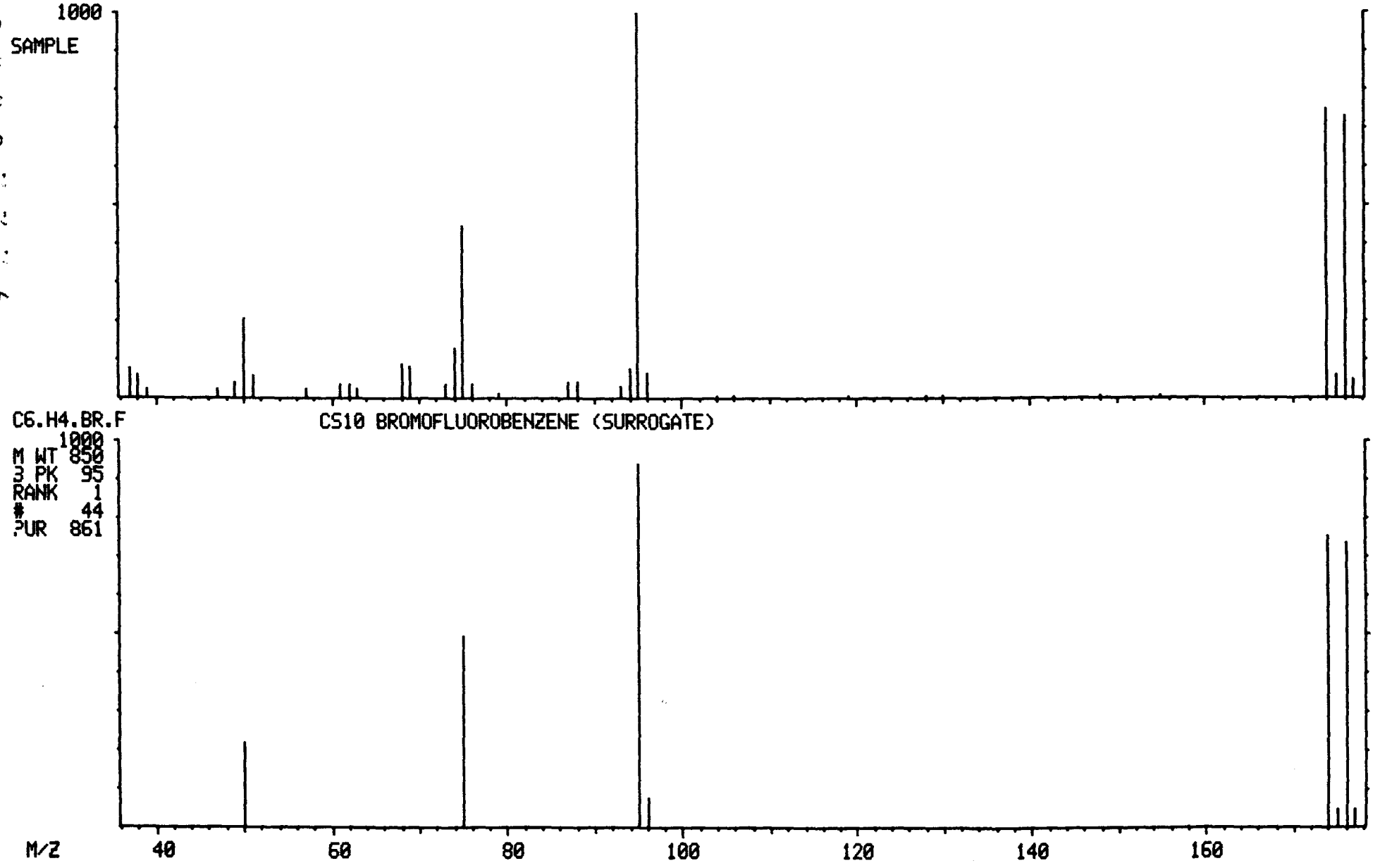


LIBRARY SEARCH
04/03/91 12:51:00 + 21:12
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 #1590
CALI: A0403BK05 # 3

BASE M/Z: 95
RIC: 18271.

000162

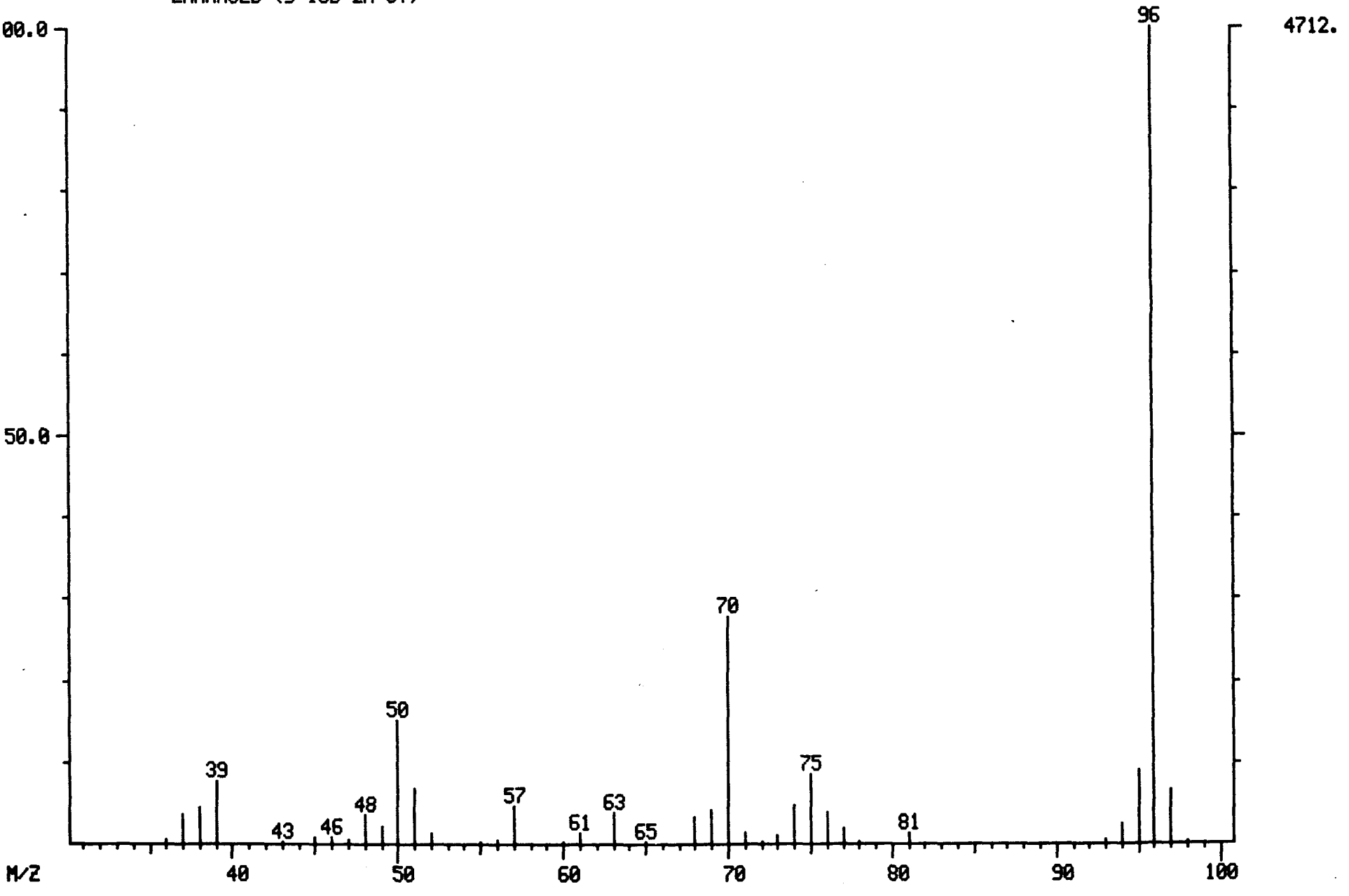


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/03/91 12:51:00 + 5:20
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 #400
CALI: A0403BK05 #3

BASE M/Z: 96
RIC: 11200.

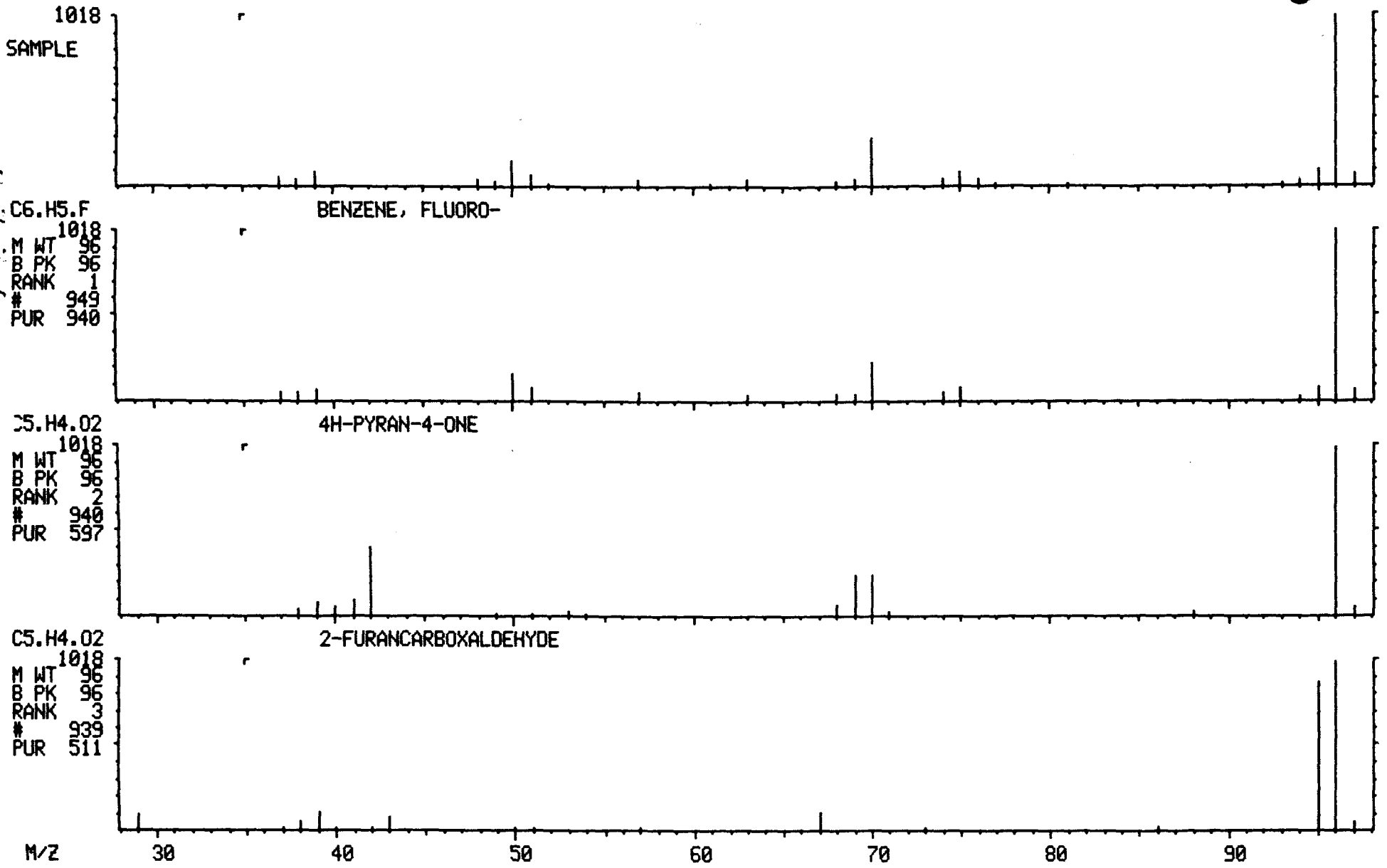


000164

LIBRARY SEARCH
04/03/91 12:51:00 + 5:20
SAMPLE: 90898, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK05 # 400
CALI: A0403BK05 # 3

BASE M/Z: 96
RIC: 10831.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKTB

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190899

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0402BK04

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

92226003 2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKTB

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190899

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0402BK04

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/02/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

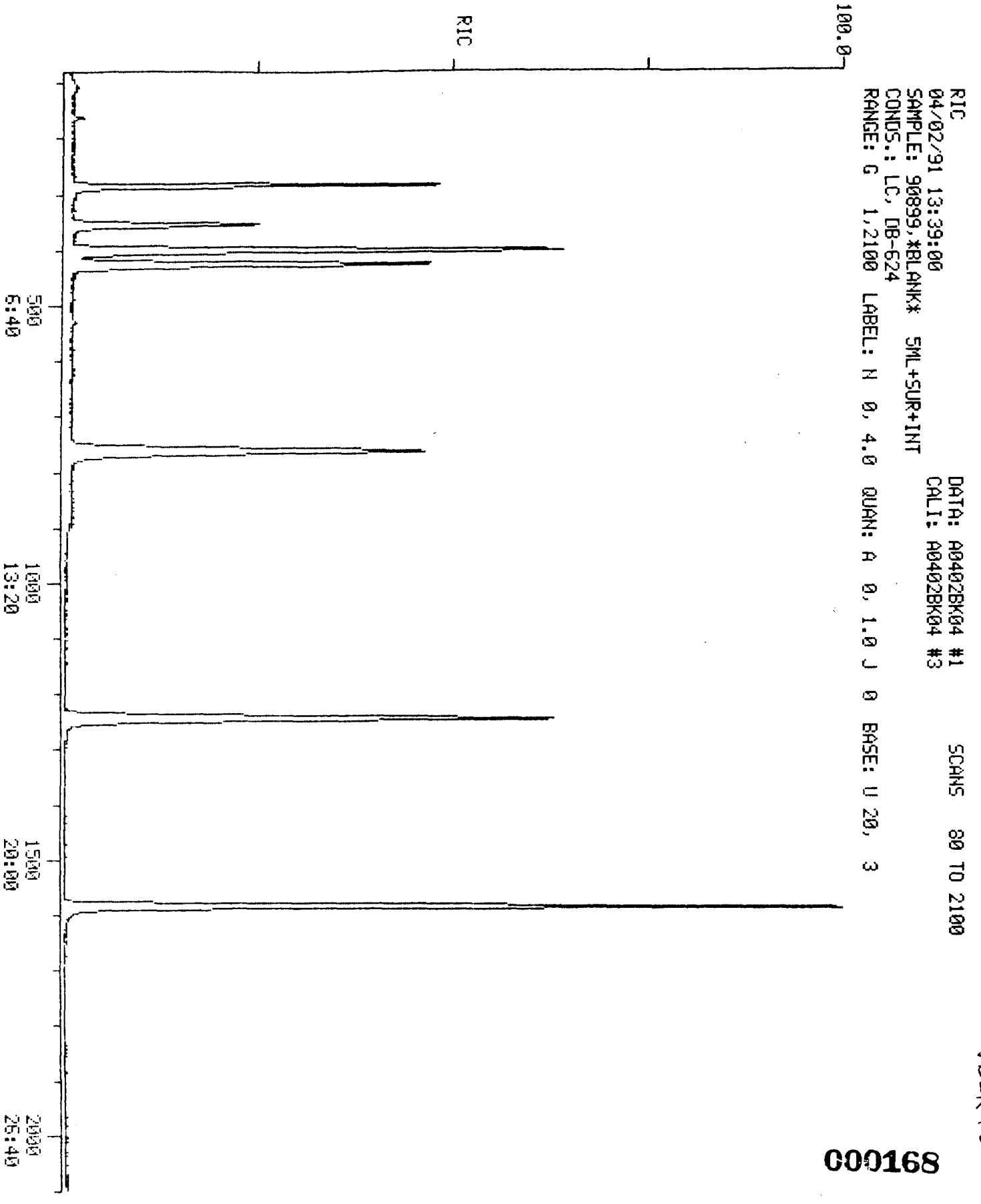
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9222606043

000167

9 2 2 2 6 0 0 0 3 4 4

TCA FINISHED, 10 FOUND
FINISHED AT: 4/02/91 16:32:59



VBLK TB

000168

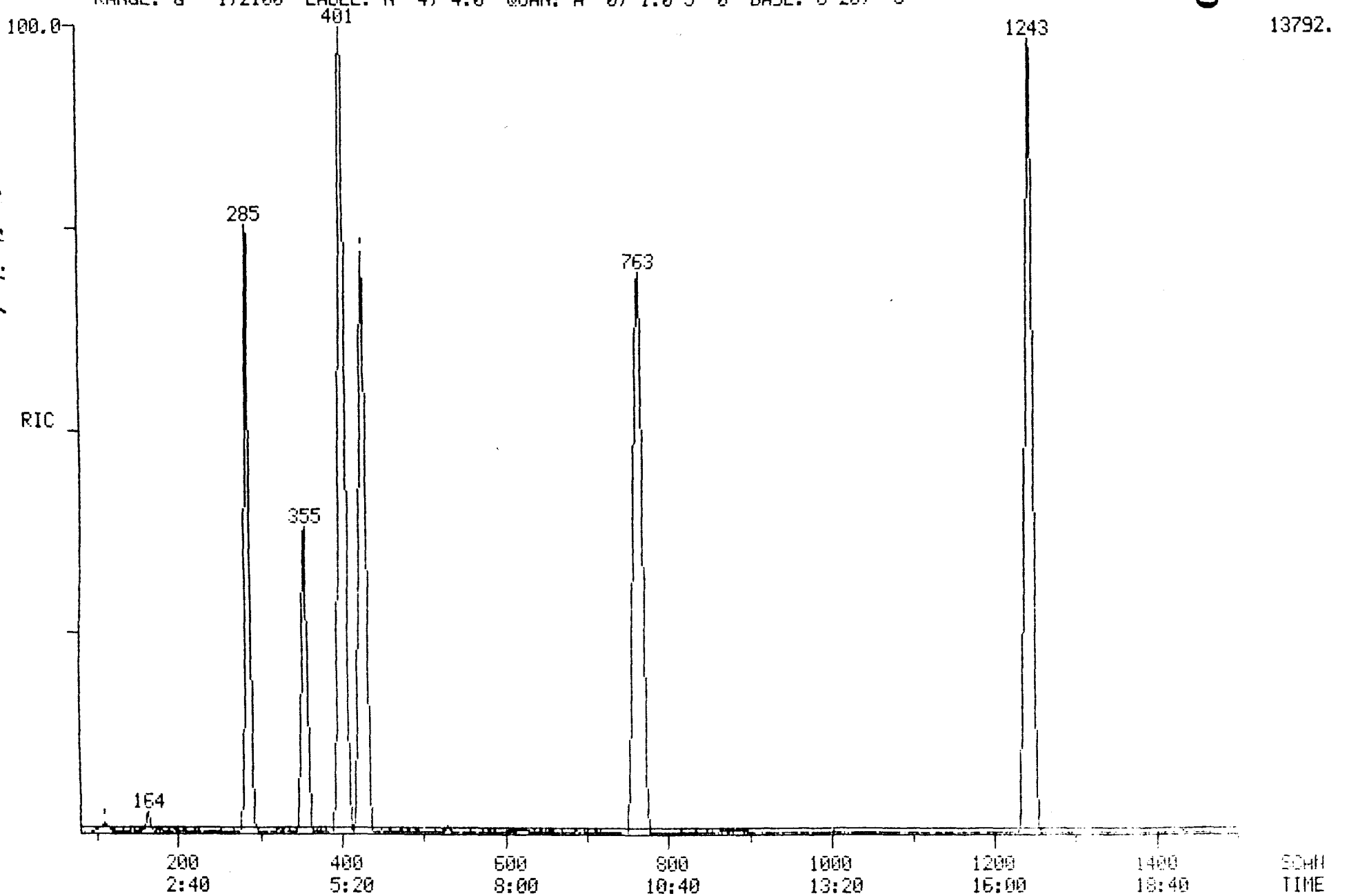
2211

SCA
TIM

RIC
04/02/91 13:39:00
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

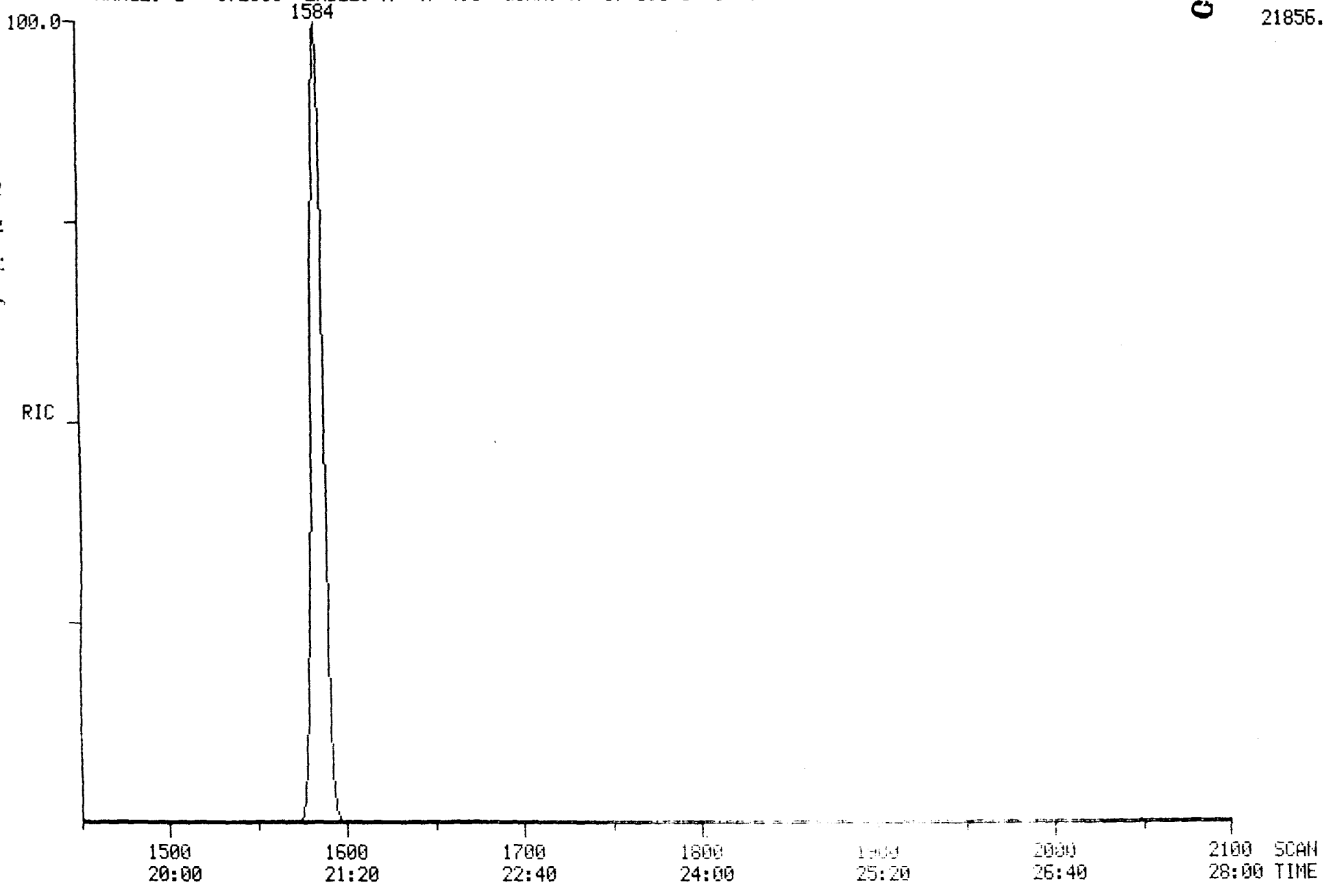
DATA: A0402BK04 #1 SCANS 80 TO 1500
CALI: A0402BK04 #3

000169



RIC
04/02/91 13:39:00
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0402BK04 #1 SCANS 1450 TO 2100
CALI: A0402BK04 #3



4/2/91 13:39:17 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 13:39:00 + 0:02
Sample: 90899,*BLANK* 5ML+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:A0402BK04
Free sectors: 4764
Instrument: 5100
Analyst: BK

Acquiring
Scan: 2 of 2100
Weight: 0.000
Acct. No:

*** GC descriptor: LC ***

GC temperature: 32 DegC
Elapsed time : 0: 7 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	32- 32	-	5.0	5.0
2	32- 52	2.0	10.0	15.0
3	52-130	5.0	15.5	30.5
4	130-130	-	0.5	31.0

Valve times (minutes)

	Open	Close
Sweep/Split	31.0	0.0
Divert	31.0	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 450 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.175
Samp int (ms): 0.175

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	130.00	128.00
Resolution (low)	130.00	128.00
Ion energy	6.67	-4.00
Ion programming	4.08	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	2.00	not used

Electron multiplier voltage: -1659.
Electrometer Range: 10 ^-7

000171

4/2/91 14:07:18
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	4.4	1680.0	0.3	17887.	9.	11.

92226000348

PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 16:28:27
DATA FILE: A0402BK04
REFERENCE: CLWTAB11
NAME LIST: CLWDRIVER INITIALIZATION OPTION: 10 PROCESSING OPTION: 3
REPORT: CLWRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	4	2	59	CLWRT1/CLWTC1
1	1	1	0	12	3	1	6	CLWRT2/CLWTC2
1	1	1	0	17	3	1	87	CLWRT3/CLWTC3

44 COMPOUNDS PROCESSED, 10 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------- >										
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CW	1	282	285	285	.	1	974	.	128	285	.	1
2	CW	2	-89	92	.	.	.	.	.	50	.	.	.
3	CW	3	-98	101	.	.	.	.	.	94	.	.	.
4	CW	4	-90	93	.	.	.	.	.	62	.	.	.
5	CW	5	-99	102	.	.	.	.	.	64	.	.	.
6	CW	6	161	164	164	.	1	997	.	84	164	.	1
7	CW	7	142	145	144	-1	2	982	.	43	144	.	1
8	CW	8	-145	148	.	.	.	.	.	76	.	.	.
9	CW	9	-133	136	.	.	.	.	.	96	.	.	.
10	CW	10	-209	212	.	.	.	.	.	63	.	.	.
11	CW	12	-296	299	.	.	.	.	.	83	.	.	.
12	CW	13	-307	310	.	.	.	.	.	97	.	.	.
13	CW	14	-105	108	108	.	1	642	.	101	108	.	1
14	CW	15	-179	182	.	.	.	.	.	96	.	.	.
15	CW	16	-260	263	.	.	.	.	.	96	.	.	.
16	CW	17	422	427	427	.	1	993	.	114	427	.	1
17	CW	18	-361	365	.	.	.	.	.	62	.	.	.
18	CW	19	269	272	272	.	1	894	.	72	272	.	1
19	CW	20	-327	331	.	.	.	.	.	117	.	.	.
20	CW	21	-218	220	.	.	.	.	.	43	216	.	3
21	CW	22	-573	580	.	.	.	.	.	83	.	.	.
22	CW	23	-498	504	.	.	.	.	.	63	.	.	.
23	CW	24	-872	883	.	.	.	.	.	75	.	.	.
24	CW	25	-457	462	.	.	.	.	.	130	.	.	.
25	CW	27	-354	358	.	.	.	.	.	78	.	.	.
26	CW	28	-671	679	.	.	.	.	.	106	.	.	.
27	CW	29	351	355	355	.	1	980	.	65	355	.	1
28	CW	30	1241	1243	1243	.	1	997	.	117	1243	.	1
29	CW	26	-1061	1065	.	.	.	.	.	129	.	.	.
30	CW	31	-939	944	.	.	.	.	.	97	.	.	.
31	CW	32	-696	702	.	.	.	.	.	75	.	.	.
32	CW	33	-1065	1069	.	.	.	.	.	43	1064	.	1
33	CW	34	-769	775	.	.	.	.	.	43	775	.	1
34	CW	35	-942	947	.	.	.	.	.	164	.	.	.
35	CW	36	1658	1658	.	.	.	.	.	83	.	.	.
36	CW	37	-777	783	.	.	.	.	.	91	782	.	1
37	CW	38	-1249	1252	.	.	.	.	.	112	1250	.	1
38	CW	39	-1300	1302	.	.	.	.	.	106	.	.	.
39	CW	40	-1456	1457	.	.	.	.	.	104	.	.	.
40	CW	41	-1339	1341	.	.	.	.	.	106	.	.	.
41	CW	42	-1445	1446	.	.	.	.	.	106	.	.	.
42	CW	43	-1494	1495	.	.	.	.	.	173	.	.	.
43	CW	44	1583	1584	1584	.	1	989	.	95	1584	.	1
44	CW	45	757	763	763	.	1	996	.	98	763	.	1

000173

Quantitation Report File: A0402BK04

Data: A0402BK04.TI
04/02/91 13:39:00
Sample: 90899,*BLANK* 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	285	3:48	1	1.000	A BB	7219.	50.000 UG/L	10.95
2	NOT	FOUND							
3	NOT	FOUND							
4	NOT	FOUND							
5	NOT	FOUND							
6	84	164	2:11	1	0.575	A BB	273.	~~1.260 UG/L~~	0.28
7	43	144	1:55	1	0.505	A VB	184.	~~2.506 UG/L~~	0.55
8	NOT	FOUND							
9	NOT	FOUND							
10	NOT	FOUND							
11	NOT	FOUND							
12	NOT	FOUND							
13	101	108	1:26	1	0.379	A BV	138.	~~1.897 UG/L~~	0.42
14	NOT	FOUND							
15	NOT	FOUND							
16	114	427	5:42	16	1.000	A BB	34120.	50.000 UG/L	10.95
17	NOT	FOUND							
18	72	272	3:38	16	0.637	A BB	12.	~~0.484 UG/L~~	0.11
19	NOT	FOUND							
20	43	216	2:53	16	0.506	A*BB	450.	~~1.162 UG/L~~	0.25
21	NOT	FOUND							
22	NOT	FOUND							
23	NOT	FOUND							
24	NOT	FOUND							
25	NOT	FOUND							
26	NOT	FOUND							
27	65	355	4:44	16	0.831	A BB	12773.	98.968 %	21.68
28	117	1243	16:34	28	1.000	A BB	38305.	50.000 UG/L	10.95
29	NOT	FOUND							
30	NOT	FOUND							
31	NOT	FOUND							
32	43	1064	14:11	28	0.856	A BB	74.	~~0.305 UG/L~~	0.07
33	43	775	10:20	28	0.623	A VB	97.	~~0.317 UG/L~~	0.07
34	NOT	FOUND							
35	NOT	FOUND							
36	91	782	10:26	28	0.629	A BB	127.	~~0.148 UG/L~~	0.03
37	112	1250	16:40	28	1.006	A BB	236.	~~0.307 UG/L~~	0.07
38	NOT	FOUND							
39	NOT	FOUND							
40	NOT	FOUND							
41	NOT	FOUND							
42	NOT	FOUND							
43	95	1584	21:07	28	1.274	A BB	39363.	98.280 %	21.52
44	98	763	10:10	28	0.614	A BB	40603.	101.141 %	22.15

Quantitation Report File: A0402BK04A

Data: A0402BK04.TI
04/02/91 13:39:00
Sample: 90899,*BLANK* 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	401	5:21	1	1.000	A BB	129448.	66.200	*100.

9 2 2 6 0 0 0 3 5 2

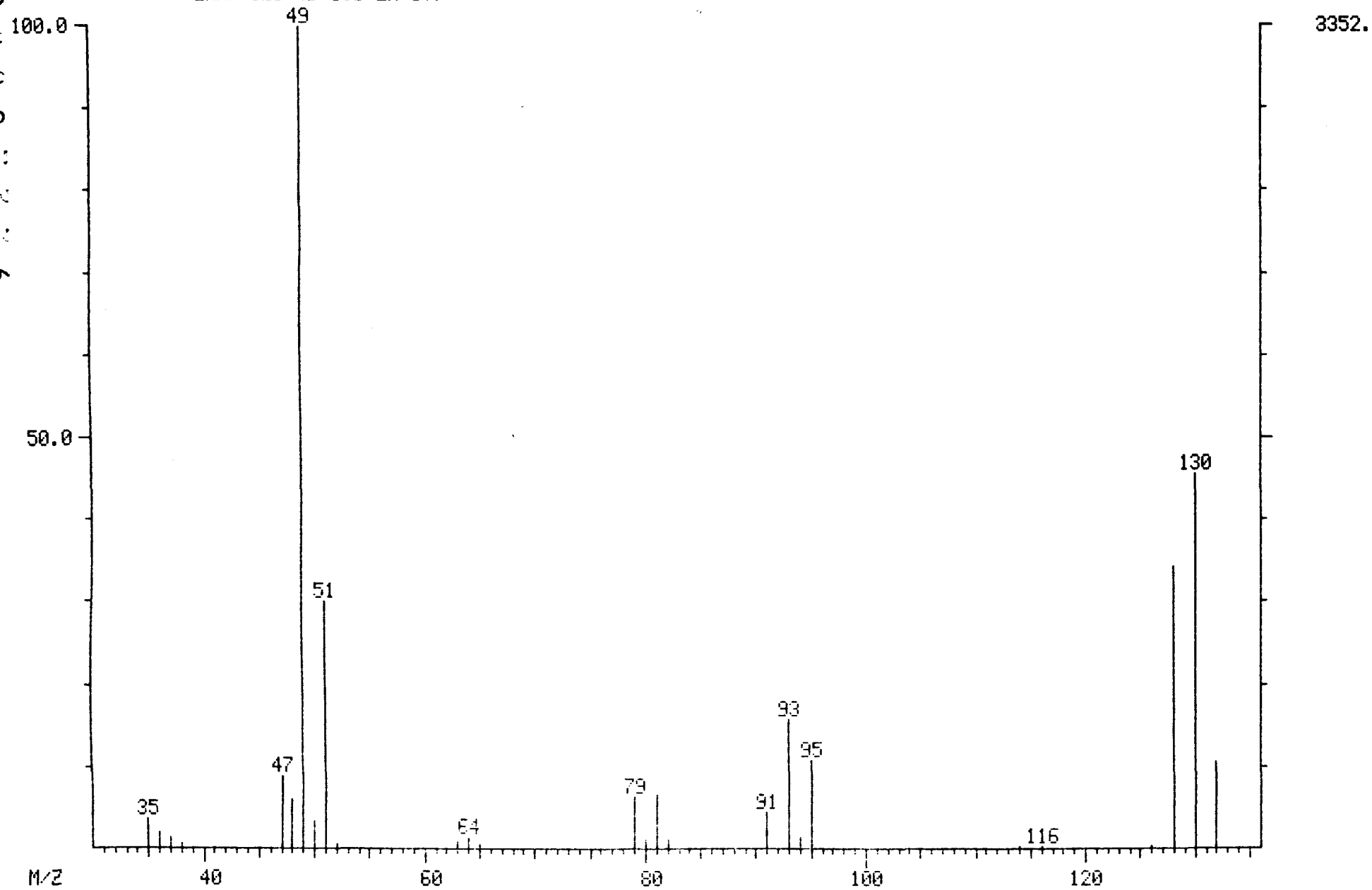
9 2 2 2 6 0 0 0 3 5 3

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/02/91 13:39:00 + 3:48
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 #285
CALI: A0402BK04 #3

BASE M/Z: 49
RIC: 10032.



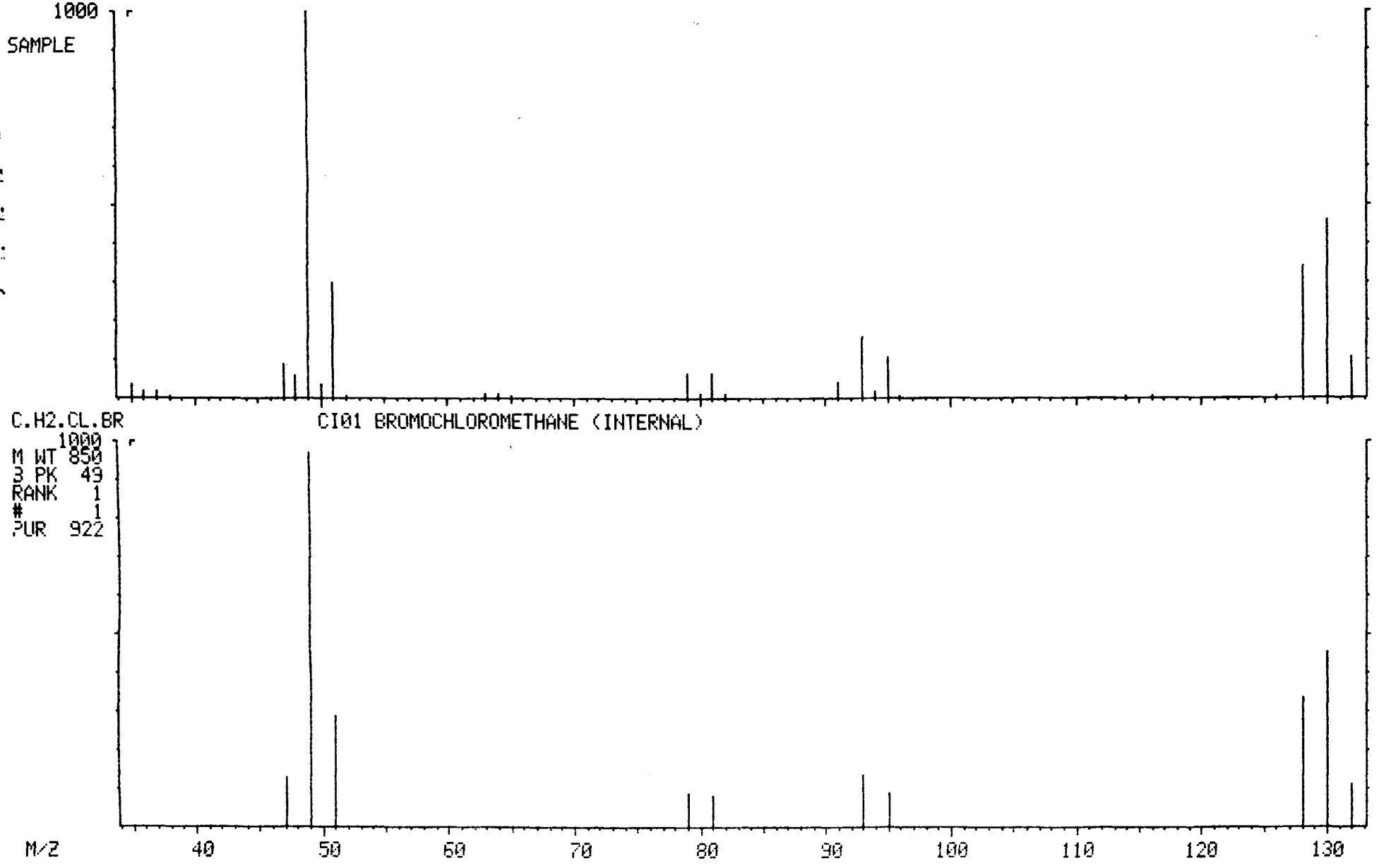
000178

LIBRARY SEARCH
04/02/91 13:39:00 + 3:48
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 # 285
CALI: A0402BK04 # 3

BASE M/Z: 49
RIC: 10015.

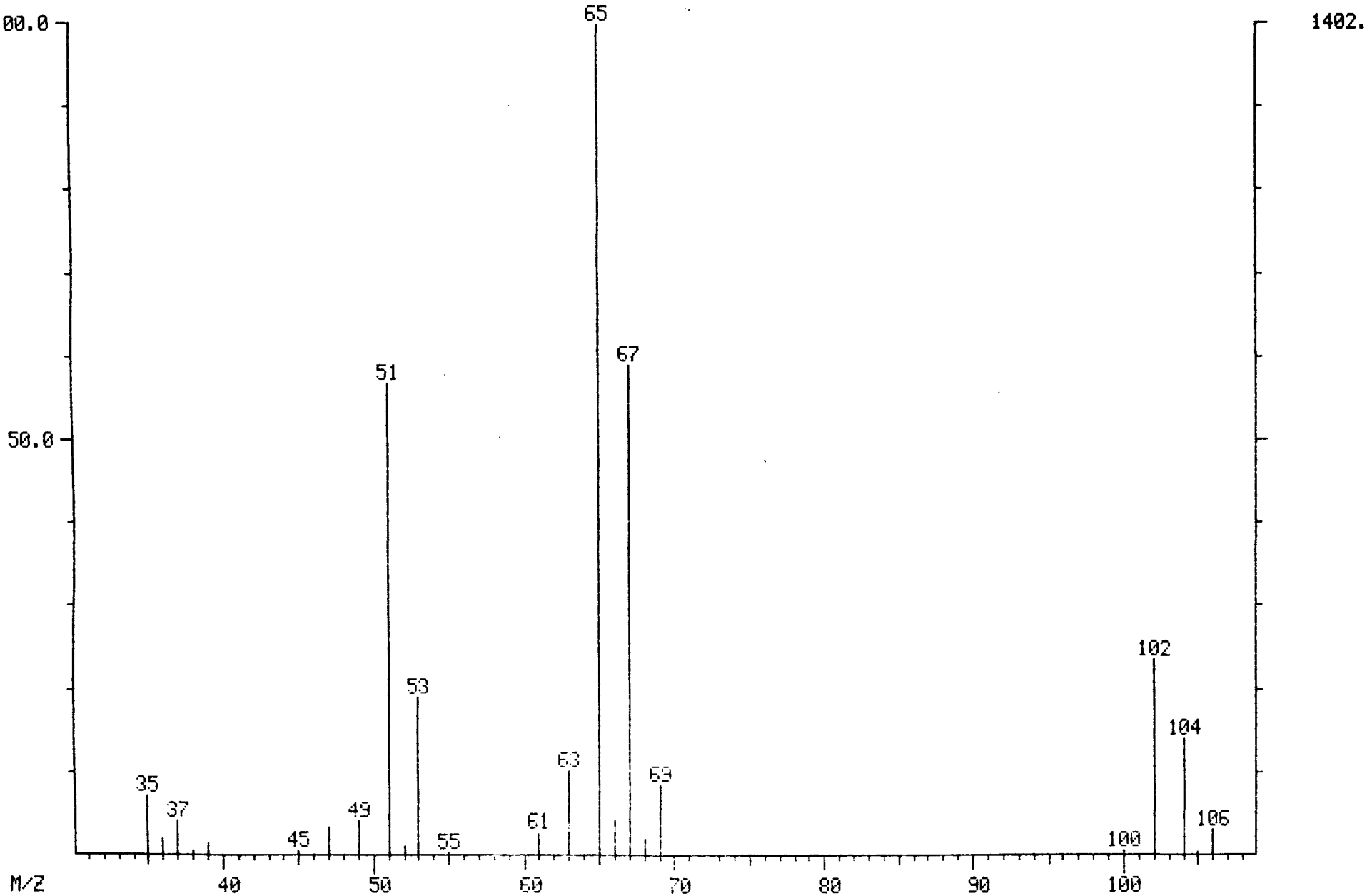
000179



MASS SPECTRUM
04/02/91 13:39:00 + 4:44
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 #355
CALI: A0402BK04 #3

BASE M/Z: 65
RIC: 4632.



9 2 2 2 6 0 0 0 3 5 6

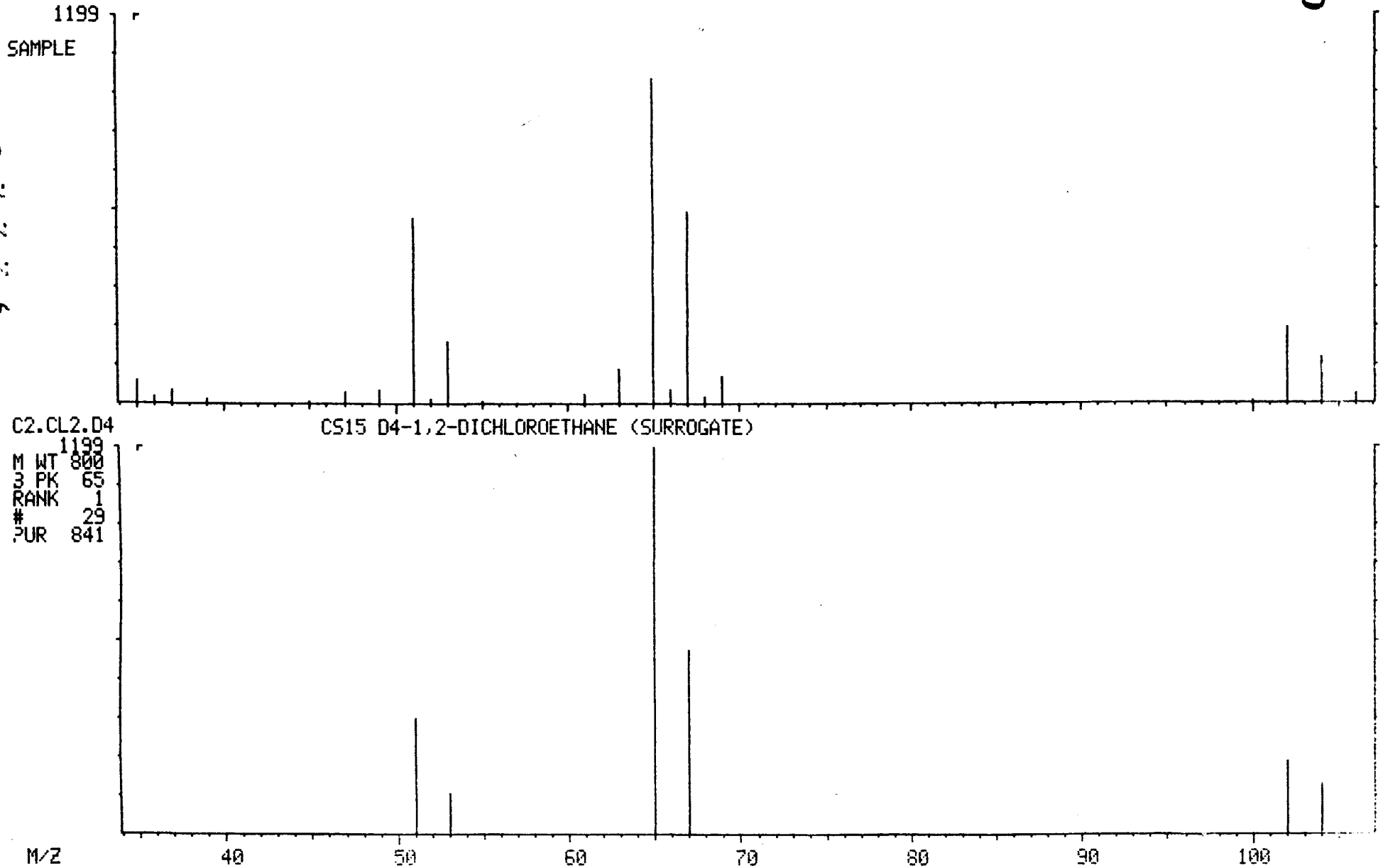
000180

LIBRARY SEARCH
04/02/91 13:39:00 + 4:44
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 # 355
CALI: A0402BK04 # 3

BASE M/Z: 65
RIC: 4615.

000181

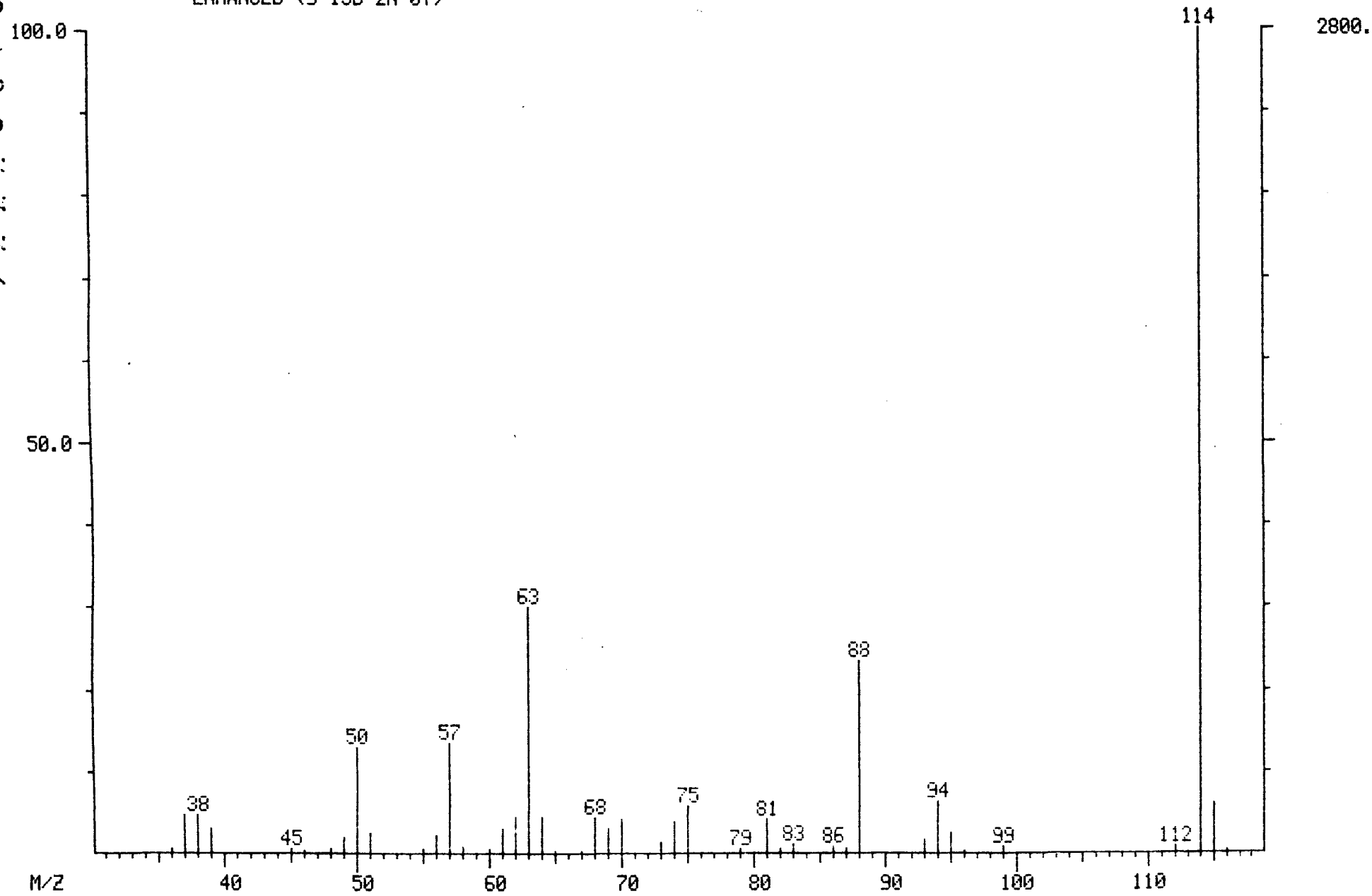


MASS SPECTRUM
04/02/91 13:39:00 + 5:42
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 #427
CALI: A0402BK04 #3

BASE M/Z: 114
RIC: 7440.

000182



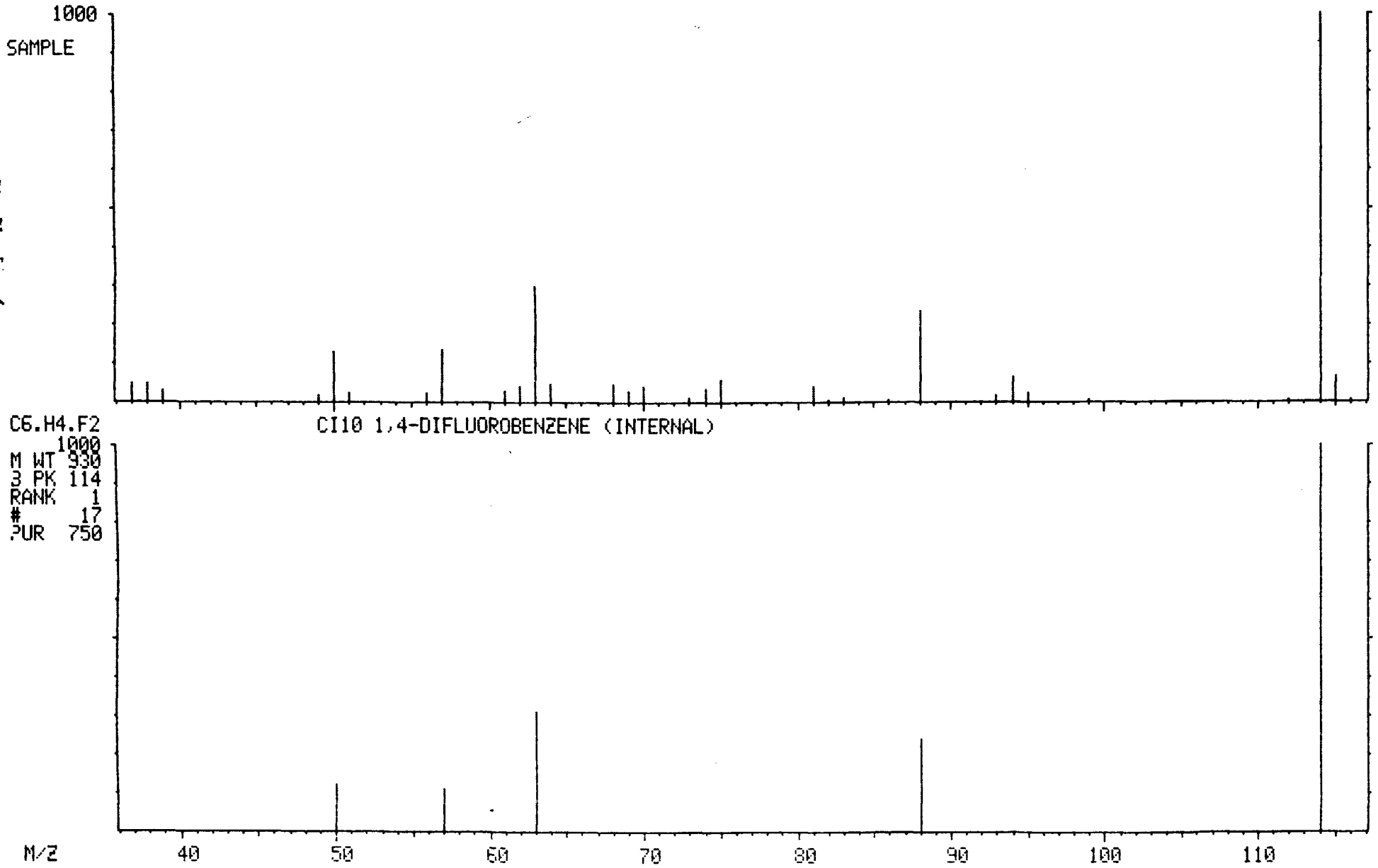
LIBRARY SEARCH
04/02/91 13:39:00 + 5:42
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 # 427
CALI: A0402BK04 # 3

BASE M/Z: 114
RIC: 7271.

000183

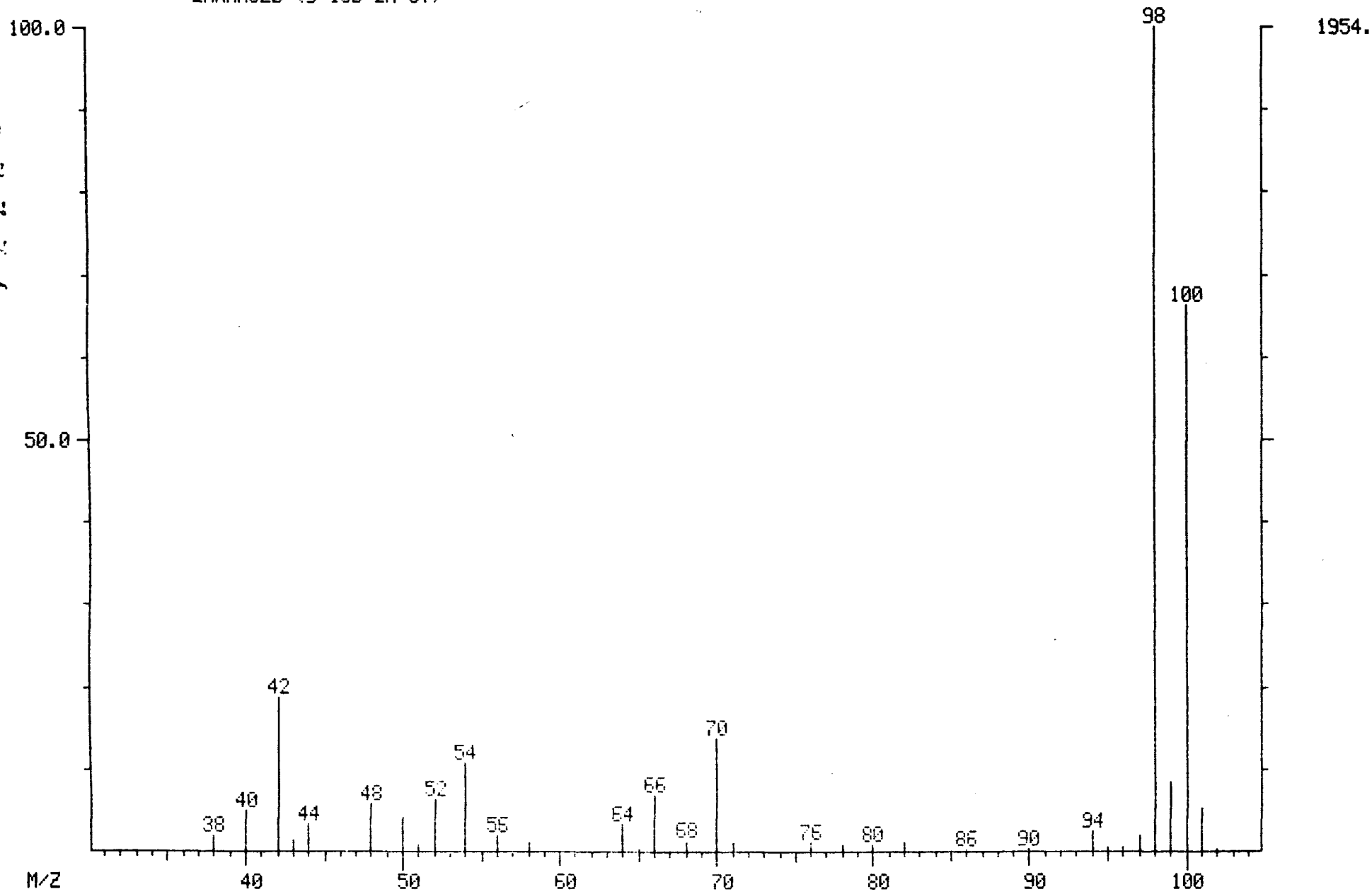
9 2 2 2 6 0 0 0 3 5 9



MASS SPECTRUM
04/02/91 13:39:00 + 10:10
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 #763
CALI: A0402BK04 #3

BASE M/Z: 98
RIC: 5464.



9 2 2 2 6 0 0 0 3 6 0

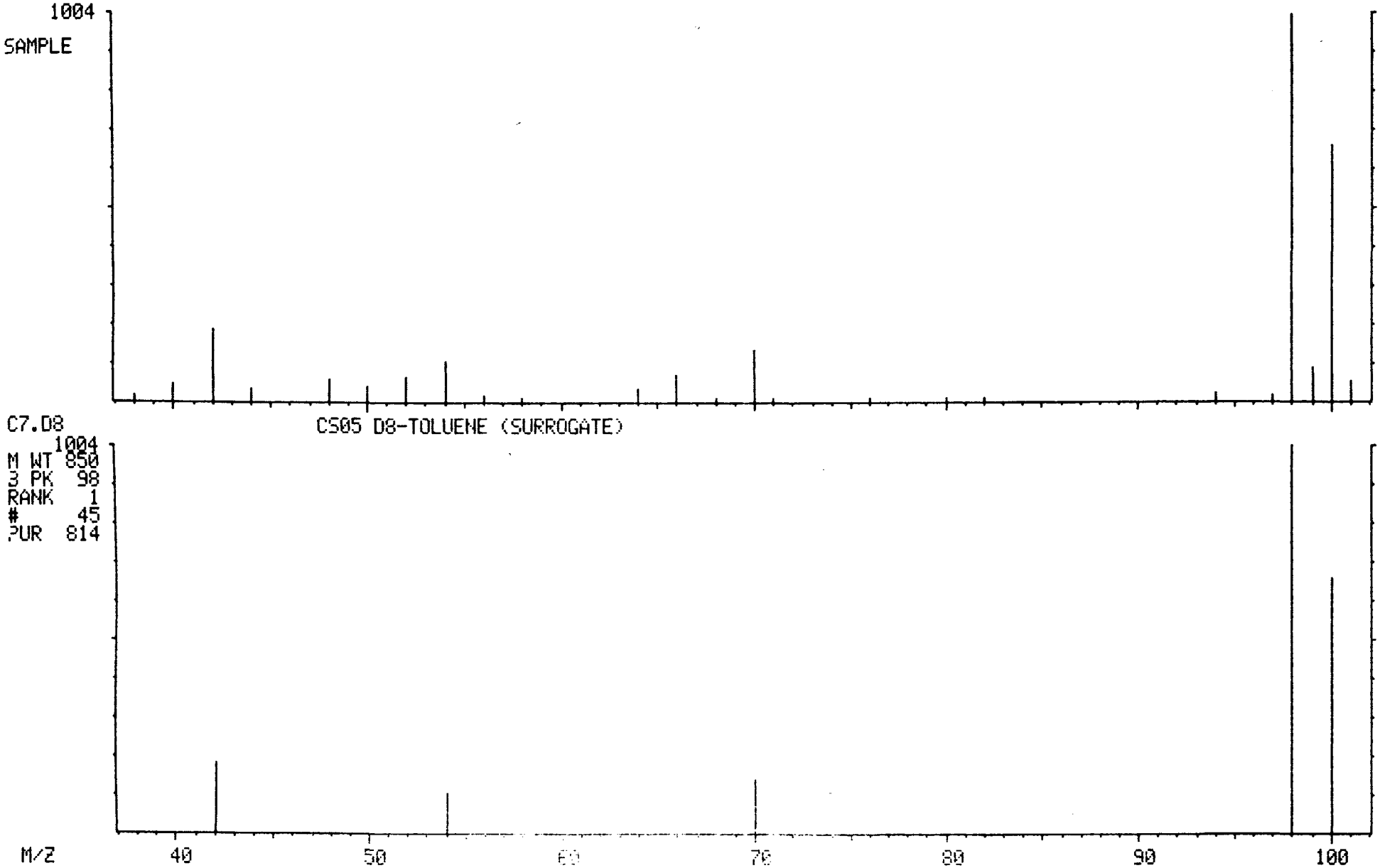
000184

LIBRARY SEARCH
04/02/91 13:39:00 + 10:10
SAMPLE: 90899.*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 # 763
CALI: A0402BK04 # 3

BASE M/Z: 98
RIC: 5351.

000185

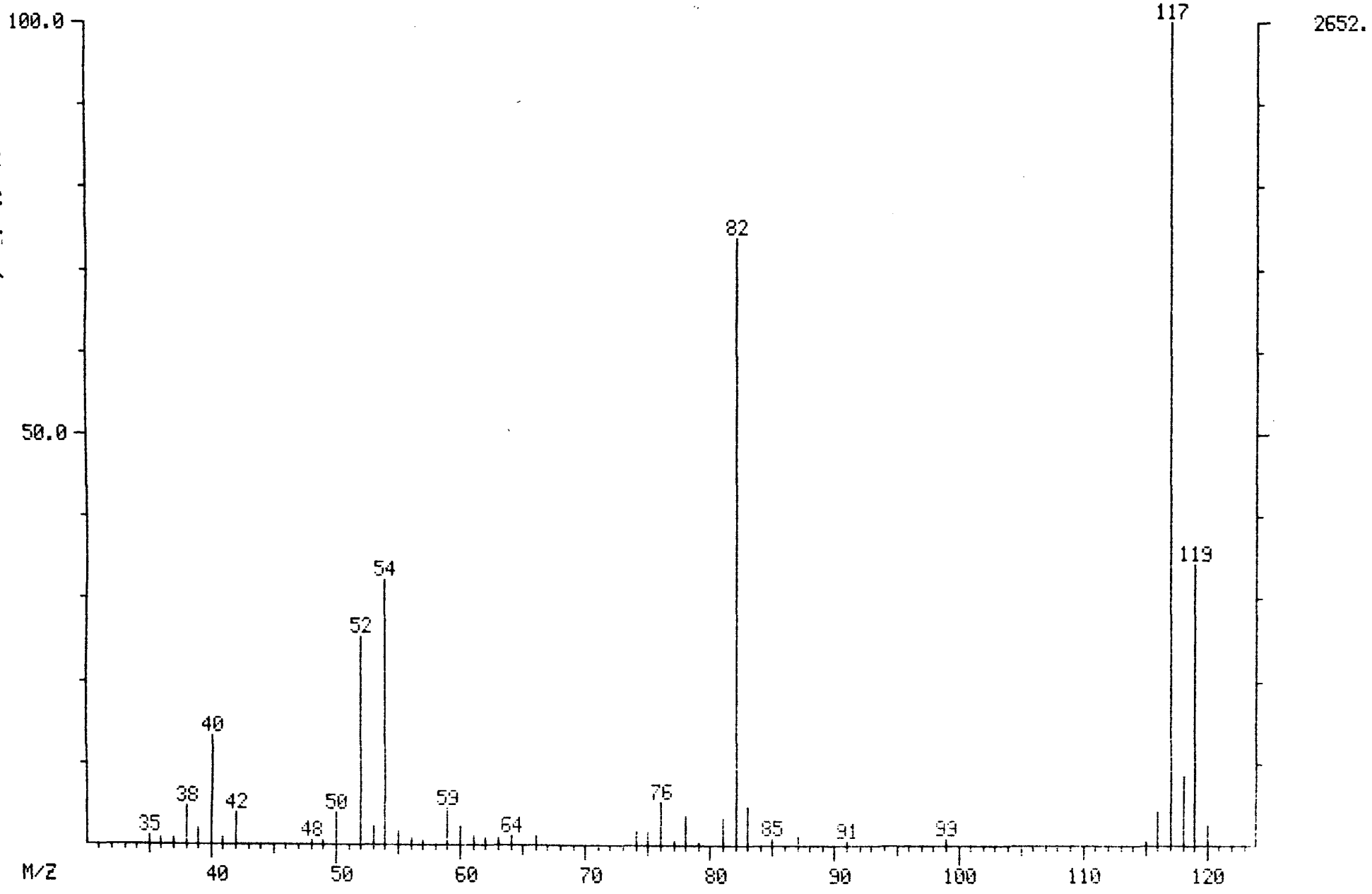


MASS SPECTRUM
04/02/91 13:39:00 + 16:34
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 #1243
CALI: A0402BK04 #3

BASE M/Z: 117
RIC: 9408.

009186

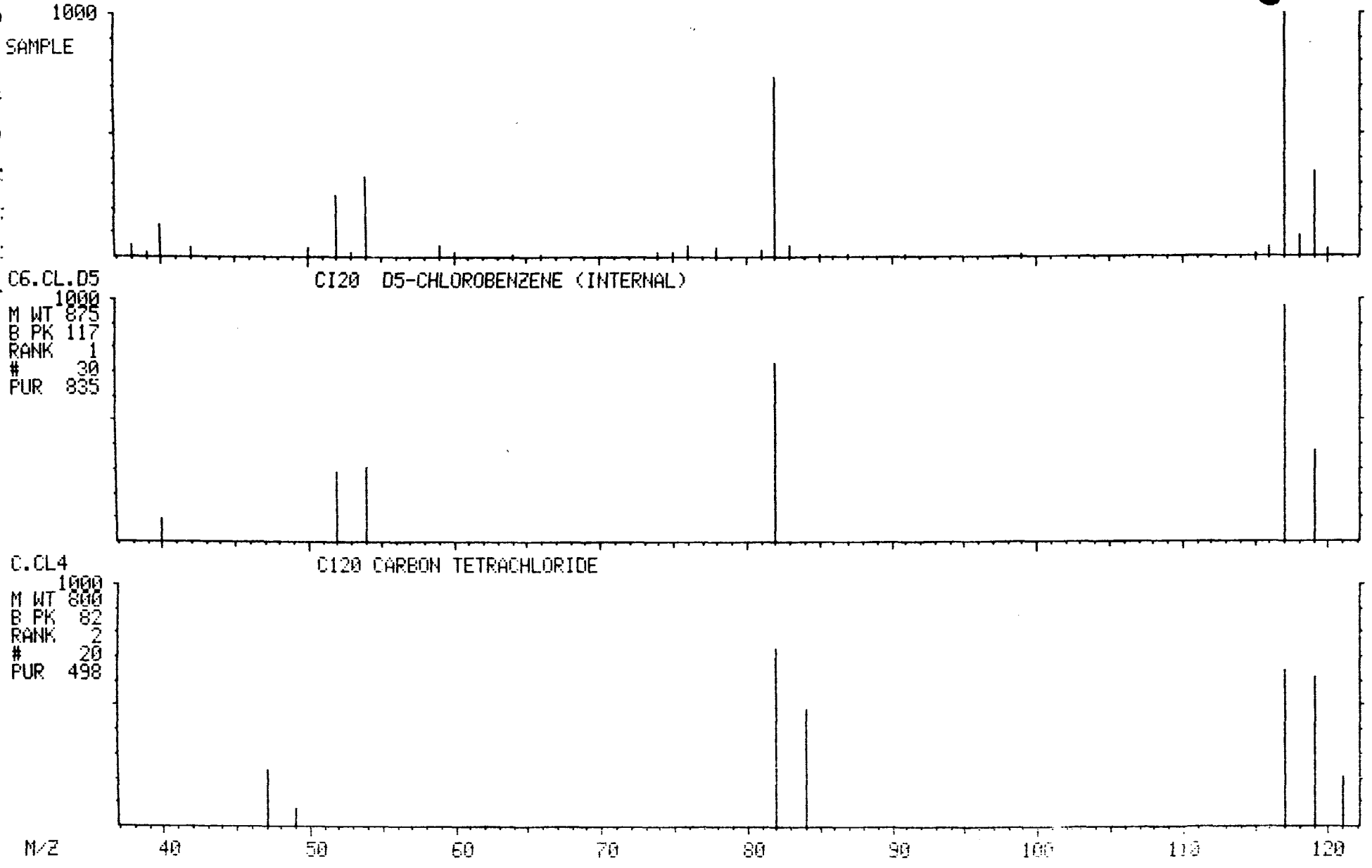


LIBRARY SEARCH
04/02/91 13:39:00 + 16:34
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 #1243
CALI: A0402BK04 # 3

BASE M/Z: 117
RIC: 9119.

000187

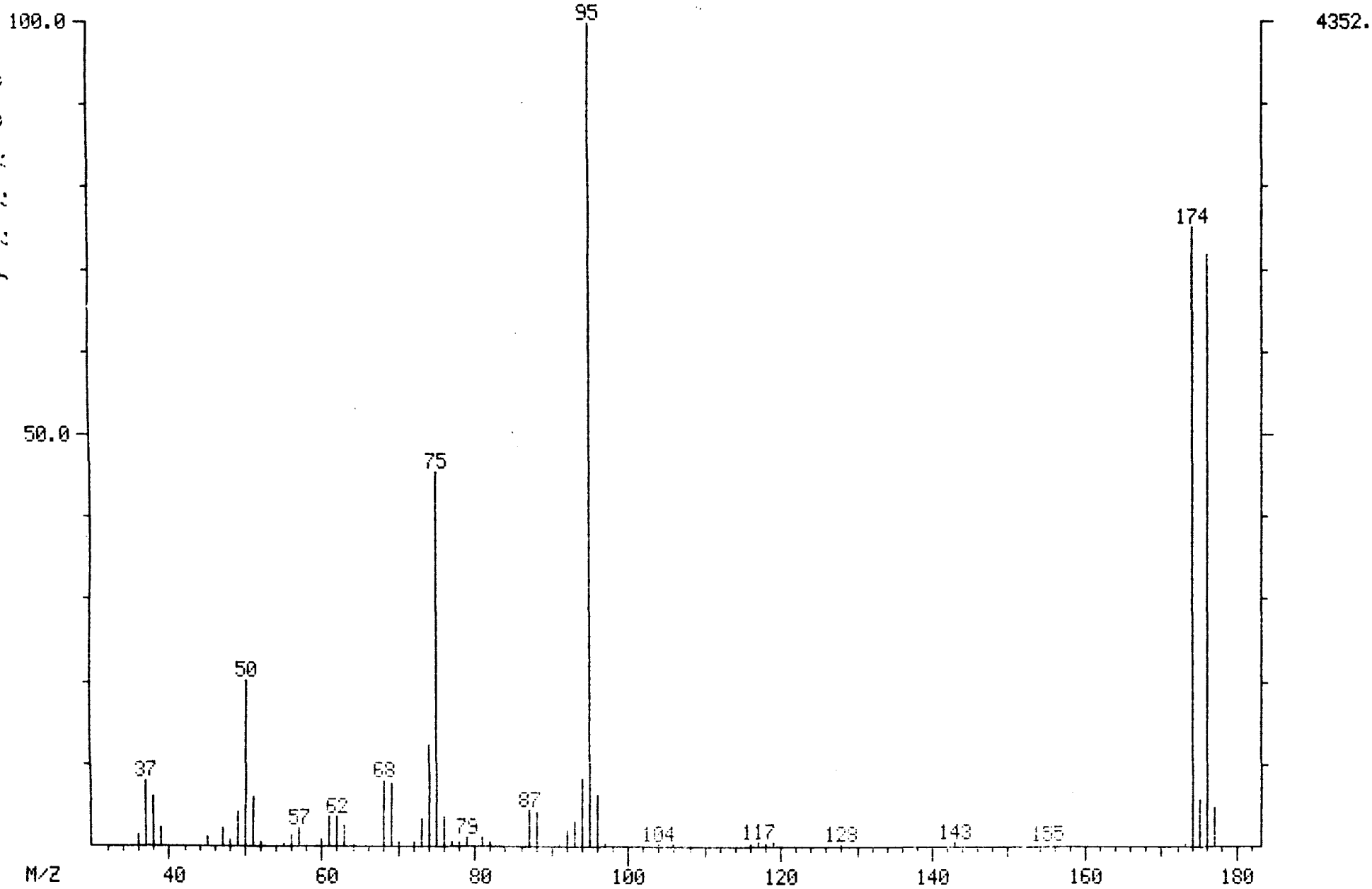


MASS SPECTRUM
04/02/91 13:39:00 + 21:07
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 #1584
CALI: A0402BK04 #3

BASE M/Z: 95
RIC: 19328.

G00148

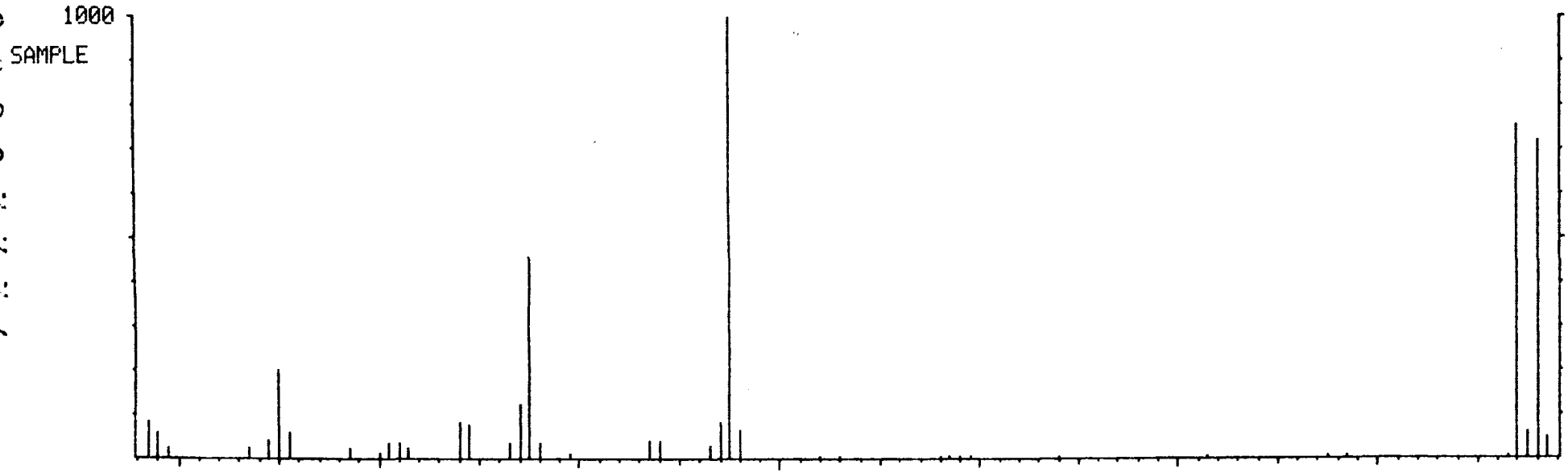


LIBRARY SEARCH
04/02/91 13:39:00 + 21:07
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

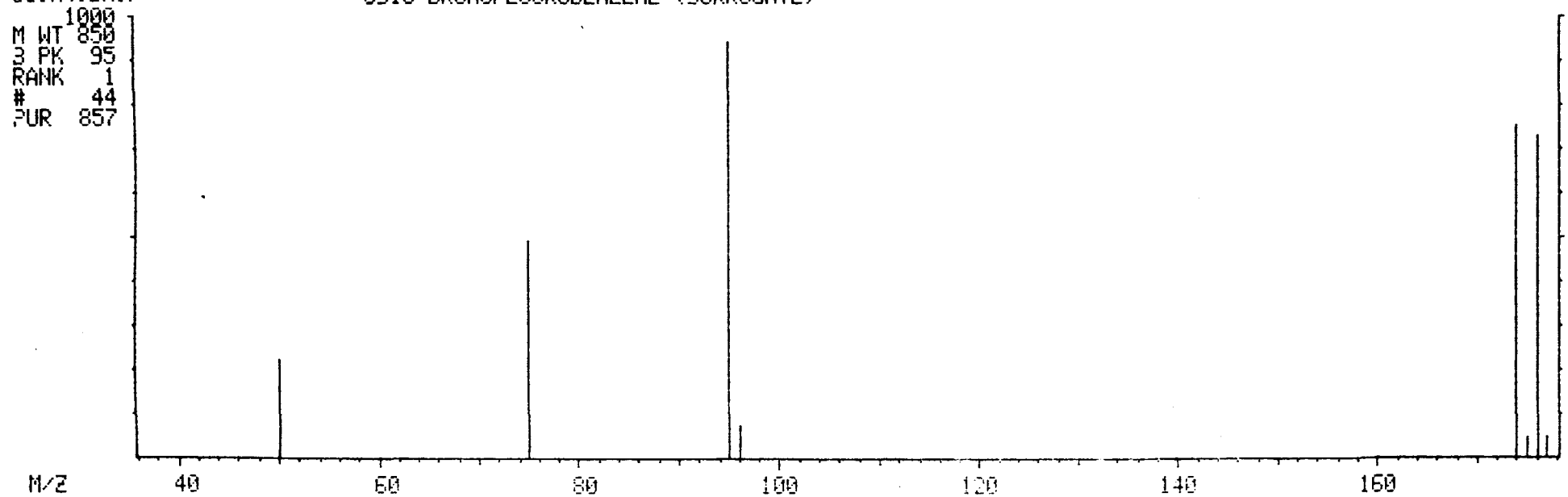
DATA: A0402BK04 #1584
CALI: A0402BK04 # 3

BASE M/Z: 95
RIC: 18751.

000189



C6.H4.BR.F CS10 BROMOFLUOROBENZENE (SURROGATE)



9 2 2 2 6 0 0 0 8 6 6

NON-TARGET COMPOUND SPECTRA

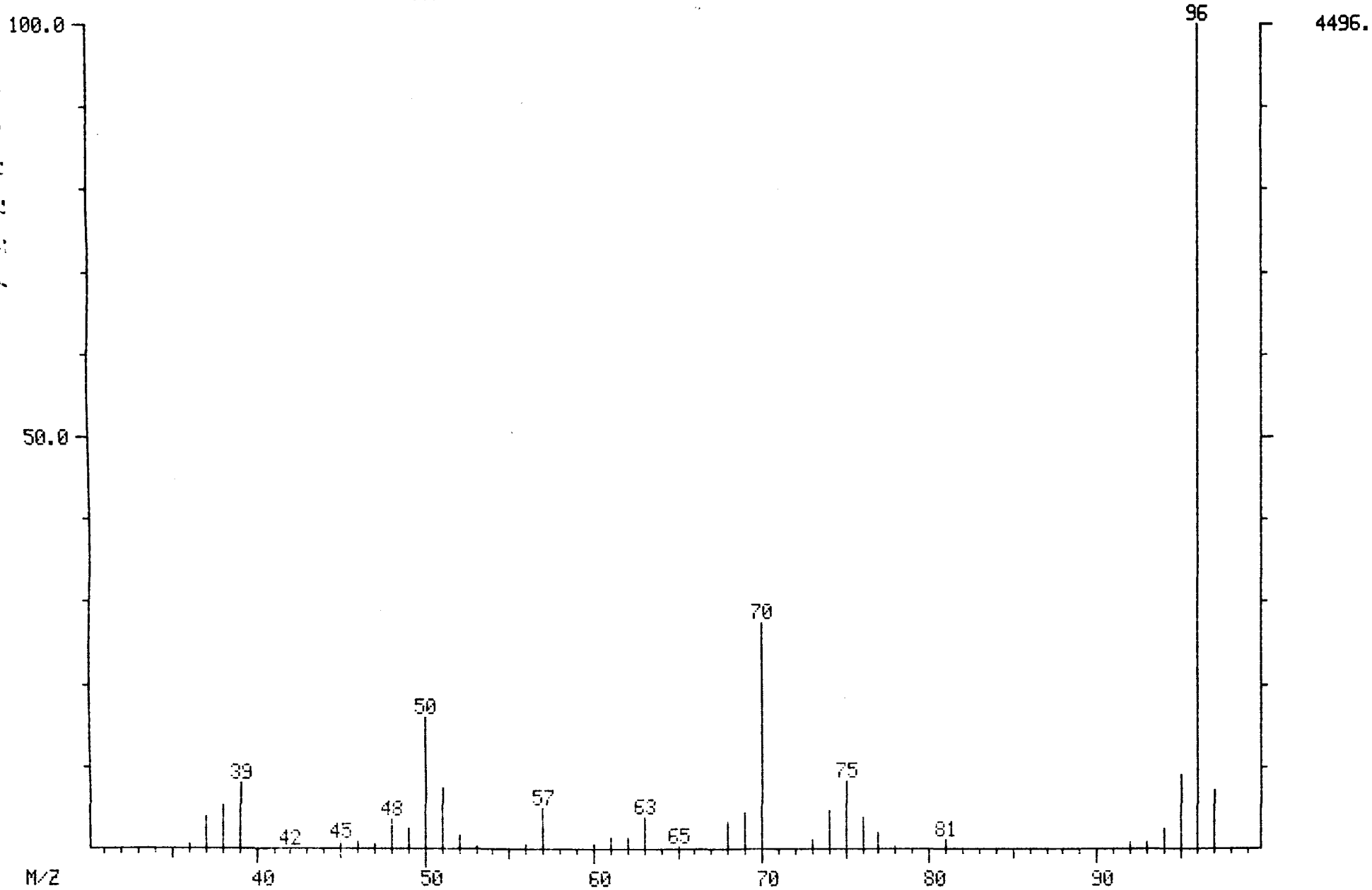
000190

MASS SPECTRUM
04/02/91 13:39:00 + 5:21
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 #401
CALI: A0402BK04 #3

BASE M/Z: 96
RIC: 10800.

C00191

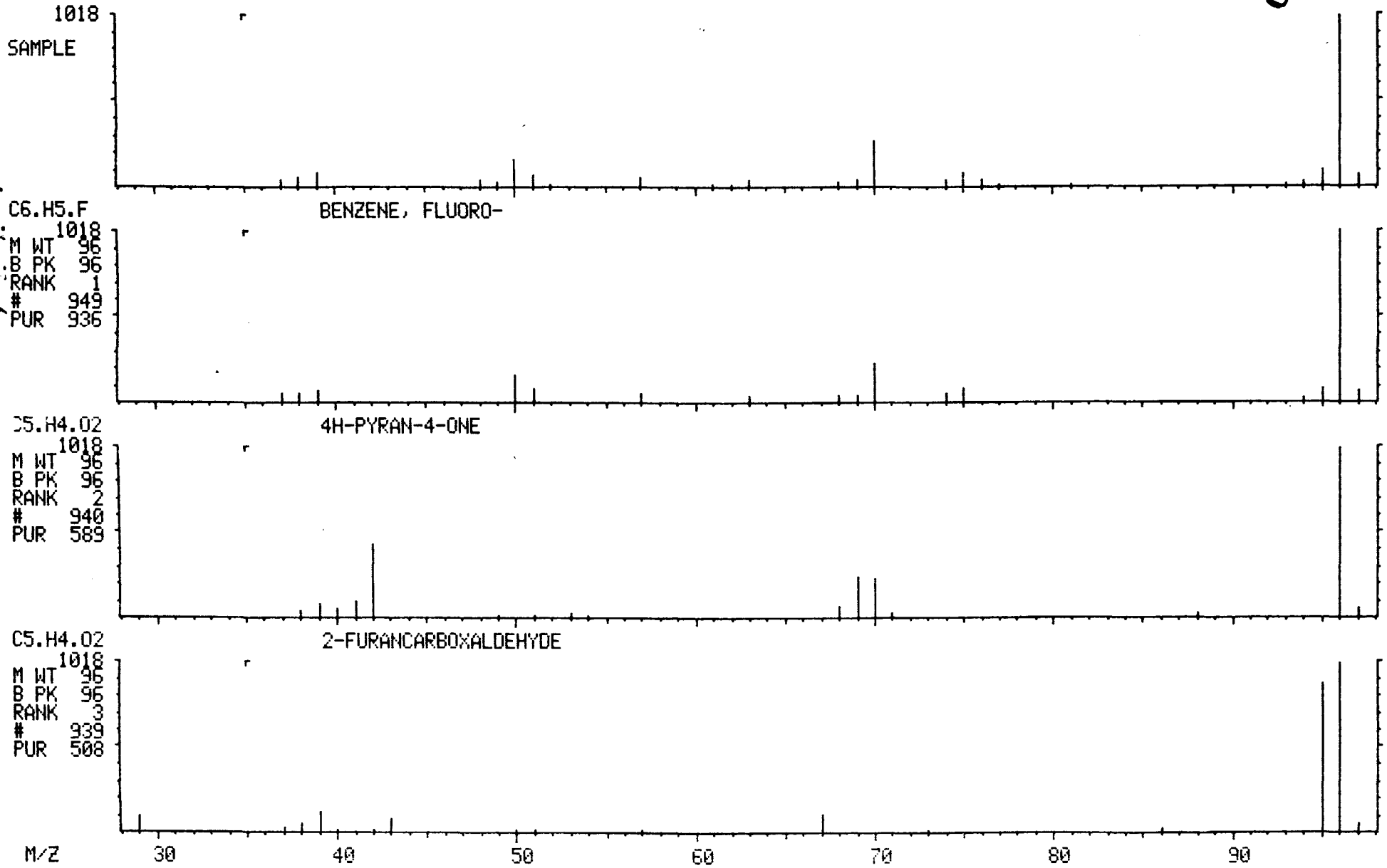


LIBRARY SEARCH
04/02/91 13:39:00 + 5:21
SAMPLE: 90899,*BLANK* 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK04 # 401
CALI: A0402BK04 # 3

BASE M/Z: 96
RIC: 10543.

000192



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190900

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0401LC04

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 16 Date Analyzed: 04/01/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

9 2 2 2 6 0 0 0 3 6 9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	5	J
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	5	J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190900

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0401LC04

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 16 Date Analyzed: 04/01/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

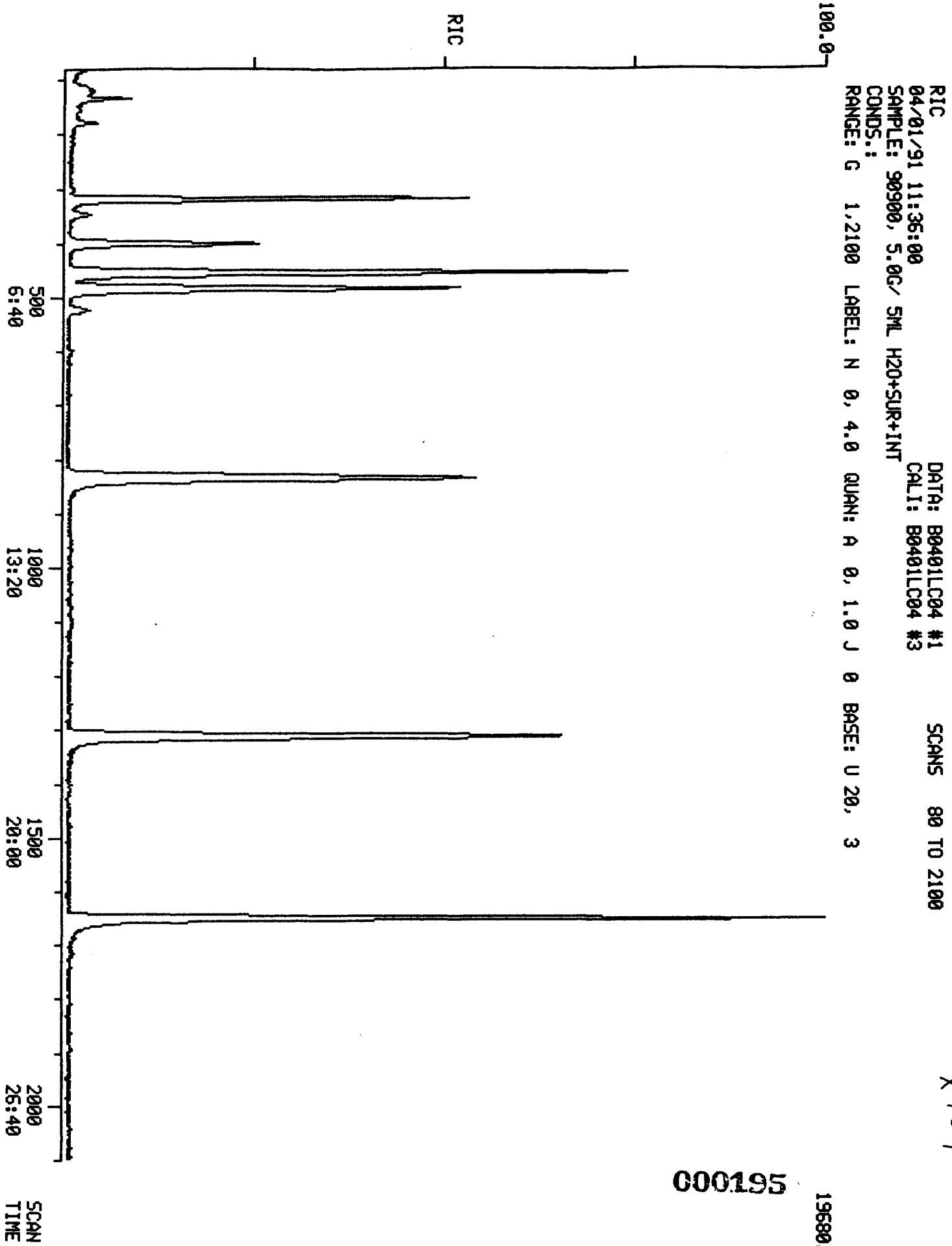
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9 2 2 2 6 0 0 7 0

TCA FINISHED, 13 FOUND
FINISHED AT: 4/01/91 16:48:03

9 2 2 2 6 0 0 0 3 7 1

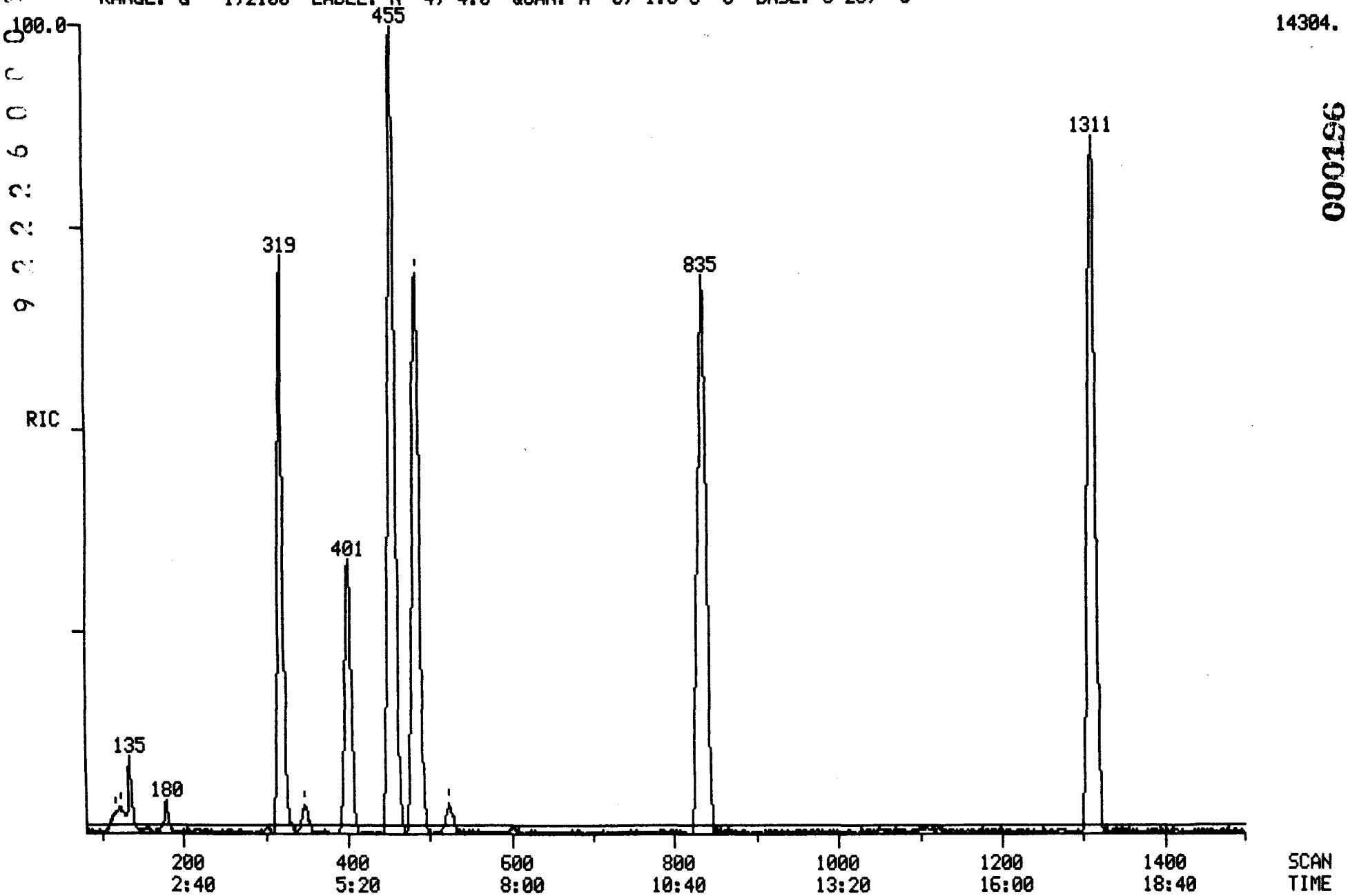


X 101

000195

RIC
04/01/91 11:36:00
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

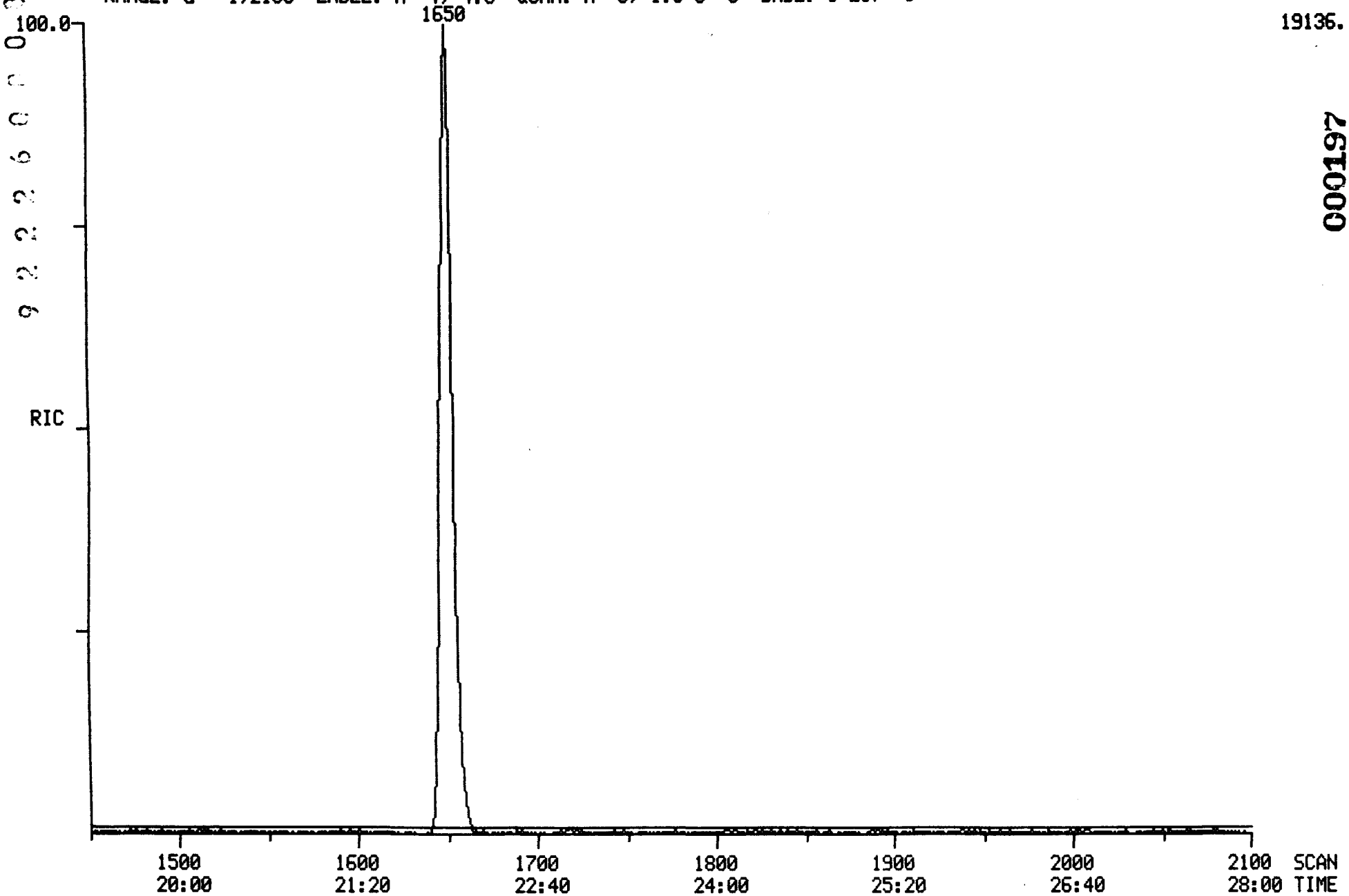
DATA: B0401LC04 #1 SCANS 80 TO 1500
CALI: B0401LC04 #3



000196

RIC
04/01/91 11:36:00
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0401LC04 #1 SCANS 1450 TO 2100
CALI: B0401LC04 #3



000197

4/1/91 11:36:54 SCAN 1 OF 2100
Acquisition started

Acquire
04/01/91 11:36:00 + 0:01
Sample: 90900, 5.0G/ 5ML H2O+SUR+INT
Conds.:
Formula:
Submitted by:

Run 0:B0401LC04
Free sectors: 6126
Instrument: 5100
Analyst: LC

Acquiring
Scan: 1 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 30 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	Time (minutes) total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10 Samp int (ms): 0.200 Peak width: 1000.
Frag S/P: 10 Actual: 10 Samp int (ms): 0.200 Inten/ion: 2

Min peak width: 3 Min frag width %: 80 Min area: 50
ADC threshold: 2 Baseline: 0

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

000198

4/1/91 12:04:55
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	7.8	1680.0	0.5	22766.	11.	14.

92226000375

PROCEDURE: TCA DIAGNOSTIC REPORT 4/01/91 12:05:58
DATA FILE: B0401LC04
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	4	1	76	CLSRT1/CLSTC1
1	1	1	0	13	4	1	1474	CLSRT2/CLSTC2
1	1	1	0	16	4	6	60	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 12 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------										
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	315	319	319	.	1	973	.	128	318	-1	1
2	CS	2	-98	97	.	.	.	.	.	50	.	.	.
3	CS	3	-108	108	.	.	.	.	.	94	.	.	.
4	CS	4	-100	99	.	.	.	.	.	62	.	.	.
5	CS	5	-109	109	.	.	.	.	.	64	.	.	.
6	CS	6	178	179	180	1	1	991	.	84	179	-1	1
7	CS	7	154	155	154	-1	1	930	.	43	154	.	1
8	CS	8	-156	157	.	.	.	.	.	76	158	.	1
9	CS	9	-146	146	.	.	.	.	.	96	.	.	.
10	CS	10	-229	231	.	.	.	.	.	63	.	.	.
11	CS	12	-330	335	.	.	.	.	.	83	334	.	1
12	CS	13	-343	348	348	.	1	990	.	97	347	-1	1
13	CS	14	-117	117	.	.	.	.	.	101	118	.	1
14	CS	15	-195	197	.	.	.	.	.	96	.	.	.
15	CS	16	-287	291	.	.	.	.	.	96	.	.	.
16	CS	17	476	484	484	.	1	998	.	114	484	.	1
17	CS	18	-410	409	.	.	.	.	.	62	.	.	.
18	CS	19	-267	279	.	.	.	.	.	72	.	.	.
19	CS	20	-352	356	347	-9	1	833	.	117	346	-1	1
20	CS	21	-193	211	.	.	.	.	.	43	216	.	1
21	CS	22	-707	680	.	.	.	.	.	83	.	.	.
22	CS	23	-609	591	.	.	.	.	.	63	.	.	.
23	CS	24	-854	814	.	.	.	.	.	75	.	.	.
24	CS	25	-546	533	523	-10	1	988	.	130	523	.	1
25	CS	27	-395	396	.	.	.	.	.	78	.	.	.
26	CS	28	-834	796	.	.	.	.	.	106	.	.	.
27	CS	29	395	396	401	5	1	971	.	65	401	.	1
28	CS	43	-1805	1682	.	.	.	.	.	173	.	.	.
29	CS	30	1308	1311	1311	.	1	995	.	117	1311	.	1
30	CS	26	-1133	1138	.	.	.	.	.	129	.	.	.
31	CS	31	-1011	1017	.	.	.	.	.	97	.	.	.
32	CS	32	-958	964	.	.	.	.	.	75	.	.	.
33	CS	33	-1138	1143	.	.	.	.	.	43	1143	.	2
34	CS	34	-846	853	.	.	.	.	.	43	857	.	1
35	CS	35	-1011	1017	.	.	.	.	.	164	.	.	.
36	CS	36	-1724	1723	.	.	.	.	.	83	1724	.	1
37	CS	37	-847	854	855	1	1	861	.	91	855	.	2
38	CS	38	-1317	1320	.	.	.	.	.	112	.	.	.
39	CS	39	-1367	1370	.	.	.	.	.	106	.	.	.
40	CS	40	-1521	1522	.	.	.	.	.	104	1525	.	1
41	CS	41	-1405	1407	.	.	.	.	.	106	.	.	.
42	CS	42	-1512	1513	.	.	.	.	.	106	.	.	.
43	CS	44	1650	1650	1650	.	2	991	.	95	1650	.	1
44	CS	45	828	836	835	-1	3	994	.	98	835	.	1

Quantitation Report File: B0401LC04

Data: B0401LC04.TI
04/01/91 11:36:00
Sample: 90900, 5.0G/ 5ML H2O+SUR+INT
Conds.:
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	318	4:14	1	1.000	A BB	8471.	50.000 UG/G	10.53
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	179	2:23	1	0.563	A BB	532.	2.486 UG/G	0.52
7	43	154	2:03	1	0.484	A BB	162.	~~1.503~~ UG/G	0.32
8	76	158	2:06	1	0.497	A BB	41.	~~0.050~~ UG/G	0.01
9	NOT FOUND								
10	NOT FOUND								
11	83	334	4:27	1	1.050	A BB	260.	~~0.567~~ UG/G	0.12
12	97	347	4:38	1	1.091	A BB	1217.	4.071 UG/G	0.86
13	101	118	1:34	1	0.371	A BB	15.	~~0.158~~ UG/G	0.03
14	NOT FOUND								
15	NOT FOUND								
16	114	484	6:27	16	1.000	A BB	39185.	50.000 UG/G	10.53
17	NOT FOUND								
18	NOT FOUND								
19	117	346	4:37	16	0.715	A BB	234.	~~1.244~~ UG/G	0.26
20	43	216	2:53	16	0.446	A BB	18.	~~0.093~~ UG/G	0.02
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	130	523	6:58	16	1.081	A BB	1049.	3.844 UG/G	0.81
25	NOT FOUND								
26	NOT FOUND								
27	65	401	5:21	16	0.829	A BB	12315.	108.174 %	22.77
28	NOT FOUND								
29	117	1311	17:29	29	1.000	A BB	41323.	50.000 UG/G	10.53
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	1143	15:14	29	0.872	A*BV	293.	~~0.800~~ UG/G	0.17
34	43	857	11:26	29	0.654	A BB	34.	~~0.123~~ UG/G	0.03
35	NOT FOUND								
36	83	1724	22:59	29	1.315	A BB	17.	~~0.027~~ UG/G	0.01
37	91	855	11:24	29	0.652	A*BB	591.	~~0.780~~ UG/G	0.16
38	NOT FOUND								
39	NOT FOUND								
40	104	1525	20:20	29	1.163	A BB	58.	~~0.068~~ UG/G	0.01
41	NOT FOUND								
42	NOT FOUND								
43	95	1650	22:00	29	1.259	A BB	39812.	95.076 %	20.01
44	98	835	11:08	29	0.637	A BB	42672.	106.138 %	22.34

Quantitation Report File: B0401LC04A

Data: B0401LC04.TI
04/01/91 11:36:00
Sample: 90900, 5.0G/ 5ML H2O+SUR+INT
Conds.:
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	PROPANE, 2-METHOXY-
2	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	135	1:48	2	0.297	A BB	4725.	Et.ether ~~2.344~~ <5	3.42
2	RIC	455	6:04	2	1.000	A BB	133439.	66.200	96.58

9222600097

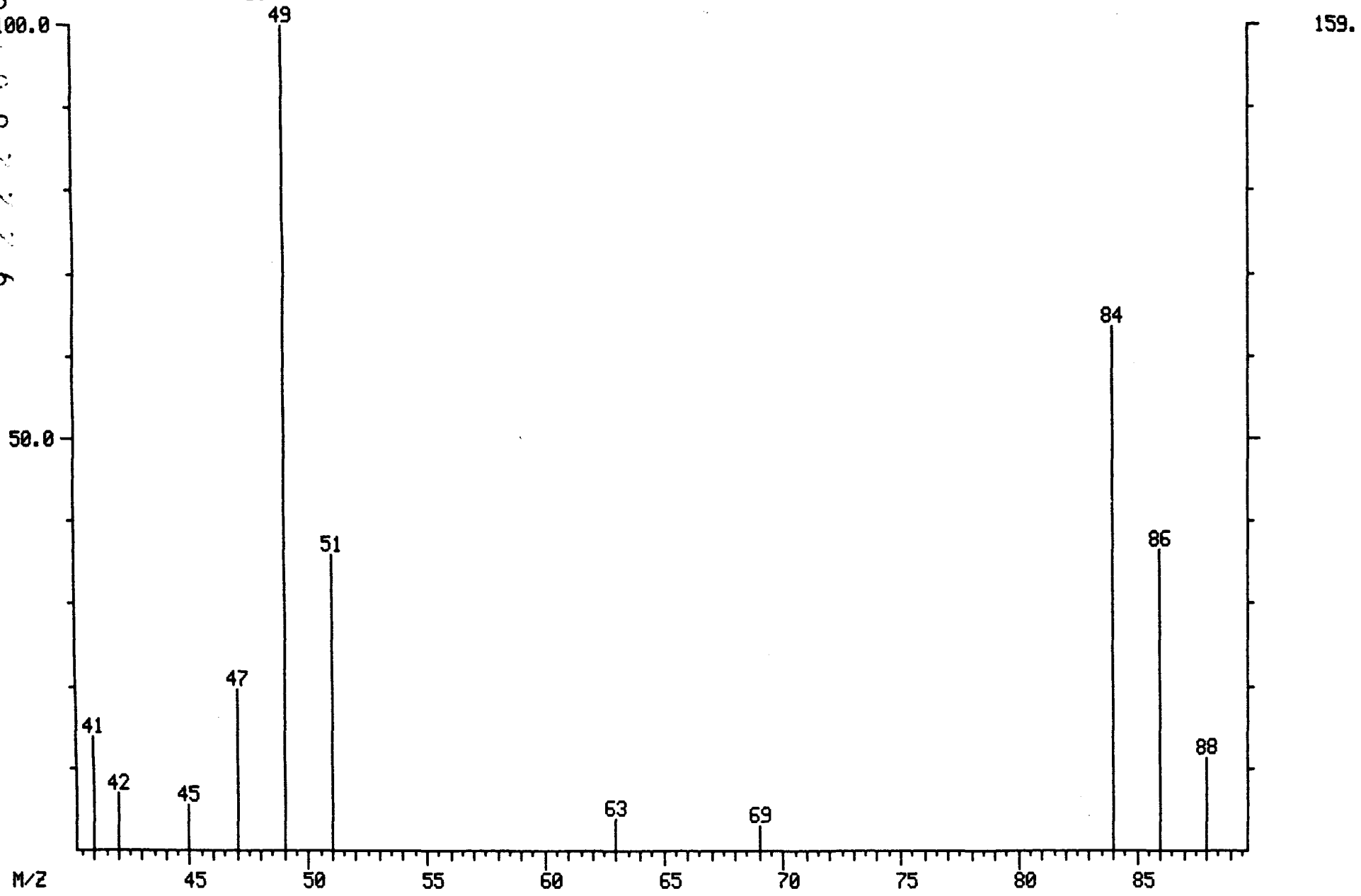
9 2 2 2 6 0 0 0 8 8 0

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/01/91 11:36:00 + 2:23
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
GC TEMP: 34 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 #179
CALI: B0401LC04 #3

BASE M/Z: 49
RIC: 477.

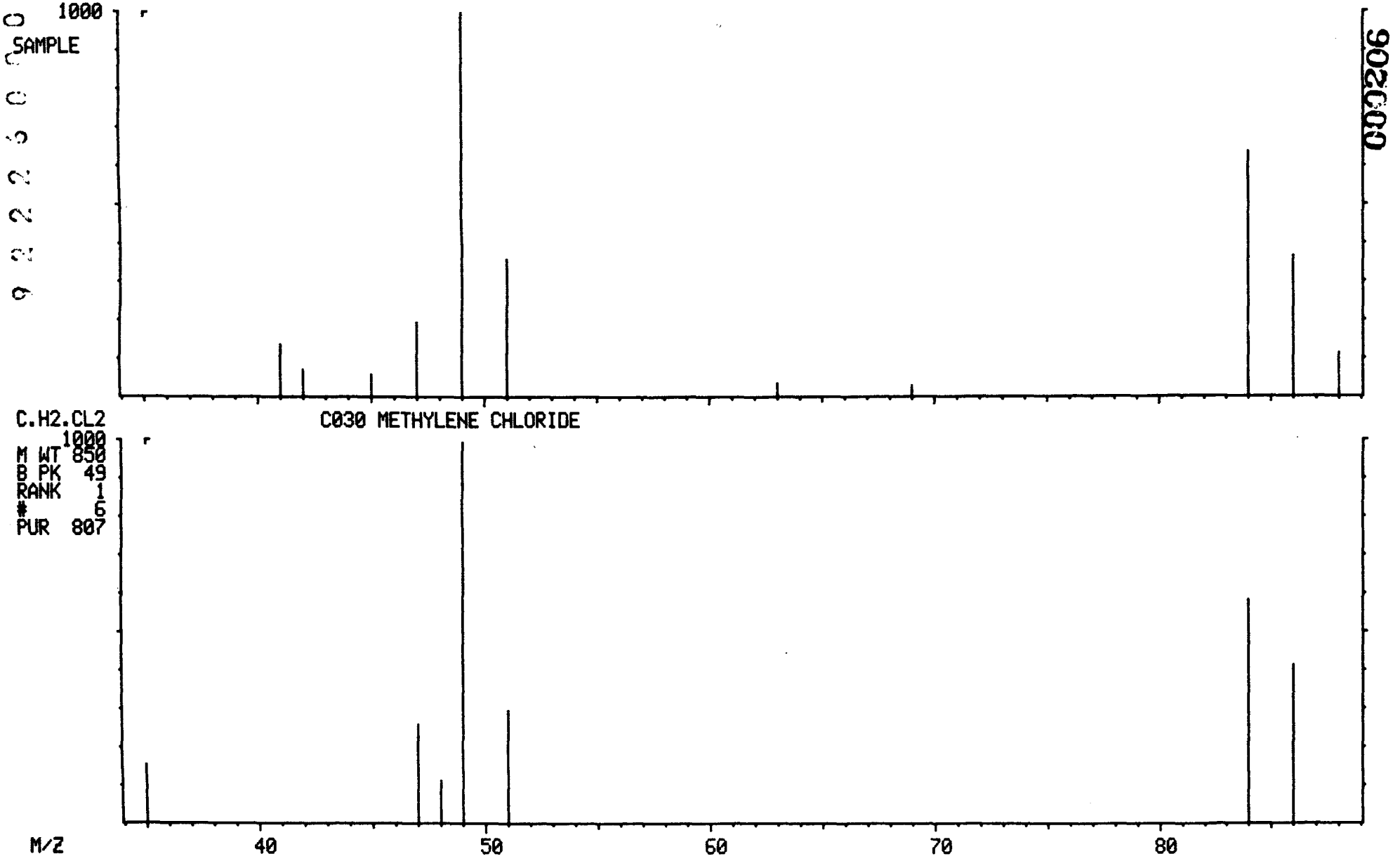


000205

LIBRARY SEARCH
04/01/91 11:36:00 + 2:23
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 # 179
CALI: B0401LC04 # 3

BASE M/Z: 49
RIC: 476.

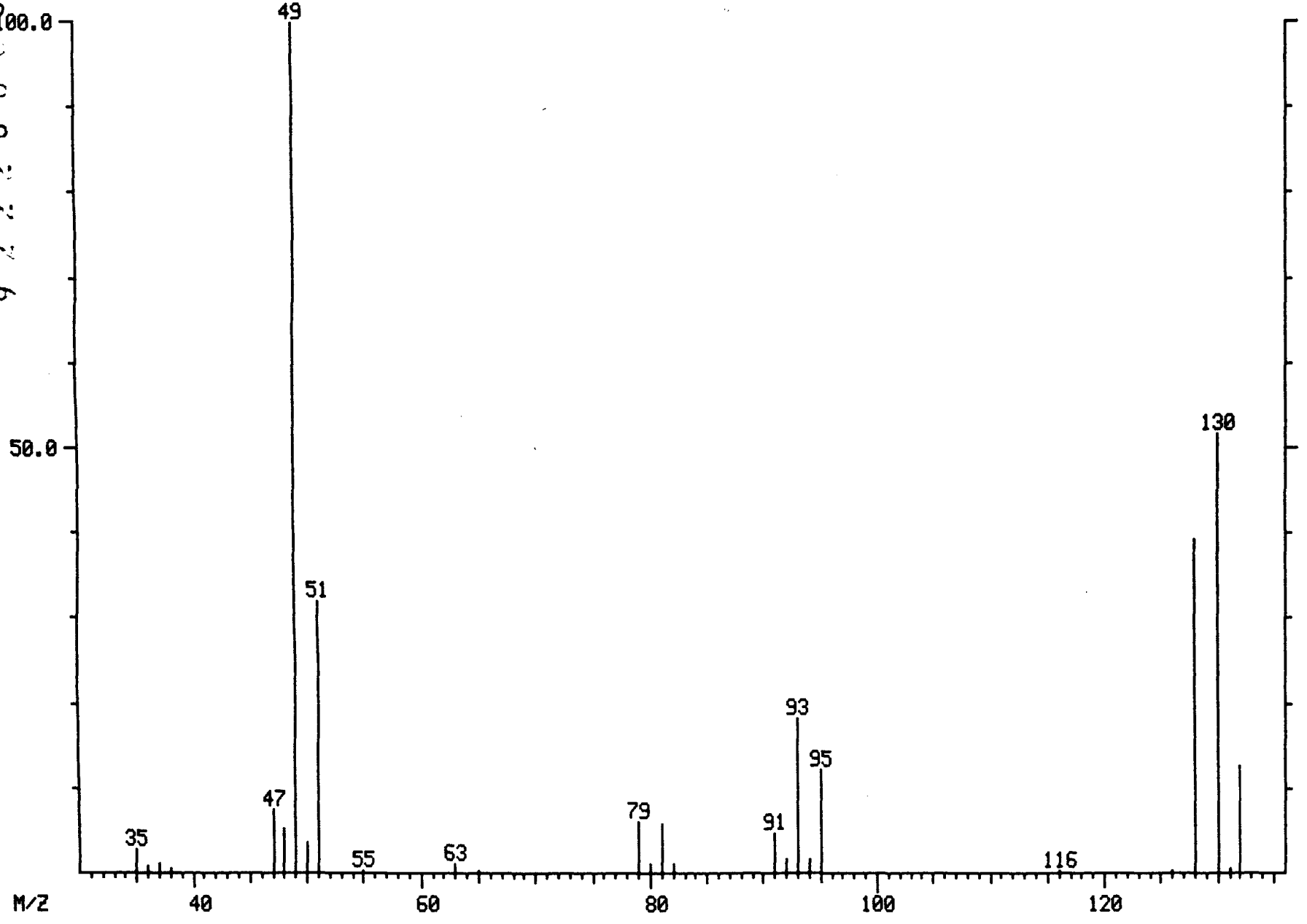


000206

MASS SPECTRUM
04/01/91 11:36:00 + 4:14
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 #318
CALI: B0401LC04 #3

BASE M/Z: 49
RIC: 8832.

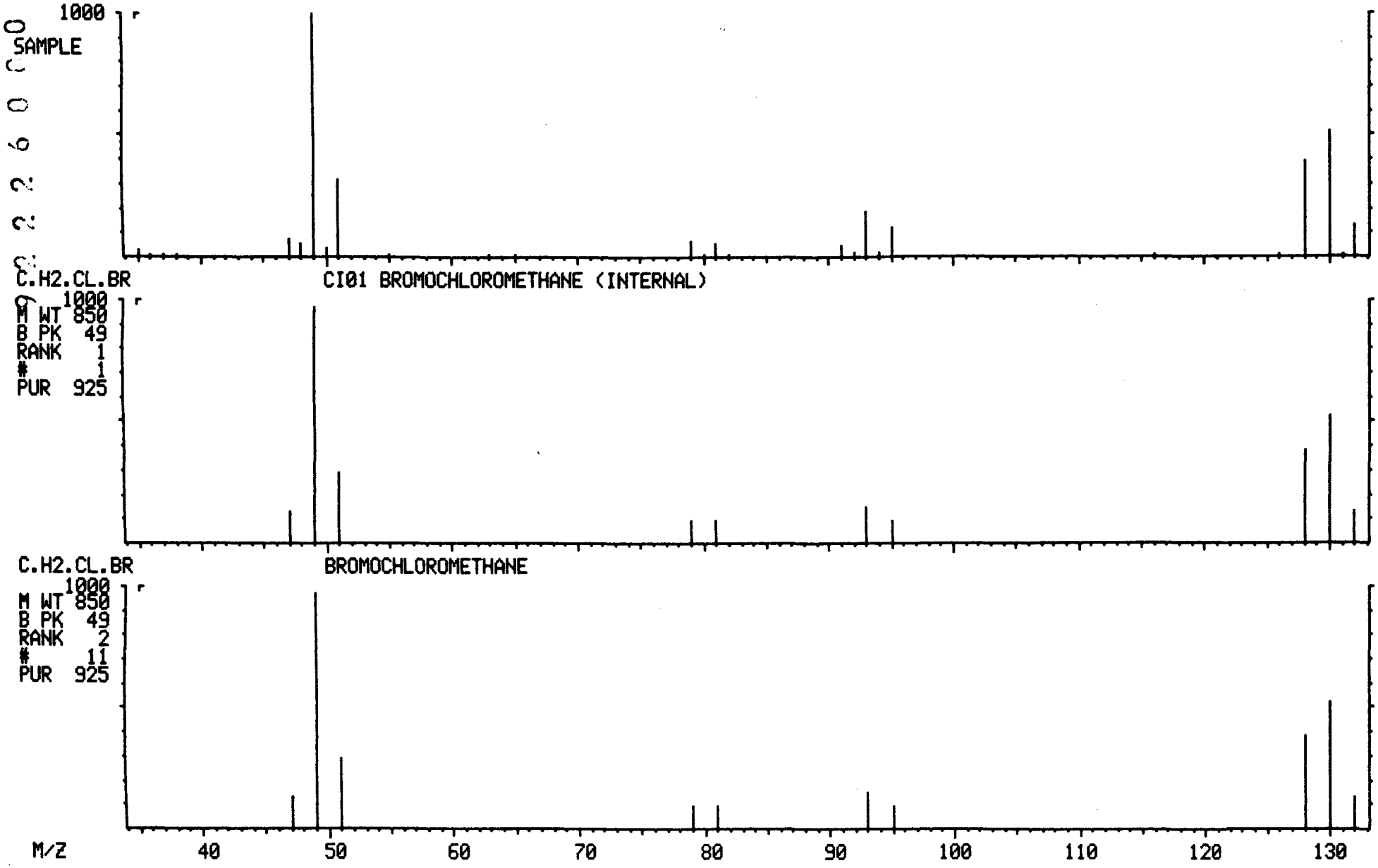


000207

LIBRARY SEARCH
04/01/91 11:36:00 + 4:14
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 # 318
CALI: B0401LC04 # 3

BASE M/Z: 49
RIC: 8831.

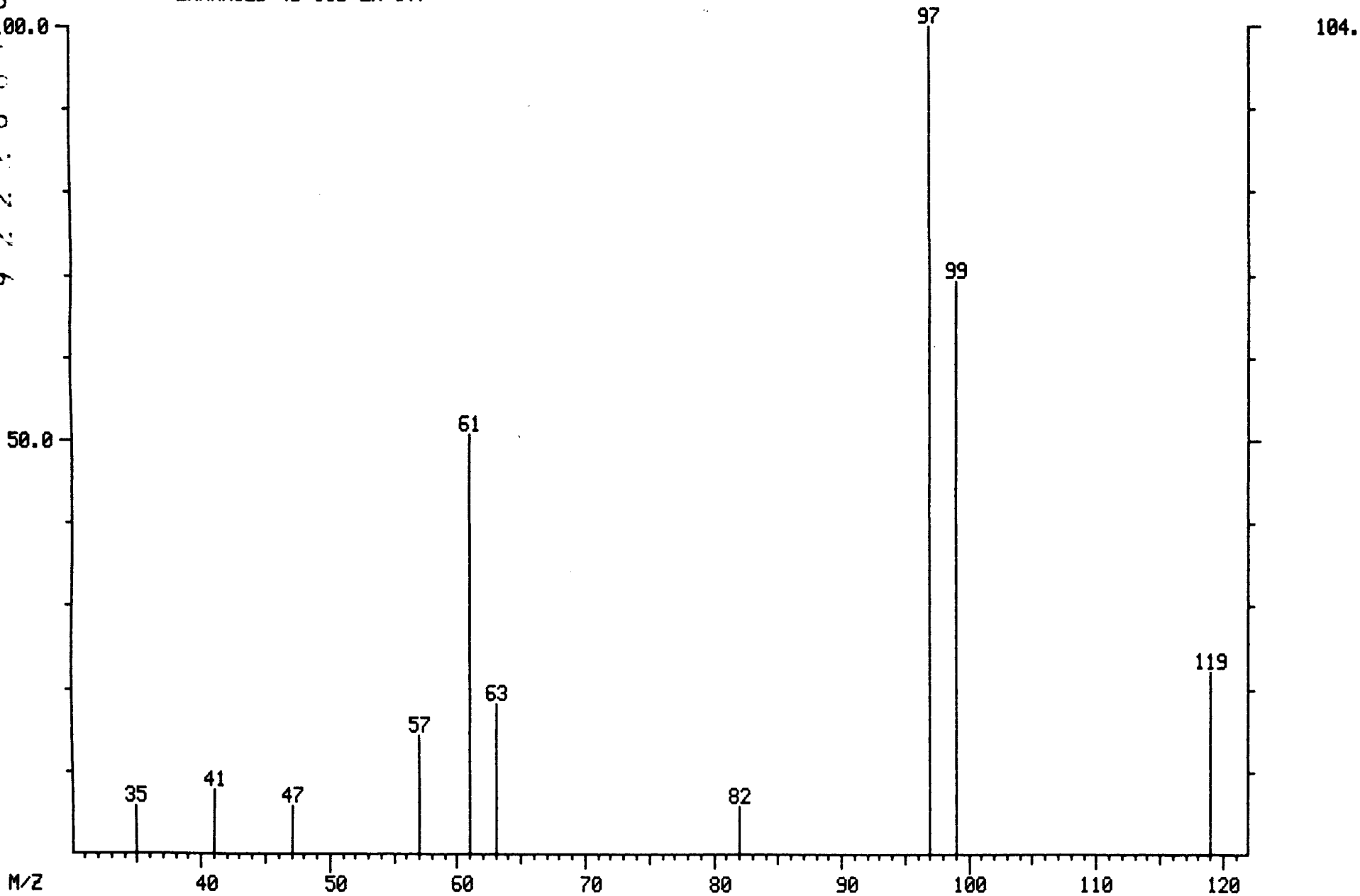


000208

MASS SPECTRUM
04/01/91 11:36:00 + 4:38
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 #347
CALI: B0401LC04 #3

BASE M/Z: 97
RIC: 312.

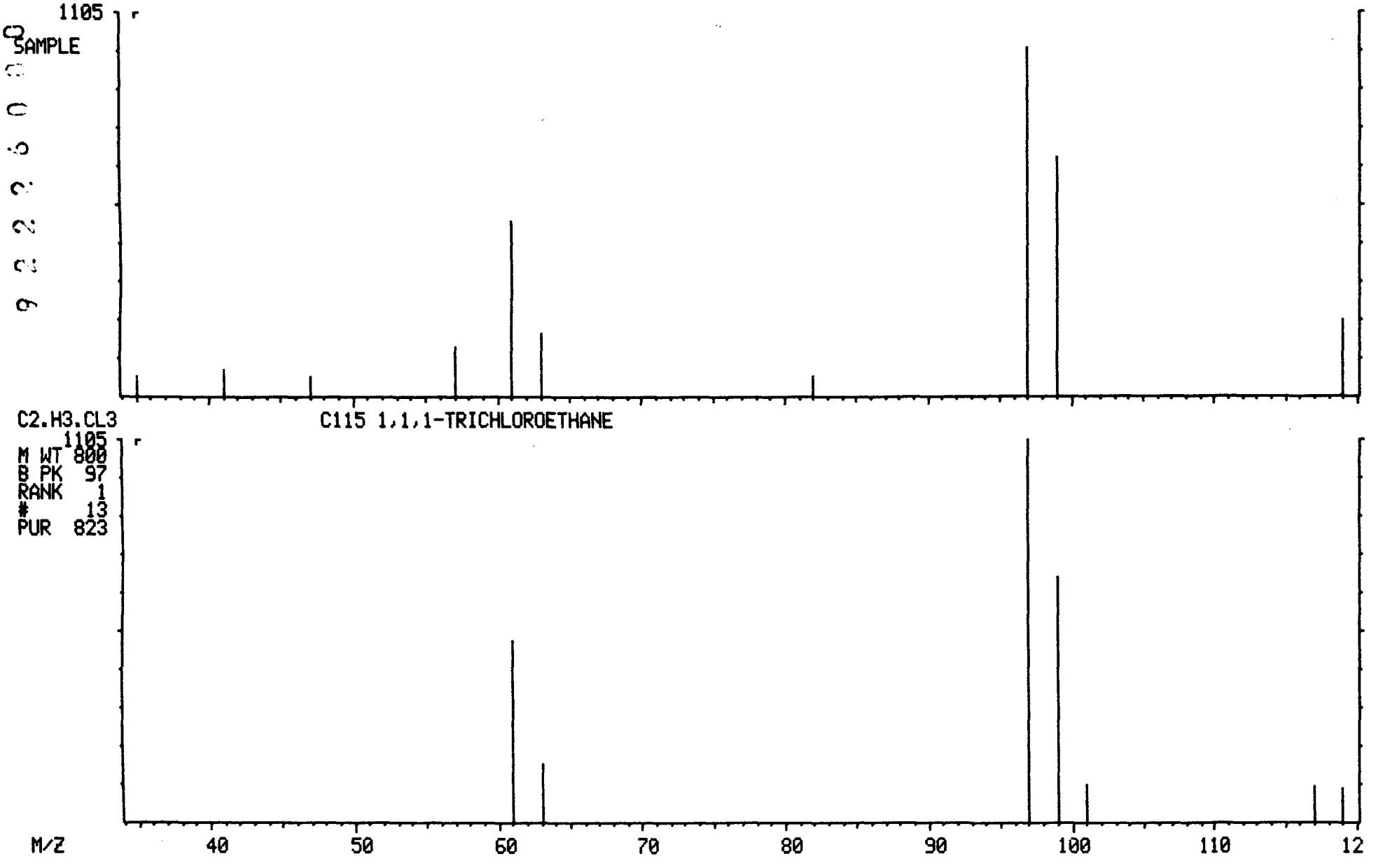


000209

LIBRARY SEARCH
04/01/91 11:36:00 + 4:38
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 # 347
CALI: B0401LC04 # 3

BASE M/Z: 97
RIC: 311.

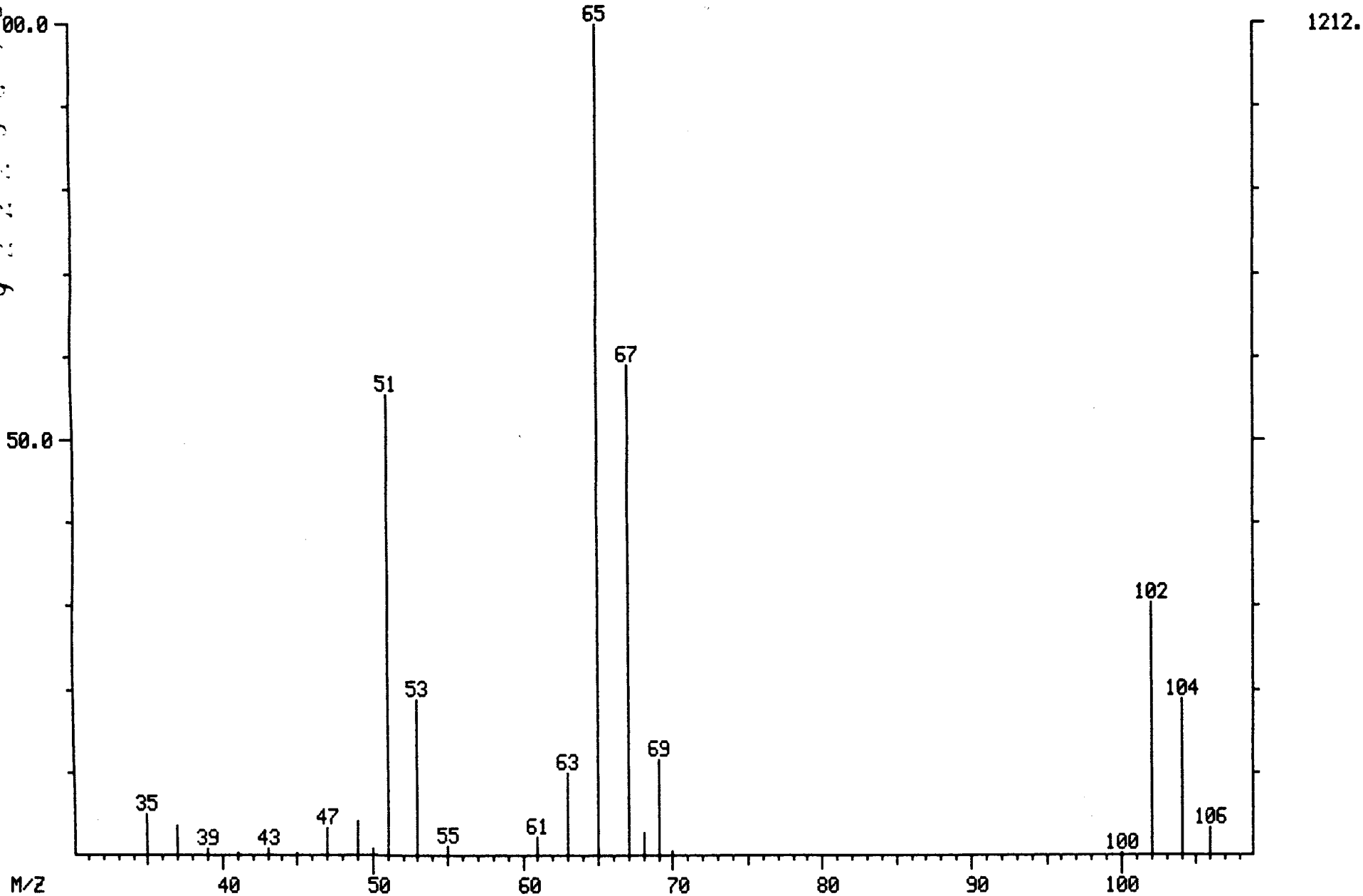


000210

MASS SPECTRUM
04/01/91 11:36:00 + 5:21
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 #401
CALI: B0401LC04 #3

BASE M/Z: 65
RIC: 4052.

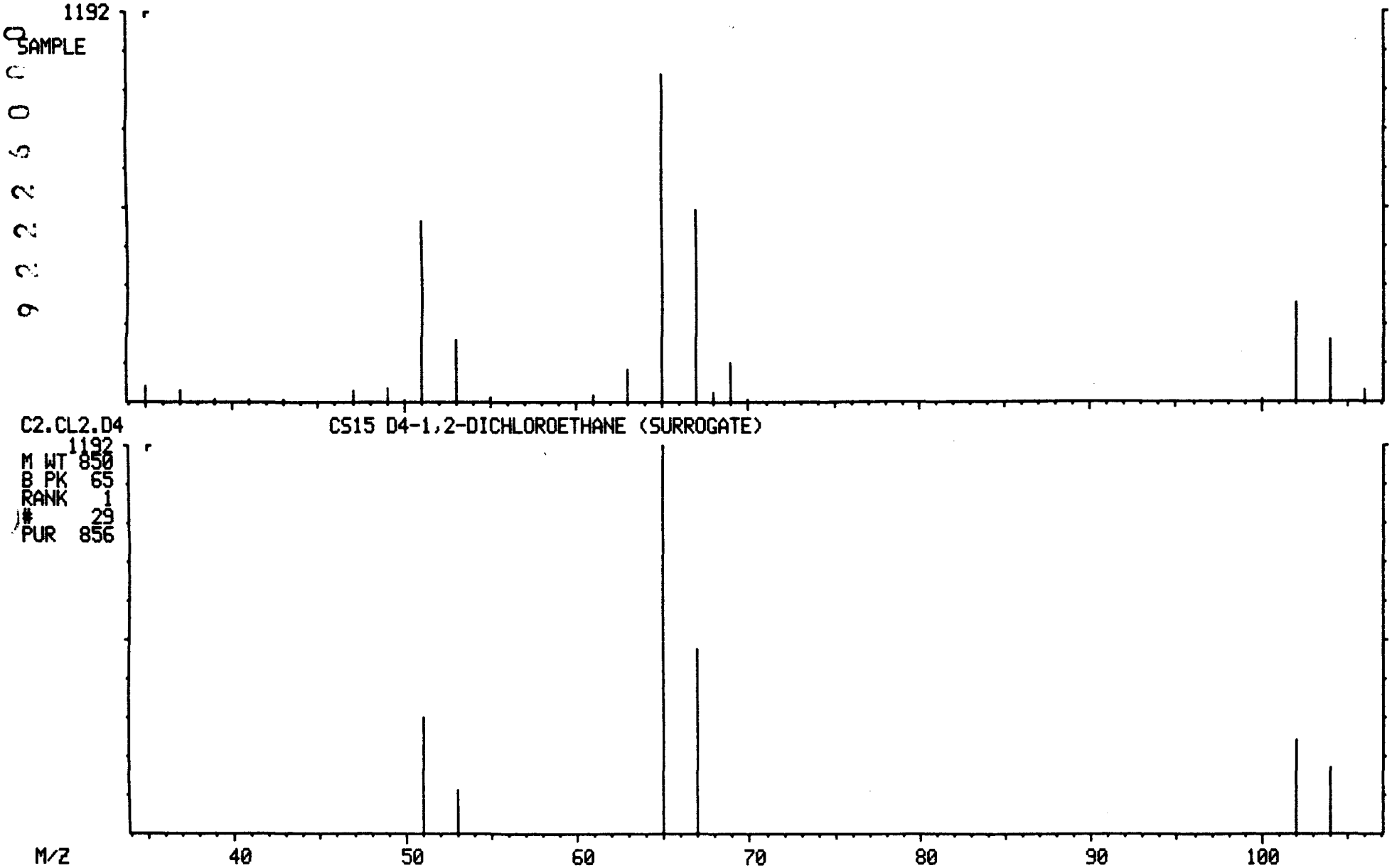


000211

LIBRARY SEARCH
04/01/91 11:36:00 + 5:21
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 # 401
CALI: B0401LC04 # 3

BASE M/Z: 65
RIC: 4047.

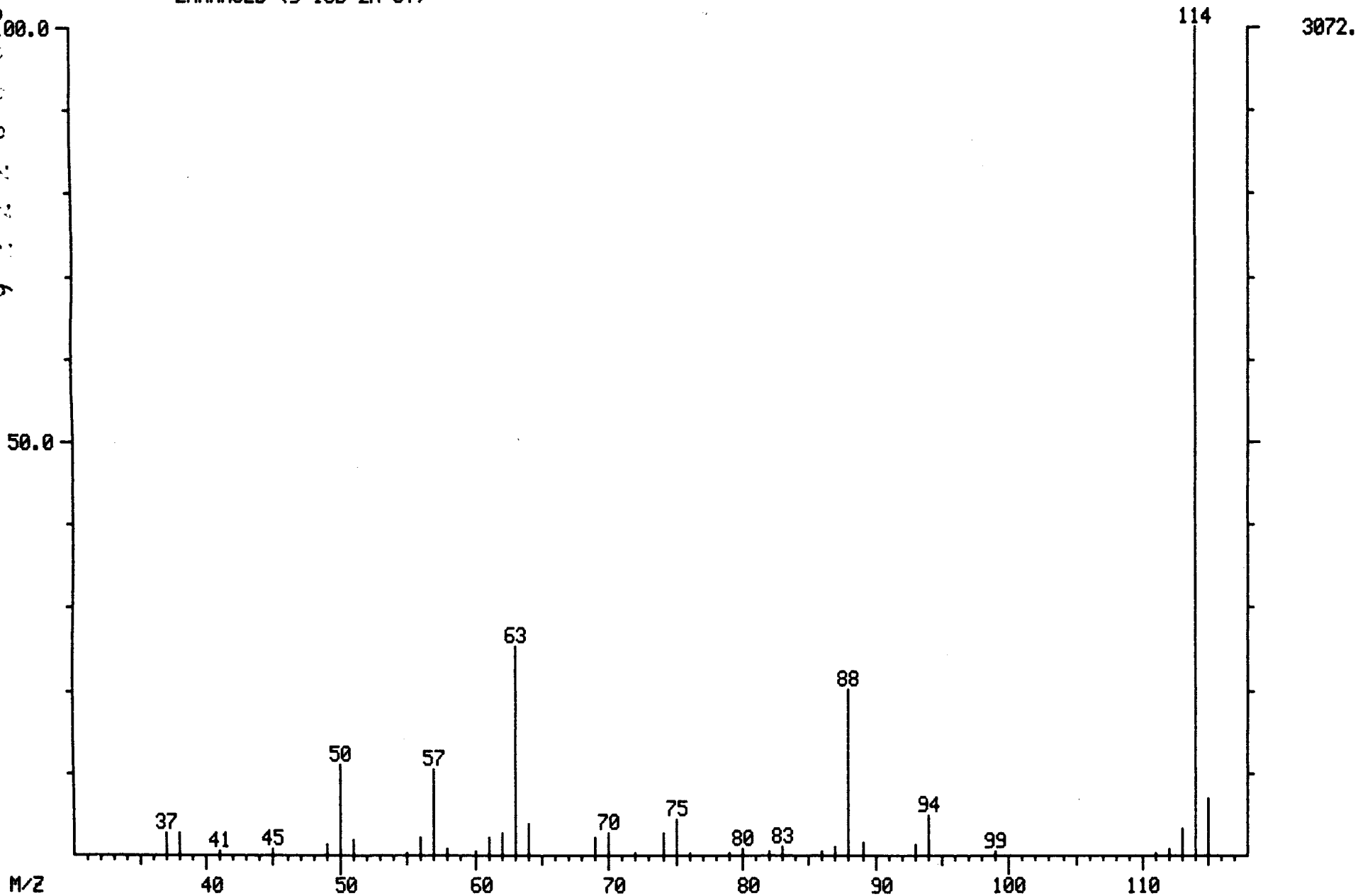


000212

MASS SPECTRUM
04/01/91 11:36:00 + 6:27
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 #484
CALI: B0401LC04 #3

BASE M/Z: 114
RIC: 6976.

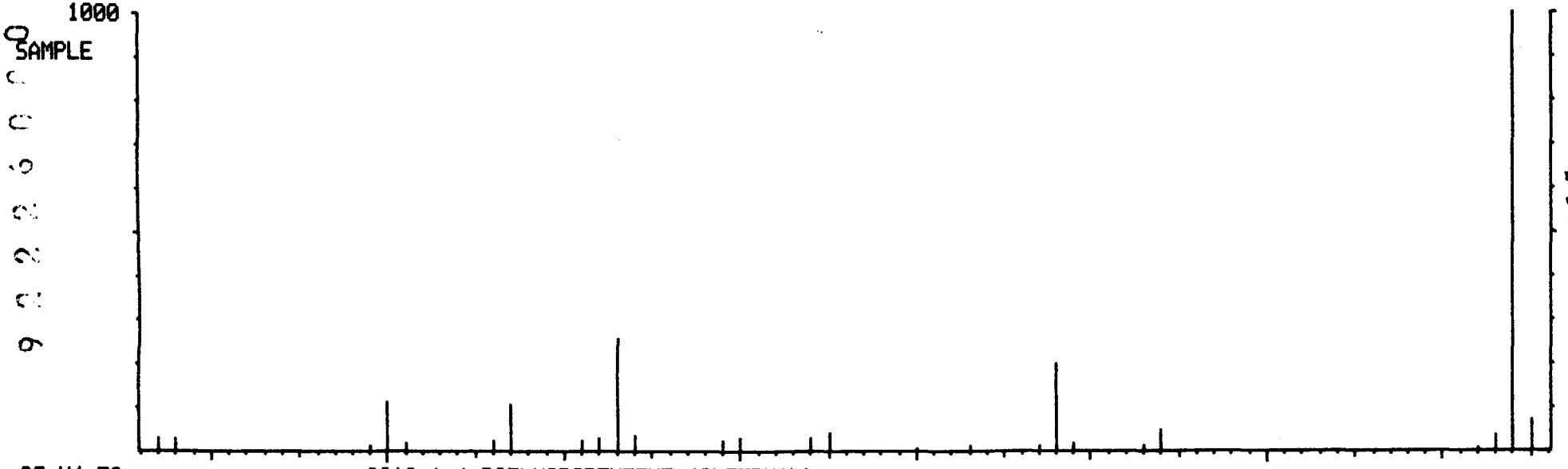


000213

LIBRARY SEARCH
04/01/91 11:36:00 + 6:27
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
ENHANCED (S 15B 2N 0T)

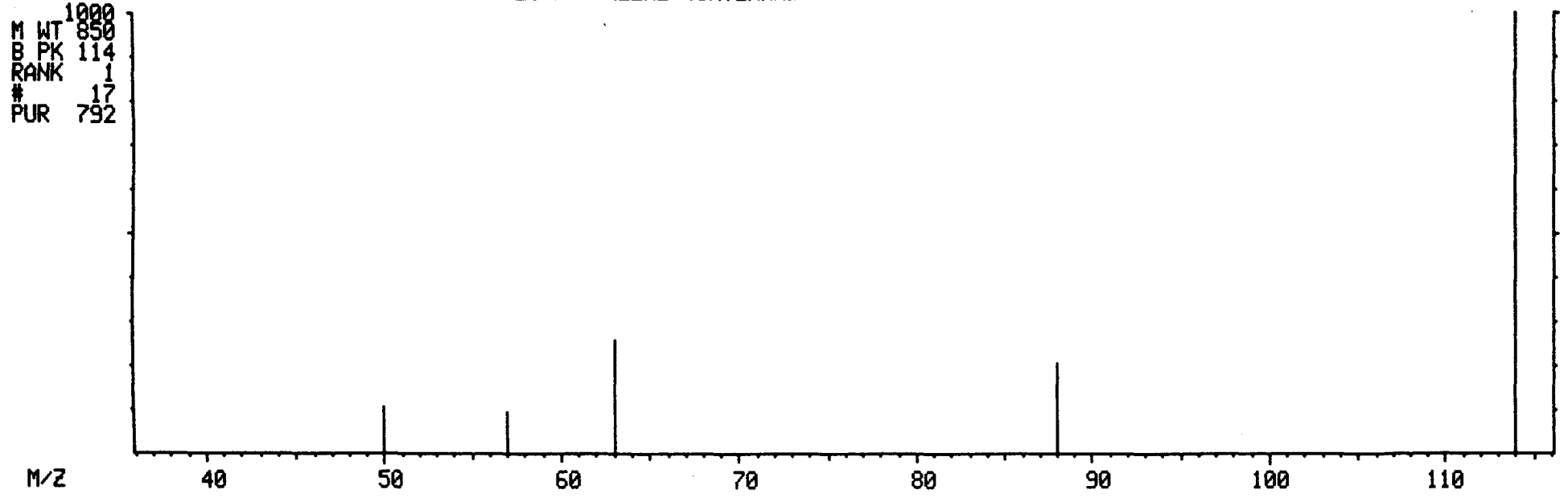
DATA: B0401LC04 # 484
CALI: B0401LC04 # 3

BASE M/Z: 114
RIC: 6799.



C6.H4.F2
CI10 1,4-DIFLUOROBENZENE (INTERNAL)

M WT 850
B PK 114
RANK 1
17
PUR 792

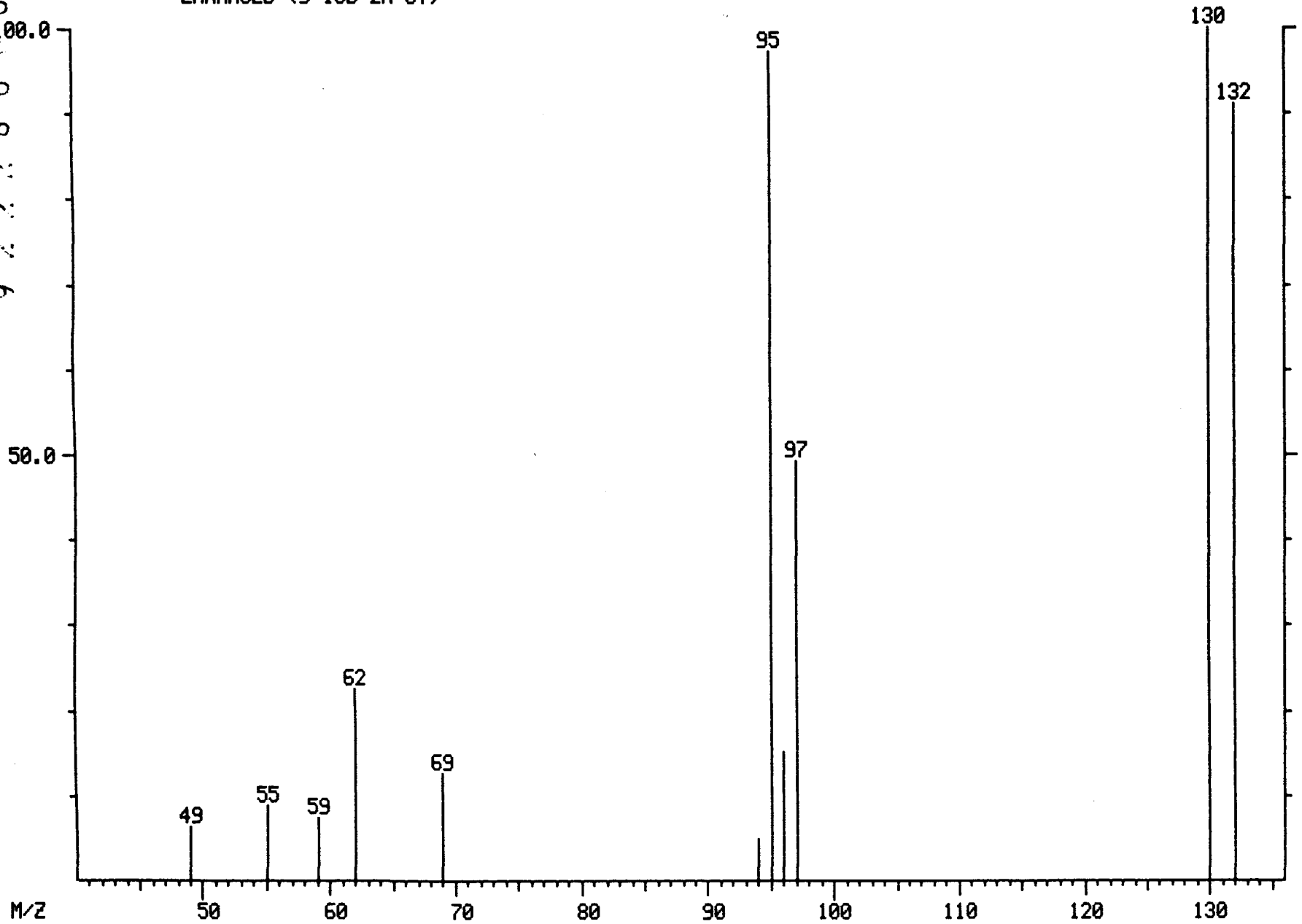


000214

MASS SPECTRUM
04/01/91 11:36:00 + 6:58
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 #523
CALI: B0401LC04 #3

BASE M/Z: 130
RIC: 329.



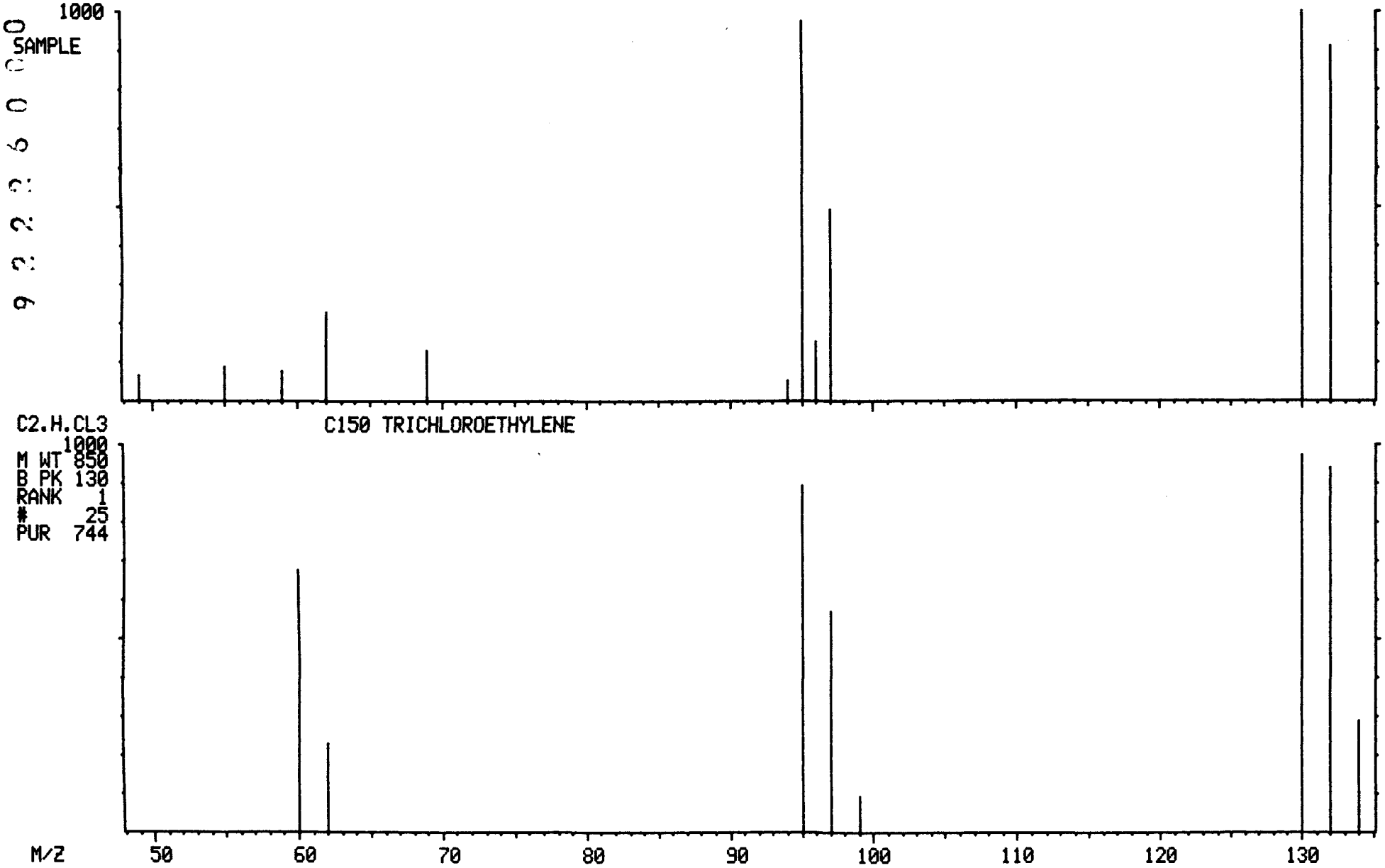
79.

000215

LIBRARY SEARCH
04/01/91 11:36:00 + 6:58
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 # 523
CALI: B0401LC04 # 3

BASE M/Z: 130
RIC: 328.

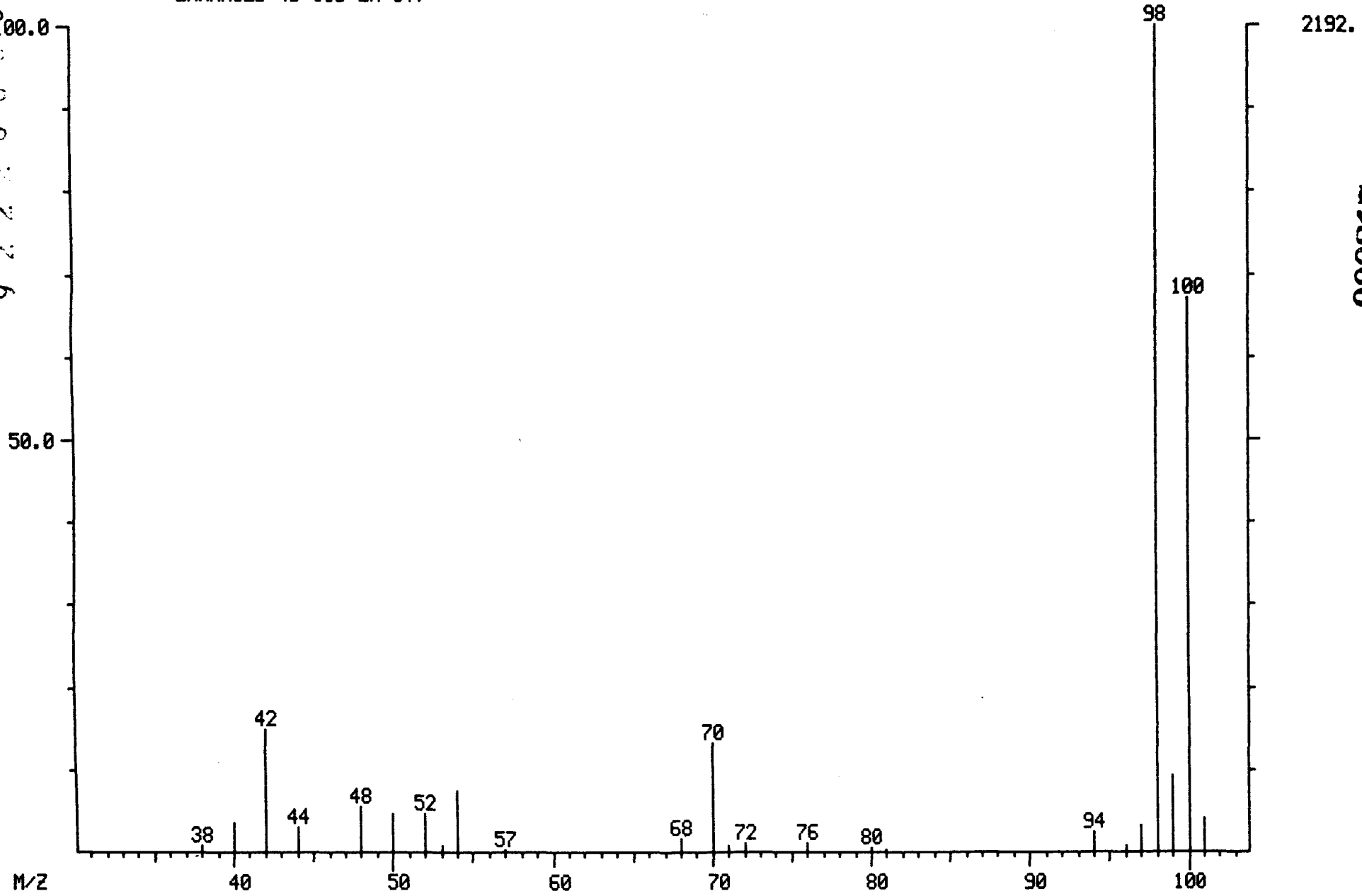


G00216

MASS SPECTRUM
04/01/91 11:36:00 + 11:08
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
GC TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 #835
CALI: B0401LC04 #3

BASE M/Z: 98
RIC: 5544.

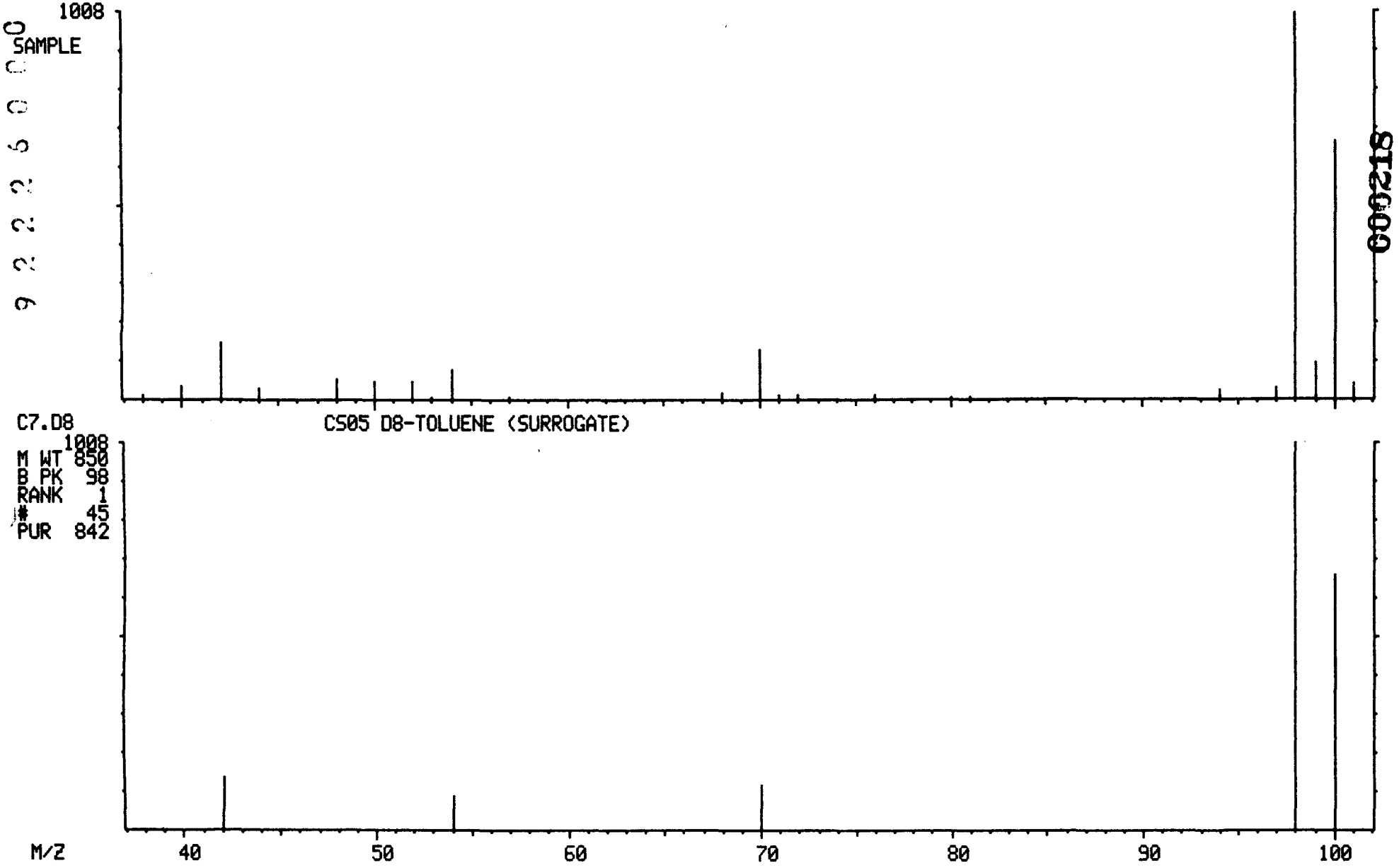


000217

LIBRARY SEARCH
04/01/91 11:36:00 + 11:08
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 # 835
CALI: B0401LC04 # 3

BASE M/Z: 98
RIC: 5519.

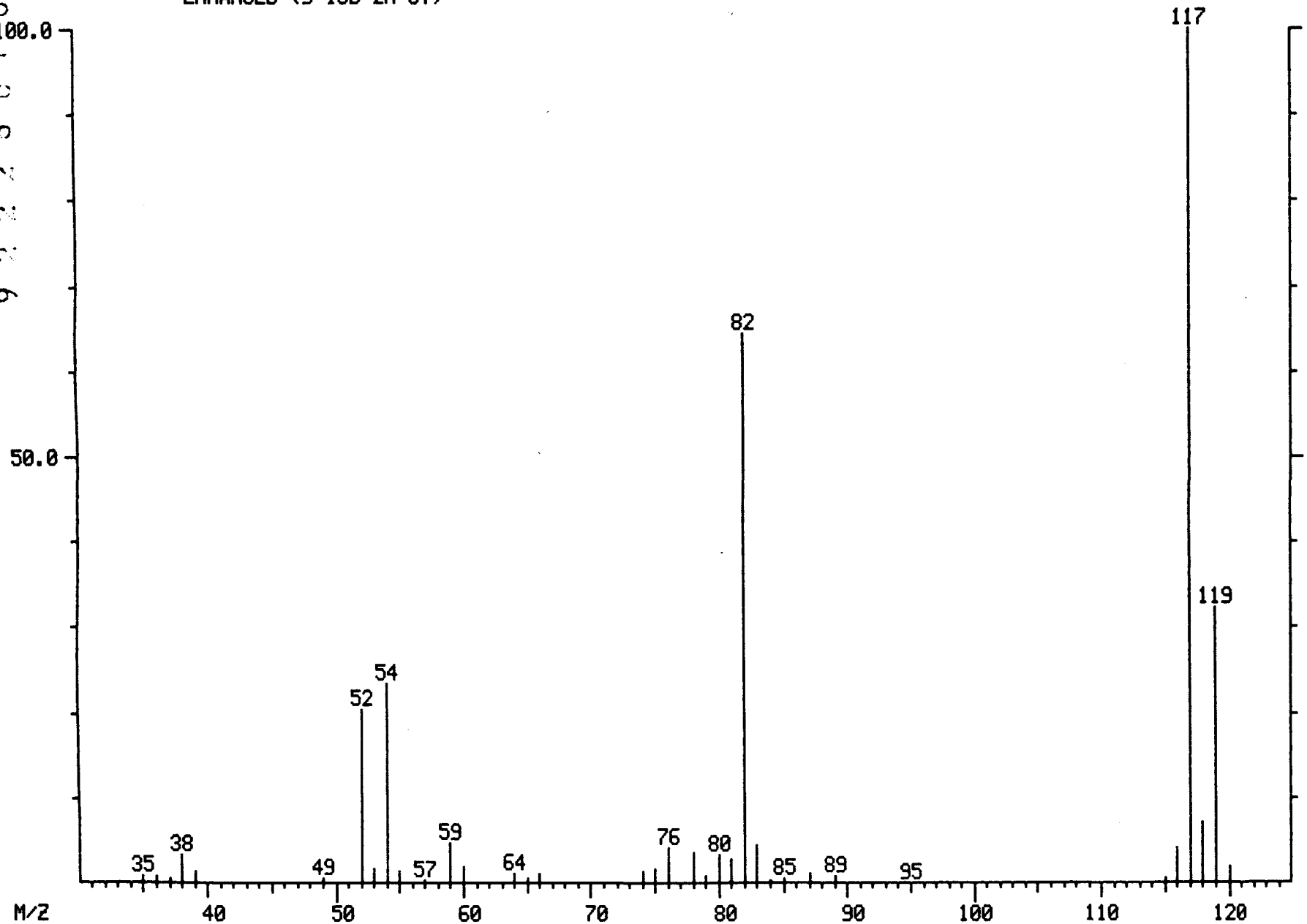


000218

MASS SPECTRUM
04/01/91 11:36:00 + 17:29
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 #1311
CALI: B0401LC04 #3

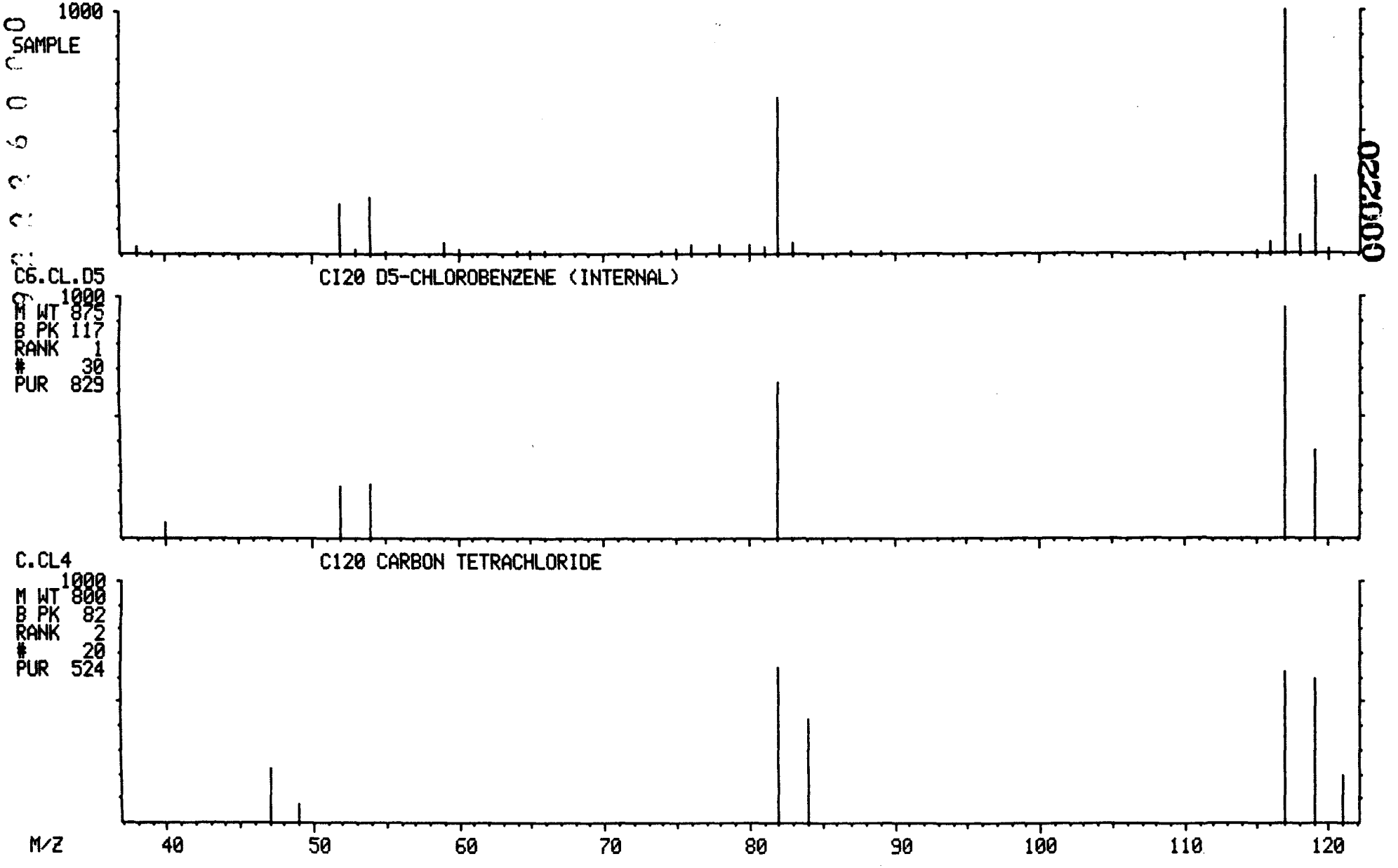
BASE M/Z: 117
RIC: 8048.



LIBRARY SEARCH
04/01/91 11:36:00 + 17:29
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 #1311
CALI: B0401LC04 # 3

BASE M/Z: 117
RIC: 7911.

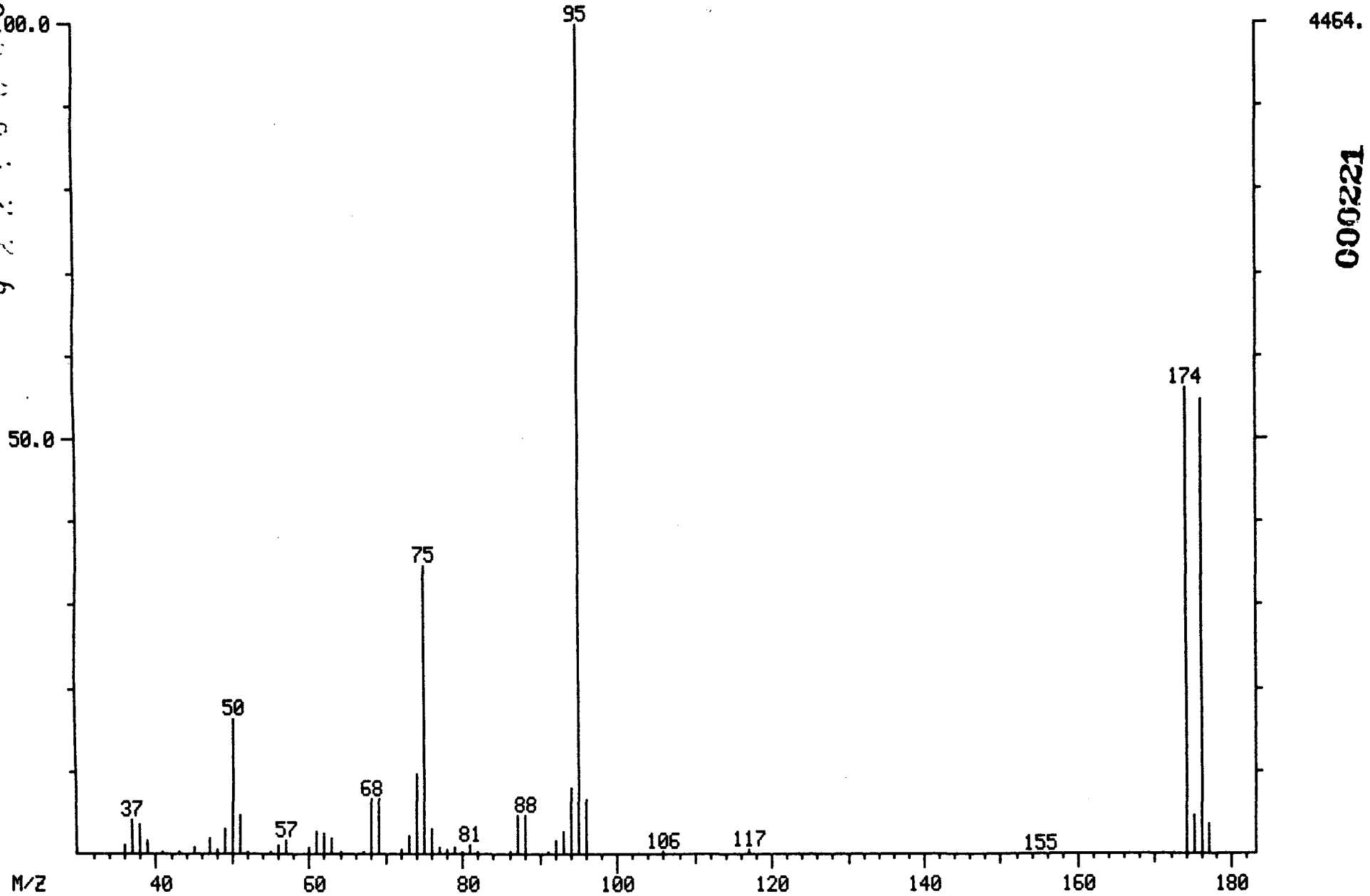


000220

MASS SPECTRUM
04/01/91 11:36:00 + 22:00
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 #1650
CALI: B0401LC04 #3

BASE M/Z: 95
RIC: 16384.

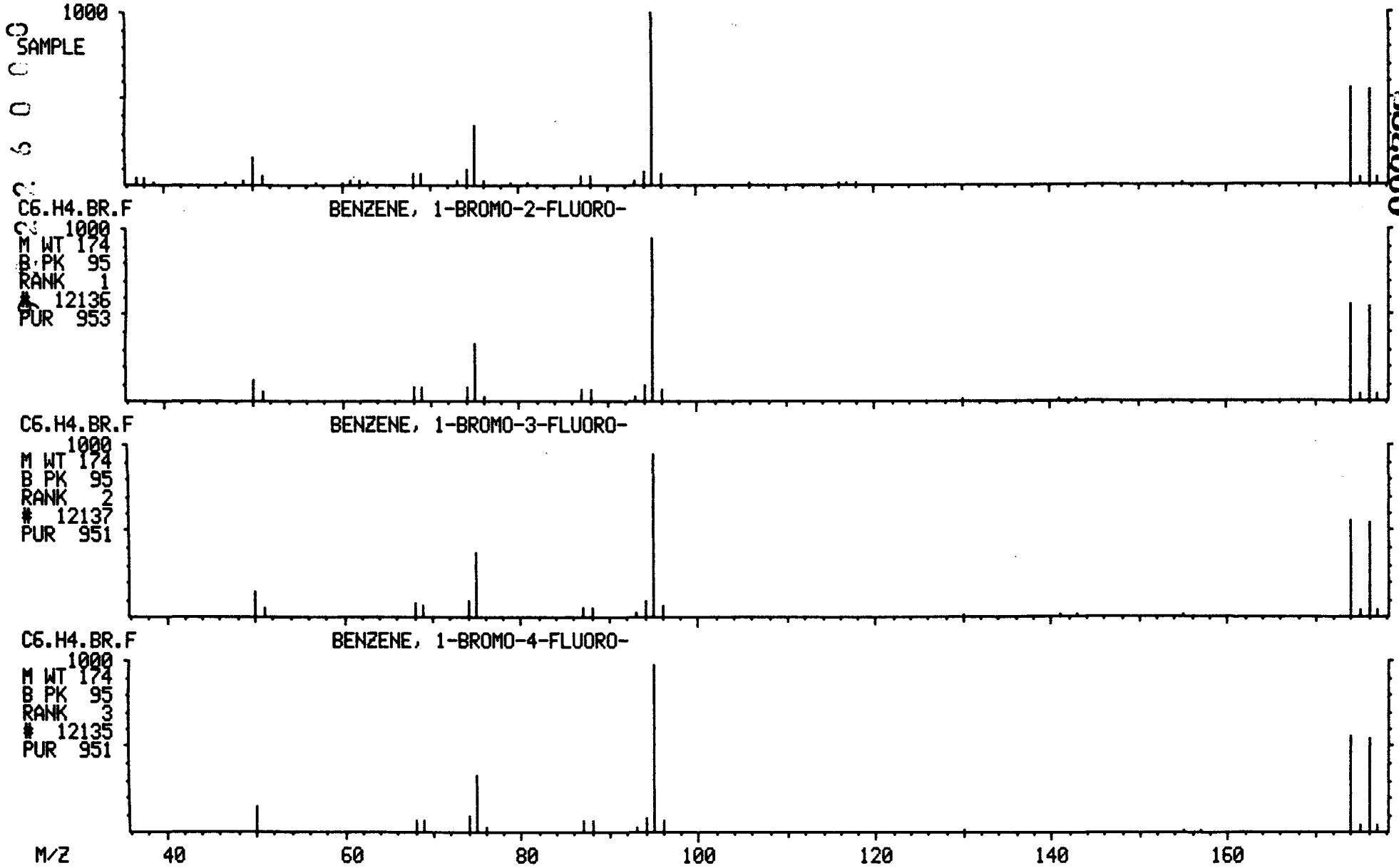


000221

LIBRARY SEARCH
04/01/91 11:36:00 + 22:00
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 #1650
CALI: B0401LC04 # 3

BASE M/Z: 95
RIC: 15935.



022000

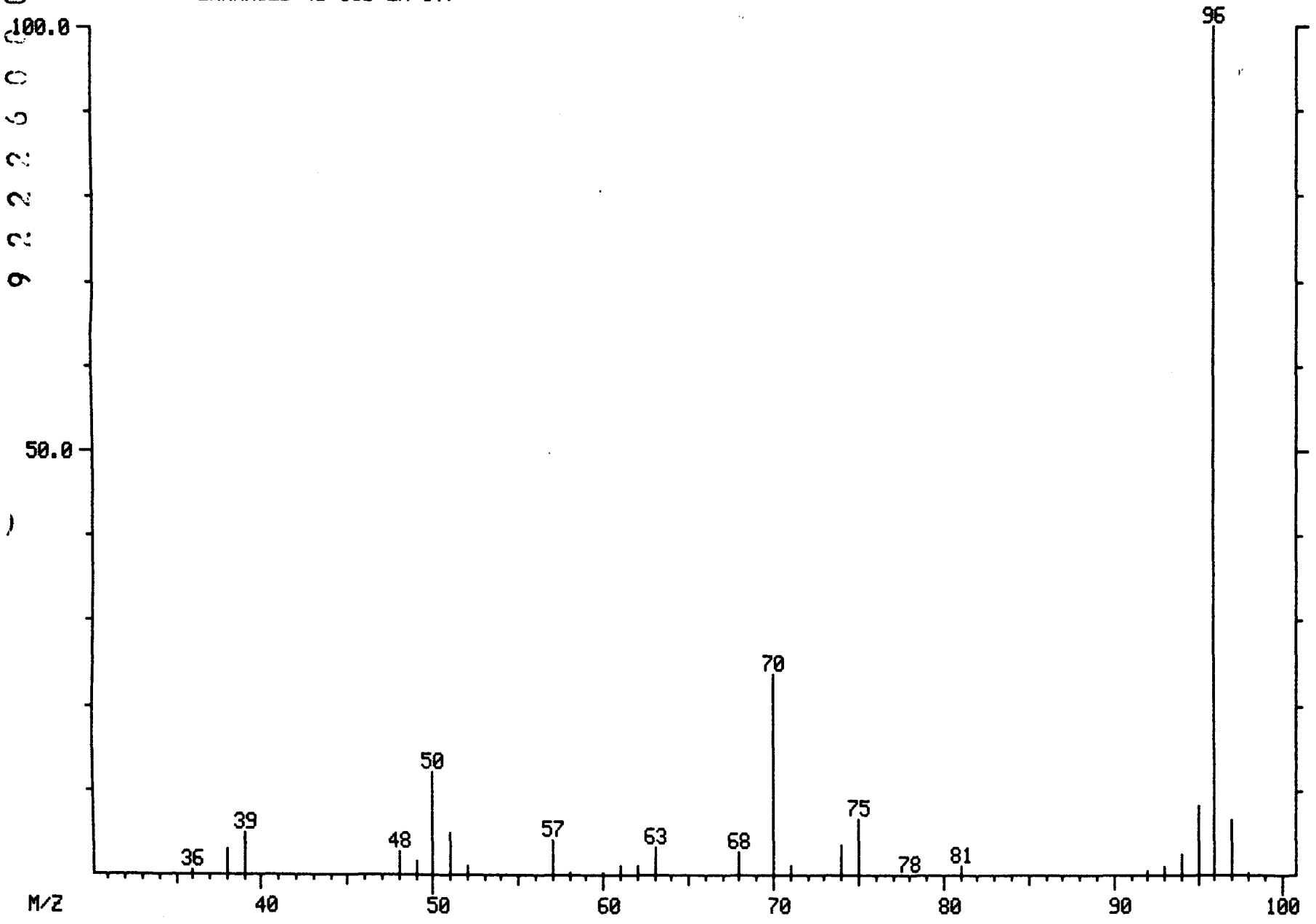
NON-TARGET COMPOUND SPECTRA

9 2 2 2 6 0 0 0 3 9 9

MASS SPECTRUM
04/01/91 11:36:00 + 6:04
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 #455
CALI: B0401LC04 #3

BASE M/Z: 96
RIC: 10608.

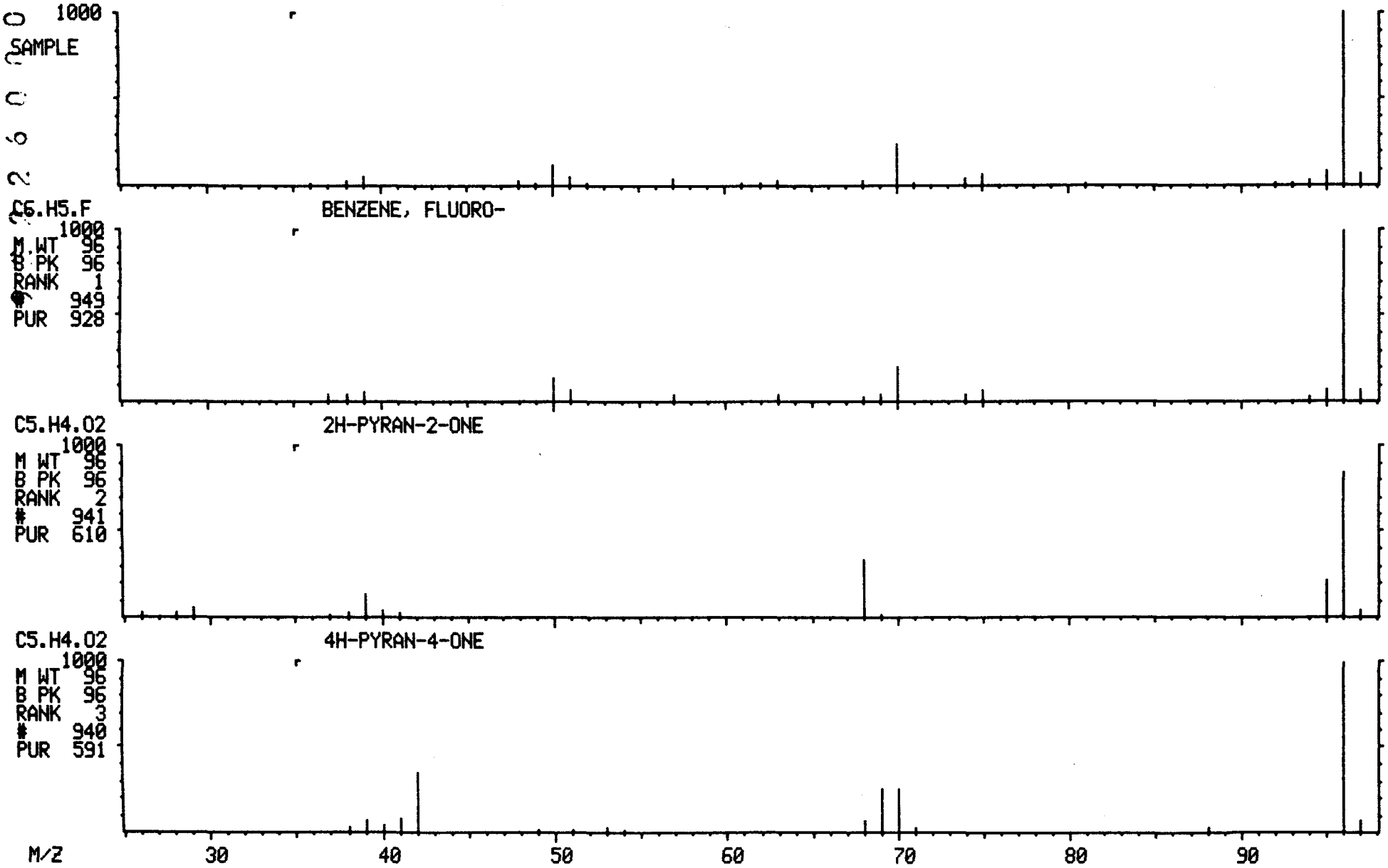


000224

LIBRARY SEARCH
04/01/91 11:36:00 + 6:04
SAMPLE: 90900, 5.0G/ 5ML H2O+SUR+INT
CONDS.:
ENHANCED (S 15B 2N 0T)

DATA: B0401LC04 # 455
CALI: B0401LC04 # 3

BASE M/Z: 96
RIC: 10559.



009225

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190901

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0329LC09

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 18 Date Analyzed: 03/29/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

9 2 2 2 6 0 0 0 9 0 2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190901

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0329LC09

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 18 Date Analyzed: 03/29/91

Column (pack/cap) WIDE Dilution Factor: 1.0

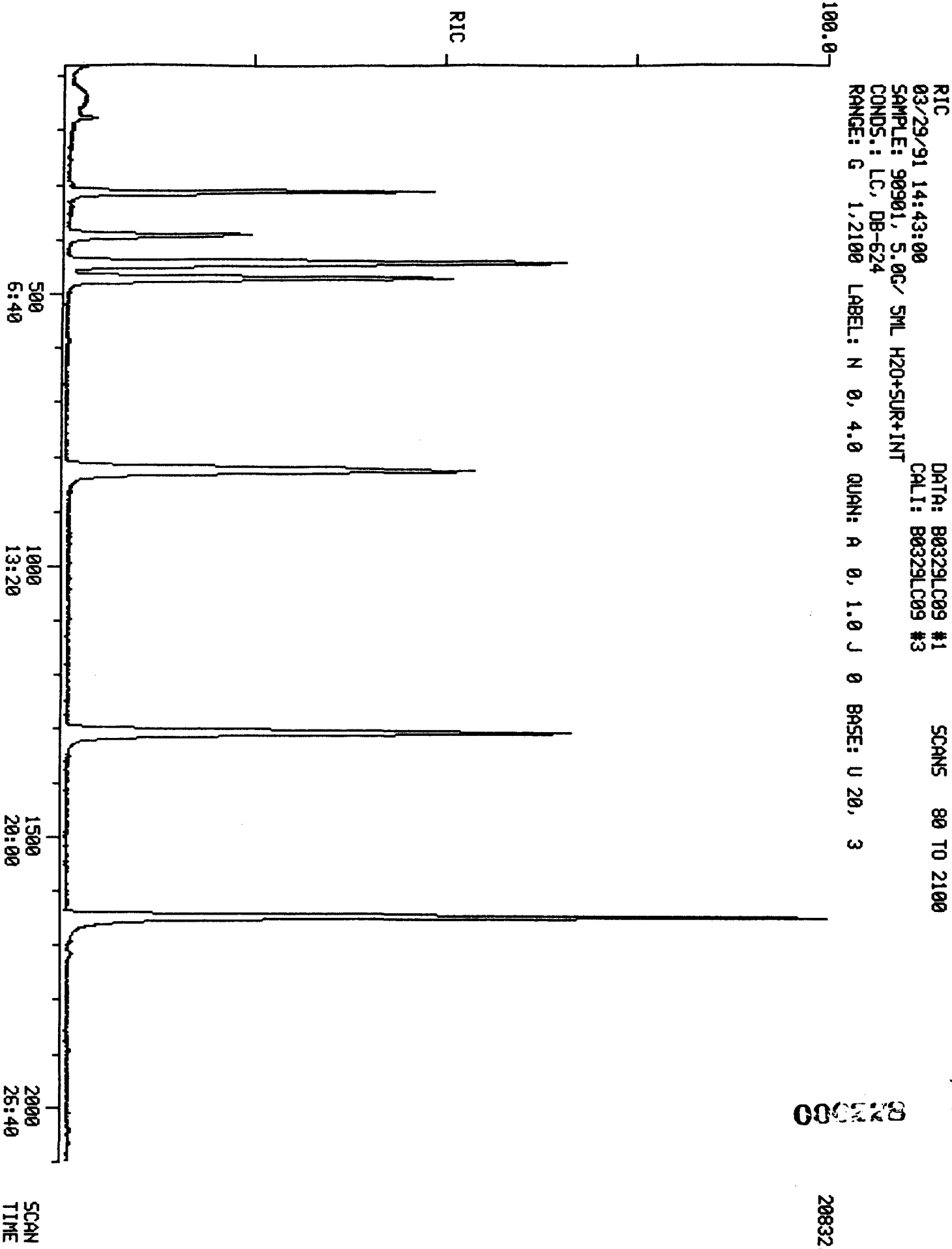
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9222600-03

TCA FINISHED, 10 FOUND
FINISHED AT: 3/29/91 17:22:25

9 2 2 2 6 0 0 0 9 0 4

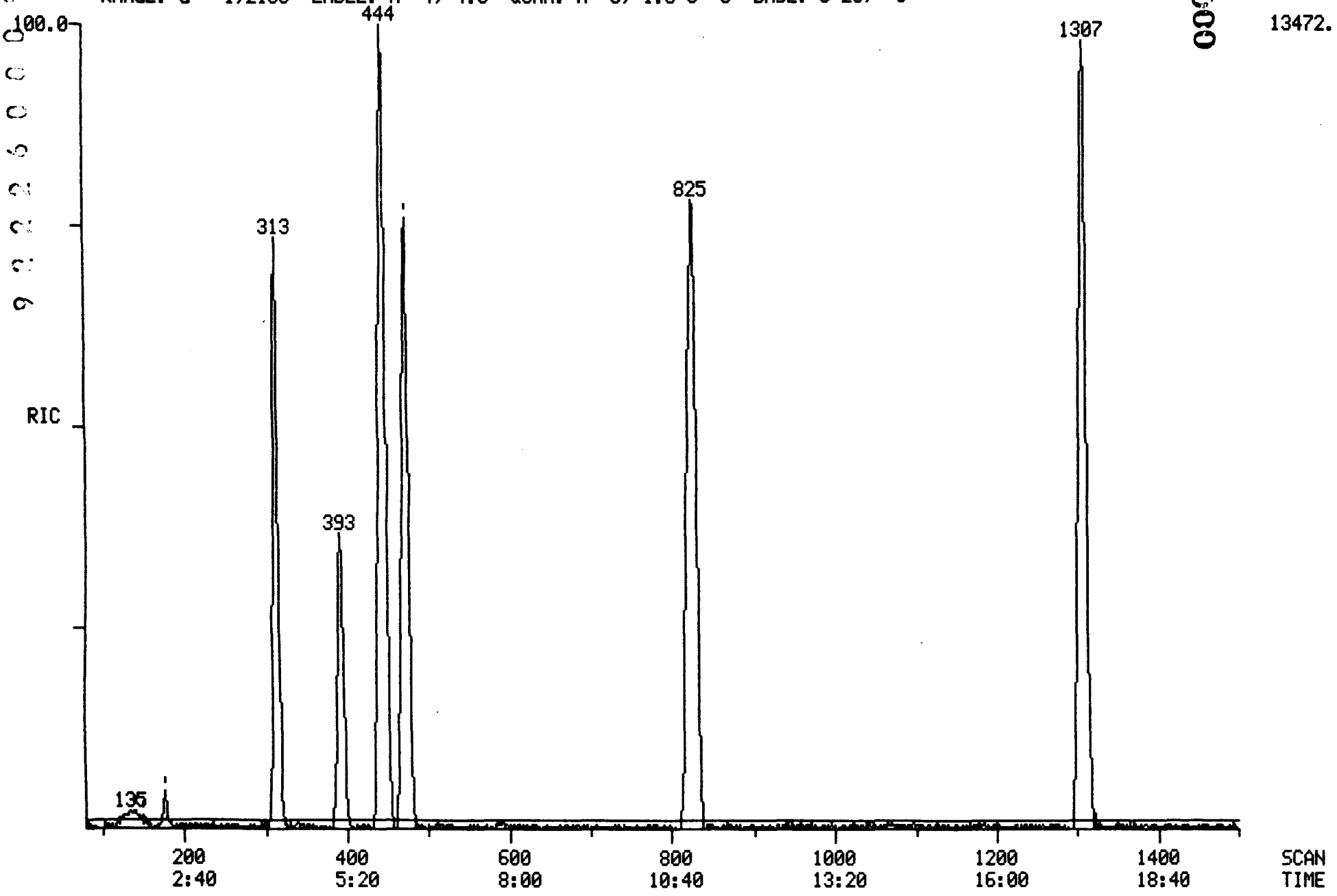


X102

0X3000

RIC
03/29/91 14:43:00
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

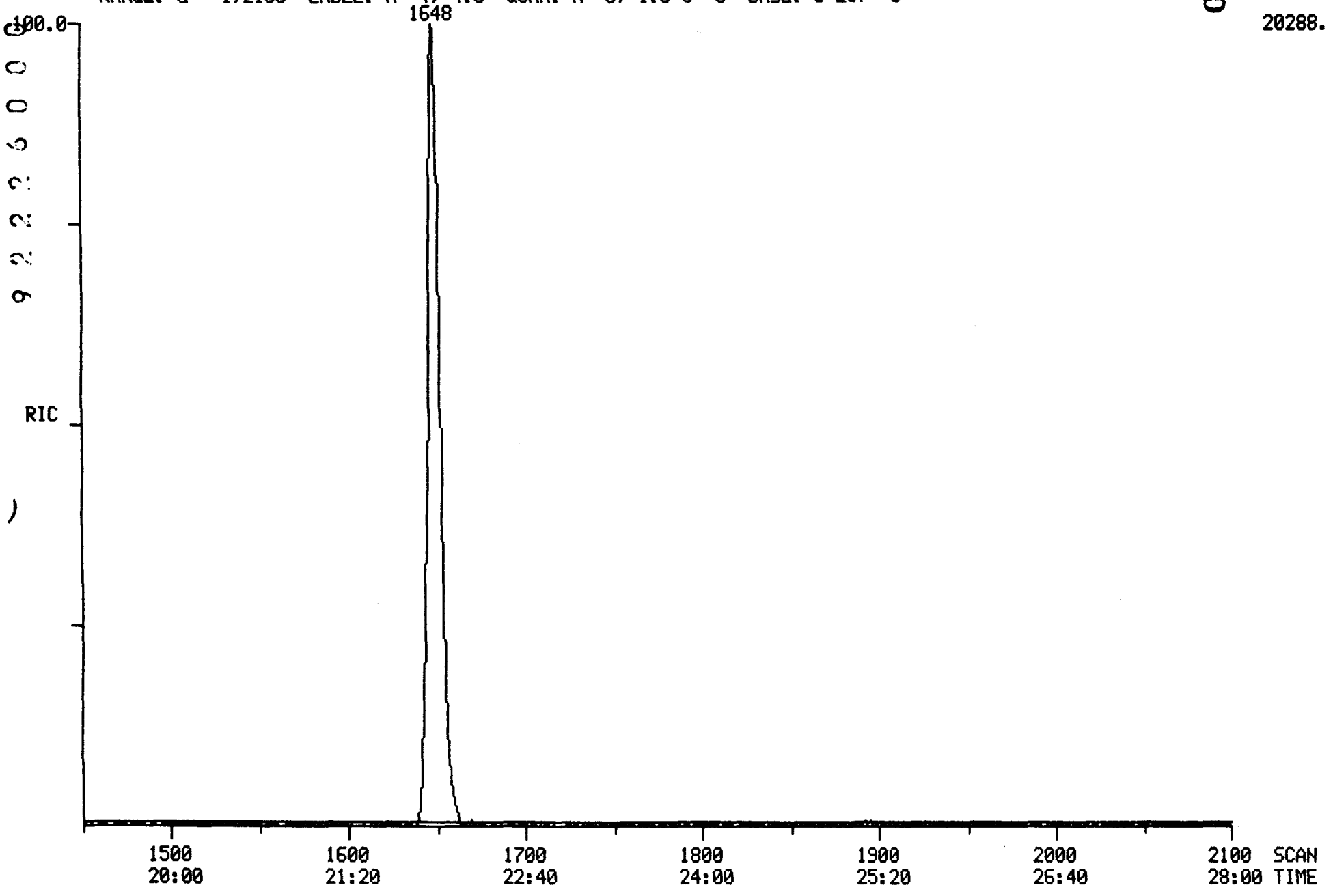
DATA: B0329LC09 #1 SCANS 80 TO 1500
CALI: B0329LC09 #3



RIC
03/29/91 14:43:00
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0329LC09 #1 SCANS 1450 TO 2100
CALI: B0329LC09 #3

000230



3/29/91 14:44:19 SCAN 1 OF 2100
Acquisition started

Acquire
03/29/91 14:43:00 + 0:02
Sample: 90901, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0329LC09
Free sectors: 8009
Instrument: 5100
Analyst: LC

Acquiring
Scan: 2 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 31 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	Time (minutes) total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.200
Samp int (ms): 0.200

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

3/29/91 15:12:22
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	7.1	1680.0	0.4	23252.	11.	14.

PROCEDURE: TCA DIAGNOSTIC REPORT 3/29/91 17:17:47
DATA FILE: B0329LC09
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 10 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	4	4	70	CLSRT1/CLSTC1
1	1	1	0	13	3	1	25	CLSRT2/CLSTC2
1	1	1	0	16	3	9	73	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 10 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------- >										
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	309	313	313	.	1	973	.	128	313	.	1
2	CS	2	-100	101	.	.	.	.	.	50	.	.	.
3	CS	3	-110	111	.	.	.	.	.	94	.	.	.
4	CS	4	-103	104	.	.	.	.	.	62	.	.	.
5	CS	5	-114	115	.	.	.	.	.	64	.	.	.
6	CS	6	177	179	178	-1	1	987	.	84	177	-1	1
7	CS	7	155	156	157	1	4	821	.	43	156	-1	1
8	CS	8	-156	157	.	.	.	.	.	76	.	.	.
9	CS	9	-145	146	.	.	.	.	.	96	.	.	.
10	CS	10	-227	229	.	.	.	.	.	63	.	.	.
11	CS	12	-323	327	.	.	.	.	.	83	326	.	2
12	CS	13	-336	340	340	.	1	821	.	97	340	.	2
13	CS	14	-119	120	.	.	.	.	.	101	.	.	.
14	CS	15	-195	197	.	.	.	.	.	96	.	.	.
15	CS	16	-283	286	.	.	.	.	.	96	.	.	.
16	CS	17	463	473	473	.	1	998	.	114	473	.	1
17	CS	18	-396	404	.	.	.	.	.	62	.	.	.
18	CS	19	294	299	299	.	1	975	.	72	300	1	2
19	CS	20	-356	363	.	.	.	.	.	117	.	.	.
20	CS	21	-232	235	.	.	.	.	.	43	235	.	1
21	CS	22	-627	642	.	.	.	.	.	83	.	.	.
22	CS	23	-548	561	.	.	.	.	.	63	.	.	.
23	CS	24	-742	760	.	.	.	.	.	75	.	.	.
24	CS	25	-499	510	.	.	.	.	.	130	511	.	2
25	CS	27	-389	397	.	.	.	.	.	78	.	.	.
26	CS	28	-730	748	.	.	.	.	.	106	.	.	.
27	CS	29	385	393	393	.	1	976	.	65	393	.	1
28	CS	43	-1500	1541	.	.	.	.	.	173	.	.	.
29	CS	30	1300	1307	1307	.	1	994	.	117	1307	.	1
30	CS	26	-1120	1129	.	.	.	.	.	129	.	.	.
31	CS	31	-999	1009	.	.	.	.	.	97	.	.	.
32	CS	32	-945	956	.	.	.	.	.	75	.	.	.
33	CS	33	-1126	1135	.	.	.	.	.	43	1137	.	2
34	CS	34	-834	846	.	.	.	.	.	43	844	.	2
35	CS	35	-998	1008	.	.	.	.	.	164	.	.	.
36	CS	36	-1724	1728	.	.	.	.	.	83	.	.	.
37	CS	37	-831	843	.	.	.	.	.	91	843	.	2
38	CS	38	-1308	1316	.	.	.	.	.	112	.	.	.
39	CS	39	-1360	1367	.	.	.	.	.	106	.	.	.
40	CS	40	-1518	1524	.	.	.	.	.	104	.	.	.
41	CS	41	-1400	1407	.	.	.	.	.	108	.	.	.
42	CS	42	-1506	1512	.	.	.	.	.	106	.	.	.
43	CS	44	1643	1648	1648	.	3	990	.	95	1649	1	1
44	CS	45	813	825	825	.	3	993	.	98	825	.	1

000233

Quantitation Report File: B0329LC09

Data: B0329LC09.TI
03/29/91 14:43:00
Sample: 90901, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	313	4:10	1	1.000	A BB	8126.	50.000 UG/G	10.70
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	177	2:22	1	0.565	A BB	637.	2.641 UG/G	0.56
7	43	156	2:05	1	0.498	A BB	58.	~~0.574~~ UG/G	0.12
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	83	326	4:21	1	1.042	A*BB	31.	~~0.061~~ UG/G	0.01
12	97	340	4:32	1	1.086	A*BB	205.	~~0.603~~ UG/G	0.13
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	114	473	6:18	16	1.000	A BB	39821.	50.000 UG/G	10.70
17	NOT FOUND								
~~18~~	72	300	4:00	16	0.634	A*BB	~~83.~~	~~2.184~~ UG/G	0.47
19	NOT FOUND								
20	43	235	3:08	16	0.497	A VB	61.	~~0.312~~ UG/G	0.07
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	130	511	6:49	16	1.080	A*BB	42.	~~0.141~~ UG/G	0.03
25	NOT FOUND								
26	NOT FOUND								
27	65	393	5:14	16	0.831	A BB	12393.	102.493 %	21.92
28	NOT FOUND								
29	117	1307	17:26	29	1.000	A BB	42624.	50.000 UG/G	10.70
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	1137	15:10	29	0.870	A*BB	75.	~~0.186~~ UG/G	0.04
34	43	844	11:15	29	0.646	A*BB	158.	~~0.329~~ UG/G	0.11
35	NOT FOUND								
36	NOT FOUND								
37	91	843	11:14	29	0.645	A*BB	110.	~~0.127~~ UG/G	0.03
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	95	1649	21:59	29	1.262	A BB	42678.	96.676 %	20.68
44	98	825	11:00	29	0.631	A BB	47483.	111.112 %	23.77

Quantitation Report File: B0329LC09A

Data: B0329LC09.TI
03/29/91 14:43:00
Sample: 90901, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	444	5:55	1	1.000	A BB	134331.	66.200	*100.

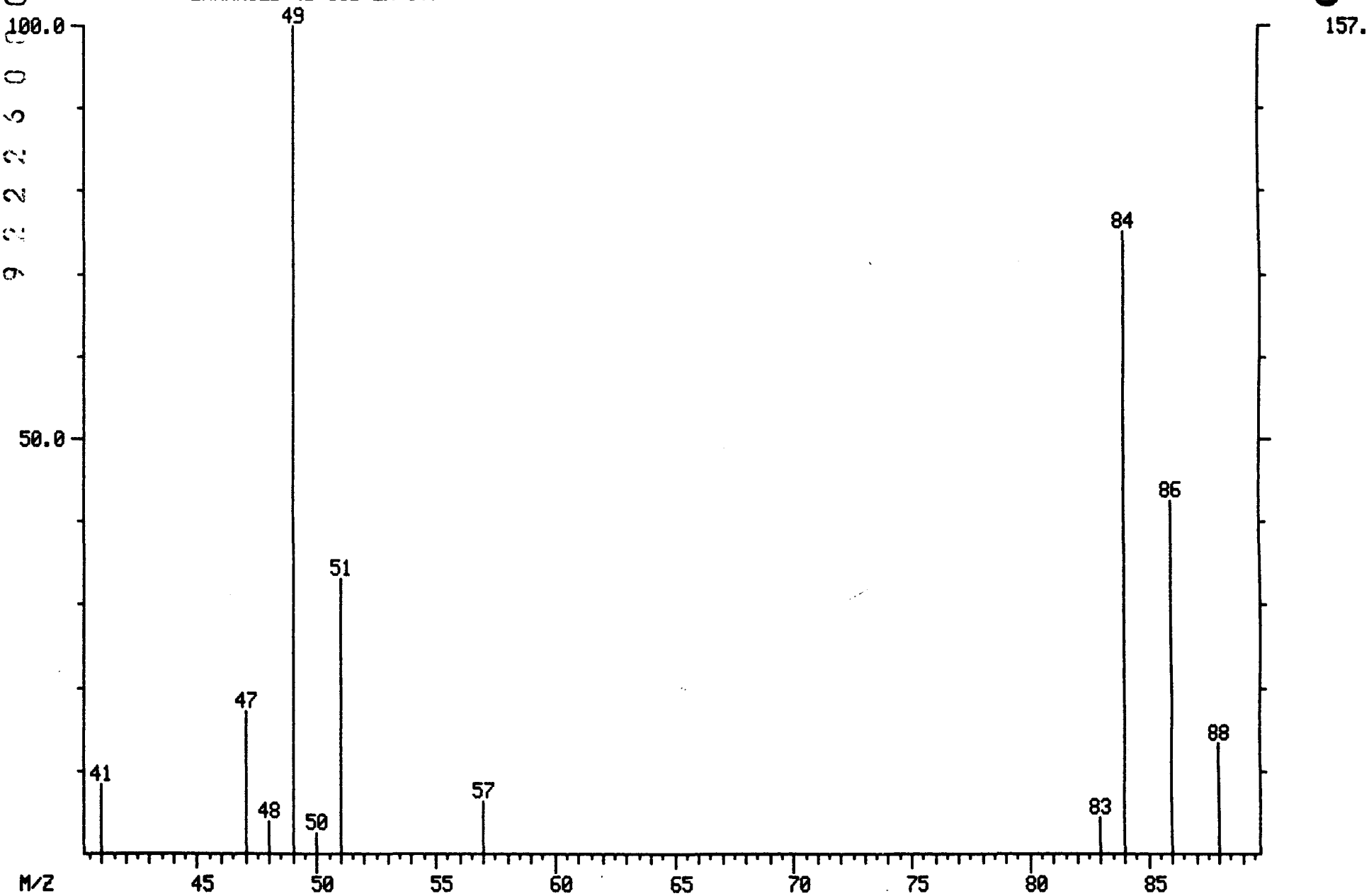
TARGET COMPOUND SPECTA

MASS SPECTRUM
03/29/91 14:43:00 + 2:22
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 #177
CALI: B0329LC09 #3

BASE M/Z: 49
RIC: 482.

000238

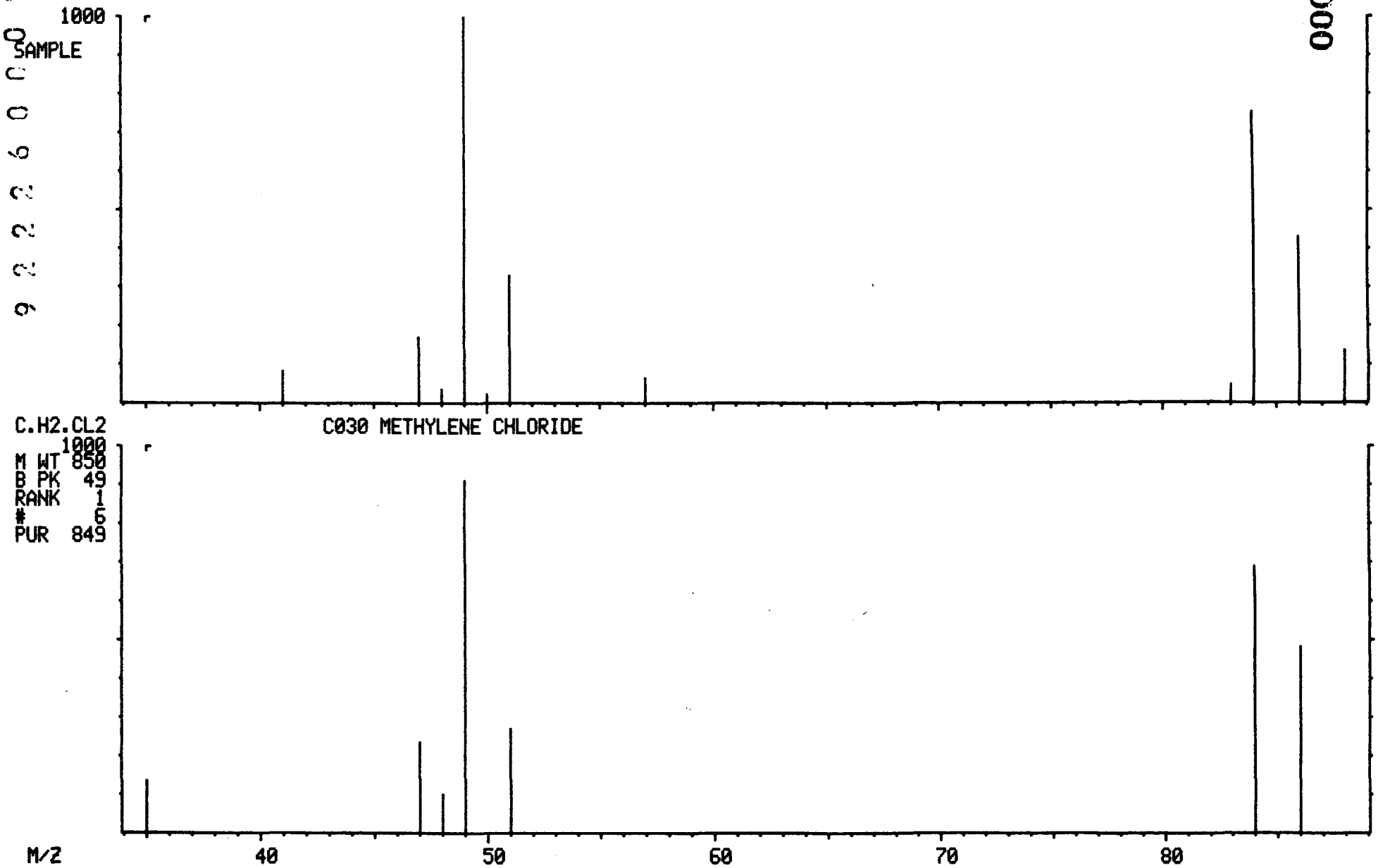


LIBRARY SEARCH
03/29/91 14:43:00 + 2:22
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 # 177
CALI: B0329LC09 # 3

BASE M/Z: 49
RIC: 481.

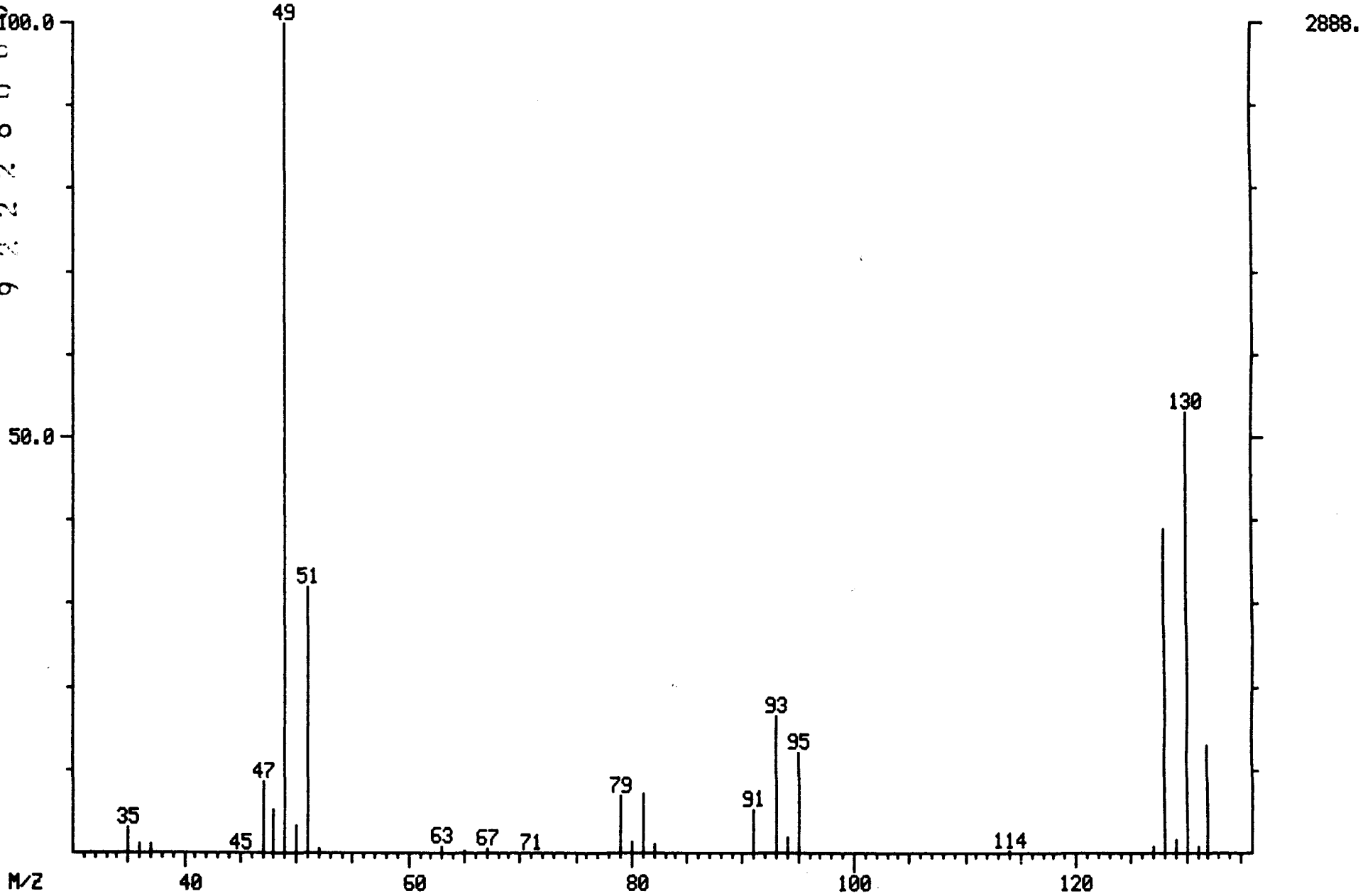
000239



MASS SPECTRUM
03/29/91 14:43:00 + 4:10
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 #313
CALI: B0329LC09 #3

BASE M/Z: 49
RIC: 9216.



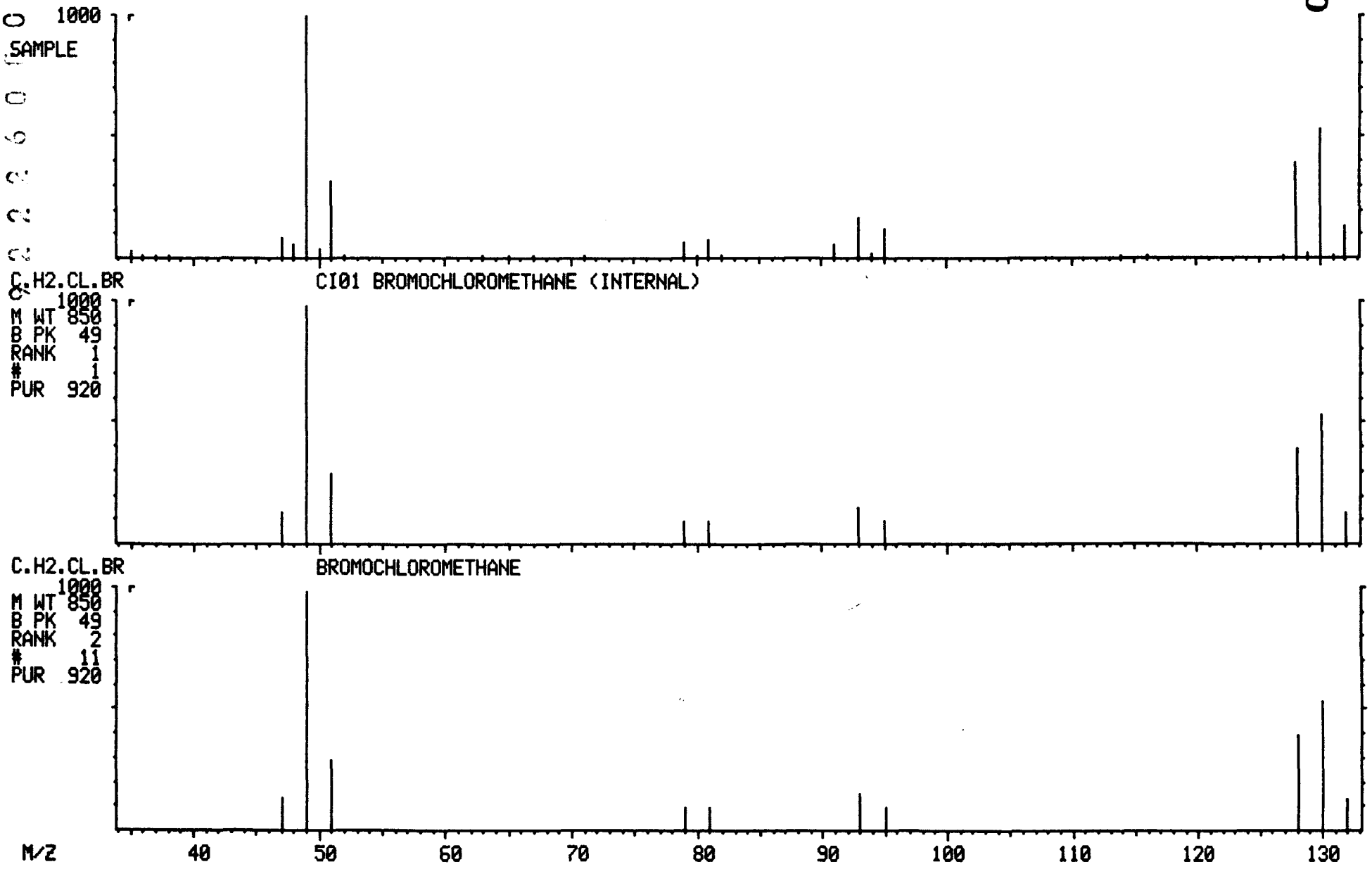
9222600916
002000

LIBRARY SEARCH
03/29/91 14:43:00 + 4:10
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 # 313
CALI: B0329LC09 # 3

BASE M/Z: 49
RIC: 9199.

000251

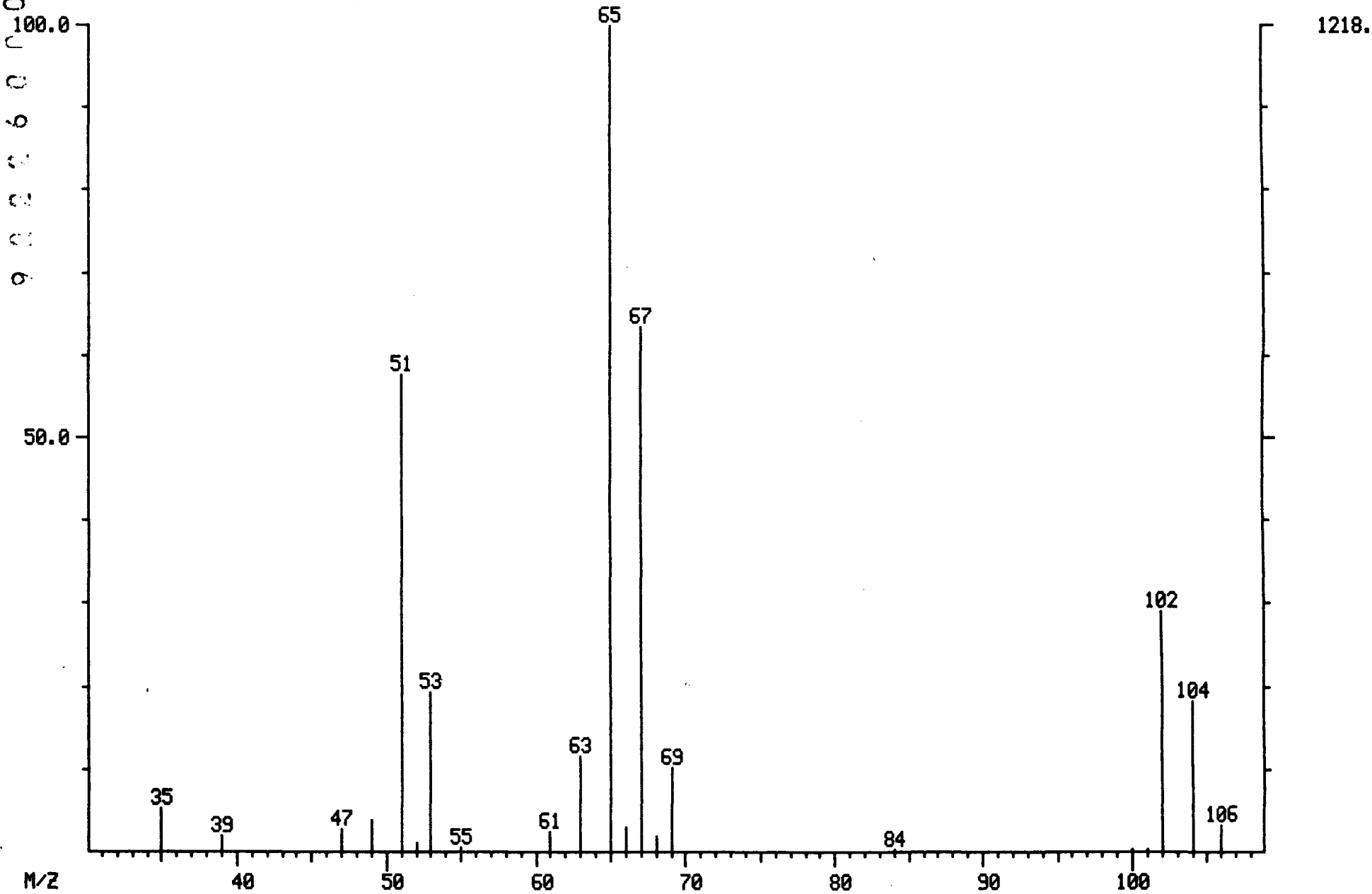


MASS SPECTRUM
03/29/91 14:43:00 + 5:14
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 #393
CALI: B0329LC09 #3

BASE M/Z: 65
RIC: 4104.

000242

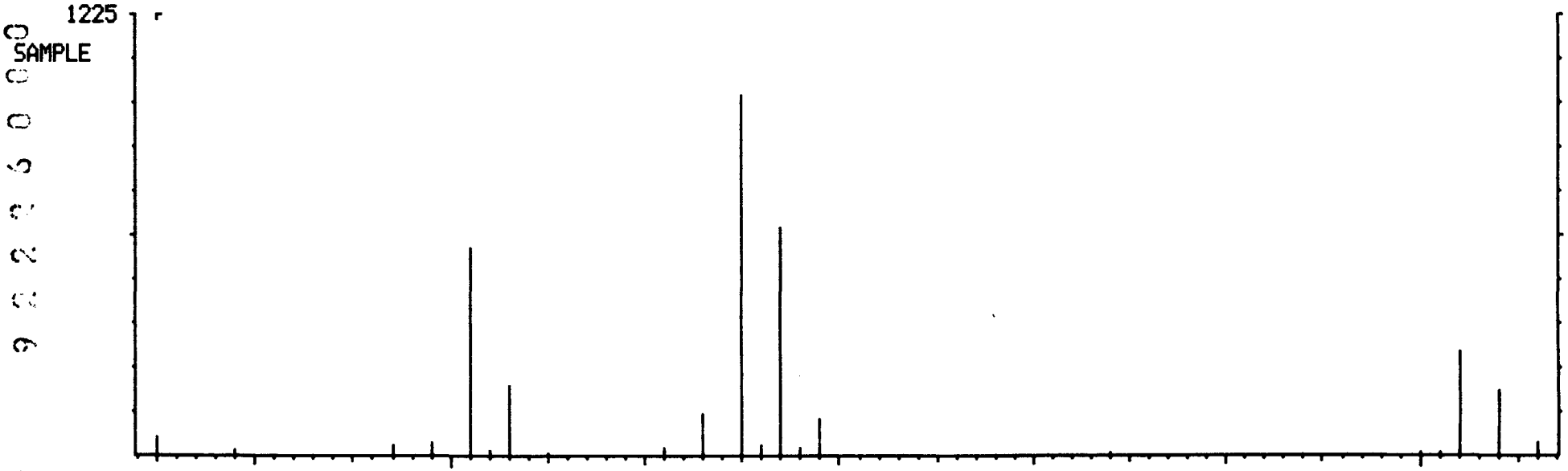


LIBRARY SEARCH
03/29/91 14:43:00 + 5:14
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

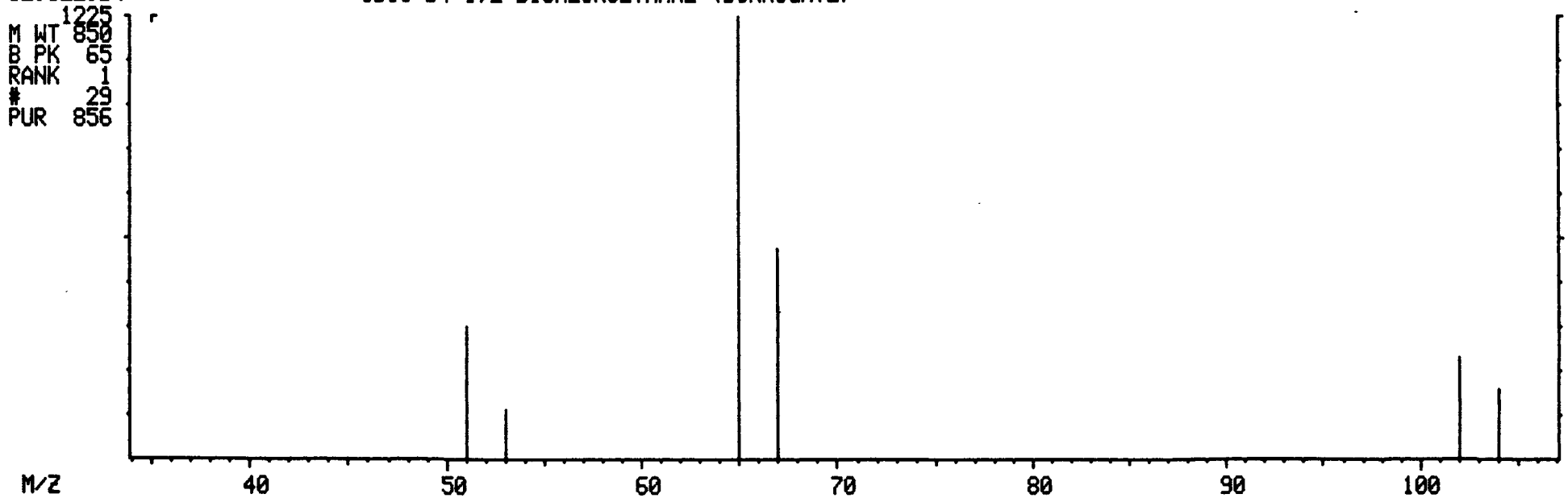
DATA: B0329LC09 # 393
CALI: B0329LC09 # 3

BASE M/Z: 65
RIC: 4103.

000243



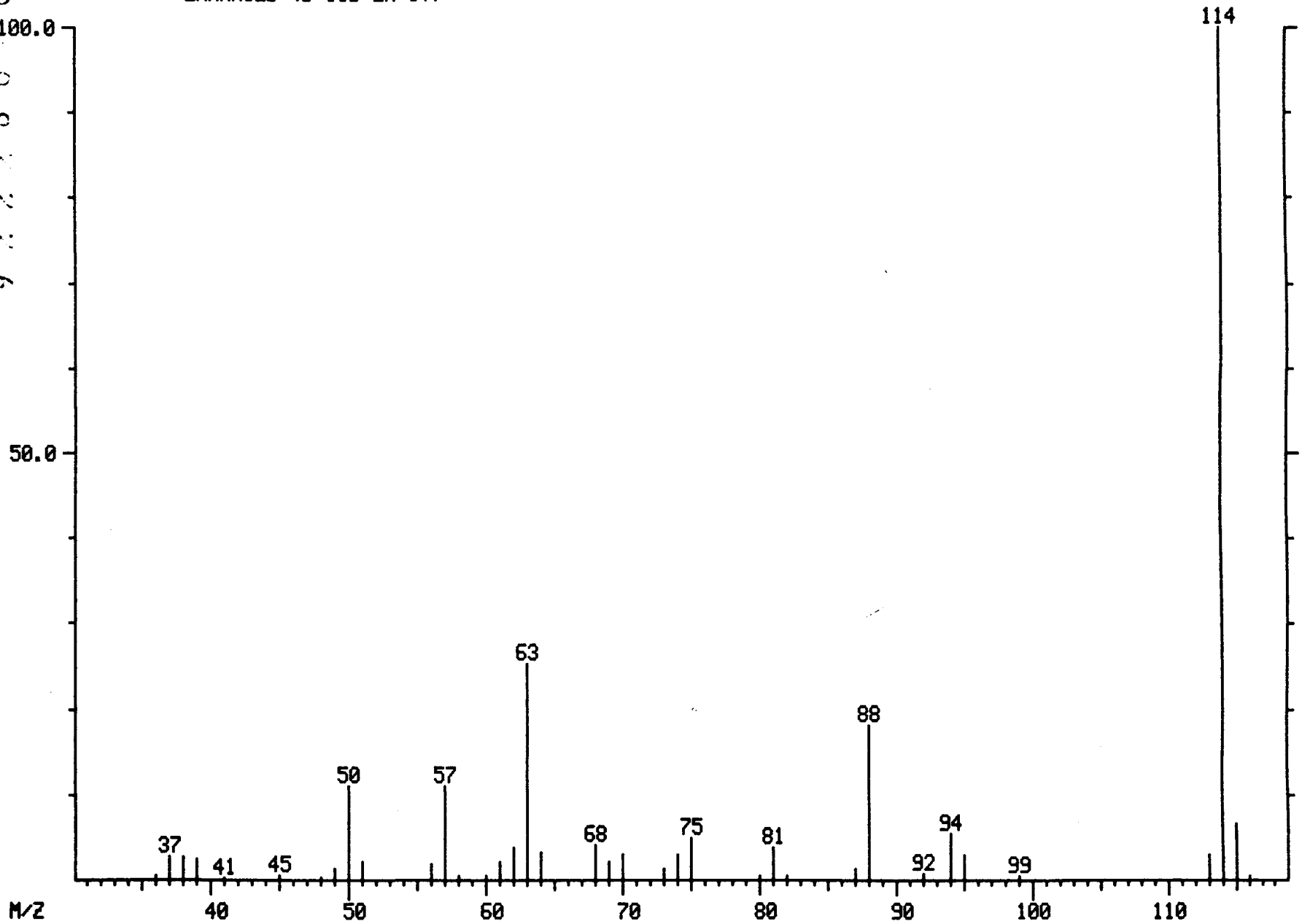
C2.CL2.D4 CS15 D4-1,2-DICHLOROETHANE (SURROGATE)



MASS SPECTRUM
03/29/91 14:43:00 + 6:18
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 #473
CALI: B0329LC09 #3

BASE M/Z: 114
RIC: 7632.



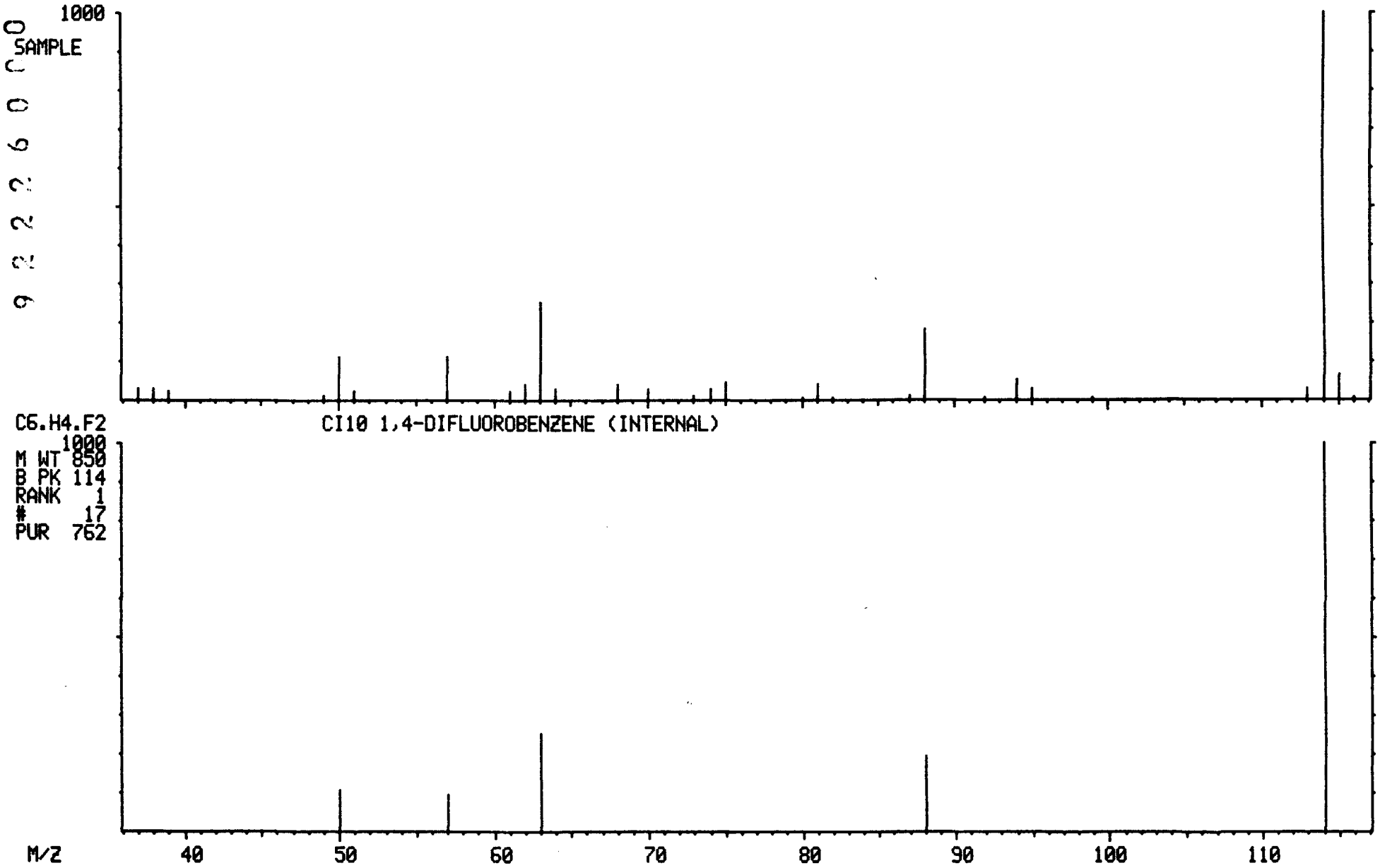
000244

LIBRARY SEARCH
03/29/91 14:43:00 + 6:18
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 # 473
CALI: B0329LC09 # 3

BASE M/Z: 114
RIC: 7407.

000245

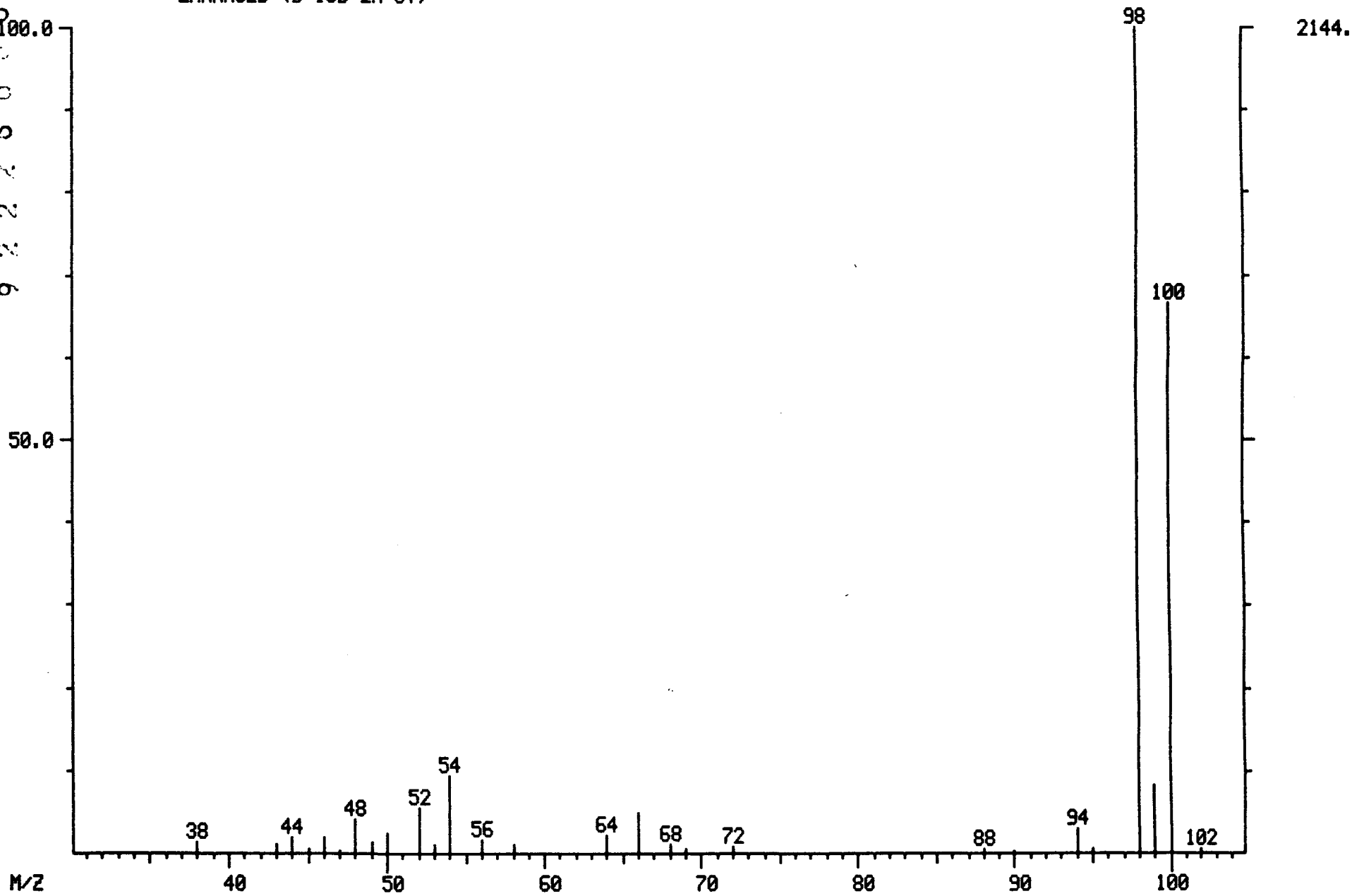


MASS SPECTRUM
03/29/91 14:43:00 + 11:00
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 #825
CALI: B0329LC09 #3

BASE M/Z: 98
RIC: 4792.

000246

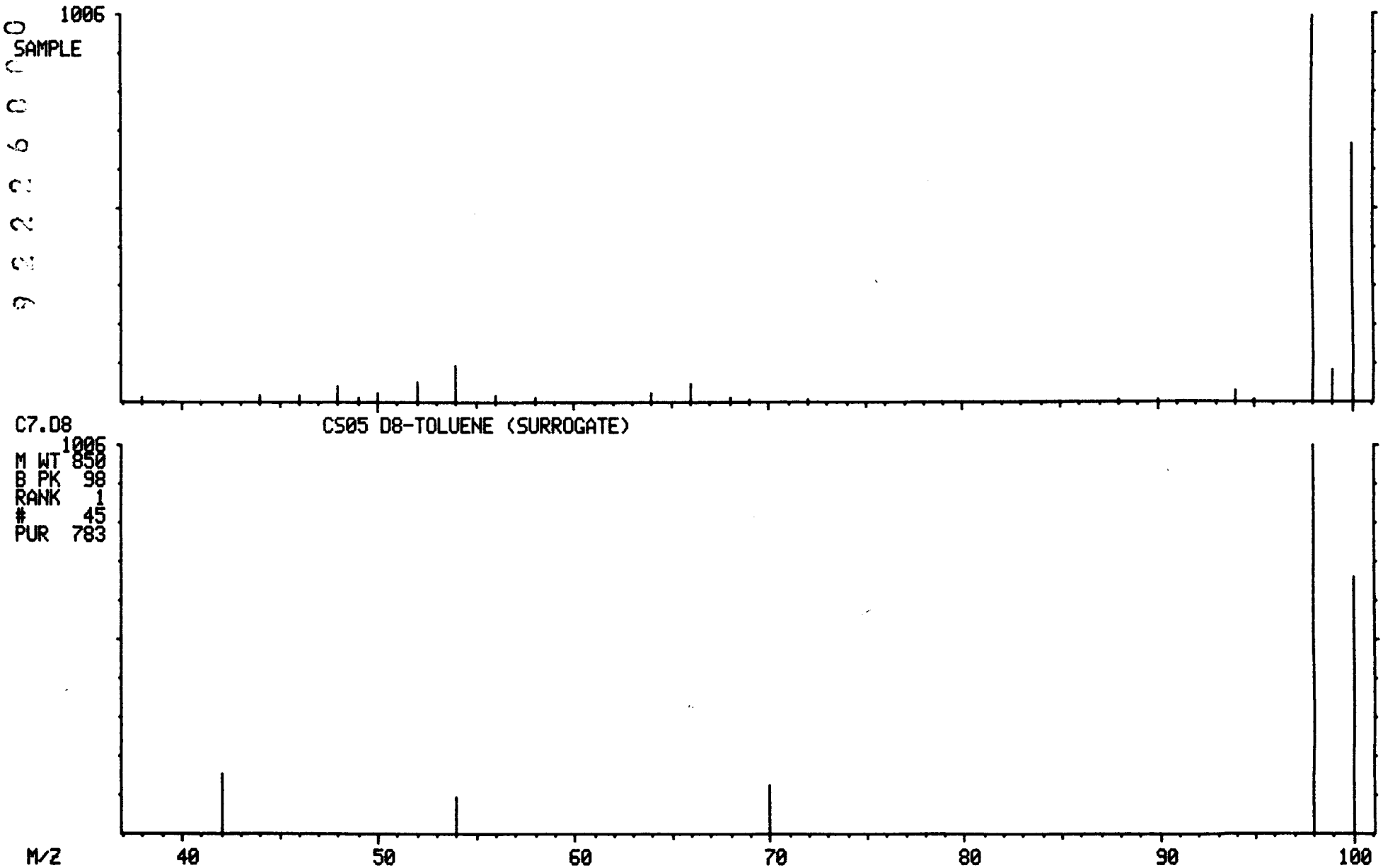


LIBRARY SEARCH
03/29/91 14:43:00 + 11:00
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 # 825
CALI: B0329LC09 # 3

BASE M/Z: 98
RIC: 4719.

000247

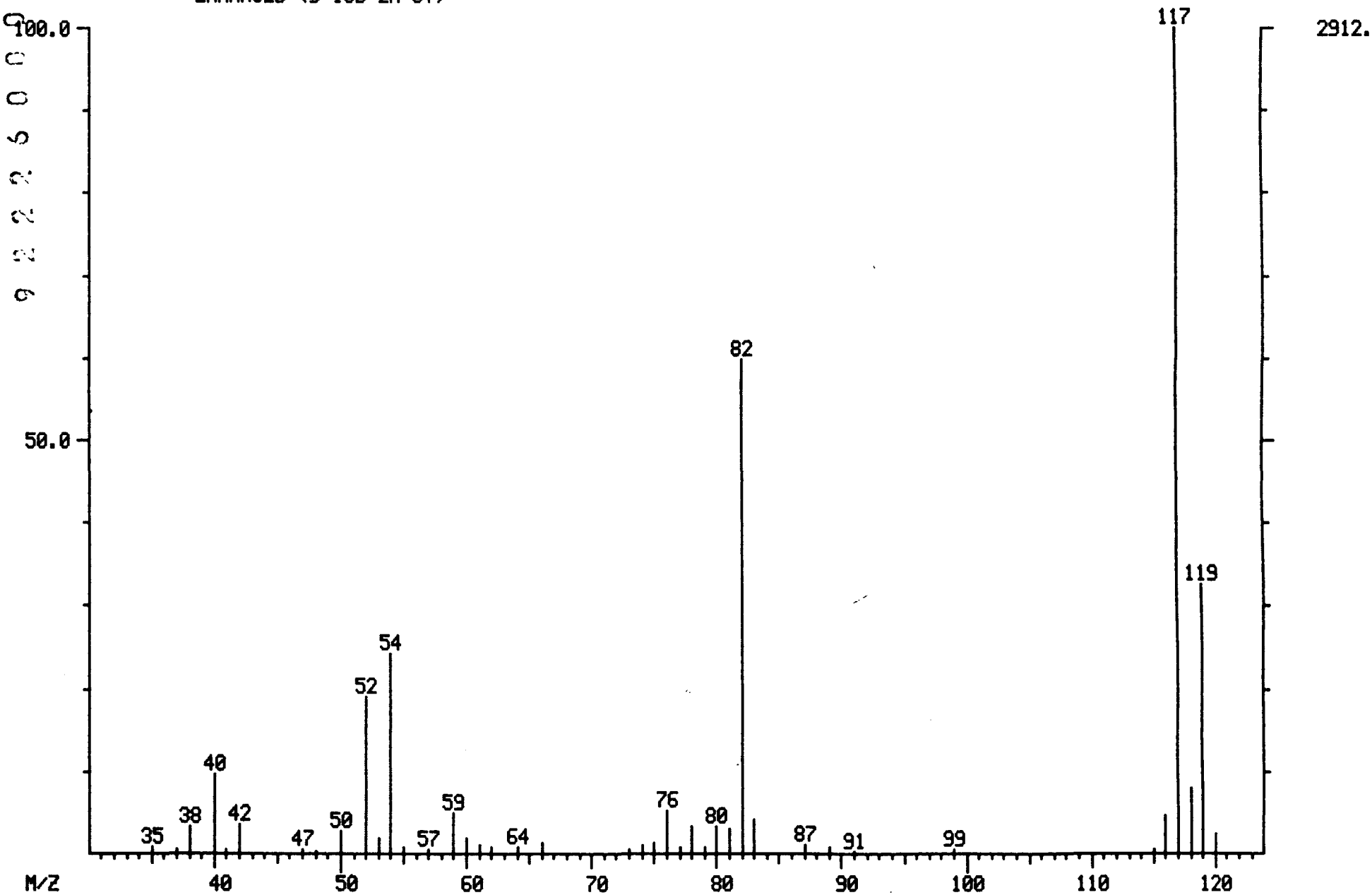


MASS SPECTRUM
03/29/91 14:43:00 + 17:26
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 #1307
CALI: B0329LC09 #3

BASE M/Z: 117
RIC: 9168.

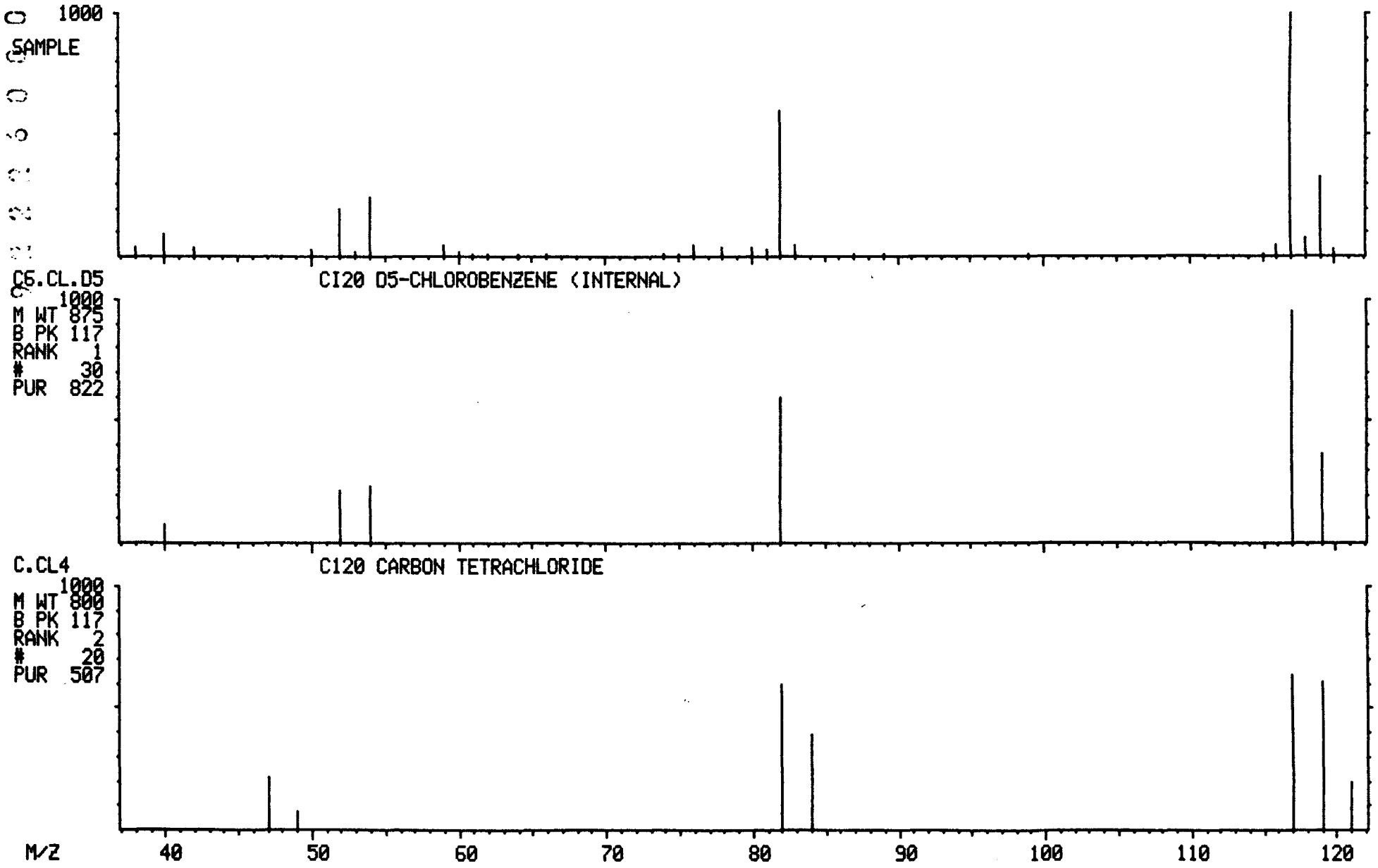
000248



LIBRARY SEARCH
03/29/91 14:43:00 + 17:26
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 #1307
CALI: B0329LC09 # 3

BASE M/Z: 117
RIC: 8975.

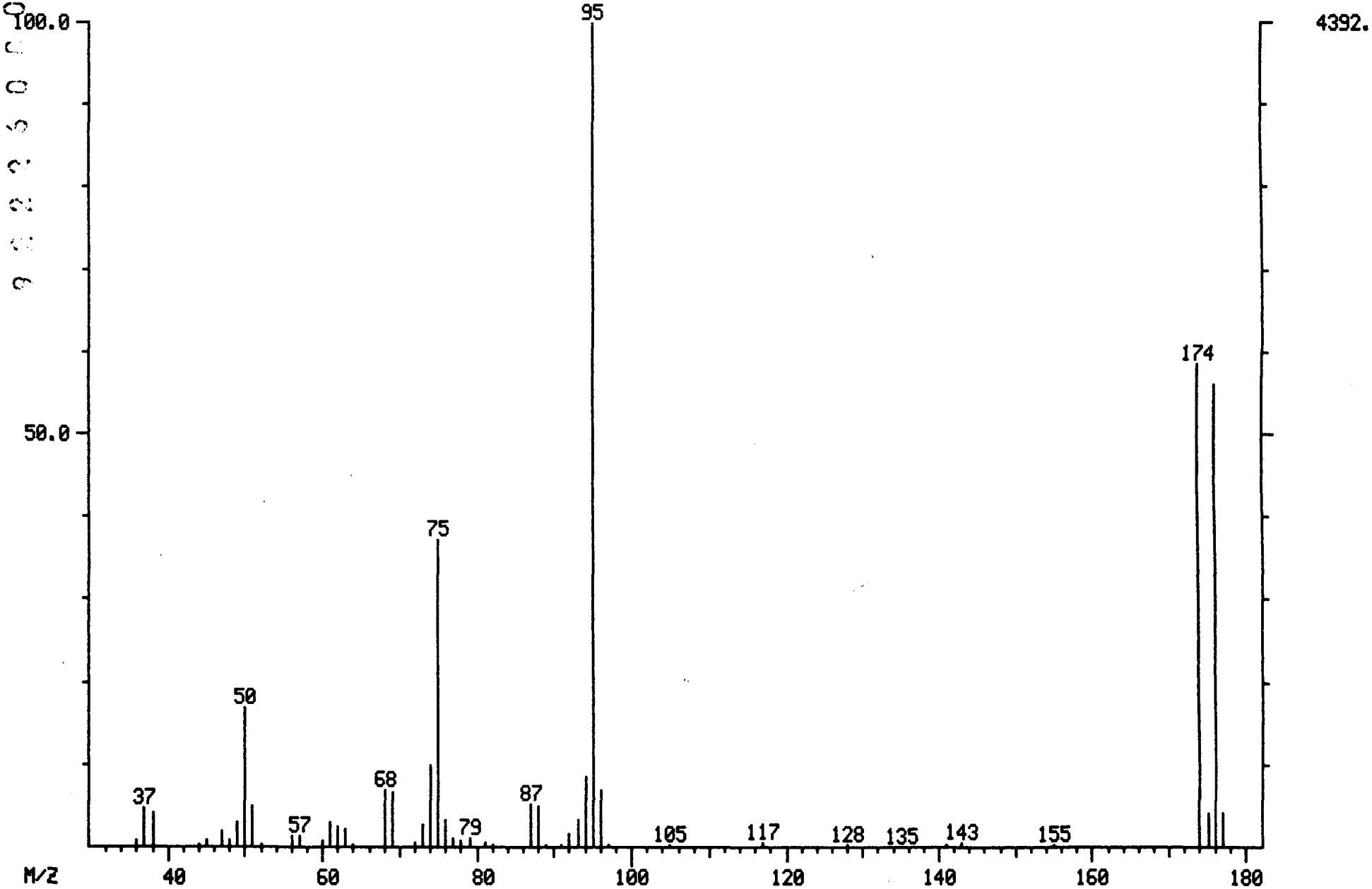


MASS SPECTRUM
03/29/91 14:43:00 + 21:59
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 #1649
CALI: B0329LC09 #3

BASE M/Z: 95
RIC: 16704.

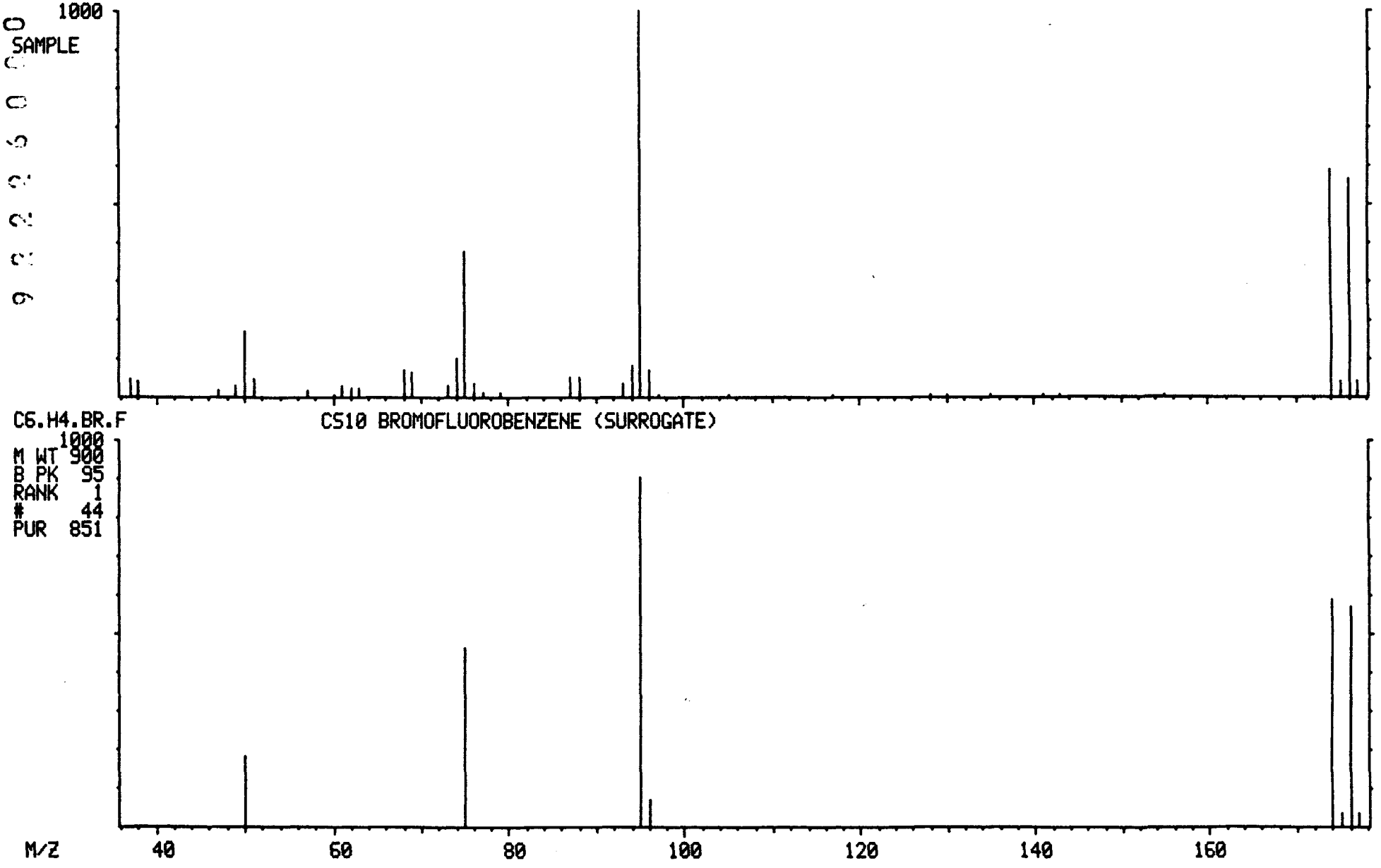
000250



LIBRARY SEARCH
03/29/91 14:43:00 + 21:59
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 #1649
CALI: B0329LC09 # 3

BASE M/Z: 95
RIC: 16255.

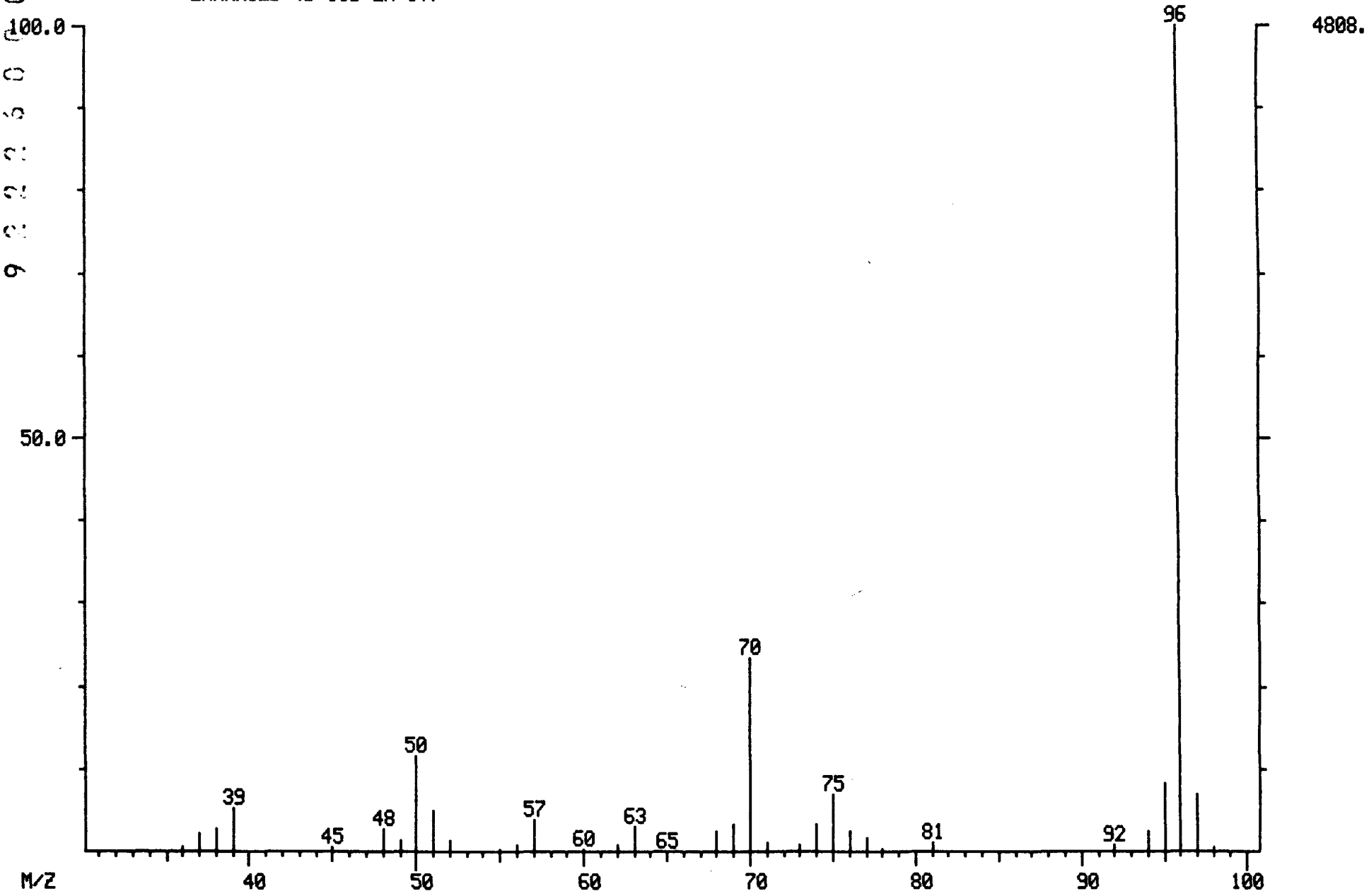


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
03/29/91 14:43:00 + 5:55
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 #444
CALI: B0329LC09 #3

BASE M/Z: 96
RIC: 10096.



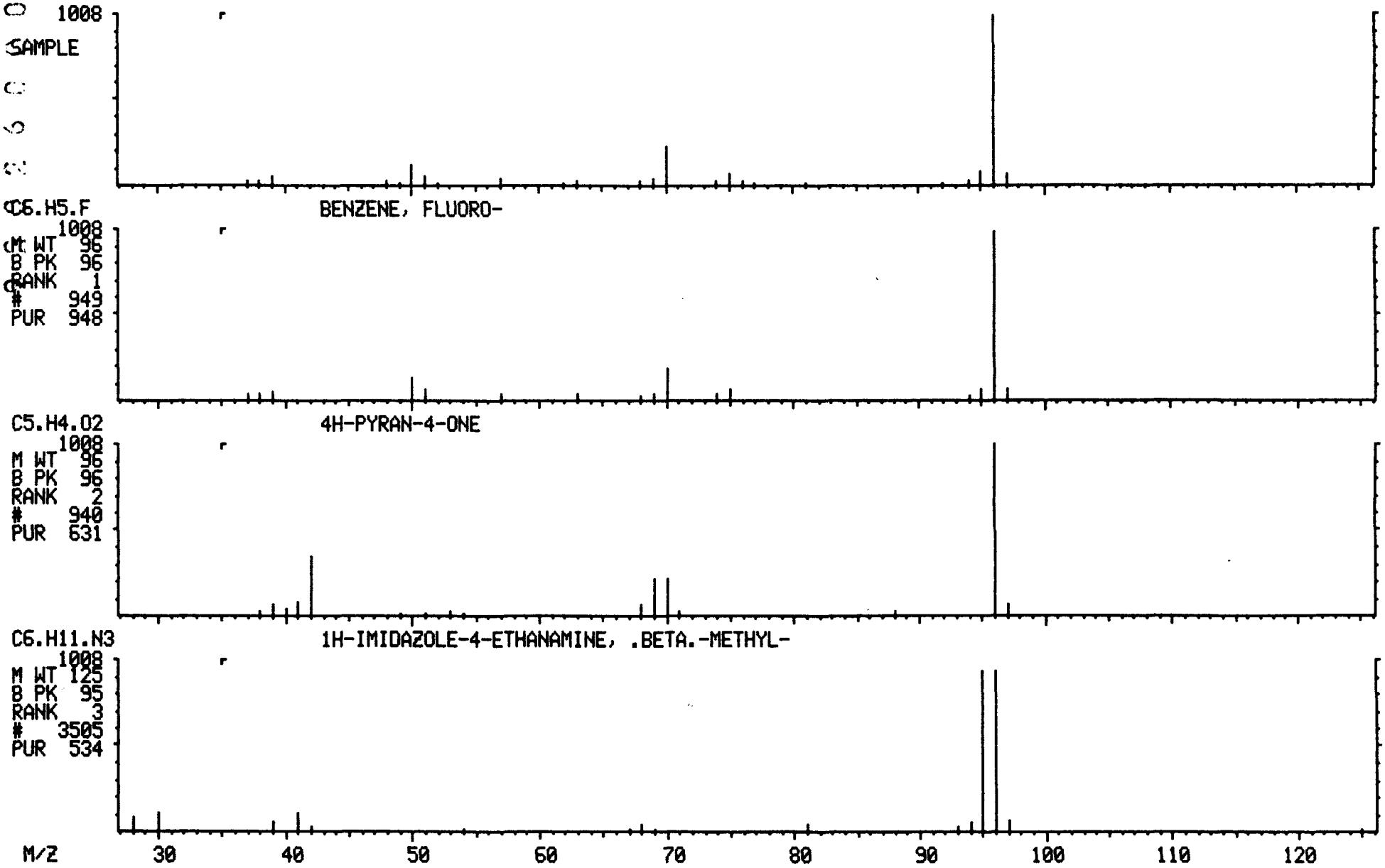
000253

LIBRARY SEARCH
03/29/91 14:43:00 + 5:55
SAMPLE: 90901, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC09 # 444
CALI: B0329LC09 # 3

BASE M/Z: 96
RIC: 9823.

000254



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190902

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0402LC09

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 24 Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	66	U
74-83-9	Bromomethane	66	U
75-01-4	Vinyl Chloride	66	U
75-00-3	Chloroethane	66	U
75-09-2	Methylene Chloride	33	U
67-64-1	Acetone	3500	E
75-15-0	Carbon Disulfide	33	U
75-35-4	1,1-Dichloroethene	33	U
75-34-3	1,1-Dichloroethane	33	U
540-59-0	1,2-Dichloroethene (total)	33	U
67-66-3	Chloroform	33	U
107-06-2	1,2-Dichloroethane	33	U
78-93-3	2-Butanone	390	
71-55-6	1,1,1-Trichloroethane	33	U
56-23-5	Carbon Tetrachloride	33	U
108-05-4	Vinyl Acetate	66	U
75-27-4	Bromodichloromethane	33	U
78-87-5	1,2-Dichloropropane	33	U
10061-01-5	cis-1,3-Dichloropropene	33	U
79-01-6	Trichloroethene	33	U
124-48-1	Dibromochloromethane	33	U
79-00-5	1,1,2-Trichloroethane	33	U
71-43-2	Benzene	33	U
10061-02-6	trans-1,3-Dichloropropene	33	U
75-25-2	Bromoform	33	U
108-10-1	4-Methyl-2-Pentanone	66	U
591-78-6	2-Hexanone	66	U
127-18-4	Tetrachloroethene	33	U
79-34-5	1,1,2,2-Tetrachloroethane	33	U
108-88-3	Toluene	33	U
108-90-7	Chlorobenzene	33	U
100-41-4	Ethylbenzene	33	U
100-42-5	Styrene	33	U
1330-20-7	Xylene (total)	33	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190902

Sample wt/vol: 1.0 (g/mL) G Lab File ID: B0402LC09

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 24 Date Analyzed: 04/02/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOW	7.17	18	J

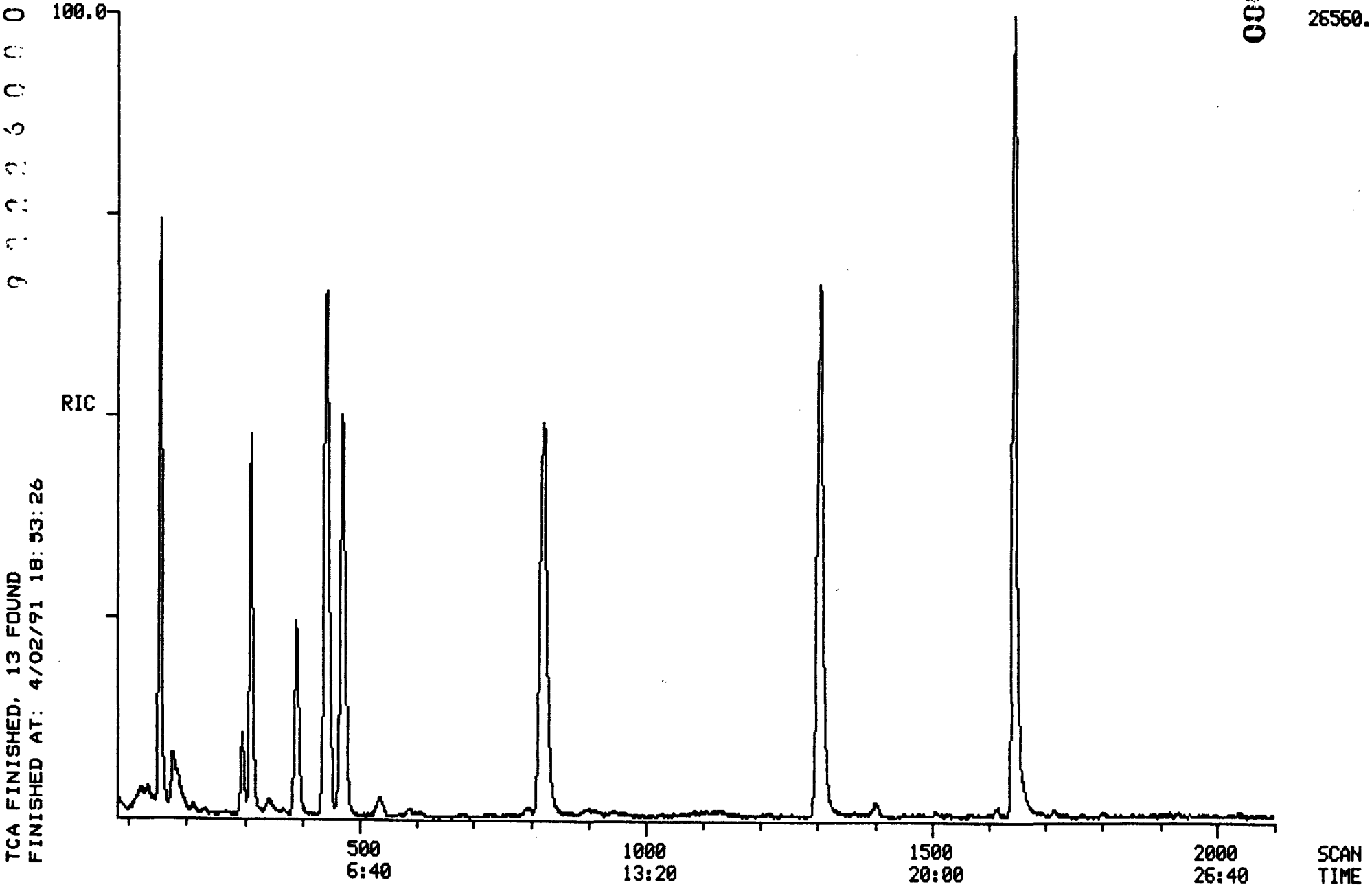
000256

X103

RIC
04/02/91 15:11:00
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC09 #1
CALI: B0402LC09 #3

SCANS 80 TO 2100



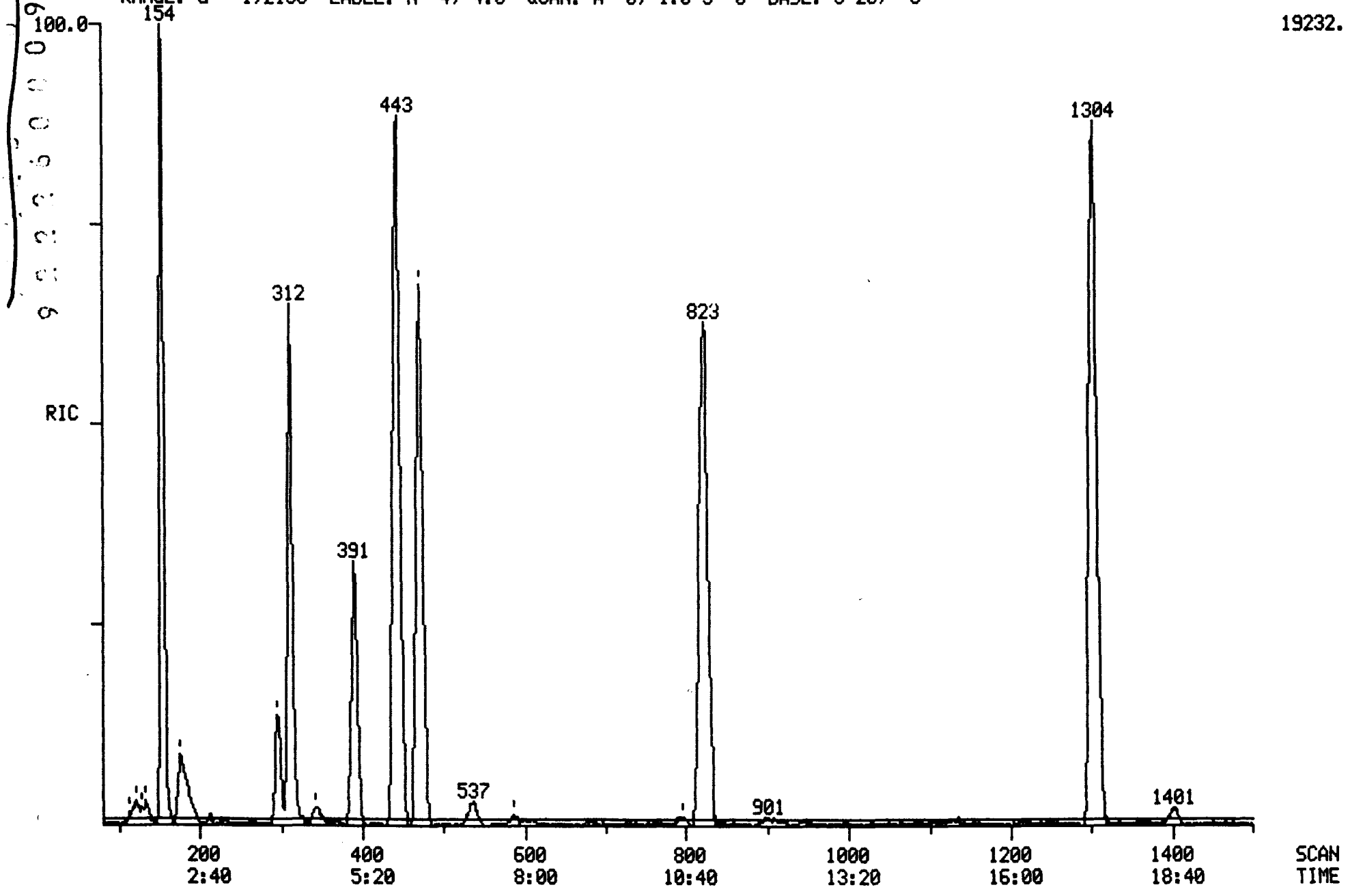
TCA FINISHED, 13 FOUND
FINISHED AT: 4/02/91 18:53:26

0002517

RIC
04/02/91 15:11:00
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC09 #1 SCANS 80 TO 1500
CALI: B0402LC09 #3

000258

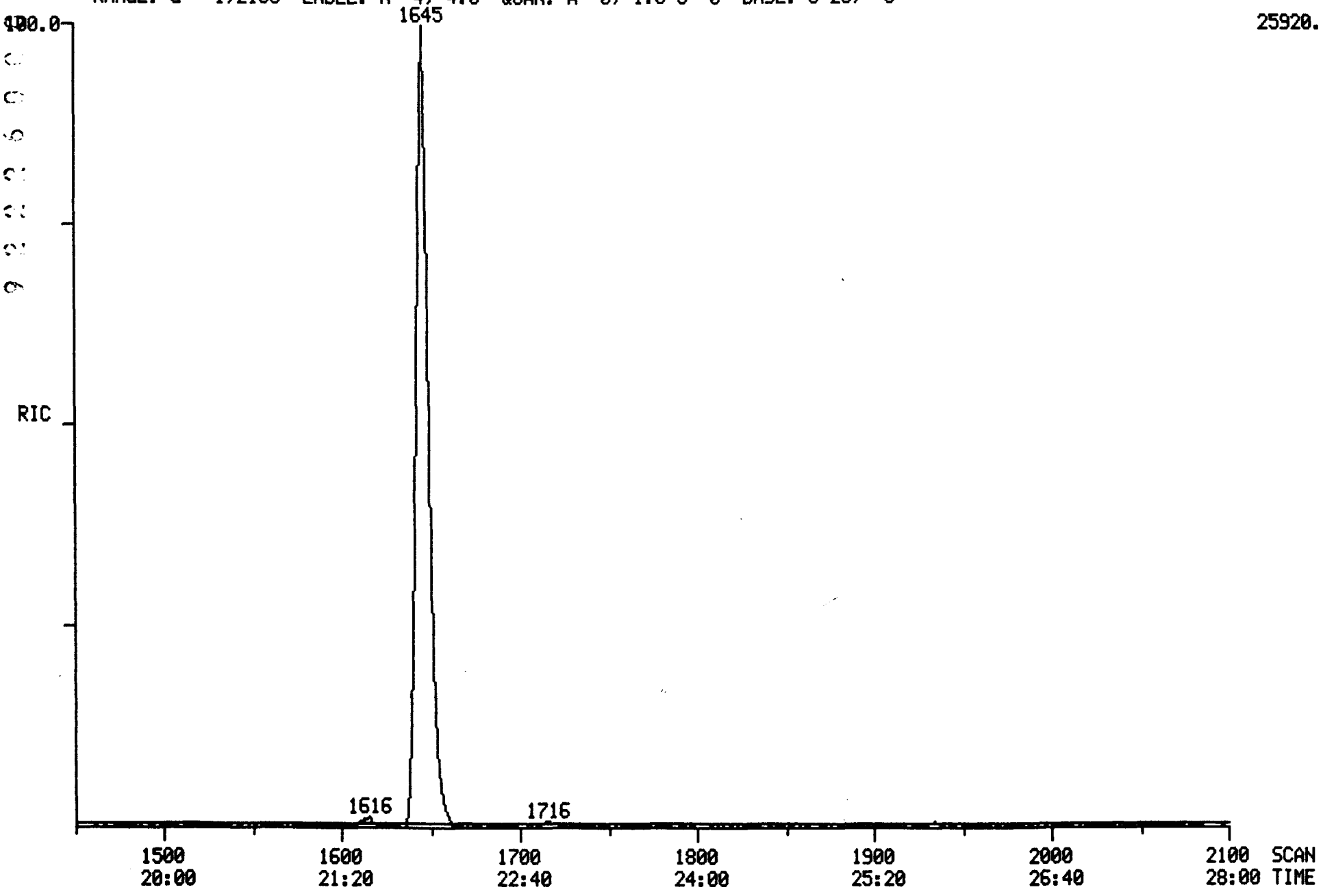


19232.

RIC
04/02/91 15:11:00
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC09 #1
CALI: B0402LC09 #3

SCANS 1450 TO 2100



25920.

000259

4/2/91 15:11:51 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 15:11:00 + 0:02
Sample: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0402LC09
Free sectors: 4803
Instrument: 5100
Analyst: LC

Acquiring
Scan: 2 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 30 DegC
Elapsed time : 0: 7 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10 Samp int (ms): 0.200 Peak width: 1000.
Frag S/P: 10 Actual: 10 Samp int (ms): 0.200 Inten/ion: 2

Min peak width: 3 Min frag width %: 80 Min area: 50
ADC threshold: 2 Baseline: 0

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

000260

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

4/2/91 15:40:13
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	12.8	1680.0	0.8	27941.	13.	17.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 15:42:38
DATA FILE: B0402LC09
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	1	152	CLSRT1/CLSTC1
1	1	1	0	13	3	1	44	CLSRT2/CLSTC2
1	1	1	0	16	7	3	206	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 13 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >						< SAT >	< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	311	312	312	.	1	966	.	128	312	.	1
2	CS	2	-100	100	.	.	.	.	.	50	.	.	.
3	CS	3	-109	109	.	.	.	.	.	94	.	.	.
4	CS	4	-102	102	.	.	.	.	.	62	.	.	.
5	CS	5	-111	111	.	.	.	.	.	64	.	.	.
6	CS	6	177	177	176	-1	1	990	.	84	176	.	1
7	CS	7	153	153	154	1	1	951	.	43	154	.	1
8	CS	8	-156	156	.	.	.	.	.	76	.	.	.
9	CS	9	-145	145	.	.	.	.	.	96	.	.	.
10	CS	10	-227	227	.	.	.	.	.	63	.	.	.
11	CS	12	-326	327	.	.	.	.	.	83	326	.	1
12	CS	13	337	338	.	.	.	.	.	97	336	.	2
13	CS	14	-117	117	.	.	.	.	.	101	119	.	1
14	CS	15	-193	193	.	.	.	.	.	96	.	.	.
15	CS	16	-284	285	.	.	.	.	.	96	.	.	.
16	CS	17	469	470	470	.	1	996	.	114	470	.	1
17	CS	18	-401	403	.	.	.	.	.	62	.	.	.
18	CS	19	294	296	296	.	1	967	.	72	296	.	1
19	CS	20	-357	359	.	.	.	.	.	117	.	.	.
20	CS	21	-236	238	.	.	.	.	.	43	.	.	.
21	CS	22	-627	627	.	.	.	.	.	83	.	.	.
22	CS	23	-553	554	.	.	.	.	.	63	.	.	.
23	CS	24	-741	741	.	.	.	.	.	75	.	.	.
24	CS	25	-505	506	.	.	.	.	.	130	.	.	.
25	CS	27	-388	390	.	.	.	.	.	78	391	.	1
26	CS	28	-728	728	.	.	.	.	.	106	.	.	.
27	CS	29	389	391	391	.	1	970	.	65	390	-1	1
28	CS	43	-1471	1467	.	.	.	.	.	173	.	.	.
29	CS	30	1305	1304	1304	.	1	994	.	117	1304	.	1
30	CS	26	-1128	1126	.	.	.	.	.	129	.	.	.
31	CS	31	-1008	1006	.	.	.	.	.	97	.	.	.
32	CS	32	-955	953	.	.	.	.	.	75	.	.	.
33	CS	33	-1135	1133	.	.	.	.	.	43	1134	.	2
34	CS	34	-844	842	.	.	.	.	.	43	847	.	1
35	CS	35	-1008	1006	.	.	.	.	.	164	.	.	.
36	CS	36	-1722	1721	.	.	.	.	.	83	1726	.	2
37	CS	37	-842	840	837	-3	1	887	.	91	842	5	2
38	CS	38	-1312	1311	.	.	.	.	.	112	1310	.	1
39	CS	39	-1365	1364	1363	-1	1	906	.	106	1362	-1	1
40	CS	40	-1520	1519	.	.	.	.	.	104	.	.	.
41	CS	41	-1402	1401	1401	.	1	990	.	106	1401	.	1
42	CS	42	-1509	1508	1509	1	1	984	.	106	1507	-2	1
43	CS	44	1647	1646	1645	-1	1	990	.	95	1645	.	1
44	CS	45	822	820	823	3	3	992	.	98	823	.	1

Quantitation Report File: B0402LC09

Data: B0402LC09.TI
04/02/91 15:11:00
Sample: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	312	4:10	1	1.000	A BB	10533.	50.000 UG/G	4.86
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	176	2:21	1	0.564	A BB	365.	~~1.136~~ UG/G	0.11
7	43	154	2:03	1	0.494	A BB	64568.	535.979 UG/G	52.14
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	83	326	4:21	1	1.045	A BB	394.	~~0.615~~ UG/G	0.06
12	97	336	4:29	1	1.077	A*BB	61.	~~0.143~~ UG/G	0.01
13	101	119	1:35	1	0.381	A BB	31.	~~0.242~~ UG/G	0.02
14	NOT FOUND								
15	NOT FOUND								
16	114	470	6:16	16	1.000	A BB	50242.	50.000 UG/G	4.86
17	NOT FOUND								
18	72	296	3:57	16	0.630	A BB	2803.	58.788 UG/G	5.72
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	78	391	5:13	16	0.832	A BB	1002.	~~0.923~~ UG/G	0.09
26	NOT FOUND								
27	65	390	5:12	16	0.830	A BB	14663.	94.037 %	9.15
28	NOT FOUND								
29	117	1304	17:23	29	1.000	A BB	56019.	50.000 UG/G	4.86
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	1134	15:07	29	0.870	A*VV	314.	~~0.695~~ UG/G	0.07
34	43	847	11:18	29	0.650	A BB	16.	~~0.033~~ UG/G	0.00
35	NOT FOUND								
36	83	1726	23:01	29	1.324	A*BB	111.	~~0.151~~ UG/G	0.01
37	91	842	11:14	29	0.646	A*BB	299.	~~0.207~~ UG/G	0.02
38	112	1310	17:28	29	1.005	A BB	33.	~~0.031~~ UG/G	0.00
39	106	1362	18:10	29	1.044	A BB	44.	~~0.080~~ UG/G	0.01
40	NOT FOUND								
41	106	1401	18:41	29	1.074	A BB	712.	~~1.060~~ UG/G	0.10
42	106	1507	20:06	29	1.156	A BB	253.	~~0.366~~ UG/G	0.04
43	95	1645	21:56	29	1.262	A BB	56948.	102.793 %	10.00
44	98	823	10:58	29	0.631	A BB	51821.	80.807 %	7.86

Quantitation Report File: B0402LC09

Data: B0402LC09.TI
04/02/91 15:11:00
Sample: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 5.000
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

MG/KG

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	312	4:10	1	1.000	A BB	10533.	250.000 UG/G	5.40
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	176	2:21	1	0.564	A BB	365.	5.678 UG/G	0.12
7	43	154	2:03	1	0.494	A BB	64568.	2679.890 UG/G	57.90
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	83	326	4:21	1	1.045	A BB	394.	3.077 UG/G	0.07
12	97	336	4:29	1	1.077	A*BB	61.	0.713 UG/G	0.02
13	101	119	1:35	1	0.381	A BB	31.	1.211 UG/G	0.03
14	NOT FOUND								
15	NOT FOUND								
16	114	470	6:16	16	1.000	A BB	50242.	250.000 UG/G	5.40
17	NOT FOUND								
18	72	296	3:57	16	0.630	A BB	2803.	293.940 UG/G	6.35
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	78	391	5:13	16	0.832	A BB	1002.	4.614 UG/G	0.10
26	NOT FOUND								
27	65	390	5:12	16	0.830	A BB	14663.	470.182 %	10.16
28	NOT FOUND								
29	117	1304	17:23	29	1.000	A BB	56019.	250.000 UG/G	5.40
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	1142	15:14	29	0.876	A VB	42.	0.465 UG/G	0.01
34	43	847	11:18	29	0.650	A BB	16.	0.166 UG/G	0.00
35	NOT FOUND								
36	83	1743	23:14	29	1.337	A BB	26.	0.176 UG/G	0.00
37	91	842	11:14	29	0.646	A*BB	299.	1.034 UG/G	0.02
38	NOT FOUND								
39	106	1401	18:41	29	1.074	A BB	712.	6.504 UG/G	0.14
40	NOT FOUND								
41	106	1401	18:41	29	1.074	A BB	712.	5.302 UG/G	0.11
42	106	1507	20:06	29	1.156	A BB	253.	1.830 UG/G	0.04
43	95	1645	21:56	29	1.262	A BB	56948.	513.965 %	10.00
44	98	823	10:58	29	0.631	A BB	51821.	404.033 %	8.73

Quantitation Report File: B0402LC09A

Data: B0402LC09.TI
04/02/91 15:11:00
Sample: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 3.310
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-
2	2-OCTENAL, (E)-

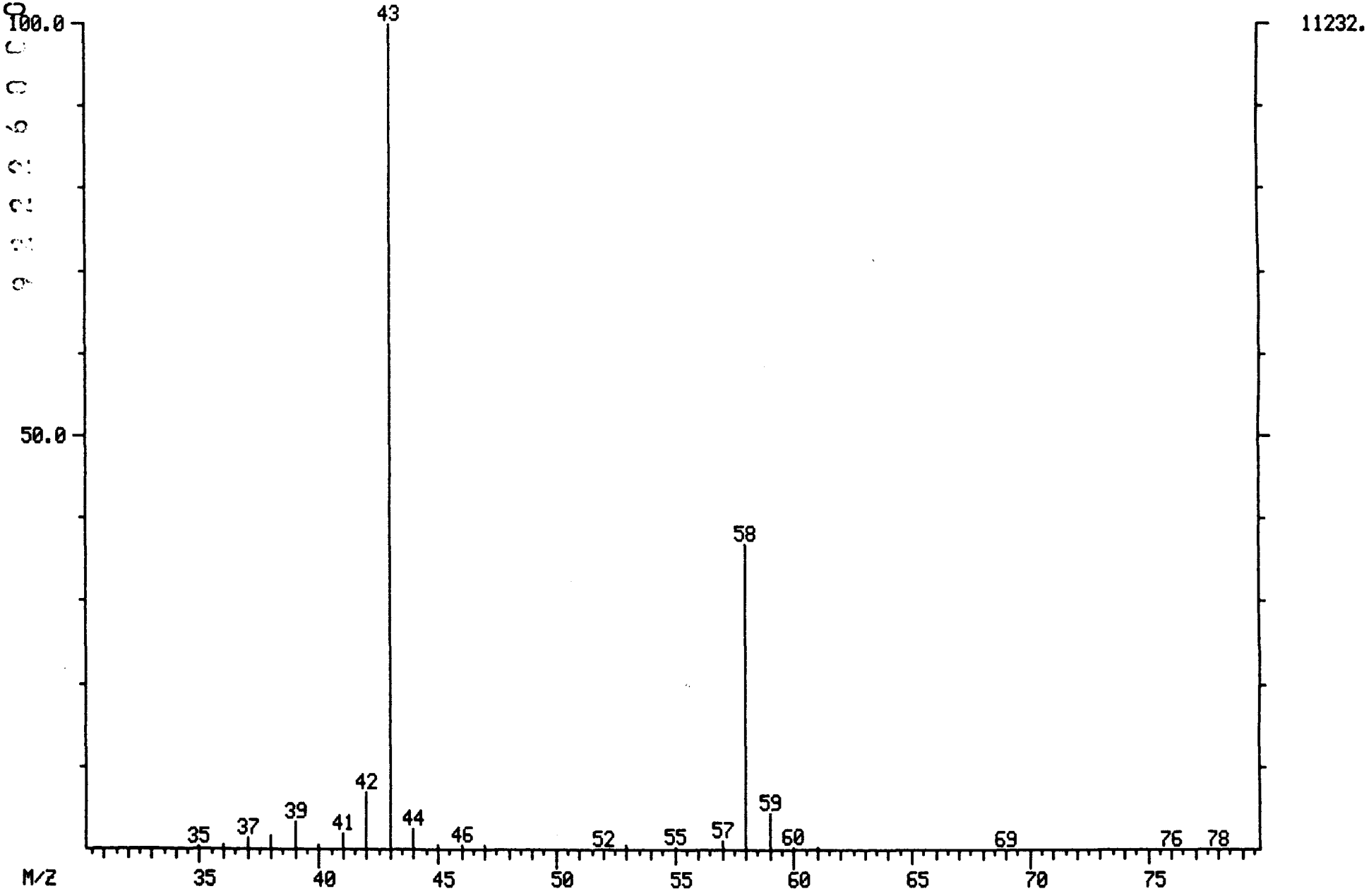
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	443	5:54	1	1.000	A BB	167331.	331.000	95.94
2	RIC	537	7:10	1	1.212	A BB	7082. misc	14.010	4.06

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/02/91 15:11:00 + 2:03
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 #154
CALI: B0402LC09 #3

BASE M/Z: 43
RIC: 18560.

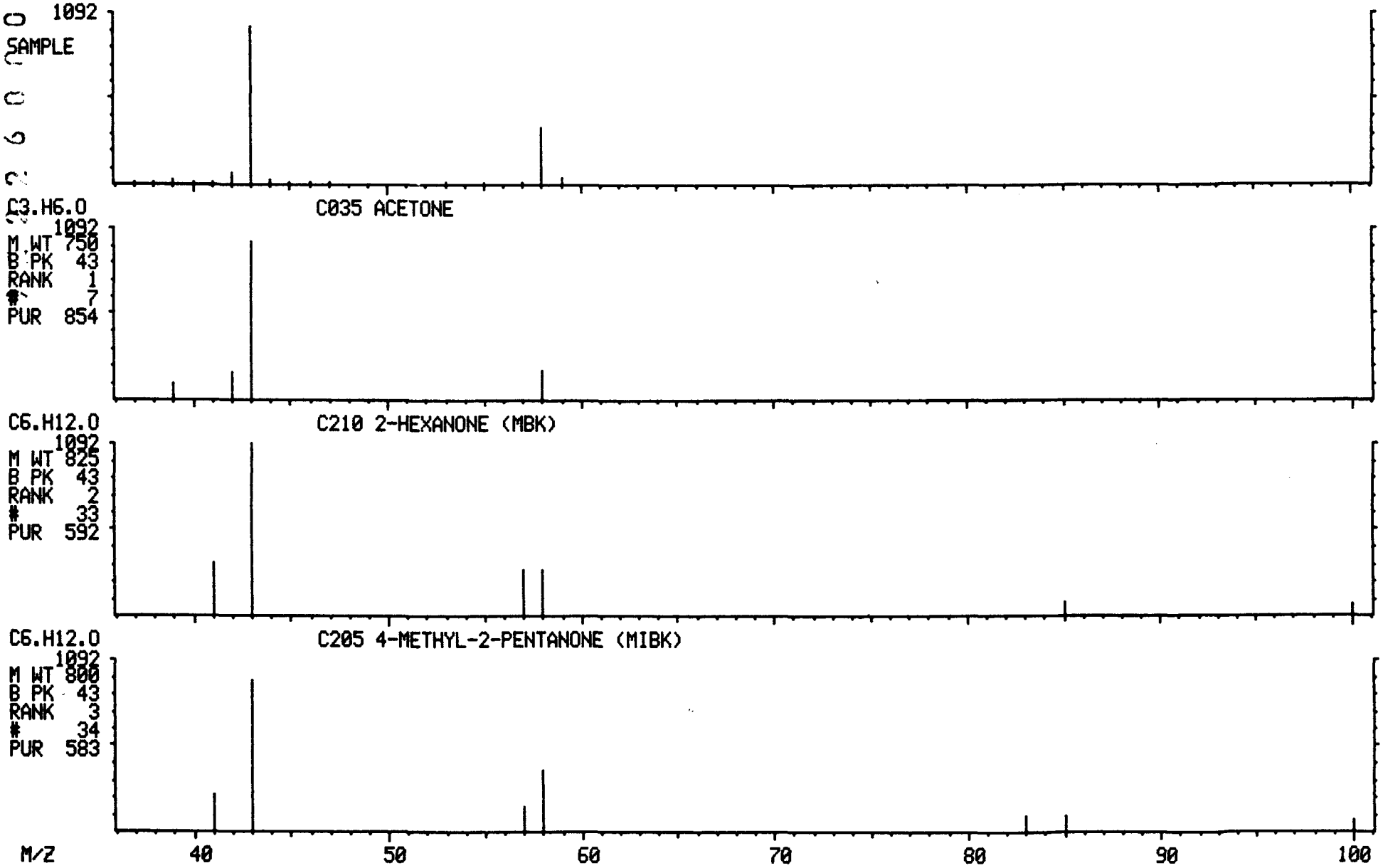


000279

LIBRARY SEARCH
04/02/91 15:11:00 + 2:03
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 # 154
CALI: B0402LC09 # 3

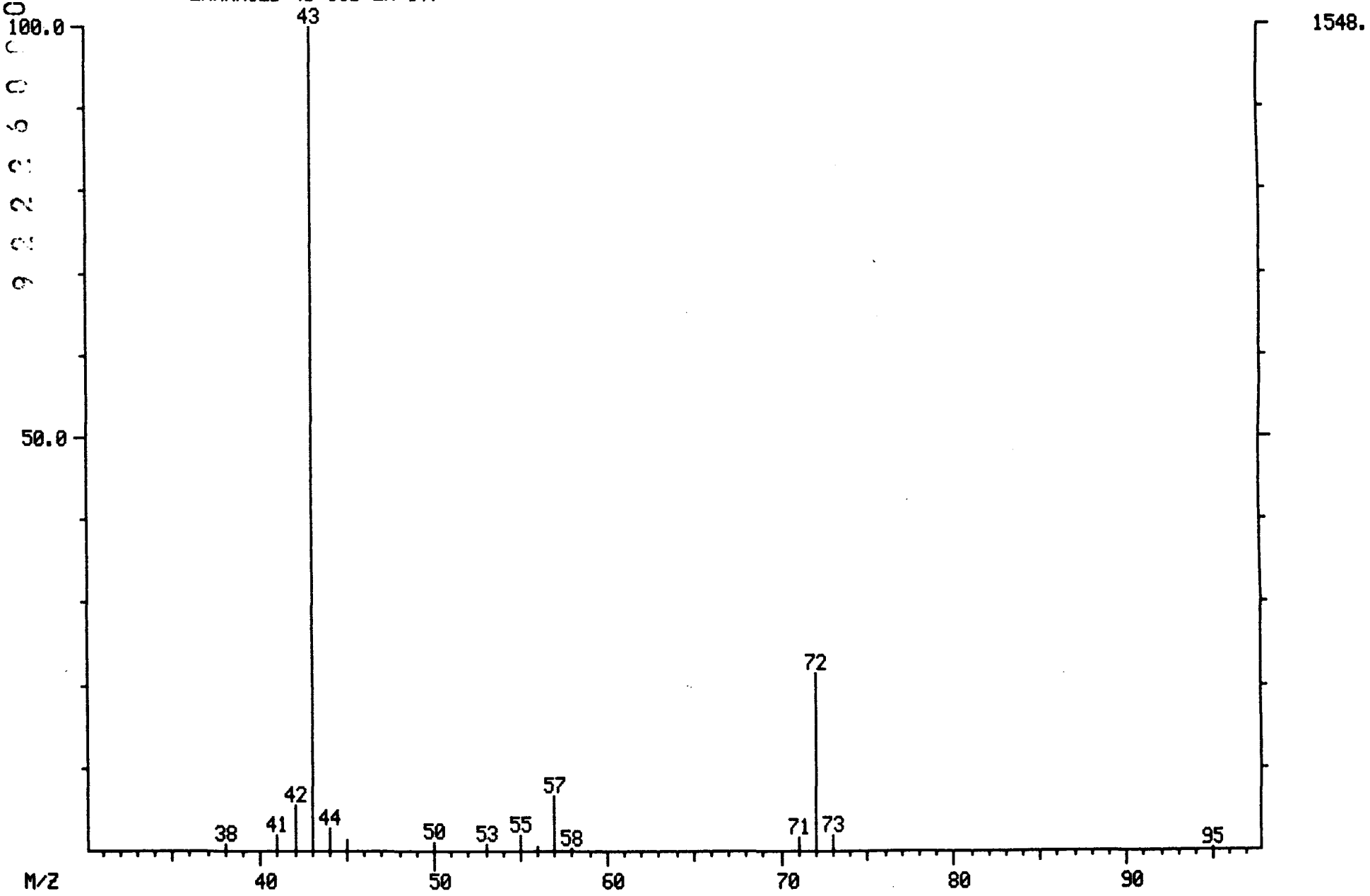
BASE M/Z: 43
RIC: 18399.



MASS SPECTRUM
04/02/91 15:11:00 + 3:57
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 #296
CALI: B0402LC09 #3

BASE M/Z: 43
RIC: 2312.

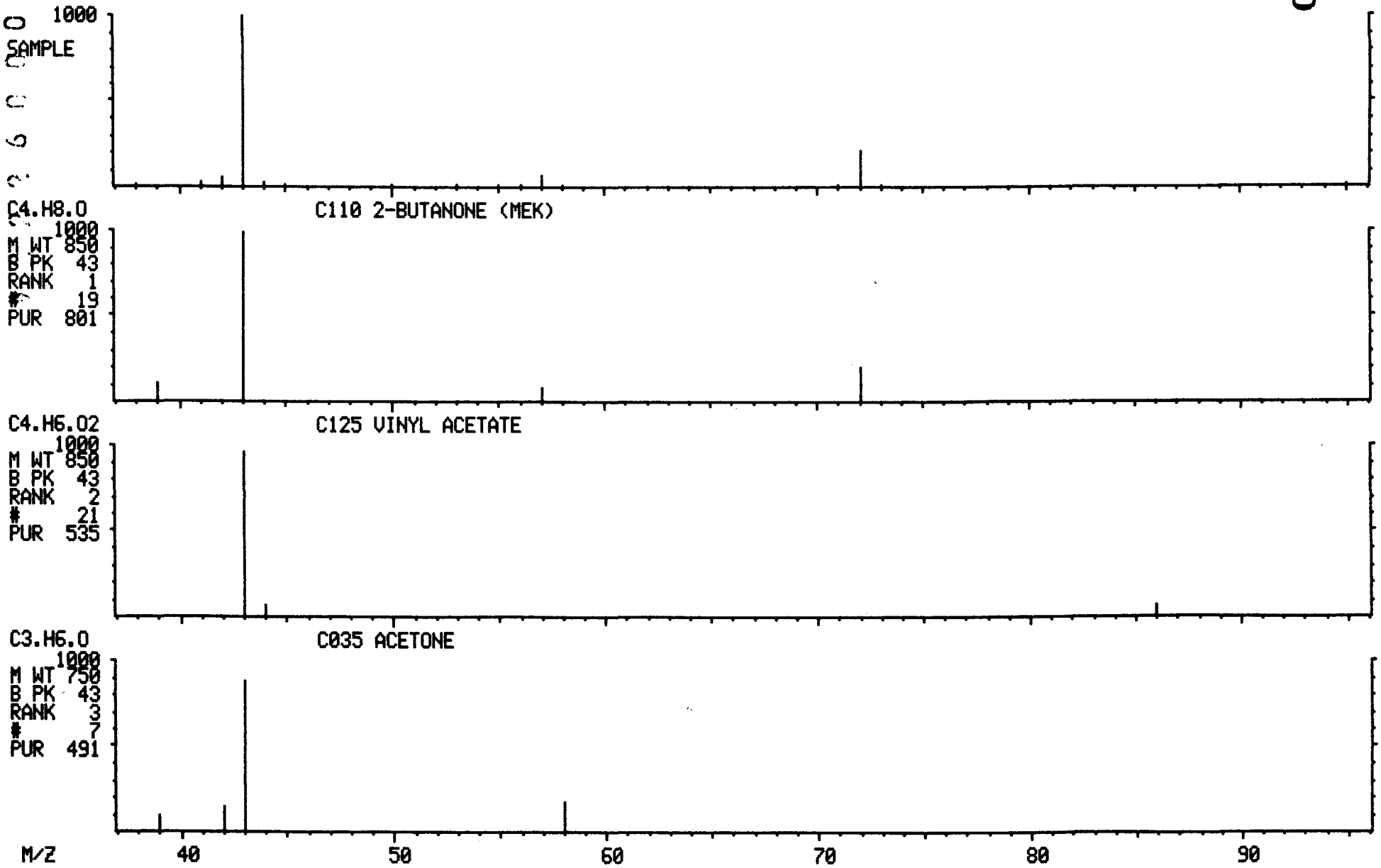


LIBRARY SEARCH
04/02/91 15:11:00 + 3:57
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 # 296
CALI: B0402LC09 # 3

BASE M/Z: 43
RIC: 2311.

000272

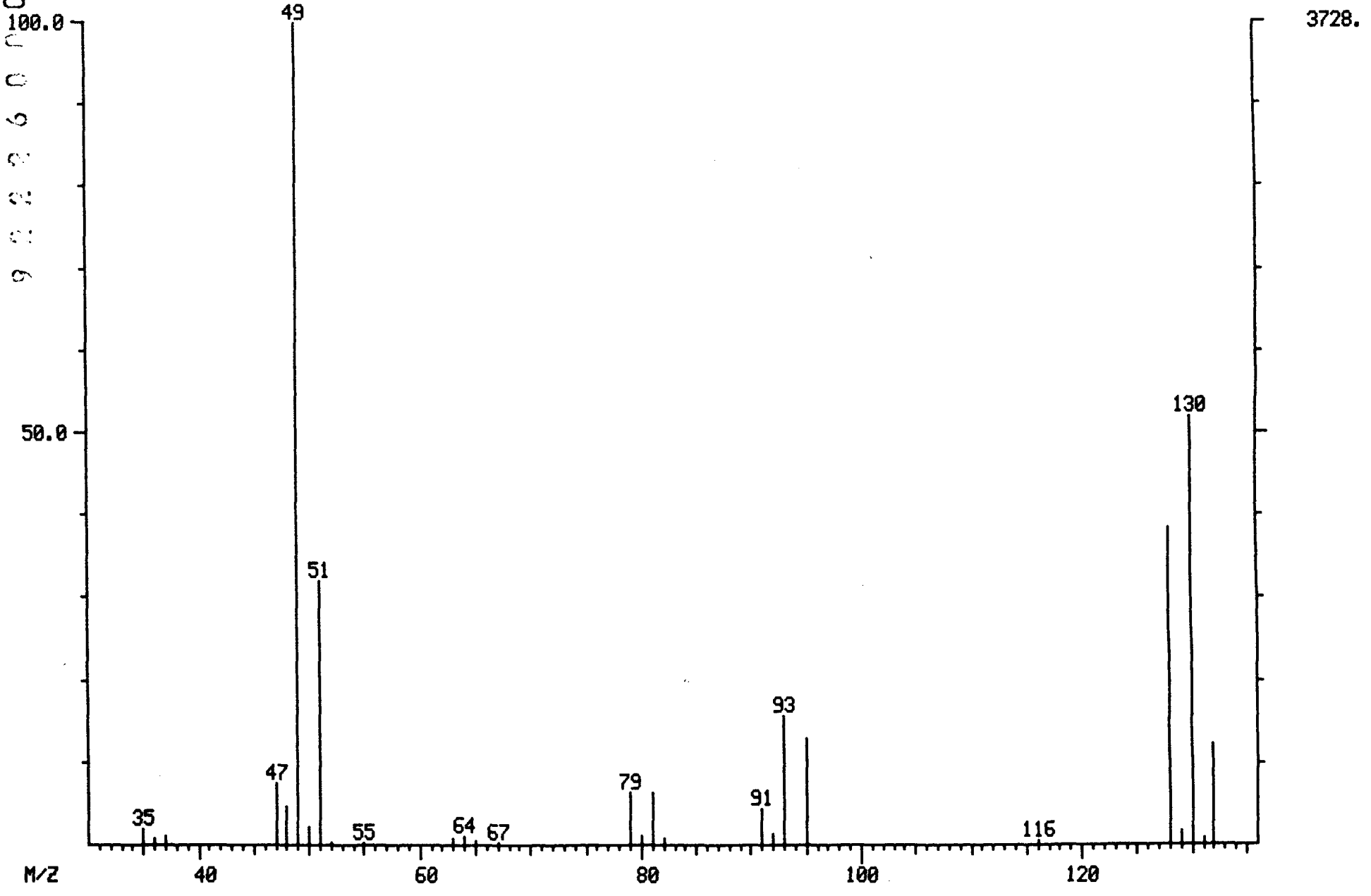


MASS SPECTRUM
04/02/91 15:11:00 + 4:10
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 #312
CALI: B0402LC09 #3

BASE M/Z: 49
RIC: 11504.

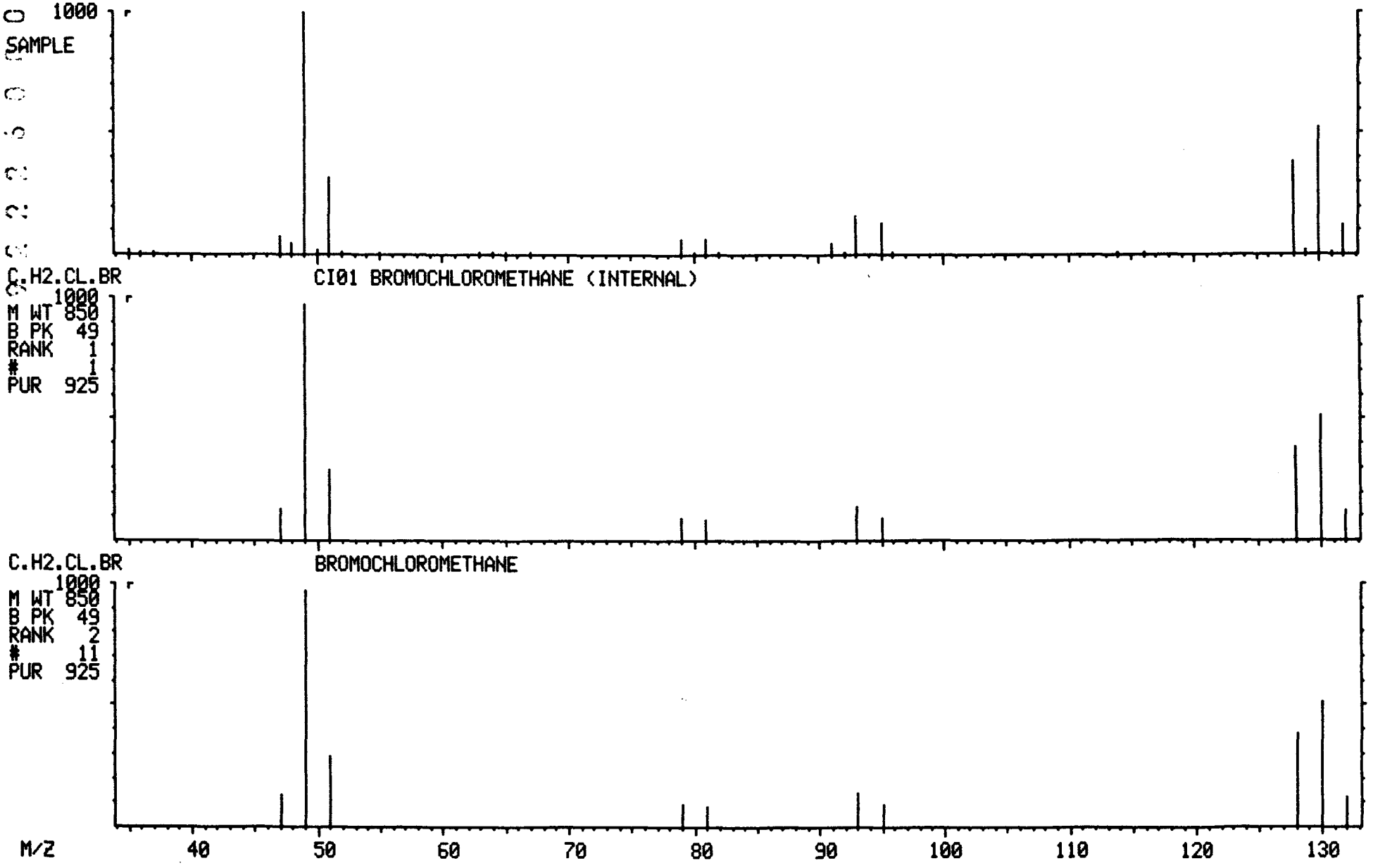
000273



LIBRARY SEARCH
04/02/91 15:11:00 + 4:10
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 # 312
CALI: B0402LC09 # 3

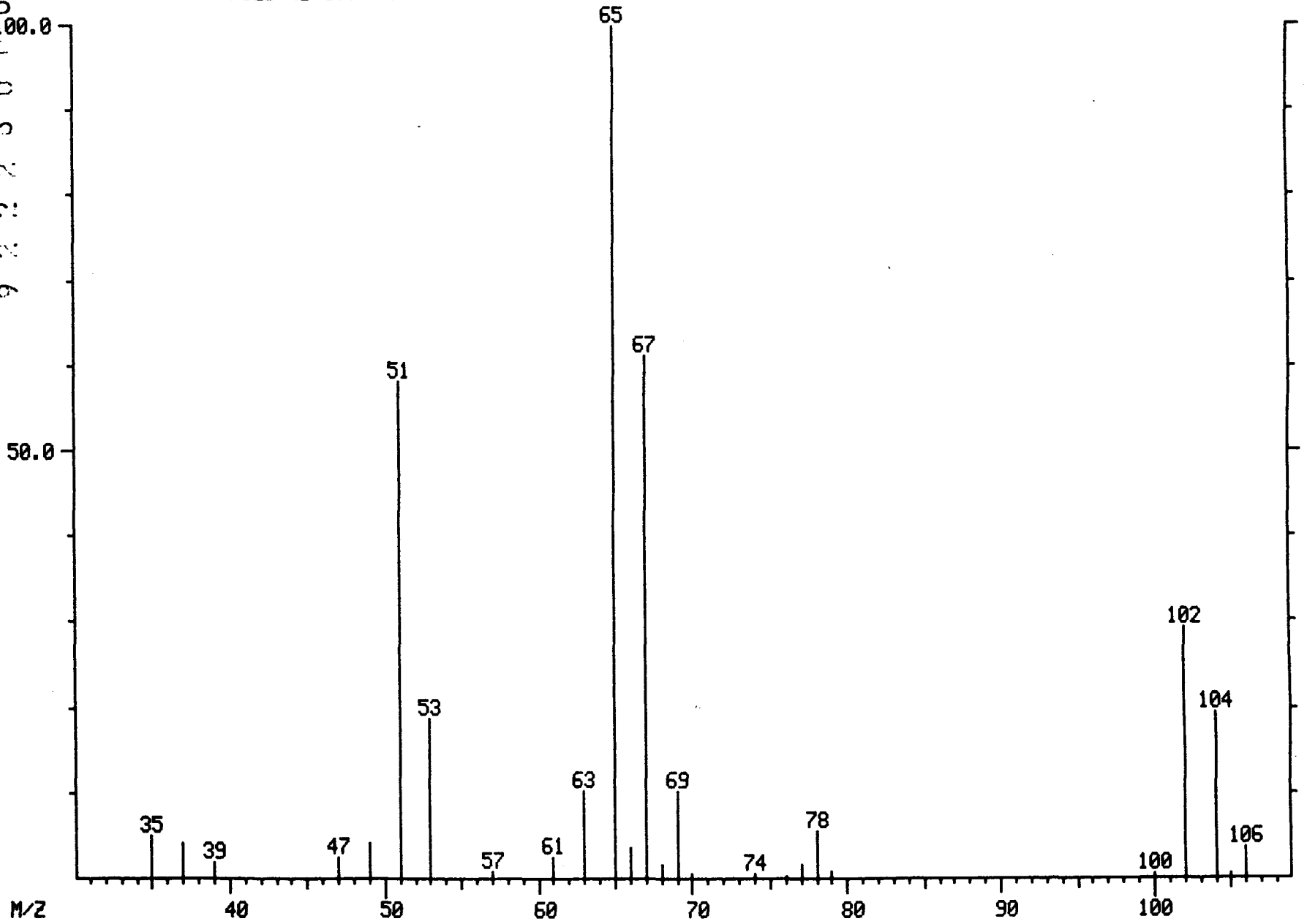
BASE M/Z: 49
RIC: 11503.



MASS SPECTRUM
04/02/91 15:11:00 + 5:12
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 #390
CALI: B0402LC09 #3

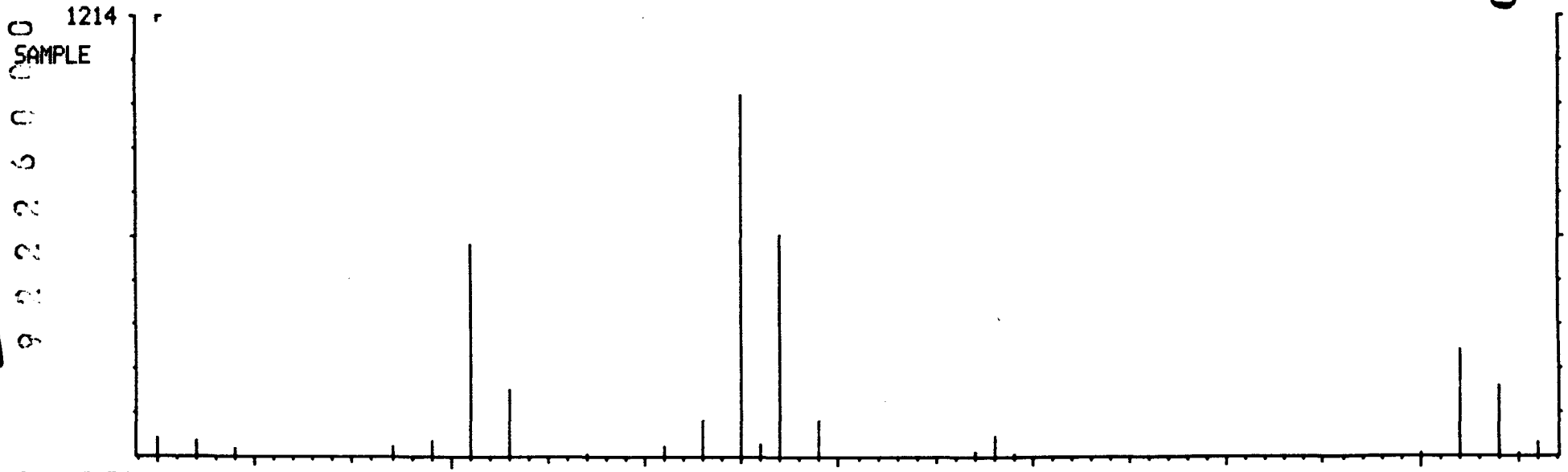
BASE M/Z: 65
RIC: 5176.



LIBRARY SEARCH
04/02/91 15:11:00 + 5:12
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

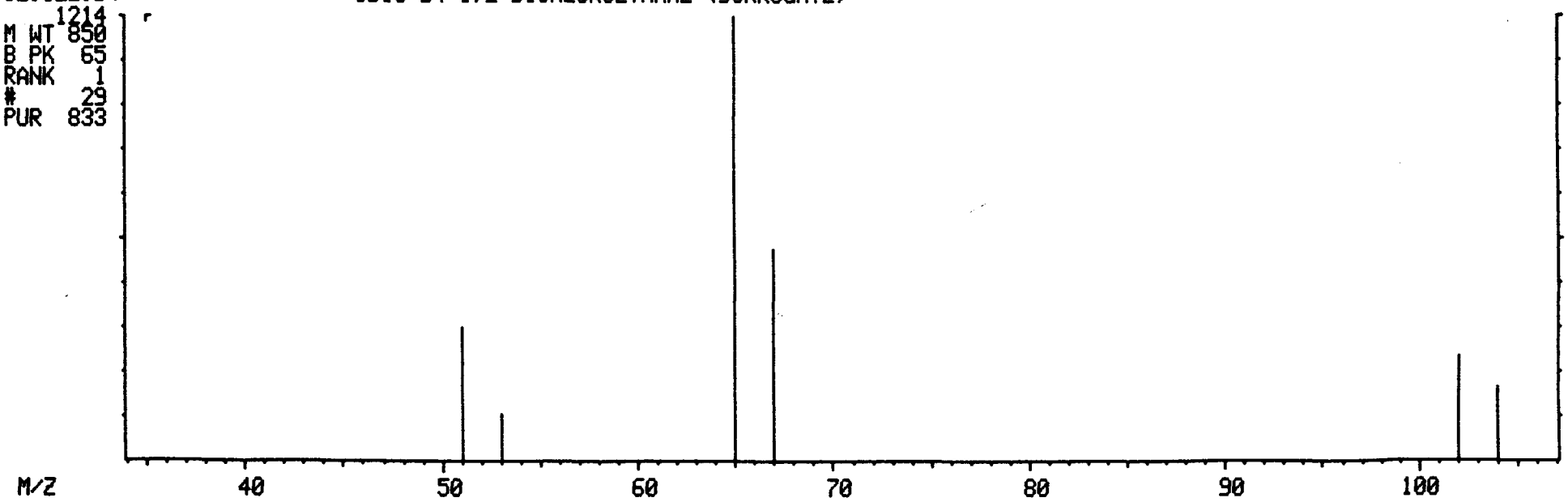
DATA: B0402LC09 # 390
CALI: B0402LC09 # 3

BASE M/Z: 65
RIC: 5135.



C2.CL2.D4 CS15 D4-1,2-DICHLOROETHANE (SURROGATE)

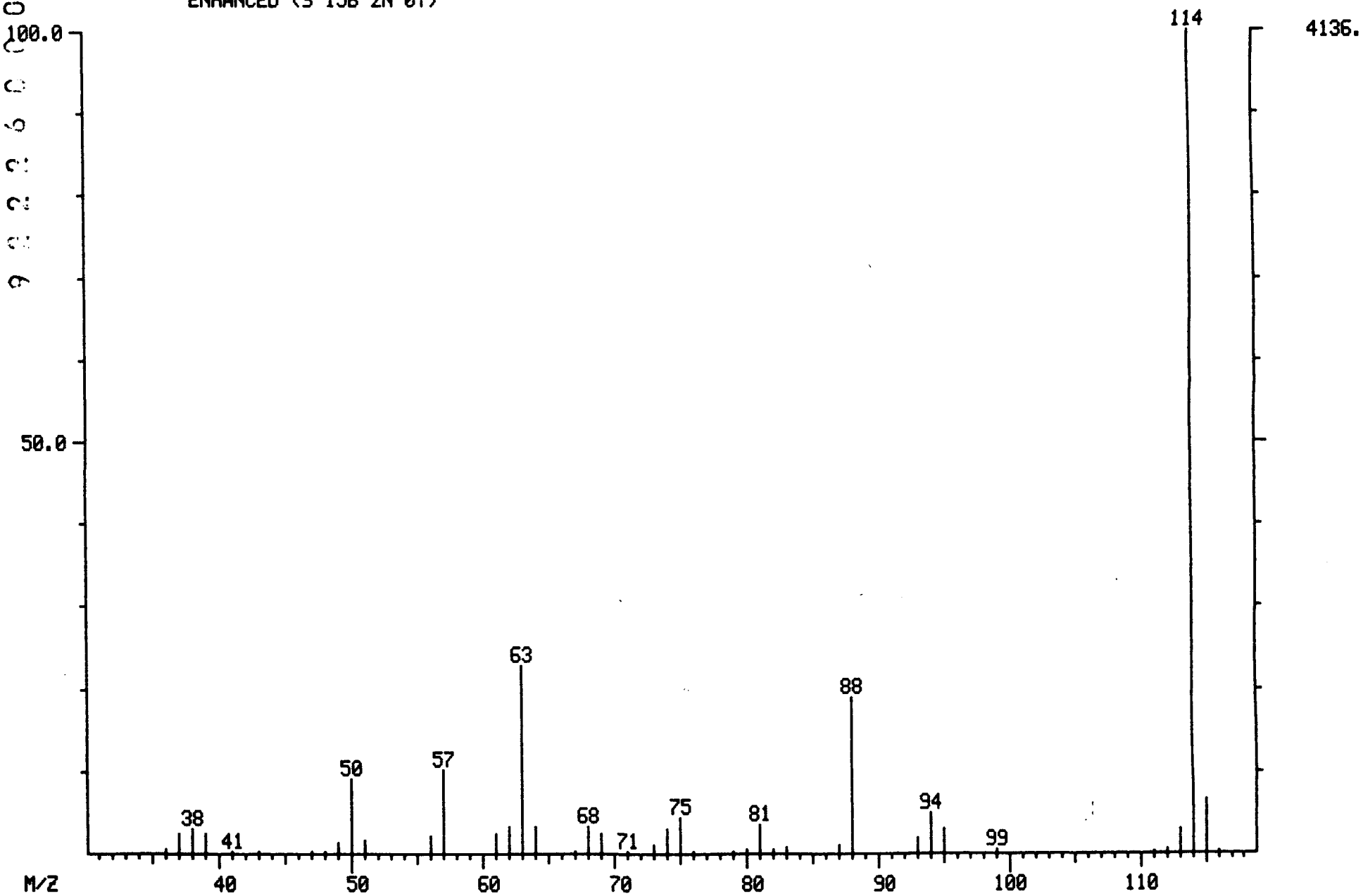
1214
M WT 850
B PK 65
RANK 1
29
PUR 833



MASS SPECTRUM
04/02/91 15:11:00 + 6:16
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 #470
CALI: B0402LC09 #3

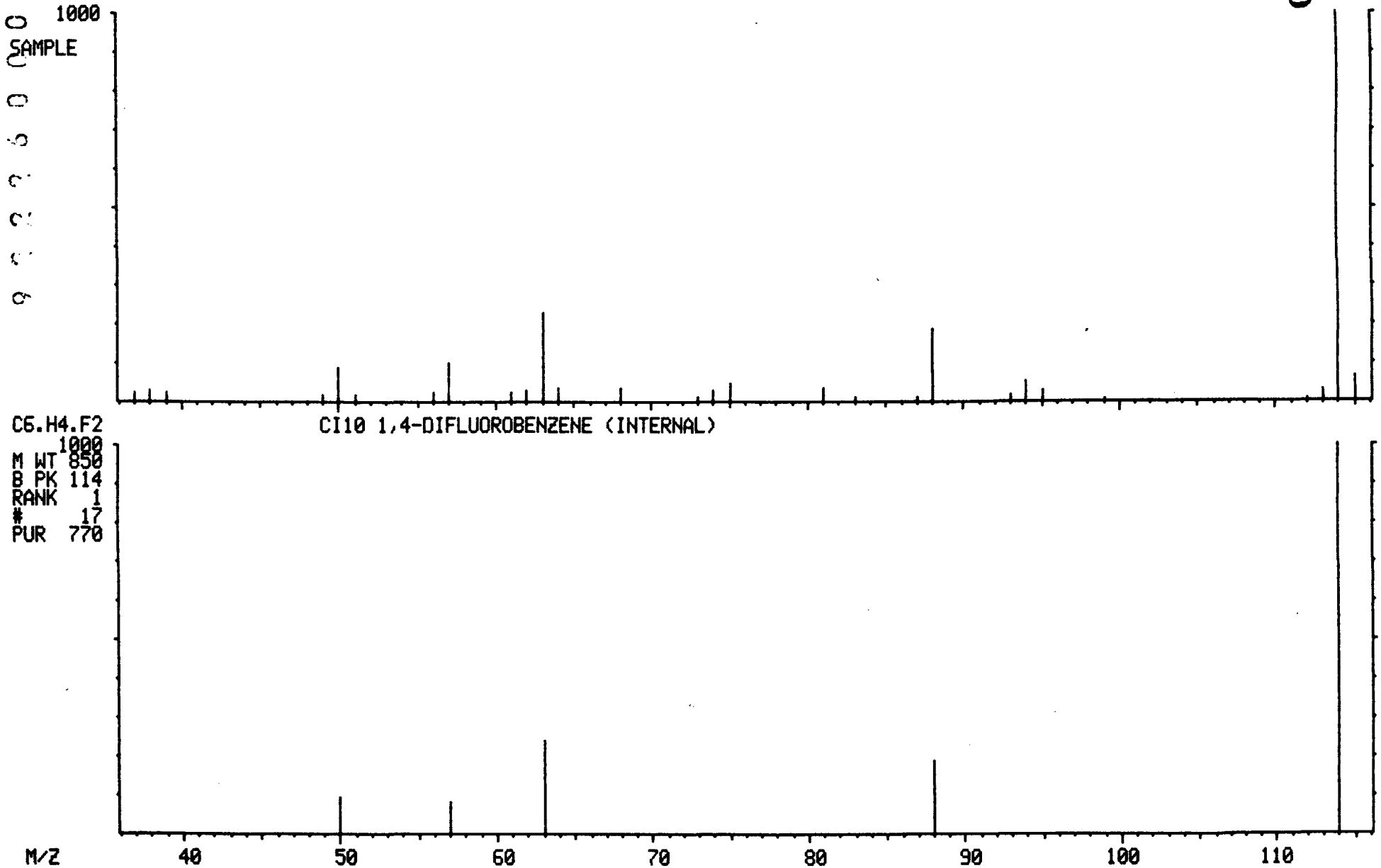
BASE M/Z: 114
RIC: 9488.



LIBRARY SEARCH
04/02/91 15:11:00 + 6:16
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 # 470
CALI: B0402LC09 # 3

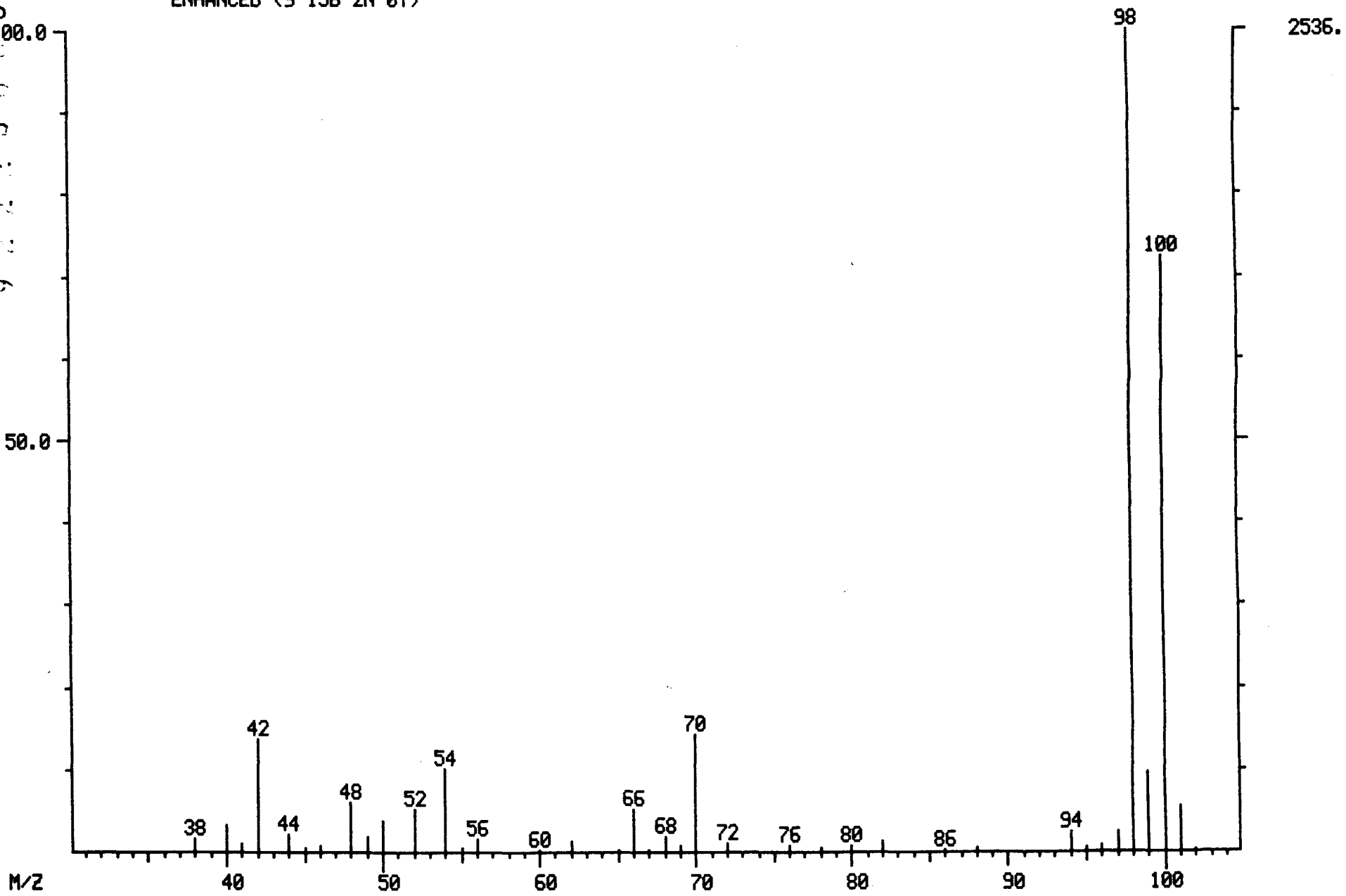
BASE M/Z: 114
RIC: 9199.



MASS SPECTRUM
04/02/91 15:11:00 + 10:58
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 #823
CALI: B0402LC09 #3

BASE M/Z: 98
RIC: 7024.

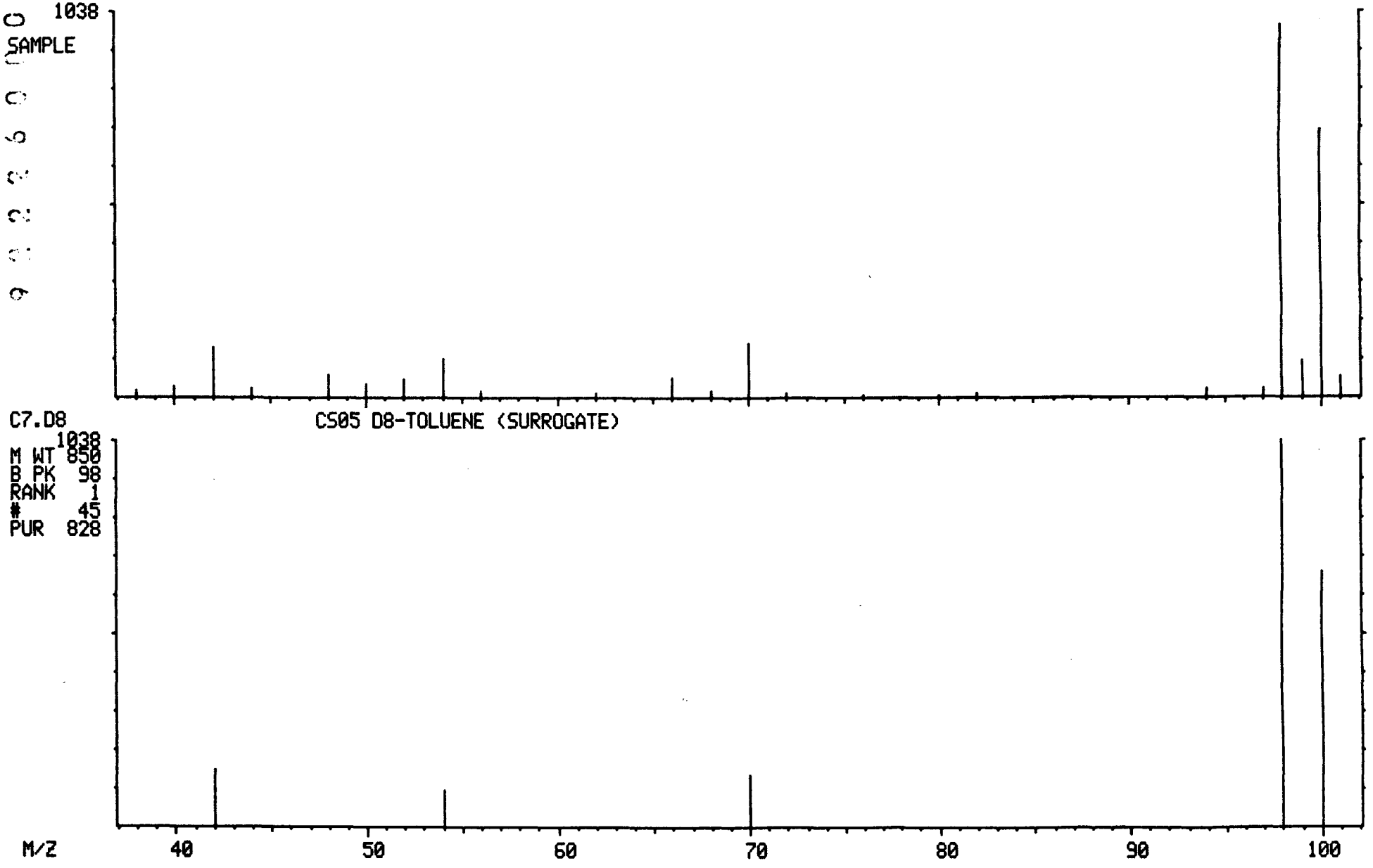


002209

LIBRARY SEARCH
04/02/91 15:11:00 + 10:58
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 # 823
CALI: B0402LC09 # 3

BASE M/Z: 98
RIC: 6767.

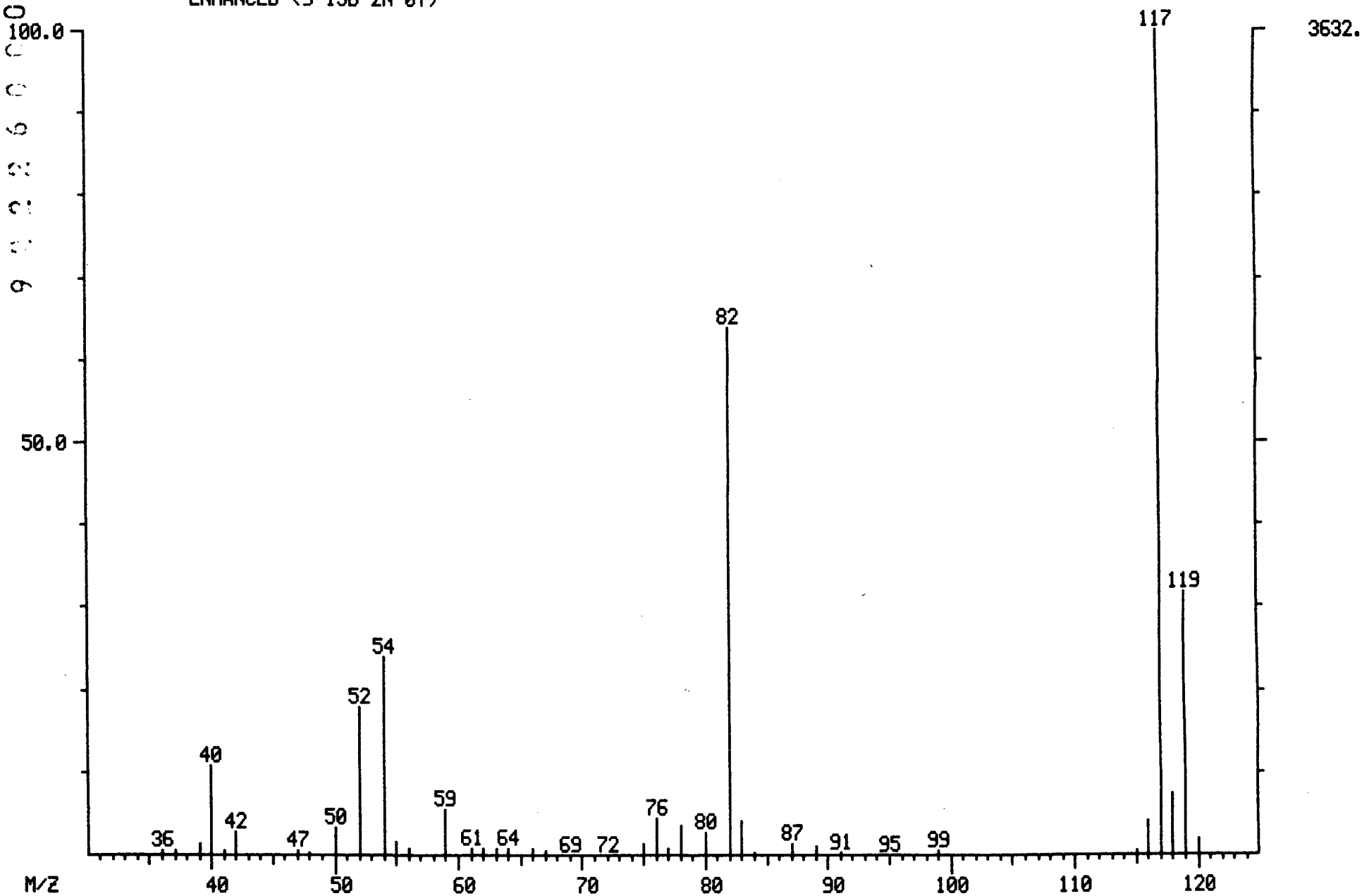


MASS SPECTRUM
04/02/91 15:11:00 + 17:23
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 #1304
CALI: B0402LC09 #3

BASE M/Z: 117
RIC: 11104.

000281

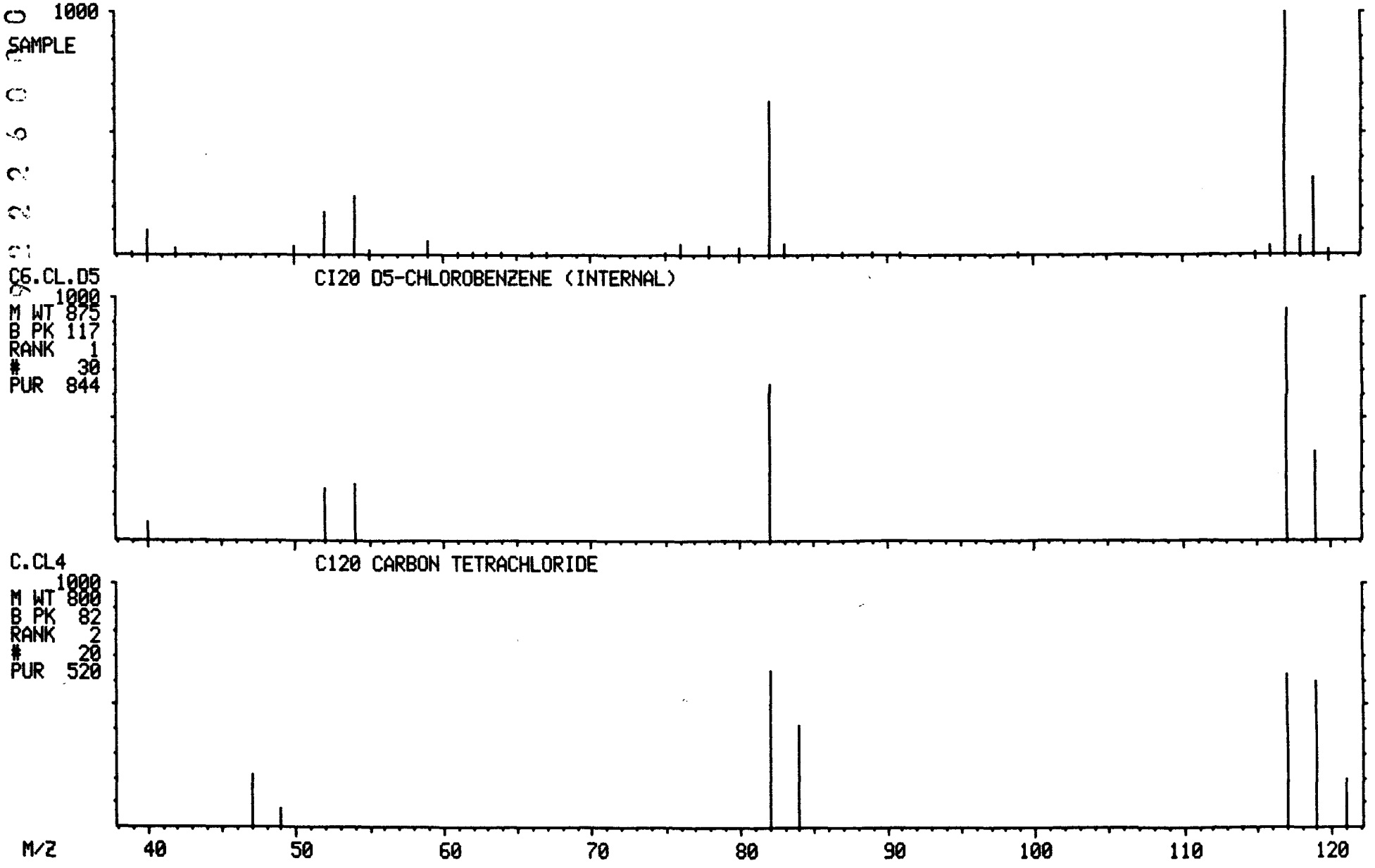


LIBRARY SEARCH
04/02/91 15:11:00 + 17:23
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 #1304
CALI: B0402LC09 # 3

BASE M/Z: 117
RIC: 10927.

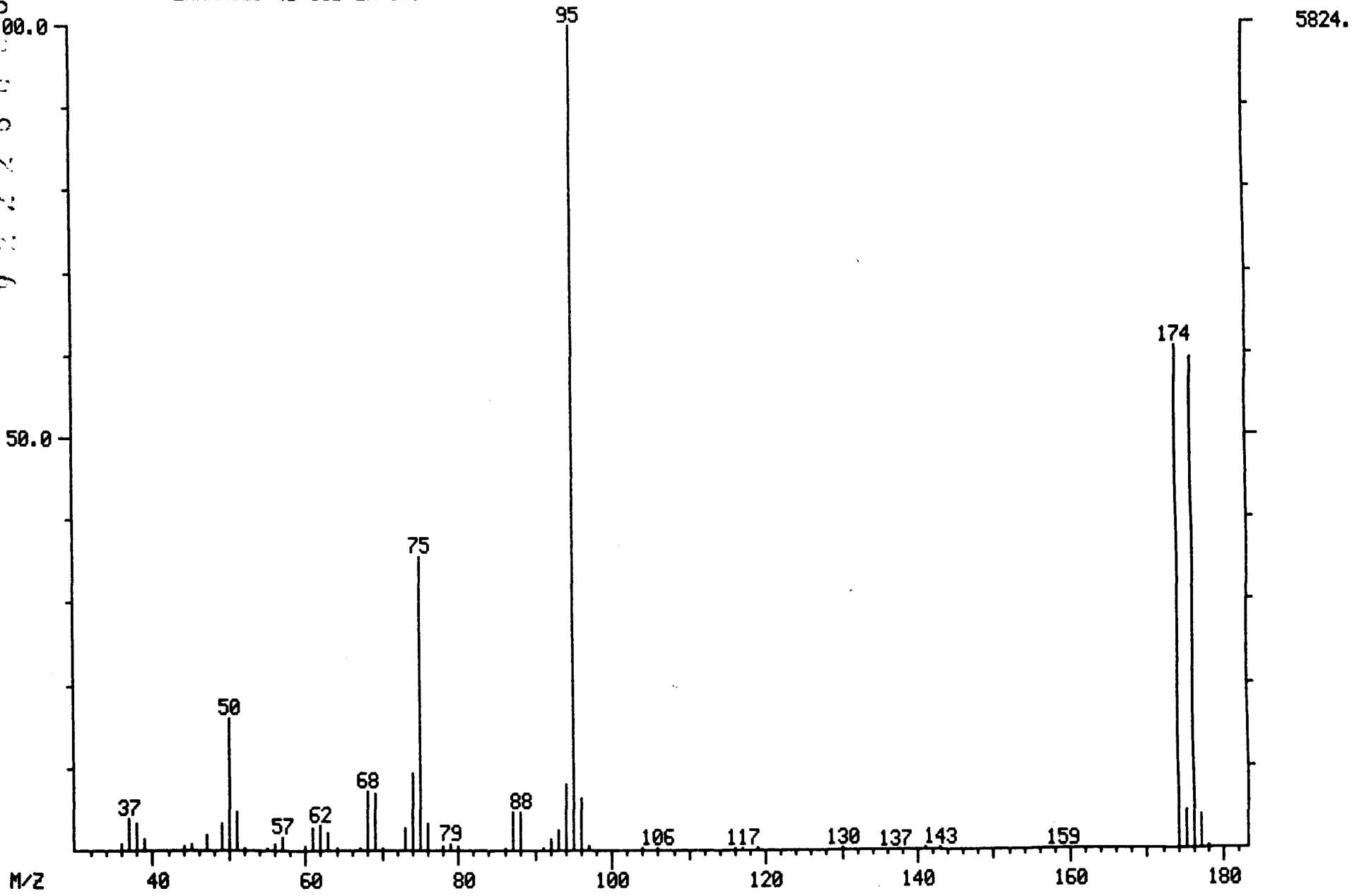
000282



MASS SPECTRUM
04/02/91 15:11:00 + 21:56
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 #1645
CALI: B0402LC09 #3

BASE M/Z: 95
RIC: 21920.

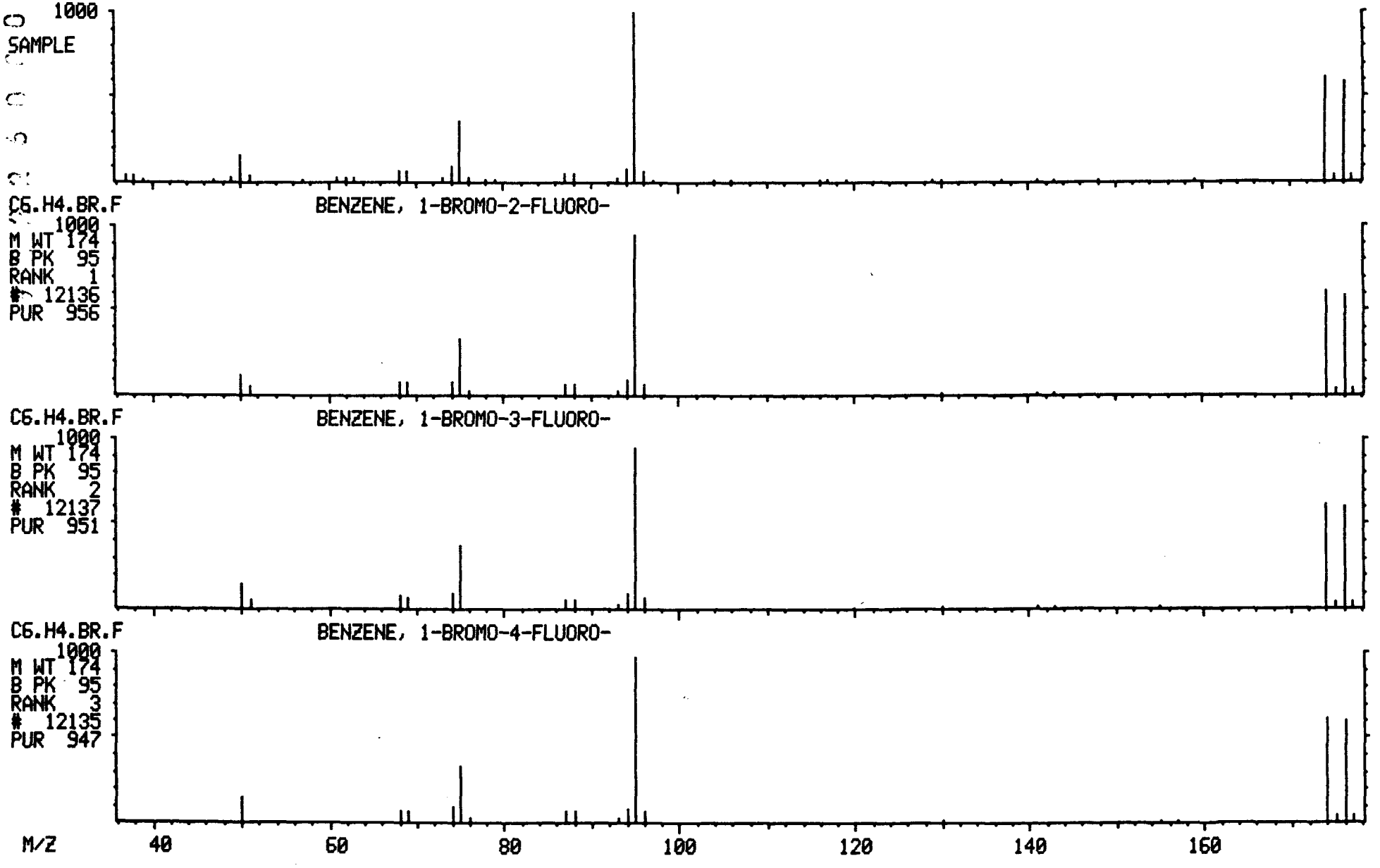


000283

LIBRARY SEARCH
04/02/91 15:11:00 + 21:56
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 #1645
CALI: B0402LC09 # 3

BASE M/Z: 95
RIC: 21503.

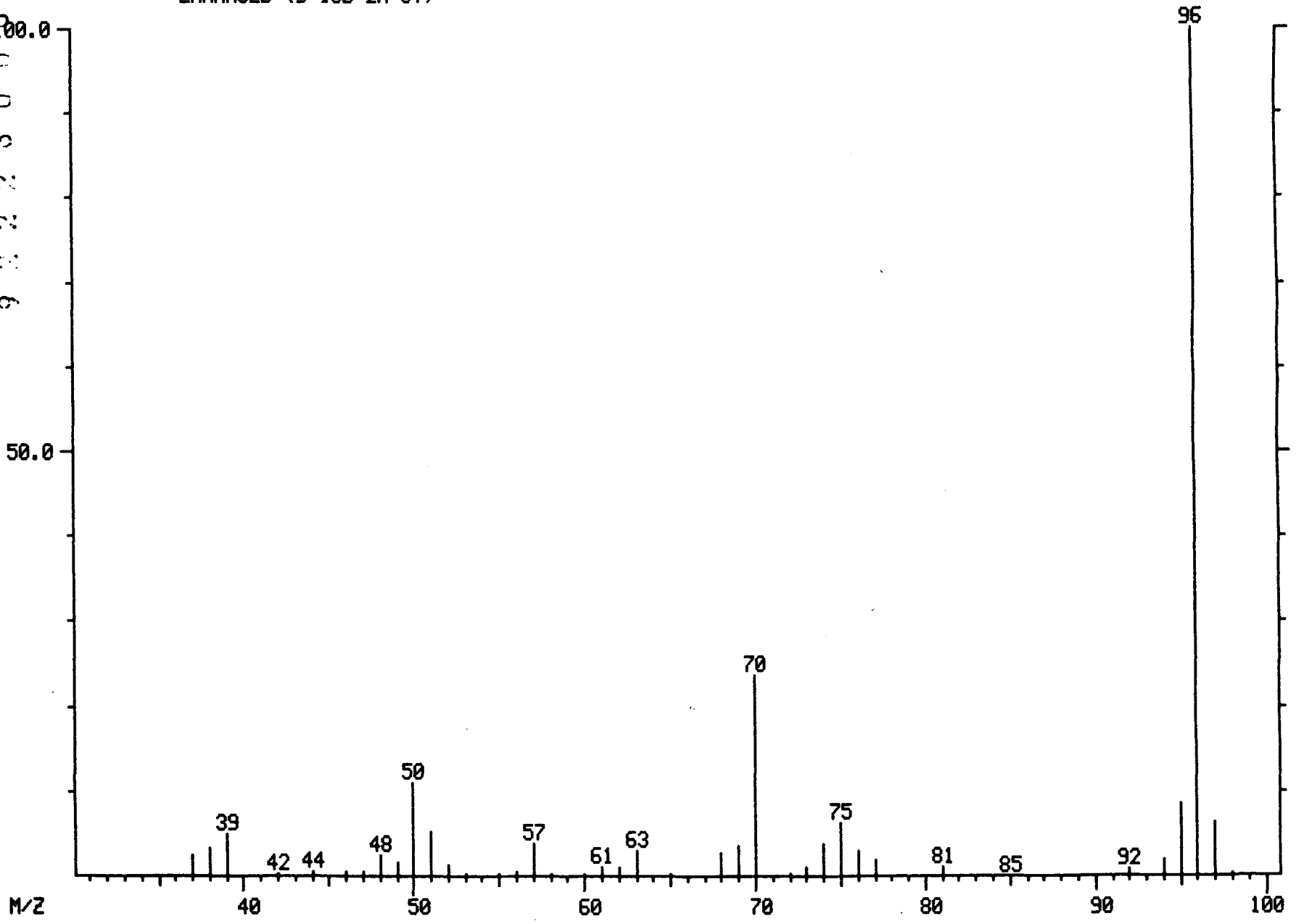


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/02/91 15:11:00 + 5:54
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 #443
CALI: B0402LC09 #3

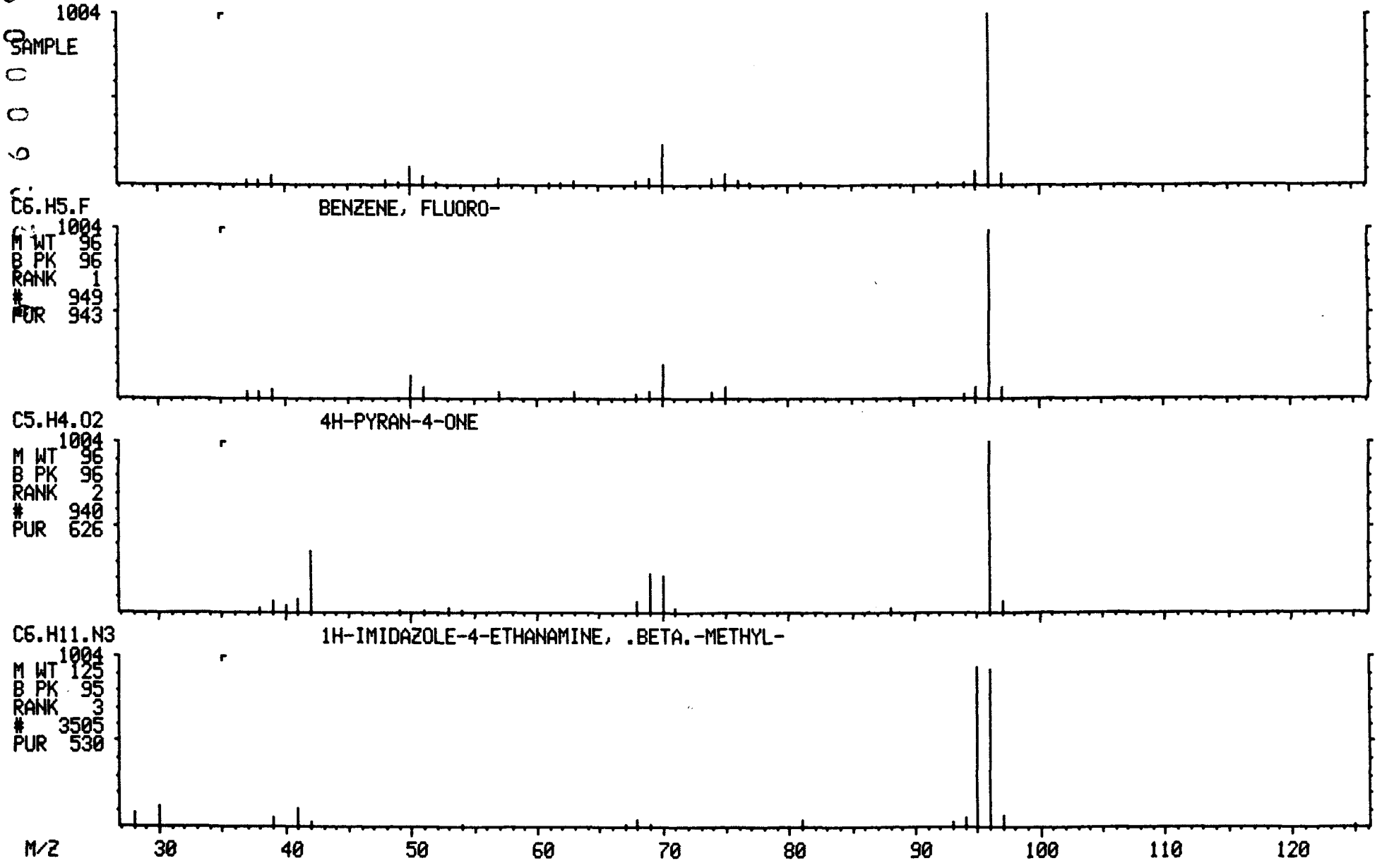
BASE M/Z: 96
RIC: 12896.



LIBRARY SEARCH
04/02/91 15:11:00 + 5:54
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 # 443
CALI: B0402LC09 # 3

BASE M/Z: 96
RIC: 12591.

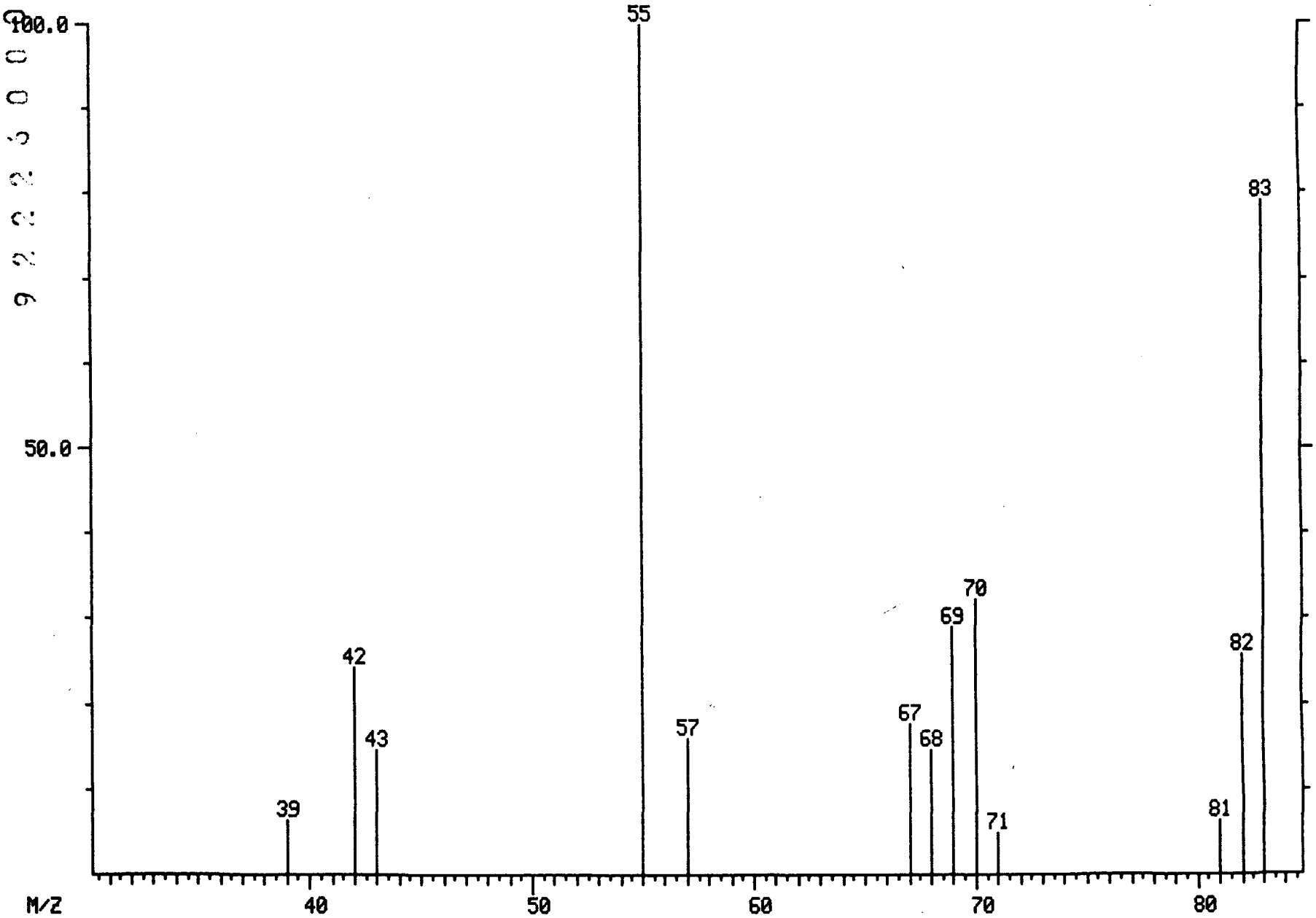


000287

MASS SPECTRUM
04/02/91 15:11:00 + 7:10
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 #537
CALI: B0402LC09 #3

BASE M/Z: 55
RIC: 230.



62.

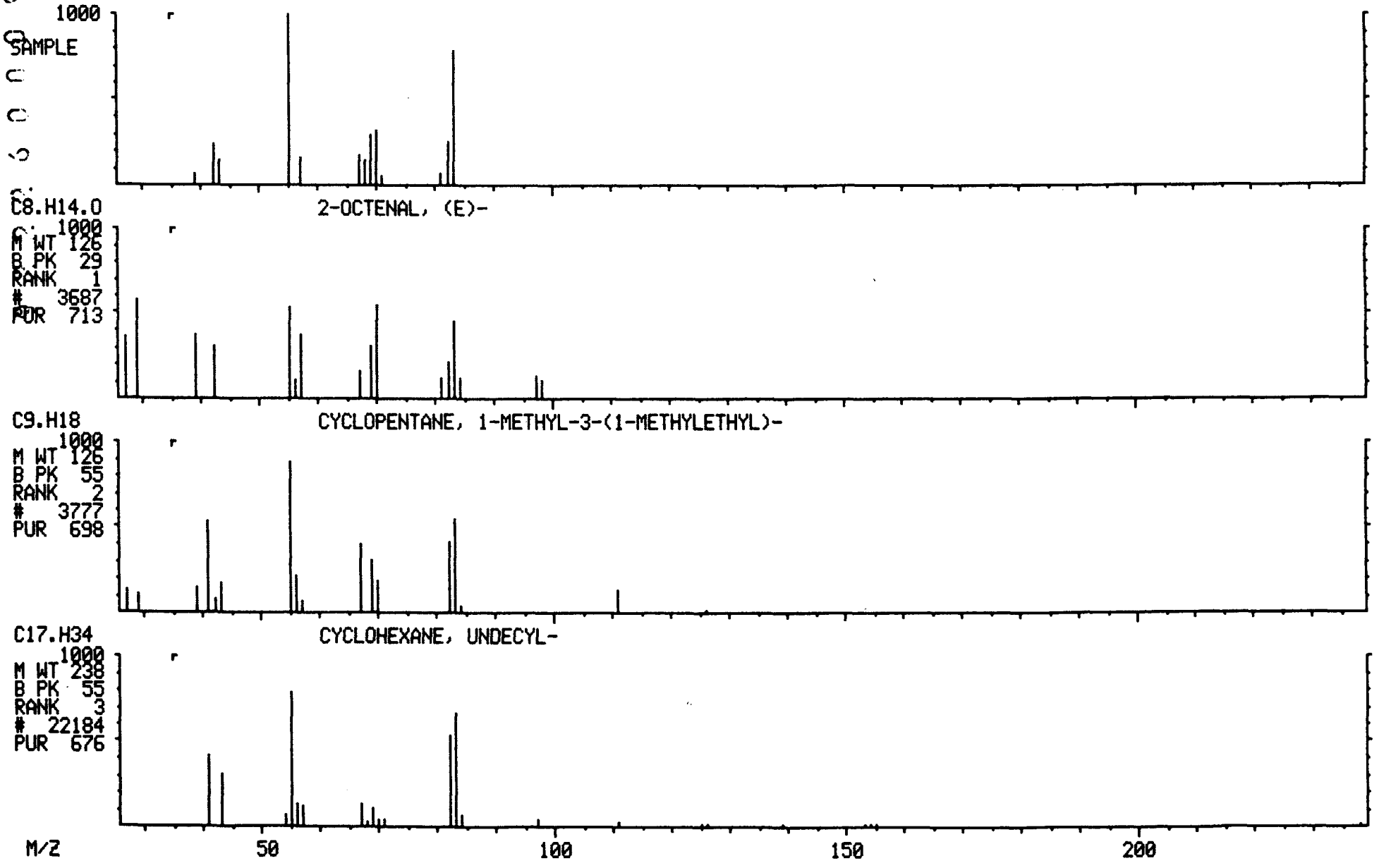
9222300964

0002208

LIBRARY SEARCH
04/02/91 15:11:00 + 7:10
SAMPLE: 90902, RERUN @ 1.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC09 # 537
CALI: B0402LC09 # 3

BASE M/Z: 55
RIC: 229.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103DL

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190902DL

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0403LC04

Level: (low/med) MED Date Received: 03/28/91

% Moisture: not dec. 24 Date Analyzed: 04/03/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1600	U
74-83-9	Bromomethane	1600	U
75-01-4	Vinyl Chloride	1600	U
75-00-3	Chloroethane	1600	U
75-09-2	Methylene Chloride	820	U
67-64-1	Acetone	1600	DJ
75-15-0	Carbon Disulfide	820	U
75-35-4	1,1-Dichloroethene	820	U
75-34-3	1,1-Dichloroethane	820	U
540-59-0	1,2-Dichloroethene (total)	820	U
67-66-3	Chloroform	820	U
107-06-2	1,2-Dichloroethane	820	U
78-93-3	2-Butanone	1600	U
71-55-6	1,1,1-Trichloroethane	820	U
56-23-5	Carbon Tetrachloride	820	U
108-05-4	Vinyl Acetate	1600	U
75-27-4	Bromodichloromethane	820	U
78-87-5	1,2-Dichloropropane	820	U
10061-01-5	cis-1,3-Dichloropropene	820	U
79-01-6	Trichloroethene	820	U
124-48-1	Dibromochloromethane	820	U
79-00-5	1,1,2-Trichloroethane	820	U
71-43-2	Benzene	820	U
10061-02-6	trans-1,3-Dichloropropene	820	U
75-25-2	Bromoform	820	U
108-10-1	4-Methyl-2-Pentanone	1600	U
591-78-6	2-Hexanone	1600	U
127-18-4	Tetrachloroethene	820	U
79-34-5	1,1,2,2-Tetrachloroethane	820	U
108-88-3	Toluene	820	U
108-90-7	Chlorobenzene	820	U
100-41-4	Ethylbenzene	820	U
100-42-5	Styrene	820	U
1330-20-7	Xylene (total)	820	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103DL

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190902DL

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0403LC04

Level: (low/med) MED Date Received: 03/28/91

% Moisture: not dec. 24 Date Analyzed: 04/03/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

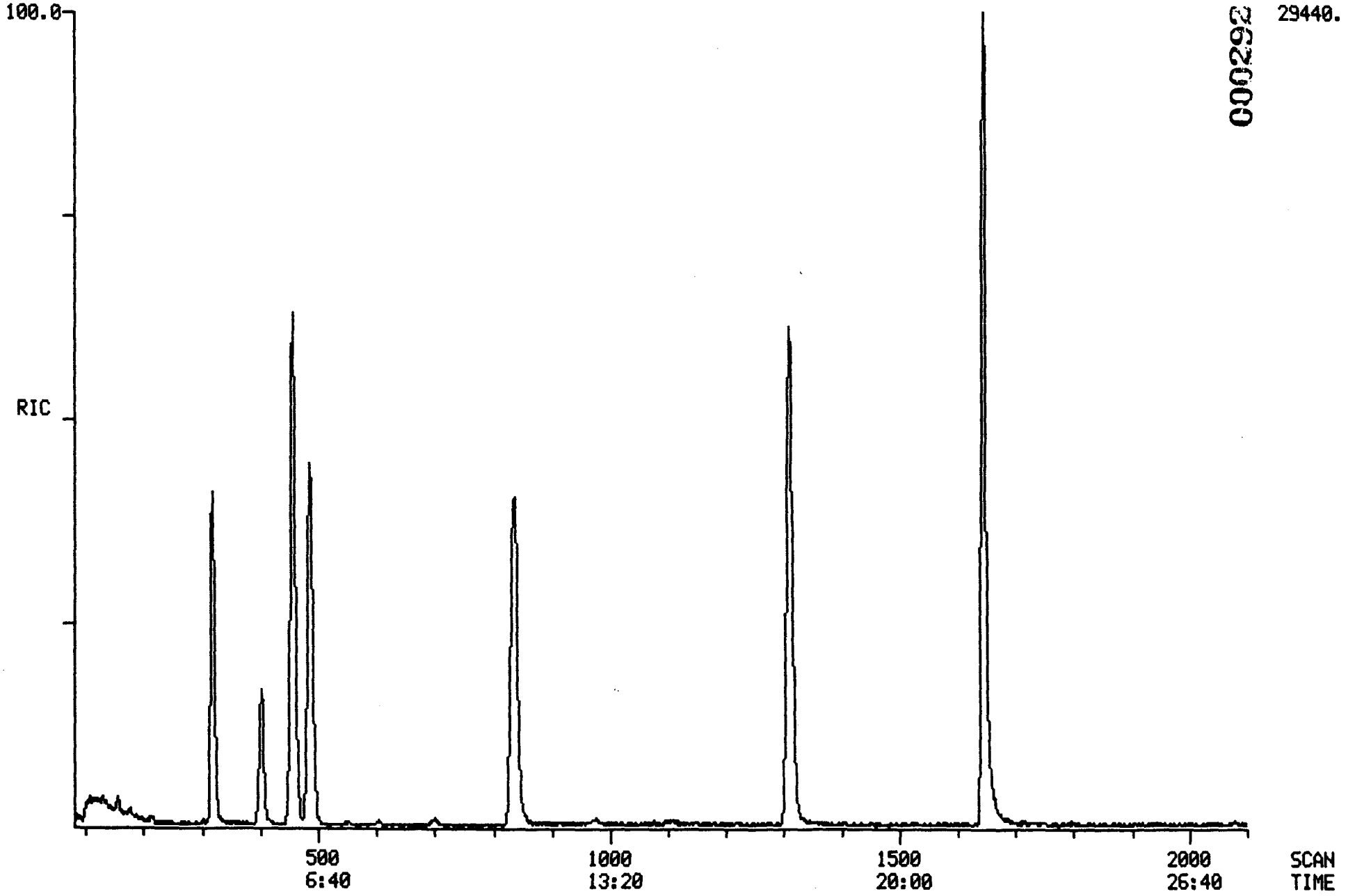
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

X 103 DL

RIC
04/03/91 11:19:00
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0403LC04 #1
CALI: B0403LC04 #3

SCANS 80 TO 2100

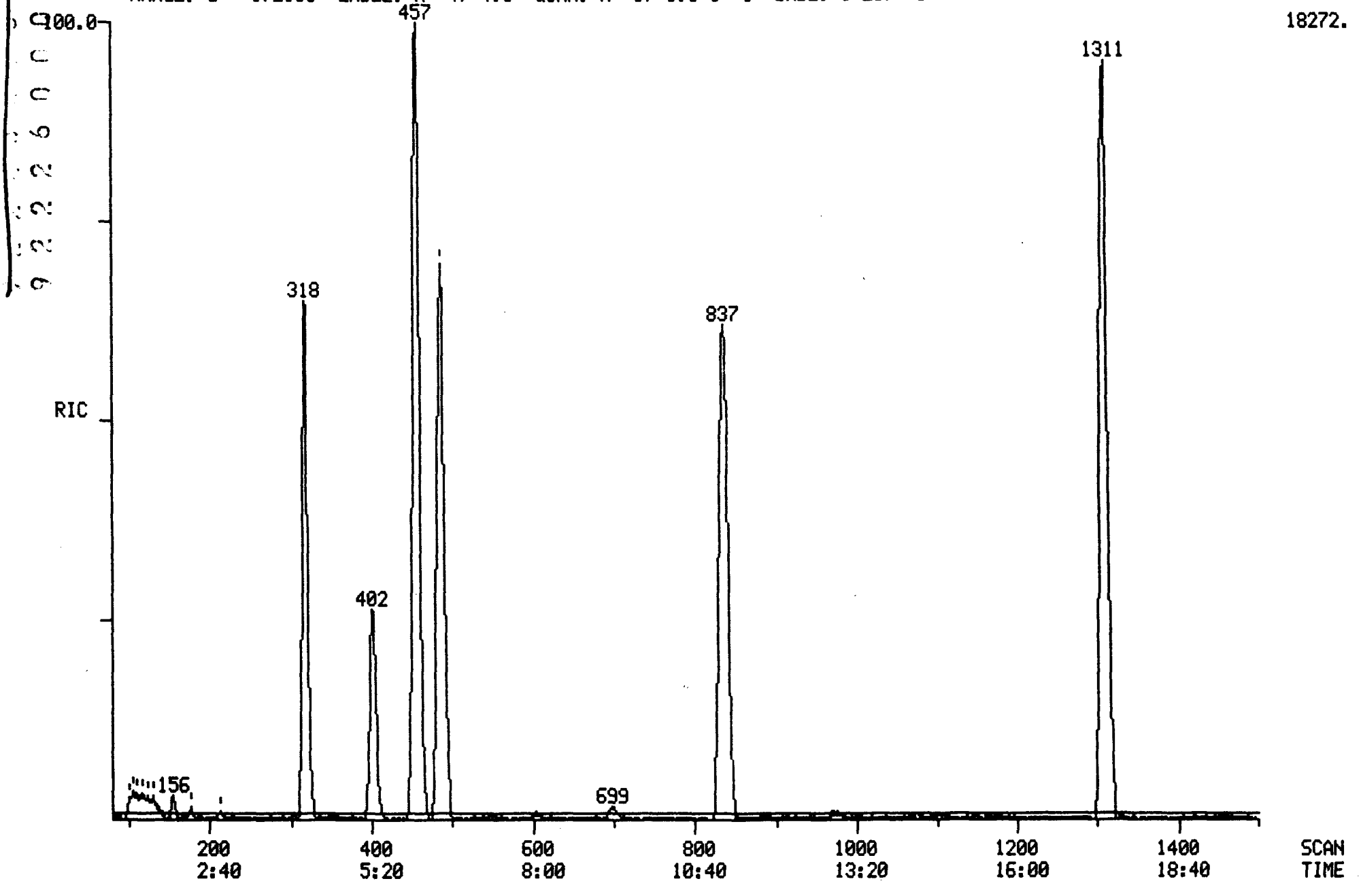


TCA FINISHED, 10 FOUND
FINISHED AT: 4/03/91 16:53:53

000292

RIC DATA: B0403LC04 #1 SCANS 80 TO 1500
04/03/91 11:19:00 CALI: B0403LC04 #3
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

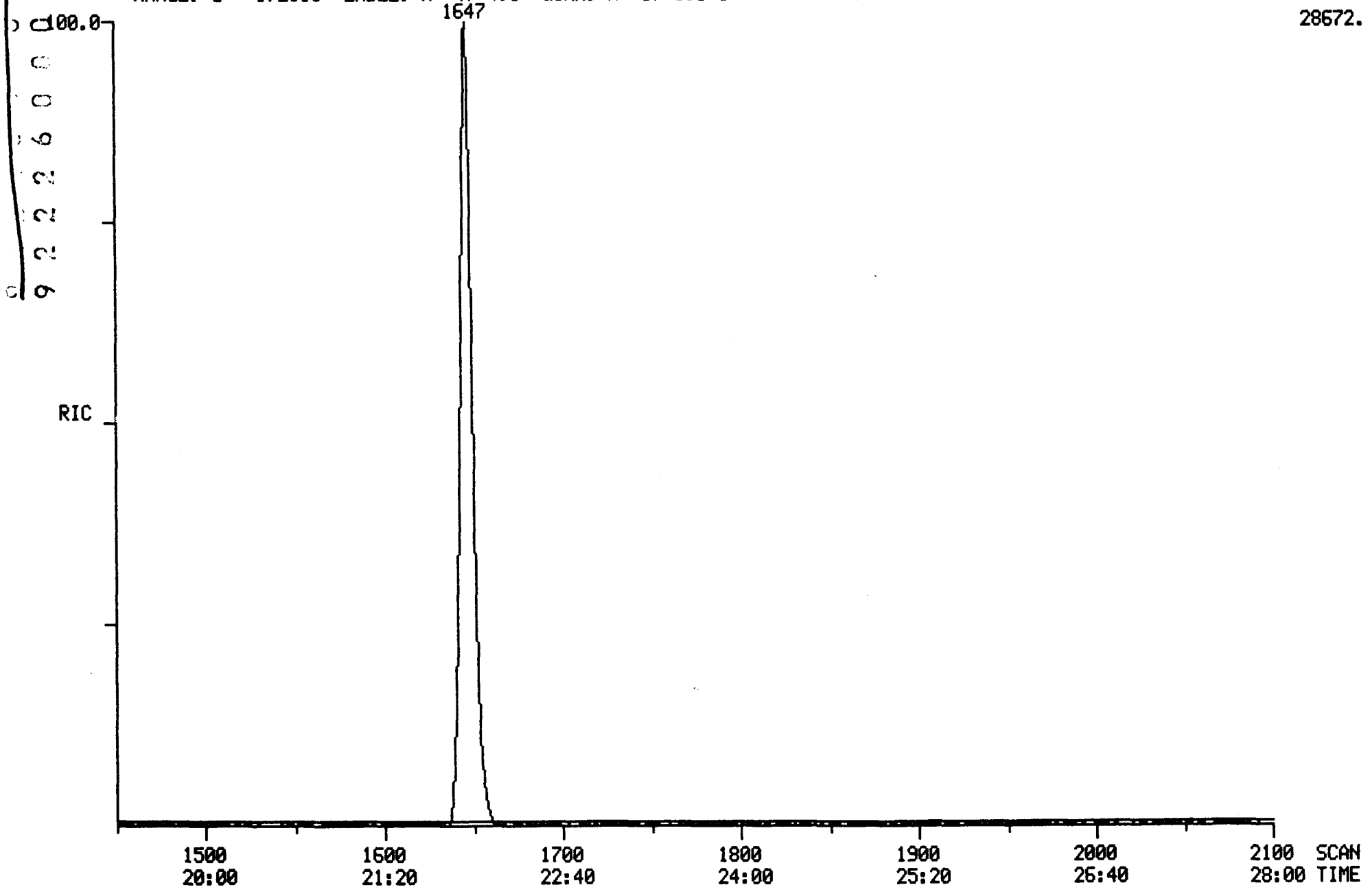
000293



RIC
04/03/91 11:19:00
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0403LC04 #1
CALI: B0403LC04 #3

SCANS 1450 TO 2100



28672.

000294

9222600970

4/3/91 11:19:34 SCAN 1 OF 2100
Acquisition started

Acquire
04/03/91 11:19:00 + 0:01
Sample: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0403LC04
Free sectors: 5517
Instrument: 5100
Analyst: LC

Acquiring
Scan: 1 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 30 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.200
Samp int (ms): 0.200

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

000295

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7

4/3/91 11:47:36
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	8.3	1680.0	0.5	23575.	11.	14.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/03/91 11:47:54
DATA FILE: B0403LC04
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	5	239	CLSRT1/CLSTC1
1	1	1	0	13	3	1	105	CLSRT2/CLSTC2
1	1	1	0	16	4	1	154	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 10 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------- >									
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	322	318	318	.	1	972	.	128	318	.	1
2	CS	2	-87	97	.	.	.	.	.	50	.	.	.
3	CS	3	-98	107	.	.	.	.	.	94	.	.	.
4	CS	4	-90	100	.	.	.	.	.	62	.	.	.
5	CS	5	-98	107	.	.	.	.	.	64	107	.	2
6	CS	6	174	179	177	-2	1	903	.	84	176	-1	1
7	CS	7	147	153	155	2	5	967	.	43	155	.	1
8	CS	8	-150	156	.	.	.	.	.	76	.	.	.
9	CS	9	-138	145	.	.	.	.	.	96	.	.	.
10	CS	10	-230	231	.	.	.	.	.	63	.	.	.
11	CS	12	-338	333	.	.	.	.	.	83	335	.	1
12	CS	13	-352	346	.	.	.	.	.	97	.	.	.
13	CS	14	-107	116	.	.	.	.	.	101	119	.	1
14	CS	15	-192	196	.	.	.	.	.	96	.	.	.
15	CS	16	-293	291	.	.	.	.	.	96	.	.	.
16	CS	17	496	487	487	.	1	996	.	114	487	.	1
17	CS	18	-424	416	.	.	.	.	.	62	.	.	.
18	CS	19	308	304	304	.	1	907	.	72	303	-1	1
19	CS	20	-377	371	.	.	.	.	.	117	.	.	.
20	CS	21	-246	243	.	.	.	.	.	43	240	.	2
21	CS	22	-677	663	.	.	.	.	.	83	.	.	.
22	CS	23	-592	580	.	.	.	.	.	63	.	.	.
23	CS	24	-805	787	.	.	.	.	.	75	.	.	.
24	CS	25	-538	527	.	.	.	.	.	130	.	.	.
25	CS	27	-412	405	.	.	.	.	.	78	402	.	1
26	CS	28	-787	770	.	.	.	.	.	106	.	.	.
27	CS	29	410	403	402	-1	1	972	.	65	402	.	1
28	CS	43	-1631	1591	.	.	.	.	.	173	.	.	.
29	CS	30	1312	1311	1311	.	1	995	.	117	1310	-1	1
30	CS	26	-1140	1136	.	.	.	.	.	129	.	.	.
31	CS	31	-1024	1018	.	.	.	.	.	97	.	.	.
32	CS	32	-972	966	.	.	.	.	.	75	.	.	.
33	CS	33	-1146	1142	.	.	.	.	.	43	1139	.	2
34	CS	34	-860	852	.	.	.	.	.	43	848	.	2
35	CS	35	-1023	1017	.	.	.	.	.	164	.	.	.
36	CS	36	-1717	1720	.	.	.	.	.	83	.	.	.
37	CS	37	864	856	855	-1	1	916	.	91	856	1	1
38	CS	38	-1322	1320	.	.	.	.	.	112	.	.	.
39	CS	39	-1372	1370	.	.	.	.	.	106	.	.	.
40	CS	40	-1522	1522	.	.	.	.	.	104	.	.	.
41	CS	41	-1408	1407	.	.	.	.	.	106	1407	.	1
42	CS	42	-1512	1512	.	.	.	.	.	106	1511	.	1
43	CS	44	1646	1648	1647	-1	1	993	.	95	1647	.	1
44	CS	45	844	836	837	1	1	995	.	98	837	.	1

Quantitation Report File: B0403LC04

Data: B0403LC04.TI
04/03/91 11:19:00
Sample: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H20
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	318	4:14	1	1.000	A BB	10424.	50.000 UG/G	11.96
2	NOT	FOUND							
3	NOT	FOUND							
4	NOT	FOUND							
5	64	107	1:26	1	0.336	A*BB	66.	~~0.610~~ UG/G	0.15
6	84	176	2:21	1	0.553	A BB	145.	~~0.438~~ UG/G	0.10
7	43	155	2:04	1	0.487	A BB	1291.	9.916 UG/G	2.37
8	NOT	FOUND							
9	NOT	FOUND							
10	NOT	FOUND							
11	83	335	4:28	1	1.053	A BB	259.	~~0.397~~ UG/G	0.09
12	NOT	FOUND							
13	101	119	1:35	1	0.374	A VV	218.	~~1.605~~ UG/G	0.38
14	NOT	FOUND							
15	NOT	FOUND							
16	114	487	6:30	16	1.000	A BB	51430.	50.000 UG/G	11.96
17	NOT	FOUND							
18	72	303	4:02	16	0.622	A BB	65.	~~1.392~~ UG/G	0.33
19	NOT	FOUND							
20	43	240	3:12	16	0.493	A*BB	162.	~~0.694~~ UG/G	0.17
21	NOT	FOUND							
22	NOT	FOUND							
23	NOT	FOUND							
24	NOT	FOUND							
25	78	402	5:22	16	0.825	A BB	249.	~~0.227~~ UG/G	0.05
26	NOT	FOUND							
27	65	402	5:22	16	0.825	A BB	11427.	76.991 %	18.42
28	NOT	FOUND							
29	117	1310	17:28	29	1.000	A BB	55798.	50.000 UG/G	11.96
30	NOT	FOUND							
31	NOT	FOUND							
32	NOT	FOUND							
33	43	1139	15:11	29	0.869	A*VB	145.	~~0.318~~ UG/G	0.08
34	43	848	11:18	29	0.647	A*BB	175.	~~0.390~~ UG/G	0.09
35	NOT	FOUND							
36	NOT	FOUND							
37	91	856	11:25	29	0.653	A BB	274.	~~0.198~~ UG/G	0.05
38	NOT	FOUND							
39	NOT	FOUND							
40	NOT	FOUND							
41	106	1407	18:46	29	1.074	A BB	43.	0.067 UG/G	0.02
42	106	1511	20:09	29	1.153	A BB	12.	0.018 UG/G	0.00
43	95	1647	21:58	29	1.257	A BB	60138.	107.330 %	25.67
44	98	837	11:10	29	0.639	A BB	60117.	80.990 %	19.38

Quantitation Report File: B0403LC04

Data: B0403LC04.TI
04/03/91 11:19:00
Sample: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 125.000
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

µg/Kg

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	318	4:14	1	1.000	A BB	10424.	6250.000 UG/G	11.96
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	64	107	1:26	1	0.336	A*BB	66.	~~76.267 UG/G~~	0.15
6	84	176	2:21	1	0.553	A BB	145.	~~54.812 UG/G~~	0.10
7	43	155	2:04	1	0.487	A BB	1291.	1239.500 UG/G	2.37
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	83	335	4:28	1	1.053	A BB	259.	~~49.600 UG/G~~	0.09
12	NOT FOUND								
13	101	119	1:35	1	0.374	A VV	218.	~~200.677 UG/G~~	0.38
14	NOT FOUND								
15	NOT FOUND								
16	114	487	6:30	16	1.000	A BB	51430.	6250.000 UG/G	11.96
17	NOT FOUND								
18	72	303	4:02	16	0.622	A BB	65.	~~173.940 UG/G~~	0.33
19	NOT FOUND								
20	43	240	3:12	16	0.493	A*BB	162.	~~86.792 UG/G~~	0.17
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	78	402	5:22	16	0.825	A BB	249.	~~28.422 UG/G~~	0.05
26	NOT FOUND								
27	65	402	5:22	16	0.825	A BB	11427.	9623.920 %	18.42
28	NOT FOUND								
29	117	1310	17:28	29	1.000	A BB	55798.	6250.000 UG/G	11.96
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	1139	15:11	29	0.869	A*VB	145.	~~39.757 UG/G~~	0.08
34	43	848	11:18	29	0.647	A*BB	175.	~~48.809 UG/G~~	0.09
35	NOT FOUND								
36	NOT FOUND								
37	91	856	11:25	29	0.653	A BB	274.	~~24.784 UG/G~~	0.05
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	106	1407	18:46	29	1.074	A BB	43.	~~8.363 UG/G~~	0.02
42	106	1511	20:09	29	1.153	A BB	12.	~~2.272 UG/G~~	0.00
43	95	1647	21:58	29	1.257	A BB	60138.	13416.300 %	25.68
44	98	837	11:10	29	0.639	A BB	60117.	10123.757 %	18.38

Quantitation Report File: B0403LC04A

Data: B0403LC04.TI
04/03/91 11:19:00
Sample: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.083
Resp. fac. from Library Entry

No	Name
1	THIAZOLE, 4,5-DIHYDRO-2-METHYL-
2	THIAZOLE, 4,5-DIHYDRO-2-METHYL-
3	THIAZOLE, 4,5-DIHYDRO-2-METHYL-
4	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	101	1:21	4	0.221	A BV	1626.	~~0.078~~	0.91
2	RIC	107	1:26	4	0.234	A VV	2266.	~~0.109~~	1.27
3	RIC	111	1:29	4	0.243	A VB	2048.	~~0.098~~	1.15
4	RIC	457	6:06	4	1.000	A BB	172605.	8.275	96.67

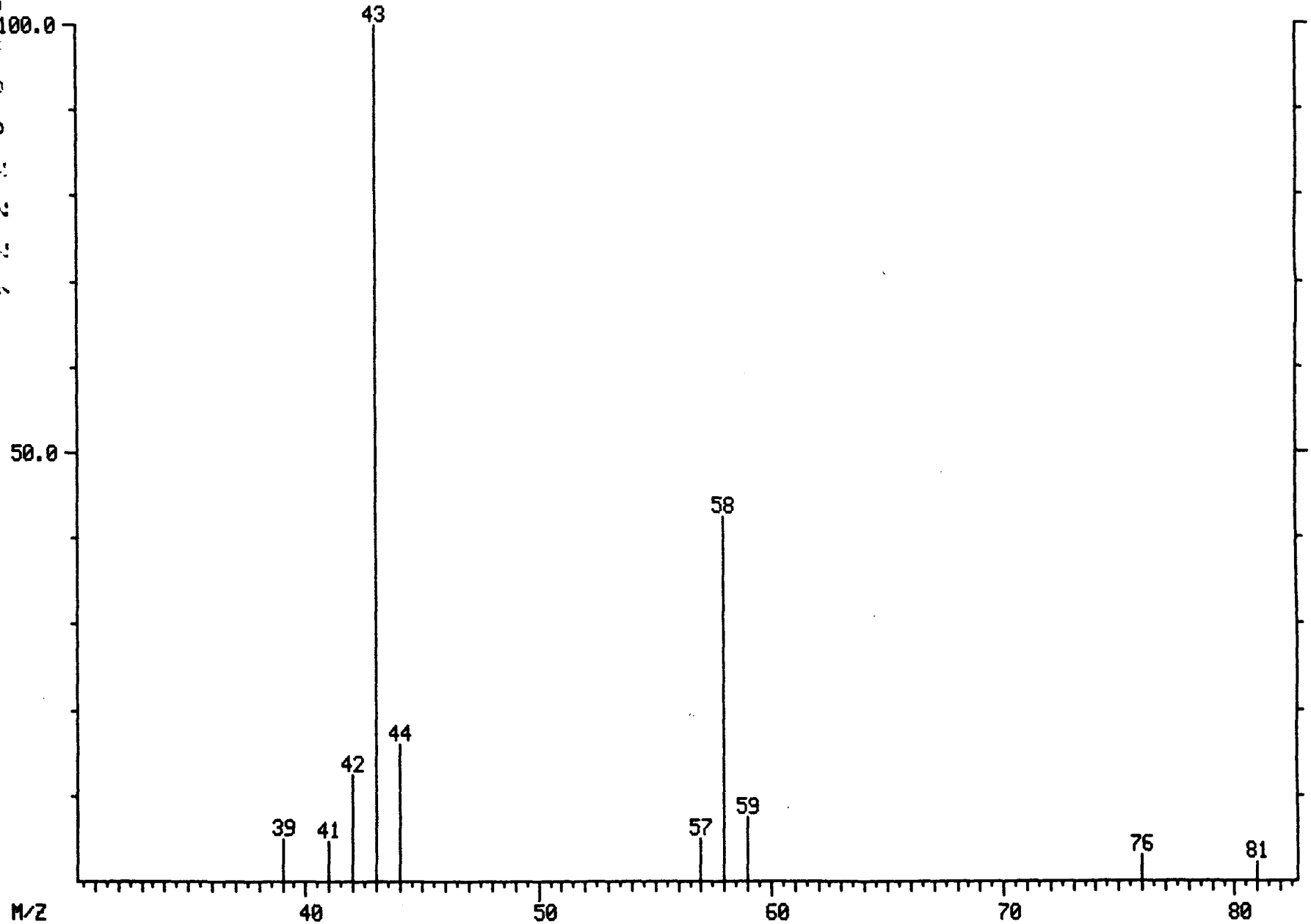
TARGET COMPOUND SPECTA

MASS SPECTRUM
04/03/91 11:19:00 + 2:04
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 34 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 #155
CALI: B0403LC04 #3

BASE M/Z: 43
RIC: 512.

000304

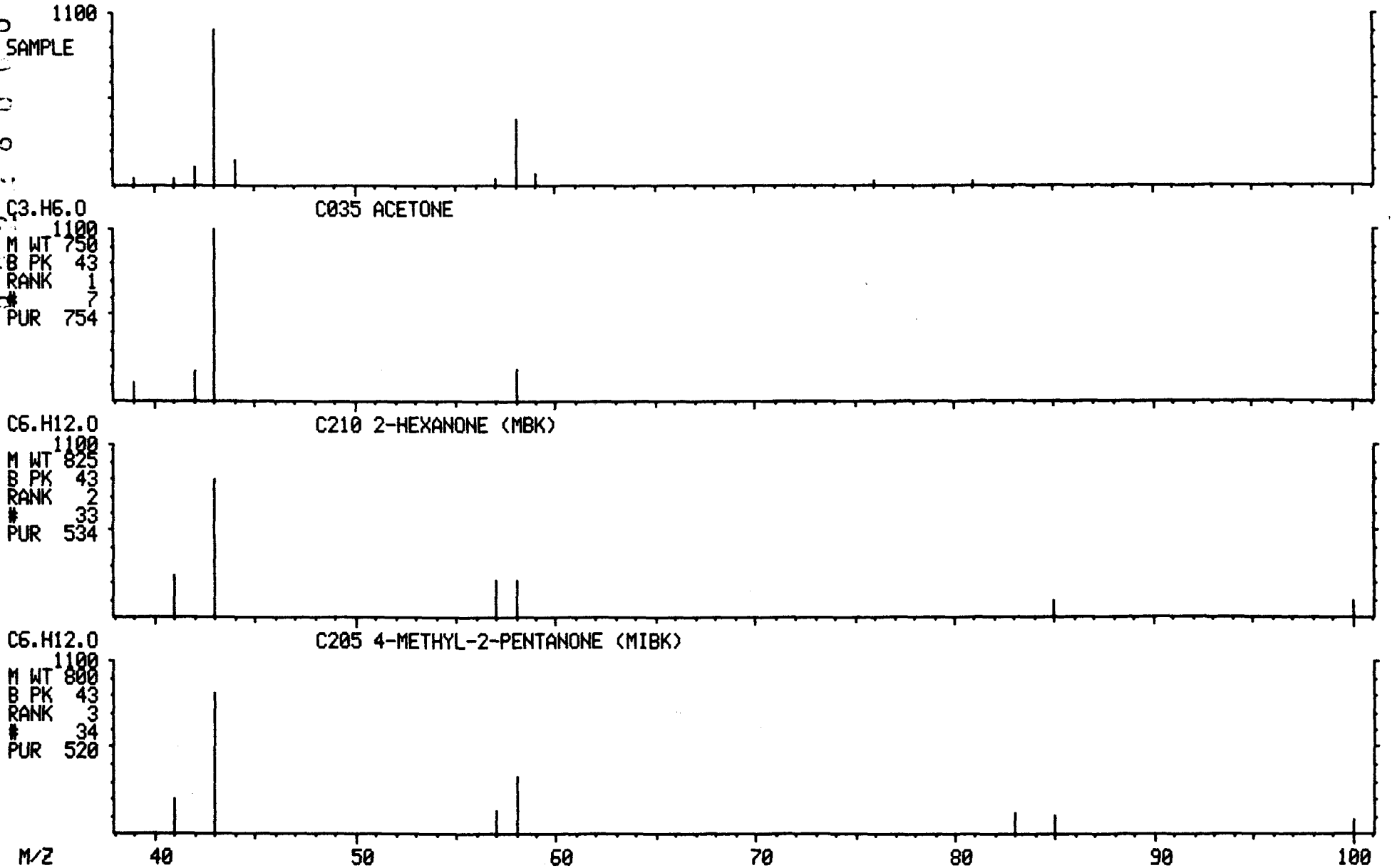


LIBRARY SEARCH
04/03/91 11:19:00 + 2:04
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 # 155
CALI: B0403LC04 # 3

BASE M/Z: 43
RIC: 511.

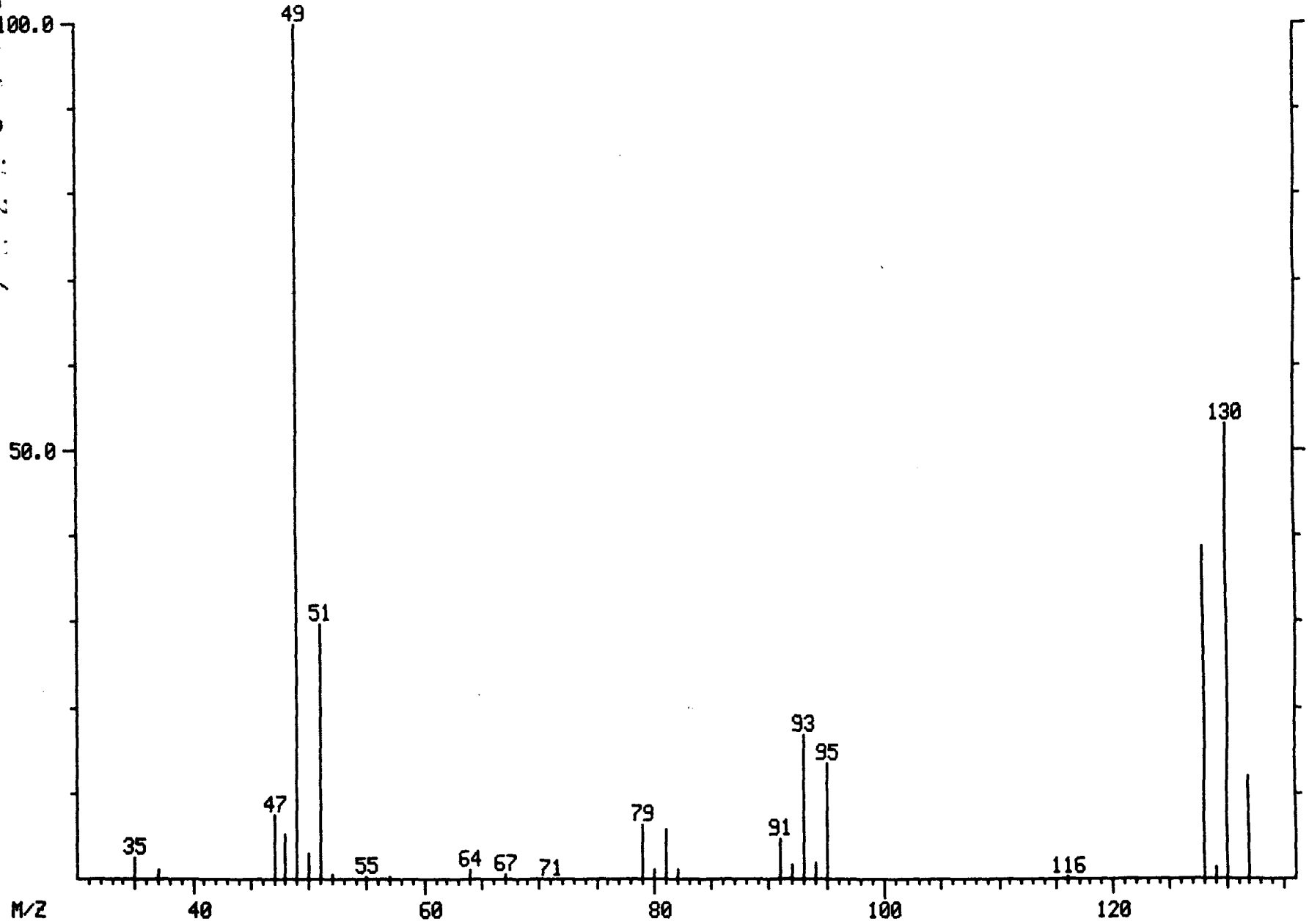
000305



MASS SPECTRUM
04/03/91 11:19:00 + 4:14
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 #318
CALI: B0403LC04 #3

BASE M/Z: 49
RIC: 10784.

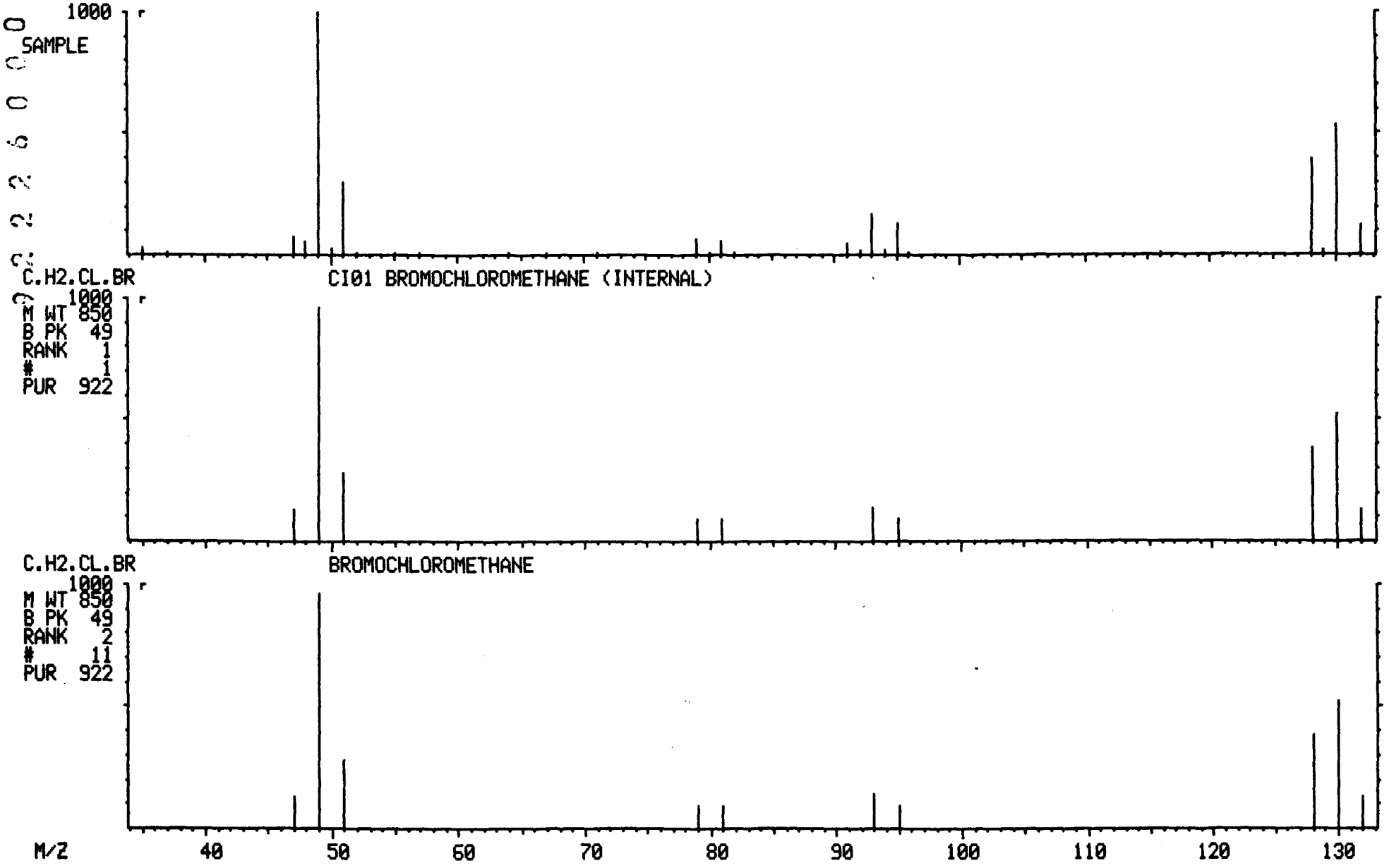


000306

LIBRARY SEARCH
04/03/91 11:19:00 + 4:14
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 # 318
CALI: B0403LC04 # 3

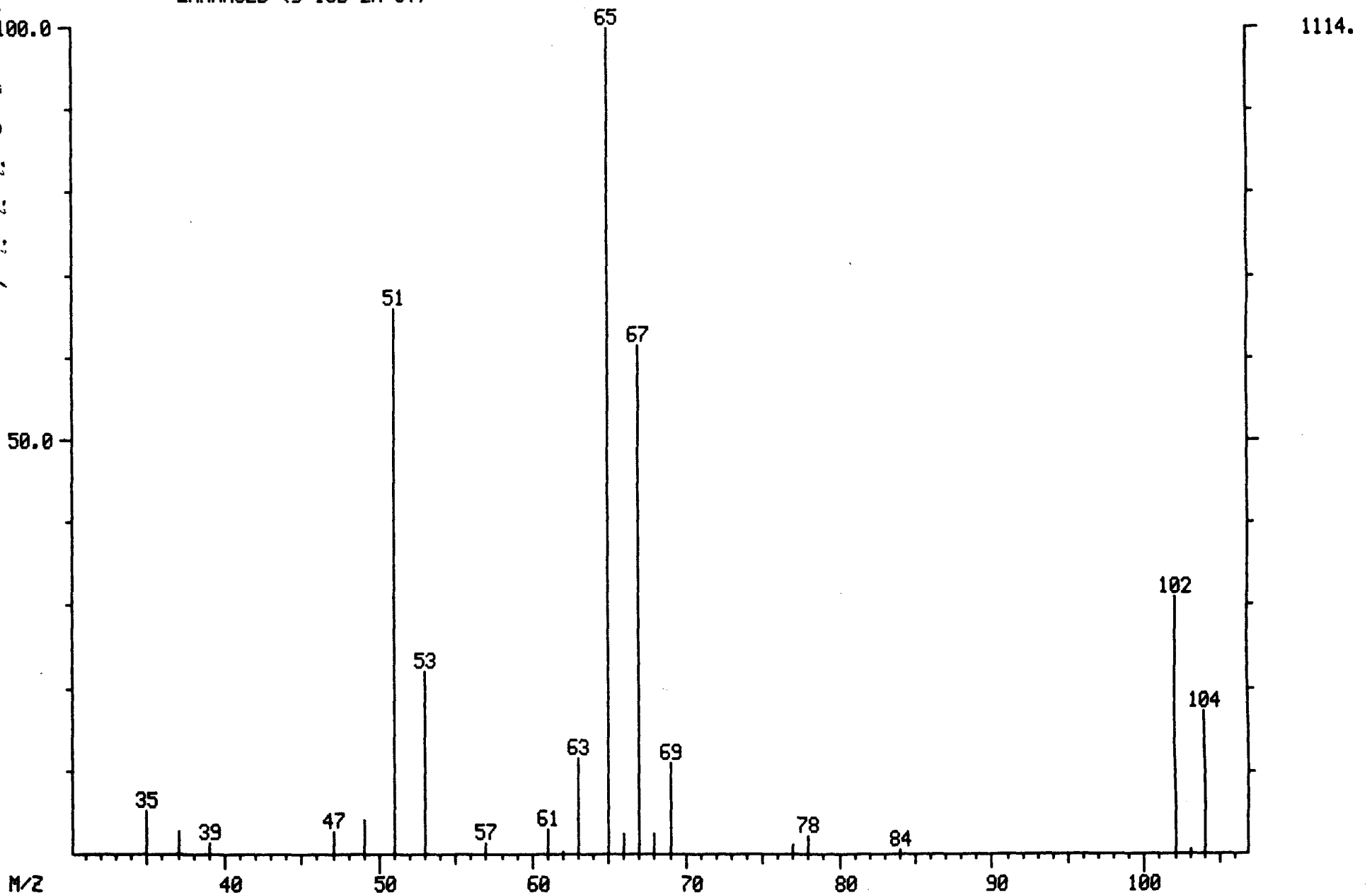
BASE M/Z: 49
RIC: 10783.



MASS SPECTRUM
04/03/91 11:19:00 + 5:22
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 #402
CALI: B0403LC04 #3

BASE M/Z: 65
RIC: 3920.



9 2 2 2 6 0 0 0 9 3 4

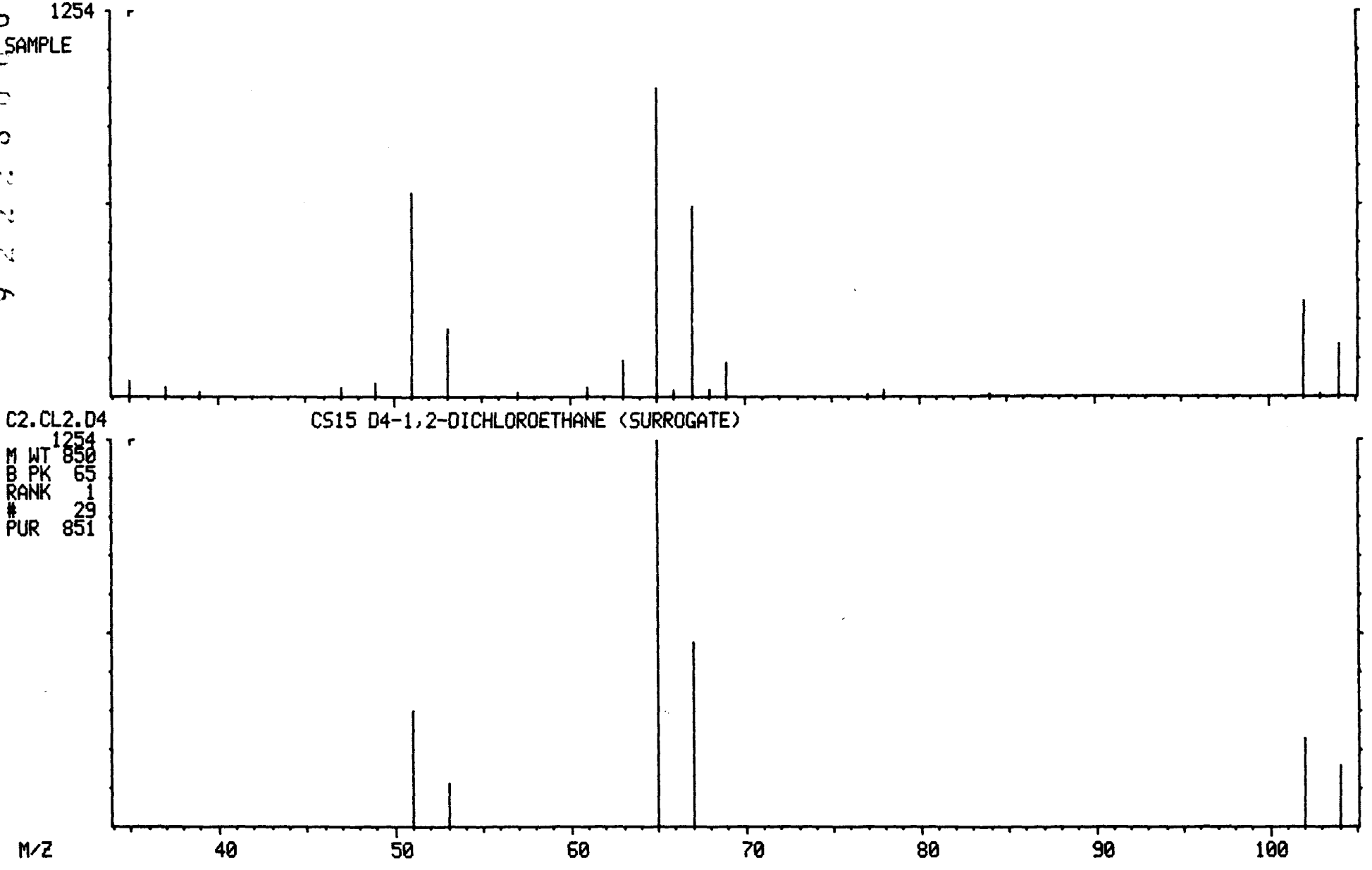
000308

LIBRARY SEARCH
04/03/91 11:19:00 + 5:22
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 # 402
CALI: B0403LC04 # 3

BASE M/Z: 65
RIC: 3915.

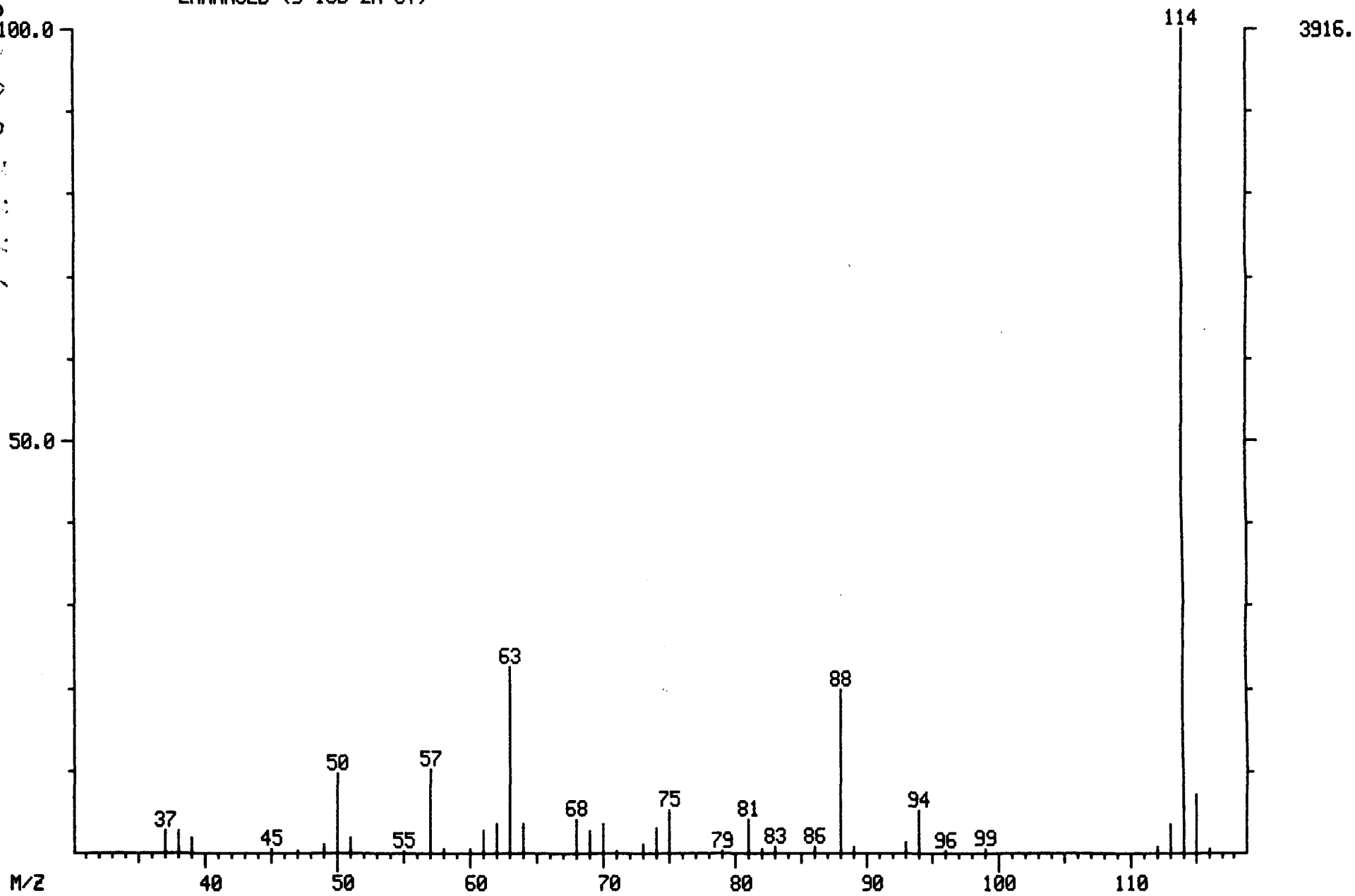
000309



MASS SPECTRUM
04/03/91 11:19:00 + 6:30
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 #487
CALI: B0403LC04 #3

BASE M/Z: 114
RIC: 9120.



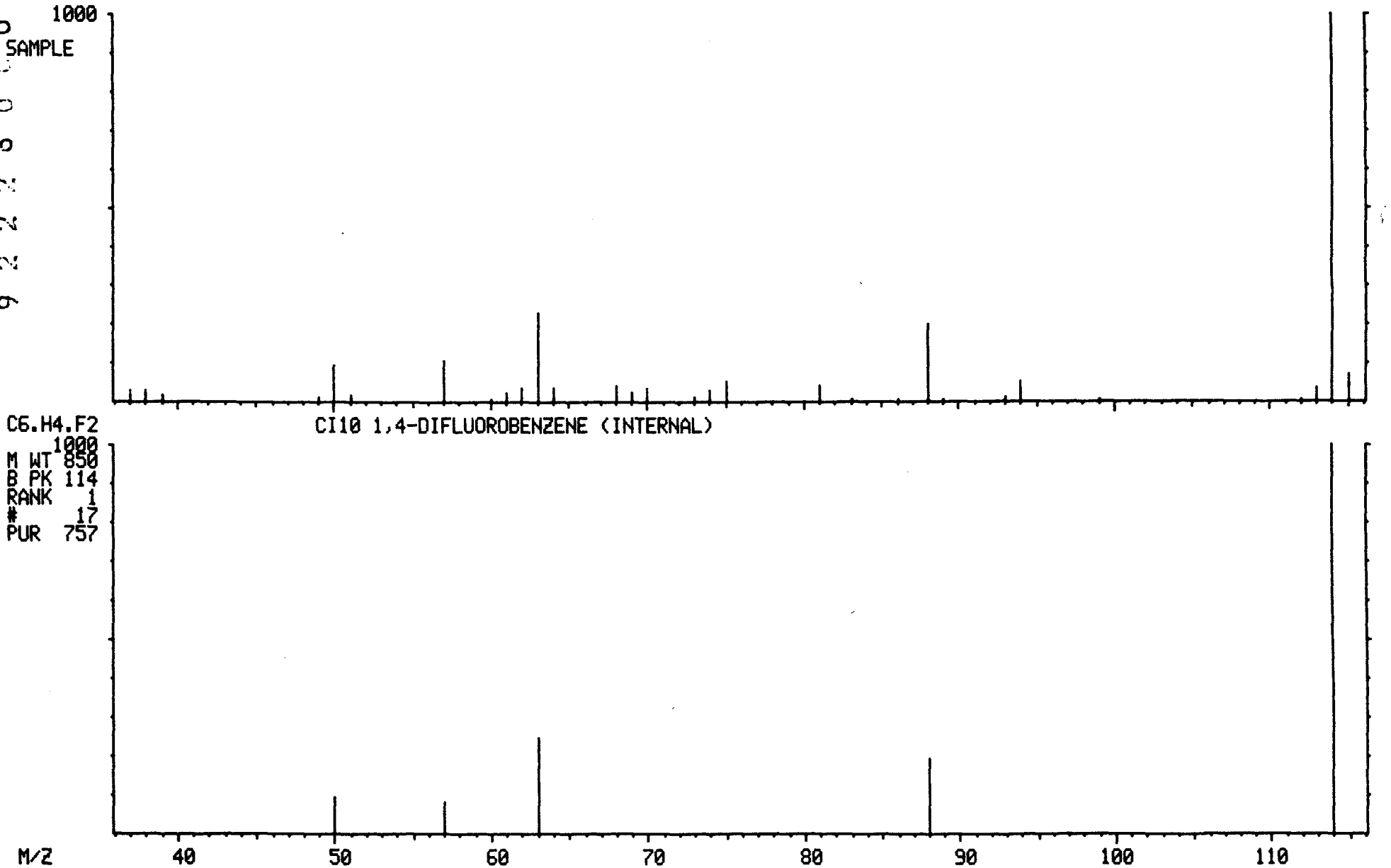
000210

LIBRARY SEARCH
04/03/91 11:19:00 + 6:30
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 # 487
CALI: B0403LC04 # 3

BASE M/Z: 114
RIC: 8959.

000311

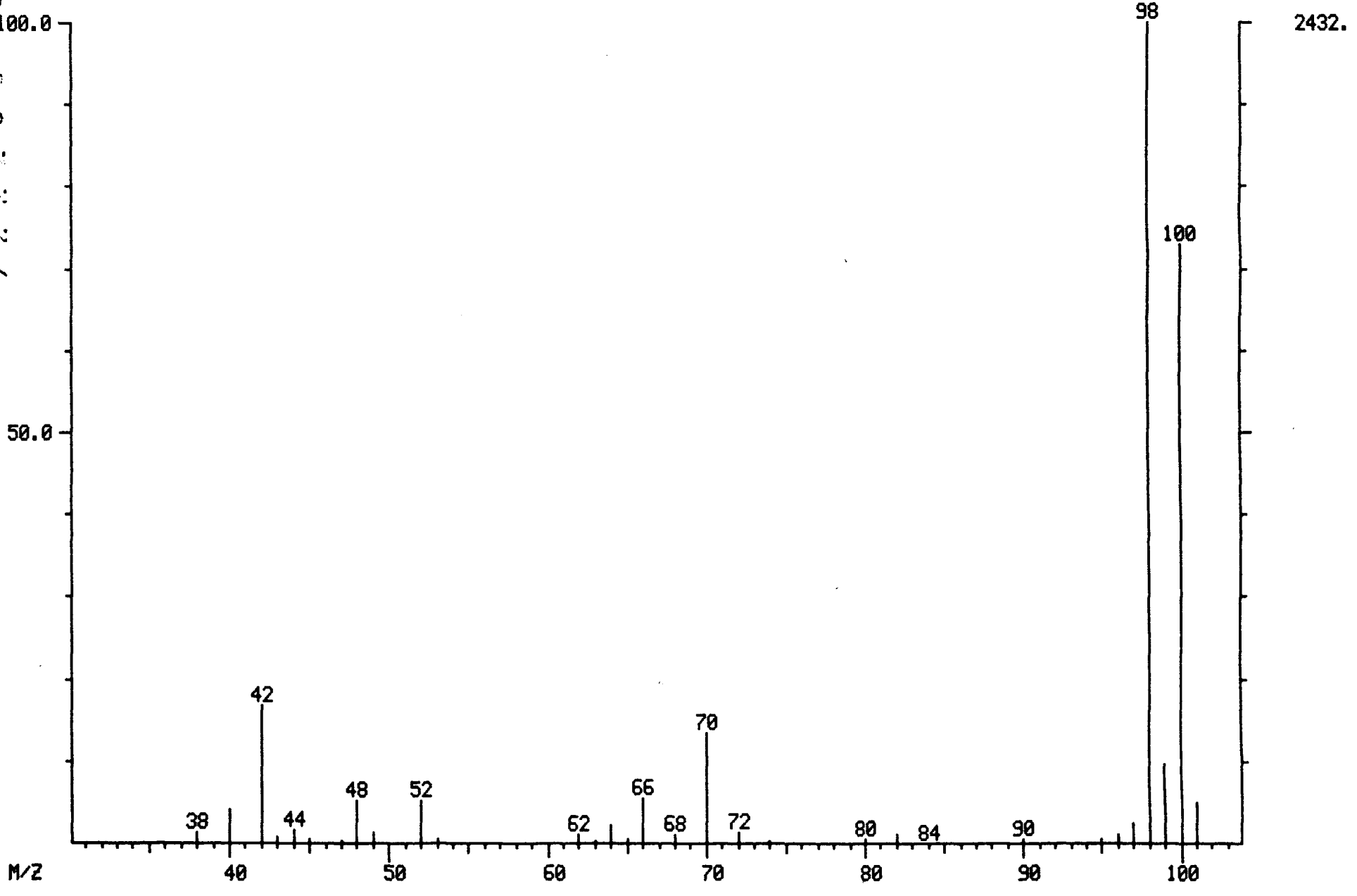


MASS SPECTRUM
04/03/91 11:19:00 + 11:10
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 #837
CALI: B0403LC04 #3

BASE M/Z: 98
RIC: 6296.

000312

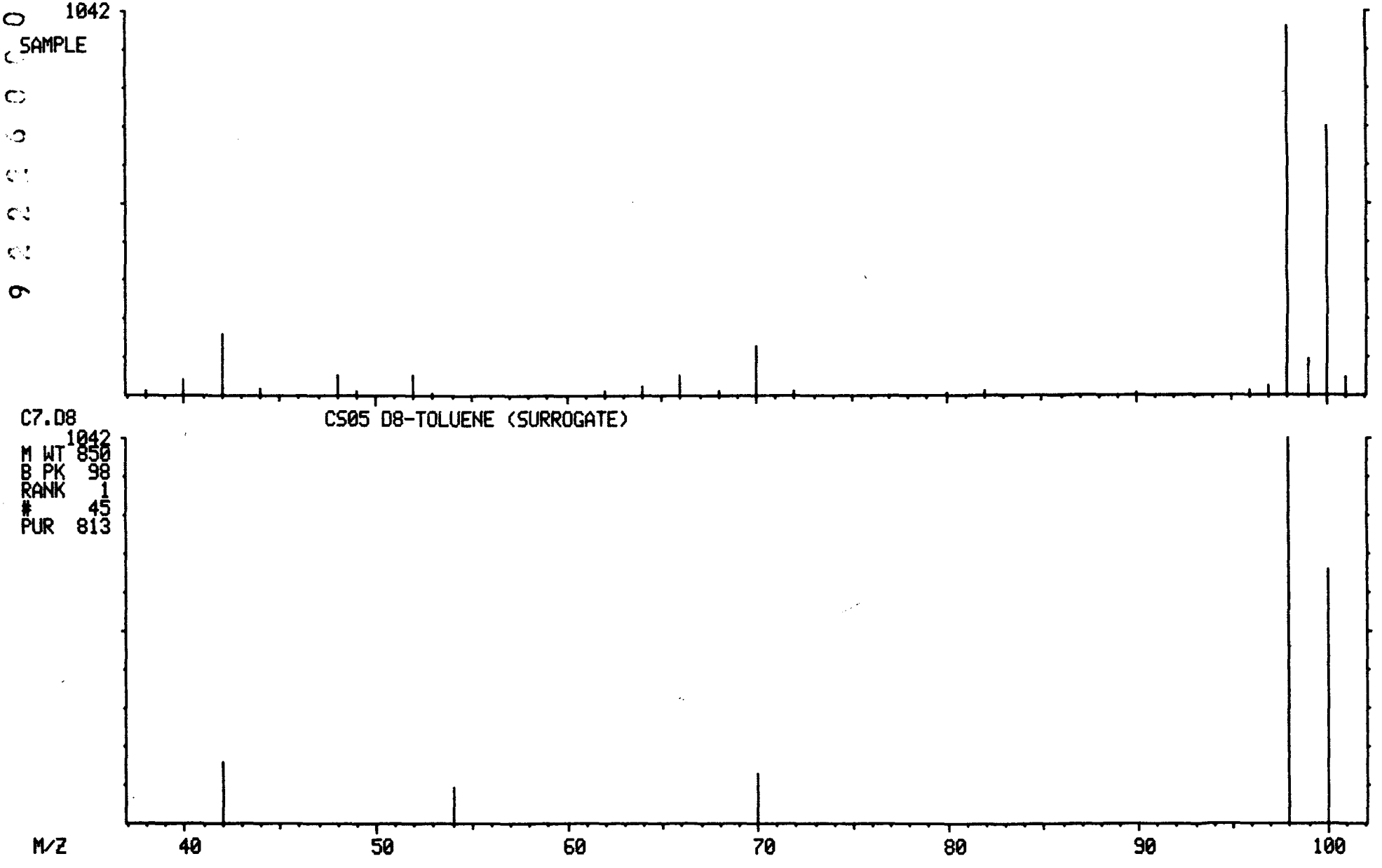


LIBRARY SEARCH
04/03/91 11:19:00 + 11:10
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 # 837
CALI: B0403LC04 # 3

BASE M/Z: 98
RIC: 6207.

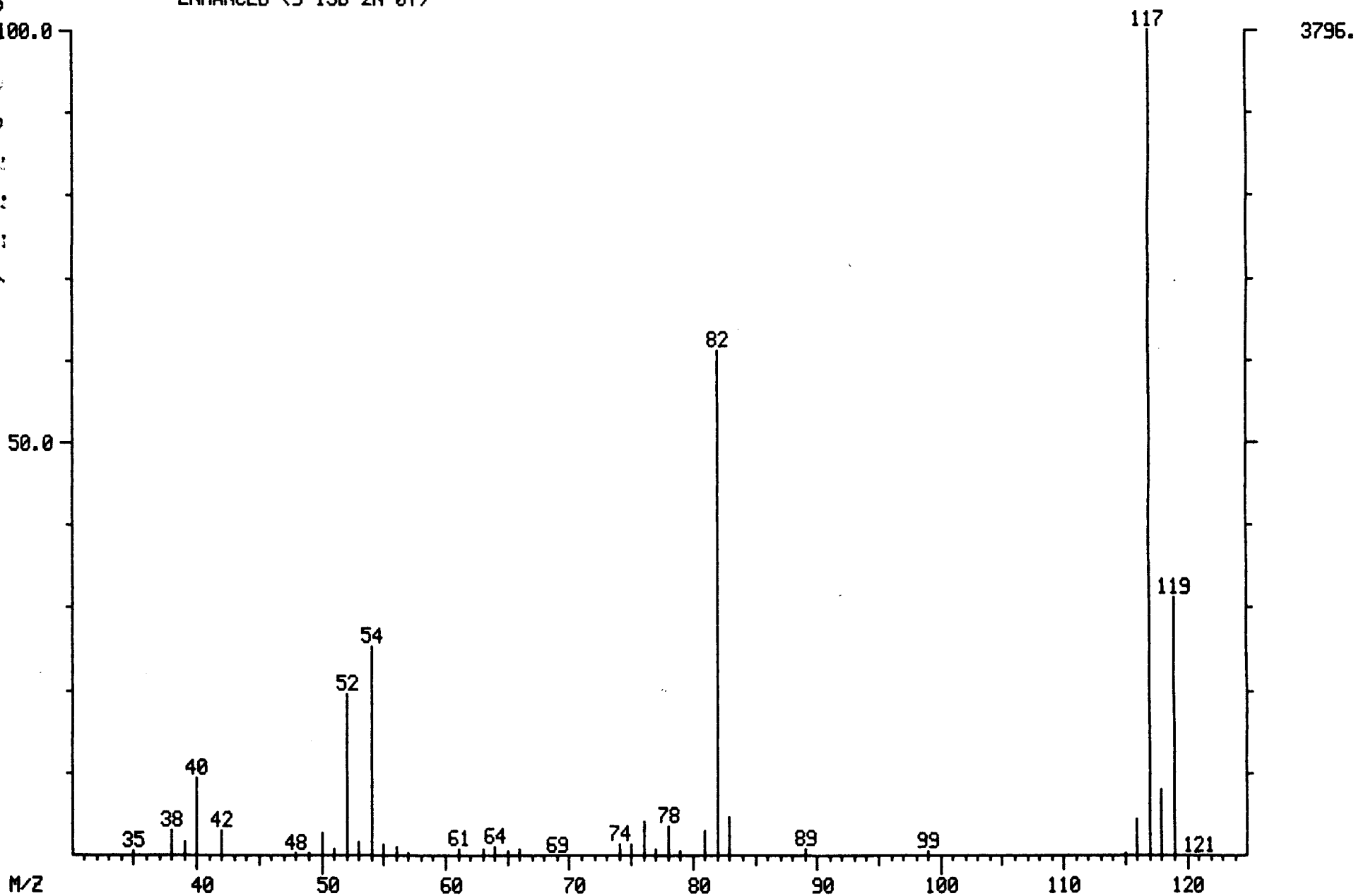
009313



MASS SPECTRUM
04/03/91 11:19:00 + 17:28
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 #1310
CALI: B0403LC04 #3

BASE M/Z: 117
RIC: 11472.



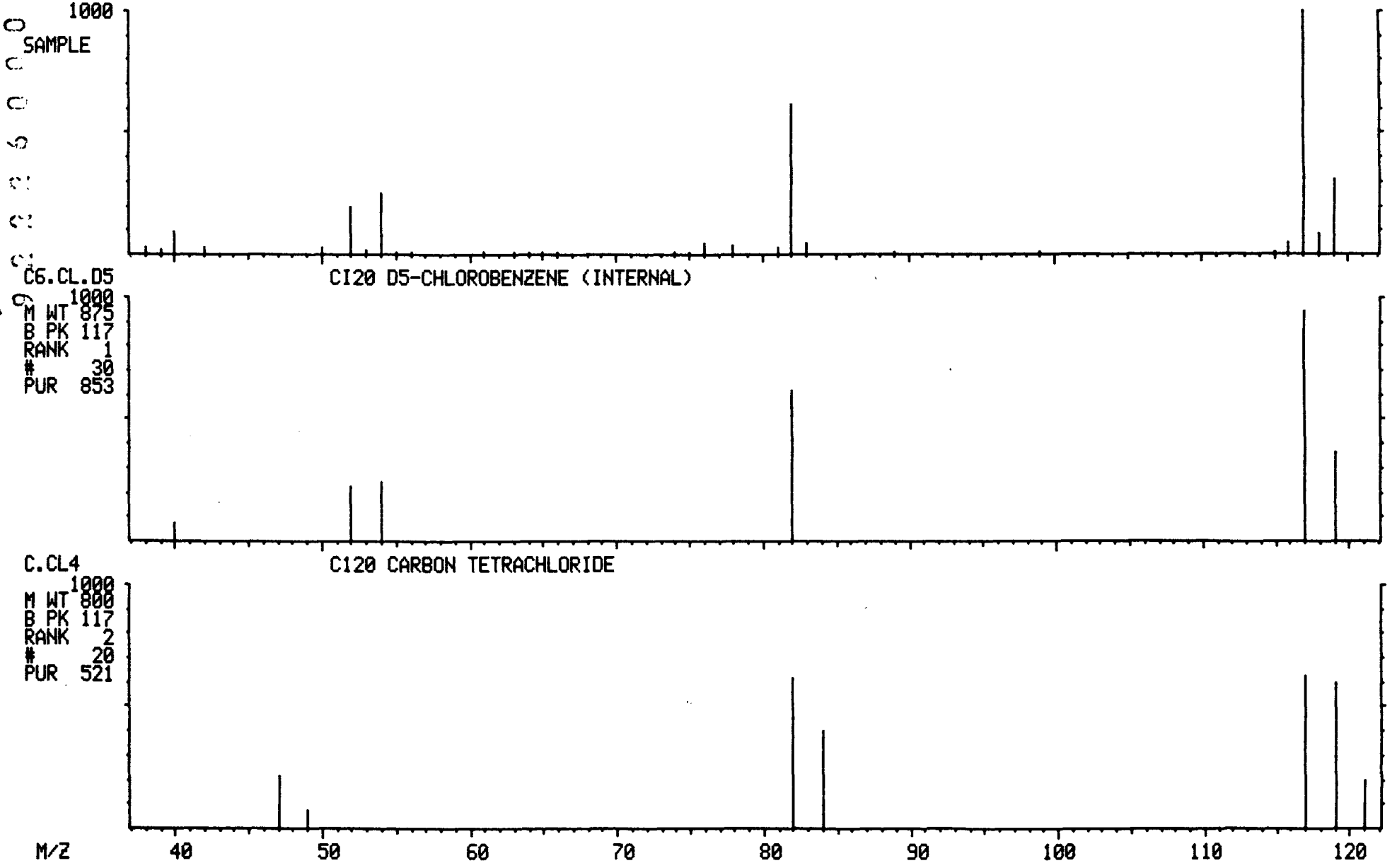
9222600909C

00021

LIBRARY SEARCH
04/03/91 11:19:00 + 17:28
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 #1310
CALI: B0403LC04 # 3

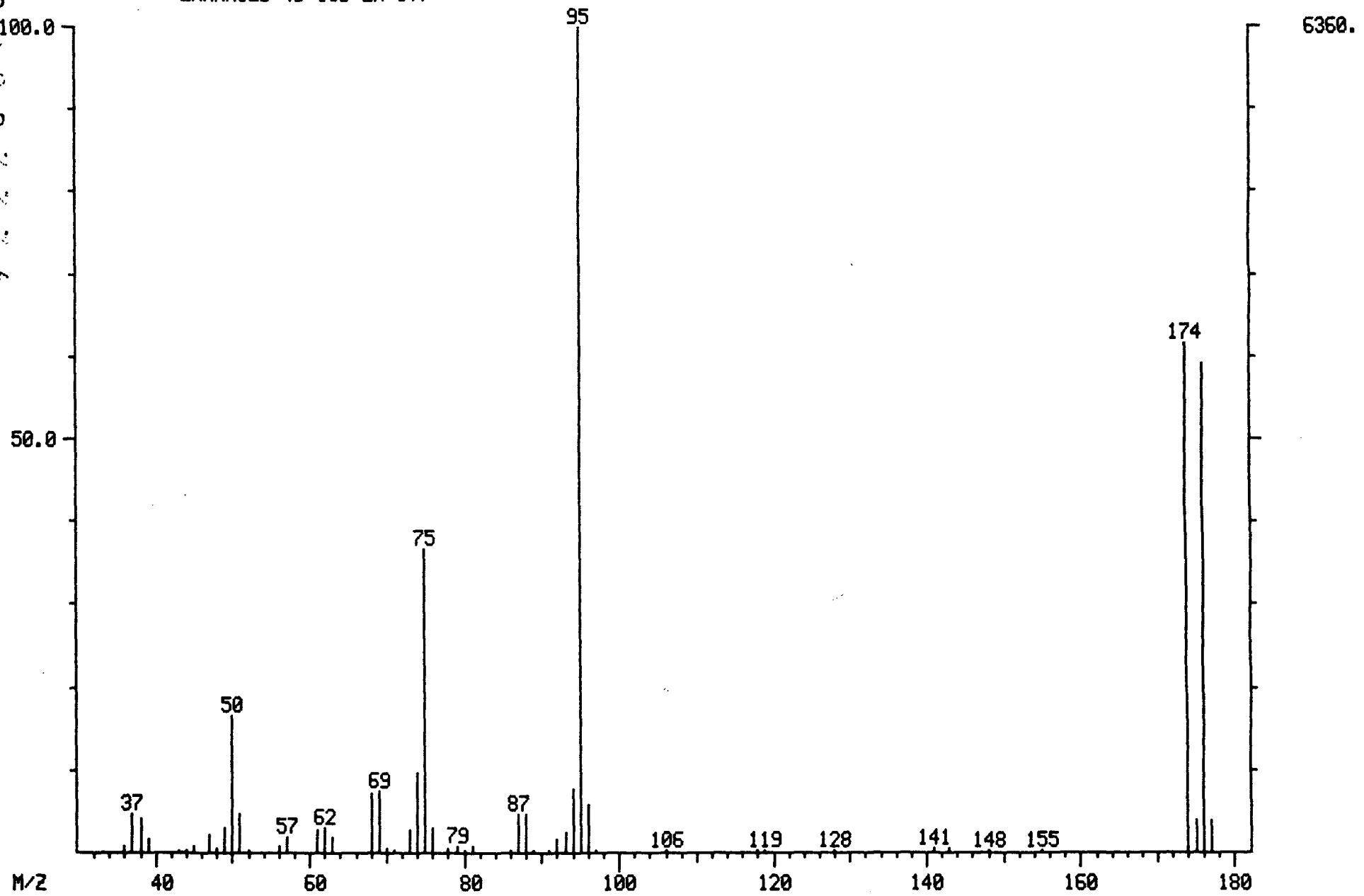
BASE M/Z: 117
RIC: 11327.



MASS SPECTRUM
04/03/91 11:19:00 + 21:58
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 #1647
CALI: B0403LC04 #3

BASE M/Z: 95
RIC: 24224.



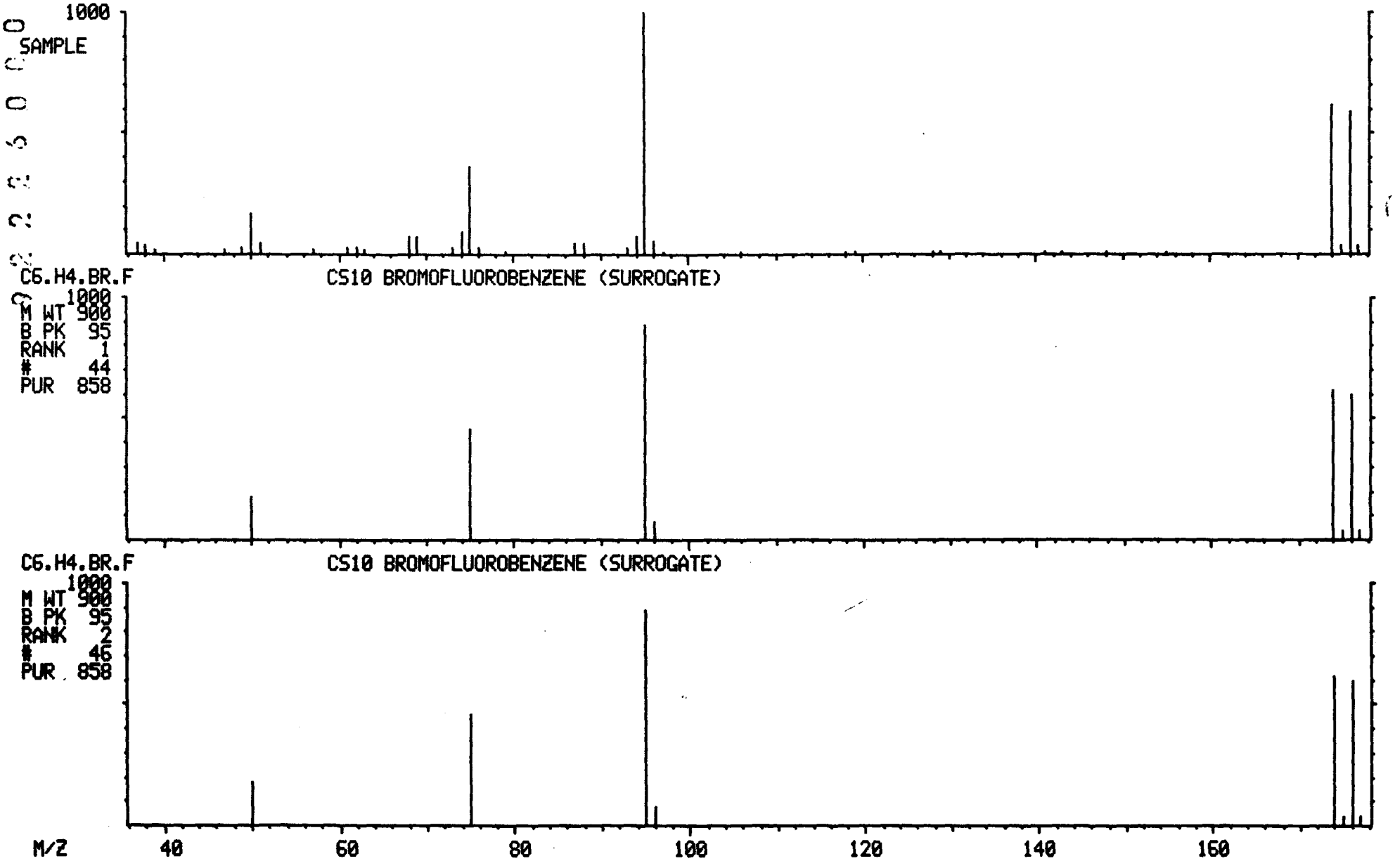
000316

LIBRARY SEARCH
04/03/91 11:19:00 + 21:58
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 #1647
CALI: B0403LC04 # 3

BASE M/Z: 95
RIC: 23679.

000217

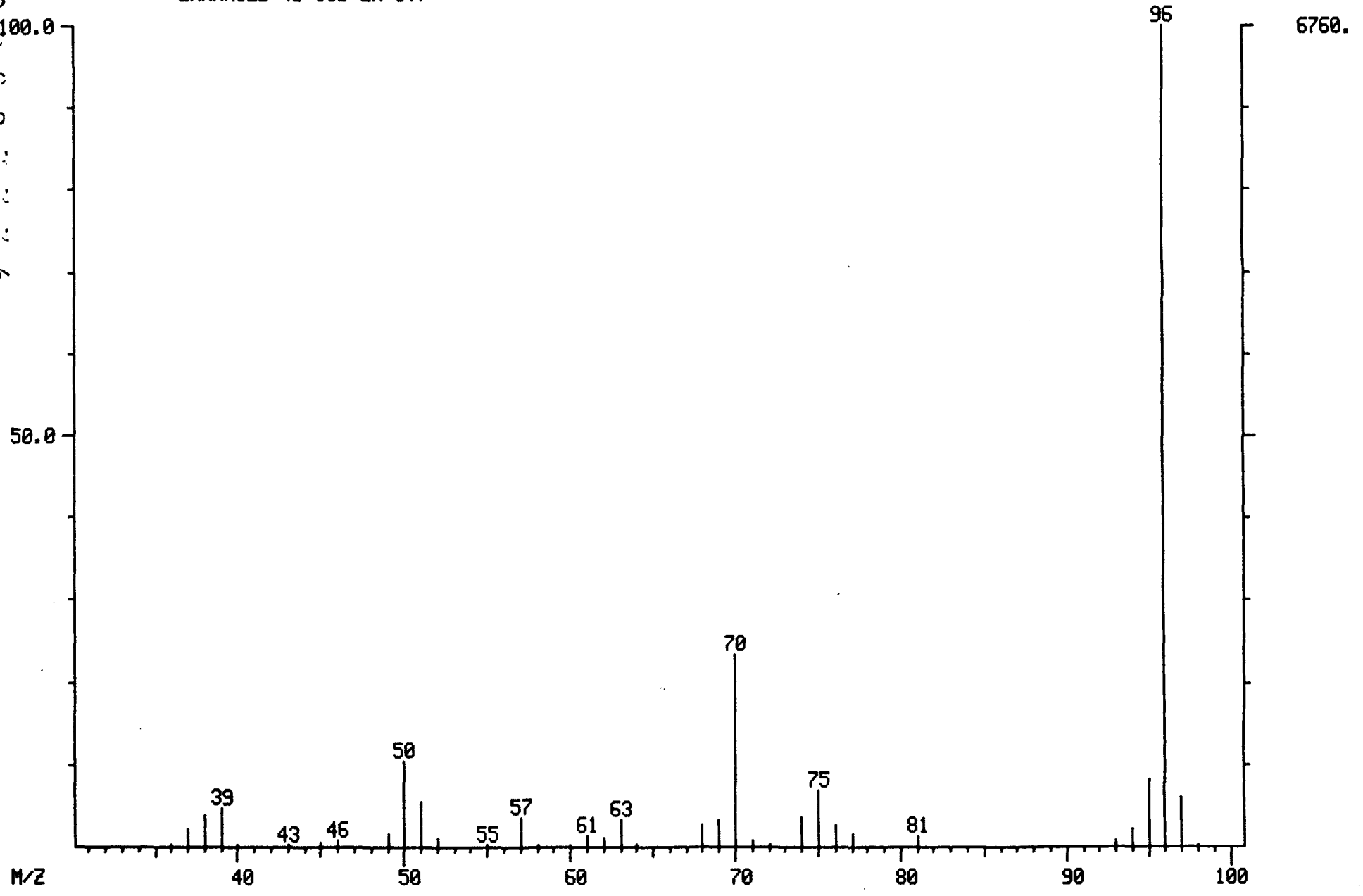


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/03/91 11:19:00 + 6:06
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 #457
CALI: B0403LC04 #3

BASE M/Z: 96
RIC: 14016.

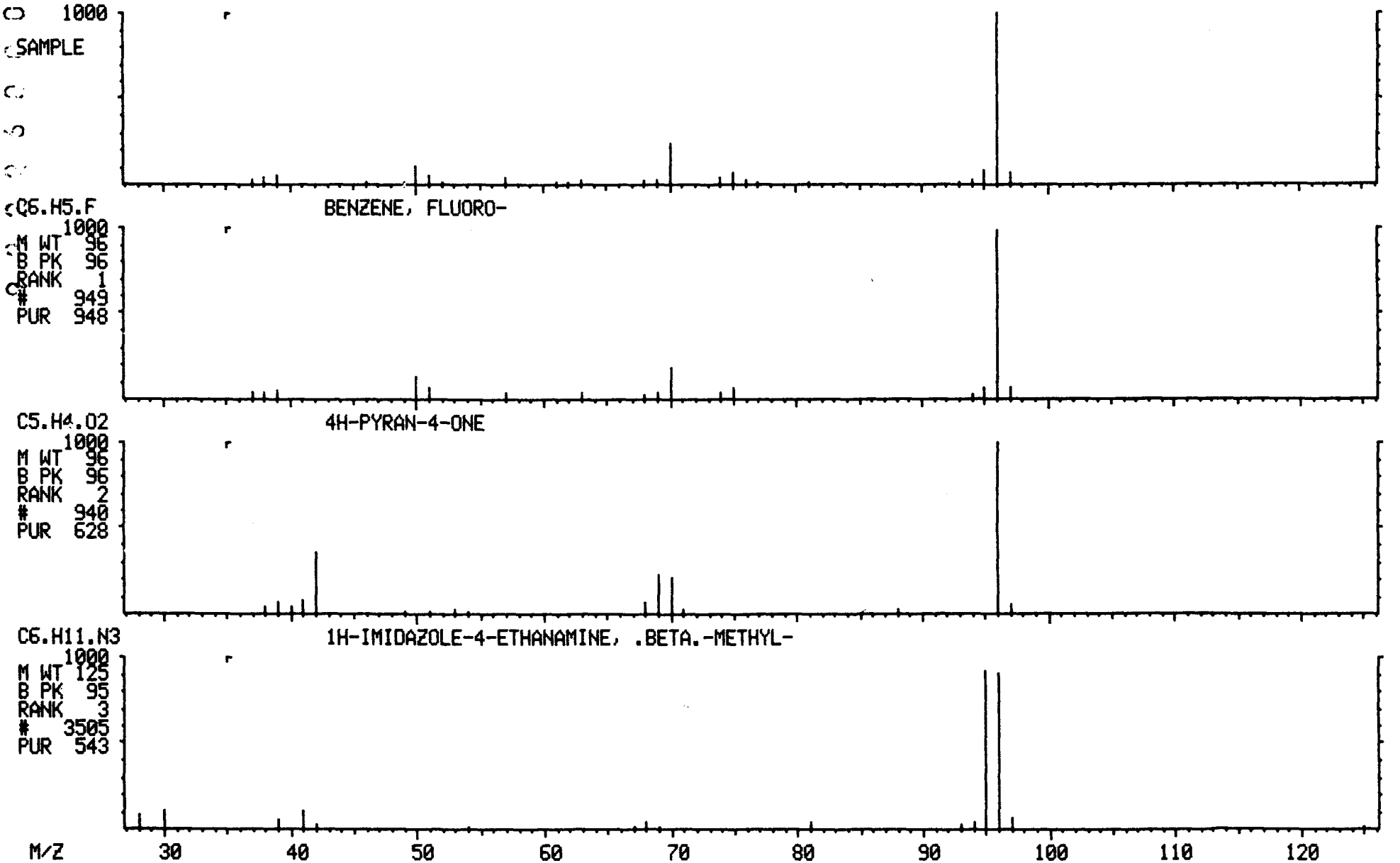


000219

LIBRARY SEARCH
04/03/91 11:19:00 + 6:06
SAMPLE: 90902 (4.00G/10ML+SUR) 100UL+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC04 # 457
CALI: B0403LC04 # 3

BASE M/Z: 96
RIC: 13695.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190903

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0402LC11

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 13 Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	3	J
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X104

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190903

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0402LC11

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 13 Date Analyzed: 04/02/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

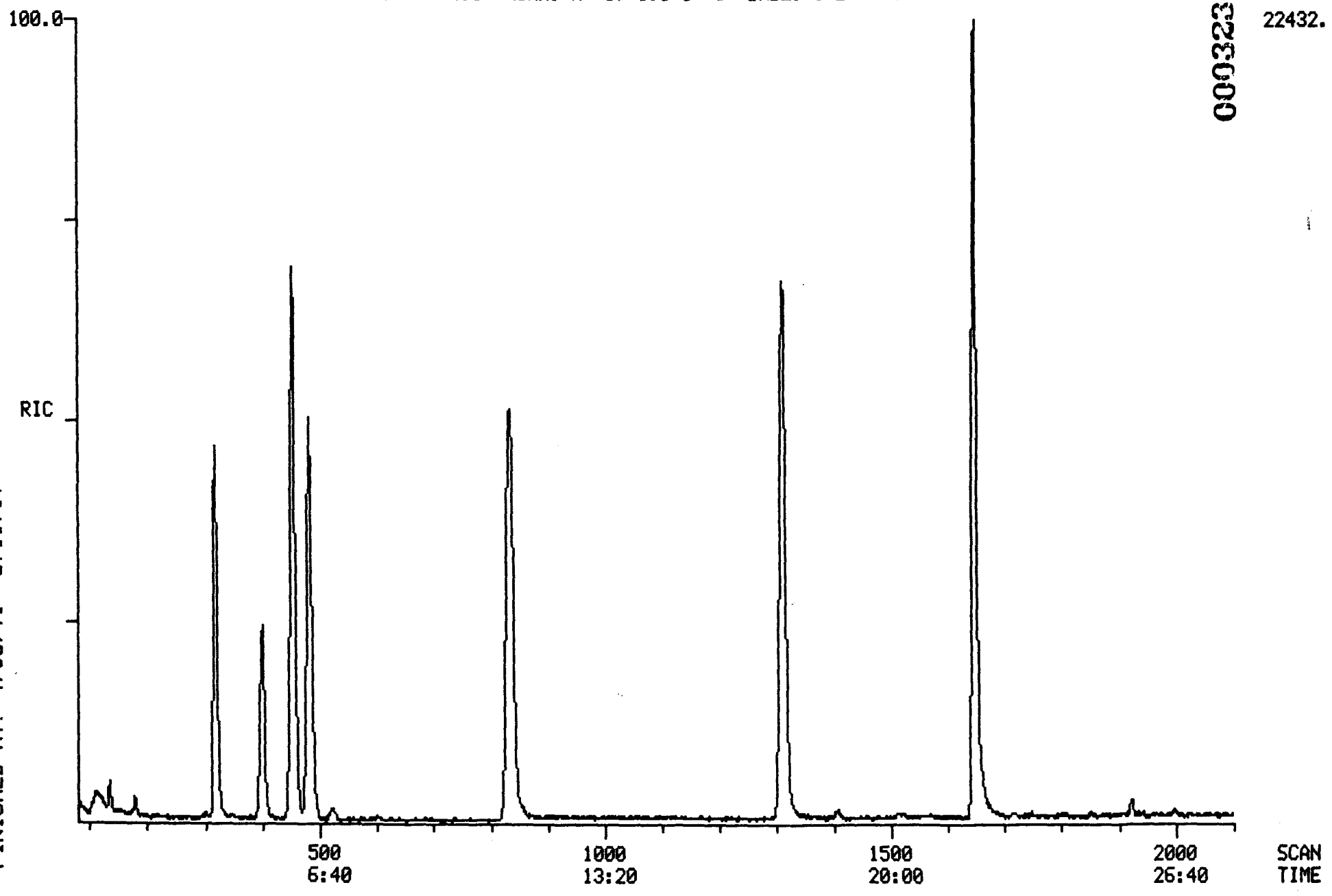
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000322

X104

RIC
04/02/91 16:30:00
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC11 #1 SCANS 80 TO 2100
CALI: B0402LC11 #3



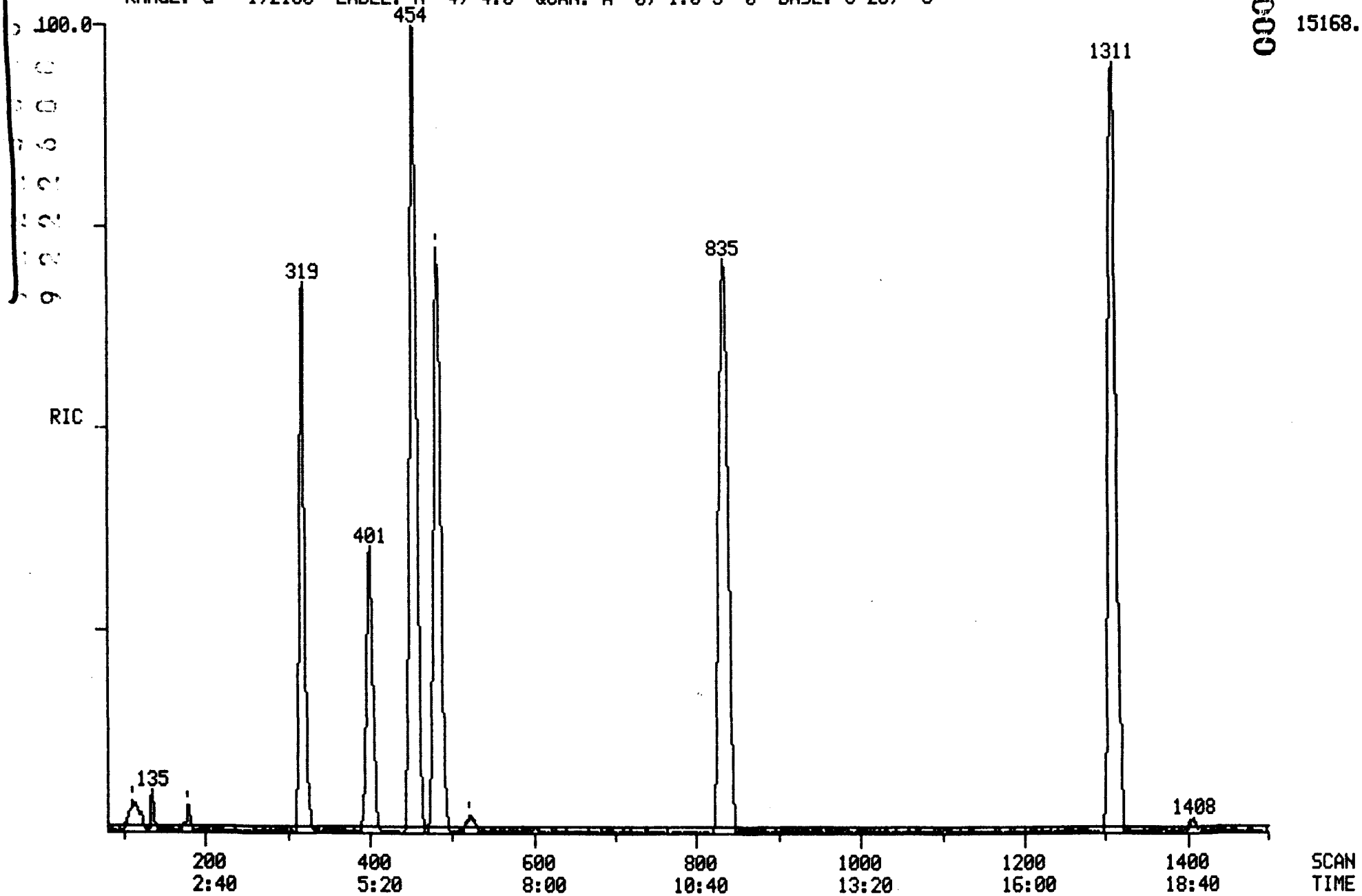
TCA FINISHED, 17 FOUND
FINISHED AT: 4/03/91 8:11:19

000323

RIC
04/02/91 16:30:00
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC11 #1 SCANS 80 TO 1500
CALI: B0402LC11 #3

000324

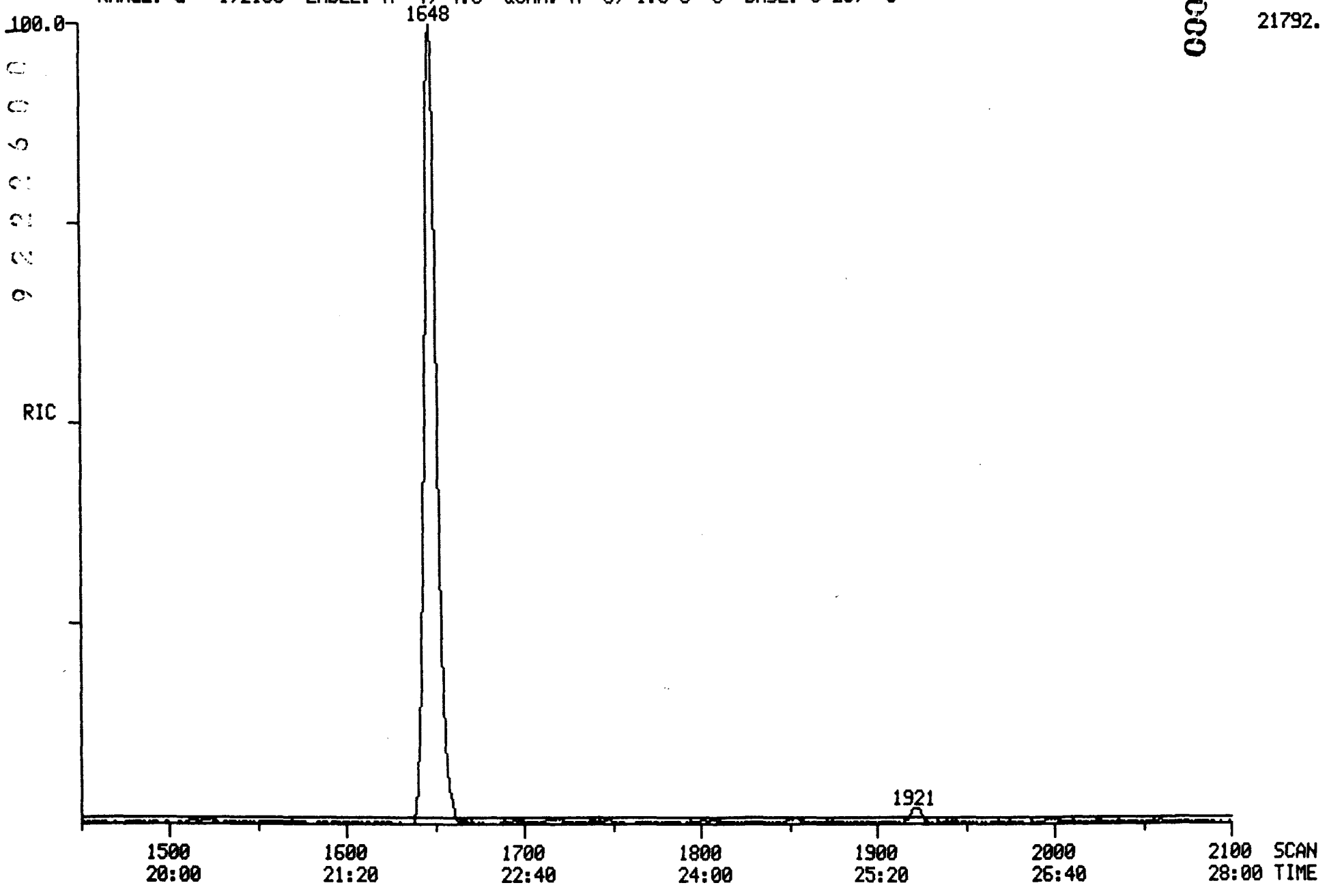


RIC
04/02/91 16:30:00
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC11 #1 SCANS 1450 TO 2100
CALI: B0402LC11 #3

000325

21792.



4/2/91 16:30:38 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 16:30:00 + 0:02
Sample: 90903-R, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0402LC11
Free sectors: 4113
Instrument: 5100
Analyst: LC

Acquiring
Scan: 2 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 30 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	Time (minutes) total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10 Samp int (ms): 0.200 Peak width: 1000.
Frag S/P: 10 Actual: 10 Samp int (ms): 0.200 Inten/ion: 2

Min peak width: 3 Min frag width %: 80 Min area: 50
ADC threshold: 2 Baseline: 0

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

000326

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

4/2/91 16:58:40
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	9.6	1680.0	0.6	24573.	12.	15.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/03/91 9:39:16
DATA FILE: B0402LC11
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	4	1	76	CLSRT1/CLSTC1
1	1	1	0	13	4	1	56	CLSRT2/CLSTC2
1	1	1	0	16	8	4	90	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 16 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT ><							------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	-322	319	319	.	1	970	.	128	319	.	1
2	CS	2	-98	100	.	.	.	.	.	50	.	.	.
3	CS	3	-108	109	.	.	.	.	.	94	.	.	.
4	CS	4	-100	102	.	.	.	.	.	62	.	.	.
5	CS	5	-110	111	.	.	.	.	.	64	.	.	.
6	CS	6	-180	180	179	-1	1	989	.	84	179	.	1
7	CS	7	-155	155	156	1	1	753	.	43	156	.	1
8	CS	8	-158	158	.	.	.	.	.	76	157	.	1
9	CS	9	-146	147	.	.	.	.	.	96	.	.	.
10	CS	10	-234	233	.	.	.	.	.	63	.	.	.
11	CS	12	-339	335	.	.	.	.	.	83	333	.	1
12	CS	13	-351	347	347	.	1	825	.	97	348	1	2
13	CS	14	-117	118	.	.	.	.	.	101	114	.	1
14	CS	15	-198	197	.	.	.	.	.	96	.	.	.
15	CS	16	-294	291	.	.	.	.	.	96	.	.	.
16	CS	17	-492	483	483	.	1	996	.	114	482	-1	1
17	CS	18	-419	413	.	.	.	.	.	62	.	.	.
18	CS	19	-305	302	302	.	1	882	.	72	301	-1	1
19	CS	20	-372	367	.	.	.	.	.	117	.	.	.
20	CS	21	-244	243	.	.	.	.	.	43	248	.	1
21	CS	22	-662	649	.	.	.	.	.	83	.	.	.
22	CS	23	-582	571	.	.	.	.	.	63	.	.	.
23	CS	24	-783	766	.	.	.	.	.	75	.	.	.
24	CS	25	-531	521	522	1	1	964	.	130	523	1	1
25	CS	27	-406	400	.	.	.	.	.	78	.	.	.
26	CS	28	-769	753	.	.	.	.	.	106	.	.	.
27	CS	29	-407	401	401	.	1	970	.	65	401	.	1
28	CS	43	-1563	1524	.	.	.	.	.	173	.	.	.
29	CS	30	-1315	1311	1311	.	1	996	.	117	1311	.	1
30	CS	26	-1140	1135	.	.	.	.	.	129	.	.	.
31	CS	31	-1022	1016	.	.	.	.	.	97	.	.	.
32	CS	32	-970	964	.	.	.	.	.	75	.	.	.
33	CS	33	-1147	1142	.	.	.	.	.	43	1142	.	1
34	CS	34	-858	851	.	.	.	.	.	43	.	.	.
35	CS	35	-1022	1016	.	.	.	.	.	164	.	.	.
36	CS	36	-1726	1724	1725	1	1	800	.	83	1720	-5	2
37	CS	37	-858	851	851	.	1	941	.	91	853	2	1
38	CS	38	-1322	1318	.	.	.	.	.	112	1318	.	1
39	CS	39	-1374	1370	.	.	.	.	.	106	.	.	.
40	CS	40	-1527	1524	1524	.	2	922	.	104	1521	-3	1
41	CS	41	-1410	1406	1407	1	1	989	.	106	1408	1	1
42	CS	42	-1516	1513	1512	-1	1	901	.	106	1511	-1	2
43	CS	44	-1652	1650	1648	-2	1	992	.	95	1648	.	1
44	CS	45	-842	835	835	.	2	993	.	98	833	-2	1

Quantitation Report File: B0402LC11

Data: B0402LC11.TI
04/02/91 16:30:00
Sample: 90903-R, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLORDETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	319	4:15	1	1.000	A BB	8429.	50.000 UG/G	11.21
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	179	2:23	1	0.561	A BB	429.	~~1.668~~ UG/G	0.37
7	43	156	2:05	1	0.489	A BB	108.	~~1.123~~ UG/G	0.25
8	76	157	2:06	1	0.492	A BB	20.	~~0.025~~ UG/G	0.01
9	NOT FOUND								
10	NOT FOUND								
11	83	333	4:26	1	1.044	A BB	327.	~~0.638~~ UG/G	0.14
12	97	348	4:38	1	1.091	A*BB	119.	0.348 UG/G	0.08
13	101	114	1:31	1	0.357	A BB	19.	~~0.186~~ UG/G	0.04
14	NOT FOUND								
15	NOT FOUND								
16	114	482	6:26	16	1.000	A BB	42167.	50.000 UG/G	11.21
17	NOT FOUND								
18	72	301	4:01	16	0.624	A BB	88.	2.199 UG/G	0.49
19	NOT FOUND								
20	43	248	3:18	16	0.515	A BB	87.	~~0.446~~ UG/G	0.10
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	130	523	6:58	16	1.085	A BB	572.	~~1.789~~ UG/G	0.40
25	NOT FOUND								
26	NOT FOUND								
27	65	401	5:21	16	0.832	A BB	12955.	98.995 %	22.20
28	NOT FOUND								
29	117	1311	17:29	29	1.000	A BB	48783.	50.000 UG/G	11.21
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	1142	15:14	29	0.871	A BB	181.	~~0.460~~ UG/G	0.10
34	NOT FOUND								
35	NOT FOUND								
36	83	1720	22:56	29	1.312	A*BB	58.	~~0.090~~ UG/G	0.02
37	91	853	11:22	29	0.651	A BB	671.	~~0.533~~ UG/G	0.12
38	112	1318	17:34	29	1.005	A BB	346.	0.377 UG/G	0.08
39	NOT FOUND								
40	104	1521	20:17	29	1.160	A BB	382.	~~0.386~~ UG/G	0.09
41	106	1408	18:46	29	1.074	A BB	444.	~~0.759~~ UG/G	0.17
42	106	1511	20:09	29	1.153	A*BB	205.	~~0.341~~ UG/G	0.08
43	95	1648	21:58	29	1.257	A BB	47389.	98.227 %	22.03
44	98	833	11:06	29	0.635	A BB	48835.	87.445 %	19.61

Quantitation Report File: B0402LC11A

Data: B0402LC11.TI
04/02/91 16:30:00
Sample: 90903-R, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

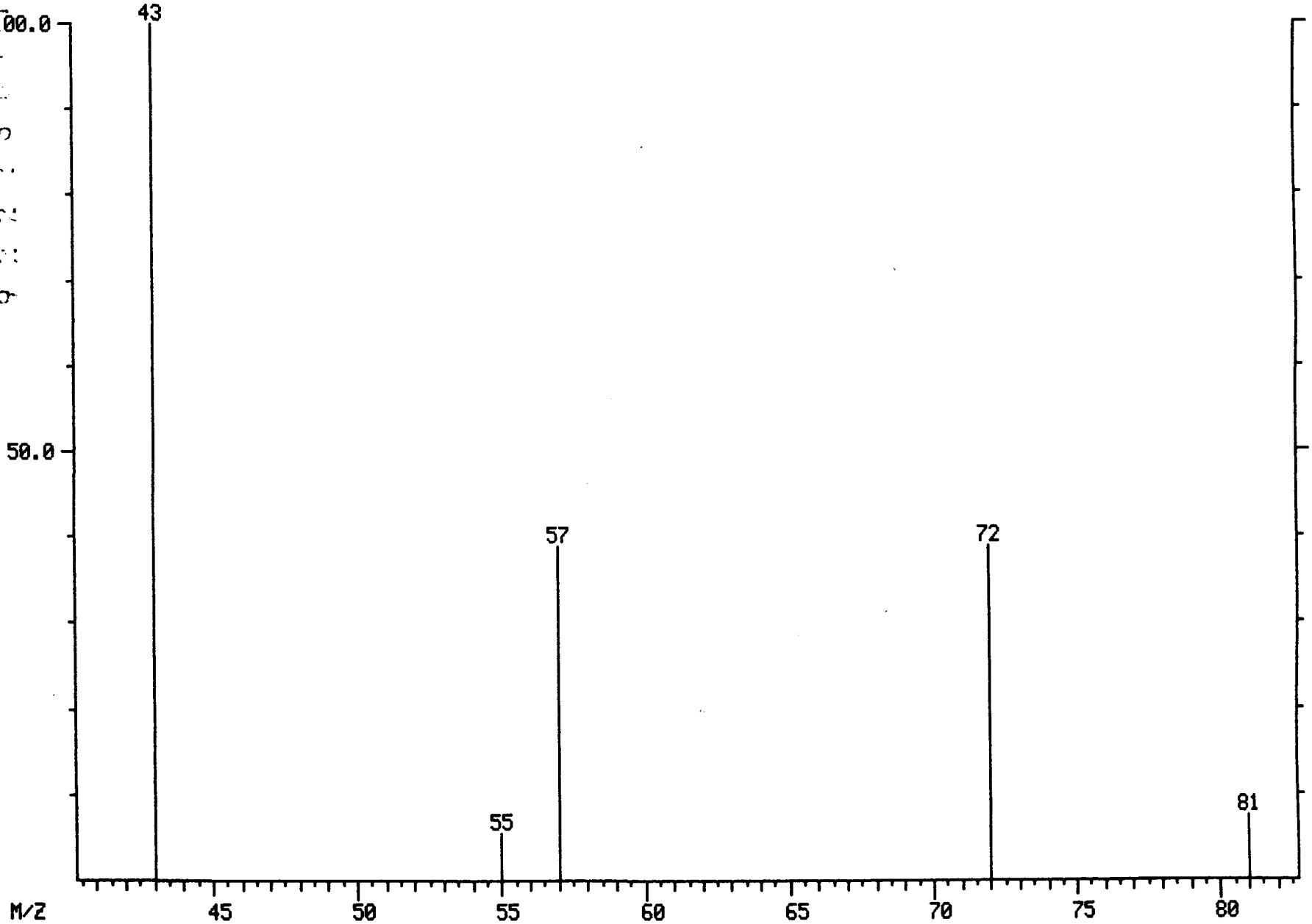
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	454	6:03	1	1.000	A BB	142300.	66.200	*100.

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/02/91 16:30:00 + 4:01
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 #301
CALI: B0402LC11 #3

BASE M/Z: 43
RIC: 103.



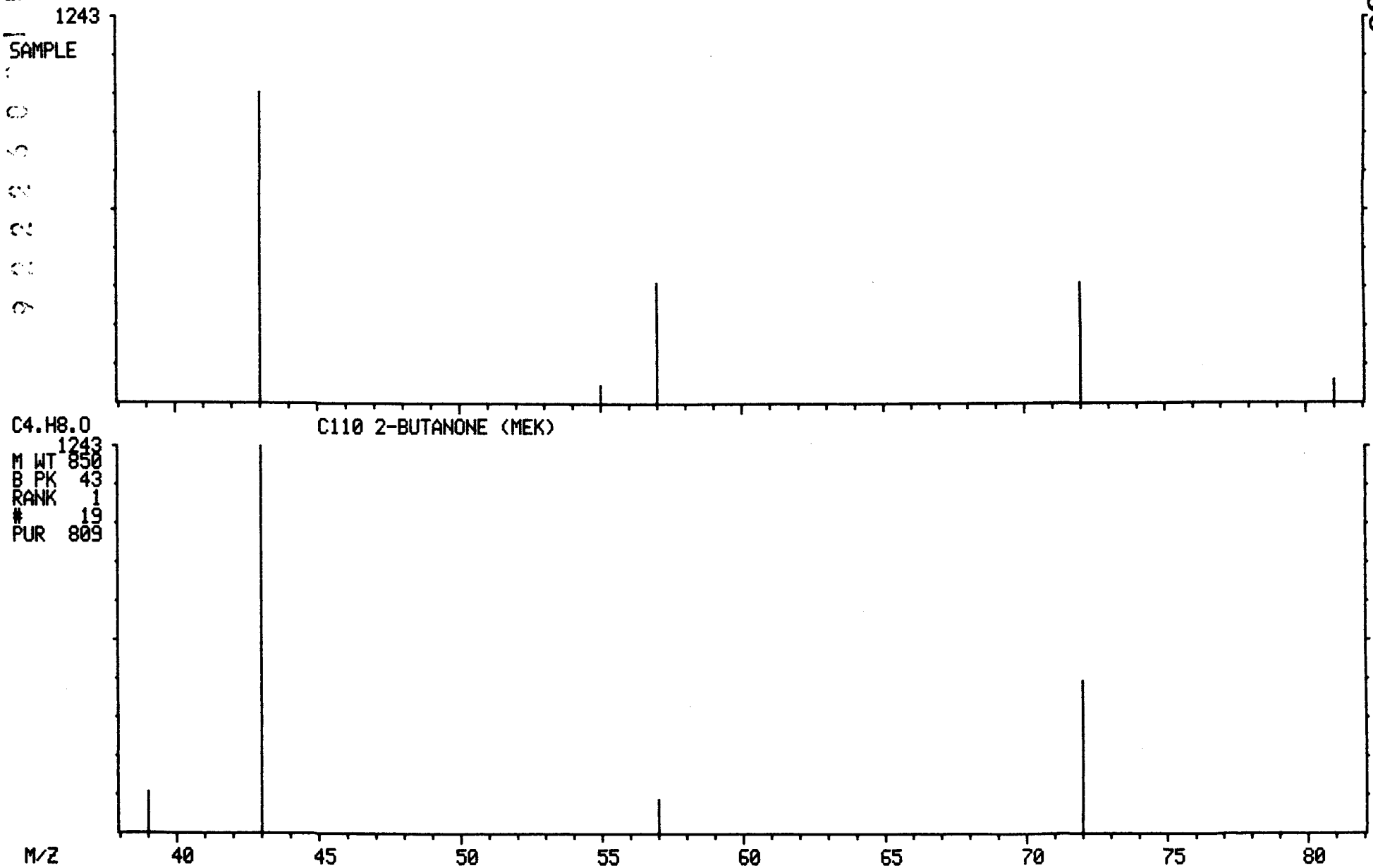
54.

003333

LIBRARY SEARCH
04/02/91 16:30:00 + 4:01
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 # 301
CALI: B0402LC11 # 3

BASE M/Z: 43
RIC: 102.



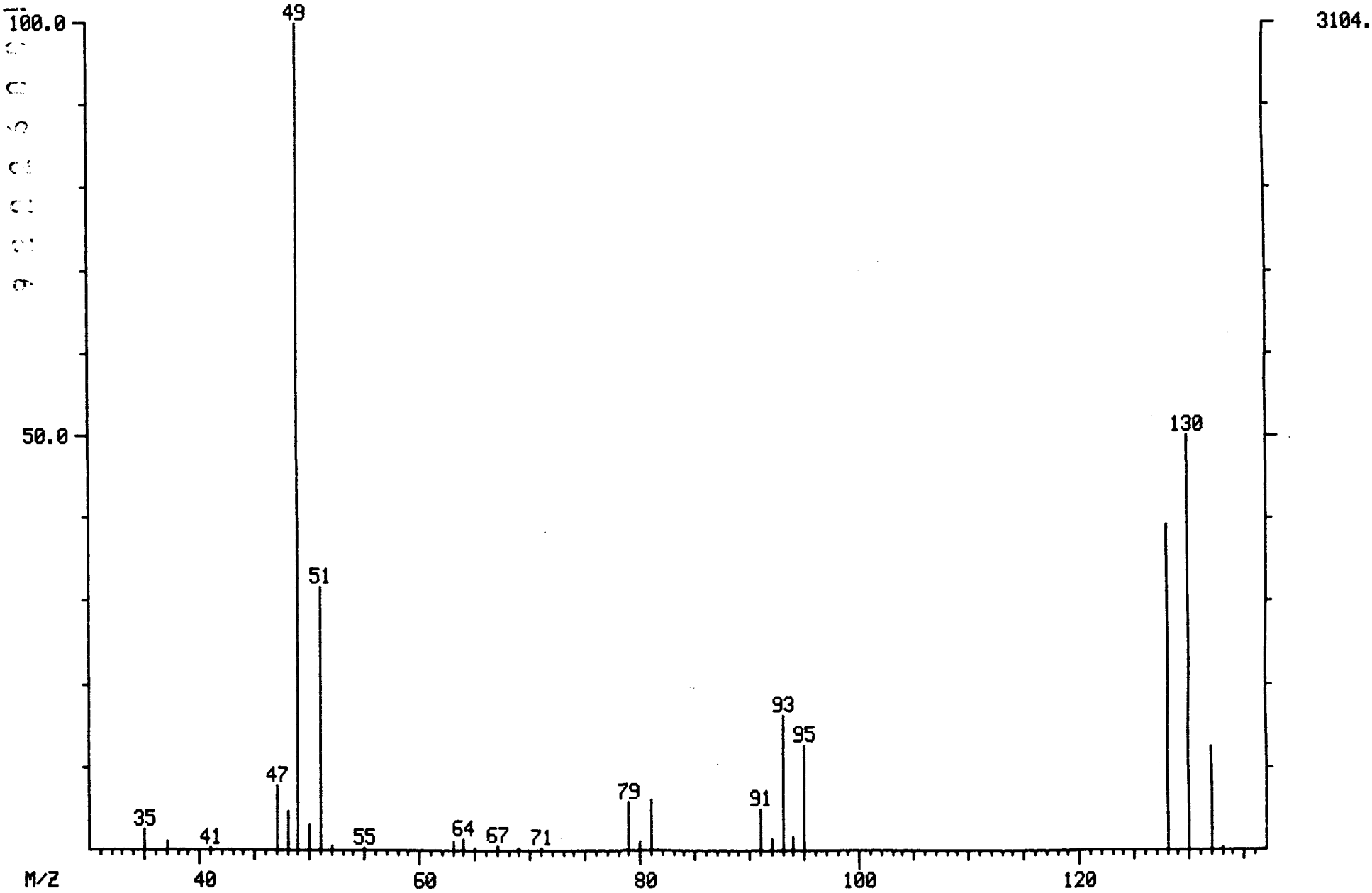
000334

MASS SPECTRUM
04/02/91 16:30:00 + 4:15
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 #319
CALI: B0402LC11 #3

BASE M/Z: 49
RIC: 9552.

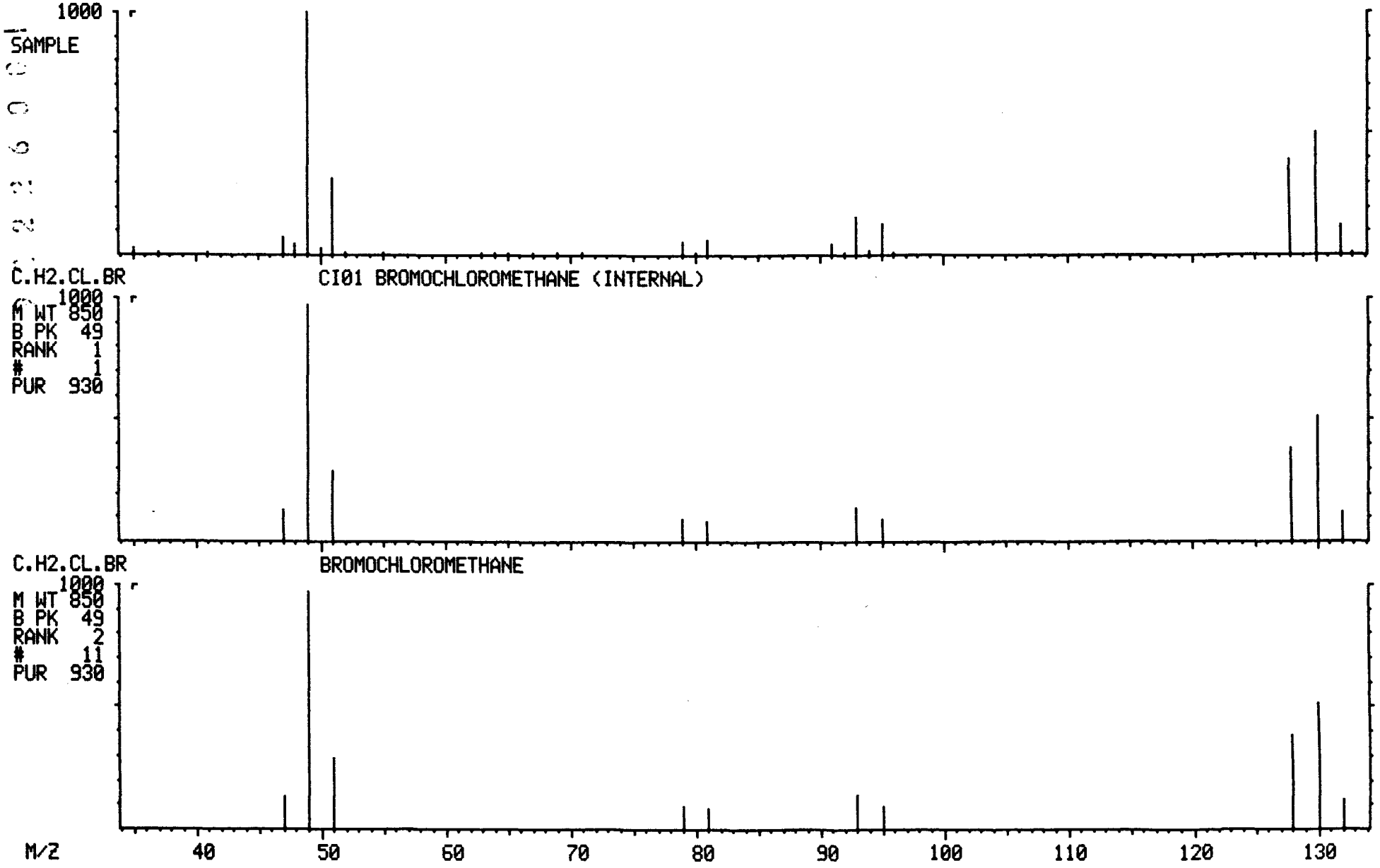
003335



LIBRARY SEARCH
04/02/91 16:30:00 + 4:15
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 # 319
CALI: B0402LC11 # 3

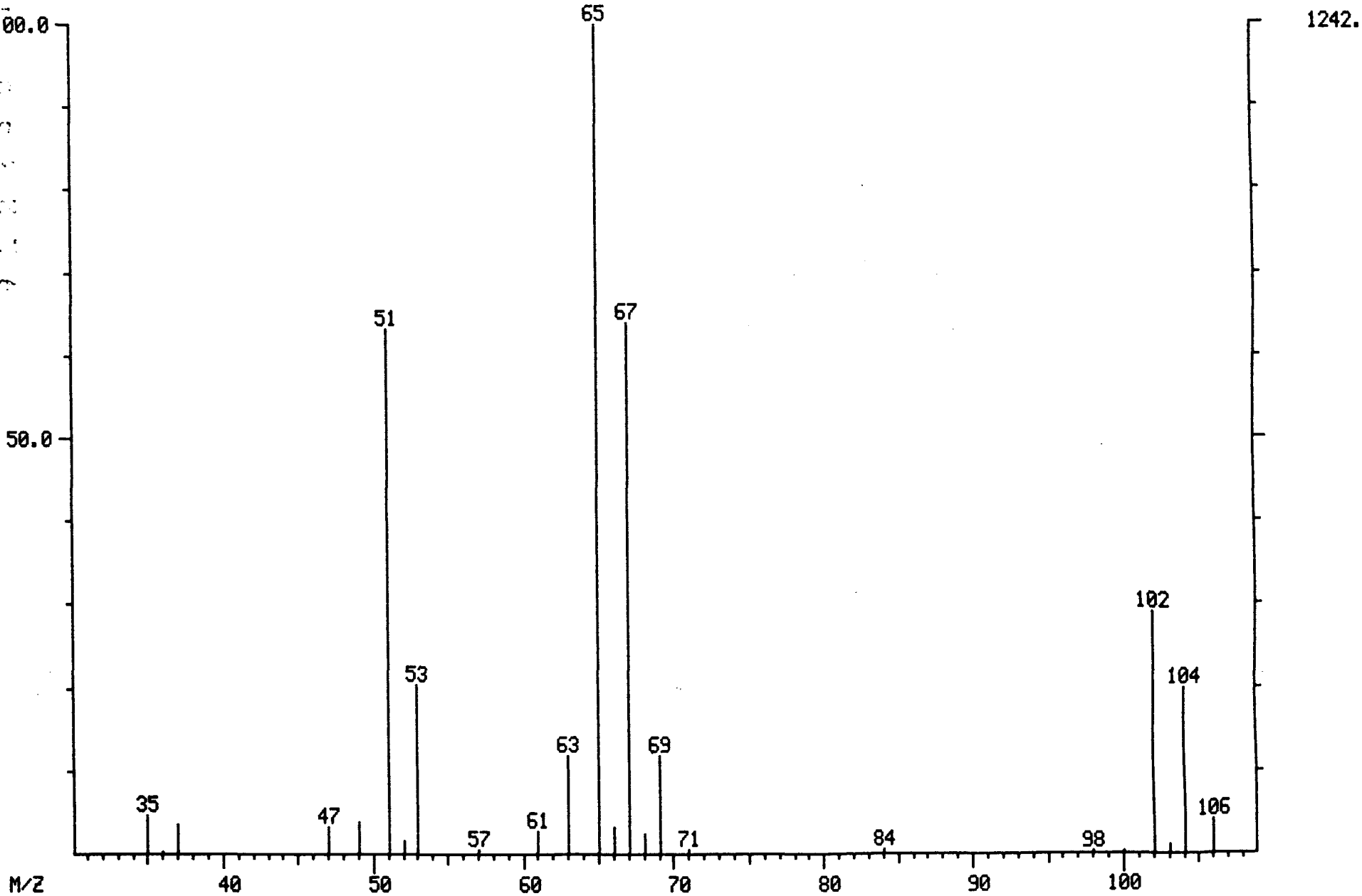
BASE M/Z: 49
RIC: 9551.



MASS SPECTRUM
04/02/91 16:30:00 + 5:21
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 #401
CALI: B0402LC11 #3

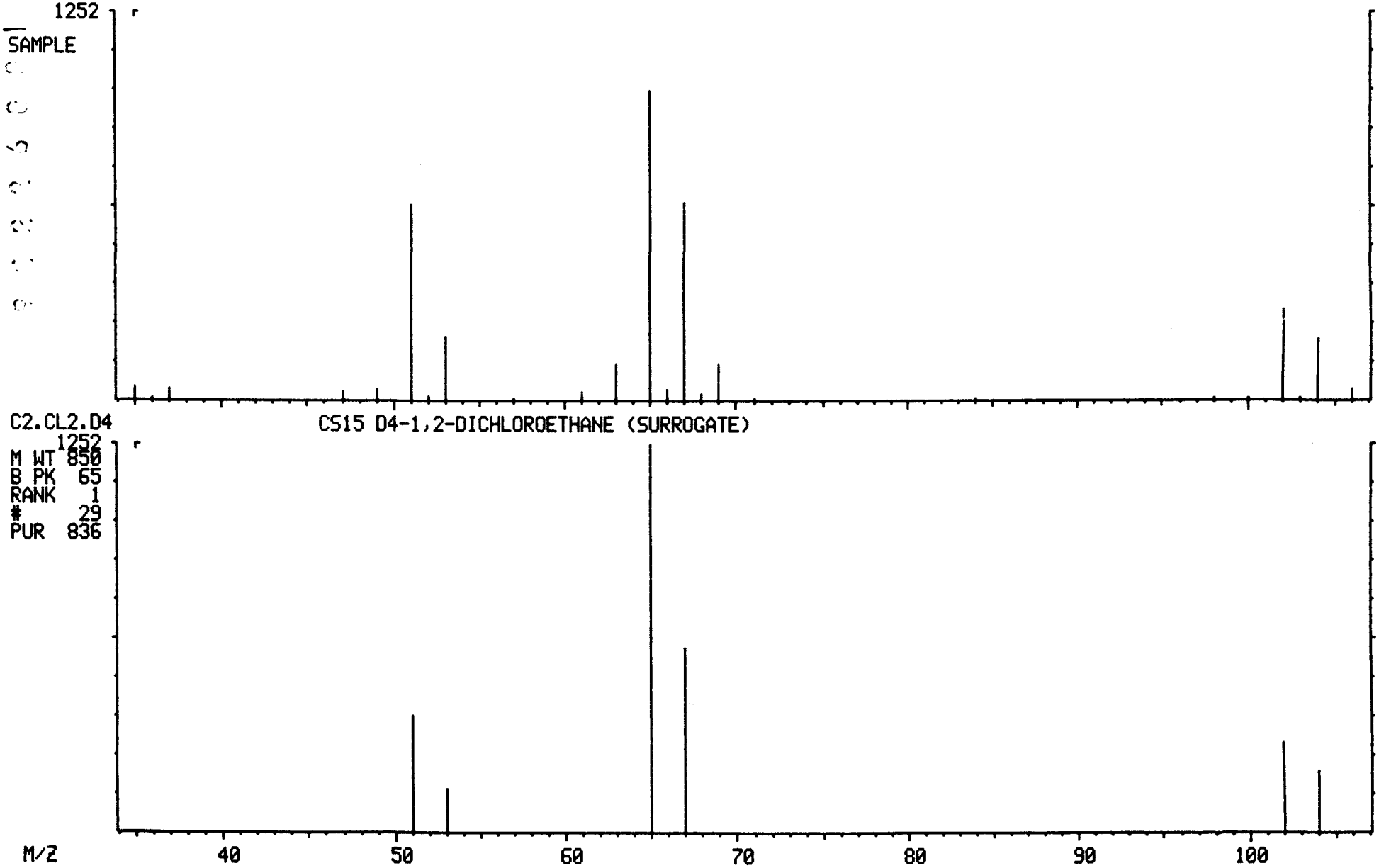
BASE M/Z: 65
RIC: 4408.



LIBRARY SEARCH
04/02/91 16:30:00 + 5:21
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 # 401
CALI: B0402LC11 # 3

BASE M/Z: 65
RIC: 4407.

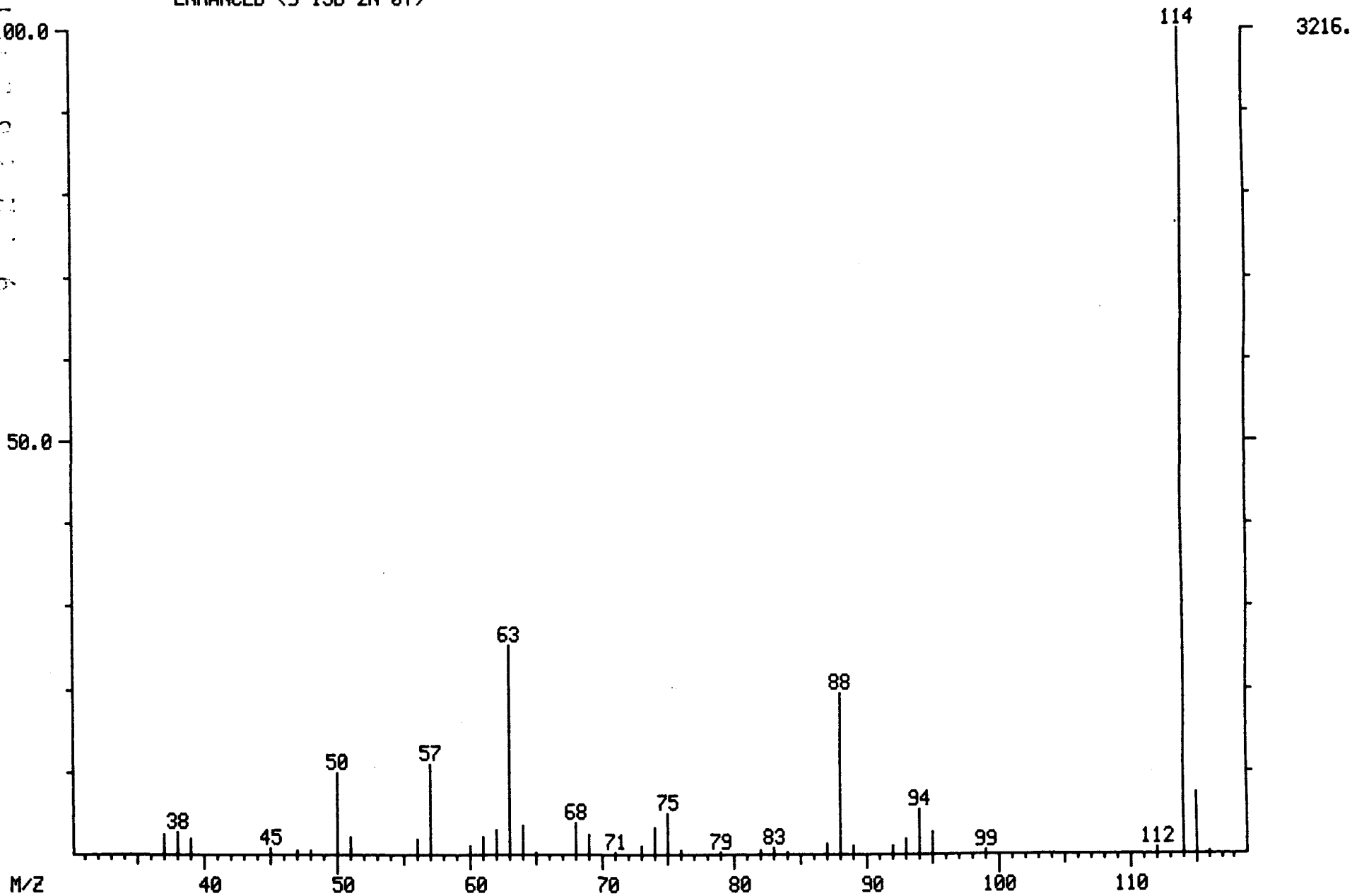


MASS SPECTRUM
04/02/91 16:30:00 + 6:26
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 #482
CALI: B0402LC11 #3

BASE M/Z: 114
RIC: 7416.

000339

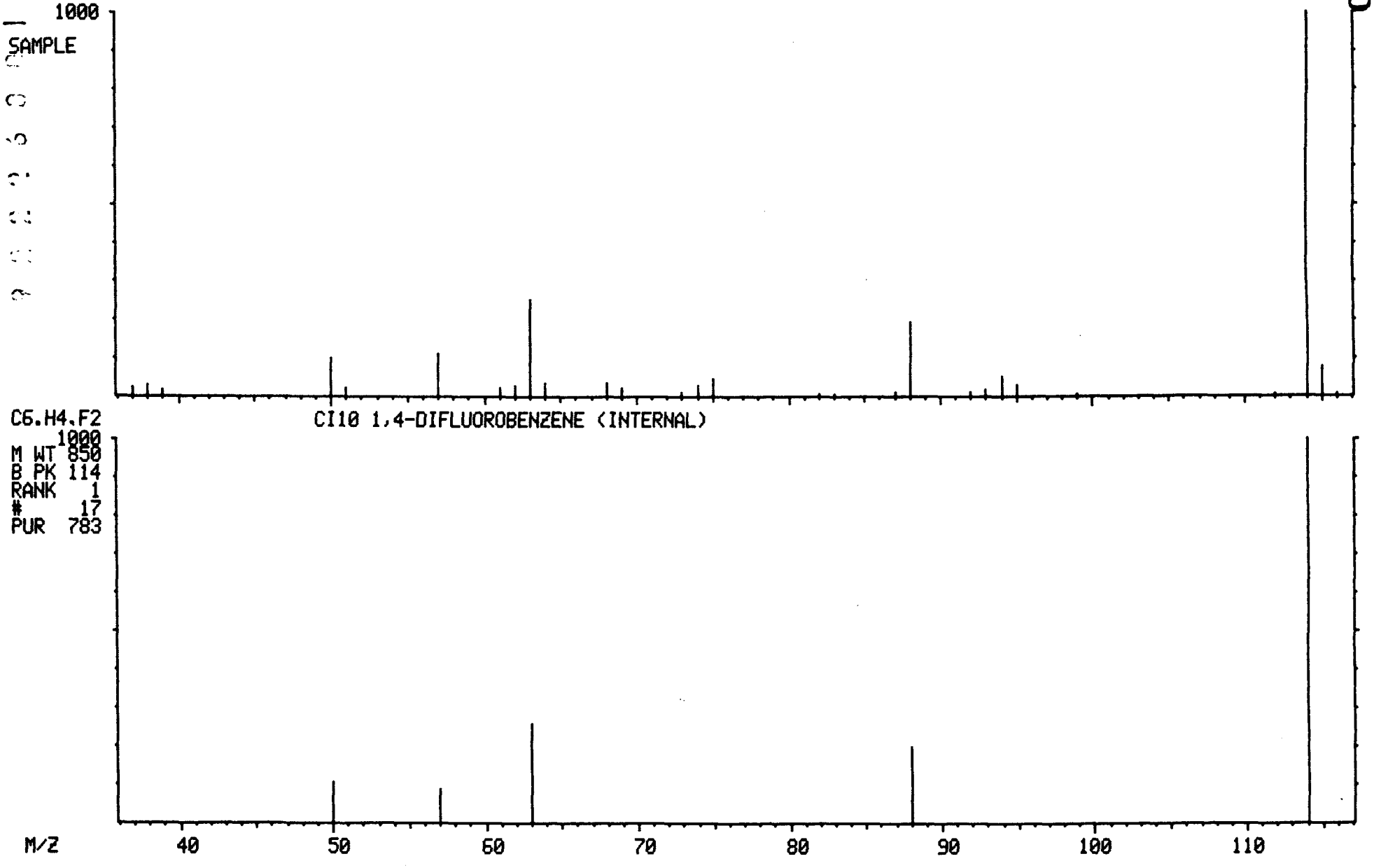


LIBRARY SEARCH
04/02/91 16:30:00 + 6:26
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 # 482
CALI: B0402LC11 # 3

BASE M/Z: 114
RIC: 7183.

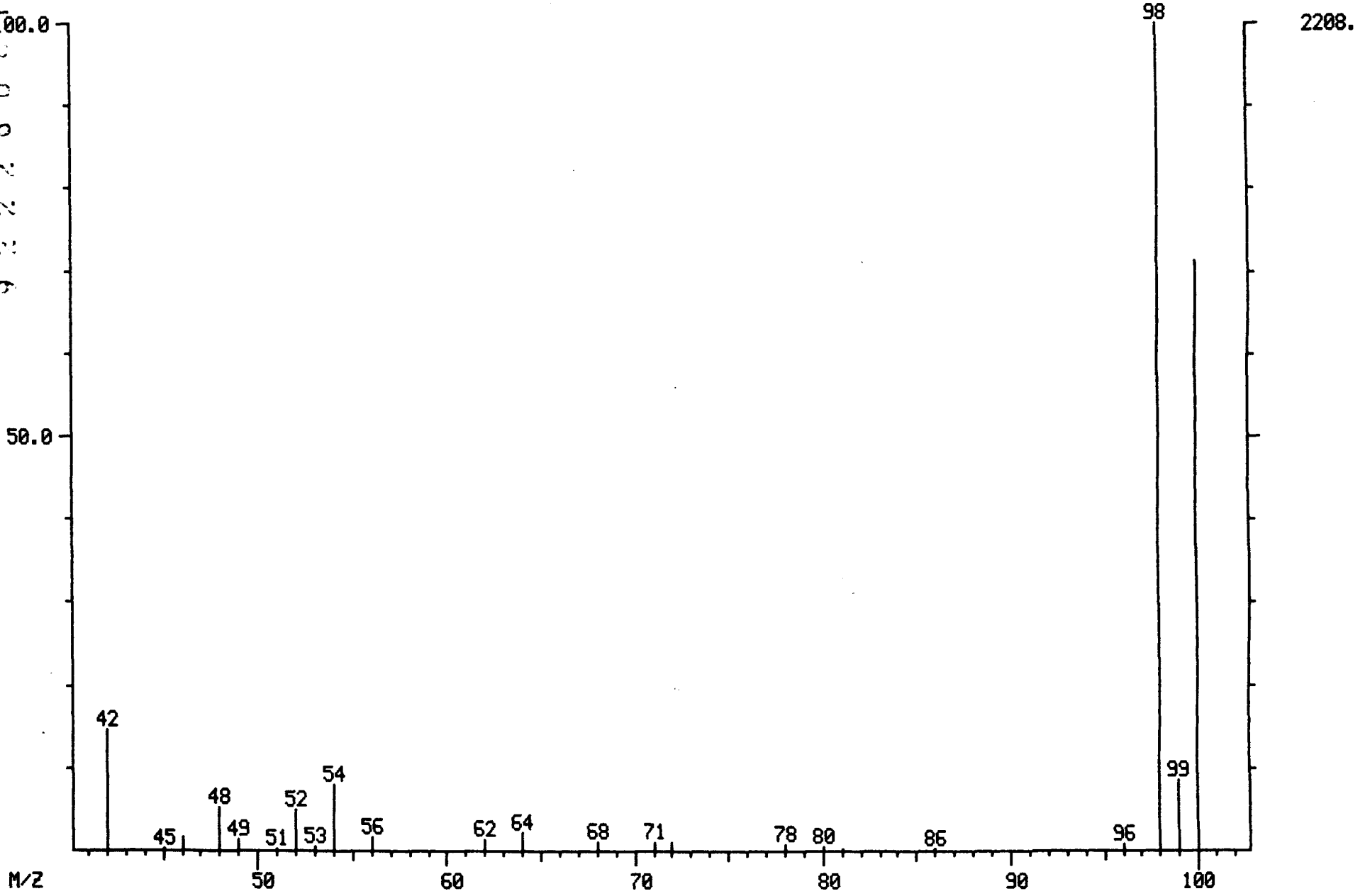
000340



MASS SPECTRUM
04/02/91 16:30:00 + 11:06
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 #833
CALI: B0402LC11 #3

BASE M/Z: 98
RIC: 5064.



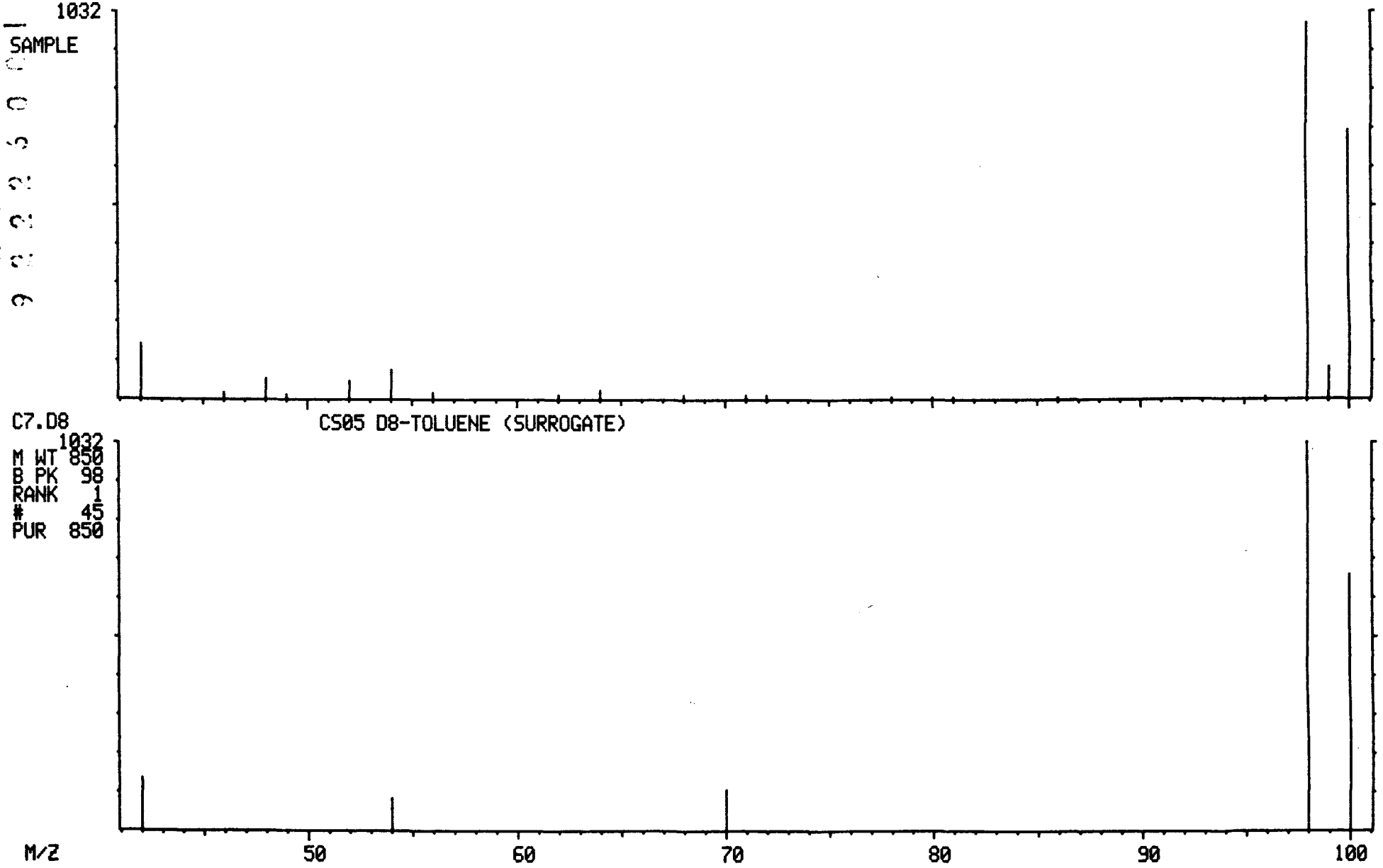
9222600017

001341

LIBRARY SEARCH
04/02/91 16:30:00 + 11:06
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 # 833
CALI: B0402LC11 # 3

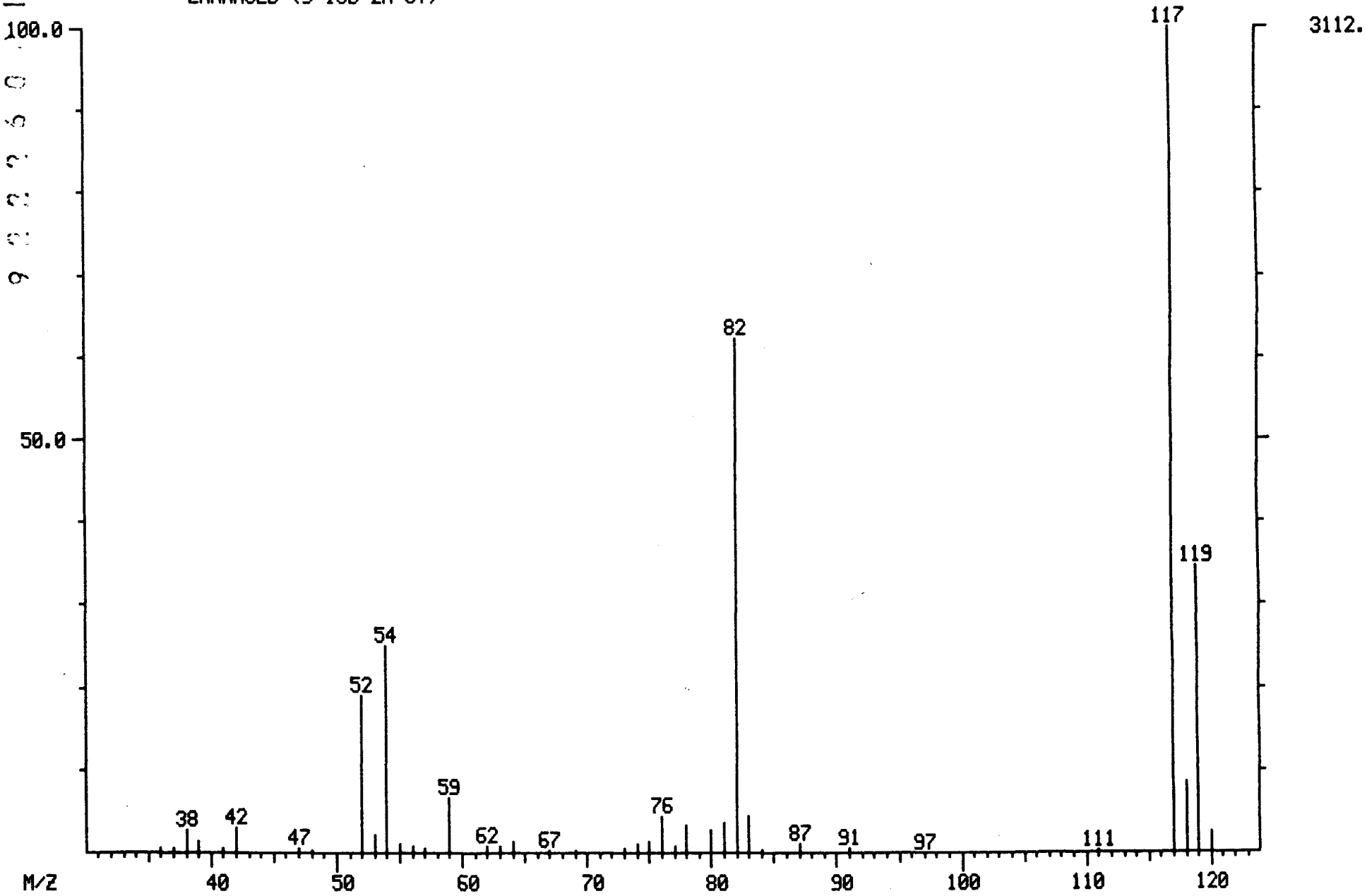
BASE M/Z: 98
RIC: 5031.



MASS SPECTRUM
04/02/91 16:30:00 + 17:29
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 #1311
CALI: B0402LC11 #3

BASE M/Z: 117
RIC: 9376.



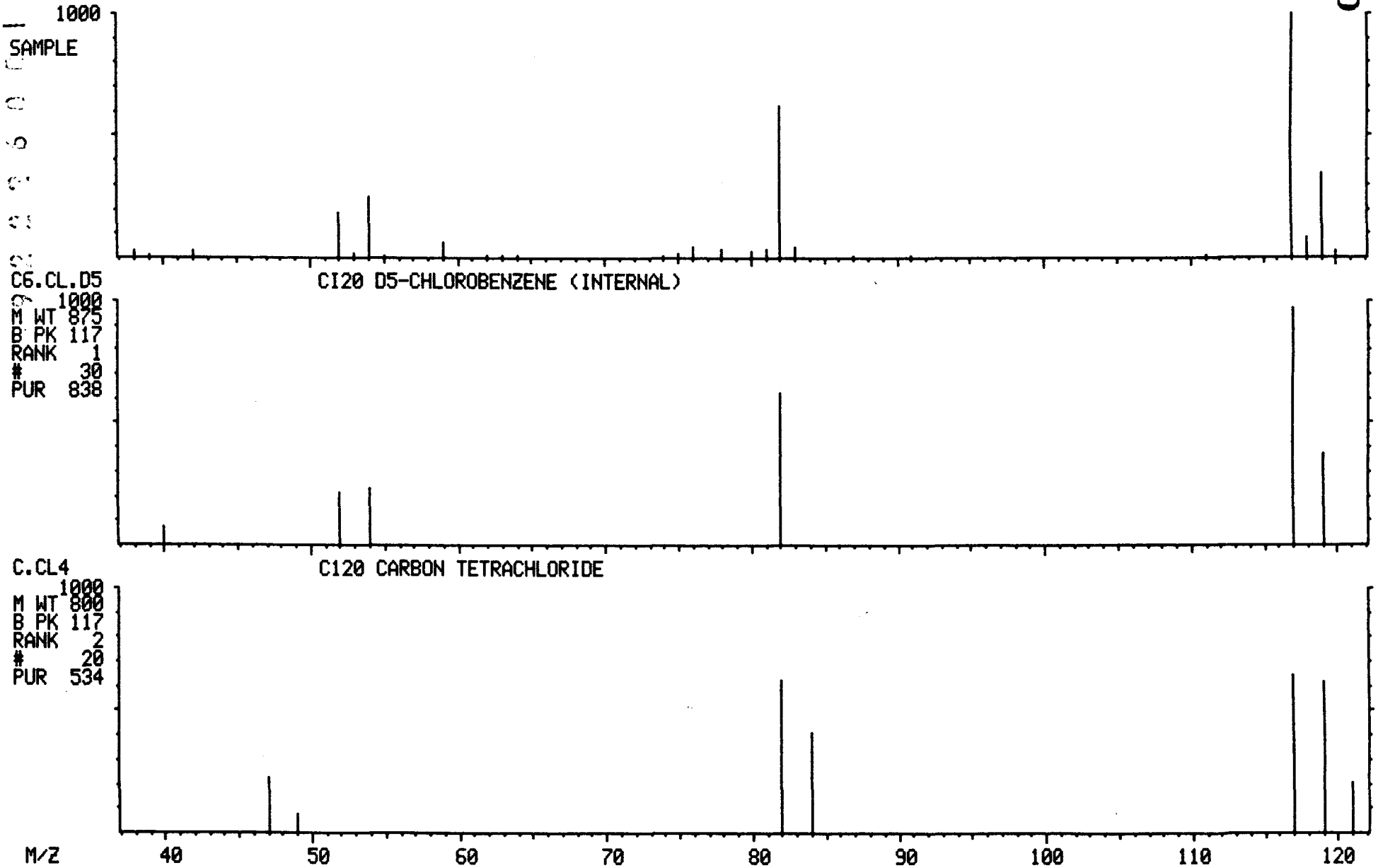
000343

LIBRARY SEARCH
04/02/91 16:30:00 + 17:29
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 #1311
CALI: B0402LC11 # 3

BASE M/Z: 117
RIC: 9183.

000344

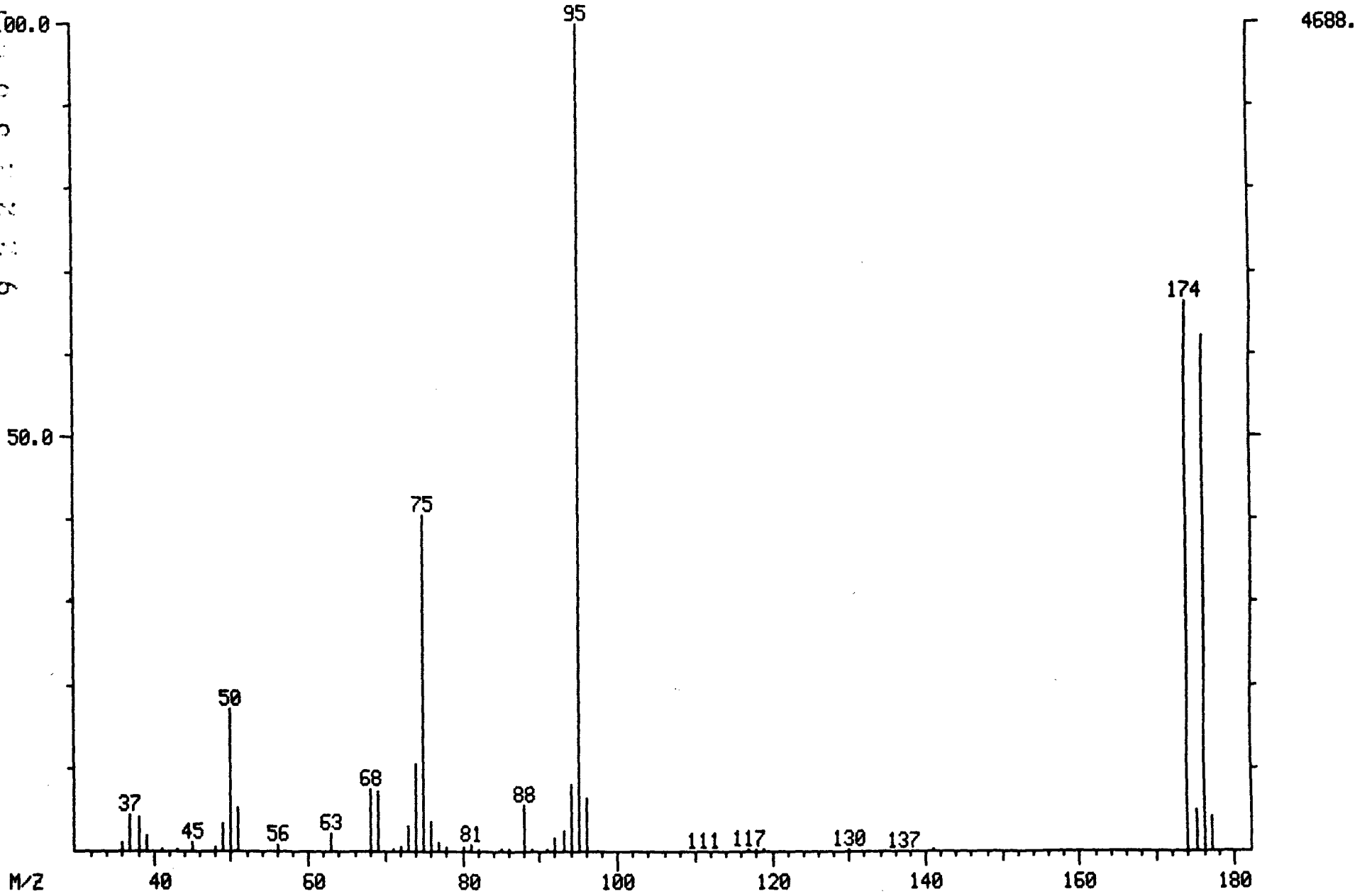


MASS SPECTRUM
04/02/91 16:30:00 + 21:58
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 #1648
CALI: B0402LC11 #3

BASE M/Z: 95
RIC: 17984.

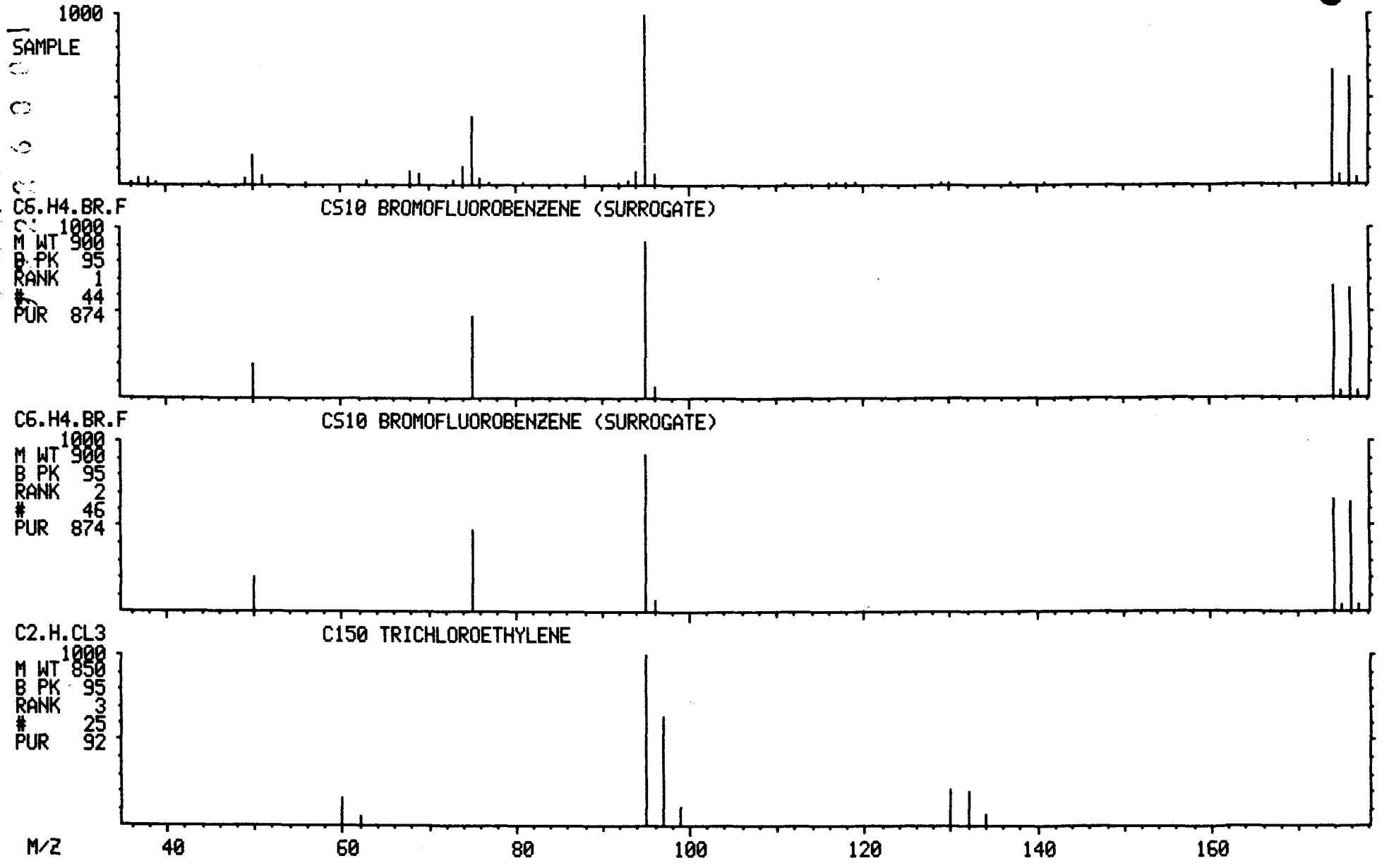
000345



LIBRARY SEARCH
04/02/91 16:30:00 + 21:58
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 #1648
CALI: B0402LC11 # 3

BASE M/Z: 95
RIC: 17759.

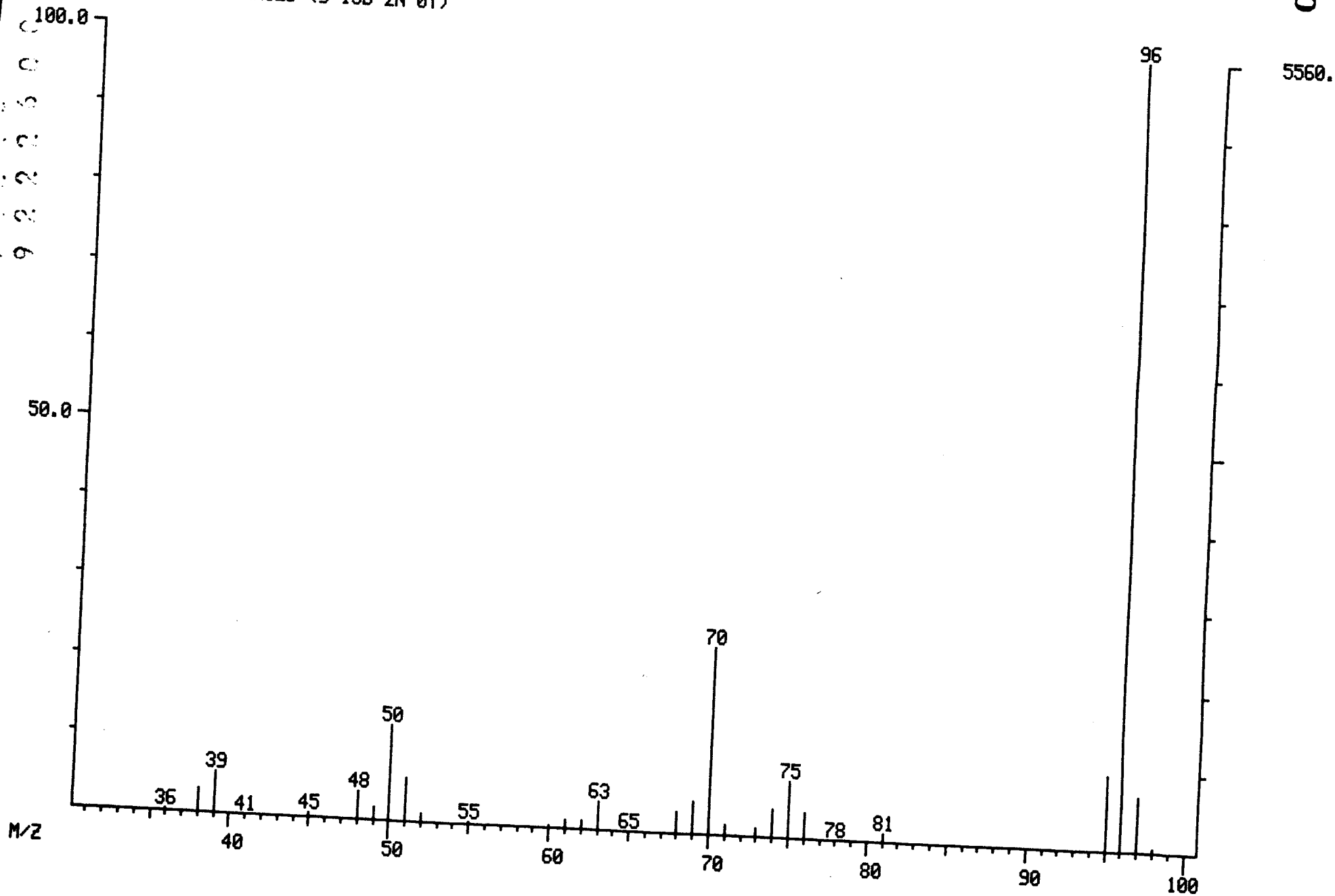


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/02/91 16:30:00 + 6:03
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 #454
CALI: B0402LC11 #3

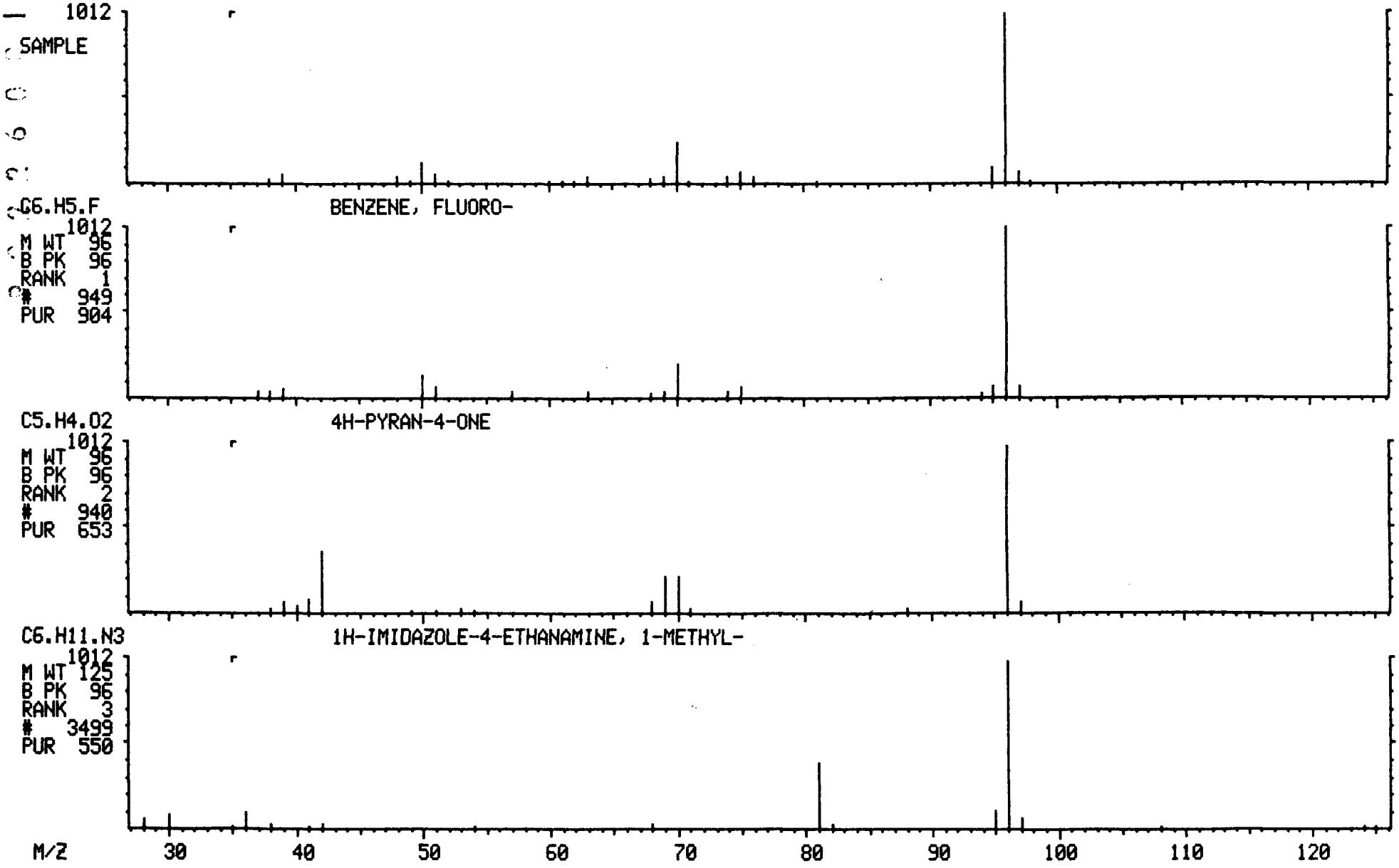
BASE M/Z: 96
RIC: 11456.



LIBRARY SEARCH
04/02/91 16:30:00 + 6:03
SAMPLE: 90903-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC11 # 454
CALI: B0402LC11 # 3

BASE M/Z: 96
RIC: 11295.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190904

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0401LC07

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 36 Date Analyzed: 04/01/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16	U
74-83-9	Bromomethane	16	U
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	8	U
67-64-1	Acetone	130	
75-15-0	Carbon Disulfide	8	U
75-35-4	1,1-Dichloroethene	8	U
75-34-3	1,1-Dichloroethane	8	U
540-59-0	1,2-Dichloroethene (total)	8	U
67-66-3	Chloroform	8	U
107-06-2	1,2-Dichloroethane	8	U
78-93-3	2-Butanone	63	
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
108-05-4	Vinyl Acetate	16	U
75-27-4	Bromodichloromethane	8	U
78-87-5	1,2-Dichloropropane	8	U
10061-01-5	cis-1,3-Dichloropropene	8	U
79-01-6	Trichloroethene	8	U
124-48-1	Dibromochloromethane	8	U
79-00-5	1,1,2-Trichloroethane	8	U
71-43-2	Benzene	8	U
10061-02-6	trans-1,3-Dichloropropene	8	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-Pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U
108-88-3	Toluene	8	U
108-90-7	Chlorobenzene	6	J
100-41-4	Ethylbenzene	8	U
100-42-5	Styrene	8	U
1330-20-7	Xylene (total)	8	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X106

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190904

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0401LC07

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 36 Date Analyzed: 04/01/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000351

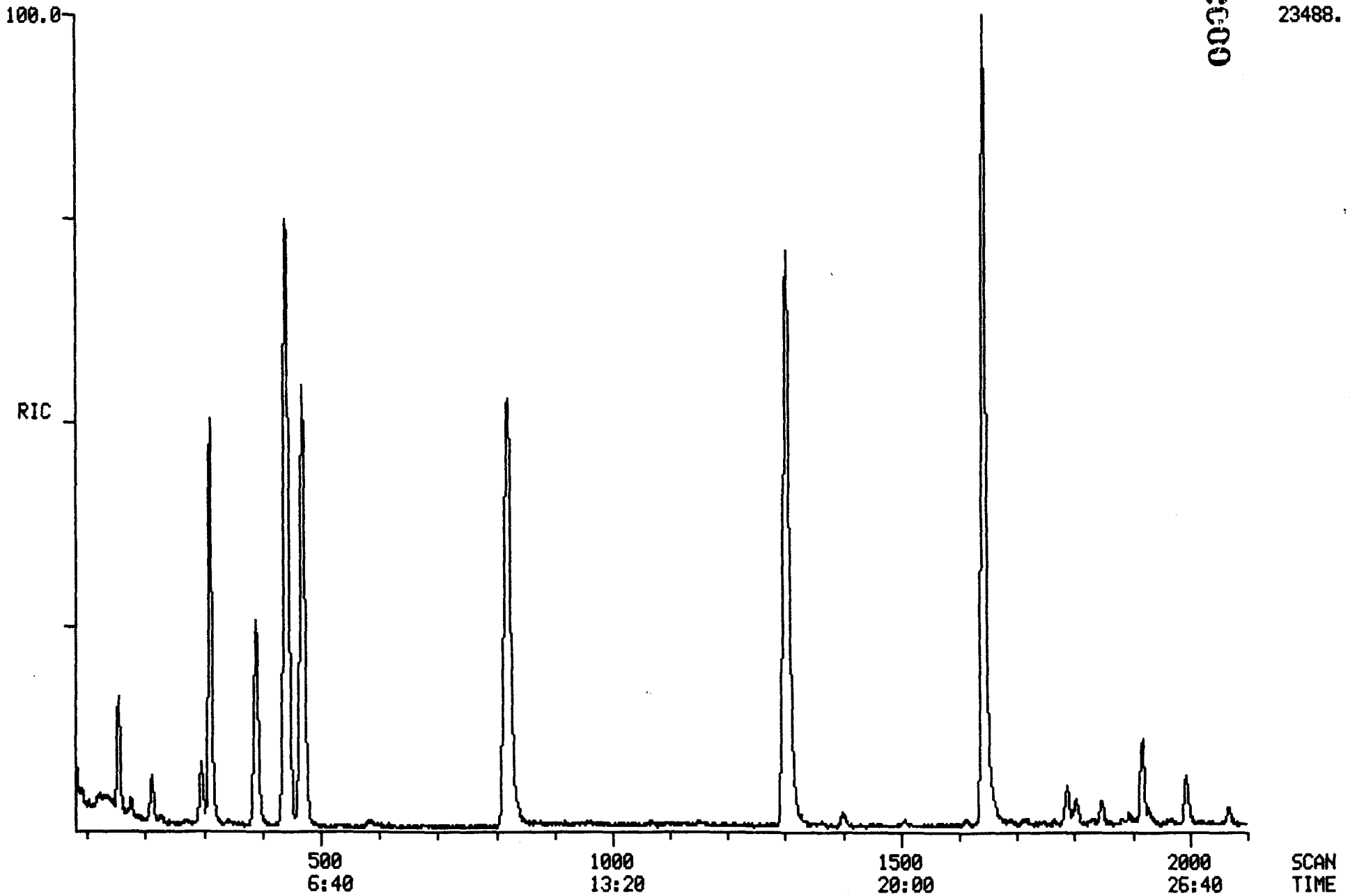
X 106

RIC
04/01/91 13:22:00
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0401LC07 #1
CALI: B0401LC07 #3

SCANS 80 TO 2100

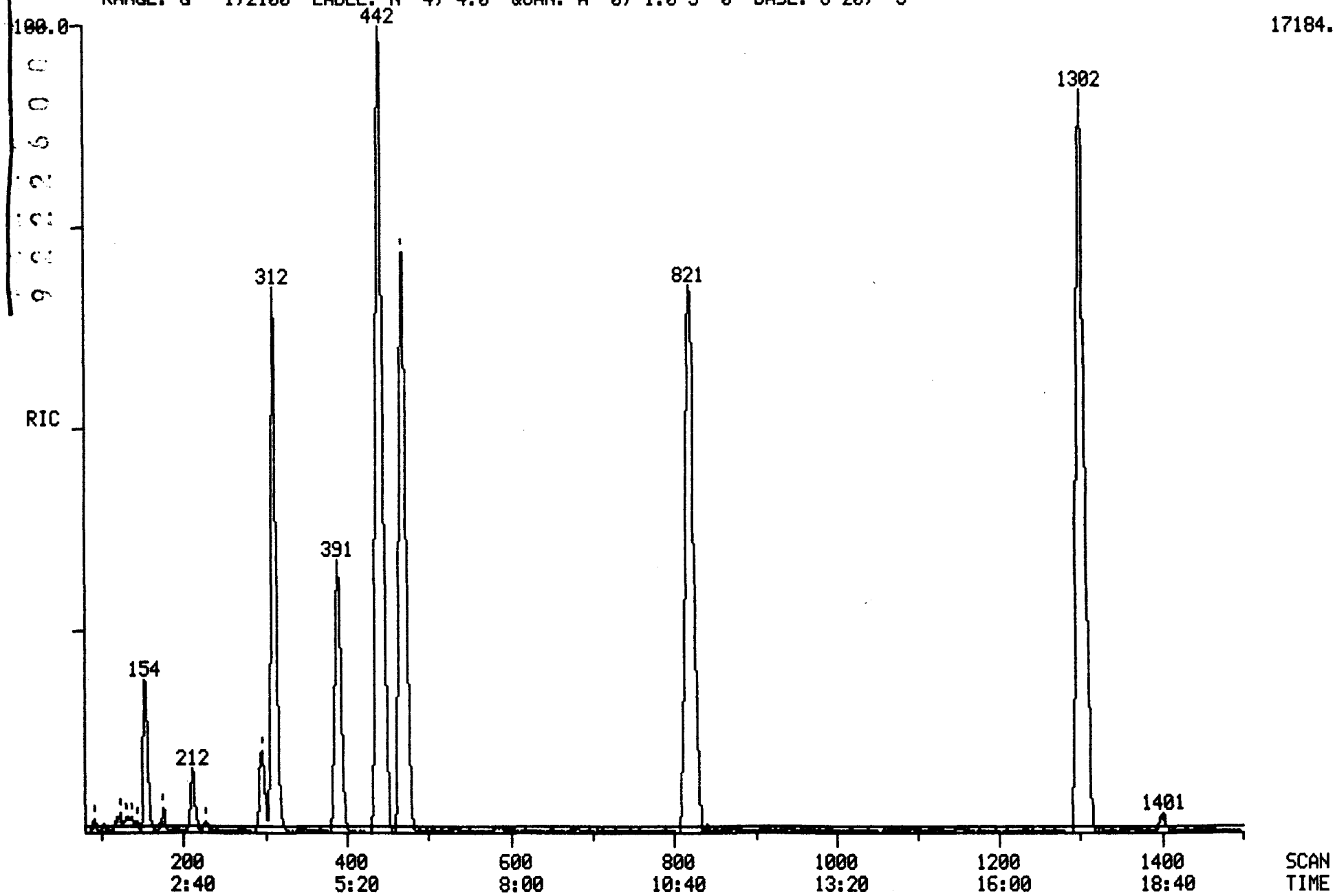
003352



TCA FINISHED, 14 FOUND
FINISHED AT: 4/01/91 17:35:56

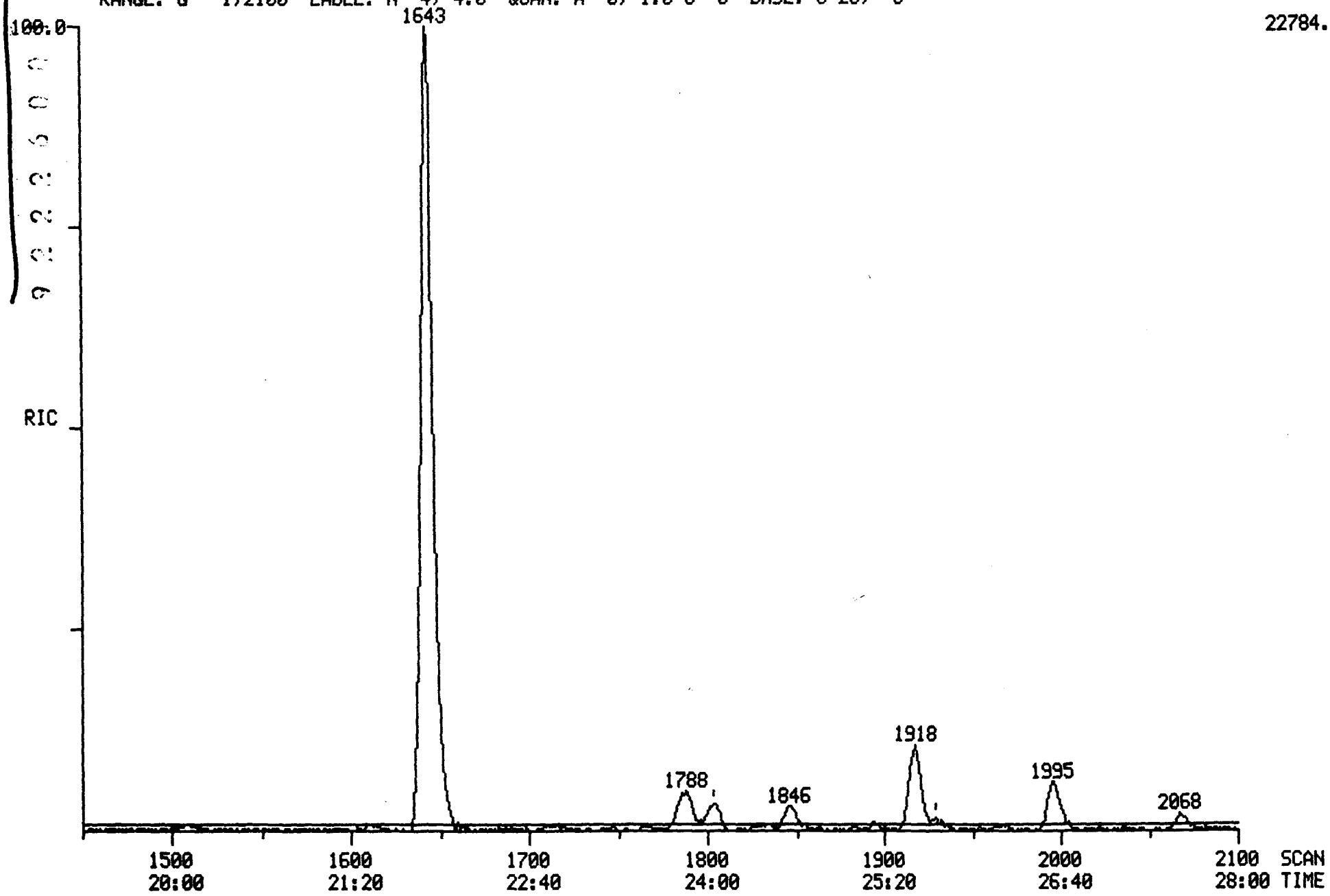
RIC
04/01/91 13:22:00
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0401LC07 #1 SCANS 80 TO 1500
CALI: B0401LC07 #3



003253

RIC DATA: B0401LC07 #1 SCANS 1450 TO 2100
04/01/91 13:22:00 CALI: B0401LC07 #3
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



4/1/91 13:23:13 SCAN 1 OF 2100
Acquisition started

Acquire
04/01/91 13:22:00 + 0:02
Sample: 90904, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0401LC07
Free sectors: 5291
Instrument: 5100
Analyst: LC

Acquiring
Scan: 2 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 31 DegC
Elapsed time : 0: 7 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.200
Samp int (ms): 0.200

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

4/1/91 13:54:25
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	12.5	1680.0	0.7	28128.	13.	17.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 14:32:09
DATA FILE: B0401LC07
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	2	106	CLSRT1/CLSTC1
1	1	1	0	13	3	1	58	CLSRT2/CLSTC2
1	1	1	0	16	8	40	568	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 14 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	315	312	312	.	1	976	.	128	312	.	1
2	CS	2	-100	101	.	.	.	.	.	50	.	.	.
3	CS	3	-110	111	.	.	.	.	.	94	.	.	.
4	CS	4	-101	102	.	.	.	.	.	62	.	.	.
5	CS	5	-111	112	.	.	.	.	.	64	.	.	.
6	CS	6	178	178	177	-1	1	988	.	84	177	.	1
7	CS	7	154	154	155	1	2	956	.	43	154	-1	1
8	CS	8	-158	158	.	.	.	.	.	76	155	.	1
9	CS	9	-145	146	.	.	.	.	.	96	.	.	.
10	CS	10	-231	230	.	.	.	.	.	63	.	.	.
11	CS	12	-330	327	.	.	.	.	.	83	323	.	1
12	CS	13	-344	340	.	.	.	.	.	97	.	.	.
13	CS	14	-118	119	.	.	.	.	.	101	120	.	1
14	CS	15	-195	194	.	.	.	.	.	96	.	.	.
15	CS	16	-287	284	.	.	.	.	.	96	.	.	.
16	CS	17	478	470	470	.	1	996	.	114	470	.	1
17	CS	18	-408	402	.	.	.	.	.	62	.	.	.
18	CS	19	299	296	296	.	1	978	.	72	296	.	1
19	CS	20	-364	359	.	.	.	.	.	117	.	.	.
20	CS	21	-239	238	.	.	.	.	.	43	236	.	1
21	CS	22	-644	632	.	.	.	.	.	83	.	.	.
22	CS	23	-564	554	.	.	.	.	.	63	.	.	.
23	CS	24	-759	743	.	.	.	.	.	75	.	.	.
24	CS	25	-516	507	.	.	.	.	.	130	.	.	.
25	CS	27	-396	391	.	.	.	.	.	78	391	.	1
26	CS	28	-745	730	.	.	.	.	.	106	.	.	.
27	CS	29	396	391	391	.	1	972	.	65	390	-1	1
28	CS	43	-1510	1474	.	.	.	.	.	173	.	.	.
29	CS	30	1309	1302	1302	.	1	994	.	117	1302	.	1
30	CS	26	-1141	1126	.	.	.	.	.	129	.	.	.
31	CS	31	-1017	1006	.	.	.	.	.	97	.	.	.
32	CS	32	-961	951	.	.	.	.	.	75	.	.	.
33	CS	33	-1148	1133	.	.	.	.	.	43	1130	.	2
34	CS	34	851	844	.	.	.	.	.	43	.	.	.
35	CS	35	-1017	1006	.	.	.	.	.	164	.	.	.
36	CS	36	1754	1724	.	.	.	.	.	83	.	.	.
37	CS	37	849	842	839	-3	1	996	.	91	841	2	1
38	CS	38	-1331	1311	1310	-1	1	997	.	112	1311	1	1
39	CS	39	-1384	1363	1361	-2	4	1000	.	106	1363	2	2
40	CS	40	-1543	1518	.	.	.	.	.	104	1517	.	1
41	CS	41	-1423	1401	1401	.	1	991	.	106	1402	1	1
42	CS	42	-1531	1506	1508	2	1	978	.	106	1507	-1	1
43	CS	44	1677	1649	1643	-6	5	989	.	95	1644	1	1
44	CS	45	829	822	821	-1	2	995	.	98	821	.	1

TCA FINISHED, 11 FOUND
FINISHED AT: 4/02/91 14:57:36
Quantitation Report File: B0401LC07

Data: B0401LC07.TI
04/01/91 13:22:00
Sample: 90904, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	312	4:10	1	1.000	A BB	10172.	50.000 UG/G	8.73
2	NOT	FOUND							
3	NOT	FOUND							
4	NOT	FOUND							
5	NOT	FOUND							
6	84	177	2:22	1	0.567	A BB	325.	~~1.265~~ UG/G	0.22
7	43	154	2:03	1	0.494	A BB	11087.	85.674 UG/G	14.96
8	76	155	2:04	1	0.497	A BB	95.	~~0.076~~ UG/G	0.02
9	NOT	FOUND							
10	NOT	FOUND							
11	83	323	4:18	1	1.035	A BB	23.	~~0.042~~ UG/G	0.01
12	NOT	FOUND							
13	101	120	1:36	1	0.385	A BB	12.	~~0.102~~ UG/G	0.02
14	NOT	FOUND							
15	NOT	FOUND							
16	114	470	6:16	16	1.000	A BB	47075.	50.000 UG/G	8.73
17	NOT	FOUND							
18	72	296	3:57	16	0.630	A BB	1911.	40.390 UG/G	7.05
19	NOT	FOUND							
20	43	236	3:09	16	0.502	A BB	64.	~~0.267~~ UG/G	0.05
21	NOT	FOUND							
22	NOT	FOUND							
23	NOT	FOUND							
24	NOT	FOUND							
25	78	391	5:13	16	0.832	A BB	1149.	~~1.314~~ UG/G	0.23
26	NOT	FOUND							
27	65	390	5:12	16	0.830	A BB	13247.	96.859 %	16.91
28	NOT	FOUND							
29	117	1302	17:22	29	1.000	A BB	51018.	50.000 UG/G	8.73
30	NOT	FOUND							
31	NOT	FOUND							
32	NOT	FOUND							
33	43	1130	15:04	29	0.868	A*VB	89.	~~0.197~~ UG/G	0.03
34	NOT	FOUND							
35	NOT	FOUND							
36	NOT	FOUND							
37	91	841	11:13	29	0.646	A BB	1510.	~~1.612~~ UG/G	0.28
38	112	1311	17:29	29	1.007	A BB	3946.	3.874 UG/G	0.68
39	106	1363	18:10	29	1.047	A*BB	149.	~~0.296~~ UG/G	0.05
40	104	1517	20:14	29	1.165	A BB	110.	~~0.105~~ UG/G	0.02
41	106	1402	18:42	29	1.077	A BB	736.	~~1.180~~ UG/G	0.21
42	106	1507	20:06	29	1.157	A BB	300.	~~0.477~~ UG/G	0.08
43	95	1644	21:55	29	1.263	A BB	46376.	89.707 %	15.66
44	98	821	10:57	29	0.631	A BB	49325.	99.373 %	17.35

Quantitation Report File: B0401LC07A

Data: B0401LC07.TI
04/01/91 13:22:00
Sample: 90904, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

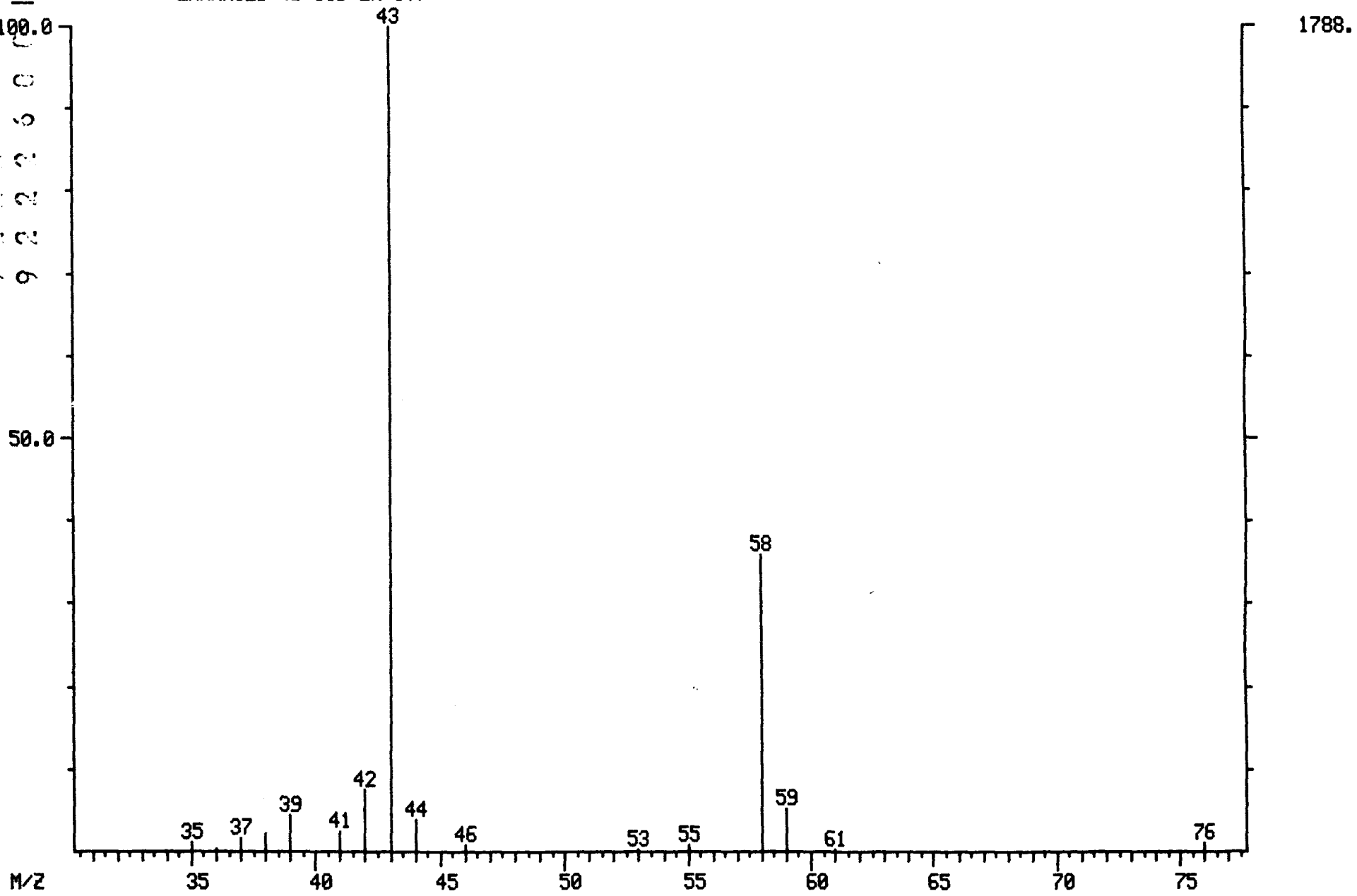
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	442	5:54	1	1.000	A BB	161679.	66.200	*100.

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/01/91 13:22:00 + 2:03
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #154
CALI: B0401LC07 #3

BASE M/Z: 43
RIC: 3004.

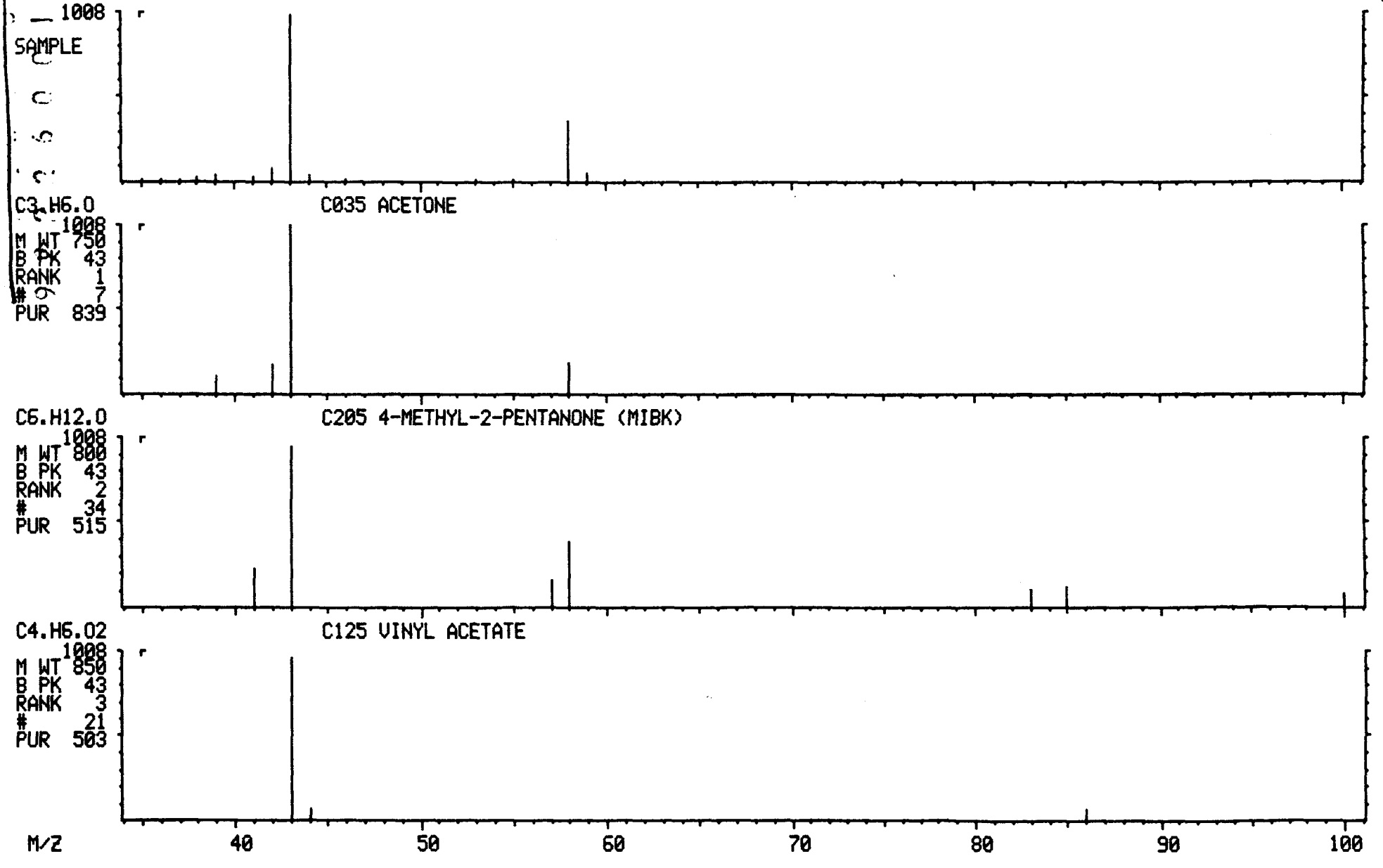


003362

LIBRARY SEARCH
04/01/91 13:22:00 + 2:03
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 # 154
CALI: B0401LC07 # 3

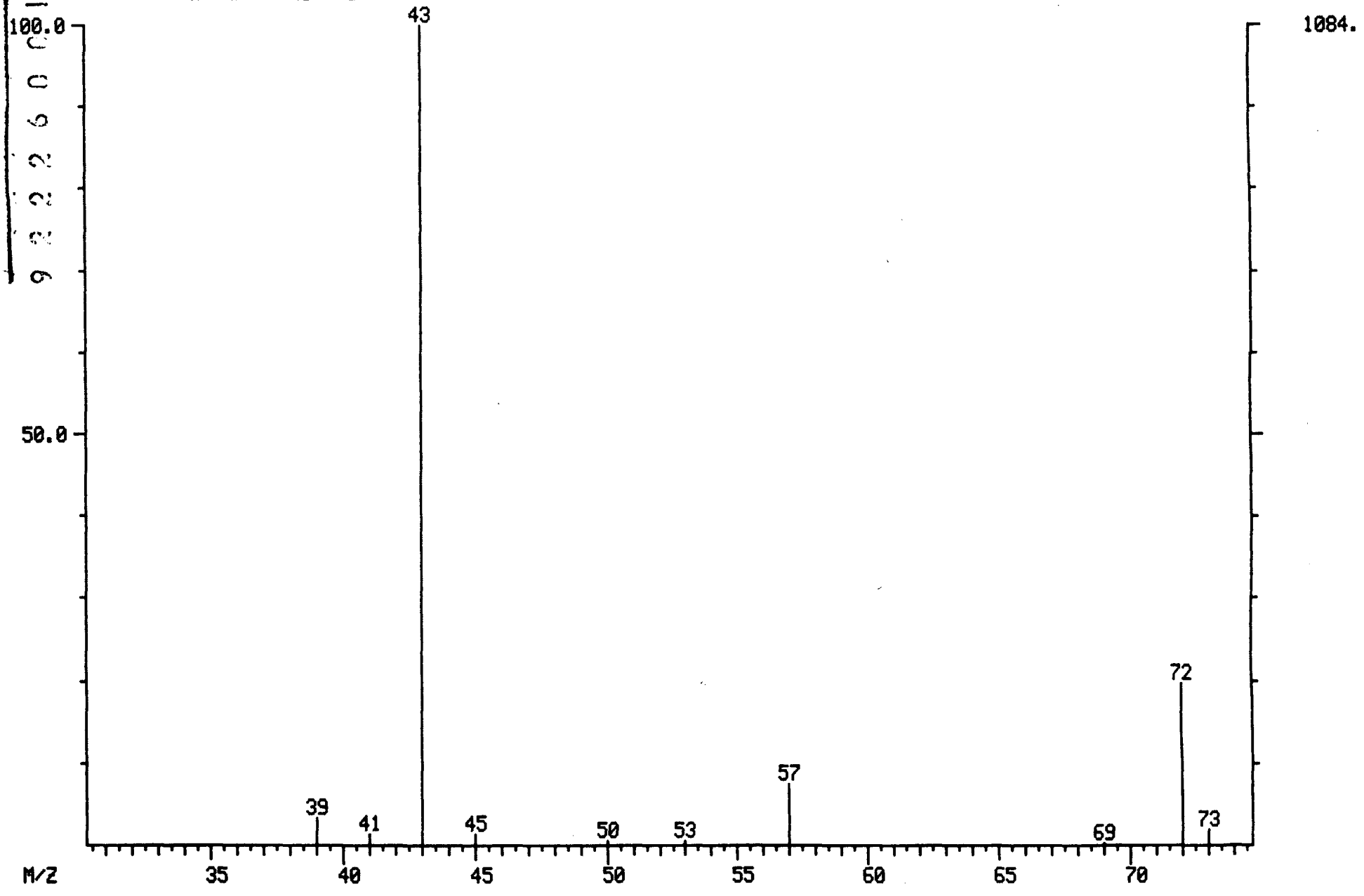
BASE M/Z: 43
RIC: 3003.



MASS SPECTRUM
04/01/91 13:22:00 + 3:57
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #296
CALI: B0401LC07 #3

BASE M/Z: 43
RIC: 1482.



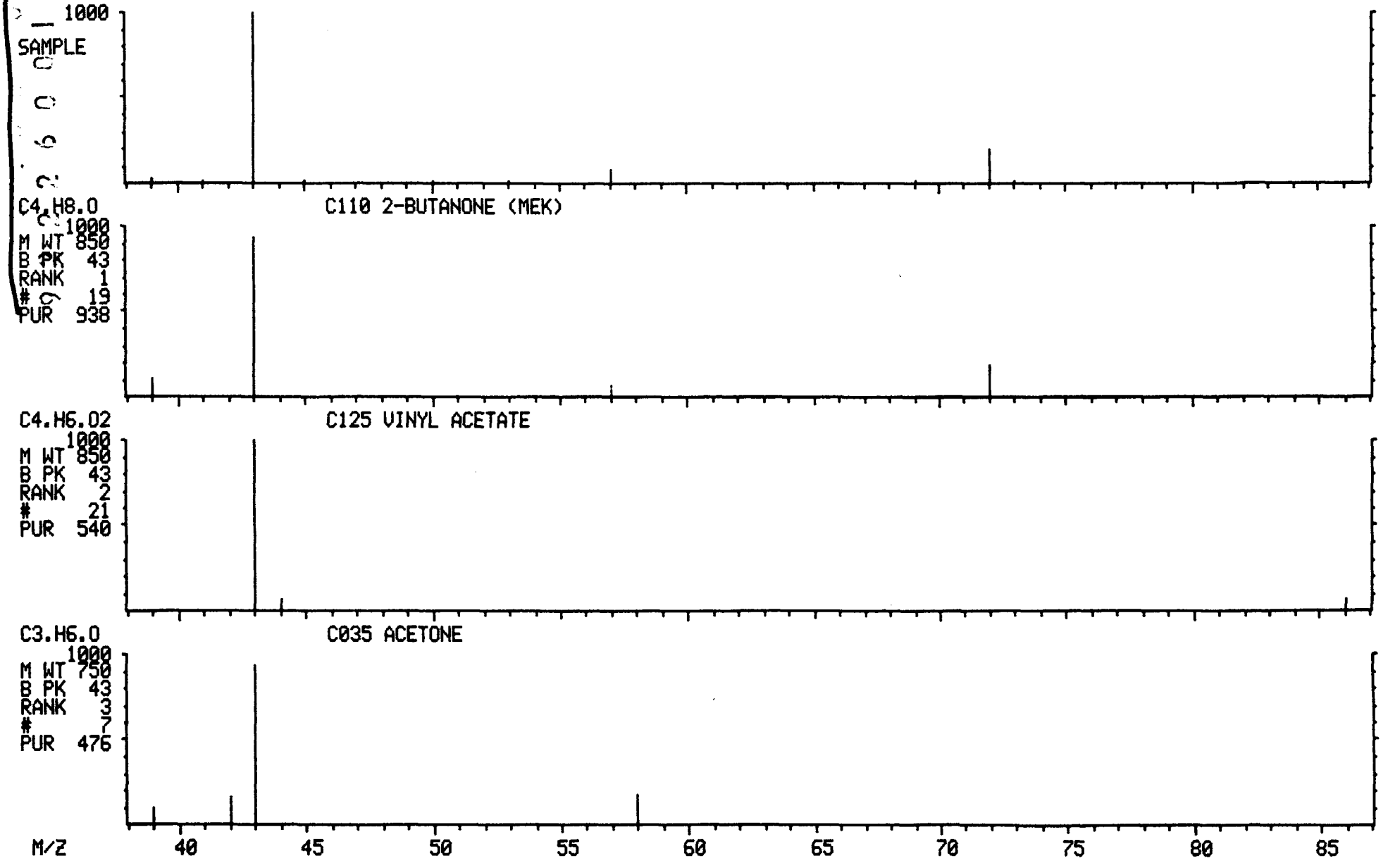
000364

LIBRARY SEARCH
04/01/91 13:22:00 + 3:57
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 # 296
CALI: B0401LC07 # 3

BASE M/Z: 43
RIC: 1481.

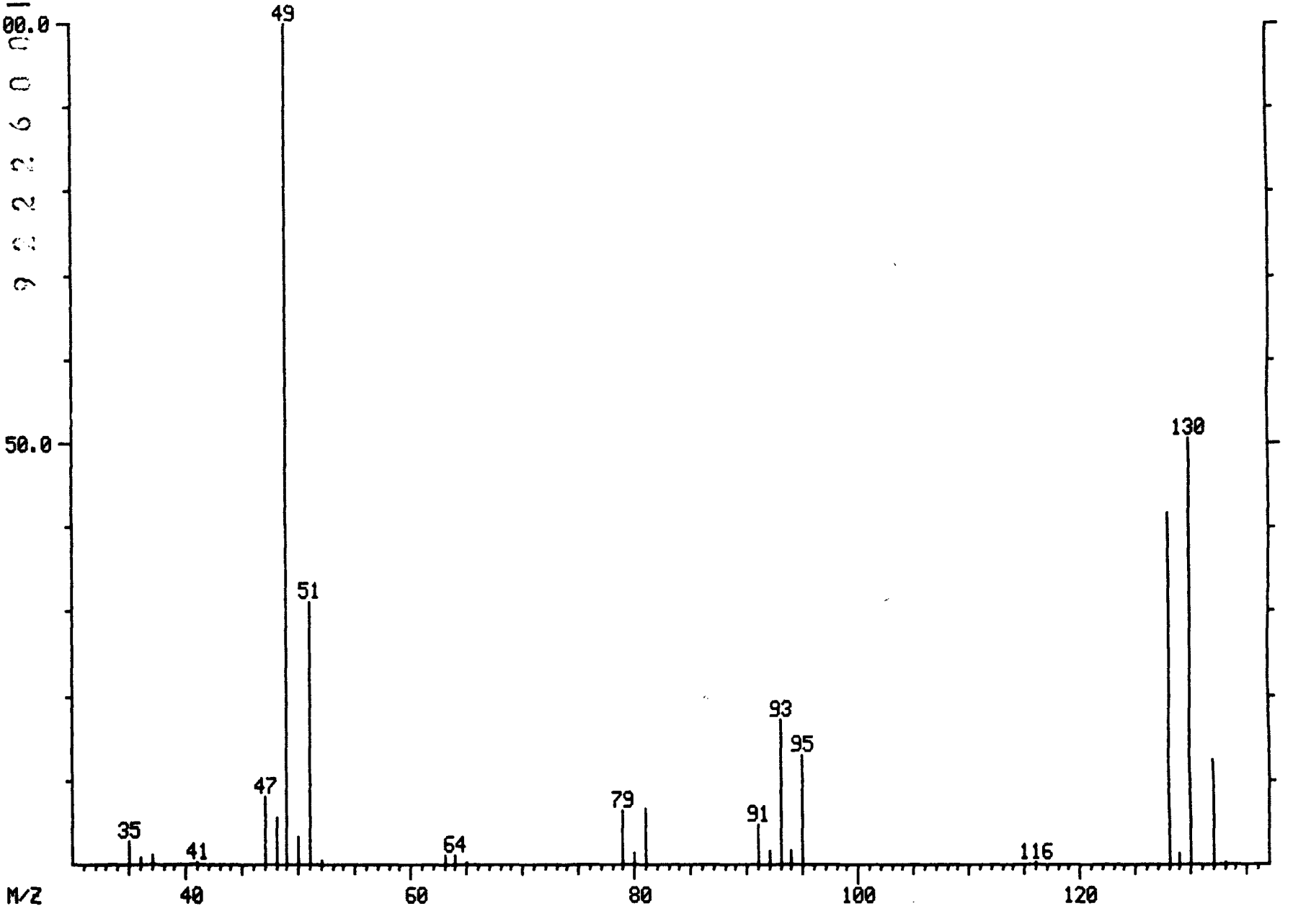
000365



MASS SPECTRUM
04/01/91 13:22:00 + 4:10
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #312
CALI: B0401LC07 #3

BASE M/Z: 49
RIC: 10896.



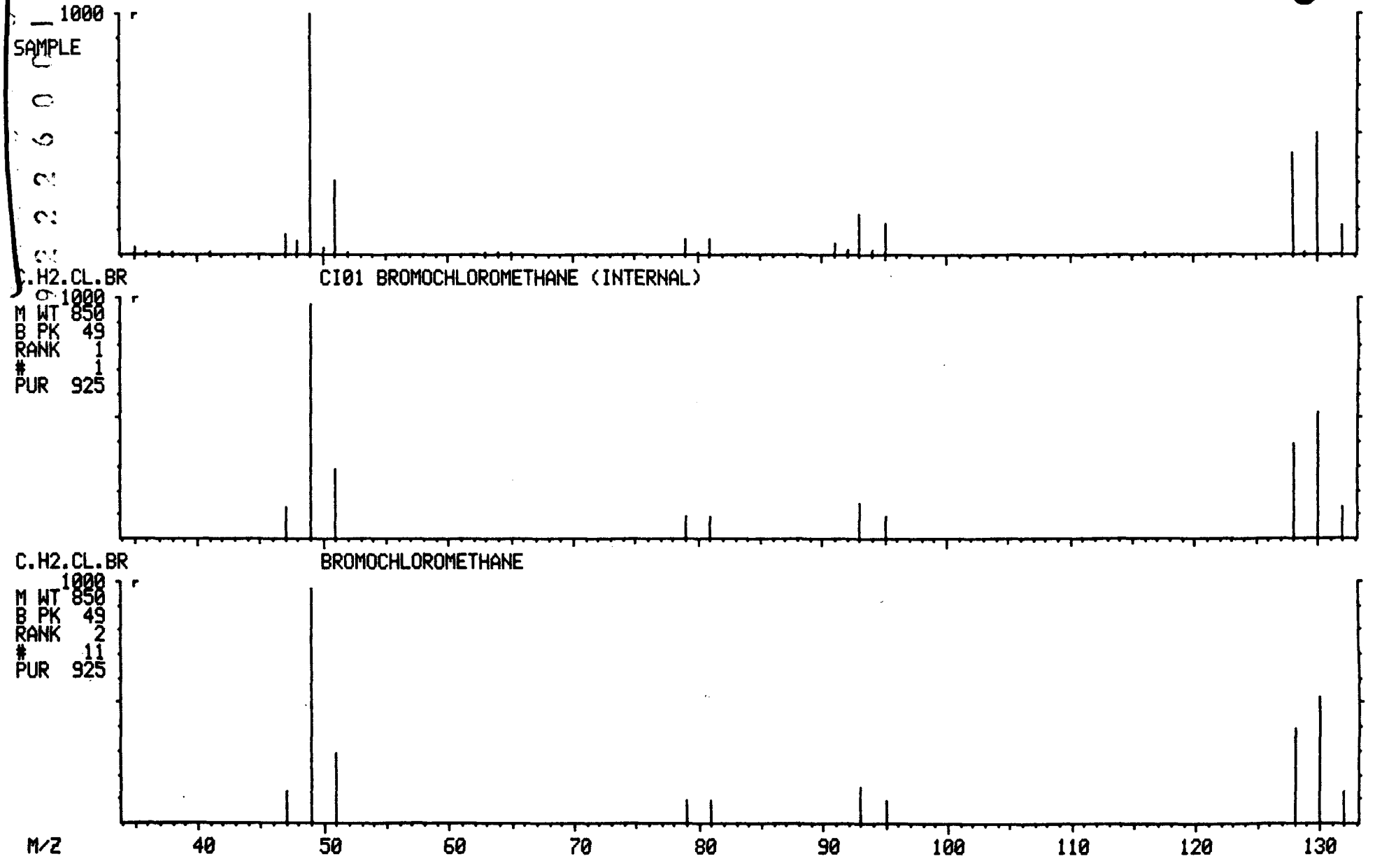
000366

LIBRARY SEARCH
04/01/91 13:22:00 + 4:10
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 # 312
CALI: B0401LC07 # 3

BASE M/Z: 49
RIC: 10895.

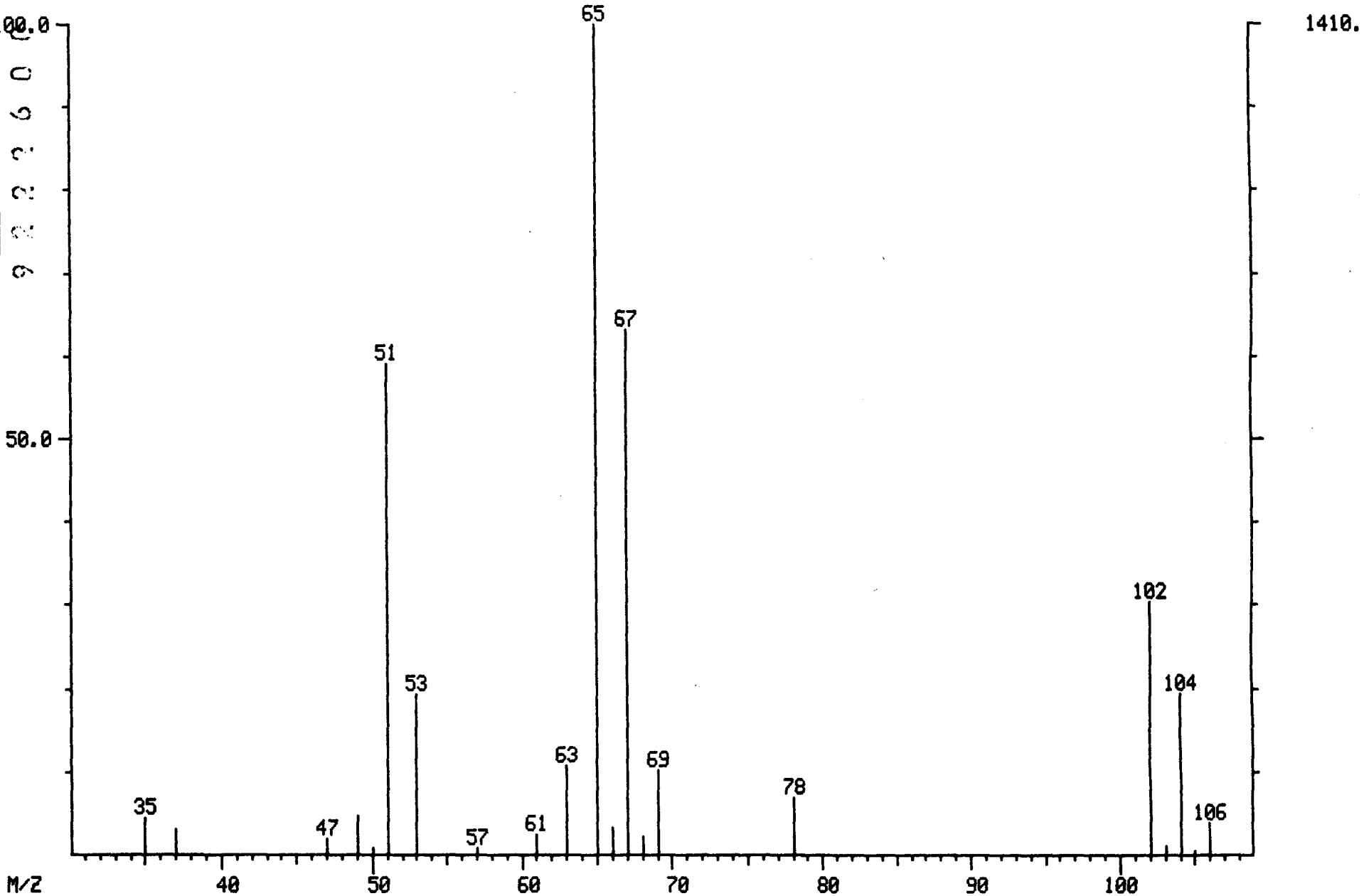
000367



MASS SPECTRUM
04/01/91 13:22:00 + 5:12
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #390
CALI: B0401LC07 #3

BASE M/Z: 65
RIC: 4920.

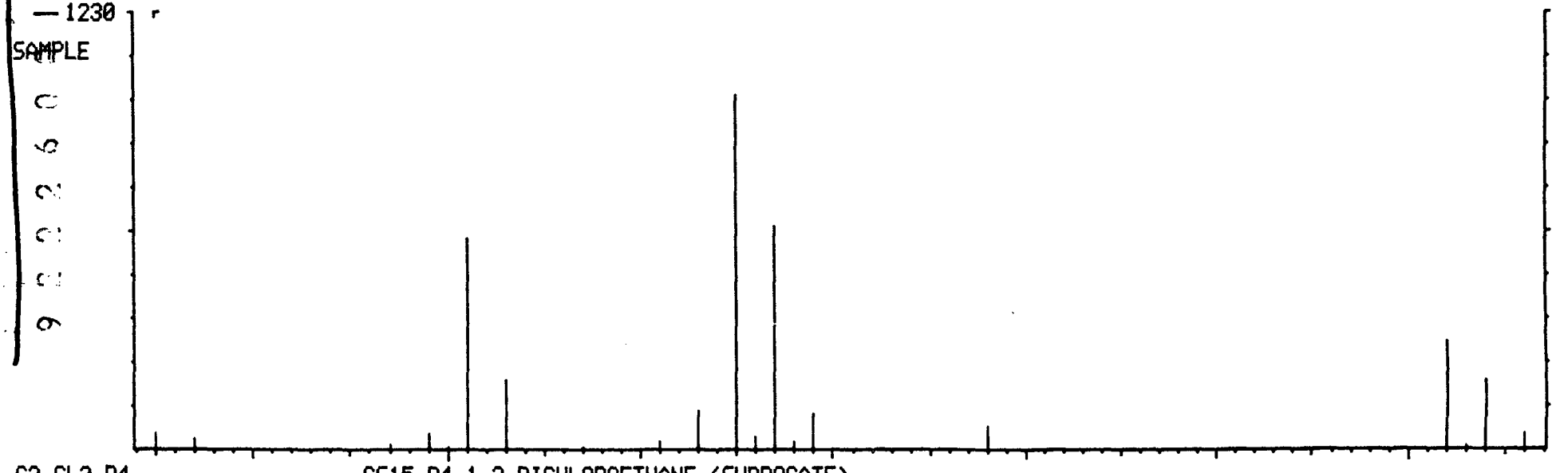


000368

LIBRARY SEARCH
04/01/91 13:22:00 + 5:12
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

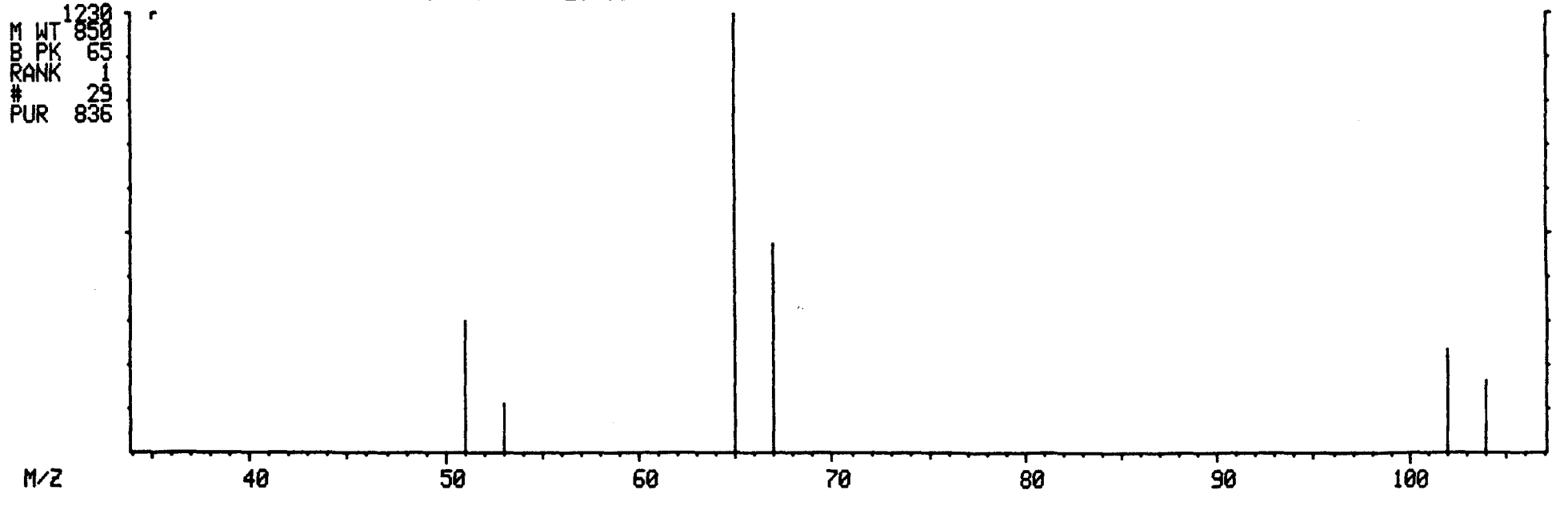
DATA: B0401LC07 # 390
CALI: B0401LC07 # 3

BASE M/Z: 65
RIC: 4911.



C2.CL2.D4 CS15 D4-1,2-DICHLOROETHANE (SURROGATE)

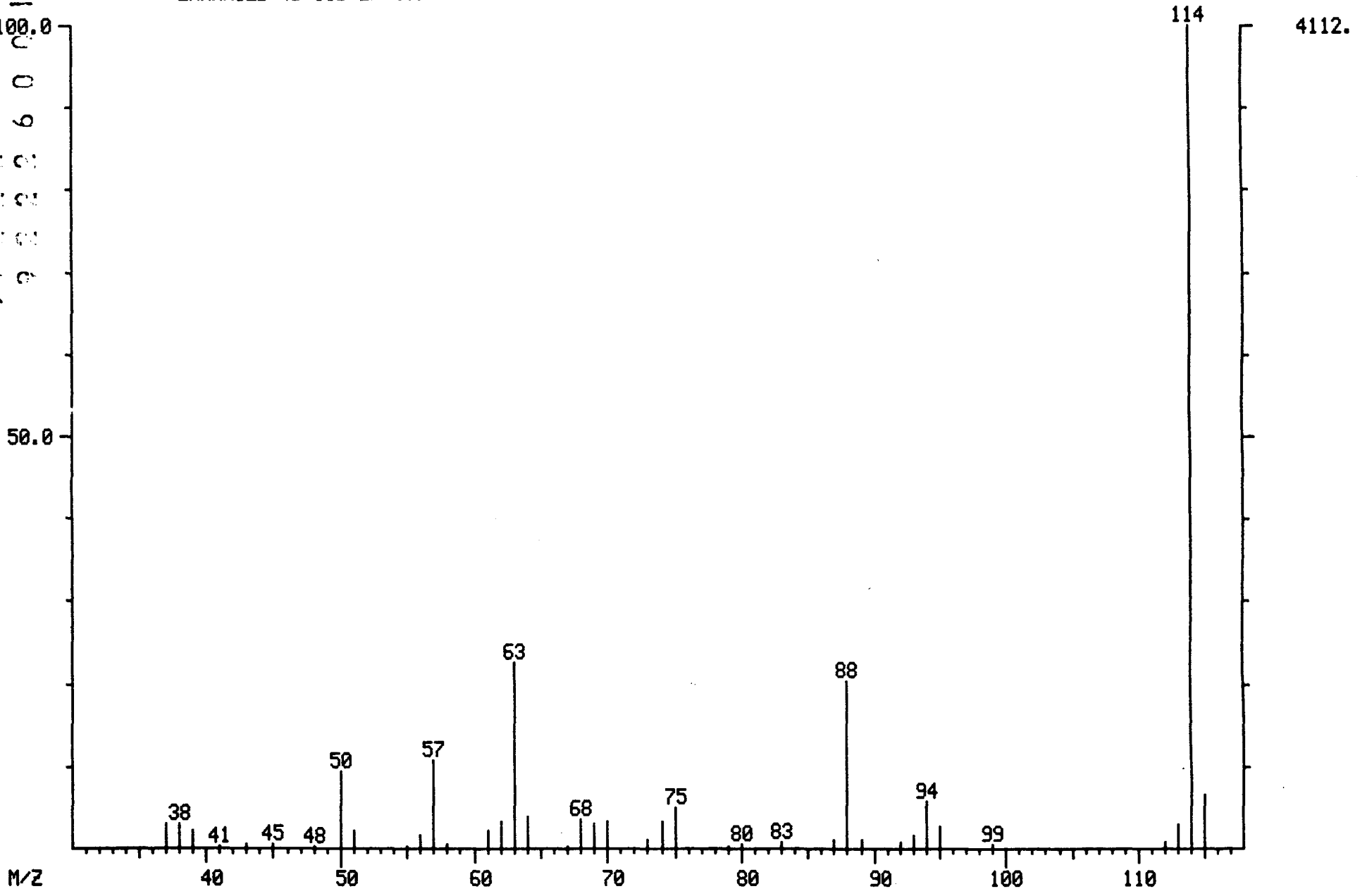
1230
M WT 850
B PK 65
RANK 1
29
PUR 836



MASS SPECTRUM
04/01/91 13:22:00 + 6:16
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #470
CALI: B0401LC07 #3

BASE M/Z: 114
RIC: 9632.



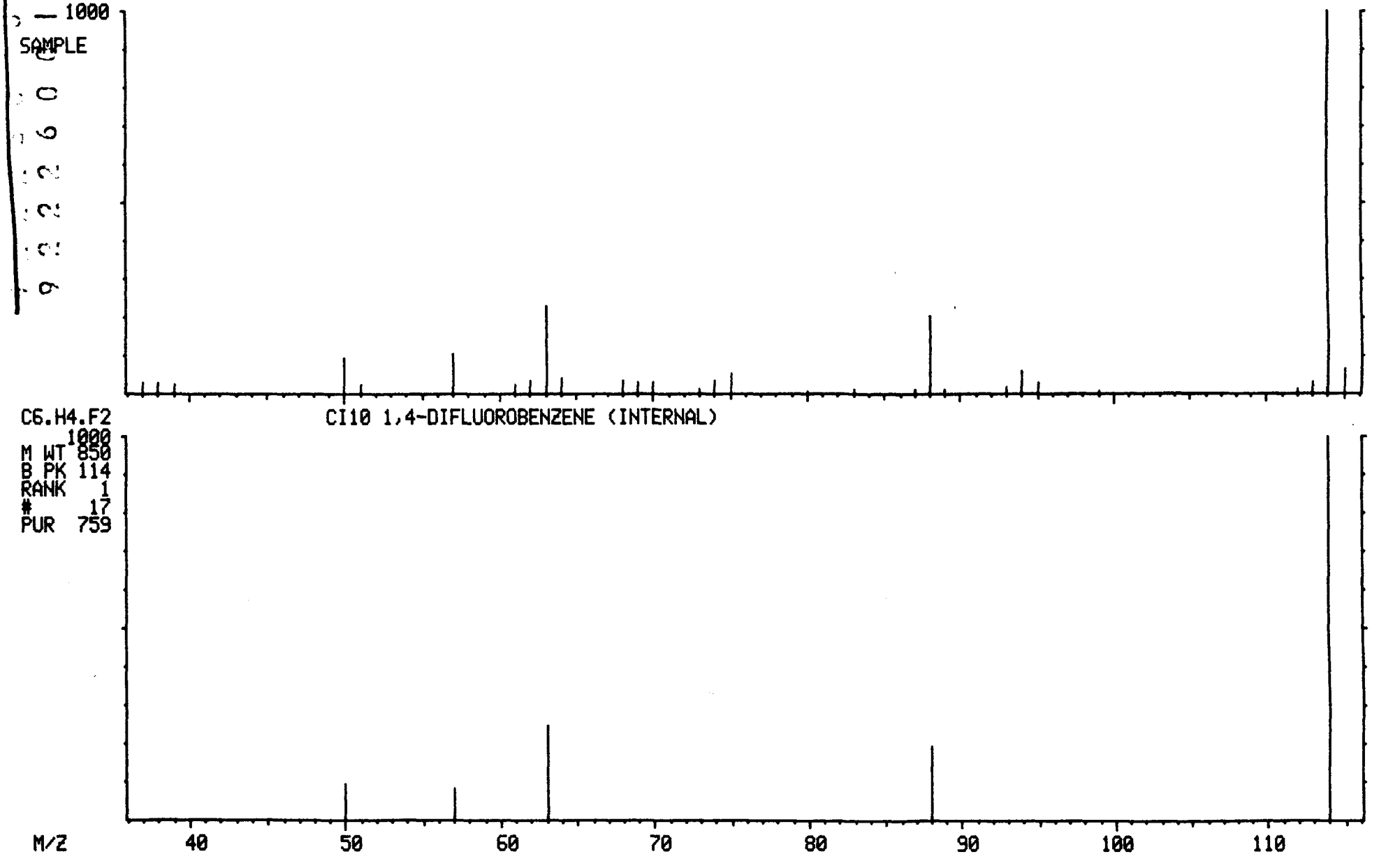
003370

LIBRARY SEARCH
04/01/91 13:22:00 + 6:16
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 # 470
CALI: B0401LC07 # 3

BASE M/Z: 114
RIC: 9375.

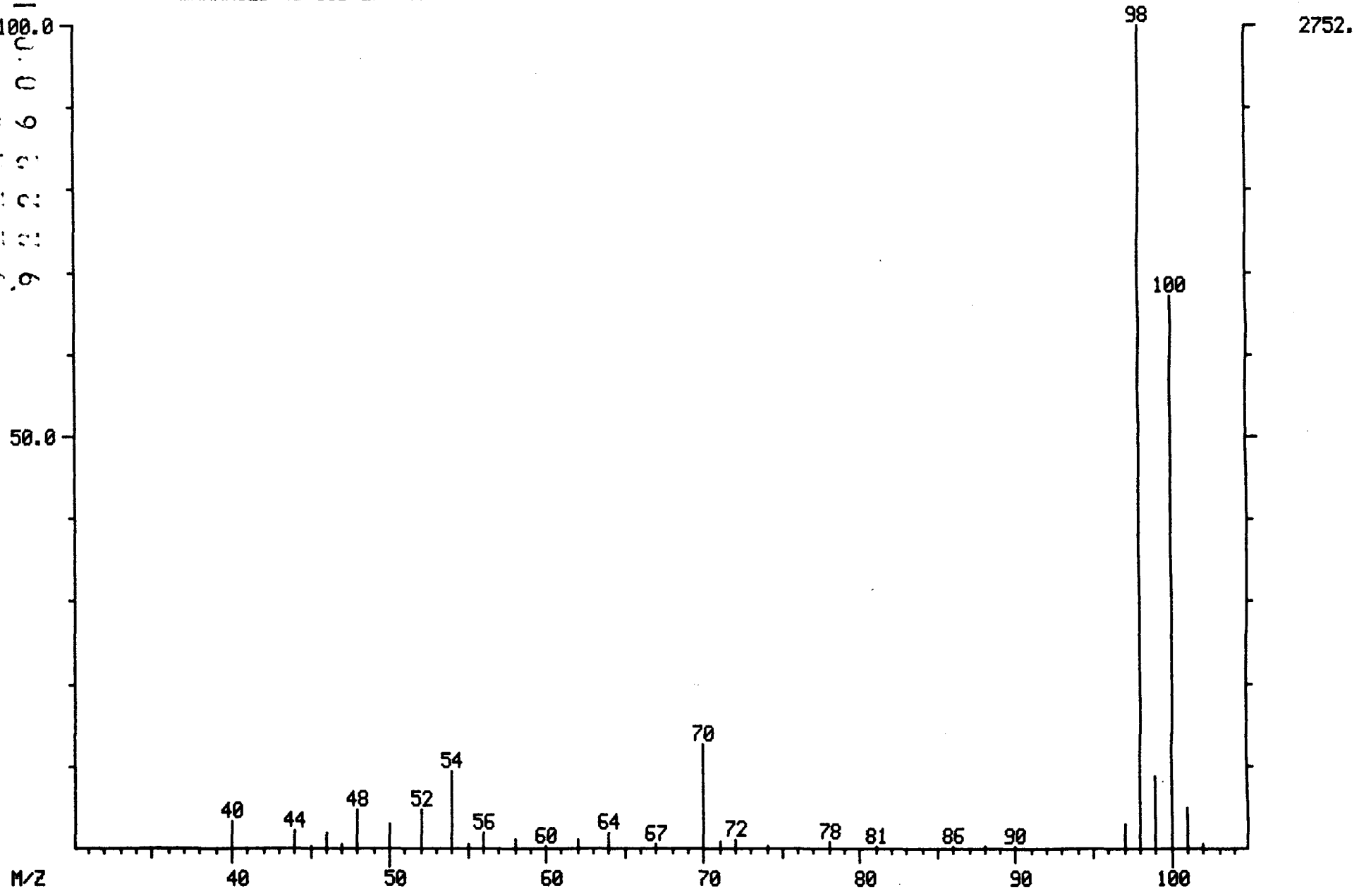
000371



MASS SPECTRUM
04/01/91 13:22:00 + 10:57
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #821
CALI: B0401LC07 #3

BASE M/Z: 98
RIC: 6584.

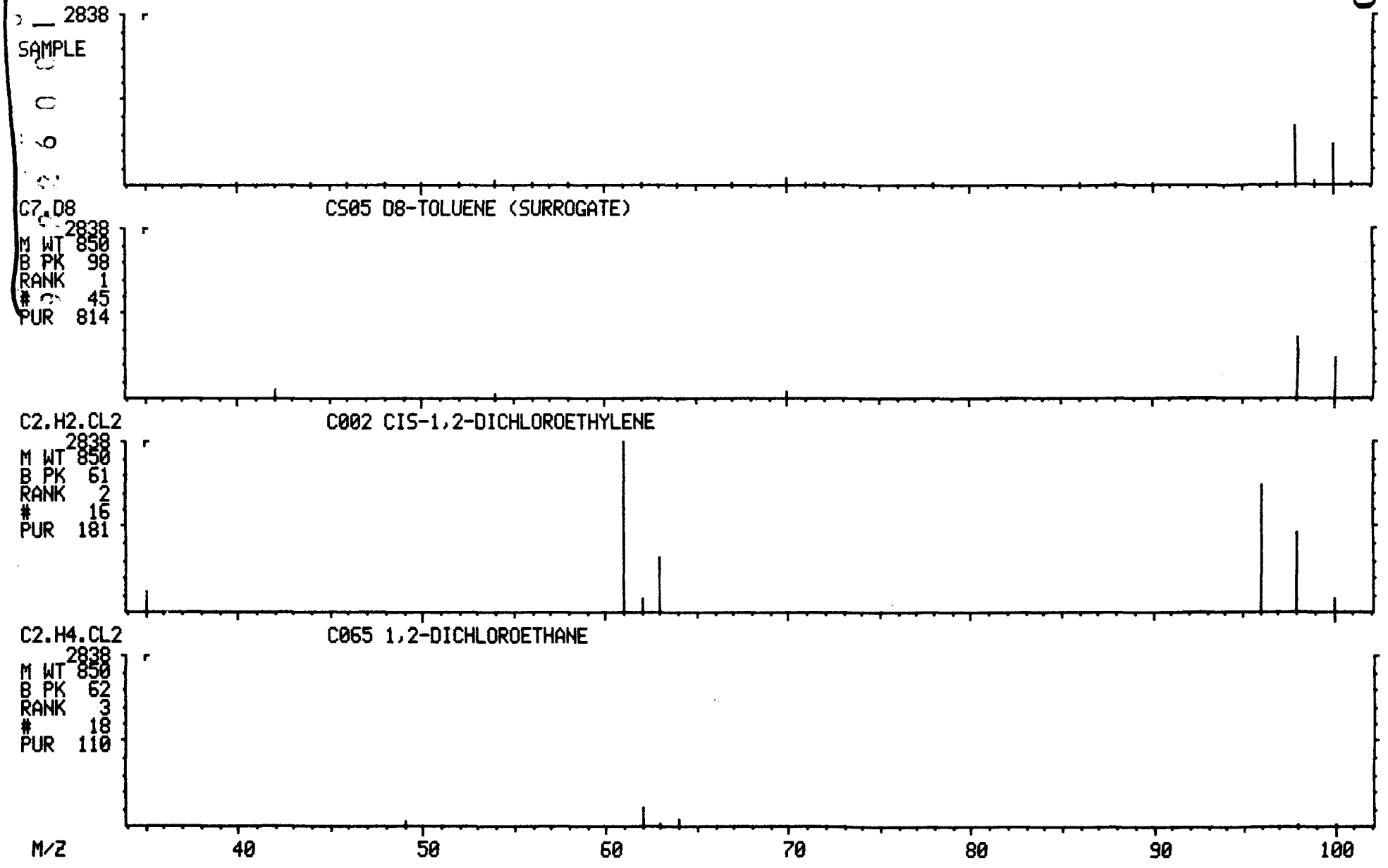


000372

LIBRARY SEARCH
04/01/91 13:22:00 + 10:57
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 # 821
CALI: B0401LC07 # 3

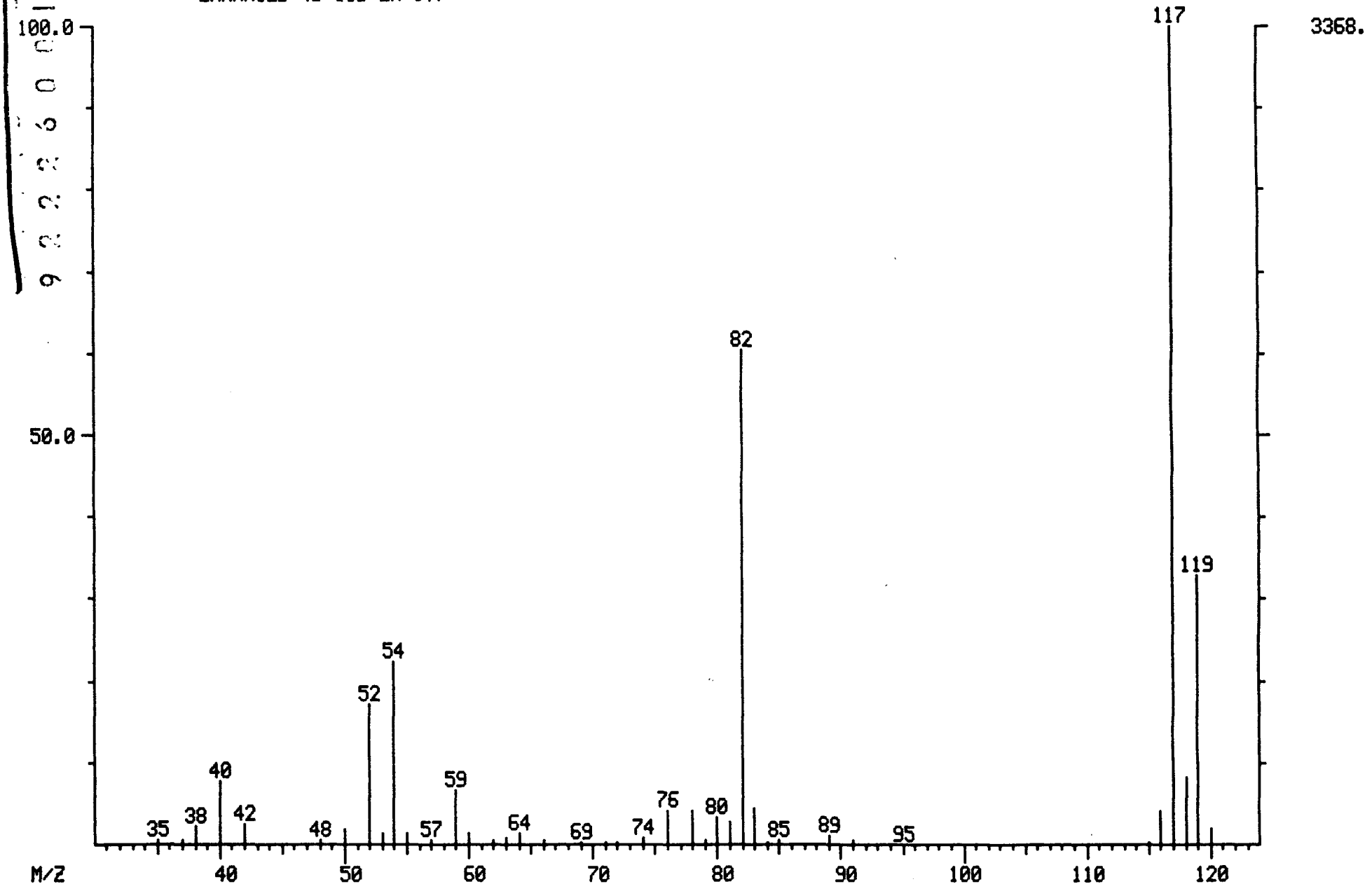
BASE M/Z: 98
RIC: 6503.



MASS SPECTRUM
04/01/91 13:22:00 + 17:22
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #1302
CALI: B0401LC07 #3

BASE M/Z: 117
RIC: 10176.



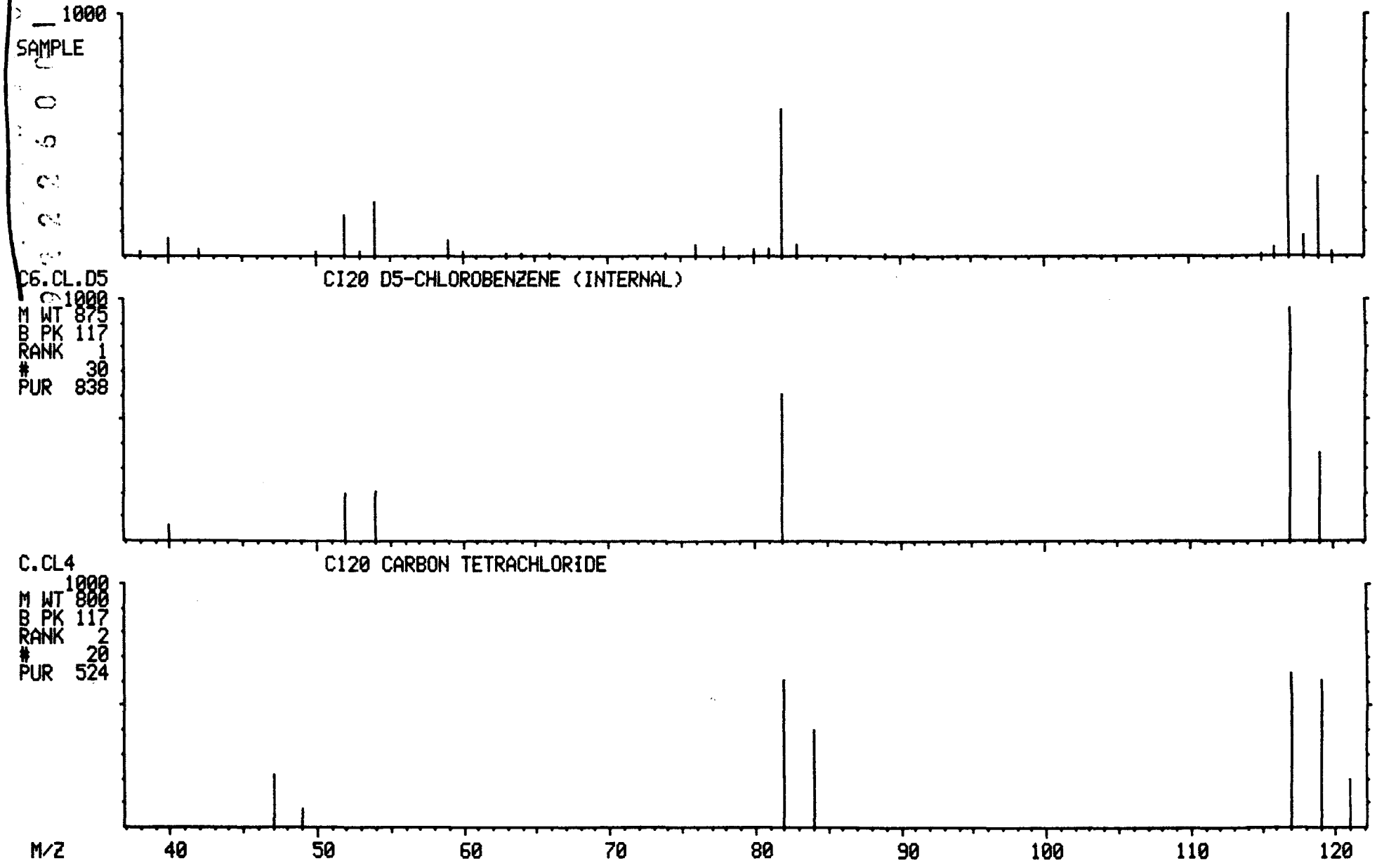
G003374

LIBRARY SEARCH
04/01/91 13:22:00 + 17:22
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #1302
CALI: B0401LC07 # 3

BASE M/Z: 117
RIC: 9967.

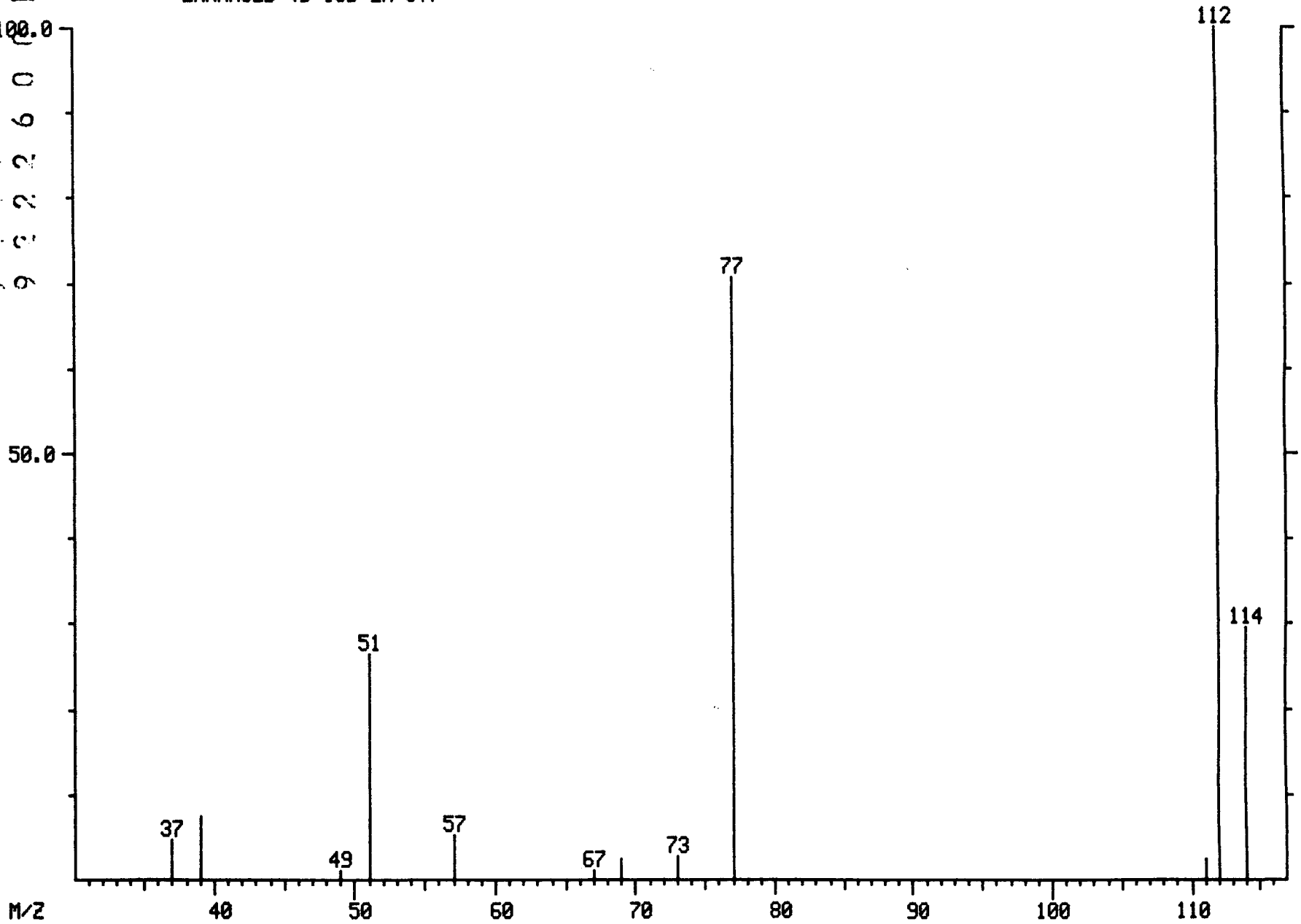
003375



MASS SPECTRUM
04/01/91 13:22:00 + 17:29
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #1311
CALI: B0401LC07 #3

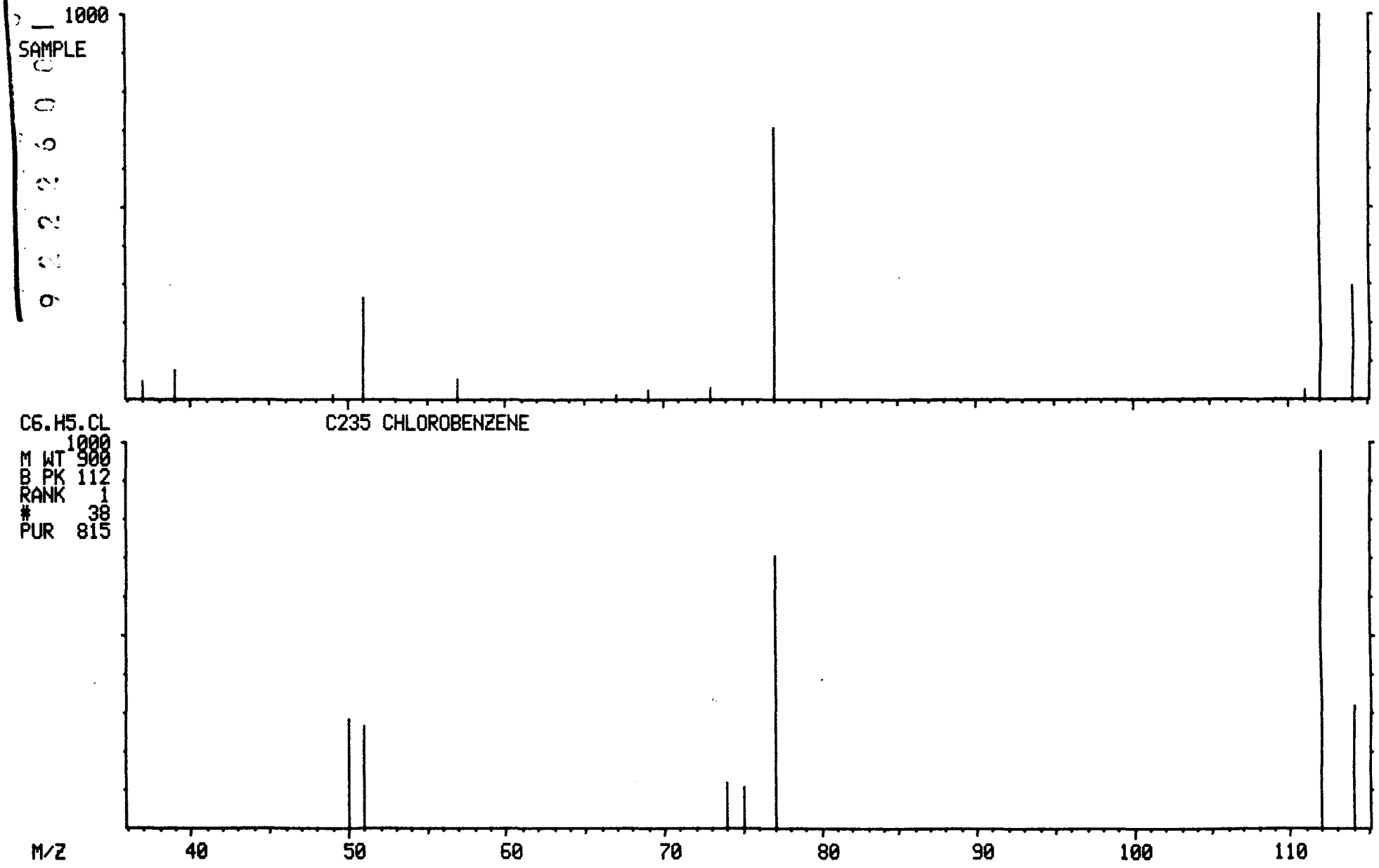
BASE M/Z: 112
RIC: 643.



LIBRARY SEARCH
04/01/91 13:22:00 + 17:29
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #1311
CALI: B0401LC07 # 3

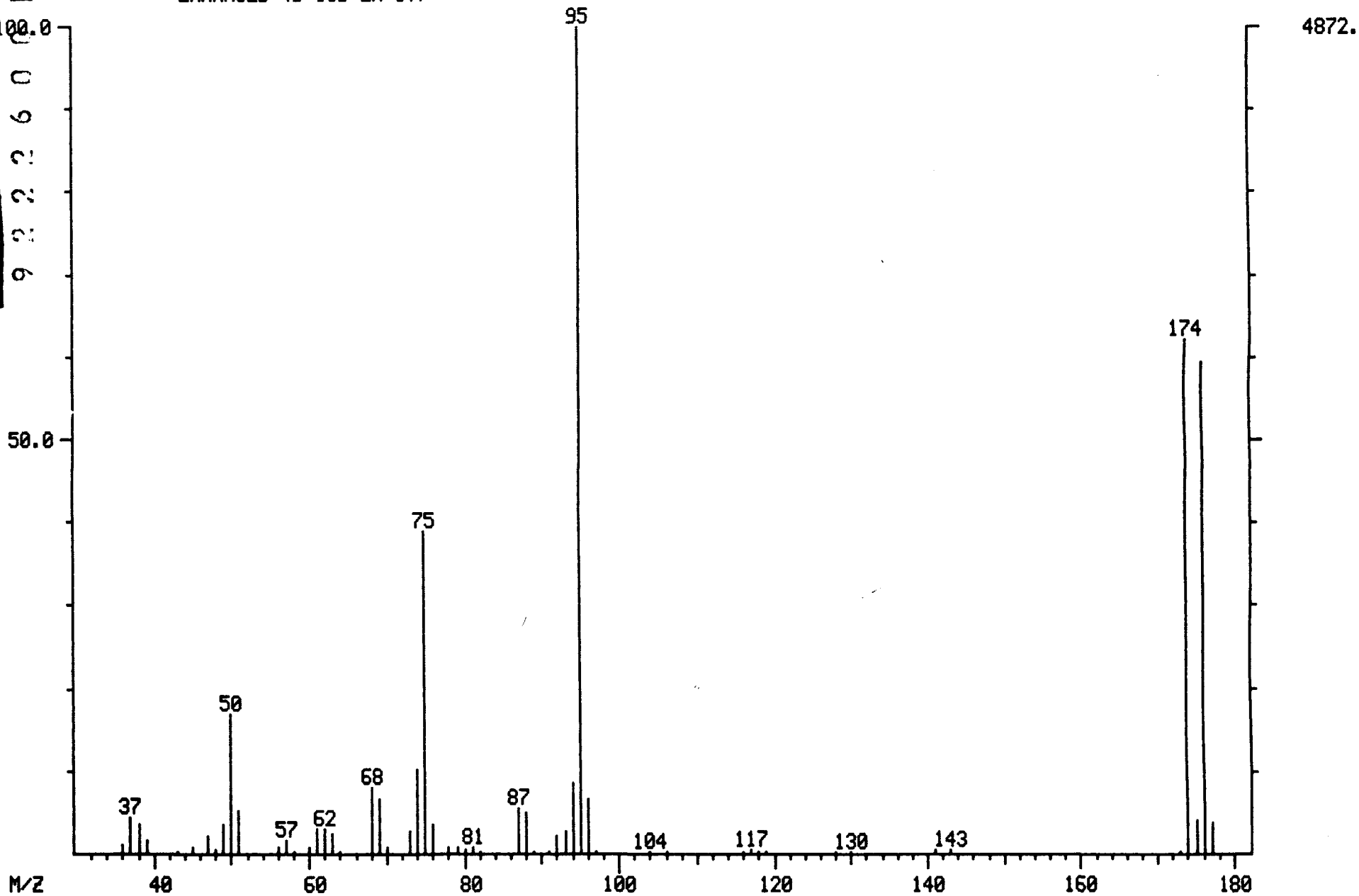
BASE M/Z: 112
RIC: 642.



MASS SPECTRUM
04/01/91 13:22:00 + 21:55
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #1644
CALI: B0401LC07 #3

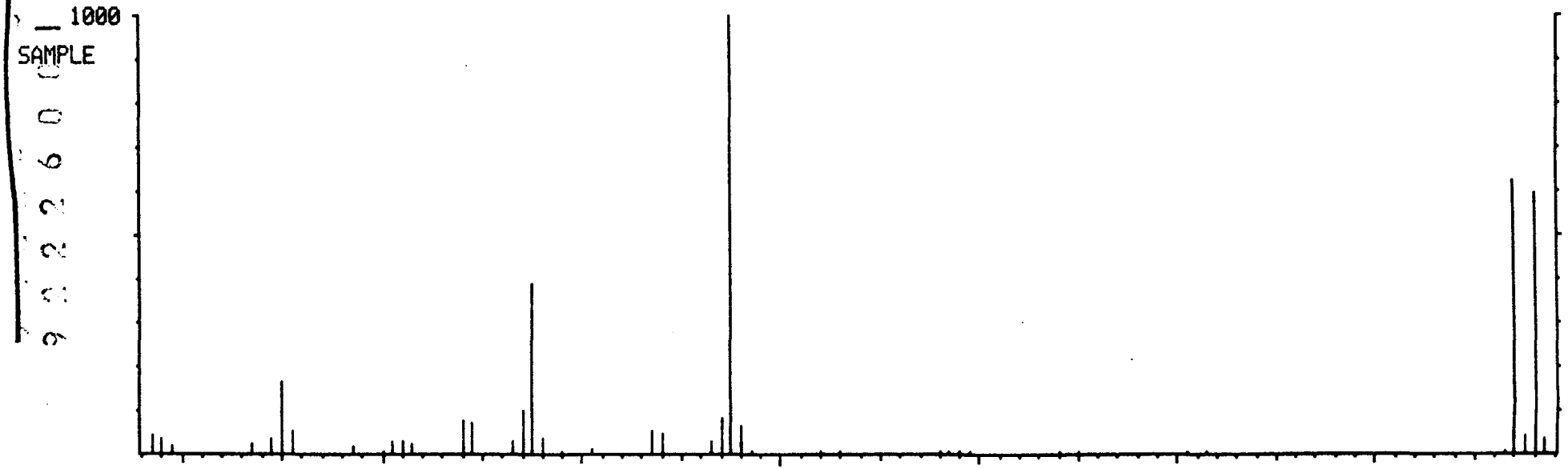
BASE M/Z: 95
RIC: 19072.



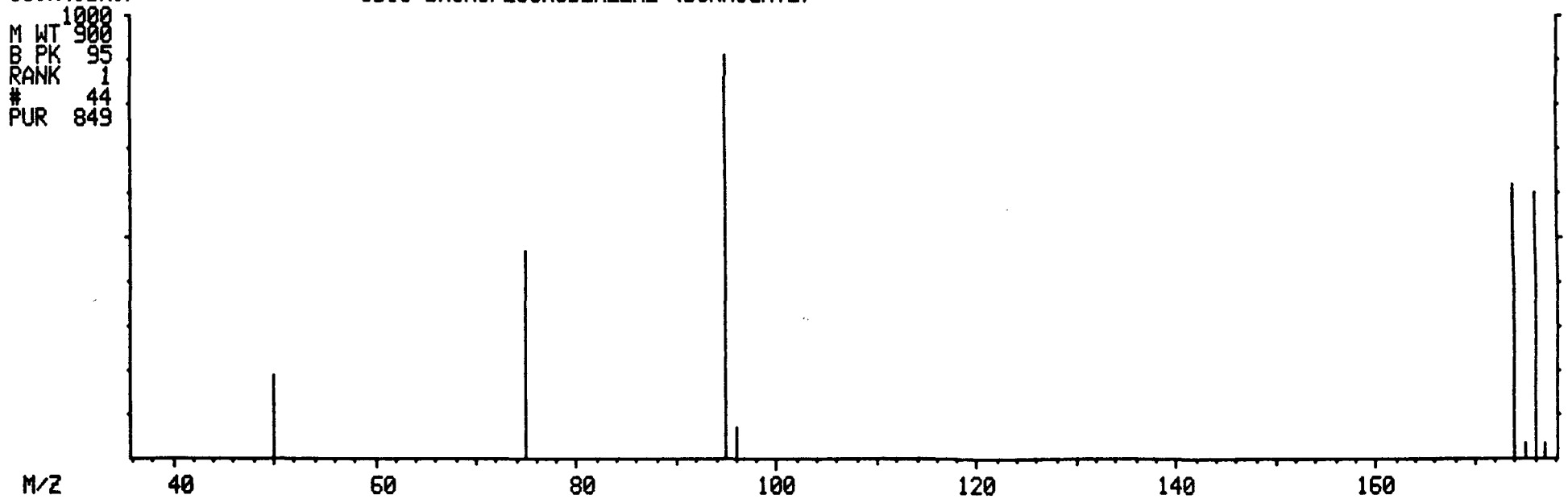
LIBRARY SEARCH
04/01/91 13:22:00 + 21:55
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #1644
CALI: B0401LC07 # 3

BASE M/Z: 95
RIC: 18623.



C6.H4.BR.F CS10 BROMOFLUOROBENZENE (SURROGATE)



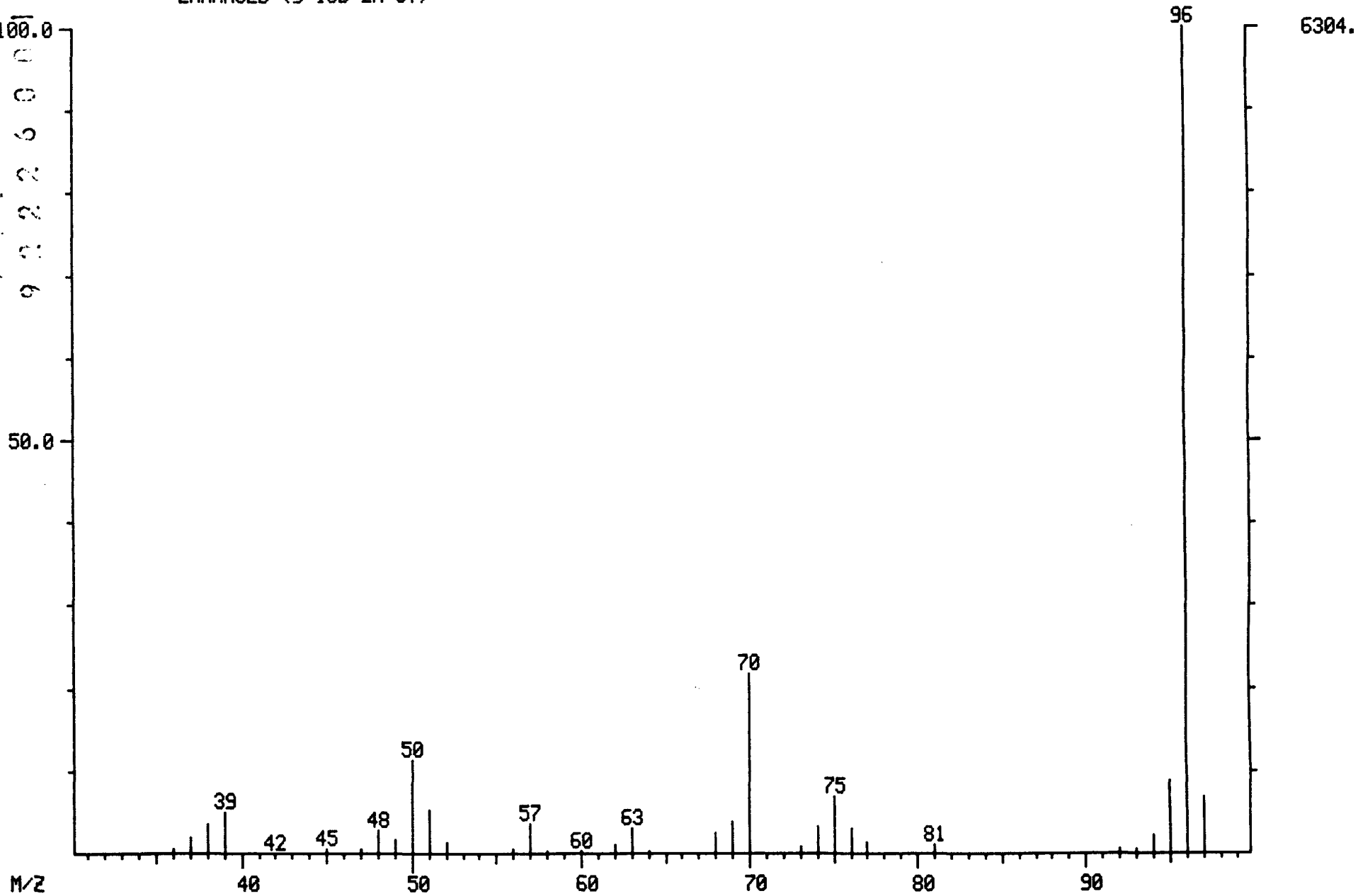
000379

NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/01/91 13:22:00 + 5:54
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 #442
CALI: B0401LC07 #3

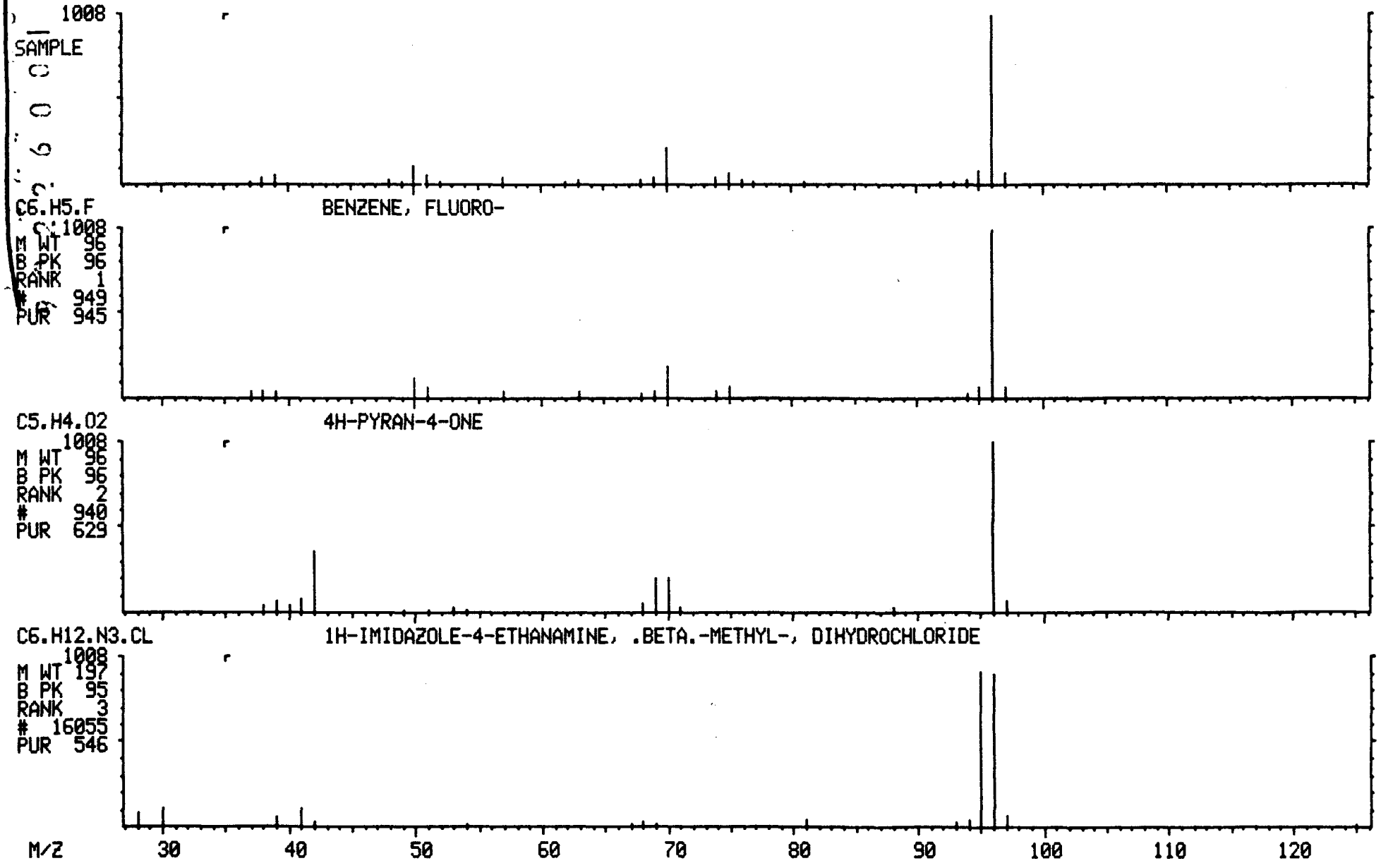
BASE M/Z: 96
RIC: 13152.



LIBRARY SEARCH
04/01/91 13:22:00 + 5:54
SAMPLE: 90904, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC07 # 442
CALI: B0401LC07 # 3

BASE M/Z: 96
RIC: 12863.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190905

Sample wt/vol: 2.0 (g/mL) G Lab File ID: B0402LC10

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 64 Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	69	U
74-83-9	Bromomethane	69	U
75-01-4	Vinyl Chloride	69	U
75-00-3	Chloroethane	69	U
75-09-2	Methylene Chloride	18	J
67-64-1	Acetone	410	
75-15-0	Carbon Disulfide	35	U
75-35-4	1,1-Dichloroethene	35	U
75-34-3	1,1-Dichloroethane	35	U
540-59-0	1,2-Dichloroethene (total)	35	U
67-66-3	Chloroform	35	U
107-06-2	1,2-Dichloroethane	35	U
78-93-3	2-Butanone	140	
71-55-6	1,1,1-Trichloroethane	35	U
56-23-5	Carbon Tetrachloride	35	U
108-05-4	Vinyl Acetate	69	U
75-27-4	Bromodichloromethane	35	U
78-87-5	1,2-Dichloropropane	35	U
10061-01-5	cis-1,3-Dichloropropene	35	U
79-01-6	Trichloroethene	35	U
124-48-1	Dibromochloromethane	35	U
79-00-5	1,1,2-Trichloroethane	35	U
71-43-2	Benzene	35	U
10061-02-6	trans-1,3-Dichloropropene	35	U
75-25-2	Bromoform	35	U
108-10-1	4-Methyl-2-Pentanone	69	U
591-78-6	2-Hexanone	69	U
127-18-4	Tetrachloroethene	35	U
79-34-5	1,1,2,2-Tetrachloroethane	35	U
108-88-3	Toluene	35	U
108-90-7	Chlorobenzene	120	
100-41-4	Ethylbenzene	35	U
100-42-5	Styrene	35	U
1330-20-7	Xylene (total)	35	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X107

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190905

Sample wt/vol: 2.0 (g/mL) G Lab File ID: B0402LC10

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 64 Date Analyzed: 04/02/91

Column (pack/cap) WIDE Dilution Factor: 1.0

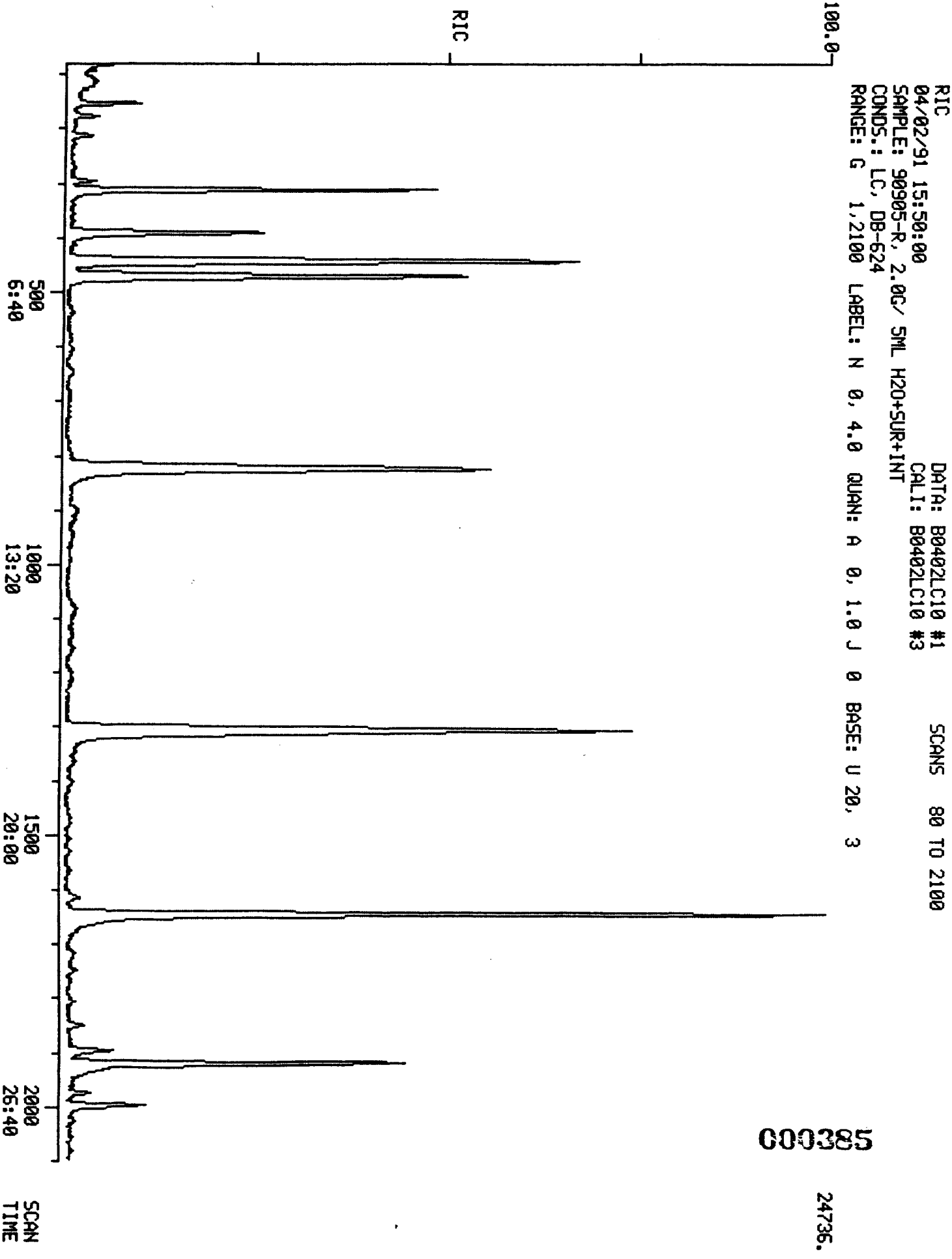
Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000384

TCA FINISHED, 15 FOUND
FINISHED AT: 4/02/91 19:16:13



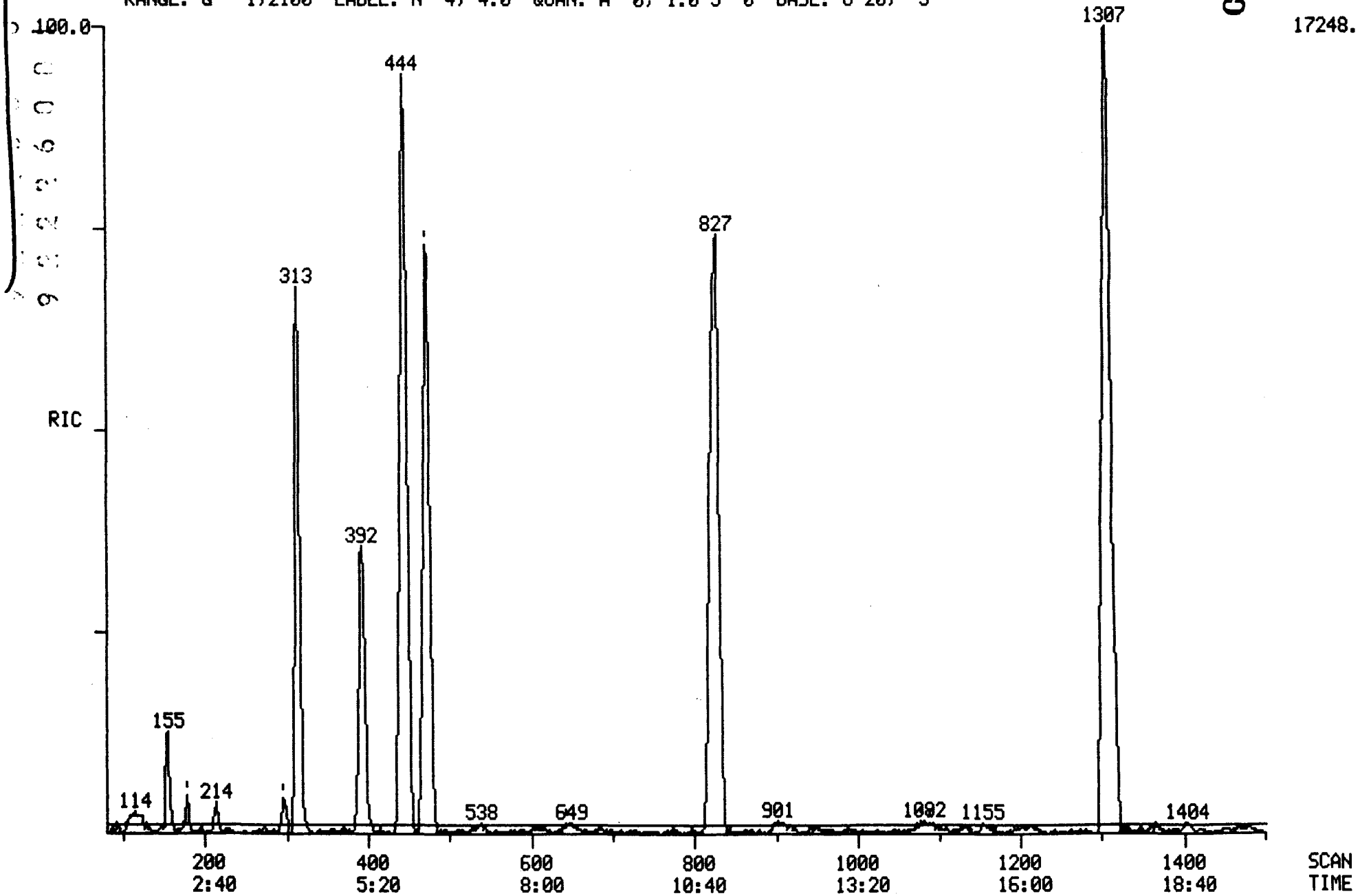
000385

X107

RIC
04/02/91 15:50:00
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC10 #1
CALI: B0402LC10 #3

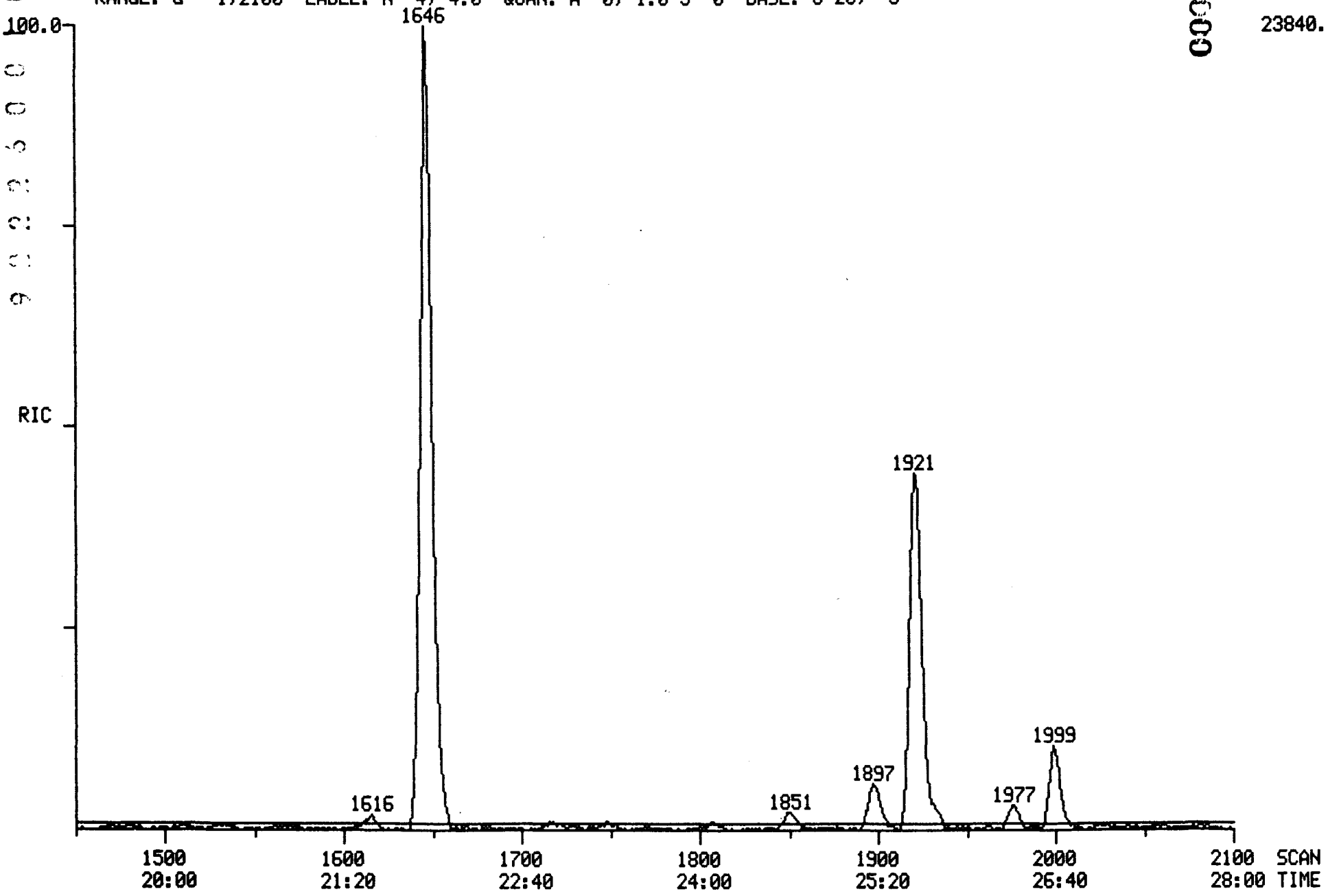
SCANS 80 TO 1500



RIC
04/02/91 15:50:00
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC10 #1
CALI: B0402LC10 #3

SCANS 1450 TO 2100



23840.

4/2/91 15:50:56 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 15:50:00 + 0:01
Sample: 90905-R, 2.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0402LC10
Free sectors: 4479
Instrument: 5100
Analyst: LC

Acquiring
Scan: 1 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 31 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.200
Samp int (ms): 0.200

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

000388

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

4/2/91 16:18:58
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	17.4	1680.0	1.0	34296.	16.	20.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 16:19:57
DATA FILE: B0402LC10
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	1	151	CLSRT1/CLSTC1
1	1	1	0	13	3	1	7	CLSRT2/CLSTC2
1	1	1	0	16	9	36	274	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 15 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	312	313	313	.	1	972	.	128	313	.	1
2	CS	2	-100	102	.	.	.	.	.	50	.	.	.
3	CS	3	-109	111	.	.	.	.	.	94	.	.	.
4	CS	4	-102	104	.	.	.	.	.	62	.	.	.
5	CS	5	-111	113	.	.	.	.	.	64	.	.	.
6	CS	6	176	178	179	1	1	993	.	84	179	.	1
7	CS	7	154	156	155	-1	1	958	.	43	155	.	1
8	CS	8	-156	158	.	.	.	.	.	76	157	.	1
9	CS	9	-145	147	.	.	.	.	.	96	.	.	.
10	CS	10	-227	229	.	.	.	.	.	63	.	.	.
11	CS	12	-327	328	.	.	.	.	.	83	329	.	1
12	CS	13	-338	339	.	.	.	.	.	97	.	.	.
13	CS	14	-117	119	.	.	.	.	.	101	118	.	1
14	CS	15	-193	195	.	.	.	.	.	96	.	.	.
15	CS	16	-285	286	.	.	.	.	.	96	.	.	.
16	CS	17	470	472	472	.	1	998	.	114	472	.	1
17	CS	18	-403	404	.	.	.	.	.	62	.	.	.
18	CS	19	296	296	296	.	1	977	.	72	296	.	1
19	CS	20	-359	360	.	.	.	.	.	117	.	.	.
20	CS	21	-238	237	.	.	.	.	.	43	.	.	.
21	CS	22	-627	631	.	.	.	.	.	83	.	.	.
22	CS	23	-554	557	.	.	.	.	.	63	.	.	.
23	CS	24	-741	746	.	.	.	.	.	75	.	.	.
24	CS	25	-506	508	.	.	.	.	.	130	.	.	.
25	CS	27	-390	391	.	.	.	.	.	78	393	.	1
26	CS	28	-728	733	.	.	.	.	.	106	.	.	.
27	CS	29	391	392	392	.	1	968	.	65	392	.	1
28	CS	43	-1467	1480	.	.	.	.	.	173	.	.	.
29	CS	30	1304	1306	1306	.	1	994	.	117	1306	.	1
30	CS	26	-1126	1130	.	.	.	.	.	129	.	.	.
31	CS	31	-1006	1011	.	.	.	.	.	97	1007	.	1
32	CS	32	-953	959	.	.	.	.	.	75	.	.	.
33	CS	33	-1133	1137	.	.	.	.	.	43	.	.	.
34	CS	34	-842	849	854	5	1	808	.	43	856	2	2
35	CS	35	-1006	1011	.	.	.	.	.	164	.	.	.
36	CS	36	-1721	1719	.	.	.	.	.	83	1723	.	2
37	CS	37	837	844	844	.	2	955	.	91	843	-1	1
38	CS	38	-1311	1313	1313	.	2	994	.	112	1314	1	1
39	CS	39	1363	1365	1363	-2	1	988	.	106	1363	.	2
40	CS	40	-1519	1519	.	.	.	.	.	104	.	.	.
41	CS	41	1401	1402	1401	-1	3	958	.	106	1405	4	2
42	CS	42	1509	1509	1510	1	1	927	.	106	1508	-2	1
43	CS	44	1645	1644	1646	2	1	993	.	95	1646	.	1
44	CS	45	823	830	826	-4	3	995	.	98	827	1	1

Quantitation Report File: B0402LC10

Data: B0402LC10.TI
04/02/91 15:50:00
Sample: 90905-R, 2.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

MG/KG

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	313	4:10	1	1.000	A BB	9572.	50.000 UG/G	9.07
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	179	2:23	1	0.572	A BB	747.	2.557 UG/G	0.46
7	43	155	2:04	1	0.495	A BB	6493.	59.317 UG/G	10.77
8	76	157	2:06	1	0.502	A BB	109.	~~0.118 UG~~/G	0.02
9	NOT FOUND								
10	NOT FOUND								
11	83	329	4:23	1	1.051	A BB	364.	~~0.626 UG~~/G	0.11
12	NOT FOUND								
13	101	118	1:34	1	0.377	A BB	11.	~~0.095 UG~~/G	0.02
14	NOT FOUND								
15	NOT FOUND								
16	114	472	6:18	16	1.000	A BB	47385.	50.000 UG/G	9.07
17	NOT FOUND								
18	72	296	3:57	16	0.627	A BB	888.	19.747 UG/G	3.58
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	78	393	5:14	16	0.833	A BB	703.	~~0.687 UG~~/G	0.12
26	NOT FOUND								
27	65	392	5:14	16	0.831	A BB	15000.	102.002 %	18.51
28	NOT FOUND								
29	117	1306	17:25	29	1.000	A BB	51298.	50.000 UG/G	9.07
30	NOT FOUND								
31	97	1007	13:26	29	0.771	A BB	19.	~~0.047 UG~~/G	0.01
32	NOT FOUND								
33	NOT FOUND								
34	43	856	11:25	29	0.655	A*BB	126.	~~0.285 UG~~/G	0.05
35	NOT FOUND								
36	83	1723	22:58	29	1.319	A*BB	58.	~~0.086~~ UG/G	0.02
37	91	843	11:14	29	0.645	A BB	740.	~~0.559 UG~~/G	0.10
38	112	1314	17:31	29	1.006	A BB	16088.	16.655 UG/G	3.02
39	106	1363	18:10	29	1.044	A*BB	343.	~~0.684 UG~~/G	0.12
40	NOT FOUND								
41	106	1405	18:44	29	1.076	A*BB	388.	~~0.631 UG~~/G	0.11
42	106	1508	20:06	29	1.155	A BB	229.	~~0.362 UG~~/G	0.07
43	95	1646	21:57	29	1.260	A BB	49680.	97.928 %	17.77
44	98	827	11:02	29	0.633	A BB	57985.	98.739 %	17.92

Quantitation Report File: B0402LC10

Data: B0402LC10.TI
04/02/91 15:50:00
Sample: 90905-R, 2.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 2.500
Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

MG/KG

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	313	4:10	1	1.000	A BB	9572.	125.000	UG/G	9.07
2	NOT	FOUND								
3	NOT	FOUND								
4	NOT	FOUND								
5	NOT	FOUND								
6	84	179	2:23	1	0.572	A BB	747.	6.394	UG/G	0.46
7	43	155	2:04	1	0.495	A BB	6493.	148.291	UG/G	10.77
8	76	157	2:06	1	0.502	A BB	109.	0.295	UG/G	0.02
9	NOT	FOUND								
10	NOT	FOUND								
11	83	329	4:23	1	1.051	A BB	364.	1.564	UG/G	0.11
12	NOT	FOUND								
13	101	118	1:34	1	0.377	A BB	11.	0.236	UG/G	0.02
14	NOT	FOUND								
15	NOT	FOUND								
16	114	472	6:18	16	1.000	A BB	47385.	125.000	UG/G	9.07
17	NOT	FOUND								
18	72	296	3:57	16	0.627	A BB	888.	49.368	UG/G	3.58
19	NOT	FOUND								
20	NOT	FOUND								
21	NOT	FOUND								
22	NOT	FOUND								
23	NOT	FOUND								
24	NOT	FOUND								
25	78	393	5:14	16	0.833	A BB	703.	1.716	UG/G	0.12
26	NOT	FOUND								
27	65	392	5:14	16	0.831	A BB	15000.	255.006	%	18.51
28	NOT	FOUND								
29	117	1306	17:25	29	1.000	A BB	51298.	125.000	UG/G	9.07
30	NOT	FOUND								
31	97	1007	13:26	29	0.771	A BB	19.	0.122	UG/G	0.01
32	NOT	FOUND								
33	NOT	FOUND								
34	43	856	11:25	29	0.655	A*BB	126.	0.713	UG/G	0.05
35	NOT	FOUND								
36	83	1723	22:58	29	1.319	A*BB	58.	0.215	UG/G	0.02
37	91	843	11:14	29	0.645	A BB	740.	1.396	UG/G	0.10
38	112	1314	17:31	29	1.006	A BB	16088.	41.636	UG/G	3.02
39	106	1363	18:10	29	1.044	A*BB	343.	1.710	UG/G	0.12
40	NOT	FOUND								
41	106	1405	18:44	29	1.076	A*BB	388.	1.576	UG/G	0.11
42	106	1508	20:06	29	1.155	A BB	229.	0.905	UG/G	0.07
43	95	1646	21:57	29	1.260	A BB	49680.	244.820	%	17.77
44	98	827	11:02	29	0.633	A BB	57985.	246.847	%	17.92

Quantitation Report File: B0402LC10A

Data: B0402LC10.TI
04/02/91 15:50:00
Sample: 90905-R, 2.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

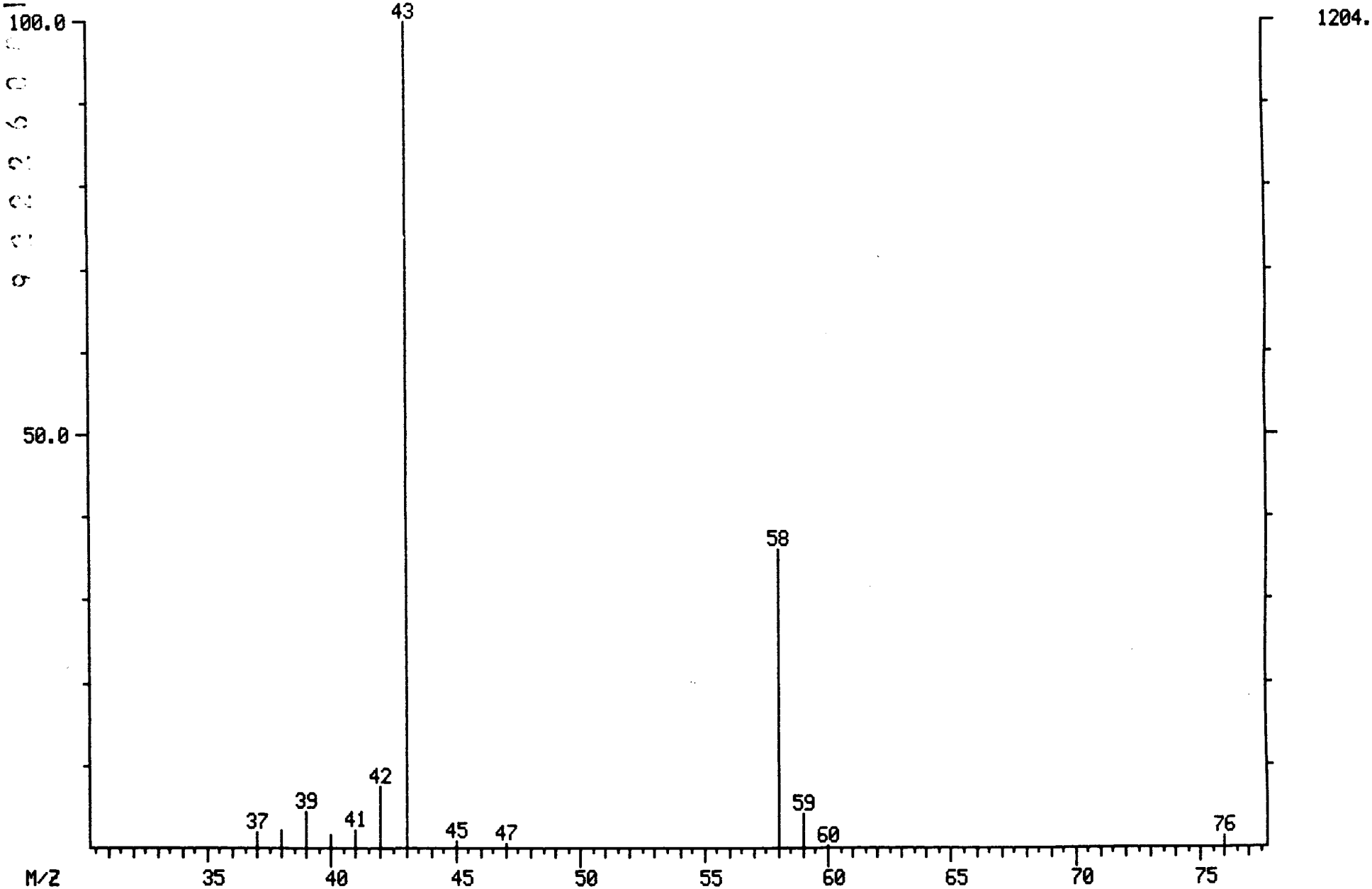
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	444	5:55	1	1.000	A BB	159739.	66.200	*100.

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/02/91 15:50:00 + 2:04
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #155
CALI: B0402LC10 #3

BASE M/Z: 43
RIC: 1968.

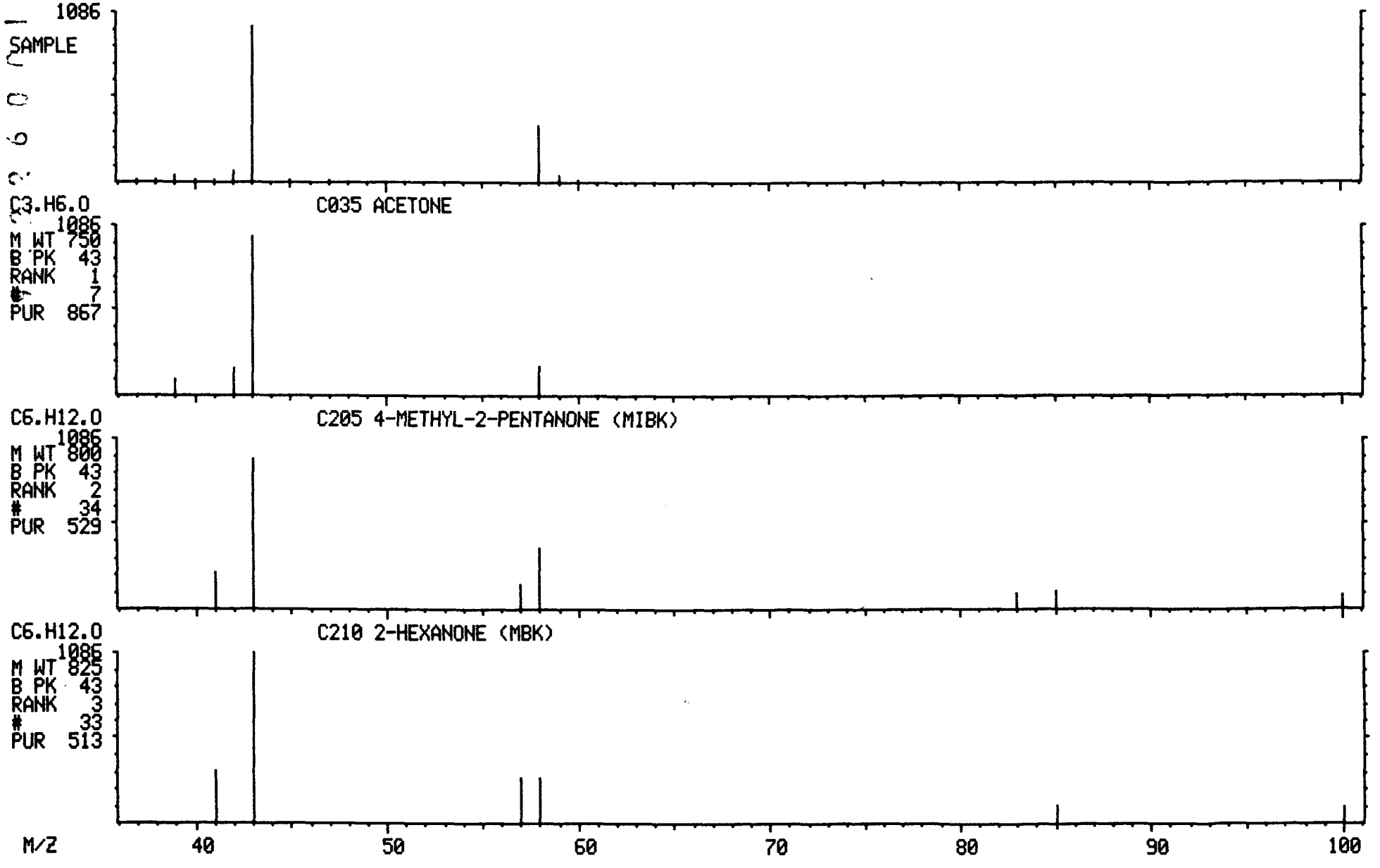


003357

LIBRARY SEARCH
04/02/91 15:50:00 + 2:04
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 # 155
CALI: B0402LC10 # 3

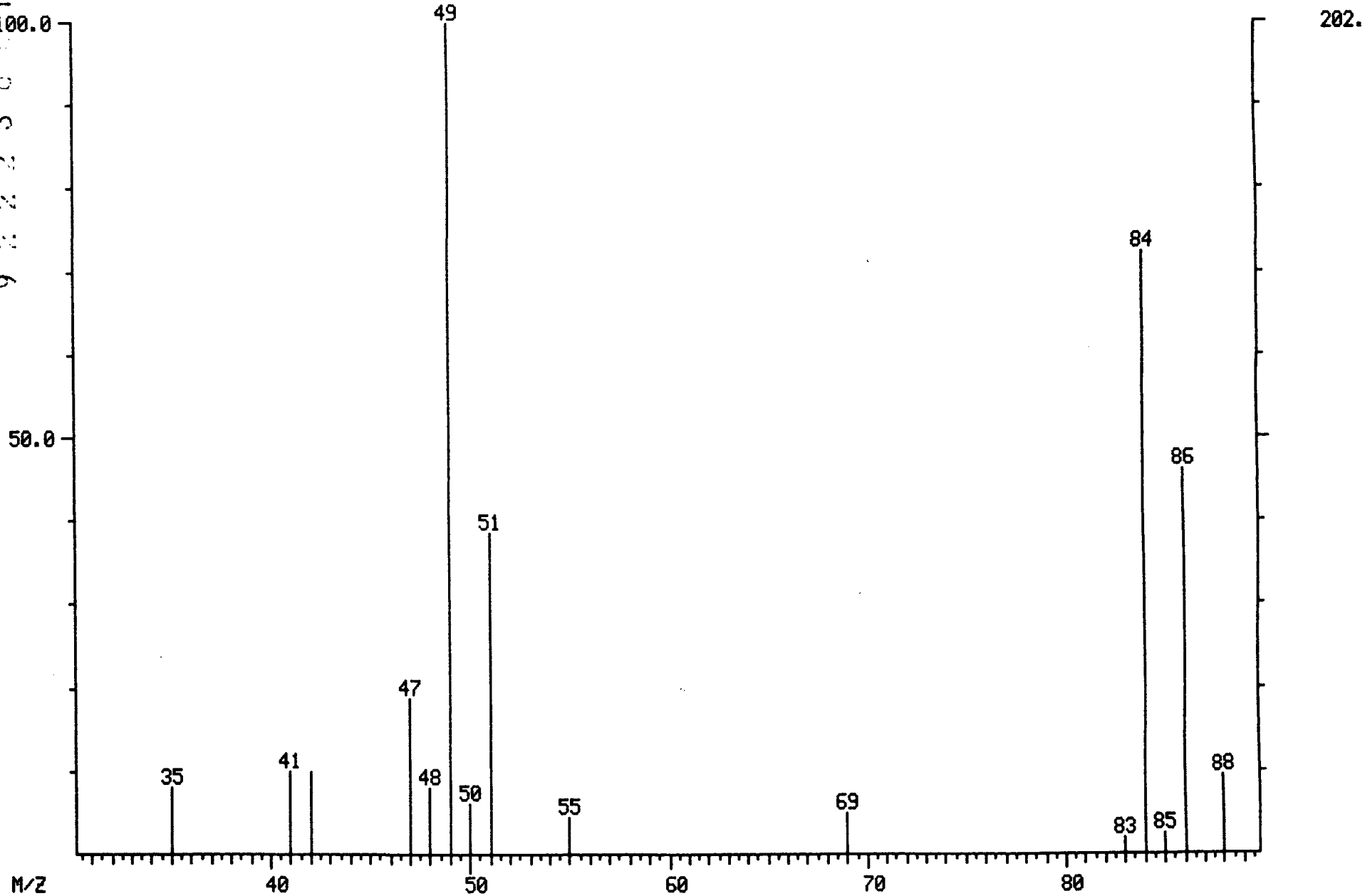
BASE M/Z: 43
RIC: 1967.



MASS SPECTRUM
04/02/91 15:50:00 + 2:23
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #179
CALI: B0402LC10 #3

BASE M/Z: 49
RIC: 688.

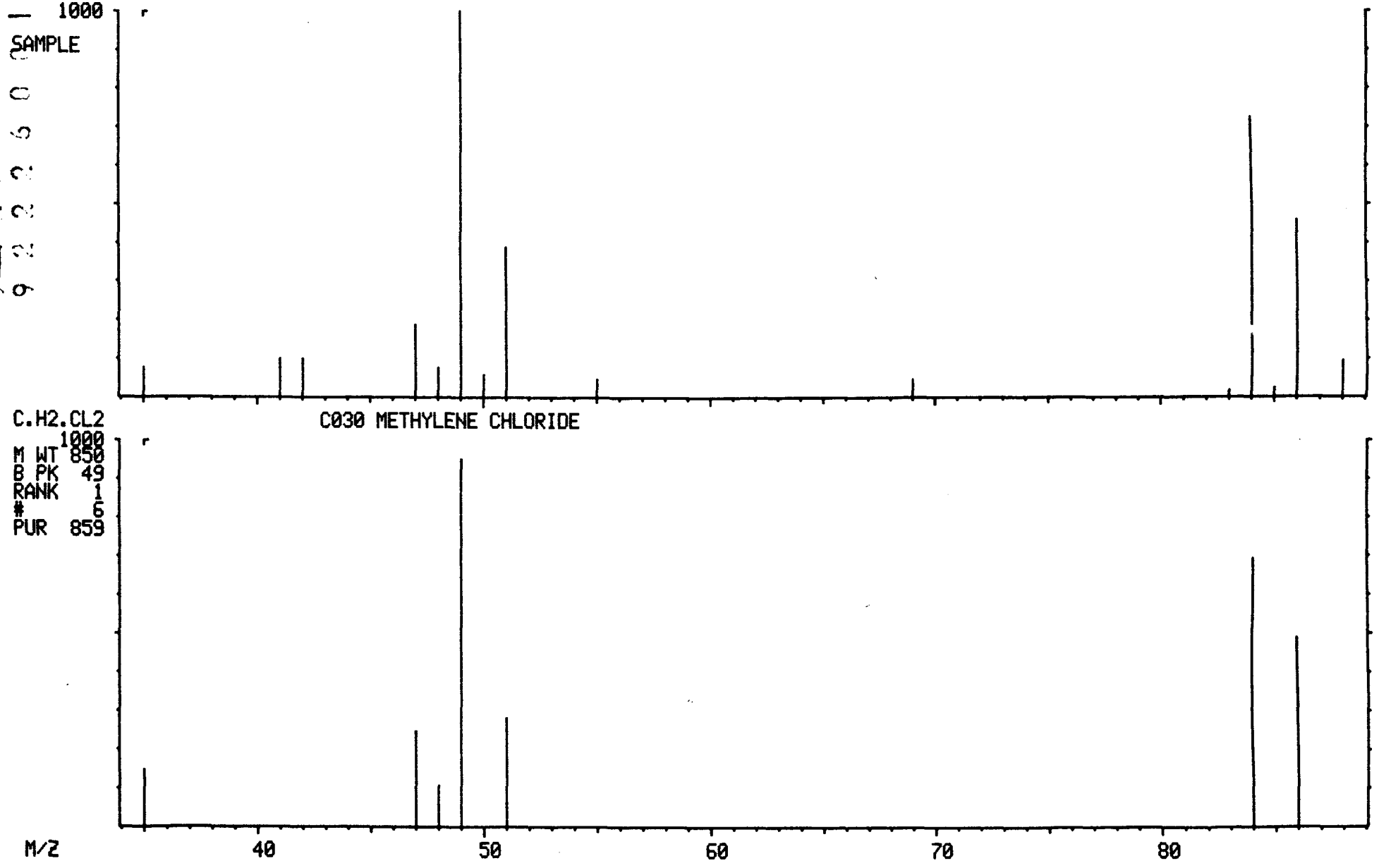


G00299

LIBRARY SEARCH
04/02/91 15:50:00 + 2:23
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 # 179
CALI: B0402LC10 # 3

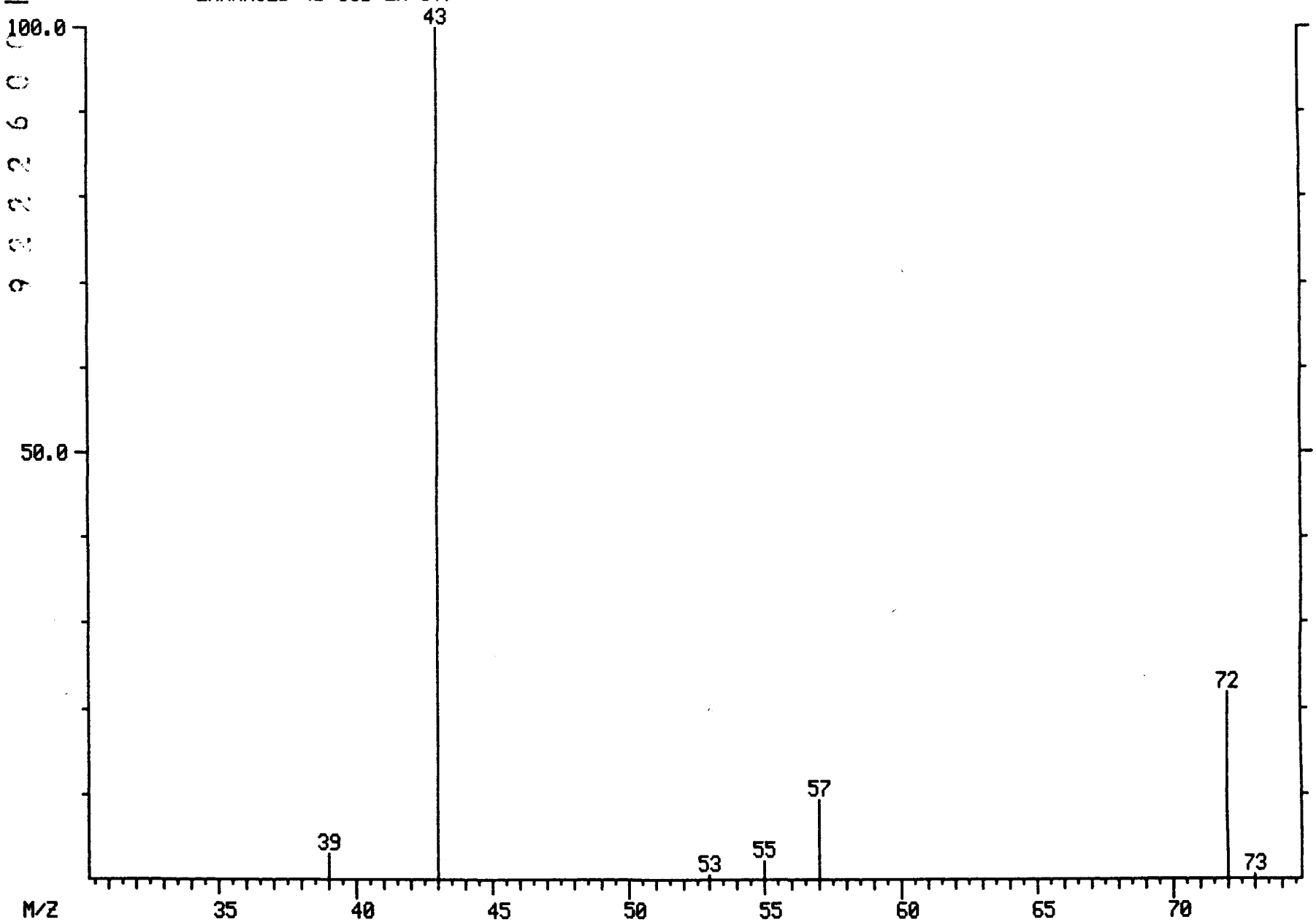
BASE M/Z: 49
RIC: 687.



MASS SPECTRUM
04/02/91 15:50:00 + 3:57
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #296
CALI: B0402LC10 #3

BASE M/Z: 43
RIC: 622.



451.

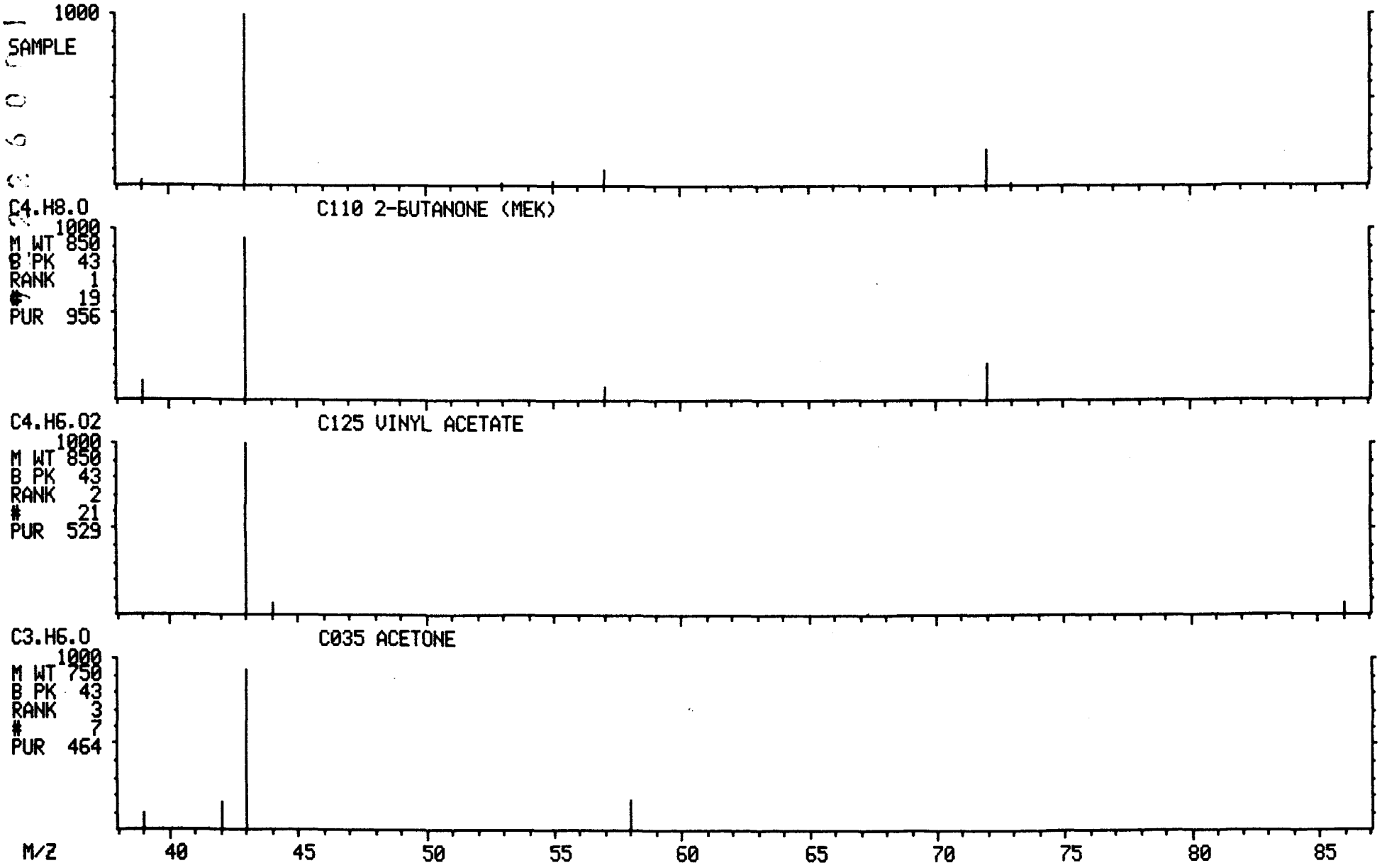
000401

LIBRARY SEARCH
04/02/91 15:50:00 + 3:57
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 # 296
CALI: B0402LC10 # 3

BASE M/Z: 43
RIC: 621.

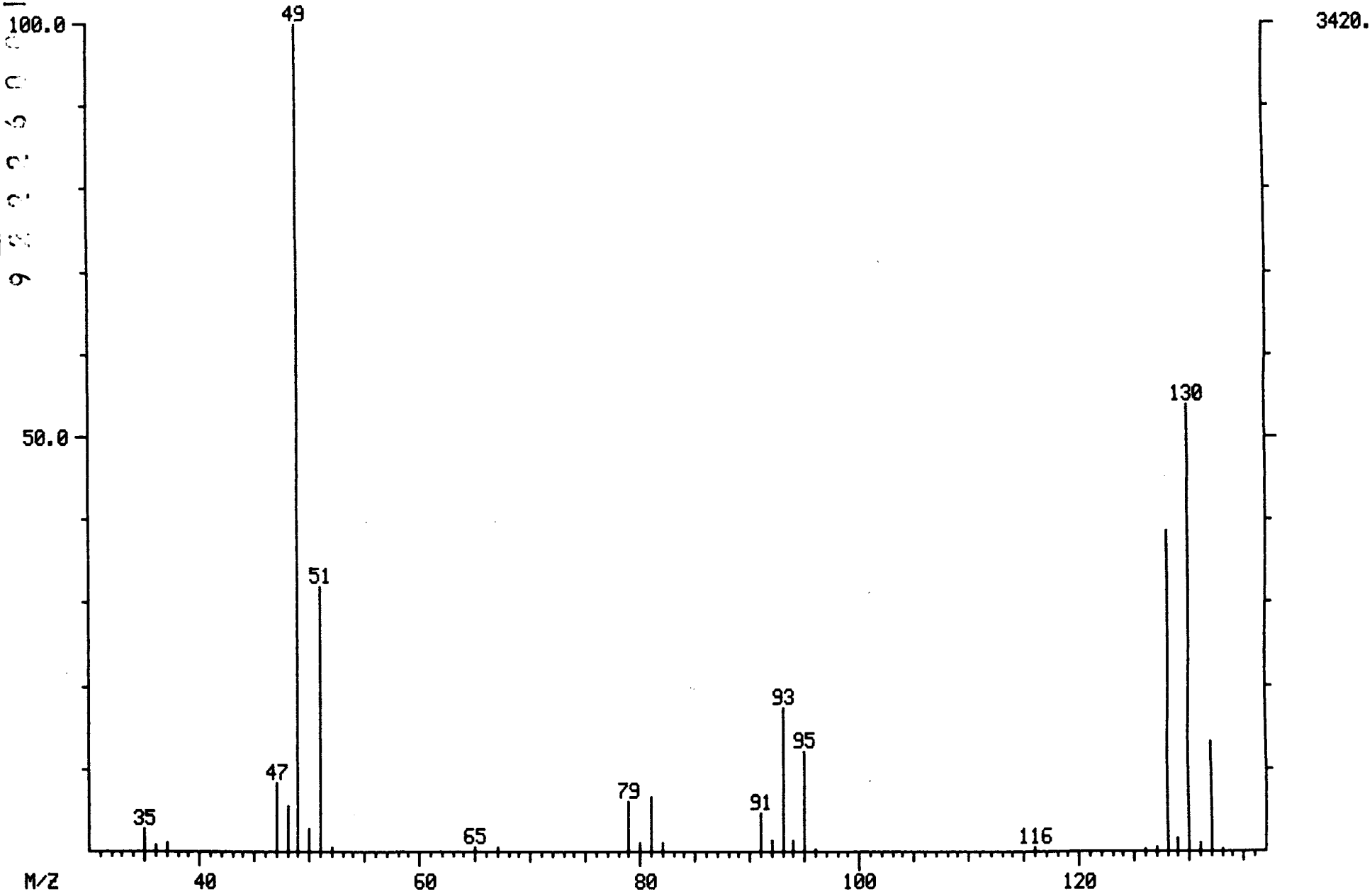
004402



MASS SPECTRUM
04/02/91 15:50:00 + 4:10
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #313
CALI: B0402LC10 #3

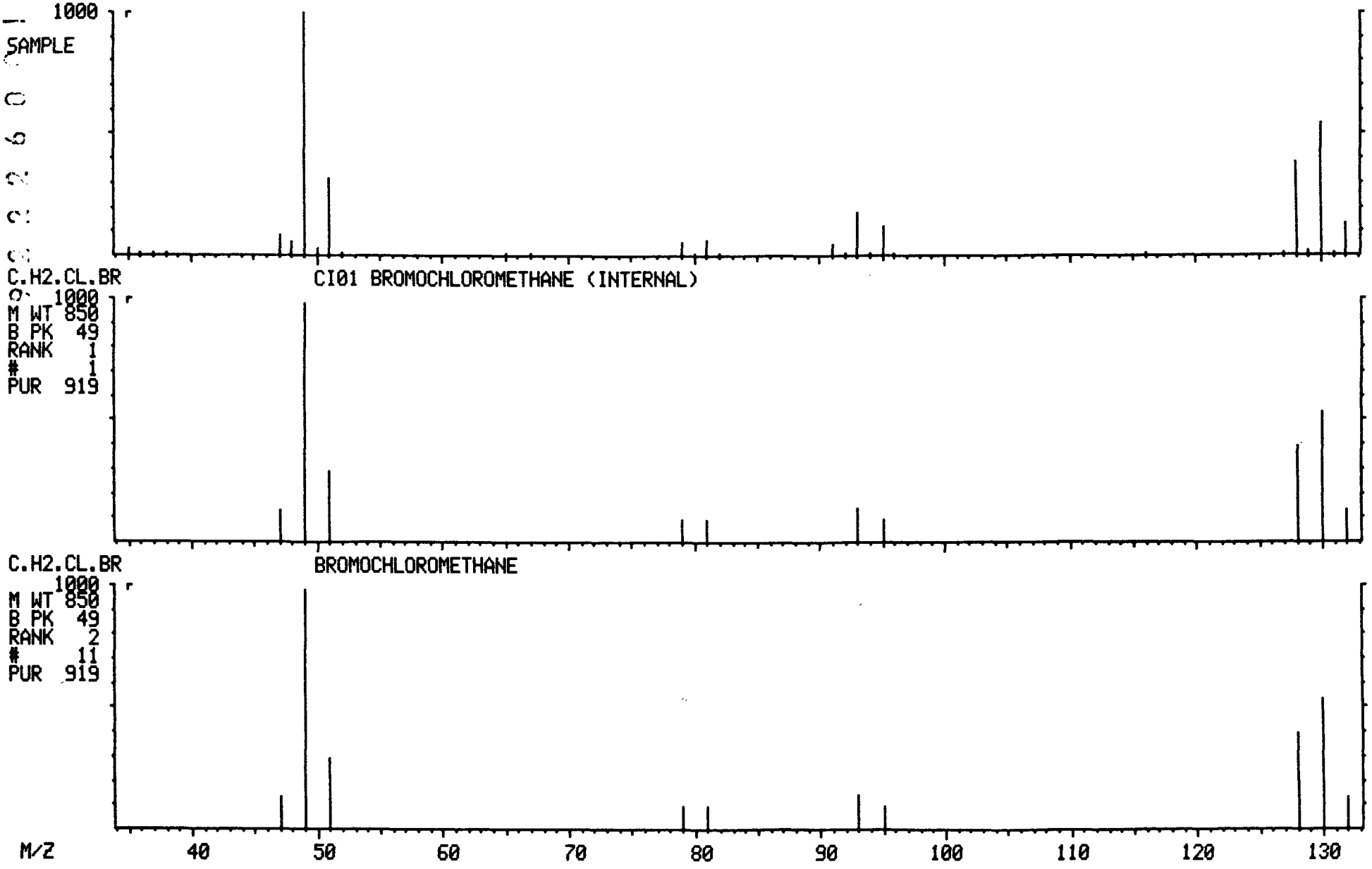
BASE M/Z: 49
RIC: 10848.



LIBRARY SEARCH
04/02/91 15:50:00 + 4:10
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 # 313
CALI: B0402LC10 # 3

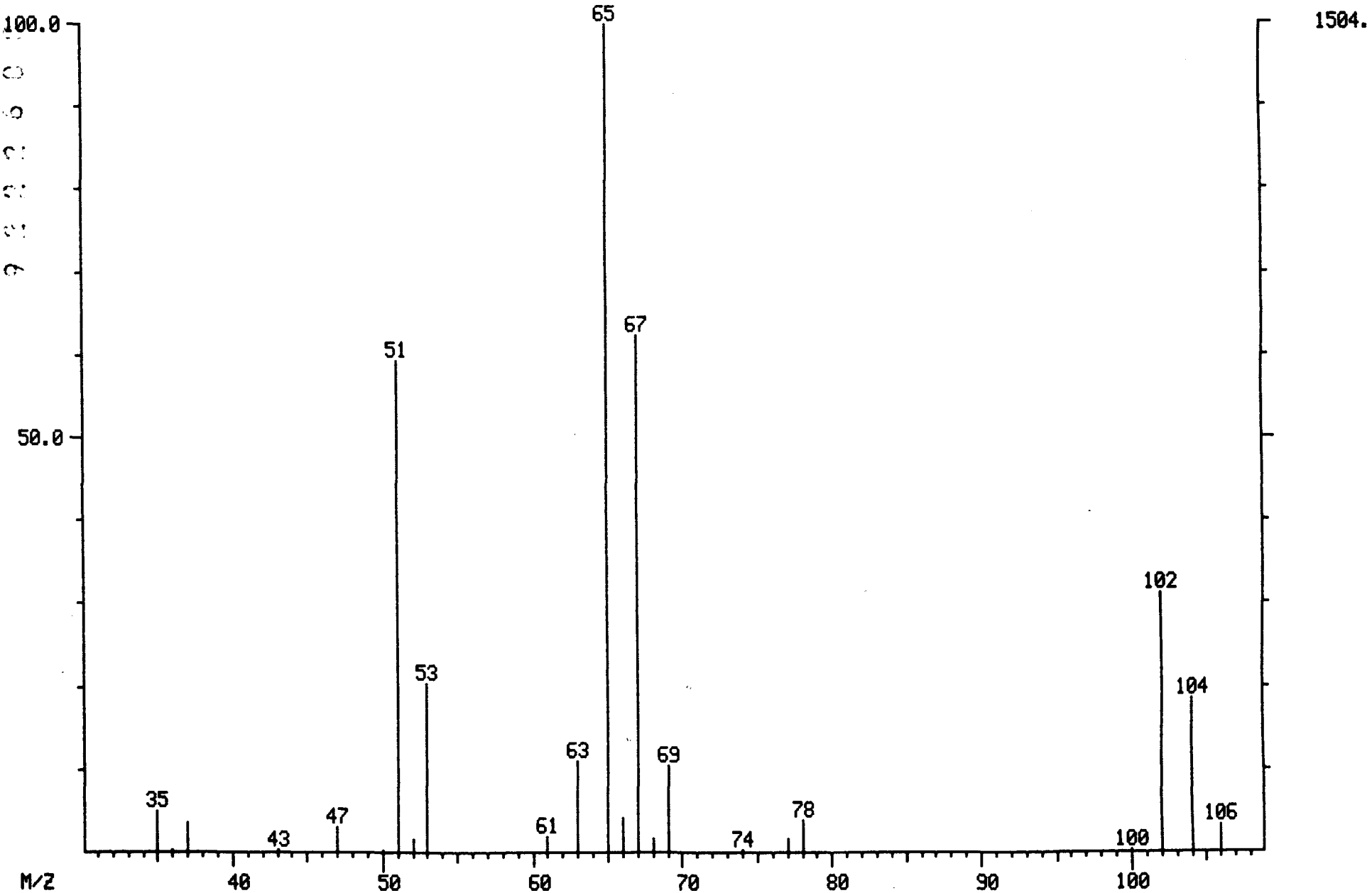
BASE M/Z: 49
RIC: 10847.



MASS SPECTRUM
04/02/91 15:50:00 + 5:14
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #392
CALI: B0402LC10 #3

BASE M/Z: 65
RIC: 5200.



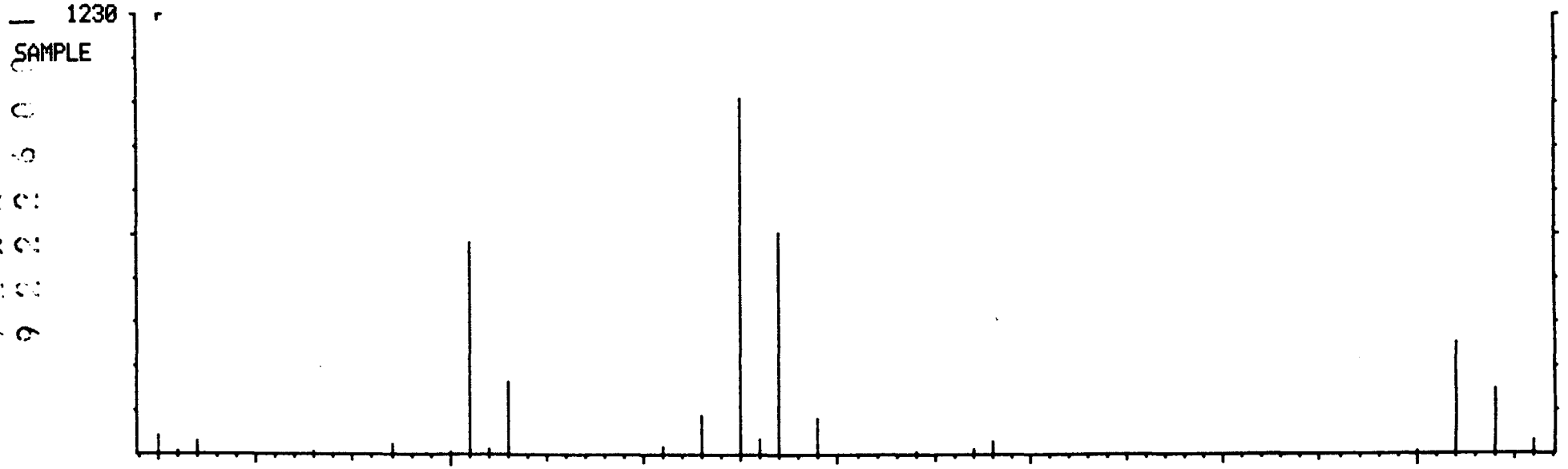
000405

LIBRARY SEARCH
04/02/91 15:50:00 + 5:14
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

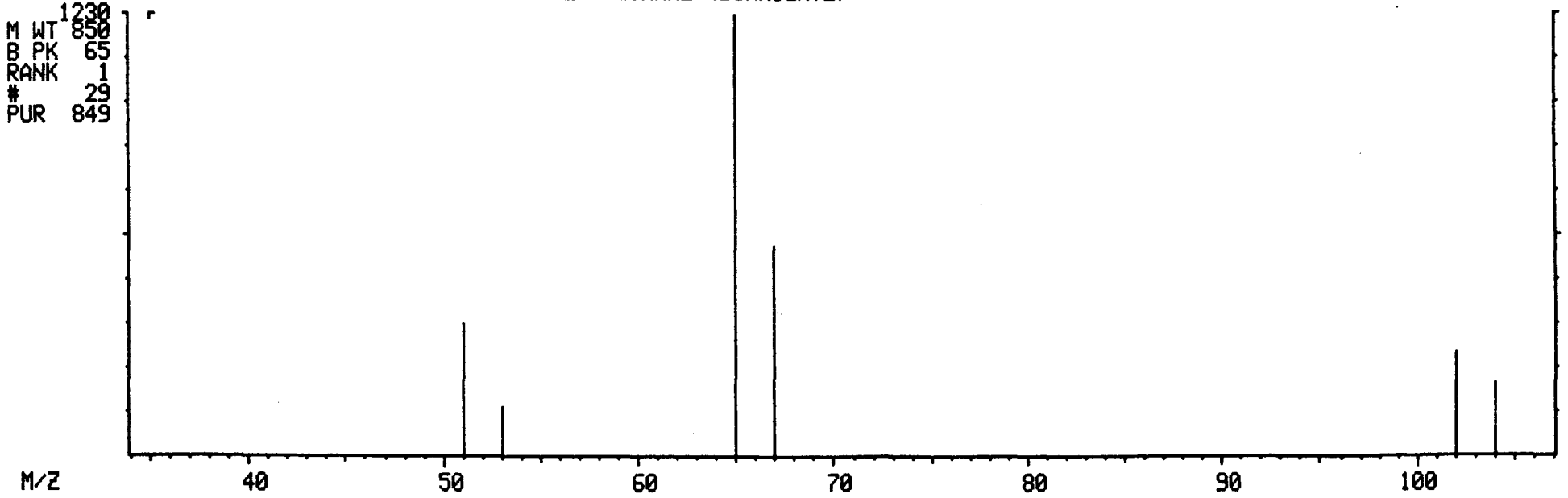
DATA: B0402LC10 # 392
CALI: B0402LC10 # 3

BASE M/Z: 65
RIC: 5175.

000406



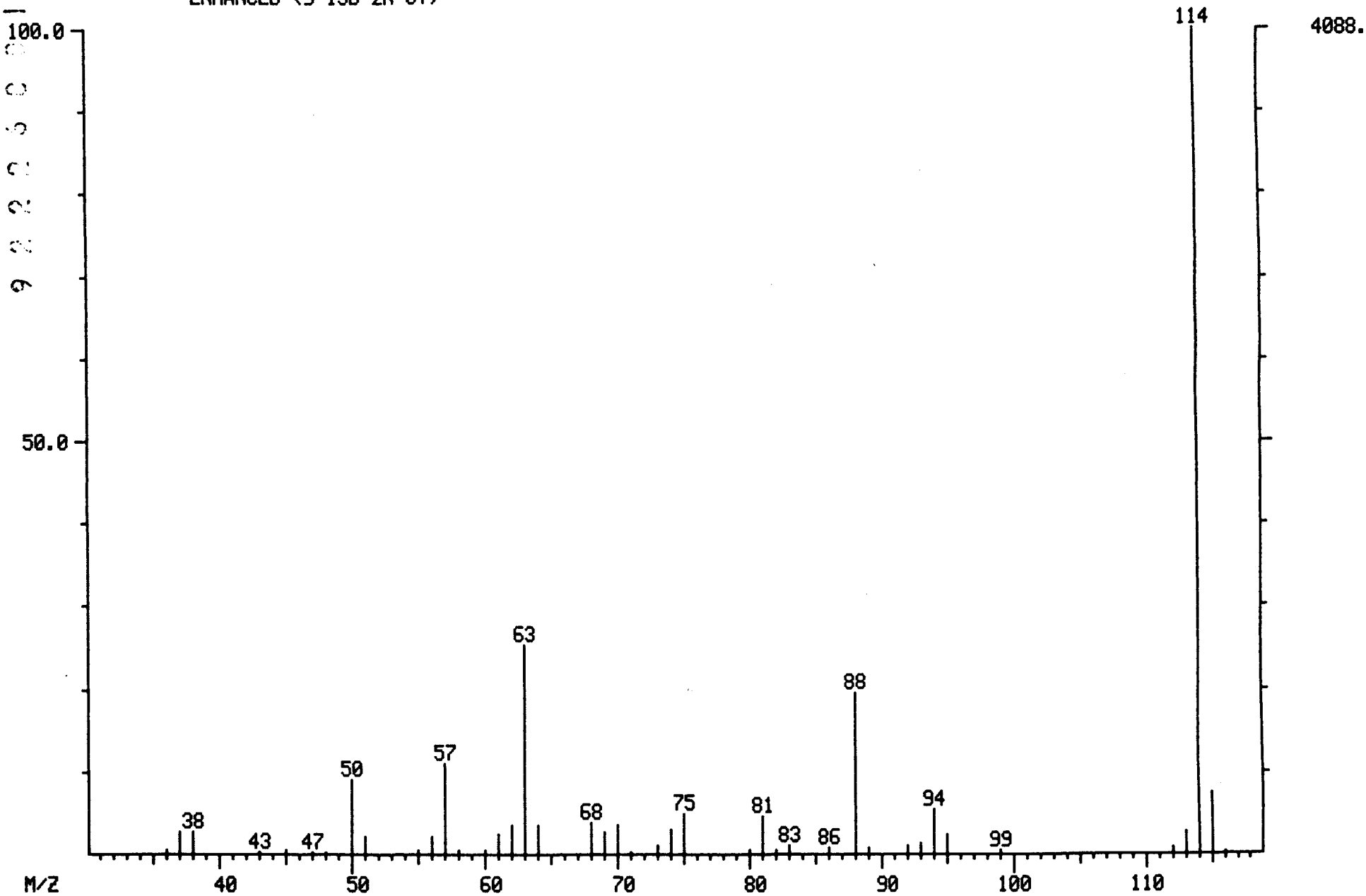
C2.CL2.D4 CS15 D4-1,2-DICHLOROETHANE (SURROGATE)



MASS SPECTRUM
04/02/91 15:50:00 + 6:18
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #472
CALI: B0402LC10 #3

BASE M/Z: 114
RIC: 9776.

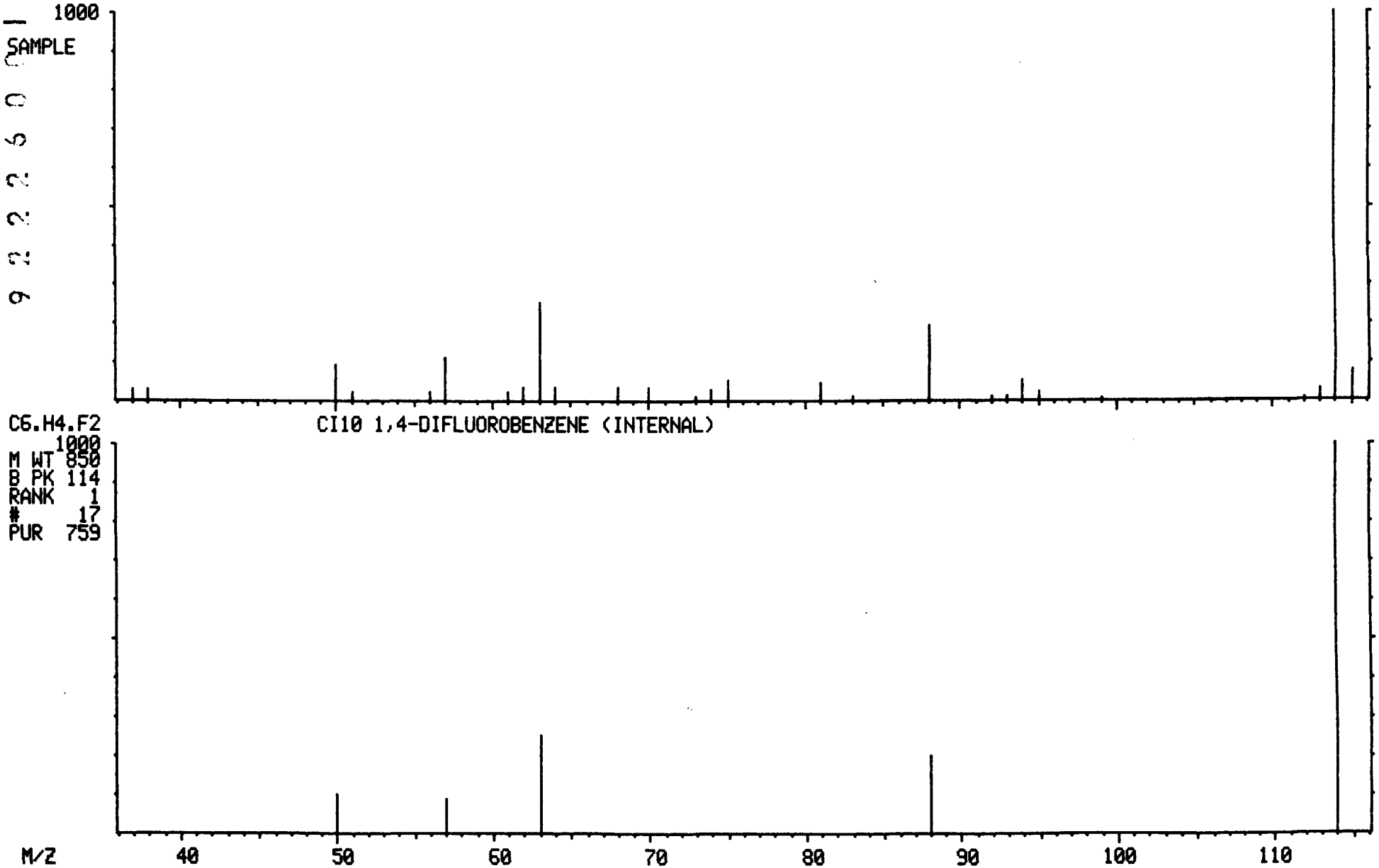


004007

LIBRARY SEARCH
04/02/91 15:50:00 + 6:18
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 # 472
CALI: B0402LC10 # 3

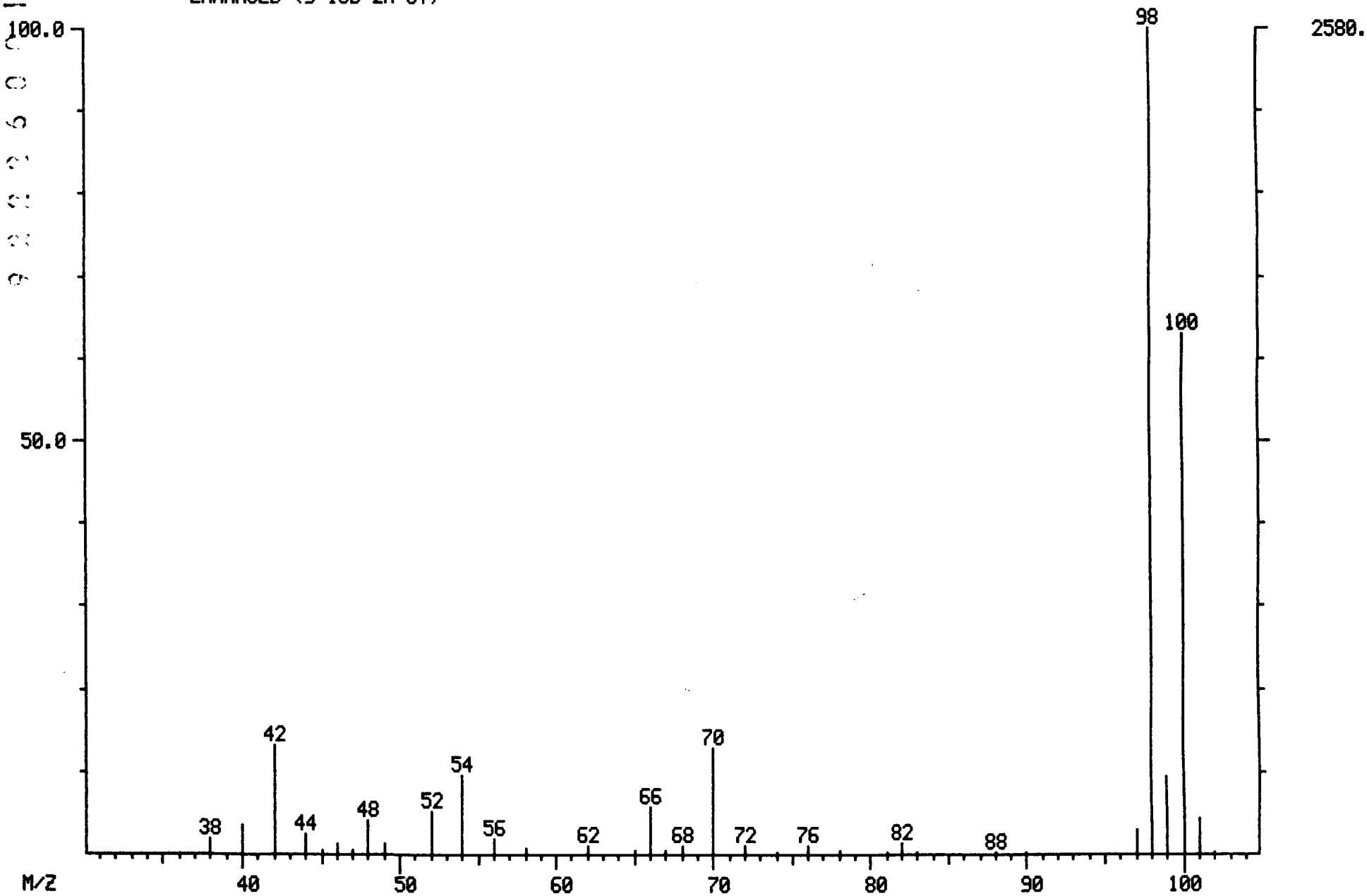
BASE M/Z: 114
RIC: 9375.



MASS SPECTRUM
04/02/91 15:50:00 + 11:02
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #827
CALI: B0402LC10 #3

BASE M/Z: 98
RIC: 6592.



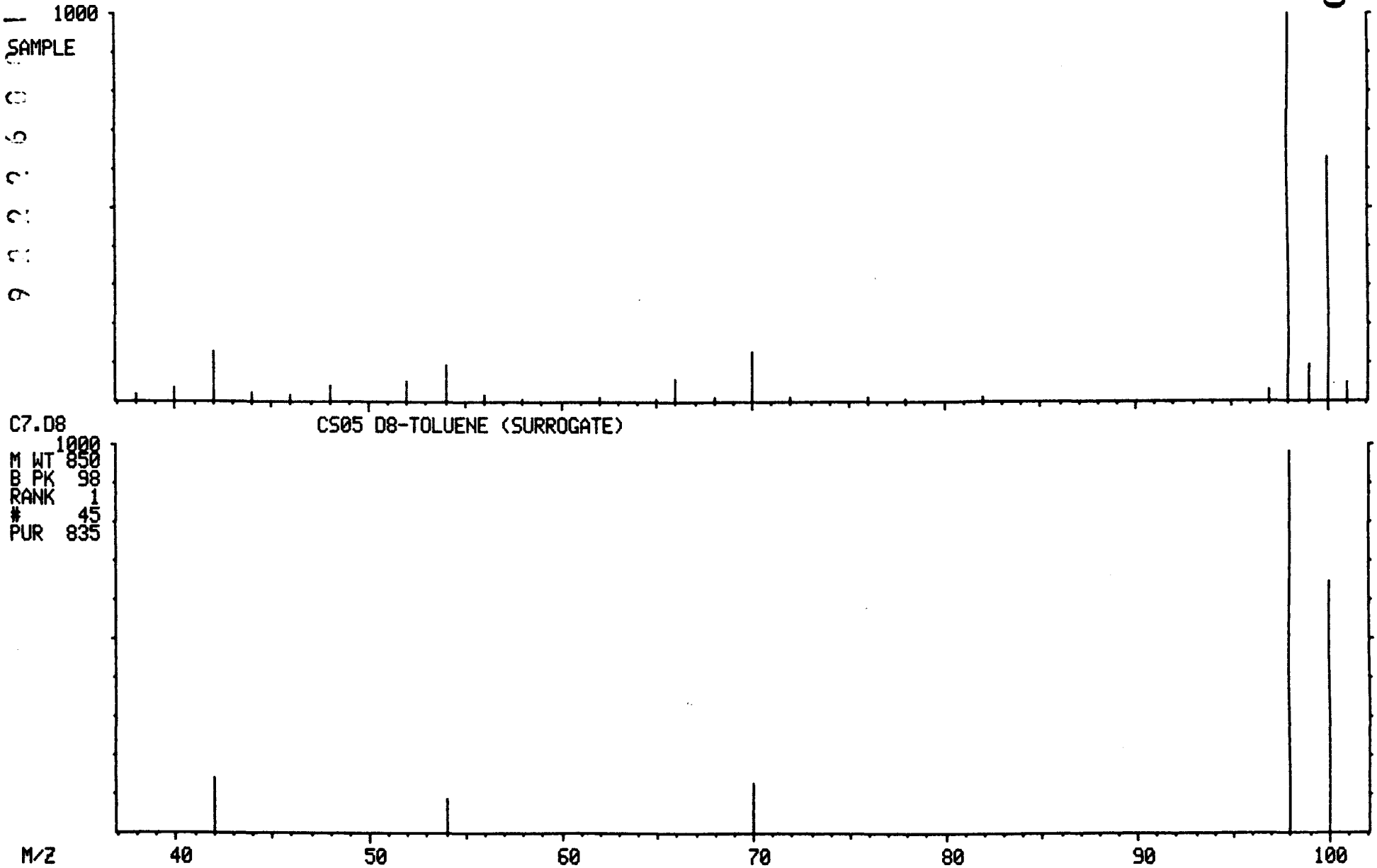
000409

LIBRARY SEARCH
04/02/91 15:50:00 + 11:02
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 # 827
CALI: B0402LC10 # 3

BASE M/Z: 98
RIC: 6463.

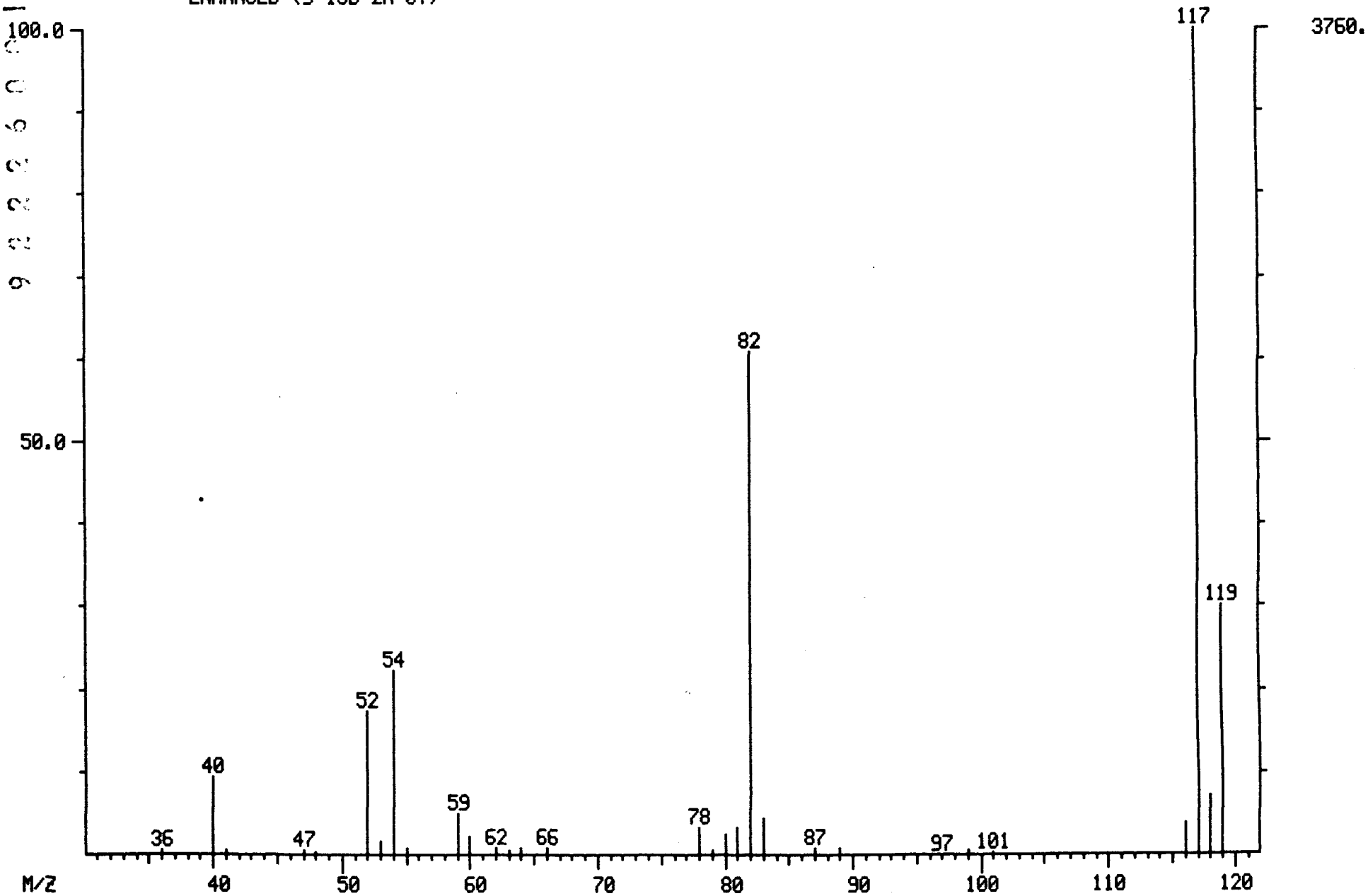
000410



MASS SPECTRUM
04/02/91 15:50:00 + 17:25
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #1306
CALI: B0402LC10 #3

BASE M/Z: 117
RIC: 10656.



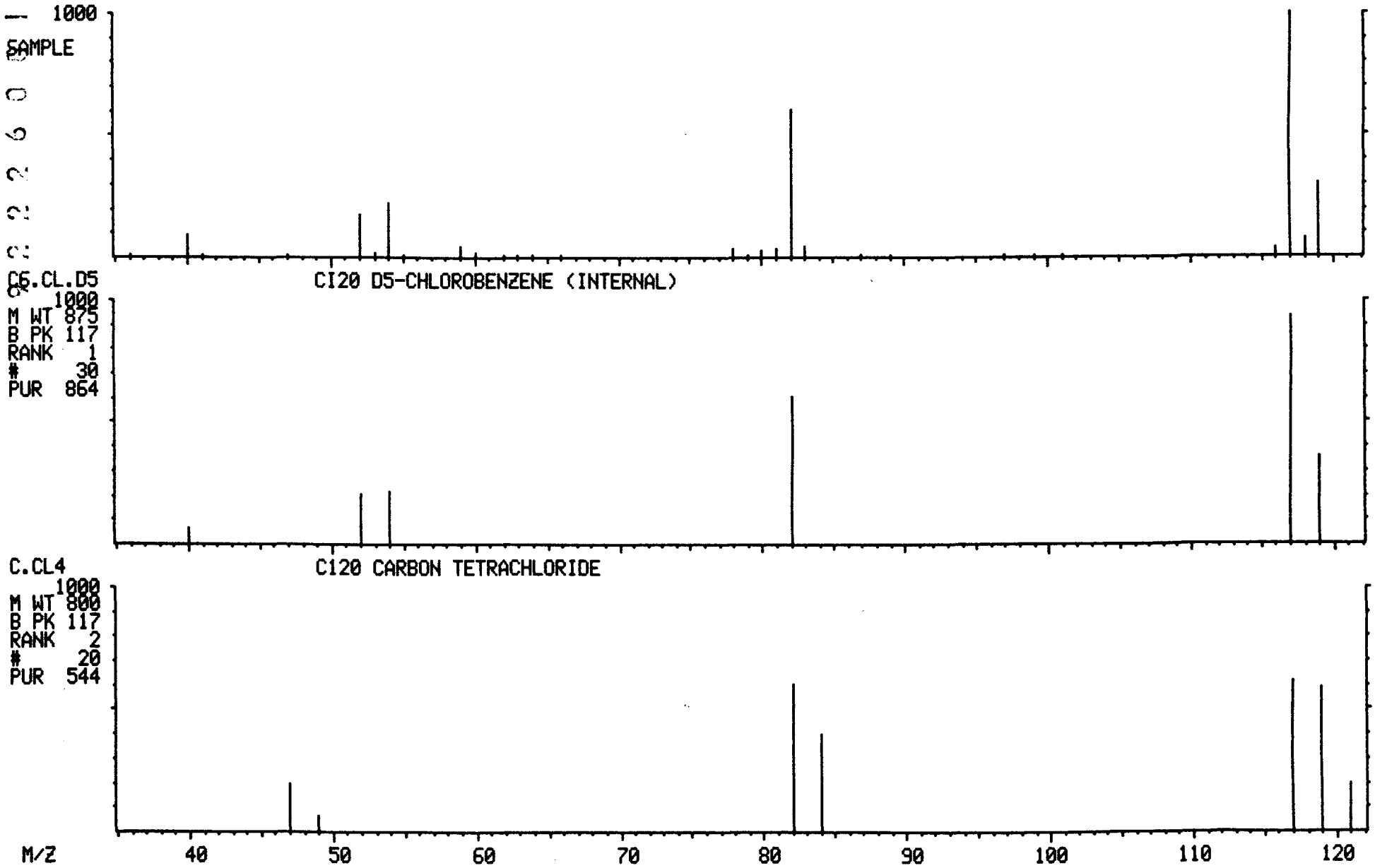
00411

LIBRARY SEARCH
04/02/91 15:50:00 + 17:25
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #1306
CALI: B0402LC10 # 3

BASE M/Z: 117
RIC: 10639.

000412

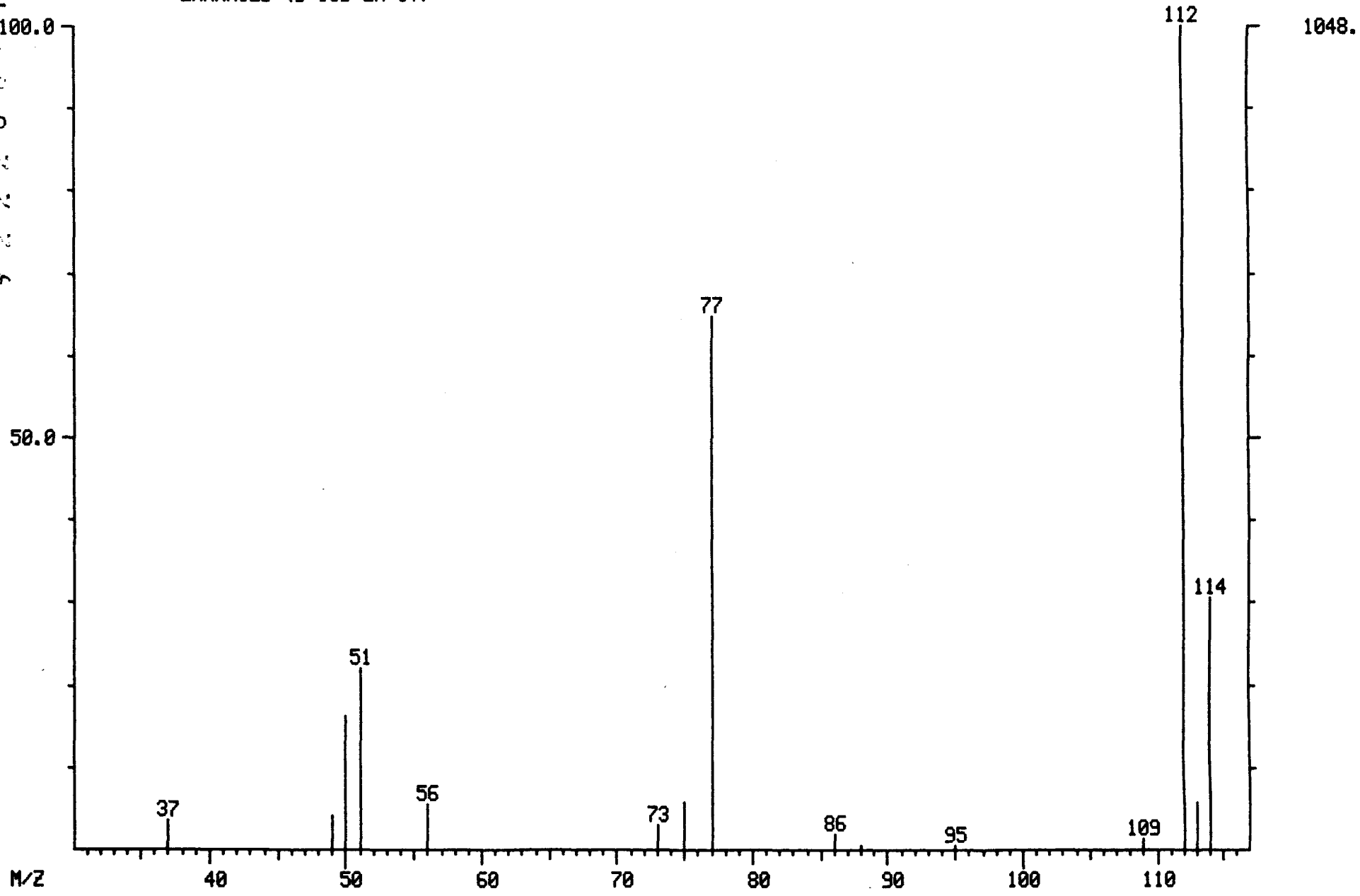


MASS SPECTRUM
04/02/91 15:50:00 + 17:31
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #1314
CALI: B0402LC10 #3

BASE M/Z: 112
RIC: 2800.

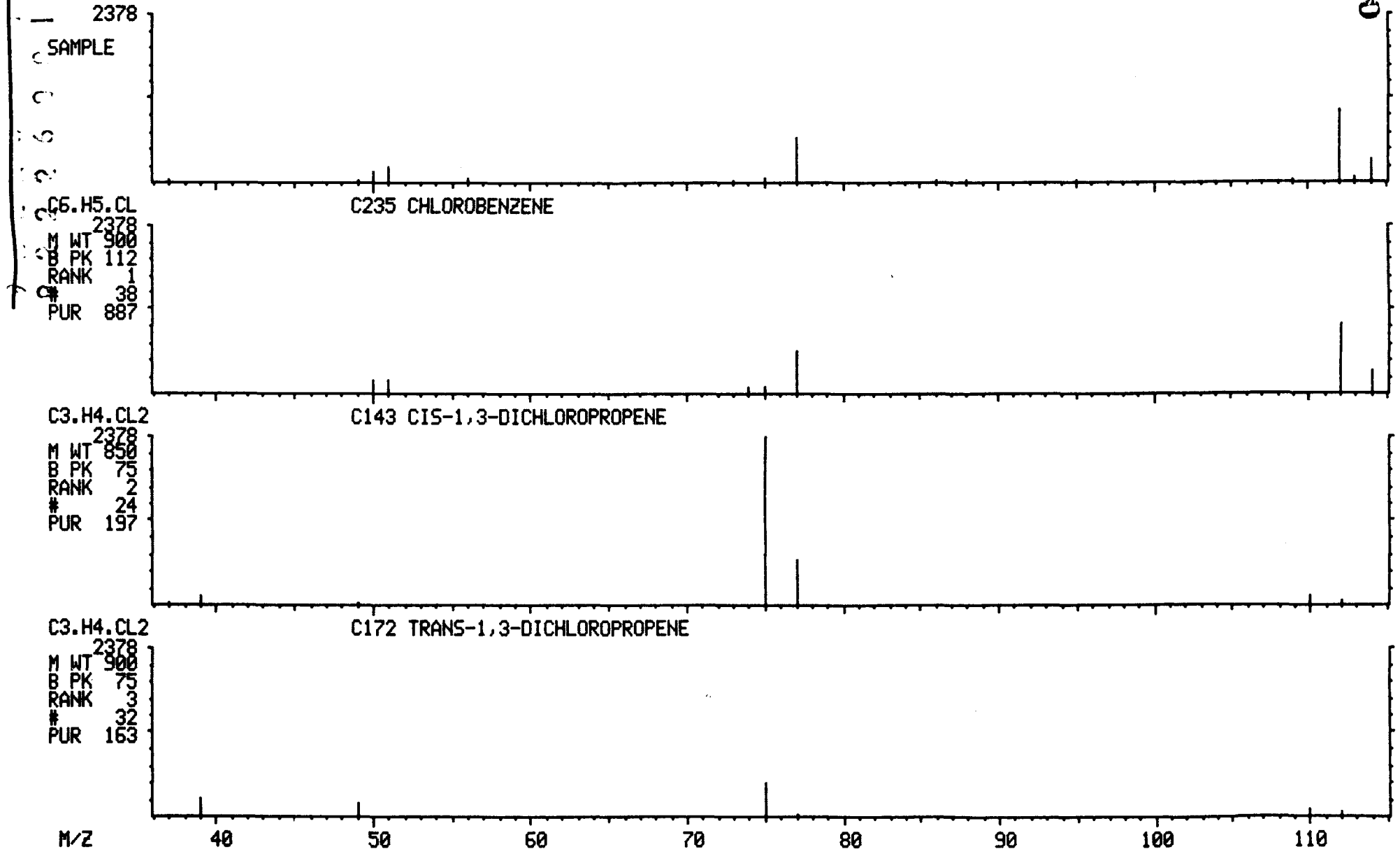
000413



LIBRARY SEARCH
04/02/91 15:50:00 + 17:31
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #1314
CALI: B0402LC10 # 3

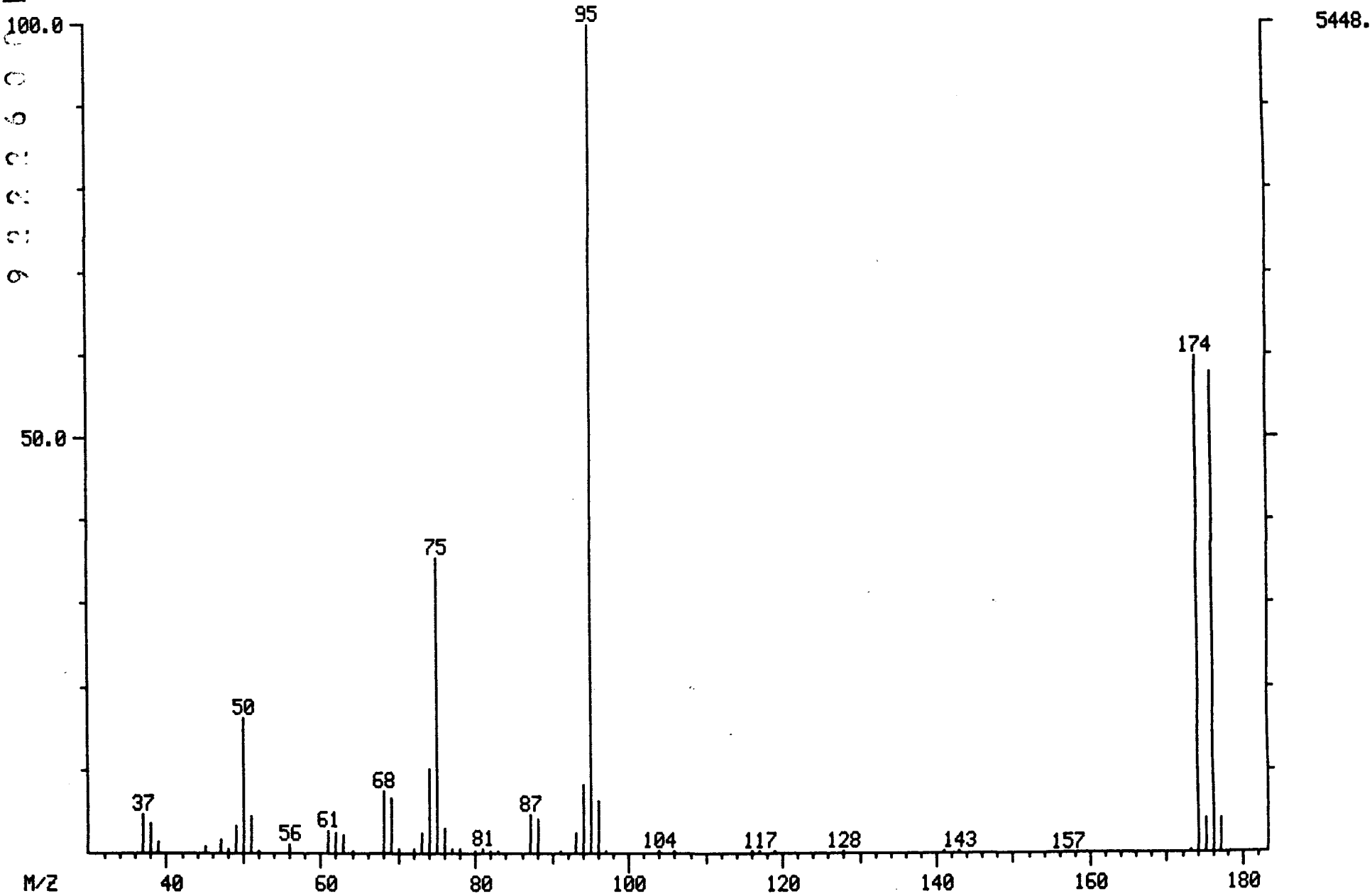
BASE M/Z: 112
RIC: 2799.



MASS SPECTRUM
04/02/91 15:50:00 + 21:57
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #1646
CALI: B0402LC10 #3

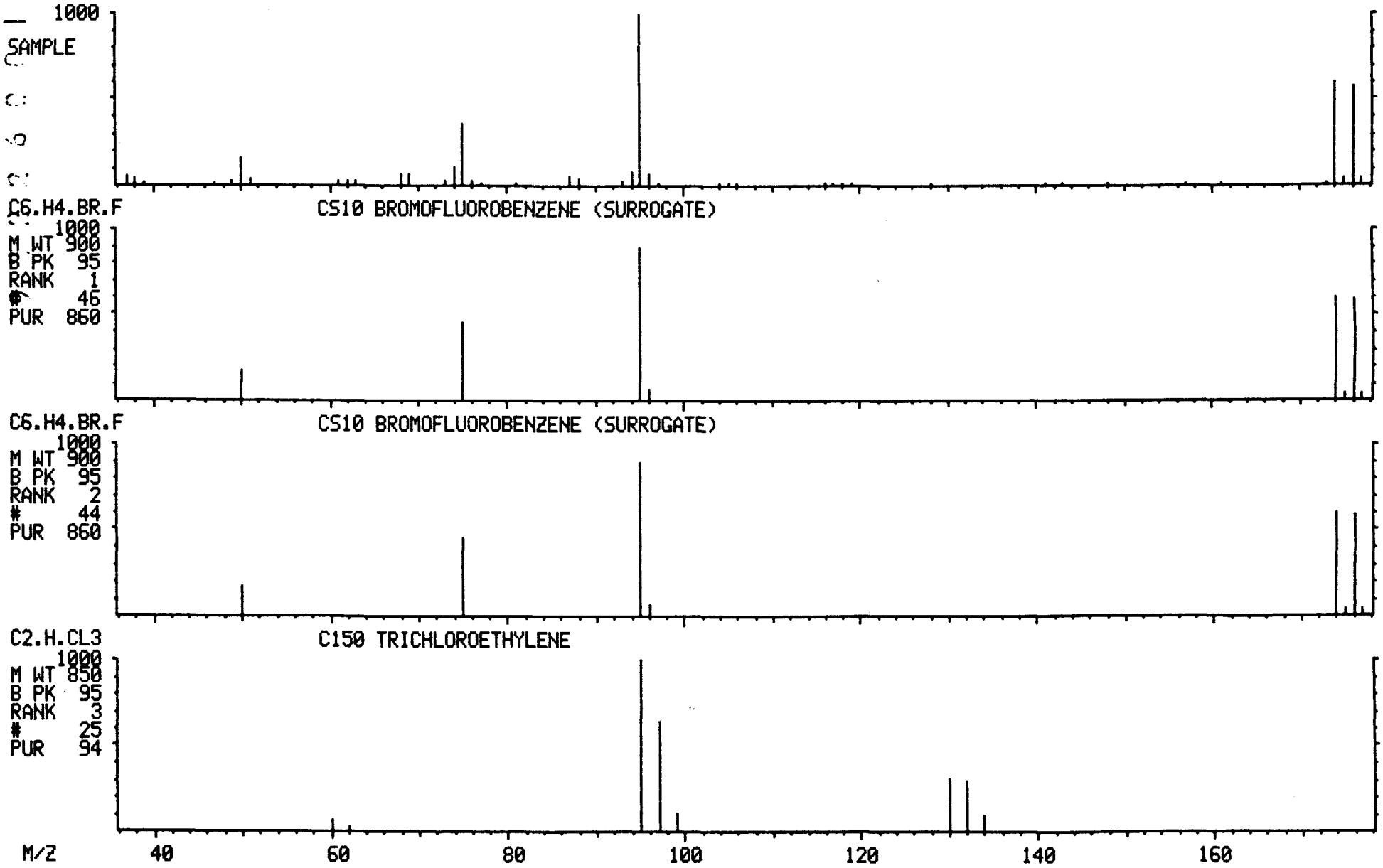
BASE M/Z: 95
RIC: 20160.



LIBRARY SEARCH
04/02/91 15:50:00 + 21:57
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #1646
CALI: B0402LC10 # 3

BASE M/Z: 95
RIC: 19839.

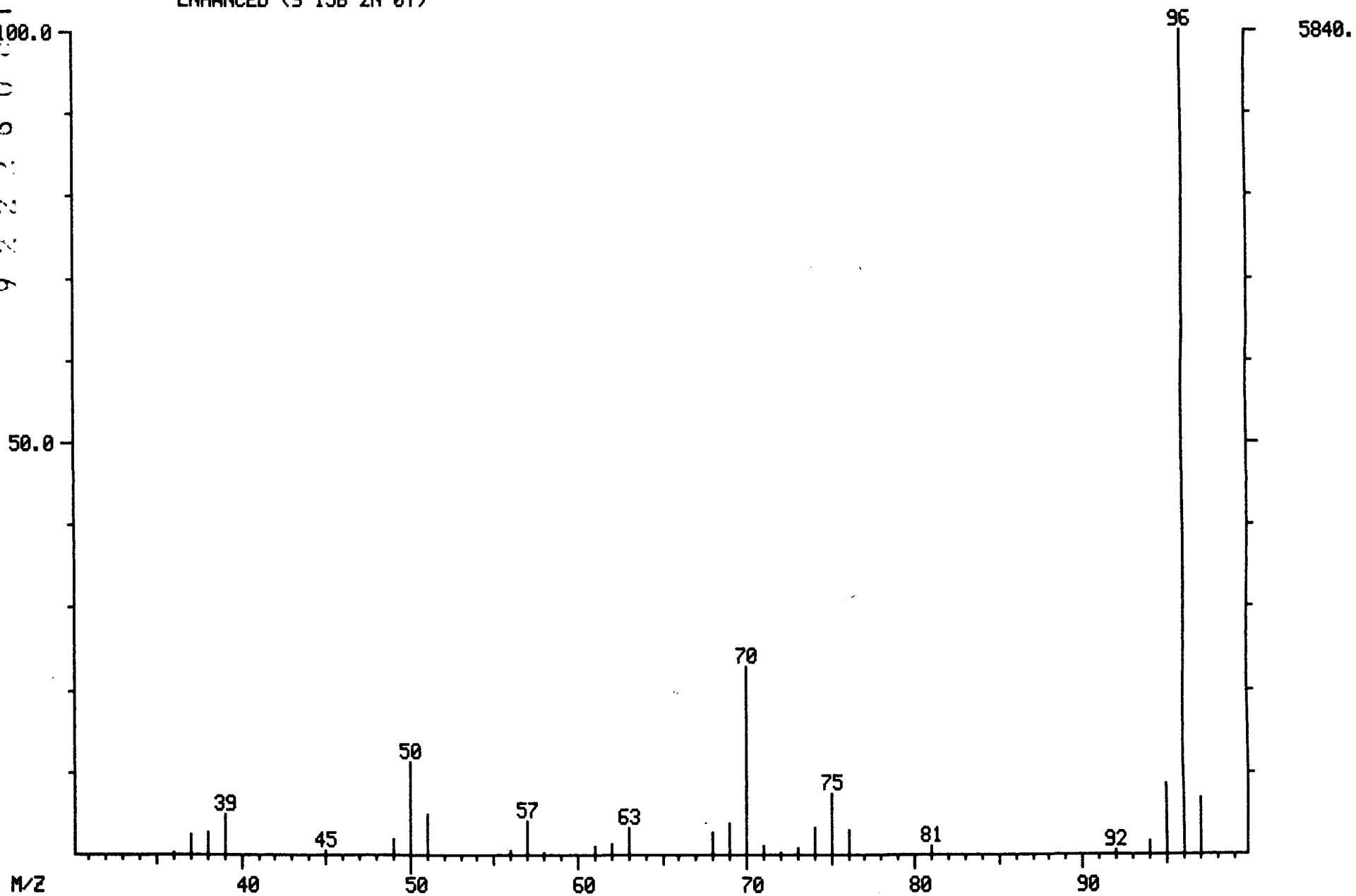


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/02/91 15:50:00 + 5:55
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 #444
CALI: B0402LC10 #3

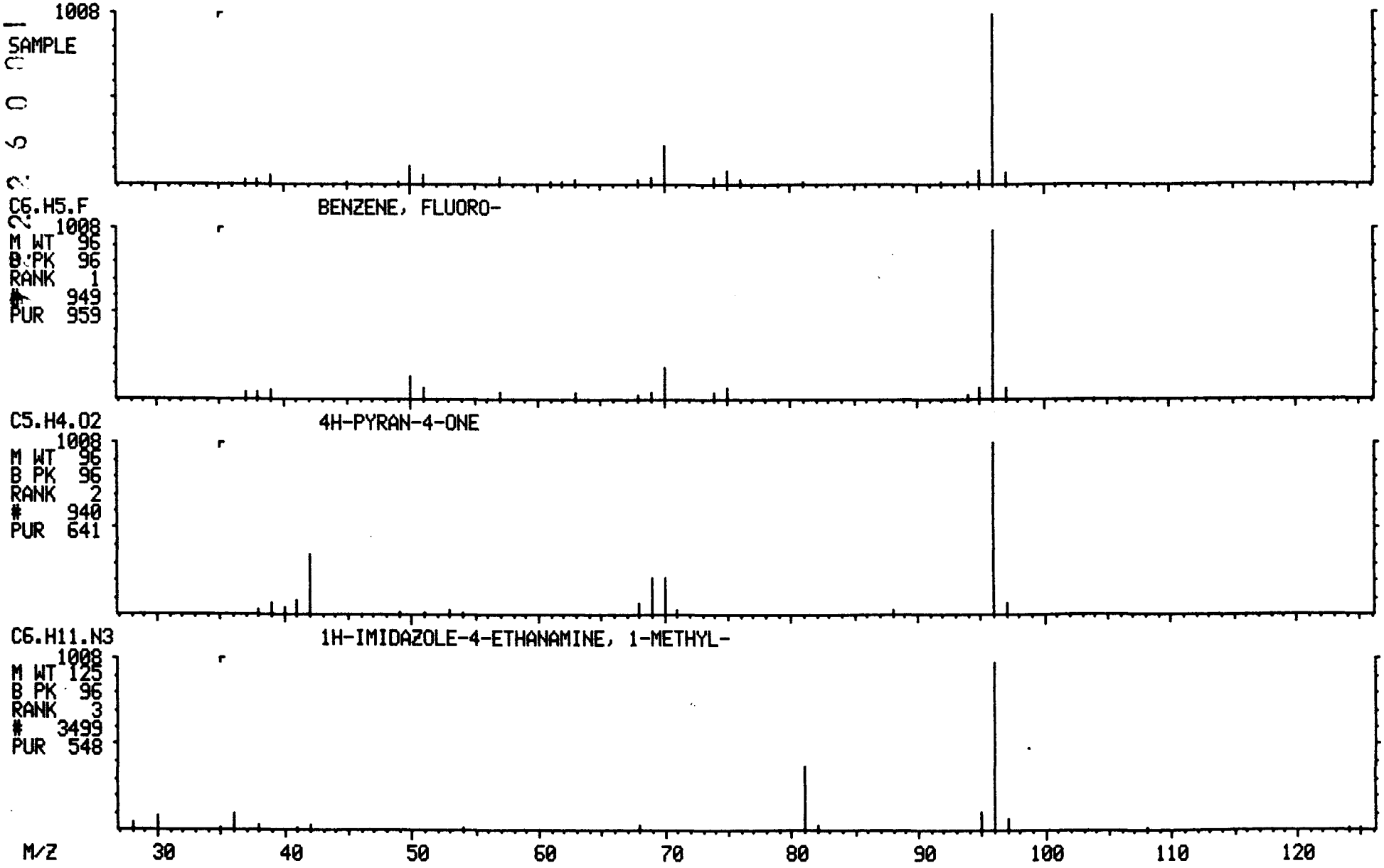
BASE M/Z: 96
RIC: 11936.



LIBRARY SEARCH
04/02/91 15:50:00 + 5:55
SAMPLE: 90905-R, 2.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC10 # 444
CALI: B0402LC10 # 3

BASE M/Z: 96
RIC: 11743.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190906

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0329LC11

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 43 Date Analyzed: 03/29/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	18	U
74-83-9	Bromomethane	18	U
75-01-4	Vinyl Chloride	18	U
75-00-3	Chloroethane	18	U
75-09-2	Methylene Chloride	9	U
67-64-1	Acetone	11	J
75-15-0	Carbon Disulfide	9	U
75-35-4	1,1-Dichloroethene	9	U
75-34-3	1,1-Dichloroethane	9	U
540-59-0	1,2-Dichloroethene (total)	9	U
67-66-3	Chloroform	9	U
107-06-2	1,2-Dichloroethane	9	U
78-93-3	2-Butanone	4	J
71-55-6	1,1,1-Trichloroethane	9	U
56-23-5	Carbon Tetrachloride	9	U
108-05-4	Vinyl Acetate	18	U
75-27-4	Bromodichloromethane	9	U
78-87-5	1,2-Dichloropropane	9	U
10061-01-5	cis-1,3-Dichloropropene	9	U
79-01-6	Trichloroethene	9	U
124-48-1	Dibromochloromethane	9	U
79-00-5	1,1,2-Trichloroethane	9	U
71-43-2	Benzene	9	U
10061-02-6	trans-1,3-Dichloropropene	9	U
75-25-2	Bromoform	9	U
108-10-1	4-Methyl-2-Pentanone	18	U
591-78-6	2-Hexanone	18	U
127-18-4	Tetrachloroethene	9	U
79-34-5	1,1,2,2-Tetrachloroethane	9	U
108-88-3	Toluene	9	U
108-90-7	Chlorobenzene	9	U
100-41-4	Ethylbenzene	9	U
100-42-5	Styrene	9	U
1330-20-7	Xylene (total)	9	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X108

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190906

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0329LC11

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 43 Date Analyzed: 03/29/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

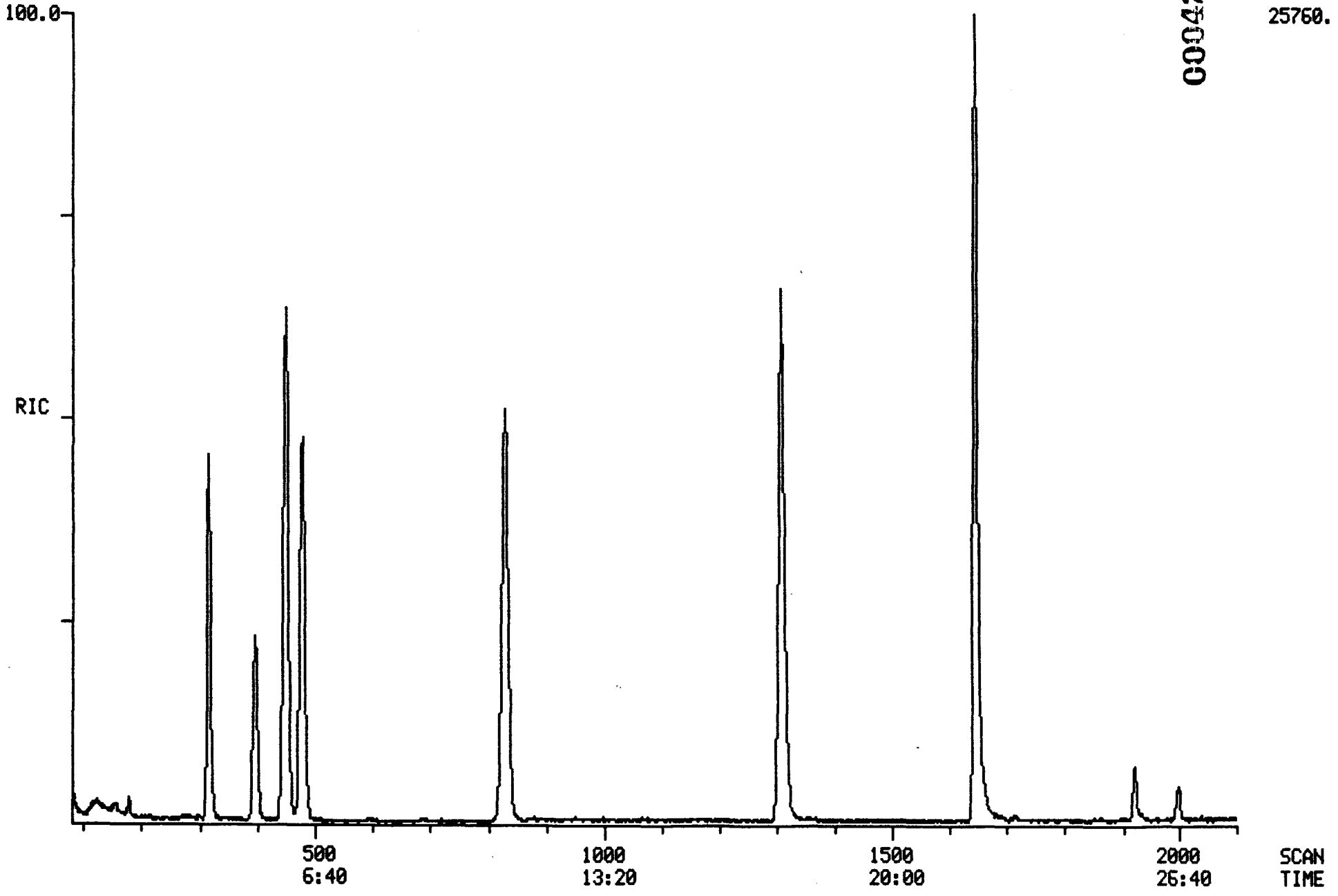
000421

X108

RIC
03/29/91 15:52:00
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0329LC11 #1
CALI: B0329LC11 #3

SCANS 80 TO 2100

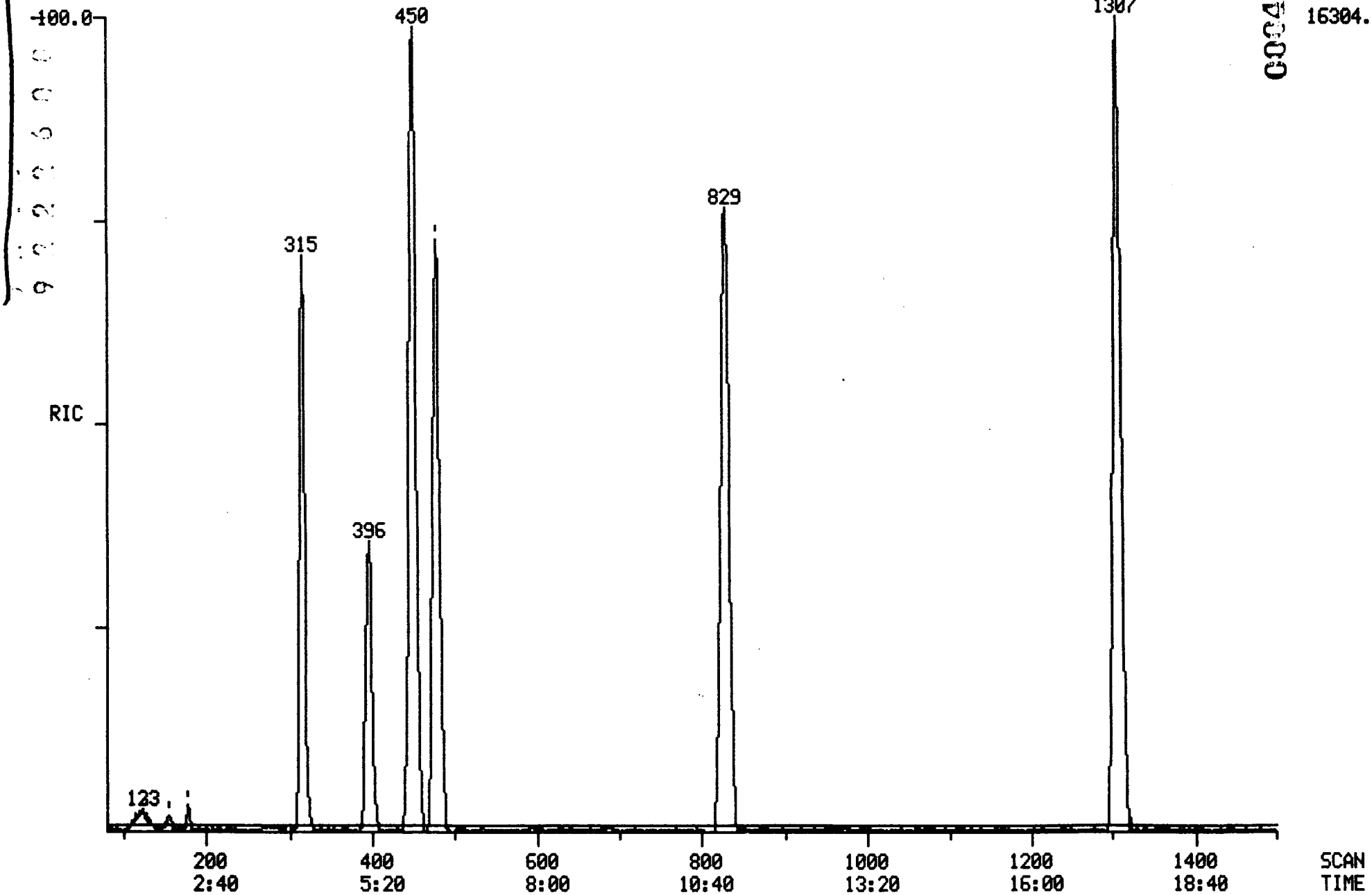


TCA FINISHED, 10 FOUND
FINISHED AT: 3/29/91 18:05:18

000422

RIC
03/29/91 15:52:00
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0329LC11 #1 SCANS 80 TO 1500
CALI: B0329LC11 #3

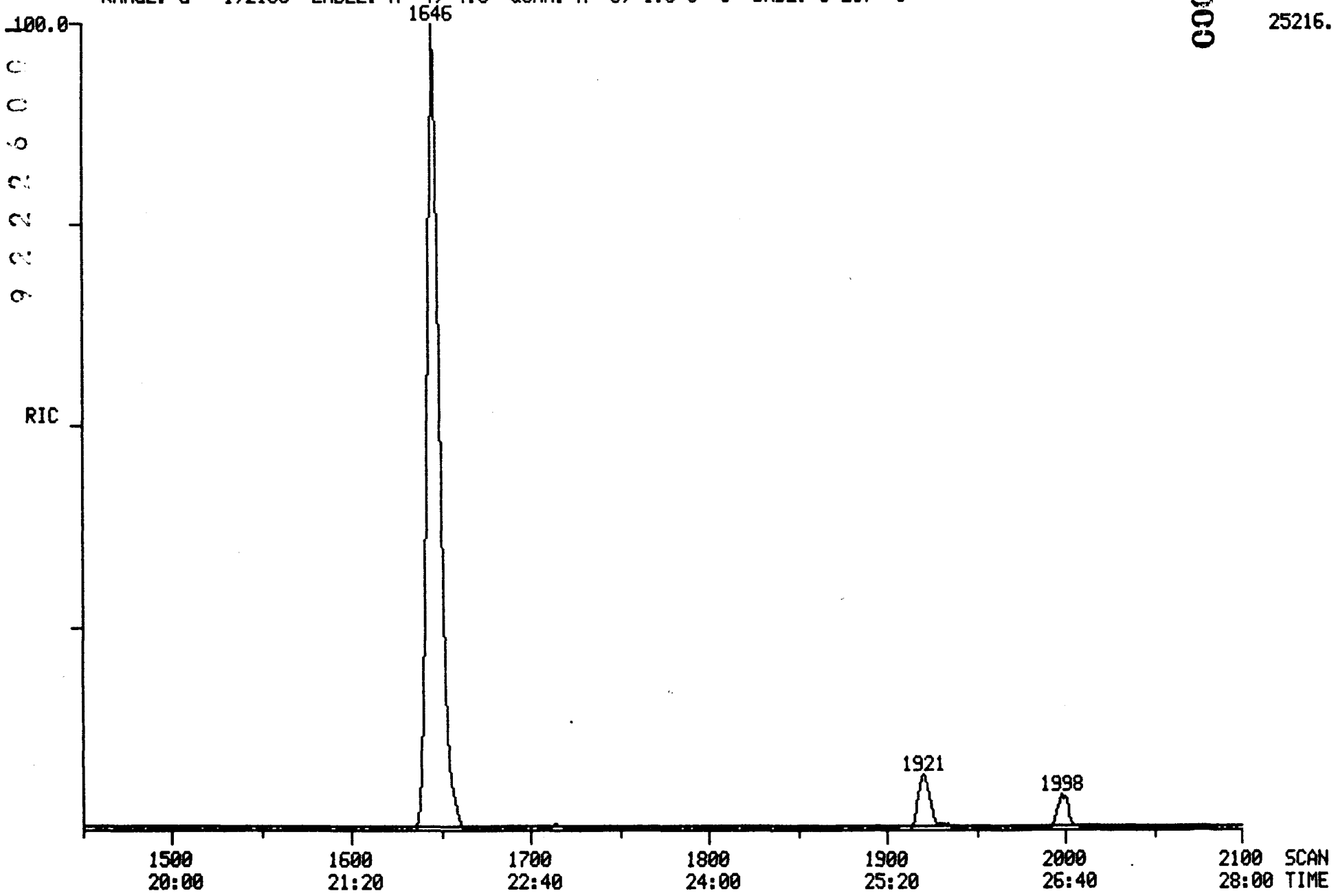


000423

RIC DATA: B0329LC11 #1 SCANS 1450 TO 2100
03/29/91 15:52:00 CALI: B0329LC11 #3
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

000424

25216.



3/29/91 15:52:52 SCAN 1 OF 2100
Acquisition started

Acquire
03/29/91 15:52:00 + 0:02
Sample: 90906, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0329LC11
Free sectors: 7422
Instrument: 5100
Analyst: LC

Acquiring
Scan: 2 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 30 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.200
Samp int (ms): 0.200

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

000425

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

PROCEDURE: TCA DIAGNOSTIC REPORT 3/29/91 18:00:38
DATA FILE: B0329LC11
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 10 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	3	12	CLSRT1/CLSTC1
1	1	1	0	13	3	1	9	CLSRT2/CLSTC2
1	1	1	0	16	4	4	203	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 10 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT ><							------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	306	315	315	.	1	973	.	128	315	.	1
2	CS	2	-101	99	.	.	.	.	.	50	.	.	.
3	CS	3	-110	109	.	.	.	.	.	94	.	.	.
4	CS	4	-103	101	.	.	.	.	.	62	.	.	.
5	CS	5	-114	113	.	.	.	.	.	64	.	.	.
6	CS	6	176	178	178	.	1	994	.	84	178	.	1
7	CS	7	154	155	155	.	3	986	.	43	155	.	1
8	CS	8	-155	156	.	.	.	.	.	76	158	.	1
9	CS	9	-144	144	.	.	.	.	.	96	.	.	.
10	CS	10	-225	230	.	.	.	.	.	63	.	.	.
11	CS	12	-320	330	.	.	.	.	.	83	.	.	.
12	CS	13	332	342	.	.	.	.	.	97	.	.	.
13	CS	14	-119	118	.	.	.	.	.	101	117	.	1
14	CS	15	-194	197	.	.	.	.	.	96	.	.	.
15	CS	16	-280	288	.	.	.	.	.	96	.	.	.
16	CS	17	462	478	478	.	1	996	.	114	478	.	1
17	CS	18	-394	406	.	.	.	.	.	62	.	.	.
18	CS	19	291	298	298	.	1	897	.	72	298	.	1
19	CS	20	-354	364	.	.	.	.	.	117	.	.	.
20	CS	21	-228	232	.	.	.	.	.	43	236	.	3
21	CS	22	-629	654	.	.	.	.	.	83	.	.	.
22	CS	23	-549	570	.	.	.	.	.	63	.	.	.
23	CS	24	-745	776	.	.	.	.	.	75	.	.	.
24	CS	25	499	517	.	.	.	.	.	130	.	.	.
25	CS	27	-388	400	.	.	.	.	.	78	397	.	1
26	CS	28	-733	763	.	.	.	.	.	106	.	.	.
27	CS	29	384	396	396	.	1	967	.	65	396	.	1
28	CS	43	-1514	1585	.	.	.	.	.	173	.	.	.
29	CS	30	1299	1307	1307	.	1	994	.	117	1307	.	1
30	CS	26	-1121	1130	.	.	.	.	.	129	.	.	.
31	CS	31	-1000	1011	.	.	.	.	.	97	.	.	.
32	CS	32	-946	958	.	.	.	.	.	75	.	.	.
33	CS	33	-1127	1136	.	.	.	.	.	43	1131	.	2
34	CS	34	-835	848	.	.	.	.	.	43	.	.	.
35	CS	35	-999	1010	.	.	.	.	.	164	.	.	.
36	CS	36	-1724	1724	.	.	.	.	.	83	.	.	.
37	CS	37	832	845	.	.	.	.	.	91	846	.	1
38	CS	38	-1309	1315	1313	-2	1	968	.	112	1315	2	1
39	CS	39	-1360	1366	.	.	.	.	.	106	.	.	.
40	CS	40	-1519	1522	.	.	.	.	.	104	.	.	.
41	CS	41	-1401	1406	.	.	.	.	.	106	1404	.	1
42	CS	42	-1506	1509	.	.	.	.	.	106	.	.	.
43	CS	44	1644	1645	1646	1	4	987	.	95	1646	.	1
44	CS	45	815	829	829	.	1	992	.	98	828	-1	1

Quantitation Report File: B0329LC11

Data: B0329LC11.TI
03/29/91 15:52:00
Sample: 90906, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	315	4:12	1	1.000	A BB	9415.	50.000 UG/G	10.95
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	178	2:22	1	0.565	A BB	534.	~~1.911~~ UG/G	0.42
7	43	155	2:04	1	0.492	A BB	755.	6.445 UG/G	1.41
8	76	158	2:06	1	0.502	A BB	38.	~~0.039~~ UG/G	0.01
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	101	117	1:34	1	0.371	A BB	37.	~~0.178~~ UG/G	0.04
14	NOT FOUND								
15	NOT FOUND								
16	114	478	6:22	16	1.000	A BB	45887.	50.000 UG/G	10.95
17	NOT FOUND								
18	72	298	3:58	16	0.623	A BB	104.	2.375 UG/G	0.52
19	NOT FOUND								
20	43	236	3:09	16	0.494	A*BB	224.	~~1.001~~ UG/G	0.22
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	78	397	5:18	16	0.831	A BB	48.	~~0.052~~ UG/G	0.01
26	NOT FOUND								
27	65	396	5:17	16	0.828	A BB	13728.	98.523 %	21.58
28	NOT FOUND								
29	117	1307	17:26	29	1.000	A BB	52714.	50.000 UG/G	10.95
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	1131	15:05	29	0.865	A*BB	208.	~~0.417~~ UG/G	0.09
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	91	846	11:17	29	0.647	A BB	102.	~~0.097~~ UG/G	0.02
38	112	1315	17:32	29	1.006	A BB	1736.	~~1.673~~ UG/G	0.34
39	NOT FOUND								
40	NOT FOUND								
41	106	1404	18:43	29	1.074	A BB	19.	~~0.028~~ UG/G	0.01
42	NOT FOUND								
43	95	1646	21:57	29	1.259	A BB	52389.	95.957 %	21.01
44	98	828	11:02	29	0.634	A BB	51867.	98.138 %	21.49

Quantitation Report File: B0329LC11A

Data: B0329LC11.TI
03/29/91 15:52:00
Sample: 90906, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	450	6:00	1	1.000	A BB	153201.	66.200	*100.

3/29/91 16:20:55
Acquisition completed
Scans 1 to 2100 centroid

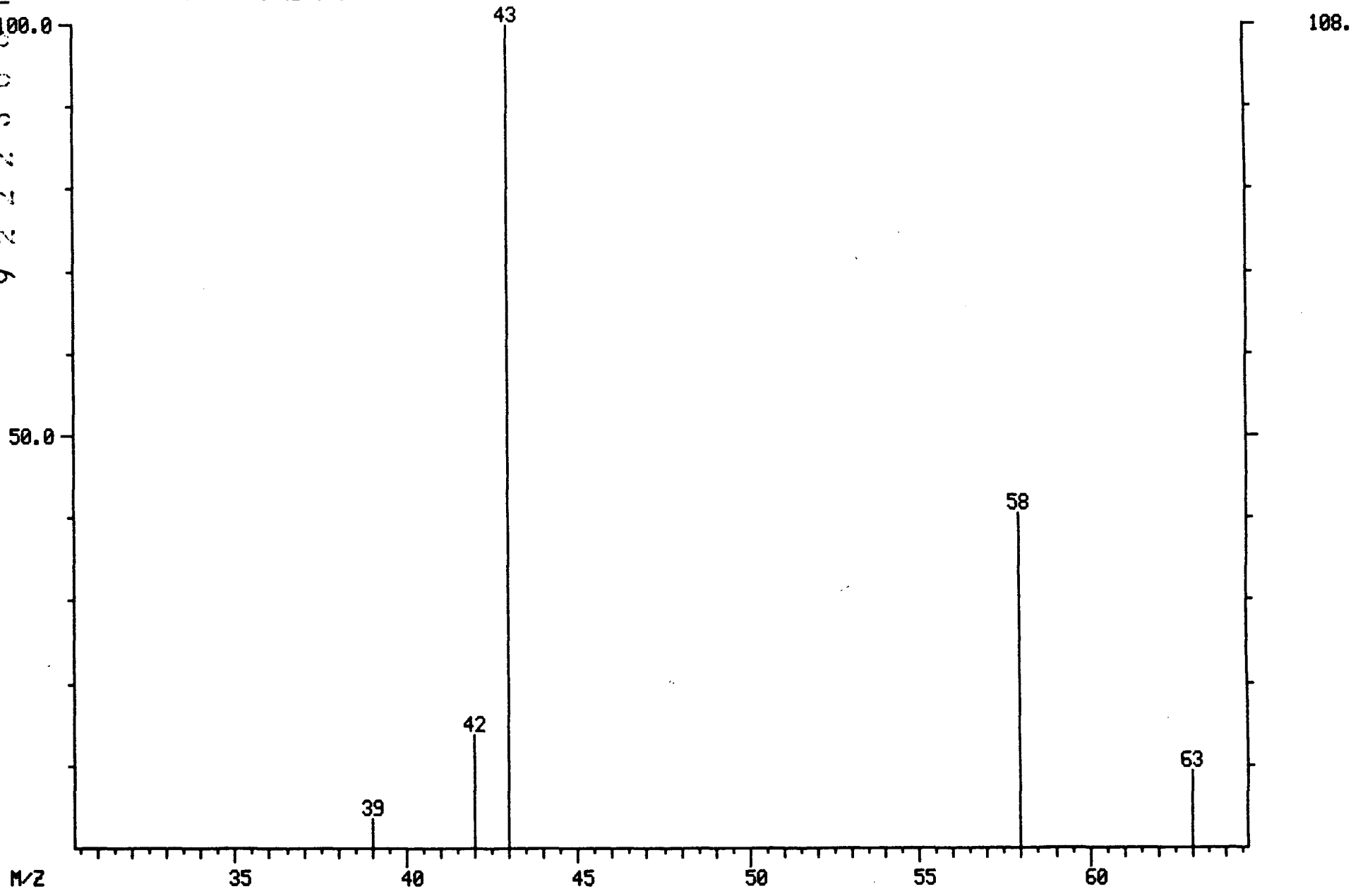
Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	8.6	1680.0	0.5	23719.	11.	14.

TARGET COMPOUND SPECTA

MASS SPECTRUM
03/29/91 15:52:00 + 2:04
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 #155
CALI: B0329LC11 #3

BASE M/Z: 43
RIC: 181.



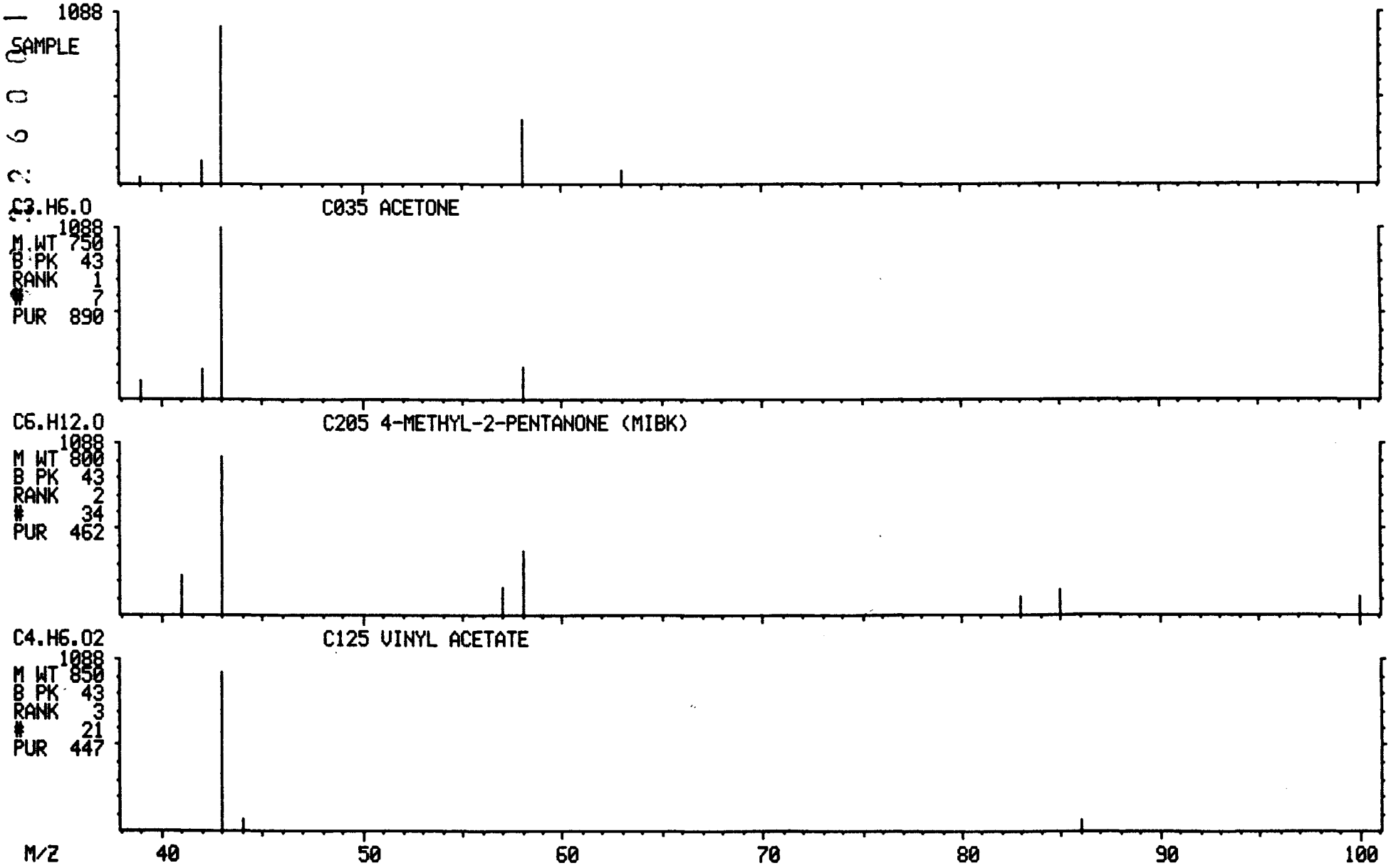
000432

LIBRARY SEARCH
03/29/91 15:52:00 + 2:04
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 # 155
CALI: B0329LC11 # 3

BASE M/Z: 43
RIC: 180.

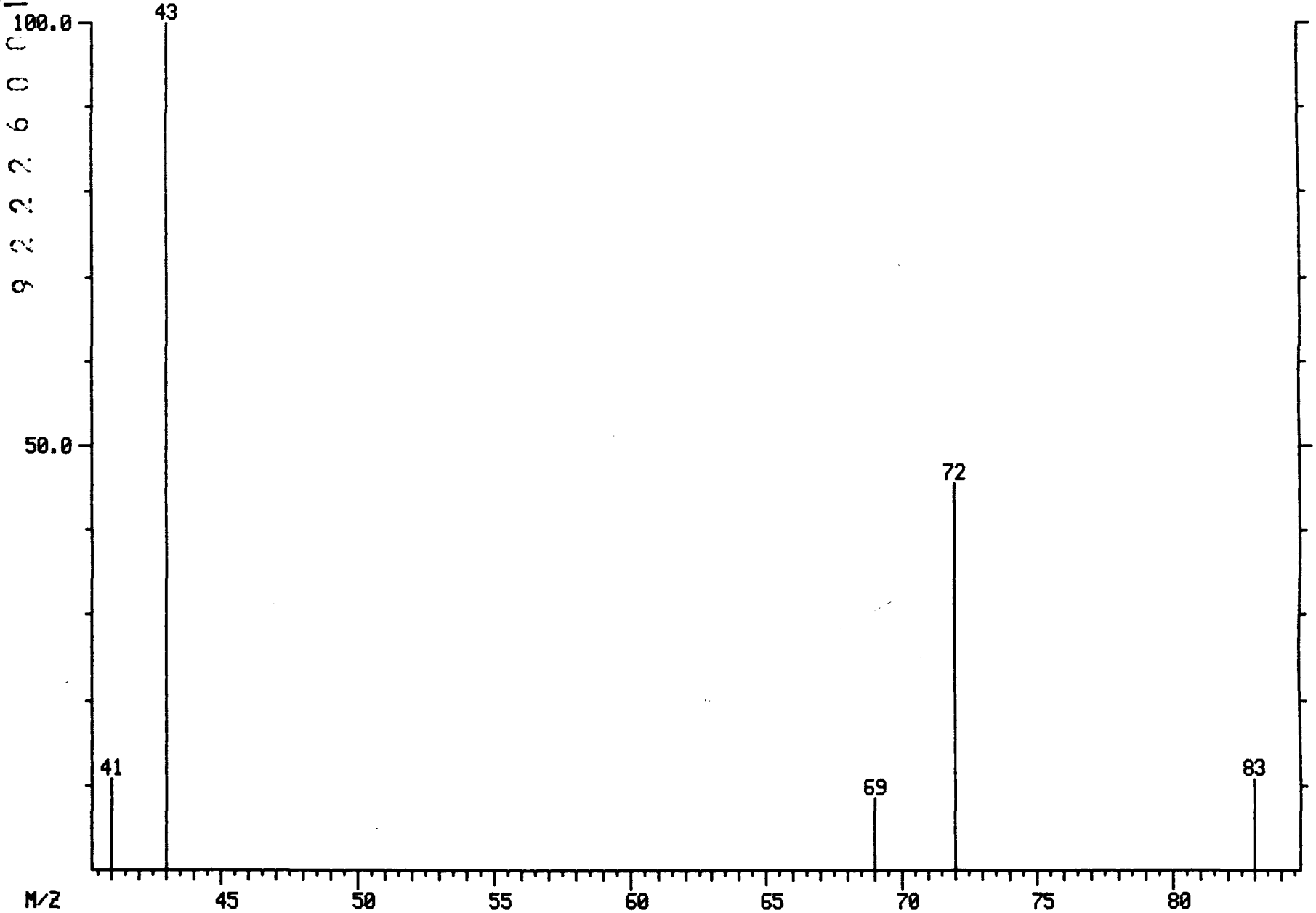
000433



MASS SPECTRUM
03/29/91 15:52:00 + 3:58
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 #298
CALI: B0329LC11 #3

BASE M/Z: 43
RIC: 81.



46.

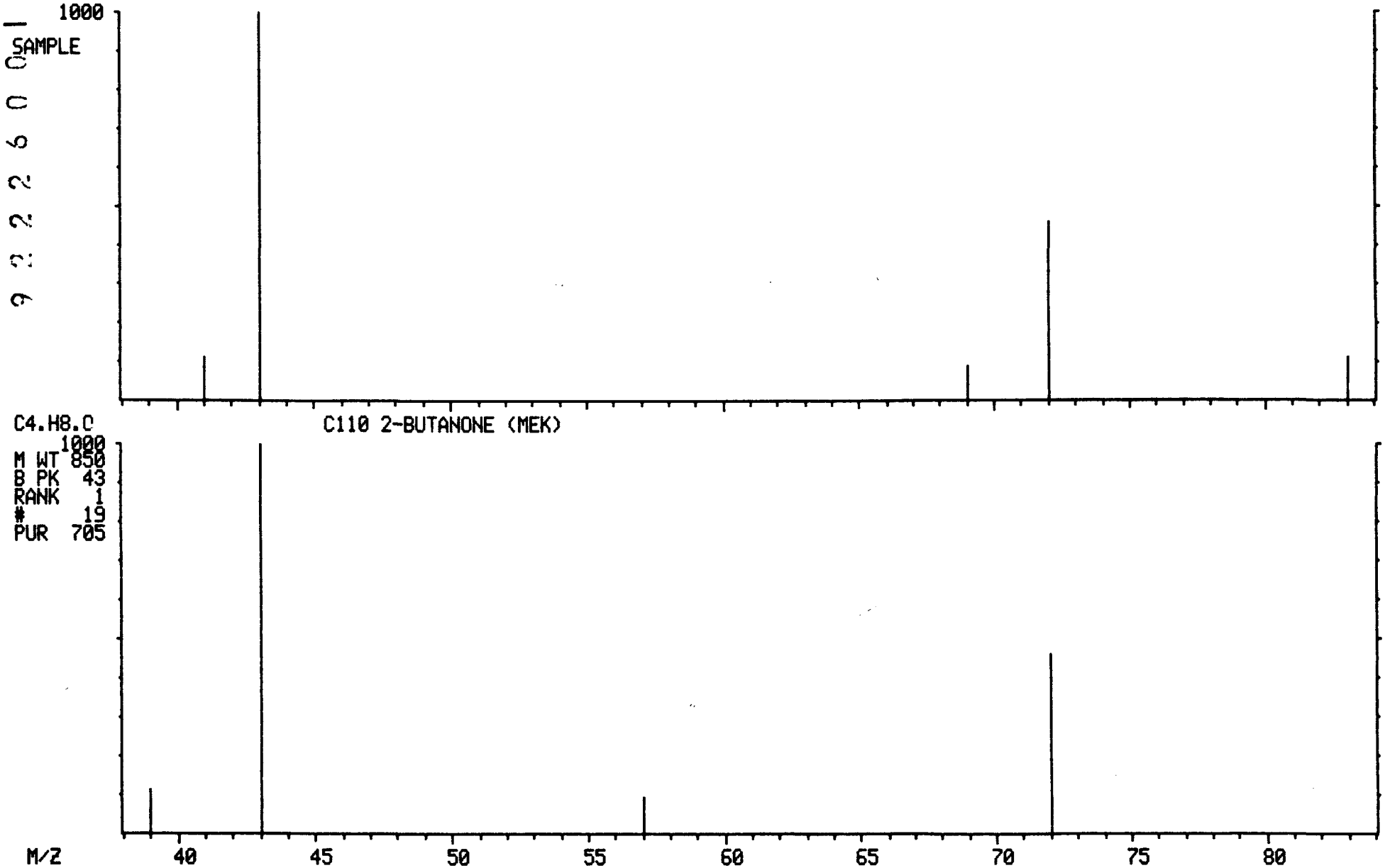
9 2 2 2 6 0 0 0 1 1 0
000434

LIBRARY SEARCH
03/29/91 15:52:00 + 3:58
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 # 298
CALI: B0329LC11 # 3

BASE M/Z: 43
RIC: 80.

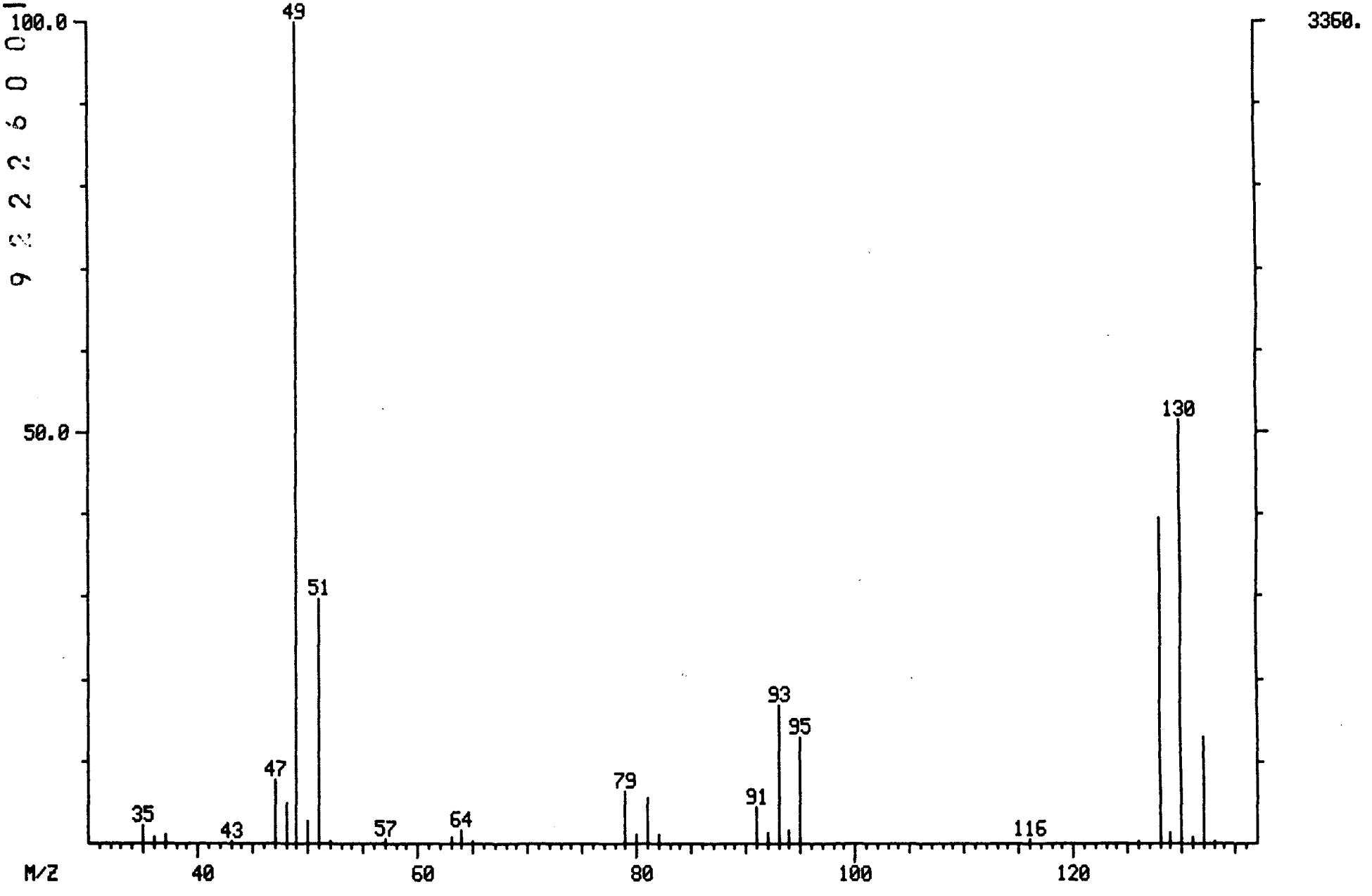
009435



MASS SPECTRUM
03/29/91 15:52:00 + 4:12
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 #315
CALI: B0329LC11 #3

BASE M/Z: 49
RIC: 10480.



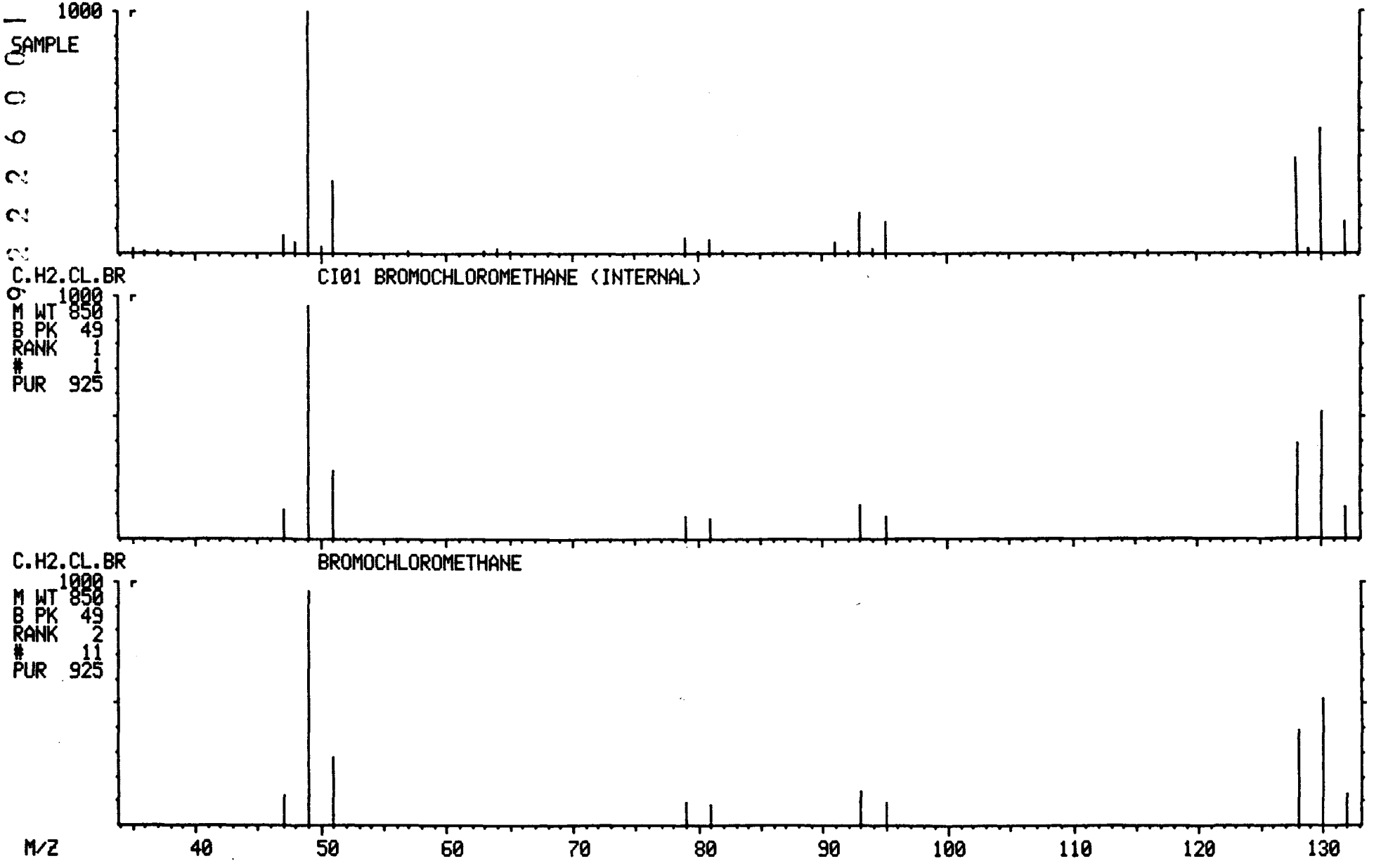
000436

LIBRARY SEARCH
03/29/91 15:52:00 + 4:12
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 # 315
CALI: B0329LC11 # 3

BASE M/Z: 49
RIC: 10431.

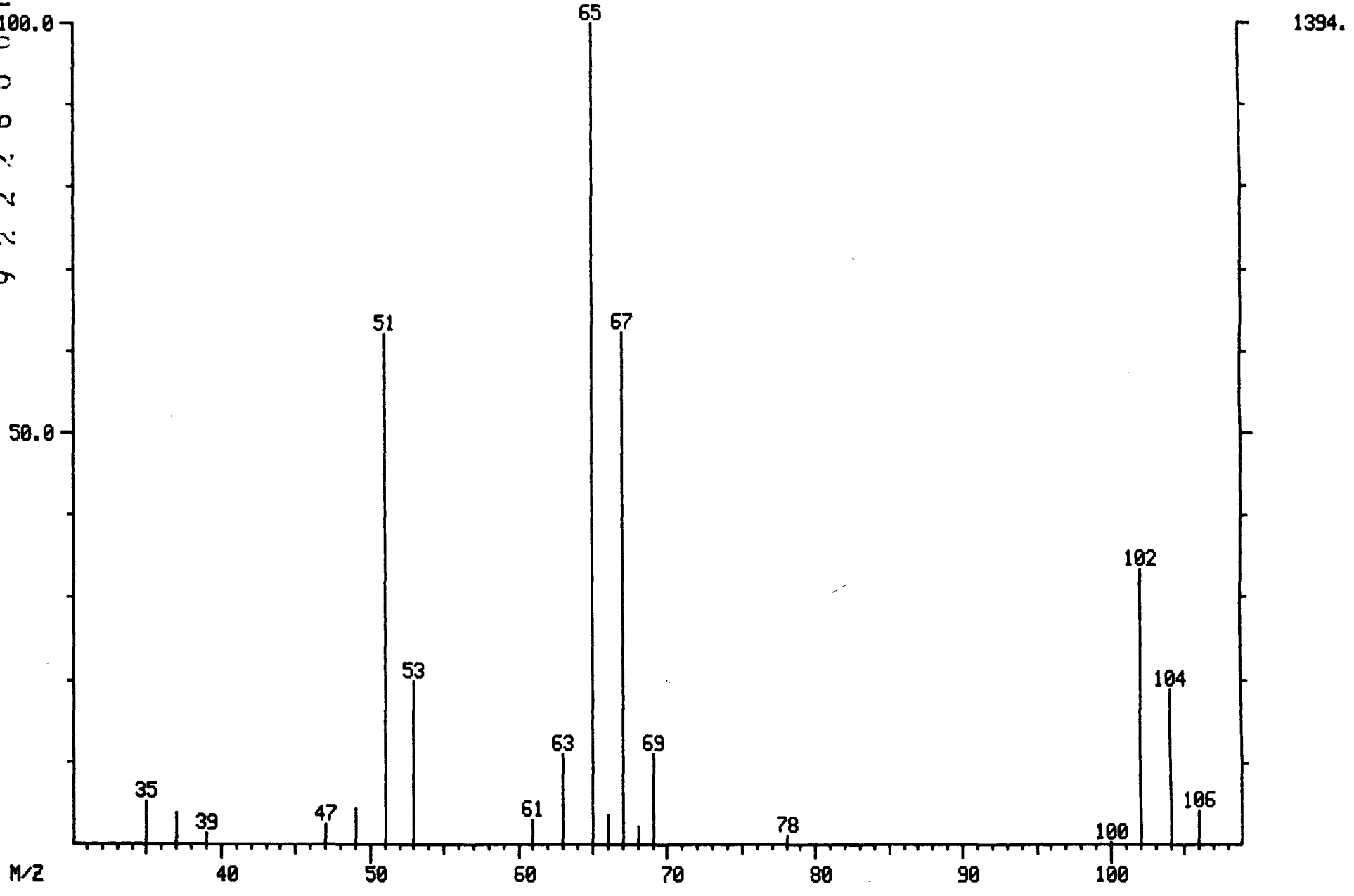
000437



MASS SPECTRUM
03/29/91 15:52:00 + 5:17
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 #396
CALI: B0329LC11 #3

BASE M/Z: 65
RIC: 4896.



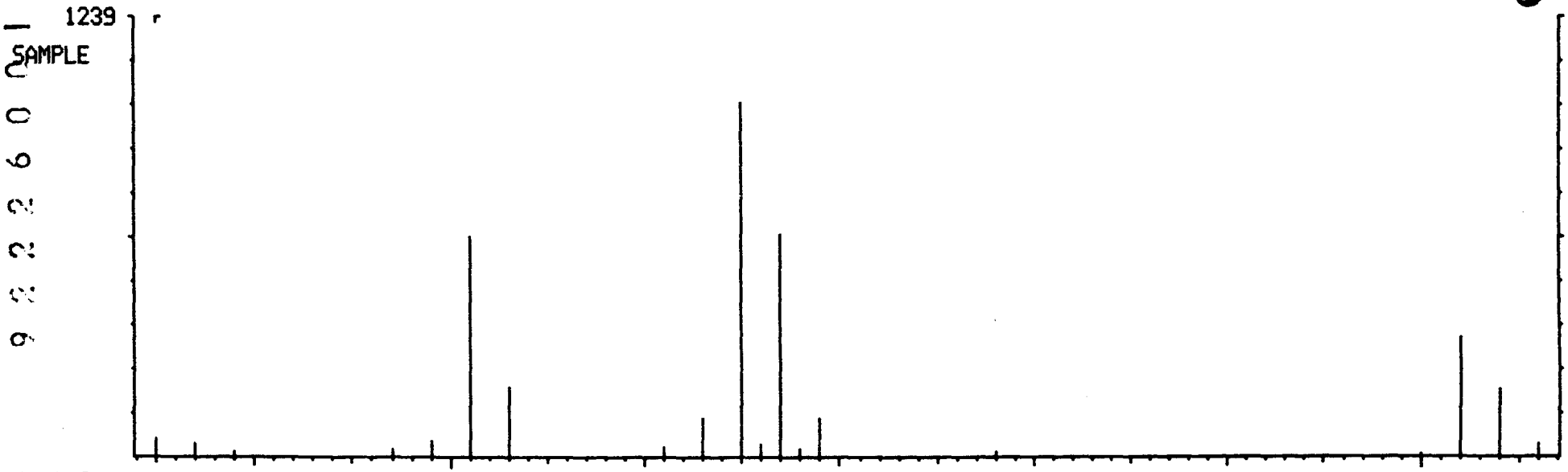
9222600111114

000438

LIBRARY SEARCH
03/29/91 15:52:00 + 5:17
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

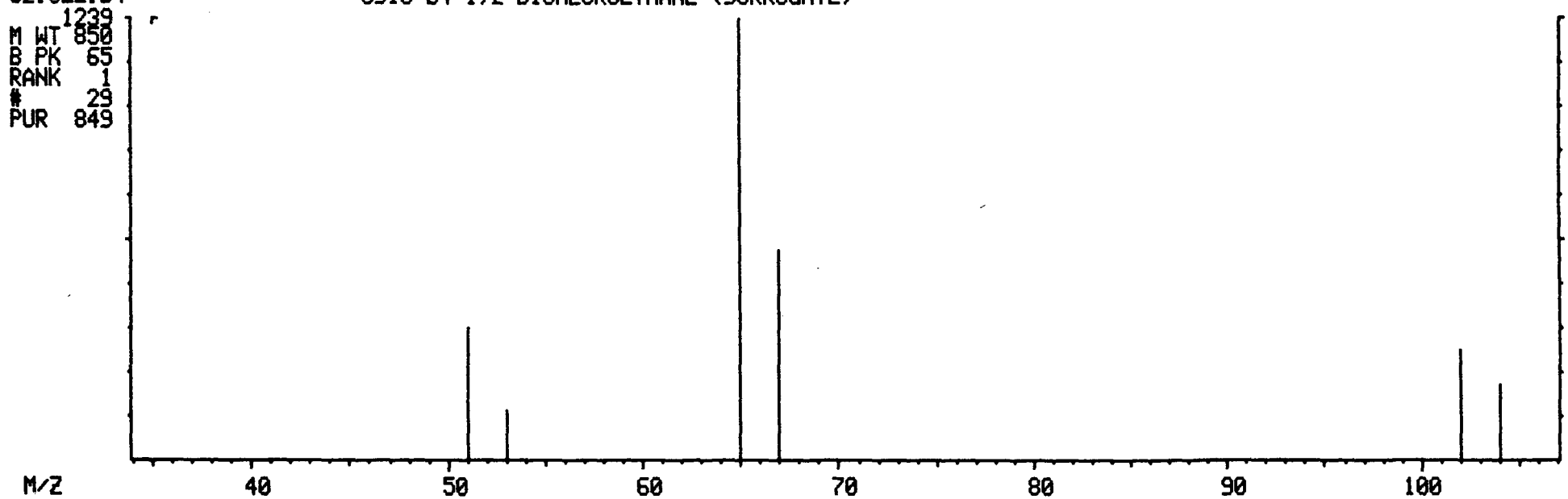
DATA: B0329LC11 # 396
CALI: B0329LC11 # 3

BASE M/Z: 65
RIC: 4895.



C2.CL2.D4 CS15 D4-1,2-DICHLOROETHANE (SURROGATE)

M WT 850
B PK 65
RANK 1
29
PUR 849

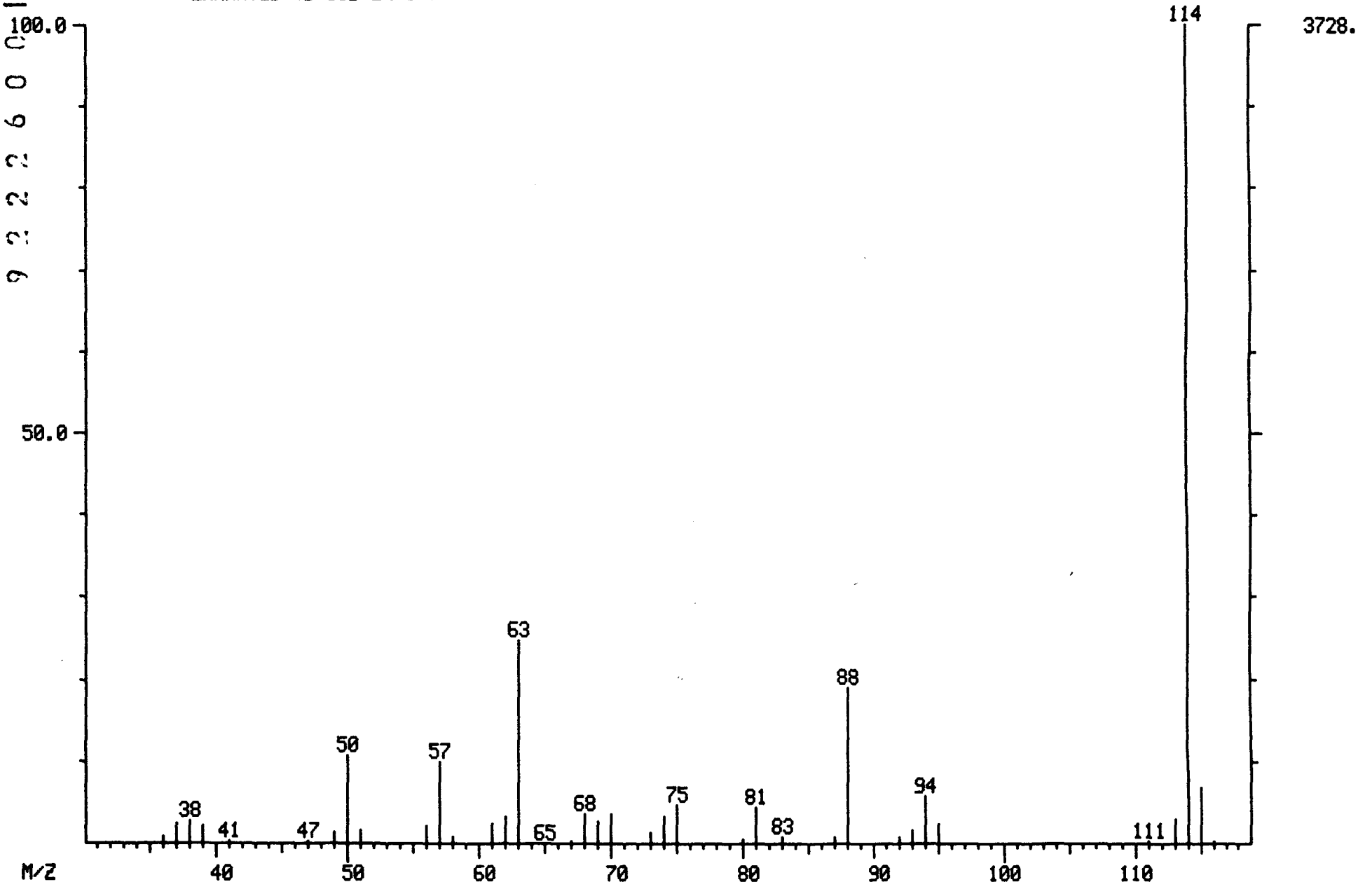


MASS SPECTRUM
03/29/91 15:52:00 + 6:22
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 #478
CALI: B0329LC11 #3

BASE M/Z: 114
RIC: 8720.

000440

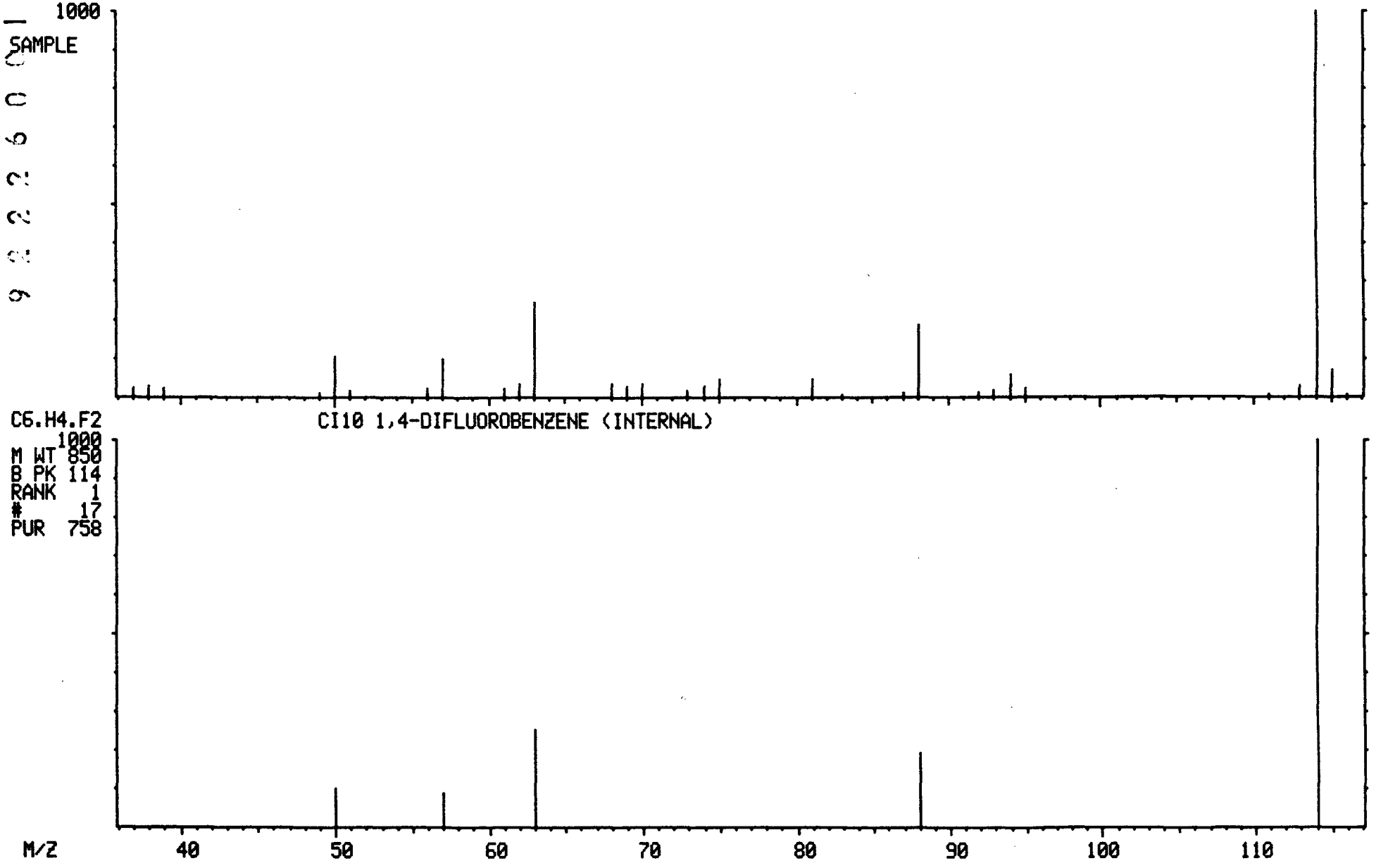


LIBRARY SEARCH
03/29/91 15:52:00 + 6:22
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 # 478
CALI: B0329LC11 # 3

BASE M/Z: 114
RIC: 8591.

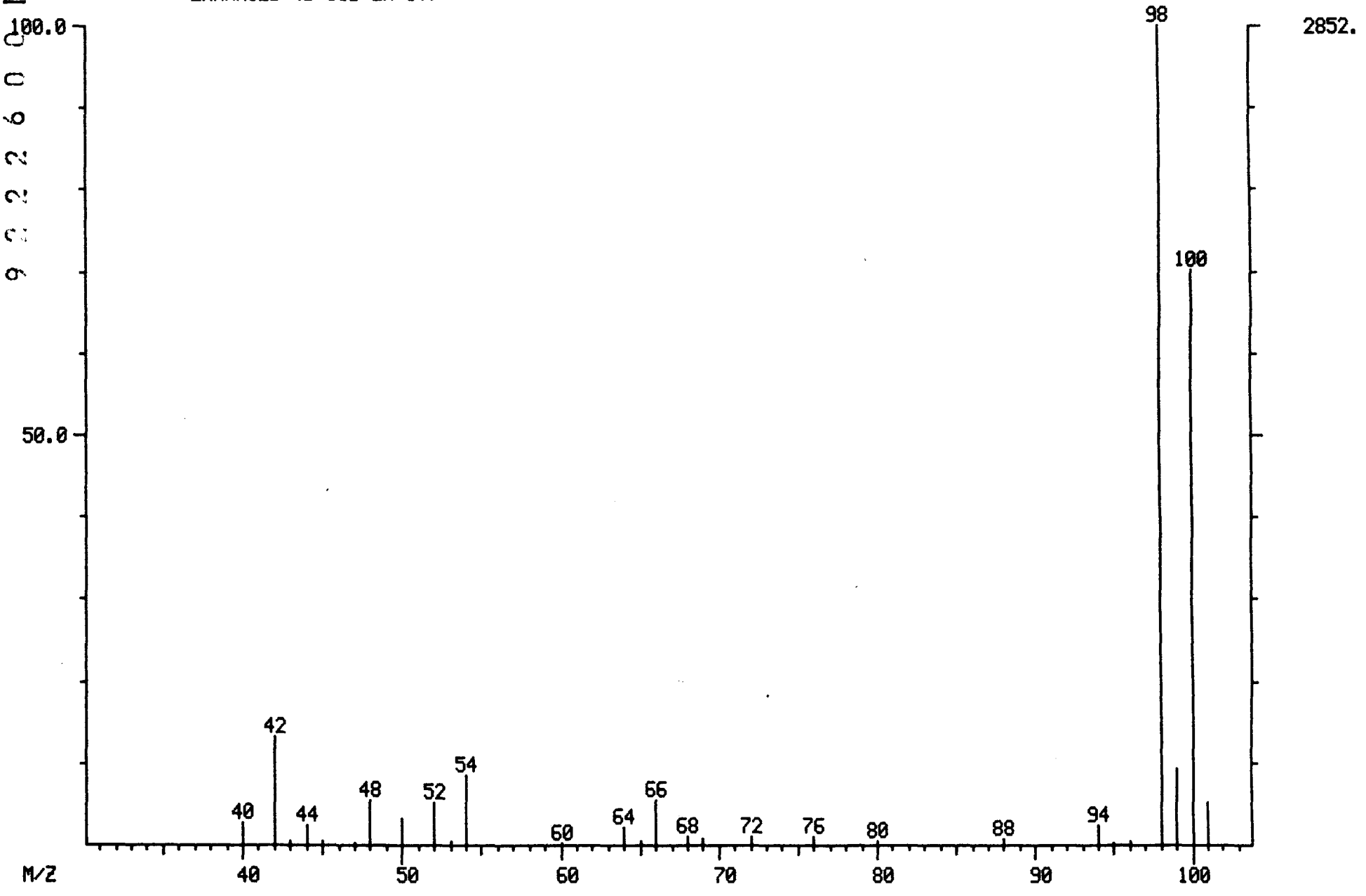
000451



MASS SPECTRUM
03/29/91 15:52:00 + 11:02
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 #828
CALI: B0329LC11 #3

BASE M/Z: 98
RIC: 6984.

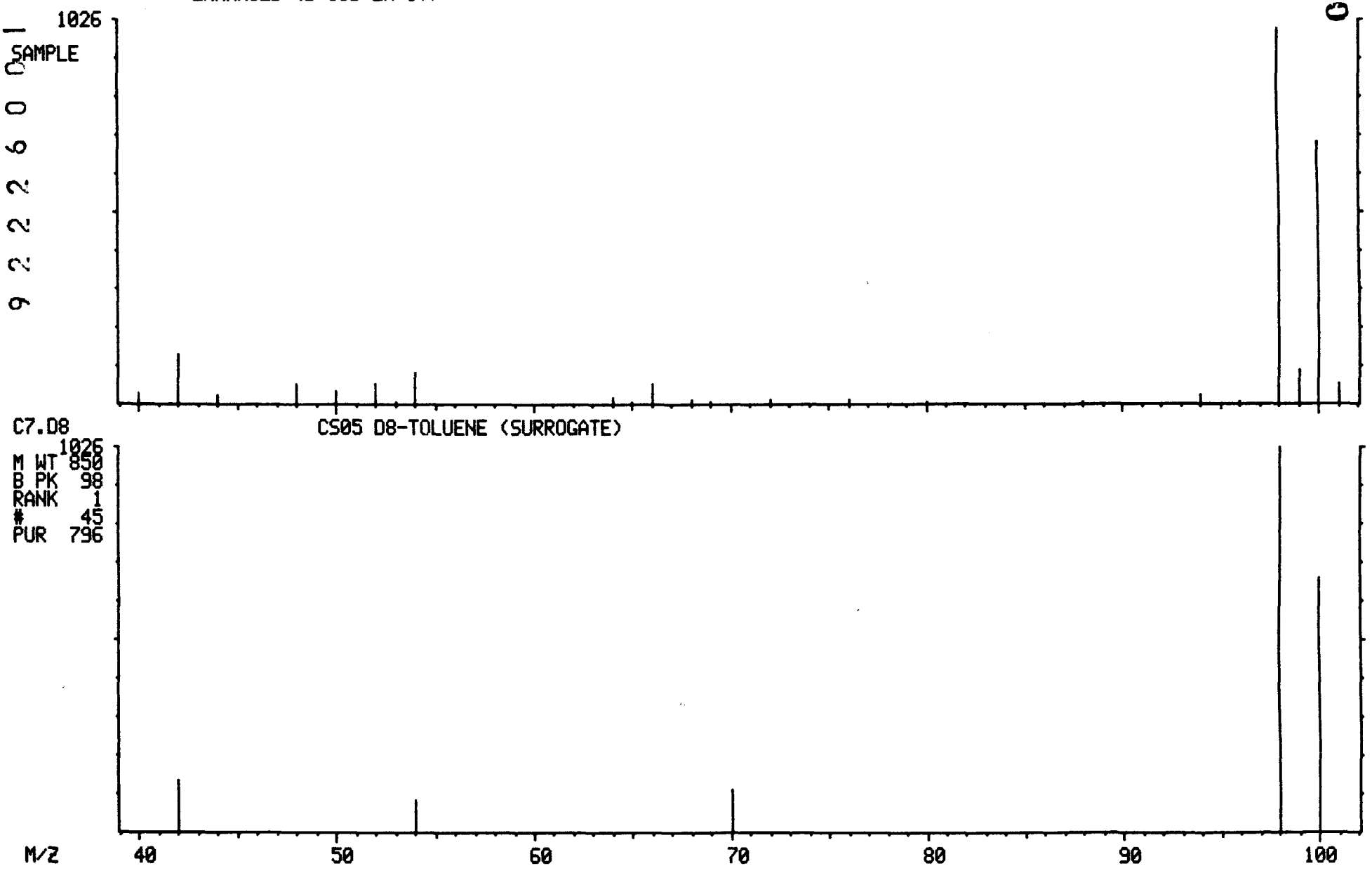


000452

LIBRARY SEARCH
03/29/91 15:52:00 + 11:02
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 # 828
CALI: B0329LC11 # 3

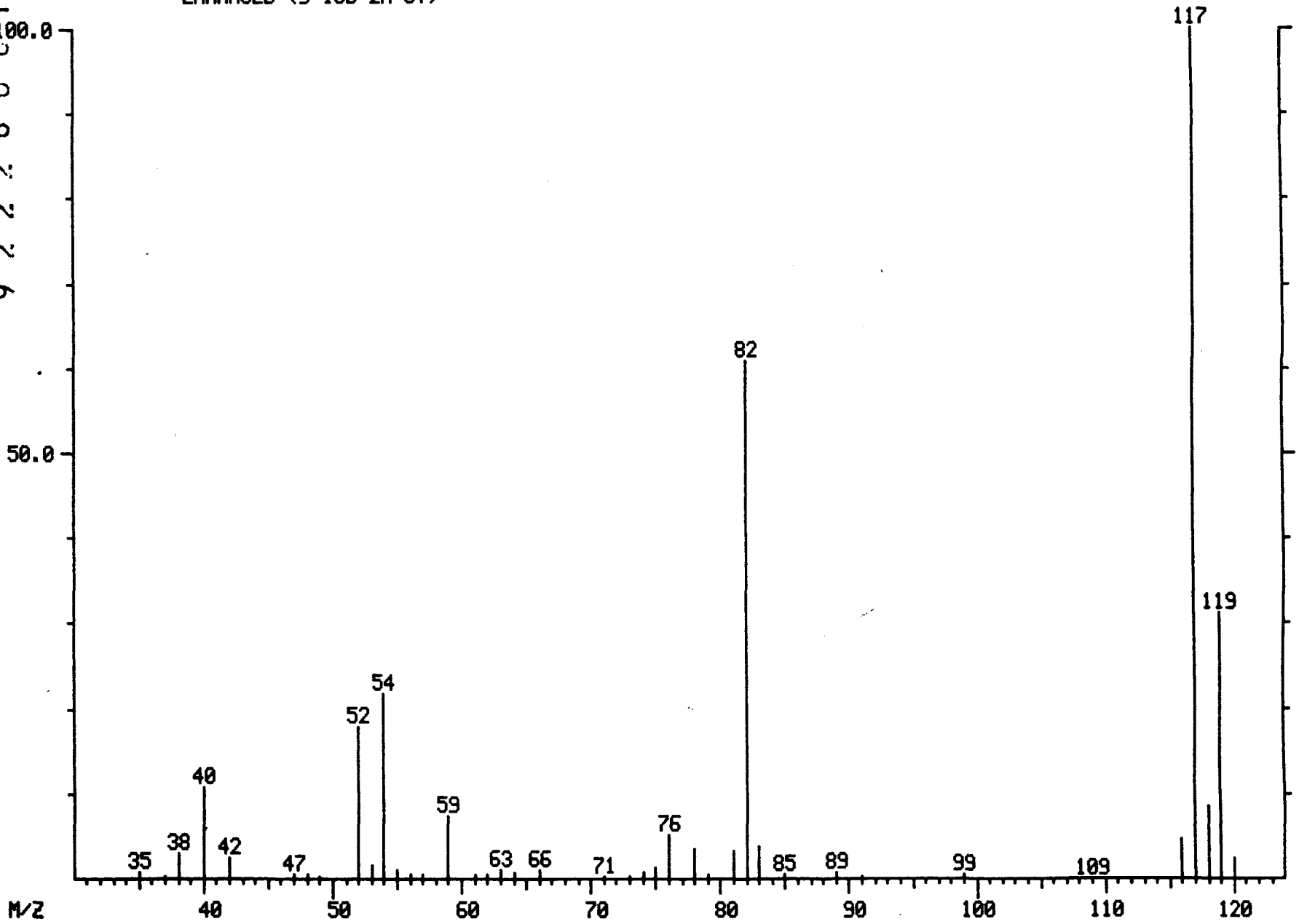
BASE M/Z: 98
RIC: 6927.



MASS SPECTRUM
03/29/91 15:52:00 + 17:26
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 #1307
CALI: B0329LC11 #3

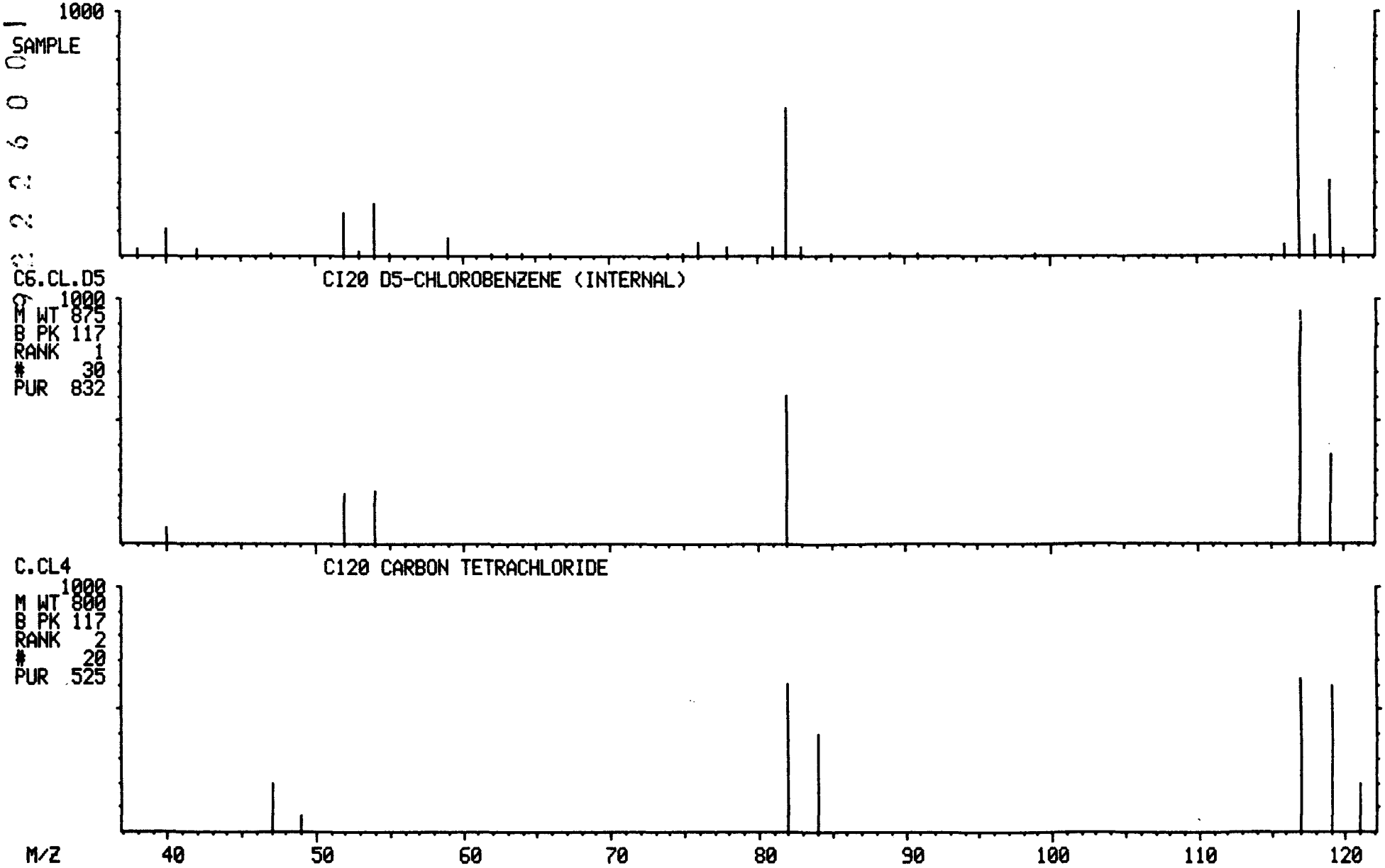
BASE M/Z: 117
RIC: 10592.



LIBRARY SEARCH
03/29/91 15:52:00 + 17:26
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 #1307
CALI: B0329LC11 # 3

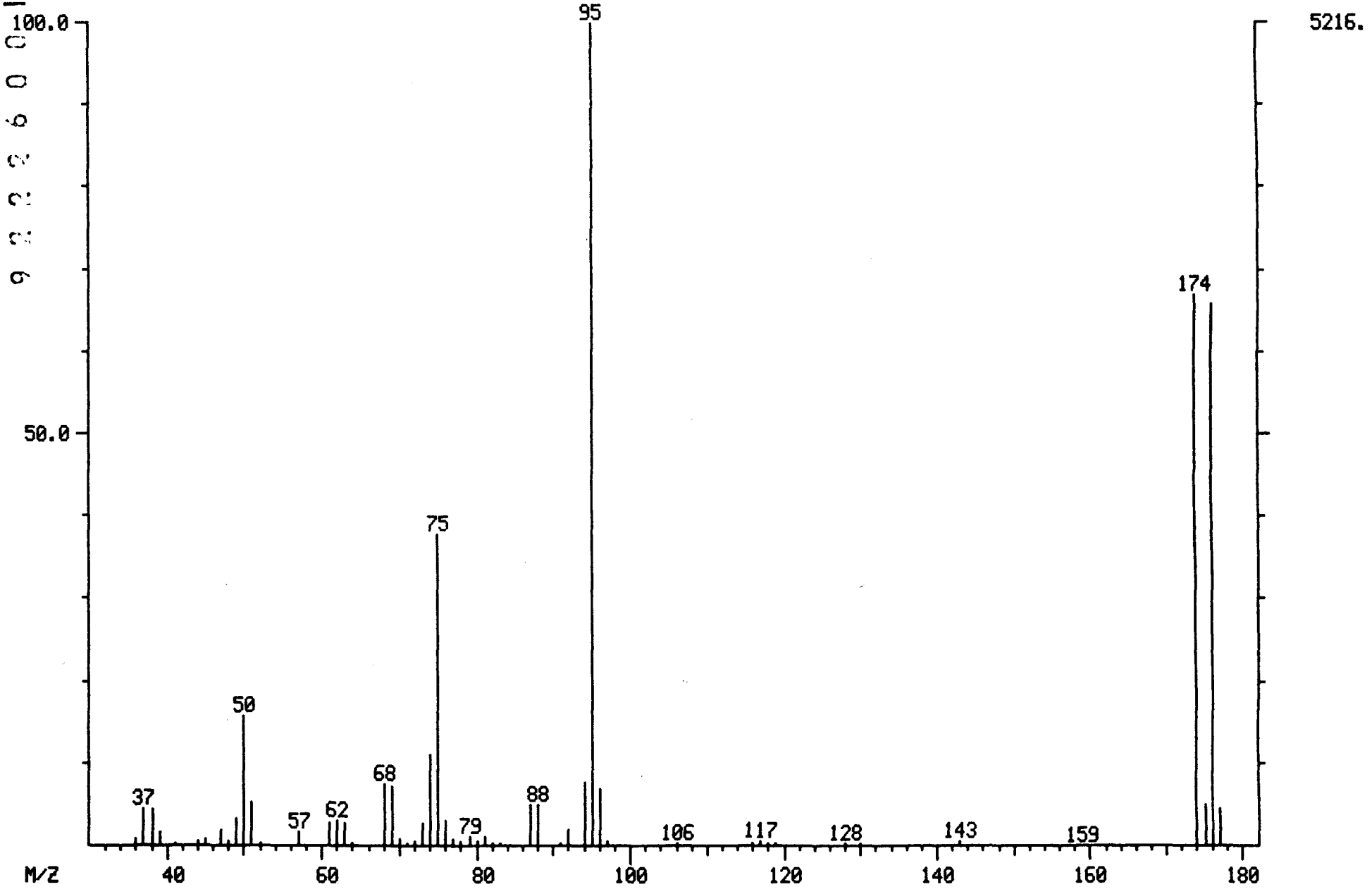
BASE M/Z: 117
RIC: 10415.



MASS SPECTRUM
03/29/91 15:52:00 + 21:57
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 #1646
CALI: B0329LC11 #3

BASE M/Z: 95
RIC: 20768.



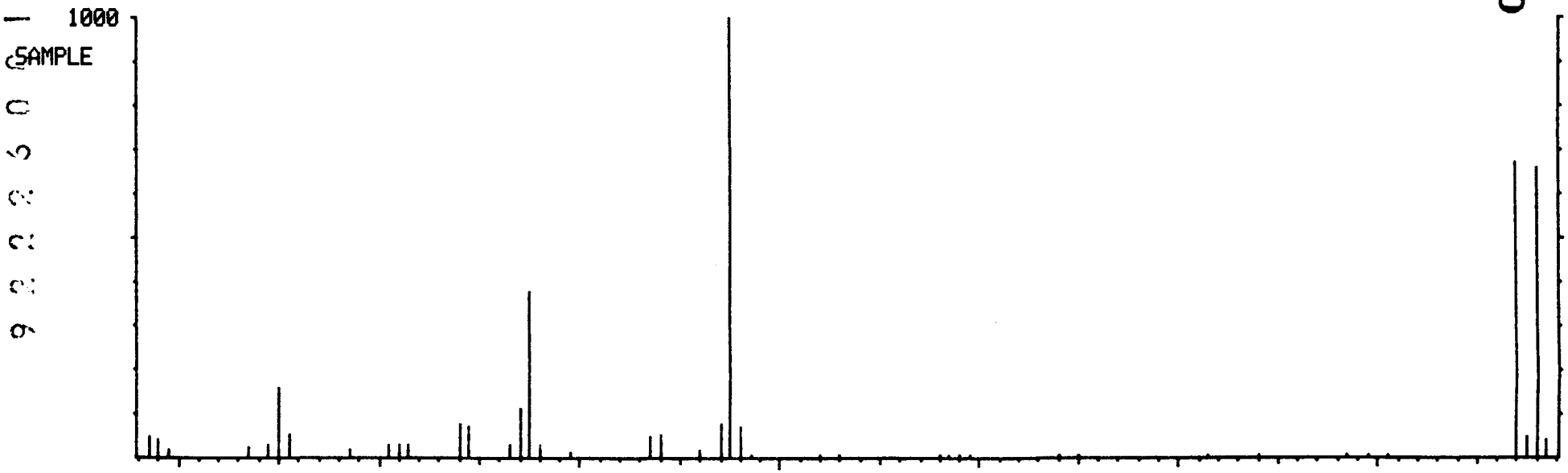
9 2 2 2 6 0 0 1 1 2 2

000456

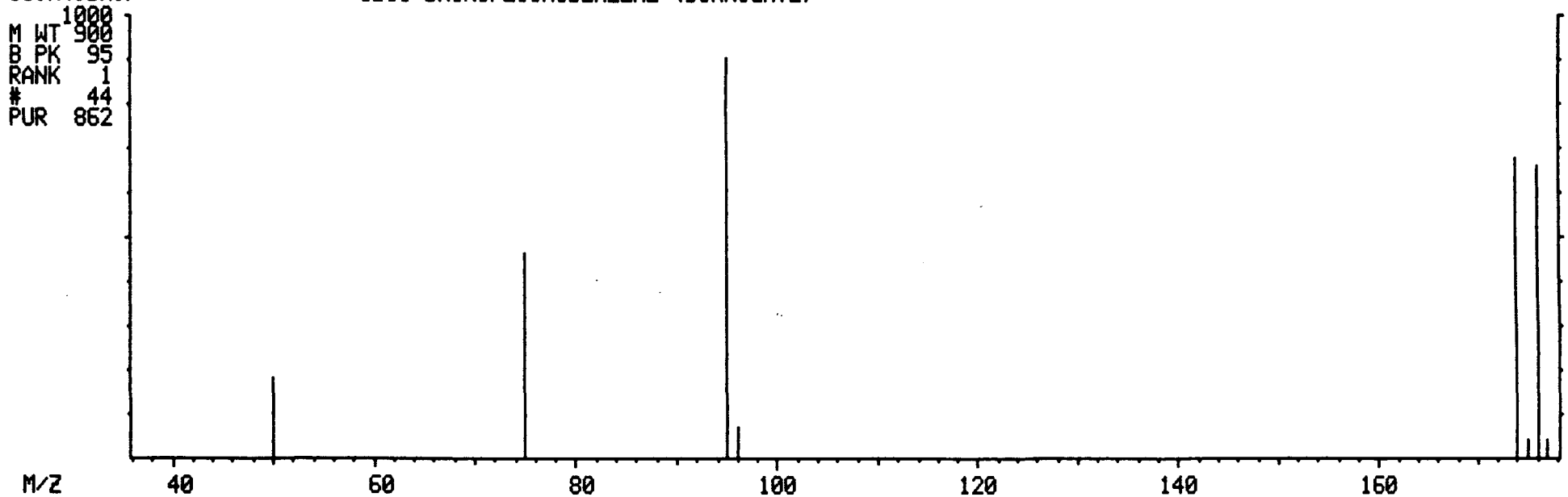
LIBRARY SEARCH
03/29/91 15:52:00 + 21:57
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 #1646
CALI: B0329LC11 # 3

BASE M/Z: 95
RIC: 20351.



C6.H4.BR.F CS10 BROMOFLUOROBENZENE (SURROGATE)

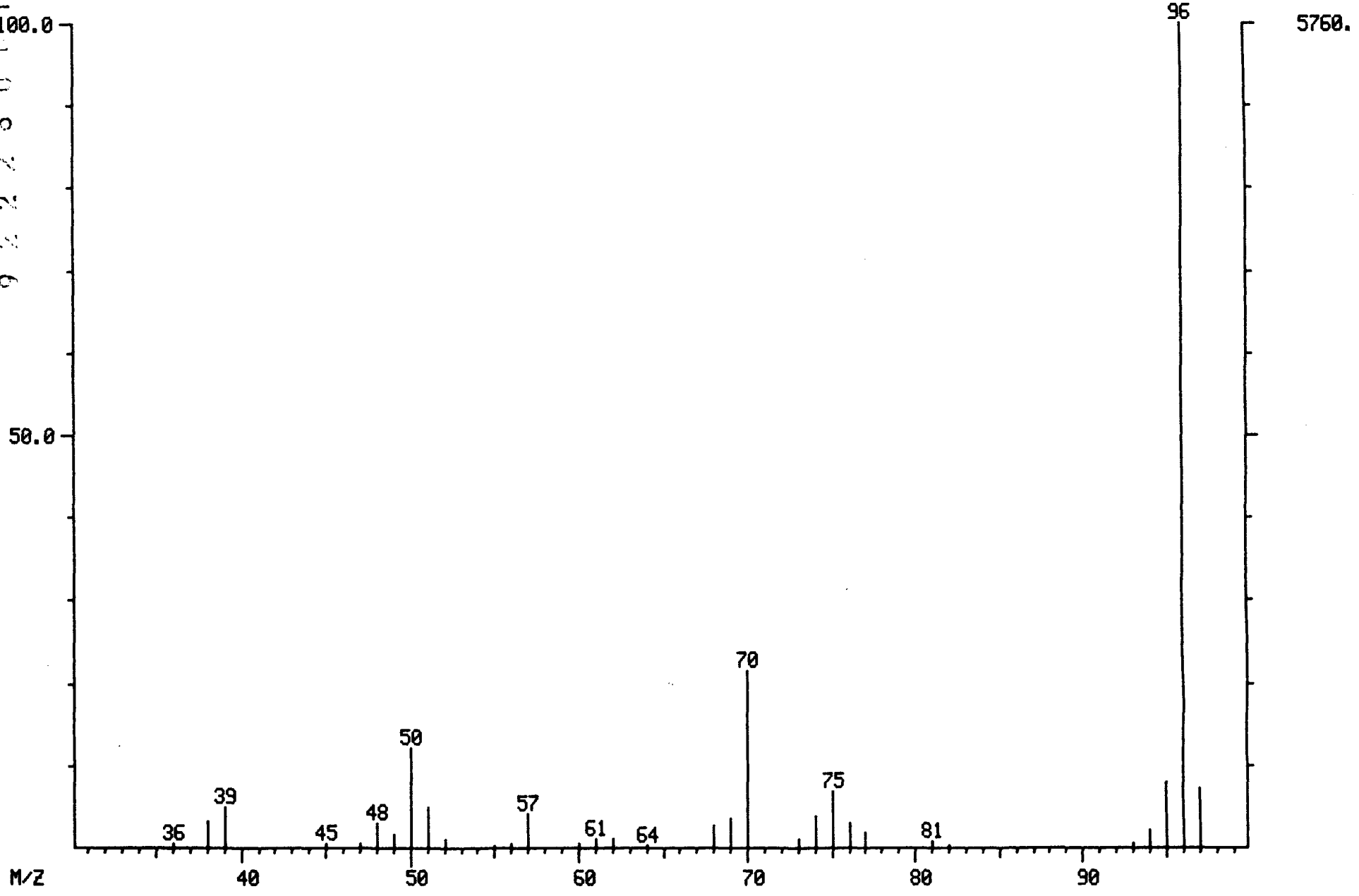


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
03/29/91 15:52:00 + 6:00
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 #450
CALI: B0329LC11 #3

BASE M/Z: 96
RIC: 11792.

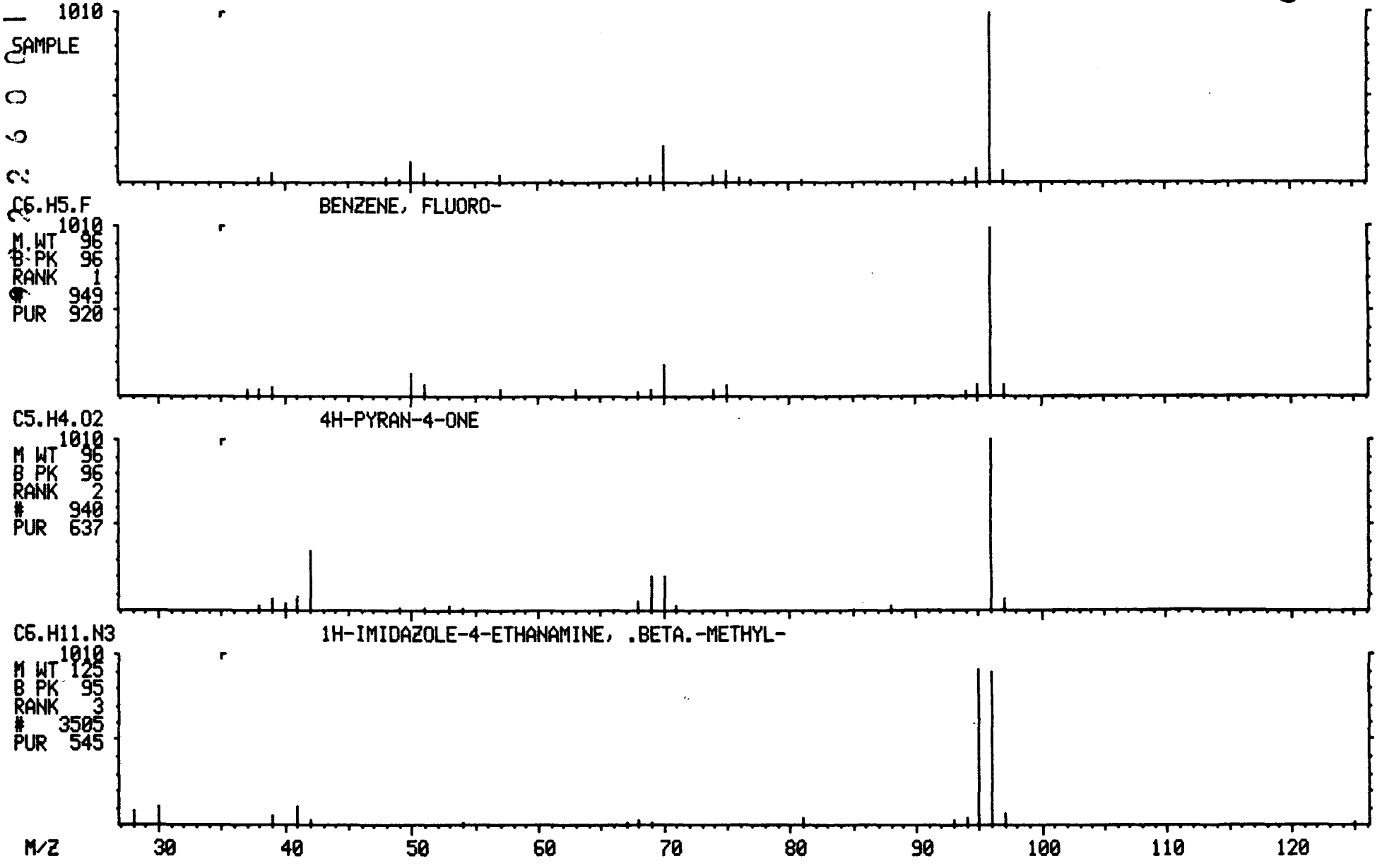


LIBRARY SEARCH
03/29/91 15:52:00 + 6:00
SAMPLE: 90906, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC11 # 450
CALI: B0329LC11 # 3

BASE M/Z: 96
RIC: 11535.

0-5000



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190907

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0401LC08

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 32 Date Analyzed: 04/01/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	7	U
67-64-1	Acetone	5	J
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	15	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
1330-20-7	Xylene (total)	7	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X109

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190907

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0401LC08

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 32 Date Analyzed: 04/01/91

Column (pack/cap) WIDE Dilution Factor: 1.0

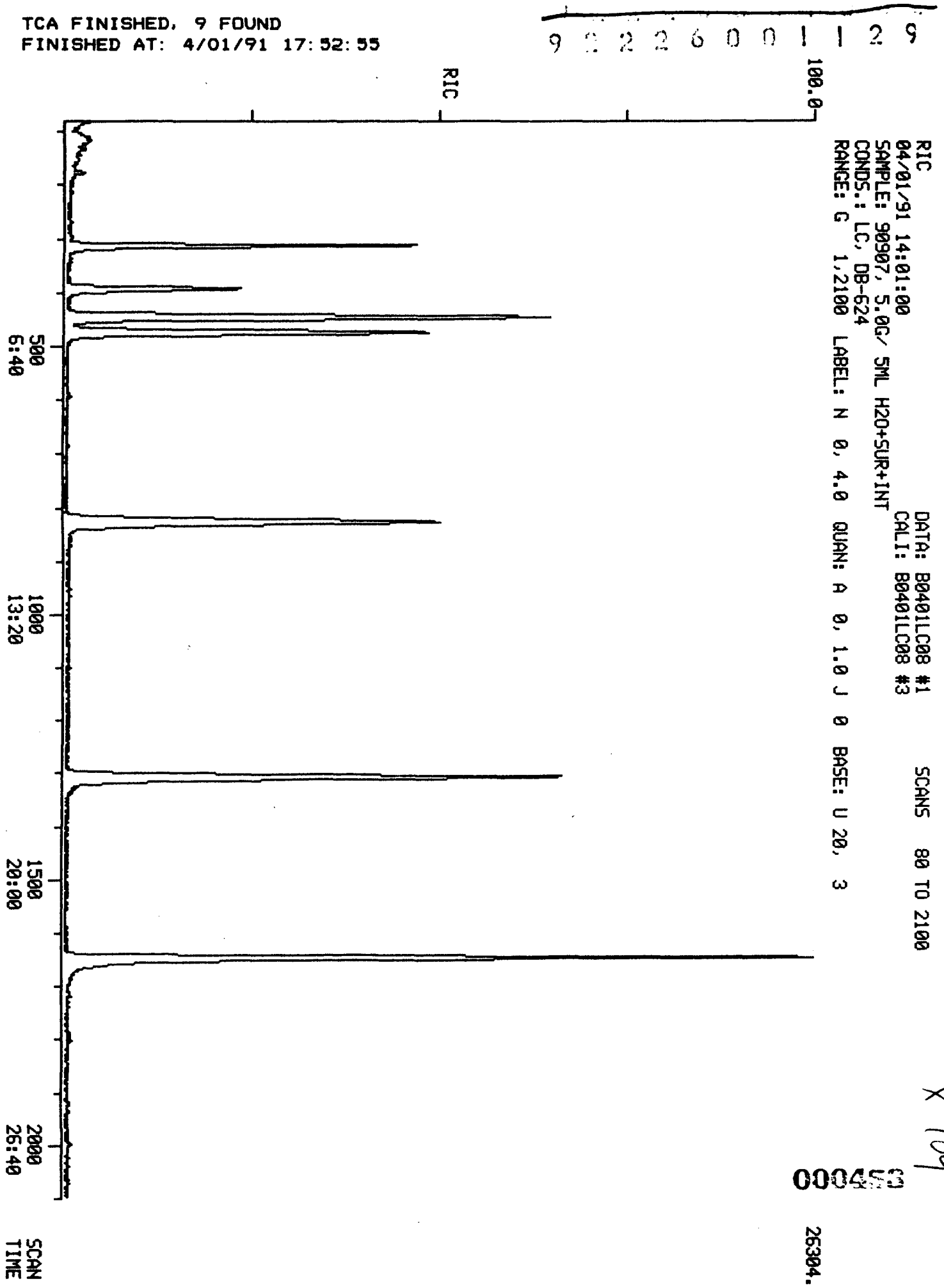
Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000452

TCA FINISHED, 9 FOUND
FINISHED AT: 4/01/91 17:52:55

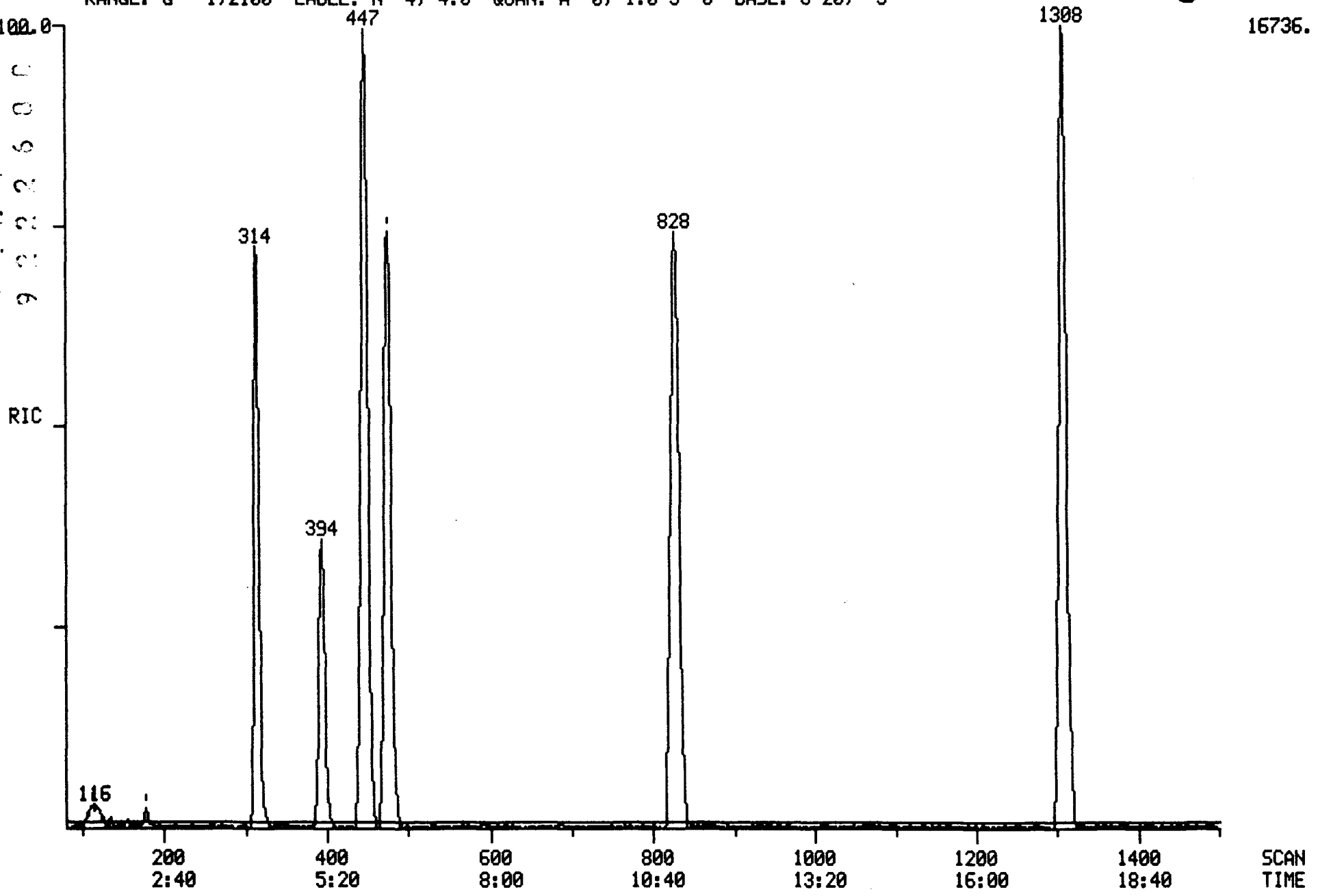


X 109

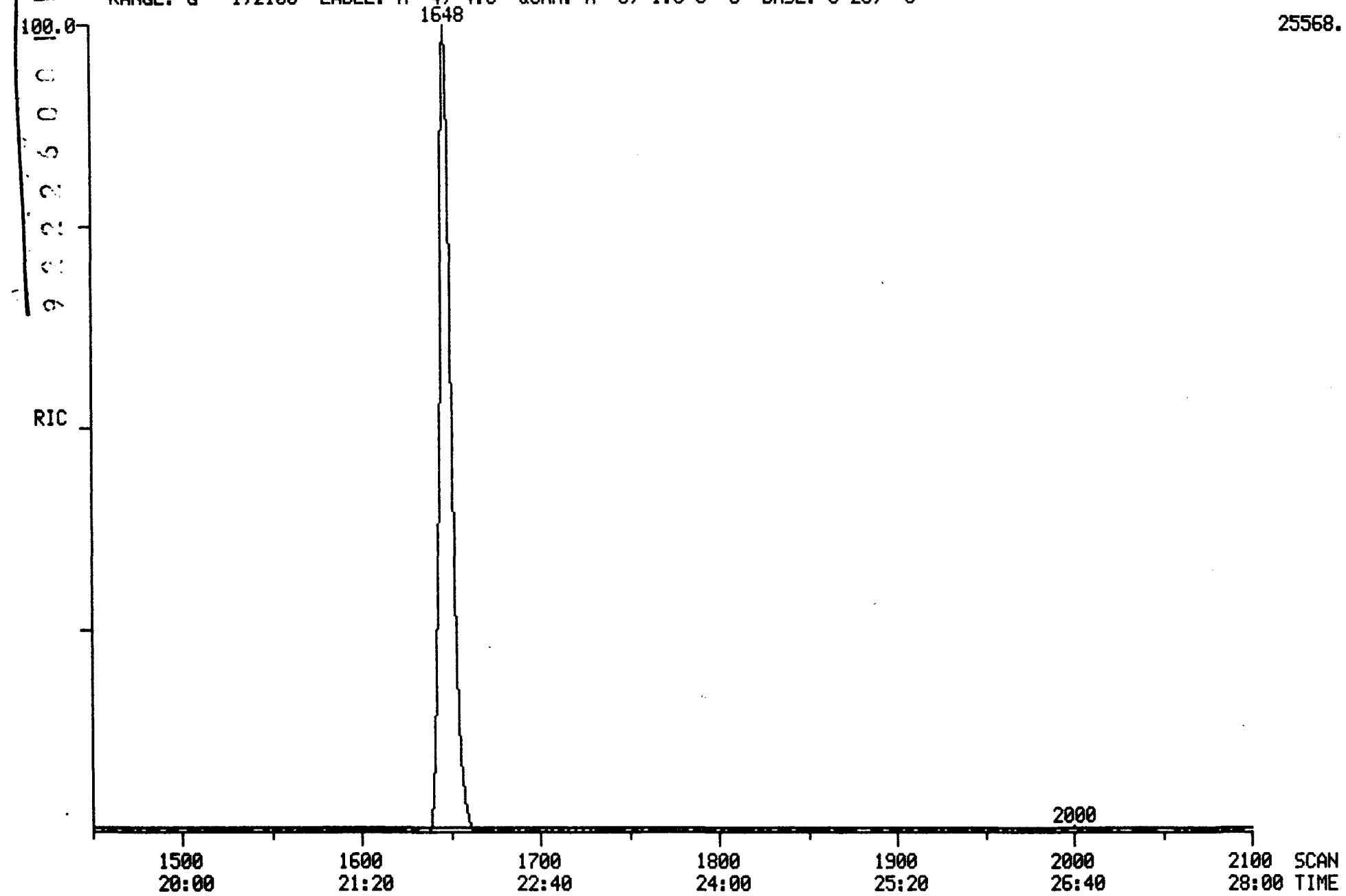
000453

RIC
04/01/91 14:01:00
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0401LC08 #1 SCANS 80 TO 1500
CALI: B0401LC08 #3



RIC DATA: B0401LC08 #1 SCANS 1450 TO 2100
04/01/91 14:01:00 CALI: B0401LC08 #3
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



4/1/91 14:01:50 SCAN 1 OF 2100
Acquisition started

Acquire
04/01/91 14:01:00 + 0:02
Sample: 90907, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0401LC08
Free sectors: 5173
Instrument: 5100
Analyst: LC

Acquiring
Scan: 2 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 31 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10 Samp int (ms): 0.200 Peak width: 1000.
Frag S/P: 10 Actual: 10 Samp int (ms): 0.200 Inten/ion: 2

Min peak width: 3 Min frag width %: 80 Min area: 50
ADC threshold: 2 Baseline: 0

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

000456

4/1/91 14:29:51
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	8.4	1680.0	0.5	22493.	11.	13.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/01/91 14:31:39
DATA FILE: B0401LC08
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	3	119	CLSRT1/CLSTC1
1	1	1	0	13	2	1	0	CLSRT2/CLSTC2
1	1	2	0	16	3	1	14	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 8 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	312	314	314	.	1	973	.	128	314	.	1
2	CS	2	-99	98	.	.	.	.	.	50	.	.	.
3	CS	3	-110	109	.	.	.	.	.	94	.	.	.
4	CS	4	-101	100	.	.	.	.	.	62	.	.	.
5	CS	5	-111	110	.	.	.	.	.	64	.	.	.
6	CS	6	177	177	178	1	1	991	.	84	179	1	1
7	CS	7	155	155	154	-1	3	921	.	43	154	.	1
8	CS	8	-157	157	.	.	.	.	.	76	156	.	1
9	CS	9	-146	146	.	.	.	.	.	96	.	.	.
10	CS	10	-227	228	.	.	.	.	.	63	.	.	.
11	CS	12	-327	329	.	.	.	.	.	83	.	.	.
12	CS	13	-339	342	.	.	.	.	.	97	345	.	2
13	CS	14	-119	118	.	.	.	.	.	101	122	.	3
14	CS	15	-195	195	.	.	.	.	.	96	.	.	.
15	CS	16	-285	287	.	.	.	.	.	96	.	.	.
16	CS	17	470	475	475	.	1	998	.	114	475	.	1
17	CS	18	-399	402	.	.	.	.	.	62	.	.	.
18	CS	19	-276	276	.	.	.	.	.	72	.	.	.
19	CS	20	-341	343	.	.	.	.	.	117	.	.	.
20	CS	21	212	210	.	.	.	.	.	43	209	.	1
21	CS	22	-655	665	.	.	.	.	.	83	.	.	.
22	CS	23	-571	579	.	.	.	.	.	63	.	.	.
23	CS	24	-781	794	.	.	.	.	.	75	.	.	.
24	CS	25	-507	513	.	.	.	.	.	130	.	.	.
25	CS	27	-387	390	.	.	.	.	.	78	.	.	.
26	CS	28	-764	776	.	.	.	.	.	106	.	.	.
27	CS	29	391	394	394	.	1	973	.	65	394	.	1
28	CS	43	-1600	1634	.	.	.	.	.	173	.	.	.
29	CS	30	1302	1308	1308	.	2	995	.	117	1308	.	1
30	CS	26	-1126	1132	.	.	.	.	.	129	.	.	.
31	CS	31	-1004	1011	.	.	.	.	.	97	.	.	.
32	CS	32	-951	958	.	.	.	.	.	75	.	.	.
33	CS	33	-1131	1137	.	.	.	.	.	43	1138	.	2
34	CS	34	-838	845	.	.	.	.	.	43	844	.	1
35	CS	35	-1004	1011	.	.	.	.	.	164	.	.	.
36	CS	36	-1719	1724	.	.	.	.	.	83	.	.	.
37	CS	37	839	846	.	.	.	.	.	91	848	.	2
38	CS	38	1310	1316	.	.	.	.	.	112	1314	.	1
39	CS	39	1361	1367	.	.	.	.	.	106	.	.	.
40	CS	40	-1515	1520	.	.	.	.	.	104	.	.	.
41	CS	41	1401	1407	.	.	.	.	.	106	.	.	.
42	CS	42	1508	1513	.	.	.	.	.	106	.	.	.
43	CS	44	1643	1648	1648	.	1	990	.	95	1648	.	1
44	CS	45	821	828	828	.	1	992	.	98	828	.	1

000458

Quantitation Report File: B0401LC08

Data: B0401LC08.TI
04/01/91 14:01:00
Sample: 90907, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	314	4:11	1	1.000	A BB	10185.	50.000 UG/G	10.77
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	179	2:23	1	0.570	A BB	401.	~~1.558~~ UG/G	0.34
7	43	154	2:03	1	0.490	A BB	415.	3.203 UG/G	0.69
8	76	156	2:05	1	0.497	A BB	61.	~~0.061~~ UG/G	0.01
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	97	345	4:36	1	1.099	A*BB	68.	~~0.189~~ UG/G	0.04
13	101	122	1:38	1	0.389	A*BB	120.	~~1.020~~ UG/G	0.22
14	NOT FOUND								
15	NOT FOUND								
16	114	475	6:20	16	1.000	A BB	48323.	50.000 UG/G	10.77
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	43	209	2:47	16	0.440	A VB	43.	~~0.173 UG~~/G	0.04
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	65	394	5:15	16	0.829	A BB	14031.	99.943 %	21.53
28	NOT FOUND								
29	117	1308	17:26	29	1.000	A BB	52171.	50.000 UG/G	10.77
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	1138	15:10	29	0.870	A*BB	107.	~~0.231~~ UG/G	0.05
34	43	844	11:15	29	0.645	A VB	32.	~~0.088~~ UG/G	0.02
35	NOT FOUND								
36	NOT FOUND								
37	91	848	11:18	29	0.648	A*BB	56.	~~0.058~~ UG/G	0.01
38	112	1314	17:31	29	1.005	A BB	64.	~~0.061~~ UG/G	0.01
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	95	1648	21:58	29	1.260	A BB	53794.	101.756 %	21.92
44	98	828	11:02	29	0.633	A BB	53852.	106.095 %	22.85

Quantitation Report File: B0401LC08A

Data: B0401LC08.TI
04/01/91 14:01:00
Sample: 90907, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

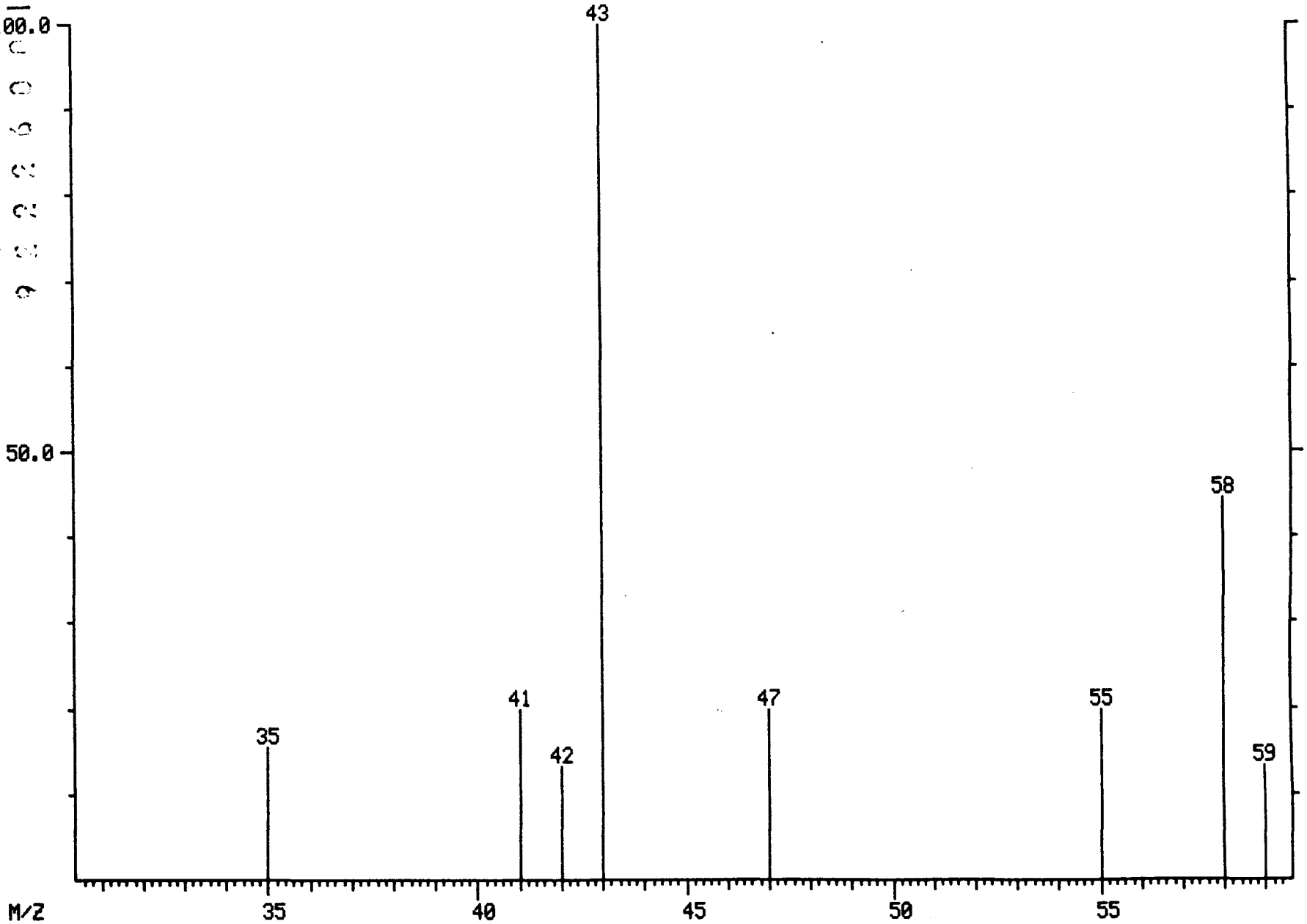
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	447	5:58	1	1.000	A BB	164642.	66.200	*100.

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/01/91 14:01:00 + 2:03
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 #154
CALI: B0401LC08 #3

BASE M/Z: 43
RIC: 111.



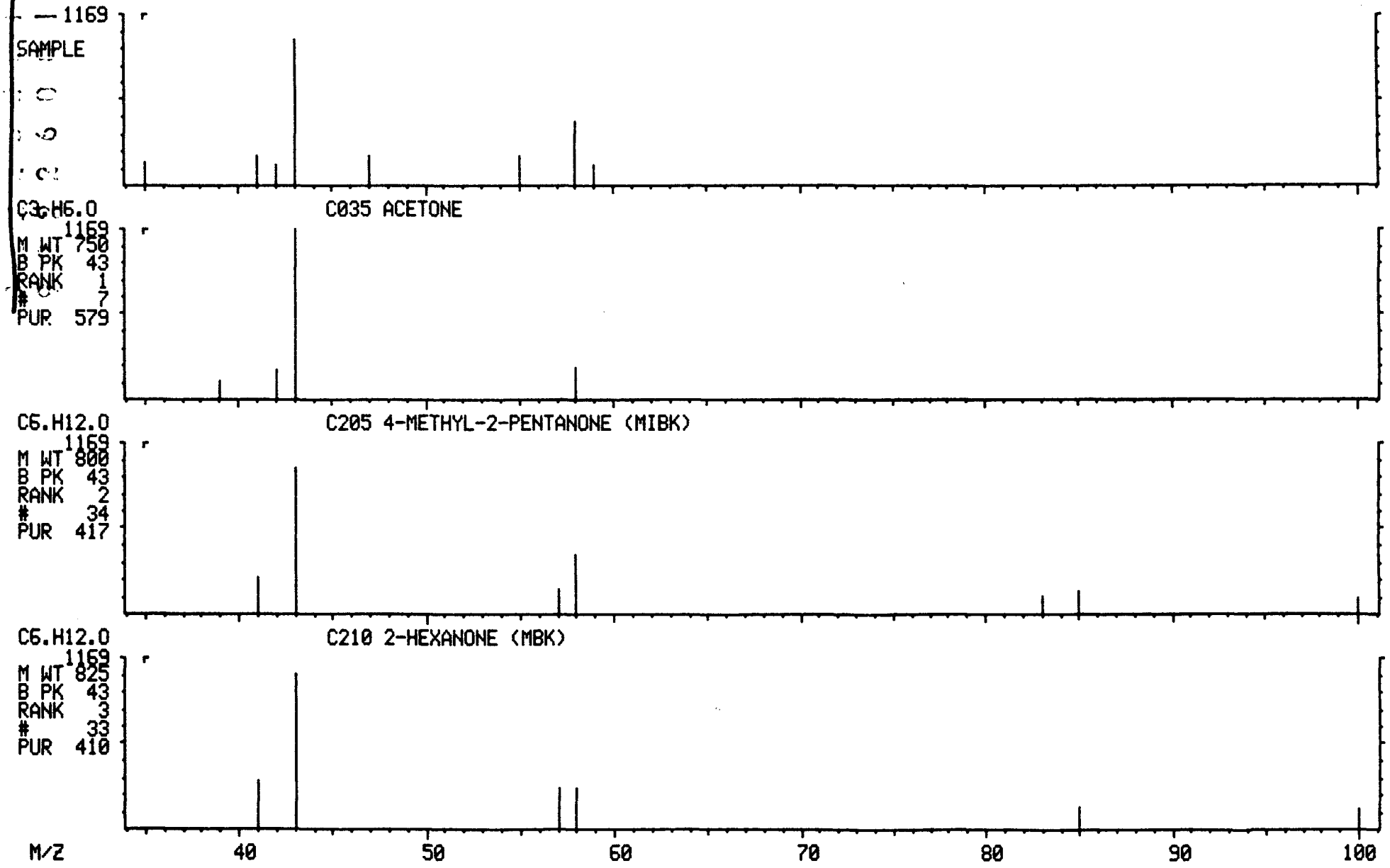
45.

0004463

LIBRARY SEARCH
04/01/91 14:01:00 + 2:03
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 # 154
CALI: B0401LC08 # 3

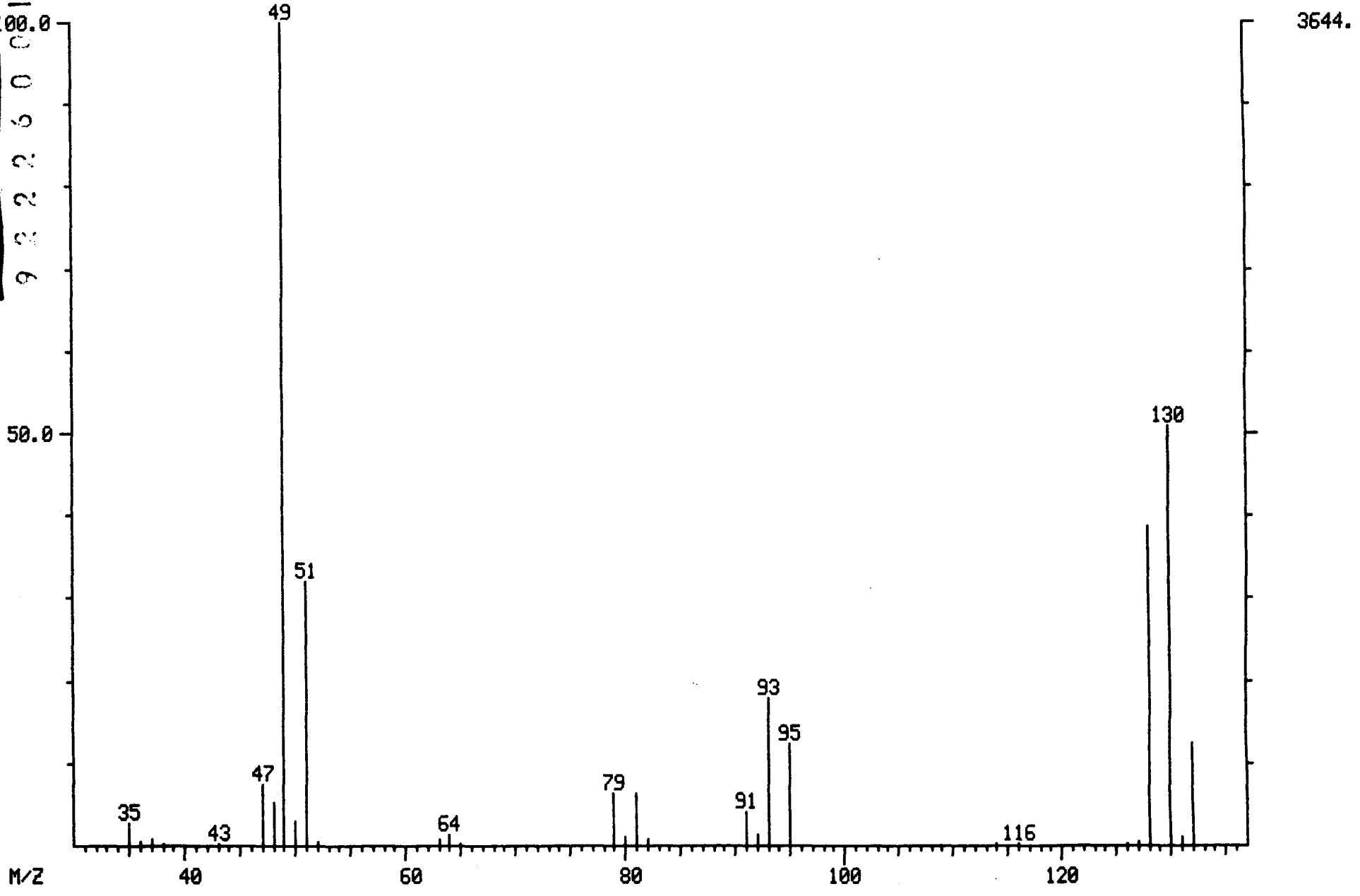
BASE M/Z: 43
RIC: 110.



MASS SPECTRUM
04/01/91 14:01:00 + 4:11
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 #314
CALI: B0401LC08 #3

BASE M/Z: 49
RIC: 11344.

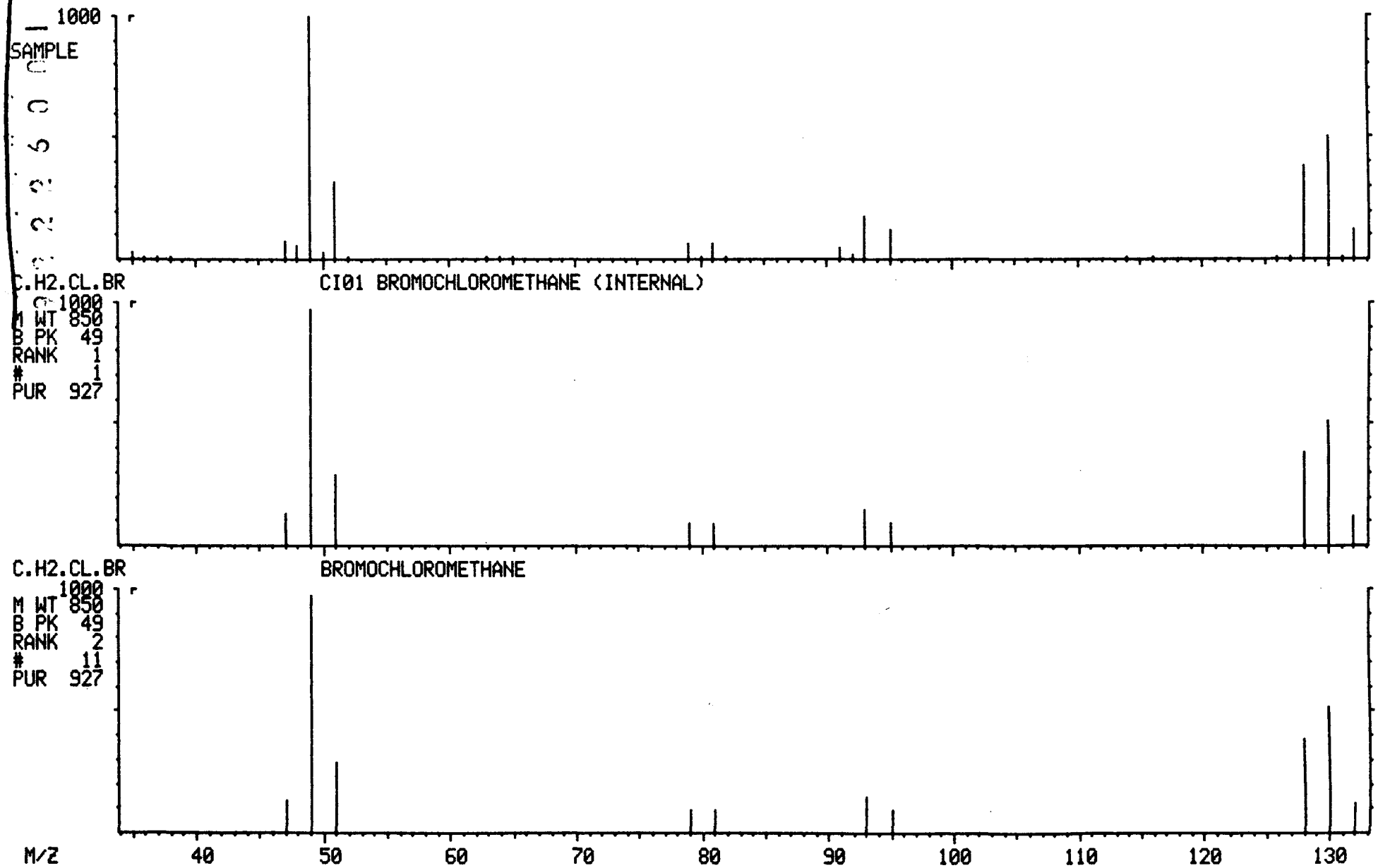


000465

LIBRARY SEARCH
04/01/91 14:01:00 + 4:11
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 # 314
CALI: B0401LC08 # 3

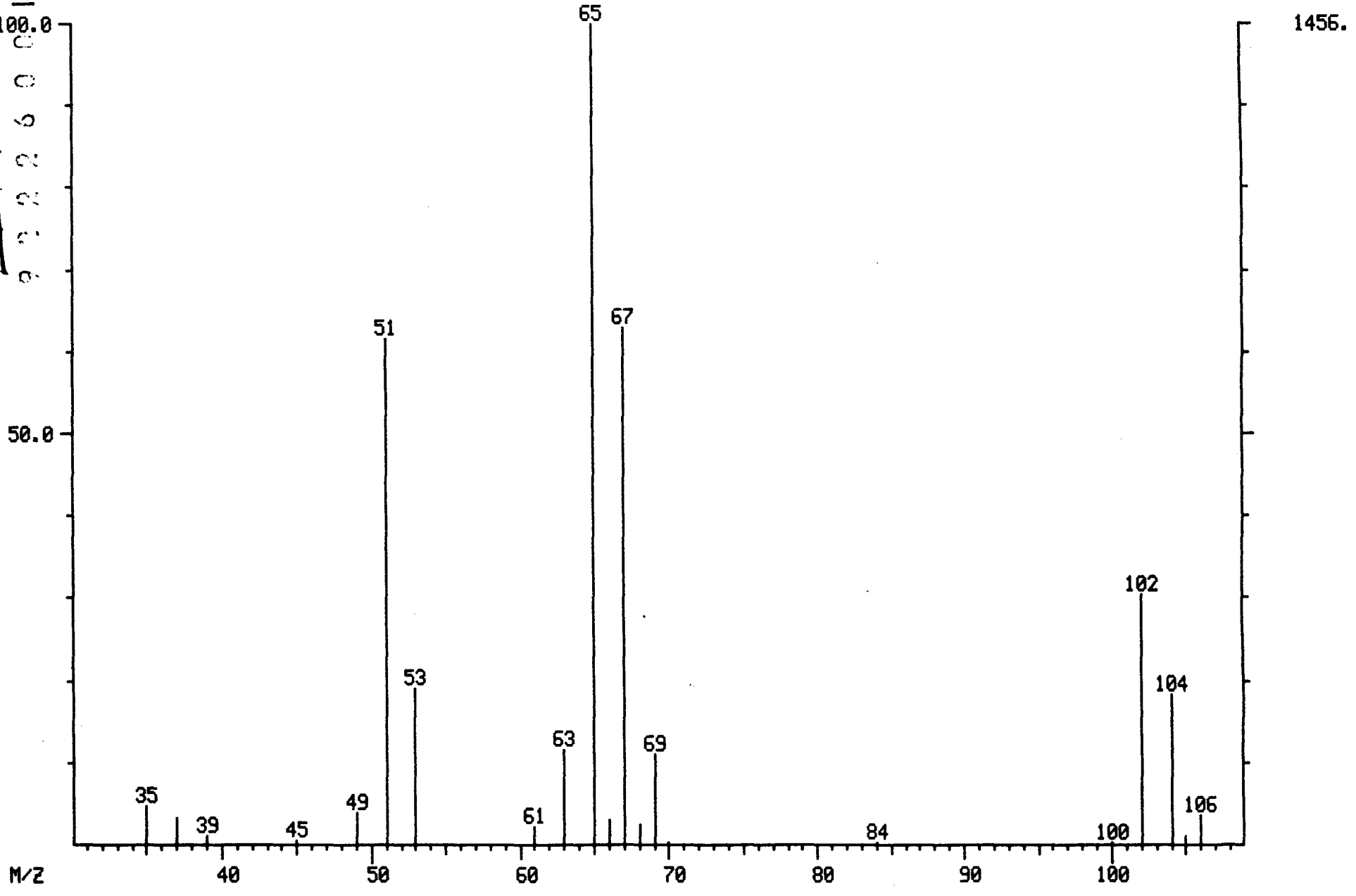
BASE M/Z: 49
RIC: 11327.



MASS SPECTRUM
04/01/91 14:01:00 + 5:15
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 #394
CALI: B0401LC08 #3

BASE M/Z: 65
RIC: 4984.

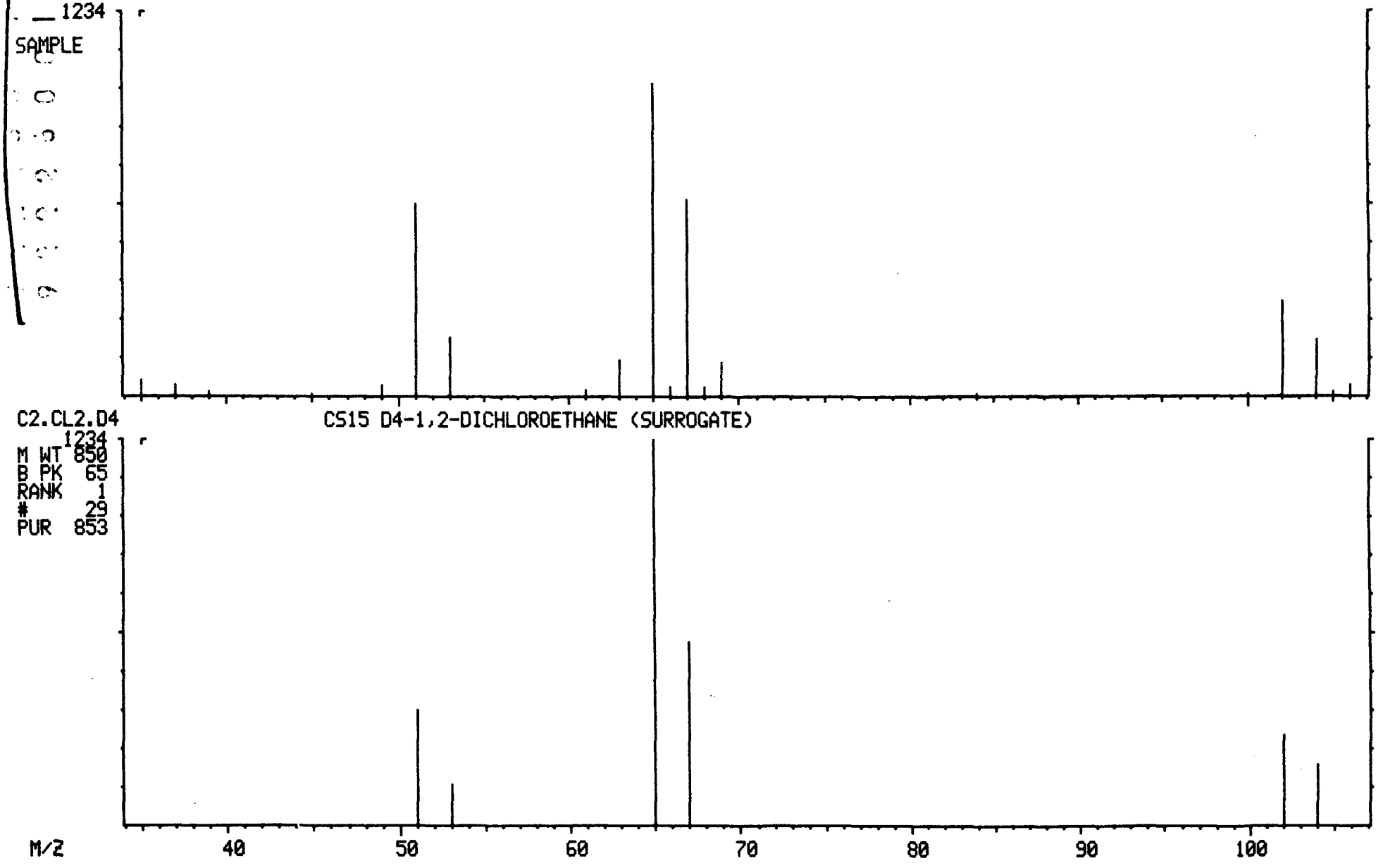


004467

LIBRARY SEARCH
04/01/91 14:01:00 + 5:15
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 # 394
CALI: B0401LC08 # 3

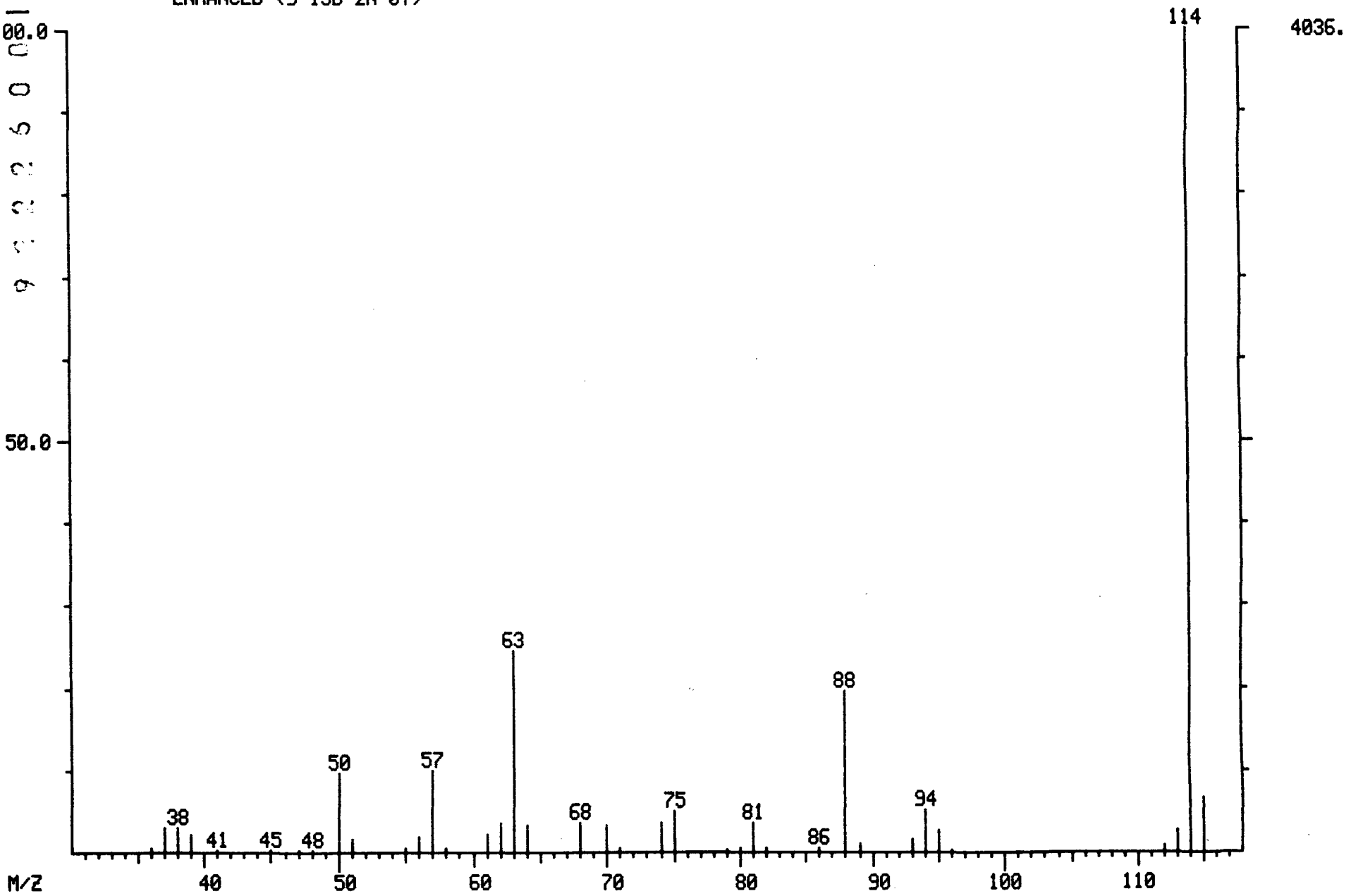
BASE M/Z: 65
RIC: 4975.



MASS SPECTRUM
04/01/91 14:01:00 + 6:20
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 #475
CALI: B0401LC08 #3

BASE M/Z: 114
RIC: 9344.



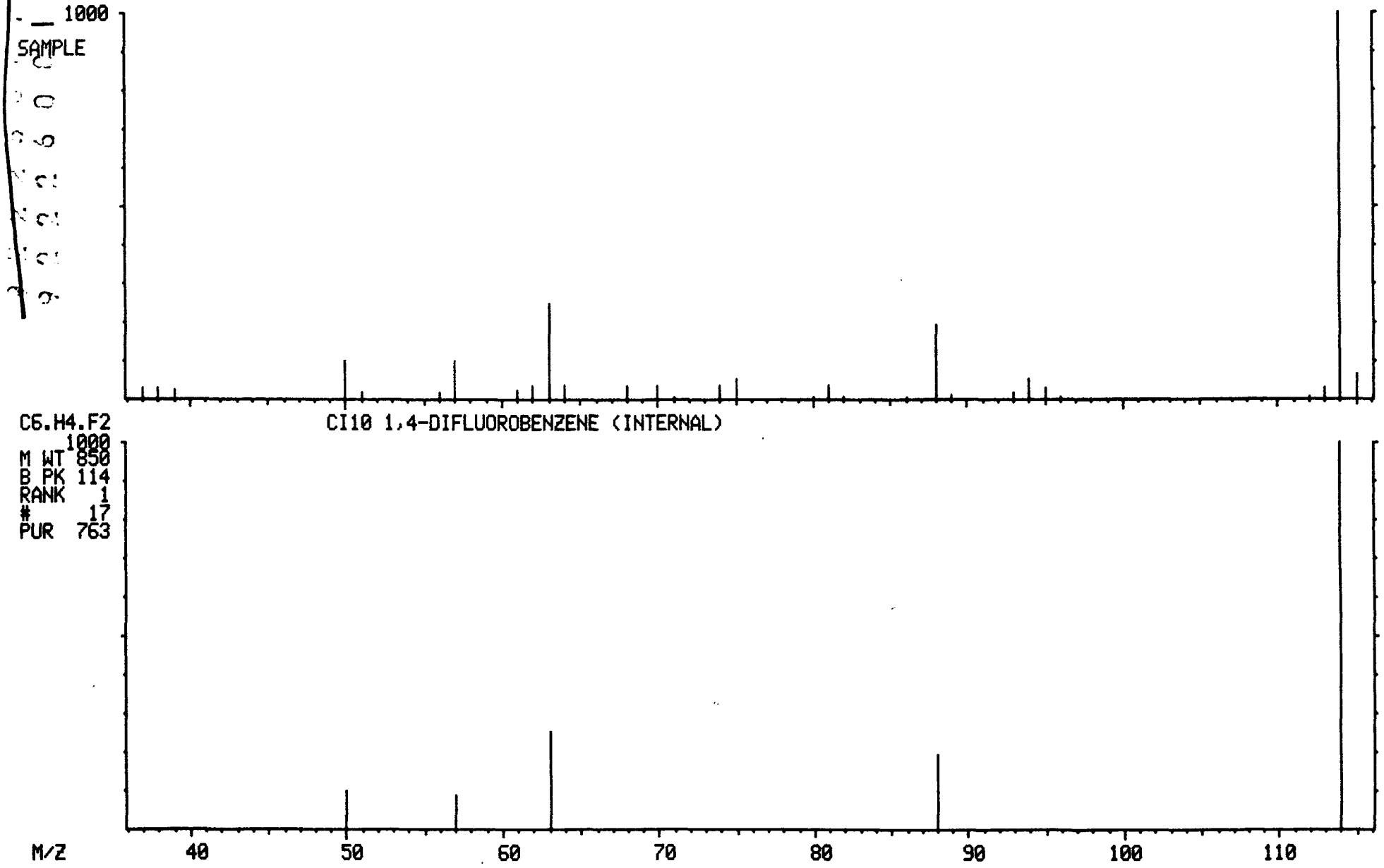
000469

LIBRARY SEARCH
04/01/91 14:01:00 + 6:20
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 # 475
CALI: B0401LC08 # 3

BASE M/Z: 114
RIC: 9199.

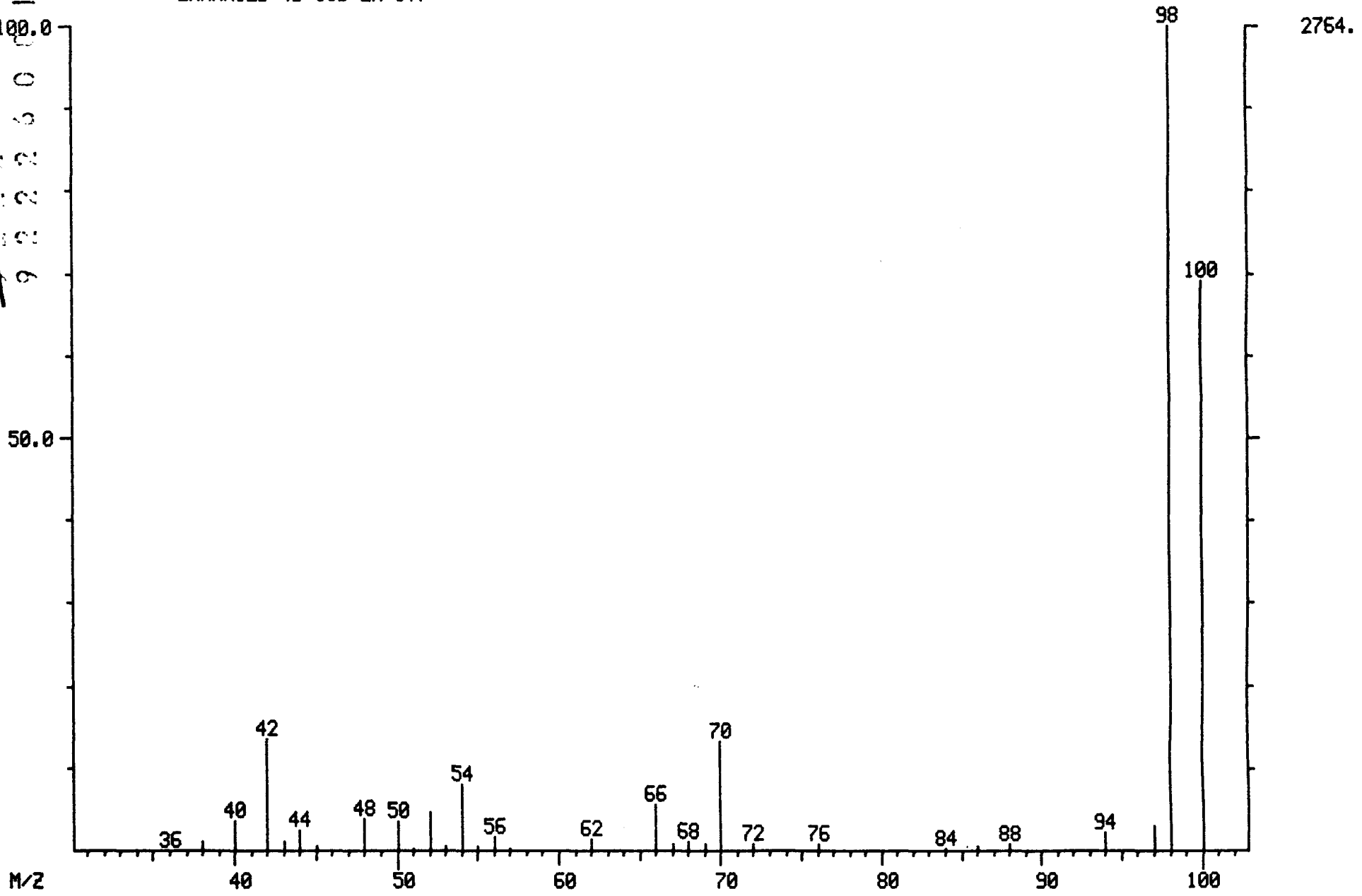
000470



MASS SPECTRUM
04/01/91 14:01:00 + 11:02
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 #828
CALI: B0401LC08 #3

BASE M/Z: 98
RIC: 6808.

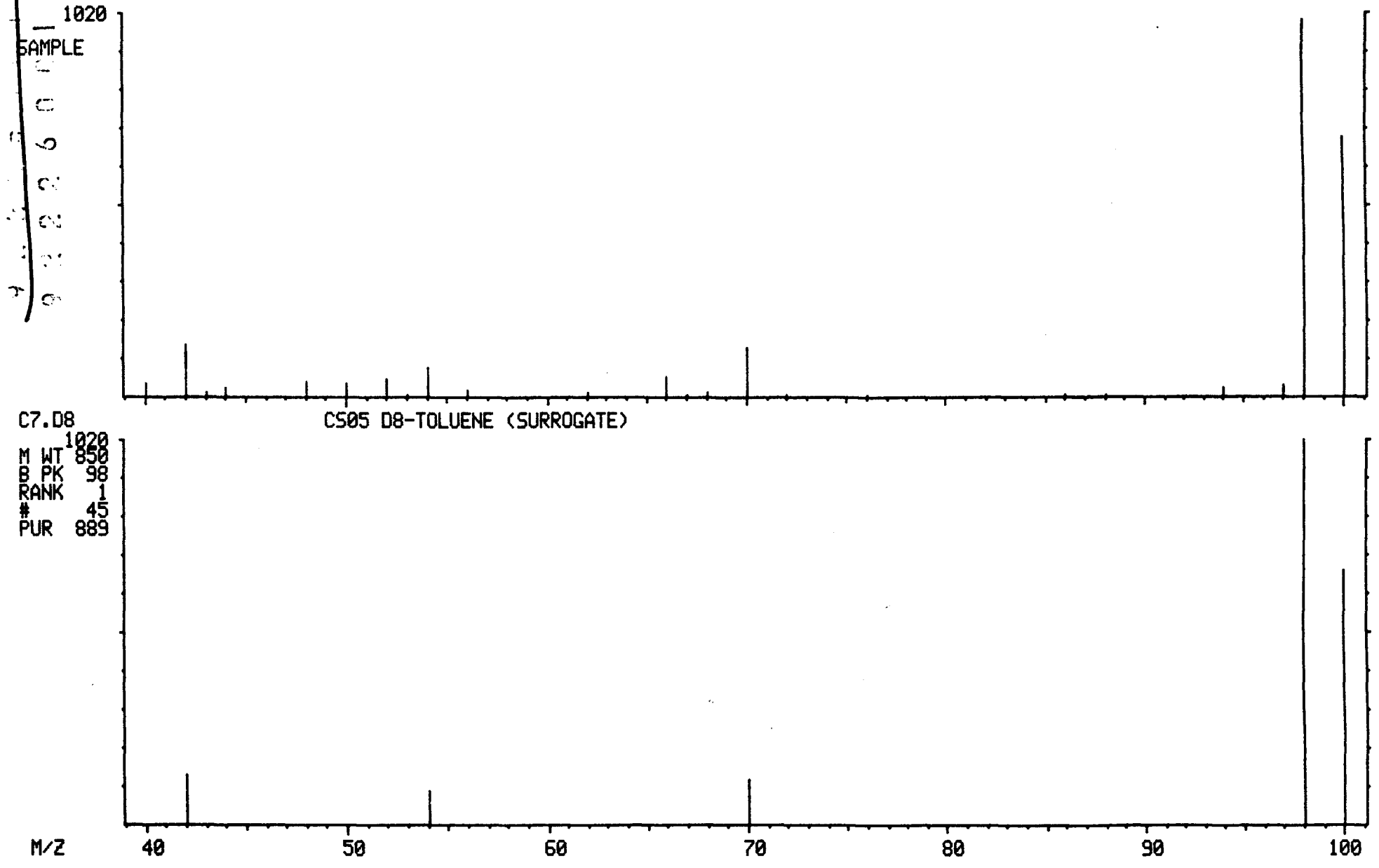


000471

LIBRARY SEARCH
04/01/91 14:01:00 + 11:02
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 # 828
CALI: B0401LC08 # 3

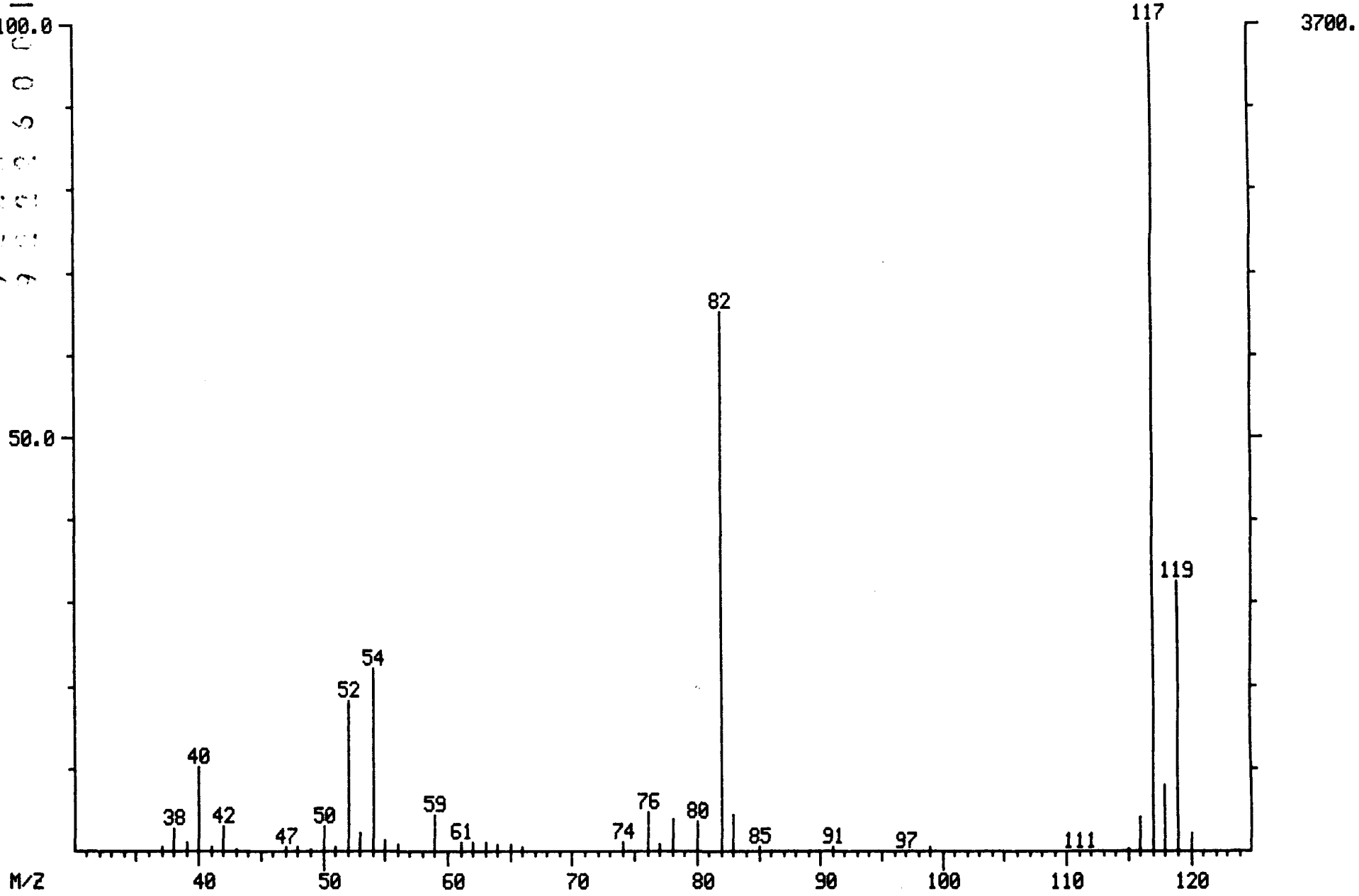
BASE M/Z: 98
RIC: 6703.



MASS SPECTRUM
04/01/91 14:01:00 + 17:26
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 #1308
CALI: B0401LC08 #3

BASE M/Z: 117
RIC: 11504.

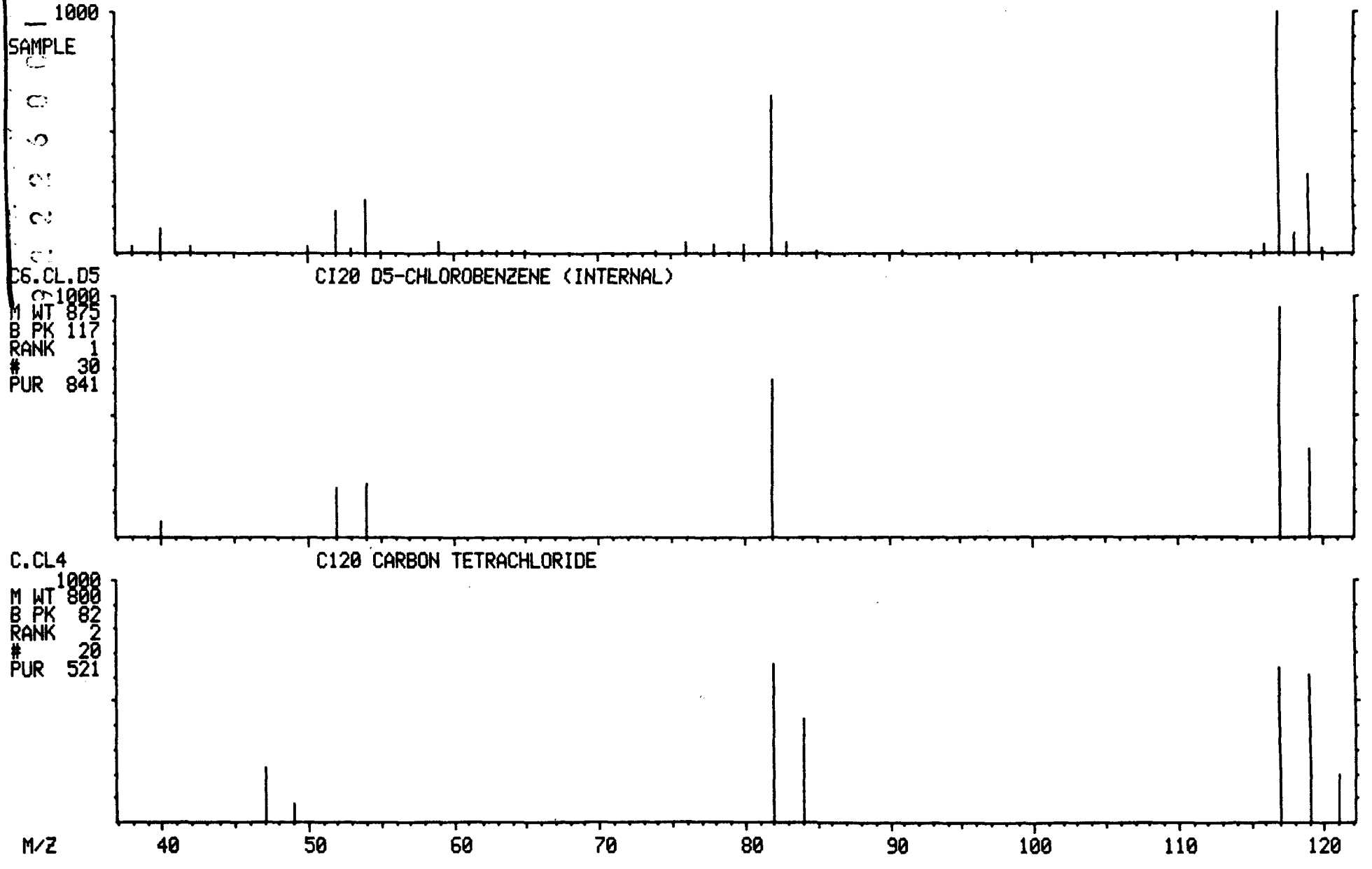


000473

LIBRARY SEARCH
04/01/91 14:01:00 + 17:26
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 #1308
CALI: B0401LC08 # 3

BASE M/Z: 117
RIC: 11247.

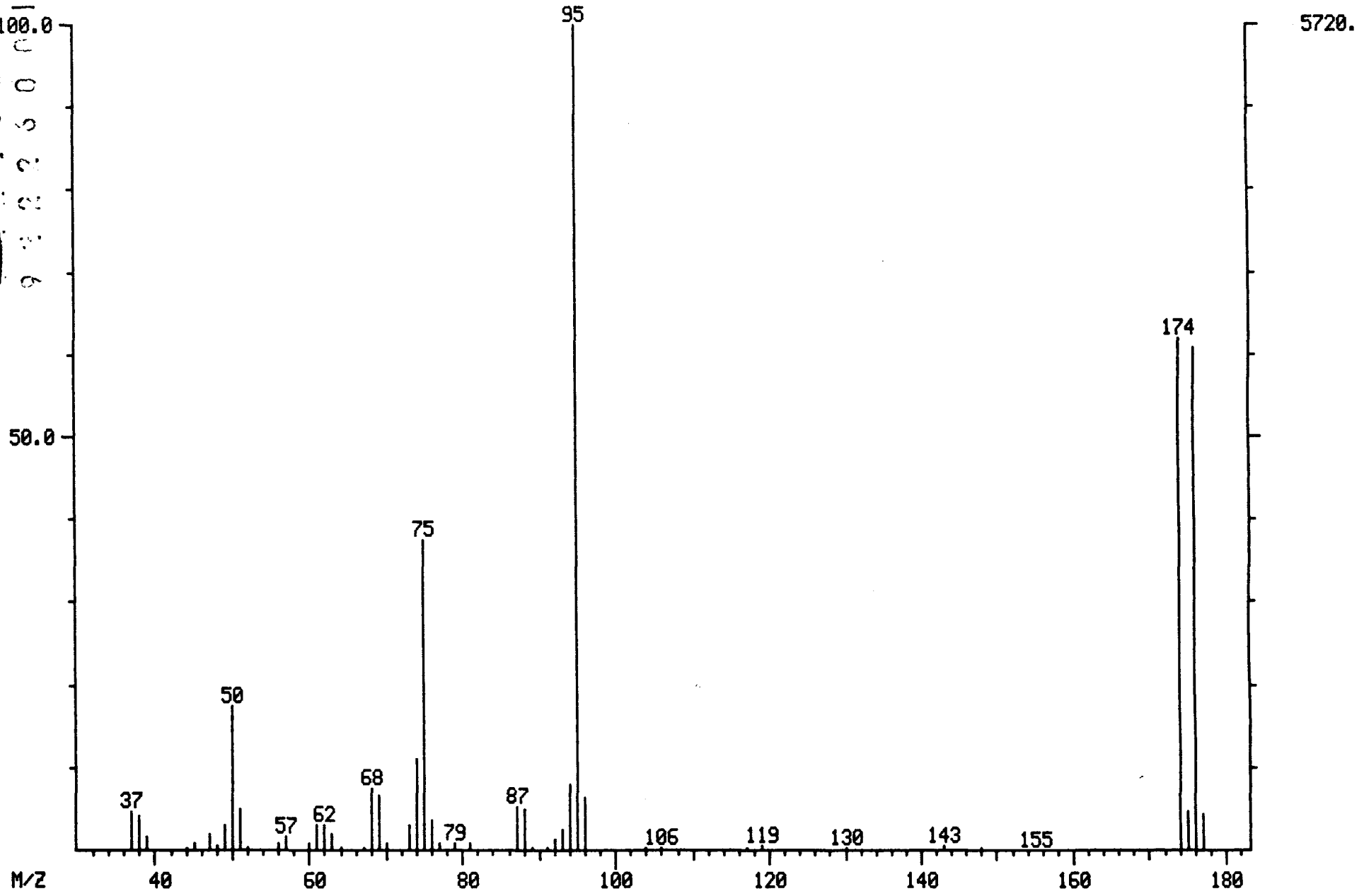


000474

MASS SPECTRUM
04/01/91 14:01:00 + 21:58
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 #1648
CALI: B0401LC08 #3

BASE M/Z: 95
RIC: 22272.

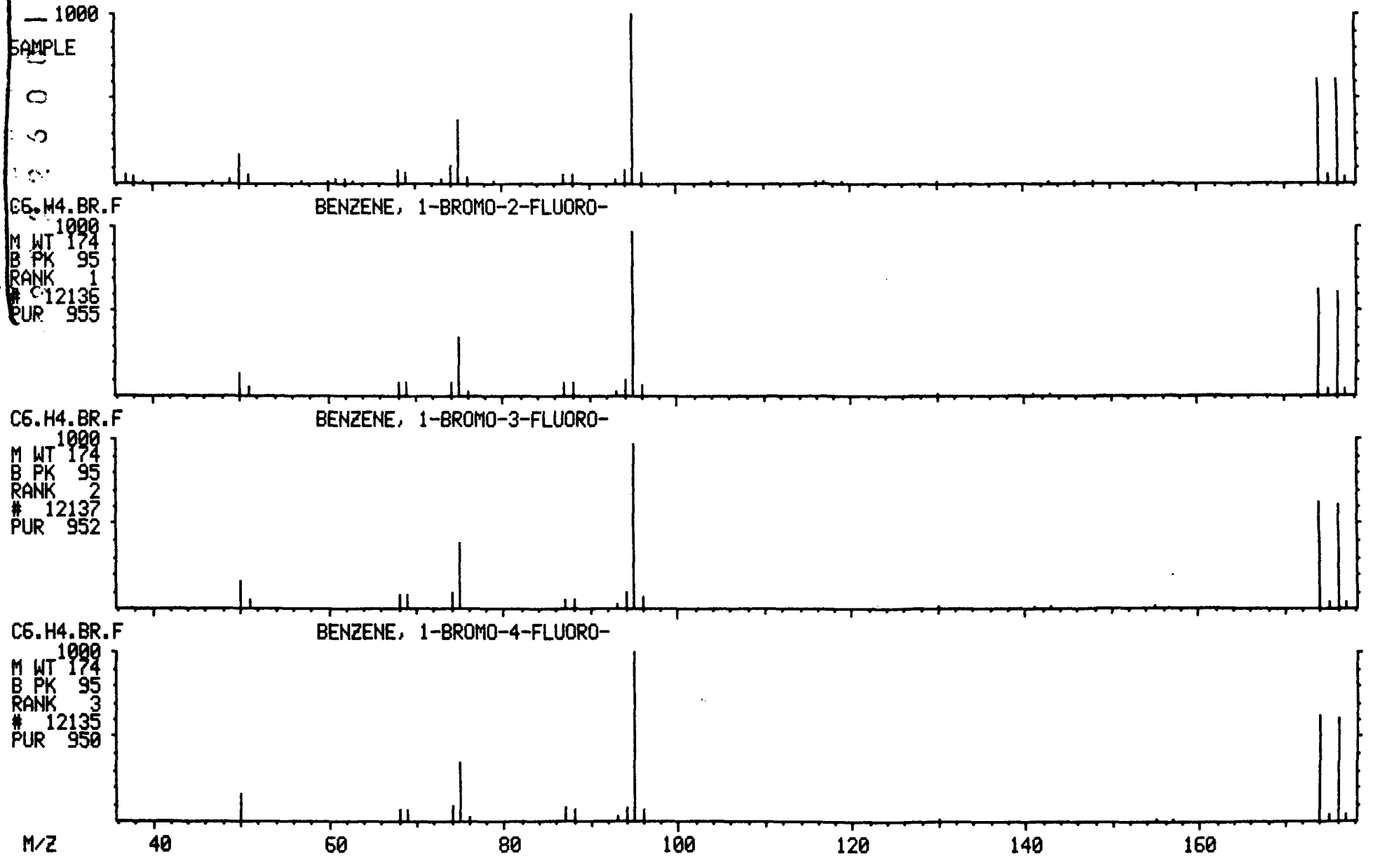


002475

LIBRARY SEARCH
04/01/91 14:01:00 + 21:58
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 #1648
CALI: B0401LC08 # 3

BASE M/Z: 95
RIC: 21791.



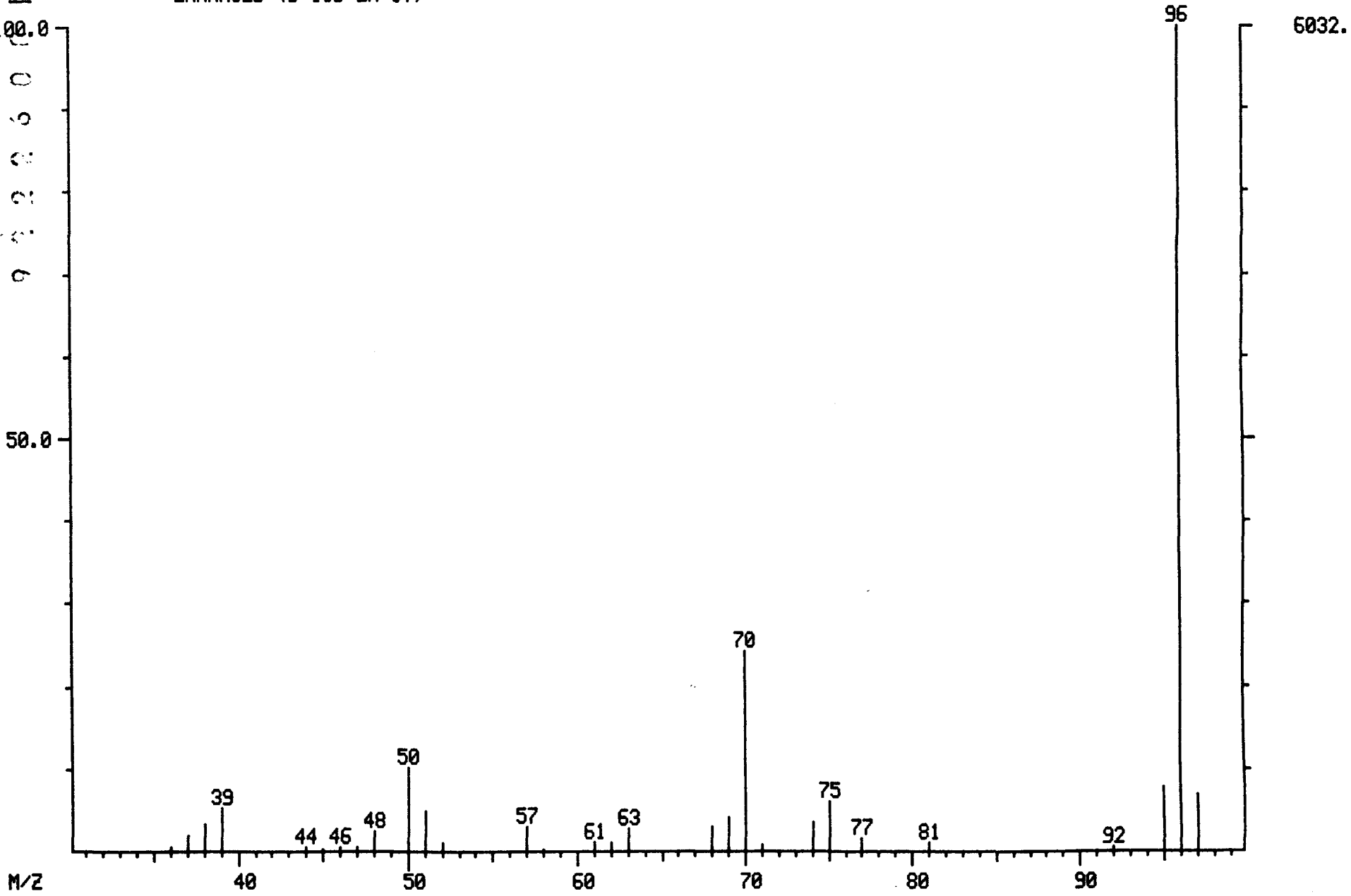
00047600

NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/01/91 14:01:00 + 5:58
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 #447
CALI: B0401LC08 #3

BASE M/Z: 96
RIC: 12096.

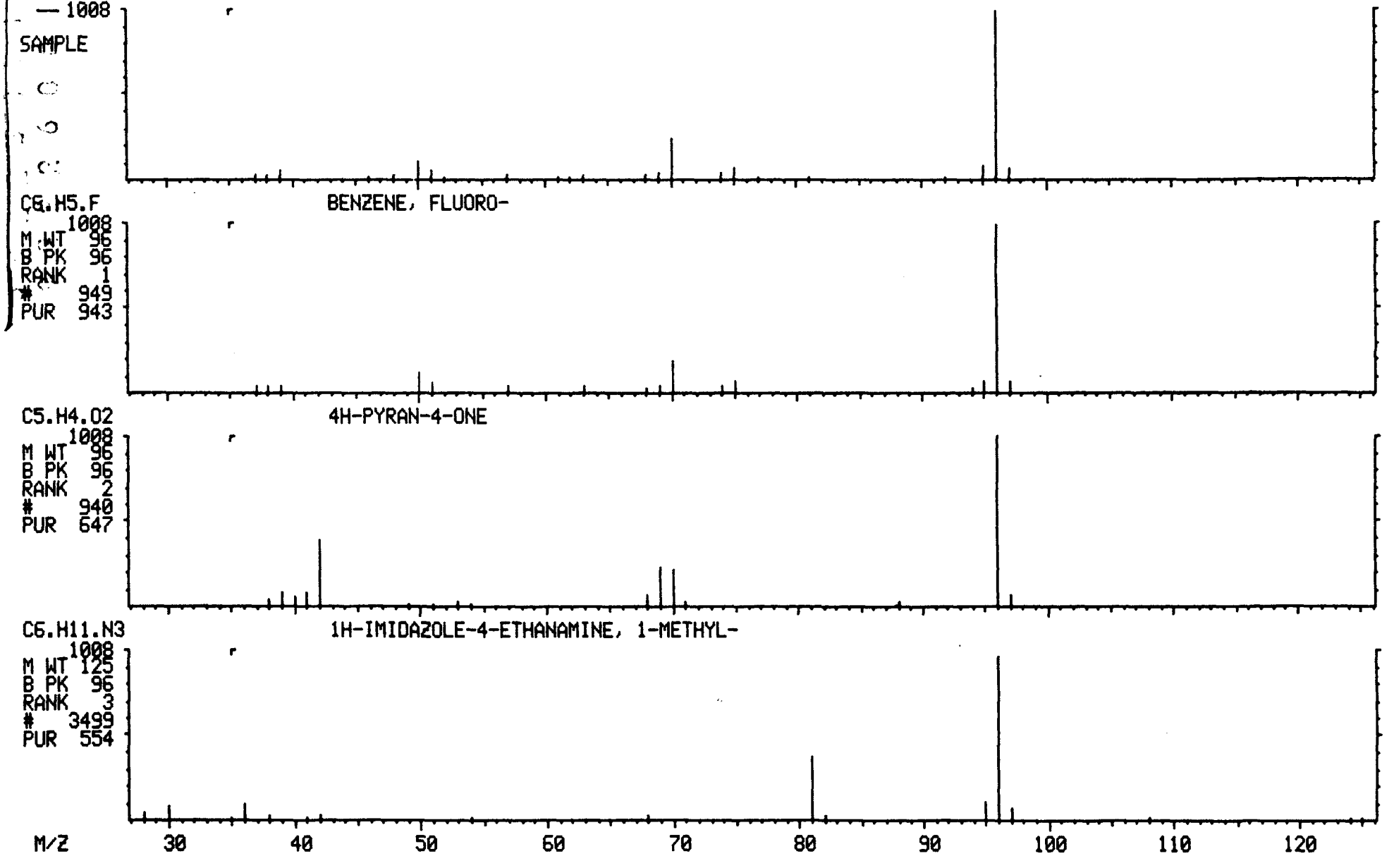


00047800

LIBRARY SEARCH
04/01/91 14:01:00 + 5:58
SAMPLE: 90907, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC08 # 447
CALI: B0401LC08 # 3

BASE M/Z: 96
RIC: 11903.



00047-9

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190908

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0402LC05

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 25 Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	7	U
67-64-1	Acetone	18	
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	9	J
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
1330-20-7	Xylene (total)	7	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X110

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190908

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0402LC05

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 25 Date Analyzed: 04/02/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

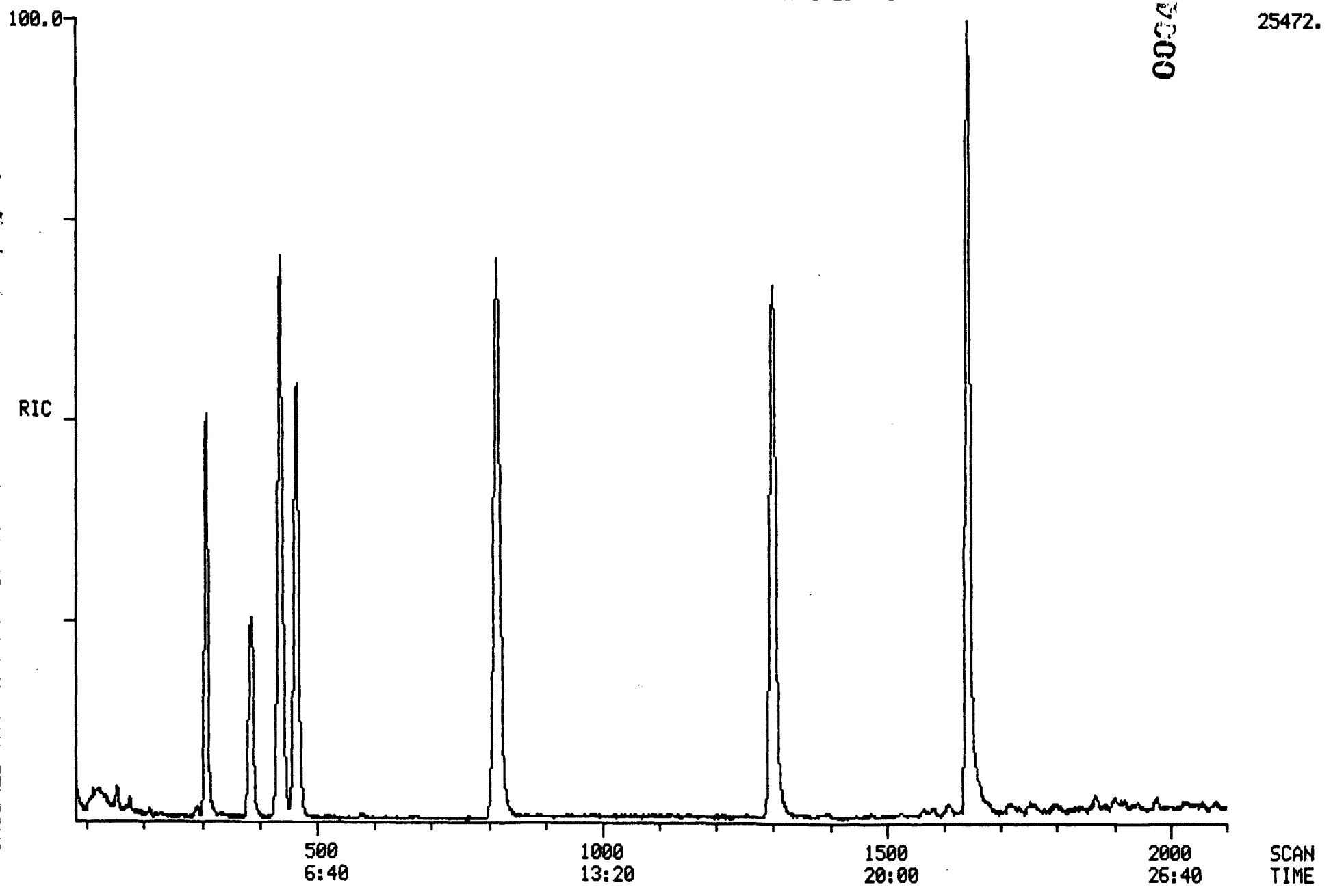
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

X 110

RIC
04/02/91 12:39:00
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC05 #1
CALI: B0402LC05 #3

SCANS 80 TO 2100

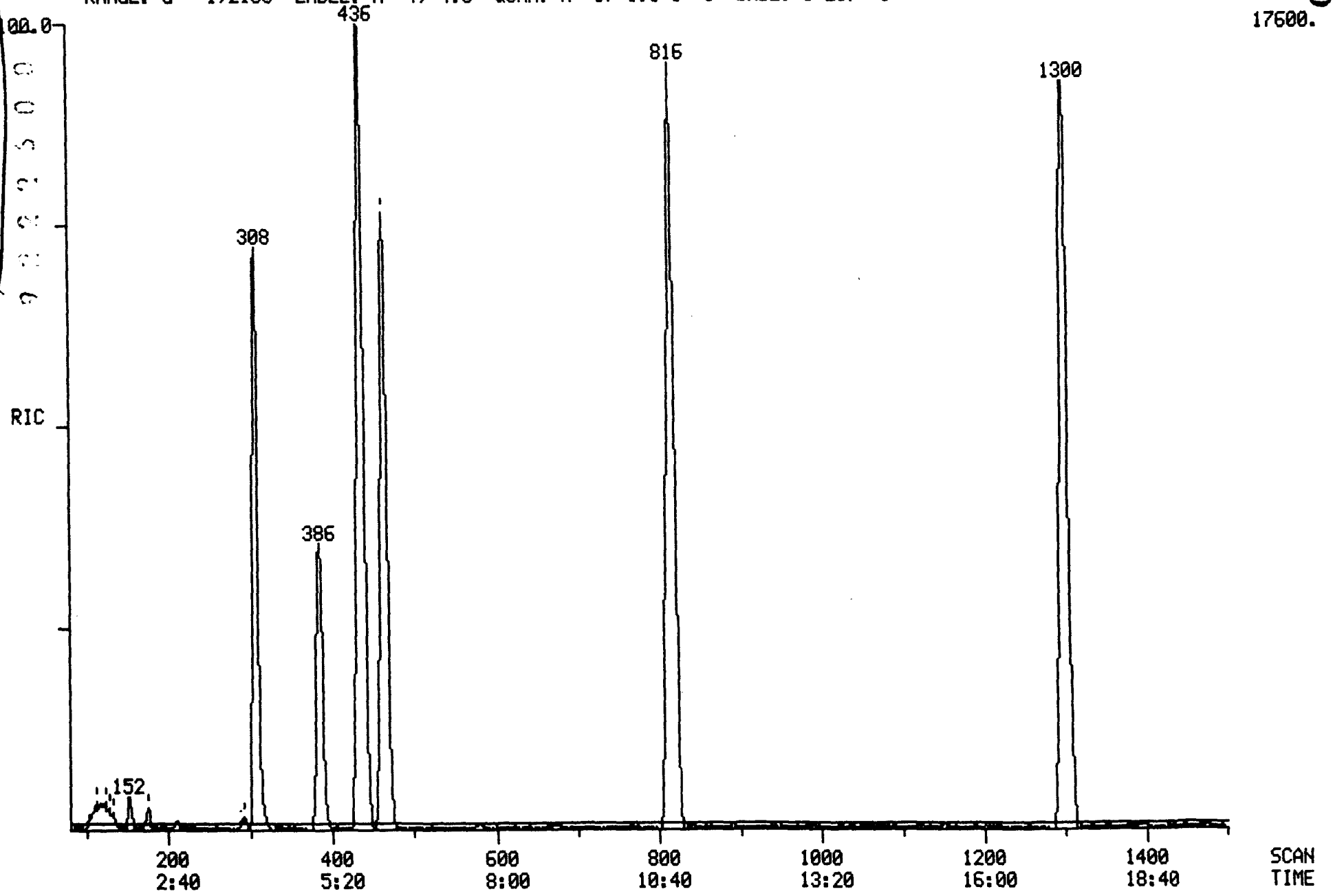


TCA FINISHED, 10 FOUND
FINISHED AT: 4/02/91 17:19:36

RIC
04/02/91 12:39:00
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC05 #1
CALI: B0402LC05 #3

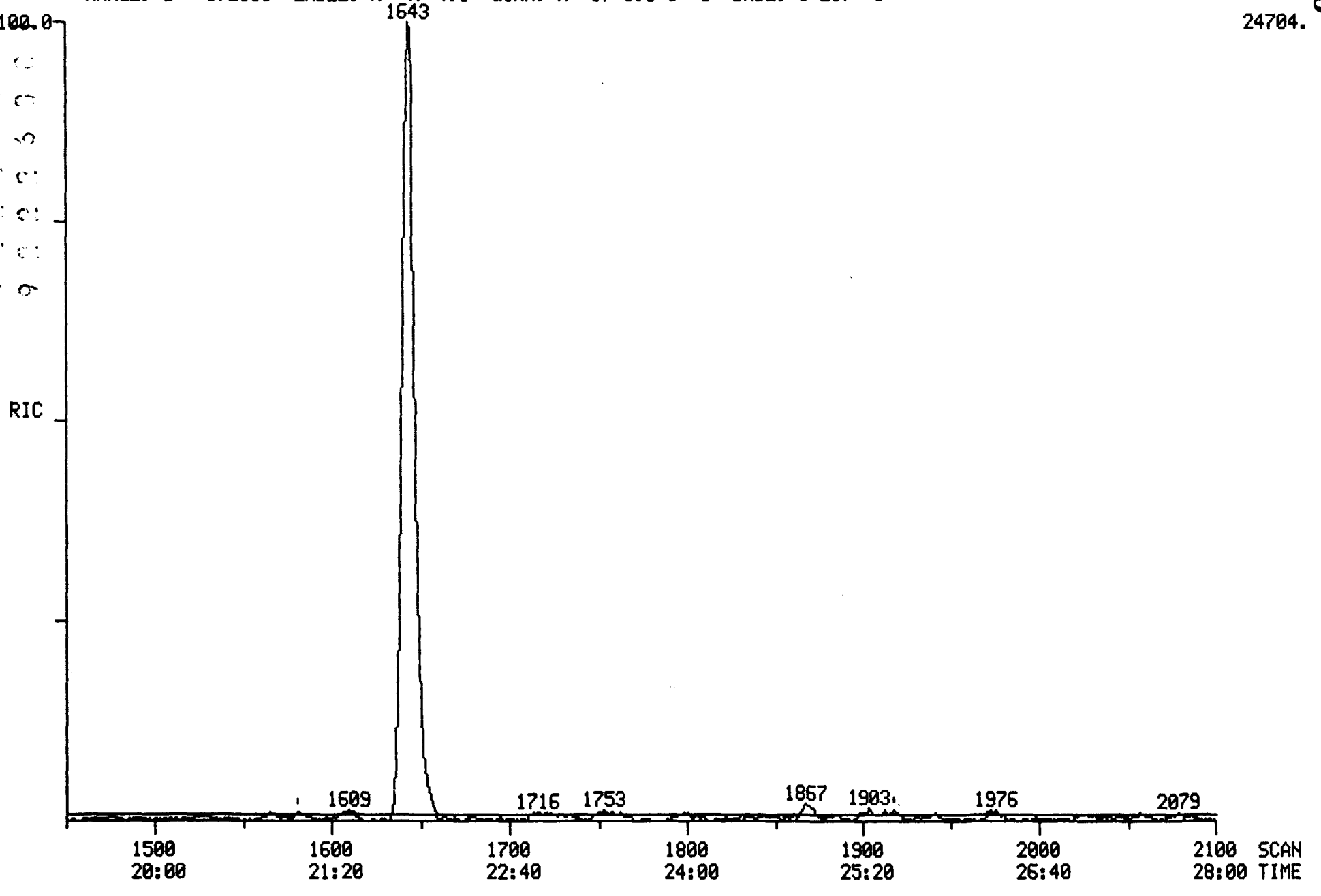
SCANS 80 TO 1500



000483

RIC
04/02/91 12:39:00
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC05 #1 SCANS 1450 TO 2100
CALI: B0402LC05 #3



000484

4/2/91 12:40:13 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 12:39:00 + 0:01
Sample: 90908, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0402LC05
Free sectors: 5636
Instrument: 5100
Analyst: LC

Acquiring
Scan: 1 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 31 DegC
Elapsed time : 0: 7 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10 Samp int (ms): 0.200 Peak width: 1000.
Frag S/P: 10 Actual: 10 Samp int (ms): 0.200 Inten/ion: 2

Min peak width: 3 Min frag width %: 80 Min area: 50
ADC threshold: 2 Baseline: 0

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

000485

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

4/2/91 13:09:52
Acquisition completed

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	545	3.6	436.0	0.8	6960.	13.	16.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 13:10:36
DATA FILE: B0402LC05
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	2	44	CLSRT1/CLSTC1
1	1	1	0	13	3	1	27	CLSRT2/CLSTC2
1	1	1	0	16	3	3	82	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 9 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT ><							------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	317	308	308	.	1	970	.	128	307	-1	1
2	CS	2	-97	100	.	.	.	.	.	50	.	.	.
3	CS	3	-107	109	.	.	.	.	.	94	.	.	.
4	CS	4	-98	101	.	.	.	.	.	62	.	.	.
5	CS	5	-108	110	.	.	.	.	.	64	.	.	.
6	CS	6	178	176	176	.	1	995	.	84	176	.	1
7	CS	7	152	152	152	.	2	954	.	43	153	1	1
8	CS	8	-156	156	.	.	.	.	.	76	154	.	1
9	CS	9	-144	144	.	.	.	.	.	96	.	.	.
10	CS	10	-231	227	.	.	.	.	.	63	.	.	.
11	CS	12	-333	323	.	.	.	.	.	83	321	.	1
12	CS	13	-347	336	.	.	.	.	.	97	331	.	1
13	CS	14	-115	117	.	.	.	.	.	101	117	.	2
14	CS	15	-195	192	.	.	.	.	.	96	.	.	.
15	CS	16	-289	281	.	.	.	.	.	96	.	.	.
16	CS	17	485	465	465	.	1	997	.	114	465	.	1
17	CS	18	-414	398	.	.	.	.	.	62	.	.	.
18	CS	19	303	293	293	.	1	915	.	72	291	-2	1
19	CS	20	-368	355	.	.	.	.	.	117	.	.	.
20	CS	21	-242	235	.	.	.	.	.	43	235	.	2
21	CS	22	-633	624	.	.	.	.	.	83	.	.	.
22	CS	23	-573	548	.	.	.	.	.	63	.	.	.
23	CS	24	-769	734	.	.	.	.	.	75	.	.	.
24	CS	25	-523	501	.	.	.	.	.	130	.	.	.
25	CS	27	-401	386	.	.	.	.	.	78	.	.	.
26	CS	28	-756	721	.	.	.	.	.	106	.	.	.
27	CS	29	400	385	385	.	1	974	.	65	385	.	1
28	CS	43	-1533	1456	.	.	.	.	.	173	.	.	.
29	CS	30	1312	1299	1299	.	1	996	.	117	1300	1	1
30	CS	26	-1139	1123	.	.	.	.	.	129	.	.	.
31	CS	31	-1020	1002	.	.	.	.	.	97	.	.	.
32	CS	32	-966	947	.	.	.	.	.	75	.	.	.
33	CS	33	-1145	1129	.	.	.	.	.	43	1131	.	1
34	CS	34	857	837	.	.	.	.	.	43	.	.	.
35	CS	35	-1020	1002	.	.	.	.	.	164	.	.	.
36	CS	36	1726	1718	.	.	.	.	.	83	1723	.	3
37	CS	37	-856	836	.	.	.	.	.	91	834	.	2
38	CS	38	1322	1308	.	.	.	.	.	112	1307	.	1
39	CS	39	-1373	1360	.	.	.	.	.	106	.	.	.
40	CS	40	-1526	1516	.	.	.	.	.	104	.	.	.
41	CS	41	-1410	1398	.	.	.	.	.	106	1402	.	1
42	CS	42	-1515	1504	.	.	.	.	.	106	1508	.	1
43	CS	44	1652	1643	1643	.	1	990	.	95	1643	.	1
44	CS	45	837	816	816	.	3	994	.	98	816	.	1

Quantitation Report File: B0402LC05

Data: B0402LC05.TI
04/02/91 12:39:00
Sample: 90908, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	307	4:06	1	1.000	A BB	11195.	50.000 UG/G	10.45
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	176	2:21	1	0.573	A BB	390.	~~1.142~~ UG/G	0.24
7	43	153	2:02	1	0.498	A BB	1693.	13.223 UG/G	2.76
8	76	154	2:03	1	0.502	A BB	141.	~~0.131~~ UG/G	0.03
9	NOT FOUND								
10	NOT FOUND								
11	83	321	4:17	1	1.046	A BB	351.	~~0.516~~ UG/G	0.11
12	97	331	4:25	1	1.078	A BB	53.	~~0.117~~ UG/G	0.02
13	101	117	1:34	1	0.381	A*BB	68.	~~0.500~~ UG/G	0.10
14	NOT FOUND								
15	NOT FOUND								
16	114	465	6:12	16	1.000	A BB	49354.	50.000 UG/G	10.45
17	NOT FOUND								
18	72	291	3:53	16	0.626	A BB	314.	6.704 UG/G	1.40
19	NOT FOUND								
20	43	235	3:08	16	0.505	A*BB	233.	~~1.020~~ UG/G	0.21
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	65	385	5:08	16	0.828	A BB	14923.	97.425 %	20.36
28	NOT FOUND								
29	117	1300	17:20	29	1.000	A BB	55110.	50.000 UG/G	10.45
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	1131	15:05	29	0.870	A BB	112.	~~0.253~~ UG/G	0.05
34	NOT FOUND								
35	NOT FOUND								
36	83	1723	22:58	29	1.325	A*BV	262.	~~0.362~~ UG/G	0.08
37	91	834	11:07	29	0.642	A*VB	205.	~~0.144~~ UG/G	0.03
38	112	1307	17:26	29	1.005	A BB	495.	~~0.477~~ UG/G	0.10
39	NOT FOUND								
40	NOT FOUND								
41	106	1402	18:42	29	1.078	A BB	37.	~~0.056~~ UG/G	0.01
42	106	1508	20:06	29	1.160	A BB	57.	~~0.084~~ UG/G	0.02
43	95	1643	21:54	29	1.264	A BB	54471.	99.945 %	20.89
44	98	816	10:53	29	0.628	A BB	67199.	106.514 %	22.26

Quantitation Report File: B0402LC05A

Data: B0402LC05.TI
04/02/91 12:39:00
Sample: 90908, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	PROPANE, 2,2-DIFLUORO-
2	ETHANE, 1,1-DICHLORO-
3	BENZENE, FLUORO-

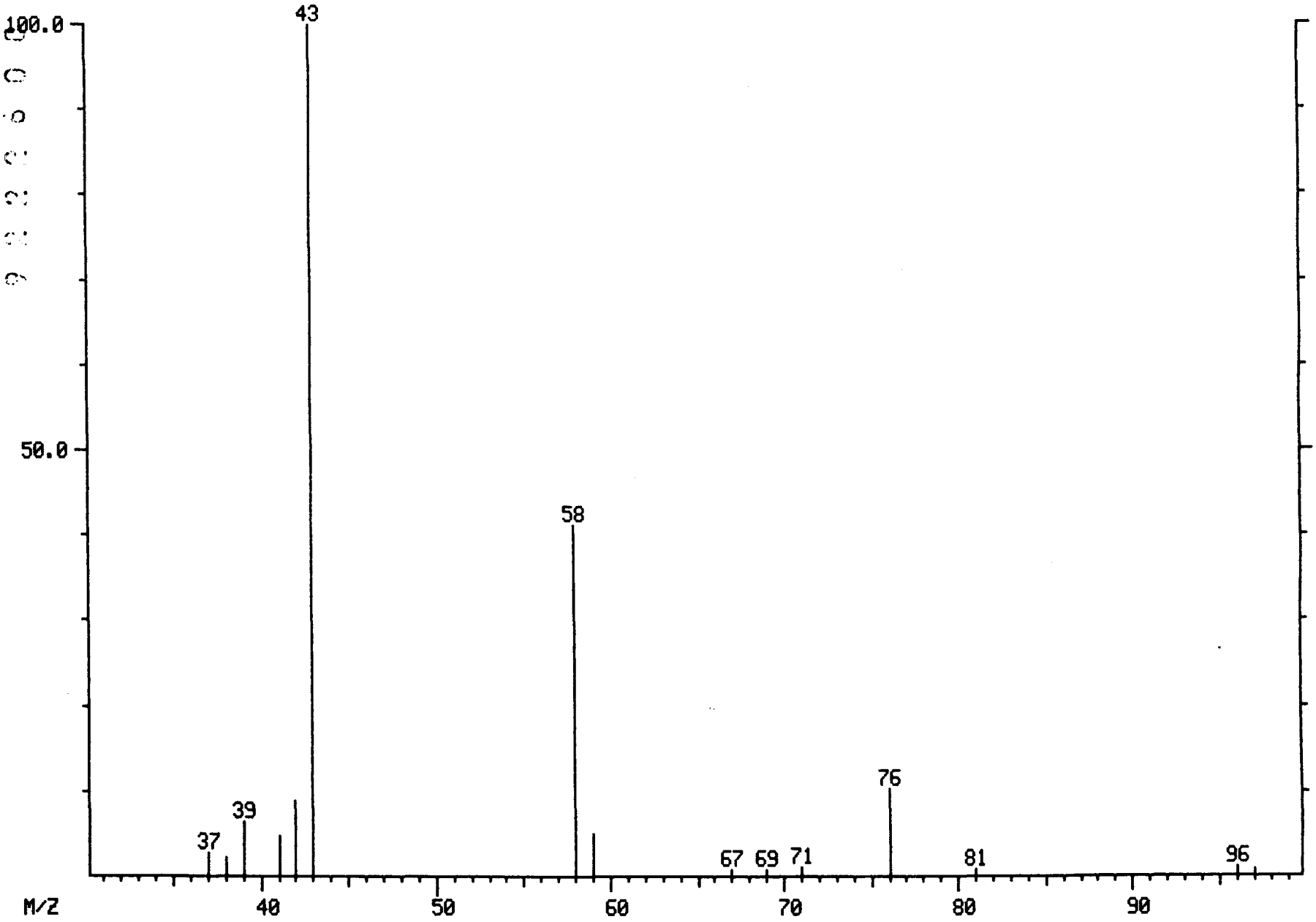
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	112	1:30	3	0.257	A BV	4225.	~~1.637~~	2.36
2	RIC	123	1:38	3	0.282	A BB	3779.	~~1.464~~	2.11
3	RIC	436	5:49	3	1.000	A BB	170876.	66.200	95.53

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/02/91 12:39:00 + 2:02
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 #153
CALI: B0402LC05 #3

BASE M/Z: 43
RIC: 627.



335.

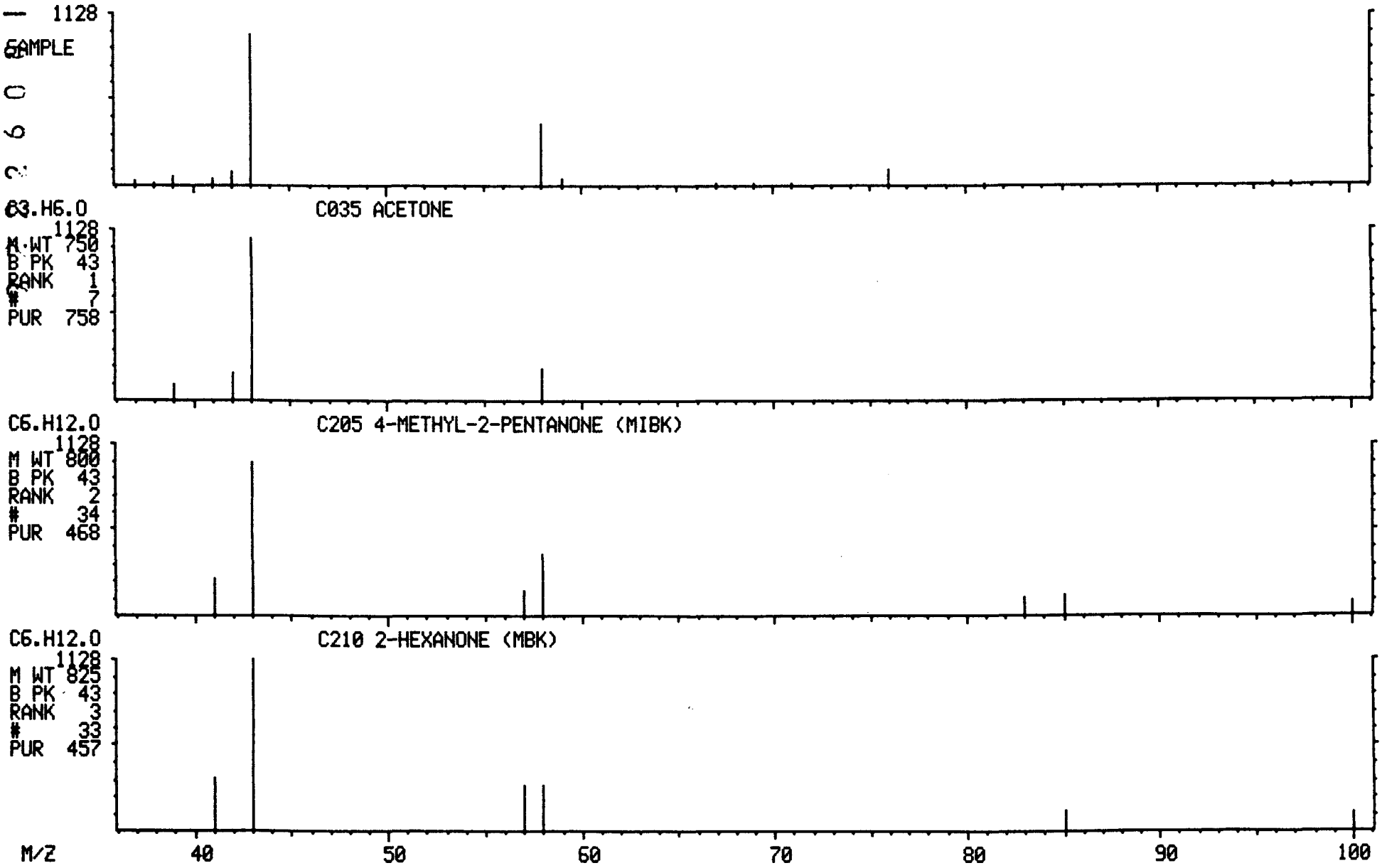
004492

LIBRARY SEARCH
04/02/91 12:39:00 + 2:02
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 # 153
CALI: B0402LC05 # 3

BASE M/Z: 43
RIC: 626.

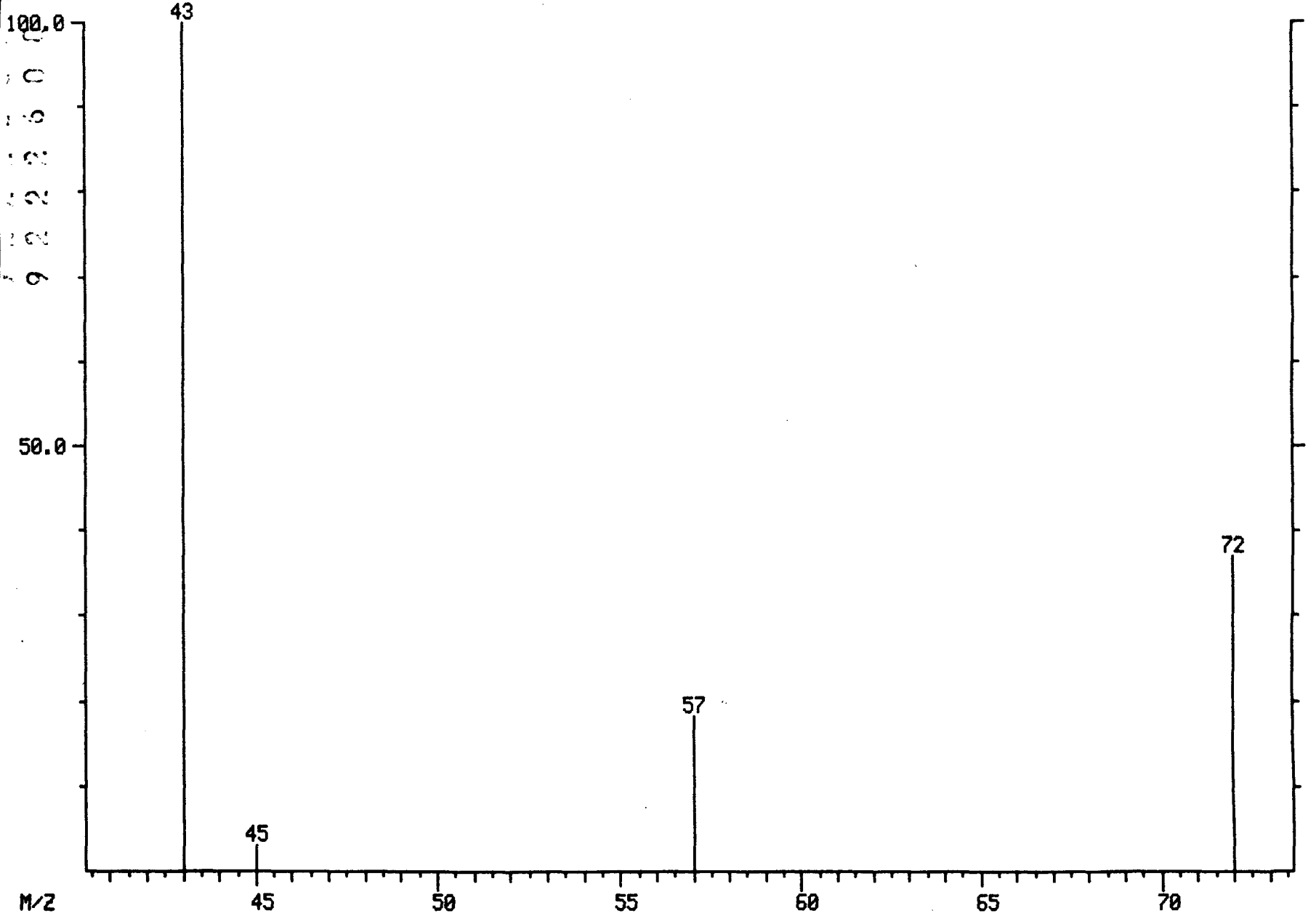
000493



MASS SPECTRUM
04/02/91 12:39:00 + 3:53
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 #291
CALI: B0402LC05 #3

BASE M/Z: 43
RIC: 201.

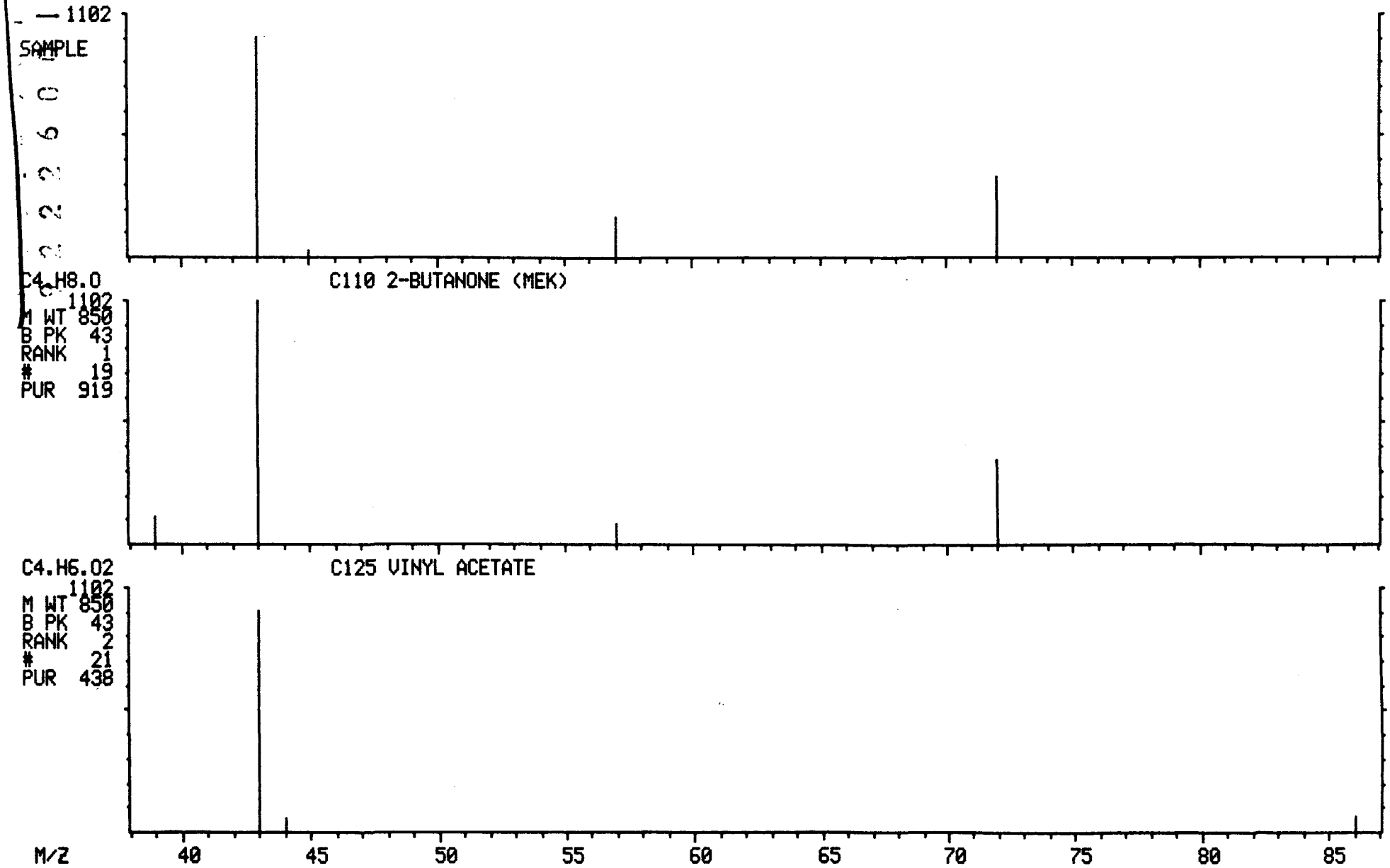


003494

LIBRARY SEARCH
04/02/91 12:39:00 + 3:53
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 # 291
CALI: B0402LC05 # 3

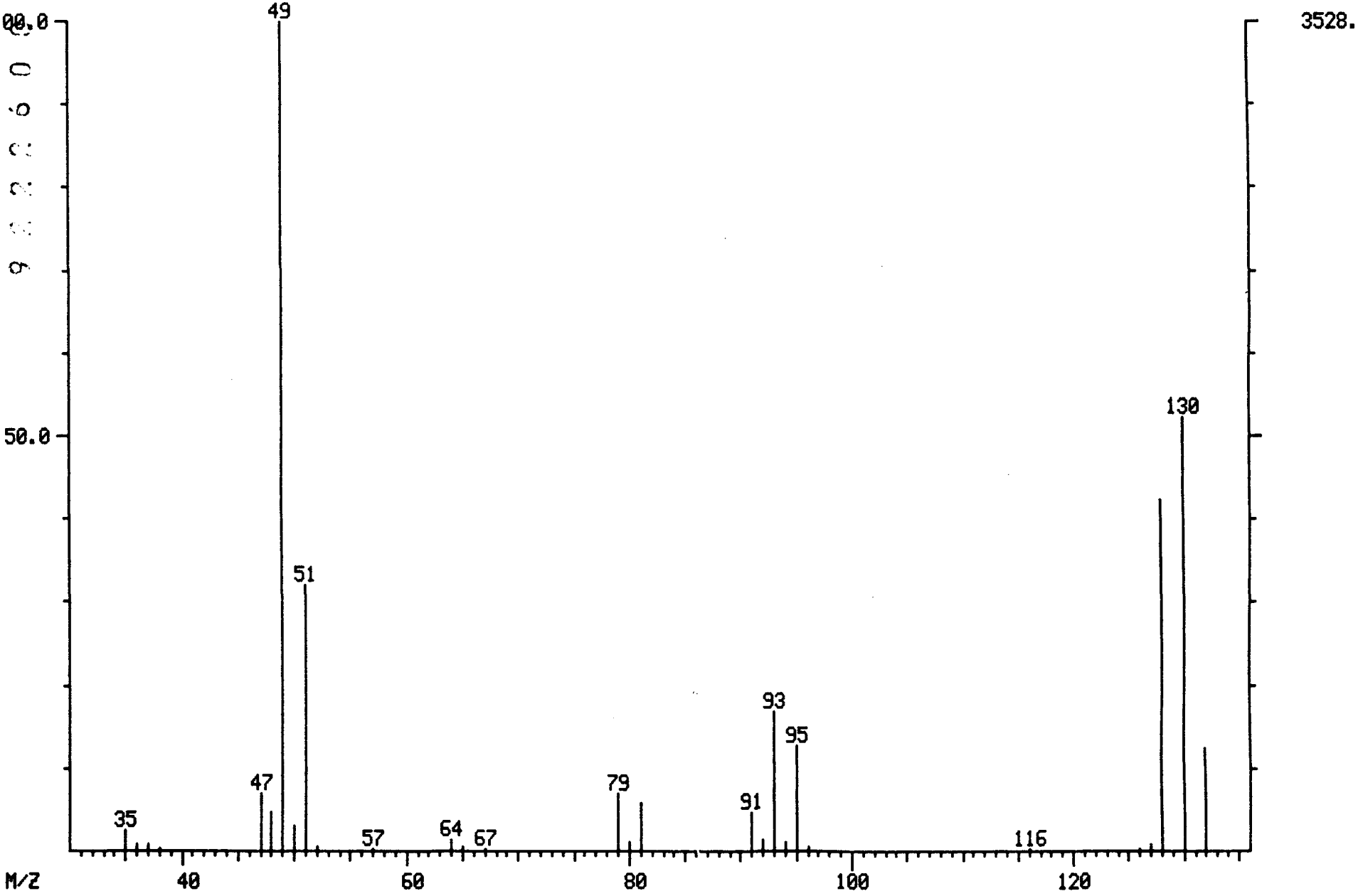
BASE M/Z: 43
RIC: 200.



MASS SPECTRUM
04/02/91 12:39:00 + 4:06
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 #307
CALI: B0402LC05 #3

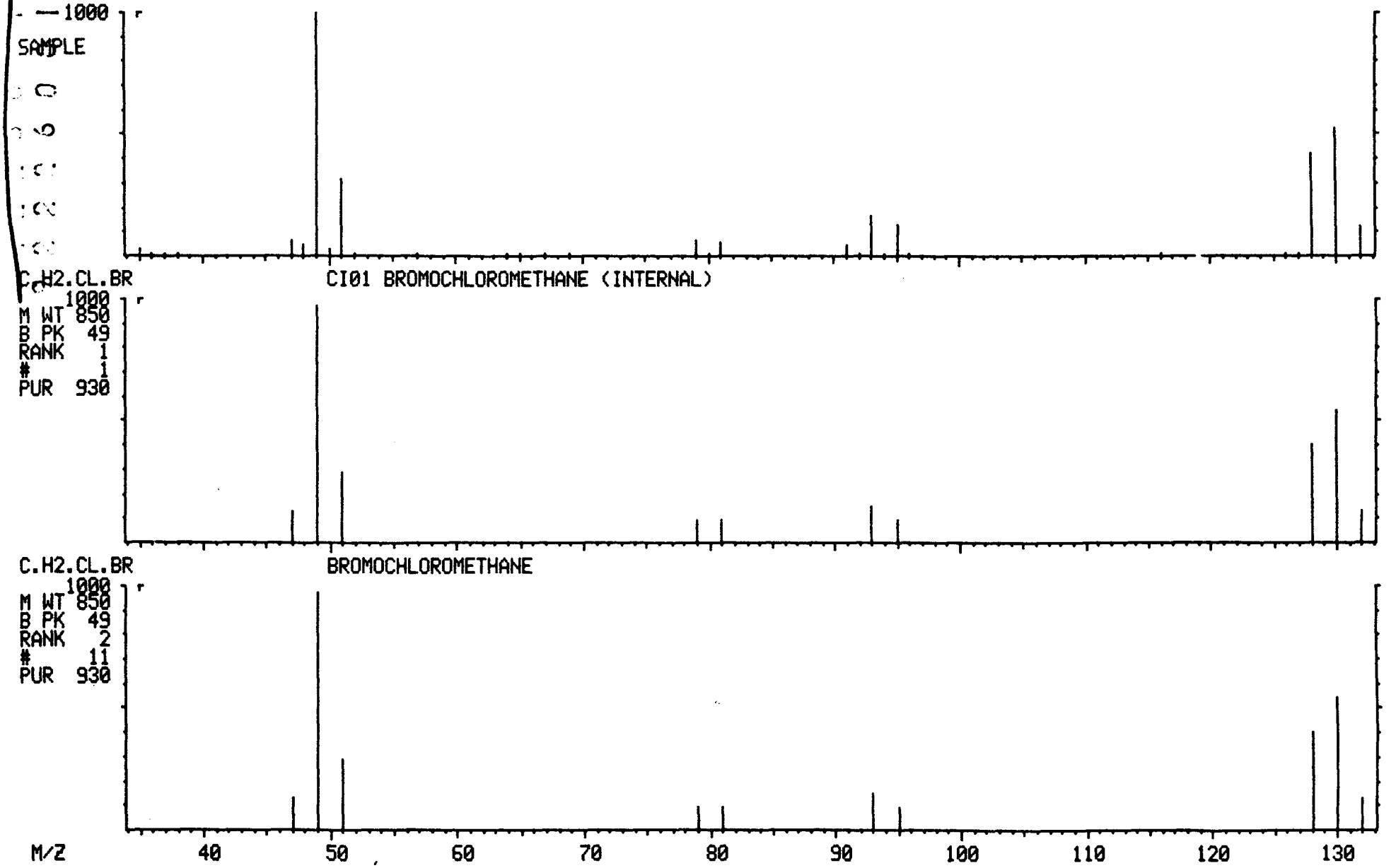
BASE M/Z: 49
RIC: 11104.



LIBRARY SEARCH
04/02/91 12:39:00 + 4:06
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 # 307
CALI: B0402LC05 # 3

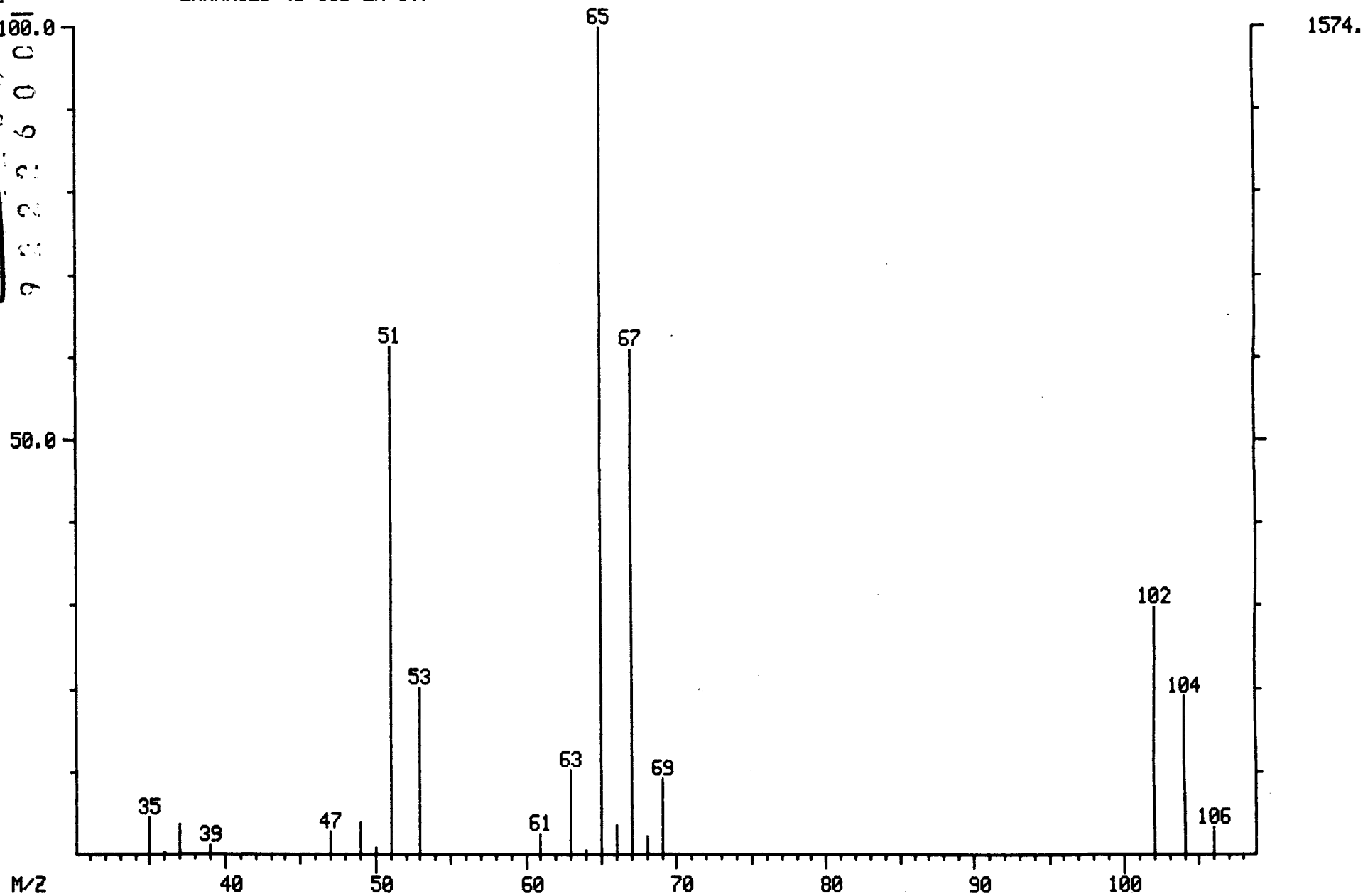
BASE M/Z: 49
RIC: 11103.



MASS SPECTRUM
04/02/91 12:39:00 + 5:08
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 37 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 #385
CALI: B0402LC05 #3

BASE M/Z: 65
RIC: 5360.



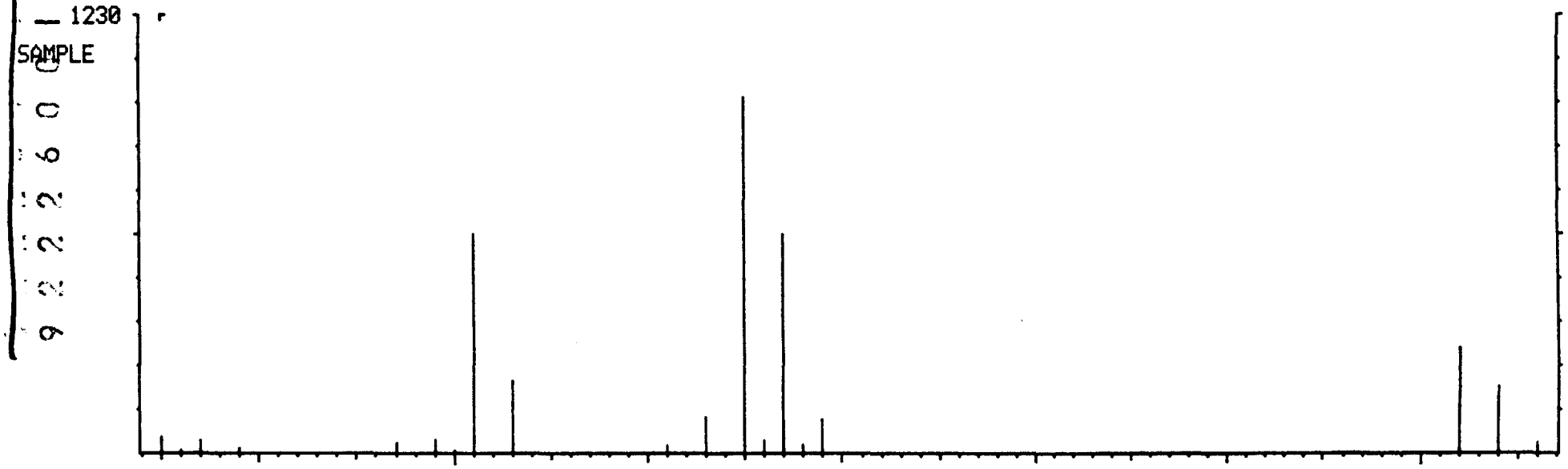
003498

LIBRARY SEARCH
04/02/91 12:39:00 + 5:08
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

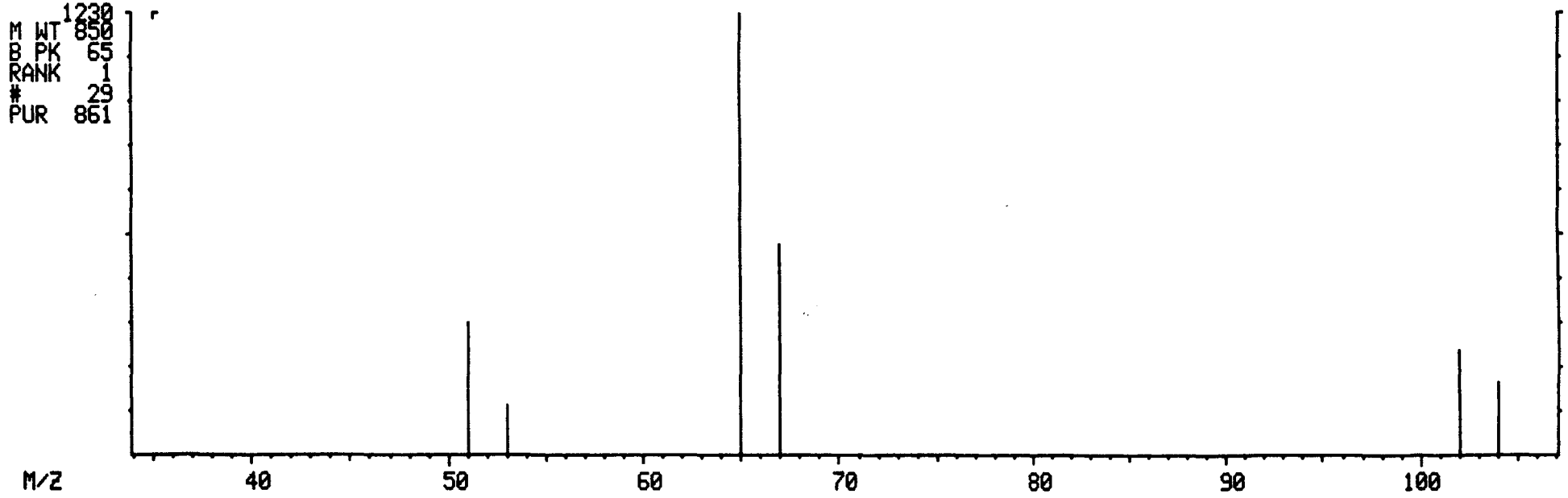
DATA: B0402LC05 # 385
CALI: B0402LC05 # 3

BASE M/Z: 65
RIC: 5351.

003499



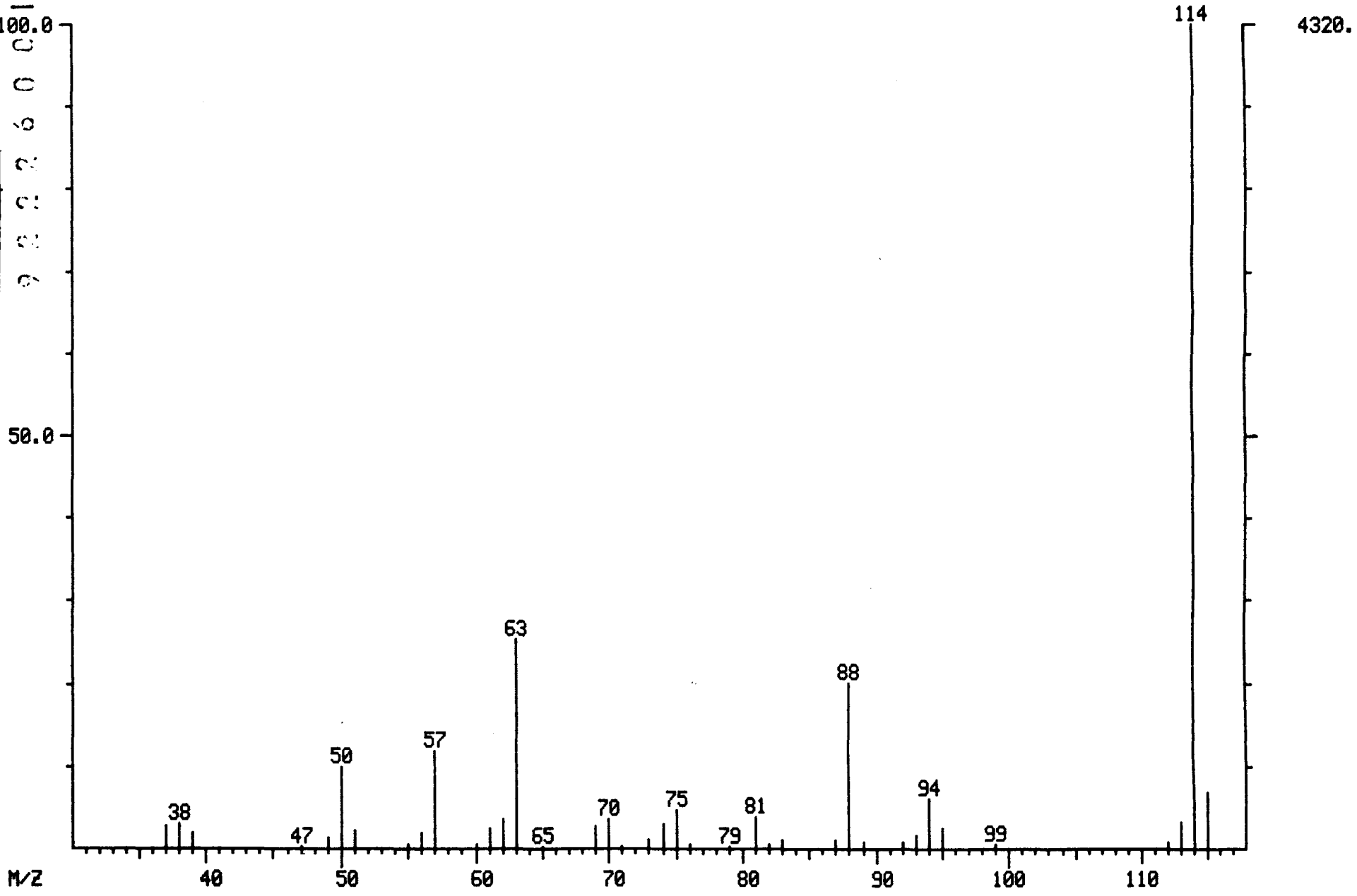
C2.CL2.D4 CS15 D4-1,2-DICHLOROETHANE (SURROGATE)



MASS SPECTRUM
04/02/91 12:39:00 + 6:12
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 37 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 #465
CALI: B0402LC05 #3

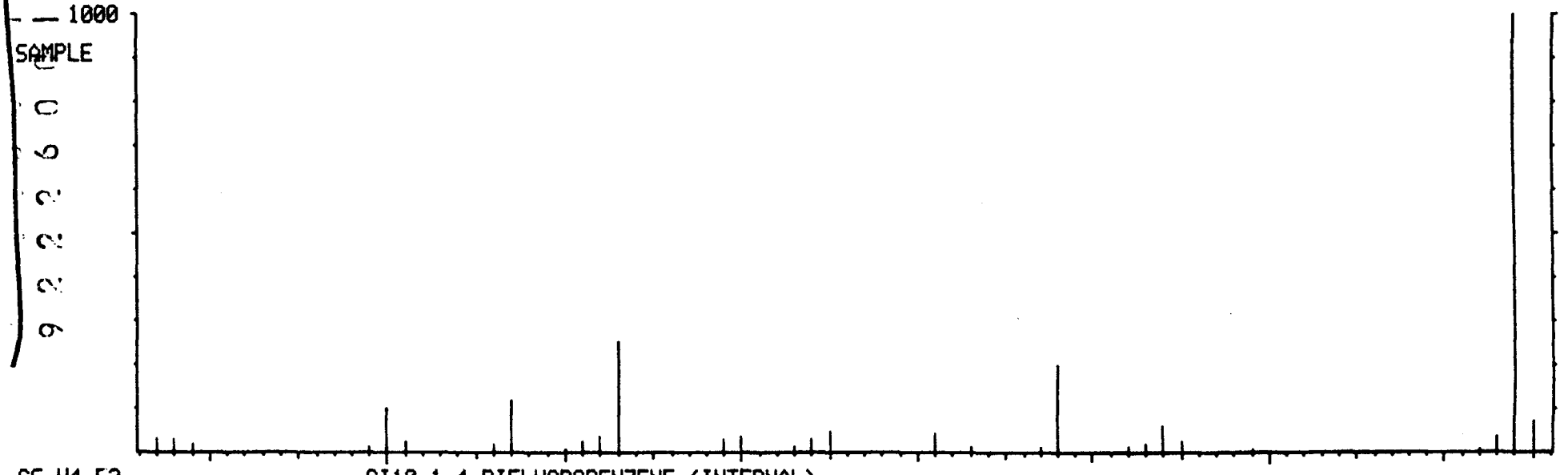
BASE M/Z: 114
RIC: 10160.



LIBRARY SEARCH
04/02/91 12:39:00 + 6:12
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

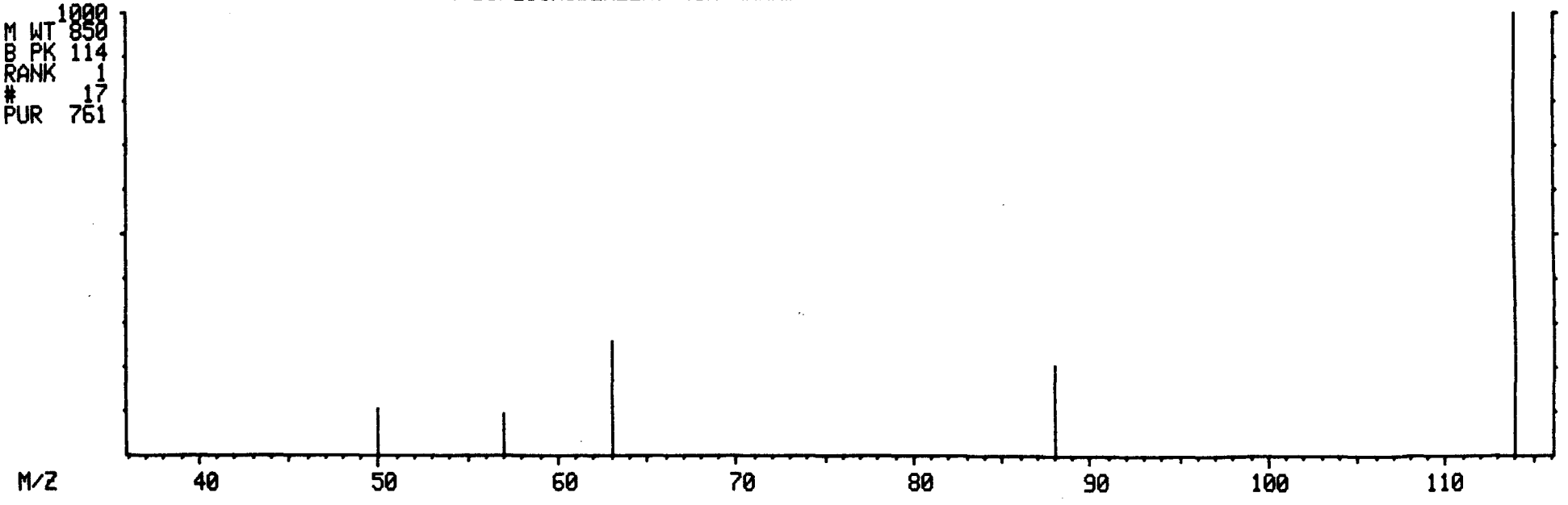
DATA: B0402LC05 # 465
CALI: B0402LC05 # 3

BASE M/Z: 114
RIC: 10015.



C6.H4.F2

CI10 1,4-DIFLUOROBENZENE (INTERNAL)

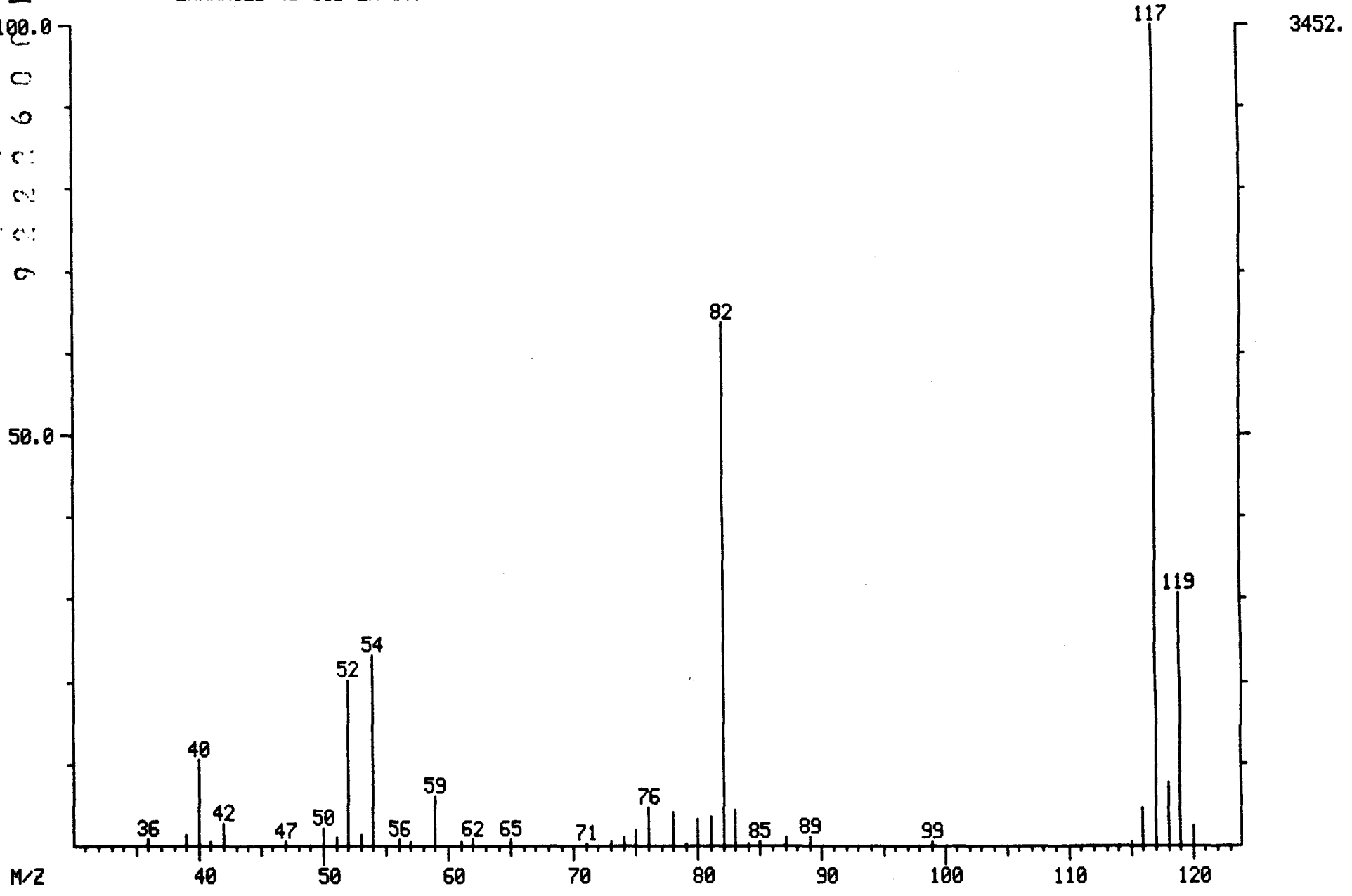


MASS SPECTRUM
04/02/91 12:39:00 + 17:20
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 #1300
CALI: B0402LC05 #3

BASE M/Z: 117
RIC: 10784.

003502

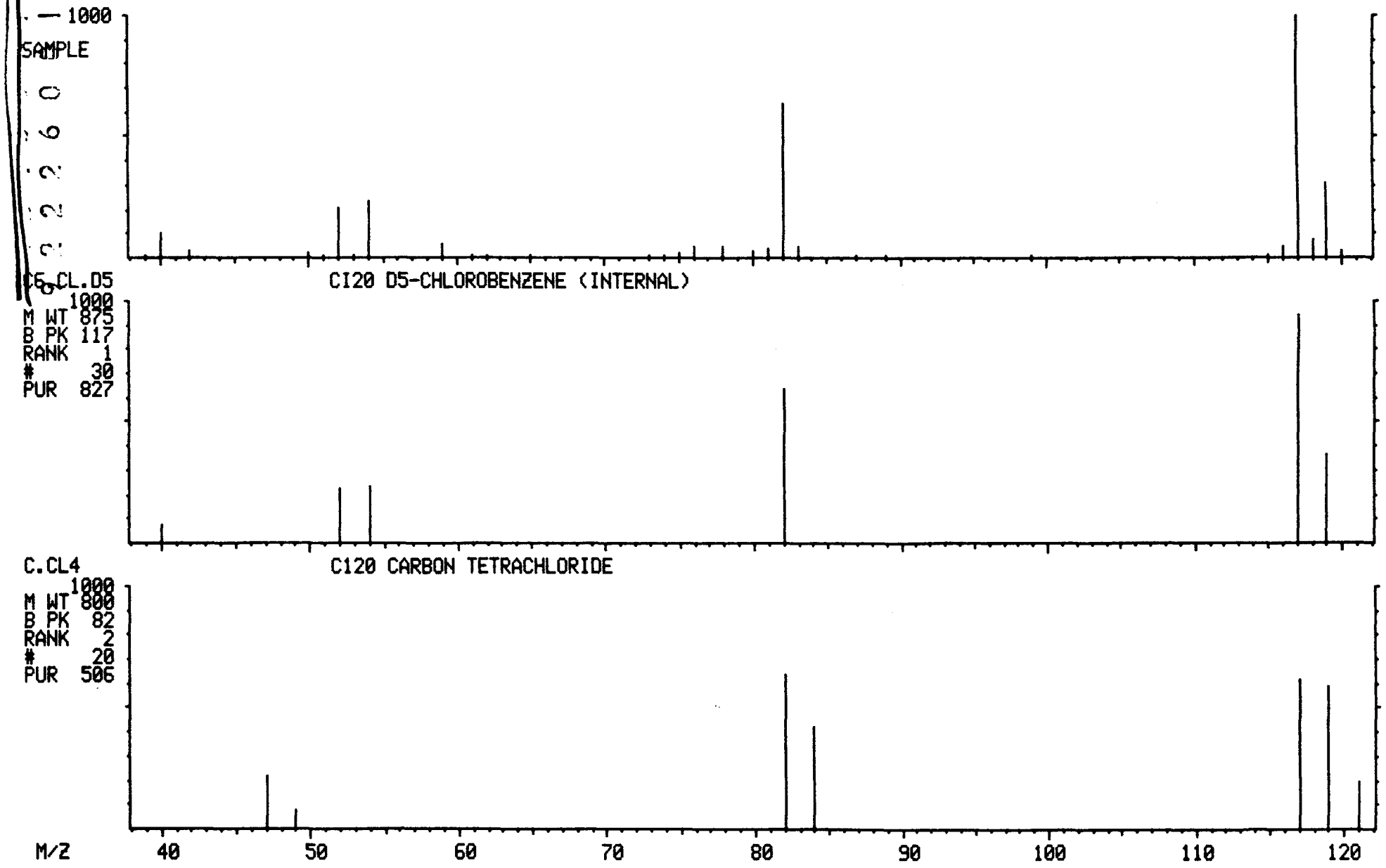


LIBRARY SEARCH
04/02/91 12:39:00 + 17:20
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 #1300
CALI: B0402LC05 # 3

BASE M/Z: 117
RIC: 10623.

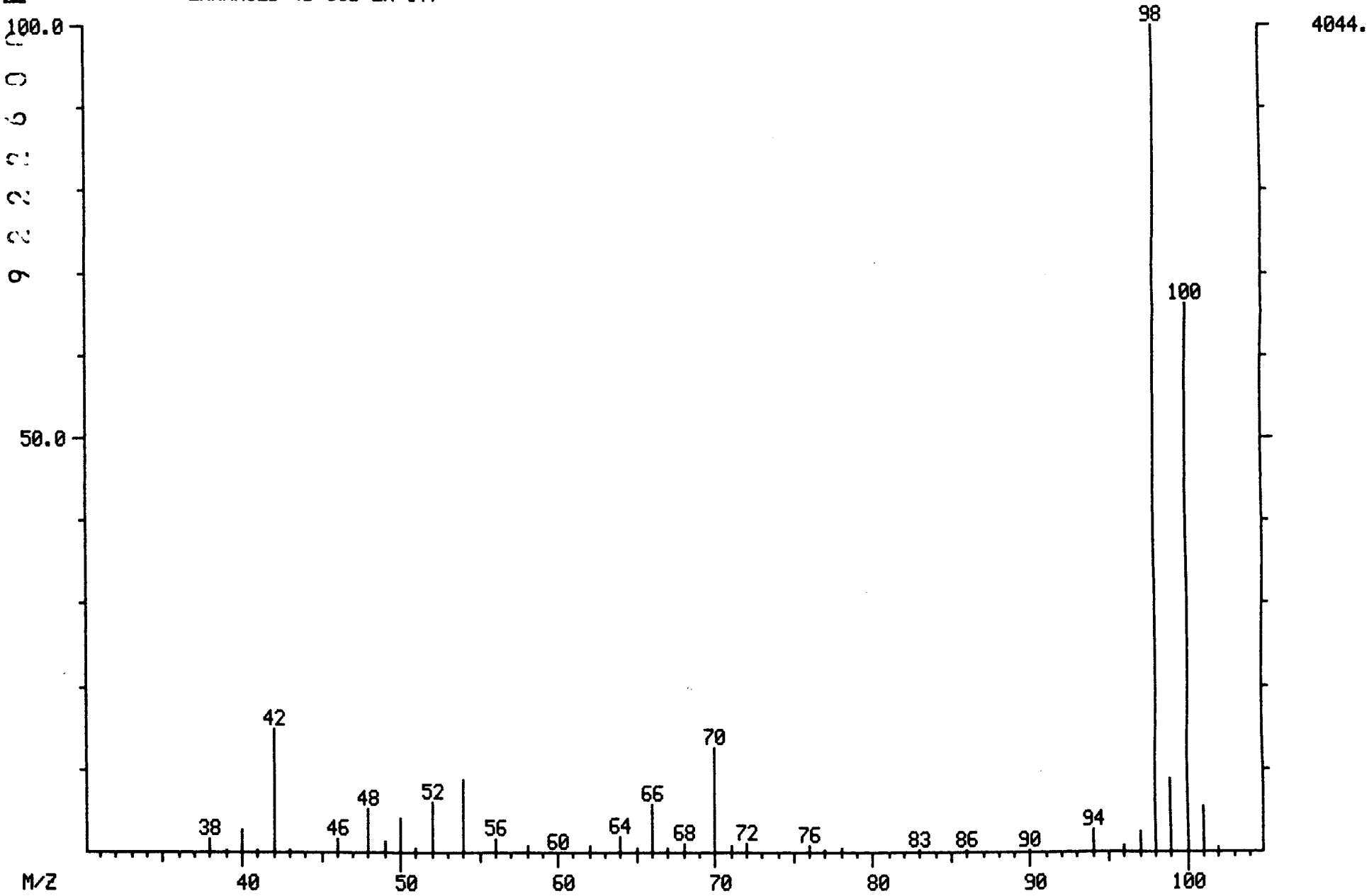
000503



MASS SPECTRUM
04/02/91 12:39:00 + 10:53
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 #816
CALI: B0402LC05 #3

BASE M/Z: 98
RIC: 10752.

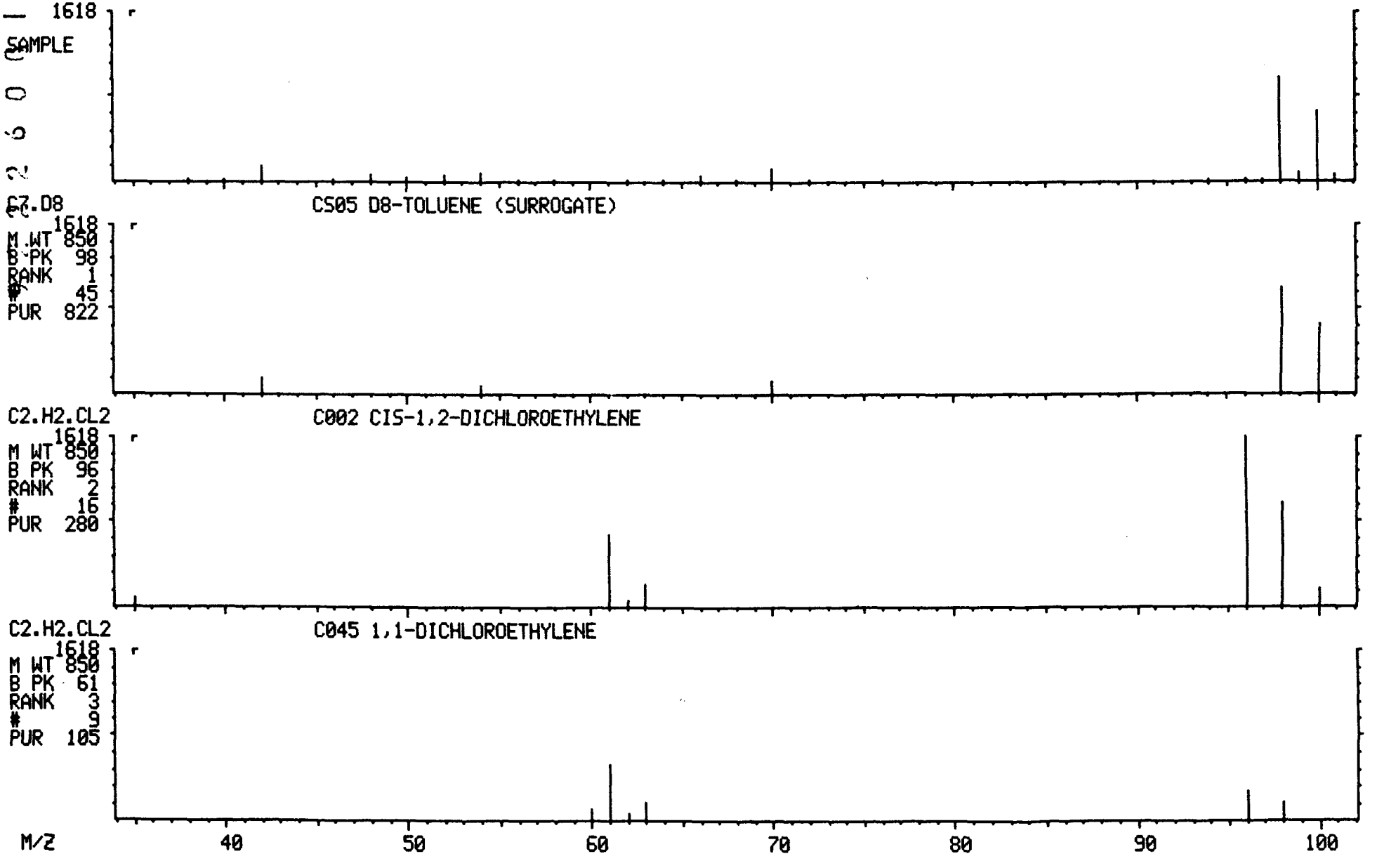


005504

LIBRARY SEARCH
04/02/91 12:39:00 + 10:53
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 # 816
CALI: B0402LC05 # 3

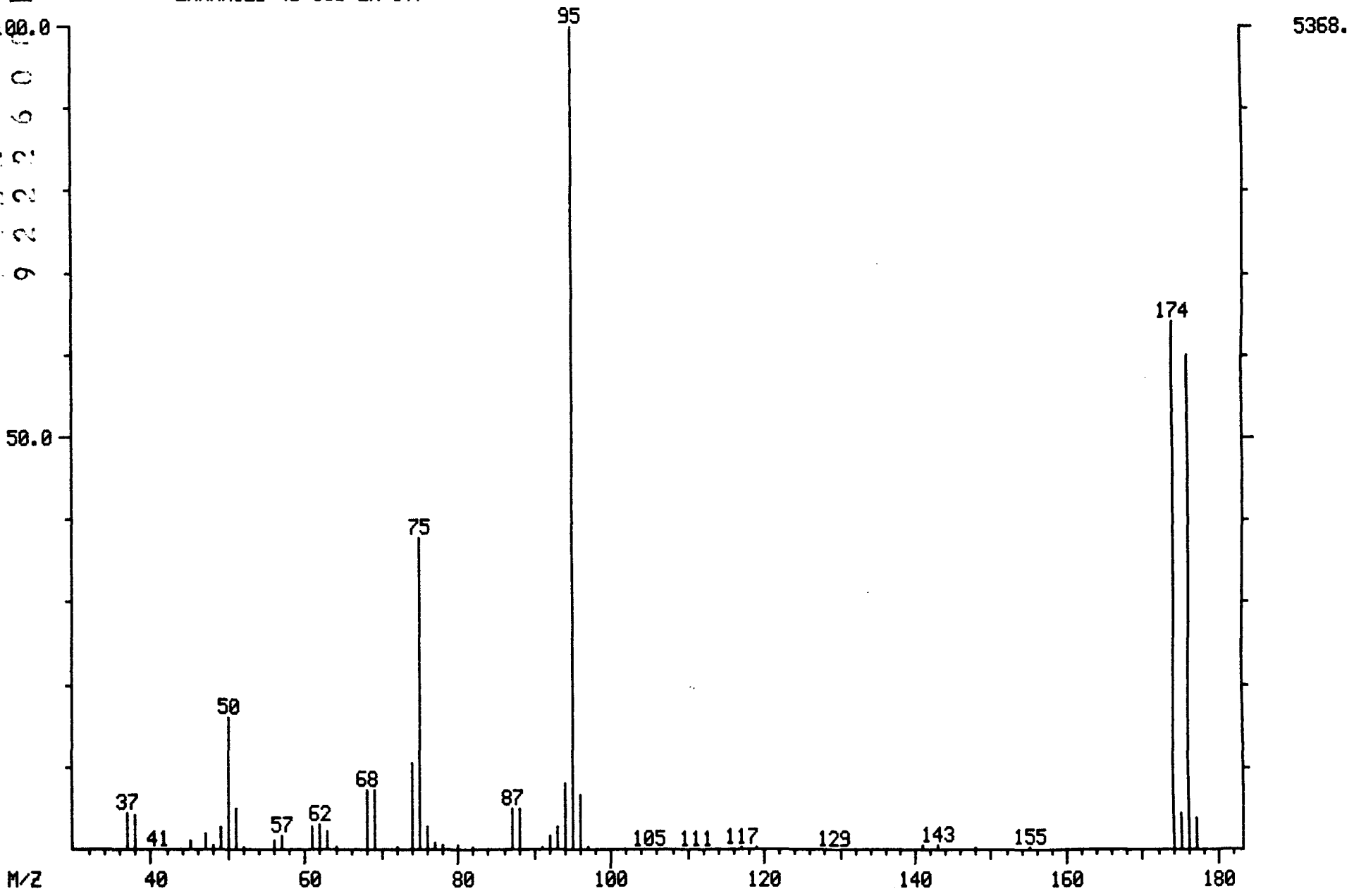
BASE M/Z: 98
RIC: 10479.



MASS SPECTRUM
04/02/91 12:39:00 + 21:54
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 #1643
CALI: B0402LC05 #3

BASE M/Z: 95
RIC: 20448.

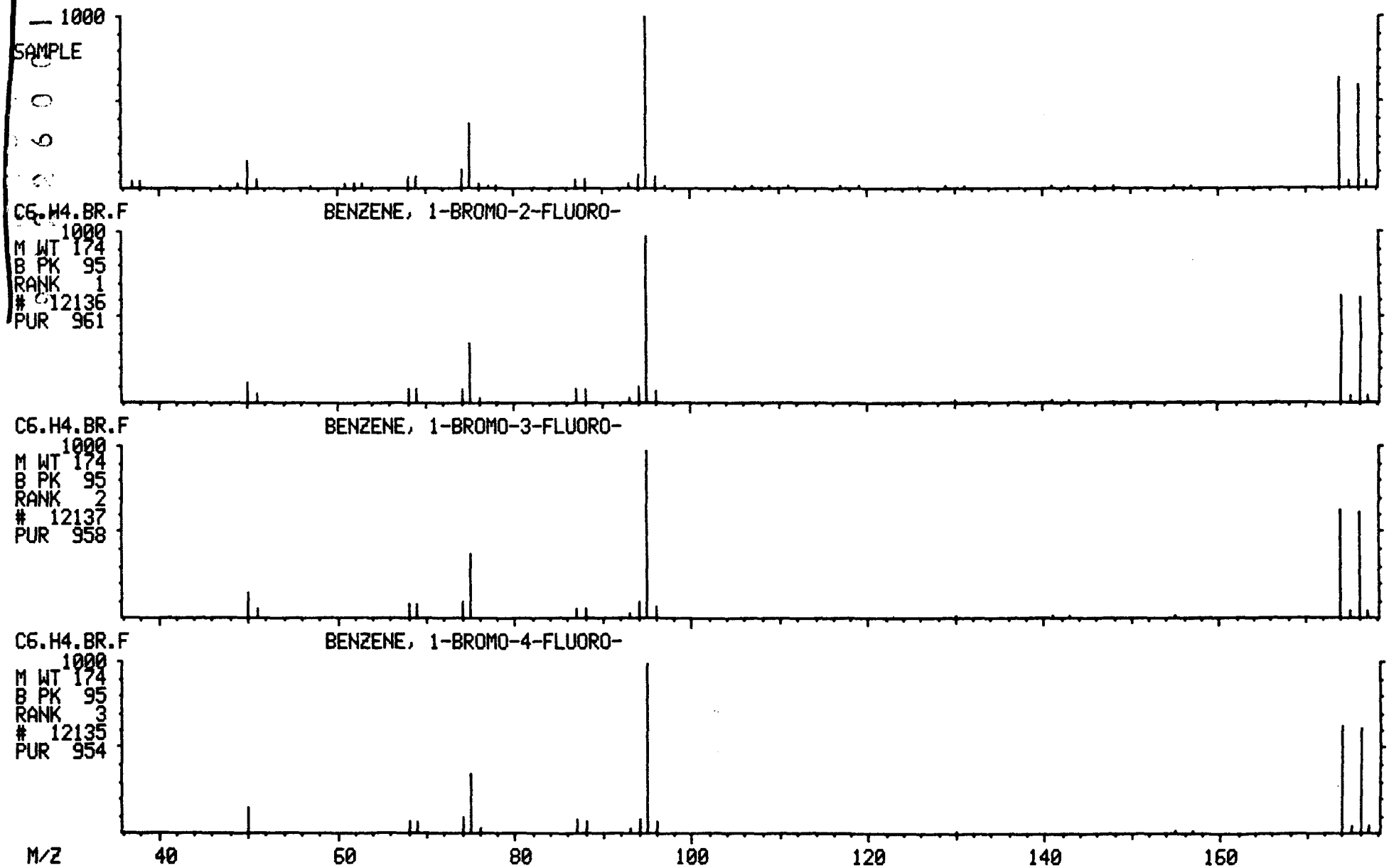


003506

LIBRARY SEARCH
04/02/91 12:39:00 + 21:54
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 #1643
CALI: B0402LC05 # 3

BASE M/Z: 95
RIC: 20095.



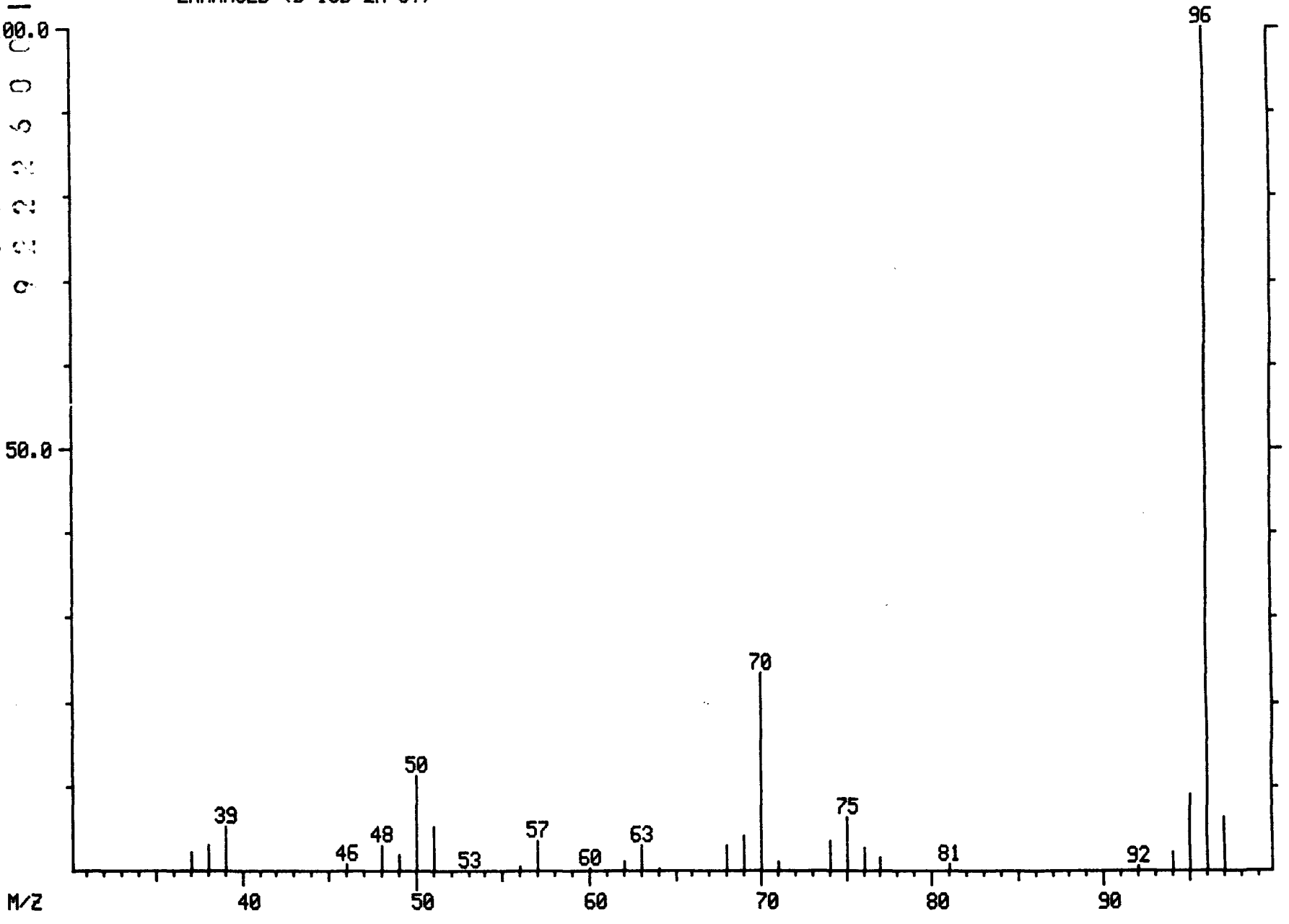
NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/02/91 12:39:00 + 5:49
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 #436
CALI: B0402LC05 #3

BASE M/Z: 96
RIC: 13168.

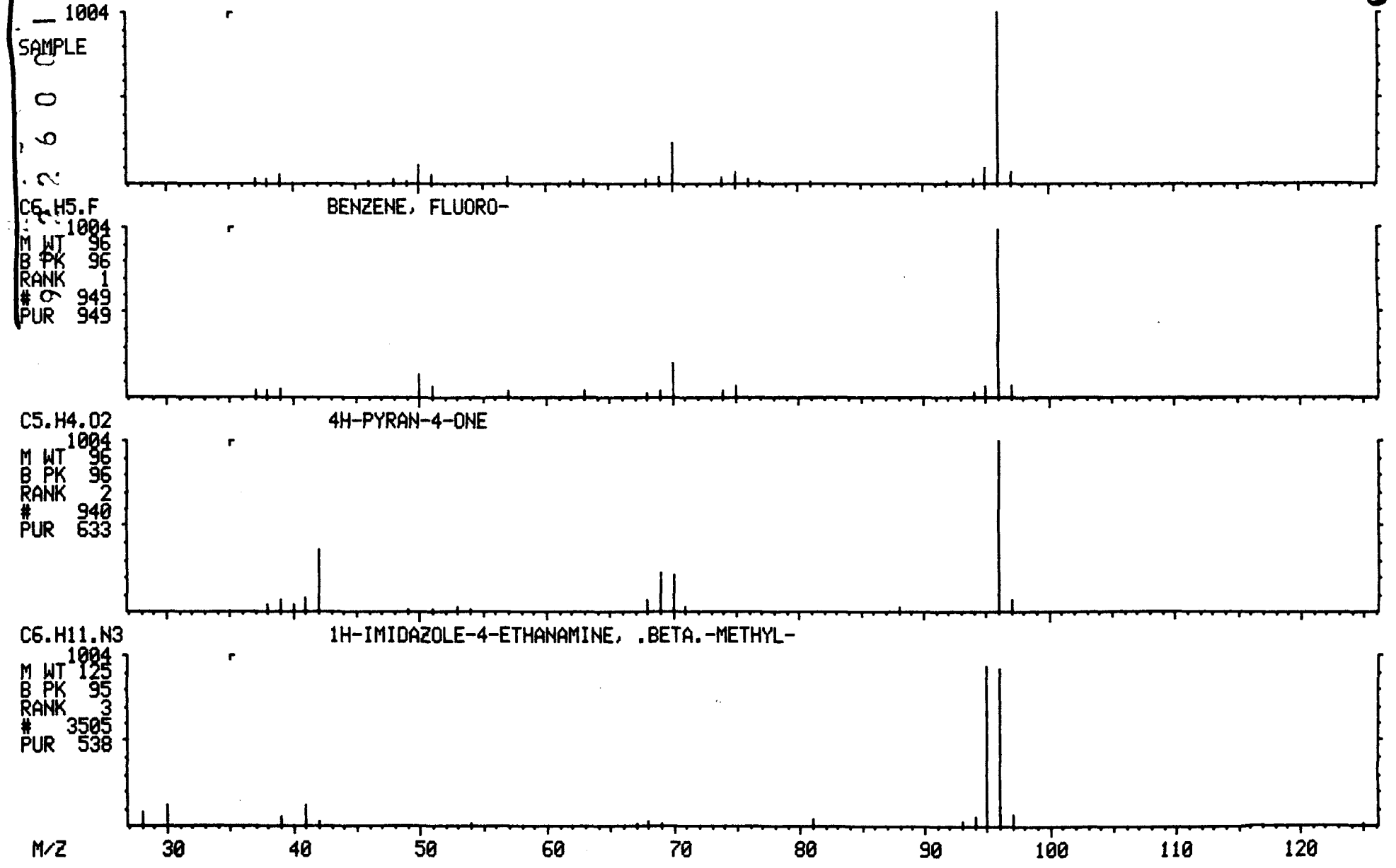
605009



LIBRARY SEARCH
04/02/91 12:39:00 + 5:49
SAMPLE: 90908, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC05 # 436
CALI: B0402LC05 # 3

BASE M/Z: 96
RIC: 13007.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190909

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0402LC06

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 48 Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	19	U
74-83-9	Bromomethane	19	U
75-01-4	Vinyl Chloride	19	U
75-00-3	Chloroethane	19	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	12	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	19	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
108-05-4	Vinyl Acetate	19	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	19	U
591-78-6	2-Hexanone	19	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X111

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190909

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0402LC06

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 48 Date Analyzed: 04/02/91

Column (pack/cap) WIDE Dilution Factor: 1.0

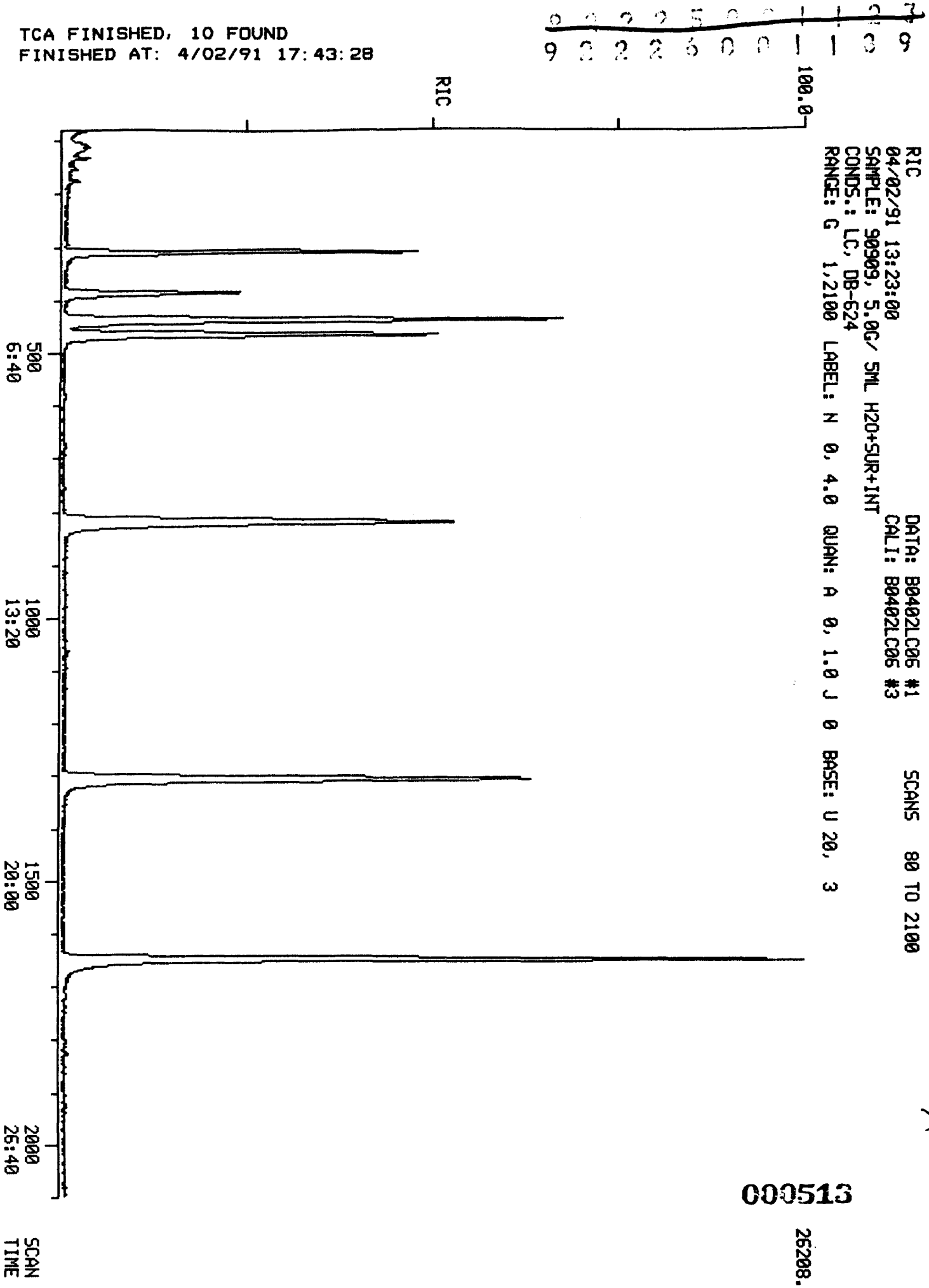
Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000512

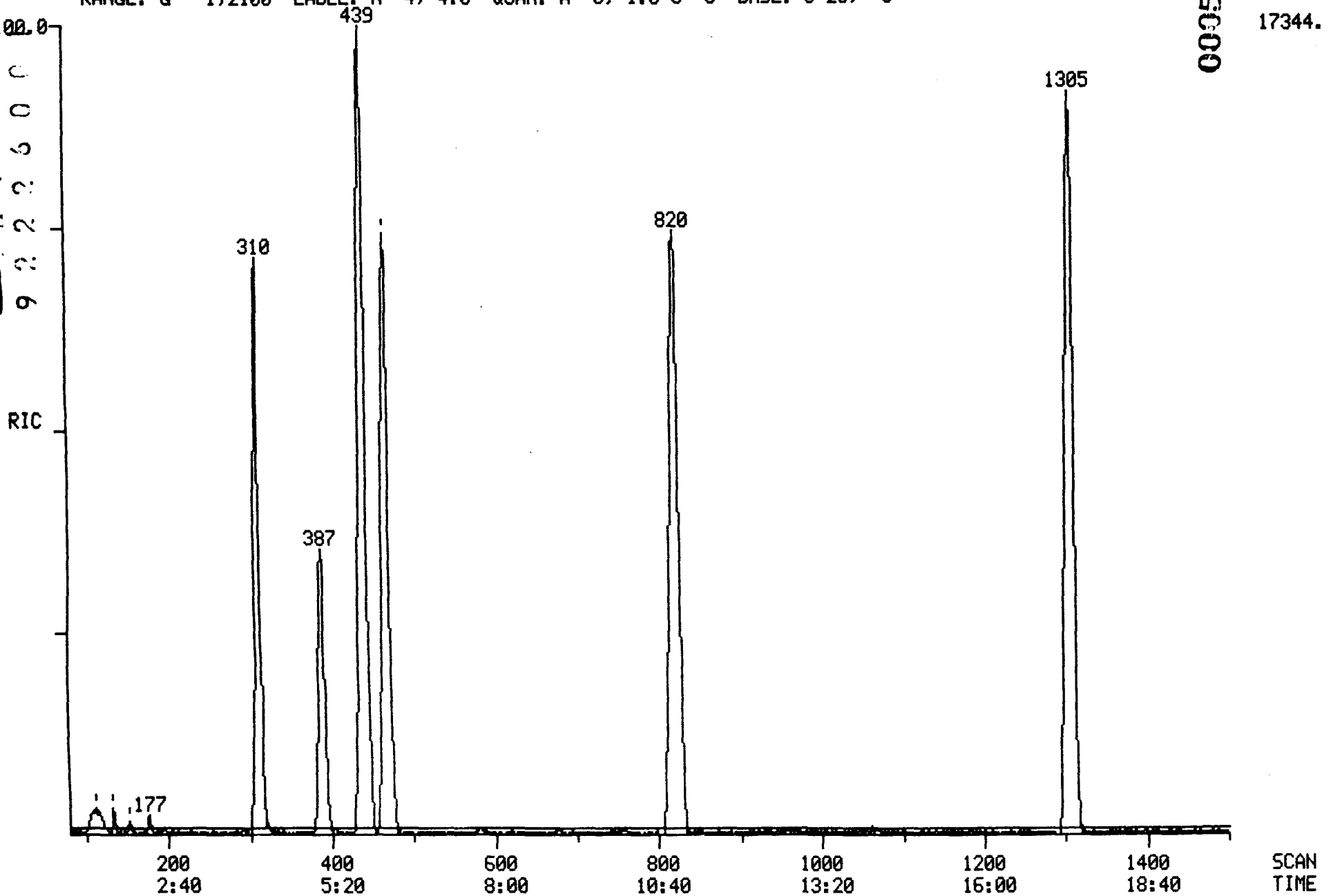
TCA FINISHED, 10 FOUND
FINISHED AT: 4/02/91 17:43:28



000513

RIC
04/02/91 13:23:00
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC06 #1 SCANS 80 TO 1500
CALI: B0402LC06 #3



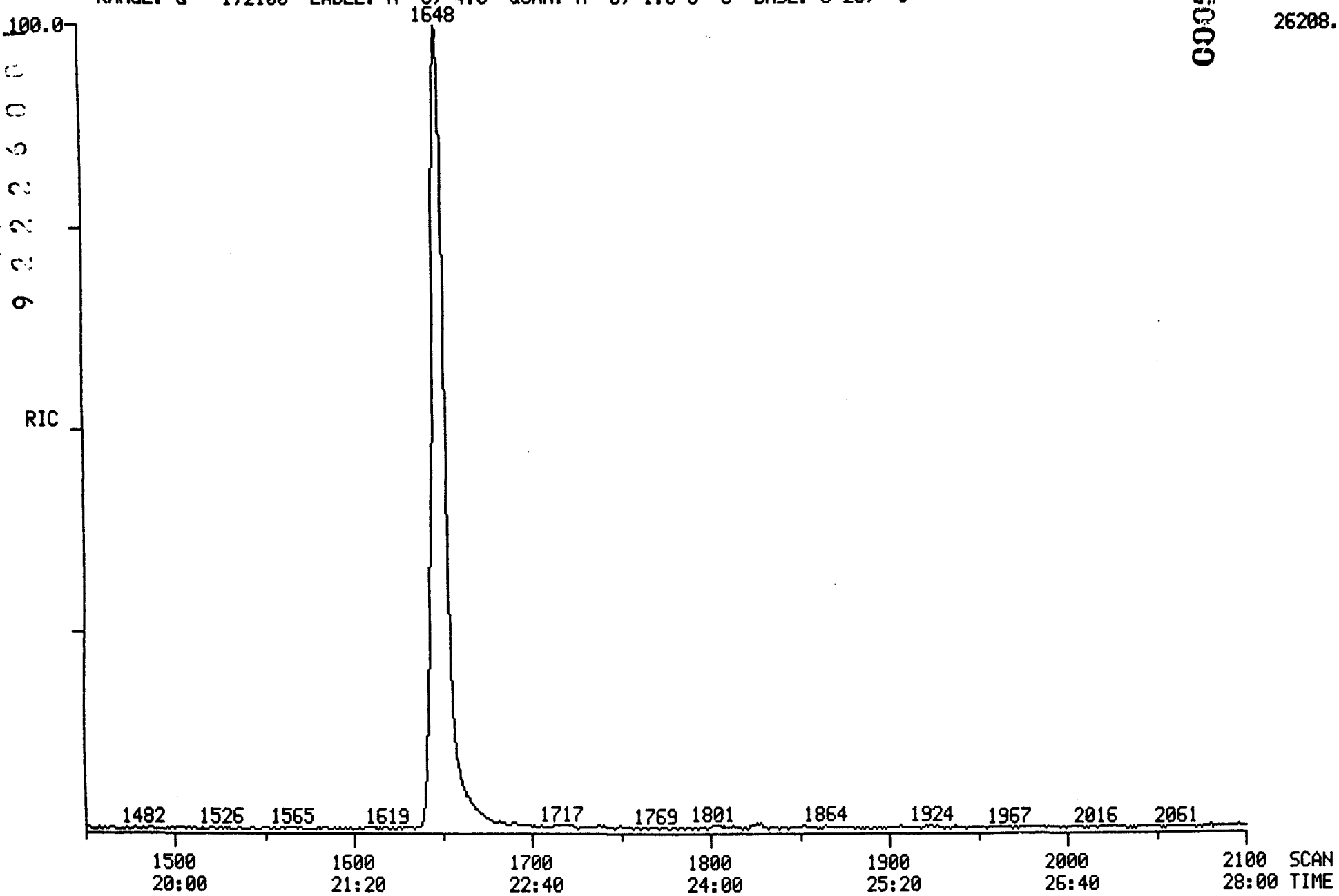
000514

RIC
04/02/91 13:23:00
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC06 #1 SCANS 1450 TO 2100
CALI: B0402LC06 #3

000515

26208.



2100 SCAN
28:00 TIME

25536.

4/2/91 13:23:25 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 13:23:00 + 0:01
Sample: 90909, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run O:B0402LC06
Free sectors: 5303
Instrument: 5100
Analyst: LC

Acquiring
Scan: 1 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 31 DegC
Elapsed time : 0: 7 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.200
Samp int (ms): 0.200

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

000516

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

4/2/91 13:51:29
Acquisition completed

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	832	3.9	665.6	0.6	9109.	11.	14.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 13:52:12
DATA FILE: B0402LC06
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	2	12	CLSRT1/CLSTC1
1	1	1	0	13	3	1	201	CLSRT2/CLSTC2
1	1	1	0	16	4	1	196	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 10 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT ><							------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	308	310	310	.	1	979	.	128	309	-1	1
2	CS	2	-100	101	.	.	.	.	.	50	.	.	.
3	CS	3	-109	110	.	.	.	.	.	94	.	.	.
4	CS	4	-101	102	.	.	.	.	.	62	.	.	.
5	CS	5	-110	111	.	.	.	.	.	64	.	.	.
6	CS	6	176	177	177	.	1	987	.	84	177	.	1
7	CS	7	152	153	153	.	2	919	.	43	153	.	1
8	CS	8	-156	157	.	.	.	.	.	76	154	.	1
9	CS	9	-144	145	.	.	.	.	.	96	.	.	.
10	CS	10	-227	228	.	.	.	.	.	63	.	.	.
11	CS	12	-323	325	.	.	.	.	.	83	327	.	1
12	CS	13	-336	338	.	.	.	.	.	97	333	.	1
13	CS	14	-117	118	.	.	.	.	.	101	116	.	1
14	CS	15	-192	193	.	.	.	.	.	96	.	.	.
15	CS	16	-281	283	.	.	.	.	.	96	.	.	.
16	CS	17	465	466	466	.	1	998	.	114	467	1	1
17	CS	18	-398	399	.	.	.	.	.	62	.	.	.
18	CS	19	293	294	293	-1	1	903	.	72	294	1	1
19	CS	20	-355	356	.	.	.	.	.	117	.	.	.
20	CS	21	-235	235	.	.	.	.	.	43	238	.	2
21	CS	22	-624	627	.	.	.	.	.	83	627	.	1
22	CS	23	-548	550	.	.	.	.	.	63	.	.	.
23	CS	24	-734	738	.	.	.	.	.	75	.	.	.
24	CS	25	-501	503	.	.	.	.	.	130	.	.	.
25	CS	27	-386	387	.	.	.	.	.	78	.	.	.
26	CS	28	-721	725	.	.	.	.	.	106	.	.	.
27	CS	29	385	386	388	2	1	969	.	65	388	.	1
28	CS	43	-1456	1464	.	.	.	.	.	173	.	.	.
29	CS	30	1299	1305	1305	.	1	995	.	117	1306	1	1
30	CS	26	-1123	1127	.	.	.	.	.	129	.	.	.
31	CS	31	-1002	1005	.	.	.	.	.	97	.	.	.
32	CS	32	-947	950	.	.	.	.	.	75	.	.	.
33	CS	33	-1129	1133	.	.	.	.	.	43	1133	.	3
34	CS	34	-837	840	.	.	.	.	.	43	.	.	.
35	CS	35	-1002	1005	.	.	.	.	.	164	.	.	.
36	CS	36	-1718	1724	.	.	.	.	.	83	1724	.	2
37	CS	37	-836	839	837	-2	1	852	.	91	838	1	1
38	CS	38	-1308	1313	.	.	.	.	.	112	1314	.	1
39	CS	39	-1360	1365	.	.	.	.	.	106	.	.	.
40	CS	40	-1516	1521	.	.	.	.	.	104	.	.	.
41	CS	41	-1398	1403	.	.	.	.	.	106	.	.	.
42	CS	42	-1504	1509	.	.	.	.	.	106	.	.	.
43	CS	44	1643	1649	1648	-1	1	990	.	95	1648	.	1
44	CS	45	816	819	820	1	1	994	.	98	820	.	1

000518

Quantitation Report File: B0402LC06

Data: B0402LC06.TI
04/02/91 13:23:00
Sample: 90909, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	309	4:07	1	1.000	A BB	10199.	50.000 UG/G	11.04
2	NOT	FOUND							
3	NOT	FOUND							
4	NOT	FOUND							
5	NOT	FOUND							
6	84	177	2:22	1	0.573	A BB	355.	~~1.141~~ UG/G	0.25
7	43	153	2:02	1	0.495	A BB	716.	6.138 UG/G	1.35
8	76	154	2:03	1	0.498	A BB	111.	~~0.113~~ UG/G	0.02
9	NOT	FOUND							
10	NOT	FOUND							
11	83	327	4:22	1	1.058	A BB	368.	~~0.594~~ UG/G	0.13
12	97	333	4:26	1	1.078	A BB	50.	~~0.121~~ UG/G	0.03
13	101	116	1:33	1	0.375	A BB	30.	~~0.242~~ UG/G	0.05
14	NOT	FOUND							
15	NOT	FOUND							
16	114	467	6:14	16	1.000	A BB	48522.	50.000 UG/G	11.04
17	NOT	FOUND							
18	72	294	3:55	16	0.630	A BB	58.	~~1.260~~ UG/G	0.28
19	NOT	FOUND							
20	43	238	3:10	16	0.510	A*VB	107.	~~0.475~~ UG/G	0.10
21	83	627	8:22	16	1.343	A BB	20.	~~0.038~~ UG/G	0.01
22	NOT	FOUND							
23	NOT	FOUND							
24	NOT	FOUND							
25	NOT	FOUND							
26	NOT	FOUND							
27	65	388	5:10	16	0.831	A BB	14296.	94.937 %	20.96
28	NOT	FOUND							
29	117	1306	17:25	29	1.000	A BB	54894.	50.000 UG/G	11.04
30	NOT	FOUND							
31	NOT	FOUND							
32	NOT	FOUND							
33	43	1133	15:06	29	0.868	A*BV	174.	~~0.393~~ UG/G	0.09
34	NOT	FOUND							
35	NOT	FOUND							
36	83	1724	22:59	29	1.320	A*BB	36.	~~0.050~~ UG/G	0.01
37	91	838	11:10	29	0.642	A BV	263.	~~0.186~~ UG/G	0.04
38	112	1314	17:31	29	1.006	A BB	101.	~~0.098~~ UG/G	0.02
39	NOT	FOUND							
40	NOT	FOUND							
41	NOT	FOUND							
42	NOT	FOUND							
43	95	1648	21:58	29	1.262	A BB	55817.	102.818 %	22.70
44	98	820	10:56	29	0.628	A BB	59416.	94.549 %	20.87

Quantitation Report File: B0402LC06A

Data: B0402LC06.TI
04/02/91 13:23:00
Sample: 90909, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	PROPANE, 2-CHLORO-1-METHOXY-
2	BENZENE, FLUORO-

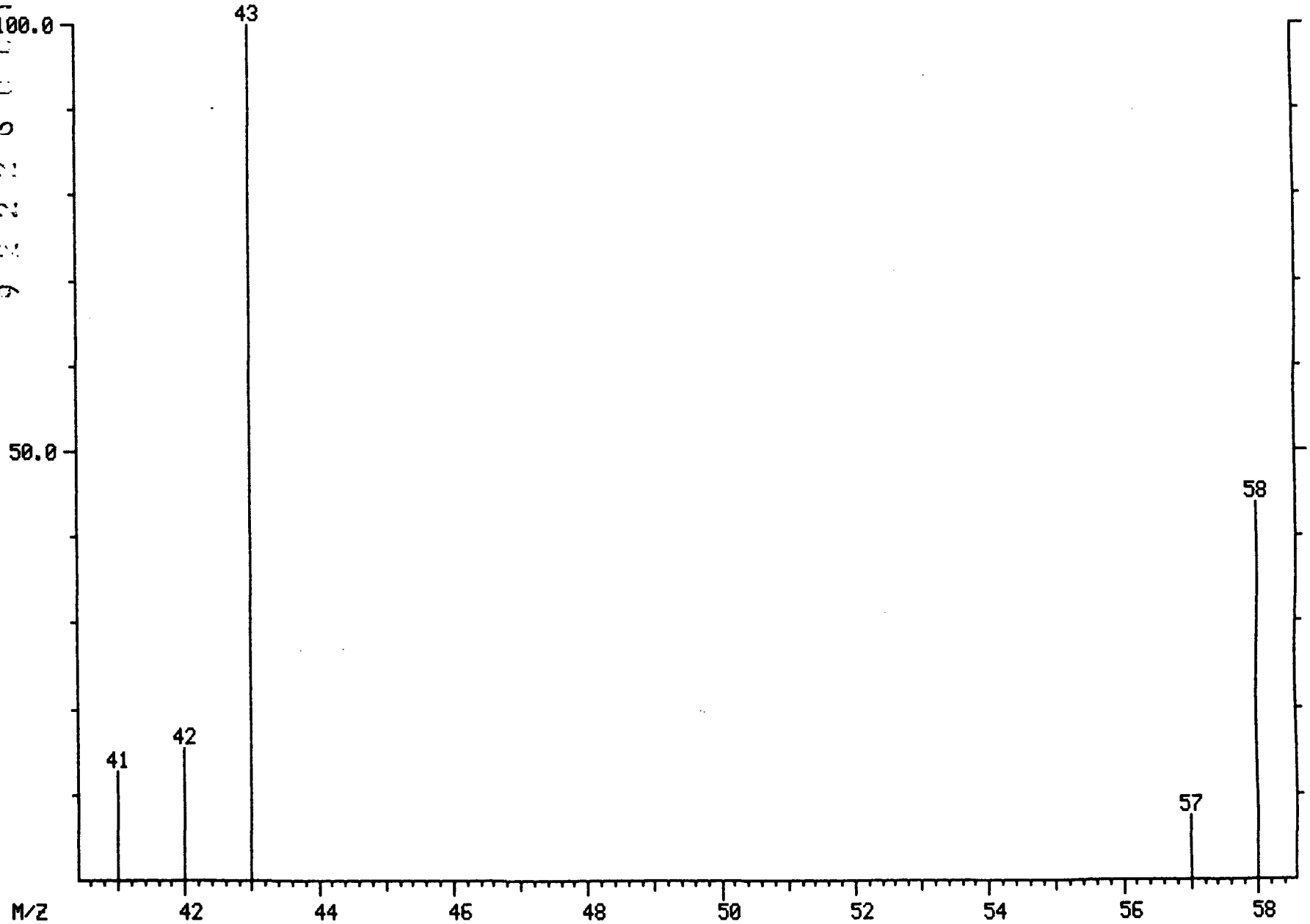
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	113	1:30	2	0.257	A BB	6077.	~~2.420~~	3.53
2	RIC	439	5:51	2	1.000	A BB	166199.	66.200	96.47

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/02/91 13:23:00 + 2:02
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 #153
CALI: B0402LC06 #3

BASE M/Z: 43
RIC: 196.



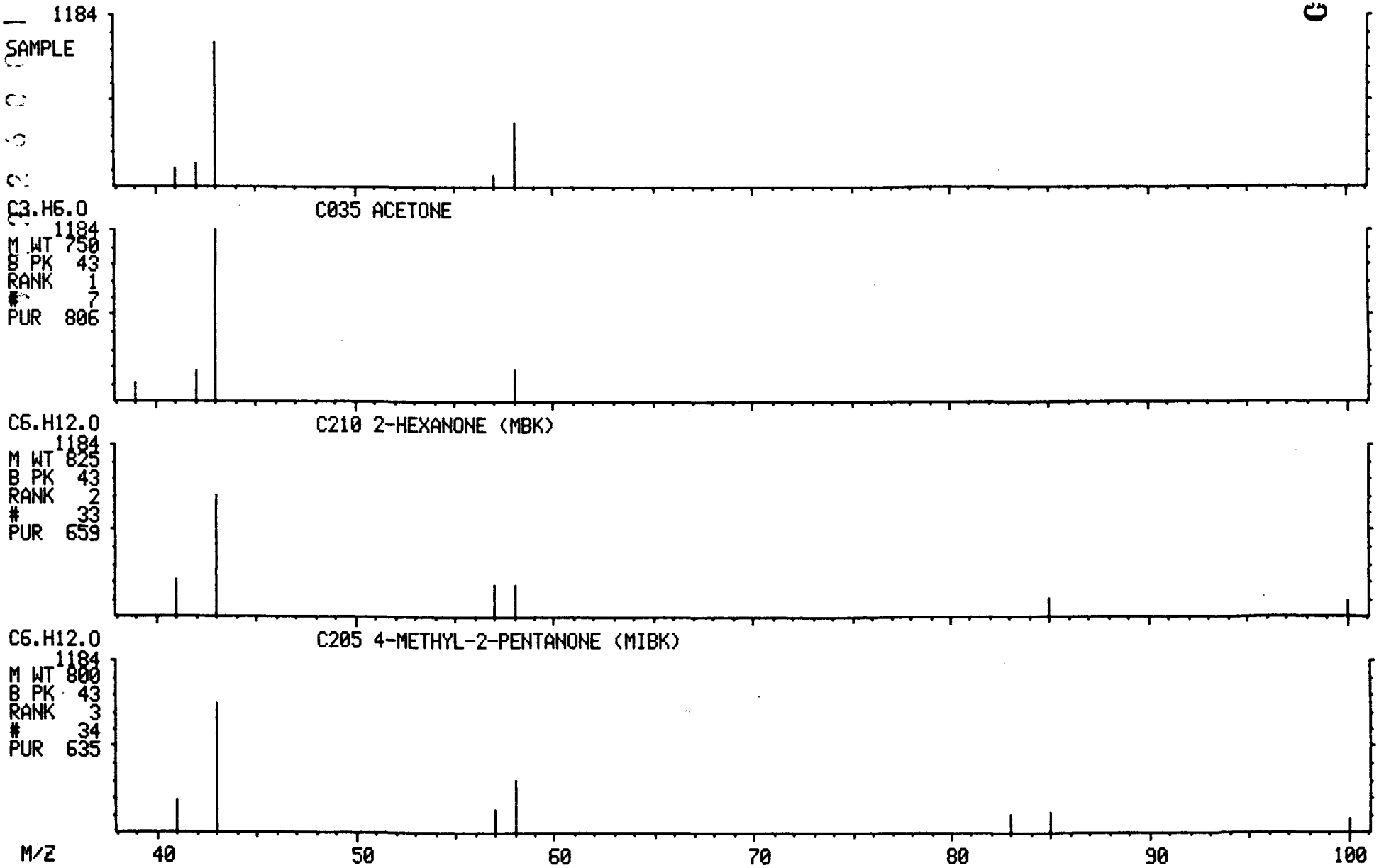
109.

000523

LIBRARY SEARCH
04/02/91 13:23:00 + 2:02
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 # 153
CALI: B0402LC06 # 3

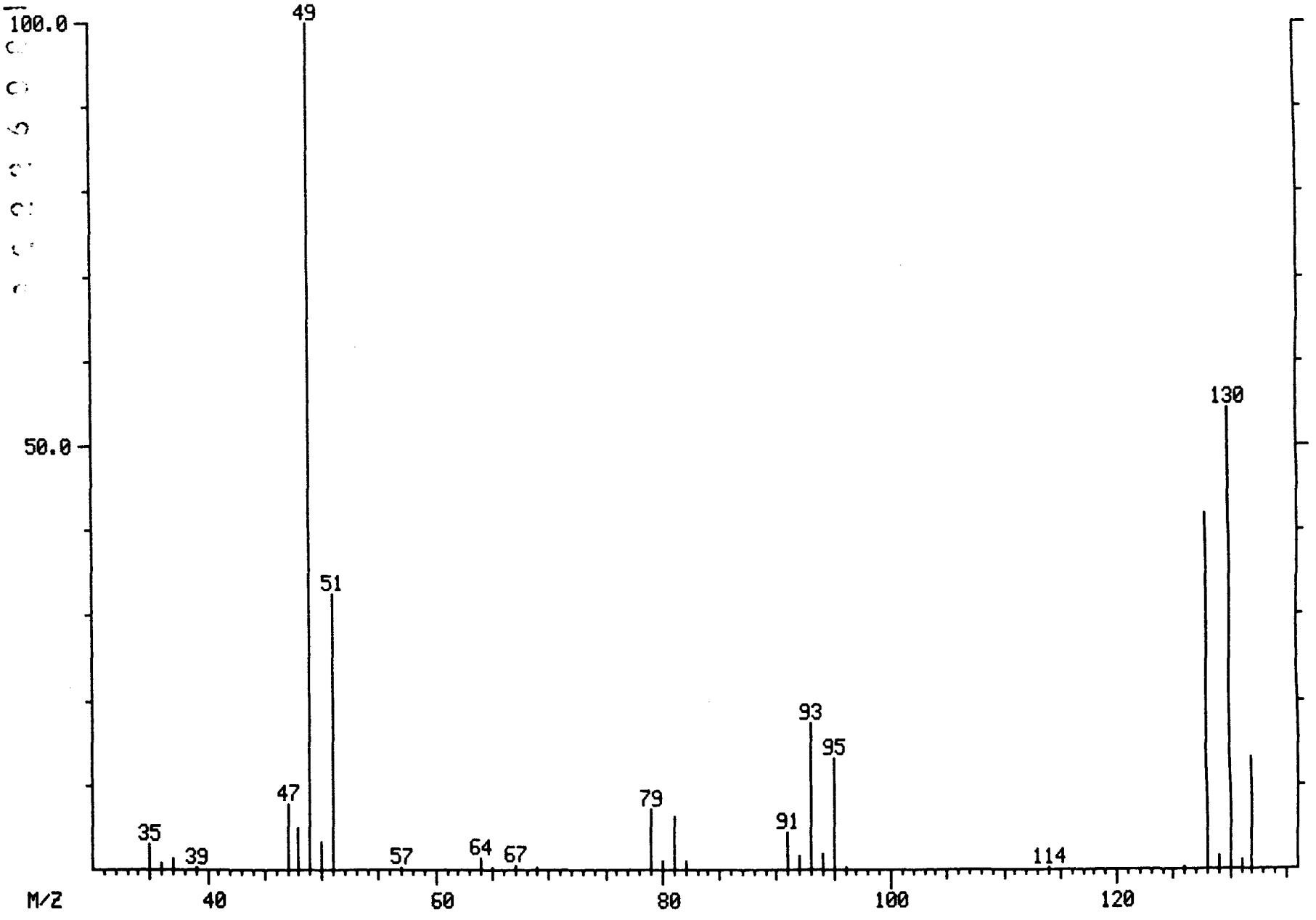
BASE M/Z: 43
RIC: 195.



MASS SPECTRUM
04/02/91 13:23:00 + 4:07
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 #309
CALI: B0402LC06 #3

BASE M/Z: 49
RIC: 10848.

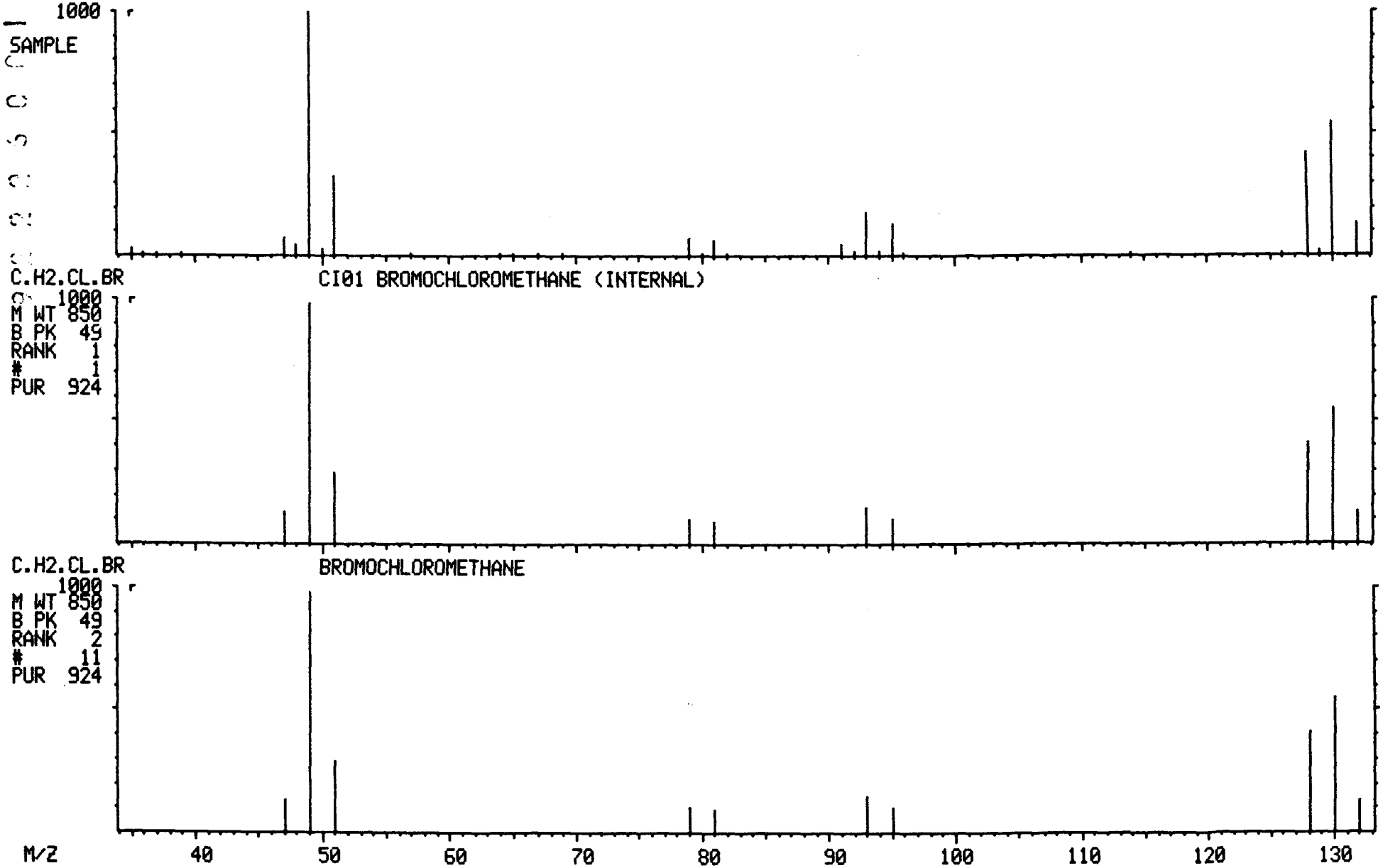


3348.

LIBRARY SEARCH
04/02/91 13:23:00 + 4:07
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 # 309
CALI: B0402LC06 # 3

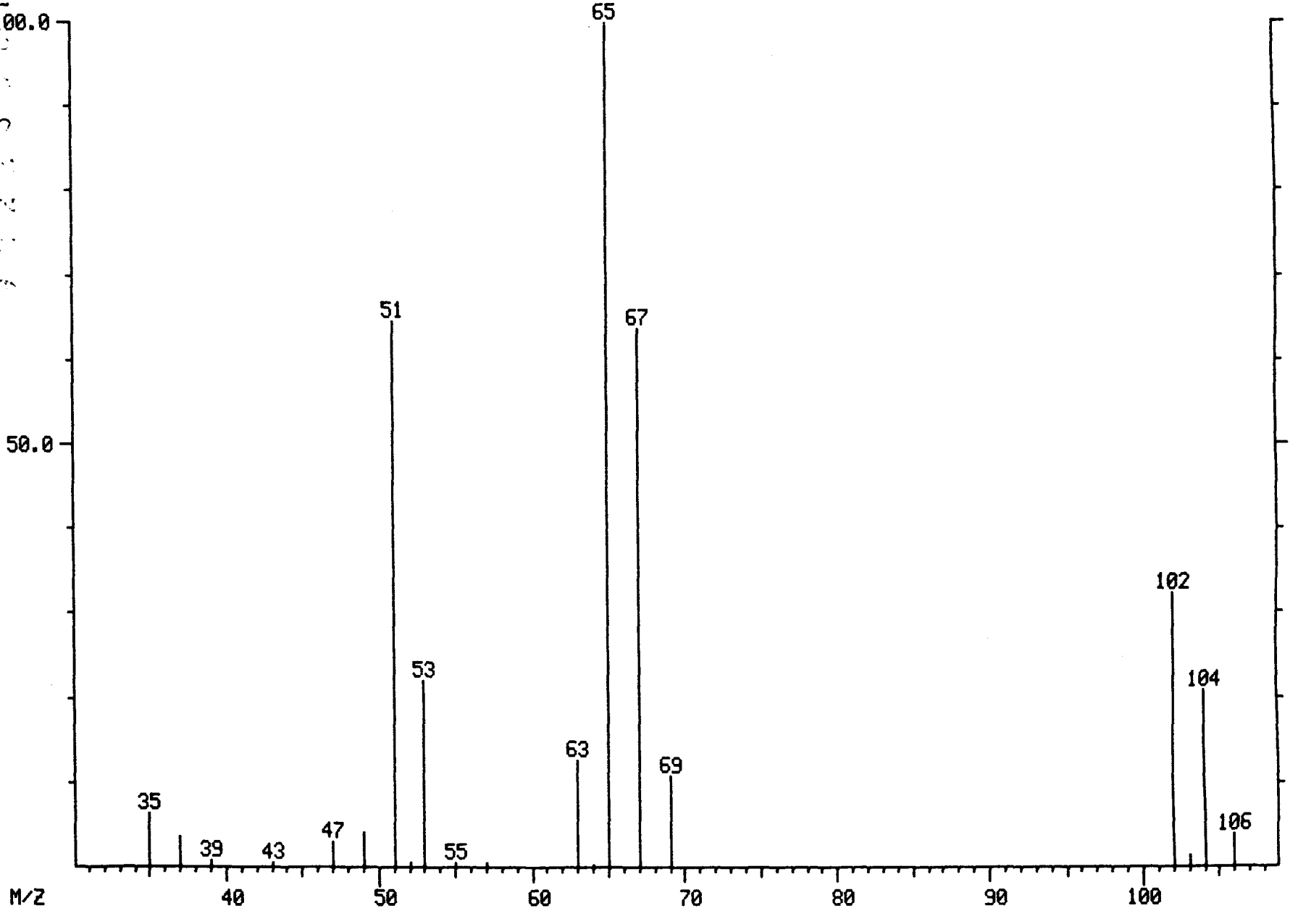
BASE M/Z: 49
RIC: 10815.



MASS SPECTRUM
04/02/91 13:23:00 + 5:10
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 #388
CALI: B0402LC06 #3

BASE M/Z: 65
RIC: 5160.

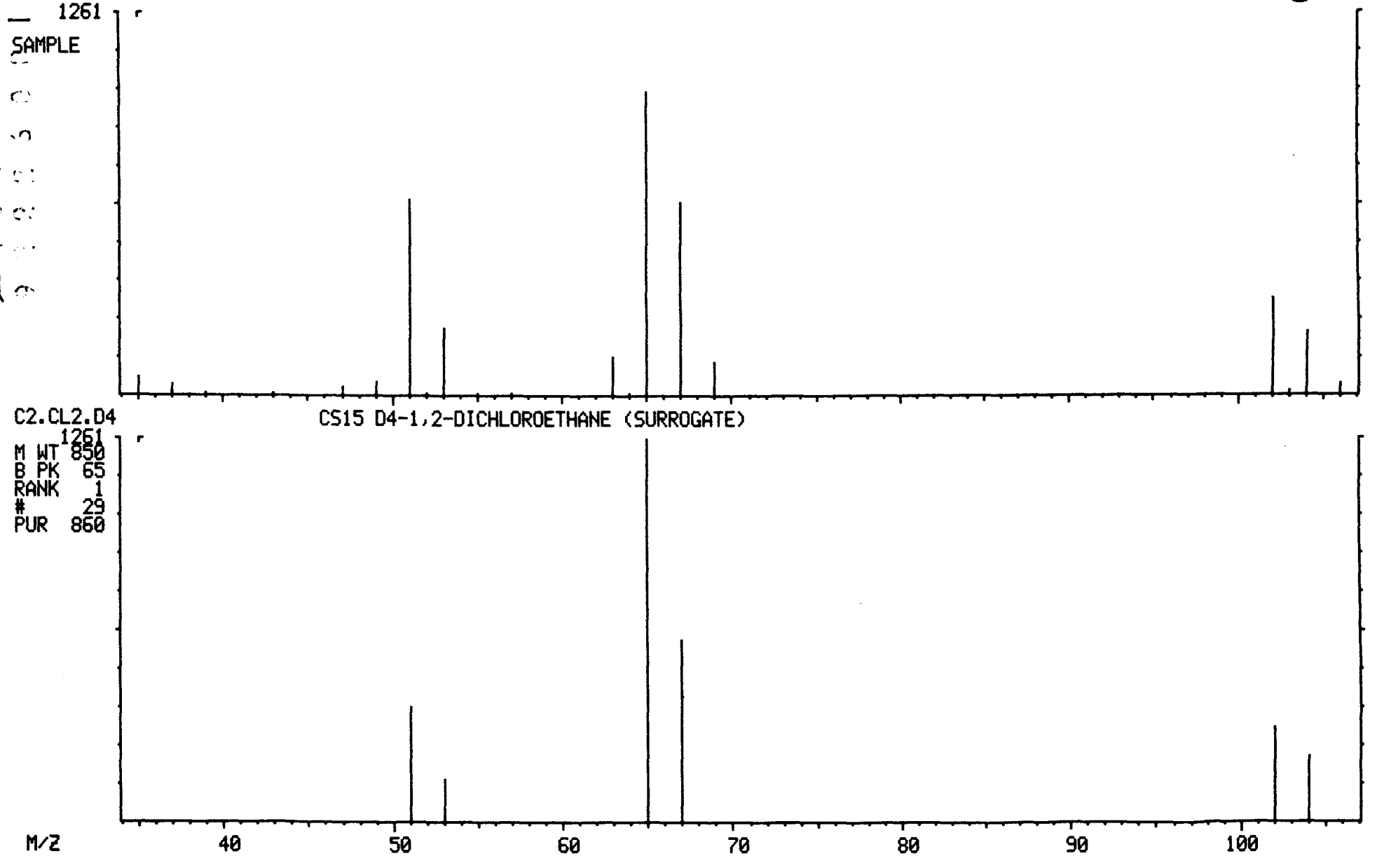


LIBRARY SEARCH
04/02/91 13:23:00 + 5:10
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 # 388
CALI: B0402LC06 # 3

BASE M/Z: 65
RIC: 5159.

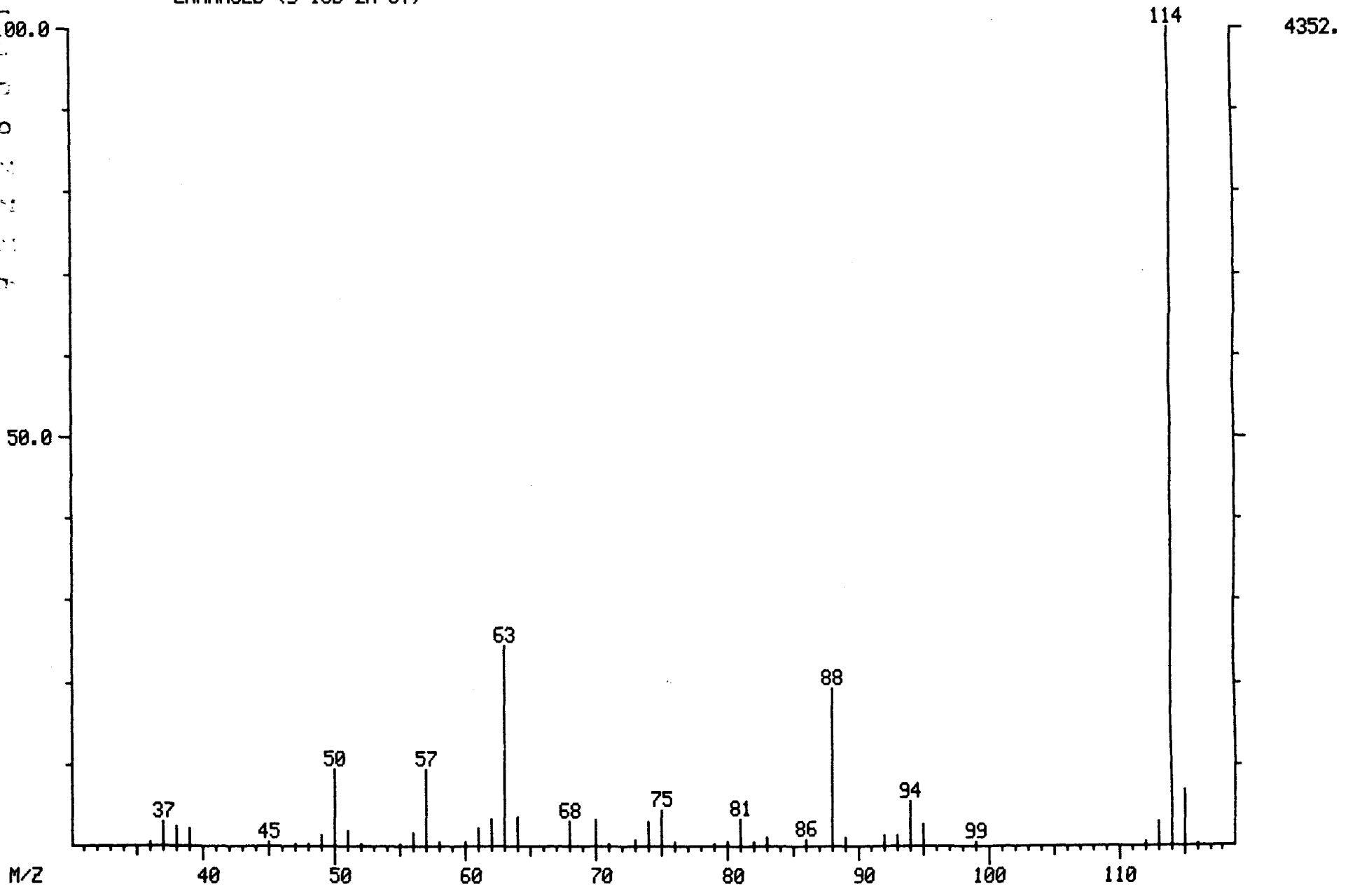
825600



MASS SPECTRUM
04/02/91 13:23:00 + 6:14
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 37 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 #467
CALI: B0402LC06 #3

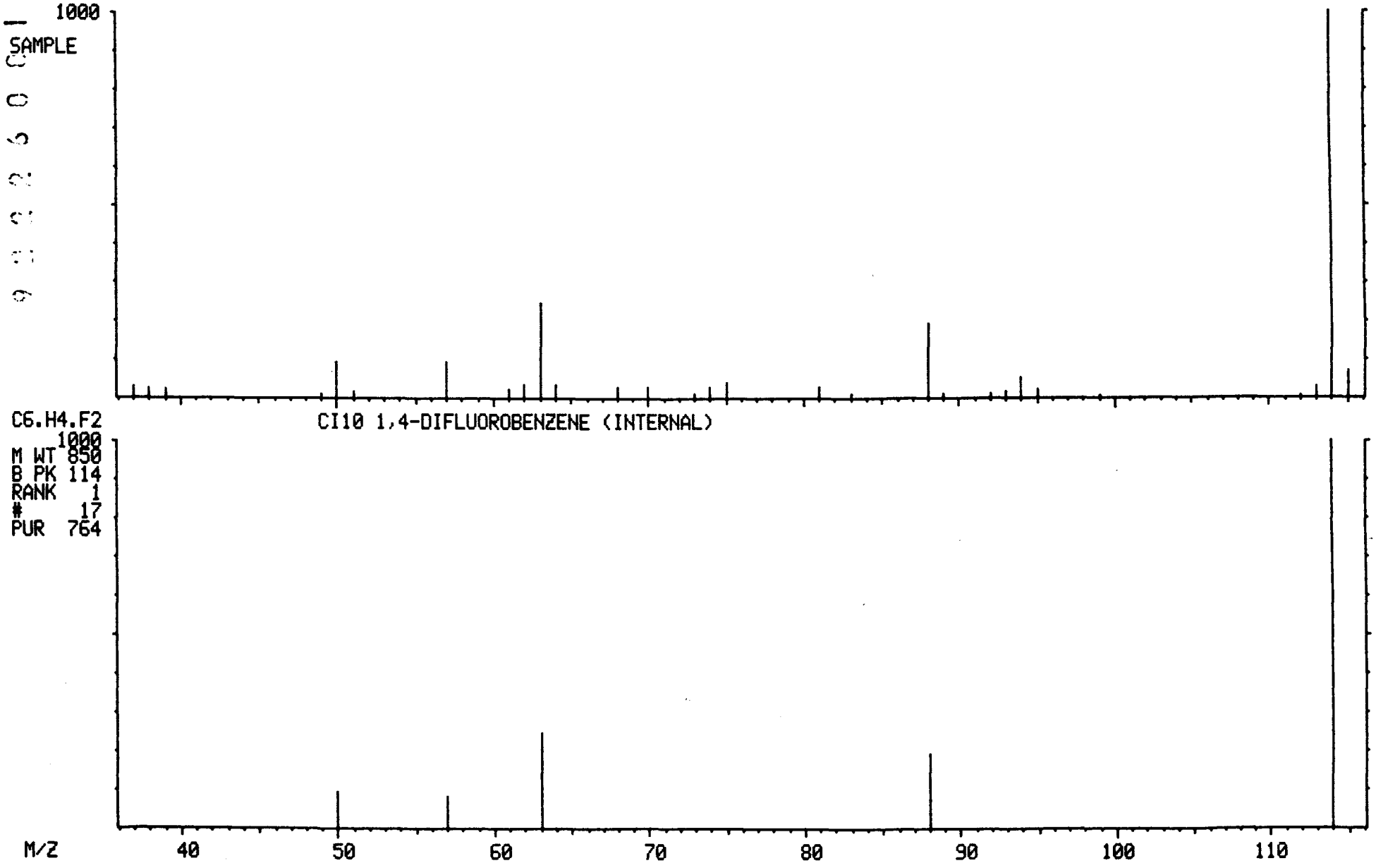
BASE M/Z: 114
RIC: 10176.



LIBRARY SEARCH
04/02/91 13:23:00 + 6:14
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 # 467
CALI: B0402LC06 # 3

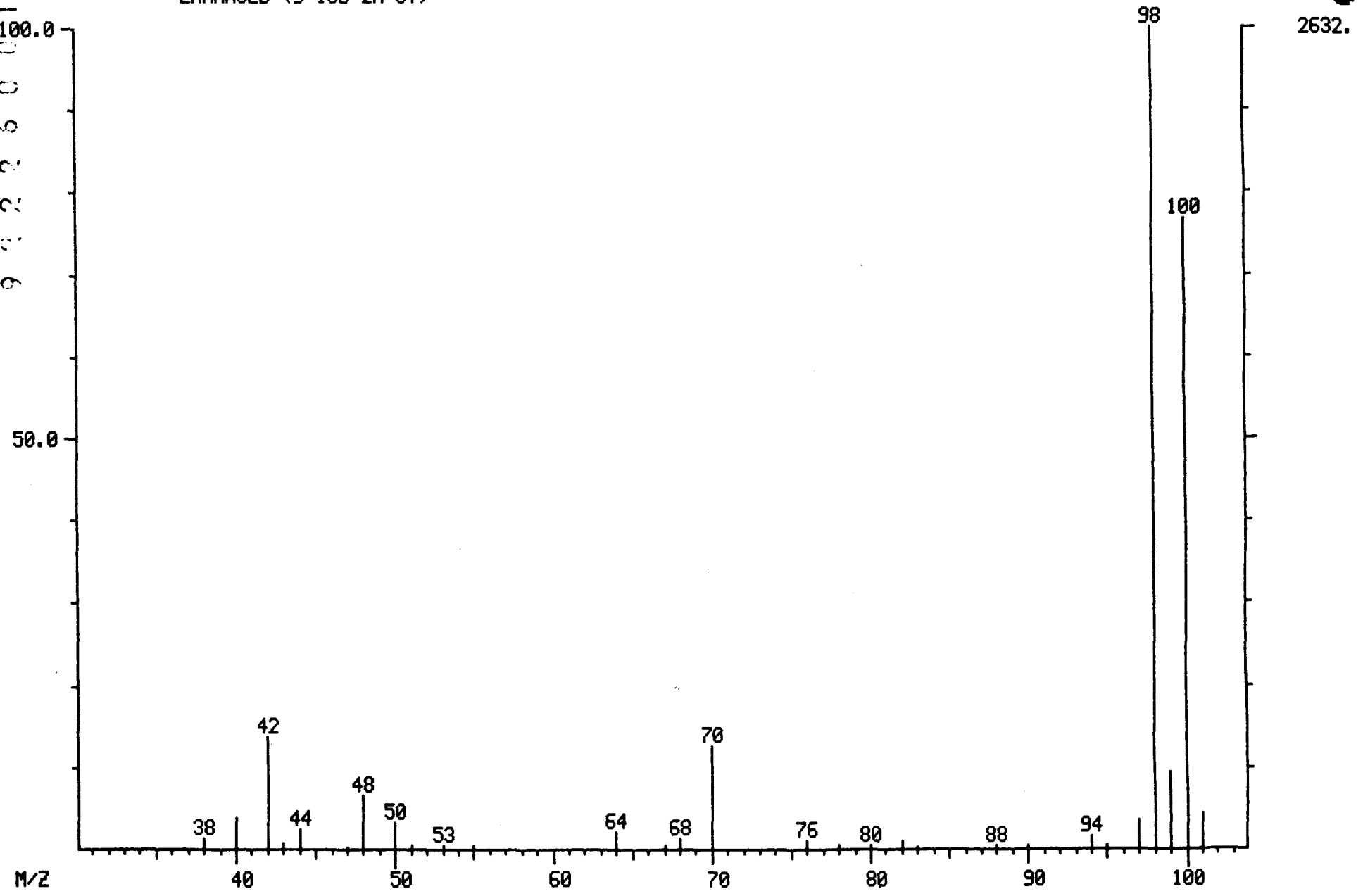
BASE M/Z: 114
RIC: 9775.



MASS SPECTRUM
04/02/91 13:23:00 + 10:56
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 #820
CALI: B0402LC06 #3

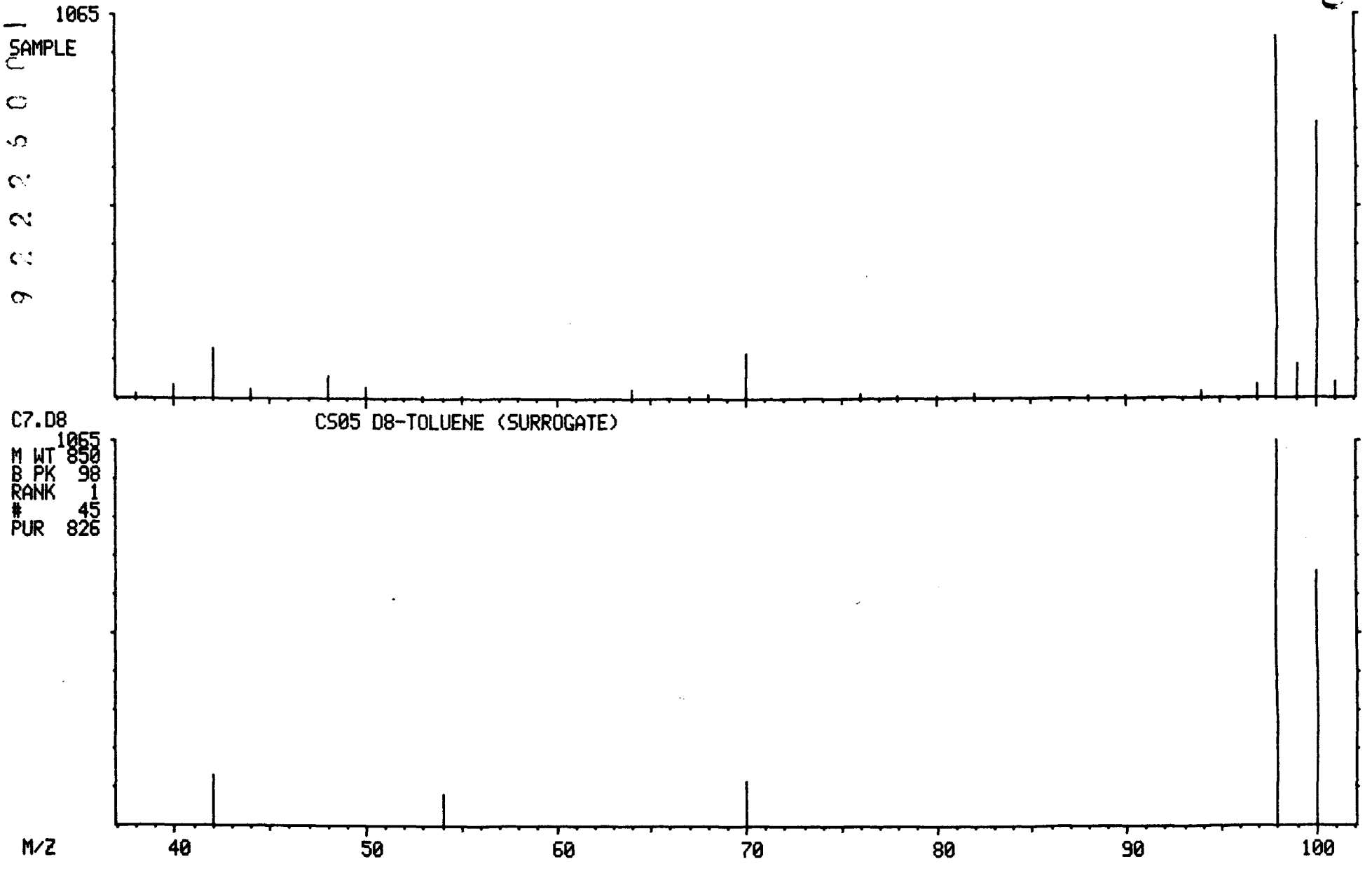
BASE M/Z: 98
RIC: 6648.



LIBRARY SEARCH
04/02/91 13:23:00 + 10:56
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 # 820
CALI: B0402LC06 # 3

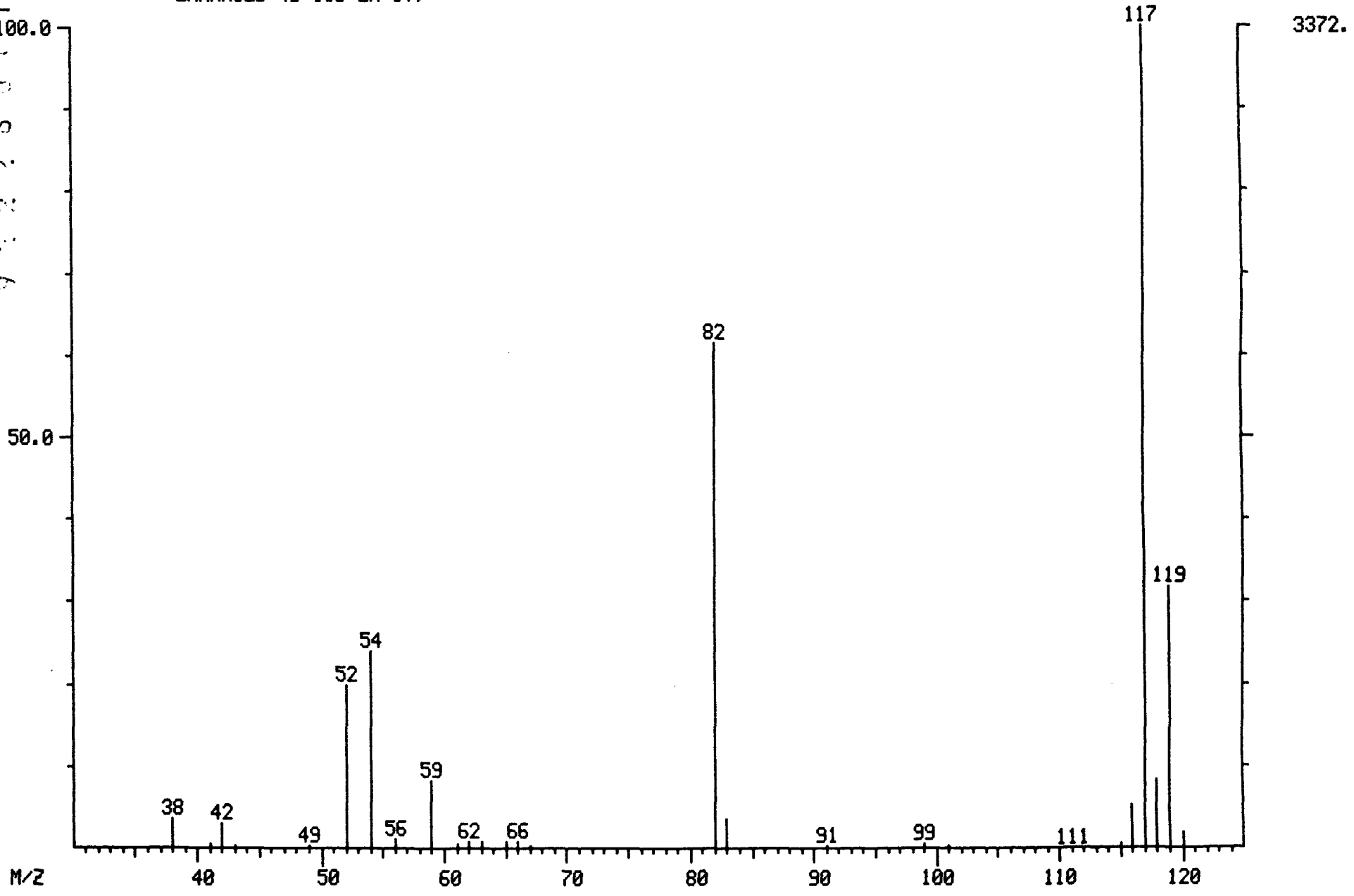
BASE M/Z: 98
RIC: 6575.



MASS SPECTRUM
04/02/91 13:23:00 + 17:25
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 #1306
CALI: B0402LC06 #3

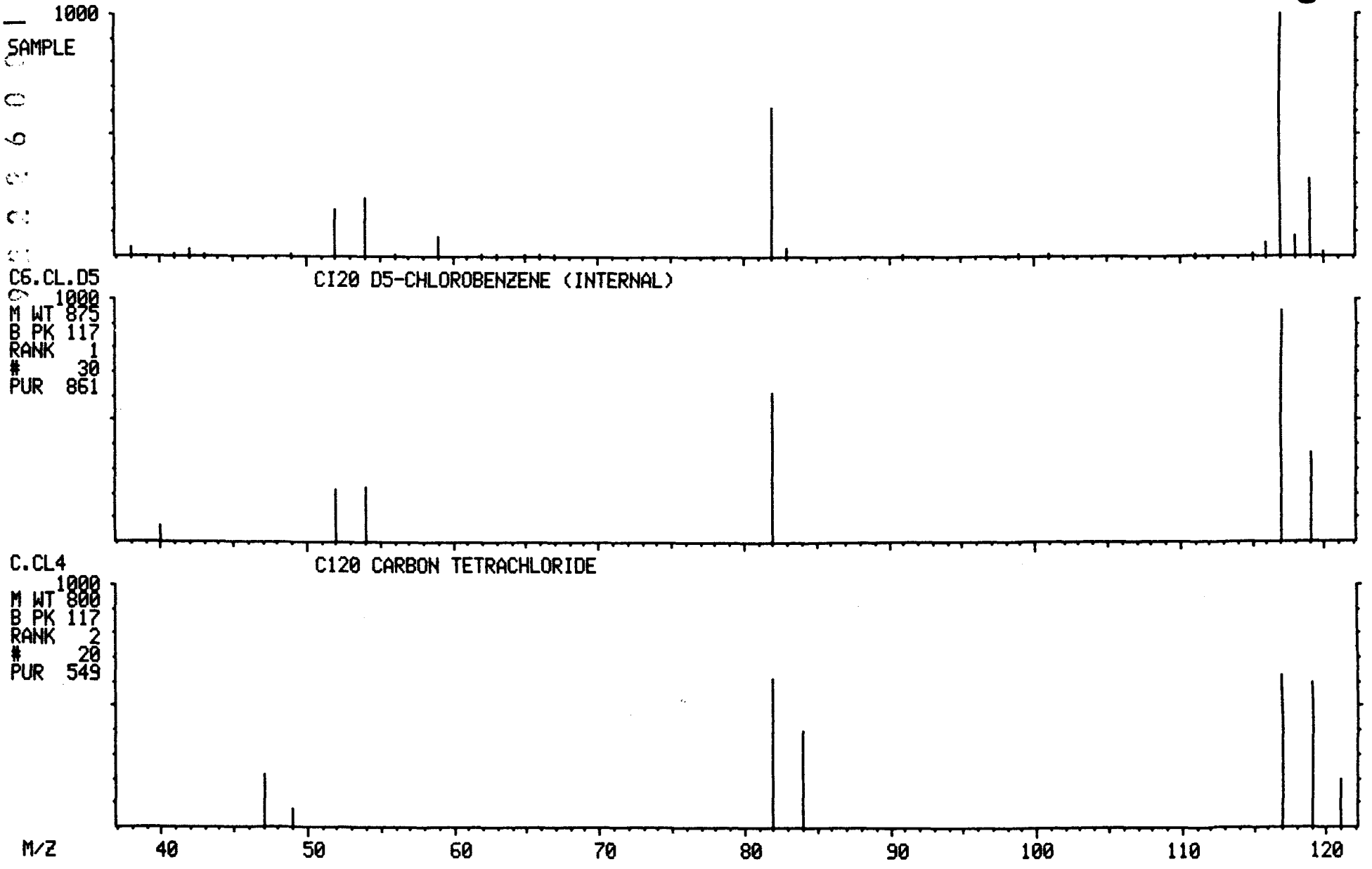
BASE M/Z: 117
RIC: 9440.



LIBRARY SEARCH
04/02/91 13:23:00 + 17:25
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 #1306
CALI: B0402LC06 # 3

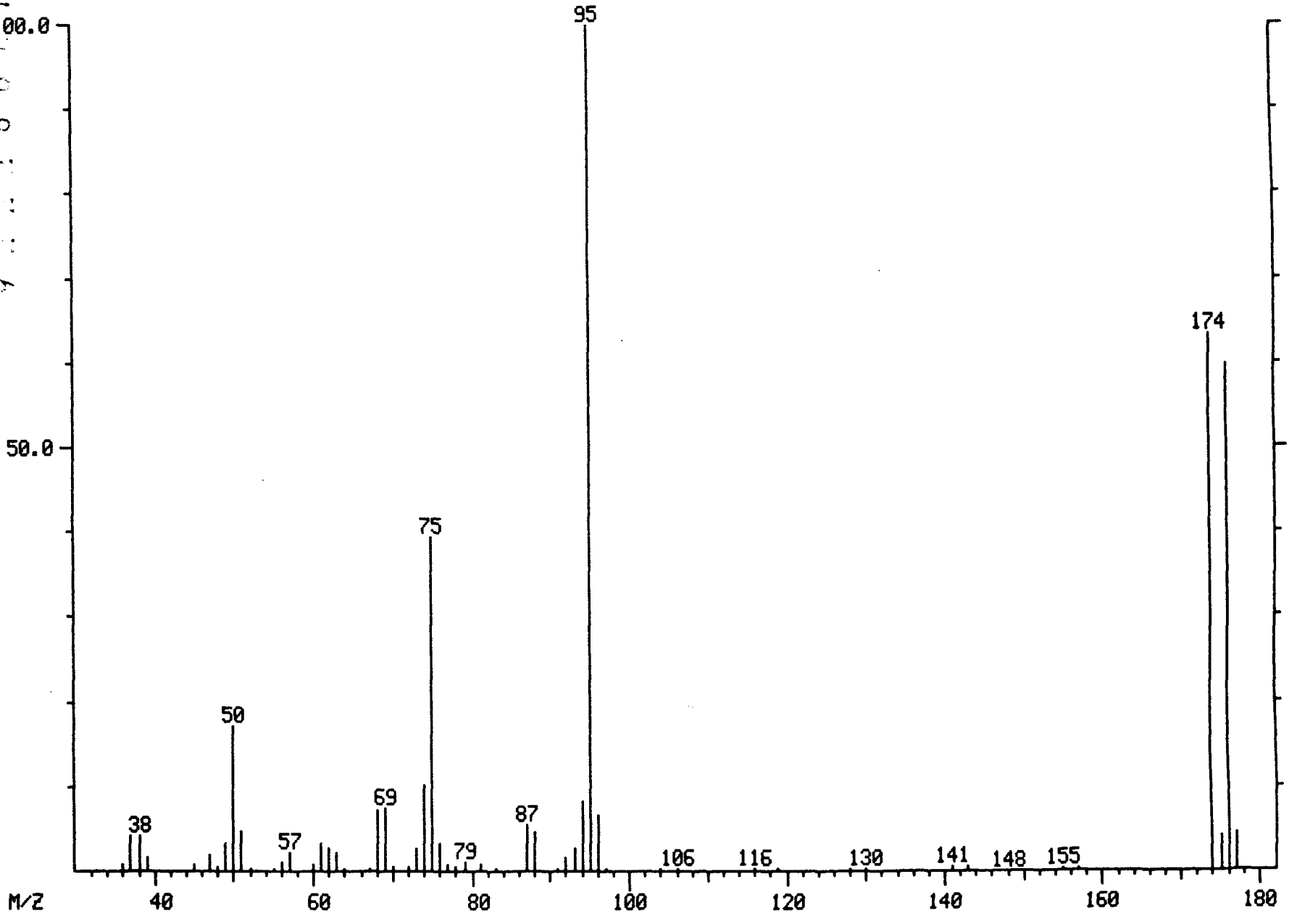
BASE M/Z: 117
RIC: 9423.



MASS SPECTRUM
04/02/91 13:23:00 + 21:58
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 #1648
CALI: B0402LC06 #3

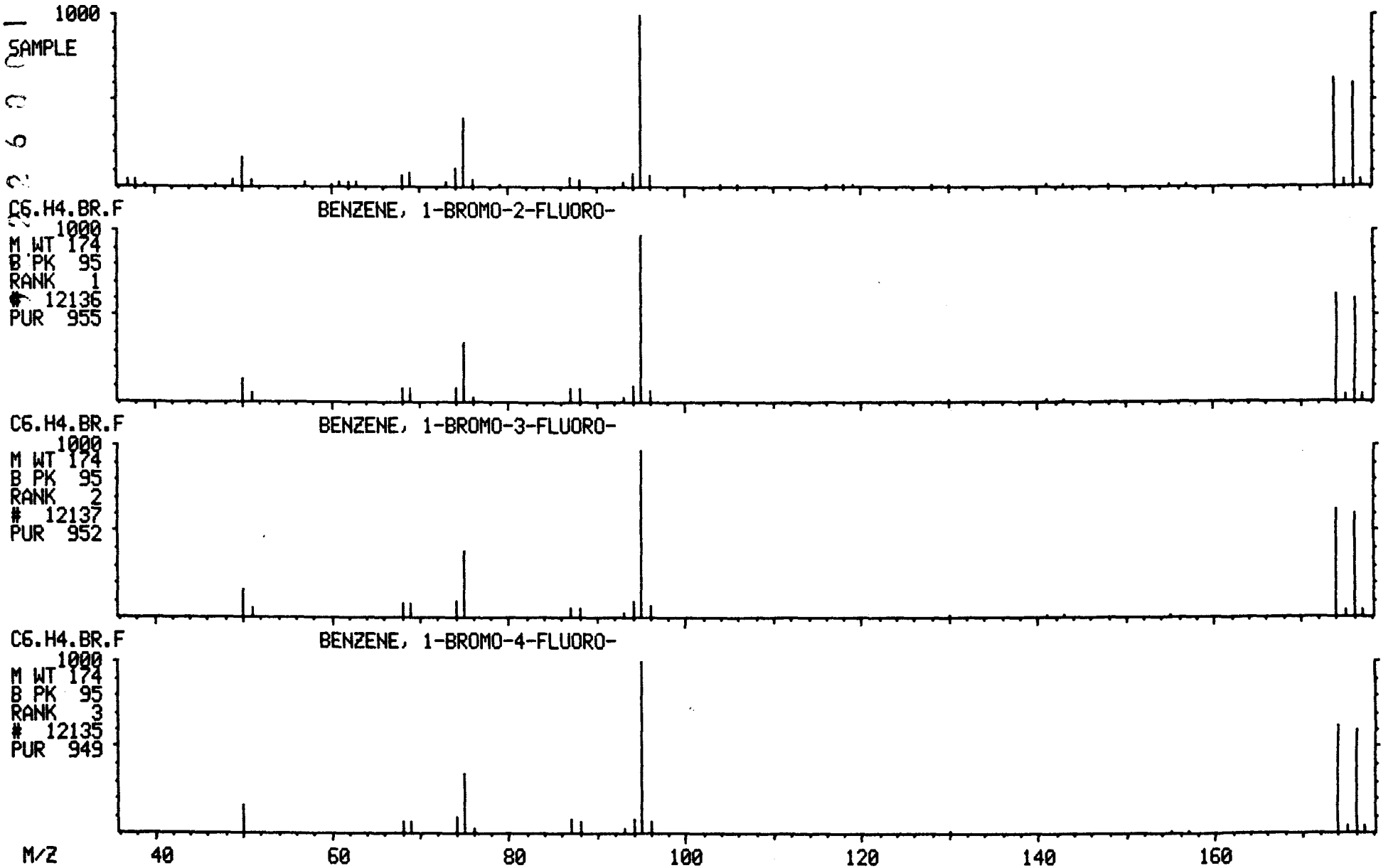
BASE M/Z: 95
RIC: 21568.



LIBRARY SEARCH
04/02/91 13:23:00 + 21:58
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 #1648
CALI: B0402LC06 # 3

BASE M/Z: 95
RIC: 21023.

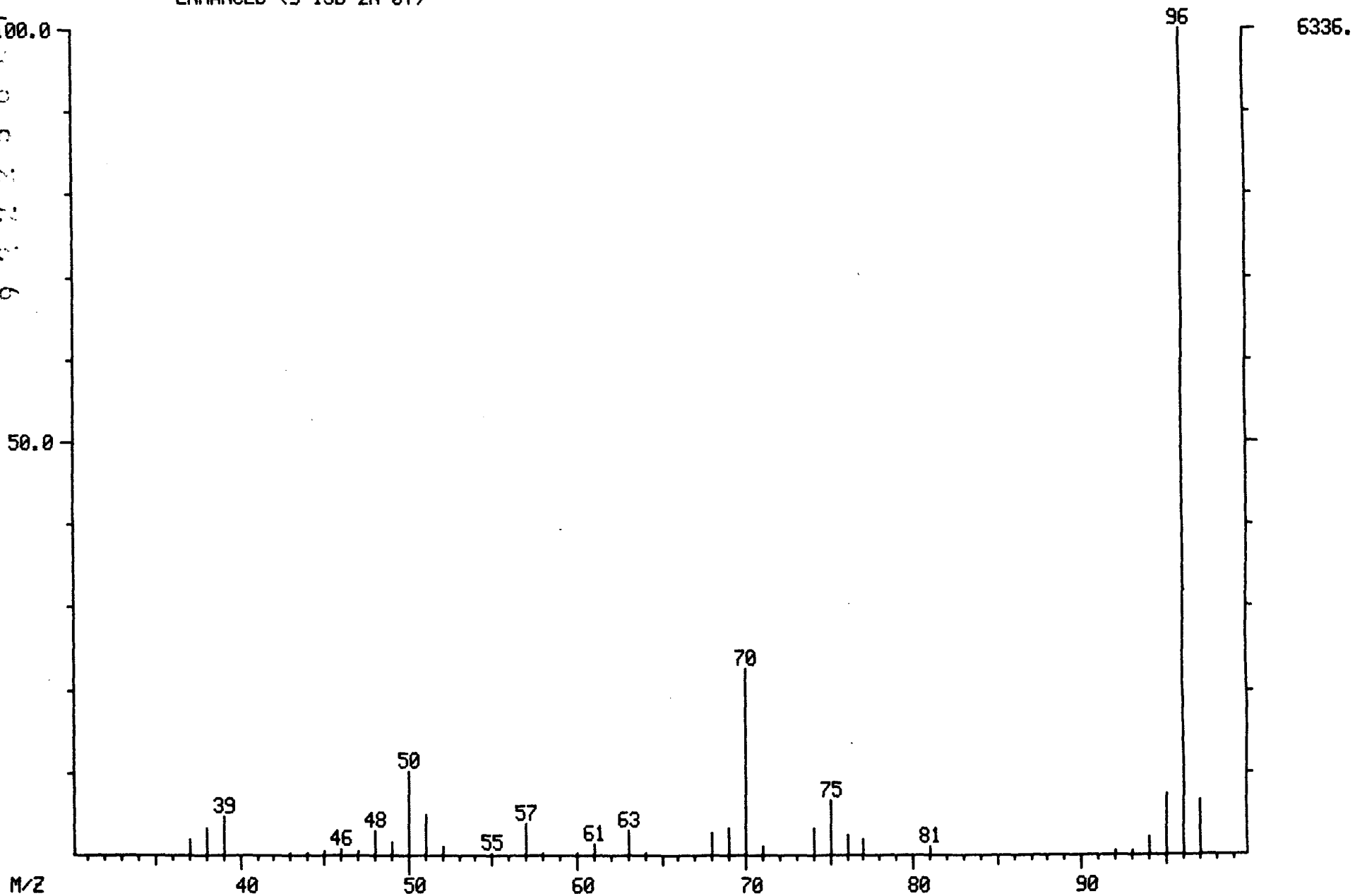


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/02/91 13:23:00 + 5:51
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 37 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 #439
CALI: B0402LC06 #3

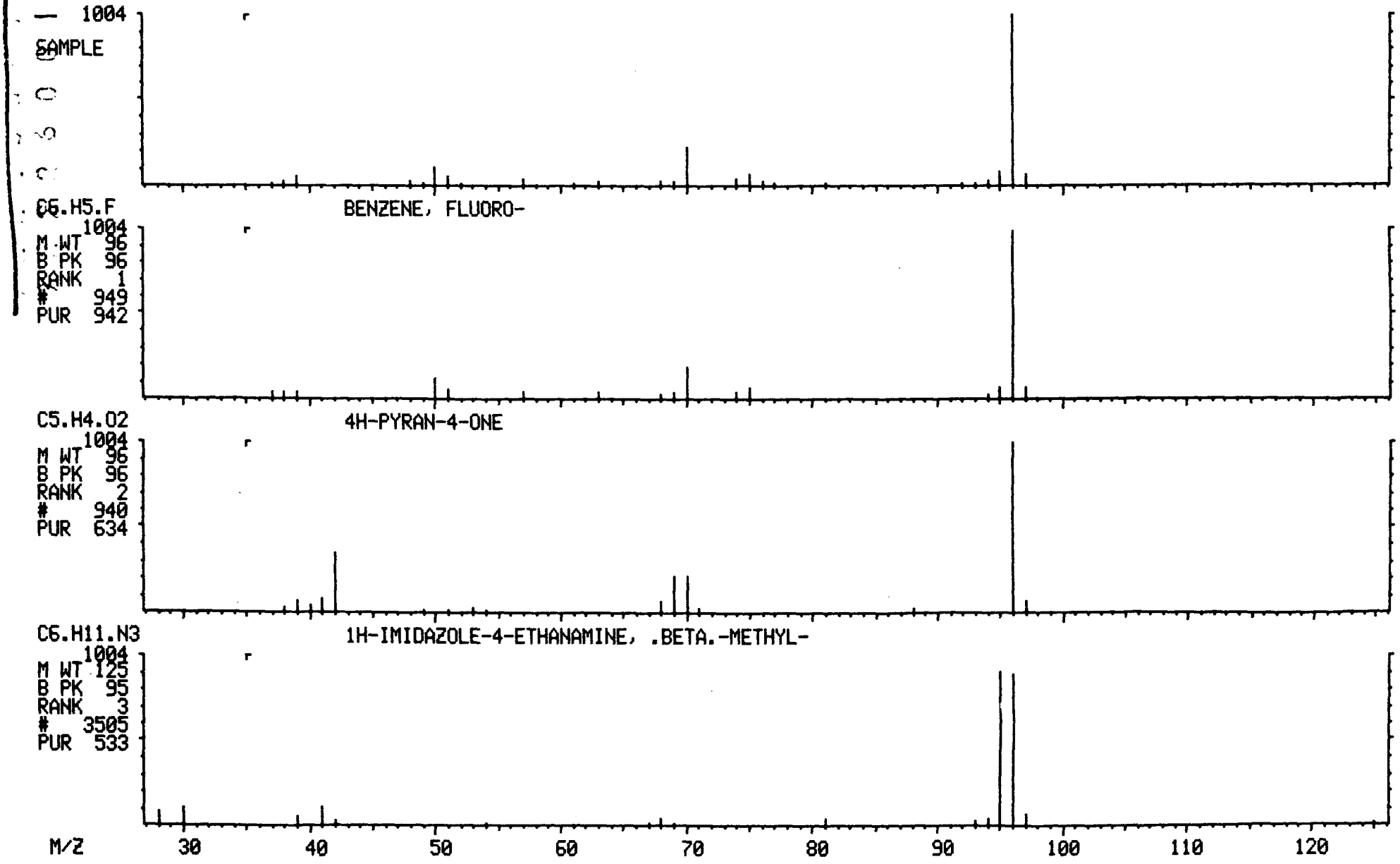
BASE M/Z: 96
RIC: 13104.



LIBRARY SEARCH
04/02/91 13:23:00 + 5:51
SAMPLE: 90909, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC06 # 439
CALI: B0402LC06 # 3

BASE M/Z: 96
RIC: 12783.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190910

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0402LC08

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 24 Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	7	U
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	13	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	7	U
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
1330-20-7	Xylene (total)	7	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X112

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190910

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0402LC08

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 24 Date Analyzed: 04/02/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000541

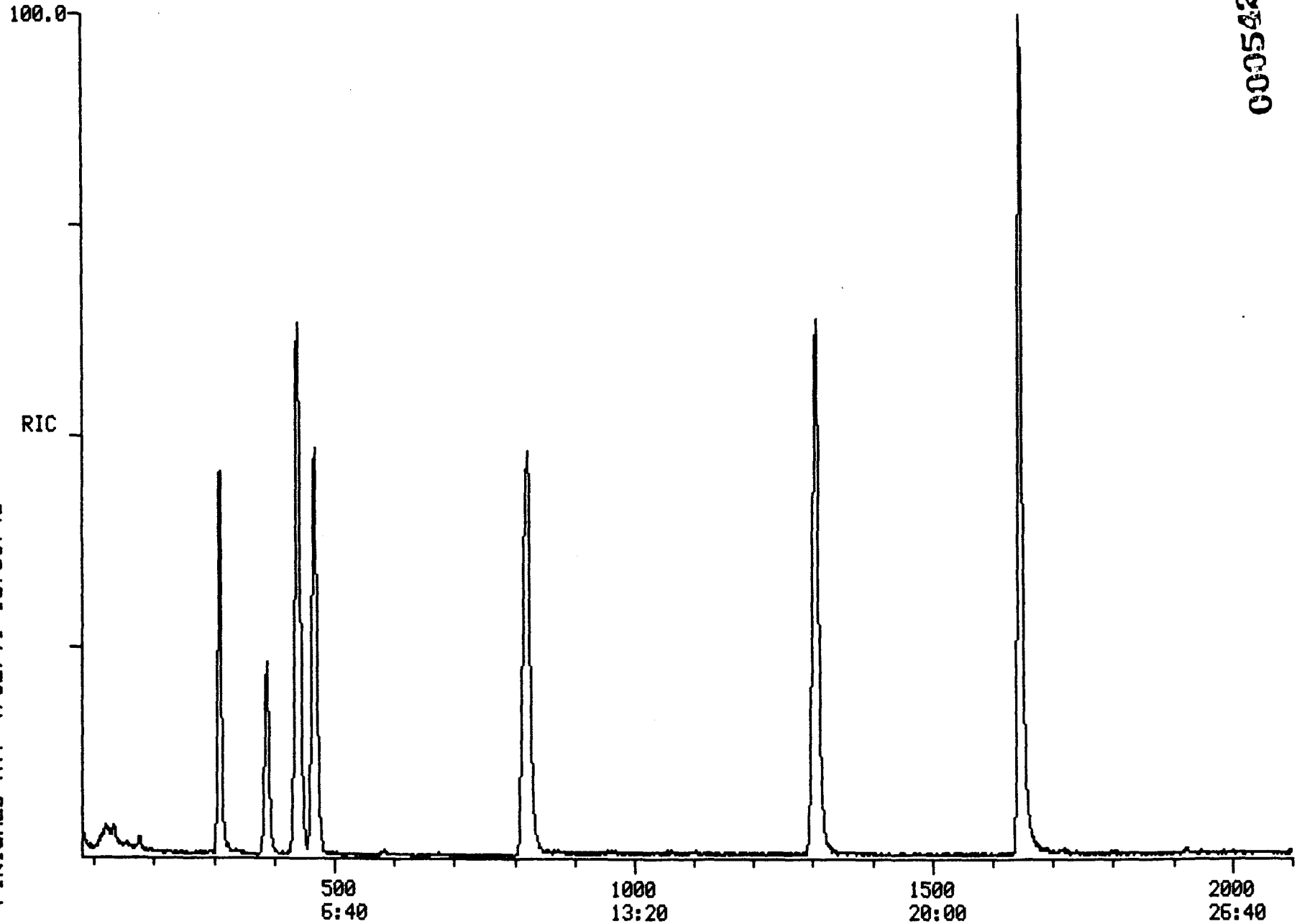
X 112

RIC
04/02/91 14:37:00
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC08 #1
CALI: B0402LC08 #3

SCANS 80 TO 2100

000542

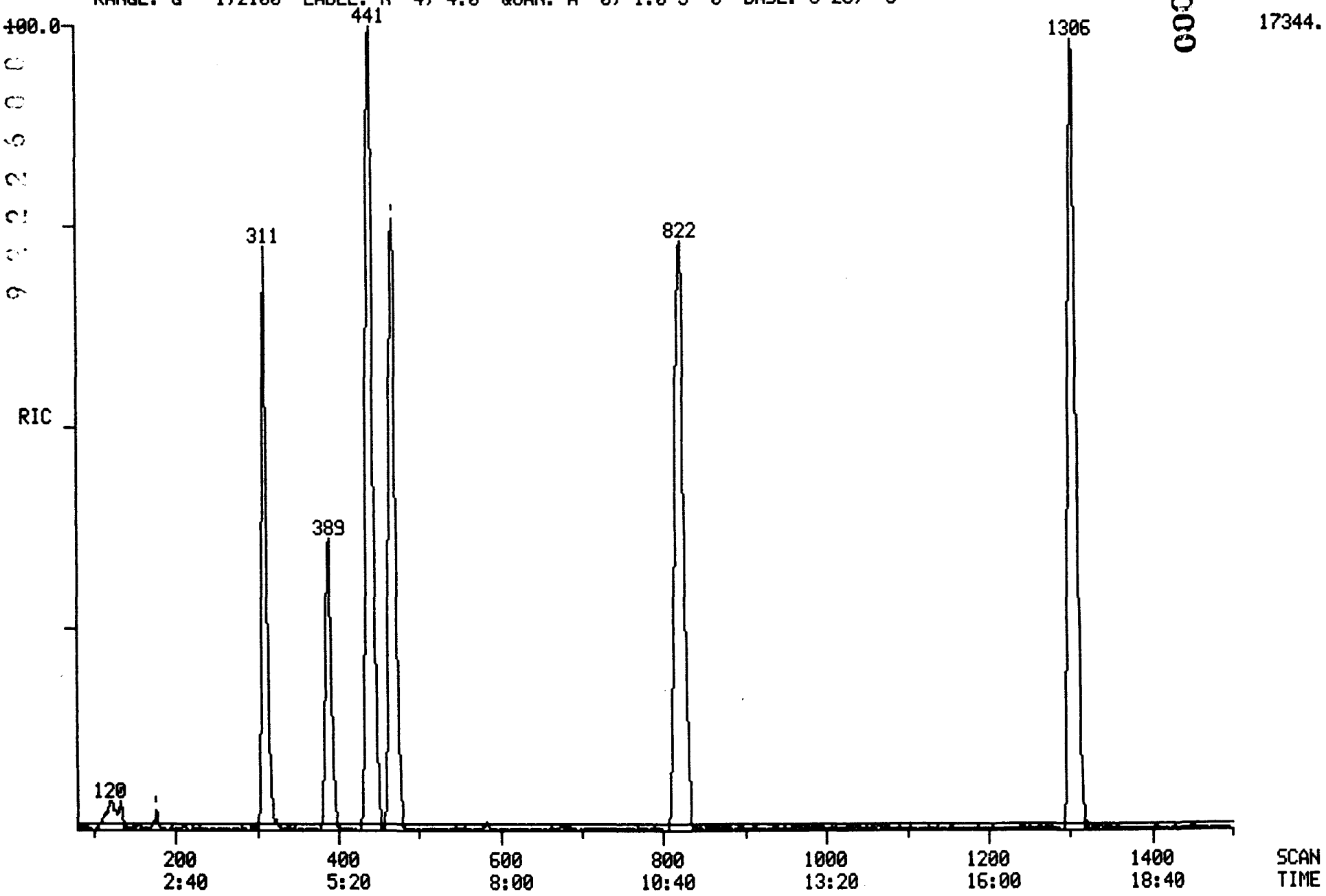


TCA FINISHED, 9 FOUND
FINISHED AT: 4/02/91 18:30:46

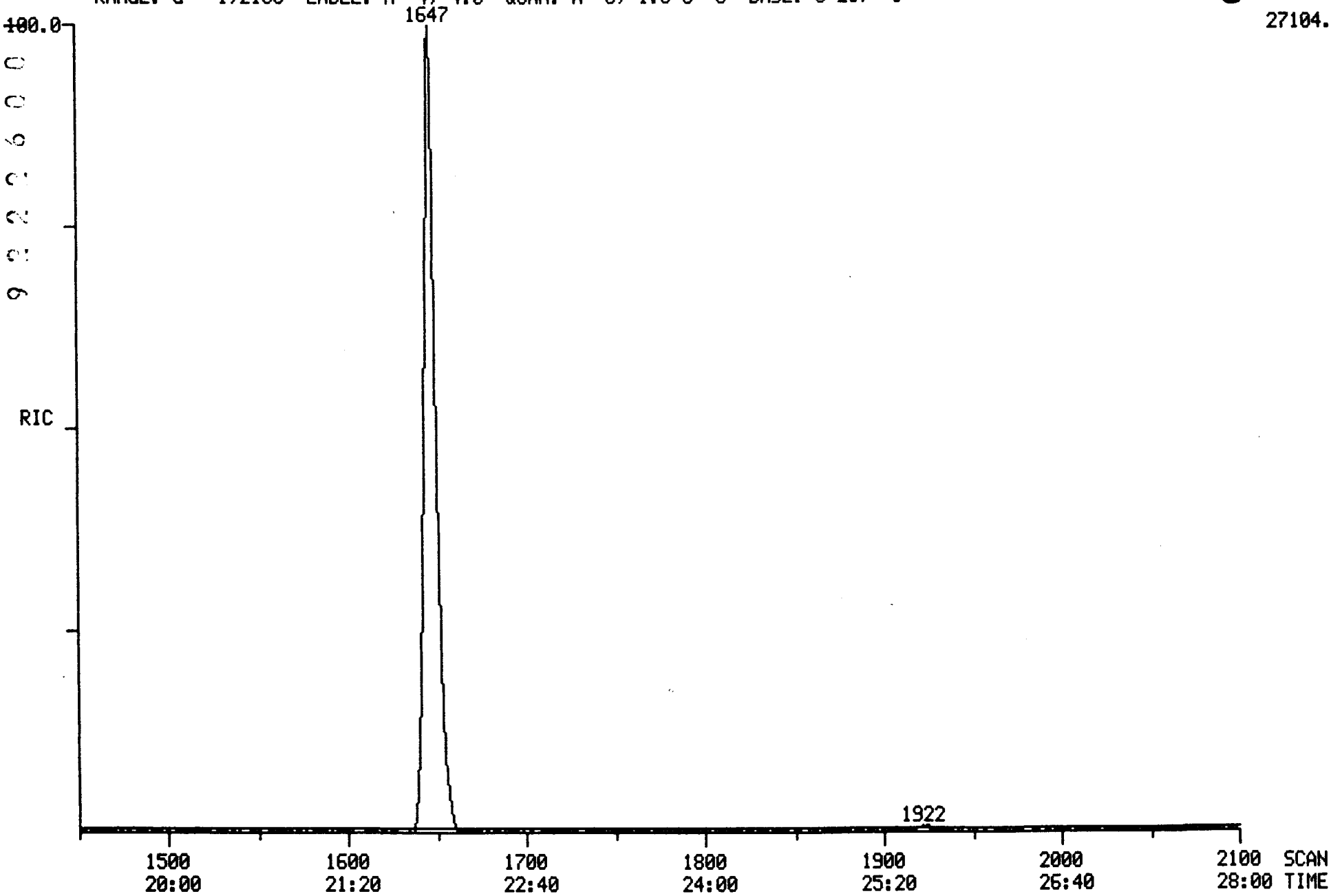
RIC
04/02/91 14:37:00
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC08 #1 SCANS 80 TO 1500
CALI: B0402LC08 #3

000543



RIC DATA: B0402LC08 #1 SCANS 1450 TO 2100
04/02/91 14:37:00 CALI: B0402LC08 #3
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



000554

4/2/91 14:37:43 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 14:37:00 + 0:01
Sample: 90910-R, 5.0G/ 5ML H2O+SUR+INT
Conds.: 90903-R, 5.0G/ 5ML H2O+SUR+INT
Formula:
Submitted by:

Run 0:B0402LC08
Free sectors: 5084
Instrument: 5100
Analyst: LC

Acquiring
Scan: 1 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 31 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.200
Samp int (ms): 0.200

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

000545

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

4/2/91 15:05:45
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	8.3	1680.0	0.5	23424.	11.	14.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 15:07:04
DATA FILE: B0402LC08
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	4	4	72	CLSRT1/CLSTC1
1	1	1	0	13	3	1	14	CLSRT2/CLSTC2
1	1	1	0	16	3	2	6	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 10 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT ><						------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	315	311	311	.	1	973	.	128	311	.	1
2	CS	2	-99	100	.	.	.	.	.	50	.	.	.
3	CS	3	-109	109	.	.	.	.	.	94	.	.	.
4	CS	4	-101	102	.	.	.	.	.	62	.	.	.
5	CS	5	-111	111	.	.	.	.	.	64	.	.	.
6	CS	6	178	177	177	.	1	989	.	84	177	.	1
7	CS	7	154	153	153	.	2	930	.	43	154	1	1
8	CS	8	-157	156	.	.	.	.	.	76	.	.	.
9	CS	9	-145	145	.	.	.	.	.	96	.	.	.
10	CS	10	-230	227	.	.	.	.	.	63	.	.	.
11	CS	12	-331	326	.	.	.	.	.	83	325	.	1
12	CS	13	-343	338	337	-1	2	824	.	97	334	-3	2
13	CS	14	-117	117	.	.	.	.	.	101	.	.	.
14	CS	15	-195	193	.	.	.	.	.	96	.	.	.
15	CS	16	-288	284	.	.	.	.	.	96	.	.	.
16	CS	17	478	469	469	.	1	996	.	114	468	-1	1
17	CS	18	-408	401	.	.	.	.	.	62	.	.	.
18	CS	19	299	294	294	.	1	880	.	72	295	1	1
19	CS	20	-363	357	.	.	.	.	.	117	.	.	.
20	CS	21	-240	236	.	.	.	.	.	43	232	.	2
21	CS	22	-640	627	.	.	.	.	.	83	.	.	.
22	CS	23	-564	553	.	.	.	.	.	63	.	.	.
23	CS	24	-756	741	.	.	.	.	.	75	.	.	.
24	CS	25	-515	505	.	.	.	.	.	130	504	.	1
25	CS	27	-395	388	.	.	.	.	.	78	.	.	.
26	CS	28	-743	728	.	.	.	.	.	106	.	.	.
27	CS	29	396	389	389	.	1	973	.	65	389	.	1
28	CS	43	-1503	1471	.	.	.	.	.	173	.	.	.
29	CS	30	1309	1305	1305	.	1	995	.	117	1305	.	1
30	CS	26	-1133	1128	.	.	.	.	.	129	.	.	.
31	CS	31	-1014	1008	.	.	.	.	.	97	1010	.	1
32	CS	32	-961	955	.	.	.	.	.	75	.	.	.
33	CS	33	-1140	1135	.	.	.	.	.	43	1135	.	1
34	CS	34	851	844	.	.	.	.	.	43	841	.	3
35	CS	35	-1014	1008	.	.	.	.	.	164	.	.	.
36	CS	36	-1724	1722	.	.	.	.	.	83	1718	.	2
37	CS	37	849	842	.	.	.	.	.	91	841	.	1
38	CS	38	-1316	1312	.	.	.	.	.	112	1312	.	1
39	CS	39	-1369	1365	.	.	.	.	.	106	.	.	.
40	CS	40	-1523	1520	.	.	.	.	.	104	.	.	.
41	CS	41	-1405	1402	.	.	.	.	.	106	1405	.	1
42	CS	42	-1512	1509	.	.	.	.	.	106	.	.	.
43	CS	44	1649	1647	1647	.	1	992	.	95	1647	.	1
44	CS	45	829	822	822	.	2	995	.	98	822	.	1

Quantitation Report File: B0402LC08

Data: B0402LC08.TI
04/02/91 14:37:00
Sample: 90910-R, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	311	4:09	1	1.000	A BB	10243.	50.000 UG/G	11.23
2	NOT	FOUND							
3	NOT	FOUND							
4	NOT	FOUND							
5	NOT	FOUND							
6	84	177	2:22	1	0.569	A BB	354.	~~1.133~~ UG/G	0.25
7	43	154	2:03	1	0.495	A BB	275.	2.347 UG/G	0.53
8	NOT	FOUND							
9	NOT	FOUND							
10	NOT	FOUND							
11	83	325	4:20	1	1.045	A BB	400.	~~0.642~~ UG/G	0.14
12	97	334	4:27	1	1.074	A*BB	237.	~~0.570~~ UG/G	0.13
13	NOT	FOUND							
14	NOT	FOUND							
15	NOT	FOUND							
16	114	468	6:14	16	1.000	A BB	49810.	50.000 UG/G	11.23
17	NOT	FOUND							
18	72	295	3:56	16	0.630	A BB	55.	~~1.164~~ UG/G	0.26
19	NOT	FOUND							
20	43	232	3:06	16	0.496	A*VB	112.	~~0.488~~ UG/G	0.11
21	NOT	FOUND							
22	NOT	FOUND							
23	NOT	FOUND							
24	130	504	6:43	16	1.077	A BB	20.	~~0.053~~ UG/G	0.01
25	NOT	FOUND							
26	NOT	FOUND							
27	65	389	5:11	16	0.831	A BB	15414.	99.711 %	22.39
28	NOT	FOUND							
29	117	1305	17:24	29	1.000	A BB	56938.	50.000 UG/G	11.23
30	NOT	FOUND							
31	97	1010	13:28	29	0.774	A BB	23.	~~0.053~~ UG/G	0.01
32	NOT	FOUND							
33	43	1135	15:08	29	0.870	A BB	224.	~~0.488~~ UG/G	0.11
34	43	841	11:13	29	0.644	A*BB	129.	~~0.263~~ UG/G	0.06
35	NOT	FOUND							
36	83	1718	22:54	29	1.316	A*BB	165.	~~0.220~~ UG/G	0.05
37	91	841	11:13	29	0.644	A BB	167.	~~0.114~~ UG/G	0.03
38	112	1312	17:30	29	1.005	A BB	175.	~~0.163~~ UG/G	0.04
39	NOT	FOUND							
40	NOT	FOUND							
41	106	1405	18:44	29	1.077	A BB	31.	~~0.045~~ UG/G	0.01
42	NOT	FOUND							
43	95	1647	21:58	29	1.262	A BB	56496.	100.332 %	22.53
44	98	822	10:58	29	0.630	A BB	57192.	87.743 %	19.70

Quantitation Report File: B0402LC08A

Data: B0402LC08.TI
04/02/91 14:37:00
Sample: 90910-R, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Instrument: 5100
Analyst: LC

Weight: 0.004
Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	PENTANE (ACN)(DOT)
2	BENZENE, FLUORO-

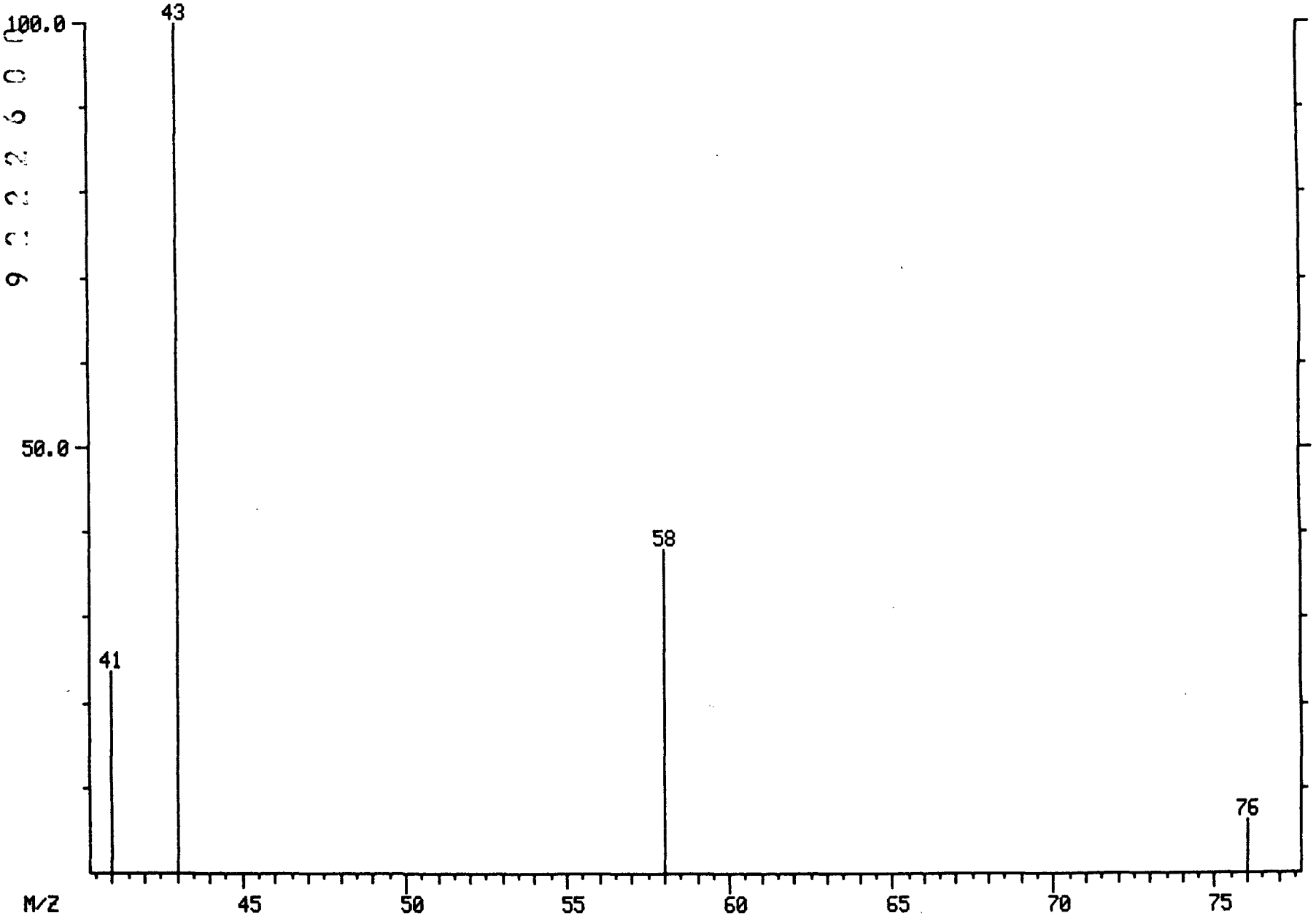
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	120	1:36	2	0.272	A BB	2941.	~~1.152~~	1.71
2	RIC	441	5:53	2	1.000	A BB	168948.	66.200	98.29

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/02/91 14:37:00 + 2:03
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 #154
CALI: B0402LC08 #3

BASE M/Z: 43
RIC: 106.

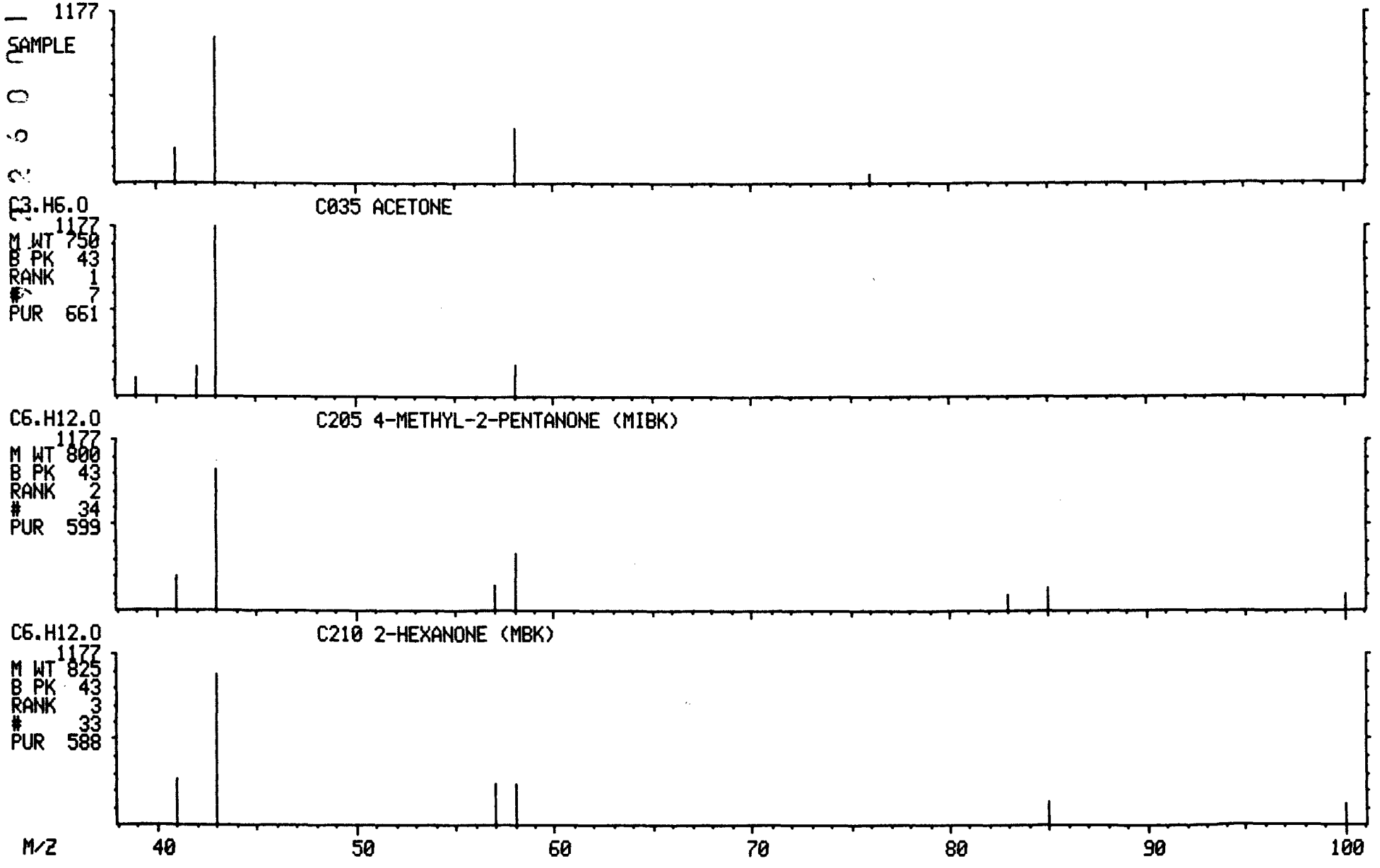


003552

LIBRARY SEARCH
04/02/91 14:37:00 + 2:03
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 # 154
CALI: B0402LC08 # 3

BASE M/Z: 43
RIC: 105.

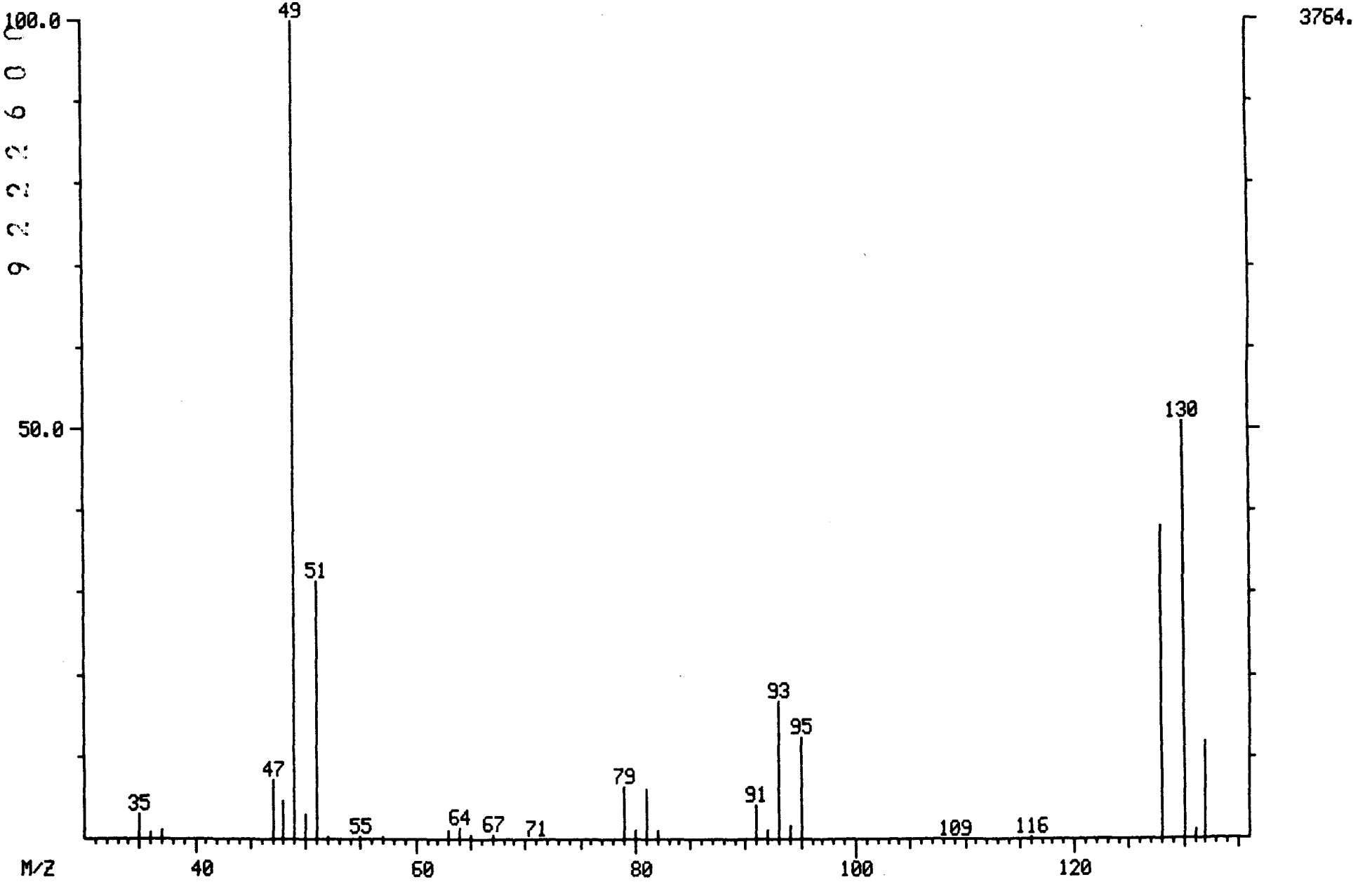


C00553

MASS SPECTRUM
04/02/91 14:37:00 + 4:09
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 #311
CALI: B0402LC08 #3

BASE M/Z: 49
RIC: 11616.



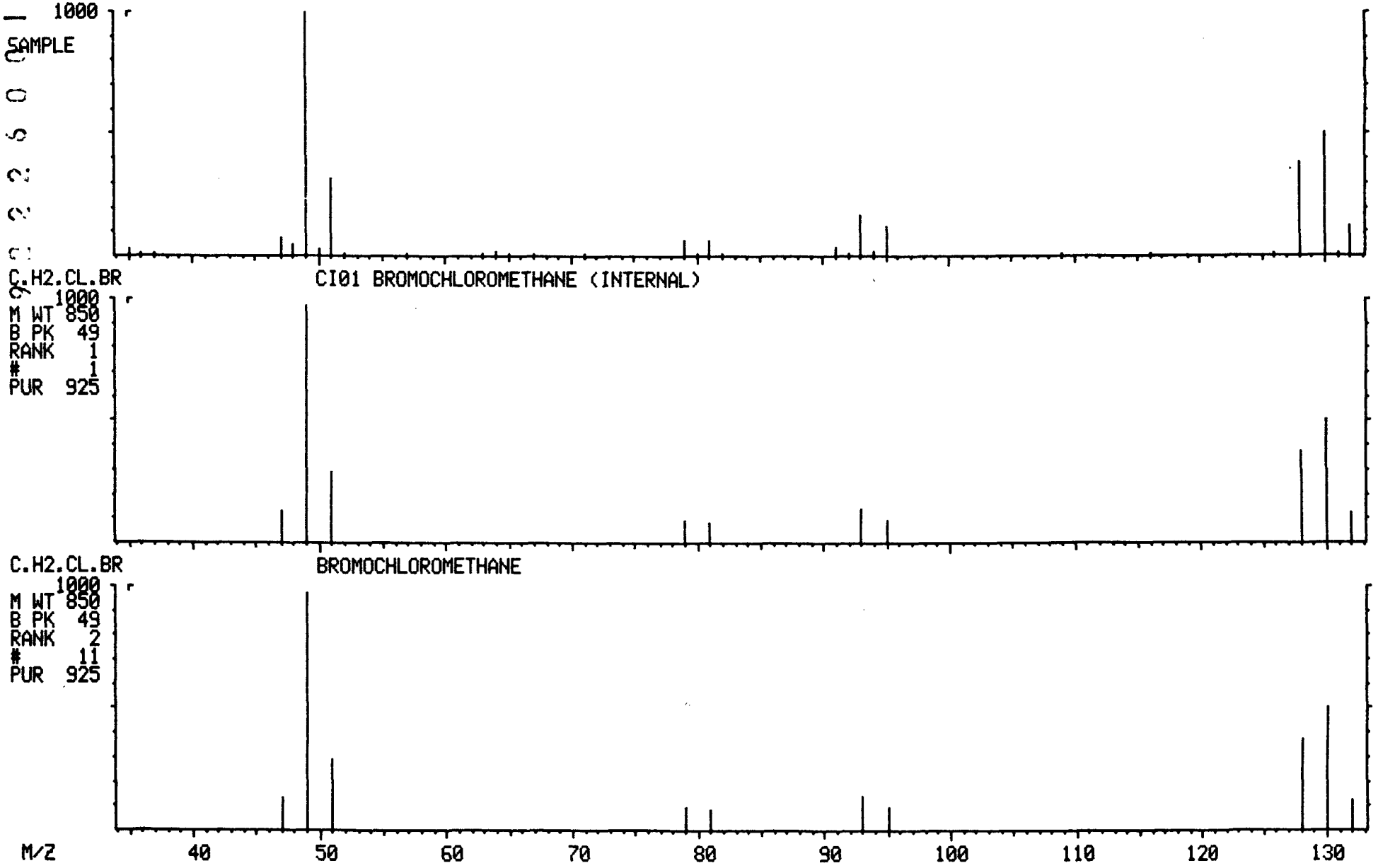
9222600120
00054

LIBRARY SEARCH
04/02/91 14:37:00 + 4:09
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 # 311
CALI: B0402LC08 # 3

BASE M/Z: 49
RIC: 11615.

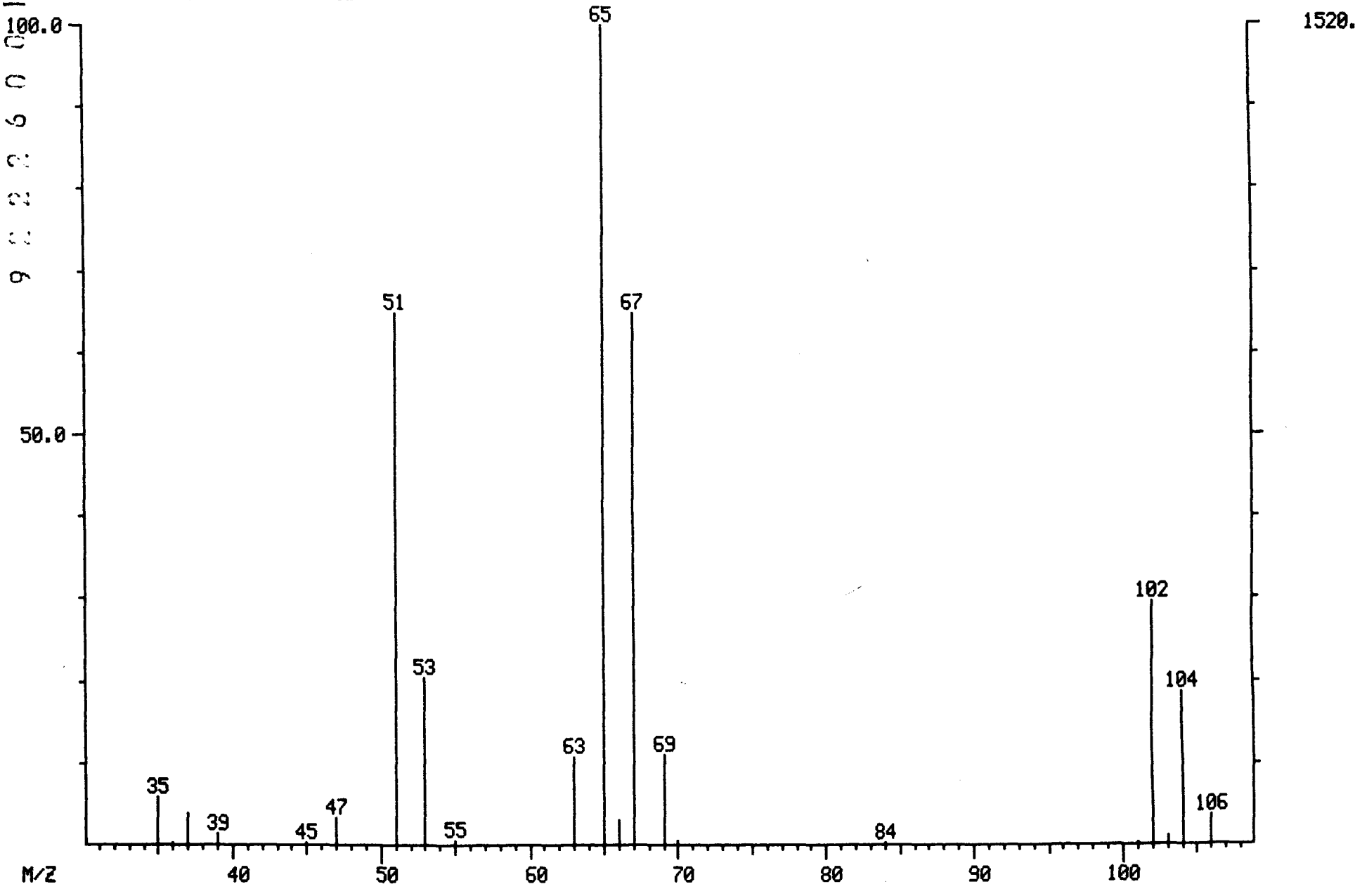
003555



MASS SPECTRUM
04/02/91 14:37:00 + 5:11
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 #389
CALI: B0402LC08 #3

BASE M/Z: 65
RIC: 5240.



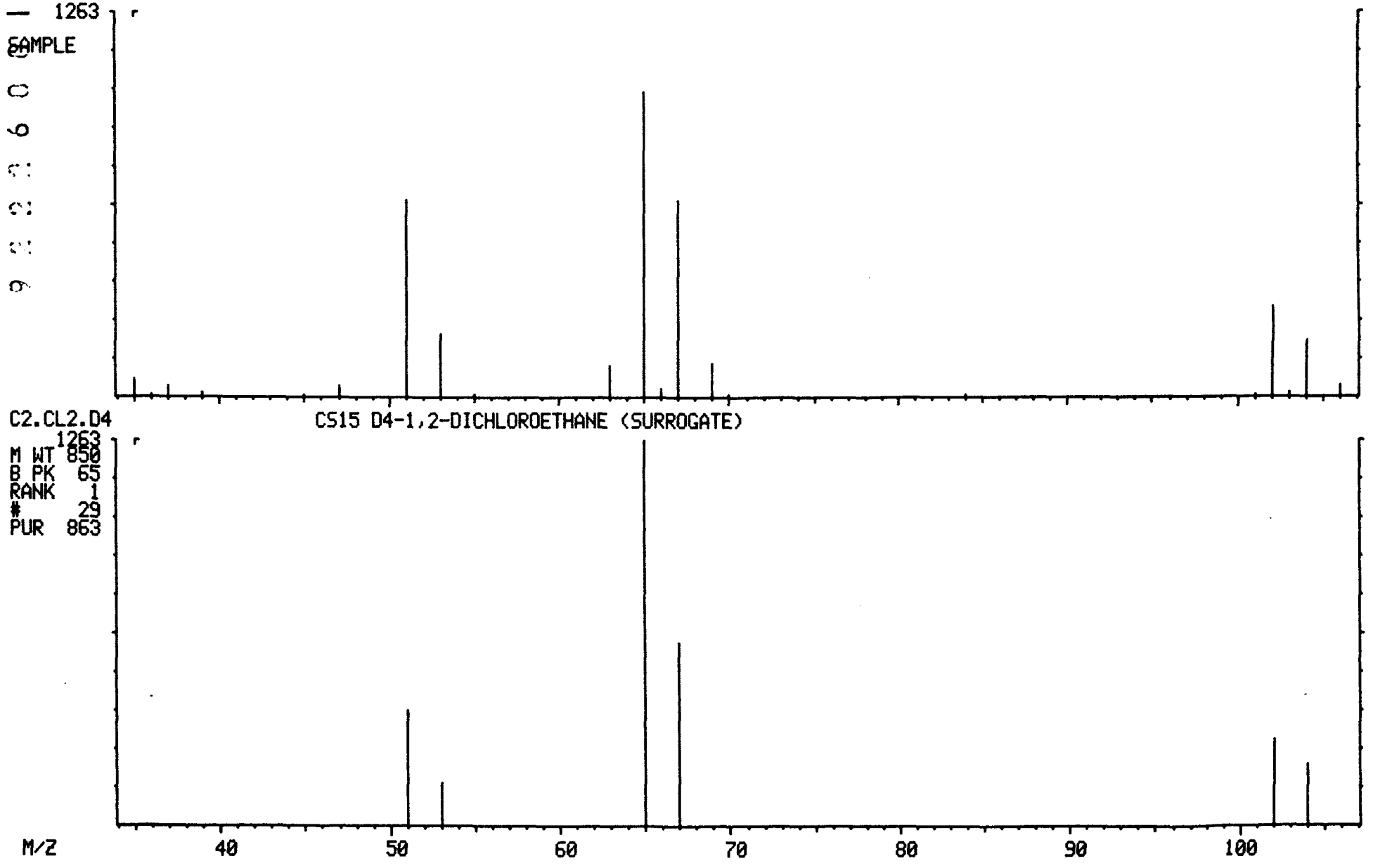
000559

LIBRARY SEARCH
04/02/91 14:37:00 + 5:11
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 # 389
CALI: B0402LC08 # 3

BASE M/Z: 65
RIC: 5239.

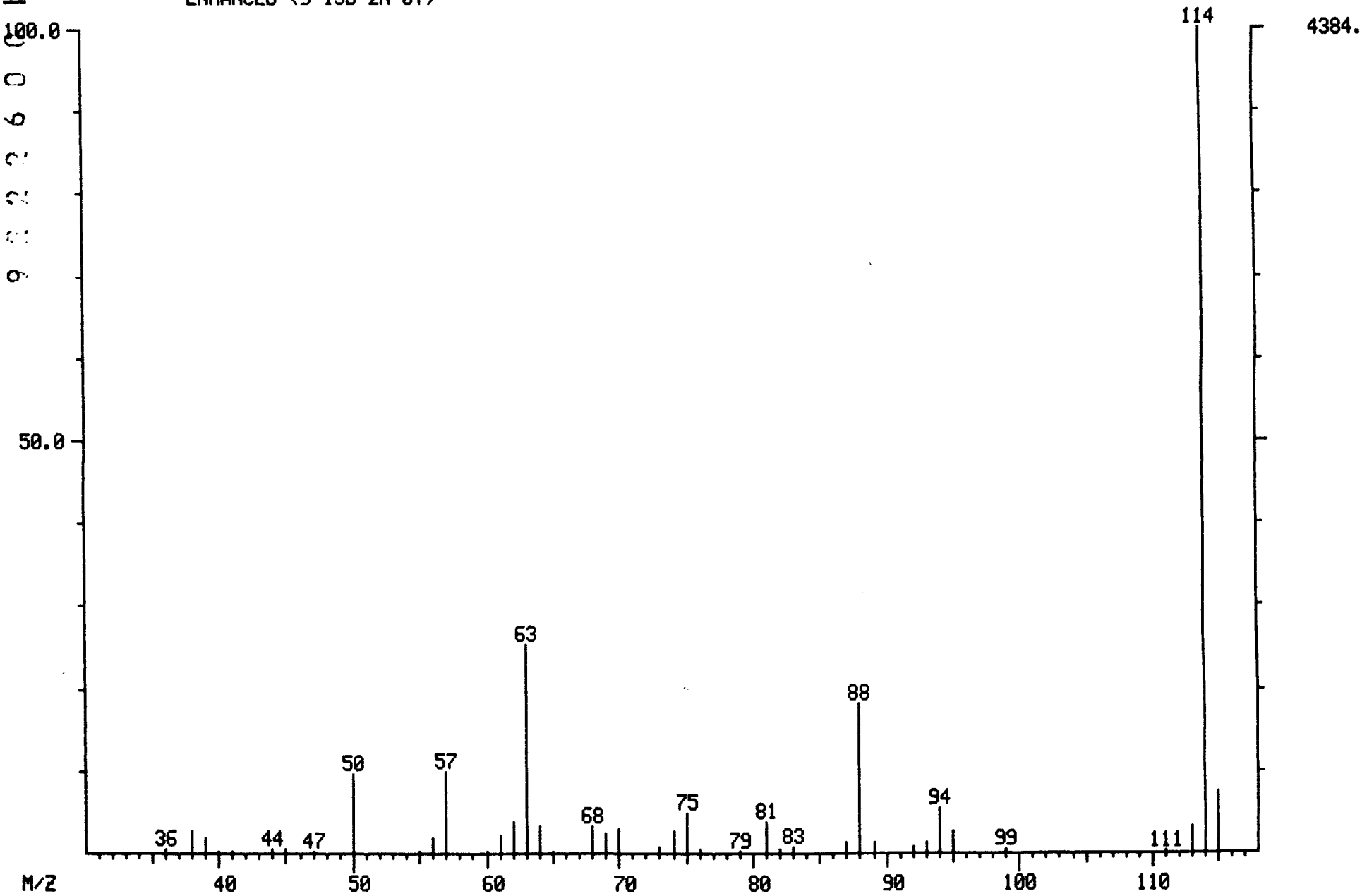
000557



MASS SPECTRUM
04/02/91 14:37:00 + 6:14
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 #468
CALI: B0402LC08 #3

BASE M/Z: 114
RIC: 10192.

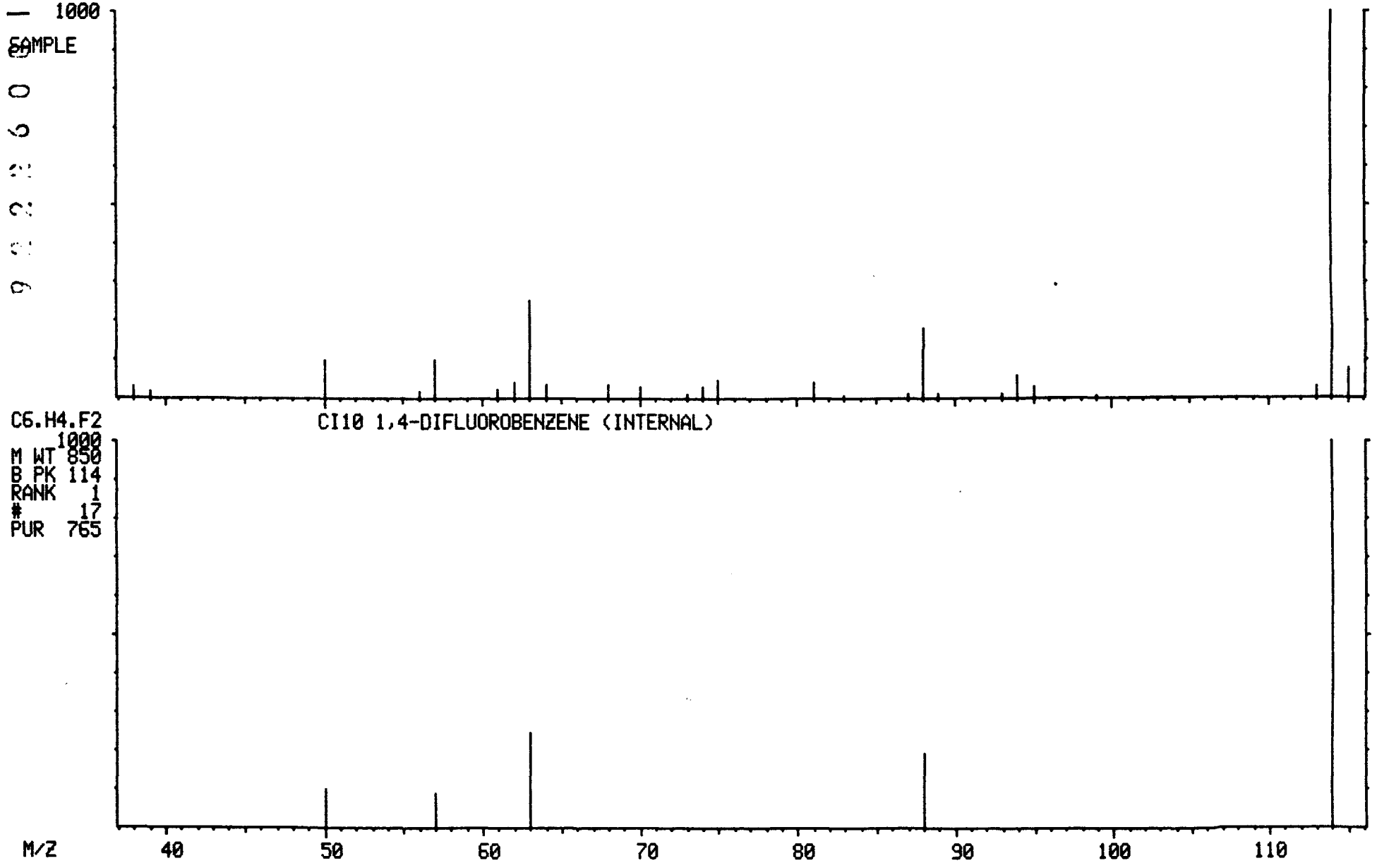


00558

LIBRARY SEARCH
04/02/91 14:37:00 + 6:14
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 # 468
CALI: B0402LC08 # 3

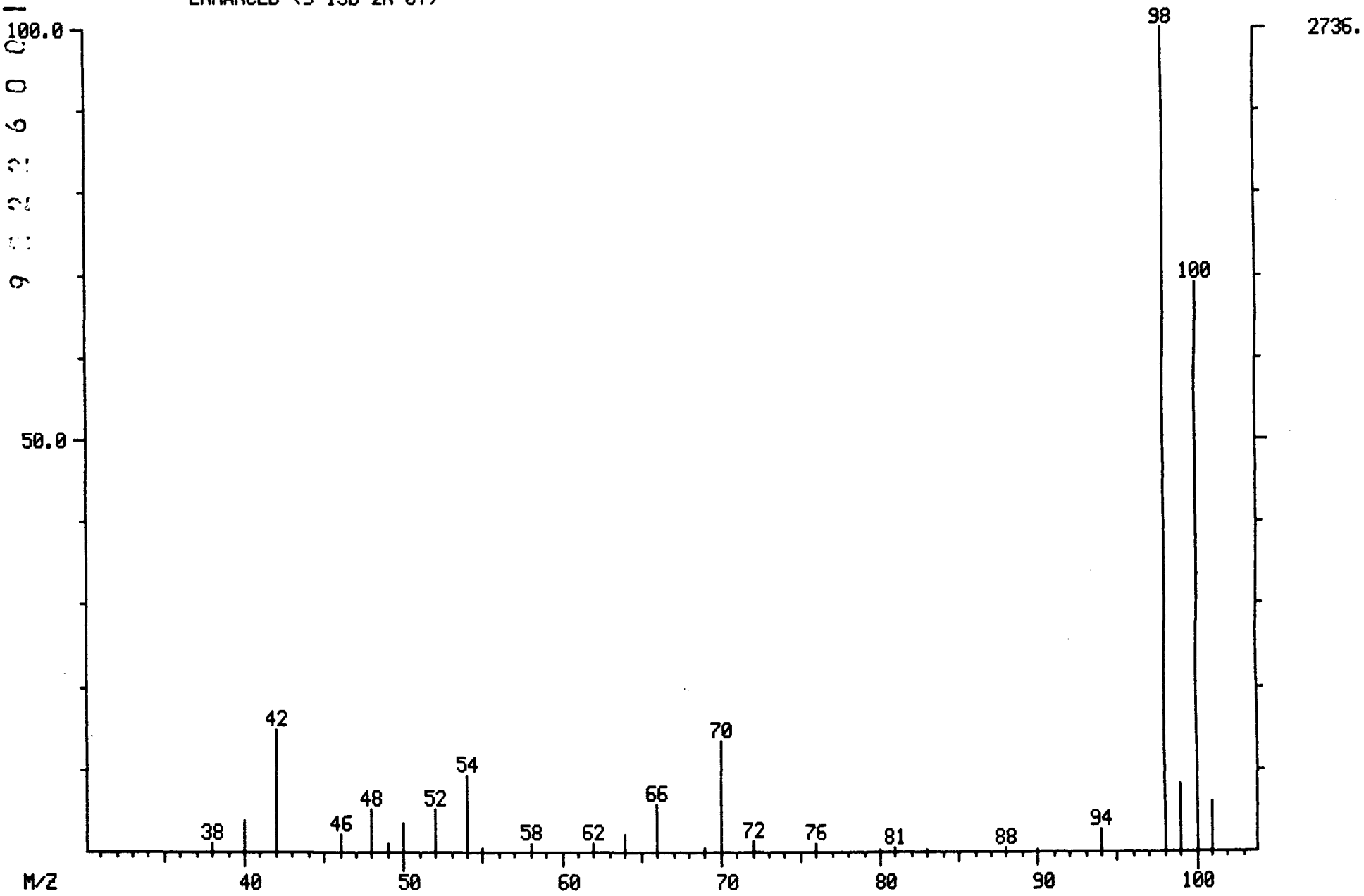
BASE M/Z: 114
RIC: 9807.



MASS SPECTRUM
04/02/91 14:37:00 + 10:58
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 #822
CALI: B0402LC08 #3

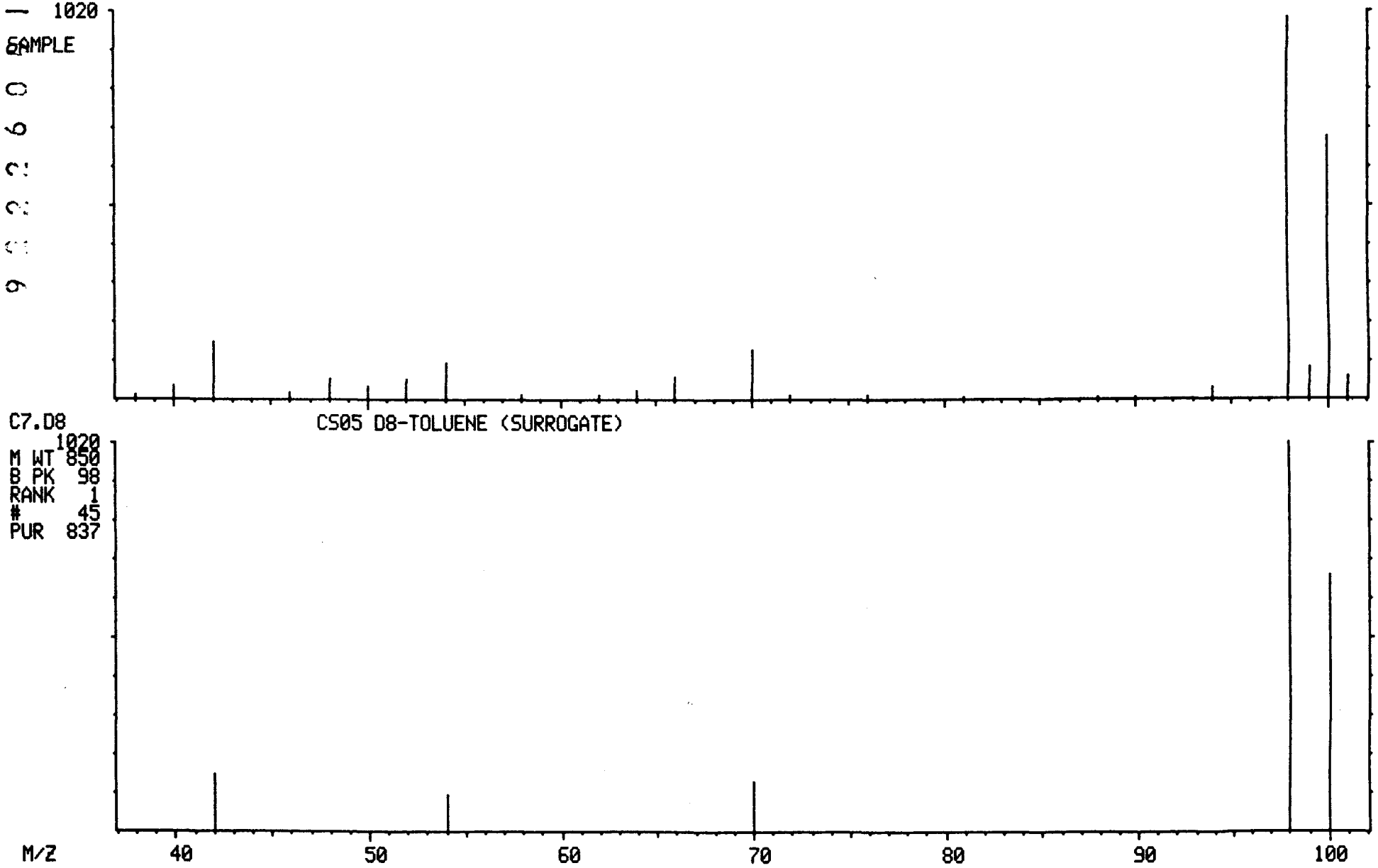
BASE M/Z: 98
RIC: 7200.



LIBRARY SEARCH
04/02/91 14:37:00 + 10:58
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 # 822
CALI: B0402LC08 # 3

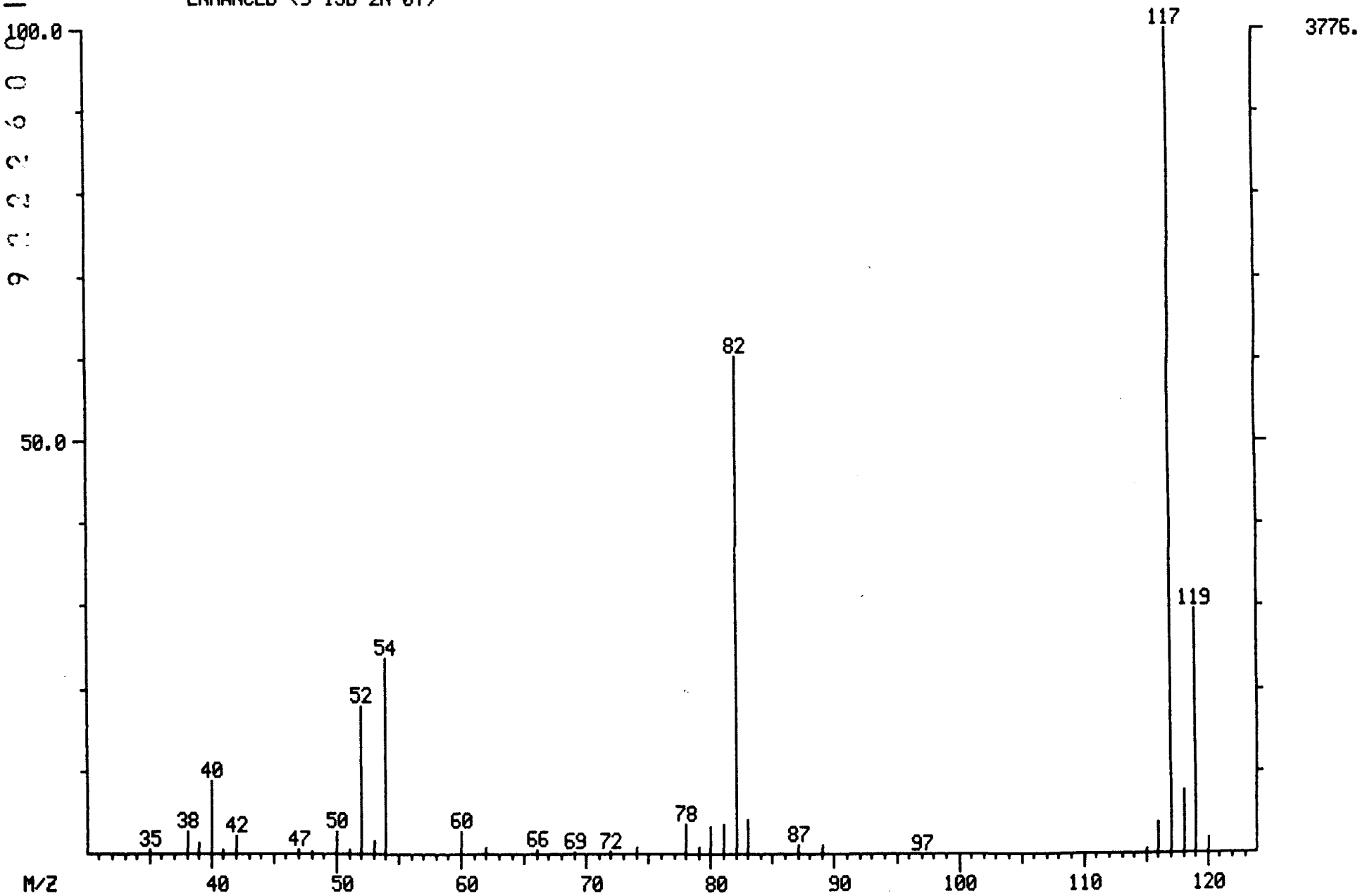
BASE M/Z: 98
RIC: 7111.



MASS SPECTRUM
04/02/91 14:37:00 + 17:24
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 #1305
CALI: B0402LC08 #3

BASE M/Z: 117
RIC: 11040.



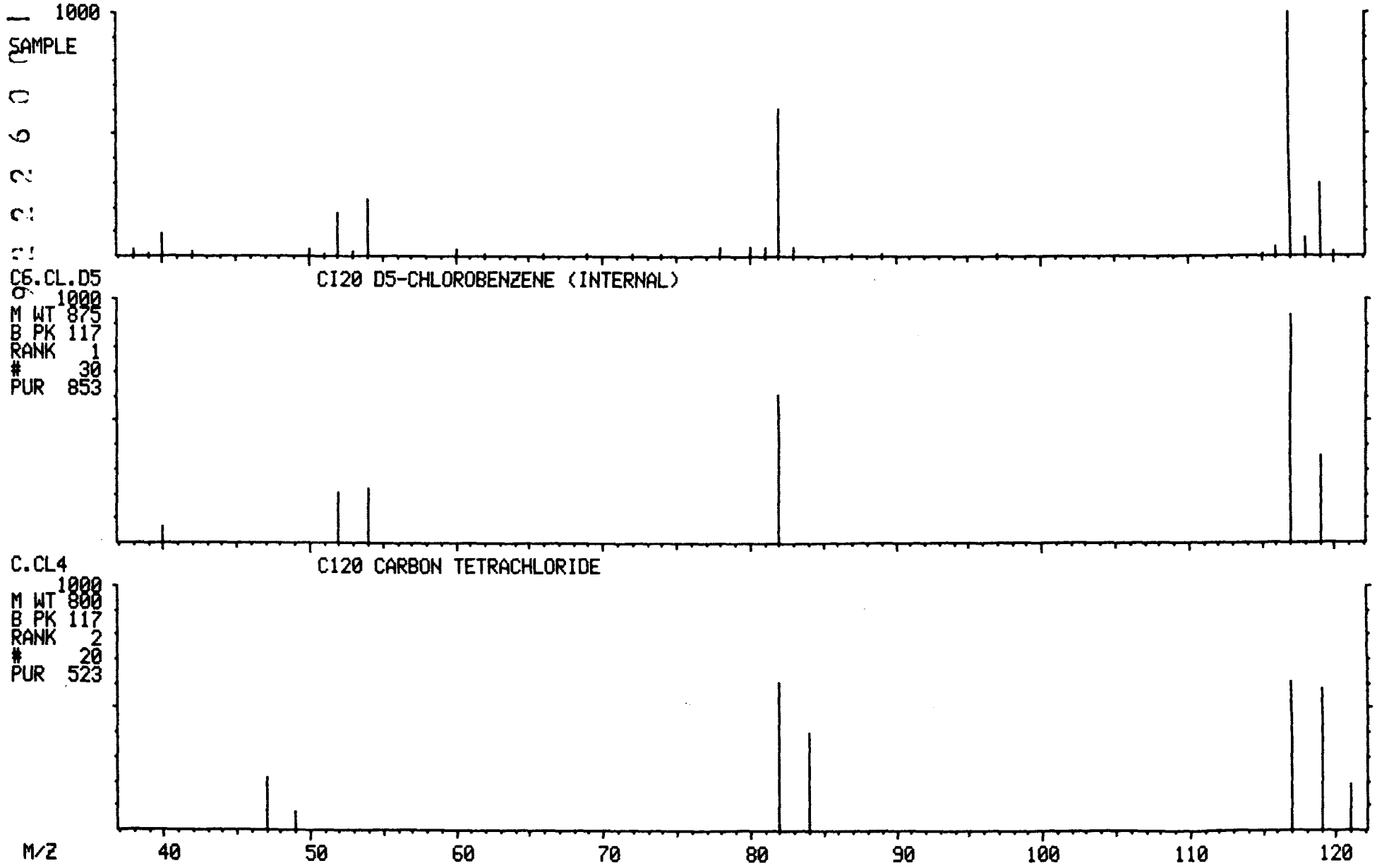
005562

LIBRARY SEARCH
04/02/91 14:37:00 + 17:24
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 #1305
CALI: B0402LC08 # 3

BASE M/Z: 117
RIC: 10927.

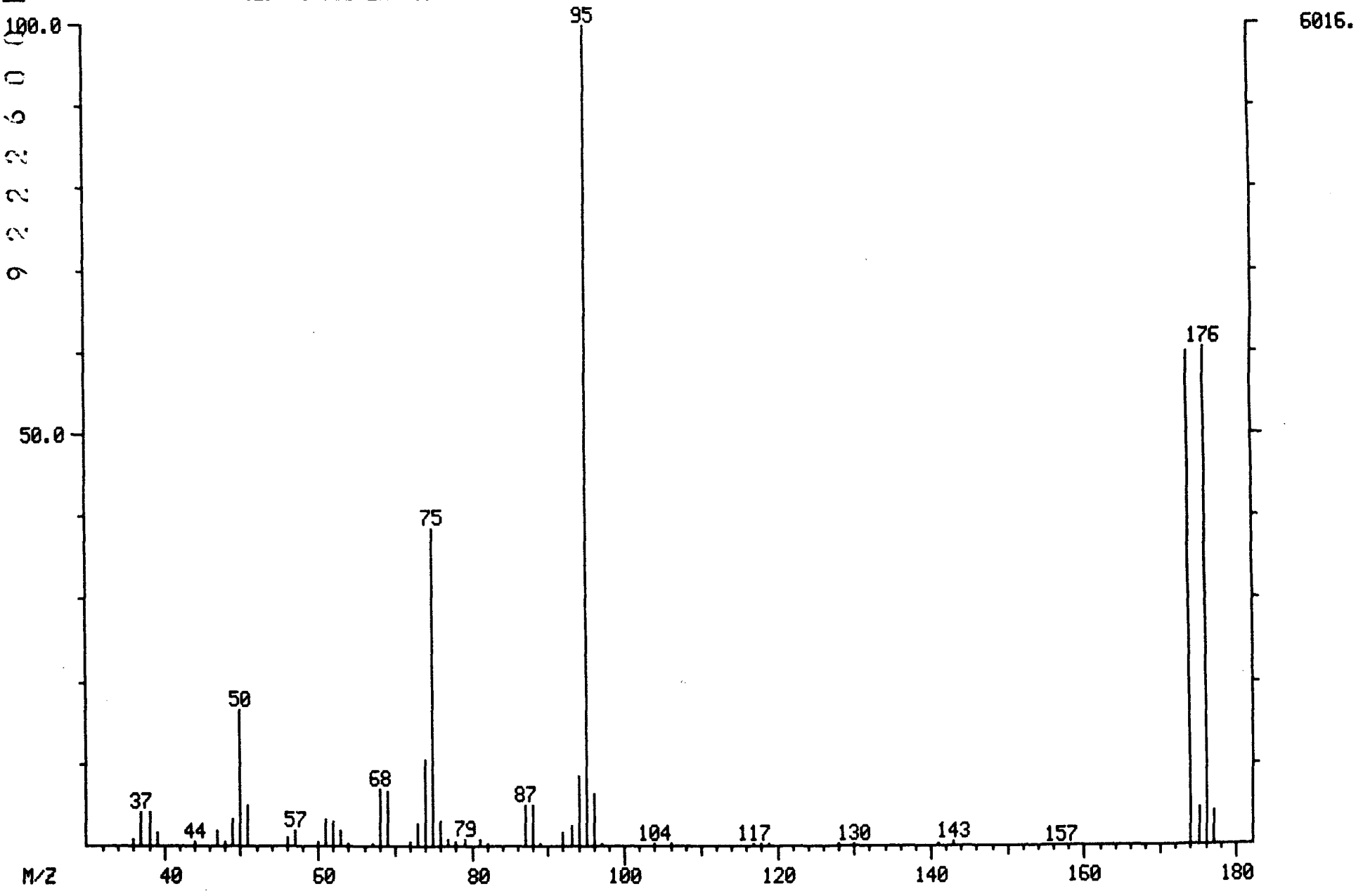
000563



MASS SPECTRUM
04/02/91 14:37:00 + 21:58
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 #1647
CALI: B0402LC08 #3

BASE M/Z: 95
RIC: 23200.



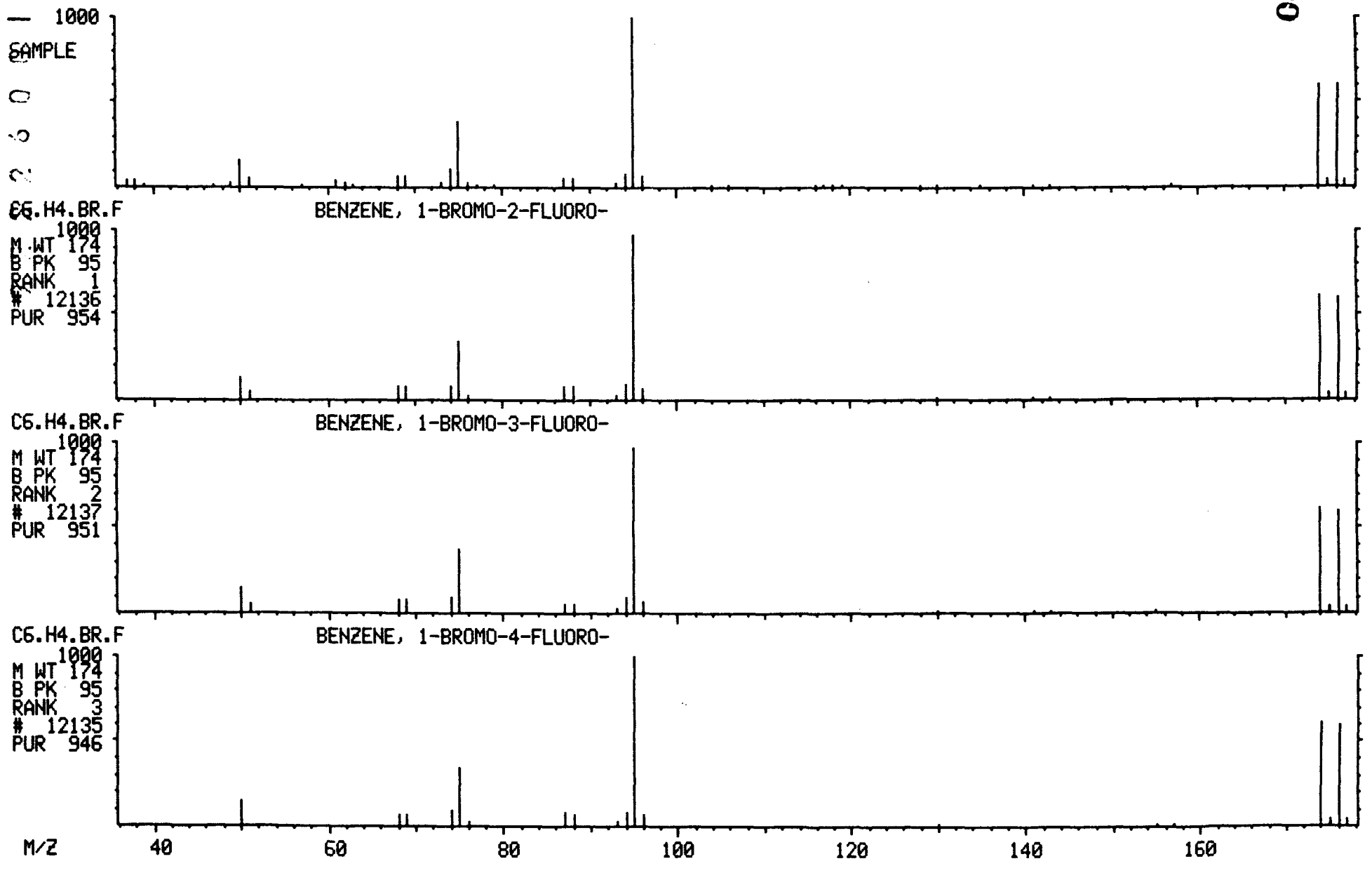
000564

LIBRARY SEARCH
04/02/91 14:37:00 + 21:58
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 #1647
CALI: B0402LC08 # 3

BASE M/Z: 95
RIC: 22687.

55500

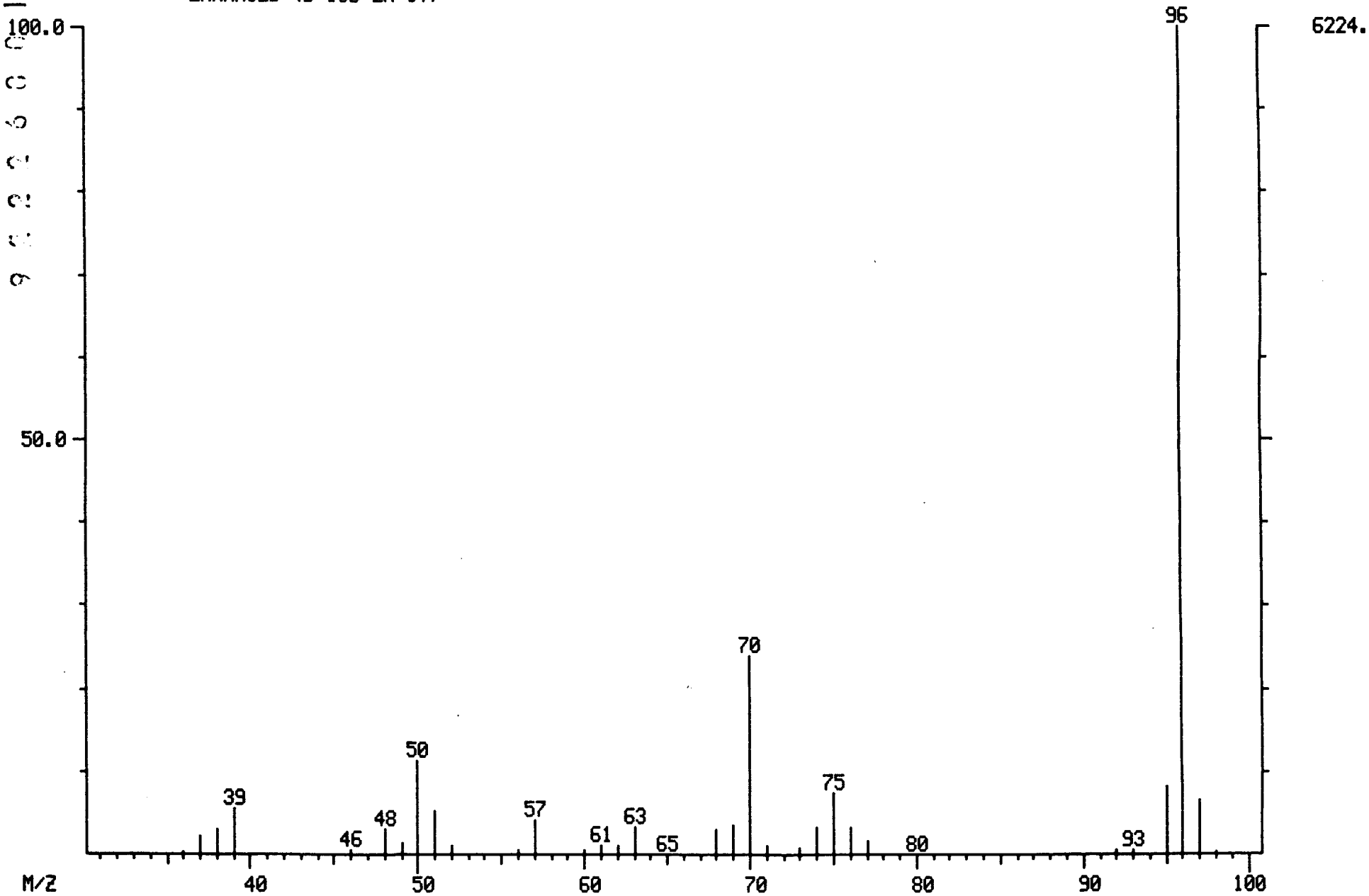


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/02/91 14:37:00 + 5:52
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 37 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 #440
CALI: B0402LC08 #3

BASE M/Z: 96
RIC: 13104.

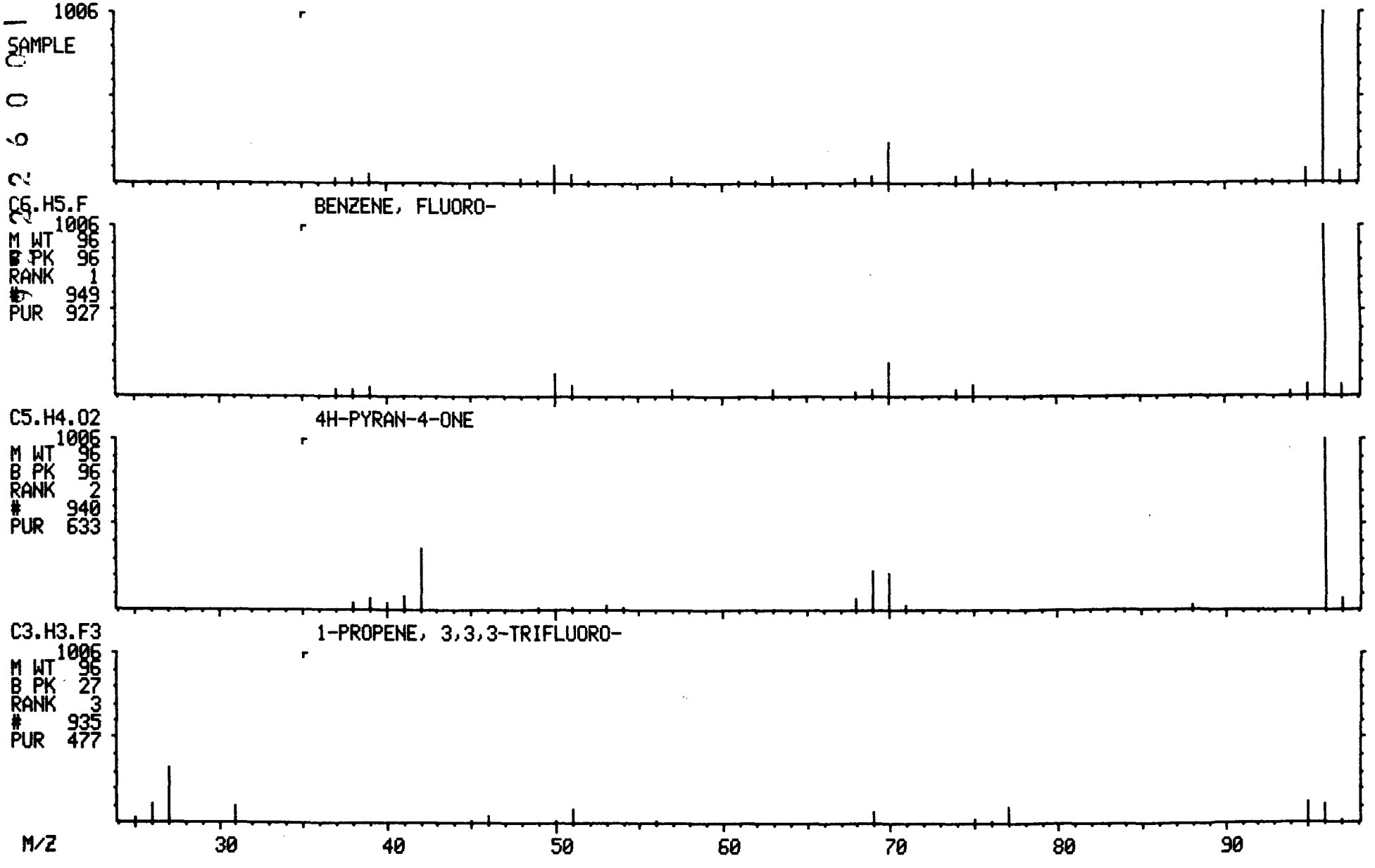


000547

LIBRARY SEARCH
04/02/91 14:37:00 + 5:52
SAMPLE: 90910-R, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC08 # 440
CALI: B0402LC08 # 3

BASE M/Z: 96
RIC: 12815.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190911

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0402LC07

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 31 Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	7	U
67-64-1	Acetone	22	
75-15-0	Carbon Disulfide	7	U
75-35-4	1,1-Dichloroethene	7	U
75-34-3	1,1-Dichloroethane	7	U
540-59-0	1,2-Dichloroethene (total)	7	U
67-66-3	Chloroform	7	U
107-06-2	1,2-Dichloroethane	7	U
78-93-3	2-Butanone	11	J
71-55-6	1,1,1-Trichloroethane	7	U
56-23-5	Carbon Tetrachloride	7	U
108-05-4	Vinyl Acetate	14	U
75-27-4	Bromodichloromethane	7	U
78-87-5	1,2-Dichloropropane	7	U
10061-01-5	cis-1,3-Dichloropropene	7	U
79-01-6	Trichloroethene	7	U
124-48-1	Dibromochloromethane	7	U
79-00-5	1,1,2-Trichloroethane	7	U
71-43-2	Benzene	7	U
10061-02-6	trans-1,3-Dichloropropene	7	U
75-25-2	Bromoform	7	U
108-10-1	4-Methyl-2-Pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	7	U
79-34-5	1,1,2,2-Tetrachloroethane	7	U
108-88-3	Toluene	29	
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	7	U
100-42-5	Styrene	7	U
1330-20-7	Xylene (total)	7	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X113

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190911

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0402LC07

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 31 Date Analyzed: 04/02/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

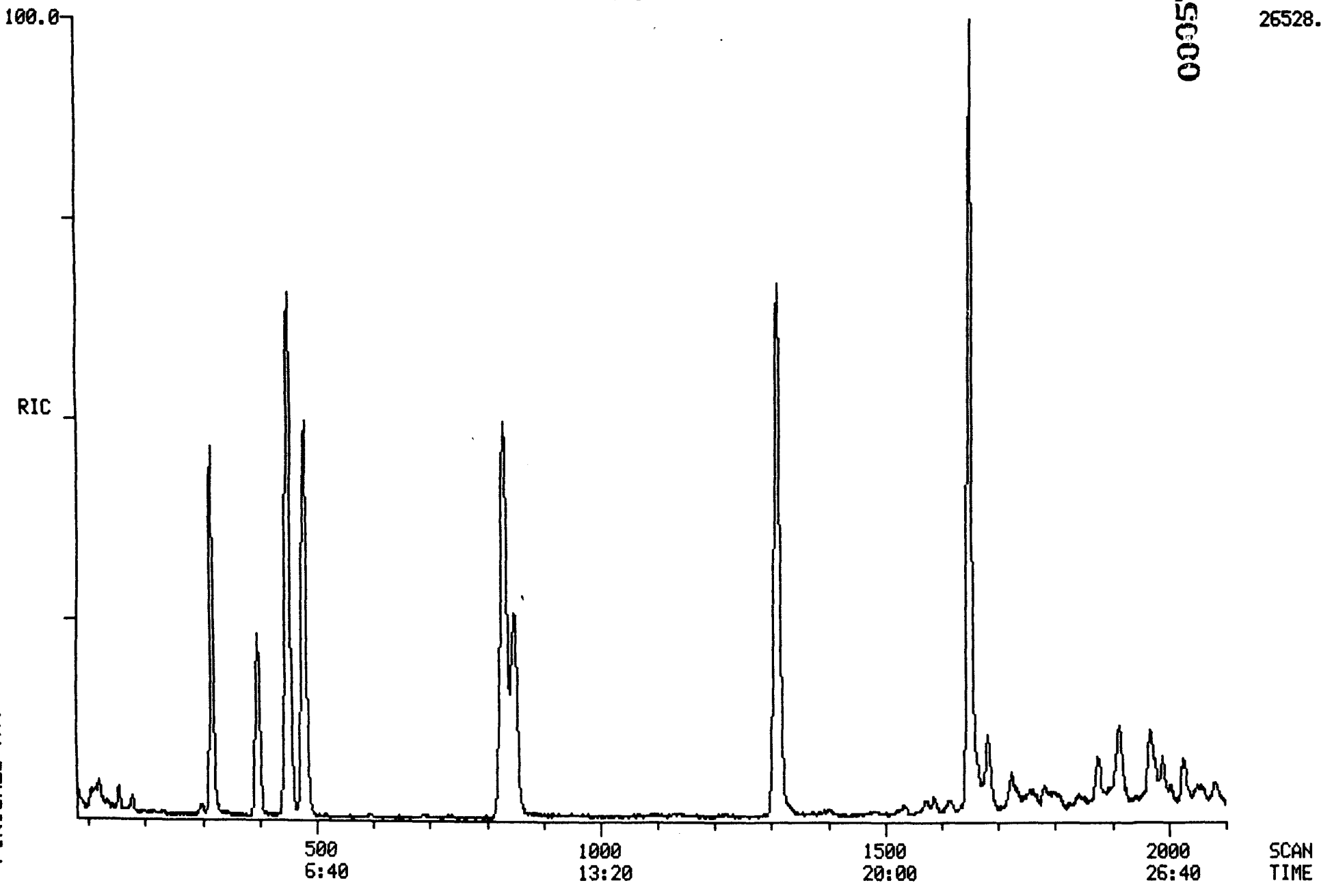
000570

X113

RIC
04/02/91 13:58:00
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC07 #1
CALI: B0402LC07 #3

SCANS 80 TO 2100



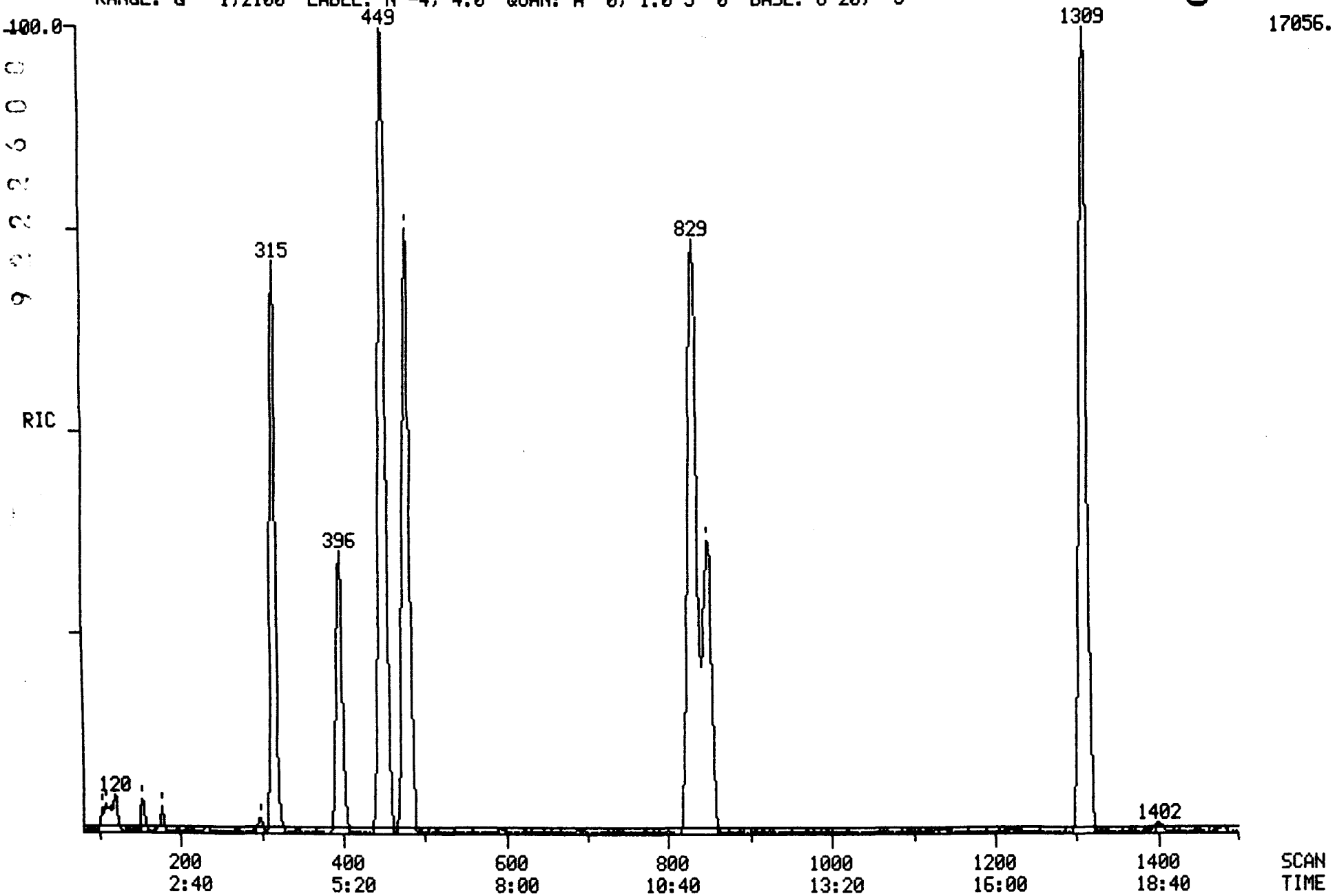
TCA FINISHED, 12 FOUND
FINISHED AT: 4/02/91 18:05:55

000571

RIC
04/02/91 13:58:00
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC07 #1 SCANS 80 TO 1500
CALI: B0402LC07 #3

000572



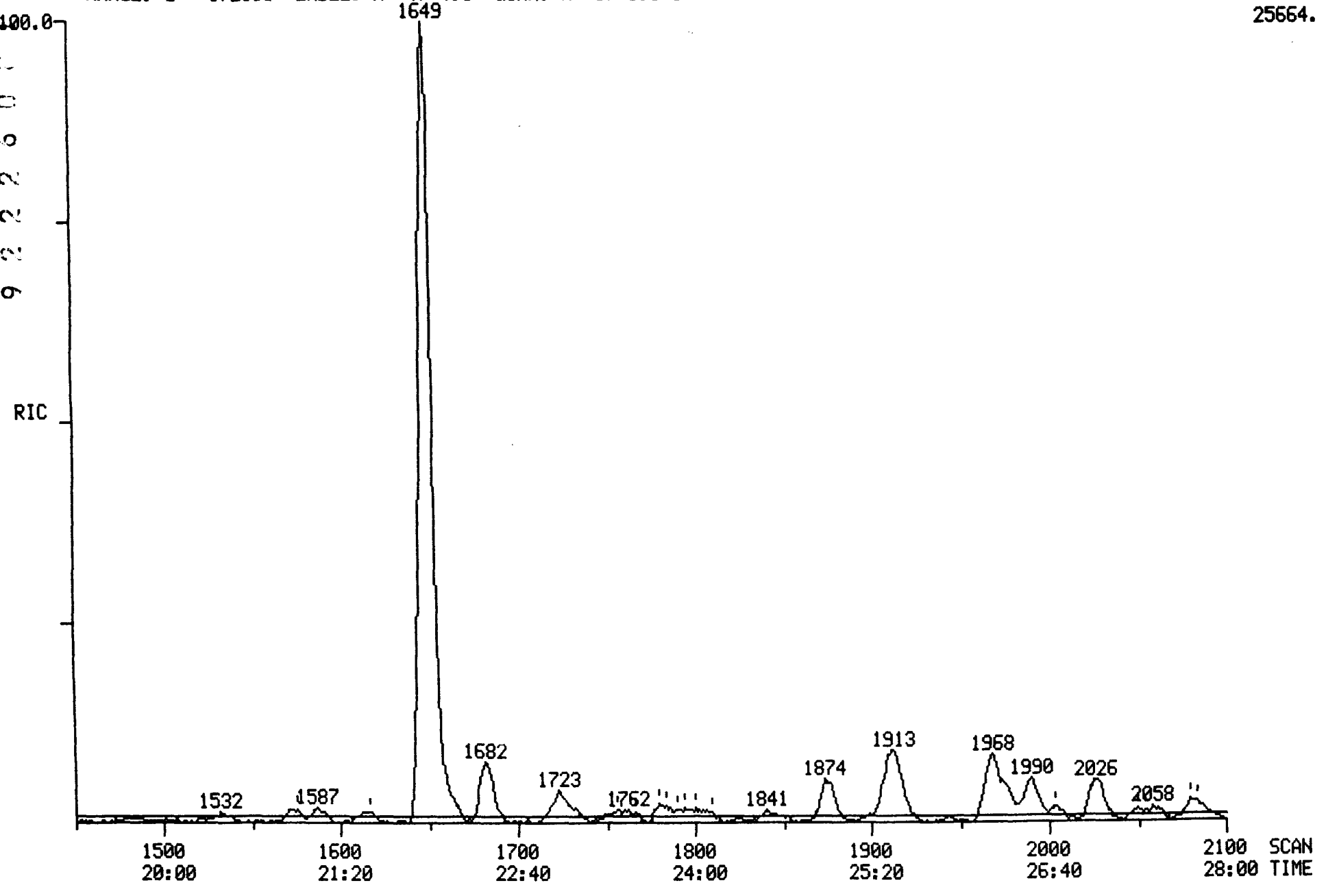
RIC
04/02/91 13:58:00
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC07 #1
CALI: B0402LC07 #3

SCANS 1450 TO 2100

000573

25664.



4/2/91 13:58:27 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 13:58:00 + 0:02
Sample: 90911, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0402LC07
Free sectors: 5438
Instrument: 5100
Analyst:

Acquiring
Scan: 2 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 30 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.200
Samp int (ms): 0.200

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

000574

4/2/91 14:26:29
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	13.4	1680.0	0.8	33775.	16.	20.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 14:54:10
DATA FILE: B0402LC07
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	2	8	CLSRT1/CLSTC1
1	1	1	0	13	3	1	52	CLSRT2/CLSTC2
1	1	1	0	16	5	2	244	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 11 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT >< ------ CHRO ------- >										
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	-322	315	315	.	1	971	.	128	315	.	1
2	CS	2	-98	99	.	.	.	.	.	50	.	.	.
3	CS	3	-108	109	.	.	.	.	.	94	.	.	.
4	CS	4	-100	101	.	.	.	.	.	62	.	.	.
5	CS	5	-110	111	.	.	.	.	.	64	110	.	1
6	CS	6	-180	178	178	.	1	976	.	84	178	.	1
7	CS	7	-155	154	154	.	2	958	.	43	154	.	1
8	CS	8	-158	157	.	.	.	.	.	76	156	.	1
9	CS	9	-146	145	.	.	.	.	.	96	.	.	.
10	CS	10	-234	230	.	.	.	.	.	63	.	.	.
11	CS	12	-339	331	.	.	.	.	.	83	332	.	1
12	CS	13	-351	343	.	.	.	.	.	97	.	.	.
13	CS	14	-117	117	.	.	.	.	.	101	116	.	1
14	CS	15	-198	195	.	.	.	.	.	96	.	.	.
15	CS	16	-294	288	.	.	.	.	.	96	.	.	.
16	CS	17	-492	478	478	.	1	996	.	114	478	.	1
17	CS	18	-419	408	.	.	.	.	.	62	.	.	.
18	CS	19	-305	299	299	.	1	896	.	72	299	.	1
19	CS	20	-372	363	.	.	.	.	.	117	.	.	.
20	CS	21	-244	240	.	.	.	.	.	43	241	.	2
21	CS	22	-662	640	.	.	.	.	.	83	.	.	.
22	CS	23	-582	564	.	.	.	.	.	63	.	.	.
23	CS	24	-783	756	.	.	.	.	.	75	.	.	.
24	CS	25	-531	515	.	.	.	.	.	130	.	.	.
25	CS	27	-406	395	.	.	.	.	.	78	.	.	.
26	CS	28	-769	743	.	.	.	.	.	106	.	.	.
27	CS	29	-407	396	396	.	1	974	.	65	396	.	1
28	CS	43	-1563	1503	.	.	.	.	.	173	.	.	.
29	CS	30	-1315	1309	1309	.	1	994	.	117	1309	.	1
30	CS	26	-1140	1133	.	.	.	.	.	129	.	.	.
31	CS	31	-1022	1014	.	.	.	.	.	97	1014	.	1
32	CS	32	-970	961	.	.	.	.	.	75	.	.	.
33	CS	33	-1147	1140	.	.	.	.	.	43	1135	.	1
34	CS	34	-858	848	851	3	1	864	.	43	851	.	1
35	CS	35	-1022	1014	.	.	.	.	.	164	.	.	.
36	CS	36	-1726	1724	.	.	.	.	.	83	1726	.	1
37	CS	37	-858	848	849	1	1	997	.	91	849	.	1
38	CS	38	-1322	1316	.	.	.	.	.	112	.	.	.
39	CS	39	-1374	1369	.	.	.	.	.	106	1370	.	1
40	CS	40	-1527	1523	.	.	.	.	.	104	1522	.	1
41	CS	41	-1410	1405	.	.	.	.	.	106	1403	.	1
42	CS	42	-1516	1512	.	.	.	.	.	106	.	.	.
43	CS	44	-1652	1649	1649	.	1	990	.	95	1649	.	1
44	CS	45	-842	832	829	-3	2	992	.	98	829	.	1

Quantitation Report File: B0402LC07

Data: B0402LC07.TI
04/02/91 13:58:00
Sample: 90911, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	315	4:12	1	1.000	A BB	10060.	50.000 UG/G	10.44
2	NOT	FOUND							
3	NOT	FOUND							
4	NOT	FOUND							
5	64	110	1:28	1	0.349	A BB	29.	~~0.284~~ UG/G	0.06
6	84	178	2:22	1	0.565	A BB	393.	~~1.280~~ UG/G	0.27
7	43	154	2:03	1	0.489	A BB	1760.	15.297 UG/G	3.19
8	76	156	2:05	1	0.495	A BB	185.	~~0.191~~ UG/G	0.04
9	NOT	FOUND							
10	NOT	FOUND							
11	83	332	4:26	1	1.054	A VB	306.	~~0.500~~ UG/G	0.10
12	NOT	FOUND							
13	101	116	1:33	1	0.368	A BB	97.	~~0.794~~ UG/G	0.17
14	NOT	FOUND							
15	NOT	FOUND							
16	114	478	6:22	16	1.000	A BB	49096.	50.000 UG/G	10.44
17	NOT	FOUND							
18	72	299	3:59	16	0.626	A BB	360.	7.727 UG/G	1.61
19	NOT	FOUND							
20	43	241	3:13	16	0.504	A*VB	85.	~~0.374~~ UG/G	0.08
21	NOT	FOUND							
22	NOT	FOUND							
23	NOT	FOUND							
24	NOT	FOUND							
25	NOT	FOUND							
26	NOT	FOUND							
27	65	396	5:17	16	0.828	A BB	14443.	94.789 %	19.79
28	NOT	FOUND							
29	117	1309	17:27	29	1.000	A BB	55448.	50.000 UG/G	10.44
30	NOT	FOUND							
31	97	1014	13:31	29	0.775	A BB	16.	~~0.038~~ UG/G	0.01
32	NOT	FOUND							
33	43	1135	15:08	29	0.867	A BB	76.	~~0.171~~ UG/G	0.04
34	43	851	11:21	29	0.650	A BB	328.	~~0.687~~ UG/G	0.14
35	NOT	FOUND							
36	83	1726	23:01	29	1.319	A BV	277.	~~0.380~~ UG/G	0.08
37	91	849	11:19	29	0.649	A BB	28539.	19.936 UG/G	4.16
38	NOT	FOUND							
39	106	1370	18:16	29	1.047	A BB	17.	~~0.031~~ UG/G	0.01
40	104	1522	20:18	29	1.163	A BB	16.	~~0.014~~ UG/G	0.00
41	106	1403	18:42	29	1.072	A BB	14.	~~0.021~~ UG/G	0.00
42	NOT	FOUND							
43	95	1649	21:59	29	1.260	A BB	56089.	102.285 %	21.35
44	98	829	11:03	29	0.633	A BB	53560.	84.378 %	17.61

Quantitation Report File: B0402LC07A

Data: B0402LC07.TI
04/02/91 13:58:00
Sample: 90911, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	ETHANE, 1-CHLORO-2-NITRO-
2	ETHANE, 1-CHLORO-2-NITRO-
3	PENTANE (ACN)(DOT)
4	BENZENE, FLUORO-
5	UNDECANE, 3-METHYL-

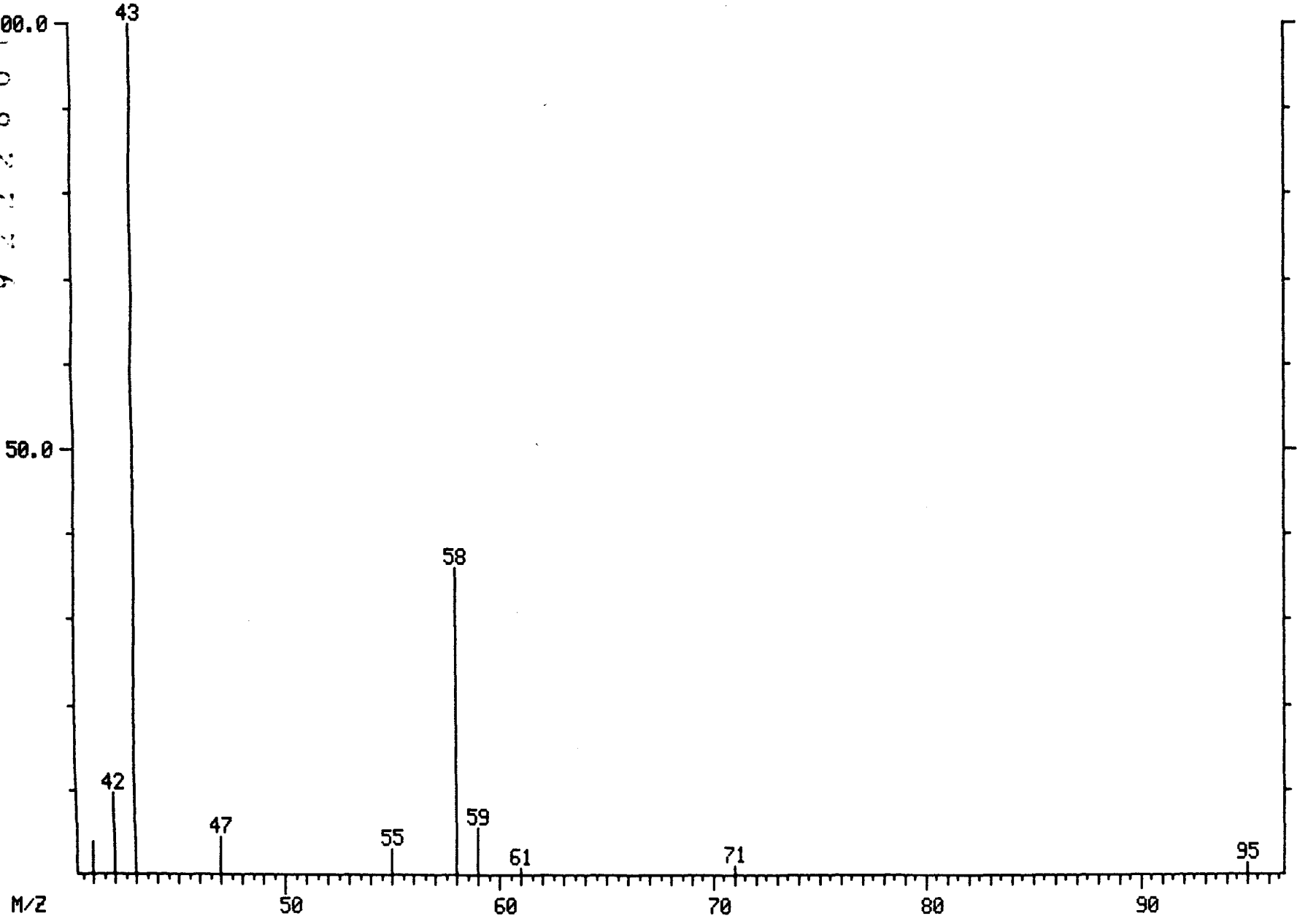
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	104	1:23	4	0.232	A BV	1379.	~~0.541~~	0.71
2	RIC	108	1:26	4	0.241	A VV	2660.	~~1.045~~	1.37
3	RIC	120	1:36	4	0.267	A BB	4887.	~~1.919~~	2.51
4	RIC	449	5:59	4	1.000	A BB	168566.	66.200	86.63
5	RIC	1682	22:26	4	3.746	A BB	17081.	6.708	8.78

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/02/91 13:58:00 + 2:03
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 #154
CALI: B0402LC07 #3

BASE M/Z: 43
RIC: 600.



361.

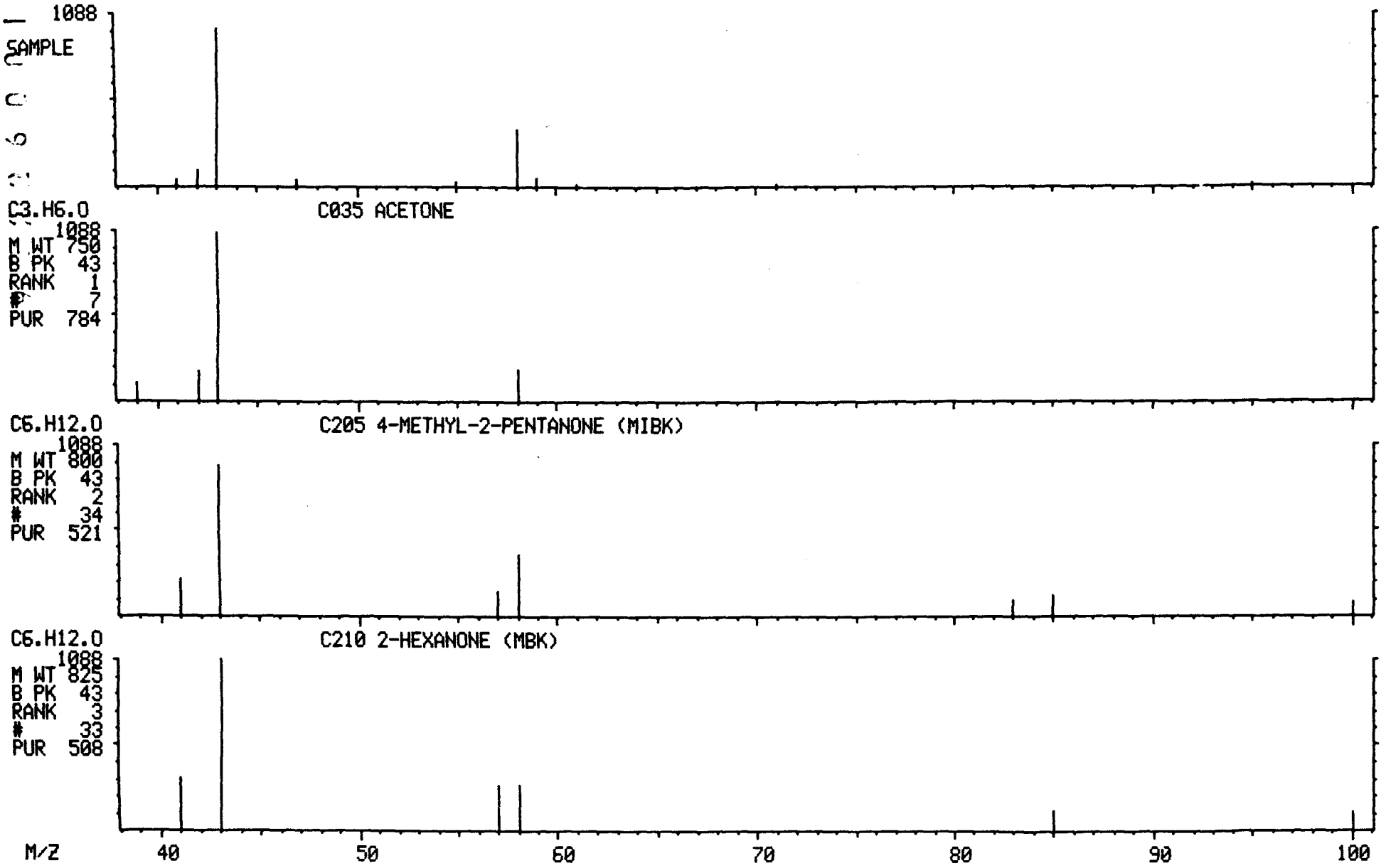
000551

LIBRARY SEARCH
04/02/91 13:58:00 + 2:03
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 # 154
CALI: B0402LC07 # 3

BASE M/Z: 43
RIC: 599.

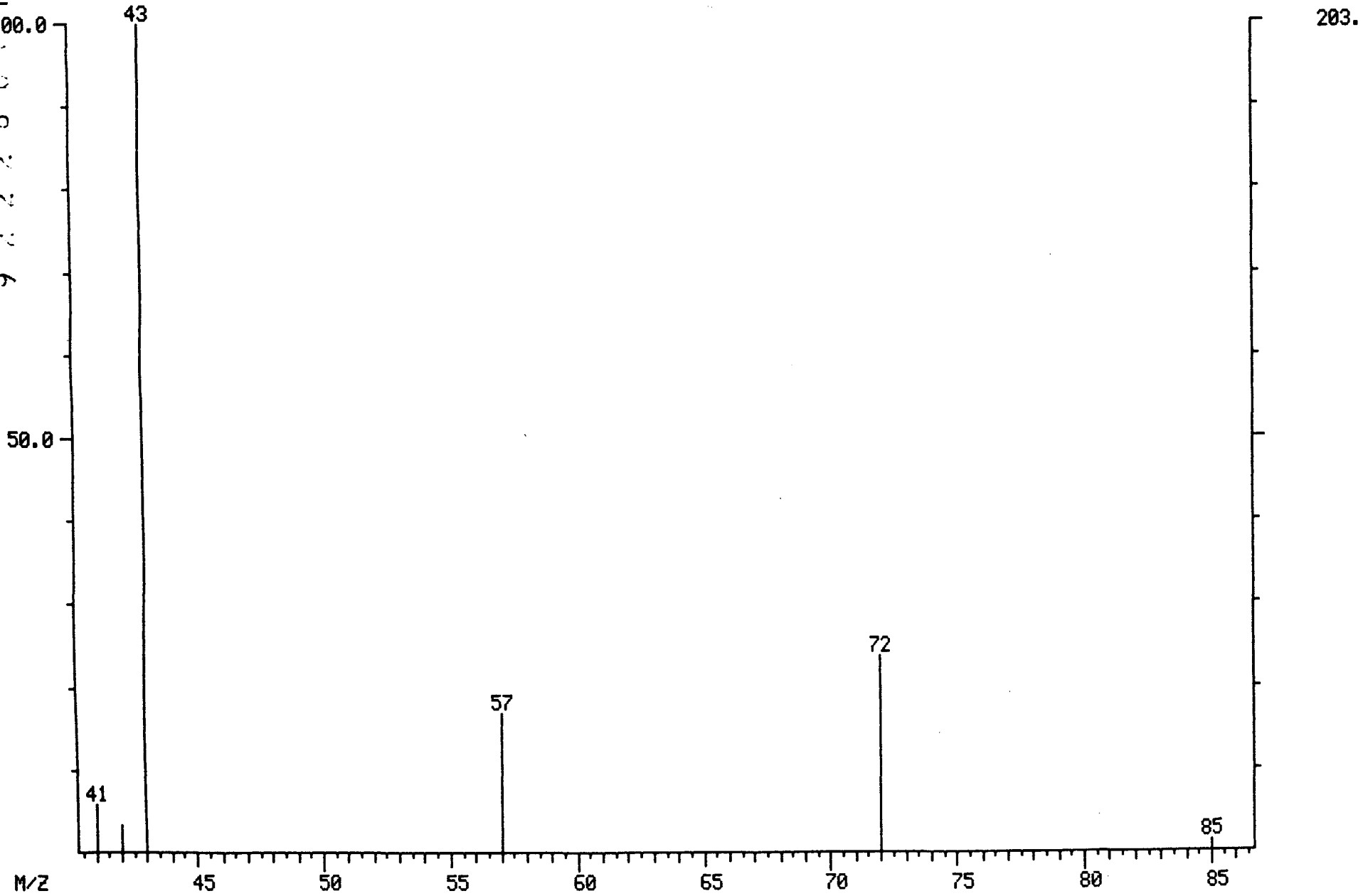
000582



MASS SPECTRUM
04/02/91 13:58:00 + 3:59
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 #299
CALI: B0402LC07 #3

BASE M/Z: 43
RIC: 307.

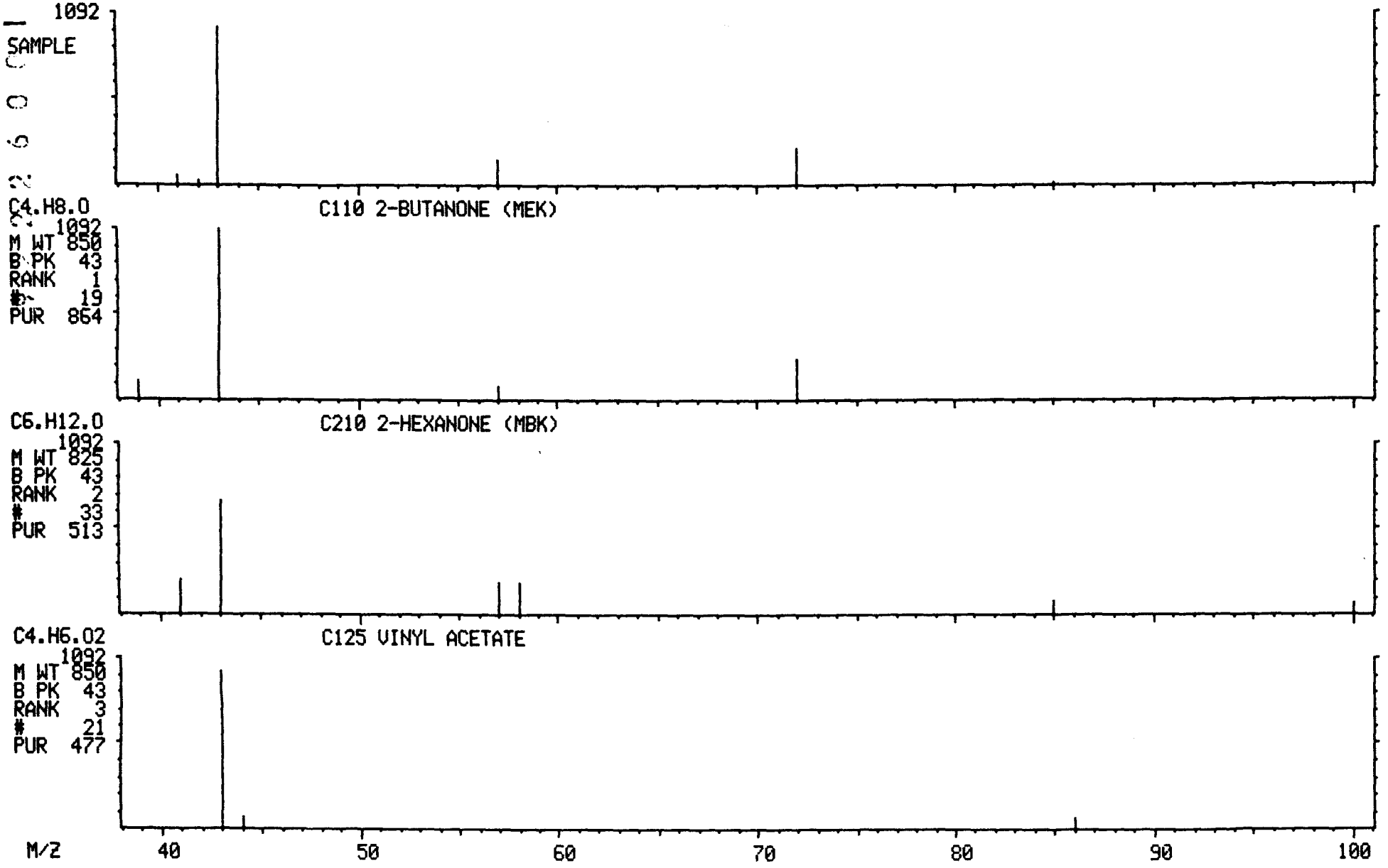


000583

LIBRARY SEARCH
04/02/91 13:58:00 + 3:59
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 # 299
CALI: B0402LC07 # 3

BASE M/Z: 43
RIC: 306.



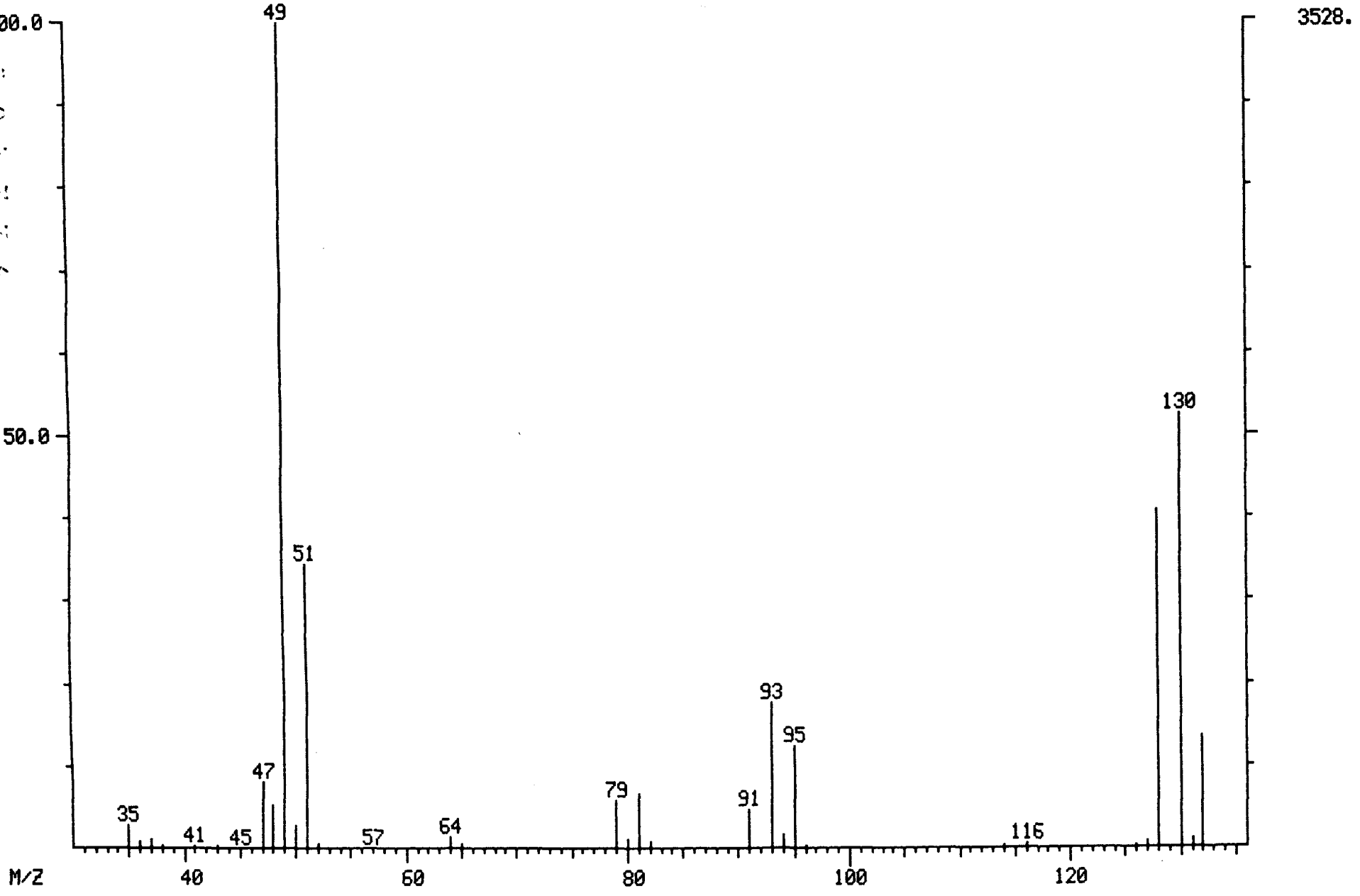
435000

MASS SPECTRUM
04/02/91 13:58:00 + 4:12
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 #315
CALI: B0402LC07 #3

BASE M/Z: 49
RIC: 11264.

000585

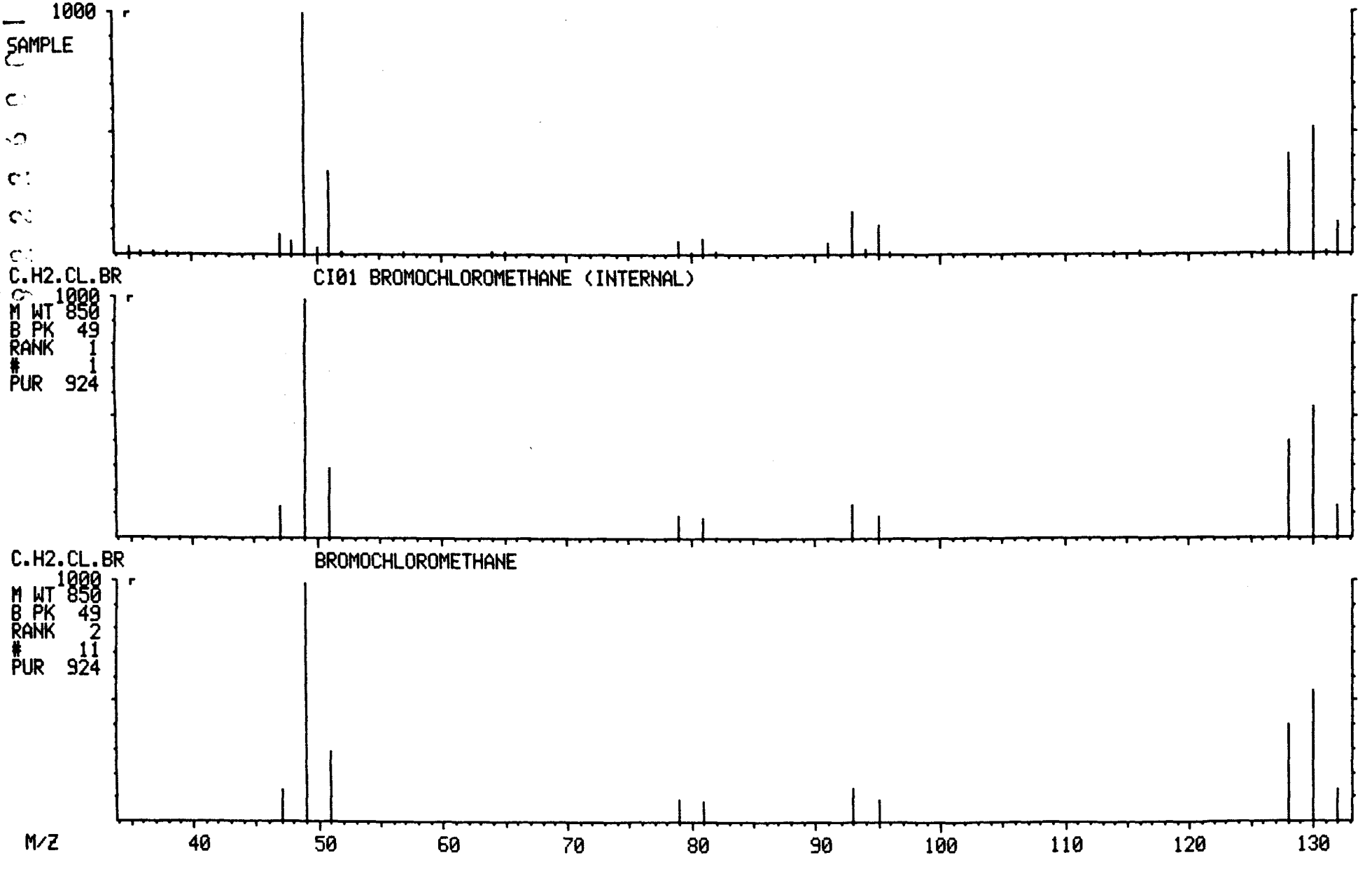


LIBRARY SEARCH
04/02/91 13:58:00 + 4:12
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 # 315
CALI: B0402LC07 # 3

BASE M/Z: 49
RIC: 11247.

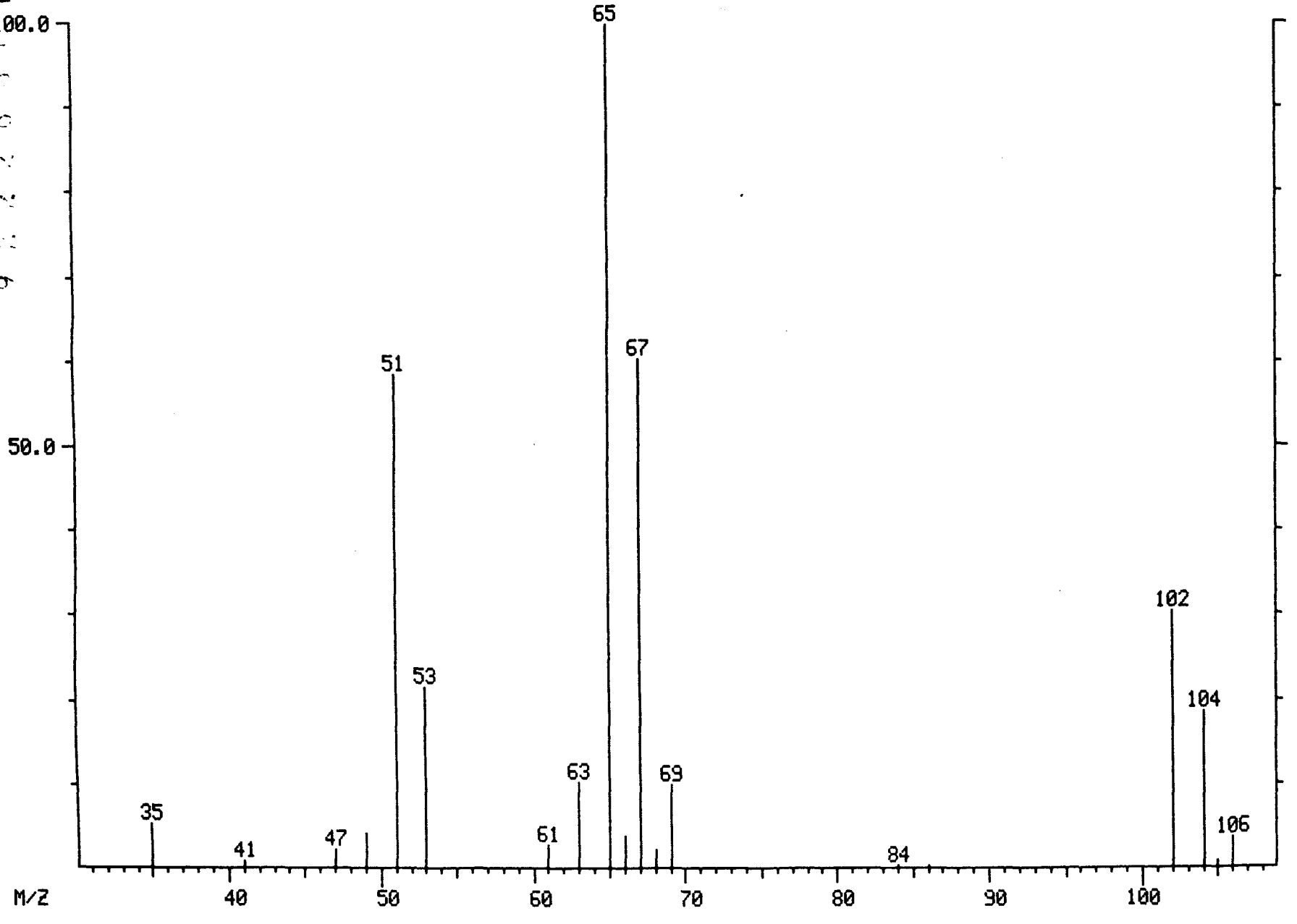
000556



MASS SPECTRUM
04/02/91 13:58:00 + 5:17
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 #396
CALI: B0402LC07 #3

BASE M/Z: 65
RIC: 4864.

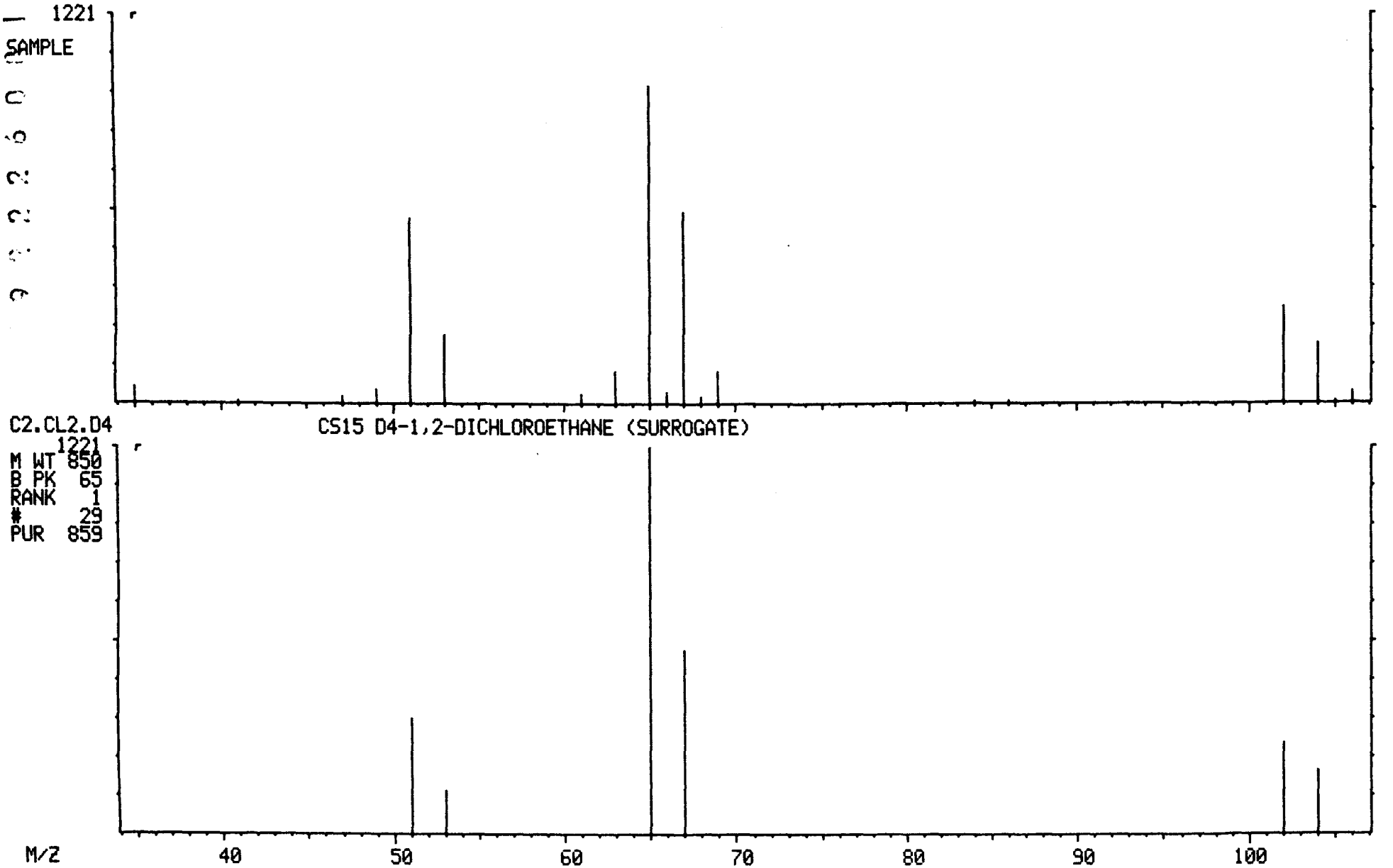


000587

LIBRARY SEARCH
04/02/91 13:58:00 + 5:17
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 # 396
CALI: B0402LC07 # 3

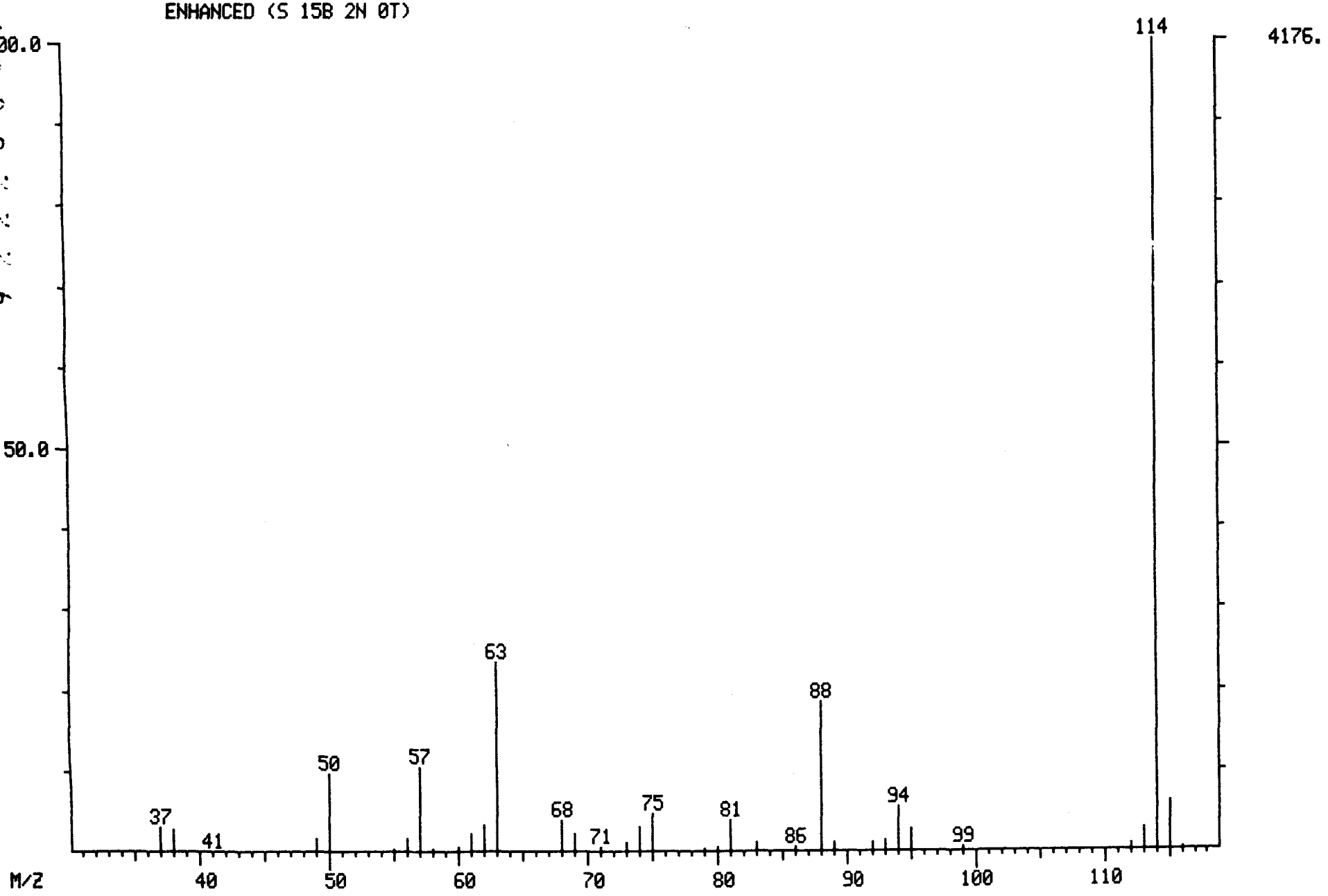
BASE M/Z: 65
RIC: 4863.



MASS SPECTRUM
04/02/91 13:58:00 + 6:22
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 #478
CALI: B0402LC07 #3

BASE M/Z: 114
RIC: 9312.



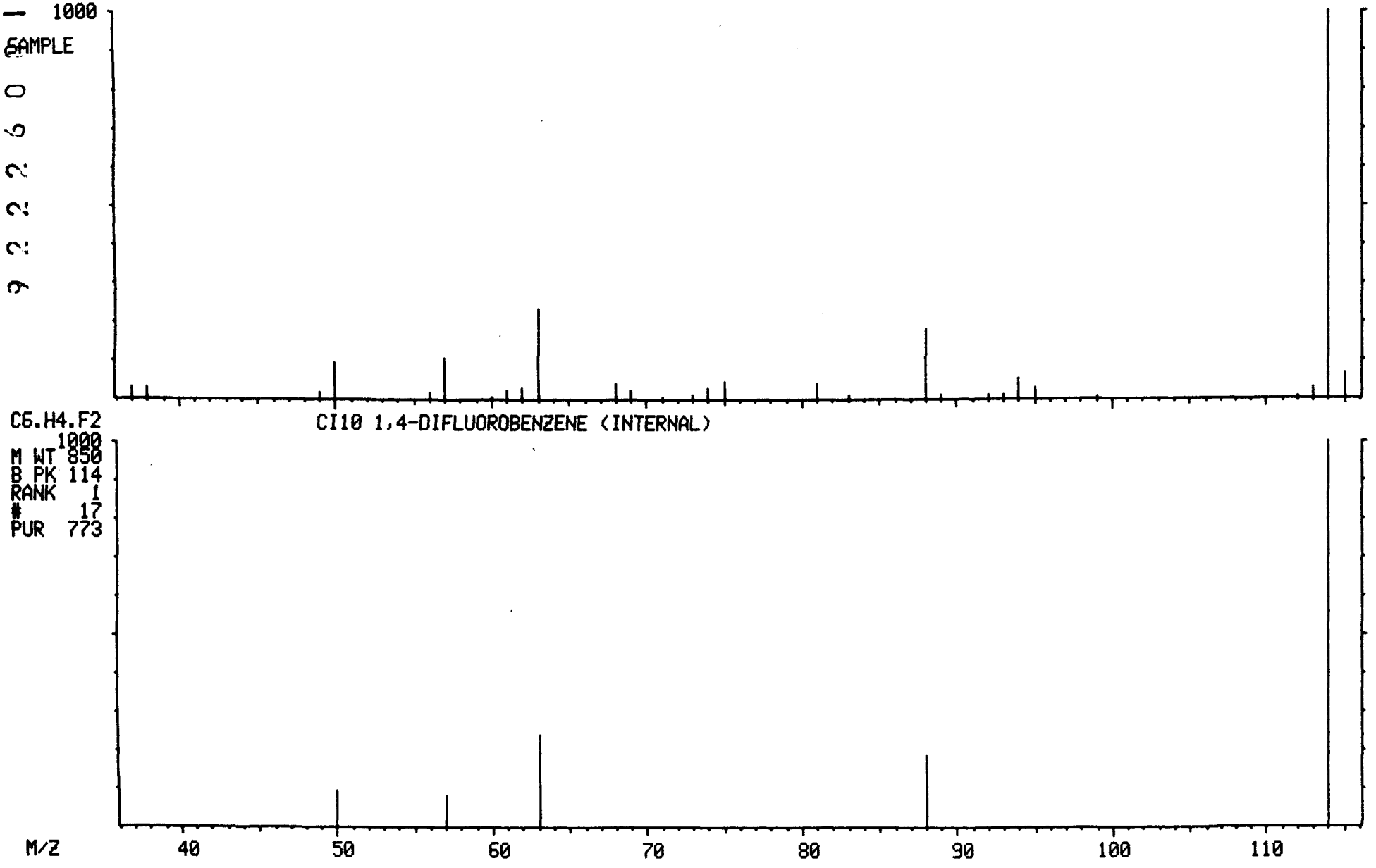
000589

LIBRARY SEARCH
04/02/91 13:58:00 + 6:22
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 # 478
CALI: B0402LC07 # 3

BASE M/Z: 114
RIC: 9199.

000590

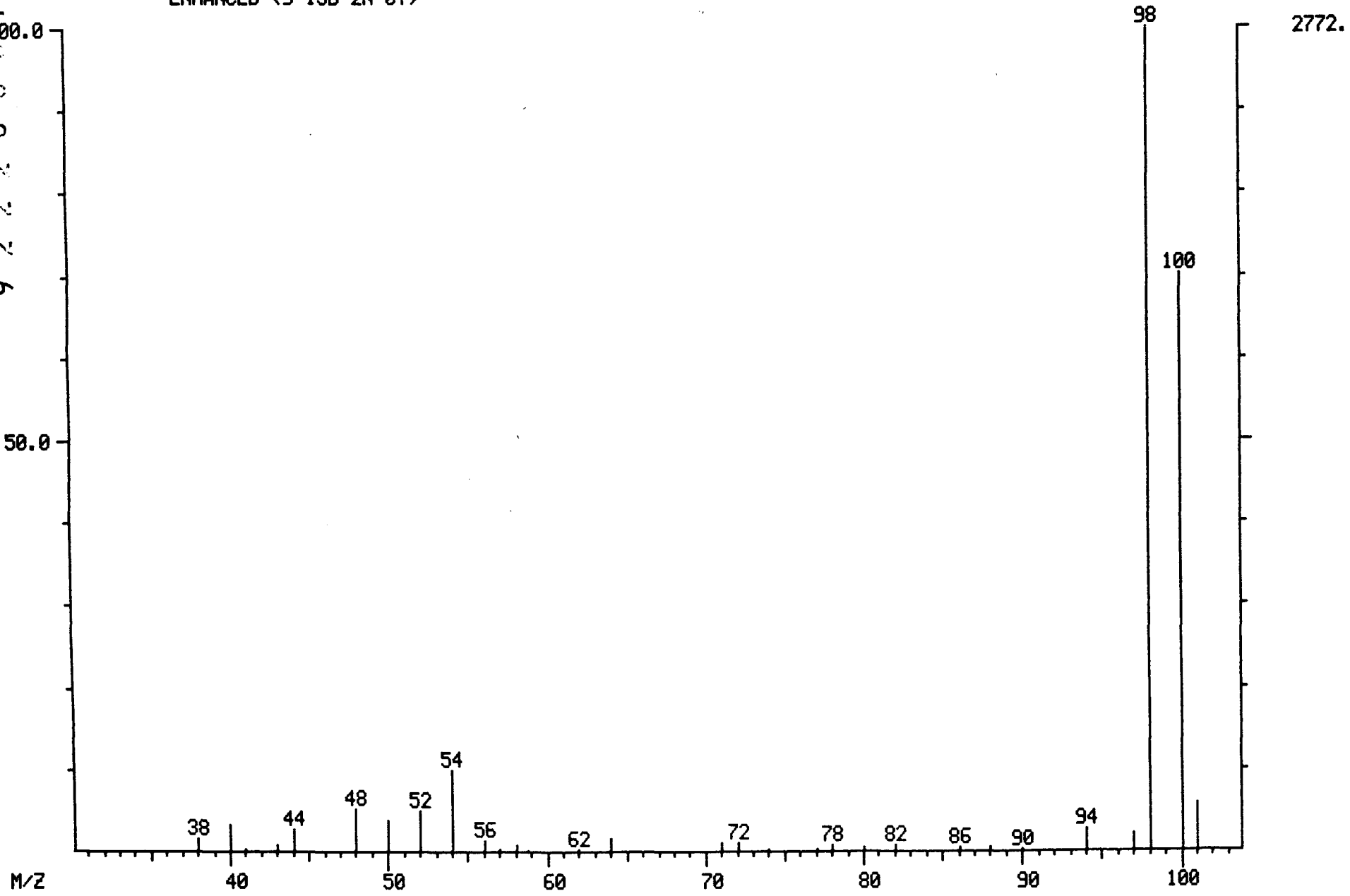


MASS SPECTRUM
04/02/91 13:58:00 + 11:03
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 #829
CALI: B0402LC07 #3

BASE M/Z: 98
RIC: 6232.

000591

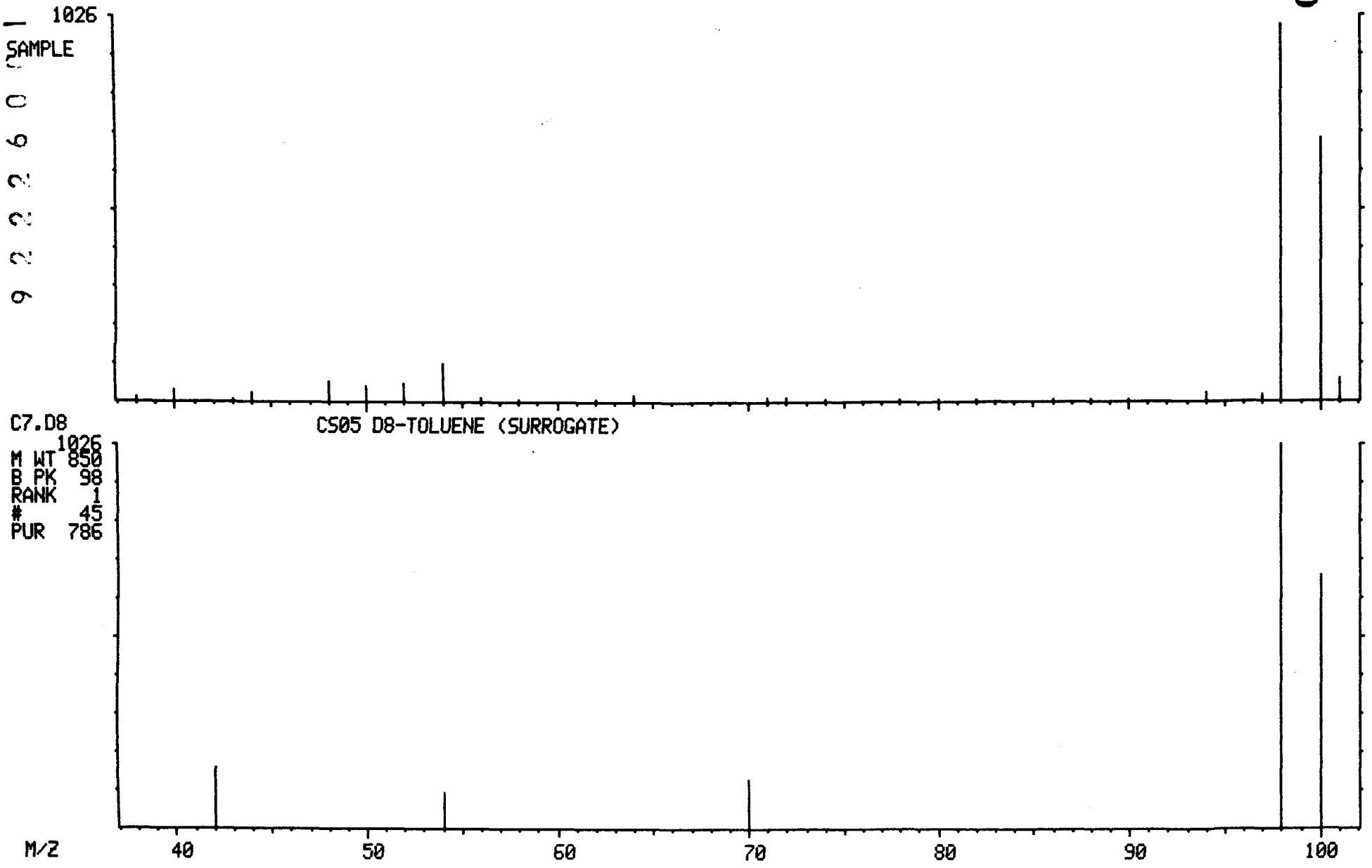


LIBRARY SEARCH
04/02/91 13:58:00 + 11:03
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 # 829
CALI: B0402LC07 # 3

BASE M/Z: 98
RIC: 6215.

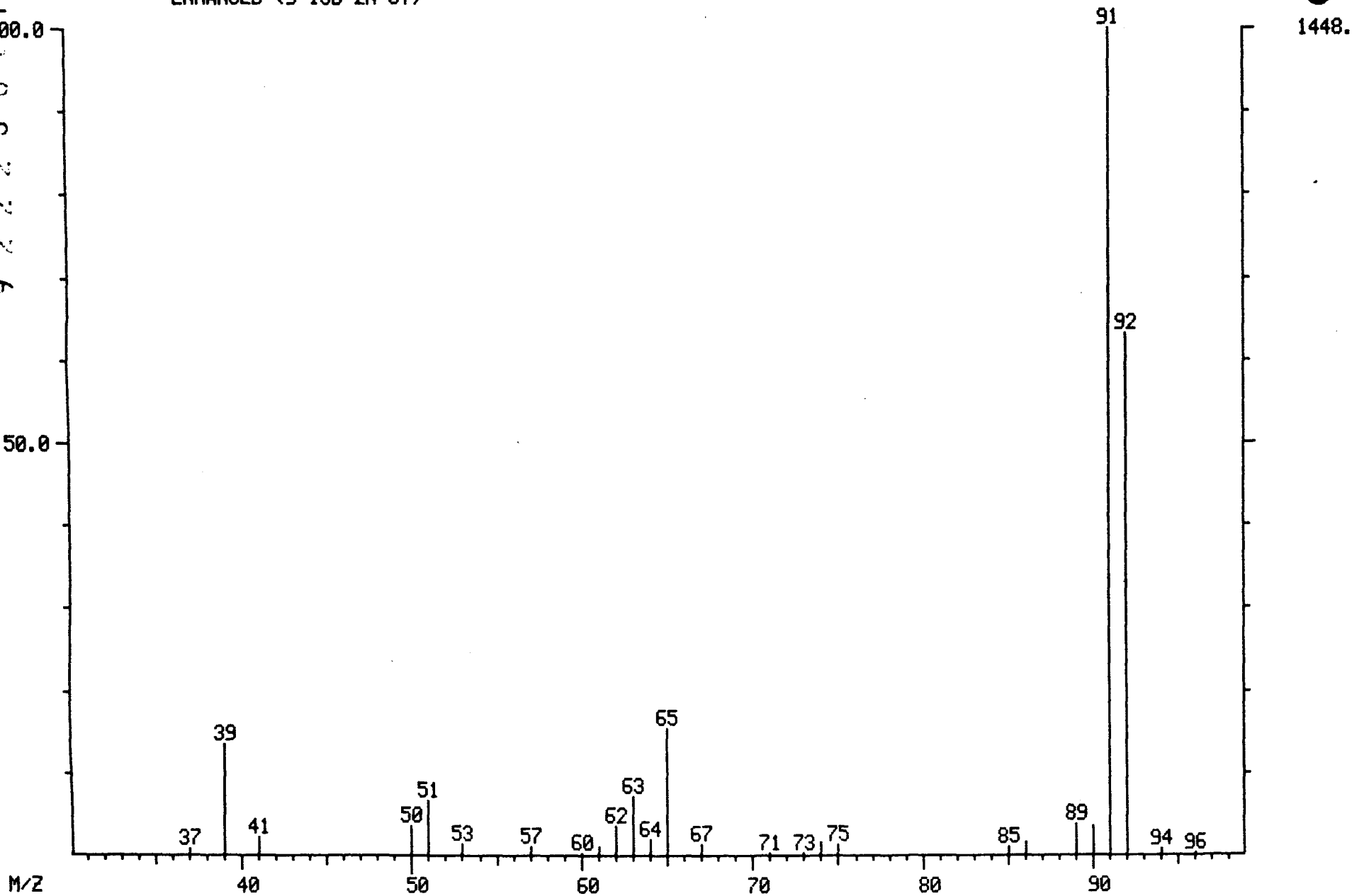
000592



MASS SPECTRUM
04/02/91 13:58:00 + 11:19
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 #849
CALI: B0402LC07 #3

BASE M/Z: 91
RIC: 3468.



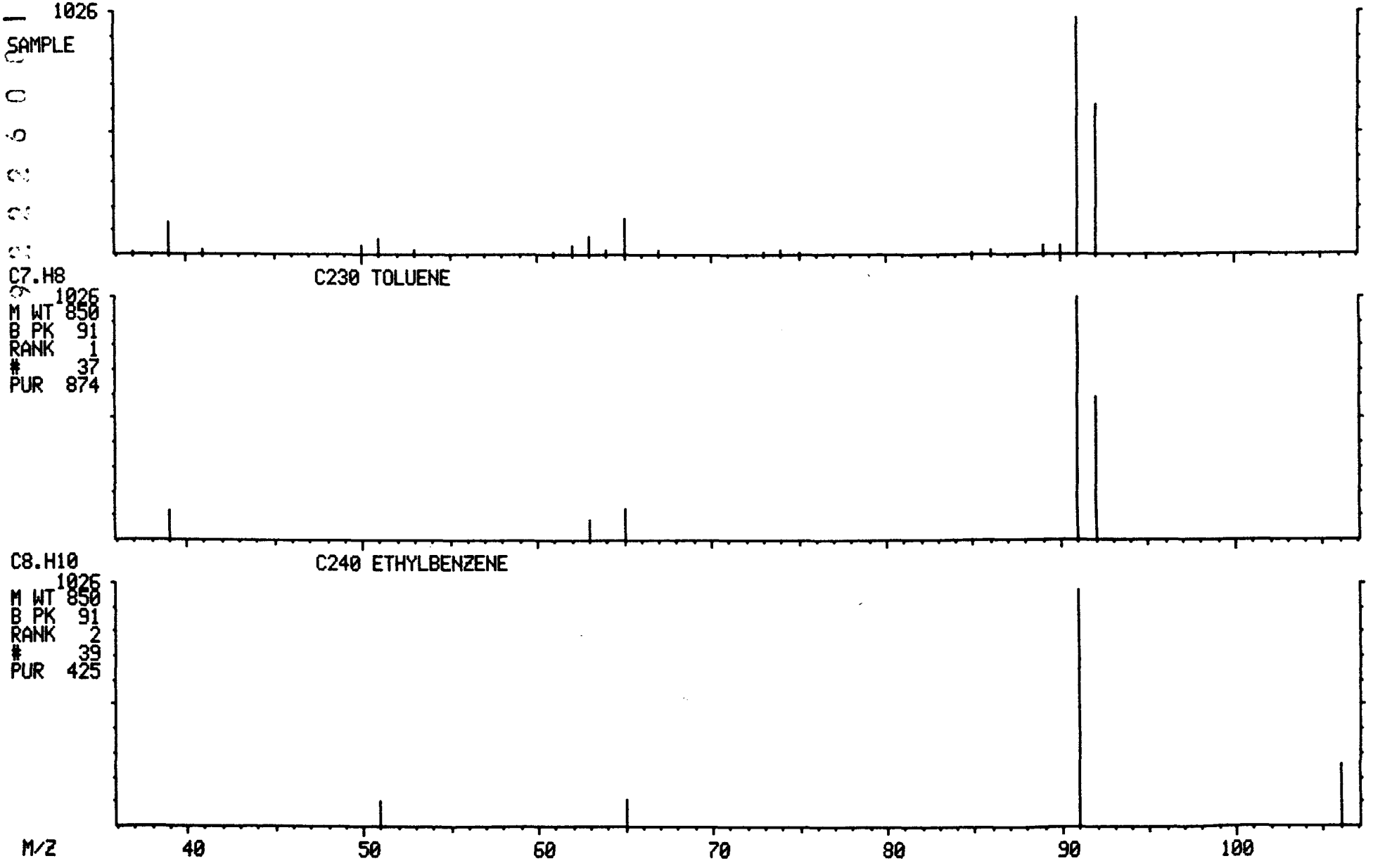
000593

LIBRARY SEARCH
04/02/91 13:58:00 + 11:19
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 # 849
CALI: B0402LC07 # 3

BASE M/Z: 91
RIC: 3427.

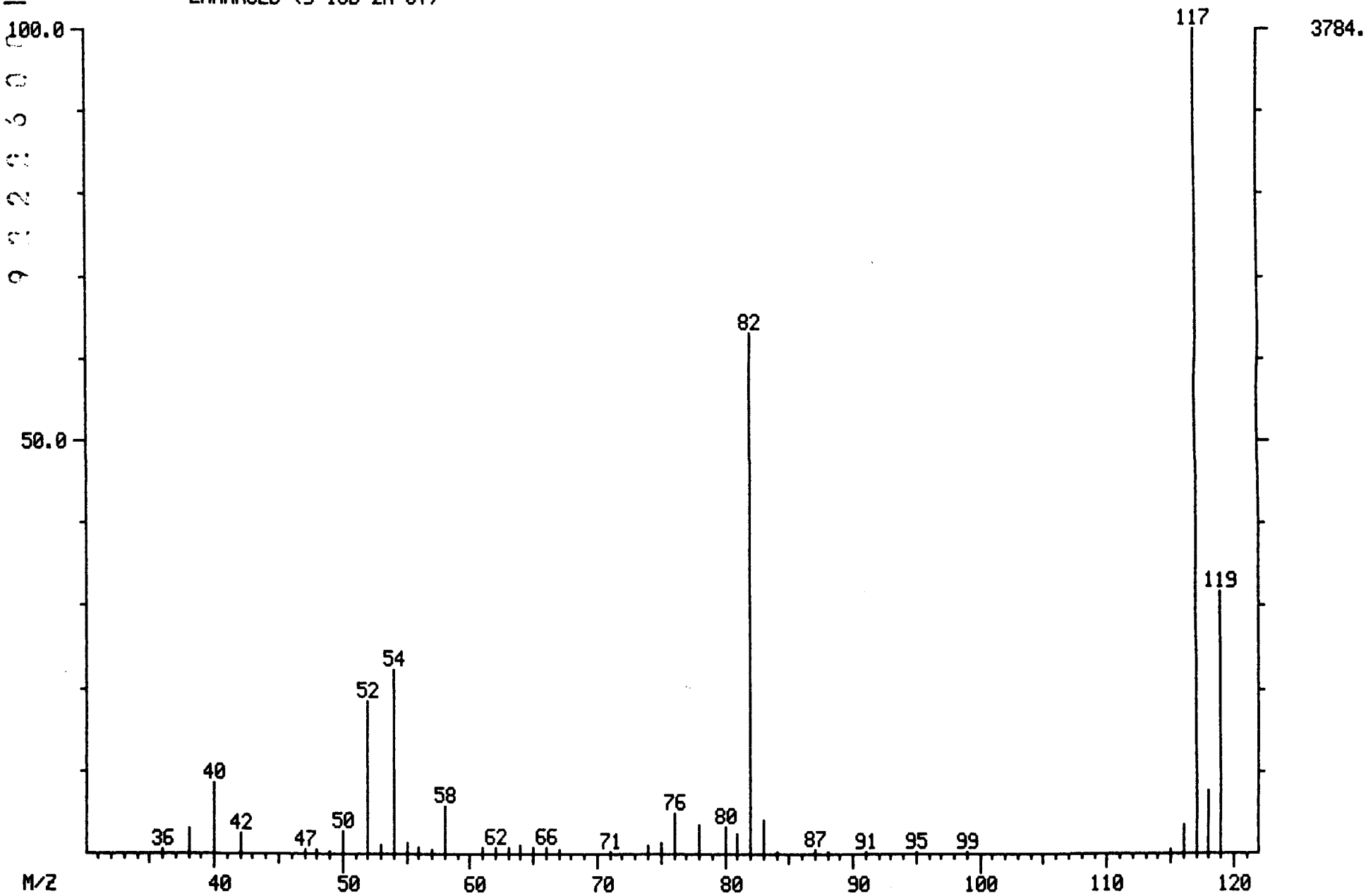
000594



MASS SPECTRUM
04/02/91 13:58:00 + 17:27
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 #1309
CALI: B0402LC07 #3

BASE M/Z: 117
RIC: 11584.

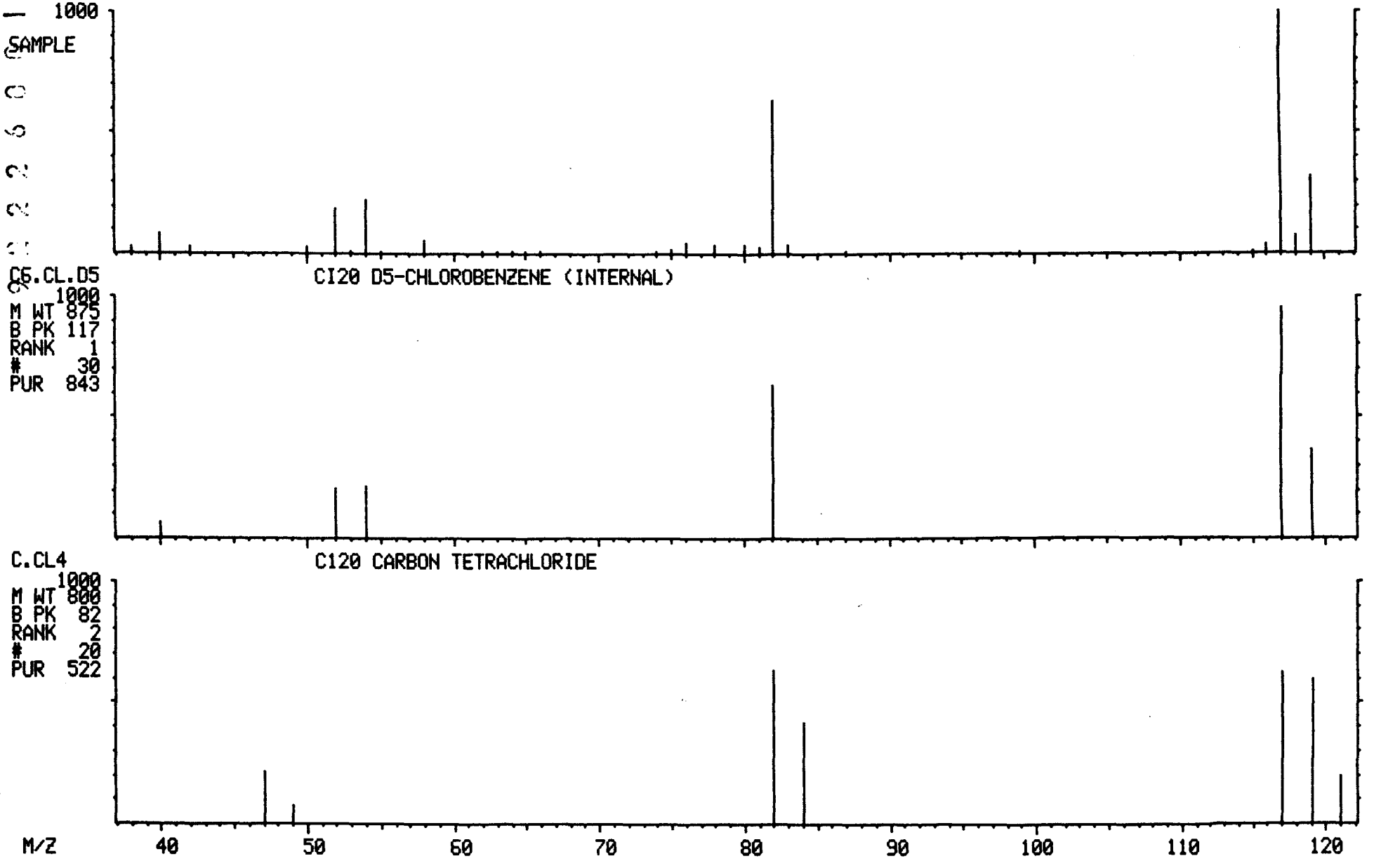


000595

LIBRARY SEARCH
04/02/91 13:58:00 + 17:27
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 #1309
CALI: B0402LC07 # 3

BASE M/Z: 117
RIC: 11359.

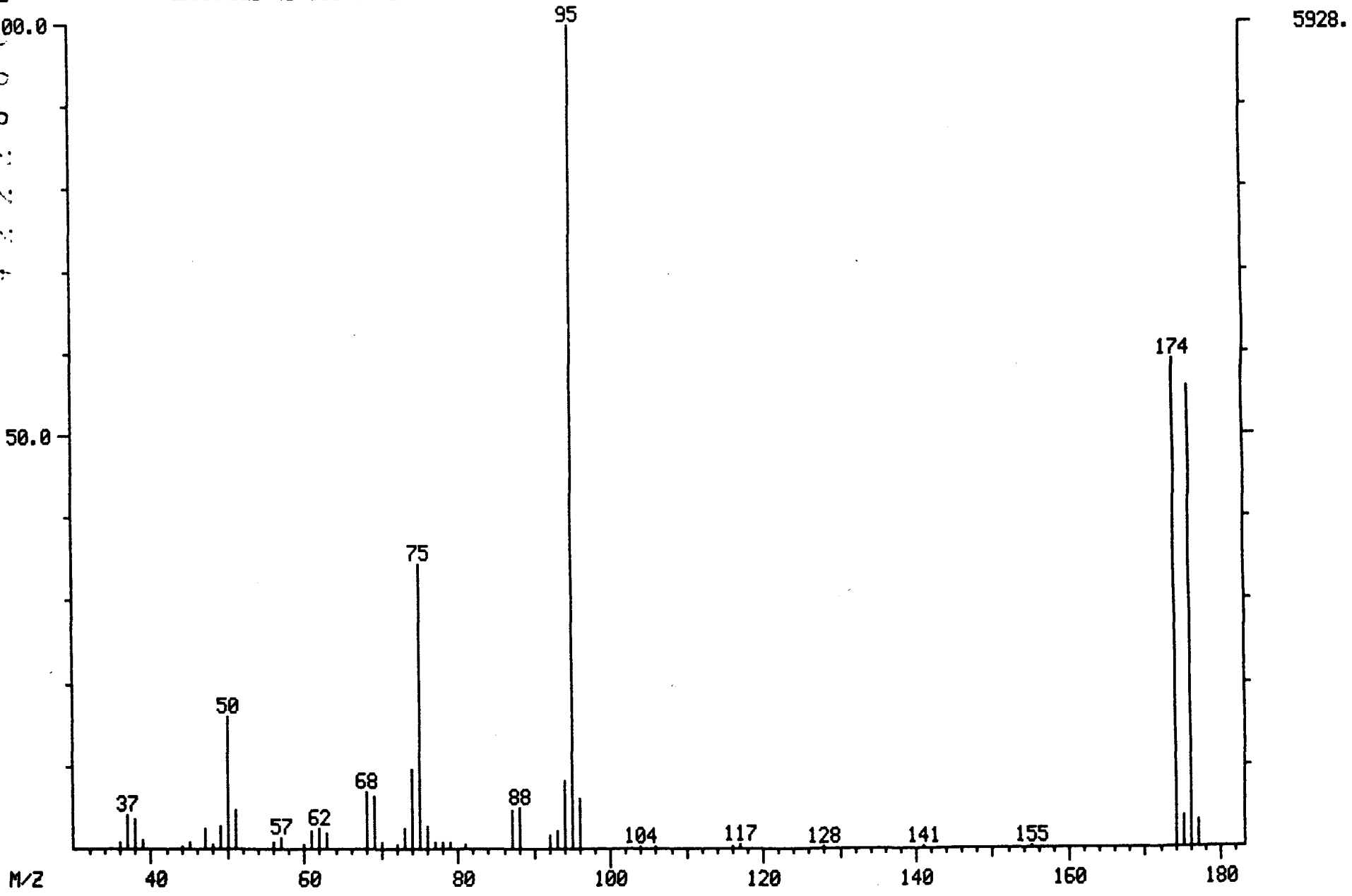


MASS SPECTRUM
04/02/91 13:58:00 + 21:59
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 #1649
CALI: B0402LC07 #3

BASE M/Z: 95
RIC: 21760.

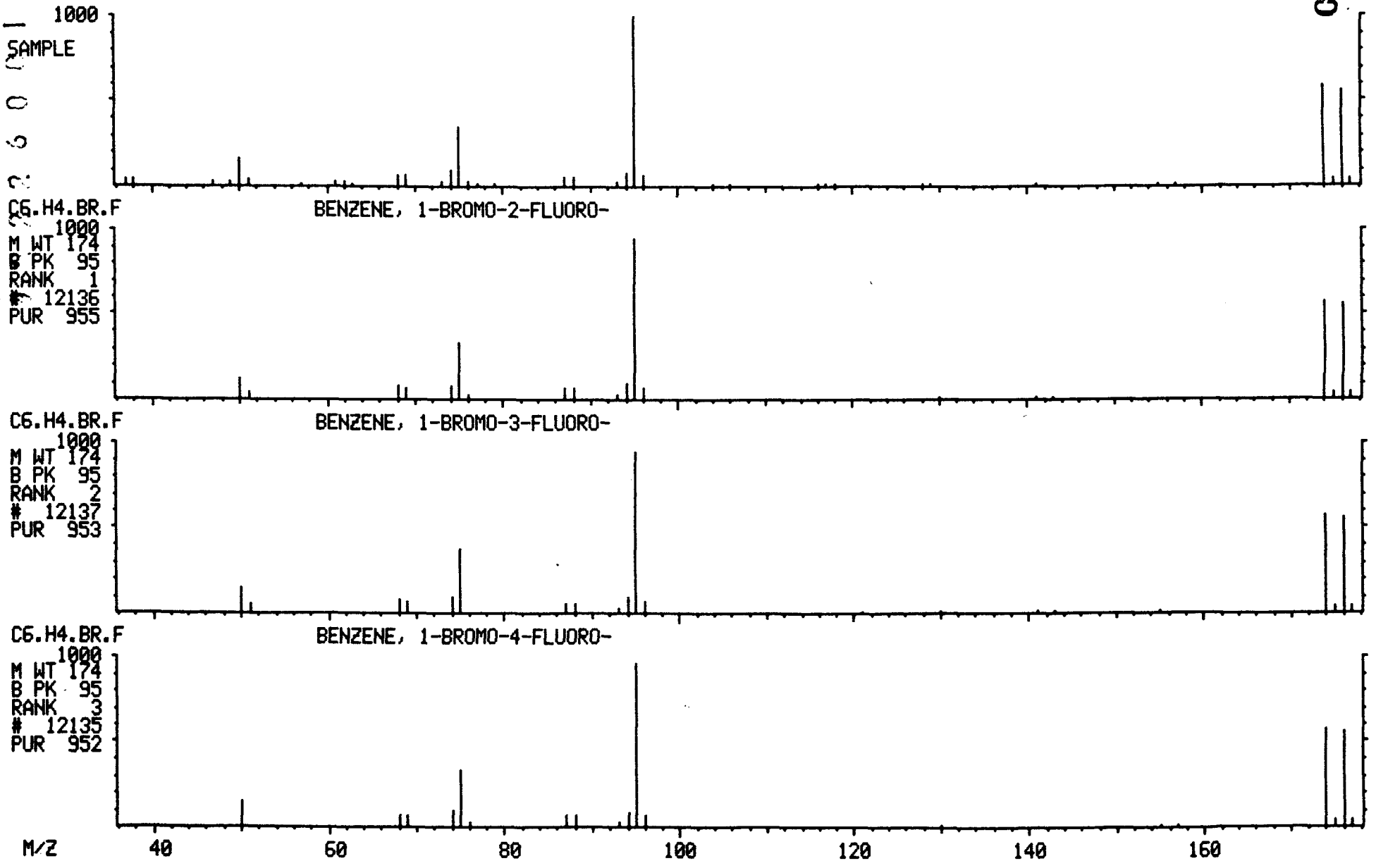
000597



LIBRARY SEARCH
04/02/91 13:58:00 + 21:59
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 #1649
CALI: B0402LC07 # 3

BASE M/Z: 95
RIC: 21183.

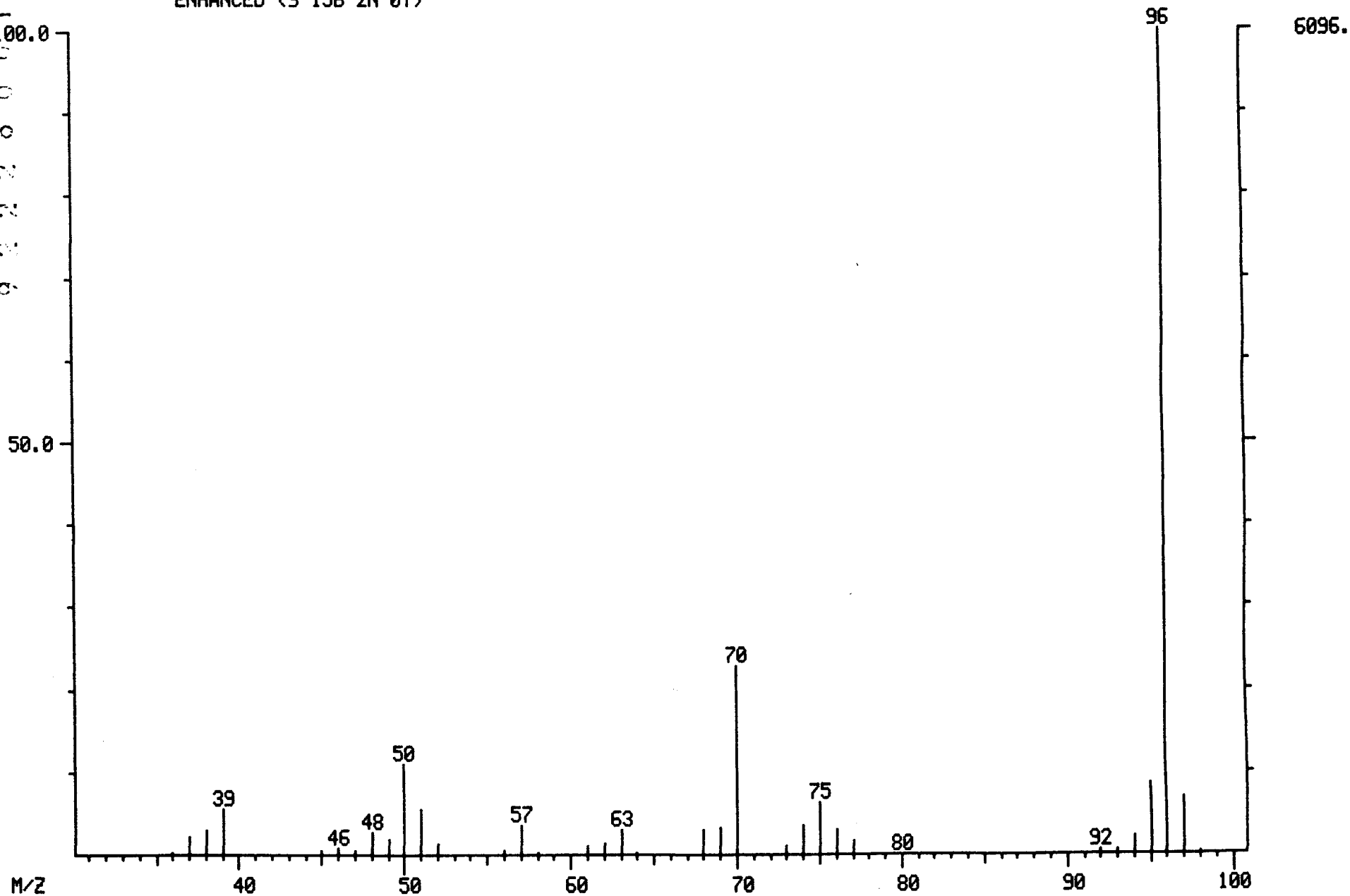


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/02/91 13:58:00 + 5:59
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 #449
CALI: B0402LC07 #3

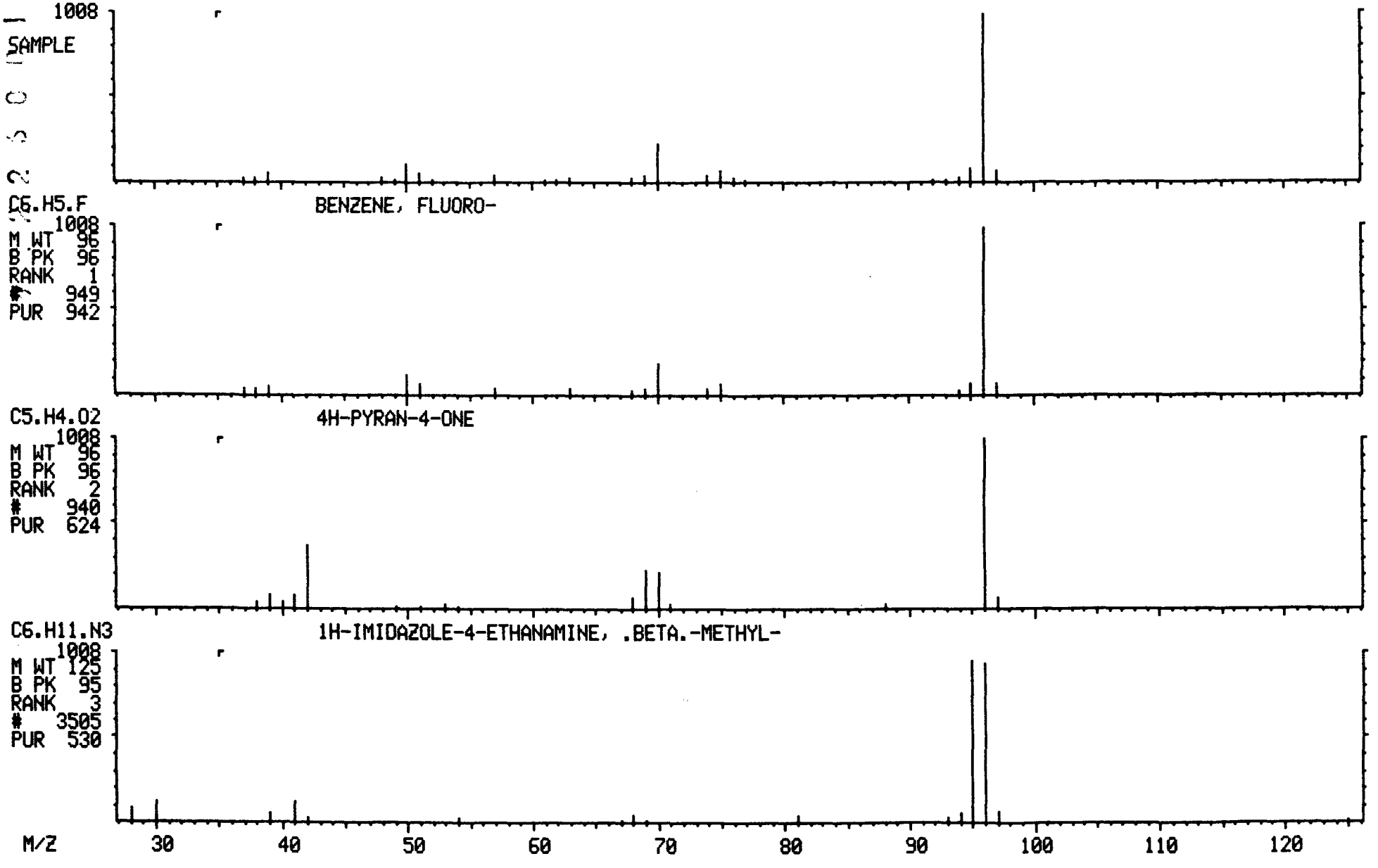
BASE M/Z: 96
RIC: 12880.



LIBRARY SEARCH
04/02/91 13:58:00 + 5:59
SAMPLE: 90911, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC07 # 449
CALI: B0402LC07 # 3

BASE M/Z: 96
RIC: 12543.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190912

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0329LC08

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 35 Date Analyzed: 03/29/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	8	U
67-64-1	Acetone	15	U
75-15-0	Carbon Disulfide	8	U
75-35-4	1,1-Dichloroethene	8	U
75-34-3	1,1-Dichloroethane	8	U
540-59-0	1,2-Dichloroethene (total)	8	U
67-66-3	Chloroform	8	U
107-06-2	1,2-Dichloroethane	8	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
108-05-4	Vinyl Acetate	15	U
75-27-4	Bromodichloromethane	8	U
78-87-5	1,2-Dichloropropane	8	U
10061-01-5	cis-1,3-Dichloropropene	8	U
79-01-6	Trichloroethene	8	U
124-48-1	Dibromochloromethane	8	U
79-00-5	1,1,2-Trichloroethane	8	U
71-43-2	Benzene	8	U
10061-02-6	trans-1,3-Dichloropropene	8	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-Pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	8	U
108-88-3	Toluene	8	U
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
100-42-5	Styrene	8	U
1330-20-7	Xylene (total)	8	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X114

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190912

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0329LC08

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. 35 Date Analyzed: 03/29/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

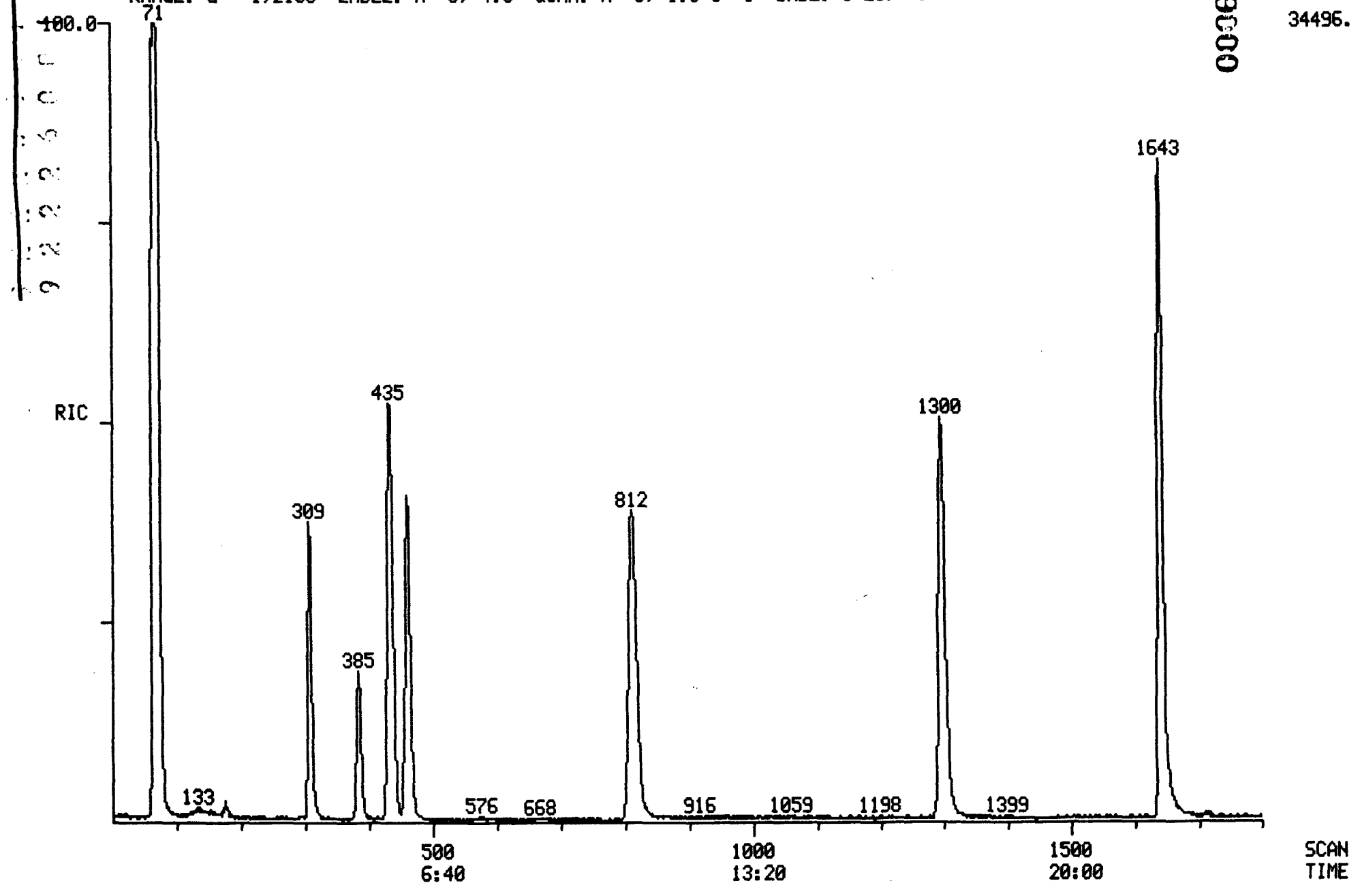
000603

X 114

RIC
03/29/91 13:59:00
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0329LC08 #1
CALI: B0329LC08 #3

SCANS 1 TO 1800

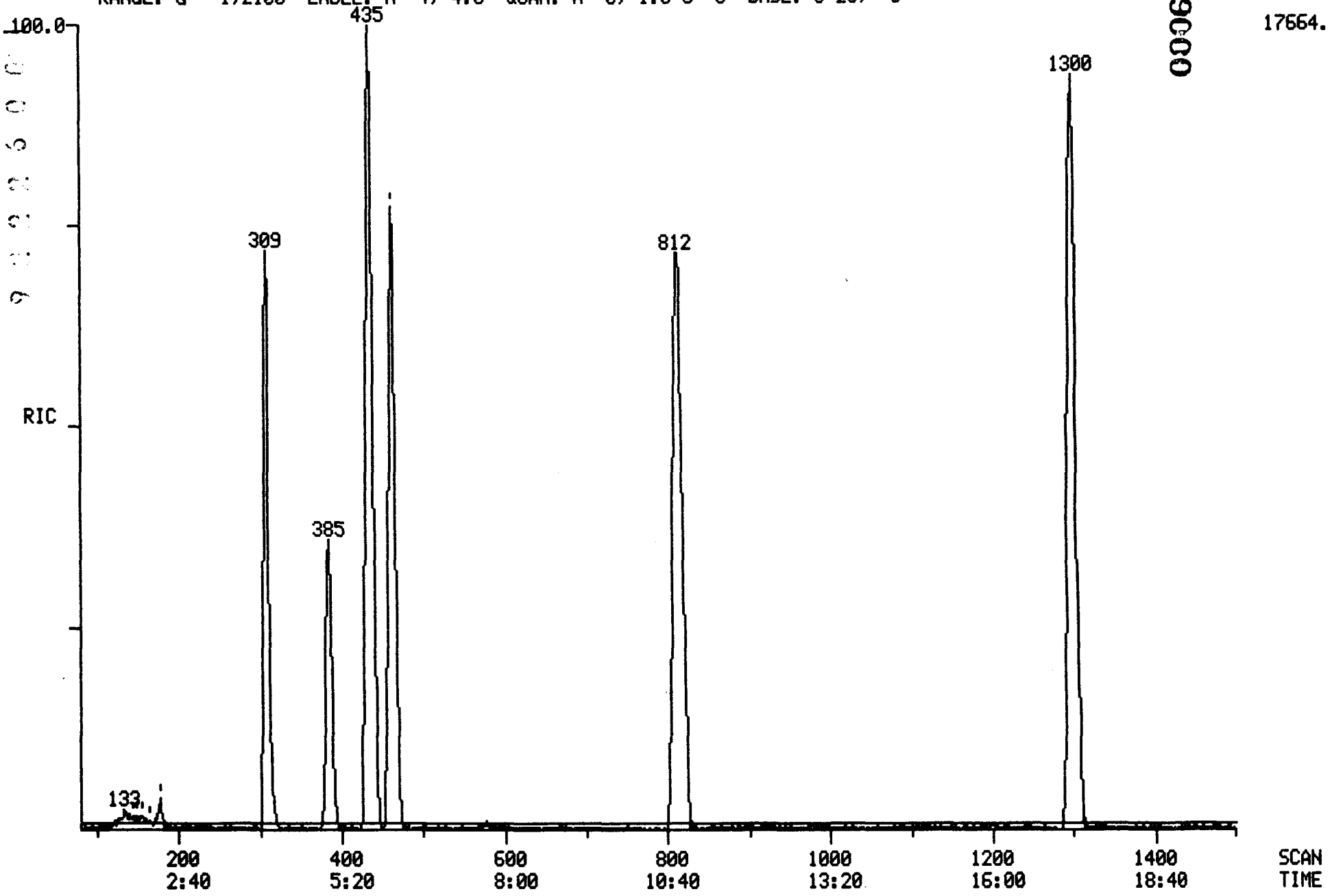


34496.

000604

RIC
03/29/91 13:59:00
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0329LC08 #1 SCANS 80 TO 1500
CALI: B0329LC08 #3

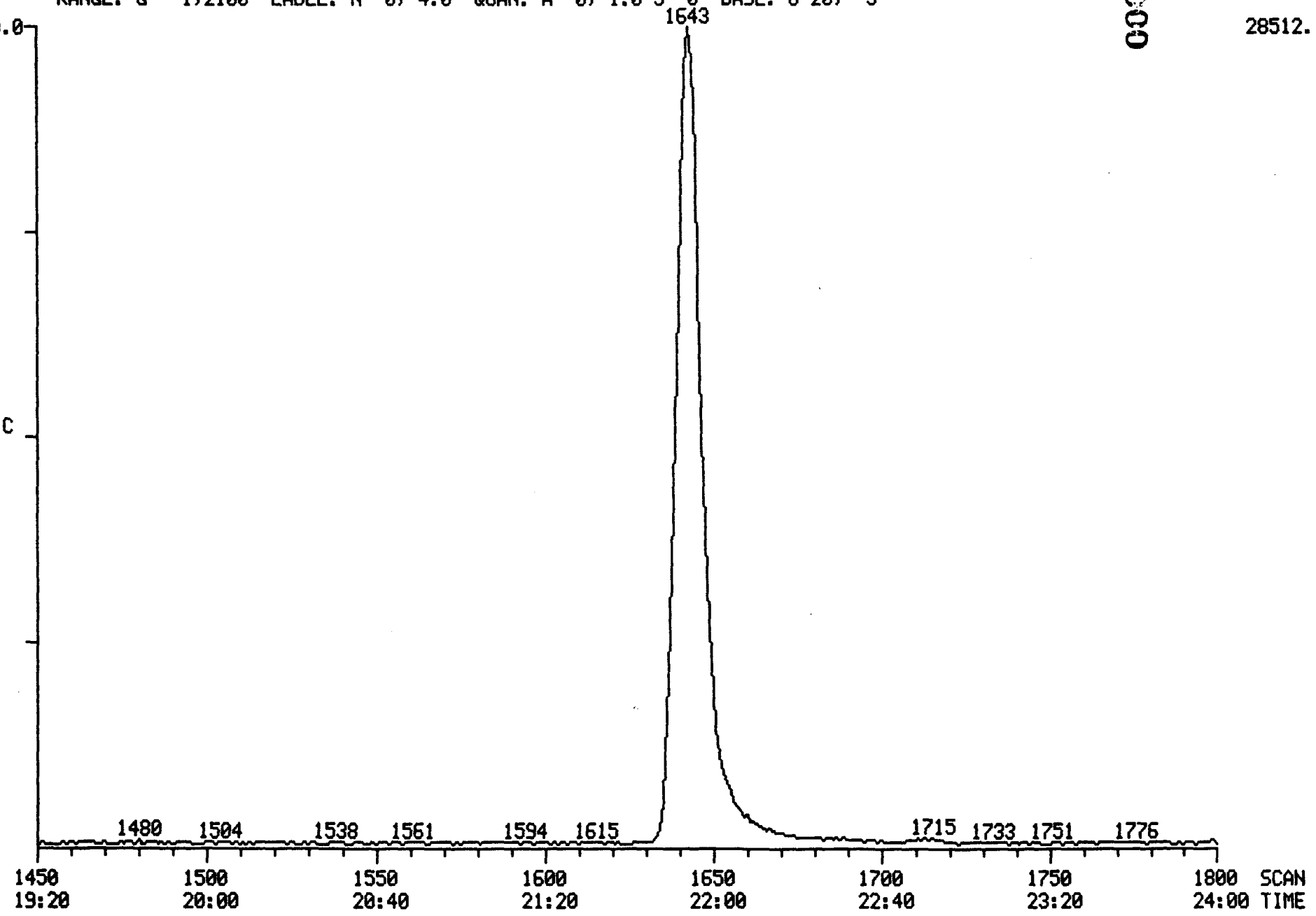


009605

RIC
03/29/91 13:59:00
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0329LC08 #1
CALI: B0329LC08 #3

SCANS 1450 TO 1800



28512.

009600

3/29/91 13:59:27 SCAN 1 OF 2100
Acquisition started

Acquire | Run 0:B0329LC08 | Acquiring
03/29/91 13:59:00 + 0:01 | Free sectors: 8287 | Scan: 1 of 2100
Sample: 90912, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: | Instrument: 5100 | Weight: 0.004
Submitted by: | Analyst: LC | Acct. No:

*** GC descriptor: LC ***

GC temperature: 31 DegC | Injector: 150 DegC
Elapsed time : 0: 3 min | Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u | Scan time (s) Up: 0.75 L* | Hold time (s) Top: 0.00
High mass: 400 u | Down: 0.00 L | Bottom: 0.05

Cent S/P: 10 Actual: 10 | Samp int (ms): 0.200 | Peak width: 1000.
Frag S/P: 10 Actual: 10 | Samp int (ms): 0.200 | Inten/ion: 2

Min peak width: 3 | Min frag width %: 80 | Min area: 50
ADC threshold: 2 | Baseline: 0

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

000607

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

3/29/91 14:28:37
Acquisition completed

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	1054	6.0	843.2	0.7	12963.	12.	15.

PROCEDURE: TCA DIAGNOSTIC REPORT 3/29/91 16:56:59
DATA FILE: B0329LC08
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 10 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	5	94	CLSRT1/CLSTC1
1	1	2	0	13	3	1	96	CLSRT2/CLSTC2
1	1	1	0	16	3	4	107	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 9 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRD ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	312	309	309	.	1	975	.	128	308	-1	1
2	CS	2	-97	100	.	.	.	.	.	50	.	.	.
3	CS	3	-107	110	.	.	.	.	.	94	.	.	.
4	CS	4	-100	103	.	.	.	.	.	62	.	.	.
5	CS	5	-111	114	.	.	.	.	.	64	.	.	.
6	CS	6	177	178	177	-1	1	984	.	84	177	.	1
7	CS	7	153	154	155	1	5	815	.	43	155	.	1
8	CS	8	-155	156	.	.	.	.	.	76	.	.	.
9	CS	9	-143	145	.	.	.	.	.	96	.	.	.
10	CS	10	-228	227	.	.	.	.	.	63	.	.	.
11	CS	12	-327	323	.	.	.	.	.	83	320	.	1
12	CS	13	340	336	.	.	.	.	.	97	336	.	1
13	CS	14	-117	119	.	.	.	.	.	101	.	.	.
14	CS	15	-195	195	.	.	.	.	.	96	.	.	.
15	CS	16	-285	283	.	.	.	.	.	96	.	.	.
16	CS	17	472	463	463	.	2	997	.	114	463	.	1
17	CS	18	-403	396	.	.	.	.	.	62	.	.	.
18	CS	19	296	294	294	.	1	896	.	72	294	.	1
19	CS	20	-361	356	.	.	.	.	.	117	.	.	.
20	CS	21	-232	232	.	.	.	.	.	43	.	.	.
21	CS	22	-643	627	.	.	.	.	.	83	.	.	.
22	CS	23	-561	548	.	.	.	.	.	63	.	.	.
23	CS	24	-763	742	.	.	.	.	.	75	.	.	.
24	CS	25	-510	499	.	.	.	.	.	130	.	.	.
25	CS	27	-395	389	.	.	.	.	.	78	.	.	.
26	CS	28	-751	730	.	.	.	.	.	106	.	.	.
27	CS	29	392	386	385	-1	1	968	.	65	385	.	1
28	CS	43	-1553	1500	.	.	.	.	.	173	.	.	.
29	CS	30	1304	1300	1300	.	1	993	.	117	1300	.	1
30	CS	26	-1127	1120	.	.	.	.	.	129	.	.	.
31	CS	31	-1007	999	.	.	.	.	.	97	998	.	1
32	CS	32	-953	945	.	.	.	.	.	75	.	.	.
33	CS	33	-1133	1126	.	.	.	.	.	43	1122	.	1
34	CS	34	-843	834	.	.	.	.	.	43	839	.	2
35	CS	35	-1006	998	.	.	.	.	.	164	.	.	.
36	CS	36	-1725	1724	.	.	.	.	.	83	1720	.	2
37	CS	37	-840	831	.	.	.	.	.	91	830	.	2
38	CS	38	-1313	1308	.	.	.	.	.	112	1306	.	1
39	CS	39	-1364	1360	.	.	.	.	.	106	.	.	.
40	CS	40	-1521	1518	.	.	.	.	.	104	.	.	.
41	CS	41	-1404	1400	.	.	.	.	.	106	1397	.	2
42	CS	42	-1509	1506	.	.	.	.	.	106	.	.	.
43	CS	44	1645	1644	1643	-1	1	991	.	95	1643	.	1
44	CS	45	823	813	813	.	4	994	.	98	812	-1	1

000609

Quantitation Report File: B0329LC08

Data: B0329LC08.TI
03/29/91 13:59:00
Sample: 90912, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	308	4:06	1	1.000	A BB	10557.	50.000 UG/G	11.06
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	177	2:22	1	0.575	A BB	513.	~~1.637~~ UG/G	0.36
7	43	155	2:04	1	0.503	A BB	254.	~~1.934~~ UG/G	0.43
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	83	320	4:16	1	1.039	A BB	34.	~~0.052~~ UG/G	0.01
12	97	336	4:29	1	1.091	A BB	29.	~~0.066~~ UG/G	0.01
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	114	463	6:10	16	1.000	A BB	51615.	50.000 UG/G	11.06
17	NOT FOUND								
18	72	294	3:55	16	0.635	A BB	63.	1.279 UG/G	0.28
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	65	385	5:08	16	0.832	A BB	14805.	94.461 %	20.89
28	NOT FOUND								
29	117	1300	17:20	29	1.000	A BB	56435.	50.000 UG/G	11.06
30	NOT FOUND								
31	97	998	13:18	29	0.768	A BB	29.	~~0.060~~ UG/G	0.01
32	NOT FOUND								
33	43	1122	14:58	29	0.863	A VB	116.	~~0.218~~ UG/G	0.05
34	43	839	11:11	29	0.645	A*BB	98.	~~0.248~~ UG/G	0.05
35	NOT FOUND								
36	83	1720	22:56	29	1.323	A*BB	194.	~~0.232~~ UG/G	0.05
37	91	830	11:04	29	0.638	A*BB	247.	~~0.217~~ UG/G	0.05
38	112	1306	17:25	29	1.005	A BB	32.	~~0.027~~ UG/G	0.01
39	NOT FOUND								
40	NOT FOUND								
41	106	1397	18:38	29	1.075	A*BB	70.	~~0.077~~ UG/G	0.02
42	NOT FOUND								
43	95	1643	21:54	29	1.264	A BB	56723.	97.047 %	21.46
44	98	812	10:50	29	0.625	A BB	59292.	104.792 %	23.17

Quantitation Report File: B0329LC08A

Data: B0329LC08.TI
03/29/91 13:59:00
Sample: 90912, 5.0G/ 5ML H2O+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	435	5:48	1	1.000	A BB	167779.	66.200	*100.

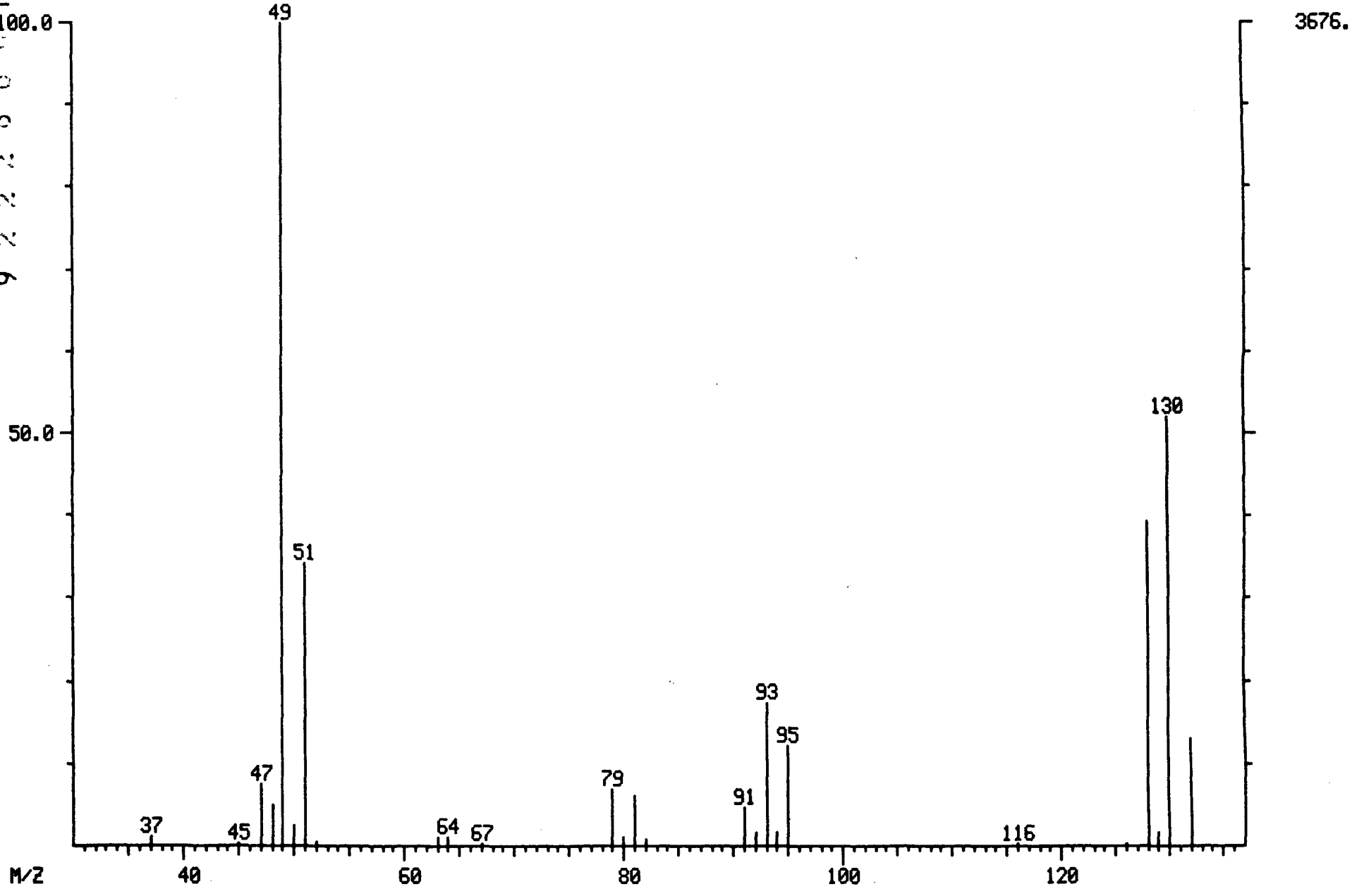
TARGET COMPOUND SPECTA

MASS SPECTRUM
03/29/91 13:59:00 + 4:06
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 37 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 #308
CALI: B0329LC08 #3

BASE M/Z: 49
RIC: 11520.

000614

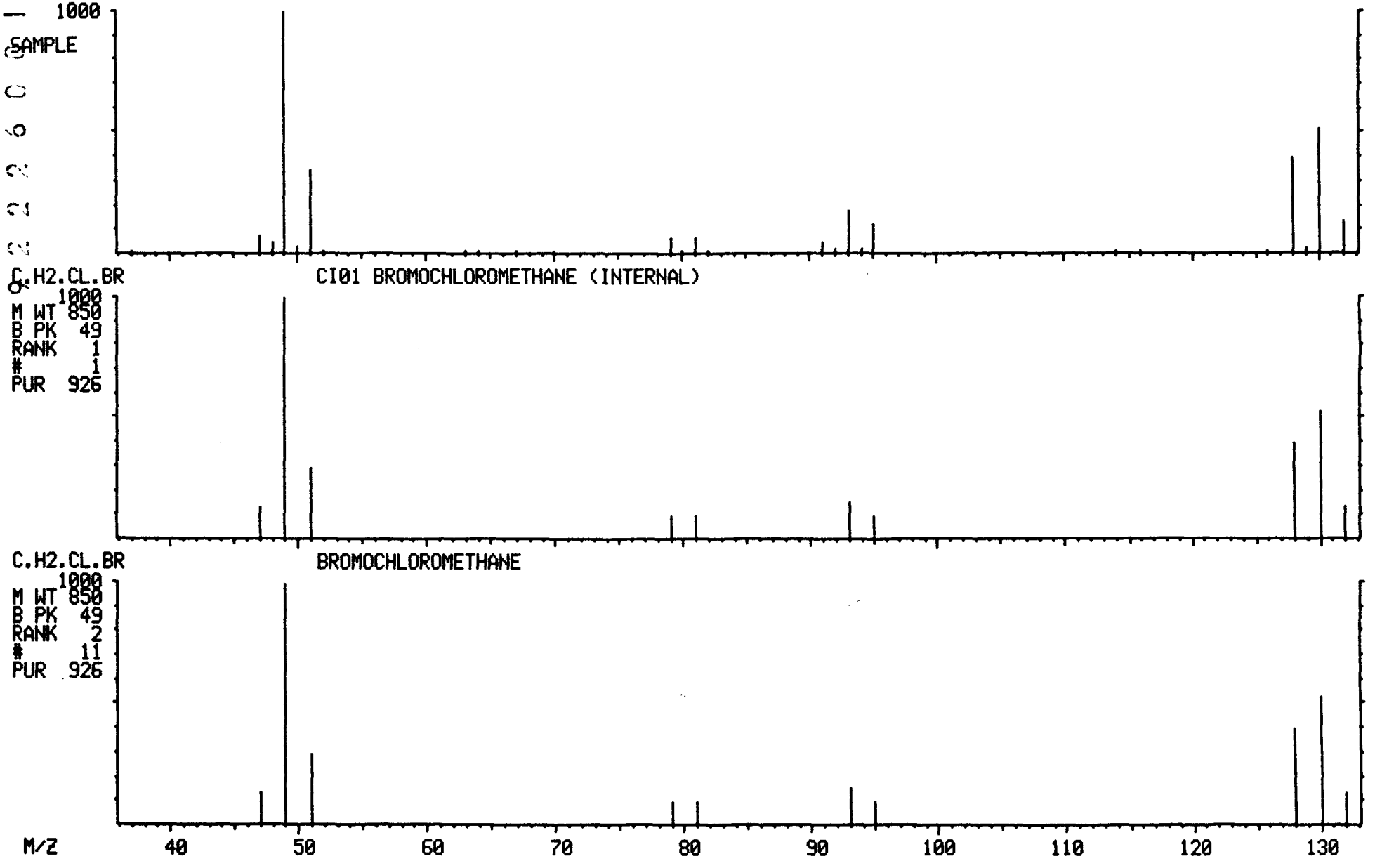


LIBRARY SEARCH
03/29/91 13:59:00 + 4:06
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 # 308
CALI: B0329LC08 # 3

BASE M/Z: 49
RIC: 11503.

000615

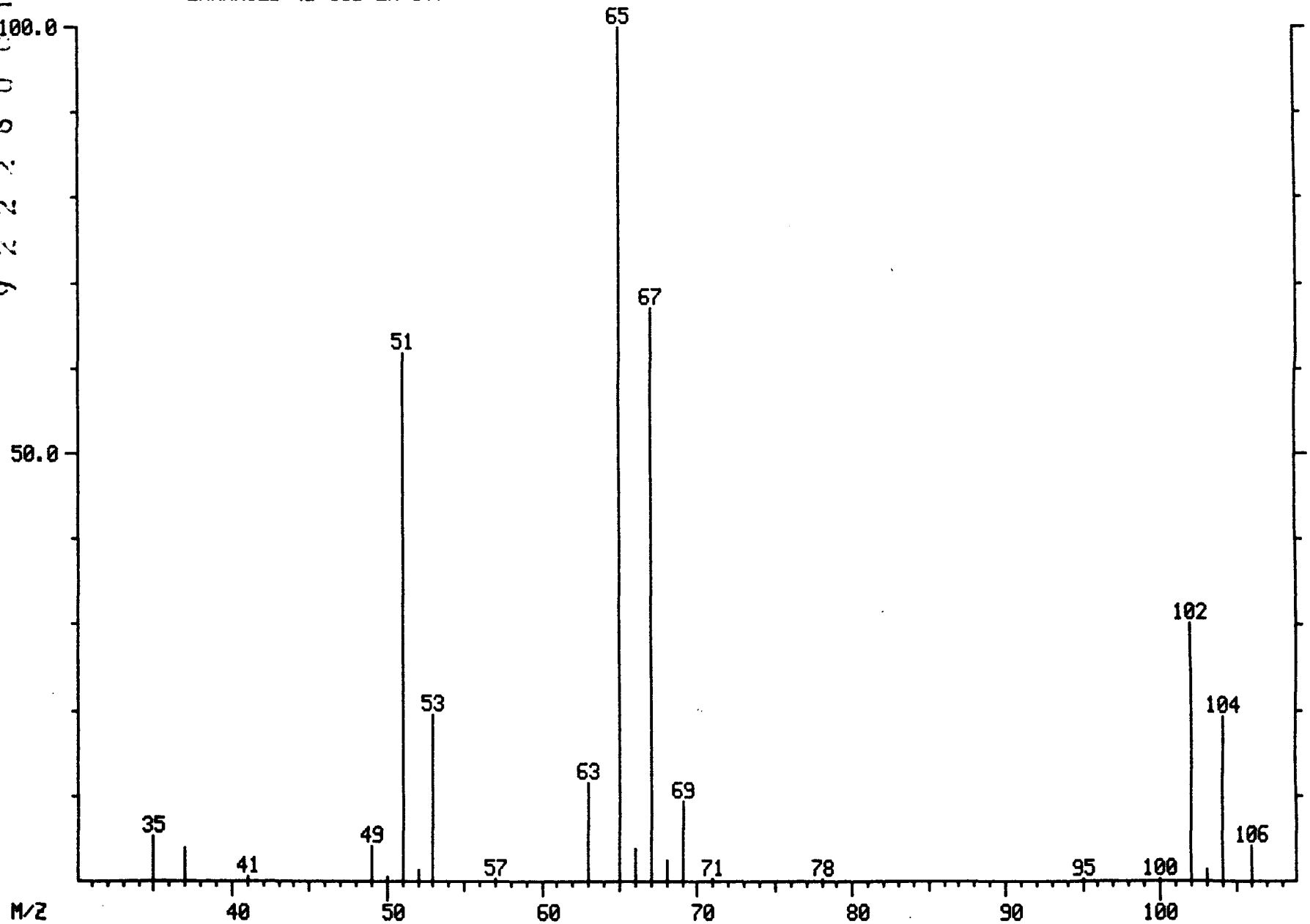


MASS SPECTRUM
03/29/91 13:59:00 + 5:08
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 37 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 #385
CALI: B0329LC08 #3

BASE M/Z: 65
RIC: 5400.

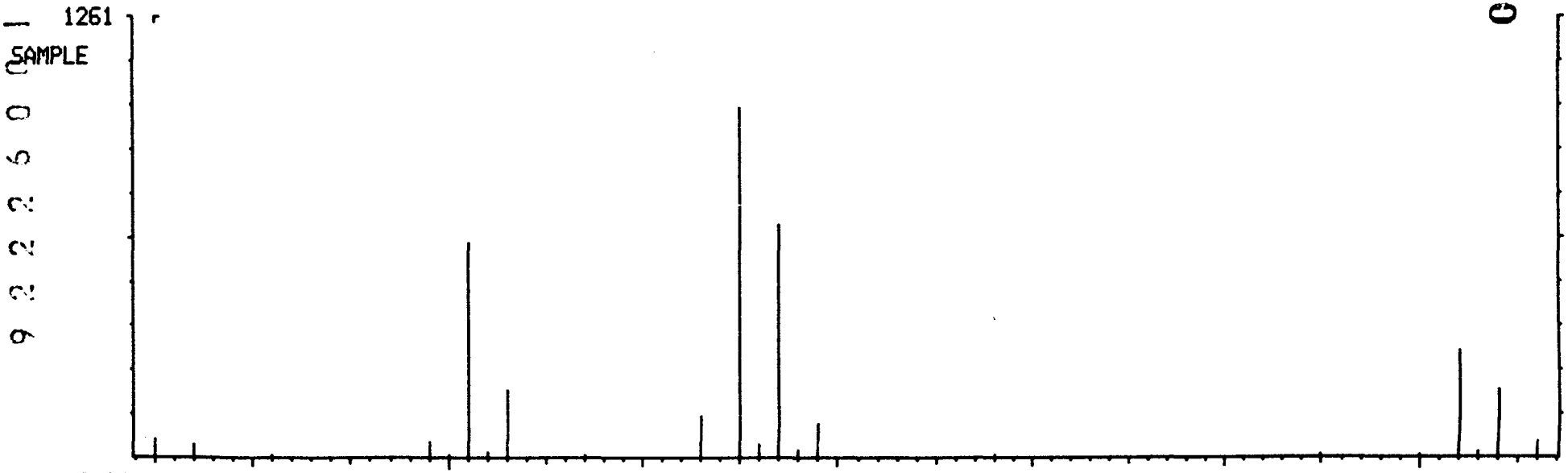
C00616



LIBRARY SEARCH
03/29/91 13:59:00 + 5:08
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

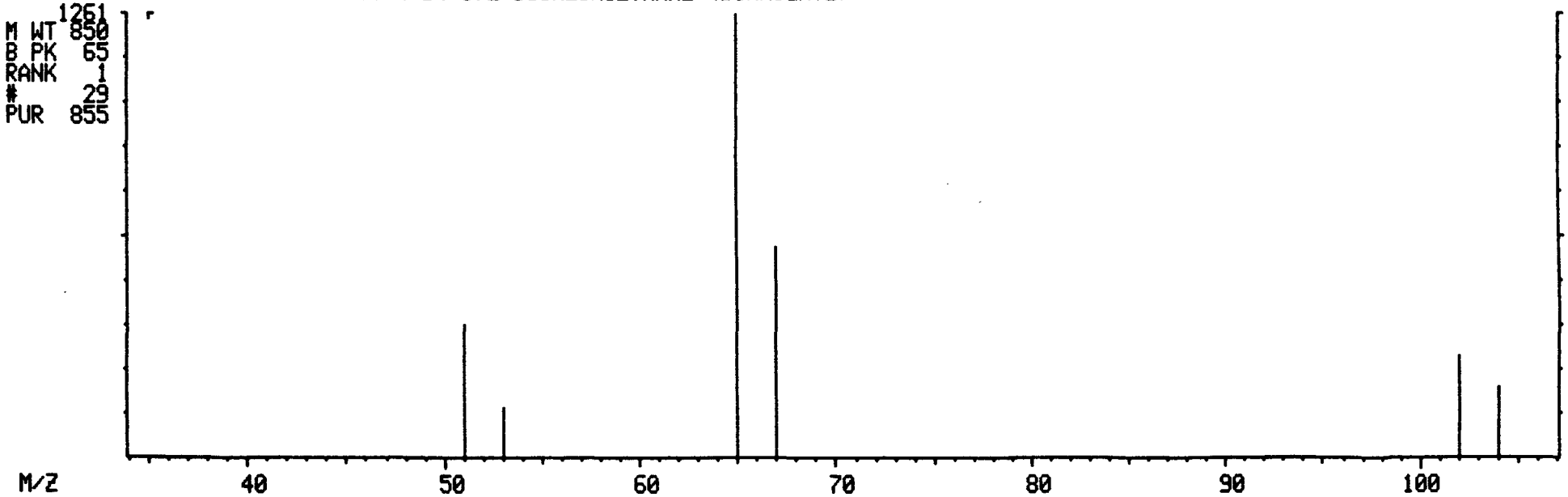
DATA: B0329LC08 # 385
CALI: B0329LC08 # 3

BASE M/Z: 65
RIC: 5399.



C2.CL2.D4 CS15 D4-1,2-DICHLOROETHANE (SURROGATE)

M WT 850
B PK 65
RANK 1
29
PUR 855



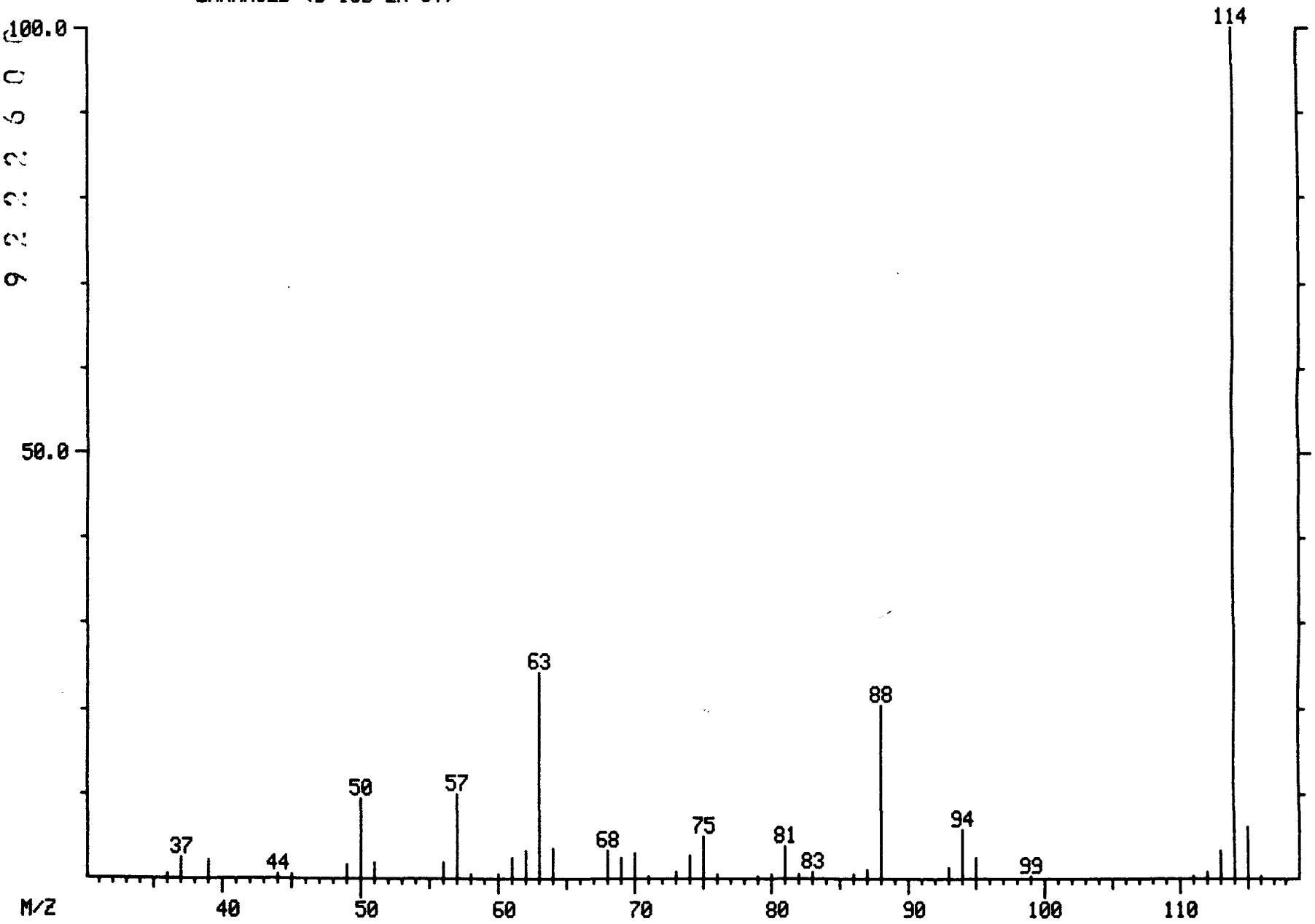
9 2 2 2 6 0 0 1 2 9 3

000617

MASS SPECTRUM
03/29/91 13:59:00 + 6:10
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 37 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 #463
CALI: B0329LC08 #3

BASE M/Z: 114
RIC: 10800.

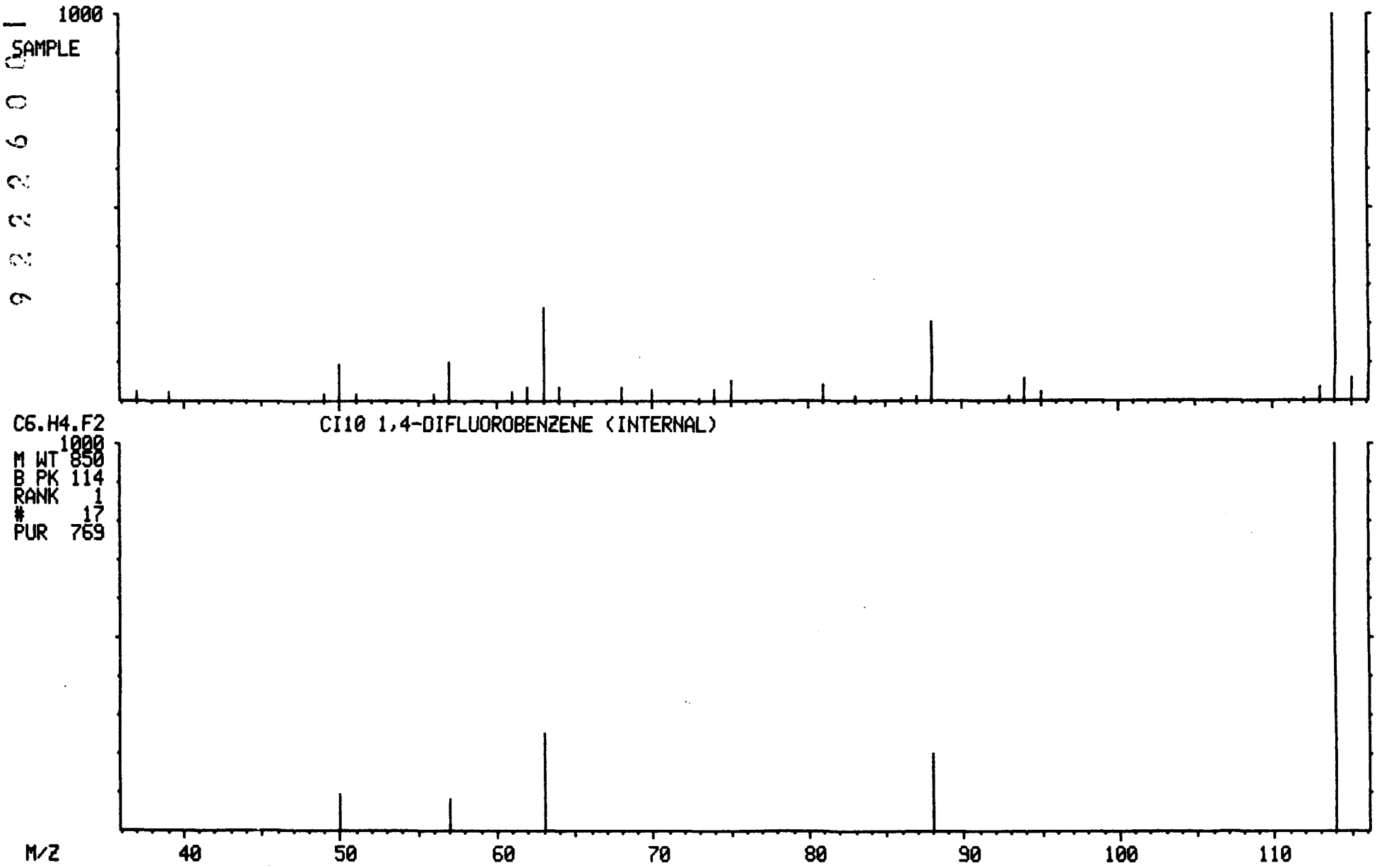


005618

LIBRARY SEARCH
03/29/91 13:59:00 + 6:10
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 # 463
CALI: B0329LC08 # 3

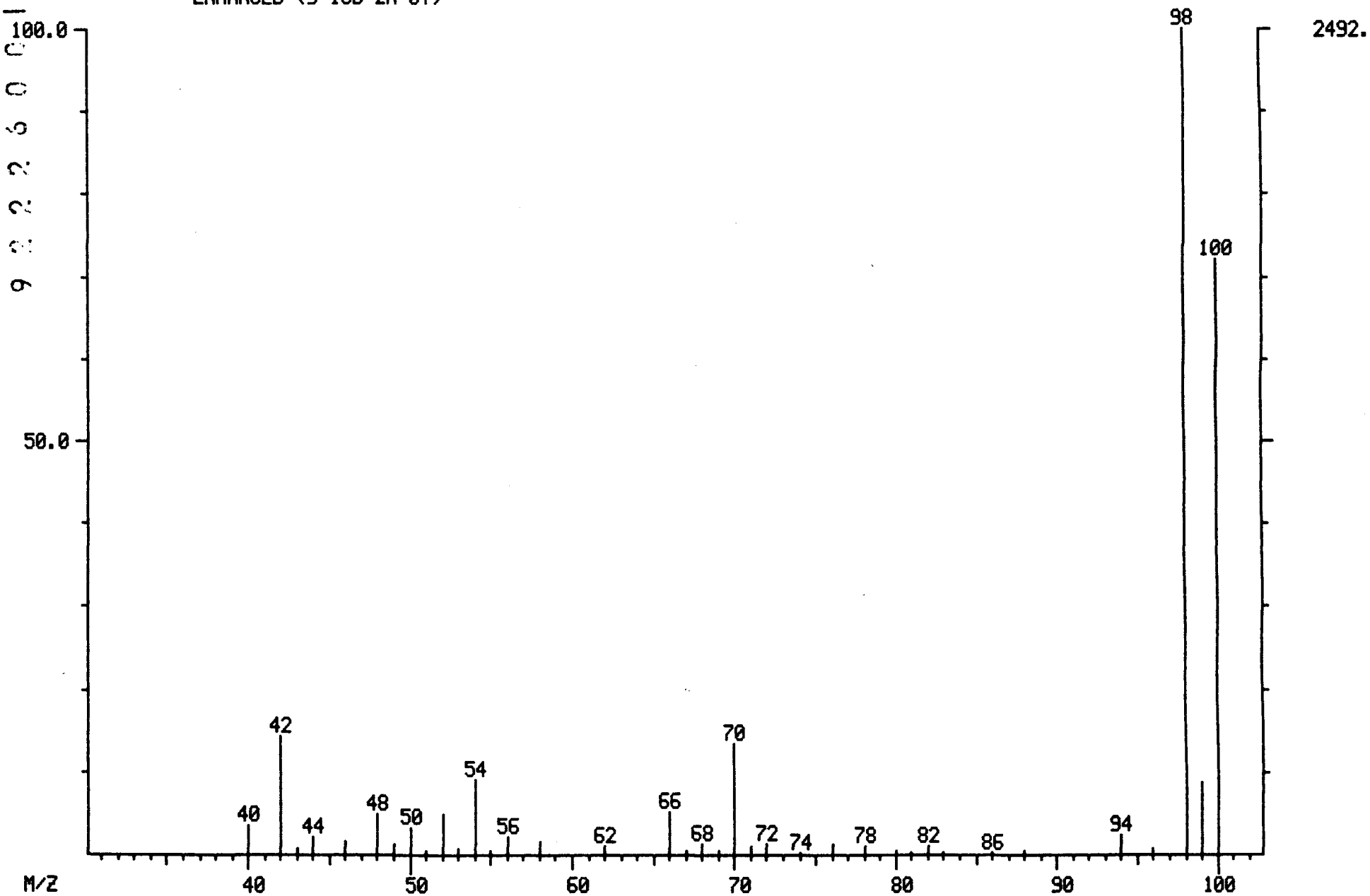
BASE M/Z: 114
RIC: 10399.



MASS SPECTRUM
03/29/91 13:59:00 + 10:50
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 #812
CALI: B0329LC08 #3

BASE M/Z: 98
RIC: 6656.

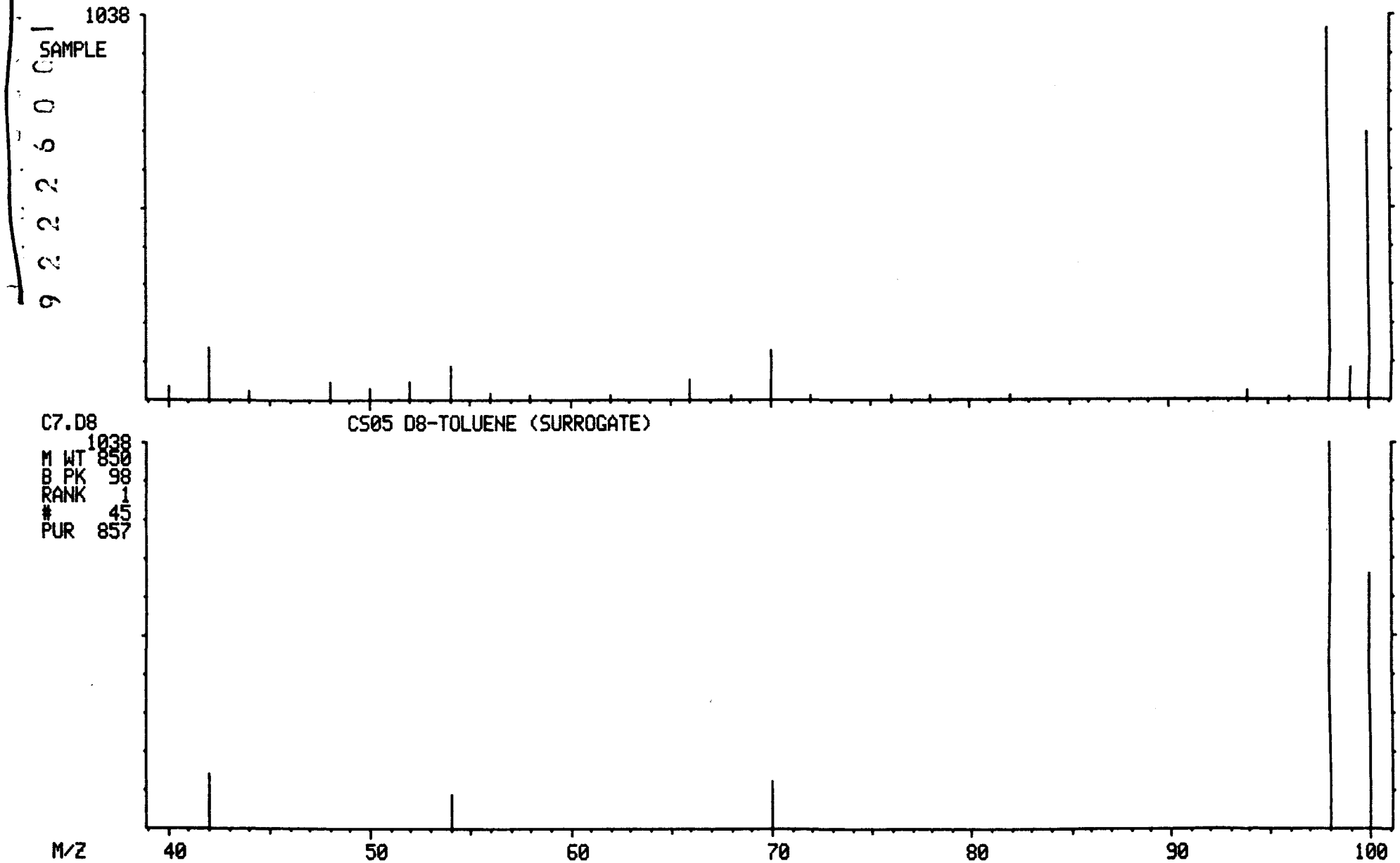


000620

LIBRARY SEARCH
03/29/91 13:59:00 + 10:50
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 # 812
CALI: B0329LC08 # 3

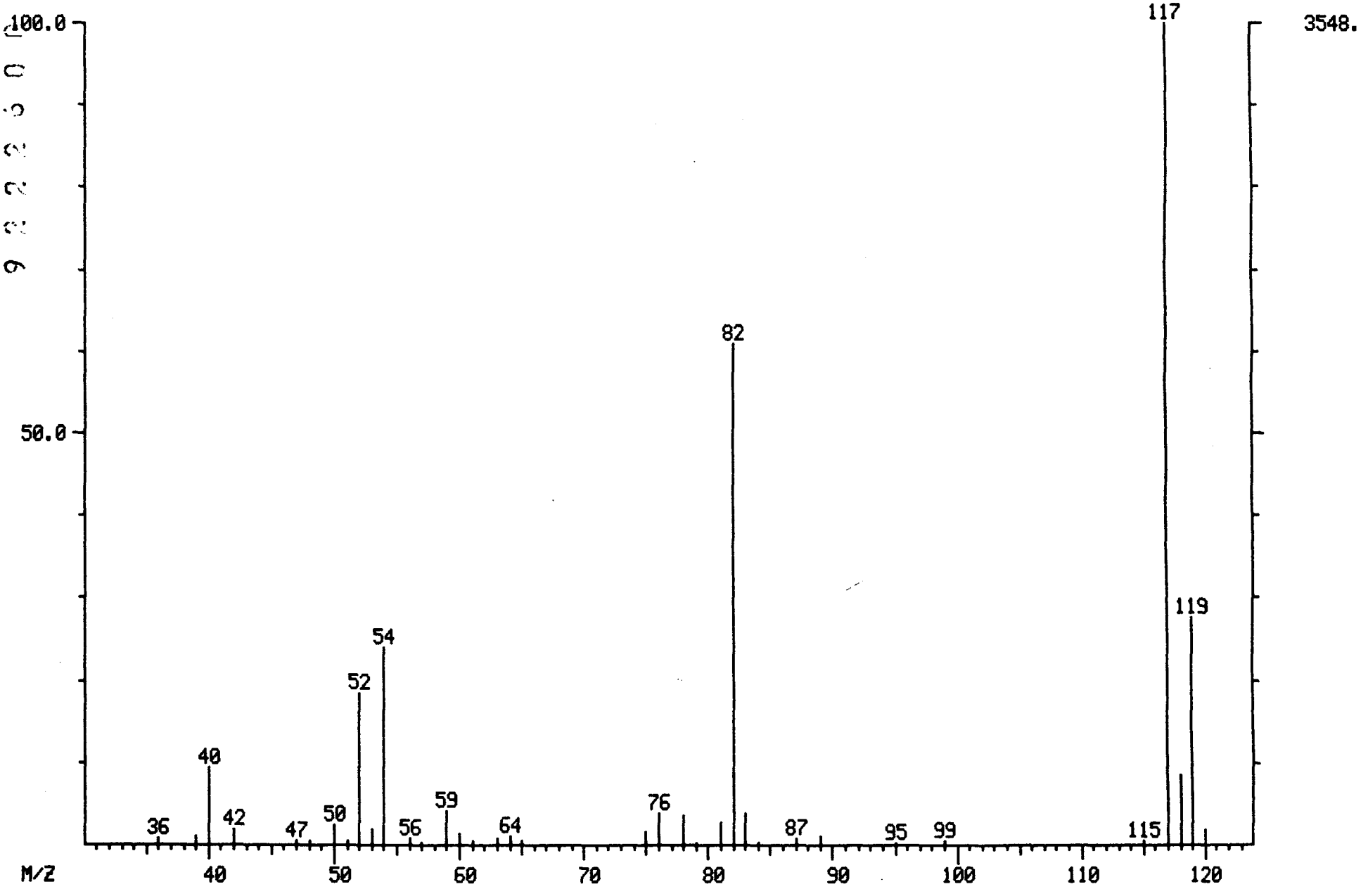
BASE M/Z: 98
RIC: 6399.



MASS SPECTRUM
03/29/91 13:59:00 + 17:20
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 #1300
CALI: B0329LC08 #3

BASE M/Z: 117
RIC: 10304.



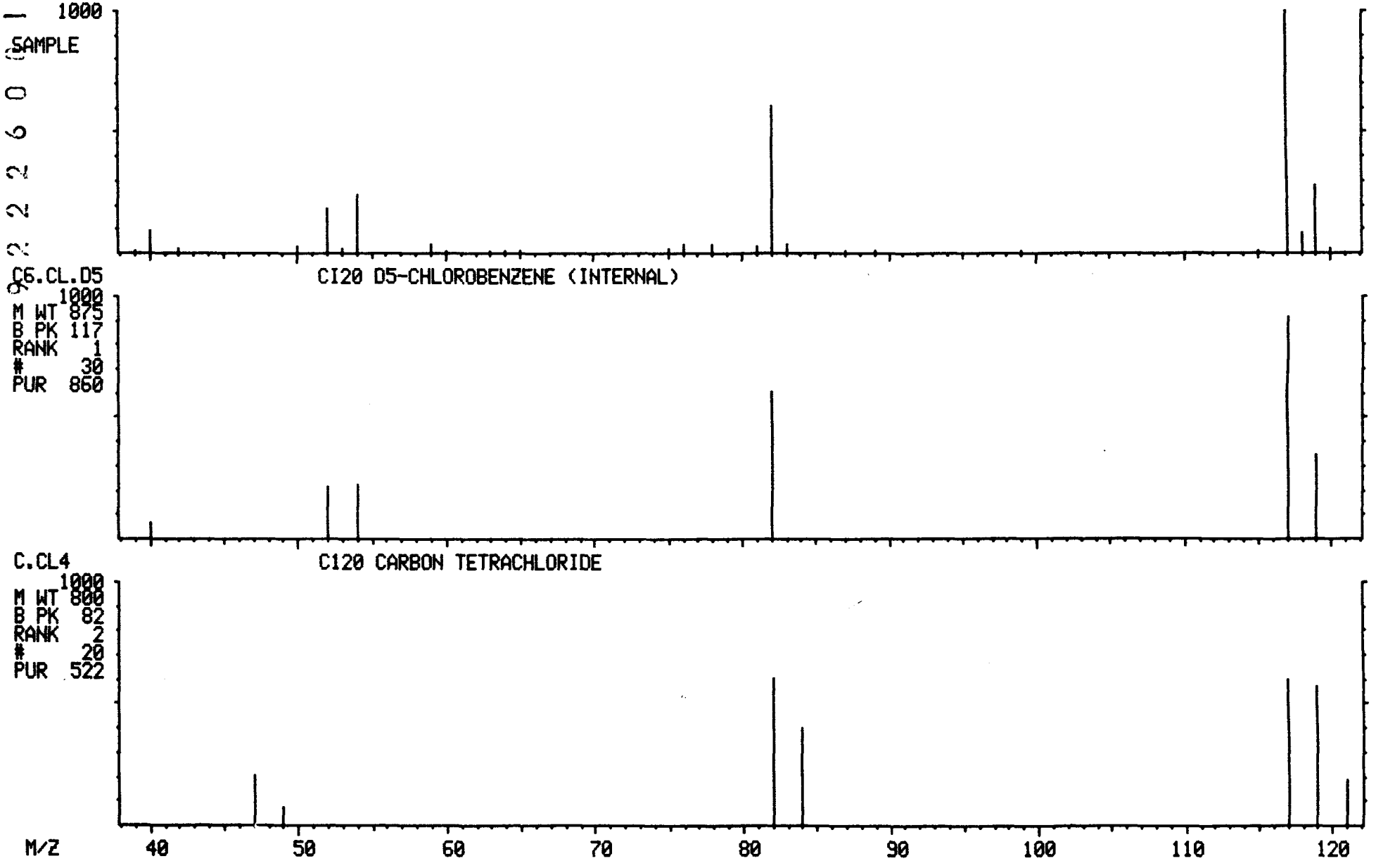
000622

LIBRARY SEARCH
03/29/91 13:59:00 + 17:20
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 #1300
CALI: B0329LC08 # 3

BASE M/Z: 117
RIC: 10127.

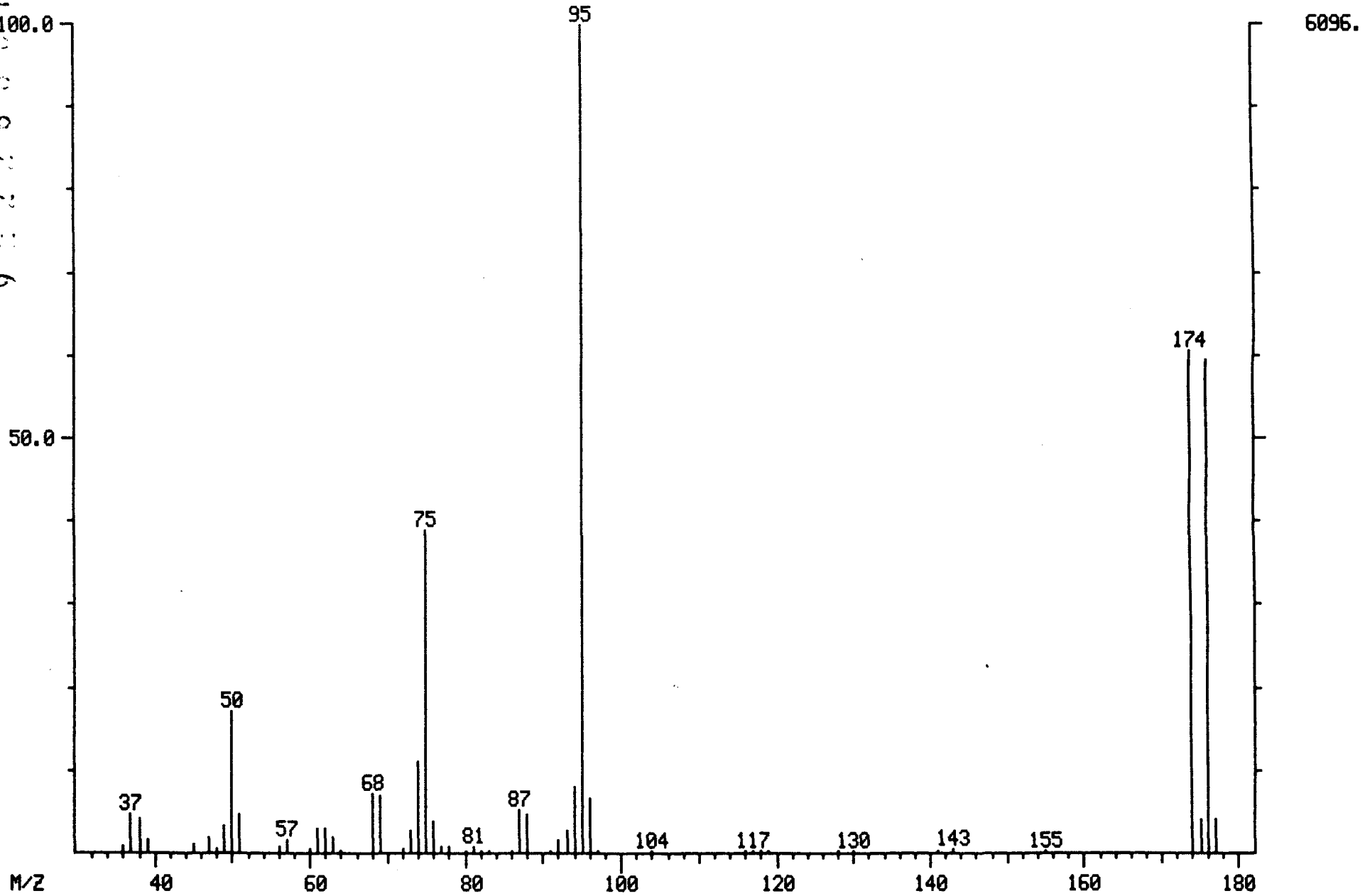
000623



MASS SPECTRUM
03/29/91 13:59:00 + 21:54
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 #1643
CALI: B0329LC08 #3

BASE M/Z: 95
RIC: 23616.

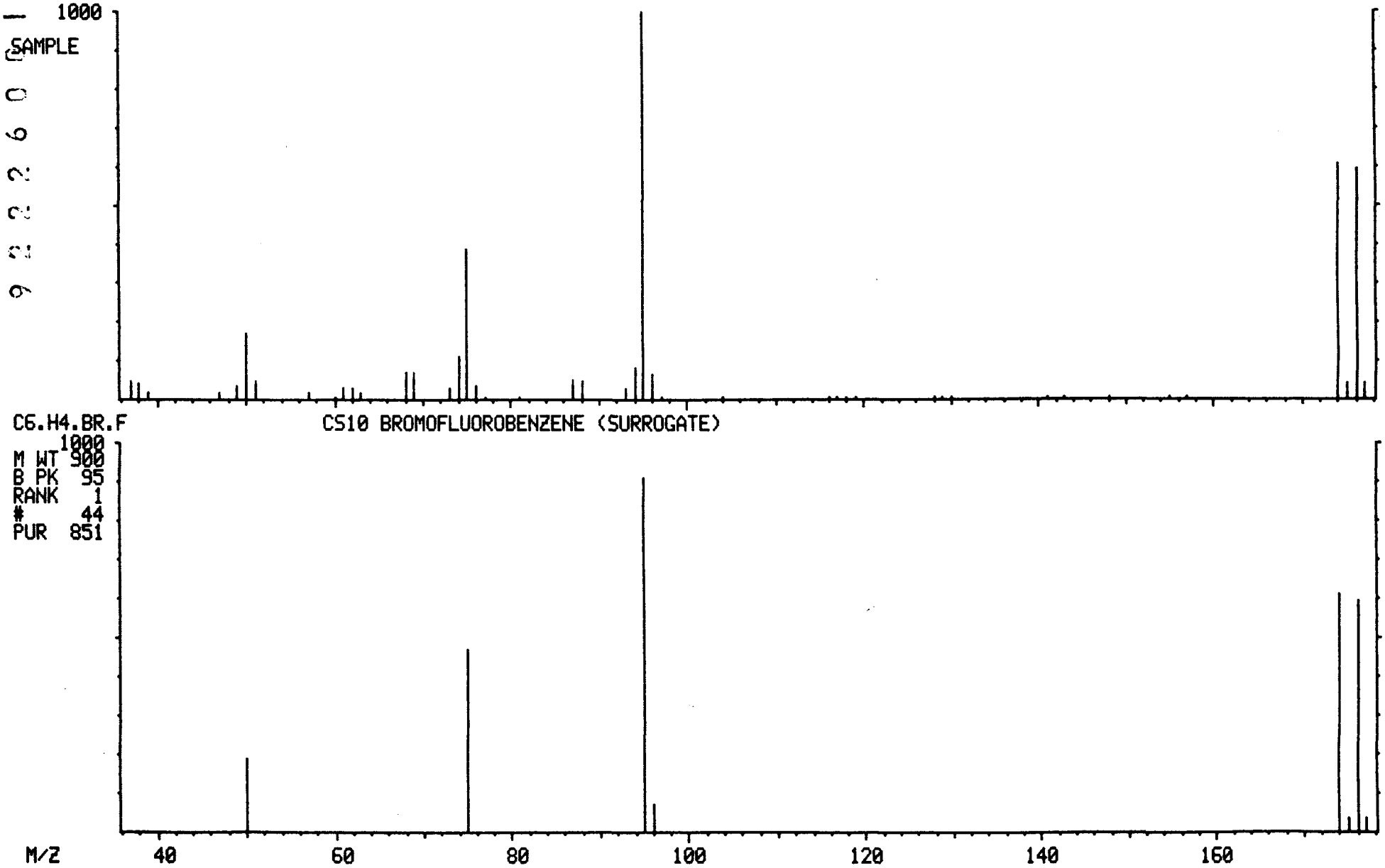


000624

LIBRARY SEARCH
03/29/91 13:59:00 + 21:54
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 #1643
CALI: B0329LC08 # 3

BASE M/Z: 95
RIC: 23135.

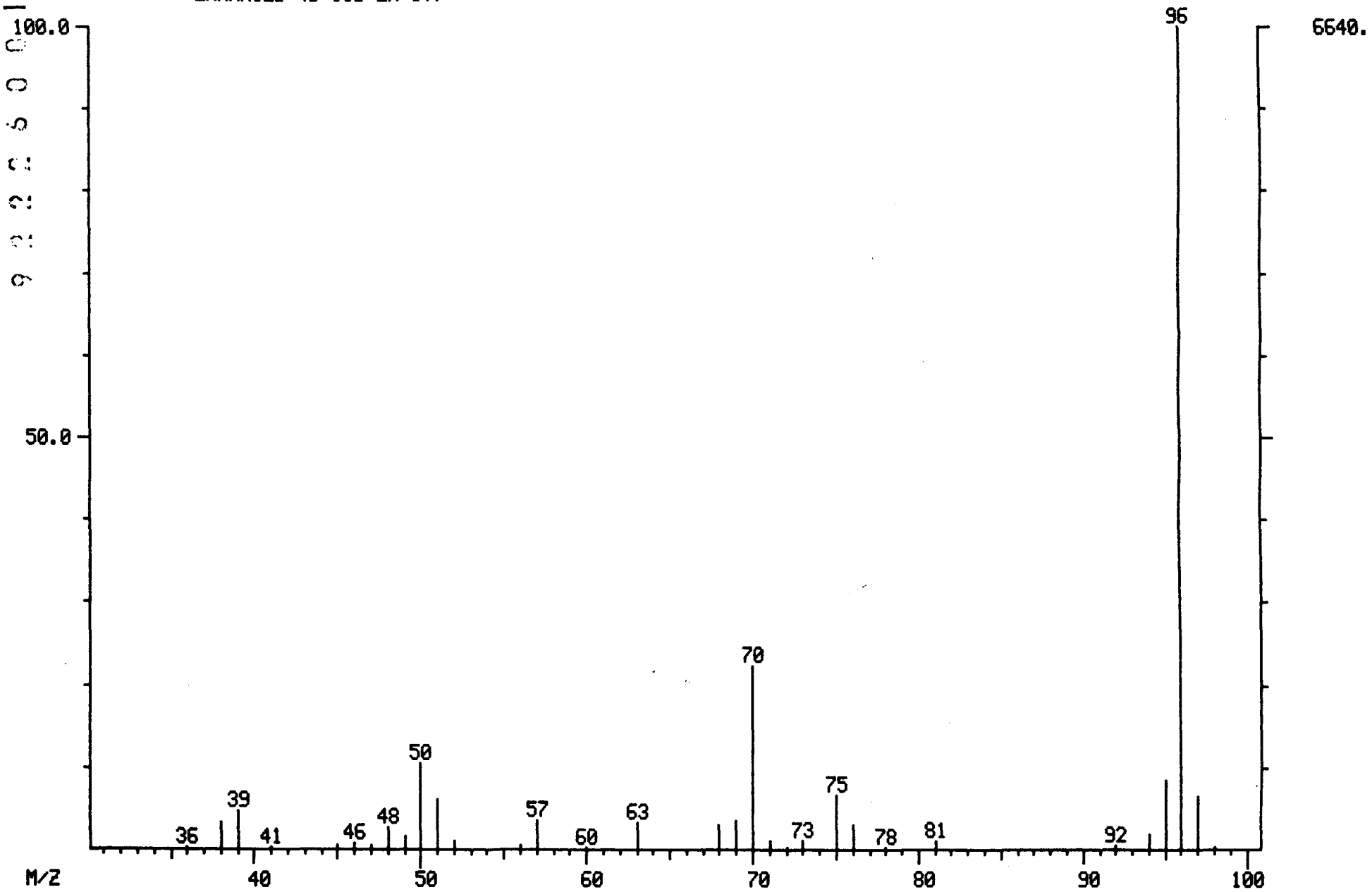


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
03/29/91 13:59:00 + 5:48
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 37 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 #435
CALI: B0329LC08 #3

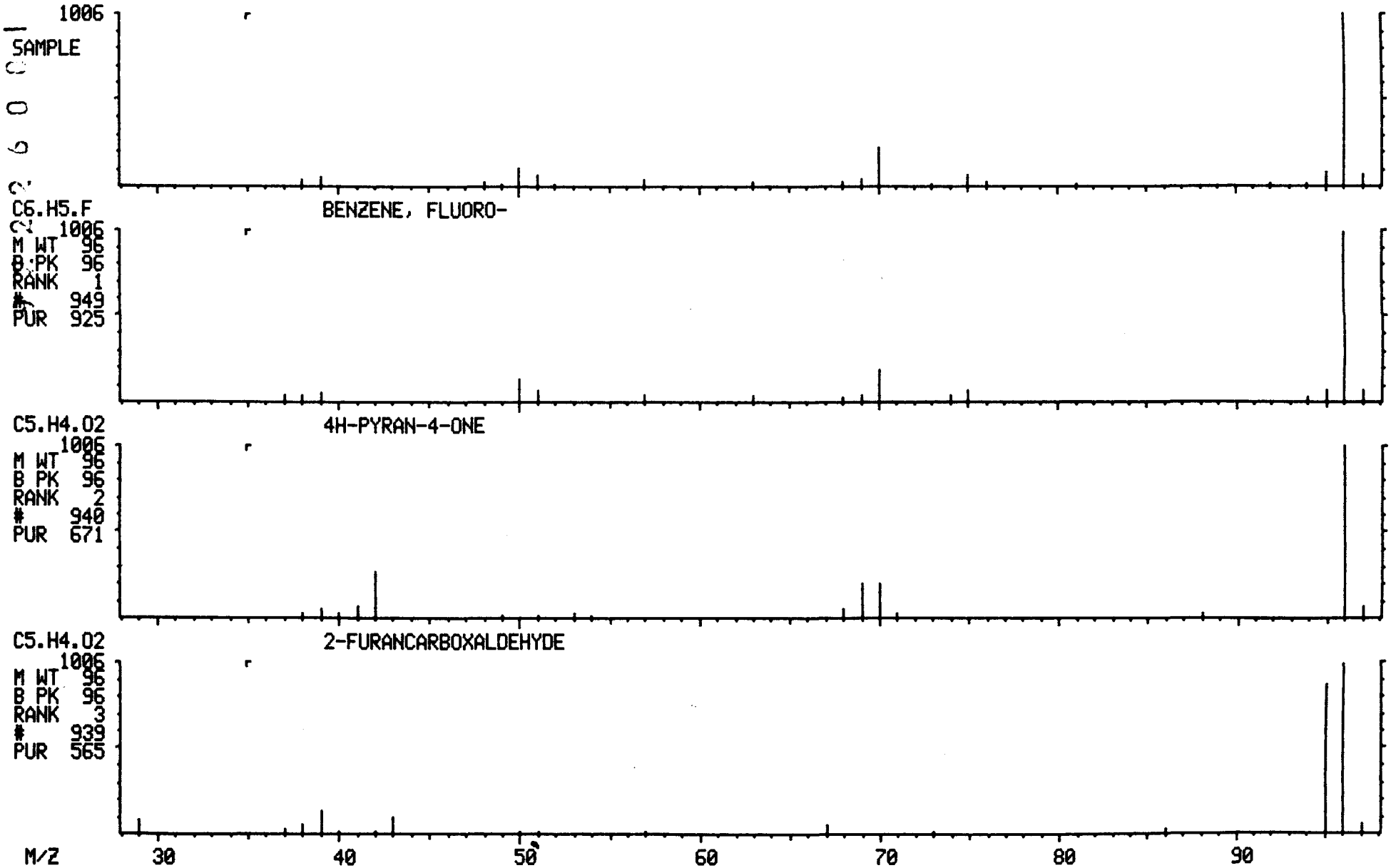
BASE M/Z: 96
RIC: 13376.



LIBRARY SEARCH
03/29/91 13:59:00 + 5:48
SAMPLE: 90912, 5.0G/ 5ML H2O+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC08 # 435
CALI: B0329LC08 # 3

BASE M/Z: 96
RIC: 13023.



6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Instrument ID: 5100 Calibration Date(s): 04/01/91 04/01/91

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

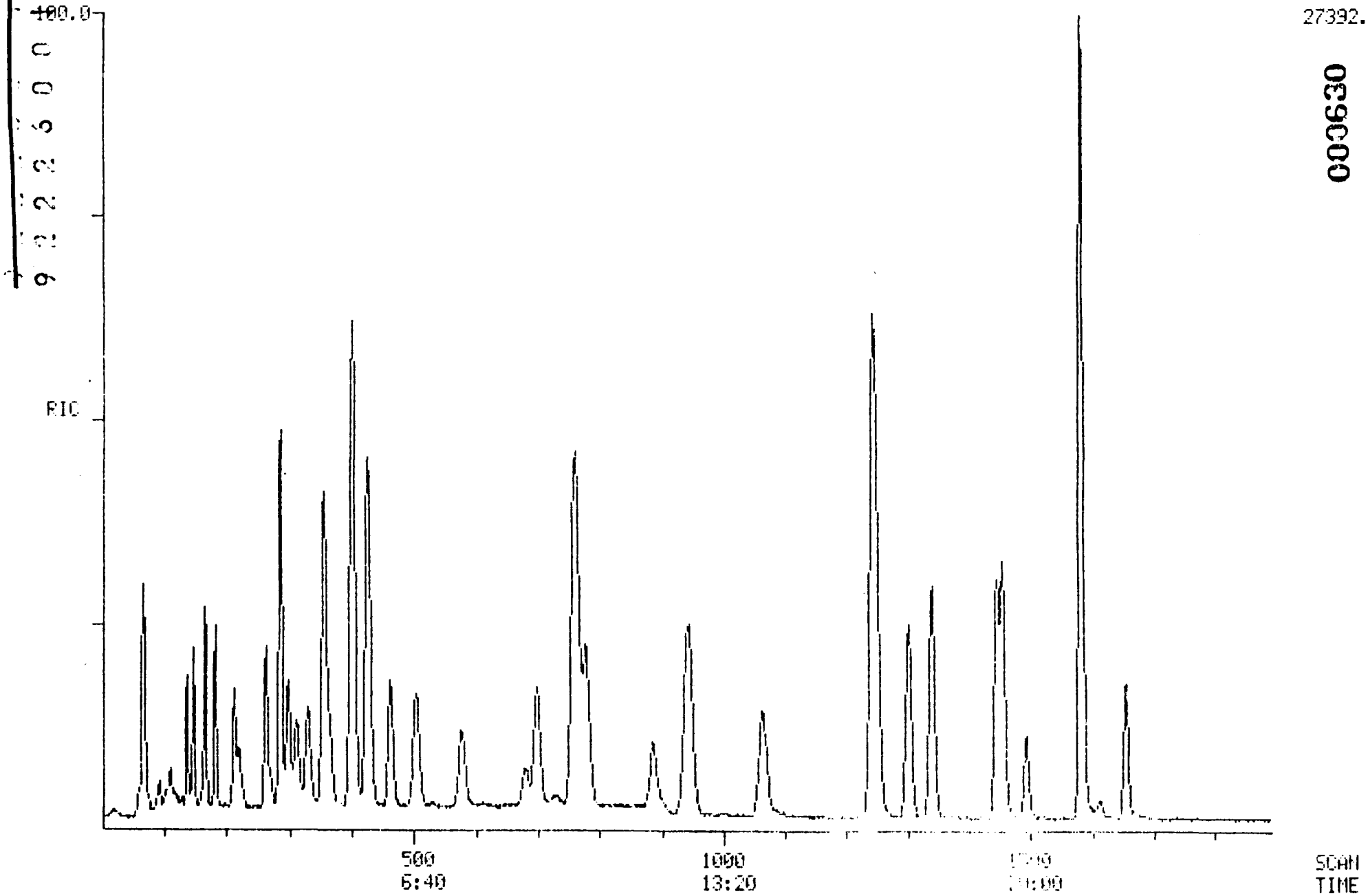
Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = A0401BK03 RRF50 = A0401BK04
RRF100= A0401BK05 RRF150= A0401BK06 RRF200= A0401BK09

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.458	0.399	0.456	0.391	0.357	0.412	10.6#
Bromomethane	0.514	0.367	0.326	0.293	0.284	0.357	26.2
Vinyl Chloride *	0.593	0.534	0.580	0.532	0.529	0.554	5.5*
Chloroethane	0.311	0.253	0.211	0.187	0.185	0.229	23.2
Methylene Chloride	1.443	1.503	1.526	1.398	1.222	1.418	8.5
Acetone	0.463	0.431	0.384	0.288	0.231	0.359	27.2
Carbon Disulfide	4.065	4.169	4.157	3.048	2.671	3.622	19.6
1,1-Dichloroethene *	0.884	0.988	0.961	0.777	0.661	0.854	15.9*
1,1-Dichloroethane #	3.069	3.508	3.651	3.697	3.685	3.522	7.5#
1,2-Dichloroethene (total)	1.280	1.430	1.466	1.446	1.397	1.404	5.2
Chloroform *	2.843	3.065	3.269	3.234	3.293	3.141	6.0*
1,2-Dichloroethane	0.400	0.441	0.456	0.453	0.466	0.443	5.8
2-Butanone	0.053	0.035	0.037	0.031	0.034	0.038	22.8
1,1,1-Trichloroethane	1.858	2.051	2.033	2.116	2.079	2.027	4.9
Carbon Tetrachloride	0.337	0.370	0.402	0.391	0.408	0.382	7.5
Vinyl Acetate	0.549	0.551	0.797	0.767	0.513	0.635	21.3
Bromodichloromethane	0.514	0.596	0.636	0.648	0.673	0.613	10.1
1,2-Dichloropropane *	0.525	0.573	0.613	0.600	0.619	0.586	6.6*
cis-1,3-Dichloropropene	0.308	0.333	0.375	0.372	0.313	0.340	9.4
Trichloroethene	0.372	0.413	0.430	0.426	0.441	0.416	6.4
Dibromochloromethane	0.388	0.482	0.541	0.528	0.547	0.497	13.3
1,1,2-Trichloroethane	0.302	0.318	0.327	0.332	0.329	0.322	3.8
Benzene	0.988	1.068	1.131	1.125	1.152	1.093	6.1
trans-1,3-Dichloropropene	0.851	0.909	0.986	1.002	0.971	0.944	6.6
Bromoform #	0.374	0.429	0.462	0.450	0.494	0.442	10.1#
4-Methyl-2-Pentanone	0.415	0.416	0.429	0.413	0.413	0.417	1.6
2-Hexanone	0.368	0.369	0.397	0.363	0.354	0.370	4.4
Tetrachloroethene	0.370	0.408	0.438	0.443	0.419	0.416	7.0
1,1,2,2-Tetrachloroethane #	0.644	0.626	0.666	0.668	0.703	0.661	4.4#
Toluene *	0.979	1.012	1.137	1.111	1.102	1.068	6.4*
Chlorobenzene #	0.864	0.955	1.039	1.041	1.039	0.988	7.9#
Ethylbenzene *	0.402	0.451	0.482	0.478	0.474	0.457	7.3*
Styrene	0.940	0.950	1.057	1.022	0.972	0.988	5.0
Xylene (total)	0.555	0.558	0.622	0.590	0.570	0.579	4.8
Toluene-d8	0.543	0.515	0.532	0.539	0.518	0.529	2.4
Bromofluorobenzene	0.541	0.504	0.546	0.547	0.521	0.532	3.5
1,2-Dichloroethane-d4	0.186	0.189	0.202	0.196	0.184	0.191	3.9

RIC
04/01/91 13:41:00
SAMPLE: 20PPB STD
CONDS.: LC, DB-624
RANGE: G 1,1892 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

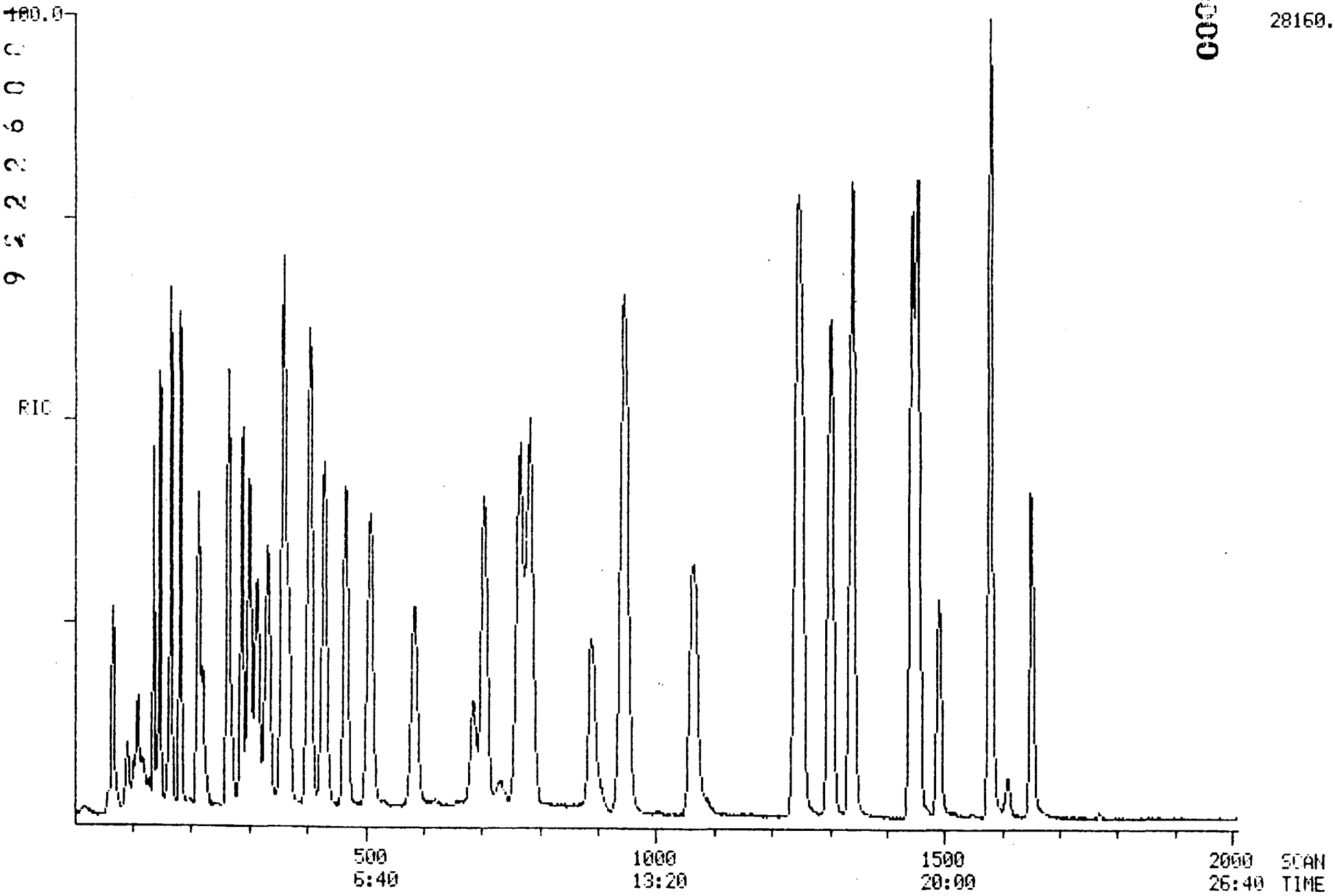
DATA: A0401BK03 #1 SCANS 1 TO 1892
CALI: A0401BK03 #3



000630

RIC
04/01/91 14:17:00
SAMPLE: 50PPB STD
CONDS.: LC, DB-624
RANGE: G 1,2009 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0401BK04 #1 SCANS 1 TO 2009
CALI: A0401BK04 #3



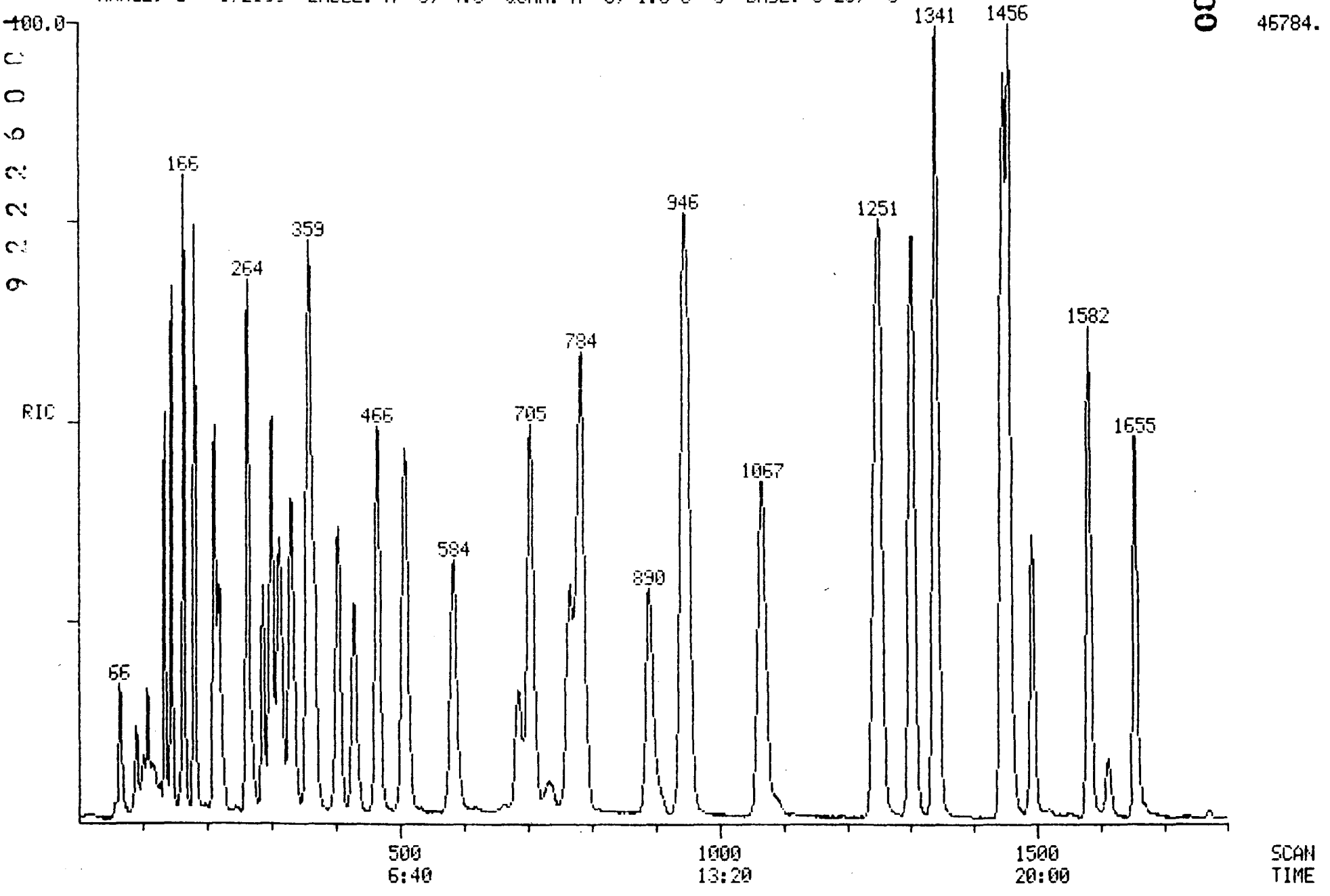
922260037
139000

RIC
04/01/91 14:56:00
SAMPLE: 100PPB STD
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0401BK05 #1 SCANS 1 TO 1800
CALI: A0401BK05 #3

000632

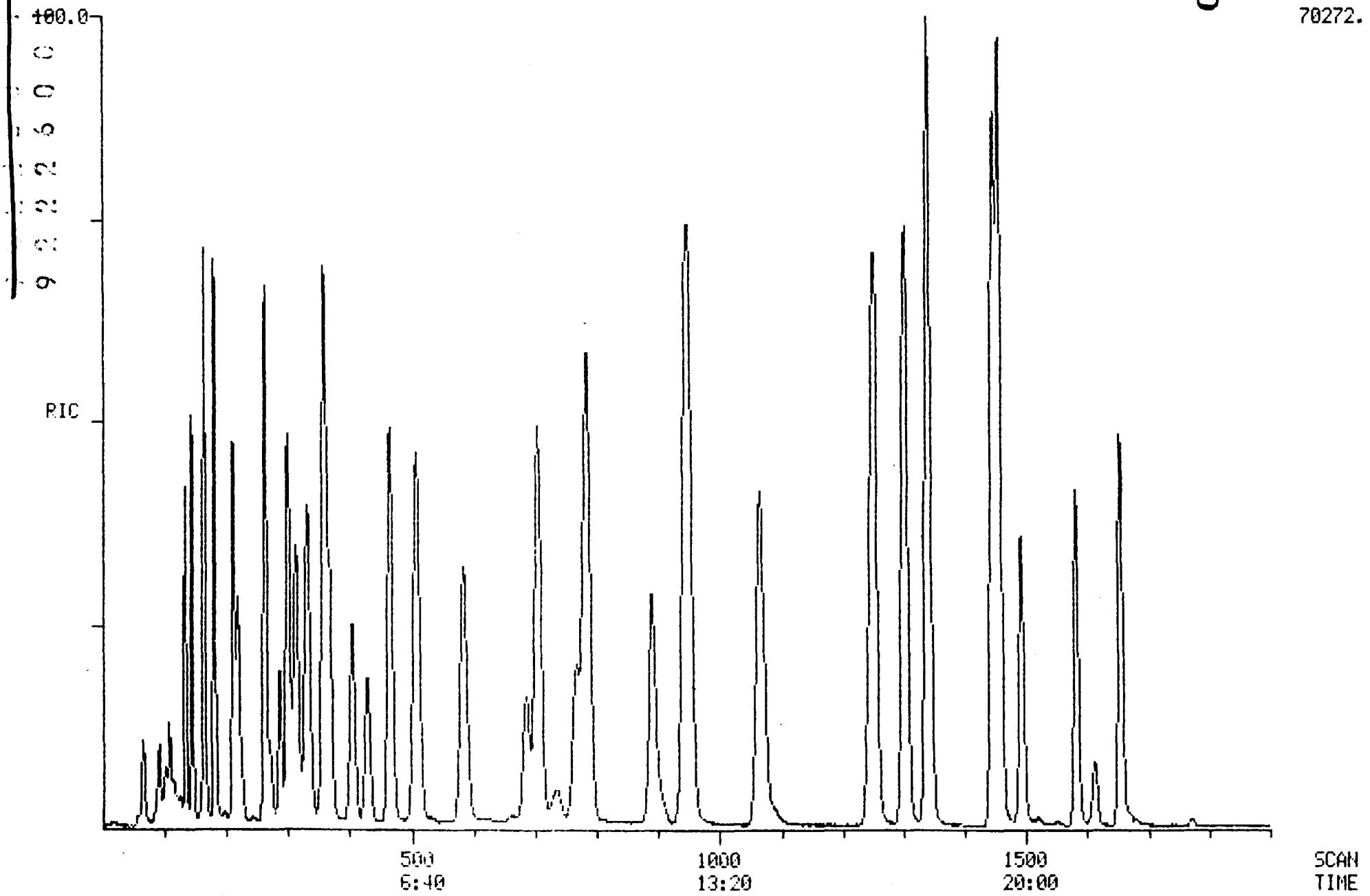
46784.



RIC
04/01/91 15:34:00
SAMPLE: 150PPB STD
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0401BK06 #1 SCANS 1 TO 1900
CALI: A0401BK06 #3

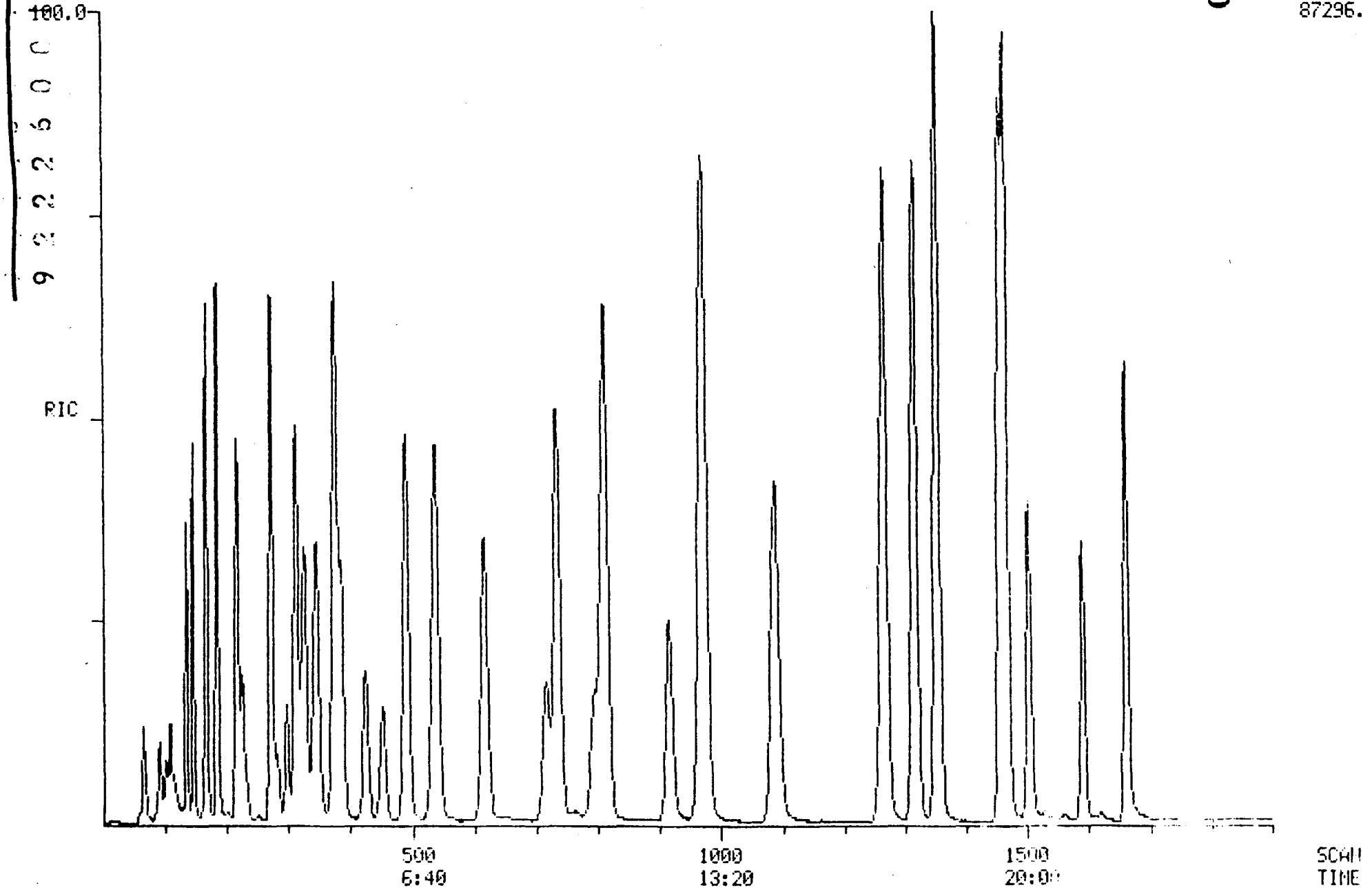
000633



RIC
04/01/91 17:22:00
SAMPLE: 200PPB STD
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0401BK09 #1 SCANS 1 TO 1900
CALI: A0401BK09 #3

000634



Quantitation Report File: A0401BK03

Data: A0401BK03 TI
04/01/91 13:41:00
Sample: 20PPB STD
Conds : LO. DS-524
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	C101 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	C110 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C155 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	C915 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C120 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	C910 BROMOFLUOROBENZENE (SURROGATE)
44	C905 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	287	3:50	1	1.000	A BB	8365.	50.000	UG/L	4.11
2	50	92	1:14	1	0.321	A BB	1533.	20.000	UG/L	1.64
3	94	105	1:24	1	0.366	A BB	1718.	20.000	UG/L	1.64
4	62	92	1:14	1	0.321	A BB	1985.	20.000	UG/L	1.64
5	64	103	1:22	1	0.359	A*VB	1040.	20.000	UG/L	1.64
6	84	166	2:13	1	0.578	A BB	4827.	20.000	UG/L	1.64
7	43	144	1:55	1	0.502	A BB	1550.	20.000	UG/L	1.64
8	76	148	1:58	1	0.516	A BB	13601.	20.000	UG/L	1.64
9	96	137	1:50	1	0.477	A BB	2956.	20.000	UG/L	1.64
10	63	213	2:50	1	0.742	A BB	10269.	20.000	UG/L	1.64
11	83	299	3:59	1	1.042	A BB	9514.	20.000	UG/L	1.64
12	97	312	4:10	1	1.087	A BB	6217.	20.000	UG/L	1.64
13	101	110	1:28	1	0.383	A BV	1665.	20.000	UG/L	1.64
14	96	182	2:26	1	0.634	A BB	4282.	20.000	UG/L	1.64
15	96	263	3:30	1	0.916	A BB	5602.	23.480	UG/L	1.93
16	114	426	5:41	16	1.000	A BB	39270.	50.000	UG/L	4.11
17	62	366	4:53	16	0.859	A BB	6283.	20.000	UG/L	1.64
18	72	270	3:36	16	0.634	A BB	829.	20.000	UG/L	1.64
19	117	331	4:25	16	0.777	A BB	5292.	20.000	UG/L	1.64
20	43	220	2:56	16	0.516	A BB	8621.	20.000	UG/L	1.64
21	83	578	7:42	16	1.357	A BB	8070.	20.000	UG/L	1.64
22	63	505	6:44	16	1.185	A BB	8240.	20.000	UG/L	1.64
23	75	886	11:49	16	2.080	A BB	5813.	24.000	UG/L	1.97
24	130	463	6:10	16	1.087	A BB	5838.	20.000	UG/L	1.64
25	78	358	4:46	16	0.840	A BB	15525.	20.000	UG/L	1.64
26	106	679	9:03	16	1.594	A BB	688.	20.000	UG/L	1.64
27	65	355	4:44	16	0.833	A BB	14624.	100.000	%	8.21
28	117	1242	16:34	28	1.000	A BB	42594.	50.000	UG/L	4.11
29	129	1062	14:10	28	0.855	A BB	6614.	20.000	UG/L	1.64
30	97	939	12:31	28	0.756	A BB	5153.	20.000	UG/L	1.64
31	75	700	9:20	28	0.564	A BB	11597.	16.000	UG/L	1.31
32	43	1068	14:14	28	0.860	A BB	6275.	20.000	UG/L	1.64
33	43	771	10:17	28	0.621	A BB	7079.	20.000	UG/L	1.64
34	164	945	12:36	28	0.761	A BB	6306.	20.000	UG/L	1.64
35	83	1654	22:03	28	1.332	A BB	10977.	20.000	UG/L	1.64
36	91	779	10:23	28	0.627	A BB	16679.	20.000	UG/L	1.64
37	112	1250	16:40	28	1.006	A BB	14727.	20.000	UG/L	1.64
38	106	1301	17:21	28	1.048	A BB	6851.	20.000	UG/L	1.64
39	104	1455	19:24	28	1.171	A BB	16009.	20.000	UG/L	1.64
40	106	1340	17:52	28	1.079	A BB	10224.	24.240	UG/L	1.99
41	106	1446	19:17	28	1.164	A BB	9455.	20.000	UG/L	1.64
42	173	1493	19:54	16	3.505	A BB	5877.	20.000	UG/L	1.64
43	95	1582	21:06	28	1.274	A BB	46061.	100.000	%	8.21
44	93	761	10:09	28	0.613	A BB	46289.	100.000	%	8.21

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:50	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:14	1.00	0.321	1.00	20.00	20.00	0.458	0.458	1.00
3	1:24	1.00	0.366	1.00	20.00	20.00	0.514	0.514	1.00
4	1:14	1.00	0.321	1.00	20.00	20.00	0.593	0.593	1.00
5	1:22	1.00	0.359	1.00	20.00	20.00	0.311	0.311	1.00
6	2:13	1.00	0.578	1.00	20.00	20.00	1.443	1.443	1.00
7	1:55	1.00	0.502	1.00	20.00	20.00	0.463	0.463	1.00
8	1:58	1.00	0.516	1.00	20.00	20.00	4.065	4.065	1.00
9	1:50	1.00	0.477	1.00	20.00	20.00	0.884	0.884	1.00
10	2:50	1.00	0.742	1.00	20.00	20.00	3.069	3.069	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	3:59	1.00	1.042	1.00	20.00	20.00	2.843	2.843	1.00
12	4:10	1.00	1.087	1.00	20.00	20.00	1.858	1.858	1.00
13	1:28	1.00	0.383	1.00	20.00	20.00	0.498	0.498	1.00
14	2:26	1.00	0.634	1.00	20.00	20.00	1.280	1.280	1.00
15	3:30	1.00	0.916	1.00	23.48	23.48	1.426	1.426	1.00
16	5:41	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	4:53	1.00	0.859	1.00	20.00	20.00	0.400	0.400	1.00
18	3:36	1.00	0.634	1.00	20.00	20.00	0.053	0.053	1.00
19	4:25	1.00	0.777	1.00	20.00	20.00	0.337	0.337	1.00
20	2:56	1.00	0.516	1.00	20.00	20.00	0.549	0.549	1.00
21	7:42	1.00	1.357	1.00	20.00	20.00	0.514	0.514	1.00
22	6:44	1.00	1.185	1.00	20.00	20.00	0.525	0.525	1.00
23	11:49	1.00	2.080	1.00	24.00	24.00	0.308	0.308	1.00
24	6:10	1.00	1.087	1.00	20.00	20.00	0.372	0.372	1.00
25	4:46	1.00	0.840	1.00	20.00	20.00	0.988	0.988	1.00
26	9:03	1.00	1.594	1.00	20.00	20.00	0.044	0.044	1.00
27	4:44	1.00	0.833	1.00	100.00	100.00	0.186	0.186	1.00
28	16:24	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
29	14:10	1.00	0.855	1.00	20.00	20.00	0.388	0.388	1.00
30	12:31	1.00	0.756	1.00	20.00	20.00	0.302	0.302	1.00
31	9:20	1.00	0.564	1.00	16.00	16.00	0.851	0.851	1.00
32	14:14	1.00	0.860	1.00	20.00	20.00	0.368	0.368	1.00
33	10:17	1.00	0.621	1.00	20.00	20.00	0.415	0.415	1.00
34	12:36	1.00	0.761	1.00	20.00	20.00	0.370	0.370	1.00
35	22:03	1.00	1.332	1.00	20.00	20.00	0.644	0.644	1.00
36	10:23	1.00	0.627	1.00	20.00	20.00	0.979	0.979	1.00
37	16:40	1.00	1.006	1.00	20.00	20.00	0.864	0.864	1.00
38	17:21	1.00	1.048	1.00	20.00	20.00	0.402	0.402	1.00
39	19:24	1.00	1.171	1.00	20.00	20.00	0.940	0.940	1.00
40	17:52	1.00	1.079	1.00	24.24	24.24	0.495	0.495	1.00
41	19:17	1.00	1.164	1.00	20.00	20.00	0.555	0.555	1.00
42	19:54	1.00	3.505	1.00	20.00	20.00	0.374	0.374	1.00
43	21:06	1.00	1.274	1.00	100.00	100.00	0.541	0.541	1.00
44	10:09	1.00	0.613	1.00	100.00	100.00	0.543	0.543	1.00

Quantitation Report File: A0401BK04

Data: A0401BK04.TI
04/01/91 14:17:00
Sample: 50PPB STD
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	288	3:50	1	1.000	A BB	8747.	50.000	UG/L	2.11
2	50	91	1:13	1	0.316	A BB	3487.	50.000	UG/L	2.11
3	94	105	1:24	1	0.365	A BB	3208.	50.000	UG/L	2.11
4	62	93	1:14	1	0.323	A BB	4672.	50.000	UG/L	2.11
5	64	103	1:22	1	0.358	A VB	2216.	50.000	UG/L	2.11
6	84	166	2:13	1	0.576	A BB	13150.	50.000	UG/L	2.11
7	43	143	1:54	1	0.497	A BB	3772.	50.000	UG/L	2.11
8	76	147	1:58	1	0.510	A BB	36464.	50.000	UG/L	2.11
9	96	137	1:50	1	0.476	A BB	8639.	50.000	UG/L	2.11
10	63	213	2:50	1	0.740	A BB	30686.	50.000	UG/L	2.11
11	83	300	4:00	1	1.042	A BB	26812.	50.000	UG/L	2.11
12	97	314	4:11	1	1.090	A BB	17936.	50.000	UG/L	2.11
13	101	110	1:28	1	0.382	A BV	4833.	50.000	UG/L	2.11
14	96	182	2:26	1	0.632	A BB	12504.	50.000	UG/L	2.11
15	96	264	3:31	1	0.917	A BB	16762.	58.700	UG/L	2.48
16	114	429	5:43	16	1.000	A BB	40454.	50.000	UG/L	2.11
17	62	368	4:54	16	0.858	A BB	17847.	50.000	UG/L	2.11
18	72	272	3:38	16	0.634	A BB	1434.	50.000	UG/L	2.11
19	117	332	4:26	16	0.774	A BB	14985.	50.000	UG/L	2.11
20	43	220	2:56	16	0.513	A BB	22295.	50.000	UG/L	2.11
21	83	585	7:48	16	1.364	A BB	24101.	50.000	UG/L	2.11
22	63	508	6:46	16	1.184	A BB	23177.	50.000	UG/L	2.11
23	75	888	11:50	16	2.070	A BB	16159.	60.000	UG/L	2.53
24	130	466	6:13	16	1.086	A BB	16726.	50.000	UG/L	2.11
25	78	360	4:48	16	0.839	A BB	43222.	50.000	UG/L	2.11
26	106	687	9:10	16	1.601	A BB	1696.	50.000	UG/L	2.11
27	65	357	4:46	16	0.832	A BB	15255.	100.000	%	4.22
28	117	1243	16:34	28	1.000	A BB	45166.	50.000	UG/L	2.11
29	129	1063	14:10	28	0.855	A BB	21777.	50.000	UG/L	2.11
30	97	943	12:34	28	0.759	A BB	14352.	50.000	UG/L	2.11
31	75	704	9:23	28	0.566	A BB	32832.	40.000	UG/L	1.69
32	43	1069	14:15	28	0.860	A BB	16663.	50.000	UG/L	2.11
33	43	779	10:23	28	0.627	A BB	18795.	50.000	UG/L	2.11
34	164	949	12:39	28	0.763	A BB	18409.	50.000	UG/L	2.11
35	93	1652	22.02	28	1.329	A BB	28291.	50.000	UG/L	2.11
36	91	784	10:27	28	0.631	A BB	45689.	50.000	UG/L	2.11
37	112	1252	16:42	28	1.007	A BB	43112.	50.000	UG/L	2.11
38	106	1302	17:22	28	1.047	A BB	20359.	50.000	UG/L	2.11
39	104	1455	19:24	28	1.171	A BB	42902.	50.000	UG/L	2.11
40	106	1339	17:51	28	1.077	A BB	28657.	60.600	UG/L	2.56
41	106	1445	19:16	28	1.163	A BB	25222.	50.000	UG/L	2.11
42	173	1491	19:53	16	3.476	A BB	17345.	50.000	UG/L	2.11
43	95	1581	21:05	28	1.272	A BB	45522.	100.000	%	4.22
44	98	766	10:13	28	0.616	A BB	46512.	100.000	%	4.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:50	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:13	1.00	0.316	1.00	50.00	50.00	0.399	0.399	1.00
3	1:24	1.00	0.365	1.00	50.00	50.00	0.367	0.367	1.00
4	1:14	1.00	0.323	1.00	50.00	50.00	0.534	0.534	1.00
5	1:22	1.00	0.358	1.00	50.00	50.00	0.253	0.253	1.00
6	2:13	1.00	0.576	1.00	50.00	50.00	1.503	1.503	1.00
7	1:54	1.00	0.497	1.00	50.00	50.00	0.431	0.431	1.00
8	1:58	1.00	0.510	1.00	50.00	50.00	4.169	4.169	1.00
9	1:50	1.00	0.476	1.00	50.00	50.00	0.988	0.988	1.00
10	2:50	1.00	0.740	1.00	50.00	50.00	3.508	3.508	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	4:00	1.00	1.042	1.00	50.00	50.00	3.065	3.065	1.00
12	4:11	1.00	1.090	1.00	50.00	50.00	2.051	2.051	1.00
13	1:29	1.00	0.382	1.00	50.00	50.00	0.553	0.553	1.00
14	2:26	1.00	0.632	1.00	50.00	50.00	1.430	1.430	1.00
15	3:31	1.00	0.917	1.00	58.70	58.70	1.632	1.632	1.00
16	5:43	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	4:54	1.00	0.858	1.00	50.00	50.00	0.441	0.441	1.00
18	3:38	1.00	0.634	1.00	50.00	50.00	0.035	0.035	1.00
19	4:26	1.00	0.774	1.00	50.00	50.00	0.370	0.370	1.00
20	2:56	1.00	0.513	1.00	50.00	50.00	0.551	0.551	1.00
21	7:48	1.00	1.364	1.00	50.00	50.00	0.596	0.596	1.00
22	6:46	1.00	1.184	1.00	50.00	50.00	0.573	0.573	1.00
23	11:50	1.00	2.070	1.00	60.00	60.00	0.333	0.333	1.00
24	6:13	1.00	1.086	1.00	50.00	50.00	0.413	0.413	1.00
25	4:48	1.00	0.839	1.00	50.00	50.00	1.068	1.068	1.00
26	9:10	1.00	1.601	1.00	50.00	50.00	0.042	0.042	1.00
27	4:46	1.00	0.832	1.00	100.00	100.00	0.189	0.189	1.00
28	16:34	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
29	14:10	1.00	0.855	1.00	50.00	50.00	0.482	0.482	1.00
30	12:34	1.00	0.759	1.00	50.00	50.00	0.318	0.318	1.00
31	9:23	1.00	0.566	1.00	40.00	40.00	0.909	0.909	1.00
32	14:15	1.00	0.860	1.00	50.00	50.00	0.369	0.369	1.00
33	10:23	1.00	0.627	1.00	50.00	50.00	0.416	0.416	1.00
34	12:39	1.00	0.763	1.00	50.00	50.00	0.408	0.408	1.00
35	22:02	1.00	1.329	1.00	50.00	50.00	0.626	0.626	1.00
36	10:27	1.00	0.631	1.00	50.00	50.00	1.012	1.012	1.00
37	16:42	1.00	1.007	1.00	50.00	50.00	0.955	0.955	1.00
38	17:32	1.00	1.047	1.00	50.00	50.00	0.451	0.451	1.00
39	19:24	1.00	1.171	1.00	50.00	50.00	0.950	0.950	1.00
40	17:51	1.00	1.077	1.00	60.60	60.60	0.524	0.524	1.00
41	19:16	1.00	1.163	1.00	50.00	50.00	0.558	0.558	1.00
42	19:53	1.00	3.476	1.00	50.00	50.00	0.429	0.429	1.00
43	21:05	1.00	1.272	1.00	100.00	100.00	0.504	0.504	1.00
44	10:13	1.00	0.616	1.00	100.00	100.00	0.515	0.515	1.00

Quantitation Report File: A0401BK05

Data: A0401BK05.TI
04/01/91 14:56:00
Sample: 100PPB STD
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	288	3:50	1	1.000	A BB	8872.	50.000	UG/L	1.17
2	50	91	1:13	1	0.316	A BB	8090.	100.000	UG/L	2.33
3	94	102	1:22	1	0.354	A BB	5780.	100.000	UG/L	2.33
4	62	92	1:14	1	0.319	A BB	10293.	100.000	UG/L	2.33
5	64	103	1:22	1	0.358	A VB	3744.	100.000	UG/L	2.33
6	84	166	2:13	1	0.576	A BB	27079.	100.000	UG/L	2.33
7	43	144	1:55	1	0.500	A BB	6810.	100.000	UG/L	2.33
8	76	147	1:58	1	0.510	A BB	73763.	100.000	UG/L	2.33
9	96	136	1:49	1	0.472	A BB	17053.	100.000	UG/L	2.33
10	63	213	2:50	1	0.740	A BB	64782.	100.000	UG/L	2.33
11	83	301	4:01	1	1.045	A BB	58013.	100.000	UG/L	2.33
12	97	313	4:10	1	1.087	A BB	36079.	100.000	UG/L	2.33
13	101	109	1:27	1	0.378	A BV	9474.	100.000	UG/L	2.33
14	96	182	2:26	1	0.632	A BB	26006.	100.000	UG/L	2.33
15	96	264	3:31	1	0.917	A BB	35649.	117.400	UG/L	2.74
16	114	430	5:44	16	1.000	A BB	40074.	50.000	UG/L	1.17
17	62	368	4:54	16	0.856	A BB	36535.	100.000	UG/L	2.33
18	72	272	3:38	16	0.633	A BB	2949.	100.000	UG/L	2.33
19	117	332	4:26	16	0.772	A BB	32218.	100.000	UG/L	2.33
20	43	220	2:56	16	0.512	A BB	63882.	100.000	UG/L	2.33
21	83	583	7:46	16	1.356	A BB	50967.	100.000	UG/L	2.33
22	63	509	6:47	16	1.184	A BB	49140.	100.000	UG/L	2.33
23	75	890	11:52	16	2.070	A BB	36029.	120.000	UG/L	2.80
24	130	466	6:13	16	1.084	A BB	34489.	100.000	UG/L	2.33
25	78	359	4:47	16	0.835	A BB	90660.	100.000	UG/L	2.33
26	106	687	9:10	16	1.598	A BB	3331.	100.000	UG/L	2.33
27	65	358	4:46	16	0.833	A BB	16165.	100.000	%	2.33
28	117	1244	16:35	28	1.000	A BB	43809.	50.000	UG/L	1.17
29	129	1065	14:12	28	0.856	A BB	47398.	100.000	UG/L	2.33
30	97	943	12:34	28	0.758	A BB	28655.	100.000	UG/L	2.33
31	75	704	9:23	28	0.566	A BB	69115.	80.000	UG/L	1.87
32	43	1070	14:16	28	0.860	A BB	34823.	100.000	UG/L	2.33
33	43	777	10:22	28	0.625	A BB	37612.	100.000	UG/L	2.33
34	164	949	12:39	28	0.763	A BB	38410.	100.000	UG/L	2.33
35	83	1655	22:04	28	1.330	A BB	58393.	100.000	UG/L	2.33
36	91	784	10:27	28	0.630	A BB	99589.	100.000	UG/L	2.33
37	112	1252	16:42	28	1.006	A BB	91060.	100.000	UG/L	2.33
38	106	1304	17:23	28	1.048	A BB	42213.	100.000	UG/L	2.33
39	104	1456	19:25	28	1.170	A BB	92620.	100.000	UG/L	2.33
40	106	1341	17:53	28	1.078	A BB	61295.	121.200	UG/L	2.83
41	106	1447	19:18	28	1.163	A BB	54528.	100.000	UG/L	2.33
42	173	1493	19:54	16	3.472	A BB	37035.	100.000	UG/L	2.33
43	95	1582	21:06	28	1.272	A BB	47835.	100.000	%	2.33
44	98	766	10:13	28	0.616	A BB	46591.	100.000	%	2.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:50	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:13	1.00	0.316	1.00	100.00	100.00	0.456	0.456	1.00
3	1:22	1.00	0.354	1.00	100.00	100.00	0.326	0.326	1.00
4	1:14	1.00	0.319	1.00	100.00	100.00	0.580	0.580	1.00
5	1:22	1.00	0.358	1.00	100.00	100.00	0.211	0.211	1.00
6	2:13	1.00	0.576	1.00	100.00	100.00	1.526	1.526	1.00
7	1:55	1.00	0.500	1.00	100.00	100.00	0.384	0.384	1.00
8	1:58	1.00	0.510	1.00	100.00	100.00	4.157	4.157	1.00
9	1:49	1.00	0.472	1.00	100.00	100.00	0.961	0.961	1.00
10	2:50	1.00	0.740	1.00	100.00	100.00	3.651	3.651	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
11	4:01	1.00	1.045	1.00	100.00	100.00	3.269	3.269	1.00
12	4:10	1.00	1.087	1.00	100.00	100.00	2.033	2.033	1.00
13	1:27	1.00	0.378	1.00	100.00	100.00	0.534	0.534	1.00
14	2:26	1.00	0.632	1.00	100.00	100.00	1.466	1.466	1.00
15	3:31	1.00	0.917	1.00	117.40	117.40	1.711	1.711	1.00
16	5.44	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	4:54	1.00	0.856	1.00	100.00	100.00	0.456	0.456	1.00
18	3:38	1.00	0.633	1.00	100.00	100.00	0.037	0.037	1.00
19	4:26	1.00	0.772	1.00	100.00	100.00	0.402	0.402	1.00
20	2:56	1.00	0.512	1.00	100.00	100.00	0.797	0.797	1.00
21	7:46	1.00	1.356	1.00	100.00	100.00	0.636	0.636	1.00
22	6:47	1.00	1.184	1.00	100.00	100.00	0.613	0.613	1.00
23	11:52	1.00	2.070	1.00	120.00	120.00	0.375	0.375	1.00
24	6:13	1.00	1.084	1.00	100.00	100.00	0.430	0.430	1.00
25	4:47	1.00	0.835	1.00	100.00	100.00	1.131	1.131	1.00
26	9:10	1.00	1.598	1.00	100.00	100.00	0.042	0.042	1.00
27	4:46	1.00	0.833	1.00	100.00	100.00	0.202	0.202	1.00
28	16:35	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
29	14:12	1.00	0.856	1.00	100.00	100.00	0.541	0.541	1.00
30	12:34	1.00	0.758	1.00	100.00	100.00	0.327	0.327	1.00
31	9:23	1.00	0.566	1.00	80.00	80.00	0.986	0.986	1.00
32	14:16	1.00	0.860	1.00	100.00	100.00	0.397	0.397	1.00
33	10:22	1.00	0.625	1.00	100.00	100.00	0.429	0.429	1.00
34	12:39	1.00	0.763	1.00	100.00	100.00	0.438	0.438	1.00
35	22:04	1.00	1.330	1.00	100.00	100.00	0.666	0.666	1.00
36	10:27	1.00	0.630	1.00	100.00	100.00	1.137	1.137	1.00
37	16:42	1.00	1.006	1.00	100.00	100.00	1.039	1.039	1.00
38	17:23	1.00	1.048	1.00	100.00	100.00	0.482	0.482	1.00
39	19:25	1.00	1.170	1.00	100.00	100.00	1.057	1.057	1.00
40	17:53	1.00	1.078	1.00	121.20	121.20	0.577	0.577	1.00
41	19:18	1.00	1.163	1.00	100.00	100.00	0.622	0.622	1.00
42	19:54	1.00	3.472	1.00	100.00	100.00	0.462	0.462	1.00
43	21:06	1.00	1.272	1.00	100.00	100.00	0.546	0.546	1.00
44	10:13	1.00	0.616	1.00	100.00	100.00	0.532	0.532	1.00

Quantitation Report File: A0401BK06

Data: A0401BK06.TI
04/01/91 15:34.00
Sample: 150PPB STD
Conds.: LC, DB-624
Formula. Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	C101 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	C110 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYL VINYL ETHER
27	C315 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C120 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	287	3:50	1	1.000	A BB	8885.	50.000	UG/L	0.81
2	50	91	1:13	1	0.317	A BB	10424.	150.000	UG/L	2.42
3	94	102	1:22	1	0.355	A BV	7807.	150.000	UG/L	2.42
4	62	92	1:14	1	0.321	A BB	14168.	150.000	UG/L	2.42
5	64	102	1:22	1	0.355	A VB	4995.	150.000	UG/L	2.42
6	84	165	2:12	1	0.575	A BB	37271.	150.000	UG/L	2.42
7	43	144	1:55	1	0.502	A BB	7670.	150.000	UG/L	2.42
8	76	145	1:56	1	0.505	A BB	81234.	150.000	UG/L	2.42
9	96	135	1:48	1	0.470	A BB	20723.	150.000	UG/L	2.42
10	63	212	2:50	1	0.739	A BB	98535.	150.000	UG/L	2.42
11	83	300	4:00	1	1.045	A BB	86193.	150.000	UG/L	2.42
12	97	313	4:10	1	1.091	A BB	56390.	150.000	UG/L	2.42
13	101	109	1:27	1	0.380	A BV	13467.	150.000	UG/L	2.42
14	96	181	2:25	1	0.631	A BB	38546.	150.000	UG/L	2.42
15	96	264	3:31	1	0.920	A BB	54365.	176.100	UG/L	2.84
16	114	429	5:43	16	1.000	A BB	41531.	50.000	UG/L	0.81
17	62	368	4:54	16	0.858	A BB	56457.	150.000	UG/L	2.42
18	72	273	3:38	16	0.636	A BB	3804.	150.000	UG/L	2.42
19	117	331	4:25	16	0.772	A BB	48692.	150.000	UG/L	2.42
20	43	220	2:56	16	0.513	A BB	95526.	150.000	UG/L	2.42
21	83	585	7:48	16	1.364	A BB	80684.	150.000	UG/L	2.42
22	63	509	6:47	16	1.186	A BB	74733.	150.000	UG/L	2.42
23	75	890	11:52	16	2.075	A BB	55668.	180.000	UG/L	2.90
24	130	466	6:13	16	1.086	A BB	53059.	150.000	UG/L	2.42
25	78	359	4:47	16	0.837	A BB	140220.	150.000	UG/L	2.42
26	106	687	9:10	16	1.601	A BB	4999.	150.000	UG/L	2.42
27	65	357	4:46	16	0.832	A BB	16295.	100.000	%	1.61
28	117	1246	16:37	28	1.000	A BB	45162.	50.000	UG/L	0.81
29	129	1066	14:13	28	0.856	A BB	71574.	150.000	UG/L	2.42
30	97	943	12:34	28	0.757	A BB	45048.	150.000	UG/L	2.42
31	75	705	9:24	28	0.566	A BB	108649.	120.000	UG/L	1.93
32	43	1071	14:17	28	0.860	A BB	49186.	150.000	UG/L	2.42
33	43	779	10:23	28	0.625	A BB	55918.	150.000	UG/L	2.42
34	164	950	12:40	28	0.762	A BB	60028.	150.000	UG/L	2.42
35	83	1655	22:04	28	1.328	A BB	90442.	150.000	UG/L	2.42
36	91	785	10:28	28	0.630	A BB	150467.	150.000	UG/L	2.42
37	112	1253	16:42	28	1.006	A BB	141100.	150.000	UG/L	2.42
38	106	1304	17:23	28	1.047	A BB	64771.	150.000	UG/L	2.42
39	104	1457	19:26	28	1.169	A BB	138453.	150.000	UG/L	2.42
40	106	1341	17:53	28	1.076	A BB	96131.	181.800	UG/L	2.93
41	106	1447	19:18	28	1.161	A BB	79944.	150.000	UG/L	2.42
42	173	1494	19:55	16	3.483	A BB	56118.	150.000	UG/L	2.42
43	95	1583	21:06	28	1.270	A BB	49369.	100.000	%	1.61
44	98	767	10:14	28	0.616	A BB	48723.	100.000	%	1.61

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:50	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:13	1.00	0.317	1.00	150.00	150.00	0.391	0.391	1.00
3	1:22	1.00	0.355	1.00	150.00	150.00	0.293	0.293	1.00
4	1:14	1.00	0.321	1.00	150.00	150.00	0.532	0.532	1.00
5	1:22	1.00	0.355	1.00	150.00	150.00	0.187	0.187	1.00
6	2:12	1.00	0.575	1.00	150.00	150.00	1.398	1.398	1.00
7	1:55	1.00	0.502	1.00	150.00	150.00	0.288	0.288	1.00
8	1:56	1.00	0.505	1.00	150.00	150.00	3.048	3.048	1.00
9	1:48	1.00	0.470	1.00	150.00	150.00	0.777	0.777	1.00
10	2:50	1.00	0.739	1.00	150.00	150.00	3.697	3.697	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	4:00	1.00	1.045	1.00	150.00	150.00	3.234	3.234	1.00
12	4:10	1.00	1.091	1.00	150.00	150.00	2.116	2.116	1.00
13	1:27	1.00	0.380	1.00	150.00	150.00	0.505	0.505	1.00
14	2:25	1.00	0.631	1.00	150.00	150.00	1.446	1.446	1.00
15	3:31	1.00	0.920	1.00	176.10	176.10	1.737	1.737	1.00
16	5:43	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	4:54	1.00	0.858	1.00	150.00	150.00	0.453	0.453	1.00
18	3:38	1.00	0.636	1.00	150.00	150.00	0.031	0.031	1.00
19	4:25	1.00	0.772	1.00	150.00	150.00	0.391	0.391	1.00
20	2:56	1.00	0.513	1.00	150.00	150.00	0.767	0.767	1.00
21	7:48	1.00	1.364	1.00	150.00	150.00	0.648	0.648	1.00
22	6:47	1.00	1.186	1.00	150.00	150.00	0.600	0.600	1.00
23	11:52	1.00	2.075	1.00	180.00	180.00	0.372	0.372	1.00
24	6:13	1.00	1.086	1.00	150.00	150.00	0.426	0.426	1.00
25	4:47	1.00	0.837	1.00	150.00	150.00	1.125	1.125	1.00
26	9:10	1.00	1.601	1.00	150.00	150.00	0.040	0.040	1.00
27	4:46	1.00	0.832	1.00	100.00	100.00	0.196	0.196	1.00
28	16:37	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
29	14:13	1.00	0.856	1.00	150.00	150.00	0.528	0.528	1.00
30	12:34	1.00	0.757	1.00	150.00	150.00	0.332	0.332	1.00
31	9:24	1.00	0.566	1.00	120.00	120.00	1.002	1.002	1.00
32	14:17	1.00	0.860	1.00	150.00	150.00	0.363	0.363	1.00
33	10:23	1.00	0.625	1.00	150.00	150.00	0.413	0.413	1.00
34	12:40	1.00	0.762	1.00	150.00	150.00	0.443	0.443	1.00
35	22:04	1.00	1.328	1.00	150.00	150.00	0.668	0.668	1.00
36	10:28	1.00	0.630	1.00	150.00	150.00	1.111	1.111	1.00
37	16:42	1.00	1.006	1.00	150.00	150.00	1.041	1.041	1.00
38	17:23	1.00	1.047	1.00	150.00	150.00	0.478	0.478	1.00
39	19:26	1.00	1.169	1.00	150.00	150.00	1.022	1.022	1.00
40	17:53	1.00	1.076	1.00	181.80	181.80	0.585	0.585	1.00
41	19:18	1.00	1.161	1.00	150.00	150.00	0.590	0.590	1.00
42	19:55	1.00	3.483	1.00	150.00	150.00	0.450	0.450	1.00
43	21:06	1.00	1.270	1.00	100.00	100.00	0.547	0.547	1.00
44	10:14	1.00	0.616	1.00	100.00	100.00	0.539	0.539	1.00

Quantitation Report File: A0401BK09

Data: A0401BK09.TI
04/01/91 17:22:00
Sample: 200PPB STD
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.001
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	298	3:58	1	1.000	A BB	8878.	50.000	UG/L	0.62
2	50	91	1:13	1	0.305	A BB	12661.	200.000	UG/L	2.46
3	94	102	1:22	1	0.342	A BB	10083.	200.000	UG/L	2.46
4	62	93	1:14	1	0.312	A BB	18793.	200.000	UG/L	2.46
5	64	103	1:22	1	0.346	A VB	6577.	200.000	UG/L	2.46
6	84	167	2:14	1	0.560	A BB	43381.	200.000	UG/L	2.46
7	43	147	1:58	1	0.493	A BB	8212.	200.000	UG/L	2.46
8	76	146	1:57	1	0.490	A BB	94841.	200.000	UG/L	2.46
9	96	135	1:48	1	0.453	A BB	23463.	200.000	UG/L	2.46
10	63	218	2:54	1	0.732	A BB	130854.	200.000	UG/L	2.46
11	83	312	4:10	1	1.047	A BB	116944.	200.000	UG/L	2.46
12	97	325	4:20	1	1.091	A BB	73828.	200.000	UG/L	2.46
13	101	110	1:28	1	0.369	A BB	22020.	200.000	UG/L	2.46
14	96	184	2:27	1	0.617	A BB	49618.	200.000	UG/L	2.46
15	96	272	3:38	1	0.913	A BB	72116.	234.800	UG/L	2.89
16	114	453	6:02	16	1.000	A BB	40531.	50.000	UG/L	0.62
17	62	386	5:09	16	0.852	A BB	75558.	200.000	UG/L	2.46
18	72	283	3:46	16	0.625	A BB	5592.	200.000	UG/L	2.46
19	117	345	4:36	16	0.762	A BB	66225.	200.000	UG/L	2.46
20	43	227	3:02	16	0.501	A BB	83220.	200.000	UG/L	2.46
21	83	616	8:13	16	1.360	A BB	109039.	200.000	UG/L	2.46
22	63	537	7:10	16	1.185	A BB	100382.	200.000	UG/L	2.46
23	75	915	12:12	16	2.020	A BB	60840.	240.000	UG/L	2.95
24	130	490	6:32	16	1.082	A BB	71478.	200.000	UG/L	2.46
25	78	375	5:00	16	0.828	A BB	186722.	200.000	UG/L	2.46
26	106	717	9:34	16	1.583	A BB	6626.	200.000	UG/L	2.46
27	65	373	4:58	16	0.823	A BV	14902.	100.000	%	1.23
28	117	1259	16:47	28	1.000	A BB	45902.	50.000	UG/L	0.62
29	129	1087	14:30	28	0.863	A BB	100517.	200.000	UG/L	2.46
30	97	968	12:54	28	0.769	A BB	60329.	200.000	UG/L	2.46
31	75	734	9:47	28	0.583	A BB	142635.	160.000	UG/L	1.97
32	43	1091	14:33	28	0.867	A BB	64924.	200.000	UG/L	2.46
33	43	807	10:46	28	0.641	A BB	75755.	200.000	UG/L	2.46
34	164	971	12:57	28	0.771	A BB	76900.	200.000	UG/L	2.46
35	83	1662	22:10	28	1.320	A BB	129015.	200.000	UG/L	2.46
36	91	812	10:50	28	0.645	A BB	202369.	200.000	UG/L	2.46
37	112	1267	16:54	28	1.006	A BB	190765.	200.000	UG/L	2.46
38	106	1318	17:34	28	1.047	A BB	86948.	200.000	UG/L	2.46
39	104	1467	19:34	28	1.165	A BB	178534.	200.000	UG/L	2.46
40	106	1354	18:03	28	1.075	A BB	126561.	242.400	UG/L	2.98
41	106	1457	19:26	28	1.157	A BB	104693.	200.000	UG/L	2.46
42	173	1503	20:02	16	3.318	A BB	80027.	200.000	UG/L	2.46
43	95	1590	21:12	28	1.263	A BB	47800.	100.000	%	1.23
44	98	794	10:35	28	0.631	A BB	47568.	100.000	%	1.23

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:58	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:13	1.00	0.305	1.00	200.00	200.00	0.357	0.357	1.00
3	1:22	1.00	0.342	1.00	200.00	200.00	0.284	0.284	1.00
4	1:14	1.00	0.312	1.00	200.00	200.00	0.529	0.529	1.00
5	1:22	1.00	0.346	1.00	200.00	200.00	0.185	0.185	1.00
6	2:14	1.00	0.560	1.00	200.00	200.00	1.222	1.222	1.00
7	1:58	1.00	0.493	1.00	200.00	200.00	0.231	0.231	1.00
8	1:57	1.00	0.490	1.00	200.00	200.00	2.671	2.671	1.00
9	1:48	1.00	0.453	1.00	200.00	200.00	0.661	0.661	1.00
10	2:54	1.00	0.732	1.00	200.00	200.00	3.685	3.685	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	4:10	1.00	1.047	1.00	200.00	200.00	3.293	3.293	1.00
12	4:20	1.00	1.091	1.00	200.00	200.00	2.079	2.079	1.00
13	1:28	1.00	0.369	1.00	200.00	200.00	0.620	0.620	1.00
14	2:27	1.00	0.617	1.00	200.00	200.00	1.397	1.397	1.00
15	3:38	1.00	0.913	1.00	234.80	234.80	1.730	1.730	1.00
16	6:02	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	5:09	1.00	0.852	1.00	200.00	200.00	0.466	0.466	1.00
18	3:46	1.00	0.625	1.00	200.00	200.00	0.034	0.034	1.00
19	4:36	1.00	0.762	1.00	200.00	200.00	0.408	0.408	1.00
20	3:02	1.00	0.501	1.00	200.00	200.00	0.513	0.513	1.00
21	8:13	1.00	1.360	1.00	200.00	200.00	0.673	0.673	1.00
22	7:10	1.00	1.185	1.00	200.00	200.00	0.619	0.619	1.00
23	12.12	1.00	2.020	1.00	240.00	240.00	0.313	0.313	1.00
24	6:32	1.00	1.082	1.00	200.00	200.00	0.441	0.441	1.00
25	5:00	1.00	0.828	1.00	200.00	200.00	1.152	1.152	1.00
26	9:34	1.00	1.583	1.00	200.00	200.00	0.041	0.041	1.00
27	4:58	1.00	0.823	1.00	100.00	100.00	0.184	0.184	1.00
28	16:47	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
29	14:30	1.00	0.863	1.00	200.00	200.00	0.547	0.547	1.00
30	12:54	1.00	0.769	1.00	200.00	200.00	0.329	0.329	1.00
31	9:47	1.00	0.583	1.00	160.00	160.00	0.971	0.971	1.00
32	14:33	1.00	0.867	1.00	200.00	200.00	0.354	0.354	1.00
33	10:46	1.00	0.641	1.00	200.00	200.00	0.413	0.413	1.00
34	12:57	1.00	0.771	1.00	200.00	200.00	0.419	0.419	1.00
35	22:10	1.00	1.320	1.00	200.00	200.00	0.703	0.703	1.00
36	10:50	1.00	0.645	1.00	200.00	200.00	1.102	1.102	1.00
37	16:54	1.00	1.006	1.00	200.00	200.00	1.039	1.039	1.00
38	17:34	1.00	1.047	1.00	200.00	200.00	0.474	0.474	1.00
39	19:34	1.00	1.165	1.00	200.00	200.00	0.972	0.972	1.00
40	18:03	1.00	1.075	1.00	242.40	242.40	0.569	0.569	1.00
41	19:26	1.00	1.157	1.00	200.00	200.00	0.570	0.570	1.00
42	20:02	1.00	3.318	1.00	200.00	200.00	0.494	0.494	1.00
43	21:12	1.00	1.263	1.00	100.00	100.00	0.521	0.521	1.00
44	10:35	1.00	0.631	1.00	100.00	100.00	0.518	0.518	1.00

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Instrument ID: 5100 Calibration Date(s): 03/14/91 03/14/91

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

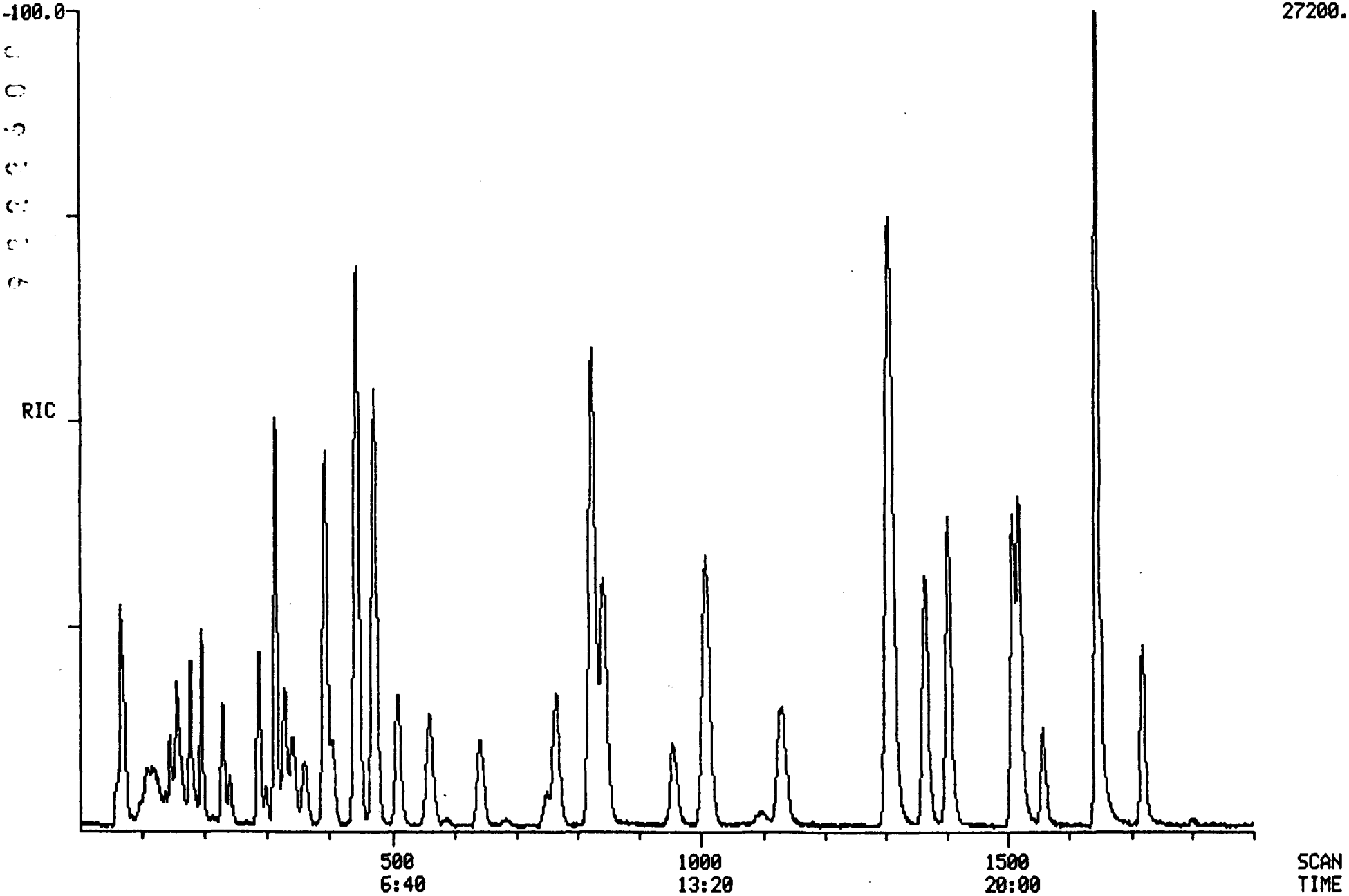
Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = B0314LC08 RRF50 = B0314LC09
RRF100= B0314LC06 RRF150= B0314LC04 RRF200= B0314LC07

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.324	0.382	0.499	0.636	0.476	0.463	25.8#
Bromomethane	0.496	0.621	0.756	0.797	0.642	0.662	18.0
Vinyl Chloride *	0.533	0.575	0.747	0.866	0.760	0.696	19.9*
Chloroethane	0.367	0.429	0.491	0.546	0.447	0.456	14.7
Methylene Chloride	1.183	1.506	1.523	1.678	1.691	1.516	13.5
Acetone	0.490	0.533	0.529	0.600	0.572	0.545	7.8
Carbon Disulfide	4.613	5.211	5.017	5.096	4.203	4.828	8.6
1,1-Dichloroethene *	0.838	1.092	1.192	1.268	1.350	1.148	17.2*
1,1-Dichloroethane #	2.808	2.905	3.270	3.514	3.508	3.201	10.4#
1,2-Dichloroethene (total)	1.485	1.518	1.700	1.836	1.826	1.673	9.9
Chloroform *	2.780	2.988	3.141	3.320	3.413	3.128	8.1*
1,2-Dichloroethane	0.297	0.330	0.350	0.344	0.383	0.341	9.2
2-Butanone	0.055	0.043	0.044	0.046	0.049	0.047	10.3
1,1,1-Trichloroethane	1.604	1.906	1.958	2.110	2.143	1.944	11.0
Carbon Tetrachloride	0.231	0.247	0.299	0.281	0.320	0.276	13.3
Vinyl Acetate	0.292	0.315	0.339	0.378	0.395	0.344	12.4
Bromodichloromethane	0.487	0.507	0.571	0.570	0.646	0.556	11.3
1,2-Dichloropropane *	0.409	0.481	0.502	0.508	0.557	0.491	11.0*
cis-1,3-Dichloropropene	0.572	0.590	0.672	0.679	0.746	0.652	10.9
Trichloroethene	0.354	0.356	0.400	0.405	0.440	0.391	9.3
Dibromochloromethane	0.381	0.432	0.474	0.443	0.495	0.445	9.8
1,1,2-Trichloroethane	0.347	0.376	0.399	0.373	0.404	0.380	6.0
Benzene	0.953	1.000	1.127	1.139	1.268	1.097	11.4
trans-1,3-Dichloropropene	0.448	0.462	0.512	0.482	0.530	0.487	7.0
Bromoform #	0.336	0.341	0.357	0.358	0.401	0.359	7.1#
4-Methyl-2-Pentanone	0.407	0.433	0.472	0.442	0.397	0.430	6.9
2-Hexanone	0.396	0.429	0.456	0.437	0.456	0.435	5.7
Tetrachloroethene	0.306	0.332	0.368	0.341	0.387	0.347	9.1
1,1,2,2-Tetrachloroethane #	0.696	0.713	0.725	0.679	0.732	0.709	3.0#
Toluene *	1.139	1.186	1.316	1.232	1.240	1.223	5.4*
Chlorobenzene #	0.931	0.940	1.013	0.967	1.022	0.975	4.3#
Ethylbenzene *	0.471	0.494	0.511	0.482	0.511	0.494	3.6*
Styrene	1.010	1.019	1.062	1.106	1.119	1.063	4.6
Xylene (total)	0.625	0.615	0.644	0.652	0.653	0.638	2.7
Toluene-d8	0.519	0.523	0.550	0.521	0.521	0.527	2.5
Bromofluorobenzene	0.466	0.478	0.496	0.440	0.482	0.472	4.5
1,2-Dichloroethane-d4	0.143	0.145	0.164	0.140	0.150	0.148	6.4

RIC
03/14/91 14:54:00
SAMPLE: 20 PPB STD
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0314LC08 #1 SCANS 1 TO 1900
CALI: B0314LC08 #3



Quantitation Report File: B0314LC08

Data: B0314LC08.TI
03/14/91 14:54:00
Sample: 20 PPB STD
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.002
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

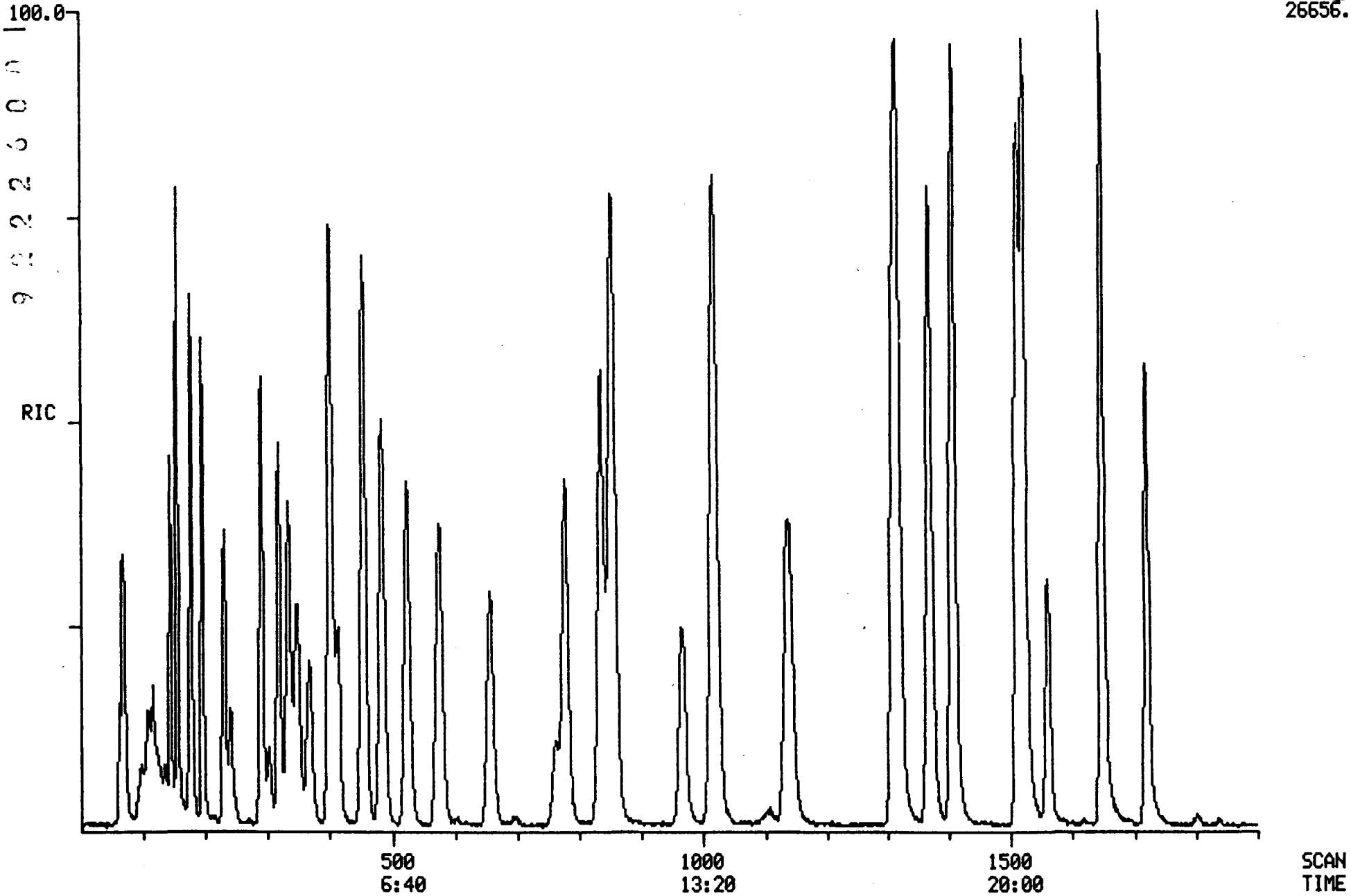
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	314	4:11	1	1.000	A BB	11005.	50.000	UG/L	4.11
2	50	98	1:18	1	0.312	A BB	1424.	20.000	UG/L	1.64
3	94	110	1:28	1	0.350	A BB	2183.	20.000	UG/L	1.64
4	62	100	1:20	1	0.318	A BB	2346.	20.000	UG/L	1.64
5	64	110	1:28	1	0.350	A VB	1614.	20.000	UG/L	1.64
6	84	178	2:22	1	0.567	A BB	5210.	20.000	UG/L	1.64
7	43	156	2:05	1	0.497	A BB	2157.	20.000	UG/L	1.64
8	76	157	2:06	1	0.500	A BB	20306.	20.000	UG/L	1.64
9	96	146	1:57	1	0.465	A BB	3689.	20.000	UG/L	1.64
10	63	231	3:05	1	0.736	A BB	12363.	20.000	UG/L	1.64
11	83	329	4:23	1	1.048	A BB	12236.	20.000	UG/L	1.64
12	97	343	4:34	1	1.092	A BB	7060.	20.000	UG/L	1.64
13	101	118	1:34	1	0.376	A BV	971.	20.000	UG/L	1.64
14	96	196	2:37	1	0.624	A BB	6536.	20.000	UG/L	1.64
15	96	288	3:50	1	0.917	A BB	7900.	23.480	UG/L	1.93
16	114	473	6:18	16	1.000	A BB	54052.	50.000	UG/L	4.11
17	62	405	5:24	16	0.856	A BB	6430.	20.000	UG/L	1.64
18	72	300	4:00	16	0.634	A BB	1196.	20.000	UG/L	1.64
19	117	362	4:50	16	0.765	A BB	4995.	20.000	UG/L	1.64
20	43	241	3:13	16	0.510	A BB	6313.	20.000	UG/L	1.64
21	83	642	8:34	16	1.357	A BB	10528.	20.000	UG/L	1.64
22	63	561	7:29	16	1.186	A BB	8852.	20.000	UG/L	1.64
23	75	766	10:13	16	1.619	A BB	14839.	24.000	UG/L	1.97
24	130	510	6:48	16	1.078	A BB	7663.	20.000	UG/L	1.64
25	78	393	5:14	16	0.831	A BB	20604.	20.000	UG/L	1.64
26	106	750	10:00	16	1.586	A BB	791.	20.000	UG/L	1.64
27	65	393	5:14	16	0.831	A BB	15482.	100.000	%	8.21
28	173	1557	20:46	16	3.292	A BB	7260.	20.000	UG/L	1.64
29	117	1306	17:25	29	1.000	A BB	58489.	50.000	UG/L	4.11
30	129	1128	15:02	29	0.864	A BB	8911.	20.000	UG/L	1.64
31	97	1011	13:29	29	0.774	A BB	8125.	20.000	UG/L	1.64
32	75	956	12:45	29	0.732	A BB	8377.	16.000	UG/L	1.31
33	43	1135	15:08	29	0.869	A BB	9265.	20.000	UG/L	1.64
34	43	845	11:16	29	0.647	A BB	9531.	20.000	UG/L	1.64
35	164	1008	13:26	29	0.772	A BB	7165.	20.000	UG/L	1.64
36	83	1721	22:57	29	1.318	A BB	16277.	20.000	UG/L	1.64
37	91	843	11:14	29	0.645	A BB	26640.	20.000	UG/L	1.64
38	112	1314	17:31	29	1.006	A BB	21792.	20.000	UG/L	1.64
39	106	1366	18:13	29	1.046	A BB	11028.	20.000	UG/L	1.64
40	104	1520	20:16	29	1.164	A BB	23636.	20.000	UG/L	1.64
41	106	1404	18:43	29	1.075	A BB	16002.	24.240	UG/L	1.99
42	106	1509	20:07	29	1.155	A BB	14631.	20.000	UG/L	1.64
43	95	1646	21:57	29	1.260	A BB	54466.	100.000	%	8.21
44	98	824	10:59	29	0.631	A BB	60751.	100.000	%	8.21

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:11	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:18	1.00	0.312	1.00	20.00	20.00	0.324	0.324	1.00
3	1:28	1.00	0.350	1.00	20.00	20.00	0.496	0.496	1.00
4	1:20	1.00	0.318	1.00	20.00	20.00	0.533	0.533	1.00
5	1:28	1.00	0.350	1.00	20.00	20.00	0.367	0.367	1.00
6	2:22	1.00	0.567	1.00	20.00	20.00	1.183	1.183	1.00
7	2:05	1.00	0.497	1.00	20.00	20.00	0.490	0.490	1.00
8	2:06	1.00	0.500	1.00	20.00	20.00	4.613	4.613	1.00
9	1:57	1.00	0.465	1.00	20.00	20.00	0.838	0.838	1.00
10	3:05	1.00	0.736	1.00	20.00	20.00	2.808	2.808	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
11	4:23	1.00	1.048	1.00	20.00	20.00	2.780	2.780	1.00
12	4:34	1.00	1.092	1.00	20.00	20.00	1.604	1.604	1.00
13	1:34	1.00	0.376	1.00	20.00	20.00	0.221	0.221	1.00
14	2:37	1.00	0.624	1.00	20.00	20.00	1.485	1.485	1.00
15	3:50	1.00	0.917	1.00	23.48	23.48	1.529	1.529	1.00
16	6:18	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	5:24	1.00	0.856	1.00	20.00	20.00	0.297	0.297	1.00
18	4:00	1.00	0.634	1.00	20.00	20.00	0.055	0.055	1.00
19	4:50	1.00	0.765	1.00	20.00	20.00	0.231	0.231	1.00
20	3:13	1.00	0.510	1.00	20.00	20.00	0.292	0.292	1.00
21	8:34	1.00	1.357	1.00	20.00	20.00	0.487	0.487	1.00
22	7:29	1.00	1.186	1.00	20.00	20.00	0.409	0.409	1.00
23	10:13	1.00	1.619	1.00	24.00	24.00	0.572	0.572	1.00
24	6:48	1.00	1.078	1.00	20.00	20.00	0.354	0.354	1.00
25	5:14	1.00	0.831	1.00	20.00	20.00	0.953	0.953	1.00
26	10:00	1.00	1.586	1.00	20.00	20.00	0.037	0.037	1.00
27	5:14	1.00	0.831	1.00	100.00	100.00	0.143	0.143	1.00
28	20:46	1.00	3.292	1.00	20.00	20.00	0.336	0.336	1.00
29	17:25	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	15:02	1.00	0.864	1.00	20.00	20.00	0.381	0.381	1.00
31	13:29	1.00	0.774	1.00	20.00	20.00	0.347	0.347	1.00
32	12:45	1.00	0.732	1.00	16.00	16.00	0.448	0.448	1.00
33	15:08	1.00	0.869	1.00	20.00	20.00	0.396	0.396	1.00
34	11:16	1.00	0.647	1.00	20.00	20.00	0.407	0.407	1.00
35	13:26	1.00	0.772	1.00	20.00	20.00	0.306	0.306	1.00
36	22:57	1.00	1.318	1.00	20.00	20.00	0.696	0.696	1.00
37	11:14	1.00	0.645	1.00	20.00	20.00	1.139	1.139	1.00
38	17:31	1.00	1.006	1.00	20.00	20.00	0.931	0.931	1.00
39	18:13	1.00	1.046	1.00	20.00	20.00	0.471	0.471	1.00
40	20:16	1.00	1.164	1.00	20.00	20.00	1.010	1.010	1.00
41	18:43	1.00	1.075	1.00	24.24	24.24	0.564	0.564	1.00
42	20:07	1.00	1.155	1.00	20.00	20.00	0.625	0.625	1.00
43	21:57	1.00	1.260	1.00	100.00	100.00	0.466	0.466	1.00
44	10:59	1.00	0.631	1.00	100.00	100.00	0.519	0.519	1.00

RIC
03/14/91 15:36:00
SAMPLE: 50 PPB STD
CONDS.: LC, DB-624
RANGE: G 1,1920 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0314LC09 #1 SCANS 1 TO 1900
CALI: B0314LC09 #3



Quantitation Report File: B0314LC09

Data: B0314LC09.TI
03/14/91 15:36:00
Sample: 50 PPB STD
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.003
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

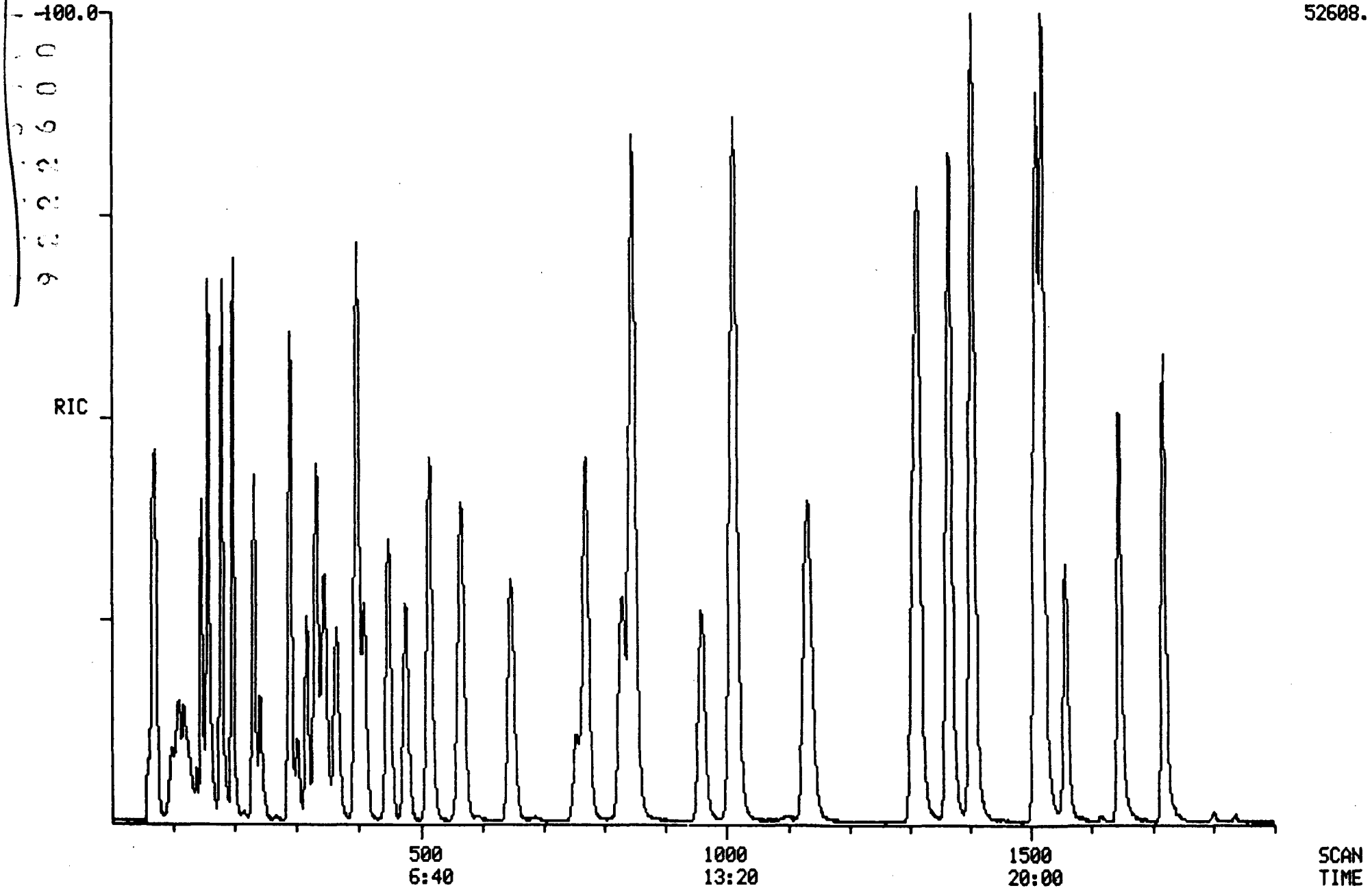
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	319	4:15	1	1.000	A BB	10587.	50.000	UG/L	2.11
2	50	96	1:17	1	0.301	A BB	4049.	50.000	UG/L	2.11
3	94	109	1:27	1	0.342	A BB	6570.	50.000	UG/L	2.11
4	62	98	1:18	1	0.307	A BB	6092.	50.000	UG/L	2.11
5	64	109	1:27	1	0.342	A VB	4541.	50.000	UG/L	2.11
6	84	178	2:22	1	0.558	A BB	15940.	50.000	UG/L	2.11
7	43	155	2:04	1	0.486	A BB	5638.	50.000	UG/L	2.11
8	76	156	2:05	1	0.489	A BB	55169.	50.000	UG/L	2.11
9	96	144	1:55	1	0.451	A BB	11561.	50.000	UG/L	2.11
10	63	231	3:05	1	0.724	A BB	30758.	50.000	UG/L	2.11
11	83	334	4:27	1	1.047	A BB	31629.	50.000	UG/L	2.11
12	97	348	4:38	1	1.091	A BB	20181.	50.000	UG/L	2.11
13	101	117	1:34	1	0.367	A BB	7488.	50.000	UG/L	2.11
14	96	196	2:37	1	0.614	A BB	16067.	50.000	UG/L	2.11
15	96	291	3:53	1	0.912	A BB	21158.	58.700	UG/L	2.48
16	114	485	6:28	16	1.000	A BB	53135.	50.000	UG/L	2.11
17	62	414	5:31	16	0.854	A BB	17558.	50.000	UG/L	2.11
18	72	304	4:03	16	0.627	A BB	2277.	50.000	UG/L	2.11
19	117	368	4:54	16	0.759	A BB	13099.	50.000	UG/L	2.11
20	43	242	3:14	16	0.499	A BB	16728.	50.000	UG/L	2.11
21	83	658	8:46	16	1.357	A BB	26945.	50.000	UG/L	2.11
22	63	576	7:41	16	1.188	A BB	25555.	50.000	UG/L	2.11
23	75	778	10:22	16	1.604	A BB	37647.	60.000	UG/L	2.53
24	130	524	6:59	16	1.080	A BB	18907.	50.000	UG/L	2.11
25	78	401	5:21	16	0.827	A BB	53157.	50.000	UG/L	2.11
26	106	762	10:10	16	1.571	A BB	1778.	50.000	UG/L	2.11
27	65	402	5:22	16	0.829	A BB	15388.	100.000	%	4.22
28	173	1560	20:48	16	3.216	A BB	18143.	50.000	UG/L	2.11
29	117	1312	17:30	29	1.000	A BB	56921.	50.000	UG/L	2.11
30	129	1135	15:08	29	0.865	A BB	24580.	50.000	UG/L	2.11
31	97	1018	13:34	29	0.776	A BB	21423.	50.000	UG/L	2.11
32	75	964	12:51	29	0.735	A BB	21023.	40.000	UG/L	1.69
33	43	1143	15:14	29	0.871	A BB	24406.	50.000	UG/L	2.11
34	43	853	11:22	29	0.650	A BB	24646.	50.000	UG/L	2.11
35	164	1018	13:34	29	0.776	A BB	18875.	50.000	UG/L	2.11
36	83	1722	22:58	29	1.312	A BB	40576.	50.000	UG/L	2.11
37	91	855	11:24	29	0.652	A BB	67500.	50.000	UG/L	2.11
38	112	1318	17:34	29	1.005	A BB	53506.	50.000	UG/L	2.11
39	106	1369	18:15	29	1.043	A BB	28115.	50.000	UG/L	2.11
40	104	1523	20:18	29	1.161	A BB	58004.	50.000	UG/L	2.11
41	106	1408	18:46	29	1.073	A BB	40638.	60.600	UG/L	2.56
42	106	1513	20:10	29	1.153	A BB	35020.	50.000	UG/L	2.11
43	95	1648	21:58	29	1.256	A BB	54453.	100.000	%	4.22
44	98	836	11:09	29	0.637	A BB	59537.	100.000	%	4.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:15	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:17	1.00	0.301	1.00	50.00	50.00	0.382	0.382	1.00
3	1:27	1.00	0.342	1.00	50.00	50.00	0.621	0.621	1.00
4	1:18	1.00	0.307	1.00	50.00	50.00	0.575	0.575	1.00
5	1:27	1.00	0.342	1.00	50.00	50.00	0.429	0.429	1.00
6	2:22	1.00	0.558	1.00	50.00	50.00	1.506	1.506	1.00
7	2:04	1.00	0.486	1.00	50.00	50.00	0.533	0.533	1.00
8	2:05	1.00	0.489	1.00	50.00	50.00	5.211	5.211	1.00
9	1:55	1.00	0.451	1.00	50.00	50.00	1.092	1.092	1.00
10	3:05	1.00	0.724	1.00	50.00	50.00	2.905	2.905	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	4:27	1.00	1.047	1.00	50.00	50.00	2.988	2.988	1.00
12	4:38	1.00	1.091	1.00	50.00	50.00	1.906	1.906	1.00
13	1:34	1.00	0.367	1.00	50.00	50.00	0.707	0.707	1.00
14	2:37	1.00	0.614	1.00	50.00	50.00	1.518	1.518	1.00
15	3:53	1.00	0.912	1.00	58.70	58.70	1.702	1.702	1.00
16	6:28	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	5:31	1.00	0.854	1.00	50.00	50.00	0.330	0.330	1.00
18	4:03	1.00	0.627	1.00	50.00	50.00	0.043	0.043	1.00
19	4:54	1.00	0.759	1.00	50.00	50.00	0.247	0.247	1.00
20	3:14	1.00	0.499	1.00	50.00	50.00	0.315	0.315	1.00
21	8:46	1.00	1.357	1.00	50.00	50.00	0.507	0.507	1.00
22	7:41	1.00	1.188	1.00	50.00	50.00	0.481	0.481	1.00
23	10:22	1.00	1.604	1.00	60.00	60.00	0.590	0.590	1.00
24	6:59	1.00	1.080	1.00	50.00	50.00	0.356	0.356	1.00
25	5:21	1.00	0.827	1.00	50.00	50.00	1.000	1.000	1.00
26	10:10	1.00	1.571	1.00	50.00	50.00	0.033	0.033	1.00
27	5:22	1.00	0.829	1.00	100.00	100.00	0.145	0.145	1.00
28	20:48	1.00	3.216	1.00	50.00	50.00	0.341	0.341	1.00
29	17:30	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	15:08	1.00	0.865	1.00	50.00	50.00	0.432	0.432	1.00
31	13:34	1.00	0.776	1.00	50.00	50.00	0.376	0.376	1.00
32	12:51	1.00	0.735	1.00	40.00	40.00	0.462	0.462	1.00
33	15:14	1.00	0.871	1.00	50.00	50.00	0.429	0.429	1.00
34	11:22	1.00	0.650	1.00	50.00	50.00	0.433	0.433	1.00
35	13:34	1.00	0.776	1.00	50.00	50.00	0.332	0.332	1.00
36	22:58	1.00	1.312	1.00	50.00	50.00	0.713	0.713	1.00
37	11:24	1.00	0.652	1.00	50.00	50.00	1.186	1.186	1.00
38	17:34	1.00	1.005	1.00	50.00	50.00	0.940	0.940	1.00
39	18:15	1.00	1.043	1.00	50.00	50.00	0.494	0.494	1.00
40	20:18	1.00	1.161	1.00	50.00	50.00	1.019	1.019	1.00
41	18:46	1.00	1.073	1.00	60.60	60.60	0.589	0.589	1.00
42	20:10	1.00	1.153	1.00	50.00	50.00	0.615	0.615	1.00
43	21:58	1.00	1.256	1.00	100.00	100.00	0.478	0.478	1.00
44	11:09	1.00	0.637	1.00	100.00	100.00	0.523	0.523	1.00

RIC
03/14/91 13:31:00
SAMPLE: 100 PPB STD
CONDS.: LC, DB-624
RANGE: G 1,2009 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0314LC06 #1 SCANS 1 TO 1900
CALI: B0314LC06 #3



Quantitation Report File: B0314LC06

Data: B0314LC06.TI
03/14/91 13:31:00
Sample: 100 PPB STD
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.003
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	317	4:14	1	1.000	A BB	10983.	50.000	UG/L	1.17
2	50	98	1:18	1	0.309	A BB	10955.	100.000	UG/L	2.33
3	94	109	1:27	1	0.344	A BB	16608.	100.000	UG/L	2.33
4	62	101	1:21	1	0.319	A BB	16409.	100.000	UG/L	2.33
5	64	112	1:30	1	0.353	A VB	10793.	100.000	UG/L	2.33
6	84	179	2:23	1	0.565	A BB	33452.	100.000	UG/L	2.33
7	43	156	2:05	1	0.492	A BB	11622.	100.000	UG/L	2.33
8	76	157	2:06	1	0.495	A BB	110215.	100.000	UG/L	2.33
9	96	146	1:57	1	0.461	A BB	26193.	100.000	UG/L	2.33
10	63	232	3:06	1	0.732	A BB	71824.	100.000	UG/L	2.33
11	83	331	4:25	1	1.044	A BB	69006.	100.000	UG/L	2.33
12	97	345	4:36	1	1.088	A BB	43013.	100.000	UG/L	2.33
13	101	119	1:35	1	0.375	A BB	18616.	100.000	UG/L	2.33
14	96	197	2:38	1	0.621	A BB	37349.	100.000	UG/L	2.33
15	96	290	3:52	1	0.915	A BB	45970.	117.400	UG/L	2.74
16	114	477	6:22	16	1.000	A BB	52050.	50.000	UG/L	1.17
17	62	409	5:27	16	0.857	A BB	36423.	100.000	UG/L	2.33
18	72	302	4:02	16	0.633	A BB	4626.	100.000	UG/L	2.33
19	117	364	4:51	16	0.763	A BB	31140.	100.000	UG/L	2.33
20	43	242	3:14	16	0.507	A BB	35261.	100.000	UG/L	2.33
21	83	649	8:39	16	1.361	A BB	59413.	100.000	UG/L	2.33
22	63	566	7:33	16	1.187	A BB	52259.	100.000	UG/L	2.33
23	75	770	10:16	16	1.614	A BB	83922.	120.000	UG/L	2.80
24	130	515	6:52	16	1.080	A BB	41599.	100.000	UG/L	2.33
25	78	397	5:18	16	0.832	A BB	117320.	100.000	UG/L	2.33
26	106	754	10:03	16	1.581	A BB	3323.	100.000	UG/L	2.33
27	65	397	5:18	16	0.832	A BB	17119.	100.000	%	2.33
28	173	1558	20:46	16	3.266	A BB	37133.	100.000	UG/L	2.33
29	117	1307	17:26	29	1.000	A BB	55619.	50.000	UG/L	1.17
30	129	1130	15:04	29	0.865	A BB	52757.	100.000	UG/L	2.33
31	97	1013	13:30	29	0.775	A BB	44398.	100.000	UG/L	2.33
32	75	961	12:49	29	0.735	A BB	45589.	80.000	UG/L	1.87
33	43	1136	15:09	29	0.869	A BB	50704.	100.000	UG/L	2.33
34	43	848	11:18	29	0.649	A BB	52489.	100.000	UG/L	2.33
35	164	1012	13:30	29	0.774	A BB	40940.	100.000	UG/L	2.33
36	83	1720	22:56	29	1.316	A BB	80618.	100.000	UG/L	2.33
37	91	848	11:18	29	0.649	A BB	146361.	100.000	UG/L	2.33
38	112	1315	17:32	29	1.006	A BB	112737.	100.000	UG/L	2.33
39	106	1367	18:14	29	1.046	A BB	56830.	100.000	UG/L	2.33
40	104	1520	20:16	29	1.163	A BB	118187.	100.000	UG/L	2.33
41	106	1404	18:43	29	1.074	A BB	84599.	121.200	UG/L	2.83
42	106	1510	20:08	29	1.155	A BB	71602.	100.000	UG/L	2.33
43	95	1646	21:57	29	1.259	A BB	55181.	100.000	%	2.33
44	98	829	11:03	29	0.634	A BB	61180.	100.000	%	2.33

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:14	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:18	1.00	0.309	1.00	100.00	100.00	0.499	0.499	1.00
3	1:27	1.00	0.344	1.00	100.00	100.00	0.756	0.756	1.00
4	1:21	1.00	0.319	1.00	100.00	100.00	0.747	0.747	1.00
5	1:30	1.00	0.353	1.00	100.00	100.00	0.491	0.491	1.00
6	2:23	1.00	0.565	1.00	100.00	100.00	1.523	1.523	1.00
7	2:05	1.00	0.492	1.00	100.00	100.00	0.529	0.529	1.00
8	2:06	1.00	0.495	1.00	100.00	100.00	5.017	5.017	1.00
9	1:57	1.00	0.461	1.00	100.00	100.00	1.192	1.192	1.00
10	3:06	1.00	0.732	1.00	100.00	100.00	3.270	3.270	1.00

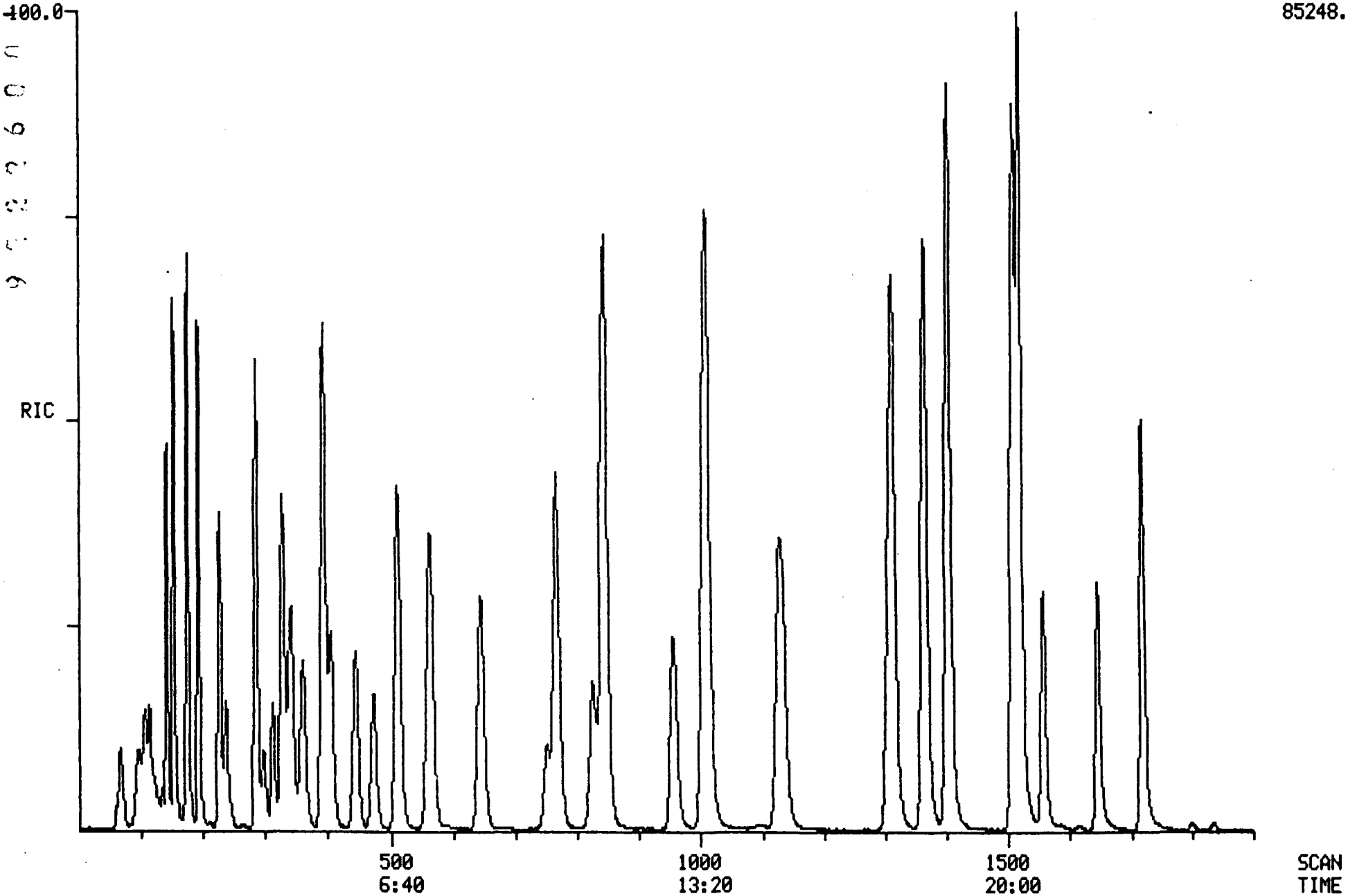
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	4:25	1.00	1.044	1.00	100.00	100.00	3.141	3.141	1.00
12	4:36	1.00	1.088	1.00	100.00	100.00	1.958	1.958	1.00
13	1:35	1.00	0.375	1.00	100.00	100.00	0.847	0.847	1.00
14	2:38	1.00	0.621	1.00	100.00	100.00	1.700	1.700	1.00
15	3:52	1.00	0.915	1.00	117.40	117.40	1.783	1.783	1.00
16	6:22	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	5:27	1.00	0.857	1.00	100.00	100.00	0.350	0.350	1.00
18	4:02	1.00	0.633	1.00	100.00	100.00	0.044	0.044	1.00
19	4:51	1.00	0.763	1.00	100.00	100.00	0.299	0.299	1.00
20	3:14	1.00	0.507	1.00	100.00	100.00	0.339	0.339	1.00
21	8:39	1.00	1.361	1.00	100.00	100.00	0.571	0.571	1.00
22	7:33	1.00	1.187	1.00	100.00	100.00	0.502	0.502	1.00
23	10:16	1.00	1.614	1.00	120.00	120.00	0.672	0.672	1.00
24	6:52	1.00	1.080	1.00	100.00	100.00	0.400	0.400	1.00
25	5:18	1.00	0.832	1.00	100.00	100.00	1.127	1.127	1.00
26	10:03	1.00	1.581	1.00	100.00	100.00	0.032	0.032	1.00
27	5:18	1.00	0.832	1.00	100.00	100.00	0.164	0.164	1.00
28	20:46	1.00	3.266	1.00	100.00	100.00	0.357	0.357	1.00
29	17:26	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	15:04	1.00	0.865	1.00	100.00	100.00	0.474	0.474	1.00
31	13:30	1.00	0.775	1.00	100.00	100.00	0.399	0.399	1.00
32	12:49	1.00	0.735	1.00	80.00	80.00	0.512	0.512	1.00
33	15:09	1.00	0.869	1.00	100.00	100.00	0.456	0.456	1.00
34	11:18	1.00	0.649	1.00	100.00	100.00	0.472	0.472	1.00
35	13:30	1.00	0.774	1.00	100.00	100.00	0.368	0.368	1.00
36	22:56	1.00	1.316	1.00	100.00	100.00	0.725	0.725	1.00
37	11:18	1.00	0.649	1.00	100.00	100.00	1.316	1.316	1.00
38	17:32	1.00	1.006	1.00	100.00	100.00	1.013	1.013	1.00
39	18:14	1.00	1.046	1.00	100.00	100.00	0.511	0.511	1.00
40	20:16	1.00	1.163	1.00	100.00	100.00	1.062	1.062	1.00
41	18:43	1.00	1.074	1.00	121.20	121.20	0.627	0.627	1.00
42	20:08	1.00	1.155	1.00	100.00	100.00	0.644	0.644	1.00
43	21:57	1.00	1.259	1.00	100.00	100.00	0.496	0.496	1.00
44	11:03	1.00	0.634	1.00	100.00	100.00	0.550	0.550	1.00

RIC
03/14/91 12:22:00
SAMPLE: 150 PPB STD
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0314LC04 #1 SCANS 1 TO 1900
CALI: B0314LC04 #3

000663

85248.



Quantitation Report File: B0314LC04

Data: B0314LC04.TI
03/14/91 12:22:00
Sample: 150 PPB STD
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

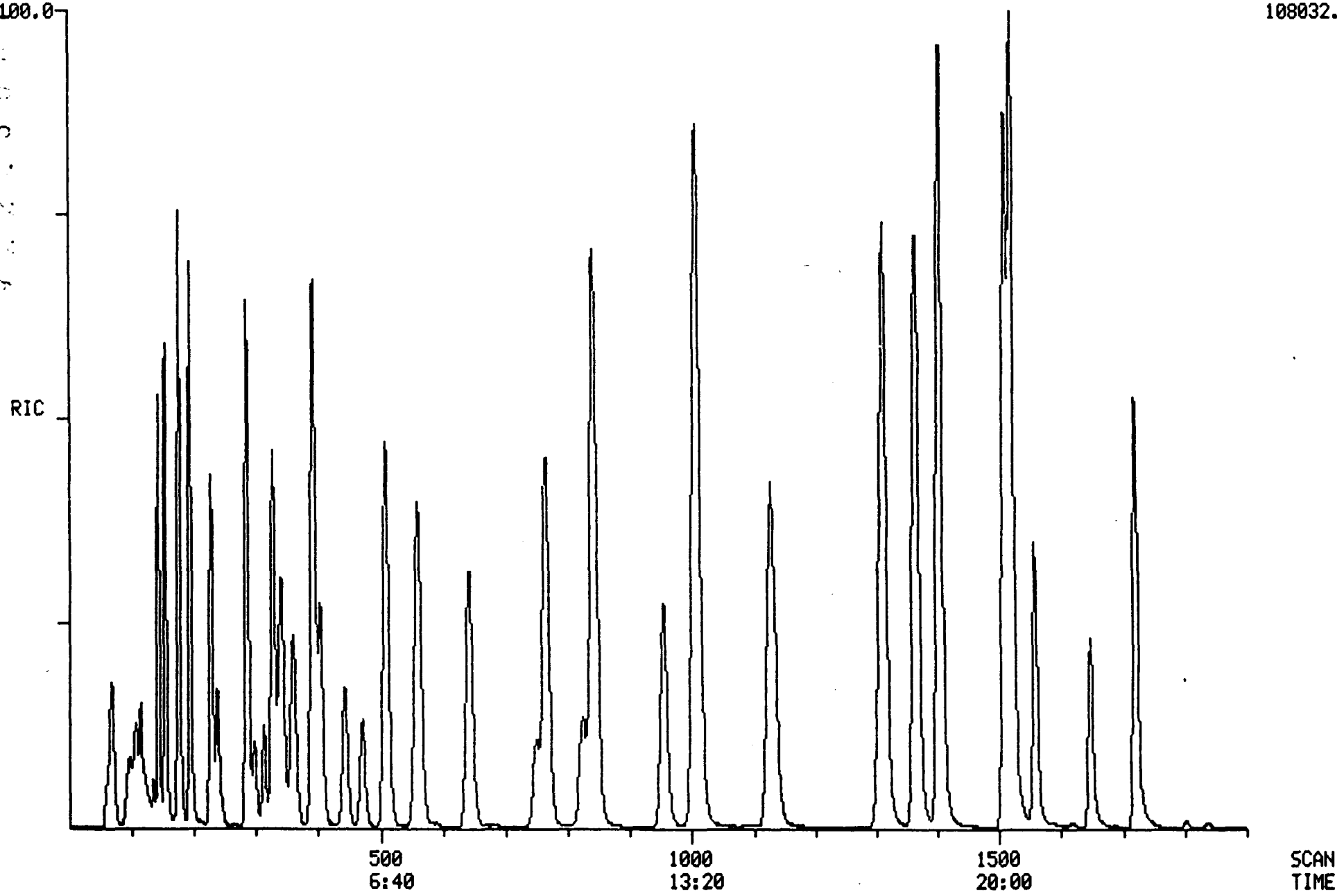
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	314	4:11	1	1.000	A BB	10548.	50.000	UG/L	0.81
2	50	96	1:17	1	0.306	A BB	20131.	150.000	UG/L	2.42
3	94	107	1:26	1	0.341	A BB	25233.	150.000	UG/L	2.42
4	62	98	1:18	1	0.312	A BB	27415.	150.000	UG/L	2.42
5	64	108	1:26	1	0.344	A VB	17276.	150.000	UG/L	2.42
6	84	176	2:21	1	0.561	A BB	53084.	150.000	UG/L	2.42
7	43	154	2:03	1	0.490	A BB	18979.	150.000	UG/L	2.42
8	76	153	2:02	1	0.487	A BB	161251.	150.000	UG/L	2.42
9	96	142	1:54	1	0.452	A BB	40124.	150.000	UG/L	2.42
10	63	228	3:02	1	0.726	A BB	111195.	150.000	UG/L	2.42
11	83	328	4:22	1	1.045	A BB	105070.	150.000	UG/L	2.42
12	97	342	4:34	1	1.089	A BB	66779.	150.000	UG/L	2.42
13	101	116	1:33	1	0.369	A BB	27050.	150.000	UG/L	2.42
14	96	193	2:34	1	0.615	A BB	58105.	150.000	UG/L	2.42
15	96	286	3:49	1	0.911	A BB	71424.	176.100	UG/L	2.84
16	114	473	6:18	16	1.000	A BB	54020.	50.000	UG/L	0.81
17	62	406	5:25	16	0.858	A BB	55796.	150.000	UG/L	2.42
18	72	299	3:59	16	0.632	A BB	7437.	150.000	UG/L	2.42
19	117	361	4:49	16	0.763	A BB	45565.	150.000	UG/L	2.42
20	43	239	3:11	16	0.505	A BB	61207.	150.000	UG/L	2.42
21	83	645	8:36	16	1.364	A BB	92428.	150.000	UG/L	2.42
22	63	564	7:31	16	1.192	A BB	82382.	150.000	UG/L	2.42
23	75	767	10:14	16	1.622	A BB	132035.	180.000	UG/L	2.90
24	130	512	6:50	16	1.082	A BB	65569.	150.000	UG/L	2.42
25	78	394	5:15	16	0.833	A BB	184617.	150.000	UG/L	2.42
26	106	752	10:02	16	1.590	A BB	4924.	150.000	UG/L	2.42
27	65	393	5:14	16	0.831	A BV	15169.	100.000	%	1.61
28	173	1557	20:46	16	3.292	A BB	58068.	150.000	UG/L	2.42
29	117	1306	17:25	29	1.000	A BB	58658.	50.000	UG/L	0.81
30	129	1128	15:02	29	0.864	A BB	77928.	150.000	UG/L	2.42
31	97	1011	13:29	29	0.774	A BB	65622.	150.000	UG/L	2.42
32	75	956	12:45	29	0.732	A BB	67816.	120.000	UG/L	1.93
33	43	1135	15:08	29	0.869	A BB	76926.	150.000	UG/L	2.42
34	43	847	11:18	29	0.649	A BB	77864.	150.000	UG/L	2.42
35	164	1007	13:26	29	0.771	A BB	60094.	150.000	UG/L	2.42
36	83	1720	22:56	29	1.317	A BB	119469.	150.000	UG/L	2.42
37	91	847	11:18	29	0.649	A BB	216713.	150.000	UG/L	2.42
38	112	1314	17:31	29	1.006	A BB	170235.	150.000	UG/L	2.42
39	106	1366	18:13	29	1.046	A BB	84745.	150.000	UG/L	2.42
40	104	1520	20:16	29	1.164	A BB	194693.	150.000	UG/L	2.42
41	106	1404	18:43	29	1.075	A BB	127653.	181.800	UG/L	2.93
42	106	1510	20:08	29	1.156	A BB	114718.	150.000	UG/L	2.42
43	95	1646	21:57	29	1.260	A BB	51565.	100.000	%	1.61
44	98	825	11:00	29	0.632	A BB	61114.	100.000	%	1.61

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:11	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:17	1.00	0.306	1.00	150.00	150.00	0.636	0.636	1.00
3	1:26	1.00	0.341	1.00	150.00	150.00	0.797	0.797	1.00
4	1:18	1.00	0.312	1.00	150.00	150.00	0.866	0.866	1.00
5	1:26	1.00	0.344	1.00	150.00	150.00	0.546	0.546	1.00
6	2:21	1.00	0.561	1.00	150.00	150.00	1.678	1.678	1.00
7	2:03	1.00	0.490	1.00	150.00	150.00	0.600	0.600	1.00
8	2:02	1.00	0.487	1.00	150.00	150.00	5.096	5.096	1.00
9	1:54	1.00	0.452	1.00	150.00	150.00	1.268	1.268	1.00
10	3:02	1.00	0.726	1.00	150.00	150.00	3.514	3.514	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	4:22	1.00	1.045	1.00	150.00	150.00	3.320	3.320	1.00
12	4:34	1.00	1.089	1.00	150.00	150.00	2.110	2.110	1.00
13	1:33	1.00	0.369	1.00	150.00	150.00	0.855	0.855	1.00
14	2:34	1.00	0.615	1.00	150.00	150.00	1.836	1.836	1.00
15	3:49	1.00	0.911	1.00	176.10	176.10	1.923	1.923	1.00
16	6:18	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	5:25	1.00	0.858	1.00	150.00	150.00	0.344	0.344	1.00
18	3:59	1.00	0.632	1.00	150.00	150.00	0.046	0.046	1.00
19	4:49	1.00	0.763	1.00	150.00	150.00	0.281	0.281	1.00
20	3:11	1.00	0.505	1.00	150.00	150.00	0.378	0.378	1.00
21	8:36	1.00	1.364	1.00	150.00	150.00	0.570	0.570	1.00
22	7:31	1.00	1.192	1.00	150.00	150.00	0.508	0.508	1.00
23	10:14	1.00	1.622	1.00	180.00	180.00	0.679	0.679	1.00
24	6:50	1.00	1.082	1.00	150.00	150.00	0.405	0.405	1.00
25	5:15	1.00	0.833	1.00	150.00	150.00	1.139	1.139	1.00
26	10:02	1.00	1.590	1.00	150.00	150.00	0.030	0.030	1.00
27	5:14	1.00	0.831	1.00	100.00	100.00	0.140	0.140	1.00
28	20:46	1.00	3.292	1.00	150.00	150.00	0.358	0.358	1.00
29	17:25	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	15:02	1.00	0.864	1.00	150.00	150.00	0.443	0.443	1.00
31	13:29	1.00	0.774	1.00	150.00	150.00	0.373	0.373	1.00
32	12:45	1.00	0.732	1.00	120.00	120.00	0.482	0.482	1.00
33	15:08	1.00	0.869	1.00	150.00	150.00	0.437	0.437	1.00
34	11:18	1.00	0.649	1.00	150.00	150.00	0.442	0.442	1.00
35	13:26	1.00	0.771	1.00	150.00	150.00	0.341	0.341	1.00
36	22:56	1.00	1.317	1.00	150.00	150.00	0.679	0.679	1.00
37	11:18	1.00	0.649	1.00	150.00	150.00	1.232	1.232	1.00
38	17:31	1.00	1.006	1.00	150.00	150.00	0.967	0.967	1.00
39	18:13	1.00	1.046	1.00	150.00	150.00	0.482	0.482	1.00
40	20:16	1.00	1.164	1.00	150.00	150.00	1.106	1.106	1.00
41	18:43	1.00	1.075	1.00	181.80	181.80	0.599	0.599	1.00
42	20:08	1.00	1.156	1.00	150.00	150.00	0.652	0.652	1.00
43	21:57	1.00	1.260	1.00	100.00	100.00	0.440	0.440	1.00
44	11:00	1.00	0.632	1.00	100.00	100.00	0.521	0.521	1.00

RIC
03/14/91 14:10:00
SAMPLE: 200 PPB STD
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0314LC07 #1 SCANS 1 TO 1900
CALI: B0314LC07 #3



Quantitation Report File: B0314LC07

Data: B0314LC07.TI
03/14/91 14:10:00
Sample: 200 PPB STD
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.003
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	313	4:10	1	1.000	A BB	10833.	50.000	UG/L	0.62
2	50	95	1:16	1	0.304	A BB	20612.	200.000	UG/L	2.46
3	94	108	1:26	1	0.345	A BB	27839.	200.000	UG/L	2.46
4	62	98	1:18	1	0.313	A BB	32944.	200.000	UG/L	2.46
5	64	109	1:27	1	0.348	A VB	19358.	200.000	UG/L	2.46
6	84	177	2:22	1	0.565	A BB	73288.	200.000	UG/L	2.46
7	43	155	2:04	1	0.495	A BB	24782.	200.000	UG/L	2.46
8	76	154	2:03	1	0.492	A BB	182121.	200.000	UG/L	2.46
9	96	144	1:55	1	0.460	A BB	58485.	200.000	UG/L	2.46
10	63	229	3:03	1	0.732	A BB	152017.	200.000	UG/L	2.46
11	83	328	4:22	1	1.048	A BB	147903.	200.000	UG/L	2.46
12	97	342	4:34	1	1.093	A BB	92884.	200.000	UG/L	2.46
13	101	116	1:33	1	0.371	A BB	36587.	200.000	UG/L	2.46
14	96	194	2:35	1	0.620	A BB	79112.	200.000	UG/L	2.46
15	96	287	3:50	1	0.917	A BB	102383.	234.800	UG/L	2.89
16	114	472	6:18	16	1.000	A BB	51527.	50.000	UG/L	0.62
17	62	404	5:23	16	0.856	A BB	78944.	200.000	UG/L	2.46
18	72	299	3:59	16	0.633	A BB	10196.	200.000	UG/L	2.46
19	117	359	4:47	16	0.761	A BB	65897.	200.000	UG/L	2.46
20	43	239	3:11	16	0.506	A BB	81503.	200.000	UG/L	2.46
21	83	644	8:35	16	1.364	A BB	133213.	200.000	UG/L	2.46
22	63	560	7:28	16	1.186	A BB	114797.	200.000	UG/L	2.46
23	75	767	10:14	16	1.625	A BB	184419.	240.000	UG/L	2.95
24	130	510	6:48	16	1.081	A BB	90753.	200.000	UG/L	2.46
25	78	393	5:14	16	0.833	A BB	261265.	200.000	UG/L	2.46
26	106	748	9:58	16	1.585	A BB	6599.	200.000	UG/L	2.46
27	65	393	5:14	16	0.833	A BV	15459.	100.000	%	1.23
28	173	1559	20:47	16	3.303	A BB	82582.	200.000	UG/L	2.46
29	117	1306	17:25	29	1.000	A BB	57593.	50.000	UG/L	0.62
30	129	1128	15:02	29	0.864	A BB	114110.	200.000	UG/L	2.46
31	97	1009	13:27	29	0.773	A BB	92999.	200.000	UG/L	2.46
32	75	956	12:45	29	0.732	A BB	97670.	160.000	UG/L	1.97
33	43	1136	15:09	29	0.870	A BB	105151.	200.000	UG/L	2.46
34	43	842	11:14	29	0.645	A BB	91556.	200.000	UG/L	2.46
35	164	1008	13:26	29	0.772	A BB	89122.	200.000	UG/L	2.46
36	83	1723	22:58	29	1.319	A BB	168639.	200.000	UG/L	2.46
37	91	844	11:15	29	0.646	A BB	285740.	200.000	UG/L	2.46
38	112	1314	17:31	29	1.006	A BB	235474.	200.000	UG/L	2.46
39	106	1366	18:13	29	1.046	A BB	117772.	200.000	UG/L	2.46
40	104	1522	20:18	29	1.165	A BB	257709.	200.000	UG/L	2.46
41	106	1405	18:44	29	1.076	A BB	173834.	242.400	UG/L	2.98
42	106	1511	20:09	29	1.157	A BB	150375.	200.000	UG/L	2.46
43	95	1648	21:58	29	1.262	A BB	55558.	100.000	%	1.23
44	98	825	11:00	29	0.632	A BB	60065.	100.000	%	1.23

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:10	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:16	1.00	0.304	1.00	200.00	200.00	0.476	0.476	1.00
3	1:26	1.00	0.345	1.00	200.00	200.00	0.642	0.642	1.00
4	1:18	1.00	0.313	1.00	200.00	200.00	0.760	0.760	1.00
5	1:27	1.00	0.348	1.00	200.00	200.00	0.447	0.447	1.00
6	2:22	1.00	0.565	1.00	200.00	200.00	1.691	1.691	1.00
7	2:04	1.00	0.495	1.00	200.00	200.00	0.572	0.572	1.00
8	2:03	1.00	0.492	1.00	200.00	200.00	4.203	4.203	1.00
9	1:55	1.00	0.460	1.00	200.00	200.00	1.350	1.350	1.00
10	3:03	1.00	0.732	1.00	200.00	200.00	3.508	3.508	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
11	4:22	1.00	1.048	1.00	200.00	200.00	3.413	3.413	1.00
12	4:34	1.00	1.093	1.00	200.00	200.00	2.143	2.143	1.00
13	1:33	1.00	0.371	1.00	200.00	200.00	0.844	0.844	1.00
14	2:35	1.00	0.620	1.00	200.00	200.00	1.826	1.826	1.00
15	3:50	1.00	0.917	1.00	234.80	234.80	2.012	2.012	1.00
16	6:18	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	5:23	1.00	0.856	1.00	200.00	200.00	0.383	0.383	1.00
18	3:59	1.00	0.633	1.00	200.00	200.00	0.049	0.049	1.00
19	4:47	1.00	0.761	1.00	200.00	200.00	0.320	0.320	1.00
20	3:11	1.00	0.506	1.00	200.00	200.00	0.395	0.395	1.00
21	8:35	1.00	1.364	1.00	200.00	200.00	0.646	0.646	1.00
22	7:28	1.00	1.186	1.00	200.00	200.00	0.557	0.557	1.00
23	10:14	1.00	1.625	1.00	240.00	240.00	0.746	0.746	1.00
24	6:48	1.00	1.081	1.00	200.00	200.00	0.440	0.440	1.00
25	5:14	1.00	0.833	1.00	200.00	200.00	1.268	1.268	1.00
26	9:58	1.00	1.585	1.00	200.00	200.00	0.032	0.032	1.00
27	5:14	1.00	0.833	1.00	100.00	100.00	0.150	0.150	1.00
28	20:47	1.00	3.303	1.00	200.00	200.00	0.401	0.401	1.00
29	17:25	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	15:02	1.00	0.864	1.00	200.00	200.00	0.495	0.495	1.00
31	13:27	1.00	0.773	1.00	200.00	200.00	0.404	0.404	1.00
32	12:45	1.00	0.732	1.00	160.00	160.00	0.530	0.530	1.00
33	15:09	1.00	0.870	1.00	200.00	200.00	0.456	0.456	1.00
34	11:14	1.00	0.645	1.00	200.00	200.00	0.397	0.397	1.00
35	13:26	1.00	0.772	1.00	200.00	200.00	0.387	0.387	1.00
36	22:58	1.00	1.319	1.00	200.00	200.00	0.732	0.732	1.00
37	11:15	1.00	0.646	1.00	200.00	200.00	1.240	1.240	1.00
38	17:31	1.00	1.006	1.00	200.00	200.00	1.022	1.022	1.00
39	18:13	1.00	1.046	1.00	200.00	200.00	0.511	0.511	1.00
40	20:18	1.00	1.165	1.00	200.00	200.00	1.119	1.119	1.00
41	18:44	1.00	1.076	1.00	242.40	242.40	0.623	0.623	1.00
42	20:09	1.00	1.157	1.00	200.00	200.00	0.653	0.653	1.00
43	21:58	1.00	1.262	1.00	100.00	100.00	0.482	0.482	1.00
44	11:00	1.00	0.632	1.00	100.00	100.00	0.521	0.521	1.00

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Instrument ID: 5100 Calibration date: 04/02/91 Time: 1152

Lab File ID: A0402BK02 Init. Calib. Date(s): 04/01/91 04/01/91

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

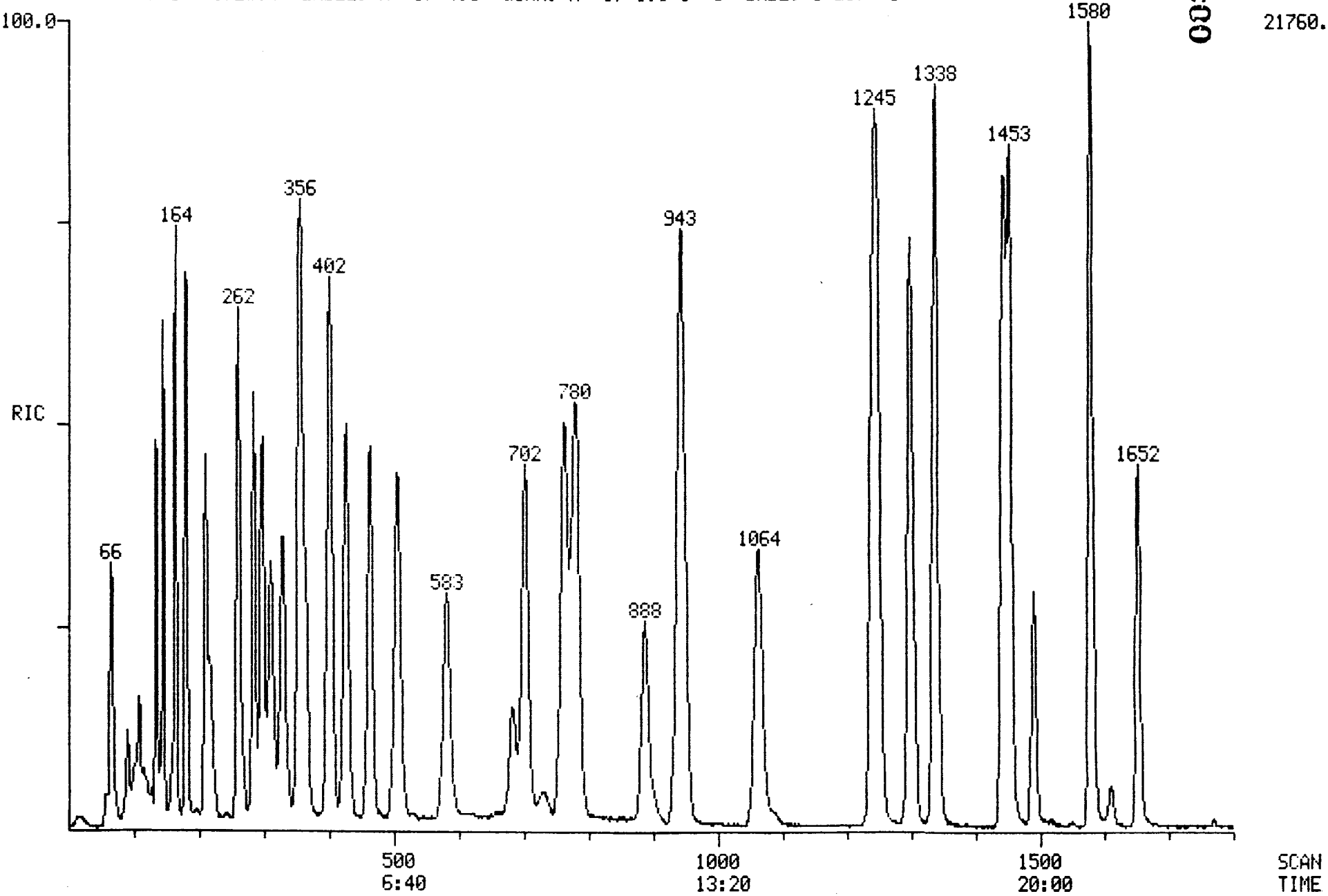
Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	0.412	0.453	-10.0	#
Bromomethane		0.357	0.383	-7.3	
Vinyl Chloride	*	0.554	0.539	2.7	*
Chloroethane		0.229	0.267	-16.6	
Methylene Chloride		1.418	1.500	-5.8	
Acetone		0.359	0.507	-41.2	
Carbon Disulfide		3.622	3.757	-3.7	
1,1-Dichloroethene	*	0.854	0.915	-7.1	*
1,1-Dichloroethane	#	3.522	3.529	-0.2	#
1,2-Dichloroethene (total)		1.404	1.387	1.2	
Chloroform	*	3.141	3.211	-2.2	*
1,2-Dichloroethane		0.443	0.453	-2.3	
2-Butanone		0.038	0.036	5.3	
1,1,1-Trichloroethane		2.027	1.946	4.0	
Carbon Tetrachloride		0.382	0.350	8.4	
Vinyl Acetate		0.635	0.567	10.7	
Bromodichloromethane		0.613	0.579	5.5	
1,2-Dichloropropane	*	0.586	0.601	-2.6	*
cis-1,3-Dichloropropene		0.340	0.322	5.3	
Trichloroethene		0.416	0.426	-2.4	
Dibromochloromethane		0.497	0.517	-4.0	
1,1,2-Trichloroethane		0.322	0.333	-3.4	
Benzene		1.093	1.118	-2.3	
trans-1,3-Dichloropropene		0.944	0.938	0.6	
Bromoform	#	0.442	0.373	15.6	#
4-Methyl-2-Pentanone		0.417	0.400	4.1	
2-Hexanone		0.370	0.316	14.6	
Tetrachloroethene		0.416	0.438	-5.3	
1,1,2,2-Tetrachloroethane	#	0.661	0.667	-0.9	#
Toluene	*	1.068	1.120	-4.9	*
Chlorobenzene	#	0.988	1.004	-1.6	#
Ethylbenzene	*	0.457	0.470	-2.8	*
Styrene		0.988	0.936	5.3	
Xylene (total)		0.579	0.568	1.9	
Toluene-d8		0.529	0.524	0.9	
Bromofluorobenzene		0.532	0.523	1.7	
1,2-Dichloroethane-d4		0.191	0.189	1.0	

VSTD 50

RIC
04/02/91 11:52:00
SAMPLE: PURGE STD + GASES + HSL + SUR + INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0402BK02 #1 SCANS 1 TO 1800
CALI: A0402BK02 #3



005672

Quantitation Report File: A0402BK02

Data: A0402BK02.TI
04/02/91 11:52:00
Sample: PURGE STD + GASES + HSL + SUR + INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	285	3:48	1	1.000	A BB	7980.	50.000	UG/L	2.11
2	50	91	1:13	1	0.319	A BB	3616.	50.000	UG/L	2.11
3	94	105	1:24	1	0.368	A BB	3055.	50.000	UG/L	2.11
4	62	92	1:14	1	0.323	A BB	4301.	50.000	UG/L	2.11
5	64	105	1:24	1	0.368	A VB	2133.	50.000	UG/L	2.11
6	84	164	2:11	1	0.575	A BB	11973.	50.000	UG/L	2.11
7	43	142	1:54	1	0.498	A BB	4050.	50.000	UG/L	2.11
8	76	146	1:57	1	0.512	A BV	29977.	50.000	UG/L	2.11
9	96	135	1:48	1	0.474	A BB	7300.	50.000	UG/L	2.11
10	63	211	2:49	1	0.740	A BB	28158.	50.000	UG/L	2.11
11	83	297	3:58	1	1.042	A BB	25624.	50.000	UG/L	2.11
12	97	311	4:09	1	1.091	A BB	15532.	50.000	UG/L	2.11
13	101	109	1:27	1	0.382	A BV	4019.	50.000	UG/L	2.11
14	96	180	2:24	1	0.632	A BB	11066.	50.000	UG/L	2.11
15	96	262	3:30	1	0.919	A BB	15380.	58.700	UG/L	2.48
16	114	427	5:42	16	1.000	A BB	36030.	50.000	UG/L	2.11
17	62	366	4:53	16	0.857	A BB	16320.	50.000	UG/L	2.11
18	72	269	3:35	16	0.630	A BB	1309.	50.000	UG/L	2.11
19	117	329	4:23	16	0.770	A BB	12606.	50.000	UG/L	2.11
20	43	218	2:54	16	0.511	A BB	20440.	50.000	UG/L	2.11
21	83	582	7:46	16	1.363	A BB	20864.	50.000	UG/L	2.11
22	63	506	6:45	16	1.185	A BB	21660.	50.000	UG/L	2.11
23	75	888	11:50	16	2.080	A BB	13906.	60.000	UG/L	2.53
24	130	464	6:11	16	1.087	A BB	15334.	50.000	UG/L	2.11
25	78	357	4:46	16	0.836	A BB	40281.	50.000	UG/L	2.11
26	106	685	9:08	16	1.604	A BB	1548.	50.000	UG/L	2.11
27	65	355	4:44	16	0.831	A BB	13629.	100.000	%	4.22
28	117	1241	16:33	28	1.000	A BB	37767.	50.000	UG/L	2.11
29	129	1062	14:10	28	0.856	A BB	19510.	50.000	UG/L	2.11
30	97	941	12:33	28	0.758	A BB	12577.	50.000	UG/L	2.11
31	75	702	9:22	28	0.566	A BB	28339.	40.000	UG/L	1.69
32	43	1066	14:13	28	0.859	A BB	11946.	50.000	UG/L	2.11
33	43	774	10:19	28	0.624	A BB	15099.	50.000	UG/L	2.11
34	164	944	12:35	28	0.761	A BB	16550.	50.000	UG/L	2.11
35	83	1652	22:02	28	1.331	A BB	25204.	50.000	UG/L	2.11
36	91	782	10:26	28	0.630	A BB	42286.	50.000	UG/L	2.11
37	112	1248	16:38	28	1.006	A BB	37909.	50.000	UG/L	2.11
38	106	1299	17:19	28	1.047	A BB	17746.	50.000	UG/L	2.11
39	104	1453	19:22	28	1.171	A BB	35365.	50.000	UG/L	2.11
40	106	1338	17:50	28	1.078	A BB	25622.	60.600	UG/L	2.56
41	106	1443	19:14	28	1.163	A BB	21433.	50.000	UG/L	2.11
42	173	1490	19:52	16	3.489	A BB	13452.	50.000	UG/L	2.11
43	95	1580	21:04	28	1.273	A BB	39489.	100.000	%	4.22
44	98	762	10:10	28	0.614	A BB	39581.	100.000	%	4.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:48	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:13	1.00	0.319	1.00	50.00	50.00	0.453	0.453	1.00
3	1:24	1.00	0.368	1.00	50.00	50.00	0.383	0.383	1.00
4	1:14	1.00	0.323	1.00	50.00	50.00	0.539	0.539	1.00
5	1:24	1.00	0.368	1.00	50.00	50.00	0.267	0.267	1.00
6	2:11	1.00	0.575	1.00	50.00	50.00	1.500	1.500	1.00
7	1:54	1.00	0.498	1.00	50.00	50.00	0.507	0.507	1.00
8	1:57	1.00	0.512	1.00	50.00	50.00	3.757	3.757	1.00
9	1:48	1.00	0.474	1.00	50.00	50.00	0.915	0.915	1.00
10	2:49	1.00	0.740	1.00	50.00	50.00	3.529	3.529	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	3:58	1.00	1.042	1.00	50.00	50.00	3.211	3.211	1.00
12	4:09	1.00	1.091	1.00	50.00	50.00	1.946	1.946	1.00
13	1:27	1.00	0.382	1.00	50.00	50.00	0.504	0.504	1.00
14	2:24	1.00	0.632	1.00	50.00	50.00	1.387	1.387	1.00
15	3:30	1.00	0.919	1.00	58.70	58.70	1.642	1.642	1.00
16	5:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	4:53	1.00	0.857	1.00	50.00	50.00	0.453	0.453	1.00
18	3:35	1.00	0.630	1.00	50.00	50.00	0.036	0.036	1.00
19	4:23	1.00	0.770	1.00	50.00	50.00	0.350	0.350	1.00
20	2:54	1.00	0.511	1.00	50.00	50.00	0.567	0.567	1.00
21	7:46	1.00	1.363	1.00	50.00	50.00	0.579	0.579	1.00
22	6:45	1.00	1.185	1.00	50.00	50.00	0.601	0.601	1.00
23	11:50	1.00	2.080	1.00	60.00	60.00	0.322	0.322	1.00
24	6:11	1.00	1.087	1.00	50.00	50.00	0.426	0.426	1.00
25	4:46	1.00	0.836	1.00	50.00	50.00	1.118	1.118	1.00
26	9:08	1.00	1.604	1.00	50.00	50.00	0.043	0.043	1.00
27	4:44	1.00	0.831	1.00	100.00	100.00	0.189	0.189	1.00
28	16:33	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
29	14:10	1.00	0.856	1.00	50.00	50.00	0.517	0.517	1.00
30	12:33	1.00	0.758	1.00	50.00	50.00	0.333	0.333	1.00
31	9:22	1.00	0.566	1.00	40.00	40.00	0.938	0.938	1.00
32	14:13	1.00	0.859	1.00	50.00	50.00	0.316	0.316	1.00
33	10:19	1.00	0.624	1.00	50.00	50.00	0.400	0.400	1.00
34	12:35	1.00	0.761	1.00	50.00	50.00	0.438	0.438	1.00
35	18:02	1.00	1.331	1.00	50.00	50.00	0.667	0.667	1.00
36	10:26	1.00	0.630	1.00	50.00	50.00	1.120	1.120	1.00
37	16:38	1.00	1.006	1.00	50.00	50.00	1.004	1.004	1.00
[illegible]	[illegible]	1.00	1.047	1.00	50.00	50.00	0.470	0.470	1.00
[illegible]	[illegible]	1.00	1.171	1.00	50.00	50.00	0.936	0.936	1.00
[illegible]	[illegible]	1.00	1.078	1.00	60.60	60.60	0.560	0.560	1.00
41	19:14	1.00	1.163	1.00	50.00	50.00	0.568	0.568	1.00
42	19:52	1.00	3.489	1.00	50.00	50.00	0.373	0.373	1.00
43	21:04	1.00	1.273	1.00	100.00	100.00	0.523	0.523	1.00
44	10:10	1.00	0.614	1.00	100.00	100.00	0.524	0.524	1.00

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Instrument ID: 5100 Calibration date: 04/03/91 Time: 1004

Lab File ID: A0403BK02 Init. Calib. Date(s): 04/01/91 04/01/91

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

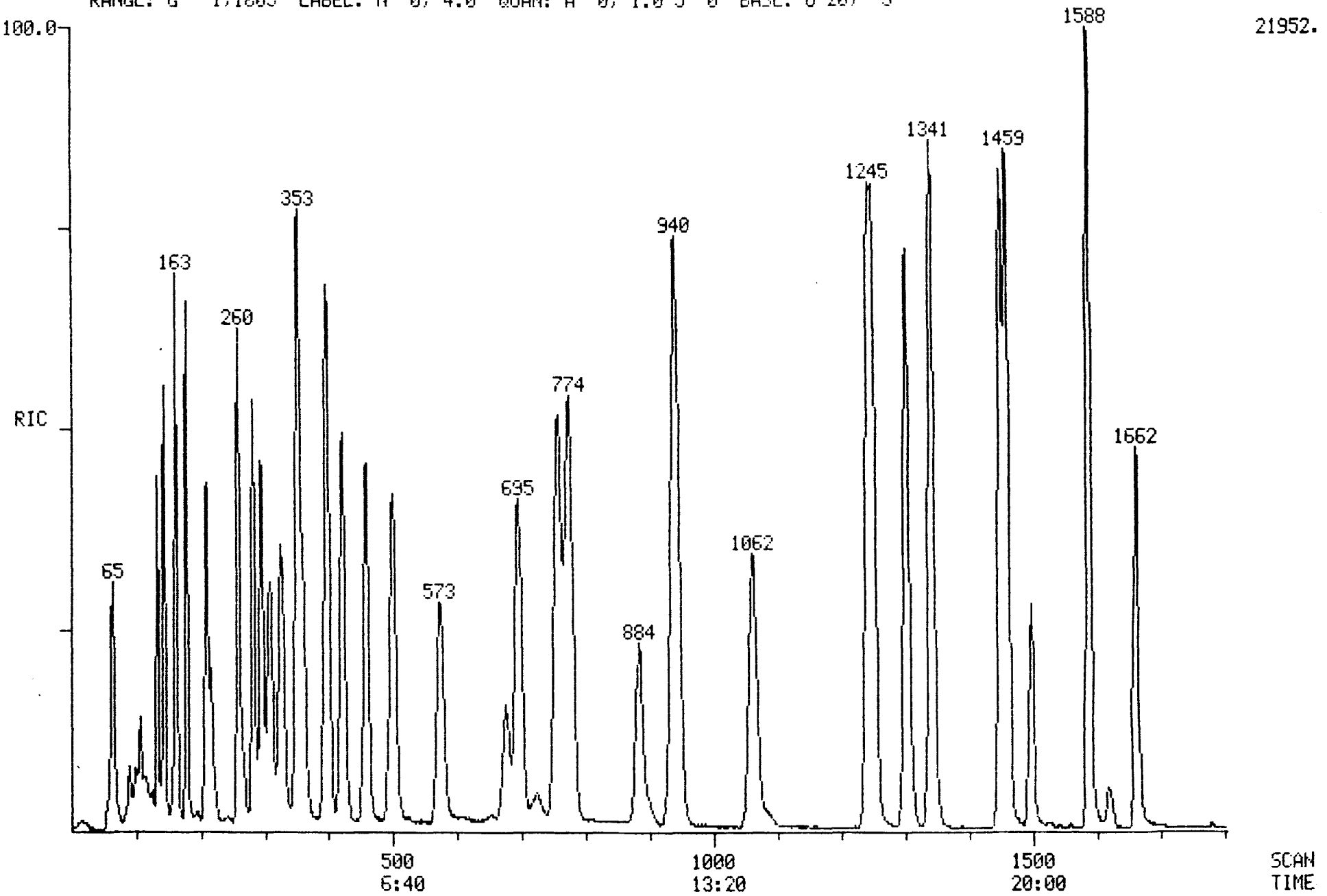
Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	0.412	0.303	26.5	#
Bromomethane		0.357	0.363	-1.7	
Vinyl Chloride	*	0.554	0.431	22.2	*
Chloroethane		0.229	0.250	-9.2	
Methylene Chloride		1.418	1.521	-7.3	
Acetone		0.359	0.443	-23.4	
Carbon Disulfide		3.622	3.615	0.2	
1,1-Dichloroethene	*	0.854	0.893	-4.6	*
1,1-Dichloroethane	#	3.522	3.588	-1.9	#
1,2-Dichloroethene (total)		1.404	1.440	-2.6	
Chloroform	*	3.141	3.289	-4.7	*
1,2-Dichloroethane		0.443	0.454	-2.5	
2-Butanone		0.038	0.040	-5.3	
1,1,1-Trichloroethane		2.027	1.952	3.7	
Carbon Tetrachloride		0.382	0.347	9.2	
Vinyl Acetate		0.635	0.539	15.1	
Bromodichloromethane		0.613	0.572	6.7	
1,2-Dichloropropane	*	0.586	0.587	-0.2	*
cis-1,3-Dichloropropene		0.340	0.315	7.4	
Trichloroethene		0.416	0.432	-3.8	
Dibromochloromethane		0.497	0.471	5.2	
1,1,2-Trichloroethane		0.322	0.322	0.0	
Benzene		1.093	1.109	-1.5	
trans-1,3-Dichloropropene		0.944	0.935	1.0	
Bromoform	#	0.442	0.369	16.5	#
4-Methyl-2-Pentanone		0.417	0.437	-4.8	
2-Hexanone		0.370	0.360	2.7	
Tetrachloroethene		0.416	0.462	-11.1	
1,1,2,2-Tetrachloroethane	#	0.661	0.697	-5.4	#
Toluene	*	1.068	1.125	-5.3	*
Chlorobenzene	#	0.988	1.044	-5.7	#
Ethylbenzene	*	0.457	0.485	-6.1	*
Styrene		0.988	0.974	1.4	
Xylene (total)		0.579	0.591	-2.1	
Toluene-d8		0.529	0.552	-4.3	
Bromofluorobenzene		0.532	0.548	-3.0	
1,2-Dichloroethane-d4		0.191	0.198	-3.7	

VSTD50

009677

RIC DATA: A0403BK02 #1 SCANS 1 TO 1803
04/03/91 10:04:00 CALI: A0403BK02 #3
SAMPLE: PURGE STD + GASES + HSL + SUR + INT
CONDS.: LC, DB-624
RANGE: G 1,1803 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: A0403BK02

Data: A0403BK02.TI
04/03/91 10:04:00
Sample: PURGE STD + GASES + HSL + SUR + INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	283	3:46	1	1.000	A BB	7379.	50.000	UG/L	2.11
2	50	90	1:12	1	0.318	A BB	2233.	50.000	UG/L	2.11
3	94	101	1:21	1	0.357	A*BB	2678.	50.000	UG/L	2.11
4	62	91	1:13	1	0.322	A BB	3179.	50.000	UG/L	2.11
5	64	100	1:20	1	0.353	A VB	1845.	50.000	UG/L	2.11
6	84	163	2:10	1	0.576	A BB	11222.	50.000	UG/L	2.11
7	43	141	1:53	1	0.498	A BB	3266.	50.000	UG/L	2.11
8	76	145	1:56	1	0.512	A BB	26675.	50.000	UG/L	2.11
9	96	134	1:47	1	0.473	A BB	6590.	50.000	UG/L	2.11
10	63	210	2:48	1	0.742	A BB	26474.	50.000	UG/L	2.11
11	83	296	3:57	1	1.046	A BB	24273.	50.000	UG/L	2.11
12	97	309	4:07	1	1.092	A BB	14403.	50.000	UG/L	2.11
13	101	108	1:26	1	0.382	A BV	2995.	50.000	UG/L	2.11
14	96	179	2:23	1	0.633	A BB	10629.	50.000	UG/L	2.11
15	96	260	3:28	1	0.919	A BB	14596.	58.700	UG/L	2.48
16	114	422	5:38	16	1.000	A BB	34400.	50.000	UG/L	2.11
17	62	361	4:49	16	0.855	A BB	15623.	50.000	UG/L	2.11
18	72	266	3:33	16	0.630	A BB	1391.	50.000	UG/L	2.11
19	117	326	4:21	16	0.773	A BB	11946.	50.000	UG/L	2.11
20	43	217	2:54	16	0.514	A BB	18525.	50.000	UG/L	2.11
21	83	573	7:38	16	1.358	A BB	19670.	50.000	UG/L	2.11
22	63	499	6:39	16	1.182	A BB	20182.	50.000	UG/L	2.11
23	75	883	11:46	16	2.092	A BB	12996.	60.000	UG/L	2.53
24	130	458	6:06	16	1.085	A BB	14869.	50.000	UG/L	2.11
25	78	354	4:43	16	0.839	A BB	38143.	50.000	UG/L	2.11
26	106	675	9:00	16	1.600	A BB	1566.	50.000	UG/L	2.11
27	65	351	4:41	16	0.832	A BB	13600.	100.000	%	4.22
28	117	1242	16:34	28	1.000	A BB	37043.	50.000	UG/L	2.11
29	129	1061	14:09	28	0.854	A BB	17433.	50.000	UG/L	2.11
30	97	938	12:30	28	0.755	A BB	11946.	50.000	UG/L	2.11
31	75	694	9:15	28	0.559	A BB	27709.	40.000	UG/L	1.69
32	43	1064	14:11	28	0.857	A BB	13340.	50.000	UG/L	2.11
33	43	769	10:15	28	0.619	A BB	16206.	50.000	UG/L	2.11
34	164	941	12:33	28	0.758	A BB	17120.	50.000	UG/L	2.11
35	83	1662	22:10	28	1.338	A BB	25832.	50.000	UG/L	2.11
36	91	775	10:20	28	0.624	A BB	41684.	50.000	UG/L	2.11
37	112	1250	16:40	28	1.006	A BB	38659.	50.000	UG/L	2.11
38	106	1303	17:22	28	1.049	A BB	17953.	50.000	UG/L	2.11
39	104	1460	19:28	28	1.176	A BB	36069.	50.000	UG/L	2.11
40	106	1341	17:53	28	1.080	A BB	25741.	60.600	UG/L	2.56
41	106	1450	19:20	28	1.167	A BB	21880.	50.000	UG/L	2.11
42	173	1497	19:58	16	3.547	A BB	12695.	50.000	UG/L	2.11
43	95	1589	21:11	28	1.279	A BB	40631.	100.000	%	4.22
44	98	756	10:05	28	0.609	A BB	40872.	100.000	%	4.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:46	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:12	1.00	0.318	1.00	50.00	50.00	0.303	0.303	1.00
3	1:21	1.00	0.357	1.00	50.00	50.00	0.363	0.363	1.00
4	1:13	1.00	0.322	1.00	50.00	50.00	0.431	0.431	1.00
5	1:20	1.00	0.353	1.00	50.00	50.00	0.250	0.250	1.00
6	2:10	1.00	0.576	1.00	50.00	50.00	1.521	1.521	1.00
7	1:53	1.00	0.498	1.00	50.00	50.00	0.443	0.443	1.00
8	1:56	1.00	0.512	1.00	50.00	50.00	3.615	3.615	1.00
9	1:47	1.00	0.473	1.00	50.00	50.00	0.893	0.893	1.00
10	2:48	1.00	0.742	1.00	50.00	50.00	3.588	3.588	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
11	3:57	1.00	1.046	1.00	50.00	50.00	3.289	3.289	1.00
12	4:07	1.00	1.092	1.00	50.00	50.00	1.952	1.952	1.00
13	1:26	1.00	0.382	1.00	50.00	50.00	0.406	0.406	1.00
14	2:23	1.00	0.633	1.00	50.00	50.00	1.440	1.440	1.00
15	3:28	1.00	0.919	1.00	58.70	58.70	1.685	1.685	1.00
16	5:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	4:49	1.00	0.855	1.00	50.00	50.00	0.454	0.454	1.00
18	3:33	1.00	0.630	1.00	50.00	50.00	0.040	0.040	1.00
19	4:21	1.00	0.773	1.00	50.00	50.00	0.347	0.347	1.00
20	2:54	1.00	0.514	1.00	50.00	50.00	0.539	0.539	1.00
21	7:38	1.00	1.358	1.00	50.00	50.00	0.572	0.572	1.00
22	6:39	1.00	1.182	1.00	50.00	50.00	0.587	0.587	1.00
23	11:46	1.00	2.092	1.00	60.00	60.00	0.315	0.315	1.00
24	6:06	1.00	1.085	1.00	50.00	50.00	0.432	0.432	1.00
25	4:43	1.00	0.839	1.00	50.00	50.00	1.109	1.109	1.00
26	9:00	1.00	1.600	1.00	50.00	50.00	0.046	0.046	1.00
27	4:41	1.00	0.832	1.00	100.00	100.00	0.198	0.198	1.00
28	16:34	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
29	14:09	1.00	0.854	1.00	50.00	50.00	0.471	0.471	1.00
30	12:30	1.00	0.755	1.00	50.00	50.00	0.322	0.322	1.00
31	9:15	1.00	0.559	1.00	40.00	40.00	0.935	0.935	1.00
32	14:11	1.00	0.857	1.00	50.00	50.00	0.360	0.360	1.00
33	10:15	1.00	0.619	1.00	50.00	50.00	0.437	0.437	1.00
34	12:33	1.00	0.758	1.00	50.00	50.00	0.462	0.462	1.00
35	22:10	1.00	1.338	1.00	50.00	50.00	0.697	0.697	1.00
36	10:20	1.00	0.624	1.00	50.00	50.00	1.125	1.125	1.00
37	16:40	1.00	1.006	1.00	50.00	50.00	1 044	1.044	1.00
38	17:22	1.00	1.049	1.00	50.00	50.00	0.485	0.485	1.00
39	19:28	1.00	1.176	1.00	50.00	50.00	0.974	0.974	1.00
40	17:53	1.00	1.080	1.00	60.60	60.60	0.573	0.573	1.00
41	19:20	1.00	1.167	1.00	50.00	50.00	0.591	0.591	1.00
42	19:58	1.00	3.547	1.00	50.00	50.00	0.369	0.369	1.00
43	21:11	1.00	1.279	1.00	100.00	100.00	0.548	0.548	1.00
44	10:05	1.00	0.609	1.00	100.00	100.00	0.552	0.552	1.00

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Instrument ID: 5100 Calibration date: 03/29/91 Time: 1019

Lab File ID: B0329LC02 Init. Calib. Date(s): 03/14/91 03/14/91

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

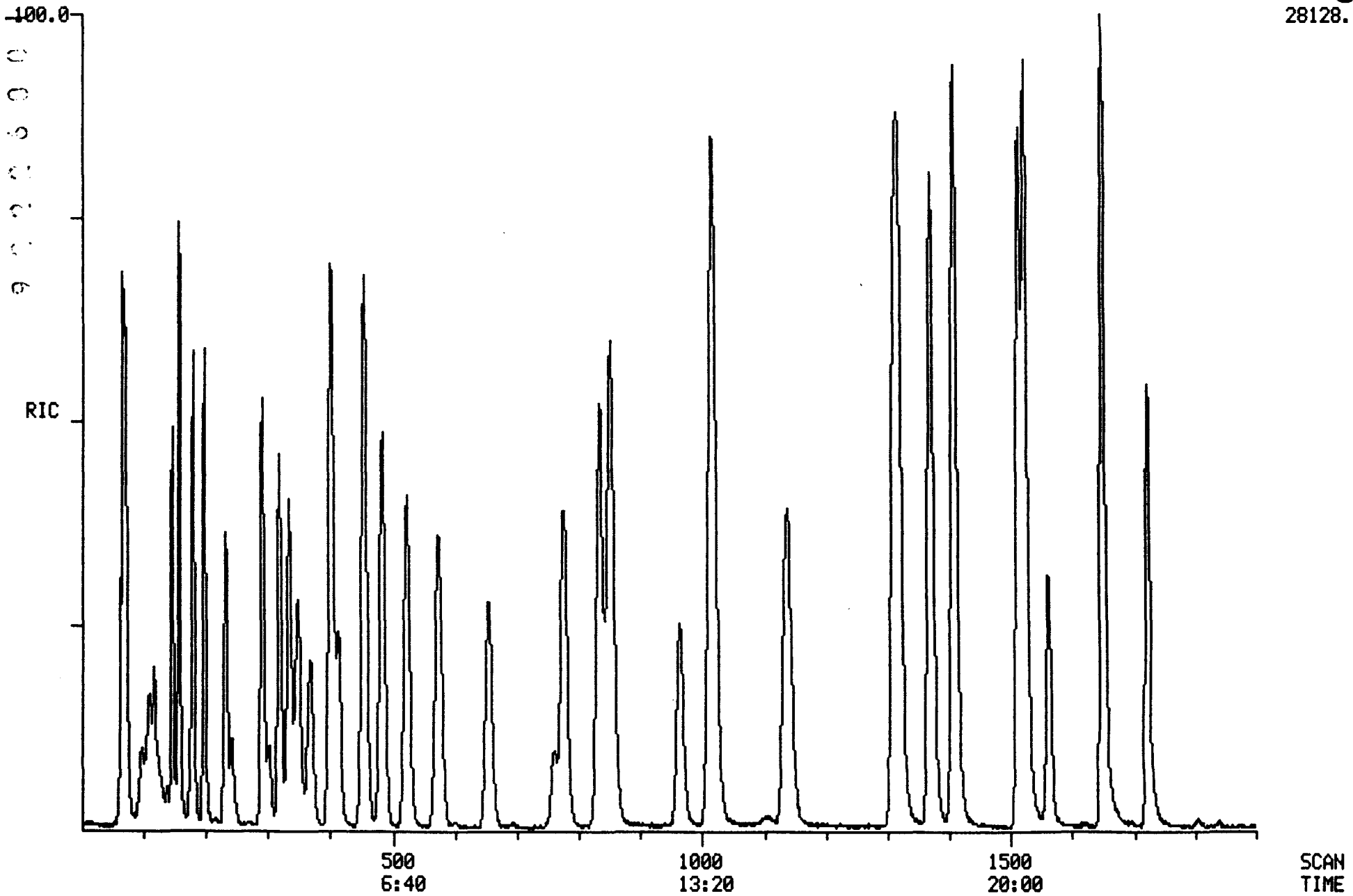
Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.463	0.530	-14.5	#
Bromomethane		0.662	0.796	-20.2	
Vinyl Chloride	*	0.696	0.834	-19.8	*
Chloroethane		0.456	0.521	-14.2	
Methylene Chloride		1.516	1.484	2.1	
Acetone		0.545	0.622	-14.1	
Carbon Disulfide		4.828	5.139	-6.4	
1,1-Dichloroethene	*	1.148	1.295	-12.8	*
1,1-Dichloroethane	#	3.201	3.077	3.9	#
1,2-Dichloroethene (total)		1.673	1.589	5.0	
Chloroform	*	3.128	3.124	0.1	*
1,2-Dichloroethane		0.341	0.337	1.2	
2-Butanone		0.047	0.048	-2.1	
1,1,1-Trichloroethane		1.944	2.093	-7.7	
Carbon Tetrachloride		0.276	0.275	0.4	
Vinyl Acetate		0.344	0.244	29.1	
Bromodichloromethane		0.556	0.551	0.9	
1,2-Dichloropropane	*	0.491	0.451	8.1	*
cis-1,3-Dichloropropene		0.652	0.608	6.7	
Trichloroethene		0.391	0.374	4.3	
Dibromochloromethane		0.445	0.441	0.9	
1,1,2-Trichloroethane		0.380	0.425	-11.8	
Benzene		1.097	1.002	8.7	
trans-1,3-Dichloropropene		0.487	0.518	-6.4	
Bromoform	#	0.359	0.372	-3.6	#
4-Methyl-2-Pentanone		0.430	0.350	18.6	
2-Hexanone		0.435	0.473	-8.7	
Tetrachloroethene		0.347	0.367	-5.8	
1,1,2,2-Tetrachloroethane	#	0.709	0.740	-4.4	#
Toluene	*	1.223	0.999	18.3	*
Chlorobenzene	#	0.975	1.047	-7.4	#
Ethylbenzene	*	0.494	0.526	-6.5	*
Styrene		1.063	1.070	-0.7	
Xylene (total)		0.638	0.627	1.7	
Toluene-d8		0.527	0.501	4.9	
Bromofluorobenzene		0.472	0.518	-9.7	
1,2-Dichloroethane-d4		0.148	0.152	-2.7	

000681

VSTD 50

RIC DATA: B0329LC02 #1 SCANS 1 TO 1900
03/29/91 10:19:00 CALI: B0329LC02 #3
SAMPLE: PURGE STD + GASES + HSL + SUR + INT
CONDS.: LC, DB-624
RANGE: G 1,1907 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



000652

Quantitation Report File: B0329LC02

Data: B0329LC02.TI
03/29/91 10:19:00
Sample: PURGE STD + GASES + HSL + SUR + INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	319	4:15	1	1.000	A BB	10651.	50.000 UG/G	2.11
2	50	97	1:18	1	0.304	A BB	5647.	50.000 UG/G	2.11
3	94	109	1:27	1	0.342	A BB	8476.	50.000 UG/G	2.11
4	62	99	1:19	1	0.310	A BB	8886.	50.000 UG/G	2.11
5	64	111	1:29	1	0.348	A VB	5548.	50.000 UG/G	2.11
6	84	179	2:23	1	0.561	A BB	15806.	50.000 UG/G	2.11
7	43	155	2:04	1	0.486	A BB	6625.	50.000 UG/G	2.11
8	76	157	2:06	1	0.492	A BB	54734.	50.000 UG/G	2.11
9	96	146	1:57	1	0.458	A BB	13798.	50.000 UG/G	2.11
10	63	233	3:06	1	0.730	A BB	32778.	50.000 UG/G	2.11
11	83	334	4:27	1	1.047	A BB	33274.	50.000 UG/G	2.11
12	97	348	4:38	1	1.091	A BB	22290.	50.000 UG/G	2.11
13	101	118	1:34	1	0.370	A BB	10548.	50.000 UG/G	2.11
14	96	197	2:38	1	0.618	A BB	16922.	50.000 UG/G	2.11
15	96	291	3:53	1	0.912	A BB	21377.	58.700 UG/G	2.48
16	114	484	6:27	16	1.000	A BB	53247.	50.000 UG/G	2.11
17	62	413	5:30	16	0.853	A BB	17962.	50.000 UG/G	2.11
18	72	302	4:02	16	0.624	A BB	2541.	50.000 UG/G	2.11
19	117	368	4:54	16	0.760	A BB	14658.	50.000 UG/G	2.11
20	43	243	3:14	16	0.502	A BB	12982.	50.000 UG/G	2.11
21	83	655	8:44	16	1.353	A BB	29329.	50.000 UG/G	2.11
22	63	573	7:38	16	1.184	A BB	24030.	50.000 UG/G	2.11
23	75	775	10:20	16	1.601	A BB	38872.	60.000 UG/G	2.53
24	130	523	6:58	16	1.081	A BB	19895.	50.000 UG/G	2.11
25	78	401	5:21	16	0.829	A BB	53371.	50.000 UG/G	2.11
26	106	760	10:08	16	1.570	A BB	1822.	50.000 UG/G	2.11
27	65	400	5:20	16	0.826	A BB	16168.	100.000 %	4.22
28	173	1563	20:50	16	3.229	A BB	19828.	50.000 UG/G	2.11
29	117	1312	17:30	29	1.000	A BB	55952.	50.000 UG/G	2.11
30	129	1136	15:09	29	0.866	A BB	24687.	50.000 UG/G	2.11
31	97	1018	13:34	29	0.776	A BB	23790.	50.000 UG/G	2.11
32	75	965	12:52	29	0.736	A BB	23189.	40.000 UG/G	1.69
33	43	1141	15:13	29	0.870	A BB	26440.	50.000 UG/G	2.11
34	43	851	11:21	29	0.649	A BB	19602.	50.000 UG/G	2.11
35	164	1016	13:33	29	0.774	A BB	20536.	50.000 UG/G	2.11
36	83	1725	23:00	29	1.315	A BB	41386.	50.000 UG/G	2.11
37	91	853	11:22	29	0.650	A BB	55923.	50.000 UG/G	2.11
38	112	1319	17:35	29	1.005	A BB	58557.	50.000 UG/G	2.11
39	106	1372	18:18	29	1.046	A BB	29436.	50.000 UG/G	2.11
40	104	1525	20:20	29	1.162	A BB	59855.	50.000 UG/G	2.11
41	106	1409	18:47	29	1.074	A BB	43156.	60.600 UG/G	2.56
42	106	1515	20:12	29	1.155	A BB	35080.	50.000 UG/G	2.11
43	95	1650	22:00	29	1.258	A BB	57950.	100.000 %	4.22
44	98	835	11:08	29	0.636	A BB	56097.	100.000 %	4.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:15	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:18	1.00	0.304	1.00	50.00	50.00	0.530	0.530	1.00
3	1:27	1.00	0.342	1.00	50.00	50.00	0.796	0.796	1.00
4	1:19	1.00	0.310	1.00	50.00	50.00	0.834	0.834	1.00
5	1:29	1.00	0.348	1.00	50.00	50.00	0.521	0.521	1.00
6	2:23	1.00	0.561	1.00	50.00	50.00	1.484	1.484	1.00
7	2:04	1.00	0.486	1.00	50.00	50.00	0.622	0.622	1.00
8	2:06	1.00	0.492	1.00	50.00	50.00	5.139	5.139	1.00
9	1:57	1.00	0.458	1.00	50.00	50.00	1.295	1.295	1.00
10	3:06	1.00	0.730	1.00	50.00	50.00	3.077	3.077	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	4:27	1.00	1.047	1.00	50.00	50.00	3.124	3.124	1.00
12	4:38	1.00	1.091	1.00	50.00	50.00	2.093	2.093	1.00
13	1:34	1.00	0.370	1.00	50.00	50.00	0.990	0.990	1.00
14	2:38	1.00	0.618	1.00	50.00	50.00	1.589	1.589	1.00
15	3:53	1.00	0.912	1.00	58.70	58.70	1.710	1.710	1.00
16	6:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	5:30	1.00	0.853	1.00	50.00	50.00	0.337	0.337	1.00
18	4:02	1.00	0.624	1.00	50.00	50.00	0.048	0.048	1.00
19	4:54	1.00	0.760	1.00	50.00	50.00	0.275	0.275	1.00
20	3:14	1.00	0.502	1.00	50.00	50.00	0.244	0.244	1.00
21	8:44	1.00	1.353	1.00	50.00	50.00	0.551	0.551	1.00
22	7:38	1.00	1.184	1.00	50.00	50.00	0.451	0.451	1.00
23	10:20	1.00	1.601	1.00	60.00	60.00	0.608	0.608	1.00
24	6:58	1.00	1.081	1.00	50.00	50.00	0.374	0.374	1.00
25	5:21	1.00	0.829	1.00	50.00	50.00	1.002	1.002	1.00
26	10:08	1.00	1.570	1.00	50.00	50.00	0.034	0.034	1.00
27	5:20	1.00	0.826	1.00	100.00	100.00	0.152	0.152	1.00
28	20:50	1.00	3.229	1.00	50.00	50.00	0.372	0.372	1.00
29	17:30	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	15:09	1.00	0.866	1.00	50.00	50.00	0.441	0.441	1.00
31	13:34	1.00	0.776	1.00	50.00	50.00	0.425	0.425	1.00
32	12:52	1.00	0.736	1.00	40.00	40.00	0.518	0.518	1.00
33	15:13	1.00	0.870	1.00	50.00	50.00	0.473	0.473	1.00
34	11:21	1.00	0.649	1.00	50.00	50.00	0.350	0.350	1.00
35	13:33	1.00	0.774	1.00	50.00	50.00	0.367	0.367	1.00
36	23:00	1.00	1.315	1.00	50.00	50.00	0.740	0.740	1.00
37	11:22	1.00	0.650	1.00	50.00	50.00	0.999	0.999	1.00
38	17:35	1.00	1.005	1.00	50.00	50.00	1.047	1.047	1.00
39	18:18	1.00	1.046	1.00	50.00	50.00	0.526	0.526	1.00
40	20:20	1.00	1.162	1.00	50.00	50.00	1.070	1.070	1.00
41	18:47	1.00	1.074	1.00	60.60	60.60	0.636	0.636	1.00
42	20:12	1.00	1.155	1.00	50.00	50.00	0.627	0.627	1.00
43	22:00	1.00	1.258	1.00	100.00	100.00	0.518	0.518	1.00
44	11:08	1.00	0.636	1.00	100.00	100.00	0.501	0.501	1.00

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Instrument ID: 5100 Calibration date: 04/01/91 Time: 1018

Lab File ID: B0401LC02 Init. Calib. Date(s): 03/14/91 03/14/91

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

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

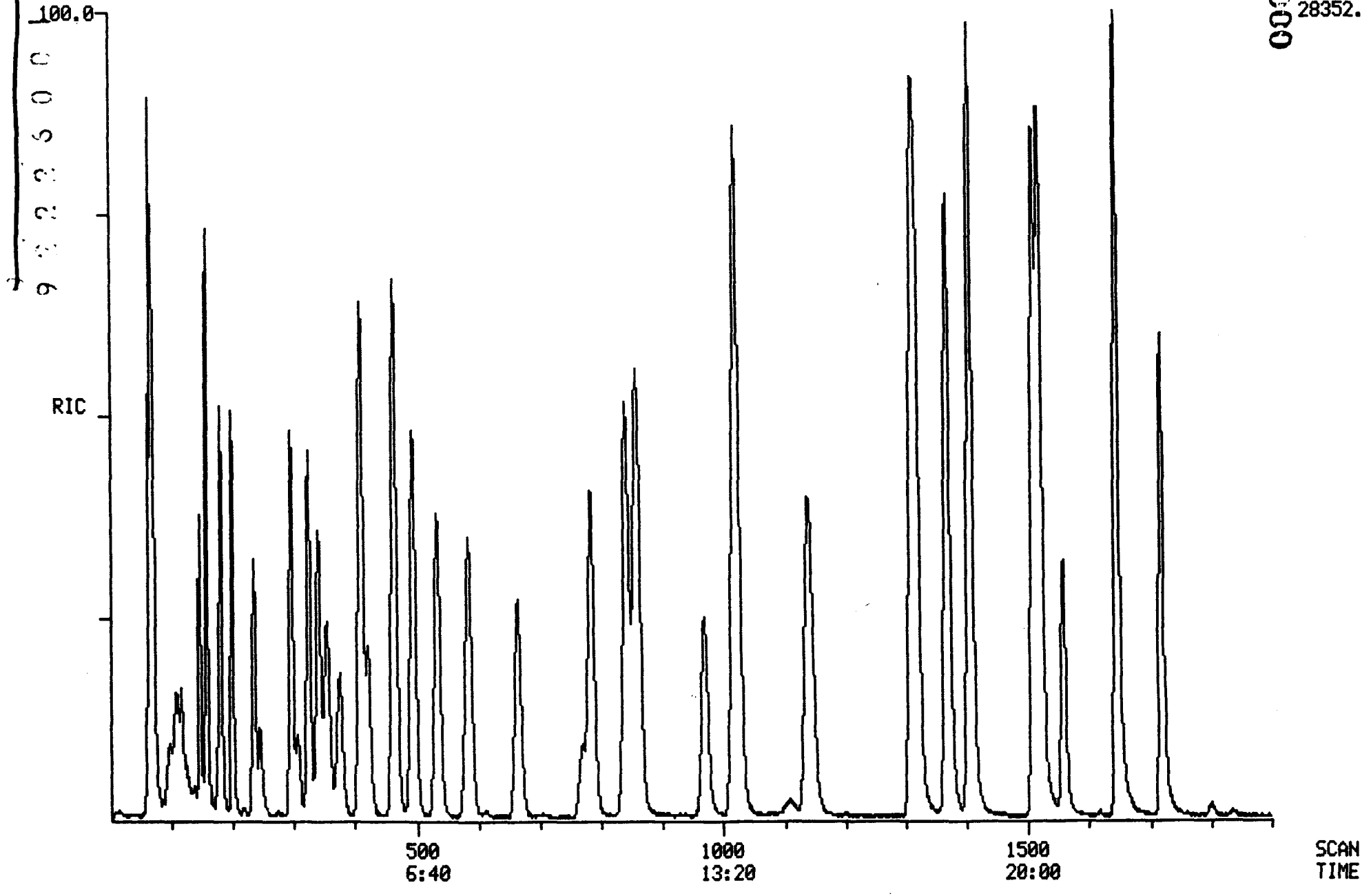
COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	0.463	0.462	0.2	#
Bromomethane		0.662	0.686	-3.6	
Vinyl Chloride	*	0.696	0.703	-1.0	*
Chloroethane		0.456	0.449	1.5	
Methylene Chloride		1.516	1.263	16.7	
Acetone		0.545	0.636	-16.7	
Carbon Disulfide		4.828	4.887	-1.2	
1,1-Dichloroethene	*	1.148	0.942	17.9	*
1,1-Dichloroethane	#	3.201	2.655	17.1	#
1,2-Dichloroethene (total)		1.673	1.273	23.9	
Chloroform	*	3.128	2.708	13.4	*
1,2-Dichloroethane		0.341	0.318	6.7	
2-Butanone		0.047	0.050	-6.4	
1,1,1-Trichloroethane		1.944	1.765	9.2	
Carbon Tetrachloride		0.276	0.240	13.0	
Vinyl Acetate		0.344	0.257	25.3	
Bromodichloromethane		0.556	0.535	3.8	
1,2-Dichloropropane	*	0.491	0.437	11.0	*
cis-1,3-Dichloropropene		0.652	0.596	8.6	
Trichloroethene		0.391	0.348	11.0	
Dibromochloromethane		0.445	0.443	0.4	
1,1,2-Trichloroethane		0.380	0.395	-3.9	
Benzene		1.097	0.928	15.4	
trans-1,3-Dichloropropene		0.487	0.476	2.3	
Bromoform	#	0.359	0.385	-7.2	#
4-Methyl-2-Pentanone		0.430	0.342	20.5	
2-Hexanone		0.435	0.443	-1.8	
Tetrachloroethene		0.347	0.339	2.3	
1,1,2,2-Tetrachloroethane	#	0.709	0.761	-7.3	#
Toluene	*	1.223	0.918	24.9	*
Chlorobenzene	#	0.975	0.998	-2.4	#
Ethylbenzene	*	0.494	0.494	0.0	*
Styrene		1.063	1.029	3.2	
Xylene (total)		0.638	0.617	3.3	
Toluene-d8		0.527	0.486	7.8	
Bromofluorobenzene		0.472	0.507	-7.4	
1,2-Dichloroethane-d4		0.148	0.145	2.0	

000686

VSTD50

RIC
04/01/91 10:18:00
SAMPLE: PURGE STD + GASES + HSL + SUR + INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0401LC02 #1 SCANS 1 TO 1900
CALI: B0401LC02 #3



000567

PROCEDURE: TCA DIAGNOSTIC REPORT 4/01/91 10:50:34
DATA FILE: B0401LC02
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 4
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	15	2	70	CLSRT1/CLSTC1
1	1	1	0	13	13	2	373	CLSRT2/CLSTC2
1	1	1	0	16	16	8	124	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 44 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT ><							------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	-319	324	324	.	1	976	.	128	325	1	1
2	CS	2	-97	96	97	1	1	969	.	50	97	.	1
3	CS	3	-109	108	108	.	1	915	.	94	108	.	1
4	CS	4	-99	98	99	1	1	956	.	62	99	.	1
5	CS	5	-111	111	109	-2	1	997	.	64	109	.	1
6	CS	6	-179	180	181	1	1	981	.	84	181	.	1
7	CS	7	-155	156	156	.	2	969	.	43	156	.	1
8	CS	8	-157	158	158	.	1	980	.	76	158	.	1
9	CS	9	-146	146	147	1	1	988	.	96	147	.	1
10	CS	10	-233	236	235	-1	1	988	.	63	235	.	1
11	CS	12	-334	340	340	.	1	991	.	83	341	1	1
12	CS	13	-348	354	354	.	1	994	.	97	354	.	1
13	CS	14	-118	118	117	-1	1	989	.	101	117	.	1
14	CS	15	-197	199	199	.	1	991	.	96	199	.	1
15	CS	16	-291	296	296	.	1	993	.	96	296	.	1
16	CS	17	-484	495	495	.	1	997	.	114	495	.	1
17	CS	18	-413	422	422	.	1	973	.	62	422	.	1
18	CS	19	-302	311	307	-4	2	974	.	72	306	-1	1
19	CS	20	-368	377	375	-2	1	1000	.	117	375	.	1
20	CS	21	-243	253	245	-8	1	985	.	43	245	.	1
21	CS	22	-655	662	665	3	1	992	.	83	664	-1	1
22	CS	23	-573	580	584	4	1	976	.	63	584	.	1
23	CS	24	-775	781	784	3	1	993	.	75	784	.	1
24	CS	25	-523	531	533	2	1	986	.	130	533	.	1
25	CS	27	-401	410	410	.	1	992	.	78	410	.	1
26	CS	28	-760	766	768	2	1	995	.	106	768	.	1
27	CS	29	-400	409	410	1	1	925	.	65	410	.	1
28	CS	43	-1563	1564	1559	-5	1	983	.	173	1559	.	1
29	CS	30	-1312	1312	1312	.	1	996	.	117	1312	.	1
30	CS	26	-1136	1139	1139	.	2	985	.	129	1140	1	1
31	CS	31	-1018	1022	1021	-1	2	993	.	97	1021	.	1
32	CS	32	-965	970	970	.	1	927	.	75	969	-1	1
33	CS	33	-1141	1144	1146	2	1	960	.	43	1145	-1	1
34	CS	34	-851	858	858	.	1	964	.	43	859	1	1
35	CS	35	-1016	1020	1021	1	1	975	.	164	1021	.	1
36	CS	36	-1725	1720	1720	.	1	993	.	83	1720	.	1
37	CS	37	-853	860	859	-1	1	995	.	91	860	1	1
38	CS	38	-1319	1319	1321	2	1	990	.	112	1321	.	1
39	CS	39	-1372	1371	1370	-1	1	994	.	106	1370	.	1
40	CS	40	-1525	1522	1521	-1	2	995	.	104	1521	.	1
41	CS	41	-1409	1408	1407	-1	1	995	.	106	1407	.	1
42	CS	42	-1515	1512	1511	-1	1	994	.	106	1512	1	1
43	CS	44	-1650	1646	1647	1	1	986	.	95	1647	.	1
44	CS	45	-835	842	841	-1	1	993	.	98	841	.	1

Quantitation Report File: B0401LC02

Data: B0401LC02.TI
04/01/91 10:18:00
Sample: PURGE STD + GASES + HSL + SUR + INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	325	4:20	1	1.000	A BB	11093.	50.000 UG/G	2.11
2	50	97	1:18	1	0.298	A BB	5123.	50.000 UG/G	2.11
3	94	108	1:26	1	0.332	A BB	7607.	50.000 UG/G	2.11
4	62	99	1:19	1	0.305	A BB	7799.	50.000 UG/G	2.11
5	64	109	1:27	1	0.335	A VB	4981.	50.000 UG/G	2.11
6	84	181	2:25	1	0.557	A BB	14014.	50.000 UG/G	2.11
7	43	156	2:05	1	0.480	A BB	7056.	50.000 UG/G	2.11
8	76	158	2:06	1	0.486	A BB	54206.	50.000 UG/G	2.11
9	96	147	1:58	1	0.452	A BB	10451.	50.000 UG/G	2.11
10	63	235	3:08	1	0.723	A BB	29451.	50.000 UG/G	2.11
11	83	341	4:33	1	1.049	A BB	30043.	50.000 UG/G	2.11
12	97	354	4:43	1	1.089	A BB	19576.	50.000 UG/G	2.11
13	101	117	1:34	1	0.360	A BB	6405.	50.000 UG/G	2.11
14	96	199	2:39	1	0.612	A BB	14121.	50.000 UG/G	2.11
15	96	296	3:57	1	0.911	A BB	20085.	58.700 UG/G	2.48
16	114	495	6:36	16	1.000	A BB	53370.	50.000 UG/G	2.11
17	62	422	5:38	16	0.853	A BB	16973.	50.000 UG/G	2.11
18	72	306	4:05	16	0.618	A BB	2682.	50.000 UG/G	2.11
19	117	375	5:00	16	0.758	A BB	12810.	50.000 UG/G	2.11
20	43	245	3:16	16	0.495	A BB	13711.	50.000 UG/G	2.11
21	83	664	8:51	16	1.341	A BB	28555.	50.000 UG/G	2.11
22	63	584	7:47	16	1.180	A BB	23303.	50.000 UG/G	2.11
23	75	784	10:27	16	1.584	A BB	38173.	60.000 UG/G	2.53
24	130	533	7:06	16	1.077	A BB	18591.	50.000 UG/G	2.11
25	78	410	5:28	16	0.828	A BB	49551.	50.000 UG/G	2.11
26	106	768	10:14	16	1.552	A BB	1578.	50.000 UG/G	2.11
27	65	410	5:28	16	0.828	A BB	15505.	100.000 %	4.22
28	173	1559	20:47	16	3.149	A BB	20563.	50.000 UG/G	2.11
29	117	1312	17:30	29	1.000	A BB	57778.	50.000 UG/G	2.11
30	129	1140	15:12	29	0.869	A BB	25617.	50.000 UG/G	2.11
31	97	1021	13:37	29	0.778	A BB	22814.	50.000 UG/G	2.11
32	75	969	12:55	29	0.739	A BB	22008.	40.000 UG/G	1.69
33	43	1145	15:16	29	0.873	A BB	25597.	50.000 UG/G	2.11
34	43	859	11:27	29	0.655	A BB	19745.	50.000 UG/G	2.11
35	164	1021	13:37	29	0.778	A BB	19604.	50.000 UG/G	2.11
36	83	1720	22:56	29	1.311	A BB	43992.	50.000 UG/G	2.11
37	91	860	11:28	29	0.655	A BB	53044.	50.000 UG/G	2.11
38	112	1321	17:37	29	1.007	A BB	57685.	50.000 UG/G	2.11
39	106	1370	18:16	29	1.044	A BB	28533.	50.000 UG/G	2.11
40	104	1521	20:17	29	1.159	A BB	59473.	50.000 UG/G	2.11
41	106	1407	18:46	29	1.072	A BB	42807.	60.600 UG/G	2.56
42	106	1512	20:10	29	1.152	A BB	35628.	50.000 UG/G	2.11
43	95	1647	21:58	29	1.255	A BB	58548.	100.000 %	4.22
44	98	841	11:13	29	0.641	A BB	56214.	100.000 %	4.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:20	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:18	1.00	0.298	1.00	50.00	50.00	0.462	0.462	1.00
3	1:26	1.00	0.332	1.00	50.00	50.00	0.686	0.686	1.00
4	1:19	1.00	0.305	1.00	50.00	50.00	0.703	0.703	1.00
5	1:27	1.00	0.335	1.00	50.00	50.00	0.449	0.449	1.00
6	2:25	1.00	0.557	1.00	50.00	50.00	1.263	1.263	1.00
7	2:05	1.00	0.480	1.00	50.00	50.00	0.636	0.636	1.00
8	2:06	1.00	0.486	1.00	50.00	50.00	4.887	4.887	1.00
9	1:58	1.00	0.452	1.00	50.00	50.00	0.942	0.942	1.00
10	3:08	1.00	0.723	1.00	50.00	50.00	2.655	2.655	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
11	4:33	1.00	1.049	1.00	50.00	50.00	2.708	2.708	1.00
12	4:43	1.00	1.089	1.00	50.00	50.00	1.765	1.765	1.00
13	1:34	1.00	0.360	1.00	50.00	50.00	0.577	0.577	1.00
14	2:39	1.00	0.612	1.00	50.00	50.00	1.273	1.273	1.00
15	3:57	1.00	0.911	1.00	58.70	58.70	1.542	1.542	1.00
16	6:36	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	5:38	1.00	0.853	1.00	50.00	50.00	0.318	0.318	1.00
18	4:05	1.00	0.618	1.00	50.00	50.00	0.050	0.050	1.00
19	5:00	1.00	0.758	1.00	50.00	50.00	0.240	0.240	1.00
20	3:16	1.00	0.495	1.00	50.00	50.00	0.257	0.257	1.00
21	8:51	1.00	1.341	1.00	50.00	50.00	0.535	0.535	1.00
22	7:47	1.00	1.180	1.00	50.00	50.00	0.437	0.437	1.00
23	10:27	1.00	1.584	1.00	60.00	60.00	0.596	0.596	1.00
24	7:06	1.00	1.077	1.00	50.00	50.00	0.348	0.348	1.00
25	5:28	1.00	0.828	1.00	50.00	50.00	0.928	0.928	1.00
26	10:14	1.00	1.552	1.00	50.00	50.00	0.030	0.030	1.00
27	5:28	1.00	0.828	1.00	100.00	100.00	0.145	0.145	1.00
28	20:47	1.00	3.149	1.00	50.00	50.00	0.385	0.385	1.00
29	17:30	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	15:12	1.00	0.869	1.00	50.00	50.00	0.443	0.443	1.00
31	13:37	1.00	0.778	1.00	50.00	50.00	0.395	0.395	1.00
32	12:55	1.00	0.739	1.00	40.00	40.00	0.476	0.476	1.00
33	15:16	1.00	0.873	1.00	50.00	50.00	0.443	0.443	1.00
34	11:27	1.00	0.655	1.00	50.00	50.00	0.342	0.342	1.00
35	13:37	1.00	0.778	1.00	50.00	50.00	0.339	0.339	1.00
36	22:56	1.00	1.311	1.00	50.00	50.00	0.761	0.761	1.00
37	11:28	1.00	0.655	1.00	50.00	50.00	0.918	0.918	1.00
38	17:37	1.00	1.007	1.00	50.00	50.00	0.998	0.998	1.00
39	18:16	1.00	1.044	1.00	50.00	50.00	0.494	0.494	1.00
40	20:17	1.00	1.159	1.00	50.00	50.00	1.029	1.029	1.00
41	18:46	1.00	1.072	1.00	60.60	60.60	0.611	0.611	1.00
42	20:10	1.00	1.152	1.00	50.00	50.00	0.617	0.617	1.00
43	21:58	1.00	1.255	1.00	100.00	100.00	0.507	0.507	1.00
44	11:13	1.00	0.641	1.00	100.00	100.00	0.486	0.486	1.00

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Instrument ID: 5100 Calibration date: 04/02/91 Time: 1003

Lab File ID: B0402LC02 Init. Calib. Date(s): 03/14/91 03/14/91

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

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

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.463	0.447	3.5	#
Bromomethane		0.662	0.800	-20.8	
Vinyl Chloride	*	0.696	0.746	-7.2	*
Chloroethane		0.456	0.507	-11.2	
Methylene Chloride		1.516	1.526	-0.7	
Acetone		0.545	0.572	-5.0	
Carbon Disulfide		4.828	4.823	0.1	
1,1-Dichloroethene	*	1.148	1.321	-15.1	*
1,1-Dichloroethane	#	3.201	3.210	-0.3	#
1,2-Dichloroethene (total)		1.673	1.591	4.9	
Chloroform	*	3.128	3.039	2.8	*
1,2-Dichloroethane		0.341	0.358	-5.0	
2-Butanone		0.047	0.047	0.0	
1,1,1-Trichloroethane		1.944	2.029	-4.4	
Carbon Tetrachloride		0.276	0.276	0.0	
Vinyl Acetate		0.344	0.231	32.8	
Bromodichloromethane		0.556	0.547	1.6	
1,2-Dichloropropane	*	0.491	0.482	1.8	*
cis-1,3-Dichloropropene		0.652	0.626	4.0	
Trichloroethene		0.391	0.380	2.8	
Dibromochloromethane		0.445	0.420	5.6	
1,1,2-Trichloroethane		0.380	0.379	0.3	
Benzene		1.097	1.080	1.6	
trans-1,3-Dichloropropene		0.487	0.456	6.4	
Bromoform	#	0.359	0.362	-0.8	#
4-Methyl-2-Pentanone		0.430	0.431	-0.2	
2-Hexanone		0.435	0.403	7.4	
Tetrachloroethene		0.347	0.353	-1.7	
1,1,2,2-Tetrachloroethane	#	0.709	0.657	7.3	#
Toluene	*	1.223	1.291	-5.6	*
Chlorobenzene	#	0.975	0.942	3.4	#
Ethylbenzene	*	0.494	0.489	1.0	*
Styrene		1.063	1.014	4.6	
Xylene (total)		0.638	0.617	3.3	
Toluene-d8		0.527	0.572	-8.5	
Bromofluorobenzene		0.472	0.494	-4.7	
1,2-Dichloroethane-d4		0.148	0.155	-4.7	

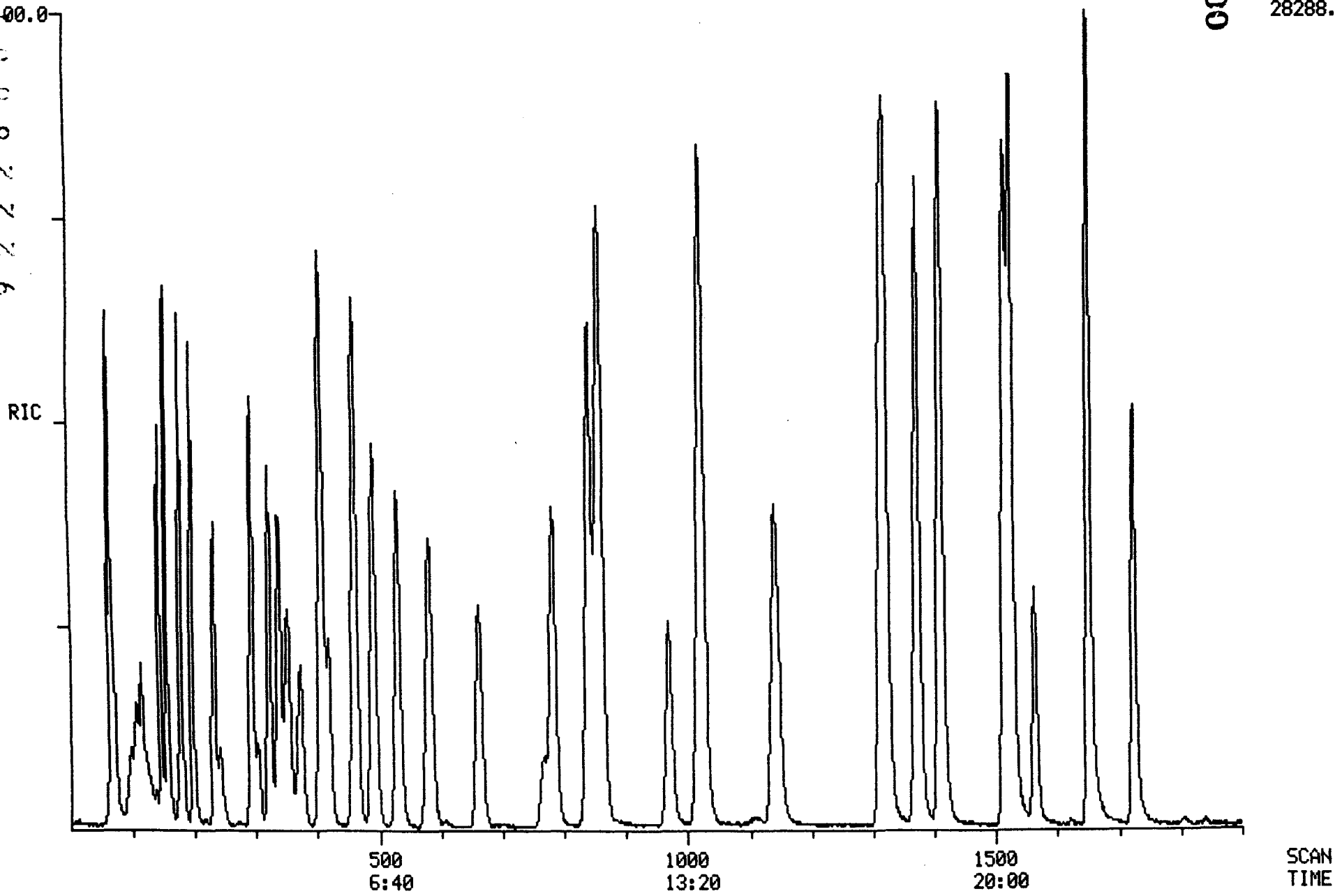
000692

VSTD50

RIC
04/02/91 10:03:00
SAMPLE: PURGE STD + GASES + HSL + SUR + INT
CONDS.: LC, DB-624
RANGE: G 1,1902 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC02 #1 SCANS 1 TO 1900
CALI: B0402LC02 #3

000693



PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 11:54:52
DATA FILE: B0402LC02
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	15	12	53	CLSRT1/CLSTC1
1	1	1	0	13	11	4	549	CLSRT2/CLSTC2
1	1	1	0	16	16	4	111	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 42 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT ><							------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	-325	322	322	.	1	973	.	128	322	.	1
2	CS	2	-97	97	98	1	1	983	.	50	98	.	1
3	CS	3	-108	108	108	.	1	905	.	94	108	.	1
4	CS	4	-99	99	99	.	2	970	.	62	100	1	1
5	CS	5	-109	109	110	1	3	997	.	64	110	.	1
6	CS	6	-181	180	180	.	1	981	.	84	180	.	1
7	CS	7	-156	156	155	-1	1	968	.	43	155	.	1
8	CS	8	-158	158	158	.	1	979	.	76	158	.	1
9	CS	9	-147	147	146	-1	1	987	.	96	146	.	1
10	CS	10	-235	234	234	.	1	991	.	63	234	.	1
11	CS	12	-341	338	338	.	1	992	.	83	339	1	1
12	CS	13	-354	351	352	1	1	992	.	97	351	-1	1
13	CS	14	-117	117	117	.	2	1000	.	101	117	.	1
14	CS	15	-199	198	198	.	1	987	.	96	198	.	1
15	CS	16	-296	294	294	.	1	993	.	96	294	.	1
16	CS	17	-476	491	491	.	1	998	.	114	492	1	1
17	CS	18	-422	421	420	-1	2	972	.	62	419	-1	1
18	CS	19	-306	305	305	.	1	975	.	72	305	.	1
19	CS	20	-375	374	372	-2	1	997	.	117	372	.	1
20	CS	21	-245	244	244	.	1	993	.	43	244	.	1
21	CS	22	-664	664	.	.	.	.	.	83	662	.	1
22	CS	23	-584	584	582	-2	1	976	.	63	582	.	1
23	CS	24	-784	785	783	-2	1	996	.	75	783	.	1
24	CS	25	-533	533	531	-2	1	984	.	130	531	.	1
25	CS	27	-410	409	406	-3	1	994	.	78	406	.	1
26	CS	28	-768	769	.	.	.	.	.	106	769	.	1
27	CS	29	-410	409	407	-2	1	921	.	65	407	.	1
28	CS	43	-1559	1563	1563	.	2	986	.	173	1563	.	1
29	CS	30	-1312	1315	1315	.	1	999	.	117	1315	.	1
30	CS	26	-1140	1142	1141	-1	1	982	.	129	1140	-1	1
31	CS	31	-1021	1022	1022	.	1	987	.	97	1022	.	1
32	CS	32	-969	969	969	.	1	935	.	75	970	1	1
33	CS	33	-1145	1147	1147	.	1	956	.	43	1147	.	1
34	CS	34	-859	859	857	-2	1	957	.	43	858	1	1
35	CS	35	-1021	1022	1022	.	1	980	.	164	1022	.	1
36	CS	36	-1720	1726	1726	.	1	995	.	83	1726	.	1
37	CS	37	-860	860	859	-1	2	996	.	91	858	-1	1
38	CS	38	-1321	1324	1322	-2	1	990	.	112	1322	.	1
39	CS	39	-1370	1373	1374	1	1	997	.	106	1374	.	1
40	CS	40	-1521	1525	1527	2	1	995	.	104	1527	.	1
41	CS	41	-1407	1411	1411	.	2	995	.	106	1410	-1	1
42	CS	42	-1512	1516	1516	.	1	998	.	106	1516	.	1
43	CS	44	-1647	1652	1652	.	1	992	.	95	1652	.	1
44	CS	45	-841	840	843	3	1	994	.	98	842	-1	1

TCA FINISHED, 42 FOUND
FINISHED AT: 4/02/91 11:58:34
NO. 2 RACK NO. 15Quantitation Report File: B0402LC02

Data: B0402LC02.TI
04/02/91 10:03:00
Sample: PURGE STD + GASES + HSL + SUR + INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	322	4:18	1	1.000	A BB	10754.	50.000	UG/G	2.11
2	50	98	1:18	1	0.304	A BB	4802.	50.000	UG/G	2.11
3	94	108	1:26	1	0.335	A BB	8607.	50.000	UG/G	2.11
4	62	100	1:20	1	0.311	A BB	8018.	50.000	UG/G	2.11
5	64	110	1:28	1	0.342	A VB	5449.	50.000	UG/G	2.11
6	84	180	2:24	1	0.559	A BV	16408.	50.000	UG/G	2.11
7	43	155	2:04	1	0.481	A BB	6149.	50.000	UG/G	2.11
8	76	158	2:06	1	0.491	A BB	51863.	50.000	UG/G	2.11
9	96	146	1:57	1	0.453	A BB	14204.	50.000	UG/G	2.11
10	63	234	3:07	1	0.727	A BB	34522.	50.000	UG/G	2.11
11	83	339	4:31	1	1.053	A BB	32681.	50.000	UG/G	2.11
12	97	351	4:41	1	1.090	A BB	21821.	50.000	UG/G	2.11
13	101	117	1:34	1	0.363	A BV	6532.	50.000	UG/G	2.11
14	96	198	2:38	1	0.615	A BB	17108.	50.000	UG/G	2.11
15	96	294	3:55	1	0.913	A BB	21280.	58.700	UG/G	2.48
16	114	492	6:34	16	1.000	A BB	51891.	50.000	UG/G	2.11
17	62	419	5:35	16	0.852	A BB	18558.	50.000	UG/G	2.11
18	72	305	4:04	16	0.620	A BB	2462.	50.000	UG/G	2.11
19	117	372	4:58	16	0.756	A BB	14335.	50.000	UG/G	2.11
20	43	244	3:15	16	0.496	A BB	12011.	50.000	UG/G	2.11
21	83	662	8:50	16	1.346	A BB	28402.	50.000	UG/G	2.11
22	63	582	7:46	16	1.183	A BB	25021.	50.000	UG/G	2.11
23	75	783	10:26	16	1.591	A BB	38953.	60.000	UG/G	2.53
24	130	531	7:05	16	1.079	A BB	19696.	50.000	UG/G	2.11
25	78	406	5:25	16	0.825	A BB	56068.	50.000	UG/G	2.11
26	106	769	10:15	16	1.563	A BB	1454.	50.000	UG/G	2.11
27	65	407	5:26	16	0.827	A BB	16104.	100.000	%	4.22
28	173	1563	20:50	16	3.177	A BB	18800.	50.000	UG/G	2.11
29	117	1315	17:32	29	1.000	A BB	58256.	50.000	UG/G	2.11
30	129	1140	15:12	29	0.867	A BB	24462.	50.000	UG/G	2.11
31	97	1022	13:38	29	0.777	A BB	22081.	50.000	UG/G	2.11
32	75	970	12:56	29	0.738	A BB	21249.	40.000	UG/G	1.69
33	43	1147	15:18	29	0.872	A BB	23499.	50.000	UG/G	2.11
34	43	858	11:26	29	0.652	A BB	25089.	50.000	UG/G	2.11
35	164	1022	13:38	29	0.777	A BB	20584.	50.000	UG/G	2.11
36	83	1726	23:01	29	1.313	A BB	38300.	50.000	UG/G	2.11
37	91	858	11:26	29	0.652	A BB	75201.	50.000	UG/G	2.11
38	112	1322	17:38	29	1.005	A BB	54849.	50.000	UG/G	2.11
39	106	1374	18:19	29	1.045	A BB	28479.	50.000	UG/G	2.11
40	104	1527	20:22	29	1.161	A BB	59075.	50.000	UG/G	2.11
41	106	1410	18:48	29	1.072	A BB	42345.	60.600	UG/G	2.56
42	106	1516	20:13	29	1.153	A BB	35933.	50.000	UG/G	2.11
43	95	1652	22:02	29	1.256	A BB	57612.	100.000	%	4.22
44	98	842	11:14	29	0.640	A BB	66690.	100.000	%	4.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:18	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:18	1.00	0.304	1.00	50.00	50.00	0.447	0.447	1.00
3	1:26	1.00	0.335	1.00	50.00	50.00	0.800	0.800	1.00
4	1:20	1.00	0.311	1.00	50.00	50.00	0.746	0.746	1.00
5	1:28	1.00	0.342	1.00	50.00	50.00	0.507	0.507	1.00
6	2:24	1.00	0.559	1.00	50.00	50.00	1.526	1.526	1.00
7	2:04	1.00	0.481	1.00	50.00	50.00	0.572	0.572	1.00
8	2:06	1.00	0.491	1.00	50.00	50.00	4.823	4.823	1.00
9	1:57	1.00	0.453	1.00	50.00	50.00	1.321	1.321	1.00
10	3:07	1.00	0.727	1.00	50.00	50.00	3.210	3.210	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	4:31	1.00	1.053	1.00	50.00	50.00	3.039	3.039	1.00
12	4:41	1.00	1.090	1.00	50.00	50.00	2.029	2.029	1.00
13	1:34	1.00	0.363	1.00	50.00	50.00	0.607	0.607	1.00
14	2:38	1.00	0.615	1.00	50.00	50.00	1.591	1.591	1.00
15	3:55	1.00	0.913	1.00	58.70	58.70	1.686	1.686	1.00
16	6:34	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	5:35	1.00	0.852	1.00	50.00	50.00	0.358	0.358	1.00
18	4:04	1.00	0.620	1.00	50.00	50.00	0.047	0.047	1.00
19	4:58	1.00	0.756	1.00	50.00	50.00	0.276	0.276	1.00
20	3:15	1.00	0.496	1.00	50.00	50.00	0.231	0.231	1.00
21	8:50	1.00	1.346	1.00	50.00	50.00	0.547	0.547	1.00
22	7:46	1.00	1.183	1.00	50.00	50.00	0.482	0.482	1.00
23	10:26	1.00	1.591	1.00	60.00	60.00	0.626	0.626	1.00
24	7:05	1.00	1.079	1.00	50.00	50.00	0.380	0.380	1.00
25	5:25	1.00	0.825	1.00	50.00	50.00	1.080	1.080	1.00
26	10:15	1.00	1.563	1.00	50.00	50.00	0.028	0.028	1.00
27	5:26	1.00	0.827	1.00	100.00	100.00	0.155	0.155	1.00
28	20:50	1.00	3.177	1.00	50.00	50.00	0.362	0.362	1.00
29	17:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	15:12	1.00	0.867	1.00	50.00	50.00	0.420	0.420	1.00
31	13:38	1.00	0.777	1.00	50.00	50.00	0.379	0.379	1.00
32	12:56	1.00	0.738	1.00	40.00	40.00	0.456	0.456	1.00
33	15:18	1.00	0.872	1.00	50.00	50.00	0.403	0.403	1.00
34	11:26	1.00	0.652	1.00	50.00	50.00	0.431	0.431	1.00
35	13:38	1.00	0.777	1.00	50.00	50.00	0.353	0.353	1.00
36	23:01	1.00	1.313	1.00	50.00	50.00	0.657	0.657	1.00
37	11:26	1.00	0.652	1.00	50.00	50.00	1.291	1.291	1.00
38	17:38	1.00	1.005	1.00	50.00	50.00	0.942	0.942	1.00
39	18:19	1.00	1.045	1.00	50.00	50.00	0.489	0.489	1.00
40	20:22	1.00	1.161	1.00	50.00	50.00	1.014	1.014	1.00
41	18:48	1.00	1.072	1.00	60.60	60.60	0.600	0.600	1.00
42	20:13	1.00	1.153	1.00	50.00	50.00	0.617	0.617	1.00
43	22:02	1.00	1.256	1.00	100.00	100.00	0.494	0.494	1.00
44	11:14	1.00	0.640	1.00	100.00	100.00	0.572	0.572	1.00

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Instrument ID: 5100 Calibration date: 04/03/91 Time: 950

Lab File ID: B0403LC02 Init. Calib. Date(s): 03/14/91 03/14/91

Matrix:(soil/water) SOIL Level:(low/med) MED Column:(pack/cap) WIDE

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

COMPOUND		$\overline{RRF}$	RRF50	%D	
Chloromethane	#	0.463	0.518	-11.9	#
Bromomethane		0.662	0.789	-19.2	
Vinyl Chloride	*	0.696	0.759	-9.1	*
Chloroethane		0.456	0.519	-13.8	
Methylene Chloride		1.516	1.586	-4.6	
Acetone		0.545	0.625	-14.7	
Carbon Disulfide		4.828	4.926	-2.0	
1,1-Dichloroethene	*	1.148	1.326	-15.5	*
1,1-Dichloroethane	#	3.201	3.153	1.5	#
1,2-Dichloroethene (total)		1.673	1.634	2.3	
Chloroform	*	3.128	3.131	-0.1	*
1,2-Dichloroethane		0.341	0.335	1.8	
2-Butanone		0.047	0.045	4.3	
1,1,1-Trichloroethane		1.944	2.037	-4.8	
Carbon Tetrachloride		0.276	0.254	8.0	
Vinyl Acetate		0.344	0.227	34.0	
Bromodichloromethane		0.556	0.522	6.1	
1,2-Dichloropropane	*	0.491	0.457	6.9	*
cis-1,3-Dichloropropene		0.652	0.576	11.7	
Trichloroethene		0.391	0.371	5.1	
Dibromochloromethane		0.445	0.432	2.9	
1,1,2-Trichloroethane		0.380	0.370	2.6	
Benzene		1.097	1.065	2.9	
trans-1,3-Dichloropropene		0.487	0.467	4.1	
Bromoform	#	0.359	0.330	8.1	#
4-Methyl-2-Pentanone		0.430	0.402	6.5	
2-Hexanone		0.435	0.409	6.0	
Tetrachloroethene		0.347	0.339	2.3	
1,1,2,2-Tetrachloroethane	#	0.709	0.630	11.1	#
Toluene	*	1.223	1.238	-1.2	*
Chlorobenzene	#	0.975	0.946	3.0	#
Ethylbenzene	*	0.494	0.482	2.4	*
Styrene		1.063	0.987	7.2	
Xylene (total)		0.638	0.592	7.2	
Toluene-d8		0.527	0.665	-26.2	
Bromofluorobenzene		0.472	0.502	-6.4	
1,2-Dichloroethane-d4		0.148	0.144	2.7	

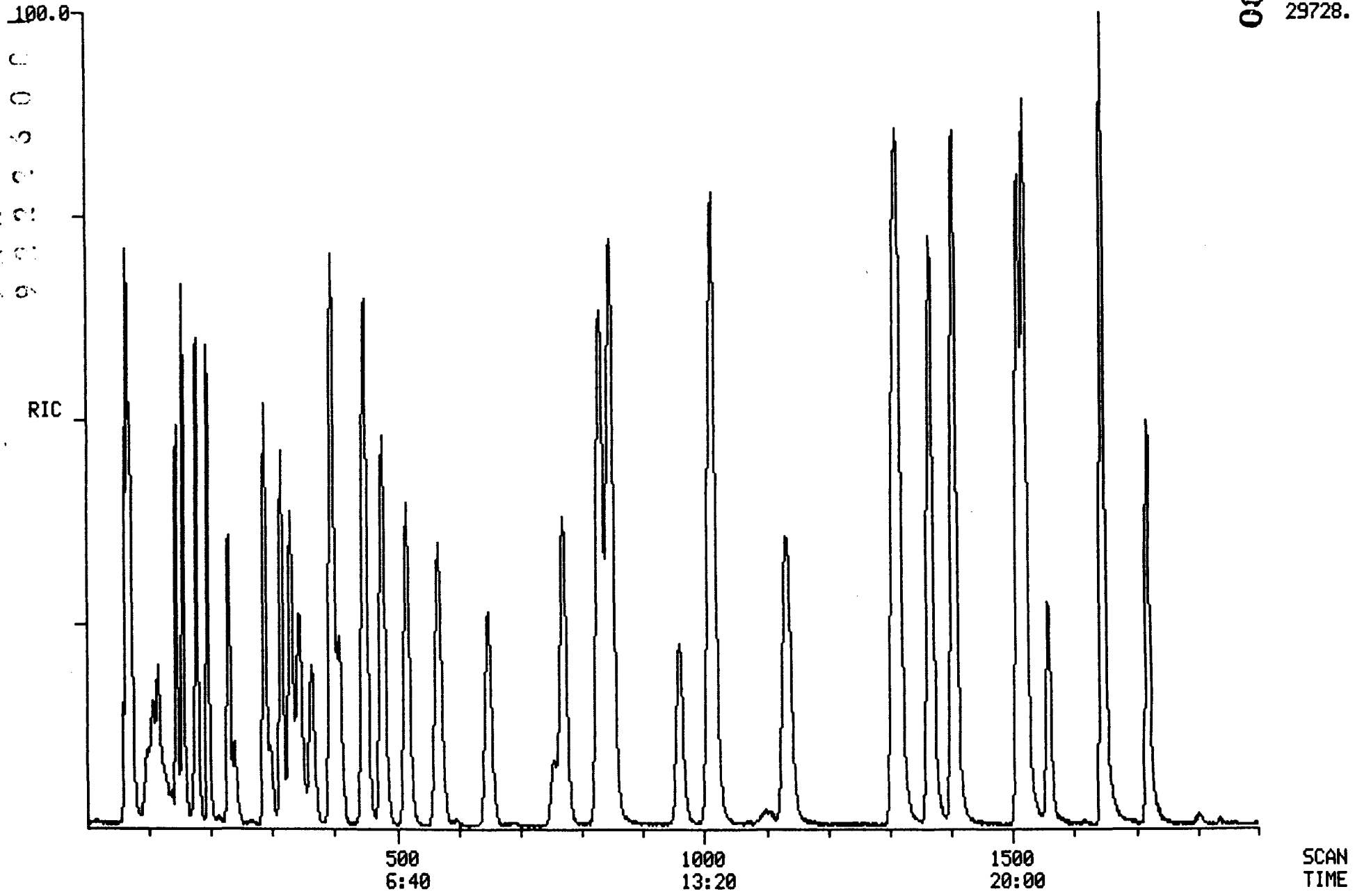
000698

VSTD50

RIC
04/03/91 9:50:00
SAMPLE: PURGE STD + GASES + HSL + SUR + INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0403LC02 #1 SCANS 1 TO 1900
CALI: B0403LC02 #3

659000



PROCEDURE: TCA DIAGNOSTIC REPORT 4/03/91 10:46:22
DATA FILE: B0403LC02
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 4
REPORT: CLSRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	15	24	69	CLSRT1/CLSTC1
1	1	1	0	13	13	8	375	CLSRT2/CLSTC2
1	1	1	0	16	16	4	116	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 44 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	-322	316	316	.	1	973	.	128	316	.	1
2	CS	2	-98	99	98	-1	1	985	.	50	98	.	1
3	CS	3	-108	108	109	1	2	927	.	94	109	.	1
4	CS	4	-100	101	101	.	2	981	.	62	101	.	1
5	CS	5	-110	110	109	-1	3	992	.	64	109	.	1
6	CS	6	-180	178	179	1	1	979	.	84	179	.	1
7	CS	7	-155	154	154	.	1	950	.	43	154	.	1
8	CS	8	-158	157	157	.	1	981	.	76	157	.	1
9	CS	9	-146	145	146	1	1	981	.	96	146	.	1
10	CS	10	-234	231	231	.	1	991	.	63	230	-1	1
11	CS	12	-339	332	331	-1	1	990	.	83	331	.	1
12	CS	13	-351	344	344	.	1	990	.	97	344	.	1
13	CS	14	-117	117	117	.	2	998	.	101	117	.	1
14	CS	15	-198	196	196	.	1	987	.	96	196	.	1
15	CS	16	-294	289	289	.	1	990	.	96	289	.	1
16	CS	17	-492	478	478	.	1	998	.	114	478	.	1
17	CS	18	-419	409	409	.	1	971	.	62	409	.	1
18	CS	19	-305	295	299	4	1	971	.	72	298	-1	1
19	CS	20	-372	362	365	3	2	997	.	117	364	-1	1
20	CS	21	-244	234	240	6	1	994	.	43	240	.	1
21	CS	22	-662	652	650	-2	1	994	.	83	650	.	1
22	CS	23	-582	572	569	-3	1	968	.	63	569	.	1
23	CS	24	-783	773	772	-1	2	995	.	75	770	-2	1
24	CS	25	-531	521	518	-3	1	984	.	130	518	.	1
25	CS	27	-406	396	398	2	1	993	.	78	398	.	1
26	CS	28	-769	759	755	-4	1	1000	.	106	756	1	1
27	CS	29	-407	397	396	-1	1	925	.	65	397	1	1
28	CS	43	-1563	1554	1559	5	2	987	.	173	1559	.	1
29	CS	30	-1315	1309	1309	.	1	996	.	117	1309	.	1
30	CS	26	-1140	1132	1132	.	1	988	.	129	1133	1	1
31	CS	31	-1022	1014	1014	.	2	991	.	97	1014	.	1
32	CS	32	-970	961	961	.	1	929	.	75	961	.	1
33	CS	33	-1147	1140	1139	-1	1	959	.	43	1137	-2	1
34	CS	34	-858	848	847	-1	1	961	.	43	848	1	1
35	CS	35	-1022	1014	1013	-1	1	980	.	164	1012	-1	1
36	CS	36	-1726	1723	1721	-2	1	997	.	83	1721	.	1
37	CS	37	-858	848	850	2	2	995	.	91	850	.	1
38	CS	38	-1322	1316	1318	2	1	989	.	112	1317	-1	1
39	CS	39	-1374	1368	1369	1	1	995	.	106	1368	-1	1
40	CS	40	-1527	1522	1522	.	1	995	.	104	1522	.	1
41	CS	41	-1410	1405	1406	1	1	996	.	106	1406	.	1
42	CS	42	-1516	1511	1512	1	1	996	.	106	1513	1	1
43	CS	44	-1652	1648	1648	.	1	993	.	95	1648	.	1
44	CS	45	-842	832	831	-1	1	994	.	98	831	.	1

TCA FINISHED, 44 FOUND
FINISHED AT: 4/03/91 10:52:10
Quantitation Report File: B0403LC02

Data: B0403LC02.TI
04/03/91 9:50:00
Sample: PURGE STD + GASES + HSL + SUR + INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	316	4:13	1	1.000	A BB	10793.	50.000 UG/G	2.11
2	50	98	1:18	1	0.310	A BB	5593.	50.000 UG/G	2.11
3	94	109	1:27	1	0.345	A BB	8512.	50.000 UG/G	2.11
4	62	101	1:21	1	0.320	A BB	8196.	50.000 UG/G	2.11
5	64	109	1:27	1	0.345	A VB	5600.	50.000 UG/G	2.11
6	84	179	2:23	1	0.566	A BB	17119.	50.000 UG/G	2.11
7	43	154	2:03	1	0.487	A BB	6743.	50.000 UG/G	2.11
8	76	157	2:06	1	0.497	A BB	53168.	50.000 UG/G	2.11
9	96	146	1:57	1	0.462	A BB	14314.	50.000 UG/G	2.11
10	63	230	3:04	1	0.728	A BB	34028.	50.000 UG/G	2.11
11	83	331	4:25	1	1.047	A BB	33792.	50.000 UG/G	2.11
12	97	344	4:35	1	1.089	A BB	21990.	50.000 UG/G	2.11
13	101	117	1:34	1	0.370	A BV	7030.	50.000 UG/G	2.11
14	96	196	2:37	1	0.620	A BB	17631.	50.000 UG/G	2.11
15	96	289	3:51	1	0.915	A BB	22393.	58.700 UG/G	2.48
16	114	478	6:22	16	1.000	A BB	55315.	50.000 UG/G	2.11
17	62	409	5:27	16	0.856	A BB	18525.	50.000 UG/G	2.11
18	72	298	3:58	16	0.623	A BB	2512.	50.000 UG/G	2.11
19	117	364	4:51	16	0.762	A BB	14041.	50.000 UG/G	2.11
20	43	240	3:12	16	0.502	A BB	12547.	50.000 UG/G	2.11
21	83	650	8:40	16	1.360	A BB	28887.	50.000 UG/G	2.11
22	63	569	7:35	16	1.190	A BB	25263.	50.000 UG/G	2.11
23	75	770	10:16	16	1.611	A BB	38264.	60.000 UG/G	2.53
24	130	518	6:54	16	1.084	A BB	20495.	50.000 UG/G	2.11
25	78	398	5:18	16	0.833	A BB	58891.	50.000 UG/G	2.11
26	106	756	10:05	16	1.582	A BB	1405.	50.000 UG/G	2.11
27	65	397	5:18	16	0.831	A BB	15963.	100.000 %	4.22
28	173	1559	20:47	16	3.262	A BB	18251.	50.000 UG/G	2.11
29	117	1309	17:27	29	1.000	A BB	59228.	50.000 UG/G	2.11
30	129	1133	15:06	29	0.866	A BB	25615.	50.000 UG/G	2.11
31	97	1014	13:31	29	0.775	A BB	21938.	50.000 UG/G	2.11
32	75	961	12:49	29	0.734	A BB	22128.	40.000 UG/G	1.69
33	43	1137	15:10	29	0.869	A BB	24195.	50.000 UG/G	2.11
34	43	848	11:18	29	0.648	A BB	23786.	50.000 UG/G	2.11
35	164	1012	13:30	29	0.773	A BB	20051.	50.000 UG/G	2.11
36	83	1721	22:57	29	1.315	A BB	37292.	50.000 UG/G	2.11
37	91	850	11:20	29	0.649	A BB	73345.	50.000 UG/G	2.11
38	112	1317	17:34	29	1.006	A BB	56033.	50.000 UG/G	2.11
39	106	1368	18:14	29	1.045	A BB	28531.	50.000 UG/G	2.11
40	104	1522	20:18	29	1.163	A BB	58454.	50.000 UG/G	2.11
41	106	1406	18:45	29	1.074	A BB	41340.	60.600 UG/G	2.56
42	106	1513	20:10	29	1.156	A BB	35037.	50.000 UG/G	2.11
43	95	1648	21:58	29	1.259	A BB	59475.	100.000 %	4.22
44	98	831	11:05	29	0.635	A BB	78790.	100.000 %	4.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:13	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	1:18	1.00	0.310	1.00	50.00	50.00	0.518	0.518	1.00
3	1:27	1.00	0.345	1.00	50.00	50.00	0.789	0.789	1.00
4	1:21	1.00	0.320	1.00	50.00	50.00	0.759	0.759	1.00
5	1:27	1.00	0.345	1.00	50.00	50.00	0.519	0.519	1.00
6	2:23	1.00	0.566	1.00	50.00	50.00	1.586	1.586	1.00
7	2:03	1.00	0.487	1.00	50.00	50.00	0.625	0.625	1.00
8	2:06	1.00	0.497	1.00	50.00	50.00	4.926	4.926	1.00
9	1:57	1.00	0.462	1.00	50.00	50.00	1.326	1.326	1.00
10	3:04	1.00	0.728	1.00	50.00	50.00	3.153	3.153	1.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
11	4:25	1.00	1.047	1.00	50.00	50.00	3.131	3.131	1.00
12	4:35	1.00	1.089	1.00	50.00	50.00	2.037	2.037	1.00
13	1:34	1.00	0.370	1.00	50.00	50.00	0.651	0.651	1.00
14	2:37	1.00	0.620	1.00	50.00	50.00	1.634	1.634	1.00
15	3:51	1.00	0.915	1.00	58.70	58.70	1.767	1.767	1.00
16	6:22	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
17	5:27	1.00	0.856	1.00	50.00	50.00	0.335	0.335	1.00
18	3:58	1.00	0.623	1.00	50.00	50.00	0.045	0.045	1.00
19	4:51	1.00	0.762	1.00	50.00	50.00	0.254	0.254	1.00
20	3:12	1.00	0.502	1.00	50.00	50.00	0.227	0.227	1.00
21	8:40	1.00	1.360	1.00	50.00	50.00	0.522	0.522	1.00
22	7:35	1.00	1.190	1.00	50.00	50.00	0.457	0.457	1.00
23	10:16	1.00	1.611	1.00	60.00	60.00	0.576	0.576	1.00
24	6:54	1.00	1.084	1.00	50.00	50.00	0.371	0.371	1.00
25	5:18	1.00	0.833	1.00	50.00	50.00	1.065	1.065	1.00
26	10:05	1.00	1.582	1.00	50.00	50.00	0.025	0.025	1.00
27	5:18	1.00	0.831	1.00	100.00	100.00	0.144	0.144	1.00
28	20:47	1.00	3.262	1.00	50.00	50.00	0.330	0.330	1.00
29	17:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
30	15:06	1.00	0.866	1.00	50.00	50.00	0.432	0.432	1.00
31	13:31	1.00	0.775	1.00	50.00	50.00	0.370	0.370	1.00
32	12:49	1.00	0.734	1.00	40.00	40.00	0.467	0.467	1.00
33	15:10	1.00	0.869	1.00	50.00	50.00	0.409	0.409	1.00
34	11:18	1.00	0.648	1.00	50.00	50.00	0.402	0.402	1.00
35	13:30	1.00	0.773	1.00	50.00	50.00	0.339	0.339	1.00
36	22:57	1.00	1.315	1.00	50.00	50.00	0.630	0.630	1.00
37	11:20	1.00	0.649	1.00	50.00	50.00	1.238	1.238	1.00
38	17:34	1.00	1.006	1.00	50.00	50.00	0.946	0.946	1.00
39	18:14	1.00	1.045	1.00	50.00	50.00	0.482	0.482	1.00
40	20:18	1.00	1.163	1.00	50.00	50.00	0.987	0.987	1.00
41	18:45	1.00	1.074	1.00	60.60	60.60	0.576	0.576	1.00
42	20:10	1.00	1.156	1.00	50.00	50.00	0.592	0.592	1.00
43	21:58	1.00	1.259	1.00	100.00	100.00	0.502	0.502	1.00
44	11:05	1.00	0.635	1.00	100.00	100.00	0.665	0.665	1.00

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID (Standard): A0402BK02 Date Analyzed: 04/02/91

Instrument ID: 5100 Time Analyzed: 1152

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

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	7980	3.80	36000	5.70	37800	16.55
	UPPER LIMIT	15960		72000		75600	
	LOWER LIMIT	3990		18000		18900	
	EPA SAMPLE NO.						
01	G201	7350	3.83	34100	5.70	36900	16.60
02	G202	7630	3.82	34600	5.70	38900	16.62
03	G203	7750	3.83	34500	5.68	38300	16.60
04	VBLKTB	7220	3.80	34100	5.70	38300	16.57
05	VBLKW	7680	3.77	34800	5.63	37600	16.55
06	VBLKW	7680	3.77	34800	5.63	37600	16.55

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

000704

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID (Standard): A0403BK02 Date Analyzed: 04/03/91

Instrument ID: 5100 Time Analyzed: 1004

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

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	7380	3.77	34400	5.63	37000	16.57
	UPPER LIMIT	14760		68800		74000	
	LOWER LIMIT	3690		17200		18500	
	EPA SAMPLE NO.						
01	G204	7610	3.80	34900	5.67	37600	16.59
02	G205	7300	3.80	34700	5.65	38300	16.57
03	VBLKW	7650	3.80	34400	5.63	37200	16.59
04	G201MS	7890	3.82	35300	5.68	39300	16.64
05	G201MSD	7460	3.83	33500	5.72	36800	16.64
06	VBLKW	7650	3.80	34400	5.63	37200	16.59

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

000705

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID (Standard): B0329LC02 Date Analyzed: 03/29/91

Instrument ID: 5100 Time Analyzed: 1019

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	10700	4.25	53200	6.45	56000	17.50
	UPPER LIMIT	21400		106400		112000	
	LOWER LIMIT	5350		26600		28000	
	EPA SAMPLE NO.						
01	VBLKSL	7720	4.27	38000	6.47	43300	17.45
02	X102	8130	4.17	39800	6.30	42600	17.44
03	X108	9420	4.20	45900	6.37	52700	17.44
04	X114	10600	4.10	51600	6.17	56400	17.34
05	VBLKSL	7720	4.27	38000	6.47	43300	17.45

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

000706

FORM VIII VOA 1/87 Rev.

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID (Standard): B0401LC02 Date Analyzed: 04/01/91

Instrument ID: 5100 Time Analyzed: 1018

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	11100	4.33	53400	6.60	57800	17.50
	UPPER LIMIT	22200		106800		115600	
	LOWER LIMIT	5550		26700		28900	
	EPA SAMPLE NO.						
01	VBLKSL	10600	4.20	50200	6.35	55200	17.44
02	X101	8470	4.23	39200	6.45	41300	17.49
03	X106	10200	4.17	47100	6.27	51000	17.37
04	X109	10200	4.18	48300	6.33	52200	17.44
05	X109MS	9310	4.13	46900	6.22	53400	17.39
06	X109MSD	10300	4.12	47700	6.20	53400	17.37
07	VBLKSL	10600	4.20	50200	6.35	55200	17.44

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

000707

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID (Standard): B0402LC02 Date Analyzed: 04/02/91

Instrument ID: 5100 Time Analyzed: 1003

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) WIDE

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	10800	4.30	51900	6.57	58300	17.54
	UPPER LIMIT	21600		103800		116600	
	LOWER LIMIT	5400		25950		29150	
	EPA SAMPLE NO.						
01	VBLKSL	10900	4.30	52900	6.57	59200	17.49
02	X103	10500	4.17	50200	6.27	56000	17.39
03	X104	8430	4.25	42200	6.43	48800	17.49
04	X107	9570	4.17	47400	6.30	51300	17.42
05	X110	11200	4.10	49400	6.20	55100	17.34
06	X111	10200	4.12	48500	6.23	54900	17.42
07	X112	10200	4.15	49800	6.23	56900	17.40
08	X113	10100	4.20	49100	6.37	55400	17.45
09	VBLKSL	10900	4.30	52900	6.57	59200	17.49

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

000708

FORM VIII VOA 1/87 Rev.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Lab File ID (Standard): B0403LC02 Date Analyzed: 04/03/91

Instrument ID: 5100 Time Analyzed: 950

Matrix:(soil/water) SOIL Level:(low/med) MED Column:(pack/cap) WIDE

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	10800	4.22	55300	6.37	59200	17.45
	UPPER LIMIT	21600		110600		118400	
	LOWER LIMIT	5400		27650		29600	
	EPA SAMPLE NO.						
01	VBLKSM	10900	4.30	53600	6.62	58900	17.50
02	X103DL	10400	4.23	51400	6.50	55800	17.47
03	X109MS	10400	4.12	48200	6.25	55100	17.40
04	X109MSD	10200	4.23	49700	6.45	56300	17.47
05	VBLKSM	10900	4.30	53600	6.62	58900	17.50

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

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

Column used to flag internal standard area values with an asterisk

000709

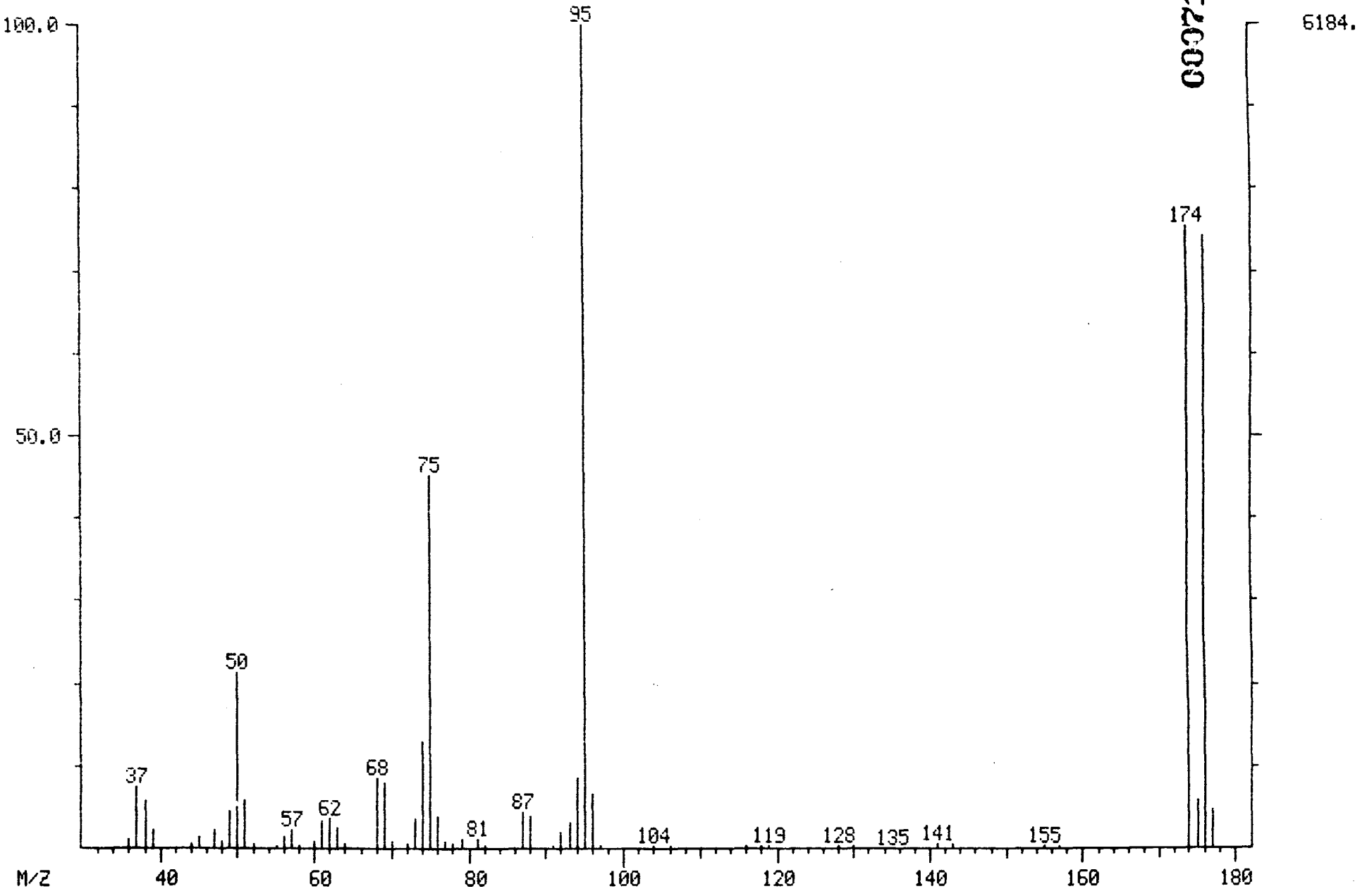
FORM VIII VOA 1/87 Rev.

MASS SPECTRUM
04/02/91 11:15:00 + 21:02
SAMPLE: BFB
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK01 #1578
CALI: A0402BK01 #3

BASE M/Z: 95
RIC: 27840.

000710



Mass List
04/02/91 11:15:00 + 21:02
Sample: BFB
Conds.: LC, DB-624
Enhanced (S 15B 2N OT)

Data: A0402BK01 #1578
Cali: A0402BK01 # 3

Base m/z: 95
RIC: 27840.

36 0.00 0.00 0. Minima Min inten: 0.
177 # 0 Maxima

Mass	% RA	% RIC	Inten.
36.00?	1.15	0.26	71.
37.00?	7.44	1.65	460.
38.00?	5.89	1.31	364.
39.00?	2.25	0.50	139.
42.00?	0.06	0.01	4.
44.00?	0.52	0.11	32.
45.00?	1.26	0.28	78.
47.00?	2.33	0.52	144.
48.00?	0.91	0.20	56.
49.00?	4.32	0.96	267.
50.00?	21.22	4.71	1312.
51.00?	5.77	1.28	357.
52.00?	0.45	0.10	28.
55.00?	0.24	0.05	15.
56.00?	1.41	0.31	87.
57.00?	2.22	0.49	137.
58.00?	0.18	0.04	11.
60.00?	0.73	0.16	45.
61.00?	3.35	0.74	207.
62.00?	3.67	0.82	227.
63.00?	2.52	0.56	156.
64.00?	0.42	0.09	26.
68.00?	8.52	1.89	527.
69.00	7.92	1.76	490.
70.00	0.73	0.16	45.
72.00	0.52	0.11	32.
73.00	3.57	0.79	221.
74.00	12.92	2.87	799.
75.00	45.21	10.04	2796.
76.00	3.78	0.84	234.
77.00	0.71	0.16	44.
78.00	0.61	0.14	38.
79.00	1.13	0.25	70.
81.00	1.15	0.26	71.
82.00	0.40	0.09	25.
87.00	4.33	0.96	268.
88.00	3.88	0.86	240.
91.00	0.26	0.06	16.
92.00	1.96	0.43	121.
93.00	2.93	0.65	181.
94.00	8.51	1.89	526.
95.00	100.00	22.21	6184.
96.00	6.71	1.49	415.
97.00	0.34	0.08	21.
104.00	0.34	0.08	21.
106.00	0.29	0.06	18.
116.00	0.26	0.06	16.
118.00	0.27	0.06	17.
119.00	0.39	0.09	24.
128.00	0.36	0.08	22.

Mass	% RA	% RIC	Inten.
130.00	0.36	0.08	22.
135.00	0.08	0.02	5.
141.00	0.52	0.11	32.
143.00	0.52	0.11	32.
155.00	0.26	0.06	16.
157.00	0.18	0.04	11.
173.00	0.13	0.03	8.
174.00	75.42	16.75	4664.
175.00	5.76	1.28	356.
176.00	74.26	16.49	4592.
177.00	4.75	1.06	294.

GC/MS Tuning and Mass Calibration

BROMOFLUOROBENZENE

Case Number:		Laboratory:		Contract:	
Inst ID:	5100	Sens Date:	04/02/91	Sens Time:	11:15:00
Lab ID:	A0402BK01	Cali Date:		Analyst:	BK

Data release authorized by: _____

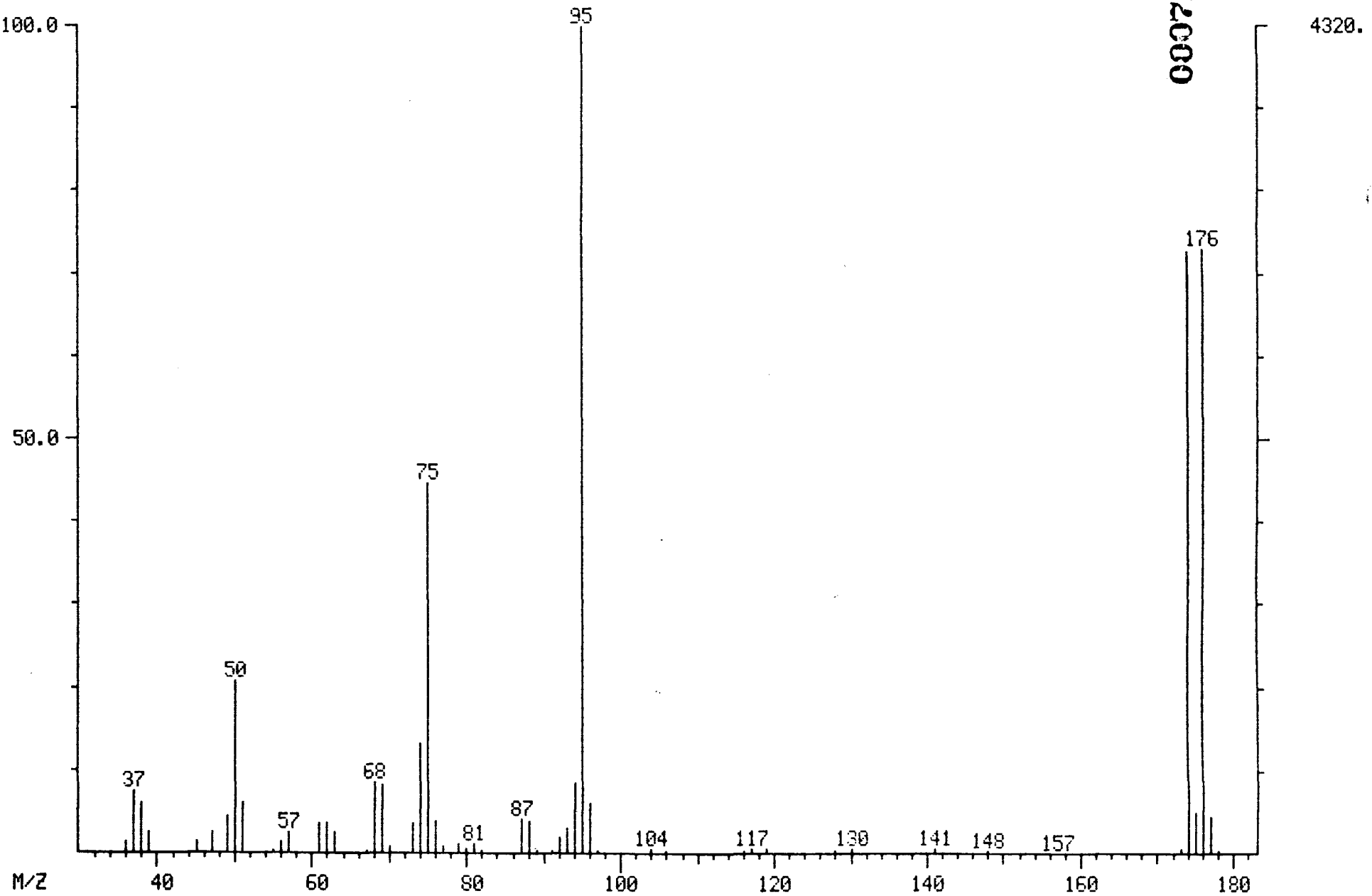
m/z	Ion Abundance Criteria	Spec #1578	
50	15 to 40% of mass 95	21.22	
75	30 to 60% of mass 95	45.21	
95	base peak, 100% relative abundance	100.00	
96	5 to 9% of mass 95	6.71	
173	less than 1% of mass 95	0.13	
174	greater than 50% of mass 95	75.42	
175	5 to 9% of mass 174	5.76	(7.63) 1
176	between 95% and 101% of mass 174	74.26	(98.45) 1
177	5 to 9% of mass 176	4.75	(6.40) 2

1 - value in parenthesis is % of mass 174
2 - value in parenthesis is % of mass 176

MASS SPECTRUM
04/03/91 8:52:00 + 21:11
SAMPLE: BFB
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK01 #1589
CALI: A0403BK01 #3

BASE M/Z: 95
RIC: 19104.



000713

9222260013 39

Mass List
04/03/91 8:52:00 + 21:11
Sample: BFB
Conds.: LC, DB-624
Enhanced (S 15B 2N OT)

Data: A0403BK01 #1589
Cali: A0403BK01 # 3

Base m/z: 95
RIC: 19104.

36	0.00	0.00	0.	Minima	Min inten:		0.
178			# 0	Maxima			
Mass	% RA	% RIC	Inten.	Mass	% RA	% RIC	Inten.
36.00?	1.34	0.30	58.	175.00	5.00	1.13	216.
37.00?	7.55	1.71	326.	176.00	72.87	16.48	3148.
38.00?	6.13	1.39	265.	177.00	4.42	1.00	191.
39.00?	2.41	0.54	104.	178.00	0.16	0.04	7.
45.00?	1.34	0.30	58.				
47.00?	2.50	0.57	108.				
49.00?	4.42	1.00	191.				
50.00?	20.86	4.72	901.				
51.00?	5.95	1.35	257.				
55.00?	0.35	0.08	15.				
56.00?	1.34	0.30	58.				
57.00?	2.41	0.54	104.				
61.00?	3.63	0.82	157.				
62.00?	3.54	0.80	153.				
63.00?	2.57	0.58	111.				
67.00?	0.14	0.03	6.				
68.00?	8.68	1.96	375.				
69.00	8.38	1.89	362.				
70.00	0.69	0.16	30.				
73.00	3.59	0.81	155.				
74.00	13.12	2.97	567.				
75.00	44.77	10.12	1934.				
76.00	3.89	0.88	168.				
77.00	0.79	0.18	34.				
79.00	1.13	0.26	49.				
80.00	0.58	0.13	25.				
81.00	1.18	0.27	51.				
82.00	0.39	0.09	17.				
87.00	4.19	0.95	181.				
88.00	3.98	0.90	172.				
89.00	0.23	0.05	10.				
91.00	0.19	0.04	8.				
92.00	1.97	0.44	85.				
93.00	3.06	0.69	132.				
94.00	8.47	1.92	366.				
95.00	100.00	22.61	4320.				
96.00	6.06	1.37	262.				
97.00	0.30	0.07	13.				
104.00	0.42	0.09	18.				
106.00	0.28	0.06	12.				
116.00	0.25	0.06	11.				
117.00	0.58	0.13	25.				
119.00	0.42	0.09	18.				
128.00	0.39	0.09	17.				
130.00	0.42	0.09	18.				
141.00	0.46	0.10	20.				
143.00	0.23	0.05	10.				
157.00	0.09	0.02	4.				
173.00	0.62	0.14	27.				
174.00	72.59	16.42	3136.				

GC/MS Tuning and Mass Calibration

BROMOFLUOROBENZENE

Case Number:		Laboratory:		Contract:	
Inst ID:	5100	Sens Date:	04/03/91	Sens Time:	8:52:00
Lab ID:	A0403BK01	Cali Date:		Analyst:	BK

Data release authorized by: _____

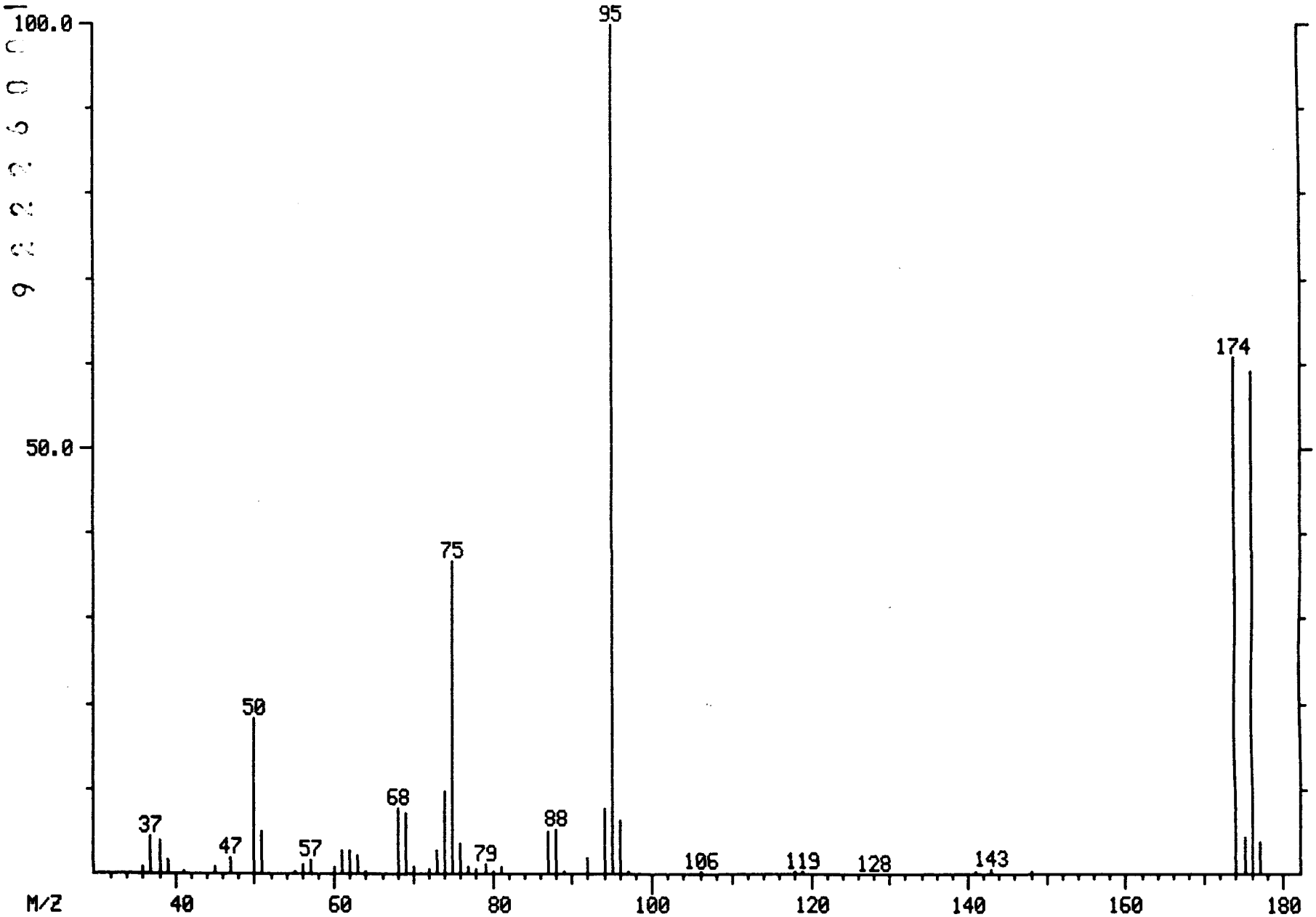
m/z	Ion Abundance Criteria	Spec #1589	
50	15 to 40% of mass 95	20.86	
75	30 to 60% of mass 95	44.77	
95	base peak, 100% relative abundance	100.00	
96	5 to 9% of mass 95	6.06	
173	less than 1% of mass 95	0.62	
174	greater than 50% of mass 95	72.59	
175	5 to 9% of mass 174	5.00	(6.89) 1
176	between 95% and 101% of mass 174	72.87	(*100.) 1
177	5 to 9% of mass 176	4.42	(6.07) 2

1 - value in parenthesis is % of mass 174
2 - value in parenthesis is % of mass 176

MASS SPECTRUM
03/29/91 9:38:00 + 21:56
SAMPLE: BFB
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC01 #1645
CALI: B0329LC01 #3

BASE M/Z: 95
RIC: 16576.



0007165

Mass List Data: B0329LC01 #1645 Base m/z: 95
03/29/91 9:38:00 + 21:56 Cali: B0329LC01 # 3 RIC: 16576.
Sample: BFB
Conds.: LC, DB-624
Enhanced (S 15B 2N OT)

36 0.00 0.00 0. Minima Min inten: 0.
177 # 0 Maxima

Mass	% RA	% RIC	Inten.
36.00?	0.89	0.24	39.
37.00?	4.48	1.18	196.
38.00?	3.82	1.01	167.
39.00?	1.58	0.42	69.
41.00?	0.27	0.07	12.
45.00?	0.96	0.25	42.
47.00?	2.03	0.54	89.
50.00?	18.17	4.80	795.
51.00?	5.03	1.33	220.
55.00?	0.27	0.07	12.
56.00?	1.17	0.31	51.
57.00?	1.58	0.42	69.
60.00?	0.78	0.21	34.
61.00?	2.83	0.75	124.
62.00?	2.74	0.72	120.
63.00?	2.31	0.61	101.
64.00?	0.18	0.05	8.
68.00?	7.79	2.06	341.
69.00	7.08	1.87	310.
70.00	0.82	0.22	36.
72.00	0.62	0.16	27.
73.00	2.79	0.74	122.
74.00	9.67	2.55	423.
75.00	36.61	9.66	1602.
76.00	3.56	0.94	156.
77.00	0.75	0.20	33.
78.00	0.64	0.17	28.
79.00	1.17	0.31	51.
80.00	0.41	0.11	18.
81.00	0.75	0.20	33.
82.00	0.14	0.04	6.
87.00	5.03	1.33	220.
88.00	5.30	1.40	232.
89.00	0.25	0.07	11.
92.00	1.81	0.48	79.
94.00	7.84	2.07	343.
95.00	100.00	26.40	4376.
96.00	6.31	1.67	276.
97.00	0.41	0.11	18.
105.00	0.11	0.03	5.
106.00	0.25	0.07	11.
118.00	0.21	0.05	9.
119.00	0.23	0.06	10.
128.00	0.11	0.03	5.
141.00	0.41	0.11	18.
143.00	0.48	0.13	21.
148.00	0.16	0.04	7.
174.00	60.79	16.05	2660.
175.00	4.48	1.18	196.
176.00	59.23	15.64	2592.

Mass	% RA	% RIC	Inten.
177.00	4.00	1.06	175.

000717

GC/MS Tuning and Mass Calibration

BROMOFLUOROBENZENE

Case Number:		Laboratory:		Contract:	
Inst ID:	5100	Sens Date:	03/29/91	Sens Time:	9:38:00
Lab ID:	B0329LC01	Cali Date:		Analyst:	LC

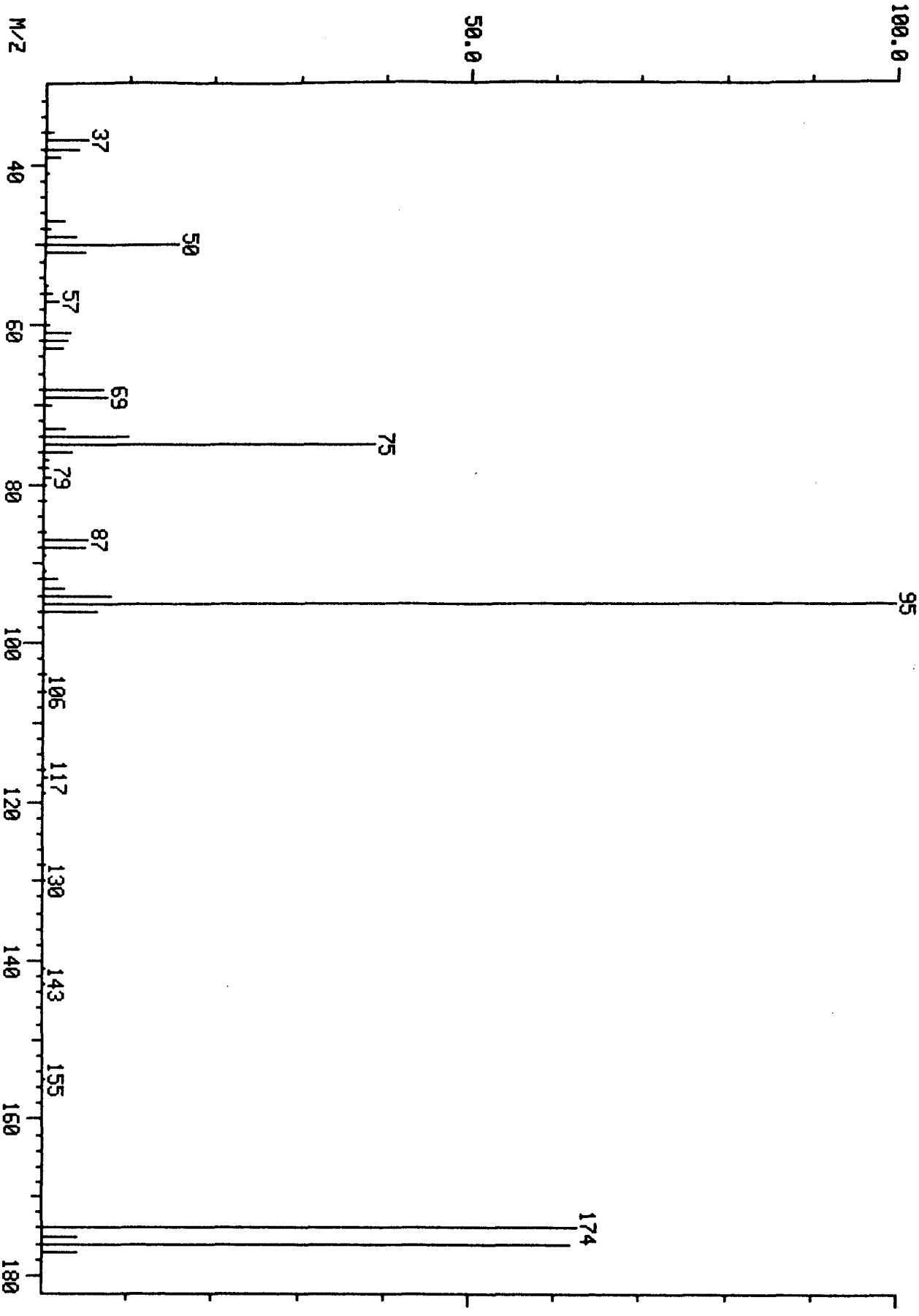
Data release authorized by: _____

m/z	Ion Abundance Criteria	Spec #1645	
50	15 to 40% of mass 95	18.17	
75	30 to 60% of mass 95	36.61	
95	base peak, 100% relative abundance	100.00	
96	5 to 9% of mass 95	6.31	
173	less than 1% of mass 95	0.00	
174	greater than 50% of mass 95	60.79	
175	5 to 9% of mass 174	4.48	(7.37) 1
176	between 95% and 101% of mass 174	59.23	(97.44) 1
177	5 to 9% of mass 176	4.00	(6.75) 2

1 - value in parenthesis is % of mass 174
2 - value in parenthesis is % of mass 176

9 2 2 2 6 0 0 1 3 9 5

ACQUISITION STARTED: ANALYSIS NO. 1 RACK NO. 15 VIAL NO. 10
FREE SECTORS: 7124 FILENAME: B0401LC01



MASS SPECTRUM
04/01/91 9:32:00 + 21:57
SAMPLE: BFB
CONDS.: LC, DB-624
GC TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC01 #1646
CALI: B0401LC01 #3

BASE M/Z: 95
RIC: 24704.

000719

6368

Mass List Data: B0401LC01 #1646 Base m/z: 95
04/01/91 9:32:00 + 21:57 Cali: B0401LC01 # 3 RIC: 24704.
Sample: BFB
Conds.: LC, DB-624
Enhanced (S 15B 2N OT)

36 0.00 0.00 0. Minima Min inten: 0.
177 # 0 Maxima

Mass	% RA	% RIC	Inten.	Mass	% RA	% RIC	Inten.
36.00?	0.80	0.21	51.	146.00	0.05	0.01	3.
37.00?	4.95	1.28	315.	155.00	0.17	0.04	11.
38.00?	4.00	1.03	255.	174.00	62.81	16.19	4000.
39.00?	1.54	0.40	98.	175.00	4.21	1.08	268.
41.00?	0.22	0.06	14.	176.00	61.87	15.95	3940.
47.00?	2.12	0.55	135.	177.00	4.11	1.06	262.
48.00?	0.60	0.15	38.				
49.00?	3.50	0.90	223.				
50.00?	15.78	4.07	1005.				
51.00?	4.62	1.19	294.				
55.00?	0.28	0.07	18.				
56.00?	0.94	0.24	60.				
57.00?	1.59	0.41	101.				
60.00?	0.57	0.15	36.				
61.00?	2.94	0.76	187.				
62.00?	2.64	0.68	168.				
63.00?	2.20	0.57	140.				
68.00?	7.02	1.81	447.				
69.00	7.46	1.92	475.				
70.00	0.77	0.20	49.				
73.00	2.61	0.67	166.				
74.00	9.97	2.57	635.				
75.00	38.82	10.01	2472.				
76.00	3.36	0.87	214.				
77.00	0.68	0.17	43.				
78.00	0.63	0.16	40.				
79.00	0.91	0.23	58.				
80.00	0.35	0.09	22.				
82.00	0.28	0.07	18.				
86.00	0.28	0.07	18.				
87.00	5.12	1.32	326.				
88.00	5.06	1.30	322.				
89.00	0.17	0.04	11.				
91.00	0.22	0.06	14.				
92.00	1.79	0.46	114.				
93.00	2.51	0.65	160.				
94.00	7.90	2.04	503.				
95.00	100.00	25.78	6368.				
96.00	6.42	1.66	409.				
104.00	0.25	0.06	16.				
105.00	0.06	0.02	4.				
106.00	0.31	0.08	20.				
107.00	0.13	0.03	8.				
116.00	0.24	0.06	15.				
117.00	0.42	0.11	27.				
119.00	0.35	0.09	22.				
128.00	0.27	0.07	17.				
130.00	0.33	0.09	21.				
141.00	0.33	0.09	21.				
143.00	0.41	0.11	26.				

GC/MS Tuning and Mass Calibration

BROMOFLUOROBENZENE

Case Number:		Laboratory:		Contract:	
Inst ID:	5100	Sens Date:	04/01/91	Sens Time:	9:32:00
Lab ID:	B0401LC01	Cali Date:		Analyst:	LC

Data release authorized by: _____

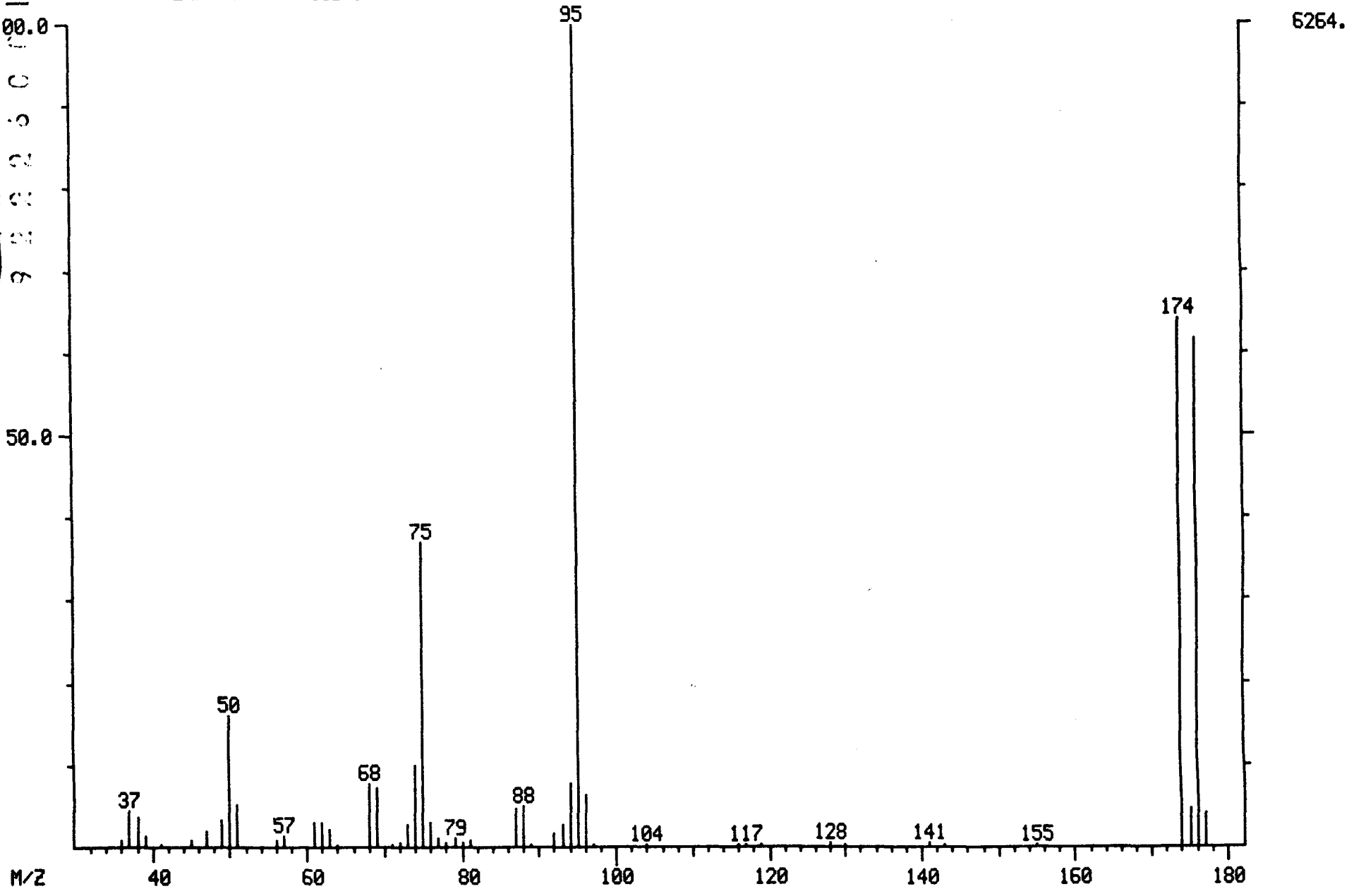
m/z	Ion Abundance Criteria	Spec #1646	
50	15 to 40% of mass 95	15.78	
75	30 to 60% of mass 95	38.82	
95	base peak, 100% relative abundance	100.00	
96	5 to 9% of mass 95	6.42	
173	less than 1% of mass 95	0.00	
174	greater than 50% of mass 95	62.81	
175	5 to 9% of mass 174	4.21	(6.70) 1
176	between 95% and 101% of mass 174	61.87	(98.50) 1
177	5 to 9% of mass 176	4.11	(6.65) 2

1 - value in parenthesis is % of mass 174
2 - value in parenthesis is % of mass 176

MASS SPECTRUM
04/02/91 9:24:00 + 21:59
SAMPLE: BFB
CONDS.: LC, DB-624
GC TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC01 #1649
CALI: B0402LC01 #3

BASE M/Z: 95
RIC: 24384.



000723

Mass List
04/02/91 9:24:00 + 21:59
Sample: BFB
Conds.: LC, DB-624
Enhanced (S 15B 2N OT)

Data: B0402LC01 #1649
Cali: B0402LC01 # 3

Base m/z: 95
RIC: 24384.

36 0.00 0.00 0. Minima Min inten: 0.
177 # 0 Maxima

Mass	% RA	% RIC	Inten.
36.00?	0.81	0.21	51.
37.00?	4.49	1.15	281.
38.00?	3.59	0.92	225.
39.00?	1.45	0.37	91.
41.00?	0.16	0.04	10.
45.00?	0.93	0.24	58.
47.00?	2.04	0.52	128.
49.00?	3.38	0.87	212.
50.00?	16.06	4.13	1006.
51.00?	5.27	1.35	330.
56.00?	0.96	0.25	60.
57.00?	1.42	0.36	89.
58.00?	0.06	0.02	4.
61.00?	3.11	0.80	195.
62.00?	3.08	0.79	193.
63.00?	2.09	0.54	131.
64.00?	0.29	0.07	18.
68.00?	7.82	2.01	490.
69.00	7.30	1.87	457.
71.00	0.16	0.04	10.
72.00	0.54	0.14	34.
73.00	2.83	0.73	177.
74.00	10.03	2.58	628.
75.00	36.91	9.48	2312.
76.00	3.16	0.81	198.
77.00	0.99	0.25	62.
78.00	0.67	0.17	42.
79.00	1.10	0.28	69.
80.00	0.42	0.11	26.
81.00	0.73	0.19	46.
83.00	0.10	0.02	6.
87.00	4.74	1.22	297.
88.00	5.04	1.30	316.
89.00	0.26	0.07	16.
92.00	1.53	0.39	96.
93.00	2.78	0.71	174.
94.00	7.77	2.00	487.
95.00	100.00	25.69	6264.
96.00	6.24	1.60	391.
97.00	0.22	0.06	14.
104.00	0.38	0.10	24.
107.00	0.06	0.02	4.
116.00	0.24	0.06	15.
117.00	0.38	0.10	24.
119.00	0.38	0.10	24.
128.00	0.42	0.11	26.
130.00	0.27	0.07	17.
141.00	0.42	0.11	26.
143.00	0.40	0.10	25.
146.00	0.06	0.02	4.

Mass	% RA	% RIC	Inten.
148.00	0.05	0.01	3.
155.00	0.27	0.07	17.
157.00	0.06	0.02	4.
174.00	64.11	16.47	4016.
175.00	4.74	1.22	297.
176.00	61.62	15.83	3860.
177.00	4.01	1.03	251.

GC/MS Tuning and Mass Calibration

BROMOFLUOROBENZENE

Case Number:		Laboratory:		Contract:	
Inst ID:	5100	Sens Date:	04/02/91	Sens Time:	9:24:00
Lab ID:	B0402LC01	Cali Date:		Analyst:	LC

Data release authorized by: _____

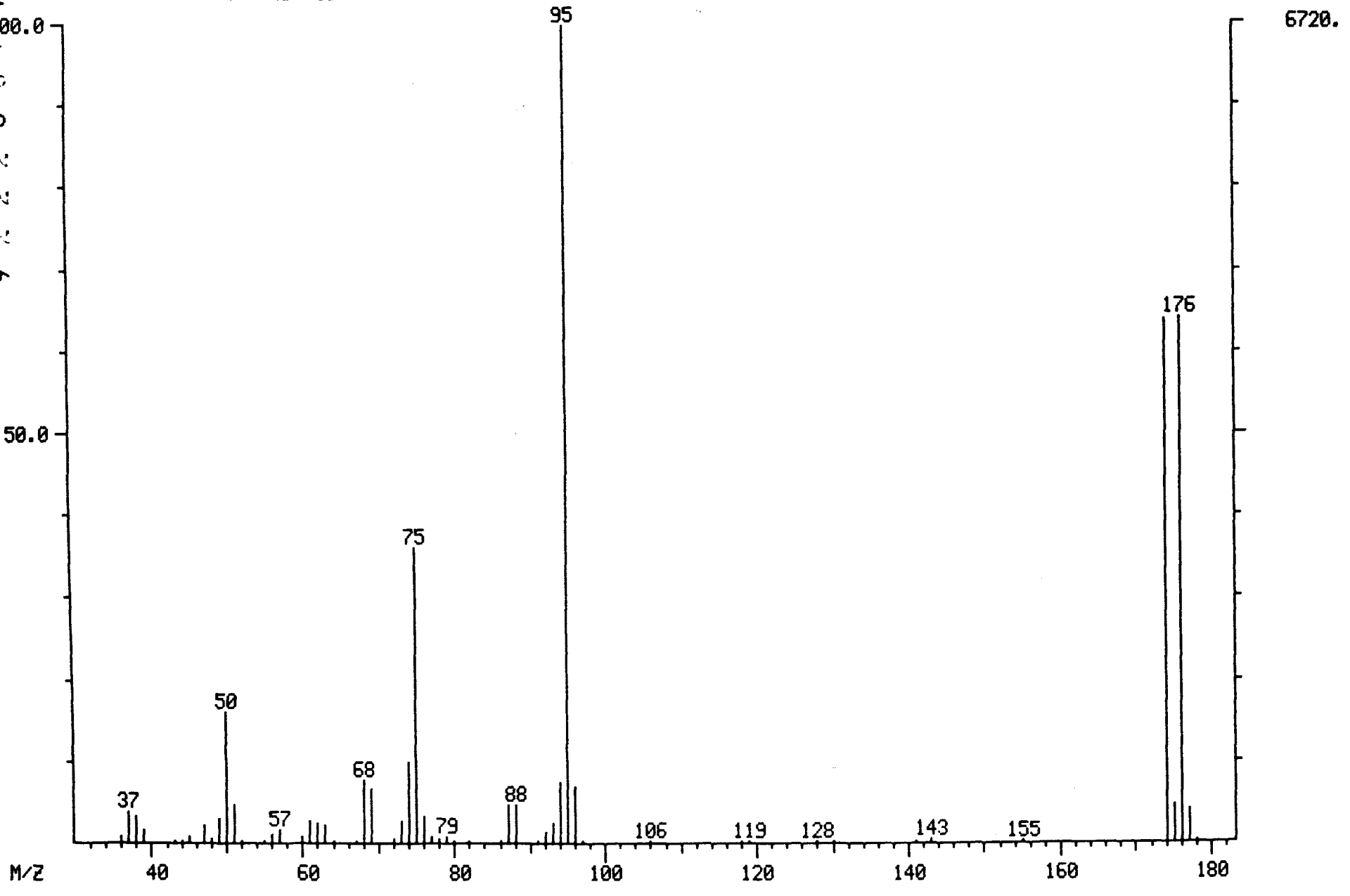
m/z	Ion Abundance Criteria	Spec #1649	
50	15 to 40% of mass 95	16.06	
75	30 to 60% of mass 95	36.91	
95	base peak, 100% relative abundance	100.00	
96	5 to 9% of mass 95	6.24	
173	less than 1% of mass 95	0.00	
174	greater than 50% of mass 95	64.11	
175	5 to 9% of mass 174	4.74	(7.40) 1
176	between 95% and 101% of mass 174	61.62	(96.11) 1
177	5 to 9% of mass 176	4.01	(6.51) 2

1 - value in parenthesis is % of mass 174
2 - value in parenthesis is % of mass 176

MASS SPECTRUM
04/03/91 9:12:00 + 22:00
SAMPLE: BFB
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC01 #1650
CALI: B0403LC01 #3

BASE M/Z: 95
RIC: 26144.



Mass List
04/03/91 9:12:00 + 22:00
Sample: BFB
Conds.: LC, DB-624
Enhanced (S 15B 2N OT)

Data: B0403LC01 #1650
Cali: B0403LC01 # 3

Base m/z: 95
RIC: 26144.

36 0.00 0.00 0. Minima Min inten: 0.
178 # 0 Maxima

Mass	% RA	% RIC	Inten.	Mass	% RA	% RIC	Inten.
36.00?	0.95	0.24	64.	119.00	0.39	0.10	26.
37.00?	4.00	1.03	269.	128.00	0.28	0.07	19.
38.00?	3.41	0.88	229.	130.00	0.27	0.07	18.
39.00?	1.65	0.42	111.	131.00	0.13	0.03	9.
43.00?	0.15	0.04	10.	141.00	0.40	0.10	27.
44.00?	0.33	0.08	22.	143.00	0.46	0.12	31.
45.00?	0.94	0.24	63.	148.00	0.12	0.03	8.
47.00?	2.13	0.55	143.	155.00	0.25	0.07	17.
48.00?	0.57	0.15	38.	157.00	0.04	0.01	3.
49.00?	2.90	0.75	195.	174.00	63.93	16.43	4296.
50.00?	15.89	4.09	1068.	175.00	4.81	1.24	323.
51.00?	4.58	1.18	308.	176.00	64.17	16.49	4312.
52.00?	0.22	0.06	15.	177.00	4.26	1.09	286.
55.00?	0.24	0.06	16.	178.00	0.19	0.05	13.
56.00?	1.09	0.28	73.				
57.00?	1.59	0.41	107.				
60.00?	0.70	0.18	47.				
61.00?	2.68	0.69	180.				
62.00?	2.54	0.65	171.				
63.00?	2.20	0.57	148.				
64.00?	0.39	0.10	26.				
67.00?	0.21	0.05	14.				
68.00?	7.62	1.96	512.				
69.00	6.55	1.68	440.				
71.00	0.09	0.02	6.				
72.00	0.51	0.13	34.				
73.00	2.66	0.68	179.				
74.00	9.85	2.53	662.				
75.00	36.31	9.33	2440.				
76.00	3.30	0.85	222.				
77.00	0.89	0.23	60.				
78.00	0.54	0.14	36.				
79.00	0.97	0.25	65.				
80.00	0.37	0.10	25.				
82.00	0.33	0.08	22.				
83.00	0.06	0.02	4.				
86.00	0.16	0.04	11.				
87.00	4.64	1.19	312.				
88.00	4.78	1.23	321.				
91.00	0.25	0.07	17.				
92.00	1.37	0.35	92.				
93.00	2.62	0.67	176.				
94.00	7.40	1.90	497.				
95.00	100.00	25.70	6720.				
96.00	6.93	1.78	466.				
97.00	0.34	0.09	23.				
105.00	0.13	0.03	9.				
106.00	0.24	0.06	16.				
111.00	0.04	0.01	3.				
118.00	0.19	0.05	13.				

GC/MS Tuning and Mass Calibration

BROMOFLUOROBENZENE

Case Number:		Laboratory:		Contract:	
Inst ID:	5100	Sens Date:	04/03/91	Sens Time:	9:12:00
Lab ID:	B0403LC01	Cali Date:		Analyst:	LC

Data release authorized by: _____

m/z	Ion Abundance Criteria	Spec #1650	
50	15 to 40% of mass 95	15.89	
75	30 to 60% of mass 95	36.31	
95	base peak, 100% relative abundance	100.00	
96	5 to 9% of mass 95	6.93	
173	less than 1% of mass 95	0.00	
174	greater than 50% of mass 95	63.93	
175	5 to 9% of mass 174	4.81	(7.52) 1
176	between 95% and 101% of mass 174	64.17	(*100.) 1
177	5 to 9% of mass 176	4.26	(6.63) 2

1 - value in parenthesis is % of mass 174
2 - value in parenthesis is % of mass 176

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: 040291BLK

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0402BK03

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKW

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: 040291BLK

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0402BK03

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 04/02/91

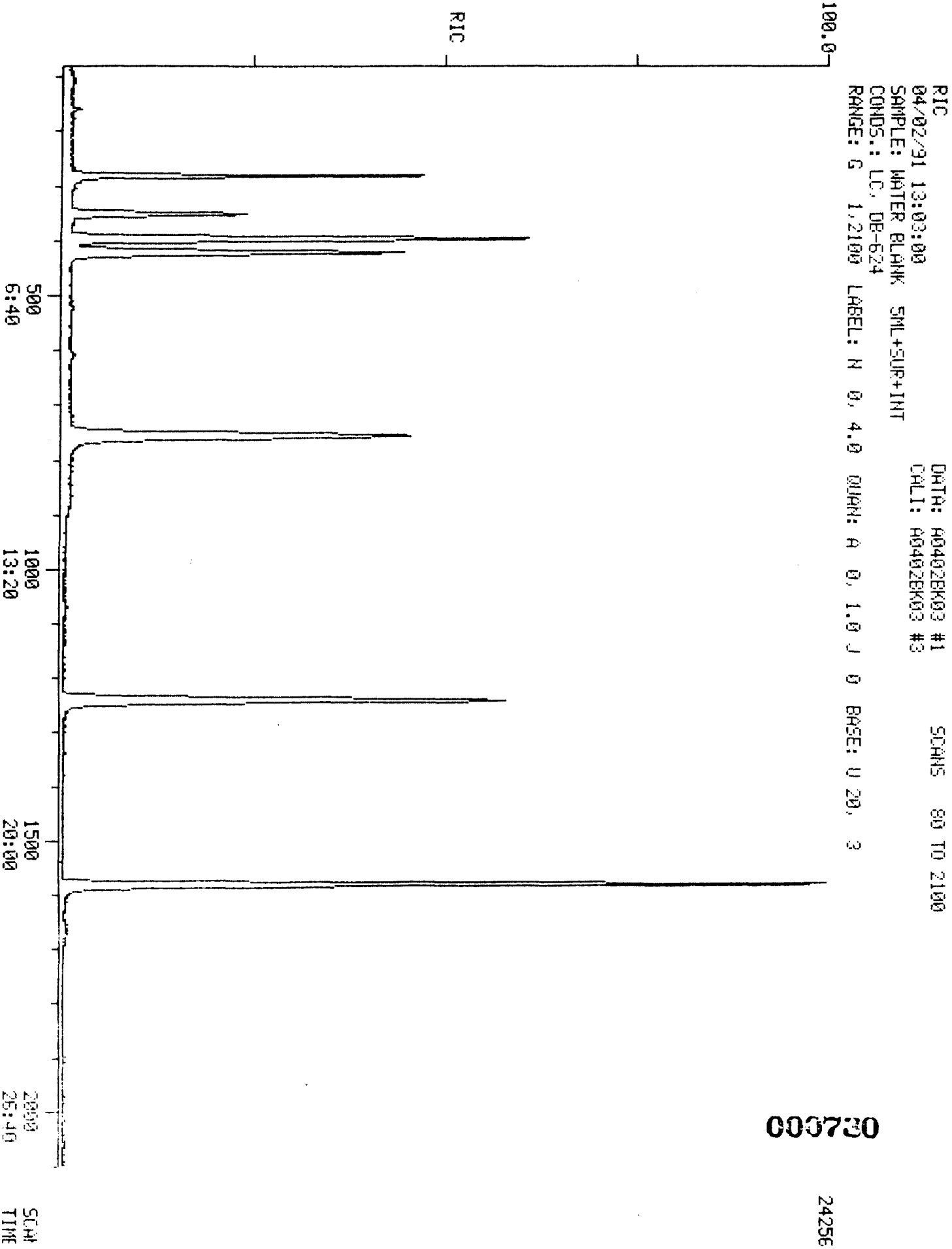
Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

TCA FINISHED, 10 FOUND
FINISHED AT: 4/02/91 16:14:21



VBLKW

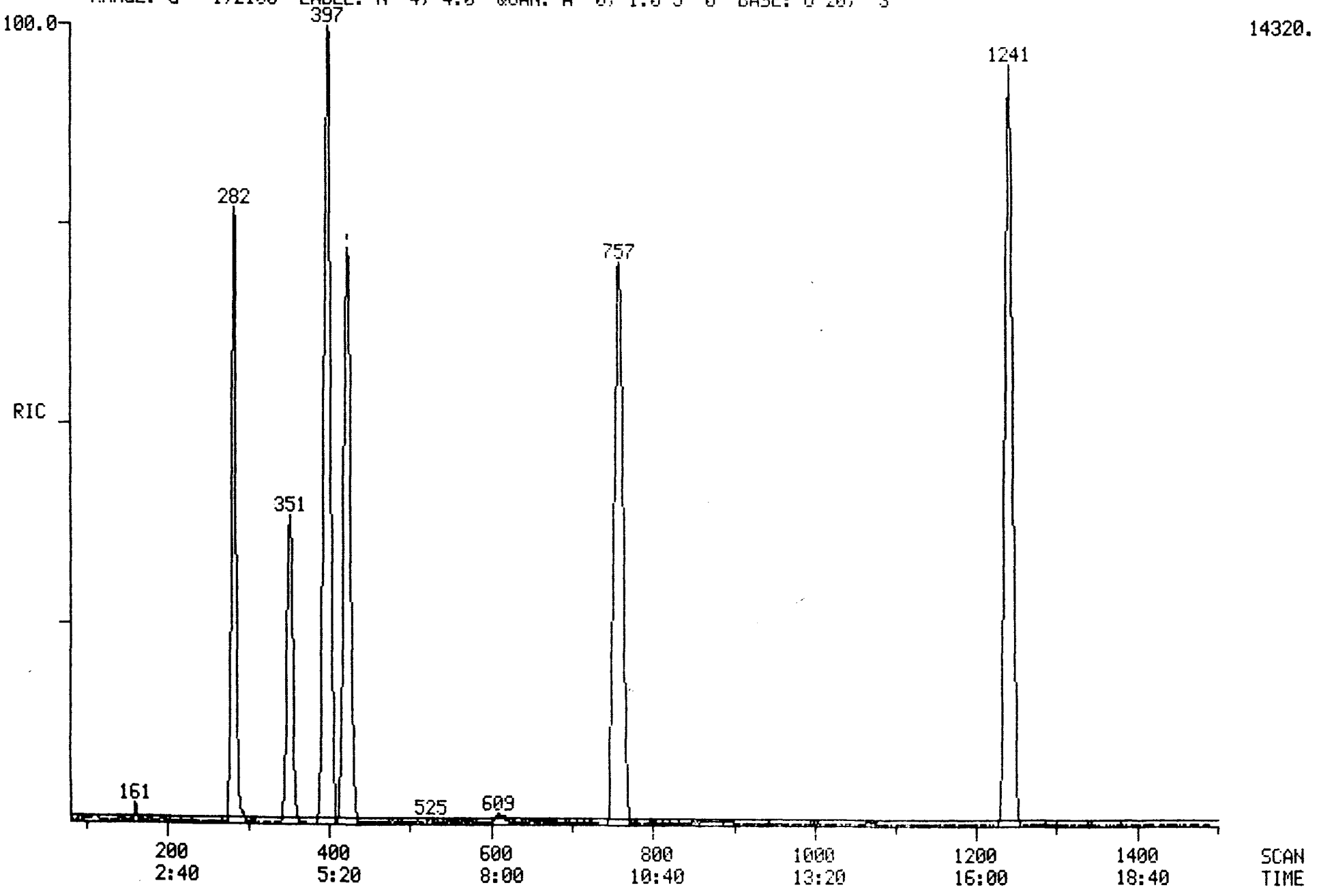
000730

24256

RIC
04/02/91 13:03:00
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

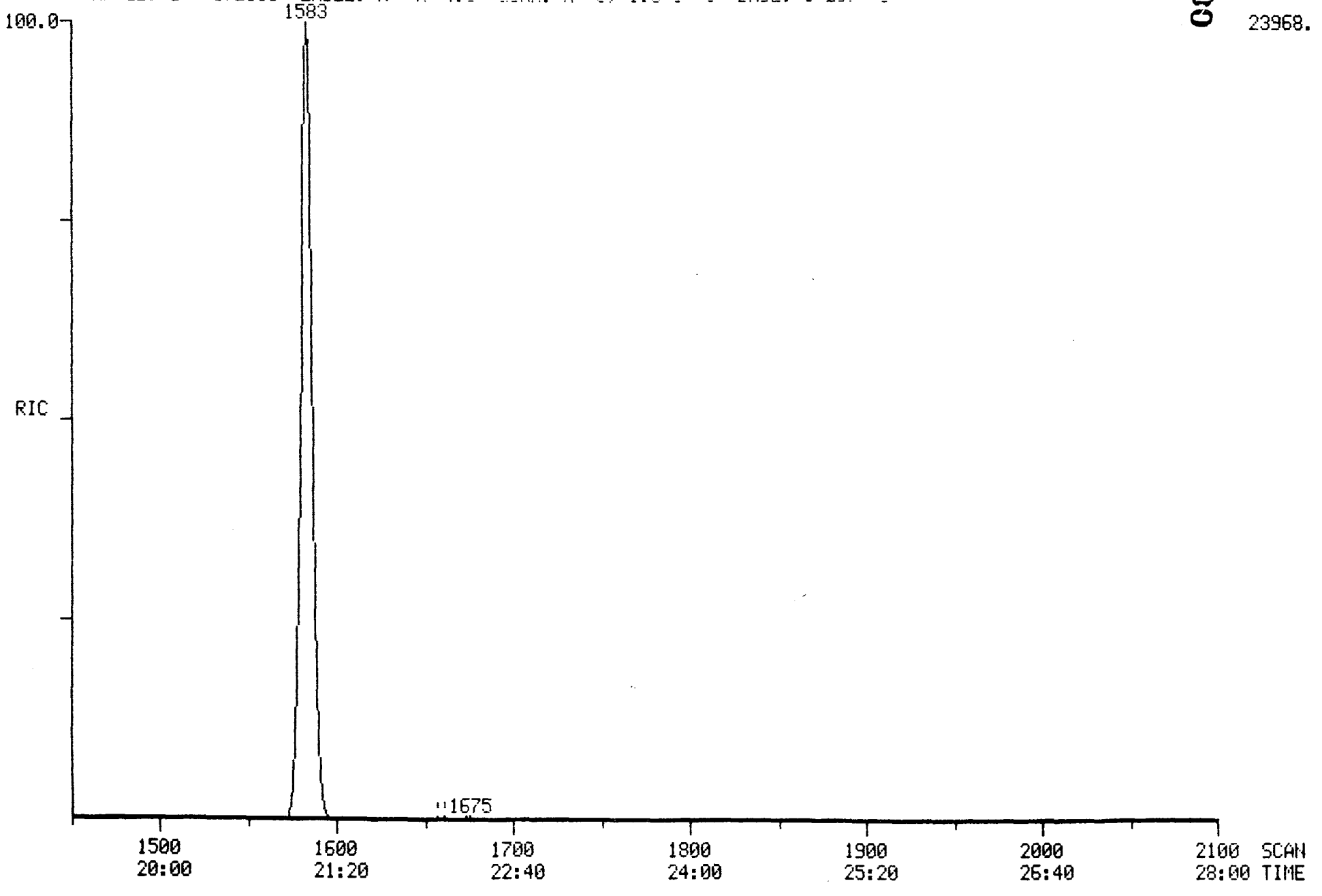
DATA: A0402BK03 #1 SCANS 80 TO 1500
CALI: A0402BK03 #3

000731



RIC
04/02/91 13:03:00
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0402BK03 #1 SCANS 1450 TO 2100
CALI: A0402BK03 #3



23968.

000733

4/2/91 13:03:39 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 13:03:00 + 0:02
Sample: WATER BLANK 5ML+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:A0402BK03
Free sectors: 5004
Instrument: 5100
Analyst: BK

Acquiring
Scan: 2 of 2100
Weight: 0.000
Acct. No:

*** GC descriptor: LC ***

GC temperature: 32 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	32- 32	-	5.0	5.0
2	32- 52	2.0	10.0	15.0
3	52-130	5.0	15.5	30.5
4	130-130	-	0.5	31.0

Valve times (minutes)

	Open	Close
Sweep/Split	31.0	0.0
Divert	31.0	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 450 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.175
Samp int (ms): 0.175

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	130.00	128.00
Resolution (low)	130.00	128.00
Ion energy	6.67	-4.00
Ion programming	4.08	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	2.00	not used

000733

Electron multiplier voltage: -1659.
Electrometer Range: 10^-7

4/2/91 13:31:40
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	5.9	1680.0	0.4	19941.	9.	12.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 16:10:51
DATA FILE: A0402BK03
REFERENCE: CLWTAB11
NAME LIST: CLWDRIVER INITIALIZATION OPTION: 10 PROCESSING OPTION: 3
REPORT: CLWRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	1	23	CLWRT1/CLWTC1
1	1	1	0	12	3	2	38	CLWRT2/CLWTC2
1	1	1	0	17	4	4	83	CLWRT3/CLWTC3

44 COMPOUNDS PROCESSED, 10 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CW	1	287	282	282	.	1	976	.	128	282	.	1
2	CW	2	-87	89	.	.	.	.	.	50	.	.	.
3	CW	3	-97	98	.	.	.	.	.	94	.	.	.
4	CW	4	-88	90	.	.	.	.	.	62	.	.	.
5	CW	5	-98	99	.	.	.	.	.	64	.	.	.
6	CW	6	-162	161	161	.	1	983	.	84	161	.	1
7	CW	7	142	142	142	.	1	956	.	43	142	.	1
8	CW	8	-145	145	.	.	.	.	.	76	.	.	.
9	CW	9	-133	133	.	.	.	.	.	96	.	.	.
10	CW	10	-211	209	.	.	.	.	.	63	.	.	.
11	CW	12	-301	296	.	.	.	.	.	83	294	.	1
12	CW	13	-313	307	.	.	.	.	.	97	.	.	.
13	CW	14	-104	105	.	.	.	.	.	101	.	.	.
14	CW	15	-180	179	.	.	.	.	.	96	.	.	.
15	CW	16	-264	260	.	.	.	.	.	96	.	.	.
16	CW	17	427	422	422	.	1	991	.	114	422	.	1
17	CW	18	-366	361	.	.	.	.	.	62	.	.	.
18	CW	19	-273	269	269	.	1	973	.	72	269	.	1
19	CW	20	-332	327	.	.	.	.	.	117	.	.	.
20	CW	21	-222	218	.	.	.	.	.	43	.	.	.
21	CW	22	-579	573	.	.	.	.	.	83	.	.	.
22	CW	23	-504	498	.	.	.	.	.	63	.	.	.
23	CW	24	-880	872	.	.	.	.	.	75	.	.	.
24	CW	25	-462	457	.	.	.	.	.	130	.	.	.
25	CW	27	-359	354	.	.	.	.	.	78	353	.	1
26	CW	28	-678	671	.	.	.	.	.	106	.	.	.
27	CW	29	356	351	351	.	2	981	.	65	352	1	1
28	CW	30	1245	1241	1241	.	1	996	.	117	1241	.	1
29	CW	26	-1066	1061	.	.	.	.	.	129	.	.	.
30	CW	31	-944	939	.	.	.	.	.	97	.	.	.
31	CW	32	-702	696	.	.	.	.	.	75	.	.	.
32	CW	33	-1070	1065	.	.	.	.	.	43	1068	.	2
33	CW	34	-775	769	.	.	.	.	.	43	.	.	.
34	CW	35	-947	942	.	.	.	.	.	164	.	.	.
35	CW	36	-1662	1658	1658	.	2	878	.	83	1656	-2	1
36	CW	37	-783	777	.	.	.	.	.	91	773	.	2
37	CW	38	-1254	1249	.	.	.	.	.	112	1250	.	1
38	CW	39	-1305	1300	.	.	.	.	.	106	.	.	.
39	CW	40	-1461	1456	.	.	.	.	.	104	.	.	.
40	CW	41	-1344	1339	.	.	.	.	.	106	.	.	.
41	CW	42	-1450	1445	.	.	.	.	.	106	.	.	.
42	CW	43	-1498	1494	.	.	.	.	.	173	1495	.	1
43	CW	44	1588	1584	1583	-1	1	986	.	95	1583	.	1
44	CW	45	763	757	757	.	2	997	.	98	757	.	1

000735

Quantitation Report File: A0402BK03

Data: A0402BK03.TI
04/02/91 13:03:00
Sample: WATER BLANK 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	282	3:46	1	1.000	A BB	7678.	50.000 UG/L	10.75
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	161	2:09	1	0.571	A BB	215.	~~0.933 UG/L~~	0.20
7	43	142	1:54	1	0.504	A BB	81.	~~1.039 UG/L~~	0.22
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	83	294	3:55	1	1.043	A BB	295.	~~0.598 UG/L~~	0.13
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	114	422	5:38	16	1.000	A BB	34755.	50.000 UG/L	10.75
17	NOT FOUND								
18	72	269	3:35	16	0.637	A BB	66.	~~2.613 UG/L~~	0.56
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	78	353	4:42	16	0.836	A BB	129.	~~0.166 UG/L~~	0.04
26	NOT FOUND								
27	65	352	4:42	16	0.834	A BB	13425.	102.122 %	21.96
28	117	1241	16:33	28	1.000	A BB	37554.	50.000 UG/L	10.75
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	43	1068	14:14	28	0.861	A*BV	148.	~~0.623 UG/L~~	0.13
33	NOT FOUND								
34	NOT FOUND								
35	83	1656	22:05	28	1.334	A BB	423.	~~0.844 UG/L~~	0.18
36	91	773	10:18	28	0.623	A*BB	251.	~~0.298 UG/L~~	0.06
37	112	1250	16:40	28	1.007	A BB	51.	~~0.068 UG/L~~	0.01
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	173	1495	19:56	16	3.543	A BB	19.	~~0.073 UG/L~~	0.02
43	95	1583	21:06	28	1.276	A BB	40472.	103.071 %	22.17
44	98	757	10:06	28	0.610	A BB	40434.	102.734 %	22.09

Quantitation Report File: A0402BK03A

Data: A0402BK03.TI
04/02/91 13:03:00
Sample: WATER BLANK 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	397	5:18	1	1.000	A BB	132154.	66.200	*100.

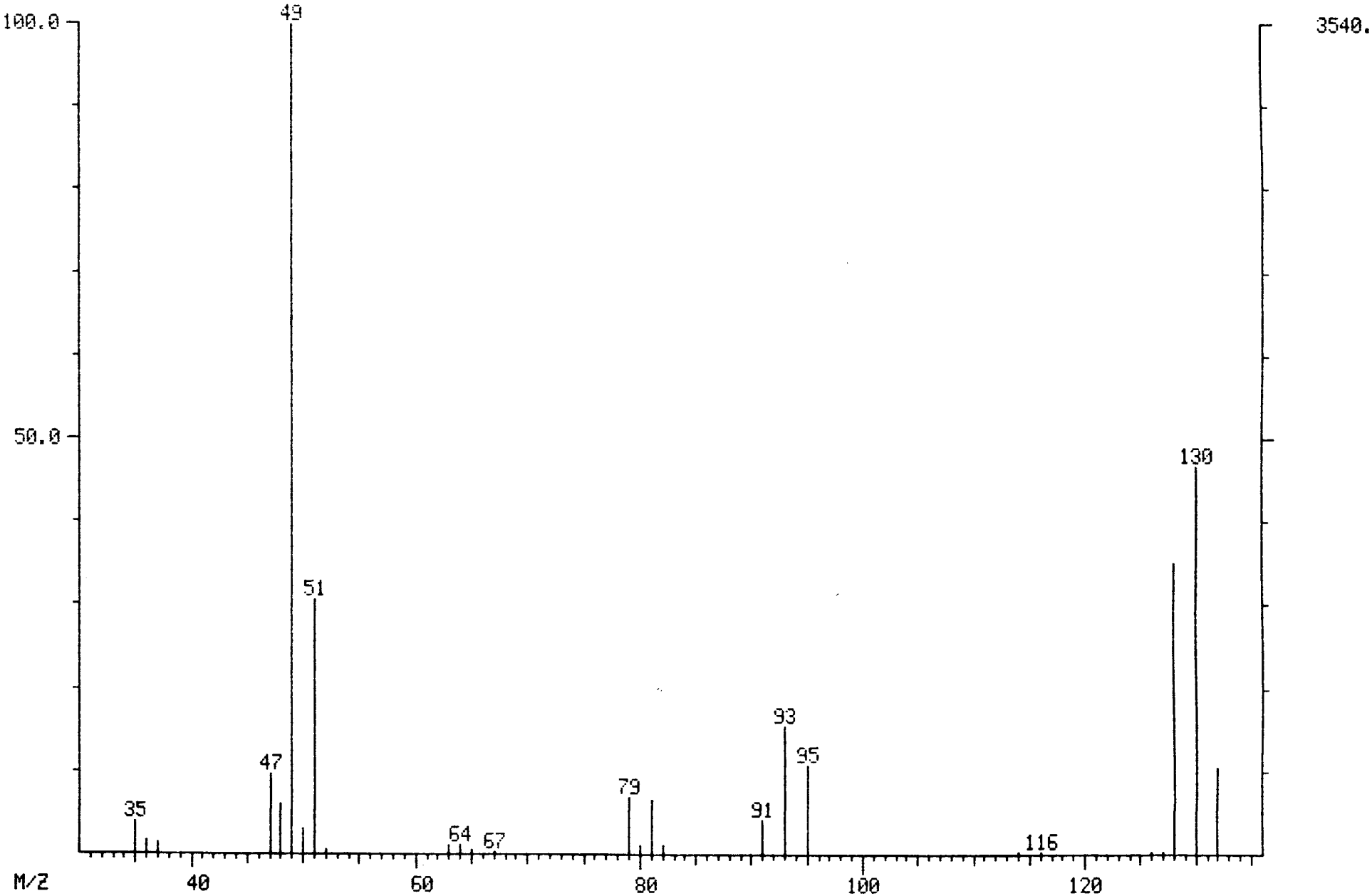
000738

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/02/91 13:03:00 + 3:46
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 #282
CALI: A0402BK03 #3

BASE M/Z: 49
RIC: 10592.

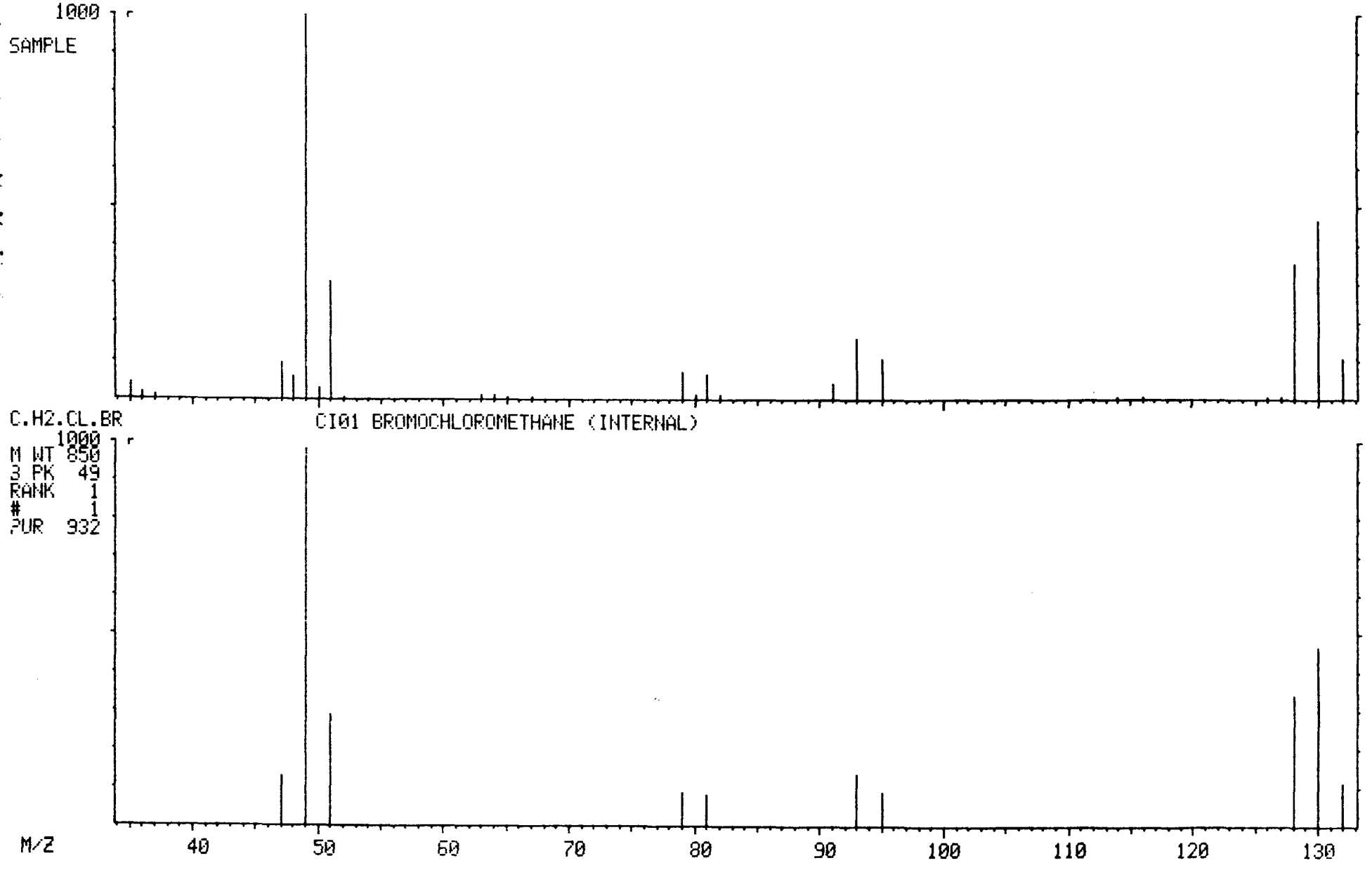


0007420

LIBRARY SEARCH
04/02/91 13:03:00 + 3:46
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 # 282
CALI: A0402BK03 # 3

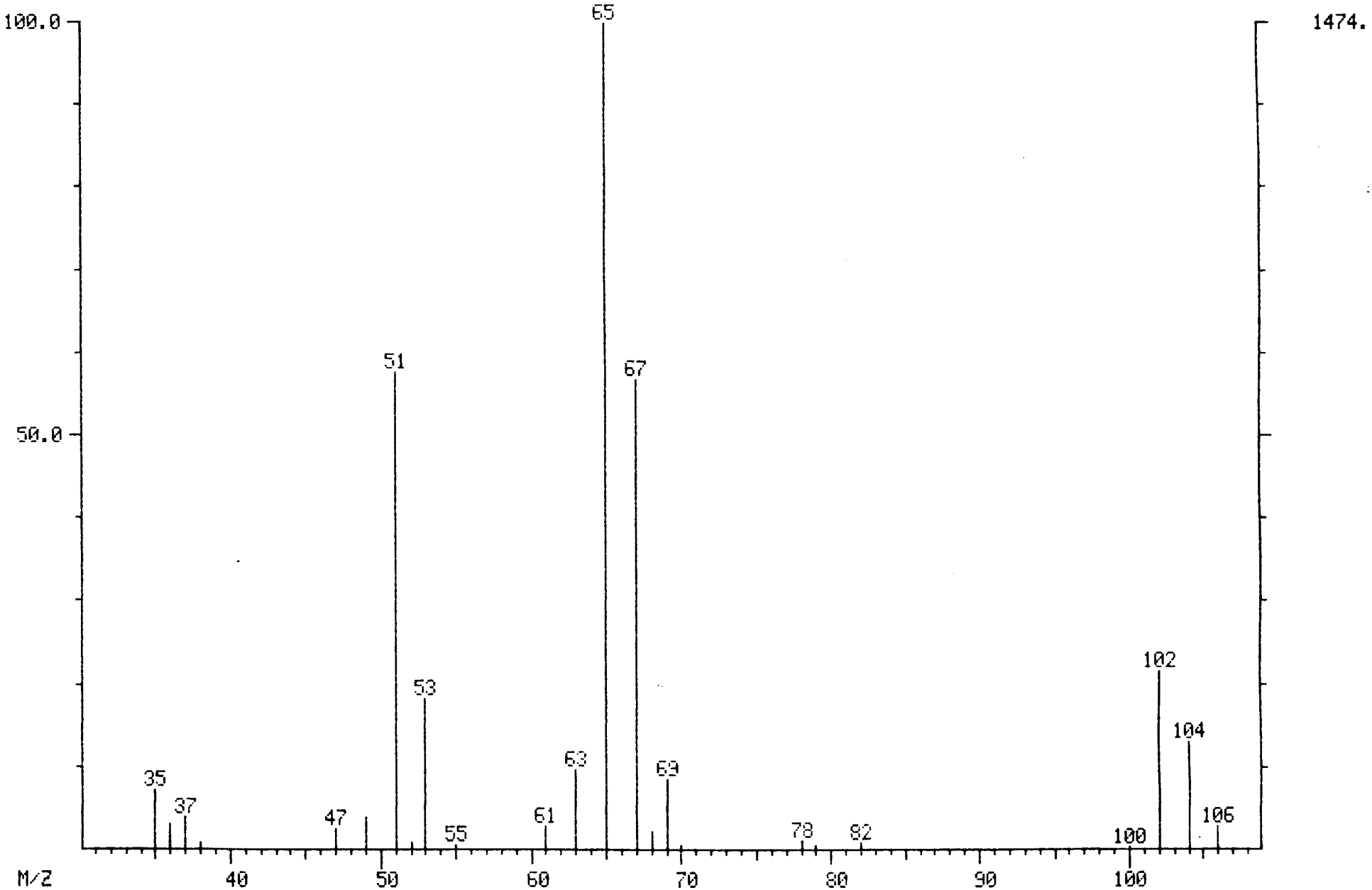
BASE M/Z: 49
RIC: 10591.



MASS SPECTRUM
04/02/91 13:03:00 + 4:42
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 #352
CALI: A0402BK03 #3

BASE M/Z: 65
RIC: 4712.

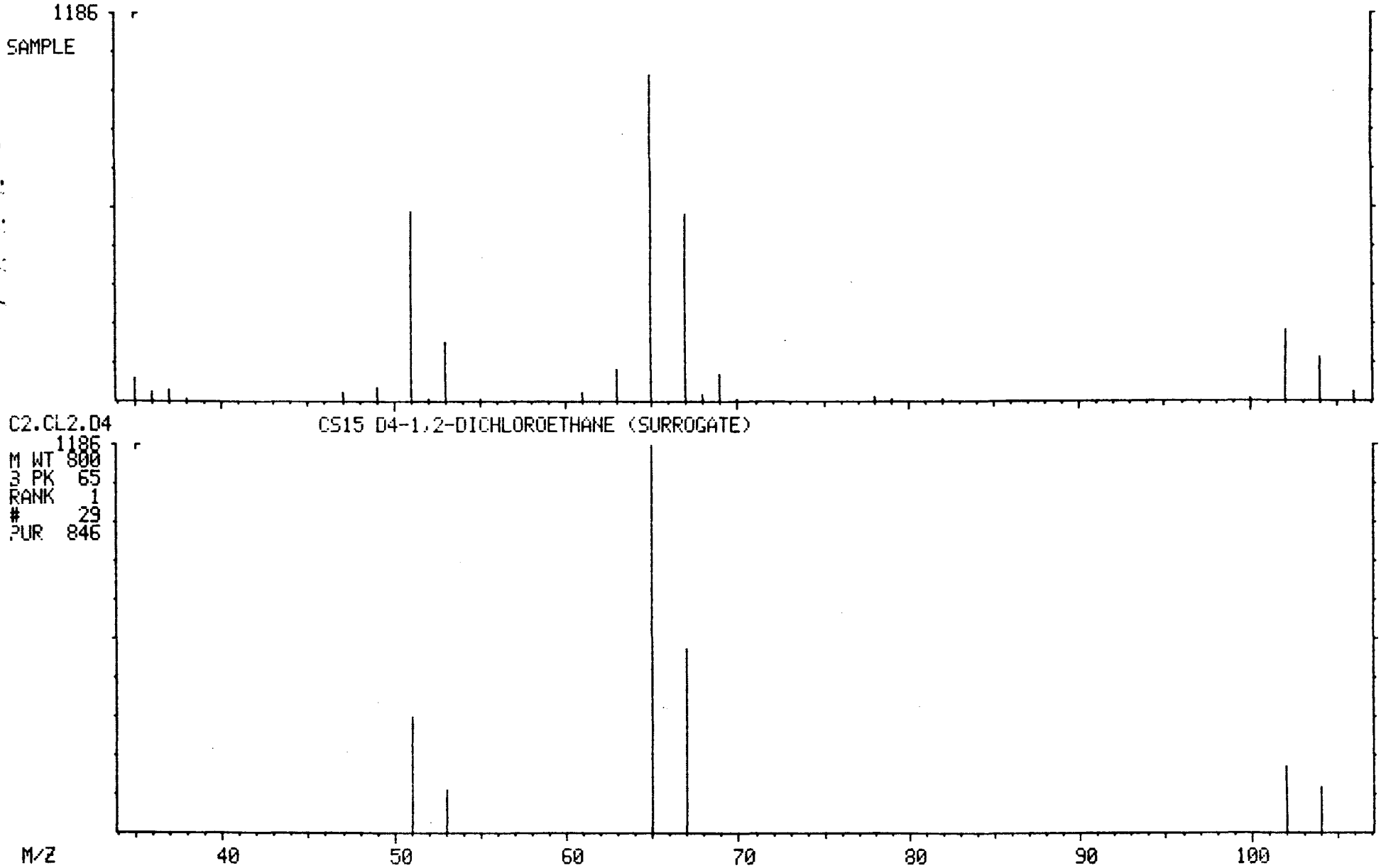


257000

LIBRARY SEARCH
04/02/91 13:03:00 + 4:42
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 # 352
CALI: A0402BK03 # 3

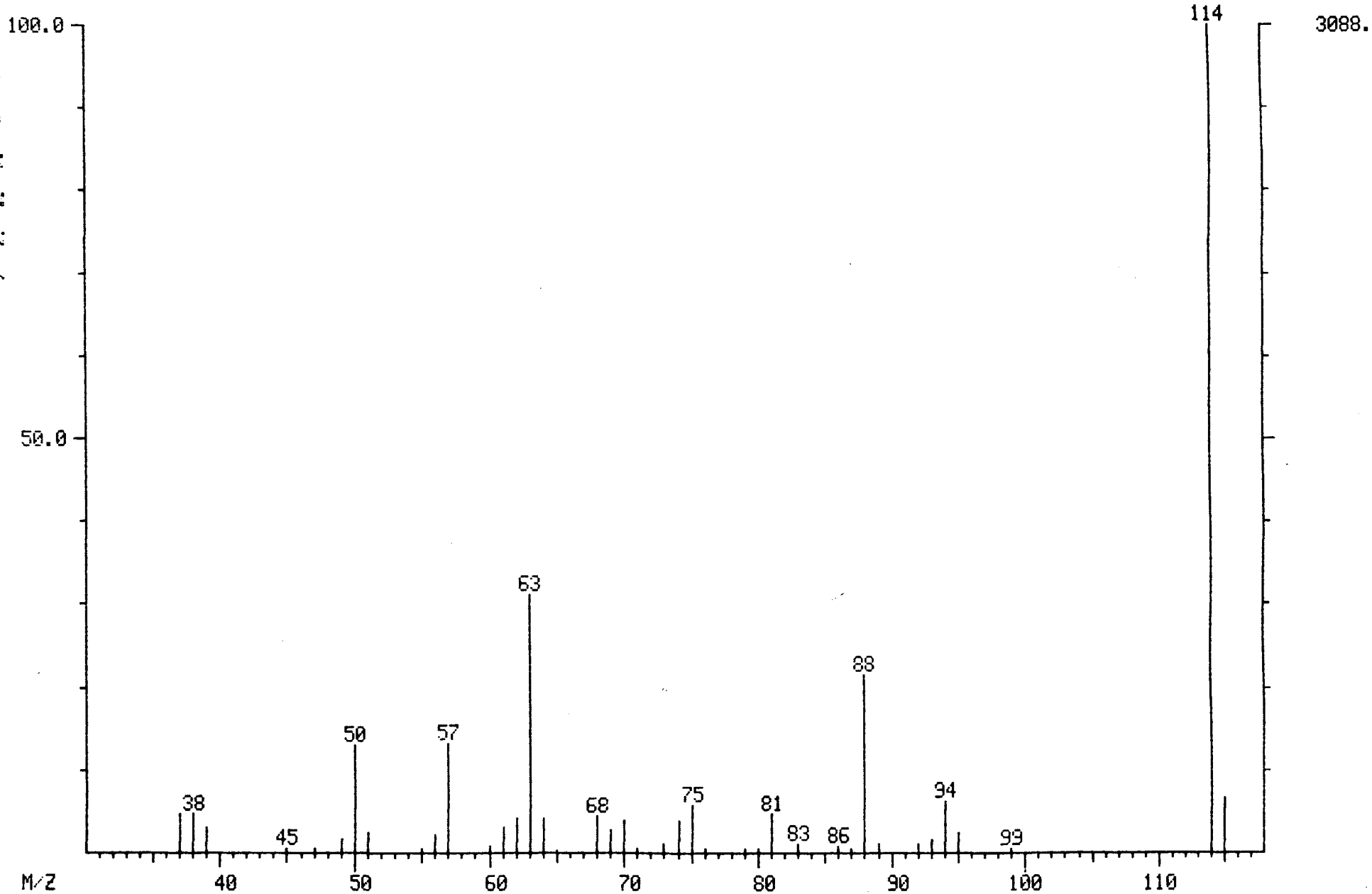
BASE M/Z: 65
RIC: 4711.



MASS SPECTRUM
04/02/91 13:03:00 + 5:38
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 #422
CALI: A0402BK03 #3

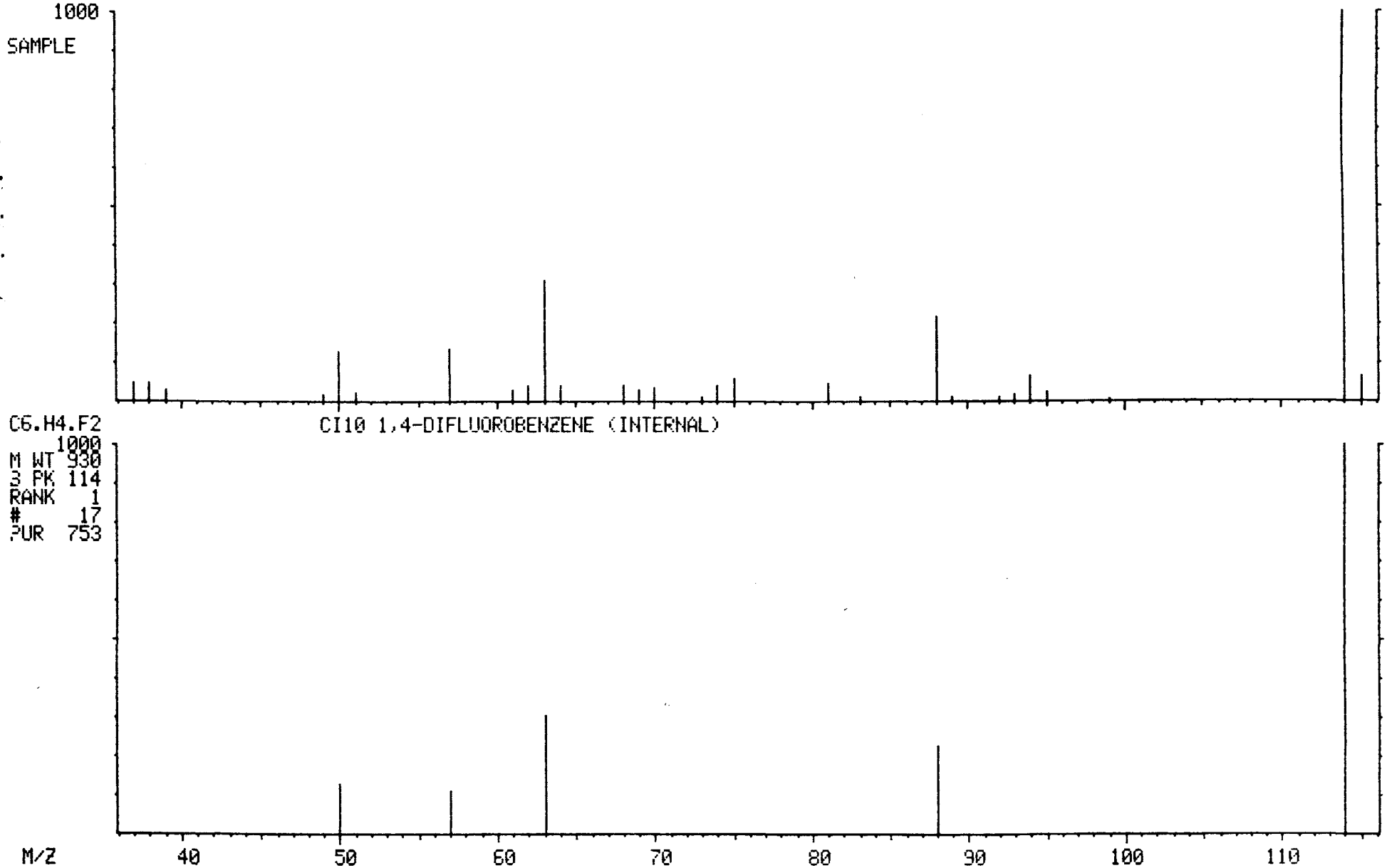
BASE M/Z: 114
RIC: 8144.



LIBRARY SEARCH
04/02/91 13:03:00 + 5:38
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 # 422
CALI: A0402BK03 # 3

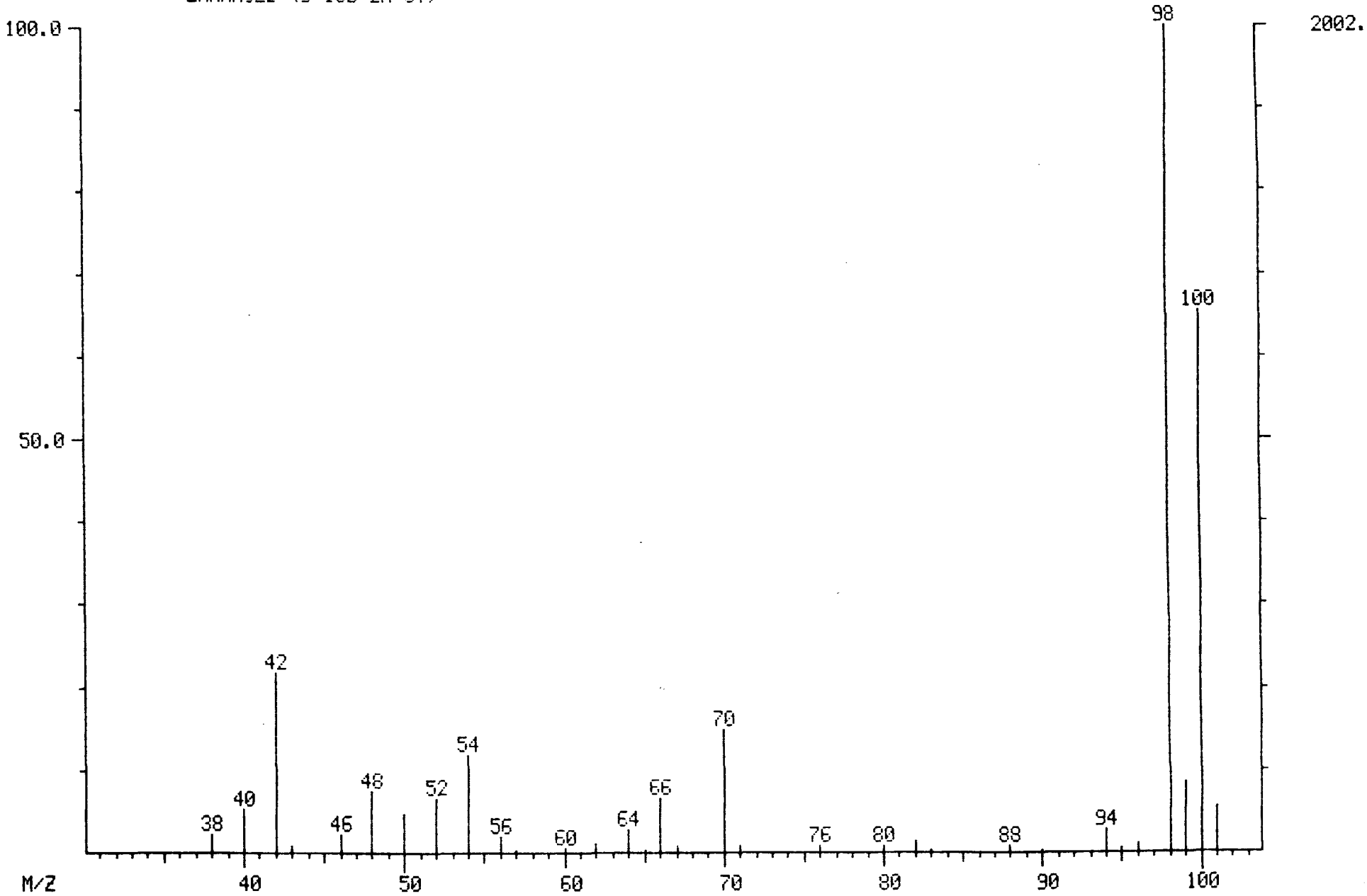
BASE M/Z: 114
RIC: 7871.



MASS SPECTRUM
04/02/91 13:03:00 + 10:06
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 #757
CALI: A0402BK03 #3

BASE M/Z: 98
RIC: 5648.

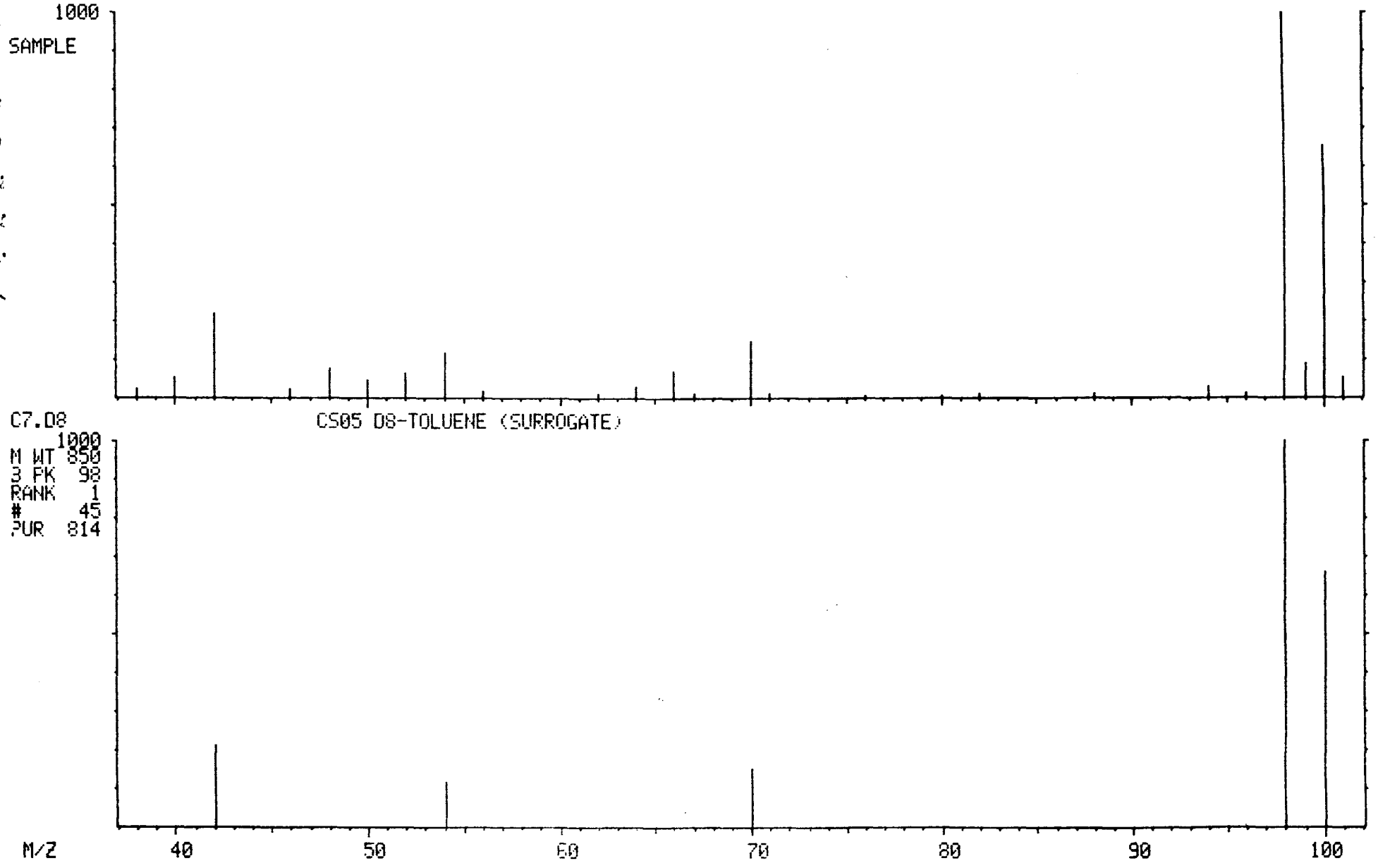


937000

LIBRARY SEARCH
04/02/91 13:03:00 + 10:06
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 # 757
CALI: A0402BK03 # 3

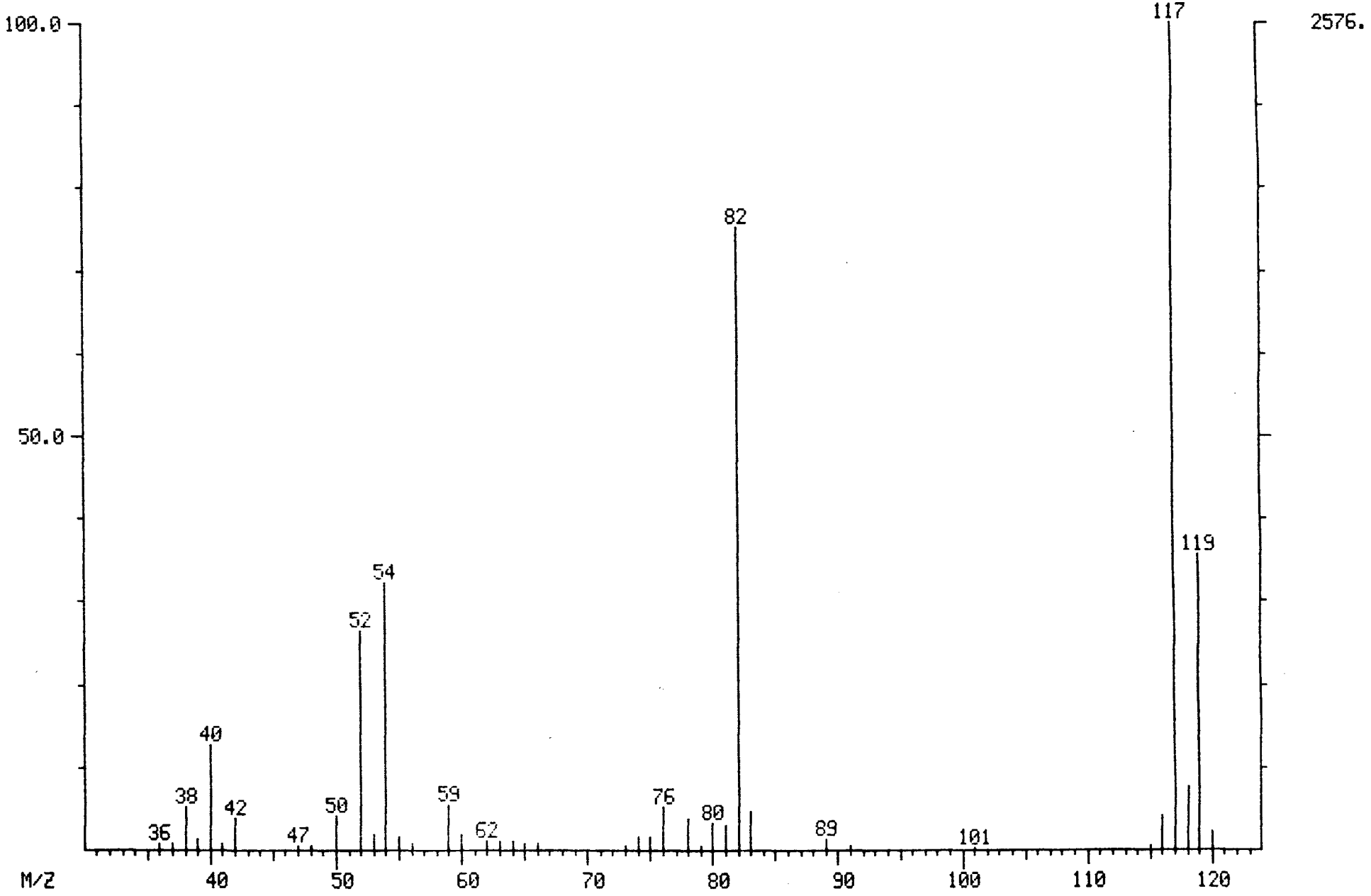
BASE M/Z: 98
RIC: 5583.



MASS SPECTRUM
04/02/91 13:03:00 + 16:33
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 60 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 #1241
CALI: A0402BK03 #3

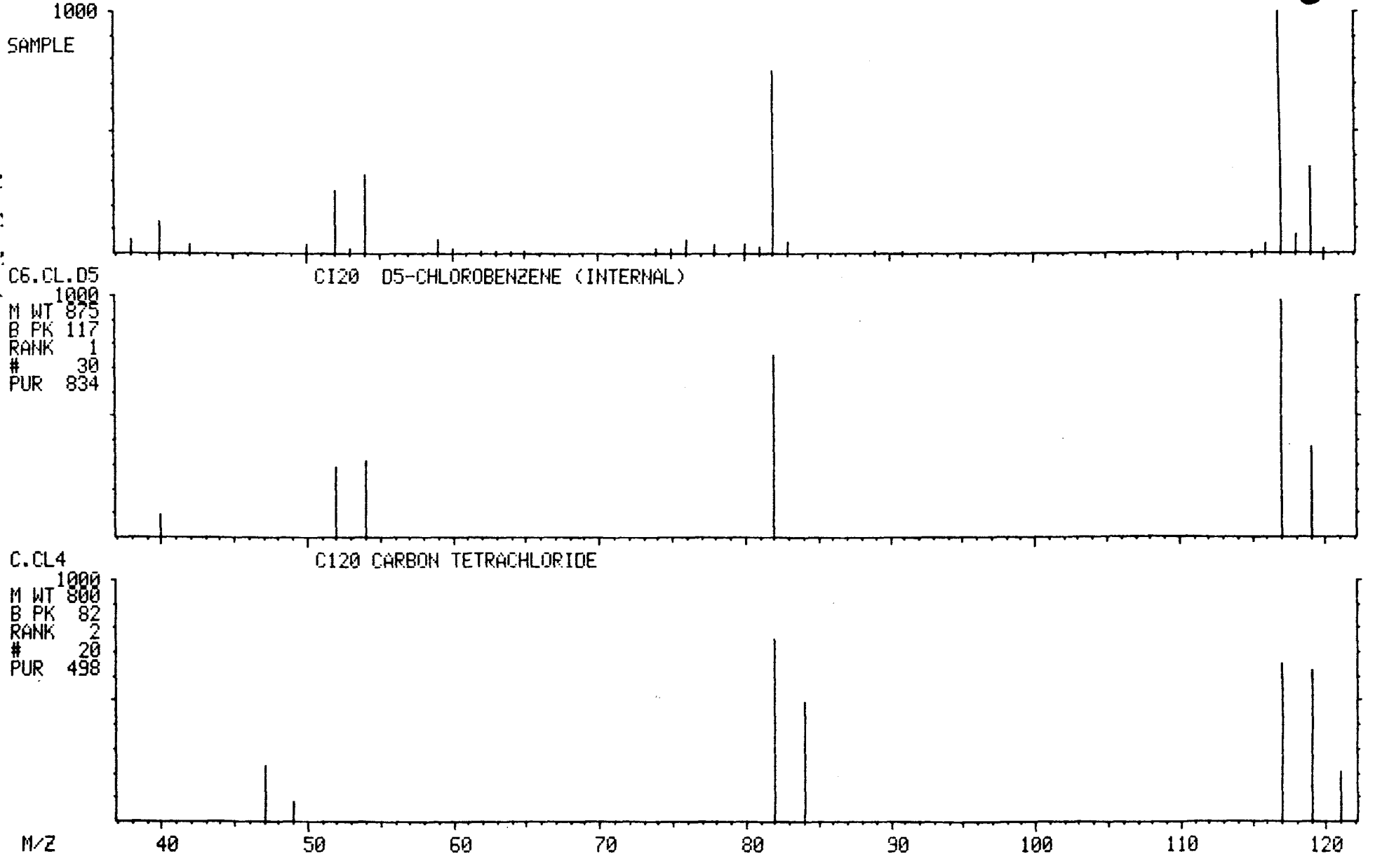
BASE M/Z: 117
RIC: 9280.



LIBRARY SEARCH
04/02/91 13:03:00 + 16:33
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 #1241
CALI: A0402BK03 # 3

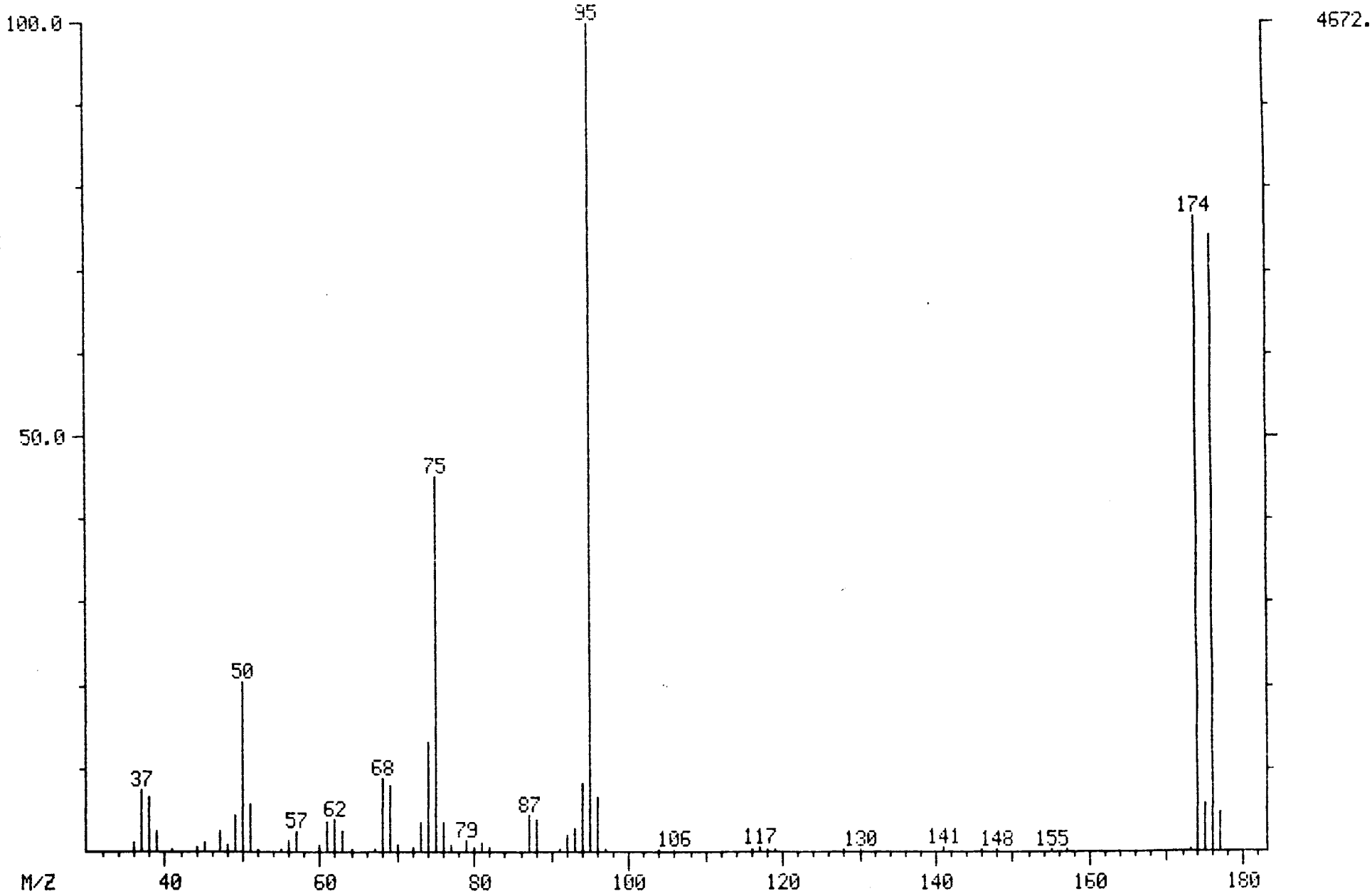
BASE M/Z: 117
RIC: 9007.



MASS SPECTRUM
04/02/91 13:03:00 + 21:06
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 #1583
CALI: A0402BK03 #3

BASE M/Z: 95
RIC: 21248.

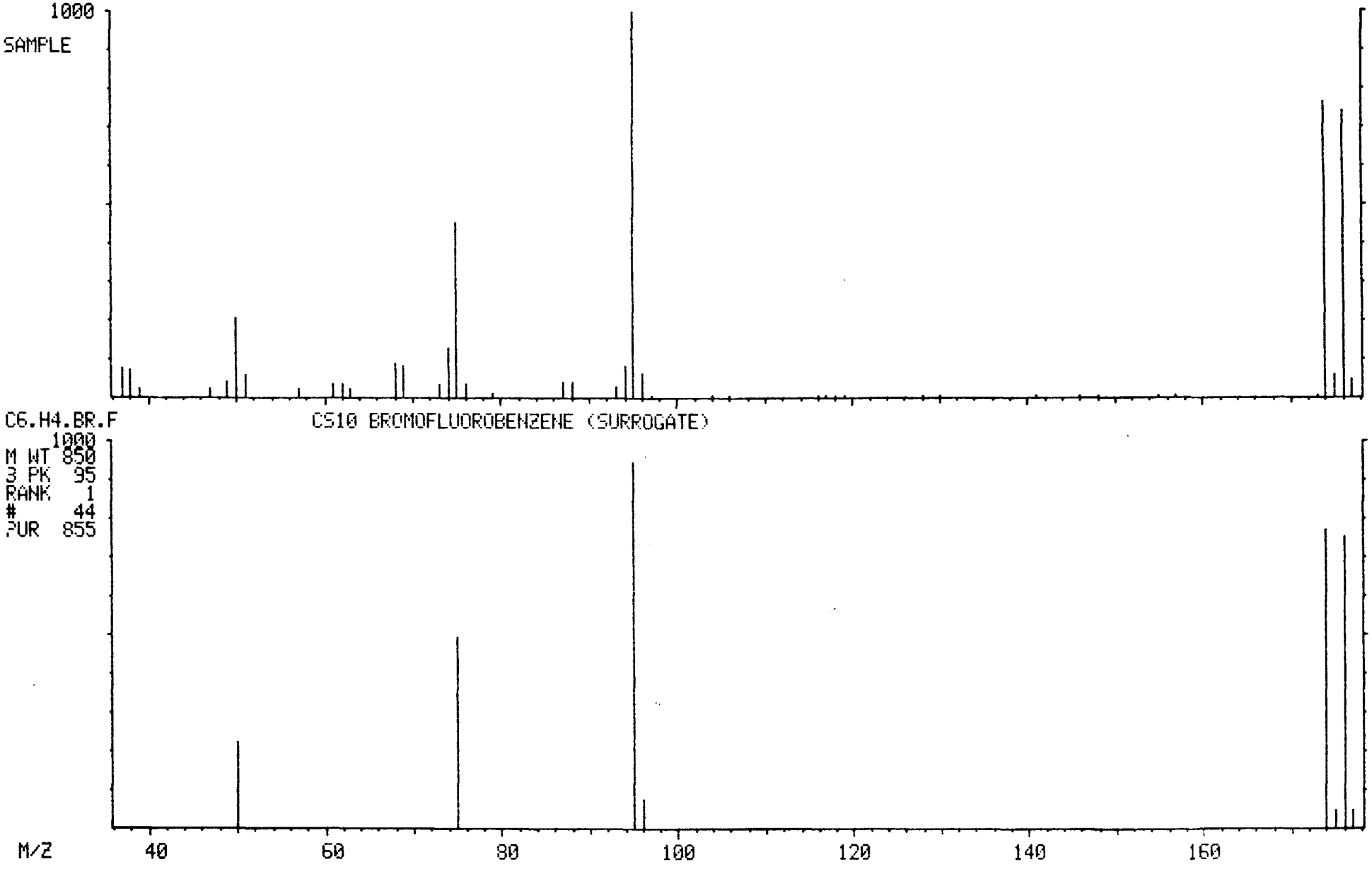


LIBRARY SEARCH
04/02/91 13:03:00 + 21:06
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 #1583
CALI: A0402BK03 # 3

BASE M/Z: 95
RIC: 20575.

TS4000



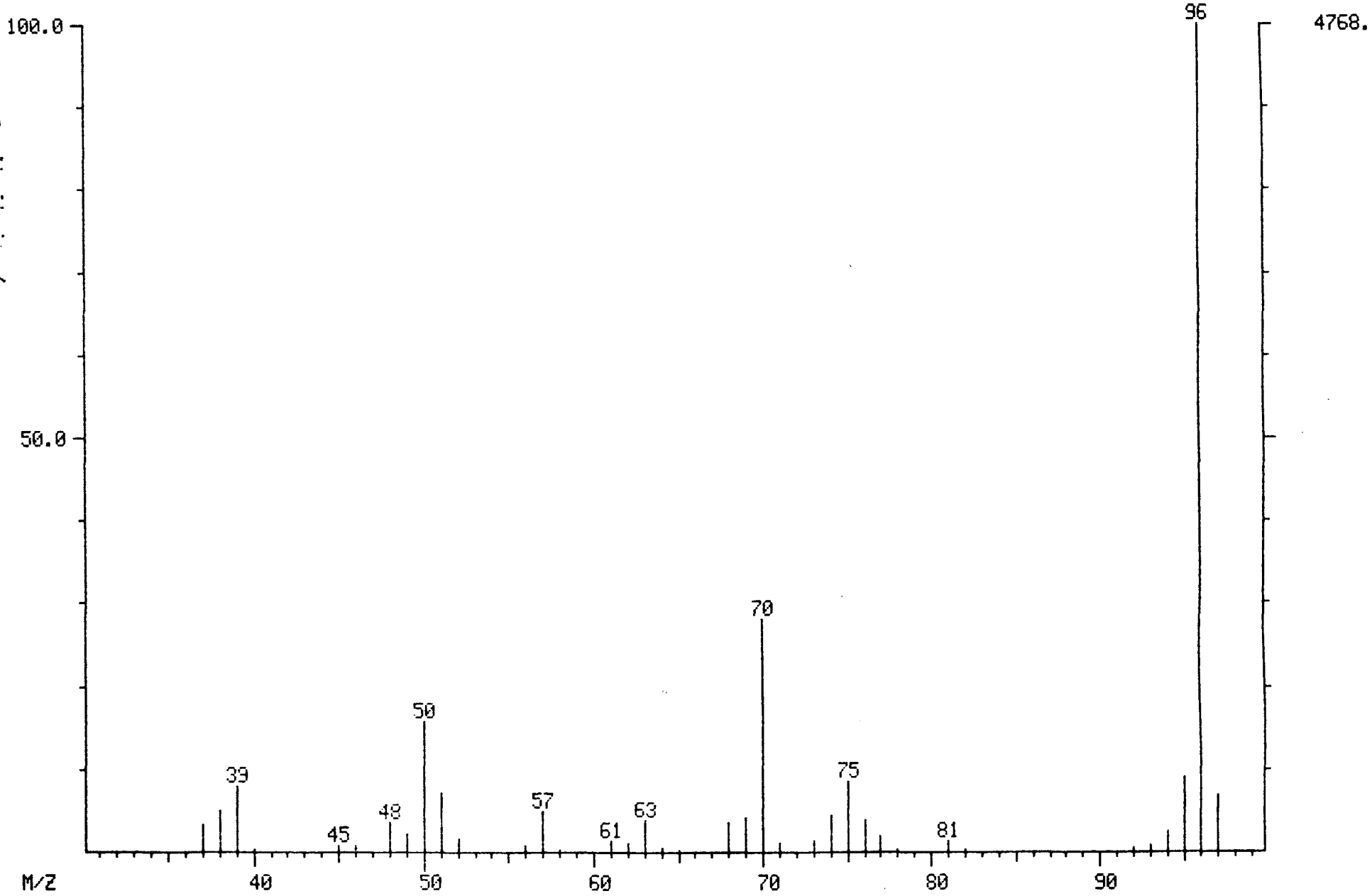
NON-TARGET COMPOUND SPECTRA

000752

MASS SPECTRUM
04/02/91 13:03:00 + 5:18
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 #397
CALI: A0402BK03 #3

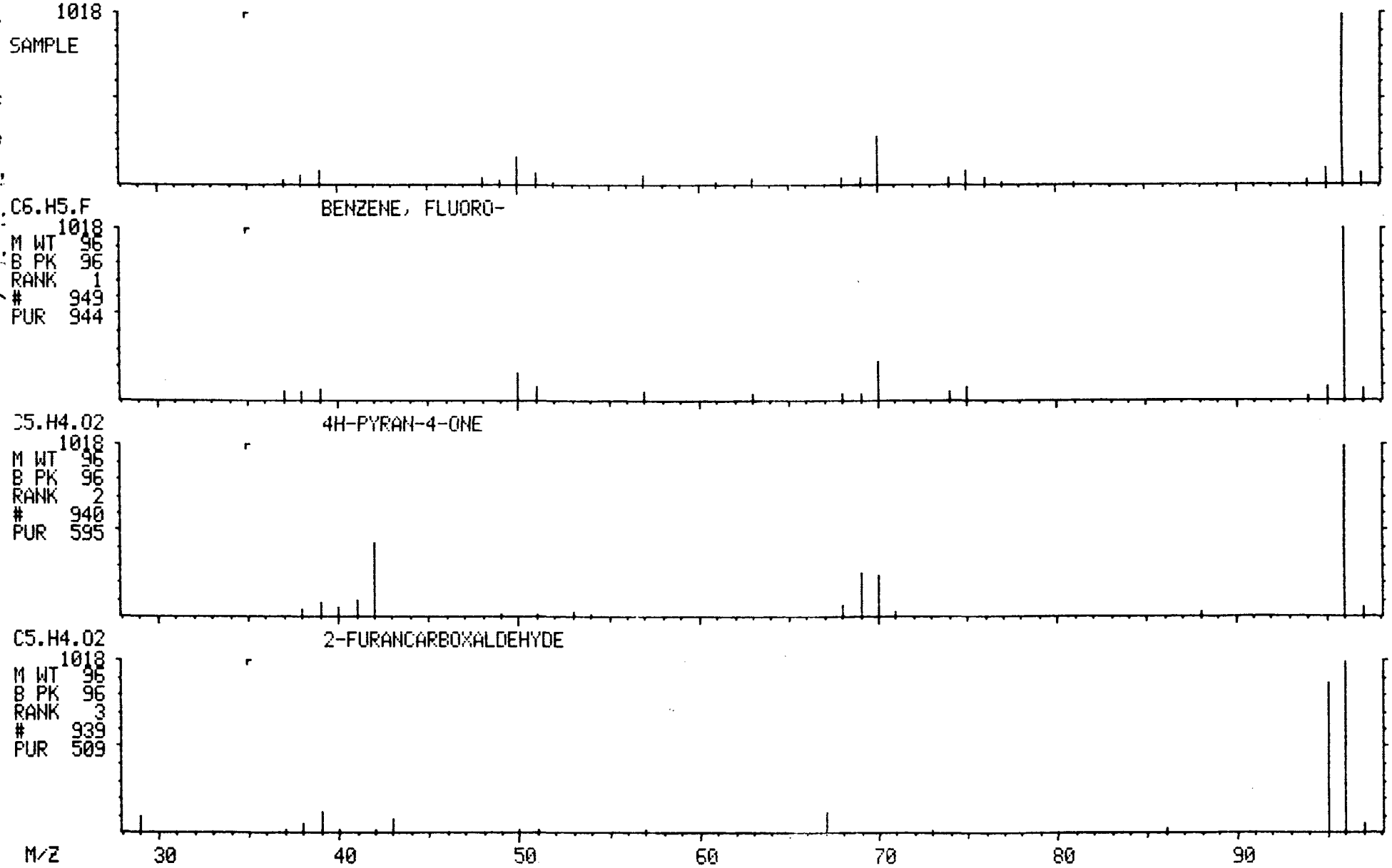
BASE M/Z: 96
RIC: 11504.



LIBRARY SEARCH
04/02/91 13:03:00 + 5:18
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0402BK03 # 397
CALI: A0402BK03 # 3

BASE M/Z: 96
RIC: 11039.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKW

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: 040391BLK

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0403BK03

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/03/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKW

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: 040391BLK

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0403BK03

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 04/03/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

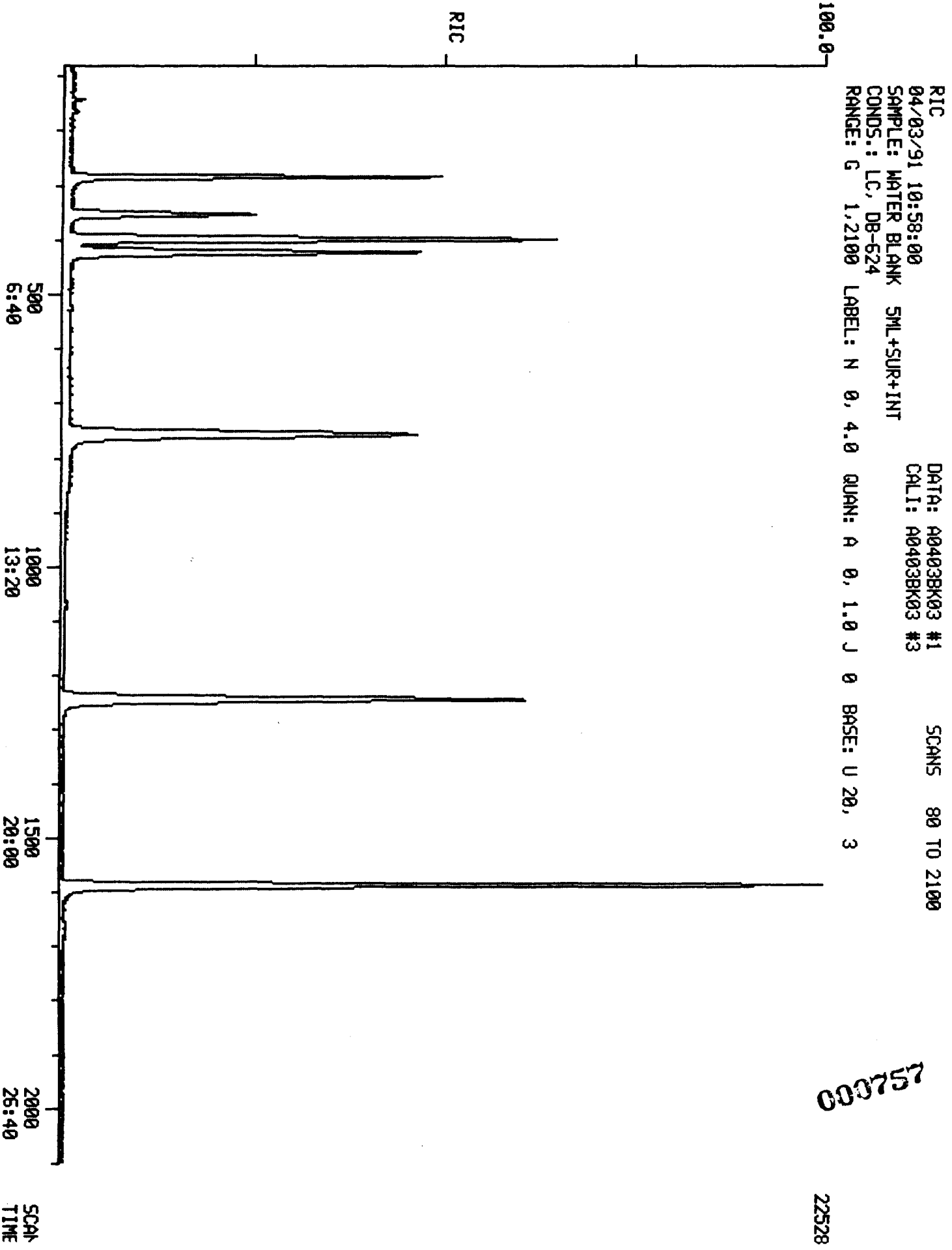
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000756

9 2 2 2 6 0 0 1 4 3 3

TCA FINISHED, 10 FOUND
FINISHED AT: 4/03/91 15:25:07

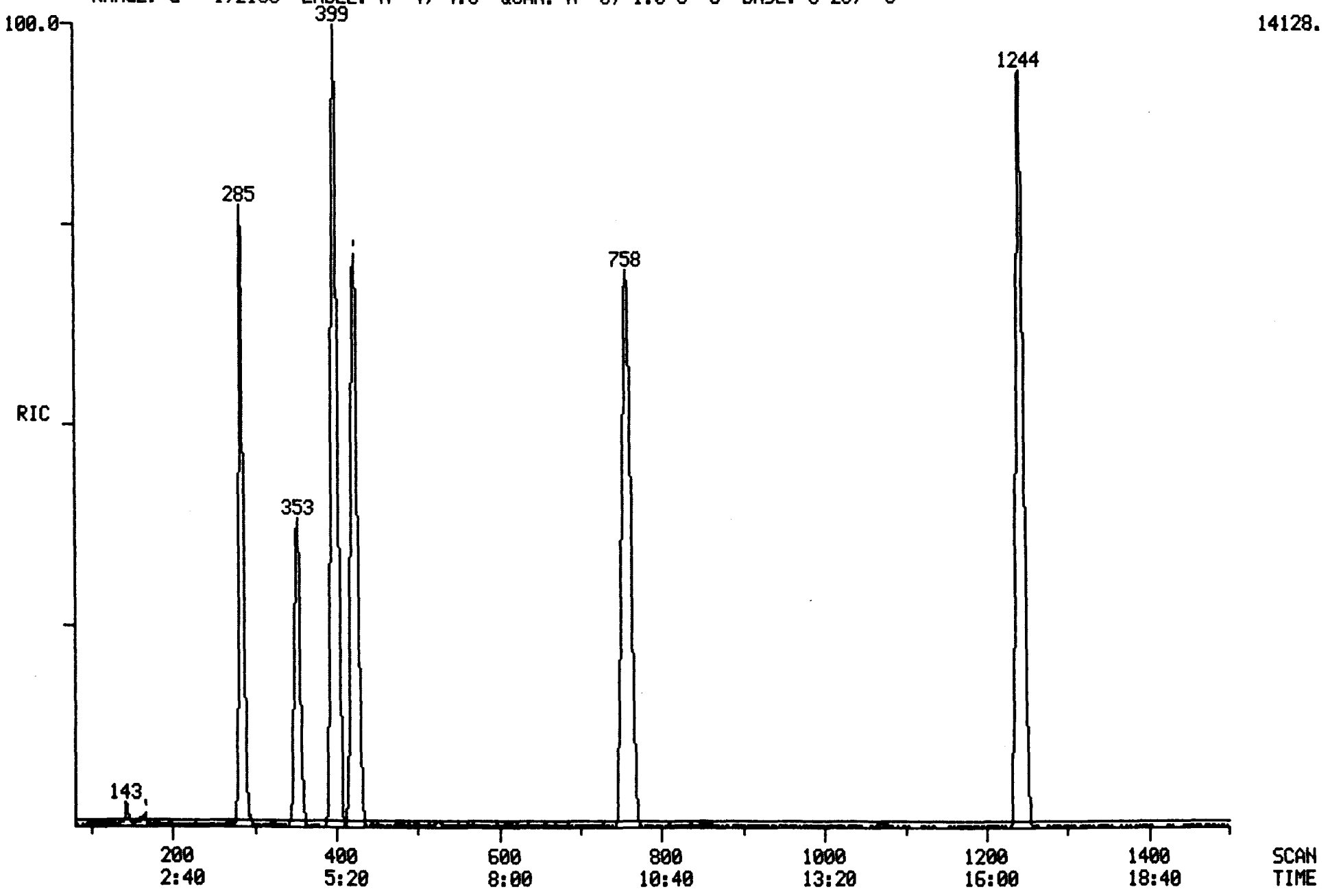


VBLKW

000757

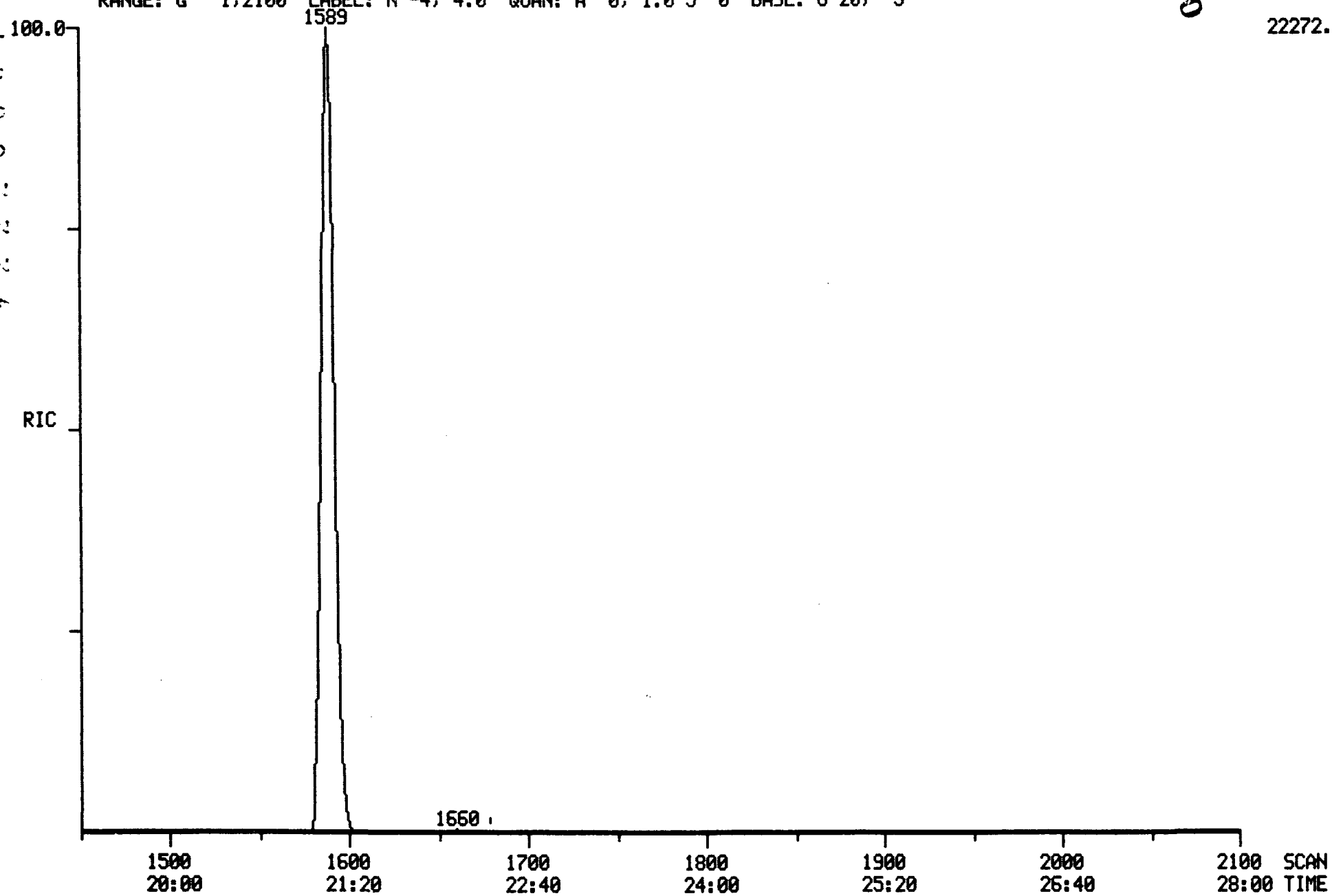
RIC
04/03/91 10:58:00
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0403BK03 #1 SCANS 80 TO 1500
CALI: A0403BK03 #3



RIC
04/03/91 10:58:00
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0403BK03 #1 SCANS 1450 TO 2100
CALI: A0403BK03 #3



4/3/91 10:58:54 SCAN 1 OF 2100
Acquisition started

Acquire
04/03/91 10:58:00 + 0:02
Sample: WATER BLANK 5ML+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:A0403BK03
Free sectors: 13454
Instrument: 5100
Analyst: BK

Acquiring
Scan: 2 of 2100
Weight: 0.000
Acct. No:

*** GC descriptor: LC ***

GC temperature: 32 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	Time (minutes) total
1	32- 32	-	5.0	5.0
2	32- 52	2.0	10.0	15.0
3	52-130	5.0	15.5	30.5
4	130-130	-	0.5	31.0

Valve times (minutes)	Open	Close
Sweep/Split	31.0	0.0
Divert	31.0	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 450 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10 Samp int (ms): 0.175 Peak width: 1000.
Frag S/P: 10 Actual: 10 Samp int (ms): 0.175 Inten/ion: 2

Min peak width: 3 Min frag width %: 80 Min area: 50
ADC threshold: 2 Baseline: 0

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	130.00	128.00
Resolution (low)	130.00	128.00
Ion energy	6.67	-4.00
Ion programming	4.08	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	2.00	not used

Electron multiplier voltage: -1659.
Electrometer Range: 10 ^-7

000760

4/3/91 11:26:55
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	4.7	1680.0	0.3	15609.	7.	9.

92226000143 7

000761

PROCEDURE: TCA DIAGNOSTIC REPORT 4/03/91 15:21:39
DATA FILE: A0403BK03
REFERENCE: CLWTAB11
NAME LIST: CLWDRIVER INITIALIZATION OPTION: 10 PROCESSING OPTION: 3
REPORT: CLWRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	1	12	CLWRT1/CLWTC1
1	1	1	0	12	3	2	14	CLWRT2/CLWTC2
1	1	1	0	17	4	2	235	CLWRT3/CLWTC3

44 COMPOUNDS PROCESSED, 10 FOUND

< COMPOUND ><			---------- SEARCH ----------							>< SAT ><	------ CHRO ------- >		
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CW	1	286	285	285	.	1	981	.	128	285	.	1
2	CW	2	-93	93	.	.	.	.	.	50	.	.	.
3	CW	3	-104	104	.	.	.	.	.	94	.	.	.
4	CW	4	-94	94	.	.	.	.	.	62	.	.	.
5	CW	5	-104	104	.	.	.	.	.	64	.	.	.
6	CW	6	166	166	166	.	1	950	.	84	166	.	1
7	CW	7	143	143	143	.	1	986	.	43	144	1	1
8	CW	8	-147	147	.	.	.	.	.	76	148	.	1
9	CW	9	137	137	.	.	.	.	.	96	.	.	.
10	CW	10	212	212	.	.	.	.	.	63	.	.	.
11	CW	12	298	297	.	.	.	.	.	83	298	.	1
12	CW	13	312	311	.	.	.	.	.	97	.	.	.
13	CW	14	112	112	.	.	.	.	.	101	.	.	.
14	CW	15	182	182	.	.	.	.	.	96	.	.	.
15	CW	16	262	261	.	.	.	.	.	96	.	.	.
16	CW	17	427	423	423	.	1	994	.	114	423	.	1
17	CW	18	365	363	.	.	.	.	.	62	.	.	.
18	CW	19	269	269	269	.	1	861	.	72	269	.	1
19	CW	20	330	329	.	.	.	.	.	117	.	.	.
20	CW	21	-220	221	.	.	.	.	.	43	219	.	2
21	CW	22	581	573	.	.	.	.	.	83	.	.	.
22	CW	23	506	500	.	.	.	.	.	63	.	.	.
23	CW	24	890	874	.	.	.	.	.	75	.	.	.
24	CW	25	463	458	.	.	.	.	.	130	.	.	.
25	CW	27	357	355	.	.	.	.	.	78	353	.	1
26	CW	28	684	674	.	.	.	.	.	106	.	.	.
27	CW	29	355	353	353	.	2	979	.	65	353	.	1
28	CW	30	1247	1244	1244	.	1	998	.	117	1244	.	1
29	CW	26	1066	1063	.	.	.	.	.	129	.	.	.
30	CW	31	943	939	.	.	.	.	.	97	.	.	.
31	CW	32	703	697	.	.	.	.	.	75	.	.	.
32	CW	33	-1069	1066	.	.	.	.	.	43	1069	.	1
33	CW	34	-774	769	.	.	.	.	.	43	774	.	1
34	CW	35	948	944	.	.	.	.	.	164	.	.	.
35	CW	36	1664	1665	1667	2	2	875	.	83	1662	-5	2
36	CW	37	782	777	.	.	.	.	.	91	773	.	1
37	CW	38	1254	1252	.	.	.	.	.	112	1250	.	1
38	CW	39	1306	1304	.	.	.	.	.	106	.	.	.
39	CW	40	-1463	1462	.	.	.	.	.	104	.	.	.
40	CW	41	1345	1343	.	.	.	.	.	106	.	.	.
41	CW	42	-1453	1452	.	.	.	.	.	106	.	.	.
42	CW	43	1500	1500	.	.	.	.	.	173	.	.	.
43	CW	44	1591	1591	1589	-2	1	989	.	95	1589	.	1
44	CW	45	763	757	758	1	1	997	.	98	758	.	1

000762

Quantitation Report File: A0403BK03

Data: A0403BK03.TI
04/03/91 10:58:00
Sample: WATER BLANK 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	CI20 D5-CHLOROBENZENE (INTERNAL)
29	C155 DIBROMOCHLOROMETHANE
30	C160 1,1,2-TRICHLOROETHANE
31	C172 TRANS-1,3-DICHLOROPROPENE
32	C210 2-HEXANONE (MBK)
33	C205 4-METHYL-2-PENTANONE (MIBK)
34	C220 TETRACHLOROETHYLENE
35	C225 1,1,2,2-TETRACHLOROETHANE
36	C230 TOLUENE
37	C235 CHLOROBENZENE
38	C240 ETHYLBENZENE
39	C245 STYRENE
40	C250 M&P-XYLENES
41	C250 O-XYLENE
42	C180 BROMOFORM
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	285	3:48	1	1.000	A BB	7652.	50.000 UG/L	10.88
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	166	2:13	1	0.582	A BB	107.	~~0.460 UG/L~~	0.10
7	43	144	1:55	1	0.505	A BB	831.	~~12.266 UG/L~~	2.67
8	76	148	1:58	1	0.519	A BB	26.	~~0.047 UG/L~~	0.01
9	NOT FOUND								
10	NOT FOUND								
11	83	298	3:58	1	1.046	A BB	153.	~~0.304 UG/L~~	0.07
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	114	423	5:38	16	1.000	A BB	34353.	50.000 UG/L	10.88
17	NOT FOUND								
18	72	269	3:35	16	0.636	A BB	21.	~~0.756 UG/L~~	0.16
19	NOT FOUND								
20	43	219	2:55	16	0.518	A*BV	325.	~~0.878 UG/L~~	0.19
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	78	353	4:42	16	0.835	A BB	33.	0.043 UG/L	0.01
26	NOT FOUND								
27	65	353	4:42	16	0.835	A BB	12866.	94.734 %	20.61
28	117	1244	16:35	28	1.000	A BB	37151.	50.000 UG/L	10.88
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	43	1069	14:15	28	0.859	A BB	241.	~~0.901 UG/L~~	0.20
33	43	774	10:19	28	0.622	A VV	551.	~~1.675 UG/L~~	0.37
34	NOT FOUND								
35	83	1662	22:10	28	1.336	A*BV	472.	~~0.912 UG/L~~	0.20
36	91	773	10:18	28	0.621	A BB	121.	~~0.145 UG/L~~	0.03
37	112	1250	16:40	28	1.005	A BB	31.	~~0.040 UG/L~~	0.01
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	95	1589	21:11	28	1.277	A BB	39598.	97.177 %	21.14
44	98	758	10:06	28	0.609	A BB	40797.	99.529 %	21.65

Quantitation Report File: A0403BK03A

Data: A0403BK03.TI
04/03/91 10:58:00
Sample: WATER BLANK 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	399	5:19	1	1.000	A BB	128488.	66.200	*100.

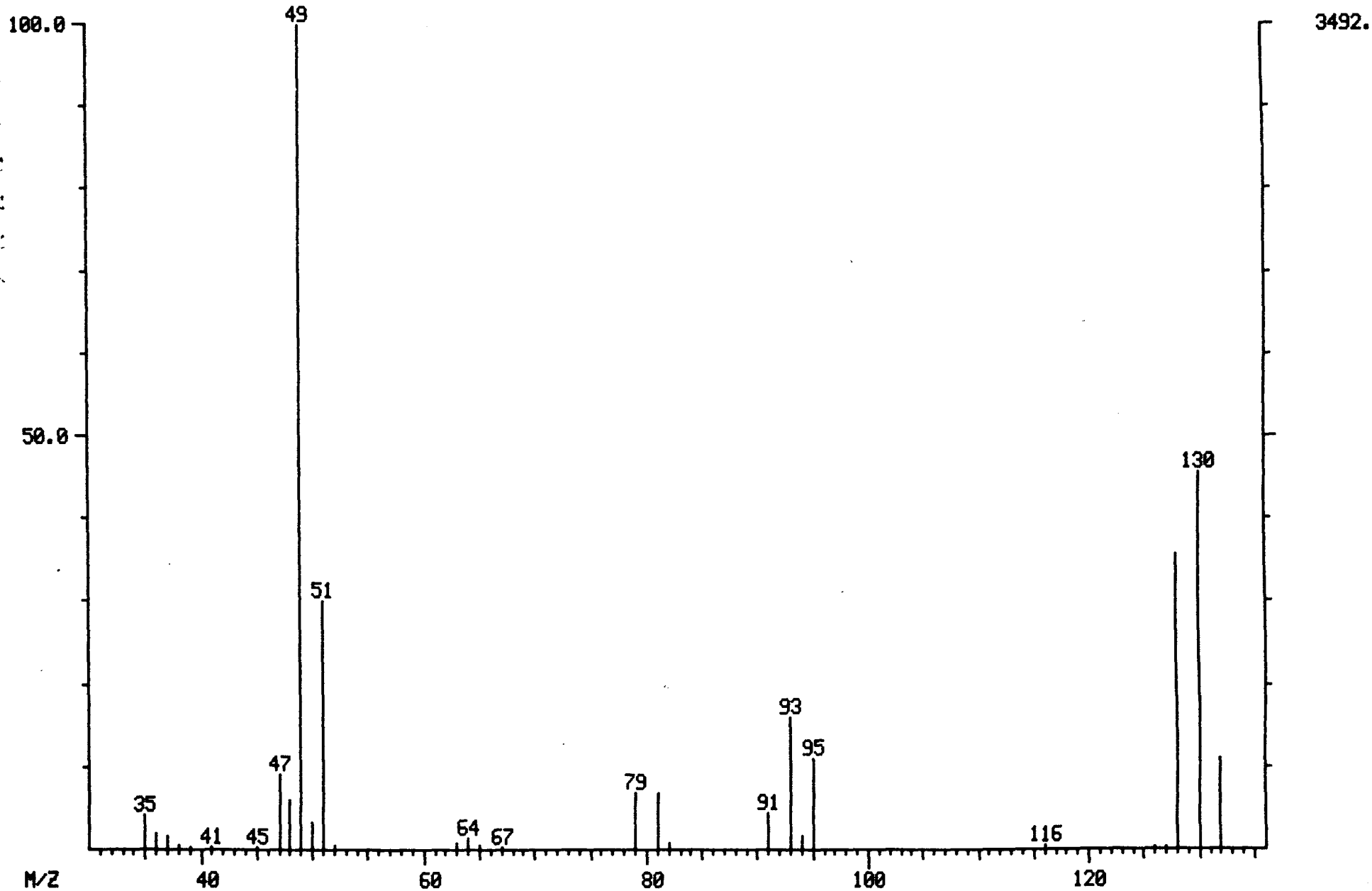
000765

TARGET COMPOUND SPECTA

MASS SPECTRUM
04/03/91 10:58:00 + 3:48
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 38 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 #285
CALI: A0403BK03 #3

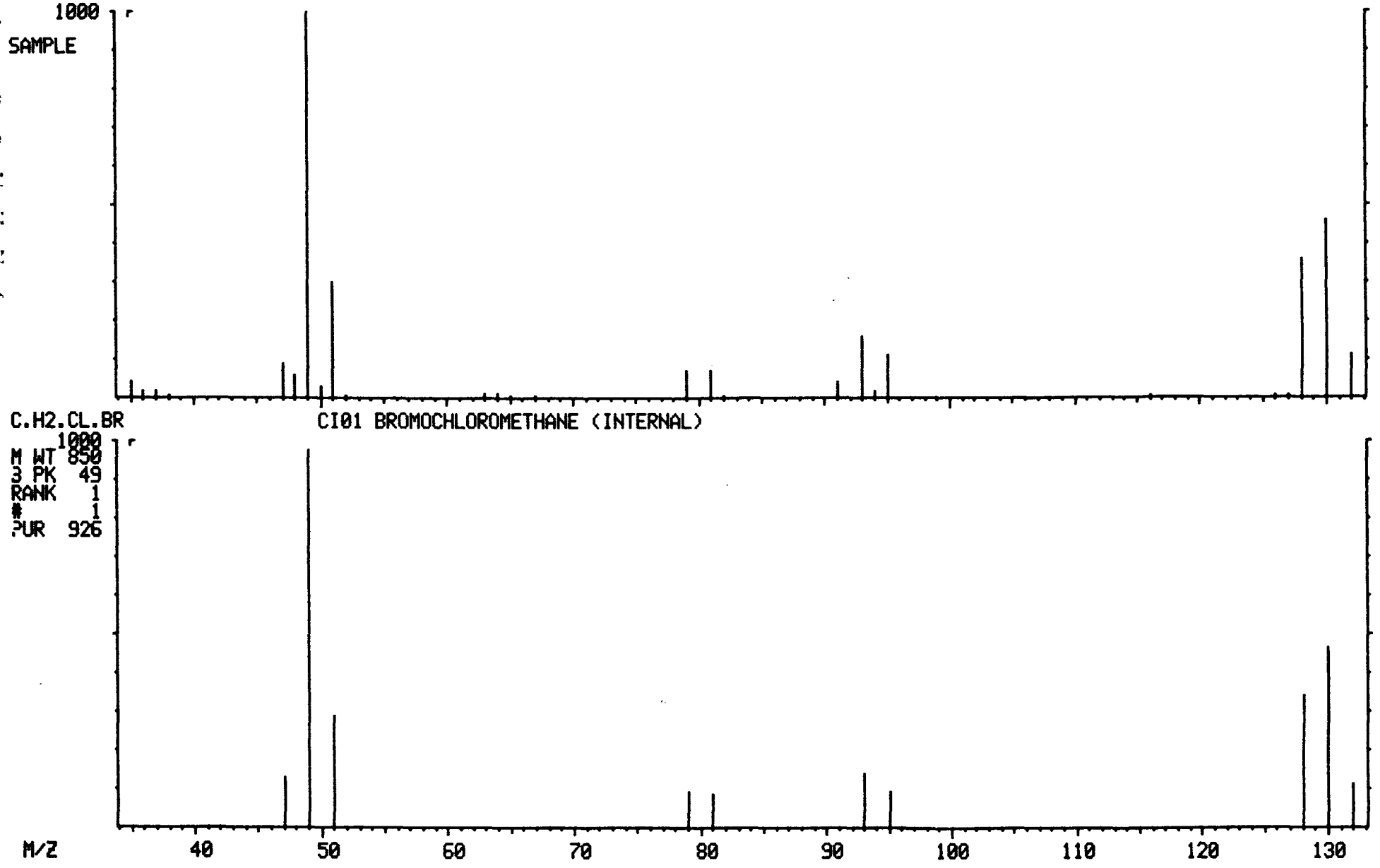
BASE M/Z: 49
RIC: 10560.



LIBRARY SEARCH
04/03/91 10:58:00 + 3:48
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 # 285
CALI: A0403BK03 # 3

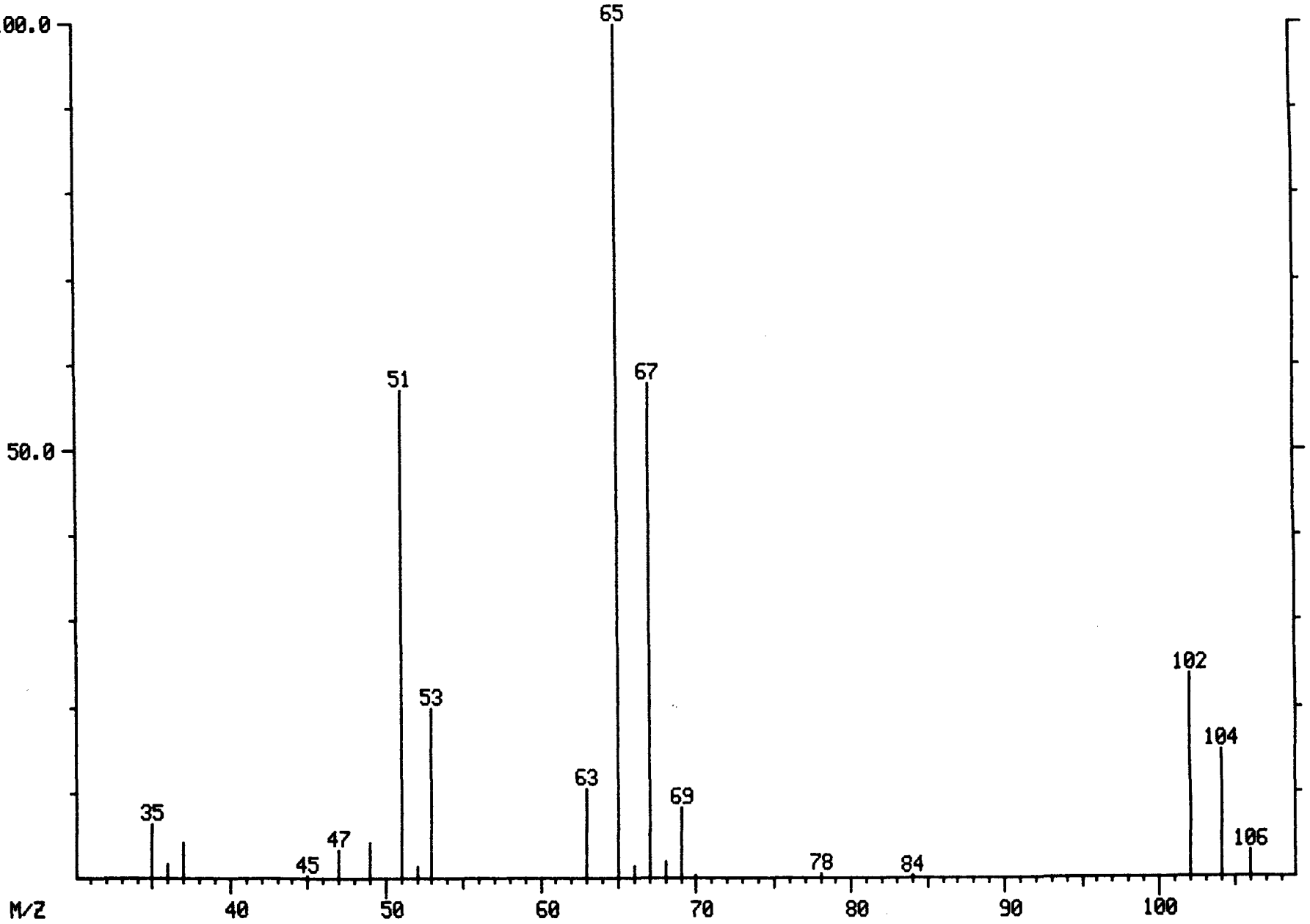
BASE M/Z: 49
RIC: 10527.



MASS SPECTRUM
04/03/91 10:58:00 + 4:42
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 #353
CALI: A0403BK03 #3

BASE M/Z: 65
RIC: 4704.



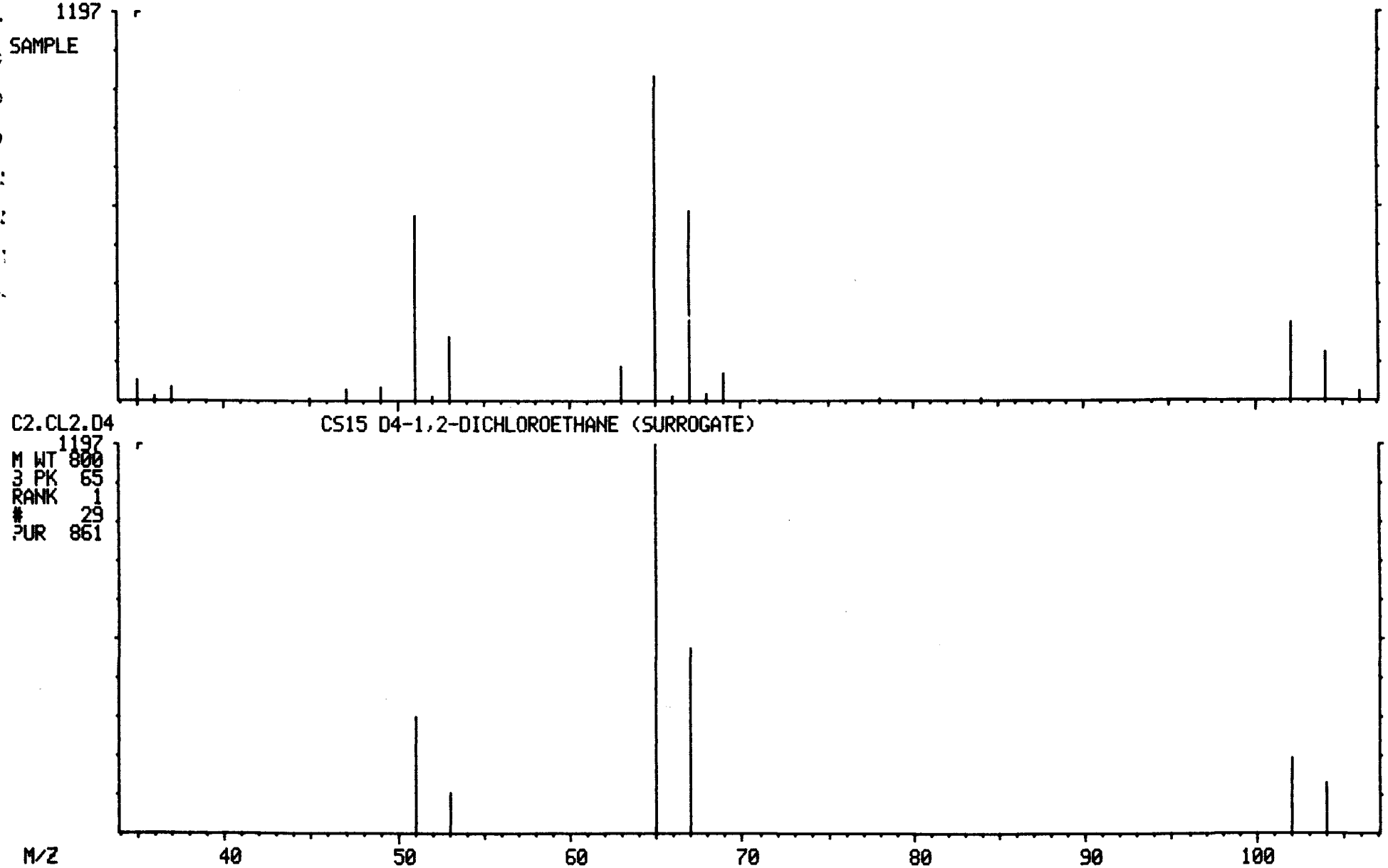
1464.

9222600144 5

LIBRARY SEARCH
04/03/91 10:58:00 + 4:42
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 # 353
CALI: A0403BK03 # 3

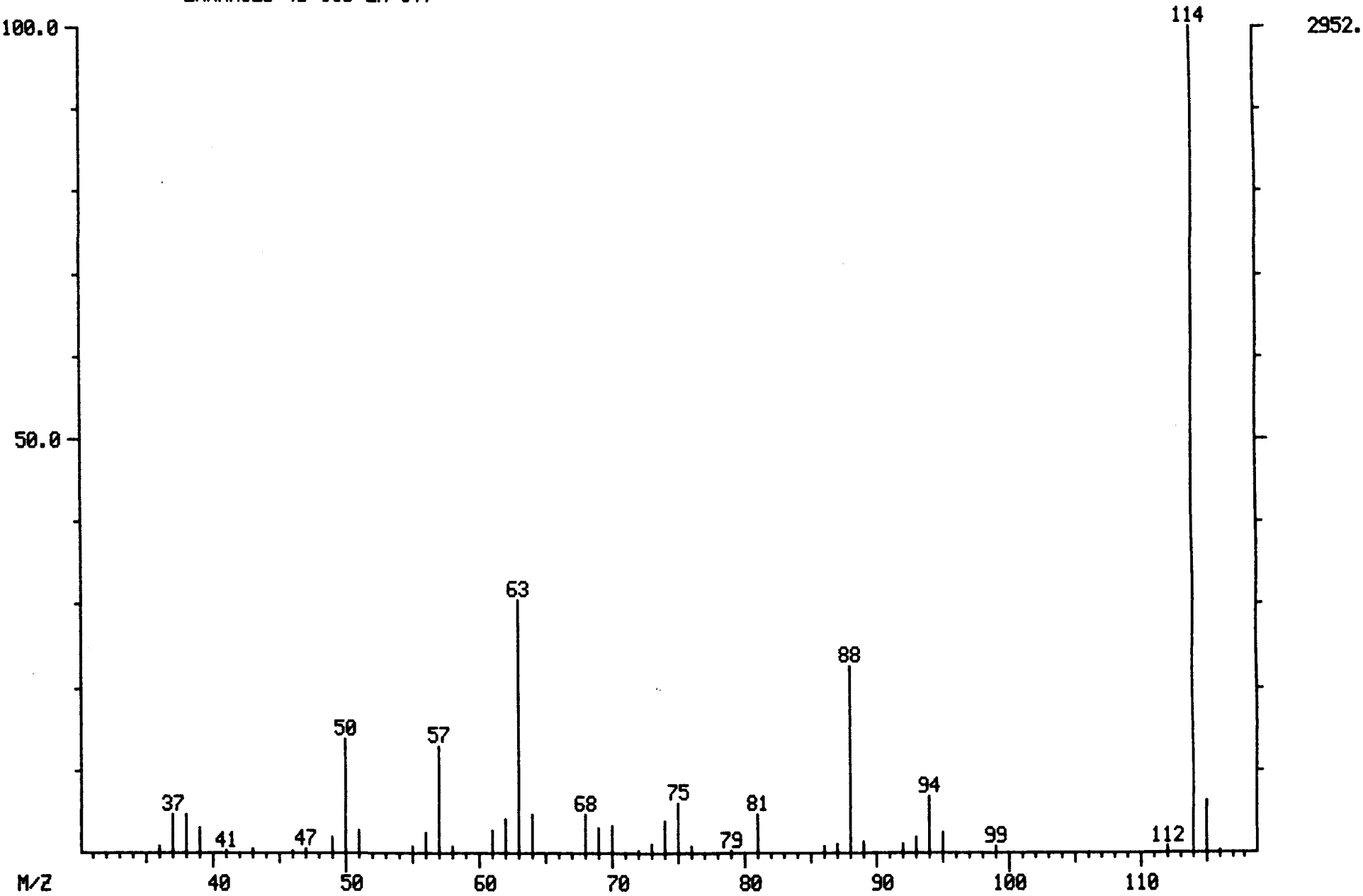
BASE M/Z: 65
RIC: 4695.



MASS SPECTRUM
04/03/91 10:58:00 + 5:38
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 #423
CALI: A0403BK03 #3

BASE M/Z: 114
RIC: 7920.



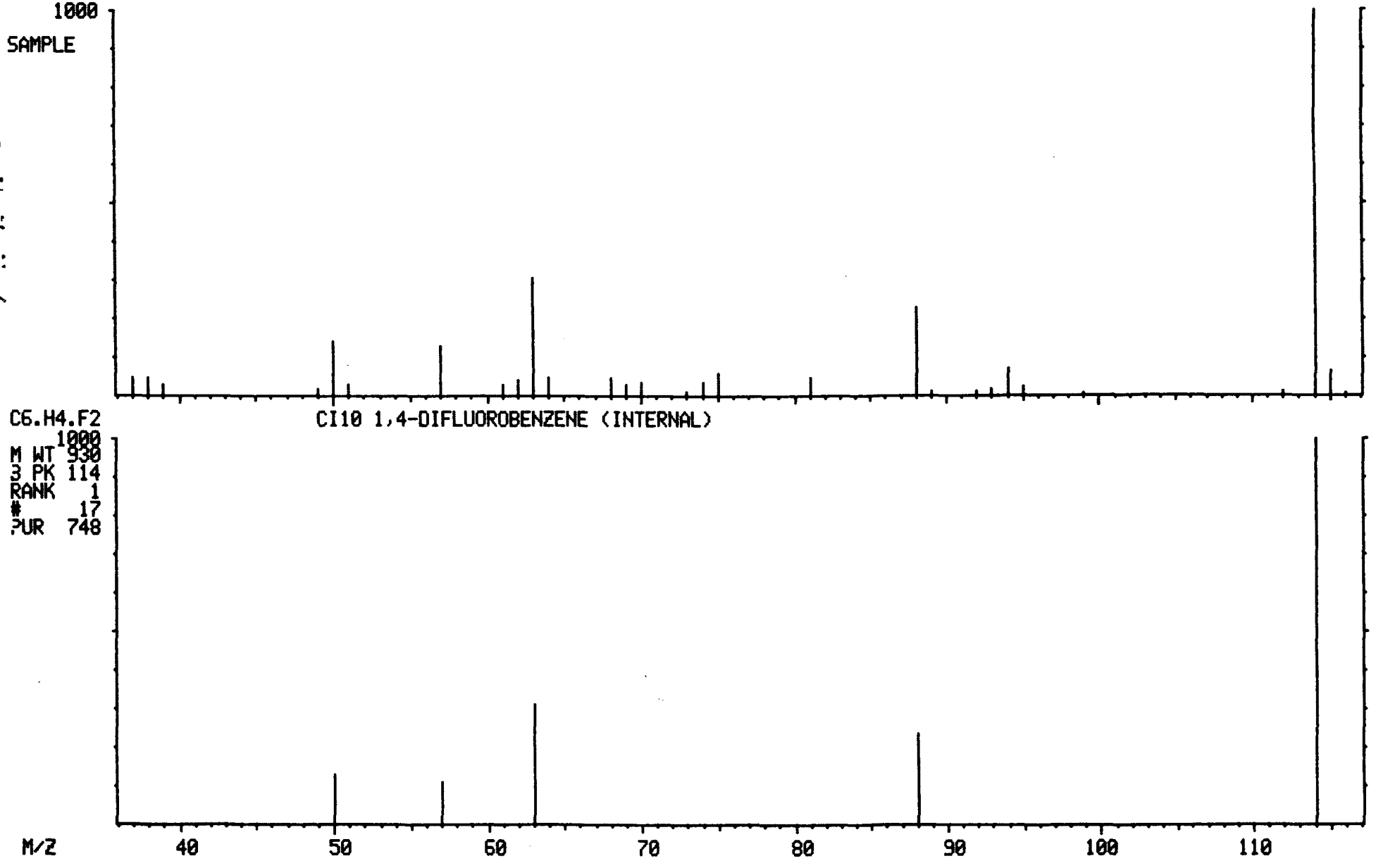
9222600147

00077

LIBRARY SEARCH
04/03/91 10:58:00 + 5:38
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 # 423
CALI: A0403BK03 # 3

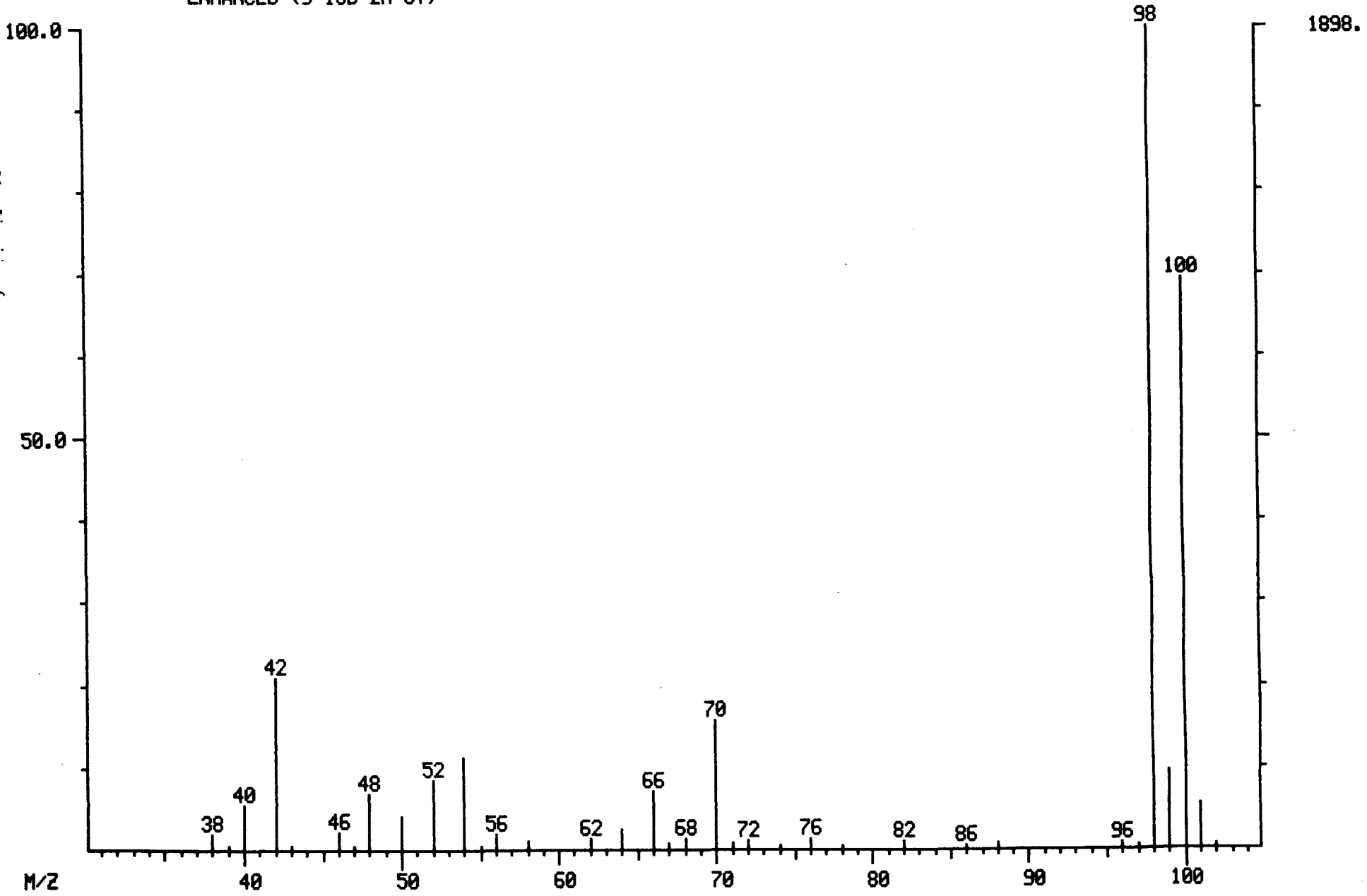
BASE M/Z: 114
RIC: 7623.



MASS SPECTRUM
04/03/91 10:58:00 + 10:06
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 43 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 #758
CALI: A0403BK03 #3

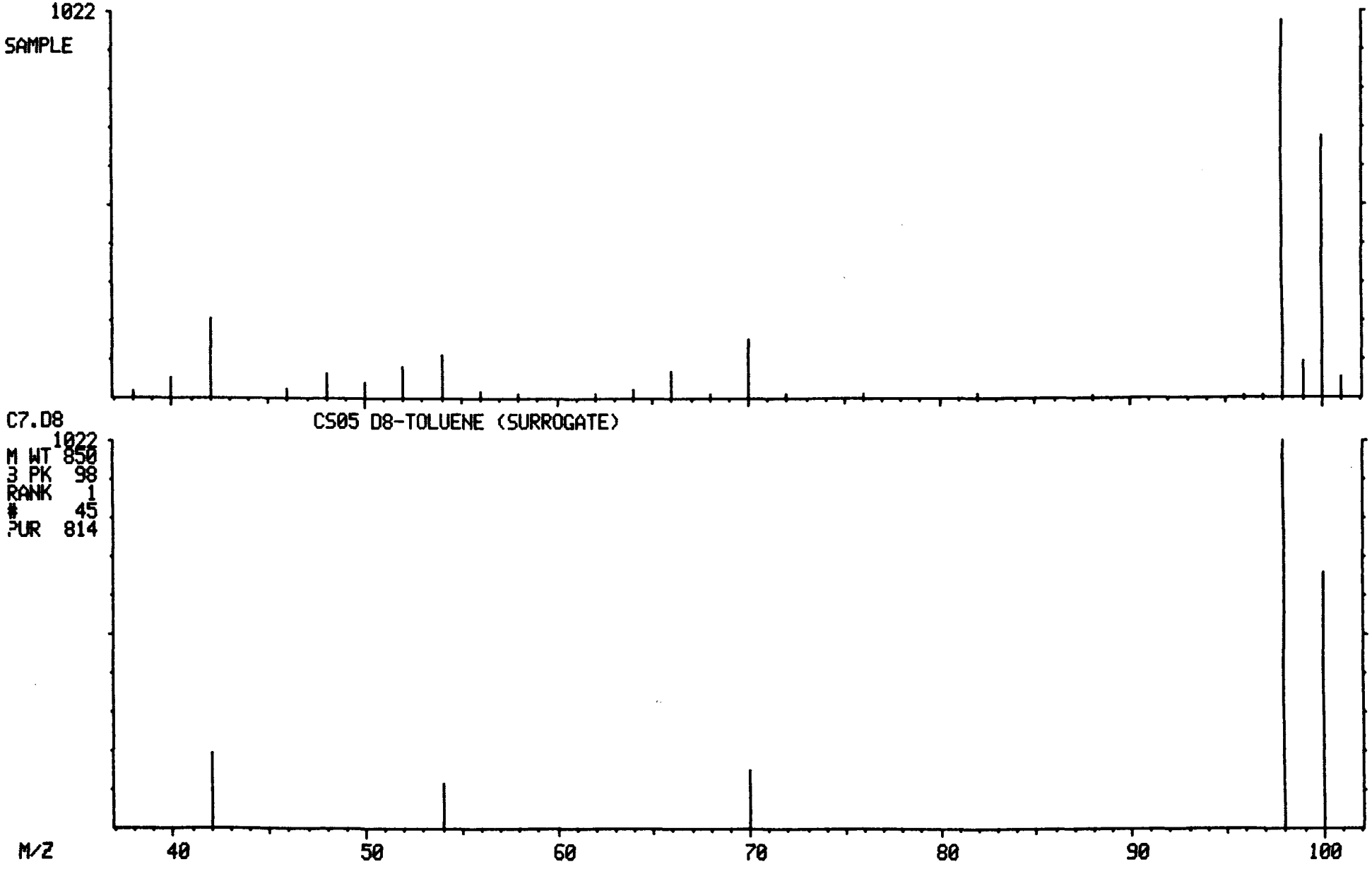
BASE M/Z: 98
RIC: 5504.



LIBRARY SEARCH
04/03/91 10:58:00 + 10:06
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 # 758
CALI: A0403BK03 # 3

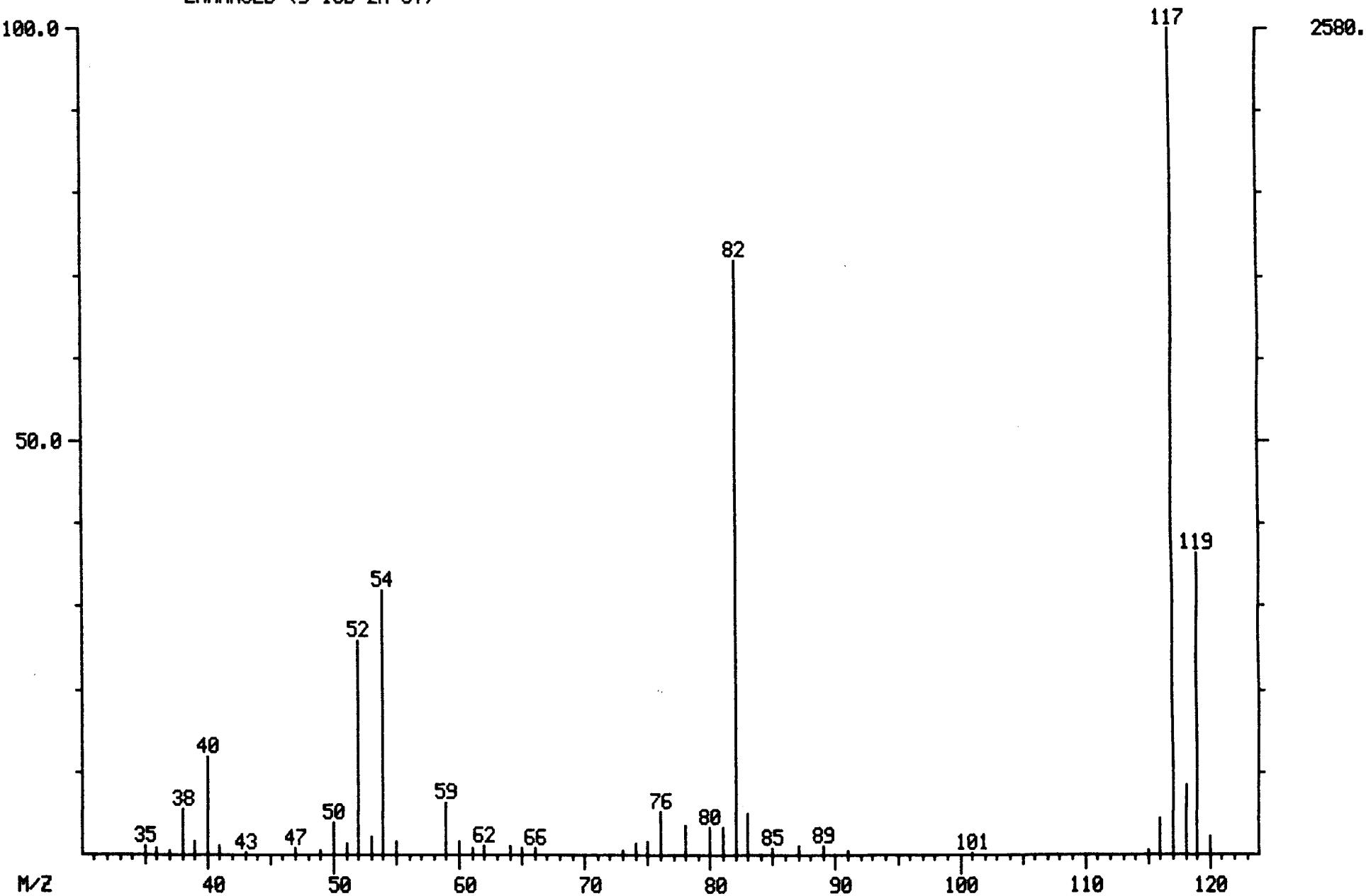
BASE M/Z: 98
RIC: 5391.



MASS SPECTRUM
04/03/91 10:58:00 + 16:35
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 #1244
CALI: A0403BK03 #3

BASE M/Z: 117
RIC: 9216.



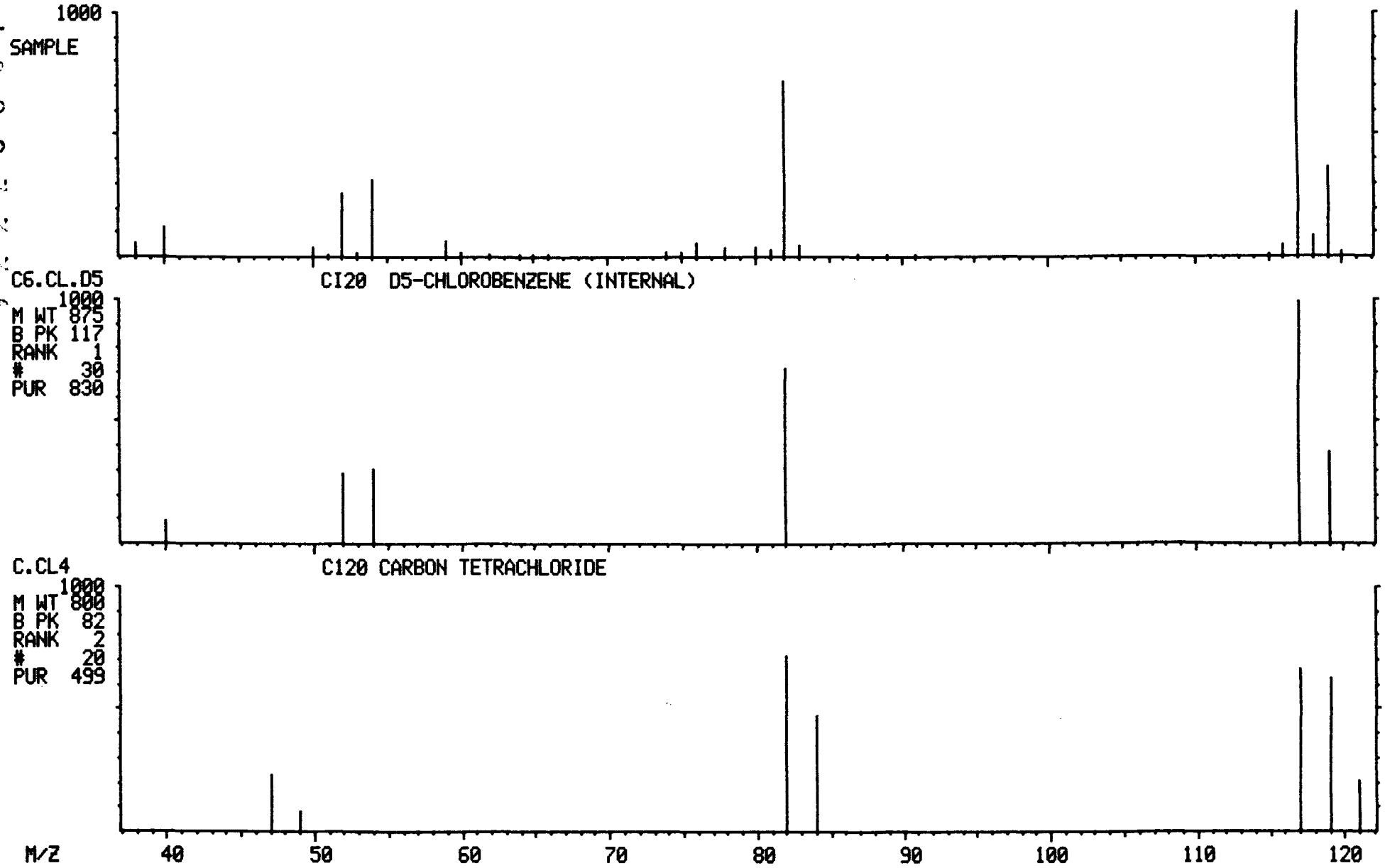
9322600141

000775

LIBRARY SEARCH
04/03/91 10:58:00 + 16:35
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 #1244
CALI: A0403BK03 # 3

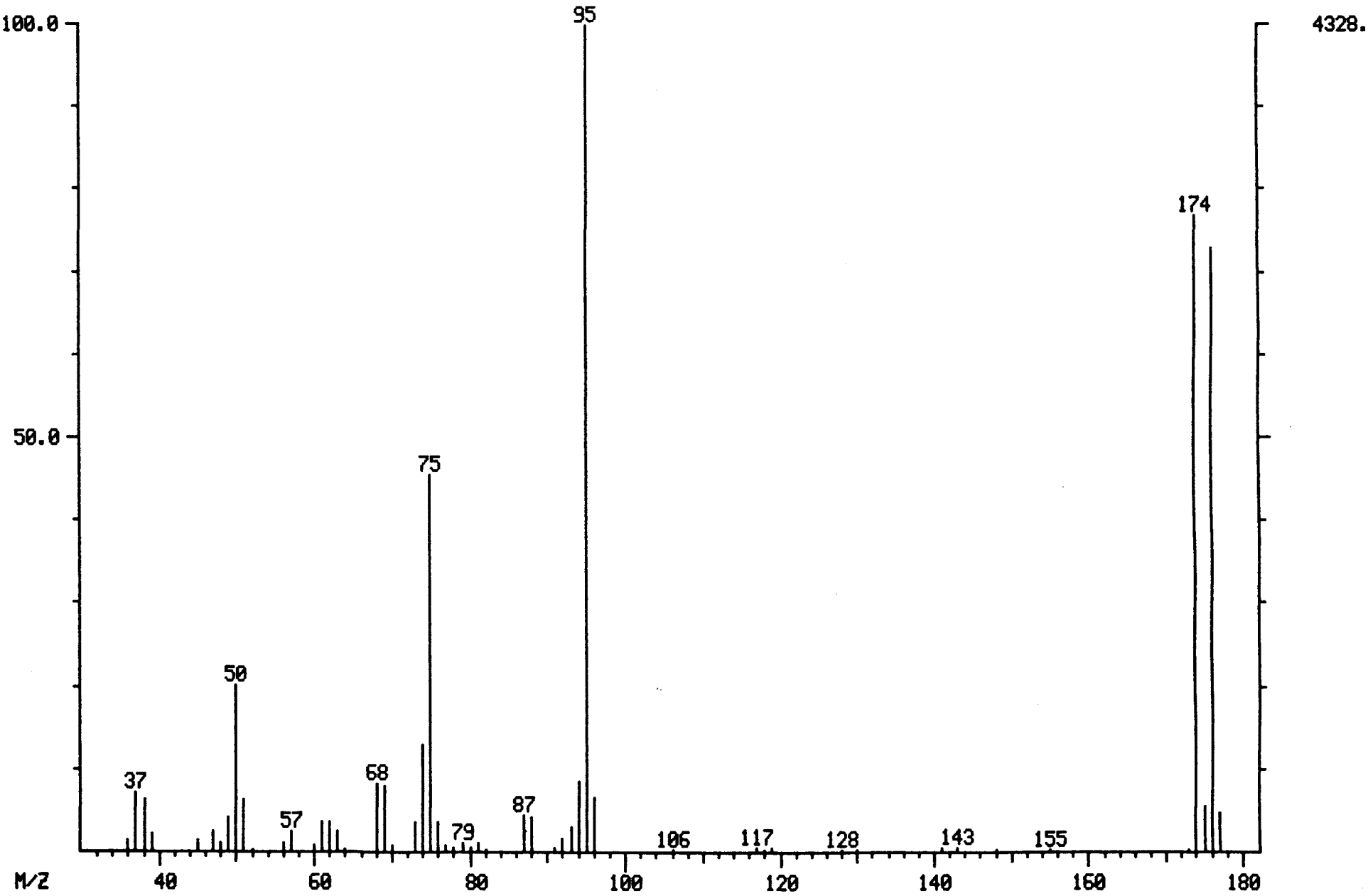
BASE M/Z: 117
RIC: 8927.



MASS SPECTRUM
04/03/91 10:58:00 + 21:11
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 #1589
CALI: A0403BK03 #3

BASE M/Z: 95
RIC: 19392.

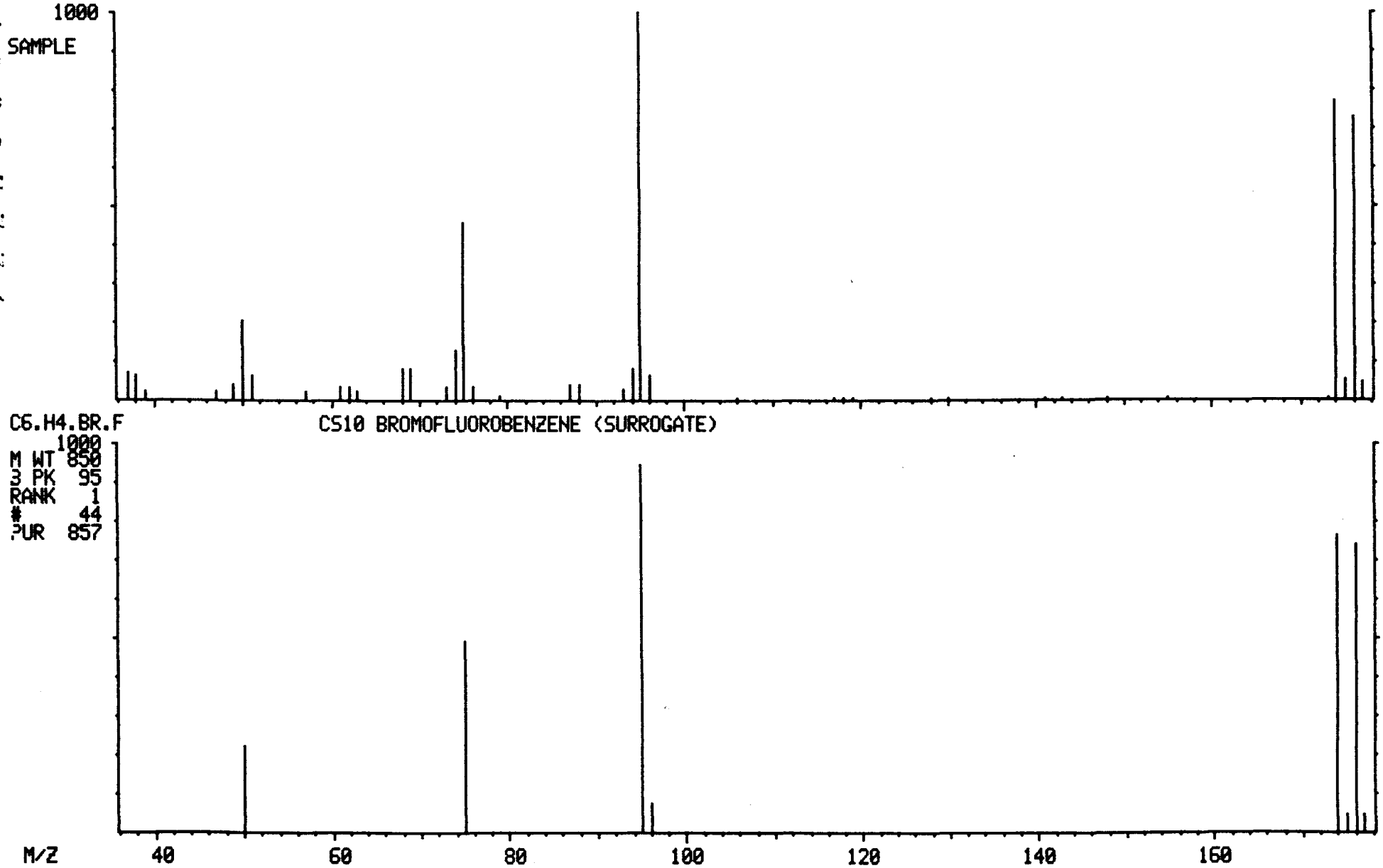


000777

LIBRARY SEARCH
04/03/91 10:58:00 + 21:11
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 #1589
CALI: A0403BK03 # 3

BASE M/Z: 95
RIC: 18847.

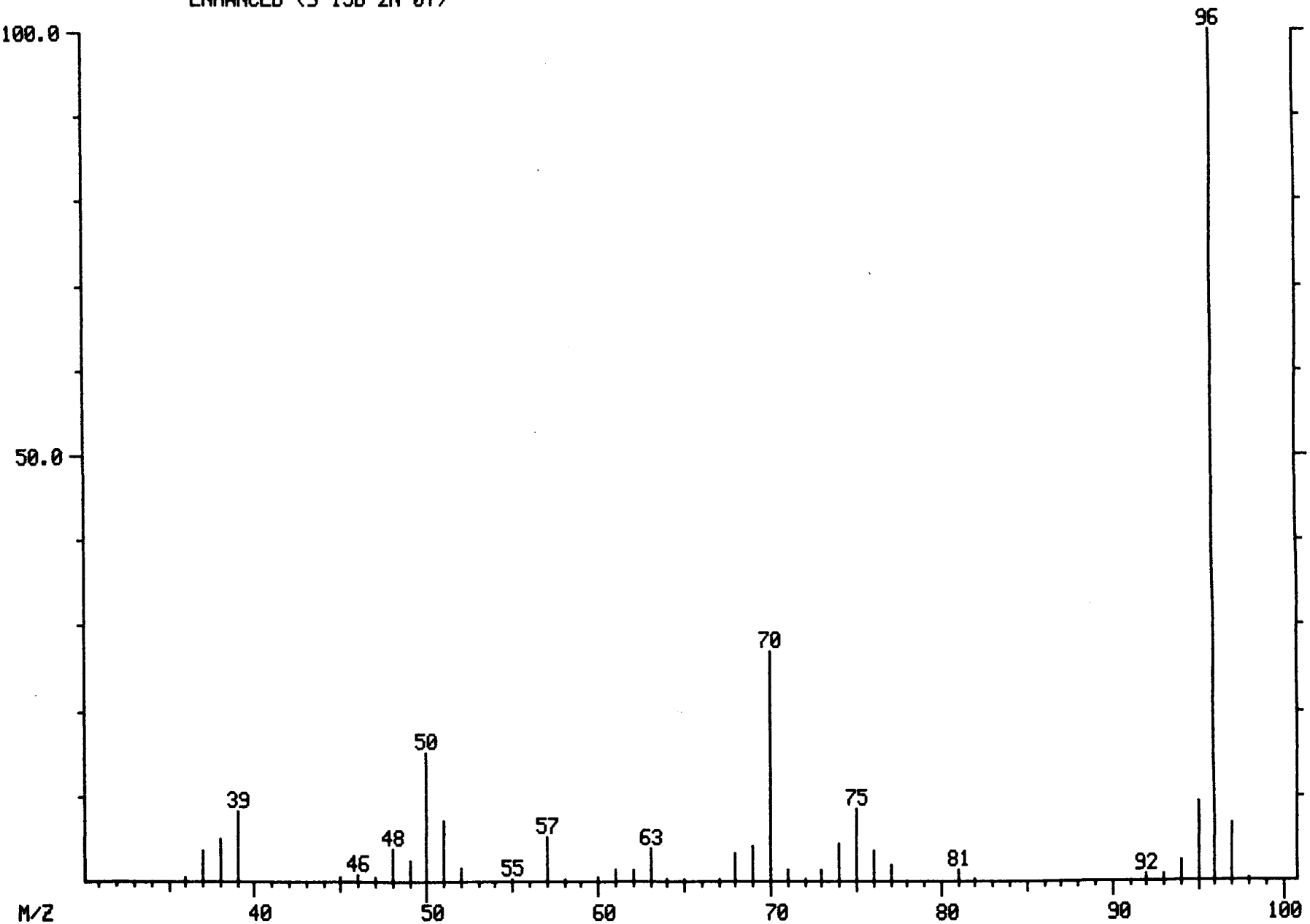


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/03/91 10:58:00 + 5:19
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 39 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 #399
CALI: A0403BK03 #3

BASE M/Z: 96
RIC: 11440.



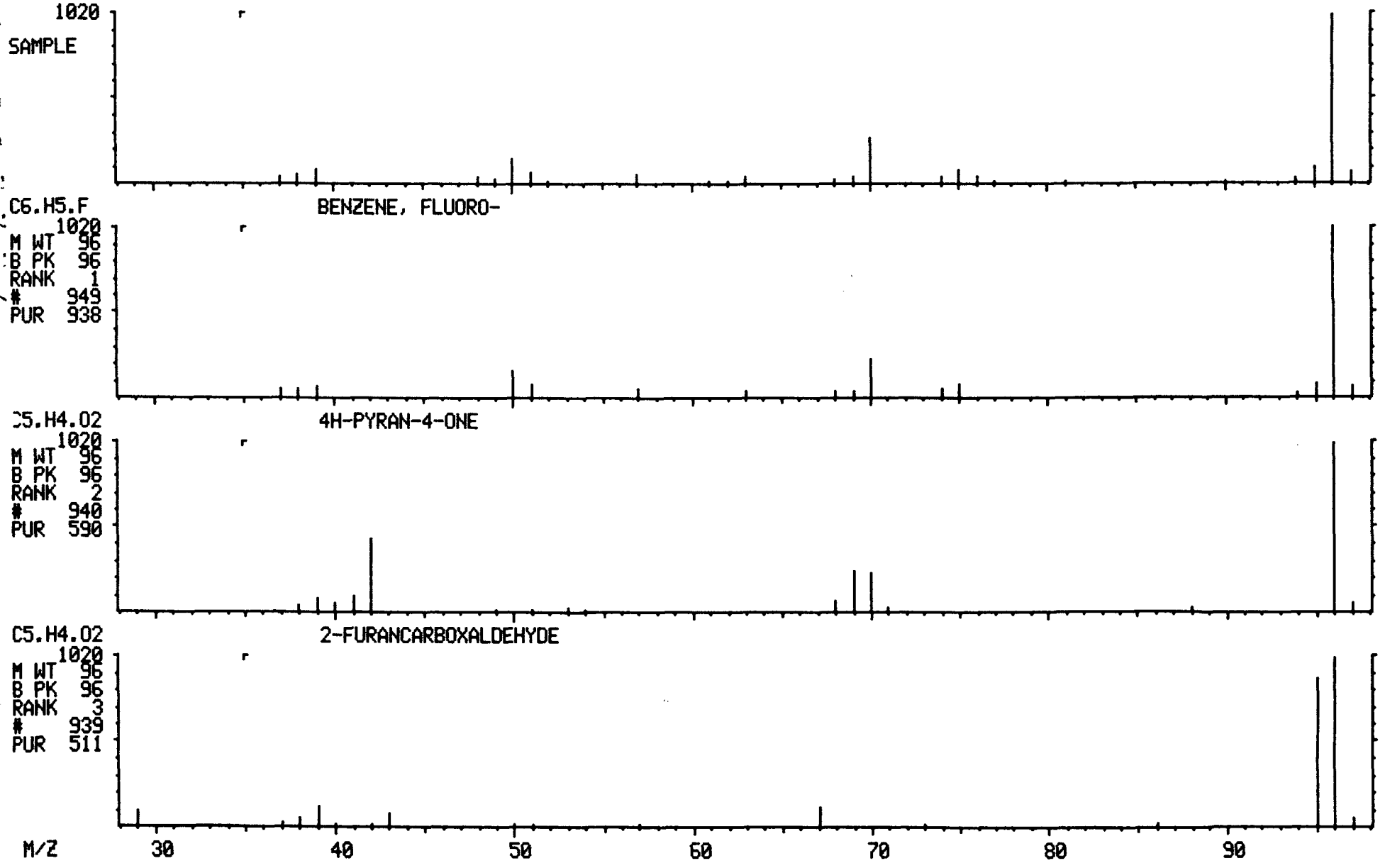
4728.

00720
9322260014 5

LIBRARY SEARCH
04/03/91 10:58:00 + 5:19
SAMPLE: WATER BLANK 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: A0403BK03 # 399
CALI: A0403BK03 # 3

BASE M/Z: 96
RIC: 10991.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKSL

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: 032991BLK

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0329LC03

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 03/29/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKSL

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: 032991BLK

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0329LC03

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 03/29/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

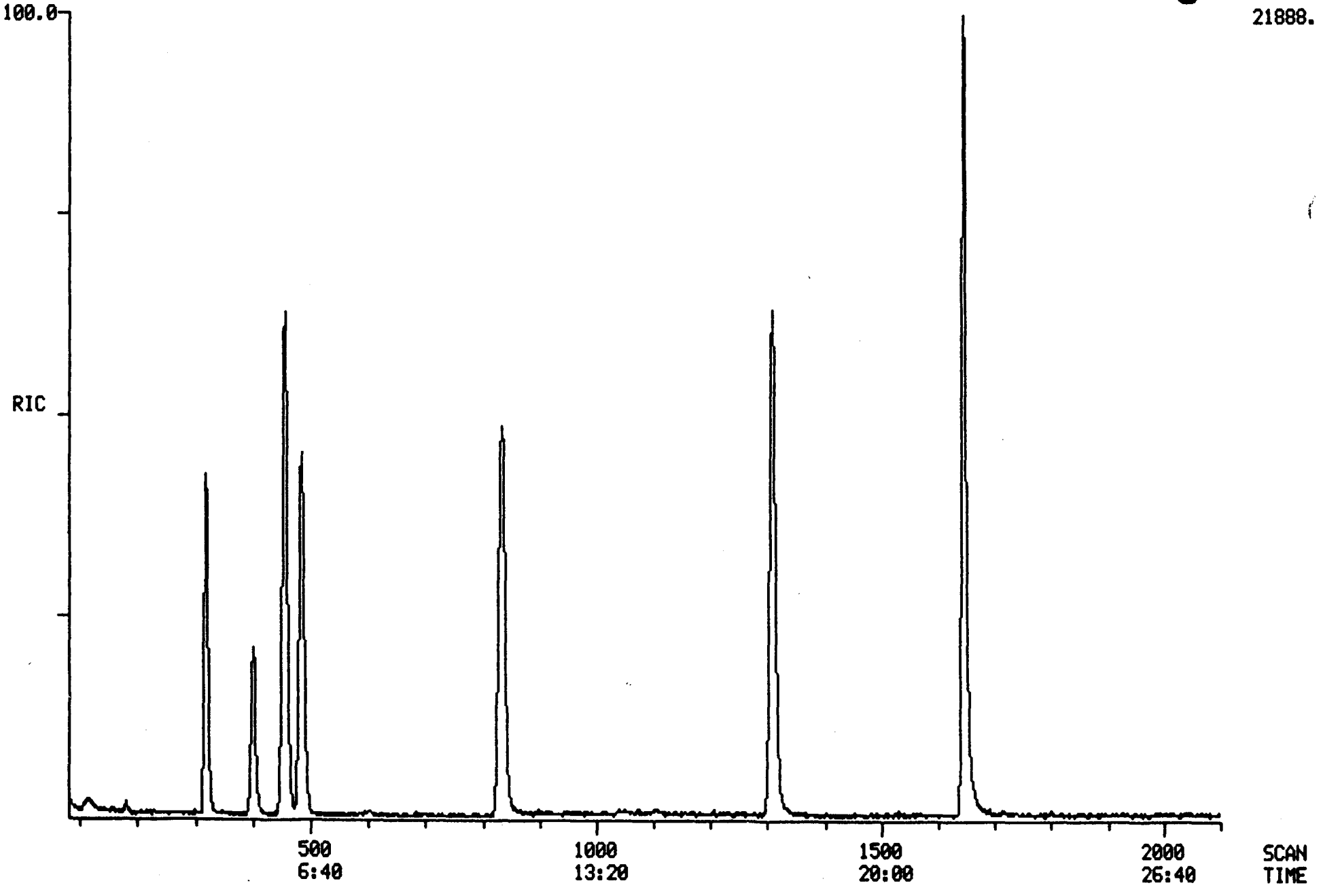
000783

VHLKSL

000784

RIC
03/29/91 10:55:00
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

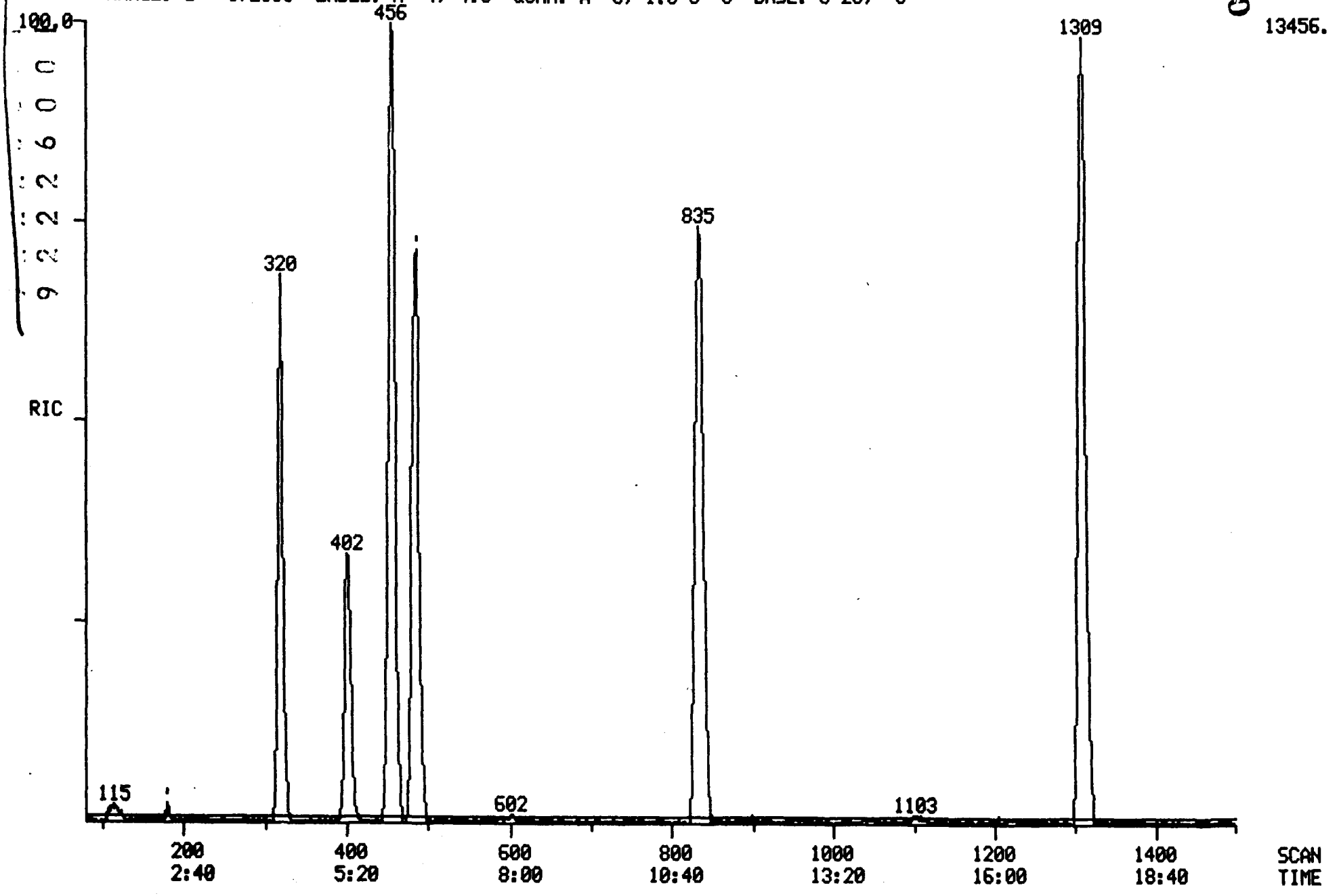
DATA: B0329LC03 #1 SCANS 80 TO 2100
CALI: B0329LC03 #3



TCA FINISHED, 9 FOUND
FINISHED AT: 3/29/91 16:24:50

RIC
03/29/91 10:55:00
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

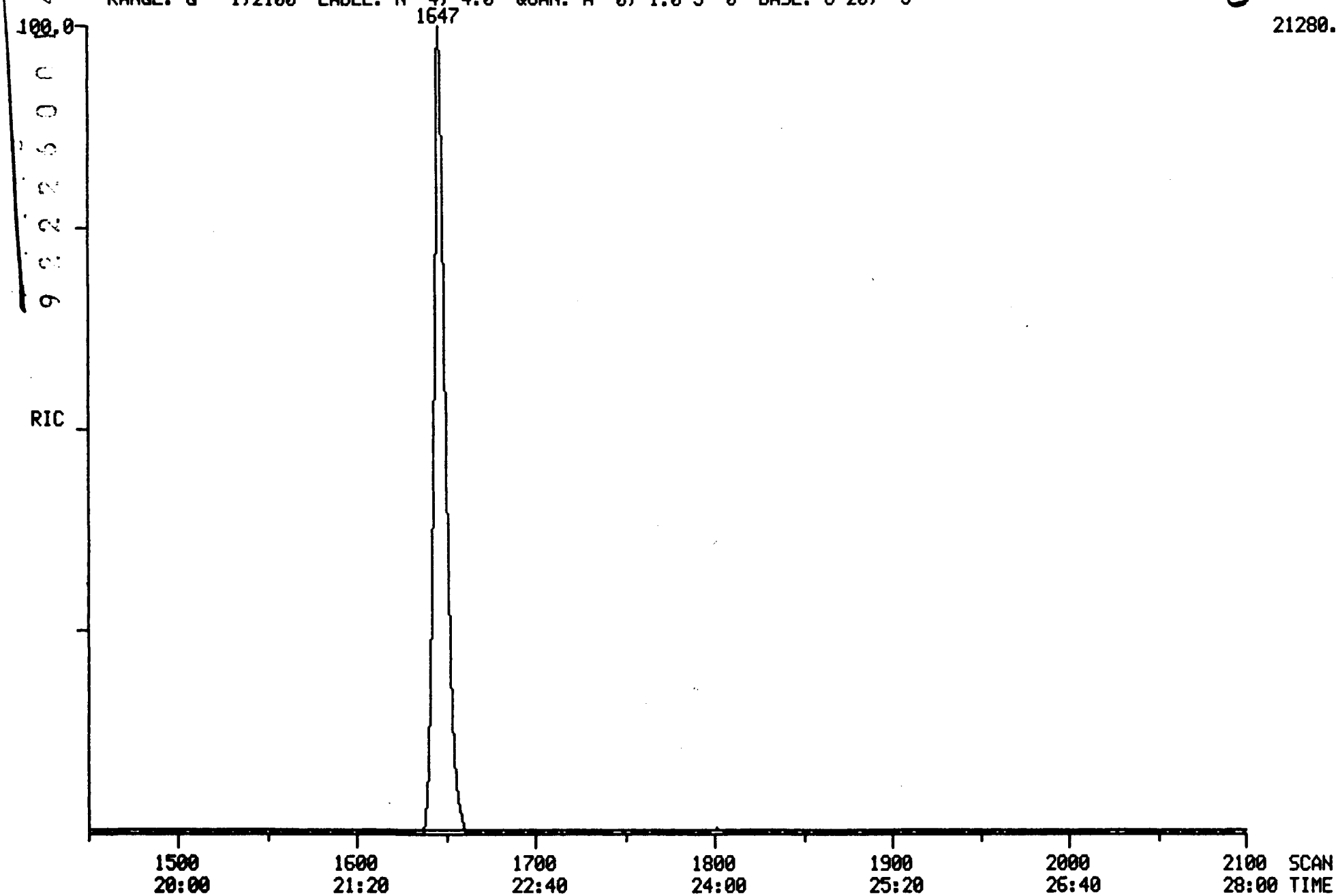
DATA: B0329LC03 #1 SCANS 80 TO 1500
CALI: B0329LC03 #3



RIC
03/29/91 10:55:00
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0329LC03 #1
CALI: B0329LC03 #3

SCANS 1450 TO 2100



3/29/91 10:56:15 SCAN 1 OF 2100
Acquisition started

Acquire
03/29/91 10:55:00 + 0:01
Sample: WATER BLANK, 5ML+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0329LC03
Free sectors: 3471
Instrument: 5100
Analyst: LC

Acquiring
Scan: 1 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 31 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	Time (minutes) total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10 Samp int (ms): 0.200 Peak width: 1000.
Frag S/P: 10 Actual: 10 Samp int (ms): 0.200 Inten/ion: 2

Min peak width: 3 Min frag width %: 80 Min area: 50
ADC threshold: 2 Baseline: 0

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

000787

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

3/29/91 11:24:18
Acquisition completed

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	778	3.4	622.4	0.5	7765.	10.	12.

000788

PROCEDURE: TCA DIAGNOSTIC REPORT 3/29/91 16:21:32
DATA FILE: B0329LC03
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 10 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	3	95	CLSRT1/CLSTC1
1	1	1	0	13	2	1	0	CLSRT2/CLSTC2
1	1	1	0	16	4	4	281	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 9 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	306	320	320	.	1	977	.	128	320	.	1
2	CS	2	-100	99	.	.	.	.	.	50	.	.	.
3	CS	3	-110	109	.	.	.	.	.	94	.	.	.
4	CS	4	-103	102	.	.	.	.	.	62	.	.	.
5	CS	5	-113	113	.	.	.	.	.	64	.	.	.
6	CS	6	176	180	181	1	1	899	.	84	181	.	1
7	CS	7	154	157	156	-1	3	795	.	43	157	1	1
8	CS	8	-155	158	.	.	.	.	.	76	160	.	1
9	CS	9	-144	146	.	.	.	.	.	96	.	.	.
10	CS	10	-225	233	.	.	.	.	.	63	.	.	.
11	CS	12	-320	335	.	.	.	.	.	83	.	.	.
12	CS	13	332	348	.	.	.	.	.	97	.	.	
13	CS	14	-119	119	.	.	.	.	.	101	118	.	1
14	CS	15	-193	199	.	.	.	.	.	96	.	.	.
15	CS	16	-280	292	.	.	.	.	.	96	.	.	.
16	CS	17	462	486	486	.	1	998	.	114	485	-1	1
17	CS	18	-395	415	.	.	.	.	.	62	.	.	.
18	CS	19	291	304	.	.	.	.	.	72	.	.	.
19	CS	20	-354	371	.	.	.	.	.	117	.	.	.
20	CS	21	-229	238	.	.	.	.	.	43	.	.	.
21	CS	22	-628	663	.	.	.	.	.	83	.	.	.
22	CS	23	-548	578	.	.	.	.	.	63	.	.	.
23	CS	24	-745	787	.	.	.	.	.	75	.	.	.
24	CS	25	499	525	.	.	.	.	.	130	.	.	.
25	CS	27	-387	406	.	.	.	.	.	78	.	.	.
26	CS	28	-733	774	.	.	.	.	.	106	.	.	.
27	CS	29	384	403	403	.	1	979	.	65	403	.	1
28	CS	43	-1513	1604	.	.	.	.	.	173	.	.	.
29	CS	30	1299	1309	1309	.	1	997	.	117	1309	.	1
30	CS	26	-1121	1135	.	.	.	.	.	129	.	.	.
31	CS	31	-1000	1016	.	.	.	.	.	97	.	.	.
32	CS	32	-946	963	.	.	.	.	.	75	.	.	.
33	CS	33	-1127	1141	.	.	.	.	.	43	1140	.	3
34	CS	34	-835	854	.	.	.	.	.	43	.	.	.
35	CS	35	-999	1015	.	.	.	.	.	164	.	.	.
36	CS	36	-1719	1723	1726	3	1	808	.	83	1726	.	1
37	CS	37	832	851	.	.	.	.	.	91	856	.	1
38	CS	38	-1308	1319	.	.	.	.	.	112	.	.	.
39	CS	39	-1359	1369	.	.	.	.	.	106	.	.	.
40	CS	40	-1516	1524	.	.	.	.	.	104	.	.	.
41	CS	41	-1399	1409	.	.	.	.	.	106	.	.	.
42	CS	42	-1504	1512	.	.	.	.	.	106	.	.	.
43	CS	44	1644	1649	1647	-2	2	987	.	95	1647	.	1
44	CS	45	815	834	835	1	2	993	.	98	835	.	1

000789

Quantitation Report File: B0329LC03

Data: B0329LC03.TI
03/29/91 10:55:00
Sample: WATER BLANK, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	320	4:16	1	1.000	A BB	7717.	50.000 UG/G	11.15
2	NOT	FOUND							
3	NOT	FOUND							
4	NOT	FOUND							
5	NOT	FOUND							
6	84	181	2:25	1	0.566	A BB	217.	~~0.947~~ UG/G	0.21
7	43	157	2:06	1	0.491	A BB	141.	~~1.469~~ UG/G	0.33
8	76	160	2:08	1	0.500	A BB	25.	~~0.032~~ UG/G	0.01
9	NOT	FOUND							
10	NOT	FOUND							
11	NOT	FOUND							
12	NOT	FOUND							
13	101	118	1:34	1	0.369	A BB	22.	~~0.144~~ UG/G	0.03
14	NOT	FOUND							
15	NOT	FOUND							
16	114	485	6:28	16	1.000	A BB	37984.	50.000 UG/G	11.15
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	NOT	FOUND							
26	NOT	FOUND							
27	65	403	5:22	16	0.831	A BB	11210.	97.196 %	21.67
28	NOT	FOUND							
29	117	1309	17:27	29	1.000	A BB	43255.	50.000 UG/G	11.15
30	NOT	FOUND							
31	NOT	FOUND							
32	NOT	FOUND							
33	43	1140	15:12	29	0.871	A*BV	143.	~~0.350~~ UG/G	0.08
34	NOT	FOUND							
35	NOT	FOUND							
36	83	1726	23:01	29	1.319	A BB	39.	~~0.061~~ UG/G	0.01
37	91	856	11:25	29	0.654	A BB	21.	~~0.024 UG/G~~	0.01
38	NOT	FOUND							
39	NOT	FOUND							
40	NOT	FOUND							
41	NOT	FOUND							
42	NOT	FOUND							
43	95	1647	21:58	29	1.258	A BB	42788.	95.512 %	21.30
44	98	835	11:08	29	0.638	A BB	44650.	102.960 %	22.96

Quantitation Report File: B0329LC03A

Data: B0329LC03.TI
03/29/91 10:55:00
Sample: WATER BLANK, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

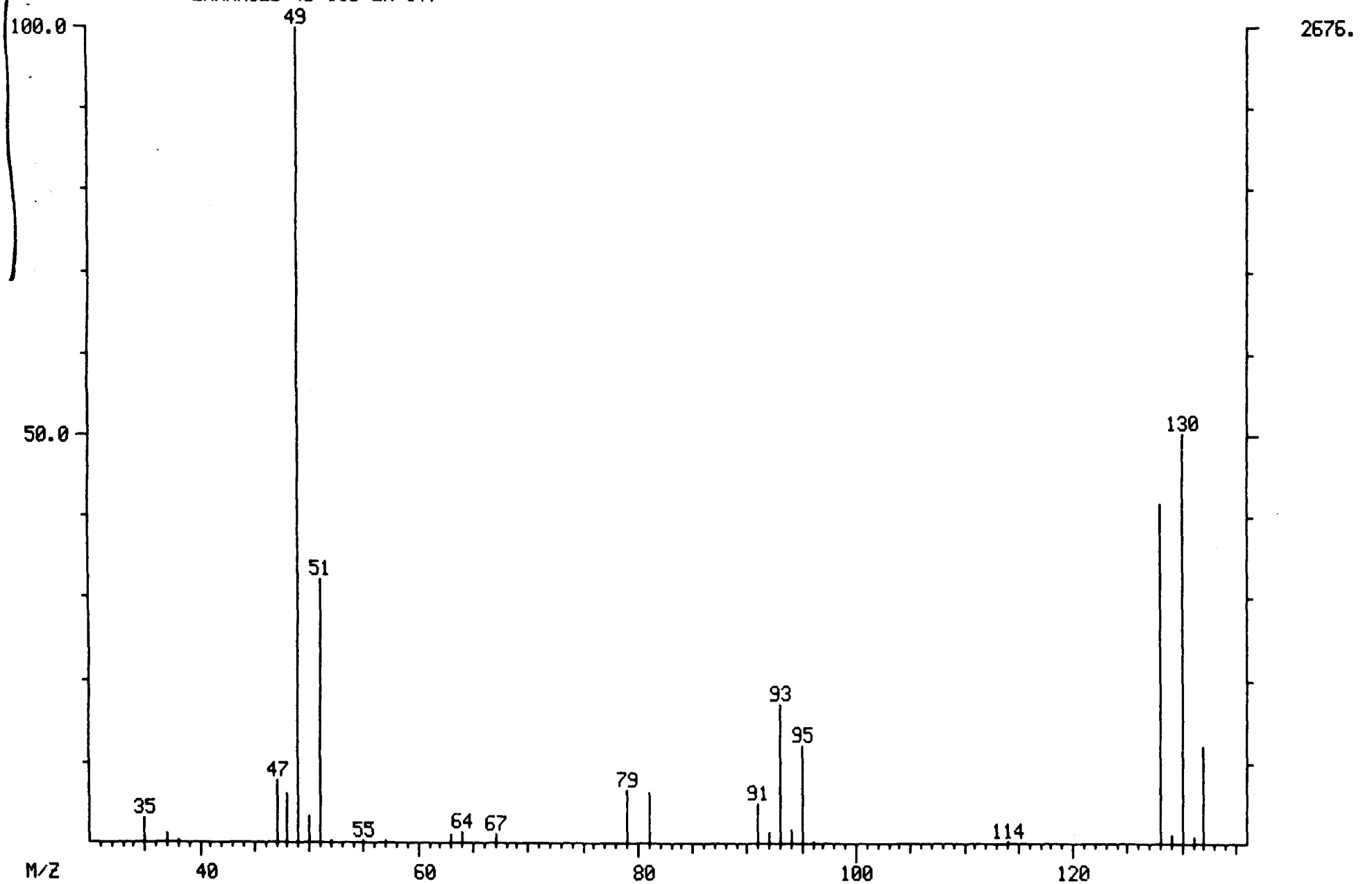
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	456	6:05	1	1.000	A BB	125809.	66.200	*100.

TARGET COMPOUND SPECTA

MASS SPECTRUM
03/29/91 10:55:00 + 4:16
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 #320
CALI: B0329LC03 #3

BASE M/Z: 49
RIC: 8464.



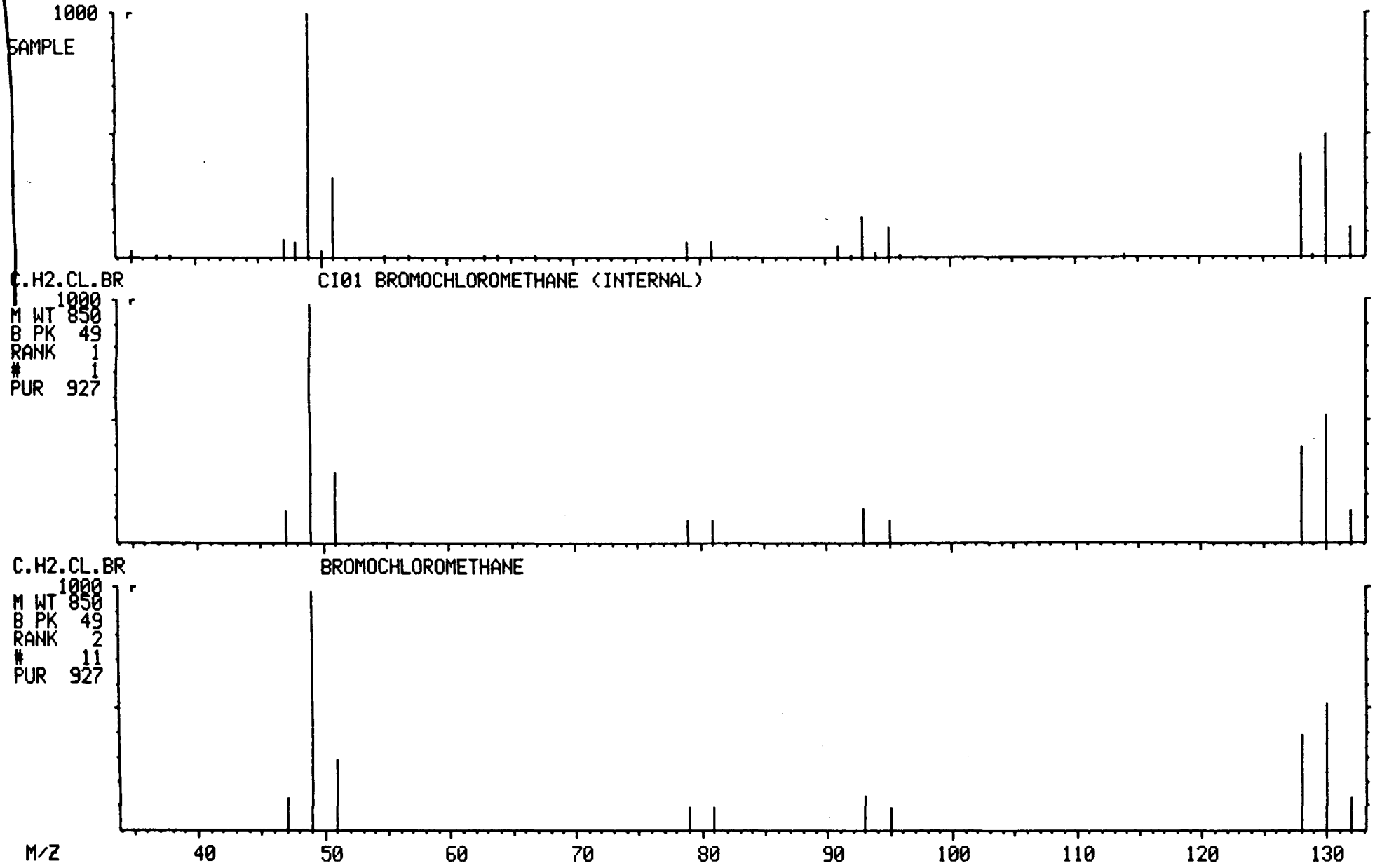
00375

LIBRARY SEARCH
03/29/91 10:55:00 + 4:16
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 # 320
CALI: B0329LC03 # 3

BASE M/Z: 49
RIC: 8431.

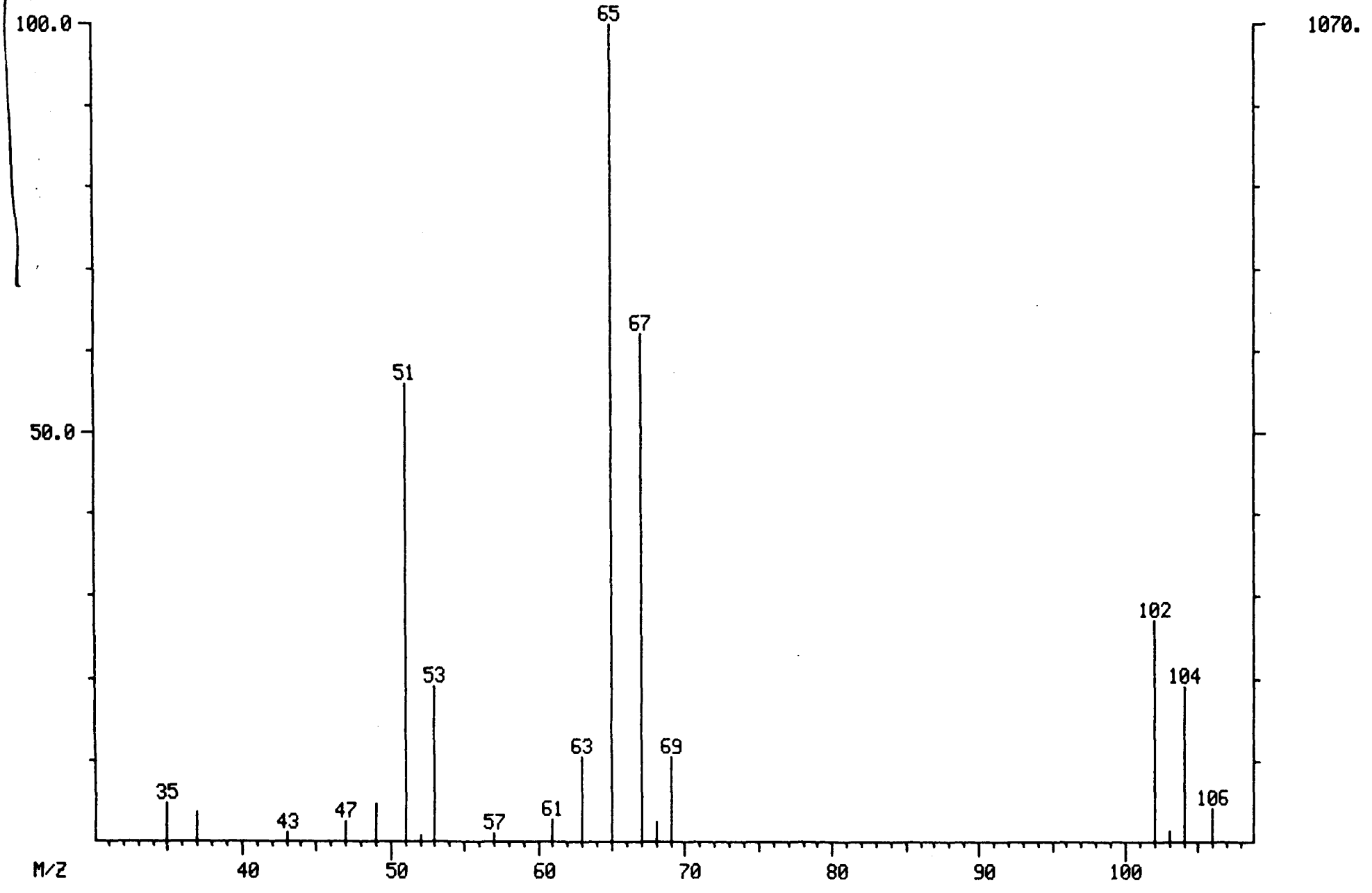
00275



MASS SPECTRUM
03/29/91 10:55:00 + 5:22
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 #403
CALI: B0329LC03 #3

BASE M/Z: 65
RIC: 3580.

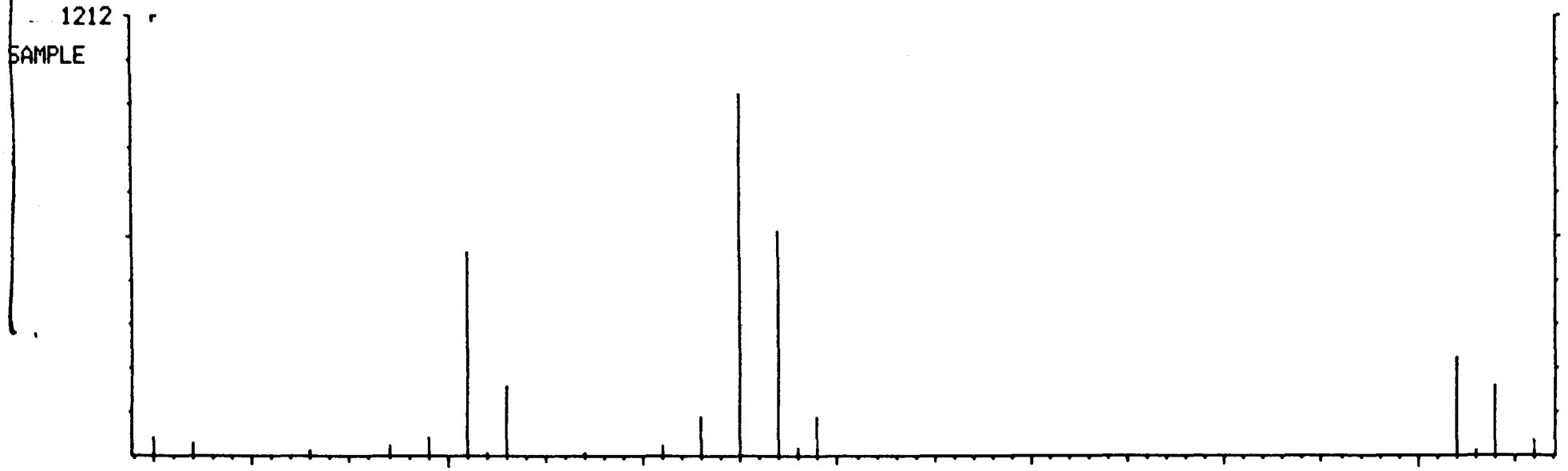


55260

LIBRARY SEARCH
03/29/91 10:55:00 + 5:22
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

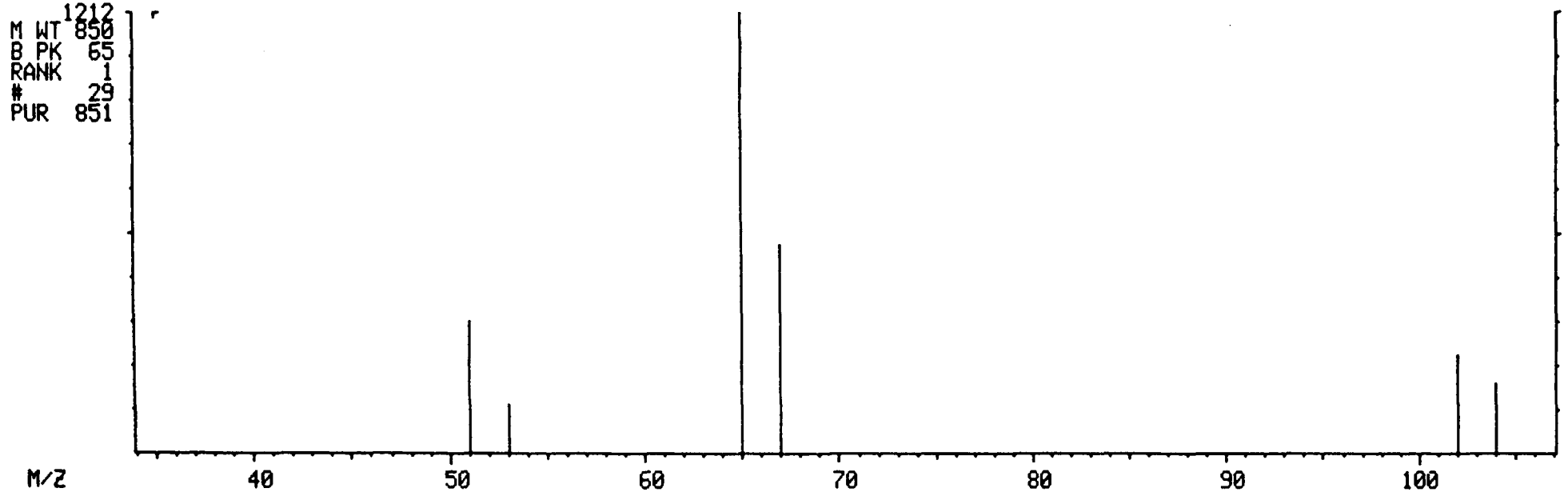
DATA: B0329LC03 # 403
CALI: B0329LC03 # 3

BASE M/Z: 65
RIC: 3579.



C2.CL2.D4 CS15 D4-1,2-DICHLOROETHANE (SURROGATE)

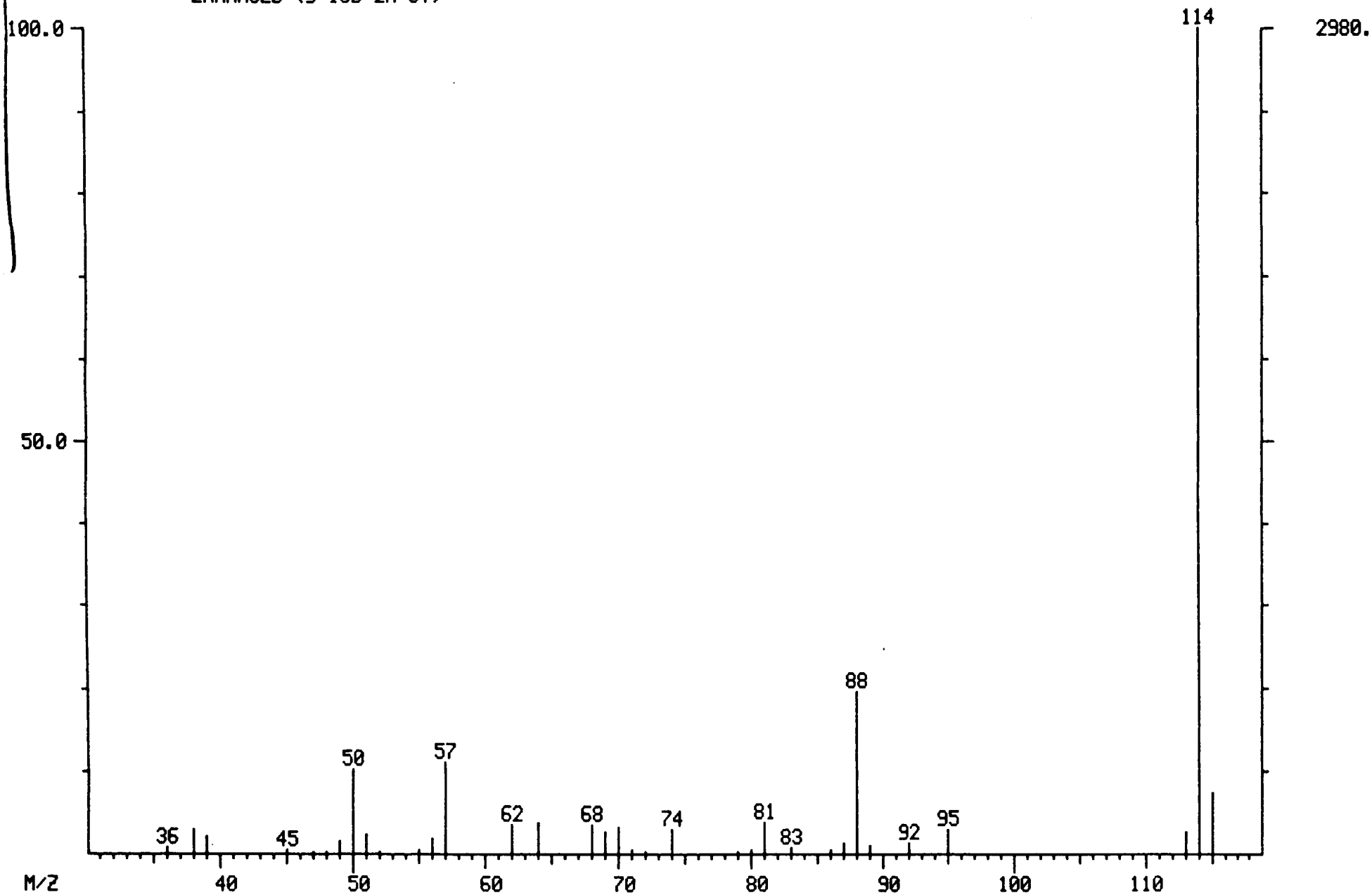
M WT 850
B PK 65
RANK 1
29
PUR 851



MASS SPECTRUM
03/29/91 10:55:00 + 6:28
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 #485
CALI: B0329LC03 #3

BASE M/Z: 114
RIC: 5952.

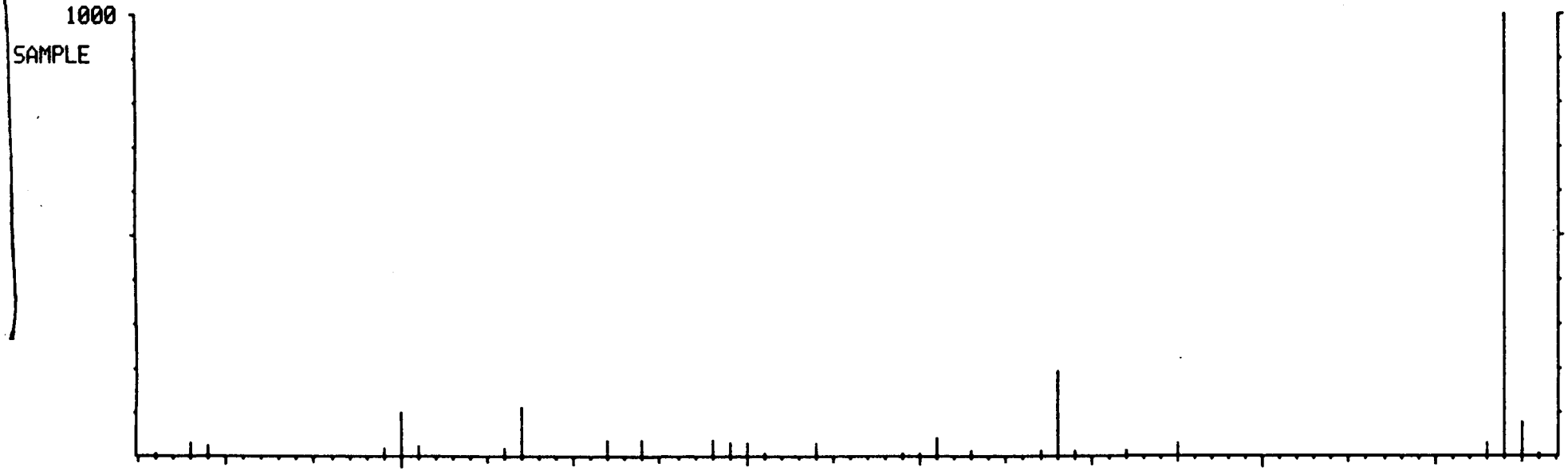


000758

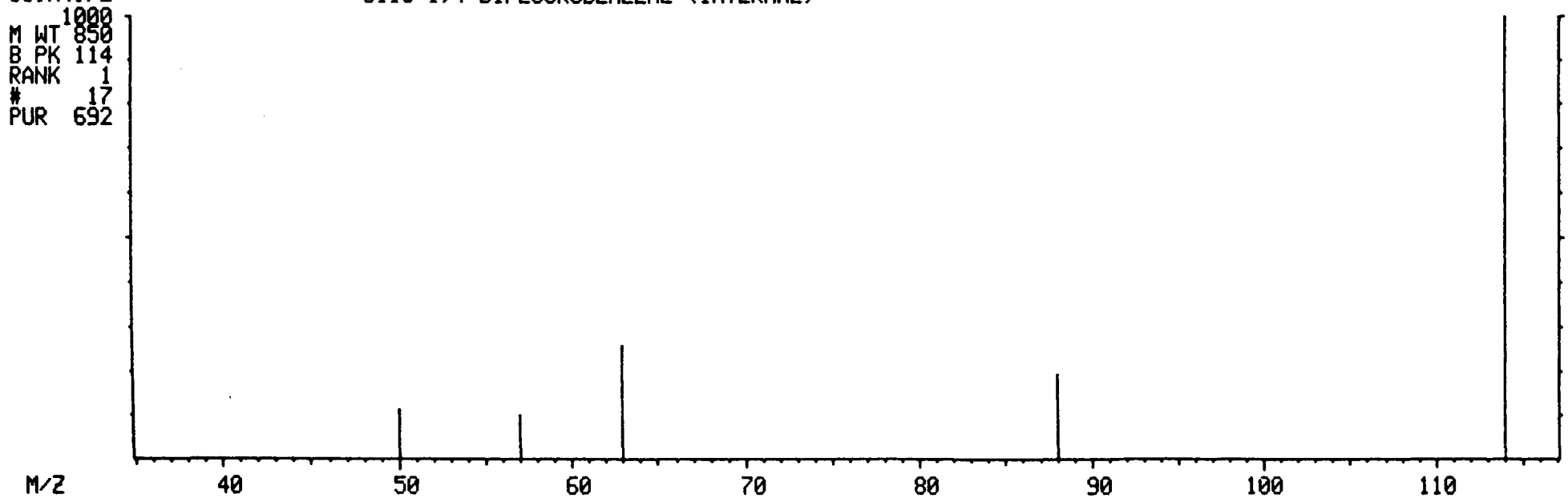
LIBRARY SEARCH
03/29/91 10:55:00 + 6:28
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 # 485
CALI: B0329LC03 # 3

BASE M/Z: 114
RIC: 5871.



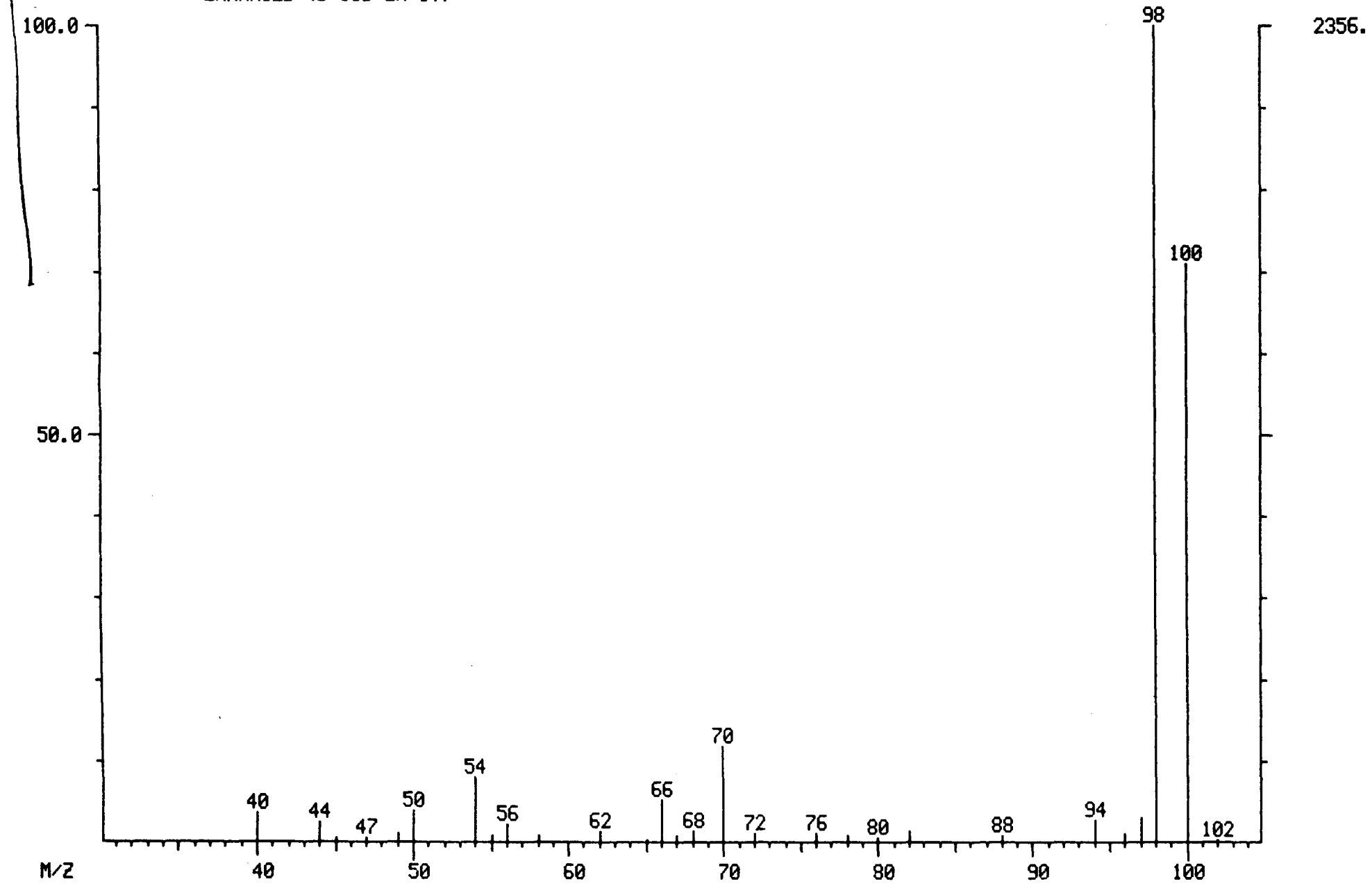
C6.H4.F2 CI10 1,4-DIFLUOROBENZENE (INTERNAL)



MASS SPECTRUM
03/29/91 10:55:00 + 11:08
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 #835
CALI: B0329LC03 #3

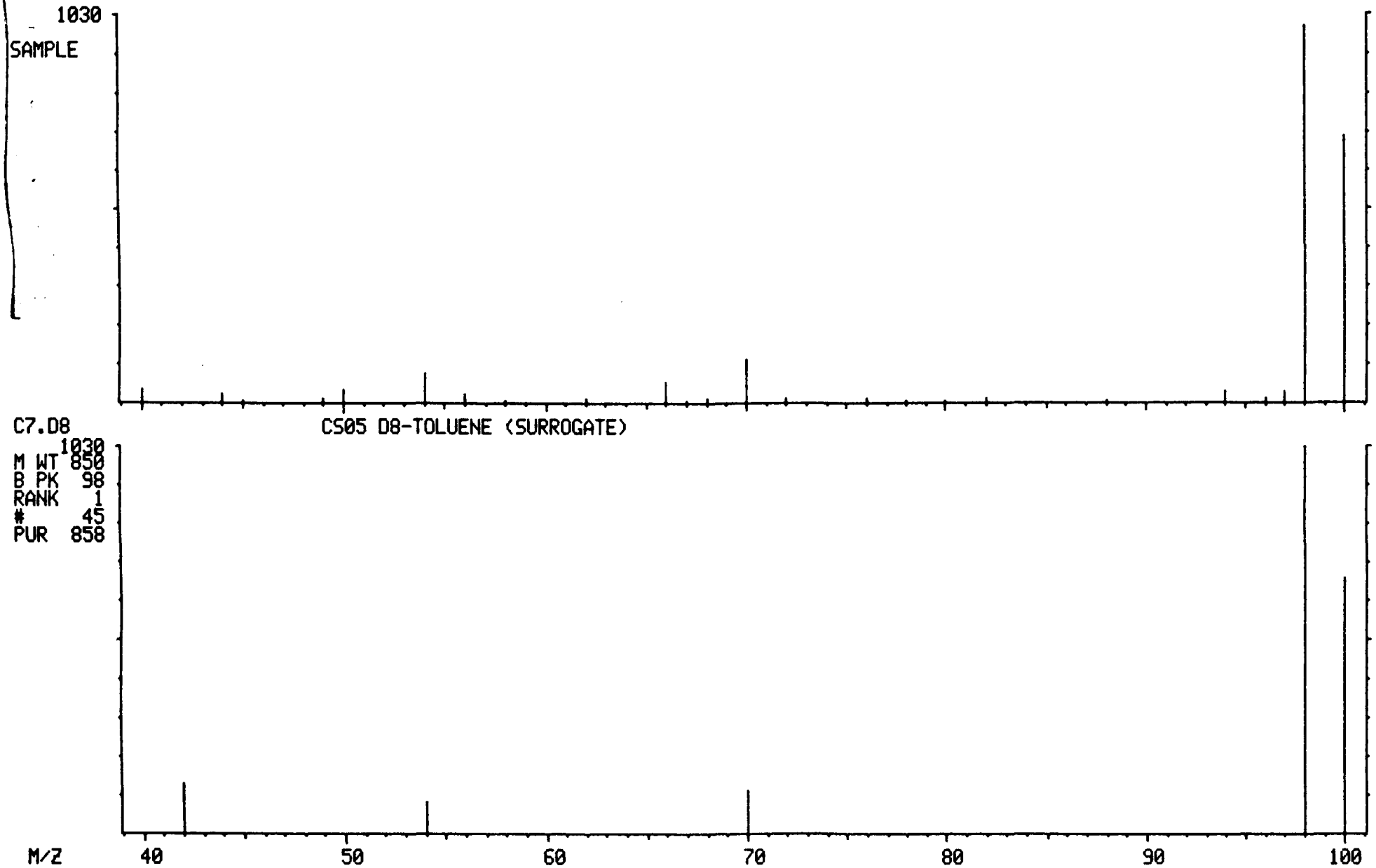
BASE M/Z: 98
RIC: 5384.



LIBRARY SEARCH
03/29/91 10:55:00 + 11:08
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 # 835
CALI: B0329LC03 # 3

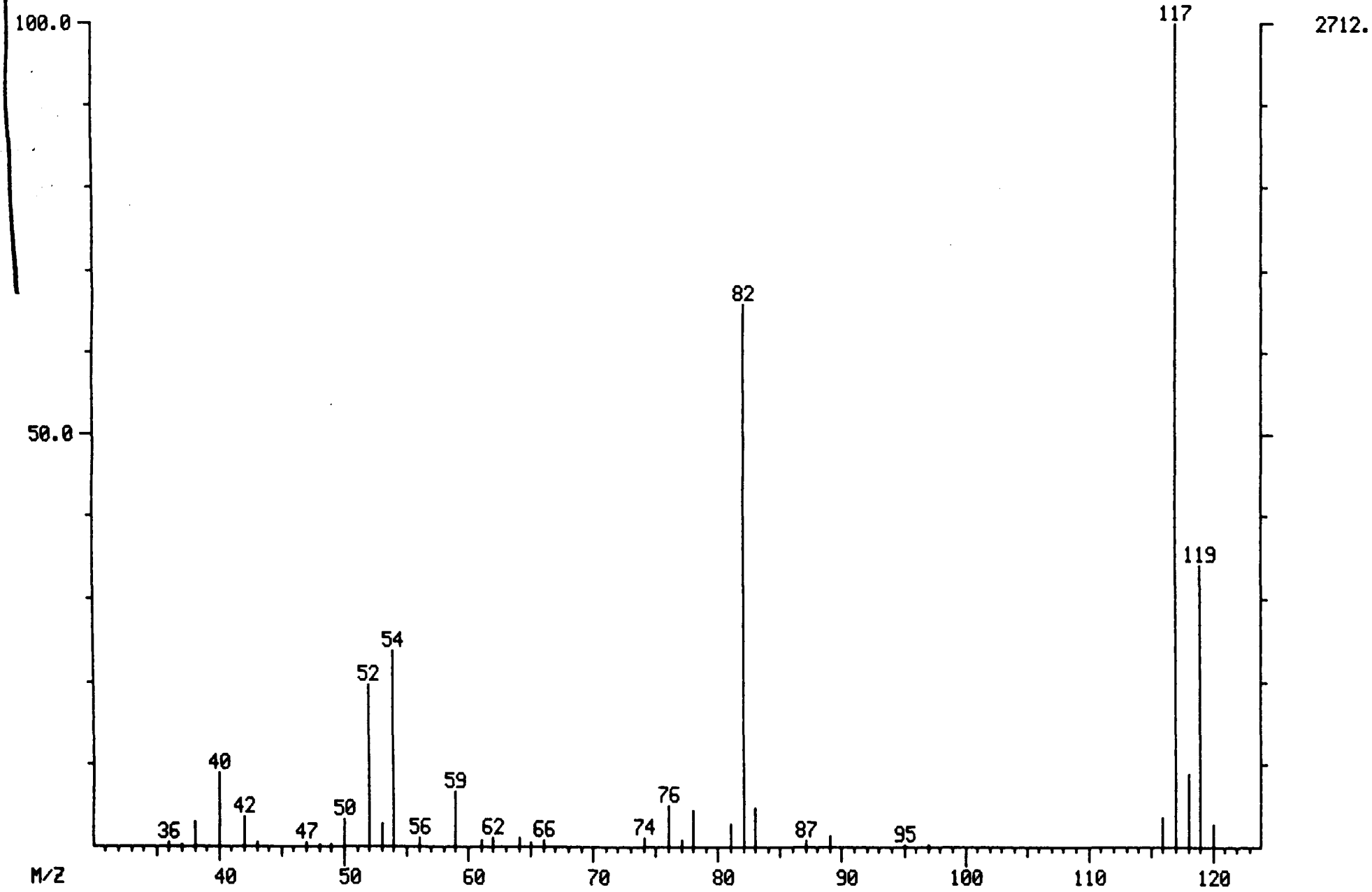
BASE M/Z: 98
RIC: 5343.



MASS SPECTRUM
03/29/91 10:55:00 + 17:27
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 #1309
CALI: B0329LC03 #3

BASE M/Z: 117
RIC: 8592.

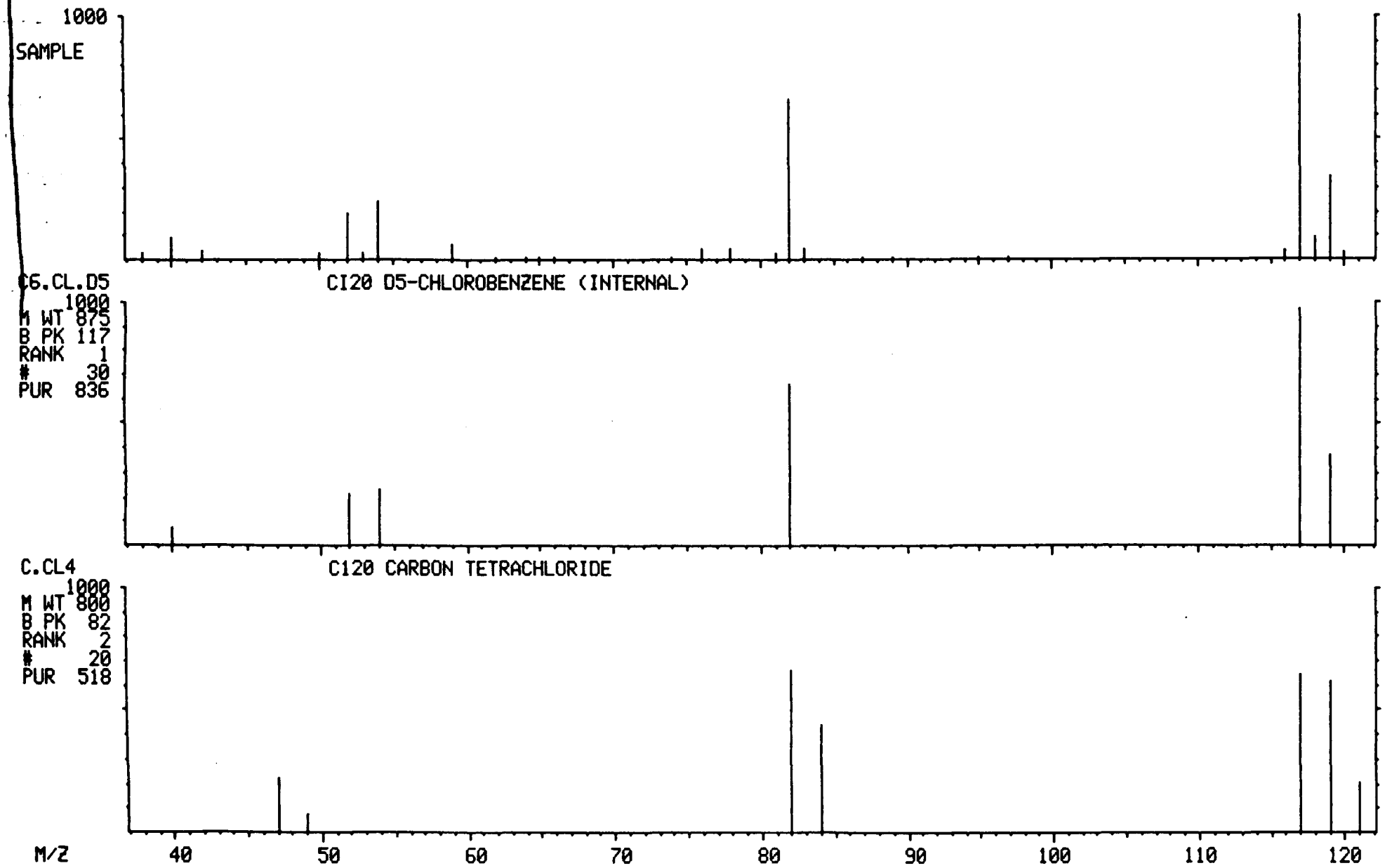


00802

LIBRARY SEARCH
03/29/91 10:55:00 + 17:27
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 #1309
CALI: B0329LC03 # 3

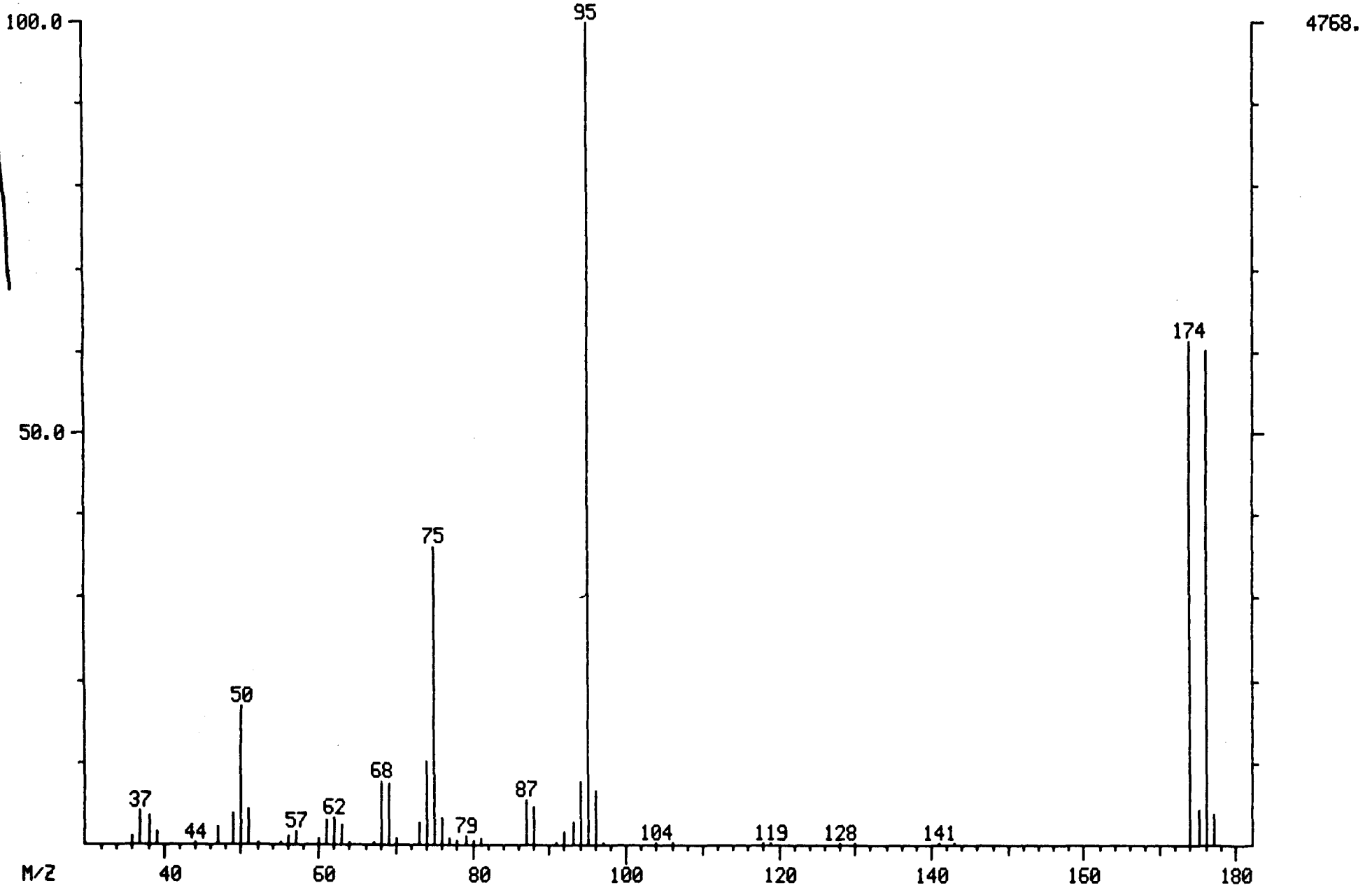
BASE M/Z: 117
RIC: 8463.



MASS SPECTRUM
03/29/91 10:55:00 + 21:58
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 #1647
CALI: B0329LC03 #3

BASE M/Z: 95
RIC: 18400.

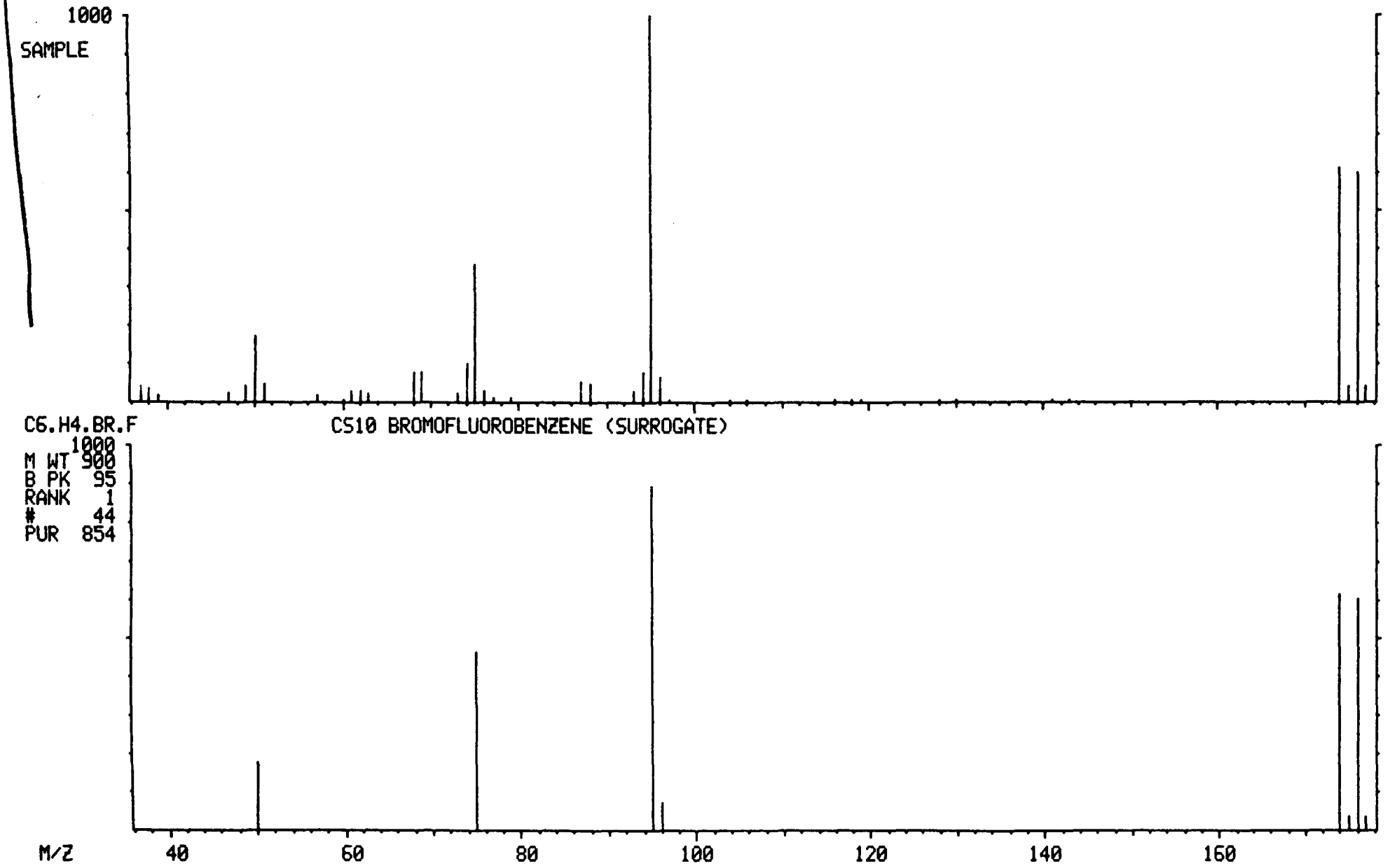


000604

LIBRARY SEARCH
03/29/91 10:55:00 + 21:58
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 #1647
CALI: B0329LC03 # 3

BASE M/Z: 95
RIC: 18015.

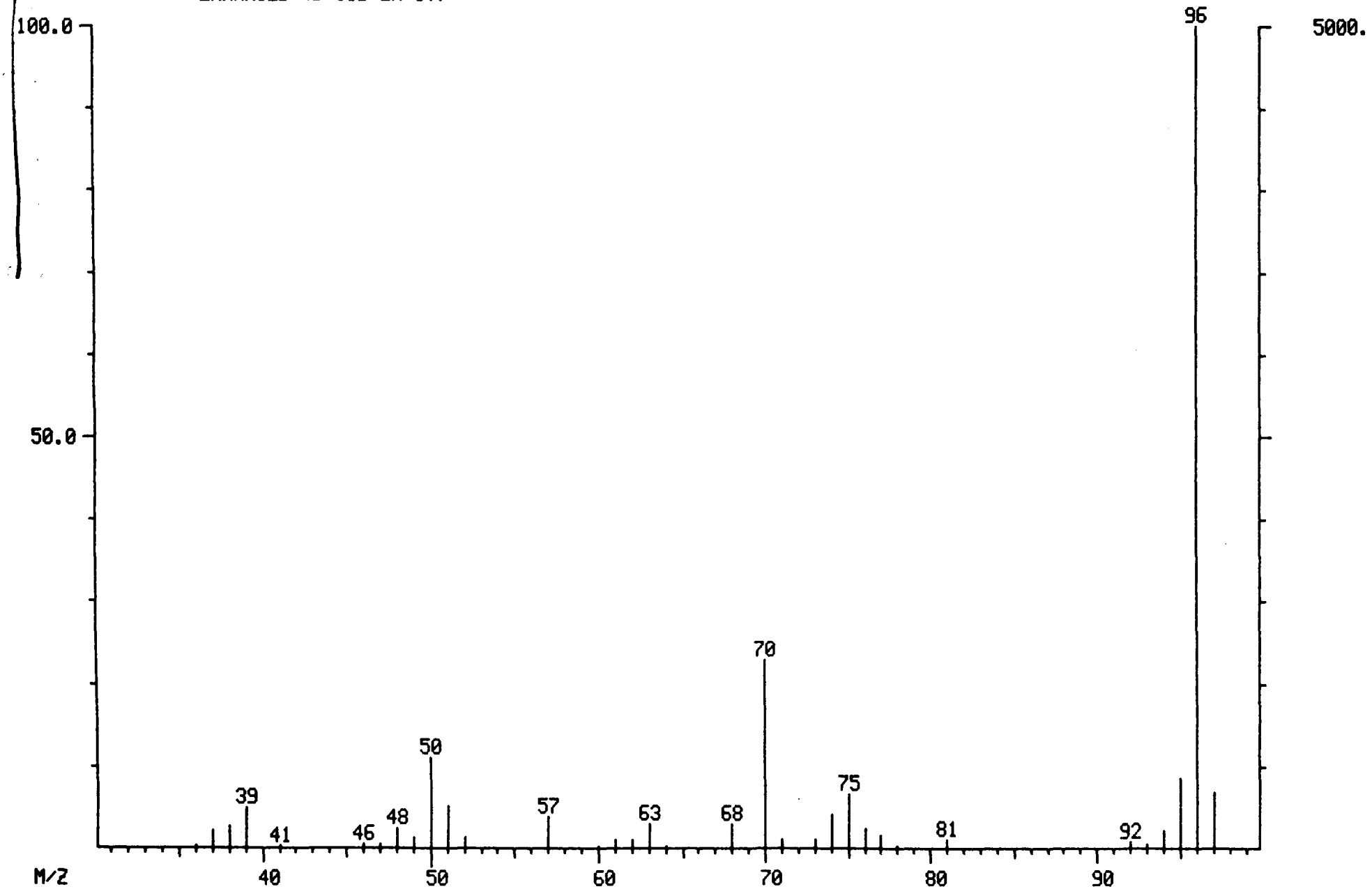


NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
03/29/91 10:55:00 + 6:05
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 #456
CALI: B0329LC03 #3

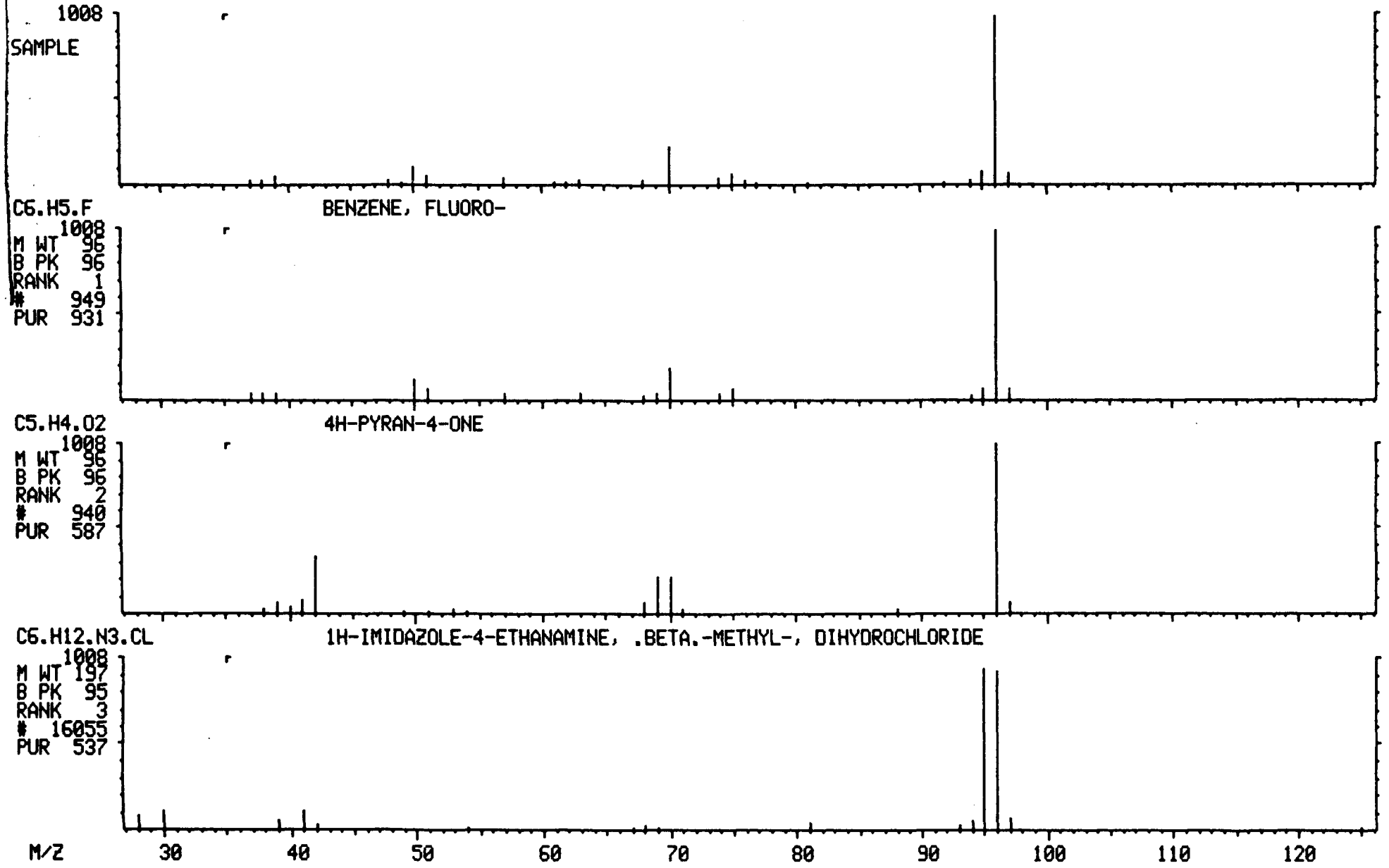
BASE M/Z: 96
RIC: 10336.



LIBRARY SEARCH
03/29/91 10:55:00 + 6:05
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0329LC03 # 456
CALI: B0329LC03 # 3

BASE M/Z: 96
RIC: 9983.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKSL

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: 040191BLK

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0401LC03

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 04/01/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKSL

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: 040191BLK

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0401LC03

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/01/91

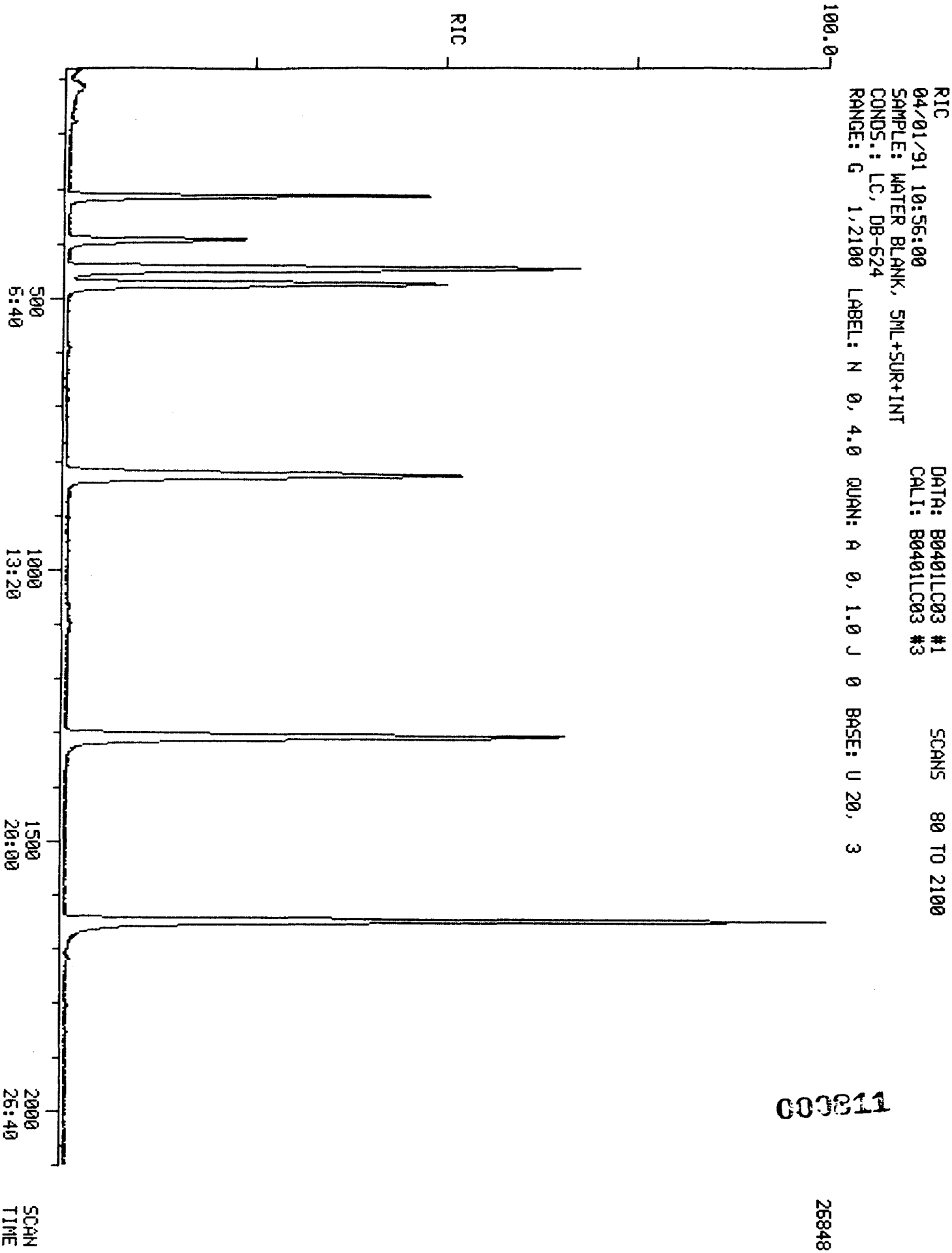
Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

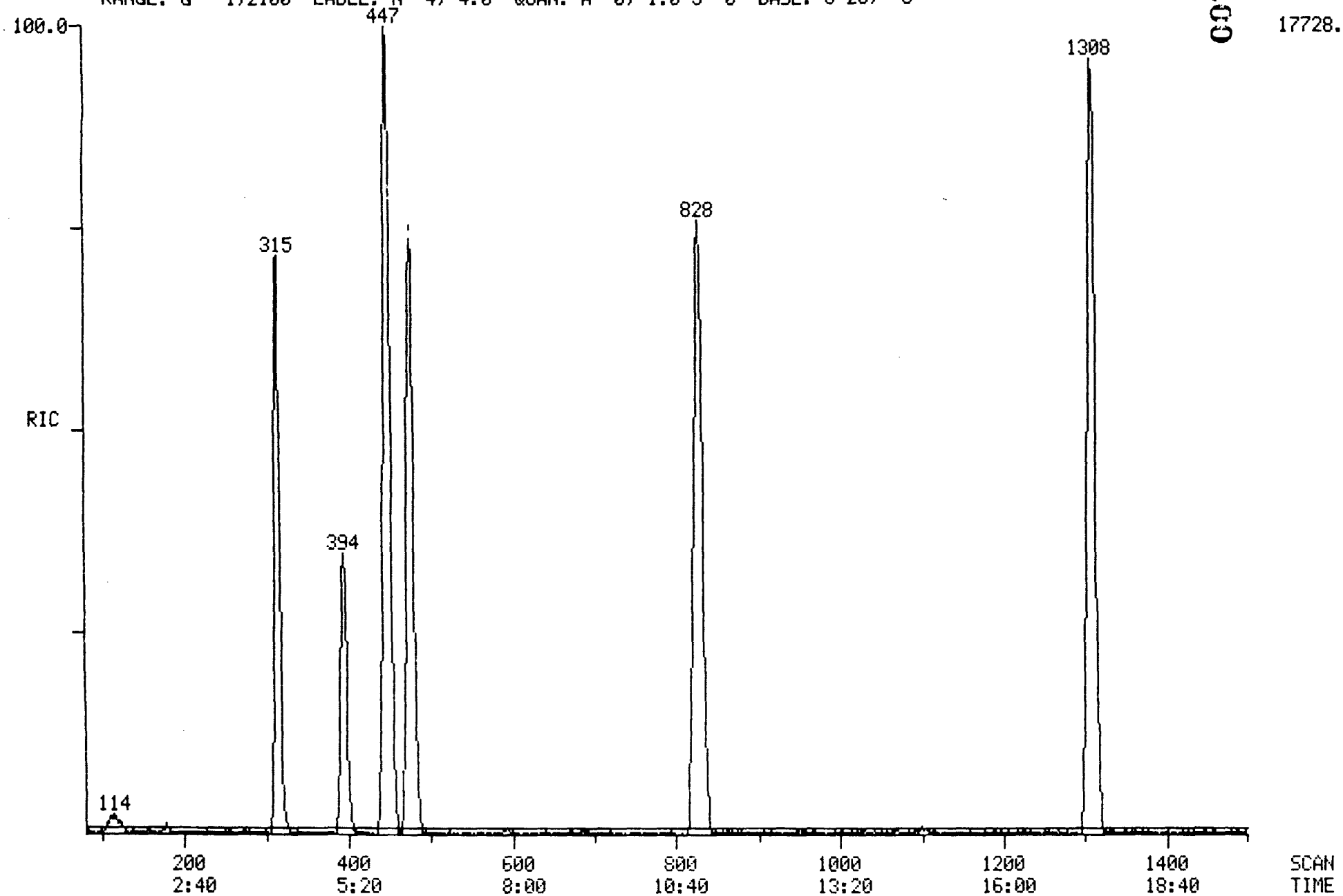
TCA FINISHED, 9 FOUND
FINISHED AT: 4/01/91 16:30:43



000811

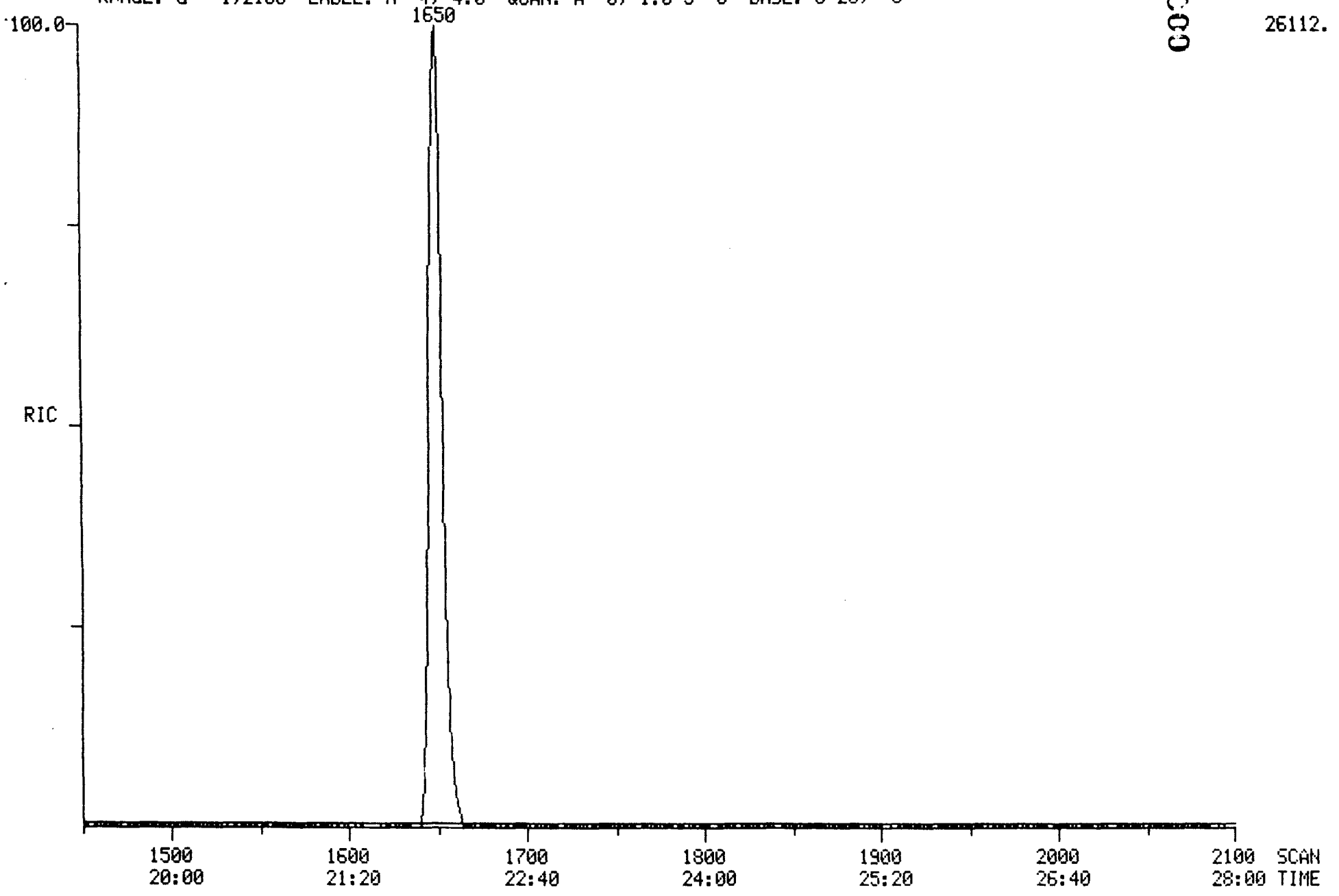
RIC
04/01/91 10:56:00
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0401LC03 #1 SCANS 80 TO 1500
CALI: B0401LC03 #3



RIC
04/01/91 10:56:00
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0401LC03 #1 SCANS 1450 TO 2100
CALI: B0401LC03 #3



C0C813

4/1/91 10:56:53 SCAN 1 OF 2100
Acquisition started

Acquire
04/01/91 10:56:00 + 0:01
Sample: WATER BLANK, 5ML+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0401LC03
Free sectors: 6411
Instrument: 5100
Analyst: LC

Acquiring
Scan: 1 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 31 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.200
Samp int (ms): 0.200

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1 2

4/1/91 11:24:54
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	8.0	1680.0	0.5	22865.	11.	14.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/01/91 11:47:13
DATA FILE: B0401LC03
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS -----				>< --- PLUS UNKNOWNS ---				>< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	2	14	CLSRT1/CLSTC1
1	1	2	0	13	2	1	0	CLSRT2/CLSTC2
1	1	1	0	16	3	2	28	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 8 FOUND

< COMPOUND		>< ---------- SEARCH ----------						>< SAT	>< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	-325	315	315	.	1	974	.	128	315	.	1
2	CS	2	-97	98	.	.	.	.	.	50	.	.	.
3	CS	3	-108	108	.	.	.	.	.	94	.	.	.
4	CS	4	-99	100	.	.	.	.	.	62	.	.	.
5	CS	5	-109	109	.	.	.	.	.	64	.	.	.
6	CS	6	-181	178	178	.	1	926	.	84	178	.	1
7	CS	7	-156	154	154	.	2	813	.	43	154	.	1
8	CS	8	-158	156	.	.	.	.	.	76	157	.	1
9	CS	9	-147	146	.	.	.	.	.	96	.	.	.
10	CS	10	-235	229	.	.	.	.	.	63	.	.	.
11	CS	12	-341	330	.	.	.	.	.	83	329	.	1
12	CS	13	-354	343	.	.	.	.	.	97	.	.	.
13	CS	14	-117	117	.	.	.	.	.	101	.	.	.
14	CS	15	-199	195	.	.	.	.	.	96	.	.	.
15	CS	16	-296	287	.	.	.	.	.	96	.	.	.
16	CS	17	-476	476	476	.	2	995	.	114	476	.	1
17	CS	18	-422	410	.	.	.	.	.	62	.	.	.
18	CS	19	-306	267	.	.	.	.	.	72	.	.	.
19	CS	20	-375	352	.	.	.	.	.	117	.	.	.
20	CS	21	-245	193	.	.	.	.	.	43	.	.	.
21	CS	22	-664	707	.	.	.	.	.	83	.	.	.
22	CS	23	-584	609	.	.	.	.	.	63	.	.	.
23	CS	24	-784	854	.	.	.	.	.	75	.	.	.
24	CS	25	-533	546	.	.	.	.	.	130	.	.	.
25	CS	27	-410	395	.	.	.	.	.	78	.	.	.
26	CS	28	-768	834	.	.	.	.	.	106	.	.	.
27	CS	29	-410	395	395	.	1	969	.	65	394	-1	1
28	CS	43	-1559	1805	.	.	.	.	.	173	.	.	.
29	CS	30	-1312	1308	1308	.	1	995	.	117	1308	.	1
30	CS	26	-1140	1133	.	.	.	.	.	129	.	.	.
31	CS	31	-1021	1011	.	.	.	.	.	97	.	.	.
32	CS	32	-969	958	.	.	.	.	.	75	.	.	.
33	CS	33	-1145	1138	.	.	.	.	.	43	1141	.	2
34	CS	34	-859	846	.	.	.	.	.	43	850	.	1
35	CS	35	-1021	1011	.	.	.	.	.	164	.	.	.
36	CS	36	-1720	1724	.	.	.	.	.	83	1720	.	2
37	CS	37	-860	847	.	.	.	.	.	91	846	.	1
38	CS	38	-1321	1317	.	.	.	.	.	112	.	.	.
39	CS	39	-1370	1367	.	.	.	.	.	106	.	.	.
40	CS	40	-1521	1521	.	.	.	.	.	104	.	.	.
41	CS	41	-1407	1405	.	.	.	.	.	106	.	.	.
42	CS	42	-1512	1512	.	.	.	.	.	106	.	.	.
43	CS	44	-1647	1650	1650	.	1	992	.	95	1650	.	1
44	CS	45	-841	828	828	.	2	994	.	98	827	-1	1

000816

Quantitation Report File: B0401LC03

Data: B0401LC03.TI
04/01/91 10:56:00
Sample: WATER BLANK, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	315	4:12	1	1.000	A BB	10630.	50.000 UG/G	10.72
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	178	2:22	1	0.565	A BB	159.	~~0.592~~ UG/G	0.13
7	43	154	2:03	1	0.489	A BV	233.	~~1.723~~ UG/G	0.37
8	76	157	2:06	1	0.498	A BB	57.	~~0.055~~ UG/G	0.01
9	NOT FOUND								
10	NOT FOUND								
11	83	329	4:23	1	1.044	A BB	18.	~~0.031~~ UG/G	0.01
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	114	476	6:21	16	1.000	A BB	50209.	50.000 UG/G	10.72
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	NOT FOUND								
26	NOT FOUND								
27	65	394	5:15	16	0.828	A BB	15390.	105.504 %	22.62
28	NOT FOUND								
29	117	1308	17:26	29	1.000	A BB	55242.	50.000 UG/G	10.72
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	1141	15:13	29	0.872	A*BB	55.	~~0.112~~ UG/G	0.02
34	43	850	11:20	29	0.650	A BB	101.	~~0.257~~ UG/G	0.06
35	NOT FOUND								
36	83	1720	22:56	29	1.315	A*BB	63.	~~0.075~~ UG/G	0.02
37	91	846	11:17	29	0.647	A BB	27.	~~0.027~~ UG/G	0.01
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	95	1650	22:00	29	1.261	A BB	57429.	102.592 %	21.99
44	98	827	11:02	29	0.632	A BB	56805.	105.691 %	22.66

Quantitation Report File: B0401LC03A

Data: B0401LC03.TI
04/01/91 10:56:00
Sample: WATER BLANK, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	447	5:58	1	1.000	A BB	172371.	66.200	*100.

92226001495

TARGET COMPOUND SPECTA

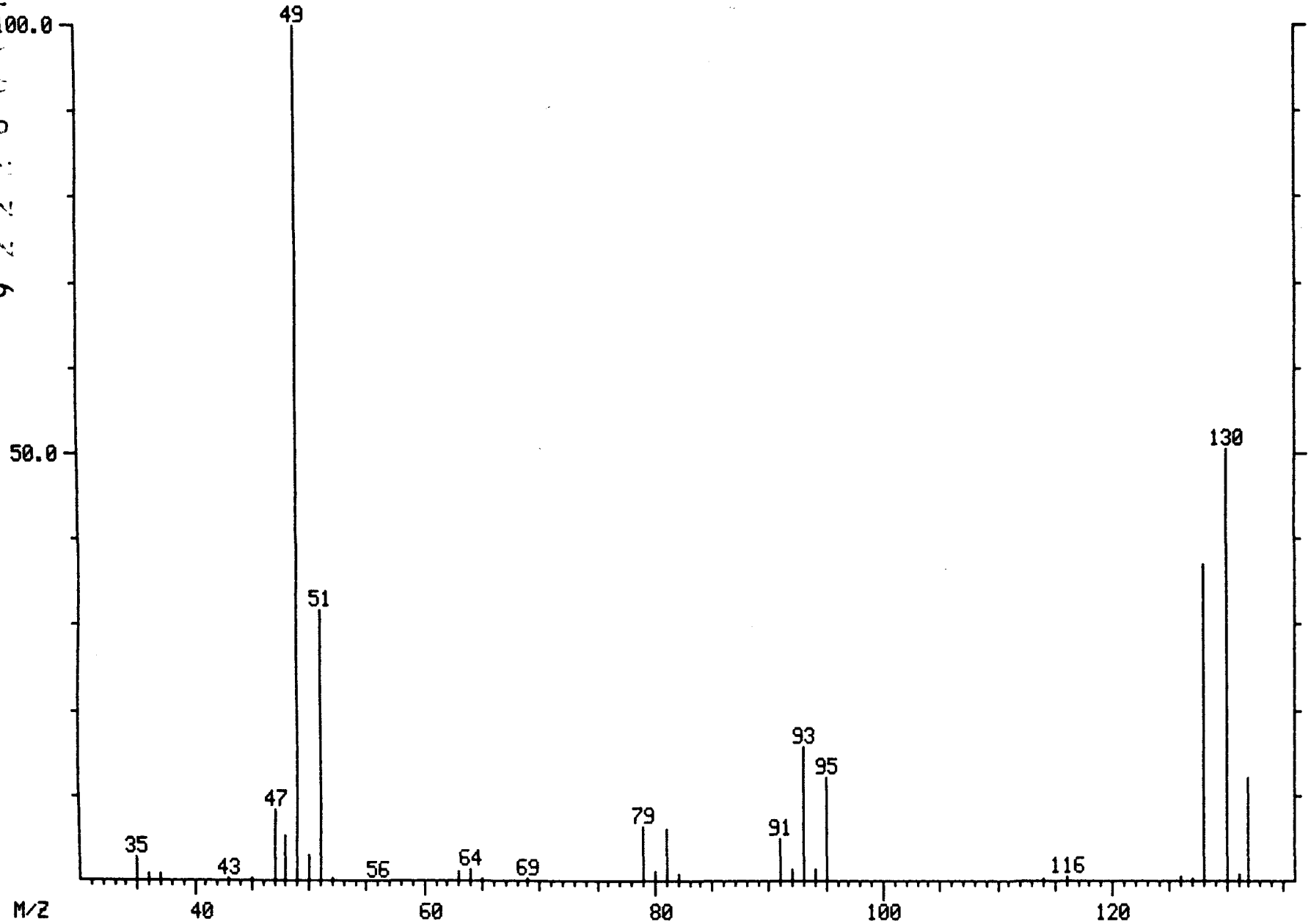
9222260014496

000820

MASS SPECTRUM
04/01/91 10:56:00 + 4:12
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 #315
CALI: B0401LC03 #3

BASE M/Z: 49
RIC: 11776.



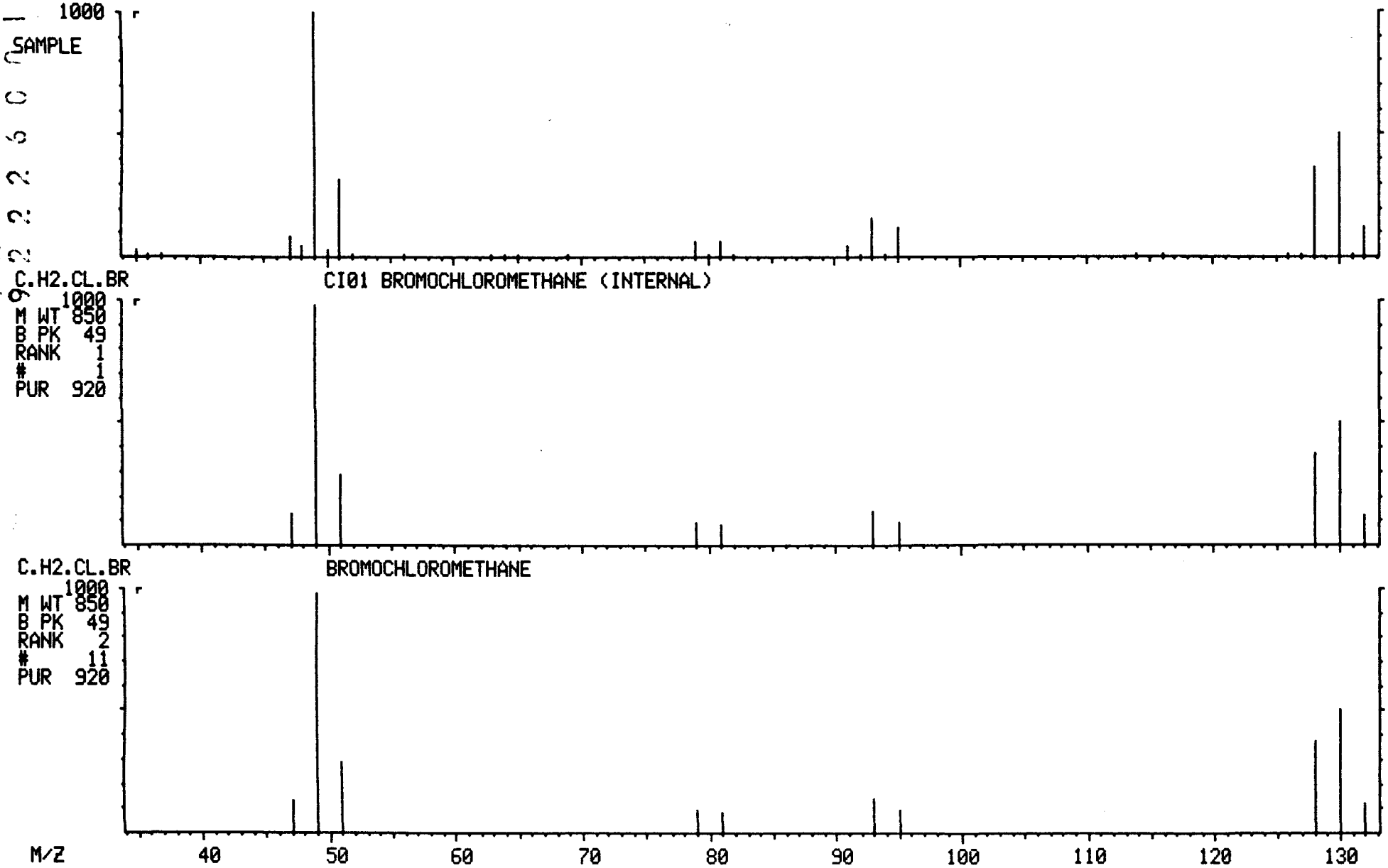
128600

LIBRARY SEARCH
04/01/91 10:56:00 + 4:12
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 # 315
CALI: B0401LC03 # 3

BASE M/Z: 49
RIC: 11759.

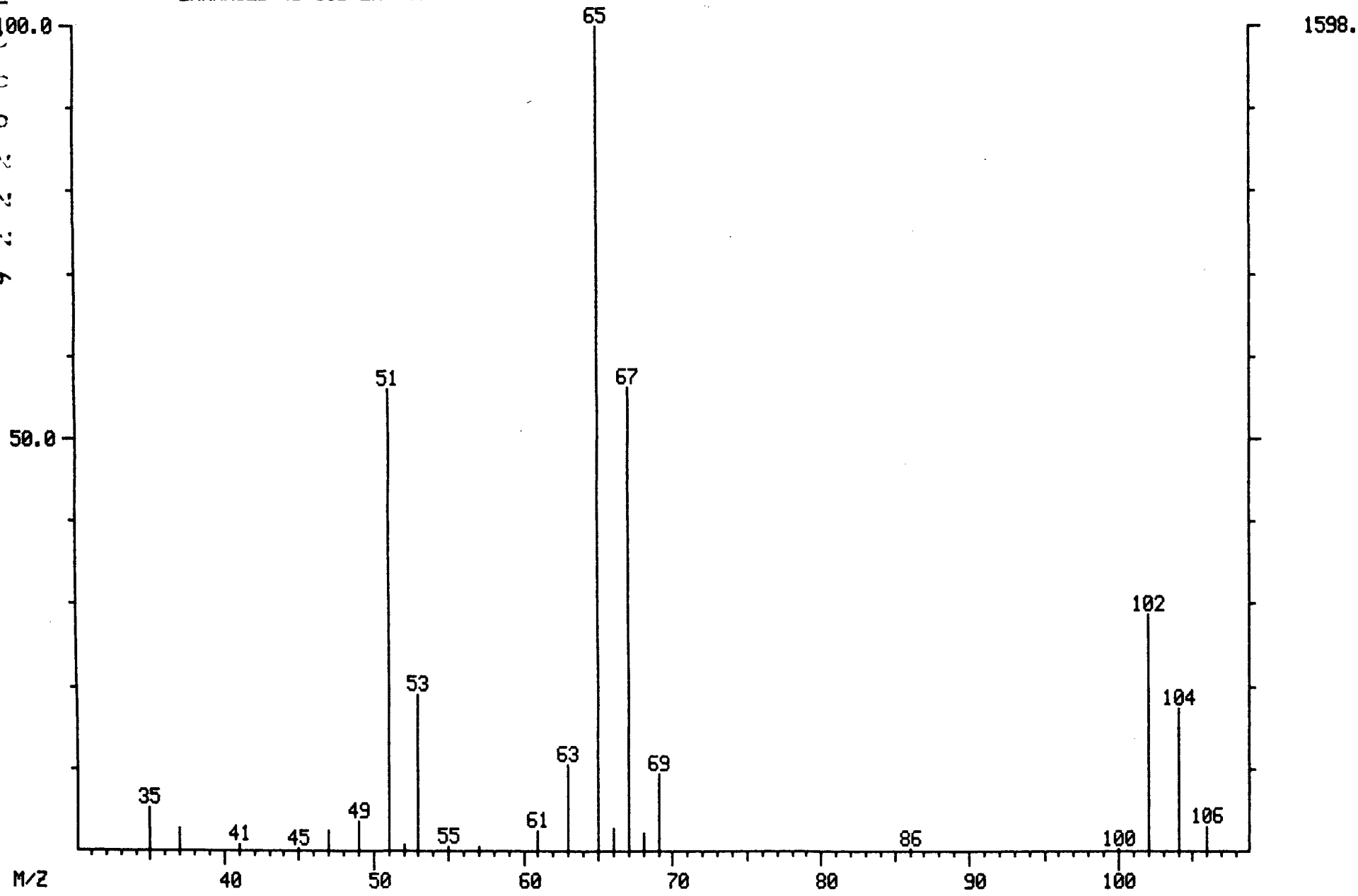
000822



MASS SPECTRUM
04/01/91 10:56:00 + 5:15
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 #394
CALI: B0401LC03 #3

BASE M/Z: 65
RIC: 5216.



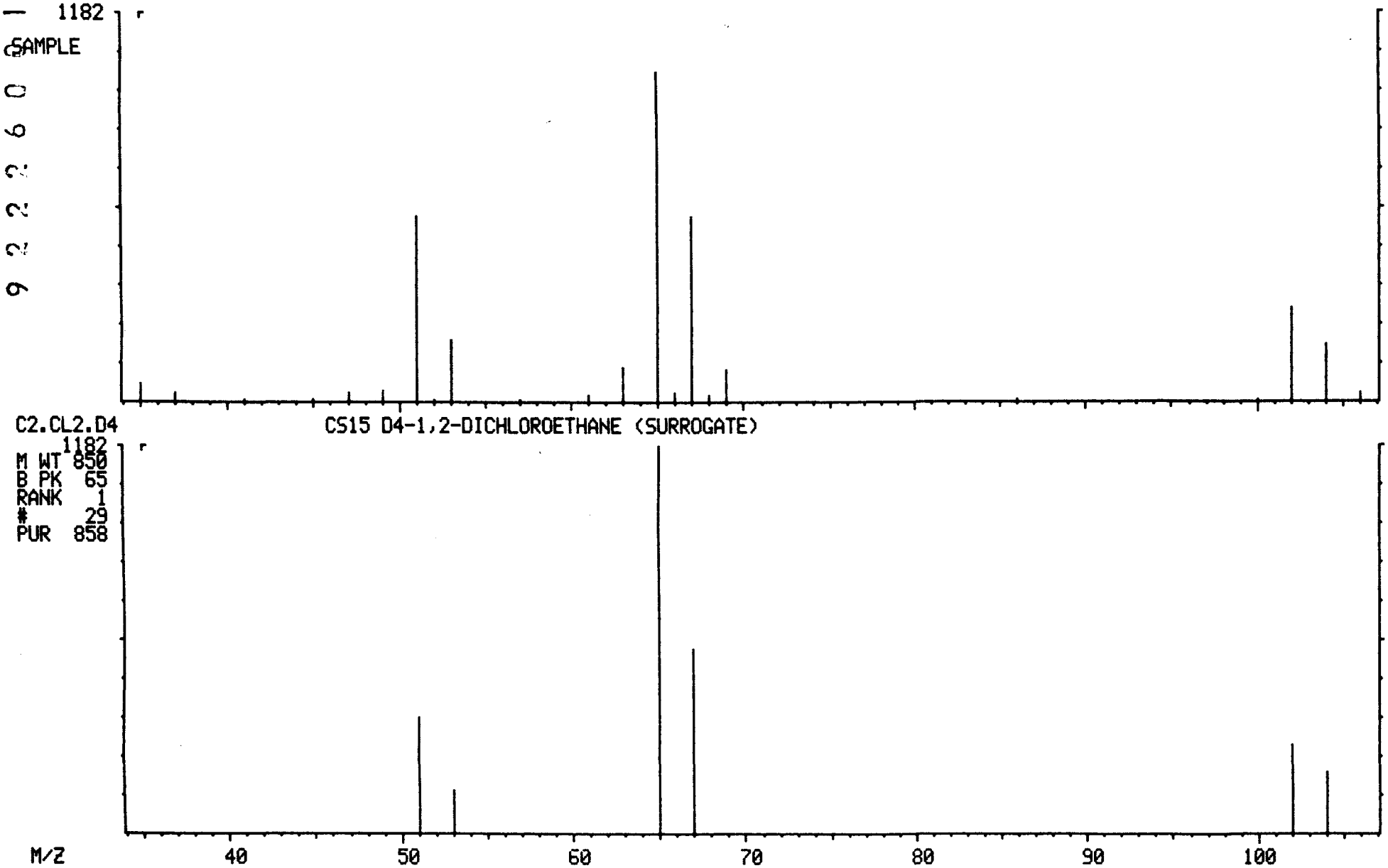
000823

LIBRARY SEARCH
04/01/91 10:56:00 + 5:15
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 # 394
CALI: B0401LC03 # 3

BASE M/Z: 65
RIC: 5207.

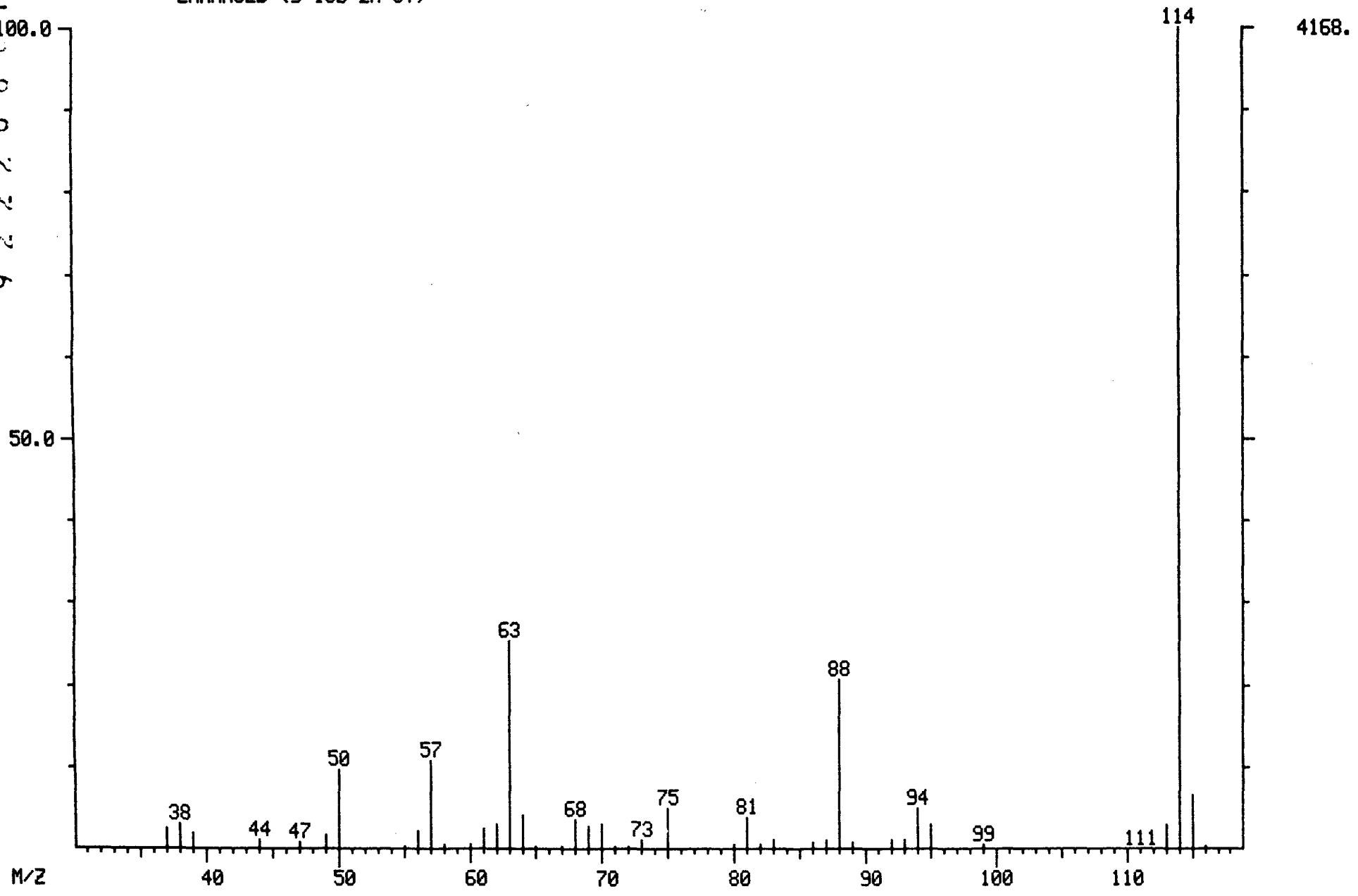
000824



MASS SPECTRUM
04/01/91 10:56:00 + 6:21
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 #476
CALI: B0401LC03 #3

BASE M/Z: 114
RIC: 9920.

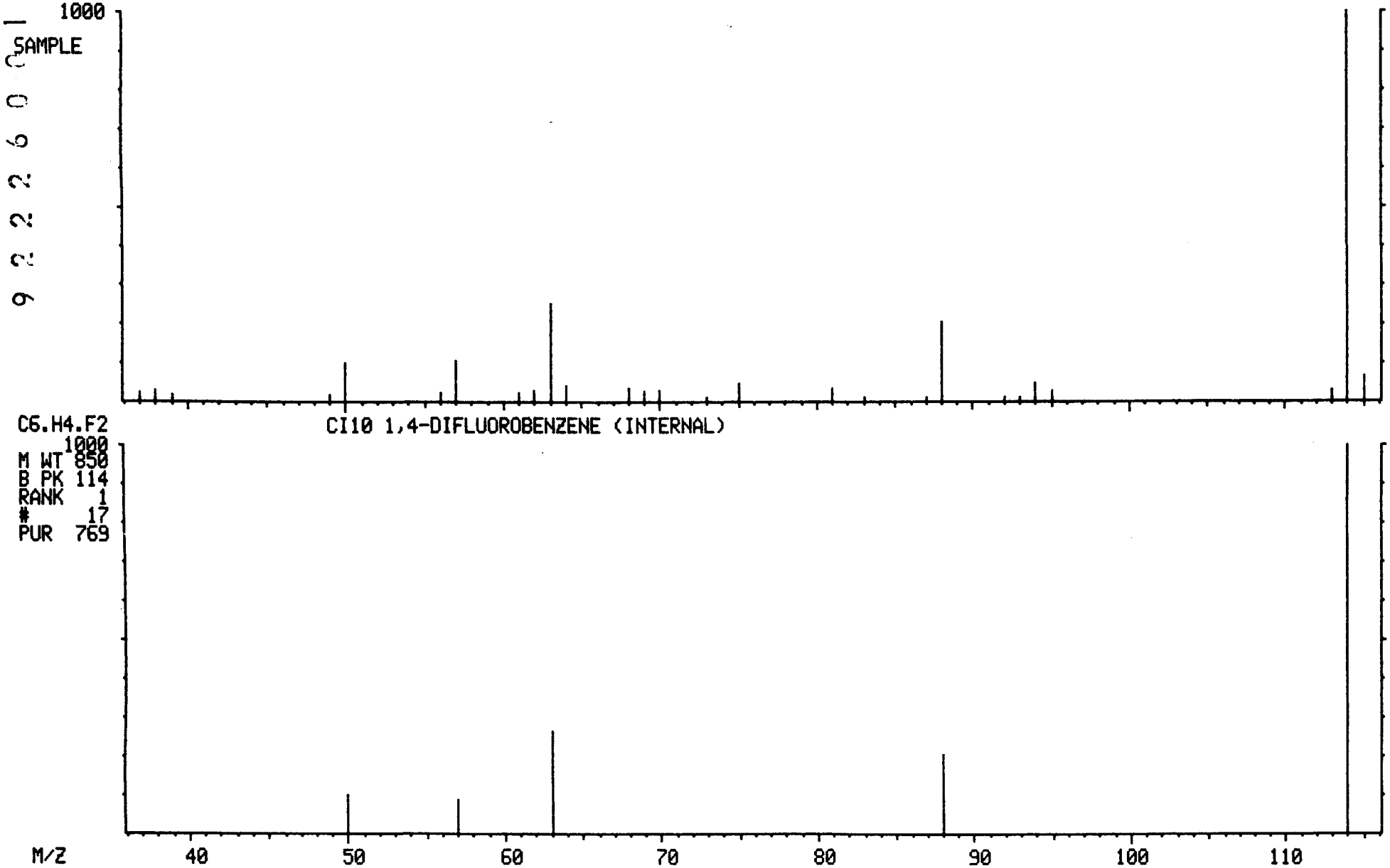


LIBRARY SEARCH
04/01/91 10:56:00 + 6:21
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 # 476
CALI: B0401LC03 # 3

BASE M/Z: 114
RIC: 9567.

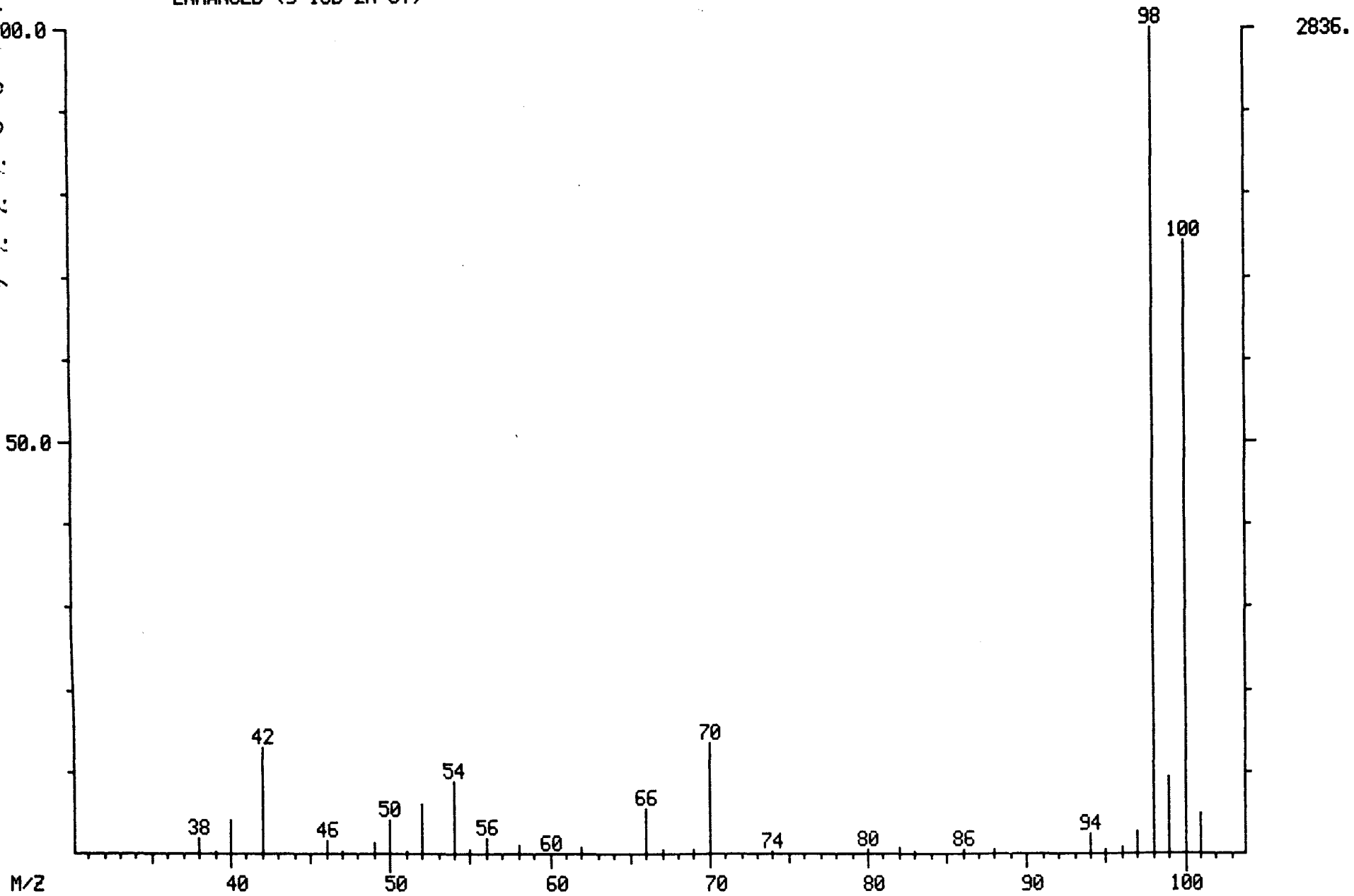
000826



MASS SPECTRUM
04/01/91 10:56:00 + 11:02
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 #827
CALI: B0401LC03 #3

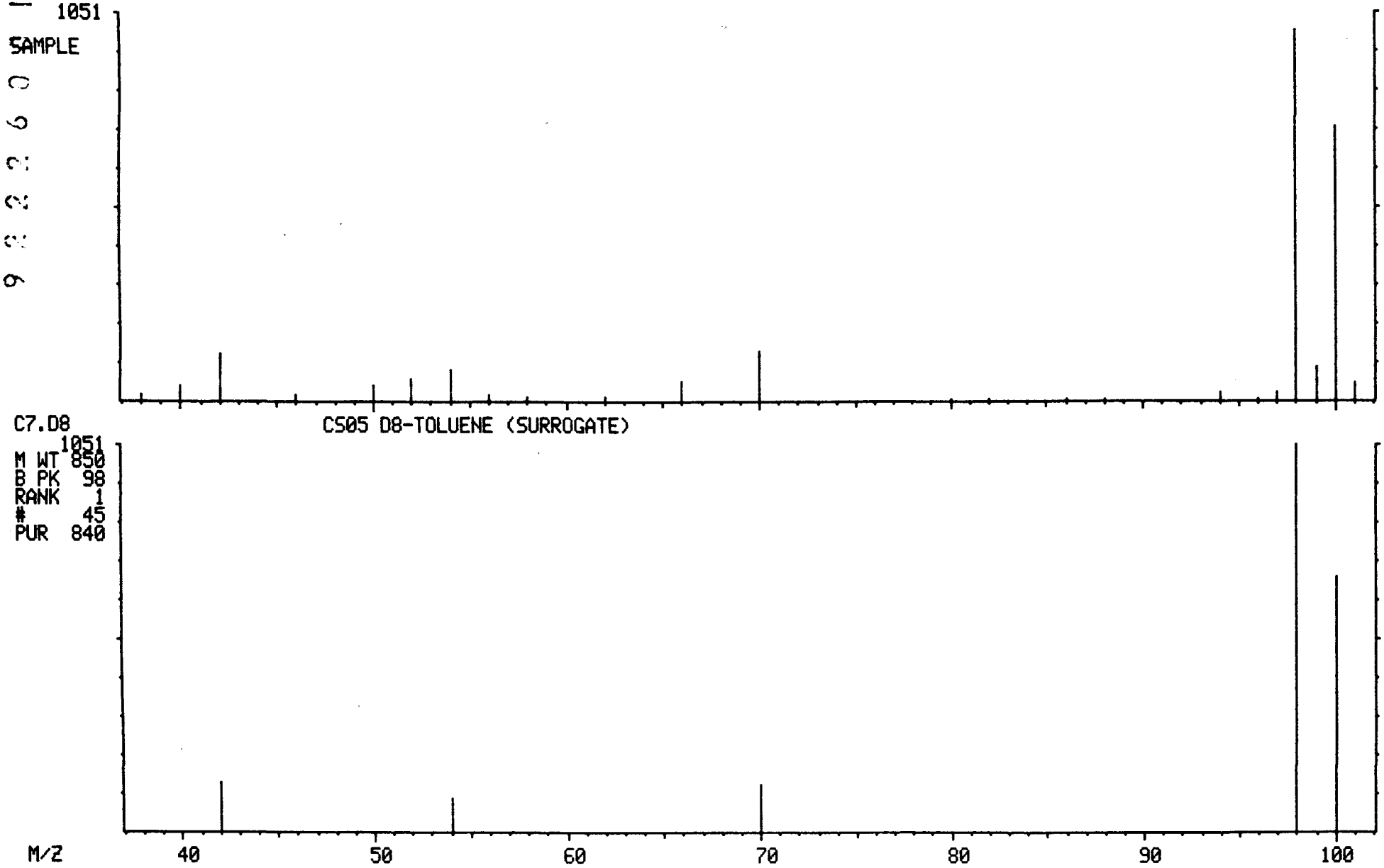
BASE M/Z: 98
RIC: 7536.



LIBRARY SEARCH
04/01/91 10:56:00 + 11:02
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 # 827
CALI: B0401LC03 # 3

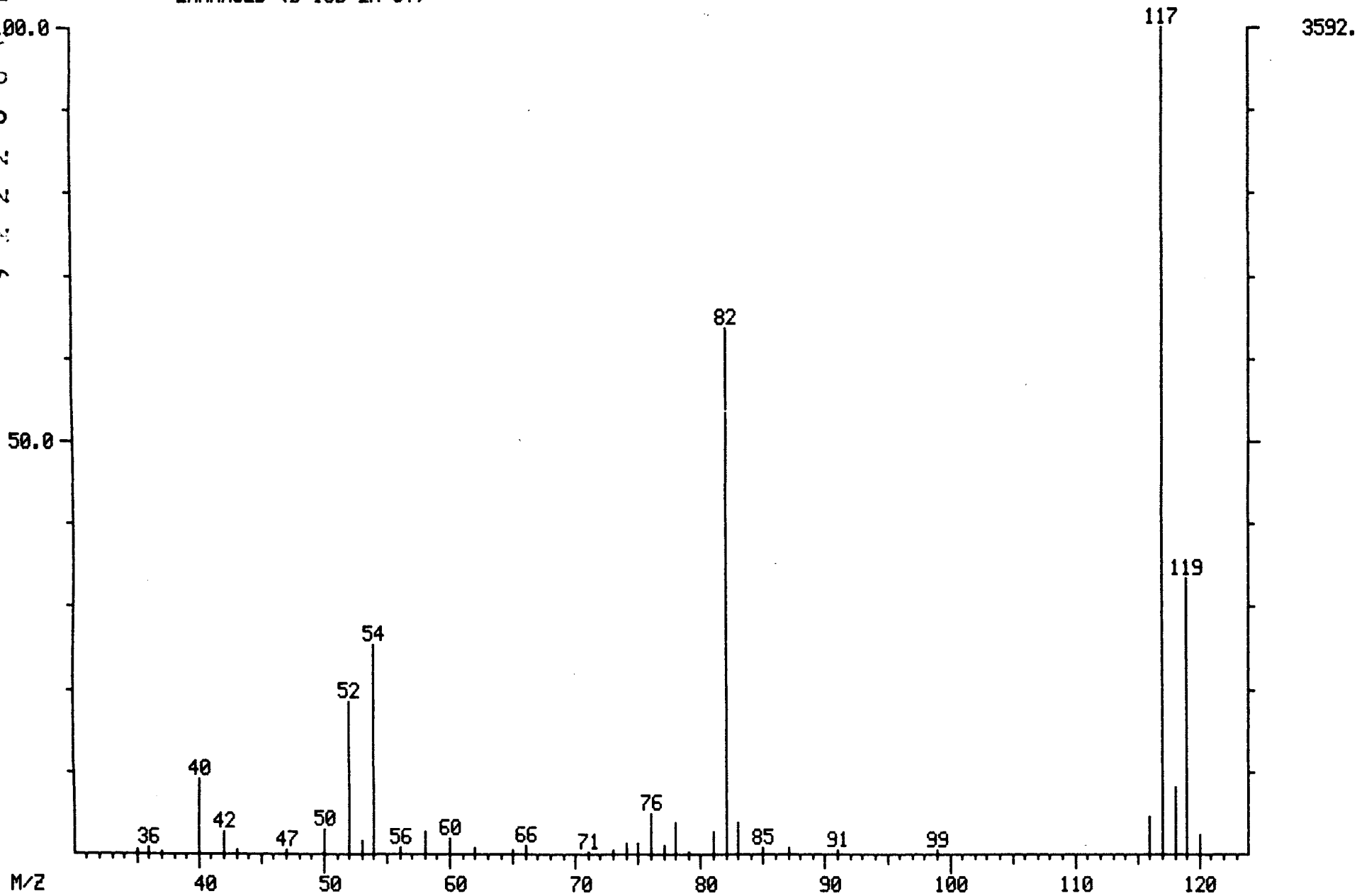
BASE M/Z: 98
RIC: 7383.



MASS SPECTRUM
04/01/91 10:56:00 + 17:26
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 #1308
CALI: B0401LC03 #3

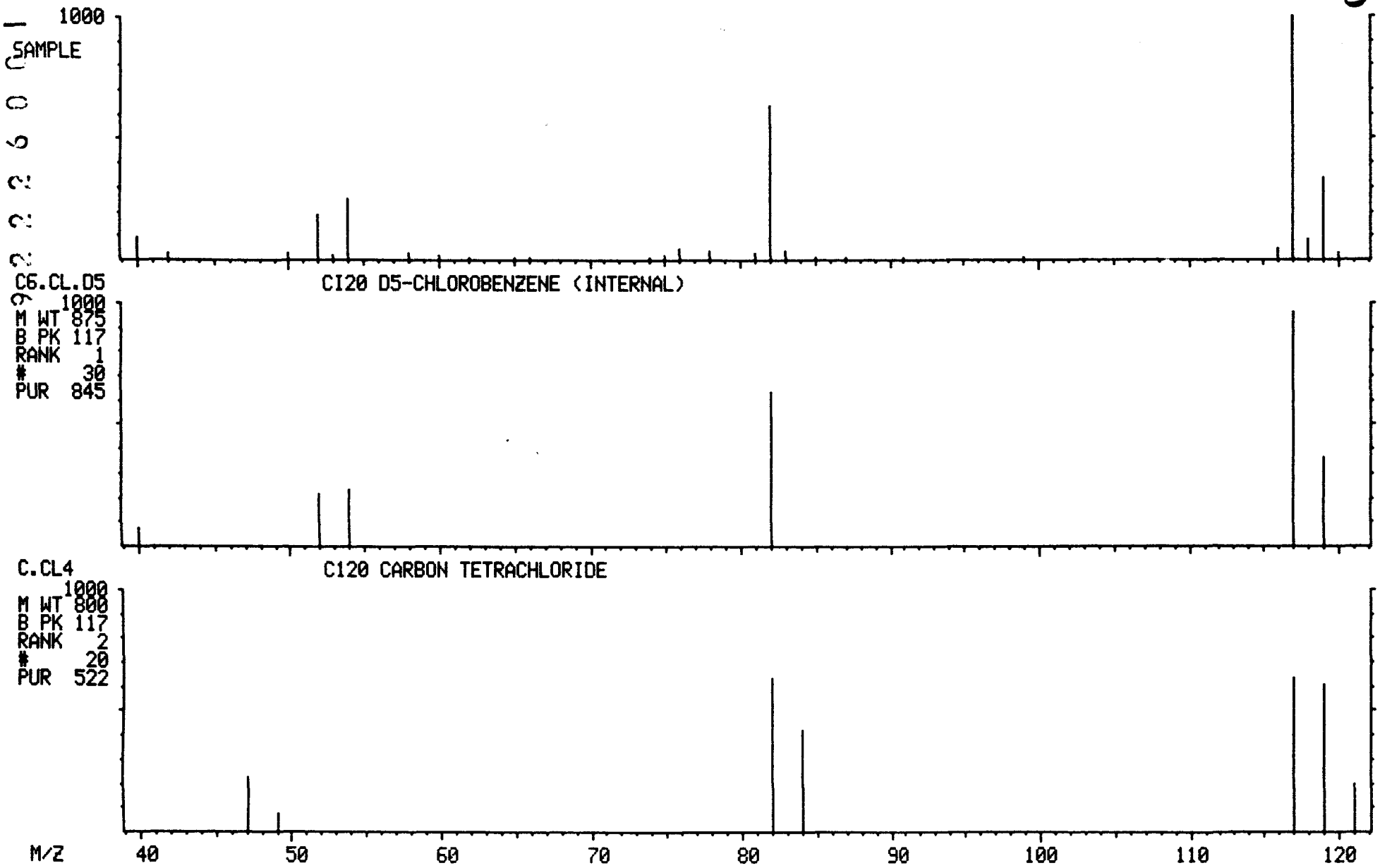
BASE M/Z: 117
RIC: 11056.



LIBRARY SEARCH
04/01/91 10:56:00 + 17:26
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 #1308
CALI: B0401LC03 # 3

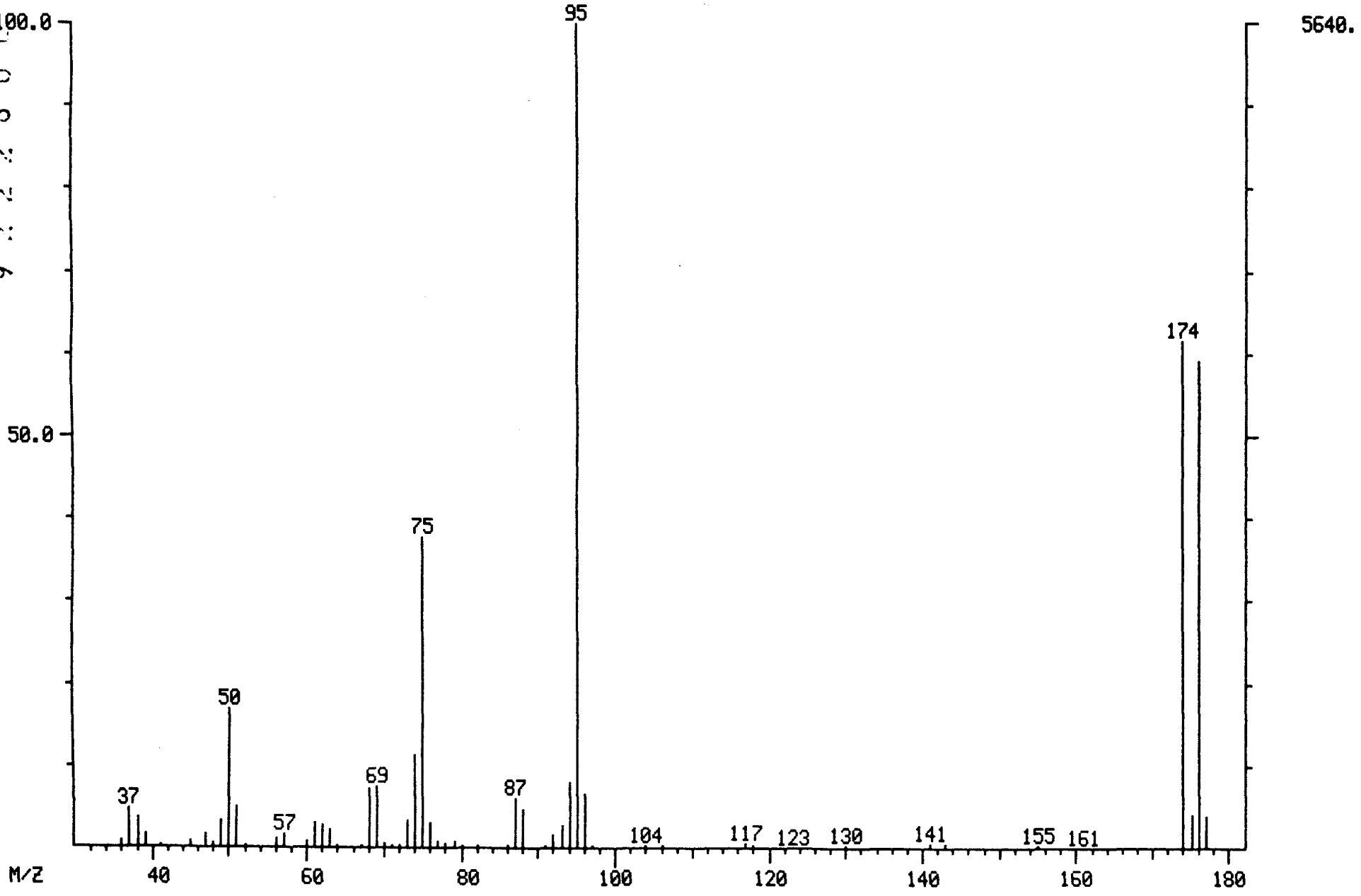
BASE M/Z: 117
RIC: 10863.



MASS SPECTRUM
04/01/91 10:56:00 + 22:00
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 #1650
CALI: B0401LC03 #3

BASE M/Z: 95
RIC: 21952.

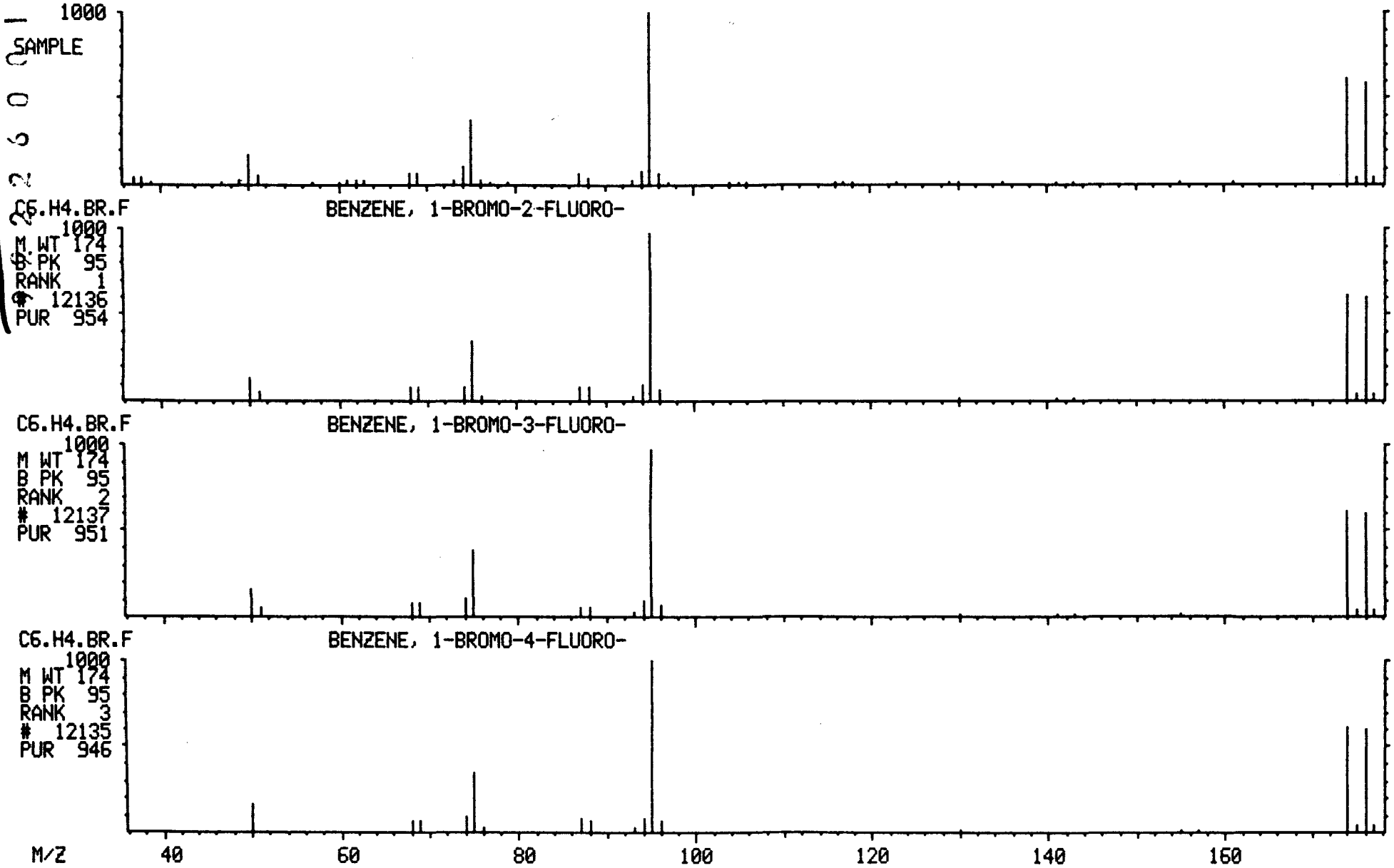


000831

LIBRARY SEARCH
04/01/91 10:56:00 + 22:00
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 #1650
CALI: B0401LC03 # 3

BASE M/Z: 95
RIC: 21439.



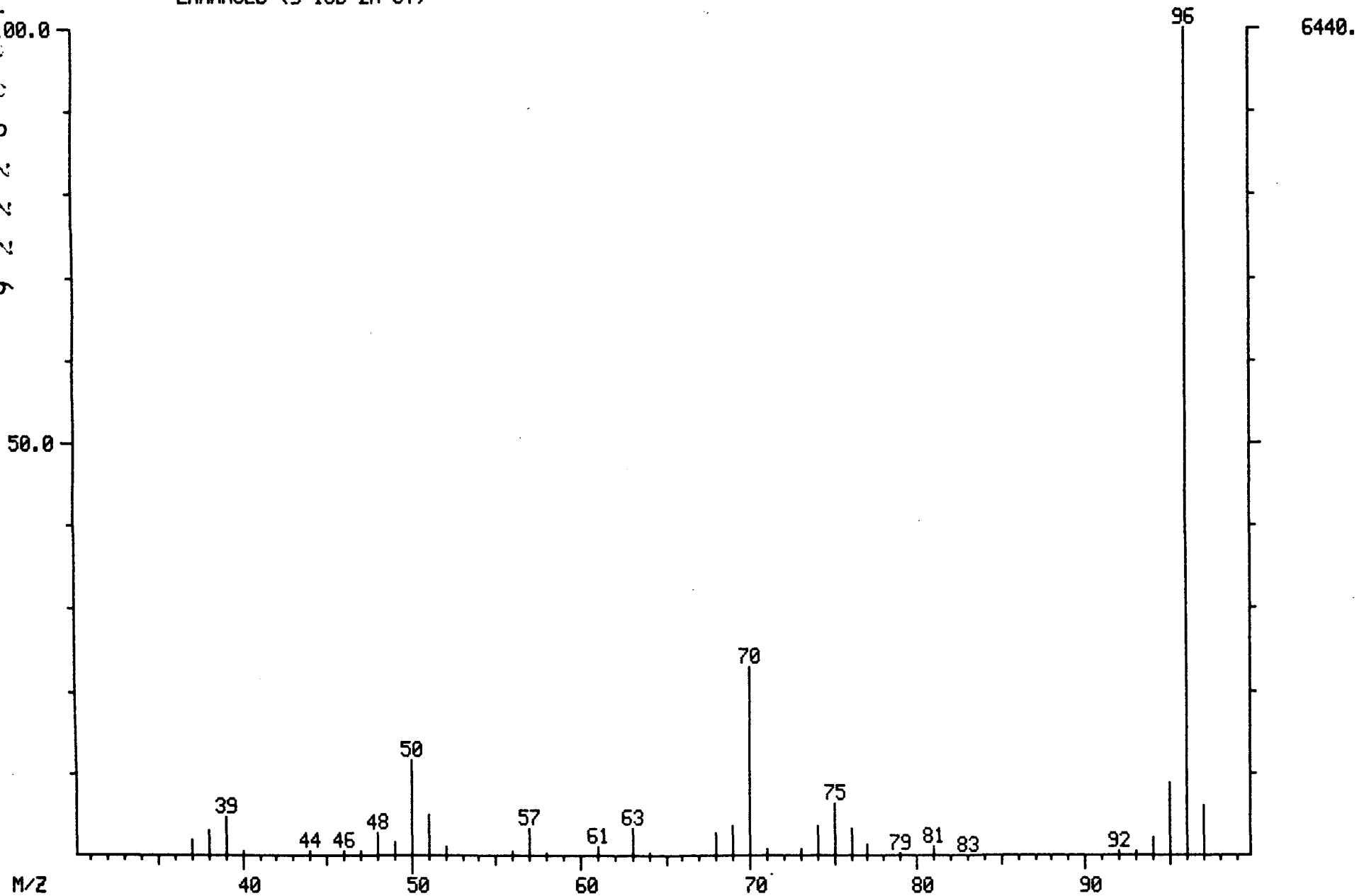
9 2 2 2 6 0 0 1 5 0 9

NON-TARGET COMPOUND SPECTRA

MASS SPECTRUM
04/01/91 10:56:00 + 5:58
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 36 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 #447
CALI: B0401LC03 #3

BASE M/Z: 96
RIC: 13424.

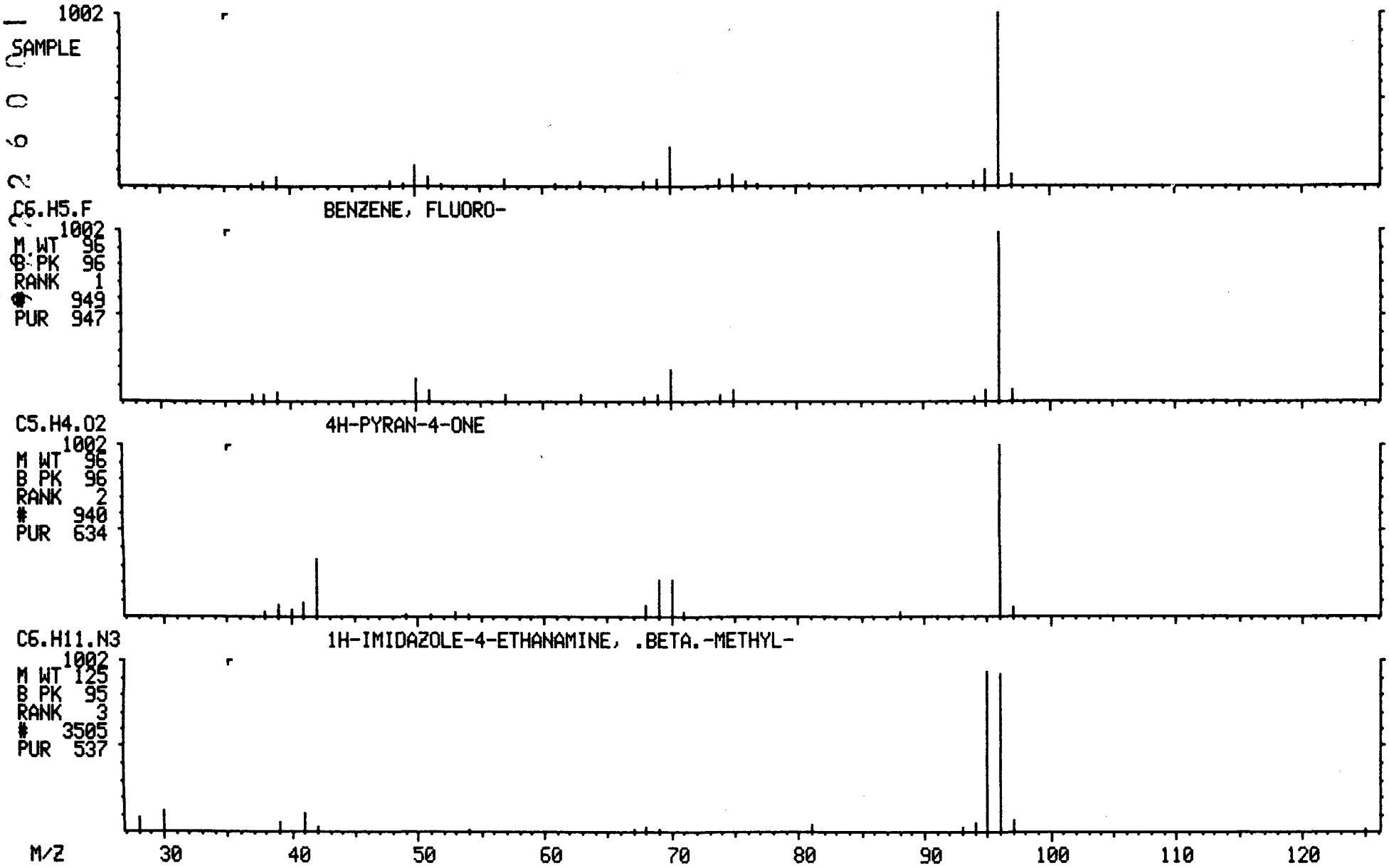


003034

LIBRARY SEARCH
04/01/91 10:56:00 + 5:58
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0401LC03 # 447
CALI: B0401LC03 # 3

BASE M/Z: 96
RIC: 13055.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKSL

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: 040291BLK

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0402LC03

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/02/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKSL

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: 040291BLK

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0402LC03

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 04/02/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

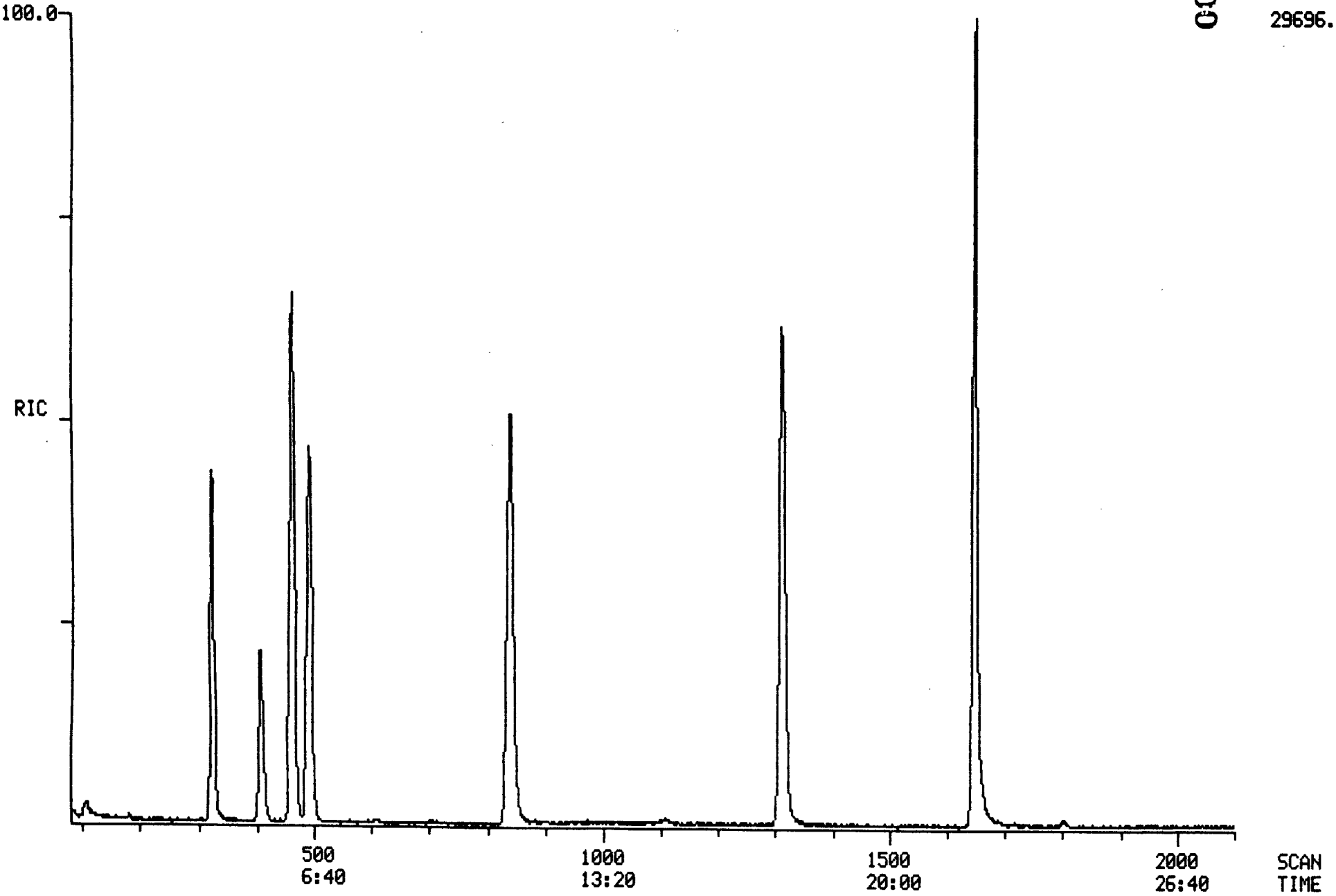
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

000837

VBLK5L

RIC
04/02/91 10:41:00
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC03 #1 SCANS 80 TO 2100
CALI: B0402LC03 #3

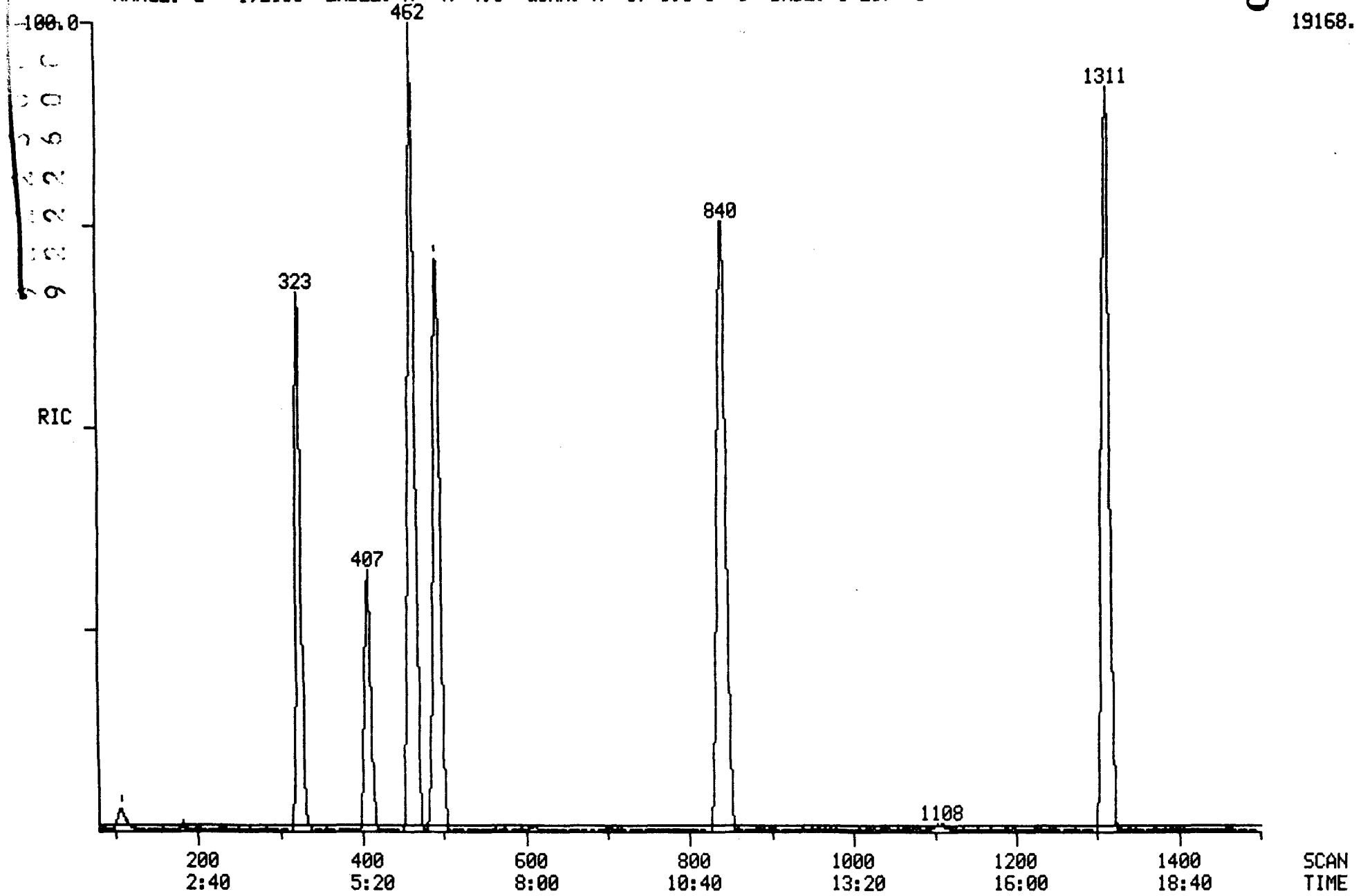


TCA FINISHED, 9 FOUND
FINISHED AT: 4/02/91 17:02:43

0008838

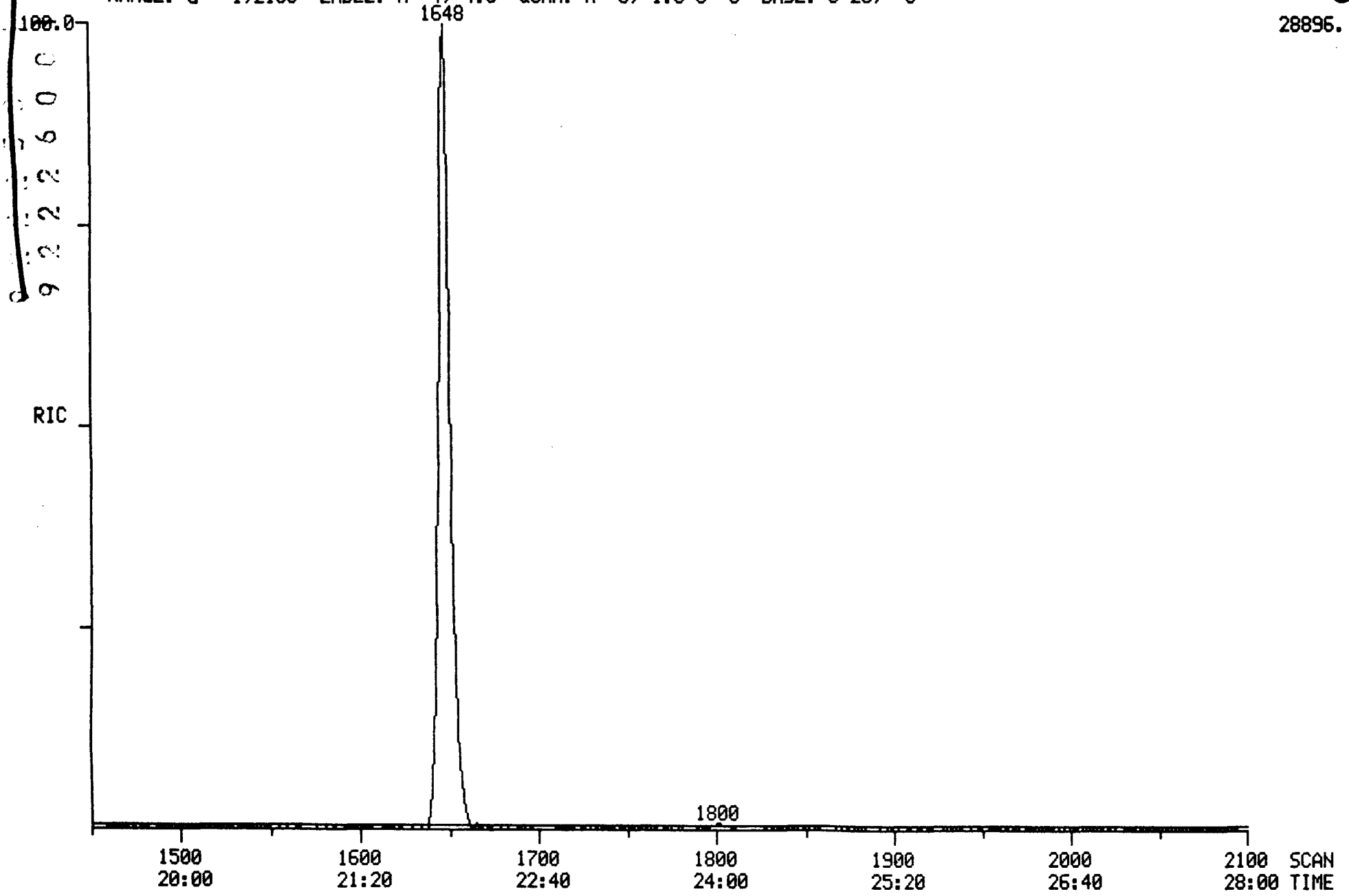
RIC
04/02/91 10:41:00
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC03 #1 SCANS 80 TO 1500
CALI: B0402LC03 #3



RIC
04/02/91 10:41:00
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0402LC03 #1 SCANS 1450 TO 2100
CALI: B0402LC03 #3



28896.

0038C00
9222600 5 1 6

4/2/91 10:41:24 SCAN 1 OF 2100
Acquisition started

Acquire
04/02/91 10:41:00 + 0:01
Sample: WATER BLANK, 5ML+SUR+INT
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0402LC03
Free sectors: 6621
Instrument: 5100
Analyst: LC

Acquiring
Scan: 1 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 30 DegC
Elapsed time : 0: 3 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.200
Samp int (ms): 0.200

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7
Electrometer zero: 1.2

000841

4/2/91 10:10:22
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	8.4	1680.0	0.5	23068.	11.	14.

9222600115 8

000842

PROCEDURE: TCA DIAGNOSTIC REPORT 4/02/91 12:07:55
DATA FILE: B0402LC03
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	2	1	0	CLSRT1/CLSTC1
1	1	1	0	13	2	1	0	CLSRT2/CLSTC2
1	1	1	0	16	3	2	0	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 7 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT ><							------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	322	323	323	.	1	977	.	128	323	.	1
2	CS	2	98	101	.	.	.	.	.	50	.	.	.
3	CS	3	108	111	.	.	.	.	.	94	.	.	.
4	CS	4	99	102	.	.	.	.	.	62	.	.	.
5	CS	5	110	112	.	.	.	.	.	64	.	.	.
6	CS	6	180	182	182	.	1	929	.	84	181	-1	1
7	CS	7	155	157	.	.	.	.	.	43	156	.	1
8	CS	8	158	160	.	.	.	.	.	76	159	.	1
9	CS	9	146	148	.	.	.	.	.	96	.	.	.
10	CS	10	234	236	.	.	.	.	.	63	.	.	.
11	CS	12	338	339	.	.	.	.	.	83	338	.	2
12	CS	13	352	353	.	.	.	.	.	97	.	.	.
13	CS	14	117	119	.	.	.	.	.	101	.	.	.
14	CS	15	198	200	.	.	.	.	.	96	.	.	.
15	CS	16	294	295	.	.	.	.	.	96	.	.	.
16	CS	17	491	492	492	.	1	998	.	114	492	.	1
17	CS	18	420	420	.	.	.	.	.	62	.	.	.
18	CS	19	305	304	.	.	.	.	.	72	.	.	.
19	CS	20	372	372	.	.	.	.	.	117	.	.	.
20	CS	21	244	242	.	.	.	.	.	43	.	.	.
21	CS	22	-664	667	.	.	.	.	.	83	.	.	.
22	CS	23	582	584	.	.	.	.	.	63	.	.	.
23	CS	24	783	787	.	.	.	.	.	75	.	.	.
24	CS	25	531	532	.	.	.	.	.	130	.	.	.
25	CS	27	406	406	.	.	.	.	.	78	.	.	.
26	CS	28	-769	773	.	.	.	.	.	106	.	.	.
27	CS	29	407	407	407	.	1	973	.	65	407	.	1
28	CS	43	1563	1577	.	.	.	.	.	173	.	.	.
29	CS	30	1315	1311	1311	.	1	993	.	117	1311	.	1
30	CS	26	1141	1137	.	.	.	.	.	129	.	.	.
31	CS	31	1022	1018	.	.	.	.	.	97	.	.	.
32	CS	32	969	965	.	.	.	.	.	75	.	.	.
33	CS	33	1147	1143	.	.	.	.	.	43	1141	.	1
34	CS	34	857	853	.	.	.	.	.	43	.	.	.
35	CS	35	1022	1018	.	.	.	.	.	164	.	.	.
36	CS	36	1726	1722	.	.	.	.	.	83	1723	.	1
37	CS	37	859	855	.	.	.	.	.	91	857	.	1
38	CS	38	1322	1318	.	.	.	.	.	112	.	.	.
39	CS	39	1374	1370	.	.	.	.	.	106	.	.	.
40	CS	40	1527	1523	.	.	.	.	.	104	.	.	.
41	CS	41	1411	1407	.	.	.	.	.	106	.	.	.
42	CS	42	1516	1512	.	.	.	.	.	106	.	.	.
43	CS	44	1652	1648	1648	.	1	988	.	95	1648	.	1
44	CS	45	843	839	839	.	2	990	.	98	839	.	1

000843

Quantitation Report File: B0402LC03

Data: B0402LC03.TI
04/02/91 10:41:00
Sample: WATER BLANK, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

003844

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	323	4:18	1	1.000	A BB	10892.	50.000 UG/G	11.36
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	84	181	2:25	1	0.560	A BB	113.	~~0.340~~ UG/G	0.08
7	43	156	2:05	1	0.483	A VB	163.	~~1.307~~ UG/G	0.30
8	76	159	2:07	1	0.492	A BB	56.	~~0.053~~ UG/G	0.01
9	NOT FOUND								
10	NOT FOUND								
11	83	338	4:30	1	1.046	A*BB	448.	~~0.877~~ UG/G	0.15
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	114	492	6:34	16	1.000	A BB	52855.	50.000 UG/G	11.36
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	NOT FOUND								
26	NOT FOUND								
27	65	407	5:26	16	0.827	A BB	15772.	96.148 %	21.84
28	NOT FOUND								
29	117	1311	17:29	29	1.000	A BB	59200.	50.000 UG/G	11.36
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	43	1141	15:13	29	0.870	A VB	79.	~~0.165~~ UG/G	0.04
34	NOT FOUND								
35	NOT FOUND								
36	83	1723	22:58	29	1.314	A BB	57.	~~0.073~~ UG/G	0.02
37	91	857	11:26	29	0.654	A BB	24.	~~0.016~~ UG/G	0.00
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	95	1648	21:58	29	1.257	A BB	58921.	100.642 %	22.86
44	98	839	11:11	29	0.640	A BB	61644.	90.959 %	20.66

C03845

TCA FINISHED, 16 FOUND
FINISHED AT: 4/03/91 9:44:07
Quantitation Report File: B0402LC03A

Data: B0402LC03.TI
04/02/91 10:41:00
Sample: WATER BLANK, 5ML+SUR+INT
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	462	6:10	1	1.000	A BB	178648.	66.200	*100.

9222600152

TARGET COMPOUND SPECTA

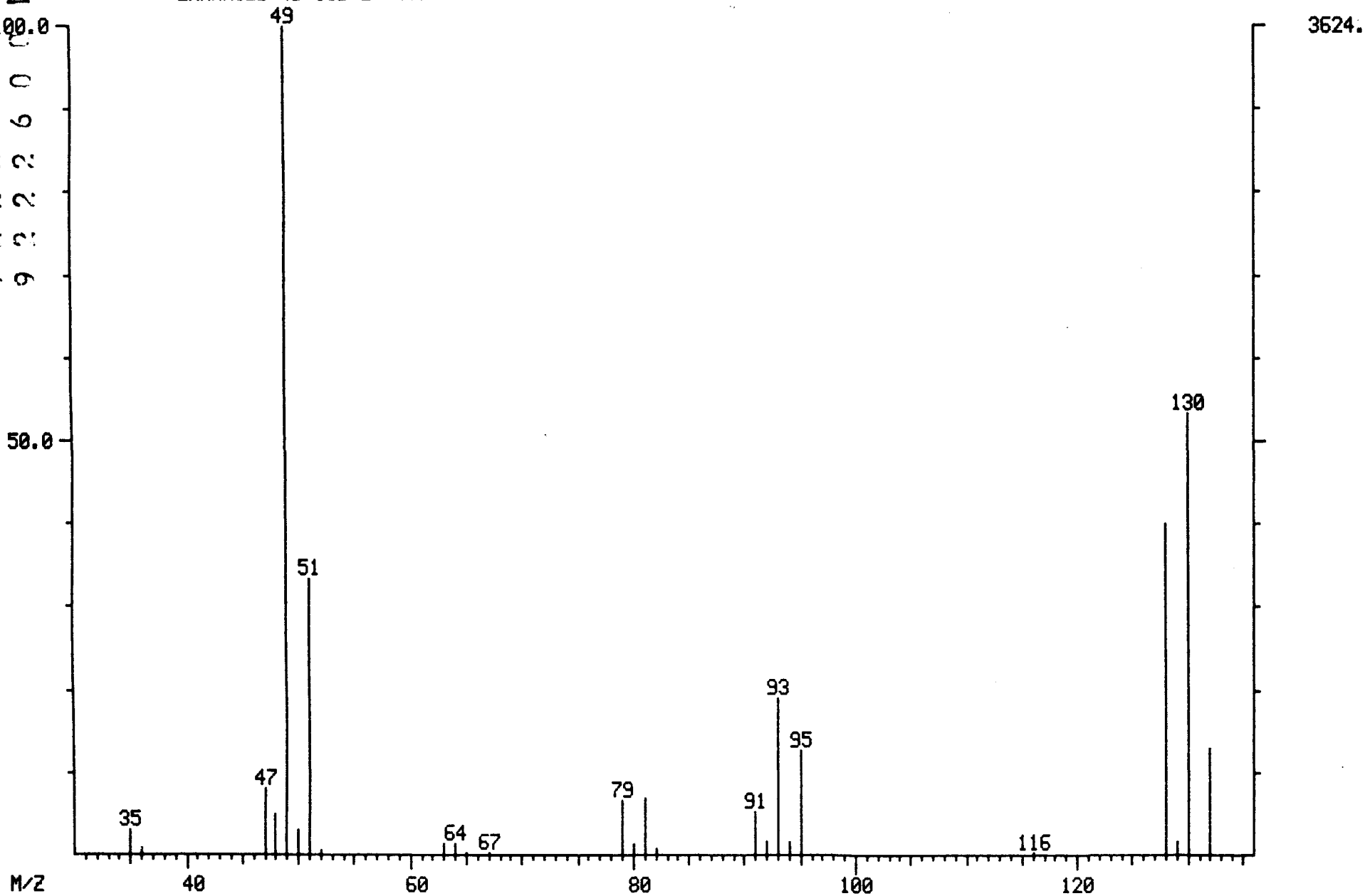
9 2 2 6 0 0 1 5 2 3

003847

MASS SPECTRUM
04/02/91 10:41:00 + 4:18
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 34 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 #323
CALI: B0402LC03 #3

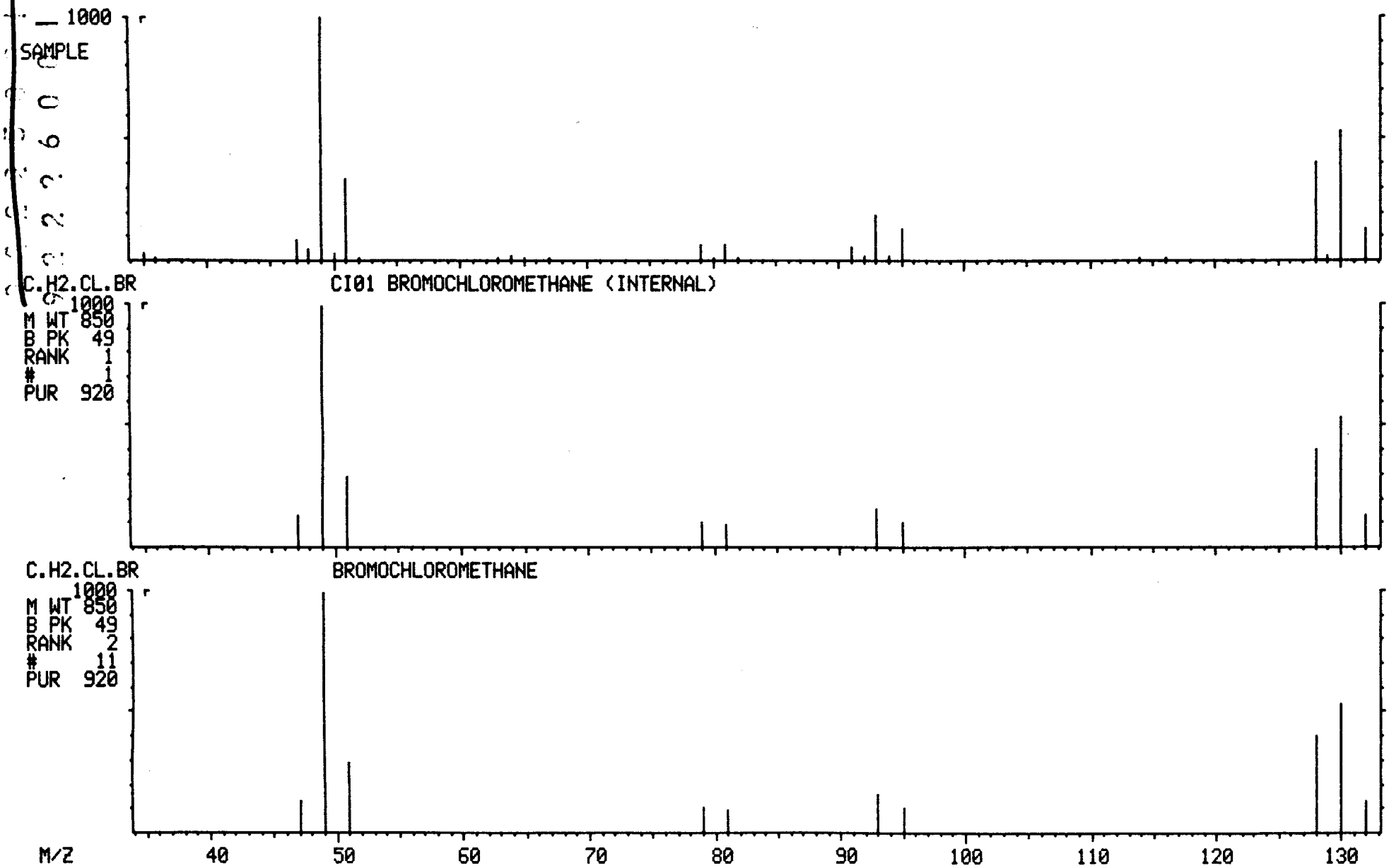
BASE M/Z: 49
RIC: 11728.



LIBRARY SEARCH
04/02/91 10:41:00 + 4:18
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 # 323
CALI: B0402LC03 # 3

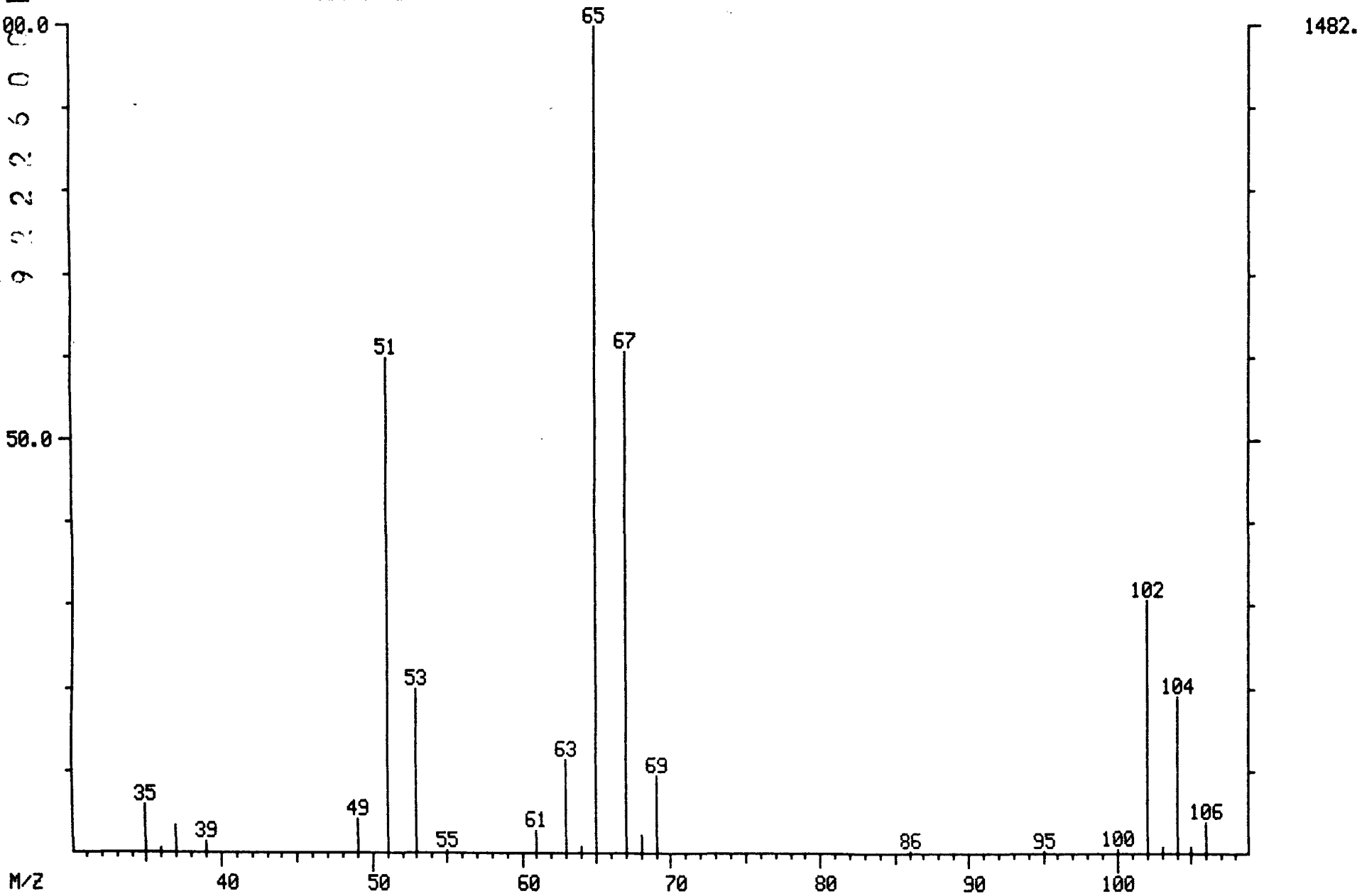
BASE M/Z: 49
RIC: 11727.



MASS SPECTRUM
04/02/91 10:41:00 + 5:26
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 34 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 #407
CALI: B0402LC03 #3

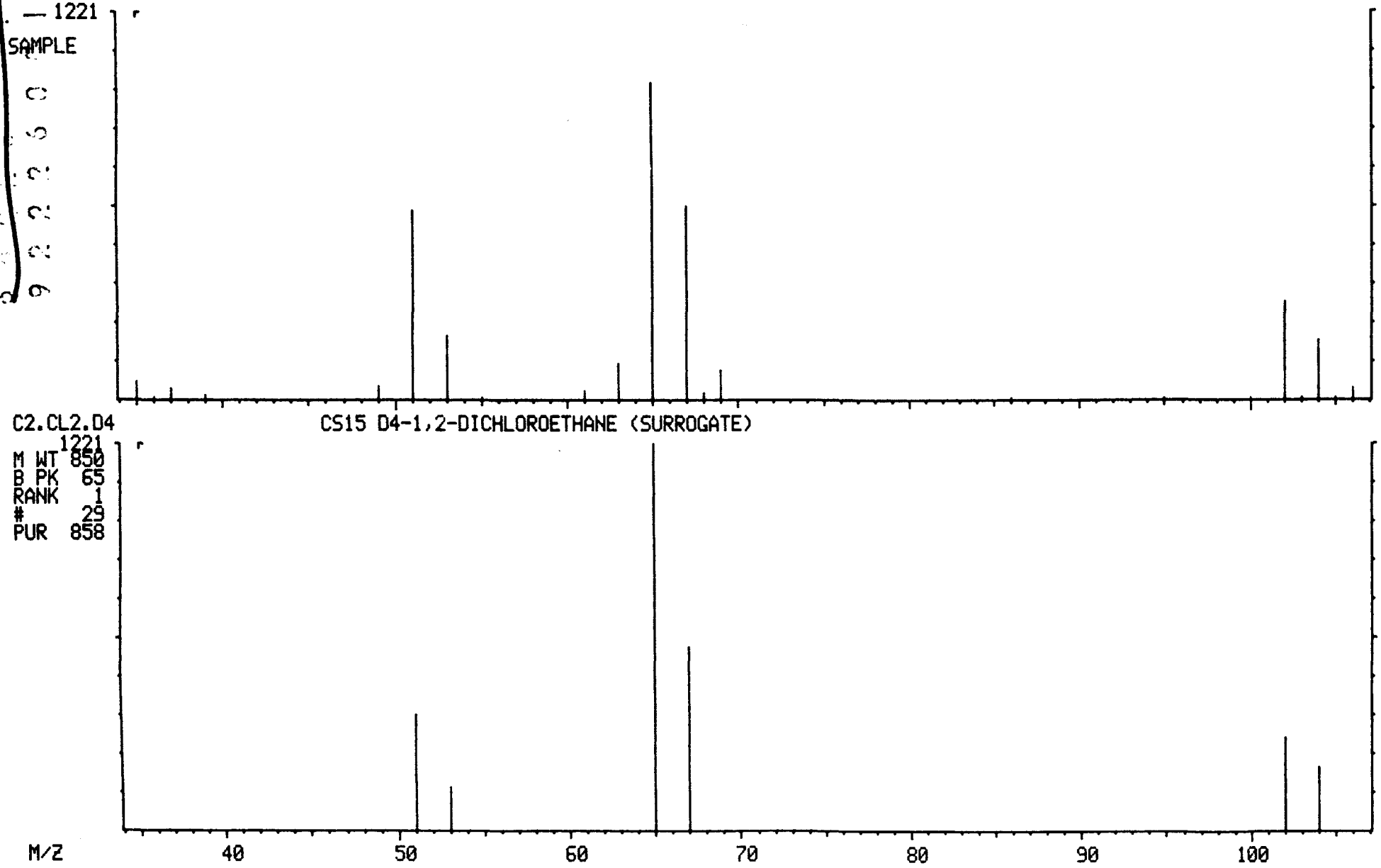
BASE M/Z: 65
RIC: 5032.



LIBRARY SEARCH
04/02/91 10:41:00 + 5:26
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 # 407
CALI: B0402LC03 # 3

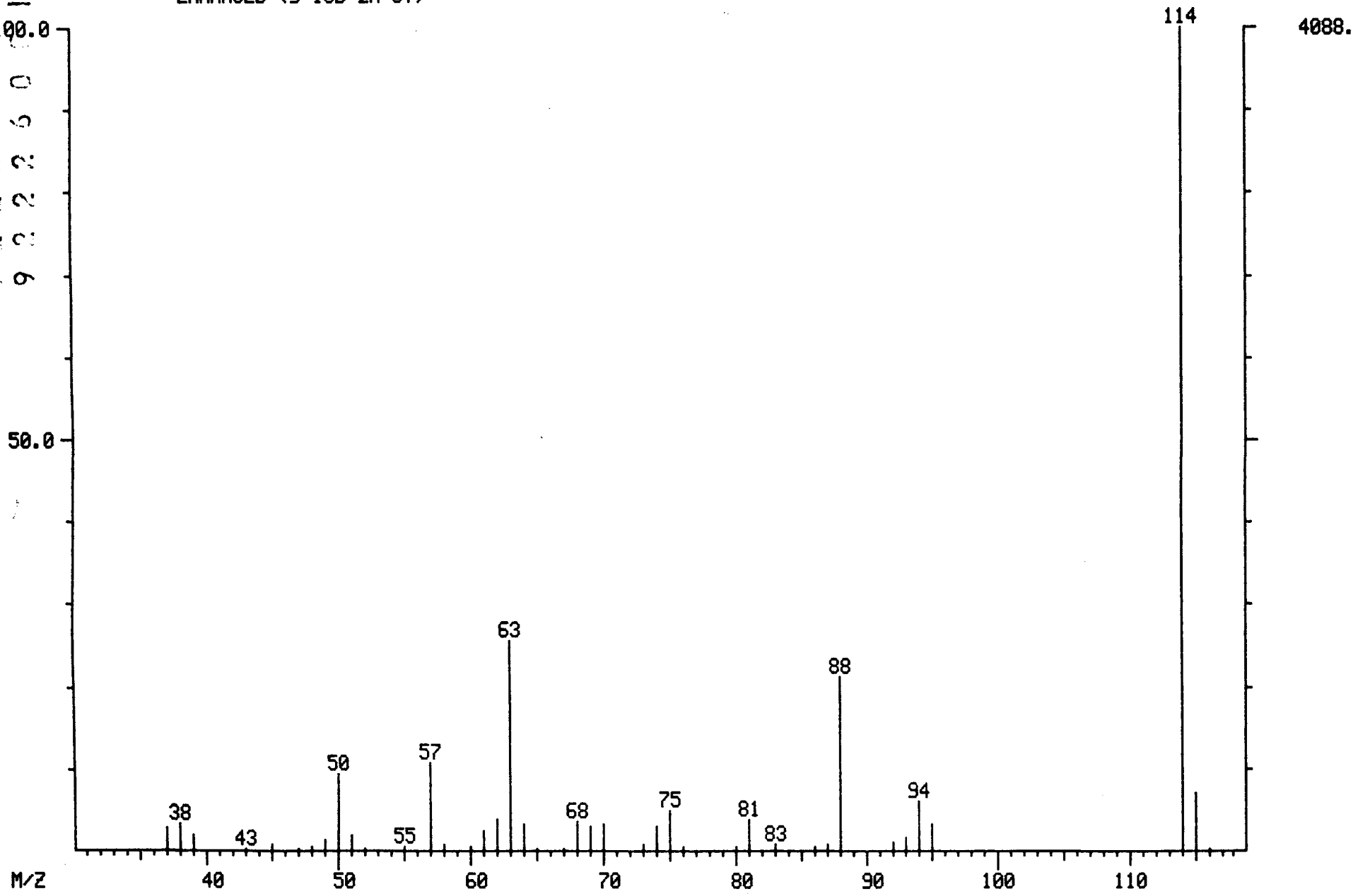
BASE M/Z: 65
RIC: 5015.



MASS SPECTRUM
04/02/91 10:41:00 + 6:34
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 #492
CALI: B0402LC03 #3

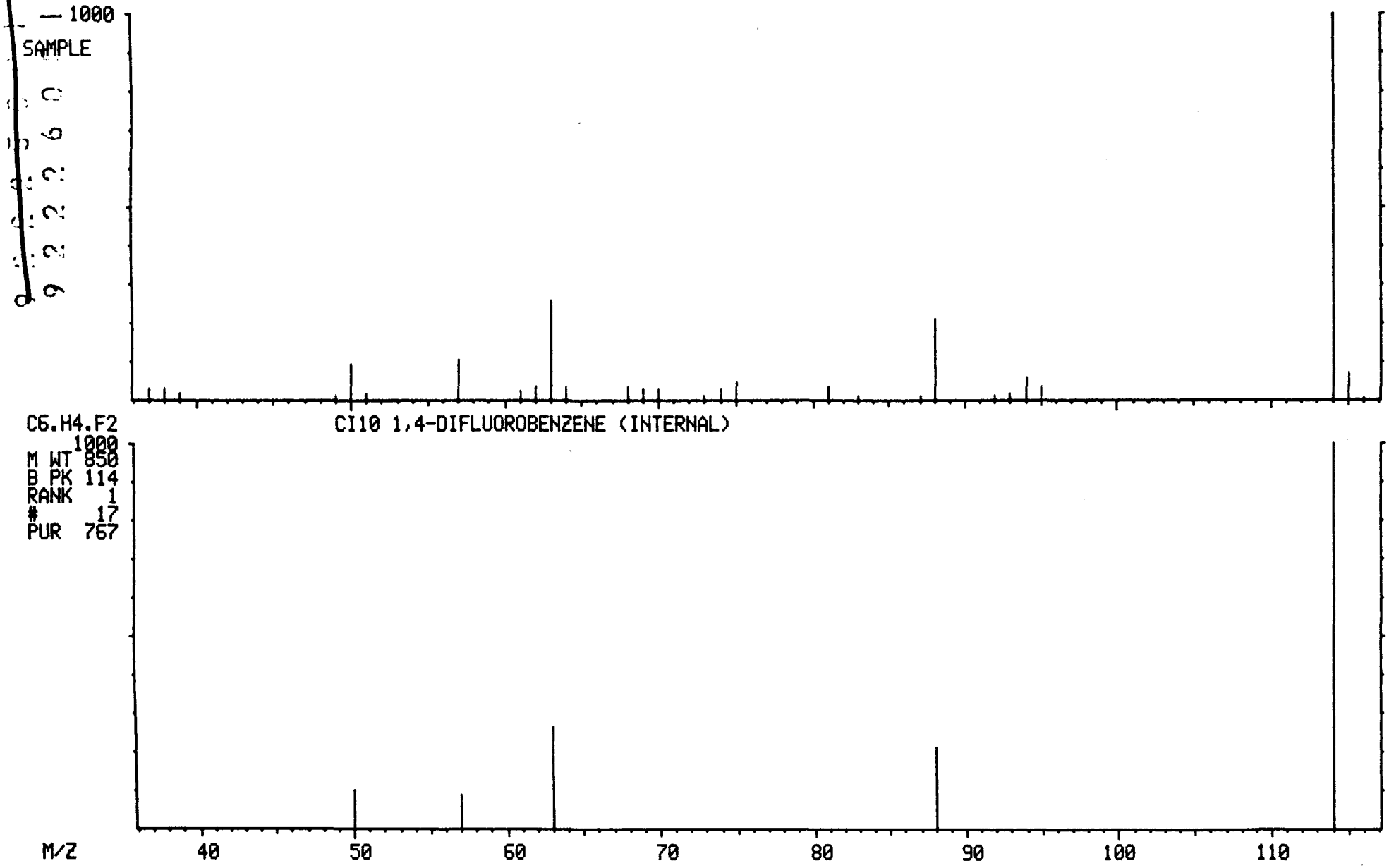
BASE M/Z: 114
RIC: 9760.



LIBRARY SEARCH
04/02/91 10:41:00 + 6:34
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 # 492
CALI: B0402LC03 # 3

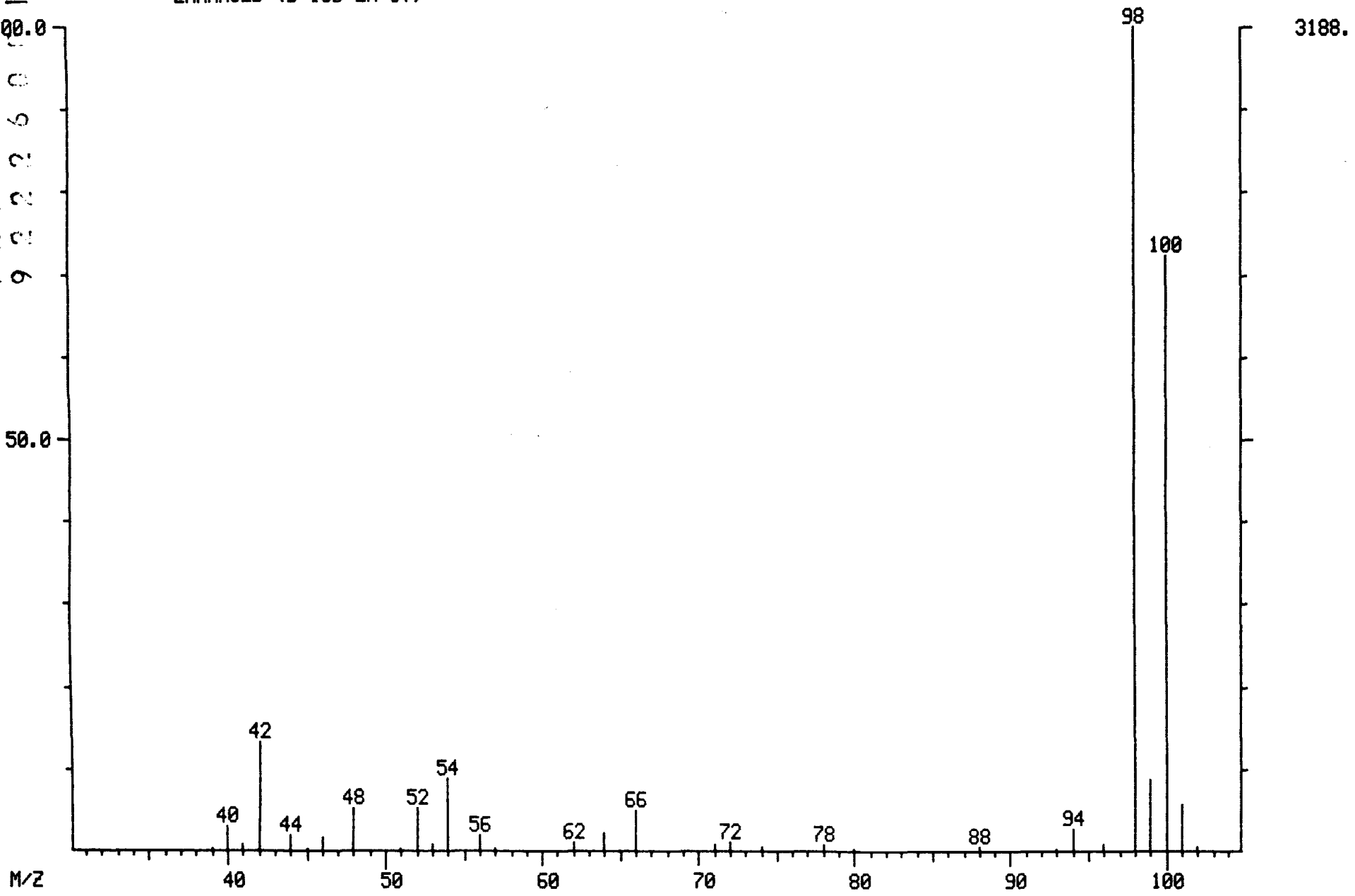
BASE M/Z: 114
RIC: 9503.



MASS SPECTRUM
04/02/91 10:41:00 + 11:11
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 #839
CALI: B0402LC03 #3

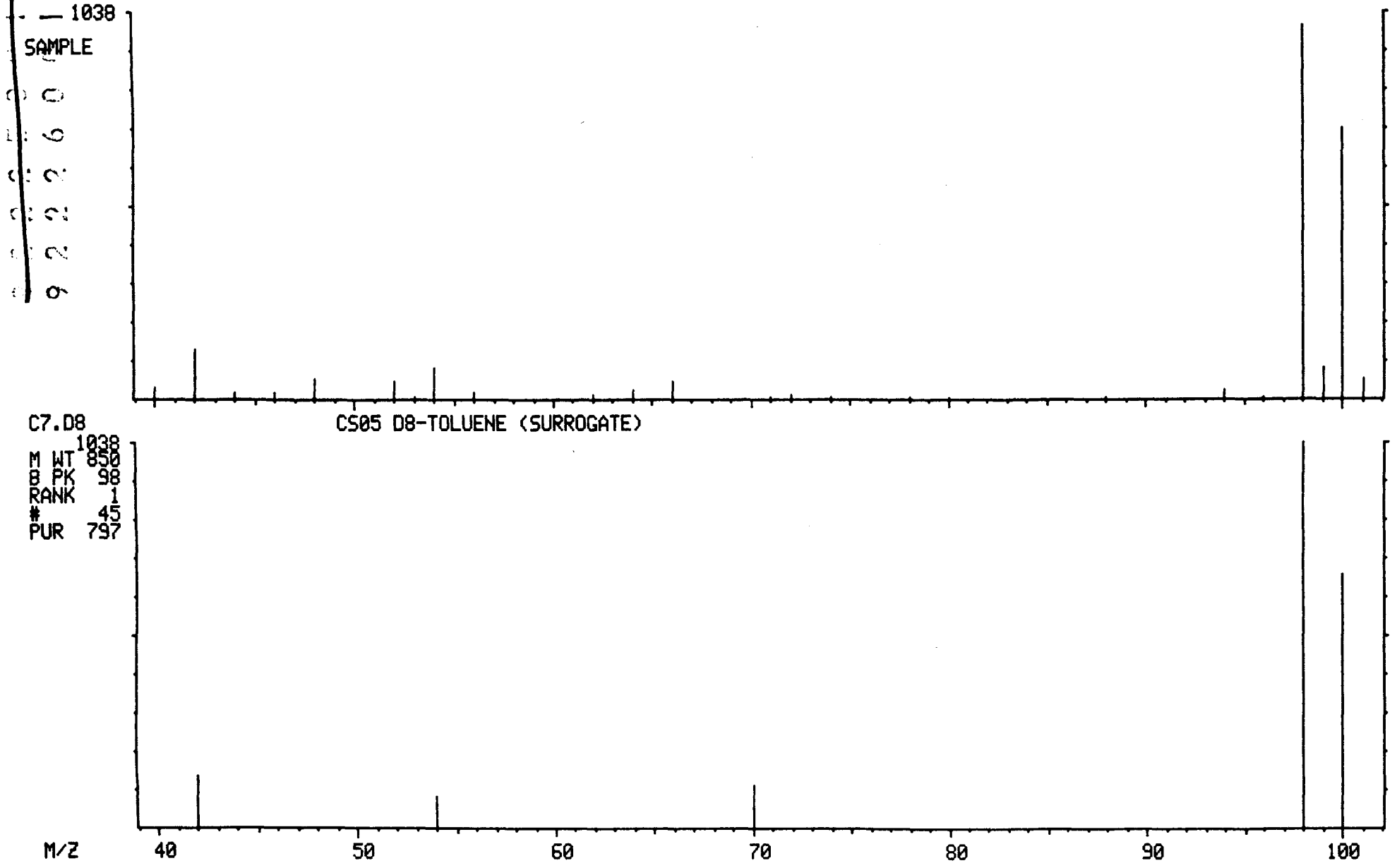
BASE M/Z: 98
RIC: 7904.



LIBRARY SEARCH
04/02/91 10:41:00 + 11:11
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 # 839
CALI: B0402LC03 # 3

BASE M/Z: 98
RIC: 7815.

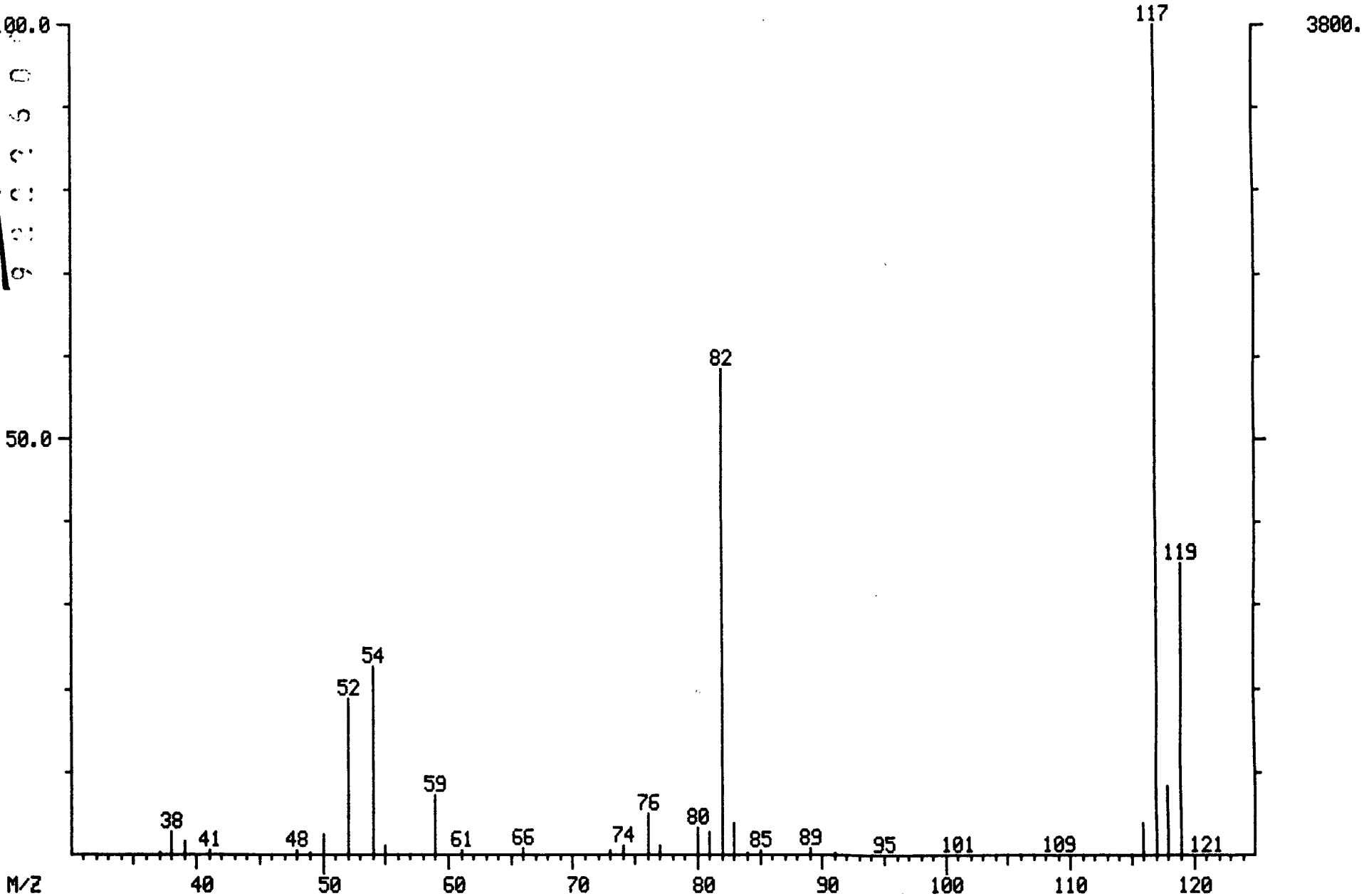


MASS SPECTRUM
04/02/91 10:41:00 + 17:29
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 #1311
CALI: B0402LC03 #3

BASE M/Z: 117
RIC: 10848.

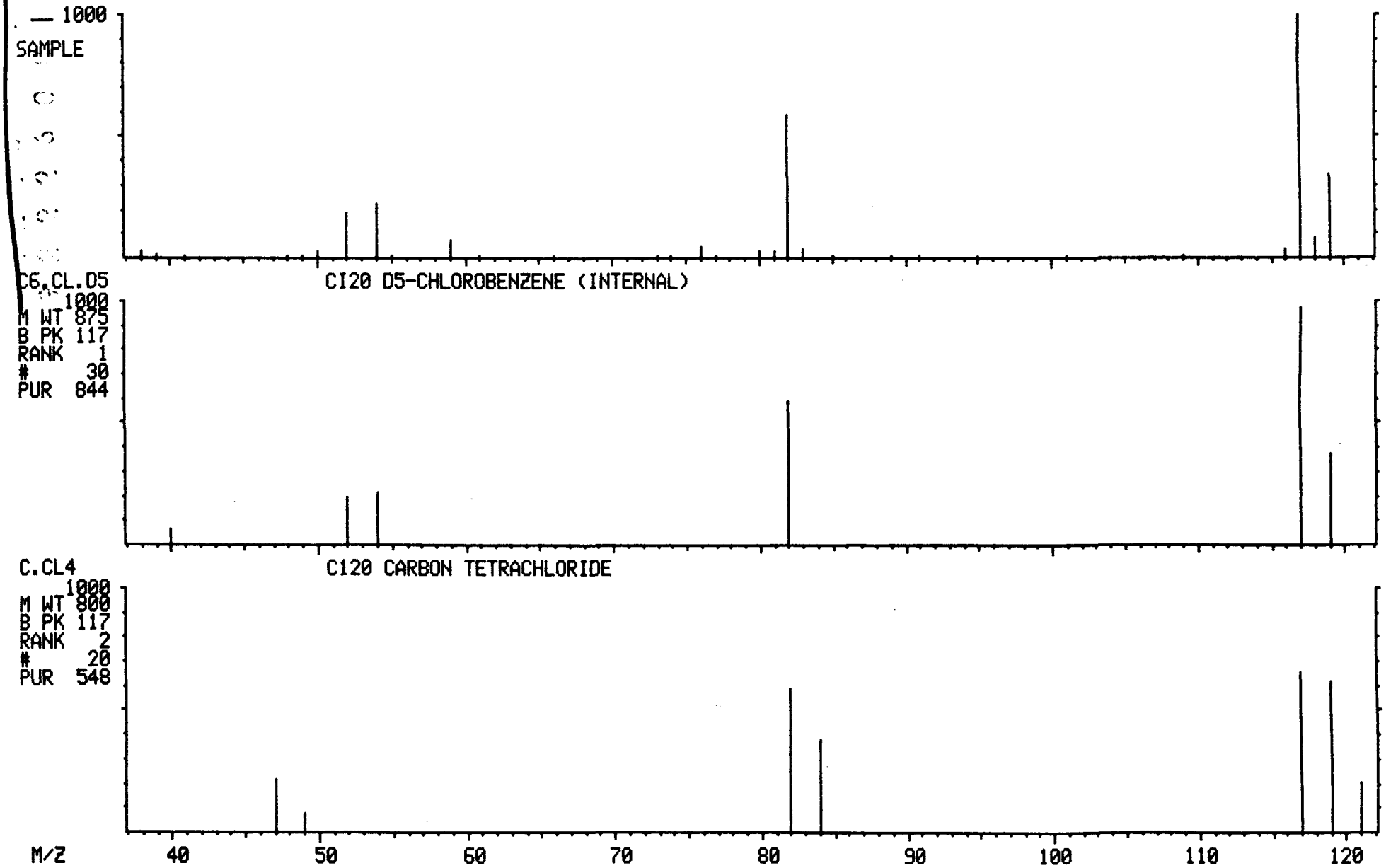
958C00



LIBRARY SEARCH
04/02/91 10:41:00 + 17:29
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 #1311
CALI: B0402LC03 # 3

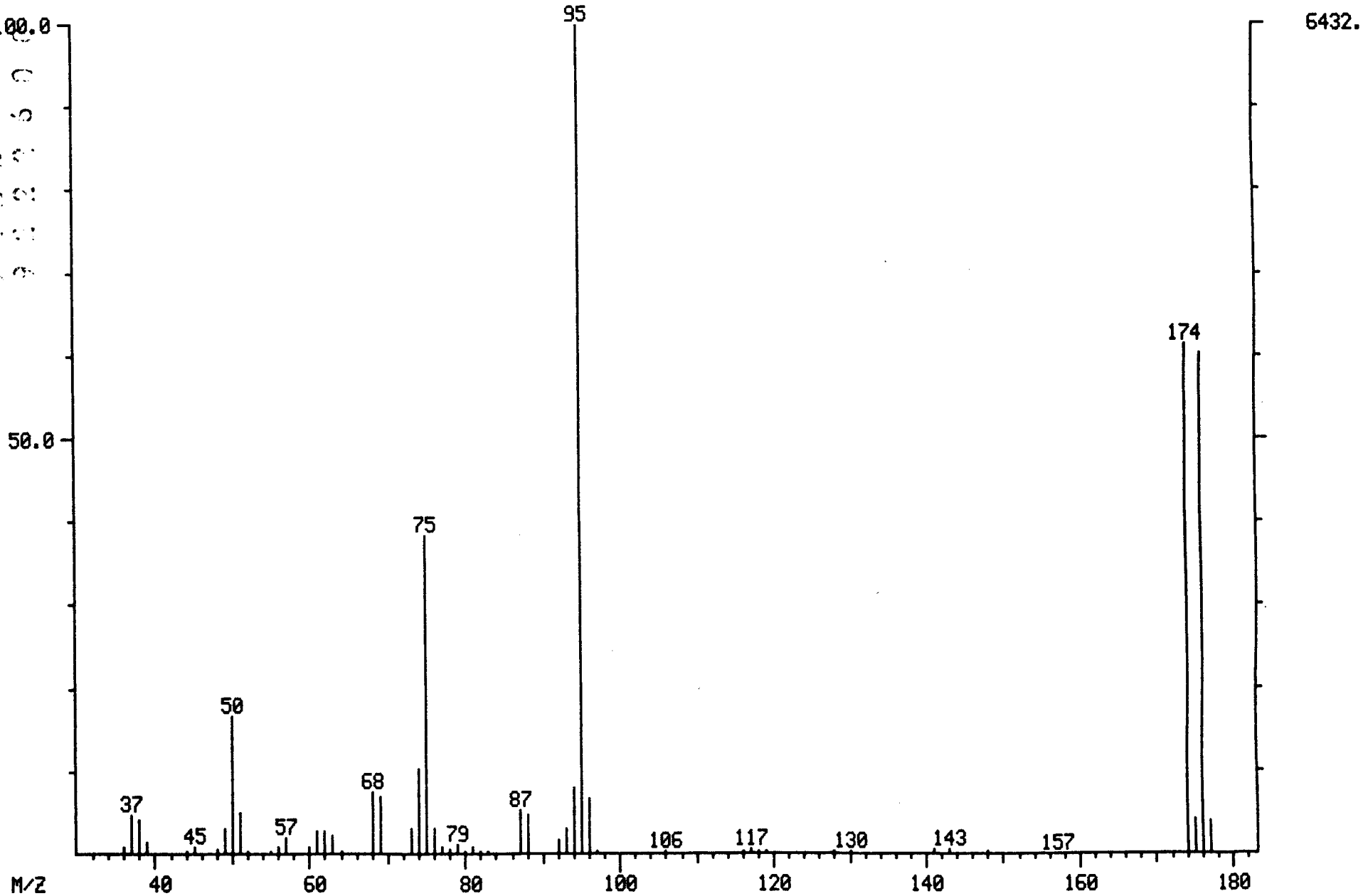
BASE M/Z: 117
RIC: 10831.



MASS SPECTRUM
04/02/91 10:41:00 + 21:58
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 #1648
CALI: B0402LC03 #3

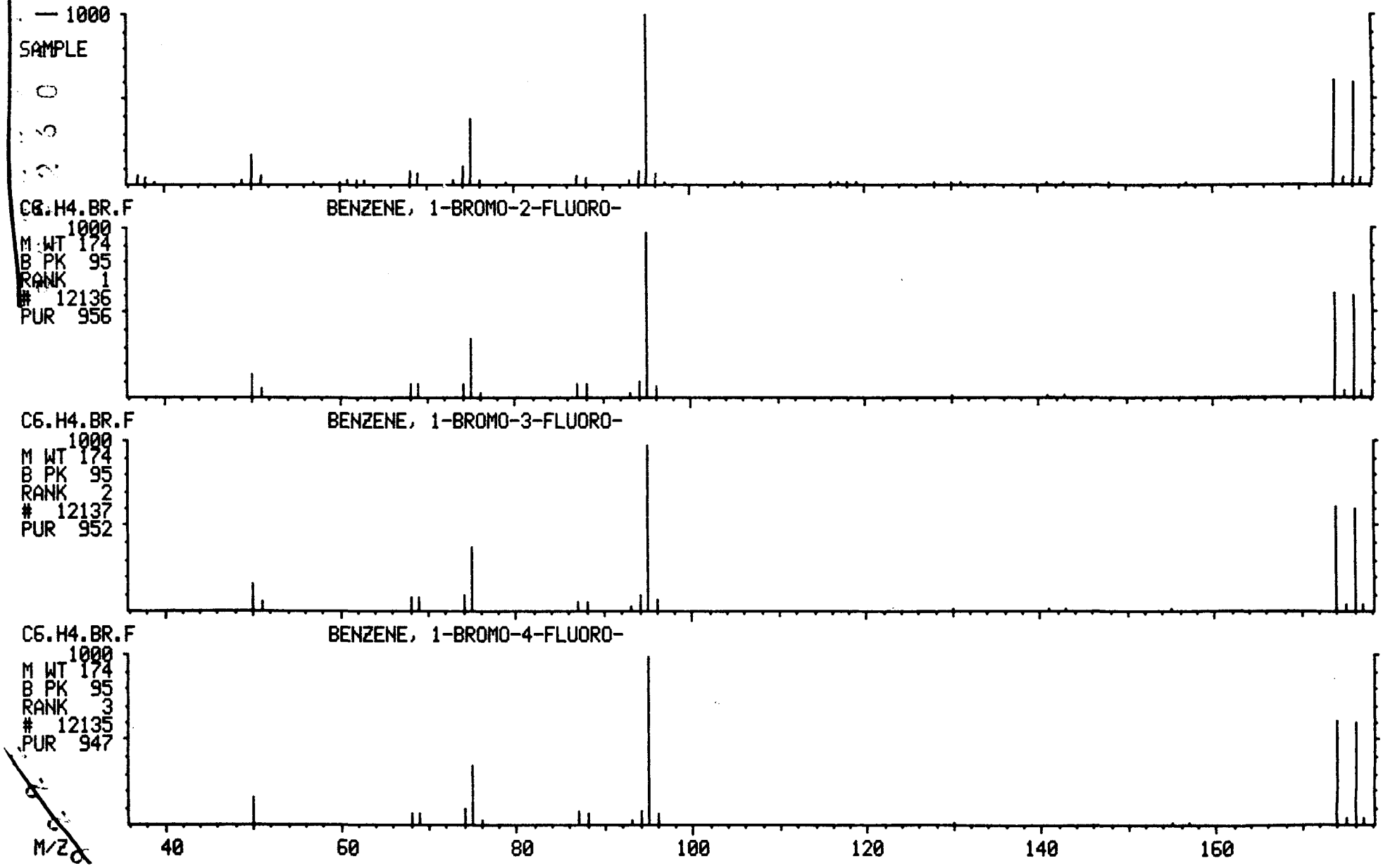
BASE M/Z: 95
RIC: 24768.



LIBRARY SEARCH
04/02/91 10:41:00 + 21:58
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 #1648
CALI: B0402LC03 # 3

BASE M/Z: 95
RIC: 24223.



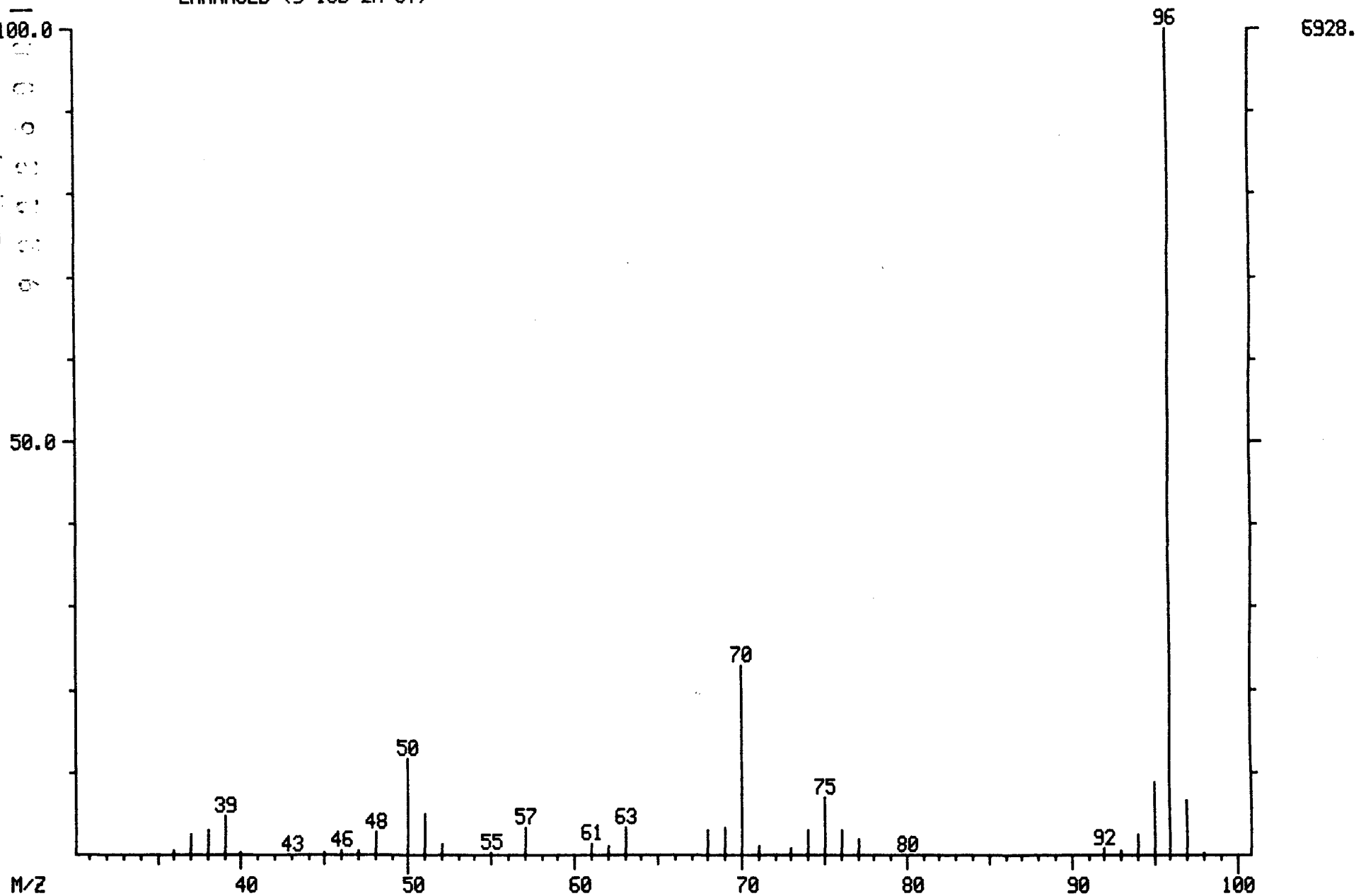
NON-TARGET COMPOUND SPECTRA

000850

MASS SPECTRUM
04/02/91 10:41:00 + 6:10
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
GC TEMP: 34 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 #462
CALI: B0402LC03 #3

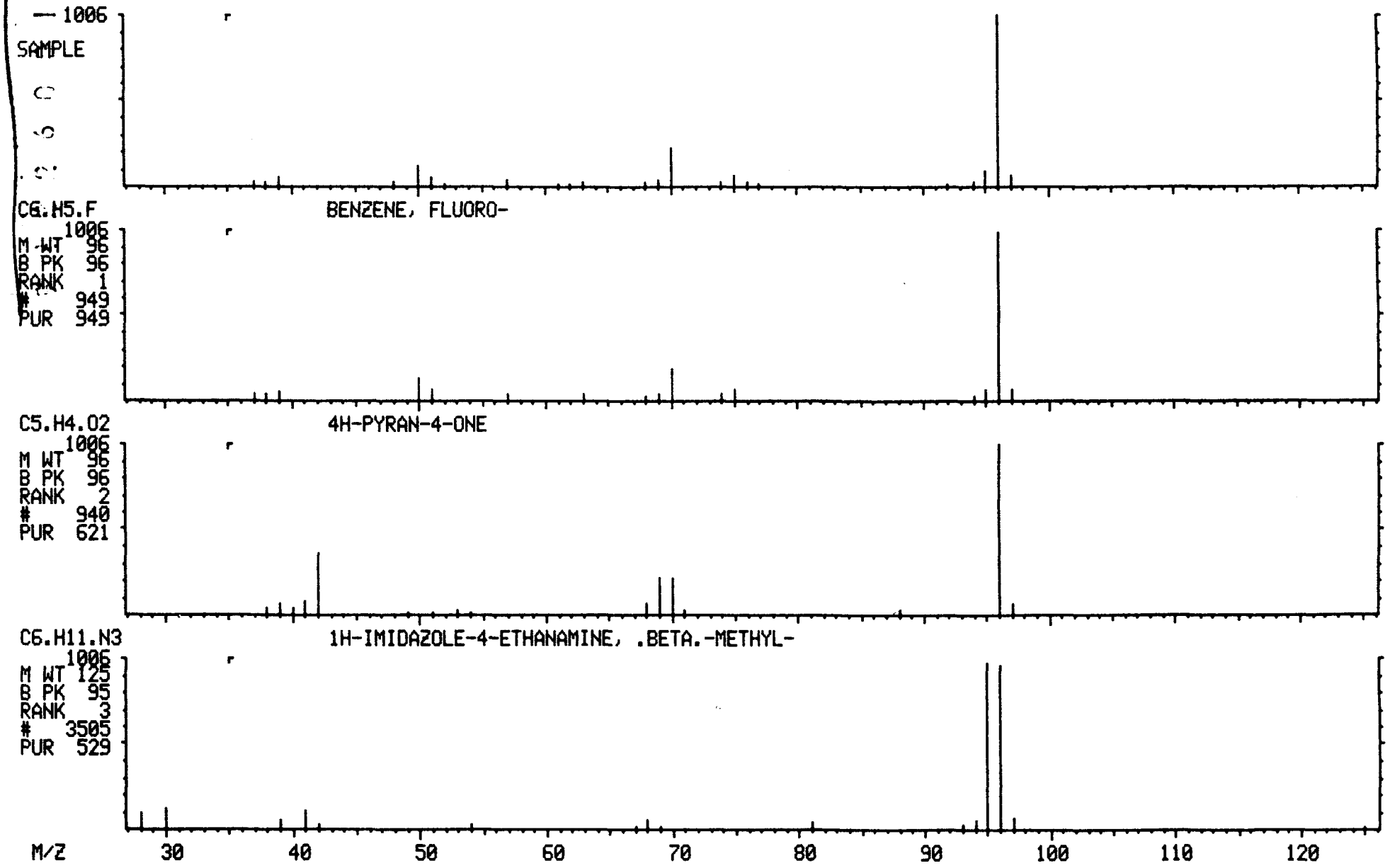
BASE M/Z: 96
RIC: 14512.



LIBRARY SEARCH
04/02/91 10:41:00 + 6:10
SAMPLE: WATER BLANK, 5ML+SUR+INT
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0402LC03 # 462
CALI: B0402LC03 # 3

BASE M/Z: 96
RIC: 14127.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKSM

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: 040391BLK

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0403LC03

Level: (low/med) MED Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 04/03/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

9222600153 9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	620	U
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	620	U
75-35-4	1,1-Dichloroethene	620	U
75-34-3	1,1-Dichloroethane	620	U
540-59-0	1,2-Dichloroethene (total)	620	U
67-66-3	Chloroform	620	U
107-06-2	1,2-Dichloroethane	620	U
78-93-3	2-Butanone	1200	U
71-55-6	1,1,1-Trichloroethane	620	U
56-23-5	Carbon Tetrachloride	620	U
108-05-4	Vinyl Acetate	1200	U
75-27-4	Bromodichloromethane	620	U
78-87-5	1,2-Dichloropropane	620	U
10061-01-5	cis-1,3-Dichloropropene	620	U
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	620	U
79-00-5	1,1,2-Trichloroethane	620	U
71-43-2	Benzene	620	U
10061-02-6	trans-1,3-Dichloropropene	620	U
75-25-2	Bromoform	620	U
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	620	U
79-34-5	1,1,2,2-Tetrachloroethane	620	U
108-88-3	Toluene	620	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	620	U
100-42-5	Styrene	620	U
1330-20-7	Xylene (total)	620	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKSM

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: 040391BLK

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0403LC03

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 04/03/91

Column (pack/cap) WIDE Dilution Factor: 1.0

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

9222601014

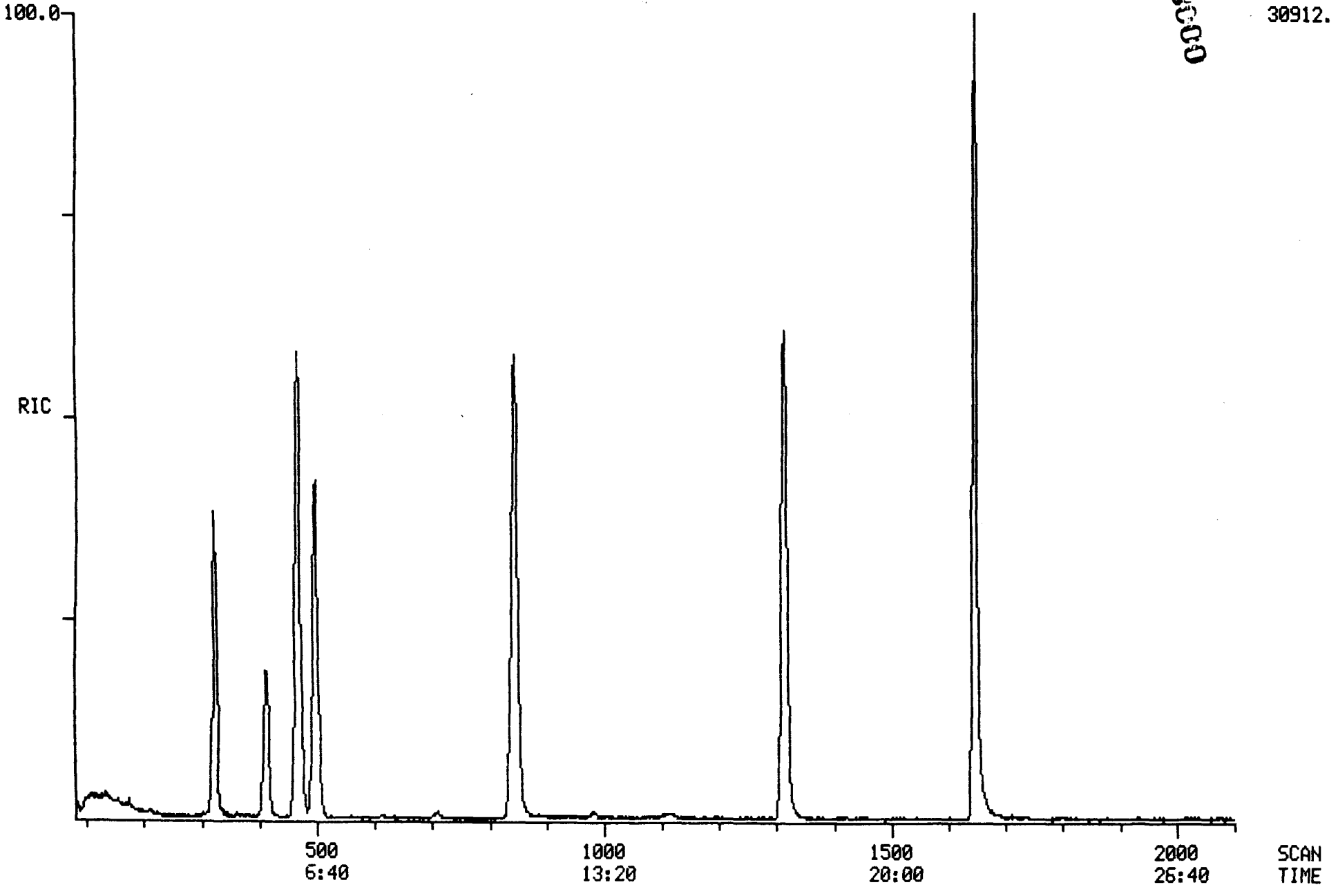
000864

VBLKSM

RIC
04/03/91 10:42:00
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0403LC03 #1
CALI: B0403LC03 #3

SCANS 80 TO 2100

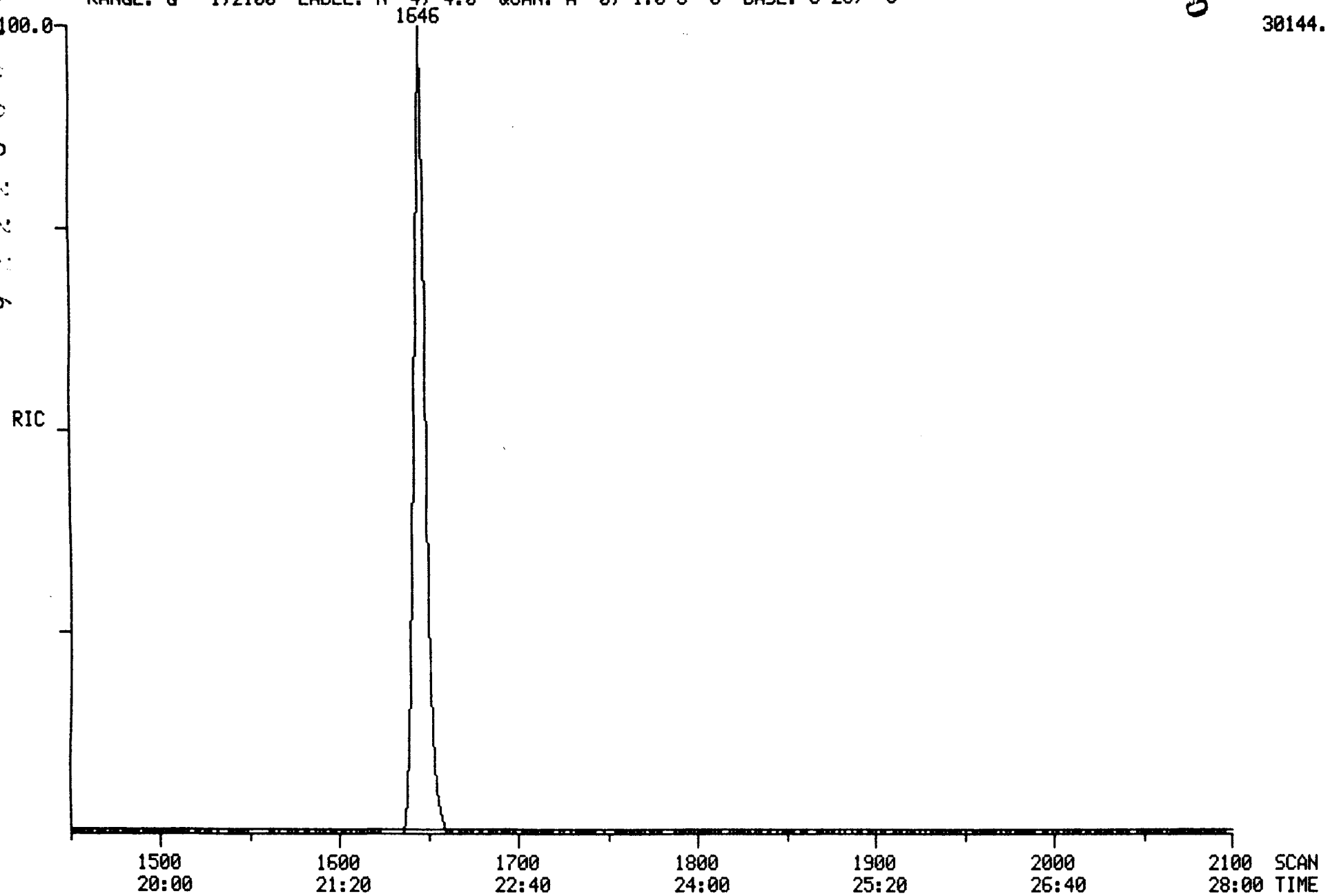


TCA FINISHED, 10 FOUND
FINISHED AT: 4/03/91 16:32:19

RIC
04/03/91 10:42:00
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N -4, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0403LC03 #1
CALI: B0403LC03 #3

SCANS 1450 TO 2100



4/3/91 10:42:55 SCAN 1 OF 2100
Acquisition started

Acquire
04/03/91 10:42:00 + 0:02
Sample: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
Conds.: LC, DB-624
Formula:
Submitted by:

Run 0:B0403LC03
Free sectors: 5820
Instrument: 5100
Analyst: LC

Acquiring
Scan: 2 of 2100
Weight: 0.004
Acct. No:

*** GC descriptor: LC ***

GC temperature: 29 DegC
Elapsed time : 0: 7 min

Injector: 150 DegC
Interface: 150 DegC

Seq. #	Temp (DegC)	Rate (C/min)	Time (minutes) period	total
1	30- 30	-	5.0	5.0
2	30- 52	2.0	11.0	16.0
3	52-130	5.0	15.5	31.5
4	130-130	-	0.4	31.9

Valve times (minutes)

	Open	Close
Sweep/Split	31.9	0.0
Divert	31.9	0.0

*** Scan Parameters ***

Low mass: 35 u
High mass: 400 u

Scan time (s)
Up: 0.75 L*
Down: 0.00 L

Hold time (s)
Top: 0.00
Bottom: 0.05

Cent S/P: 10 Actual: 10
Frag S/P: 10 Actual: 10

Samp int (ms): 0.200
Samp int (ms): 0.200

Peak width: 1000.
Inten/ion: 2

Min peak width: 3
ADC threshold: 2

Min frag width %: 80
Baseline: 0

Min area: 50

MODE: EI (+) Centroid + Temp

Interface number	0	
Sub-interface number	0	
# of acqu buffers	16	
Instrument type	Q	
Full scale mass	812	u
Zero scale mass	1	u
Intensity/ion	2	
Peak width	1000.	mmu
Offset at low mass	0	mmu
Offset at high mass	0	mmu
Voltage settling time(ms)	4	

Current instrument parameters.

	Positive ion mode	Negative ion mode
Resolution (high)	131.00	128.00
Resolution (low)	129.00	128.00
Ion energy	2.75	-4.00
Ion programming	9.02	-4.00
Lens voltage	-50.20	50.20
Extractor voltage	3.53	not used

Electron multiplier voltage: -1471.
Electrometer Range: 10 ^-7

003848

4/3/91 11:11:01
Acquisition completed
Scans 1 to 2100 centroid

Mode	Scans	Secs	out of	%	Peaks per scan per second		
Centroid	2100	8.3	1680.0	0.5	23539.	11.	14.

92226001545

003869

PROCEDURE: TCA DIAGNOSTIC REPORT 4/03/91 11:11:52
DATA FILE: B0403LC03
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	3	3	0	CLSRT1/CLSTC1
1	1	1	0	13	3	3	10	CLSRT2/CLSTC2
1	1	1	0	16	4	6	113	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 10 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >							< SAT >	< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS		M/Z	TOP	DELTA	PEAKS
1	CS	1	316	322	322	.	1	978	.		128	322	.	1
2	CS	2	98	87	.	.	.	.	.		50	.	.	.
3	CS	3	109	98	.	.	.	.	.		94	.	.	.
4	CS	4	101	90	.	.	.	.	.		62	.	.	.
5	CS	5	109	98	.	.	.	.	.		64	94	.	1
6	CS	6	179	174	174	.	1	926	.		84	174	.	1
7	CS	7	154	147	147	.	3	881	.		43	.	.	.
8	CS	8	157	150	.	.	.	.	.		76	149	.	1
9	CS	9	146	138	.	.	.	.	.		96	.	.	.
10	CS	10	231	230	.	.	.	.	.		63	.	.	.
11	CS	12	331	338	.	.	.	.	.		83	340	.	1
12	CS	13	344	352	.	.	.	.	.		97	.	.	.
13	CS	14	117	107	.	.	.	.	.		101	110	.	2
14	CS	15	196	192	.	.	.	.	.		96	.	.	.
15	CS	16	289	293	.	.	.	.	.		96	.	.	.
16	CS	17	478	496	496	.	1	994	.		114	496	.	1
17	CS	18	409	424	.	.	.	.	.		62	.	.	.
18	CS	19	299	308	308	.	3	983	.		72	309	1	1
19	CS	20	365	377	.	.	.	.	.		117	.	.	.
20	CS	21	240	246	.	.	.	.	.		43	.	.	.
21	CS	22	650	677	.	.	.	.	.		83	.	.	.
22	CS	23	569	592	.	.	.	.	.		63	.	.	.
23	CS	24	772	805	.	.	.	.	.		75	.	.	.
24	CS	25	518	538	.	.	.	.	.		130	.	.	.
25	CS	27	398	412	.	.	.	.	.		78	411	.	1
26	CS	28	755	787	.	.	.	.	.		106	.	.	.
27	CS	29	396	410	410	.	1	972	.		65	410	.	1
28	CS	43	1559	1631	.	.	.	.	.		173	.	.	.
29	CS	30	1309	1312	1312	.	1	997	.		117	1312	.	1
30	CS	26	1132	1140	.	.	.	.	.		129	.	.	.
31	CS	31	1014	1024	.	.	.	.	.		97	1027	.	1
32	CS	32	961	972	.	.	.	.	.		75	.	.	.
33	CS	33	1139	1146	.	.	.	.	.		43	1150	.	1
34	CS	34	847	860	.	.	.	.	.		43	.	.	.
35	CS	35	1013	1023	.	.	.	.	.		164	.	.	.
36	CS	36	1721	1717	.	.	.	.	.		83	1716	.	2
37	CS	37	850	863	864	1	3	915	.		91	860	-4	2
38	CS	38	1318	1322	.	.	.	.	.		112	1323	.	2
39	CS	39	1369	1372	.	.	.	.	.		106	.	.	.
40	CS	40	1522	1522	.	.	.	.	.		104	.	.	.
41	CS	41	1406	1408	.	.	.	.	.		106	1404	.	2
42	CS	42	1512	1512	.	.	.	.	.		106	.	.	.
43	CS	44	1648	1645	1646	1	1	990	.		95	1646	.	1
44	CS	45	831	844	844	.	2	994	.		98	844	.	1

000870

Quantitation Report File: B0403LC03

Data: B0403LC03.TI
04/03/91 10:42:00
Sample: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C010 CHLOROMETHANE
3	C015 BROMOMETHANE
4	C020 VINYL CHLORIDE
5	C025 CHLOROETHANE
6	C030 METHYLENE CHLORIDE
7	C035 ACETONE
8	C040 CARBON DISULFIDE
9	C045 1,1-DICHLOROETHYLENE
10	C050 1,1-DICHLOROETHANE
11	C060 CHLOROFORM
12	C115 1,1,1-TRICHLOROETHANE
13	C001 TRICHLOROFLUOROMETHANE
14	C053 TRANS-1,2-DICHLOROETHYLENE
15	C002 CIS-1,2-DICHLOROETHYLENE
16	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
17	C065 1,2-DICHLOROETHANE
18	C110 2-BUTANONE (MEK)
19	C120 CARBON TETRACHLORIDE
20	C125 VINYL ACETATE
21	C130 BROMODICHLOROMETHANE
22	C140 1,2-DICHLOROPROPANE
23	C143 CIS-1,3-DICHLOROPROPENE
24	C150 TRICHLOROETHYLENE
25	C165 BENZENE
26	C175 2-CHLOROETHYLVINYL ETHER
27	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
28	C180 BROMOFORM
29	CI20 D5-CHLOROBENZENE (INTERNAL)
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C172 TRANS-1,3-DICHLOROPROPENE
33	C210 2-HEXANONE (MBK)
34	C205 4-METHYL-2-PENTANONE (MIBK)
35	C220 TETRACHLOROETHYLENE
36	C225 1,1,2,2-TETRACHLOROETHANE
37	C230 TOLUENE
38	C235 CHLOROBENZENE
39	C240 ETHYLBENZENE
40	C245 STYRENE
41	C250 M&P-XYLENES
42	C250 O-XYLENE
43	CS10 BROMOFLUOROBENZENE (SURROGATE)
44	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	322	4:18	1	1.000	A BB	10863.	50.000 UG/G	11.24
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	64	94	1:15	1	0.292	A BB	12.	~~0.106 UG~~/G	0.02
6	84	174	2:19	1	0.540	A BB	212.	~~0.615 UG~~/G	0.14
7	NOT FOUND								
8	76	149	1:59	1	0.463	A BB	81.	~~0.076 UG~~/G	0.02
9	NOT FOUND								
10	NOT FOUND								
11	83	340	4:32	1	1.056	A BB	241.	~~0.354 UG~~/G	0.08
12	NOT FOUND								
13	101	110	1:28	1	0.342	A*BB	197.	~~1.396 UG~~/G	0.31
14	NOT FOUND								
15	NOT FOUND								
16	114	496	6:37	16	1.000	A BB	53617.	50.000 UG/G	11.24
17	NOT FOUND								
18	72	309	4:07	16	0.623	A BB	99.	2.033 UG/G	0.46
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	78	411	5:29	16	0.829	A BB	271.	~~0.237 UG~~/G	0.05
26	NOT FOUND								
27	65	410	5:28	16	0.827	A BB	14767.	95.436 %	21.45
28	NOT FOUND								
29	117	1312	17:30	29	1.000	A BB	58882.	50.000 UG/G	11.24
30	NOT FOUND								
31	97	1027	13:42	29	0.783	A BB	24.	~~0.055 UG~~/G	0.01
32	NOT FOUND								
33	43	1150	15:20	29	0.877	A BB	303.	~~0.630~~ UG/G	0.14
34	NOT FOUND								
35	NOT FOUND								
36	83	1716	22:53	29	1.308	A*BB	52.	~~0.070 UG~~/G	0.02
37	91	860	11:28	29	0.655	A*BV	571.	~~0.392 UG~~/G	0.09
38	112	1323	17:38	29	1.008	A*BB	85.	~~0.076~~ UG/G	0.02
39	NOT FOUND								
40	NOT FOUND								
41	106	1404	18:43	29	1.070	A*BB	36.	~~0.053 UG~~/G	0.01
42	NOT FOUND								
43	95	1646	21:57	29	1.255	A BB	62184.	105.168 %	23.63
44	98	844	11:15	29	0.643	A BB	69234.	88.388 %	19.86

Quantitation Report File: B0403LC03A

Data: B0403LC03.TI
04/03/91 10:42:00
Sample: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT) * 0.662
Resp. fac. from Library Entry

No	Name
1	BENZENE, FLUORO-

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	RIC	466	6:13	1	1.000	A BB	175649.	66.200	*100.

9 2 2 2 6 0 0 1 5 4 9

TARGET COMPOUND SPECTA

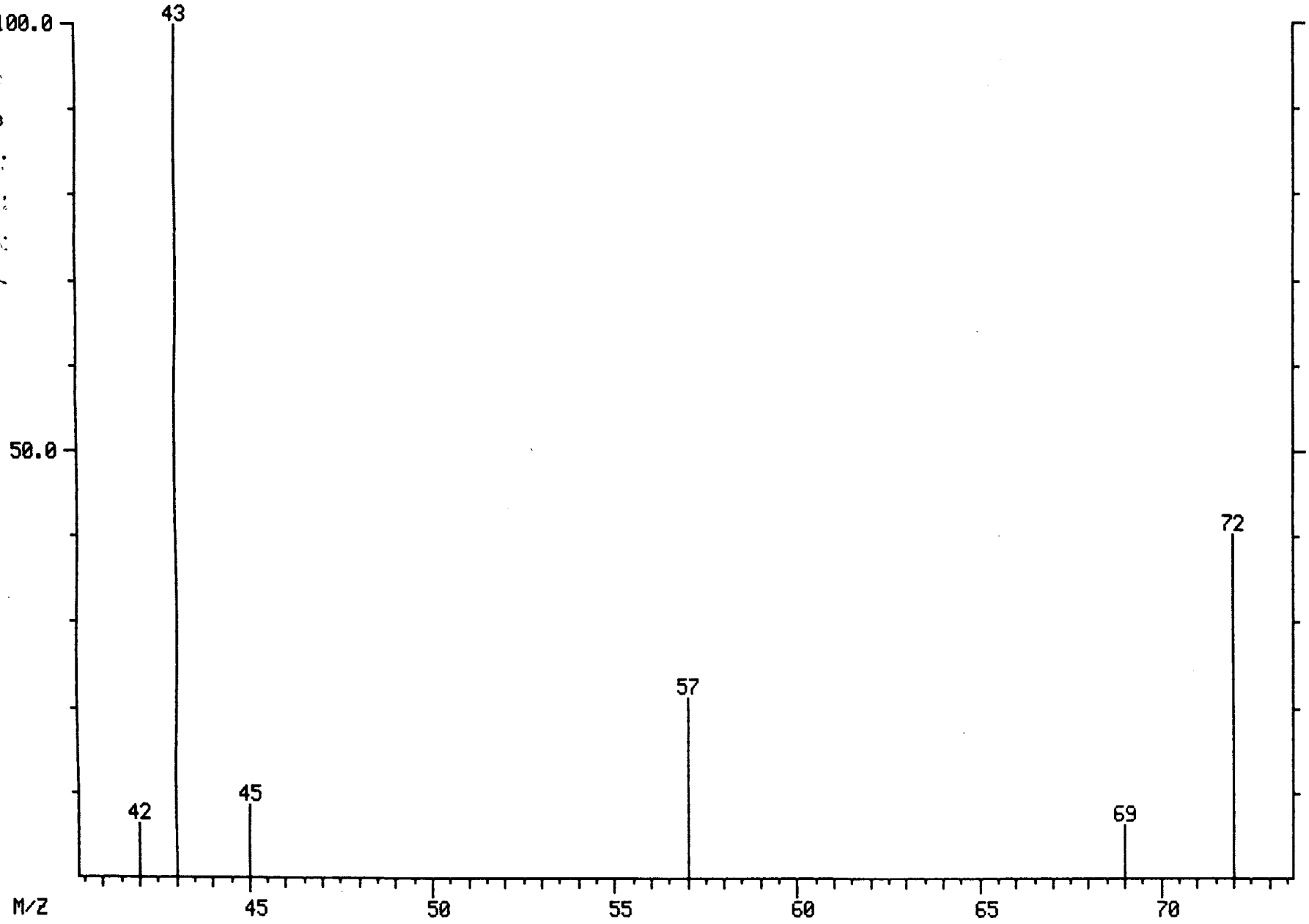
9222260001455

000874

MASS SPECTRUM
04/03/91 10:42:00 + 4:07
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 33 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 #309
CALI: B0403LC03 #3

BASE M/Z: 43
RIC: 86.

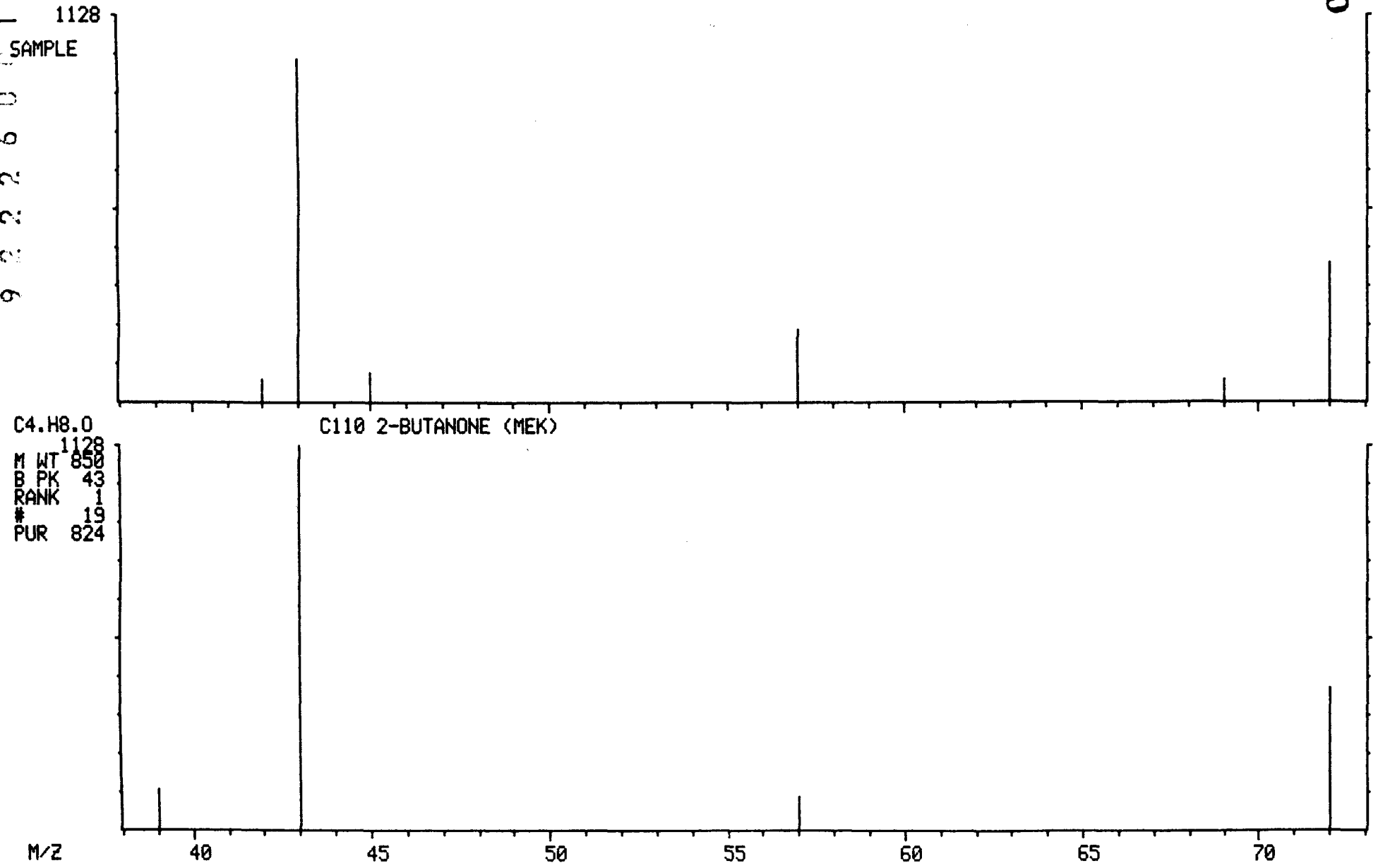


000875

LIBRARY SEARCH
04/03/91 10:42:00 + 4:07
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 # 309
CALI: B0403LC03 # 3

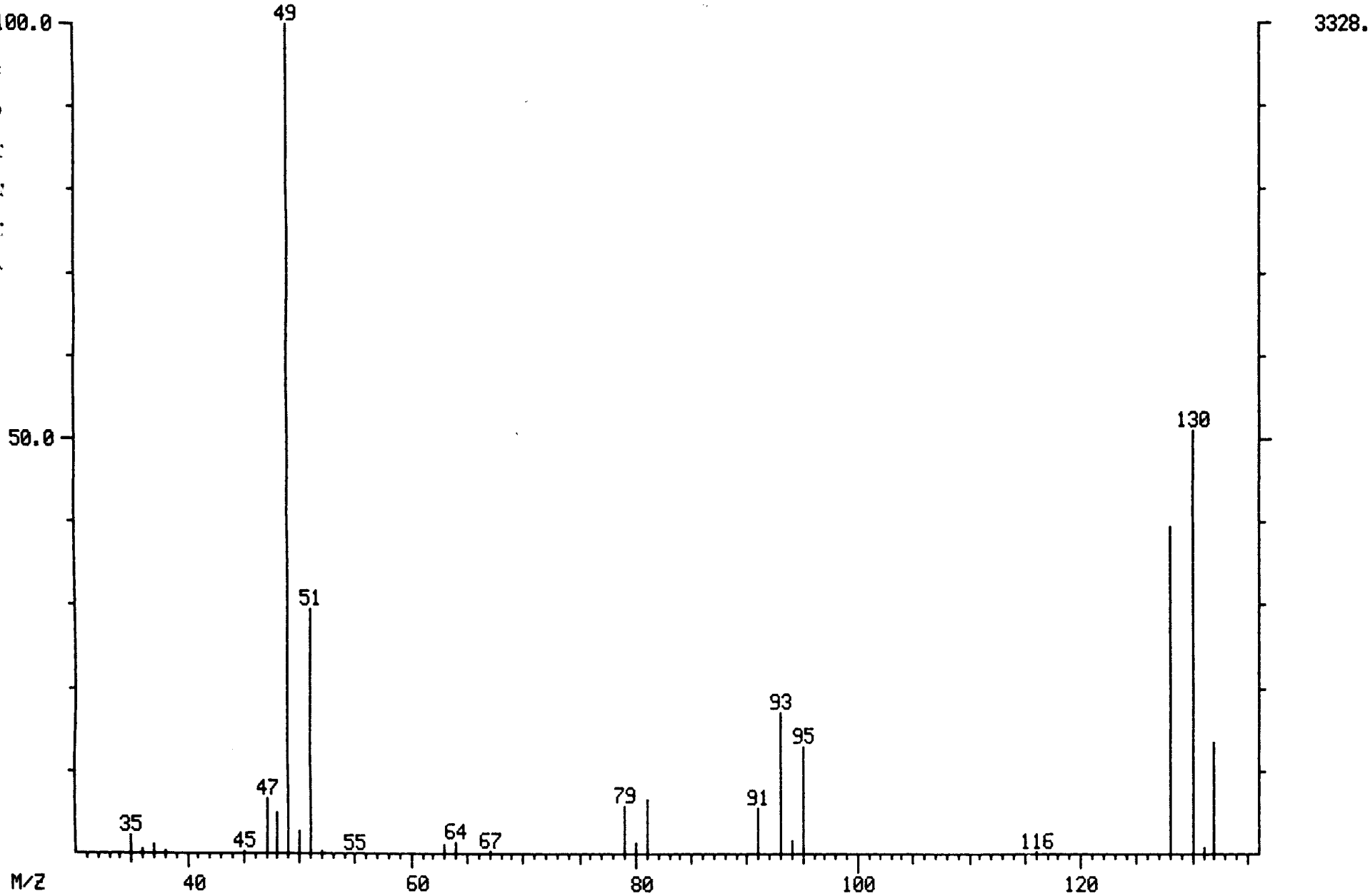
BASE M/Z: 43
RIC: 85.



MASS SPECTRUM
04/03/91 10:42:00 + 4:18
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 33 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 #322
CALI: B0403LC03 #3

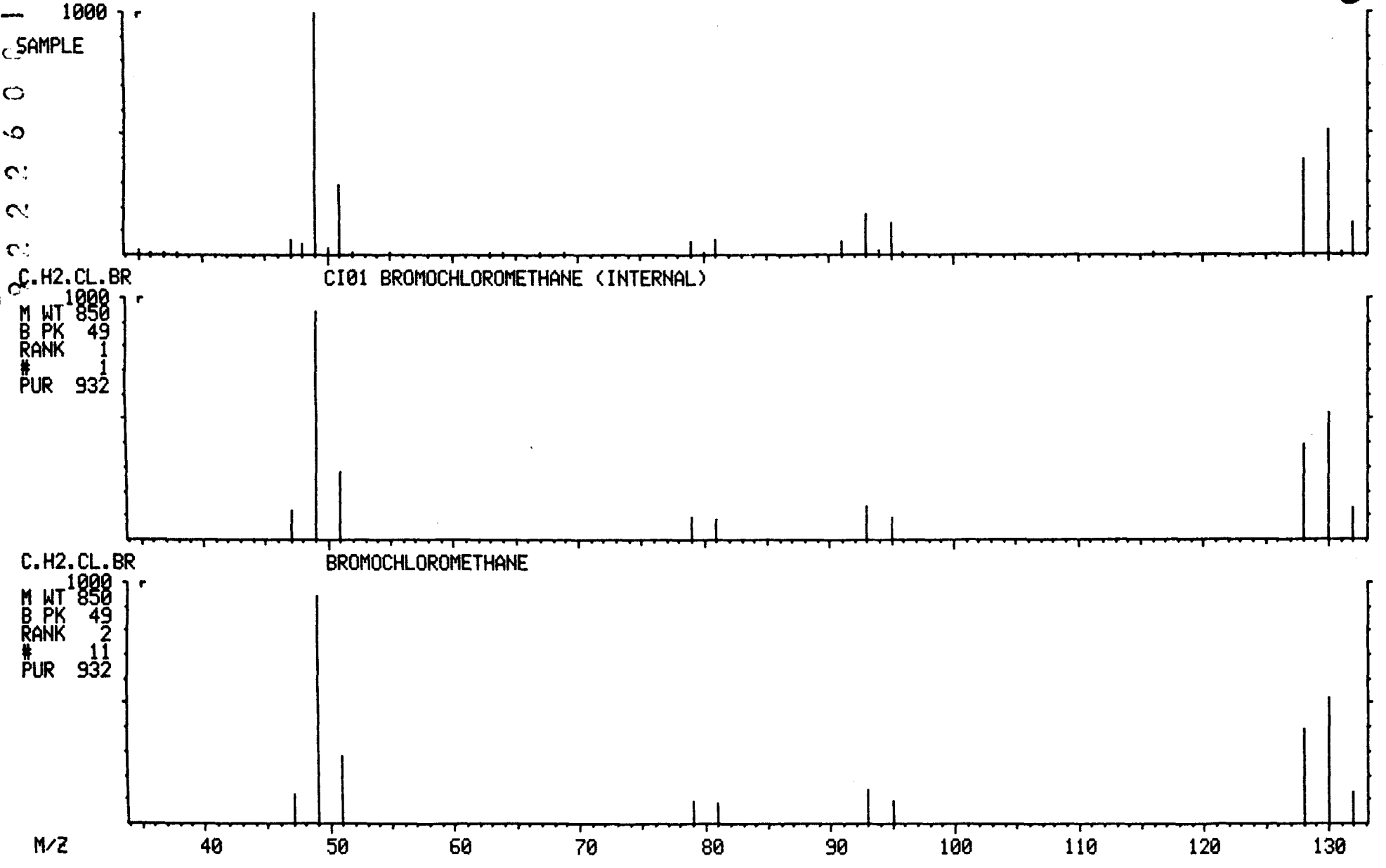
BASE M/Z: 49
RIC: 10224.



LIBRARY SEARCH
04/03/91 10:42:00 + 4:18
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 # 322
CALI: B0403LC03 # 3

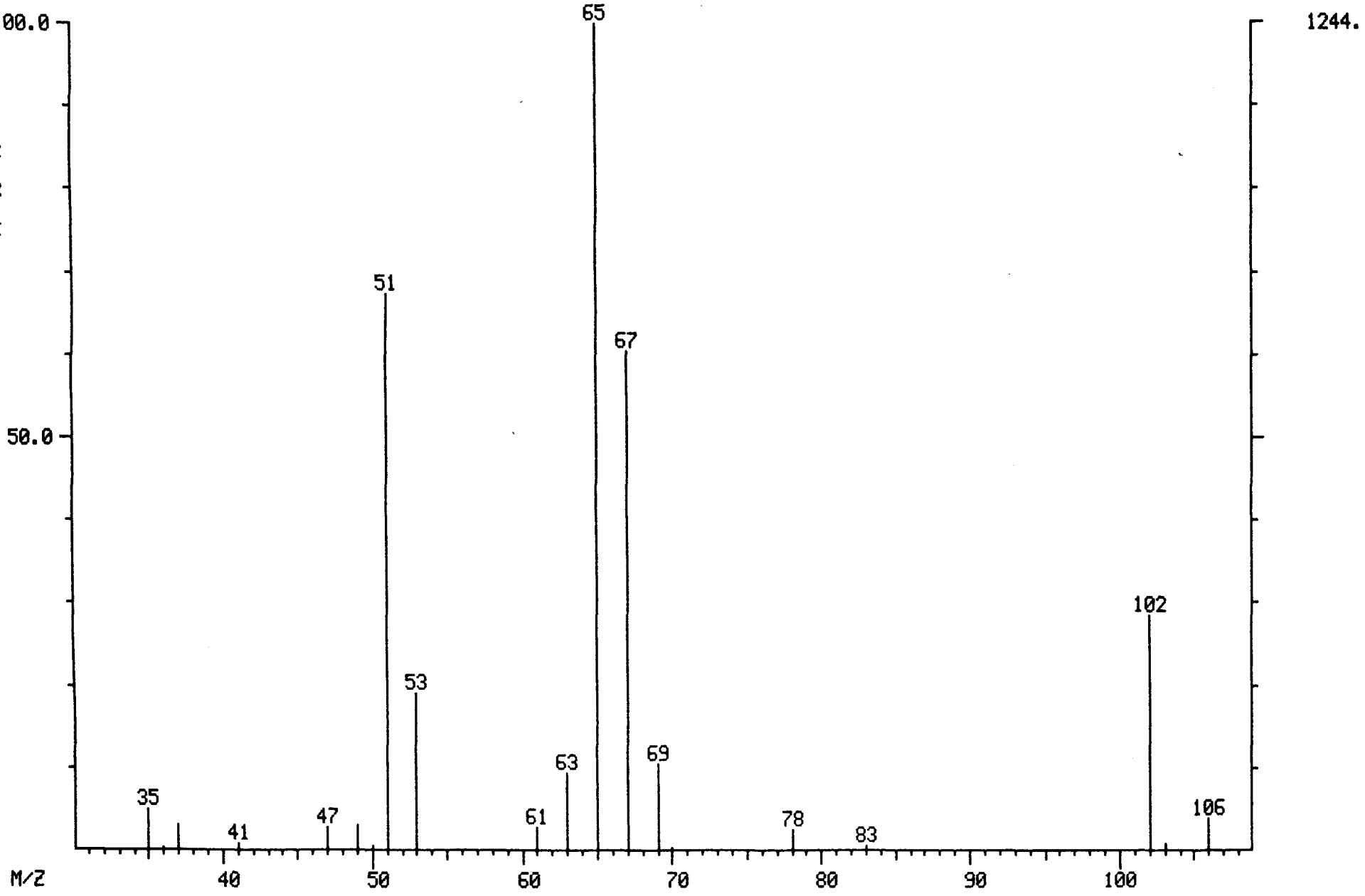
BASE M/Z: 49
RIC: 10223.



MASS SPECTRUM
04/03/91 10:42:00 + 5:28
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 33 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 #410
CALI: B0403LC03 #3

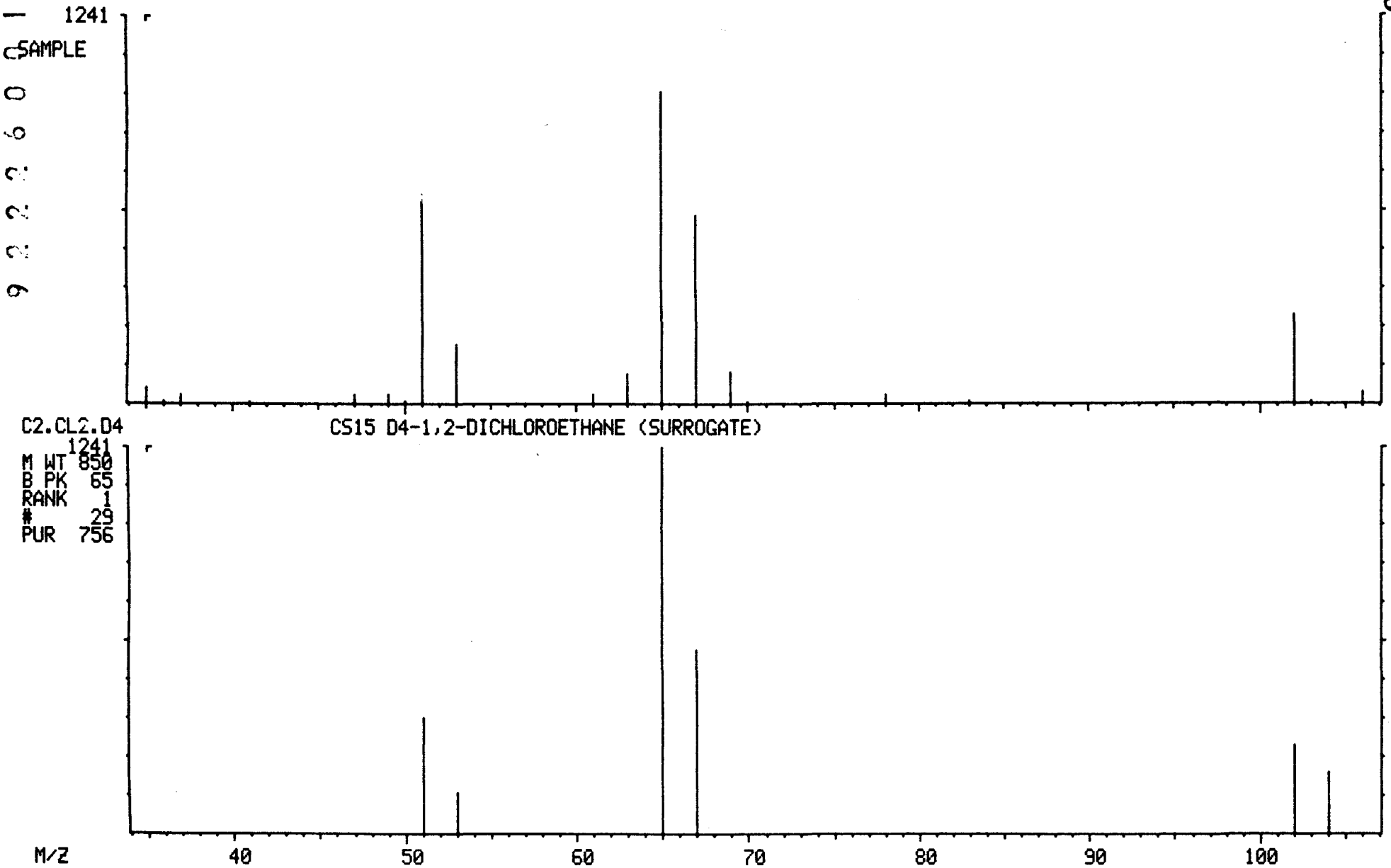
BASE M/Z: 65
RIC: 4012.



LIBRARY SEARCH
04/03/91 10:42:00 + 5:28
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 # 410
CALI: B0403LC03 # 3

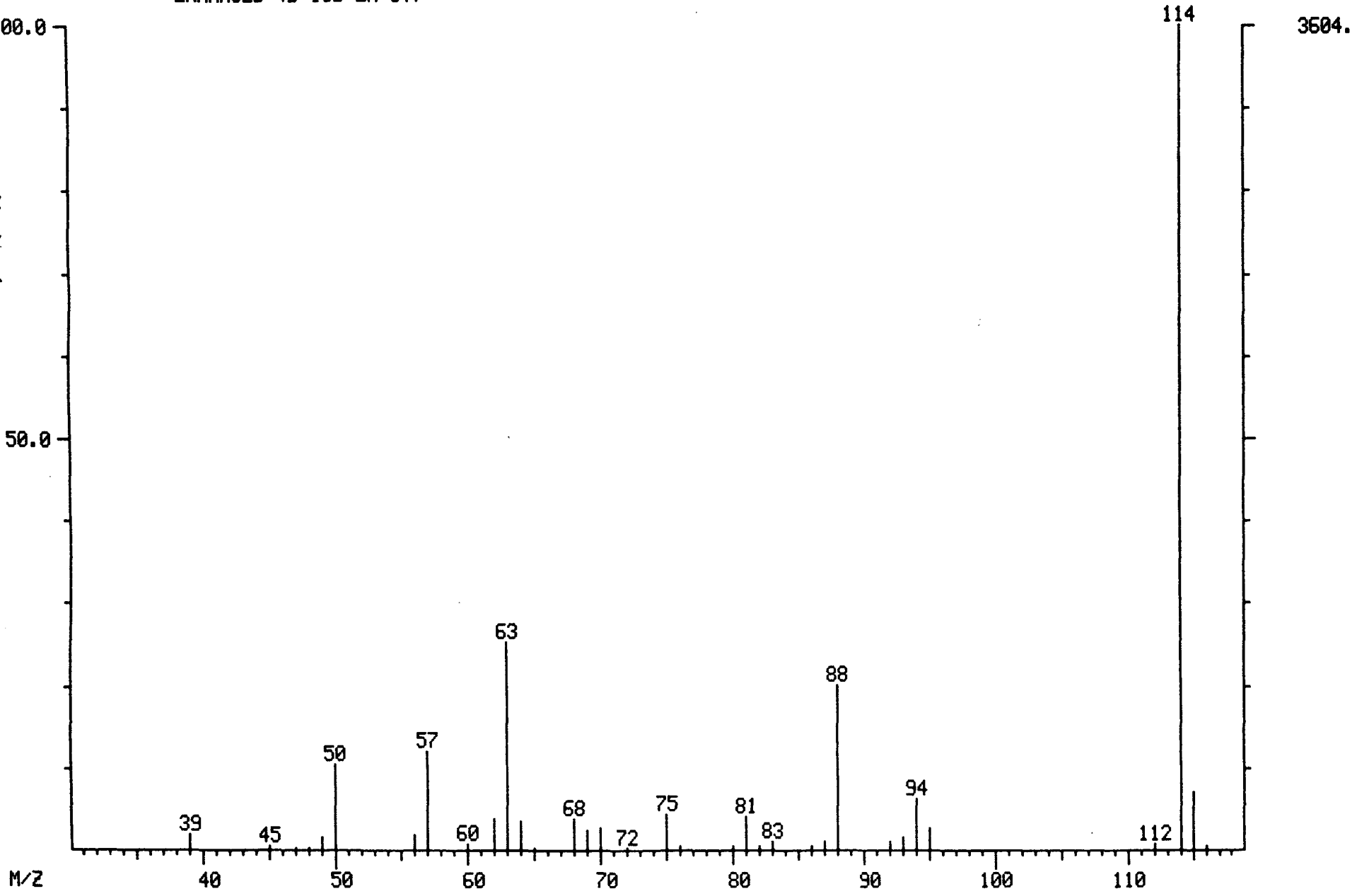
BASE M/Z: 65
RIC: 4011.



MASS SPECTRUM
04/03/91 10:42:00 + 6:37
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 35 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 #496
CALI: B0403LC03 #3

BASE M/Z: 114
RIC: 8176.

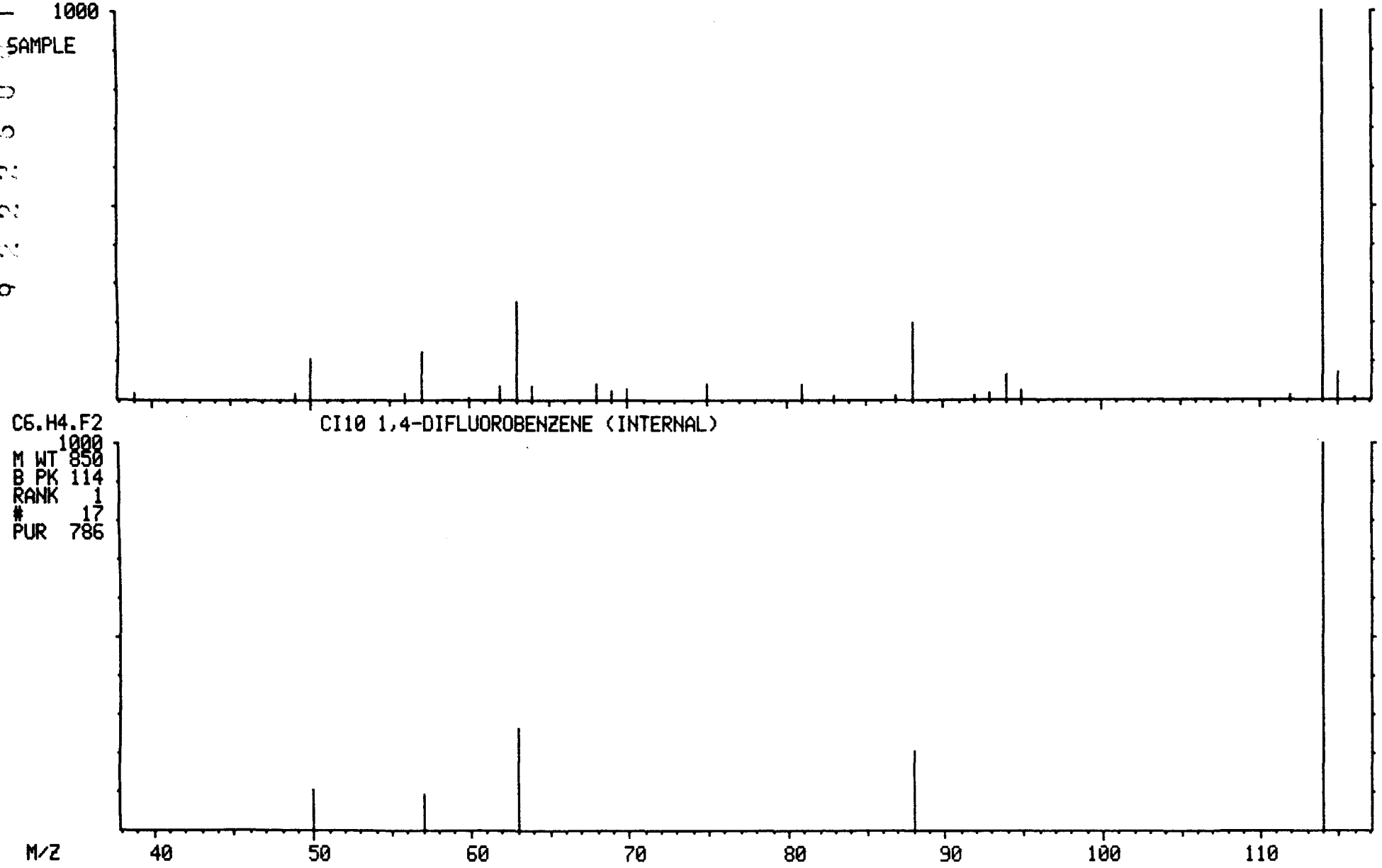


188C00

LIBRARY SEARCH
04/03/91 10:42:00 + 6:37
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 # 496
CALI: B0403LC03 # 3

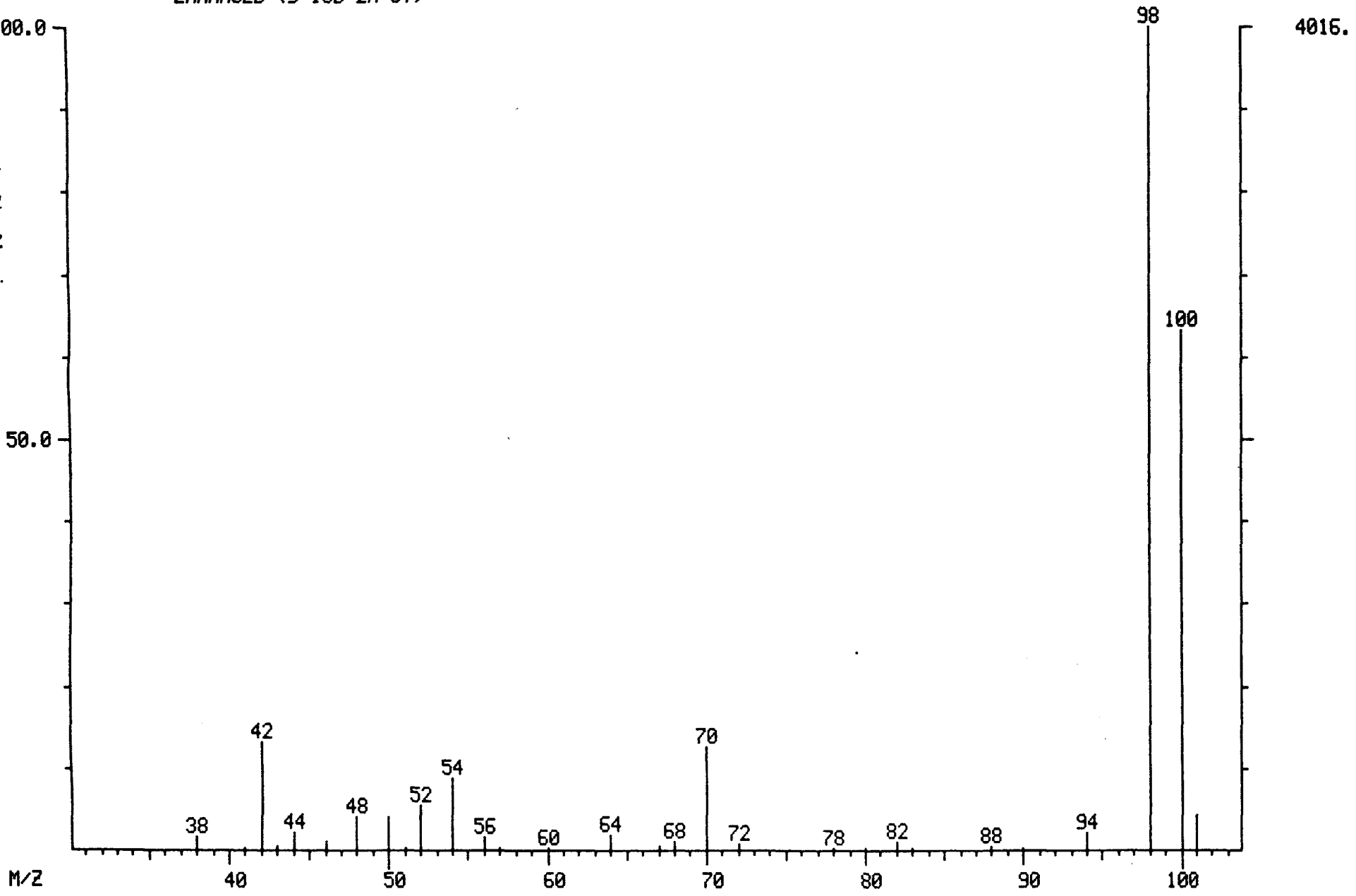
BASE M/Z: 114
RIC: 8007.



MASS SPECTRUM
04/03/91 10:42:00 + 11:15
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 44 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 #844
CALI: B0403LC03 #3

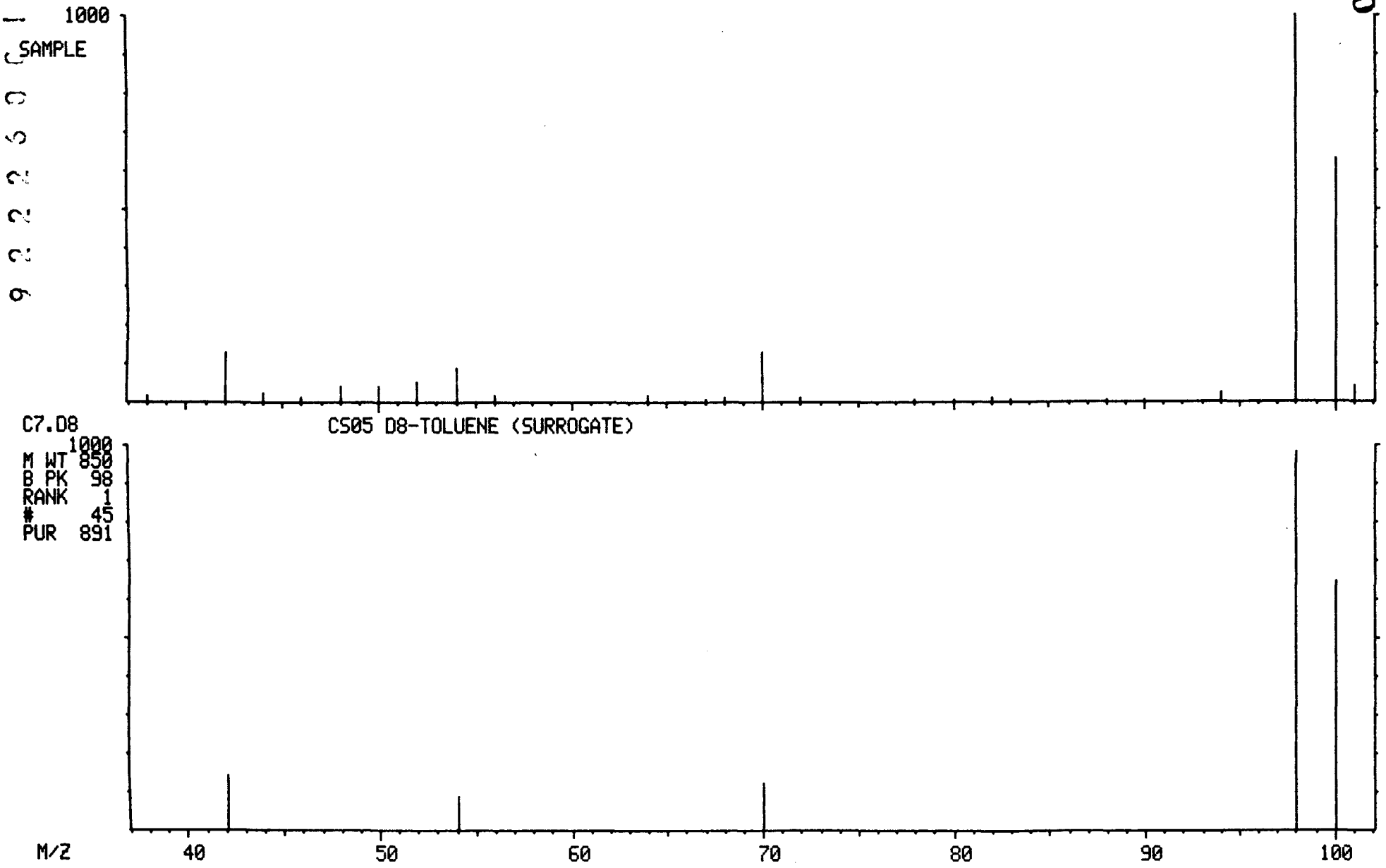
BASE M/Z: 98
RIC: 9424.



LIBRARY SEARCH
04/03/91 10:42:00 + 11:15
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 # 844
CALI: B0403LC03 # 3

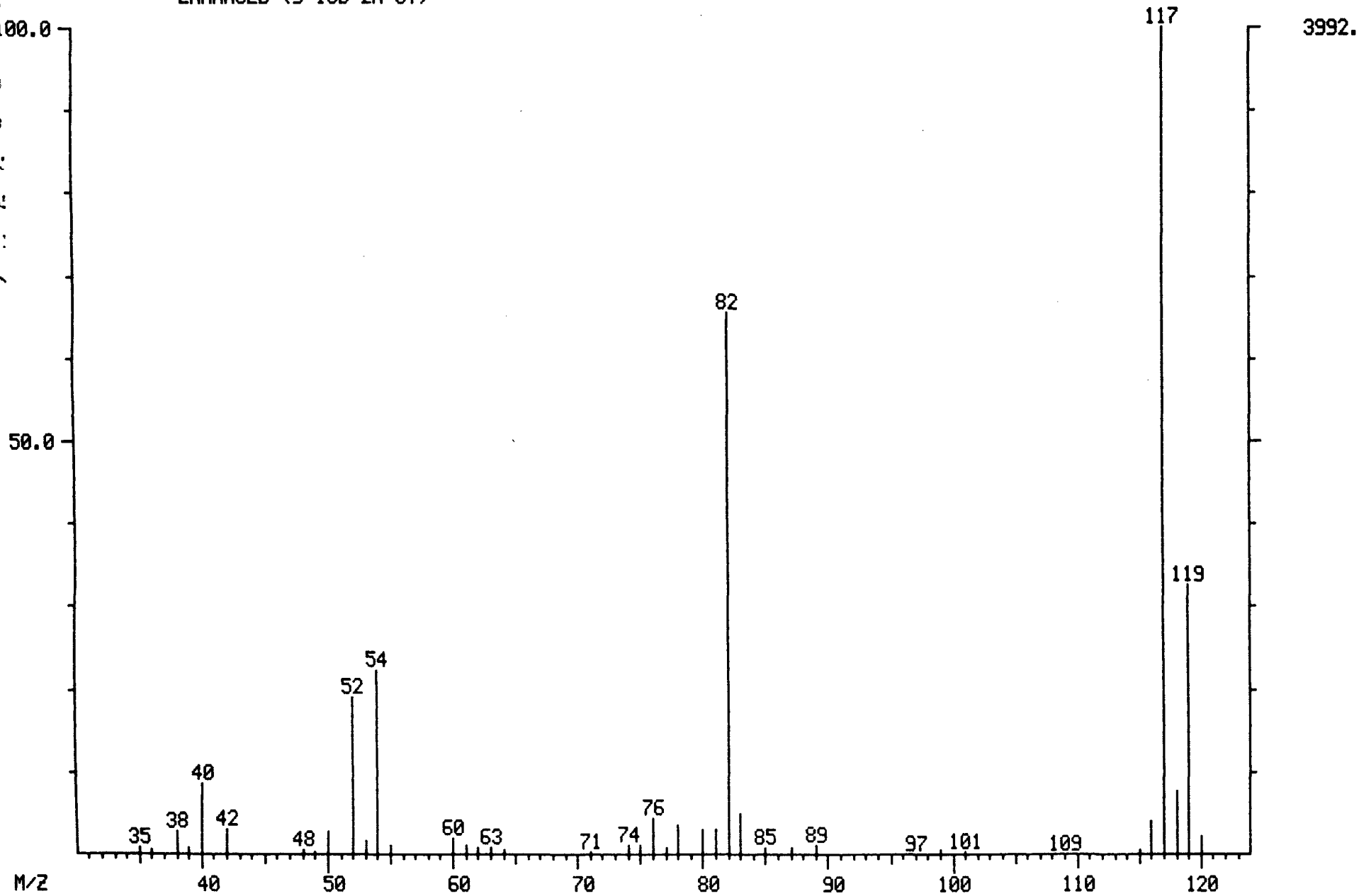
BASE M/Z: 98
RIC: 9359.



MASS SPECTRUM
04/03/91 10:42:00 + 17:30
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 62 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 #1312
CALI: B0403LC03 #3

BASE M/Z: 117
RIC: 12336.

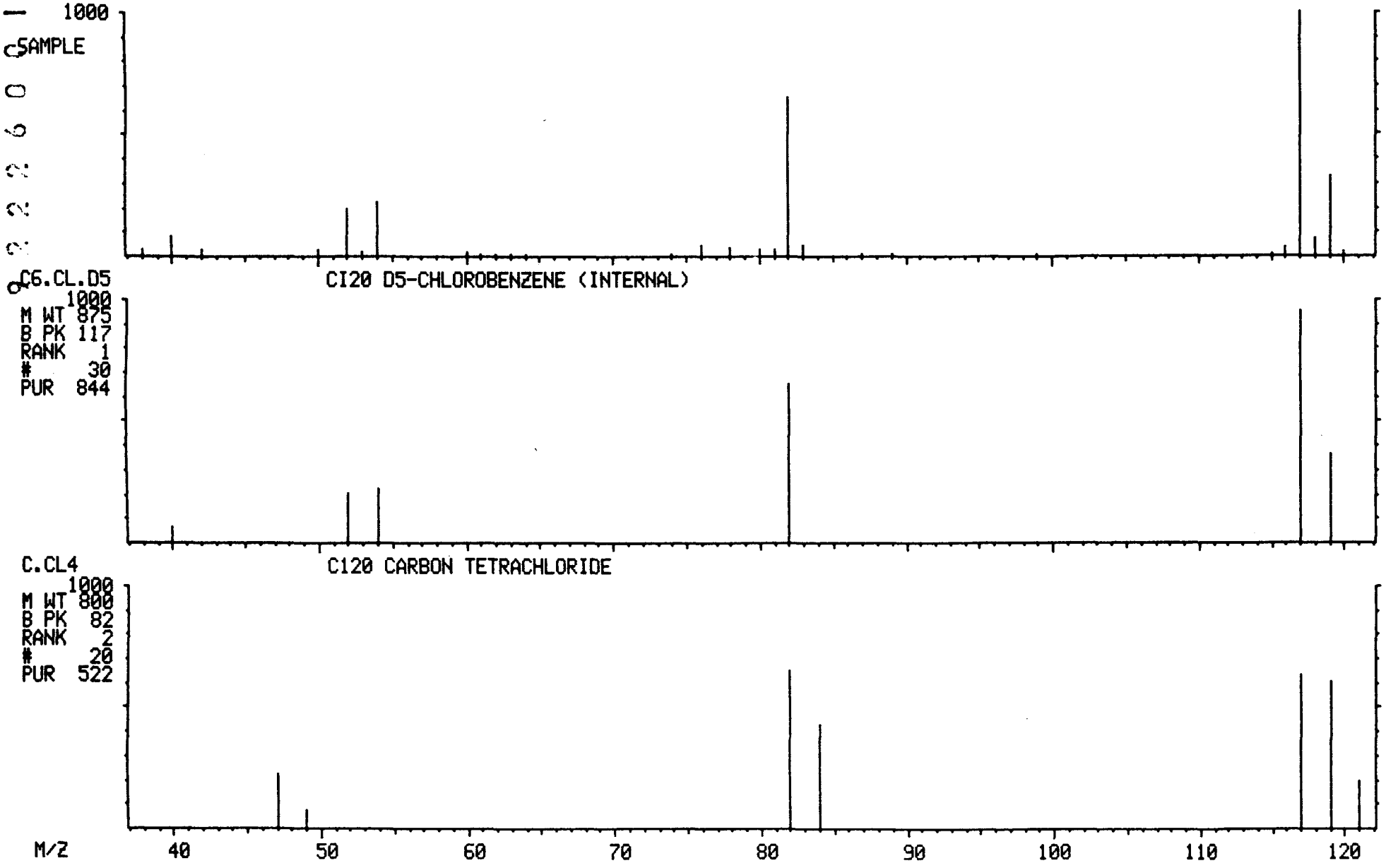


LIBRARY SEARCH
04/03/91 10:42:00 + 17:30
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 #1312
CALI: B0403LC03 # 3

BASE M/Z: 117
RIC: 12031.

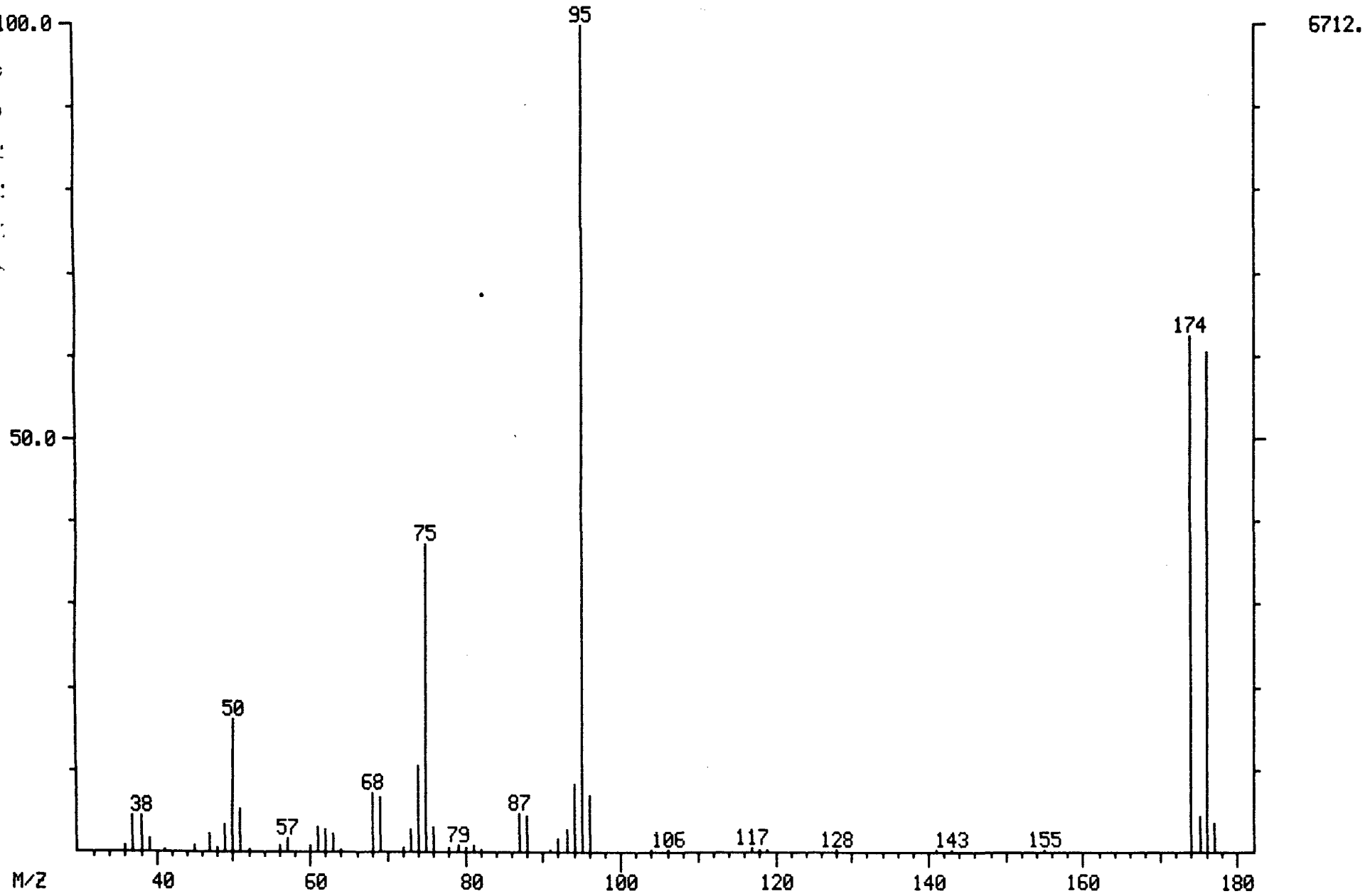
938600



MASS SPECTRUM
04/03/91 10:42:00 + 21:57
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 84 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 #1646
CALI: B0403LC03 #3

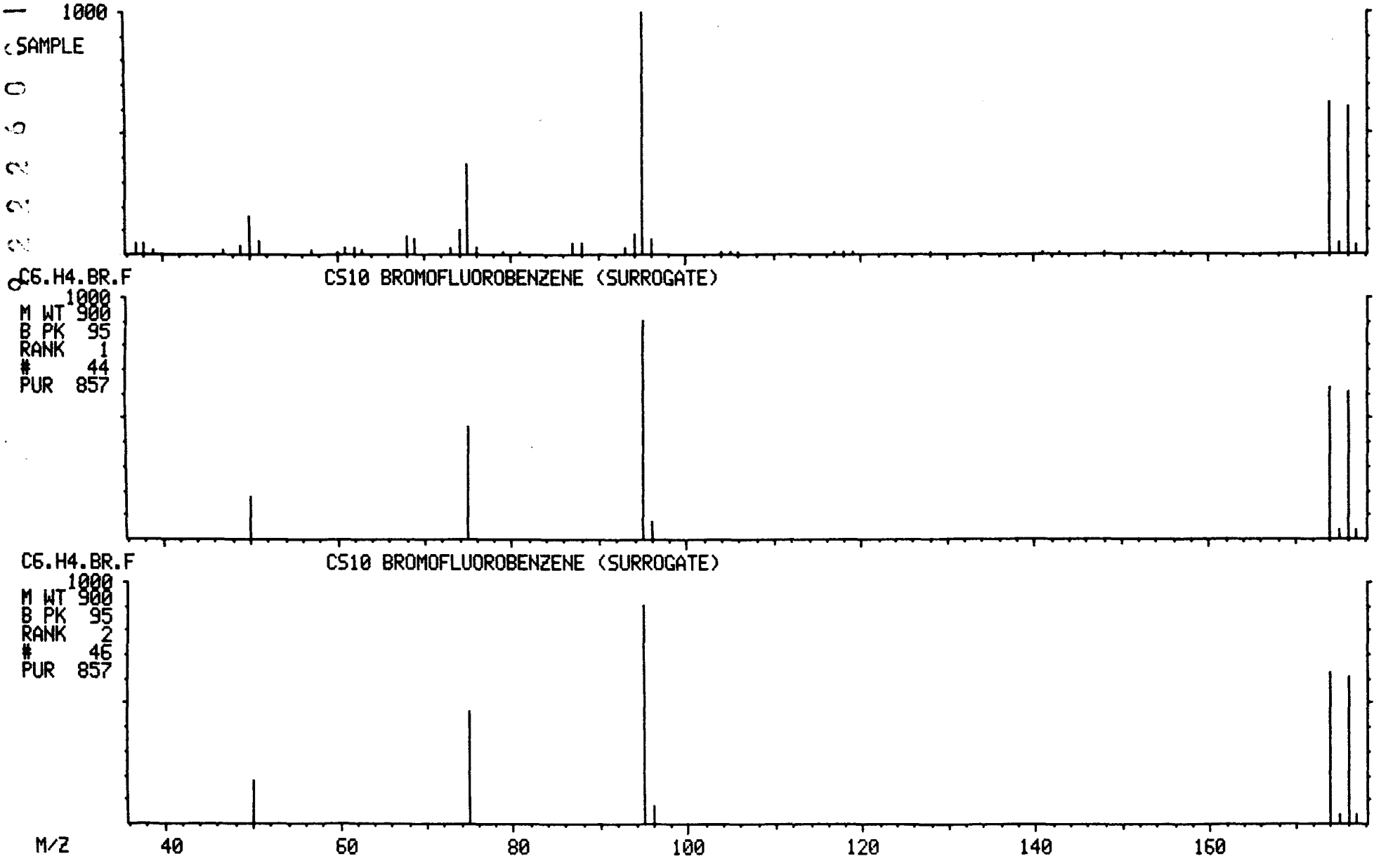
BASE M/Z: 95
RIC: 25856.



LIBRARY SEARCH
04/03/91 10:42:00 + 21:57
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 #1646
CALI: B0403LC03 # 3

BASE M/Z: 95
RIC: 25343.



NON-TARGET COMPOUND SPECTRA

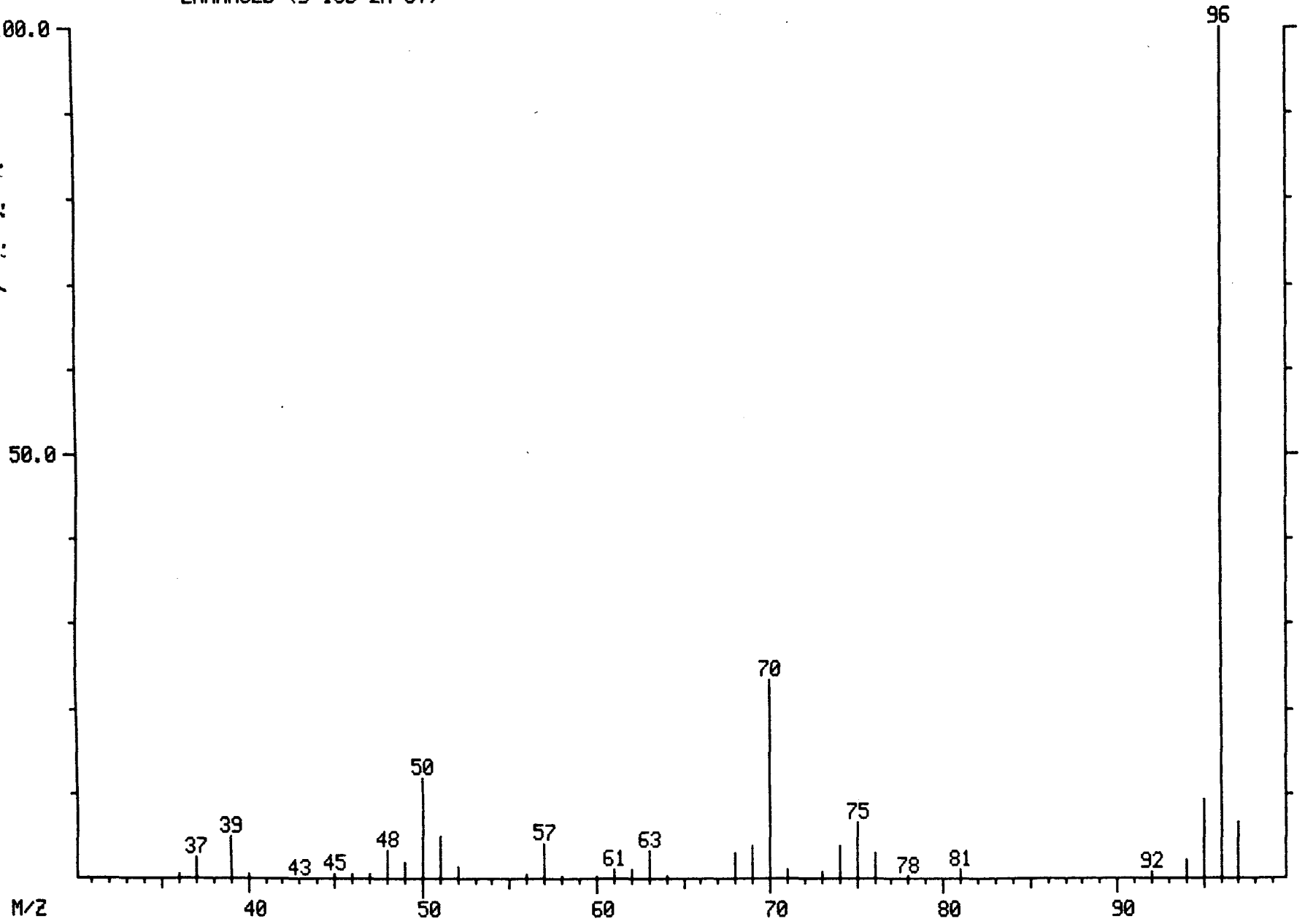
9222600015665

000859

MASS SPECTRUM
04/03/91 10:42:00 + 6:13
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
GC TEMP: 34 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 #466
CALI: B0403LC03 #3

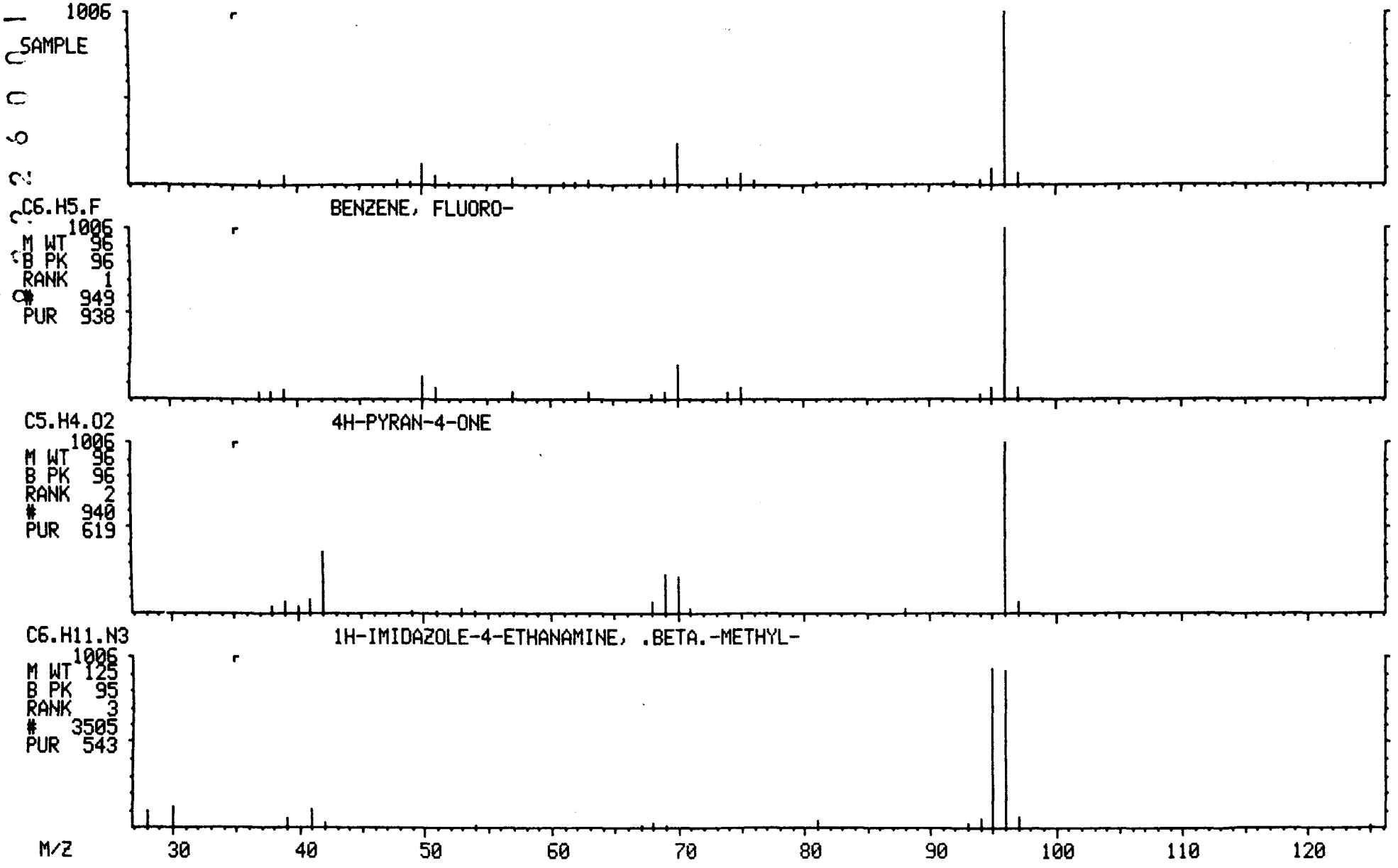
BASE M/Z: 96
RIC: 12880.



LIBRARY SEARCH
04/03/91 10:42:00 + 6:13
SAMPLE: MEOH BLANK, 100UL+SUR+INT, 5ML H2O
CONDS.: LC, DB-624
ENHANCED (S 15B 2N 0T)

DATA: B0403LC03 # 466
CALI: B0403LC03 # 3

BASE M/Z: 96
RIC: 12463.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201MS

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: D190894MS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0403BK06

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/03/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

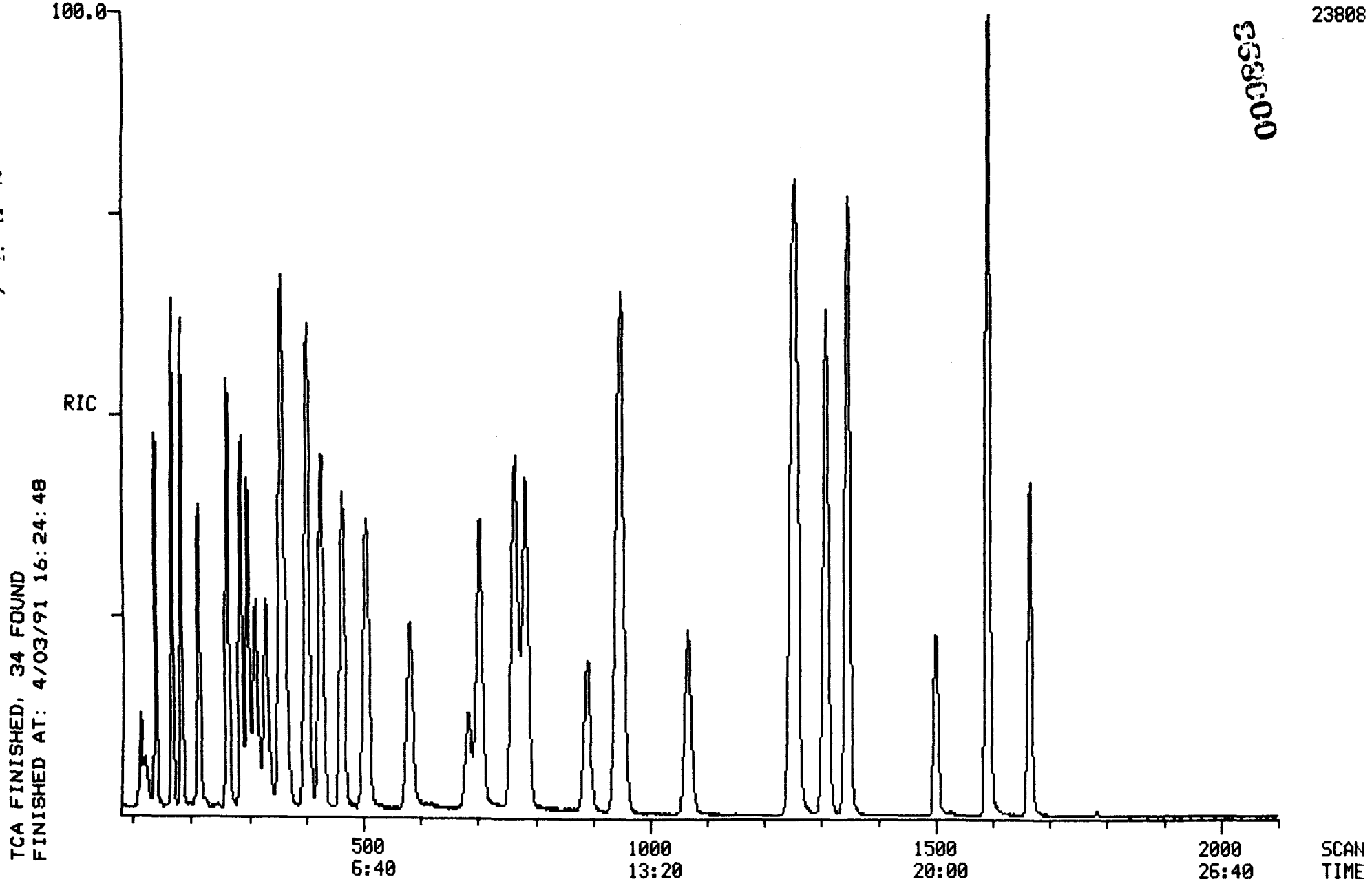
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	46	
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	46	
540-59-0	1,2-Dichloroethene (total)	44	
67-66-3	Chloroform	45	
107-06-2	1,2-Dichloroethane	47	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	45	
56-23-5	Carbon Tetrachloride	46	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	46	
78-87-5	1,2-Dichloropropane	49	
10061-01-5	cis-1,3-Dichloropropene	51	
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	45	
79-00-5	1,1,2-Trichloroethane	47	
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	34	
75-25-2	Bromoform	46	
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	45	
79-34-5	1,1,2,2-Tetrachloroethane	46	
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	46	
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	57	

RIC
04/03/91 13:27:00
SAMPLE: 90894, MS1
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: A0403BK06 #1 SCANS 80 TO 2100
CALI: A0403BK06 #3

G201 MS



TCA FINISHED, 34 FOUND
FINISHED AT: 4/03/91 16:24:48

9 2 2 2 6 0 0 1 5 6 9

003893

PROCEDURE: TCA DIAGNOSTIC REPORT 4/03/91 16:20:00
DATA FILE: A0403BK06
REFERENCE: CLWTAB11
NAME LIST: CLWDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLWRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	10	2	22	CLWRT1/CLWTC1
1	1	1	0	12	11	2	50	CLWRT2/CLWTC2
1	1	1	0	17	13	1	115	CLWRT3/CLWTC3

44 COMPOUNDS PROCESSED, 34 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CW	1	285	286	286	.	1	973	.	128	286	.	1
2	CW	2	-93	93	.	.	.	.	.	50	.	.	.
3	CW	3	-104	104	.	.	.	.	.	94	.	.	.
4	CW	4	-94	94	.	.	.	.	.	62	.	.	.
5	CW	5	-104	104	.	.	.	.	.	64	.	.	.
6	CW	6	166	166	166	.	1	993	.	84	166	.	1
7	CW	7	143	143	143	.	1	993	.	43	143	.	3
8	CW	8	-147	147	.	.	.	.	.	76	148	.	1
9	CW	9	-137	137	137	.	1	997	.	96	137	.	1
10	CW	10	-212	212	212	.	1	991	.	63	212	.	1
11	CW	12	-297	298	298	.	1	998	.	83	298	.	1
12	CW	13	-311	312	312	.	1	995	.	97	312	.	1
13	CW	14	-112	112	112	.	2	998	.	101	112	.	1
14	CW	15	-182	182	182	.	1	991	.	96	182	.	1
15	CW	16	-261	262	262	.	1	997	.	96	262	.	1
16	CW	17	424	427	427	.	1	992	.	114	426	-1	1
17	CW	18	-364	366	365	-1	1	975	.	62	365	.	1
18	CW	19	-270	268	269	1	2	991	.	72	264	-5	2
19	CW	20	-330	330	330	.	1	1000	.	117	330	.	1
20	CW	21	-223	220	.	.	.	.	.	43	224	.	1
21	CW	22	-572	581	581	.	1	999	.	83	581	.	1
22	CW	23	-500	506	506	.	1	978	.	63	506	.	1
23	CW	24	-871	890	890	.	1	987	.	75	891	1	1
24	CW	25	-458	463	463	.	1	994	.	130	463	.	1
25	CW	27	-356	357	357	.	1	993	.	78	357	.	1
26	CW	28	-672	684	684	.	1	991	.	106	682	-2	1
27	CW	29	353	354	355	1	1	943	.	65	354	-1	1
28	CW	30	1244	1247	1247	.	1	995	.	117	1247	.	1
29	CW	26	-1064	1067	1066	-1	1	995	.	129	1066	.	1
30	CW	31	-940	943	943	.	1	995	.	97	942	-1	1
31	CW	32	-698	703	703	.	1	982	.	75	703	.	1
32	CW	33	-1067	1070	.	.	.	.	.	43	1074	.	1
33	CW	34	-770	774	.	.	.	.	.	43	.	.	.
34	CW	35	-945	948	948	.	1	982	.	164	948	.	1
35	CW	36	-1667	1666	1664	-2	1	996	.	83	1665	1	1
36	CW	37	-778	782	782	.	1	998	.	91	782	.	1
37	CW	38	-1253	1255	1254	-1	1	995	.	112	1253	-1	1
38	CW	39	-1305	1306	1306	.	1	997	.	106	1306	.	1
39	CW	40	-1462	1462	.	.	.	.	.	104	.	.	.
40	CW	41	-1343	1344	1345	1	1	997	.	106	[illegible]	.	1
41	CW	42	-1452	1453	.	.	.	.	.	106	1452	.	1
42	CW	43	-1500	1500	1500	.	1	993	.	173	1501	1	1
43	CW	44	1589	1589	1591	2	1	991	.	95	1591	.	1
44	CW	45	759	763	763	.	1	998	.	98	764	1	1

000894

Quantitation Report File: A0403BK06

Data: A0403BK06.TI
04/03/91 13:27:00
Sample: 90894, MS1
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C030 METHYLENE CHLORIDE
3	C045 1,1-DICHLOROETHYLENE
4	C050 1,1-DICHLOROETHANE
5	C060 CHLOROFORM
6	C115 1,1,1-TRICHLOROETHANE
7	C053 TRANS-1,2-DICHLOROETHYLENE
8	C002 CIS-1,2-DICHLOROETHYLENE
9	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
10	C065 1,2-DICHLOROETHANE
11	C120 CARBON TETRACHLORIDE
12	C130 BROMODICHLOROMETHANE
13	C140 1,2-DICHLOROPROPANE
14	C143 CIS-1,3-DICHLOROPROPENE
15	C150 TRICHLOROETHYLENE
16	C165 BENZENE
17	C175 2-CHLOROETHYLVINYL ETHER
18	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
19	CI20 D5-CHLOROBENZENE (INTERNAL)
20	C155 DIBROMOCHLOROMETHANE
21	C160 1,1,2-TRICHLOROETHANE
22	C172 TRANS-1,3-DICHLOROPROPENE
23	C220 TETRACHLOROETHYLENE
24	C225 1,1,2,2-TETRACHLOROETHANE
25	C230 TOLUENE
26	C235 CHLOROBENZENE
27	C240 ETHYLBENZENE
28	C250 M&P-XYLENES
29	C180 BROMOFORM
30	CS10 BROMOFLUOROBENZENE (SURROGATE)
31	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	286	3:49	1	1.000	A BB	7885.	50.000	UG/L	3.11
2	84	166	2:13	1	0.580	A BB	11041.	46.037	UG/L	2.86
3	96	137	1:50	1	0.479	A BB	7550.	53.611	UG/L	3.34
4	63	212	2:50	1	0.741	A BB	25908.	45.791	UG/L	2.85
5	83	298	3:58	1	1.042	A BB	23569.	45.435	UG/L	2.83
6	97	312	4:10	1	1.091	A BB	13735.	44.621	UG/L	2.78
7	96	182	2:26	1	0.636	A BB	10035.	44.176	UG/L	2.75
8	96	262	3:30	1	0.916	A BB	14111.	53.108	UG/L	3.30
9	114	426	5:41	9	1.000	A BB	35342.	50.000	UG/L	3.11
10	62	365	4:52	9	0.857	A BB	15089.	47.005	UG/L	2.92
11	117	330	4:24	9	0.775	A BB	11340.	46.198	UG/L	2.87
12	83	581	7:45	9	1.364	A BB	18769.	46.437	UG/L	2.89

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
13	63	506	6:45	9	1.188	A BB	20421.	49.245	UG/L	3.06
14	75	891	11:53	9	2.092	A BB	11449.	51.449	UG/L	3.20
15	130	463	6:10	9	1.087	A BB	14514.	47.506	UG/L	2.96
16	78	357	4:46	9	0.838	A BB	36064.	46.016	UG/L	2.86
17	106	682	9:06	9	1.601	A BB	1410.	43.835	UG/L	2.73
18	65	354	4:43	9	0.831	A BB	13472.	96.420	%	6.00
19	117	1247	16:38	19	1.000	A BB	39257.	50.000	UG/L	3.11
20	129	1066	14:13	19	0.855	A BB	16695.	45.183	UG/L	2.81
21	97	942	12:34	19	0.755	A BB	11937.	47.148	UG/L	2.93
22	75	703	9:22	19	0.564	A BB	25336.	34.512	UG/L	2.15
23	164	948	12:38	19	0.760	A BB	16341.	45.033	UG/L	2.80
24	83	1665	22:12	19	1.335	A BB	25480.	46.538	UG/L	2.90
25	91	782	10:26	19	0.627	A BB	42097.	47.649	UG/L	2.96
26	112	1253	16:42	19	1.005	A BB	39268.	47.925	UG/L	2.98
27	106	1306	17:25	19	1.047	A BB	17410.	45.755	UG/L	2.85
28	106	1345	17:56	19	1.079	A BB	25577.	56.820	UG/L	3.54
29	173	1501	20:01	9	3.523	A BB	12076.	46.293	UG/L	2.88
30	95	1591	21:13	19	1.276	A BB	40223.	93.414	%	5.81
31	98	764	10:11	19	0.613	A BB	40765.	94.114	%	5.86

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:46	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	2:10	1.02	0.576	1.01	46.04	50.00	1.400	1.521	0.92
3	1:47	1.02	0.473	1.01	53.61	50.00	0.958	0.893	1.07
4	2:48	1.01	0.742	1.00	45.79	50.00	3.286	3.588	0.92
5	3:57	1.01	1.046	1.00	45.43	50.00	2.989	3.289	0.91
6	4:07	1.01	1.092	1.00	44.62	50.00	1.742	1.952	0.89
7	2:23	1.02	0.633	1.01	44.18	50.00	1.273	1.440	0.88
8	3:28	1.01	0.919	1.00	53.11	58.70	1.524	1.685	0.90
9	5:38	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
10	4:49	1.01	0.855	1.00	47.00	50.00	0.427	0.454	0.94
11	4:21	1.01	0.773	1.00	46.20	50.00	0.321	0.347	0.92
12	7:38	1.01	1.358	1.00	46.44	50.00	0.531	0.572	0.93
13	6:39	1.01	1.182	1.00	49.24	50.00	0.578	0.587	0.98
14	11:46	1.01	2.092	1.00	51.45	60.00	0.270	0.315	0.86
15	6:06	1.01	1.085	1.00	47.51	50.00	0.411	0.432	0.95
16	4:43	1.01	0.839	1.00	46.02	50.00	1.020	1.109	0.92
17	9:00	1.01	1.600	1.00	43.84	50.00	0.040	0.046	0.88
18	4:41	1.01	0.832	1.00	96.42	100.00	0.191	0.198	0.96
19	16:34	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
20	14:09	1.00	0.854	1.00	45.18	50.00	0.425	0.471	0.90
21	12:30	1.00	0.755	1.00	47.15	50.00	0.304	0.322	0.94
22	9:15	1.01	0.559	1.01	34.51	40.00	0.807	0.935	0.86
23	12:33	1.01	0.758	1.00	45.03	50.00	0.416	0.462	0.90
24	22:10	1.00	1.338	1.00	46.54	50.00	0.649	0.697	0.93
25	10:20	1.01	0.624	1.00	47.65	50.00	1.072	1.125	0.95
26	16:40	1.00	1.006	1.00	47.92	50.00	1.000	1.044	0.96
27	17:22	1.00	1.049	1.00	45.76	50.00	0.443	0.485	0.92
28	17:53	1.00	1.080	1.00	56.82	60.60	0.538	0.573	0.94
29	19:58	1.00	3.547	0.99	46.29	50.00	0.342	0.369	0.93
30	21:11	1.00	1.279	1.00	93.41	100.00	0.512	0.548	0.93
31	10:05	1.01	0.609	1.01	94.11	100.00	0.519	0.552	0.94

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G201MSD

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) WATER Lab Sample ID: 040391MSD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0403BK07

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/03/91

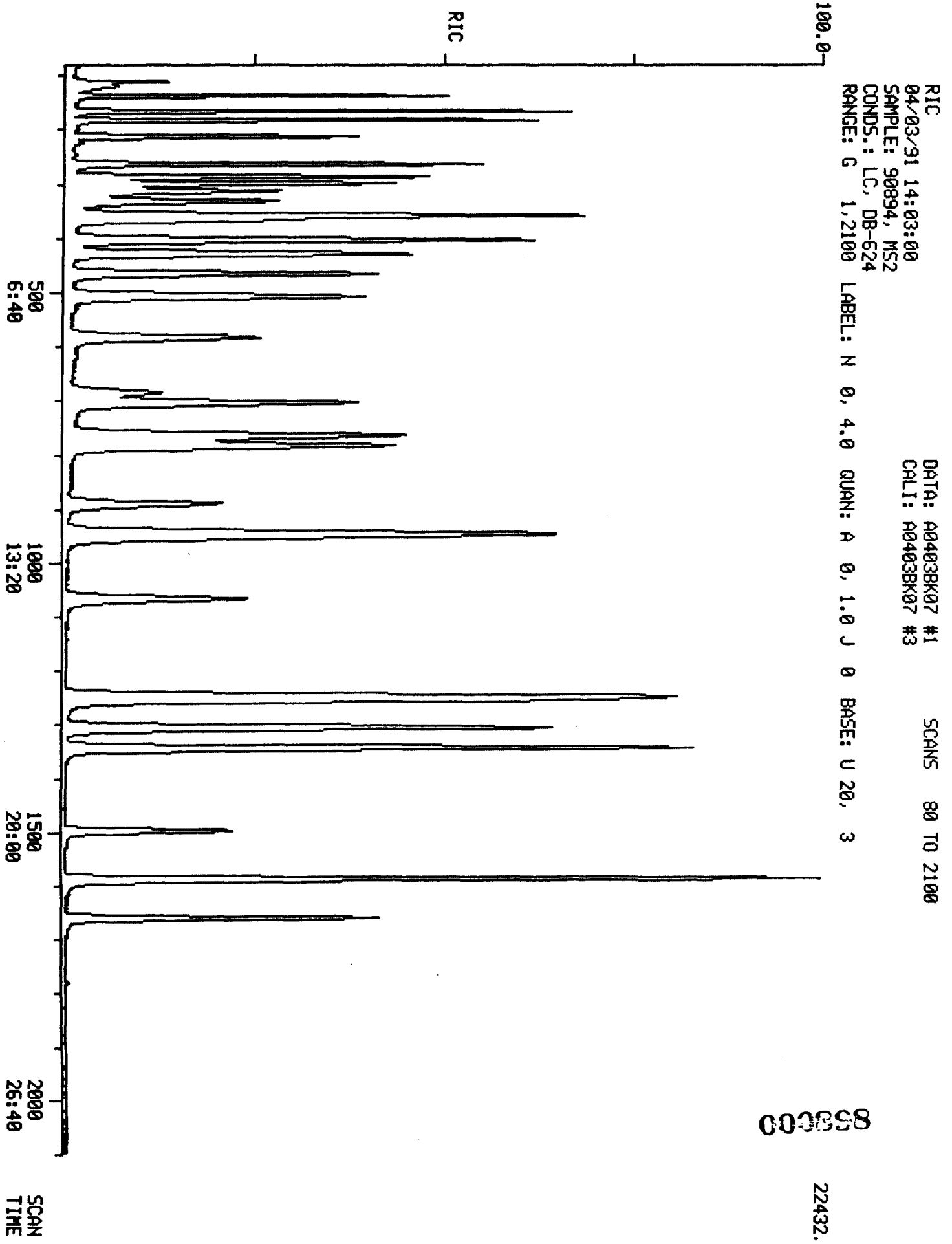
Column: (pack/cap) WIDE Dilution Factor: 1.0

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	49	
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	46	
540-59-0	1,2-Dichloroethene (total)	46	
67-66-3	Chloroform	47	
107-06-2	1,2-Dichloroethane	48	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	45	
56-23-5	Carbon Tetrachloride	48	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	48	
78-87-5	1,2-Dichloropropane	50	
10061-01-5	cis-1,3-Dichloropropene	52	
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	48	
79-00-5	1,1,2-Trichloroethane	47	
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	35	
75-25-2	Bromoform	47	
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	46	
79-34-5	1,1,2,2-Tetrachloroethane	45	
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	47	
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	57	

92226001573

TCA FINISHED, 33 FOUND
FINISHED AT: 4/03/91 16:30:39



GC/MSD

PROCEDURE: TCA DIAGNOSTIC REPORT 4/03/91 16:25:54
DATA FILE: A0403BK07
REFERENCE: CLWTAB11
NAME LIST: CLWDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLWRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	10	2	37	CLWRT1/CLWTC1
1	1	1	0	12	10	1	61	CLWRT2/CLWTC2
1	1	1	0	17	13	1	97	CLWRT3/CLWTC3

44 COMPOUNDS PROCESSED, 33 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------ >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CW	1	286	288	288	.	1	980	.	128	288	.	1
2	CW	2	-93	93	.	.	.	.	.	50	.	.	.
3	CW	3	-104	104	.	.	.	.	.	94	.	.	.
4	CW	4	-94	94	.	.	.	.	.	62	.	.	.
5	CW	5	-104	104	.	.	.	.	.	64	.	.	.
6	CW	6	166	167	167	.	1	994	.	84	167	.	1
7	CW	7	143	144	143	-1	1	1000	.	43	144	1	1
8	CW	8	-147	148	.	.	.	.	.	76	149	.	1
9	CW	9	137	138	138	.	1	995	.	96	138	.	1
10	CW	10	212	213	213	.	1	993	.	63	213	.	1
11	CW	12	298	300	300	.	1	996	.	83	300	.	1
12	CW	13	312	314	314	.	1	991	.	97	314	.	1
13	CW	14	112	113	113	.	2	998	.	101	113	.	1
14	CW	15	182	183	183	.	1	993	.	96	183	.	1
15	CW	16	262	264	264	.	1	997	.	96	264	.	1
16	CW	17	427	429	429	.	1	991	.	114	429	.	1
17	CW	18	365	367	367	.	1	978	.	62	367	.	1
18	CW	19	269	271	.	.	.	.	.	72	266	.	2
19	CW	20	330	332	332	.	1	998	.	117	332	.	1
20	CW	21	-220	223	.	.	.	.	.	43	225	.	2
21	CW	22	581	583	584	1	1	999	.	83	584	.	1
22	CW	23	506	508	508	.	1	980	.	63	508	.	1
23	CW	24	890	891	891	.	1	986	.	75	891	.	1
24	CW	25	463	465	466	1	1	992	.	130	466	.	1
25	CW	27	357	359	359	.	1	991	.	78	360	1	1
26	CW	28	684	686	685	-1	1	987	.	106	686	1	1
27	CW	29	355	357	357	.	1	944	.	65	357	.	1
28	CW	30	1247	1247	1247	.	1	997	.	117	1247	.	1
29	CW	26	1066	1067	1067	.	1	990	.	129	1067	.	1
30	CW	31	943	945	945	.	1	993	.	97	945	.	1
31	CW	32	703	706	704	-2	1	983	.	75	705	1	1
32	CW	33	-1070	1071	.	.	.	.	.	43	1071	.	1
33	CW	34	-774	776	.	.	.	.	.	43	.	.	.
34	CW	35	948	950	950	.	1	981	.	164	950	.	1
35	CW	36	1664	1662	1662	.	1	999	.	83	1662	.	1
36	CW	37	782	784	785	1	1	999	.	91	785	.	1
37	CW	38	1254	1254	1255	1	1	995	.	112	1255	.	1
38	CW	39	1306	1306	1308	2	1	997	.	106	1308	.	1
39	CW	40	-1462	1461	.	.	.	.	.	104	.	.	.
40	CW	41	1345	1345	1345	.	1	994	.	106	1344	-1	1
41	CW	42	-1453	1452	.	.	.	.	.	106	.	.	.
42	CW	43	1500	1499	1498	-1	1	992	.	173	1498	.	1
43	CW	44	1591	1590	1589	-1	1	988	.	95	1589	.	1
44	CW	45	763	765	765	.	1	996	.	98	765	.	1

000859

Quantitation Report File: A0403BK07

Data: A0403BK07.TI
04/03/91 14:03:00
Sample: 90894, MS2
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.000
Submitted by: Analyst: BK Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C030 METHYLENE CHLORIDE
3	C045 1,1-DICHLOROETHYLENE
4	C050 1,1-DICHLOROETHANE
5	C060 CHLOROFORM
6	C115 1,1,1-TRICHLOROETHANE
7	C053 TRANS-1,2-DICHLOROETHYLENE
8	C002 CIS-1,2-DICHLOROETHYLENE
9	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
10	C065 1,2-DICHLOROETHANE
11	C120 CARBON TETRACHLORIDE
12	C130 BROMODICHLOROMETHANE
13	C140 1,2-DICHLOROPROPANE
14	C143 CIS-1,3-DICHLOROPROPENE
15	C150 TRICHLOROETHYLENE
16	C165 BENZENE
17	C175 2-CHLOROETHYLVINYL ETHER
18	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
19	CI20 D5-CHLOROBENZENE (INTERNAL)
20	C155 DIBROMOCHLOROMETHANE
21	C160 1,1,2-TRICHLOROETHANE
22	C172 TRANS-1,3-DICHLOROPROPENE
23	C220 TETRACHLOROETHYLENE
24	C225 1,1,2,2-TETRACHLOROETHANE
25	C230 TOLUENE
26	C235 CHLOROBENZENE
27	C240 ETHYLBENZENE
28	C250 M&P-XYLENES
29	C180 BROMOFORM
30	CS10 BROMOFLUOROBENZENE (SURROGATE)
31	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	288	3:50	1	1.000	A BB	7455.	50.000 UG/L	3.07
2	84	167	2:14	1	0.580	A BB	11031.	48.648 UG/L	2.99
3	96	138	1:50	1	0.479	A BB	7348.	55.183 UG/L	3.39
4	63	213	2:50	1	0.740	A BB	24823.	46.404 UG/L	2.85
5	83	300	4:00	1	1.042	A BB	22982.	46.858 UG/L	2.88
6	97	314	4:11	1	1.090	A BB	13107.	45.037 UG/L	2.77
7	96	183	2:26	1	0.635	A BB	9957.	46.361 UG/L	2.85
8	96	264	3:31	1	0.917	A BB	13515.	53.800 UG/L	3.31
9	114	429	5:43	9	1.000	A BB	33513.	50.000 UG/L	3.07
10	62	367	4:54	9	0.855	A BB	14546.	47.786 UG/L	2.94
11	117	332	4:26	9	0.774	A BB	11116.	47.758 UG/L	2.94
12	83	584	7:47	9	1.361	A BB	18506.	48.286 UG/L	2.97

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
13	63	508	6:46	9	1.184	A BB	19748.	50.221 UG/L	3.09
14	75	891	11:53	9	2.077	A BB	11055.	52.393 UG/L	3.22
15	130	466	6:13	9	1.086	A BB	13849.	47.803 UG/L	2.94
16	78	360	4:48	9	0.839	A BB	34799.	46.825 UG/L	2.88
17	106	686	9:09	9	1.599	A BB	1249.	40.927 UG/L	2.52
18	65	357	4:46	9	0.832	A BB	12377.	93.415 %	5.74
19	117	1247	16:38	19	1.000	A BB	36803.	50.000 UG/L	3.07
20	129	1067	14:14	19	0.856	A BB	16611.	47.953 UG/L	2.95
21	97	945	12:36	19	0.758	A BB	11247.	47.383 UG/L	2.91
22	75	705	9:24	19	0.565	A BB	24093.	35.008 UG/L	2.15
23	164	950	12:40	19	0.762	A BB	15822.	46.509 UG/L	2.86
24	83	1662	22:10	19	1.333	A BB	23297.	45.389 UG/L	2.79
25	91	785	10:28	19	0.630	A BB	39276.	47.419 UG/L	2.91
26	112	1255	16:44	19	1.006	A BB	37393.	48.678 UG/L	2.99
27	106	1308	17:26	19	1.049	A BB	16696.	46.803 UG/L	2.88
28	106	1344	17:55	19	1.078	A BB	24146.	57.216 UG/L	3.52
29	173	1498	19:58	9	3.492	A BB	11542.	46.661 UG/L	2.87
30	95	1589	21:11	19	1.274	A BB	37908.	93.909 %	5.77
31	98	765	10:12	19	0.613	A BB	39164.	96.447 %	5.93

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	3:46	1.02	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	2:10	1.02	0.576	1.01	48.65	50.00	1.480	1.521	0.97
3	1:47	1.03	0.473	1.01	55.18	50.00	0.986	0.893	1.10
4	2:48	1.01	0.742	1.00	46.40	50.00	3.330	3.588	0.93
5	3:57	1.01	1.046	1.00	46.86	50.00	3.083	3.289	0.94
6	4:07	1.02	1.092	1.00	45.04	50.00	1.758	1.952	0.90
7	2:23	1.02	0.633	1.00	46.36	50.00	1.336	1.440	0.93
8	3:28	1.02	0.919	1.00	53.80	58.70	1.544	1.685	0.92
9	5:38	1.02	1.000	1.00	50.00	50.00	1.000	1.000	1.00
10	4:49	1.02	0.855	1.00	47.79	50.00	0.434	0.454	0.96
11	4:21	1.02	0.773	1.00	47.76	50.00	0.332	0.347	0.96
12	7:38	1.02	1.358	1.00	48.29	50.00	0.552	0.572	0.97
13	6:39	1.02	1.182	1.00	50.22	50.00	0.589	0.587	1.00
14	11:46	1.01	2.092	0.99	52.39	60.00	0.275	0.315	0.87
15	6:06	1.02	1.085	1.00	47.80	50.00	0.413	0.432	0.96
16	4:43	1.02	0.839	1.00	46.82	50.00	1.038	1.109	0.94
17	9:00	1.02	1.600	1.00	40.93	50.00	0.037	0.046	0.82
18	4:41	1.02	0.832	1.00	93.42	100.00	0.185	0.198	0.93
19	16:34	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
20	14:09	1.01	0.854	1.00	47.95	50.00	0.451	0.471	0.96
21	12:30	1.01	0.755	1.00	47.38	50.00	0.306	0.322	0.95
22	9:15	1.02	0.559	1.01	35.01	40.00	0.818	0.935	0.88
23	12:33	1.01	0.758	1.01	46.51	50.00	0.430	0.462	0.93
24	22:10	1.00	1.338	1.00	45.39	50.00	0.633	0.697	0.91
25	10:20	1.01	0.624	1.01	47.42	50.00	1.067	1.125	0.95
26	16:40	1.00	1.006	1.00	48.68	50.00	1.016	1.044	0.97
27	17:22	1.00	1.049	1.00	46.80	50.00	0.454	0.485	0.94
28	17:53	1.00	1.080	1.00	57.22	60.60	0.541	0.573	0.94
29	19:58	1.00	3.547	0.98	46.66	50.00	0.344	0.369	0.93
30	21:11	1.00	1.279	1.00	93.91	100.00	0.515	0.548	0.94
31	10:05	1.01	0.609	1.01	96.45	100.00	0.532	0.552	0.96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109MS

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190907MS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0401LC10

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/01/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

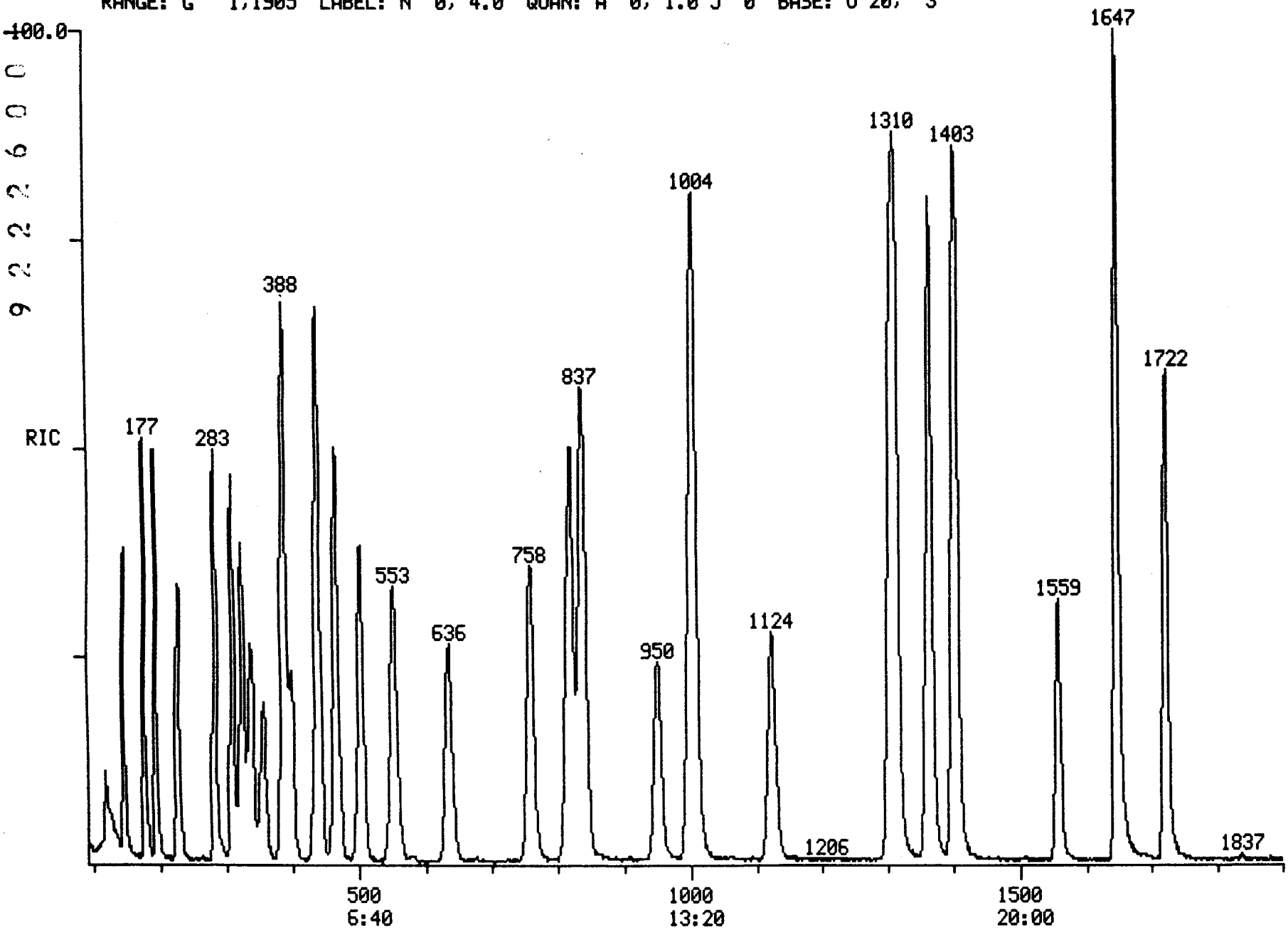
92226001578

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	53	
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	56	
540-59-0	1,2-Dichloroethene (total)	56	
67-66-3	Chloroform	54	
107-06-2	1,2-Dichloroethane	50	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	56	
56-23-5	Carbon Tetrachloride	8	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	50	
78-87-5	1,2-Dichloropropane	54	
10061-01-5	cis-1,3-Dichloropropene	60	
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	51	
79-00-5	1,1,2-Trichloroethane	50	
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	39	
75-25-2	Bromoform	50	
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	47	
79-34-5	1,1,2,2-Tetrachloroethane	50	
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	49	
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	60	

X109 MS

RIC
04/01/91 15:18:00
SAMPLE: 90907, 5.0G, MS
CONDS.: LC, DB-624
RANGE: G 1,1905 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0401LC10 #1 SCANS 90 TO 1900
CALI: B0401LC10 #3



PROCEDURE: TCA DIAGNOSTIC REPORT 4/01/91 15:44:16
DATA FILE: B0401LC10
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- ><				--- PLUS UNKNOWNS --- ><				- LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	10	8	83	CLSRT1/CLSTC1
1	1	1	0	13	10	4	541	CLSRT2/CLSTC2
1	1	2	0	16	12	12	118	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 32 FOUND

< COMPOUND ><			---------- SEARCH ---------- >< SAT ><							------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	313	309	309	.	1	978	.	128	310	1	1
2	CS	2	-99	98	.	.	.	.	.	50	.	.	.
3	CS	3	-110	109	.	.	.	.	.	94	.	.	.
4	CS	4	-101	100	.	.	.	.	.	62	.	.	.
5	CS	5	-111	110	.	.	.	.	.	64	112	.	1
6	CS	6	178	176	177	1	1	982	.	84	176	-1	1
7	CS	7	155	153	153	.	4	981	.	43	153	.	2
8	CS	8	-158	156	.	.	.	.	.	76	154	.	1
9	CS	9	-147	146	145	-1	1	988	.	96	145	.	1
10	CS	10	-228	226	227	1	1	989	.	63	227	.	1
11	CS	12	-328	324	324	.	1	993	.	83	323	-1	1
12	CS	13	-341	337	337	.	1	985	.	97	337	.	1
13	CS	14	-119	118	117	-1	2	996	.	101	117	.	1
14	CS	15	-195	193	194	1	1	992	.	96	193	-1	1
15	CS	16	-286	283	283	.	1	993	.	96	283	.	1
16	CS	17	473	466	466	.	1	998	.	114	466	.	1
17	CS	18	-400	394	399	5	1	967	.	62	399	.	1
18	CS	19	-274	276	.	.	.	.	.	72	.	.	.
19	CS	20	-341	339	337	-2	2	996	.	117	337	.	1
20	CS	21	-208	213	.	.	.	.	.	43	212	.	1
21	CS	22	-663	642	636	-6	1	994	.	83	635	-1	1
22	CS	23	-577	561	553	-8	1	971	.	63	553	.	1
23	CS	24	-792	764	758	-6	2	995	.	75	759	1	1
24	CS	25	-511	499	504	5	1	990	.	130	504	.	1
25	CS	27	-388	383	388	5	1	992	.	78	388	.	1
26	CS	28	-774	747	.	.	.	.	.	106	.	.	.
27	CS	29	392	387	387	.	1	935	.	65	387	.	1
28	CS	43	-1632	1555	1559	4	1	988	.	173	1559	.	1
29	CS	30	1308	1304	1304	.	2	998	.	117	1304	.	1
30	CS	26	-1131	1125	1123	-2	1	988	.	129	1123	.	1
31	CS	31	-1010	1004	1004	.	1	990	.	97	1004	.	1
32	CS	32	-957	951	950	-1	1	930	.	75	951	1	1
33	CS	33	-1136	1130	.	.	.	.	.	43	1129	.	3
34	CS	34	-843	836	.	.	.	.	.	43	835	.	1
35	CS	35	-1010	1004	1002	-2	1	978	.	164	1002	.	1
36	CS	36	-1726	1723	1722	-1	3	1000	.	83	1722	.	1
37	CS	37	-844	837	838	1	2	996	.	91	838	.	1
38	CS	38	-1316	1311	1312	1	1	989	.	112	1313	1	1
39	CS	39	-1368	1363	1364	1	1	994	.	106	1364	.	1
40	CS	40	-1521	1517	.	.	.	.	.	104	.	.	.
41	CS	41	-1408	1403	1403	.	1	996	.	106	1402	-1	1
42	CS	42	-1514	1510	.	.	.	.	.	106	1509	.	2
43	CS	44	1650	1646	1647	1	1	992	.	95	1647	.	1
44	CS	45	826	819	820	1	2	992	.	98	821	1	1

TCA FINISHED, 32 FOUND
FINISHED AT: 4/01/91 15:47:51
Quantitation Report File: B0401LC10

Data: B0401LC10.TI
04/01/91 15:18:00
Sample: 90907, 5.0G, MS
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C030 METHYLENE CHLORIDE
3	C045 1,1-DICHLOROETHYLENE
4	C050 1,1-DICHLOROETHANE
5	C060 CHLOROFORM
6	C115 1,1,1-TRICHLOROETHANE
7	C053 TRANS-1,2-DICHLOROETHYLENE
8	C002 CIS-1,2-DICHLOROETHYLENE
9	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
10	C065 1,2-DICHLOROETHANE
11	C120 CARBON TETRACHLORIDE
12	C130 BROMODICHLOROMETHANE
13	C140 1,2-DICHLOROPROPANE
14	C143 CIS-1,3-DICHLOROPROPENE
15	C150 TRICHLOROETHYLENE
16	C165 BENZENE
17	C175 2-CHLOROETHYLVINYL ETHER
18	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
19	C180 BROMOFORM
20	CI20 D5-CHLOROBENZENE (INTERNAL)
21	C155 DIBROMOCHLOROMETHANE
22	C160 1,1,2-TRICHLOROETHANE
23	C172 TRANS-1,3-DICHLOROPROPENE
24	C220 TETRACHLOROETHYLENE
25	C225 1,1,2,2-TETRACHLOROETHANE
26	C230 TOLUENE
27	C235 CHLOROBENZENE
28	C240 ETHYLBENZENE
29	C250 M&P-XYLENES
30	CS10 BROMOFLUOROBENZENE (SURROGATE)
31	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	310	4:08	1	1.000	A BB	9313.	50.000 UG/G	2.97
2	84	176	2:21	1	0.568	A BB	12564.	53.391 UG/G	3.17
3	96	145	1:56	1	0.468	A BB	9451.	53.854 UG/G	3.20
4	63	227	3:02	1	0.732	A BB	27562.	55.734 UG/G	3.31
5	83	323	4:18	1	1.042	A BB	27472.	54.457 UG/G	3.24
6	97	337	4:30	1	1.087	A BB	18296.	55.659 UG/G	3.31
7	96	193	2:34	1	0.623	A BB	13254.	55.897 UG/G	3.32
8	96	283	3:46	1	0.913	A BB	18329.	63.805 UG/G	3.79
9	114	466	6:13	9	1.000	A BB	46948.	50.000 UG/G	2.97
10	62	399	5:19	9	0.856	A BB	14904.	49.913 UG/G	2.97
11	117	337	4:30	9	0.723	A BB	1865.	8.275 UG/G	0.49
12	83	635	8:28	9	1.363	A BB	25187.	50.135 UG/G	2.98

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
13	63	553	7:22	9	1.187	A BB	22101.	53.907	UG/G	3.20
14	75	759	10:07	9	1.629	A BB	33762.	60.326	UG/G	3.58
15	130	504	6:43	9	1.082	A BB	16759.	51.238	UG/G	3.04
16	78	388	5:10	9	0.833	A BB	45614.	52.322	UG/G	3.11
17	NOT	FOUND								
18	65	387	5:10	9	0.830	A BB	13654.	100.107	%	5.95
19	173	1559	20:47	9	3.345	A BB	18206.	50.325	UG/G	2.99
20	117	1304	17:23	20	1.000	A BB	53401.	50.000	UG/G	2.97
21	129	1123	14:58	20	0.861	A BB	23992.	50.669	UG/G	3.01
22	97	1004	13:23	20	0.770	A BB	21101.	50.036	UG/G	2.97
23	75	951	12:41	20	0.729	A BB	20021.	39.371	UG/G	2.34
24	164	1002	13:22	20	0.768	A BB	17112.	47.221	UG/G	2.81
25	83	1722	22:58	20	1.321	A BB	41038.	50.466	UG/G	3.00
26	91	838	11:10	20	0.643	A BB	65204.	66.501	UG/G	3.95
27	112	1313	17:30	20	1.007	A BB	52553.	49.286	UG/G	2.93
28	106	1364	18:11	20	1.046	A BB	26066.	49.422	UG/G	2.94
29	106	1402	18:42	20	1.075	A BB	39528.	60.545	UG/G	3.60
30	95	1647	21:58	20	1.263	A BB	53691.	99.223	%	5.90
31	98	819	10:55	20	0.628	A BB	52528.	101.104	%	6.01

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:20	0.95	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	2:25	0.97	0.557	1.02	53.39	50.00	1.349	1.263	1.07
3	1:58	0.99	0.452	1.03	53.85	50.00	1.015	0.942	1.08
4	3:08	0.97	0.723	1.01	55.73	50.00	2.959	2.655	1.11
5	4:33	0.95	1.049	0.99	54.46	50.00	2.950	2.708	1.09
6	4:43	0.95	1.089	1.00	55.66	50.00	1.964	1.765	1.11
7	2:39	0.97	0.612	1.02	55.90	50.00	1.423	1.273	1.12
8	3:57	0.96	0.911	1.00	63.80	58.70	1.676	1.542	1.09
9	6:21	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
10	5:38	0.95	0.853	1.00	49.91	50.00	0.317	0.318	1.00
11	5:00	0.90	0.758	0.95	8.28	50.00	0.040	0.240	0.17
12	8:51	0.96	1.341	1.02	50.14	50.00	0.536	0.535	1.00
13	7:47	0.95	1.180	1.01	53.91	50.00	0.471	0.437	1.08
14	10:27	0.97	1.584	1.03	60.33	60.00	0.599	0.596	1.01
15	7:06	0.95	1.077	1.00	51.24	50.00	0.357	0.348	1.02
16	5:28	0.95	0.828	1.01	52.32	50.00	0.972	0.928	1.05
17	10:14		1.552						
18	5:28	0.94	0.828	1.00	100.11	100.00	0.145	0.145	1.00
19	20:47	1.00	3.149	1.06	50.32	50.00	0.388	0.385	1.01
20	17:30	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
21	15:12	0.99	0.869	0.99	50.67	50.00	0.449	0.443	1.01
22	13:37	0.98	0.778	0.99	50.04	50.00	0.395	0.395	1.00
23	12:55	0.98	0.739	0.99	39.37	40.00	0.469	0.476	0.98
24	13:37	0.98	0.778	0.99	47.22	50.00	0.320	0.339	0.94
25	22:56	1.00	1.311	1.01	50.47	50.00	0.768	0.761	1.01
26	11:28	0.97	0.655	0.98	66.50	50.00	1.221	0.918	1.33
27	17:37	0.99	1.007	1.00	49.29	50.00	0.984	0.998	0.99
28	18:16	1.00	1.044	1.00	49.42	50.00	0.488	0.494	0.99
29	18:46	1.00	1.072	1.00	60.54	60.60	0.611	0.611	1.00
30	21:58	1.00	1.255	1.01	99.22	100.00	0.503	0.507	0.99
31	11:13	0.97	0.641	0.98	101.10	100.00	0.492	0.486	1.01

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109MSD

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190907MSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0401LC11

Level: (low/med) LOW Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/01/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

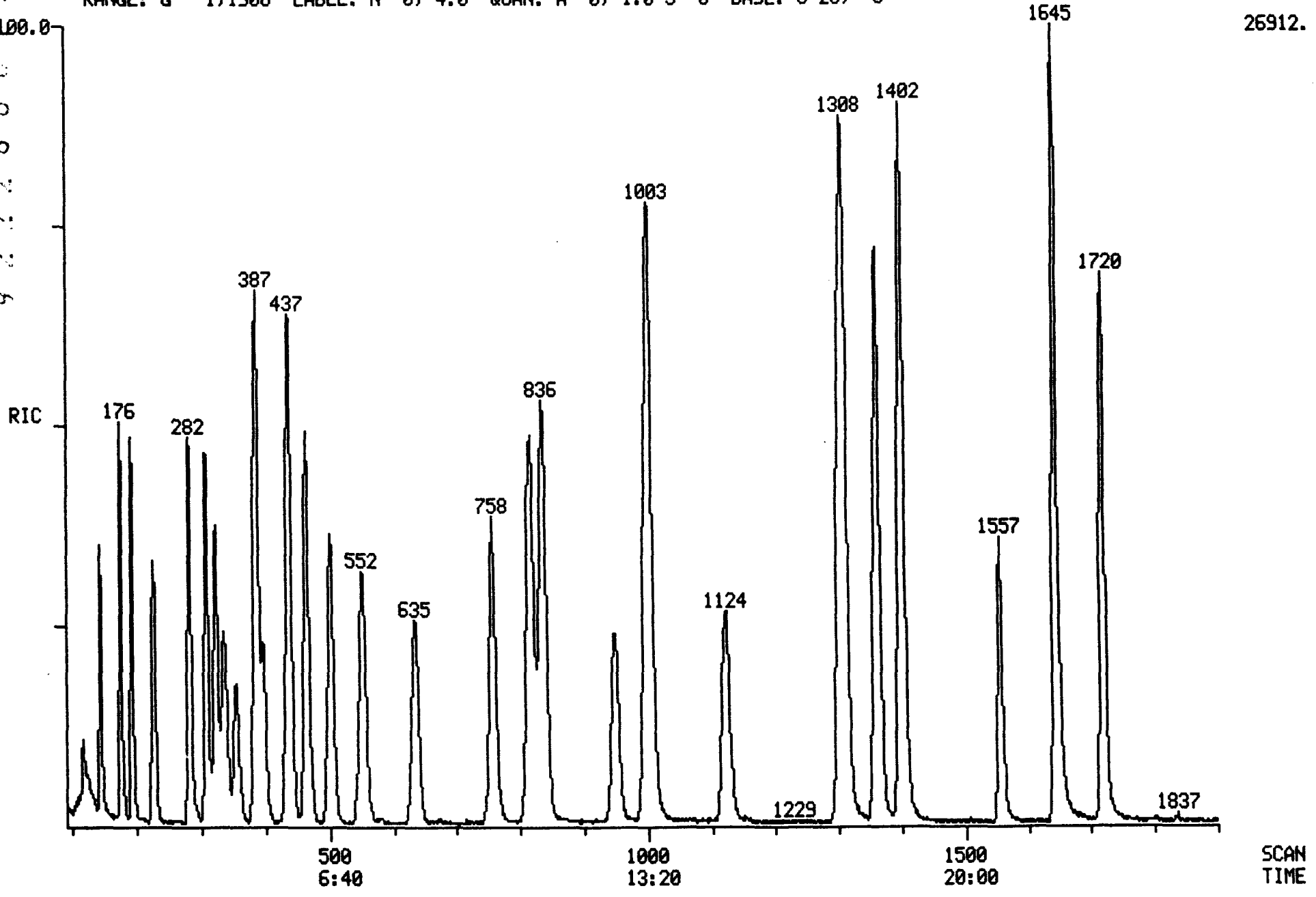
9222600158 3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	47	
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	49	
540-59-0	1,2-Dichloroethene (total)	48	
67-66-3	Chloroform	50	
107-06-2	1,2-Dichloroethane	53	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	48	
56-23-5	Carbon Tetrachloride	7	
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	50	
78-87-5	1,2-Dichloropropane	54	
10061-01-5	cis-1,3-Dichloropropene	62	
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	55	
79-00-5	1,1,2-Trichloroethane	53	
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	41	
75-25-2	Bromoform	56	
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	48	
79-34-5	1,1,2,2-Tetrachloroethane	62	
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	48	
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	59	

X109 MSD

RIC
04/01/91 15:55:00
SAMPLE: 90907, 5.0G, MSD
CONDS.: LC, DB-624
RANGE: G 1,1906 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0401LC11 #1 SCANS 90 TO 1900
CALI: B0401LC11 #3



000908

PROCEDURE: TCA DIAGNOSTIC REPORT 4/01/91 16:21:56
DATA FILE: B0401LC11
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	10	3	74	CLSRT1/CLSTC1
1	1	1	0	13	11	4	500	CLSRT2/CLSTC2
1	1	1	0	16	12	12	133	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 33 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	309	309	309	.	1	973	.	128	309	.	1
2	CS	2	-98	98	.	.	.	.	.	50	.	.	.
3	CS	3	-109	109	.	.	.	.	.	94	.	.	.
4	CS	4	-100	100	.	.	.	.	.	62	.	.	.
5	CS	5	-110	110	.	.	.	.	.	64	110	.	1
6	CS	6	177	176	176	.	1	984	.	84	176	.	1
7	CS	7	153	152	154	2	3	919	.	43	154	.	1
8	CS	8	-156	155	.	.	.	.	.	76	154	.	1
9	CS	9	145	144	144	.	1	987	.	96	144	.	1
10	CS	10	227	226	227	1	1	992	.	63	227	.	1
11	CS	12	324	323	323	.	1	991	.	83	323	.	1
12	CS	13	337	336	336	.	1	992	.	97	336	.	1
13	CS	14	117	117	116	-1	1	989	.	101	116	.	1
14	CS	15	194	193	193	.	1	989	.	96	193	.	1
15	CS	16	283	282	282	.	1	993	.	96	282	.	1
16	CS	17	466	465	465	.	1	995	.	114	465	.	1
17	CS	18	399	400	397	-3	1	963	.	62	397	.	1
18	CS	19	-276	277	291	14	1	987	.	72	295	4	2
19	CS	20	337	338	335	-3	2	998	.	117	337	2	1
20	CS	21	-213	215	.	.	.	.	.	43	210	.	3
21	CS	22	636	636	636	.	1	993	.	83	636	.	1
22	CS	23	553	553	552	-1	1	976	.	63	551	-1	1
23	CS	24	758	758	758	.	1	996	.	75	758	.	1
24	CS	25	504	505	502	-3	1	988	.	130	502	.	1
25	CS	27	388	389	387	-2	1	989	.	78	387	.	1
26	CS	28	-747	747	.	.	.	.	.	106	.	.	.
27	CS	29	387	388	386	-2	1	929	.	65	386	.	1
28	CS	43	1559	1555	1557	2	2	985	.	173	1557	.	1
29	CS	30	1304	1304	1304	.	1	995	.	117	1302	-2	1
30	CS	26	1123	1122	1125	3	1	988	.	129	1125	.	1
31	CS	31	1004	1003	1004	1	1	995	.	97	1004	.	1
32	CS	32	950	949	949	.	2	932	.	75	949	.	1
33	CS	33	-1130	1129	.	.	.	.	.	43	1125	.	2
34	CS	34	-836	835	.	.	.	.	.	43	835	.	1
35	CS	35	1002	1001	1001	.	1	972	.	164	1001	.	1
36	CS	36	1722	1721	1720	-1	2	999	.	83	1720	.	1
37	CS	37	838	837	837	.	1	996	.	91	837	.	1
38	CS	38	1312	1311	1310	-1	1	992	.	112	1310	.	1
39	CS	39	1364	1363	1363	.	1	996	.	106	1362	-1	1
40	CS	40	-1517	1516	.	.	.	.	.	104	.	.	.
41	CS	41	1403	1402	1402	.	1	993	.	106	1402	.	1
42	CS	42	-1510	1509	.	.	.	.	.	106	1506	.	1
43	CS	44	1647	1646	1645	-1	1	989	.	95	1646	1	1
44	CS	45	820	819	817	-2	3	992	.	98	817	.	1

TCA FINISHED, 33 FOUND
FINISHED AT: 4/01/91 16:25:35
Quantitation Report File: B0401LC11

Data: B0401LC11.TI
04/01/91 15:55:00
Sample: 90907, 5.0G, MSD
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C030 METHYLENE CHLORIDE
3	C045 1,1-DICHLOROETHYLENE
4	C050 1,1-DICHLOROETHANE
5	C060 CHLOROFORM
6	C115 1,1,1-TRICHLOROETHANE
7	C053 TRANS-1,2-DICHLOROETHYLENE
8	C002 CIS-1,2-DICHLOROETHYLENE
9	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
10	C065 1,2-DICHLOROETHANE
11	C120 CARBON TETRACHLORIDE
12	C130 BROMODICHLOROMETHANE
13	C140 1,2-DICHLOROPROPANE
14	C143 CIS-1,3-DICHLOROPROPENE
15	C150 TRICHLOROETHYLENE
16	C165 BENZENE
17	C175 2-CHLOROETHYLVINYL ETHER
18	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
19	C180 BROMOFORM
20	CI20 D5-CHLOROBENZENE (INTERNAL)
21	C155 DIBROMOCHLOROMETHANE
22	C160 1,1,2-TRICHLOROETHANE
23	C172 TRANS-1,3-DICHLOROPROPENE
24	C220 TETRACHLOROETHYLENE
25	C225 1,1,2,2-TETRACHLOROETHANE
26	C230 TOLUENE
27	C235 CHLOROBENZENE
28	C240 ETHYLBENZENE
29	C250 M&P-XYLENES
30	CS10 BROMOFLUOROBENZENE (SURROGATE)
31	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	309	4:07	1	1.000	A BB	10253.	50.000 UG/G	3.00
2	84	176	2:21	1	0.570	A BB	12291.	47.444 UG/G	2.85
3	96	144	1:55	1	0.466	A BB	8777.	45.429 UG/G	2.73
4	63	227	3:02	1	0.735	A BB	26574.	48.811 UG/G	2.93
5	83	323	4:18	1	1.045	A BB	27980.	50.380 UG/G	3.02
6	97	336	4:29	1	1.087	A BB	17369.	47.996 UG/G	2.88
7	96	193	2:34	1	0.625	A BB	12667.	48.525 UG/G	2.91
8	96	282	3:46	1	0.913	A BB	18110.	57.263 UG/G	3.44
9	114	465	6:12	9	1.000	A BB	47685.	50.000 UG/G	3.00
10	62	397	5:18	9	0.854	A BB	16029.	52.849 UG/G	3.17
11	117	337	4:30	9	0.725	A BB	1569.	6.854 UG/G	0.41
12	83	636	8:29	9	1.368	A BB	25627.	50.222 UG/G	3.01

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
13	63	551	7:21	9	1.185	A BB	22548.	54.147 UG/G	3.25
14	75	758	10:06	9	1.630	A BB	35191.	61.907 UG/G	3.72
15	130	502	6:42	9	1.080	A BB	16656.	50.137 UG/G	3.01
16	78	387	5:10	9	0.832	A BB	45471.	51.353 UG/G	3.08
17	NOT	FOUND							
18	65	386	5:09	9	0.830	A BB	15119.	109.132 %	6.55
19	173	1557	20:46	9	3.348	A BB	20399.	55.516 UG/G	3.33
20	117	1302	17:22	20	1.000	A BB	53400.	50.000 UG/G	3.00
21	129	1125	15:00	20	0.864	A BB	25930.	54.761 UG/G	3.29
22	97	1004	13:23	20	0.771	A BB	22423.	53.171 UG/G	3.19
23	75	949	12:39	20	0.729	A BB	20887.	41.075 UG/G	2.46
24	164	1001	13:21	20	0.769	A BB	17322.	47.802 UG/G	2.87
25	83	1720	22:56	20	1.321	A BB	50054.	61.554 UG/G	3.69
26	91	837	11:10	20	0.643	A BB	59729.	60.917 UG/G	3.66
27	112	1310	17:28	20	1.006	A BB	51569.	48.364 UG/G	2.90
28	106	1362	18:10	20	1.046	A BB	25591.	48.521 UG/G	2.91
29	106	1402	18:42	20	1.077	A BB	38294.	58.656 UG/G	3.52
30	95	1646	21:57	20	1.264	A BB	53447.	98.773 %	5.93
31	98	817	10:54	20	0.627	A BB	54465.	104.832 %	6.29

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:20	0.95	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	2:25	0.97	0.557	1.02	47.44	50.00	1.199	1.263	0.95
3	1:58	0.98	0.452	1.03	45.43	50.00	0.856	0.942	0.91
4	3:08	0.97	0.723	1.02	48.81	50.00	2.592	2.655	0.98
5	4:33	0.95	1.049	1.00	50.38	50.00	2.729	2.708	1.01
6	4:43	0.95	1.089	1.00	48.00	50.00	1.694	1.765	0.96
7	2:39	0.97	0.612	1.02	48.53	50.00	1.235	1.273	0.97
8	3:57	0.95	0.911	1.00	57.26	58.70	1.504	1.542	0.98
9	6:21	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
10	5:38	0.94	0.853	1.00	52.85	50.00	0.336	0.318	1.06
11	5:00	0.90	0.758	0.96	6.85	50.00	0.033	0.240	0.14
12	8:51	0.96	1.341	1.02	50.22	50.00	0.537	0.535	1.00
13	7:47	0.94	1.180	1.00	54.15	50.00	0.473	0.437	1.08
14	10:27	0.97	1.584	1.03	61.91	60.00	0.615	0.596	1.03
15	7:06	0.94	1.077	1.00	50.14	50.00	0.349	0.348	1.00
16	5:28	0.94	0.828	1.00	51.35	50.00	0.954	0.928	1.03
17	10:14		1.552						
18	5:28	0.94	0.828	1.00	109.13	100.00	0.159	0.145	1.09
19	20:47	1.00	3.149	1.06	55.52	50.00	0.428	0.385	1.11
20	17:30	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
21	15:12	0.99	0.869	0.99	54.76	50.00	0.486	0.443	1.10
22	13:37	0.98	0.778	0.99	53.17	50.00	0.420	0.395	1.06
23	12:55	0.98	0.739	0.99	41.07	40.00	0.489	0.476	1.03
24	13:37	0.98	0.778	0.99	47.80	50.00	0.324	0.339	0.96
25	22:56	1.00	1.311	1.01	61.55	50.00	0.937	0.761	1.23
26	11:28	0.97	0.655	0.98	60.92	50.00	1.119	0.918	1.22
27	17:37	0.99	1.007	1.00	48.36	50.00	0.966	0.998	0.97
28	18:16	0.99	1.044	1.00	48.52	50.00	0.479	0.494	0.97
29	18:46	1.00	1.072	1.00	58.66	60.60	0.592	0.611	0.97
30	21:58	1.00	1.255	1.01	98.77	100.00	0.500	0.507	0.99
31	11:13	0.97	0.641	0.98	104.83	100.00	0.510	0.486	1.05

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109MS

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190907MS

Sample wt/vol: 4.0 (g/mL) G Lab File ID: B0403LC05

Level: (low/med) MED Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/03/91

Column: (pack/cap) WIDE Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	42	J
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	620	U
75-35-4	1,1-Dichloroethene	620	U
75-34-3	1,1-Dichloroethane	46	J
540-59-0	1,2-Dichloroethene (total)	47	J
67-66-3	Chloroform	45	J
107-06-2	1,2-Dichloroethane	52	J
78-93-3	2-Butanone	1200	U
71-55-6	1,1,1-Trichloroethane	46	J
56-23-5	Carbon Tetrachloride	52	J
108-05-4	Vinyl Acetate	1200	U
75-27-4	Bromodichloromethane	50	J
78-87-5	1,2-Dichloropropane	52	J
10061-01-5	cis-1,3-Dichloropropene	65	J
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	47	J
79-00-5	1,1,2-Trichloroethane	49	J
71-43-2	Benzene	620	U
10061-02-6	trans-1,3-Dichloropropene	40	J
75-25-2	Bromoform	53	J
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	51	J
79-34-5	1,1,2,2-Tetrachloroethane	52	J
108-88-3	Toluene	620	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	51	J
100-42-5	Styrene	620	U
1330-20-7	Xylene (total)	60	J

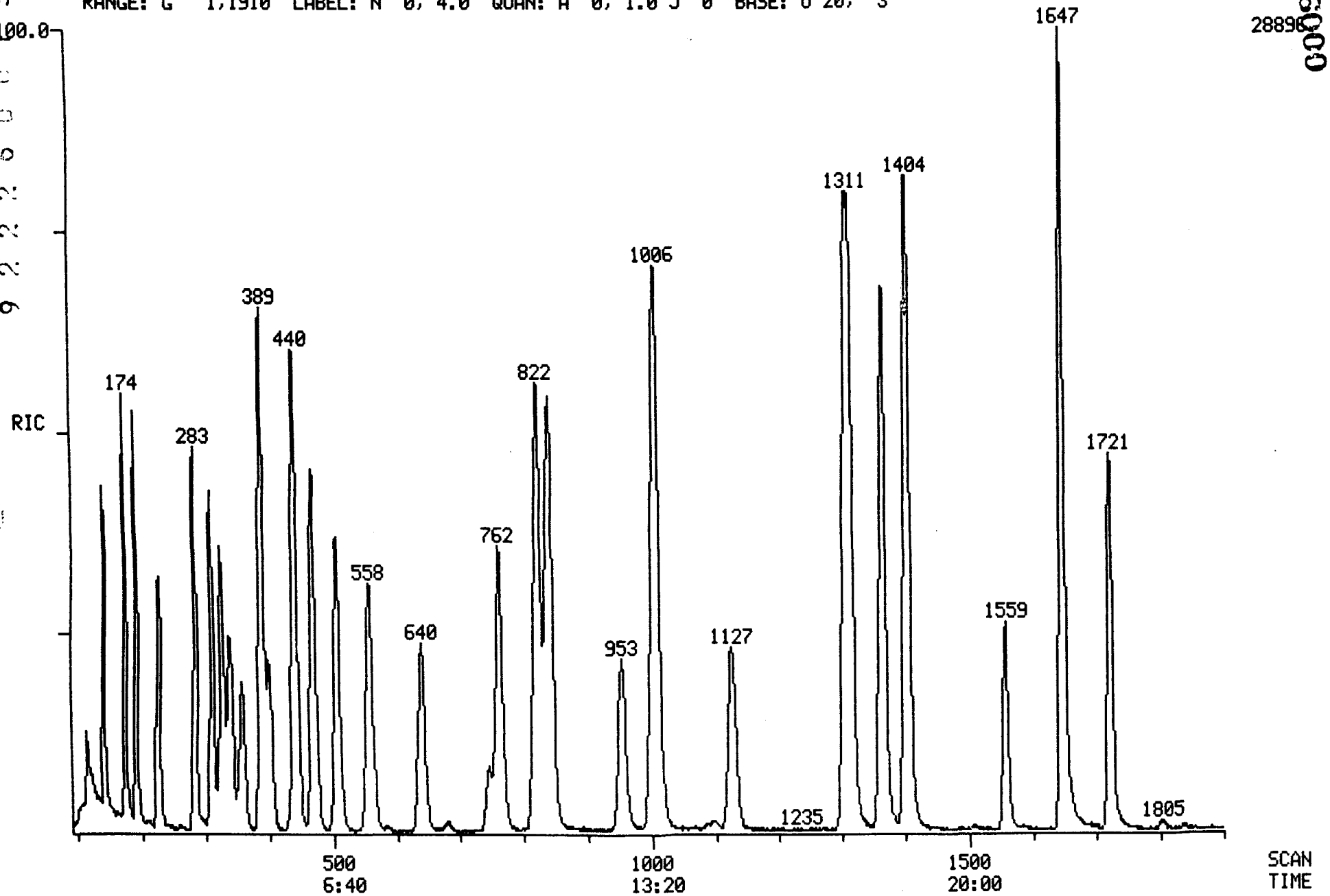
X109 ms

RIC
04/03/91 11:57:00
SAMPLE: 90907 (4.05G/10ML+SUR) 100UL +INT, MS
CONDS.: LC, DB-624
RANGE: G 1,1910 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0403LC05 #1 SCANS 90 TO 1900
CALI: B0403LC05 #3

28898

0009913



PROCEDURE: TCA DIAGNOSTIC REPORT 4/03/91 12:23:54
DATA FILE: B0403LC05
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	10	3	79	CLSRT1/CLSTC1
1	1	1	0	13	12	4	313	CLSRT2/CLSTC2
1	1	1	0	16	13	12	84	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 35 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >						< SAT >	< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	318	309	309	.	1	968	.	128	309	.	1
2	CS	2	-97	96	.	.	.	.	.	50	.	.	.
3	CS	3	-107	106	.	.	.	.	.	94	.	.	.
4	CS	4	-100	99	.	.	.	.	.	62	.	.	.
5	CS	5	-107	106	.	.	.	.	.	64	106	.	1
6	CS	6	177	173	174	1	1	980	.	84	174	.	1
7	CS	7	155	152	153	1	3	916	.	43	154	1	1
8	CS	8	-156	153	.	.	.	.	.	76	152	.	1
9	CS	9	-145	142	141	-1	1	985	.	96	141	.	1
10	CS	10	-231	225	226	1	1	987	.	63	226	.	1
11	CS	12	-333	324	324	.	1	988	.	83	324	.	1
12	CS	13	-346	336	337	1	1	991	.	97	337	.	1
13	CS	14	-116	115	115	.	1	991	.	101	114	-1	1
14	CS	15	-196	192	191	-1	1	976	.	96	191	.	1
15	CS	16	-291	283	283	.	1	993	.	96	283	.	1
16	CS	17	487	468	468	.	1	1000	.	114	469	1	1
17	CS	18	-416	400	400	.	1	969	.	62	400	.	1
18	CS	19	304	290	296	6	1	906	.	72	296	.	1
19	CS	20	-371	355	356	1	1	998	.	117	356	.	1
20	CS	21	-243	230	.	.	.	.	.	43	232	.	2
21	CS	22	-663	643	639	-4	1	996	.	83	639	.	1
22	CS	23	-580	561	559	-2	1	979	.	63	557	-2	1
23	CS	24	-787	765	762	-3	2	995	.	75	762	.	1
24	CS	25	-527	509	507	-2	1	991	.	130	506	-1	1
25	CS	27	-405	389	389	.	1	994	.	78	389	.	1
26	CS	28	-770	748	746	-2	1	997	.	106	746	.	1
27	CS	29	402	386	389	3	1	920	.	65	389	.	1
28	CS	43	-1591	1556	1559	3	2	987	.	173	1559	.	1
29	CS	30	1311	1305	1305	.	1	995	.	117	1305	.	1
30	CS	26	-1136	1127	1127	.	1	989	.	129	1127	.	1
31	CS	31	-1018	1007	1008	1	3	992	.	97	1008	.	1
32	CS	32	-966	954	953	-1	1	927	.	75	953	.	1
33	CS	33	-1142	1133	.	.	.	.	.	43	1137	.	2
34	CS	34	-852	838	.	.	.	.	.	43	838	.	1
35	CS	35	-1017	1006	1005	-1	1	975	.	164	1004	-1	1
36	CS	36	-1720	1722	1721	-1	1	996	.	83	1721	.	1
37	CS	37	855	841	840	-1	2	996	.	91	840	.	1
38	CS	38	-1320	1314	1313	-1	1	989	.	112	1313	.	1
39	CS	39	-1370	1365	1366	1	1	994	.	106	1365	-1	1
40	CS	40	-1522	1520	.	.	.	.	.	104	1520	.	1
41	CS	41	-1407	1403	1403	.	1	996	.	106	1403	.	1
42	CS	42	-1512	1510	1511	1	1	914	.	106	1510	-1	1
43	CS	44	1647	1647	1647	.	1	990	.	95	1647	.	1
44	CS	45	837	822	823	1	2	995	.	98	822	-1	1

TCA FINISHED, 35 FOUND
FINISHED AT: 4/03/91 12:27:30
Quantitation Report File: B0403LC05

Data: B0403LC05.TI
04/03/91 11:57:00
Sample: 90907 (4.05G/10ML+SUR) 100UL +INT, MS
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C030 METHYLENE CHLORIDE
3	C045 1,1-DICHLOROETHYLENE
4	C050 1,1-DICHLOROETHANE
5	C060 CHLOROFORM
6	C115 1,1,1-TRICHLOROETHANE
7	C053 TRANS-1,2-DICHLOROETHYLENE
8	C002 CIS-1,2-DICHLOROETHYLENE
9	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
10	C065 1,2-DICHLOROETHANE
11	C120 CARBON TETRACHLORIDE
12	C130 BROMODICHLOROMETHANE
13	C140 1,2-DICHLOROPROPANE
14	C143 CIS-1,3-DICHLOROPROPENE
15	C150 TRICHLOROETHYLENE
16	C165 BENZENE
17	C175 2-CHLOROETHYLVINYL ETHER
18	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
19	C180 BROMOFORM
20	CI20 D5-CHLOROBENZENE (INTERNAL)
21	C155 DIBROMOCHLOROMETHANE
22	C160 1,1,2-TRICHLOROETHANE
23	C172 TRANS-1,3-DICHLOROPROPENE
24	C220 TETRACHLOROETHYLENE
25	C225 1,1,2,2-TETRACHLOROETHANE
26	C230 TOLUENE
27	C235 CHLOROBENZENE
28	C240 ETHYLBENZENE
29	C250 M&P-XYLENES
30	CS10 BROMOFLUOROBENZENE (SURROGATE)
31	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	309	4:07	1	1.000	A BB	10386.	50.000 UG/G	2.96
2	84	174	2:19	1	0.563	A BB	13839.	42.004 UG/G	2.48
3	96	141	1:53	1	0.456	A BB	11823.	42.917 UG/G	2.54
4	63	226	3:01	1	0.731	A BB	29813.	45.524 UG/G	2.69
5	83	324	4:19	1	1.049	A BB	29271.	45.008 UG/G	2.66
6	97	337	4:30	1	1.091	A BB	19477.	46.021 UG/G	2.72
7	96	191	2:33	1	0.618	A BB	15912.	46.894 UG/G	2.77
8	96	283	3:46	1	0.916	A BB	19915.	54.249 UG/G	3.21
9	114	469	6:15	9	1.000	A BB	48193.	50.000 UG/G	2.96
10	62	400	5:20	9	0.853	A BB	16624.	51.498 UG/G	3.05
11	117	356	4:45	9	0.759	A BB	12656.	51.728 UG/G	3.06
12	83	639	8:31	9	1.362	A BB	25279.	50.222 UG/G	2.97

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
13	63	557	7:26	9	1.188	A BB	22726.	51.624	UG/G	3.05
14	75	762	10:10	9	1.625	A BB	36086.	64.946	UG/G	3.84
15	130	506	6:45	9	1.079	A BB	18586.	52.044	UG/G	3.08
16	78	389	5:11	9	0.829	A BB	50458.	49.170	UG/G	2.91
17	106	746	9:57	9	1.591	A BB	1342.	54.815	UG/G	3.24
18	65	389	5:11	9	0.829	A BB	12977.	93.307	%	5.52
19	173	1559	20:47	9	3.324	A BB	16831.	52.923	UG/G	3.13
20	117	1305	17:24	20	1.000	A BB	55117.	50.000	UG/G	2.96
21	129	1127	15:02	20	0.864	A BB	22360.	46.902	UG/G	2.77
22	97	1008	13:26	20	0.772	A BB	20047.	49.098	UG/G	2.90
23	75	953	12:42	20	0.730	A BB	20318.	39.467	UG/G	2.33
24	164	1004	13:23	20	0.769	A BB	19099.	51.179	UG/G	3.03
25	83	1721	22:57	20	1.319	A BB	36181.	52.129	UG/G	3.08
26	91	840	11:12	20	0.644	A BB	68463.	50.153	UG/G	2.97
27	112	1313	17:30	20	1.006	A BB	52718.	50.550	UG/G	2.99
28	106	1365	18:12	20	1.046	A BB	26886.	50.631	UG/G	2.99
29	106	1403	18:42	20	1.075	A BB	38286.	60.309	UG/G	3.57
30	95	1647	21:58	20	1.262	A BB	59400.	107.323	%	6.35
31	98	822	10:58	20	0.630	A BB	64613.	88.123	%	5.21

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:13	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	2:23	0.97	0.566	0.99	42.00	50.00	1.332	1.586	0.84
3	1:57	0.97	0.462	0.99	42.92	50.00	1.138	1.326	0.86
4	3:04	0.98	0.728	1.00	45.52	50.00	2.871	3.153	0.91
5	4:25	0.98	1.047	1.00	45.01	50.00	2.818	3.131	0.90
6	4:35	0.98	1.089	1.00	46.02	50.00	1.875	2.037	0.92
7	2:37	0.97	0.620	1.00	46.89	50.00	1.532	1.634	0.94
8	3:51	0.98	0.915	1.00	54.25	58.70	1.633	1.767	0.92
9	6:22	0.98	1.000	1.00	50.00	50.00	1.000	1.000	1.00
10	5:27	0.98	0.856	1.00	51.50	50.00	0.345	0.335	1.03
11	4:51	0.98	0.762	1.00	51.73	50.00	0.263	0.254	1.03
12	8:40	0.98	1.360	1.00	50.22	50.00	0.525	0.522	1.00
13	7:35	0.98	1.190	1.00	51.62	50.00	0.472	0.457	1.03
14	10:16	0.99	1.611	1.01	64.95	60.00	0.624	0.576	1.08
15	6:54	0.98	1.084	1.00	52.04	50.00	0.386	0.371	1.04
16	5:18	0.98	0.833	1.00	49.17	50.00	1.047	1.065	0.98
17	10:05	0.99	1.582	1.01	54.81	50.00	0.028	0.025	1.10
18	5:18	0.98	0.831	1.00	93.31	100.00	0.135	0.144	0.93
19	20:47	1.00	3.262	1.02	52.92	50.00	0.349	0.330	1.06
20	17:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
21	15:06	0.99	0.866	1.00	46.90	50.00	0.406	0.432	0.94
22	13:31	0.99	0.775	1.00	49.10	50.00	0.364	0.370	0.98
23	12:49	0.99	0.734	0.99	39.47	40.00	0.461	0.467	0.99
24	13:30	0.99	0.773	1.00	51.18	50.00	0.347	0.339	1.02
25	22:57	1.00	1.315	1.00	52.13	50.00	0.656	0.630	1.04
26	11:20	0.99	0.649	0.99	50.15	50.00	1.242	1.238	1.00
27	17:34	1.00	1.006	1.00	50.55	50.00	0.956	0.946	1.01
28	18:14	1.00	1.045	1.00	50.63	50.00	0.488	0.482	1.01
29	18:45	1.00	1.074	1.00	60.31	60.60	0.573	0.576	1.00
30	21:58	1.00	1.259	1.00	107.32	100.00	0.539	0.502	1.07
31	11:05	0.99	0.635	0.99	88.12	100.00	0.586	0.665	0.88

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109MSD

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: SPFLD Case No.: SAUGET SAS No.: _____ SDG No.: D19089

Matrix: (soil/water) SOIL Lab Sample ID: D190907MSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: B0403LC06

Level: (low/med) MED Date Received: 03/28/91

% Moisture: not dec. ____ Date Analyzed: 04/03/91

Column: (pack/cap) WIDE Dilution Factor: 1.2

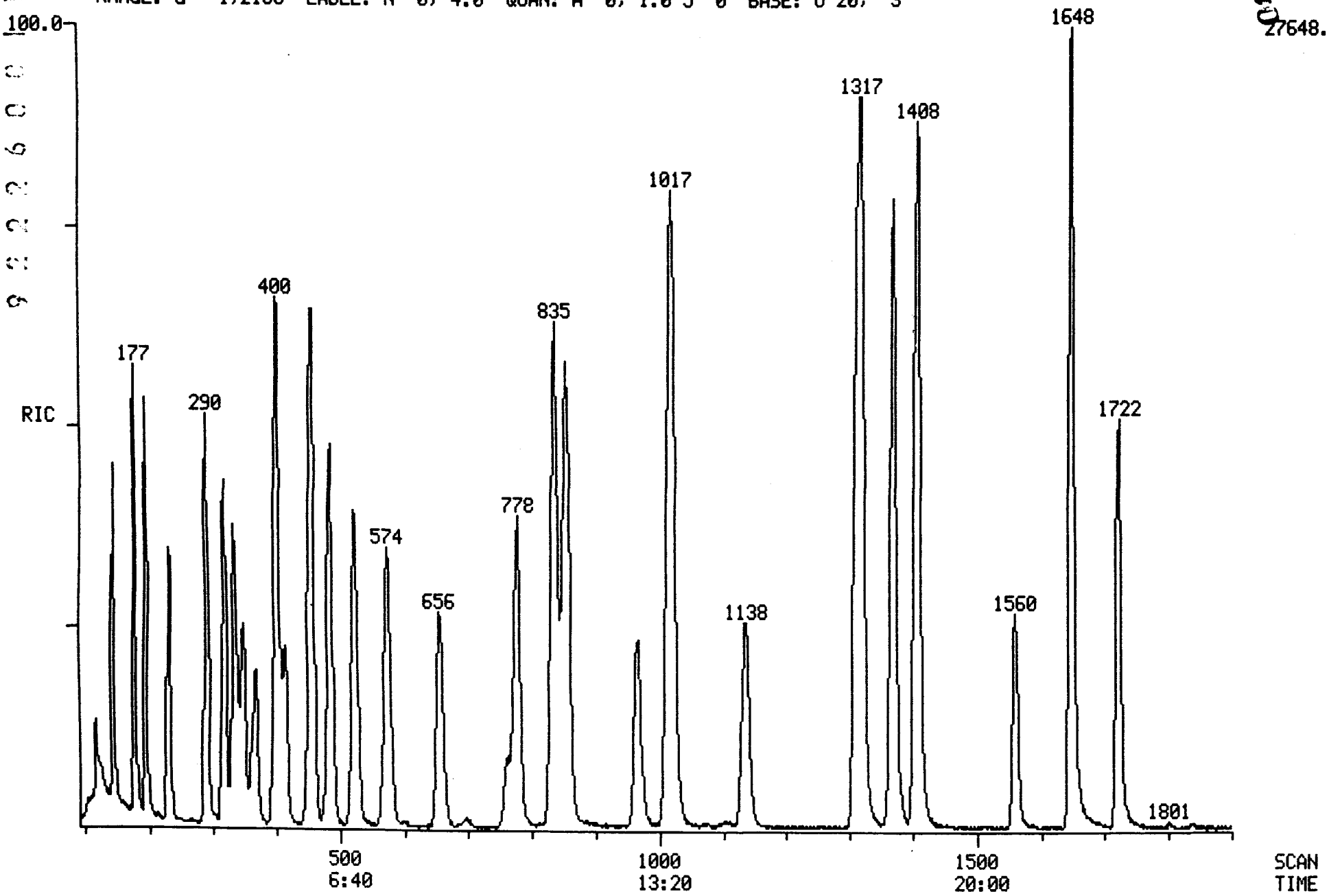
9222601593

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1200	U
74-83-9	Bromomethane	1200	U
75-01-4	Vinyl Chloride	1200	U
75-00-3	Chloroethane	1200	U
75-09-2	Methylene Chloride	44	J
67-64-1	Acetone	1200	U
75-15-0	Carbon Disulfide	620	U
75-35-4	1,1-Dichloroethene	620	U
75-34-3	1,1-Dichloroethane	48	J
540-59-0	1,2-Dichloroethene (total)	49	J
67-66-3	Chloroform	48	J
107-06-2	1,2-Dichloroethane	50	J
78-93-3	2-Butanone	1200	U
71-55-6	1,1,1-Trichloroethane	48	J
56-23-5	Carbon Tetrachloride	51	J
108-05-4	Vinyl Acetate	1200	U
75-27-4	Bromodichloromethane	51	J
78-87-5	1,2-Dichloropropane	50	J
10061-01-5	cis-1,3-Dichloropropene	64	J
79-01-6	Trichloroethene	620	U
124-48-1	Dibromochloromethane	49	J
79-00-5	1,1,2-Trichloroethane	51	J
71-43-2	Benzene	620	U
10061-02-6	trans-1,3-Dichloropropene	40	J
75-25-2	Bromoform	55	J
108-10-1	4-Methyl-2-Pentanone	1200	U
591-78-6	2-Hexanone	1200	U
127-18-4	Tetrachloroethene	50	J
79-34-5	1,1,2,2-Tetrachloroethane	52	J
108-88-3	Toluene	620	U
108-90-7	Chlorobenzene	620	U
100-41-4	Ethylbenzene	50	J
100-42-5	Styrene	620	U
1330-20-7	Xylene (total)	61	J

X109msD

RIC
04/03/91 12:37:00
SAMPLE: 90907, 100UL+INT, MSD
CONDS.: LC, DB-624
RANGE: G 1,2100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: B0403LC06 #1 SCANS 90 TO 1900
CALI: B0403LC06 #3



27648.

PROCEDURE: TCA DIAGNOSTIC REPORT 4/03/91 13:10:44
DATA FILE: B0403LC06
REFERENCE: CLSTAB11
NAME LIST: CLSDRIVER INITIALIZATION OPTION: 2 PROCESSING OPTION: 3
REPORT: CLSRT1

< ---- STANDARDS ----- >				< --- PLUS UNKNOWNS --- >				< - LIST NAMES - >
PROC	USED	POSS	RMS	PROC	USED	POSS	RMS	STANDARD/UNKNOWN
1	1	1	0	15	10	6	51	CLSRT1/CLSTC1
1	1	1	0	13	12	2	418	CLSRT2/CLSTC2
1	1	1	0	16	12	12	129	CLSRT3/CLSTC3

44 COMPOUNDS PROCESSED, 34 FOUND

< COMPOUND >			< ---------- SEARCH ---------- >					< SAT >		< ------ CHRO ------- >			
NO	LIB	ENTRY	REF	PRED	SEL	DELTA	PEAKS	FIT	PEAKS	M/Z	TOP	DELTA	PEAKS
1	CS	1	309	318	318	.	1	979	.	128	317	-1	1
2	CS	2	-96	96	.	.	.	.	.	50	.	.	.
3	CS	3	-106	106	.	.	.	.	.	94	.	.	.
4	CS	4	-99	99	.	.	.	.	.	62	.	.	.
5	CS	5	-106	106	.	.	.	.	.	64	111	.	1
6	CS	6	174	177	177	.	1	983	.	84	177	.	1
7	CS	7	153	155	155	.	3	983	.	43	155	.	1
8	CS	8	-153	155	.	.	.	.	.	76	.	.	.
9	CS	9	141	143	143	.	1	982	.	96	143	.	1
10	CS	10	226	231	230	-1	1	989	.	63	230	.	1
11	CS	12	324	333	333	.	1	993	.	83	333	.	1
12	CS	13	337	346	346	.	1	993	.	97	346	.	1
13	CS	14	115	116	116	.	2	991	.	101	116	.	1
14	CS	15	191	195	195	.	1	980	.	96	195	.	1
15	CS	16	283	290	290	.	1	992	.	96	290	.	1
16	CS	17	468	484	484	.	1	998	.	114	484	.	1
17	CS	18	400	413	412	-1	1	968	.	62	412	.	1
18	CS	19	296	310	304	-6	1	971	.	72	304	.	1
19	CS	20	356	370	366	-4	1	996	.	117	366	.	1
20	CS	21	-230	245	.	.	.	.	.	43	250	.	3
21	CS	22	639	651	656	5	1	992	.	83	656	.	1
22	CS	23	559	571	574	3	1	976	.	63	575	1	1
23	CS	24	762	773	778	5	1	993	.	75	778	.	1
24	CS	25	507	520	523	3	1	986	.	130	523	.	1
25	CS	27	389	403	400	-3	1	992	.	78	400	.	1
26	CS	28	746	757	760	3	2	995	.	106	763	3	1
27	CS	29	389	403	400	-3	1	924	.	65	400	.	1
28	CS	43	1559	1565	1560	-5	1	985	.	173	1559	-1	1
29	CS	30	1305	1311	1311	.	1	999	.	117	1310	-1	1
30	CS	26	1127	1136	1135	-1	2	986	.	129	1135	.	1
31	CS	31	1008	1018	1018	.	2	990	.	97	1019	1	1
32	CS	32	953	964	967	3	1	928	.	75	967	.	1
33	CS	33	-1133	1142	.	.	.	.	.	43	1138	.	1
34	CS	34	-838	851	.	.	.	.	.	43	851	.	1
35	CS	35	1005	1015	1016	1	1	982	.	164	1016	.	1
36	CS	36	1721	1721	1722	1	3	993	.	83	1723	1	1
37	CS	37	840	853	853	.	1	995	.	91	853	.	1
38	CS	38	1313	1319	1318	-1	1	988	.	112	1319	1	1
39	CS	39	1366	1371	1369	-2	1	997	.	106	1369	.	1
40	CS	40	-1520	1523	.	.	.	.	.	104	.	.	.
41	CS	41	1403	1408	1408	.	1	996	.	106	1407	-1	1
42	CS	42	1511	1514	.	.	.	.	.	106	1511	.	2
43	CS	44	1647	1648	1648	.	1	988	.	95	1648	.	1
44	CS	45	823	836	835	-1	1	995	.	98	835	.	1

000919

TCA FINISHED, 34 FOUND
FINISHED AT: 4/03/91 13:14:20
Quantitation Report File: B0403LC06

Data: B0403LC06.TI
04/03/91 12:37:00
Sample: 90907, 100UL+INT, MSD
Conds.: LC, DB-624
Formula: Instrument: 5100 Weight: 0.004
Submitted by: Analyst: LC Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE (INTERNAL)
2	C030 METHYLENE CHLORIDE
3	C045 1,1-DICHLOROETHYLENE
4	C050 1,1-DICHLOROETHANE
5	C060 CHLOROFORM
6	C115 1,1,1-TRICHLOROETHANE
7	C053 TRANS-1,2-DICHLOROETHYLENE
8	C002 CIS-1,2-DICHLOROETHYLENE
9	CI10 1,4-DIFLUOROBENZENE (INTERNAL)
10	C065 1,2-DICHLOROETHANE
11	C120 CARBON TETRACHLORIDE
12	C130 BROMODICHLOROMETHANE
13	C140 1,2-DICHLOROPROPANE
14	C143 CIS-1,3-DICHLOROPROPENE
15	C150 TRICHLOROETHYLENE
16	C165 BENZENE
17	C175 2-CHLOROETHYLVINYL ETHER
18	CS15 D4-1,2-DICHLOROETHANE (SURROGATE)
19	C180 BROMOFORM
20	CI20 D5-CHLOROBENZENE (INTERNAL)
21	C155 DIBROMOCHLOROMETHANE
22	C160 1,1,2-TRICHLOROETHANE
23	C172 TRANS-1,3-DICHLOROPROPENE
24	C220 TETRACHLOROETHYLENE
25	C225 1,1,2,2-TETRACHLOROETHANE
26	C230 TOLUENE
27	C235 CHLOROBENZENE
28	C240 ETHYLBENZENE
29	C250 M&P-XYLENES
30	CS10 BROMOFLUOROBENZENE (SURROGATE)
31	CS05 D8-TOLUENE (SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	317	4:14	1	1.000	A BB	10214.	50.000 UG/G	2.95
2	84	177	2:22	1	0.558	A BB	14182.	43.771 UG/G	2.58
3	96	143	1:54	1	0.451	A BB	12508.	46.168 UG/G	2.72
4	63	230	3:04	1	0.726	A BB	30621.	47.544 UG/G	2.80
5	83	333	4:26	1	1.050	A BB	31044.	48.539 UG/G	2.86
6	97	346	4:37	1	1.091	A BB	19875.	47.752 UG/G	2.82
7	96	195	2:36	1	0.615	A BB	16329.	48.933 UG/G	2.89
8	96	290	3:52	1	0.915	A BB	20729.	57.419 UG/G	3.39
9	114	484	6:27	9	1.000	A BB	49694.	50.000 UG/G	2.95
10	62	412	5:30	9	0.851	A BB	16702.	50.179 UG/G	2.96
11	117	366	4:53	9	0.756	A BB	12878.	51.046 UG/G	3.01
12	83	656	8:45	9	1.355	A BB	26593.	51.236 UG/G	3.02

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
13	63	575	7:40	9	1.188	A BB	22772.	50.169 UG/G	2.96
14	75	778	10:22	9	1.607	A BB	36644.	63.958 UG/G	3.77
15	130	523	6:58	9	1.081	A BB	19263.	52.311 UG/G	3.08
16	78	400	5:20	9	0.826	A BB	52405.	49.526 UG/G	2.92
17	106	763	10:10	9	1.576	A BB	1352.	53.556 UG/G	3.16
18	65	400	5:20	9	0.826	A BB	12788.	89.171 %	5.26
19	173	1559	20:47	9	3.221	A BB	18053.	55.053 UG/G	3.25
20	117	1310	17:28	20	1.000	A BB	56299.	50.000 UG/G	2.95
21	129	1135	15:08	20	0.866	A BB	23866.	49.009 UG/G	2.89
22	97	1019	13:35	20	0.778	A BB	21405.	51.323 UG/G	3.03
23	75	967	12:54	20	0.738	A BB	21136.	40.195 UG/G	2.37
24	164	1016	13:33	20	0.776	A BB	19245.	50.486 UG/G	2.98
25	83	1723	22:58	20	1.315	A BB	36702.	51.768 UG/G	3.05
26	91	853	11:22	20	0.651	A BB	70497.	50.558 UG/G	2.98
27	112	1319	17:35	20	1.007	A BB	53711.	50.421 UG/G	2.97
28	106	1369	18:15	20	1.045	A BB	27364.	50.449 UG/G	2.97
29	106	1407	18:46	20	1.074	A BB	39619.	61.099 UG/G	3.60
30	95	1648	21:58	20	1.258	A BB	56787.	100.447 %	5.92
31	98	835	11:08	20	0.637	A BB	62814.	83.870 %	4.95

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	4:13	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	2:23	0.99	0.566	0.99	43.77	50.00	1.389	1.586	0.88
3	1:57	0.98	0.462	0.98	46.17	50.00	1.225	1.326	0.92
4	3:04	1.00	0.728	1.00	47.54	50.00	2.998	3.153	0.95
5	4:25	1.01	1.047	1.00	48.54	50.00	3.039	3.131	0.97
6	4:35	1.01	1.089	1.00	47.75	50.00	1.946	2.037	0.96
7	2:37	0.99	0.620	0.99	48.93	50.00	1.599	1.634	0.98
8	3:51	1.00	0.915	1.00	57.42	58.70	1.729	1.767	0.98
9	6:22	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
10	5:27	1.01	0.856	0.99	50.18	50.00	0.336	0.335	1.00
11	4:51	1.01	0.762	0.99	51.05	50.00	0.259	0.254	1.02
12	8:40	1.01	1.360	1.00	51.24	50.00	0.535	0.522	1.02
13	7:35	1.01	1.190	1.00	50.17	50.00	0.458	0.457	1.00
14	10:16	1.01	1.611	1.00	63.96	60.00	0.614	0.576	1.07
15	6:54	1.01	1.084	1.00	52.31	50.00	0.388	0.371	1.05
16	5:18	1.01	0.833	0.99	49.53	50.00	1.055	1.065	0.99
17	10:05	1.01	1.582	1.00	53.56	50.00	0.027	0.025	1.07
18	5:18	1.01	0.831	1.00	89.17	100.00	0.129	0.144	0.89
19	20:47	1.00	3.262	0.99	55.05	50.00	0.363	0.330	1.10
20	17:27	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
21	15:06	1.00	0.866	1.00	49.01	50.00	0.424	0.432	0.98
22	13:31	1.00	0.775	1.00	51.32	50.00	0.380	0.370	1.03
23	12:49	1.01	0.734	1.01	40.20	40.00	0.469	0.467	1.00
24	13:30	1.00	0.773	1.00	50.49	50.00	0.342	0.339	1.01
25	22:57	1.00	1.315	1.00	51.77	50.00	0.652	0.630	1.04
26	11:20	1.00	0.649	1.00	50.56	50.00	1.252	1.238	1.01
27	17:34	1.00	1.006	1.00	50.42	50.00	0.954	0.946	1.01
28	18:14	1.00	1.045	1.00	50.45	50.00	0.486	0.482	1.01
29	18:45	1.00	1.074	1.00	61.10	60.60	0.581	0.576	1.01
30	21:58	1.00	1.259	1.00	100.45	100.00	0.504	0.502	1.00
31	11:05	1.00	0.635	1.00	83.87	100.00	0.558	0.665	0.84