182179

AnalytiKEM An American NuKEM Company

AnalytiKEM Inc.
28 Springdale Road
Cherry Hill, NJ 08003
609/751-1122
215/923-2068

September 14, 1987

Ampsec

NJDEP/DHWM/BSA
65 Prospect Street
Trenton, NJ 08625

Attention: Al Pleva

Reference: Test Report No. A14558

This report covers the analysis of two (2) aqueous and nine (9) nonaqueous samples submitted to AnalytiKEM on August 11, 1987. The following analyses were requested:

Priority Pollutant Analyses

- Volatile Organics
- Semivolatile Organics
- EPA/NIH/NBS Mass Spectral Library Search
- Pesticides and Polychlorinated Biphenyls
- Metals, Cyanide and Phenols

Other Analyses

- Total Solids

NJ Certification No. NJ 04012

Signature Michael Shmookler

Name Michael Shmookler, Ph.D.

Title Technical Director

Table of Contents

		Page
I.	Sample Designation	1
II.	Methodology	2 - 3
III.	Laboratory Chronicle	4
IV.	Nonconformance Summary	5 - 14
V.	Analytical Results	15 - 44
VI.	Quality Assurance Data	45 - 55
VII.	Data Package	56 - 604

I. Sample Designation

Client Designation	AnalytiKEM Designation	Matrix	Date Sampled	Date Submitted to Laboratory
BSA 0811745	A14558-1	Nonaqueous	8/11/87	8/11/87
BSA 0811746	A14558-2	Nonaqueous	8/11/87	8/11/87
BSA 0811747	A14558-3	Nonaqueous	8/11/87	8/11/87
BSA 0811748	A14558-4	Nonaqueous	8/11/87	8/11/87
BAS 0811749	A14558-5	Nonaqueous	8/11/87	8/11/87
BSA 0811750	A14558-6	Nonaqueous	8/11/87	8/11/87
BSA 0811751	A14558-7	Nonaqueous	8/11/87	8/11/87
BSA 0811752	A14558-8	Nonaqueous	8/11/87	8/11/87
BSA 0811753	A14558-9	Nonaqueous	8/11/87	8/11/87
BSA 0811754 Field Blank	A14558-10	Aqueous	8/11/87	8/11/87
BSA 0811755 Trip Blank	A14558-11	Aqueous	8/11/87	8/11/87

II. Methodology

Volatiles

Aqueous

- Method 624, Purgeables, Federal Register, Vol 49, No. 209, October 26, 1984.

Non-Aqueous

- Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, November 1986.
- Method 8240, Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW846, Third Edition, USEPA, November 1986.
- USEPA Contract Laboratory Program, Statement of Work for Organics Analysis, Contract # WA-87K236, October 1986.

Semivolatiles

Aqueous

- Method 625, Base/Neutrals and Acids, Federal Register,Vol. 49, No. 209, October 26, 1984.

Non-Aqueous

- Method 3550, Sonication Extraction, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW 846, Third Edition, USEPA, November 1986.
- Method 8270, Gas Chromatography/Mass Spectrometry for Semivolatile Organics: Capillary Column Technique, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, November 1986.

II. Methodology (CONT'D)

Pesticides and/or PCBs

Aqueous

- Method 608, Organochlorine Pesticides and PCBs, Federal Register, Vol. 49, No. 209, October 26, 1984.

Non-Aqueous

- Method 3550, Sonication Extraction, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, November 1986.

- Method 8080, Organochlorine Pesticides and PCBs, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Third Edition, USEPA, November 1986.

Inorganic Parameters

Miscellaneous Parameters

Aqueous and nonaqueous samples are prepared and analyzed according to the following publications:

- EPA Test Methods for Evaluating Solid Wastes-Physical/Chemical Methods-SW846, 1982.

- Standard Methods for the Examination of Water and Wastewater. 15th edition.

III. Laboratory Chronicle

Date of Sampling 8/11/87

Date of Preservation Preserved by client

Laboratory Receiver and Date Bernadette Fini 8/11/87

Extractions

Volatile Organics 8/14/87

Semivolatile Organics 8/18 and 8/24/87

Pesticides and Polychlorinated Biphenyls 8/18/87

Organic Analyses

Volatile Organics 8/17 - 8/20/87

Semivolatile Organics 8/25 and 8/26/87

Pesticides and Polychlorinated Biphenyls 8/26 and 8/29/87

Supervisor(s) Review and Approval Patricia A. Anderson
Edward J. Palmer Jr.

Inorganic Analyses

Metals 8/22 - 8/25/87

Cyanide 8/25/87

Phenolics 9/1/87

Total Solids 8/21/87

Supervisor Review and Approval Patricia A. Anderson

AnalytiKEM

IV. Nonconformance Summary

Volatile Organics

Samples # A14558 QC

I. Initial Calibration Curve

_____ 1. Maximum %RSD not met for _____ out of 6 CCC's.
_____ 2. Minimum response factor not met for _____ out of 5 SPCC's.
__X__ 3. %RSD >30 for __1__ out of __22__ non-CCC's.
_____ 4. Response factor <0.05 for _____ out of _____ non-SPCC's.

II. Calibration Curve Check Standard

_____ 5. Maximum %D not met for _____ out of 6 CCC's.
_____ 6. Minimum response factor not met for _____ out of 5 SPCC's.
_____ 7. %D >25 for _____ out of _____ non-CCC's.
_____ 8. Response factor <0.05 for _____ out of _____ non-SPCC's.

III. Surrogate Recoveries

_____ 9. Recovery limits not met for ____ of 3 surrogates for sample(s) _____.
_____ 10. Recovery limits not met for ____ of 3 surrogates for sample(s) _____.

Comments _____

_____

IV. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

_____ 11. Recovery limits not met for ____ out of ____ spiked compounds in MS.
__X__ 12. Recovery limits not met for __4__ out of __28__ spiked compounds in MSD.
__X__ 13. Maximum %RPD not met for __3__ out of __28__ compounds in MS/MSD.
_____ 14. Recovery data not available for the following parameters _____ due to high concentration of these analytes in the sample.

Comments _____

_____

V. Samples

_____ 15. High detection limits due to dilution for sample(s) _____.
_____ 16. High detection limits due to matrix interference for sample(s) _____.
_____ 17 Holding times not adhered to for sample(s) _____.
_____ 18. _____ out of _____ targetted compounds present in matrix blank.
_____ 19. _____ nontargetted compounds present in matrix blank.
_____ 20. Sample(s) _____ were submitted with headspace in sample vial.
_____ 21. Sample(s) not submitted in vials.

Comments _____

_____

AnalytiKEM

IV. Nonconformance Summary (CONT'D)

Volatile Organics

Samples # A14558-4 QC, 8

I. Initial Calibration Curve

_____ 1. Maximum %RSD not met for _____ out of 6 CCC's.
_____ 2. Minimum response factor not met for _____ out of 5 SPCC's.
__X__ 3. %RSD >30 for __1__ out of __22__ non-CCC's.
_____ 4. Response factor <0.05 for _____ out of _____ non-SPCC's.

II. Calibration Curve Check Standard

_____ 5. Maximum %D not met for _____ out of 6 CCC's.
_____ 6. Minimum response factor not met for _____ out of 5 SPCC's.
_____ 7. %D >25 for _____ out of _____ non-CCC's.
_____ 8. Response factor <0.05 for _____ out of _____ non-SPCC's.

III. Surrogate Recoveries

_____ 9. Recovery limits not met for ____ of 3 surrogates for sample(s) _____.
_____ 10. Recovery limits not met for ____ of 3 surrogates for sample(s) _____.

Comments _____

_____

IV. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

_____ 11. Recovery limits not met for ____ out of ____ spiked compounds in MS.
_____ 12. Recovery limits not met for ____ out of ____ spiked compounds in MSD.
__X__ 13. Maximum %RPD not met for __1__ out of __28__ compounds in MS/MSD.
_____ 14. Recovery data not available for the following parameters _____ due to high concentration of these analytes in the sample.

Comments _____

_____

V. Samples

_____ 15. High detection limits due to dilution for sample(s) _____.
_____ 16. High detection limits due to matrix interference for sample(s) _____.
_____ 17 Holding times not adhered to for sample(s) _____.
_____ 18. _____ out of _____ targetted compounds present in matrix blank.
_____ 19. _____ nontargetted compounds present in matrix blank.
_____ 20. Sample(s) _____ were submitted with headspace in sample vial.
_____ 21. Sample(s) not submitted in vials.

Comments _____

_____

AnalytiKEM

IV. Nonconformance Summary (CONT'D)

Volatile Organics

Samples # A14558-10,11,4

I. Initial Calibration Curve

_____ 1. Maximum %RSD not met for _____ out of 6 CCC's.
_____ 2. Minimum response factor not met for _____ out of 5 SPCC's.
__X__ 3. %RSD >30 for __1__ out of __22__ non-CCC's.
_____ 4. Response factor <0.05 for _____ out of _____ non-SPCC's.

II. Calibration Curve Check Standard

_____ 5. Maximum %D not met for _____ out of 6 CCC's.
_____ 6. Minimum response factor not met for _____ out of 5 SPCC's.
_____ 7. %D >25 for _____ out of _____ non-CCC's.
_____ 8. Response factor <0.05 for _____ out of _____ non-SPCC's.

III. Surrogate Recoveries

_____ 9. Recovery limits not met for ____ of 3 surrogates for sample(s) _____.
_____ 10. Recovery limits not met for ____ of 3 surrogates for sample(s) _____.

Comments _____

_____

IV. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

_____ 11. Recovery limits not met for ____ out of ____ spiked compounds in MS.
_____ 12. Recovery limits not met for ____ out of ____ spiked compounds in MSD.
_____ 13. Maximum %RPD not met for ____ out of ____ compounds in MS/MSD.
_____ 14. Recovery data not available for the following parameters _____ due to high concentration of these analytes in the sample.

Comments _____

_____

V. Samples

_____ 15. High detection limits due to dilution for sample(s) _____.
_____ 16. High detection limits due to matrix interference for sample(s) _____.
_____ 17 Holding times not adhered to for sample(s) _____.
_____ 18. _____ out of _____ targetted compounds present in matrix blank.
_____ 19. _____ nontargetted compounds present in matrix blank.
_____ 20. Sample(s) _____ were submitted with headspace in sample vial.
_____ 21. Sample(s) not submitted in vials.

Comments _____

_____

AnalytiKEM

IV. Nonconformance Summary (CONT'D)

Volatile Organics

Samples # A14558-1,2,3

I. Initial Calibration Curve

_____ 1. Maximum %RSD not met for _____ out of 6 CCC's.
_____ 2. Minimum response factor not met for _____ out of 5 SPCC's.
__X__ 3. %RSD >30 for __1__ out of __22__ non-CCC's.
_____ 4. Response factor <0.05 for _____ out of _____ non-SPCC's.

II. Calibration Curve Check Standard

_____ 5. Maximum %D not met for _____ out of 6 CCC's.
_____ 6. Minimum response factor not met for _____ out of 5 SPCC's.
_____ 7. %D >25 for _____ out of _____ non-CCC's.
_____ 8. Response factor <0.05 for _____ out of _____ non-SPCC's.

III. Surrogate Recoveries

_____ 9. Recovery limits not met for ____ of 3 surrogates for sample(s) _____.
_____ 10. Recovery limits not met for ____ of 3 surrogates for sample(s) _____.

Comments _____

_____

IV. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

_____ 11. Recovery limits not met for ____ out of ____ spiked compounds in MS.
_____ 12. Recovery limits not met for ____ out of ____ spiked compounds in MSD.
_____ 13. Maximum %RPD not met for ____ out of ____ compounds in MS/MSD.
_____ 14. Recovery data not available for the following parameters _____ due to high concentration of these analytes in the sample.

Comments _____

_____

V. Samples

_____ 15. High detection limits due to dilution for sample(s) _____.
_____ 16. High detection limits due to matrix interference for sample(s) _____.
_____ 17 Holding times not adhered to for sample(s) _____.
_____ 18. _____ out of _____ targetted compounds present in matrix blank.
_____ 19. _____ nontargetted compounds present in matrix blank.
_____ 20. Sample(s) _____ were submitted with headspace in sample vial.
_____ 21. Sample(s) not submitted in vials.

Comments _____

_____

AnalytiKEM

IV. Nonconformance Summary (CONT'D)

Volatile Organics

A14558-5,6,6R
Samples # 7,7R,9

I. Initial Calibration Curve

_____ 1. Maximum %RSD not met for _____ out of 6 CCC's.
_____ 2. Minimum response factor not met for _____ out of 5 SPCC's.
__X__ 3. %RSD >30 for __1__ out of __22__ non-CCC's.
_____ 4. Response factor <0.05 for _____ out of _____ non-SPCC's.

II. Calibration Curve Check Standard

_____ 5. Maximum %D not met for _____ out of 6 CCC's.
_____ 6. Minimum response factor not met for _____ out of 5 SPCC's.
__X__ 7. %D >25 for __3__ out of __22__ non-CCC's.
_____ 8. Response factor <0.05 for _____ out of _____ non-SPCC's.

III. Surrogate Recoveries

__X__ 9. Recovery limits not met for __1__ of 3 surrogates for sample(s) __6R__.
__X__ 10. Recovery limits not met for __2__ of 3 surrogates for sample(s) __6R3,7R__.

Comments _____

_____

IV. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

_____ 11. Recovery limits not met for ____ out of ____ spiked compounds in MS.
_____ 12. Recovery limits not met for ____ out of ____ spiked compounds in MSD.
_____ 13. Maximum %RPD not met for ____ out of ____ compounds in MS/MSD.
_____ 14. Recovery data not available for the following parameters _____ due to high concentration of these analytes in the sample.

Comments _____

_____

V. Samples

_____ 15. High detection limits due to dilution for sample(s) _____.
_____ 16. High detection limits due to matrix interference for sample(s) _____.
_____ 17 Holding times not adhered to for sample(s) _____.
_____ 18. _____ out of _____ targetted compounds present in matrix blank.
_____ 19. _____ nontargetted compounds present in matrix blank.
_____ 20. Sample(s) _____ were submitted with headspace in sample vial.
_____ 21. Sample(s) not submitted in vials.

Comments _____

_____

AnalytiKEM

IV. Nonconformance Summary (CONT'D)

Semivolatile Organics

Samples # 14458-3 Spk, Dup, Blk, 10

I. Initial Calibration Curve

_____ 1. Maximum %RSD not met for _____ out of _____ CCC's.
_____ 2. Minimum response factor not met for _____ out of _____ SPCC's.
_____ 3. %RSD >30 for _____ out of _____ non-CCC's.
_____ 4. Response factor <0.05 for _____ out of _____ non-SPCC's.

II. Calibration Curve Check Standard

_____ 5. Maximum %D not met for _____ out of _____ CCC's.
_____ 6. Minimum response factor not met for _____ out of _____ SPCC's.
__X__ 7. %D >25 for 3 out of 58 non-CCC's.
_____ 8. Response factor <0.05 for _____ out of _____ non-SPCC's.

III. Surrogate Recoveries

__X__ 9. Recovery limits not met for 1 of 6 surrogates for sample(s) #10.
_____ 10. Recovery limits not met for ____ of ____ surrogates for sample(s) _____.

Comments _____

_____

IV. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

__X__ 11. Recovery limits not met for 1 out of 11 spiked compounds in MS.
__X__ 12. Recovery limits not met for 1 out of 11 spiked compounds in MSD.
__X__ 13. Maximum %RPD not met for 1 out of 11 compounds in MS/MSD.
_____ 14. Recovery data not available for the following parameters _____ due to high concentration of these analytes in the sample.

Comments _____

_____

V. Samples

_____ 15. High detection limits due to dilution for sample(s) _____.
_____ 16. High detection limit due to matrix interference for sample(s) _____.
_____ 17. High detection limits due to limited sample quantity for sample(s) _____.
_____ 18 Holding times not adhered to for samples _____.
__X__ 19. 1 out of 65 targetted compounds present in matrix blank.
_____ 20. 2 nontargetted compounds present in matrix blank.
_____ 21. Sample(s) _____ not submitted in proper containers.

Comments _____

_____

AnalytiKEM

IV. Nonconformance Summary (CONT'D)

Semivolatile Organics

Samples # 14458-8, 9

I. Initial Calibration Curve

_____ 1. Maximum %RSD not met for _____ out of _____ CCC's.
_____ 2. Minimum response factor not met for _____ out of _____ SPCC's.
_____ 3. %RSD >30 for _____ out of _____ non-CCC's.
_____ 4. Response factor <0.05 for _____ out of _____ non-SPCC's.

II. Calibration Curve Check Standard

_____ 5. Maximum %D not met for _____ out of _____ CCC's.
_____ 6. Minimum response factor not met for _____ out of _____ SPCC's.
__X__ 7. %D >25 for 2 out of 58 non-CCC's.
_____ 8. Response factor <0.05 for _____ out of _____ non-SPCC's.

III. Surrogate Recoveries

_____ 9. Recovery limits not met for ____ of ____ surrogates for sample(s) _____.
_____ 10. Recovery limits not met for ____ of ____ surrogates for sample(s) _____.

Comments _____

_____

IV. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

__X__ 11. Recovery limits not met for 1 out of 11 spiked compounds in MS.
__X__ 12. Recovery limits not met for 1 out of 11 spiked compounds in MSD.
__X__ 13. Maximum %RPD not met for 1 out of 11 compounds in MS/MSD.
_____ 14. Recovery data not available for the following parameters _____ due to high concentration of these analytes in the sample.

Comments _____

_____

V. Samples

__X__ 15. High detection limits due to dilution for sample(s) 8.
_____ 16. High detection limit due to matrix interference for sample(s) _____.
_____ 17. High detection limits due to limited sample quantity for sample(s) _____.
_____ 18 Holding times not adhered to for samples _____.
__X__ 19. 1 out of 65 targetted compounds present in matrix blank.
__X__ 20. 2 nontargetted compounds present in matrix blank.
_____ 21. Sample(s) _____ not submitted in proper containers.

Comments _____

_____

AnalytiKEM

IV. Nonconformance Summary (CONT'D)

Semivolatile Organics

Samples # 14458-1,2,4-7

I. Initial Calibration Curve

_____ 1. Maximum %RSD not met for _____ out of _____ CCC's.
_____ 2. Minimum response factor not met for _____ out of _____ SPCC's.
_____ 3. %RSD >30 for _____ out of _____ non-CCC's.
_____ 4. Response factor <0.05 for _____ out of _____ non-SPCC's.

II. Calibration Curve Check Standard

_____ 5. Maximum %D not met for _____ out of _____ CCC's.
_____ 6. Minimum response factor not met for _____ out of _____ SPCC's.
X 7. %D >25 for 3 out of 58 non-CCC's.
_____ 8. Response factor <0.05 for _____ out of _____ non-SPCC's.

III. Surrogate Recoveries

X 9. Recovery limits not met for 1 of 6 surrogates for sample(s) 4.
_____ 10. Recovery limits not met for ____ of ____ surrogates for sample(s) _____.

Comments _____

_____

IV. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

X 11. Recovery limits not met for 1 out of 11 spiked compounds in MS.
X 12. Recovery limits not met for 1 out of 11 spiked compounds in MSD.
X 13. Maximum %RPD not met for 1 out of 11 compounds in MS/MSD.
_____ 14. Recovery data not available for the following parameters _____ due to high concentration of these analytes in the sample.

Comments _____

_____

V. Samples

X 15. High detection limits due to dilution for sample(s) 4 - 7.
_____ 16. High detection limit due to matrix interference for sample(s) _____.
_____ 17. High detection limits due to limited sample quantity for sample(s) _____.
_____ 18 Holding times not adhered to for samples _____.
X 19. 1 out of 65 targetted compounds present in matrix blank.
X 20. 2 nontargetted compounds present in matrix blank.
_____ 21. Sample(s) _____ not submitted in proper containers.

Comments _____

_____

Samples # A14558-10

IV. Nonconformance Summary (CONT'D)

Pesticides and Polychlorinated Biphenyls

I. Surrogate Recoveries

_____ 1. Maximum 2% dibutylchlorendate shift not met for sample(s) _____.
_____ 2. Surrogate not recoverable due to dilution for sample(s) _____.
__X__ 3. Surrogate not recoverable due to matrix interference for sample(s) -6-Blk,MS,TOX.

Comments _____

_____

II. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

_____ 4. Recovery limits not met for ____ out of ____ spiked compounds in MS.
_____ 5. Recovery limits not met for ____ out of ____ spiked compounds in MSD.
_____ 6. Maximum % RPD not met for ____ out of ____ compounds in MS/MSD.
_____ 7. Recovery data not available for the following parameters _____ due to high concentration of these analytes in the sample.

Comments Spiked compound not recoverable due to matrix interference in

sample: Endrin aldehyde (in both MS & MSD.)

III. Samples

__X__ 8. High detection limits due to dilution for sample(s) ____6____.
__X__ 9. High detection limits due to matrix interference for sample(s) ____8, 3____.
_____ 10. High detection limtis due to limited sample quantity for sample(s) _____.
_____ 11. Aroclor pattern identification obscured by non-Arolcor interferences for sample(s) _____.
_____ 12. Aroclor-like pattern was present but did not meet Aroclor identification criteria for sample(s) _____.
_____ 13. Sample(s) not submitted in proper container(s).

Comments _____

_____

_____

IV. Nonconformance Summary (CONT'D)

Metals

A Job # A14558

Samples # 1 - 10

I. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

X 1. Recovery limits not met for 1 out of 13 spiked compounds in MS.
X 2. Recovery limits not met for 1 out of 13 spiked compounds in MSD.
_____ 3. Maximum % RPD not met for _____ out of _____ compounds in MS/MSD.
_____ 4. Recovery data not available for the following parameters _____ due to high concentration of these analytes in the sample.

Comments _____

II. Samples

_____ 5. High detection limits due to dilution for sample(s) _____.
_____ 6. High detection limits due to matrix interference for sample(s) _____.
_____ 7. High detection limits due to limited sample volume for sample(s) _____.
_____ 8. Due to matrix interferences, sample results for _____ were determined by the method of standard addition for sample(s) _____.
_____ 9. One out of eight targetted compounds were present in the matrix blank.
_____ 10. Sample(s) _____ were submitted improperly preserved.

Comments _____

V. Analytical Results

Priority Pollutant Analyses

Volatile Organics

Constituent	Method Blank 1	Sample Designation A14558-1 BSA 0811745	A14558-2 BSA 0811746	A14558-3 BSA 0811747
Chloromethane	10U	12U	13U	14U
Bromomethane	10U	12U	13U	14U
Vinyl Chloride	10U	12U	13U	14U
Chloroethane	10U	12U	13U	14U
Methylene Chloride	10U	13	7.7J	9.9J
1,1-Dichloroethene	10U	12U	13U	14U
1,1-Dichloroethane	10U	12U	13U	14U
trans-1,2-Dichloroethene	10U	12U	13U	14U
Chloroform	10U	12U	13U	14U
1,2-Dichloroethane	10U	12U	13U	14U
1,1,1-Trichloroethane	10U	12U	13U	14U
Carbon Tetrachloride	10U	12U	13U	14U
Bromodichloromethane	10U	12U	13U	14U
1,2-Dichloropropane	10U	12U	13U	14U
trans-1,3-Dichloropropene	10U	12U	13U	14U
Trichloroethene	10U	12U	13U	14U
Dibromochloromethane	10U	12U	13U	14U
1,1,2-Trichloroethane	10U	12U	13U	14U
Benzene	10U	12U	13U	14U
cis-1,3-Dichloropropene	10U	10U	13U	14U
2-Chloroethyl Vinyl Ether	10U	12U	13U	14U
Bromoform	10U	12U	13U	14U
Tetrachloroethene	10U	12U	13U	14U
1,1,2,2-Tetrachloroethane	10U	12U	13U	14U
Toluene	10U	5.0J	13U	0.8J
Chlorobenzene	10U	12U	13U	14U
Ethyl Benzene	10U	12U	13U	14U
Xylenes, total	30U	36U	8.4J	42U
Units	(ug/l)	(ug/kg)	(ug/kg)	(ug/kg)

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

V. Analytical Results

Volatile Organics

Constituent	Method Blank 2	Sample Designation A14558-5 BSA 0811749	A14558-6 BSA 0811750	A14558-6 Reanalysis
Chloromethane	10U	20U	14U	14U
Bromomethane	10U	20U	14U	14U
Vinyl Chloride	10U	20U	14U	14U
Chloroethane	10U	20U	14U	14U
Methylene Chloride	10U	15	14	11
1,1-Dichloroethene	10U	20U	14U	14U
1,1-Dichloroethane	10U	20U	14U	14U
trans-1,2-Dichloroethene	10U	20U	14U	14U
Chloroform	10U	20U	14U	14U
1,2-Dichloroethane	10U	20U	14U	14U
1,1,1-Trichloroethane	10U	20U	14U	14U
Carbon Tetrachloride	10U	20U	14U	14U
Bromodichloromethane	10U	20U	14U	14U
1,2-Dichloropropane	10U	20U	14U	14U
trans-1,3-Dichloropropene	10U	20U	14U	14U
Trichloroethene	10U	20U	14U	14U
Dibromochloromethane	10U	20U	14U	14U
1,1,2-Trichloroethane	10U	20U	14U	14U
Benzene	10U	20U	10J	20
cis-1,3-Dichloropropene	10U	20U	14U	14U
2-Chloroethyl Vinyl Ether	10U	20U	14U	14U
Bromoform	10U	20U	14U	14U
Tetrachloroethene	10U	6.4J	14U	14U
1,1,2,2-Tetrachloroethane	10U	20U	14U	14U
Toluene	10U	20U	100	220
Chlorobenzene	10U	20U	14U	14U
Ethyl Benzene	10U	20U	27	63
Xylenes, total	30U	60U	230	510
Units	(ug/l)	(ug/kg)	(ug/kg)	(ug/kg)

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

V. Analytical Results (CONT'D)

Volatile Organics

	Sample Designation			
Constituent	Method Blank 2	A14558-7 BSA 0811751	A14558-7 Reanalysis	A14558-9 BSA 0811753
Chloromethane	10U	17U	17U	11U
Bromomethane	10U	17U	17U	11U
Vinyl Chloride	10U	17U	17U	11U
Chloroethane	10U	17U	17U	11U
Methylene Chloride	10U	13	8.9J	38
1,1-Dichloroethene	10U	17U	17U	11U
1,1-Dichloroethane	10U	17U	17U	11U
trans-1,2-Dichloroethene	10U	17U	17U	11U
Chloroform	10U	17U	17U	11U
1,2-Dichloroethane	10U	17U	17U	11U
1,1,1-Trichloroethane	10U	17U	17U	11U
Carbon Tetrachloride	10U	17U	17U	11U
Bromodichloromethane	10U	17U	17U	11U
1,2-Dichloropropane	10U	17U	17U	11U
trans-1,3-Dichloropropene	10U	17U	17U	11U
Trichloroethene	10U	17U	17U	3.1J
Dibromochloromethane	10U	17U	17U	11U
1,1,2-Trichloroethane	10U	17U	17U	11U
Benzene	10U	17U	17U	11U
cis-1,3-Dichloropropene	10U	17U	17U	11U
2-Chloroethyl Vinyl Ether	10U	17U	17U	11U
Bromoform	10U	17U	17U	11U
Tetrachloroethene	10U	17U	17U	11U
1,1,2,2-Tetrachloroethane	10U	17U	17U	11U
Toluene	10U	17U	3.8J	11U
Chlorobenzene	10U	17U	17U	11U
Ethyl Benzene	10U	17U	17U	11U
Xylenes, total	30U	2.7J	51U	0.8J
Units	(ug/l)	(ug/kg)	(ug/kg)	(ug/kg)

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

V. Analytical Results (CONT'D)

Volatile Organics

Constituent	Sample Designation: Method Blank 3	A14558-8 BSA 0811752	Method Blank 4	A14558-10 BSA 0811754 Field Blank	A14558-11 BSA 0811755 Trip Blank
Chloromethane	330U	450U	10U	10U	10U
Bromomethane	330U	450U	10U	10U	10U
Vinyl Chloride	330U	450U	10U	10U	10U
Chloroethane	330U	450U	10U	10U	10U
Methylene Chloride	330U	290J	10U	67	83
1,1-Dichloroethene	330U	450U	10U	10U	10U
1,1-Dichloroethane	330U	450U	10U	10U	10U
trans-1,2-Dichloroethene	330U	450U	10U	10U	10U
Chloroform	330U	450U	10U	10U	10U
1,2-Dichloroethane	330U	450U	10U	10U	10U
1,1,1-Trichloroethane	330U	450U	10U	10U	10U
Carbon Tetrachloride	330U	450U	10U	10U	10U
Bromodichloromethane	330U	450U	10U	10U	10U
1,2-Dichloropropane	330U	450U	10U	10U	10U
trans-1,3-Dichloropropene	330U	450U	10U	10U	10U
Trichloroethene	330U	450U	10U	10U	10U
Dibromochloromethane	330U	450U	10U	10U	10U
1,1,2-Trichloroethane	330U	450U	10U	10U	10U
Benzene	330U	450U	10U	10U	10U
cis-1,3-Dichloropropene	330U	450U	10U	10U	10U
2-Chloroethyl Vinyl Ether	330U	450U	10U	10U	10U
Bromoform	330U	450U	10U	10U	10U
Tetrachloroethene	330U	450U	10U	10U	10U
1,1,2,2-Tetrachloroethane	330U	450U	10U	10U	10U
Toluene	330U	450U	10U	10U	10U
Chlorobenzene	330U	450U	10U	10U	10U
Ethyl Benzene	330U	450U	10U	10U	10U
Xylenes, total	990U	1,400U	30U	30U	30U
Units	(ug/kg)	(ug/kg)	(ug/l)	(ug/l)	(ug/l)

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

V. Analytical Results (CONT'D)

Volatile Organics

	Sample Designation	
Constituent	Method Blank 5	A14558-4 BSA 0811748
Chloromethane	330U	430U
Bromomethane	330U	430U
Vinyl Chloride	330U	430U
Chloroethane	330U	430U
Methylene Chloride	330U	430U
1,1-Dichloroethene	330U	430U
1,1-Dichloroethane	330U	430U
trans-1,2-Dichloroethene	330U	430U
Chloroform	330U	430U
1,2-Dichloroethane	330U	430U
1,1,1-Trichloroethane	330U	430U
Carbon Tetrachloride	330U	430U
Bromodichloromethane	330U	430U
1,2-Dichloropropane	330U	430U
trans-1,3-Dichloropropene	330U	430U
Trichloroethene	330U	430U
Dibromochloromethane	330U	430U
1,1,2-Trichloroethane	330U	430U
Benzene	330U	430U
cis-1,3-Dichloropropene	330U	430U
2-Chloroethyl Vinyl Ether	330U	430U
Bromoform	330U	430U
Tetrachloroethene	330U	430U
1,1,2,2-Tetrachloroethane	330U	430U
Toluene	330U	430U
Chlorobenzene	330U	430U
Ethyl Benzene	330U	430U
Xylenes, total	990U	43J
Units	(ug/kg)	(ug/kg)

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

AnalytiKEM

V. Analytical Results (CONT'D)

Semivolatile Organics by GC/MS (Page 1 of 2)

Constituent	Method Blank	Sample Designation A14558-3 BSA 0811747	A14558-10 BSA 0811754 Field Blank	A14558-8 BSA 0811752	A14558-9 BSA 0811753
Phenol	330U	460U	10U	1,300U	360U
bis(2-Chloroethyl) Ether	330U	460U	10U	1,300U	360U
2-Chlorophenol	330U	460U	10U	1,300U	360U
1,3-Dichlorobenzene	330U	460U	10U	1,300U	360U
1,4-Dichlorobenzene	330U	460U	10U	1,300U	360U
Benzyl Alcohol	330U	460U	10U	1,300U	360U
1,2-Dichlorobenzene	330U	460U	10U	1,300U	360U
2-Methylphenol	330U	460U	10U	1,300U	360U
bis(2-Chloroisopropyl) Ether	330U	460U	10U	1,300U	360U
4-Methylphenol	330U	460U	10U	1,300U	360U
N-Nitroso-dipropylamine	330U	460U	10U	1,300U	360U
Hexachloroethane	330U	460U	10U	1,300U	360U
Nitrobenzene	330U	460U	10U	1,300U	360U
Isophorone	330U	460U	10U	1,300U	360U
2-Nitrophenol	330U	460U	10U	1,300U	360U
2,4-Dimethylphenol	330U	460U	10U	1,300U	360U
Benzoic Acid	1,600U	2,200U	50U	6,200U	1,700U
bis(2-Chloroethoxy)methane	330U	460U	10U	1,300U	360U
2,4-Dichlorophenol	330U	460U	10U	1,300U	360U
1,2,4-Trichlorobenzene	330U	460U	10U	1,300U	360U
Naphthalene	330U	210J	10U	1,300U	360U
4-Chloroaniline	330U	460U	10U	1,300U	360U
Hexachlorobutadiene	330U	460U	10U	1,300U	360U
4-Chloro-3-methylphenol	330U	460U	10U	1,300U	360U
2-Methylnaphthalene	330U	190J	10U	1,300U	360U
Hexachlorocyclopentadiene	330U	460U	10U	1,300U	360U
2,4,6-Trichlorophenol	330U	460U	10U	1,300U	360U
2,4,5-Trichlorophenol	1,600U	2,200U	50U	6,200U	1,700U
2-Chloronaphthalene	330U	460U	10U	1,300U	360U
2-Nitroaniline	1,600U	2,200U	50U	6,200U	1,700U
Dimethyl Phthalate	330U	460U	10U	1,300U	360U
Acenaphthylene	330U	140J	10U	1,300U	360U
3-Nitroaniline	1,600U	2,200U	50U	6,200U	1,700U
Acenaphthene	330U	380J	10U	1,300U	360U
2,4-Dinitrophenol	1,600U	2,200U	50U	6,200U	1,700U
Units	(ug/kg)	(ug/kg)	(ug/l)	(ug/kg)	(ug/kg)

Note: Identification of phthalates at low levels is sometimes attributed to laboratory contamination.

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

V. Analytical Results (CONT'D)

Semivolatile Organics by GC/MS (Page 2 of 2)

		Sample Designation			
Constituent	Method Blank	A14558-3 BSA 0811747	A14558-10 BSA 0811754 Field Blank	A14558-8 BSA 0811752	A14558-9 BSA 0811753
4-Nitrophenol	1,600U	2,200U	50U	6,200U	1,700U
Dibenzofuran	330U	590	10U	1,300U	360U
2,4-Dinitrotoluene	330U	460U	10U	1,300U	360U
2,6-Dinitrotoluene	330U	460U	10U	1,300U	360U
Diethyl Phthalate	330U	460U	10U	1,300U	360U
4-Chlorophenyl Phenyl Ether	330U	460U	10U	1,300U	360U
Fluorene	330U	550	10U	1,300U	360U
4-Nitroaniline	1,600U	460U	50U	6,200U	1,700U
4,6-Dinitro-2-methylphenol	1,600U	460U	50U	6,200U	1,700U
N-nitrosodiphenylamine	330U	460U	10U	980J	360U
4-Bromophenyl Phenyl Ether	330U	460U	10U	1,300U	360U
Hexachlorobenzene	330U	460U	10U	1,300U	360U
Pentachlorophenol	1,600U	1,000J	50U	6,200U	1,700U
Phenanthrene	330U	1,800	10U	1,300U	190J
Anthracene	330U	440J	10U	1,300U	360U
Di-n-butyl Phthalate	330U	460U	6.9J	1,300U	360U
Fluoranthene	330U	3,000	10U	1,300U	390
Pyrene	330U	1,100	10U	820J	490
Butyl Benzyl Phthalate	330U	460U	10U	1,300U	360U
3,3'-Dichlorobenzidine	660U	920U	20U	2,500U	720U
Benzo(a)anthracene	330U	950	10U	1,300U	300J
bis(2-Ethylhexyl) Phthalate	26J	230J	10U	1,300U	150J
Chrysene	330U	1,000	10U	1,300U	360
Di-n-octyl Phthalate	330U	460U	10U	1,300U	360U
Benzo(b)fluoranthene	330U	750	10U	1,300U	280J
Benzo(k)fluoranthene	330U	600	10U	1,300U	360U
Benzo(a)pyrene	330U	760	10U	1,300U	160J
Indeno(1,2,3-cd)pyrene	330U	890	10U	1,300U	160J
Dibenzo(a,h)anthracene	330U	460U	10U	1,300U	360U
Benzo(g,h,i)perylene	330U	890	10U	1,300U	360U
Units	(ug/kg)	(ug/kg)	(ug/l)	(ug/kg)	(ug/kg)

Note: Identification of phthalates at low levels is sometimes attributed to laboratory contamination.

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

AnalytiKEM

V. Analytical Results (CONT'D)

Semivolatile Organics by GC/MS (Page 1 of 2)

Constituent	Method Blank	Sample Designation A14558-1 BSA 0811745	A14558-2 BSA 0811746	A14558-6 BSA 0811750	A14558-5 BSA 0811749
Phenol	330U	400U	420U	1,400U	2,500
bis(2-Chloroethyl) Ether	330U	400U	420U	1,400U	2,000U
2-Chlorophenol	330U	400U	420U	1,400U	2,000U
1,3-Dichlorobenzene	330U	400U	420U	1,400U	2,000U
1,4-Dichlorobenzene	330U	400U	420U	1,400U	2,000U
Benzyl Alcohol	330U	400U	420U	1,400U	2,000U
1,2-Dichlorobenzene	330U	400U	420U	1,400U	2,700
2-Methylphenol	330U	400U	420U	1,400U	2,000U
bis(2-Chloroisopropyl) Ether	330U	400U	420U	1,400U	2,000U
4-Methylphenol	330U	400U	420U	1,400U	2,000U
N-Nitroso-dipropylamine	330U	400U	420U	1,400U	2,000U
Hexachloroethane	330U	400U	420U	1,400U	2,000U
Nitrobenzene	330U	400U	420U	1,400U	2,000U
Isophorone	330U	400U	420U	1,400U	2,000U
2-Nitrophenol	330U	400U	420U	1,400U	2,000U
2,4-Dimethylphenol	330U	400U	420U	1,400U	2,000U
Benzoic Acid	1,600U	2,200U	2,100U	6,900	9,600U
bis(2-Chloroethoxy)methane	330U	400U	420U	1,400U	2,060U
2,4-Dichlorophenol	330U	400U	420U	1,400U	2,000U
1,2,4-Trichlorobenzene	330U	400U	420U	1,400U	2,000U
Naphthalene	330U	250J	420U	11,000	4,300
4-Chloroaniline	330U	400U	420U	1,400U	2,000U
Hexachlorobutadiene	330U	400U	410U	1,400U	2,000U
4-Chloro-3-methylphenol	330U	400U	420U	1,400U	2,000U
2-Methylnaphthalene	330U	380J	68J	1,400U	2,000U
Hexachlorocyclopentadiene	330U	400U	420U	1,400U	2,000U
2,4,6-Trichlorophenol	330U	400U	420U	1,400U	2,000U
2,4,5-Trichlorophenol	1,600U	2,200U	2,100U	6,900U	9,600U
2-Chloronaphthalene	330U	400U	420U	1,400U	2,000U
2-Nitroaniline	1,600U	2,200U	2,100U	6,900U	9,600U
Dimethyl Phthalate	330U	400U	420U	1,300U	2,000U
Acenaphthylene	330U	400U	420U	1,300U	2,000U
3-Nitroaniline	1,600U	2,200U	2,100U	6,900U	9,600U
Acenaphthene	330U	400U	420U	1,300U	8,600
2,4-Dinitrophenol	1,600U	2,200U	2,100U	6,900U	9,600U
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)

Note: Identification of phthalates at low levels is sometimes attributed to laboratory contamination.

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

V. Analytical Results (CONT'D)

Semivolatile Organics by GC/MS (Page 2 of 2)

		Sample Designation			
Constituent	Method Blank	A14558-1 BSA 0811745	A14558-2 BSA 0811746	A14558-6 BSA 0811750	A14558-5 BSA 0811749
4-Nitrophenol	1,600U	2,200U	2,100U	6,900U	9,600U
Dibenzofuran	330U	110J	420U	10,000	4,300
2,4-Dinitrotoluene	330U	400U	420U	1,400U	2,000U
2,6-Dinitrotoluene	330U	400U	420U	1,400U	2,000U
Diethyl Phthalate	330U	400U	420U	1,400U	2,000U
4-Chlorophenyl Phenyl Ether	330U	400U	420U	1,400U	2,000U
Fluorene	330U	400U	420U	1,400U	7,000
4-Nitroaniline	1,600U	2,200U	2,100U	6,900U	9,600U
4,6-Dinitro-2-methylphenol	1,600U	2,200U	2,100U	6,900U	9,600U
N-nitrosodiphenylamine	330U	400U	74J	1,400U	2,000U
4-Bromophenyl Phenyl Ether	330U	400U	420U	1,400U	2,000U
Hexachlorobenzene	330U	400U	420U	1,400U	2,000U
Pentachlorophenol	1,600U	2,200U	2,100U	6,900U	9,600U
Phenanthrene	330U	380J	330J	32,000	66,000
Anthracene	330U	76J	420U	1,400U	20,000
Di-n-butyl Phthalate	330U	93J	180J	17,000	2,000U
Fluoranthene	330U	380J	420U	1,400U	130,000
Pyrene	330U	410	180J	5,100	87,000
Butyl Benzyl Phthalate	330U	400U	420U	1,400U	2,000U
3,3'-Dichlorobenzidine	660U	800U	840U	2,800U	4,000U
Benzo(a)anthracene	330U	260J	420U	1,400U	61,000
bis(2-Ethylhexyl) Phthalate	26J	400U	250J	1,400U	4,400
Chrysene	330U	480	420U	12,000	61,000
Di-n-octyl Phthalate	330U	400U	420U	1,400U	2,000U
Benzo(b)fluoranthene	330U	400U	420U	4,800	78,000
Benzo(k)fluoranthene	330U	400U	420U	1,400U	2,000U
Benzo(a)pyrene	330U	400U	420U	3,100	46,000
Indeno(1,2,3-cd)pyrene	330U	400U	420U	1,400U	35,000
Dibenzo(a,h)anthracene	330U	400U	420U	1,400U	2,000U
Benzo(g,h,i)perylene	330U	400U	420U	1,400U	30,000
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)

Note: Identification of phthalates at low levels is sometimes attributed to laboratory contamination.

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

AnalytiKEM

V. Analytical Results (CONT'D)

Semivolatile Organics by GC/MS (Page 1 of 2)

	Sample Designation		
Constituent	Method Blank	A14558-7 BSA 0811751	A14558-4 BSA 0811748
Phenol	330U	1,900U	1,300U
bis(2-Chloroethyl) Ether	330U	1,900U	1,300U
2-Chlorophenol	330U	1,900U	1,300U
1,3-Dichlorobenzene	330U	1,900U	1,300U
1,4-Dichlorobenzene	330U	1,900U	1,300U
Benzyl Alcohol	330U	1,900U	1,300U
1,2-Dichlorobenzene	330U	1,900U	1,300U
2-Methylphenol	330U	1,900U	1,300U
bis(2-Chloroisopropyl) Ether	330U	1,900U	1,300U
4-Methylphenol	330U	1,900U	1,300U
N-Nitroso-dipropylamine	330U	1,900U	1,300U
Hexachloroethane	330U	1,900U	1,300U
Nitrobenzene	330U	1,900U	1,300U
Isophorone	330U	1,900U	1,300U
2-Nitrophenol	330U	1,900U	1,300U
2,4-Dimethylphenol	330U	1,900U	1,300U
Benzoic Acid	1,600U	9,100U	6,200U
bis(2-Chloroethoxy)methane	330U	1,900U	1,300U
2,4-Dichlorophenol	330U	1,900U	1,300U
1,2,4-Trichlorobenzene	330U	1,900U	1,300U
Naphthalene	330U	1,900U	1,300U
4-Chloroaniline	330U	1,900U	1,300U
Hexachlorobutadiene	330U	1,900U	1,300U
4-Chloro-3-methylphenol	330U	1,900U	1,300U
2-Methylnaphthalene	330U	1,900U	34,000
Hexachlorocyclopentadiene	330U	1,900U	1,300U
2,4,6-Trichlorophenol	330U	1,900U	1,300U
2,4,5-Trichlorophenol	1,600U	9,100U	6,200U
2-Chloronaphthalene	330U	1,900U	1,320U
2-Nitroaniline	1,600U	9,100U	6,200U
Dimethyl Phthalate	330U	1,900U	1,300U
Acenaphthylene	330U	1,900U	1,300U
3-Nitroaniline	1,600U	9,100U	6,200U
Acenaphthene	330U	1,900U	1,300U
2,4-Dinitrophenol	1,600U	9,100U	6,200U
Units	(ug/kg)	(ug/kg)	(ug/kg)

Note: Identification of phthalates at low levels is sometimes attributed to laboratory contamination.

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

V. Analytical Results (CONT'D)

Semivolatile Organics by GC/MS (Page 2 of 2)

		Sample Designation	
Constituent	Method Blank	A14558-7 BSA 0811751	A14558-4R BSA 0811748
4-Nitrophenol	1,600U	9,100U	6,200U
Dibenzofuran	330U	1,900U	1,300U
2,4-Dinitrotoluene	330U	1,900U	1,300U
2,6-Dinitrotoluene	330U	1,900U	1,300U
Diethyl Phthalate	330U	1,900U	1,300U
4-Chlorophenyl Phenyl Ether	330U	1,900U	1,300U
Fluorene	330U	1,900U	1,300U
4-Nitroaniline	1,600U	9,100U	6,200U
4,6-Dinitro-2-methylphenol	1,600U	9,100U	6,200U
N-nitrosodiphenylamine	330U	1,900U	1,200U
4-Bromophenyl Phenyl Ether	330U	1,900U	1,200U
Hexachlorobenzene	330U	1,900U	1,200U
Pentachlorophenol	1,600U	9,100U	6,200U
Phenanthrene	330U	1,200J	10,000
Anthracene	330U	1,900U	1,200U
Di-n-butyl Phthalate	330U	990J	1,200U
Fluoranthene	330U	1,900U	1,200U
Pyrene	330U	1,200J	3,400
Butyl Benzyl Phthalate	330U	1,900U	1,200U
3,3'-Dichlorobenzidine	660U	3,700U	2,600U
Benzo(a)anthracene	330U	1,900U	1,200U
bis(2-Ethylhexyl) Phthalate	26J	1,900U	1,200U
Chrysene	330U	1,900U	980J
Di-n-octyl Phthalate	330U	1,900U	1,200U
Benzo(b)fluoranthene	330U	1,900U	960J
Benzo(k)fluoranthene	330U	1,900U	1,200U
Benzo(a)pyrene	330U	1,900U	1,200U
Indeno(1,2,3-cd)pyrene	330U	1,900U	1,200U
Dibenzo(a,h)anthracene	330U	1,900U	1,200U
Benzo(g,h,i)perylene	330U	1,900U	1,200U
Units	(ug/kg)	(ug/kg)	(ug/kg)

Note: Identification of phthalates at low levels is sometimes attributed to laboratory contamination.

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

AnalytiKEM

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

No nontargetted compounds were detected in the following samples:

Volatile Method Blanks 1-5

Sample Designation: Semivolatile Method Blank

Client Designation: --

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Compound	BNA	1,911	170
	Unknown Compound	BNA	2,231	290

Sample Designation: A14558-1

Client Designation: BSA 0811745

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown (Column Bleed)	VOA	868	14
	Unknown Compound	BNA	522	1,900
	Unknown Compound	BNA	620	1,100
	Unknown Alkane	BNA	626	1,400
	Unknown Compound	BNA	678	540
	Unknown Compound	BNA	795	800
	Unknown Alkane	BNA	1,362	500
1610-18-0	Prometon	BNA	1,405	1,000
	Unknown Alkane	BNA	1,766	640
	Unknown Alkane	BNA	1,839	770
	Unknown Compound	BNA	2,045	610
	Unknown Compound	BNA	2,111	2,000

Note: Estimated concentration is calculated against the nearest eluting internal standard.

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-1

Client Designation BSA 0811745

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Alkane	BNA	2,199	2,000
	Unknown Compound	BNA	2,223	2,100
	Unknown Compound	BNA	2,233	1,900
	Unknown Compound	BNA	2,242	2,400
	Unknown Compound	BNA	2,256	3,400
	Unknown Compound	BNA	2,272	2,400
	Unknown Compound	BNA	2,283	2,800
	Unknown Compound	BNA	2,293	1,700
	Unknown Compound	BNA	2,386	1,100
	Unknown Compound	BNA	2,454	1,300
	Unknown Compound	BNA	2,458	1,200
	Unknown Compound	BNA	2,483	2,100
	Unknown Compound	BNA	2,553	2,100
	Unknown Compound	BNA	2,716	1,100

Note: Estimated concentration is calculated against the nearest eluting internal standard.

AnalytiKEM

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-2

Client Designation BSA 0811746

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Hydrocarbon	VOA	767	4.9
	Unknown Compound	BNA	1,910	980
	Unknown Compound	BNA	2,230	1,100
	Unknown Compound	BNA	2,426	580
	Unknown Compound	BNA	2,537	520
	Unknown Compound	BNA	2,867	560
	Unknown Compound	BNA	2,956	540

Sample Designation A14558-3

Client Designation BSA 0811747

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Alkane	VOA	932	7.8
	Unknown Compound	BNA	521	5,300
	Unknown Alkane	BNA	915	1,400
	Unknown Alkane	BNA	946	1,300
	Unknown Alkane	BNA	1,057	1,400
	Unknown Compound	BNA	1,105	1,000
	Unknown Alkane	BNA	1,124	3,300

Note: Estimated concentration is calculated against the nearest eluting internal standard.

AnalytiKEM

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-3 (CONT'D)

Client Designation BSA 0811747

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Compound	BNA	1,144	1,000
	Unknown Compound	BNA	1,197	2,600
	Unknown Alkane	BNA	1,262	2,600
	Unknown Alkane	BNA	1,309	3,200
	Unknown Alkane	BNA	1,356	1,900
	Unknown Alkane	BNA	1,362	4,200
	Unknown Alkane	BNA	1,398	800
	Unknown Alkane	BNA	1,446	1,400
	Unknown Compound	VOA	1,478	350
	Unknown Compound	BNA	1,487	400
	Unknown Compound	VOA	1,496	450
	Unknown Compound	BNA	1,505	490
	Unknown Compound	BNA	1,512	500
	Unknown Alkane	BNA	1,526	820
	Unknown Alkane	BNA	1,532	1,200
	Unknown Alkane	BNA	1,614	1,100
	Unknown Compound	BNA	1,675	400
	Unknown Compound	BNA	1,686	230
10544-50-0	Sulfur, Molecular	BNA	1,699	1,600

Note: Estimated concentration is calculated against the nearest eluting internal standard.

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-4

Client Designation BSA 0811748

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
7094-26-0	Cyclohexane,1,1,2-Trimethyl-	VOA	752	1,600
	Unknown Compound	VOA	760	780
	Unknown Hydrocarbon MW=126	VOA	856	1,300
	Unknown Compound MW=140	VOA	902	4,700
	Unknown Compound	VOA	918	2,000
	Unknown Compound	VOA	944	1,500
	Unknown Compound	VOA	992	6,900
	Unknown Alkane	BNA	703	120,000
	Unknown Compound	BNA	829	110,000
	Unknown Alkane	BNA	846	98,000
	Unknown Alkane	BNA	916	120,000
	Unknown Compound	BNA	948	110,000
	Unknown Alkane	BNA	1,019	24,000
	Unknown Compound	BNA	1,027	25,000
	Unknown Alkane	BNA	1,034	53,000
	Unknown Compound	BNA	1,059	52,000
	Unknown Dimethylnaphthalene	BNA	1,082	26,000
	Unknown Dimethylnaphthalene	BNA	1,099	27,000

Note: Estimated concentration is calculated against the nearest eluting internal standard.

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-4 (CONT'D)

Client Designation BSA 0811748

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Compound	BNA	1,107	25,000
	Unknown Compound	BNA	1,125	56,000
	Unknown Compound	BNA	1,145	32,000
	Unknown Trimethylnaphthalene	BNA	1,216	16,000
	Unknown Trimethylnaphthalene	BNA	1,235	19,000
	Unknown Compound	BNA	1,263	44,000
	Unknown Alkane	BNA	1,310	48,000
	Unknown Alkane	BNA	1,358	45,000
	Unknown Compound	BNA	1,364	42,000
	Unknown Alkane	BNA	1,448	38,000
	Unknown Alkane	BNA	1,533	33,000
	Unknown Alkane	BNA	1,614	42,000
	Unknown Alkane	BNA	1,692	27,000
	Unknown Alkane	BNA	1,767	58,000

Note: Estimated concentration is calculated against the nearest eluting internal standard.

AnalytiKEM

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-5

Client Designation BSA 0811749

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
67-64-1	2-Propanone (Acetone)	VOA	165	38
76-13-1	Ethane,1,1,2-Trichloro-1,2,2-trifluoro-	VOA	320	12
	Unknown Compound	VOA	918	14
	Dichlorobenzene Isomer	VOA	979	11
	Unknown Compound	BNA	508	11,000
	Unknown Compound	BNA	518	12,000
	Unknown Organic Acid	BNA	785	11,000
	Unknown Compound	BNA	1,290	10,000
	Unknown Polynuclear Aromatic	BNA	1,564	7,800
	Unknown Polynuclear Aromatic	BNA	1,581	12,000
	Unknown Polynuclear Aromatic	BNA	1,815	23,000
	Unknown Polynuclear Aromatic	BNA	1,828	15,000
	Unknown Methylpyrene	BNA	1,835	6,200
	Unknown Compound	BNA	1,841	6,700
	Unknown Polynuclear Aromatic	BNA	1,940	9,400
	Unknown Polynuclear Aromatic	BNA	1,947	7,800
	Unknown Compound	BNA	1,959	27,000
	Unknown Polynuclear Aromatic	BNA	2,012	17,000
	Unknown Methyltriphenylene	BNA	2,073	21,000
	Unknown Polynuclear Aromatic	BNA	2,081	15,000

Note: Estimated concentration is calculated against the nearest eluting internal standard.

AnalytiKEM

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-5 (CONT'D)

Client Designation BSA 0811749

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Compound	BNA	2,093	17,000
	Unknown Compound	BNA	2,106	17,000
	Unknown Compound	BNA	2,147	9,200
	Unknown Polynuclear Aromatic	BNA	2,262	23,000
	Unknown Compound	BNA	2,292	9,100
	Unknown Polynuclear Aromatic	BNA	2,313	45,000
	Unknown Polynuclear Aromatic	BNA	2,354	22,000

Sample Designation A14558-6

Client Designation BSA 0811750

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
67-64-1	2-Propanone (Acetone)	VOA	161	8.7
76-13-1	Ethane, 1,1,2-Trichloro-1,2,2-Trifluoro-	VOA	318	7.2
	C_6 Hydrocarbon MW=84	VOA	380	14
	Unknown Compound MW=86	VOA	405	10
	Unknown Compound	VOA	634	14
	C_8 Hydrocarbon MW=112	VOA	701	20
	Unknown Compound	VOA	791	28
108-87-2	Cyclohexane, Methyl-	VOA	554	47
	Unknown Compound	VOA	750	20

AnalytiKEM

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-6 (CONT'D)

Client Designation BSA 0811750

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Alkane	BNA	947	43,000
	Unknown Polynuclear Aromatic	BNA	958	40,000
	Unknown Compound	BNA	979	100,000
	Unknown Alkane	BNA	1,058	46,000
	Unknown Dimethylnaphthalene	BNA	1,082	31,000
	Unknown Dimethylnaphthalene	BNA	1,099	47,000
	Unknown Dimethylnaphthalene	BNA	1,103	39,000
	Unknown Compound	BNA	1,125	42,000
	Unknown Compound	BNA	1,164	160,000
	Unknown Trimethylnaphthalene	BNA	1,215	24,000
	Unknown Trimethylnaphthalene	BNA	1,235	28,000
	Unknown Alkane	BNA	1,256	43,000
	Unknown Alkane	BNA	1,263	89,000
	Unknown Compound	BNA	1,271	100,000
	Unknown Compound	BNA	1,358	160,000
	Unknown Alkane	BNA	1,363	80,000
	Unknown Alkane	BNA	1,441	89,000
	Unknown Alkane	BNA	1,447	89,000
	Unknown Alkane	BNA	1,532	60,000
	Unknown Alkane	BNA	1,533	50,000
	Unknown Alkane	BNA	1,614	40,000

Note: Estimated concentration is calculated against the nearest eluting internal standard.

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-6 (CONT'D)

Client Designation BSA 0811750

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Compound	BNA	1,686	26,000
	Unknown Alkane	BNA	1,692	38,000
	Unknown Compound	BNA	1,698	45,000
	Unknown Compound	BNA	1,767	38,000

Sample Designation A14558-6R

Client Designation BSA 0811750

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	C6 Hydrocarbon MW=84	VOA	381	20
	Unknown Compound MW=86	VOA	407	16
108-87-2	Cyclohexane, Methyl-	VOA	556	100
	Unknown Compound	VOA	636	13
	C-8 Hydrocarbon MW=12	VOA	702	18
	Unknown Compound	VOA	753	380

Note: Estimated concentration is calculated against the nearest eluting internal standard.

AnalytiKEM

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-7

Client Designation BSA 0811751

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Compound	VOA	903	33
	Unknown Compound	VOA	949	13
	Unknown Alkane	BNA	828	11,000
	Unknown Alkane	BNA	845	13,000
	Unknown Alkane	BNA	915	29,000
	Unknown Alkane	BNA	946	23,000
	Unknown Alkane	BNA	1,033	28,000
	Unknown Alkane	BNA	1,057	20,000
	Unknown Alkane	BNA	1,124	27,000
	Unknown Alkane	BNA	1,262	9,000
	Unknown Alkane	BNA	1,361	10,000
	Unknown Compound	BNA	2,229	14,000
	Unknown Compound	BNA	2,485	7,600
	Unknown Compound	BNA	2,489	7,600
	Unknown Compound	BNA	2,500	8,000
	Unknown Compound	BNA	2,513	9,600

Sample Designation A14558-7R

Client Designation BSA 0811751

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Compound	VOA	903	14

Note: Estimated concentration is calculated against the nearest eluting internal standard.

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-8

Client Designation BSA 0811752

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
7094-26-0	Cyclohexane, 1,1,2-Trimethyl-	VOA	749	1,100
	Unknown Compound	VOA	757	790
	Unknown Compound	VOA	788	1,100
	Unknown Compound	VOA	801	1,500
	Unknown Compound	VOA	853	2,800
	Unknown Compound	VOA	871	1,100
	Unknown Compound	VOA	898	15,000
	Unknown Hydrocarbon	VOA	915	3,000
	Unknown Hydrocarbon	VOA	940	4,700
	Unknown Compound	BNA	474	5,600
	Unknown Compound	BNA	486	7,100
	Unknown Compound	BNA	514	6,400
	Unknown Compound	BNA	528	5,500
	Unknown Compound	BNA	548	6,100
	Unknown Aromatic	BNA	565	5,400
	Unknown Alkane	BNA	600	24,000
	Unknown Compound	BNA	606	8,200
	Unknown Compound	BNA	616	11,000

Note: Estimated concentration is calculated against the nearest eluting internal standard.

AnalytiKEM

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-8 (CONT'D)

Client Designation BSA 0811752

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Alkane	BNA	622	6,800
	Unknown Alkane	BNA	636	8,700
	Unknown Alkane	BNA	646	5,600
	Unknown Compound	BNA	653	8,700
	Unknown Compound	BNA	664	11,000

Sample Designation A14558-9

Client Designation BSA 0811753

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
	Unknown Hydrocarbon	VOA	782	23
	Unknown Compound	VOA	889	21
	Unknown Compound	VOA	903	37
	Unknown Compound	VOA	977	89
	Unknown Compound	BNA	519	4,900
	Unknown Compound	BNA	1,911	1,400
	Unknown Alkane	BNA	2,110	590
	Unknown Alkane	BNA	2,294	590

Note: Estimated concentration is calculated against the nearest eluting internal standard.

V. Analytical Results (CONT'D)

EPA/NIH/NBS Nontargetted Library Search

Sample Designation A14558-10
BSA 0811754
Client Designation Field Blank

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/kg)
67-64-1	2-Propanone (Acetone)	VOA	166	16
	Unknown Compound	BNA	1,911	50

Sample Designation A14558-11
BSA 0811755
Client Designation Trip Blank

CAS Number	Compound Name	Fraction	Scan Number	Estimated Concentration (ug/l)
67-64-1	2-Propanone (Acetone)	VOA	164	18

Note: Estimated concentration is calculated against the nearest eluting internal standard.

V. Analytical Results (CONT'D)

Pesticidal Compounds and Polychlorinated Biphenyls

Constituent	Method Blank	Sample Designation A14558-1 BSA 0811745	A14558-2 BSA 0811746	A14558-3 BSA 0811747	A14558-4 BSA 0811748
Aldrin	330U	330U	330U	3,300U	330U
alpha BHC	330U	330U	330U	3,300U	330U
beta BHC	330U	330U	330U	3,300U	330U
gamma BHC	330U	330U	330U	3,300U	330U
delta BHC	330U	330U	330U	3,300U	330U
Chlordane	330U	330U	330U	3,300U	330U
Dieldrin	330U	330U	330U	3,300U	330U
4,4'-DDD	330U	330U	330U	3,300U	330U
4,4'-DDE	330U	330U	330U	3,300U	330U
4,4'-DDT	330U	330U	330U	3,300U	330U
Endosulfan I	330U	330U	330U	3,300U	330U
Endosulfan II	330U	330U	330U	3,300U	330U
Endosulfan Sulfate	330U	330U	330U	3,300U	330U
Endrin	330U	330U	330U	3,300U	330U
Endrin Aldehyde	330U	330U	330U	3,300U	330U
Heptachlor	330U	330U	330U	3,300U	330U
Heptachlor Epoxide	330U	330U	330U	3,300U	330U
Toxaphene	330U	330U	330U	3,300U	330U
Aroclor 1016	330U	330U	330U	3,300U	330U
Aroclor 1221	330U	330U	330U	3,300U	330U
Aroclor 1232	330U	330U	330U	3,300U	330U
Aroclor 1242	330U	330U	330U	3,300U	330U
Aroclor 1248	330U	330U	330U	3,300U	330U
Aroclor 1254	330U	330U	330U	3 300U	330U
Aroclor 1260	330U	330U	330U	3,300U	330U
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Prep Factor		15.18 g / 10 ml	15.53 g / 10 ml	15.31 g / 10 ml	15.52 g / 10 ml

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

V. Analytical Results (CONT'D)

Pesticidal Compounds and Polychlorinated Biphenyls

Constituent	Method Blank	Sample Designation A14558-5 BSA 0811749	A14558-6 BSA 0811750	A14558-7 BSA 0811751	A14558-8 BSA 0811752
Aldrin	330U	97J	3,300U	43J	3,300U
alpha BHC	330U	330U	3,300U	330U	3,300U
beta BHC	330U	330U	3,300U	330U	3,300U
gamma BHC	330U	330U	3,300U	330U	3,300U
delta BHC	330U	330U	3,300U	330U	3,300U
Chlordane	330U	330U	3,300U	330U	3,300U
Dieldrin	330U	210J	3,300U	330U	3,300U
4,4'-DDD	330U	330U	3,300U	330U	3,300U
4,4'-DDE	330U	330U	3,300U	330U	3,300U
4,4'-DDT	330U	330U	3,300U	330U	330U
Endosulfan I	330U	330U	3,300U	330U	3,300U
Endosulfan II	330U	330U	3,300U	330U	330U
Endosulfan Sulfate	330U	330U	3,300U	330U	330U
Endrin	330U	330U	3,300U	330U	3,300U
Endrin Aldehyde	330U	330U	3,300U	330U	330U
Heptachlor	330U	330U	3,300U	330U	330U
Heptachlor Epoxide	330U	120J	3,300U	330U	3,300U
Toxaphene	330U	330U	3,300U	330U	330U
Aroclor 1016	330U	330U	3,300U	330U	3,300U
Aroclor 1221	330U	330U	3,300U	330U	3,300U
Aroclor 1232	330U	330U	3,300U	330U	3,300U
Aroclor 1242	330U	330U	3,300U	330U	3,300U
Aroclor 1248	330U	330U	3,300U	330U	3,330U
Aroclor 1254	330U	330U	3,300U	330U	330U
Aroclor 1260	330U	1,800	3,300U	330U	330U
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)
Prep Factor		15.41 g / 10 ml	15.16 g / 10 ml	15.13 g / 10 ml	15.16 g / 10 ml

Note: All compounds reported at levels exceeding the detection limit have been confirmed by either alternate column GC or by GC/MS.

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

V. Analytical Results (CONT'D)

Pesticidal Compounds and Polychlorinated Biphenyls

	Sample Designation		
Constituent	Method Blank	A14558-9 BSA 0811753	A14558-10 BSA 0811750 Field Blank
Aldrin	330U	330U	10U
alpha BHC	330U	330U	10U
beta BHC	330U	330U	10U
gamma BHC	330U	330U	10U
delta BHC	330U	330U	10U
Chlordane	330U	330U	10U
Dieldrin	330U	330U	10U
4,4'-DDD	330U	330U	10U
4,4'-DDE	330U	330U	10U
4,4'-DDT	330U	330U	10U
Endosulfan I	330U	330U	10U
Endosulfan II	330U	330U	10U
Endosulfan Sulfate	330U	330U	10U
Endrin	330U	330U	10U
Endrin Aldehyde	330U	330U	10U
Heptachlor	330U	330U	10U
Heptachlor Epoxide	330U	330U	10U
Toxaphene	330U	330U	10U
Aroclor 1016	330U	330U	10U
Aroclor 1221	330U	330U	10U
Aroclor 1232	330U	330U	10U
Aroclor 1242	330U	330U	10U
Aroclor 1248	330U	330U	10U
Aroclor 1254	330U	330U	10U
Aroclor 1260	330U	330U	10U
Units	(ug/kg)	(ug/kg)	(ug/l)
Prep Factor		15.12 g / 10 ml	880 ml / 10 ml

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

AnalytiKEM

V. Analytical Results (CONT'D)

Metals, Cyanide and Phenolics

Parameter	Method Blank	A14558-1 BSA 0811745	A14558-2 BSA 0811746	A14558-3 BSA 0811747	A14558-4 BSA 0811748
		Sample Designation			
Antimony, total	2,000U	180,000	6,500	36,000	23,000
Arsenic, total	1,000U	38,000	1,300U	7,200	27,000
Beryllium, total	500U	910	260J	820	1,000
Cadmium, total	1,000U	2,800	1,300U	2,300	5,400
Chromium, total	5,000U	3,900J	11,000	33,000	78,000
Copper, total	5,000U	46,000	12,000	86,000	8,000
Lead, total	10,000U	56,000	16,000	100,000	160,000
Mercury, total	200U	240U	260U	460U	510
Nickel, total	4,000U	3,900J	3,500J	17,000	16,000
Selenium, total	1,000U	1,200U	1,300U	1,400U	1,300U
Silver, total	5,000U	6,100U	6,400	6,900U	8,200
Thallium, total	1,000U	1,200U	1,300U	1,400U	1,300U
Zinc, total	2,000U	43,000	40,000	240,000	510,000
Cyanide, total	250U	300U	320U	350U	320U
Phenolics, total, as phenol	250U	300U	320U	280J	640
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)

Parameter	A14558-5 BSA 0811747	A14558-6 BSA 0811748	A14558-7 BSA 0811749	A14558-8 BSA 0811750
	Sample Designation			
Antimony, total	1,200,000	670,000	310,000	340,000
Arsenic, total	17,000	880J	14,000	18,000
Beryllium, total	3,500	1,500	810	1,300
Cadmium, total	18,000	5,400	1,700U	6,100
Chromium, total	750,000	5,200	42,000	120,000
Copper, total	370,000	29,000	45,000	130,000
Lead, total	1,100,000	49,000	130,000	230,000
Mercury, total	1,300	290U	670	1,000
Nickel, total	160,000	9,900	25,000	79,000
Selenium, total	2,000U	1,400U	2,100	1,400U
Silver, total	10,000U	7,700	9,900	6,800U
Thallium, total	2,000U	1,400U	1,700U	1,400U
Zinc, total	550,000	38,000	140,000	280,000
Cyanide, total	500U	360U	420U	340U
Phenolics, total, as phenol	9,600	270J	450	260J
Units	(ug/kg)	(ug/kg)	(ug/kg)	(ug/kg)

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

V. Analytical Results (CONT'D)

Metals, Cyanide and Phenolics

Parameter	Method Blank	Sample Designation A14558-9 BSA 0811753	A14558-10 BSA 0811746 Field Blank
Antimony, total	2,000U	16,000	60U
Arsenic, total	1,000U	1,500	10U
Beryllium, total	500U	300J	5U
Cadmium, total	1,000U	1,200	10U
Chromium, total	5,000U	4,600J	50U
Copper, total	5,000U	15,000	50U
Lead, total	10,000U	63,000	50U
Mercury, total	200U	540	2.0U
Nickel, total	4,000U	2,200J	40U
Selenium, total	1,000U	1,100U	10U
Silver, total	5,000U	5,400U	50U
Thallium, total	1,000U	1,100U	40U
Zinc, total	2,000U	40,000	20U
Cyanide, total	250U	270U	25U
Phenolics, total, as phenol	250U	270U	30
Units	(ug/kg)	(ug/kg)	(ug/l)

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

VI. Quality Assurance Data

Volatile Organics

Nonaqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Sample Spiked A14558-9

Constituent	Method Blank	Amount of Spike	Recovery MS	Recovery MSD	RPD	Acceptability Limits Max. RPD	Acceptability Limits Recovery
Chloromethane	10U	0.25	48	27	55	123	0-261
Bromomethane	10U	0.25	70	69	1	35	17-160
Vinyl Chloride	10U	0.25	75	69	8	63	0-200
Chloroethane	10U	0.25	90	99	10	43	0-214
Methylene Chloride	10U	0.25	164	51	22	31	59-144
1,1-Dichloroethene	10U	0.25	94	107	12	26	54-142
1,1-Dichloroethane	10U	0.25	107	120	11	24	62-132
trans-1,2-Dichloroethene	10U	0.25	87	100	14	28	62-127
Chloroform	10U	0.25	110	123	12	32	63-131
1,2-Dichloroethane	10U	0.25	107	116	8	36	57-136
1,1,1-Trichloroethane	10U	0.25	101	113	11	23	63-128
Carbon Tetrachloride	10U	0.25	96	110	13	24	52-133
Bromodichloromethane	10U	0.25	98	110	12	24	58-128
1,2-Dichloropropane	10U	0.25	107	121	12	21	59-134
trans-1,3-Dichloropropene	10U	0.25	81	90	10	22	62-124
Trichloroethene (TCE)	10U	0.25	87	98	12	19	71-126
Dibromochloromethane	10U	0.25	97	110	12	25	50-129
1,1,2-Trichloroethane	10U	0.25	105	119	12	21	69-120
Benzene	10U	0.25	100	113	12	21	72-125
cis-1,3-Dichloropropene	10U	0.25	82	92	12	24	53-128
2-Chloroethyl Vinyl Ether	10U	0.25	113	131	15	32	55-126
Bromoform	10U	0.25	102	119	15	31	26-143
Tetrachloroethene	10U	0.25	88	110	22	19	62-137
1,1,2,2-Tetrachloroethane	10U	0.25	125	154	21	25	43-134
Toluene	10U	0.25	100	121	18	18	78-120
Chlorobenzene	10U	0.25	89	110	21	17	78-118
Ethyl Benzene	10U	0.25	91	112	21	19	74-122
Xylenes, total	30U	0.25	97	114	16	45	19-183
Units	(ug/l)	(ug)	(%)	(%)	(%)	(%)	(%)

Recovery: 4 out of 56 outside limits

% RPD: 3 out of 28 outside limits

VI. Quality Assurance Data

Priority Pollutant Analyses

Volatile Organics

Nonaqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Sample Spiked A14558-4

Constituent	Method Blank	Amount of Spike	Recovery MS	Recovery MSD	RPD	Acceptability Limits Max. RPD	Acceptability Limits Recovery
Chloromethane	330U	0.25	99	192	64	123	0-261
Bromomethane	330U	0.25	61	72	17	35	17-160
Vinyl Chloride	330U	0.25	61	79	26	63	0-200
Chloroethane	330U	0.25	93	95	2	43	0-214
Methylene Chloride	330U	0.25	101	113	11	31	59-144
1,1-Dichloroethene	330U	0.25	93	107	14	26	54-142
1,1-Dichloroethane	330U	0.25	89	114	25	24	62-132
trans-1,2-Dichloroethene	330U	0.25	80	106	27	28	62-127
Chloroform	330U	0.25	85	109	25	32	63-131
1,2-Dichloroethane	330U	0.25	91	104	13	36	57-136
1,1,1-Trichloroethane	330U	0.25	95	105	10	23	63-128
Carbon Tetrachloride	330U	0.25	95	110	15	24	52-133
Bromodichloromethane	330U	0.25	95	104	9	24	58-128
1,2-Dichloropropane	330U	0.25	91	106	15	21	59-134
trans-1,3-Dichloropropene	330U	0.25	93	102	10	22	62-124
Trichloroethene (TCE)	330U	0.25	94	100	6	19	71-126
Dibromochloromethane	330U	0.25	94	97	3	25	50-129
1,1,2-Trichloroethane	330U	0.25	93	93	0	21	69-120
Benzene	330U	0.25	93	104	11	21	72-125
cis-1,3-Dichloropropene	330U	0.25	95	102	7	24	53-128
2-Chloroethyl Vinyl Ether	330U	0.25	96	94	1	32	55-126
Bromoform	330U	0.25	90	87	4	31	26-143
Tetrachloroethene	330U	0.25	96	101	6	19	62-137
1,1,2,2-Tetrachloroethane	330U	0.25	89	85	5	25	43-134
Toluene	330U	0.25	96	105	9	18	78-120
Chlorobenzene	330U	0.25	96	105	8	17	78-118
Ethyl Benzene	330U	0.25	96	107	10	19	74-122
Xylenes, total	330U	0.25	99	111	12	45	19-183
Units	(ug/kg)	(ug)	(%)	(%)	(%)	(%)	(%)

Recovery: 0 out of 56 outside limits

% RPD: 1 out of 28 outside limits

V. Analytical Results (CONT'D)

Other Analyses

Total Solids

	Parameter
Sample Designation	Total Solids
Method Blank	0.1U
A14558-1	82
A14558-2	78
A14558-3	72
A14558-4	77
A14558-5	50
A14558-6	70
A14558-7	60
A14558-8	74
A14558-9	92
Units	(%)

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

VI. Quality Assurance Data (CONT'D)

Volatile Organics

Nonaqueous Surrogate Recovery Data

Sample Designation	Amount Added, ug	Surrogate % Recovery 1,2-Dichloroethane-d_4	Toluene-d_8	4-Bromofluorobenzene
Method Blank 1	0.25	91	99	99
Method Blank 2	0.25	96	100	101
Method Blank 3	0.25	91	98	98
Method Blank 5	0.25	89	99	101
A14558-1	0.25	86	109	88
A14558-2	0.25	91	100	100
A14558-3	0.25	94	102	102
A14558-4	0.25	97	99	106
A14558-5	0.25	94	108	86
A14558-6	0.25	89	189	45
A14558-6 Reanalysis	0.25	91	187	102
A14558-7	0.25	90	117	73
A14558-7 Reanalysis	0.25	104	101	67
A14558-8	0.25	97	100	103
A14558-9	0.25	97	101	94
Acceptability Limits		63-132	87-112	77-122

6 out of 45 surrogate recoveries are outside acceptability limits.

VI. Quality Assurance Data (CONT'D)

Volatile Organics

Aqueous Surrogate Recovery Data

Sample Designation	Amount Added, ug	Surrogate % Recovery: 1,2-Dichloroethane-d_4	Toluene-d_8	4-Bromofluorobenzene
Method Blank 4	0.25	92	100	107
A14558-10	0.25	93	101	107
A14558-11	0.25	94	102	107
Acceptability Limits		65-130	79-117	73-128

0 out of 9 surrogate recoveries are outside acceptability limits.

VI. Quality Assurance Data (CONT'D)

Semivolatile Organics

Nonaqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Sample Spiked A14558-3

Constituent	Amount of Spike	Recovery MS	Recovery MSD	RPD	Acceptability Limits Max. RPD	Acceptability Limits Recovery
1,4-Dichlorobenzene	100	46	74	47	56	13-130
N-Nitroso-di-n-propylamine	100	56	96	53	123	0-125
1,2,4-Trichlorobenzene	100	55	92	50	44	29-115
Acenaphthene	100	68	113	50	57	24-121
2,4-Dinitrotoluene	100	74	113	42	80	0-121
Pyrene	100	128	131	2	61	0-175
Phenol	200	76	66	14	51	0-155
2-Chlorophenol	200	72	62	15	60	0-151
4-Chloro-3-methylphenol	200	83	84	1	52	1-138
4-Nitrophenol	200	153	154	1	115	0-125
Pentachlorophenol	200	114	110	4	172	0-178
Units	(ug)	(%)	(%)	(%)	(%)	(%)

Recovery: 2 out of 22 outside limits

% RPD: 1 out of 11 outside limits

VI. Quality Assurance Data (CONT'D)

Semivolatile Organics

Nonaqueous Surrogate Recovery Data

		Surrogate % Recovery		
Sample Designation	Amount Added, ug	2-Fluorophenol	Phenol-d_5	2,4,6-Tribromophenol
Method Blank	100	67	72	77
A14558-3 Spike	100	75	86	79
A14558-3 Spike Dup.	100	65	78	107
A14558-3	100	78	92	69
A14558-8	100	106	99	78
A14558-9	100	70	80	74
A14558-1	100	92	108	87
A14558-2	100	73	80	81
A14558-6	100	64	93	21
A14558-5	100	67	81	66
A14558-7	100	89	89	73
A14558-4	100	91	102	160
Acceptability Limits		25-121	24-113	19-122

		Surrogate % Recovery		
Sample Designation	Amount Added, ug	Nitrobenzene-d_5	2-Fluorobiphenyl	Terphenyl-d_{14}
Method Blank	50	62	68	89
A14558-3 Spike	50	79	85	89
A14558-3 Spike Dup.	50	69	75	86
A14558-3	50	79	80	71
A14558-8	50	74	82	120
A14558-9	50	58	71	105
A14558-1	50	72	86	101
A14558-2	50	72	79	96
A14558-6	50	66	90	83
A14558-5	50	62	74	84
A14558-7	50	71	85	123
A14558-4	50	115	95	116
Acceptability Limits		18-137	23-120	30-115

4 of 72 surrogate recoveries are outside acceptability limits.

VI. Quality Assurance Data (CONT'D)

Semivolatile Organics

Nonaqueous Surrogate Recovery Data

		Surrogate % Recovery		
Sample Designation	Amount Added, ug	2-Fluorophenol	Phenol-d_5	2,4,6-Tribromophenol
A14558-10	200	84	73	78
Acceptability Limits		25-121	24-113	19-122

0 out of 3 surrogate recoveries are outside acceptability limits.

		Surrogate % Recovery		
Sample Designation	Amount Added, ug	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
A14558-10	100	99	120	133
Acceptability Limits		35-114	43-116	33-141

1 out of 3 surrogate recoveries are outside acceptability limits.

VI. Quality Assurance Data (CONT'D)

Pesticides and Polychlorinated Biphenyls

Nonaqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Pesticide Sample Spiked A14558-1
PCB Sample Spiked A14558-9

Constituent	Amount Of Spike	Recovery MS	Recovery MSD	RPD	Acceptability Limits Max. RPD	Acceptability Limits Recovery
Aldrin	1.0	142	151	6	46	22-142
gamma BHC (lindane)	0.55	118	159	30	149	0-429
Dieldrin	1.0	125	129	3	135	14-177
4,4'-DDT	2.5	189	160	17	148	0-189
Endosulfan I	10	144	141	2	84	6-193
Endosulfan II	2.0	25	25	0	80	9-132
Endrin Aldehyde	2.5	NR	NR	--	146	0-114
Heptachlor	1.03	229	243	6.0	76	11-136
Heptachlor Epoxide	0.96	132	132	0	67	0-340
Toxaphene	75	74	--	--	68	30-143
Aroclor 1242	50	97	79	20	29	16-166
Units	(ug)	(%)	(%)	(%)	(%)	(%)

Recovery: 3 out of 18 outside limits

% RPD: 0 out of 9 outside limits

NR - Not recovered due to matrix interference.

VI. Quality Assurance Data (CONT'D)

Pesticides and Polychlorinated Biphenyls

Nonaqueous Surrogate Recovery Data and Retention Time Shift

		Dibutylchlorendate	
Sample Designation	Amount Added, ug	% Recovery	RT Shift (%)
Method Blank	2.0	91	0.8
A14558-1 Spike (Pest.)	4.9	125	0.7
A14558-1 Spike Dup. (Pest.)	4.9	126	0.7
A14558-9 Spike (PCB)	2.0	89	1.1
A14558-9 Spike Dup. (PCB)	2.0	79	0.1
A14558-Blk Spike (Tox.)	75	137	0.8
A14558-1	2.0	73	0.1
A14558-2	2.0	73	0.1
A14558-3	2.0	80	0.6
A14558-4	2.0	93	0
A14558-5	2.0	140	0.1
A14558-6	2.0	NR	--
A14558-7	2.0	105	0.4
A14558-8	2.0	62	0.7
A14558-9	2.0	75	0.3
Acceptability Limits		20-150	0-2

Note: Recovery limits for dibutylchlorendate are for advisory purposes only.

NR - Not recovered due to matrix interference.

VI. Quality Assurance Data (CONT'D)

Pesticides and Polychlorinated Biphenyls

Aqueous Surrogate Recovery Data and Retention Time Shift

		Dibutylchlorendate	
Sample Designation	Amount Added, ug	% Recovery	RT Shift (%)
A14558-10	3.6	60	0.1
Acceptability Limits		48-136	0-2

Note: Recovery limits for dibutylchlorendate are for advisory purposes only.

VI. Quality Assurance Data (CONT'D)

Metals, Cyanide and Phenolics

Nonaqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Sample Spiked A14558-9

Constituent	Amount of Spike	Recovery MS	Recovery MSD	RPD	Acceptability Limits Max. RPD	Acceptability Limits Recovery
Antimony	500	118	105	12	67	0-167
Arsenic	500	89	93	4	22	34-134
Beryllium	500	99	99	0	28	53-113
Cadmium	500	101	102	1	12	46-112
Chromium	500	96	95	1	27	35-131
Copper	500	96	99	3	13	36-132
Lead	500	95	98	3	23	21-135
Mercury	20	80	76	5	19	58-134
Nickel	500	101	101	0	8	50-110
Selenium	500	87	84	3	27	26-154
Silver	500	24	18	29	38	0-77
Thallium	500	72	72	0	11	83-111
Zinc	500	93	97	4	10	16-142
Cyanide	30	92	90	2	69	31-139
Phenolics	10	99	95	4	94	29-167
Units	(ug)	(%)	(%)	(%)	(%)	(%)

Recovery: 2 out of 30 outside limits

% RPD: 0 out of 15 outside limits

AnalytiKEM *An American NuKEM Company*

AnalytiKEM Inc.
28 Springdale Road
Cherry Hill, NJ 08003
609/751-1122
215/923-2068

CHAIN OF CUSTODY RECORD

Name of Unit and Address	NJDEP/DHWM/BPA 65 Prospect ST Trenton NJ 08618

Number	Item	Description of Samples
		8 - 40 ml Vials Glass 3 - 1-Liter Glass 1 - 500 ml Glass 2 - 500 ml Plastic 2 - 1 gal Glass Remarks: Cooler 19

Person Assuming Responsibility for Samples:	Time	Date
Edward Haver	1430	8/11/8

Number	Relinquished by:	Received by:	Time	Date	Reason for Change of Custody
Number	Relinquished by:	Received by:	Time	Date	Reason for Change of Custody
Number	Relinquished by:	Received by:	Time	Date	Reason of Change of Custody
Number	Relinquished by:	Received by:	Time	Date	Reason of Change of Custody

AnalytiKEM An American NuKEM Company

AnalytiKEM Inc.
28 Springdale Road
Cherry Hill, NJ 08003
609/751-1122
215/923-2068

CHAIN OF CUSTODY RECORD

Name of Unit and Address: NJDEP/DHQM/BAA
65 Prospect St
Trenton NJ 08618

Number	Item	Description of Samples
9		1-liter amber Bottles Soil Samples
18		40 ml Vials (amber)

Remarks:

Cooler 3

Person Assuming Responsibility for Samples: Edward Haven

Time: 1430 Date: 8/11/87

Number	Relinquished by:	Received by:	Time	Date	Reason for Change of Custody

Number	Relinquished by:	Received by:	Time	Date	Reason for Change of Custody

Number	Relinquished by:	Received by:	Time	Date	Reason of Change of Custody

Number	Relinquished by:	Received by:	Time	Date	Reason of Change of Custody

SAMPLE CALCULATIONS VOA

I. Aqueous:

The Quantitation Report gives analyte quantitation in ug/l for a 5-ml purge. For other purge volumes the calculation is as follows:

$$\text{Analyte concentration} = Cq \times \frac{5\ ml}{Vp}$$

II. Solids:

The Quantitation Report gives analyte quantitation in ug/kg* for a 5-g purge. For other purge weights the calculation is as follows:

$$\text{Analyte concentration} = Cq \times \frac{5\ g}{Vp} \times \frac{Vf}{Wi} \times \frac{1}{TS}$$

where:

Cq = concentration of analyte read directly from Quantitation Report (ug/l for aqueous, ug/kg for solids).

Vp = volume purged (ml)

Vf = final sample extract volume (ml)

Wi = weight of sample extracted (g)

Ts = percent total solid/100

*Since Finnigan software does not allow for conveniently changing the quantitation units, the report is always in ug/l even when ug/kg is intended.

III. Surrogates & Spikes:

Surrogates and spikes are injected at 250 ng, which is equivalent to 50 ppb in a 5 ml or 5 g purge. Percent recovery is calculated as follows:

$$\text{Surrogate \% recovery} = \frac{Cq}{50\ ppb} \times 100\%$$

$$\text{Spike \% recovery} = \frac{Cqm - Cqs}{50\ ppb} \times 100\%$$

where:

Cq = concentration of surrogate read directly from Quantitation Report (ppb)

Cqm = concentration of spiked compound in matrix spike read directly from Quantitation Report (ppb)

Cqs = concentration of spiked compound in sample read directly from Quantitation Report (ppb)

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	0811754	101	107	93		0
02	0811755	102	107	94		0
03	AQBLNK8-17A	99	99	91		0
04	AQBLNK8-18A	100	107	92		0
05	AQBLNK8-19A	98	98	91		0
06	AQBLNK8-19P	102	105	99		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

60

2B

SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (TOL)	#	S2 (BFB)	#	S3 (DCE)	#	OTHER	TOT OUT
01	0811745-R	109		88		86			0
02	0811746-R	100		100		91			0
03	0811747-R	102		102		94			0
04	0811749-R2	108		86		94			0
05	0811750-R3	189	*	45	*	89			2
06	0811750-R4	187	*	102		91			2
07	0811751-R2	117	*	73	*	90			2
08	0811751-R3	121	*	67	*	104			2
09	0811753-R	101		94		97			0
10	0811753-S	109		93		106			0
11	0811753-SD	106		90		104			0
12	0811753SDR	111		93		114			0
13	0811753SR	105		99		113			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

2B

SOIL VOLATILE SURROGATE RECOVERY

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Level: (low/med) MED

	EPA SAMPLE NO.	S1 (TOL) #	S2 (BFB) #	S3 (DCE) #	OTHER	TOT OUT
01	0811748-R2	99	106	97		0
02	0811748-SD	101	102	104		0
03	0811748-SR	99	100	94		0
04	0811752	100	103	97		0
05	NABLNK8-18A	100	106	97		0
06	NABLNK8-18F	99	101	89		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

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Lab File ID: VB0817BWA Lab Sample ID: AQBLNK8-17A

Date Analyzed: 08/17/87 Time Analyzed: 0708

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

Instrument ID: 5100B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	0811745-R	14558-1R	14558V1R	0853
02	0811746-R	14558-2R	14558V2R	0934
03	0811747-R	14558-3R	14558V3R	1015
04	AQBLNK8-17A	AQBLNK8-17A	VB0817BWA	0708

COMMENTS: AQ BLANK
5ML PURGE

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Lab File ID: VB0818BSA Lab Sample ID: NABLNK8-18A

Date Analyzed: 08/18/87 Time Analyzed: 1803

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

Instrument ID: 5100B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	0811743-R2	14558-4R2	14558V4R2	1844
02	NABLNK8-18A	NABLNK8-18A	VB0818BSA	1803

COMMENTS: NA BLANK
100 UL PURGE

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Lab File ID: VB0815BWA Lab Sample ID: AQBLNKS-18A

Date Analyzed: 08/18/87 Time Analyzed: 1551

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

Instrument ID: 5100B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	0811754	14558-10	14558V10	1641
02	0811755	14558-11	14558V11	1722
03	AQBLNKS-18A	AQBLNKS-18A	VB0818BWA	1551

COMMENTS: AQ BLANK
5.0 ML PURGE

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Lab File ID: VB0813BSP Lab Sample ID: NABLNK8-18P

Date Analyzed: 08/18/87 Time Analyzed: 2122

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

Instrument ID: 5100B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	0811748-SD	14558-4-SD	14558V4SD	0149
02	0811748-SR	14558-4-SR	14558V4SR	0702
03	0811752	14558-8	14558V8	0316
04	NABLNK8-18P	NABLNK8-18P	VB0813BSP	2122

COMMENTS: NA BLANK
100 UL PURGE

AP

VOLATILE METHOD BLANK SUMMARY

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Lab File ID: VB08195WA Lab Sample ID: AQBLNK8-19A

Date Analyzed: 08/19/87 Time Analyzed: 1047

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

Instrument ID: 5100B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	0811749-R2	14558-5R2	14558V5R2	1139
02	0811750-R3	14558-6R3	14558V6R3	1453
03	0811750-R4	14558-6R4	14558V6R4	2032
04	0811751-R2	14558-7R2	14558V7R2	1330
05	0811751-R3	14558-7R3	14558V7R3	1710
06	0811753-R	14558-9R	14558V9R	1411
07	0811753-S	14558-9S	14558V9S	1803
08	0811753-SD	14558-9SD	14558V9SD	1850
09	AQBLNK8-19A	AQBLNK8-19A	VB08195WA	1047

COMMENTS: AQ BLANK
5.0 ML PURGE

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Lab File ID: VB08192WP Lab Sample ID: AQBLNK8-19P

Date Analyzed: 08/20/87 Time Analyzed: 0141

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

Instrument ID: 5100B

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	0811753SDR	14558-9-SDR	14558V9SDR	0303
02	0811753SR	14558-9-SR	14558V9SR	0222
03	AQBLNK8-19P	AQBLNK8-19P	VB0819BWP	0141

COMMENTS: AQ BLANK
5.0 ML PURGE

5A

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

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Lab File ID: BFB0817BA BFB Injection Date: 08/17/87

Instrument ID: 5100B BFB Injection Time: 0136

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.0
75	30.0 - 60.0% of mass 95	41.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	(0.0) 1
174	Greater than 50.0% of mass 95	86.8
175	5.0 - 9.0% of mass 174	(8.6) 1
176	Greater than 95.0%, but less than 101.0% of mass 174	(96.0) 1
177	5.0 - 9.0% of mass 176	(7.0) 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	20UG-L-STD	20UG-L-STD	V0817B2A	08/17/87	0201
02	200UG-L-STD	200UG-L-STD	V0817B20A	08/17/87	0242
03	150UG-L-STD	150UG-L-STD	V0817B15A	08/17/87	0407
04	100UG-L-STD	100UG-L-STD	V0817B10A	08/17/87	0449
05	50UG-L-STD	50UG-L-STD	V0817B5AR	08/17/87	0545
06	AQBLNK8-17A	AQBLNK8-17A	VB0817BWA	08/17/87	0708
07	0811745-R	14558-1R	14558V1R	08/17/87	0853
08	0811746-R	14558-2R	14558V2R	08/17/87	0934
09	0811747-R	14558-3R	14558V3R	08/17/87	1015

5A

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

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Lab File ID: BFB0818SA BFB Injection Date: 08/18/87

Instrument ID: E1008 BFB Injection Time: 0821

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	41.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	(0.0) 1
174	Greater than 50.0% of mass 95	84.2
175	5.0 - 9.0% of mass 174	(8.5) 1
176	Greater than 95.0%, but less than 101.0% of mass 174	(96.2) 1
177	5.0 - 9.0% of mass 176	(7.2) 2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	50UG_L_STD	50UG_L_STD	V0818B5A	08/18/87	0852
02	200UG_L_STD	200UG_L_STD	V0818B20A	08/18/87	0957
03	20UG_L_STD	20UG_L_STD	V0818B2A	08/18/87	1038
04	150UG_L_STD	150UG_L_STD	V0818B15A	08/18/87	1119
05	100UG_L_STD	100UG_L_STD	V0818B10A	08/18/87	1200
06	AQBLNK8-18A	AQBLNK8-18A	VB0818BWA	08/18/87	1551
07	0811754	14558-10	14558V10	08/18/87	1641
08	0811755	14558-11	14558V11	08/18/87	1722
09	NABLNK8-18A	NABLNK8-18A	VB0818BSA	08/18/87	1803
10	0811748-R2	14558-4R2	14558V4R2	08/18/87	1844

EA

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

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Lab File ID: BFB0818BP BFB Injection Date: 08/18/87

Instrument ID: 5100B BFB Injection Time: 1956

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.2
75	30.0 - 60.0% of mass 95	41.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.7
173	Less than 2.0% of mass 174	(0.0) 1
174	Greater than 50.0% of mass 95	88.4
175	5.0 - 9.0% of mass 174	(8.5) 1
176	Greater than 95.0%, but less than 101.0% of mass 174	(96.5) 1
177	5.0 - 9.0% of mass 176	(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	50UG-L-STD	50UG-L-STD	V0819B5P	08/18/87	2016
02	NABLNK8-18P	NABLNK8-18P	VB0818B8P	08/18/87	2122
03	0811748-SD	14558-4-SD	14558V4SD	08/19/87	0149
04	0811752	14558-8	14558V8	08/19/87	0316
05	0811748-SR	14558-4-SR	14558V4SR	08/19/87	0702

5A

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

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Lab File ID: BFB0819BA BFB Injection Date: 08/19/87

Instrument ID: 5100B BFB Injection Time: 0911

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

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	37.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	(0.0) 1
174	Greater than 50.0% of mass 95	72.2
175	5.0 - 9.0% of mass 174	(5.2) 1
176	Greater than 95.0%, but less than 101.0% of mass 174	(100.0) 1
177	5.0 - 9.0% of mass 176	(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	50UG_L_STD	50UG_L_STD	V0819B5A	08/19/87	0942
02	AQBLNKS-19A	AQBLNKS-19A	VB0819BWA	08/19/87	1047
03	0811749-R2	14558-5R2	14558V5R2	08/19/87	1139
04	0811751-R2	14558-7R2	14558V7R2	08/19/87	1330
05	0811753-R	14558-9R	14558V9R	08/19/87	1411
06	0811750-R3	14558-6R3	14558V6R3	08/19/87	1453
07	0811751-R3	14558-7R3	14558V7R3	08/19/87	1710
08	0811753-S	14558-9S	14558V9S	08/19/87	1803
09	0811753-SD	14558-9SD	14558V9SD	08/19/87	1850
10	0811750-R4	14558-6R4	14558V6R4	08/19/87	2032

EA

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

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Lab File ID: BFB0819BP BFB Injection Date: 08/19/87

Instrument ID: 5100S BFB Injection Time: 2206

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	40.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.4
173	Less than 2.0% of mass 174	(0.0)1
174	Greater than 50.0% of mass 95	80.4
175	5.0 - 9.0% of mass 174	(8.6)1
176	Greater than 95.0%, but less than 101.0% of mass 174	(96.7)1
177	5.0 - 9.0% of mass 176	(7.0)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	50UG-L-STD	50UG-L-STD	V0819BSF	08/19/87	2225
02	AQBLNK8-19P	AQBLNK8-19P	VB0819BWP	08/20/87	0141
03	0811753SR	14558-9-SR	14558V9SR	08/20/87	0222
04	0811753SDR	14558-9-SDR	14558V9SDR	08/20/87	0303

SAMPLE RIC

VOLATILE ORGANICS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0811745-R

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14338 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-1R

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 14558V1R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 18 Date Analyzed: 08/17/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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	14	
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
110-75-8	2-Chloroethylvinylether	12	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	12	U
108-88-3	Toluene	5	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
----------	Total Xylenes	6	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 08I1745-R

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14556 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-1R

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 14558V1R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 18 Date Analyzed: 08/17/87

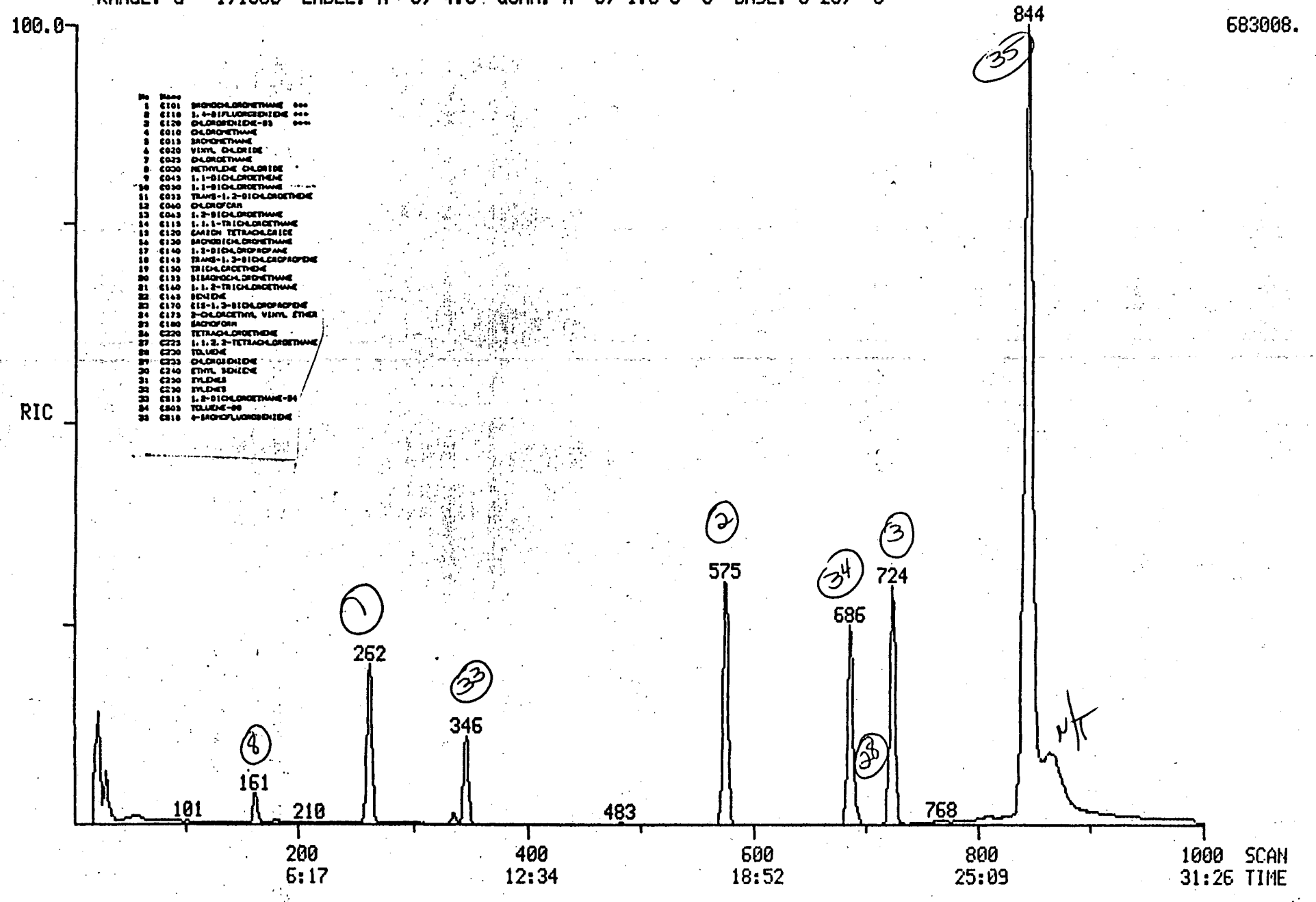
Column (pack/cap) PACKED Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

MIDRIC
08/17/87 8:53:00
SAMPLE: 14558-1
CONDS.: 5.1825 G
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V1R #1 SCANS 1 TO 1000
CALI: 14485V1 #2



Quantitation Report File: 14558V1R

Data: 14558V1R.TI
08/17/87 8:53:00
Sample: 14558-1
Conds.: 5.1825 G
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

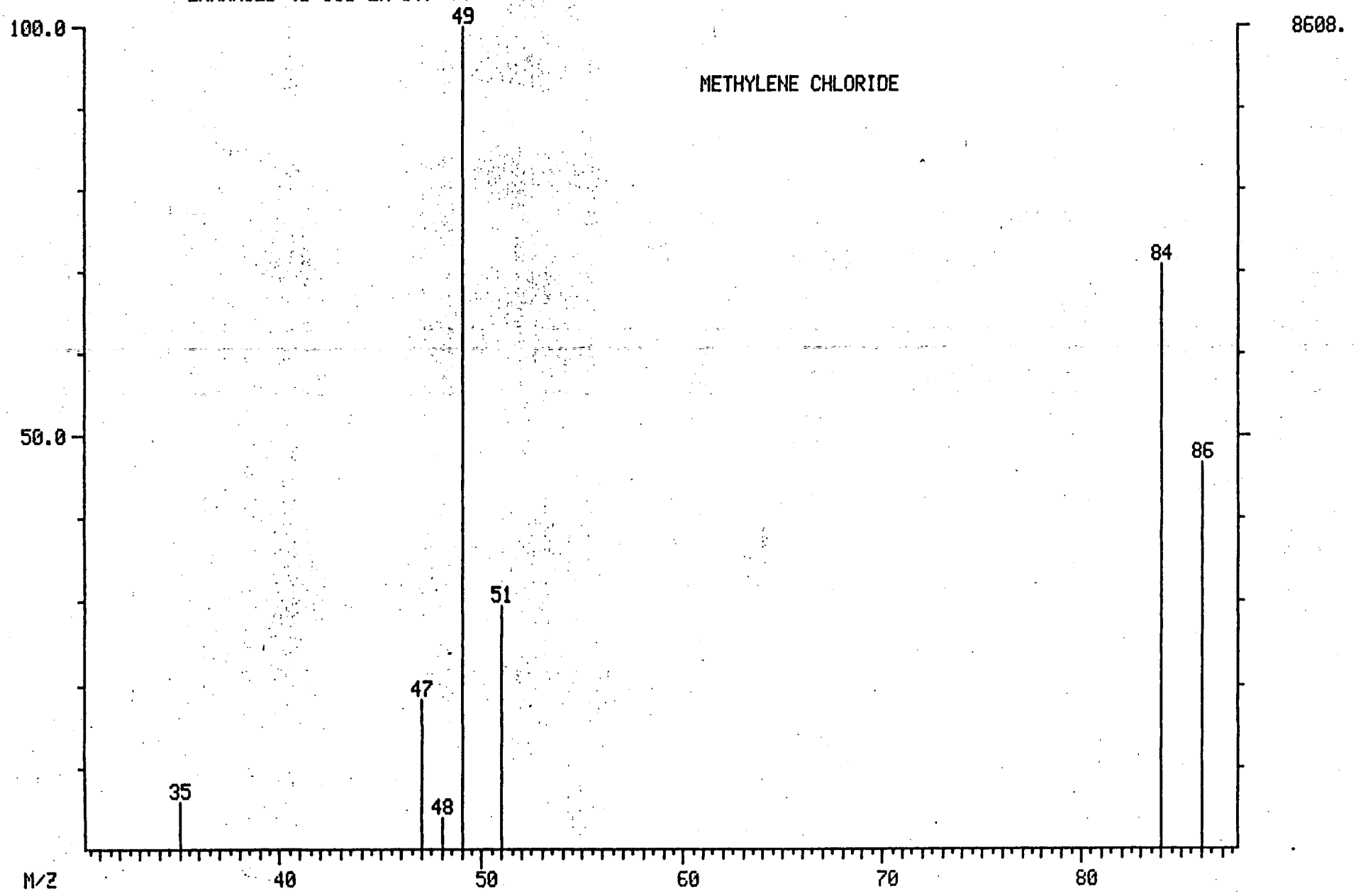
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	128	262	8:14	1	1.000	A BB	108520.	50.000 UG/L	16.23	
2	114	575	18:05	2	1.000	A BB	533261.	50.000 UG/L	16.23	
3	117	724	22:46	3	1.000	A BB	386030.	50.000 UG/L	16.23	
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	84	161	5:04	1	0.615	A BB	29844.	11.463 UG/L	3.72	Yes PA
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
17	NOT FOUND									
18	NOT FOUND									
19	130	484	15:13	2	0.842	A BB	~~3529.~~	~~0.554 UG/L~~	~~0.18~~	
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	92	692	21:45	3	0.956	A BB	21484.	4.280 UG/L	1.39	Yes PA
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	65	346	10:53	1	1.321	A BB	135191.	43.166 UG/L	14.01	Yes PA
34	98	686	21:34	3	0.948	A BB	373890.	54.493 UG/L	17.69	Yes PA
35	95	843	26:30	3	1.164	A BB	265246.	44.088 UG/L	14.31	Yes PA

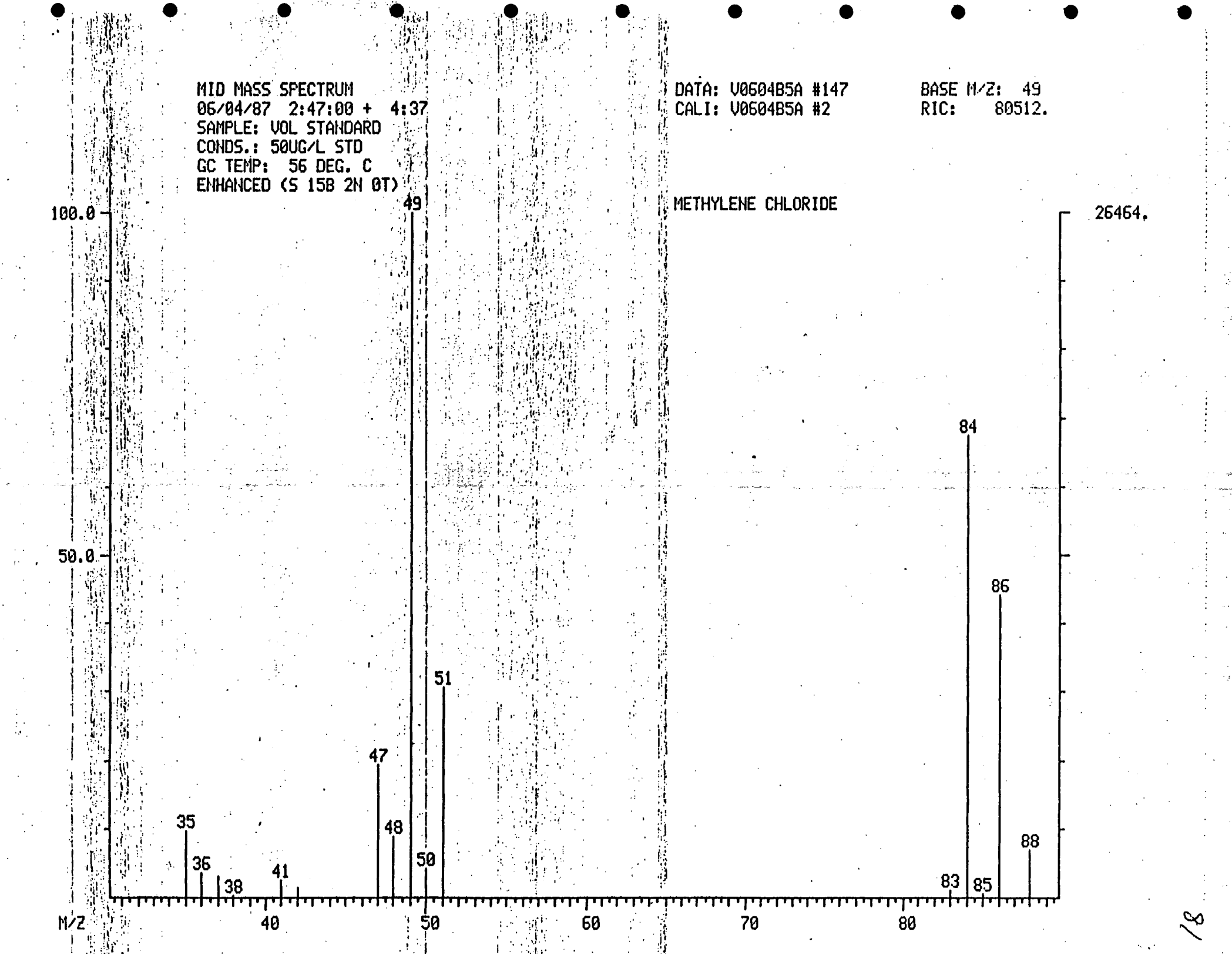
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:09	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:59	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:36	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:27		0.178			50.00		0.614	
5	2:06		0.259			50.00		1.282	
6	2:38		0.324			50.00		1.017	
7	3:18		0.405			50.00		0.665	
8	5:02	1.01	0.618	0.99	11.46	50.00	0.275	1.200	0.23
9	7:38		0.938			50.00		1.083	
10	8:52		1.089			50.00		2.298	
11	9:35		1.178			50.00		1.303	
12	10:13		1.255			50.00		2.969	
13	10:53		1.336			50.00		1.903	
14	12:04		0.671			50.00		0.452	
15	12:25		0.691			50.00		0.303	
16	13:05		0.727			50.00		0.553	
17	14:16		0.794			50.00		0.306	
18	14:33		0.809			50.00		0.555	
19	15:05	1.01	0.839	1.00	0.55	50.00	0.005	0.428	0.01
20	15:45		0.876			50.00		0.442	
21	15:51		0.881			50.00		0.317	
22	15:30		0.862			50.00		0.753	
23	15:47		0.878			50.00		0.234	
24	16:47		0.934			50.00		0.147	
25	18:20		1.019			50.00		0.335	
26	20:30		0.907			50.00		0.493	
27	20:32		0.908			50.00		0.626	
28	21:38	1.01	0.957	1.00	4.28	50.00	0.056	0.650	0.09
29	22:44		1.006			50.00		0.907	
30	24:27		1.082			50.00		0.402	
31	27:27		1.214			100.00		0.005	
32	28:04		1.242			50.00		0.448	
33	10:47	1.01	1.324	1.00	43.17	50.00	1.246	1.443	0.86
34	21:26	1.01	0.949	1.00	54.49	50.00	0.969	0.889	1.09
35	26:19	1.01	1.164	1.00	44.09	50.00	0.687	0.779	0.88

MID MASS SPECTRUM
08/17/87 8:53:00 + 5:04
SAMPLE: 14558-1
CONDS.: 5.1825 G
GC TEMP: 60 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V1R #161
CALI: 14558V1R #2

BASE M/Z: 49
RIC: 23712.

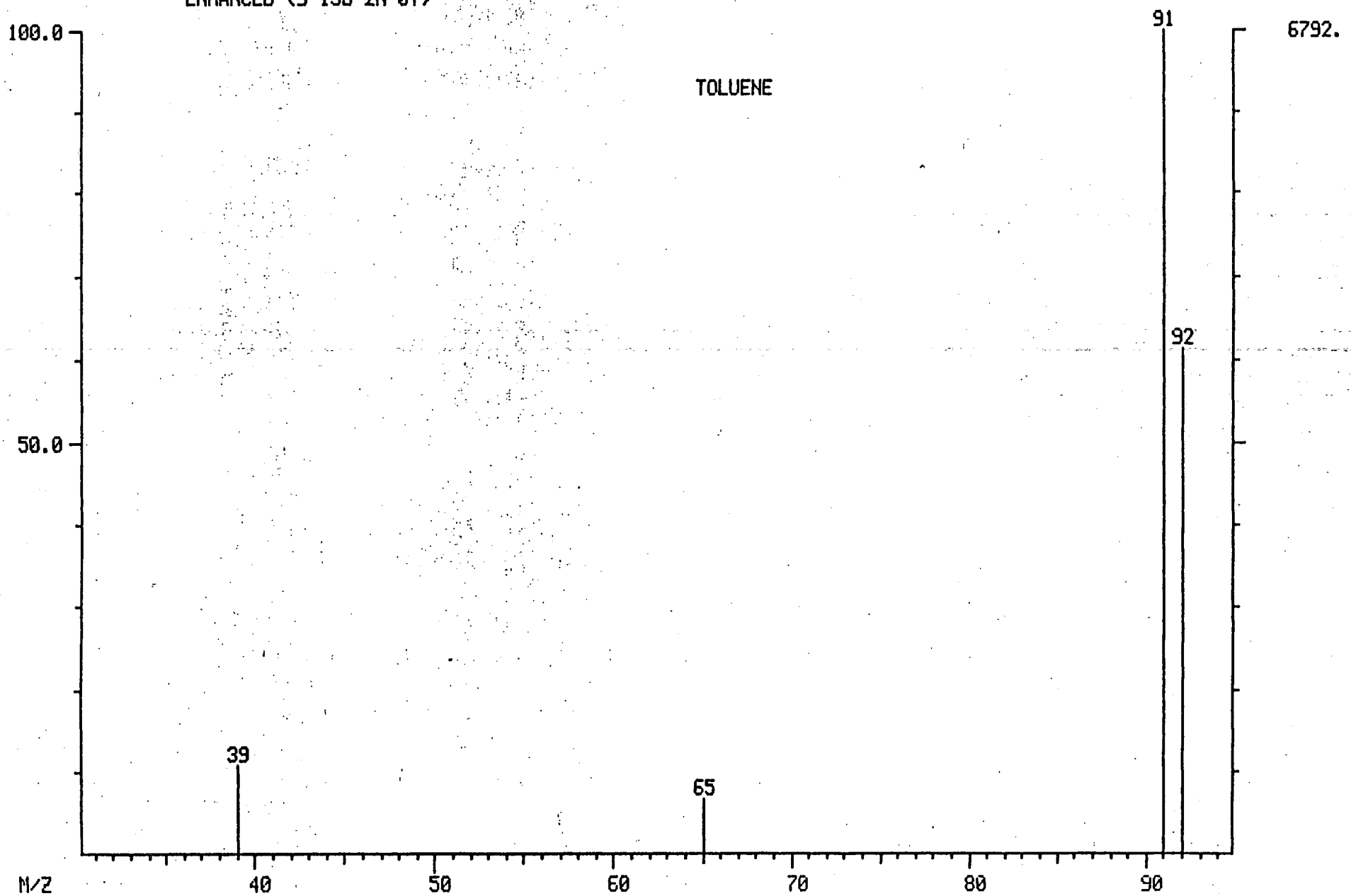



MID MASS SPECTRUM
06/04/87 2:47:00 + 4:37
SAMPLE: VOL STANDARD
CONDS.: 50UG/L STD
GC TEMP: 56 DEG. C
ENHANCED (S 15B 2N 0T)
DATA: V0604B5A #147
CALI: V0604B5A #2
BASE M/Z: 49
RIC: 80512.
METHYLENE CHLORIDE
26464.
100.0
50.0
M/Z
40
50
60
70
80
49
84
86
51
47
35
48
88
36
50
41
38
83
85

MID MASS SPECTRUM
08/17/87 8:53:00 + 21:45
SAMPLE: 14558-1
CONDS.: 5.1825 G
GC TEMP: 194 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V1R #692
CALI: 14558V1R #2

BASE M/Z: 91
RIC: 12144.

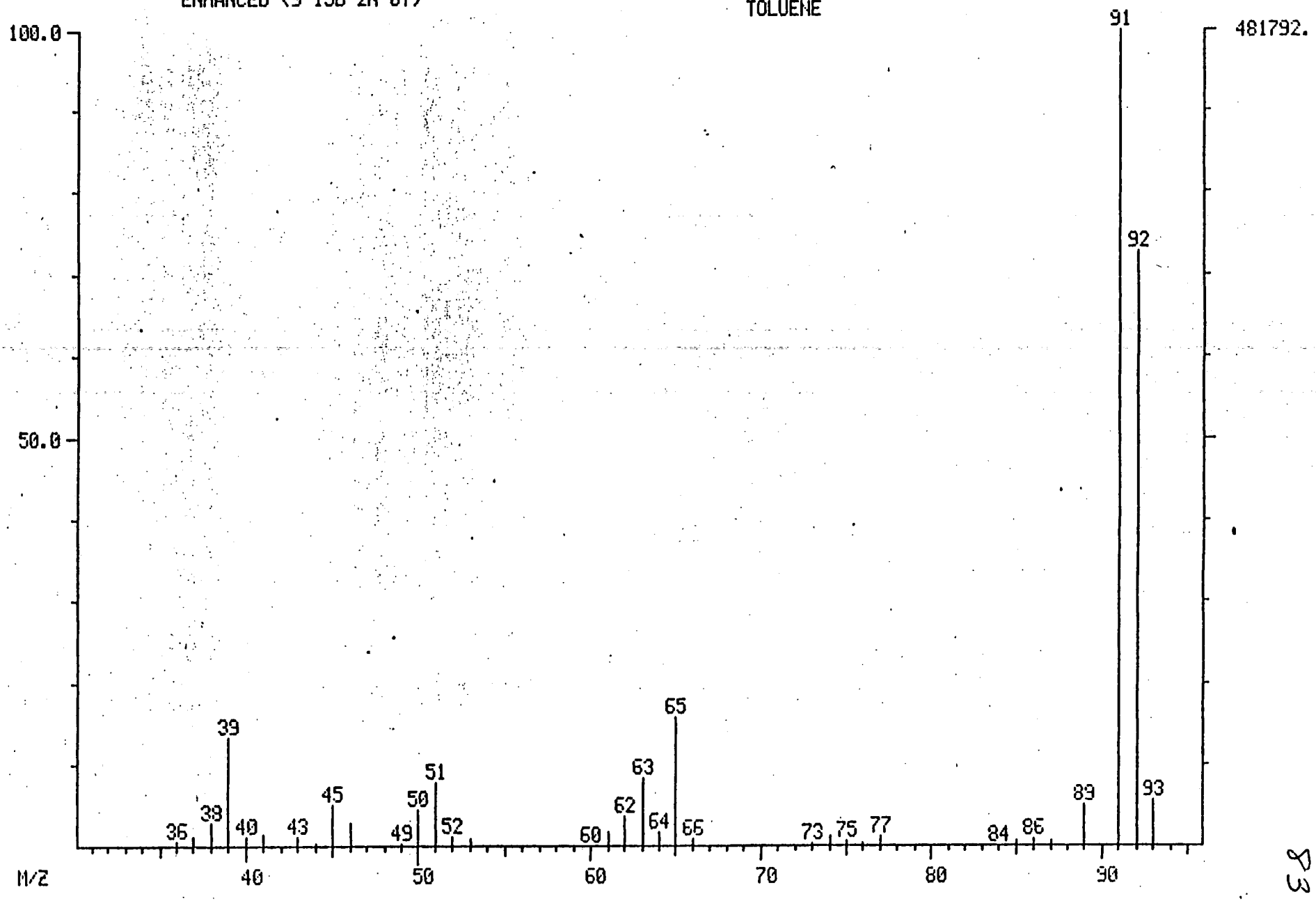


MID MASS SPECTRUM
02/21/87 11:08:00 + 21:13
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 189 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #676
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 1275900.

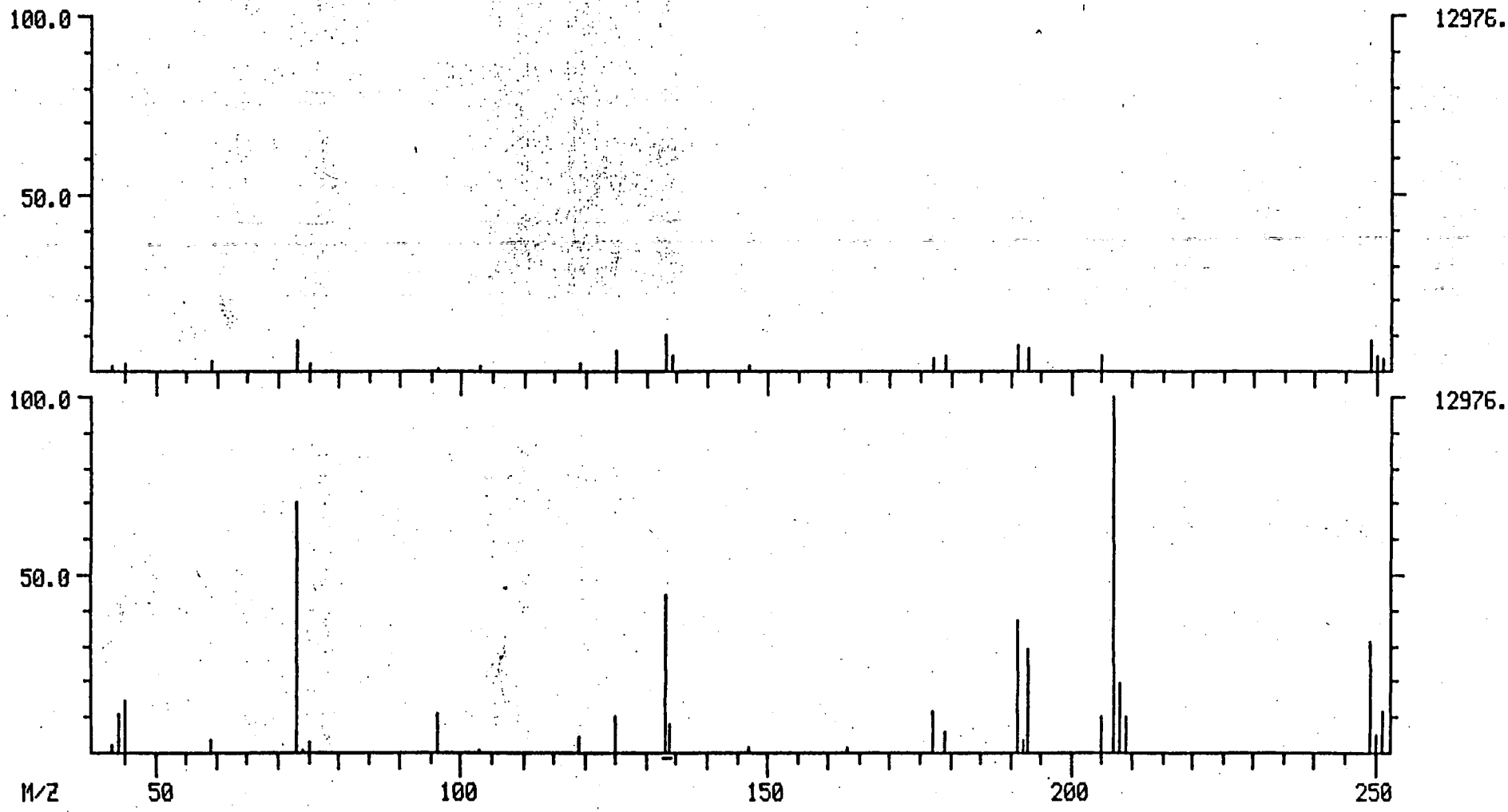
TOLUENE



MID DUAL MASS SPECTRUM
08/17/87 8:53:00 + 27:17
SAMPLE: 14558-1
CONDS.: 5.1825 G
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V1R #868
CALI: 14558V1R #2

BASE M/Z: 133/ 207
RIC: 10991./ 59903.

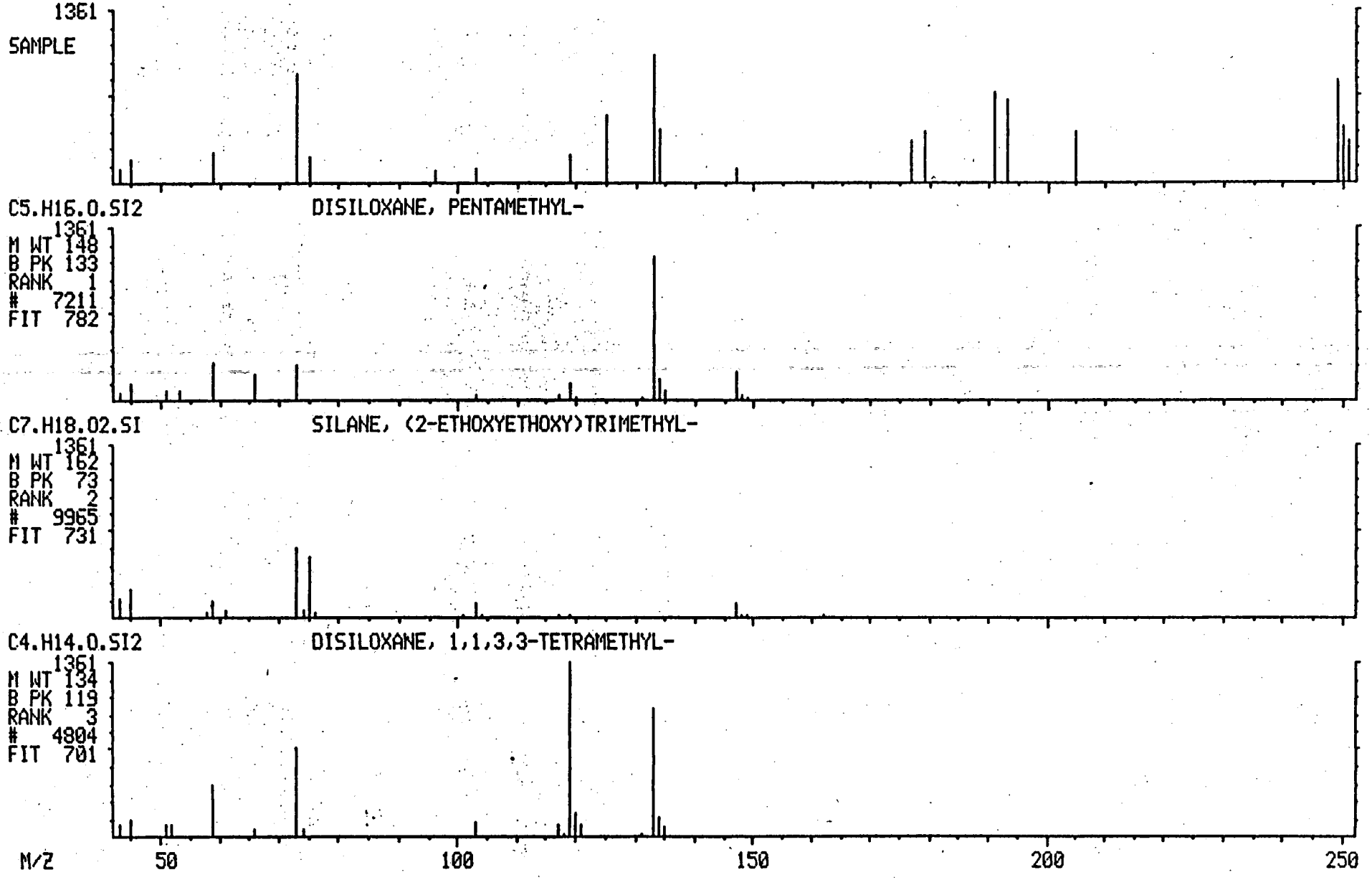


28

MID LIBRARY SEARCH
08/17/87 8:53:00 + 27:17
SAMPLE: 14558-1
CONDS.: 5.1825 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V1R # 868
CALI: 14558V1R # 2

BASE M/Z: 133
RIC: 10991.



MID Library Search Data: 14558V1R # 868 Base m/z: 133
08/17/87 8:53:00 + 27:17 Cali: 14558V1R # 2 RIC: 10991.
Sample: 14558-1
Conds.: 5.1825 G
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	7211	DISILOXANE, PENTAMETHYL-
2	9965	SILANE, (2-ETHOXYETHOXY)TRIMETHYL-
3	4804	DISILOXANE, 1,1,3,3-TETRAMETHYL-
4	12155	DISILOXANE, ETHENYLPENTAMETHYL-
5	12626	HYDRAZINECARBOXAMIDE, 2-(1-PHENYLETHYLIDENE)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C5.H16.O.SI2	148	133	202	782	238
2	C7.H18.O2.SI	162	73	90	731	103
3	C4.H14.O.SI2	134	119	172	701	205
4	C7.H18.O.SI2	174	133	176	682	237
5	C9.H11.O.N3	177	133	153	679	218

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	1438-82-0
2	___	___	___	___	16654-45-8
3	___	___	___	___	3277-26-7
4	___	___	___	___	1438-79-5
5	___	___	___	___	2492-30-0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0811746-R

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-DR

Sample wt/vol: 6.4 (g/mL) G Lab File ID: 14558V2R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 22 Date Analyzed: 08/17/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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	8	X
67-64-1	Acetone	13	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	13	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	13	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
110-75-8	2-Chloroethylvinylether	13	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	13	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
----------	Total Xylenes	8	X

1E

EPA SAMPLE NO. 88

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

0811746-R

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-2R

Sample wt/vol: 6.4 (g/mL) G Lab File ID: 14558V2R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 22 Date Analyzed: 08/17/87

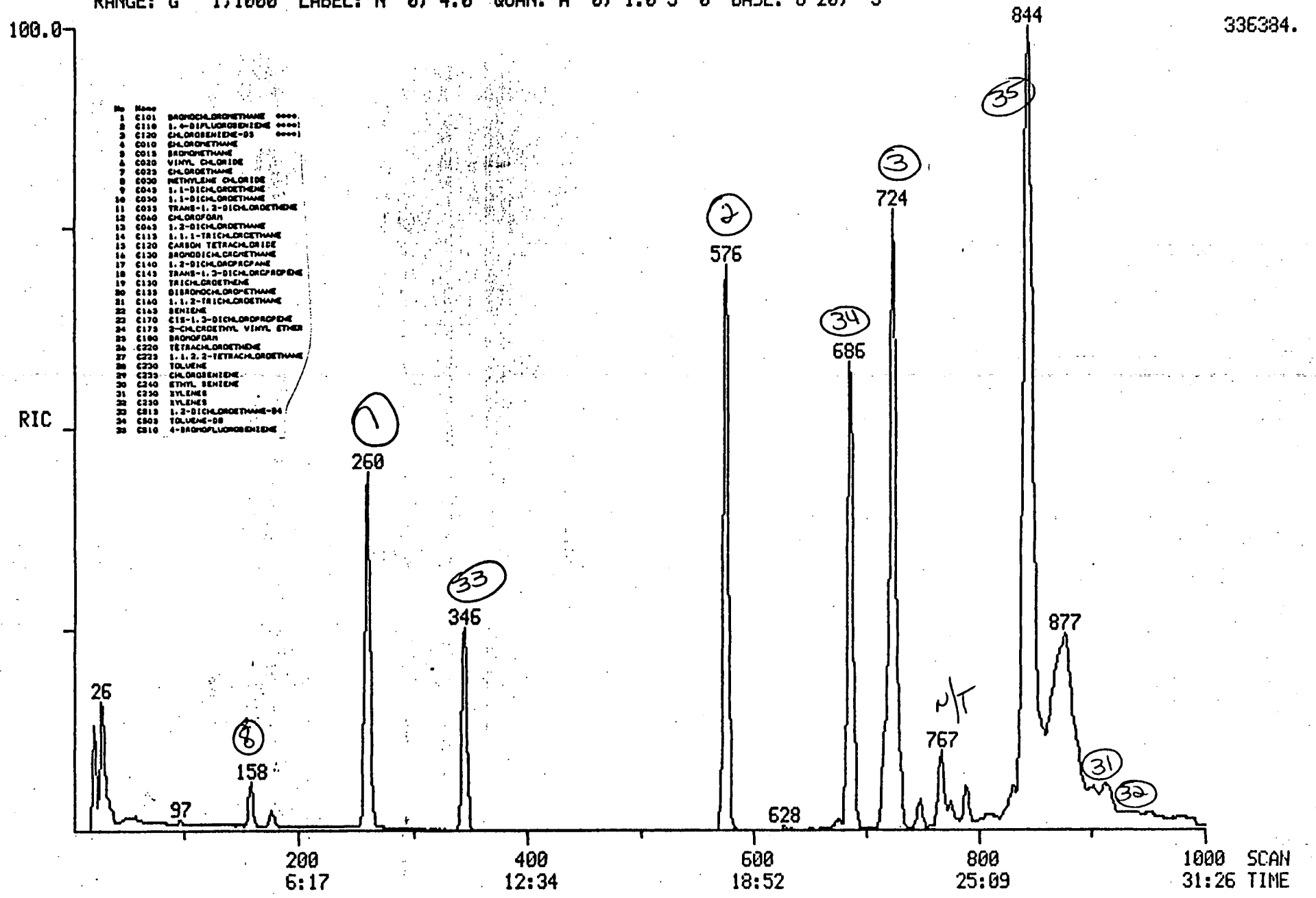
Column (pack/cap) PACKED Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

MIDRIC
08/17/87 9:34:00
SAMPLE: 14558-2
CONDS.: 6.4943 G
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V2R #1 SCANS 1 TO 1000
CALI: 14558V1R #2



Quantitation Report File: 14558V2R

Data: 14558V2R.TI
08/17/87 9:34:00
Sample: 14558-2
Conds.: 6.4943 G
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

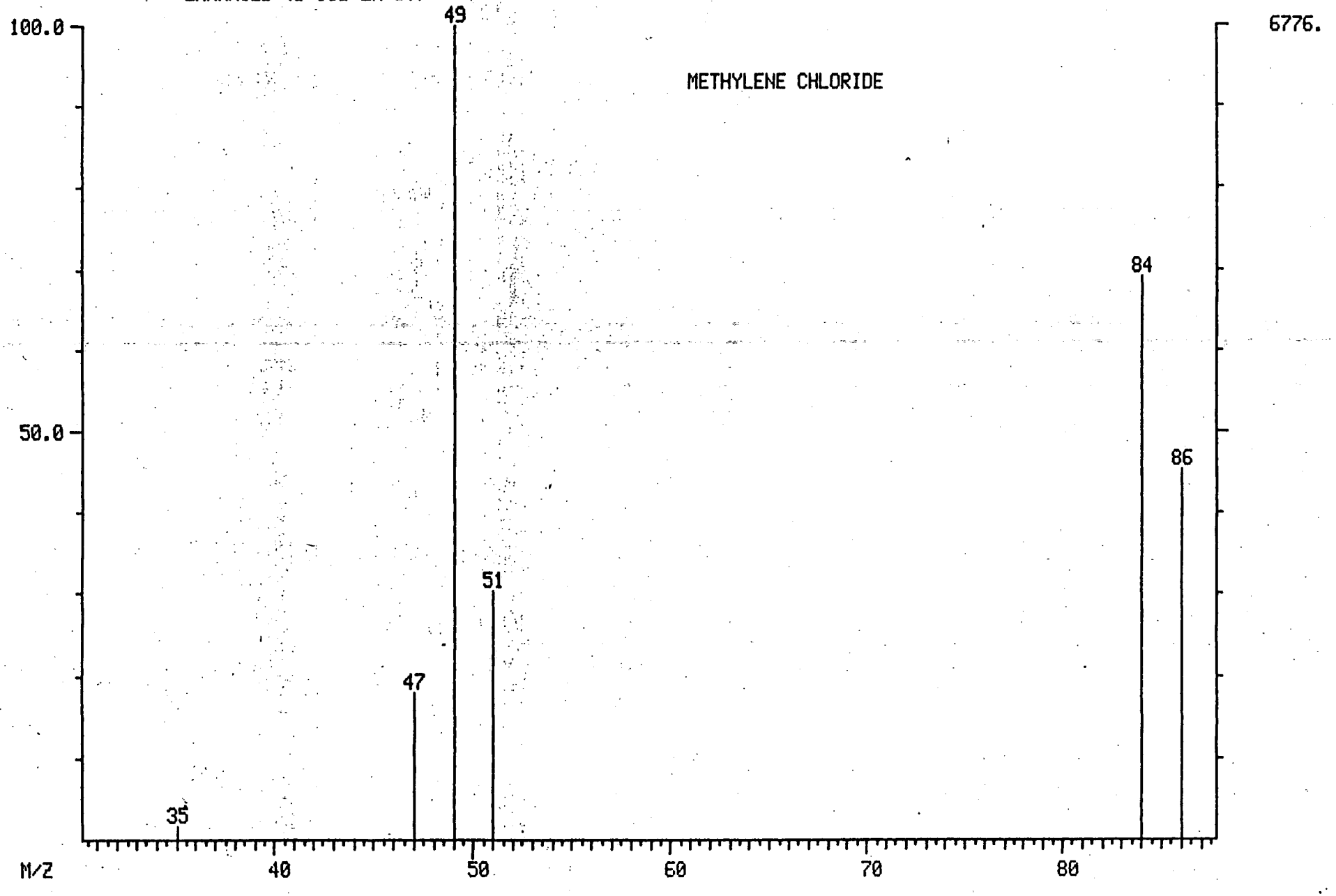
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	128	260	8:10	1	1.000	A BB	118496.	50.000 UG/L	15.92	
2	114	576	18:06	2	1.000	A BB	589767.	50.000 UG/L	15.92	
3	117	724	22:46	3	1.000	A BB	476919.	50.000 UG/L	15.92	
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	84	158	4:58	1	0.608	A BB	22110.	7.777 UG/L	2.48	yes PA
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
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	NOT FOUND									
28	92	692	21:45	3	0.956	A BB	~~5437.~~	~~0.877 UG/L~~	~~0.28~~	no PA
29	112	730	22:57	3	1.008	A BB	~~11289.~~	~~1.305 UG/L~~	~~0.42~~	no PA
30	NOT FOUND									
31	106	880	27:40	3	1.215	A BB	~~22266.~~	5.211 UG/L	1.66	yes PA
32	106	902	28:21	3	1.246	A BB	13970.	3.272 UG/L	1.04	yes PA
33	65	346	10:53	1	1.331	A BB	156412.	45.738 UG/L	14.56	yes PA
34	98	686	21:34	3	0.948	A BB	423846.	50.002 UG/L	15.92	yes PA
35	95	842	26:28	3	1.163	A BB	370928.	49.904 UG/L	15.89	yes PA

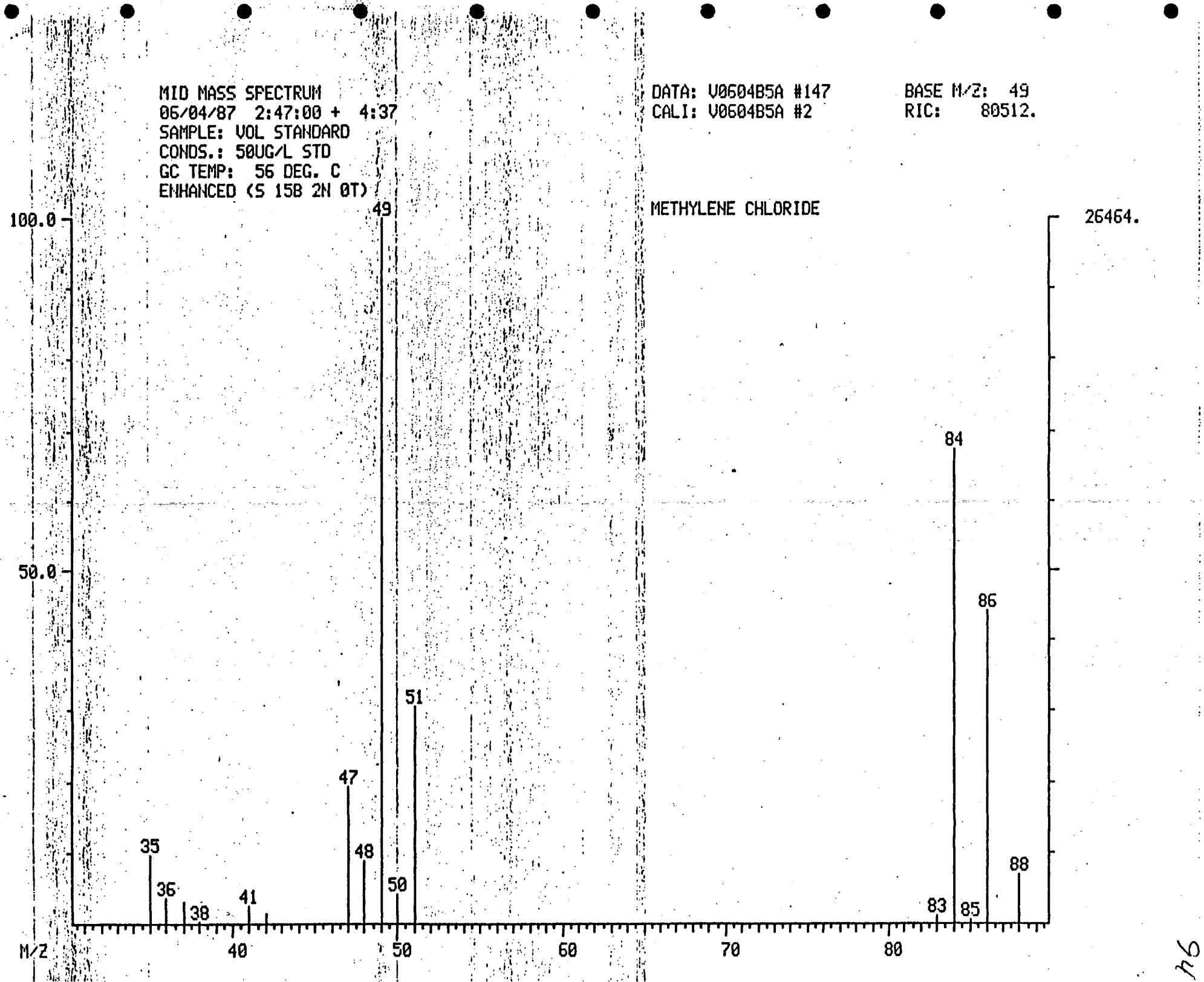
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:09	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:59	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:36	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:27		0.178			50.00		0.614	
5	2:06		0.259			50.00		1.282	
6	2:38		0.324			50.00		1.017	
7	3:18		0.405			50.00		0.665	
8	5:02	0.99	0.618	0.98	7.78	50.00	0.187	1.200	0.16
9	7:38		0.938			50.00		1.083	
10	8:52		1.089			50.00		2.298	
11	9:35		1.178			50.00		1.303	
12	10:13		1.255			50.00		2.969	
13	10:53		1.336			50.00		1.903	
14	12:04		0.671			50.00		0.452	
15	12:25		0.691			50.00		0.303	
16	13:05		0.727			50.00		0.553	
17	14:16		0.794			50.00		0.306	
18	14:33		0.809			50.00		0.555	
19	15:05		0.839			50.00		0.428	
20	15:45		0.876			50.00		0.442	
21	15:51		0.881			50.00		0.317	
22	15:30		0.862			50.00		0.753	
23	15:47		0.878			50.00		0.234	
24	16:47		0.934			50.00		0.147	
25	18:20		1.019			50.00		0.335	
26	20:30		0.907			50.00		0.493	
27	20:32		0.908			50.00		0.626	
28	21:38	1.01	0.957	1.00	0.88	50.00	0.011	0.650	0.02
29	22:44	1.01	1.006	1.00	1.30	50.00	0.024	0.907	0.03
30	24:27		1.082			50.00		0.402	
31	27:27	1.01	1.214	1.00	5.21	100.00	0.023	0.448	0.05
32	28:04	1.01	1.242	1.00	3.27	50.00	0.029	0.448	0.07
33	10:47	1.01	1.324	1.00	45.74	50.00	1.320	1.443	0.91
34	21:26	1.01	0.949	1.00	50.00	50.00	0.889	0.889	1.00
35	26:19	1.01	1.164	1.00	49.90	50.00	0.778	0.779	1.00

MID MASS SPECTRUM
08/17/87 9:34:00 + 4:58
SAMPLE: 14558-2
CONDS.: 6.4943 G
GC TEMP: 60 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V2R #158
CALI: 14558V2R #2

BASE M/Z: 49
RIC: 17920.

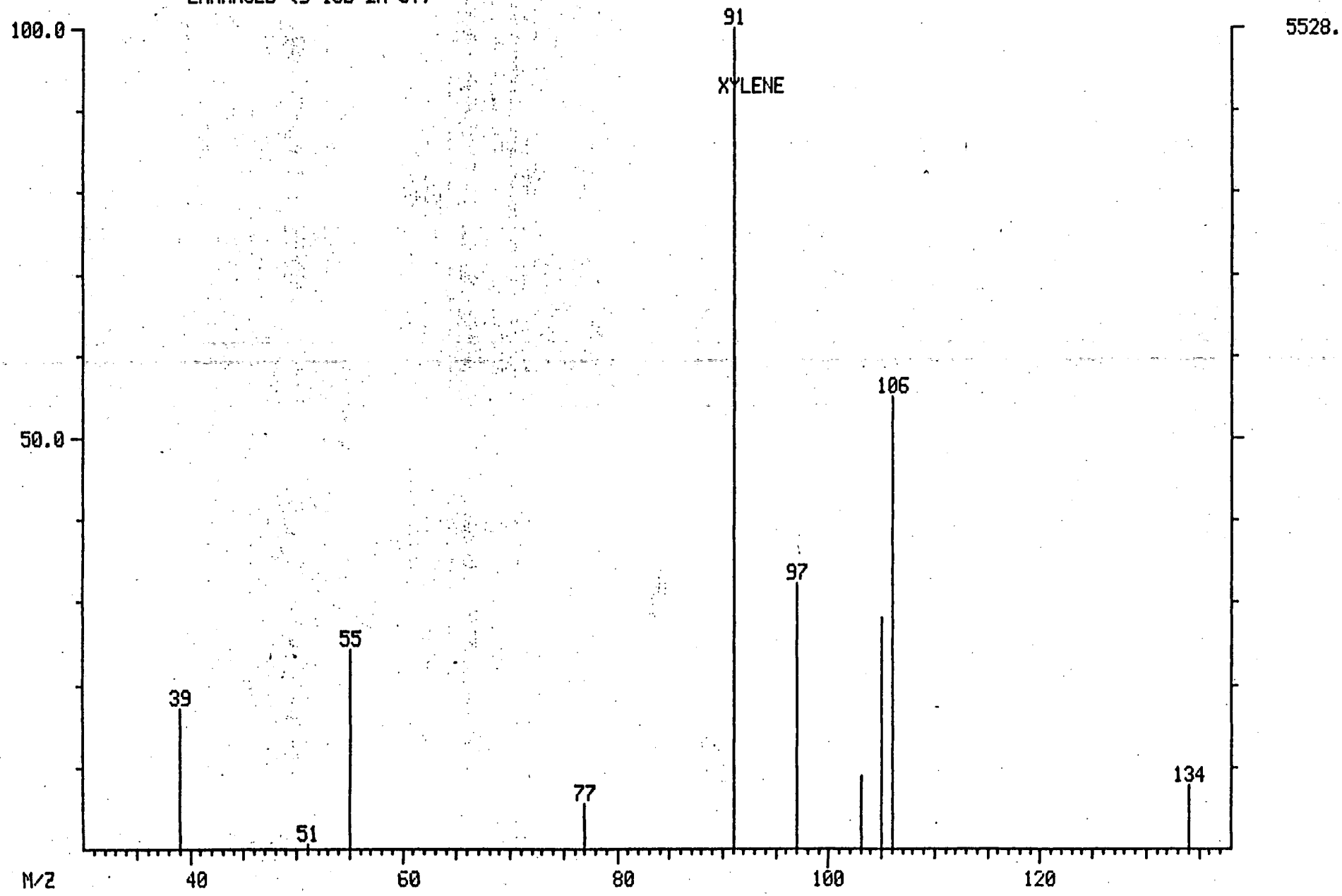



MID MASS SPECTRUM
06/04/87 2:47:00 + 4:37
SAMPLE: VOL STANDARD
CONDS.: 50UG/L STD
GC TEMP: 56 DEG. C
ENHANCED (S 15B 2N 0T)
DATA: V0604B5A #147
CALI: V0604B5A #2
BASE M/Z: 49
RIC: 80512.
METHYLENE CHLORIDE
26464.
100.0
50.0
M/Z
40
50
60
70
80
49
84
86
51
47
35
48
50
88
36
41
38
83
85

MID MASS SPECTRUM
08/17/87 9:34:00 + 27:40
SAMPLE: 14558-2
CONDS.: 6.4943 G
GC TEMP: 218 DEG. C
ENHANCED (S 158 2N 0T)

DATA: 14558V2R #880
CALI: 14558V2R #2

BASE M/Z: 91
RIC: 15440.

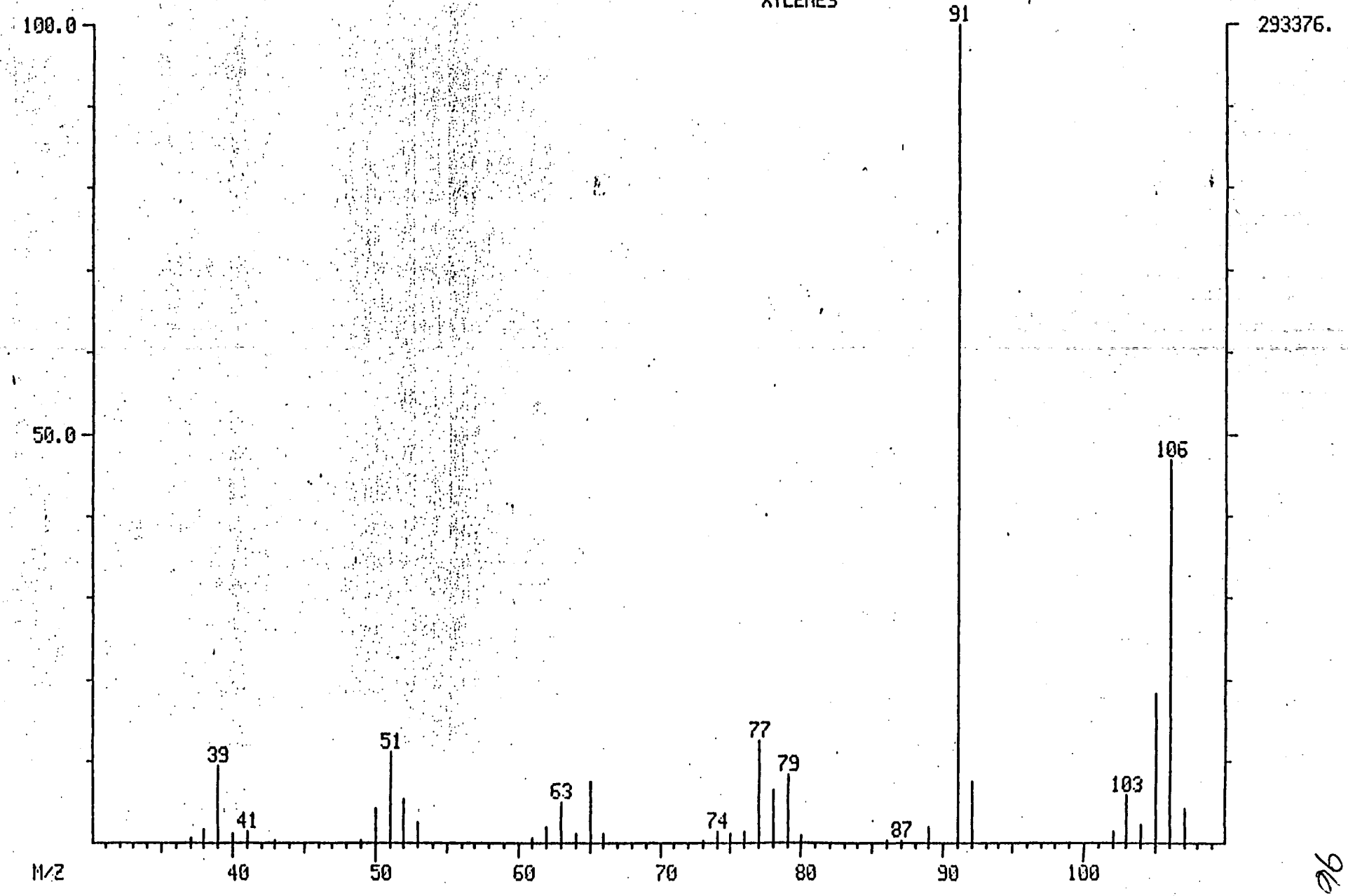


MID MASS SPECTRUM
02/21/87 11:08:00 + 27:26
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

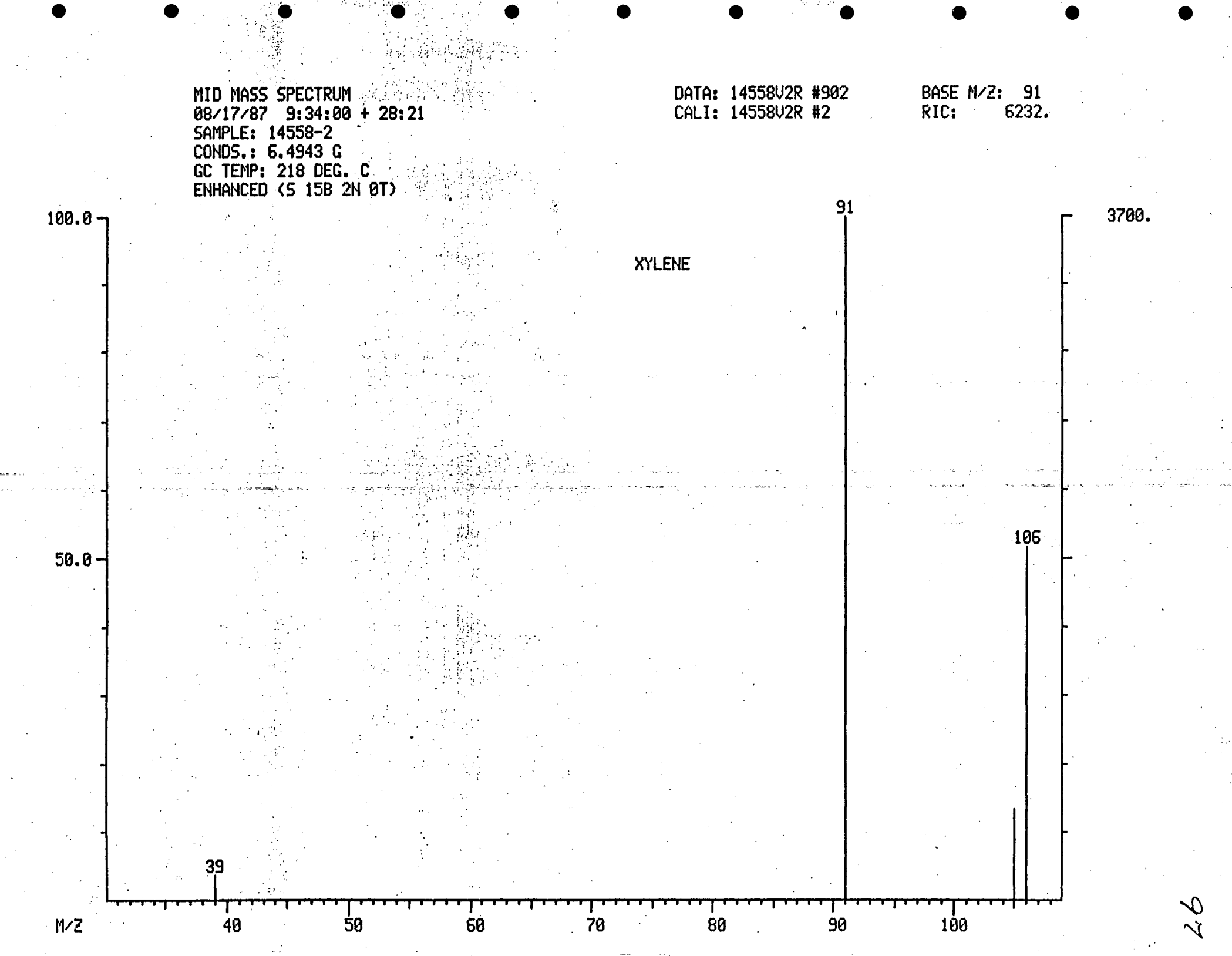
DATA: VB0221A30 #874
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 808960.

XYLENES



96

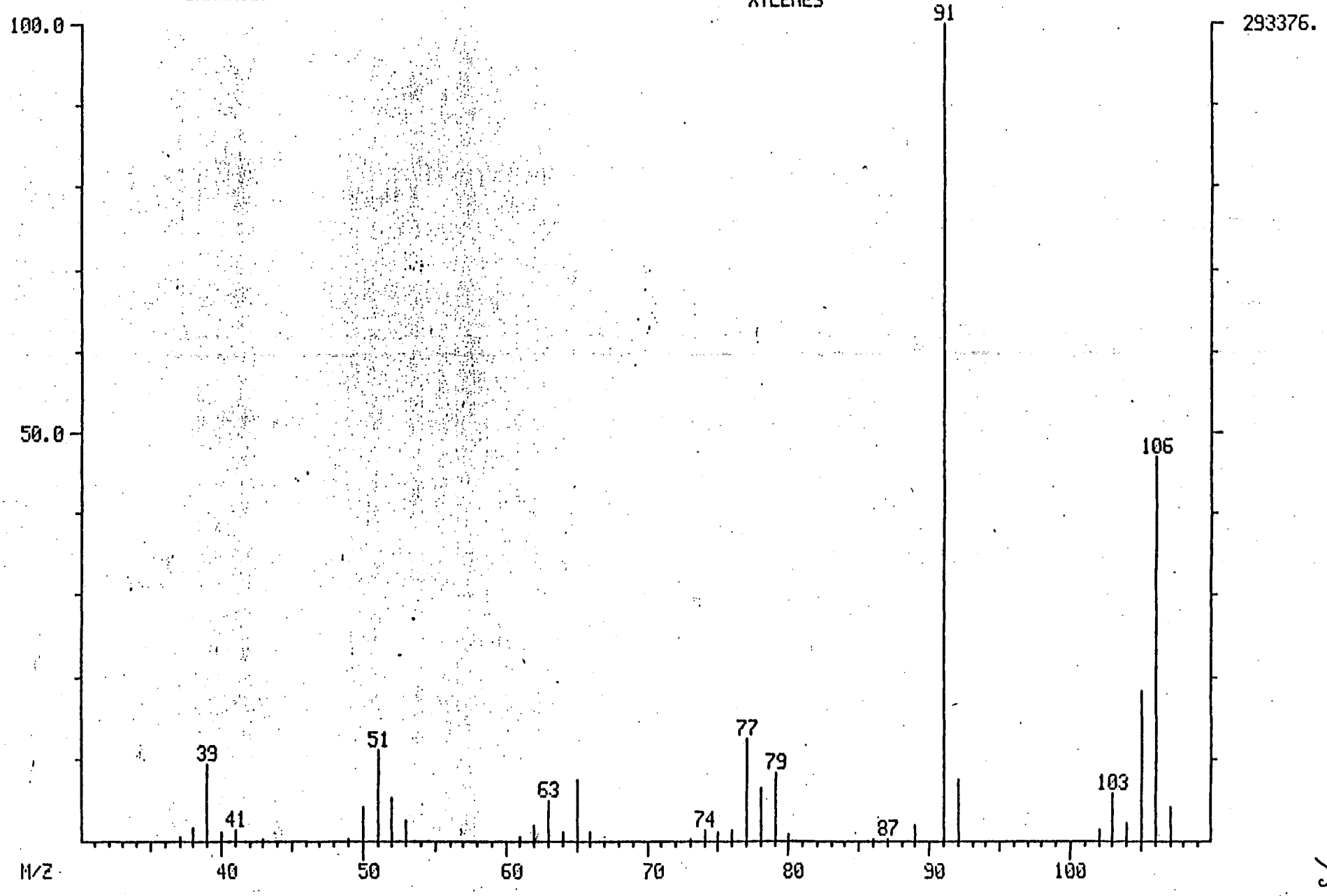

MID MASS SPECTRUM
08/17/87 9:34:00 + 28:21
SAMPLE: 14558-2
CONDS.: 6.4943 G
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)
DATA: 14558V2R #902
CALI: 14558V2R #2
BASE M/Z: 91
RIC: 6232.
XYLENE
100.0
50.0
3700.
91
106
39
M/Z
40
50
60
70
80
90
100

MID MASS SPECTRUM
02/21/87 11:08:00 + 27:26
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #874
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 808960.

XYLENES

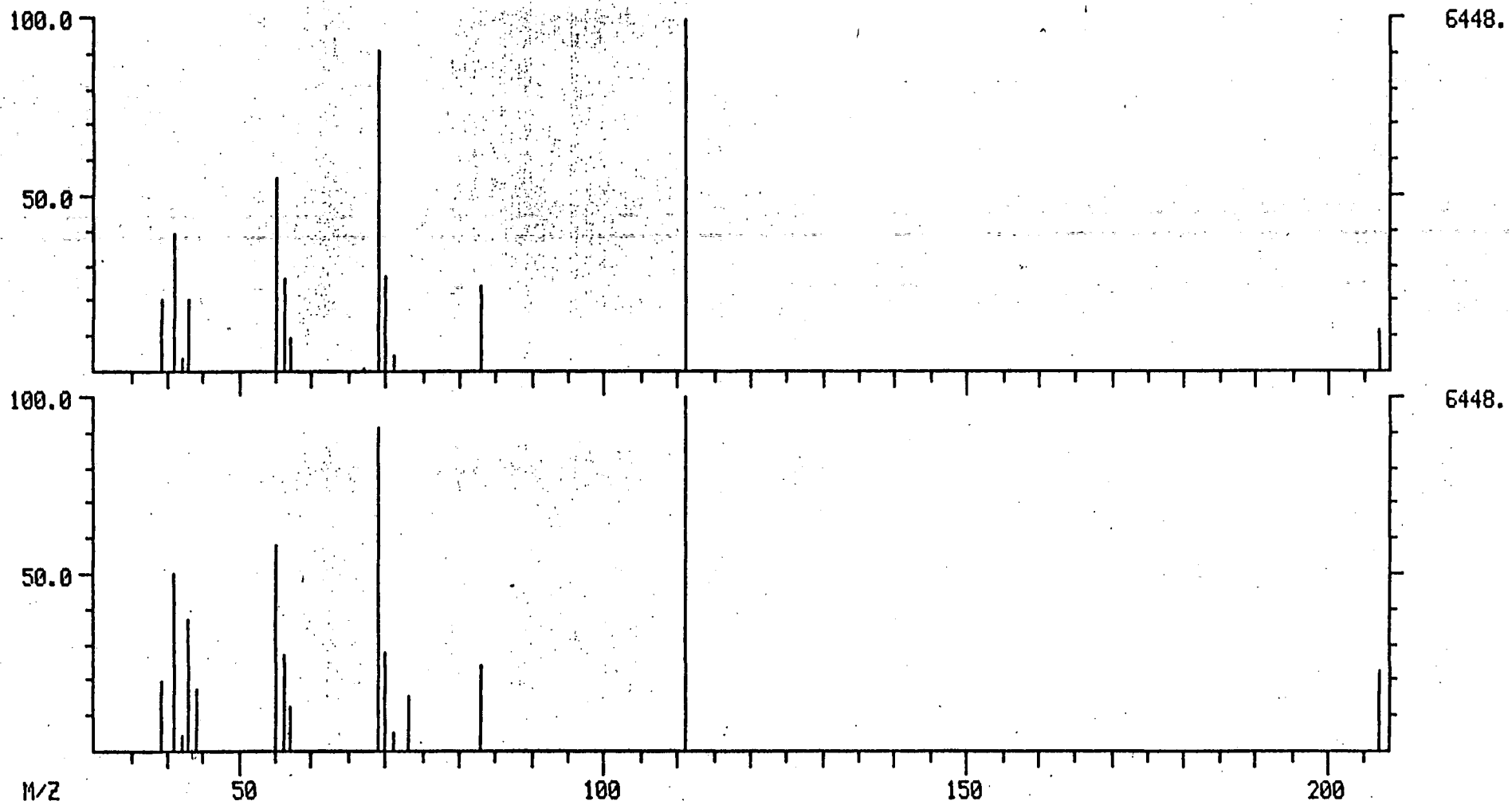


86

MID DUAL MASS SPECTRUM
08/17/87 9:34:00 + 24:07
SAMPLE: 14558-2
CONDS.: 6.4943 G
GC TEMP: 213 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V2R #767
CALI: 14558V2R #2

BASE M/Z: 111/ 111
RIC: 27775./ 32895.

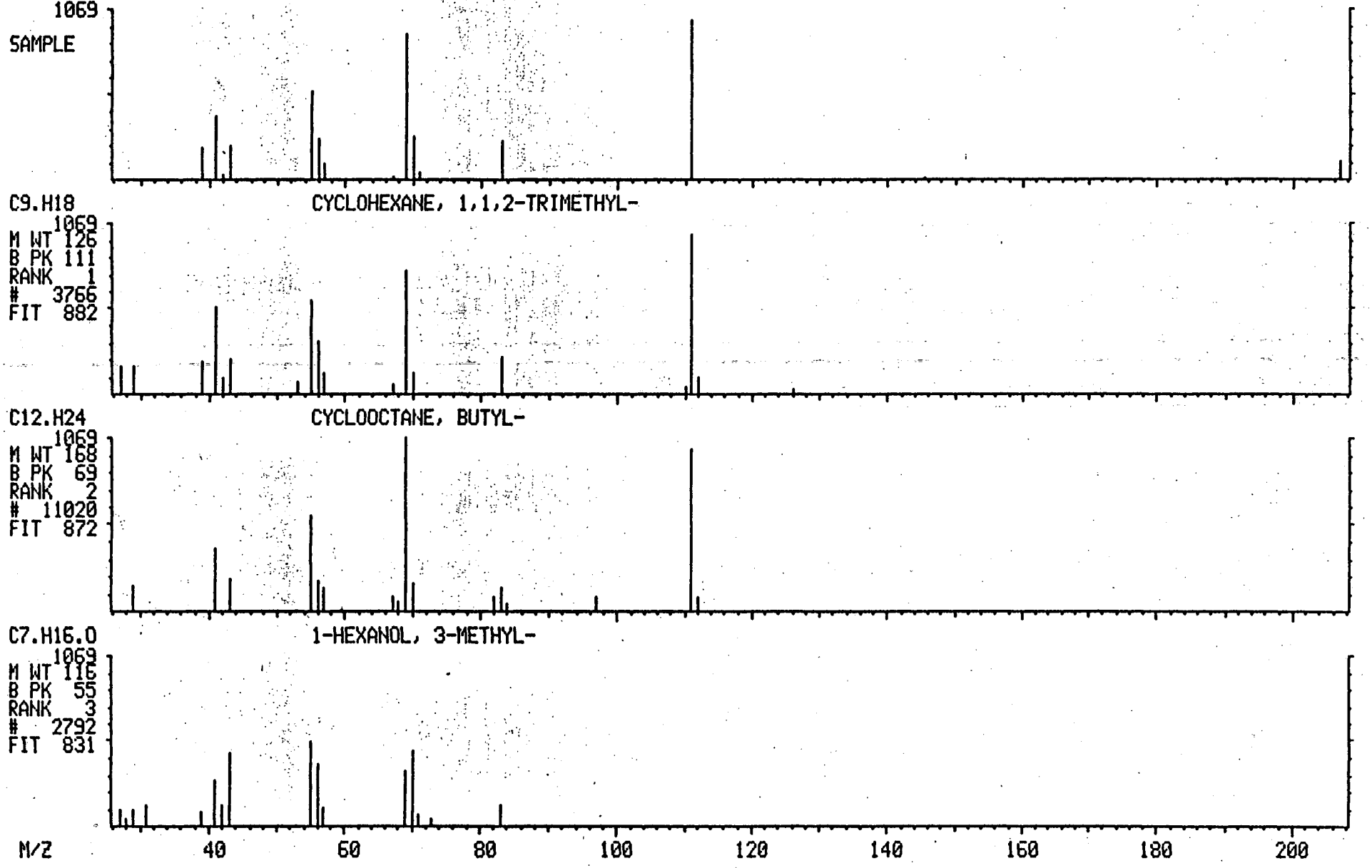


66

MID LIBRARY SEARCH
08/17/87 9:34:00 + 24:07
SAMPLE: 14558-2
CONDS.: 6.4943 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V2R # 767
CALI: 14558V2R # 2

BASE M/Z: 111
RIC: 27775.



MID Library Search Data: 14558V2R # 767 Base m/z: 111
08/17/87 9:34:00 + 24:07 Cali: 14558V2R # 2 RIC: 27775.
Sample: 14558-2
Conds.: 6.4943 G
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	3766	CYCLOHEXANE, 1,1,2-TRIMETHYL-
2	11020	CYCLOOCTANE, BUTYL-
3	2792	1-HEXANOL, 3-METHYL-
4	2779	1-HEXANOL, 5-METHYL-
5	1153	CYCLOPENTANE, 1,1-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	111	808	882	900
2	C12.H24	168	69	774	872	871
3	C7.H16.O	116	55	485	831	527
4	C7.H16.O	116	70	476	815	528
5	C7.H14	98	56	468	814	520

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	7094-26-0
2	___	___	___	___	16538-93-5
3	___	___	___	___	13231-81-7
4	___	___	___	___	627-98-5
5	___	___	___	___	1638-26-2

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 182

0811747-R

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14552 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14552-3R

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 14552V3R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 28 Date Analyzed: 08/17/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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	10	X
67-64-1	Acetone	14	U
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	14	U
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
110-75-8	2-Chloroethylvinylether	14	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	14	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
----------	Total Xylenes	7	U

1E

EPA SAMPLE NO. 105

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

	0811747-R

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-3R

Sample wt/vol: 5.1 (g/mL) G Lab File ID: 14558V3R

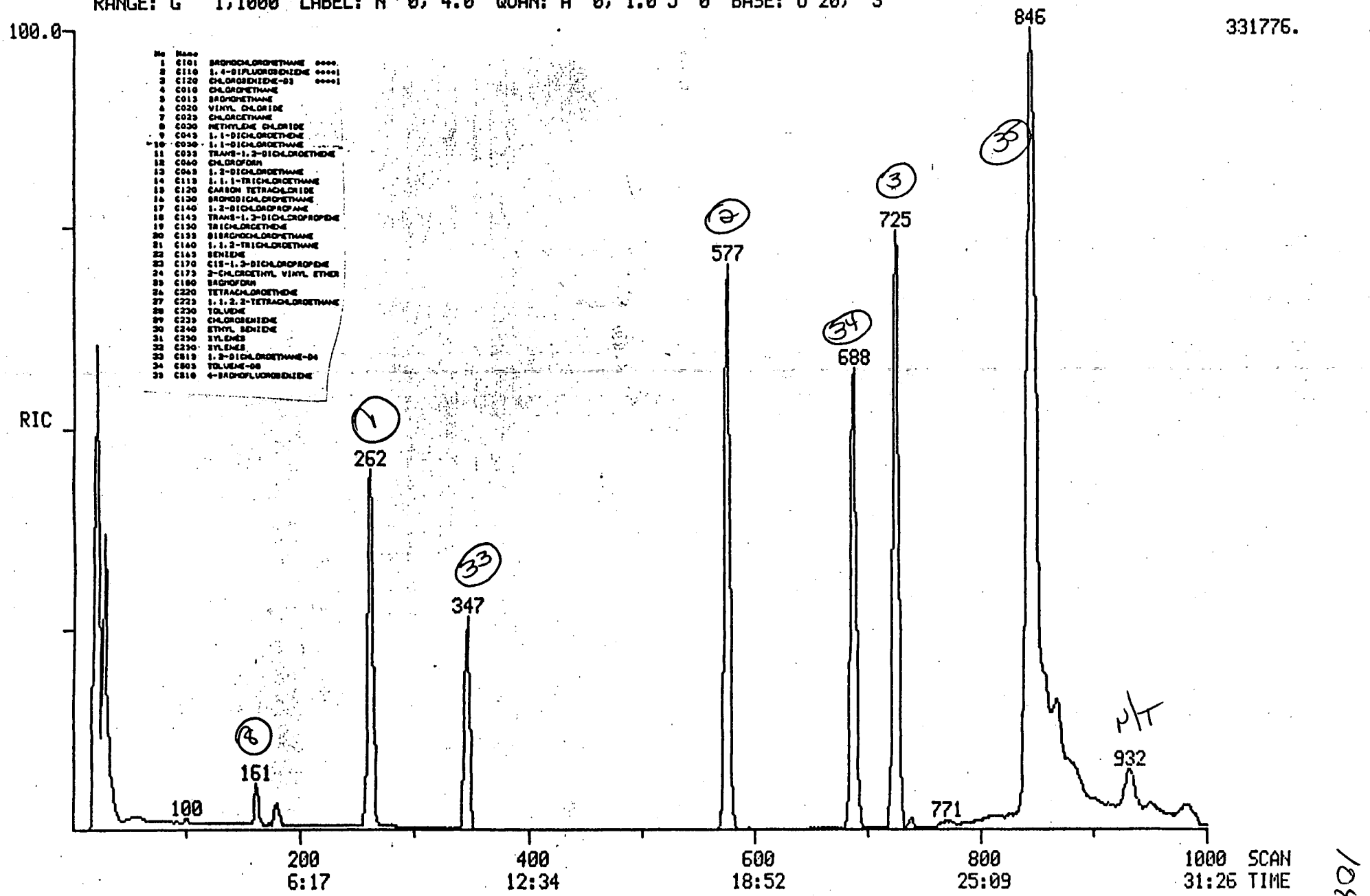
Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 28 Date Analyzed: 08/17/87

Column (pack/cap) PACKED Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q


MIDRIC
08/17/87 10:15:00
SAMPLE: 14558-3
CONDS.: 5.0977 G
DATA: 14558V3R #1
CALI: 14558V2R #2
SCANS 1 TO 1000
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
100.0
331776.
RIC
846
725
577
688
262
347
161
100
771
932
200
6:17
400
12:34
600
18:52
800
25:09
1000 SCAN
31:26 TIME

Quantitation Report File: 14558V3R

Data: 14558V3R.TI
08/17/87 10:15:00
Sample: 14558-3
Conds.: 5.0977 G
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

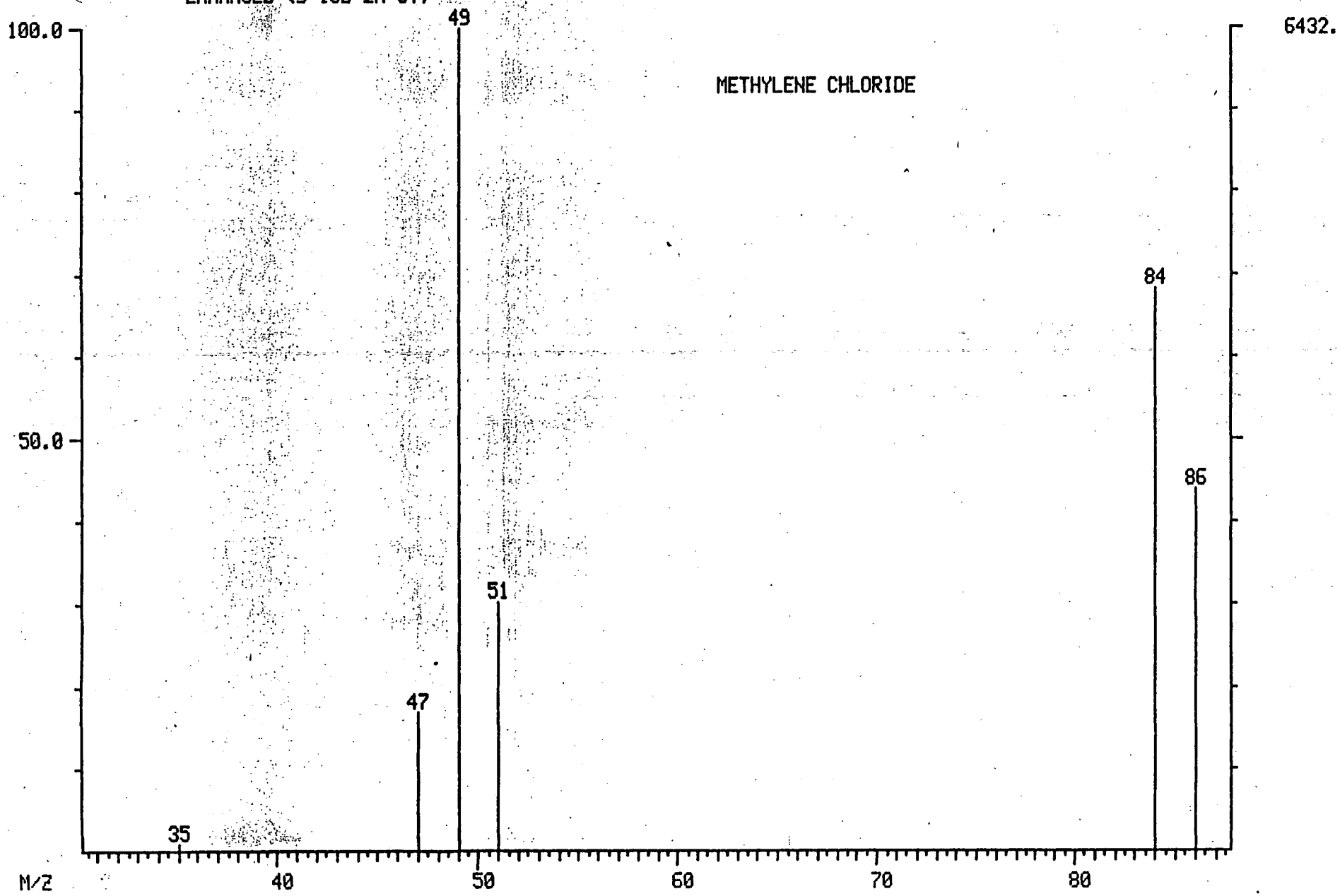
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	128	262	8:14	1	1.000	A BB	117630.	50.000	UG/L	16.30	
2	114	577	18:08	2	1.000	A BB	586020.	50.000	UG/L	16.30	
3	117	725	22:47	3	1.000	A BB	462088.	50.000	UG/L	16.30	
4	NOT FOUND										
5	NOT FOUND										
6	NOT FOUND										
7	NOT FOUND										
8	84	161	5:04	1	0.615	A BB	20648.	7.316	UG/L	2.39	Yes PA
9	NOT FOUND										
10	NOT FOUND										
11	NOT FOUND										
12	NOT FOUND										
13	NOT FOUND										
14	NOT FOUND										
15	NOT FOUND										
16	NOT FOUND										
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	NOT FOUND										
28	92	693	21:47	3	0.956	A BB	~~3397.~~	~~0.565~~	~~UG/L~~	~~0.18~~	
29	NOT FOUND										
30	NOT FOUND										
31	NOT FOUND										
32	NOT FOUND										
33	65	347	10:54	1	1.324	A BB	158762.	46.766	UG/L	15.25	Yes PA
34	98	688	21:38	3	0.949	A BB	419220.	51.043	UG/L	16.64	Yes PA
35	95	843	26:30	3	1.163	A BB	367307.	51.003	UG/L	16.63	Yes PA

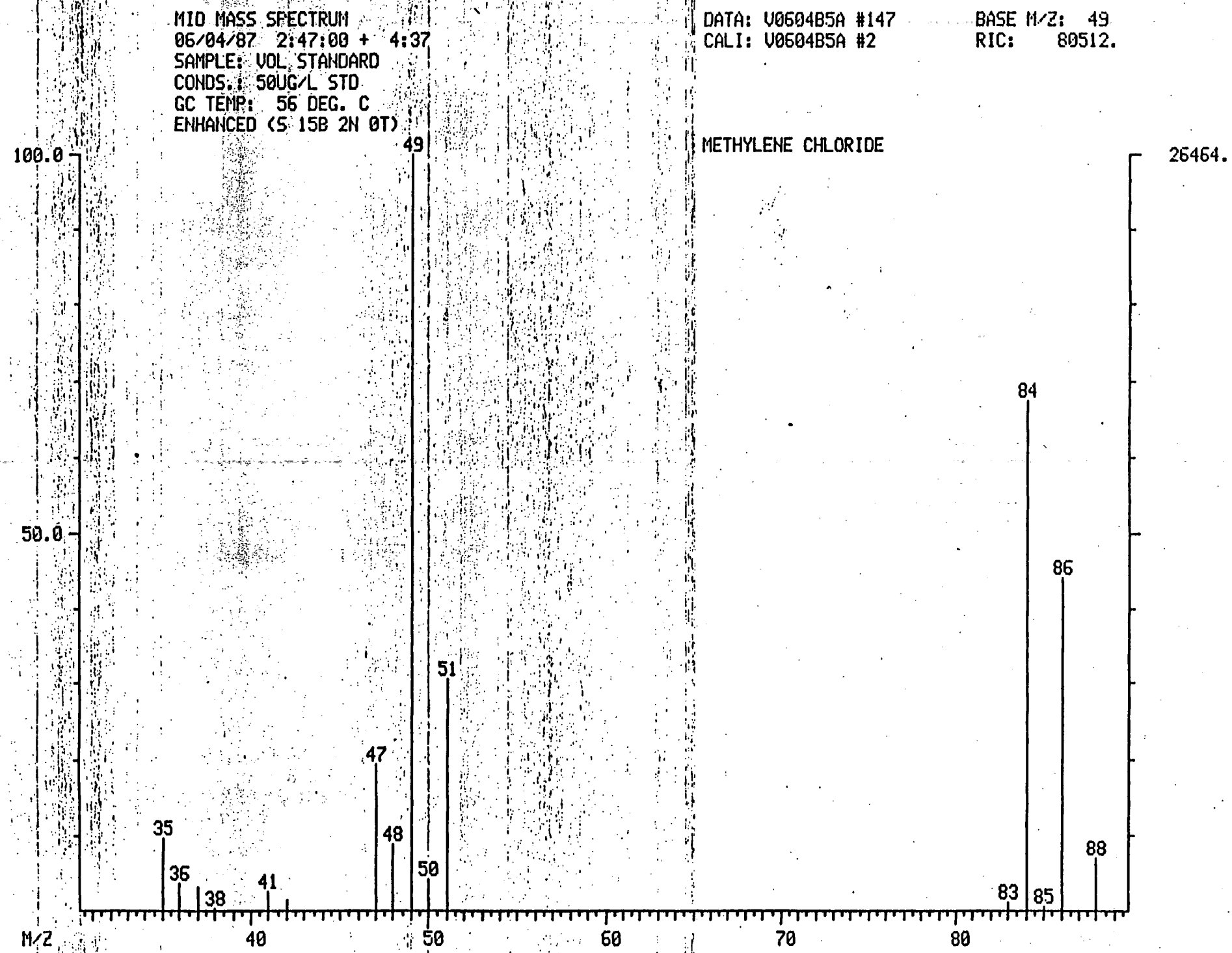
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:09	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:59	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:36	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:27		0.178			50.00		0.614	
5	2:06		0.259			50.00		1.282	
6	2:38		0.324			50.00		1.017	
7	3:18		0.405			50.00		0.665	
8	5:02	1.01	0.618	0.99	7.32	50.00	0.176	1.200	0.15
9	7:38		0.938			50.00		1.083	
10	8:52		1.089			50.00		2.298	
11	9:35		1.178			50.00		1.303	
12	10:13		1.255			50.00		2.969	
13	10:53		1.336			50.00		1.903	
14	12:04		0.671			50.00		0.452	
15	12:25		0.691			50.00		0.303	
16	13:05		0.727			50.00		0.553	
17	14:16		0.794			50.00		0.306	
18	14:33		0.809			50.00		0.555	
19	15:05		0.839			50.00		0.428	
20	15:45		0.876			50.00		0.442	
21	15:51		0.881			50.00		0.317	
22	15:30		0.862			50.00		0.753	
23	15:47		0.878			50.00		0.234	
24	16:47		0.934			50.00		0.147	
25	18:20		1.019			50.00		0.335	
26	20:30		0.907			50.00		0.493	
27	20:32		0.908			50.00		0.626	
28	21:38	1.01	0.957	1.00	0.57	50.00	0.007	0.650	0.01
29	22:44		1.006			50.00		0.907	
30	24:27		1.082			50.00		0.402	
31	27:27		1.214			100.00		0.448	
32	28:04		1.242			50.00		0.448	
33	10:47	1.01	1.324	1.00	46.77	50.00	1.350	1.443	0.94
34	21:26	1.01	0.949	1.00	51.04	50.00	0.907	0.889	1.02
35	26:19	1.01	1.164	1.00	51.00	50.00	0.795	0.779	1.02

MID MASS SPECTRUM
08/17/87 10:15:00 + 5:04
SAMPLE: 14558-3
CONDS.: 5.0977 G
GC TEMP: 60 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V3R #161
CALI: 14558V3R #2

BASE M/Z: 49
RIC: 16768.



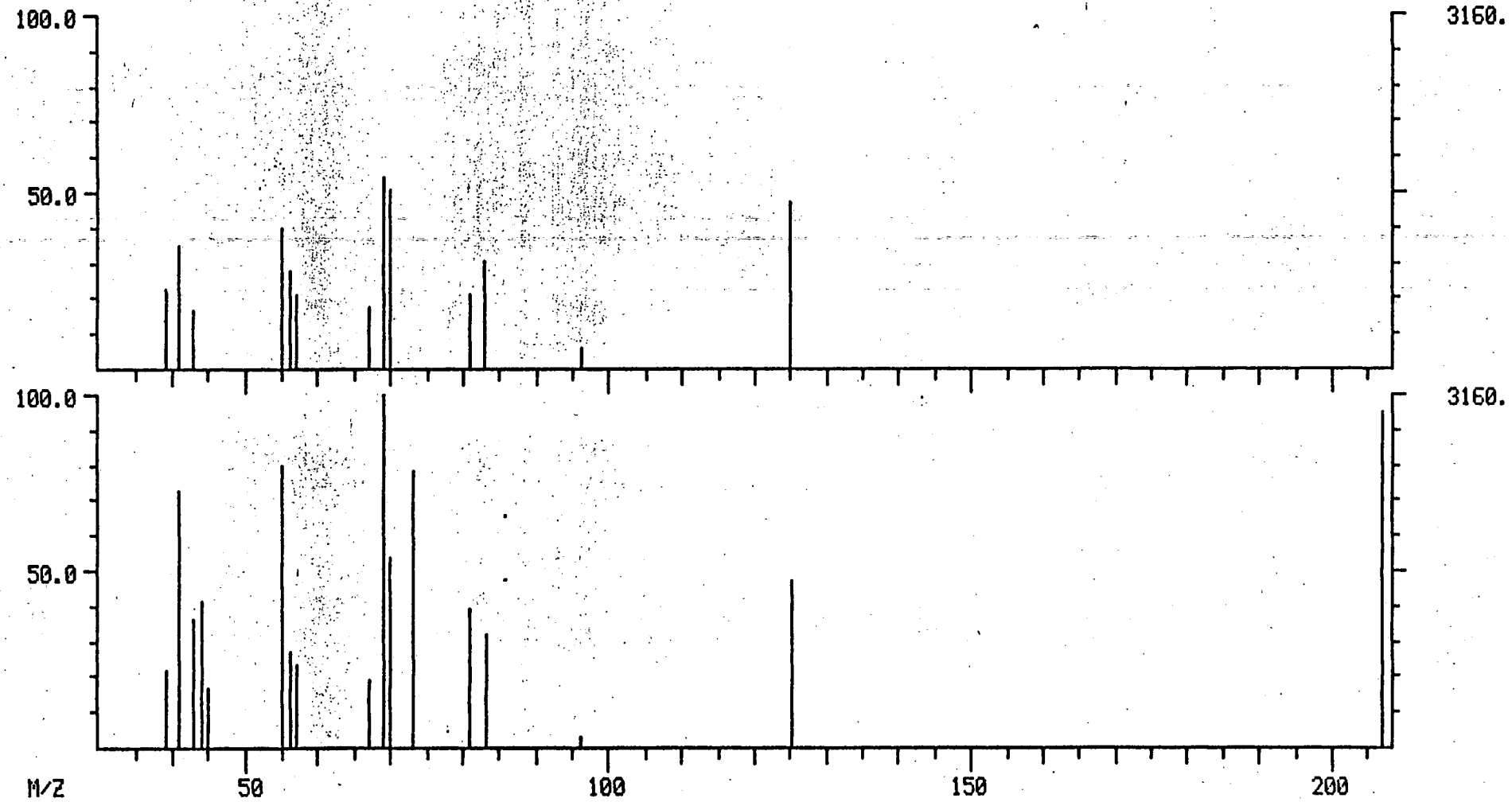

MID MASS SPECTRUM
06/04/87 2:47:00 + 4:37
SAMPLE: VOL STANDARD
CONDS.: 50UG/L STD
GC TEMP: 56 DEG. C
ENHANCED (S 15B 2N 0T)
DATA: V0604B5A #147
CALI: V0604B5A #2
BASE M/Z: 49
RIC: 80512.
METHYLENE CHLORIDE
100.0
50.0
26464.
49
84
86
51
47
35
48
36
50
41
38
83
85
88
M/Z
40
50
60
70
80

109

MID DUAL MASS SPECTRUM
08/17/87 10:15:00 + 29:18
SAMPLE: 14558-3
CONDS.: 5.0977 G
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V3R #932
CALI: 14558V3R #2

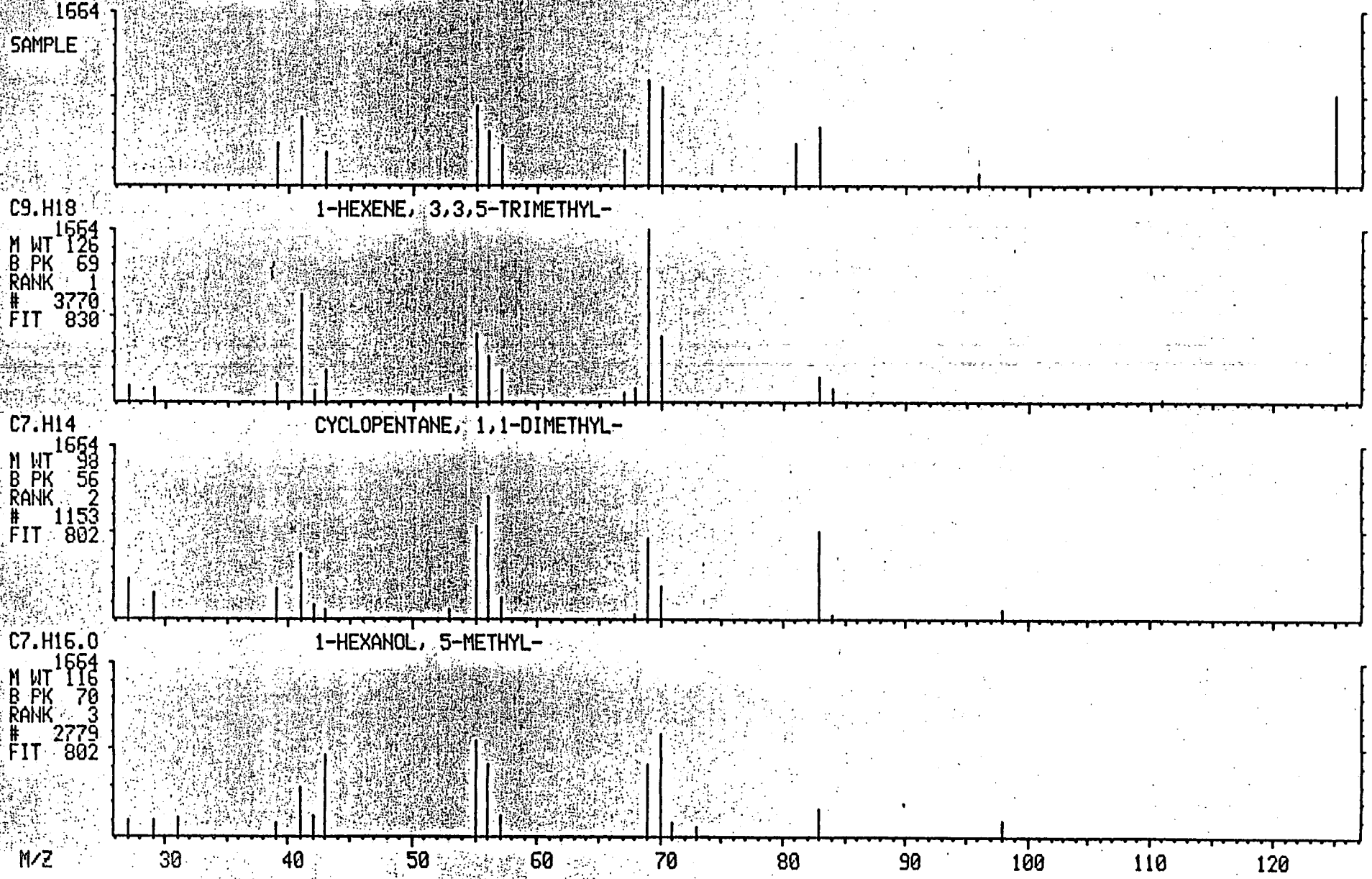
BASE M/Z: 69/ 69
RIC: 12303./ 24831.



MID LIBRARY SEARCH
08/17/87 10:15:00 + 29:18
SAMPLE: 14558-3
CONDS.: 5.0977 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V3R # 932
CALI: 14558V3R # 2

BASE M/Z: 69
RIC: 12319.



MID Library Search Data: 14558V3R # 932 Base m/z: 69
08/17/87 10:15:00 + 29:18 Cali: 14558V3R # 2 RIC: 12319.
Sample: 14558-3
Conds.: 5.0977 G
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	3770	1-HEXENE, 3,3,5-TRIMETHYL-
2	1153	CYCLOPENTANE, 1,1-DIMETHYL-
3	2779	1-HEXANOL, 5-METHYL-
4	11056	4-NONENE, 2,3,3-TRIMETHYL-, (Z)-
5	11073	3-UNDECENE, 9-METHYL-, (Z)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	69	579	830	654
2	C7.H14	98	56	525	802	600
3	C7.H16.O	116	70	525	802	622
4	C12.H24	168	69	722	787	827
5	C12.H24	168	70	514	771	644

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	13427-43-5
2	———	———	———	———	1638-26-2
3	———	———	———	———	627-98-5
4	———	———	———	———	63830-68-2
5	———	———	———	———	74630-50-5

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0811748-P2

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-4M2

Sample wt/vol: (g/mL) G Lab File ID: 14558V4M2

Level: (low/med) MED Date Received: 08/11/87

% Moisture: not dec. Date Analyzed: 08/18/87

Column: (pack/cap) PACKED Dilution Factor: 0.769

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	430	U
74-83-9	Bromomethane	430	U
75-01-4	Vinyl Chloride	430	U
75-00-3	Chloroethane	430	U
75-09-2	Methylene Chloride	430	U
67-64-1	Acetone	430	U
75-15-0	Carbon Disulfide	430	U
75-35-4	1,1-Dichloroethene	430	U
75-34-3	1,1-Dichloroethane	430	U
540-59-0	1,2-Dichloroethene (total)	430	U
67-66-3	Chloroform	430	U
107-06-2	1,2-Dichloroethane	430	U
78-93-3	2-Butanone	430	U
71-55-6	1,1,1-Trichloroethane	430	U
56-23-5	Carbon Tetrachloride	430	U
108-05-4	Vinyl Acetate	430	U
75-27-4	Bromodichloromethane	430	U
78-87-5	1,2-Dichloropropane	430	U
10061-01-5	cis-1,3-Dichloropropene	430	U
79-01-6	Trichloroethene	430	U
124-48-1	Dibromochloromethane	430	U
79-00-5	1,1,2-Trichloroethane	430	U
71-43-2	Benzene	430	U
10061-02-6	Trans-1,3-Dichloropropene	430	U
110-75-8	2-Chloroethylvinylether	430	U
75-25-2	Bromoform	430	U
108-10-1	4-Methyl-2-Pentanone	430	U
591-78-6	2-Hexanone	430	U
127-18-4	Tetrachloroethene	430	U
79-34-5	1,1,2,2-Tetrachloroethane	430	U
108-88-3	Toluene	430	U
108-90-7	Chlorobenzene	430	U
100-41-4	Ethylbenzene	430	U
100-42-5	Styrene	430	U
	Total Xylenes	43	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 0811748-R2

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-4R2

Sample wt/vol: _____ (g/mL) G Lab File ID: 14558V4R2

Level: (low/med) MED Date Received: 08/11/87

% Moisture: not dec. _____ Date Analyzed: 08/18/87

Column (pack/cap) PACKED Dilution Factor: 0.769

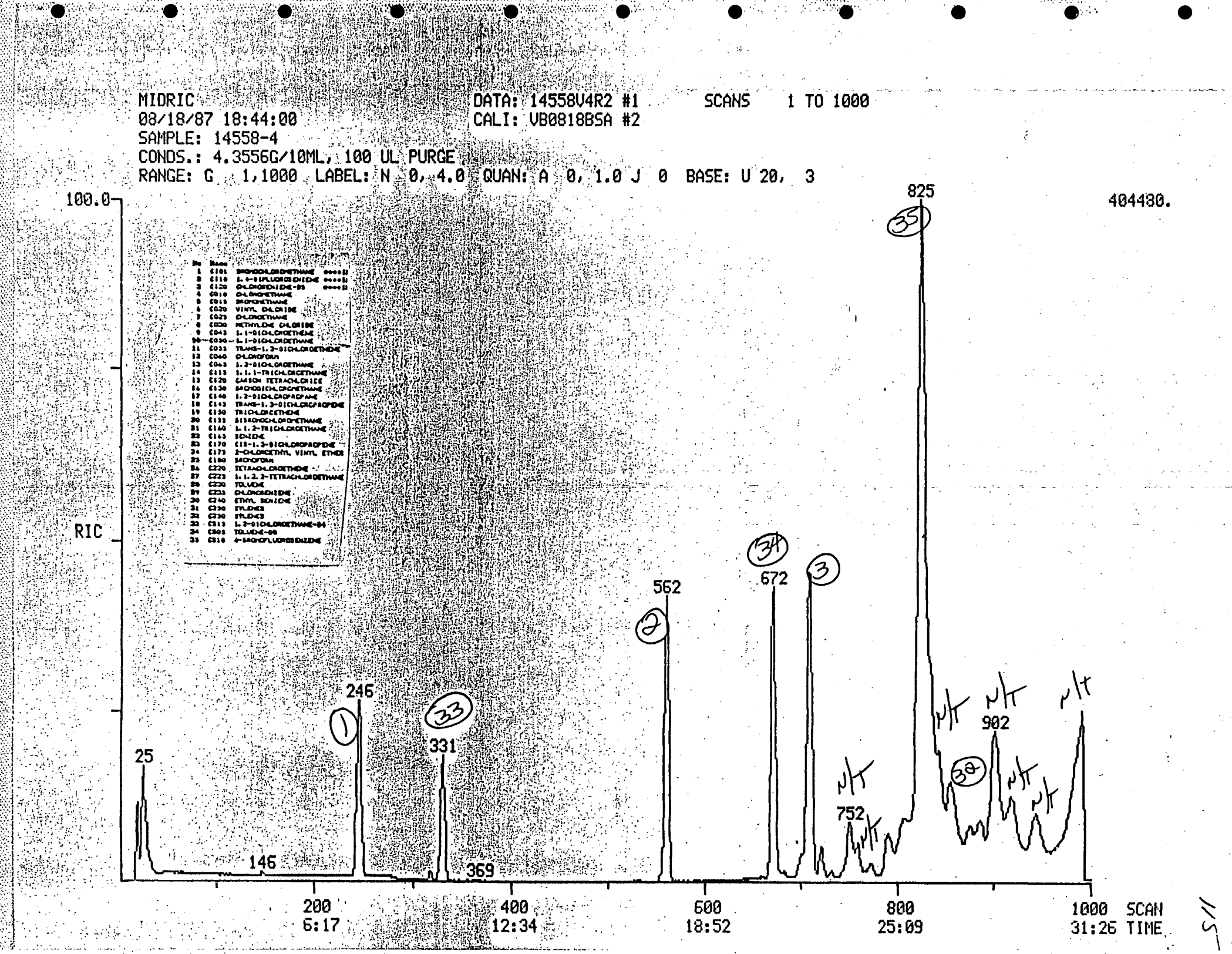
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

MIDRIC
08/18/87 18:44:00
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V4R2 #1
CALI: VB0818BSA #2

SCANS 1 TO 1000



Quantitation Report File: 14558V4R2

Data: 14558V4R2.TI
08/18/87 18:44:00
Sample: 14558-4
Conds.: 4.3556G/10ML, 100 UL PURGE
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	128	245	7:42	1	1.000	A BB	81296.	50.000 UG/L	16.55	
2	114	561	17:38	2	1.000	A BB	416416.	50.000 UG/L	16.55	
3	117	709	22:17	3	1.000	A BB	330150.	50.000 UG/L	16.55	
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	84	146	4:35	1	0.596	A BB	~~792.~~	~~0.409 UG/L~~	~~0.14~~	~~No~~ PA
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
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	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	106	877	27:34	3	1.237	A BB	1091.	0.288 UG/L	0.10	Yes PA
33	65	331	10:24	1	1.351	A BB	137976.	48.532 UG/L	16.06	Yes PA
34	98	672	21:07	3	0.948	A BB	368348.	49.694 UG/L	16.45	Yes PA
35	95	824	25:54	3	1.162	A BB	326401.	53.211 UG/L	17.61	Yes PA

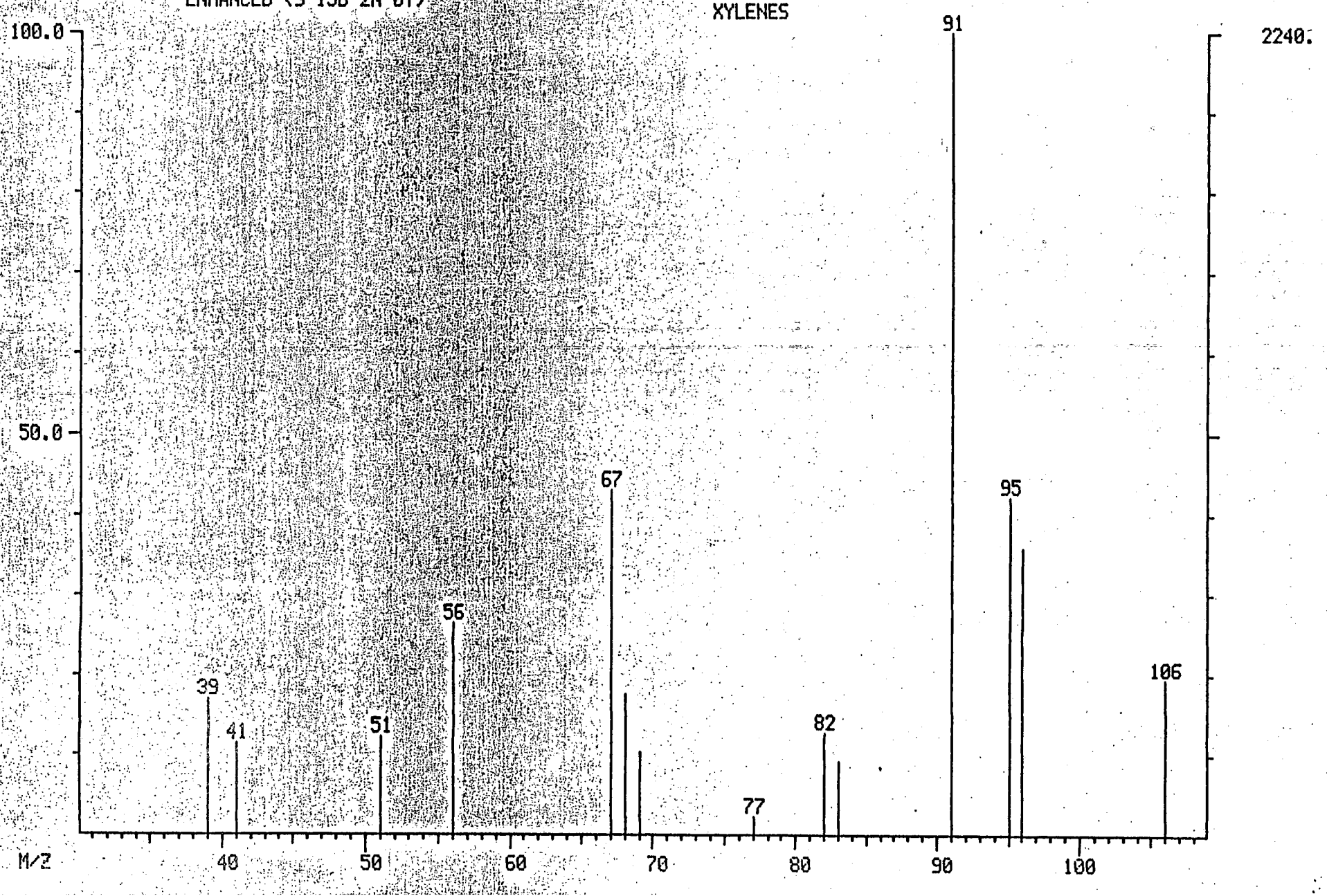
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:19	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19		0.171			50.00		0.658	
5	1:53		0.245			50.00		1.406	
6	2:20		0.302			50.00		1.312	
7	2:52		0.371			50.00		0.813	
8	4:33	1.01	0.592	1.01	0.41	50.00	0.010	1.190	0.01
9	7:12		0.935			50.00		1.142	
10	8:27		1.098			50.00		2.324	
11	9:13		1.196			50.00		1.243	
12	9:52		1.282			50.00		3.003	
13	10:34		1.371			50.00		2.029	
14	11:44		0.663			50.00		0.449	
15	12:06		0.684			50.00		0.289	
16	12:46		0.721			50.00		0.513	
17	13:57		0.789			50.00		0.319	
18	14:16		0.806			50.00		0.564	
19	14:48		0.837			50.00		0.434	
20	15:30		0.876			50.00		0.385	
21	15:34		0.879			50.00		0.325	
22	15:13		0.860			50.00		0.776	
23	15:32		0.877			50.00		0.244	
24	16:32		0.934			50.00		0.202	
25	18:03		1.020			50.00		0.288	
26	20:13		0.906			50.00		0.505	
27	20:15		0.907			50.00		0.756	
28	21:19		0.955			50.00		0.710	
29	22:27		1.006			50.00		0.974	
30	24:07		1.080			50.00		0.436	
31	27:36		1.237			150.00		0.626	
32	27:40	1.00	1.238	1.00	0.29	50.00	0.003	0.574	0.01
33	10:26	1.00	1.355	1.00	48.53	50.00	1.697	1.749	0.97
34	21:09	1.00	0.948	1.00	49.69	50.00	1.116	1.123	0.99
35	25:58	1.00	1.163	1.00	53.21	50.00	0.989	0.929	1.06

MID MASS SPECTRUM
08/18/87 18:44:00 + 27:34
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V4R2 #877
CALI: 14558V4R2 #2

BASE M/Z: 91
RIC: 8048.

XYLENES

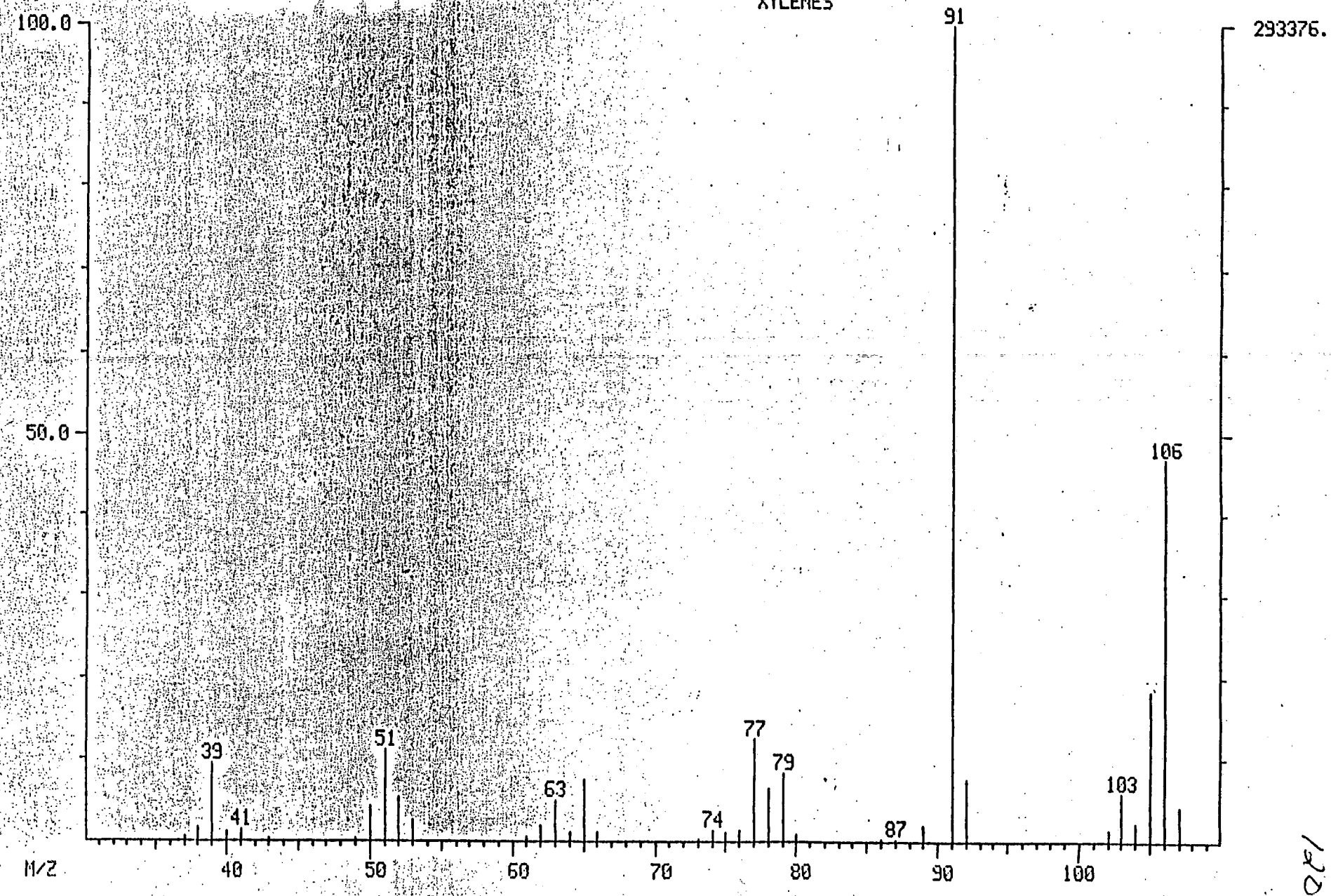


MID MASS SPECTRUM
02/21/87 11:08:00 + 27:26
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #874
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 808960.

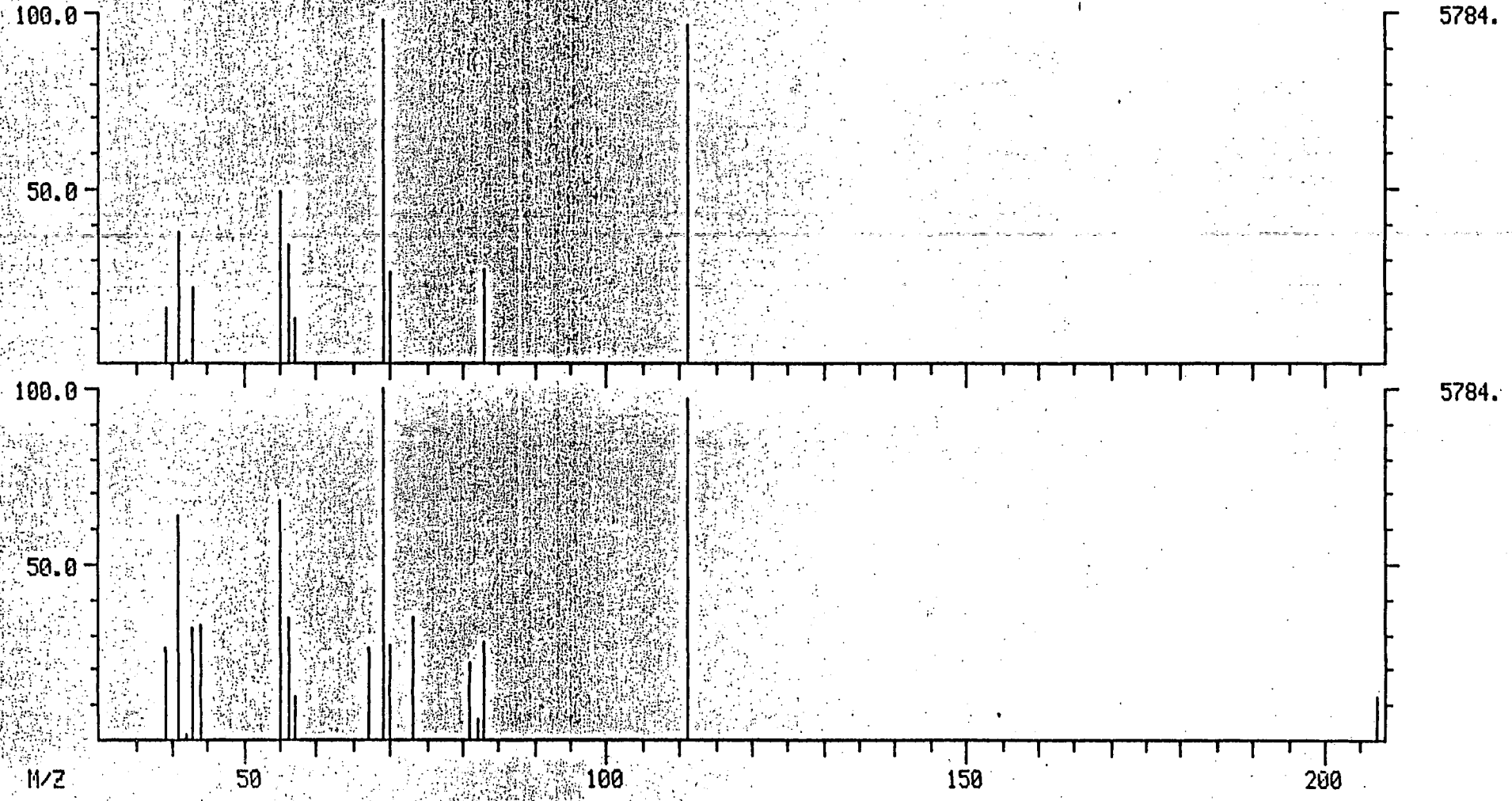
XYLENES



120

MID DUAL MASS SPECTRUM
08/18/87 18:44:00 + 23:38
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML; 100 UL PURGE
GC TEMP: 209 DEG. C
ENHANCED (S 15B 2N 0T)

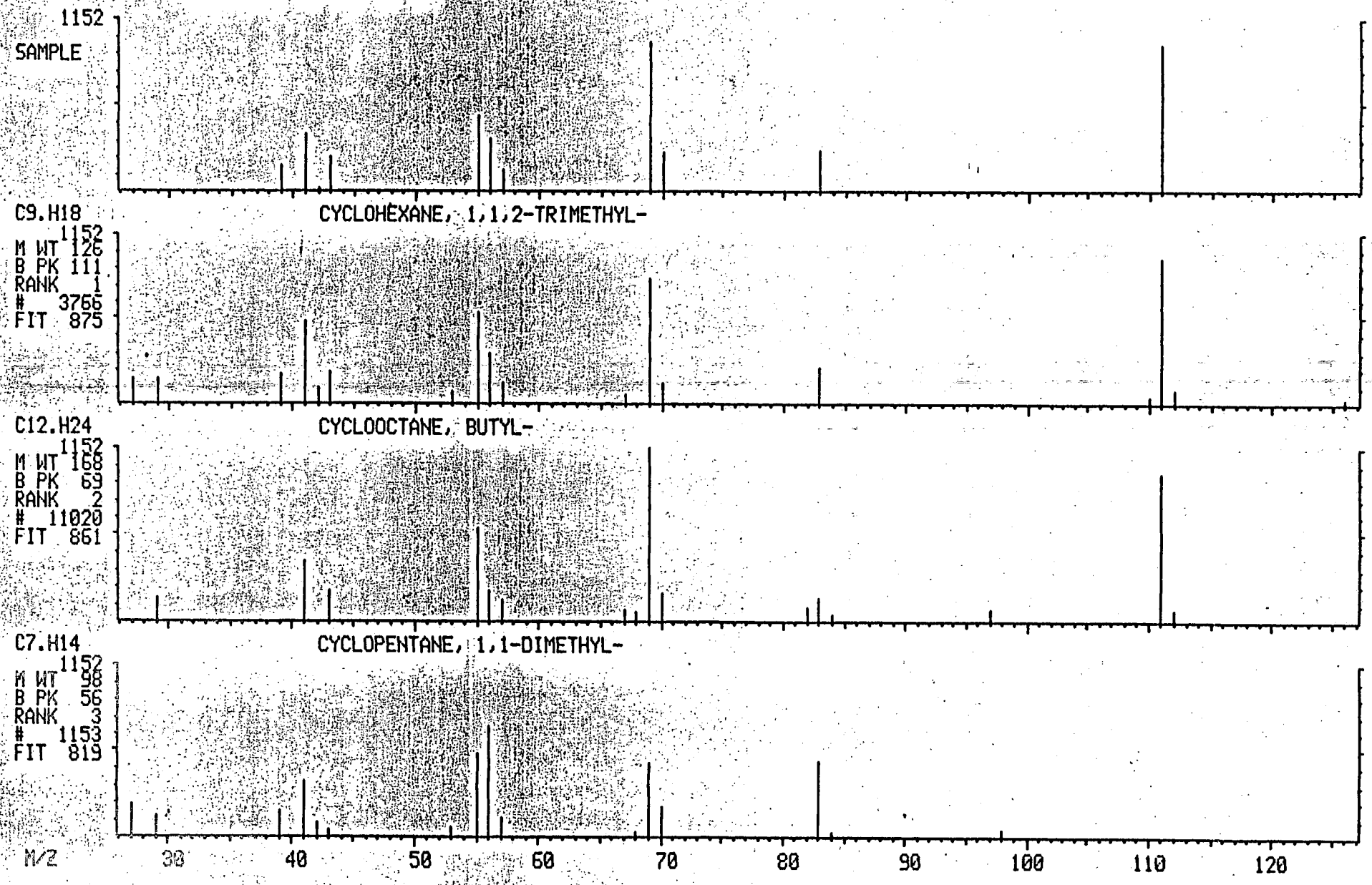
DATA: 14558V4R2 #752 BASE M/Z: 69/ 69
CALI: 14558V4R2 #2 RIC: 24287./ 36031.



121

MID LIBRARY SEARCH
08/18/87 18:44:00 + 23:38
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
ENHANCED (S 15B 2N 0T)

DATA: 14558V4R2 # 752 BASE M/Z: 69
CALI: 14558V4R2 # 2 RIC: 24287.



122

MID Library Search Data: 14558V4R2 # 752 Base m/z: 69
08/18/87 18:44:00 + 23:38 Cali: 14558V4R2 # 2 RIC: 24287.
Sample: 14558-4
Conds.: 4.3556G/10ML, 100 UL PURGE
Enhanced (S 15B 2N OT)

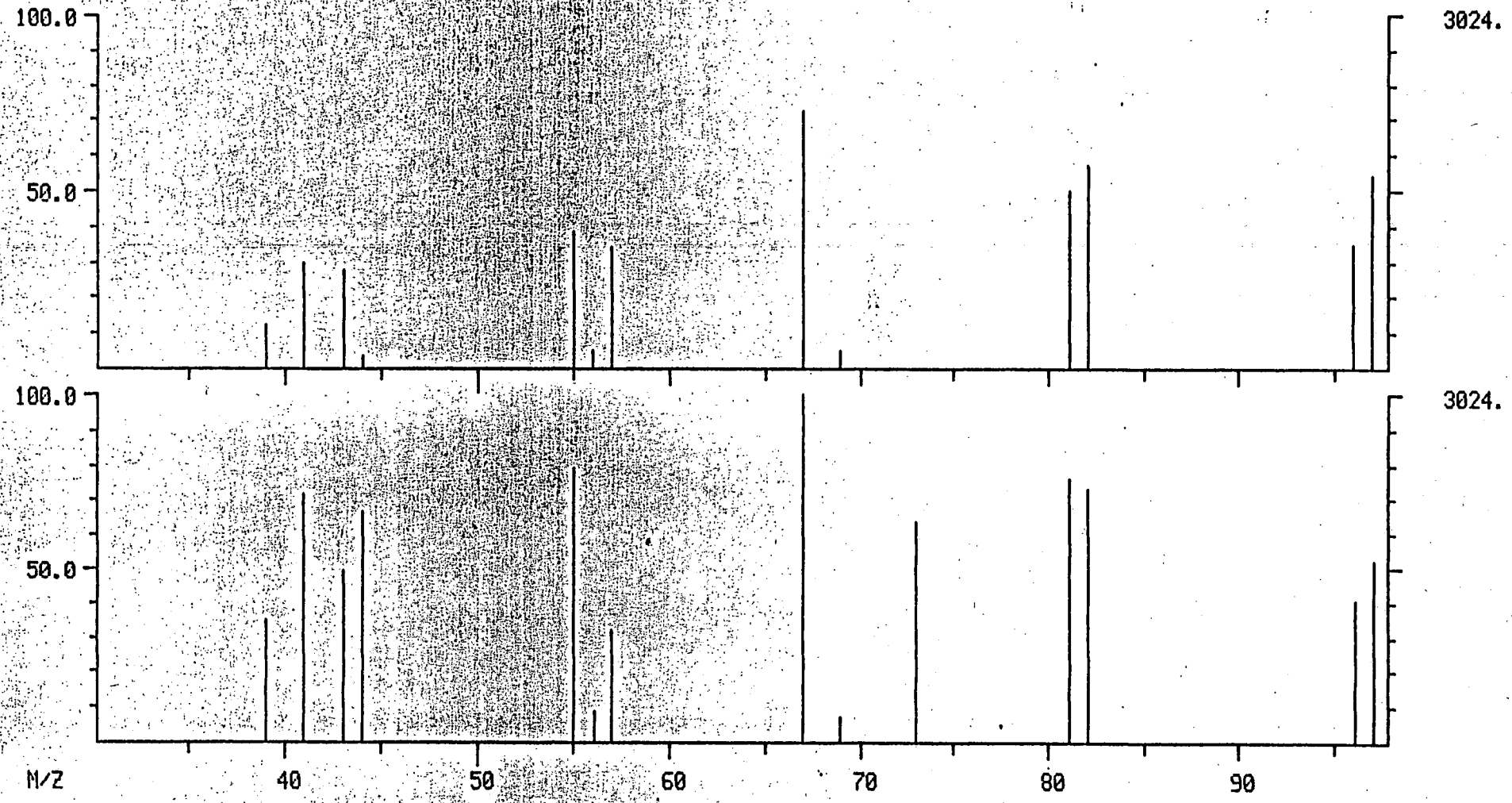
Rank	In.	Name
1	3766	CYCLOHEXANE, 1,1,2-TRIMETHYL-
2	11020	CYCLOOCTANE, BUTYL-
3	1153	CYCLOPENTANE, 1,1-DIMETHYL-
4	2792	1-HEXANOL, 3-METHYL-
5	5712	CYCLOPENTANE, (2-METHYLBUTYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	111	875	875	983
2	C12.H24	168	69	842	861	966
3	C7.H14	98	56	527	819	586
4	C7.H16.O	116	55	516	802	574
5	C10.H20	140	111	788	789	989

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	7094-26-0
2	———	———	———	———	16538-93-5
3	———	———	———	———	1638-26-2
4	———	———	———	———	13231-81-7
5	———	———	———	———	53366-38-4

MID DUAL MASS SPECTRUM
08/18/87 18:44:00 + 23:53
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
GC TEMP: 211 DEG. C
ENHANCED (S 15B 2N 0T)

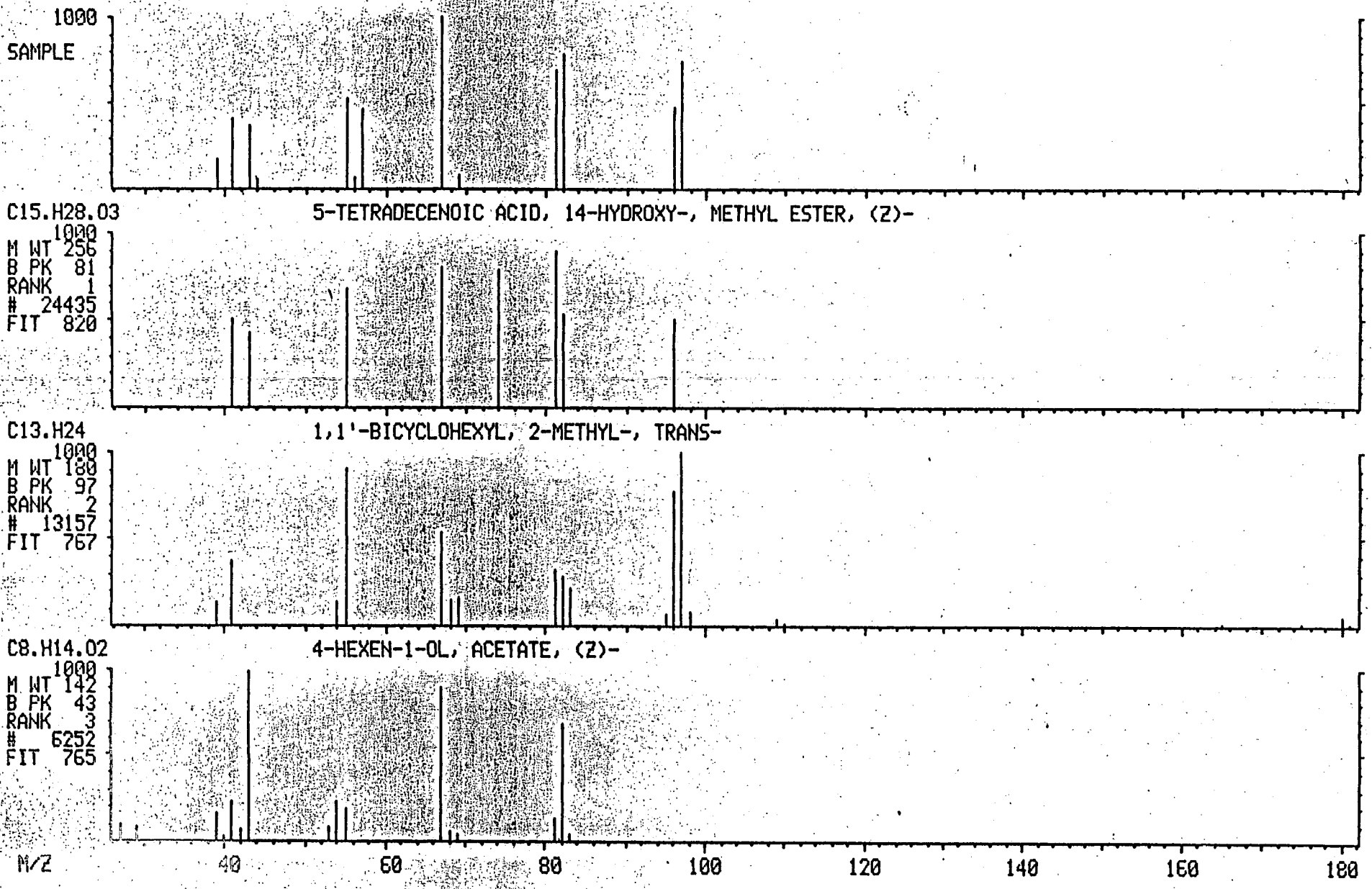
DATA: 14558V4R2 #760 BASE M/Z: 67/ 67
CALI: 14558V4R2 #2 RIC: 12863./ 22879.



124

MID LIBRARY SEARCH
08/18/87 18:44:00 + 23:53
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
ENHANCED (S 15B 2N 0T)

DATA: 14558V4R2 # 760 BASE M/Z: 67
CALI: 14558V4R2 # 2 RIC: 12863.



MID Library Search Data: 14558V4R2 # 760 Base m/z: 67
08/18/87 18:44:00 + 23:53 Cali: 14558V4R2 # 2 RIC: 12863.
Sample: 14558-4
Conds.: 4.3556G/10ML, 100 UL PURGE
Enhanced (S 15B 2N OT)

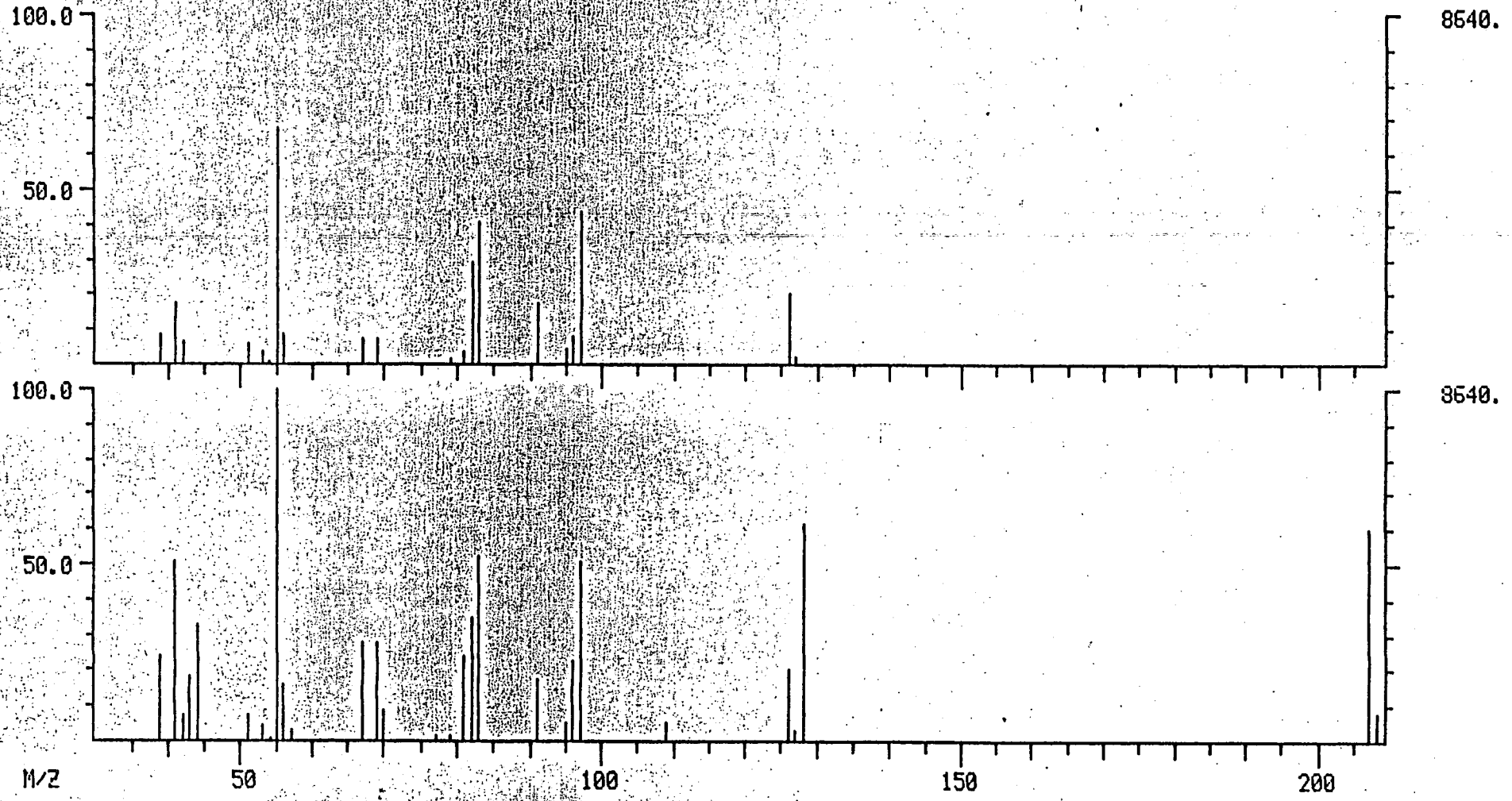
Rank	In.	Name
1	24435	5-TETRADECENOIC ACID, 14-HYDROXY-, METHYL ESTER, (Z)-
2	13157	1,1'-BICYCLOHEXYL, 2-METHYL-, TRANS-
3	6252	4-HEXEN-1-OL, ACETATE, (Z)-
4	13156	1,1'-BICYCLOHEXYL, 2-METHYL-, CIS-
5	5667	CYCLOPENTANE, 1,2-DIMETHYL-3-(1-METHYLETHYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H28.O3	256	81	586	820	703
2	C13.H24	180	97	676	767	809
3	C8.H14.O2	142	43	484	765	563
4	C13.H24	180	97	658	747	828
5	C10.H20	140	97	498	738	597

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	69494-18-4
2	___	___	___	___	50991-09-8
3	___	___	___	___	42125-17-7
4	___	___	___	___	50991-08-7
5	___	___	___	___	489-20-3

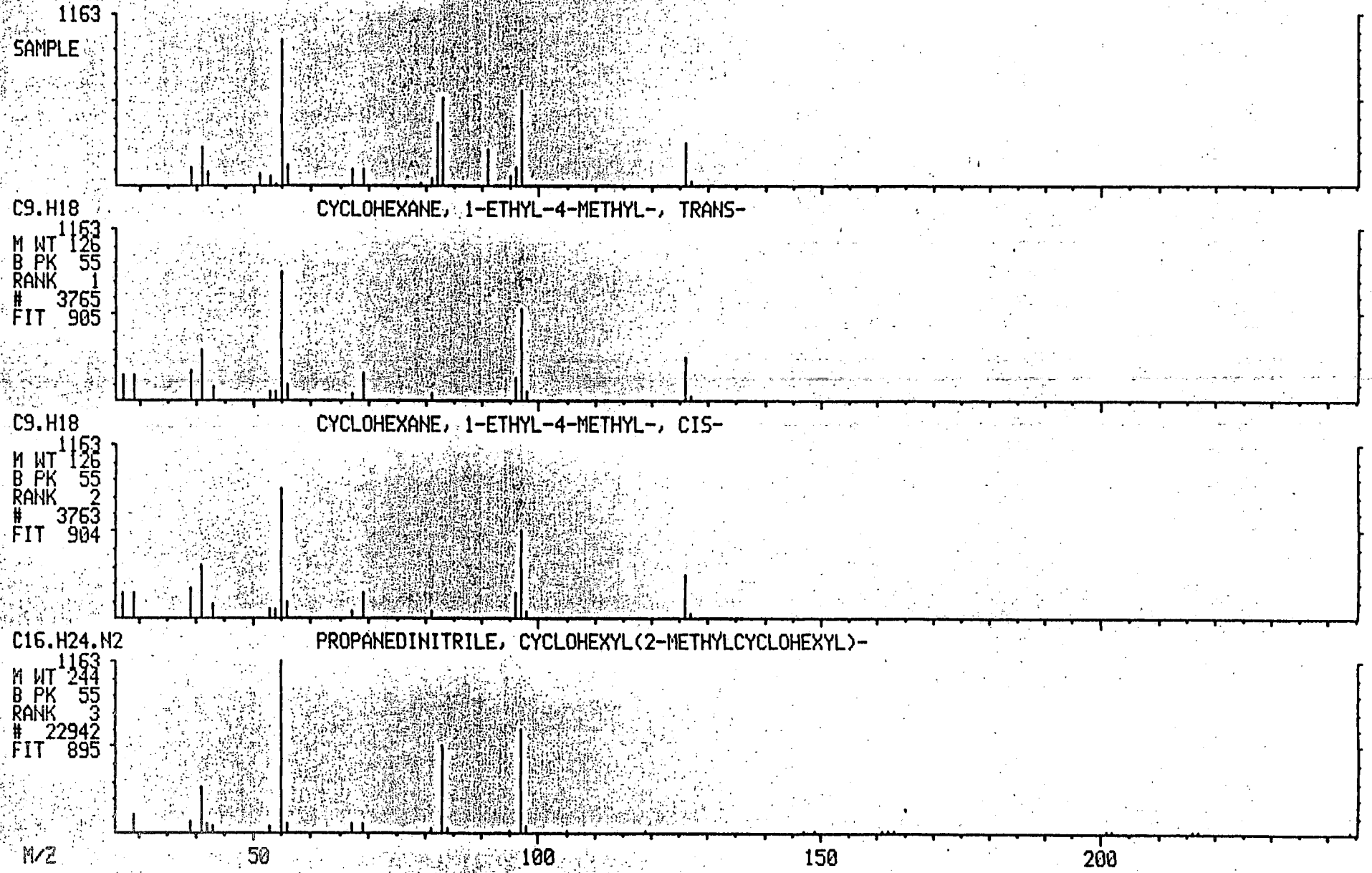
MID DUAL MASS SPECTRUM
08/18/87 18:44:00 + 26:55
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V4R2 #856 BASE M/Z: 55/ 55
CALI: 14558V4R2 #2 RIC: 26047./ 60287.



MID LIBRARY SEARCH
08/18/87 18:44:00 + 26:55
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
ENHANCED (S 15B 2N 0T)

DATA: 14558V4R2 # 856 BASE M/Z: 55
CALI: 14558V4R2 # 2 RIC: 26047.



881

MID Library Search Data: 14558V4R2 # 856 Base m/z: 55
08/18/87 18:44:00 + 26:55 Cali: 14558V4R2 # 2 RIC: 26047.
Sample: 14558-4
Conds.: 4.3556G/10ML, 100 UL PURGE
Enhanced (S 15B 2N OT)

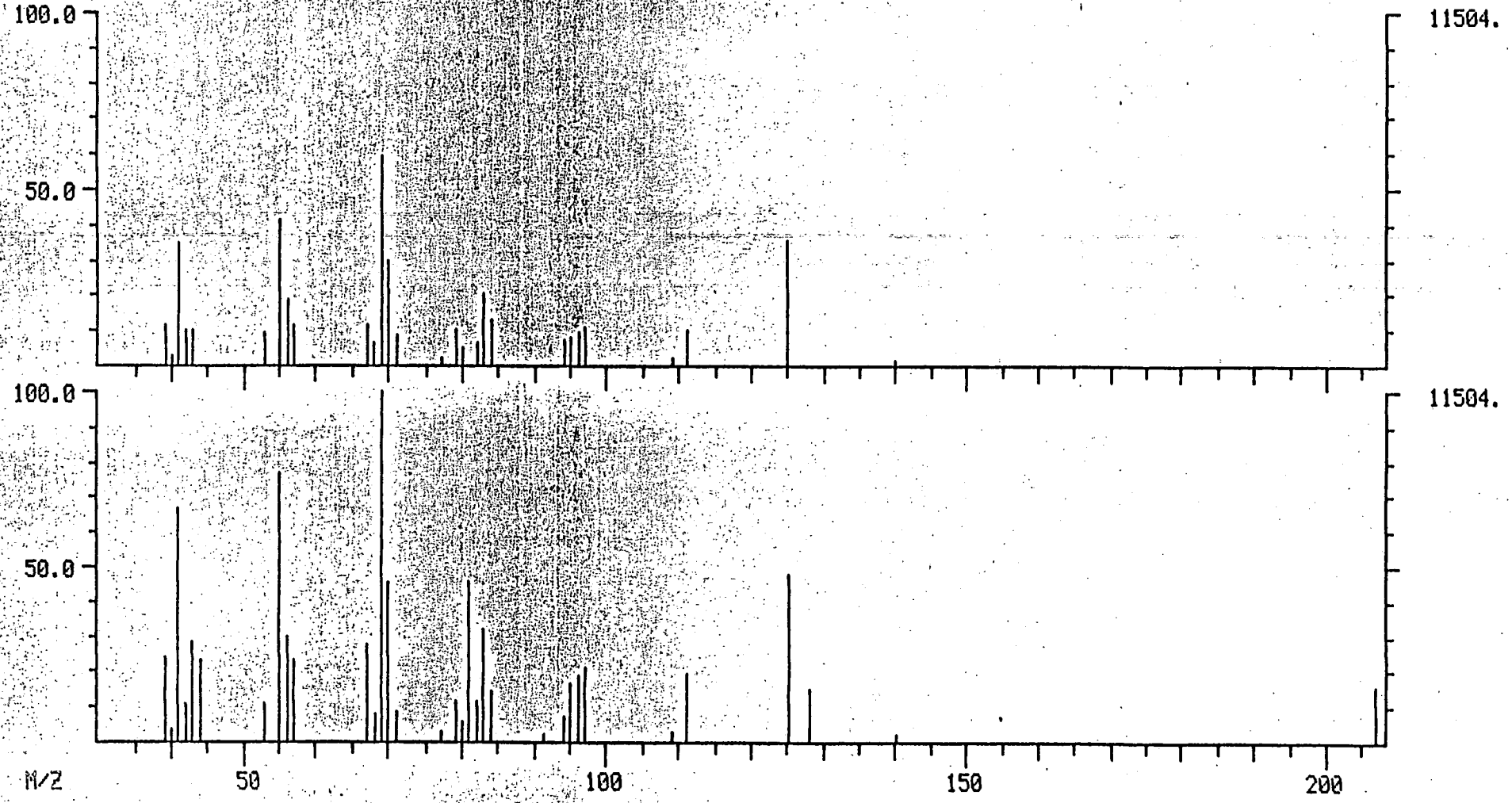
Rank	In.	Name
1	3765	CYCLOHEXANE, 1-ETHYL-4-METHYL-, TRANS-
2	3763	CYCLOHEXANE, 1-ETHYL-4-METHYL-, CIS-
3	22942	PROPANEDINITRILE, CYCLOHEXYL(2-METHYLCYCLOHEXYL)-
4	3744	CYCLOHEXANE, (1-METHYLETHYL)-
5	3442	CYCLOHEXANE, 2-PROPENYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	55	575	905	625
2	C9.H18	126	55	574	904	623
3	C16.H24.N2	244	55	586	895	642
4	C9.H18	126	55	593	891	644
5	C9.H16	124	55	478	883	521

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	6236-88-0
2	___	___	___	___	4926-78-7
3	___	___	___	___	74764-55-9
4	___	___	___	___	696-29-7
5	___	___	___	___	2114-42-3

MID DUAL MASS SPECTRUM
08/18/87 18:44:00 + 28:21
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

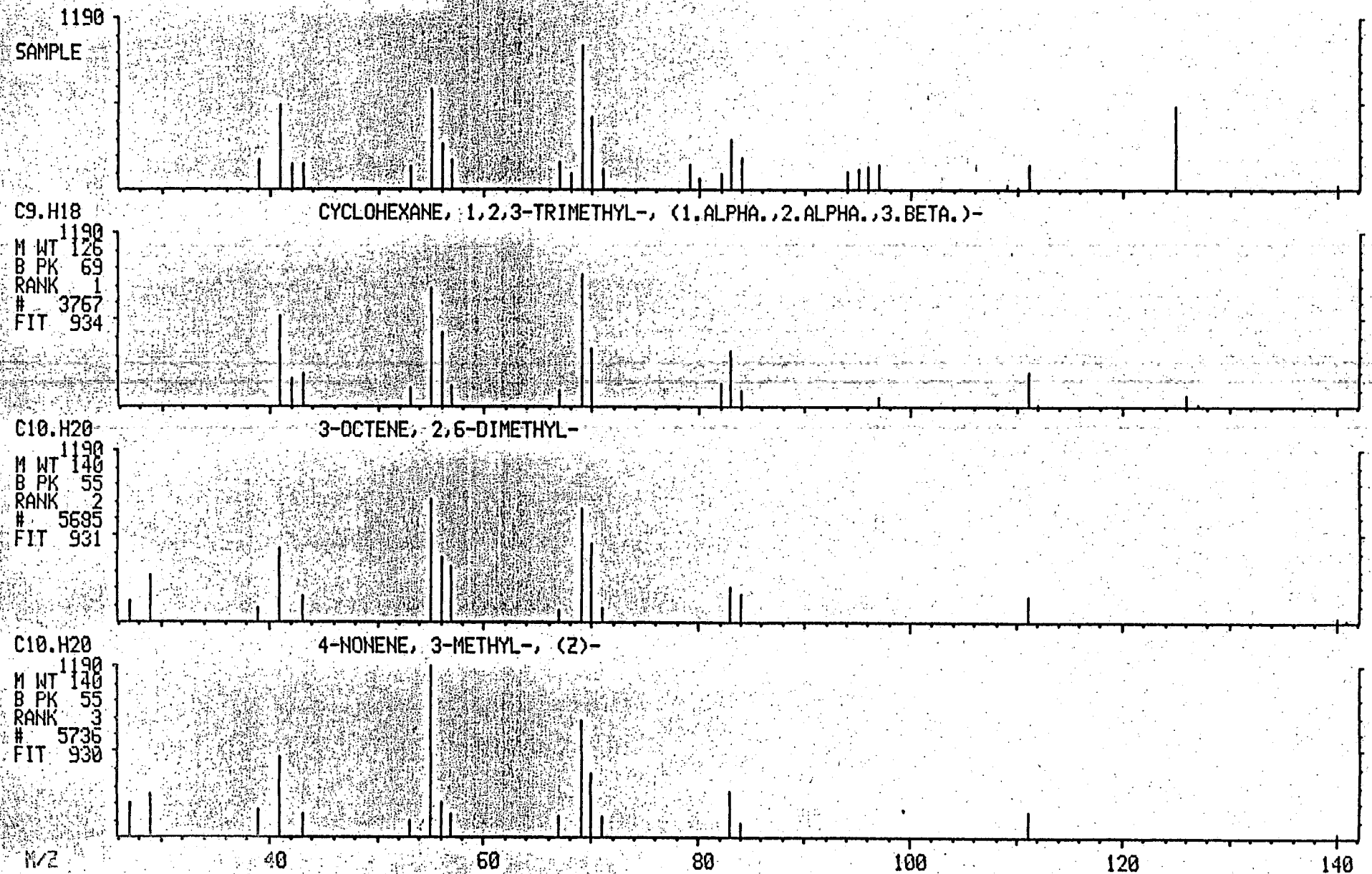
DATA: 14558V4R2 #902 BASE M/Z: 69/ 69
CALI: 14558V4R2 #2 RIC: 47103./ 90111.



130

MID LIBRARY SEARCH
08/18/87 18:44:00 + 28:21
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
ENHANCED (S 15B 2N 0T)

DATA: 14558V4R2 # 902 BASE M/Z: 69
CALI: 14558V4R2 # 2 RIC: 46527.



MID Library Search Data: 14558V4R2 # 902 Base m/z: 69
08/18/87 18:44:00 + 28:21 Cali: 14558V4R2 # 2 RIC: 46527.
Sample: 14558-4
Conds.: 4.3556G/10ML, 100 UL PURGE
Enhanced (S 15B 2N OT)

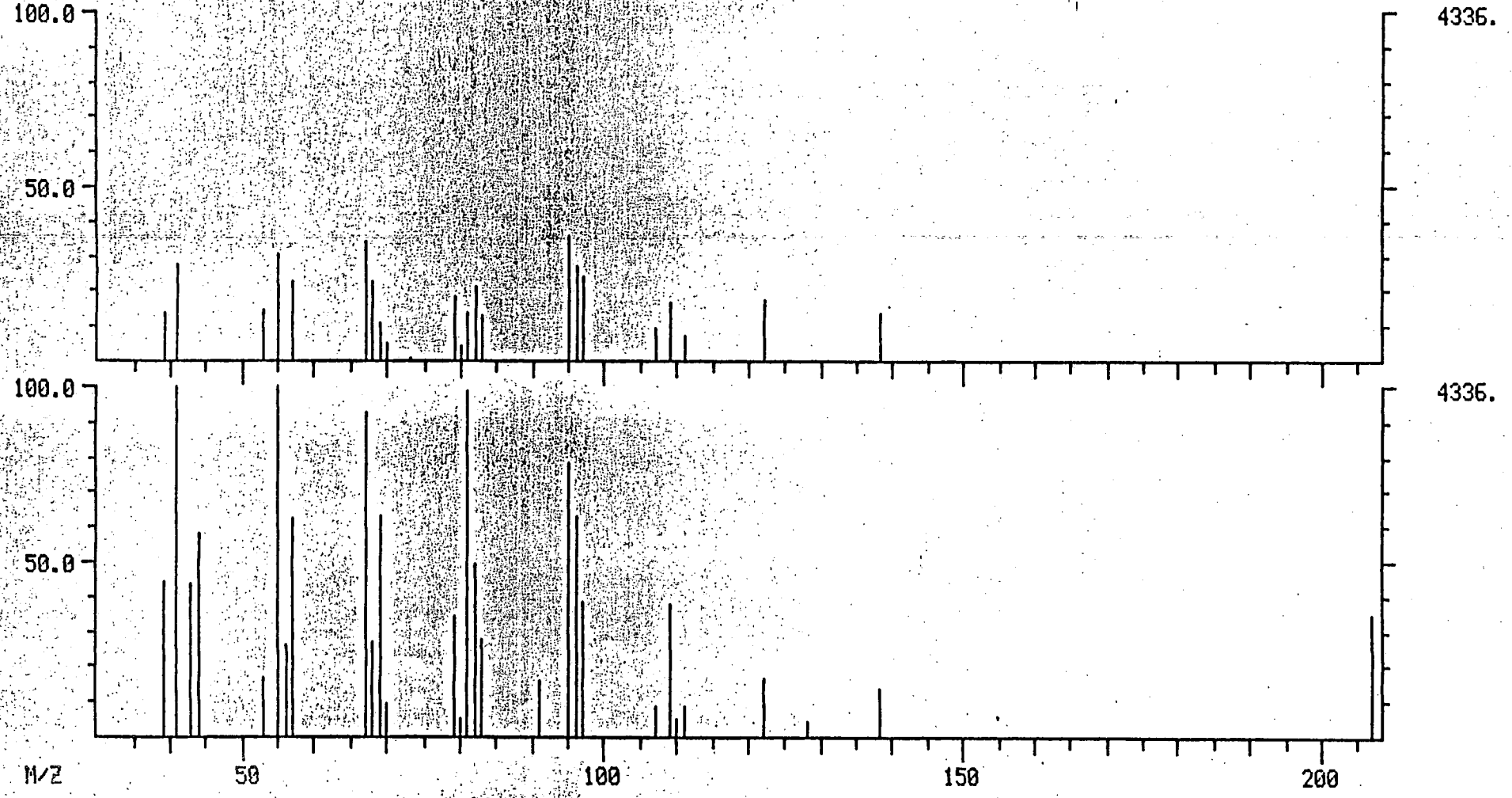
Rank	In.	Name
1	3767	CYCLOHEXANE, 1,2,3-TRIMETHYL-, (1.ALPHA.,2.ALPHA.,3.BETA.)-
2	5685	3-OCTENE, 2,6-DIMETHYL-
3	5736	4-NONENE, 3-METHYL-, (Z)-
4	5690	CYCLOOCTANE, 1,4-DIMETHYL-, TRANS-
5	11056	4-NONENE, 2,3,3-TRIMETHYL-, (Z)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	69	614	934	640
2	C10.H20	140	55	573	931	601
3	C10.H20	140	55	589	930	619
4	C10.H20	140	55	730	928	766
5	C12.H24	168	69	705	922	726

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	———	———	———	———	7667-55-2
2	———	———	———	———	6874-28-8
3	———	———	———	———	63830-69-3
4	———	———	———	———	13151-98-9
5	———	———	———	———	63830-68-2

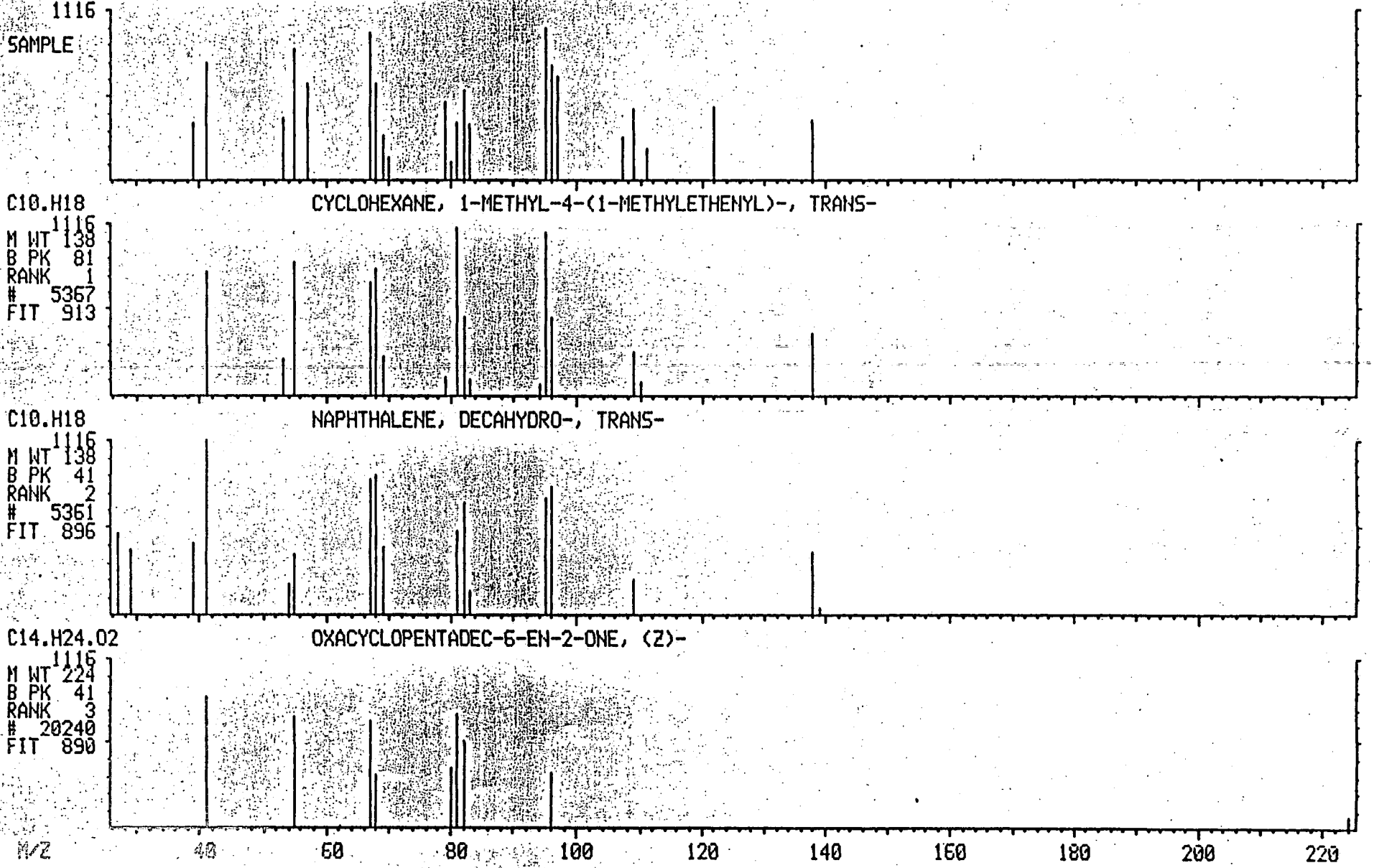
MID DUAL MASS SPECTRUM
08/18/87 18:44:00 + 28:51
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V4R2 #918 BASE M/Z: 95/ 55
CALI: 14558V4R2 #2 RIC: 17503./ 51455.



MID LIBRARY SEARCH
08/18/87 18:44:00 + 28:51
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
ENHANCED (S 15B 2N 0T)

DATA: 14558V4R2 # 918 BASE M/Z: 95
CALI: 14558V4R2 # 2 RIC: 17471.



MID Library Search Data: 14558V4R2 # 918 Base m/z: 95
08/18/87 18:44:00 + 28:51 Cali: 14558V4R2 # 2 RIC: 17471.
Sample: 14558-4
Conds.: 4.3556G/10ML, 100 UL PURGE
Enhanced (S 15B 2N OT)

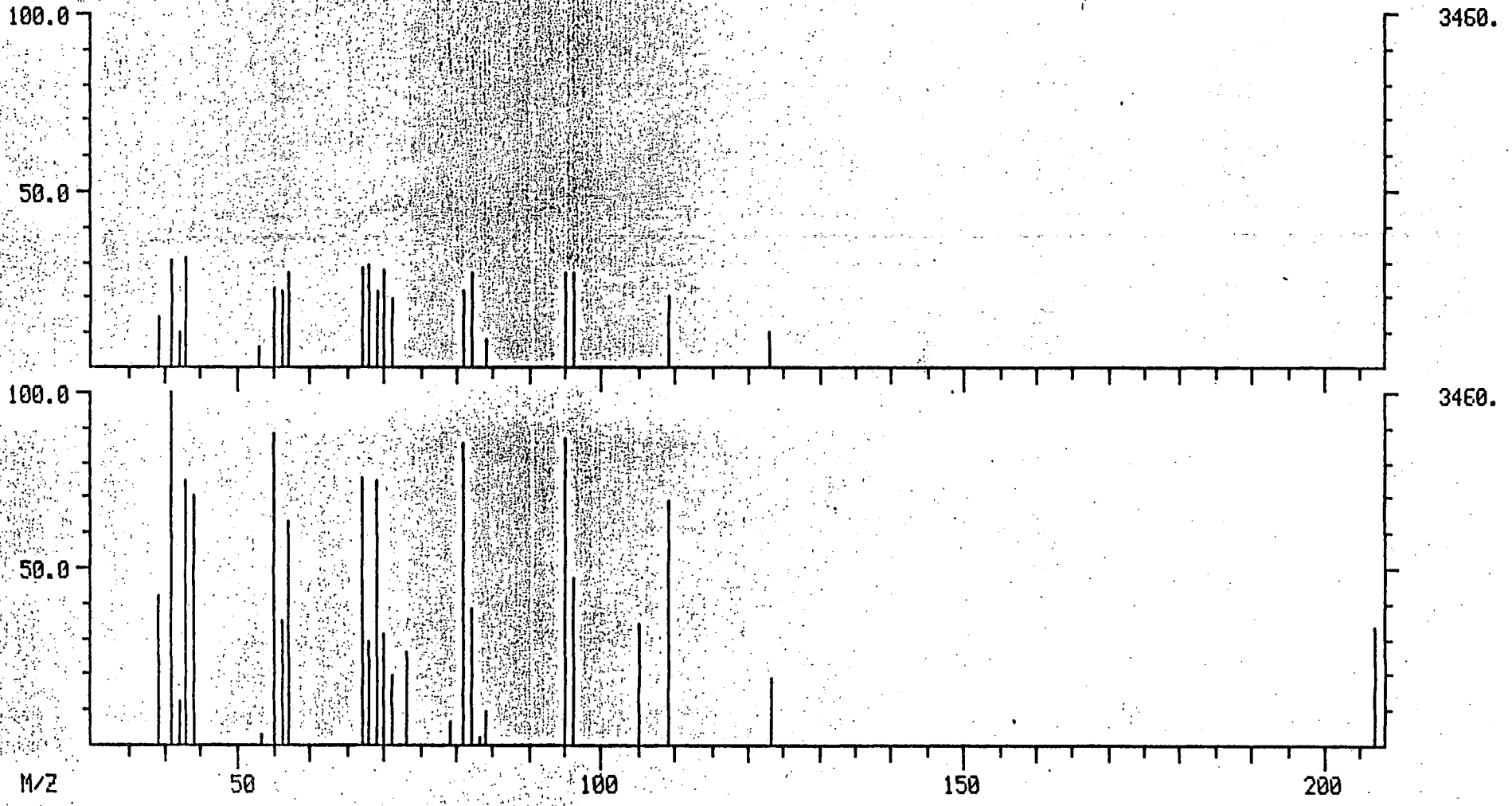
Rank	In.	Name
1	5367	CYCLOHEXANE, 1-METHYL-4-(1-METHYLETHENYL)-, TRANS-
2	5361	NAPHTHALENE, DECAHYDRO-, TRANS-
3	20240	OXACYCLOPENTADEC-6-EN-2-ONE, (Z)-
4	5371	1,1'-BICYCLOPENTYL
5	5355	NAPHTHALENE, DECAHYDRO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H18	138	81	661	913	679
2	C10.H18	138	41	602	896	647
3	C14.H24.O2	224	41	344	890	361
4	C10.H18	138	41	595	886	637
5	C10.H18	138	96	641	882	677

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	1124-25-0
2	___	___	___	___	493-02-7
3	___	___	___	___	63958-52-1
4	___	___	___	___	1636-39-1
5	___	___	___	___	91-17-8

MID DUAL MASS SPECTRUM
08/18/87 18:44:00 + 29:40
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V4R2 #944 BASE M/Z: 43/ 41
CALI: 14558V4R2 #2 RIC: 14831./ 40639.



MID LIBRARY SEARCH
08/18/87 18:44:00 + 29:40
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
ENHANCED (S 15B 2N 0T)

DATA: 14558V4R2 # 944
CALI: 14558V4R2 # 2

BASE M/Z: 43
RIC: 14831.

1831
SAMPLE

C10.H18
CYCLOPENTANE, 1,2-DIMETHYL-3-(1-METHYLETHENYL)-
1831
M WT 138
B PK 95
RANK 1
5388
FIT 905

C9.H16
1,6-HEPTADIENE, 2,5-DIMETHYL-
1831
M WT 124
B PK 68
RANK 2
3484
FIT 903

C14.H26.O2
BUTANOIC ACID, 3,7-DIMETHYL-6-OCTENYL ESTER
1831
M WT 226
B PK 41
RANK 3
20569
FIT 878

M/Z
40
60
80
100
120

137

MID Library Search Data: 14558V4R2 # 944 Base m/z: 43
08/18/87 18:44:00 + 29:40 Cali: 14558V4R2 # 2 RIC: 14831.
Sample: 14558-4
Conds.: 4.3556G/10ML, 100 UL PURGE
Enhanced (S 15B 2N OT)

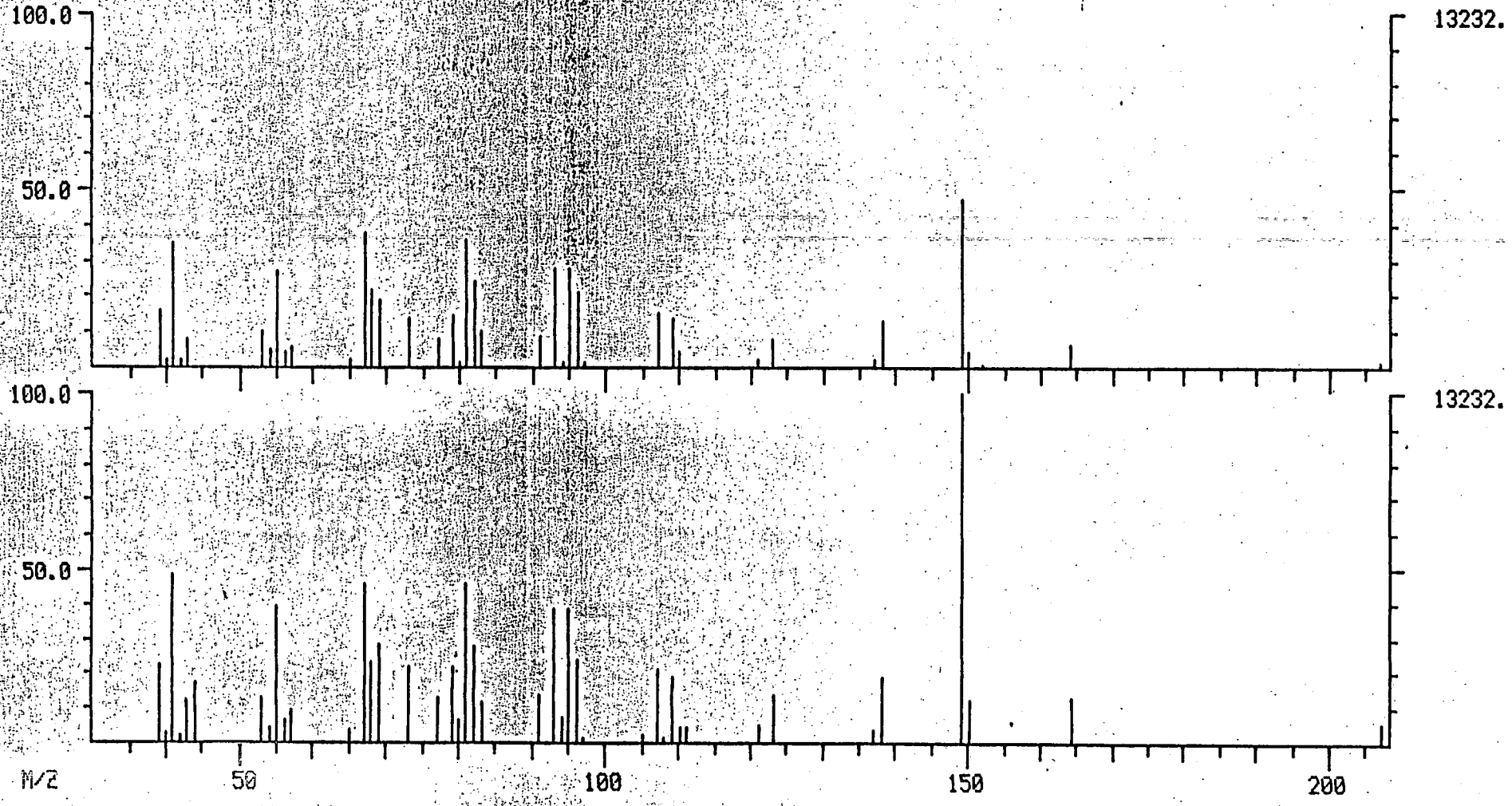
Rank	In.	Name
1	5388	CYCLOPENTANE, 1,2-DIMETHYL-3-(1-METHYLETHENYL)-
2	3484	1,6-HEPTADIENE, 2,5-DIMETHYL-
3	20569	BUTANOIC ACID, 3,7-DIMETHYL-6-OCTENYL ESTER
4	3402	CYCLOHEXANOL, 1-ETHYNYL-
5	11419	10-UNDECEN-1-OL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H18	138	95	639	905	671
2	C9.H16	124	68	645	903	670
3	C14.H26.O2	226	41	728	878	770
4	C8.H12.O	124	81	625	873	651
5	C11.H22.O	170	55	694	868	752

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	6983-03-5
2	———	———	———	———	68701-90-6
3	———	———	———	———	141-16-2
4	———	———	———	———	78-27-3
5	———	———	———	———	112-43-6

MID DUAL MASS SPECTRUM
08/18/87 18:44:00 + 31:11
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V4R2 #992 BASE M/Z: 149/ 149
CALI: 14558V4R2 #2 RIC: 67455./ 102143.

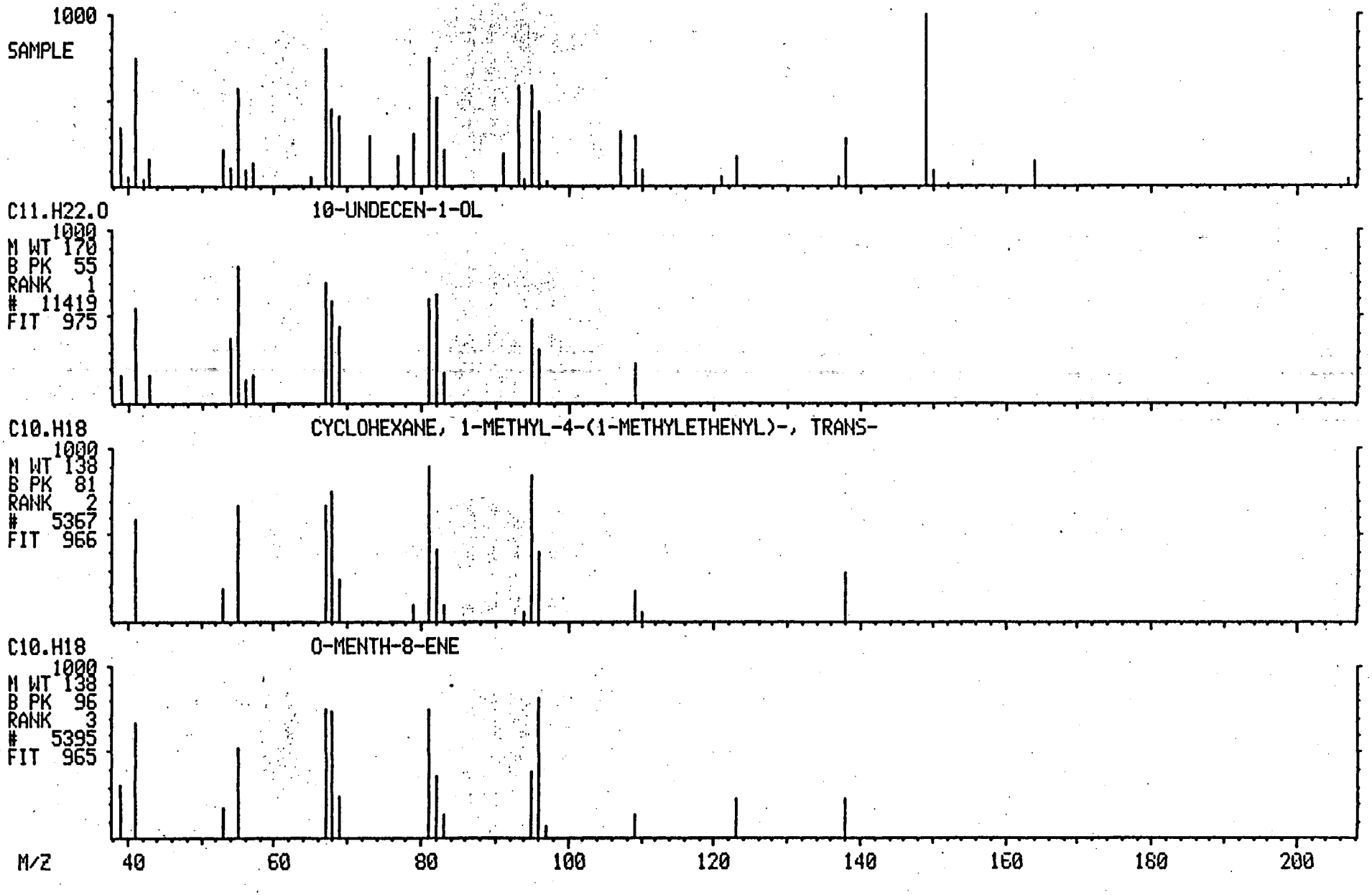


139

MID LIBRARY SEARCH
08/18/87 18:44:00 + 31:11
SAMPLE: 14558-4
CONDS.: 4.3556G/10ML, 100 UL PURGE
ENHANCED (S 15B 2N 0T)

DATA: 14558V4R2 # 992
CALI: 14558V4R2 # 2

BASE M/Z: 149
RIC: 67327.



MID Library Search Data: 14558V4R2 # 992 Base m/z: 149
08/18/87 18:44:00 + 31:11 Cali: 14558V4R2 # 2 RIC: 67327.
Sample: 14558-4
Conds.: 4.3556G/10ML, 100 UL PURGE
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	11419	10-UNDECEN-1-OL
2	5367	CYCLOHEXANE, 1-METHYL-4-(1-METHYLETHENYL)-, TRANS-
3	5395	O-MENTH-8-ENE
4	5355	NAPHTHALENE, DECAHYDRO-
5	5356	SPIRO[4.5]DECANE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H22.O	170	55	487	975	487
2	C10.H18	138	81	532	966	532
3	C10.H18	138	96	531	965	531
4	C10.H18	138	67	499	962	503
5	C10.H18	138	67	496	957	501

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	112-43-6
2	___	___	___	___	1124-25-0
3	___	___	___	___	15193-25-6
4	___	___	___	___	91-17-8
5	___	___	___	___	176-63-6

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 0811749-R2

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-5R2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 14558V5R2

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 50 Date Analyzed: 08/19/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	15	X
67-64-1	Acetone	20	U
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	20	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
108-05-4	Vinyl Acetate	20	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
110-75-8	2-Chloroethylvinylether	20	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	6	J
79-34-5	1,1,2,2-Tetrachloroethane	20	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
----------	Total Xylenes	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0811749-R2

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14559 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-SR2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 14558V5R2

Level: (low/med) LOW Date Received: 08/11/87

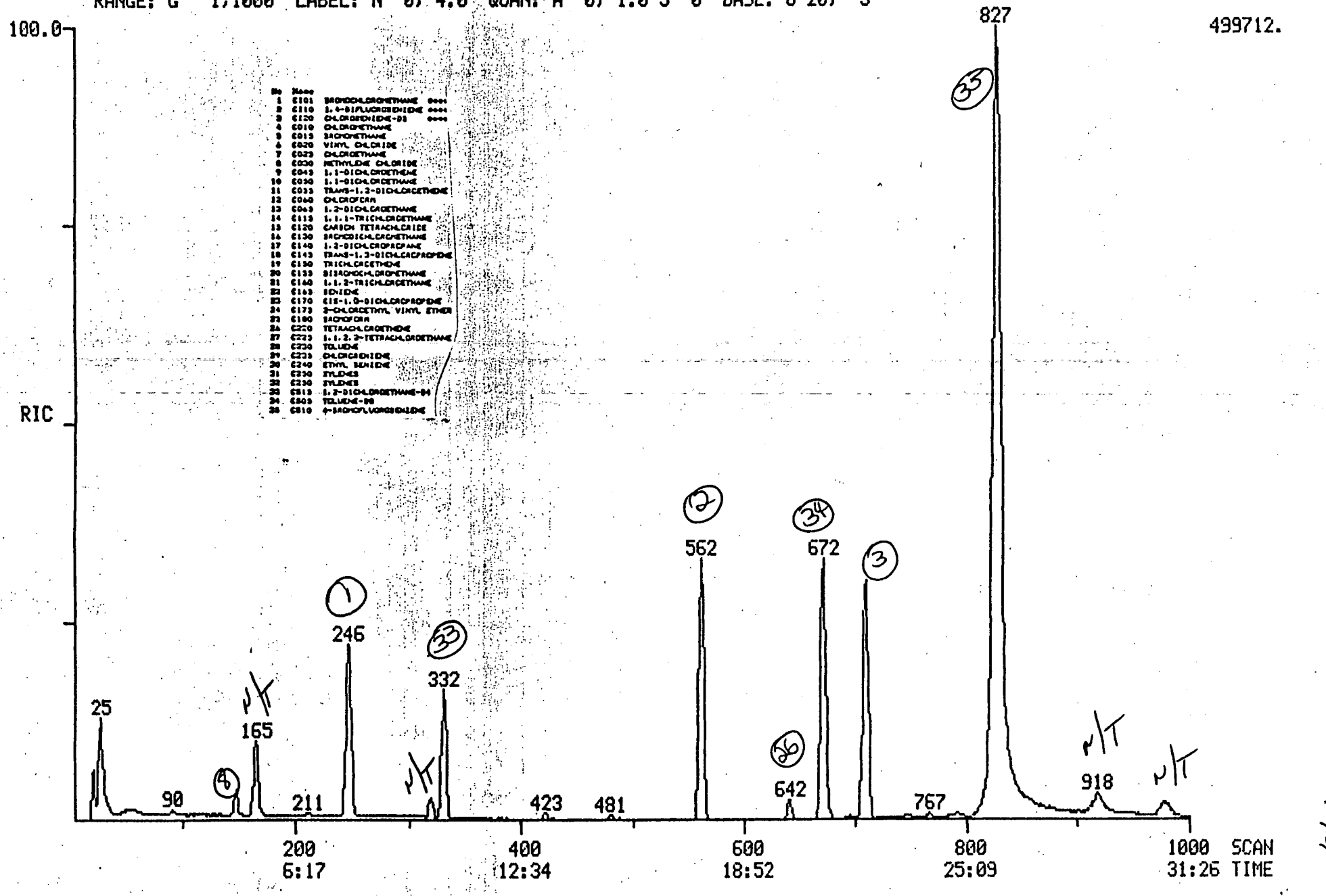
% Moisture: not dec. 50 Date Analyzed: 08/19/87

Column (pack/cap) PACKED Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q


MIDRIC
08/19/87 11:39:00
SAMPLE: 14558-5
CONDS.: 5.0035 G
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558V5R2 #1
CALI: 14558V5R2 #2
SCANS 1 TO 1000
100.0
RIC
499712.
827
562
672
246
332
165
25
90
211
423
481
642
767
918
200
6:17
400
12:34
600
18:52
800
25:09
1000 SCAN
31:26 TIME

Quantitation Report File: 14558V5R2

Data: 14558V5R2.TI
08/19/87 11:39:00
Sample: 14558-5
Conds.: 5.0035 G
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

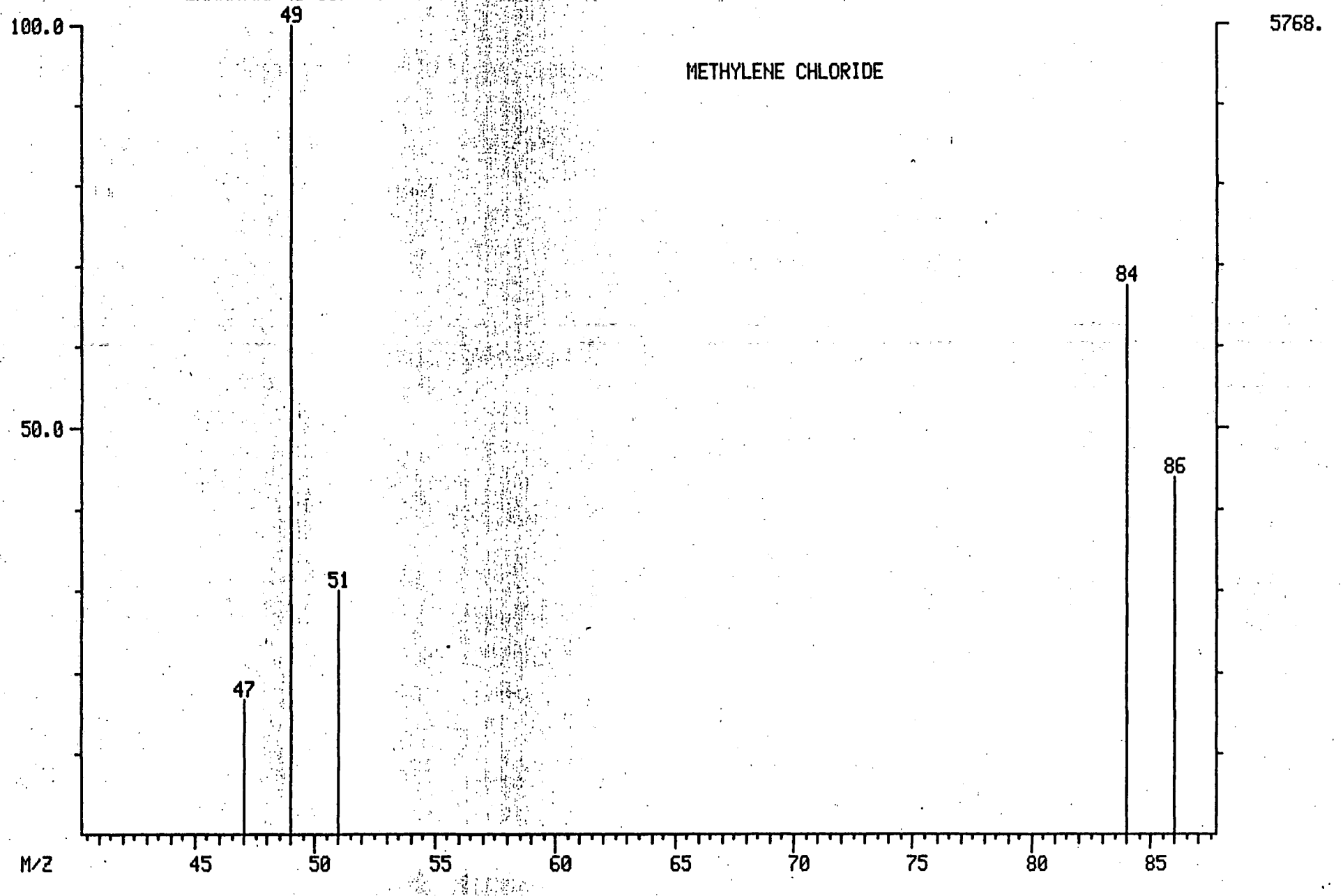
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	128	246	7:44	1	1.000	A BB	84184.	50.000	UG/L	16.32	
2	114	562	17:40	2	1.000	A BB	410888.	50.000	UG/L	16.32	
3	117	709	22:17	3	1.000	A BB	284662.	50.000	UG/L	16.32	
4	NOT FOUND										
5	NOT FOUND										
6	NOT FOUND										
7	NOT FOUND										
8	84	147	4:37	1	0.598	A BB	16744.	7.730	UG/L	2.52	yes PA
9	NOT FOUND										
10	NOT FOUND										
11	NOT FOUND										
12	NOT FOUND										
13	NOT FOUND										
14	NOT FOUND										
15	NOT FOUND										
16	NOT FOUND										
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	164	642	20:11	3	0.906	A BB	10483.	3.217	UG/L	1.05	yes PA
27	NOT FOUND										
28	92	677	21:17	3	0.955	A BB	~~8171.~~	~~1.823~~	~~UG/L~~	~~0.59~~	yes PA
29	NOT FOUND										
30	NOT FOUND										
31	NOT FOUND										
32	NOT FOUND										
33	65	332	10:26	1	1.350	A BB	138510.	46.767	UG/L	15.26	yes PA
34	98	672	21:07	3	0.948	A BB	348052.	53.843	UG/L	17.57	yes PA
35	95	825	25:56	3	1.164	A BB	238039.	43.077	UG/L	14.06	yes PA

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:17	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19		0.171			50.00		0.461	
5	1:53		0.245			50.00		1.133	
6	2:20		0.302			50.00		1.084	
7	2:55		0.380			50.00		0.830	
8	4:35	1.01	0.596	1.00	7.73	50.00	0.199	1.287	0.15
9	7:12		0.935			50.00		1.284	
10	8:27		1.098			50.00		2.706	
11	9:11		1.192			50.00		1.419	
12	9:50		1.278			50.00		3.374	
13	10:30		1.363			50.00		2.167	
14	11:42		0.663			50.00		0.498	
15	12:02		0.683			50.00		0.334	
16	12:44		0.722			50.00		0.600	
17	13:56		0.790			50.00		0.361	
18	14:13		0.806			50.00		0.636	
19	14:45		0.836			50.00		0.484	
20	15:26		0.875			50.00		0.491	
21	15:30		0.879			50.00		0.374	
22	15:09		0.859			50.00		0.868	
23	15:28		0.877			50.00		0.272	
24	16:28		0.934			50.00		0.235	
25	18:01		1.021			50.00		0.411	
26	20:09	1.00	0.904	1.00	3.22	50.00	0.037	0.572	0.06
27	20:13		0.907			50.00		0.896	
28	21:17	1.00	0.955	1.00	1.82	50.00	0.029	0.787	0.04
29	22:25		1.006			50.00		1.103	
30	24:07		1.082			50.00		0.505	
31	27:02		1.213			50.00		0.003	
32	27:38		1.240			50.00		0.651	
33	10:24	1.00	1.351	1.00	46.77	50.00	1.645	1.759	0.94
34	21:07	1.00	0.948	1.00	53.84	50.00	1.223	1.135	1.08
35	25:58	1.00	1.165	1.00	43.08	50.00	0.836	0.971	0.86

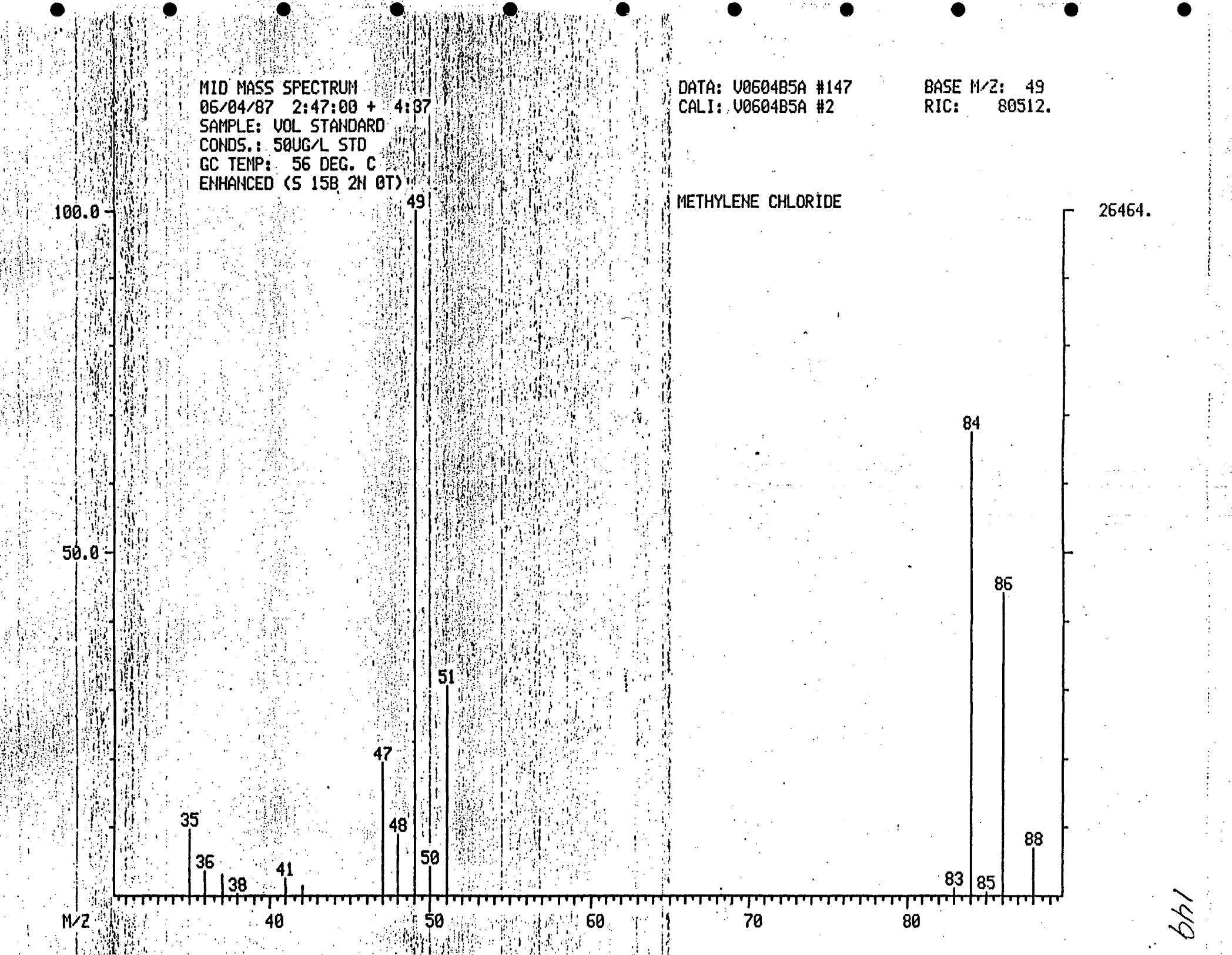
MID MASS SPECTRUM
08/19/87 11:39:00 + 4:37
SAMPLE: 14558-5
CONDS.: 5.0035 G
GC TEMP: 56 DEG. C
ENHANCED (5 15B 2N 0T)

DATA: 14558V5R2 #147
CALI: 14558V5R2 #2

BASE M/Z: 49
RIC: 14896.



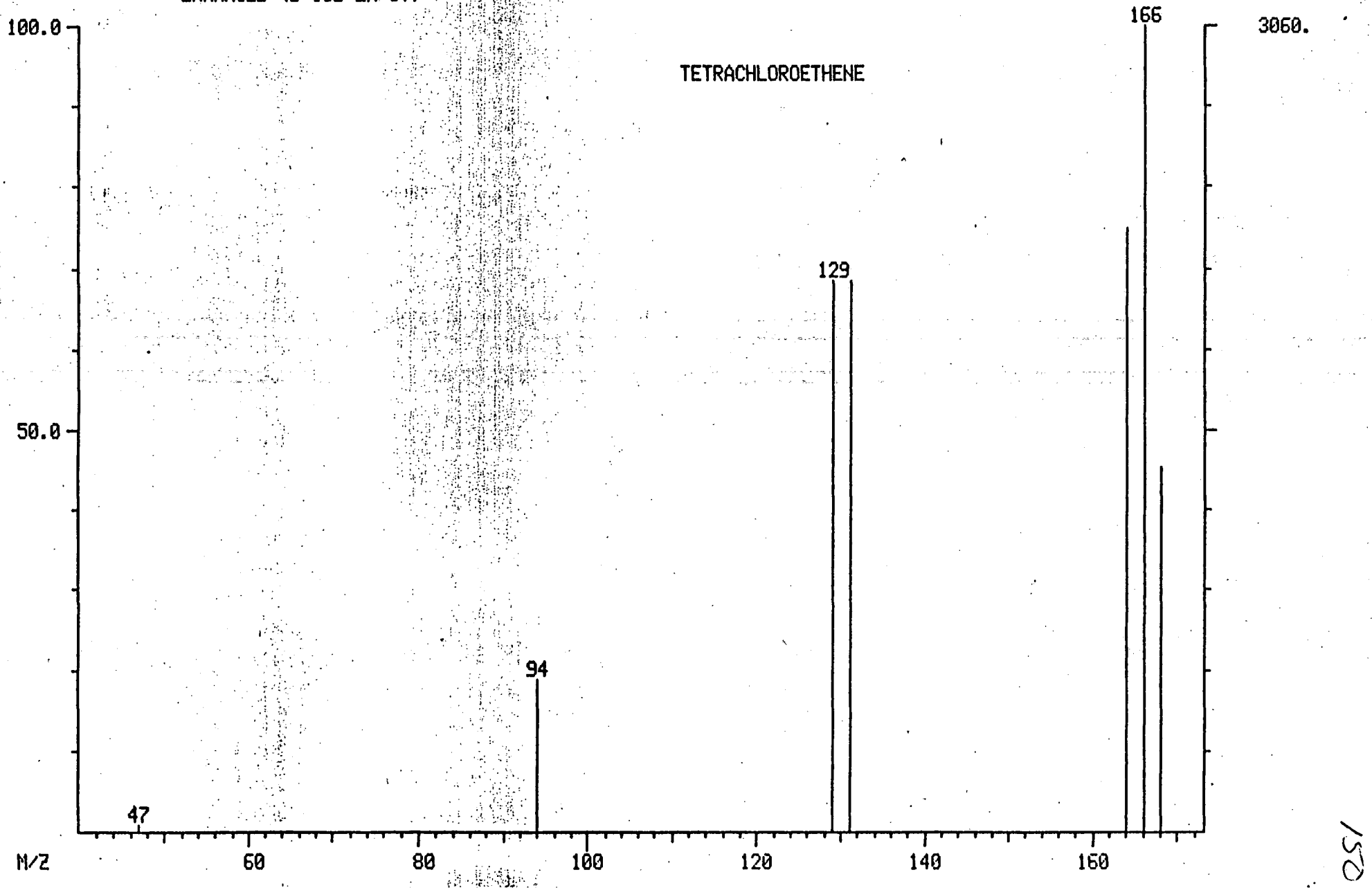
148


MID MASS SPECTRUM
06/04/87 2:47:00 + 4:37
SAMPLE: VOL STANDARD
CONDS.: 50UG/L STD
GC TEMP: 56 DEG. C
ENHANCED (S 15B 2N 0T)
DATA: V0604B5A #147
CALI: V0604B5A #2
BASE M/Z: 49
RIC: 80512.
METHYLENE CHLORIDE
26464.
100.0
50.0
M/Z
40
50
60
70
80
49
84
86
51
47
35
48
36
50
41
38
83
85
88

MID MASS SPECTRUM
08/19/87 11:39:00 + 20:11
SAMPLE: 14558-5
CONDS.: 5.0035 G
GC TEMP: 181 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V5R2 #642
CALI: 14558V5R2 #2

BASE M/Z: 166
RIC: 11552.



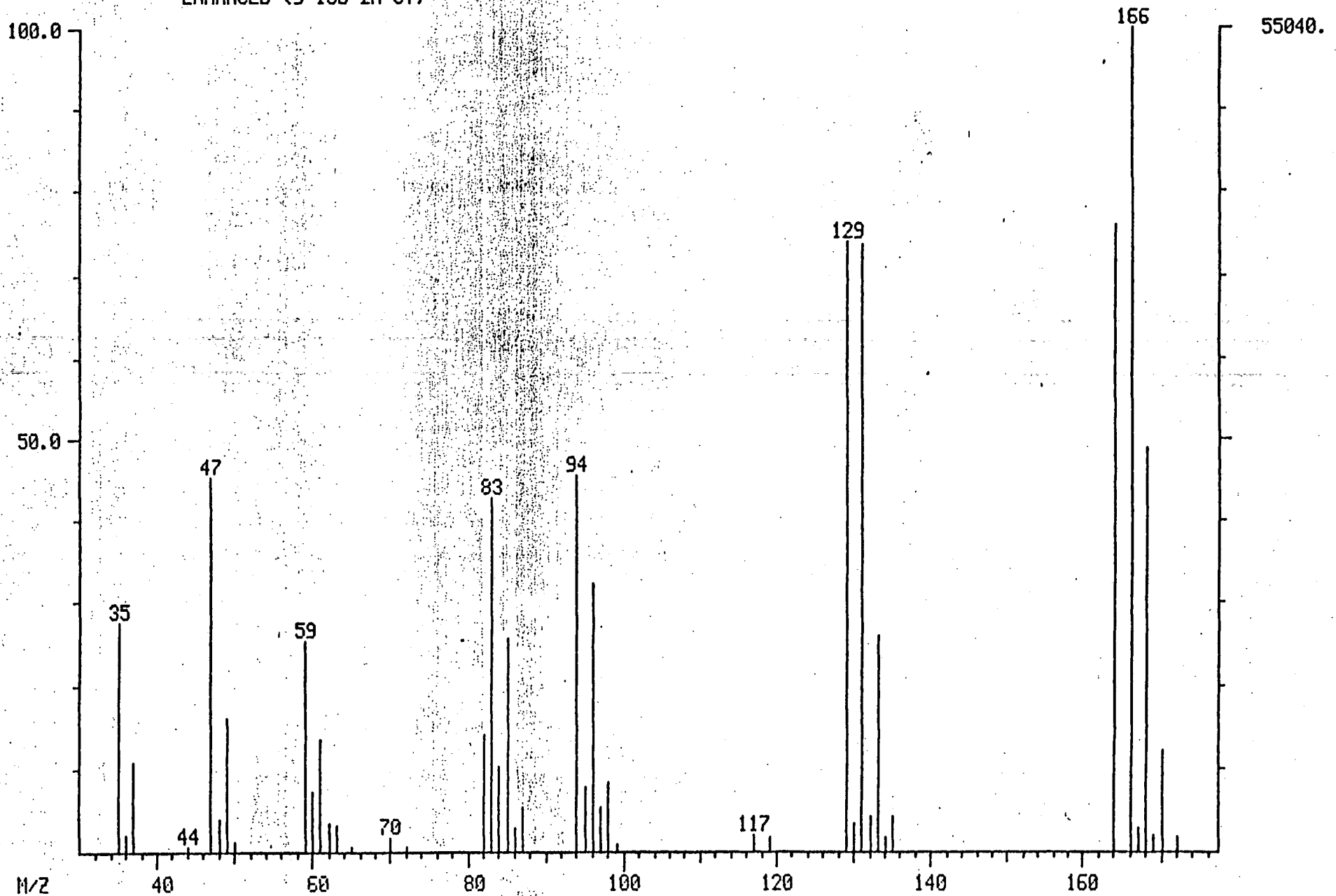
150

MID MASS SPECTRUM
10/07/85 23:21:00 + 20:39
SAMPLE: VOLATILES STANDARD
CONDS.: EI
GC TEMP: 186 DEG. C
ENHANCED (S 15B 2N 0T)

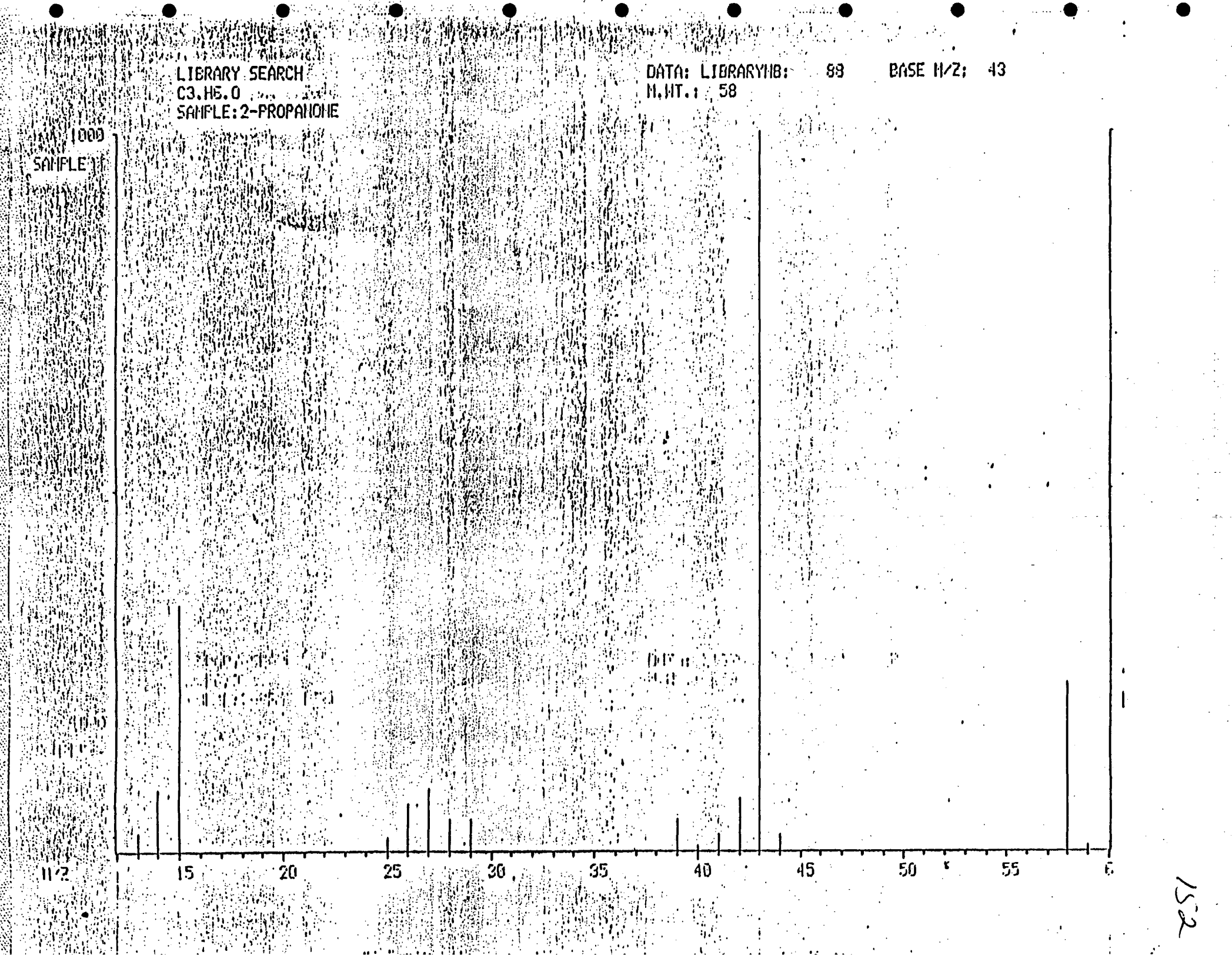
DATA: VSB107P5 #658
CALI: VSB107P5 #2

BASE M/Z: 166
RIC: 439296.

TETRACHLOROETHENE

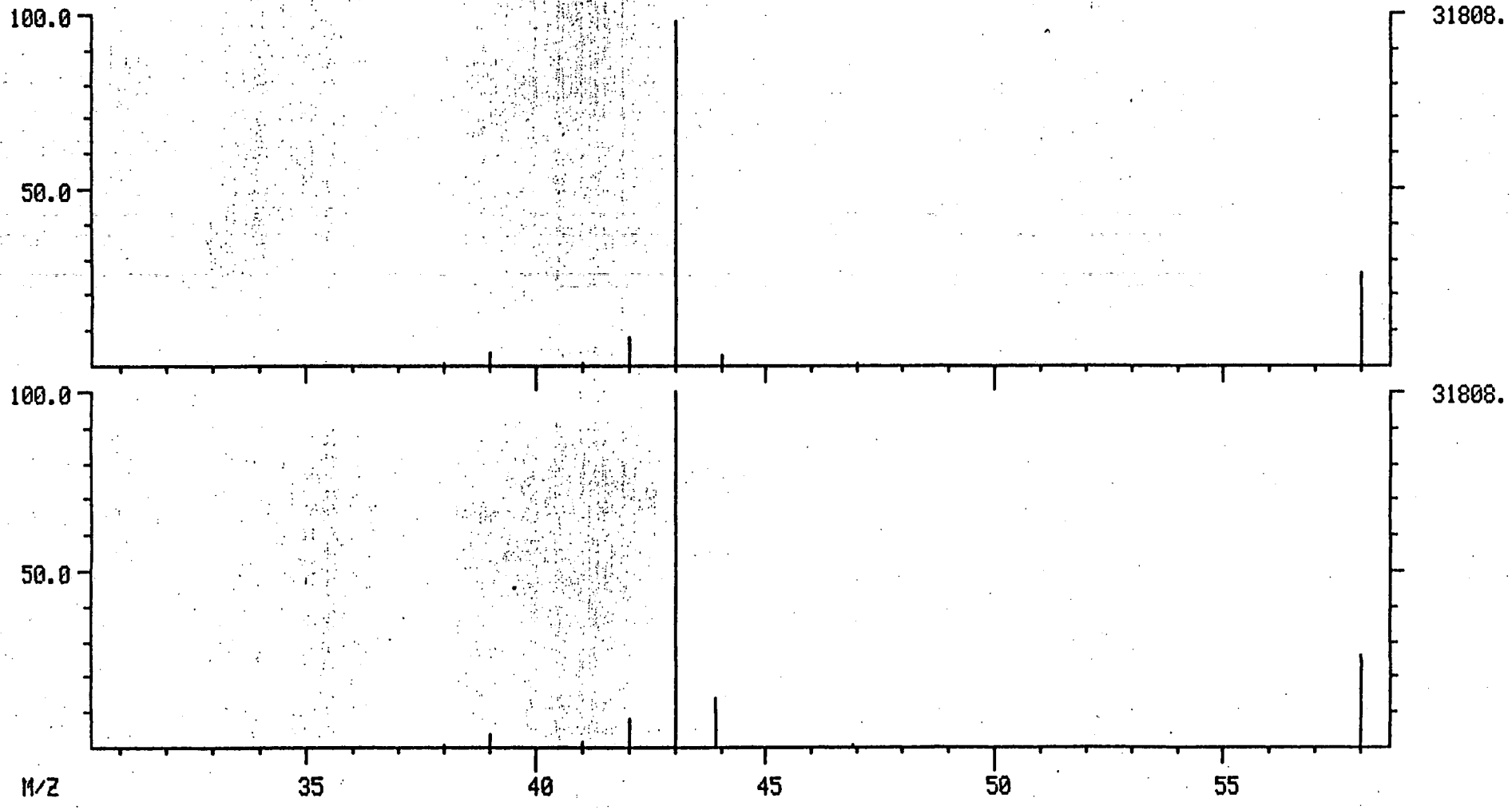


151


LIBRARY SEARCH
C3.H6.O
SAMPLE:2-PROPANONE
DATA: LIBRARYNB: 88 BASE M/Z: 43
M.WT.: 58
1000
SAMPLE
M/Z
15
20
25
30
35
40
45
50
55

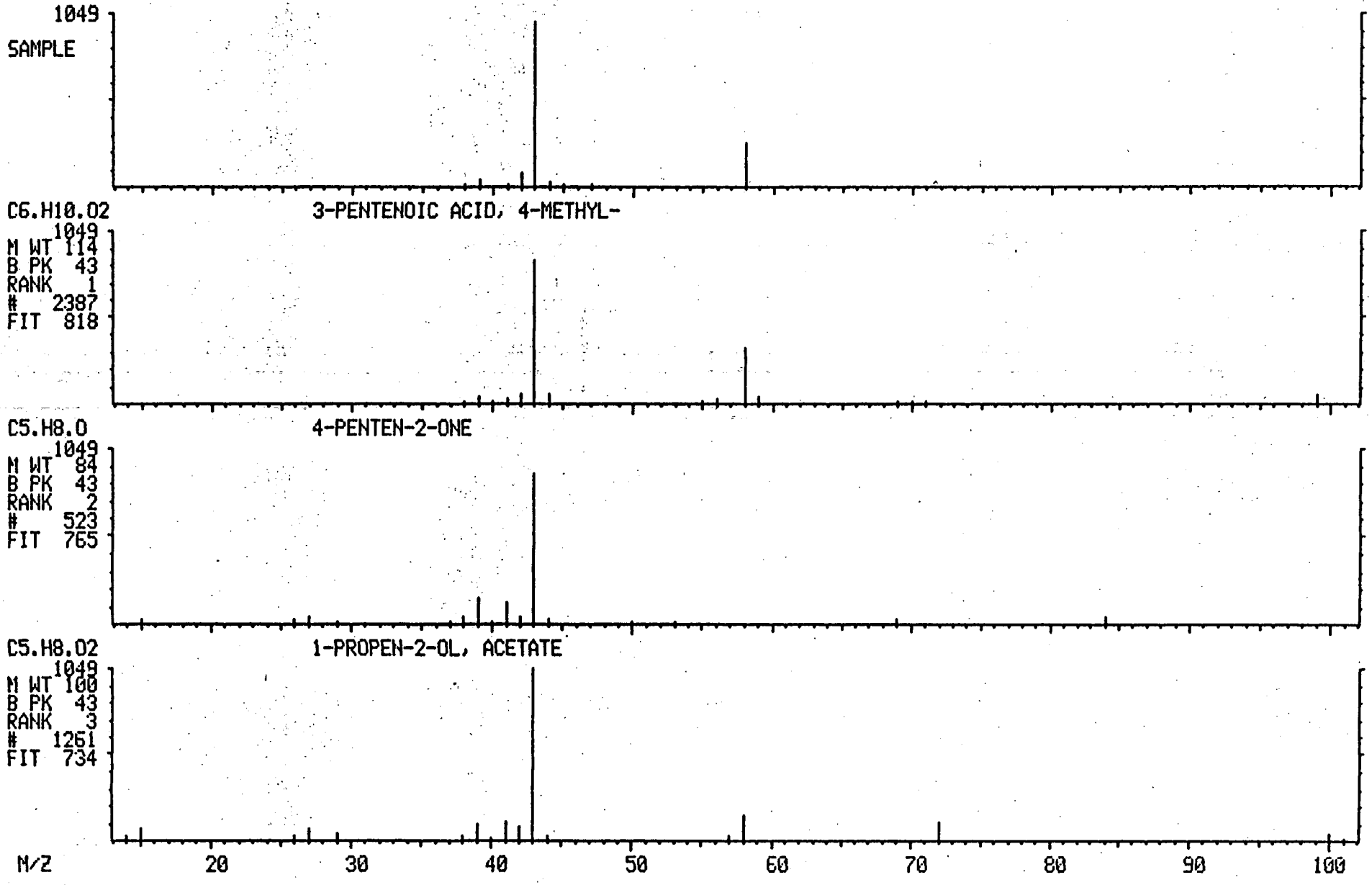
MID DUAL MASS SPECTRUM
08/19/87 11:39:00 + 5:11
SAMPLE: 14558-5
CONDS.: 5.0035 G
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V5R2 #165 BASE M/Z: 43/ 43
CALI: 14558V5R2 #2 RIC: 44927./ 49407.



MID LIBRARY SEARCH
08/19/87 11:39:00 + 5:11
SAMPLE: 14558-5
CONDS.: 5.0035 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V5R2 # 165 BASE M/Z: 43
CALI: 14558V5R2 # 2 RIC: 44927.



151

MID Library Search Data: 14558V5R2 # 165 Base m/z: 43
08/19/87 11:39:00 + 5:11 Cali: 14558V5R2 # 2 RIC: 44927.
Sample: 14558-5
Conds.: 5.0035 G
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	2387	3-PENTENOIC ACID, 4-METHYL-
2	523	4-PENTEN-2-ONE
3	1261	1-PROPEN-2-OL, ACETATE
4	1380	2,3-BUTANEDIONE, MONOOXIME
5	629	2-BUTANONE, 3-METHYL-

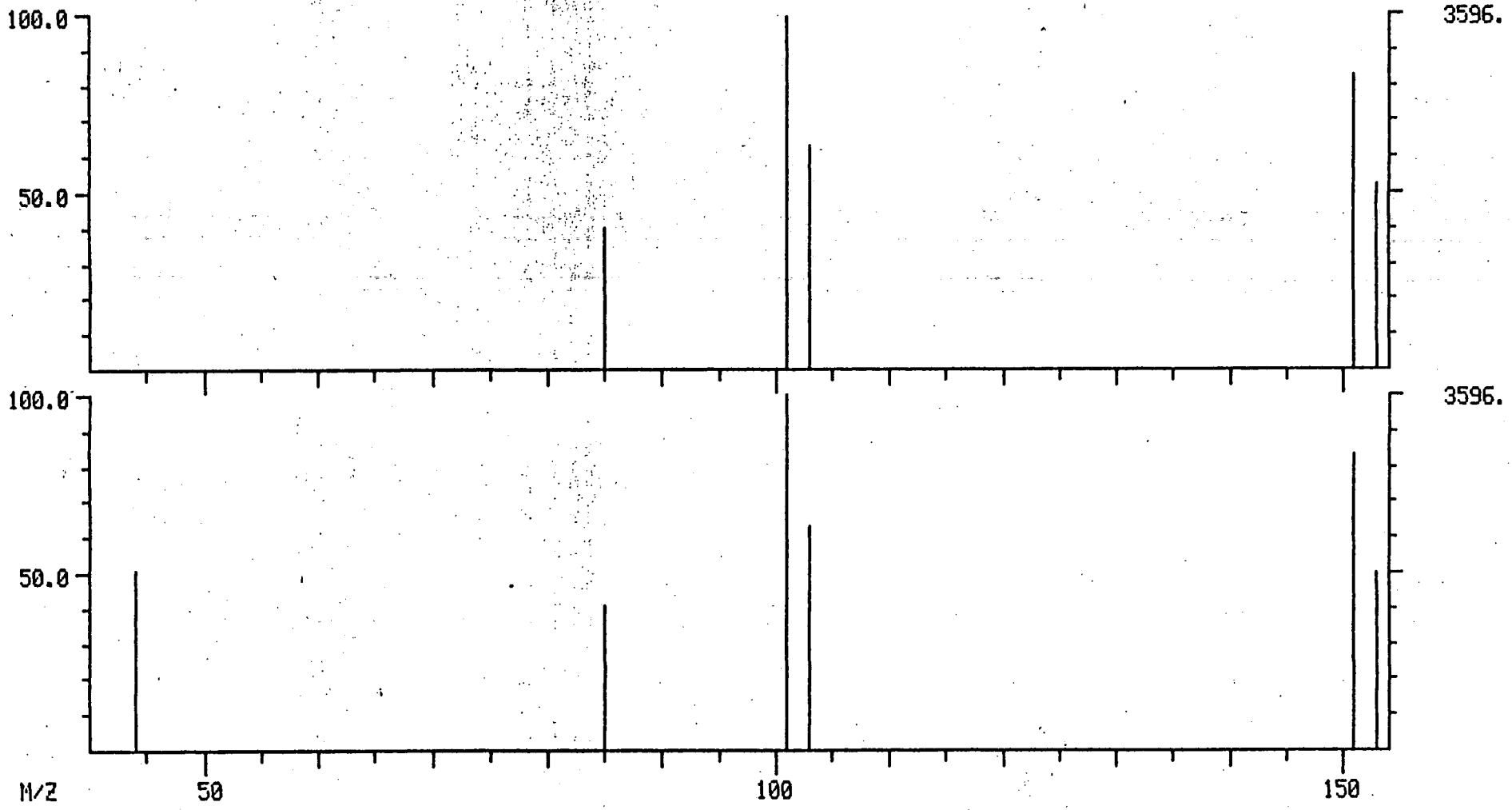
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H10.O2	114	43	812	818	976
2	C5.H8.O	84	43	581	765	691
3	C5.H8.O2	100	43	728	734	931
4	C4.H7.O2.N	101	43	678	683	873
5	C5.H10.O	86	43	504	661	686

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	504-85-8
2	___	___	___	___	13891-87-7
3	___	___	___	___	108-22-5
4	___	___	___	___	57-71-6
5	___	___	___	___	563-80-4

MID DUAL MASS SPECTRUM
08/19/87 11:39:00 + 10:04
SAMPLE: 14558-5
CONDS.: 5.0035 G
GC TEMP: 100 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V5R2 #320
CALI: 14558V5R2 #2

BASE M/Z: 101/ 101
RIC: 12127./ 13967.

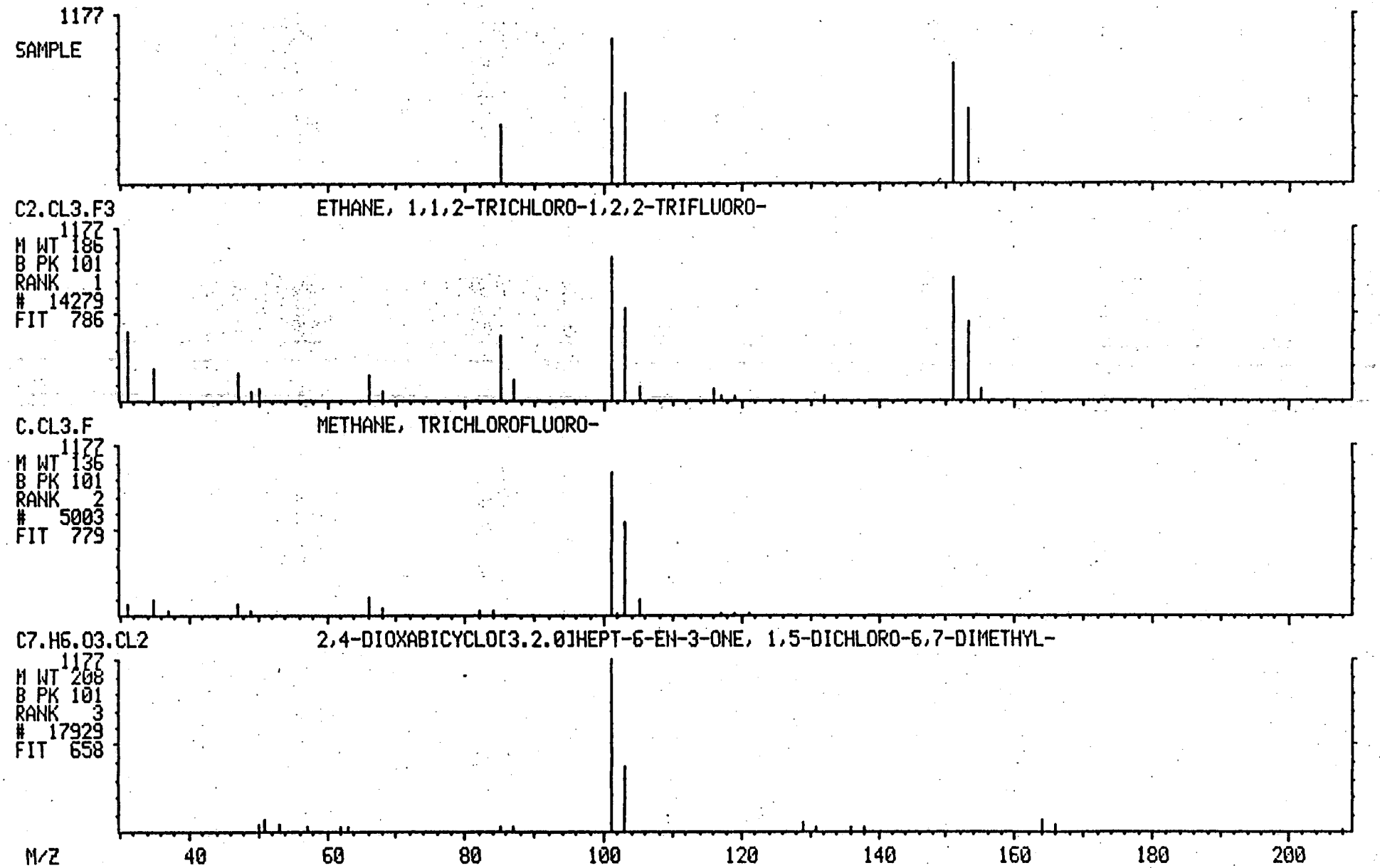


156

MID LIBRARY SEARCH
08/19/87 11:39:00 + 10:04
SAMPLE: 14558-5
CONDS.: 5.0035 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V5R2 # 320
CALI: 14558V5R2 # 2

BASE M/Z: 101
RIC: 12127.



2-57

MID Library Search Data: 14558V5R2 # 320 Base m/z: 101
08/19/87 11:39:00 + 10:04 Cali: 14558V5R2 # 2 RIC: 12127.
Sample: 14558-5
Conds.: 5.0035 G
Enhanced (S 15B 2N OT)

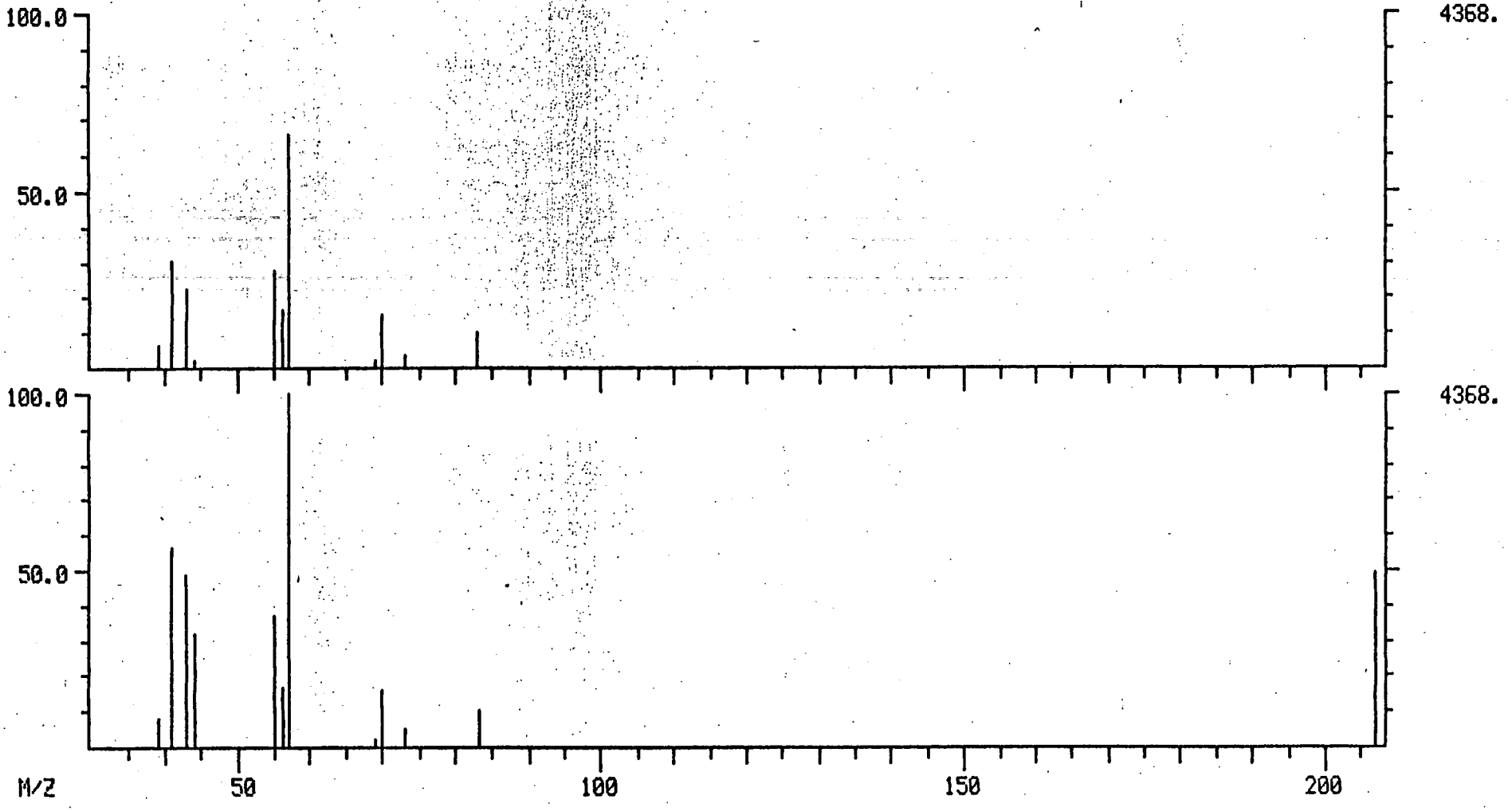
Rank	In.	Name
1	14279	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-
2	5003	METHANE, TRICHLOROFLUORO-
3	17929	2,4-DIOXABICYCLO[3.2.0]HEPT-6-EN-3-ONE, 1,5-DICHLORO-6,7-DIMETHYL-
4	1379	3H-1,2,4-TRIAZOLE-3-THIONE, 1,2-DIHYDRO-
5	29503	BUTANE, 2,2,3,3-TETRACHLORO-1,1,1,4,4,4-HEXAFLUORO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C2.CL3.F3	186	101	786	786	1000
2	C.CL3.F	136	101	319	779	409
3	C7.H6.O3.CL2	208	101	325	658	445
4	C2.H3.N3.S	101	101	146	587	249
5	C4.CL4.F6	302	151	566	566	898

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	76-13-1
2	———	———	———	———	75-69-4
3	———	———	———	———	35436-20-5
4	———	———	———	———	3179-31-5
5	———	———	———	———	375-34-8

MID DUAL MASS SPECTRUM
08/19/87 11:39:00 + 28:51
SAMPLE: 14558-5
CONDS.: 5.0035 G
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V5R2 #918 BASE M/Z: 57/ 57
CALI: 14558V5R2 #2 RIC: 8863./ 16671.

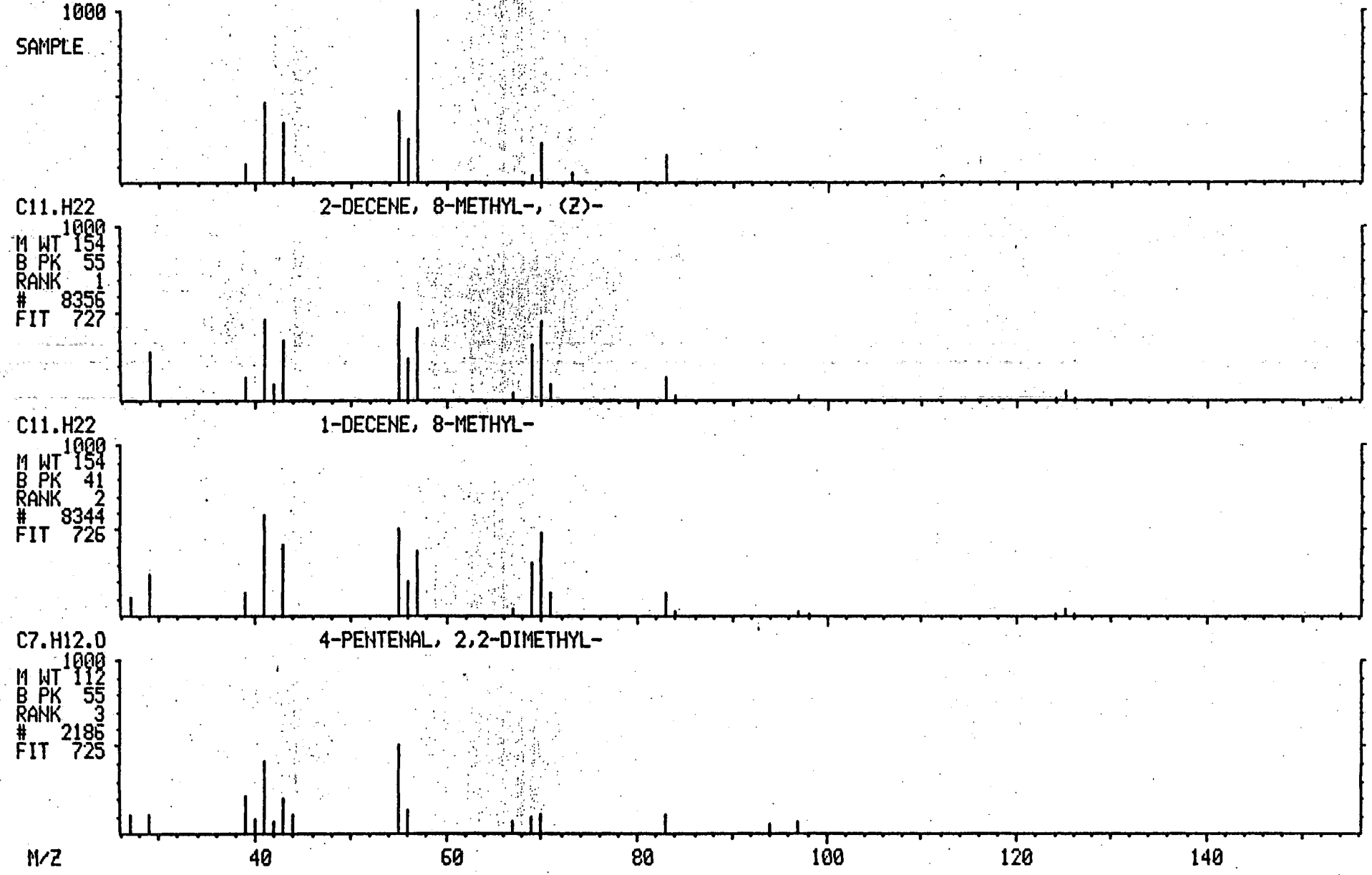


159

MID LIBRARY SEARCH
08/19/87 11:39:00 + 28:51
SAMPLE: 14558-5
CONDS.: 5.0035 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V5R2 # 918
CALI: 14558V5R2 # 2

BASE M/Z: 57
RIC: 8863.



MID Library Search Data: 14558V5R2 # 918 Base m/z: 57
08/19/87 11:39:00 + 28:51 Cali: 14558V5R2 # 2 RIC: 8863.
Sample: 14558-5
Conds.: 5.0035 G
Enhanced (S 15B 2N OT)

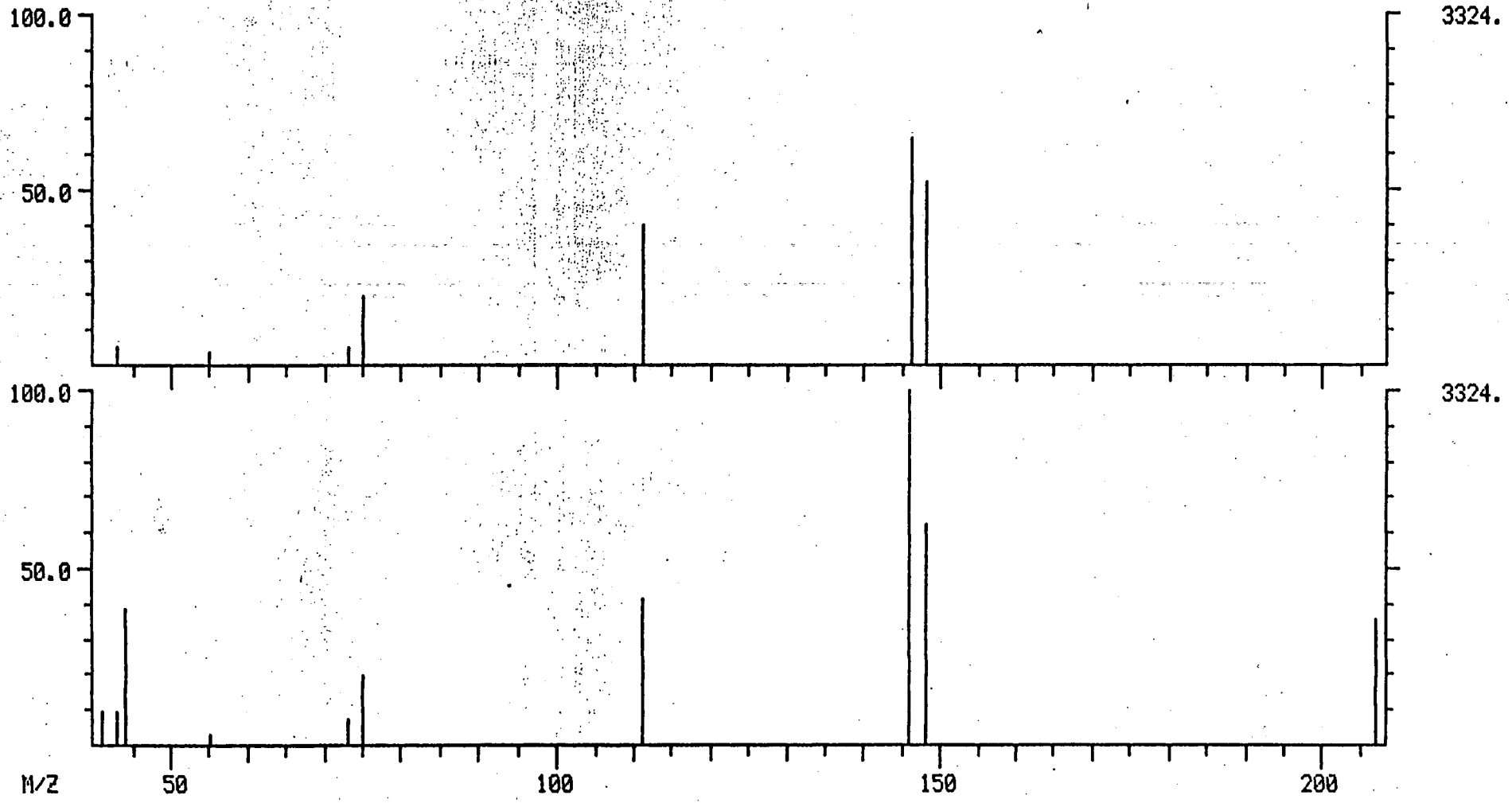
Rank	In.	Name
1	8356	2-DECENE, 8-METHYL-, (Z)-
2	8344	1-DECENE, 8-METHYL-
3	2186	4-PENTENAL, 2,2-DIMETHYL-
4	11077	3-UNDECENE, 9-METHYL-, (E)-
5	1163	1-HEXENE, 5-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H22	154	55	705	727	854
2	C11.H22	154	41	704	726	845
3	C7.H12.O	112	55	464	725	600
4	C12.H24	168	41	698	720	854
5	C7.H14	98	56	697	719	819

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	74630-25-4
2	—	—	—	—	61142-79-8
3	—	—	—	—	5497-67-6
4	—	—	—	—	74630-54-9
5	—	—	—	—	3524-73-0

MID DUAL MASS SPECTRUM
08/19/87 11:39:00 + 30:47
SAMPLE: 14558-5
CONDS.: 5.0035 G
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V5R2 #979 BASE M/Z: 146/ 146
CALI: 14558V5R2 #2 RIC: 6303./ 10815.

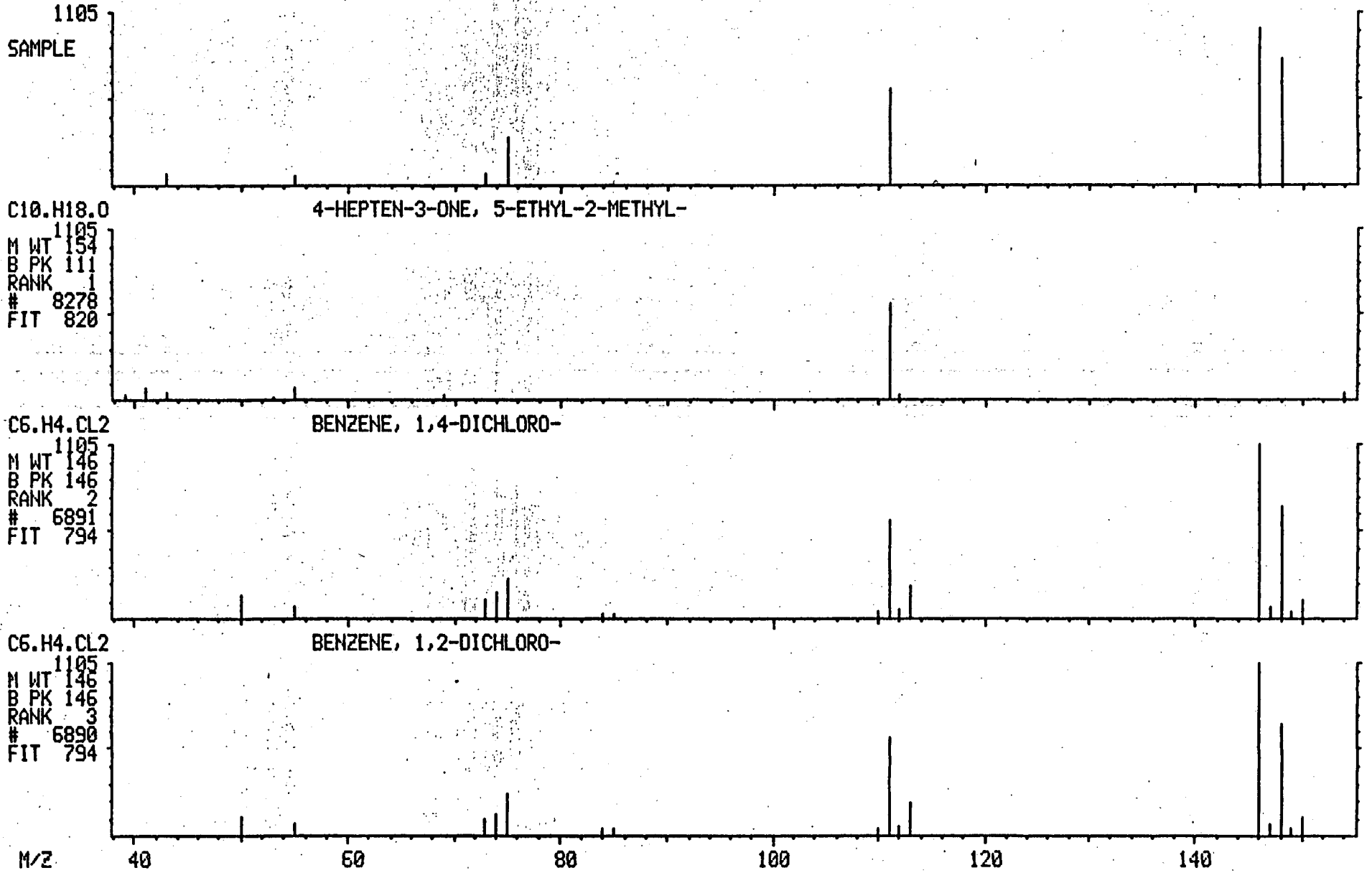


162

MID LIBRARY SEARCH
08/19/87 11:39:00 + 30:47
SAMPLE: 14558-5
CONDS.: 5.0035 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V5R2 # 979
CALI: 14558V5R2 # 2

BASE M/Z: 146
RIC: 6303.



MID Library Search
08/19/87 11:39:00 + 30:47
Sample: 14558-5
Conds.: 5.0035 G
Enhanced (S 15B 2N OT)

Data: 14558V5R2 # 979
Cali: 14558V5R2 # 2

Base m/z: 146
RIC: 6303.

Rank	In.	Name
1	8278	4-HEPTEN-3-ONE, 5-ETHYL-2-METHYL-
2	6891	BENZENE, 1,4-DICHLORO-
3	6890	BENZENE, 1,2-DICHLORO-
4	6892	BENZENE, 1,3-DICHLORO-
5	2042	OXAZOLE, TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H18.O	154	111	167	820	203
2	C6.H4.CL2	146	146	786	794	987
3	C6.H4.CL2	146	146	787	794	987
4	C6.H4.CL2	146	146	787	794	987
5	C6.H9.O.N	111	111	139	682	204

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	49833-96-7
2	———	———	———	———	106-46-7
3	———	———	———	———	95-50-1
4	———	———	———	———	541-73-1
5	———	———	———	———	20662-84-4

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0811750-RT

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-6R3

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 14558V6R3

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 30 Date Analyzed: 08/19/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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	11	X
67-64-1	Acetone	14	U
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	14	U
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	20	
10061-02-6	Trans-1,3-Dichloropropene	7	U
110-75-8	2-Chloroethylvinylether	14	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	14	U
108-88-3	Toluene	220	
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	63	
100-42-5	Styrene	7	U
	Total Xylenes	510	EX

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0811750-R3

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-6R3

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 14558V6R3

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 30 Date Analyzed: 08/19/87

Column (pack/cap) PACKED Dilution Factor: 1.00

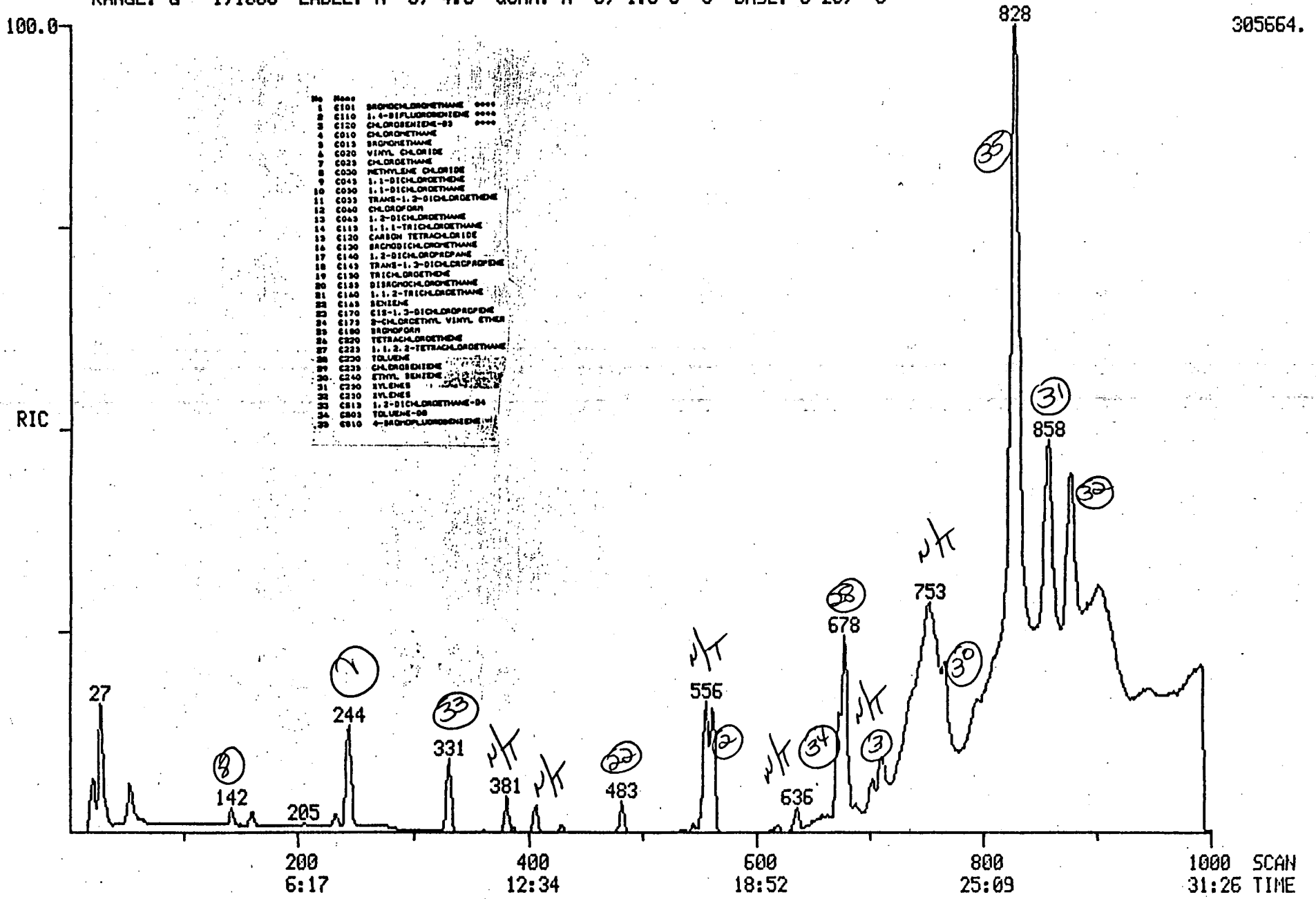
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

MIDRIC
08/19/87 14:53:00
SAMPLE: 14558-6
CONDS.: 5.2647 G
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V6R3 #1
CALI: 14558V9R #2

SCANS 1 TO 1000



16.7

Quantitation Report File: 14558V6R3

Data: 14558V6R3.TI
08/19/87 14:53:00
Sample: 14558-6
Conds.: 5.2647 G
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

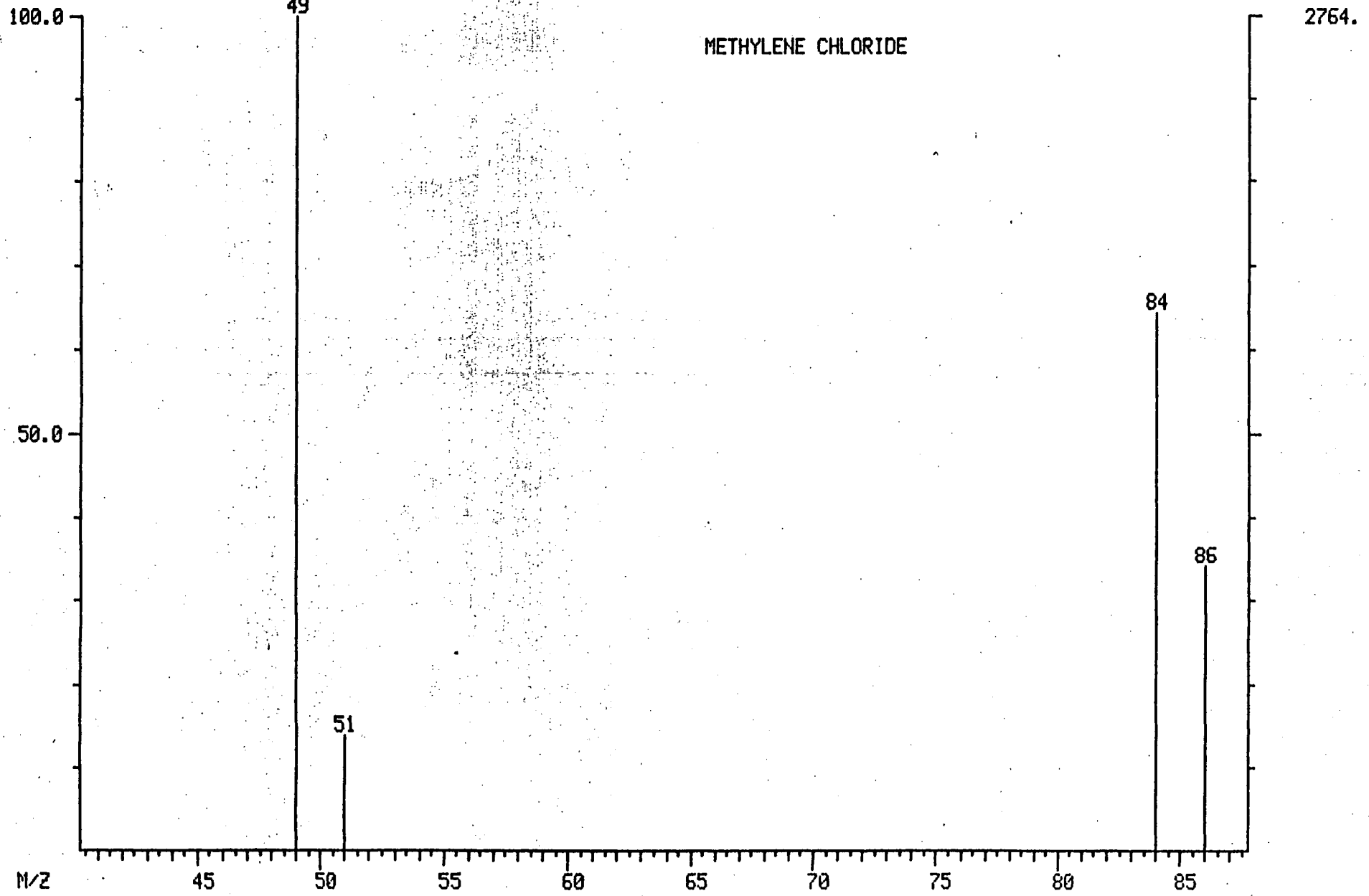
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	244	7:40	1	1.000	A BB	30837.	50.000 UG/L	5.44
2	114	562	17:40	2	1.000	A BB	123637.	50.000 UG/L	5.44
3	117	710	22:19	3	1.000	A BB	35804.	50.000 UG/L	5.44
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	84	142	4:28	1	0.582	A BB	6287.	7.923 UG/L	0.86
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	78	483	15:11	2	0.859	A BB	31147.	14.505 UG/L	1.58
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	92	678	21:19	3	0.955	A BB	91012.	161.427 UG/L	17.56
29	NOT FOUND								
30	106	767	24:07	3	1.080	A BB	16688.	46.174 UG/L	5.02
31	106	858	26:58	3	1.208	A BB	83599.	179.332 UG/L	19.51
32	106	877	27:34	3	1.235	A BB	92532.	198.389 UG/L	21.58
33	65	331	10:24	1	1.357	A BB	48458.	44.667 UG/L	4.86
34	98	672	21:07	3	0.946	A BB	76774.	94.427 UG/L	10.27
35	95	825	25:56	3	1.162	A BB	15516.	22.324 UG/L	2.43

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:17	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19		0.171			50.00		0.461	
5	1:53		0.245			50.00		1.133	
6	2:20		0.302			50.00		1.084	
7	2:55		0.380			50.00		0.830	
8	4:35	0.97	0.596	0.98	7.92	50.00	0.204	1.287	0.16
9	7:12		0.935			50.00		1.284	
10	8:27		1.098			50.00		2.706	
11	9:11		1.192			50.00		1.419	
12	9:50		1.278			50.00		3.374	
13	10:30		1.363			50.00		2.167	
14	11:42		0.663			50.00		0.498	
15	12:02		0.683			50.00		0.334	
16	12:44		0.722			50.00		0.600	
17	13:56		0.790			50.00		0.361	
18	14:13		0.806			50.00		0.636	
19	14:45		0.836			50.00		0.484	
20	15:26		0.875			50.00		0.491	
21	15:30		0.879			50.00		0.374	
22	15:09	1.00	0.859	1.00	14.51	50.00	0.252	0.868	0.29
23	15:28		0.877			50.00		0.272	
24	16:28		0.934			50.00		0.235	
25	18:01		1.021			50.00		0.411	
26	20:09		0.904			50.00		0.572	
27	20:13		0.907			50.00		0.896	
28	21:17	1.00	0.955	1.00	161.43	50.00	2.542	0.787	3.23
29	22:25		1.006			50.00		1.103	
30	24:07	1.00	1.082	1.00	46.17	50.00	0.466	0.505	0.92
31	27:02	1.00	1.213	1.00	179.33	50.00	2.335	0.651	3.59
32	27:38	1.00	1.240	1.00	198.39	50.00	2.584	0.651	3.97
33	10:24	1.00	1.351	1.00	44.67	50.00	1.571	1.759	0.89
34	21:07	1.00	0.948	1.00	94.43	50.00	2.144	1.135	1.89
35	25:58	1.00	1.165	1.00	22.32	50.00	0.433	0.971	0.45

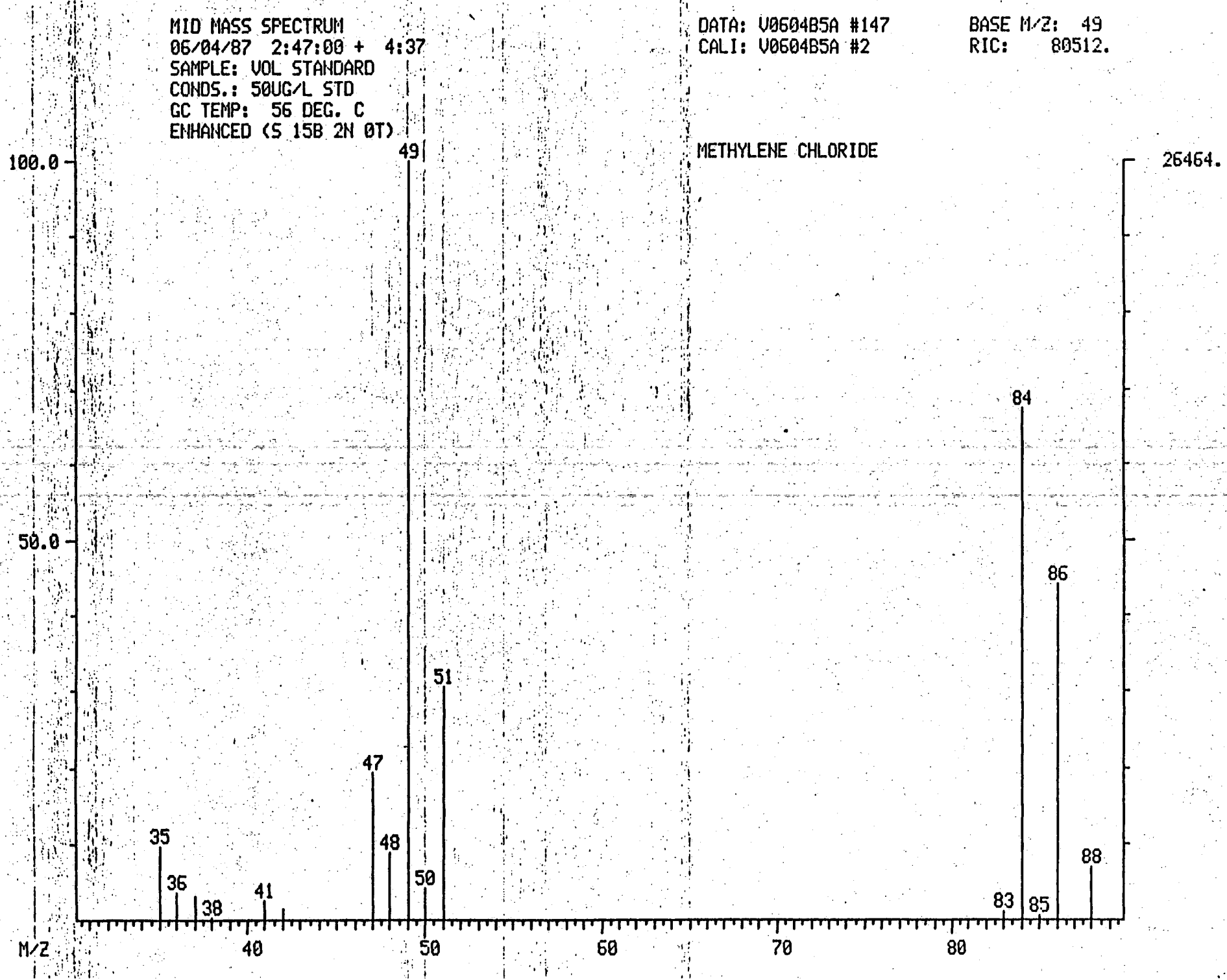
MID MASS SPECTRUM
08/19/87 14:53:00 + 4:28
SAMPLE: 14558-6
CONDS.: 5.2647 G
GC TEMP: 55 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 #142
CALI: 14558V6R3 #2

BASE M/Z: 49
RIC: 5864.



141

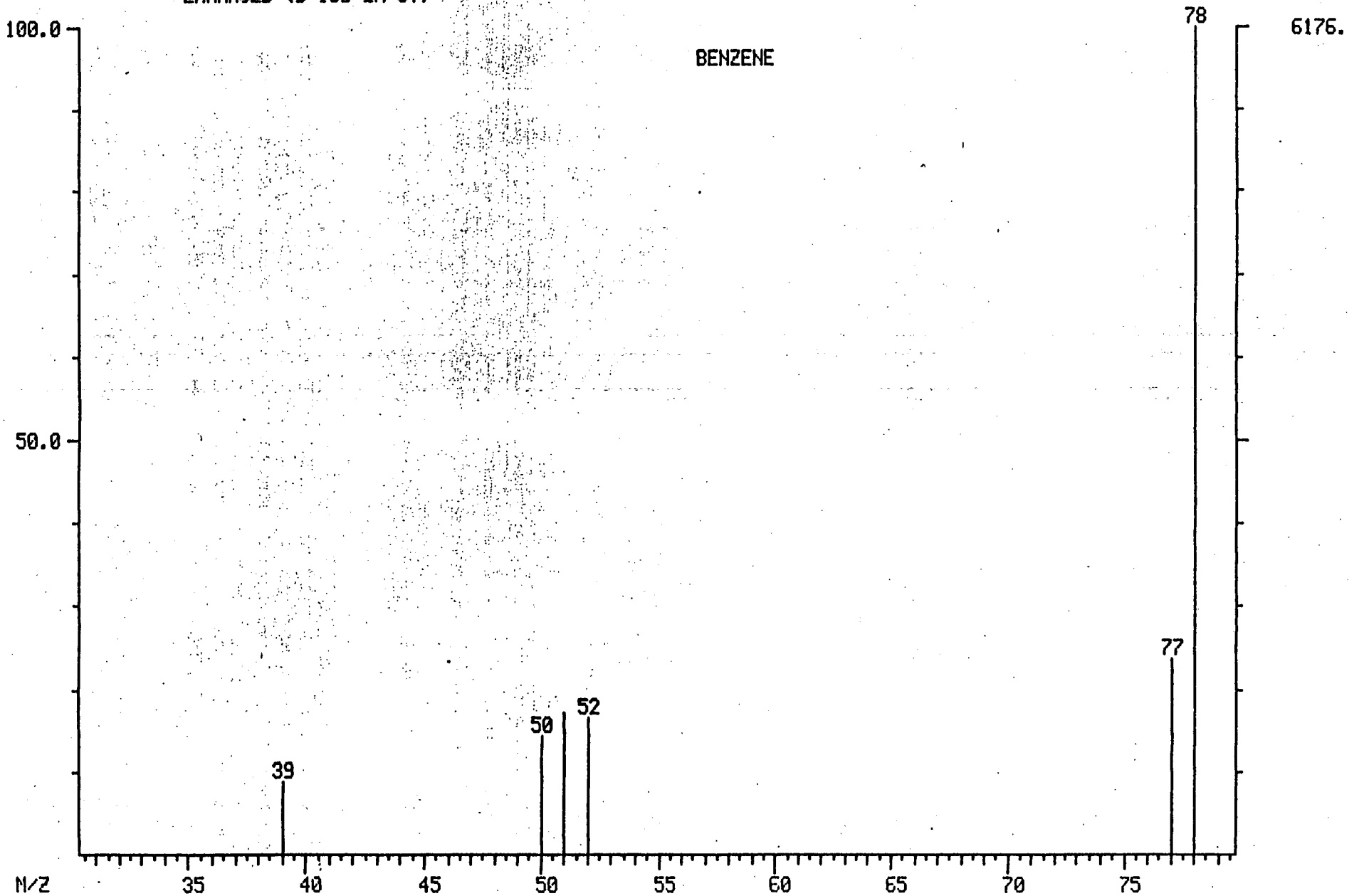

MID MASS SPECTRUM
06/04/87 2:47:00 + 4:37
SAMPLE: VOL STANDARD
CONDS.: 50UG/L STD
GC TEMP: 56 DEG. C
ENHANCED (S 15B 2N 0T)
DATA: V0604B5A #147
CALI: V0604B5A #2
BASE M/Z: 49
RIC: 80512.
METHYLENE CHLORIDE
26464.
100.0
50.0
M/Z
40
50
60
70
80
35
36
38
41
47
48
49
50
51
83
84
85
86
88

172

MID MASS SPECTRUM
08/19/87 14:53:00 + 15:11
SAMPLE: 14558-6
CONDS.: 5.2647 G
GC TEMP: 141 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 #483
CALI: 14558V6R3 #2

BASE M/Z: 78
RIC: 11168.

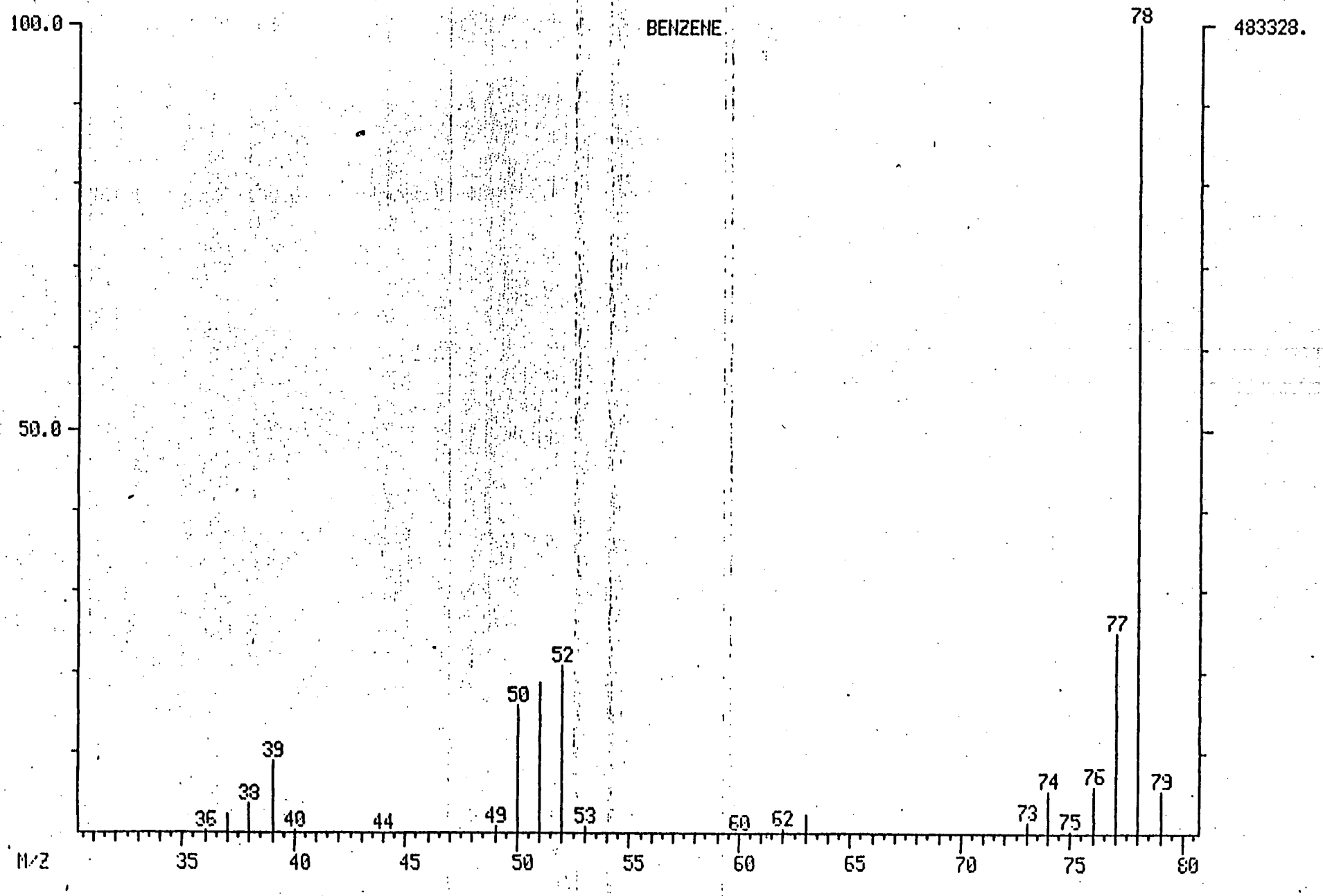


123

MID MASS SPECTRUM
02/21/87 11:08:00 + 15:02
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 139 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #479
CALI: VB0221A30 #2

BASE M/Z: 78
RIC: 1050620.

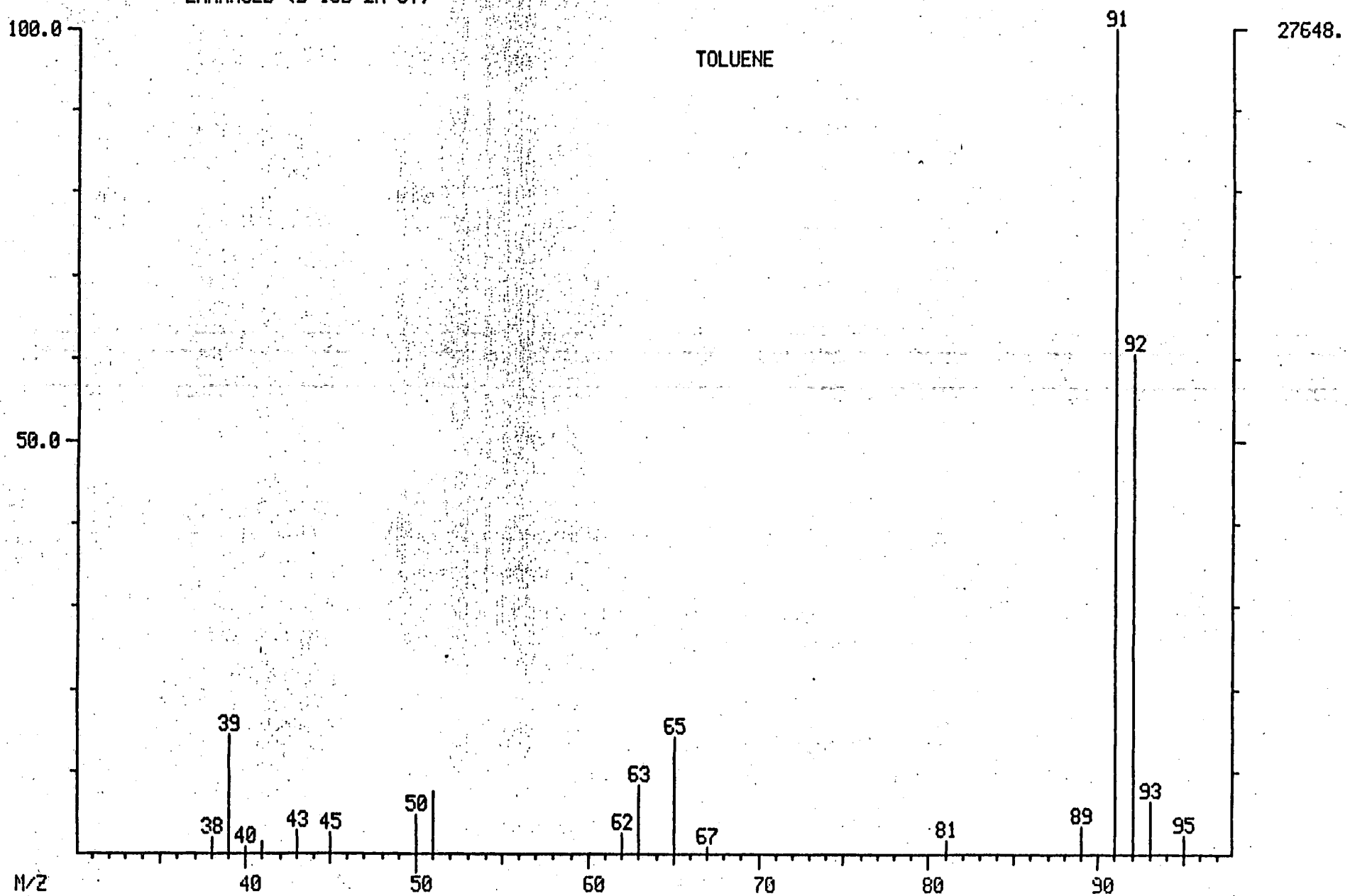


174

MID MASS SPECTRUM
08/19/87 14:53:00 + 21:19
SAMPLE: 14558-6
CONDS.: 5.2647 G
GC TEMP: 190 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 #678
CALI: 14558V6R3 #2

BASE M/Z: 91
RIC: 65216.



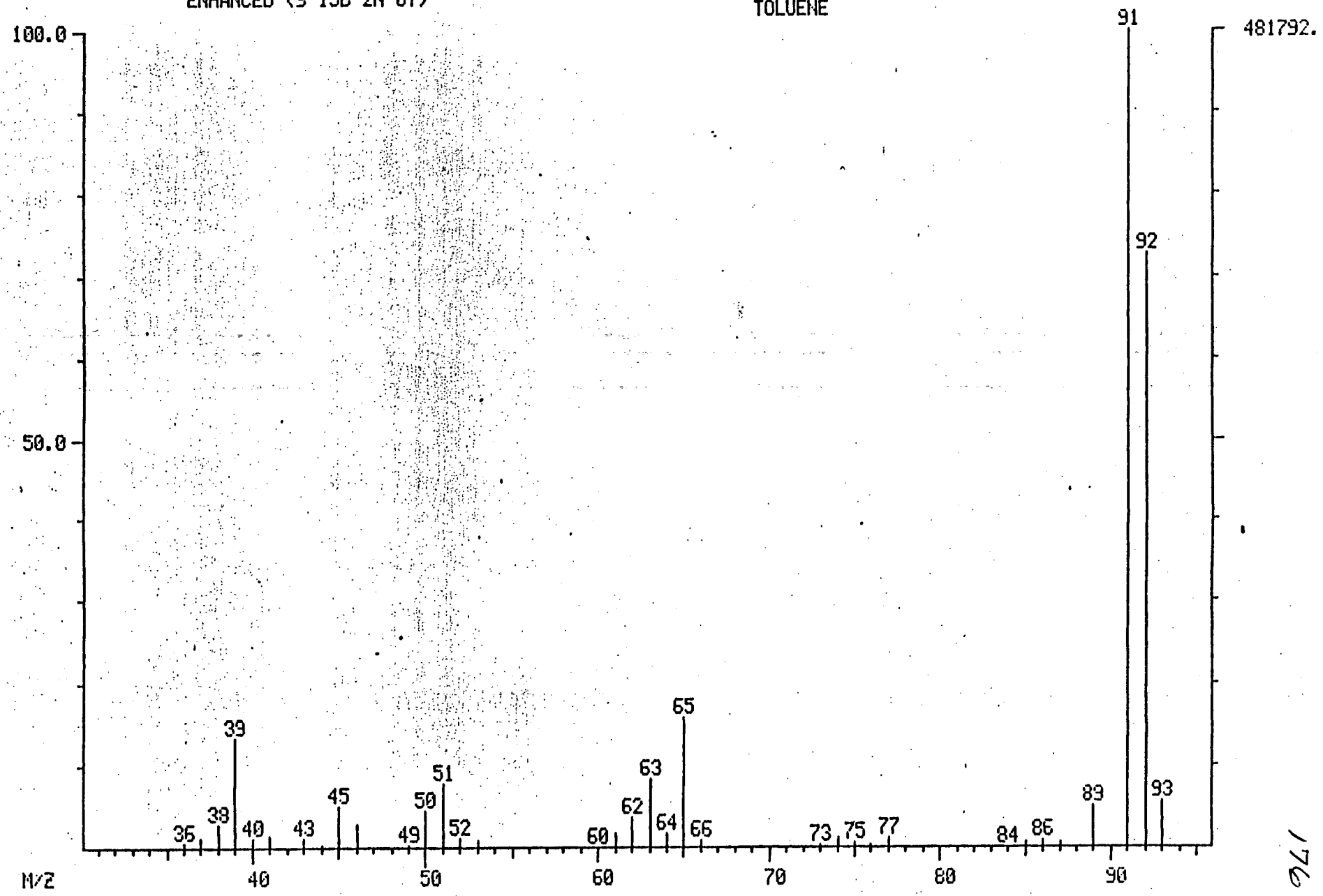
175

MID MASS SPECTRUM
02/21/87 11:08:00 + 21:13
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 189 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #676
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 1275900.

TOLUENE

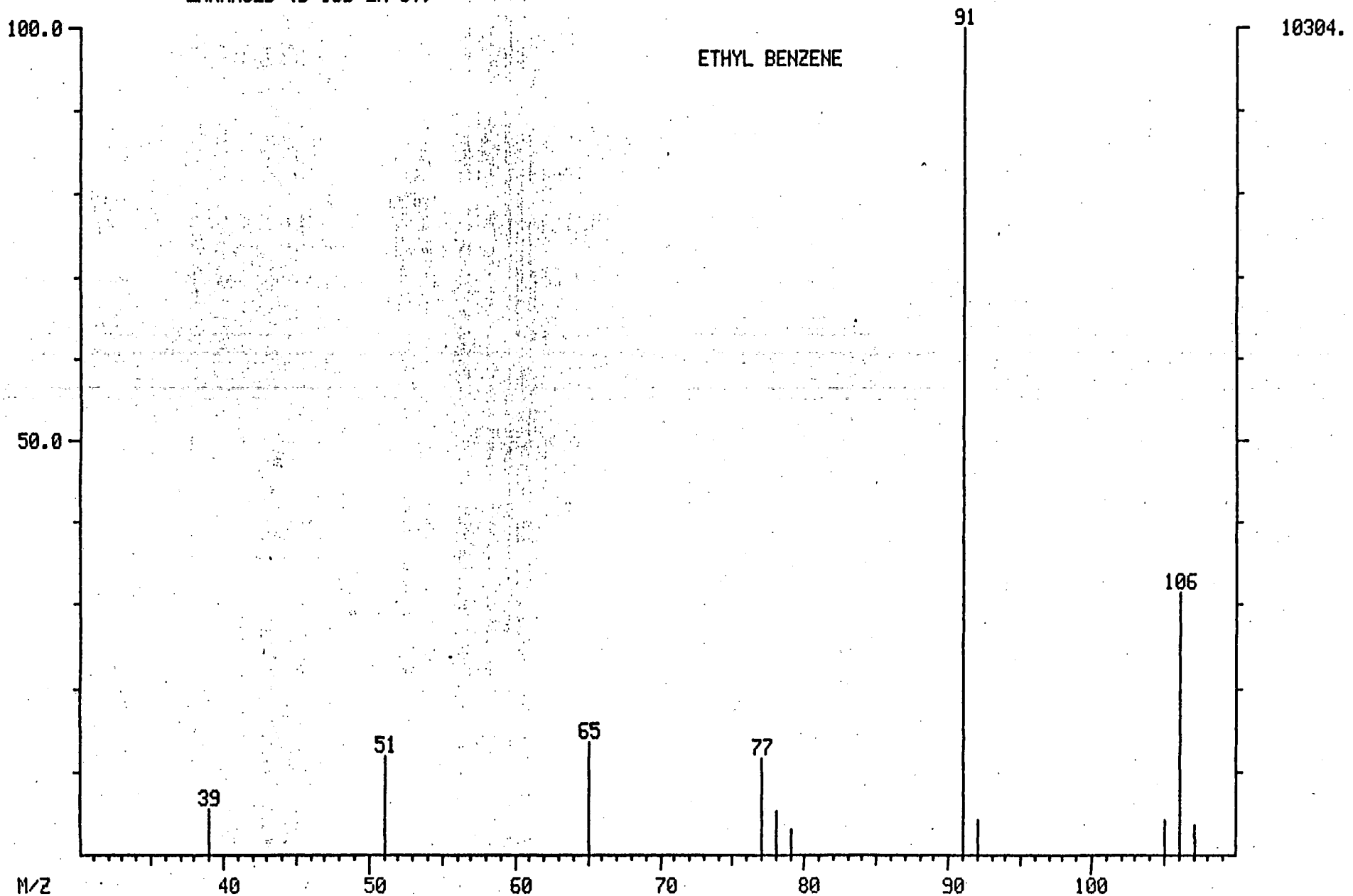


176

MID MASS SPECTRUM
08/19/87 14:53:00 + 24:07
SAMPLE: 14558-6
CONDS.: 5.2647 G
GC TEMP: 213 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 #767
CALI: 14558V6R3 #2

BASE M/Z: 91
RIC: 20000.



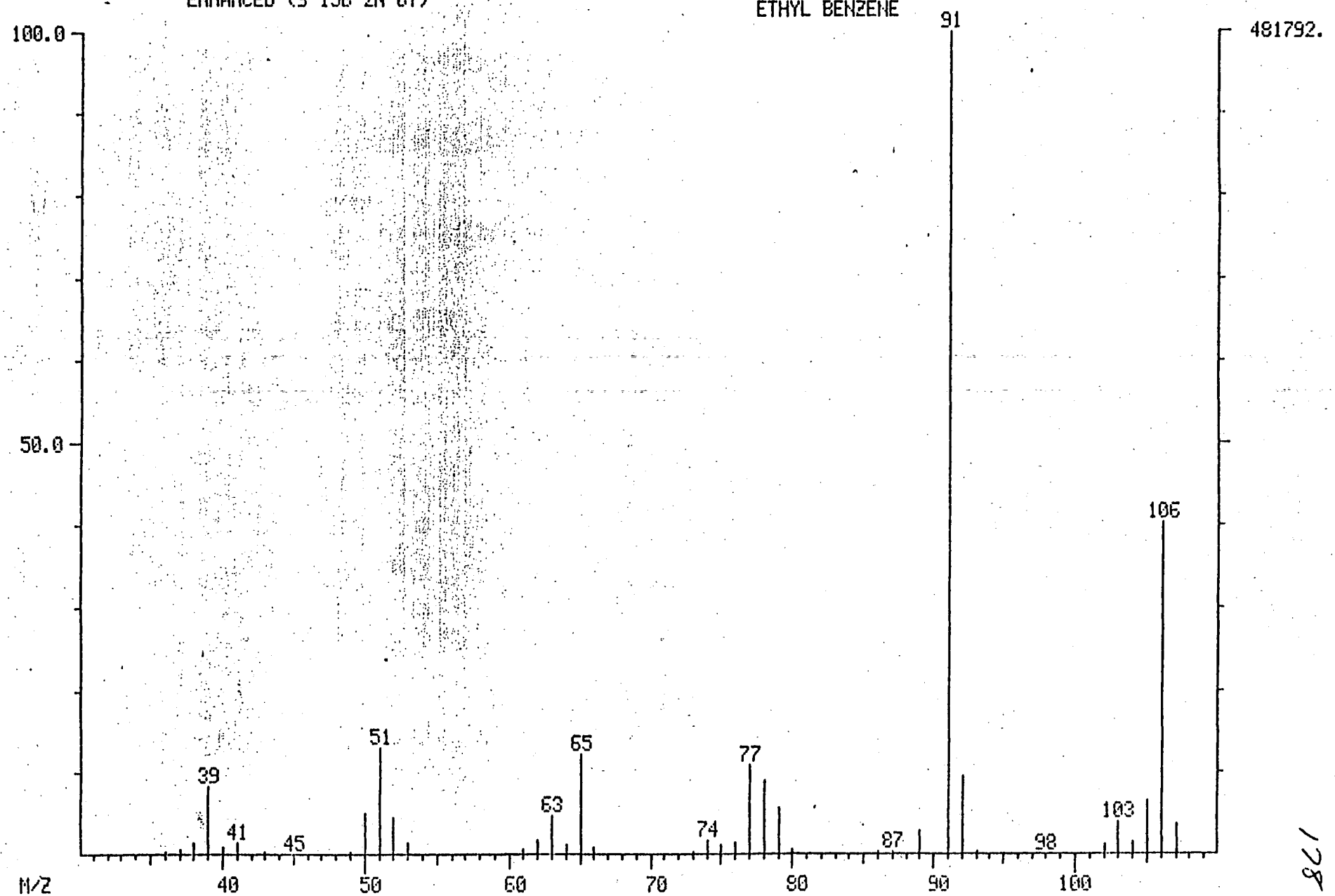
177

MID MASS SPECTRUM
02/21/87 11:08:00 + 24:00
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 212 DEG. C
ENHANCED (S 15B 2N 0T)

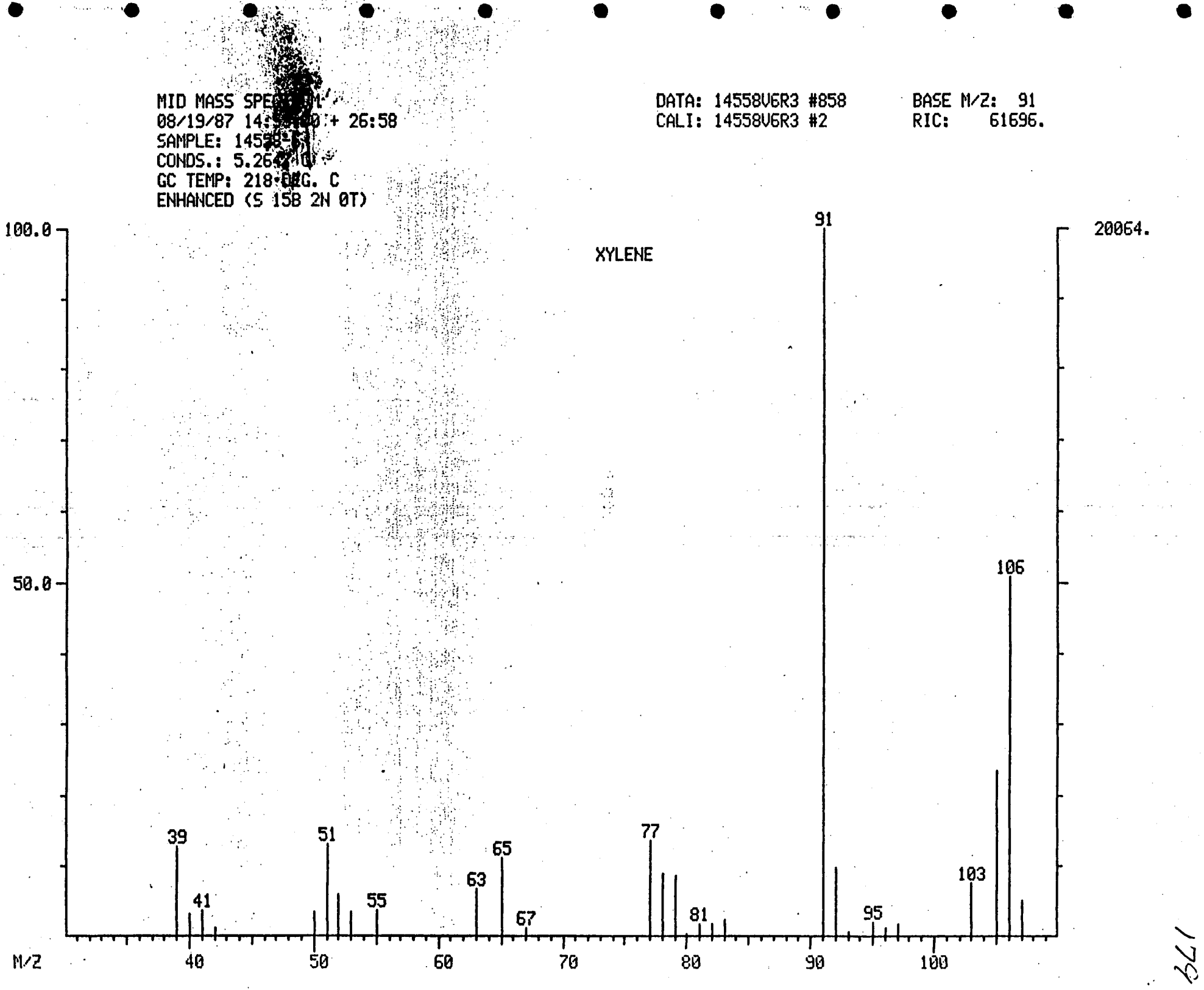
DATA: VB0221A30 #765
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 1236990.

ETHYL BENZENE



178

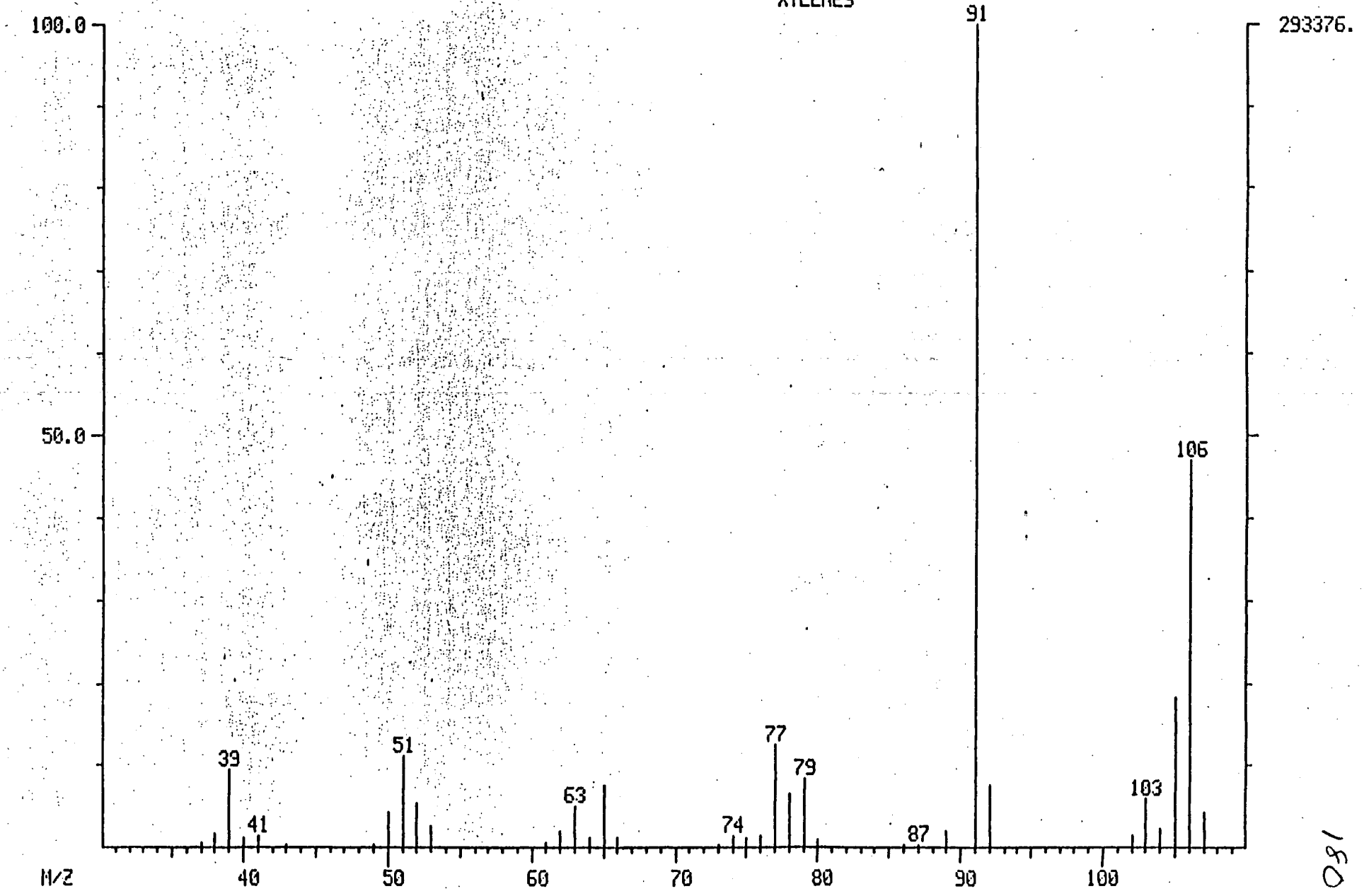

MID MASS SPE
08/19/87 14:
+ 26:58
SAMPLE: 14558
CONDS.: 5.26
GC TEMP: 218
G. C
ENHANCED (S 15B 2N 0T)
DATA: 14558V6R3 #858
CALI: 14558V6R3 #2
BASE M/Z: 91
RIC: 61696.
XYLENE
100.0
50.0
20064.
91
106
39
41
51
55
63
65
67
77
81
95
103
M/Z
40
50
60
70
80
90
100

MID MASS SPECTRUM
02/21/87 11:08:00 + 27:26
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #874
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 808960.

XYLENES

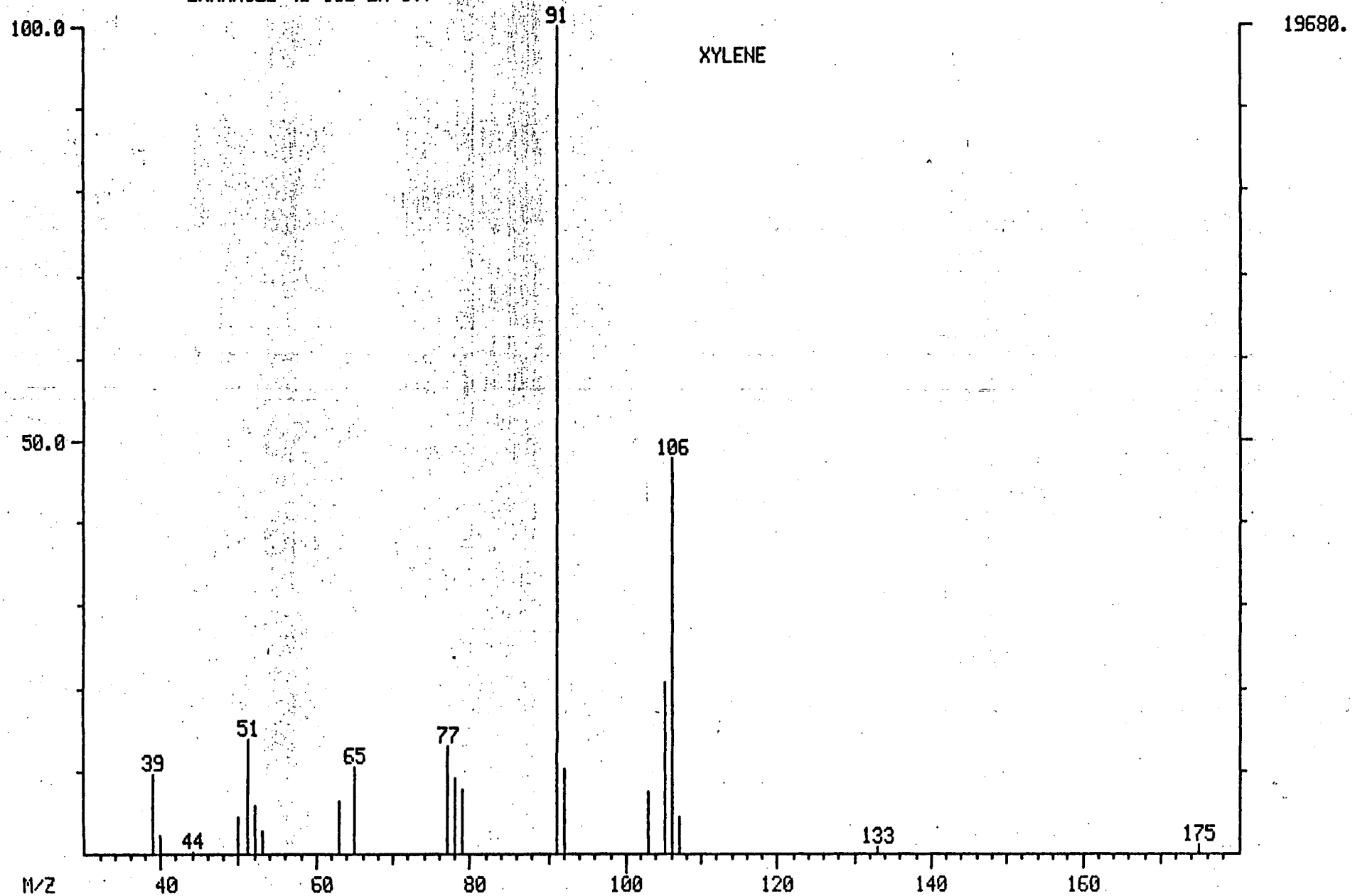


091

MID MASS SPECTRUM
08/19/87 14:53:00 + 27:34
SAMPLE: 14558-6
CONDS.: 5.2647 G
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 #877
CALI: 14558V6R3 #2

BASE M/Z: 91
RIC: 54720.



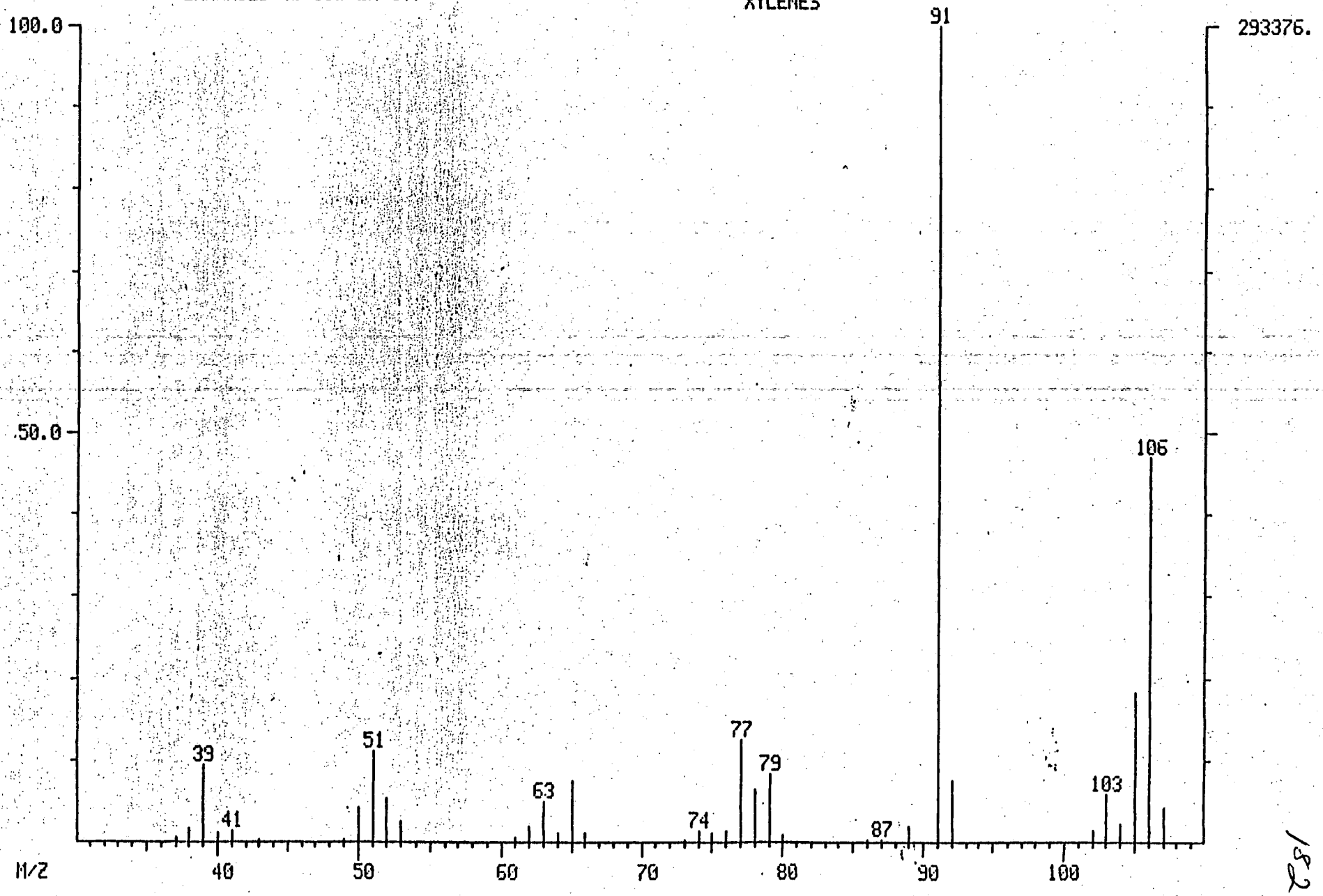
181

MID MASS SPECTRUM
02/21/87 11:08:00 + 27:26
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #874
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 808960.

XYLENES

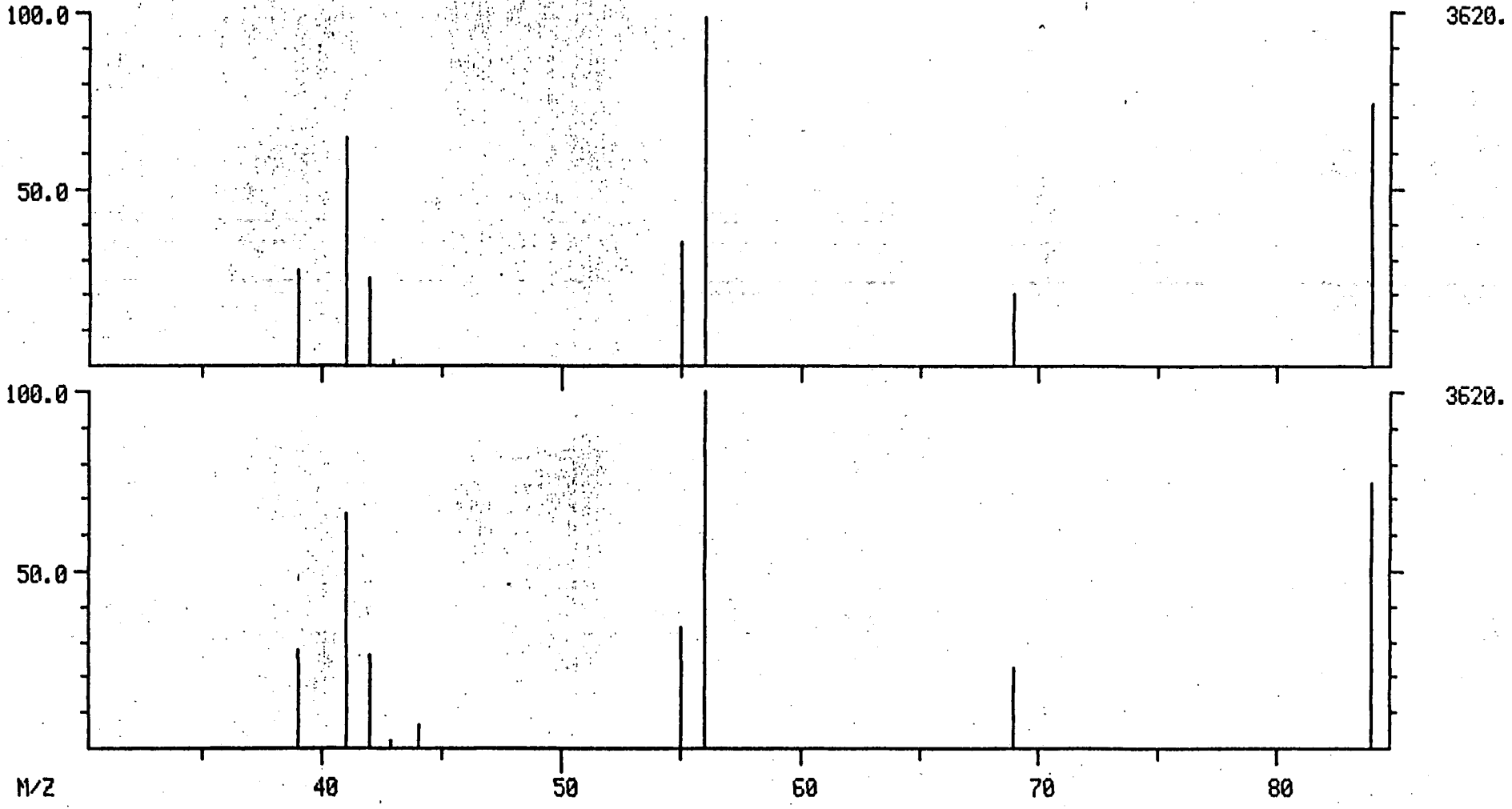


1 of 2

MID DUAL MASS SPECTRUM
08/19/87 14:53:00 + 11:59
SAMPLE: 14558-6
CONDS.: 5.2647 G
GC TEMP: 115 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 #381
CALI: 14558V6R3 #2

BASE M/Z: 56/ 56
RIC: 12495./ 13039.

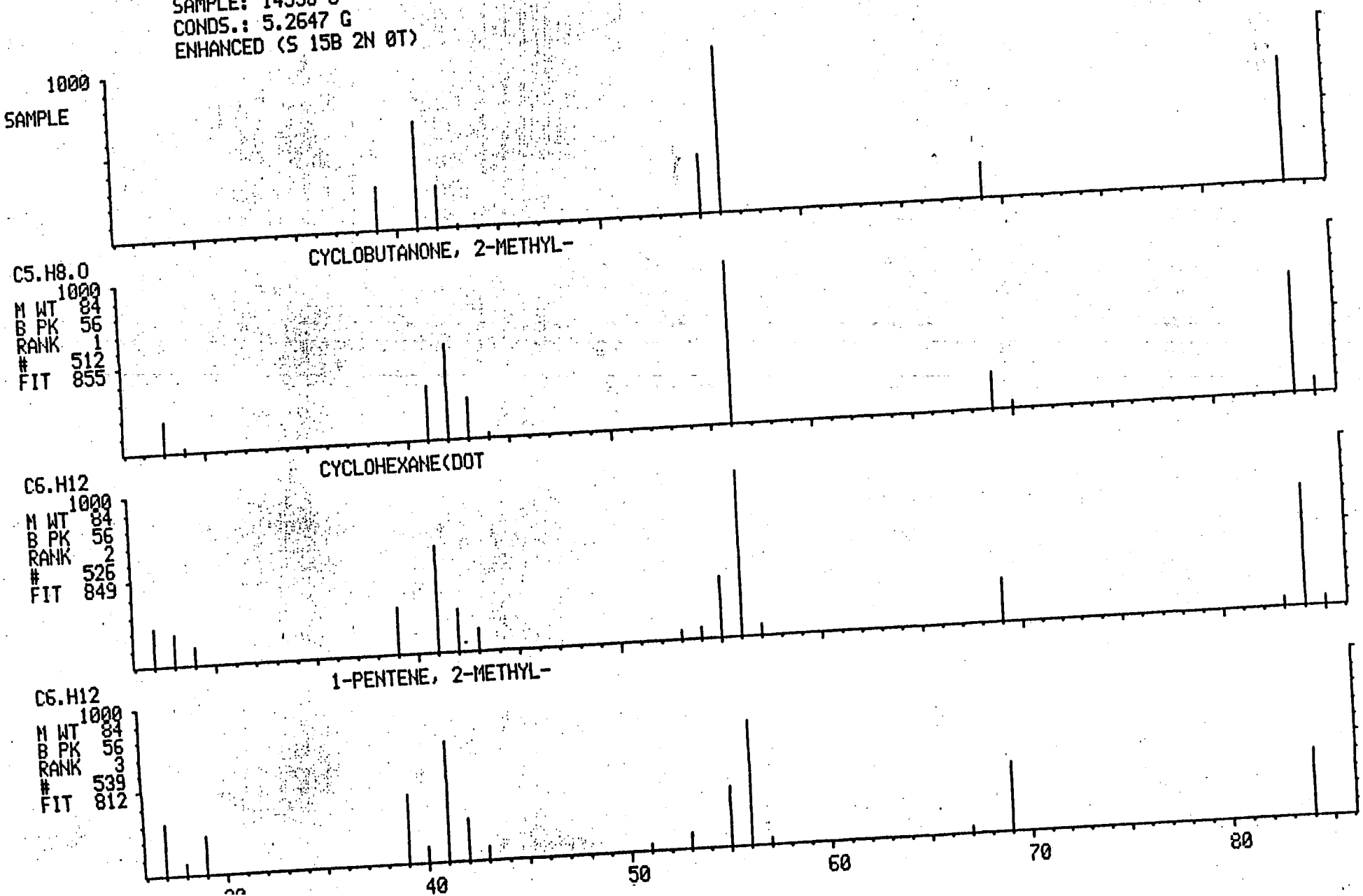


183

MID LIBRARY SEARCH
08/19/87 14:53:00 + 11:59
SAMPLE: 14558-6
CONDS.: 5.2647 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 # 381
CALI: 14558V6R3 # 2

BASE M/Z: 56
RIC: 12495.



181

MID Library Search Data: 14558V6R3 # 381 Base m/z: 56
08/19/87 14:53:00 + 11:59 Cali: 14558V6R3 # 2 RIC: 12495.
Sample: 14558-6
Conds.: 5.2647 G
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	512	CYCLOBUTANONE, 2-METHYL-
2	526	CYCLOHEXANE(DOT
3	539	1-PENTENE, 2-METHYL-
4	530	1-HEXENE
5	547	3-HEXENE, (Z)-

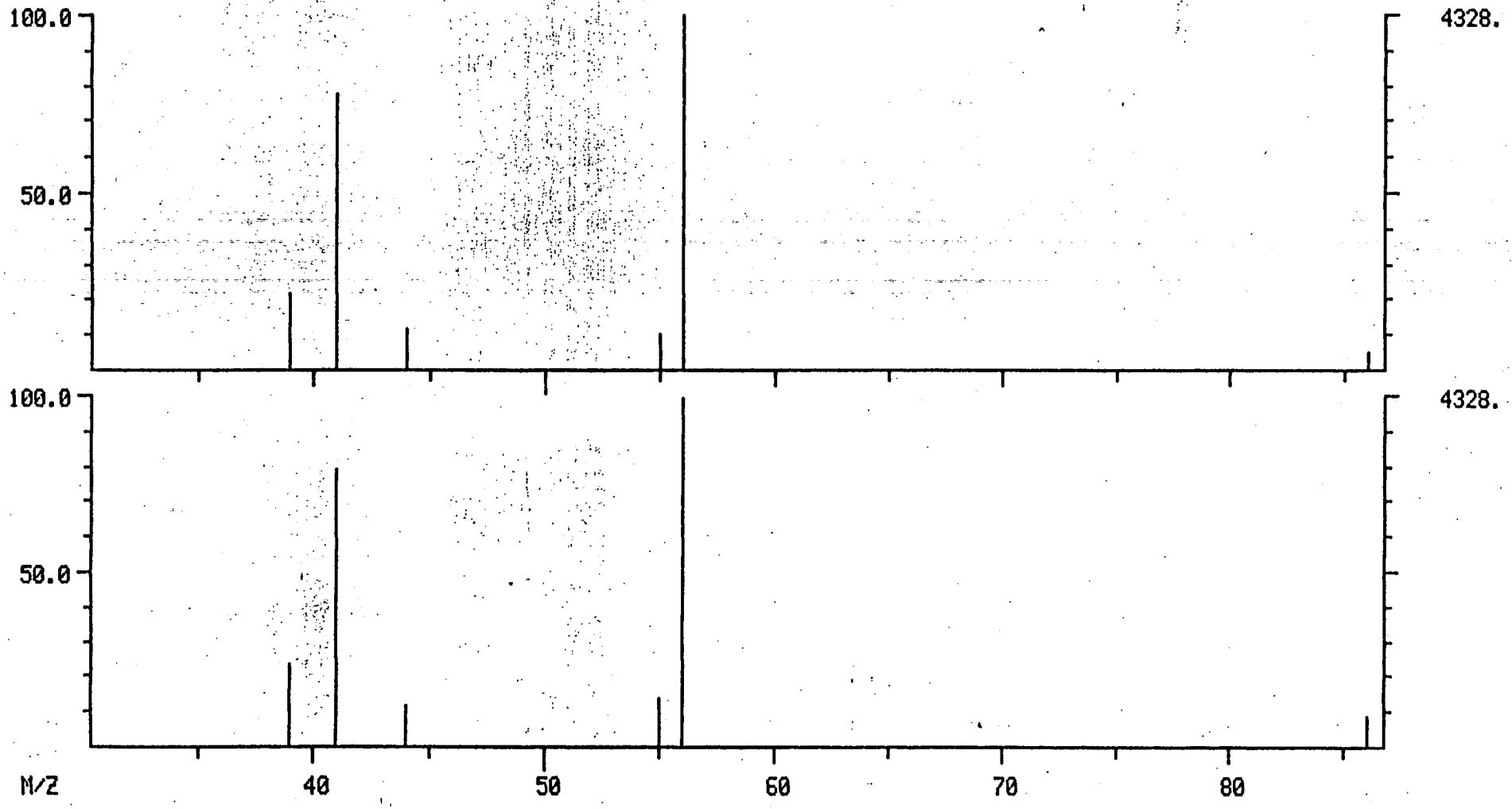
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C5. H8. O	84	56	727	855	797
2	C6. H12	84	56	849	849	985
3	C6. H12	84	56	812	812	951
4	C6. H12	84	41	797	797	919
5	C6. H12	84	84	756	756	877

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	——	——	——	——	1517-15-3
2	——	——	——	——	110-82-7
3	——	——	——	——	763-29-1
4	——	——	——	——	592-41-6
5	——	——	——	——	7642-09-3

MID DUAL MASS SPECTRUM
08/19/87 14:53:00 + 12:48
SAMPLE: 14558-6
CONDS.: 5.2647 G
GC TEMP: 121 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 #407
CALI: 14558V6R3 #2

BASE M/Z: 56/ 56
RIC: 9743./ 10207.

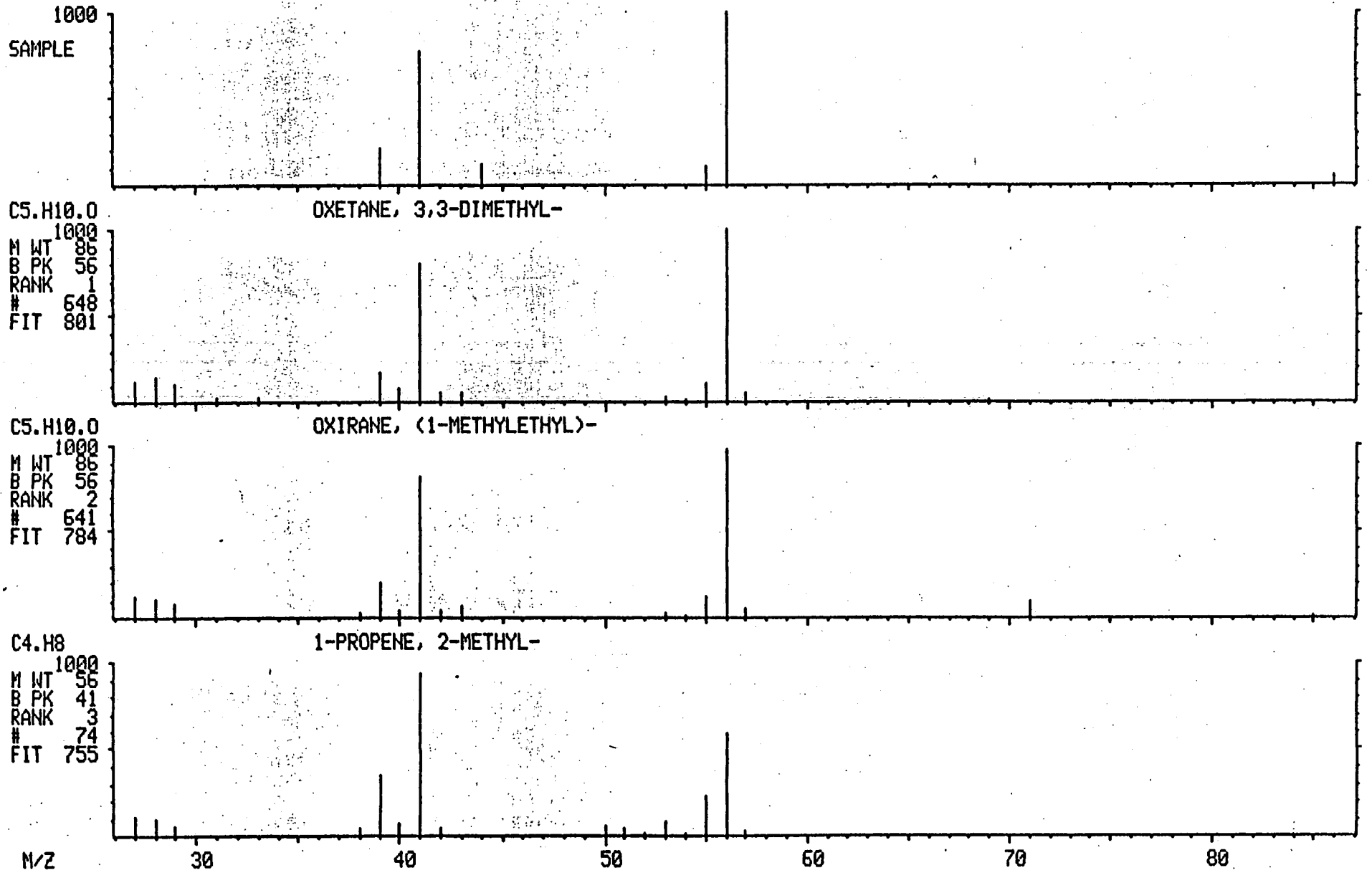


180

MID LIBRARY SEARCH
08/19/87 14:53:00 + 12:48
SAMPLE: 14558-6
CONDS.: 5.2647 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 # 407
CALI: 14558V6R3 # 2

BASE M/Z: 56
RIC: 9743.



187

MID Library Search Data: 14558V6R3 # 407 Base m/z: 56
08/19/87 14:53:00 + 12:48 Cali: 14558V6R3 # 2 RIC: 9743.
Sample: 14558-6
Conds.: 5.2647 G
Enhanced (S 15B 2N OT)

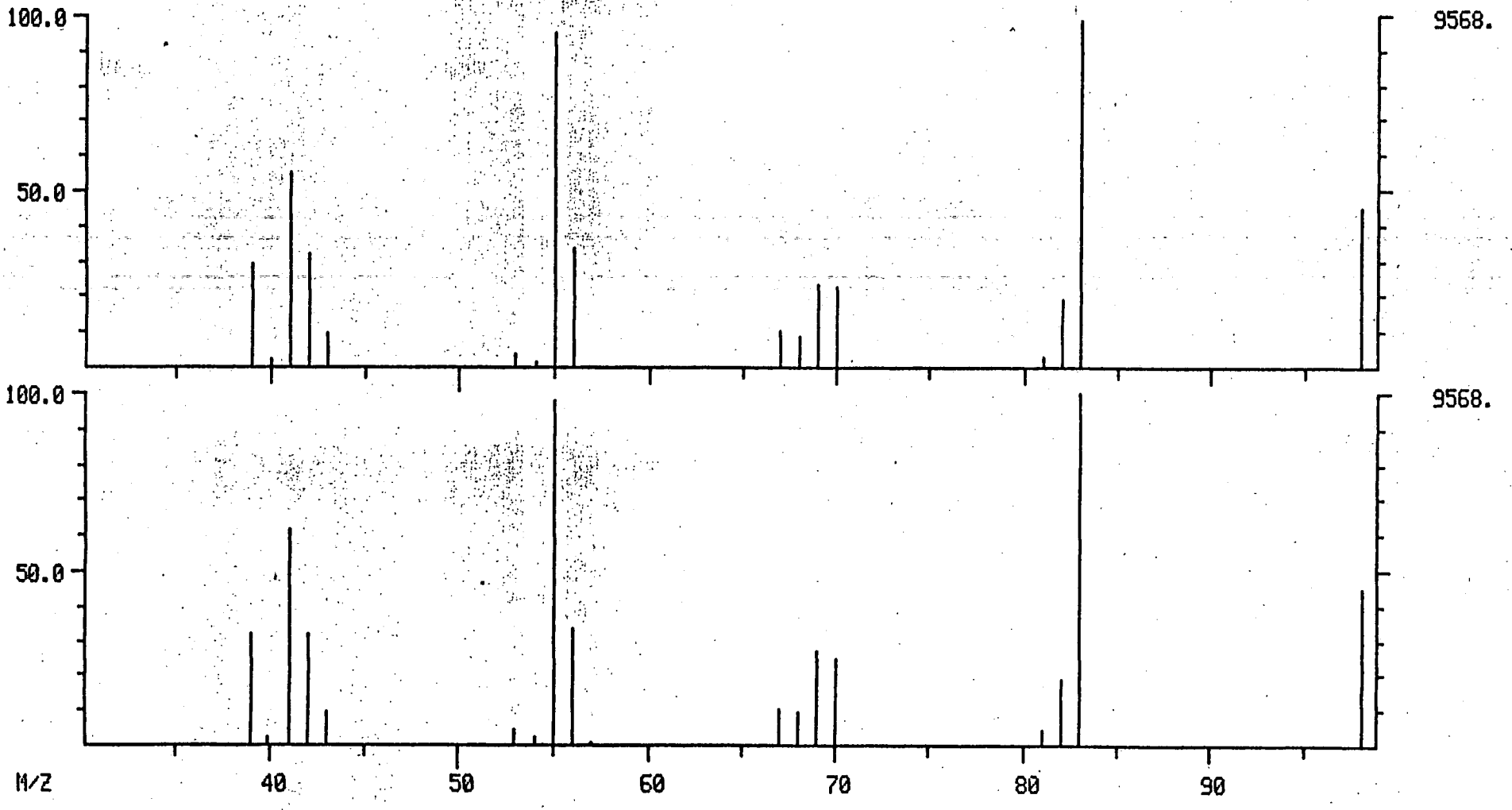
Rank	In.	Name
1	648	OXETANE, 3,3-DIMETHYL-
2	641	OXIRANE, (1-METHYLETHYL)-
3	74	1-PROPENE, 2-METHYL-
4	1895	CYCLOBUTANECARBONITRILE, 3,3-DIMETHYL-
5	1126	CYCLOBUTANONE, 2,3-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C5.H10.O	86	56	734	801	915
2	C5.H10.O	86	56	718	784	916
3	C4.H8	56	41	692	755	868
4	C7.H11.N	109	56	688	751	902
5	C6.H10.O	98	56	648	731	859

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	———	———	———	———	6921-35-3
2	———	———	———	———	1438-14-8
3	———	———	———	———	115-11-7
4	———	———	———	———	53783-86-1
5	———	———	———	———	38559-13-6

MID DUAL MASS SPECTRUM
08/19/87 14:53:00 + 17:29
SAMPLE: 14558-6
CONDS.: 5.2647 G
GC TEMP: 159 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 #556 BASE M/Z: 83/ 83
CALI: 14558V6R3 #2 RIC: 46975./ 49279.

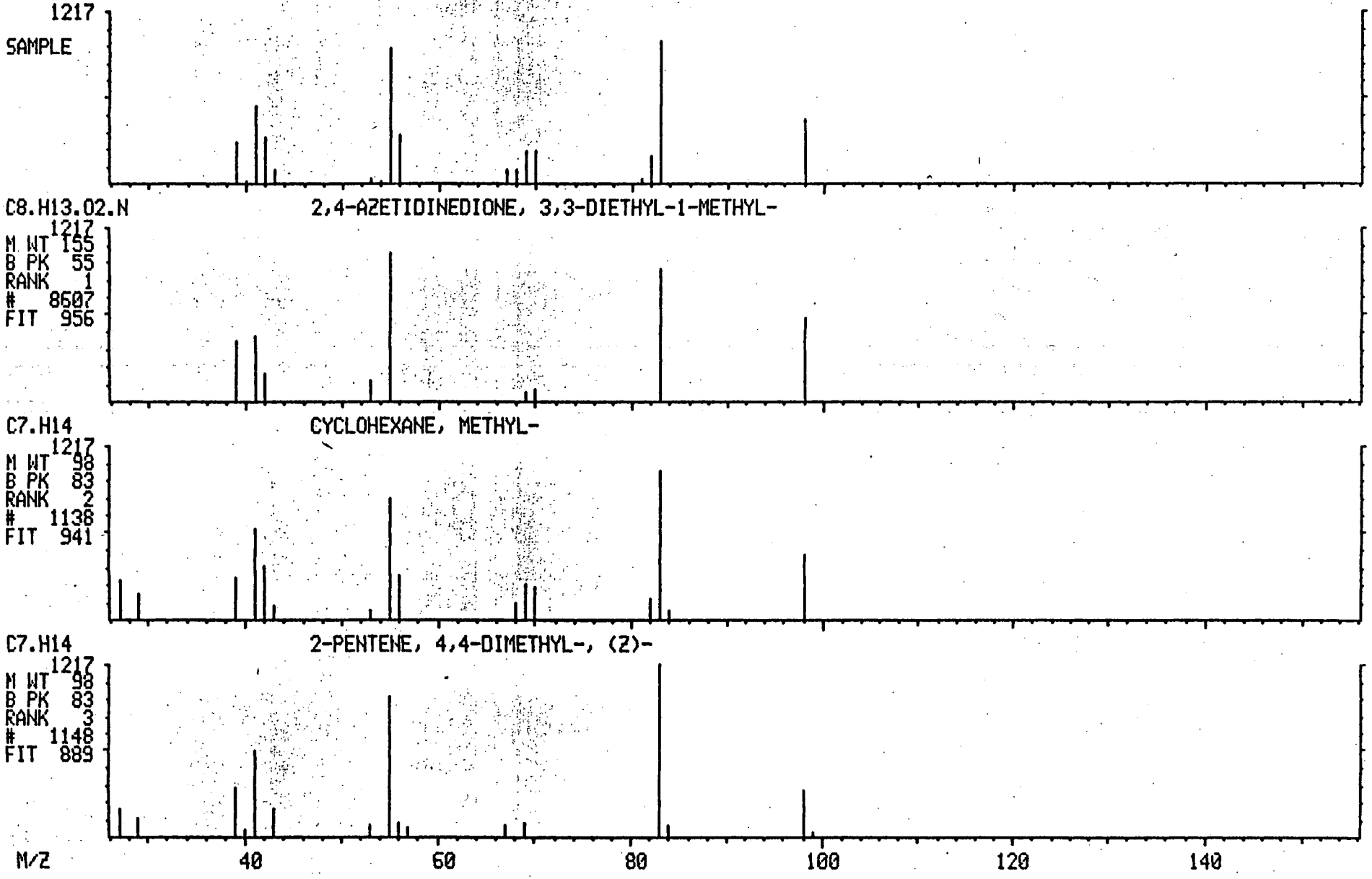


684

MID LIBRARY SEARCH
08/19/87 14:53:00 + 17:29
SAMPLE: 14558-6
CONDS.: 5.2647 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 # 556
CALI: 14558V6R3 # 2

BASE M/Z: 83
RIC: 46975.



180

MID Library Search
08/19/87 14:53:00 + 17:29
Sample: 14558-6
Conds.: 5.2647 G
Enhanced (S 15B 2N OT)

Data: 14558V6R3 # 556
Cali: 14558V6R3 # 2

Base m/z: 83
RIC: 46975.

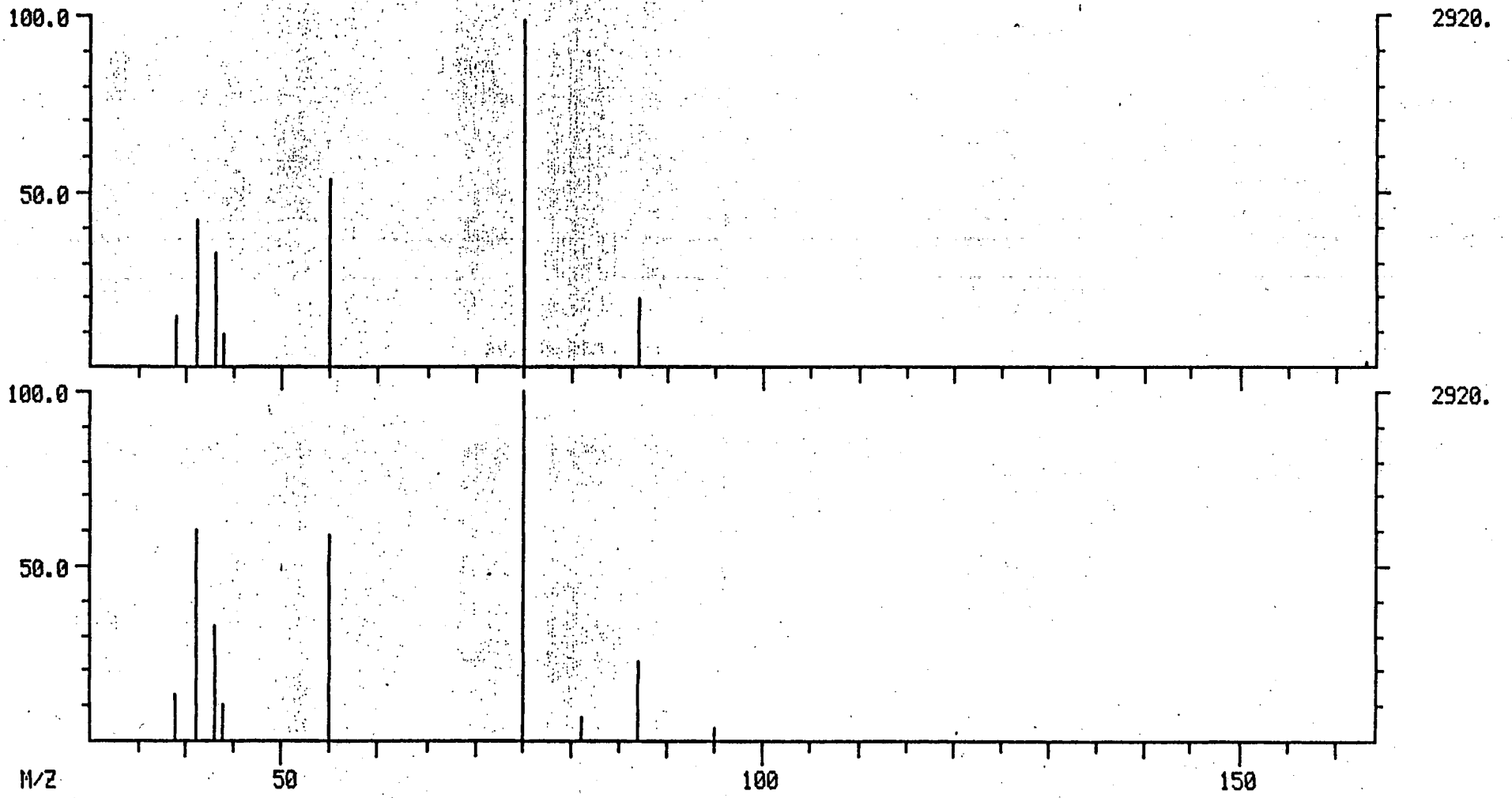
Rank	In.	Name
1	8607	2,4-AZETIDINEDIONE, 3,3-DIETHYL-1-METHYL-
2	1138	CYCLOHEXANE, METHYL-
3	1148	2-PENTENE, 4,4-DIMETHYL-, (Z)-
4	1177	2-PENTENE, 2,3-DIMETHYL-
5	1144	2-PENTENE, 2,4-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H13.O2.N	155	55	790	956	795
2	C7.H14	98	83	911	941	965
3	C7.H14	98	83	738	889	799
4	C7.H14	98	83	766	887	830
5	C7.H14	98	83	688	882	751

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	69315-91-9
2	___	___	___	___	108-87-2
3	___	___	___	___	762-63-0
4	___	___	___	___	10574-37-5
5	___	___	___	___	625-65-0

MID DUAL MASS SPECTRUM
08/19/87 14:53:00 + 20:00
SAMPLE: 14558-6
CONDS.: 5.2647 G
GC TEMP: 179 DEG. C
ENHANCED (S 15B 2N 0T)

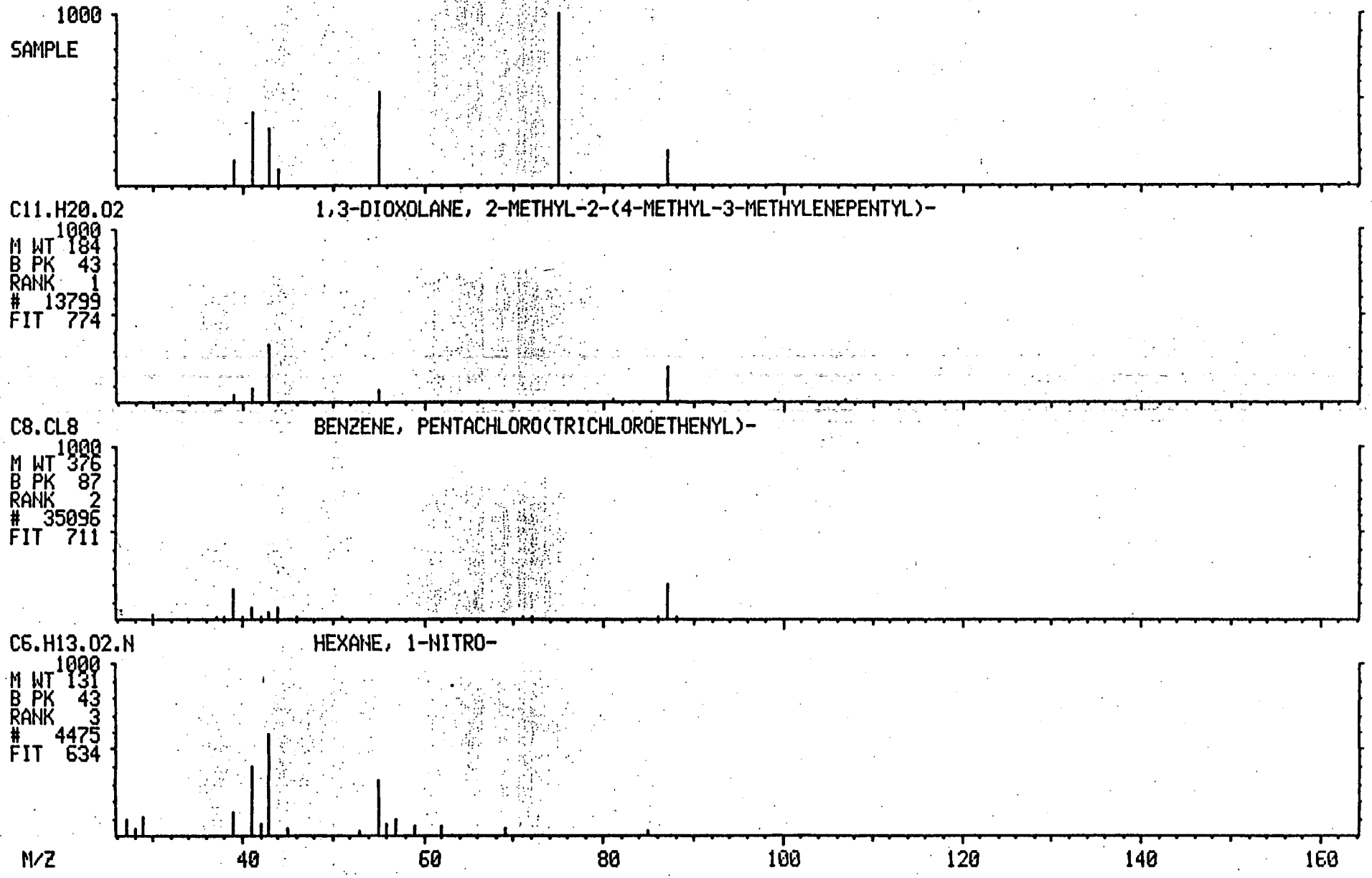
DATA: 14558V6R3 #636 BASE M/Z: 75/ 75
CALI: 14558V6R3 #2 RIC: 7959./ 8943.



MID LIBRARY SEARCH
08/19/87 14:53:00 + 20:00
SAMPLE: 14558-6
CONDS.: 5.2647 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 # 636
CALI: 14558V6R3 # 2

BASE M/Z: 75
RIC: 7959.



MID Library Search
08/19/87 14:53:00 + 20:00
Sample: 14558-6
Conds.: 5.2647 G
Enhanced (S 15B 2N OT)

Data: 14558V6R3 # 636
Cali: 14558V6R3 # 2

Base m/z: 75
RIC: 7959.

Rank	In.	Name
1	13799	1,3-DIOXOLANE, 2-METHYL-2-(4-METHYL-3-METHYLENEPENTYL)-
2	35096	BENZENE, PENTACHLORO(TRICHLOROETHENYL)-
3	4475	HEXANE, 1-NITRO-
4	1473	1,3-DIOXOLANE, 2,2-DIMETHYL-
5	2169	3-HEPTEN-2-ONE

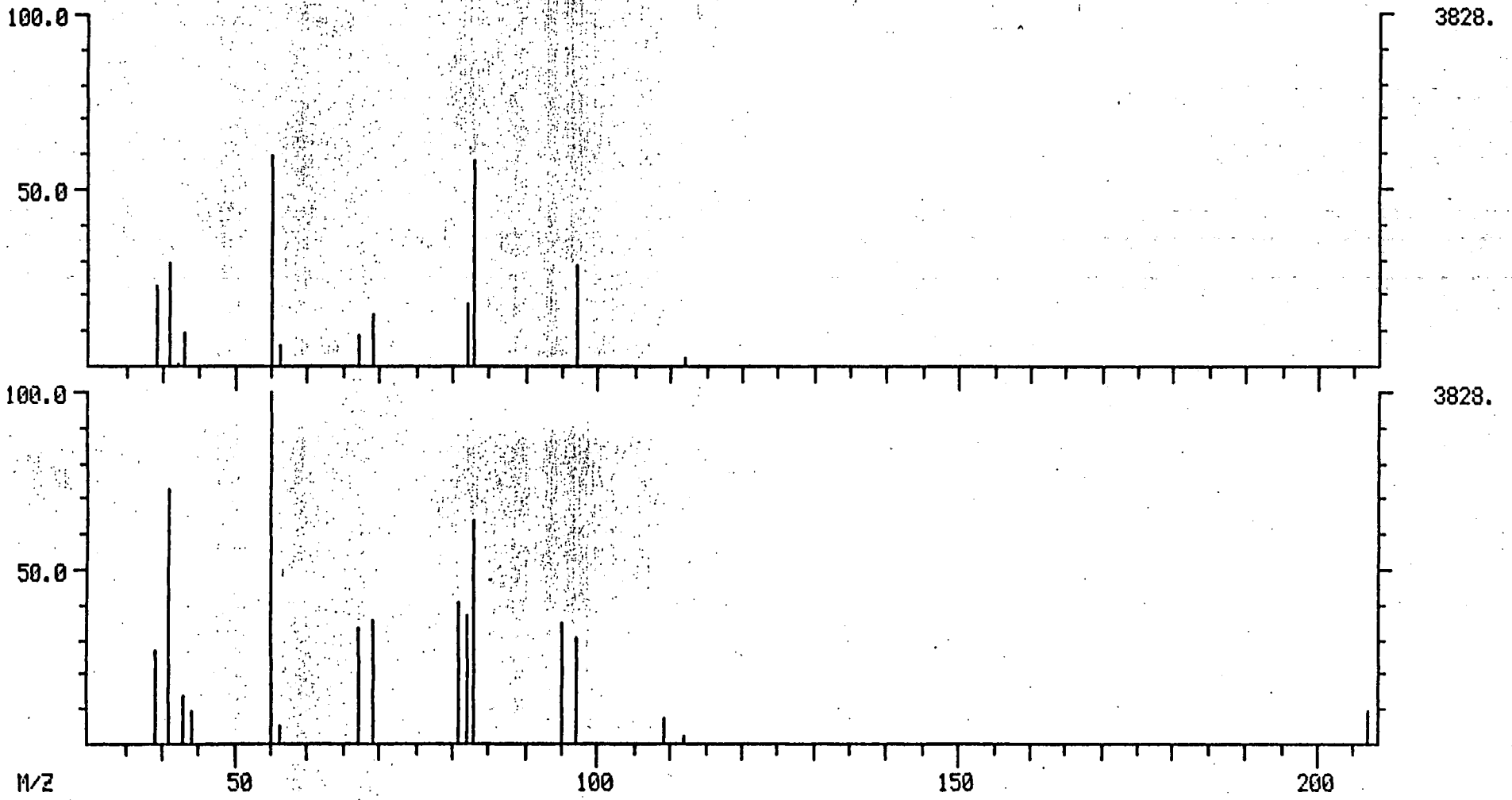
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H20.O2	184	43	396	774	420
2	C8.CL8	376	87	253	711	293
3	C6.H13.O2.N	131	43	258	634	388
4	C5.H10.O2	102	43	208	586	286
5	C7.H12.O	112	55	238	585	401

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	66972-05-2
2	—	—	—	—	29082-74-4
3	—	—	—	—	646-14-0
4	—	—	—	—	2916-31-6
5	—	—	—	—	1119-44-4

MID DUAL MASS SPECTRUM
08/19/87 14:53:00 + 22:04
SAMPLE: 14558-6
CONDS.: 5.2647 G
GC TEMP: 196 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 #702
CALI: 14558V6R3 #2

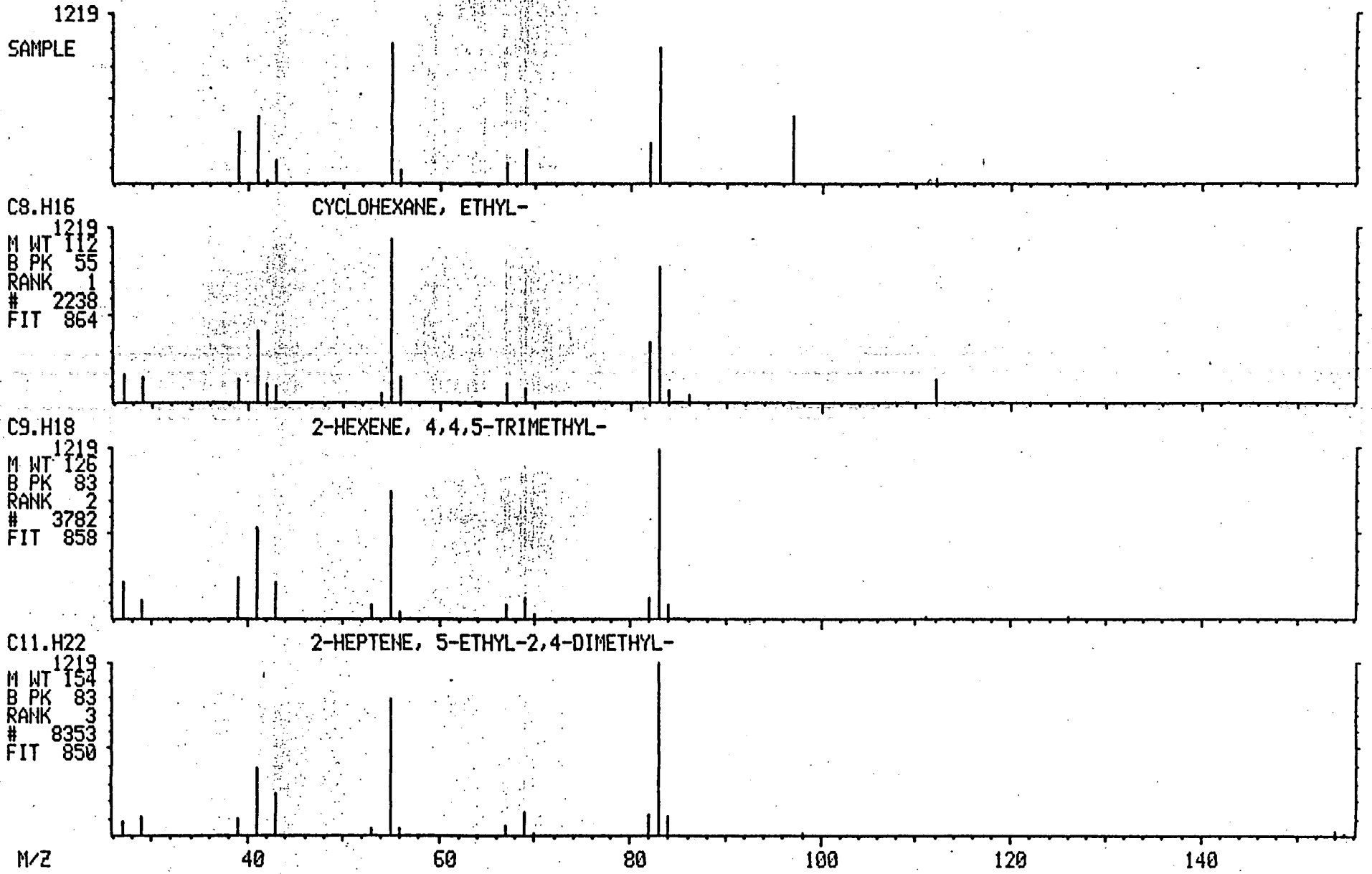
BASE M/Z: 55/ 55
RIC: 9791./ 19967.



MID LIBRARY SEARCH
08/19/87 14:53:00 + 22:04
SAMPLE: 14558-6
CONDS.: 5.2647 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 # 702
CALI: 14558V6R3 # 2

BASE M/Z: 55
RIC: 9791.



196

MID Library Search Data: 14558V6R3 # 702 Base m/z: 55
08/19/87 14:53:00 + 22:04 Cali: 14558V6R3 # 2 RIC: 9791.
Sample: 14558-6
Conds.: 5.2647 G
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	2238	CYCLOHEXANE, ETHYL-
2	3782	2-HEXENE, 4,4,5-TRIMETHYL-
3	8353	2-HEPTENE, 5-ETHYL-2,4-DIMETHYL-
4	22942	PROPANEDINITRILE, CYCLOHEXYL(2-METHYLCYCLOHEXYL)-
5	2233	3-HEXENE, 2,2-DIMETHYL-, (E)-

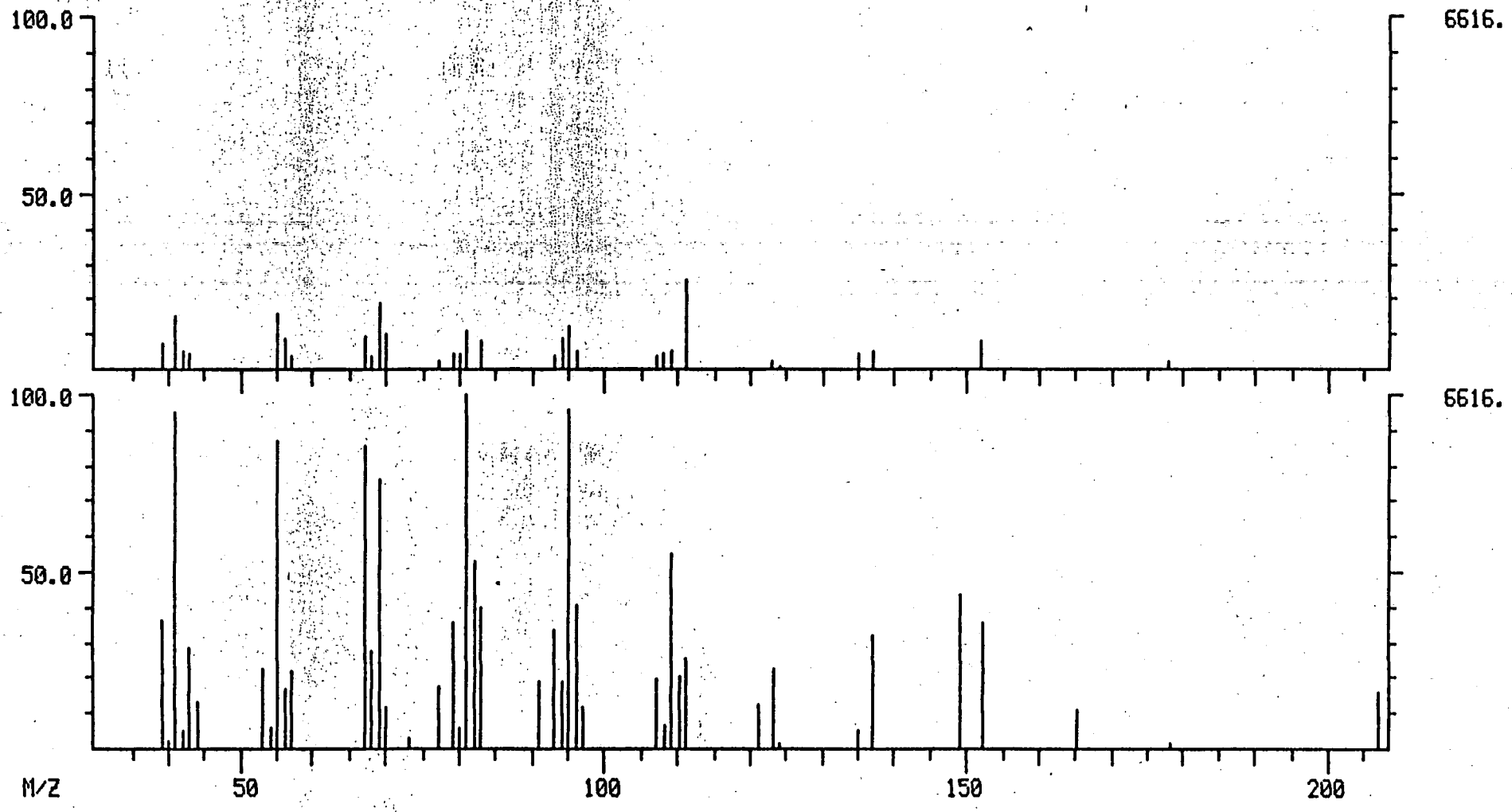
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H16	112	55	722	864	792
2	C9.H18	126	83	704	858	800
3	C11.H22	154	83	698	850	790
4	C16.H24.N2	244	55	748	827	842
5	C8.H16	112	55	752	821	868

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	1678-91-7
2	—	—	—	—	55702-61-9
3	—	—	—	—	74421-06-0
4	—	—	—	—	74764-55-9
5	—	—	—	—	690-93-7

MID DUAL MASS SPECTRUM
08/19/87 14:53:00 + 23:40
SAMPLE: 14558-6
CONDS.: 5.2647 G
GC TEMP: 209 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 #753
CALI: 14558V6R3 #2

BASE M/Z: 111/ 81
RIC: 14831./ 87167.

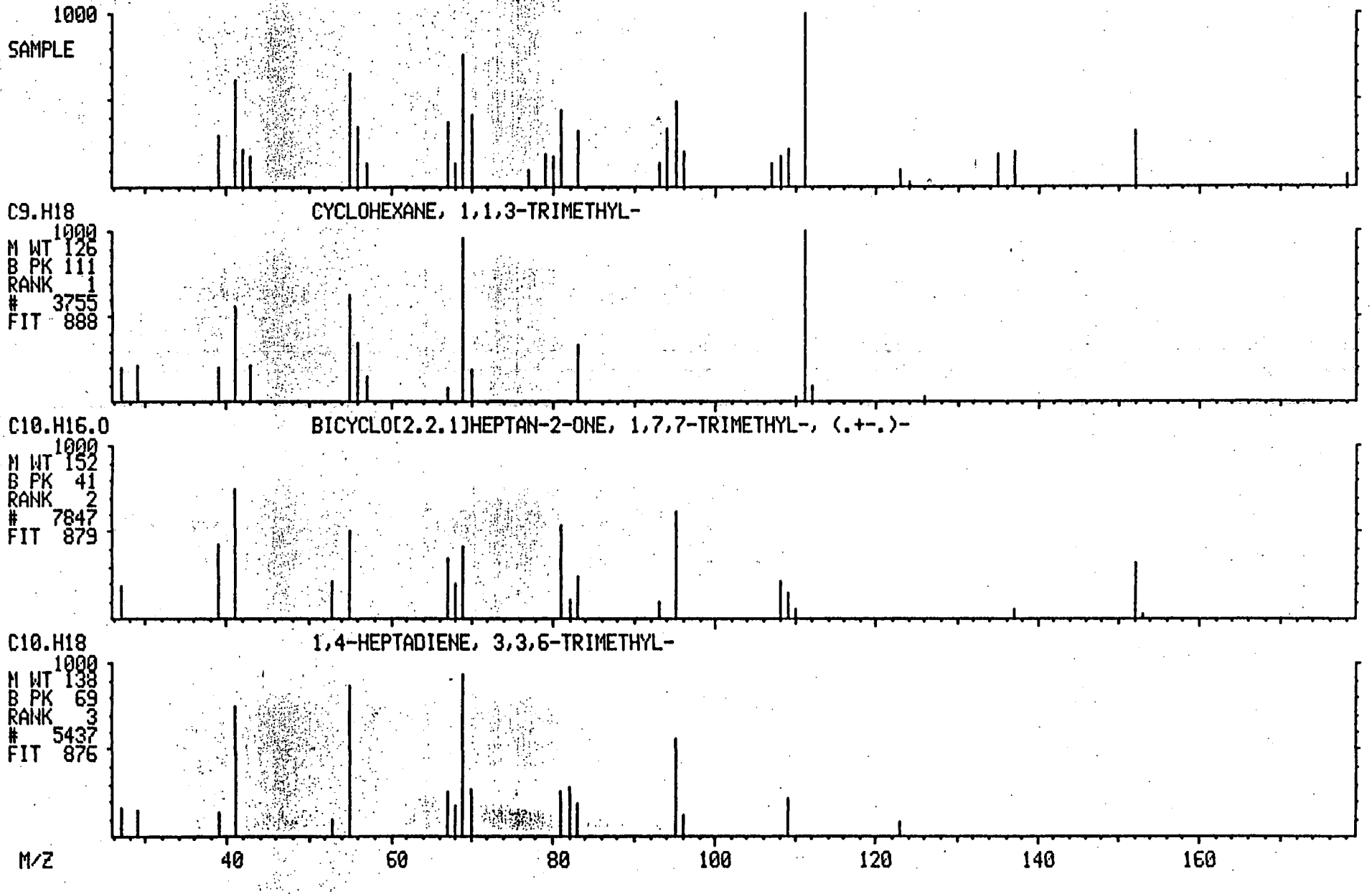


861

MID LIBRARY SEARCH
08/19/87 14:53:00 + 23:40
SAMPLE: 14558-6
CONDS.: 5.2647 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R3 # 753
CALI: 14558V6R3 # 2

BASE M/Z: 111
RIC: 14831.



661

MID Library Search Data: 14558V6R3 # 753 Base m/z: 111
08/19/87 14:53:00 + 23:40 Cali: 14558V6R3 # 2 RIC: 14831.
Sample: 14558-6
Conds.: 5.2647 G
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	3755	CYCLOHEXANE, 1,1,3-TRIMETHYL-
2	7847	BICYCLO[2.2.1]HEPTAN-2-ONE, 1,7,7-TRIMETHYL-, (.+-.)-
3	5437	1,4-HEPTADIENE, 3,3,6-TRIMETHYL-
4	5432	1,6-HEPTADIENE, 2,5,5-TRIMETHYL-
5	11020	CYCLOOCTANE, BUTYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	111	423	888	460
2	C10.H16.O	152	41	474	879	520
3	C10.H18	138	69	417	876	463
4	C10.H18	138	69	411	863	454
5	C12.H24	168	69	405	854	449

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	3073-66-3
2	—	—	—	—	21368-68-3
3	—	—	—	—	74498-89-8
4	—	—	—	—	62238-28-2
5	—	—	—	—	16538-93-5

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0811750-R4

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-6R4

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 14558V6R4

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 30 Date Analyzed: 08/19/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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	14	
67-64-1	Acetone	14	U
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	14	U
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	10	
10061-02-6	Trans-1,3-Dichloropropene	7	U
110-75-8	2-Chloroethylvinylether	14	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	14	U
108-88-3	Toluene	100	
108-90-7	Chlorobenzene	7	U
100-41-4	Ethylbenzene	27	
100-42-5	Styrene	7	U
	Total Xylenes	230	X

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0811730-R4

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-6R4

Sample wt/vol: 5.2 (g/mL) G Lab File ID: 14558V6R4

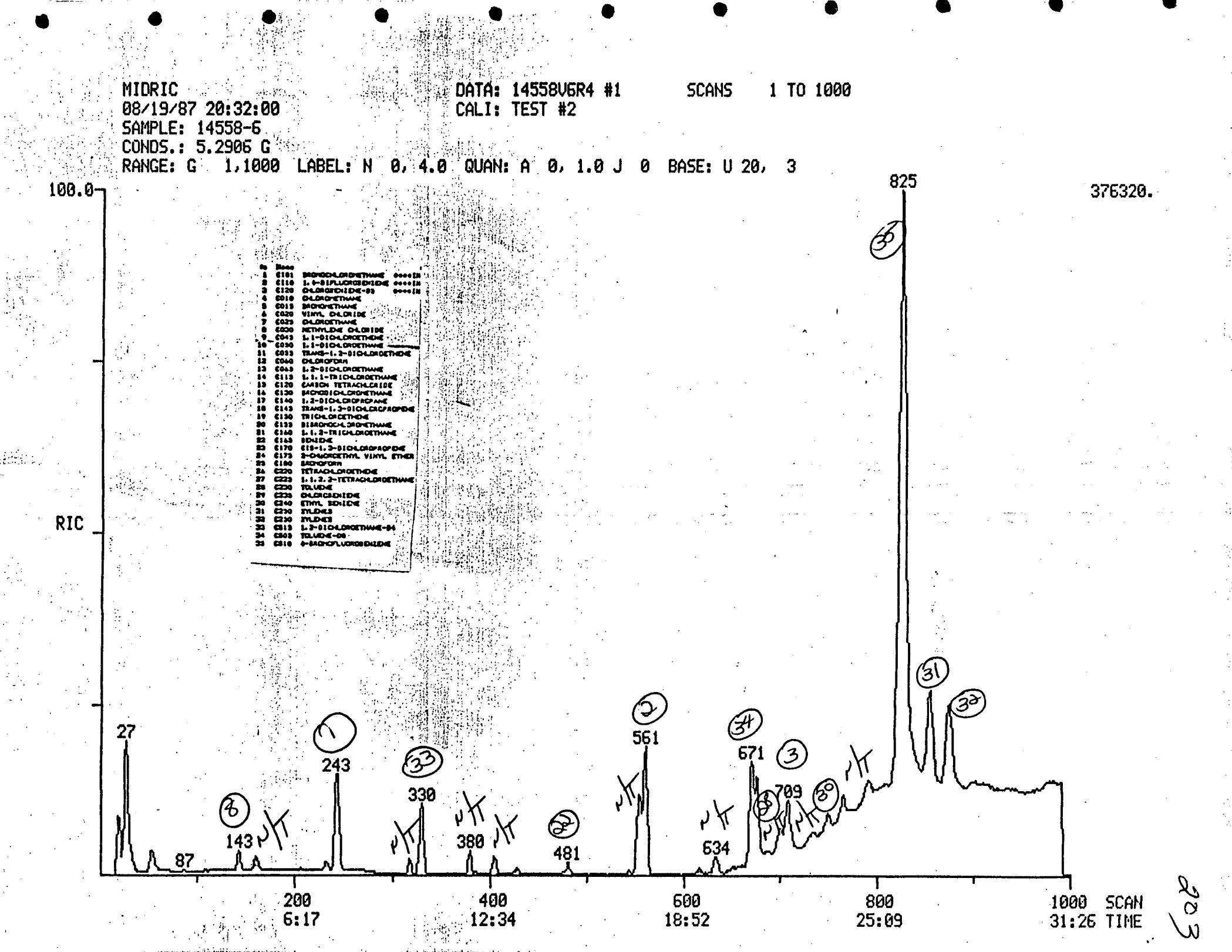
Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 30 Date Analyzed: 08/19/87

Column (pack/cap) PACKED Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q


MIDRIC
08/19/87 20:32:00
SAMPLE: 14558-6
CONDS.: 5.2906 G
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558V6R4 #1
CALI: TEST #2
SCANS 1 TO 1000
100.0
376320.
RIC
825
27
87
143
243
330
380
481
561
634
671
709
200
6:17
400
12:34
600
18:52
800
25:09
1000 SCAN
31:26 TIME

Quantitation Report File: 14558V6R4

Data: 14558V6R4.TI
08/19/87 20:32:00
Sample: 14558-6
Conds.: 5.2906 G
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	243	7:38	1	1.000	A BB	42495.	50.000 UG/L	7.99
2	114	561	17:38	2	1.000	A BB	177864.	50.000 UG/L	7.99
3	117	709	22:17	3	1.000	A BB	53114.	50.000 UG/L	7.99
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	84	143	4:30	1	0.588	A BB	11212.	10.254 UG/L	1.64
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	78	481	15:07	2	0.857	A BB	23015.	7.450 UG/L	1.19
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	92	676	21:15	3	0.953	A BB	62936.	75.249 UG/L	12.02
29	NOT FOUND								
30	106	766	24:05	3	1.080	A BB	10670.	19.901 UG/L	3.18
31	106	856	26:55	3	1.207	A BB	56755.	82.070 UG/L	13.11
32	106	874	27:28	3	1.233	A BB	62949.	90.978 UG/L	14.53
33	65	330	10:22	1	1.358	A BB	67918.	45.430 UG/L	7.26
34	98	671	21:06	3	0.946	A BB	112940.	93.638 UG/L	14.96
35	95	823	25:52	3	1.161	M XX	52655.	51.070 UG/L	8.16

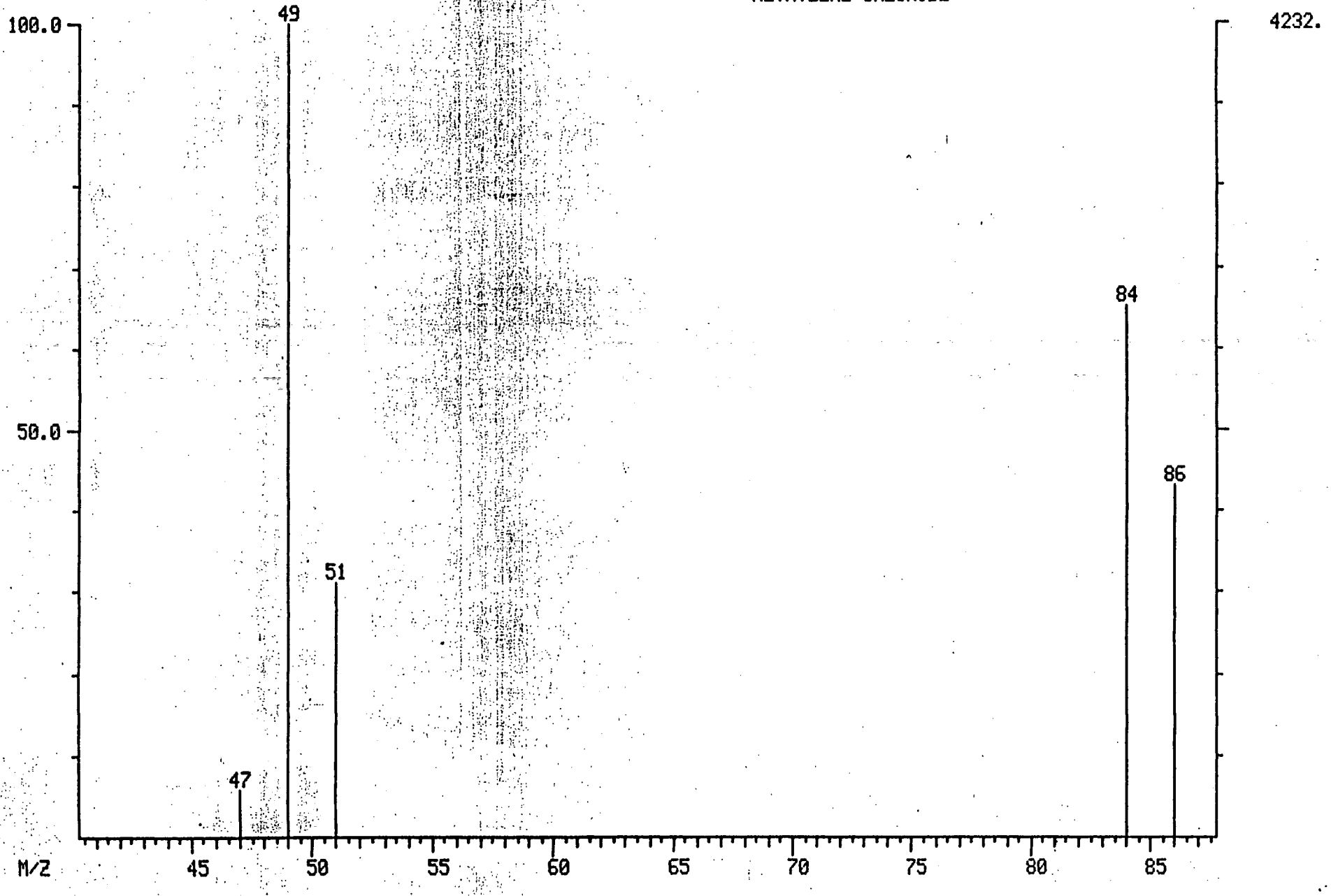
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:44	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:21	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:23		0.179			50.00		0.461	
5	1:55		0.248			50.00		1.133	
6	2:23		0.309			50.00		1.084	
7	2:55		0.378			50.00		0.830	
8	4:35	0.98	0.593	0.99	10.25	50.00	0.264	1.287	0.21
9	7:14		0.935			50.00		1.284	
10	8:29		1.098			50.00		2.706	
11	9:15		1.195			50.00		1.419	
12	9:52		1.276			50.00		3.374	
13	10:34		1.366			50.00		2.167	
14	11:44		0.663			50.00		0.498	
15	12:06		0.684			50.00		0.334	
16	12:46		0.721			50.00		0.600	
17	13:57		0.789			50.00		0.361	
18	14:16		0.806			50.00		0.636	
19	14:48		0.837			50.00		0.484	
20	15:28		0.874			50.00		0.491	
21	15:32		0.877			50.00		0.374	
22	15:11	1.00	0.858	1.00	7.45	50.00	0.129	0.868	0.15
23	15:30		0.876			50.00		0.272	
24	16:32		0.934			50.00		0.235	
25	18:03		1.020			50.00		0.411	
26	20:13		0.904			50.00		0.572	
27	20:15		0.906			50.00		0.896	
28	21:21	1.00	0.955	1.00	75.25	50.00	1.185	0.787	1.50
29	22:29		1.006			50.00		1.103	
30	24:10	1.00	1.082	1.00	19.90	50.00	0.201	0.505	0.40
31	27:06	0.99	1.212	1.00	82.07	50.00	1.069	0.651	1.64
32	27:42	0.99	1.239	0.99	90.98	50.00	1.185	0.651	1.82
33	10:26	0.99	1.350	1.01	45.43	50.00	1.598	1.759	0.91
34	21:11	1.00	0.948	1.00	93.64	50.00	2.126	1.135	1.87
35	26:00	1.00	1.163	1.00	51.07	50.00	0.991	0.971	1.02

MID MASS SPECTRUM
08/19/87 20:32:00 + 4:30
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 55 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 #143
CALI: 14558V6R4 #2

BASE M/Z: 49
RIC: 10384.

METHYLENE CHLORIDE



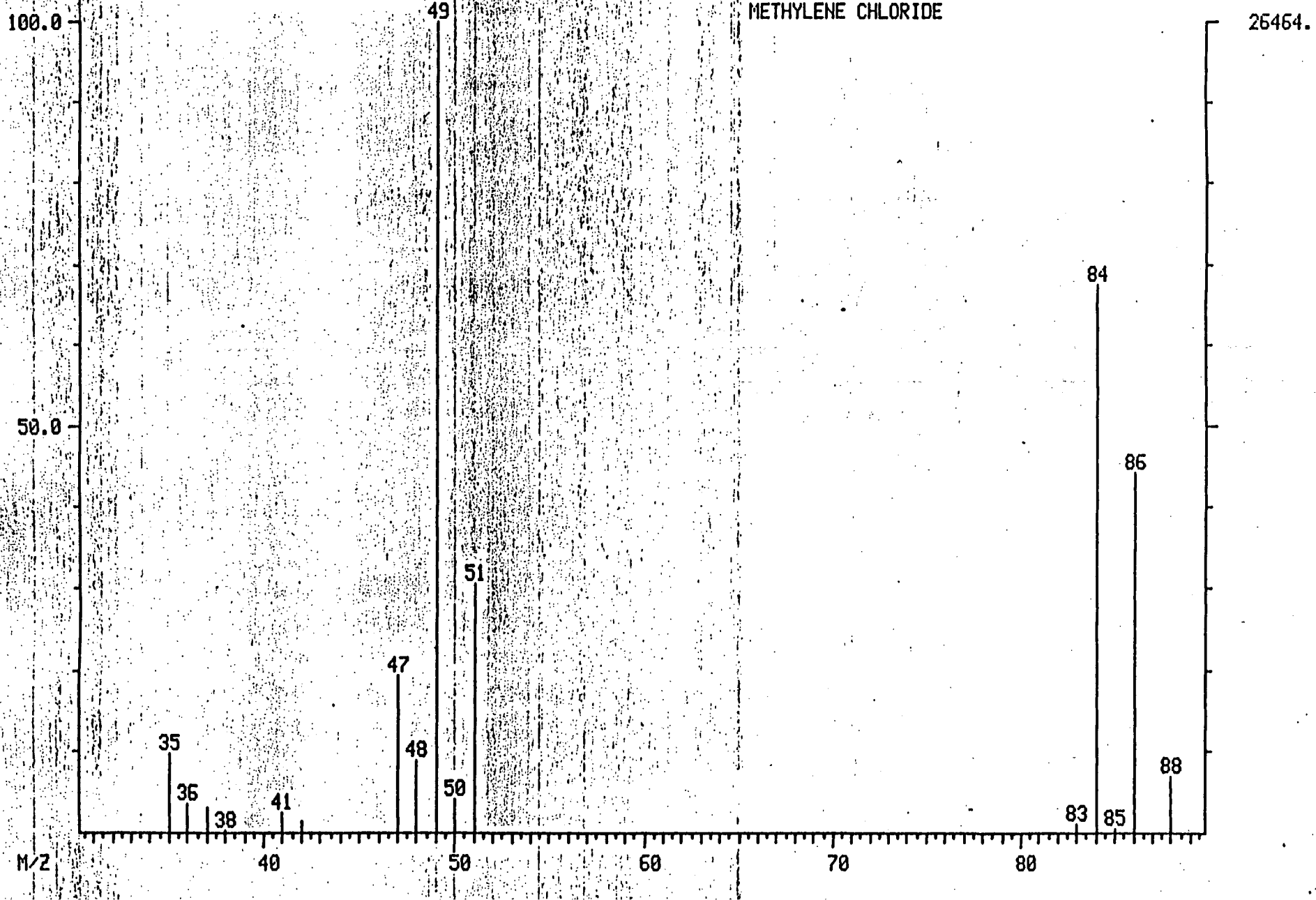
207

MID MASS SPECTRUM
06/04/87 2:47:00 + 4:37
SAMPLE: VOL STANDARD
CONDS.: 50UG/L STD
GC TEMP: 56 DEG. C
ENHANCED (5 15B 2N 0T)

DATA: V0604B5A #147
CALI: V0604B5A #2

BASE M/Z: 49
RIC: 80512.

METHYLENE CHLORIDE



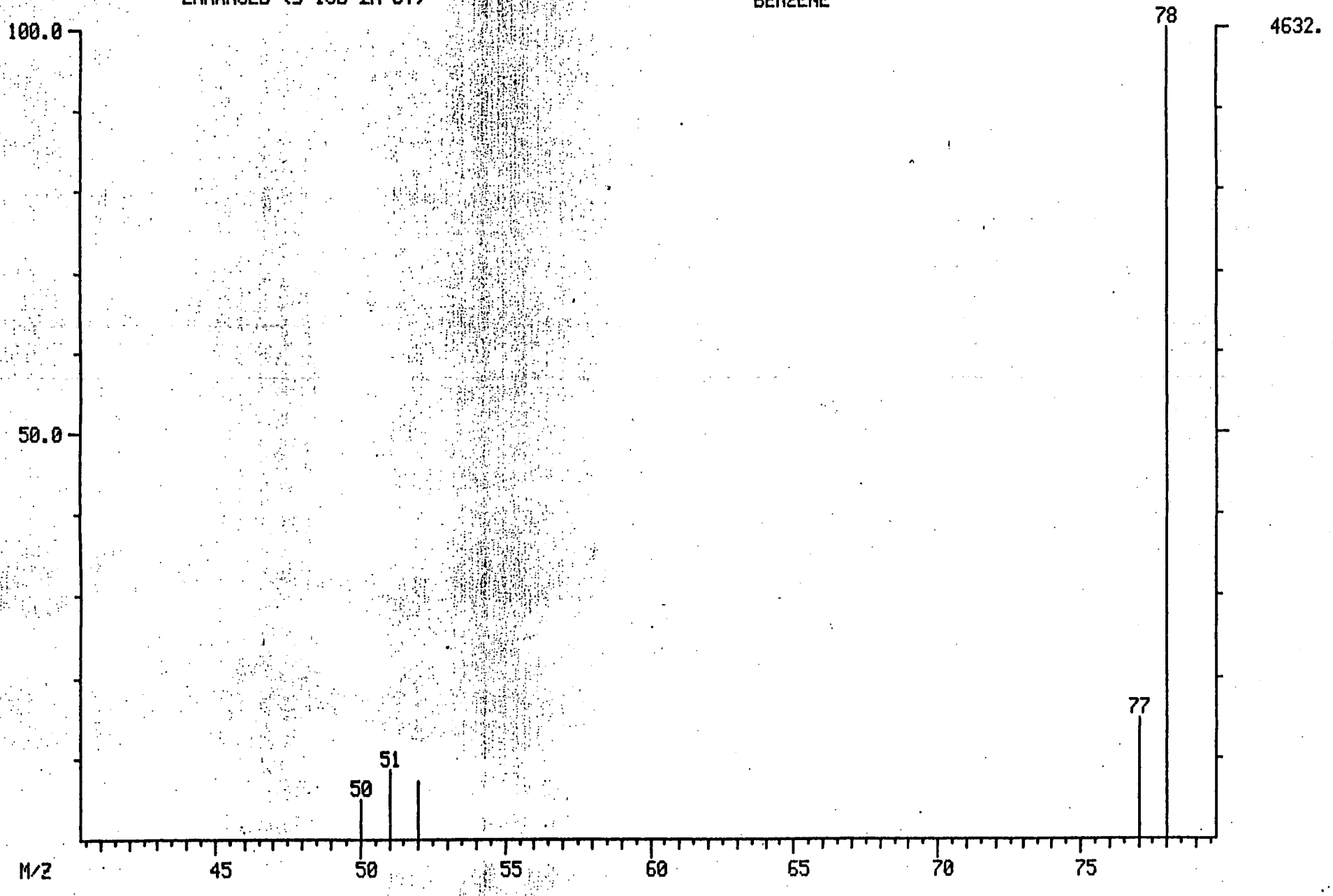
822

MID MASS SPECTRUM
08/19/87 20:32:00 + 15:07
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 141 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 #481
CALI: 14558V6R4 #2

BASE M/Z: 78
RIC: 6288.

BENZENE



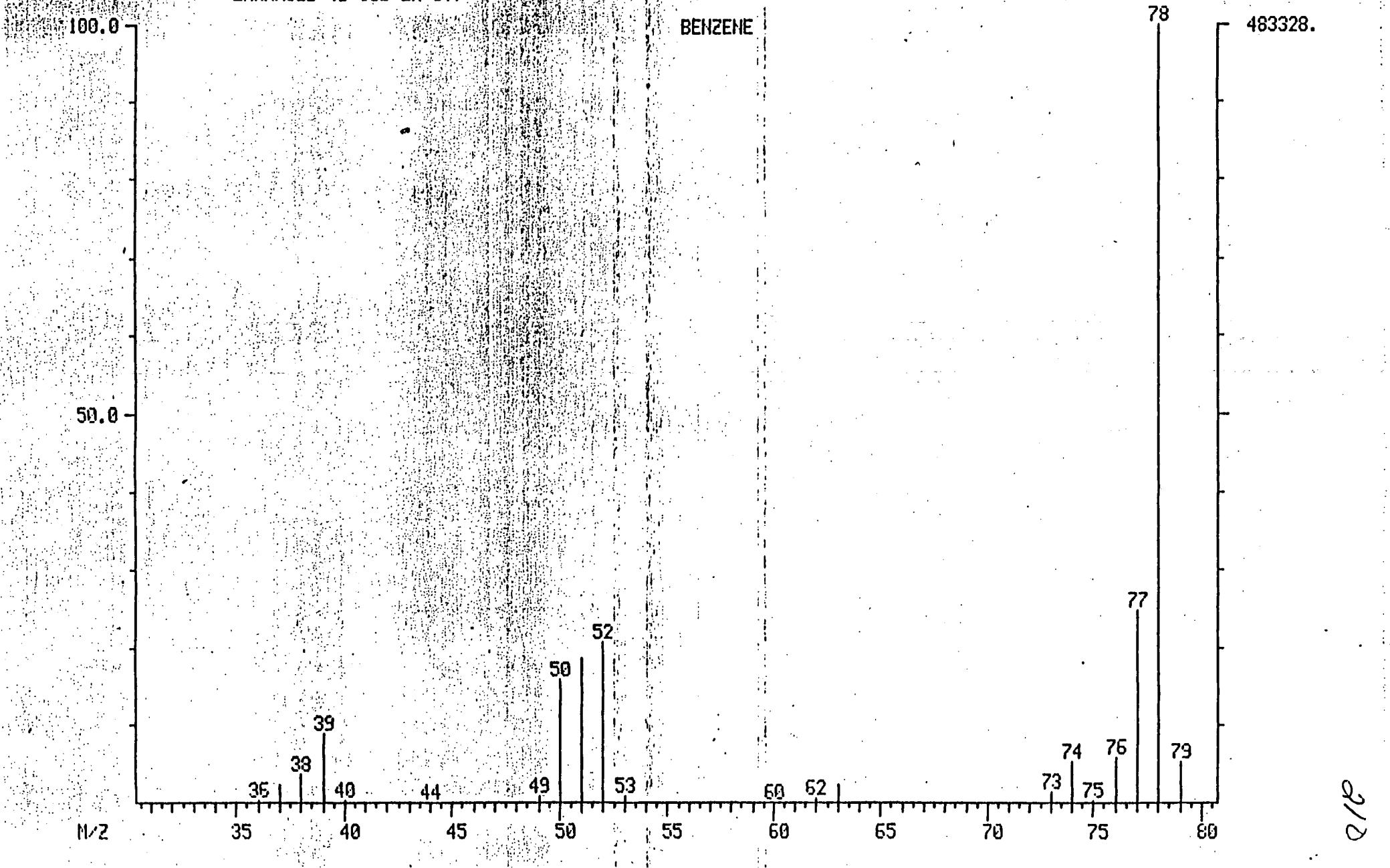
209

MID MASS SPECTRUM
02/21/87 11:08:00 + 15:02
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 139 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #479
CALI: VB0221A30 #2

BASE M/Z: 78
RIC: 1050620.

BENZENE



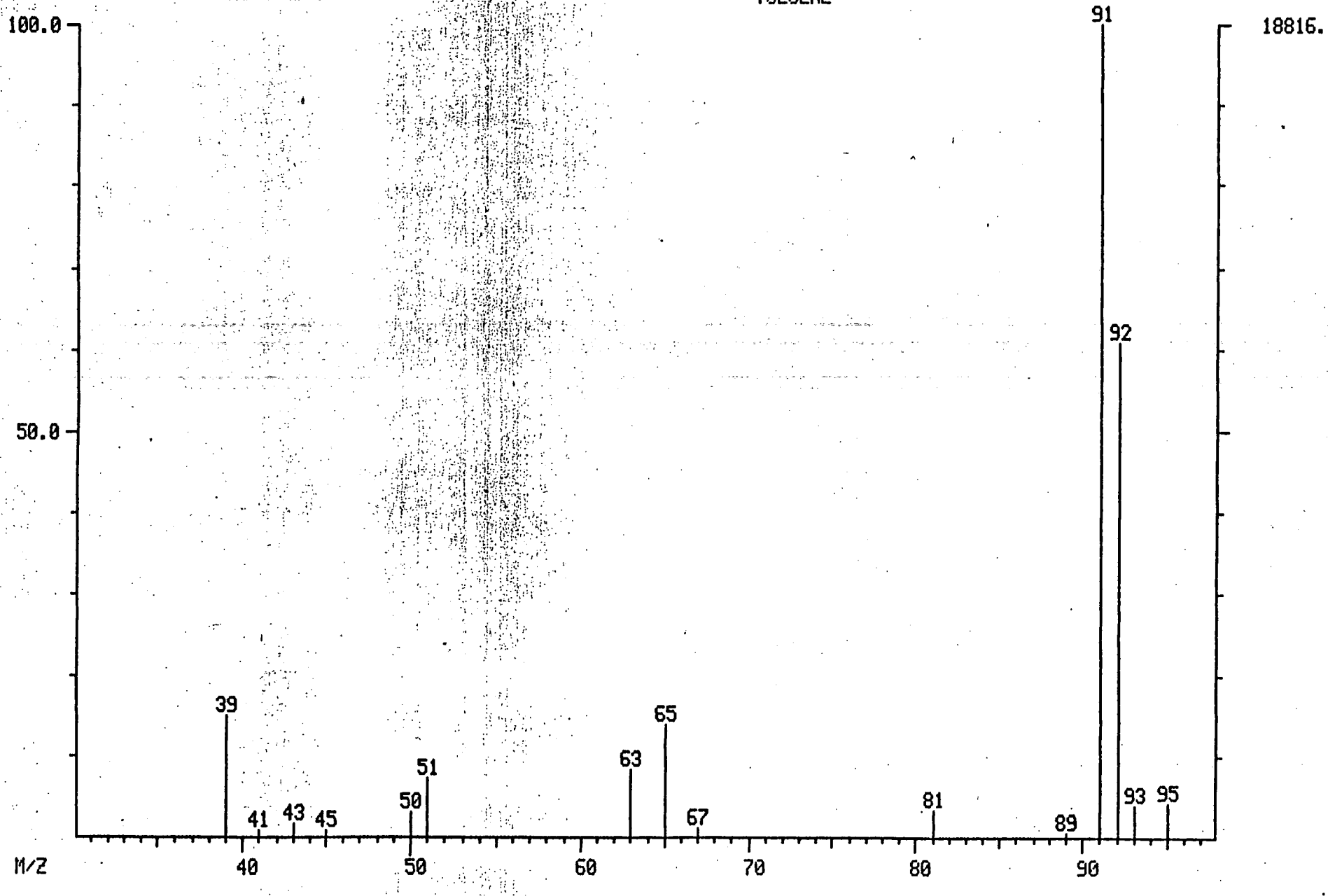
212

MID MASS SPECTRUM
08/19/87 20:32:00 + 21:15
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 190 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558VER4 #676
CALI: 14558VER4 #2

BASE M/Z: 91
RIC: 42304.

TOLUENE



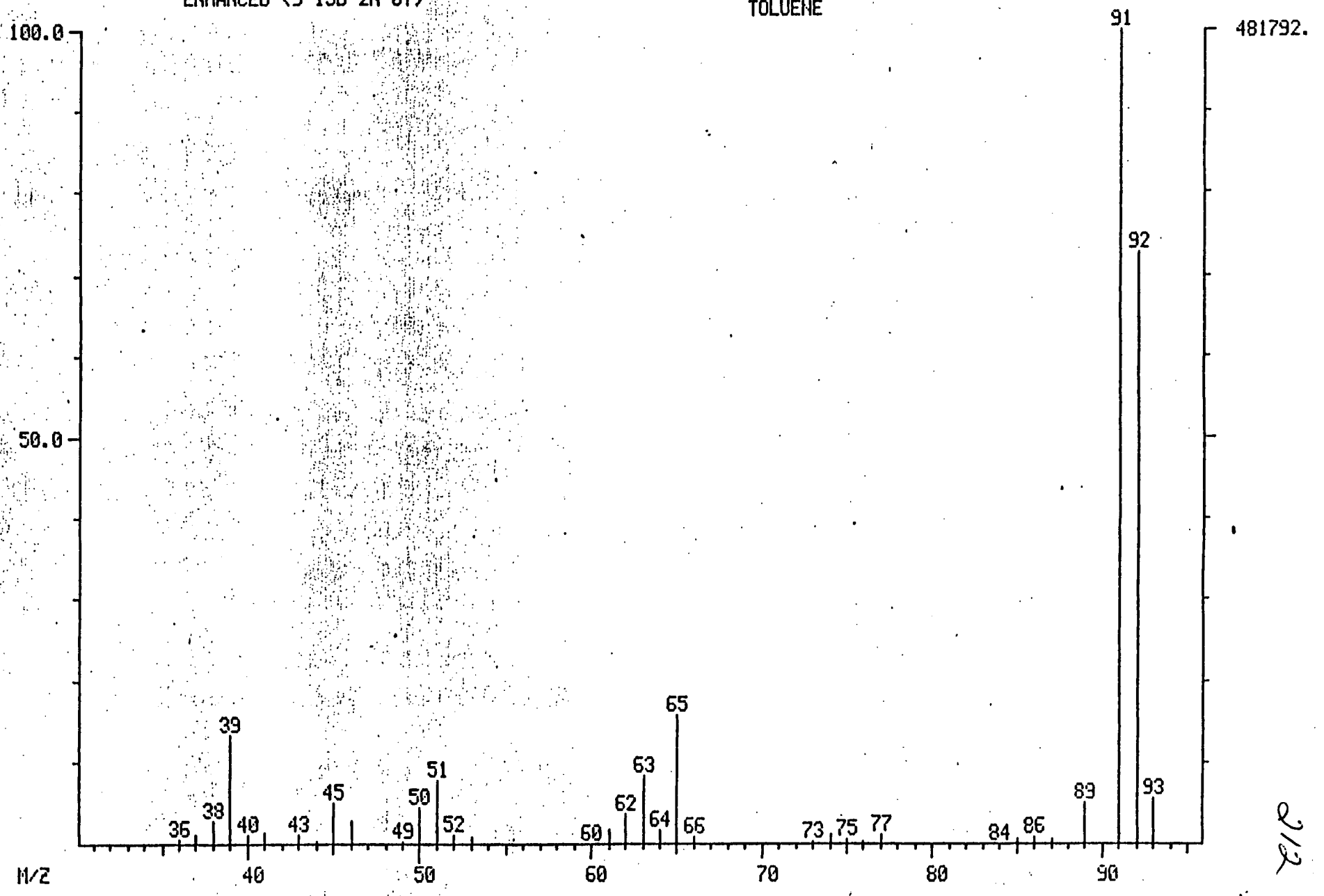
1/2

MID MASS SPECTRUM
02/21/87 11:08:00 + 21:13
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 189 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #676
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 1275900.

TOLUENE



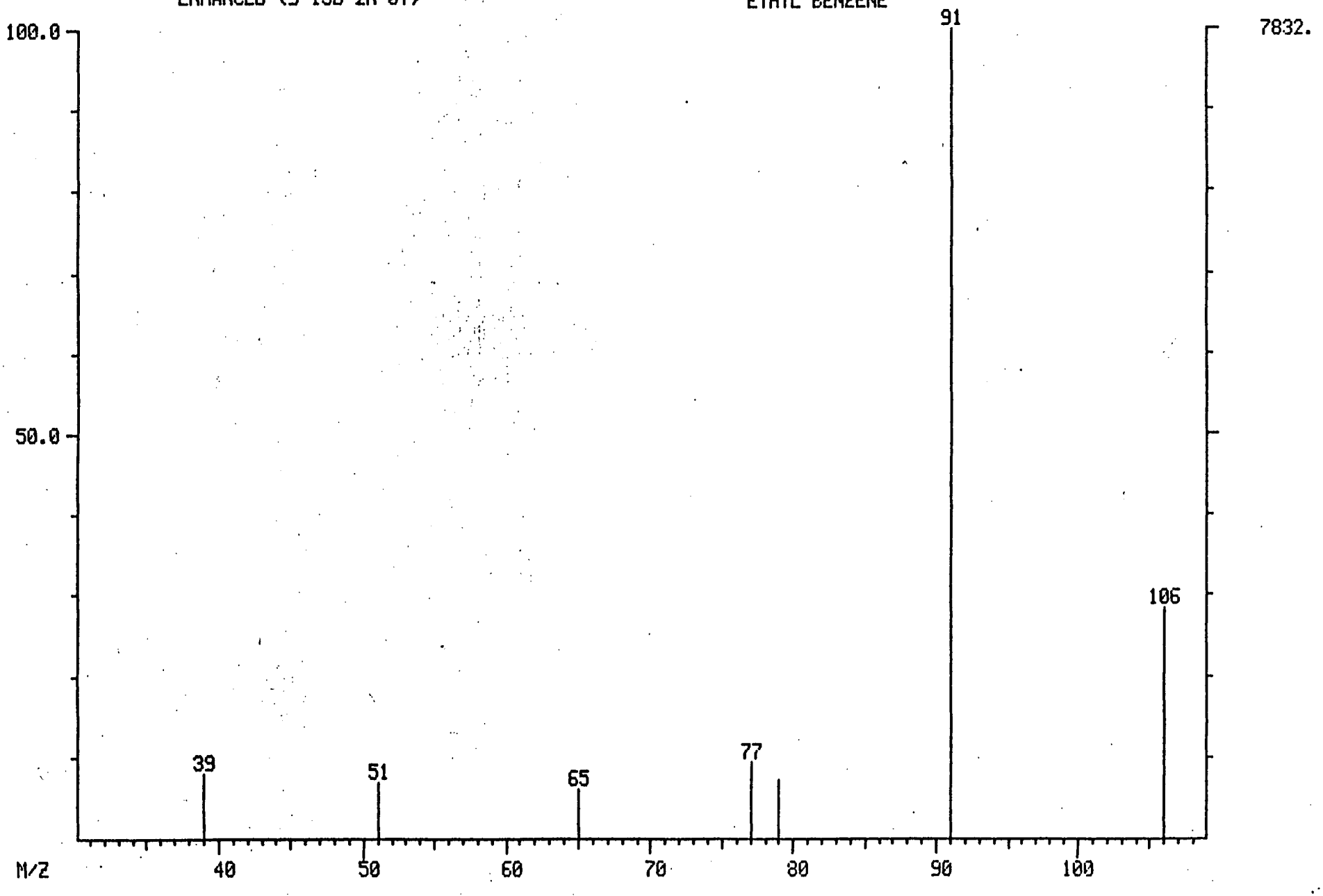
2/2

MID MASS SPECTRUM
08/19/87 20:32:00 + 24:05
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 212 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 #766
CALI: 14558V6R4 #2

BASE M/Z: 91
RIC: 13024.

ETHYL BENZENE



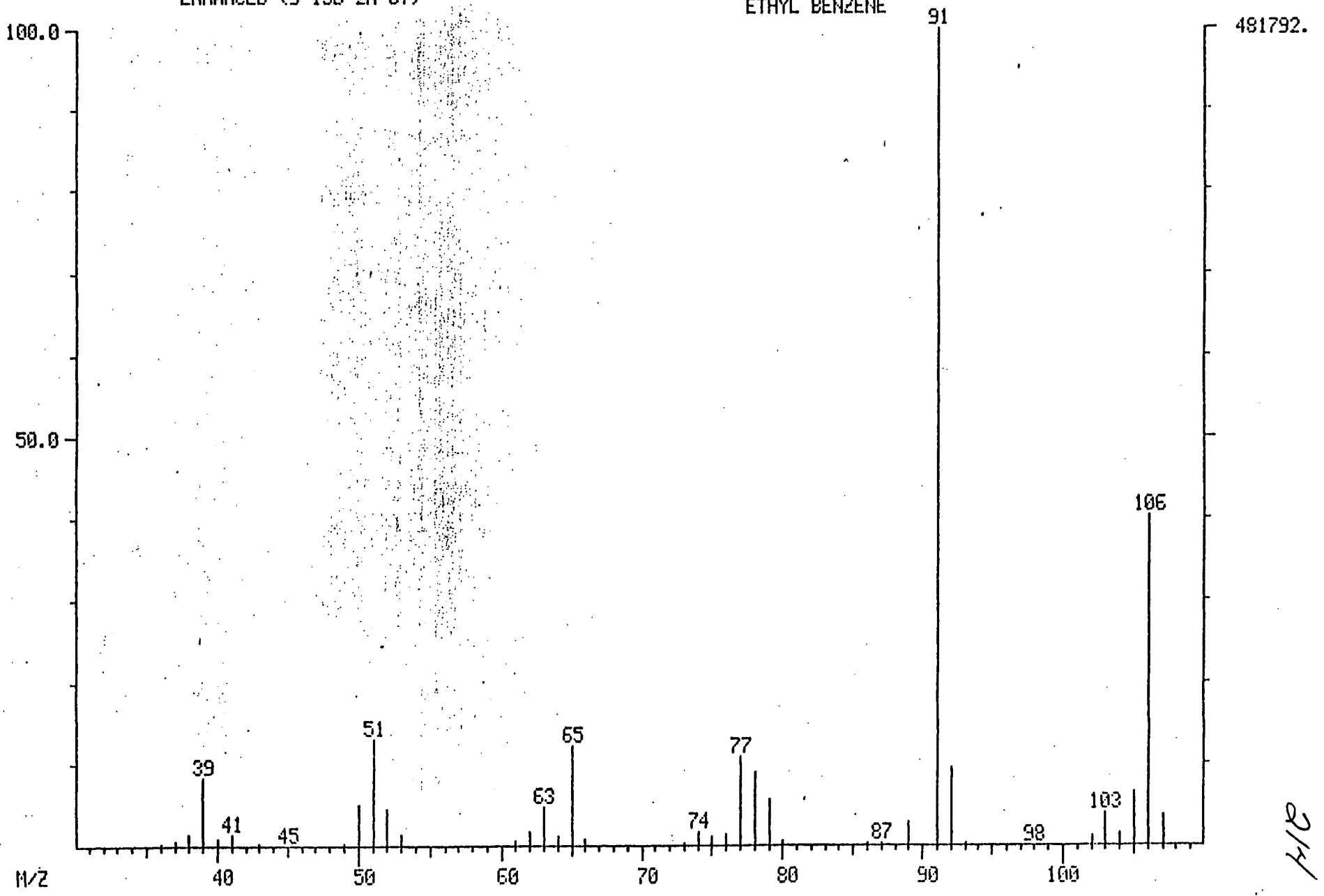
2/3

MID MASS SPECTRUM
02/21/87 11:08:00 + 24:00
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 212 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #765
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 1236990.

ETHYL BENZENE



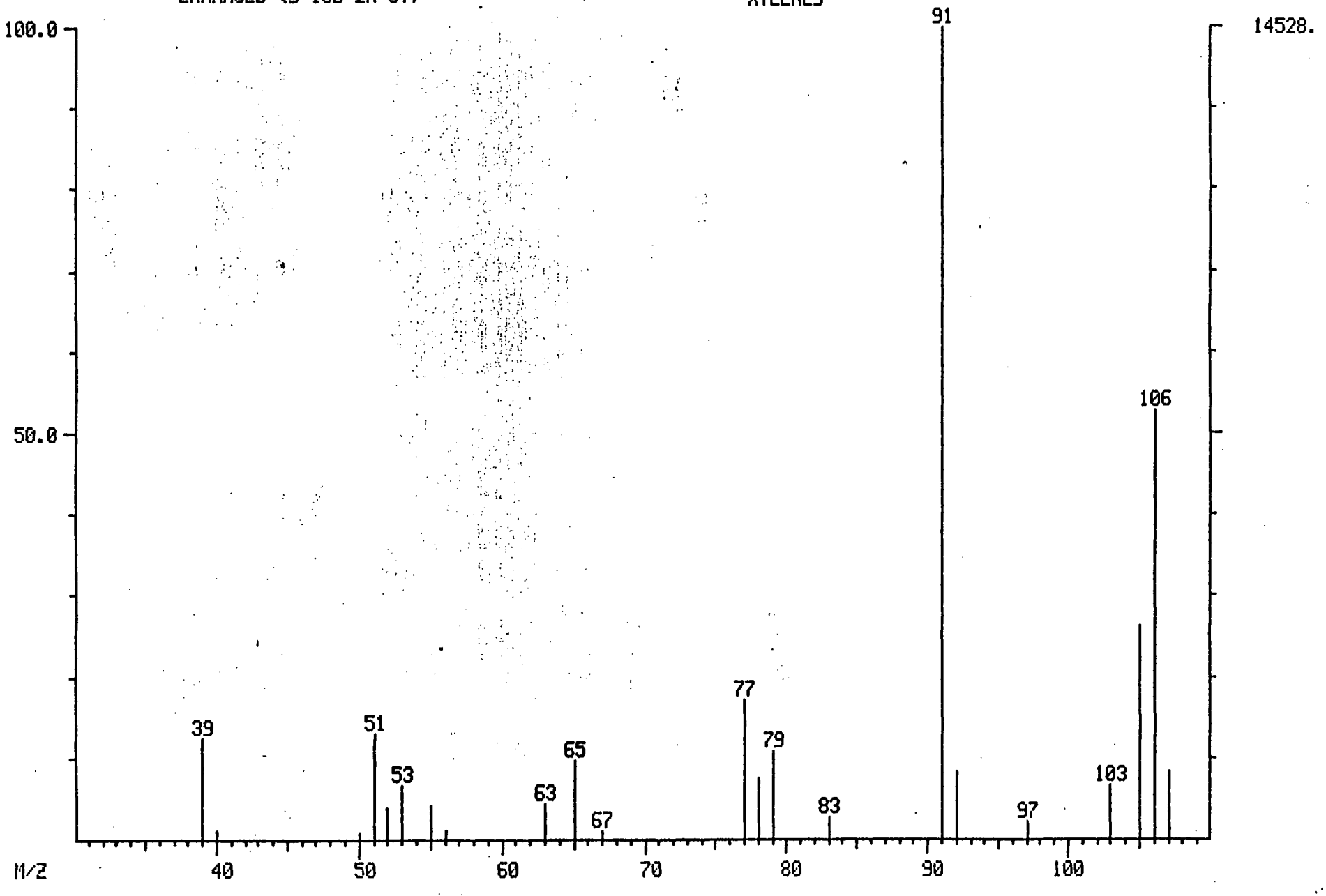
2/4

MID MASS SPECTRUM
08/19/87 20:32:00 + 26:55
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 #856
CALI: 14558V6R4 #2

BASE M/Z: 91
RIC: 43776.

XYLENES

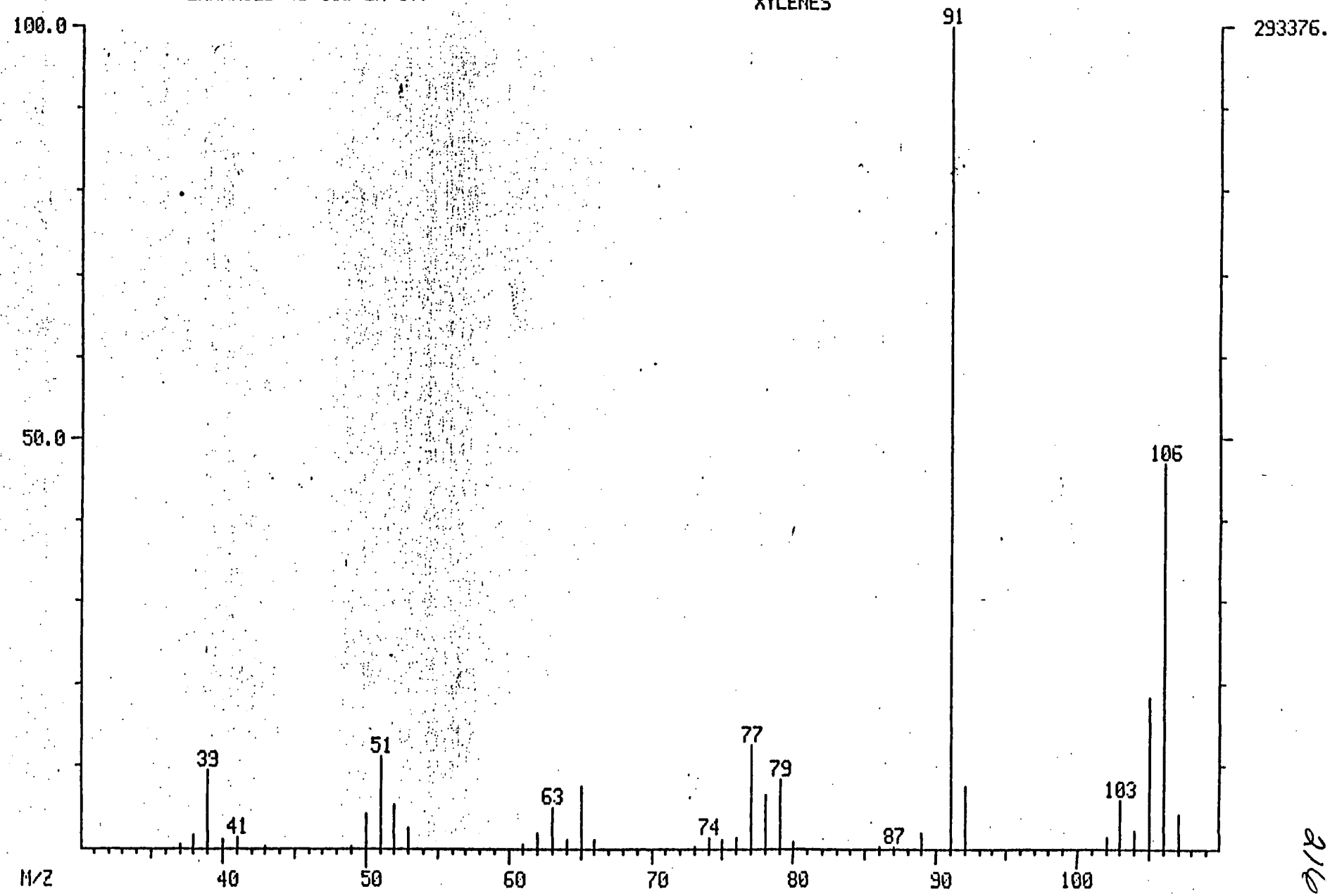


MID MASS SPECTRUM
02/21/87 11:08:00 + 27:26
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #874
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 808960.

XYLENES



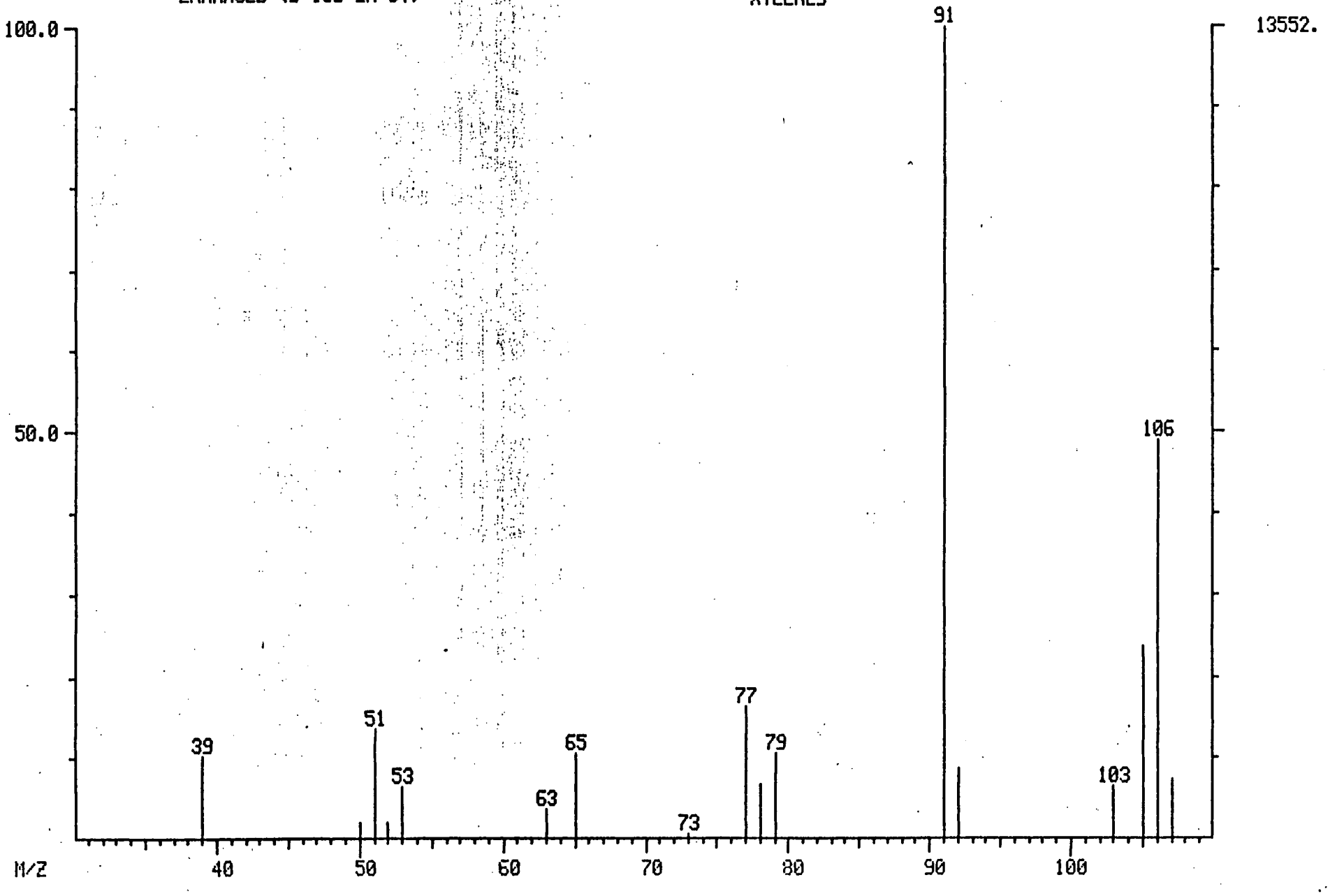
216

MID MASS SPECTRUM
08/19/87 20:32:00 + 27:28
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 #874
CALI: 14558V6R4 #2

BASE M/Z: 91
RIC: 37504.

XYLENES



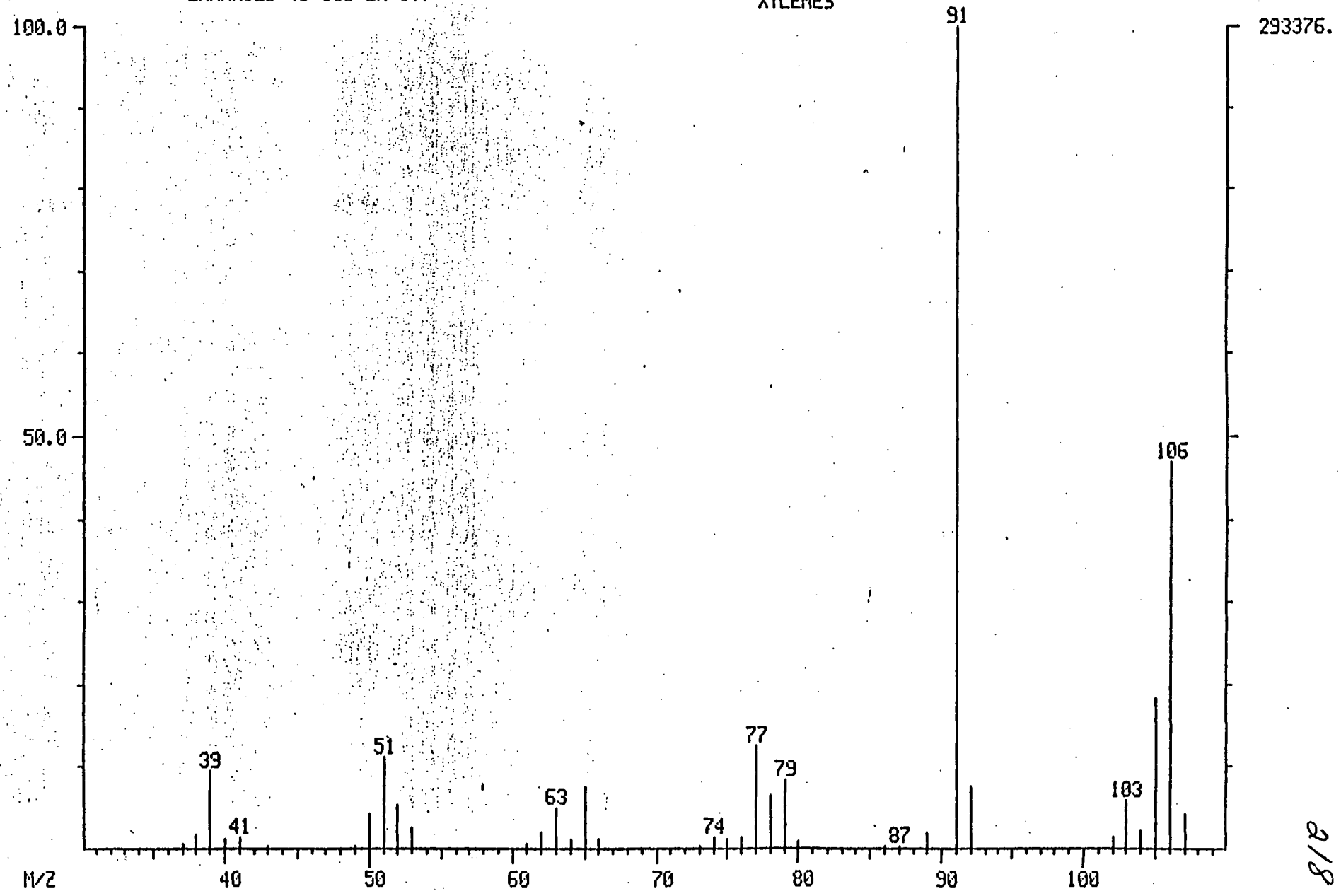
21.7

MID MASS SPECTRUM
02/21/87 11:08:00 + 27:26
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #874
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 808960.

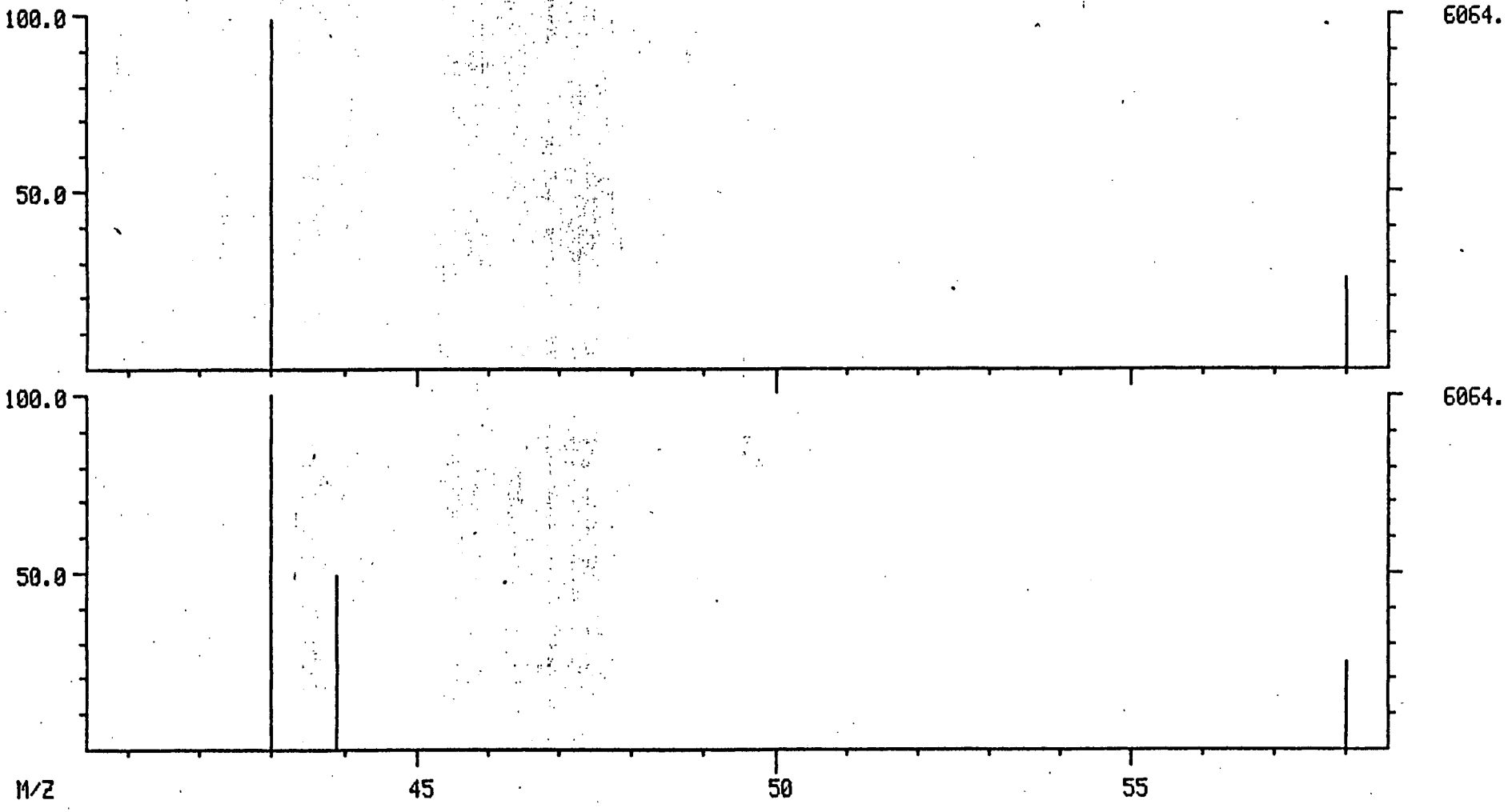
XYLENES



218

MID DUAL MASS SPECTRUM
08/19/87 20:32:00 + 5:04
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 60 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 #161 BASE M/Z: 43/ 43
CALI: 14558V6R4 #2 RIC: 7503./ 10559.

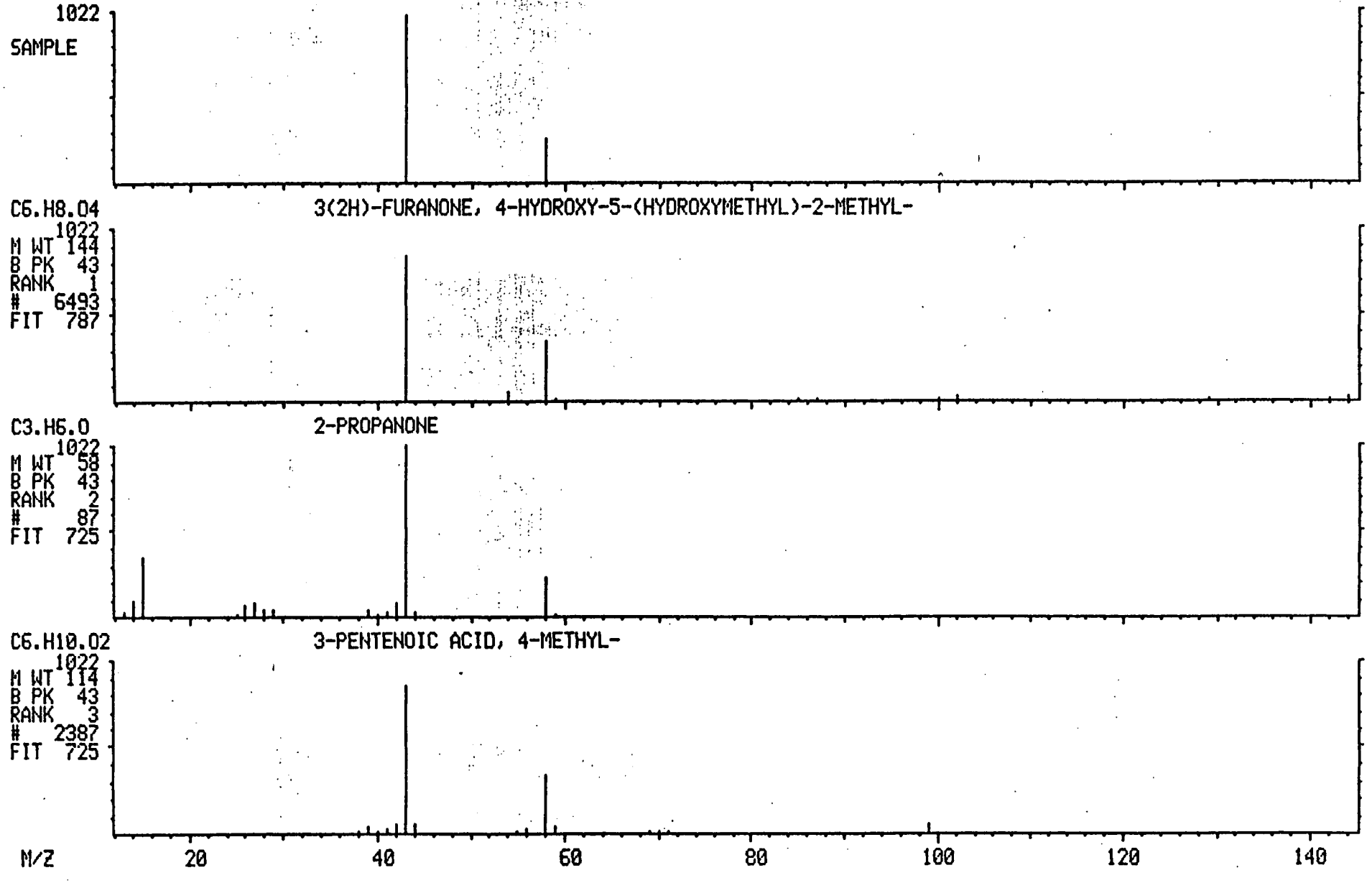


2/0

MID LIBRARY SEARCH
08/19/87 20:32:00 + 5:04
SAMPLE: 14558-6
CONDS.: 5.2906 G
ENHANCED (S 15B 2N 0T)

DATA: 14558VER4 # 161
CALI: 14558VER4 # 2

BASE M/Z: 43
RIC: 7503.



220

MID Library Search Data: 14558V6R4 # 161 Base m/z: 43
08/19/87 20:32:00 + 5:04 Cali: 14558V6R4 # 2 RIC: 7503.
Sample: 14558-6
Conds.: 5.2906 G
Enhanced (S 15B 2N OT)

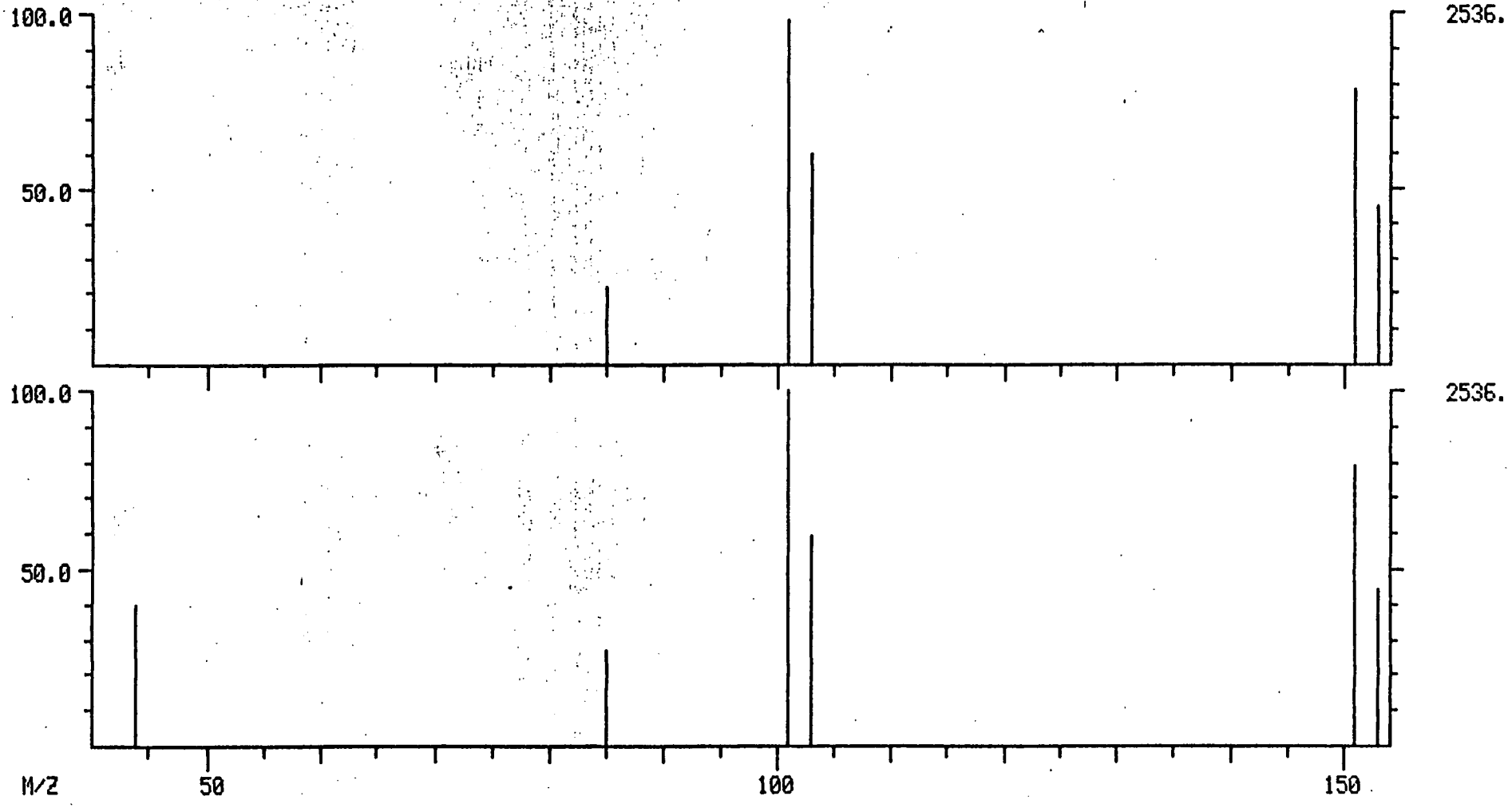
Rank	In.	Name
1	6493	3(2H)-FURANONE, 4-HYDROXY-5-(HYDROXYMETHYL)-2-METHYL-
2	87	2-PROPANONE
3	2387	3-PENTENOIC ACID, 4-METHYL-
4	3060	2-PENTANONE, 5-CHLORO-
5	7235	1,2,4,5-TETROXANE, 3,3,6,6-TETRAMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H8.O4	144	43	787	787	988
2	C3.H6.O	58	43	725	725	1000
3	C6.H10.O2	114	43	725	725	991
4	C5.H9.O.CL	120	43	698	698	997
5	C6.H12.O4	148	43	660	660	959

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	66727-94-4
2	___	___	___	___	67-64-1
3	___	___	___	___	504-85-8
4	___	___	___	___	5891-21-4
5	___	___	___	___	1073-91-2

MID DUAL MASS SPECTRUM
08/19/87 20:32:00 + 10:00
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 99 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 #318 BASE M/Z: 101/ 101
CALI: 14558V6R4 #2 RIC: 7703./ 8879.

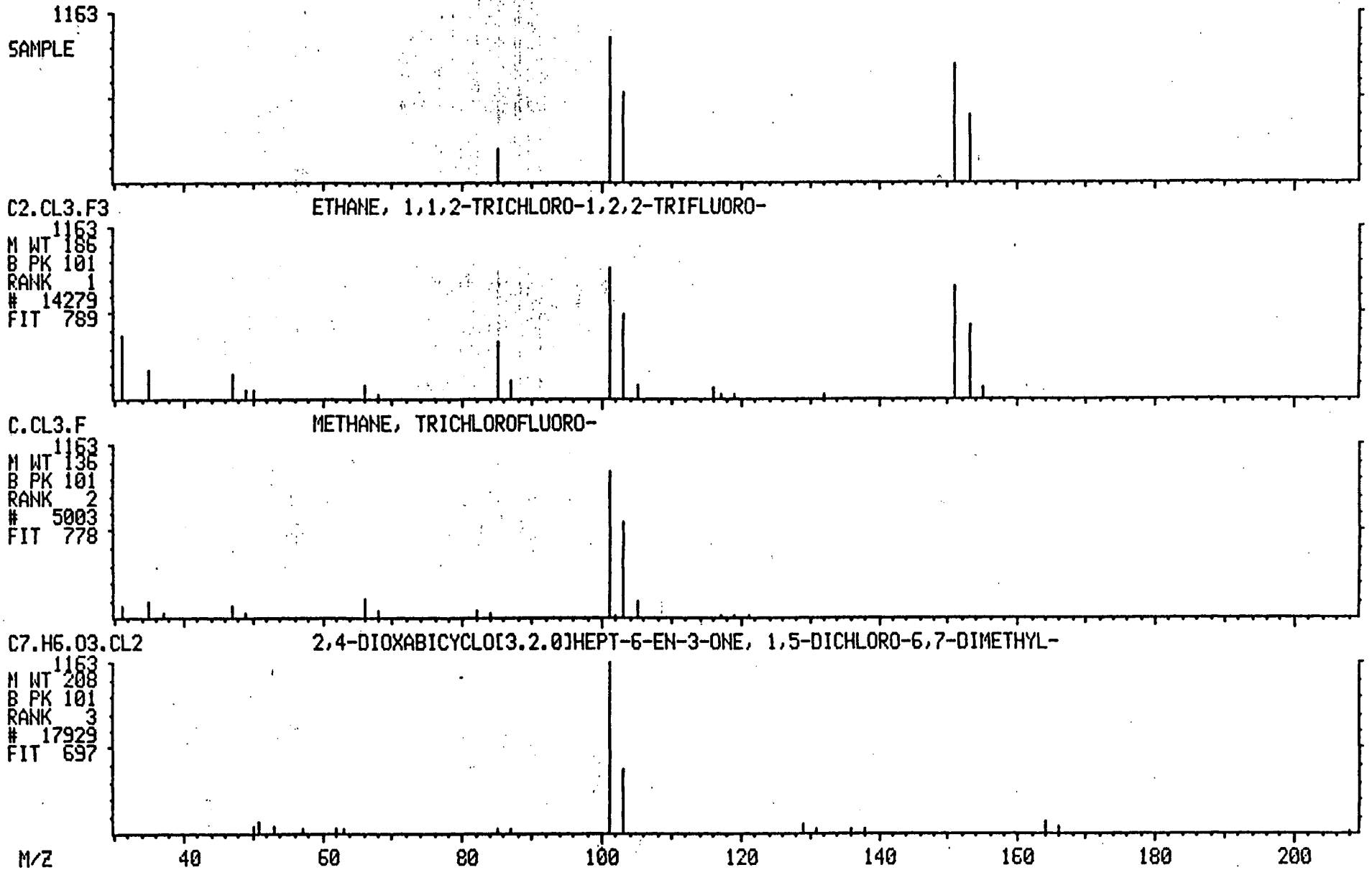


222

MID LIBRARY SEARCH
08/19/87 20:32:00 + 10:00
SAMPLE: 14558-6
CONDS.: 5.2906 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 # 318
CALI: 14558V6R4 # 2

BASE M/Z: 101
RIC: 7703.



223

MID Library Search Data: 14558V6R4 # 318 Base m/z: 101
08/19/87 20:32:00 + 10:00 Cali: 14558V6R4 # 2 RIC: 7703.
Sample: 14558-6
Conds.: 5.2906 G
Enhanced (S 15B 2N 0T)

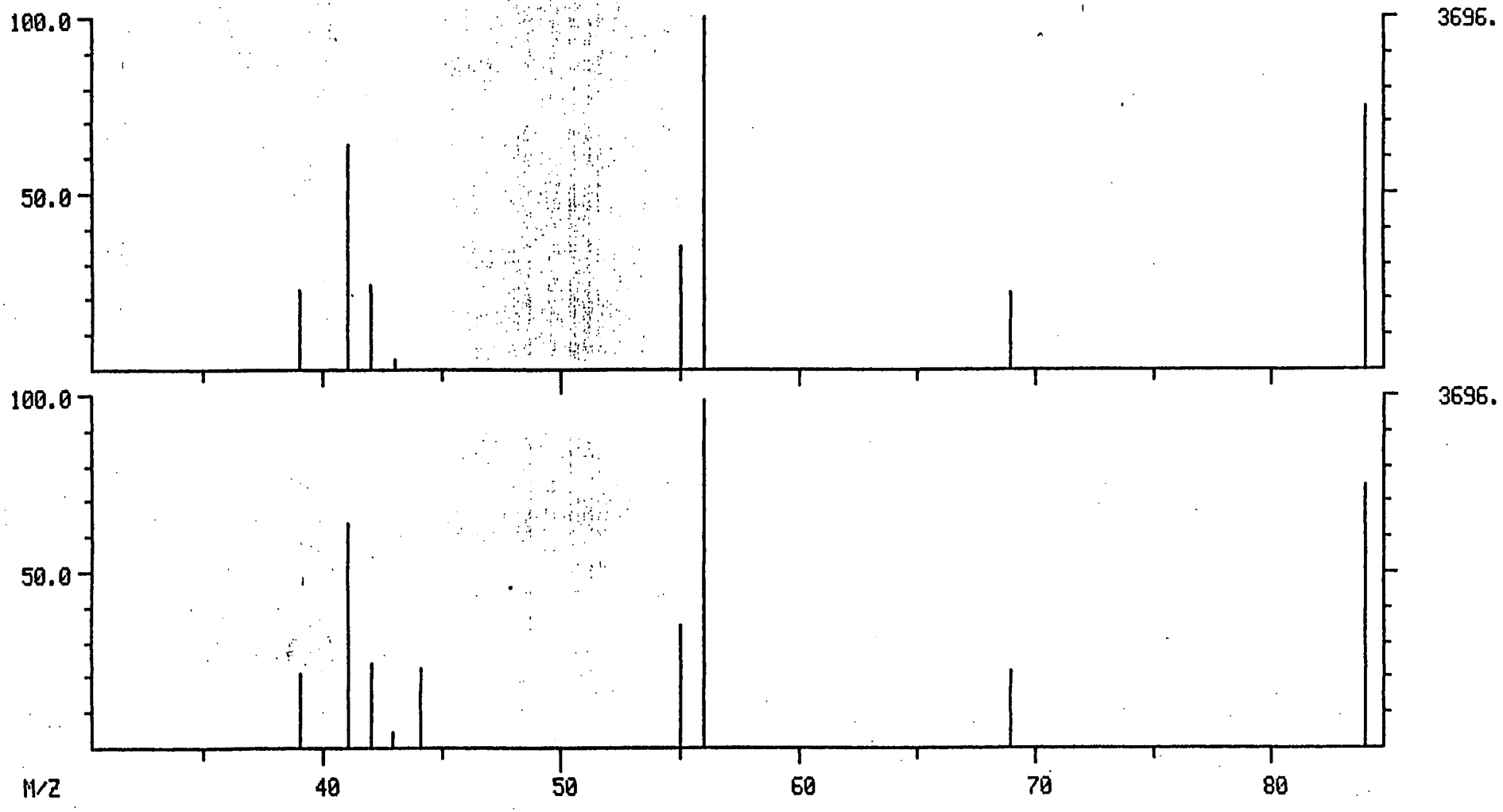
Rank	In.	Name
1	14279	ETHANE, 1,1,2-TRICHLORO-1,2,2-TRIFLUORO-
2	5003	METHANE, TRICHLOROFLUORO-
3	17929	2,4-DIOXABICYCLO[3.2.0]HEPT-6-EN-3-ONE, 1,5-DICHLORO-6,7-DIMETHYL-
4	1379	3H-1,2,4-TRIAZOLE-3-THIONE, 1,2-DIHYDRO-
5	29503	BUTANE, 2,2,3,3-TETRACHLORO-1,1,1,4,4,4-HEXAFLUORO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C2.CL3.F3	186	101	789	789	993
2	C.CL3.F	136	101	341	778	439
3	C7.H6.O3.CL2	208	101	342	697	464
4	C2.H3.N3.S	101	101	158	587	270
5	C4.CL4.F6	302	151	549	549	830

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	76-13-1
2	___	___	___	___	75-69-4
3	___	___	___	___	35436-20-5
4	___	___	___	___	3179-31-5
5	___	___	___	___	375-34-8

MID DUAL MASS SPECTRUM
08/19/87 20:32:00 + 11:57
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 115 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 #380 BASE M/Z: 56/ 56
CALI: 14558V6R4 #2 RIC: 12703./ 13519.

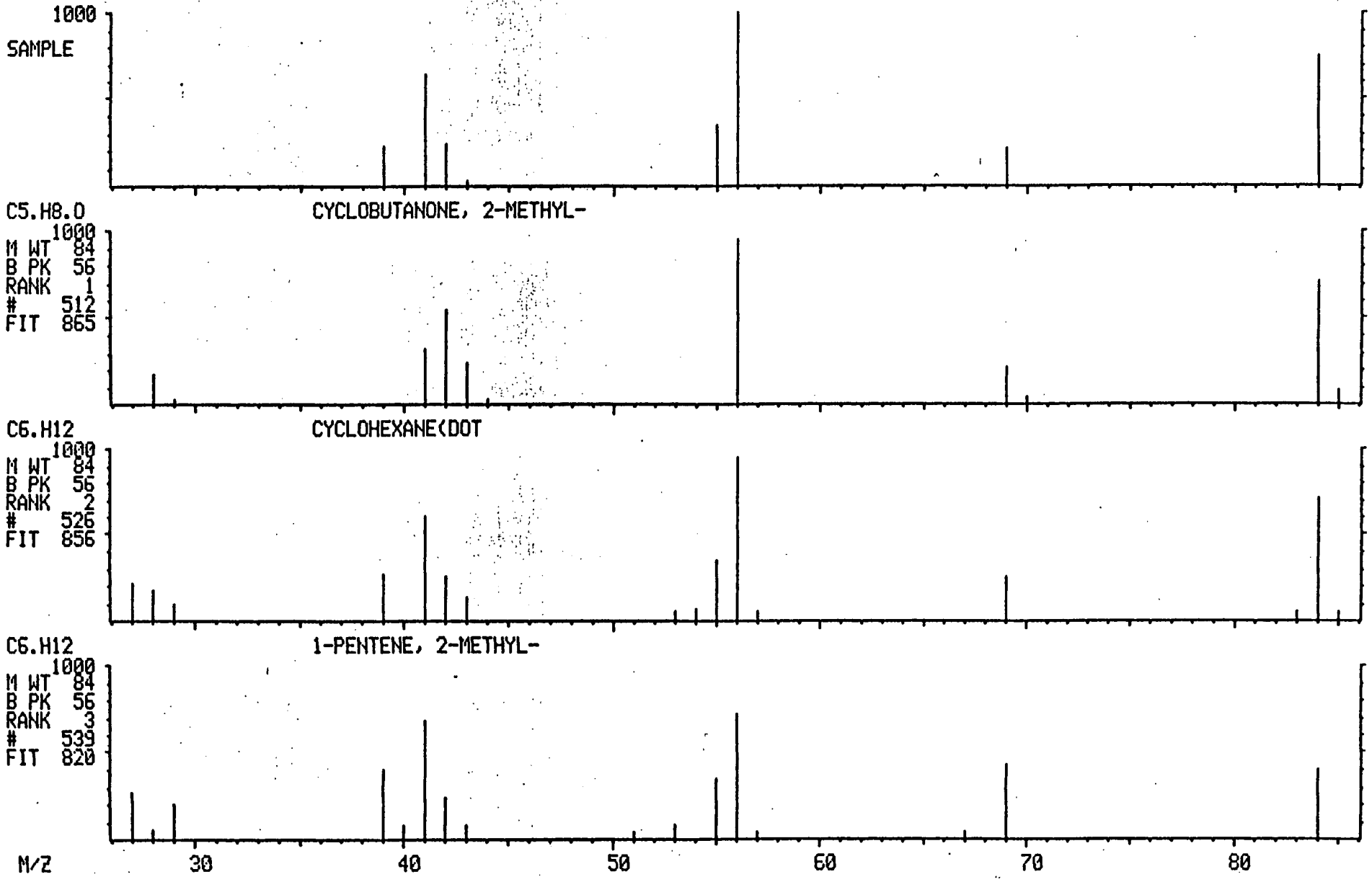


225

MID LIBRARY SEARCH
08/19/87 20:32:00 + 11:57
SAMPLE: 14558-6
CONDS.: 5.2906 G
ENHANCED (5 15B 2N 0T)

DATA: 14558V6R4 # 380
CALI: 14558V6R4 # 2

BASE M/Z: 56
RIC: 12703.



226

MID Library Search Data: 14558V6R4 # 380 Base m/z: 56
08/19/87 20:32:00 + 11:57 Cali: 14558V6R4 # 2 RIC: 12703.
Sample: 14558-6
Conds.: 5.2906 G
Enhanced (S 15B 2N OT)

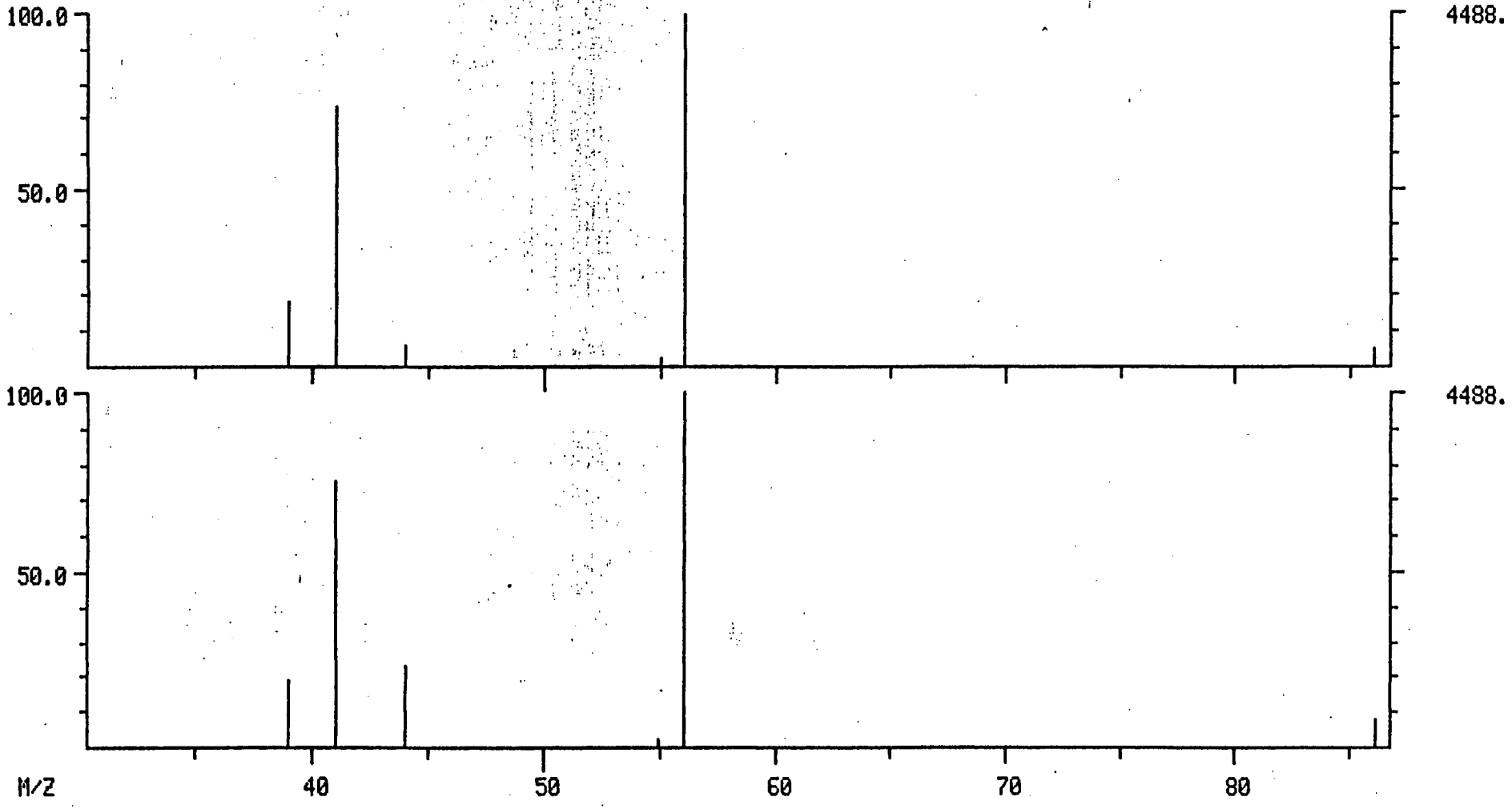
Rank	In.	Name
1	512	CYCLOBUTANONE, 2-METHYL-
2	526	CYCLOHEXANE(DOT
3	539	1-PENTENE, 2-METHYL-
4	530	1-HEXENE
5	547	3-HEXENE, (Z)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C5.H8.O	84	56	742	865	812
2	C6.H12	84	56	856	856	991
3	C6.H12	84	56	820	820	953
4	C6.H12	84	41	809	809	931
5	C6.H12	84	84	762	762	880

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	1517-15-3
2	—	—	—	—	110-82-7
3	—	—	—	—	763-29-1
4	—	—	—	—	592-41-6
5	—	—	—	—	7642-09-3

MID DUAL MASS SPECTRUM
08/19/87 20:32:00 + 12:44
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 121 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 #405 BASE M/Z: 56/ 56
CALI: 14558V6R4 #2 RIC: 9135./ 10239.

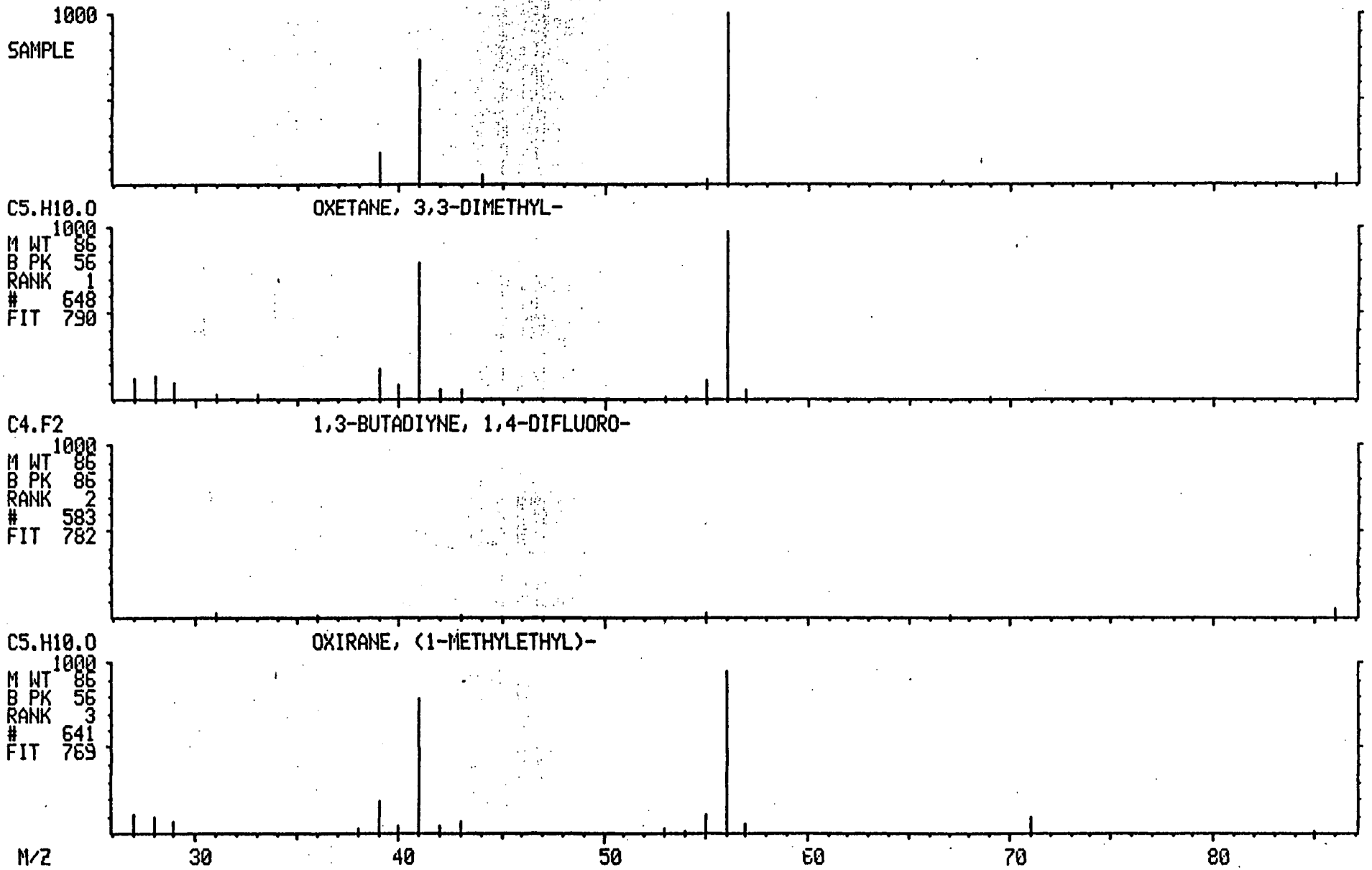


225

MID LIBRARY SEARCH
08/19/87 20:32:00 + 12:44
SAMPLE: 14558-6
CONDS.: 5.2906 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 # 405
CALI: 14558V6R4 # 2

BASE M/Z: 56
RIC: 9135.



229

MID Library Search Data: 14558V6R4 # 405 Base m/z: 56
08/19/87 20:32:00 + 12:44 Cali: 14558V6R4 # 2 RIC: 9135.
Sample: 14558-6
Conds.: 5.2906 G
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	648	OXETANE, 3,3-DIMETHYL-
2	583	1,3-BUTADIYNE, 1,4-DIFLUORO-
3	641	OXIRANE, (1-METHYLETHYL)-
4	1895	CYCLOBUTANECARBONITRILE, 3,3-DIMETHYL-
5	74	1-PROPENE, 2-METHYL-

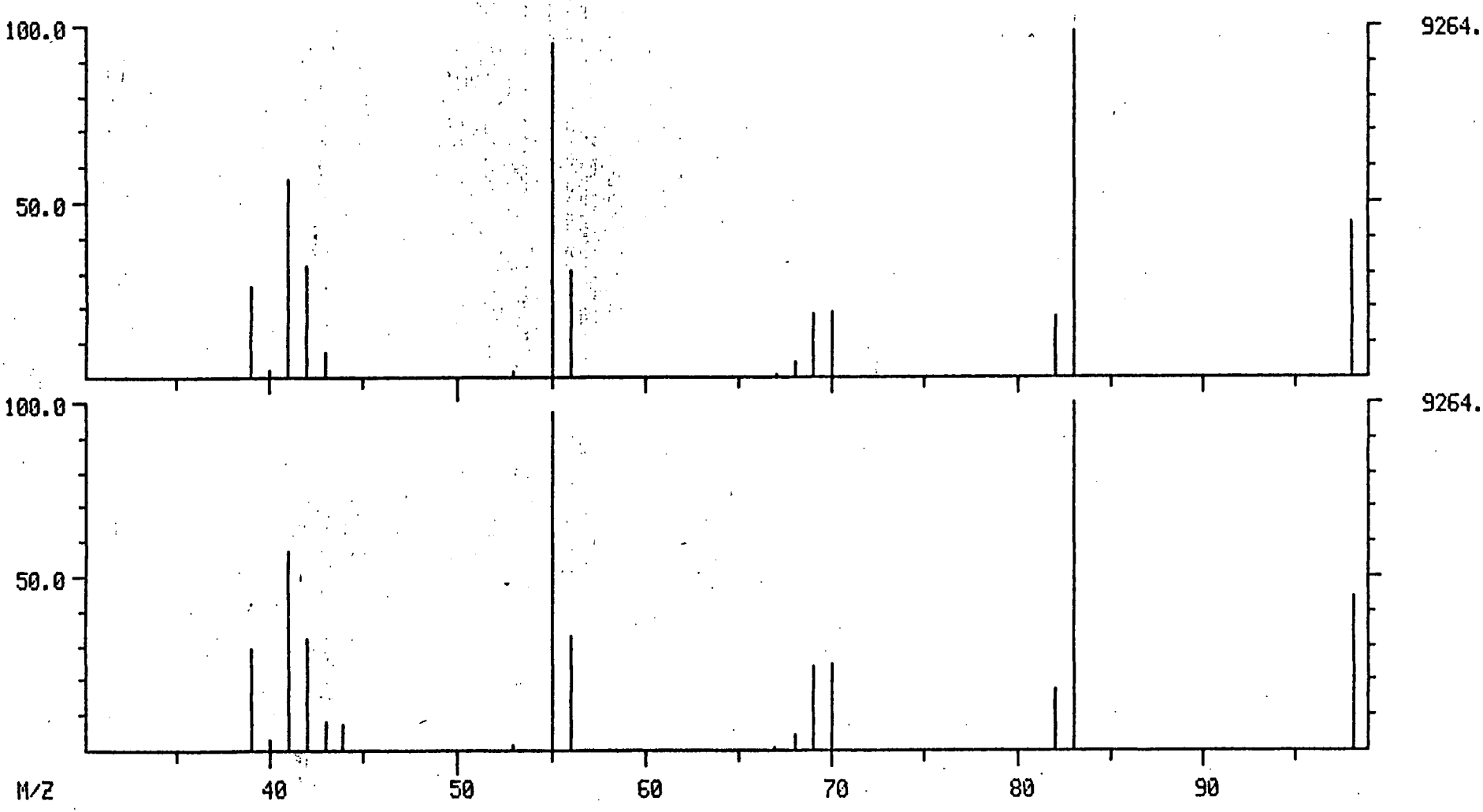
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C5.H10.O	86	56	736	790	914
2	C4.F2	86	86	43	782	55
3	C5.H10.O	86	56	716	769	911
4	C7.H11.N	109	56	692	743	907
5	C4.H8	56	41	667	717	831

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	6921-35-3
2	___	___	___	___	64788-23-4
3	___	___	___	___	1438-14-8
4	___	___	___	___	53783-86-1
5	___	___	___	___	115-11-7

MID DUAL MASS SPECTRUM
08/19/87 20:32:00 + 17:25
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 159 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 #554
CALI: 14558V6R4 #2

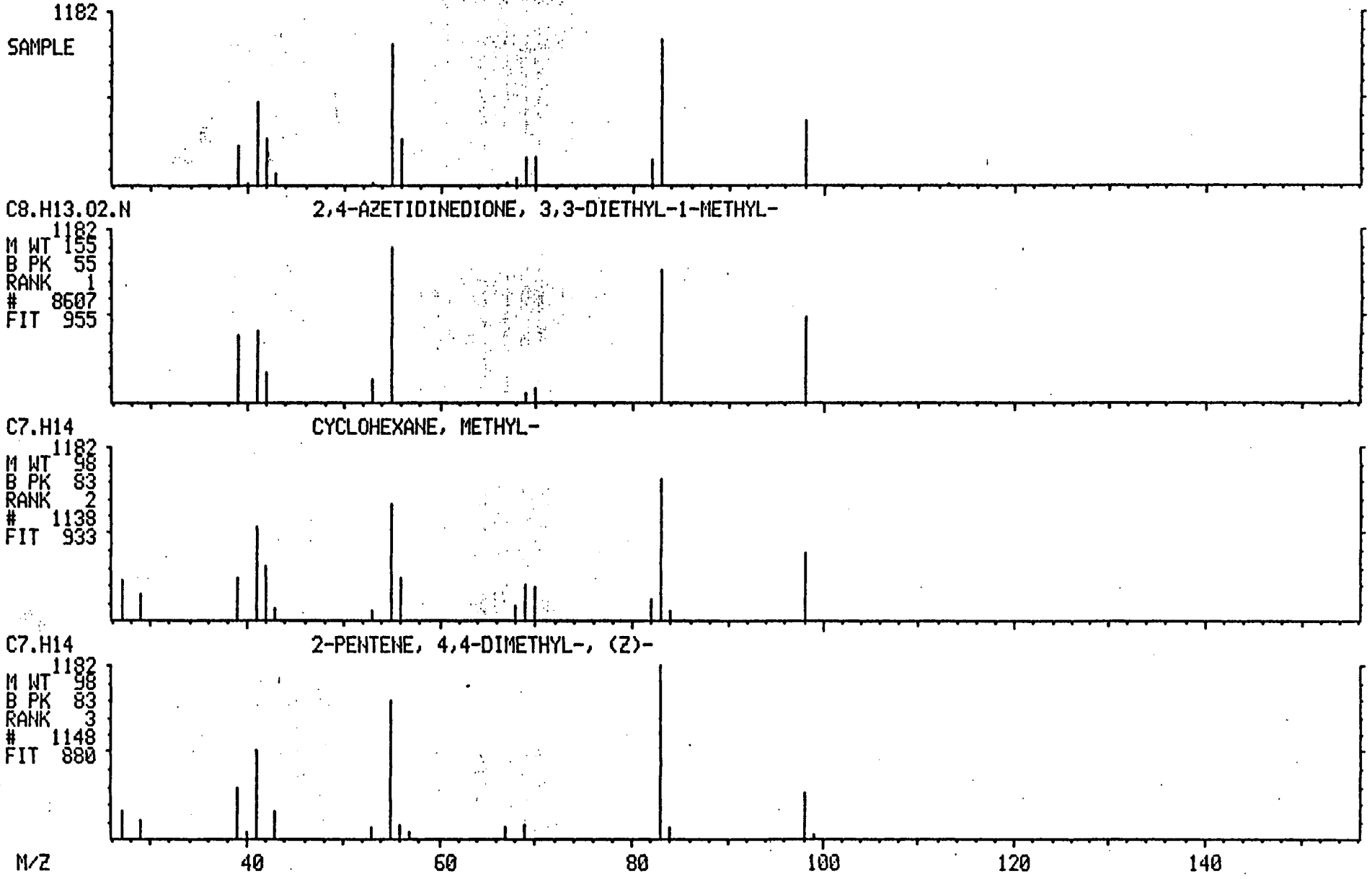
BASE M/Z: 83/ 83
RIC: 41919./ 44991.



MID LIBRARY SEARCH
08/19/87 20:32:00 + 17:25
SAMPLE: 14558-6
CONDS.: 5.2906 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 # 554
CALI: 14558V6R4 # 2

BASE M/Z: 83
RIC: 41919.



MID Library Search Data: 14558V6R4 # 554 Base m/z: 83
08/19/87 20:32:00 + 17:25 Cali: 14558V6R4 # 2 RIC: 41919.
Sample: 14558-6
Conds.: 5.2906 G
Enhanced (S 15B 2N OT)

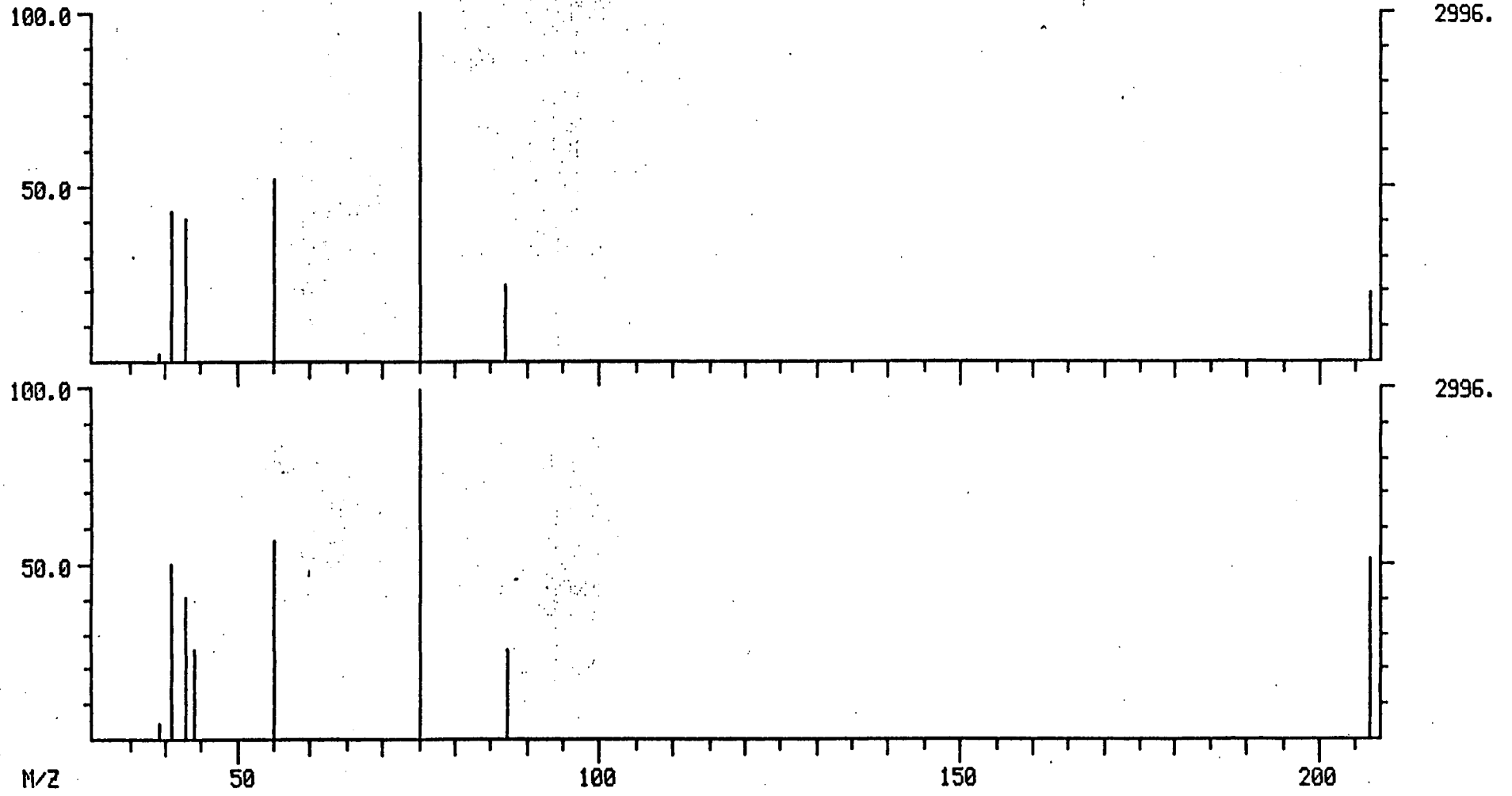
Rank	In.	Name
1	8607	2,4-AZETIDINEDIONE, 3,3-DIETHYL-1-METHYL-
2	1138	CYCLOHEXANE, METHYL-
3	1148	2-PENTENE, 4,4-DIMETHYL-, (Z)-
4	1177	2-PENTENE, 2,3-DIMETHYL-
5	1170	2-PENTENE, 3,4-DIMETHYL-, (Z)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H13.O2.N	155	55	827	955	831
2	C7.H14	98	83	929	933	986
3	C7.H14	98	83	746	880	808
4	C7.H14	98	83	776	873	852
5	C7.H14	98	83	772	867	839

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	——	——	——	——	69315-91-9
2	——	——	——	——	108-87-2
3	——	——	——	——	762-63-0
4	——	——	——	——	10574-37-5
5	——	——	——	——	4914-91-4

MID DUAL MASS SPECTRUM
08/19/87 20:32:00 + 19:56
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 180 DEG. C
ENHANCED (S 15B 2N 0T)

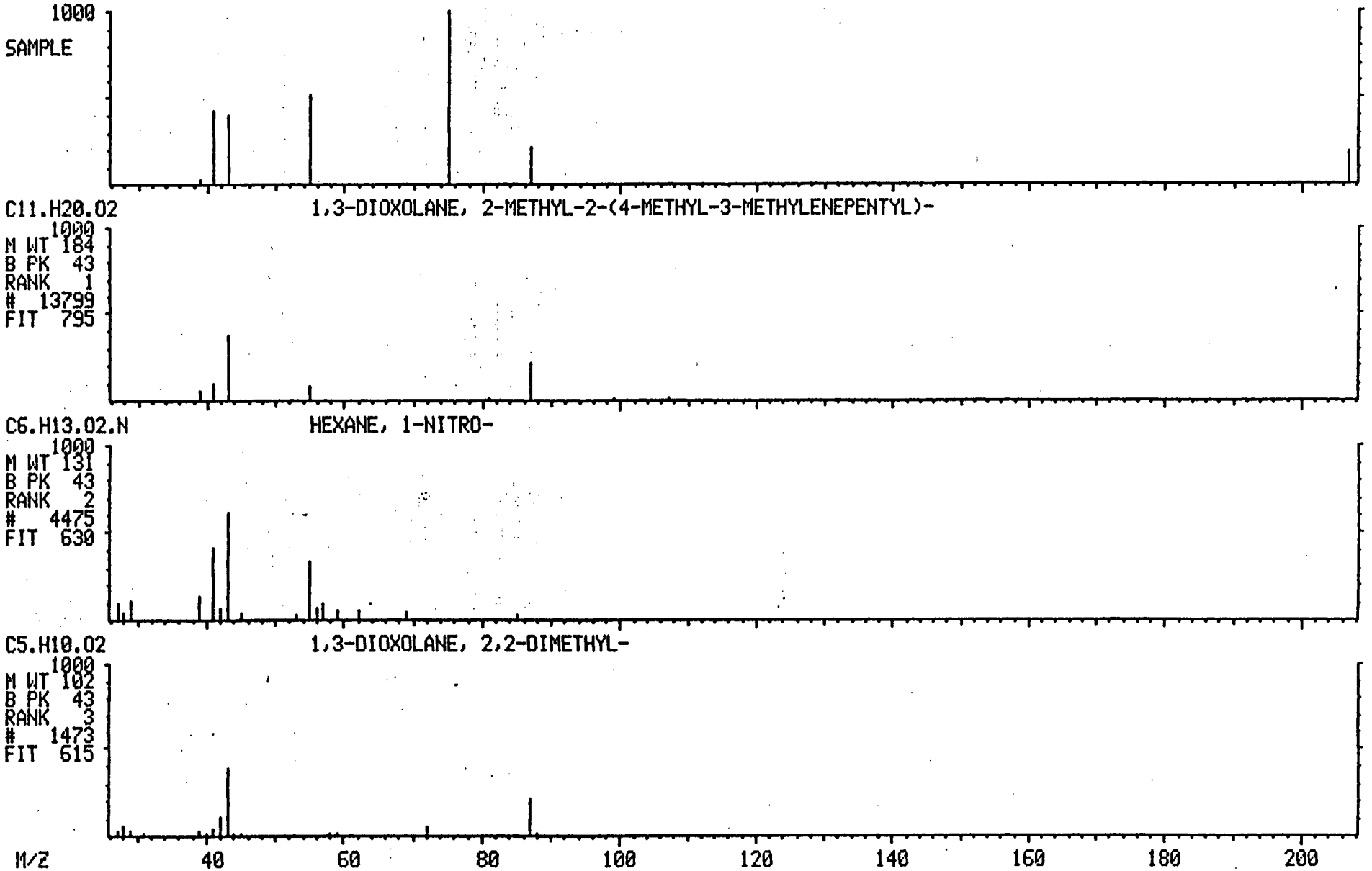
DATA: 14558V6R4 #634 BASE M/Z: 75/ 75
CALI: 14558V6R4 #2 RIC: 8351./ 10591.



MID LIBRARY SEARCH
08/19/87 20:32:00 + 19:56
SAMPLE: 14558-6
CONDS.: 5.2906 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 # 634
CALI: 14558V6R4 # 2

BASE M/Z: 75
RIC: 8351.



MID Library Search
08/19/87 20:32:00 + 19:56
Sample: 14558-6
Conds.: 5.2906 G
Enhanced (S 15B 2N OT)

Data: 14558V6R4 # 634
Cali: 14558V6R4 # 2

Base m/z: 75
RIC: 8351.

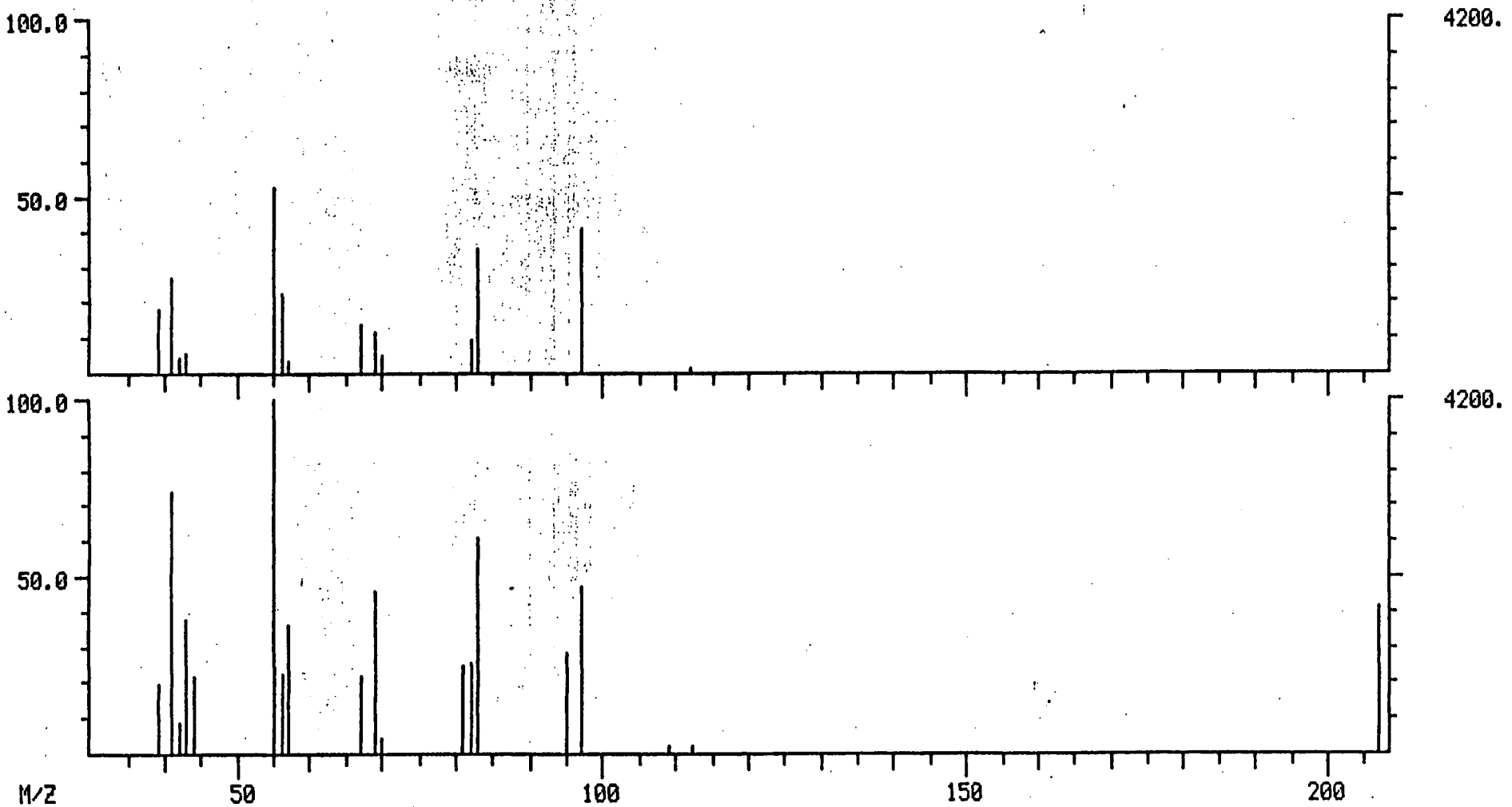
Rank	In.	Name
1	13799	1,3-DIOXOLANE, 2-METHYL-2-(4-METHYL-3-METHYLENEPENTYL)-
2	4475	HEXANE, 1-NITRO-
3	1473	1,3-DIOXOLANE, 2,2-DIMETHYL-
4	16644	OXIRENO[4,5]CYCLOPENTA[1,2-C]PYRAN-2(1AH)-ONE, HEXAHYDRO-5A,6-DIHYD*
5	2169	3-HEPTEN-2-ONE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H20.O2	184	43	334	795	354
2	C6.H13.O2.N	131	43	205	630	307
3	C5.H10.O2	102	43	169	615	236
4	C9.H12.O5	200	43	249	599	375
5	C7.H12.O	112	55	191	587	310

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	66972-05-2
2	___	___	___	___	646-14-0
3	___	___	___	___	2916-31-6
4	___	___	___	___	35904-75-7
5	___	___	___	___	1119-44-4

MID DUAL MASS SPECTRUM
08/19/87 20:32:00 + 22:02
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 196 DEG. C
ENHANCED (S 15B 2N 0T)

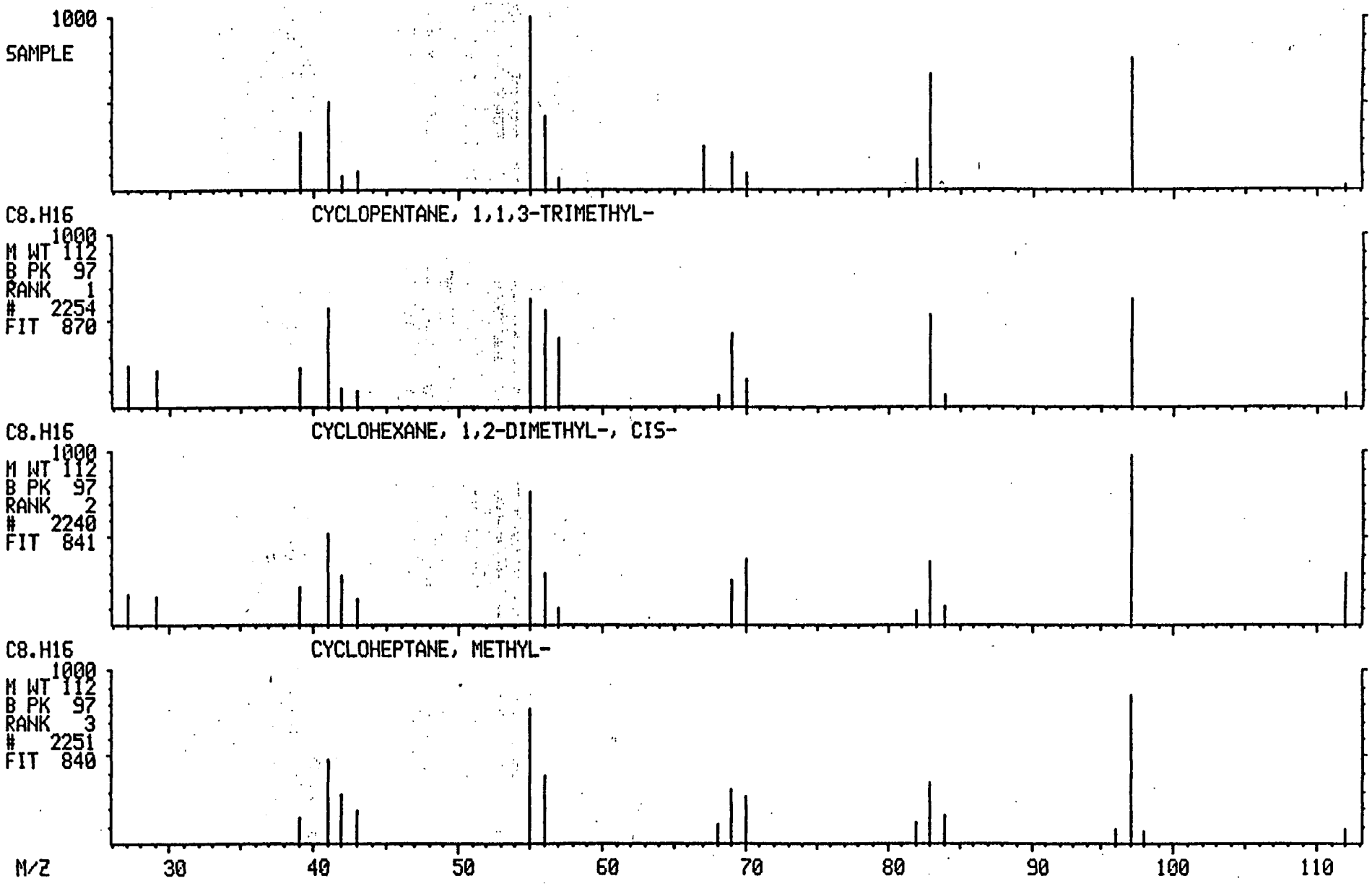
DATA: 14558V6R4 #701 BASE M/Z: 55/ 55
CALI: 14558V6R4 #2 RIC: 10543./ 26239.



MID LIBRARY SEARCH
08/19/87 20:32:00 + 22:02
SAMPLE: 14558-6
CONDS.: 5.2906 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 # 701
CALI: 14558V6R4 # 2

BASE M/Z: 55
RIC: 10543.



238

MID Library Search
08/19/87 20:32:00 + 22:02
Sample: 14558-6
Conds.: 5.2906 G
Enhanced (S 15B 2N OT)

Data: 14558V6R4 # 701
Cali: 14558V6R4 # 2

Base m/z: 55
RIC: 10543.

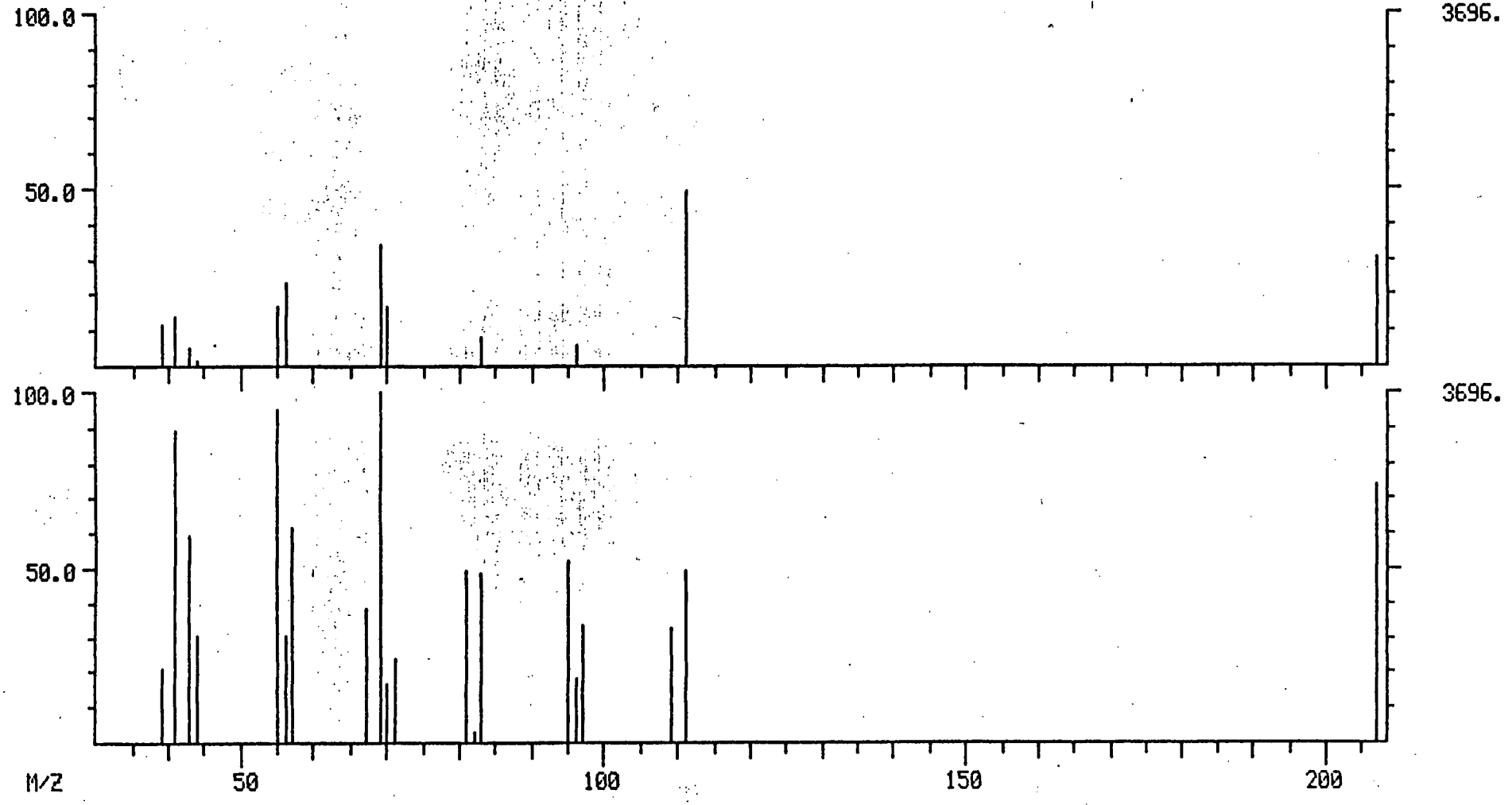
Rank	In.	Name
1	2254	CYCLOPENTANE, 1,1,3-TRIMETHYL-
2	2240	CYCLOHEXANE, 1,2-DIMETHYL-, CIS-
3	2251	CYCLOHEPTANE, METHYL-
4	1153	CYCLOPENTANE, 1,1-DIMETHYL-
5	2233	3-HEXENE, 2,2-DIMETHYL-, (E)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H16	112	97	781	870	844
2	C8.H16	112	97	794	841	839
3	C8.H16	112	97	782	840	880
4	C7.H14	98	56	518	795	600
5	C8.H16	112	55	745	791	806

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	4516-69-2
2	—	—	—	—	2207-01-4
3	—	—	—	—	4126-78-7
4	—	—	—	—	1638-26-2
5	—	—	—	—	690-93-7

MID DUAL MASS SPECTRUM
08/19/87 20:32:00 + 23:35
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 208 DEG. C
ENHANCED (S 15B 2N 0T)

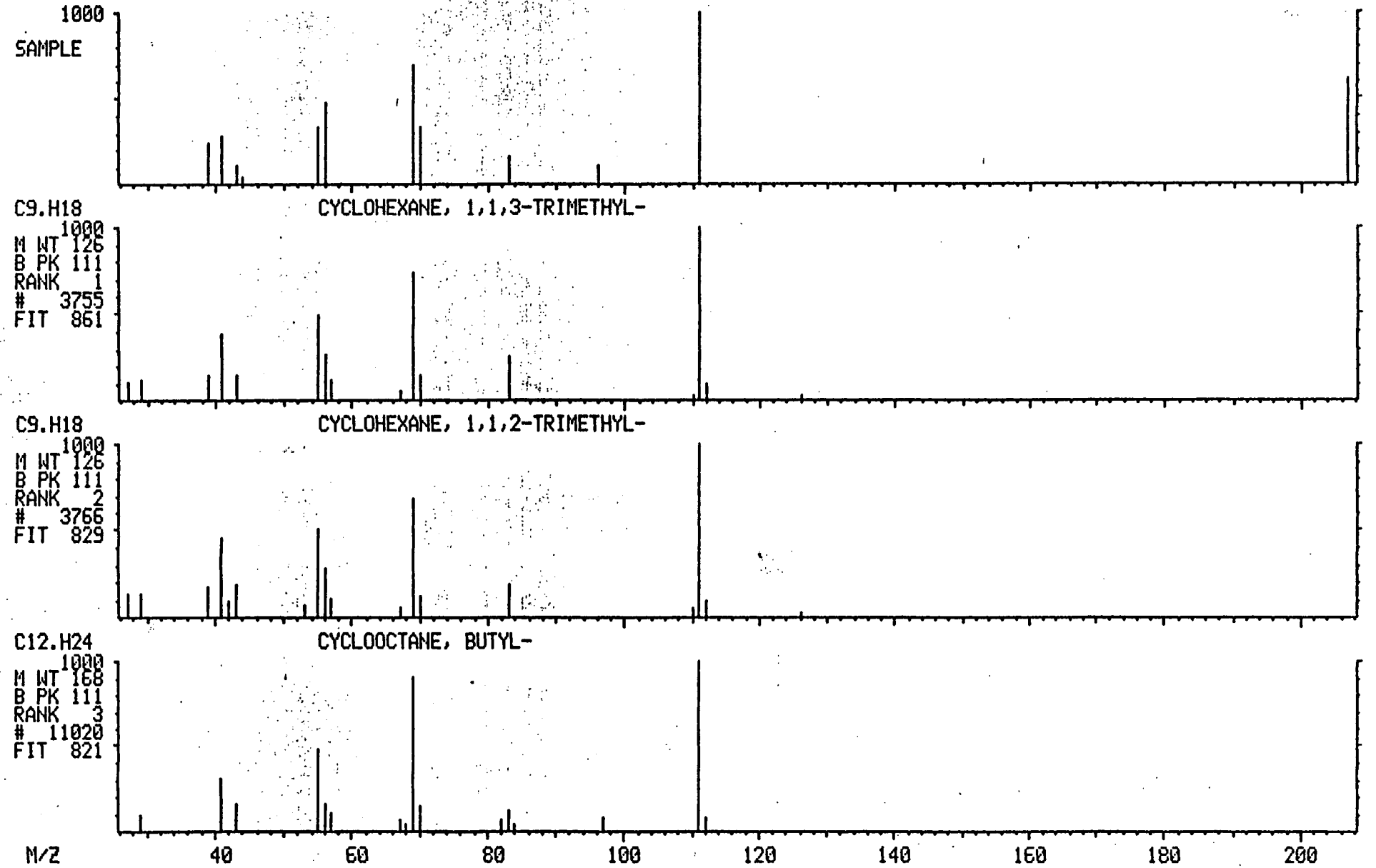
DATA: 14558V6R4 #750 BASE M/Z: 111/ 69
CALI: 14558V6R4 #2 RIC: 7967./ 34175.



MID LIBRARY SEARCH
08/19/87 20:32:00 + 23:35
SAMPLE: 14558-6
CONDS.: 5.2906 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 # 750
CALI: 14558V6R4 # 2

BASE M/Z: 111
RIC: 7967.



168

MID Library Search Data: 14558V6R4 # 750 Base m/z: 111
08/19/87 20:32:00 + 23:35 Cali: 14558V6R4 # 2 RIC: 7967.
Sample: 14558-6
Conds.: 5.2906 G
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	3755	CYCLOHEXANE, 1,1,3-TRIMETHYL-
2	3766	CYCLOHEXANE, 1,1,2-TRIMETHYL-
3	11020	CYCLOOCTANE, BUTYL-
4	3771	CYCLOPENTANE, 1,1,3,4-TETRAMETHYL-, TRANS-
5	1153	CYCLOPENTANE, 1,1-DIMETHYL-

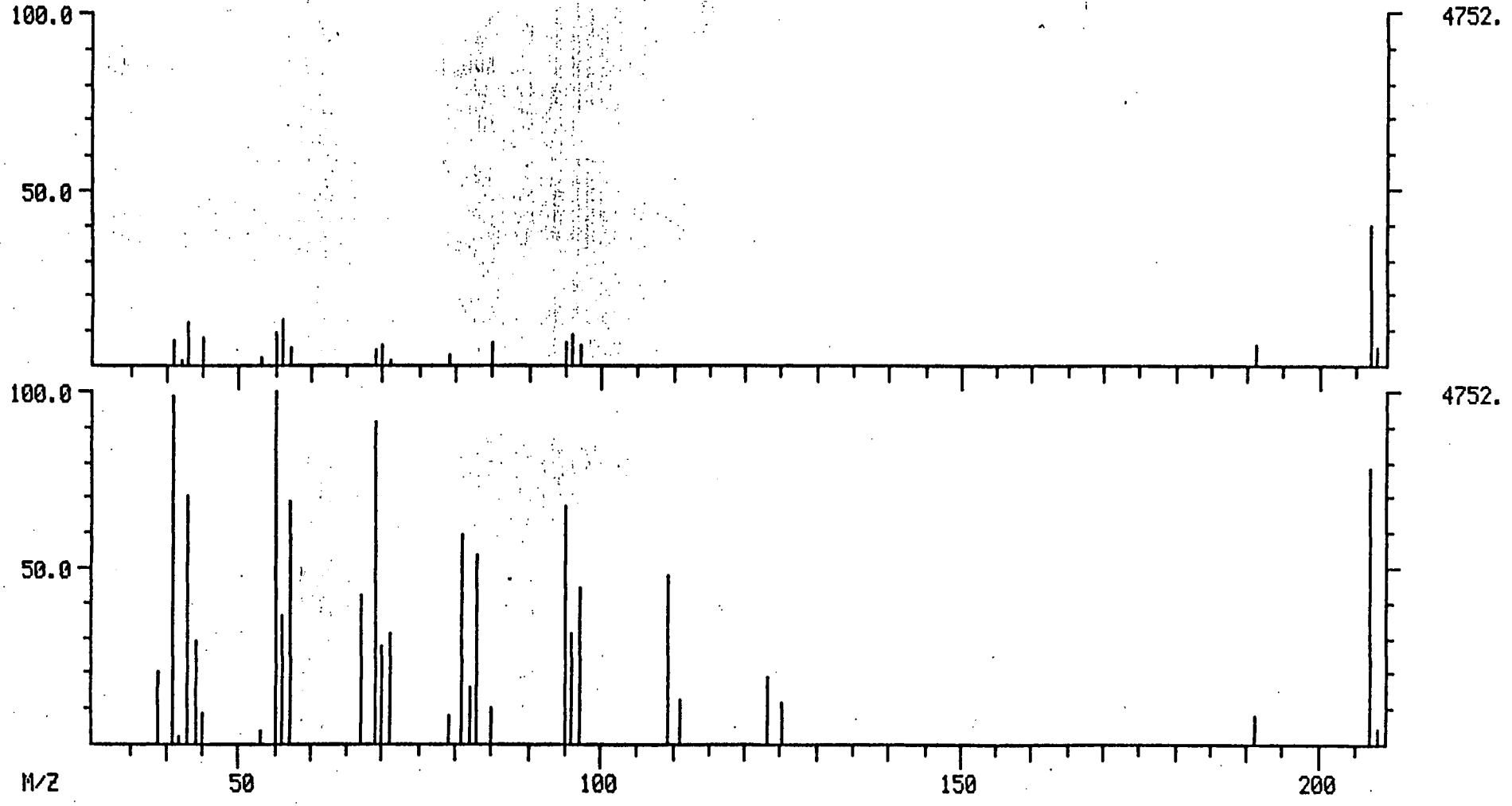
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	111	565	861	638
2	C9.H18	126	111	544	829	637
3	C12.H24	168	111	521	821	609
4	C9.H18	126	111	524	798	598
5	C7.H14	98	56	304	793	355

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	3073-66-3
2	___	___	___	___	7094-26-0
3	___	___	___	___	16538-93-5
4	___	___	___	___	20309-77-7
5	___	___	___	___	1638-26-2

MID DUAL MASS SPECTRUM
08/19/87 20:32:00 + 24:52
SAMPLE: 14558-6
CONDS.: 5.2906 G
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 #791
CALI: 14558V6R4 #2

BASE M/Z: 207/ 55
RIC: 7223./ 52287.

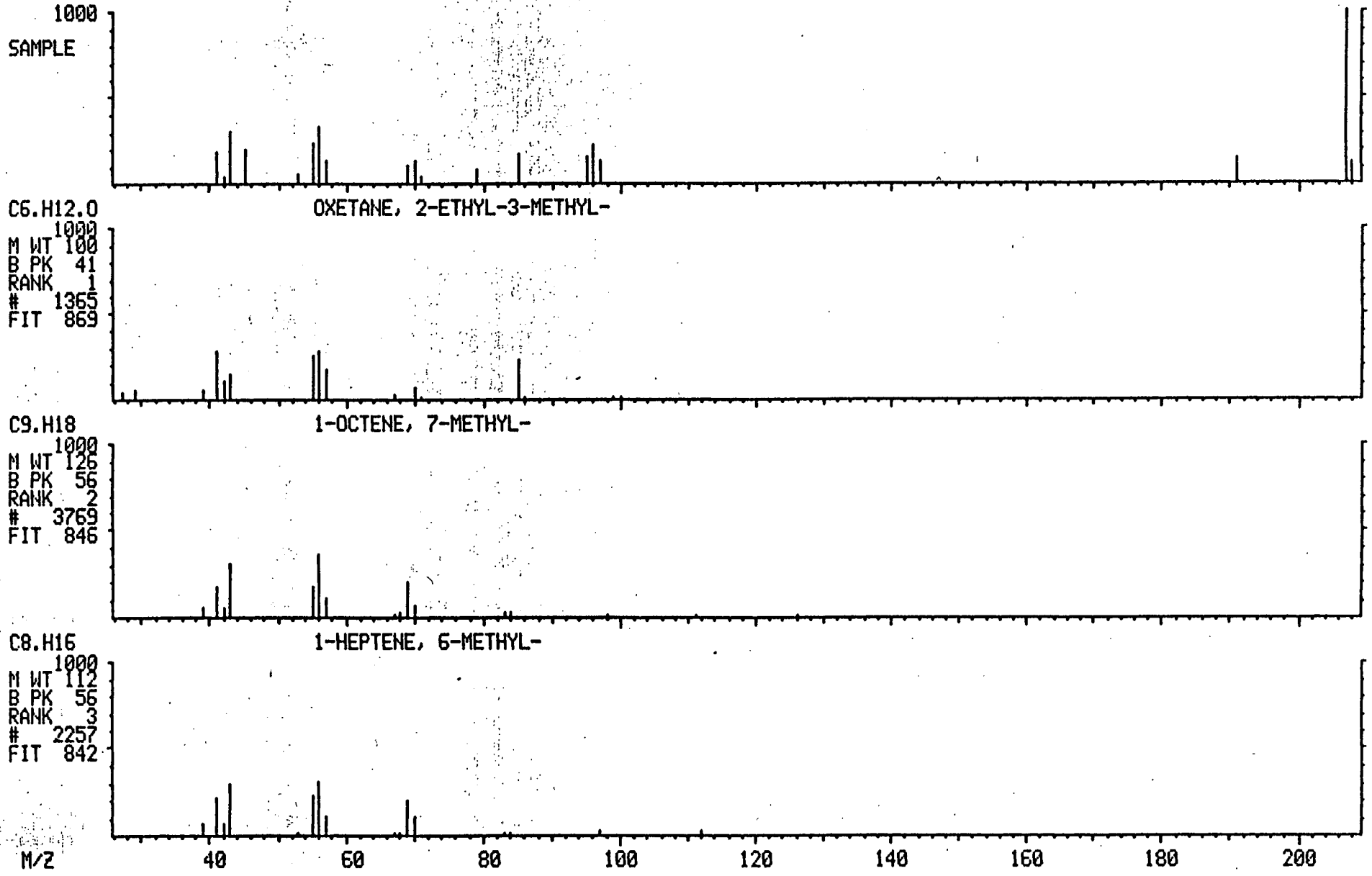


243

MID LIBRARY SEARCH
08/19/87 20:32:00 + 24:52
SAMPLE: 14558-6
CONDS.: 5.2906 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V6R4 # 791
CALI: 14558V6R4 # 2

BASE M/Z: 207
RIC: 7223.



244

MID Library Search Data: 14558V6R4 # 791 Base m/z: 207
08/19/87 20:32:00 + 24:52 Cali: 14558V6R4 # 2 RIC: 7223.
Sample: 14558-6
Conds.: 5.2906 G
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	1365	OXETANE, 2-ETHYL-3-METHYL-
2	3769	1-OCTENE, 7-METHYL-
3	2257	1-HEPTENE, 6-METHYL-
4	1361	FURAN, TETRAHYDRO-2,4-DIMETHYL-, TRANS-
5	2949	HEPTANE, 1-FLUORO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H12.O	100	41	182	869	199
2	C9.H18	126	56	157	846	180
3	C8.H16	112	56	188	842	210
4	C6.H12.O	100	56	170	840	194
5	C7.H15.F	118	43	160	832	184

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	53778-62-4
2	———	———	———	———	13151-06-9
3	———	———	———	———	5026-76-6
4	———	———	———	———	39168-02-0
5	———	———	———	———	661-11-0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0811751-R2

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-7R2

Sample wt/vol: 5.6 (g/mL) G Lab File ID: 14558V7R2

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 40 Date Analyzed: 08/19/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
74-83-9	Bromomethane	17	U
75-01-4	Vinyl Chloride	17	U
75-00-3	Chloroethane	17	U
75-09-2	Methylene Chloride	13	X
67-64-1	Acetone	17	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	17	U
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
108-05-4	Vinyl Acetate	17	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
110-75-8	2-Chloroethylvinylether	17	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-Pentanone	17	U
591-78-6	2-Hexanone	17	U
127-18-4	Tetrachloroethene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	17	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
----------	Total Xylenes	3	JX

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 0811781-R2

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-7R2

Sample wt/vol: 5.6 (g/mL) G Lab File ID: 14558V7R2

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 40 Date Analyzed: 08/19/87

Column (pack/cap) PACKED Dilution Factor: 1.00

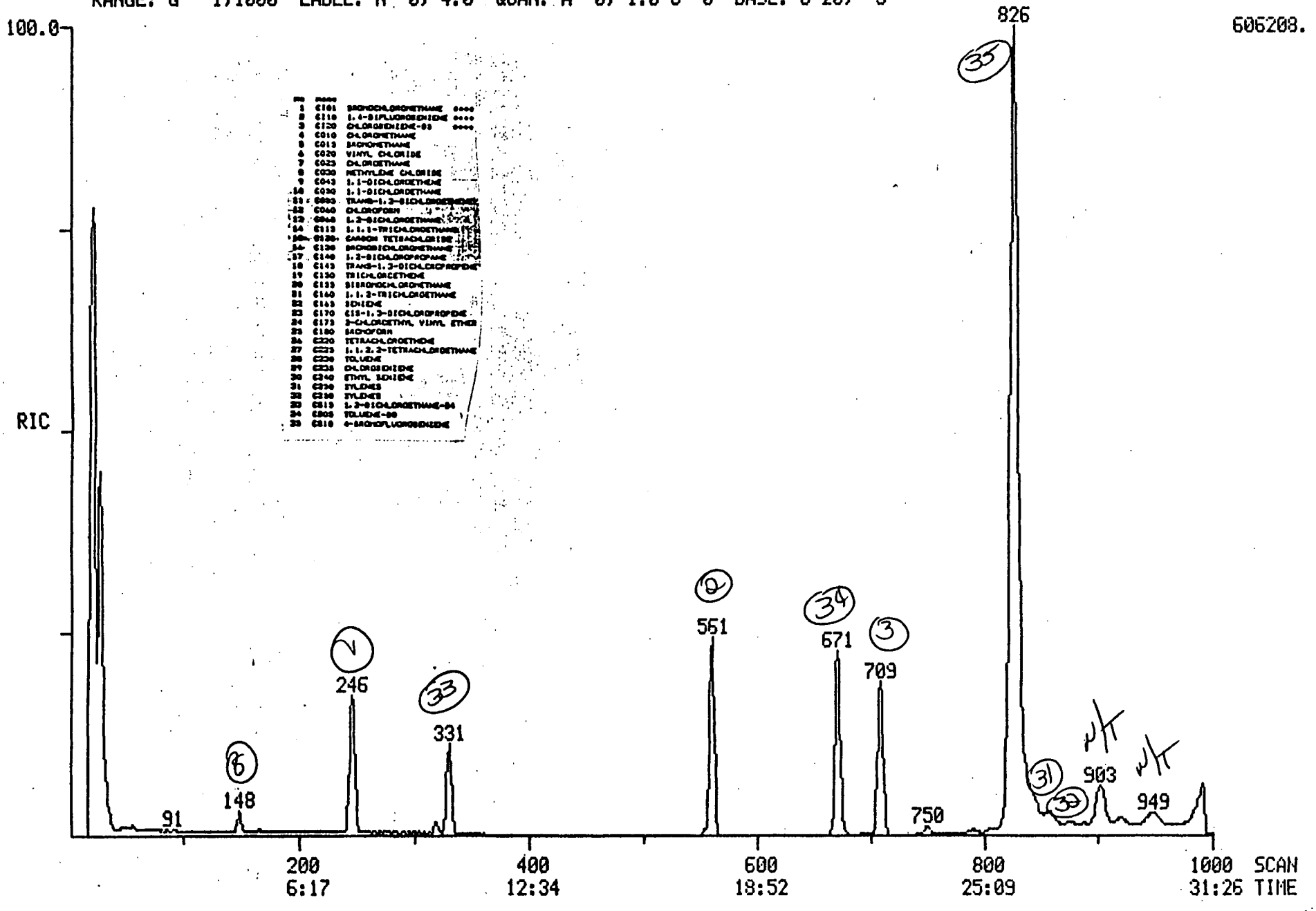
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

MIDRIC
08/19/87 13:30:00
SAMPLE: 14558-7
CONDS.: 5.6683 G
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V7R2 #1
CALI: 14558V5R2 #2

SCANS 1 TO 1000



Quantitation Report File: 14558V7R2

Data: 14558V7R2.TI
08/19/87 13:30:00
Sample: 14558-7
Conds.: 5.6683 G
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

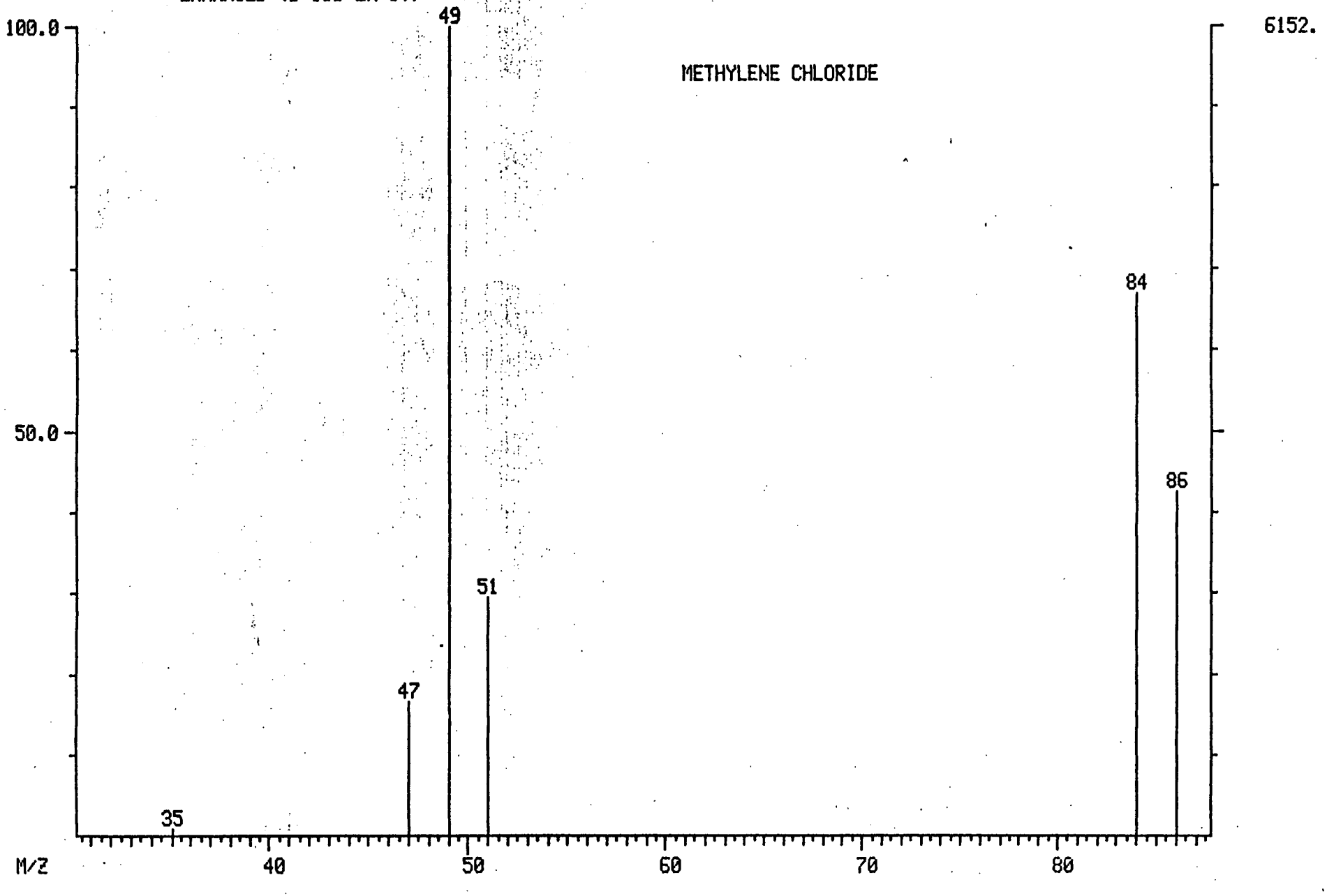
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	128	246	7:44	1	1.000	A BB	78573.	50.000 UG/L	16.50	
2	114	561	17:38	2	1.000	A BB	362508.	50.000 UG/L	16.50	
3	117	709	22:17	3	1.000	A BB	220712.	50.000 UG/L	16.50	
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	84	148	4:39	1	0.602	A BB	17849.	8.828 UG/L	2.91	4,6 DPA
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
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	NOT FOUND									
28	92	677	21:17	3	0.955	A BB	~~9124.~~	~~2.625 UG/L~~	~~0.87~~	4,6 DPA
29	NOT FOUND									
30	NOT FOUND									
31	106	858	26:58	3	1.210	A BB	3304.	1.150 UG/L	0.38	4,6 DPA
32	106	878	27:36	3	1.238	A BB	2063.	0.718 UG/L	0.24	4,6 DPA
33	65	331	10:24	1	1.346	A BB	124431.	45.014 UG/L	14.85	4,6 DPA
34	98	671	21:06	3	0.946	A BB	292433.	58.346 UG/L	19.25	4,6 DPA
35	95	825	25:56	3	1.164	A BB	155991.	36.409 UG/L	12.01	4,6 DPA

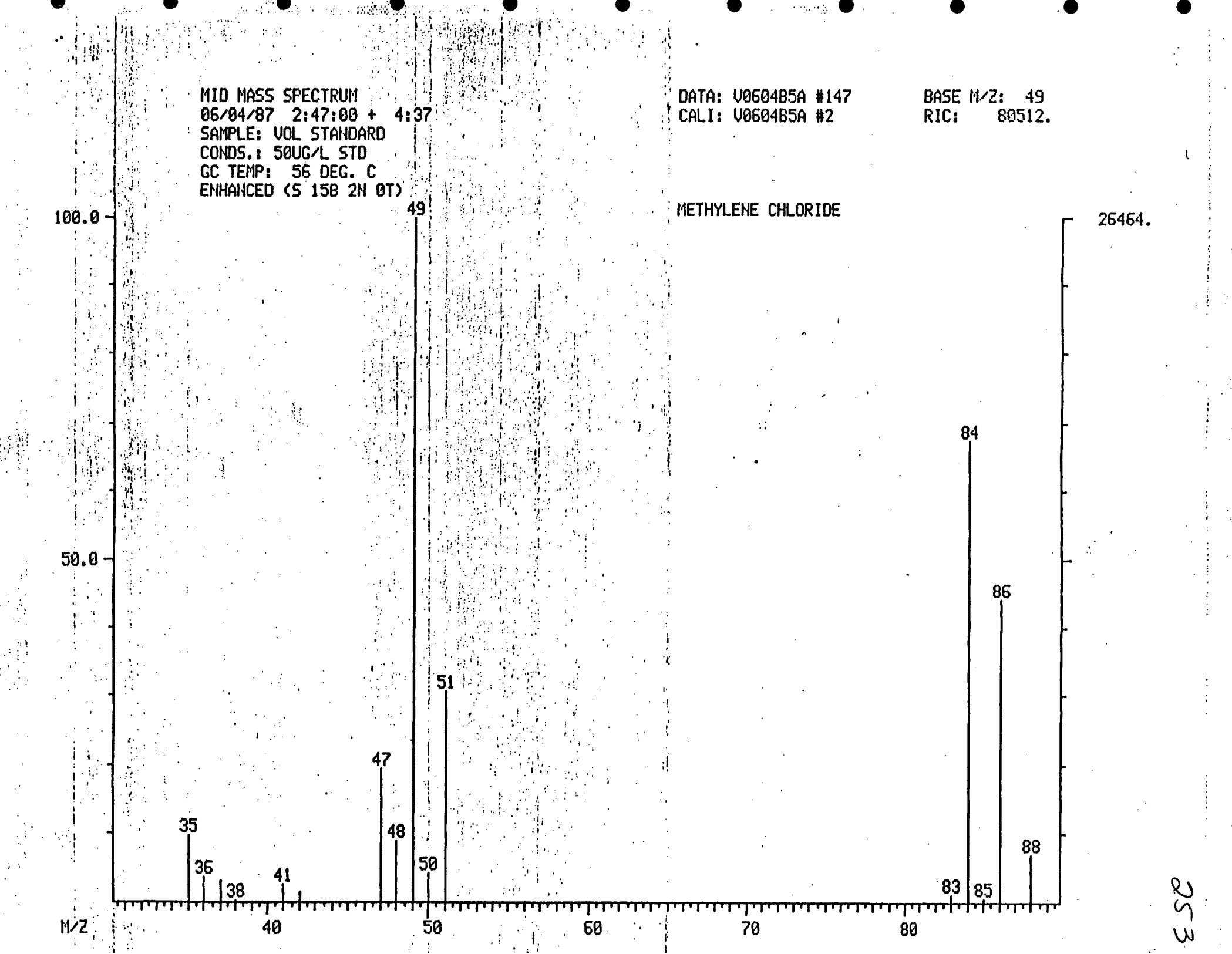
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:17	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19		0.171			50.00		0.461	
5	1:53		0.245			50.00		1.133	
6	2:20		0.302			50.00		1.084	
7	2:55		0.380			50.00		0.830	
8	4:35	1.01	0.596	1.01	8.83	50.00	0.227	1.287	0.18
9	7:12		0.935			50.00		1.284	
10	8:27		1.098			50.00		2.706	
11	9:11		1.192			50.00		1.419	
12	9:50		1.278			50.00		3.374	
13	10:30		1.363			50.00		2.167	
14	11:42		0.663			50.00		0.498	
15	12:02		0.683			50.00		0.334	
16	12:44		0.722			50.00		0.600	
17	13:56		0.790			50.00		0.361	
18	14:13		0.806			50.00		0.636	
19	14:45		0.836			50.00		0.484	
20	15:26		0.875			50.00		0.491	
21	15:30		0.879			50.00		0.374	
22	15:09		0.859			50.00		0.868	
23	15:28		0.877			50.00		0.272	
24	16:28		0.934			50.00		0.235	
25	18:01		1.021			50.00		0.411	
26	20:09		0.904			50.00		0.572	
27	20:13		0.907			50.00		0.896	
28	21:17	1.00	0.955	1.00	2.63	50.00	0.041	0.787	0.05
29	22:25		1.006			50.00		1.103	
30	24:07		1.082			50.00		0.505	
31	27:02	1.00	1.213	1.00	1.15	50.00	0.015	0.651	0.02
32	27:38	1.00	1.240	1.00	0.72	50.00	0.009	0.651	0.01
33	10:24	1.00	1.351	1.00	45.01	50.00	1.584	1.759	0.90
34	21:07	1.00	0.948	1.00	58.35	50.00	1.325	1.135	1.17
35	25:58	1.00	1.165	1.00	36.41	50.00	0.707	0.971	0.73

MID MASS SPECTRUM
08/19/87 13:30:00 + 4:39
SAMPLE: 14558-7
CONDS.: 5.6683 G
GC TEMP: 57 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V7R2 #148
CALI: 14558V7R2 #2

BASE M/Z: 49
RIC: 15792.

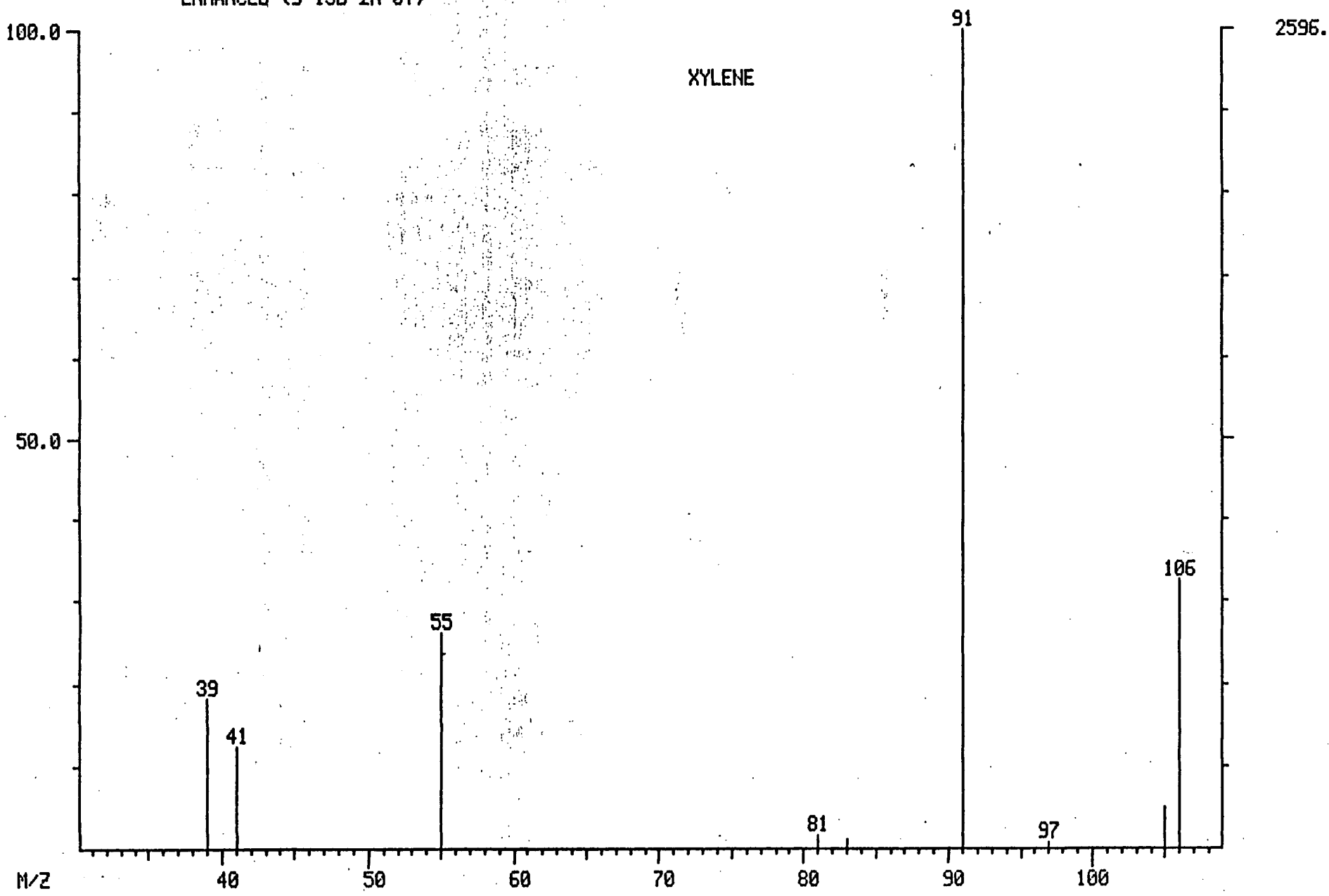



MID MASS SPECTRUM
06/04/87 2:47:00 + 4:37
SAMPLE: VOL STANDARD
CONDS.: 50UG/L STD
GC TEMP: 56 DEG. C
ENHANCED (S 15B 2N 0T)
DATA: V0604B5A #147
CALI: V0604B5A #2
BASE M/Z: 49
RIC: 80512.
METHYLENE CHLORIDE
26464.
100.0
50.0
M/Z
40
50
60
70
80
35
36
38
41
47
48
49
50
51
83
84
85
86
88

MID MASS SPECTRUM
08/19/87 13:30:00 + 26:58
SAMPLE: 14558-7
CONDS.: 5.6683 G
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V7R2 #858
CALI: 14558V7R2 #2

BASE M/Z: 91
RIC: 5144.



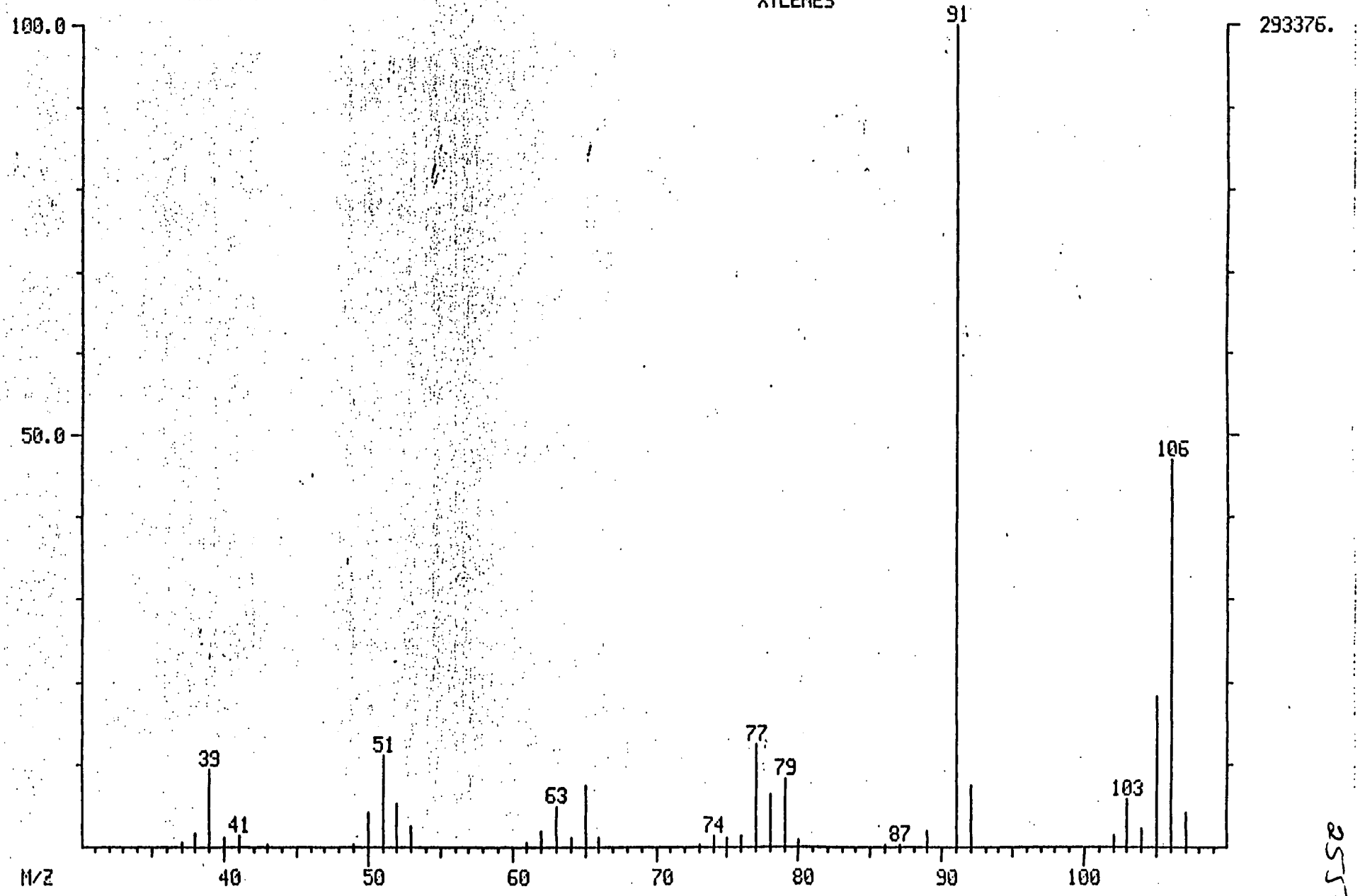
254

MID MASS SPECTRUM
02/21/87 11:08:00 + 27:26
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #874
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 808960.

XYLENES

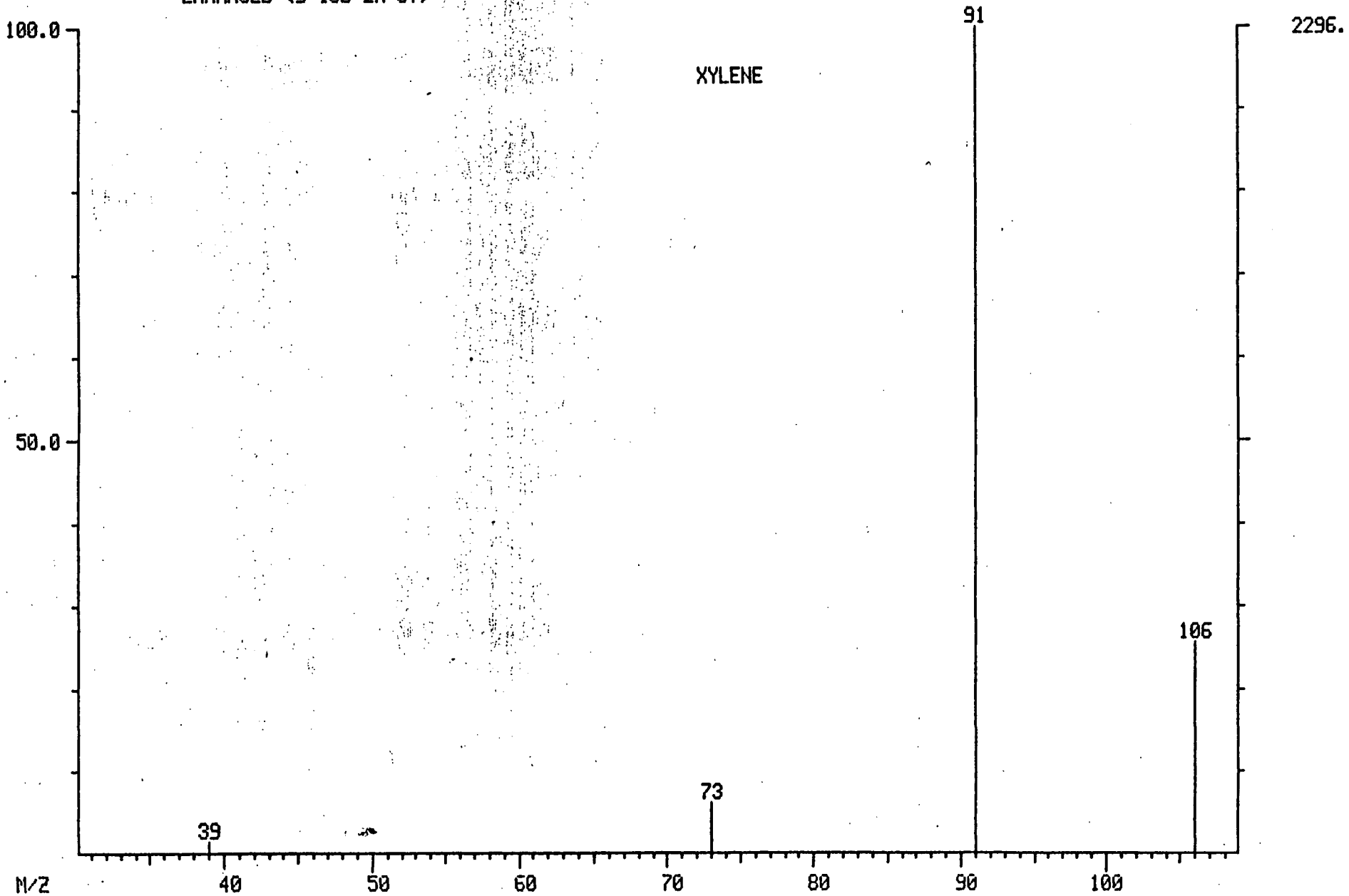


855

MID MASS SPECTRUM
08/19/87 13:30:00 + 27:36
SAMPLE: 14558-7
CONDS.: 5.6683 G
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V7R2 #878
CALI: 14558V7R2 #2

BASE M/Z: 91
RIC: 3056.



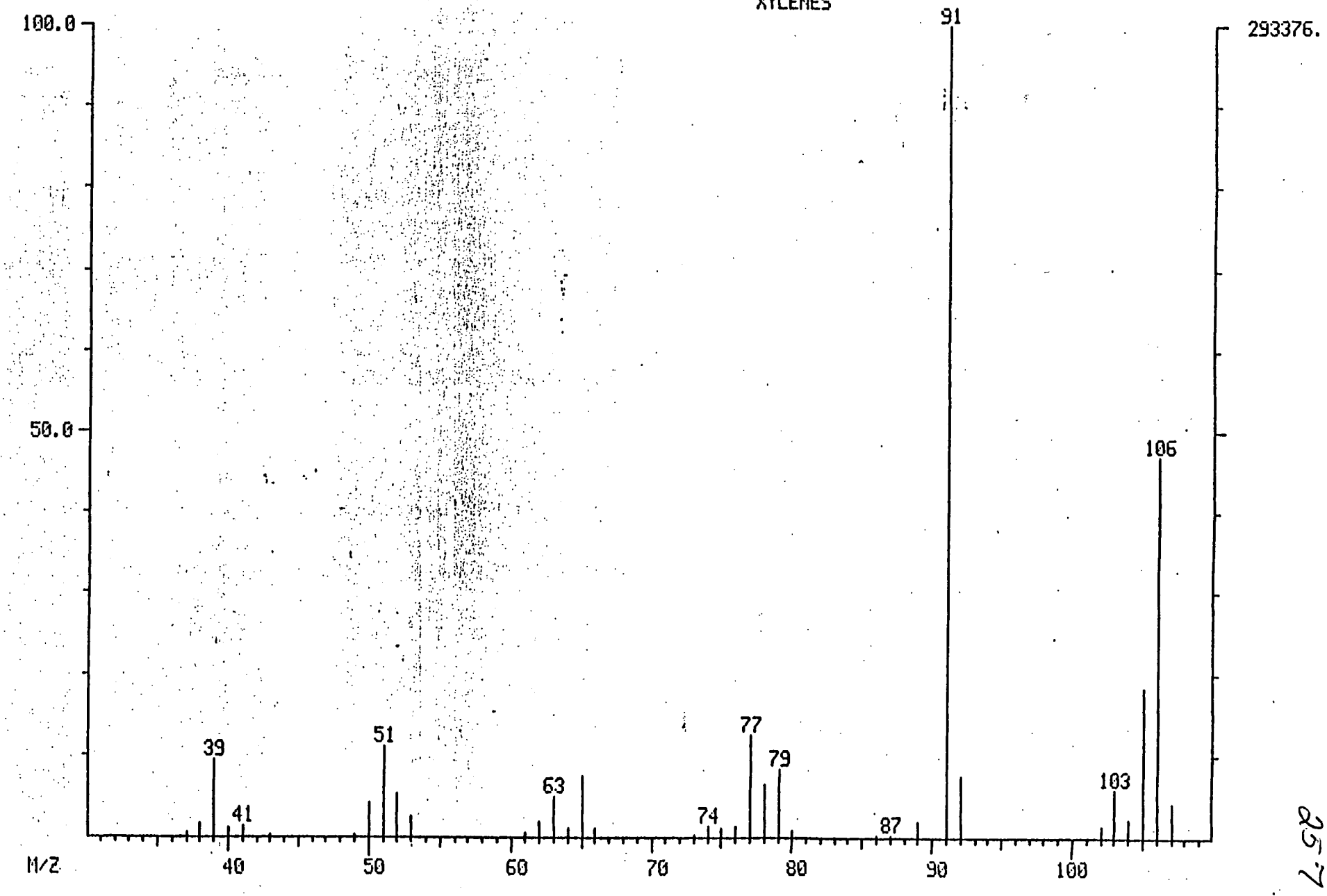
256

MID MASS SPECTRUM
02/21/87 11:08:00 + 27:26
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #874
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 808960.

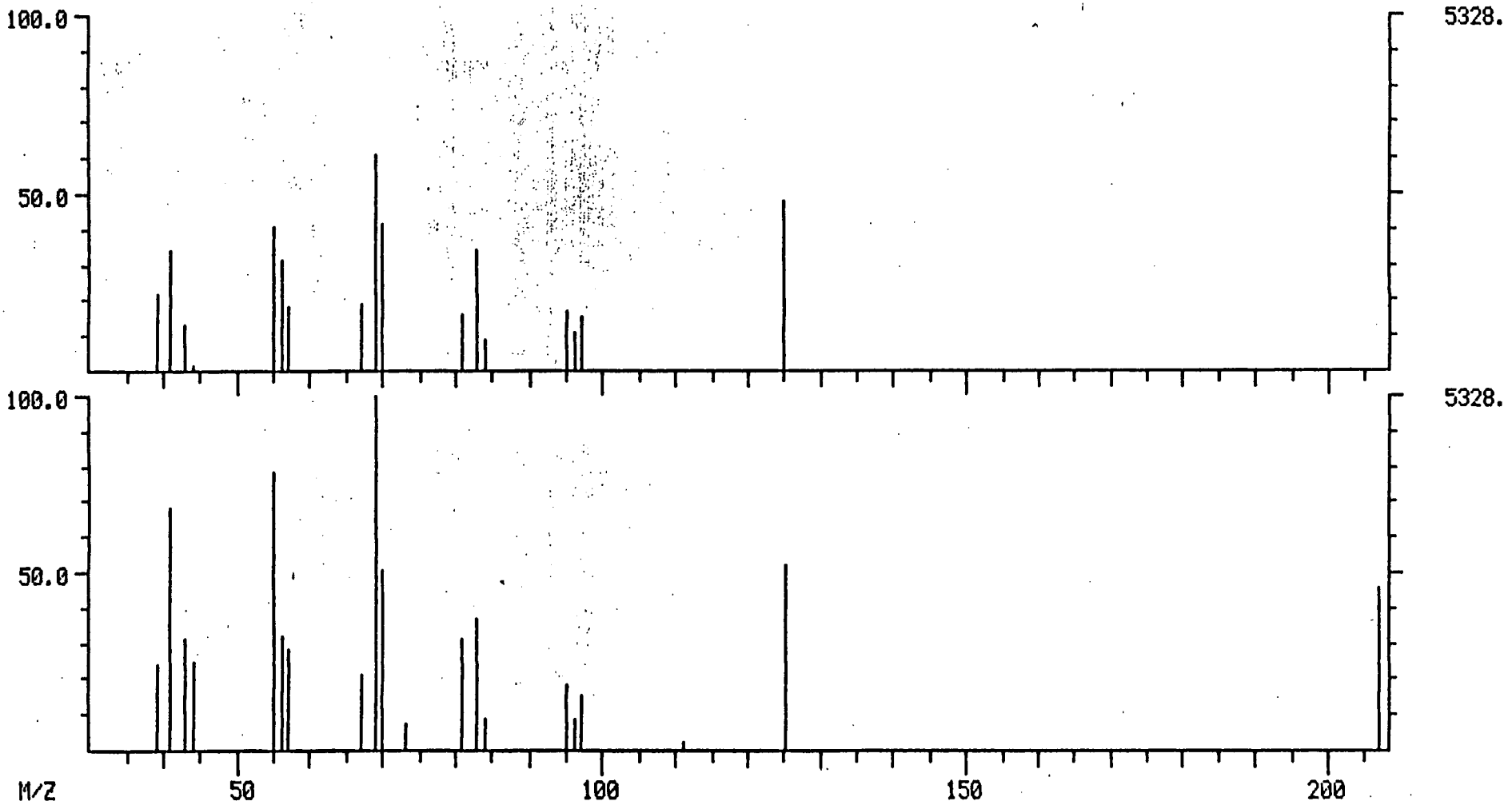
XYLENES



25-7

MID DUAL MASS SPECTRUM
08/19/87 13:30:00 + 28:23
SAMPLE: 14558-7
CONDS.: 5.6683 G
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V7R2 #903 BASE M/Z: 69/ 69
CALI: 14558V7R2 #2 RIC: 22847./ 36479.

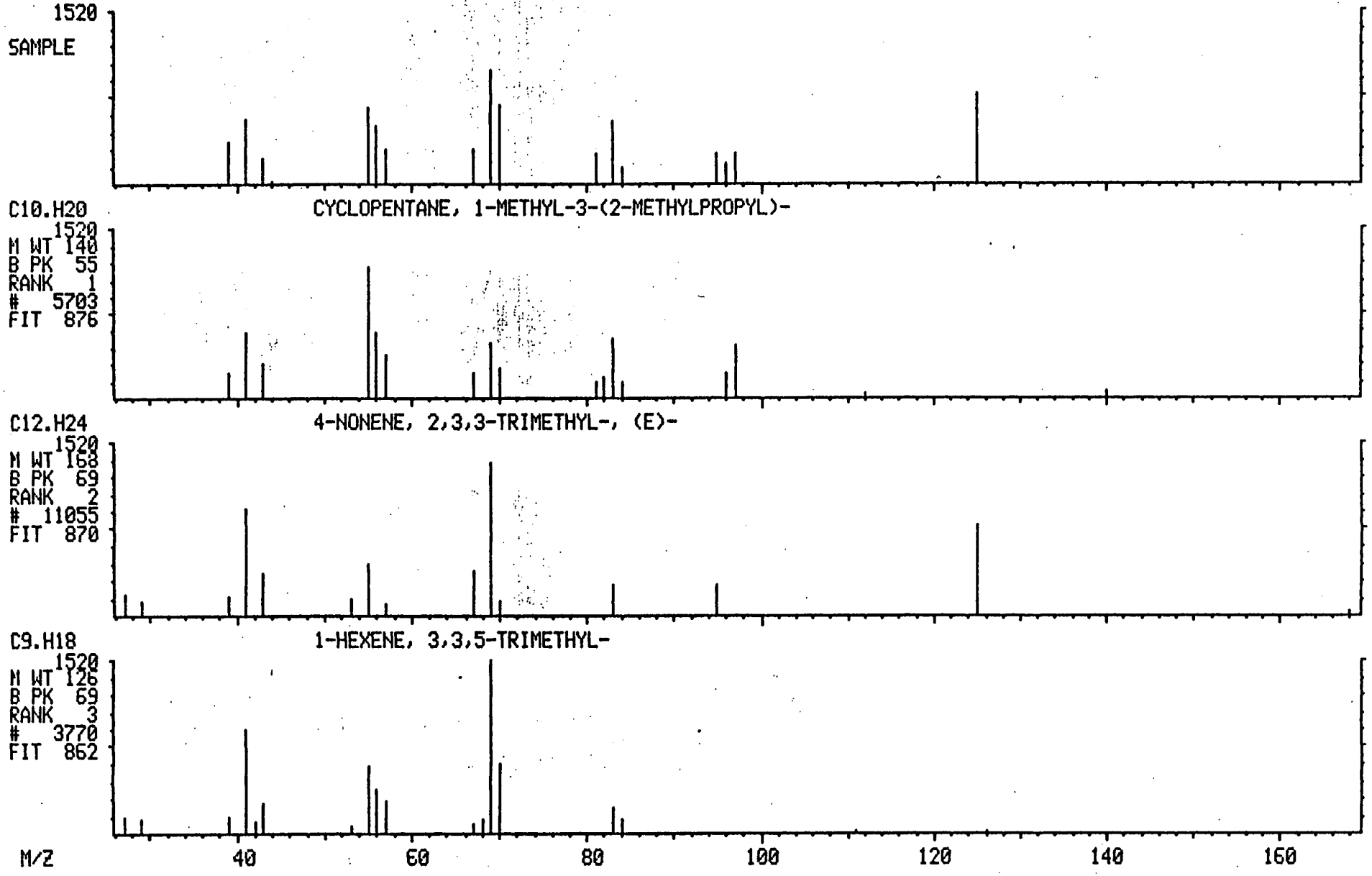


258

MID LIBRARY SEARCH
08/19/87 13:30:00 + 28:23
SAMPLE: 14558-7
CONDS.: 5.6683 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V7R2 # 903
CALI: 14558V7R2 # 2

BASE M/Z: 69
RIC: 22847.



MID Library Search
08/19/87 13:30:00 + 28:23
Sample: 14558-7
Conds.: 5.6683 G
Enhanced (S 15B 2N OT)

Data: 14558V7R2 # 903
Cali: 14558V7R2 # 2

Base m/z: 69
RIC: 22847.

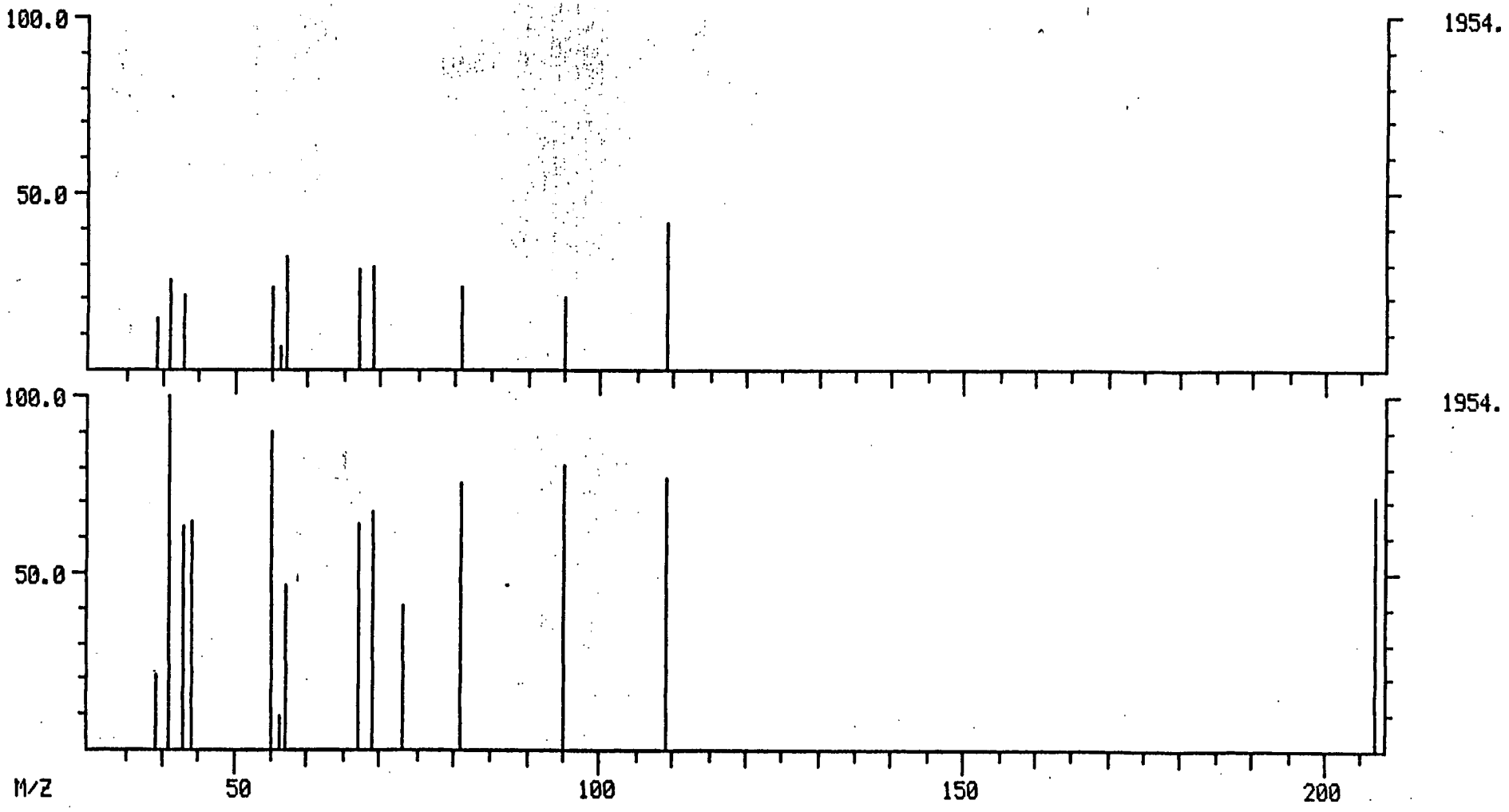
Rank	In.	Name
1	5703	CYCLOPENTANE, 1-METHYL-3-(2-METHYLPROPYL)-
2	11055	4-NONENE, 2,3,3-TRIMETHYL-, (E)-
3	3770	1-HEXENE, 3,3,5-TRIMETHYL-
4	8301	CYCLOPENTANONE, 2-METHYL-4-(2-METHYLPROPYL)-
5	11056	4-NONENE, 2,3,3-TRIMETHYL-, (Z)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H20	140	55	662	876	710
2	C12.H24	168	69	692	870	737
3	C9.H18	126	69	545	862	595
4	C10.H18.O	154	55	646	854	707
5	C12.H24	168	69	767	852	830

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	——	——	——	——	29053-04-1
2	——	——	——	——	63830-67-1
3	——	——	——	——	13427-43-5
4	——	——	——	——	69770-96-3
5	——	——	——	——	63830-68-2

MID DUAL MASS SPECTRUM
08/19/87 13:30:00 + 29:50
SAMPLE: 14558-7
CONDS.: 5.6683 G
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

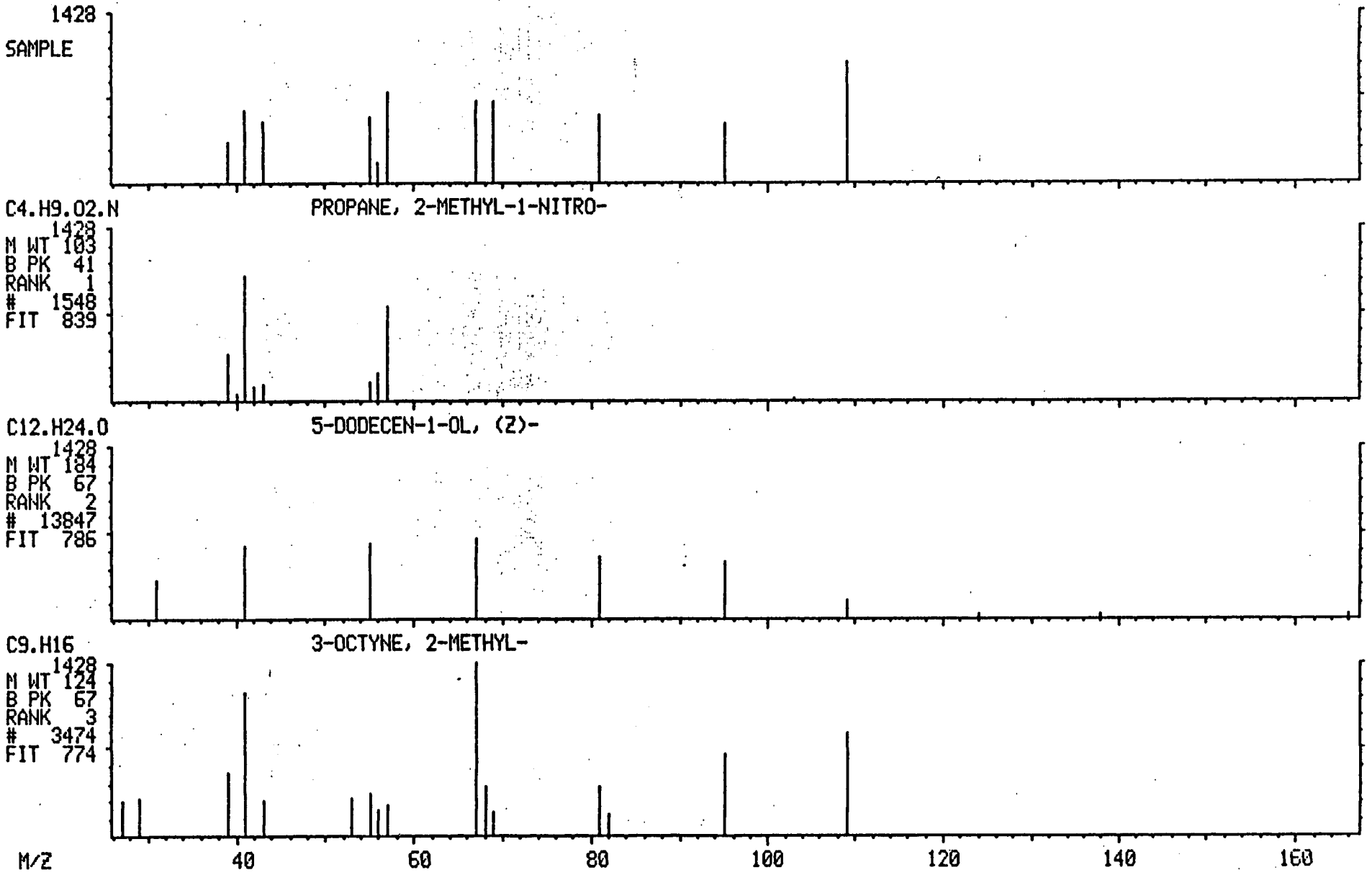
DATA: 14558V7R2 #949 BASE M/Z: 109/ 41
CALI: 14558V7R2 #2 RIC: 5151./ 16991.



MID LIBRARY SEARCH
08/19/87 13:30:00 + 29:50
SAMPLE: 14558-7
CONDS.: 5.6683 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V7R2 # 949
CALI: 14558V7R2 # 2

BASE M/Z: 109
RIC: 5151.



MID Library Search
08/19/87 13:30:00 + 29:50
Sample: 14558-7
Conds.: 5.6683 G
Enhanced (S 15B 2N 0T)

Data: 14558V7R2 # 949
Cali: 14558V7R2 # 2

Base m/z: 109
RIC: 5151.

Rank	In.	Name
1	1548	PROPANE, 2-METHYL-1-NITRO-
2	13847	5-DODECEN-1-OL, (Z)-
3	3474	3-OCTYNE, 2-METHYL-
4	4106	HEXANAL, 5,5-DIMETHYL-
5	3424	3,7-OCTADIEN-2-ONE, (E)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C4.H9.O2.N	103	41	276	839	294
2	C12.H24.O	184	67	541	786	606
3	C9.H16	124	67	774	774	911
4	C8.H16.O	128	57	459	745	531
5	C8.H12.O	124	109	548	742	657

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	625-74-1
2	—	—	—	—	40642-38-4
3	—	—	—	—	55402-15-8
4	—	—	—	—	55320-58-6
5	—	—	—	—	25172-06-9

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0811751-R3

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-783

Sample wt/vol: 5.5 (g/mL) G Lab File ID: 14558V783

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 40 Date Analyzed: 08/19/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	17	U
74-83-9	Bromomethane	17	U
75-01-4	Vinyl Chloride	17	U
75-00-3	Chloroethane	17	U
75-09-2	Methylene Chloride	9	X
67-64-1	Acetone	17	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	17	U
71-55-6	1,1,1-Trichloroethane	8	U
56-23-5	Carbon Tetrachloride	8	U
108-05-4	Vinyl Acetate	17	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
110-75-8	2-Chloroethylvinylether	17	U
75-25-2	Bromoform	8	U
108-10-1	4-Methyl-2-Pentanone	17	U
591-78-6	2-Hexanone	17	U
127-18-4	Tetrachloroethene	8	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U
108-88-3	Toluene	4	J
108-90-7	Chlorobenzene	8	U
100-41-4	Ethylbenzene	8	U
100-42-5	Styrene	8	U
----------	Total Xylenes	8	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0611751-R3

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-7R3

Sample wt/vol: 5.5 (g/ml.) G Lab File ID: 14558V7R3

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 40 Date Analyzed: 08/19/87

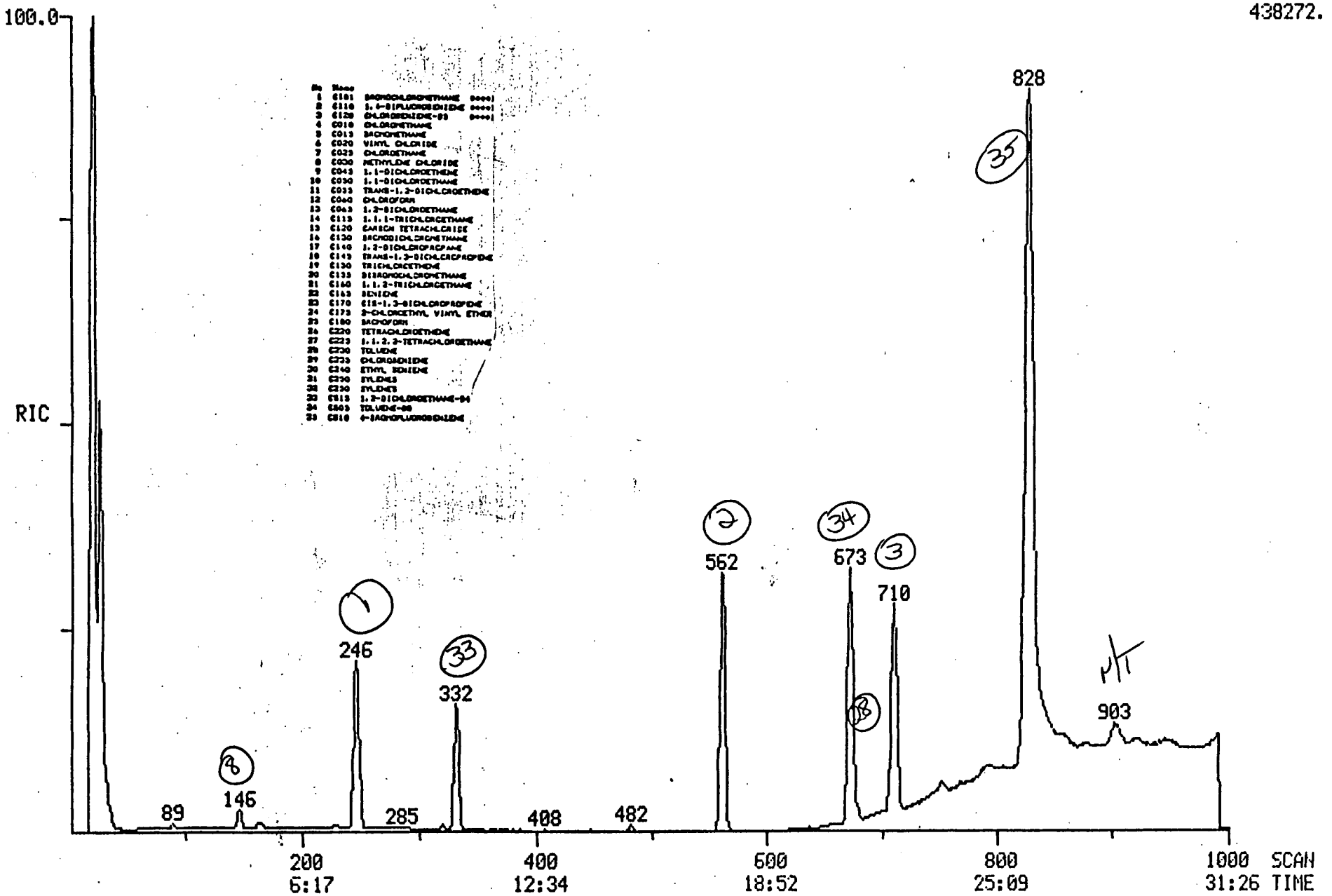
Column (pack/cap) PACKED Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

MIDRIC
08/19/87 17:10:00
SAMPLE: 14558-7
CONDS.: 5.5179 G
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V7R3 #1 SCANS 1 TO 1000
CALI: TEST #2



266

Quantitation Report File: 14558V7R3

Data: 14558V7R3.TI
08/19/87 17:10:00
Sample: 14558-7
Conds.: 5.5179 G
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	128	246	7:44	1	1.000	A BB	67392.	50.000	UG/L	16.42	
2	114	562	17:40	2	1.000	A BB	349477.	50.000	UG/L	16.42	
3	117	710	22:19	3	1.000	A BB	214233.	50.000	UG/L	16.42	
4	NOT FOUND										
5	NOT FOUND										
6	NOT FOUND										
7	NOT FOUND										
8	84	146	4:35	1	0.593	A BB	10256.	5.914	UG/L	1.94	yp PA
9	NOT FOUND										
10	NOT FOUND										
11	NOT FOUND										
12	NOT FOUND										
13	NOT FOUND										
14	NOT FOUND										
15	NOT FOUND										
16	NOT FOUND										
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	NOT FOUND										
28	92	678	21:19	3	0.955	A BB	8443.	2.503	UG/L	0.82	yp PA
29	NOT FOUND										
30	NOT FOUND										
31	NOT FOUND										
32	NOT FOUND										
33	65	332	10:26	1	1.350	A BB	123461.	52.073	UG/L	17.10	yp PA
34	98	673	21:09	3	0.948	A BB	294731.	60.583	UG/L	19.90	yp PA
35	95	826	25:58	3	1.163	A BB	138843.	33.386	UG/L	10.97	yp PA

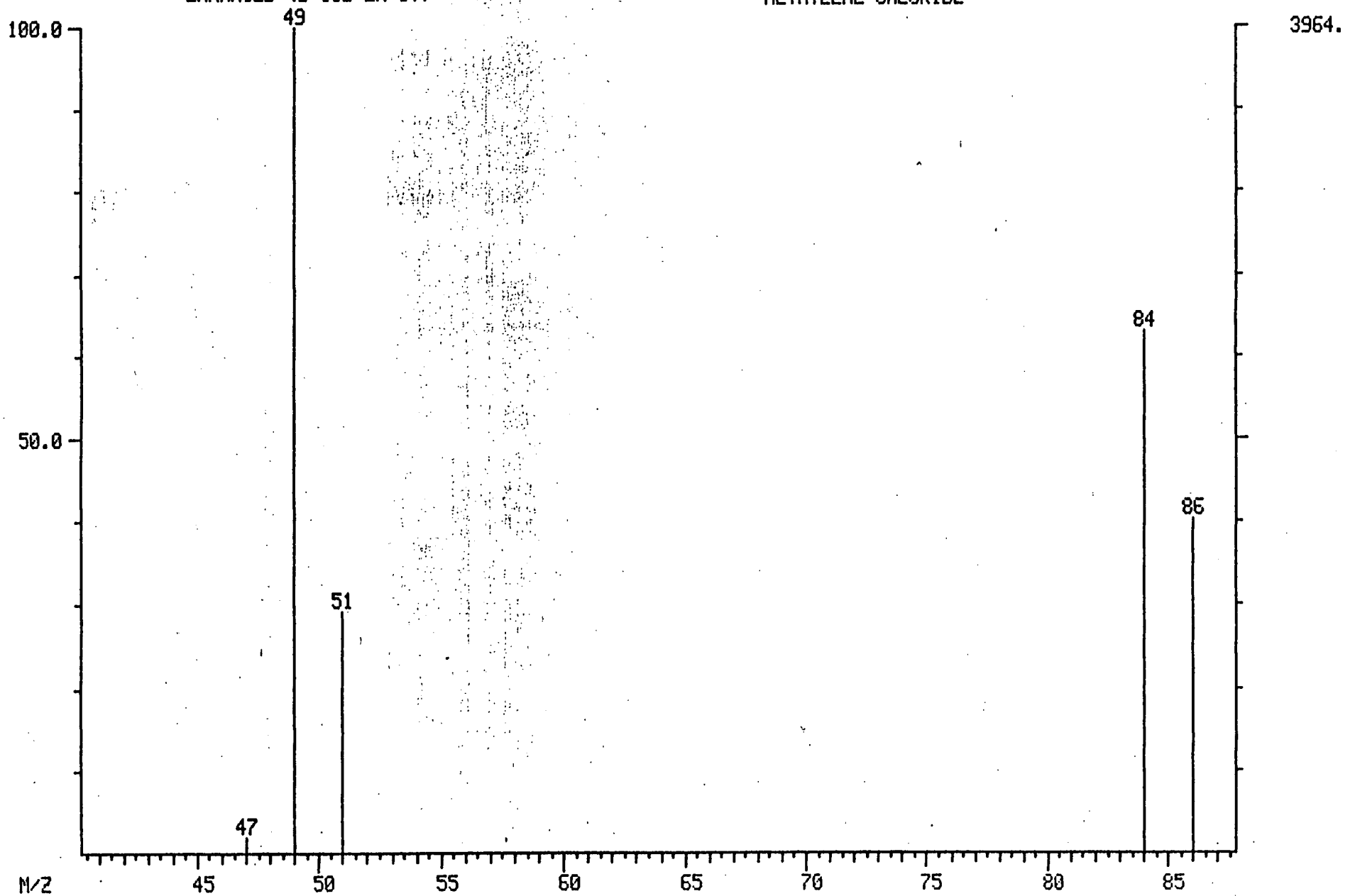
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:17	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19		0.171			50.00		0.461	
5	1:53		0.245			50.00		1.133	
6	2:20		0.302			50.00		1.084	
7	2:55		0.380			50.00		0.830	
8	4:35	1.00	0.596	1.00	5.91	50.00	0.152	1.287	0.12
9	7:12		0.935			50.00		1.284	
10	8:27		1.098			50.00		2.706	
11	9:11		1.192			50.00		1.419	
12	9:50		1.278			50.00		3.374	
13	10:30		1.363			50.00		2.167	
14	11:42		0.663			50.00		0.498	
15	12:02		0.683			50.00		0.334	
16	12:44		0.722			50.00		0.600	
17	13:56		0.790			50.00		0.361	
18	14:13		0.806			50.00		0.636	
19	14:45		0.836			50.00		0.484	
20	15:26		0.875			50.00		0.491	
21	15:30		0.879			50.00		0.374	
22	15:09		0.859			50.00		0.868	
23	15:28		0.877			50.00		0.272	
24	16:28		0.934			50.00		0.235	
25	18:01		1.021			50.00		0.411	
26	20:09		0.904			50.00		0.572	
27	20:13		0.907			50.00		0.896	
28	21:17	1.00	0.955	1.00	2.50	50.00	0.039	0.787	0.05
29	22:25		1.006			50.00		1.103	
30	24:07		1.082			50.00		0.505	
31	27:02		1.213			50.00		0.651	
32	27:38		1.240			50.00		0.651	
33	10:24	1.00	1.351	1.00	52.07	50.00	1.832	1.759	1.04
34	21:07	1.00	0.948	1.00	60.58	50.00	1.376	1.135	1.21
35	25:58	1.00	1.165	1.00	33.39	50.00	0.648	0.971	0.67

MID MASS SPECTRUM
08/19/87 17:10:00 + 4:35
SAMPLE: 14558-7
CONDS.: 5.5179 G
GC TEMP: 56 DEG. C
ENHANCED (S 15B 2N 0T)

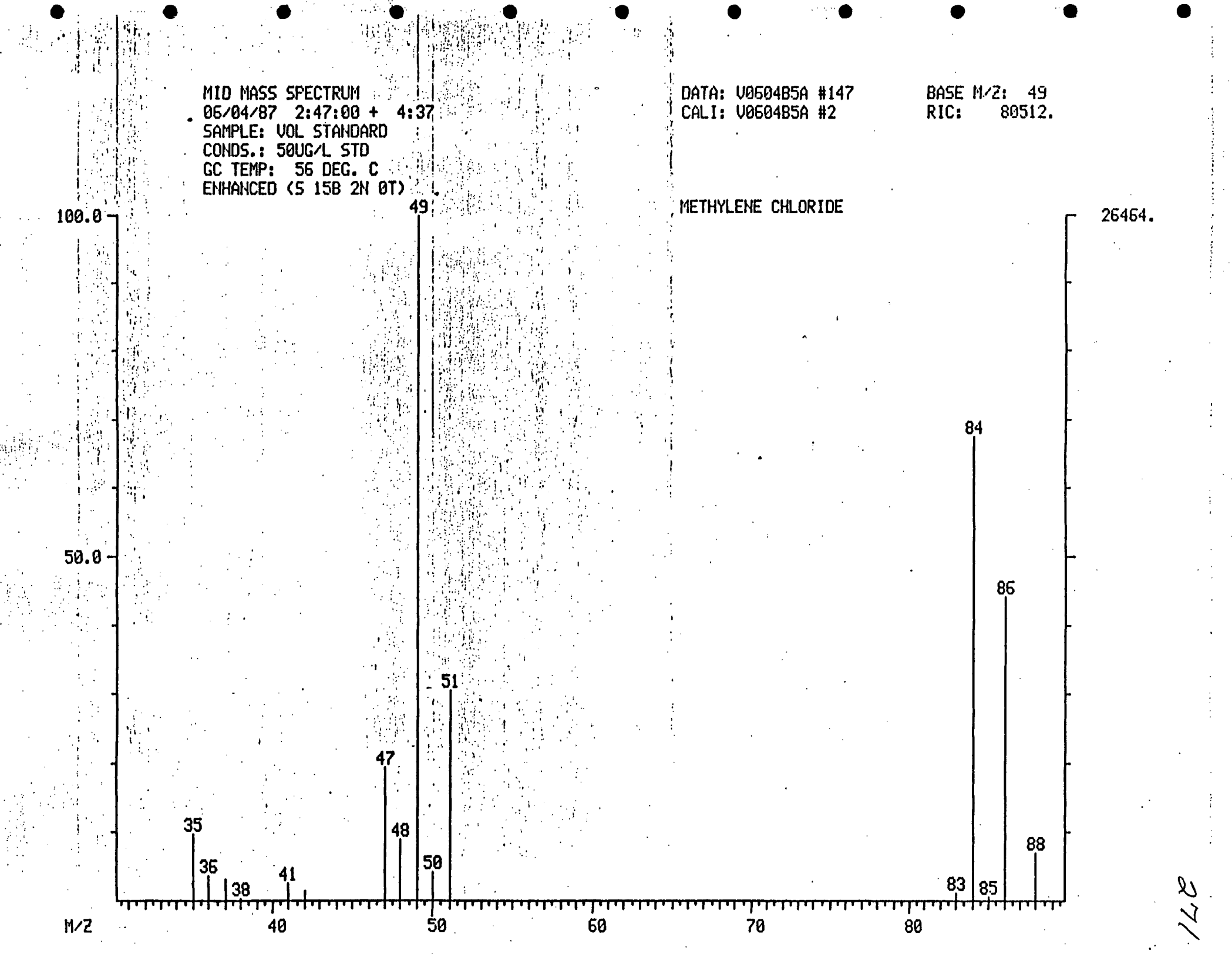
DATA: 14558V7R3 #146
CALI: 14558V7R3 #2

BASE M/Z: 49
RIC: 9312.

METHYLENE CHLORIDE



270


MID MASS SPECTRUM
06/04/87 2:47:00 + 4:37
SAMPLE: VOL STANDARD
CONDS.: 50UG/L STD
GC TEMP: 56 DEG. C
ENHANCED (5 15B 2N 0T)
DATA: V0604B5A #147
CALI: V0604B5A #2
BASE M/Z: 49
RIC: 80512.
METHYLENE CHLORIDE
26464.
100.0
50.0
49
84
86
51
47
35
48
36
50
38
41
83
85
88
M/Z
40
50
60
70
80

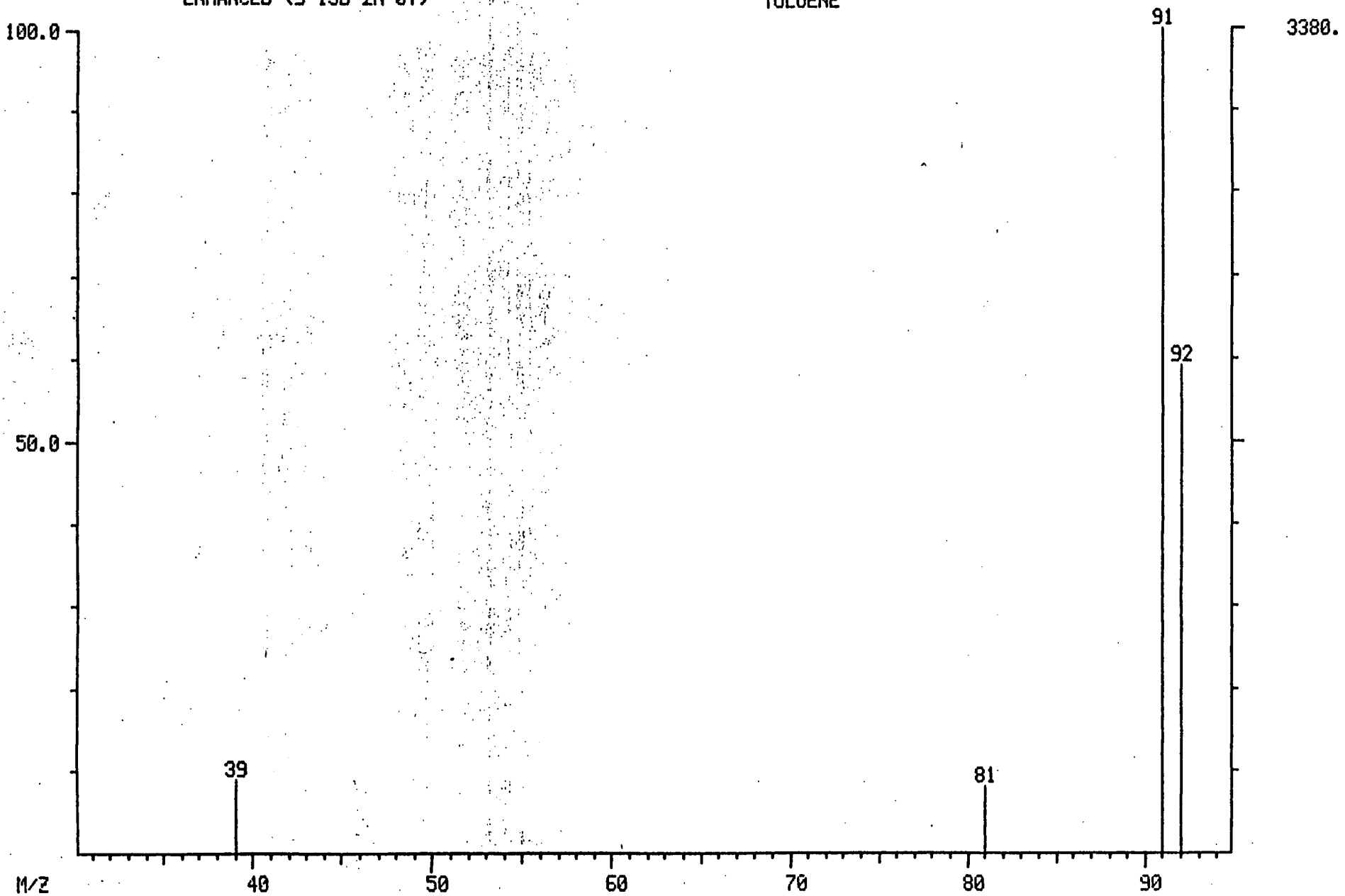
271

MID MASS SPECTRUM
08/19/87 17:10:00 + 21:19
SAMPLE: 14558-7
CONDS.: 5.5179 G
GC TEMP: 190 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V7R3 #678
CALI: 14558V7R3 #2

BASE M/Z: 91
RIC: 5952.

TOLUENE



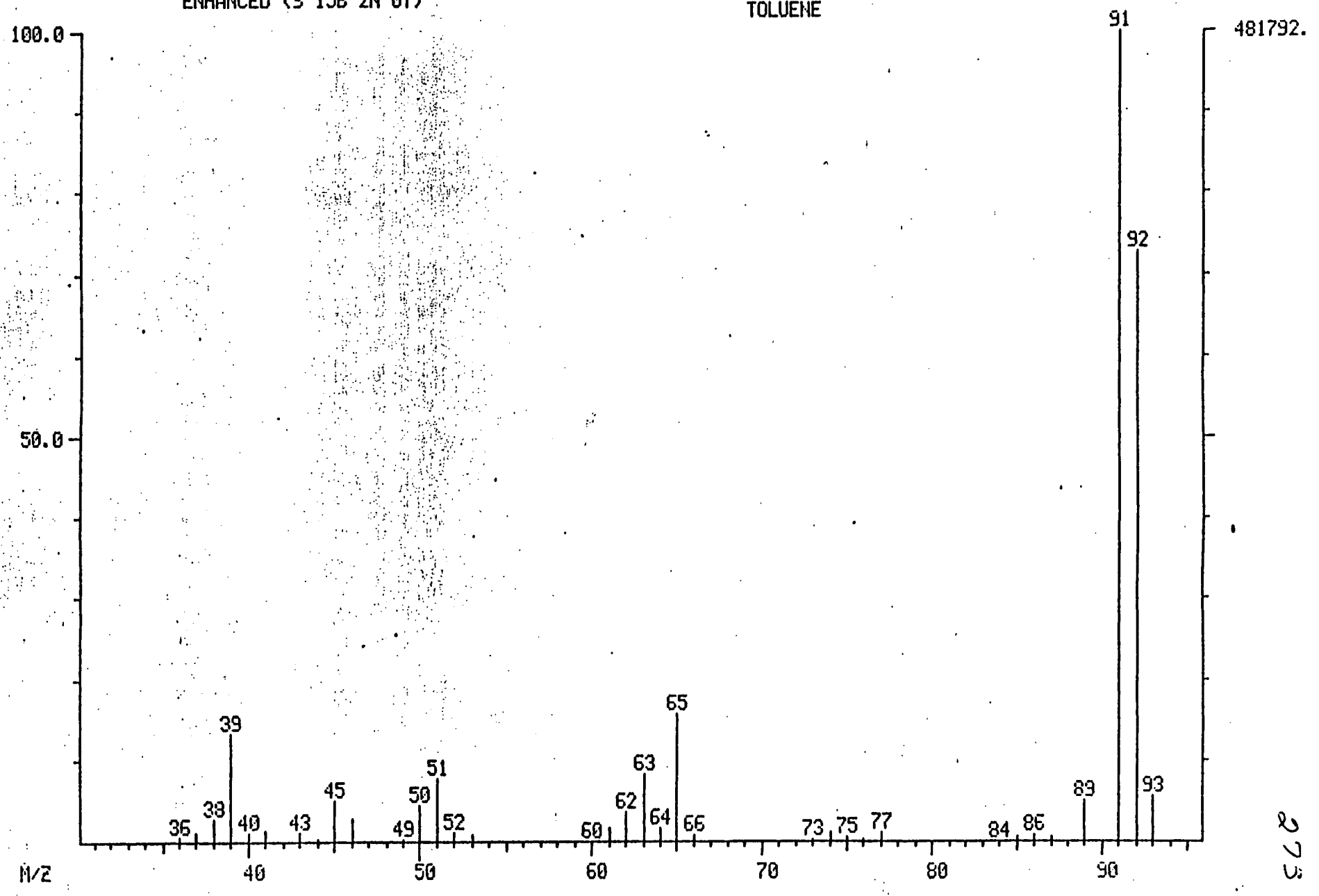
872

MID MASS SPECTRUM
02/21/87 11:08:00 + 21:13
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 183 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #676
CALI: VB0221A30 #2

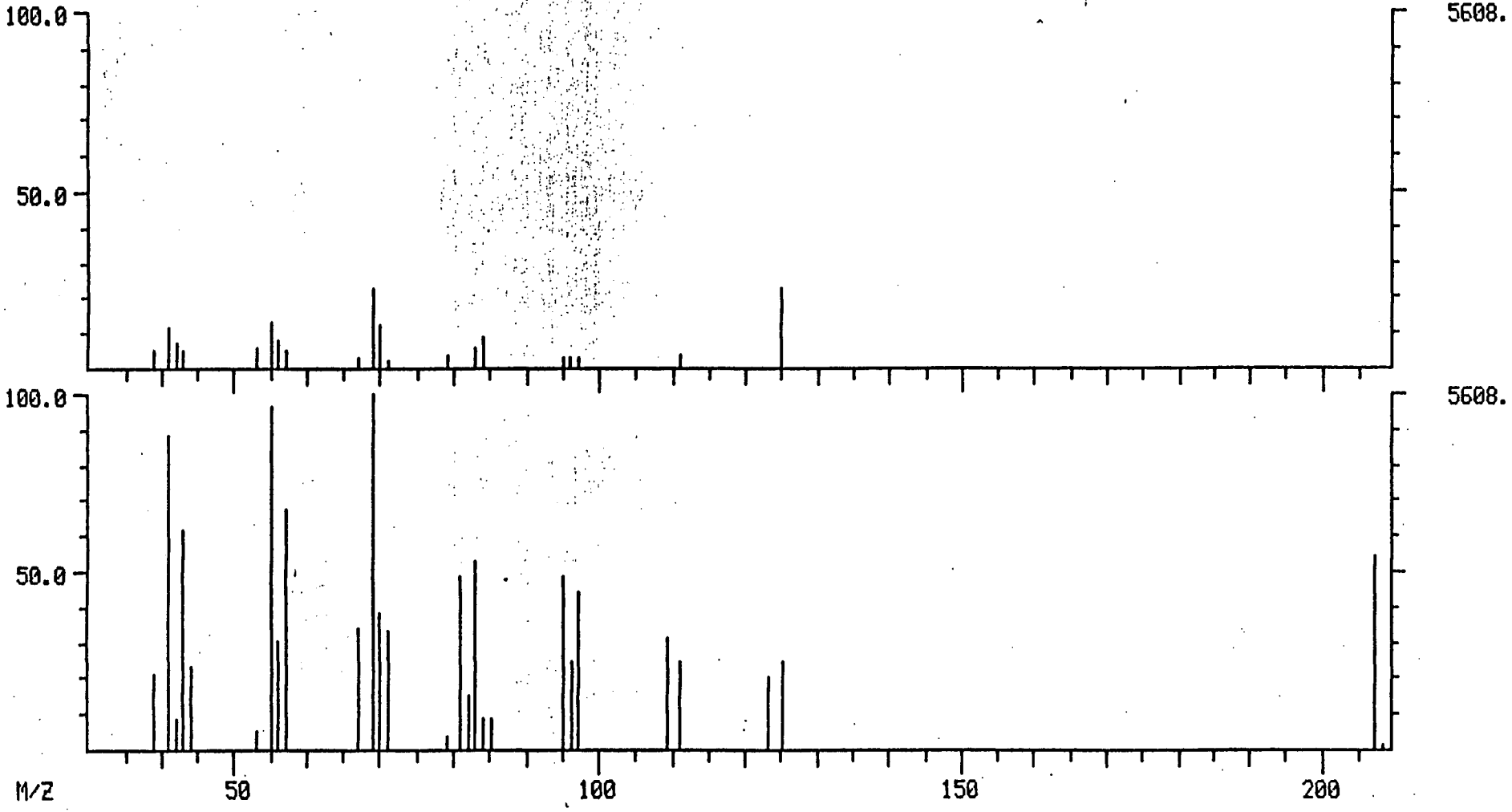
BASE M/Z: 91
RIC: 1275900.

TOLUENE



MID DUAL MASS SPECTRUM
08/19/87 17:10:00 + 28:23
SAMPLE: 14558-7
CONDS.: 5.5179 G
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V7R3 #903 BASE M/Z: 125/ 69
CALI: 14558V7R3 #2 RIC: 8607./ 57343.

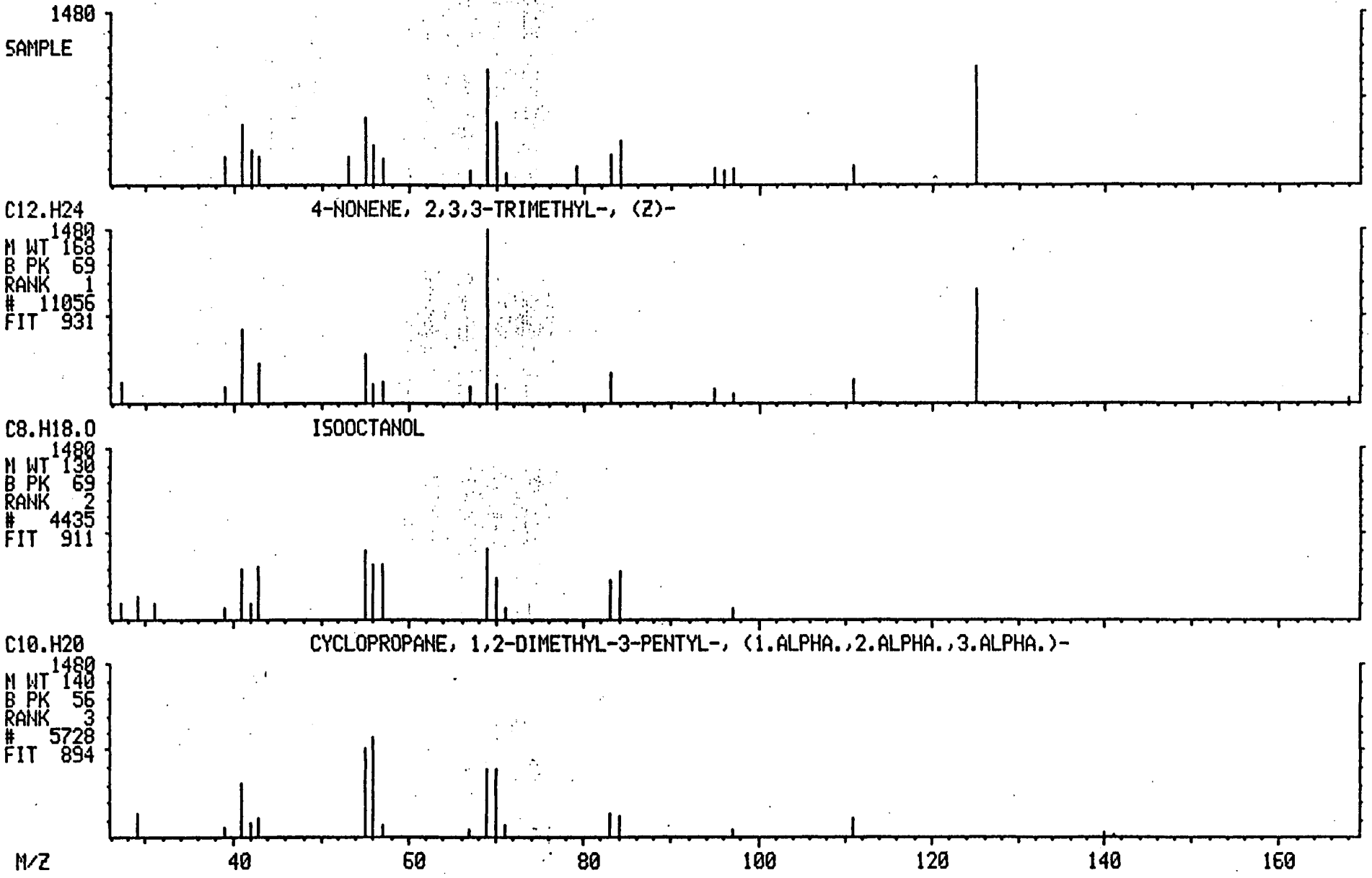


374

MID LIBRARY SEARCH
08/19/87 17:10:00 + 28:23
SAMPLE: 14558-7
CONDS.: 5.5179 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V7R3 # 903
CALI: 14558V7R3 # 2

BASE M/Z: 125
RIC: 8607.



Ø75

MID Library Search
08/19/87 17:10:00 + 28:23
Sample: 14558-7
Conds.: 5.5179 G
Enhanced (S 15B 2N OT)

Data: 14558V7R3 # 903
Cali: 14558V7R3 # 2

Base m/z: 125
RIC: 8607.

Rank	In.	Name
1	11056	4-NONENE, 2,3,3-TRIMETHYL-, (Z)-
2	4435	ISOOCTANOL
3	5728	CYCLOPROPANE, 1,2-DIMETHYL-3-PENTYL-, (1.ALPHA.,2.ALPHA.,3.ALPHA.)-
4	5723	CYCLOPROPANE, 1,2-DIMETHYL-3-PENTYL-
5	8352	CYCLOPENTANE, 1-BUTYL-2-ETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H24	168	69	767	931	789
2	C8.H18.O	130	69	543	911	569
3	C10.H20	140	56	580	894	607
4	C10.H20	140	56	575	886	607
5	C11.H22	154	69	546	886	590

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	63830-68-2
2	—	—	—	—	26952-21-6
3	—	—	—	—	62238-10-2
4	—	—	—	—	62238-05-5
5	—	—	—	—	72993-32-9

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0811752

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-8

Sample wt/vol: (g/mL) G Lab File ID: 14558V8

Level: (low/med) MED Date Received: 08/11/87

% Moisture: not dec. Date Analyzed: 08/19/87

Column: (pack/cap) PACKED Dilution Factor: 0.735

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	450	U
74-83-9	Bromomethane	450	U
75-01-4	Vinyl Chloride	450	U
75-00-3	Chloroethane	450	U
75-09-2	Methylene Chloride	290	JX
67-64-1	Acetone	450	U
75-15-0	Carbon Disulfide	450	U
75-35-4	1,1-Dichloroethene	450	U
75-34-3	1,1-Dichloroethane	450	U
540-59-0	1,2-Dichloroethene (total)	450	U
67-66-3	Chloroform	450	U
107-06-2	1,2-Dichloroethane	450	U
78-93-3	2-Butanone	450	U
71-55-6	1,1,1-Trichloroethane	450	U
56-23-5	Carbon Tetrachloride	450	U
108-05-4	Vinyl Acetate	450	U
75-27-4	Bromodichloromethane	450	U
78-87-5	1,2-Dichloropropane	450	U
10061-01-5	cis-1,3-Dichloropropene	450	U
79-01-6	Trichloroethene	450	U
124-48-1	Dibromochloromethane	450	U
79-00-5	1,1,2-Trichloroethane	450	U
71-43-2	Benzene	450	U
10061-02-6	Trans-1,3-Dichloropropene	450	U
110-75-8	2-Chloroethylvinylether	450	U
75-25-2	Bromoform	450	U
108-10-1	4-Methyl-2-Pentanone	450	U
591-78-6	2-Hexanone	450	U
127-18-4	Tetrachloroethene	450	U
79-34-5	1,1,2,2-Tetrachloroethane	450	U
108-88-3	Toluene	450	U
108-90-7	Chlorobenzene	450	U
100-41-4	Ethylbenzene	450	U
100-42-5	Styrene	450	U
----------	Total Xylenes	450	U

278

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 0811752

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-8

Sample wt/vol: _____ (g/mL) G Lab File ID: 14558V8

Level: (low/med) MED Date Received: 08/11/87

% Moisture: not dec. _____ Date Analyzed: 08/19/87

Column (pack/cap) PACKED Dilution Factor: 0.735

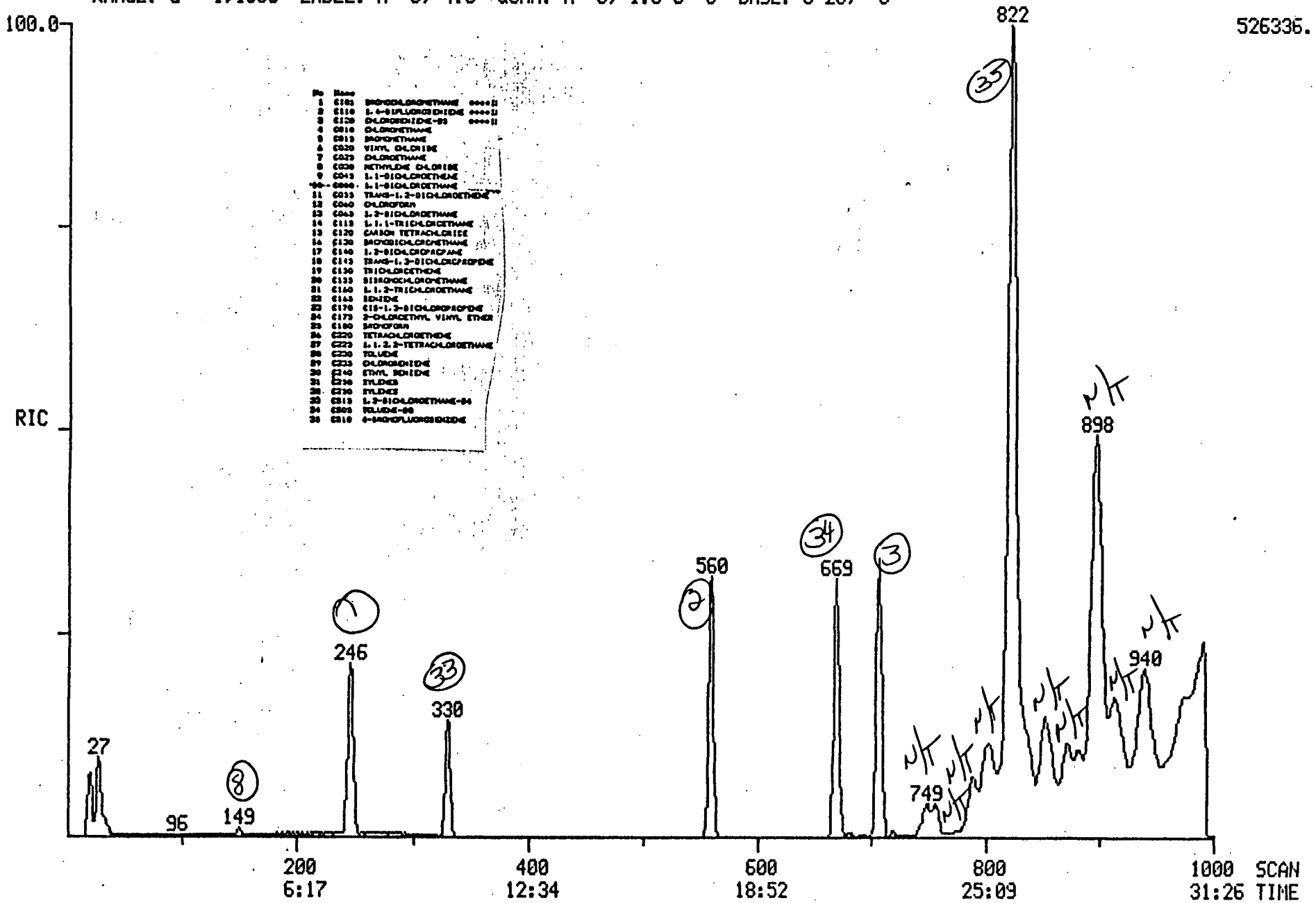
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

MIDRIC
08/19/87 3:16:00
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V8 #1
CALI: 14558V9 #2

SCANS 1 TO 1000



879

Quantitation Report File: 14558V8

Data: 14558V8.TI
08/19/87 3:16:00
Sample: 14558-8
Conds.: 5.1833 GMS/10.0 MLS, 100 UL PURGED
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	128	246	7:44	1	1.000	A BB	80651.	50.000 UG/L	16.57	
2	114	559	17:34	2	1.000	A BB	417706.	50.000 UG/L	16.57	
3	117	707	22:13	3	1.000	A BB	321402.	50.000 UG/L	16.57	
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	84	149	4:41	1	0.606	A BB	4240.	2.262 UG/L	0.75	Yes PA
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
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	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	65	330	10:22	1	1.341	A BB	141001.	48.300 UG/L	16.00	Yes PA
34	98	669	21:02	3	0.946	A BB	364302.	49.930 UG/L	16.54	Yes PA
35	95	820	25:47	3	1.160	A BB	323949.	51.348 UG/L	17.01	Yes PA

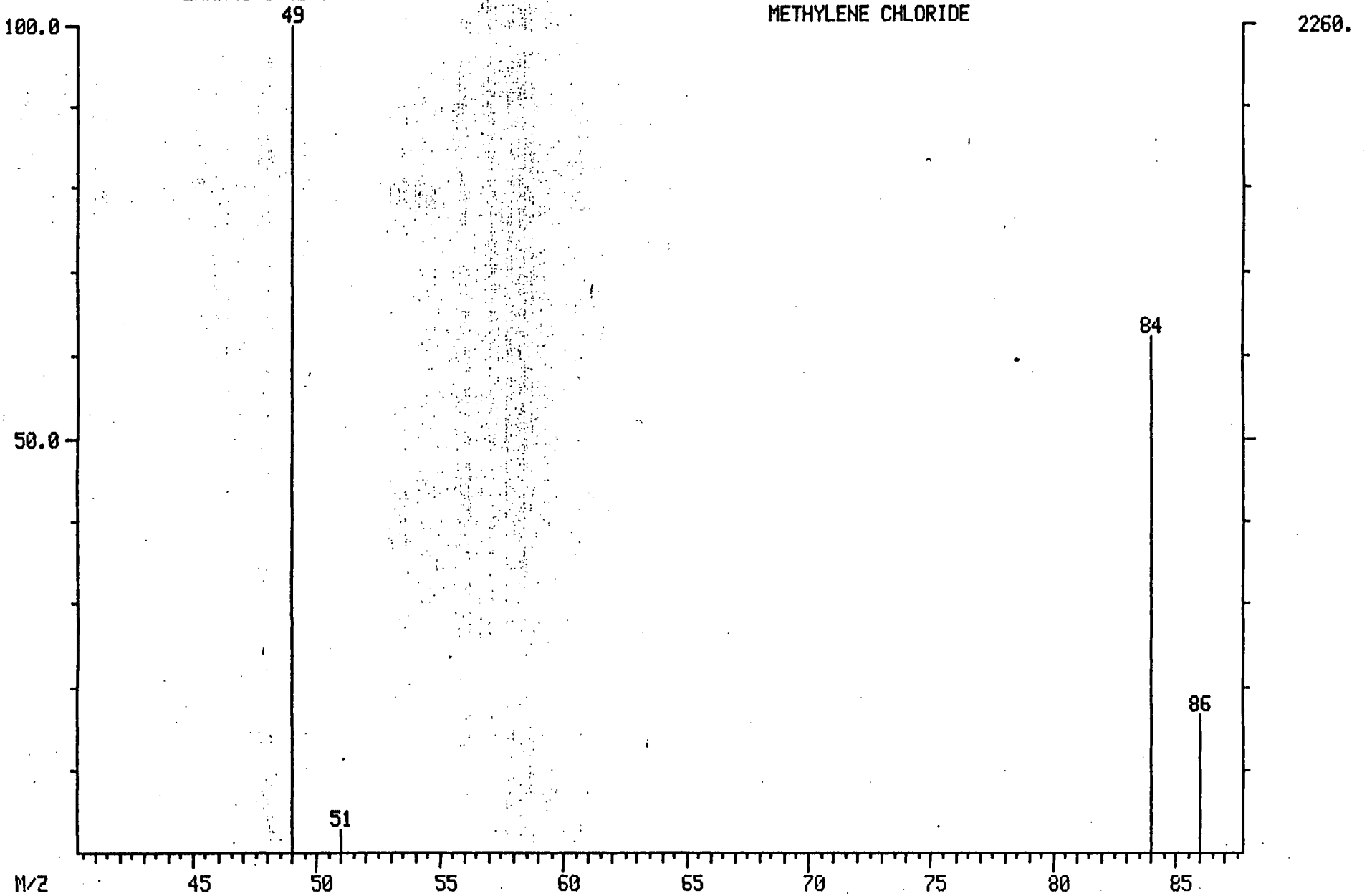
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:38	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:15	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:15		0.165			50.00		0.691	
5	1:49		0.239			50.00		1.543	
6	2:18		0.300			50.00		1.178	
7	2:50		0.370			50.00		0.765	
8	4:30	1.04	0.588	1.03	2.26	50.00	0.053	1.162	0.05
9	7:08		0.934			50.00		1.192	
10	8:24		1.099			50.00		2.570	
11	9:09		1.198			50.00		1.487	
12	9:48		1.284			50.00		3.171	
13	10:28		1.370			50.00		2.058	
14	11:40		0.661			50.00		0.454	
15	12:00		0.681			50.00		0.306	
16	12:42		0.720			50.00		0.548	
17	13:54		0.788			50.00		0.333	
18	14:13		0.806			50.00		0.575	
19	14:45		0.836			50.00		0.431	
20	15:24		0.873			50.00		0.435	
21	15:28		0.877			50.00		0.329	
22	15:07		0.857			50.00		0.797	
23	15:26		0.875			50.00		0.238	
24	16:26		0.932			50.00		0.165	
25	17:59		1.020			50.00		0.326	
26	20:09		0.905			50.00		0.523	
27	20:11		0.907			50.00		0.681	
28	21:15		0.955			50.00		0.716	
29	22:23		1.006			50.00		1.006	
30	24:03		1.081			50.00		0.444	
31	27:30		1.236			50.00		0.571	
32	27:40		1.238			50.00		0.574	
33	10:22	1.00	1.358	0.99	48.30	50.00	1.748	1.810	0.97
34	21:06	1.00	0.948	1.00	49.93	50.00	1.133	1.135	1.00
35	25:52	1.00	1.162	1.00	51.35	50.00	1.008	0.981	1.03

MID MASS SPECTRUM
08/19/87 3:16:00 + 4:41
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 ML5,100 UL PURGED
GC TEMP: 57 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 #149
CALI: 14558V8 #2

BASE M/Z: 49
RIC: 4104.

METHYLENE CHLORIDE

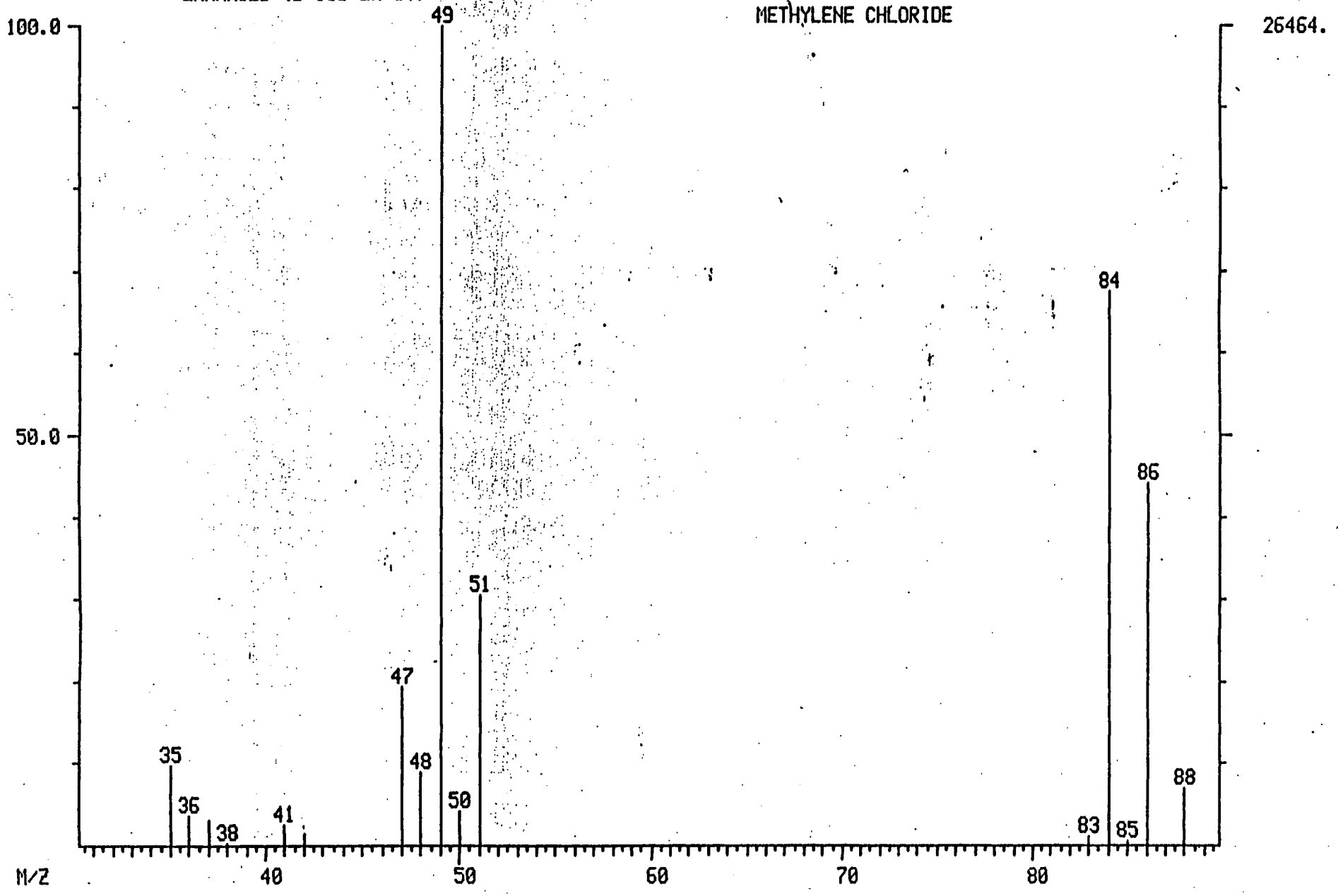


MID MASS SPECTRUM
06/04/87 2:47:00 + 4:37
SAMPLE: VOL STANDARD
CONDS.: 50UG/L STD
GC TEMP: 56 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: V0604B5A #147
CALI: V0604B5A #2

BASE M/Z: 49
RIC: 80512.

METHYLENE CHLORIDE

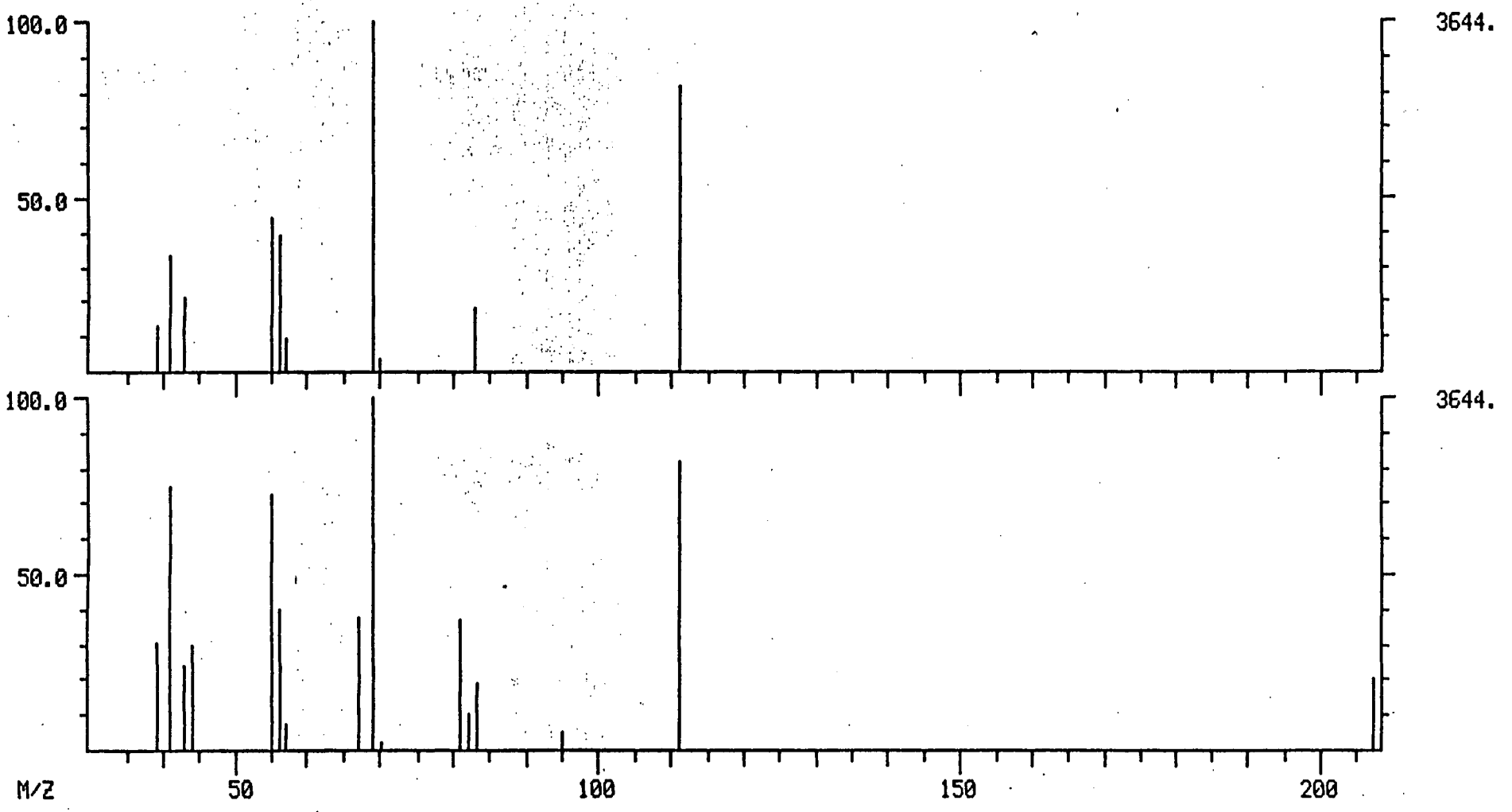


287

MID DUAL MASS SPECTRUM
08/19/87 3:16:00 + 23:33
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
GC TEMP: 208 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 #749
CALI: 14558V8 #2

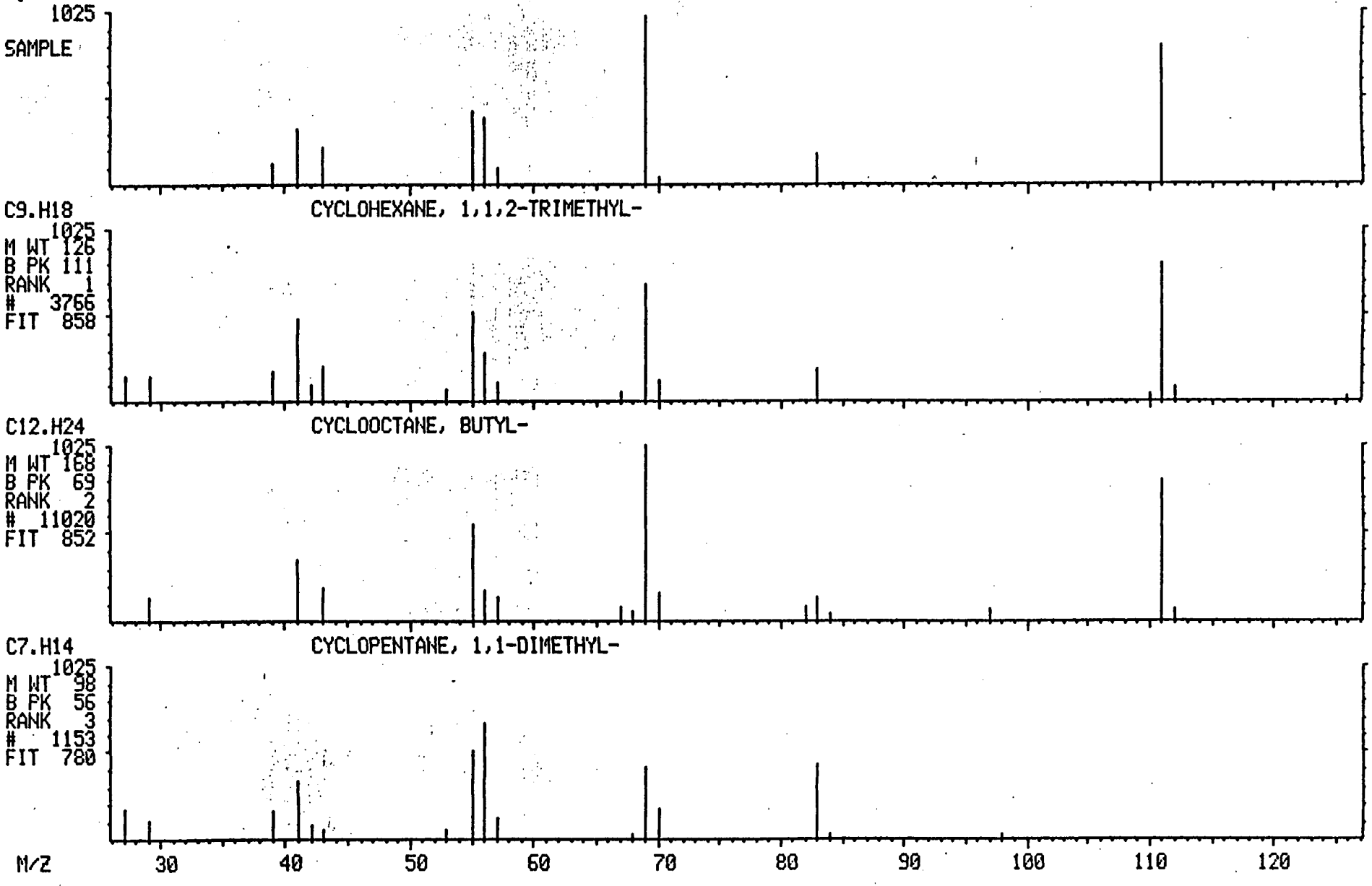
BASE M/Z: 69/ 69
RIC: 13247./ 21407.



MID LIBRARY SEARCH
08/19/87 3:16:00 + 23:33
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 # 749
CALI: 14558V8 # 2

BASE M/Z: 69
RIC: 13247.



MID Library Search Data: 14558V8 # 749 Base m/z: 69
08/19/87 3:16:00 + 23:33 Cali: 14558V8 # 2 RIC: 13247.
Sample: 14558-8
Conds.: 5.1833 GMS/10.0 MLS, 100 UL PURGED
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	3766	CYCLOHEXANE, 1,1,2-TRIMETHYL-
2	11020	CYCLOOCTANE, BUTYL-
3	1153	CYCLOPENTANE, 1,1-DIMETHYL-
4	5712	CYCLOPENTANE, (2-METHYLBUTYL)-
5	2779	1-HEXANOL, 5-METHYL-

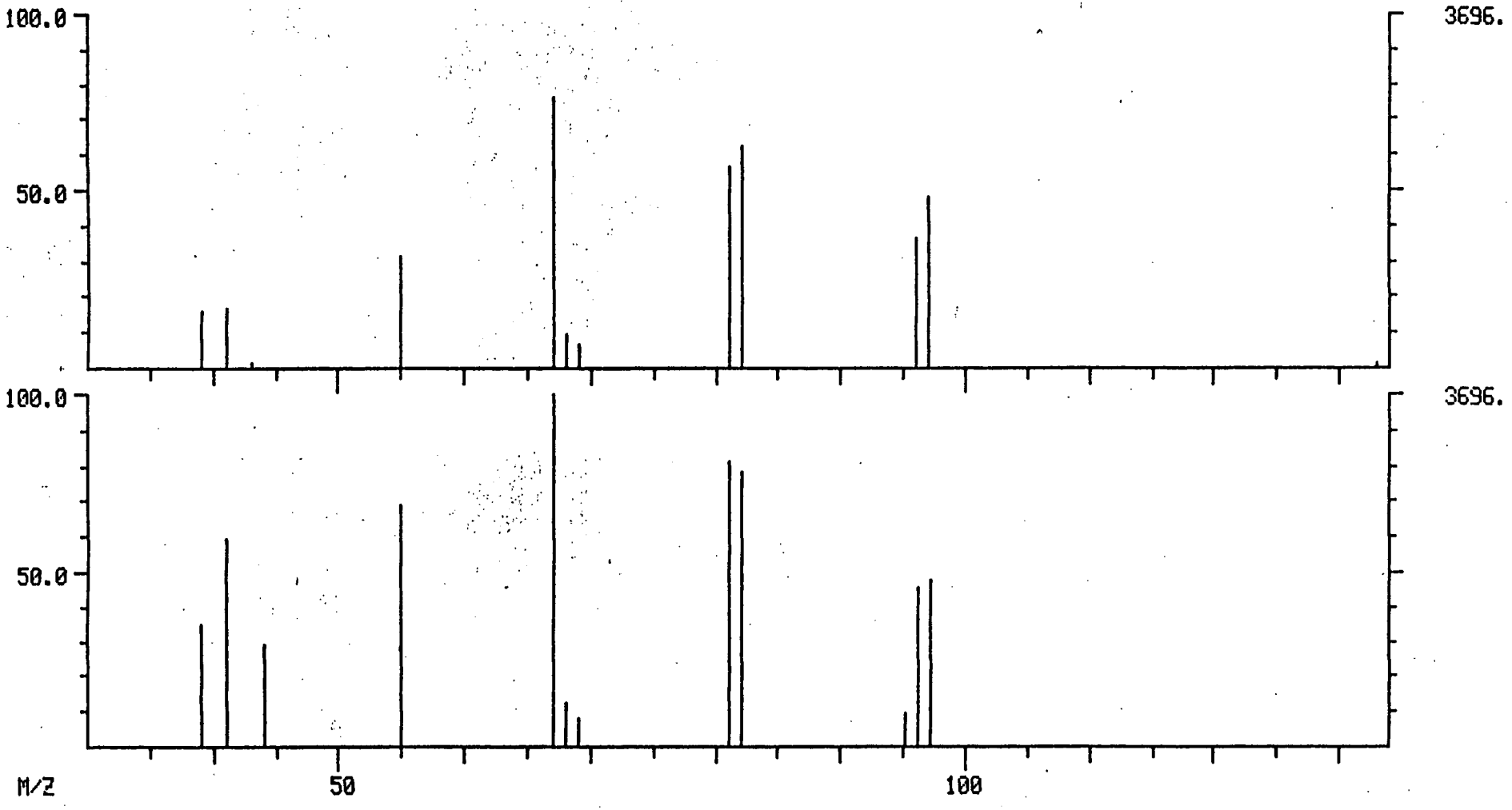
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	111	858	858	979
2	C12.H24	168	69	835	852	956
3	C7.H14	98	56	505	780	567
4	C10.H20	140	111	757	757	948
5	C7.H16.O	116	70	456	704	522

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	7094-26-0
2	—	—	—	—	16538-93-5
3	—	—	—	—	1638-26-2
4	—	—	—	—	53366-38-4
5	—	—	—	—	627-98-5

MID DUAL MASS SPECTRUM
08/19/87 3:16:00 + 23:48
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
GC TEMP: 210 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 #757
CALI: 14558V8 #2

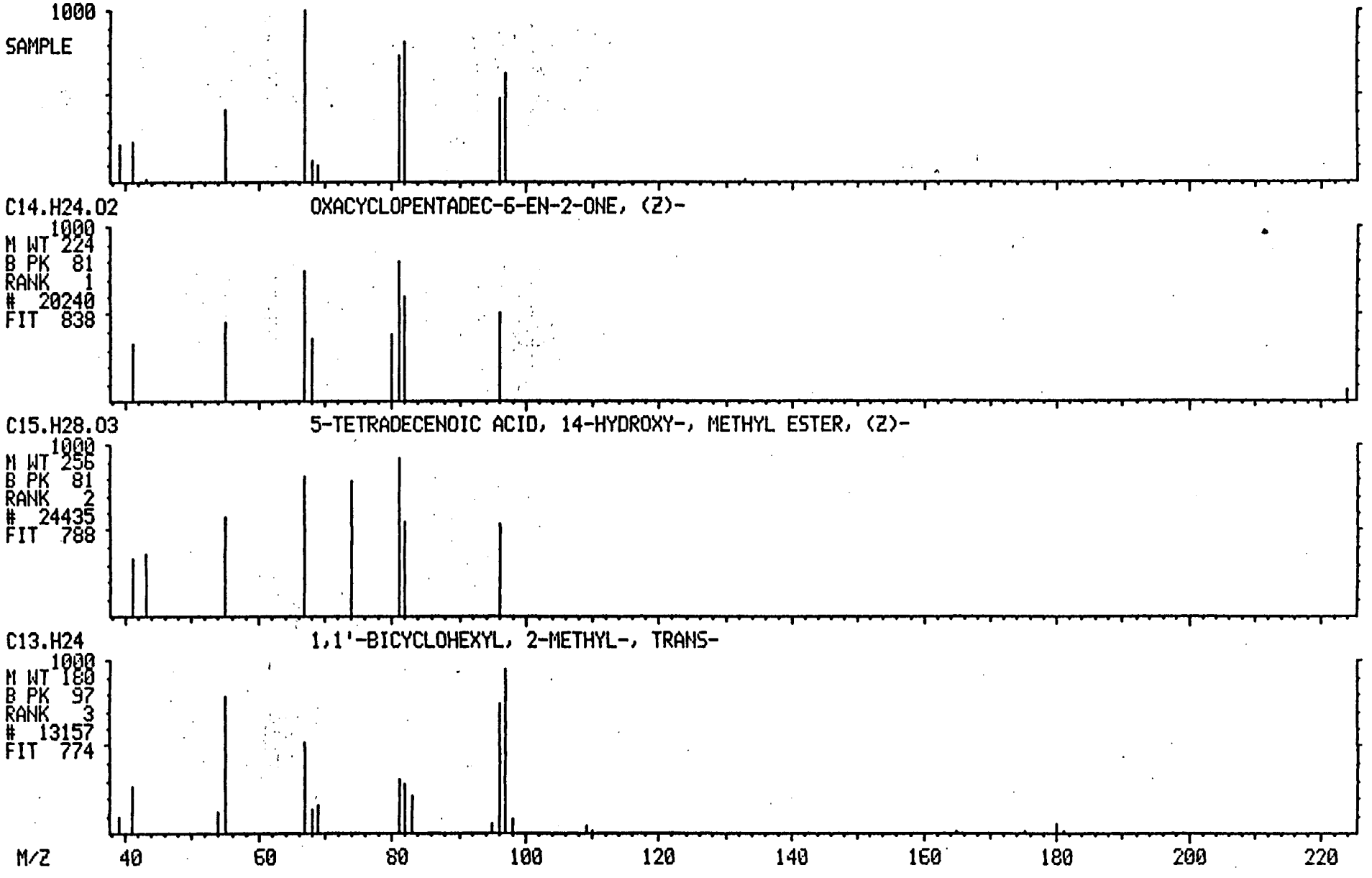
BASE M/Z: 67/ 67
RIC: 13311./ 21247.



MID LIBRARY SEARCH
08/19/87 3:16:00 + 23:48
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 # 757
CALI: 14558V8 # 2

BASE M/Z: 67
RIC: 13311.



288

MID Library Search Data: 14558V8 # 757 Base m/z: 67
08/19/87 3:16:00 + 23:48 Cali: 14558V8 # 2 RIC: 13311.
Sample: 14558-8
Conds.: 5.1833 GMS/10.0 MLS, 100 UL PURGED
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	20240	OXACYCLOPENTADEC-6-EN-2-ONE, (Z)-
2	24435	5-TETRADECENOIC ACID, 14-HYDROXY-, METHYL ESTER, (Z)-
3	13157	1,1'-BICYCLOHEXYL, 2-METHYL-, TRANS-
4	3446	PENTALENE, OCTAHYDRO-2-METHYL-
5	13156	1,1'-BICYCLOHEXYL, 2-METHYL-, CIS-

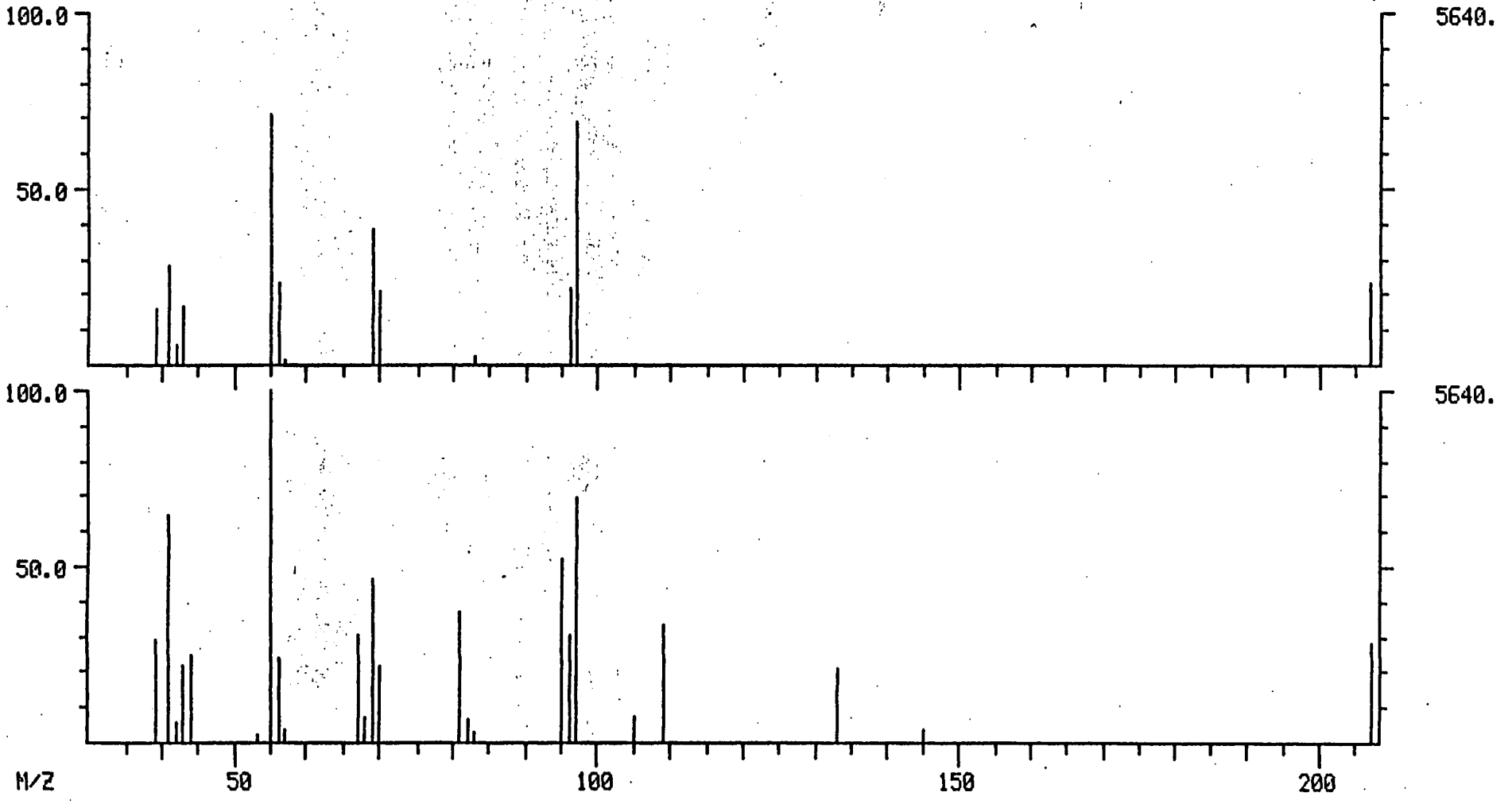
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H24.O2	224	81	654	838	760
2	C15.H28.O3	256	81	599	788	721
3	C13.H24	180	97	767	774	892
4	C9.H16	124	81	615	766	775
5	C13.H24	180	97	748	755	914

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	63958-52-1
2	———	———	———	———	69494-18-4
3	———	———	———	———	50991-09-8
4	———	———	———	———	3868-64-2
5	———	———	———	———	50991-08-7

MID DUAL MASS SPECTRUM
08/19/87 3:16:00 + 24:46
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 #788
CALI: 14558V8 #2

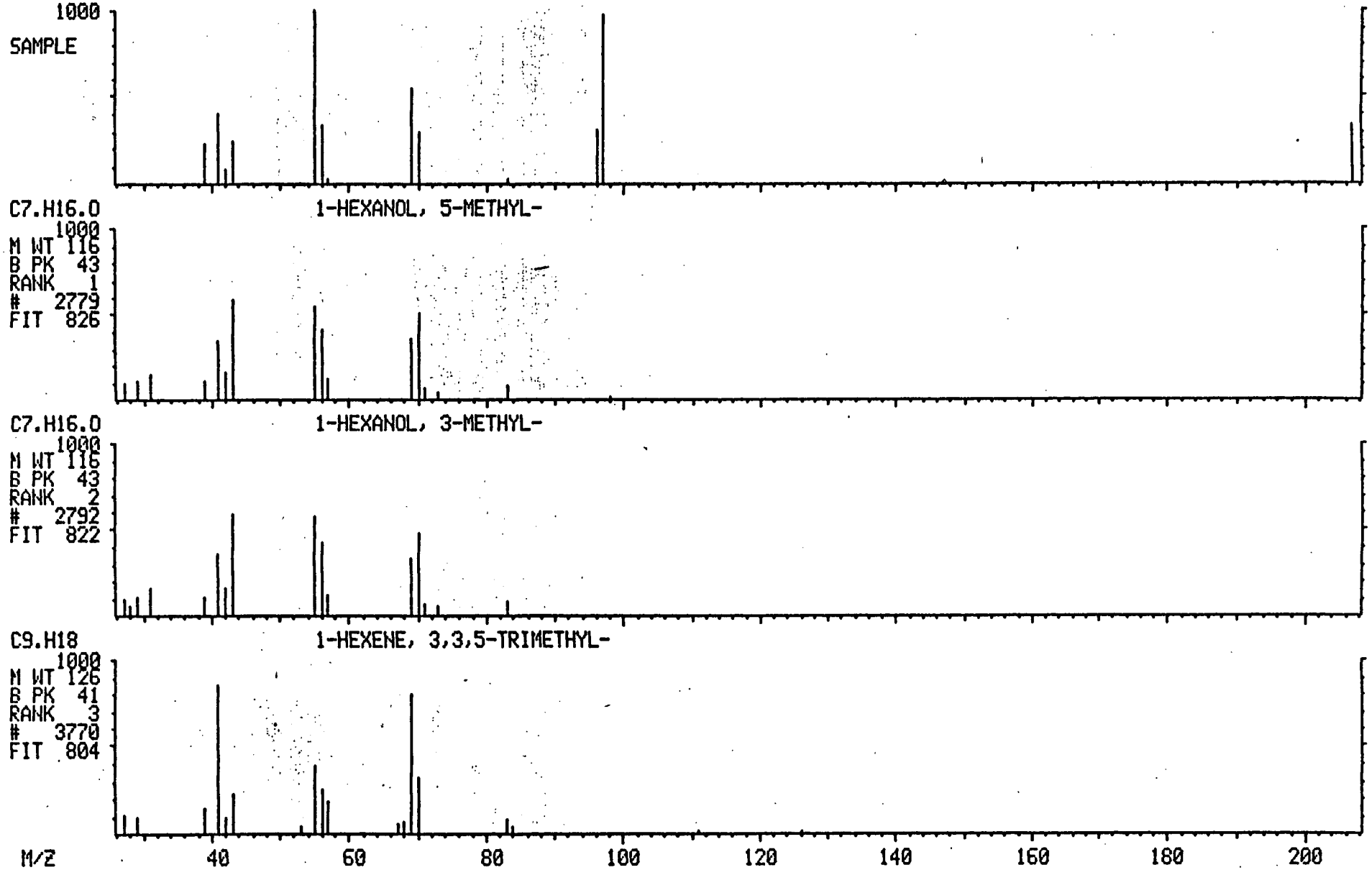
BASE M/Z: 55/ 55
RIC: 19103./ 38079.



MID LIBRARY SEARCH
08/19/87 3:16:00 + 24:45
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 # 788
CALI: 14558V8 # 2

BASE M/Z: 55
RIC: 19135.



182

MID Library Search Data: 14558V8 # 788 Base m/z: 55
08/19/87 3:16:00 + 24:46 Cali: 14558V8 # 2 RIC: 19135.
Sample: 14558-8
Conds.: 5.1833 GMS/10.0 MLS, 100 UL PURGED
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	2779	1-HEXANOL, 5-METHYL-
2	2792	1-HEXANOL, 3-METHYL-
3	3770	1-HEXENE, 3,3,5-TRIMETHYL-
4	2251	CYCLOHEPTANE, METHYL-
5	1153	CYCLOPENTANE, 1,1-DIMETHYL-

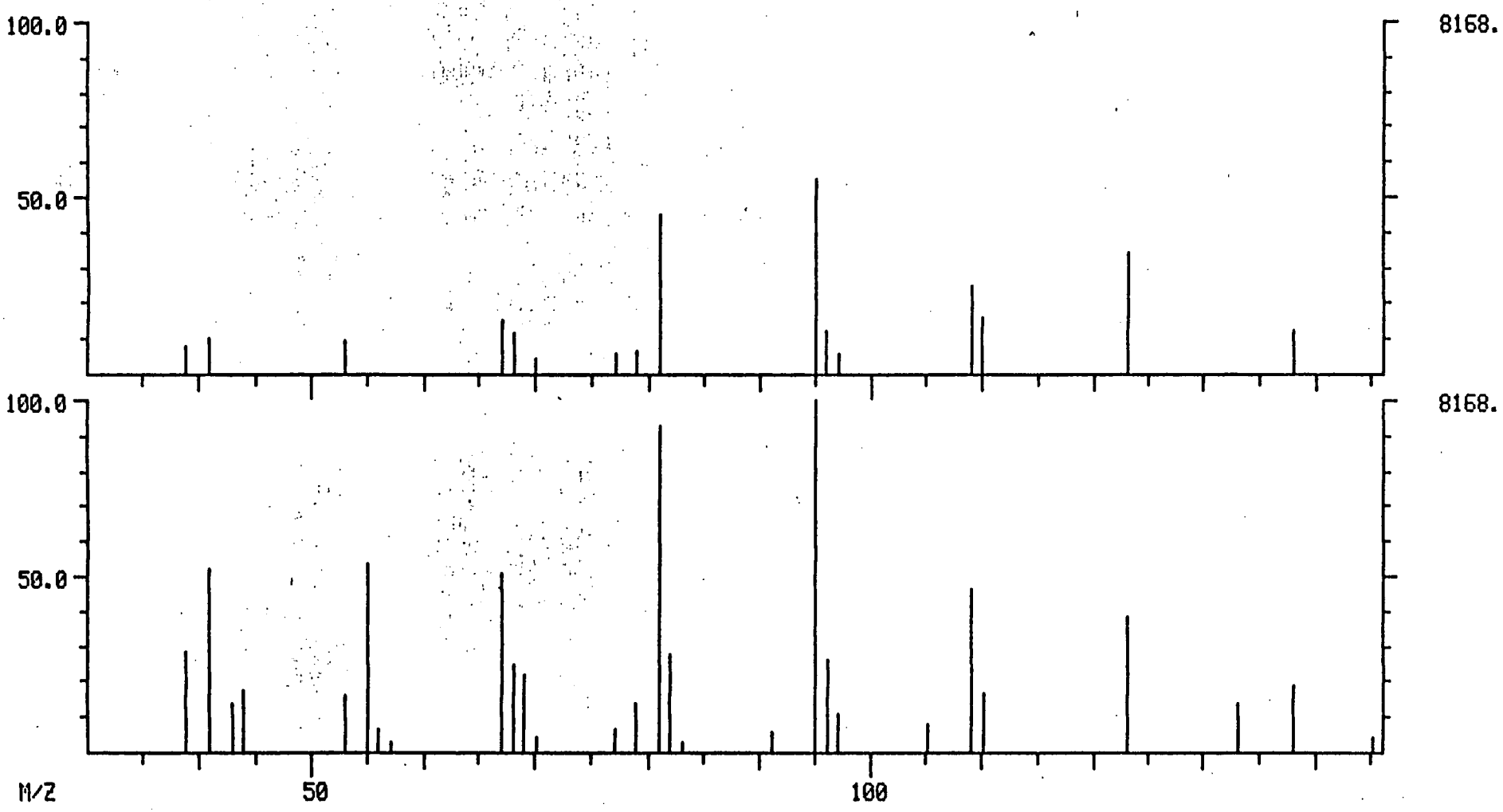
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H16.O	116	43	393	826	435
2	C7.H16.O	116	43	392	822	437
3	C9.H18	126	41	383	804	427
4	C8.H16	112	97	607	748	725
5	C7.H14	98	56	350	735	388

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	627-98-5
2	___	___	___	___	13231-81-7
3	___	___	___	___	13427-43-5
4	___	___	___	___	4126-78-7
5	___	___	___	___	1638-26-2

MID DUAL MASS SPECTRUM
08/19/87 3:16:00 + 25:11
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 #801
CALI: 14558V8 #2

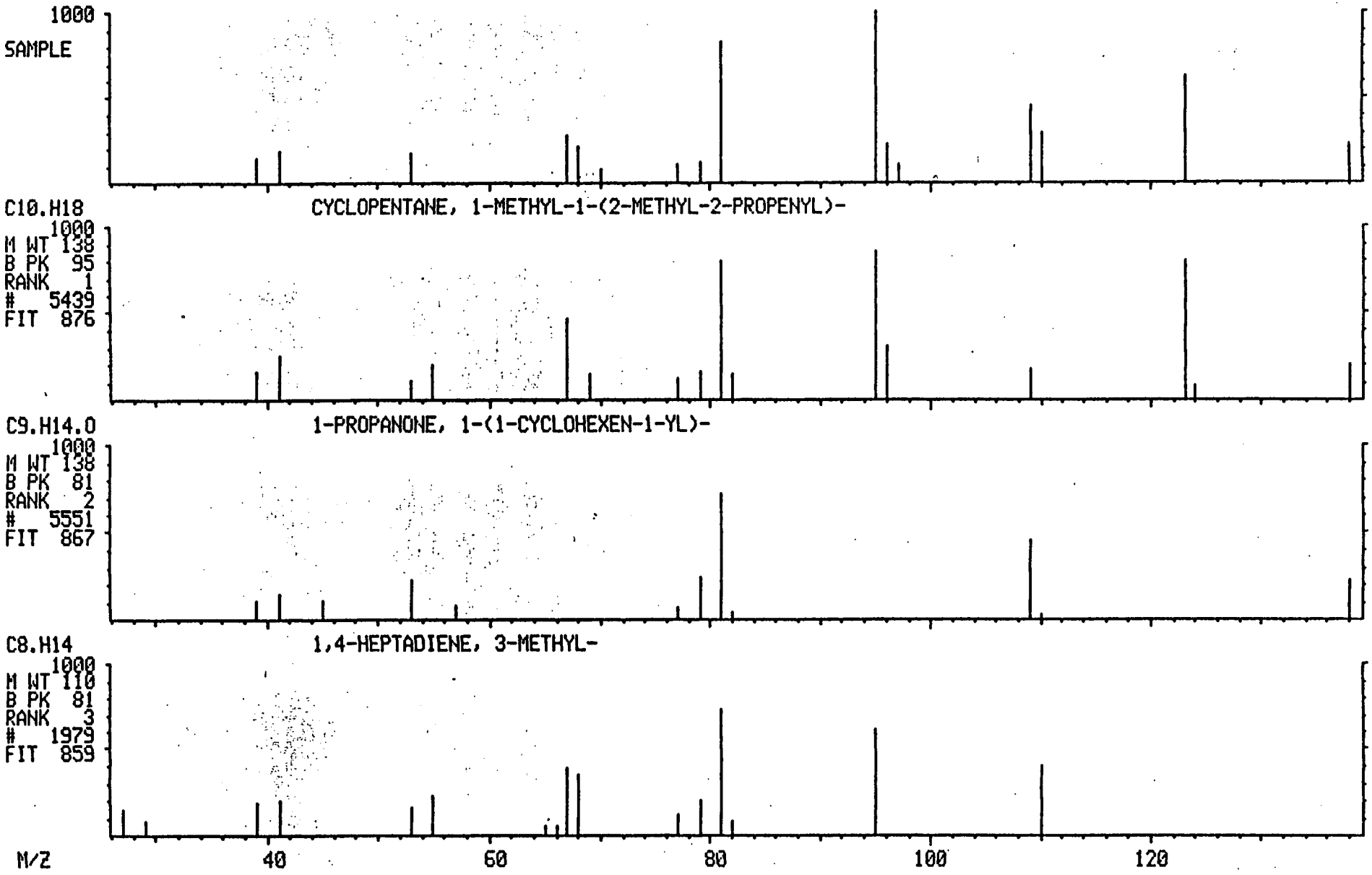
BASE M/Z: 95/ 95
RIC: 22687./ 59135.



MID LIBRARY SEARCH
08/19/87 3:16:00 + 25:11
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 # 801
CALI: 14558V8 # 2

BASE M/Z: 95
RIC: 22687.



MID Library Search Data: 14558V8 # 801 Base m/z: 95
08/19/87 3:16:00 + 25:11 Cali: 14558V8 # 2 RIC: 22687.
Sample: 14558-8
Conds.: 5.1833 GMS/10.0 MLS, 100 UL PURGED
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	5439	CYCLOPENTANE, 1-METHYL-1-(2-METHYL-2-PROPENYL)-
2	5551	1-PROPANONE, 1-(1-CYCLOHEXEN-1-YL)-
3	1979	1,4-HEPTADIENE, 3-METHYL-
4	2018	3-HEPTYNE, 5-METHYL-
5	5575	2-CYCLOHEXEN-1-ONE, 4-ETHYL-4-METHYL-

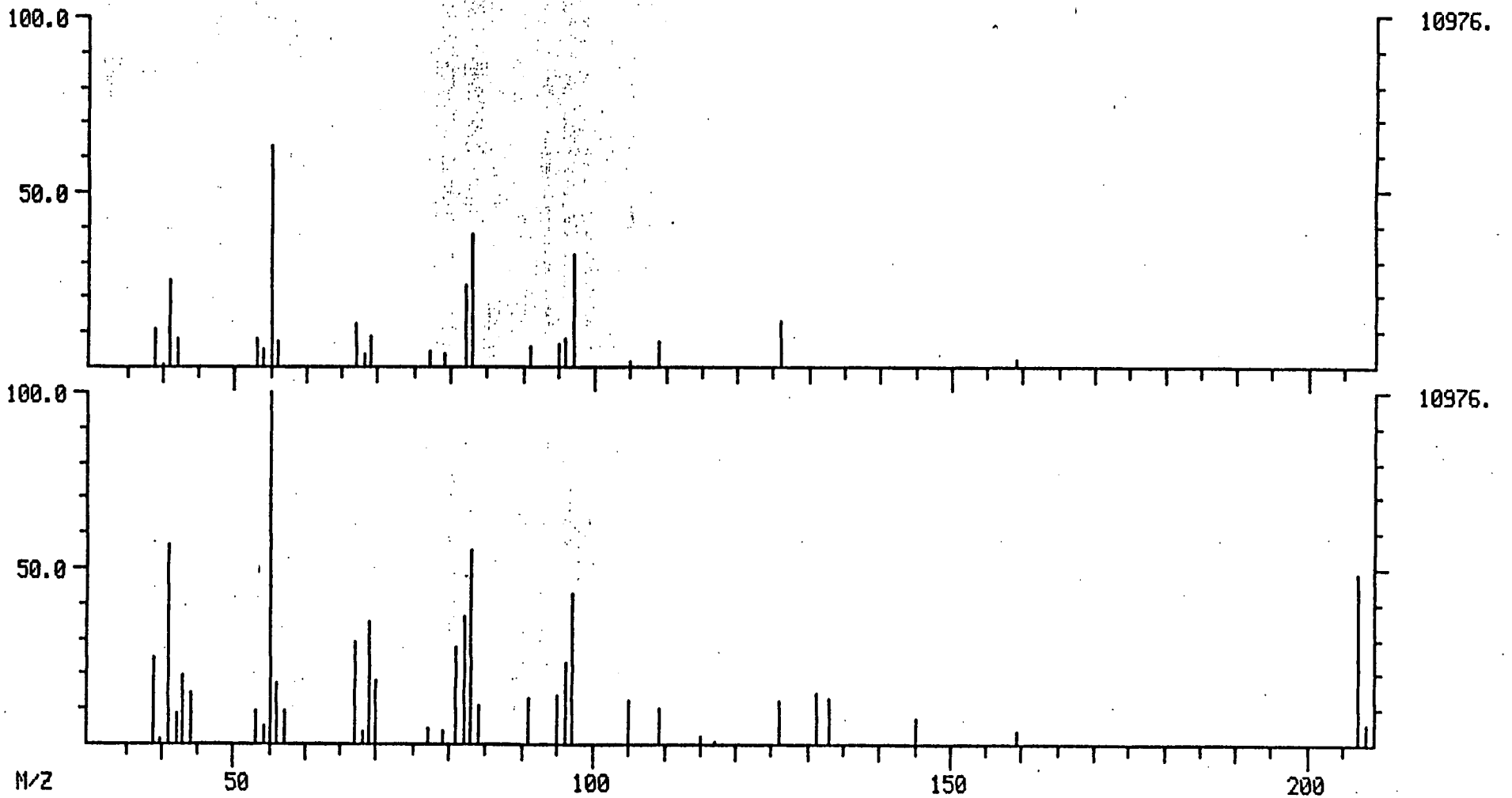
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H18	138	95	759	876	840
2	C9.H14.O	138	81	411	867	439
3	C8.H14	110	81	497	859	561
4	C8.H14	110	81	443	858	471
5	C9.H14.O	138	81	649	845	719

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	———	———	———	———	74764-47-9
2	———	———	———	———	1655-03-4
3	———	———	———	———	1603-01-6
4	———	———	———	———	61228-09-9
5	———	———	———	———	17429-32-2

MID DUAL MASS SPECTRUM
08/19/87 3:16:00 + 26:49
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 #853
CALI: 14558V8 #2

BASE M/Z: 55/ 55
RIC: 32639./ 78335.

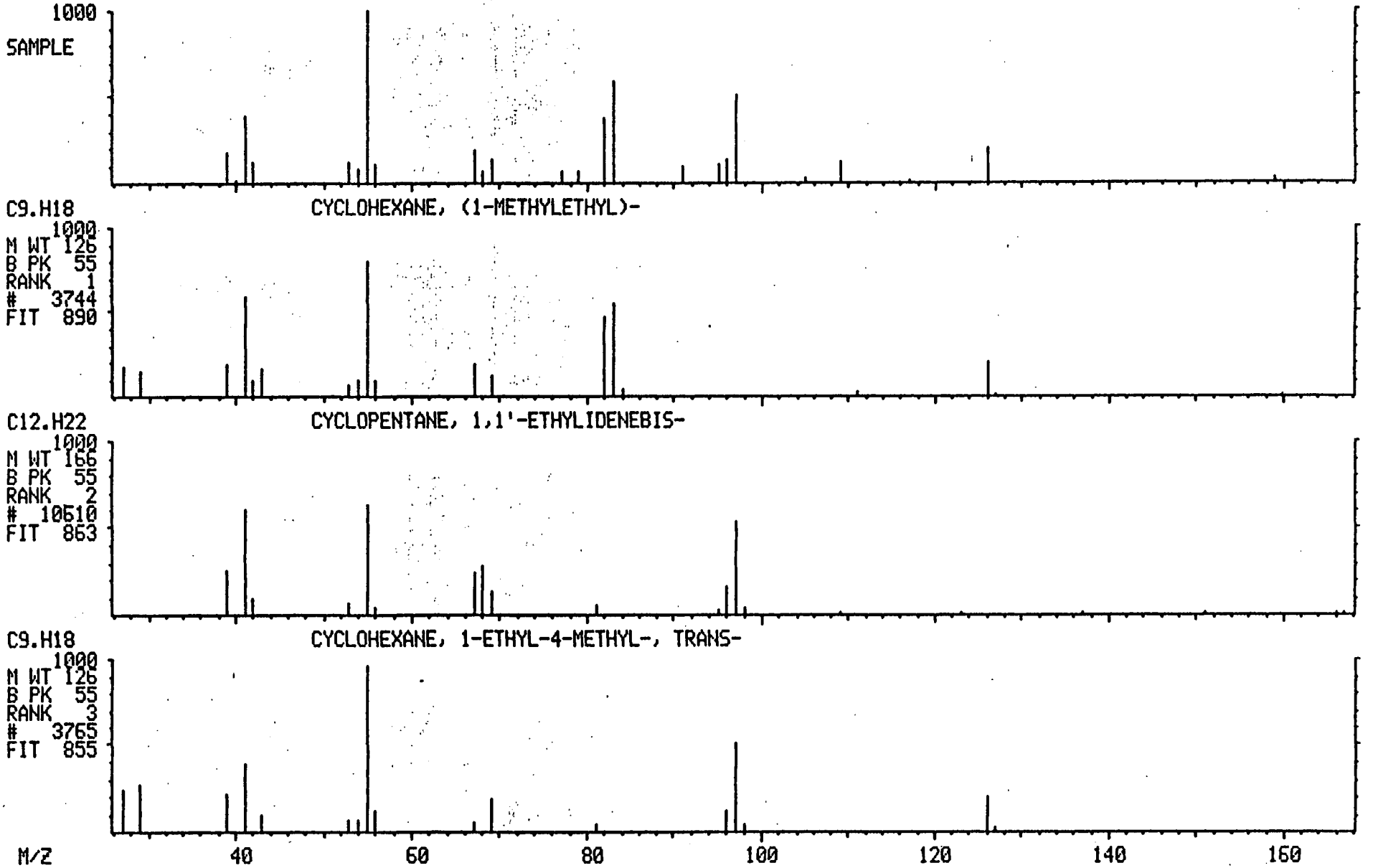


2 of 2

MID LIBRARY SEARCH
08/19/87 3:16:00 + 26:49
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 # 853
CALI: 14558V8 # 2

BASE M/Z: 55
RIC: 32639.



MID Library Search Data: 14558V8 # 853 Base m/z: 55
08/19/87 3:16:00 + 26:49 Cali: 14558V8 # 2 RIC: 32639.
Sample: 14558-8
Conds.: 5.1833 GMS/10.0 MLS, 100 UL PURGED
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	3744	CYCLOHEXANE, (1-METHYLETHYL)-
2	10610	CYCLOPENTANE, 1,1'-ETHYLIDENEBIS-
3	3765	CYCLOHEXANE, 1-ETHYL-4-METHYL-, TRANS-
4	3763	CYCLOHEXANE, 1-ETHYL-4-METHYL-, CIS-
5	22942	PROPANEDINITRILE, CYCLOHEXYL(2-METHYLCYCLOHEXYL)-

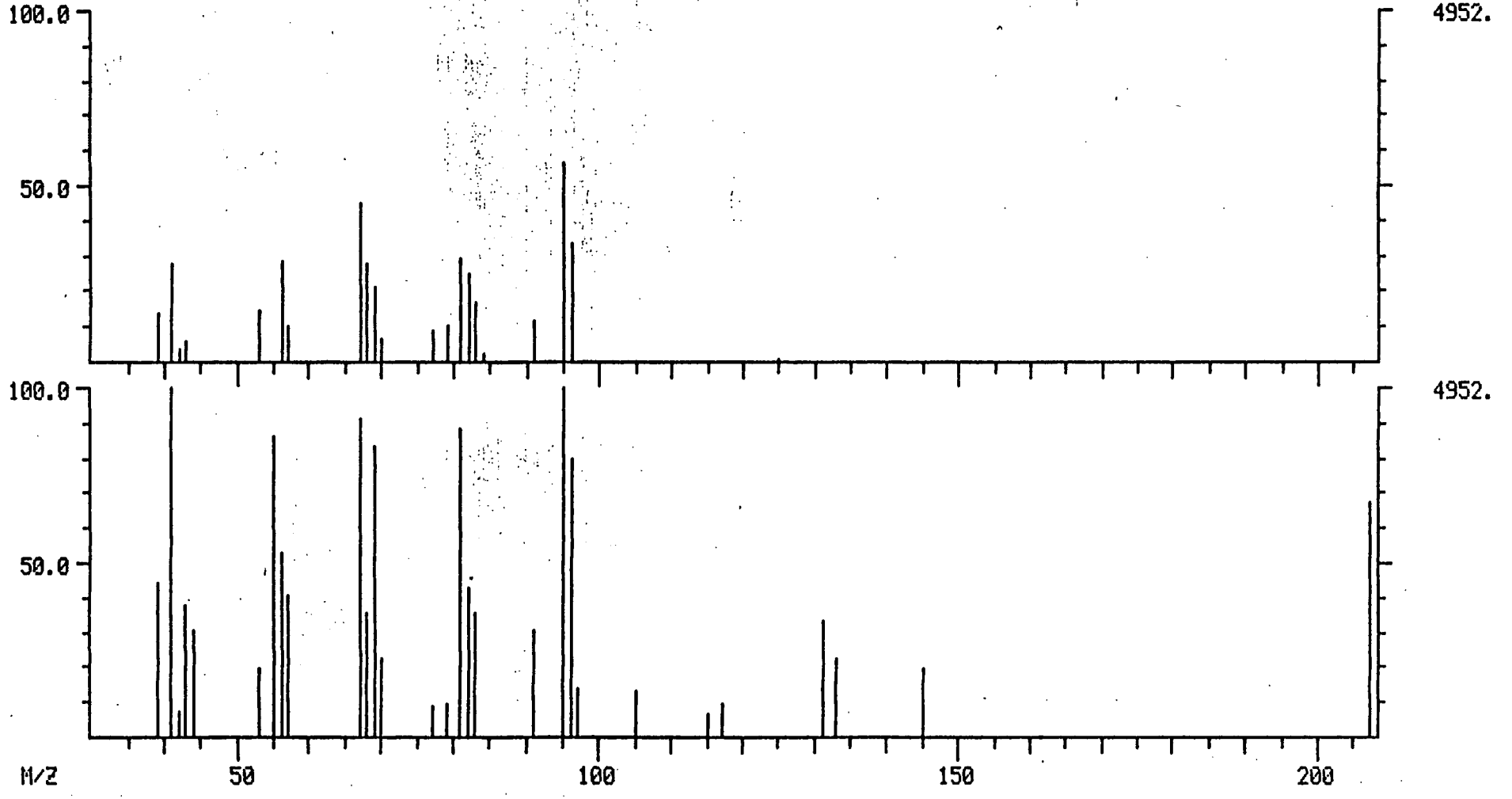
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	55	590	890	654
2	C12.H22	166	55	519	863	551
3	C9.H18	126	55	508	855	583
4	C9.H18	126	55	508	855	584
5	C16.H24.N2	244	55	568	853	630

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	696-29-7
2	———	———	———	———	4413-21-2
3	———	———	———	———	6236-88-0
4	———	———	———	———	4926-78-7
5	———	———	———	———	74764-55-9

MID DUAL MASS SPECTRUM
08/19/87 3:16:00 + 27:23
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 #871
CALI: 14558V8 #2

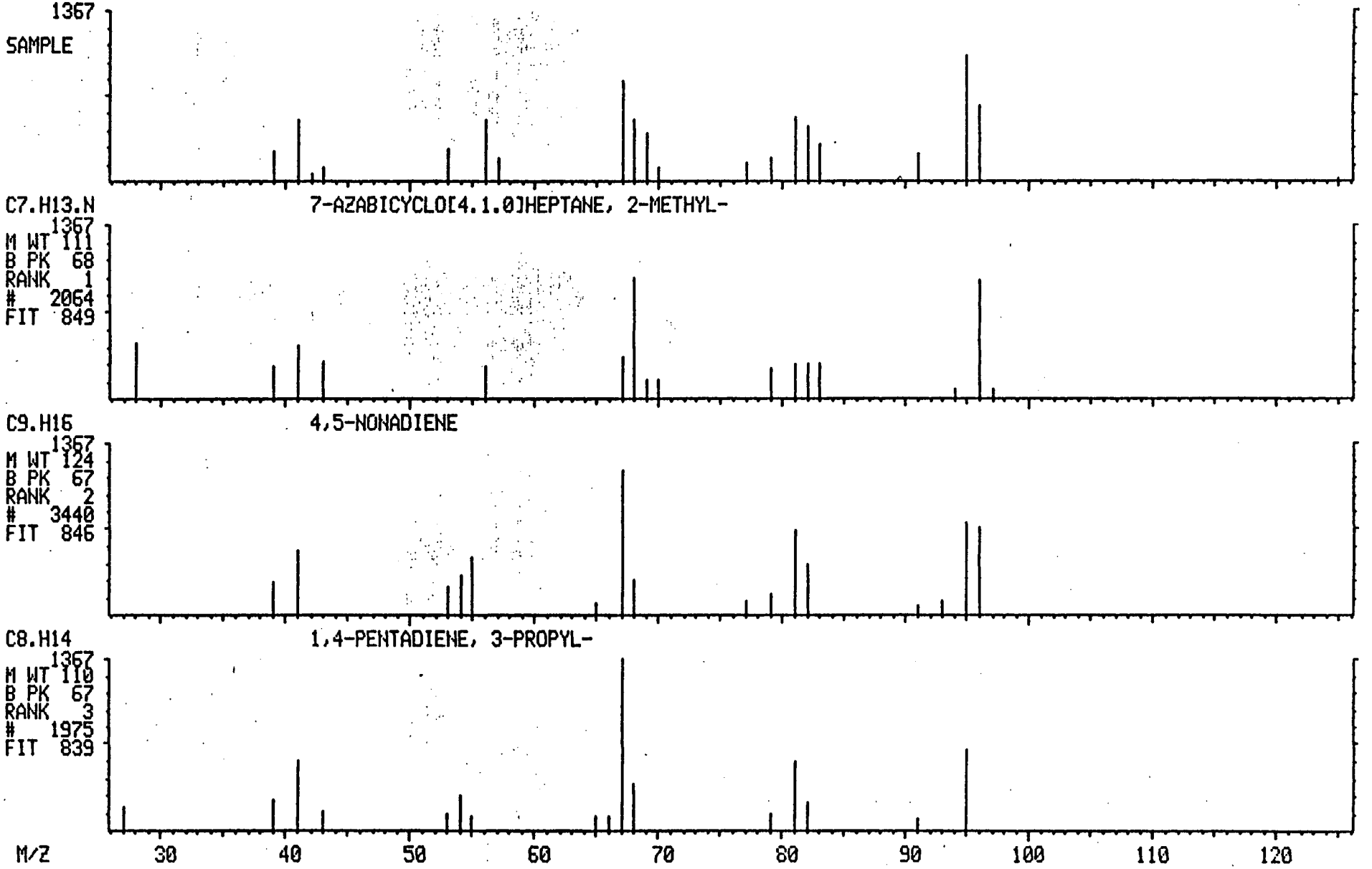
BASE M/Z: 95/ 95
RIC: 19647./ 61055.



MID LIBRARY SEARCH
08/19/87 3:16:00 + 27:23
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 # 871
CALI: 14558V8 # 2

BASE M/Z: 95
RIC: 19551.



30

MID Library Search Data: 14558V8 # 871 Base m/z: 95
08/19/87 3:16:00 + 27:23 Cali: 14558V8 # 2 RIC: 19551.
Sample: 14558-8
Conds.: 5.1833 GMS/10.0 MLS, 100 UL PURGED
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	2064	7-AZABICYCLO[4.1.0]HEPTANE, 2-METHYL-
2	3440	4,5-NONADIENE
3	1975	1,4-PENTADIENE, 3-PROPYL-
4	6320	6-NONEN-1-OL, (E)-
5	3480	3-OCTYNE, 5-METHYL-

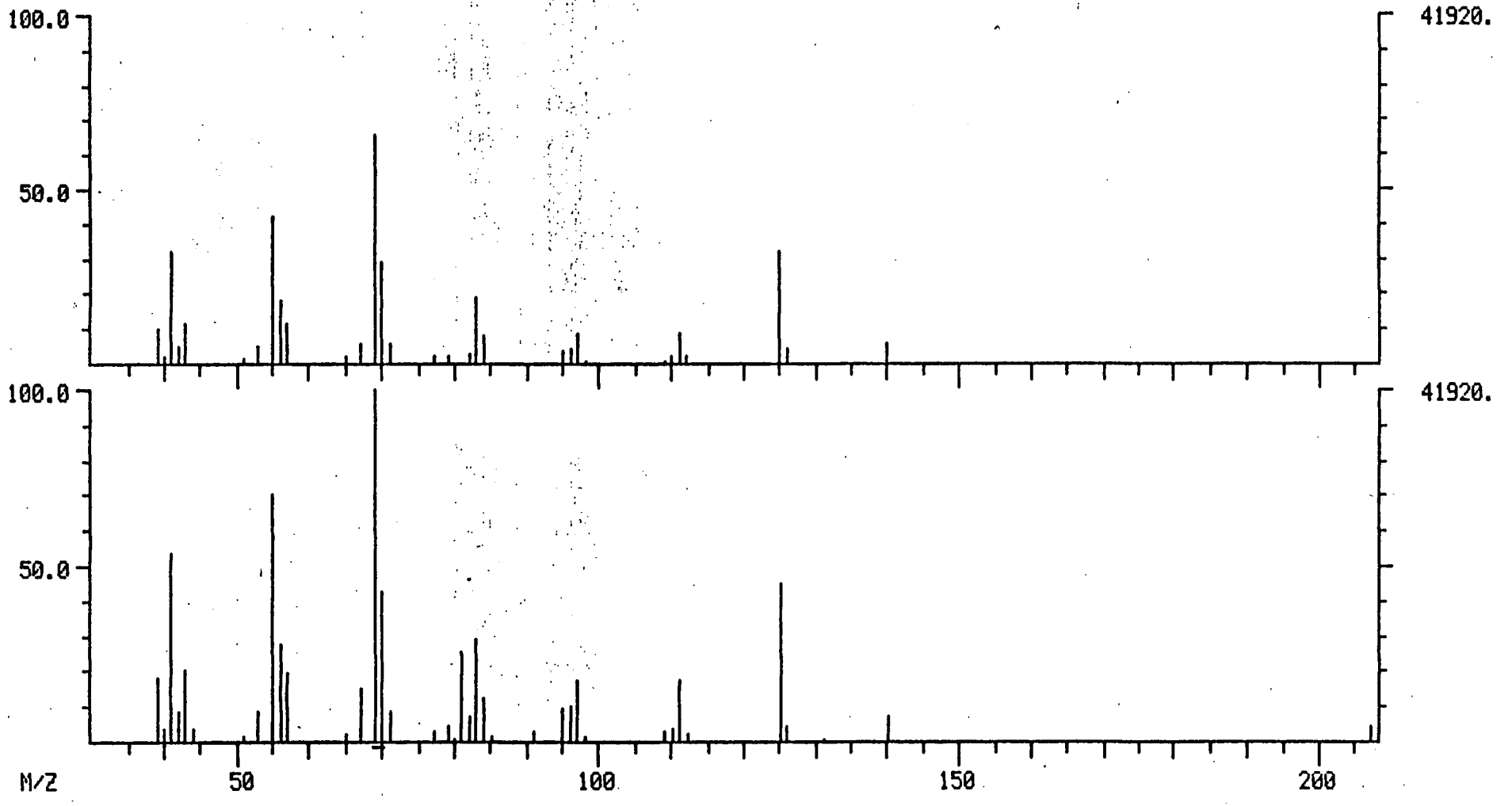
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H13.N	111	68	592	849	640
2	C9.H16	124	67	670	846	769
3	C8.H14	110	67	558	839	633
4	C9.H18.O	142	95	621	819	739
5	C9.H16	124	95	571	818	670

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	55903-15-6
2	___	___	___	___	821-74-9
3	___	___	___	___	996-83-8
4	___	___	___	___	31502-19-9
5	___	___	___	___	62108-33-2

MID DUAL MASS SPECTRUM
08/19/87 3:16:00 + 28:14
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 #898
CALI: 14558V8 #2

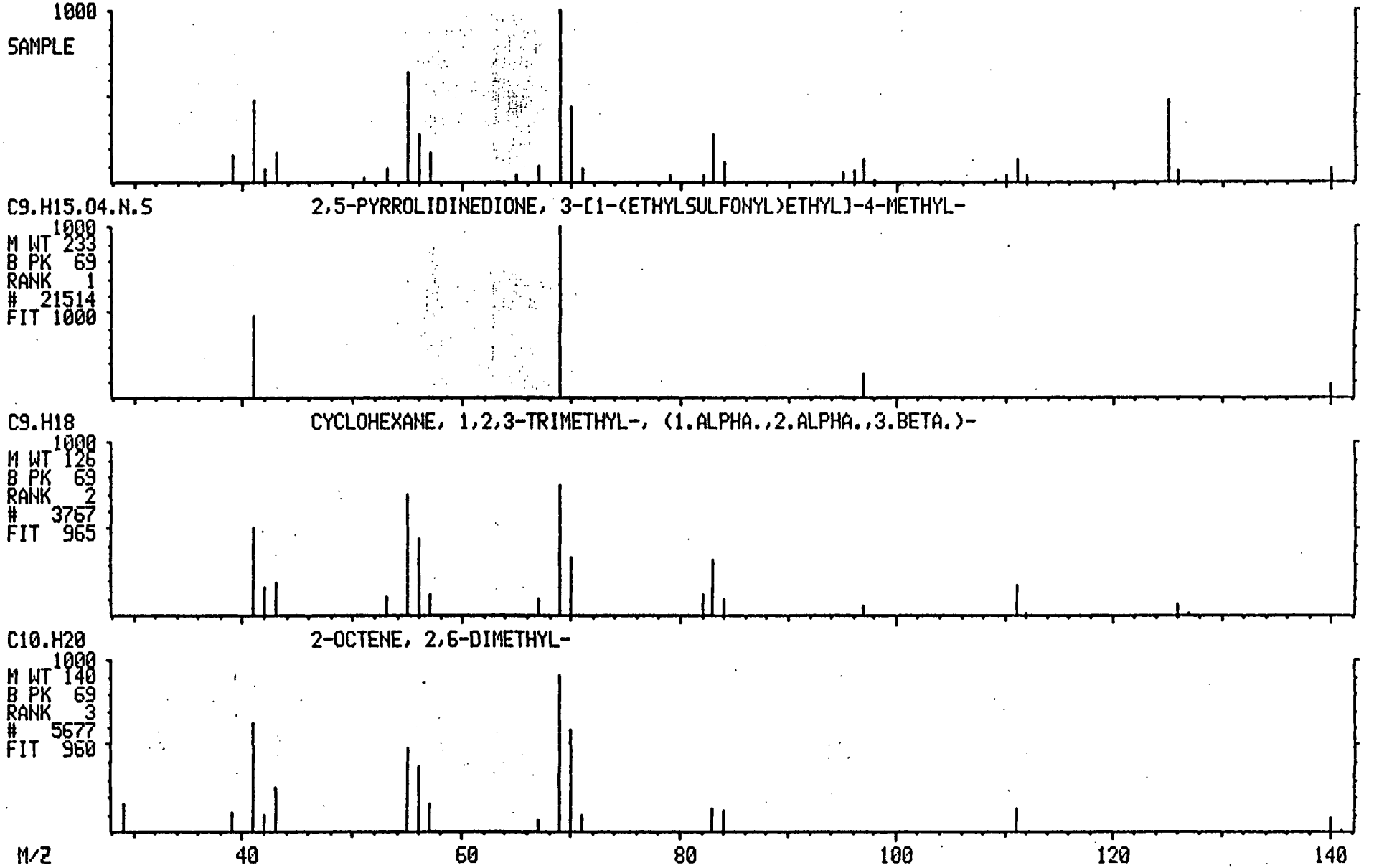
BASE M/Z: 69/ 69
RIC: 149247./ 259327.



MID LIBRARY SEARCH
08/19/87 3:16:00 + 28:14
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 # 898
CALI: 14558V8 # 2

BASE M/Z: 69
RIC: 147455.



MID Library Search Data: 14558V8 # 898 Base m/z: 69
08/19/87 3:16:00 + 28:14 Cali: 14558V8 # 2 RIC: 147455.
Sample: 14558-8
Conds.: 5.1833 GMS/10.0 MLS, 100 UL PURGED
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	21514	2,5-PYRROLIDINEDIONE, 3-[1-(ETHYLSULFONYL)ETHYL]-4-METHYL-
2	3767	CYCLOHEXANE, 1,2,3-TRIMETHYL-, (1.ALPHA.,2.ALPHA.,3.BETA.)-
3	5677	2-OCTENE, 2,6-DIMETHYL-
4	5690	CYCLOOCTANE, 1,4-DIMETHYL-, TRANS-
5	8352	CYCLOPENTANE, 1-BUTYL-2-ETHYL-

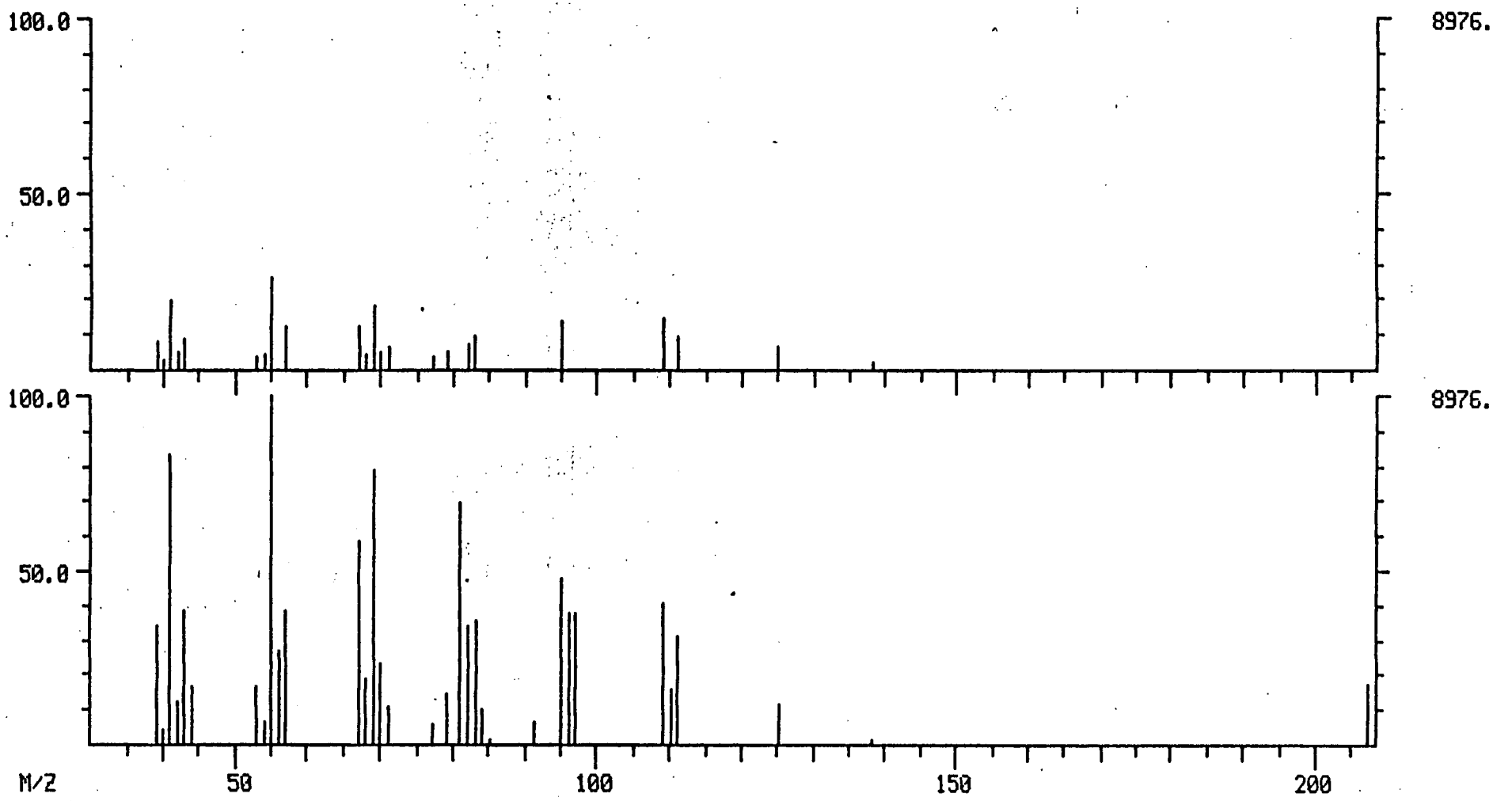
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H15.O4.N.S	233	69	293	1000	293
2	C9.H18	126	69	694	965	696
3	C10.H20	140	69	670	960	685
4	C10.H20	140	55	831	951	831
5	C11.H22	154	69	675	946	679

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	58467-34-8
2	———	———	———	———	7667-55-2
3	———	———	———	———	4057-42-5
4	———	———	———	———	13151-98-9
5	———	———	———	———	72993-32-9

MID DUAL MASS SPECTRUM
08/19/87 3:16:00 + 28:46
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 #915
CALI: 14558V8 #2

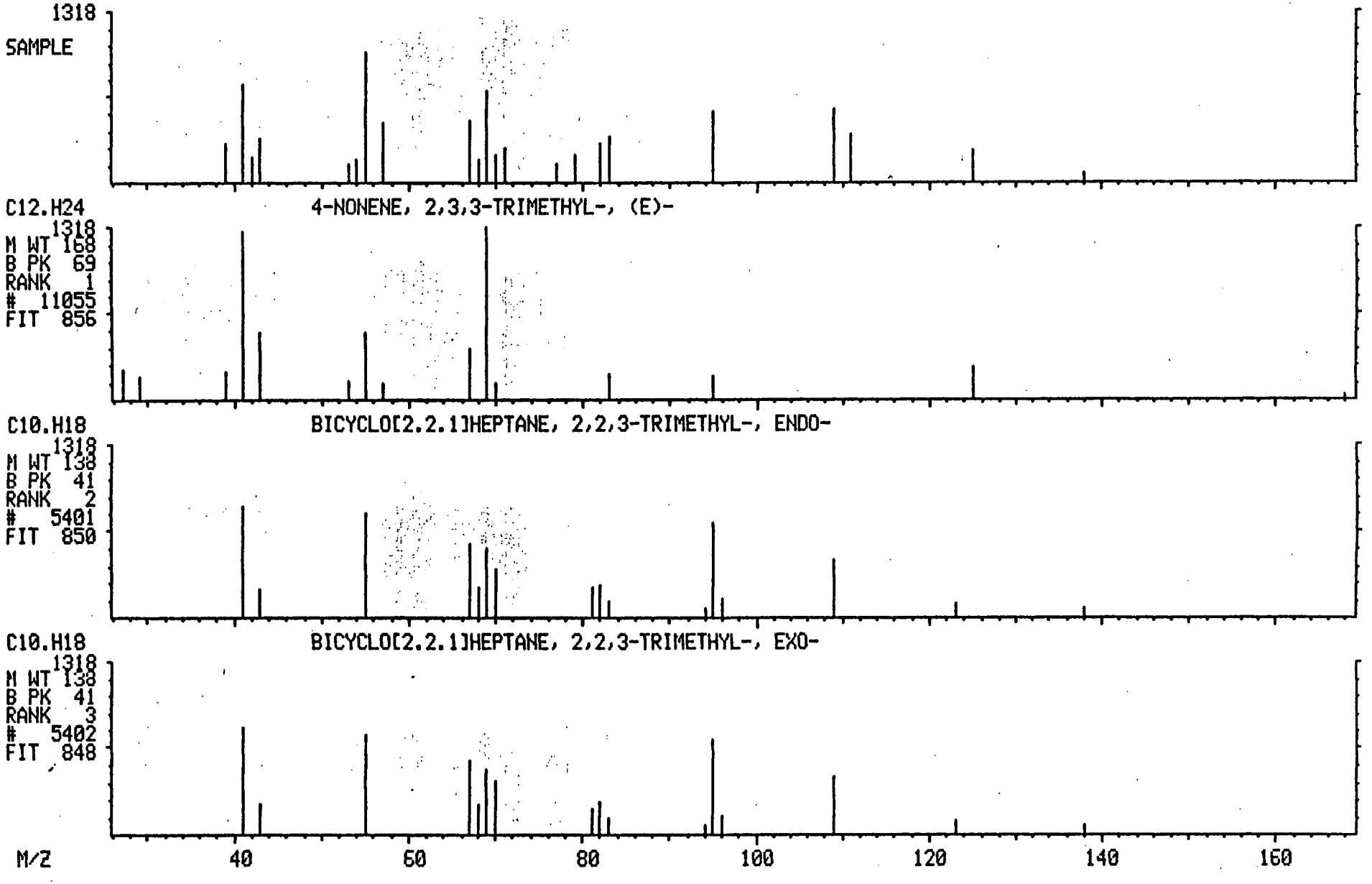
BASE M/Z: 55/ 55
RIC: 18815./ 88831.



MID LIBRARY SEARCH
08/19/87 3:16:00 + 28:46
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 # 915
CALI: 14558V8 # 2

BASE M/Z: 55
RIC: 18559.



MID Library Search Data: 14558V8 # 915 Base m/z: 55
08/19/87 3:16:00 + 28:46 Cali: 14558V8 # 2 RIC: 18559.
Sample: 14558-8
Conds.: 5.1833 GMS/10.0 MLS, 100 UL PURGED
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	11055	4-NONENE, 2,3,3-TRIMETHYL-, (E)-
2	5401	BICYCLO[2.2.1]HEPTANE, 2,2,3-TRIMETHYL-, ENDO-
3	5402	BICYCLO[2.2.1]HEPTANE, 2,2,3-TRIMETHYL-, EXO-
4	3485	1,6-HEPTADIENE, 3,5-DIMETHYL-
5	3777	CYCLOPENTANE, 1-METHYL-3-(1-METHYLETHYL)-

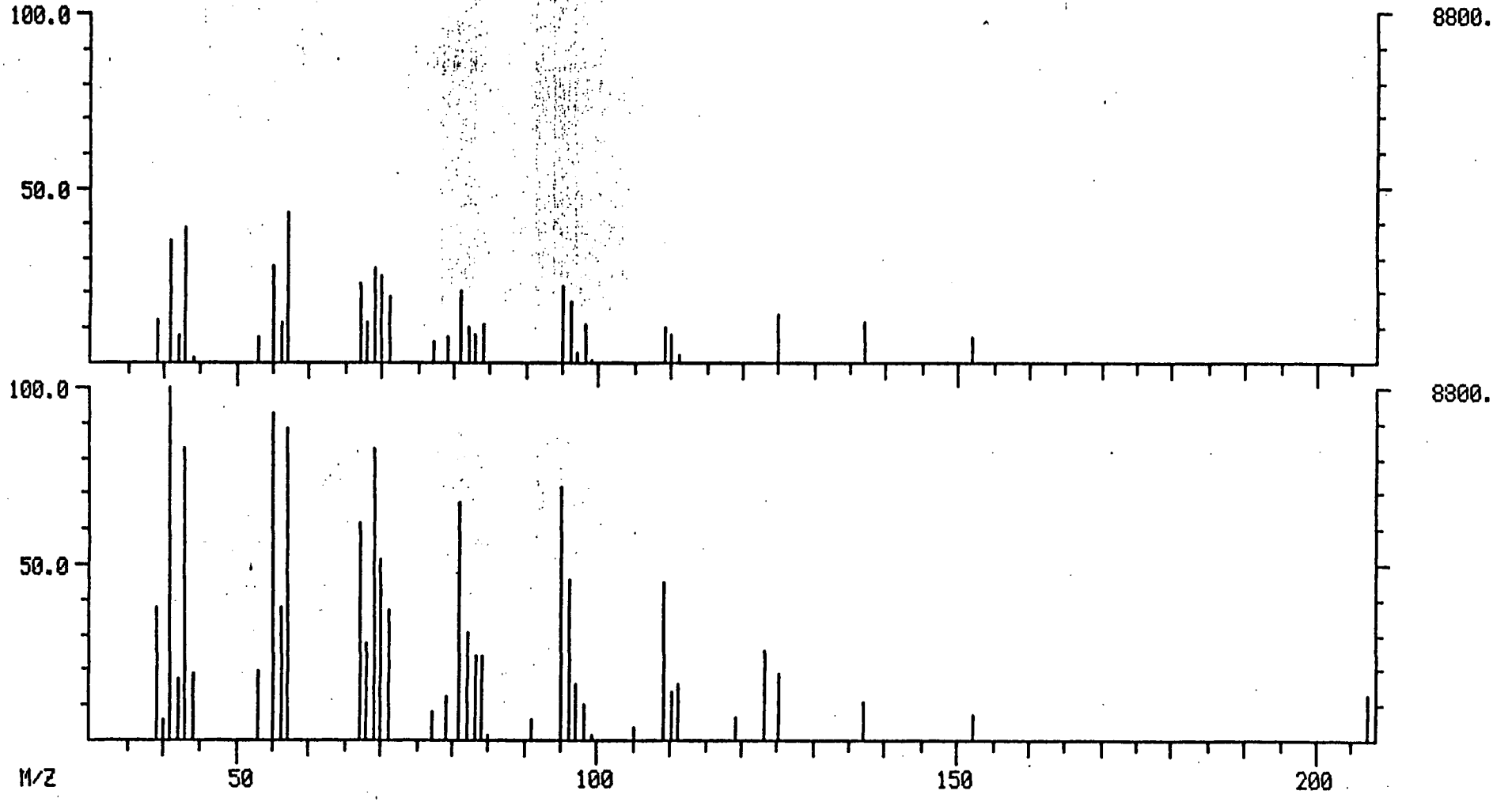
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H24	168	69	534	856	565
2	C10.H18	138	41	577	850	658
3	C10.H18	138	41	575	848	655
4	C9.H16	124	41	532	844	588
5	C9.H18	126	55	500	841	561

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	63830-67-1
2	___	___	___	___	20536-40-7
3	___	___	___	___	20536-41-8
4	___	___	___	___	68701-99-5
5	___	___	___	___	53771-88-3

MID DUAL MASS SPECTRUM
08/19/87 3:16:00 + 29:33
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 #940
CALI: 14558V8 #2

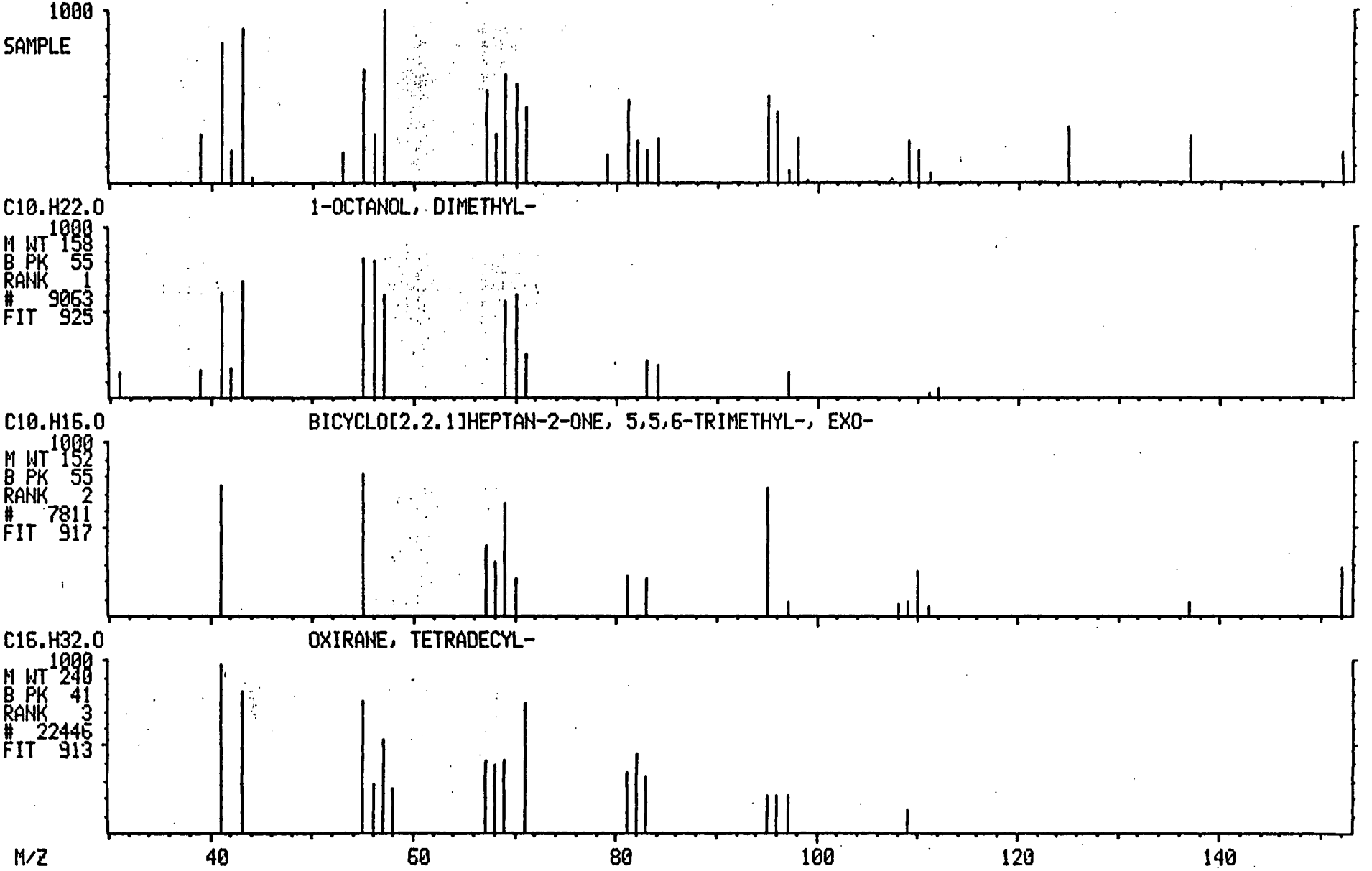
BASE M/Z: 57/ 41
RIC: 40319./ 109439.



MID LIBRARY SEARCH
08/19/87 3:16:00 + 29:33
SAMPLE: 14558-8
CONDS.: 5.1833 GMS/10.0 MLS,100 UL PURGED
ENHANCED (S 15B 2N 0T)

DATA: 14558V8 # 940
CALI: 14558V8 # 2

BASE M/Z: 57
RIC: 39807.



MID Library Search Data: 14558V8 # 940 Base m/z: 57
08/19/87 3:16:00 + 29:33 Cali: 14558V8 # 2 RIC: 39807.
Sample: 14558-8
Conds.: 5.1833 GMS/10.0 MLS, 100 UL PURGED
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	9063	1-OCTANOL, DIMETHYL-
2	7811	BICYCLO[2.2.1]HEPTAN-2-ONE, 5,5,6-TRIMETHYL-, EXO-
3	22446	OXIRANE, TETRADECYL-
4	8300	3-DECYN-2-OL
5	7876	SPIRO[5.5]UNDECANE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22.O	158	55	441	925	454
2	C10.H16.O	152	55	518	917	528
3	C16.H32.O	240	41	602	913	621
4	C10.H18.O	154	43	476	905	493
5	C11.H20	152	41	493	897	501

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	1333-49-9
2	—	—	—	—	3649-86-3
3	—	—	—	—	7320-37-8
4	—	—	—	—	69668-93-5
5	—	—	—	—	180-43-8

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 377

0811753-R

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-9R

Sample wt/vol: 5.4 (g/mL) G Lab File ID: 14558V9R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 8 Date Analyzed: 08/19/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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

CAS NO.	COMPOUND		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	38	
67-64-1	Acetone	11	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	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	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	3	J
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
110-75-8	2-Chloroethylvinylether	11	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	11	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
----------	Total Xylenes	0.7	JX

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 0811753-R

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-9R

Sample wt/vol: 5.4 (g/mL) G Lab File ID: 14558V9R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 0 Date Analyzed: 08/19/87

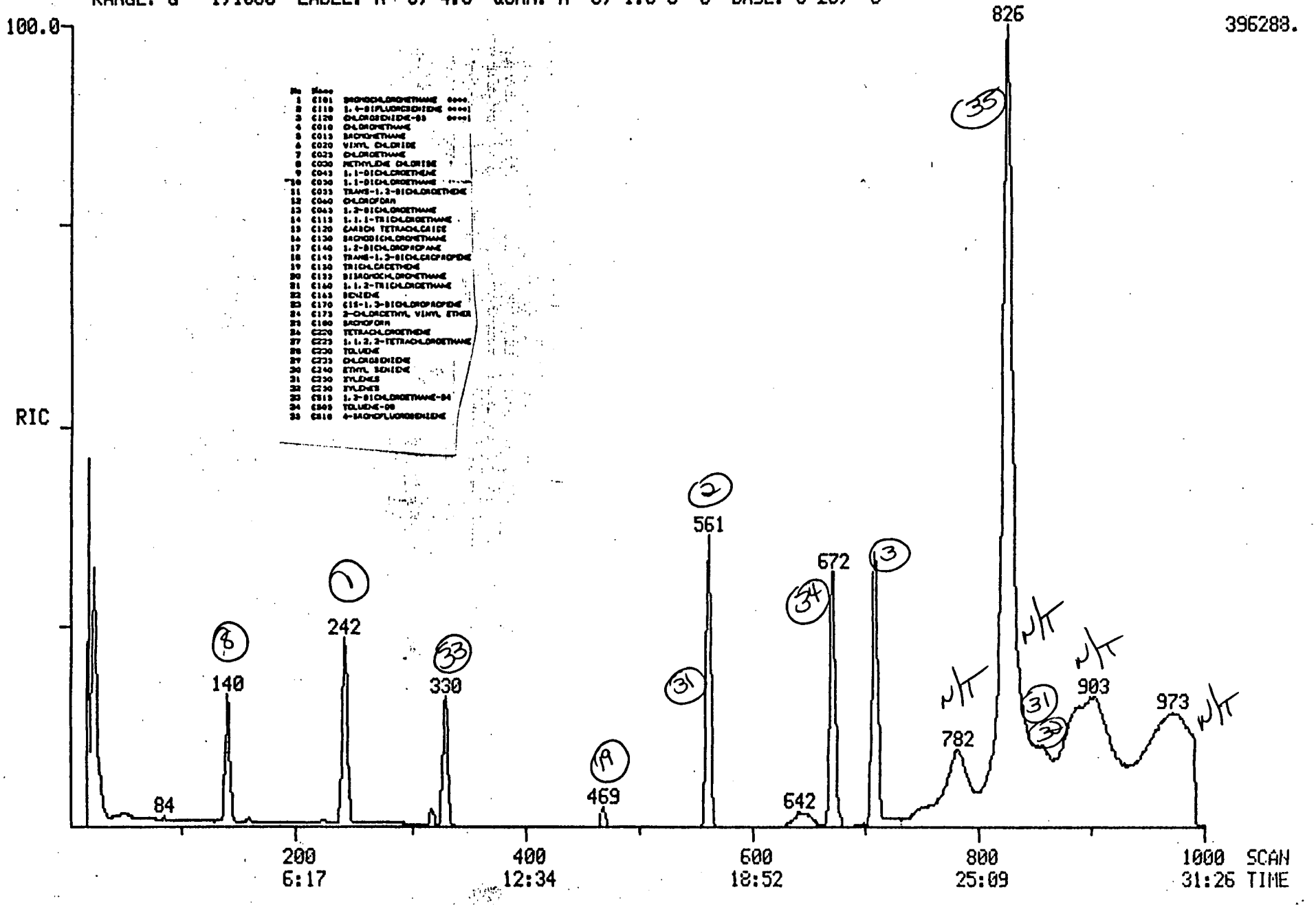
Column (pack/cap) PACKED Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

MIDRIC
08/19/87 14:11:00
SAMPLE: 14558-9
CONDS.: 5.4667 G
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V9R #1 SCANS 1 TO 1000
CALI: 14558V7R2 #2



Quantitation Report File: 14558V9R

Data: 14558V9R.TI
08/19/87 14:11:00
Sample: 14558-9
Conds.: 5.4667 G
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

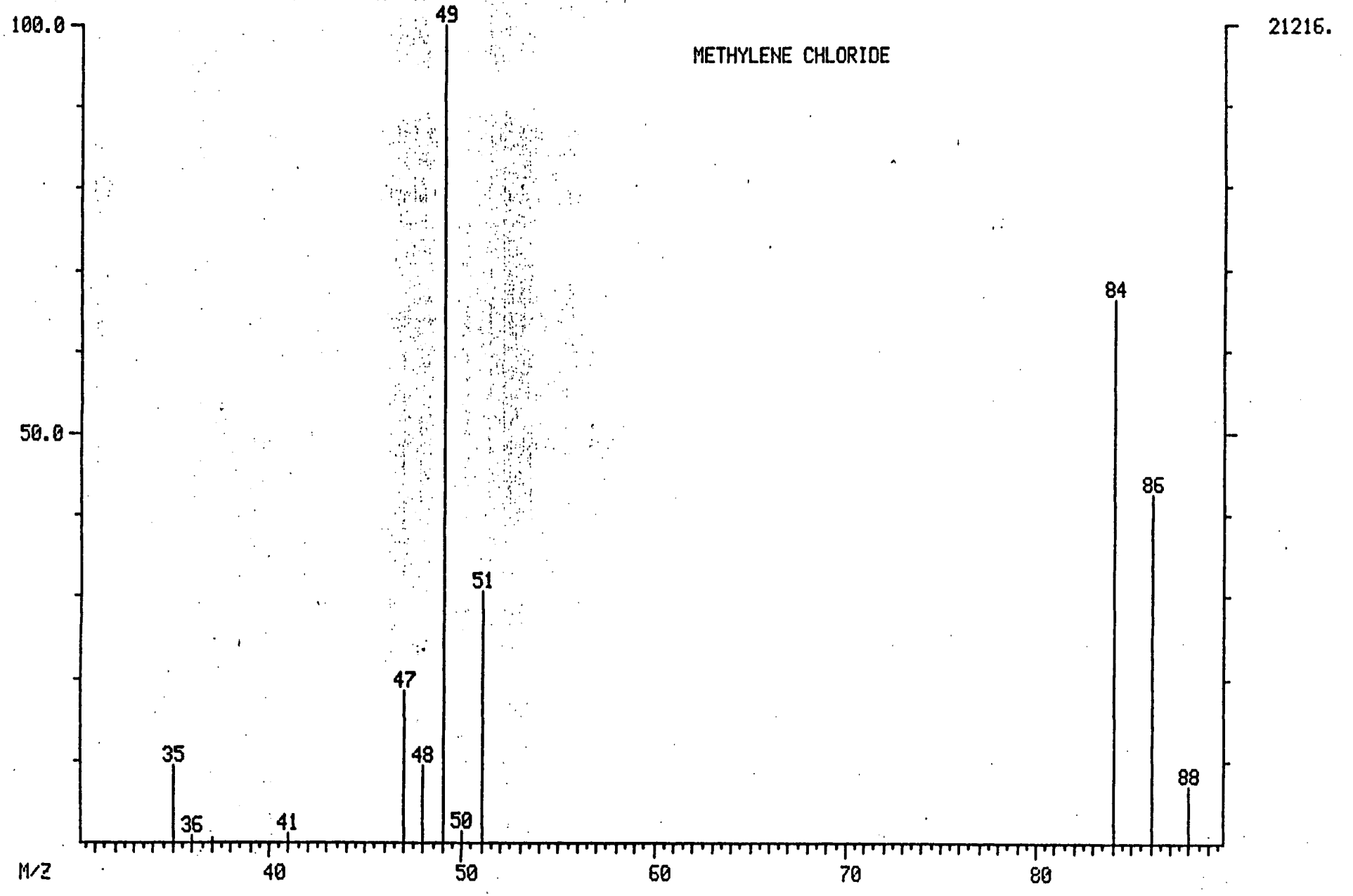
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	128	242	7:36	1	1.000	A BB	70748.	50.000 UG/L	14.59	
2	114	561	17:38	2	1.000	A BB	348344.	50.000 UG/L	14.59	
3	117	709	22:17	3	1.000	A BB	239579.	50.000 UG/L	14.59	
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	84	140	4:24	1	0.579	A BB	69156.	37.988 UG/L	11.09	4NOPA
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
17	NOT FOUND									
18	NOT FOUND									
19	130	469	14:45	2	0.836	A BB	10628.	3.149 UG/L	0.92	4NOPA
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	164	641	20:09	3	0.904	A BB	~~3485.~~	~~1.271 UG/L~~	~~0.37~~	4NOPA
27	NOT FOUND									
28	92	677	21:17	3	0.955	A BB	~~11757.~~	~~3.116 UG/L~~	~~0.91~~	4NOPA
29	NOT FOUND									
30	NOT FOUND									
31	106	857	26:56	3	1.209	A BB	2156.	0.691 UG/L	0.20	4NOPA
32	106	878	27:36	3	1.238	A BB	518.	0.166 UG/L	0.05	4NOPA
33	65	330	10:22	1	1.364	A BB	121064.	48.640 UG/L	14.20	4NOPA
34	98	671	21:06	3	0.946	A BB	274255.	50.410 UG/L	14.71	4NOPA
35	95	824	25:54	3	1.162	A BB	219389.	47.173 UG/L	13.77	4NOPA

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:42	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:17	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19		0.171			50.00		0.461	
5	1:53		0.245			50.00		1.133	
6	2:20		0.302			50.00		1.084	
7	2:55		0.380			50.00		0.830	
8	4:35	0.96	0.596	0.97	37.99	50.00	0.977	1.287	0.76
9	7:12		0.935			50.00		1.284	
10	8:27		1.098			50.00		2.706	
11	9:11		1.192			50.00		1.419	
12	9:50		1.278			50.00		3.374	
13	10:30		1.363			50.00		2.167	
14	11:42		0.663			50.00		0.498	
15	12:02		0.683			50.00		0.334	
16	12:44		0.722			50.00		0.600	
17	13:56		0.790			50.00		0.361	
18	14:13		0.806			50.00		0.636	
19	14:45	1.00	0.836	1.00	3.15	50.00	0.031	0.484	0.06
20	15:26		0.875			50.00		0.491	
21	15:30		0.879			50.00		0.374	
22	15:09		0.859			50.00		0.868	
23	15:28		0.877			50.00		0.272	
24	16:28		0.934			50.00		0.235	
25	18:01		1.021			50.00		0.411	
26	20:09	1.00	0.904	1.00	1.27	50.00	0.015	0.572	0.03
27	20:13		0.907			50.00		0.896	
28	21:17	1.00	0.955	1.00	3.12	50.00	0.049	0.787	0.06
29	22:25		1.006			50.00		1.103	
30	24:07		1.082			50.00		0.505	
31	27:02	1.00	1.213	1.00	0.69	50.00	0.009	0.651	0.01
32	27:38	1.00	1.240	1.00	0.17	50.00	0.002	0.651	0.00
33	10:24	1.00	1.351	1.01	48.64	50.00	1.711	1.759	0.97
34	21:07	1.00	0.948	1.00	50.41	50.00	1.145	1.135	1.01
35	25:58	1.00	1.165	1.00	47.17	50.00	0.916	0.971	0.94

MID MASS SPECTRUM
08/19/87 14:11:00 + 4:24
SAMPLE: 14558-9
CONDS.: 5.4667 G
GC TEMP: 55 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V9R #140
CALI: 14558V9R #2

BASE M/Z: 49
RIC: 61120.

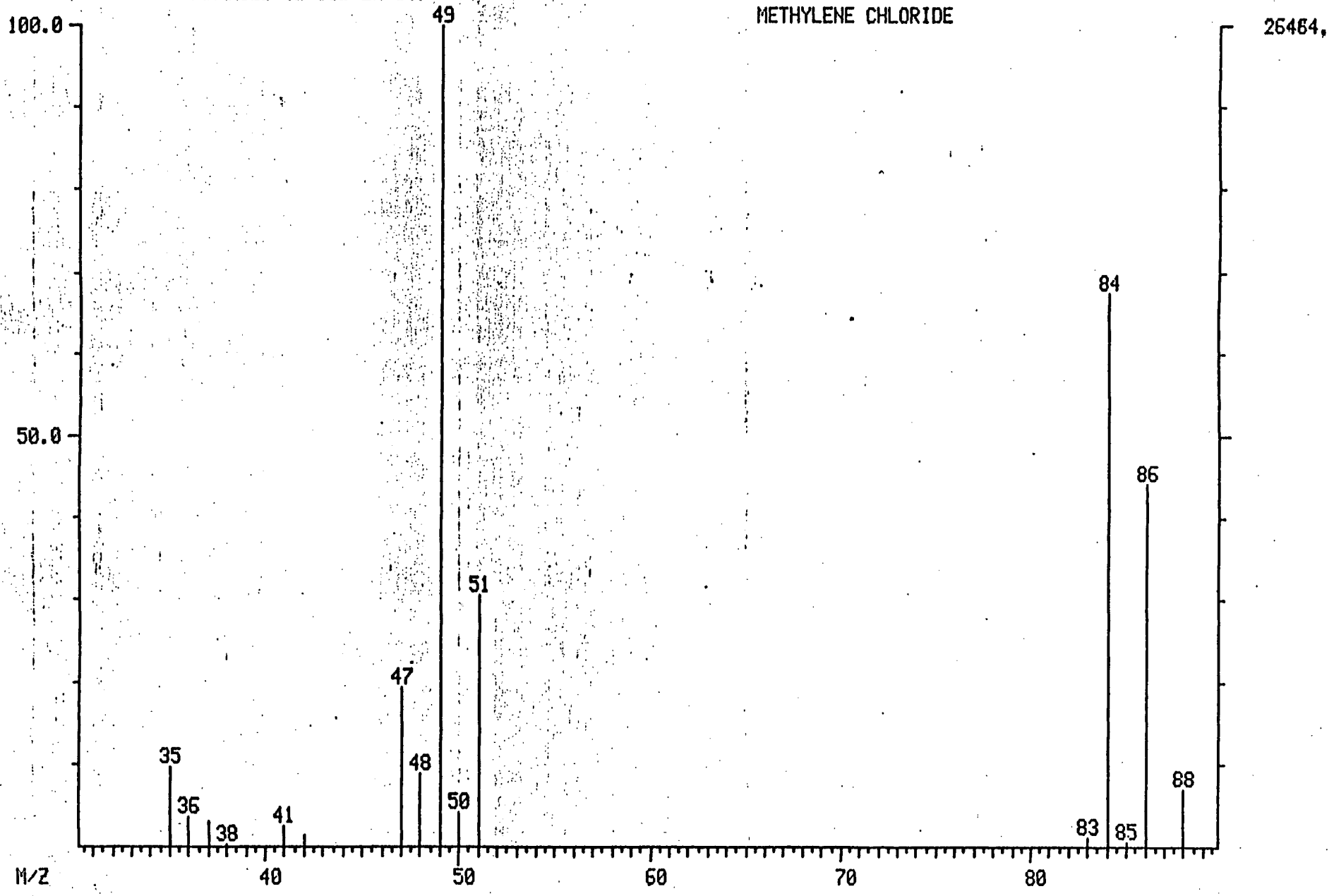


MID MASS SPECTRUM
06/04/87 2:47:00 + 4:37
SAMPLE: VOL STANDARD
CONDS.: 50UG/L STD
GC TEMP: 56 DEG. C
ENHANCED (5 15B 2N 0T)

DATA: V0604B5A #147
CALI: V0604B5A #2

BASE M/Z: 49
RIC: 80512.

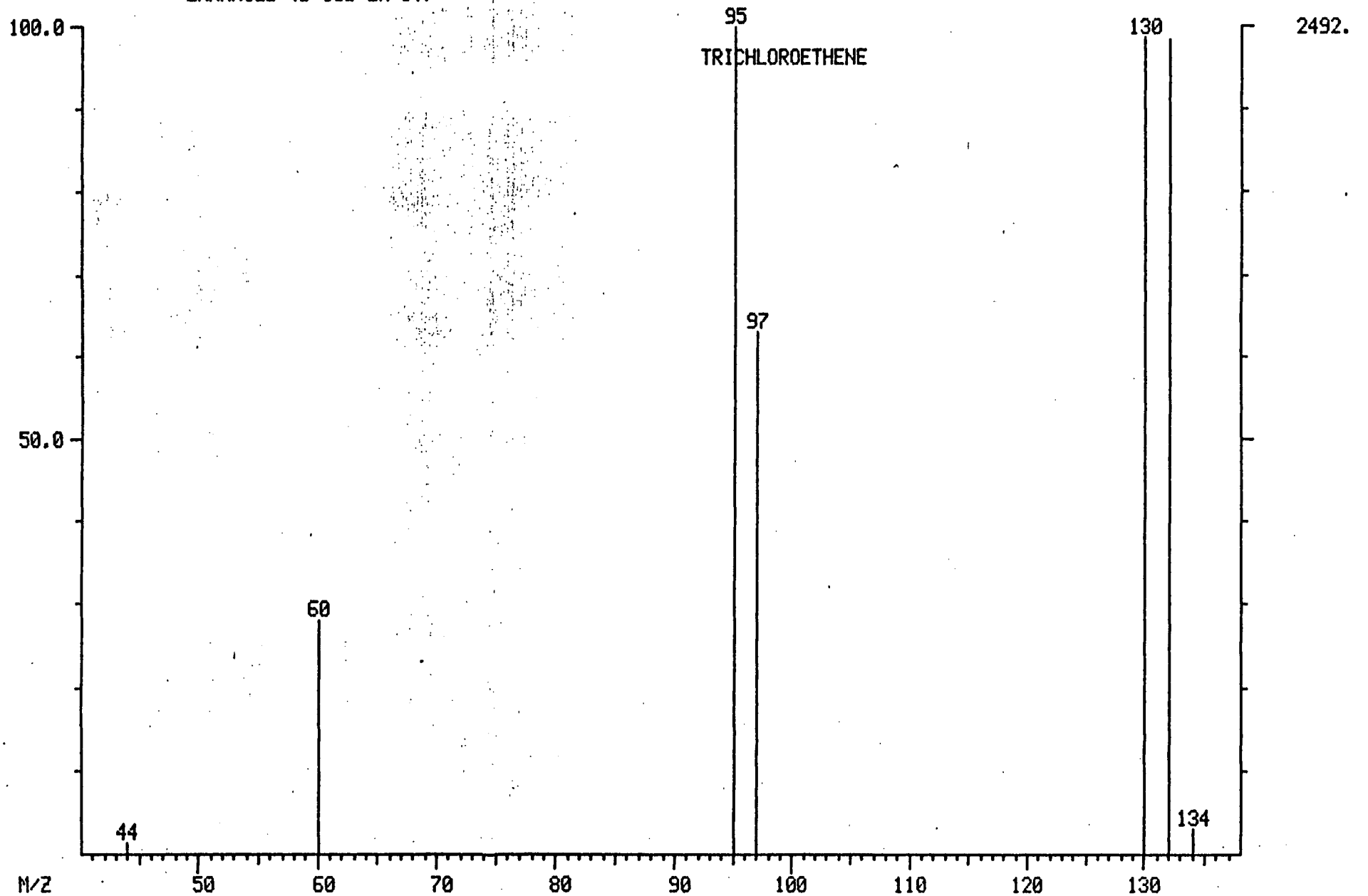
METHYLENE CHLORIDE



MID MASS SPECTRUM
08/19/87 14:11:00 + 14:45
SAMPLE: 14558-9
CONDS.: 5.4667 G
GC TEMP: 137 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V9R #469
CALI: 14558V9R #2

BASE M/Z: 95
RIC: 9792.

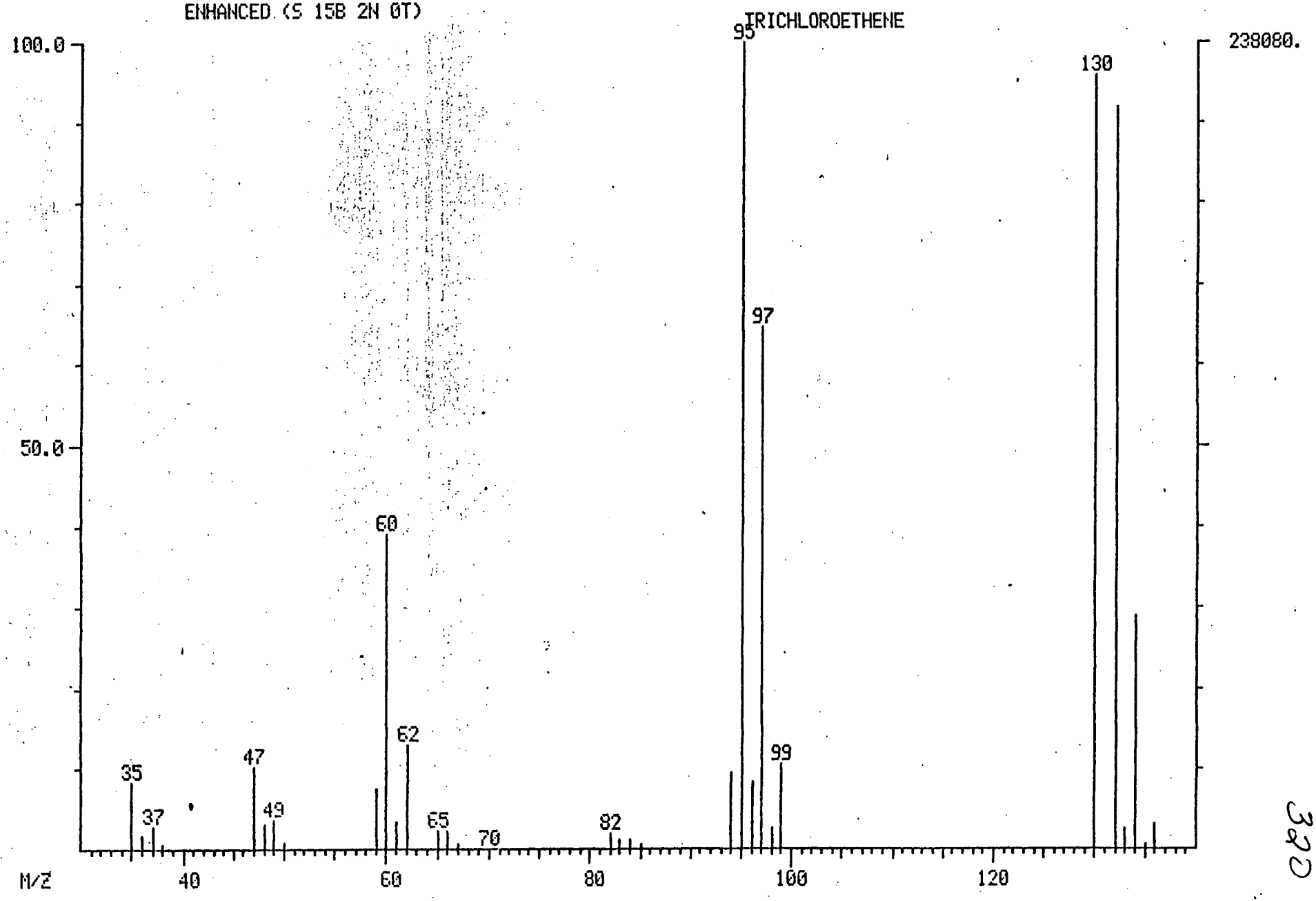


3/9

MID MASS SPECTRUM
02/21/87 11:08:00 + 14:36
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD +\1,1,1,2-TETRACHLOROETHANE
GC TEMP: 136 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #465
CALI: VB0221A30 #2

BASE M/Z: 95
RIC: 1245180.

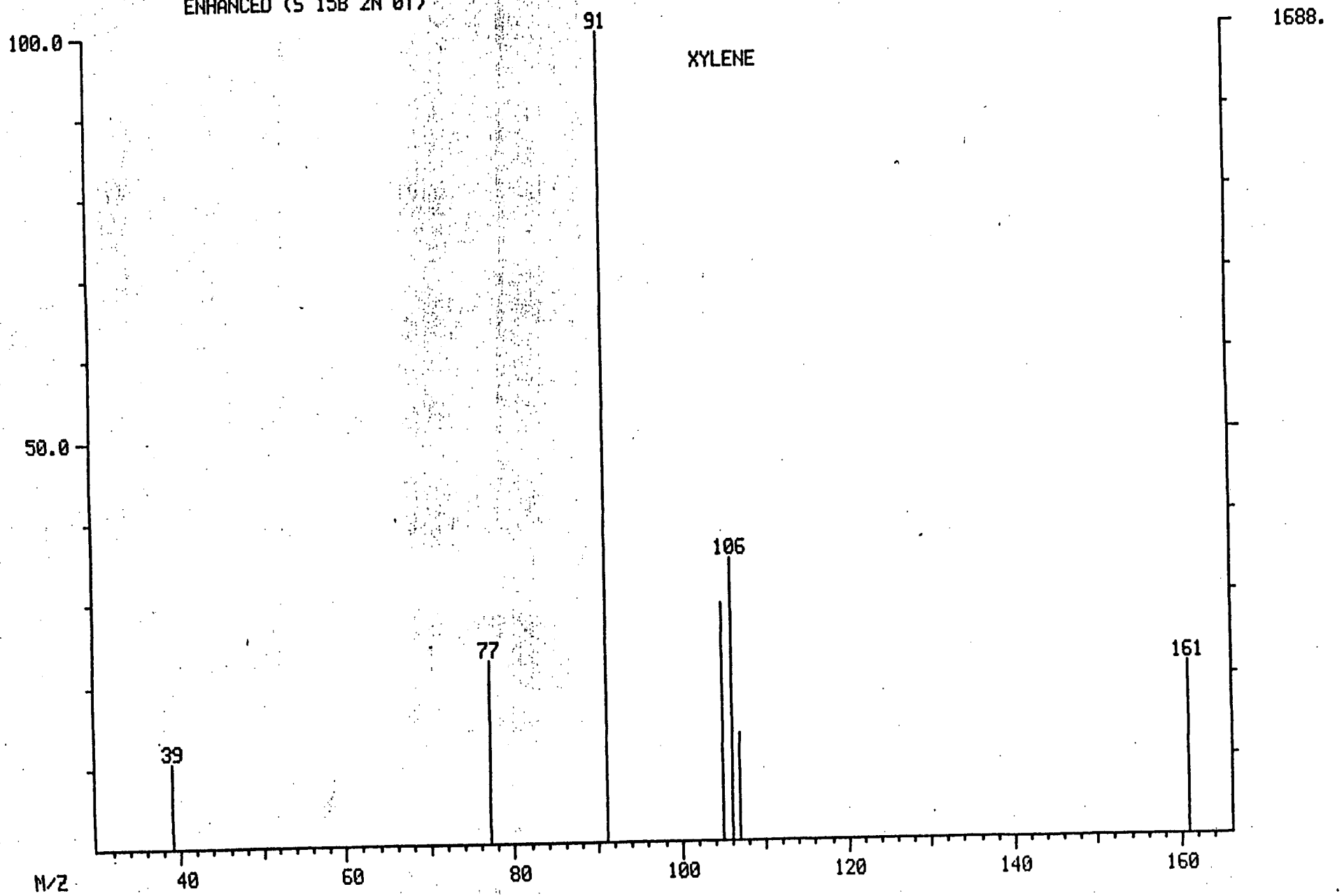


320

MID MASS SPECTRUM
08/19/87 14:11:00 + 26:56
SAMPLE: 14558-9
CONDS.: 5.4667 G
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V9R #857
CALI: 14558V9R #2

BASE M/Z: 91
RIC: 3924.



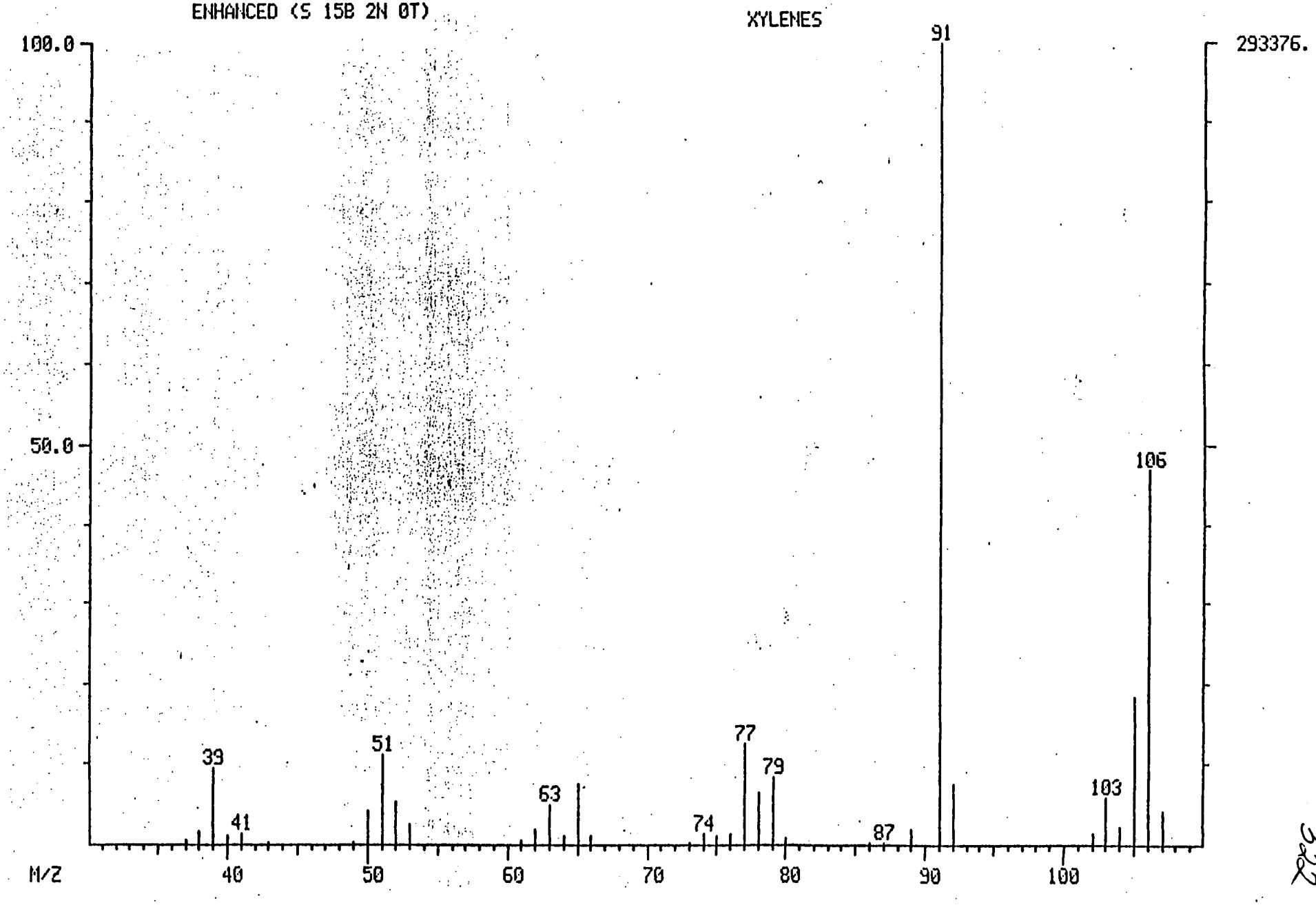
321

NID MASS SPECTRUM
02/21/87 11:08:00 + 27:26
SAMPLE: VOL STANDARD (2/21/87
CONDS.: 300UG/L STD + 1,1,1,2-TETRACHLOROETHANE
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: VB0221A30 #874
CALI: VB0221A30 #2

BASE M/Z: 91
RIC: 808960.

XYLENES

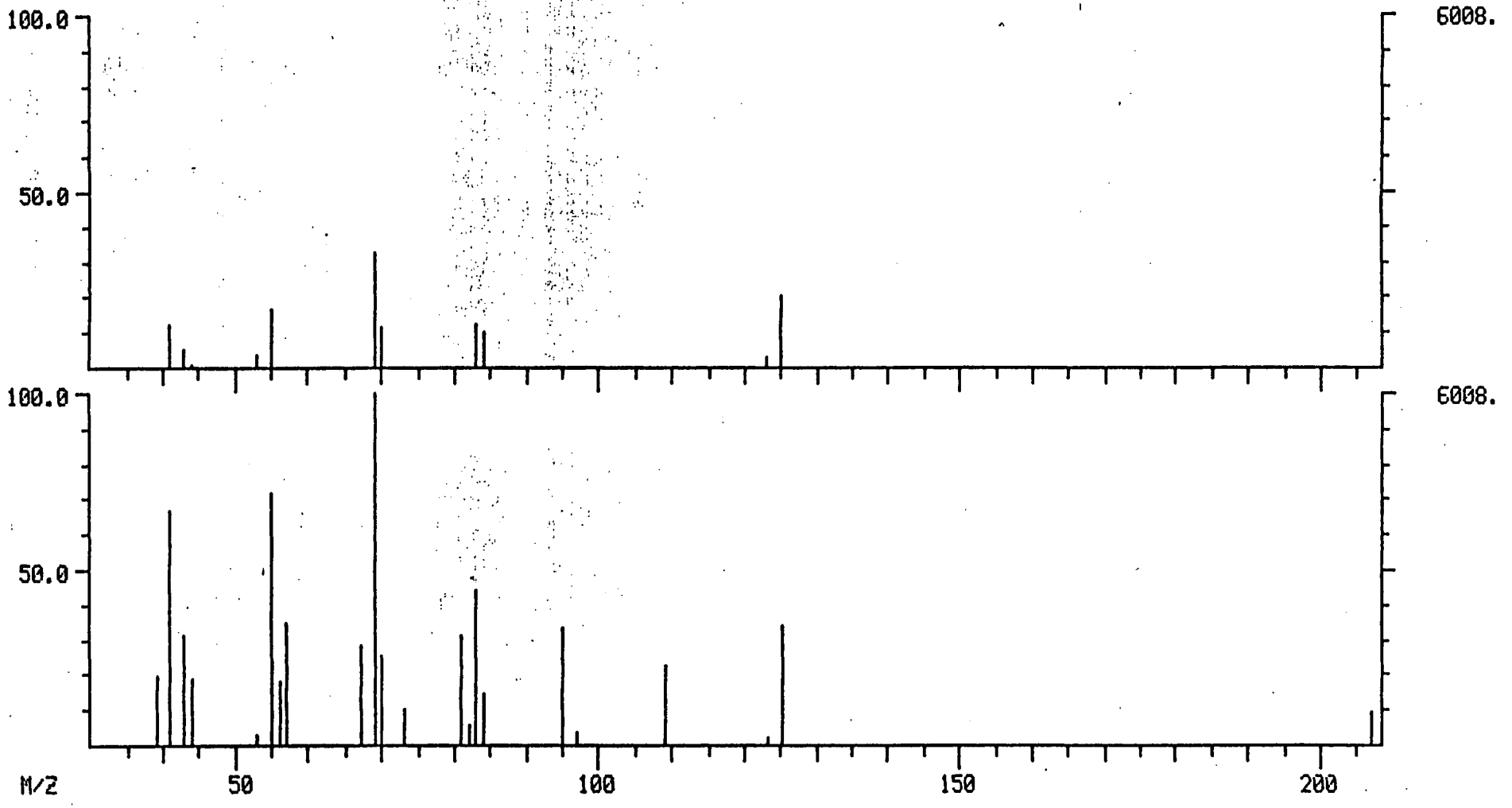


322

MID DUAL MASS SPECTRUM
08/19/87 14:11:00 + 24:35
SAMPLE: 14558-9
CONDS.: 5.4667 G
GC TEMP: 217 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V9R #782
CALI: 14558V9R #2

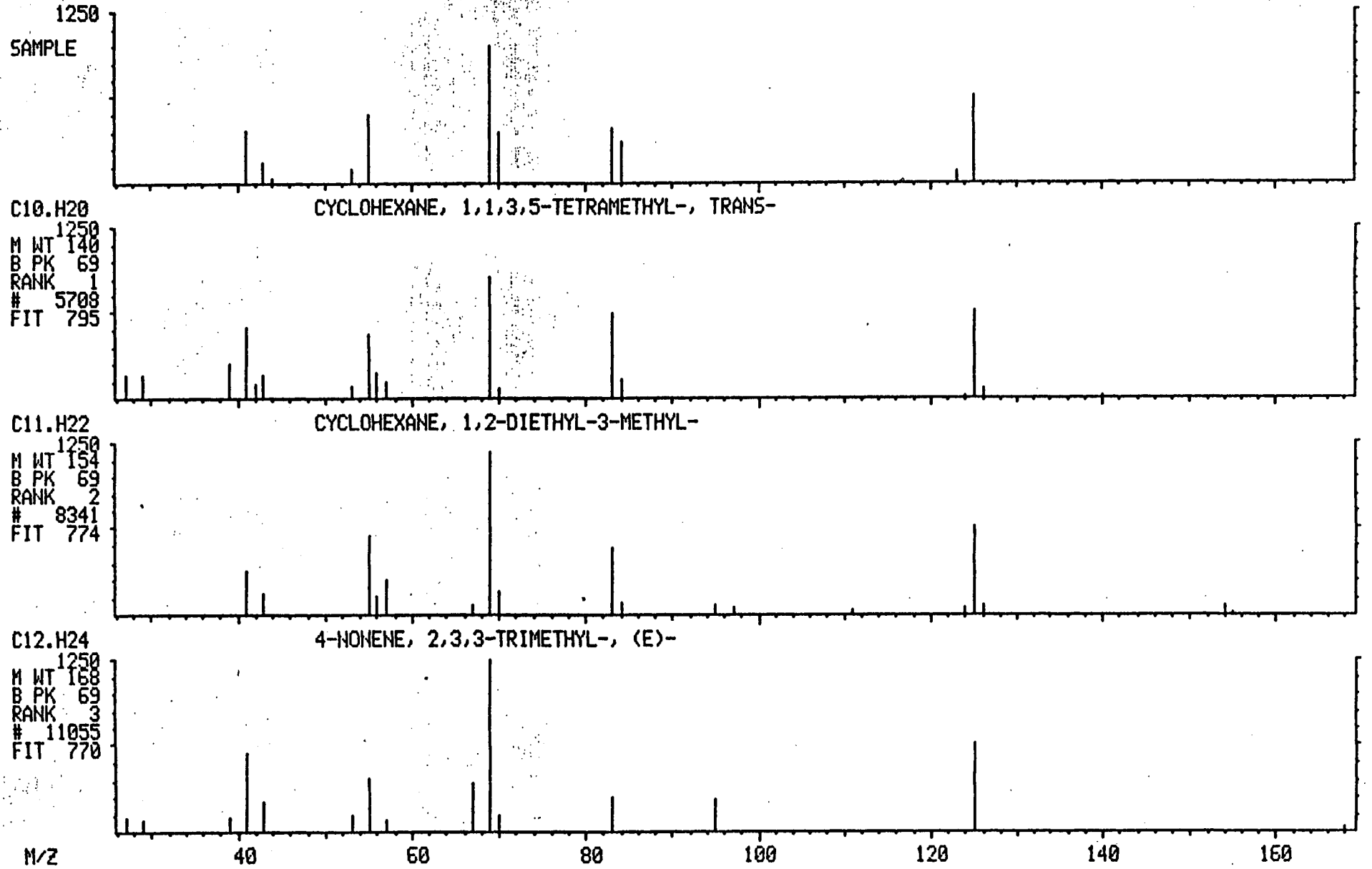
BASE M/Z: 69/ 69
RIC: 7687./ 37887.



MID LIBRARY SEARCH
08/19/87 14:11:00 + 24:35
SAMPLE: 14558-9
CONDS.: 5.4667 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V9R # 782
CALI: 14558V9R # 2

BASE M/Z: 69
RIC: 7687.



327

MID Library Search Data: 14558V9R # 782 Base m/z: 69
08/19/87 14:11:00 + 24:35 Cali: 14558V9R # 2 RIC: 7687.
Sample: 14558-9
Conds.: 5.4667 G
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	5708	CYCLOHEXANE, 1,1,3,5-TETRAMETHYL-, TRANS-
2	8341	CYCLOHEXANE, 1,2-DIETHYL-3-METHYL-
3	11055	4-NONENE, 2,3,3-TRIMETHYL-, (E)-
4	11056	4-NONENE, 2,3,3-TRIMETHYL-, (Z)-
5	8342	CYCLOHEXANE, 2,4-DIETHYL-1-METHYL-

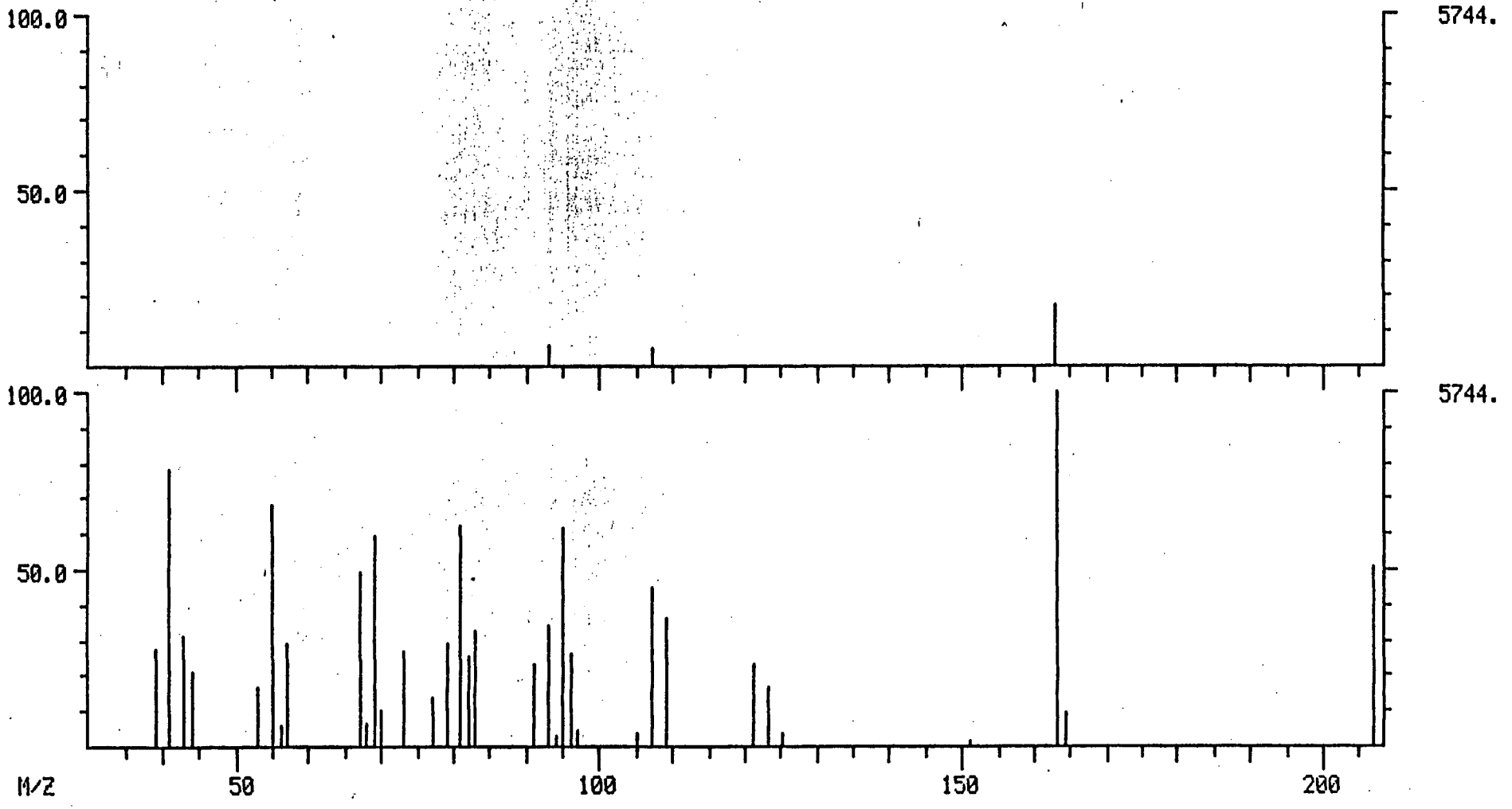
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C10. H20	140	69	763	795	909
2	C11. H22	154	69	728	774	910
3	C12. H24	168	69	672	770	844
4	C12. H24	168	69	653	763	825
5	C11. H22	154	69	711	755	890

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	50876-31-8
2	—	—	—	—	61141-80-8
3	—	—	—	—	63830-67-1
4	—	—	—	—	63830-68-2
5	—	—	—	—	61142-70-9

MID DUAL MASS SPECTRUM
08/19/87 14:11:00 + 27:57
SAMPLE: 14558-9
CONDS.: 5.4667 G
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V9R #889
CALI: 14558V9R #2

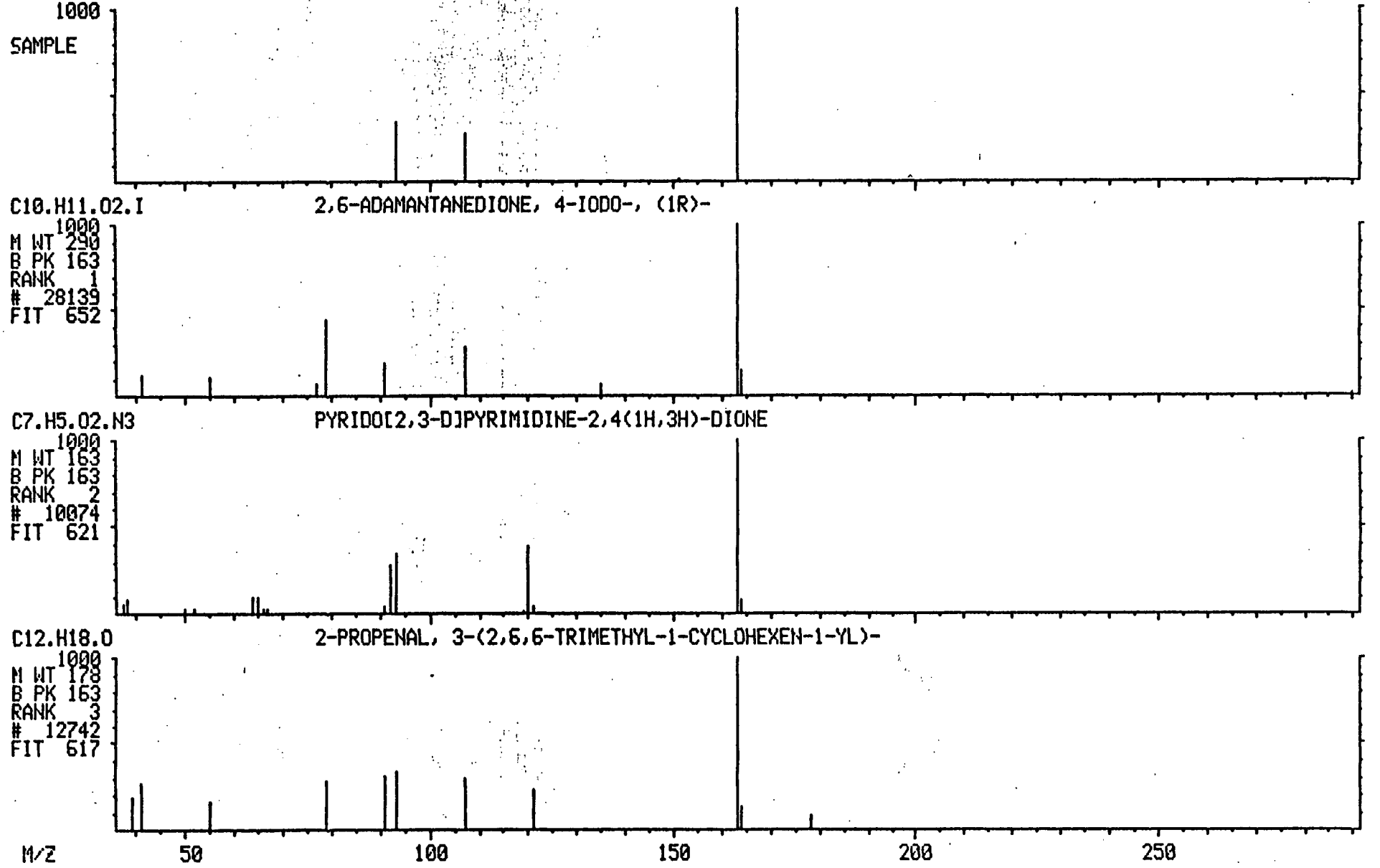
BASE M/Z: 163/ 163
RIC: 1631./ 59455.



MID LIBRARY SEARCH
08/19/87 14:11:00 + 27:57
SAMPLE: 14558-9
CONDS.: 5.4667 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V9R # 889
CALI: 14558V9R # 2

BASE M/Z: 163
RIC: 1631.



MID Library Search Data: 14558V9R # 889 Base m/z: 163
08/19/87 14:11:00 + 27:57 Cali: 14558V9R # 2 RIC: 1631.
Sample: 14558-9
Conds.: 5.4667 G
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	28139	2,6-ADAMANTANEDIONE, 4-IODO-, (1R)-
2	10074	PYRIDO[2,3-D]PYRIMIDINE-2,4(1H,3H)-DIONE
3	12742	2-PROPENAL, 3-(2,6,6-TRIMETHYL-1-CYCLOHEXEN-1-YL)-
4	25829	ETHANONE, 2-(2-METHYLPROPOXY)-1,2-DIPHENYL-
5	7446	PHENOL, 4-BUTYL-

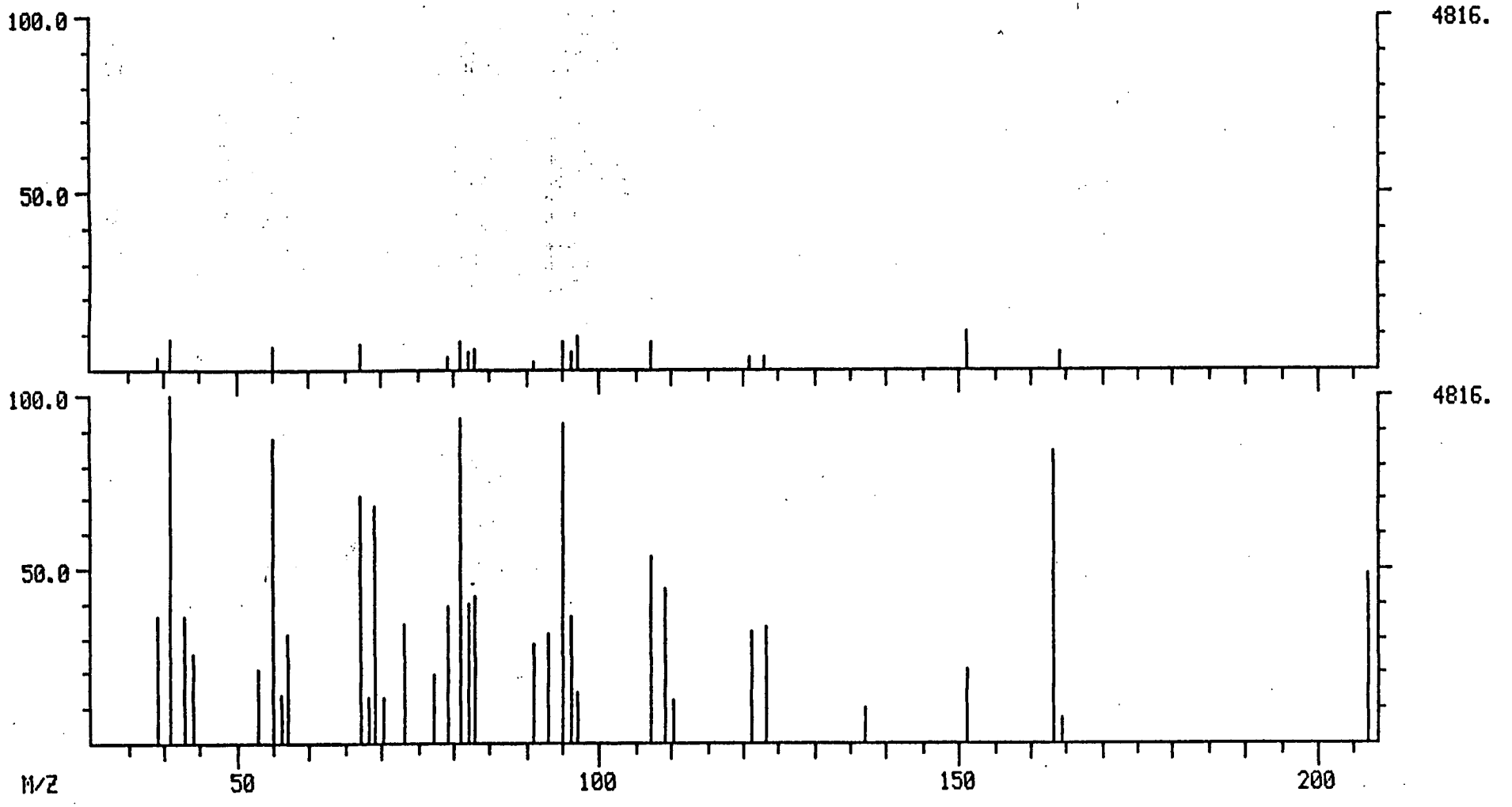
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H11.O2.I	290	163	556	652	852
2	C7.H5.O2.N3	163	163	535	621	861
3	C12.H18.O	178	163	613	617	994
4	C18.H20.O2	268	163	463	543	852
5	C10.H14.O	150	107	74	535	139

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	19305-95-4
2	___	___	___	___	21038-66-4
3	___	___	___	___	4951-40-0
4	___	___	___	___	22499-12-3
5	___	___	___	___	1638-22-8

MID DUAL MASS SPECTRUM
08/19/87 14:11:00 + 28:23
SAMPLE: 14558-9
CONDS.: 5.4667 G
GC TEMP: 218 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V9R #903
CALI: 14558V9R #2

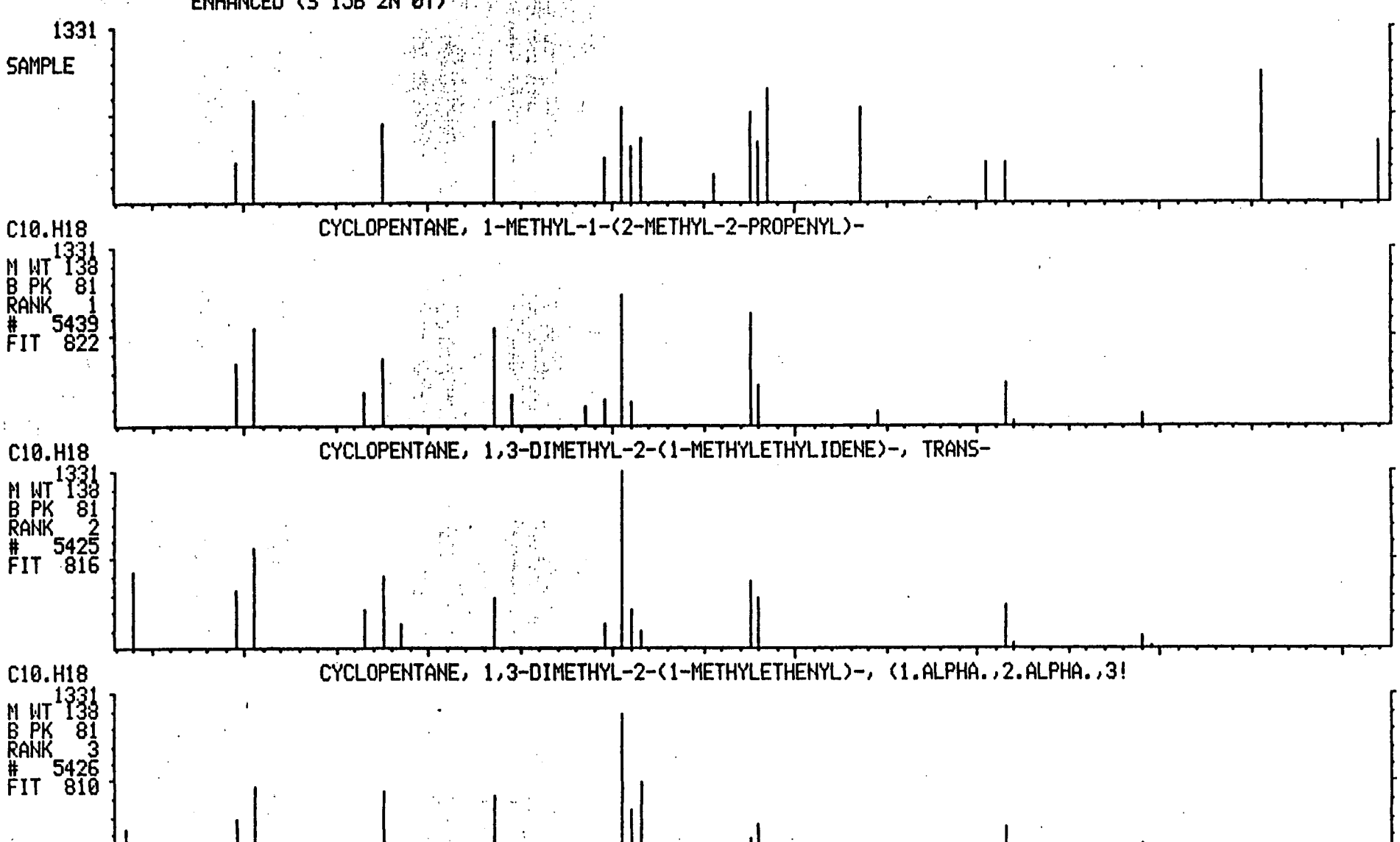
BASE M/Z: 151/ 41
RIC: 5015./ 64383.



MID LIBRARY SEARCH
08/19/87 14:11:00 + 28:23
SAMPLE: 14558-9
CONDS.: 5.4667 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V9R # 903
CALI: 14558V9R # 2

BASE M/Z: 151
RIC: 5015.



MID Library Search Data: 14558V9R # 903 Base m/z: 151
08/19/87 14:11:00 + 28:23 Cali: 14558V9R # 2 RIC: 5015.
Sample: 14558-9
Conds.: 5.4667 G
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	5439	CYCLOPENTANE, 1-METHYL-1-(2-METHYL-2-PROPENYL)-
2	5425	CYCLOPENTANE, 1,3-DIMETHYL-2-(1-METHYLETHYLIDENE)-, TRANS-
3	5426	CYCLOPENTANE, 1,3-DIMETHYL-2-(1-METHYLETHENYL)-, (1.ALPHA.,2.ALPHA.*
4	5956	4-NONYN-1-OL
5	3440	4,5-NONADIENE

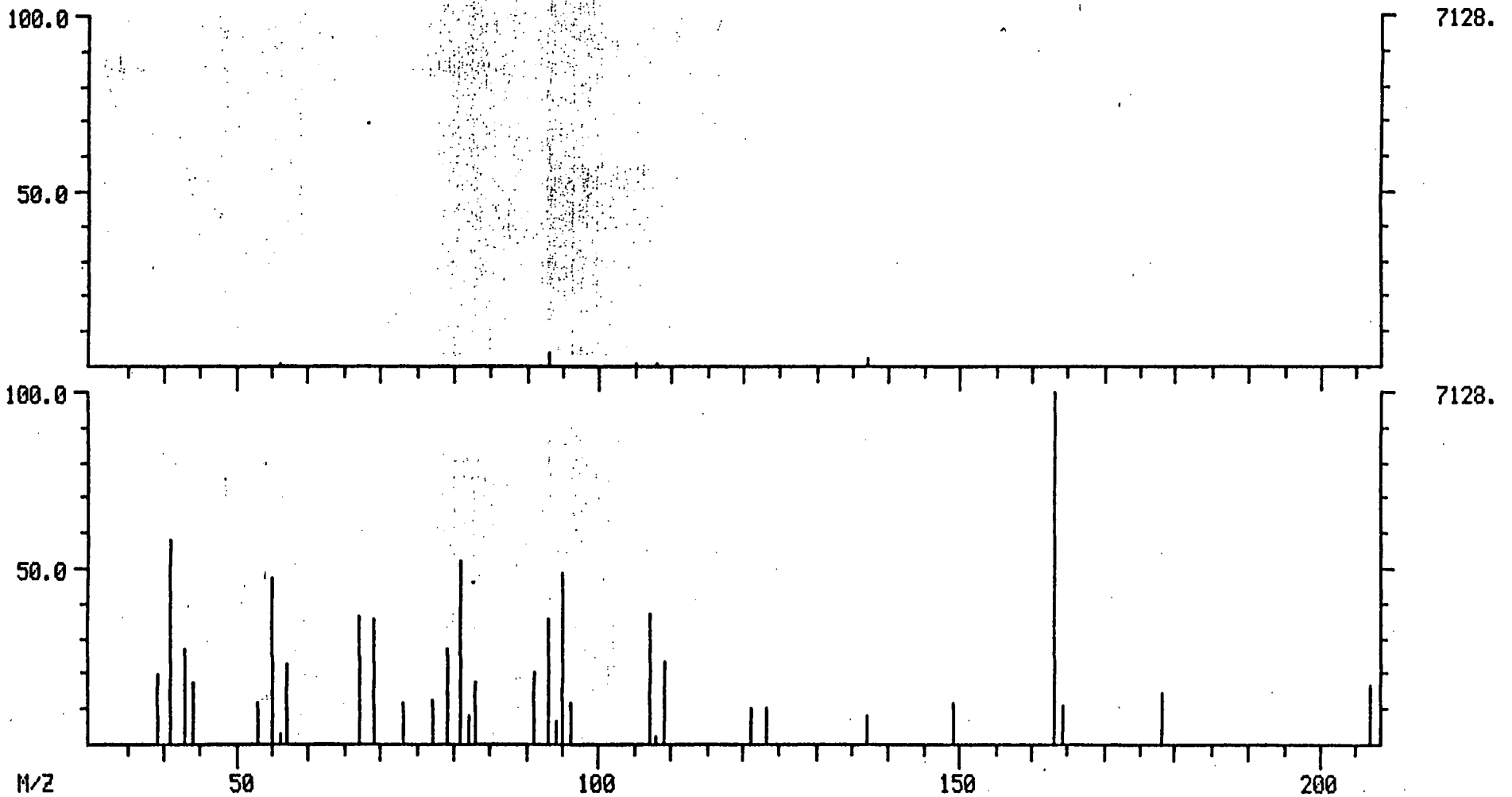
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H18	138	81	365	822	431
2	C10.H18	138	81	400	816	463
3	C10.H18	138	81	397	810	462
4	C9.H16.O	140	41	312	809	345
5	C9.H16	124	67	340	805	403

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	———	———	———	———	74764-47-9
2	———	———	———	———	61142-30-1
3	———	———	———	———	61142-31-2
4	———	———	———	———	49826-98-4
5	———	———	———	———	821-74-9

MID DUAL MASS SPECTRUM
08/19/87 14:11:00 + 30:43
SAMPLE: 14558-9
CONDS.: 5.4667 G
GC TEMP: 219 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V9R #977
CALI: 14558V9R #2

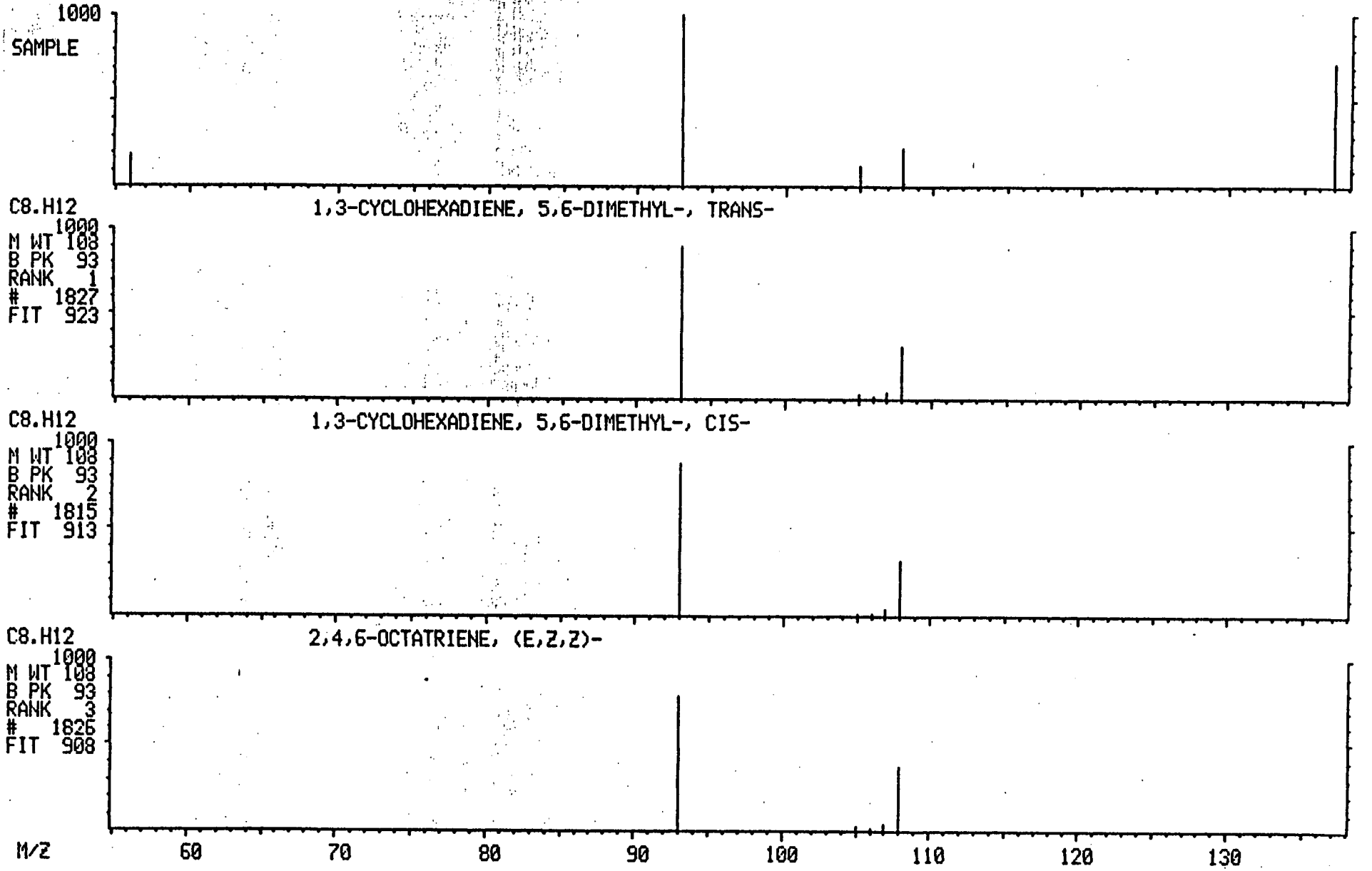
BASE M/Z: 93/ 163
RIC: 551./ 55039.



MID LIBRARY SEARCH
08/19/87 14:11:00 + 30:43
SAMPLE: 14558-9
CONDS.: 5.4667 G
ENHANCED (S 15B 2N 0T)

DATA: 14558V9R # 977
CALI: 14558V9R # 2

BASE M/Z: 93
RIC: 551.



MID Library Search
08/19/87 14:11:00 + 30:43
Sample: 14558-9
Conds.: 5.4667 G
Enhanced (S 15B 2N OT)

Data: 14558V9R # 977
Cali: 14558V9R # 2

Base m/z: 93
RIC: 551.

Rank	In.	Name
1	1827	1,3-CYCLOHEXADIENE, 5,6-DIMETHYL-, TRANS-
2	1815	1,3-CYCLOHEXADIENE, 5,6-DIMETHYL-, CIS-
3	1826	2,4,6-OCTATRIENE, (E,Z,Z)-
4	1840	2,4,6-OCTATRIENE, (E,E,Z)-
5	1835	2,4,6-OCTATRIENE, (Z,Z,Z)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H12	108	93	499	923	521
2	C8.H12	108	93	493	913	518
3	C8.H12	108	93	491	908	513
4	C8.H12	108	93	484	895	519
5	C8.H12	108	93	479	886	492

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	2417-81-4
2	—	—	—	—	765-86-6
3	—	—	—	—	2417-80-3
4	—	—	—	—	19703-43-6
5	—	—	—	—	14947-20-7

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0811754

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14358 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 14358-10

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 14358V10

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. _____ Date Analyzed: 08/18/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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	67	
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
110-75-8	2-Chloroethylvinylether	10	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	10	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
----------	Total Xylenes	5	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. 336

08:1754

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 14558-10

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 14558V10

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. _____ Date Analyzed: 08/18/87

Column (pack/cap) PACKED Dilution Factor: 1.00

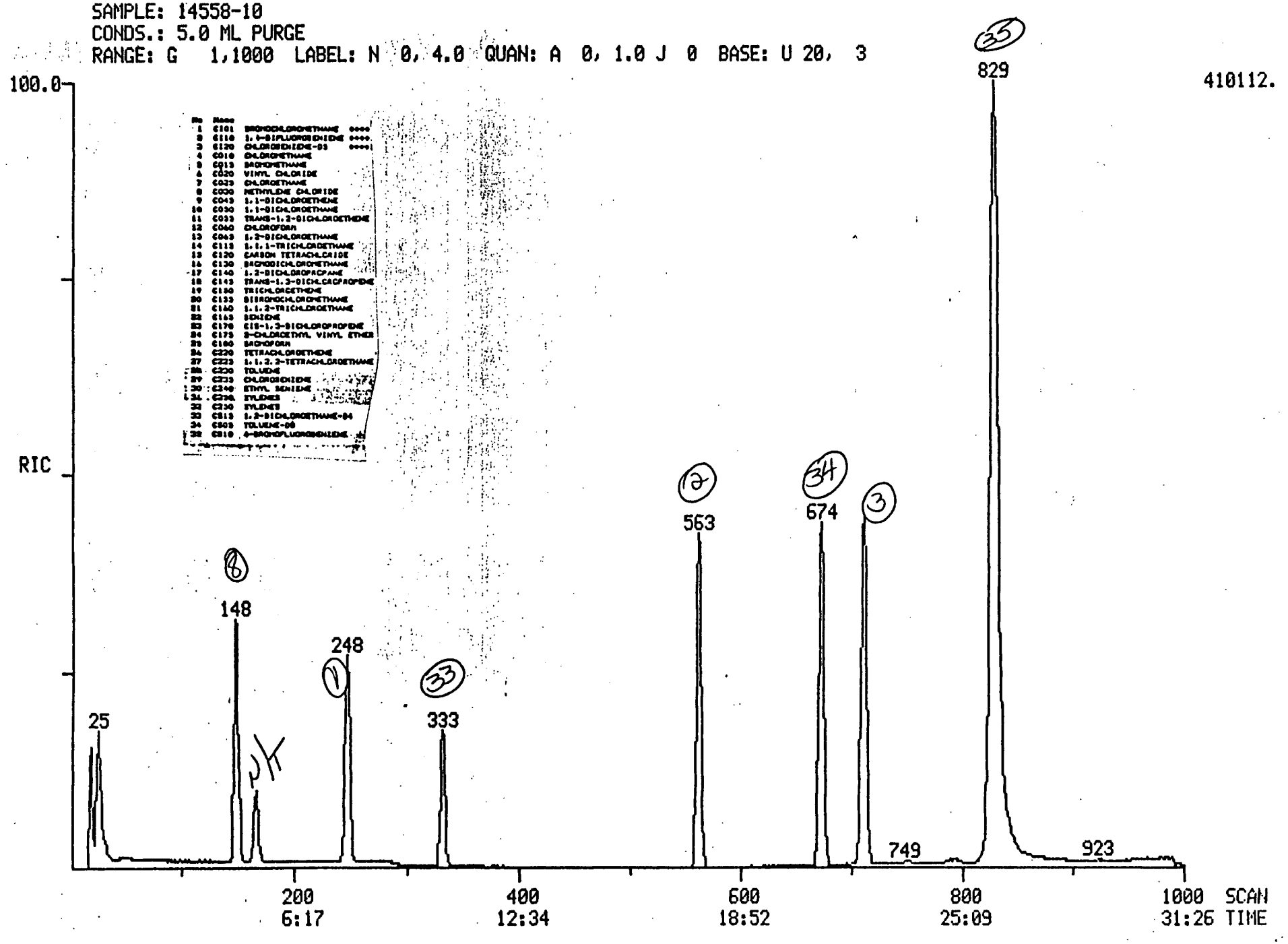
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

MIDRIC
08/18/87 16:41:00
SAMPLE: 14558-10
CONDS.: 5.0 ML PURGE
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V10 #1
CALI: 14535V1 #2

SCANS 1 TO 1000



Quantitation Report File: 14558V10

Data: 14558V10.TI
08/18/87 16:41:00
Sample: 14558-10
Conds.: 5.0 ML PURGE
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	128	247	7:46	1	1.000	A BB	82935.	50.000	UG/L	13.62	
2	114	563	17:42	2	1.000	A BB	428806.	50.000	UG/L	13.62	
3	117	711	22:21	3	1.000	A BB	334908.	50.000	UG/L	13.62	
4	NOT FOUND										
5	NOT FOUND										
6	NOT FOUND										
7	NOT FOUND										
8	84	148	4:39	1	0.599	A BB	131799.	66.789	UG/L	18.19	Yes PA
9	NOT FOUND										
10	NOT FOUND										
11	NOT FOUND										
12	NOT FOUND										
13	NOT FOUND										
14	NOT FOUND										
15	NOT FOUND										
16	NOT FOUND										
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	NOT FOUND										
28	NOT FOUND										
29	NOT FOUND										
30	NOT FOUND										
31	NOT FOUND										
32	NOT FOUND										
33	65	333	10:28	1	1.348	A BB	134746.	46.459	UG/L	12.65	Yes PA
34	98	674	21:11	3	0.948	A BB	380198.	50.564	UG/L	13.77	Yes PA
35	95	829	26:04	3	1.166	A BB	332144.	53.378	UG/L	14.54	Yes PA

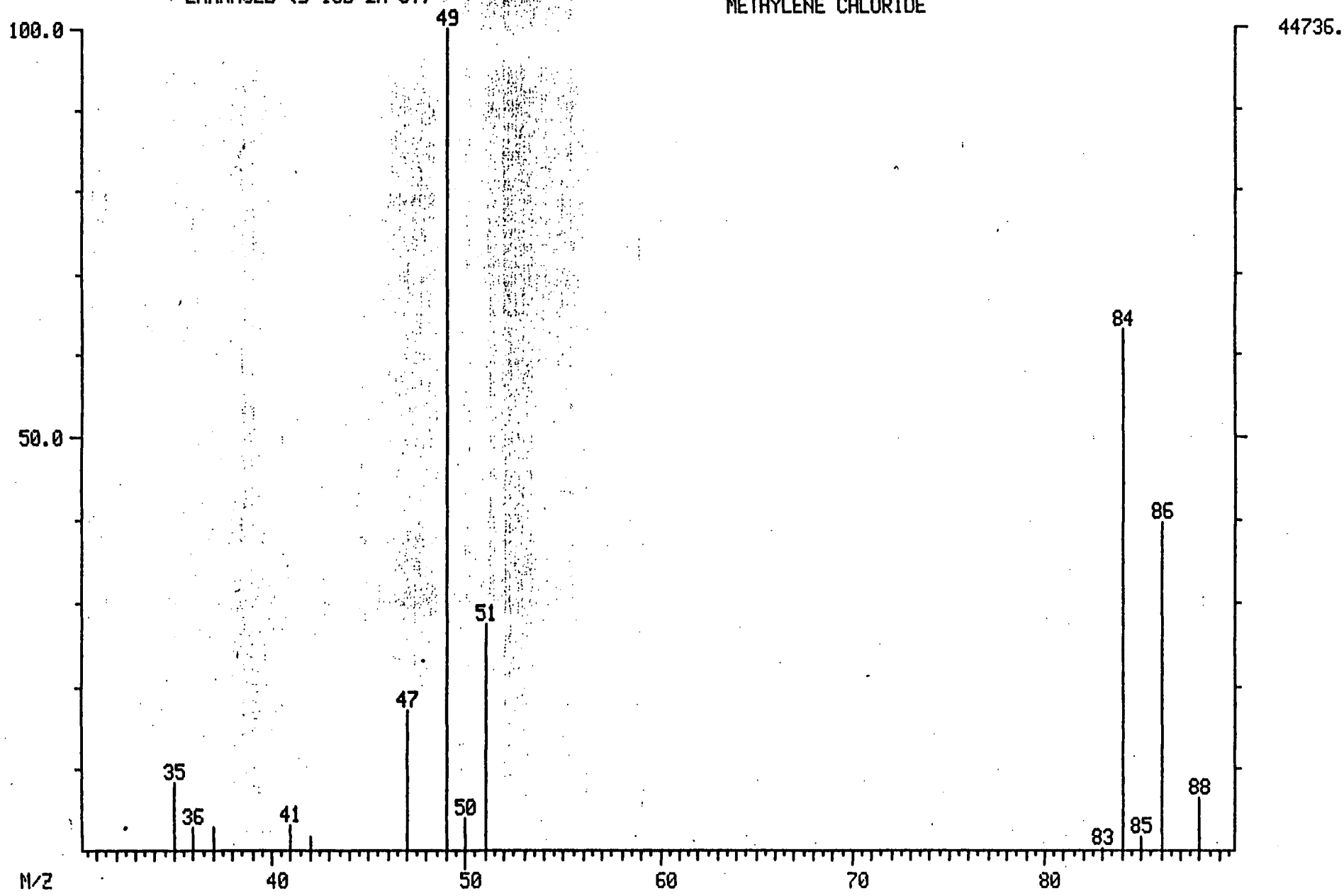
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:42	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:19	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19		0.171			50.00		0.658	
5	1:53		0.245			50.00		1.406	
6	2:20		0.302			50.00		1.312	
7	2:52		0.371			50.00		0.813	
8	4:33	1.02	0.592	1.01	66.79	50.00	1.589	1.190	1.34
9	7:12		0.935			50.00		1.142	
10	8:27		1.098			50.00		2.324	
11	9:13		1.196			50.00		1.243	
12	9:52		1.282			50.00		3.003	
13	10:34		1.371			50.00		2.029	
14	11:44		0.663			50.00		0.449	
15	12:06		0.684			50.00		0.289	
16	12:46		0.721			50.00		0.513	
17	13:57		0.789			50.00		0.319	
18	14:16		0.806			50.00		0.564	
19	14:48		0.837			50.00		0.434	
20	15:30		0.876			50.00		0.385	
21	15:34		0.879			50.00		0.325	
22	15:13		0.860			50.00		0.776	
23	15:32		0.877			50.00		0.244	
24	16:32		0.934			50.00		0.202	
25	18:03		1.020			50.00		0.288	
26	20:13		0.906			50.00		0.505	
27	20:15		0.907			50.00		0.756	
28	21:19		0.955			50.00		0.710	
29	22:27		1.006			50.00		0.974	
30	24:07		1.080			50.00		0.436	
31	27:36		1.237			150.00		0.626	
32	27:40		1.238			50.00		0.574	
33	10:26	1.00	1.355	0.99	46.46	50.00	1.625	1.749	0.93
34	21:09	1.00	0.948	1.00	50.56	50.00	1.135	1.123	1.01
35	25:58	1.00	1.163	1.00	53.38	50.00	0.992	0.929	1.07

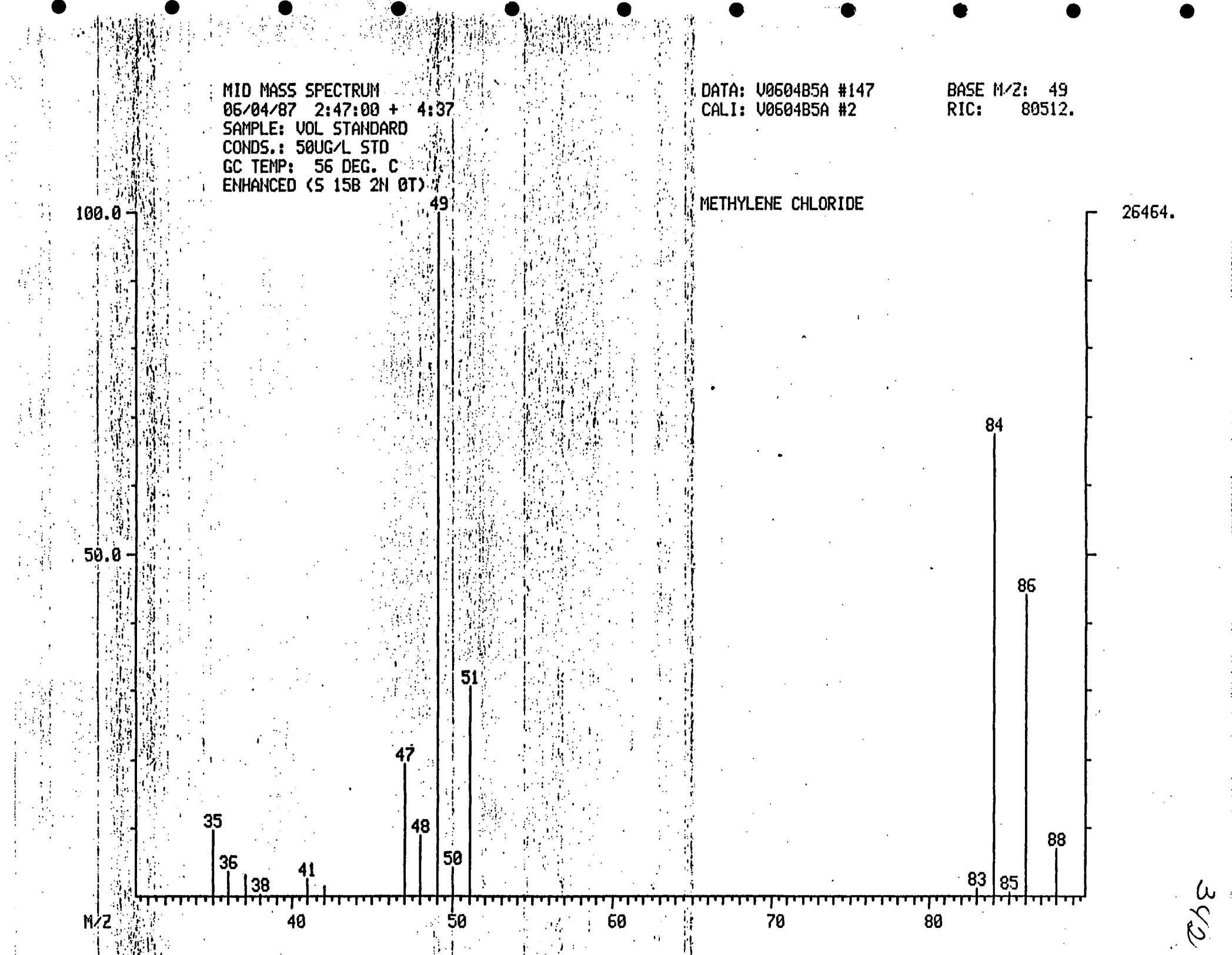
MID MASS SPECTRUM
08/18/87 16:41:00 + 4:39
SAMPLE: 14558-10
CONDS.: 5.0 ML PURGE
GC TEMP: 57 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V10 #148
CALI: 14558V10 #2

BASE M/Z: 49
RIC: 124416.

METHYLENE CHLORIDE

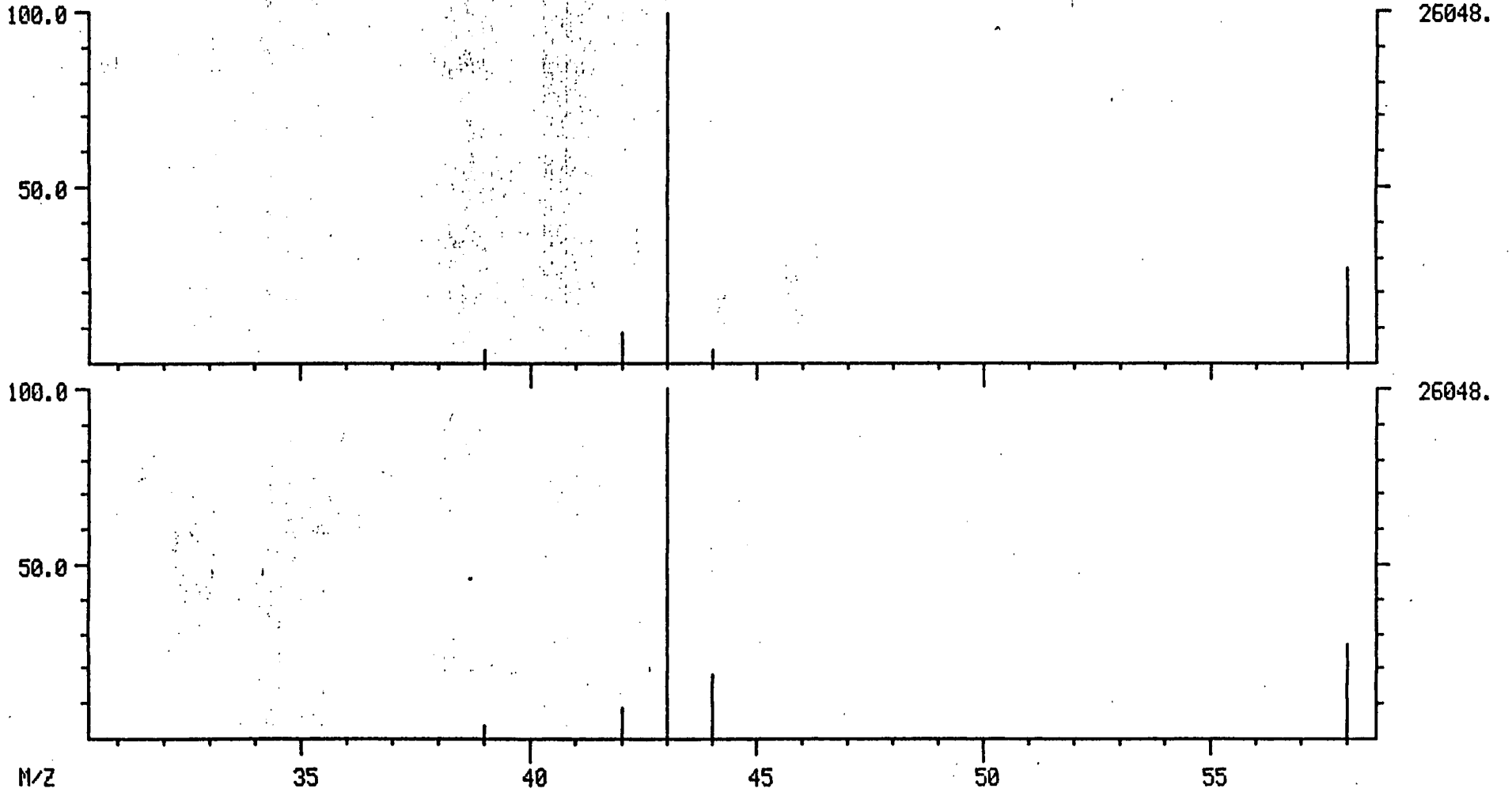



MID MASS SPECTRUM
06/04/87 2:47:00 + 4:37
SAMPLE: VOL STANDARD
CONDS.: 50UG/L STD
GC TEMP: 56 DEG. C
ENHANCED (S 15B 2N 0T)
DATA: V0604B5A #147
CALI: V0604B5A #2
BASE M/Z: 49
RIC: 80512.
METHYLENE CHLORIDE
26464.
100.0
50.0
M/Z
40
50
60
70
80
35
36
38
41
47
48
49
50
51
83
84
85
86
88

MID DUAL MASS SPECTRUM
08/18/87 16:41:00 + 5:13
SAMPLE: 14558-10
CONDS.: 5.0 ML PURGE
GC TEMP: 61 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V10 #166
CALI: 14558V10 #2

BASE M/Z: 43/ 43
RIC: 36799./ 40703.

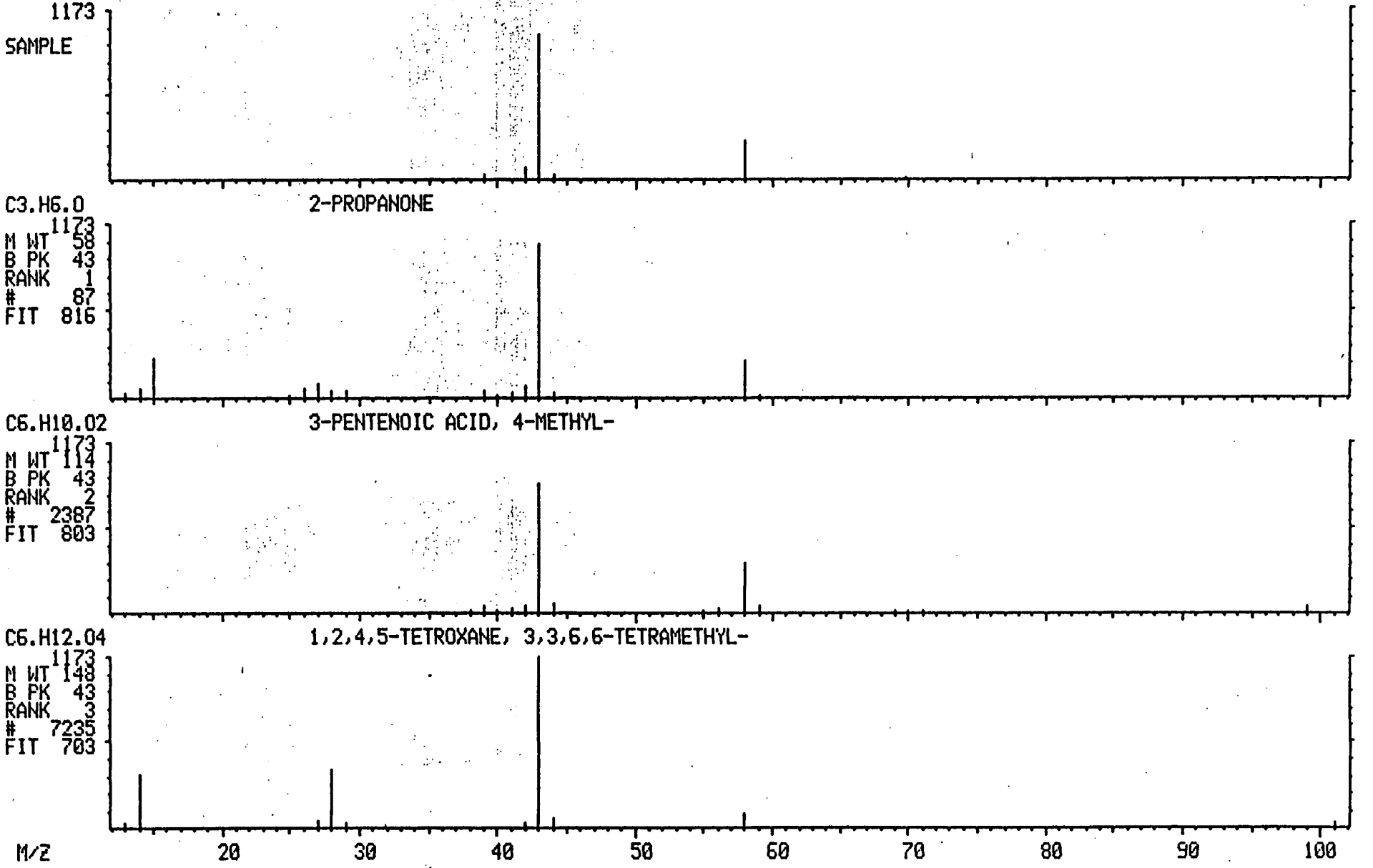


3/3

MID LIBRARY SEARCH
08/18/87 16:41:00 + 5:13
SAMPLE: 14558-10
CONDS.: 5.0 ML PURGE
ENHANCED (S 15B 2N 0T)

DATA: 14558V10 # 166
CALI: 14558V10 # 2

BASE M/Z: 43
RIC: 36799.



5 of 6

MID Library Search Data: 14558V10 # 166 Base m/z: 43
08/18/87 16:41:00 + 5:13 Cali: 14558V10 # 2 RIC: 36799.
Sample: 14558-10
Conds.: 5.0 ML PURGE
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	87	2-PROPANONE
2	2387	3-PENTENOIC ACID, 4-METHYL-
3	7235	1,2,4,5-TETROXANE, 3,3,6,6-TETRAMETHYL-
4	1261	1-PROPEN-2-OL, ACETATE
5	1380	2,3-BUTANEDIONE, MONOOXIME

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C3.H6.O	58	43	816	816	998
2	C6.H10.O2	114	43	803	803	989
3	C6.H12.O4	148	43	689	703	929
4	C5.H8.O2	100	43	695	695	972
5	C4.H7.O2.N	101	43	648	648	898

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	67-64-1
2	———	———	———	———	504-85-8
3	———	———	———	———	1073-91-2
4	———	———	———	———	108-22-5
5	———	———	———	———	57-71-6

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0811755

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: 14558-11

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 14558V11

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. Date Analyzed: 08/18/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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	83	
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
110-75-8	2-Chloroethylvinylether	10	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	10	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
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 0811TE5

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 14558-11

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: 14558V11

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. ____ Date Analyzed: 08/18/87

Column (pack/cap) PACKED Dilution Factor: 1.00

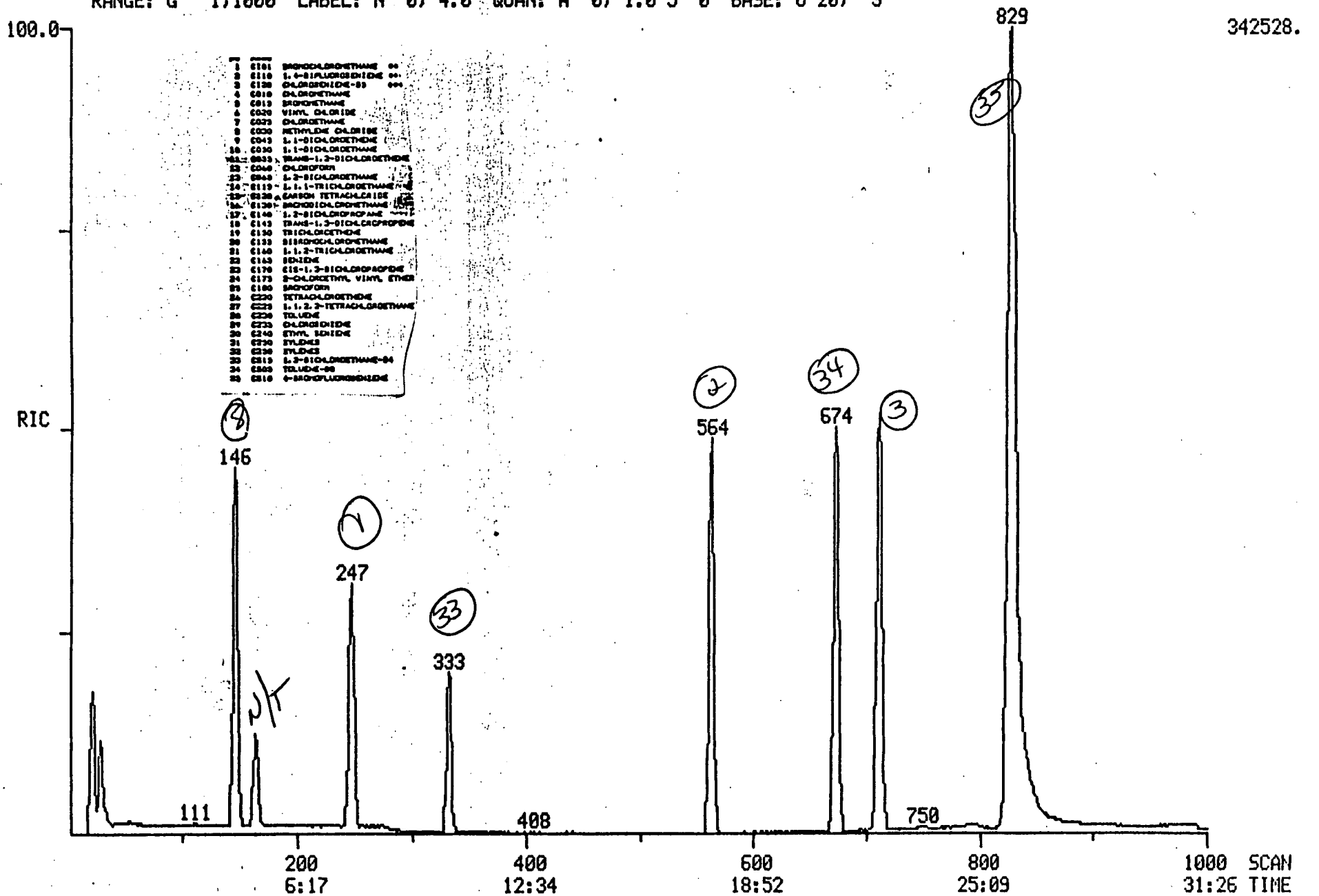
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

MIDRIC
08/18/87 17:22:00
SAMPLE: 14558-11
CONDS.: 5.0 ML PURGE
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V11 #1
CALI: 14558V10 #2

SCANS 1 TO 1000



Quantitation Report File: 14558V11

Data: 14558V11.TI
08/18/87 17:22:00
Sample: 14558-11
Conds.: 5.0 ML PURGE
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	128	247	7:46	1	1.000	A BB	78447.	50.000 UG/L	12.99	
2	114	564	17:44	2	1.000	A BB	411220.	50.000 UG/L	12.99	
3	117	712	22:23	3	1.000	A BB	317880.	50.000 UG/L	12.99	
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	84	146	4:35	1	0.591	A BB	155678.	83.403 UG/L	21.67	Yes PA
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
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	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	65	333	10:28	1	1.348	A BB	129108.	47.062 UG/L	12.23	Yes PA
34	98	674	21:11	3	0.947	A BB	362368.	50.774 UG/L	13.19	Yes PA
35	95	826	25:58	3	1.160	A BB	316524.	53.592 UG/L	13.93	Yes PA

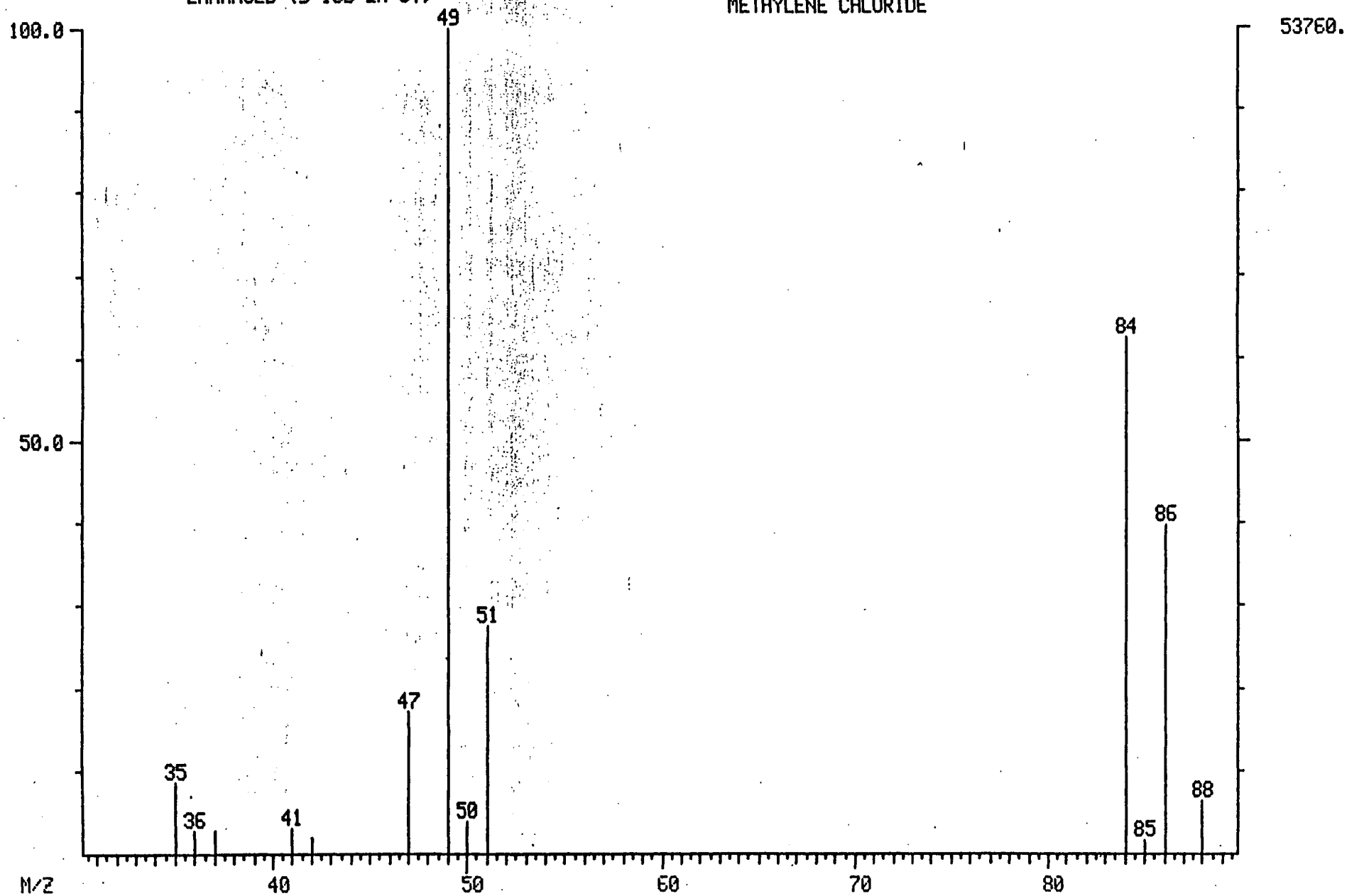
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:42	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:19	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19		0.171			50.00		0.658	
5	1:53		0.245			50.00		1.406	
6	2:20		0.302			50.00		1.312	
7	2:52		0.371			50.00		0.813	
8	4:33	1.01	0.592	1.00	83.40	50.00	1.984	1.190	1.67
9	7:12		0.935			50.00		1.142	
10	8:27		1.098			50.00		2.324	
11	9:13		1.196			50.00		1.243	
12	9:52		1.282			50.00		3.003	
13	10:34		1.371			50.00		2.029	
14	11:44		0.663			50.00		0.449	
15	12:06		0.684			50.00		0.289	
16	12:46		0.721			50.00		0.513	
17	13:57		0.789			50.00		0.319	
18	14:16		0.806			50.00		0.564	
19	14:48		0.837			50.00		0.434	
20	15:30		0.876			50.00		0.385	
21	15:34		0.879			50.00		0.325	
22	15:13		0.860			50.00		0.776	
23	15:32		0.877			50.00		0.244	
24	16:32		0.934			50.00		0.202	
25	18:03		1.020			50.00		0.288	
26	20:13		0.906			50.00		0.505	
27	20:15		0.907			50.00		0.756	
28	21:19		0.955			50.00		0.710	
29	22:27		1.006			50.00		0.974	
30	24:07		1.080			50.00		0.436	
31	27:36		1.237			150.00		0.626	
32	27:40		1.238			50.00		0.574	
33	10:26	1.00	1.355	0.99	47.06	50.00	1.646	1.749	0.94
34	21:09	1.00	0.948	1.00	50.77	50.00	1.140	1.123	1.02
35	25:58	1.00	1.163	1.00	53.59	50.00	0.996	0.929	1.07

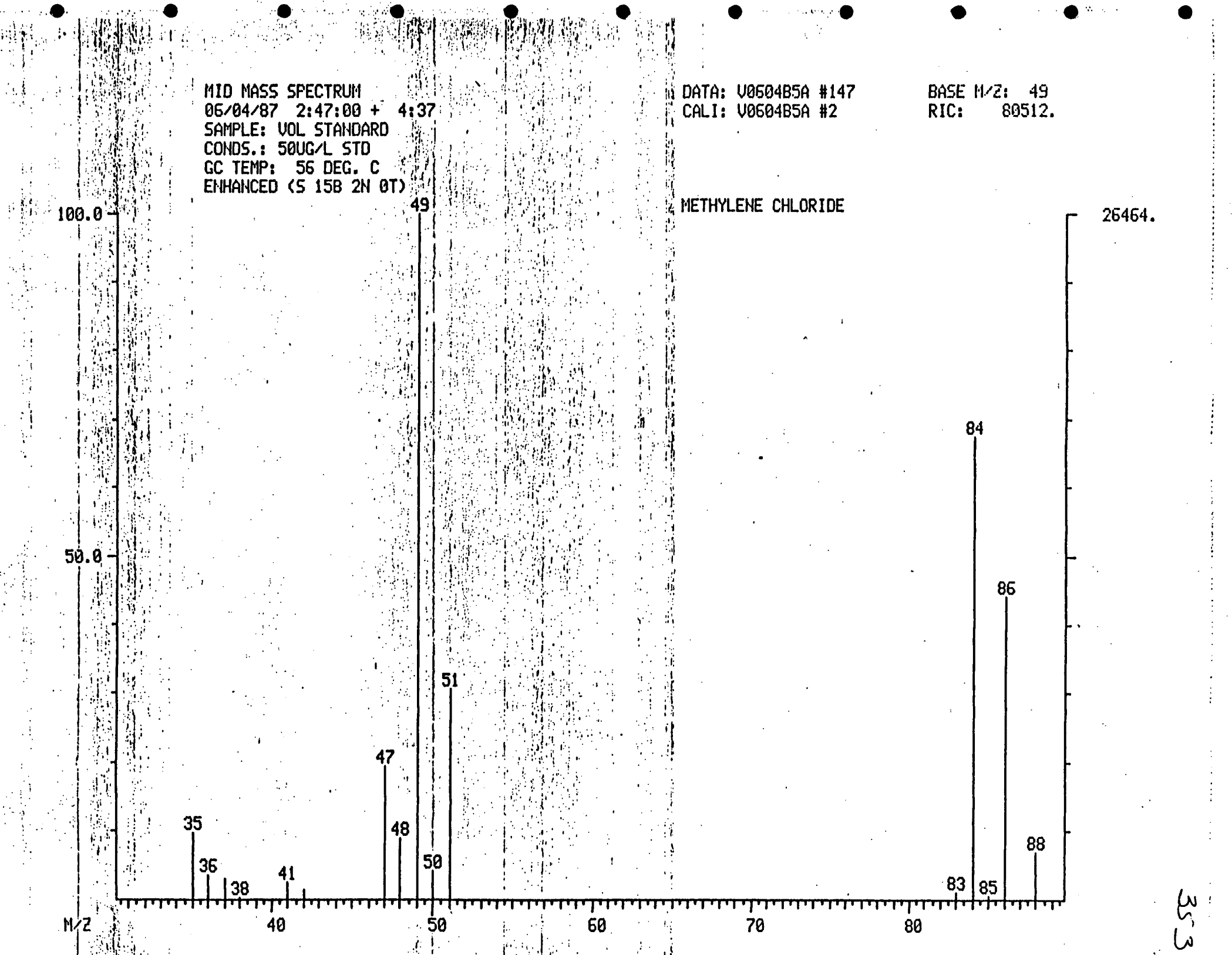
MID MASS SPECTRUM
08/18/87 17:22:00 + 4:35
SAMPLE: 14558-11
CONDS.: 5.0 ML PURGE
GC TEMP: 56 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V11 #146
CALI: 14558V11 #2

BASE M/Z: 49
RIC: 149248.

METHYLENE CHLORIDE

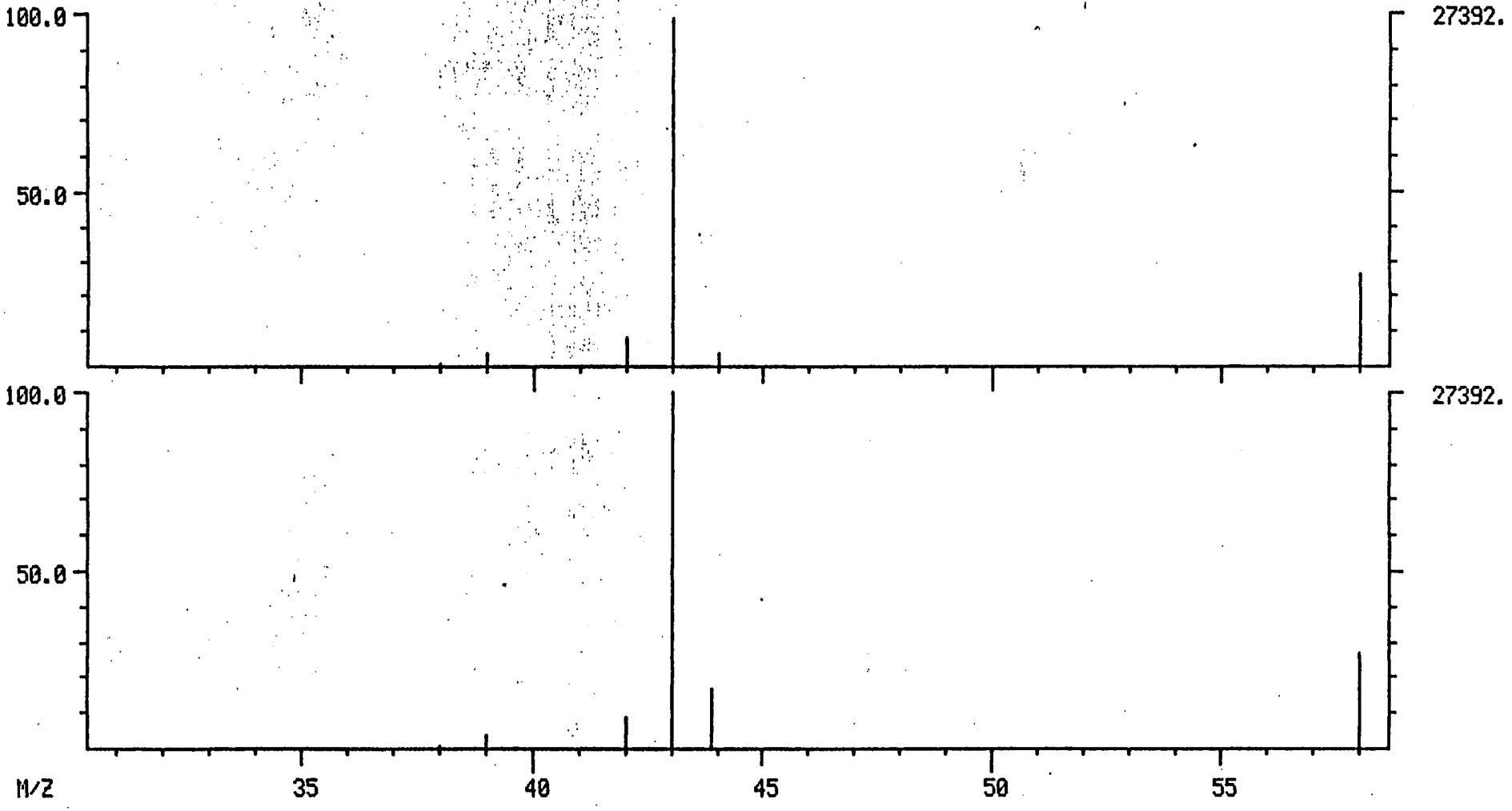



MID MASS SPECTRUM
06/04/87 2:47:00 + 4:37
SAMPLE: VOL STANDARD
CONDS.: 50UG/L STD
GC TEMP: 56 DEG. C
ENHANCED (S 15B 2N 0T)
DATA: V0604B5A #147
CALI: V0604B5A #2
BASE M/Z: 49
RIC: 80512.
METHYLENE CHLORIDE
26464.
100.0
50.0
M/Z
40
50
60
70
80
35
36
38
41
47
48
49
50
51
83
84
85
86
88

MID DUAL MASS SPECTRUM
08/18/87 17:22:00 + 5:09
SAMPLE: 14558-11
CONDS.: 5.0 ML PURGE
GC TEMP: 60 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558V11 #164
CALI: 14558V11 #2

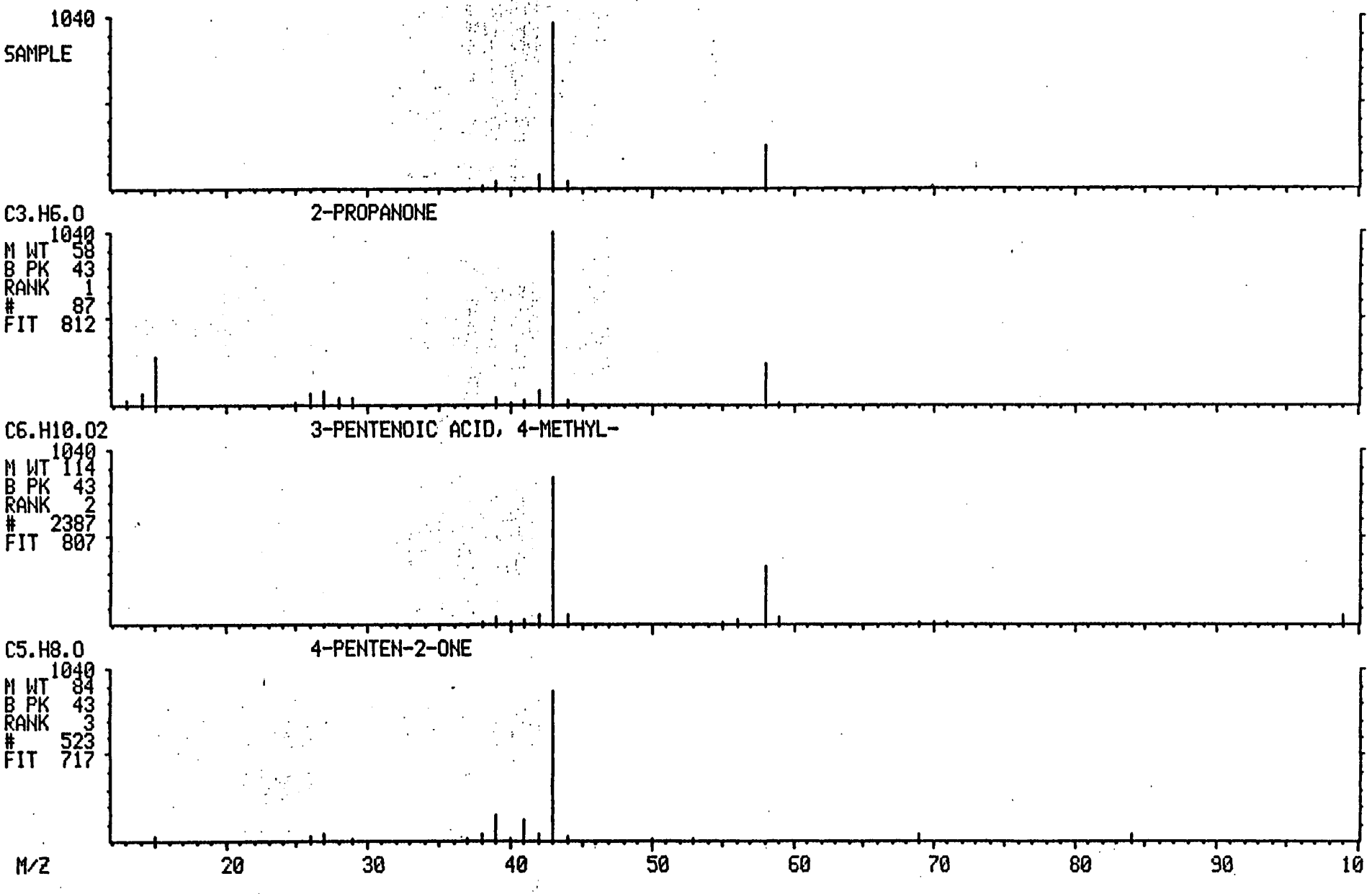
BASE M/Z: 43/ 43
RIC: 38527./ 42751.



MID LIBRARY SEARCH
08/18/87 17:22:00 + 5:09
SAMPLE: 14558-11
CONDS.: 5.0 ML PURGE
ENHANCED (S 15B 2N 0T)

DATA: 14558V11 # 164
CALI: 14558V11 # 2

BASE M/Z: 43
RIC: 38527.



MID Library Search Data: 14558V11 # 164 Base m/z: 43
08/18/87 17:22:00 + 5:09 Cali: 14558V11 # 2 RIC: 38527.
Sample: 14558-11
Conds.: 5.0 ML PURGE
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	87	2-PROPANONE
2	2387	3-PENTENOIC ACID, 4-METHYL-
3	523	4-PENTEN-2-ONE
4	7235	1,2,4,5-TETROXANE, 3,3,6,6-TETRAMETHYL-
5	1261	1-PROPEN-2-OL, ACETATE

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C3. H6. O	58	43	810	812	996
2	C6. H10. O2	114	43	807	807	987
3	C5. H8. O	84	43	547	717	726
4	C6. H12. O4	148	43	687	705	926
5	C5. H8. O2	100	43	705	705	969

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	———	———	———	———	67-64-1
2	———	———	———	———	504-85-8
3	———	———	———	———	13891-87-7
4	———	———	———	———	1073-91-2
5	———	———	———	———	108-22-5

CALIBRATION CURVE

VOLATILE ORGANICS

6F

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Instrument ID: 5100B Calibration Date(s): 08/17/87 08/17/87

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

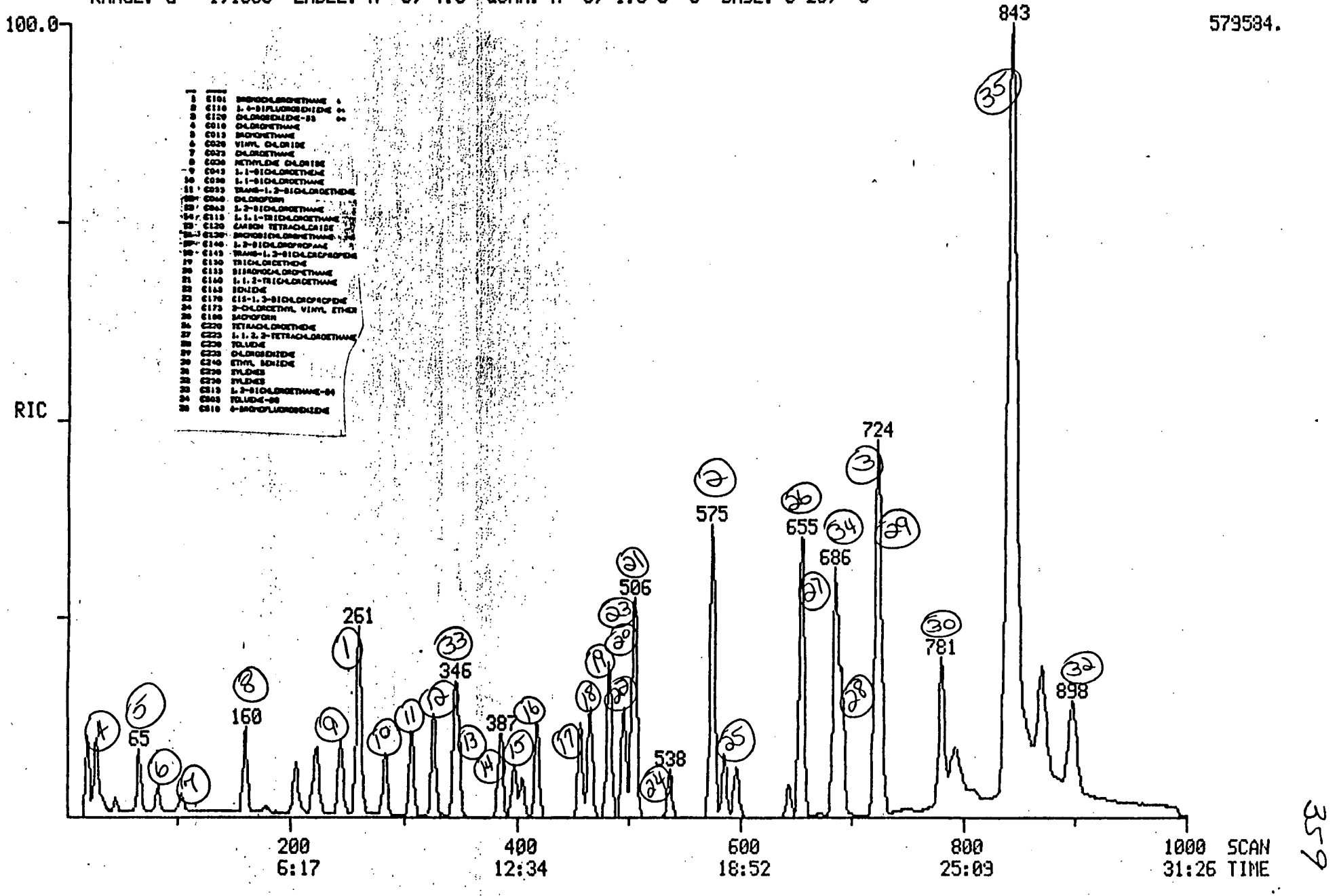
Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = V0817B2A RRF50 = V0817B5AR
RRF100= V0817B10A RRF150= V0817B15A RRF200= V0817B20A

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.576	0.614	0.250	0.199	0.329	0.394	48.2#
Bromomethane	1.726	1.282	0.972	1.024	0.970	1.195	27.1
Vinyl Chloride *	1.235	1.017	0.715	0.699	0.814	0.896	25.4*
Chloroethane	0.854	0.665	0.552	0.652	0.666	0.678	16.1
Methylene Chloride	1.566	1.200	1.006	1.101	1.064	1.187	18.8
Acetone						0.000	0.0
Carbon Disulfide						0.000	0.0
1,1-Dichloroethene *	1.362	1.083	1.011	1.064	1.027	1.109	13.0*
1,1-Dichloroethane #	2.908	2.298	2.192	2.187	2.035	2.324	14.6#
1,2-Dichloroethene (total)	1.643	1.303	1.299	1.267	1.302	1.363	11.5
Chloroform *	3.485	2.969	2.755	2.824	2.567	2.920	11.9*
1,2-Dichloroethane	2.203	1.903	1.777	1.787	1.675	1.869	10.9
2-Butanone						0.000	0.0
1,1,1-Trichloroethane	0.534	0.452	0.422	0.436	0.417	0.452	10.6
Carbon Tetrachloride	0.305	0.303	0.299	0.316	0.306	0.306	2.1
Vinyl Acetate						0.000	0.0
Bromodichloromethane	0.614	0.553	0.526	0.542	0.512	0.549	7.2
1,2-Dichloropropane *	0.359	0.306	0.291	0.300	0.283	0.308	9.7*
cis-1,3-Dichloropropene	0.262	0.234	0.228	0.238	0.230	0.238	5.8
Trichloroethene	0.552	0.428	0.399	0.399	0.380	0.432	16.1
Dibromochloromethane	0.474	0.442	0.436	0.444	0.422	0.444	4.3
1,1,2-Trichloroethane	0.387	0.317	0.300	0.296	0.276	0.315	13.6
Benzene	0.909	0.753	0.702	0.708	0.676	0.750	12.4
Trans-1,3-Dichloropropene	0.642	0.555	0.529	0.554	0.533	0.563	8.2
2-Chloroethylvinylether	0.218	0.147	0.189	0.182	0.175	0.182	14.1
Bromoform #	0.350	0.335	0.369	0.377	0.368	0.360	4.7#
4-Methyl-2-Pentanone						0.000	0.0
2-Hexanone						0.000	0.0
Tetrachloroethene	0.614	0.493	0.444	0.443	0.421	0.483	16.1
1,1,2,2-Tetrachloroethane #	0.758	0.626	0.634	0.596	0.569	0.637	11.4#
Toluene *	0.815	0.650	0.601	0.611	0.589	0.653	14.3*
Chlorobenzene #	1.120	0.907	0.836	0.854	0.820	0.907	13.6#
Ethylbenzene *	0.504	0.402	0.374	0.381	0.369	0.406	13.8*
Styrene						0.000	0.0
Total Xylenes	0.601	0.448	0.407	0.435	0.439	0.466	16.5
Toluene-d8	0.879	0.869	0.899	0.897	0.900	0.893	1.0
BFB	0.778	0.779	0.766	0.783	0.816	0.784	2.4
1,2-Dichloroethane-d4	1.366	1.443	1.511	1.663	1.622	1.521	8.1

MIDRIC
08/17/87 2:01:00
SAMPLE: VOL STANDARD (8/17/87)
CONDS.: 20UG/L STD
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V0817B2A #1 SCANS 1 TO 1000
CALI: V0817B20A #2



359

Quantitation Report File: V0817B2A

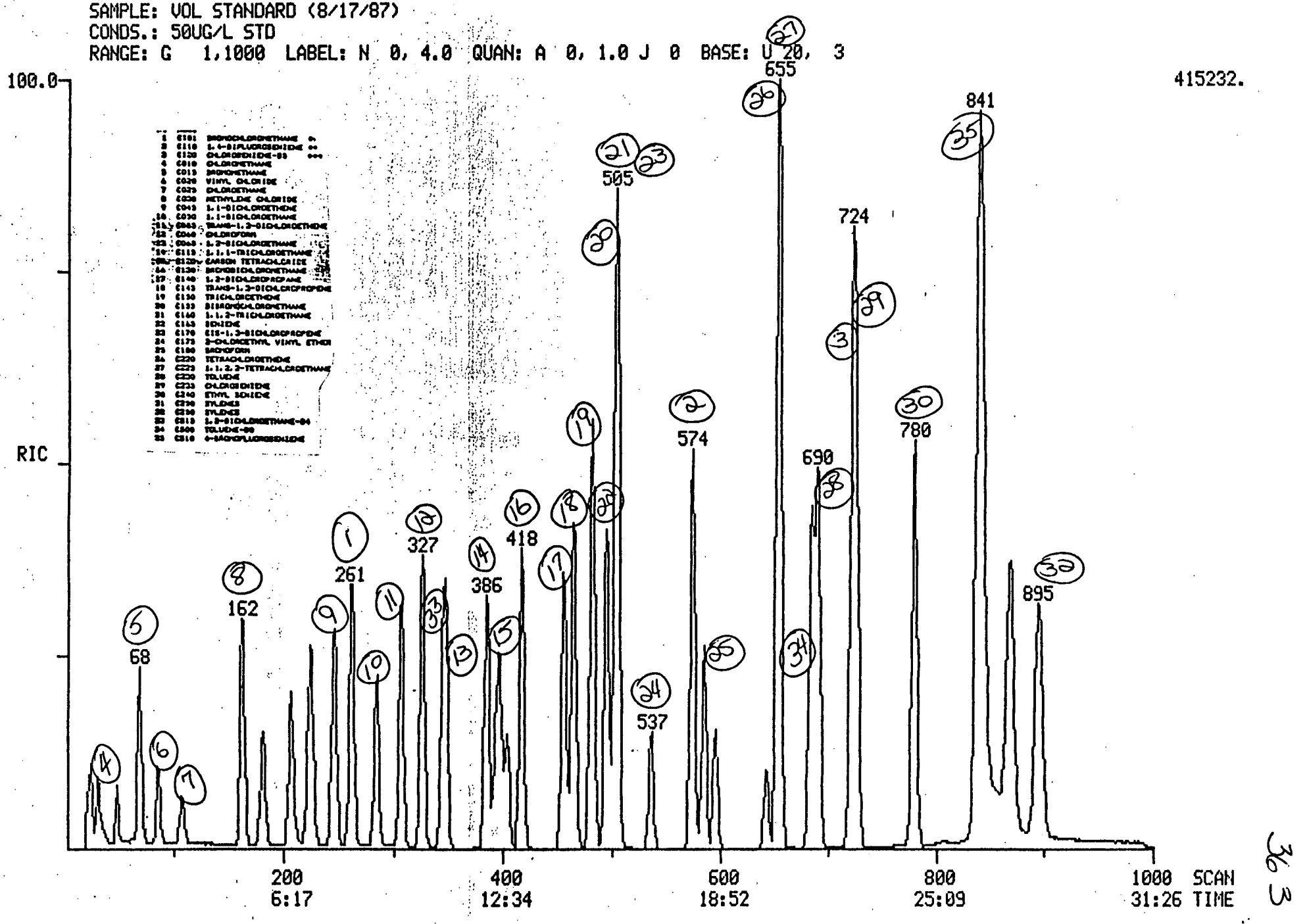
Data: V0817B2A.TI
08/17/87 2:01:00
Sample: VOL STANDARD (8/17/87)
Conds.: 20UG/L STD
Submitted by: AK Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	260	8:10	1	1.000	A BB	108055.	50.000 UG/L	5.81
2	114	575	18:05	2	1.000	A BB	542148.	50.000 UG/L	5.81
3	117	723	22:44	3	1.000	A BB	438537.	50.000 UG/L	5.81
4	50	45	1:25	1	0.173	A BB	24893.	20.000 UG/L	2.33
5	94	65	2:03	1	0.250	A BB	74598.	20.000 UG/L	2.33
6	62	82	2:35	1	0.315	A BB	53390.	20.000 UG/L	2.33
7	64	103	3:14	1	0.396	A BB	36904.	20.000 UG/L	2.33
8	84	160	5:02	1	0.615	A BB	67669.	20.000 UG/L	2.33
9	96	244	7:40	1	0.938	A BB	58862.	20.000 UG/L	2.33
10	63	284	8:56	1	1.092	A BB	125703.	20.000 UG/L	2.33
11	96	307	9:39	1	1.181	A BB	70996.	20.000 UG/L	2.33
12	83	327	10:17	1	1.258	A BB	150614.	20.000 UG/L	2.33
13	62	349	10:58	1	1.342	A BB	95222.	20.000 UG/L	2.33
14	97	386	12:08	2	0.671	A BB	115871.	20.000 UG/L	2.33
15	117	398	12:31	2	0.692	A BB	66124.	20.000 UG/L	2.33
16	83	418	13:08	2	0.727	A BB	133108.	20.000 UG/L	2.33
17	63	457	14:22	2	0.795	A BB	77809.	20.000 UG/L	2.33
18	75	466	14:39	2	0.810	A BB	139329.	20.000 UG/L	2.33
19	130	483	15:11	2	0.840	A BB	119737.	20.000 UG/L	2.33
20	129	504	15:51	2	0.877	A BB	102688.	20.000 UG/L	2.33
21	97	506	15:54	2	0.880	A BB	83985.	20.000 UG/L	2.33
22	78	496	15:36	2	0.863	A BB	197060.	20.000 UG/L	2.33
23	75	505	15:52	2	0.878	A BB	56900.	20.000 UG/L	2.33
24	63	537	16:53	2	0.934	A BB	47268.	20.000 UG/L	2.33
25	173	586	18:25	2	1.019	A BB	75877.	20.000 UG/L	2.33
26	164	655	20:35	3	0.906	A BB	107776.	20.000 UG/L	2.33
27	83	656	20:37	3	0.907	A BB	132993.	20.000 UG/L	2.33
28	92	691	21:43	3	0.956	A BB	142922.	20.000 UG/L	2.33
29	112	727	22:51	3	1.006	A BB	196426.	20.000 UG/L	2.33
30	106	781	24:33	3	1.080	A BB	88460.	20.000 UG/L	2.33
31	NOT	FOUND							
32	106	898	28:14	3	1.242	A BB	105407.	20.000 UG/L	2.33
33	65	346	10:53	1	1.331	A BB	147576.	50.000 UG/L	5.81
34	98	686	21:34	3	0.949	A BB	385436.	50.000 UG/L	5.81
35	95	840	26:24	3	1.162	A BB	341230.	50.000 UG/L	5.81

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:09	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:59	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:36	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:27	0.98	0.178	0.97	20.00	20.00	0.576	0.576	1.00
5	2:06	0.97	0.259	0.97	20.00	20.00	1.726	1.726	1.00
6	2:38	0.98	0.324	0.97	20.00	20.00	1.235	1.235	1.00
7	3:18	0.98	0.405	0.98	20.00	20.00	0.854	0.854	1.00
8	5:02	1.00	0.618	1.00	20.00	20.00	1.566	1.566	1.00
9	7:38	1.00	0.938	1.00	20.00	20.00	1.362	1.362	1.00
10	8:52	1.01	1.089	1.00	20.00	20.00	2.908	2.908	1.00
11	9:35	1.01	1.178	1.00	20.00	20.00	1.643	1.643	1.00
12	10:13	1.01	1.255	1.00	20.00	20.00	3.485	3.485	1.00
13	10:53	1.01	1.336	1.00	20.00	20.00	2.203	2.203	1.00
14	12:04	1.01	0.671	1.00	20.00	20.00	0.534	0.534	1.00
15	12:25	1.01	0.691	1.00	20.00	20.00	0.305	0.305	1.00
16	13:05	1.00	0.727	1.00	20.00	20.00	0.614	0.614	1.00
17	14:16	1.01	0.794	1.00	20.00	20.00	0.359	0.359	1.00
18	14:33	1.01	0.809	1.00	20.00	20.00	0.642	0.642	1.00
19	15:05	1.01	0.839	1.00	20.00	20.00	0.552	0.552	1.00
20	15:45	1.01	0.876	1.00	20.00	20.00	0.474	0.474	1.00
21	15:51	1.00	0.881	1.00	20.00	20.00	0.387	0.387	1.00
22	15:30	1.01	0.862	1.00	20.00	20.00	0.909	0.909	1.00
23	15:47	1.01	0.878	1.00	20.00	20.00	0.262	0.262	1.00
24	16:47	1.01	0.934	1.00	20.00	20.00	0.218	0.218	1.00
25	18:20	1.01	1.019	1.00	20.00	20.00	0.350	0.350	1.00
26	20:30	1.00	0.907	1.00	20.00	20.00	0.614	0.614	1.00
27	20:32	1.00	0.908	1.00	20.00	20.00	0.758	0.758	1.00
28	21:38	1.00	0.957	1.00	20.00	20.00	0.815	0.815	1.00
29	22:44	1.01	1.006	1.00	20.00	20.00	1.120	1.120	1.00
30	24:27	1.00	1.082	1.00	20.00	20.00	0.504	0.504	1.00
31	27:27		1.214			200.00		0.011	
32	28:04	1.01	1.242	1.00	20.00	20.00	0.601	0.601	1.00
33	10:47	1.01	1.324	1.00	50.00	50.00	1.366	1.366	1.00
34	21:26	1.01	0.949	1.00	50.00	50.00	0.879	0.879	1.00
35	26:19	1.00	1.164	1.00	50.00	50.00	0.778	0.778	1.00


MIDRIC
08/17/87 5:45:00
SAMPLE: VOL STANDARD (8/17/87)
CONDS.: 50UG/L STD
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: V0817B5AR #1
CALI: V0817B10A #2
SCANS 1 TO 1000
100.0
415232.
RIC
68
162
261
327
386
418
505
537
574
655
690
724
780
841
895
200
6:17
400
12:34
600
18:52
800
25:09
1000 SCAN
31:26 TIME

36 3

Quantitation Report File: V0817B5AR

Data: V0817B5AR.TI
08/17/87 5:45:00
Sample: VOL STANDARD (8/17/87)
Conds.: 50UG/L STD
Submitted by: AK Analyst: PAA

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

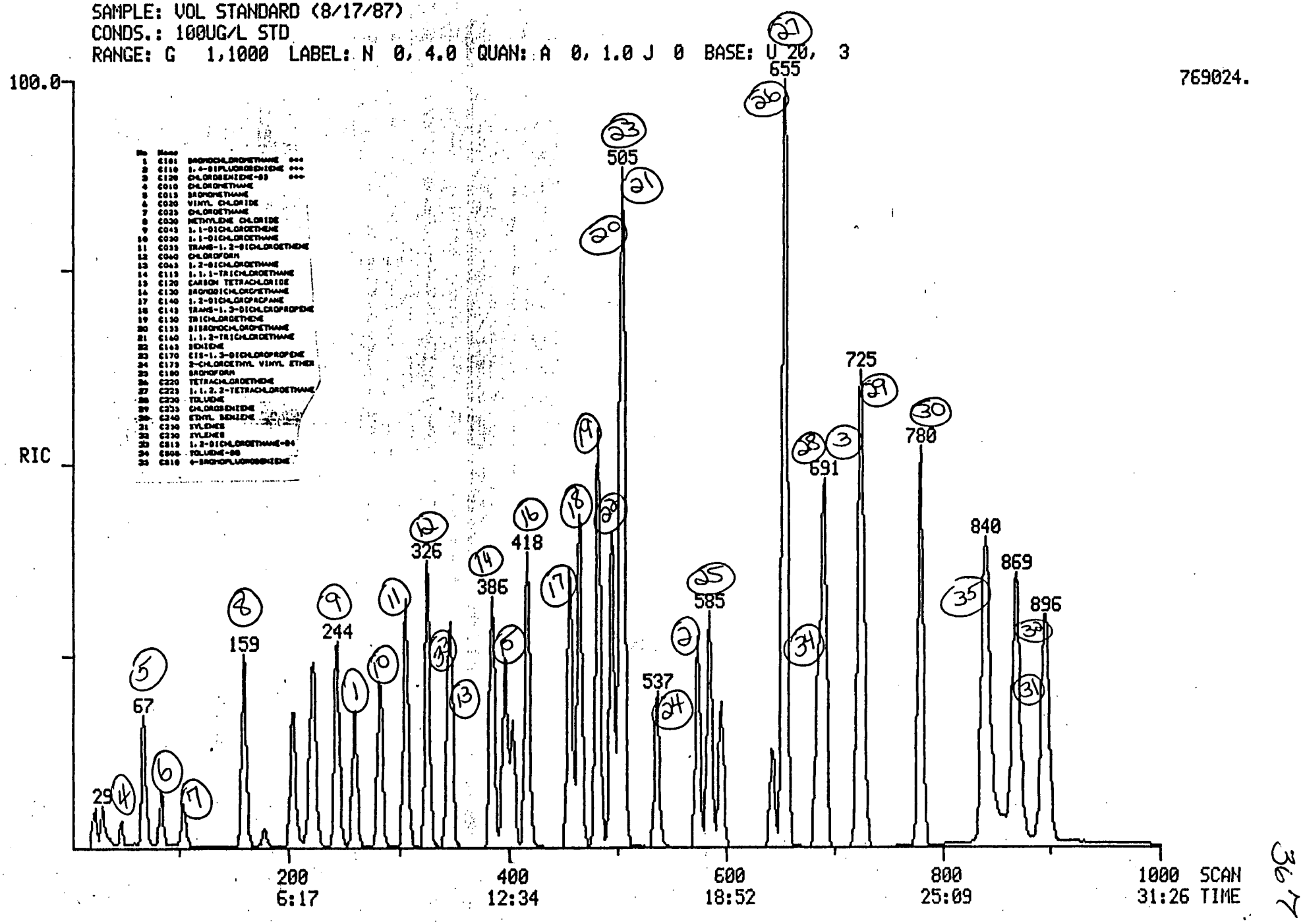
NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	261	8:12	1	1.000	A BB	111523.	50.000 UG/L	2.94
2	114	574	18:03	2	1.000	A BB	548035.	50.000 UG/L	2.94
3	117	722	22:42	3	1.000	A BB	437587.	50.000 UG/L	2.94
4	50	47	1:29	1	0.180	A BB	68433.	50.000 UG/L	2.94
5	94	68	2:08	1	0.261	A BB	142980.	50.000 UG/L	2.94
6	62	85	2:40	1	0.326	A BB	113390.	50.000 UG/L	2.94
7	64	107	3:22	1	0.410	A BB	74198.	50.000 UG/L	2.94
8	84	162	5:06	1	0.621	A BB	133782.	50.000 UG/L	2.94
9	96	246	7:44	1	0.943	A BB	120799.	50.000 UG/L	2.94
10	63	285	8:58	1	1.092	A BB	256297.	50.000 UG/L	2.94
11	96	307	9:39	1	1.176	A BB	145360.	50.000 UG/L	2.94
12	83	327	10:17	1	1.253	A BB	331058.	50.000 UG/L	2.94
13	62	349	10:58	1	1.337	A BB	212252.	50.000 UG/L	2.94
14	97	386	12:08	2	0.672	A BB	247617.	50.000 UG/L	2.94
15	117	398	12:31	2	0.693	A VB	165920.	50.000 UG/L	2.94
16	83	418	13:08	2	0.728	A BB	303332.	50.000 UG/L	2.94
17	63	456	14:20	2	0.794	A BB	167778.	50.000 UG/L	2.94
18	75	465	14:37	2	0.810	A VB	303950.	50.000 UG/L	2.94
19	130	482	15:09	2	0.840	A BB	234454.	50.000 UG/L	2.94
20	129	503	15:49	2	0.876	A BB	242308.	50.000 UG/L	2.94
21	97	505	15:52	2	0.880	A BB	173888.	50.000 UG/L	2.94
22	78	495	15:34	2	0.862	A BB	412542.	50.000 UG/L	2.94
23	75	505	15:52	2	0.880	A BB	127996.	50.000 UG/L	2.94
24	63	537	16:53	2	0.936	A BB	80776.	50.000 UG/L	2.94
25	173	585	18:23	2	1.019	A BB	183364.	50.000 UG/L	2.94
26	164	654	20:34	3	0.906	A BB	215518.	50.000 UG/L	2.94
27	83	655	20:35	3	0.907	A BB	273765.	50.000 UG/L	2.94
28	92	691	21:43	3	0.957	A BB	284482.	50.000 UG/L	2.94
29	112	726	22:49	3	1.006	A BB	396932.	50.000 UG/L	2.94
30	106	780	24:31	3	1.080	A BB	176042.	50.000 UG/L	2.94
31	NOT	FOUND							
32	106	895	28:08	3	1.240	A BB	195874.	50.000 UG/L	2.94
33	65	346	10:53	1	1.326	A BB	160927.	50.000 UG/L	2.94
34	98	685	21:32	3	0.949	A BB	388878.	50.000 UG/L	2.94
35	95	840	26:24	3	1.163	A BB	340993.	50.000 UG/L	2.94

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:09	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:59	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:36	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:27	1.02	0.178	1.01	50.00	50.00	0.614	0.614	1.00
5	2:06	1.01	0.259	1.01	50.00	50.00	1.282	1.282	1.00
6	2:38	1.01	0.324	1.00	50.00	50.00	1.017	1.017	1.00
7	3:18	1.02	0.405	1.01	50.00	50.00	0.665	0.665	1.00
8	5:02	1.01	0.618	1.00	50.00	50.00	1.200	1.200	1.00
9	7:38	1.01	0.938	1.00	50.00	50.00	1.083	1.083	1.00
10	8:52	1.01	1.089	1.00	50.00	50.00	2.298	2.298	1.00
11	9:35	1.01	1.178	1.00	50.00	50.00	1.303	1.303	1.00
12	10:13	1.01	1.255	1.00	50.00	50.00	2.969	2.969	1.00
13	10:53	1.01	1.336	1.00	50.00	50.00	1.903	1.903	1.00
14	12:04	1.01	0.671	1.00	50.00	50.00	0.452	0.452	1.00
15	12:25	1.01	0.691	1.00	50.00	50.00	0.303	0.303	1.00
16	13:05	1.00	0.727	1.00	50.00	50.00	0.553	0.553	1.00
17	14:16	1.00	0.794	1.00	50.00	50.00	0.306	0.306	1.00
18	14:33	1.00	0.809	1.00	50.00	50.00	0.555	0.555	1.00
19	15:05	1.00	0.839	1.00	50.00	50.00	0.428	0.428	1.00
20	15:45	1.00	0.876	1.00	50.00	50.00	0.442	0.442	1.00
21	15:51	1.00	0.881	1.00	50.00	50.00	0.317	0.317	1.00
22	15:30	1.00	0.862	1.00	50.00	50.00	0.753	0.753	1.00
23	15:47	1.01	0.878	1.00	50.00	50.00	0.234	0.234	1.00
24	16:47	1.01	0.934	1.00	50.00	50.00	0.147	0.147	1.00
25	18:20	1.00	1.019	1.00	50.00	50.00	0.335	0.335	1.00
26	20:30	1.00	0.907	1.00	50.00	50.00	0.493	0.493	1.00
27	20:32	1.00	0.908	1.00	50.00	50.00	0.626	0.626	1.00
28	21:38	1.00	0.957	1.00	50.00	50.00	0.650	0.650	1.00
29	22:44	1.00	1.006	1.00	50.00	50.00	0.907	0.907	1.00
30	24:27	1.00	1.082	1.00	50.00	50.00	0.402	0.402	1.00
31	27:27		1.214			100.00		0.005	
32	28:04	1.00	1.242	1.00	50.00	50.00	0.448	0.448	1.00
33	10:47	1.01	1.324	1.00	50.00	50.00	1.443	1.443	1.00
34	21:26	1.00	0.949	1.00	50.00	50.00	0.889	0.889	1.00
35	26:19	1.00	1.164	1.00	50.00	50.00	0.779	0.779	1.00

MIDRIC
08/17/87 4:49:00
SAMPLE: VOL STANDARD (8/17/87)
CONDS.: 100UG/L STD
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V0817B10A #1 SCANS 1 TO 1000
CALI: V0817B5A #2



Quantitation Report File: V0817B10A

Data: V0817B10A.TI
08/17/87 4:49:00
Sample: VOL STANDARD (8/17/87)
Conds.: 100UG/L STD
Submitted by: AK Analyst: PAA

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

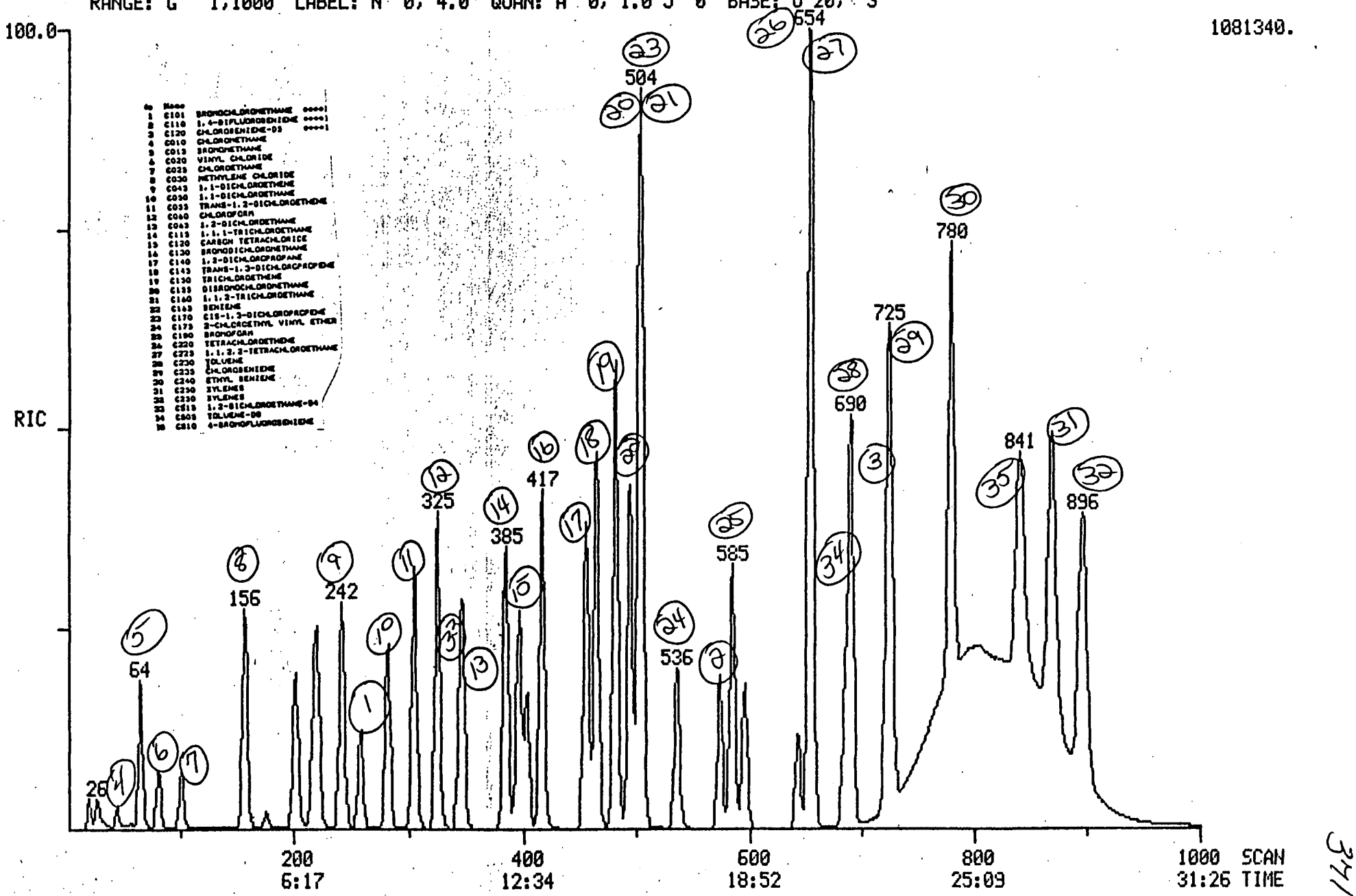
NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	259	8:09	1	1.000	A BB	107455.	50.000	UG/L	1.56
2	114	574	18:03	2	1.000	A BB	535758.	50.000	UG/L	1.56
3	117	722	22:42	3	1.000	A BB	425070.	50.000	UG/L	1.56
4	50	47	1:29	1	0.181	A BB	53668.	100.000	UG/L	3.13
5	94	67	2:06	1	0.259	A BB	208786.	100.000	UG/L	3.12
6	62	83	2:37	1	0.320	A BB	153594.	100.000	UG/L	3.13
7	64	103	3:14	1	0.398	A BB	118689.	100.000	UG/L	3.13
8	84	159	5:00	1	0.614	A BB	216199.	100.000	UG/L	3.13
9	96	244	7:40	1	0.942	A BB	217251.	100.000	UG/L	3.13
10	63	283	8:54	1	1.093	A BB	471112.	100.000	UG/L	3.13
11	96	306	9:37	1	1.181	A BB	279142.	100.000	UG/L	3.13
12	83	326	10:15	1	1.259	A BB	591992.	100.000	UG/L	3.13
13	62	348	10:56	1	1.344	A BB	381937.	100.000	UG/L	3.13
14	97	386	12:08	2	0.672	A BB	452594.	100.000	UG/L	3.13
15	117	397	12:29	2	0.692	A VB	320400.	100.000	UG/L	3.13
16	83	418	13:08	2	0.728	A BB	563109.	100.000	UG/L	3.13
17	63	456	14:20	2	0.794	A BB	312266.	100.000	UG/L	3.12
18	75	465	14:37	2	0.810	A VB	566629.	100.000	UG/L	3.13
19	130	482	15:09	2	0.840	A BB	427014.	100.000	UG/L	3.13
20	129	503	15:49	2	0.876	A BB	467035.	100.000	UG/L	3.12
21	97	506	15:54	2	0.882	A BB	321532.	100.000	UG/L	3.13
22	78	495	15:34	2	0.862	A BB	752546.	100.000	UG/L	3.13
23	75	505	15:52	2	0.880	A VB	244570.	100.000	UG/L	3.13
24	63	538	16:55	2	0.937	A BB	202375.	100.000	UG/L	3.13
25	173	585	18:23	2	1.019	A BB	395622.	100.000	UG/L	3.13
26	164	654	20:34	3	0.906	A BB	377461.	100.000	UG/L	3.13
27	83	655	20:35	3	0.907	A BB	538671.	100.000	UG/L	3.12
28	92	691	21:43	3	0.957	A BB	510835.	100.000	UG/L	3.13
29	112	726	22:49	3	1.006	A BB	710483.	100.000	UG/L	3.12
30	106	780	24:31	3	1.080	A BB	317848.	100.000	UG/L	3.13
31	106	875	27:30	3	1.212	A BB	4085.	100.000	UG/L	3.13
32	106	895	28:08	3	1.240	A BB	346240.	100.000	UG/L	3.12
33	65	345	10:51	1	1.332	A BB	162373.	50.000	UG/L	1.56
34	98	685	21:32	3	0.949	A BB	382109.	50.000	UG/L	1.56
35	95	838	26:21	3	1.161	A BB	325788.	50.000	UG/L	1.56

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:09	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:59	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:36	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:27	1.02	0.178	1.02	100.00	100.00	0.250	0.250	1.00
5	2:06	1.00	0.259	1.00	100.00	100.00	0.972	0.972	1.00
6	2:38	0.99	0.324	0.99	100.00	100.00	0.715	0.715	1.00
7	3:18	0.98	0.405	0.98	100.00	100.00	0.552	0.552	1.00
8	5:02	0.99	0.618	0.99	100.00	100.00	1.006	1.006	1.00
9	7:38	1.00	0.938	1.00	100.00	100.00	1.011	1.011	1.00
10	8:52	1.00	1.089	1.00	100.00	100.00	2.192	2.192	1.00
11	9:35	1.00	1.178	1.00	100.00	100.00	1.299	1.299	1.00
12	10:13	1.00	1.255	1.00	100.00	100.00	2.755	2.755	1.00
13	10:53	1.01	1.336	1.01	100.00	100.00	1.777	1.777	1.00
14	12:04	1.01	0.671	1.00	100.00	100.00	0.422	0.422	1.00
15	12:25	1.01	0.691	1.00	100.00	100.00	0.299	0.299	1.00
16	13:05	1.00	0.727	1.00	100.00	100.00	0.526	0.526	1.00
17	14:16	1.00	0.794	1.00	100.00	100.00	0.291	0.291	1.00
18	14:33	1.00	0.809	1.00	100.00	100.00	0.529	0.529	1.00
19	15:05	1.00	0.839	1.00	100.00	100.00	0.399	0.399	1.00
20	15:45	1.00	0.876	1.00	100.00	100.00	0.436	0.436	1.00
21	15:51	1.00	0.881	1.00	100.00	100.00	0.300	0.300	1.00
22	15:30	1.00	0.862	1.00	100.00	100.00	0.702	0.702	1.00
23	15:47	1.01	0.878	1.00	100.00	100.00	0.228	0.228	1.00
24	16:47	1.01	0.934	1.00	100.00	100.00	0.189	0.189	1.00
25	18:20	1.00	1.019	1.00	100.00	100.00	0.369	0.369	1.00
26	20:30	1.00	0.907	1.00	100.00	100.00	0.444	0.444	1.00
27	20:32	1.00	0.908	1.00	100.00	100.00	0.634	0.634	1.00
28	21:38	1.00	0.957	1.00	100.00	100.00	0.601	0.601	1.00
29	22:44	1.00	1.006	1.00	100.00	100.00	0.836	0.836	1.00
30	24:27	1.00	1.082	1.00	100.00	100.00	0.374	0.374	1.00
31	27:27	1.00	1.214	1.00	100.00	100.00	0.005	0.005	1.00
32	28:04	1.00	1.242	1.00	100.00	100.00	0.407	0.407	1.00
33	10:47	1.01	1.324	1.01	50.00	50.00	1.511	1.511	1.00
34	21:26	1.00	0.949	1.00	50.00	50.00	0.899	0.899	1.00
35	26:19	1.00	1.164	1.00	50.00	50.00	0.766	0.766	1.00

MIDRIC
08/17/87 4:07:00
SAMPLE: VOL STANDARD (8/17/87)
CONDS.: 150UG/L STD
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V0817B15A #1 SCANS 1 TO 1000
CALI: V0817B5A #2



Quantitation Report File: V0817B15A

Data: V0817B15A.TI
08/17/87 4:07:00
Sample: VOL STANDARD (8/17/87)
Conds.: 150UG/L STD
Submitted by: AK Analyst: PAA

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

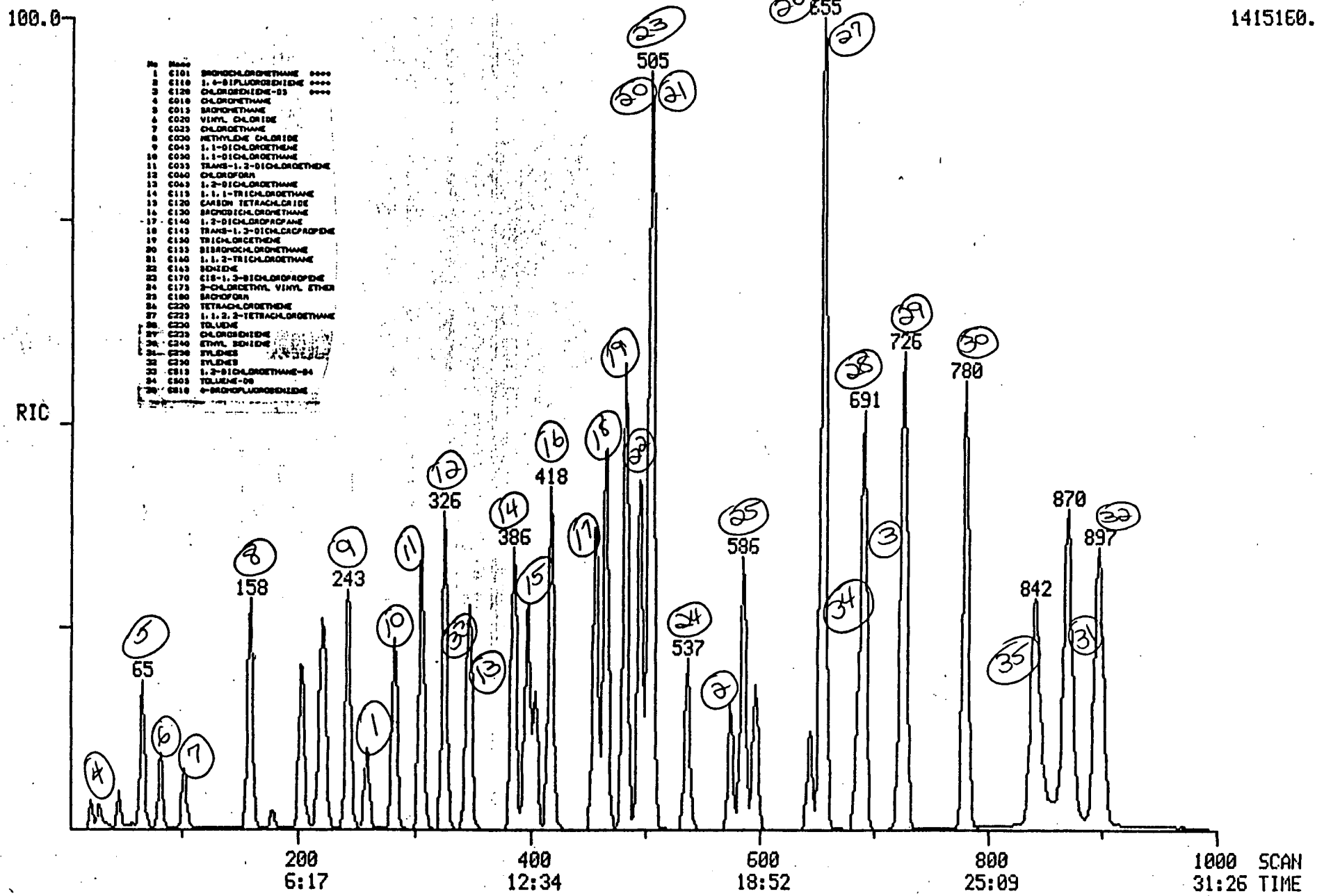
NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	258	8:07	1	1.000	A BB	103706.	50.000 UG/L	1.08
2	114	574	18:03	2	1.000	A BB	521926.	50.000 UG/L	1.08
3	117	722	22:42	3	1.000	A BB	413918.	50.000 UG/L	1.08
4	50	44	1:23	1	0.171	A BB	61889.	150.000 UG/L	3.23
5	94	64	2:01	1	0.248	A BB	318560.	150.000 UG/L	3.23
6	62	80	2:31	1	0.310	A BB	217537.	150.000 UG/L	3.23
7	64	100	3:09	1	0.388	A BB	202718.	150.000 UG/L	3.23
8	84	156	4:54	1	0.605	A BB	342592.	150.000 UG/L	3.23
9	96	242	7:36	1	0.938	A BB	331062.	150.000 UG/L	3.23
10	63	282	8:52	1	1.093	A BB	680363.	150.000 UG/L	3.23
11	96	305	9:35	1	1.182	A BB	394098.	150.000 UG/L	3.23
12	83	325	10:13	1	1.260	A BB	878578.	150.000 UG/L	3.23
13	62	347	10:54	1	1.345	A BB	555951.	150.000 UG/L	3.23
14	97	385	12:06	2	0.671	A BB	682490.	150.000 UG/L	3.23
15	117	397	12:29	2	0.692	A VB	495166.	150.000 UG/L	3.23
16	83	417	13:07	2	0.726	A BB	847979.	150.000 UG/L	3.23
17	63	456	14:20	2	0.794	A BB	470048.	150.000 UG/L	3.23
18	75	465	14:37	2	0.810	A BB	867044.	150.000 UG/L	3.23
19	130	482	15:09	2	0.840	A BB	624958.	150.000 UG/L	3.23
20	129	503	15:49	2	0.876	A BB	695259.	150.000 UG/L	3.23
21	97	505	15:52	2	0.880	A BB	463168.	150.000 UG/L	3.23
22	78	495	15:34	2	0.862	A BB	1107820.	150.000 UG/L	3.23
23	75	504	15:51	2	0.878	A VB	372718.	150.000 UG/L	3.23
24	63	536	16:51	2	0.934	A BB	285081.	150.000 UG/L	3.23
25	173	585	18:23	2	1.019	A BB	590999.	150.000 UG/L	3.23
26	164	654	20:34	3	0.906	A BB	550268.	150.000 UG/L	3.23
27	83	655	20:35	3	0.907	A BB	740340.	150.000 UG/L	3.23
28	92	690	21:41	3	0.956	A BB	758754.	150.000 UG/L	3.23
29	112	726	22:49	3	1.006	A BB	1060140.	150.000 UG/L	3.23
30	106	780	24:31	3	1.080	A BB	472687.	150.000 UG/L	3.23
31	106	875	27:30	3	1.212	A BB	11195.	150.000 UG/L	3.23
32	106	896	28:10	3	1.241	A BB	540525.	150.000 UG/L	3.23
33	65	343	10:47	1	1.329	A BB	172508.	50.000 UG/L	1.08
34	98	685	21:32	3	0.949	A BB	371350.	50.000 UG/L	1.08
35	95	840	26:24	3	1.163	A BB	324223.	50.000 UG/L	1.08

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:09	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:59	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:36	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:27	0.96	0.178	0.96	150.00	150.00	0.199	0.199	1.00
5	2:06	0.96	0.259	0.96	150.00	150.00	1.024	1.024	1.00
6	2:38	0.95	0.324	0.96	150.00	150.00	0.699	0.699	1.00
7	3:18	0.95	0.405	0.96	150.00	150.00	0.652	0.652	1.00
8	5:02	0.98	0.618	0.98	150.00	150.00	1.101	1.101	1.00
9	7:38	1.00	0.938	1.00	150.00	150.00	1.064	1.064	1.00
10	8:52	1.00	1.089	1.00	150.00	150.00	2.187	2.187	1.00
11	9:35	1.00	1.178	1.00	150.00	150.00	1.267	1.267	1.00
12	10:13	1.00	1.255	1.00	150.00	150.00	2.824	2.824	1.00
13	10:53	1.00	1.336	1.01	150.00	150.00	1.787	1.787	1.00
14	12:04	1.00	0.671	1.00	150.00	150.00	0.436	0.436	1.00
15	12:25	1.01	0.691	1.00	150.00	150.00	0.316	0.316	1.00
16	13:05	1.00	0.727	1.00	150.00	150.00	0.542	0.542	1.00
17	14:16	1.00	0.794	1.00	150.00	150.00	0.300	0.300	1.00
18	14:33	1.00	0.809	1.00	150.00	150.00	0.554	0.554	1.00
19	15:05	1.00	0.839	1.00	150.00	150.00	0.399	0.399	1.00
20	15:45	1.00	0.876	1.00	150.00	150.00	0.444	0.444	1.00
21	15:51	1.00	0.881	1.00	150.00	150.00	0.296	0.296	1.00
22	15:30	1.00	0.862	1.00	150.00	150.00	0.708	0.708	1.00
23	15:47	1.00	0.878	1.00	150.00	150.00	0.238	0.238	1.00
24	16:47	1.00	0.934	1.00	150.00	150.00	0.182	0.182	1.00
25	18:20	1.00	1.019	1.00	150.00	150.00	0.377	0.377	1.00
26	20:30	1.00	0.907	1.00	150.00	150.00	0.443	0.443	1.00
27	20:32	1.00	0.908	1.00	150.00	150.00	0.596	0.596	1.00
28	21:38	1.00	0.957	1.00	150.00	150.00	0.611	0.611	1.00
29	22:44	1.00	1.006	1.00	150.00	150.00	0.854	0.854	1.00
30	24:27	1.00	1.082	1.00	150.00	150.00	0.381	0.381	1.00
31	27:27	1.00	1.214	1.00	150.00	150.00	0.009	0.009	1.00
32	28:04	1.00	1.242	1.00	150.00	150.00	0.435	0.435	1.00
33	10:47	1.00	1.324	1.00	50.00	50.00	1.663	1.663	1.00
34	21:26	1.00	0.949	1.00	50.00	50.00	0.897	0.897	1.00
35	26:19	1.00	1.164	1.00	50.00	50.00	0.783	0.783	1.00

MIDRIC
08/17/87 2:42:00
SAMPLE: VOL STANDARD (8/17/87)
CONDS.: 200UG/L STD
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: N 20, 3

DATA: V0817B20A #1 SCANS 1 TO 1000
CALI: V0817B20A #2



Quantitation Report File: V0817B20A

Data: V0817B20A.TI
08/17/87 2:42:00
Sample: VOL STANDARD (8/17/87)
Conds.: 200UG/L STD
Submitted by: AK Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	259	8:09	1	1.000	A BB	108280.	50.000	UG/L	0.82
2	114	575	18:05	2	1.000	A BB	538820.	50.000	UG/L	0.82
3	117	723	22:44	3	1.000	A BB	422156.	50.000	UG/L	0.82
4	50	45	1:25	1	0.174	A BB	142410.	200.000	UG/L	3.28
5	94	65	2:03	1	0.251	A BB	420028.	200.000	UG/L	3.28
6	62	81	2:33	1	0.313	A BB	352419.	200.000	UG/L	3.28
7	64	101	3:10	1	0.390	A BB	288622.	200.000	UG/L	3.28
8	84	158	4:58	1	0.610	A BB	461028.	200.000	UG/L	3.28
9	96	243	7:38	1	0.938	A BB	444955.	200.000	UG/L	3.28
10	63	283	8:54	1	1.093	A BB	881243.	200.000	UG/L	3.28
11	96	306	9:37	1	1.181	A BB	564062.	200.000	UG/L	3.28
12	83	326	10:15	1	1.259	A BB	1111830.	200.000	UG/L	3.28
13	62	348	10:56	1	1.344	A BB	725302.	200.000	UG/L	3.28
14	97	386	12:08	2	0.671	A BB	898014.	200.000	UG/L	3.28
15	117	398	12:31	2	0.692	A VB	658803.	200.000	UG/L	3.28
16	83	418	13:08	2	0.727	A BB	1103710.	200.000	UG/L	3.28
17	63	456	14:20	2	0.793	A BB	609433.	200.000	UG/L	3.28
18	75	465	14:37	2	0.809	A BB	1148540.	200.000	UG/L	3.28
19	130	483	15:11	2	0.840	A BB	819679.	200.000	UG/L	3.28
20	129	504	15:51	2	0.877	A BB	909725.	200.000	UG/L	3.28
21	97	506	15:54	2	0.880	A BB	595090.	200.000	UG/L	3.28
22	78	495	15:34	2	0.861	A BB	1456120.	200.000	UG/L	3.28
23	75	505	15:52	2	0.878	A VB	495086.	200.000	UG/L	3.28
24	63	537	16:53	2	0.934	A BB	376921.	200.000	UG/L	3.28
25	173	586	18:25	2	1.019	A BB	793102.	200.000	UG/L	3.28
26	164	655	20:35	3	0.906	A BB	710429.	200.000	UG/L	3.28
27	83	656	20:37	3	0.907	A BB	960225.	200.000	UG/L	3.28
28	92	691	21:43	3	0.956	A BB	994636.	200.000	UG/L	3.28
29	112	726	22:49	3	1.004	A BB	1384610.	200.000	UG/L	3.28
30	106	780	24:31	3	1.079	A BB	622392.	200.000	UG/L	3.28
31	106	876	27:32	3	1.212	A BB	18629.	200.000	UG/L	3.28
32	106	897	28:12	3	1.241	A BB	741853.	200.000	UG/L	3.28
33	65	345	10:51	1	1.332	A BB	175658.	50.000	UG/L	0.82
34	98	685	21:32	3	0.947	A BB	379877.	50.000	UG/L	0.82
35	95	840	26:24	3	1.162	A BB	344608.	50.000	UG/L	0.82

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:09	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:59	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:36	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:27	0.98	0.178	0.98	200.00	200.00	0.329	0.329	1.00
5	2:06	0.97	0.259	0.97	200.00	200.00	0.970	0.970	1.00
6	2:38	0.96	0.324	0.96	200.00	200.00	0.814	0.814	1.00
7	3:18	0.96	0.405	0.96	200.00	200.00	0.666	0.666	1.00
8	5:02	0.99	0.618	0.99	200.00	200.00	1.064	1.064	1.00
9	7:38	1.00	0.938	1.00	200.00	200.00	1.027	1.027	1.00
10	8:52	1.00	1.089	1.00	200.00	200.00	2.035	2.035	1.00
11	9:35	1.00	1.178	1.00	200.00	200.00	1.302	1.302	1.00
12	10:13	1.00	1.255	1.00	200.00	200.00	2.567	2.567	1.00
13	10:53	1.01	1.336	1.01	200.00	200.00	1.675	1.675	1.00
14	12:04	1.01	0.671	1.00	200.00	200.00	0.417	0.417	1.00
15	12:25	1.01	0.691	1.00	200.00	200.00	0.306	0.306	1.00
16	13:05	1.00	0.727	1.00	200.00	200.00	0.512	0.512	1.00
17	14:16	1.00	0.794	1.00	200.00	200.00	0.283	0.283	1.00
18	14:33	1.00	0.809	1.00	200.00	200.00	0.533	0.533	1.00
19	15:05	1.01	0.839	1.00	200.00	200.00	0.380	0.380	1.00
20	15:45	1.01	0.876	1.00	200.00	200.00	0.422	0.422	1.00
21	15:51	1.00	0.881	1.00	200.00	200.00	0.276	0.276	1.00
22	15:30	1.00	0.862	1.00	200.00	200.00	0.676	0.676	1.00
23	15:47	1.01	0.878	1.00	200.00	200.00	0.230	0.230	1.00
24	16:47	1.01	0.934	1.00	200.00	200.00	0.175	0.175	1.00
25	18:20	1.01	1.019	1.00	200.00	200.00	0.368	0.368	1.00
26	20:30	1.00	0.907	1.00	200.00	200.00	0.421	0.421	1.00
27	20:32	1.00	0.908	1.00	200.00	200.00	0.569	0.569	1.00
28	21:38	1.00	0.957	1.00	200.00	200.00	0.589	0.589	1.00
29	22:44	1.00	1.006	1.00	200.00	200.00	0.820	0.820	1.00
30	24:27	1.00	1.082	1.00	200.00	200.00	0.369	0.369	1.00
31	27:27	1.00	1.214	1.00	200.00	200.00	0.011	0.011	1.00
32	28:04	1.00	1.242	1.00	200.00	200.00	0.439	0.439	1.00
33	10:47	1.01	1.324	1.01	50.00	50.00	1.622	1.622	1.00
34	21:26	1.00	0.949	1.00	50.00	50.00	0.900	0.900	1.00
35	26:19	1.00	1.164	1.00	50.00	50.00	0.816	0.816	1.00

CALIBRATION CURVE

VOLATILE ORGANICS

6F

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Instrument ID: 5100B Calibration Date(s): 08/18/87 08/19/87

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

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

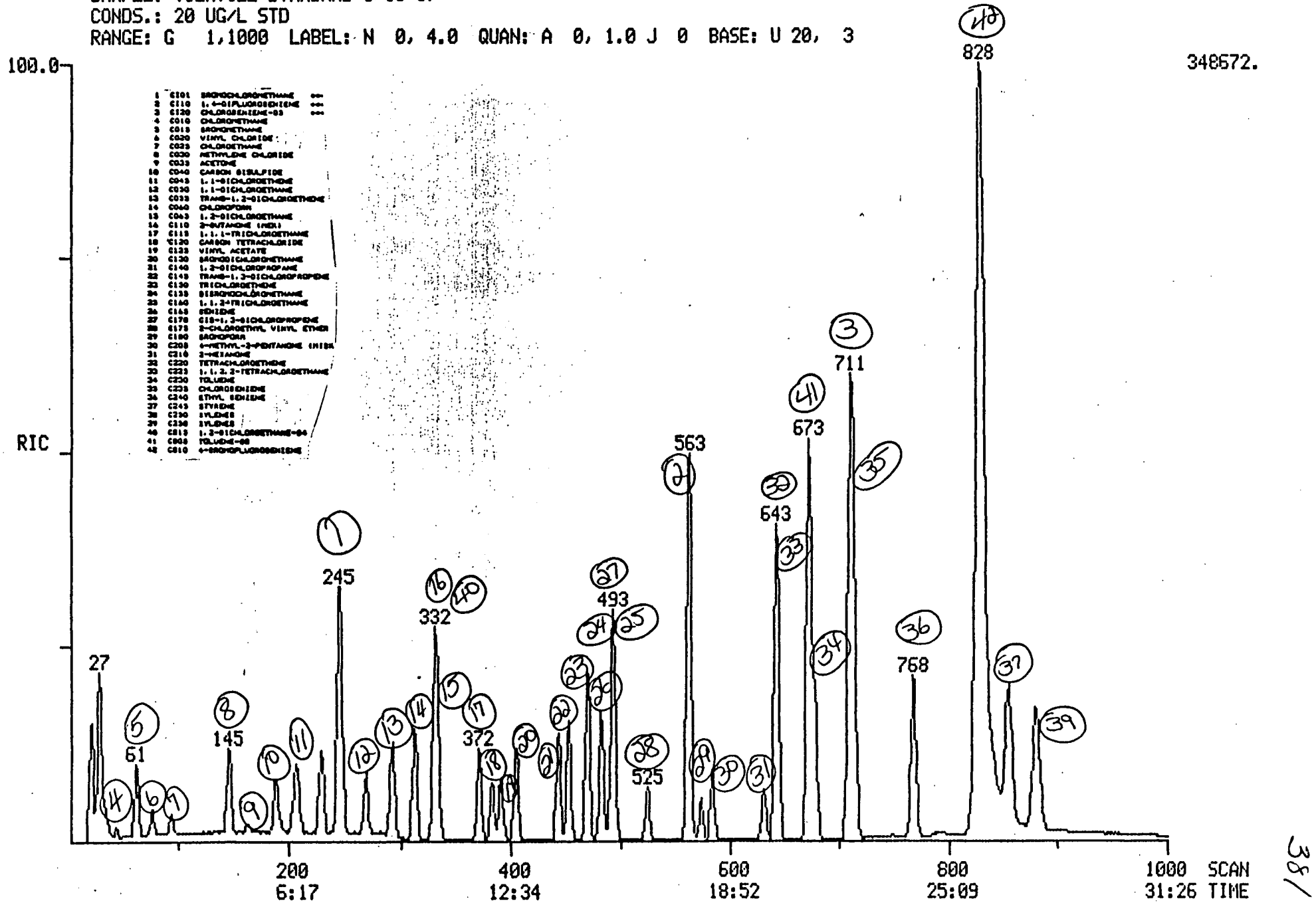
LAB FILE ID: RRF20 = V0818B2A RRF50 = V0818B5A
RRF100= V0818B10A RRF150= V0818B15A RRF200= V0818B20A

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.277	0.658	0.546	0.726	1.544	0.750	63.4#
Bromomethane	1.446	1.406	1.336	1.252	1.511	1.390	7.2
Vinyl Chloride *	1.043	1.312	1.205	1.223	1.448	1.247	11.9*
Chloroethane	0.747	0.813	0.830	0.858	0.930	0.836	8.0
Methylene Chloride	1.197	1.190	1.247	1.260	1.252	1.229	2.7
Acetone	0.477	0.443	0.315	0.352	0.277	0.373	22.7
Carbon Disulfide	3.144	3.284	3.611	3.703	3.656	3.480	7.2
1,1-Dichloroethene *	1.163	1.142	1.238	1.262	1.246	1.210	4.5*
1,1-Dichloroethane #	2.374	2.324	2.594	2.576	2.419	2.457	4.9#
1,2-Dichloroethene (total)	1.426	1.243	1.373	1.606	1.344	1.398	9.6
Chloroform *	2.978	3.003	3.199	3.140	3.070	3.078	3.0*
1,2-Dichloroethane	1.931	2.029	1.993	2.013	1.904	1.974	2.7
2-Butanone	0.163	0.174	0.130	0.138	0.110	0.143	18.0
1,1,1-Trichloroethane	0.429	0.449	0.473	0.477	0.479	0.461	4.7
Carbon Tetrachloride	0.245	0.289	0.334	0.346	0.348	0.312	14.3
Vinyl Acetate	0.636	0.702	0.725	0.719	0.644	0.685	6.2
Bromodichloromethane	0.456	0.513	0.556	0.561	0.561	0.529	8.6
1,2-Dichloropropane *	0.325	0.319	0.349	0.349	0.334	0.335	4.1*
cis-1,3-Dichloropropene	0.231	0.244	0.270	0.280	0.270	0.259	7.9
Trichloroethene	0.442	0.434	0.440	0.439	0.415	0.434	2.5
Dibromochloromethane	0.315	0.385	0.411	0.426	0.413	0.390	11.4
1,1,2-Trichloroethane	0.334	0.325	0.333	0.332	0.303	0.325	4.0
Benzene	0.800	0.776	0.826	0.821	0.789	0.802	2.6
Trans-1,3-Dichloropropene	0.541	0.564	0.620	0.633	0.623	0.596	6.9
2-Chloroethylvinylether	0.183	0.202	0.198	0.220	0.183	0.197	7.8
Bromoform #	0.196	0.288	0.299	0.333	0.317	0.287	18.6#
4-Methyl-2-Pentanone	0.539	0.545	0.460	0.515	0.412	0.494	11.5
2-Hexanone	0.443	0.419	0.306	0.380	0.322	0.374	15.9
Tetrachloroethene	0.526	0.505	0.514	0.511	0.497	0.511	2.1
1,1,2,2-Tetrachloroethane #	0.729	0.756	0.677	0.724	0.636	0.704	6.8#
Toluene *	0.724	0.710	0.727	0.737	0.723	0.724	1.3*
Chlorobenzene #	0.989	0.974	1.021	1.032	1.014	1.006	2.4#
Ethylbenzene *	0.448	0.436	0.465	0.461	0.460	0.454	2.6*
Styrene	1.034	0.976	1.040	1.068	1.073	1.038	3.7
Total Xylenes	0.610	0.574	0.608	0.626	0.625	0.609	3.5
Toluene-d8	1.131	1.123	1.134	1.154	1.143	1.137	1.0
BFB	0.972	0.929	0.951	1.003	0.997	0.970	3.2
1,2-Dichloroethane-d4	1.704	1.749	1.861	1.936	1.995	1.849	6.6

MIDRIC
08/18/87 10:38:00
SAMPLE: VOLATILE STANDARD 8/18/87
CONDS.: 20 UG/L STD
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V0818B2A #1
CALI: V0818B2A #2

SCANS 1 TO 1000



ACQUISITION STARTED: ANALYSIS NO. 1 RACK NO. 15 VIAL NO. 25
FREE SECTORS: 20231 FILENAME: 14591V1
Quantitation Report File: V0818B2A

Data: V0818B2A.TI
08/18/87 10:38:00
Sample: VOLATILE STANDARD 8/18/87
Conds.: 20 UG/L STD
Submitted by: AK Analyst: PAA

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

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

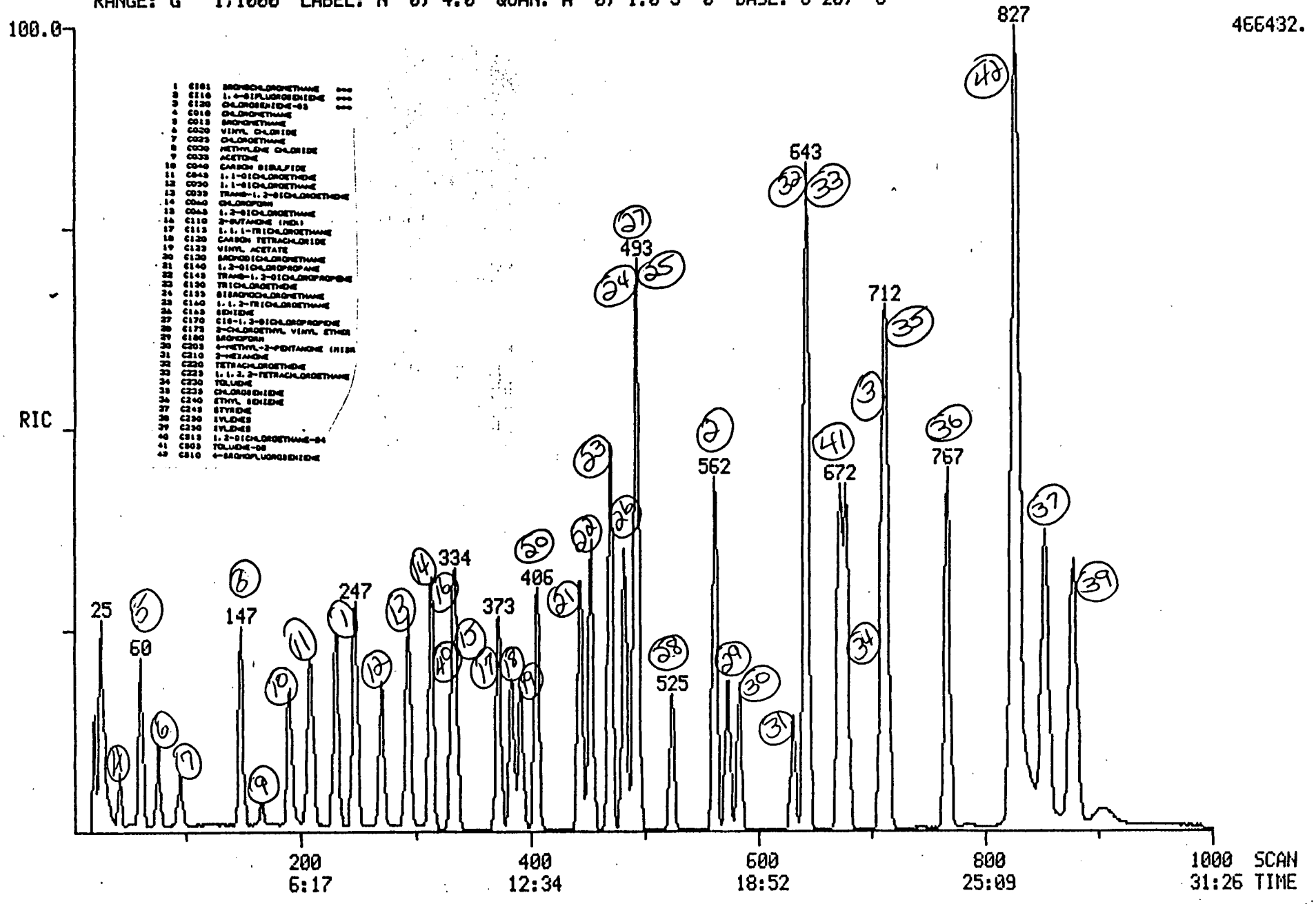
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	245	7:42	1	1.000	A BB	85226.	50.000	UG/L	5.00
2	114	562	17:40	2	1.000	A BB	433302.	50.000	UG/L	5.00
3	117	711	22:21	3	1.000	A BB	336158.	50.000	UG/L	5.00
4	50	43	1:21	1	0.176	M XX	9428.	20.000	UG/L	2.00
5	94	61	1:55	1	0.249	M XX	49294.	20.000	UG/L	2.00
6	62	76	2:23	1	0.310	A BB	35560.	20.000	UG/L	2.00
7	64	93	2:55	1	0.380	A BB	25453.	20.000	UG/L	2.00
8	84	145	4:33	1	0.592	A BB	40804.	20.000	UG/L	2.00
9	43	163	5:07	1	0.665	A BB	16246.	20.000	UG/L	2.00
10	76	188	5:55	1	0.767	A BB	107195.	20.000	UG/L	2.00
11	96	229	7:12	1	0.935	A BB	39648.	20.000	UG/L	2.00
12	63	269	8:27	1	1.098	A BB	80946.	20.000	UG/L	2.00
13	96	293	9:13	1	1.196	A BB	48619.	20.000	UG/L	2.00
14	83	313	9:50	1	1.278	A BB	101524.	20.000	UG/L	2.00
15	62	335	10:32	1	1.367	A BB	65822.	20.000	UG/L	2.00
16	43	332	10:26	2	0.591	A BB	28183.	20.000	UG/L	2.00
17	97	372	11:42	2	0.662	A BB	74432.	20.000	UG/L	2.00
18	117	384	12:04	2	0.683	A BB	42398.	20.000	UG/L	2.00
19	43	392	12:19	2	0.698	A BB	110302.	20.000	UG/L	2.00
20	83	406	12:46	2	0.722	A BB	79072.	20.000	UG/L	2.00
21	63	444	13:57	2	0.790	A BB	56406.	20.000	UG/L	2.00
22	75	453	14:14	2	0.806	A BB	93780.	20.000	UG/L	2.00
23	130	470	14:46	2	0.836	A BB	76674.	20.000	UG/L	2.00
24	129	492	15:28	2	0.875	A BB	54664.	20.000	UG/L	2.00
25	97	494	15:32	2	0.879	A BB	57837.	20.000	UG/L	2.00
26	78	483	15:11	2	0.859	A BB	138602.	20.000	UG/L	2.00
27	75	493	15:30	2	0.877	A BB	39966.	20.000	UG/L	2.00
28	63	525	16:30	2	0.934	A BB	31757.	20.000	UG/L	2.00
29	173	574	18:03	2	1.021	A BB	33981.	20.000	UG/L	2.00
30	43	584	18:21	3	0.821	A BB	72517.	20.000	UG/L	2.00
31	43	632	19:52	3	0.889	A BB	59550.	20.000	UG/L	2.00
32	164	643	20:13	3	0.904	A BB	70696.	20.000	UG/L	2.00
33	83	644	20:15	3	0.906	A BB	98082.	20.000	UG/L	2.00
34	92	679	21:21	3	0.955	A BB	97350.	20.000	UG/L	2.00
35	112	714	22:27	3	1.004	A BB	133017.	20.000	UG/L	2.00
36	106	768	24:09	3	1.080	A BB	60191.	20.000	UG/L	2.00
37	104	856	26:55	3	1.204	A BB	139008.	20.000	UG/L	2.00
38	NOT	FOUND								
39	106	881	27:42	3	1.239	A BB	82072.	20.000	UG/L	2.00
40	65	332	10:26	1	1.355	A BB	145260.	50.000	UG/L	5.00
41	98	673	21:09	3	0.947	A BB	380354.	50.000	UG/L	5.00
42	95	828	26:02	3	1.165	A BB	326776.	50.000	UG/L	5.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:21	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:21	1.00	0.176	1.00	20.00	20.00	0.277	0.277	1.00
5	1:55	1.00	0.249	1.00	20.00	20.00	1.446	1.446	1.00
6	2:23	1.00	0.310	1.00	20.00	20.00	1.043	1.043	1.00
7	2:55	1.00	0.380	1.00	20.00	20.00	0.747	0.747	1.00
8	4:33	1.00	0.592	1.00	20.00	20.00	1.197	1.197	1.00
9	5:07	1.00	0.665	1.00	20.00	20.00	0.477	0.477	1.00
10	5:55	1.00	0.767	1.00	20.00	20.00	3.144	3.144	1.00
11	7:12	1.00	0.935	1.00	20.00	20.00	1.163	1.163	1.00
12	8:27	1.00	1.098	1.00	20.00	20.00	2.374	2.374	1.00
13	9:13	1.00	1.196	1.00	20.00	20.00	1.426	1.426	1.00
14	9:50	1.00	1.278	1.00	20.00	20.00	2.978	2.978	1.00
15	10:32	1.00	1.367	1.00	20.00	20.00	1.931	1.931	1.00
16	10:26	1.00	0.591	1.00	20.00	20.00	0.163	0.163	1.00
17	11:42	1.00	0.662	1.00	20.00	20.00	0.429	0.429	1.00
18	12:04	1.00	0.683	1.00	20.00	20.00	0.245	0.245	1.00
19	12:19	1.00	0.698	1.00	20.00	20.00	0.636	0.636	1.00
20	12:46	1.00	0.722	1.00	20.00	20.00	0.456	0.456	1.00
21	13:57	1.00	0.790	1.00	20.00	20.00	0.325	0.325	1.00
22	14:14	1.00	0.806	1.00	20.00	20.00	0.541	0.541	1.00
23	14:46	1.00	0.836	1.00	20.00	20.00	0.442	0.442	1.00
24	15:28	1.00	0.875	1.00	20.00	20.00	0.315	0.315	1.00
25	15:32	1.00	0.879	1.00	20.00	20.00	0.334	0.334	1.00
26	15:11	1.00	0.859	1.00	20.00	20.00	0.800	0.800	1.00
27	15:30	1.00	0.877	1.00	20.00	20.00	0.231	0.231	1.00
28	16:30	1.00	0.934	1.00	20.00	20.00	0.183	0.183	1.00
29	18:03	1.00	1.021	1.00	20.00	20.00	0.196	0.196	1.00
30	18:21	1.00	0.821	1.00	20.00	20.00	0.539	0.539	1.00
31	19:52	1.00	0.889	1.00	20.00	20.00	0.443	0.443	1.00
32	20:13	1.00	0.904	1.00	20.00	20.00	0.526	0.526	1.00
33	20:15	1.00	0.906	1.00	20.00	20.00	0.729	0.729	1.00
34	21:21	1.00	0.955	1.00	20.00	20.00	0.724	0.724	1.00
35	22:27	1.00	1.004	1.00	20.00	20.00	0.989	0.989	1.00
36	24:09	1.00	1.080	1.00	20.00	20.00	0.448	0.448	1.00
37	26:55	1.00	1.204	1.00	20.00	20.00	1.034	1.034	1.00
38	27:02		1.210			100.00		0.011	
39	27:42	1.00	1.239	1.00	20.00	20.00	0.610	0.610	1.00
40	10:26	1.00	1.355	1.00	50.00	50.00	1.704	1.704	1.00
41	21:09	1.00	0.947	1.00	50.00	50.00	1.131	1.131	1.00
42	26:02	1.00	1.165	1.00	50.00	50.00	0.972	0.972	1.00

MIDRIC
08/18/87 8:52:00
SAMPLE: VOLATILE STANDARD 8/18/87
CONDS.: 50 UG/L STD
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V0818B5A #1
CALI: V0818B5A #2

SCANS 1 TO 1000



Quantitation Report File: V0818B5A

Data: V0818B5A.TI
08/18/87 8:52:00
Sample: VOLATILE STANDARD 8/18/87
Conds.: 50 UG/L STD
Submitted by: AK Analyst: PAA

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

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

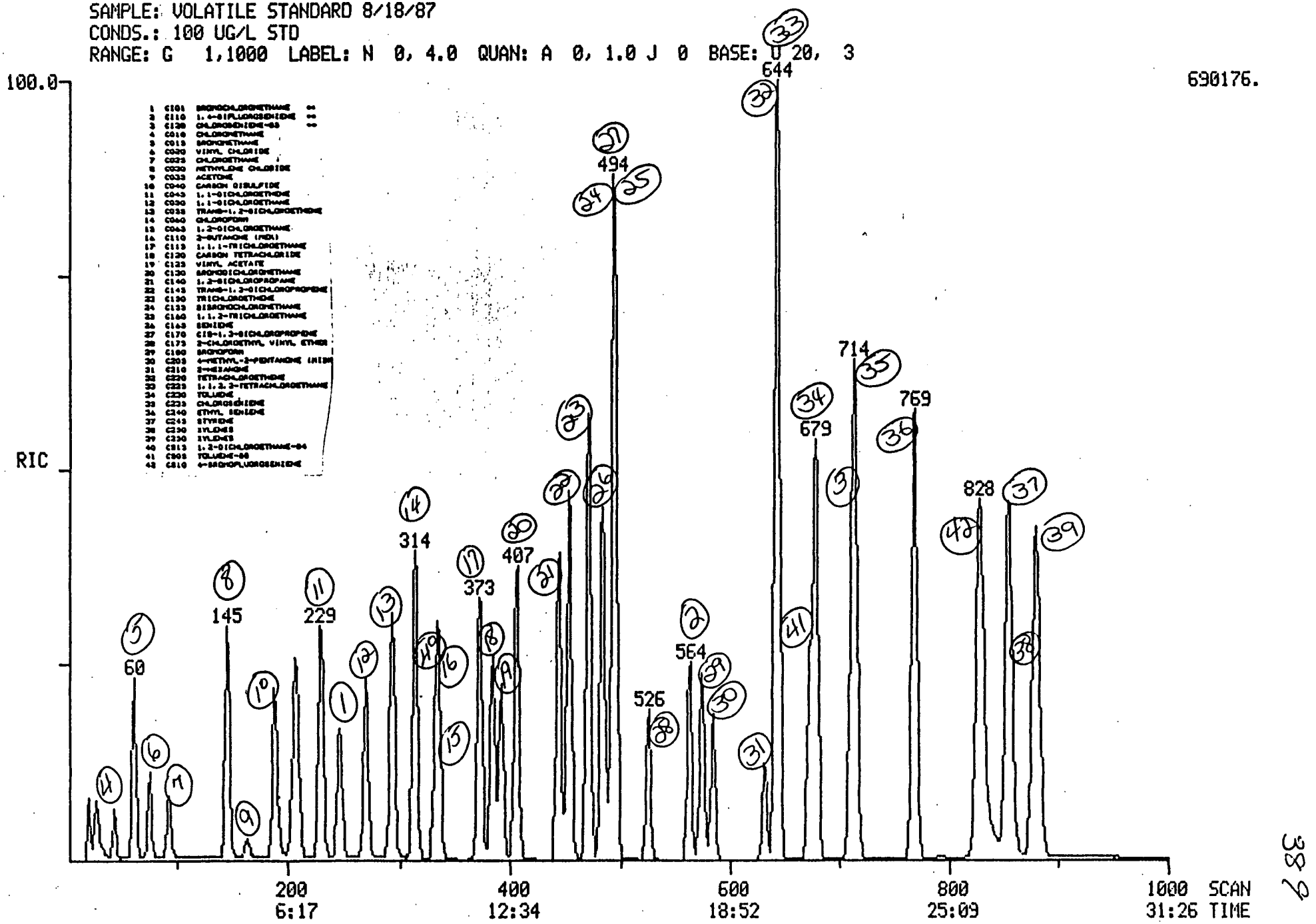
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	246	7:44	1	1.000	A BB	100932.	50.000 UG/L	2.44
2	114	562	17:40	2	1.000	A BB	497763.	50.000 UG/L	2.44
3	117	710	22:19	3	1.000	A BB	374613.	50.000 UG/L	2.44
4	50	42	1:19	1	0.171	A BB	66390.	50.000 UG/L	2.44
5	94	60	1:53	1	0.244	A BB	141924.	50.000 UG/L	2.44
6	62	75	2:21	1	0.305	A BB	132417.	50.000 UG/L	2.44
7	64	94	2:57	1	0.382	A BB	82103.	50.000 UG/L	2.44
8	84	147	4:37	1	0.598	A BB	120080.	50.000 UG/L	2.44
9	43	165	5:11	1	0.671	A BB	44725.	50.000 UG/L	2.44
10	76	190	5:58	1	0.772	A BB	331511.	50.000 UG/L	2.44
11	96	230	7:14	1	0.935	A BB	115312.	50.000 UG/L	2.44
12	63	270	8:29	1	1.098	A BB	234521.	50.000 UG/L	2.44
13	96	293	9:13	1	1.191	A BB	125443.	50.000 UG/L	2.44
14	83	314	9:52	1	1.276	A BB	303076.	50.000 UG/L	2.44
15	62	336	10:34	1	1.366	A BB	204757.	50.000 UG/L	2.44
16	43	333	10:28	2	0.593	A BB	86654.	50.000 UG/L	2.44
17	97	372	11:42	2	0.662	A BB	223306.	50.000 UG/L	2.44
18	117	384	12:04	2	0.683	A BB	143679.	50.000 UG/L	2.44
19	43	392	12:19	2	0.698	A BB	349269.	50.000 UG/L	2.44
20	83	406	12:46	2	0.722	A BB	255414.	50.000 UG/L	2.44
21	63	443	13:56	2	0.788	A BB	158668.	50.000 UG/L	2.44
22	75	453	14:14	2	0.806	A BB	280730.	50.000 UG/L	2.44
23	130	470	14:46	2	0.836	A BB	216068.	50.000 UG/L	2.44
24	129	492	15:28	2	0.875	A BB	191760.	50.000 UG/L	2.44
25	97	494	15:32	2	0.879	A BB	161534.	50.000 UG/L	2.44
26	78	483	15:11	2	0.859	A BB	386034.	50.000 UG/L	2.44
27	75	493	15:30	2	0.877	A BB	121458.	50.000 UG/L	2.44
28	63	525	16:30	2	0.934	A BB	100440.	50.000 UG/L	2.44
29	173	573	18:01	2	1.020	A BB	143315.	50.000 UG/L	2.44
30	43	584	18:21	3	0.823	A BB	204284.	50.000 UG/L	2.44
31	43	631	19:50	3	0.889	A BB	157003.	50.000 UG/L	2.44
32	164	642	20:11	3	0.904	A BB	189363.	50.000 UG/L	2.44
33	83	644	20:15	3	0.907	A BB	283352.	50.000 UG/L	2.44
34	92	678	21:19	3	0.955	A BB	266077.	50.000 UG/L	2.44
35	112	713	22:25	3	1.004	A BB	364984.	50.000 UG/L	2.44
36	106	767	24:07	3	1.080	A BB	163258.	50.000 UG/L	2.44
37	104	853	26:49	3	1.201	A BB	365578.	50.000 UG/L	2.44
38	NOT	FOUND							
39	106	878	27:36	3	1.237	A BB	214895.	50.000 UG/L	2.44
40	65	332	10:26	1	1.350	A BB	176484.	50.000 UG/L	2.44
41	98	672	21:07	3	0.946	A BB	420530.	50.000 UG/L	2.44
42	95	825	25:56	3	1.162	A BB	348012.	50.000 UG/L	2.44

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:44	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:19	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19	1.00	0.171	1.00	50.00	50.00	0.658	0.658	1.00
5	1:53	1.00	0.244	1.00	50.00	50.00	1.406	1.406	1.00
6	2:21	1.00	0.305	1.00	50.00	50.00	1.312	1.312	1.00
7	2:57	1.00	0.382	1.00	50.00	50.00	0.813	0.813	1.00
8	4:37	1.00	0.598	1.00	50.00	50.00	1.190	1.190	1.00
9	5:11	1.00	0.671	1.00	50.00	50.00	0.443	0.443	1.00
10	5:58	1.00	0.772	1.00	50.00	50.00	3.284	3.284	1.00
11	7:14	1.00	0.935	1.00	50.00	50.00	1.142	1.142	1.00
12	8:29	1.00	1.098	1.00	50.00	50.00	2.324	2.324	1.00
13	9:13	1.00	1.191	1.00	50.00	50.00	1.243	1.243	1.00
14	9:52	1.00	1.276	1.00	50.00	50.00	3.003	3.003	1.00
15	10:34	1.00	1.366	1.00	50.00	50.00	2.029	2.029	1.00
16	10:28	1.00	0.593	1.00	50.00	50.00	0.174	0.174	1.00
17	11:42	1.00	0.662	1.00	50.00	50.00	0.449	0.449	1.00
18	12:04	1.00	0.683	1.00	50.00	50.00	0.289	0.289	1.00
19	12:19	1.00	0.698	1.00	50.00	50.00	0.702	0.702	1.00
20	12:46	1.00	0.722	1.00	50.00	50.00	0.513	0.513	1.00
21	13:56	1.00	0.788	1.00	50.00	50.00	0.319	0.319	1.00
22	14:14	1.00	0.806	1.00	50.00	50.00	0.564	0.564	1.00
23	14:46	1.00	0.836	1.00	50.00	50.00	0.434	0.434	1.00
24	15:28	1.00	0.875	1.00	50.00	50.00	0.385	0.385	1.00
25	15:32	1.00	0.879	1.00	50.00	50.00	0.325	0.325	1.00
26	15:11	1.00	0.859	1.00	50.00	50.00	0.776	0.776	1.00
27	15:30	1.00	0.877	1.00	50.00	50.00	0.244	0.244	1.00
28	16:30	1.00	0.934	1.00	50.00	50.00	0.202	0.202	1.00
29	18:01	1.00	1.020	1.00	50.00	50.00	0.288	0.288	1.00
30	18:21	1.00	0.823	1.00	50.00	50.00	0.545	0.545	1.00
31	19:50	1.00	0.889	1.00	50.00	50.00	0.419	0.419	1.00
32	20:11	1.00	0.904	1.00	50.00	50.00	0.505	0.505	1.00
33	20:15	1.00	0.907	1.00	50.00	50.00	0.756	0.756	1.00
34	21:19	1.00	0.955	1.00	50.00	50.00	0.710	0.710	1.00
35	22:25	1.00	1.004	1.00	50.00	50.00	0.974	0.974	1.00
36	24:07	1.00	1.080	1.00	50.00	50.00	0.436	0.436	1.00
37	26:49	1.00	1.201	1.00	50.00	50.00	0.976	0.976	1.00
38	27:02		1.210			100.00		0.011	
39	27:36	1.00	1.237	1.00	50.00	50.00	0.574	0.574	1.00
40	10:26	1.00	1.350	1.00	50.00	50.00	1.749	1.749	1.00
41	21:07	1.00	0.946	1.00	50.00	50.00	1.123	1.123	1.00
42	25:56	1.00	1.162	1.00	50.00	50.00	0.929	0.929	1.00

MIDRIC
08/18/87 12:00:00
SAMPLE: VOLATILE STANDARD 8/18/87
CONDS.: 100 UG/L STD
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V0818B10A #1
CALI: V0818B10A #2

SCANS 1 TO 1000



38 of

Quantitation Report File: V0818B10A

Data: V0818B10A.TI
08/18/87 12:00:00
Sample: VOLATILE STANDARD 8/18/87
Conds.: 100 UG/L STD
Submitted by: AK Analyst: PAA

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

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

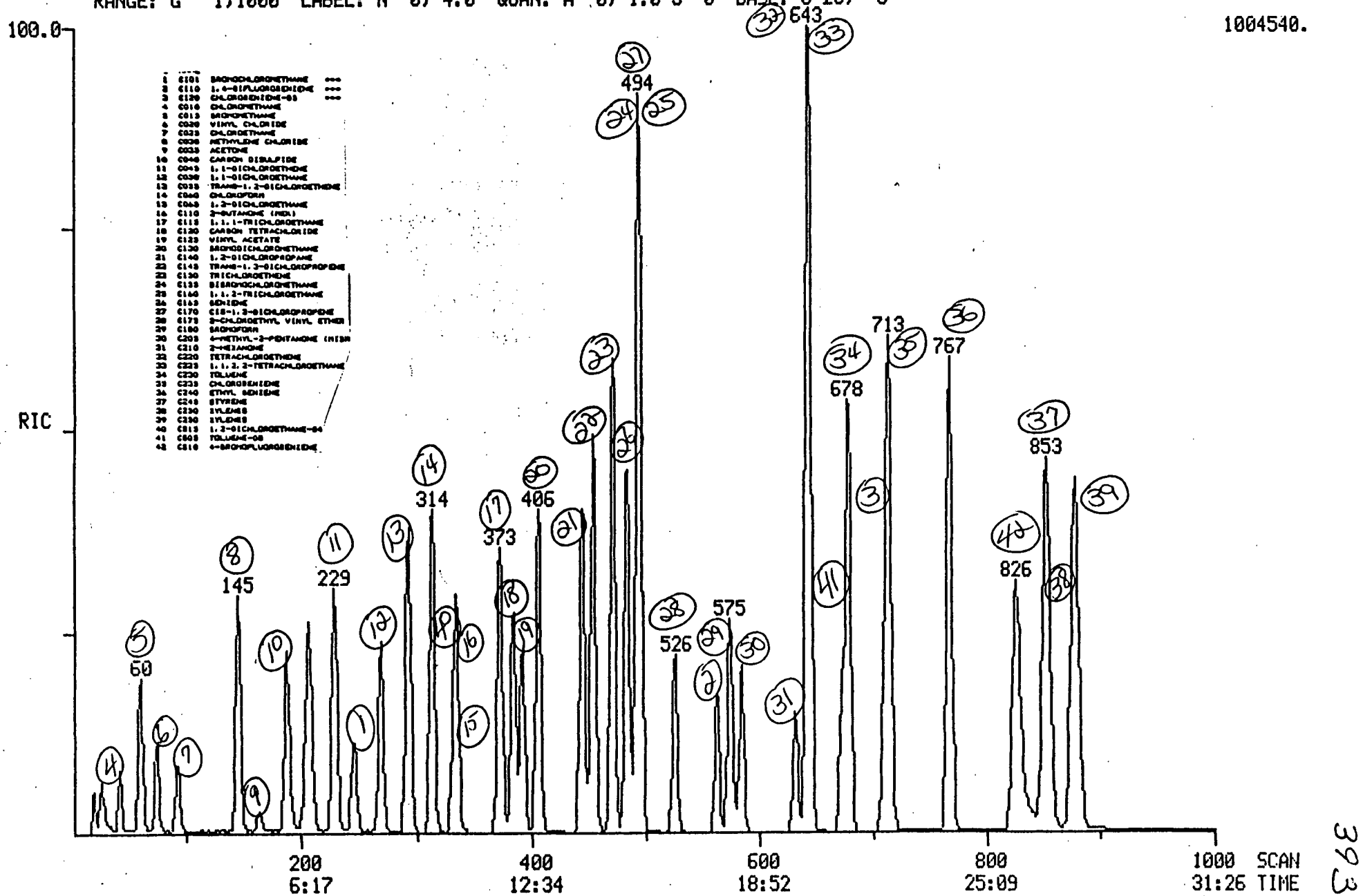
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	246	7:44	1	1.000	A BB	86237.	50.000	UG/L	1.28
2	114	564	17:44	2	1.000	A BB	429826.	50.000	UG/L	1.28
3	117	711	22:21	3	1.000	A BB	332788.	50.000	UG/L	1.28
4	50	42	1:19	1	0.171	M XX	94213.	100.000	UG/L	2.56
5	94	60	1:53	1	0.244	A BB	230508.	100.000	UG/L	2.56
6	62	74	2:20	1	0.301	A BB	207800.	100.000	UG/L	2.56
7	64	92	2:54	1	0.374	A BB	143172.	100.000	UG/L	2.56
8	84	145	4:33	1	0.589	A BB	214998.	100.000	UG/L	2.56
9	43	163	5:07	1	0.663	A BB	54292.	100.000	UG/L	2.56
10	76	188	5:55	1	0.764	A BB	622720.	100.000	UG/L	2.56
11	96	229	7:12	1	0.931	A BB	213592.	100.000	UG/L	2.56
12	63	269	8:27	1	1.093	A BB	447378.	100.000	UG/L	2.56
13	96	293	9:13	1	1.191	A BB	236858.	100.000	UG/L	2.56
14	83	314	9:52	1	1.276	A BB	551715.	100.000	UG/L	2.56
15	62	336	10:34	1	1.366	A BB	343697.	100.000	UG/L	2.56
16	43	333	10:28	2	0.590	A BB	111837.	100.000	UG/L	2.56
17	97	373	11:44	2	0.661	A BB	406371.	100.000	UG/L	2.56
18	117	385	12:06	2	0.683	A VB	287120.	100.000	UG/L	2.56
19	43	393	12:21	2	0.697	A BB	622825.	100.000	UG/L	2.56
20	83	407	12:48	2	0.722	A BB	478058.	100.000	UG/L	2.56
21	63	445	13:59	2	0.789	A BB	300247.	100.000	UG/L	2.56
22	75	454	14:16	2	0.805	A VB	532678.	100.000	UG/L	2.56
23	130	471	14:48	2	0.835	A BB	378192.	100.000	UG/L	2.56
24	129	493	15:30	2	0.874	A BB	353423.	100.000	UG/L	2.56
25	97	495	15:34	2	0.878	A BB	285900.	100.000	UG/L	2.56
26	78	484	15:13	2	0.858	A BB	709801.	100.000	UG/L	2.56
27	75	494	15:32	2	0.876	A VB	231980.	100.000	UG/L	2.56
28	63	527	16:34	2	0.934	A BB	170094.	100.000	UG/L	2.56
29	173	575	18:05	2	1.020	A BB	257044.	100.000	UG/L	2.56
30	43	585	18:23	3	0.823	A BB	306169.	100.000	UG/L	2.56
31	43	632	19:52	3	0.889	A BB	203335.	100.000	UG/L	2.56
32	164	643	20:13	3	0.904	A BB	342349.	100.000	UG/L	2.56
33	83	644	20:15	3	0.906	A BB	450410.	100.000	UG/L	2.56
34	92	679	21:21	3	0.955	A BB	483826.	100.000	UG/L	2.56
35	112	715	22:29	3	1.006	A BB	679421.	100.000	UG/L	2.56
36	106	768	24:09	3	1.080	A BB	309412.	100.000	UG/L	2.56
37	104	855	26:53	3	1.203	A BB	691978.	100.000	UG/L	2.56
38	106	860	27:02	3	1.210	A BB	7172.	100.000	UG/L	2.56
39	106	880	27:40	3	1.238	A BB	404798.	100.000	UG/L	2.56
40	65	332	10:26	1	1.350	A BB	160466.	50.000	UG/L	1.28
41	98	673	21:09	3	0.947	A BB	377410.	50.000	UG/L	1.28
42	95	827	26:00	3	1.163	A BB	316336.	50.000	UG/L	1.28

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:44	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:44	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:21	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19	1.00	0.171	1.00	100.00	100.00	0.546	0.546	1.00
5	1:53	1.00	0.244	1.00	100.00	100.00	1.336	1.336	1.00
6	2:20	1.00	0.301	1.00	100.00	100.00	1.205	1.205	1.00
7	2:54	1.00	0.374	1.00	100.00	100.00	0.830	0.830	1.00
8	4:33	1.00	0.589	1.00	100.00	100.00	1.247	1.247	1.00
9	5:07	1.00	0.663	1.00	100.00	100.00	0.315	0.315	1.00
10	5:55	1.00	0.764	1.00	100.00	100.00	3.611	3.611	1.00
11	7:12	1.00	0.931	1.00	100.00	100.00	1.238	1.238	1.00
12	8:27	1.00	1.093	1.00	100.00	100.00	2.594	2.594	1.00
13	9:13	1.00	1.191	1.00	100.00	100.00	1.373	1.373	1.00
14	9:52	1.00	1.276	1.00	100.00	100.00	3.199	3.199	1.00
15	10:34	1.00	1.366	1.00	100.00	100.00	1.993	1.993	1.00
16	10:28	1.00	0.590	1.00	100.00	100.00	0.130	0.130	1.00
17	11:44	1.00	0.661	1.00	100.00	100.00	0.473	0.473	1.00
18	12:06	1.00	0.683	1.00	100.00	100.00	0.334	0.334	1.00
19	12:21	1.00	0.697	1.00	100.00	100.00	0.725	0.725	1.00
20	12:48	1.00	0.722	1.00	100.00	100.00	0.556	0.556	1.00
21	13:59	1.00	0.789	1.00	100.00	100.00	0.349	0.349	1.00
22	14:16	1.00	0.805	1.00	100.00	100.00	0.620	0.620	1.00
23	14:48	1.00	0.835	1.00	100.00	100.00	0.440	0.440	1.00
24	15:30	1.00	0.874	1.00	100.00	100.00	0.411	0.411	1.00
25	15:34	1.00	0.878	1.00	100.00	100.00	0.333	0.333	1.00
26	15:13	1.00	0.858	1.00	100.00	100.00	0.826	0.826	1.00
27	15:32	1.00	0.876	1.00	100.00	100.00	0.270	0.270	1.00
28	16:34	1.00	0.934	1.00	100.00	100.00	0.198	0.198	1.00
29	18:05	1.00	1.020	1.00	100.00	100.00	0.299	0.299	1.00
30	18:23	1.00	0.823	1.00	100.00	100.00	0.460	0.460	1.00
31	19:52	1.00	0.889	1.00	100.00	100.00	0.306	0.306	1.00
32	20:13	1.00	0.904	1.00	100.00	100.00	0.514	0.514	1.00
33	20:15	1.00	0.906	1.00	100.00	100.00	0.677	0.677	1.00
34	21:21	1.00	0.955	1.00	100.00	100.00	0.727	0.727	1.00
35	22:29	1.00	1.006	1.00	100.00	100.00	1.021	1.021	1.00
36	24:09	1.00	1.080	1.00	100.00	100.00	0.465	0.465	1.00
37	26:53	1.00	1.203	1.00	100.00	100.00	1.040	1.040	1.00
38	27:02	1.00	1.210	1.00	100.00	100.00	0.011	0.011	1.00
39	27:40	1.00	1.238	1.00	100.00	100.00	0.608	0.608	1.00
40	10:26	1.00	1.350	1.00	50.00	50.00	1.861	1.861	1.00
41	21:09	1.00	0.947	1.00	50.00	50.00	1.134	1.134	1.00
42	26:00	1.00	1.163	1.00	50.00	50.00	0.951	0.951	1.00

MIDRIC
08/18/87 11:19:00
SAMPLE: VOLATILE STANDARD 8/18/87
CONDS.: 150 UG/L STD
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V0818B15A #1
CALI: V0818B15A #2

SCANS 1 TO 1000



393

Quantitation Report File: V0818B15A

Data: V0818B15A.TI
08/18/87 11:19:00
Sample: VOLATILE STANDARD 8/18/87
Conds.: 150 UG/L STD
Submitted by: AK Analyst: PAA

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

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

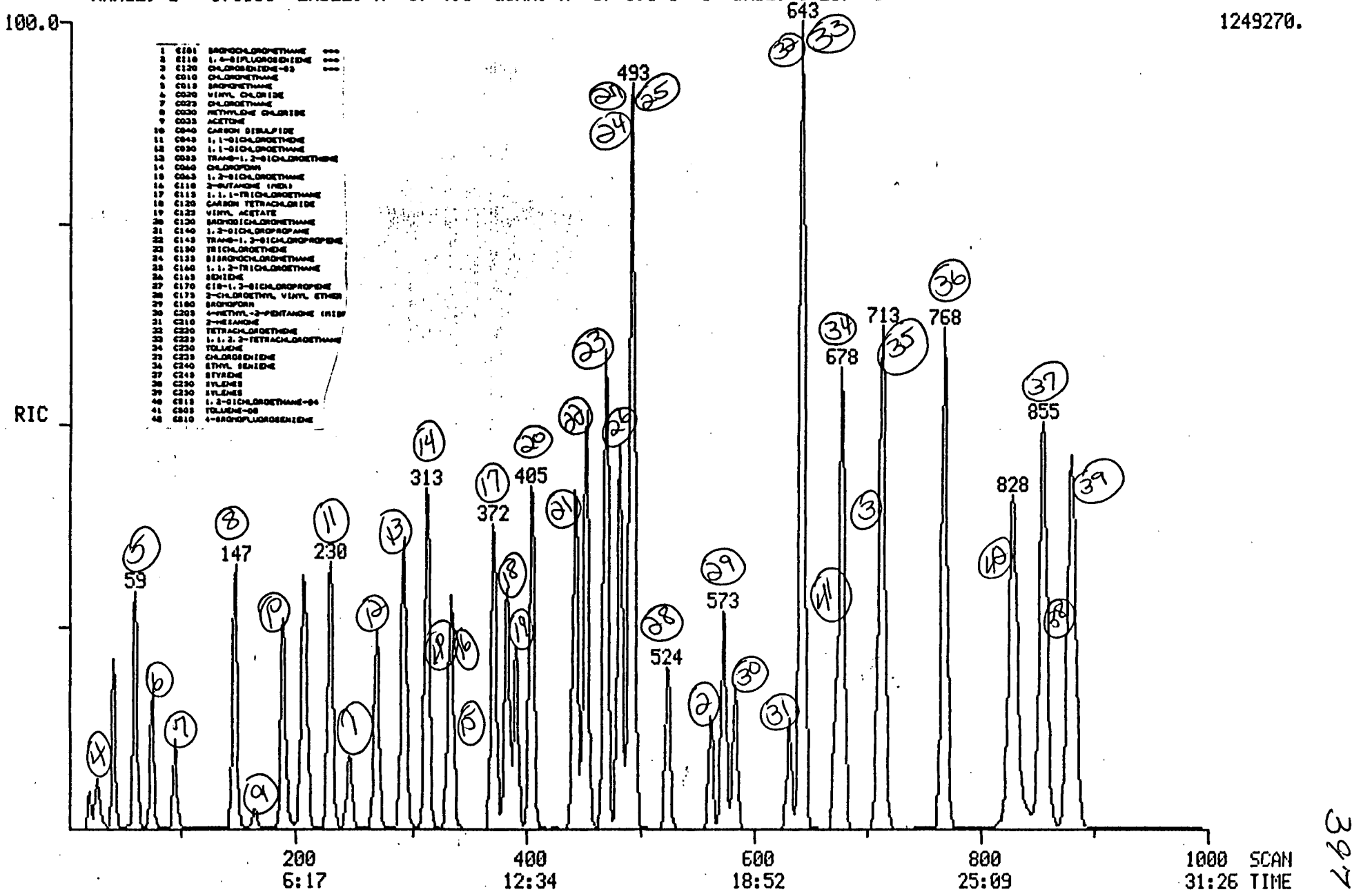
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	245	7:42	1	1.000	A BB	83978.	50.000	UG/L	0.90
2	114	563	17:42	2	1.000	A BB	428962.	50.000	UG/L	0.90
3	117	710	22:19	3	1.000	A BB	320546.	50.000	UG/L	0.90
4	50	42	1:19	1	0.171	M XX	182894.	150.000	UG/L	2.70
5	94	60	1:53	1	0.245	A BB	315469.	150.000	UG/L	2.70
6	62	74	2:20	1	0.302	A BB	308667.	150.000	UG/L	2.70
7	64	91	2:52	1	0.371	A BB	216132.	150.000	UG/L	2.70
8	84	145	4:33	1	0.592	A BB	317427.	150.000	UG/L	2.70
9	43	163	5:07	1	0.665	A BB	88789.	150.000	UG/L	2.70
10	76	187	5:53	1	0.763	A BB	933011.	150.000	UG/L	2.70
11	96	229	7:12	1	0.935	A BB	317854.	150.000	UG/L	2.70
12	63	269	8:27	1	1.098	A BB	648912.	150.000	UG/L	2.70
13	96	293	9:13	1	1.196	A BB	404683.	150.000	UG/L	2.70
14	83	314	9:52	1	1.282	A BB	791142.	150.000	UG/L	2.70
15	62	336	10:34	1	1.371	A BB	507151.	150.000	UG/L	2.70
16	43	333	10:28	2	0.591	A BB	177473.	150.000	UG/L	2.70
17	97	373	11:44	2	0.663	A BB	613952.	150.000	UG/L	2.70
18	117	385	12:06	2	0.684	A VB	445652.	150.000	UG/L	2.70
19	43	393	12:21	2	0.698	A BB	924708.	150.000	UG/L	2.70
20	83	406	12:46	2	0.721	A BB	721475.	150.000	UG/L	2.70
21	63	444	13:57	2	0.789	A BB	449684.	150.000	UG/L	2.70
22	75	454	14:16	2	0.806	A BB	814437.	150.000	UG/L	2.70
23	130	471	14:48	2	0.837	A BB	564656.	150.000	UG/L	2.70
24	129	493	15:30	2	0.876	A BB	547936.	150.000	UG/L	2.70
25	97	495	15:34	2	0.879	A BB	427578.	150.000	UG/L	2.70
26	78	484	15:13	2	0.860	A BB	1056310.	150.000	UG/L	2.70
27	75	494	15:32	2	0.877	A VB	360410.	150.000	UG/L	2.70
28	63	526	16:32	2	0.934	A BB	283006.	150.000	UG/L	2.70
29	173	574	18:03	2	1.020	A BB	429116.	150.000	UG/L	2.70
30	43	585	18:23	3	0.824	A BB	495005.	150.000	UG/L	2.70
31	43	632	19:52	3	0.890	A BB	365095.	150.000	UG/L	2.70
32	164	643	20:13	3	0.906	A BB	491536.	150.000	UG/L	2.70
33	83	644	20:15	3	0.907	A BB	696635.	150.000	UG/L	2.70
34	92	678	21:19	3	0.955	A BB	708790.	150.000	UG/L	2.70
35	112	714	22:27	3	1.006	A BB	992358.	150.000	UG/L	2.70
36	106	767	24:07	3	1.080	A BB	443001.	150.000	UG/L	2.70
37	104	853	26:49	3	1.201	A BB	1026650.	150.000	UG/L	2.70
38	106	859	27:00	3	1.210	A BB	12995.	3.238	UG/L	0.06
39	106	878	27:36	3	1.237	M XX	602045.	150.000	UG/L	2.70
40	65	332	10:26	1	1.355	A BB	162587.	50.000	UG/L	0.90
41	98	673	21:09	3	0.948	A BB	370020.	50.000	UG/L	0.90
42	95	826	25:58	3	1.163	A BB	321536.	50.000	UG/L	0.90

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:19	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19	1.00	0.171	1.00	150.00	150.00	0.726	0.726	1.00
5	1:53	1.00	0.245	1.00	150.00	150.00	1.252	1.252	1.00
6	2:20	1.00	0.302	1.00	150.00	150.00	1.225	1.225	1.00
7	2:52	1.00	0.371	1.00	150.00	150.00	0.858	0.858	1.00
8	4:33	1.00	0.592	1.00	150.00	150.00	1.260	1.260	1.00
9	5:07	1.00	0.665	1.00	150.00	150.00	0.352	0.352	1.00
10	5:53	1.00	0.763	1.00	150.00	150.00	3.703	3.703	1.00
11	7:12	1.00	0.935	1.00	150.00	150.00	1.262	1.262	1.00
12	8:27	1.00	1.098	1.00	150.00	150.00	2.576	2.576	1.00
13	9:13	1.00	1.196	1.00	150.00	150.00	1.606	1.606	1.00
14	9:52	1.00	1.282	1.00	150.00	150.00	3.140	3.140	1.00
15	10:34	1.00	1.371	1.00	150.00	150.00	2.013	2.013	1.00
16	10:28	1.00	0.591	1.00	150.00	150.00	0.138	0.138	1.00
17	11:44	1.00	0.663	1.00	150.00	150.00	0.477	0.477	1.00
18	12:06	1.00	0.684	1.00	150.00	150.00	0.346	0.346	1.00
19	12:21	1.00	0.698	1.00	150.00	150.00	0.719	0.719	1.00
20	12:46	1.00	0.721	1.00	150.00	150.00	0.561	0.561	1.00
21	13:57	1.00	0.789	1.00	150.00	150.00	0.349	0.349	1.00
22	14:16	1.00	0.806	1.00	150.00	150.00	0.633	0.633	1.00
23	14:48	1.00	0.837	1.00	150.00	150.00	0.439	0.439	1.00
24	15:30	1.00	0.876	1.00	150.00	150.00	0.426	0.426	1.00
25	15:34	1.00	0.879	1.00	150.00	150.00	0.332	0.332	1.00
26	15:13	1.00	0.860	1.00	150.00	150.00	0.821	0.821	1.00
27	15:32	1.00	0.877	1.00	150.00	150.00	0.280	0.280	1.00
28	16:32	1.00	0.934	1.00	150.00	150.00	0.220	0.220	1.00
29	18:03	1.00	1.020	1.00	150.00	150.00	0.333	0.333	1.00
30	18:23	1.00	0.824	1.00	150.00	150.00	0.515	0.515	1.00
31	19:52	1.00	0.890	1.00	150.00	150.00	0.380	0.380	1.00
32	20:13	1.00	0.906	1.00	150.00	150.00	0.511	0.511	1.00
33	20:15	1.00	0.907	1.00	150.00	150.00	0.724	0.724	1.00
34	21:19	1.00	0.955	1.00	150.00	150.00	0.737	0.737	1.00
35	22:27	1.00	1.006	1.00	150.00	150.00	1.032	1.032	1.00
36	24:07	1.00	1.080	1.00	150.00	150.00	0.461	0.461	1.00
37	26:49	1.00	1.201	1.00	150.00	150.00	1.068	1.068	1.00
38	27:36	0.98	1.237	0.98	3.24	150.00	0.014	0.626	0.02
39	27:36	1.00	1.237	1.00	150.00	150.00	0.626	0.626	1.00
40	10:26	1.00	1.355	1.00	50.00	50.00	1.936	1.936	1.00
41	21:09	1.00	0.948	1.00	50.00	50.00	1.154	1.154	1.00
42	25:58	1.00	1.163	1.00	50.00	50.00	1.003	1.003	1.00

MIDRIC
08/18/87 9:57:00
SAMPLE: VOLATILE STANDARD 8/18/87
CONDS.: 200 UG/L STD
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V0818B20A #1
CALI: V0818B20A #2

SCANS 1 TO 1000



3917

Quantitation Report File: V0818B20A

Data: V0818B20A.TI
08/18/87 9:57:00
Sample: VOLATILE STANDARD 8/18/87
Conds.: 200 UG/L STD
Submitted by: AK Analyst: PAA

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

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

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	246	7:44	1	1.000	A BB	84750.	50.000	UG/L	0.67
2	114	562	17:40	2	1.000	A BB	427751.	50.000	UG/L	0.67
3	117	710	22:19	3	1.000	A BB	323013.	50.000	UG/L	0.67
4	50	40	1:15	1	0.163	A BB	523434.	200.000	UG/L	2.67
5	94	59	1:51	1	0.240	A BB	512246.	200.000	UG/L	2.67
6	62	74	2:20	1	0.301	A BB	490994.	200.000	UG/L	2.67
7	64	94	2:57	1	0.382	A BB	315220.	200.000	UG/L	2.67
8	84	147	4:37	1	0.598	A BB	424540.	200.000	UG/L	2.67
9	43	165	5:11	1	0.671	A BB	93789.	200.000	UG/L	2.67
10	76	189	5:56	1	0.768	A BB	1239330.	200.000	UG/L	2.67
11	96	230	7:14	1	0.935	A BB	422320.	200.000	UG/L	2.67
12	63	270	8:29	1	1.098	A BB	819914.	200.000	UG/L	2.67
13	96	293	9:13	1	1.191	A BB	455533.	200.000	UG/L	2.67
14	83	313	9:50	1	1.272	A BB	1040770.	200.000	UG/L	2.67
15	62	335	10:32	1	1.362	A BB	645364.	200.000	UG/L	2.67
16	43	332	10:26	2	0.591	A BB	188060.	200.000	UG/L	2.67
17	97	372	11:42	2	0.662	A BB	820232.	200.000	UG/L	2.67
18	117	384	12:04	2	0.683	A VB	594860.	200.000	UG/L	2.67
19	43	392	12:19	2	0.698	A BB	1102330.	200.000	UG/L	2.67
20	83	405	12:44	2	0.721	A BB	959030.	200.000	UG/L	2.67
21	63	443	13:56	2	0.788	A BB	572267.	200.000	UG/L	2.67
22	75	453	14:14	2	0.806	A BB	1065970.	200.000	UG/L	2.67
23	130	470	14:46	2	0.836	A BB	710120.	200.000	UG/L	2.67
24	129	491	15:26	2	0.874	A BB	706582.	200.000	UG/L	2.67
25	97	494	15:32	2	0.879	A BB	518132.	200.000	UG/L	2.67
26	78	482	15:09	2	0.858	A BB	1350820.	200.000	UG/L	2.67
27	75	492	15:28	2	0.875	A VB	461426.	200.000	UG/L	2.67
28	63	524	16:28	2	0.932	A BB	313781.	200.000	UG/L	2.67
29	173	573	18:01	2	1.020	A BB	542400.	200.000	UG/L	2.67
30	43	584	18:21	3	0.823	A BB	532491.	200.000	UG/L	2.67
31	43	631	19:50	3	0.889	A BB	416670.	200.000	UG/L	2.67
32	164	642	20:11	3	0.904	A BB	642380.	200.000	UG/L	2.67
33	83	644	20:15	3	0.907	A BB	822029.	200.000	UG/L	2.67
34	92	678	21:19	3	0.955	A BB	934667.	200.000	UG/L	2.67
35	112	714	22:27	3	1.006	A BB	1310010.	200.000	UG/L	2.67
36	106	768	24:09	3	1.082	A BB	594790.	200.000	UG/L	2.67
37	104	855	26:53	3	1.204	A BB	1385800.	200.000	UG/L	2.67
38	106	861	27:04	3	1.213	A BB	20795.	200.000	UG/L	2.67
39	106	880	27:40	3	1.239	A BB	807620.	200.000	UG/L	2.67
40	65	331	10:24	1	1.346	A BB	169114.	50.000	UG/L	0.67
41	98	672	21:07	3	0.946	A BB	369181.	50.000	UG/L	0.67
42	95	826	25:58	3	1.163	A BB	322002.	50.000	UG/L	0.67

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:44	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:40	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:19	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:15	1.00	0.163	1.00	200.00	200.00	1.544	1.544	1.00
5	1:51	1.00	0.240	1.00	200.00	200.00	1.511	1.511	1.00
6	2:20	1.00	0.301	1.00	200.00	200.00	1.448	1.448	1.00
7	2:57	1.00	0.382	1.00	200.00	200.00	0.930	0.930	1.00
8	4:37	1.00	0.598	1.00	200.00	200.00	1.252	1.252	1.00
9	5:11	1.00	0.671	1.00	200.00	200.00	0.277	0.277	1.00
10	5:56	1.00	0.768	1.00	200.00	200.00	3.656	3.656	1.00
11	7:14	1.00	0.935	1.00	200.00	200.00	1.246	1.246	1.00
12	8:29	1.00	1.098	1.00	200.00	200.00	2.419	2.419	1.00
13	9:13	1.00	1.191	1.00	200.00	200.00	1.344	1.344	1.00
14	9:50	1.00	1.272	1.00	200.00	200.00	3.070	3.070	1.00
15	10:32	1.00	1.362	1.00	200.00	200.00	1.904	1.904	1.00
16	10:26	1.00	0.591	1.00	200.00	200.00	0.110	0.110	1.00
17	11:42	1.00	0.662	1.00	200.00	200.00	0.479	0.479	1.00
18	12:04	1.00	0.683	1.00	200.00	200.00	0.348	0.348	1.00
19	12:19	1.00	0.698	1.00	200.00	200.00	0.644	0.644	1.00
20	12:44	1.00	0.721	1.00	200.00	200.00	0.561	0.561	1.00
21	13:56	1.00	0.788	1.00	200.00	200.00	0.334	0.334	1.00
22	14:14	1.00	0.806	1.00	200.00	200.00	0.623	0.623	1.00
23	14:46	1.00	0.836	1.00	200.00	200.00	0.415	0.415	1.00
24	15:26	1.00	0.874	1.00	200.00	200.00	0.413	0.413	1.00
25	15:32	1.00	0.879	1.00	200.00	200.00	0.303	0.303	1.00
26	15:09	1.00	0.858	1.00	200.00	200.00	0.789	0.789	1.00
27	15:28	1.00	0.875	1.00	200.00	200.00	0.270	0.270	1.00
28	16:28	1.00	0.932	1.00	200.00	200.00	0.183	0.183	1.00
29	18:01	1.00	1.020	1.00	200.00	200.00	0.317	0.317	1.00
30	18:21	1.00	0.823	1.00	200.00	200.00	0.412	0.412	1.00
31	19:50	1.00	0.889	1.00	200.00	200.00	0.322	0.322	1.00
32	20:11	1.00	0.904	1.00	200.00	200.00	0.497	0.497	1.00
33	20:15	1.00	0.907	1.00	200.00	200.00	0.636	0.636	1.00
34	21:19	1.00	0.955	1.00	200.00	200.00	0.723	0.723	1.00
35	22:27	1.00	1.006	1.00	200.00	200.00	1.014	1.014	1.00
36	24:09	1.00	1.082	1.00	200.00	200.00	0.460	0.460	1.00
37	26:53	1.00	1.204	1.00	200.00	200.00	1.073	1.073	1.00
38	27:04	1.00	1.213	1.00	200.00	200.00	0.016	0.016	1.00
39	27:40	1.00	1.239	1.00	200.00	200.00	0.625	0.625	1.00
40	10:24	1.00	1.346	1.00	50.00	50.00	1.995	1.995	1.00
41	21:07	1.00	0.946	1.00	50.00	50.00	1.143	1.143	1.00
42	25:58	1.00	1.163	1.00	50.00	50.00	0.997	0.997	1.00

CONTINUING CALIBRATION SUMMARY

VOLATILE ORGANICS

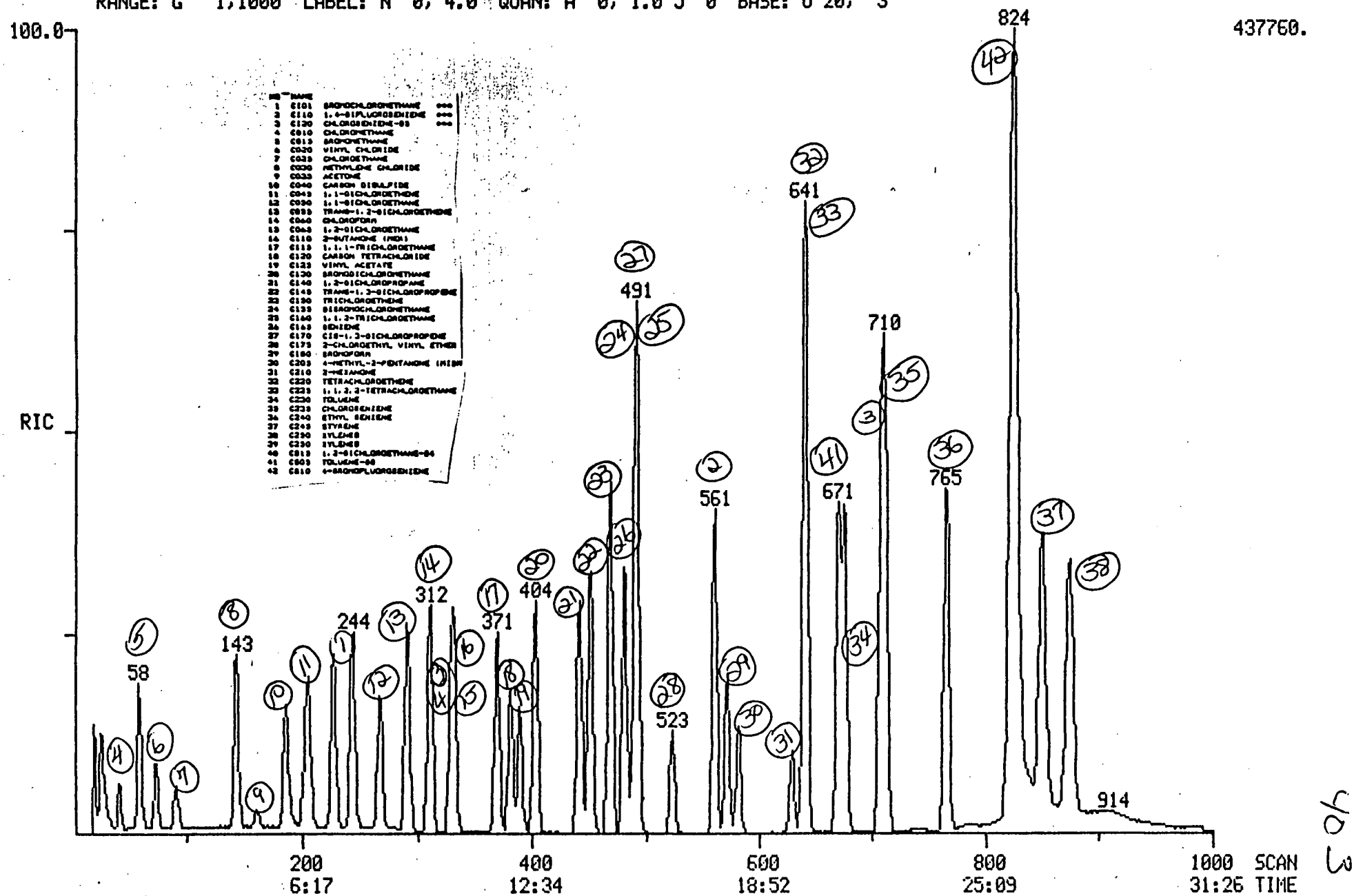
CONTINUING CALIBRATION CHECK
VOLATILE HSL COMPOUNDS

Case No: 14558 Region: NJBSA Calibration Date: 08/18/87
Contractor: AnalytiKEM Time: 20:16
Contract No: Laboratory ID: V0818B5P
Instrument ID: 5100B Initial Cali. Date: 08/18/87

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

Compound	AVE RF	RF(50)	% D	CCC	SPCC
Chloromethane	0.750	0.691	7.9		* *
Bromomethane	1.390	1.543	-11.0		
Vinyl Chloride	1.247	1.178	5.5	*	
Chloroethane	0.836	0.765	8.5		
Methylene Chloride	1.229	1.162	5.5		
Acetone	0.373	0.429	-15.0		
Carbon Disulfide	3.480	3.508	-0.8		
1,1-Dichloroethene	1.210	1.192	1.5	*	
1,1-Dichloroethane	2.457	2.570	-4.6		* *
1,2-Dichloroethene (total)	1.398	1.487	-6.4		
Chloroform	3.076	3.171	-3.0	*	
1,2-Dichloroethane	1.974	2.056	-4.3		
2-Butanone	0.143	0.136	4.9		
1,1,1-Trichloroethane	0.461	0.454	1.5		
Carbon Tetrachloride	0.312	0.306	1.9		
Vinyl Acetate	0.685	0.676	1.3		
Bromodichloromethane	0.529	0.548	-3.6		
1,2-Dichloropropane	0.335	0.333	0.6	*	
cis-1,3-Dichloropropene	0.259	0.238	8.1		
Trichloroethene	0.434	0.431	0.7		
Dibromochloromethane	0.390	0.435	-11.5		
1,1,2-Trichloroethane	0.325	0.329	-1.2		
Benzene	0.802	0.797	0.6		
Trans-1,3-Dichloropropene	0.596	0.575	3.5		
2-Chloroethylvinylether	0.197	0.165	16.2		
Bromoform	0.287	0.326	-13.6		* *
4-Methyl-2-Pentanone	0.494	0.418	15.4		
2-Hexanone	0.374	0.342	8.6		
Tetrachloroethene	0.511	0.523	-2.3		
1,1,2,2-Tetrachloroethane	0.704	0.681	3.3		* *
Toluene	0.724	0.716	1.1	*	
Chlorobenzene	1.006	1.006	0.0		* *
Ethylbenzene	0.454	0.444	2.2	*	
Styrene	1.038	1.000	3.7		
Total Xylenes	0.609	0.571	6.2		

RF(50) - Response Factor from daily standard file at 50 ug/l
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Mininum RF for Bromoform is 0.250


MIDRIC
08/18/87 20:16:00
SAMPLE: VOLATILE STANDARD 8-18-87
CONDS.: 50 UG/L STD
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: V0818B5P #1
CALI: V0818B5P #2
SCANS 1 TO 1000
100.0
437760.
RIC
824
641
491
710
561
671
765
312
404
371
244
143
58
523
914
200
6:17
400
12:34
600
18:52
800
25:09
1000 SCAN
31:26 TIME

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	243	7:38	1	1.000	A BB	82616.	50.000 UG/L	2.44
2	114	561	17:38	2	1.000	A BB	427260.	50.000 UG/L	2.44
3	117	708	22:15	3	1.000	A BB	328757.	50.000 UG/L	2.44
4	50	40	1:15	1	0.165	A BB	57084.	50.000 UG/L	2.44
5	94	58	1:49	1	0.239	A BB	127478.	50.000 UG/L	2.44
6	62	73	2:18	1	0.300	A BB	97318.	50.000 UG/L	2.44
7	64	90	2:50	1	0.370	A BB	63188.	50.000 UG/L	2.44
8	84	143	4:30	1	0.588	A BB	95994.	50.000 UG/L	2.44
9	43	161	5:04	1	0.663	A BB	35448.	50.000 UG/L	2.44
10	76	186	5:51	1	0.765	A BB	289842.	50.000 UG/L	2.44
11	96	227	7:08	1	0.934	A BB	98501.	50.000 UG/L	2.44
12	63	267	8:24	1	1.099	A BB	212291.	50.000 UG/L	2.44
13	96	291	9:09	1	1.198	A BB	122860.	50.000 UG/L	2.44
14	83	312	9:48	1	1.284	A BB	262009.	50.000 UG/L	2.44
15	62	333	10:28	1	1.370	A BB	170013.	50.000 UG/L	2.44
16	43	331	10:24	2	0.590	A BB	58120.	50.000 UG/L	2.44
17	97	371	11:40	2	0.661	A BB	193876.	50.000 UG/L	2.44
18	117	382	12:00	2	0.681	A BB	130913.	50.000 UG/L	2.44
19	43	391	12:17	2	0.697	A BB	288636.	50.000 UG/L	2.44
20	83	404	12:42	2	0.720	A BB	234137.	50.000 UG/L	2.44
21	63	442	13:54	2	0.788	A BB	142212.	50.000 UG/L	2.44
22	75	452	14:13	2	0.806	A BB	245546.	50.000 UG/L	2.44
23	130	469	14:45	2	0.836	A BB	184180.	50.000 UG/L	2.44
24	129	490	15:24	2	0.873	A BB	185670.	50.000 UG/L	2.44
25	97	492	15:28	2	0.877	A BB	140746.	50.000 UG/L	2.44
26	78	481	15:07	2	0.857	A BB	340533.	50.000 UG/L	2.44
27	75	491	15:26	2	0.875	A BB	101679.	50.000 UG/L	2.44
28	63	523	16:26	2	0.932	A BB	70519.	50.000 UG/L	2.44
29	173	572	17:59	2	1.020	A BB	139412.	50.000 UG/L	2.44
30	43	582	18:18	3	0.822	A BB	137301.	50.000 UG/L	2.44
31	43	630	19:48	3	0.890	A BB	112324.	50.000 UG/L	2.44
32	164	641	20:09	3	0.905	A BB	171977.	50.000 UG/L	2.44
33	83	642	20:11	3	0.907	A BB	223837.	50.000 UG/L	2.44
34	92	676	21:15	3	0.955	A BB	235398.	50.000 UG/L	2.44
35	112	712	22:23	3	1.006	A BB	330822.	50.000 UG/L	2.44
36	106	765	24:03	3	1.081	A BB	146130.	50.000 UG/L	2.44
37	104	850	26:43	3	1.201	A BB	328670.	50.000 UG/L	2.44
38	106	875	27:30	3	1.236	A BB	187674.	50.000 UG/L	2.44
39	NOT	FOUND							
40	65	330	10:22	1	1.358	A BB	149521.	50.000 UG/L	2.44
41	98	671	21:06	3	0.948	A BB	373162.	50.000 UG/L	2.44
42	95	823	25:52	3	1.162	A BB	322663.	50.000 UG/L	2.44

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:15	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:15	1.00	0.165	1.00	50.00	50.00	0.691	0.691	1.00
5	1:49	1.00	0.239	1.00	50.00	50.00	1.543	1.543	1.00
6	2:18	1.00	0.300	1.00	50.00	50.00	1.178	1.178	1.00
7	2:50	1.00	0.370	1.00	50.00	50.00	0.765	0.765	1.00
8	4:30	1.00	0.588	1.00	50.00	50.00	1.162	1.162	1.00
9	5:04	1.00	0.663	1.00	50.00	50.00	0.429	0.429	1.00
10	5:51	1.00	0.765	1.00	50.00	50.00	3.508	3.508	1.00
11	7:08	1.00	0.934	1.00	50.00	50.00	1.192	1.192	1.00
12	8:24	1.00	1.099	1.00	50.00	50.00	2.570	2.570	1.00
13	9:09	1.00	1.198	1.00	50.00	50.00	1.487	1.487	1.00
14	9:48	1.00	1.284	1.00	50.00	50.00	3.171	3.171	1.00
15	10:28	1.00	1.370	1.00	50.00	50.00	2.058	2.058	1.00
16	10:24	1.00	0.590	1.00	50.00	50.00	0.136	0.136	1.00
17	11:40	1.00	0.661	1.00	50.00	50.00	0.454	0.454	1.00
18	12:00	1.00	0.681	1.00	50.00	50.00	0.306	0.306	1.00
19	12:17	1.00	0.697	1.00	50.00	50.00	0.676	0.676	1.00
20	12:42	1.00	0.720	1.00	50.00	50.00	0.548	0.548	1.00
21	13:54	1.00	0.788	1.00	50.00	50.00	0.333	0.333	1.00
22	14:13	1.00	0.806	1.00	50.00	50.00	0.575	0.575	1.00
23	14:45	1.00	0.836	1.00	50.00	50.00	0.431	0.431	1.00
24	15:24	1.00	0.873	1.00	50.00	50.00	0.435	0.435	1.00
25	15:28	1.00	0.877	1.00	50.00	50.00	0.329	0.329	1.00
26	15:07	1.00	0.857	1.00	50.00	50.00	0.797	0.797	1.00
27	15:26	1.00	0.875	1.00	50.00	50.00	0.238	0.238	1.00
28	16:26	1.00	0.932	1.00	50.00	50.00	0.165	0.165	1.00
29	17:59	1.00	1.020	1.00	50.00	50.00	0.326	0.326	1.00
30	18:18	1.00	0.822	1.00	50.00	50.00	0.418	0.418	1.00
31	19:48	1.00	0.890	1.00	50.00	50.00	0.342	0.342	1.00
32	20:09	1.00	0.905	1.00	50.00	50.00	0.523	0.523	1.00
33	20:11	1.00	0.907	1.00	50.00	50.00	0.681	0.681	1.00
34	21:15	1.00	0.955	1.00	50.00	50.00	0.716	0.716	1.00
35	22:23	1.00	1.006	1.00	50.00	50.00	1.006	1.006	1.00
36	24:03	1.00	1.081	1.00	50.00	50.00	0.444	0.444	1.00
37	26:43	1.00	1.201	1.00	50.00	50.00	1.000	1.000	1.00
38	27:30	1.00	1.236	1.00	50.00	50.00	0.571	0.571	1.00
39	27:40		1.238			50.00		0.574	
40	10:22	1.00	1.358	1.00	50.00	50.00	1.810	1.810	1.00
41	21:06	1.00	0.948	1.00	50.00	50.00	1.135	1.135	1.00
42	25:52	1.00	1.162	1.00	50.00	50.00	0.981	0.981	1.00

CONTINUING CALIBRATION SUMMARY

VOLATILE ORGANICS

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Instrument ID: 5100E Calibration date: 08/19/87 Time: 0942

Lab File ID: V0819BEA Init. Calib. Date(s): 08/17/87 08/17/87

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

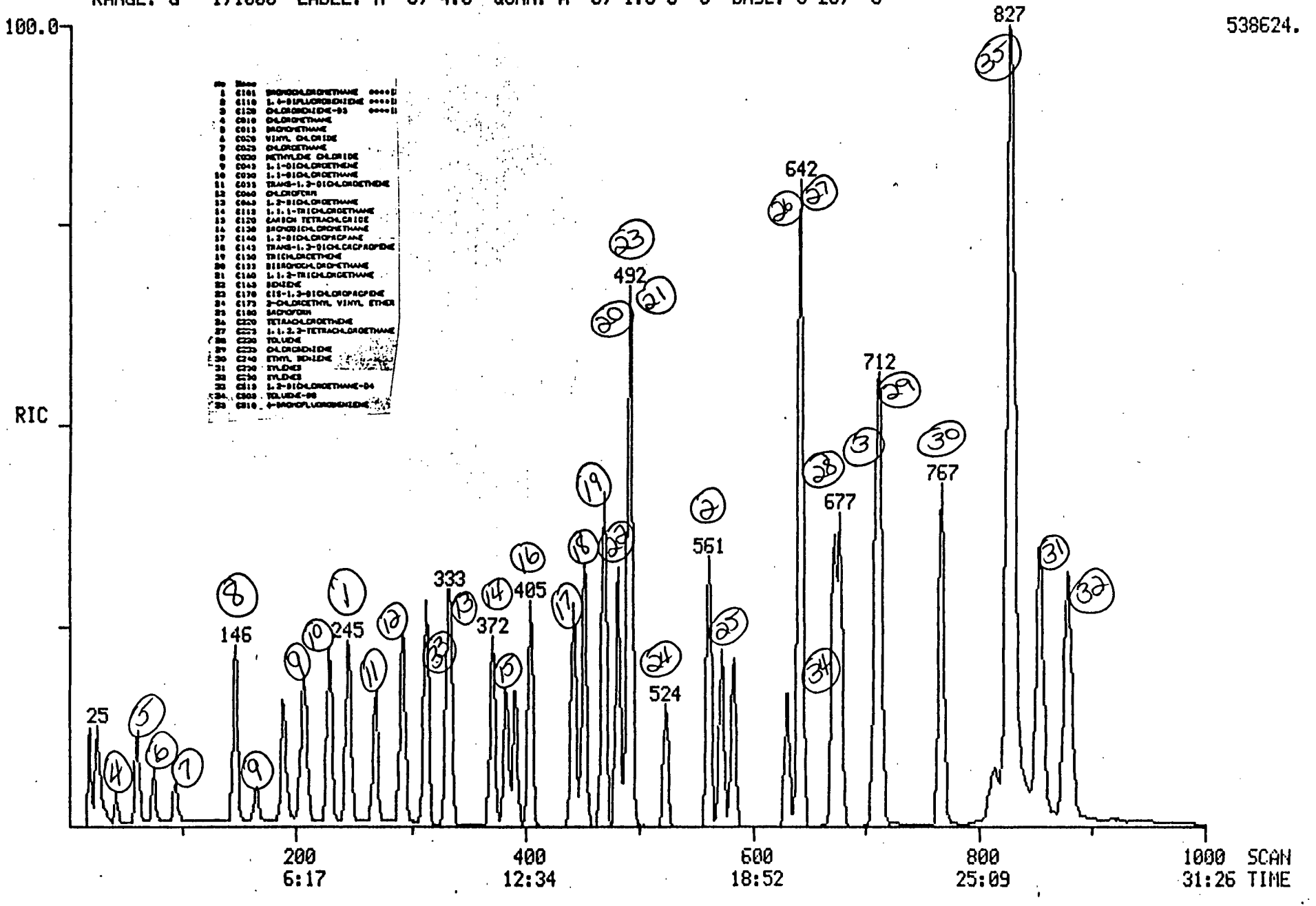
Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	0.394	0.461	-17.0	#
Bromomethane		1.195	1.133	5.2	
Vinyl Chloride	*	0.896	1.084	-21.0	*
Chloroethane		0.678	0.830	-22.4	
Methylene Chloride		1.187	1.287	-8.4	
Acetone					
Carbon Disulfide					
1,1-Dichloroethene	*	1.109	1.284	-15.8	*
1,1-Dichloroethane	#	2.324	2.706	-16.4	#
1,2-Dichloroethene (total)		1.363	1.419	-4.1	
Chloroform	*	2.920	3.374	-15.6	*
1,2-Dichloroethane		1.869	2.167	-15.9	
2-Butanone					
1,1,1-Trichloroethane		0.452	0.498	-10.2	
Carbon Tetrachloride		0.306	0.334	-9.2	
Vinyl Acetate					
Bromodichloromethane		0.549	0.600	-9.3	
1,2-Dichloropropane	*	0.308	0.361	-17.2	*
cis-1,3-Dichloropropene		0.238	0.272	-14.3	
Trichloroethene		0.432	0.484	-12.0	
Dibromochloromethane		0.444	0.491	-10.6	
1,1,2-Trichloroethane		0.315	0.374	-18.7	
Benzene		0.750	0.868	-15.7	
Trans-1,3-Dichloropropene		0.563	0.636	-13.0	
2-Chloroethylvinylether		0.182	0.235	-29.1	
Bromoform	#	0.360	0.411	-14.2	#
4-Methyl-2-Pentanone					
2-Hexanone					
Tetrachloroethene		0.483	0.572	-18.4	
1,1,2,2-Tetrachloroethane	#	0.637	0.896	-40.7	#
Toluene	*	0.653	0.787	-20.5	*
Chlorobenzene	#	0.907	1.103	-21.6	#
Ethylbenzene	*	0.406	0.505	-24.4	*
Styrene					
Total Xylenes		0.466	0.651	-39.7	
Toluene-d8		0.893	1.135	-27.1	
BFB		0.784	0.971	-23.9	
1,2-Dichloroethane-d4		1.521	1.759	-15.7	

MIDRIC
08/19/87 9:42:00
SAMPLE: VOLATILE STANDARD 8/19/87
CONDS.: 50 UG/L STD
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: V0819B5A #1
CALI: 14558V8 #2

SCANS 1 TO 1000



Quantitation Report File: V0819B5A

Data: V0819B5A.TI
08/19/87 9:42:00
Sample: VOLATILE STANDARD 8/19/87
Conds.: 50 UG/L STD
Submitted by: AK Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	245	7:42	1	1.000	A BB	93568.	50.000	UG/L	2.86
2	114	561	17:38	2	1.000	A BB	460318.	50.000	UG/L	2.86
3	117	709	22:17	3	1.000	A BB	355881.	50.000	UG/L	2.86
4	50	42	1:19	1	0.171	A BB	43173.	50.000	UG/L	2.86
5	94	60	1:53	1	0.245	A BB	105998.	50.000	UG/L	2.86
6	62	74	2:20	1	0.302	A BB	101396.	50.000	UG/L	2.86
7	64	93	2:55	1	0.380	A BB	77654.	50.000	UG/L	2.86
8	84	146	4:35	1	0.596	A BB	120382.	50.000	UG/L	2.86
9	96	229	7:12	1	0.935	A BB	120186.	50.000	UG/L	2.86
10	63	269	8:27	1	1.098	A BB	253200.	50.000	UG/L	2.86
11	96	292	9:11	1	1.192	A BB	132748.	50.000	UG/L	2.86
12	83	313	9:50	1	1.278	A BB	315683.	50.000	UG/L	2.86
13	62	334	10:30	1	1.363	A BB	202767.	50.000	UG/L	2.86
14	97	372	11:42	2	0.663	A BB	229315.	50.000	UG/L	2.86
15	117	383	12:02	2	0.683	A BB	153921.	50.000	UG/L	2.86
16	83	405	12:44	2	0.722	A BB	276364.	50.000	UG/L	2.86
17	63	443	13:56	2	0.790	A BB	166343.	50.000	UG/L	2.86
18	75	452	14:13	2	0.806	A BB	292851.	50.000	UG/L	2.86
19	130	469	14:45	2	0.836	A BB	223006.	50.000	UG/L	2.86
20	129	491	15:26	2	0.875	A BB	225967.	50.000	UG/L	2.86
21	97	493	15:30	2	0.879	A BB	171986.	50.000	UG/L	2.86
22	78	482	15:09	2	0.859	A BB	399736.	50.000	UG/L	2.86
23	75	492	15:28	2	0.877	A BB	125322.	50.000	UG/L	2.86
24	63	524	16:28	2	0.934	A BB	108256.	50.000	UG/L	2.86
25	173	573	18:01	2	1.021	A BB	189246.	50.000	UG/L	2.86
26	164	641	20:09	3	0.904	A BB	203714.	50.000	UG/L	2.86
27	83	643	20:13	3	0.907	A BB	318808.	50.000	UG/L	2.86
28	92	677	21:17	3	0.955	A BB	280199.	50.000	UG/L	2.86
29	112	713	22:25	3	1.006	A BB	392582.	50.000	UG/L	2.86
30	106	767	24:07	3	1.082	A BB	179618.	50.000	UG/L	2.86
31	106	860	27:02	3	1.213	A BB	1023.	50.000	UG/L	2.86
32	106	879	27:38	3	1.240	A BB	231802.	50.000	UG/L	2.86
33	65	331	10:24	1	1.351	A BB	164591.	50.000	UG/L	2.86
34	98	672	21:07	3	0.948	A BB	404076.	50.000	UG/L	2.86
35	95	826	25:58	3	1.165	A BB	345417.	50.000	UG/L	2.86

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:17	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19	1.00	0.171	1.00	50.00	50.00	0.461	0.461	1.00
5	1:53	1.00	0.245	1.00	50.00	50.00	1.133	1.133	1.00
6	2:20	1.00	0.302	1.00	50.00	50.00	1.084	1.084	1.00
7	2:55	1.00	0.380	1.00	50.00	50.00	0.830	0.830	1.00
8	4:35	1.00	0.596	1.00	50.00	50.00	1.287	1.287	1.00
9	7:12	1.00	0.935	1.00	50.00	50.00	1.284	1.284	1.00
10	8:27	1.00	1.098	1.00	50.00	50.00	2.706	2.706	1.00
11	9:11	1.00	1.192	1.00	50.00	50.00	1.419	1.419	1.00
12	9:50	1.00	1.278	1.00	50.00	50.00	3.374	3.374	1.00
13	10:30	1.00	1.363	1.00	50.00	50.00	2.167	2.167	1.00
14	11:42	1.00	0.663	1.00	50.00	50.00	0.498	0.498	1.00
15	12:02	1.00	0.683	1.00	50.00	50.00	0.334	0.334	1.00
16	12:44	1.00	0.722	1.00	50.00	50.00	0.600	0.600	1.00
17	13:56	1.00	0.790	1.00	50.00	50.00	0.361	0.361	1.00
18	14:13	1.00	0.806	1.00	50.00	50.00	0.636	0.636	1.00
19	14:45	1.00	0.836	1.00	50.00	50.00	0.484	0.484	1.00
20	15:26	1.00	0.875	1.00	50.00	50.00	0.491	0.491	1.00
21	15:30	1.00	0.879	1.00	50.00	50.00	0.374	0.374	1.00
22	15:09	1.00	0.859	1.00	50.00	50.00	0.868	0.868	1.00
23	15:28	1.00	0.877	1.00	50.00	50.00	0.272	0.272	1.00
24	16:28	1.00	0.934	1.00	50.00	50.00	0.235	0.235	1.00
25	18:01	1.00	1.021	1.00	50.00	50.00	0.411	0.411	1.00
26	20:09	1.00	0.904	1.00	50.00	50.00	0.572	0.572	1.00
27	20:13	1.00	0.907	1.00	50.00	50.00	0.896	0.896	1.00
28	21:17	1.00	0.955	1.00	50.00	50.00	0.787	0.787	1.00
29	22:25	1.00	1.006	1.00	50.00	50.00	1.103	1.103	1.00
30	24:07	1.00	1.082	1.00	50.00	50.00	0.505	0.505	1.00
31	27:02	1.00	1.213	1.00	50.00	50.00	0.003	0.003	1.00
32	27:38	1.00	1.240	1.00	50.00	50.00	0.651	0.651	1.00
33	10:24	1.00	1.351	1.00	50.00	50.00	1.759	1.759	1.00
34	21:07	1.00	0.948	1.00	50.00	50.00	1.135	1.135	1.00
35	25:58	1.00	1.165	1.00	50.00	50.00	0.971	0.971	1.00

CONTINUING CALIBRATION SUMMARY

VOLATILE ORGANICS

CONTINUING CALIBRATION CHECK
VOLATILE HSL COMPOUNDS

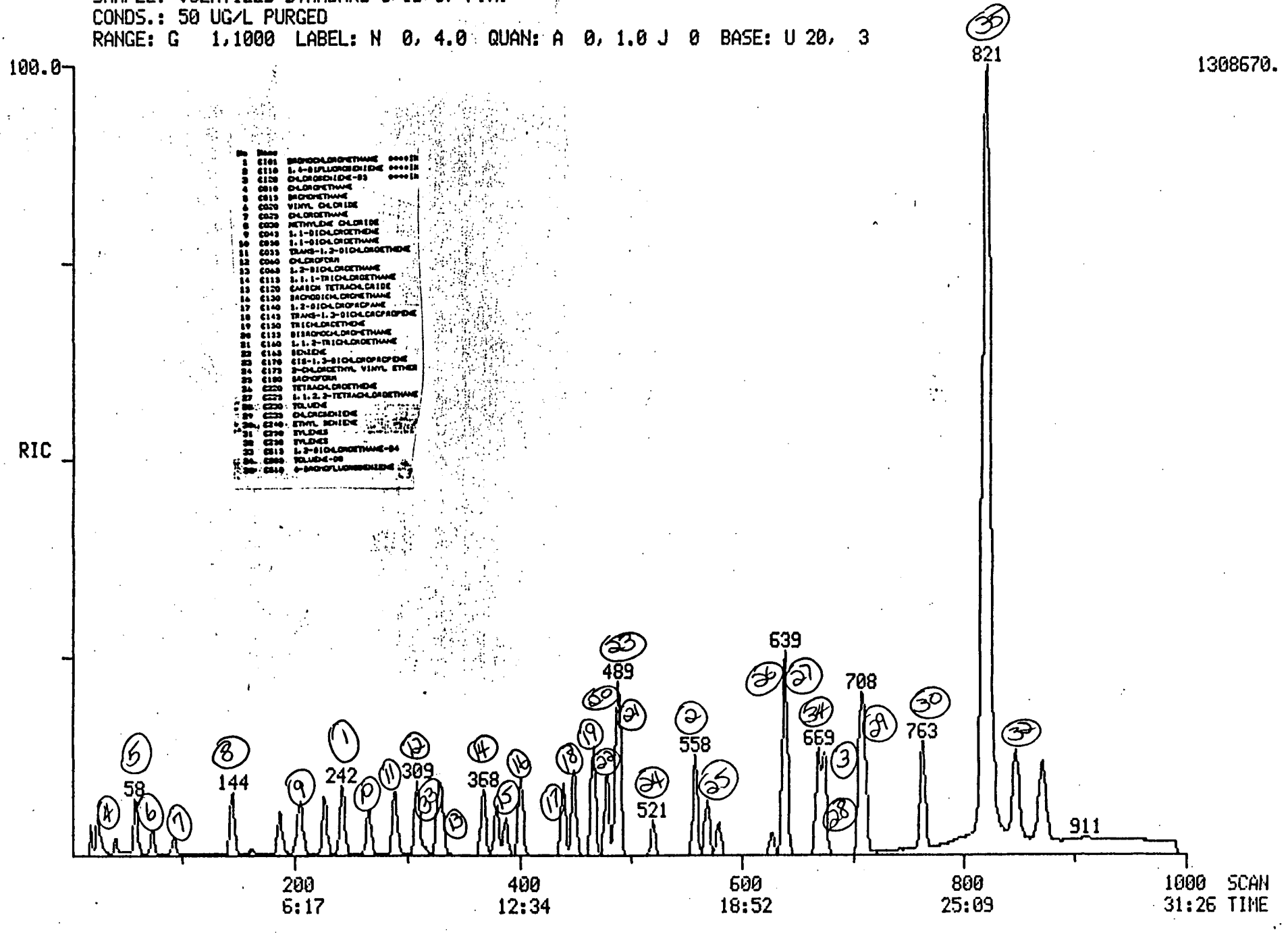
Case No: 14558 Region: NJ-ESA Calibration Date: 08/19/87
Contractor: AnalytiKEM Time: 22:23
Contract No: Laboratory ID: V0819B5P
Instrument ID: 5100B Initial Cali. Date: 08/16/87

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

Compound	AVE RF	RF(50)	% D	CCC	SPCC
Chloromethane	0.750	0.611	18.5		* *
Bromomethane	1.390	1.539	-10.7		
Vinyl Chloride	1.247	1.168	6.3	*	
Chloroethane	0.836	0.802	4.1		
Methylene Chloride	1.229	1.174	4.5		
Acetone	0.373				
Carbon Disulfide	3.480				
1,1-Dichloroethene	1.210	1.129	6.7	*	
1,1-Dichloroethane	2.457	2.334	5.0		* *
1,2-Dichloroethene (total)	1.398	1.217	12.9		
Chloroform	3.078	2.798	9.1	*	
1,2-Dichloroethane	1.974	1.880	4.8		
2-Butanone	0.143				
1,1,1-Trichloroethane	0.461	0.463	-0.4		
Carbon Tetrachloride	0.312	0.325	-4.2		
Vinyl Acetate	0.685				
Bromodichloromethane	0.529	0.562	-6.2		
1,2-Dichloropropane	0.335	0.310	7.5	*	
cis-1,3-Dichloropropene	0.259	0.238	8.1		
Trichloroethene	0.434	0.426	1.8		
Dibromochloromethane	0.390	0.464	-19.0		
1,1,2-Trichloroethane	0.325	0.324	0.3		
Benzene	0.802	0.764	4.7		
Trans-1,3-Dichloropropene	0.596	0.562	5.7		
2-Chloroethylvinylether	0.197	0.175	11.2		
Bromoform	0.287	0.349	-21.6		* *
4-Methyl-2-Pentanone	0.494				
2-Hexanone	0.374				
Tetrachloroethene	0.511	0.526	-2.9		
1,1,2,2-Tetrachloroethane	0.704	0.685	2.7		* *
Toluene	0.724	0.702	3.0	*	
Chlorobenzene	1.006	1.002	0.4		* *
Ethylbenzene	0.454	0.436	4.0	*	
Styrene	1.038				
Total Xylenes	0.609	0.549	9.9		

RF(50) - Response Factor from daily standard file at 50 ug/l
AVE RF - Average Response Factor from initial calibration Form VI
%D - - - Percent Difference
CCC - - Calibration Check Compounds (*)
SPCC - - System Performance Check Compounds (**)
(1) - - Mininum RF for Bromoform is 0.250

MIDRIC
08/19/87 22:23:00
DATA: V0819B5P #1
CALI: V0819B5P #2
SCANS 1 TO 1000
SAMPLE: VOLATILES STANDARD 8/19/87 P.M.
CONDS.: 50 UG/L PURGED
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



Quantitation Report File: V0819B5P

Data: V0819B5P.TI
08/19/87 22:23:00
Sample: VOLATILES STANDARD 8/19/87 P.M.
Conds.: 50 UG/L PURGED
Submitted by: AK Analyst: PAA

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

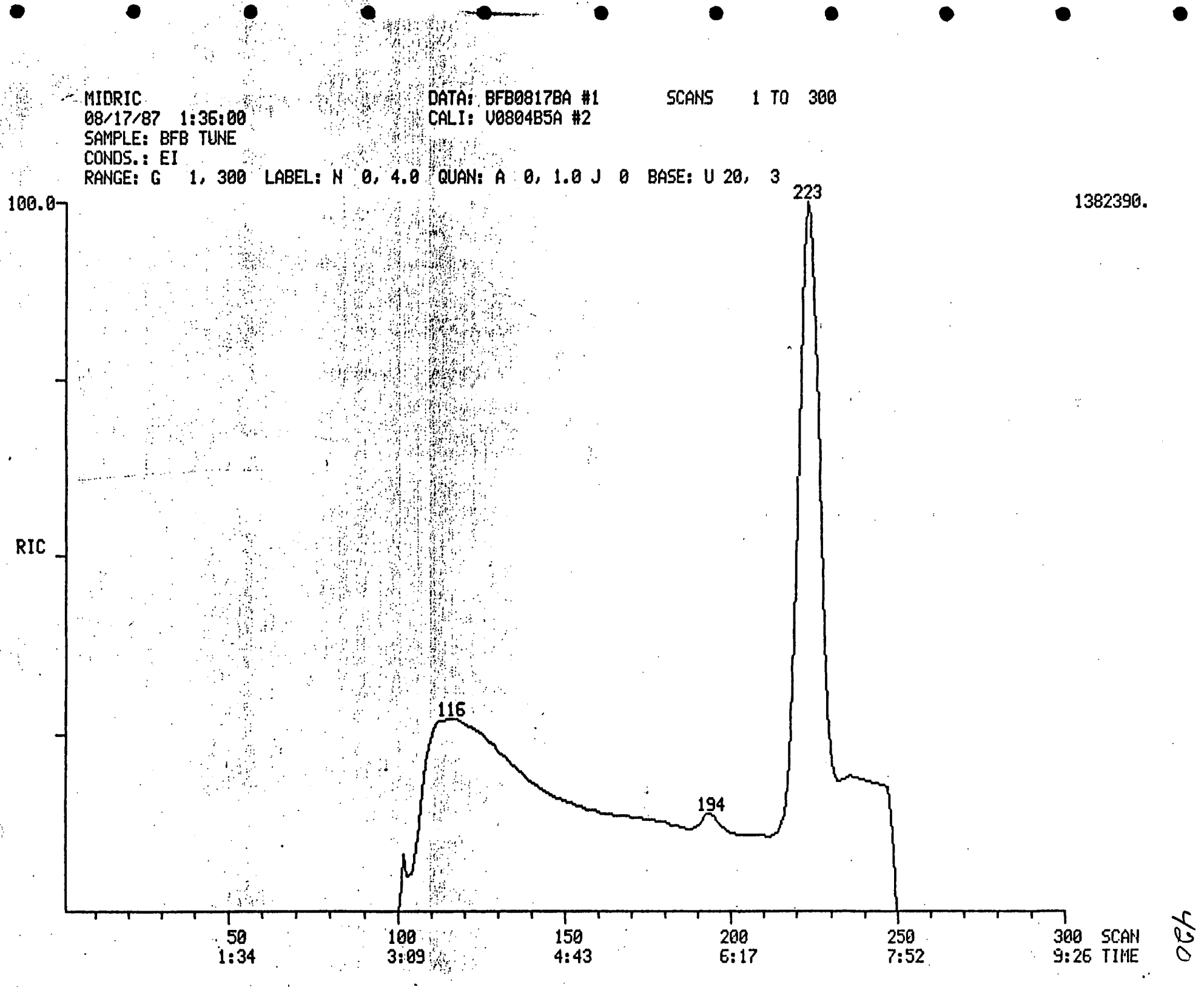
NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	242	7:36	1	1.000	A BB	88296.	50.000 UG/L	2.94
2	114	558	17:32	2	1.000	A BB	415136.	50.000 UG/L	2.94
3	117	706	22:12	3	1.000	A BB	323281.	50.000 UG/L	2.94
4	50	40	1:15	1	0.165	A BB	53957.	50.000 UG/L	2.94
5	94	58	1:49	1	0.240	A BB	135862.	50.000 UG/L	2.94
6	62	73	2:18	1	0.302	A BB	103125.	50.000 UG/L	2.94
7	64	92	2:54	1	0.380	A BB	70831.	50.000 UG/L	2.94
8	84	144	4:32	1	0.595	A BB	103680.	50.000 UG/L	2.94
9	96	226	7:06	1	0.934	A BB	99655.	50.000 UG/L	2.94
10	63	266	8:22	1	1.099	A BB	206045.	50.000 UG/L	2.94
11	96	289	9:05	1	1.194	A BB	107424.	50.000 UG/L	2.94
12	83	309	9:43	1	1.277	A BB	247086.	50.000 UG/L	2.94
13	62	331	10:24	1	1.368	A BB	166021.	50.000 UG/L	2.94
14	97	368	11:34	2	0.659	A BB	192031.	50.000 UG/L	2.94
15	117	380	11:57	2	0.681	A BB	134868.	50.000 UG/L	2.94
16	83	401	12:36	2	0.719	A BB	233428.	50.000 UG/L	2.94
17	63	439	13:48	2	0.787	A BB	128551.	50.000 UG/L	2.94
18	75	449	14:07	2	0.805	A BB	233446.	50.000 UG/L	2.94
19	130	466	14:39	2	0.835	A BB	176893.	50.000 UG/L	2.94
20	129	487	15:19	2	0.873	A BB	192533.	50.000 UG/L	2.94
21	97	490	15:24	2	0.878	A BB	134648.	50.000 UG/L	2.94
22	78	479	15:03	2	0.858	A BB	317300.	50.000 UG/L	2.94
23	75	489	15:22	2	0.876	A BB	98646.	50.000 UG/L	2.94
24	63	521	16:23	2	0.934	A BB	72760.	50.000 UG/L	2.94
25	173	569	17:53	2	1.020	A BB	144933.	50.000 UG/L	2.94
26	164	638	20:03	3	0.904	A BB	170074.	50.000 UG/L	2.94
27	83	640	20:07	3	0.907	A BB	221304.	50.000 UG/L	2.94
28	92	674	21:11	3	0.955	A BB	226840.	50.000 UG/L	2.94
29	112	710	22:19	3	1.006	A BB	323929.	50.000 UG/L	2.94
30	106	763	23:59	3	1.081	A BB	141108.	50.000 UG/L	2.94
31	NOT	FOUND							
32	106	872	27:25	3	1.235	A BB	177475.	50.000 UG/L	2.94
33	65	328	10:19	1	1.355	A BB	144741.	50.000 UG/L	2.94
34	98	669	21:02	3	0.948	A BB	358844.	50.000 UG/L	2.94
35	95	821	25:48	3	1.163	A BB	308281.	50.000 UG/L	2.94

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:36	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:12	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:15	1.00	0.165	1.00	50.00	50.00	0.611	0.611	1.00
5	1:49	1.00	0.240	1.00	50.00	50.00	1.539	1.539	1.00
6	2:18	1.00	0.302	1.00	50.00	50.00	1.168	1.168	1.00
7	2:54	1.00	0.380	1.00	50.00	50.00	0.802	0.802	1.00
8	4:32	1.00	0.595	1.00	50.00	50.00	1.174	1.174	1.00
9	7:06	1.00	0.934	1.00	50.00	50.00	1.129	1.129	1.00
10	8:22	1.00	1.099	1.00	50.00	50.00	2.334	2.334	1.00
11	9:05	1.00	1.194	1.00	50.00	50.00	1.217	1.217	1.00
12	9:43	1.00	1.277	1.00	50.00	50.00	2.798	2.798	1.00
13	10:24	1.00	1.368	1.00	50.00	50.00	1.880	1.880	1.00
14	11:34	1.00	0.659	1.00	50.00	50.00	0.463	0.463	1.00
15	11:57	1.00	0.681	1.00	50.00	50.00	0.325	0.325	1.00
16	12:36	1.00	0.719	1.00	50.00	50.00	0.562	0.562	1.00
17	13:48	1.00	0.787	1.00	50.00	50.00	0.310	0.310	1.00
18	14:07	1.00	0.805	1.00	50.00	50.00	0.562	0.562	1.00
19	14:39	1.00	0.835	1.00	50.00	50.00	0.426	0.426	1.00
20	15:19	1.00	0.873	1.00	50.00	50.00	0.464	0.464	1.00
21	15:24	1.00	0.878	1.00	50.00	50.00	0.324	0.324	1.00
22	15:03	1.00	0.858	1.00	50.00	50.00	0.764	0.764	1.00
23	15:22	1.00	0.876	1.00	50.00	50.00	0.238	0.238	1.00
24	16:23	1.00	0.934	1.00	50.00	50.00	0.175	0.175	1.00
25	17:53	1.00	1.020	1.00	50.00	50.00	0.349	0.349	1.00
26	20:03	1.00	0.904	1.00	50.00	50.00	0.526	0.526	1.00
27	20:07	1.00	0.907	1.00	50.00	50.00	0.685	0.685	1.00
28	21:11	1.00	0.955	1.00	50.00	50.00	0.702	0.702	1.00
29	22:19	1.00	1.006	1.00	50.00	50.00	1.002	1.002	1.00
30	23:59	1.00	1.081	1.00	50.00	50.00	0.436	0.436	1.00
31	26:53		1.208			50.00		0.007	
32	27:25	1.00	1.235	1.00	50.00	50.00	0.549	0.549	1.00
33	10:19	1.00	1.355	1.00	50.00	50.00	1.639	1.639	1.00
34	21:02	1.00	0.948	1.00	50.00	50.00	1.110	1.110	1.00
35	25:48	1.00	1.163	1.00	50.00	50.00	0.954	0.954	1.00

GC/MS TUNE DATA

VOLATILE ORGANICS


MIDRIC
08/17/87 1:36:00
SAMPLE: BFB TUNE
CONDS.: EI
RANGE: G 1, 300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: BFB0817BA #1 SCANS 1 TO 300
CALI: V0804B5A #2
100.0
1382390.
RIC
223
116
194
50
1:34
100
3:09
150
4:43
200
6:17
250
7:52
300 SCAN
9:26 TIME

420

MID Mass List Data: BFB0817BA # 223 Base m/z: 95
08/17/87 1:36:00 + 7:01 Cali: V0804B5A # 2 RIC: 1380350.
Sample: BFB TUNE
Conds.: EI

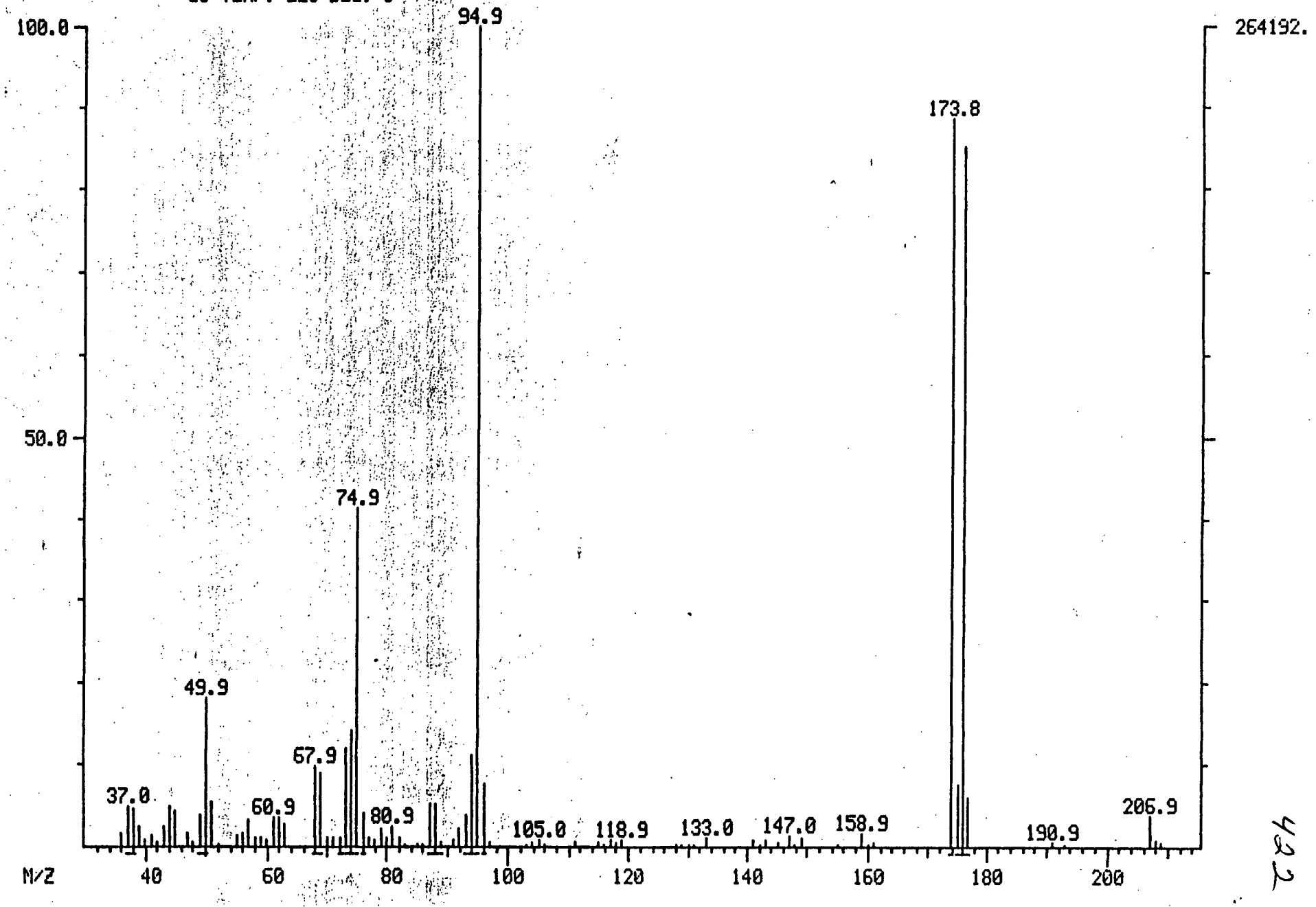
36 0.00 Minima Min inten: 0.
209 # 0 Maxima

Mass	% RA	Mass	% RA
36	1.50	93	3.69
37	4.95	94	11.03
38	4.62	95	100.00
39	2.48	96	7.46
40	0.68	97	0.64
41	1.30	103	0.28
42	0.52	104	0.45
43	2.42	105	0.79
44	4.78	106	0.19
45	4.33	107	0.03
47	1.56	109	0.05
48	0.50	111	0.61
49	3.88	112	0.04
50	17.95	113	0.03
51	5.46	115	0.44
52	0.26	116	0.14
55	1.23	117	0.80
56	1.61	118	0.41
57	3.32	119	0.88
58	0.96	125	0.07
59	0.97	128	0.36
60	0.81	129	0.14
61	3.62	130	0.19
62	3.39	131	0.38
63	2.67	133	1.12
64	0.12	134	0.07
65	0.13	135	0.04
68	9.73	137	0.07
69	8.81	141	0.87
70	0.96	142	0.39
71	1.01	143	0.69
72	1.04	145	0.55
73	11.89	147	1.41
74	13.98	148	0.29
75	41.28	149	1.14
76	3.93	155	0.18
77	1.14	159	1.65
78	0.68	160	0.15
79	2.12	161	0.57
80	0.99	174	88.76
81	2.46	175	7.59
82	1.01	176	85.17
83	0.28	177	5.97
84	0.03	178	0.03
85	0.25	191	0.62
86	0.19	193	0.25
87	5.09	207	3.83
88	5.21	208	0.76
89	0.61	209	0.41
91	0.70		
92	2.14		

MID MASS SPECTRUM
08/17/87 1:36:00 + 7:01
SAMPLE: BFB TUNE
CONDS.: EI
GC TEMP: 223 DEG. C

DATA: BFB0817BA #223
CALI: V0804B5A #2

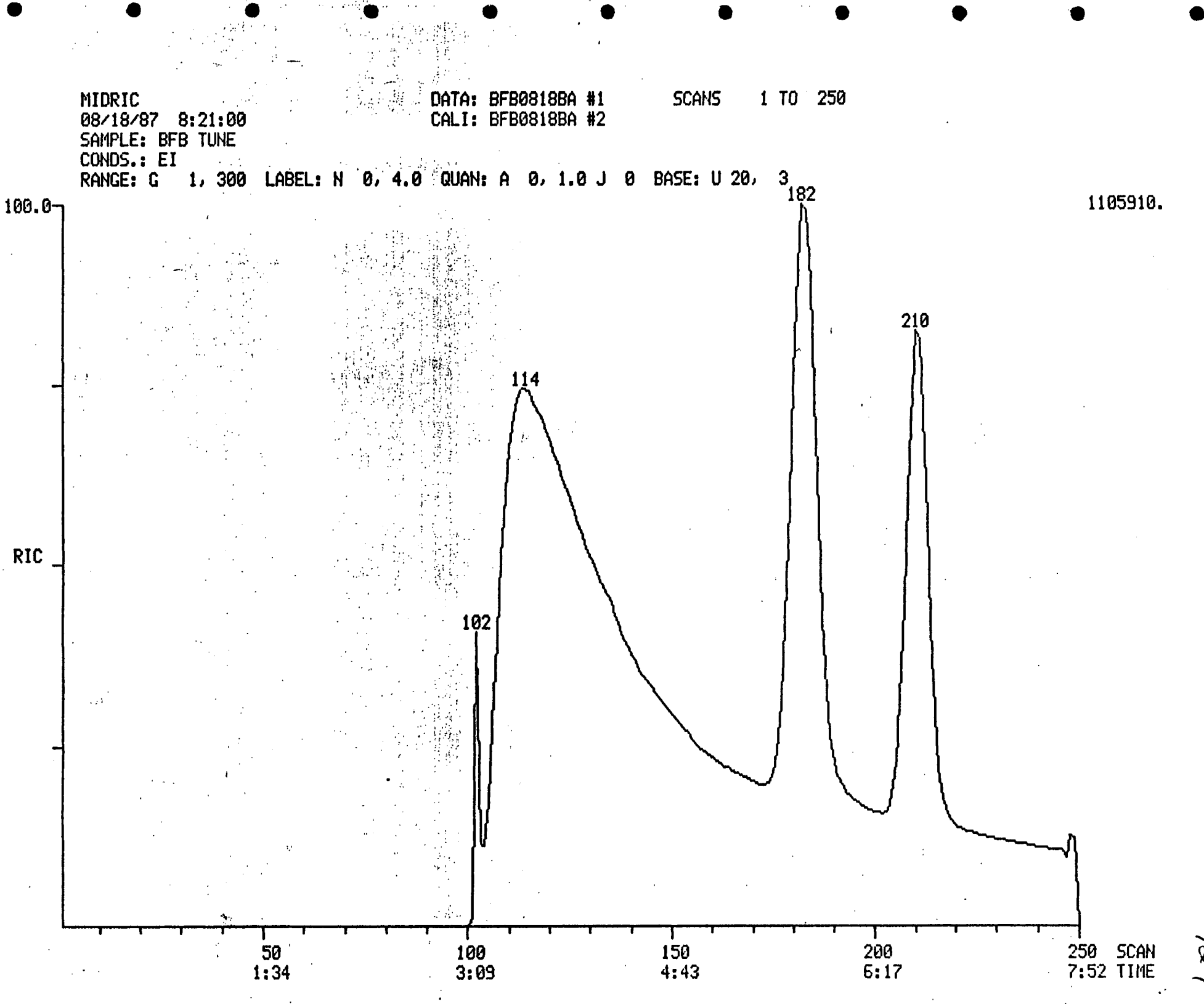
BASE M/Z: 95
RIC: 1380350.



422

GC/MS TUNE DATA

VOLATILE ORGANICS


MIDRIC
08/18/87 8:21:00
SAMPLE: BFB TUNE
CONDS.: EI
DATA: BFB0818BA #1
CALI: BFB0818BA #2
SCANS 1 TO 250
RANGE: G 1, 300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
100.0
1105910.
RIC
102
114
182
210
50
1:34
100
3:09
150
4:43
200
6:17
250 SCAN
7:52 TIME

MID Mass List Data: BFB0818BA # 211 Base m/z: 95
08/18/87 8:21:00 + 6:38 Cali: BFB0818BA # 2 RIC: 897024.
Sample: BFB TUNE
Conds.: EI

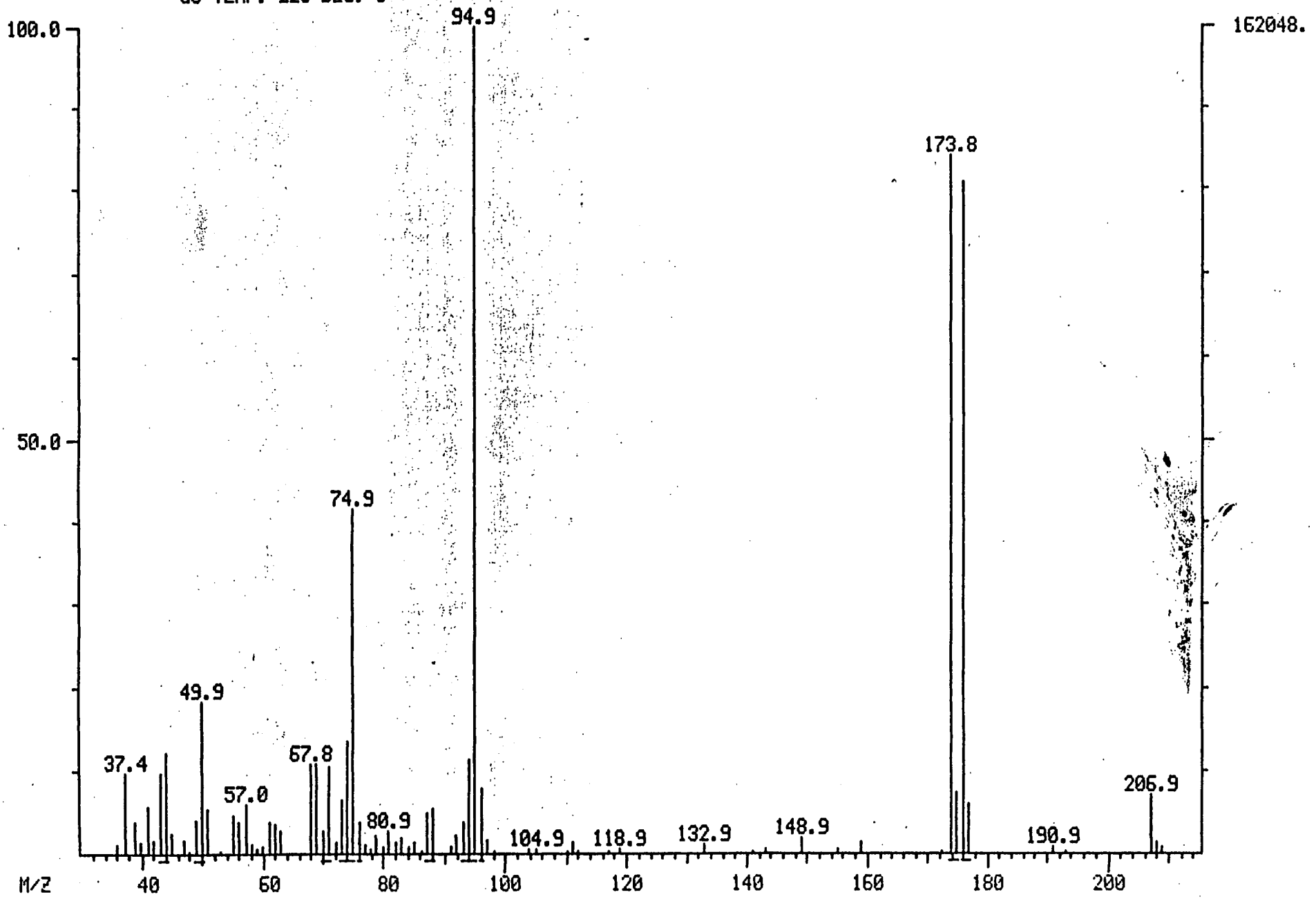
36 0.00 Minima Min inten: 0.
209 # 0 Maxima

Mass	% RA	Mass	% RA
36	0.96	93	3.85
37	9.75	94	11.26
39	3.78	95	100.00
40	1.22	96	7.81
41	5.69	97	1.73
42	1.68	98	0.30
43	9.76	104	0.49
44	12.07	105	0.63
45	2.51	106	0.07
47	1.57	110	0.29
48	0.30	111	1.26
49	4.07	112	0.31
50	18.15	117	0.20
51	5.50	119	0.58
52	0.08	133	1.10
53	0.39	141	0.36
54	0.07	143	0.66
55	4.66	149	1.83
56	3.69	155	0.49
57	5.95	159	1.21
58	0.94	161	0.06
59	0.61	172	0.18
60	0.94	174	84.20
61	3.68	175	7.16
62	3.55	176	81.04
63	2.70	177	5.82
65	0.05	191	0.89
68	10.84	193	0.16
69	10.82	207	6.98
70	2.72	208	1.38
71	10.53	209	0.73
72	1.24		
73	6.47		
74	13.49		
75	41.63		
76	3.87		
77	1.15		
78	0.44		
79	2.21		
80	0.87		
81	2.81		
82	1.28		
83	1.89		
84	0.83		
85	1.24		
86	0.24		
87	4.88		
88	5.48		
89	0.10		
91	0.74		
92	2.12		

MID MASS SPECTRUM
08/18/87 8:21:00 + 6:38
SAMPLE: BFB TUNE
CONDS.: EI
GC TEMP: 223 DEG. C

DATA: BFB0818BA #211
CALI: BFB0818BA #2

BASE M/Z: 95
RIC: 897024.

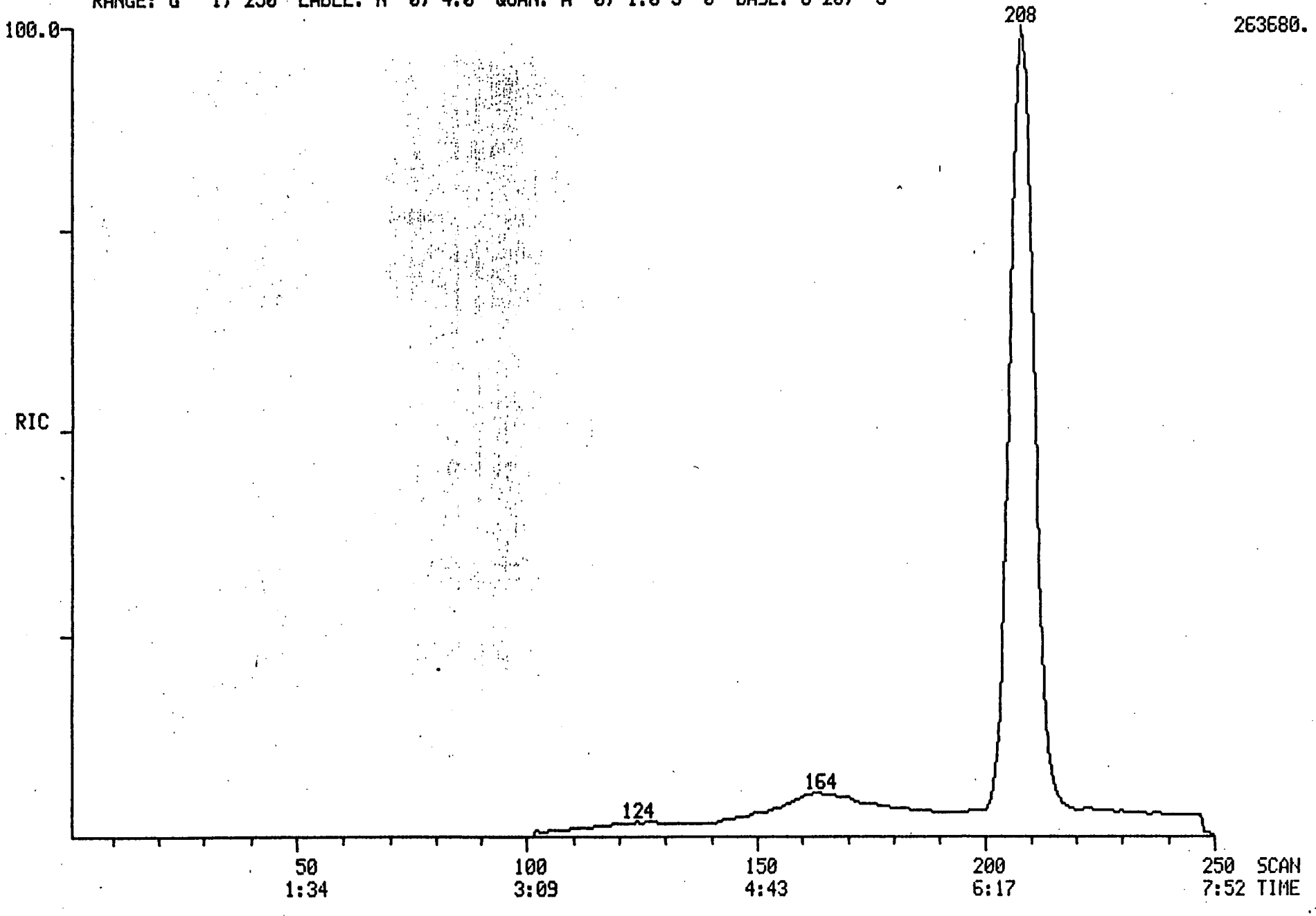


GC/MS TUNE DATA

VOLATILE ORGANICS

MIDRIC
08/18/87 19:56:00
SAMPLE: BFB TUNE
CONDS.: EI
RANGE: G 1, 250 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BFB0818BP #207 SCANS 1 TO 250
CALI: 14558V4R2 #2



MID Mass List Data: BFB0818BP # 207 Base m/z: 95
08/18/87 19:56:00 + 6:30 Cali: 14558V4R2 # 2 RIC: 247040.
Sample: BFB TUNE
Conds.: EI

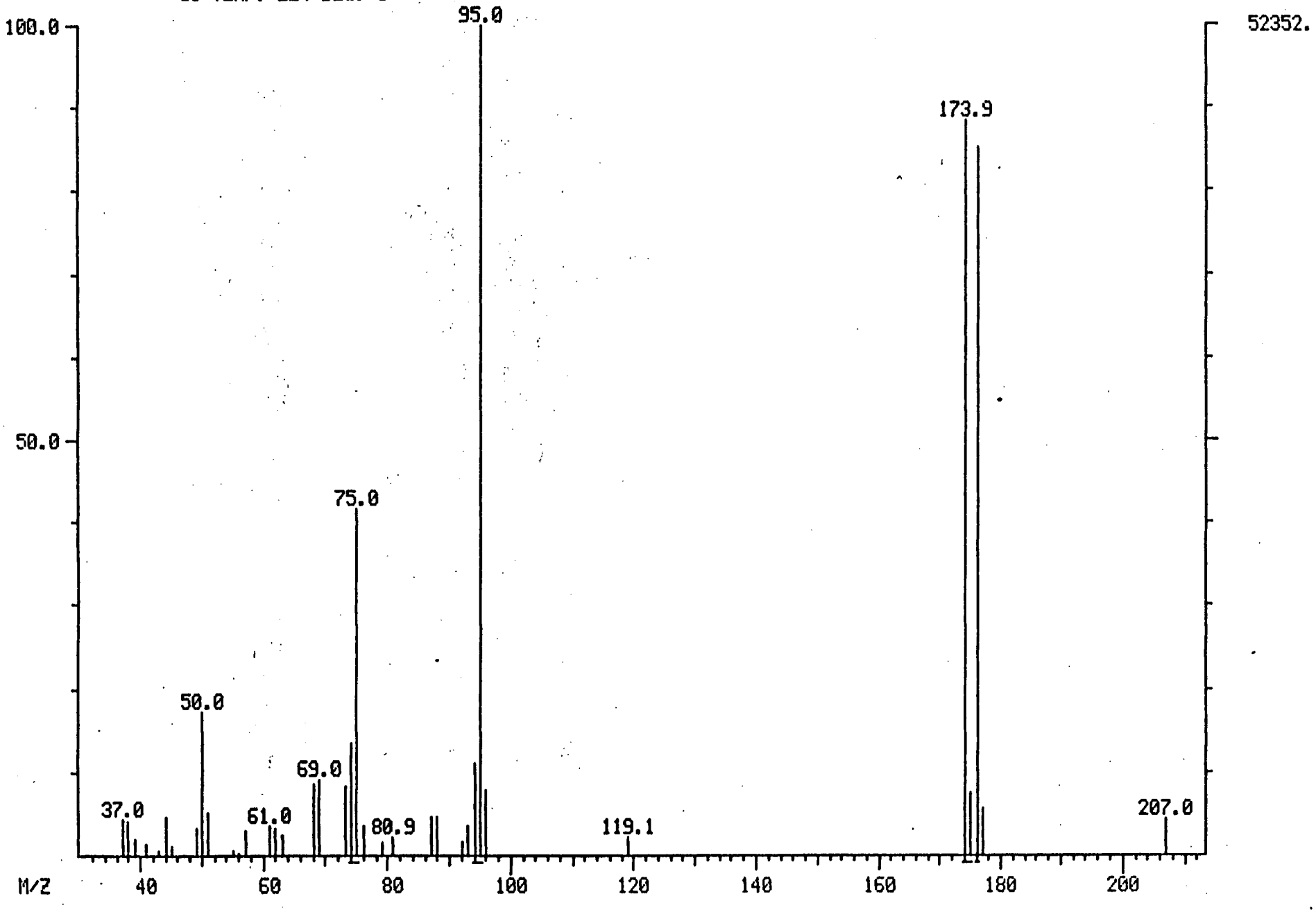
37 0.00 Minima Min inten: 0.
207 # 0 Maxima

Mass	% RA
37	4.27
38	4.07
39	1.91
41	1.22
43	0.49
44	4.45
45	0.98
49	3.35
50	17.24
51	5.17
55	0.48
56	0.30
57	3.05
61	3.48
62	3.34
63	2.40
68	8.73
69	9.23
73	8.27
74	13.42
75	41.69
76	3.41
79	1.62
81	2.12
87	4.52
88	4.61
92	1.50
93	3.43
94	10.99
95	100.00
96	7.70
119	2.14
174	88.39
175	7.52
176	85.33
177	5.72
207	4.28

MID MASS SPECTRUM
08/18/87 19:56:00 + 6:30
SAMPLE: BFB TUNE
CONDS.: EI
GC TEMP: 224 DEG. C

DATA: BFB0818BP #207
CALI: 14558V4R2 #2

BASE M/Z: 95
RIC: 247040.



4/30

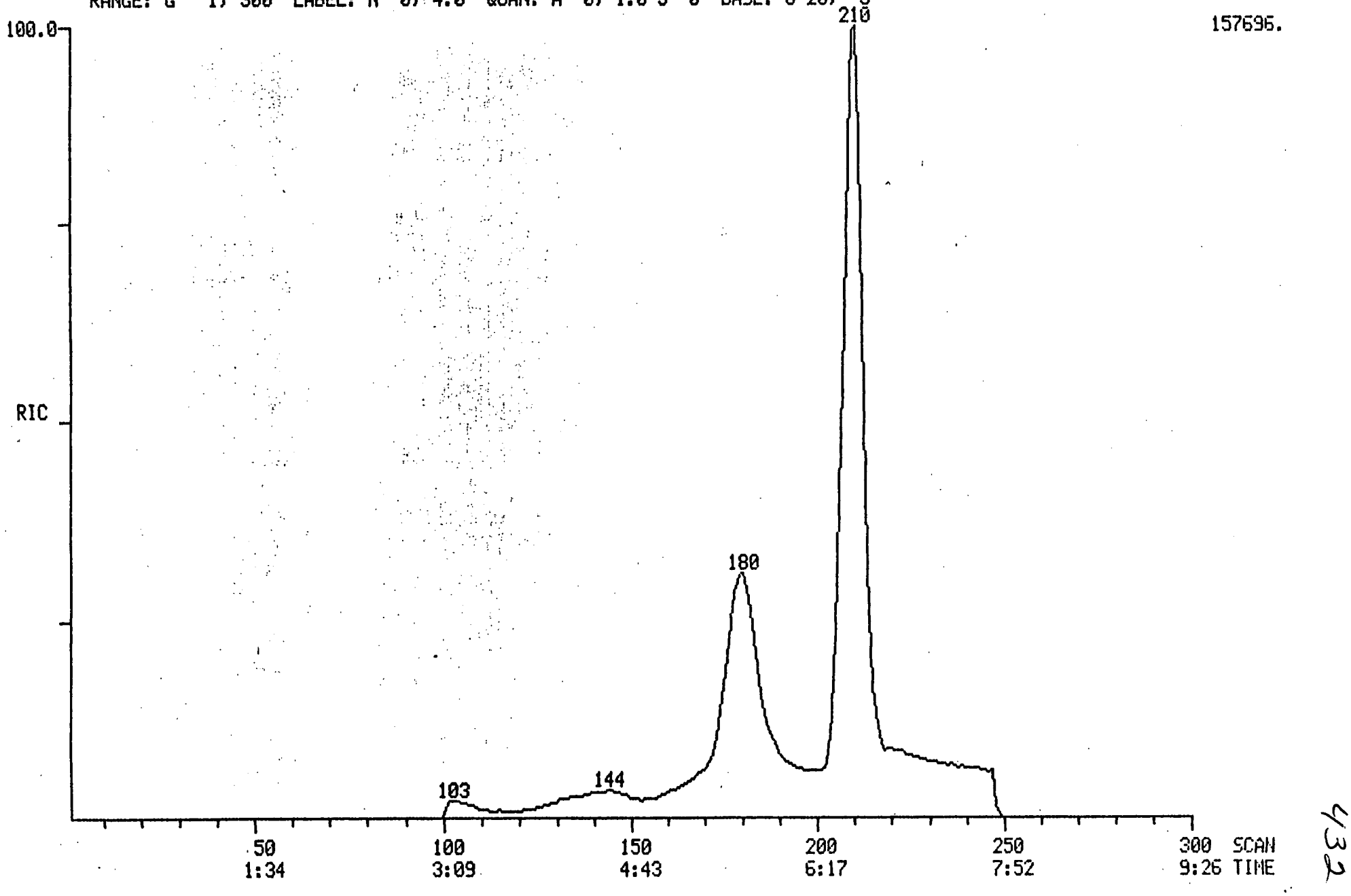
GC/MS TUNE DATA

VOLATILE ORGANICS

MIDRIC
08/19/87 9:11:00
SAMPLE: BFB TUNE
CONDS.: EI
RANGE: G 1, 300 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BFB0819BA #1
CALI: 14558V8 #2

SCANS 1 TO 300



4/32

ACQUISITION STARTED: ANALYSIS NO. 1 RACK NO. 15 VIAL NO. 25
FREE SECTORS: 18214 FILENAME: V0819B5A

GC/MS Tuning and Mass Calibration

MID Mass List Data: BFB0819BA # 210 Base m/z: 95
08/19/87 9:11:00 + 6:36 Cali: 14558V8 # 2 RIC: 292864.
Sample: BFB TUNE
Conds.: EI
#210 to #211 Summed

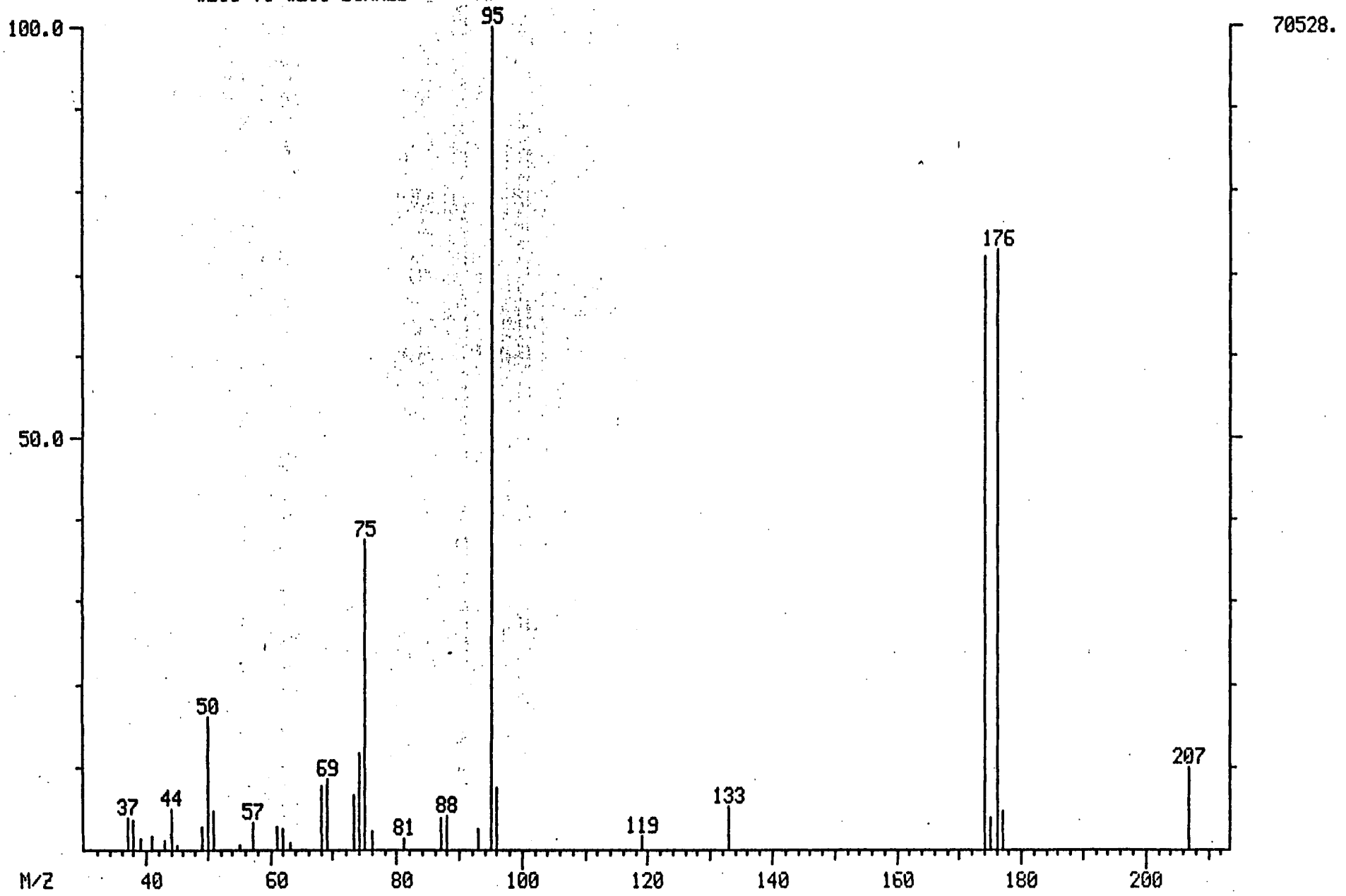
37 0.00 Minima Min inten: 0.
207 # 0 Maxima

Mass	% RA
37	3.89
38	3.55
39	1.50
41	1.75
43	1.12
44	5.00
45	0.67
49	2.84
50	15.93
51	4.75
55	0.42
57	3.41
61	2.70
62	2.47
63	0.89
68	7.71
69	8.55
73	6.74
74	11.71
75	37.70
76	2.28
81	1.33
87	3.82
88	4.26
93	2.39
95	100.00
96	7.34
119	1.73
133	5.38
174	72.23
175	3.73
176	72.87
177	4.68
207	9.83

MID MASS SPECTRUM
08/19/87 9:11:00 + 6:36
SAMPLE: BFB TUNE
CONDS.: EI
GC TEMP: 223 DEG. C
#210 TO #211 SUMMED

DATA: BFB0819BA #210
CALI: 14558V8 #2

BASE M/Z: 95
RIC: 292864.



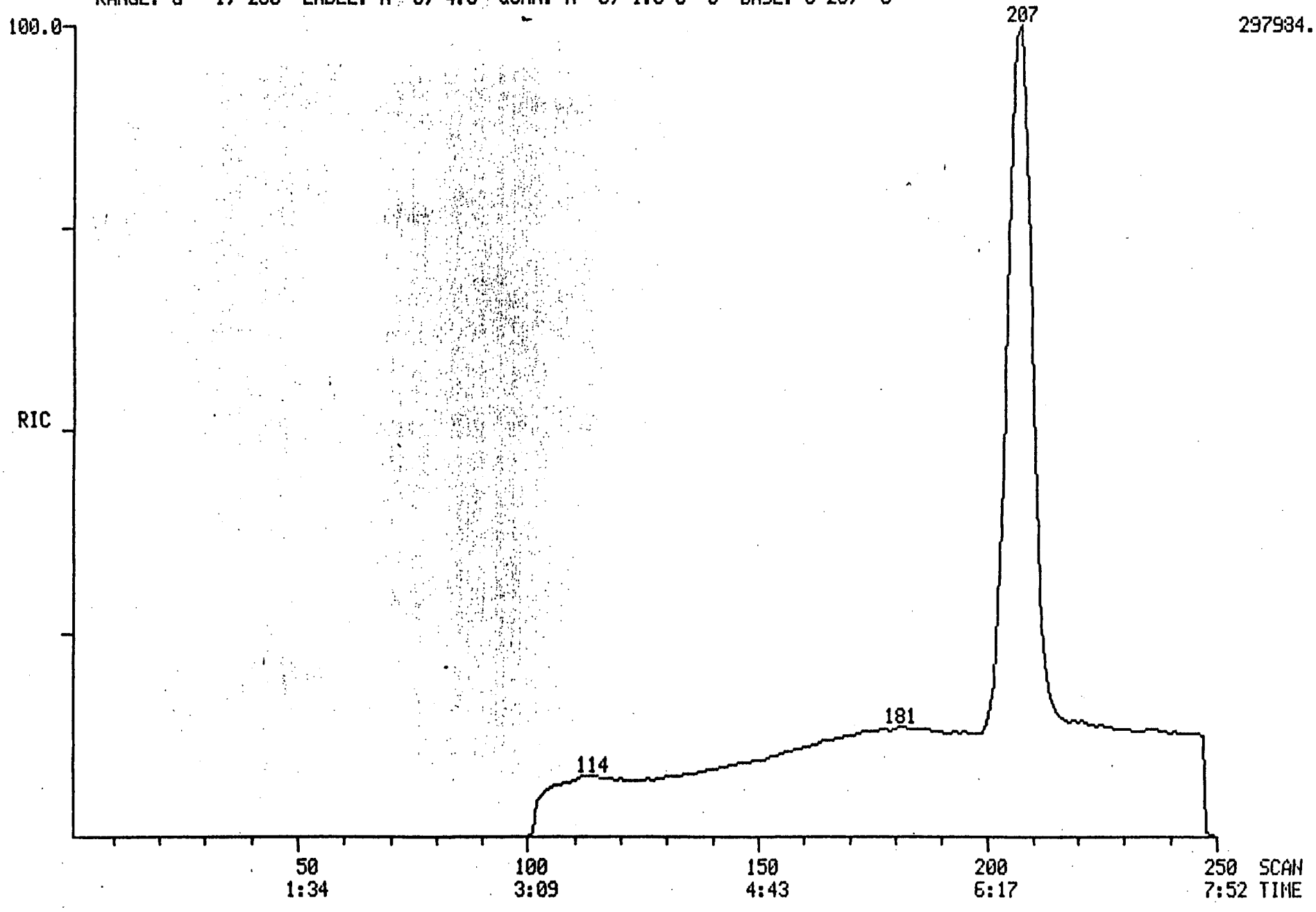
434

GC/MS TUNE DATA

VOLATILE ORGANICS

MIDRIC
08/19/87 22:06:00
SAMPLE: BFB TUNE
CONDS.: EI
RANGE: G 1, 250 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: BFB0819BP #207 SCANS 1 TO 250
CALI: BFB0819BP #2



436

MID Mass List Data: BFB0819BP # 207 Base m/z: 95
08/19/87 22:06:00 + 6:30 Cali: BFB0819BP # 2 RIC: 297984.
Sample: BFB TUNE
Conds.: EI

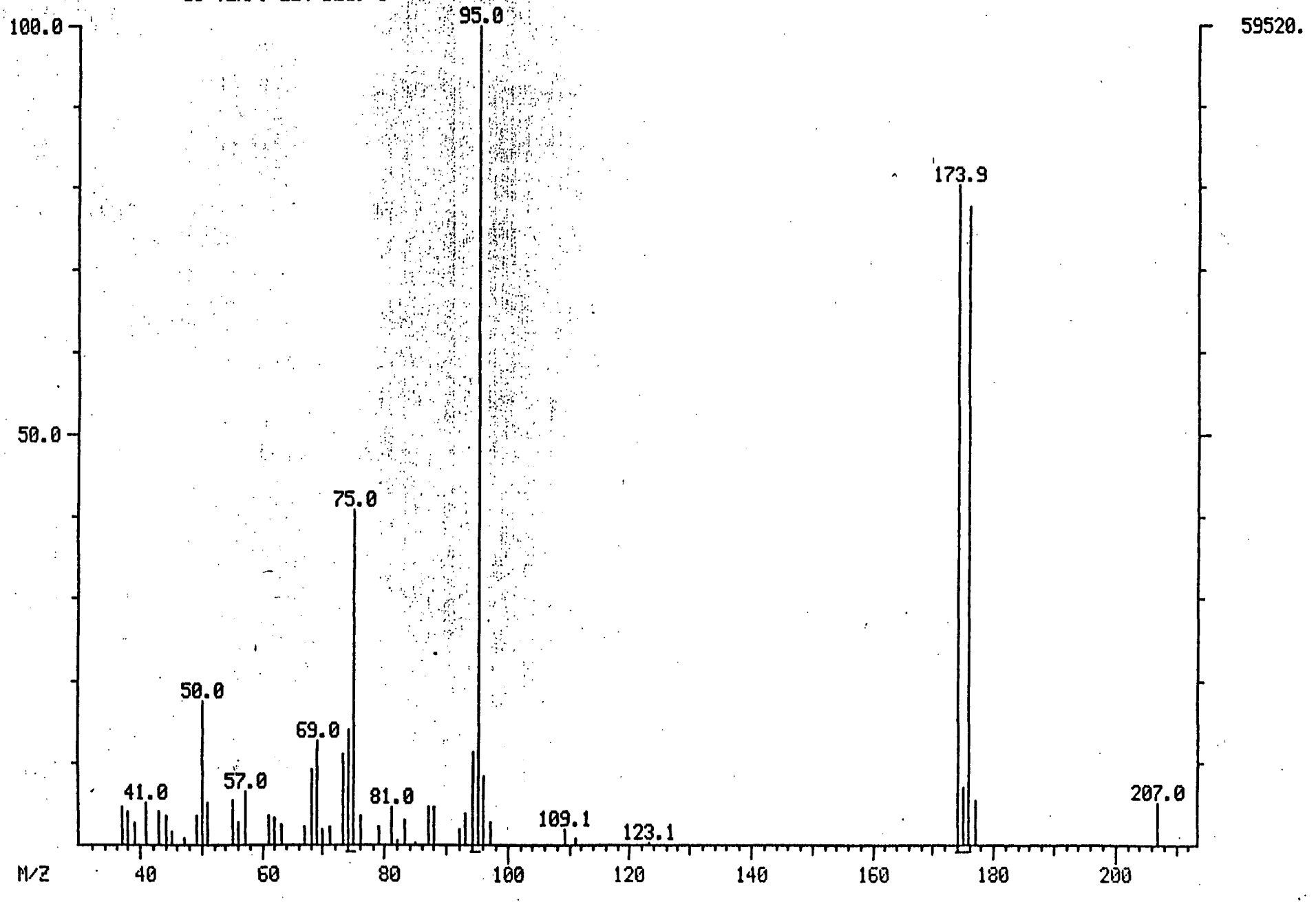
37 0.00 Minima Min inten: 0.
207 # 0 Maxima

Mass	% RA
37	4.49
38	4.11
39	2.62
41	5.09
43	4.13
44	3.60
45	1.60
47	0.87
49	3.51
50	17.61
51	5.09
55	5.38
56	2.63
57	6.47
61	3.40
62	3.32
63	2.36
67	2.16
68	9.17
69	12.54
70	1.88
71	2.23
73	11.14
74	13.98
75	40.91
76	3.55
79	2.28
81	4.54
82	0.61
83	2.87
85	0.37
87	4.46
88	4.59
92	1.83
93	3.70
94	11.29
95	100.00
96	8.41
97	2.80
109	1.89
111	0.86
123	0.31
174	80.43
175	6.91
176	77.74
177	5.43
207	5.02

MID MASS SPECTRUM
08/19/87 22:06:00 + 6:30
SAMPLE: BFB TUNE
CONDS.: EI
GC TEMP: 224 DEG. C

DATA: BFB0819BP #207
CALI: BFB0819BP #2

BASE M/Z: 95
RIC: 297984.



MATRIX BLANK

VOLATILE ORGANICS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AQBLNK8-17A

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: AQBLNK8-17A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VB08175WA

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. Date Analyzed: 08/17/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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
110-75-8	2-Chloroethylvinylether	10	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	10	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
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AQBLNK8-17A

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14538 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AQBLNK8-17A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VB0817BWA

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. ____ Date Analyzed: 08/17/87

Column (pack/cap) PACKED Dilution Factor: 1.00

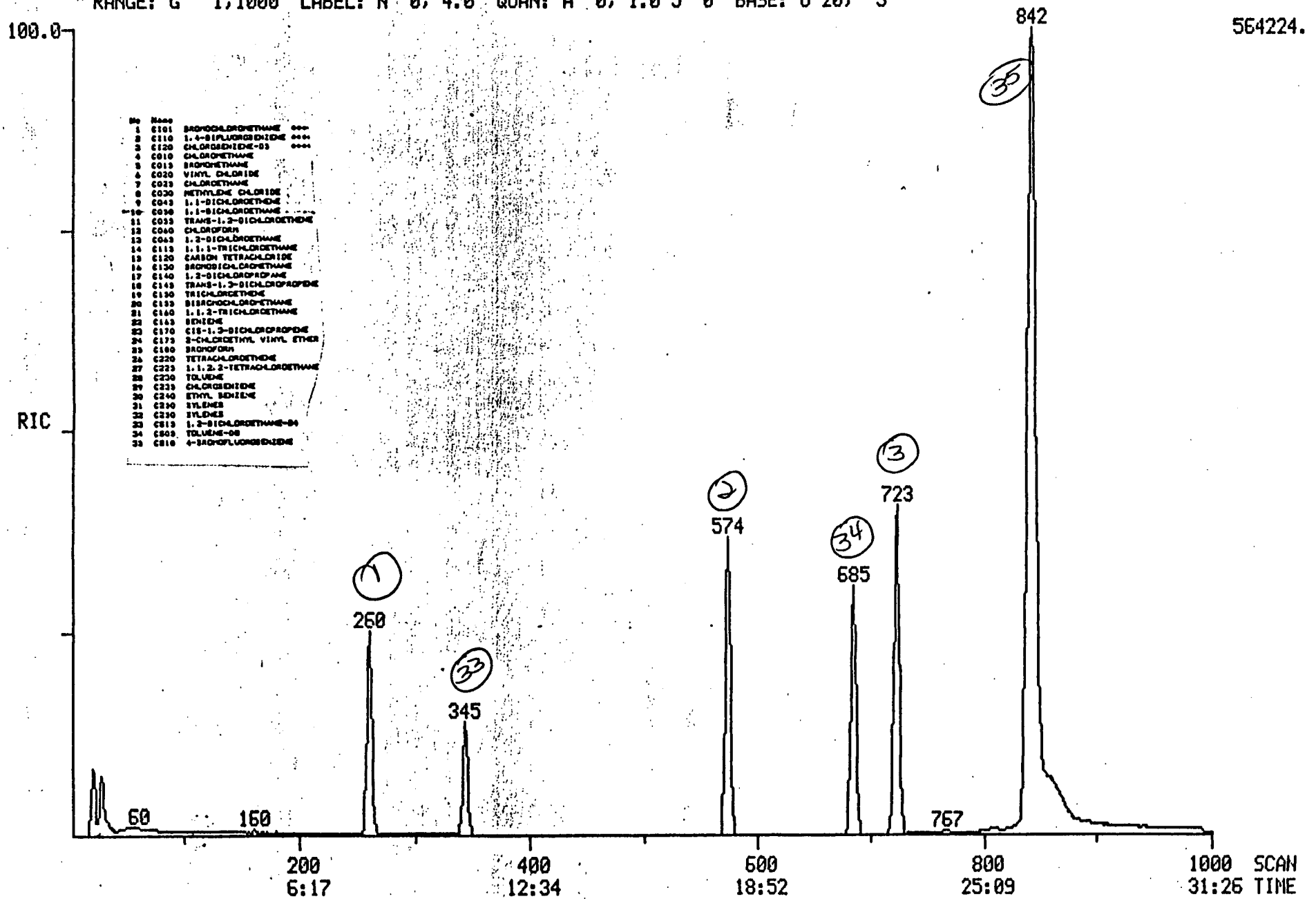
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NONE DETECTED			

MIDRIC
08/17/87 7:08:00
SAMPLE: AQ BLANK
CONDS.: 5ML PURGE
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VB0817BWA #1 SCANS 1 TO 1000
CALI: V0817B5AR #2



Quantitation Report File: VB0817BWA

Data: VB0817BWA.TI
08/17/87 7:08:00
Sample: AQ BLANK
Conds.: 5ML PURGE
Submitted by: AK Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	260	8:10	1	1.000	A BB	110967.	50.000 UG/L	16.98
2	114	574	18:03	2	1.000	A BB	534698.	50.000 UG/L	16.98
3	117	723	22:44	3	1.000	A BB	432381.	50.000 UG/L	16.98
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	84	161	5:04	1	0.619	A BB	~~702.~~	~~0.264 UG/L~~	~~0.09~~
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
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	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	65	345	10:51	1	1.327	A BB	145004.	45.278 UG/L	15.38
34	98	685	21:32	3	0.947	A BB	379088.	49.328 UG/L	16.76
35	95	840	26:24	3	1.162	A BB	333918.	49.552 UG/L	16.83

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:09	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:59	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:36	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:27		0.178			50.00		0.614	
5	2:06		0.259			50.00		1.282	
6	2:38		0.324			50.00		1.017	
7	3:18		0.405			50.00		0.665	
8	5:02	1.01	0.618	1.00	0.26	50.00	0.006	1.200	0.01
9	7:38		0.938			50.00		1.083	
10	8:52		1.089			50.00		2.298	
11	9:35		1.178			50.00		1.303	
12	10:13		1.255			50.00		2.969	
13	10:53		1.336			50.00		1.903	
14	12:04		0.671			50.00		0.452	
15	12:25		0.691			50.00		0.303	
16	13:05		0.727			50.00		0.553	
17	14:16		0.794			50.00		0.306	
18	14:33		0.809			50.00		0.555	
19	15:05		0.839			50.00		0.428	
20	15:45		0.876			50.00		0.442	
21	15:51		0.881			50.00		0.317	
22	15:30		0.862			50.00		0.753	
23	15:47		0.878			50.00		0.234	
24	16:47		0.934			50.00		0.147	
25	18:20		1.019			50.00		0.335	
26	20:30		0.907			50.00		0.493	
27	20:32		0.908			50.00		0.626	
28	21:38		0.957			50.00		0.650	
29	22:44		1.006			50.00		0.907	
30	24:27		1.082			50.00		0.402	
31	27:27		1.214			100.00		0.005	
32	28:04		1.242			50.00		0.448	
33	10:47	1.01	1.324	1.00	45.28	50.00	1.307	1.443	0.91
34	21:26	1.00	0.949	1.00	49.33	50.00	0.877	0.889	0.99
35	26:19	1.00	1.164	1.00	49.55	50.00	0.772	0.779	0.99

MATRIX BLANK

VOLATILE ORGANICS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AQBLNK8-18A

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14538 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AQBLNK8-18A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V8081SBWA

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. ____ Date Analyzed: 08/18/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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
110-75-8	2-Chloroethylvinylether	10	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	10	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
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG

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

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

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed

Column (pack/cap) PACKED Dilution Fac

CONCENTRATION UNIT
(ug/L or ug/Kg) UG

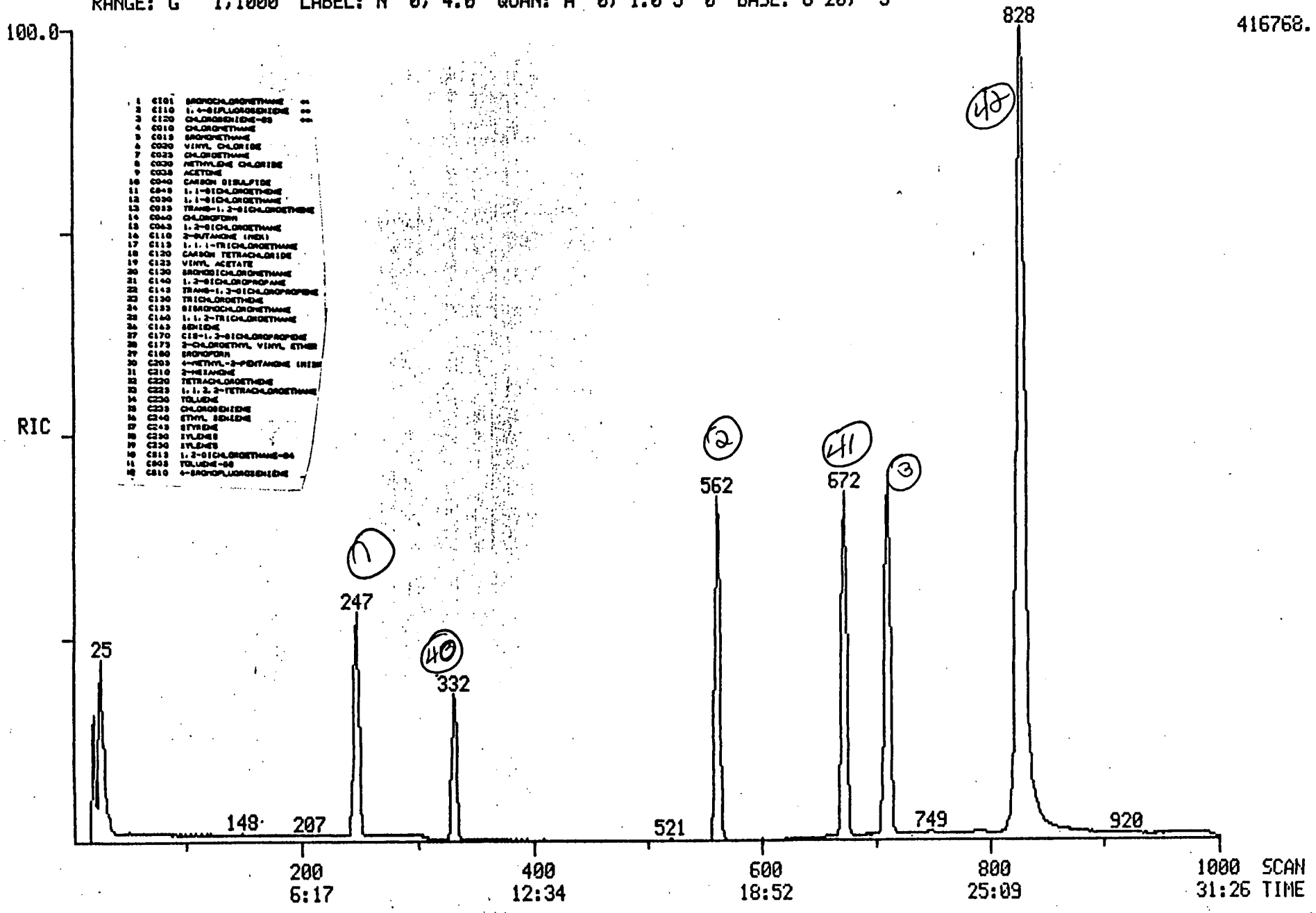
Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT
	NONE DETECTED	

MIDRIC
08/18/87 15:51:00
SAMPLE: AQ BLANK
CONDS.: 5.0 ML PURGE
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VB0818BWA #1
CALI: VB0818BWA #2

SCANS 1 TO 1000



Quantitation Report File: VB0818BWA

Data: VB0818BWA.TI
08/18/87 15:51:00
Sample: AQ BLANK
Conds.: 5.0 ML PURGE
Submitted by: AK Analyst: PAA

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

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

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	128	247	7:46	1	1.000	A BB	86691.	50.000 UG/L	16.70	
2	114	562	17:40	2	1.000	A BB	427270.	50.000 UG/L	16.70	
3	117	710	22:19	3	1.000	A BB	337675.	50.000 UG/L	16.70	
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	NOT FOUND									
15	NOT FOUND									
16	NOT FOUND									
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	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	NOT FOUND									
37	NOT FOUND									
38	NOT FOUND									
39	NOT FOUND									
40	65	332	10:26	1	1.344	A BB	139508.	46.017 UG/L	15.37	Yes PA
41	98	672	21:07	3	0.946	A BB	377689.	49.819 UG/L	16.64	Yes PA
42	95	826	25:58	3	1.163	A BB	335749.	53.515 UG/L	17.88	Yes PA

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:42	1.01	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:19	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19		0.171			50.00		0.658	
5	1:53		0.245			50.00		1.406	
6	2:20		0.302			50.00		1.312	
7	2:52		0.371			50.00		0.813	
8	4:33		0.592			50.00		1.190	
9	5:07		0.665			50.00		0.443	
10	5:53		0.763			50.00		3.284	
11	7:12		0.935			50.00		1.142	
12	8:27		1.098			50.00		2.324	
13	9:13		1.196			50.00		1.243	
14	9:52		1.282			50.00		3.003	
15	10:34		1.371			50.00		2.029	
16	10:28		0.591			50.00		0.174	
17	11:44		0.663			50.00		0.449	
18	12:06		0.684			50.00		0.289	
19	12:21		0.698			50.00		0.702	
20	12:46		0.721			50.00		0.513	
21	13:57		0.789			50.00		0.319	
22	14:16		0.806			50.00		0.564	
23	14:48		0.837			50.00		0.434	
24	15:30		0.876			50.00		0.385	
25	15:34		0.879			50.00		0.325	
26	15:13		0.860			50.00		0.776	
27	15:32		0.877			50.00		0.244	
28	16:32		0.934			50.00		0.202	
29	18:03		1.020			50.00		0.288	
30	18:23		0.824			50.00		0.545	
31	19:52		0.890			50.00		0.419	
32	20:13		0.906			50.00		0.505	
33	20:15		0.907			50.00		0.756	
34	21:19		0.955			50.00		0.710	
35	22:27		1.006			50.00		0.974	
36	24:07		1.080			50.00		0.436	
37	26:49		1.201			50.00		0.976	
38	27:36		1.237			150.00		0.626	
39	27:40		1.238			50.00		0.574	
40	10:26	1.00	1.355	0.99	46.02	50.00	1.609	1.749	0.92
41	21:09	1.00	0.948	1.00	49.82	50.00	1.118	1.123	1.00
42	25:58	1.00	1.163	1.00	53.51	50.00	0.994	0.929	1.07

MATRIX BLANK

VOLATILE ORGANICS

EPA SAMPLE NO.

NABLNK8-18A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14588 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: NABLNK8-18A

Sample wt/vol: _____ (g/mL) G Lab File ID: VB0818SSA

Level: (low/med) MED Date Received: 08/11/87

% Moisture: not dec. _____ Date Analyzed: 08/18/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	330	U
74-83-9	Bromomethane	330	U
75-01-4	Vinyl Chloride	330	U
75-00-3	Chloroethane	330	U
75-09-2	Methylene Chloride	330	U
67-64-1	Acetone	330	U
75-15-0	Carbon Disulfide	330	U
75-35-4	1,1-Dichloroethene	330	U
75-34-3	1,1-Dichloroethane	330	U
540-59-0	1,2-Dichloroethene (total)	330	U
67-66-3	Chloroform	330	U
107-06-2	1,2-Dichloroethane	330	U
78-93-3	2-Butanone	330	U
71-55-6	1,1,1-Trichloroethane	330	U
56-23-5	Carbon Tetrachloride	330	U
108-05-4	Vinyl Acetate	330	U
75-27-4	Bromodichloromethane	330	U
78-87-5	1,2-Dichloropropane	330	U
10061-01-5	cis-1,3-Dichloropropene	330	U
79-01-6	Trichloroethene	330	U
124-48-1	Dibromochloromethane	330	U
79-00-5	1,1,2-Trichloroethane	330	U
71-43-2	Benzene	330	U
10061-02-6	Trans-1,3-Dichloropropene	330	U
110-75-8	2-Chloroethylvinylether	330	U
75-25-2	Bromoform	330	U
108-10-1	4-Methyl-2-Pentanone	330	U
591-78-6	2-Hexanone	330	U
127-18-4	Tetrachloroethene	330	U
79-34-5	1,1,2,2-Tetrachloroethane	330	U
108-88-3	Toluene	330	U
108-90-7	Chlorobenzene	330	U
100-41-4	Ethylbenzene	330	U
100-42-5	Styrene	330	U
----------	Total Xylenes		

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: NABLNK8-18A

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: NABLNK8-18A

Sample wt/vol: _____ (g/mL) G Lab File ID: V8031858A

Level: (low/med) MED Date Received: 08/11/87

% Moisture: not dec. ____ Date Analyzed: 08/18/87

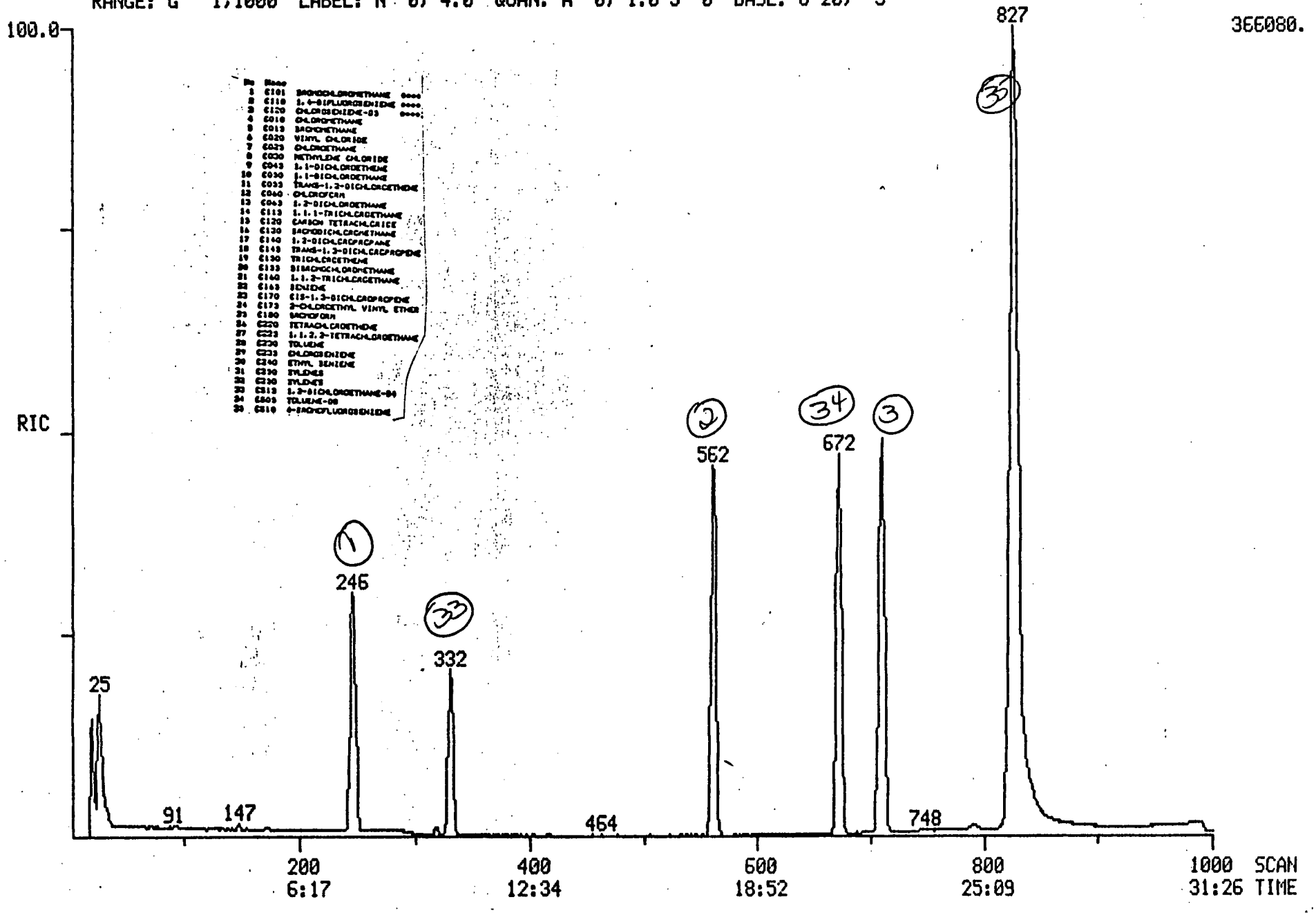
Column (pack/cap) PACKED Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NONE DETECTED			

MIDRIC
08/18/87 18:03:00
SAMPLE: NA BLANK
CONDS.: 100 UL PURGE
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VB0818BSA #1 SCANS 1 TO 1000
CALI: 14558V11 #2



4/55

Quantitation Report File: VB0818BSA

Data: VB0818BSA.TI
08/18/87 18:03:00
Sample: NA BLANK
Conds.: 100 UL PURGE
Submitted by: AK Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	128	246	7:44	1	1.000	A BB	82004.	50.000	UG/L	16.56	
2	114	562	17:40	2	1.000	A BB	415365.	50.000	UG/L	16.56	
3	117	710	22:19	3	1.000	A BB	327745.	50.000	UG/L	16.56	
4	NOT FOUND										
5	NOT FOUND										
6	NOT FOUND										
7	NOT FOUND										
8	84	147	4:37	1	0.598	A BB	~~1383.~~	~~0.709~~	~~UG/L~~	~~0.23~~	no PA
9	NOT FOUND										
10	NOT FOUND										
11	NOT FOUND										
12	NOT FOUND										
13	NOT FOUND										
14	NOT FOUND										
15	NOT FOUND										
16	NOT FOUND										
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	NOT FOUND										
28	NOT FOUND										
29	NOT FOUND										
30	NOT FOUND										
31	NOT FOUND										
32	NOT FOUND										
33	65	332	10:26	1	1.350	A BB	138398.	48.260	UG/L	15.98	yes PA
34	98	672	21:07	3	0.946	A BB	367038.	49.881	UG/L	16.52	yes PA
35	95	825	25:56	3	1.162	A BB	323525.	53.129	UG/L	17.59	yes PA

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:19	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19		0.171			50.00		0.658	
5	1:53		0.245			50.00		1.406	
6	2:20		0.302			50.00		1.312	
7	2:52		0.371			50.00		0.813	
8	4:33	1.01	0.592	1.01	0.71	50.00	0.017	1.190	0.01
9	7:12		0.935			50.00		1.142	
10	8:27		1.098			50.00		2.324	
11	9:13		1.196			50.00		1.243	
12	9:52		1.282			50.00		3.003	
13	10:34		1.371			50.00		2.029	
14	11:44		0.663			50.00		0.449	
15	12:06		0.684			50.00		0.289	
16	12:46		0.721			50.00		0.513	
17	13:57		0.789			50.00		0.319	
18	14:16		0.806			50.00		0.564	
19	14:48		0.837			50.00		0.434	
20	15:30		0.876			50.00		0.385	
21	15:34		0.879			50.00		0.325	
22	15:13		0.860			50.00		0.776	
23	15:32		0.877			50.00		0.244	
24	16:32		0.934			50.00		0.202	
25	18:03		1.020			50.00		0.288	
26	20:13		0.906			50.00		0.505	
27	20:15		0.907			50.00		0.756	
28	21:19		0.955			50.00		0.710	
29	22:27		1.006			50.00		0.974	
30	24:07		1.080			50.00		0.436	
31	27:36		1.237			150.00		0.626	
32	27:40		1.238			50.00		0.574	
33	10:26	1.00	1.355	1.00	48.26	50.00	1.688	1.749	0.97
34	21:09	1.00	0.948	1.00	49.88	50.00	1.120	1.123	1.00
35	25:58	1.00	1.163	1.00	53.13	50.00	0.987	0.929	1.06

MATRIX BLANK

VOLATILE ORGANICS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

NABLNK8-18F

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: NABLNK8-18F

Sample wt/vol: (g/mL) G Lab File ID: VB081888F

Level: (low/med) MED Date Received: 08/11/87

% Moisture: not dec. Date Analyzed: 08/18/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	330	U
74-83-9	Bromomethane	330	U
75-01-4	Vinyl Chloride	330	U
75-00-3	Chloroethane	330	U
75-09-2	Methylene Chloride	330	U
67-64-1	Acetone	330	U
75-15-0	Carbon Disulfide	330	U
75-35-4	1,1-Dichloroethene	330	U
75-35-3	1,1-Dichloroethane	330	U
540-59-0	1,2-Dichloroethene (total)	330	U
67-66-3	Chloroform	330	U
107-06-2	1,2-Dichloroethane	330	U
78-93-3	2-Butanone	330	U
71-55-6	1,1,1-Trichloroethane	330	U
56-23-5	Carbon Tetrachloride	330	U
108-05-4	Vinyl Acetate	330	U
75-27-4	Bromodichloromethane	330	U
78-87-5	1,2-Dichloropropane	330	U
10061-01-5	cis-1,3-Dichloropropene	330	U
79-01-6	Trichloroethene	330	U
124-48-1	Dibromochloromethane	330	U
79-00-5	1,1,2-Trichloroethane	330	U
71-43-2	Benzene	330	U
10061-02-6	Trans-1,3-Dichloropropene	330	U
110-75-8	2-Chloroethylvinylether	330	U
75-25-2	Bromoform	330	U
108-10-1	4-Methyl-2-Pentanone	330	U
591-78-6	2-Hexanone	330	U
127-18-4	Tetrachloroethene	330	U
79-34-5	1,1,2,2-Tetrachloroethane	330	U
108-88-3	Toluene	330	U
108-90-7	Chlorobenzene	330	U
100-41-4	Ethylbenzene	330	U
100-42-5	Styrene	330	U
	Total Xylenes	330	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

NABLNK8-1BF

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: NABLNK8-1BF

Sample wt/vol: _____ (g/ml) G Lab File ID: VB0818BSF

Level: (low/med) MED Date Received: 08/11/87

% Moisture: not dec. ____ Date Analyzed: 08/18/87

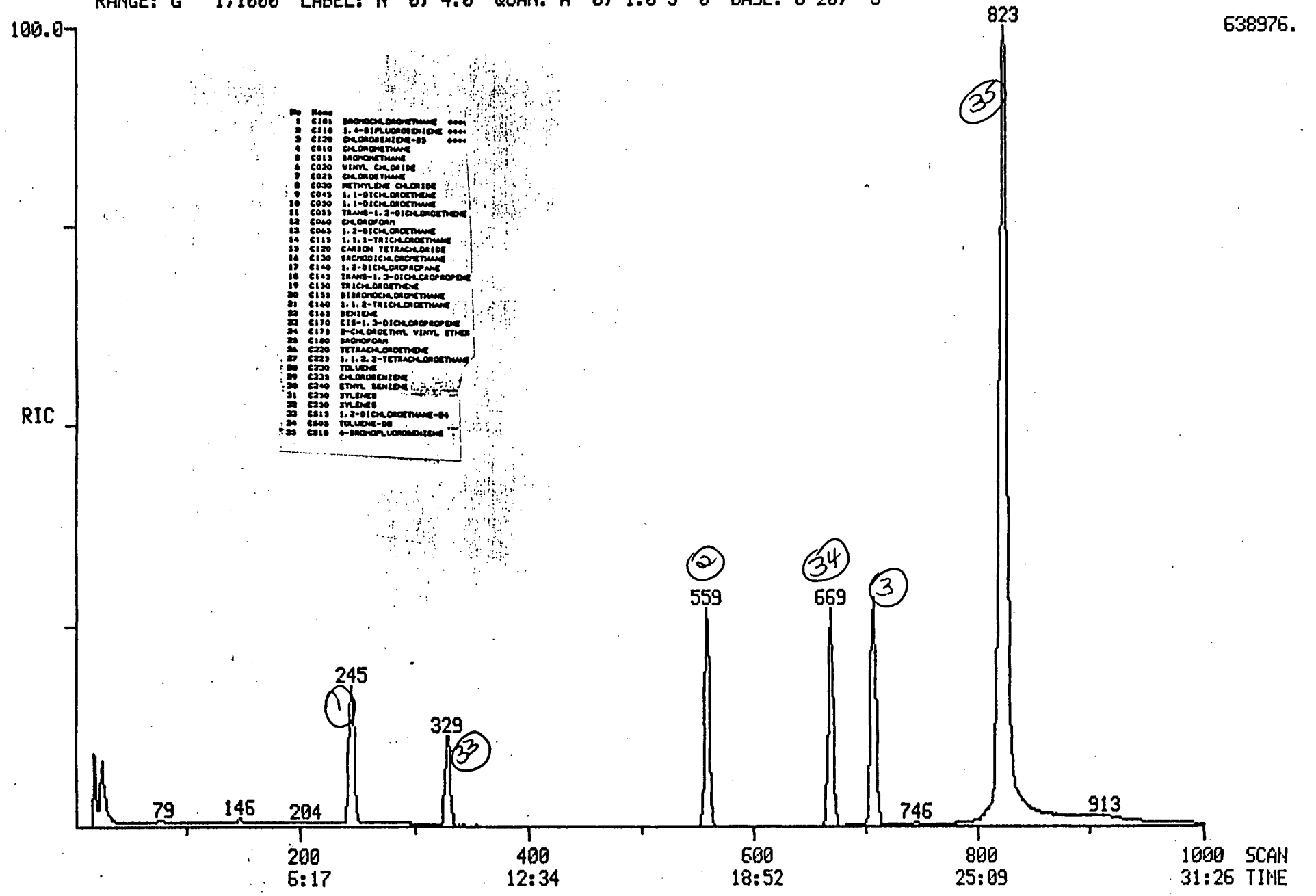
Column (pack/cap) PACKED Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NONE DETECTED			

MIDRIC
08/18/87 21:22:00
SAMPLE: NA BLANK
CONDS.: 100 UL PURGE
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VB0818BSP #1 SCANS 1 TO 1000
CALI: VB0818BSA #2



4 of 2

Quantitation Report File: VB0818BSP

Data: VB0818BSP.TI
08/18/87 21:22:00
Sample: NA BLANK
Conds.: 100 UL PURGE
Submitted by: AK Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	244	7:40	1	1.000	A BB	85076.	50.000 UG/L	16.94
2	114	559	17:34	2	1.000	A BB	419478.	50.000 UG/L	16.94
3	117	707	22:13	3	1.000	A BB	326630.	50.000 UG/L	16.94
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	84	146	4:35	1	0.598	A BB	~~1674.~~	~~0.847 UG/L~~	~~0.29~~ NO PA
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
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	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	65	330	10:22	1	1.352	A BB	136653.	44.376 UG/L	15.04 W/O PA
34	98	669	21:02	3	0.946	A BB	367781.	49.600 UG/L	16.81 W/O PA
35	95	821	25:48	3	1.161	A BB	322340.	50.275 UG/L	17.04 W/O PA

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:15	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:15		0.165			50.00		0.691	
5	1:49		0.239			50.00		1.543	
6	2:18		0.300			50.00		1.178	
7	2:50		0.370			50.00		0.765	
8	4:30	1.02	0.588	1.02	0.85	50.00	0.020	1.162	0.02
9	7:08		0.934			50.00		1.192	
10	8:24		1.099			50.00		2.570	
11	9:09		1.198			50.00		1.487	
12	9:48		1.284			50.00		3.171	
13	10:28		1.370			50.00		2.058	
14	11:40		0.661			50.00		0.454	
15	12:00		0.681			50.00		0.306	
16	12:42		0.720			50.00		0.548	
17	13:54		0.788			50.00		0.333	
18	14:13		0.806			50.00		0.575	
19	14:45		0.836			50.00		0.431	
20	15:24		0.873			50.00		0.435	
21	15:28		0.877			50.00		0.329	
22	15:07		0.857			50.00		0.797	
23	15:26		0.875			50.00		0.238	
24	16:26		0.932			50.00		0.165	
25	17:59		1.020			50.00		0.326	
26	20:09		0.905			50.00		0.523	
27	20:11		0.907			50.00		0.681	
28	21:15		0.955			50.00		0.716	
29	22:23		1.006			50.00		1.006	
30	24:03		1.081			50.00		0.444	
31	27:30		1.236			50.00		0.571	
32	27:40		1.238			50.00		0.574	
33	10:22	1.00	1.358	1.00	44.38	50.00	1.606	1.810	0.89
34	21:06	1.00	0.948	1.00	49.60	50.00	1.126	1.135	0.99
35	25:52	1.00	1.162	1.00	50.28	50.00	0.987	0.981	1.01

MATRIX BLANK

VOLATILE ORGANICS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: ADBLNK8-19A

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: ADBLNK8-19A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VB0819BWA

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. _____ Data Analyzed: 08/19/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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
75-35-3	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
110-75-8	2-Chloroethylvinylether	10	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	10	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
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ADBLNKB-19A

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: ADBLNKB-19A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VB08198WA

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. _____ Date Analyzed: 08/19/87

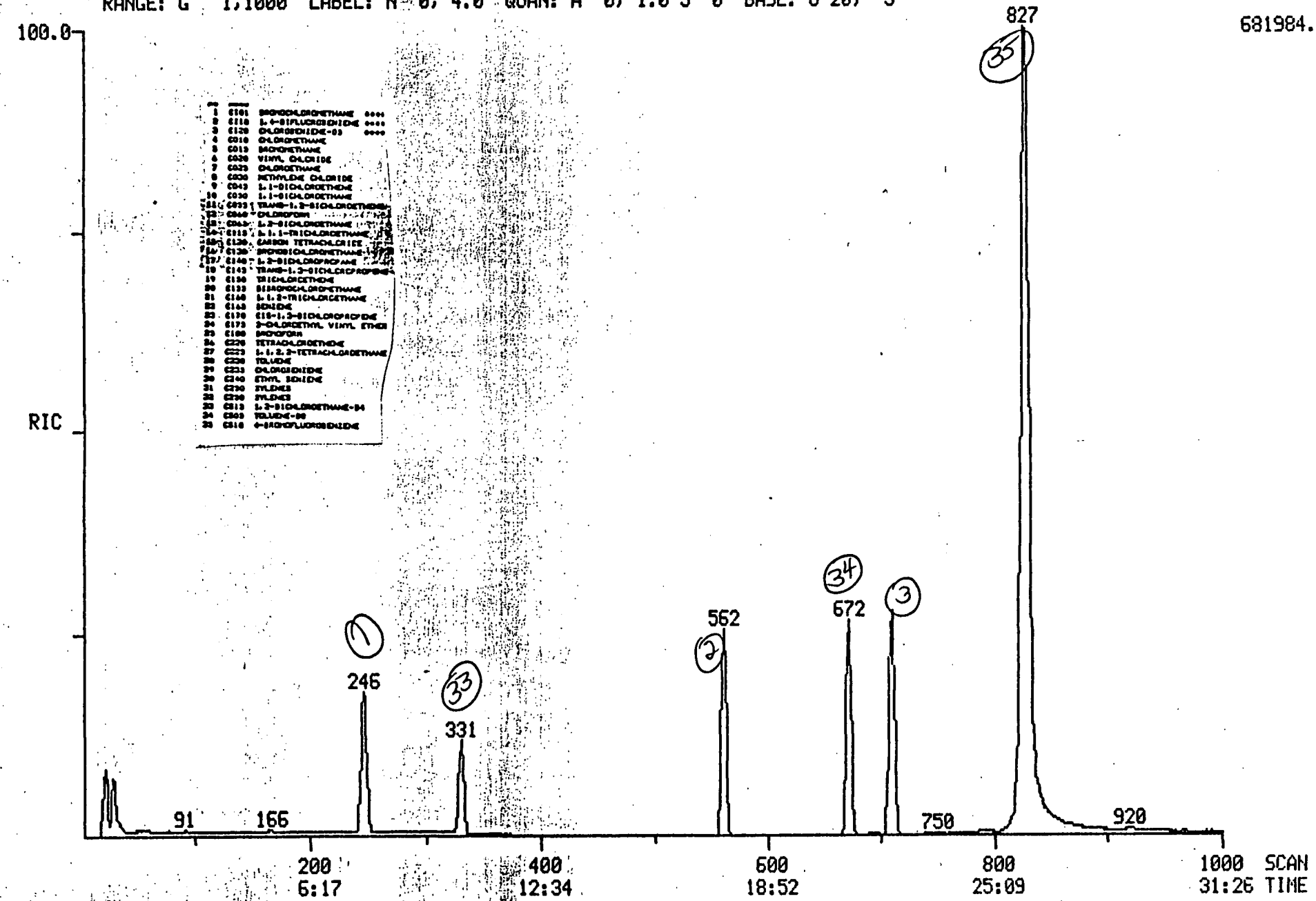
Column (pack/cap) PACKED Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NONE DETECTED			

MIDRIC
08/19/87 10:47:00
SAMPLE: AQ BLANK
CONDS.: 5.0 ML PURGE
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VB0819BWA #1 SCANS 1 TO 1000
CALI: V0819B5A #2



46 9

Quantitation Report File: VB0819BWA

Data: VB0819BWA.TI
08/19/87 10:47:00
Sample: AQ BLANK
Conds.: 5.0 ML PURGE
Submitted by: AK Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	246	7:44	1	1.000	A BB	91023.	50.000 UG/L	17.03
2	114	561	17:38	2	1.000	A BB	439570.	50.000 UG/L	17.03
3	117	710	22:19	3	1.000	A BB	344256.	50.000 UG/L	17.03
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
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	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	65	331	10:24	1	1.346	A BB	145009.	45.283 UG/L	15.43
34	98	672	21:07	3	0.946	A BB	383794.	49.094 UG/L	16.72
35	95	826	25:58	3	1.163	A BB	329024.	49.235 UG/L	16.77

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:42	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:17	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:19		0.171			50.00		0.461	
5	1:53		0.245			50.00		1.133	
6	2:20		0.302			50.00		1.084	
7	2:55		0.380			50.00		0.830	
8	4:35		0.596			50.00		1.287	
9	7:12		0.935			50.00		1.284	
10	8:27		1.098			50.00		2.706	
11	9:11		1.192			50.00		1.419	
12	9:50		1.278			50.00		3.374	
13	10:30		1.363			50.00		2.167	
14	11:42		0.663			50.00		0.498	
15	12:02		0.683			50.00		0.334	
16	12:44		0.722			50.00		0.600	
17	13:56		0.790			50.00		0.361	
18	14:13		0.806			50.00		0.636	
19	14:45		0.836			50.00		0.484	
20	15:26		0.875			50.00		0.491	
21	15:30		0.879			50.00		0.374	
22	15:09		0.859			50.00		0.868	
23	15:28		0.877			50.00		0.272	
24	16:28		0.934			50.00		0.235	
25	18:01		1.021			50.00		0.411	
26	20:09		0.904			50.00		0.572	
27	20:13		0.907			50.00		0.896	
28	21:17		0.955			50.00		0.787	
29	22:25		1.006			50.00		1.103	
30	24:07		1.082			50.00		0.505	
31	27:02		1.213			50.00		0.003	
32	27:38		1.240			50.00		0.651	
33	10:24	1.00	1.351	1.00	45.28	50.00	1.593	1.759	0.91
34	21:07	1.00	0.948	1.00	49.09	50.00	1.115	1.135	0.98
35	25:58	1.00	1.165	1.00	49.24	50.00	0.956	0.971	0.98

MATRIX BLANK

VOLATILE ORGANICS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AQBLNKE-19P

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AQBLNKB-19P

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V8083198WP

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. ____ Date Analyzed: 08/20/87

Column: (pack/cap) PACKED Dilution Factor: 1.00

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
110-75-8	2-Chloroethylvinylether	10	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	10	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
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AQBLNK9-19P

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14508 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: AQBLNK9-19P

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: VB0319PWP

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. ____ Date Analyzed: 08/20/87

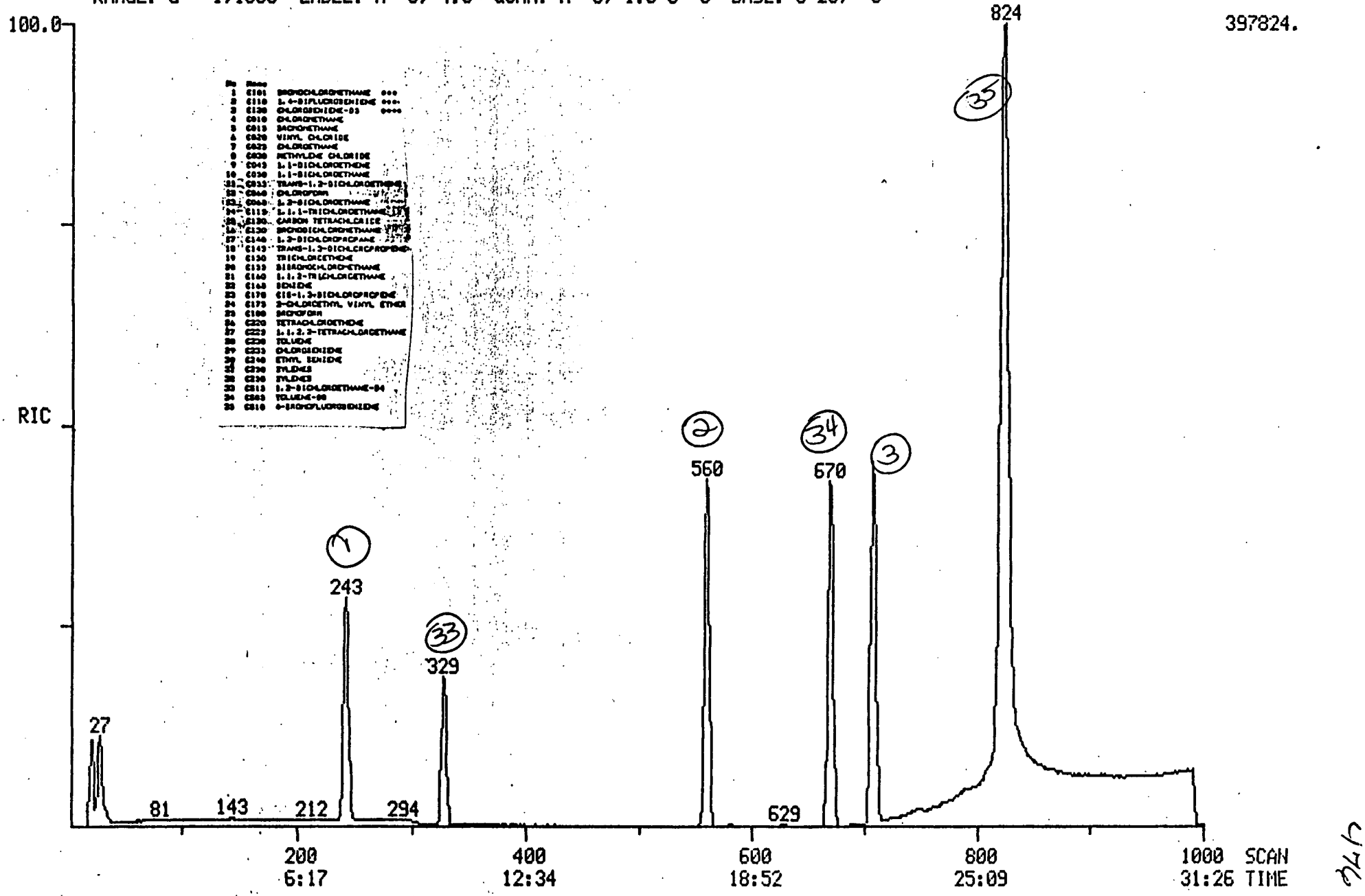
Column (pack/cap) PACKED Dilution Factor: 1.00

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	NONE DETECTED			

MIDRIC
08/20/87 1:41:00
SAMPLE: AQ BLANK
CONDS.: 5.0 ML PURGE
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: VB0819BWP #1 SCANS 1 TO 1000
CALI: V0819B5P #2



476

Quantitation Report File: VB0819BWP

Data: VB0819BWP.TI
08/20/87 1:41:00
Sample: AQ BLANK
Conds.: 5.0 ML PURGE
Submitted by: AK Analyst: PAA

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

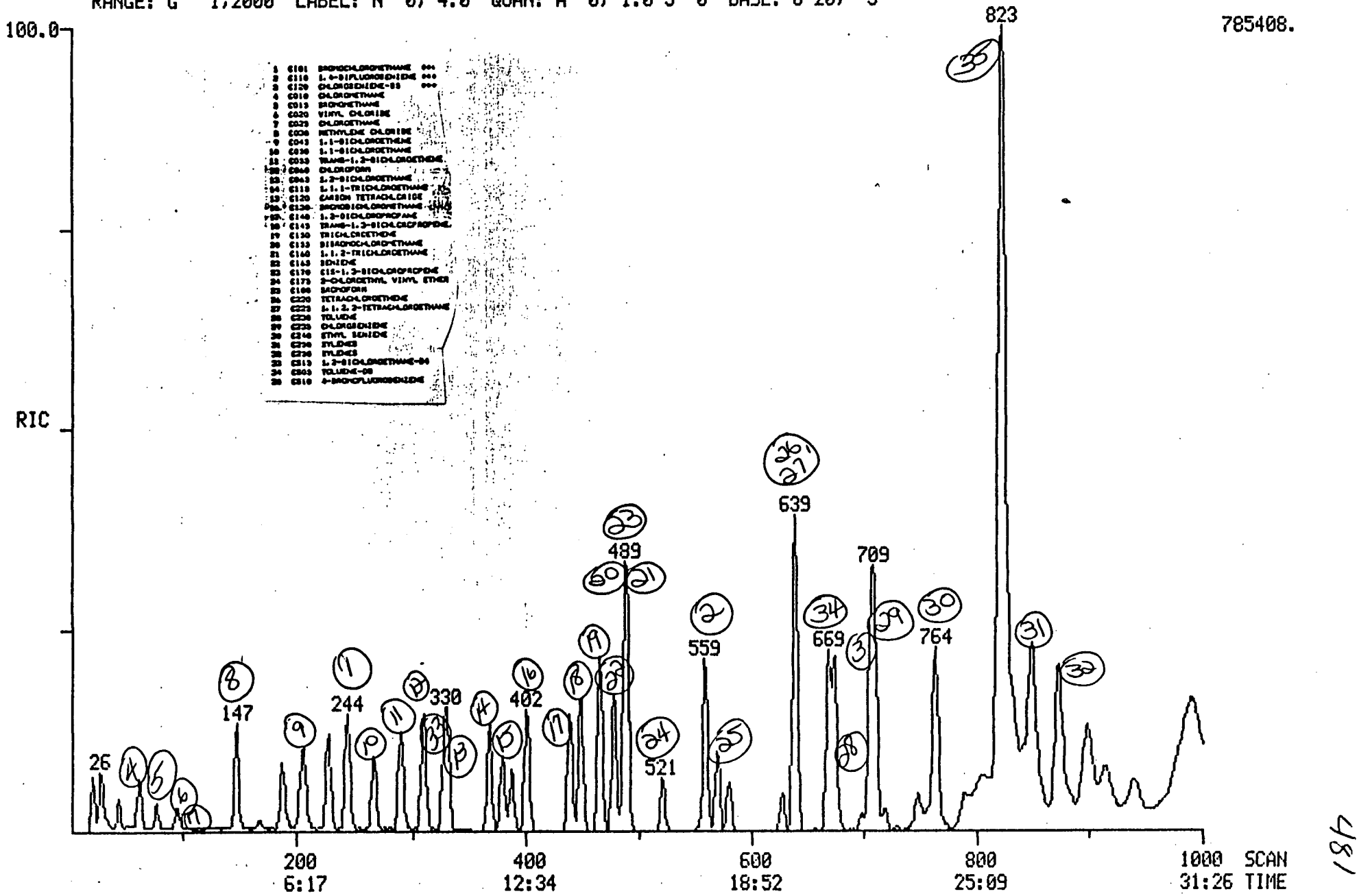
NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	243	7:38	1	1.000	A BB	85130.	50.000 UG/L	16.48
2	114	560	17:36	2	1.000	A BB	425419.	50.000 UG/L	16.48
3	117	708	22:15	3	1.000	A BB	326073.	50.000 UG/L	16.48
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
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	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	65	329	10:21	1	1.354	A BB	138232.	49.527 UG/L	16.33
34	98	670	21:04	3	0.946	A BB	370475.	51.179 UG/L	16.87
35	95	822	25:50	3	1.161	A BB	327708.	52.696 UG/L	17.37

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:36	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:12	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:15		0.165			50.00		0.611	
5	1:49		0.240			50.00		1.539	
6	2:18		0.302			50.00		1.168	
7	2:54		0.380			50.00		0.802	
8	4:32		0.595			50.00		1.174	
9	7:06		0.934			50.00		1.129	
10	8:22		1.099			50.00		2.334	
11	9:05		1.194			50.00		1.217	
12	9:43		1.277			50.00		2.798	
13	10:24		1.368			50.00		1.880	
14	11:34		0.659			50.00		0.463	
15	11:57		0.681			50.00		0.325	
16	12:36		0.719			50.00		0.562	
17	13:48		0.787			50.00		0.310	
18	14:07		0.805			50.00		0.562	
19	14:39		0.835			50.00		0.426	
20	15:19		0.873			50.00		0.464	
21	15:24		0.878			50.00		0.324	
22	15:03		0.858			50.00		0.764	
23	15:22		0.876			50.00		0.238	
24	16:23		0.934			50.00		0.175	
25	17:53		1.020			50.00		0.349	
26	20:03		0.904			50.00		0.526	
27	20:07		0.907			50.00		0.685	
28	21:11		0.955			50.00		0.702	
29	22:19		1.006			50.00		1.002	
30	23:59		1.081			50.00		0.436	
31	26:53		1.208			50.00		0.007	
32	27:25		1.235			50.00		0.549	
33	10:19	1.00	1.355	1.00	49.53	50.00	1.624	1.639	0.99
34	21:02	1.00	0.948	1.00	51.18	50.00	1.136	1.110	1.02
35	25:48	1.00	1.163	1.00	52.70	50.00	1.005	0.954	1.05

MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY
VOLATILES

MIDRIC
08/19/87 7:02:00
DATA: 14558V4SR #1
CALI: 14558V4SR #2
SCANS 1 TO 1000
SAMPLE: 14558-4 SPIKE
CONDS.: 4.3556 GMS/10.0 MLS,100 UL PURGED, 50 UG/L ADDED
RANGE: G 1,2000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



481

Quantitation Report File: 14558V4SR

Data: 14558V4SR.TI
08/19/87 7:02:00
Sample: 14558-4 SPIKE
Conds.: 4.3556 GMS/10.0 MLS, 100 UL PURGED, 50 UG/L ADDED
Submitted by: NJBSA Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	244	7:40	1	1.000	A BB	85346.	50.000 UG/L	3.18
2	114	559	17:34	2	1.000	A BB	414667.	50.000 UG/L	3.18
3	117	707	22:13	3	1.000	A BB	319645.	50.000 UG/L	3.18
4	50	43	1:21	1	0.176	A BB	58384.	49.503 UG/L	3.15
5	94	62	1:57	1	0.254	A BB	80161.	30.435 UG/L	1.93
6	62	76	2:23	1	0.311	A BB	60996.	30.336 UG/L	1.93
7	64	94	2:57	1	0.385	A BB	61015.	46.736 UG/L	2.97
8	84	147	4:37	1	0.602	A BB	100452.	50.648 UG/L	3.22
9	96	228	7:10	1	0.934	A BB	94661.	46.514 UG/L	2.96
10	63	267	8:24	1	1.094	A BB	194773.	44.407 UG/L	2.82
11	96	291	9:09	1	1.193	A BB	101904.	40.145 UG/L	2.55
12	83	311	9:47	1	1.275	A BB	230284.	42.540 UG/L	2.70
13	62	332	10:26	1	1.361	A BB	159630.	45.445 UG/L	2.89
14	97	369	11:36	2	0.660	A BB	179171.	47.611 UG/L	3.03
15	117	381	11:59	2	0.682	A BB	120278.	47.333 UG/L	3.01
16	83	402	12:38	2	0.719	A BB	215070.	47.323 UG/L	3.01
17	63	440	13:50	2	0.787	A BB	125538.	45.478 UG/L	2.89
18	75	450	14:09	2	0.805	A BB	220906.	46.349 UG/L	2.95
19	130	467	14:41	2	0.835	A BB	167768.	46.928 UG/L	2.98
20	129	488	15:20	2	0.873	A BB	169284.	46.972 UG/L	2.99
21	97	490	15:24	2	0.877	A BB	127000.	46.487 UG/L	2.95
22	78	479	15:03	2	0.857	A BB	308463.	46.667 UG/L	2.97
23	75	489	15:22	2	0.875	A BB	93413.	47.330 UG/L	3.01
24	63	521	16:23	2	0.932	A BB	65485.	47.841 UG/L	3.04
25	173	570	17:55	2	1.020	A BB	122182.	45.151 UG/L	2.87
26	164	639	20:05	3	0.904	A BB	160172.	47.895 UG/L	3.04
27	83	639	20:05	3	0.904	A BB	193457.	44.446 UG/L	2.83
28	92	675	21:13	3	0.955	A BB	220829.	48.243 UG/L	3.07
29	112	711	22:21	3	1.006	A BB	309395.	48.095 UG/L	3.06
30	106	764	24:01	3	1.081	A BB	137099.	48.247 UG/L	3.07
31	106	854	26:51	3	1.208	A BB	6170.	1.691 UG/L	0.11
32	106	874	27:28	3	1.236	A BB	183048.	49.914 UG/L	3.17
33	65	329	10:21	1	1.348	A BB	144539.	46.788 UG/L	2.97
34	98	669	21:02	3	0.946	A BB	359889.	49.596 UG/L	3.15
35	95	822	25:50	3	1.163	A BB	314860.	50.182 UG/L	3.19

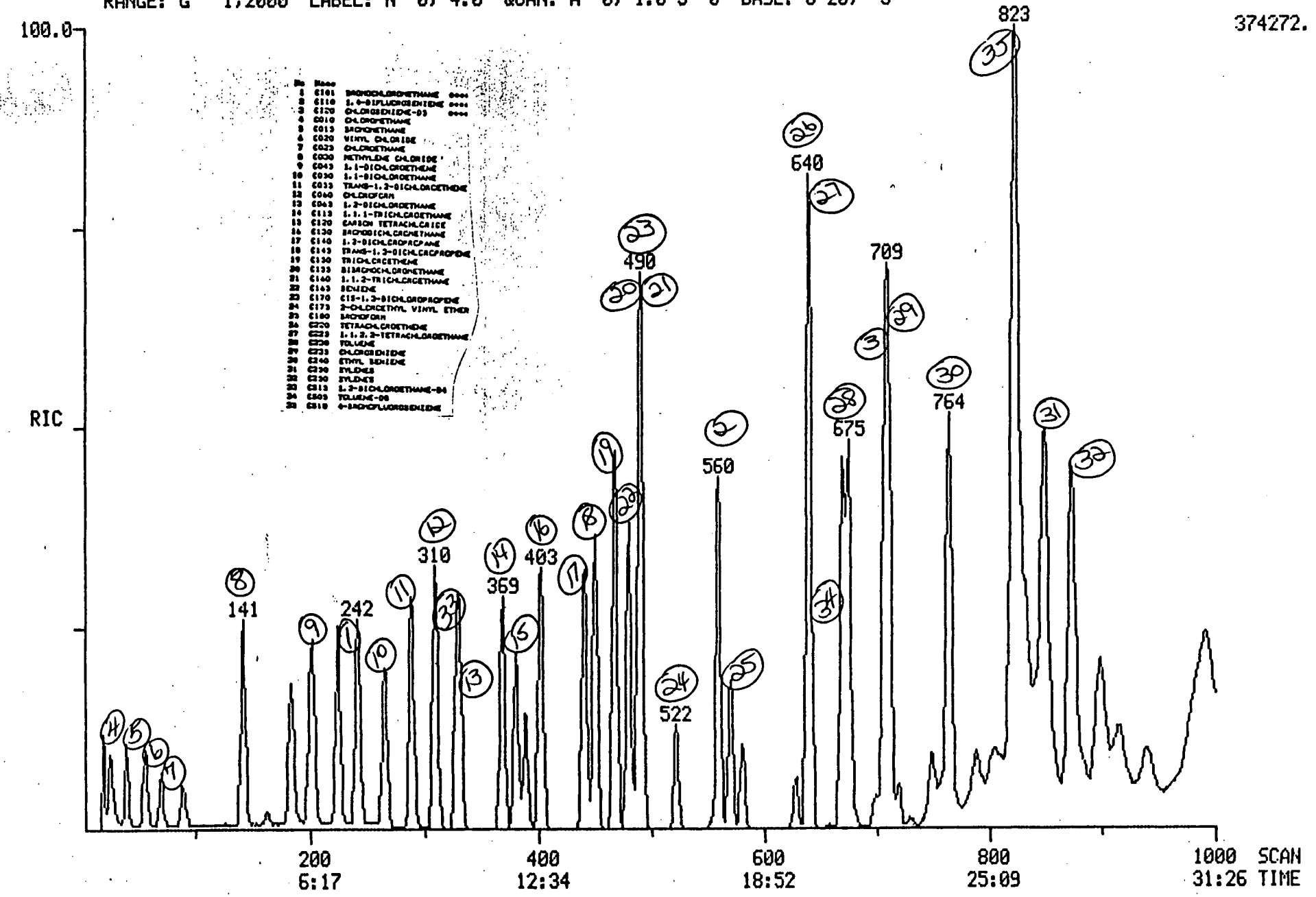
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:15	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:15	1.07	0.165	1.07	49.50	50.00	0.684	0.691	0.99
5	1:49	1.07	0.239	1.06	30.44	50.00	0.939	1.543	0.61
6	2:18	1.04	0.300	1.04	30.34	50.00	0.715	1.178	0.61
7	2:50	1.04	0.370	1.04	46.74	50.00	0.715	0.765	0.93
8	4:30	1.03	0.588	1.02	50.65	50.00	1.177	1.162	1.01
9	7:08	1.00	0.934	1.00	46.51	50.00	1.109	1.192	0.93
10	8:24	1.00	1.099	1.00	44.41	50.00	2.282	2.570	0.89
11	9:09	1.00	1.198	1.00	40.15	50.00	1.194	1.487	0.80
12	9:48	1.00	1.284	0.99	42.54	50.00	2.698	3.171	0.85
13	10:28	1.00	1.370	0.99	45.44	50.00	1.870	2.058	0.91
14	11:40	0.99	0.661	1.00	47.61	50.00	0.432	0.454	0.95
15	12:00	1.00	0.681	1.00	47.33	50.00	0.290	0.306	0.95
16	12:42	1.00	0.720	1.00	47.32	50.00	0.519	0.548	0.95
17	13:54	1.00	0.788	1.00	45.48	50.00	0.303	0.333	0.91
18	14:13	1.00	0.806	1.00	46.35	50.00	0.533	0.575	0.93
19	14:45	1.00	0.836	1.00	46.93	50.00	0.405	0.431	0.94
20	15:24	1.00	0.873	1.00	46.97	50.00	0.408	0.435	0.94
21	15:28	1.00	0.877	1.00	46.49	50.00	0.306	0.329	0.93
22	15:07	1.00	0.857	1.00	46.67	50.00	0.744	0.797	0.93
23	15:26	1.00	0.875	1.00	47.33	50.00	0.225	0.238	0.95
24	16:26	1.00	0.932	1.00	47.84	50.00	0.158	0.165	0.96
25	17:59	1.00	1.020	1.00	45.15	50.00	0.295	0.326	0.90
26	20:09	1.00	0.905	1.00	47.90	50.00	0.501	0.523	0.96
27	20:11	1.00	0.907	1.00	44.45	50.00	0.605	0.681	0.89
28	21:15	1.00	0.955	1.00	48.24	50.00	0.691	0.716	0.96
29	22:23	1.00	1.006	1.00	48.09	50.00	0.968	1.006	0.96
30	24:03	1.00	1.081	1.00	48.25	50.00	0.429	0.444	0.96
31	27:30	0.98	1.236	0.98	1.69	50.00	0.019	0.571	0.03
32	27:40	0.99	1.238	1.00	49.91	50.00	0.573	0.574	1.00
33	10:22	1.00	1.358	0.99	46.79	50.00	1.694	1.810	0.94
34	21:06	1.00	0.948	1.00	49.60	50.00	1.126	1.135	0.99
35	25:52	1.00	1.162	1.00	50.18	50.00	0.985	0.981	1.00

MIDRIC
08/19/87 1:49:00
SAMPLE: 14558-4 SPIKE DUP
CONDS.: 4.3556G/10ML, 100 UL PURGE, 50 UG/L SPIKE
RANGE: G 1,2000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V4SD #1
CALI: 14558V4SD #2

SCANS 1 TO 1000

374272.



485

Quantitation Report File: 14558V4SD

Data: 14558V4SD.TI
08/19/87 1:49:00
Sample: 14558-4 SPIKE DUP
Conds.: 4.3556G/10ML, 100 UL PURGE, 50 UG/L SPIKE
Submitted by: AK Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

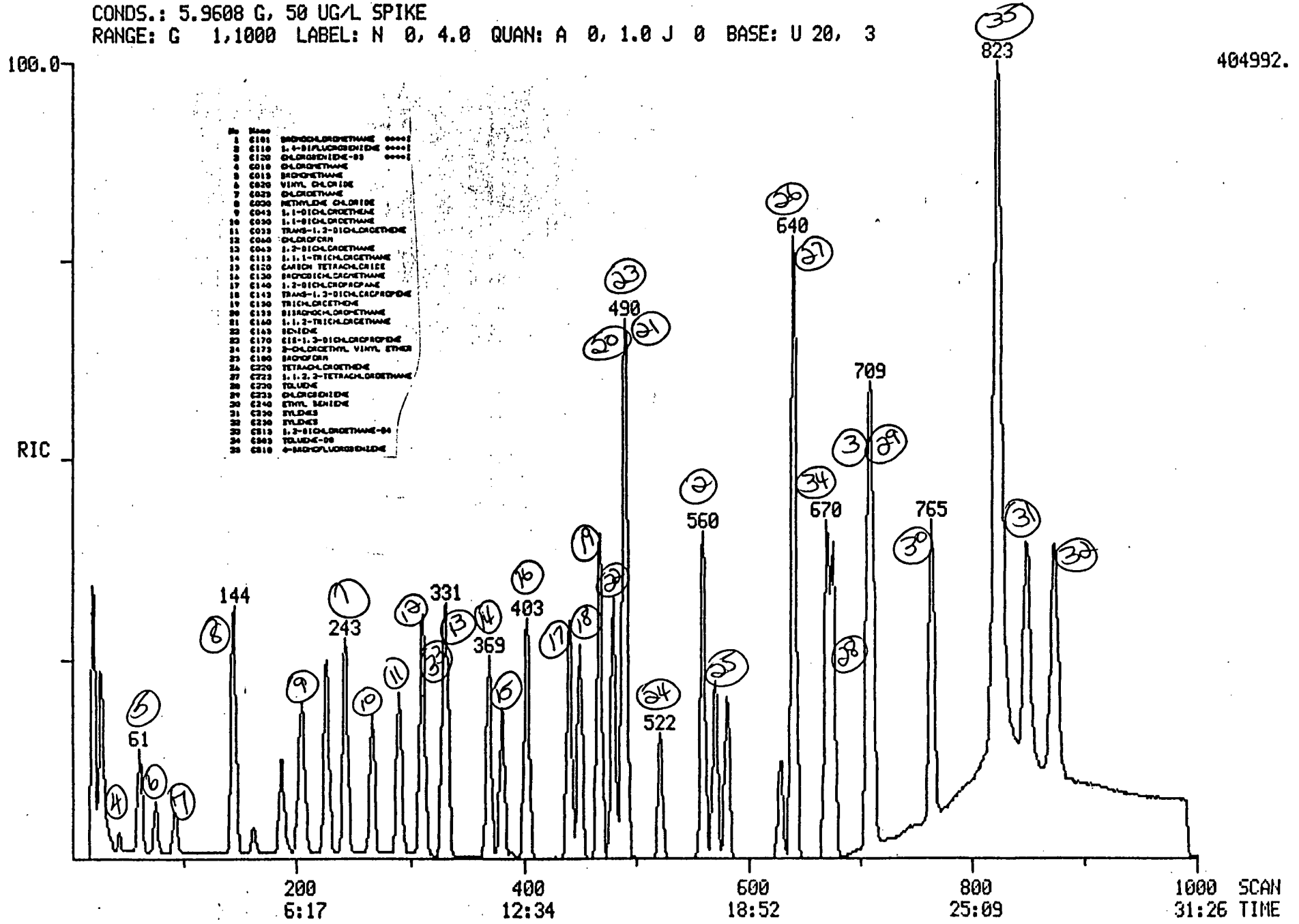
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	241	7:35	1	1.000	A BB	73612.	50.000 UG/L	2.84
2	114	560	17:36	2	1.000	A BB	395161.	50.000 UG/L	2.84
3	117	707	22:13	3	1.000	A BB	304453.	50.000 UG/L	2.84
4	50	39	1:14	1	0.162	A BB	97821.	96.162 UG/L	5.47
5	94	55	1:44	1	0.228	A BB	81549.	35.898 UG/L	2.04
6	62	70	2:12	1	0.290	A BB	68563.	39.535 UG/L	2.25
7	64	88	2:46	1	0.365	A BB	53465.	47.481 UG/L	2.70
8	84	141	4:26	1	0.585	A BB	96980.	56.692 UG/L	3.22
9	96	224	7:02	1	0.929	A BB	94192.	53.661 UG/L	3.05
10	63	265	8:20	1	1.100	A BB	214960.	56.821 UG/L	3.23
11	96	289	9:05	1	1.199	A BB	115542.	52.773 UG/L	3.00
12	83	310	9:45	1	1.286	A BB	254937.	54.601 UG/L	3.10
13	62	332	10:26	1	1.378	A BB	157138.	51.866 UG/L	2.95
14	97	369	11:36	2	0.659	A BB	188256.	52.494 UG/L	2.98
15	117	381	11:59	2	0.680	A BB	133266.	55.033 UG/L	3.13
16	83	403	12:40	2	0.720	A BB	225099.	51.975 UG/L	2.95
17	63	441	13:52	2	0.787	A BB	139582.	53.062 UG/L	3.02
18	75	450	14:09	2	0.804	A BB	232480.	51.185 UG/L	2.91
19	130	467	14:41	2	0.834	A BB	169496.	49.751 UG/L	2.83
20	129	489	15:22	2	0.873	A BB	165894.	48.303 UG/L	2.75
21	97	491	15:26	2	0.877	A BB	120752.	46.382 UG/L	2.64
22	78	480	15:05	2	0.857	A BB	327042.	51.920 UG/L	2.95
23	75	490	15:24	2	0.875	A BB	95574.	50.816 UG/L	2.89
24	63	522	16:25	2	0.932	A BB	61625.	47.243 UG/L	2.68
25	173	571	17:57	2	1.020	A BB	112148.	43.489 UG/L	2.47
26	164	640	20:07	3	0.905	A BB	161541.	50.715 UG/L	2.88
27	83	641	20:09	3	0.907	A BB	175504.	42.333 UG/L	2.41
28	92	675	21:13	3	0.955	A BB	229356.	52.606 UG/L	2.99
29	112	711	22:21	3	1.006	A BB	320169.	52.253 UG/L	2.97
30	106	764	24:01	3	1.081	A BB	144438.	53.366 UG/L	3.03
31	106	854	26:51	3	1.208	A BB	7170.	2.063 UG/L	0.12
32	106	873	27:27	3	1.235	A BB	195470.	55.961 UG/L	3.18
33	65	329	10:21	1	1.365	A BB	138259.	51.889 UG/L	2.95
34	98	670	21:04	3	0.948	A BB	347972.	50.347 UG/L	2.86
35	95	822	25:50	3	1.163	A BB	304034.	50.874 UG/L	2.89

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	7:38	0.99	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:38	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:15	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:15	0.98	0.165	0.98	96.16	50.00	1.329	0.691	1.92
5	1:49	0.95	0.239	0.96	35.90	50.00	1.108	1.543	0.72
6	2:18	0.96	0.300	0.97	39.54	50.00	0.931	1.178	0.79
7	2:50	0.98	0.370	0.99	47.48	50.00	0.726	0.765	0.95
8	4:30	0.99	0.588	0.99	56.69	50.00	1.317	1.162	1.13
9	7:08	0.99	0.934	0.99	53.66	50.00	1.280	1.192	1.07
10	8:24	0.99	1.099	1.00	56.82	50.00	2.920	2.570	1.14
11	9:09	0.99	1.198	1.00	52.77	50.00	1.570	1.487	1.06
12	9:48	0.99	1.284	1.00	54.60	50.00	3.463	3.171	1.09
13	10:28	1.00	1.370	1.01	51.87	50.00	2.135	2.058	1.04
14	11:40	0.99	0.661	1.00	52.49	50.00	0.476	0.454	1.05
15	12:00	1.00	0.681	1.00	55.03	50.00	0.337	0.306	1.10
16	12:42	1.00	0.720	1.00	51.97	50.00	0.570	0.548	1.04
17	13:54	1.00	0.788	1.00	53.06	50.00	0.353	0.333	1.06
18	14:13	1.00	0.806	1.00	51.18	50.00	0.588	0.575	1.02
19	14:45	1.00	0.836	1.00	49.75	50.00	0.429	0.431	1.00
20	15:24	1.00	0.873	1.00	48.30	50.00	0.420	0.435	0.97
21	15:28	1.00	0.877	1.00	46.38	50.00	0.306	0.329	0.93
22	15:07	1.00	0.857	1.00	51.92	50.00	0.828	0.797	1.04
23	15:26	1.00	0.875	1.00	50.82	50.00	0.242	0.238	1.02
24	16:26	1.00	0.932	1.00	47.24	50.00	0.156	0.165	0.94
25	17:59	1.00	1.020	1.00	43.49	50.00	0.284	0.326	0.87
26	20:09	1.00	0.905	1.00	50.72	50.00	0.531	0.523	1.01
27	20:11	1.00	0.907	1.00	42.33	50.00	0.576	0.681	0.85
28	21:15	1.00	0.955	1.00	52.61	50.00	0.753	0.716	1.05
29	22:23	1.00	1.006	1.00	52.25	50.00	1.052	1.006	1.05
30	24:03	1.00	1.081	1.00	53.37	50.00	0.474	0.444	1.07
31	27:30	0.98	1.236	0.98	2.06	50.00	0.024	0.571	0.04
32	27:40	0.99	1.238	1.00	55.96	50.00	0.642	0.574	1.12
33	10:22	1.00	1.358	1.01	51.89	50.00	1.878	1.810	1.04
34	21:06	1.00	0.948	1.00	50.35	50.00	1.143	1.135	1.01
35	25:52	1.00	1.162	1.00	50.87	50.00	0.999	0.981	1.02

MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY
VOLATILES

MIDRIC
08/20/87 2:22:00
SAMPLE: 14558-9 SPIKE
CONDS.: 5.9608 G, 50 UG/L SPIKE
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V9SR #1 SCANS 1 TO 1000
CALI: VB0819BWP #2



490

Quantitation Report File: 14558V9SR

Data: 14558V9SR.TI
08/20/87 2:22:00
Sample: 14558-9 SPIKE
Conds.: 5.9608 G, 50 UG/L SPIKE
Submitted by: AK Analyst: PAA

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

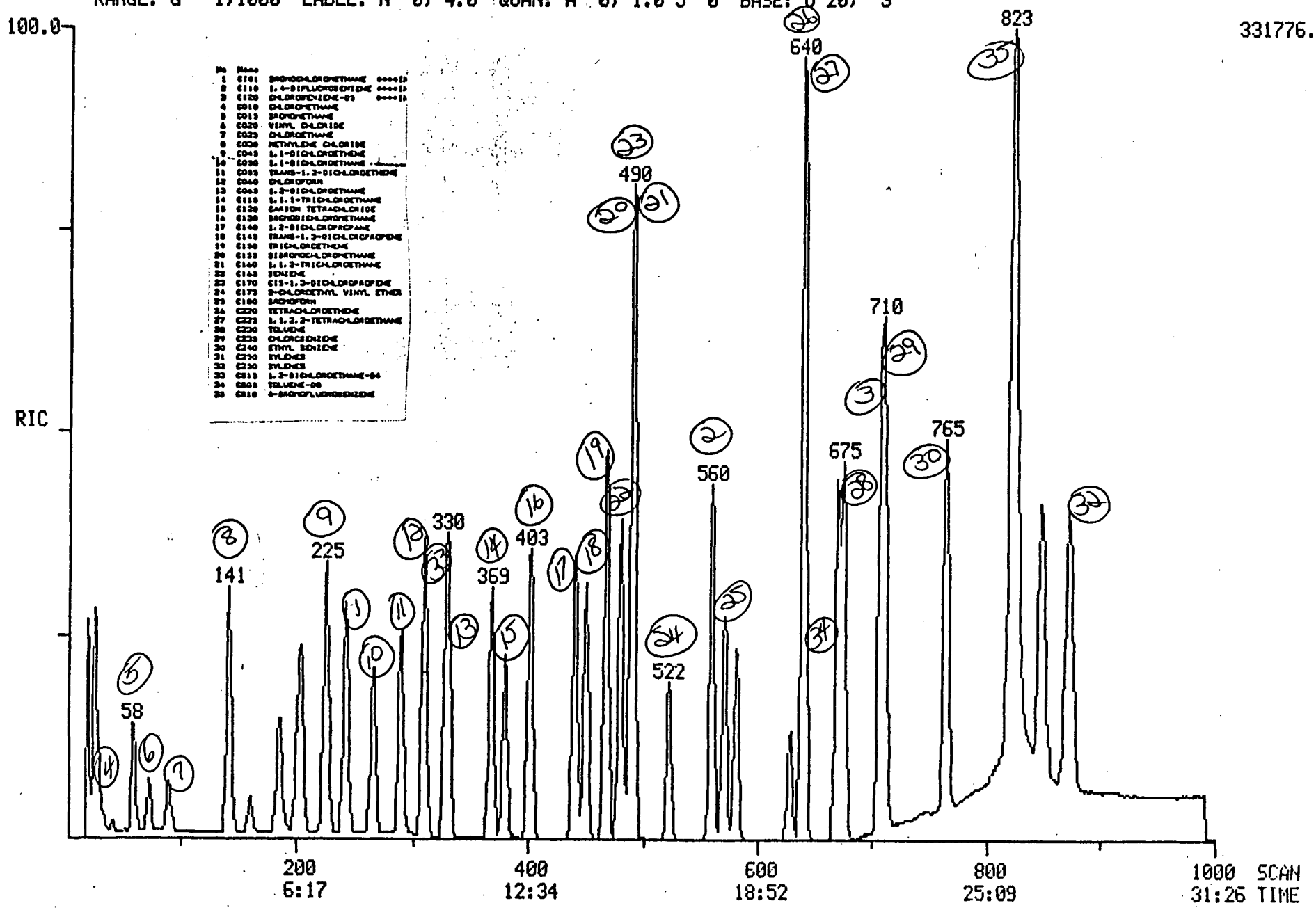
NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	243	7:38	1	1.000	A BB	82602.	50.000	UG/L	2.93
2	114	560	17:36	2	1.000	A BB	403695.	50.000	UG/L	2.93
3	117	707	22:13	3	1.000	A BB	301106.	50.000	UG/L	2.93
4	50	43	1:21	1	0.177	A BB	24259.	24.030	UG/L	1.41
5	94	61	1:55	1	0.251	A BB	88414.	34.781	UG/L	2.04
6	62	74	2:20	1	0.305	A BB	71909.	37.268	UG/L	2.18
7	64	92	2:54	1	0.379	A BB	59540.	44.927	UG/L	2.63
8	84	143	4:30	1	0.588	A BB	135612.	69.908	UG/L	4.09
9	96	227	7:08	1	0.934	A BB	87981.	47.186	UG/L	2.76
10	63	267	8:24	1	1.099	A BB	206312.	53.516	UG/L	3.13
11	96	290	9:07	1	1.193	A BB	87625.	43.596	UG/L	2.55
12	83	311	9:47	1	1.280	A BB	253112.	54.750	UG/L	3.20
13	62	332	10:26	1	1.366	A BB	166397.	53.568	UG/L	3.13
14	97	369	11:36	2	0.659	A BB	188034.	50.347	UG/L	2.95
15	117	381	11:59	2	0.680	A BB	126267.	48.138	UG/L	2.82
16	83	403	12:40	2	0.720	A BB	222038.	48.908	UG/L	2.86
17	63	441	13:52	2	0.787	A BB	134310.	53.720	UG/L	3.14
18	75	450	14:09	2	0.804	A BB	183760.	40.474	UG/L	2.37
19	130	468	14:43	2	0.836	A BB	159608.	46.393	UG/L	2.71
20	129	489	15:22	2	0.873	A BB	182369.	48.703	UG/L	2.85
21	97	491	15:26	2	0.877	A BB	137768.	52.608	UG/L	3.08
22	78	480	15:05	2	0.857	A BB	308703.	50.024	UG/L	2.93
23	75	490	15:24	2	0.875	A BB	78237.	40.779	UG/L	2.39
24	63	522	16:25	2	0.932	A BB	79630.	56.272	UG/L	3.29
25	173	571	17:57	2	1.020	A BB	143510.	50.912	UG/L	2.98
26	164	640	20:07	3	0.905	A BB	140000.	44.190	UG/L	2.59
27	83	641	20:09	3	0.907	A BB	257505.	62.464	UG/L	3.66
28	92	675	21:13	3	0.955	A BB	212067.	50.186	UG/L	2.94
29	112	711	22:21	3	1.006	A BB	268445.	44.487	UG/L	2.60
30	106	764	24:01	3	1.081	A BB	119184.	45.342	UG/L	2.65
31	106	854	26:51	3	1.208	A BB	2316.	53.703	UG/L	3.14
32	106	874	27:28	3	1.236	A BB	161704.	48.912	UG/L	2.86
33	65	330	10:22	1	1.358	A BB	153437.	56.658	UG/L	3.32
34	98	670	21:04	3	0.948	A BB	351002.	52.509	UG/L	3.07
35	95	823	25:52	3	1.164	A BB	285090.	49.644	UG/L	2.91

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:36	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:12	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:15	1.07	0.165	1.07	24.03	50.00	0.294	0.611	0.48
5	1:49	1.05	0.240	1.05	34.78	50.00	1.070	1.539	0.70
6	2:18	1.01	0.302	1.01	37.27	50.00	0.871	1.168	0.75
7	2:54	1.00	0.380	1.00	44.93	50.00	0.721	0.802	0.90
8	4:32	0.99	0.595	0.99	69.91	50.00	1.642	1.174	1.40
9	7:06	1.00	0.934	1.00	47.19	50.00	1.065	1.129	0.94
10	8:22	1.00	1.099	1.00	53.52	50.00	2.498	2.334	1.07
11	9:05	1.00	1.194	1.00	43.60	50.00	1.061	1.217	0.87
12	9:43	1.01	1.277	1.00	54.75	50.00	3.064	2.798	1.10
13	10:24	1.00	1.368	1.00	53.57	50.00	2.014	1.880	1.07
14	11:34	1.00	0.659	1.00	50.35	50.00	0.466	0.463	1.01
15	11:57	1.00	0.681	1.00	48.14	50.00	0.313	0.325	0.96
16	12:36	1.00	0.719	1.00	48.91	50.00	0.550	0.562	0.98
17	13:48	1.00	0.787	1.00	53.72	50.00	0.333	0.310	1.07
18	14:07	1.00	0.805	1.00	40.47	50.00	0.455	0.562	0.81
19	14:39	1.00	0.835	1.00	46.39	50.00	0.395	0.426	0.93
20	15:19	1.00	0.873	1.00	48.70	50.00	0.452	0.464	0.97
21	15:24	1.00	0.878	1.00	52.61	50.00	0.341	0.324	1.05
22	15:03	1.00	0.858	1.00	50.02	50.00	0.765	0.764	1.00
23	15:22	1.00	0.876	1.00	40.78	50.00	0.194	0.238	0.82
24	16:23	1.00	0.934	1.00	56.27	50.00	0.197	0.175	1.13
25	17:53	1.00	1.020	1.00	50.91	50.00	0.355	0.349	1.02
26	20:03	1.00	0.904	1.00	44.19	50.00	0.465	0.526	0.88
27	20:07	1.00	0.907	1.00	62.46	50.00	0.855	0.685	1.25
28	21:11	1.00	0.955	1.00	50.19	50.00	0.704	0.702	1.00
29	22:19	1.00	1.006	1.00	44.49	50.00	0.892	1.002	0.89
30	23:59	1.00	1.081	1.00	45.34	50.00	0.396	0.436	0.91
31	26:53	1.00	1.208	1.00	53.70	50.00	0.008	0.007	1.07
32	27:25	1.00	1.235	1.00	48.91	50.00	0.537	0.549	0.98
33	10:19	1.01	1.355	1.00	56.66	50.00	1.858	1.639	1.13
34	21:02	1.00	0.948	1.00	52.51	50.00	1.166	1.110	1.05
35	25:48	1.00	1.163	1.00	49.64	50.00	0.947	0.954	0.99

MIDRIC
08/20/87 3:03:00
SAMPLE: 14558-9 SPIKE DUP
CONDS.: 5.7158 G, 50 UG/L SPIKE
RANGE: G 1,1000 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558V9SDR #1 SCANS 1 TO 1000
CALI: 14558V9SR #2



994

Quantitation Report File: 14558V9SDR

Data: 14558V9SDR.TI
08/20/87 3:03:00
Sample: 14558-9 SPIKE DUP
Conds.: 5.7158 G, 50 UG/L SPIKE
Submitted by: AK Analyst: PAA

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

NO	NAME		
1	CI01	BROMOCHLOROMETHANE	*** INTERNAL STANDARD #1 ***
2	CI10	1,4-DIFLUOROBENZENE	*** INTERNAL STANDARD #2 ***
3	CI20	CHLOROBENZENE-D5	*** INTERNAL STANDARD #3 ***
4	C010	CHLOROMETHANE	
5	C015	BROMOMETHANE	
6	C020	VINYL CHLORIDE	
7	C025	CHLOROETHANE	
8	C030	METHYLENE CHLORIDE	
9	C045	1,1-DICHLOROETHENE	
10	C050	1,1-DICHLOROETHANE	
11	C053	1,2-DICHLOROETHENE TOTAL	
12	C060	CHLOROFORM	
13	C065	1,2-DICHLOROETHANE	
14	C115	1,1,1-TRICHLOROETHANE	
15	C120	CARBON TETRACHLORIDE	
16	C130	BROMODICHLOROMETHANE	
17	C140	1,2-DICHLOROPROPANE	
18	C172	TRANS-1,3-DICHLOROPROPENE	
19	C150	TRICHLOROETHENE	
20	C155	DIBROMOCHLOROMETHANE	
21	C160	1,1,2-TRICHLOROETHANE	
22	C165	BENZENE	
23	C143	CIS-1,3-DICHLOROPROPENE	
24	C175	2-CHLOROETHYL VINYL ETHER	
25	C180	BROMOFORM	
26	C220	TETRACHLOROETHENE	
27	C225	1,1,2,2-TETRACHLOROETHANE	
28	C230	TOLUENE	
29	C235	CHLOROBENZENE	
30	C240	ETHYL BENZENE	
31	C250	XYLENES	
32	C250	XYLENES	
33	CS15	1,2-DICHLOROETHANE-D4	*** SURROGATE #1 ***
34	CS05	TOLUENE-D8	*** SURROGATE #2 ***
35	CS10	4-BROMOFLUOROBENZENE	*** SURROGATE #3 ***

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	241	7:35	1	1.000	A BB	72715.	50.000	UG/L	2.76
2	114	560	17:36	2	1.000	A BB	353352.	50.000	UG/L	2.76
3	117	707	22:13	3	1.000	A BB	243509.	50.000	UG/L	2.76
4	50	41	1:17	1	0.170	A BB	12043.	13.551	UG/L	0.75
5	94	58	1:49	1	0.241	A BB	77520.	34.642	UG/L	1.91
6	62	72	2:16	1	0.299	A BB	58559.	34.476	UG/L	1.90
7	64	89	2:48	1	0.369	A BB	57944.	49.667	UG/L	2.74
8	84	141	4:26	1	0.585	A BB	108648.	63.623	UG/L	3.51
9	96	225	7:04	1	0.934	A BB	87584.	53.360	UG/L	2.94
10	63	266	8:22	1	1.104	A BB	202962.	59.805	UG/L	3.30
11	96	290	9:07	1	1.203	A BB	88403.	49.964	UG/L	2.76
12	83	310	9:45	1	1.286	A BB	251103.	61.701	UG/L	3.40
13	62	332	10:26	1	1.378	A BB	158892.	58.107	UG/L	3.20
14	97	369	11:36	2	0.659	A BB	184016.	56.291	UG/L	3.10
15	117	381	11:59	2	0.680	A BB	125786.	54.787	UG/L	3.02
16	83	403	12:40	2	0.720	A BB	218528.	54.993	UG/L	3.03
17	63	441	13:52	2	0.787	A BB	132592.	60.589	UG/L	3.34
18	75	450	14:09	2	0.804	A BB	178302.	44.867	UG/L	2.47
19	130	468	14:43	2	0.836	A BB	156342.	51.918	UG/L	2.86
20	129	489	15:22	2	0.873	A BB	179617.	54.802	UG/L	3.02
21	97	491	15:26	2	0.877	A BB	135844.	59.264	UG/L	3.27
22	78	480	15:05	2	0.857	A BB	305858.	56.624	UG/L	3.12
23	75	490	15:24	2	0.875	A BB	77480.	46.138	UG/L	2.54
24	63	522	16:25	2	0.932	A BB	81264.	65.608	UG/L	3.62
25	173	571	17:57	2	1.020	A BB	146442.	59.354	UG/L	3.27
26	164	640	20:07	3	0.905	A BB	140714.	54.921	UG/L	3.03
27	83	641	20:09	3	0.907	A BB	256406.	76.908	UG/L	4.24
28	92	676	21:15	3	0.956	A BB	206158.	60.328	UG/L	3.33
29	112	711	22:21	3	1.006	A BB	268804.	55.083	UG/L	3.04
30	106	764	24:01	3	1.081	A BB	119370.	56.154	UG/L	3.10
31	NOT	FOUND								
32	106	873	27:27	3	1.235	A BB	152691.	57.110	UG/L	3.15
33	65	329	10:21	1	1.365	A BB	135327.	56.765	UG/L	3.13
34	98	670	21:04	3	0.948	A BB	300462.	55.580	UG/L	3.06
35	95	822	25:50	3	1.163	A BB	216095.	46.530	UG/L	2.57

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	7:36	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
2	17:32	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
3	22:12	1.00	1.000	1.00	50.00	50.00	1.000	1.000	1.00
4	1:15	1.02	0.165	1.03	13.55	50.00	0.166	0.611	0.27
5	1:49	1.00	0.240	1.00	34.64	50.00	1.066	1.539	0.69
6	2:18	0.99	0.302	0.99	34.48	50.00	0.805	1.168	0.69
7	2:54	0.97	0.380	0.97	49.67	50.00	0.797	0.802	0.99
8	4:32	0.98	0.595	0.98	63.62	50.00	1.494	1.174	1.27
9	7:06	1.00	0.934	1.00	53.36	50.00	1.204	1.129	1.07
10	8:22	1.00	1.099	1.00	59.81	50.00	2.791	2.334	1.20
11	9:05	1.00	1.194	1.01	49.96	50.00	1.216	1.217	1.00
12	9:43	1.00	1.277	1.01	61.70	50.00	3.453	2.798	1.23
13	10:24	1.00	1.368	1.01	58.11	50.00	2.185	1.880	1.16
14	11:34	1.00	0.659	1.00	56.29	50.00	0.521	0.463	1.13
15	11:57	1.00	0.681	1.00	54.79	50.00	0.356	0.325	1.10
16	12:36	1.00	0.719	1.00	54.99	50.00	0.618	0.562	1.10
17	13:48	1.00	0.787	1.00	60.59	50.00	0.375	0.310	1.21
18	14:07	1.00	0.805	1.00	44.87	50.00	0.505	0.562	0.90
19	14:39	1.00	0.835	1.00	51.92	50.00	0.442	0.426	1.04
20	15:19	1.00	0.873	1.00	54.80	50.00	0.508	0.464	1.10
21	15:24	1.00	0.878	1.00	59.26	50.00	0.384	0.324	1.19
22	15:03	1.00	0.858	1.00	56.62	50.00	0.866	0.764	1.13
23	15:22	1.00	0.876	1.00	46.14	50.00	0.219	0.238	0.92
24	16:23	1.00	0.934	1.00	65.61	50.00	0.230	0.175	1.31
25	17:53	1.00	1.020	1.00	59.35	50.00	0.414	0.349	1.19
26	20:03	1.00	0.904	1.00	54.92	50.00	0.578	0.526	1.10
27	20:07	1.00	0.907	1.00	76.91	50.00	1.053	0.685	1.54
28	21:11	1.00	0.955	1.00	60.33	50.00	0.847	0.702	1.21
29	22:19	1.00	1.006	1.00	55.08	50.00	1.104	1.002	1.10
30	23:59	1.00	1.081	1.00	56.15	50.00	0.490	0.436	1.12
31	26:53		1.208			50.00		0.007	
32	27:25	1.00	1.235	1.00	57.11	50.00	0.627	0.549	1.14
33	10:19	1.00	1.355	1.01	56.76	50.00	1.861	1.639	1.14
34	21:02	1.00	0.948	1.00	55.58	50.00	1.234	1.110	1.11
35	25:48	1.00	1.163	1.00	46.53	50.00	0.887	0.954	0.93

ORDER ANALYSIS

AnalytiKEM

Column Length: 6 Ft
Diameter: 4 mm
Liq. Phase: SP2250 / 2401
Wt%: 1.5 / 1.95
Support: Supelcoport
Mesh: 100 / 120
Carrier Gas: Argon / Methane
Rate ml/min.: 55
Solvent: Hexane

Chart Speed: 1.0 cm/min
Detector: Sigma 300
Range: —
Hydrogen flow ml/min.: —
Air flow ml/min.: —
Temperature °C
Detector: 250°C
Injector: 200°C
Column: 230°C

SAMPLE ID	LAB ID	DATE OF ANALYSIS
	Calibration Curve	—
	Daily Standards	8-27-87
		8-28-87
	14558 - BLK	8-26-87
	-1	8-29-87
	2	8-28-87
	3	↓
	4	
	5	↓
	6	8-29-87
	7	8-28-87
	8	↓
	9	
	10	↓
	14553-1 Pest MS	8-26-87
	Pest MSD	↓
	-9 PCB MS	
	PCB MSD	
	-BLK Tox MS	↓
	GC Confirmations	8-31-87
		9-1-87, 9-3-87

Analyst: D. Eng

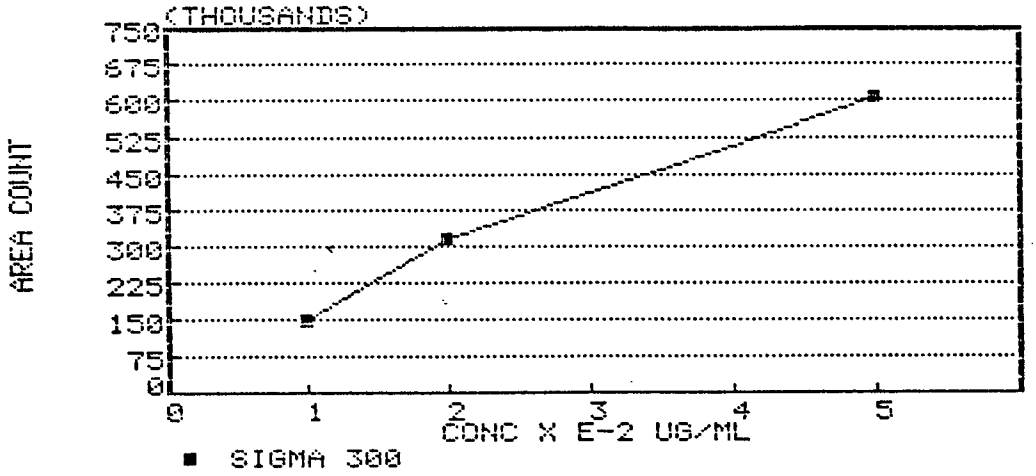
Date: 9-1-87

500

SIGMA 300

1	151195
2	319923
5	605615

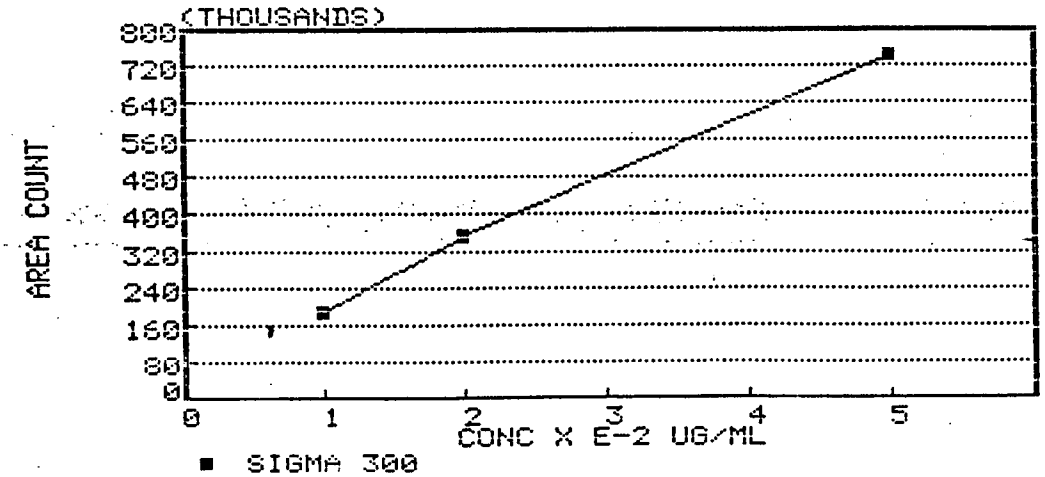
A1242 CC 8-23-87 DAE023.CC



SIGMA 300

1	189958
2	359236
5	747145

A1248 CC 8-23-87 DAE024.CC

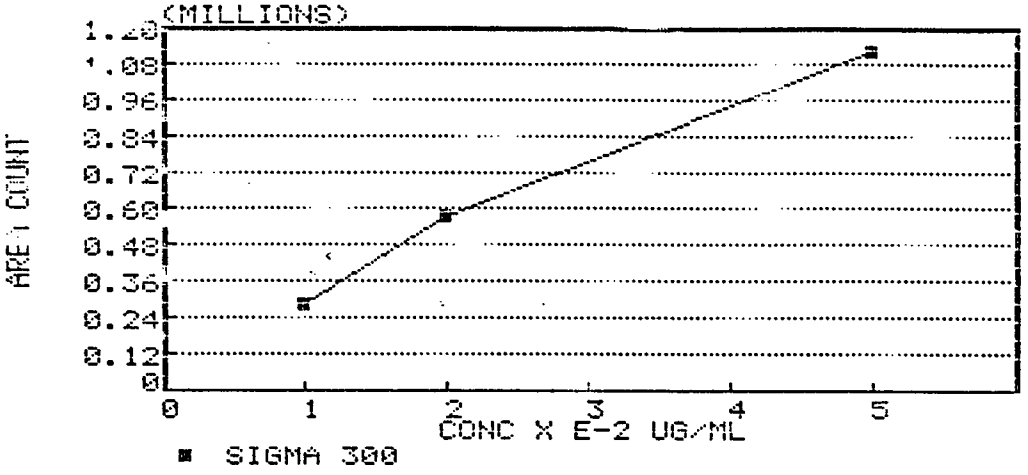


GC CALIBRATION CURVE

SIGMA 300

1	288023
2	577661
5	1.13111E6

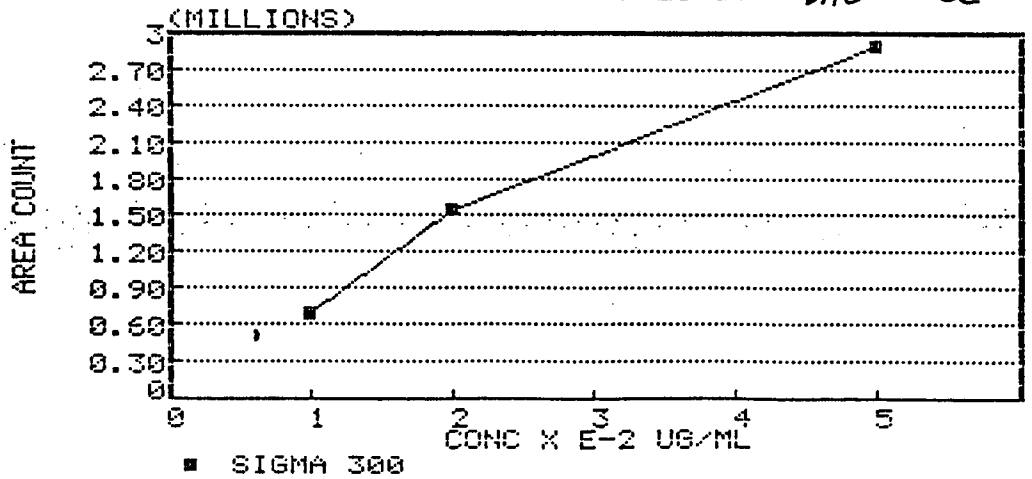
A1254 CC 8-23-87 DAE025.CC



SIGMA 300

1	701213
2	1.56065E6
5	2.91235E6

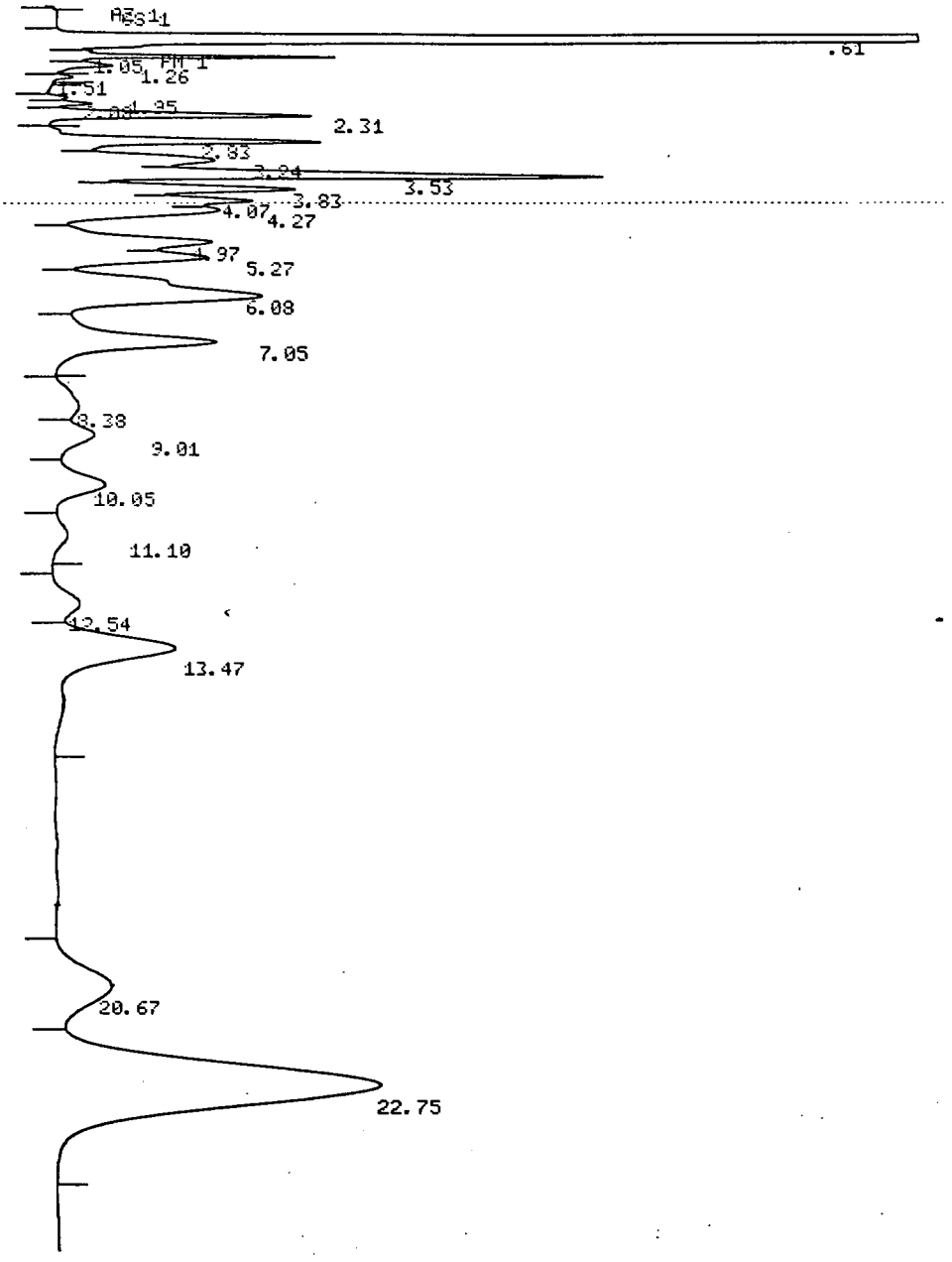
A1260 CC 8-23-87 DAE026.CC



502

A1242 LO STD 1472-205N SIGMA 300 8/23/87 AT= 2

CHANNEL A INJECT 08/23/87 16:59:05



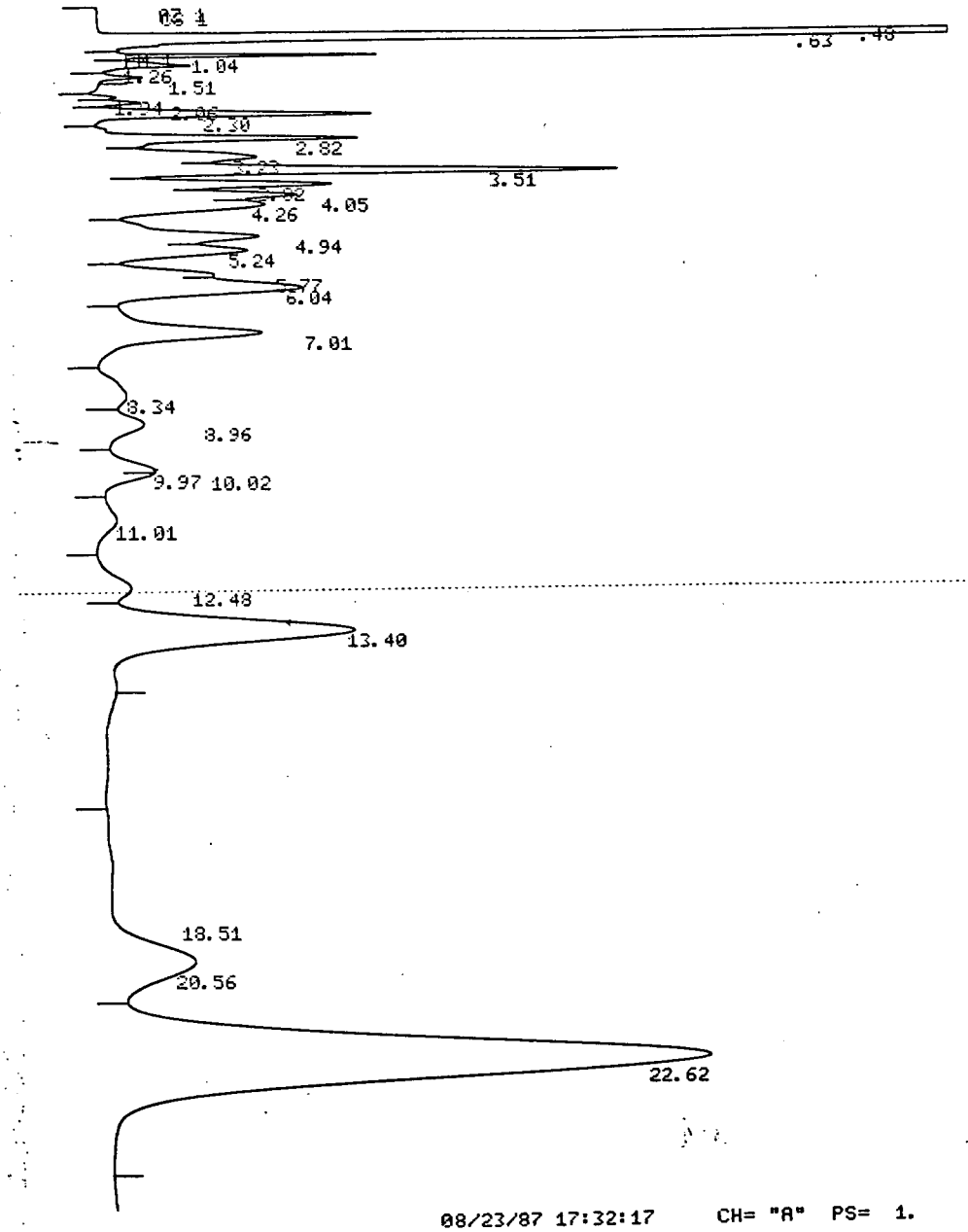
08/23/87 16:59:05 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 152 INDEX 152

PEAK#	AREA%	RT	AREA BC
1	78.535	0.61	1101254 08
2	0.324	1.05	4540 06
3	0.096	1.26	1345 07
4	0.026	1.51	361 05
5	0.031	1.95	441 02
6	0.079	2.08	1103 02
7	0.612	2.31	8582 03
8	0.773	2.83	10834 02
9	0.748	3.24	10486 02
10	1.777	3.53	24916 02
11	0.806	3.83	11308 02
12	0.729	4.07	10222 02
13	0.794	4.27	11139 02
14	0.835	4.97	11706 02
15	0.762	5.27	10680 02
16	1.792	6.08	25134 02
17	1.154	7.05	16188 03
18	0.247	8.38	3461 02
19	0.358	9.01	5017 02
20	0.463	10.05	6487 02
21	0.146	11.1	2041 03
22	0.266	12.54	3724 02
23	1.554	13.47	21787 03
24	0.92	20.67	12906 02
25	6.174	22.75	86577 03
TOTAL	100.		1402239

A1242 MED STD 1472-2050 SIGMA 300 8/23/87 AT= 4

CHANNEL A INJECT 08/23/87 17:32:17



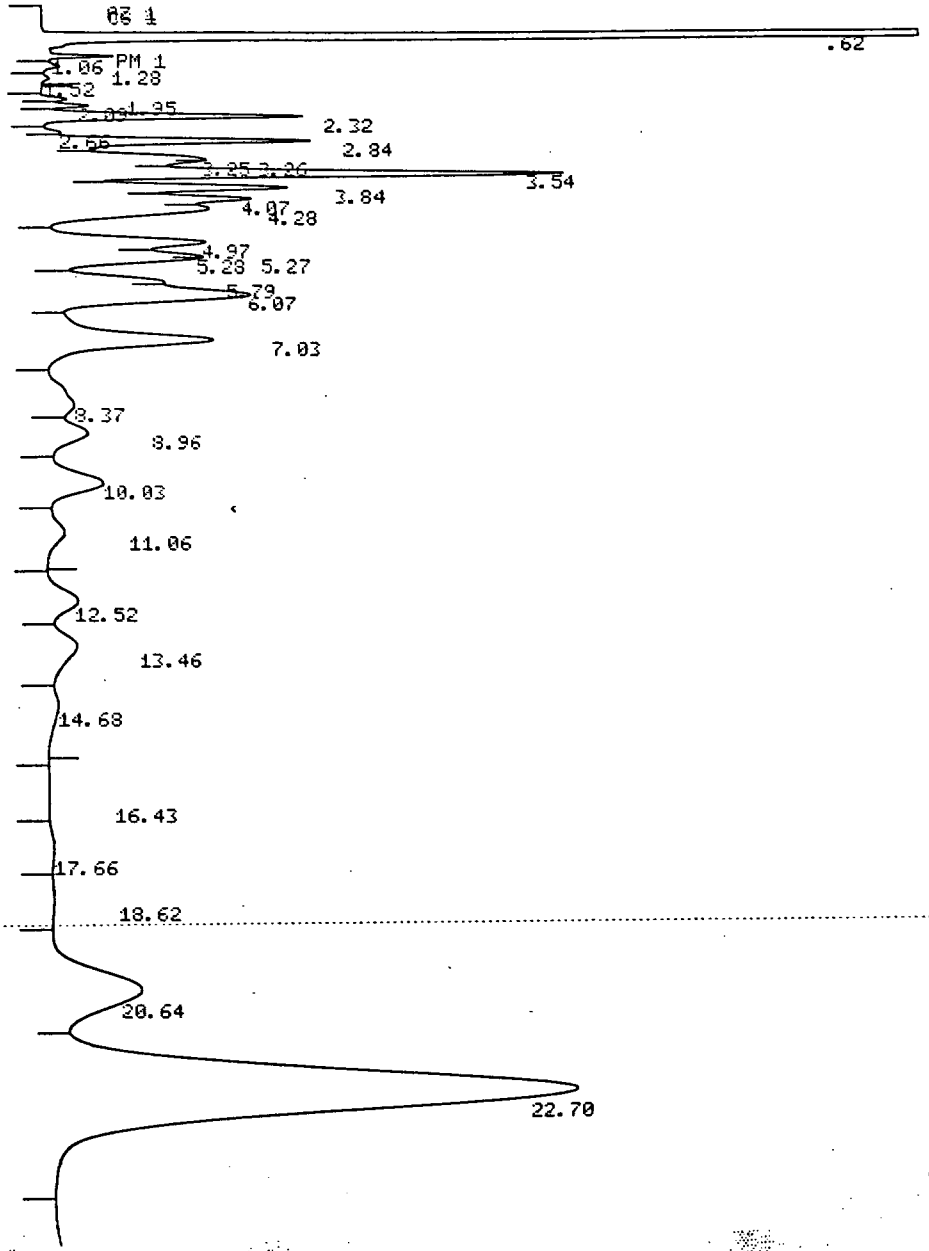
08/23/87 17:32:17 CH= "A" PS= 1.

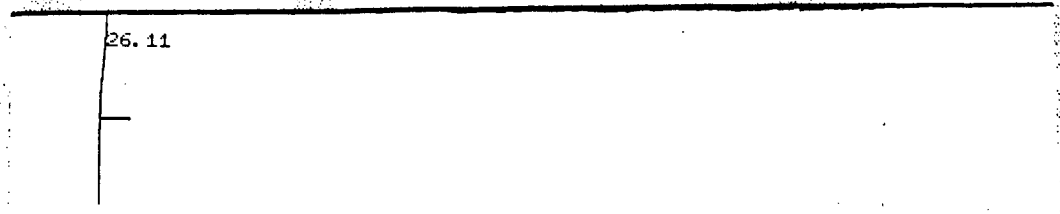
FILE 1. METHOD 0. RUN 153 INDEX 153

PEAK#	AREA%	RT	AREA BC
1	0.045	0.48	1012 02
2	62.689	0.63	1417659 08
3	0.348	1.04	7876 06
4	0.21	1.26	4746 06
5	0.071	1.51	1611 07
6	0.053	1.94	1195 06
7	0.118	2.06	2667 06
8	0.872	2.3	19723 06
9	0.99	2.82	22394 06
10	0.986	3.23	22302 06
11	2.068	3.51	46757 06
12	0.998	3.82	22573 06
13	0.913	4.05	20640 06
14	1.084	4.26	24513 06
15	1.208	4.94	27317 06
16	0.984	5.24	22263 06
17	0.589	5.77	13316 06
18	1.785	6.04	40373 06
19	1.669	7.01	37752 06
20	0.469	8.34	10616 06
21	0.644	8.96	14573 06
22	0.411	9.97	9304 06
23	0.318	10.02	7196 06
24	0.309	11.01	6982 06
25	0.35	12.48	7913 06
26	3.425	13.4	77446 07
27	0.145	18.51	3284 02
28	1.864	20.56	42163 02
29	14.382	22.62	325242 03

A1242 HI STD 1472-205P SIGMA 300 8/23/87 AT= 8

CHANNEL A INJECT 08/23/87 18:07:53





08/23/87 18:07:53 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 154 INDEX 154

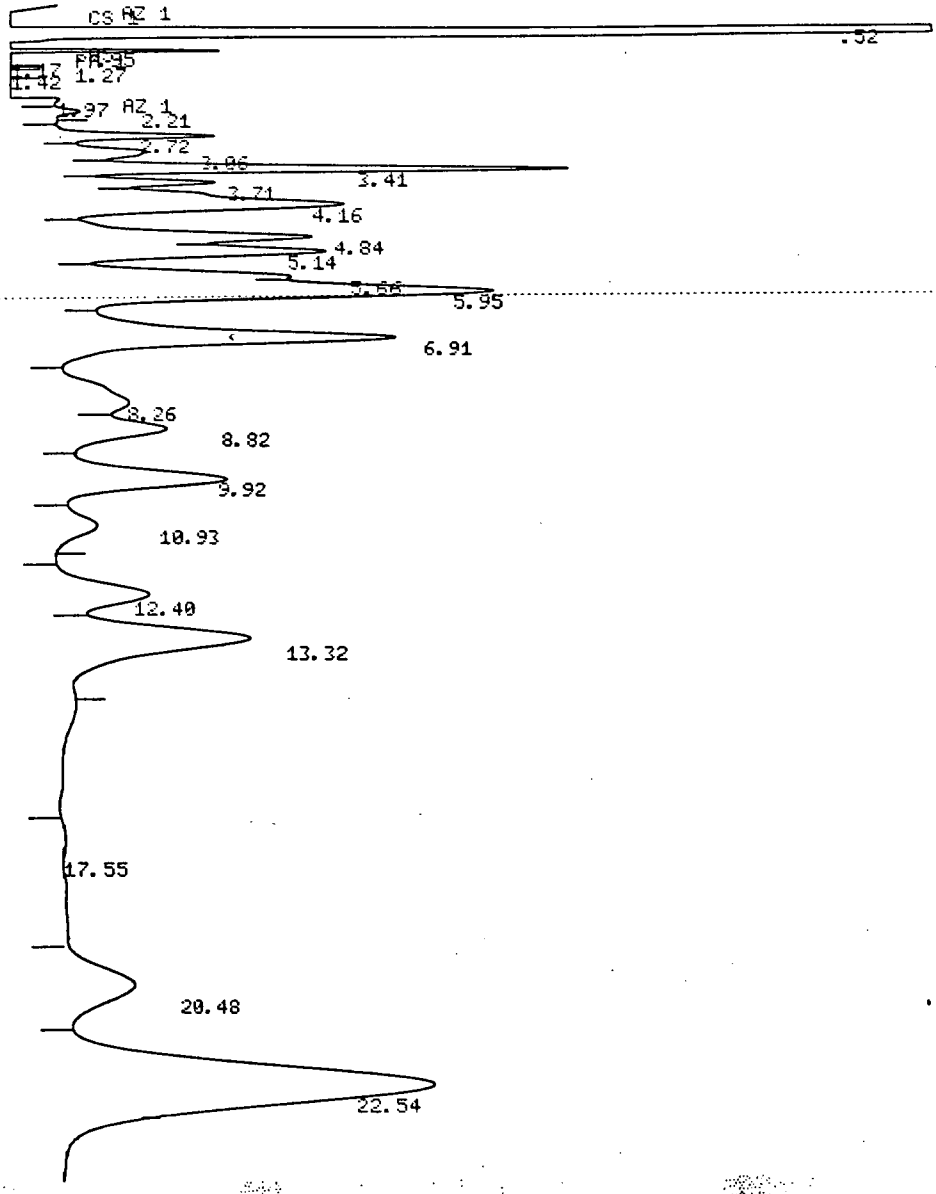
PEAK#	AREA%	RT	AREA	BC
1	44.277	0.62	1127992	08
2	0.168	1.06	4292	06
3	0.06	1.28	1531	06
4	0.027	1.52	682	07
5	0.095	1.95	2418	02
6	0.184	2.09	4677	02
7	1.356	2.32	34533	02
8	0.082	2.66	2078	02
9	1.678	2.84	42756	02
10	0.957	3.25	24375	02
11	0.708	3.26	18036	02
12	3.673	3.54	93575	02
13	1.757	3.84	44748	02
14	1.592	4.07	40561	02
15	1.764	4.28	44944	02
16	1.67	4.97	42532	02
17	0.839	5.27	21386	02
18	0.948	5.28	24155	02
19	0.934	5.79	23782	02
20	3.065	6.07	78091	02
21	2.75	7.03	70063	02
22	0.739	8.37	18817	02
23	0.85	8.96	21651	02
24	1.155	10.03	29418	02
25	0.409	11.06	10432	03
26	0.654	12.52	16673	02
27	0.868	13.46	22111	02
28	0.324	14.68	8246	03
29	0.033	16.43	853	02
30	0.149	17.66	3799	02
31	0.159	18.62	4056	02
32	3.516	20.64	89577	02
33	22.248	22.7	566784	08
34	0.311	26.11	7932	05
TOTAL	100.		2547556	

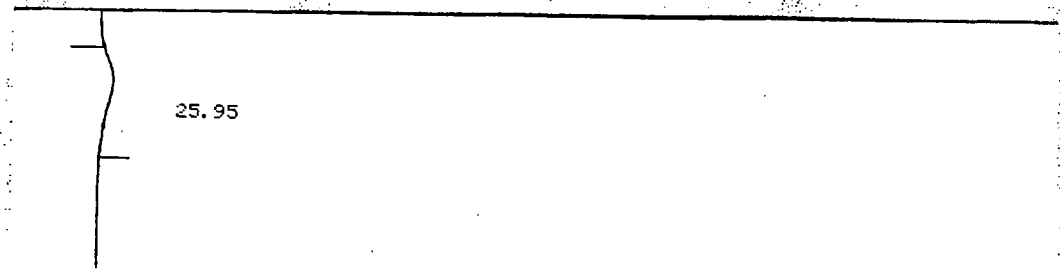
A1248 LO STD 1472-205T SIGMA 300 8/23/87 AT= 2

CHANNEL A INJECT 08/23/87 19:31:25

NO DATA, CHANNEL A

CHANNEL A INJECT 08/23/87 19:31:31





08/23/87 19:31:31 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 157 INDEX 157

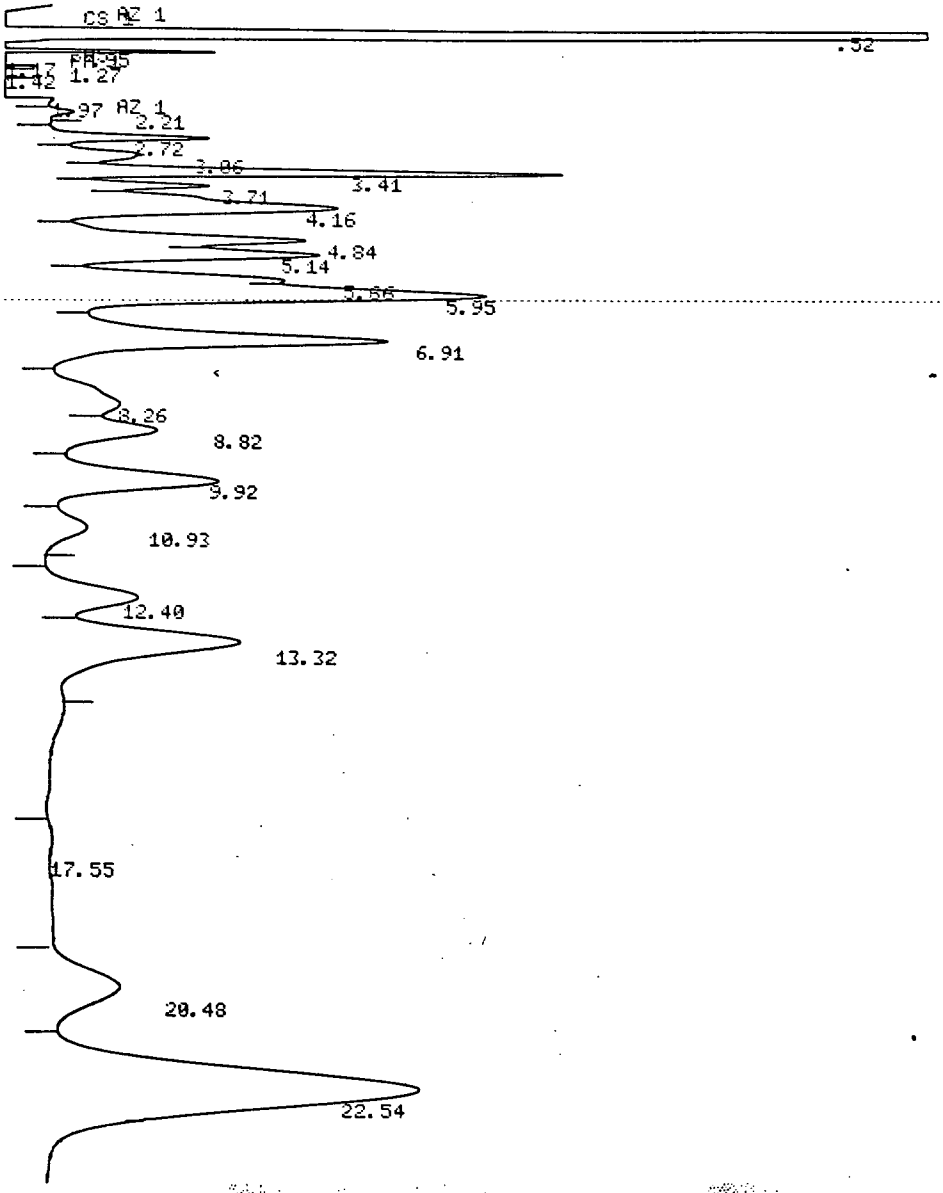
PEAK#	AREA%	RT	AREA BC
1	75.775	0.52	1277744 08
2	0.006	0.85	97 06
3	0.225	0.95	3788 06
4	0.058	1.17	983 07
5	0.	1.27	4 05
6	0.018	1.42	310 01
7	0.036	1.97	605 02
8	0.048	2.21	815 03
9	0.336	2.72	5661 02
10	0.341	3.06	5747 02
11	1.266	3.41	21347 02
12	0.417	3.71	7039 02
13	1.604	4.16	27045 02
14	1.03	4.84	17363 02
15	1.055	5.14	17794 02
16	0.741	5.66	12494 02
17	2.389	5.95	40282 02
18	2.087	6.91	35186 02
19	0.698	8.26	11774 02
20	0.795	8.82	13398 02
21	1.286	9.92	21683 02
22	0.334	10.93	5640 03
23	0.687	12.4	11590 02
24	1.73	13.32	29167 03
25	0.162	17.55	2735 02
26	0.983	20.48	16576 02
27	5.707	22.54	96239 03
28	0.186	25.95	3129 01
TOTAL	100.		1686235

A1248 LO STD 1472-205T SIGMA 300 8/23/87 AT= 2

CHANNEL A INJECT 08/23/87 19:31:25

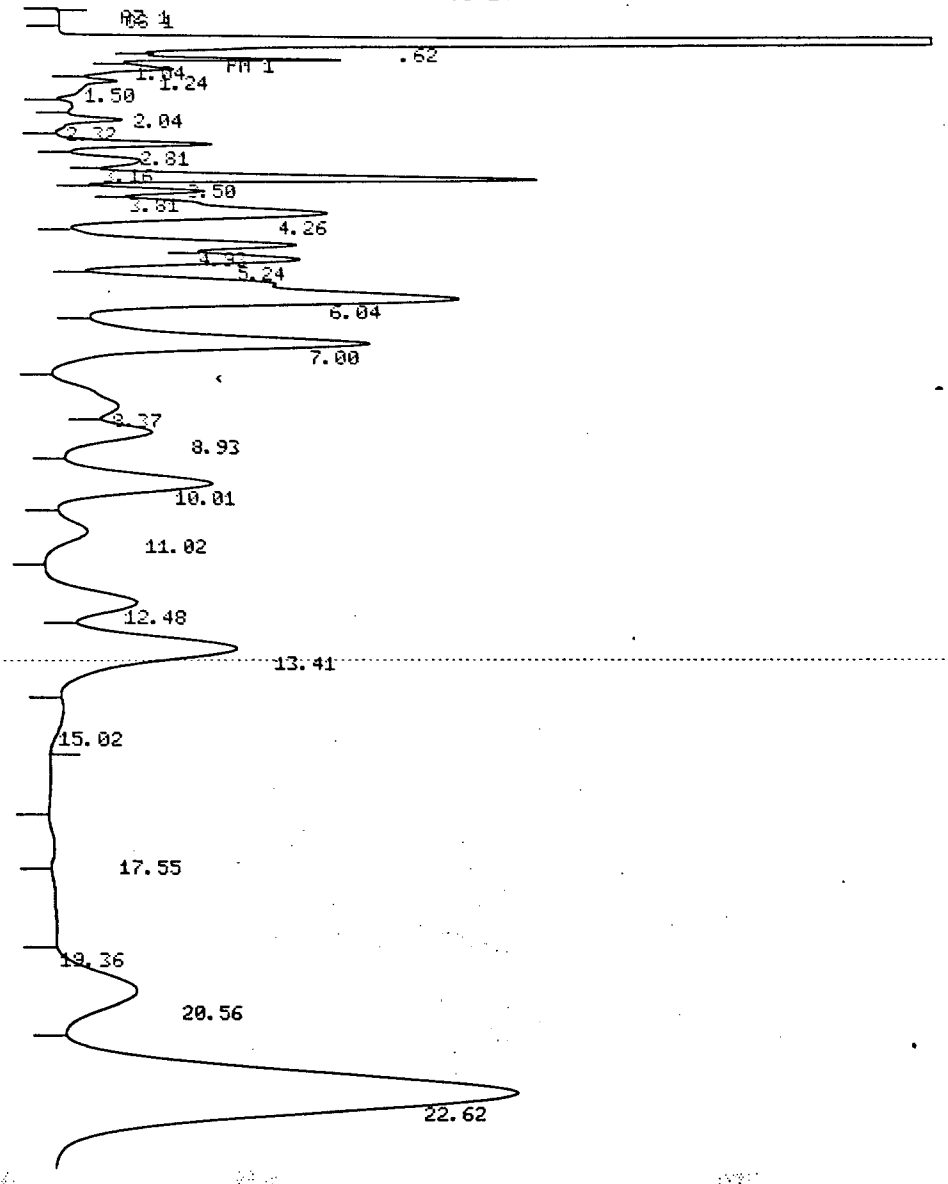
NO DATA, CHANNEL A

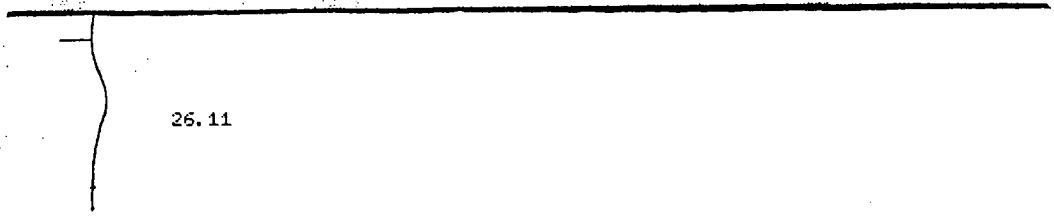
CHANNEL A INJECT 08/23/87 19:31:31



A1248 MED STD 1472-205U SIGMA 300 8/23/87 AT= 4

CHANNEL A INJECT 08/23/87 20:03:14





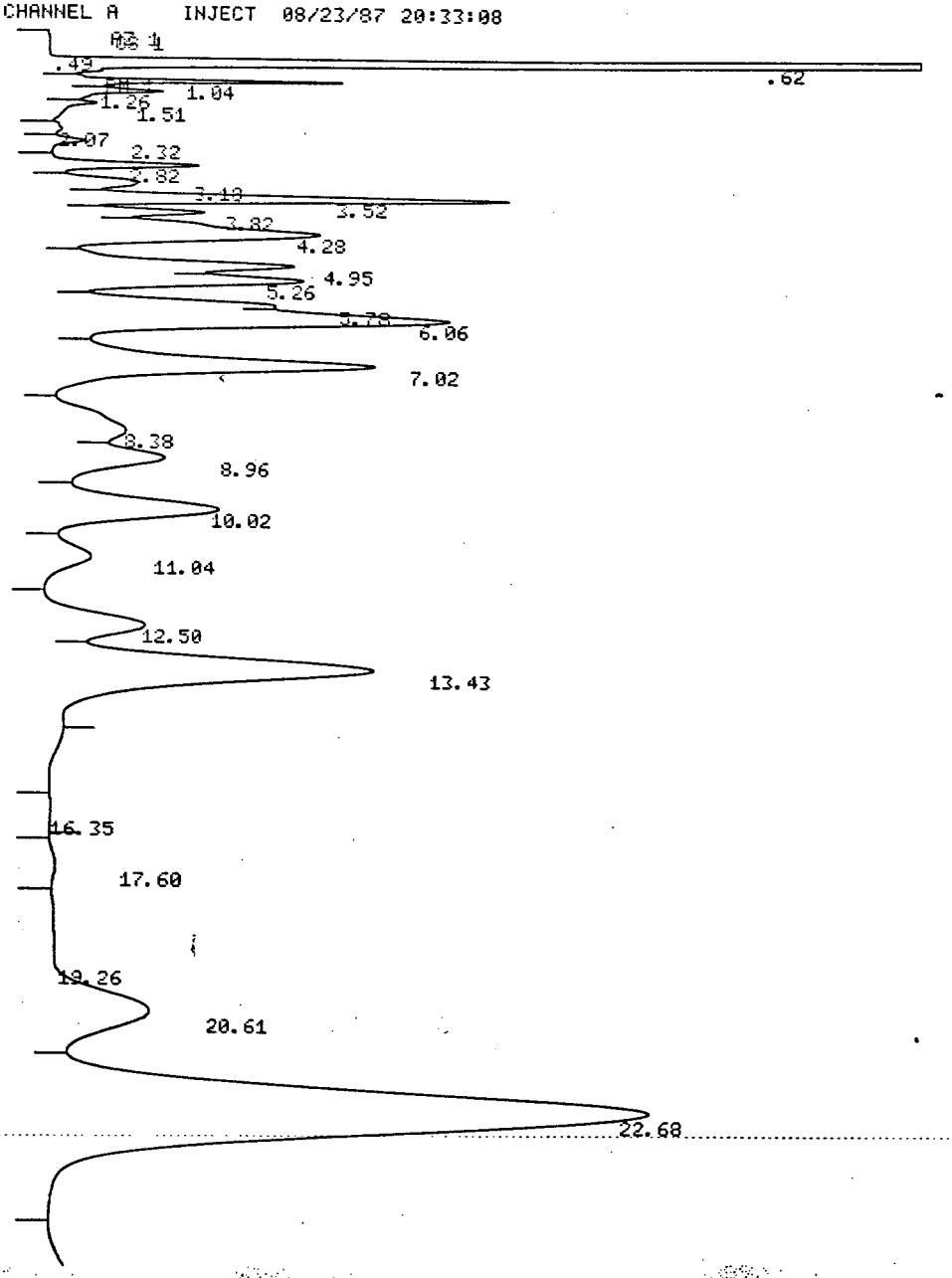
08/23/87 20:03:14 CH= "A" PS= 1.

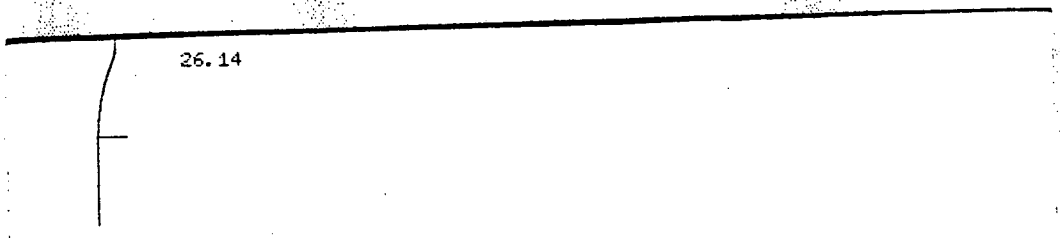
FILE 1. METHOD 0. RUN 158 INDEX 158

PEAK#	AREA%	RT	AREA BC
1	60.138	0.62	1367329 02
2	0.633	1.04	14397 02
3	0.433	1.24	9847 02
4	0.293	1.5	6652 02
5	0.081	2.04	1833 02
6	0.22	2.32	5005 02
7	0.486	2.81	11040 02
8	0.449	3.16	10208 02
9	1.798	3.5	40884 02
10	0.574	3.81	13056 02
11	2.291	4.26	52088 02
12	1.424	4.93	32380 02
13	1.452	5.24	33010 02
14	4.417	6.04	100430 02
15	2.909	7.	66140 02
16	0.965	8.37	21952 02
17	1.127	8.93	25630 02
18	1.848	10.01	42012 02
19	0.514	11.02	11678 02
20	1.106	12.48	25149 02
21	2.895	13.41	65826 02
22	0.253	15.02	5750 03
23	0.079	17.55	1787 02
24	0.222	19.36	5043 02
25	1.862	20.56	42344 02
26	10.995	22.62	249989 02
27	0.537	26.11	12211 03
TOTAL	100.		2273670

A1248 I HI STD 1472-205V SIGMA 300 8/23/87 AT= 8

CHANNEL A INJECT 08/23/87 20:33:08





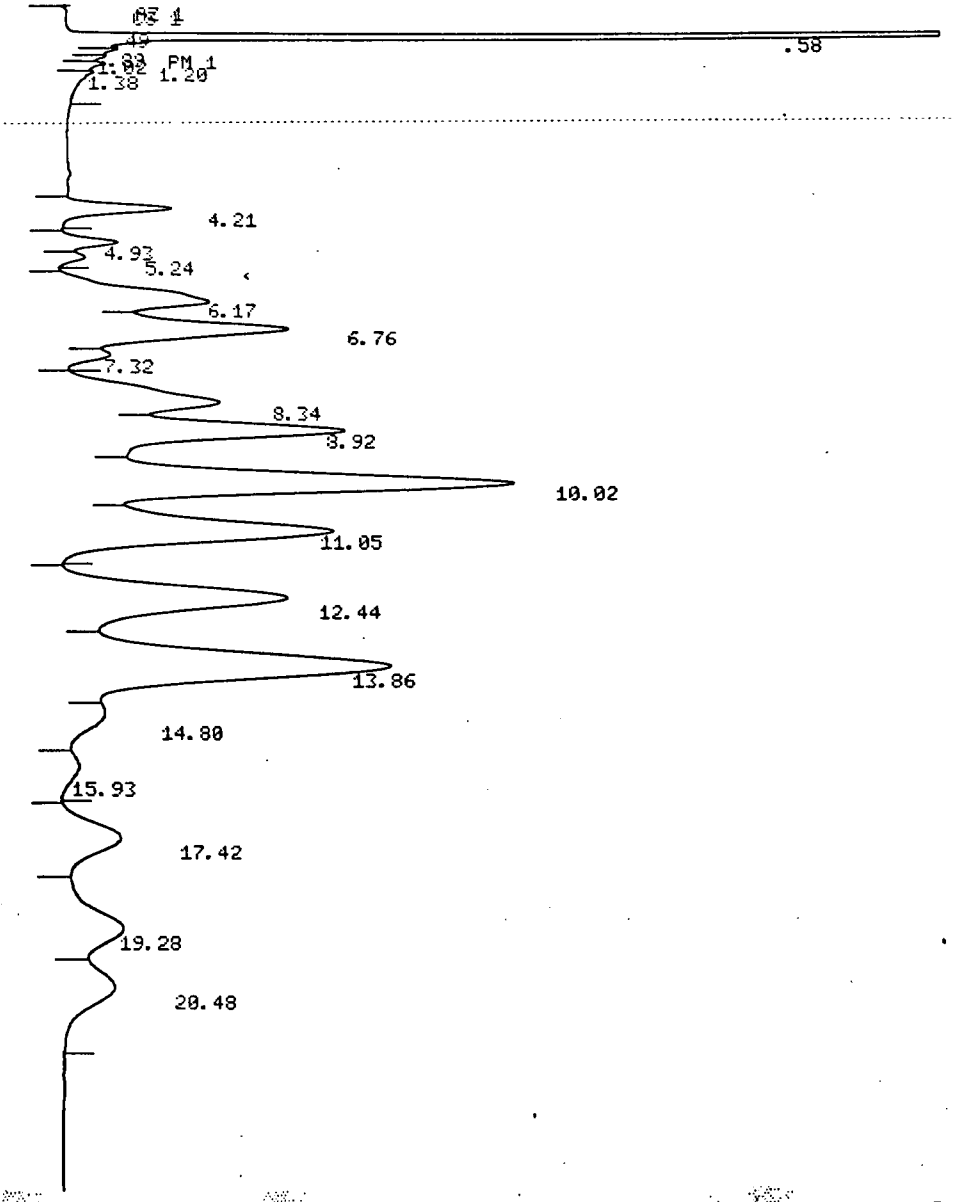
08/23/87 20:33:08 CH= "A" PS= 1.

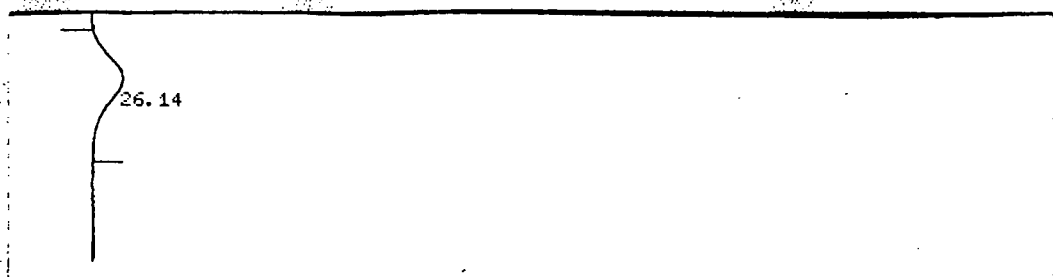
FILE 1. METHOD 0. RUN 159 INDEX 159

PEAK#	AREA%	RT	AREA BC
1	0.019	0.49	654 02
2	40.225	0.62	1398043 08
3	0.611	1.04	21233 06
4	0.367	1.26	12770 06
5	0.136	1.51	4711 06
6	0.052	2.07	1797 06
7	0.126	2.32	4395 06
8	0.623	2.82	21647 06
9	0.631	3.18	21917 06
10	2.346	3.52	81529 06
11	0.829	3.82	28798 06
12	3.093	4.28	107487 06
13	1.964	4.95	68244 06
14	2.053	5.26	71352 06
15	1.326	5.78	46093 06
16	4.538	6.06	157729 06
17	4.096	7.02	142349 06
18	1.538	8.38	53450 06
19	1.804	8.96	62713 06
20	2.659	10.02	92408 06
21	0.767	11.04	26673 06
22	1.499	12.5	52115 06
23	5.917	13.43	205651 07
24	0.019	16.35	646 01
25	0.125	17.6	4339 02
26	0.271	19.26	9426 02
27	2.87	20.61	99739 02
28	18.71	22.68	650268 02
29	0.787	26.14	27368 03
TOTAL	100.		3475544

A1254 LO STD 1495-129G SIGMA 300 8/23/87 AT= 2

CHANNEL A INJECT 08/23/87 21:16:13





08/23/87 21:16:13 CH= "A" PS= 1.

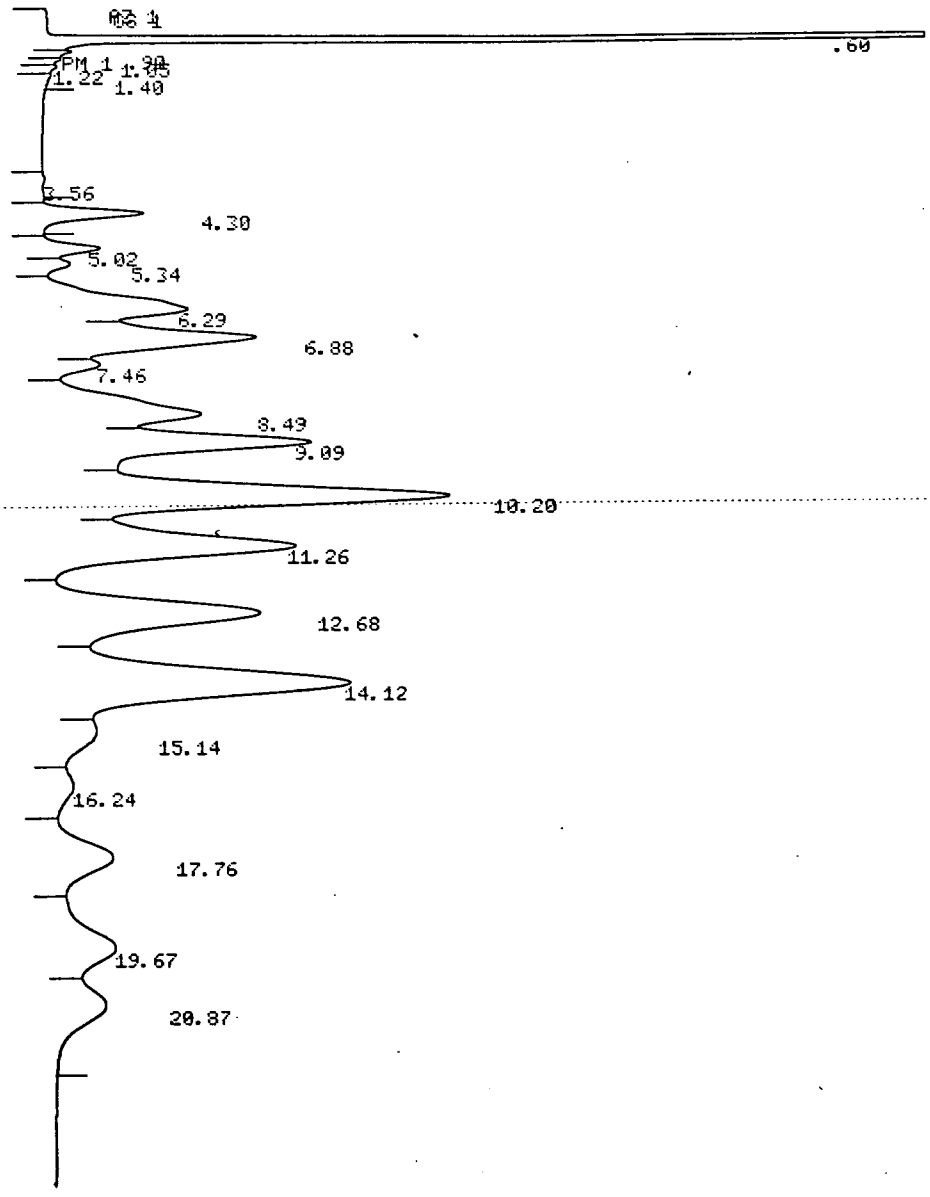
FILE 1. METHOD 0. RUN 160 INDEX 160

PEAK#	AREA%	RT	AREA	BC
1	0.118	0.49	540	02
2	21.188	0.58	96815	02
3	0.372	0.89	1701	02
4	0.265	1.02	1213	02
5	0.339	1.2	1547	02
6	0.396	1.38	1808	03
7	1.261	4.21	5760	01
8	0.667	4.93	3048	02
9	0.279	5.24	1275	03
10	3.81	6.17	17409	02
11	5.532	6.76	25277	02
12	0.606	7.32	2771	03
13	4.311	8.34	19697	02
14	7.26	8.92	33173	02
15	12.575	10.02	57461	02
16	8.396	11.05	38366	03
17	7.766	12.44	35484	02
18	12.777	13.86	58385	02
19	1.615	14.8	7380	02
20	0.567	15.93	2593	03
21	2.408	17.42	11002	02
22	3.08	19.28	14076	02
23	2.563	20.48	11712	03
24	1.849	26.14	8450	01
TOTAL	100.		456943	

514

A1254 MED STD 1495-129H SIGMA 300 8/24/87 AT= 4

CHANNEL A INJECT 08/24/87 08:24:08



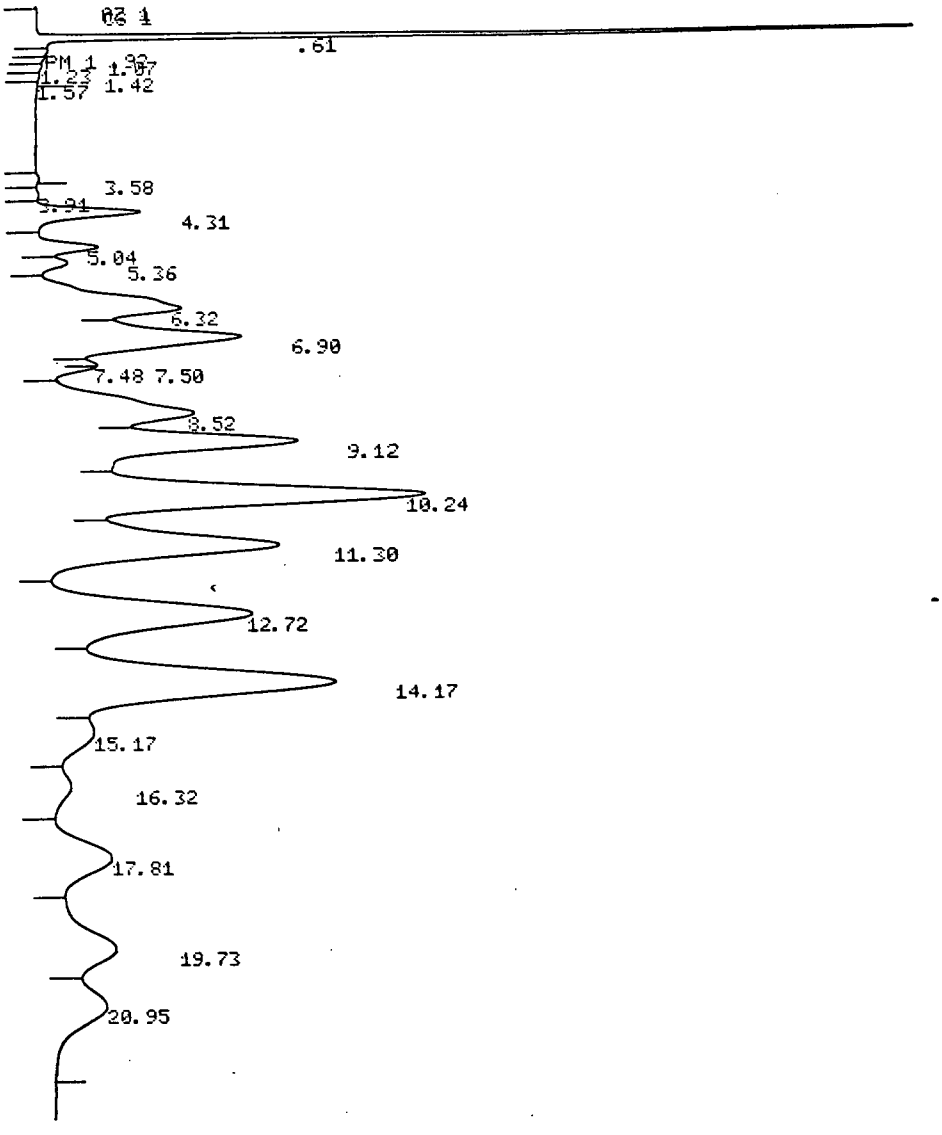
08/24/87 08:24:08 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 161 INDEX 161

PEAK#	AREA%	RT	AREA	BC
1	22.109	0.6	200503	02
2	0.178	0.9	1612	02
3	0.105	1.05	951	02
4	0.094	1.22	849	02
5	0.062	1.4	560	03
6	0.008	3.56	71	01
7	1.219	4.3	11059	01
8	0.706	5.02	6403	02
9	0.322	5.34	2922	02
10	4.031	6.29	36554	02
11	5.617	6.88	50939	02
12	0.929	7.46	8424	02
13	5.031	8.49	45629	02
14	7.507	9.09	68084	02
15	12.087	10.2	109611	02
16	8.374	11.26	75944	02
17	7.815	12.68	70872	02
18	12.306	14.12	111604	02
19	1.892	15.14	17159	02
20	0.856	16.24	7766	02
21	2.781	17.76	25224	02
22	3.332	19.67	30215	02
23	2.638	20.87	23928	03
TOTAL	100.		906883	

A1254 HI STD 1495-129I 8/24/87 SIGMA 300 AT= 8

CHANNEL A INJECT 08/24/87 08:53:04



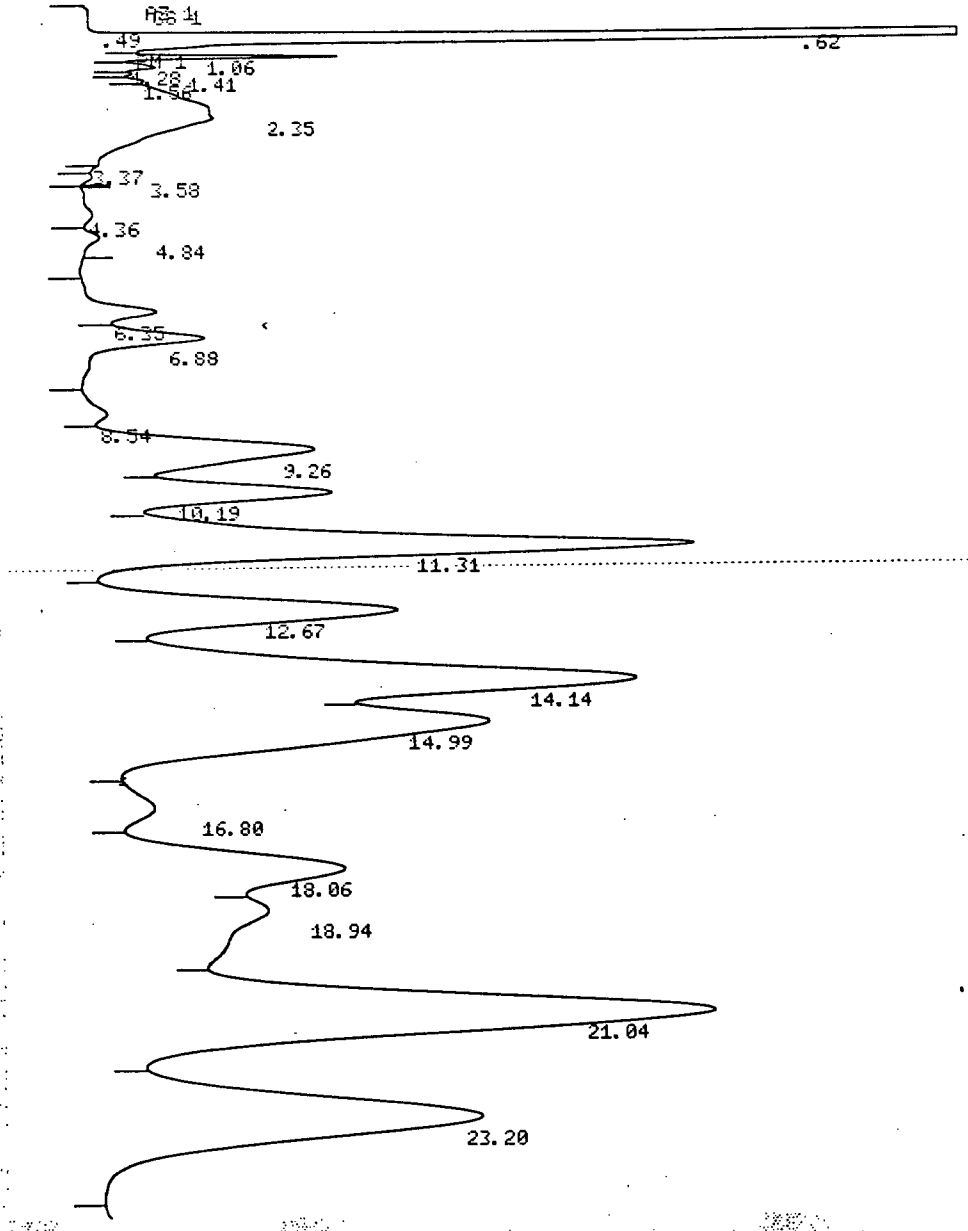
08/24/87 08:53:04 CH= "A" PS= 1.

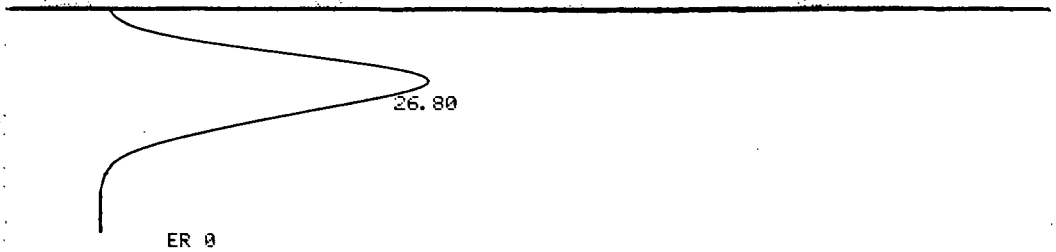
FILE 1. METHOD 0. RUN 162 INDEX 162

PEAK#	AREA%	RT	AREA BC
1	6.183	0.61	92113 02
2	0.12	0.92	1784 02
3	0.066	1.07	987 02
4	0.048	1.23	719 02
5	0.027	1.42	396 02
6	0.003	1.57	44 03
7	0.021	3.58	317 01
8	0.022	3.91	322 02
9	1.552	4.31	23122 02
10	0.921	5.04	13723 02
11	0.459	5.36	6840 02
12	4.935	6.32	73522 02
13	6.709	6.9	99942 02
14	0.521	7.48	7755 02
15	0.679	7.5	10120 02
16	6.155	8.52	91694 02
17	8.941	9.12	133196 02
18	14.052	10.24	209340 02
19	9.908	11.3	147611 02
20	9.479	12.72	141219 02
21	14.547	14.17	216717 02
22	2.326	15.17	34654 02
23	1.087	16.32	16198 02
24	3.538	17.81	52713 02
25	4.298	19.73	64033 02
26	3.401	20.95	50664 03
TOTAL	100.		1489745

A1260 LO STD 1472-205H SIGMA 300 8/24/87 AT= 2

CHANNEL A INJECT 08/24/87 09:17:33





ER 0

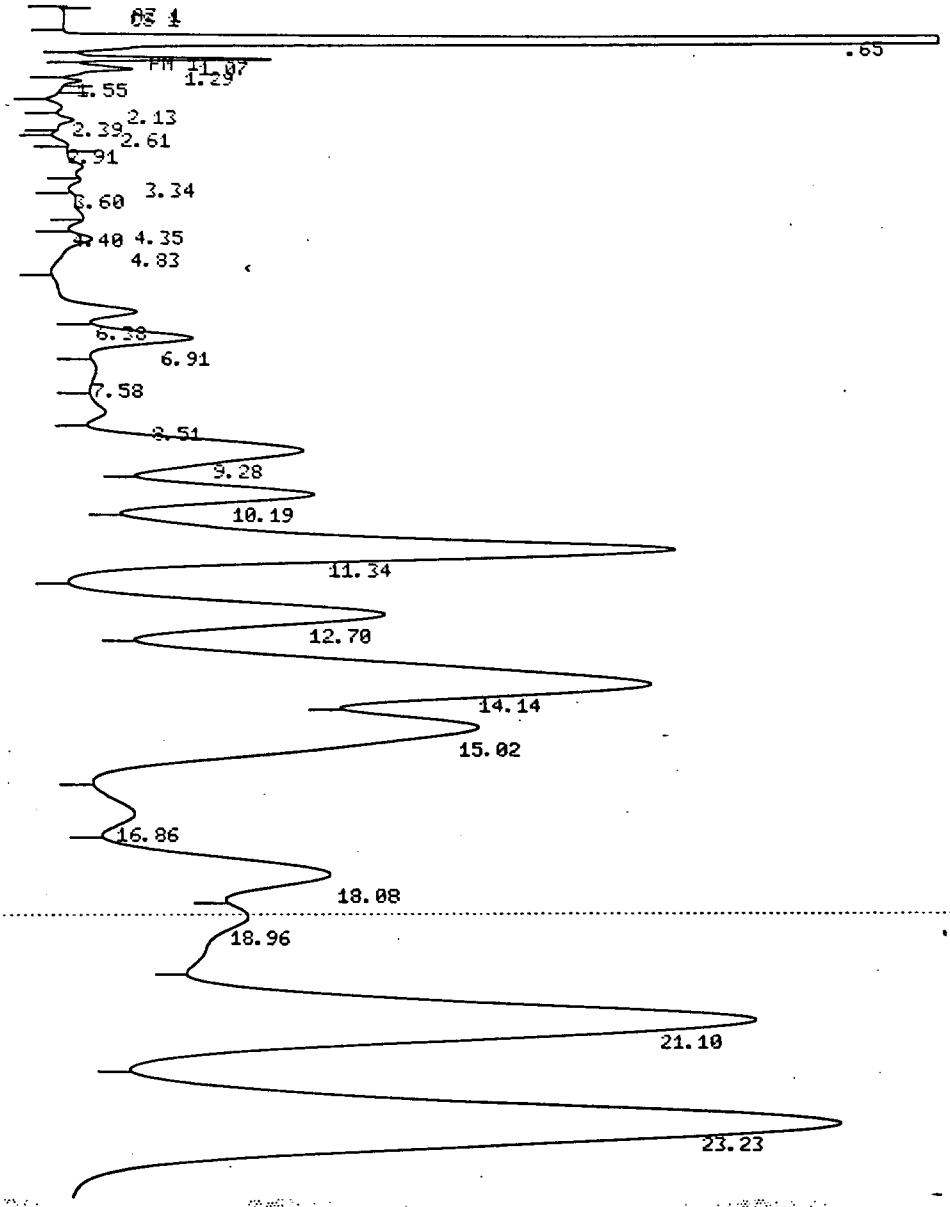
08/24/87 09:17:33 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 163 INDEX 163

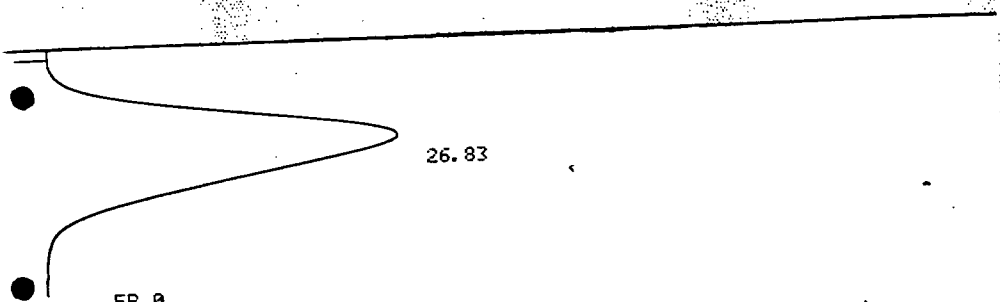
PEAK#	AREA%	RT	AREA BC
1	0.025	0.49	588 02
2	57.122	0.62	1326131 08
3	0.148	1.06	3430 06
4	0.038	1.28	888 06
5	0.009	1.41	200 06
6	0.03	1.56	690 06
7	1.111	2.35	25797 06
8	0.009	3.37	214 06
9	0.015	3.58	348 07
10	0.046	4.36	1057 02
11	0.05	4.84	1154 03
12	0.275	6.35	6375 02
13	0.564	6.88	13089 08
14	0.047	8.54	1086 06
15	1.535	9.26	35639 02
16	1.365	10.19	31684 02
17	3.941	11.31	91501 02
18	2.109	12.67	48973 02
19	4.823	14.14	111966 02
20	4.033	14.99	93619 02
21	0.572	16.8	13290 02
22	2.421	18.06	56195 02
23	2.456	18.94	57020 02
24	6.949	21.04	161326 02
25	4.641	23.2	107737 02
26	5.667	26.8	131564 03
TOTAL	100.		2321561

A1260 MED STD 1472-205I SIGMA 300 8/24/87 AT= 4

CHANNEL A INJECT 08/24/87 09:48:55



519 21 2 3



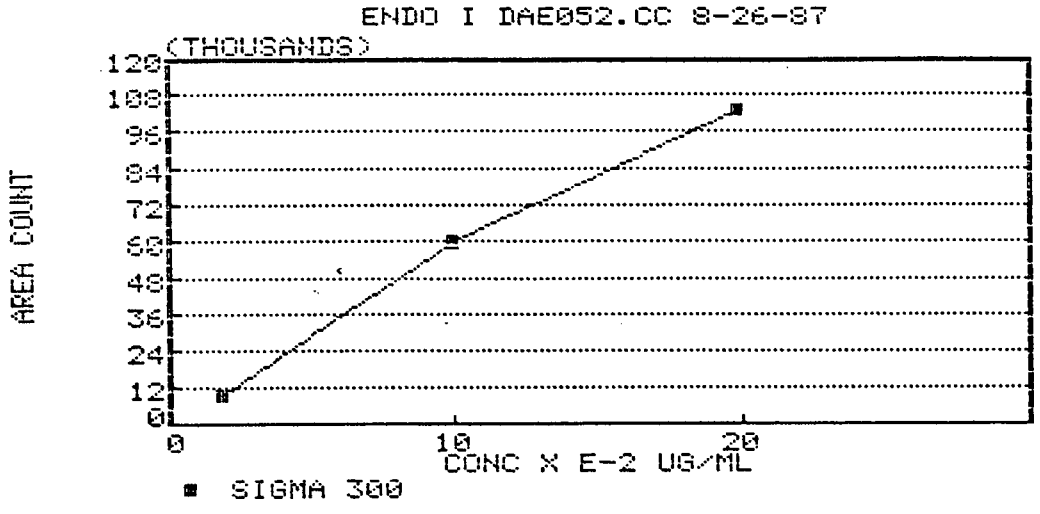
ER 0

08/24/87 09:48:55 CH= "A" PS= 1.

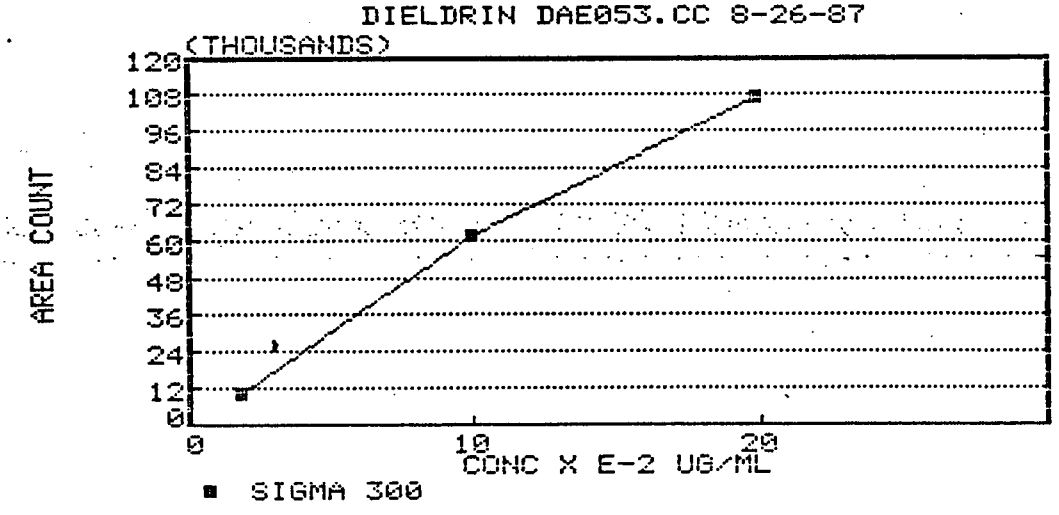
FILE 1. METHOD 0. RUN 164 INDEX 164

PEAK#	AREA%	RT	AREA BC
1	38.439	0.65	1494736 08
2	0.184	1.07	7167 06
3	0.114	1.29	4430 06
4	0.02	1.55	776 07
5	0.037	2.13	1422 02
6	0.065	2.39	2539 02
7	0.004	2.61	143 02
8	0.015	2.91	580 03
9	0.069	3.34	2701 02
10	0.048	3.6	1856 02
11	0.128	4.35	4995 02
12	0.059	4.4	2282 02
13	0.172	4.83	6680 02
14	0.393	6.38	15279 02
15	0.761	6.91	29608 02
16	0.388	7.58	15087 02
17	0.401	8.51	15587 02
18	2.077	9.28	80771 02
19	1.712	10.19	66588 02
20	4.894	11.34	190302 02
21	2.682	12.7	104308 02
22	7.065	14.14	274719 02
23	5.092	15.02	197986 02
24	0.855	16.86	33230 02
25	3.163	18.08	122988 02
26	3.168	18.96	123206 02
27	9.427	21.1	366555 02
28	11.172	23.23	434426 02
29	7.396	26.83	287607 03
TOTAL	100.		3888554

	SIGMA 300
2	9965
10	60421
20	103384

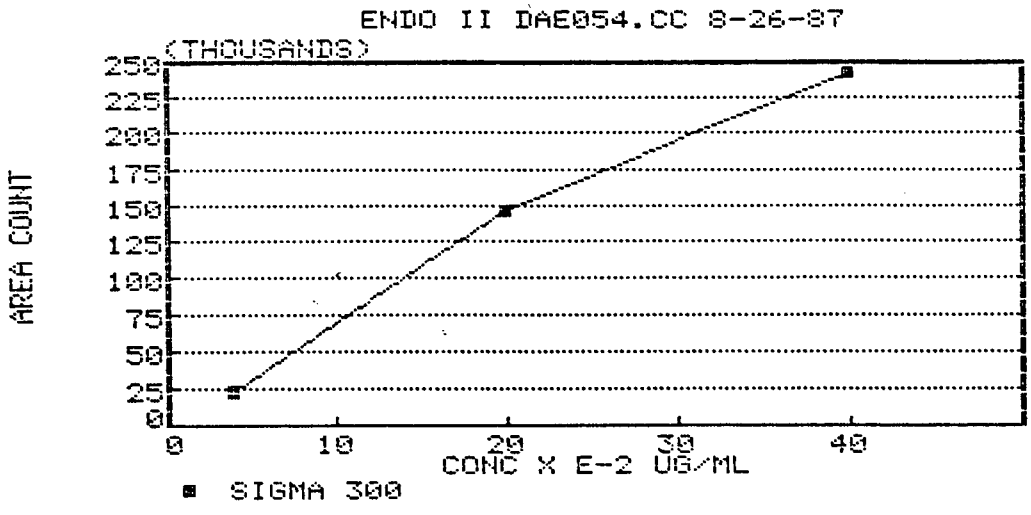


	SIGMA 300
2	10388
10	62361
20	107727



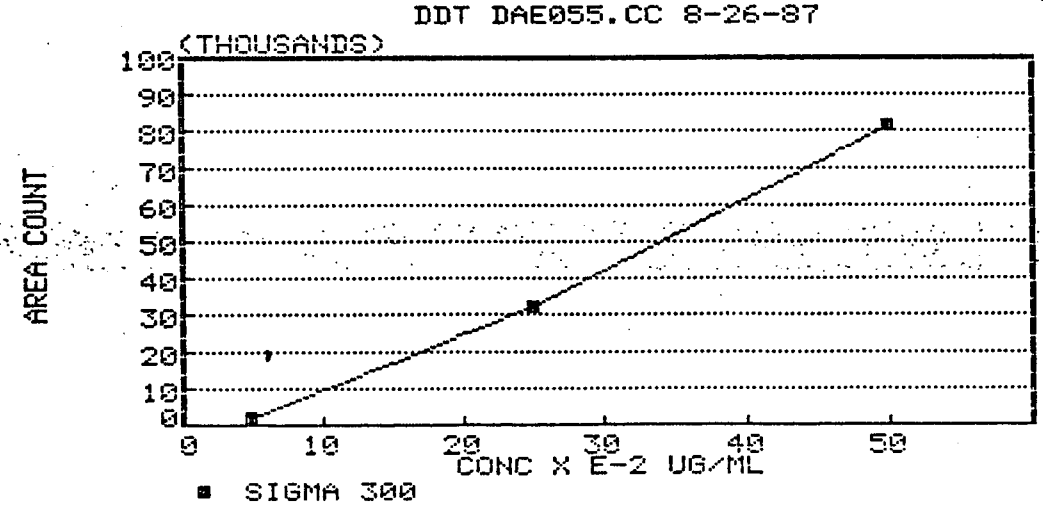
SIGMA 300

4	24456
20	146919
40	243976

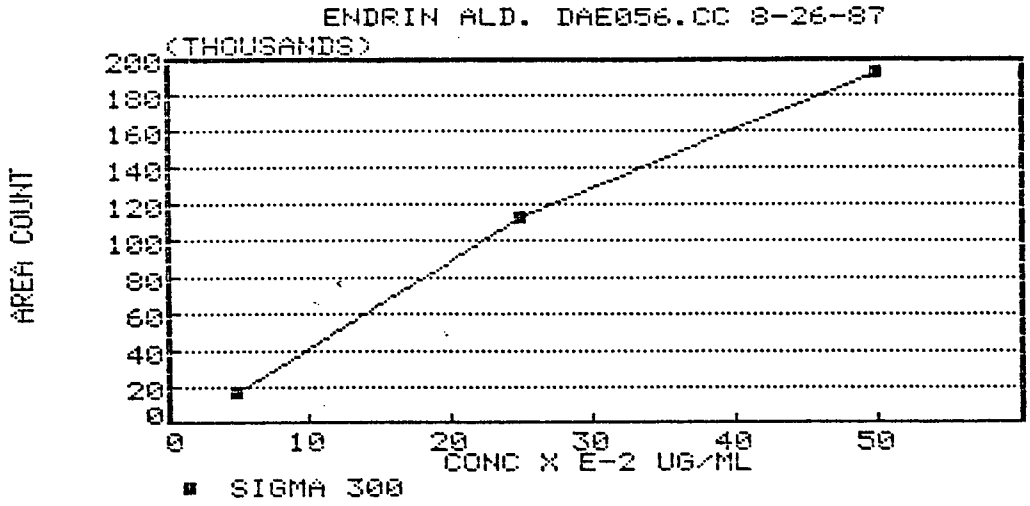


SIGMA 300

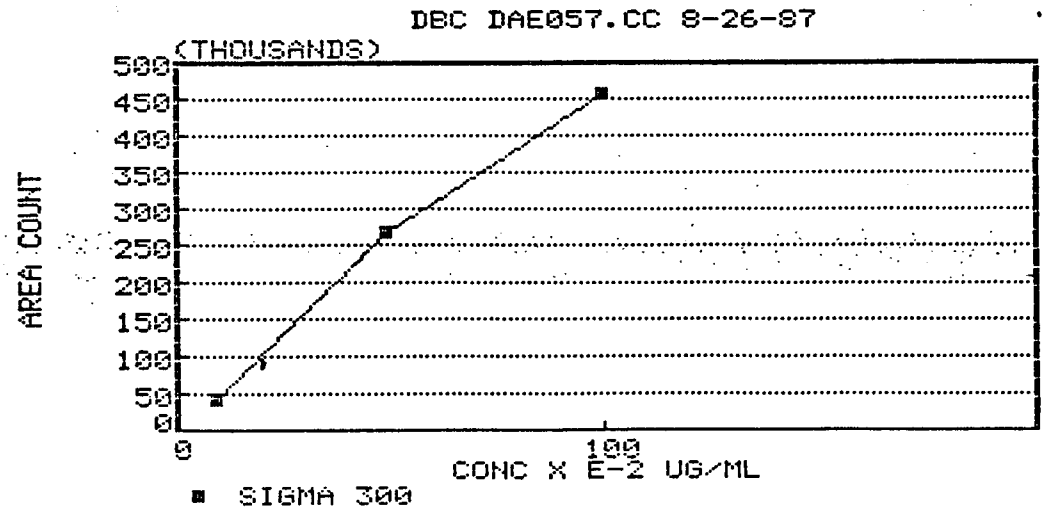
5	2180
25	32643
50	81545



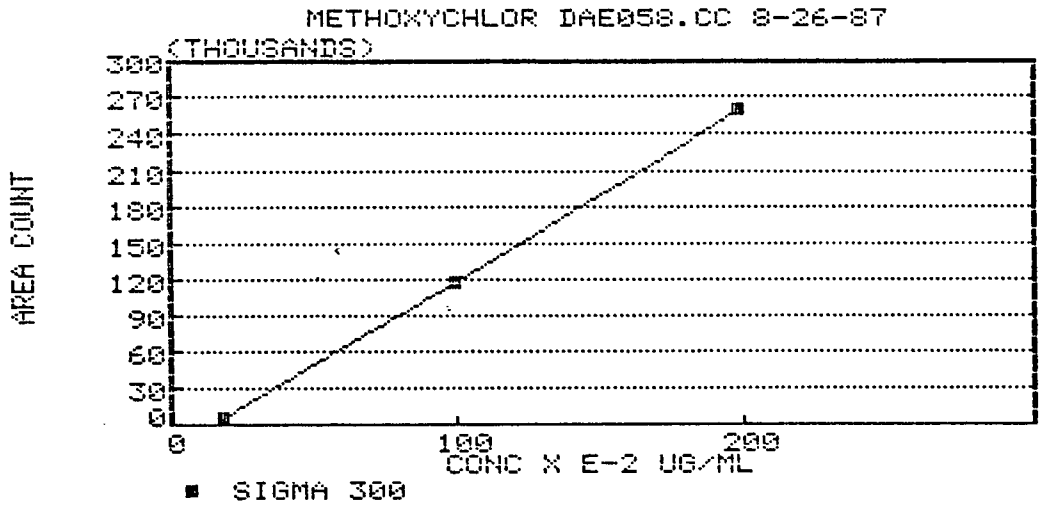
	SIGMA 300
5	17915
25	113058
50	193408



	SIGMA 300
10	43860
50	270437
100	460312

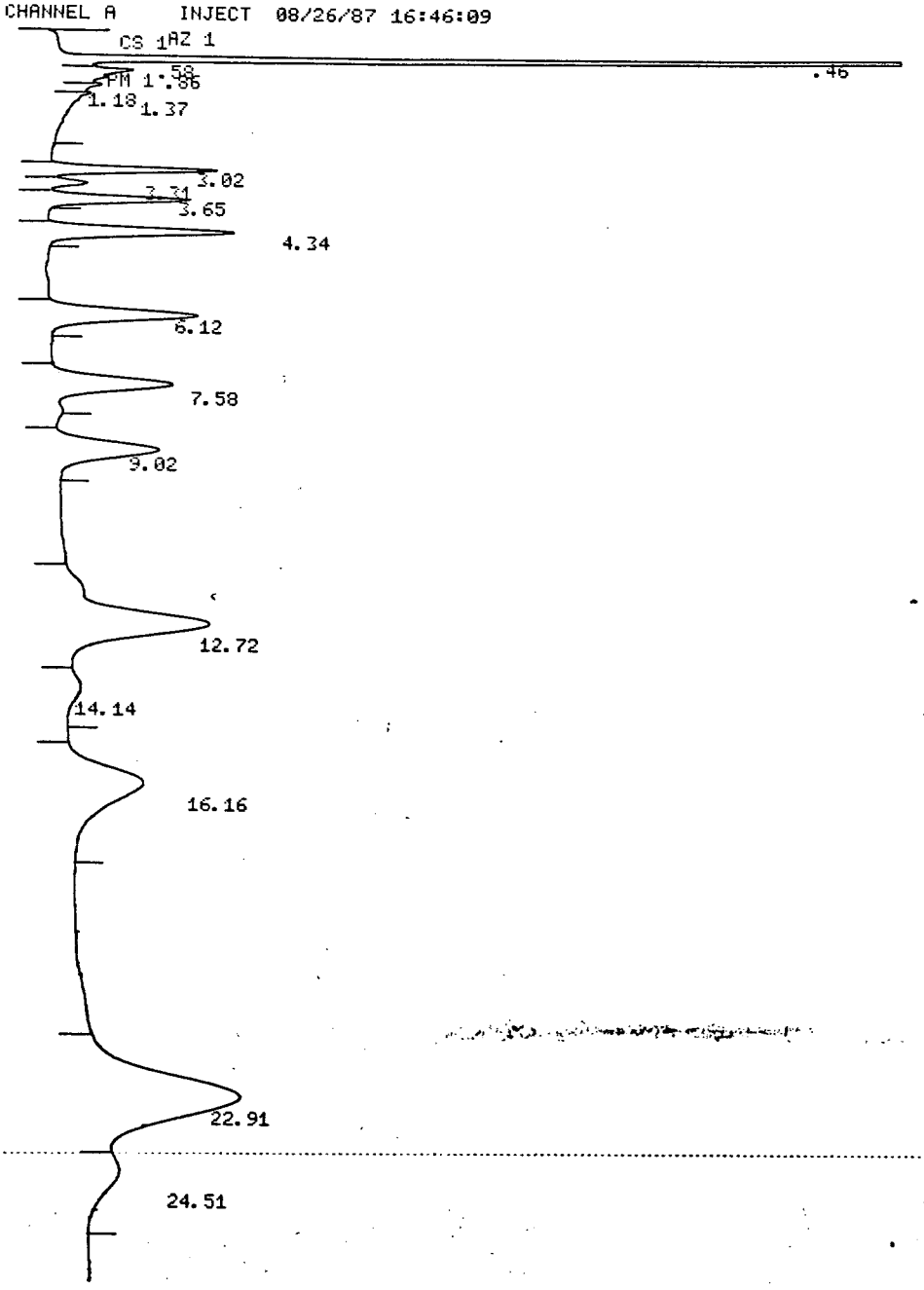


	SIGMA 300
20	7434
100	118982
200	259482



MIX A LO STD 1495-59B SIGMA300 8/26/87 AT= 2

CHANNEL A INJECT 08/26/87 16:46:09



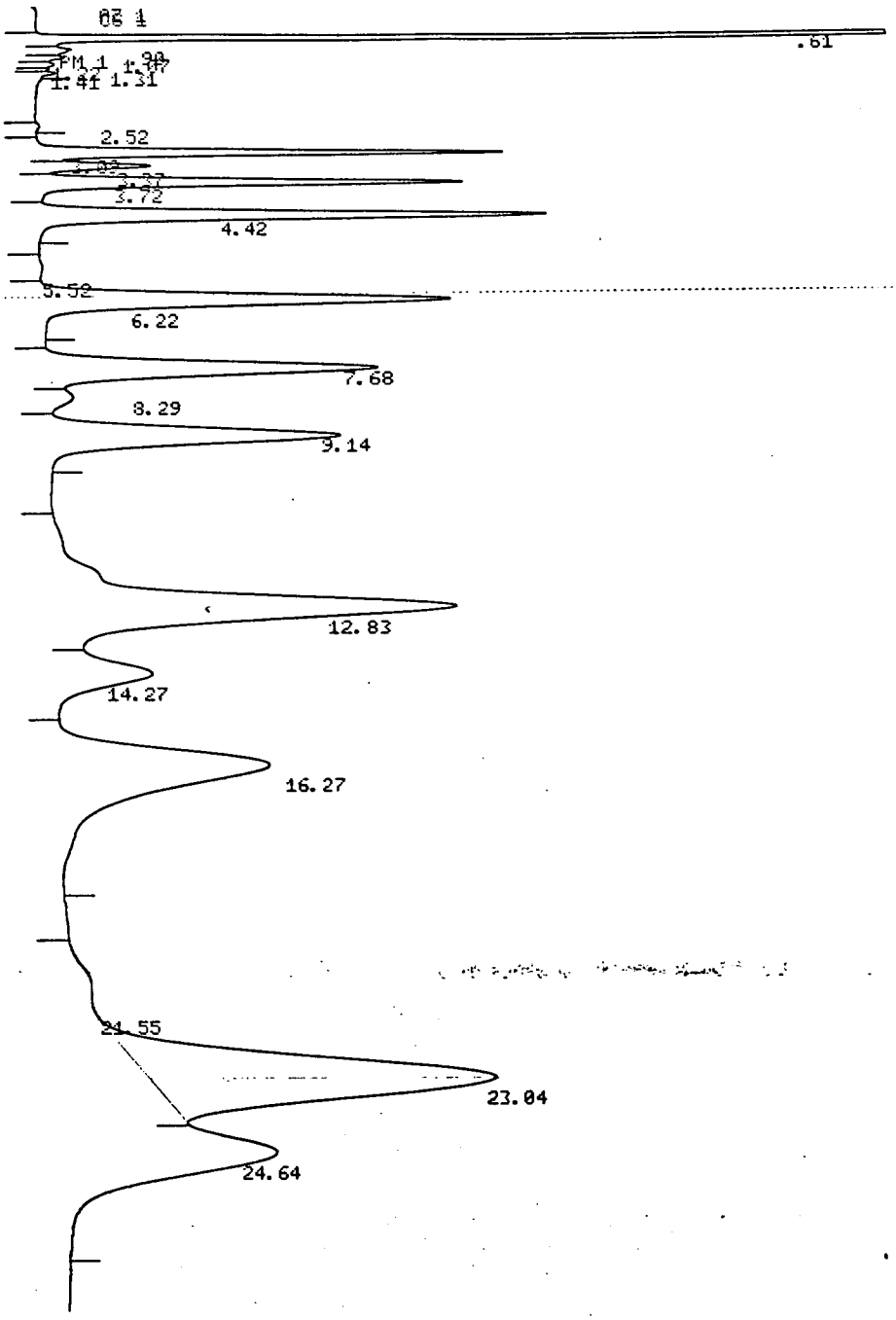
08/26/87 16:46:09 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 232 INDEX 232

PEAK#	AREA%	RT	AREA	BC
1	0.353	0.46	769	02
2	26.043	0.58	56657	02
3	2.448	0.86	5325	02
4	0.912	1.18	1984	02
5	1.766	1.37	3843	03
6	2.676	3.02	5822	02-
7	0.619	3.31	1347	02
8	2.682	3.65	5835	03-
9	4.321	4.34	9401	01-
10	4.767	6.12	10370	01-
11	4.581	7.58	9965	01-
12	4.775	9.02	10388	01-
13	11.242	12.72	24456	02-
14	1.002	14.14	2180	03-
15	8.235	16.16	17915	01-
16	20.161	22.91	43860	02-
17	3.417	24.51	7434	03-
TOTAL	100.		217551	

MIX A MED STD 1495-59A SIGMA 300 8/26/87 AT= 4

CHANNEL A INJECT 08/26/87 15:38:52



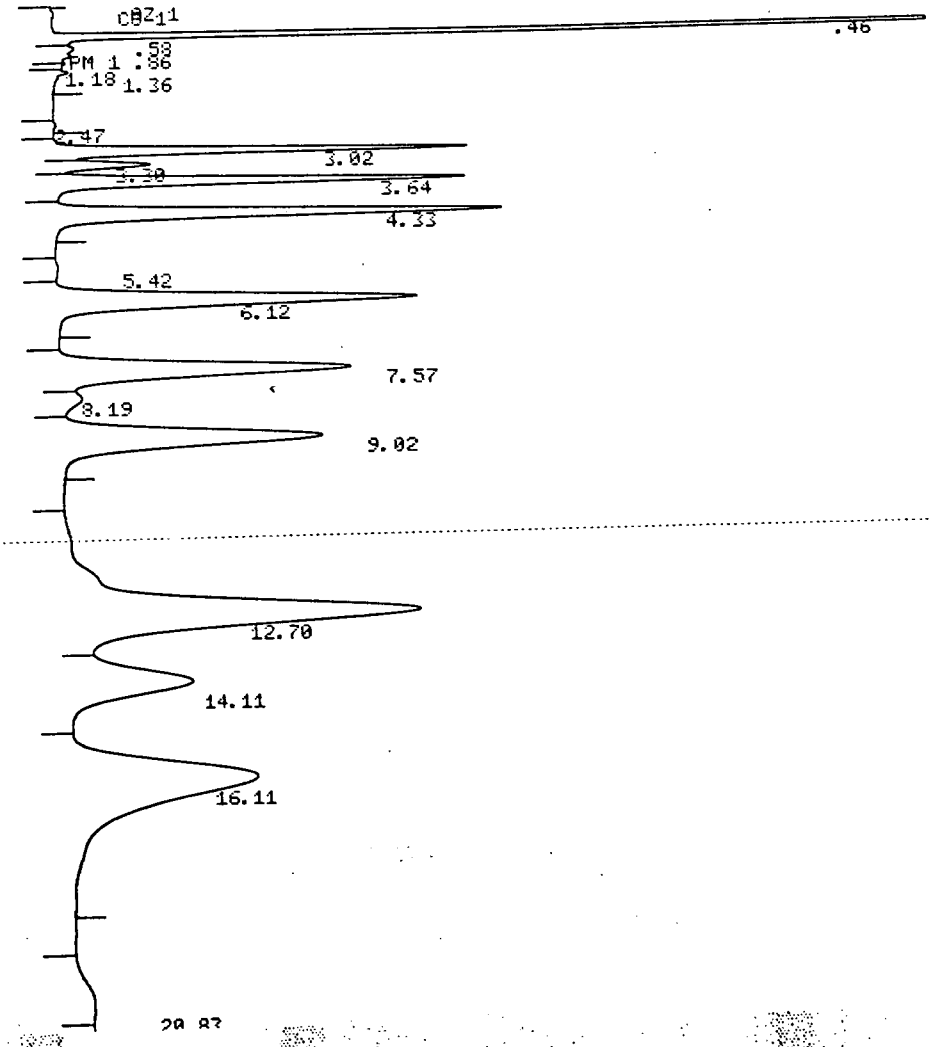
08/26/87 15:38:52 CH= "A" PS= 1.

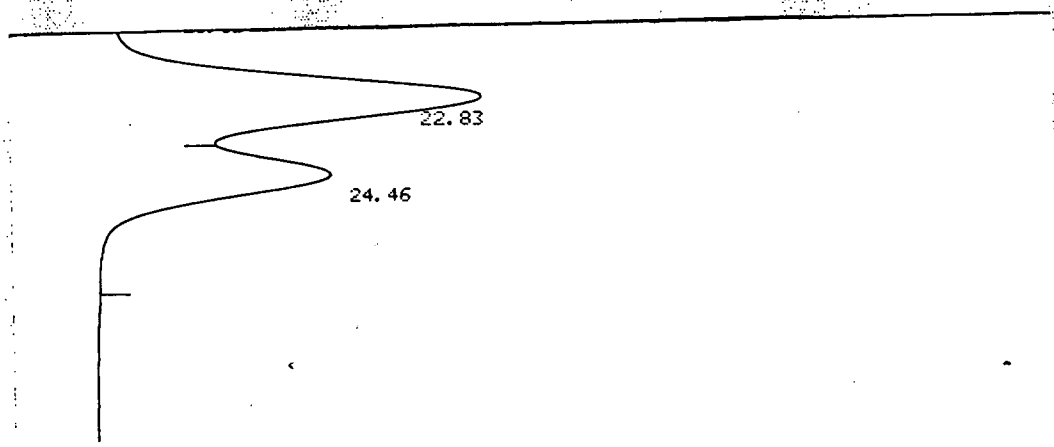
FILE 1. METHOD 0. RUN 230 INDEX 230

PEAK#	AREA%	RT	AREA BC
1	10.363	0.61	118400 02
2	0.218	0.9	2495 02
3	0.12	1.07	1366 02
4	0.07	1.22	804 02
5	0.03	1.31	342 02
6	0.048	1.41	551 03
7	0.016	2.52	180 01
8	2.989	3.09	34153 02
9	0.8	3.37	9140 02
10	3.362	3.72	38415 02
11	4.769	4.42	54485 03
12	0.022	5.52	255 02
13	5.286	6.22	60396 03
14	5.289	7.68	60421 02
15	0.402	8.29	4598 02
16	5.458	9.14	62361 03
17	12.86	12.83	146919 02
18	2.857	14.27	32643 02
19	9.896	16.27	113058 03
20	1.058	21.55	12084 02
21	23.671	23.04	270437 02
22	10.414	24.64	118982 03

MIX A HI STD 1495-583 SIGMA300 8/26/87 AT= 8

CHANNEL A INJECT 08/26/87 17:18:02



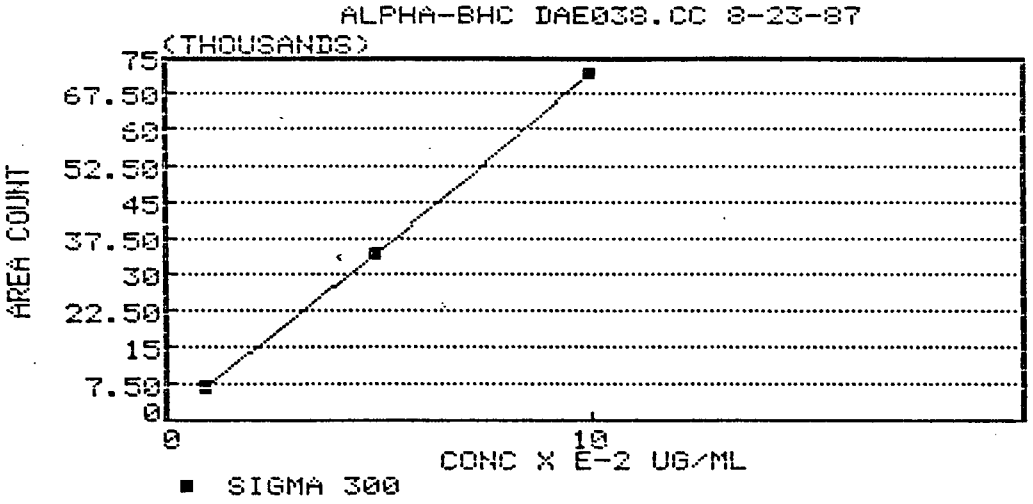


08/26/87 17:18:02 CH= "A" PS= 1.

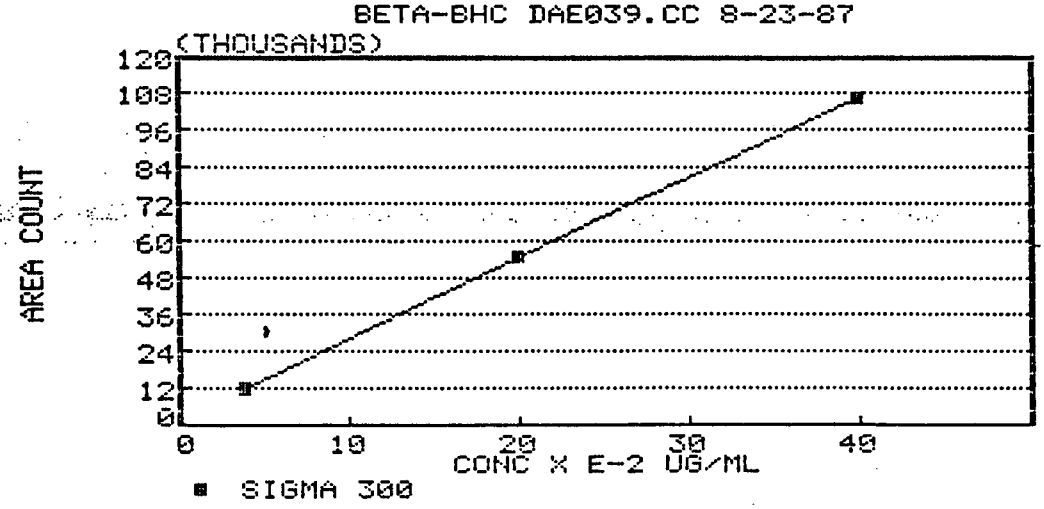
FILE 1. METHOD 0. RUN 233 INDEX 233

PEAK#	AREA%	RT	AREA BC
1	0.034	0.46	664 02
2	7.124	0.58	140205 02
3	0.317	0.86	6246 02
4	0.075	1.18	1484 02
5	0.123	1.36	2417 03
6	0.018	2.47	355 01
7	3.004	3.02	59114 02
8	0.778	3.3	15319 02
9	3.653	3.64	71890 02
10	4.721	4.33	92905 03
11	0.028	5.42	558 02
12	5.225	6.12	102830 03
13	5.253	7.57	103384 02
14	0.38	8.19	7478 02
15	5.474	9.02	107727 03
16	12.397	12.7	243976 02
17	4.144	14.11	81545 02
18	9.828	16.11	193408 03
19	0.849	20.83	16707 02
20	23.39	22.83	460312 02
21	13.185	24.46	259482 03
TOTAL	100.		1968006

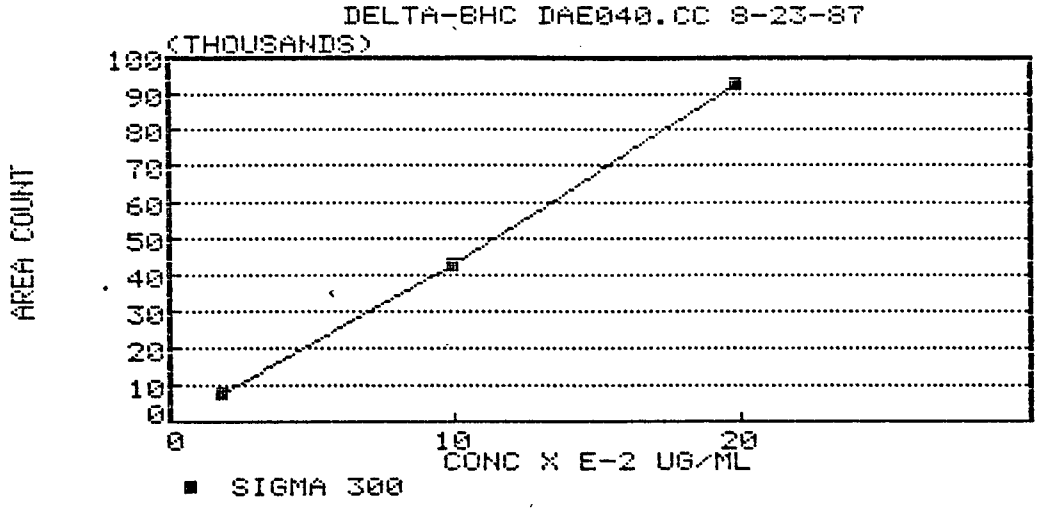
	SIGMA 300
1	7268
5	34598
10	71863



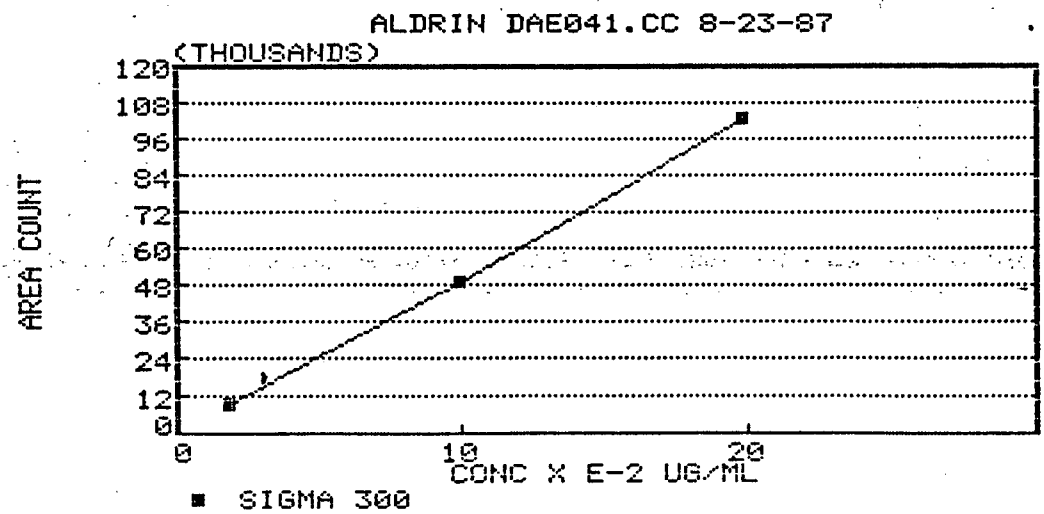
	SIGMA 300
4	12814
20	55373
40	106685



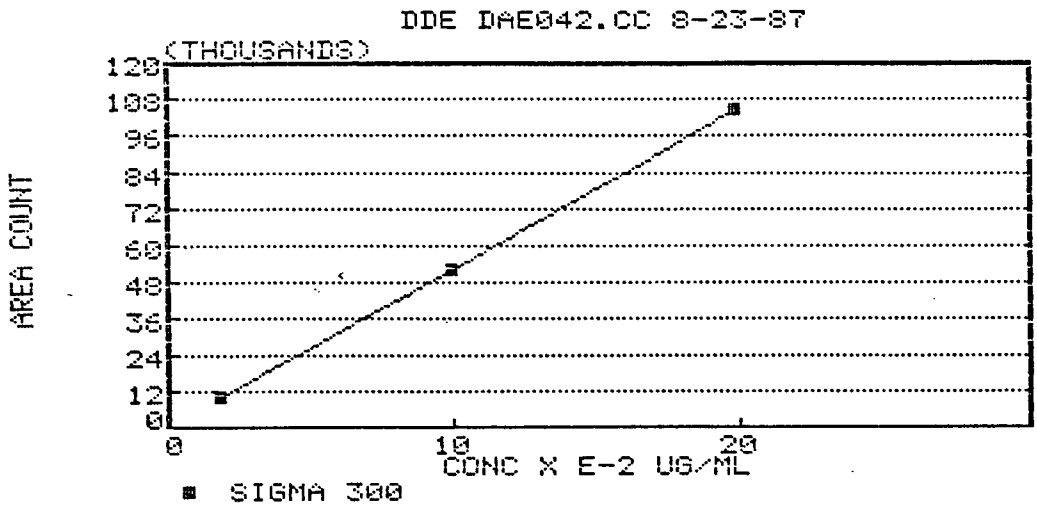
	SIGMA 300
2	8241
10	43274
20	93213



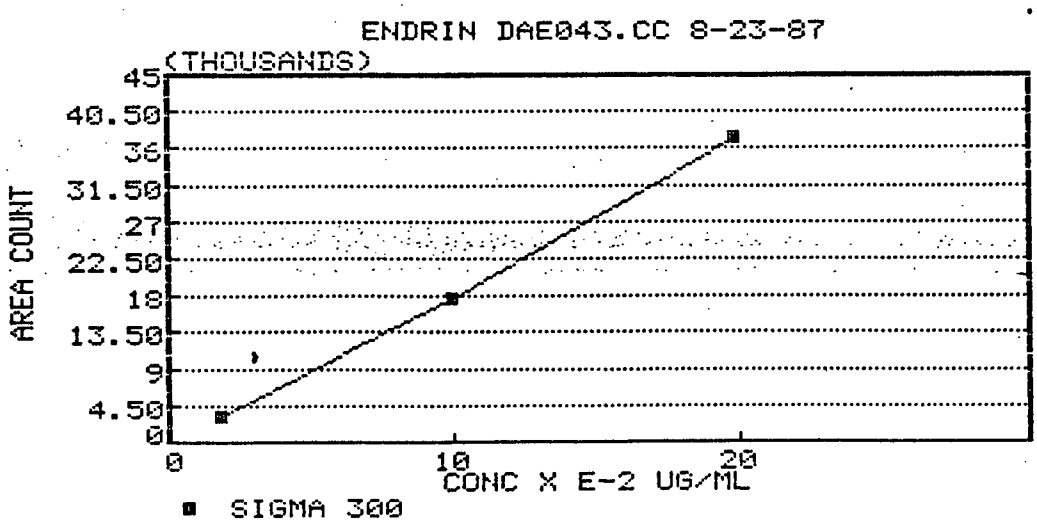
	SIGMA 300
2	9893
10	49654
20	103392



	SIGMA 300
2	10845
10	52869
20	105011

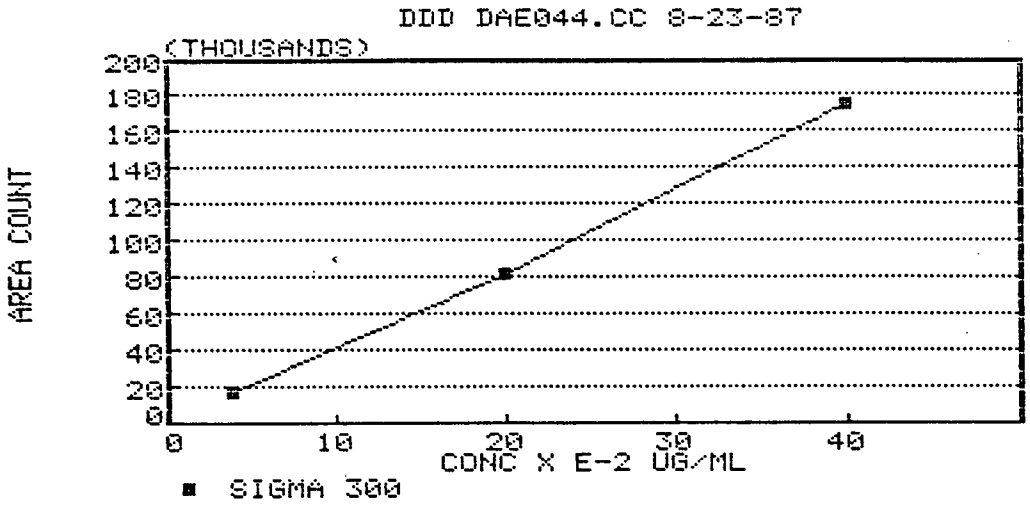


	SIGMA 300
2	3504
10	17783
20	37299



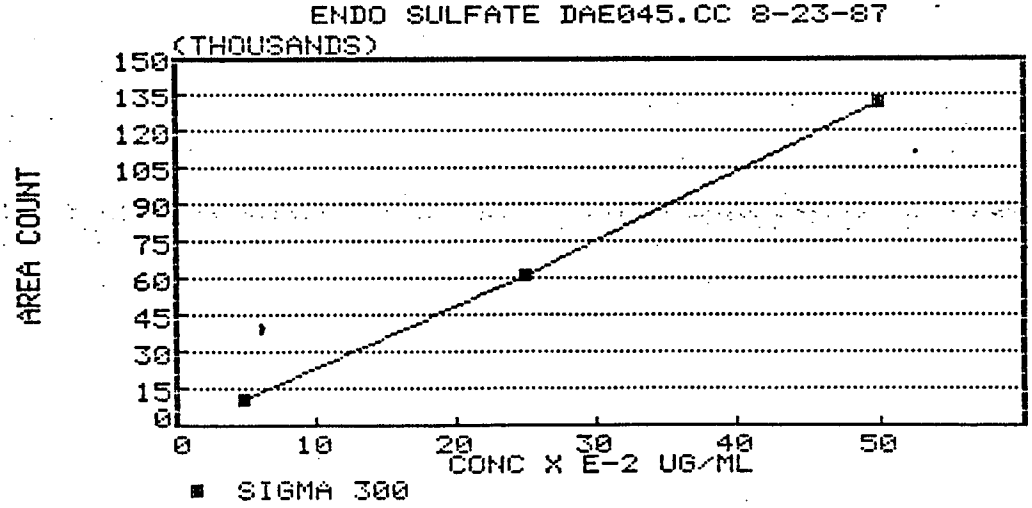
SIGMA 300

4	17417
20	82641
40	175097



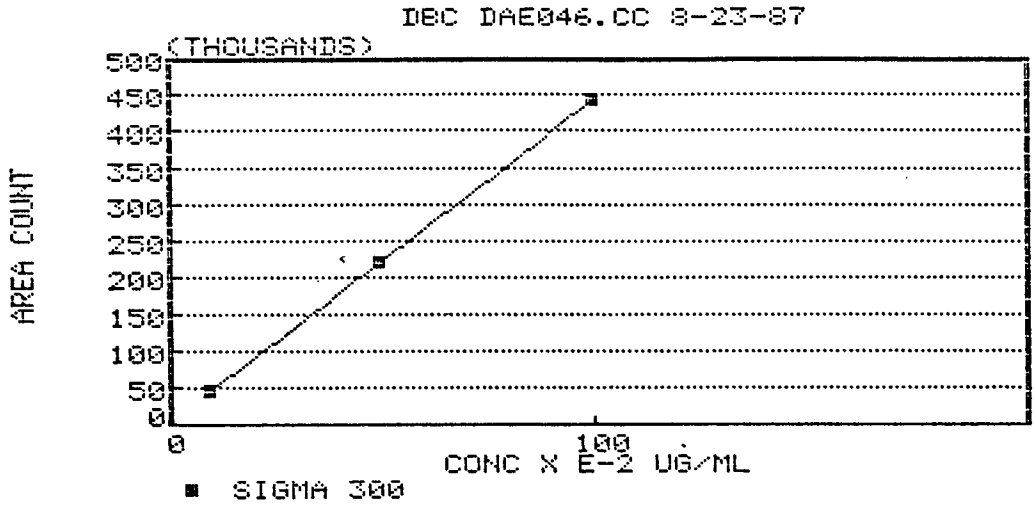
SIGMA 300

5	10814
25	62118
50	132073



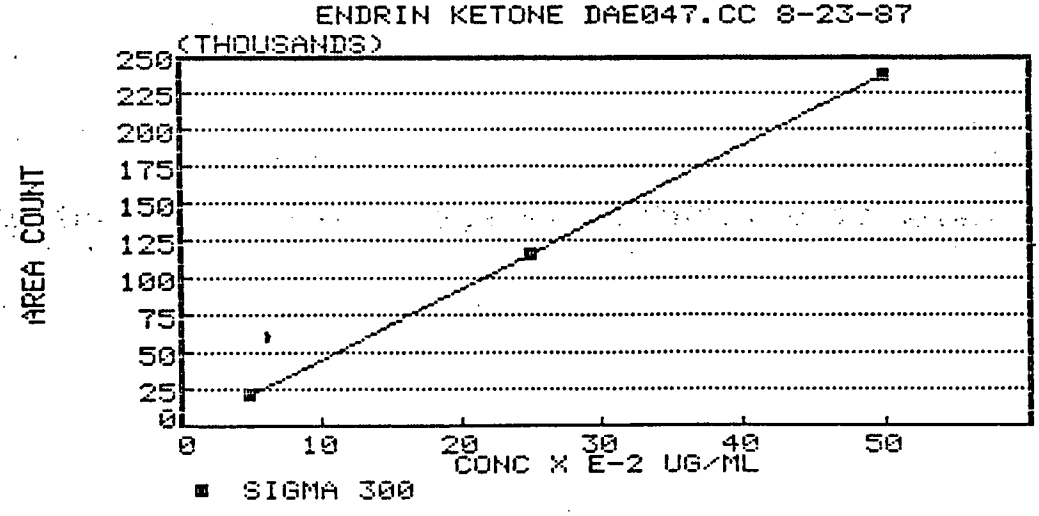
SIGMA 300

10	48606
50	222400
100	443537



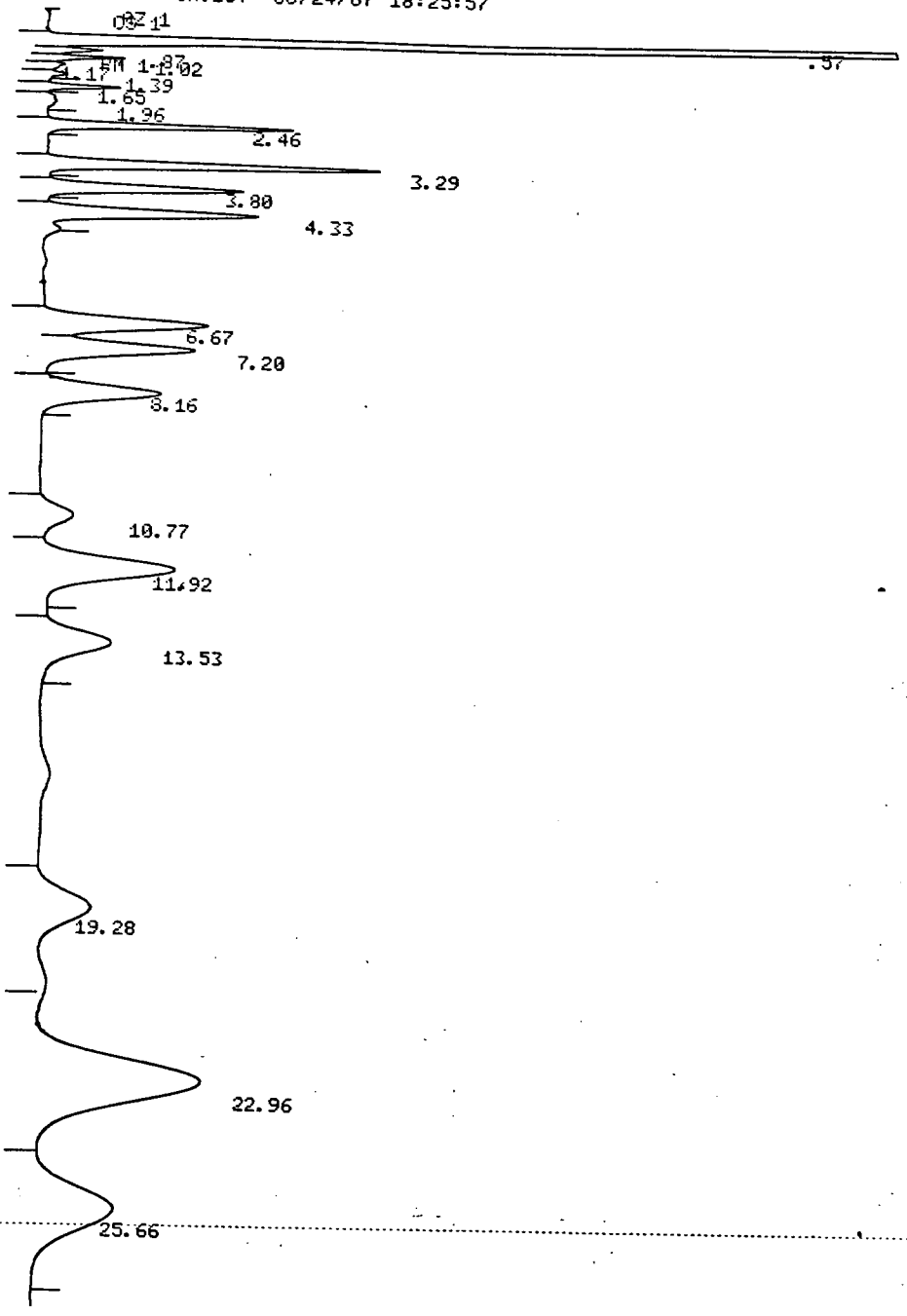
SIGMA 300

5	22879
25	116839
50	237971



MIX B LO STD 1495-59F SIGMA300 8/24/87 AT= 2

CHANNEL A INJECT 08/24/87 18:25:57



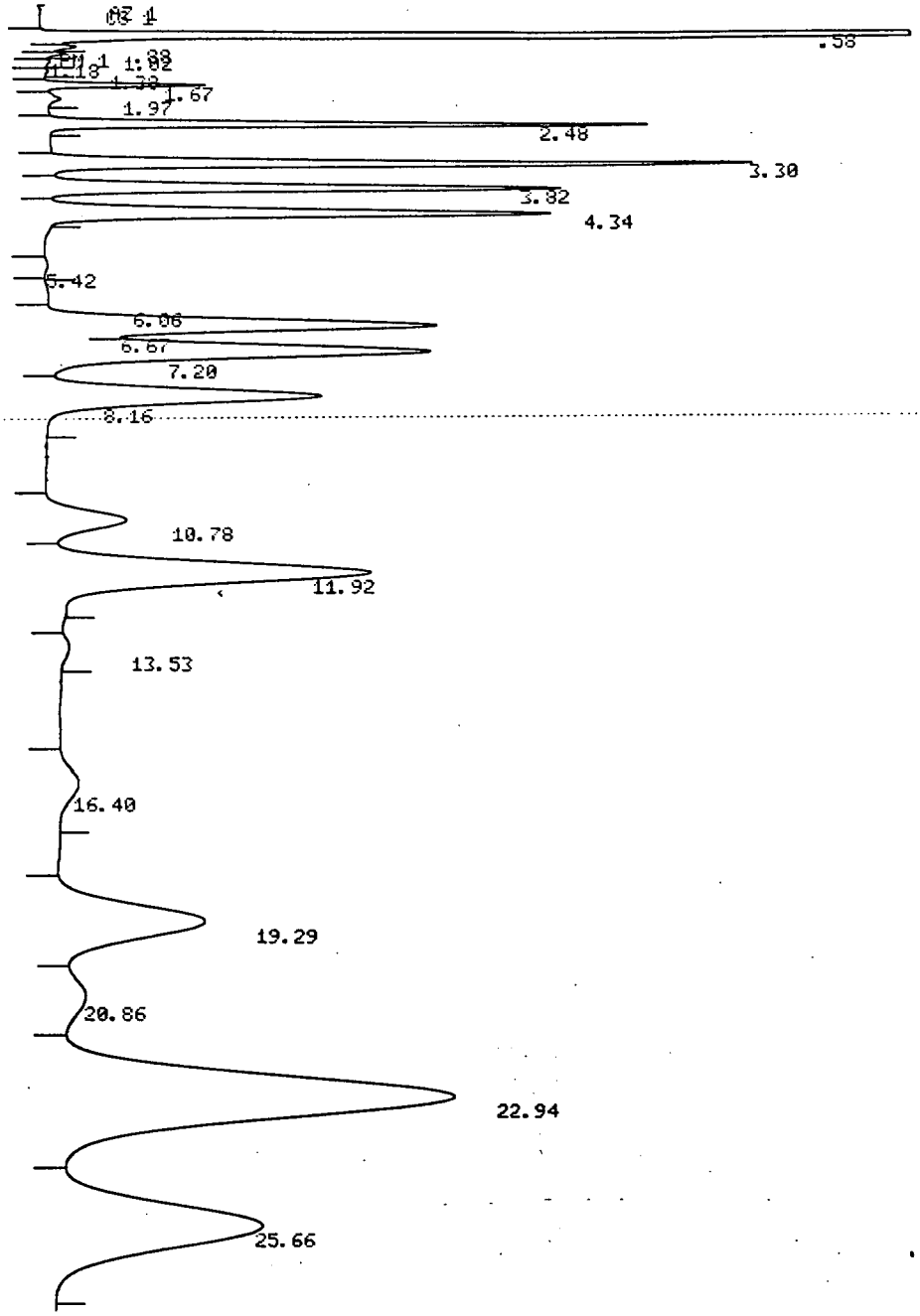
08/24/87 18:25:57 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 176 INDEX 176

PEAK#	AREA%	RT	AREA BC
1	60.667	0.57	294864 08
2	0.15	0.87	730 06
3	0.224	1.02	1089 06
4	0.042	1.17	204 06
5	0.06	1.39	294 07
6	0.316	1.65	1534 01
7	0.101	1.96	493 01
8	1.495	2.46	7268 01·
9	2.636	3.29	12814 01·
10	1.696	3.8	8241 01·
11	2.035	4.33	9893 01·
12	2.543	6.67	12360 02
13	2.561	7.2	12449 03
14	2.231	8.16	10845 01·
15	0.721	10.77	3504 02·
16	3.583	11.92	17417 03·
17	2.004	13.53	9739 01·
18	2.225	19.28	10814 02·
19	10.	22.96	48606 02'
20	4.707	25.66	22879 03'
TOTAL	100.		

MIX B MED STD 1495-59E SIGMA300 8/24/87 AT= 4

CHANNEL A INJECT 08/24/87 19:05:27



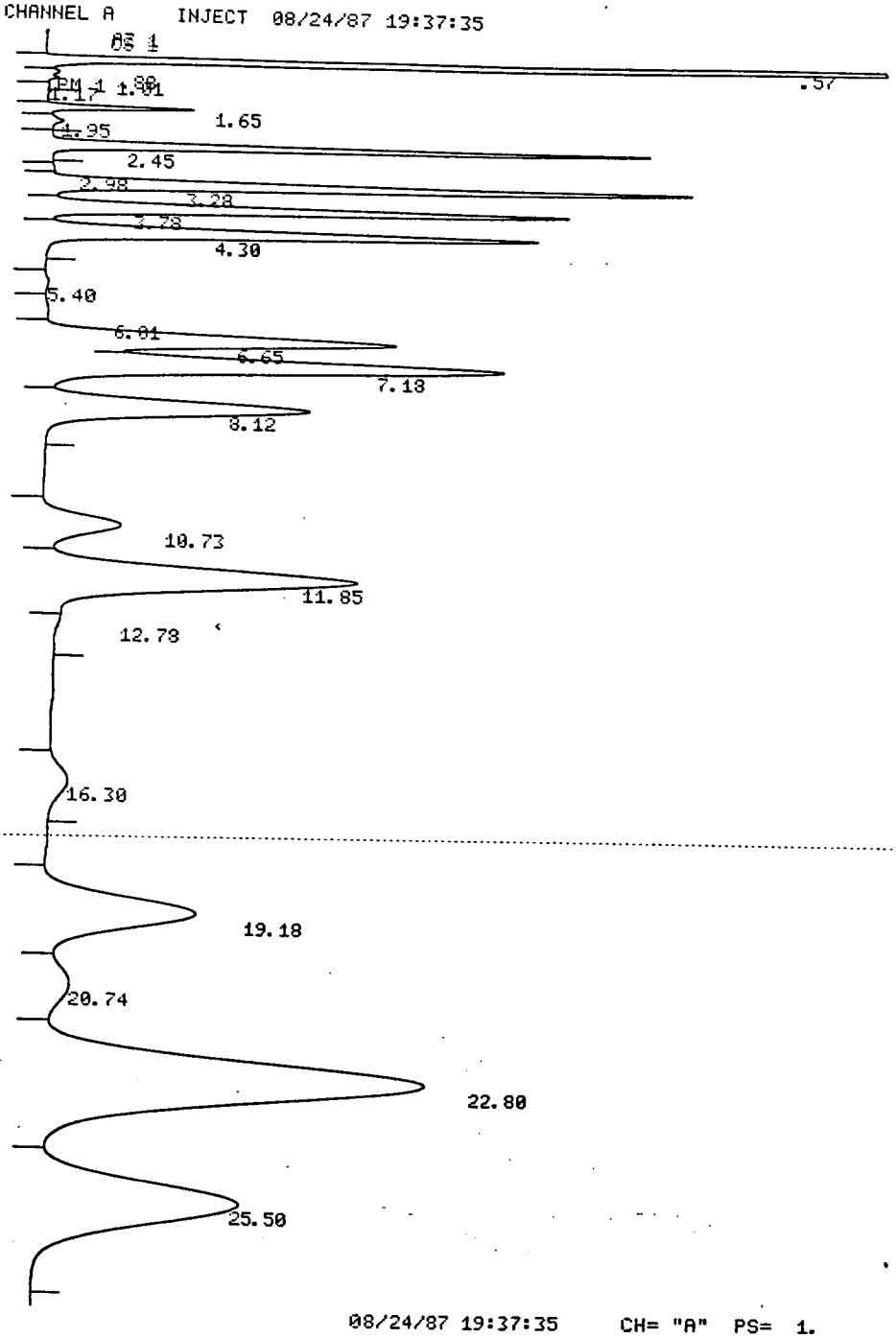
08/24/87 19:05:27 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 177 INDEX 177

PEAK#	AREA%	RT	AREA	BC
1	39.695	0.58	590073	08
2	0.041	0.88	603	05
3	0.029	1.02	437	05
4	0.013	1.18	195	05
5	0.006	1.38	86	01
6	0.487	1.67	7239	08
7	0.057	1.97	854	05
8	2.327	2.48	34598	01
9	3.725	3.3	55373	02
10	2.911	3.82	43274	02
11	3.34	4.34	49654	03
12	0.025	5.42	373	01
13	0.04	6.06	601	02
14	4.045	6.67	60127	02
15	4.396	7.2	65355	02
16	3.557	8.16	52869	03
17	1.196	10.78	17783	02
18	5.559	11.92	82641	03
19	0.098	13.53	1460	01
20	0.459	16.4	6821	01
21	4.179	19.29	62118	02
22	0.993	20.86	14757	02
23	14.961	22.94	222400	02
24	7.86	25.66	116839	03

MIX B HI STD 1495-59D SIGMA300 8/24/87 AT= 8

CHANNEL A INJECT 08/24/87 19:37:35



08/24/87 19:37:35 CH= "A" PS= 1.

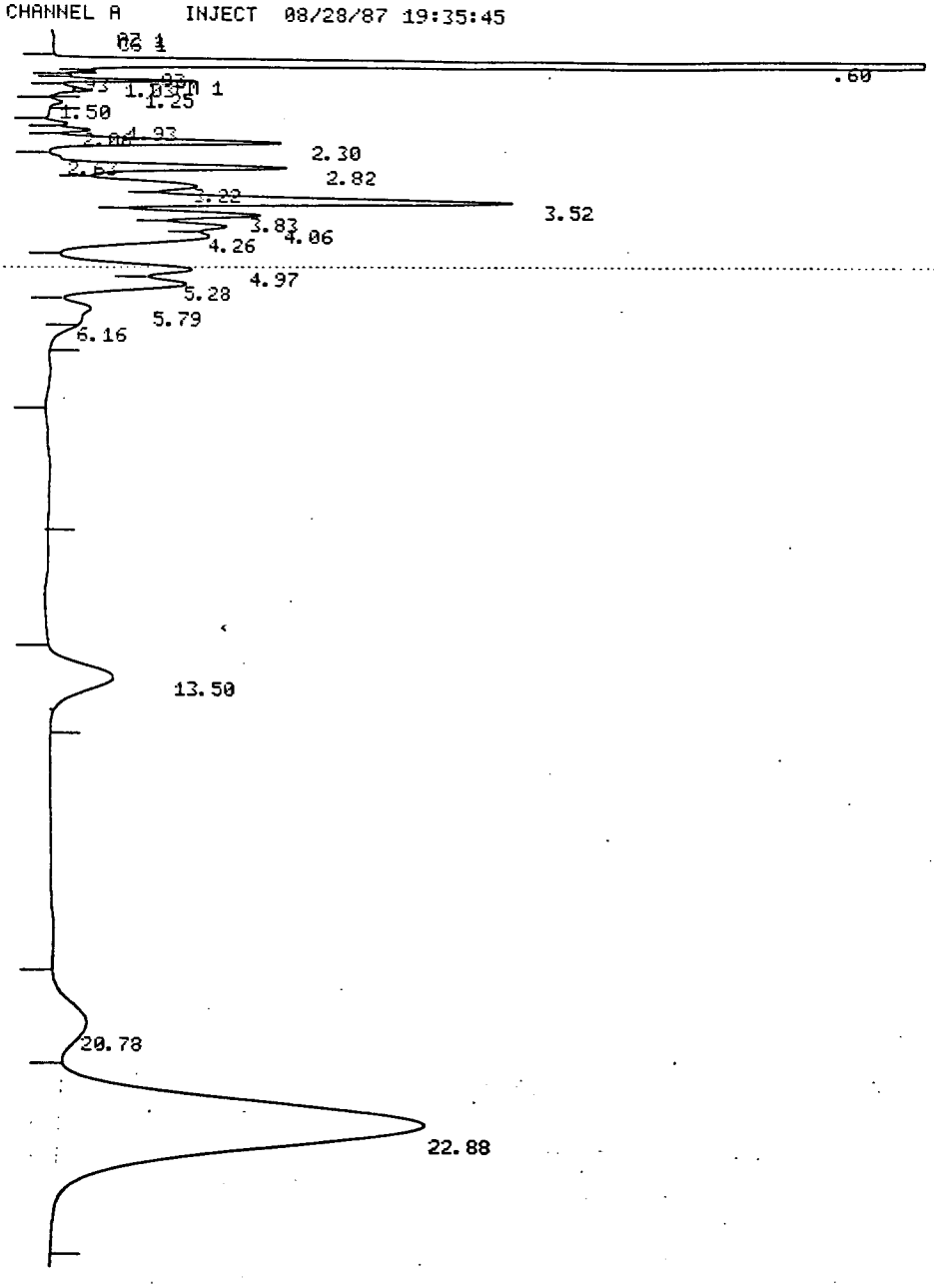
FILE 1. METHOD 0. RUN 178 INDEX 178

PEAK#	AREA%	RT	AREA BC
1	17.122	0.57	381505 08
2	0.028	0.88	629 06
3	0.025	1.01	552 06
4	0.006	1.17	133 07
5	0.59	1.65	13144 02
6	0.084	1.95	1863 03
7	3.225	2.45	71863 01
8	0.01	2.98	218 02
9	4.788	3.28	106685 02
10	4.183	3.78	93213 02
11	4.64	4.3	103392 03
12	0.037	5.4	830 02
13	0.054	6.01	1207 02
14	5.026	6.65	111986 02
15	7.33	7.18	163322 02
16	4.713	8.12	105011 03
17	1.674	10.73	37299 02
18	7.858	11.85	175097 02
19	0.16	12.78	3568 03
20	0.601	16.3	13394 01
21	5.927	19.18	132073 02
22	1.334	20.74	29719 02
23	19.906	22.8	443537 02
24	10.68	25.5	237971 03

GC DAILY STANDARD

1016 MED STD 1472-205R SIGMA300 8/28/87 AT= 4

CHANNEL A INJECT 08/28/87 19:35:45



08/28/87 19:35:45 CH= "A" PS= 1.

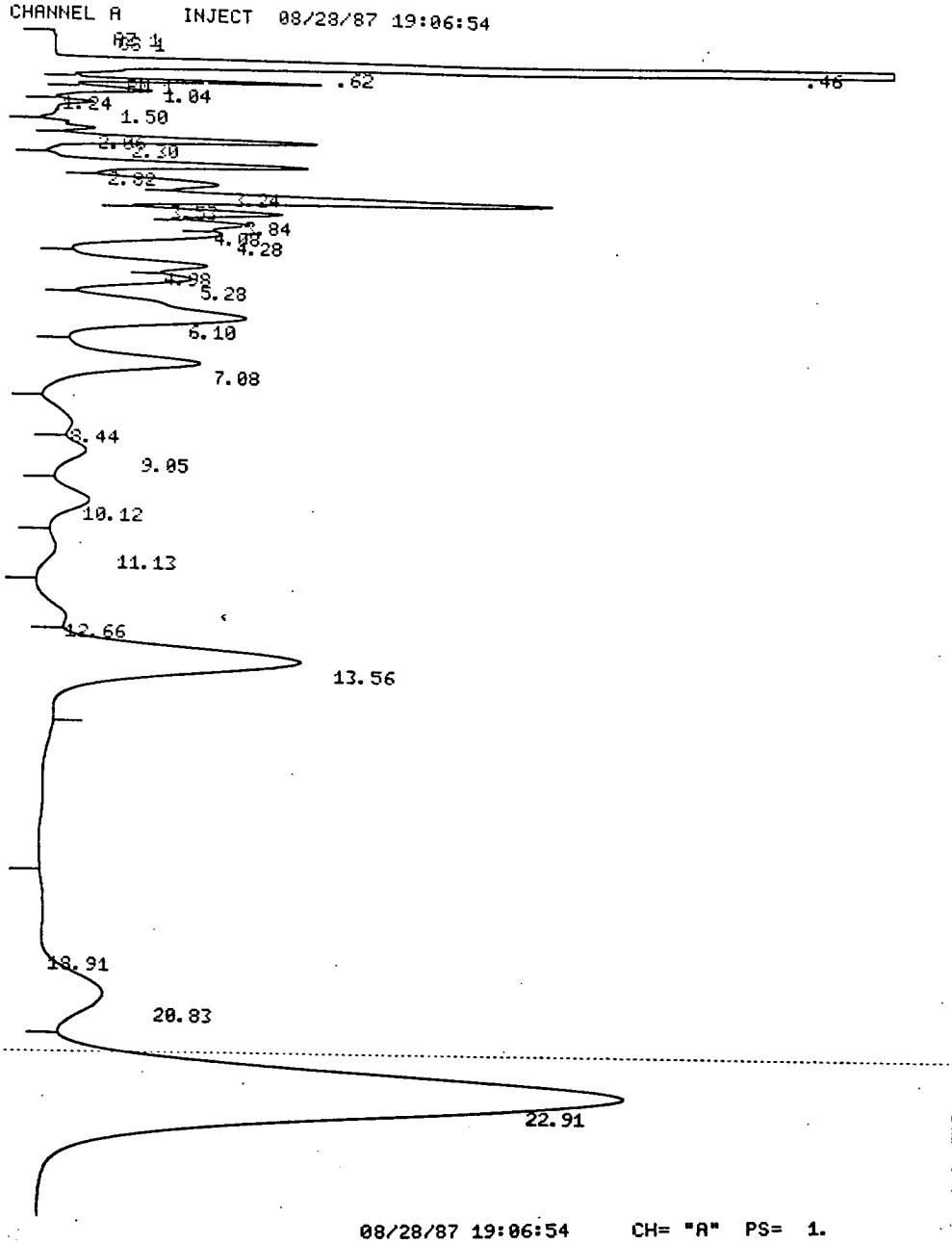
FILE 1. METHOD 0. RUN 289 INDEX 289

PEAK#	AREA%	RT	AREA	BC
1	67.442	0.6	1024357	08
2	0.014	0.83	215	05
3	0.014	0.93	209	06
4	0.272	1.03	4135	06
5	0.147	1.25	2228	07
6	0.041	1.5	618	05
7	0.062	1.93	947	02
8	0.154	2.06	2338	02
9	1.102	2.3	16740	02
10	0.046	2.63	696	02
11	1.337	2.82	20314	02
12	1.271	3.22	19309	02
13	3.057	3.52	46429	02
14	1.409	3.83	21396	02
15	1.209	4.06	18365	02
16	1.562	4.26	23727	02
17	1.309	4.97	19886	02
18	1.364	5.28	20716	02
19	0.613	5.79	9306	02
20	0.168	6.16	2547	03
21	1.42	13.5	21562	01
22	1.186	20.78	18014	02
23	14.802	22.88	224824	03
TOTAL	100.		1518878	

542

1242 MED STD 1472-2050 2 SIGMA300 8/28/87 BAT= 4

CHANNEL A INJECT 08/28/87 19:06:54



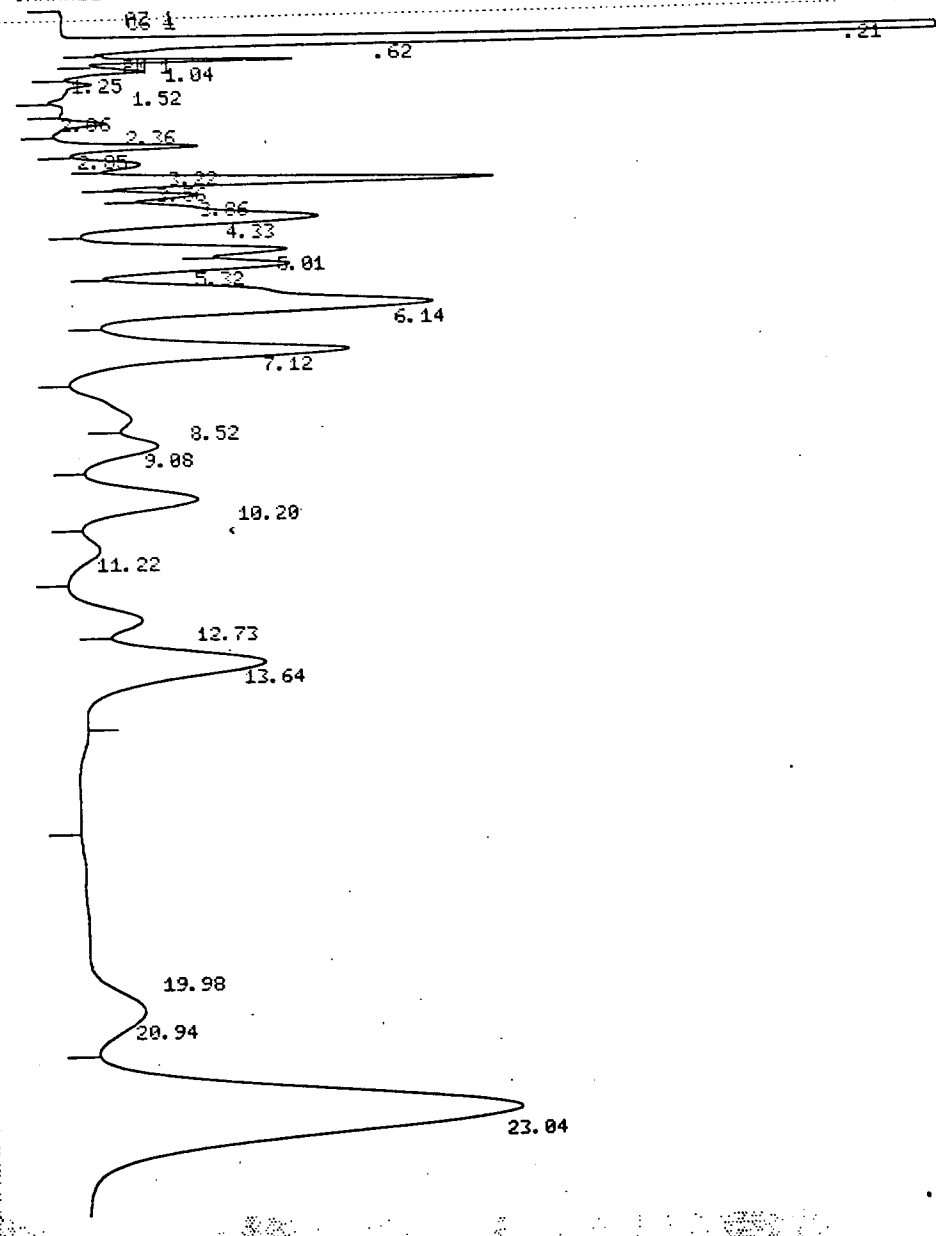
08/28/87 19:06:54 CH= "A" PS= 1.

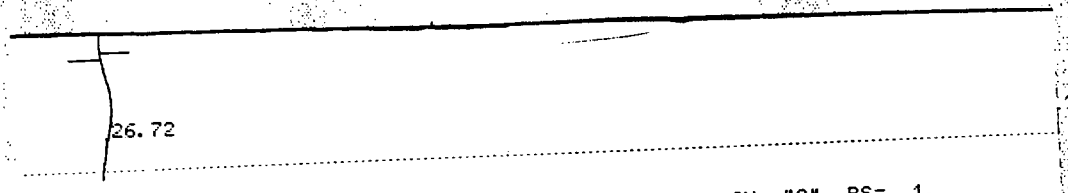
FILE 1. METHOD 0. RUN 288 INDEX 288

PEAK#	AREA%	RT	AREA	BC
1	0.037	0.46	902	02
2	61.122	0.62	1476808	02
3	0.457	1.04	11051	02
4	0.328	1.24	7914	02
5	0.192	1.5	4651	02
6	0.185	2.06	4463	02
7	0.93	2.3	22477	02
8	1.044	2.82	25219	02
9	0.966	3.24	23339	02
10	2.262	3.53	54655	02
11	1.082	3.84	26132	02
12	1.	4.08	24151	02
13	1.112	4.28	26871	02
14	1.13	4.98	27294	02
15	1.004	5.28	24247	02
16	2.505	6.1	60529	02
17	1.685	7.08	40712	02
18	0.481	8.44	11632	02
19	0.657	9.05	15866	02
20	0.752	10.12	18166	02
21	0.287	11.13	6926	02
22	0.28	12.66	6755	02
23	3.899	13.56	94196	03
24	0.104	18.91	2520	02
25	1.468	20.83	35458	02
26	15.034	22.91	363248	03
TOTAL	100.		2416182	

A1248 MED STD 1472-205U SIGMA 300 8/28/87 AT= 4

CHANNEL A INJECT 08/28/87 13:55:56

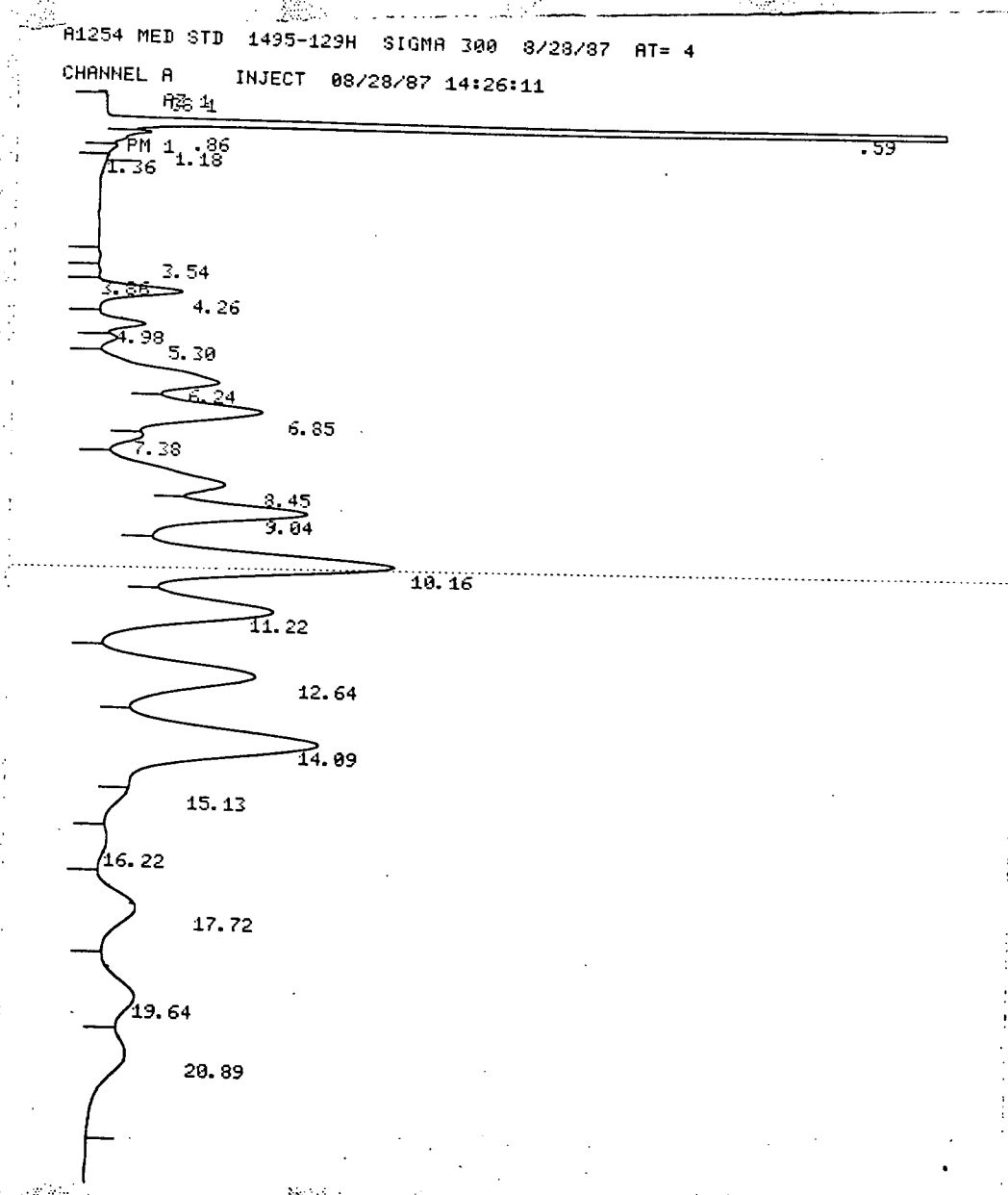


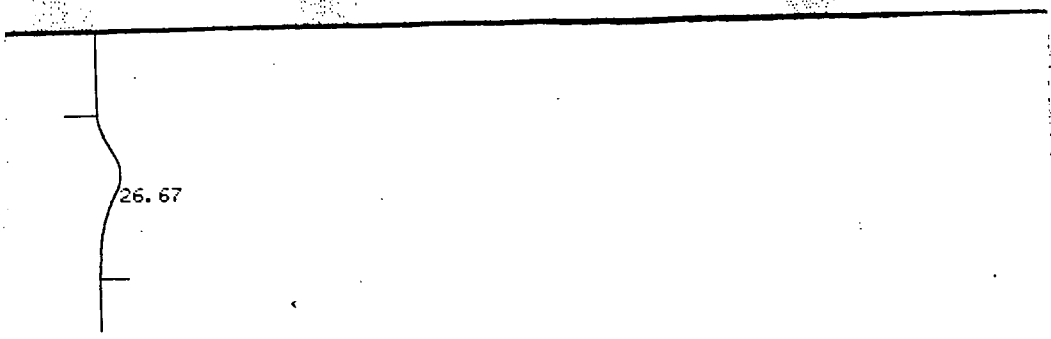


08/28/87 13:55:56 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 278 INDEX 278

PEAK#	AREA%	RT	AREA BC
1	0.039	0.21	888 02
2	61.015	0.62	1387180 02
3	0.479	1.04	10892 02
4	0.306	1.25	6950 02
5	0.191	1.52	4345 02
6	0.073	2.06	1649 02
7	0.22	2.36	4994 02
8	0.528	2.85	12004 02
9	0.468	3.22	10634 02
10	1.858	3.56	42251 02
11	0.609	3.86	13848 02
12	2.417	4.33	54942 02
13	1.451	5.01	32983 02
14	1.522	5.32	34594 02
15	4.499	6.14	102293 02
16	2.986	7.12	67881 02
17	1.053	8.52	23951 02
18	1.17	9.08	26611 02
19	1.757	10.2	39951 02
20	0.467	11.22	10624 02
21	0.886	12.73	20136 02
22	2.957	13.64	67238 03
23	0.283	19.98	6435 02
24	1.415	20.94	32161 02
25	11.064	23.04	251548 03
26	0.286	26.72	6511 01
TOTAL	100.		2273494


A1254 MED STD 1495-129H SIGMA 300 8/28/87 AT= 4
CHANNEL A INJECT 08/28/87 14:26:11
PM 1
.86
1.18
1.36
.59
3.54
3.86
4.26
4.98
5.30
6.24
6.85
7.38
8.45
9.04
10.16
11.22
12.64
14.09
15.13
16.22
17.72
19.64
20.89



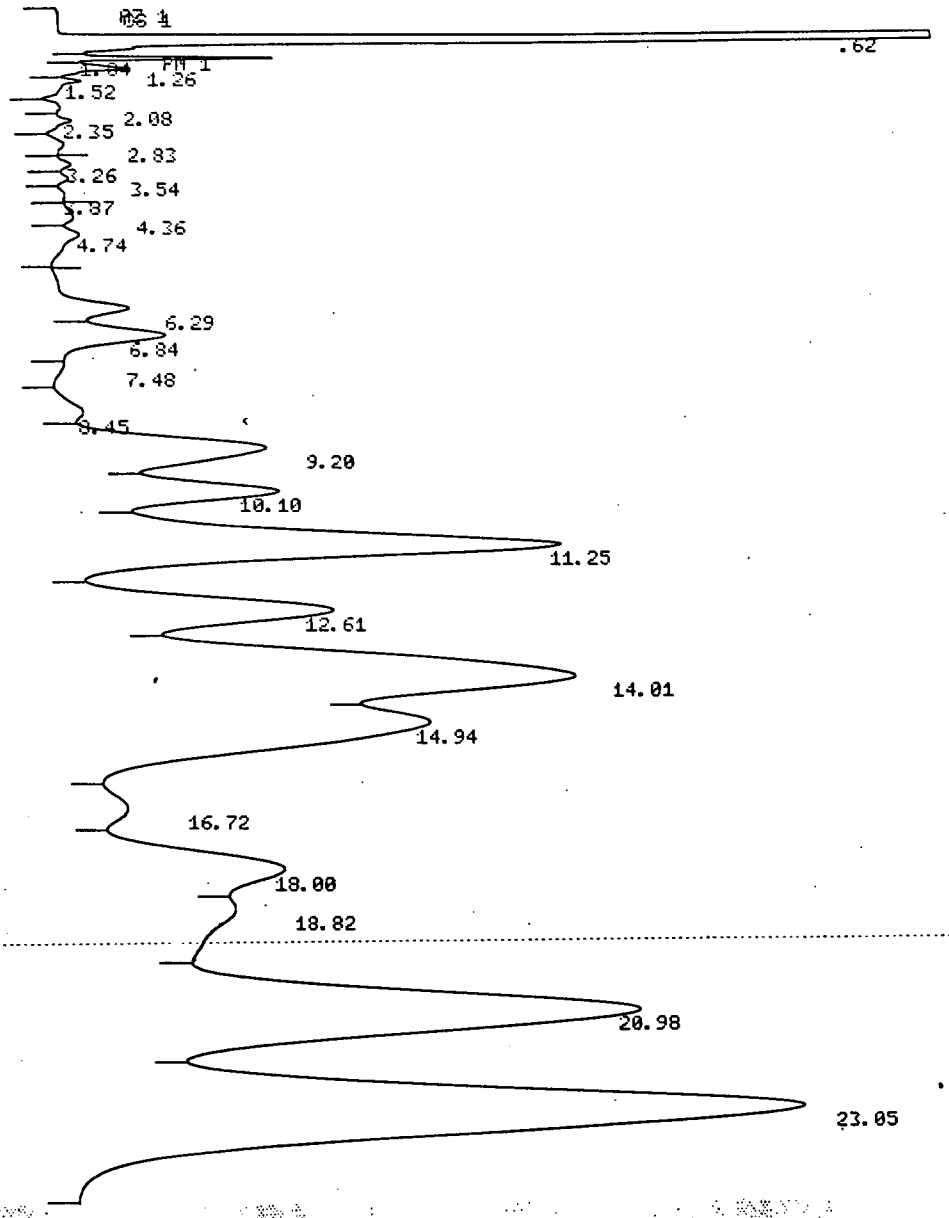
08/28/87 14:26:11 CH= "A" PS= 1.

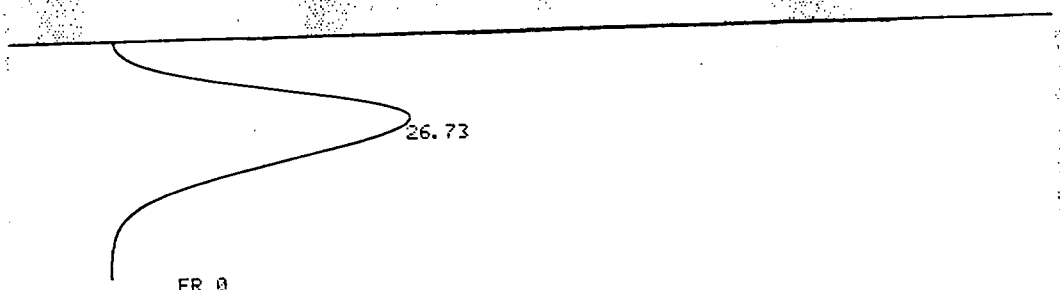
FILE 1. METHOD 0. RUN 279 INDEX 279

PEAK#	AREA%	RT	AREA BC
1	31.796	0.59	299624 02
2	0.424	0.86	3998 02
3	0.086	1.18	806 02
4	0.01	1.36	93 03
5	0.018	3.54	174 02
6	0.019	3.86	181 02
7	1.114	4.26	10495 02
8	0.646	4.98	6083 02
9	0.252	5.3	2379 02
10	3.549	6.24	33441 02
11	4.759	6.85	44846 02
12	0.76	7.38	7166 02
13	4.361	8.45	41091 02
14	6.451	9.04	60791 02
15	10.27	10.16	96778 02
16	6.66	11.22	62760 02
17	6.587	12.64	62068 02
18	10.848	14.09	102224 02
19	1.055	15.13	9937 02
20	0.806	16.22	7595 02
21	2.61	17.72	24593 02
22	2.866	19.64	27003 02
23	2.431	20.89	22906 03
24	1.624	26.67	15301 01
TOTAL	100.		942333

A1260 MED STD 1472-205I ATT SIGMA 300 8/28/87 AT= 4

CHANNEL A INJECT 08/28/87 14:57:18





ER 0

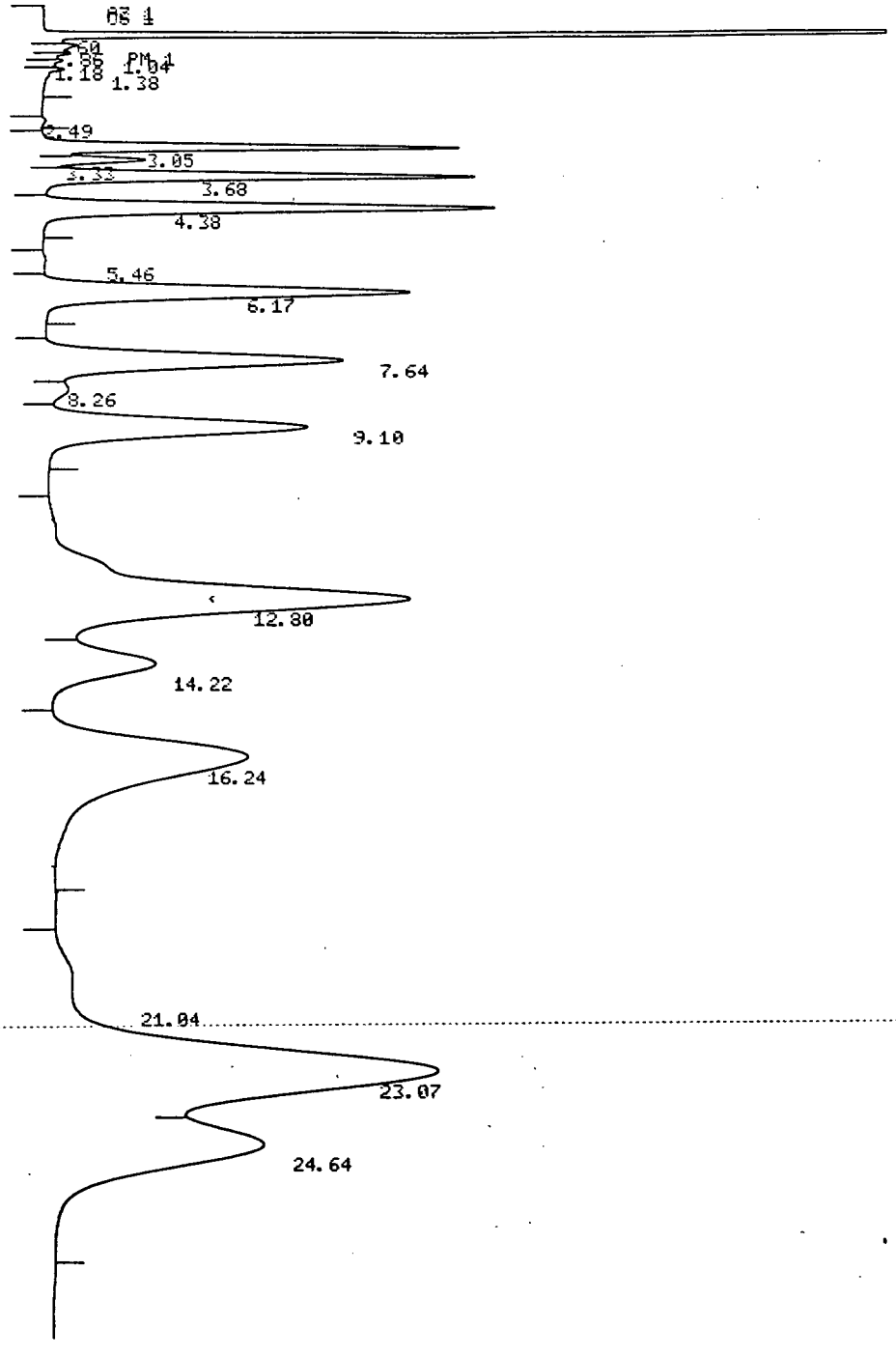
08/28/87 14:57:18 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 280 INDEX 280

PEAK#	AREA%	RT	AREA BC
1	40.189	0.62	1511482 08
2	0.151	1.04	5686 06
3	0.093	1.26	3493 06
4	0.056	1.52	2113 06
5	0.052	2.08	1972 06
6	0.079	2.35	2987 06
7	0.035	2.83	1306 07
8	0.029	3.26	1082 02
9	0.025	3.54	947 02
10	0.01	3.87	362 03
11	0.046	4.36	1717 02
12	0.096	4.74	3627 03
13	0.375	6.29	14087 02
14	0.595	6.84	22387 02
15	0.042	7.48	1597 02
16	0.169	8.45	6363 02
17	1.876	9.2	70548 02
18	1.648	10.1	61967 02
19	4.619	11.25	173712 02
20	2.523	12.61	94906 02
21	7.185	14.01	270214 02
22	5.042	14.94	189609 02
23	0.727	16.72	27356 02
24	2.909	18.	109393 02
25	2.871	18.82	107975 02
26	9.329	20.98	350870 02
27	11.895	23.05	447382 02
28	7.334	26.73	275815 03
TOTAL	100.		3760955

MIX A MED STD 1495-59A SIGMA300 8/28/87 AT= 4

CHANNEL A INJECT 08/28/87 16:36:43



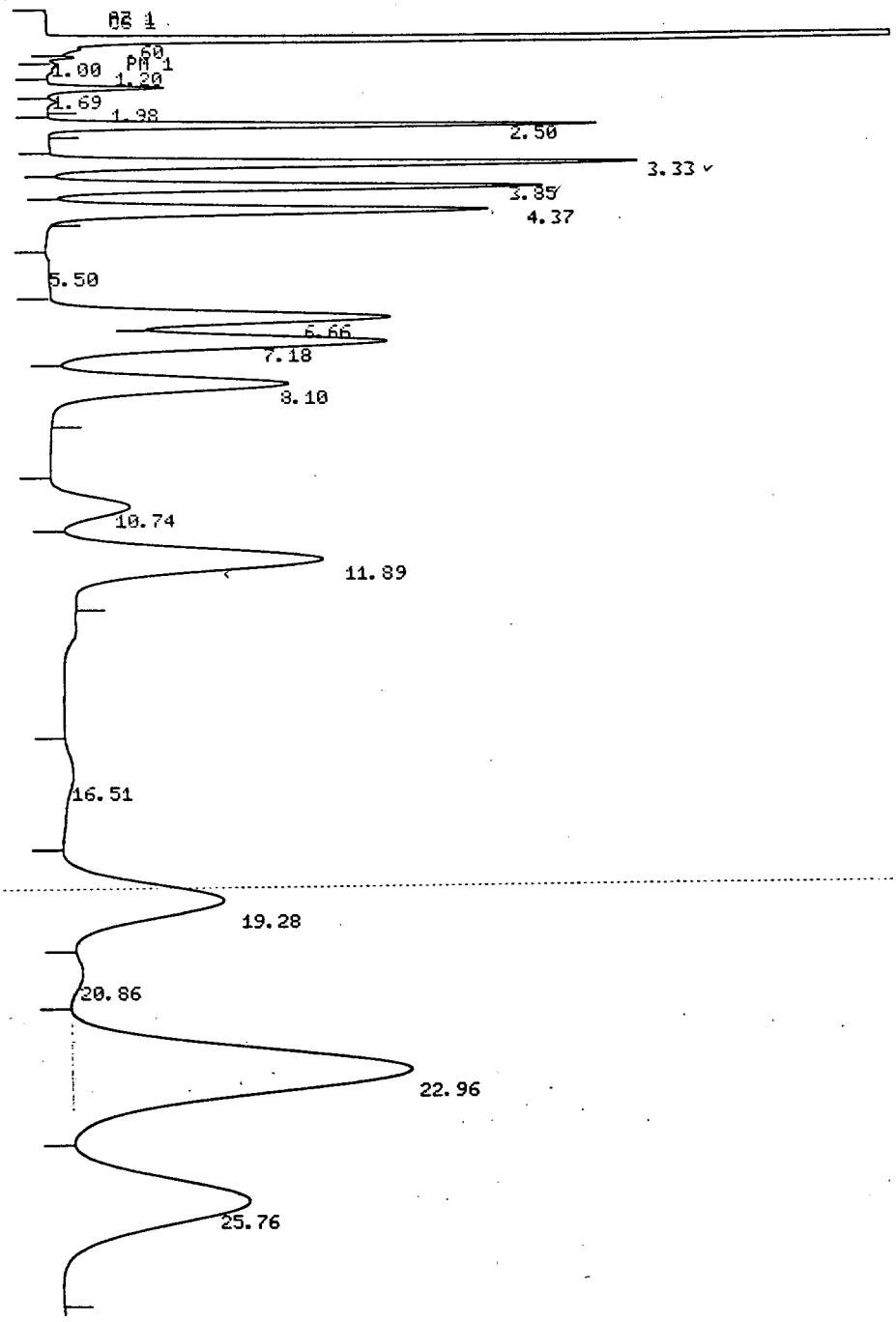
08/28/87 16:36:43 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 283 INDEX 283

PEAK#	AREA%	RT	AREA BC
1	11.682	0.6	132063 02
2	0.251	0.86	2836 02
3	0.154	1.04	1744 02
4	0.119	1.18	1349 02
5	0.157	1.38	1771 03
6	0.018	2.49	207 01
7	2.89	3.05	32675 02
8	0.769	3.33	8697 02
9	3.699	3.68	41814 02
10	4.565	4.38	51609 03
11	0.026	5.46	296 02
12	5.053	6.17	57124 03
13	5.151	7.64	58237 02
14	0.365	8.26	4128 02
15	5.37	9.1	60703 03
16	12.748	12.8	144114 02
17	3.224	14.22	36448 02
18	9.736	16.24	110063 03
19	0.801	21.04	9059 02
20	22.3	23.07	252100 02
21	10.921	24.64	123462 03

MIX B MED STD 1495-59E SIGMA300 8/28/87 AT= 4

CHANNEL A INJECT 08/28/87 17:35:49



08/28/87 17:35:49 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 285 INDEX 285

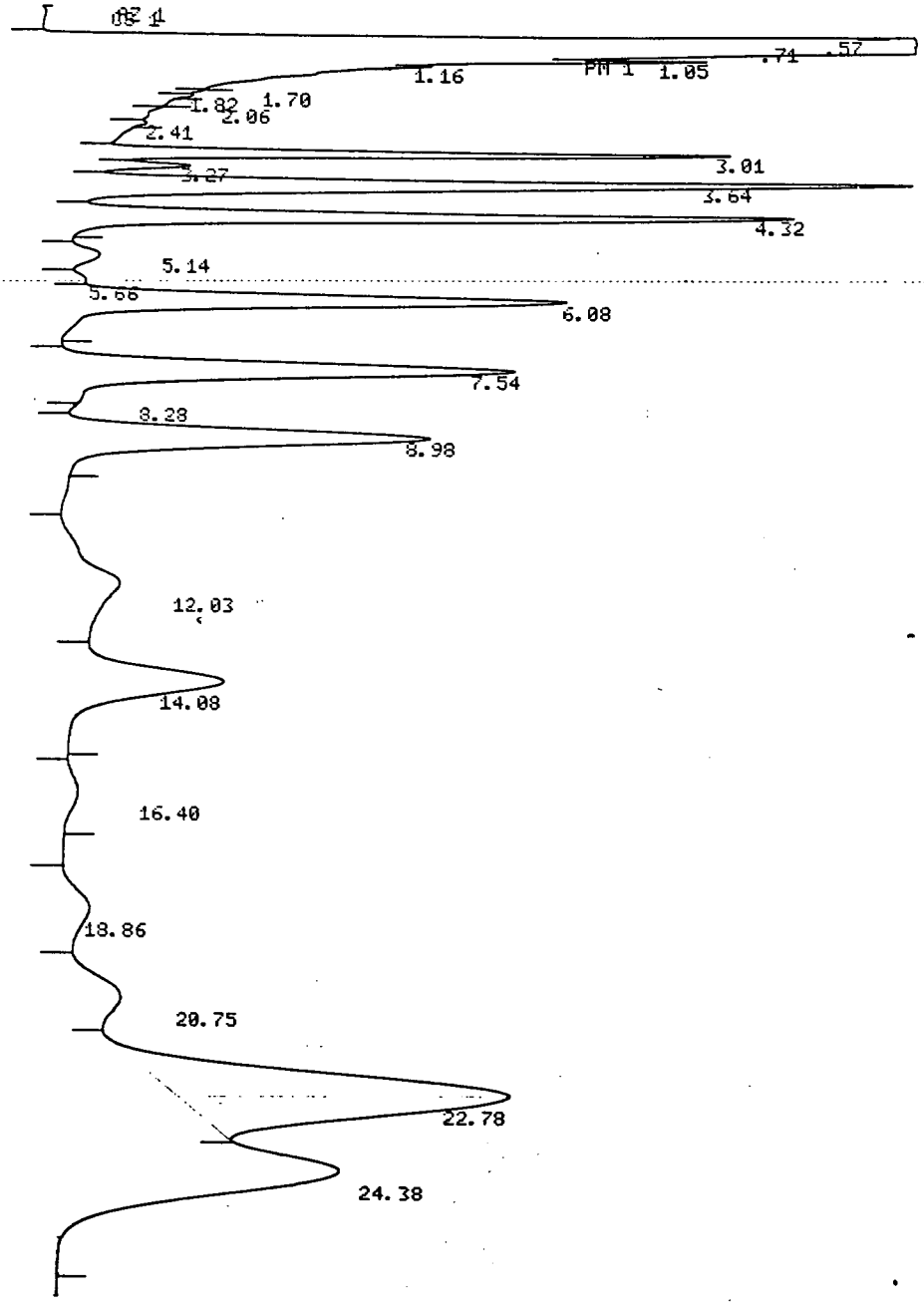
PEAK#	AREA%	RT	AREA BC
1	40.894	0.6	614637 02
2	0.089	1.	1336 02
3	0.062	1.2	938 02
4	0.433	1.69	6503 02
5	0.034	1.98	514 03
6	2.299	2.5	34552 01.
7	3.518	3.33	52876 02.
8	3.183	3.85	47843 02.
9	3.264	4.37	49060 03.
10	0.092	5.5	1385 02
11	3.824	6.66	57468 02.
12	4.224	7.18	63486 02.
13	3.419	8.1	51391 03.
14	1.258	10.74	18913 02.
15	5.194	11.89	78072 03.
16	0.339	16.51	5097 02
17	5.066	19.28	76140 02.
18	0.636	20.86	9556 02
19	14.438	22.96	216994 02.
20	7.733	25.76	116224 03.
TOTAL	100.		

GC SAMPLE CHROMATOGRAMS

552

14558-1 MS PEST SIGMA300 8/26/87 AT= 4

CHANNEL A INJECT 08/26/87 19:27:21



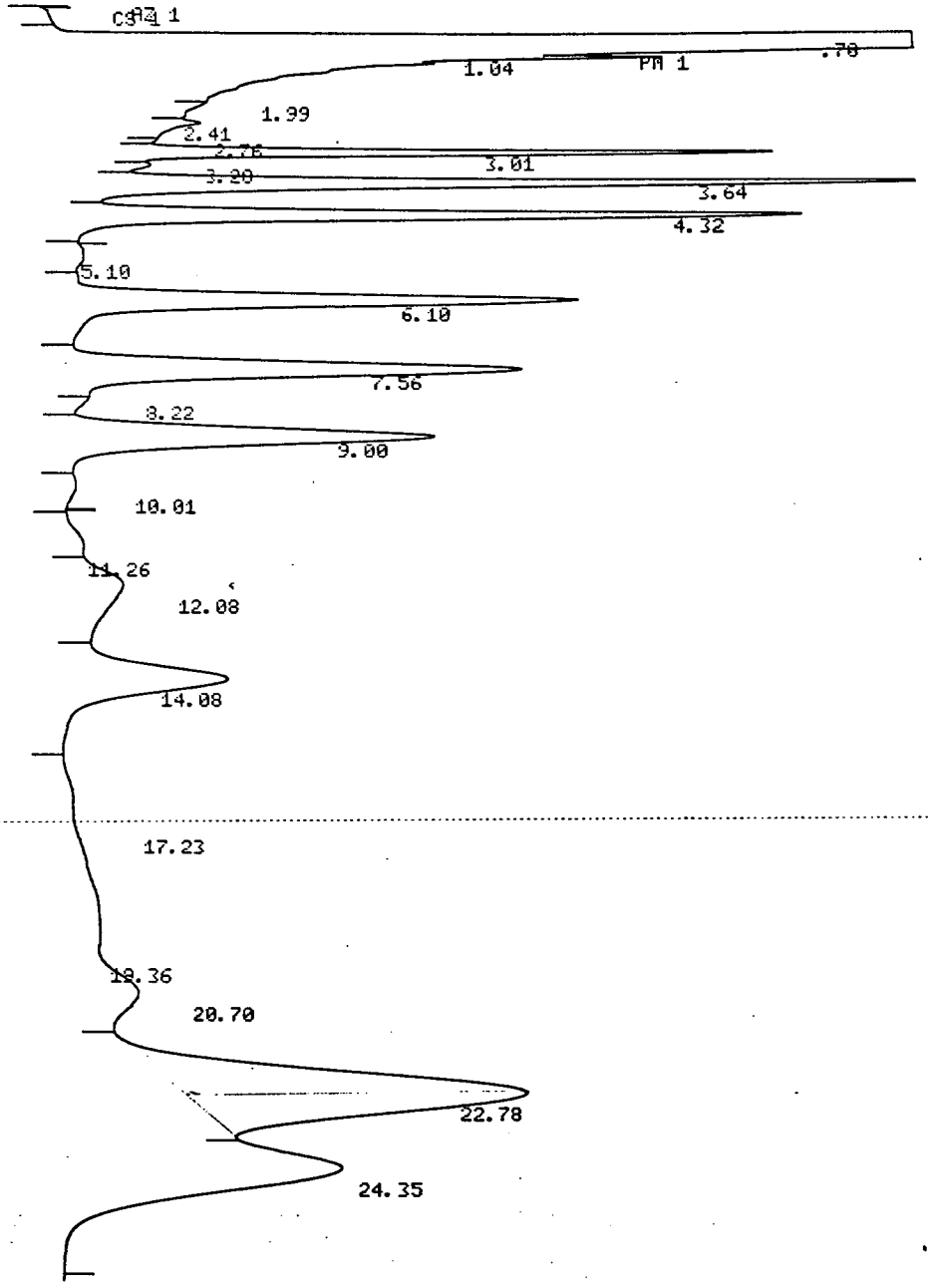
08/26/87 19:27:21 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 237 INDEX 237

PEAK#	AREA%	RT	AREA BC
1	2.53	0.57	47051 02
2	39.332	0.71	731421 08
3	0.263	1.05	4900 05
4	0.026	1.16	492 05
5	0.	1.7	8 05
6	0.018	1.82	326 05
7	0.	2.06	1 05
8	0.021	2.41	382 05
9	2.362	3.01	43929 06
10	0.342	3.27	6358 06
11	4.877	3.64	90694 06
12	4.147	4.32	77114 07
13	0.252	5.14	4688 02
14	0.108	5.66	2014 02
15	4.126	6.08	76724 03
16	4.64	7.54	86288 02
17	0.039	8.28	725 02
18	4.191	8.98	77943 03
19	2.001	12.03	37215 02
20	3.293	14.08	61242 03
21	0.251	16.4	4675 01
22	0.746	18.86	13865 02
23	1.825	20.75	33934 02
24	15.887	22.78	295432 02
25	8.722	24.38	162191 03

14588-1 MSD PEST SIGMA300 8/26/87 AT= 4

CHANNEL A INJECT 08/26/87 19:55:55



08/26/87 19:55:55 CH= "A" PS= 1.

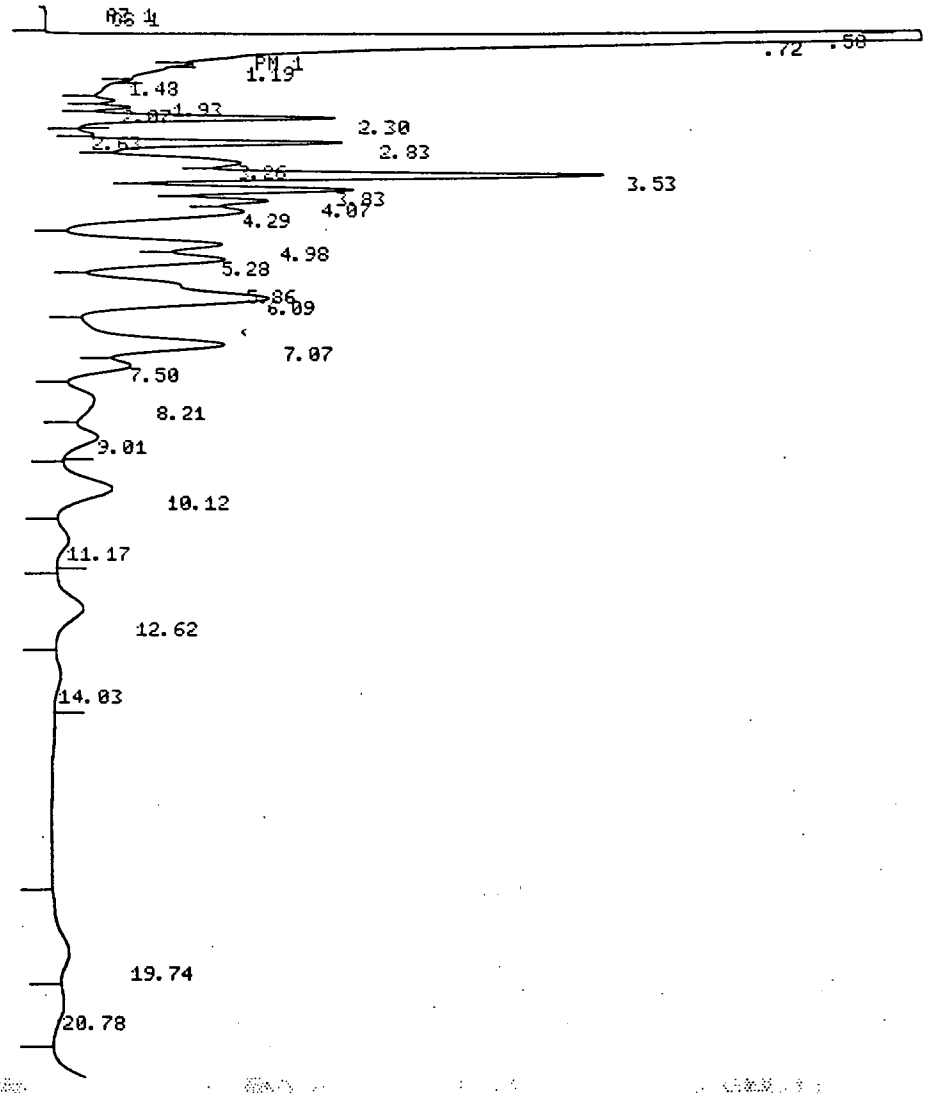
FILE 1. METHOD 0. RUN 238 INDEX 238

PEAK#	AREA%	RT	AREA	BC
1	32.184	0.7	629276	02
2	6.671	1.04	130431	02
3	1.157	1.99	22625	02
4	1.188	2.41	23231	02
5	0.264	2.76	5171	02
6	3.043	3.01	59504	02
7	0.387	3.28	7568	02
8	4.928	3.64	96354	02
9	4.203	4.32	82170	03
10	0.059	5.1	1144	02
11	3.914	6.1	76524	02
12	4.33	7.56	84667	02
13	0.12	8.22	2351	02
14	4.109	9.	80345	08
15	0.065	10.01	1266	05
16	0.261	11.26	5096	02
17	1.911	12.08	37371	02
18	6.887	14.08	134665	08
19	0.032	17.23	632	06
20	0.329	19.36	6441	06
21	0.654	20.7	12780	06
22	15.188	22.78	296965	02
23	8.115	24.35	158673	03
TOTAL	100.		1955250	

554

14558-9 MSD PCB SIGMA300 8/26/87 AT= 8

CHANNEL A INJECT 08/26/87 18:59:44



22.91

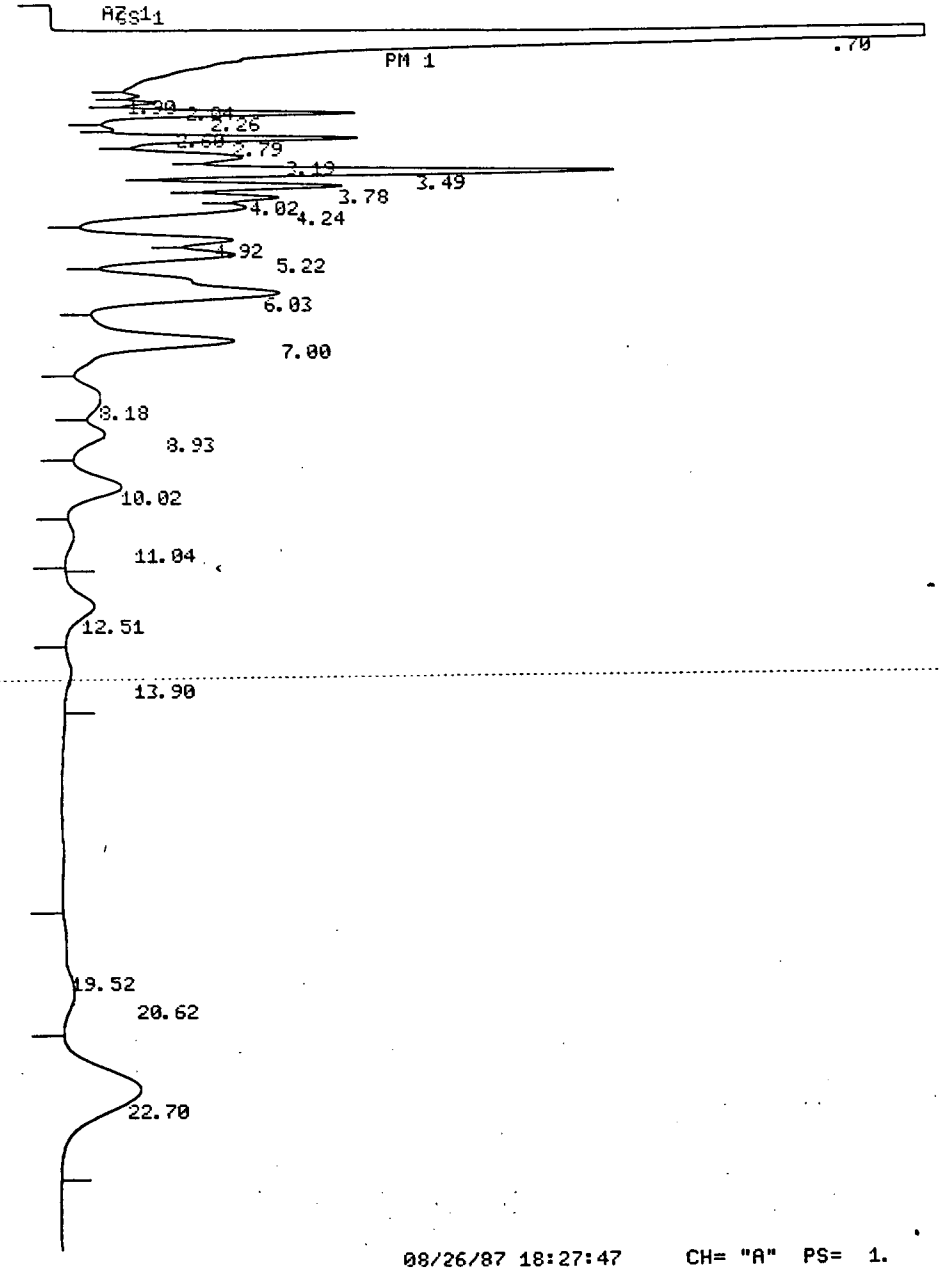
08/26/87 18:59:44 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 236 INDEX 236

PEAK#	AREA%	RT	AREA BC
1	3.416	0.58	49186 02
2	39.919	0.72	574767 08
3	0.049	1.19	703 05
4	0.011	1.48	163 05
5	0.148	1.93	2126 06
6	0.272	2.07	3910 06
7	2.244	2.3	32303 07
8	0.104	2.63	1497 06
9	2.836	2.83	40827 06
10	3.035	3.26	43704 06
11	6.787	3.53	97728 06
12	3.69	3.83	53128 06
13	2.638	4.07	37977 06
14	3.459	4.29	49804 06
15	2.734	4.98	39368 06
16	3.142	5.28	45242 06
17	1.651	5.86	23772 06
18	5.329	6.09	76725 06
19	4.364	7.07	62840 06
20	1.417	7.5	20399 06
21	1.205	8.21	17356 06
22	1.008	9.01	14519 07
23	1.785	10.12	25694 02
24	0.363	11.17	5225 03
25	1.122	12.62	16156 02
26	0.23	14.03	3316 03
27	1.098	19.74	15806 02
28	0.624	20.78	8985 02
29	5.321	22.91	76610 03
TOTAL	100.		1439836

14558-9 MS PCB SIGMA300 8/26/87 AT= 8

CHANNEL A INJECT 08/26/87 18:27:47



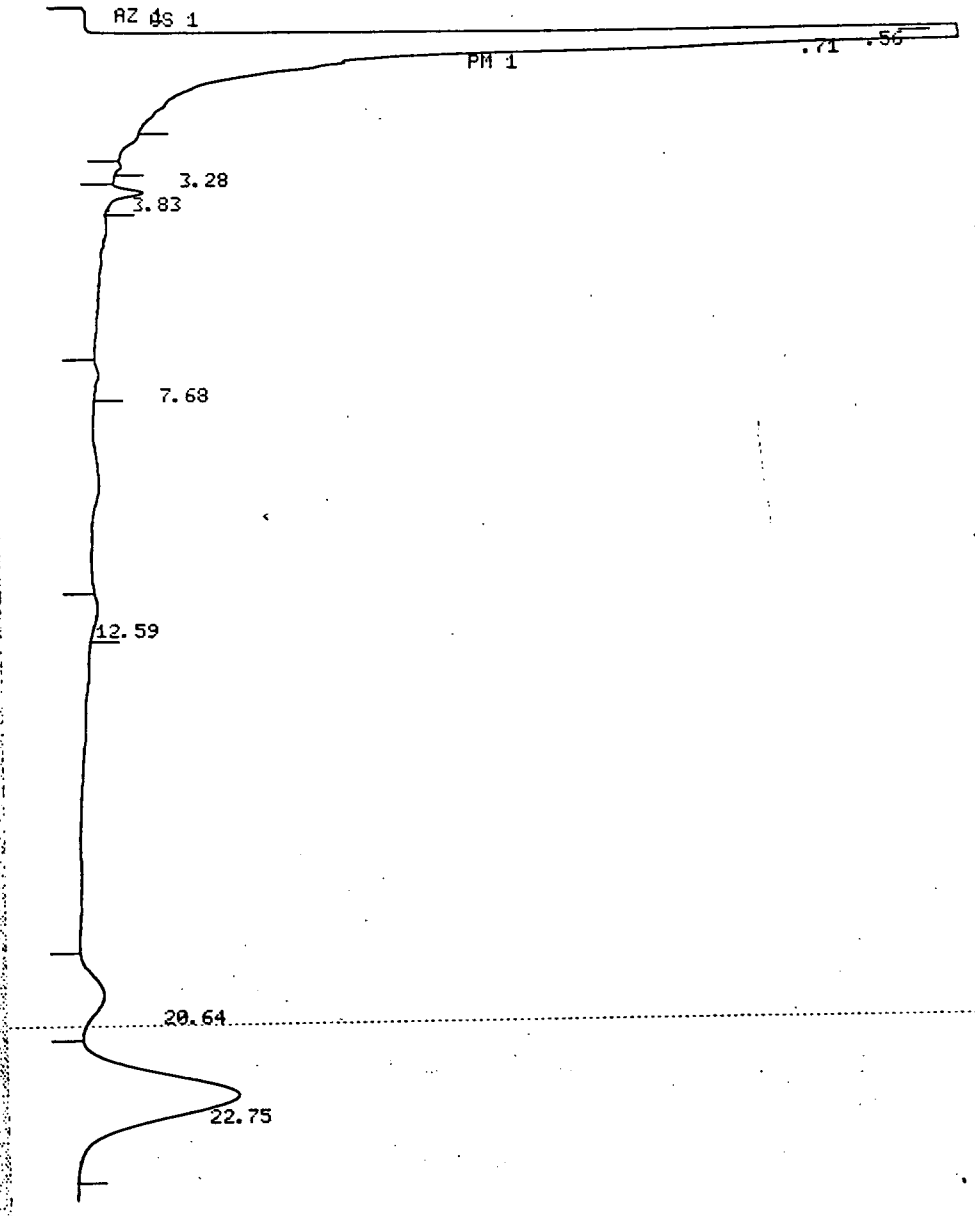
08/26/87 18:27:47 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 235 INDEX 235

PEAK#	AREA%	RT	AREA BC
1	38.457	0.7	618896 02
2	0.781	1.9	12571 02
3	0.888	2.04	14290 02
4	3.264	2.26	52530 02'
5	0.517	2.6	8328 02
6	3.47	2.79	55836 02
7	3.186	3.19	51269 02
8	6.726	3.49	108247 02
9	3.567	3.78	57396 02
10	2.857	4.02	45970 02
11	3.596	4.24	57877 02
12	3.119	4.92	50197 02
13	3.371	5.22	54244 02
14	7.396	6.03	119029 02
15	5.425	7.	87302 02'
16	1.814	8.18	29200 02
17	1.464	8.93	23562 02
18	2.118	10.02	34079 02
19	0.332	11.04	5350 03
20	1.129	12.51	18162 02
21	0.25	13.9	4023 03
22	0.197	19.52	3176 02
23	0.677	20.62	10900 02
24	5.398	22.7	86868 03
TOTAL	100.		1609302

14553-BLK SIGMA300 8/26/87 AT= 4

CHANNEL A INJECT 08/26/87 18:01:24



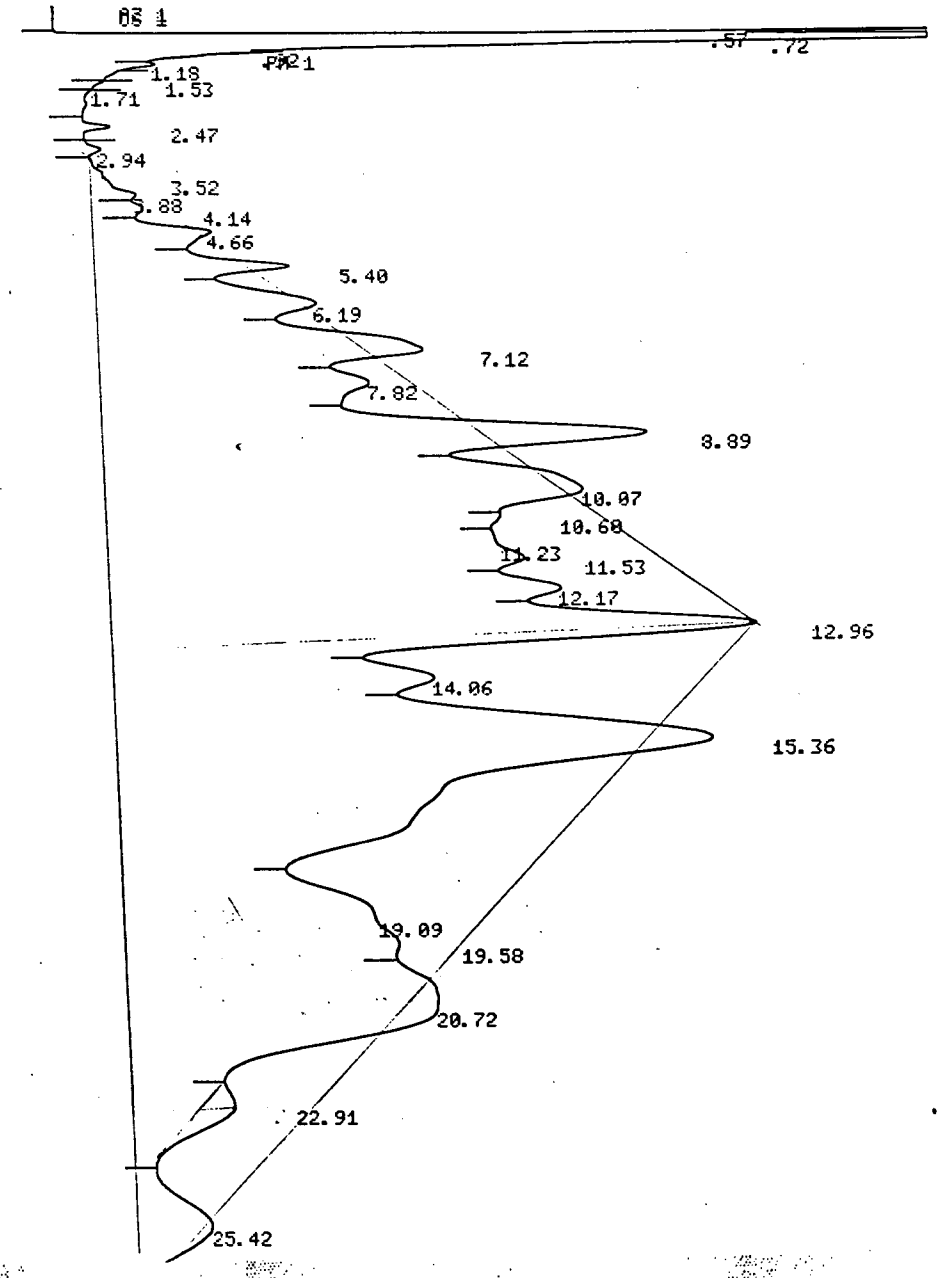
08/26/87 18:01:24 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 234 INDEX 234

PEAK#	AREA%	RT	AREA BC
1	12.156	0.56	69009 02
2	69.219	0.71	392967 03
3	0.057	3.28	321 01
4	0.539	3.83	3061 01
5	0.143	7.68	814 01
6	0.248	12.59	1408 01
7	2.063	20.64	11710 02
8	15.575	22.75	88423 03
TOTAL	100.		567713

14558-MS TOX SIGMA300 8/27/87 AT= 3

CHANNEL A INJECT 08/27/87 21:53:49



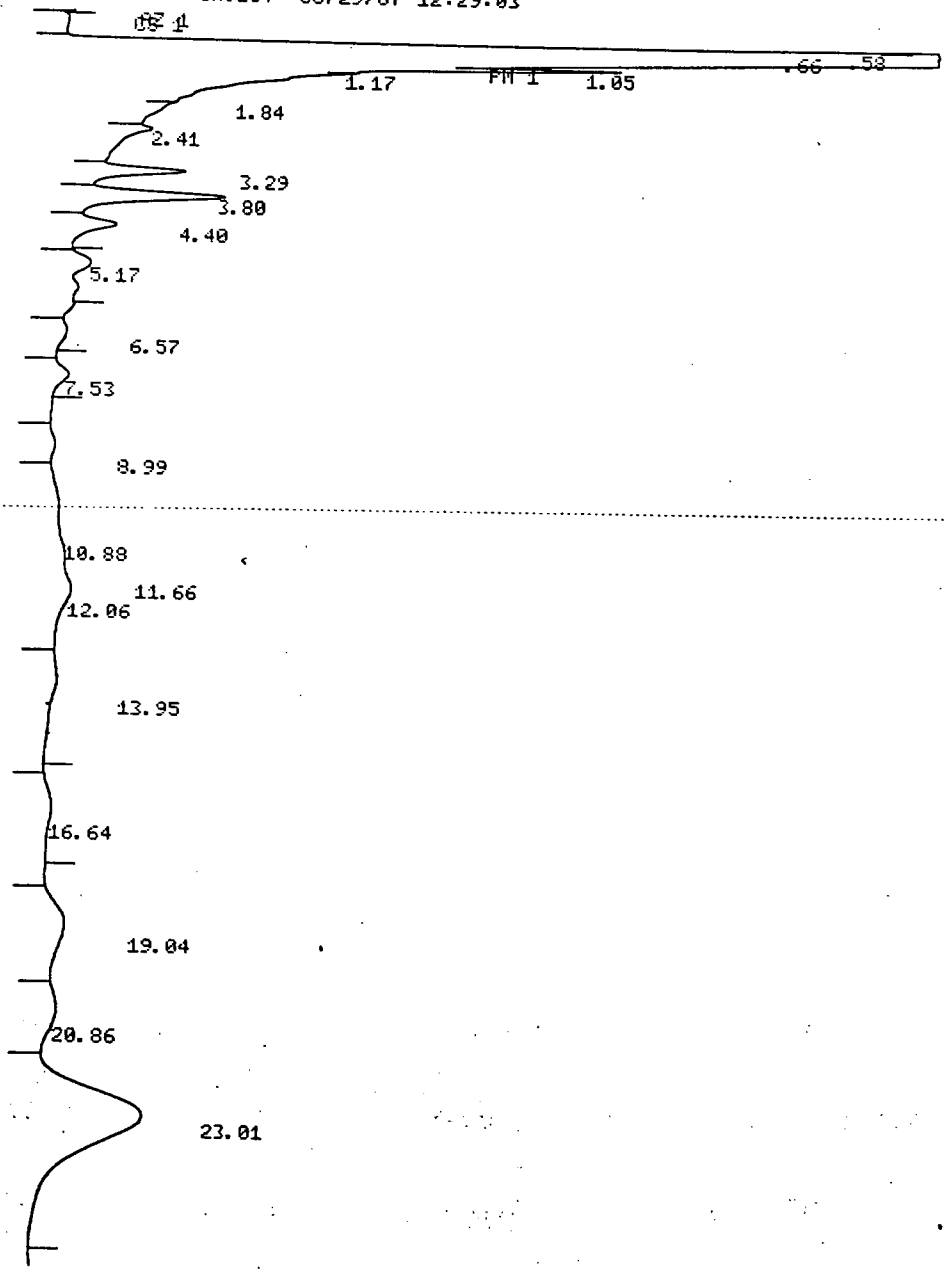
08/27/87 21:53:49 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 265 INDEX 265

PEAK#	AREA%	RT	AREA BC
1	0.792	0.57	55832 02
2	5.494	0.72	387174 08
3	0.012	0.92	846 05
4	0.021	1.18	1494 05
5	0.	1.53	1 05
6	0.	1.71	1 05
7	0.042	2.47	2935 05
8	0.038	2.94	2658 02
9	0.064	3.52	4487 02
10	0.237	3.88	16668 02
11	0.264	4.14	18620 02
12	0.968	4.66	68203 02
13	1.399	5.4	98608 02
14	2.318	6.19	163359 02
15	3.966	7.12	279528 02
16	3.093	7.82	217965 02
17	6.44	8.89	453866 02
18	7.797	10.07	549477 02
19	2.145	10.6	151162 02
20	1.932	11.23	136188 02
21	3.574	11.53	251901 02
22	4.222	12.17	297547 02
23	8.542	12.96	602015 02
24	3.577	14.06	252066 02
25	26.874	15.36	1893956 08
26	0.341	19.09	24032 06
27	0.25	19.58	17642 06
28	9.665	20.72	681120 02
29	2.586	22.91	182260 02
30	2.633	25.42	185556 02
31	0.714	27.26	50285 03
TOTAL	100.		7047452

14558-1 SIGMA300 8/29/87 AT= 4

CHANNEL A INJECT 08/29/87 12:29:03



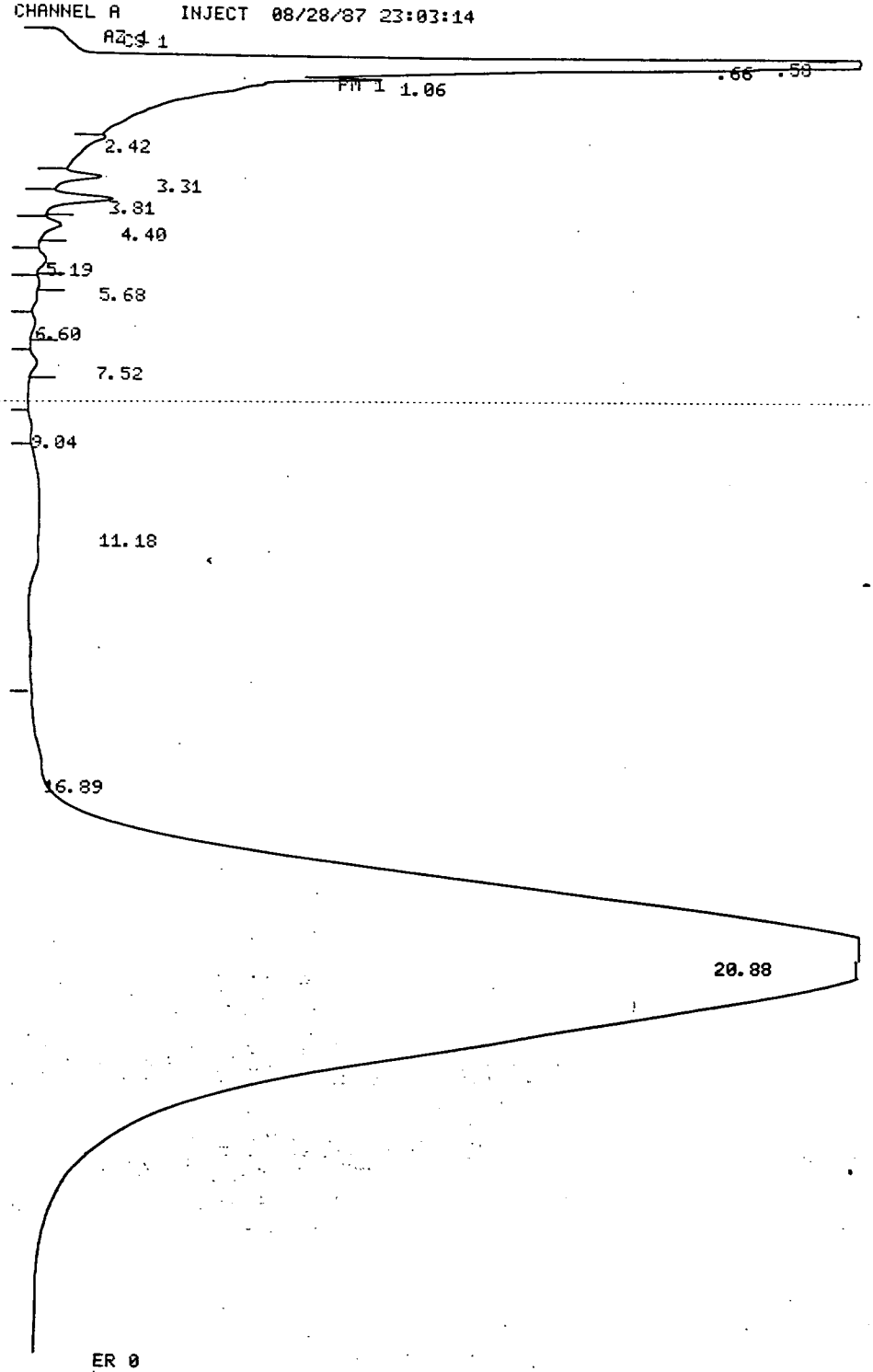
08/29/87 12:29:03 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 3 INDEX 3

PEAK#	AREA%	RT	AREA BC
1	5.432	0.58	38714 02
2	50.104	0.66	357104 02
3	4.75	1.05	33856 02
4	8.441	1.17	60163 02
5	3.043	1.84	21690 02
6	3.023	2.41	21546 02
7	2.018	3.29	14384 02
8	2.639	3.8	18810 02
9	0.902	4.4	6426 03
10	0.442	5.17	3151 01
11	0.159	6.57	1135 01
12	0.357	7.53	2547 01
13	0.155	8.99	1106 02
14	0.839	10.88	5979 02
15	0.87	11.66	6203 02
16	1.766	12.06	12586 02
17	1.101	13.95	7848 03
18	0.405	16.64	2884 01
19	1.836	19.04	13085 02
20	1.316	20.86	9377 02
21	10.401	23.01	74133 03
TOTAL	100.		712727

14558-1 SIGMA300 8/28/87 AT= 8

CHANNEL A INJECT 08/28/87 23:03:14



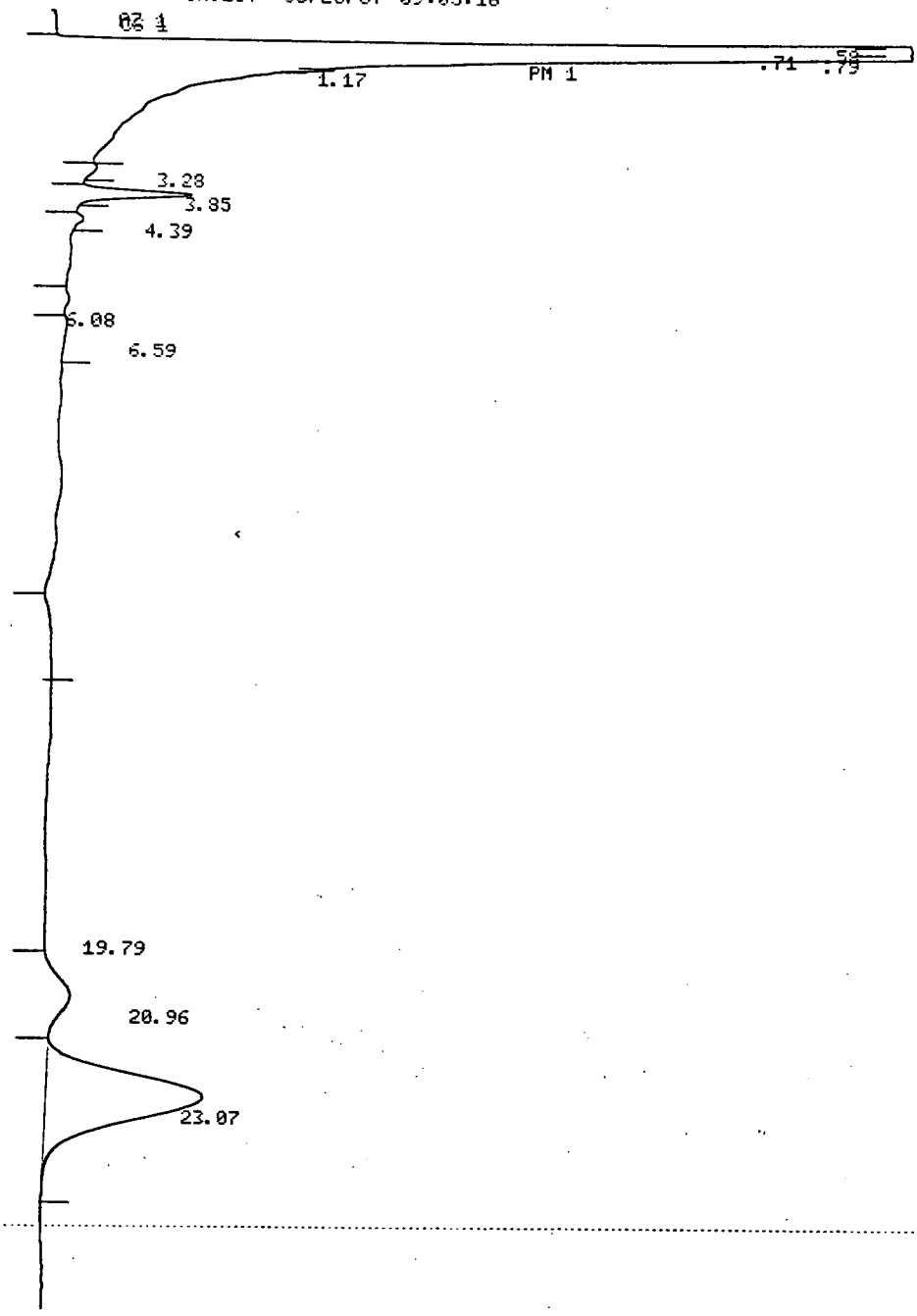
08/28/87 23:03:14 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 295 INDEX 295

PEAK#	AREA%	RT	AREA	BC
1	1.036	0.58	49423	02
2	8.494	0.66	405347	02
3	4.124	1.06	196803	02
4	0.638	2.42	30465	02
5	0.285	3.31	13620	02
6	0.322	3.81	15369	03
7	0.089	4.4	4242	01
8	0.06	5.19	2851	01
9	0.012	5.68	556	01
10	0.029	6.6	1397	01
11	0.053	7.52	2522	01
12	0.038	9.04	1830	02
13	0.703	11.18	33572	02
14	0.4	16.89	19107	02
15	83.716	20.88	3995163	03
TOTAL	100.		4773267	

14558-2 SIGMA 300 8/28/87 AT= 4

CHANNEL A INJECT 08/28/87 09:05:16



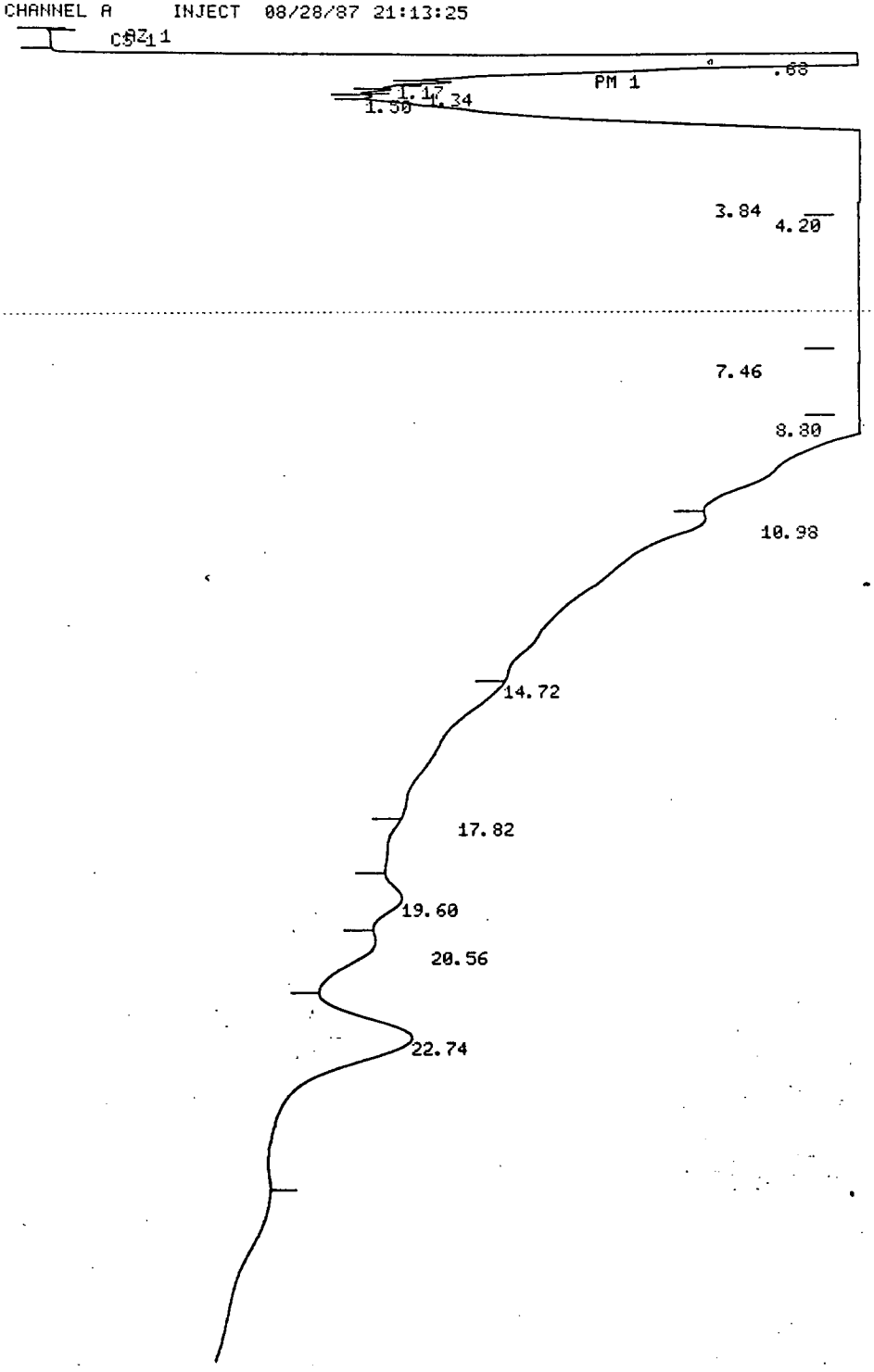
08/28/87 09:05:16 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 273 INDEX 273

PEAK#	AREA%	RT	AREA BC
1	8.325	0.58	52582 02
2	35.503	0.71	224239 02
3	36.593	0.79	231123 08
4	0.091	1.17	573 05
5	0.096	3.28	605 01
6	1.617	3.85	10210 01
7	0.129	4.39	812 01
8	0.086	6.08	544 02
9	0.124	6.59	786 03
10	2.091	20.96	13204 02
11	15.346	23.07	96925 03
TOTAL	100.		631603

14558-3 SIGMA300 8/28/87 AT= 4

CHANNEL A INJECT 08/28/87 21:13:25



08/28/87 21:13:25 CH= "A" PS= 1.

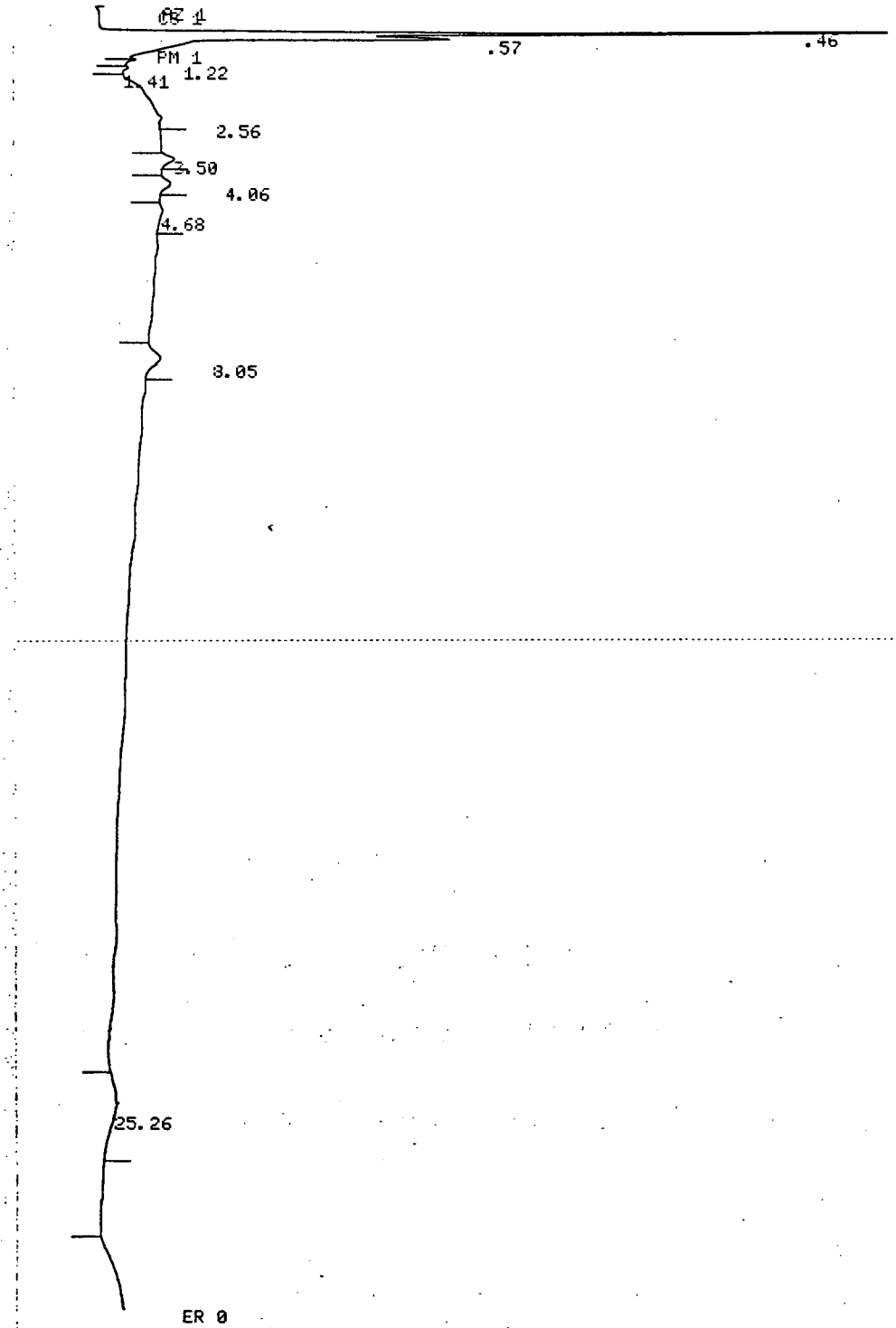
FILE 1. METHOD 0. RUN 292 INDEX 292

PEAK#	AREA%	RT	AREA	BC
1	5.234	0.68	535853	08
2	0.011	1.17	1172	05
3	0.004	1.34	419	05
4	0.003	1.5	323	06
5	28.749	3.84	2943448	02
6	32.133	4.2	3289925	02
7	7.571	7.46	775146	02
8	7.677	8.8	786030	02
9	9.253	10.98	947374	02
10	4.383	14.72	448723	02
11	1.218	17.82	124735	02
12	1.21	19.6	123917	02
13	1.012	20.56	103624	02
14	1.54	22.74	157636	03
TOTAL	100.		10238325	

564

14558-3 10:1 SIGMA300 8/28/87 AT= 4

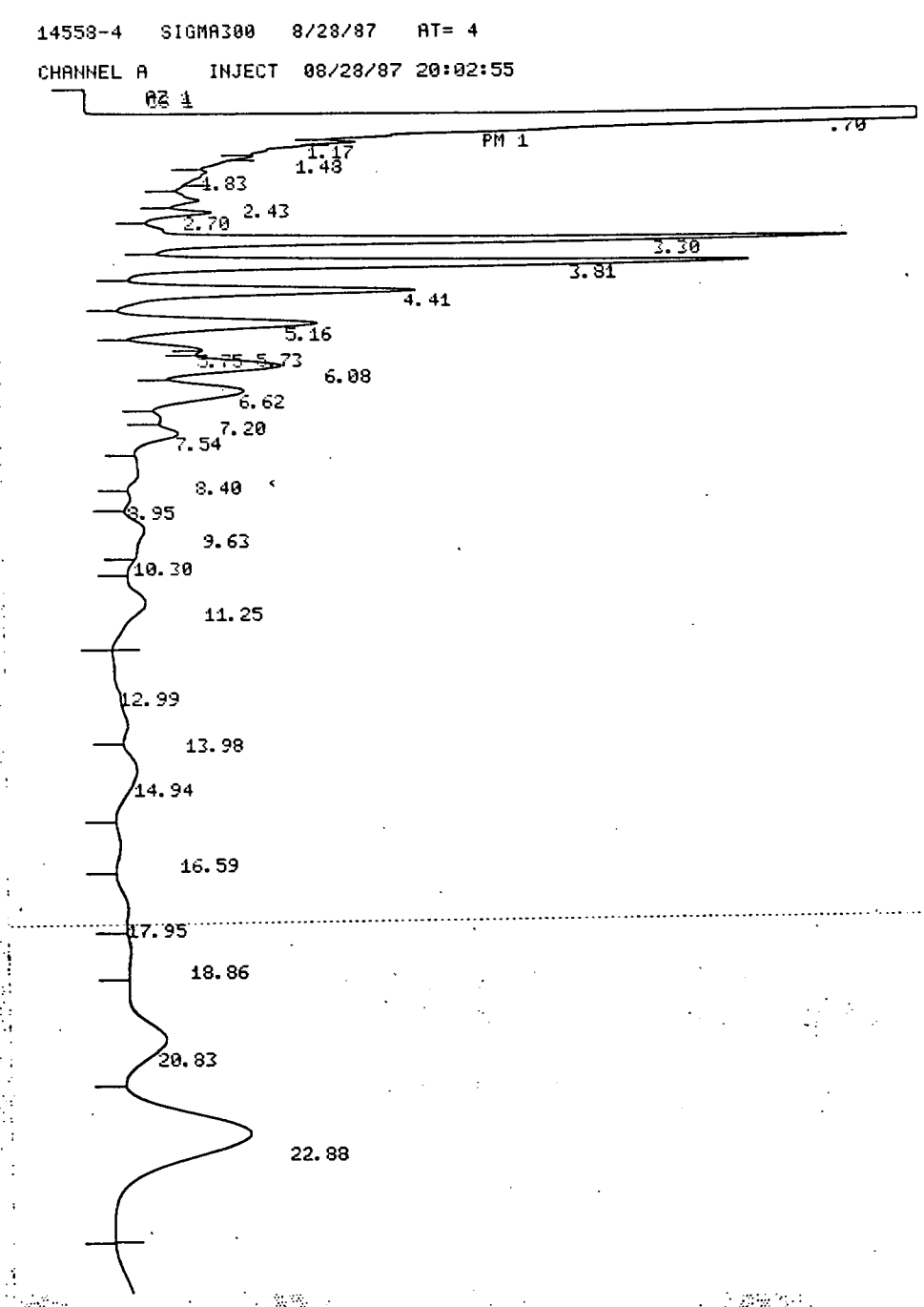
CHANNEL A INJECT 08/29/87 11:10:00



08/29/87 11:10:00 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 1 INDEX 1

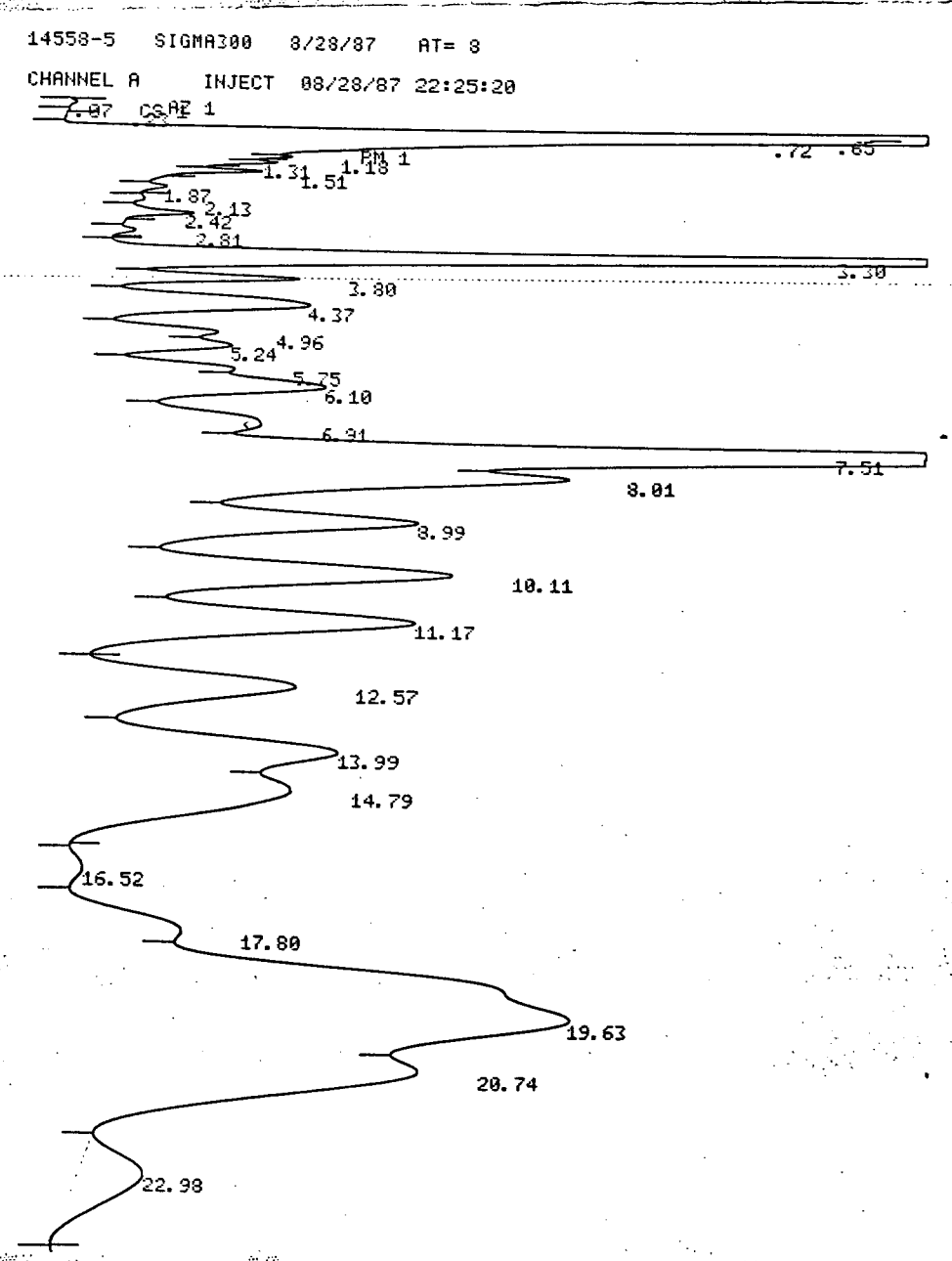
PEAK#	AREA%	RT	AREA	BC
1	0.132	0.46	107	02
2	79.372	0.57	64201	02
3	1.439	1.22	1164	02
4	0.606	1.41	490	02
5	5.697	2.56	4608	03
6	1.605	3.5	1298	01
7	1.443	4.06	1167	01
8	0.789	4.68	638	01
9	3.392	8.05	2744	01
10	5.525	25.26	4469	01
TOTAL	100.		80886	

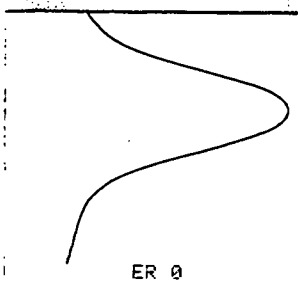

14558-4 SIGMA300 8/28/87 AT= 4
CHANNEL A INJECT 08/28/87 20:02:55
AZ 1
PM 1
.70
1.17
1.48
4.83
2.43
2.70
3.30
3.81
4.41
5.16
5.73
6.08
6.62
7.20
7.54
8.40
8.95
9.63
10.30
11.25
12.99
13.98
14.94
16.59
17.95
18.86
20.83
22.88

08/28/87 20:02:55 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 290 INDEX 290

PEAK#	AREA%	RT	AREA BC
1	52.866	0.7	580242 08
2	0.115	1.17	1264 05
3	0.03	1.48	333 05
4	0.081	1.83	886 05
5	0.294	2.43	3227 06
6	0.37	2.7	4057 06
7	5.777	3.3	63409 06
8	5.705	3.81	62619 06
9	3.121	4.41	34252 06
10	2.715	5.16	29804 06
11	0.653	5.73	7167 06
12	0.404	5.75	4431 06
13	2.935	6.08	32214 06
14	2.821	6.62	30957 06
15	0.619	7.2	6798 06
16	1.332	7.54	14622 06
17	0.805	8.4	8834 06
18	0.321	8.95	3522 06
19	1.243	9.63	13648 06
20	0.293	10.3	3219 06
21	1.394	11.25	15301 07
22	0.051	12.99	557 02
23	0.68	13.98	7459 02
24	1.225	14.94	13448 02
25	0.288	16.59	3162 02
26	0.677	17.95	7426 02
27	0.732	18.86	8034 02
28	3.192	20.83	35033 02
29	7.71	22.88	84625 03
30	1.55	26.62	17011 01
TOTAL	100.		1097561


14558-5 SIGMA300 8/28/87 AT= 8
CHANNEL A INJECT 08/28/87 22:25:20
.87 CS AF 1
.72 .65
BM 1
1.31
1.18
1.51
1.87
2.13
2.42
2.81
3.30
3.80
4.37
4.96
5.24
5.75
6.10
6.91
7.51
8.01
8.99
10.11
11.17
12.57
13.99
14.79
16.52
17.80
19.63
20.74
22.98



ER 0

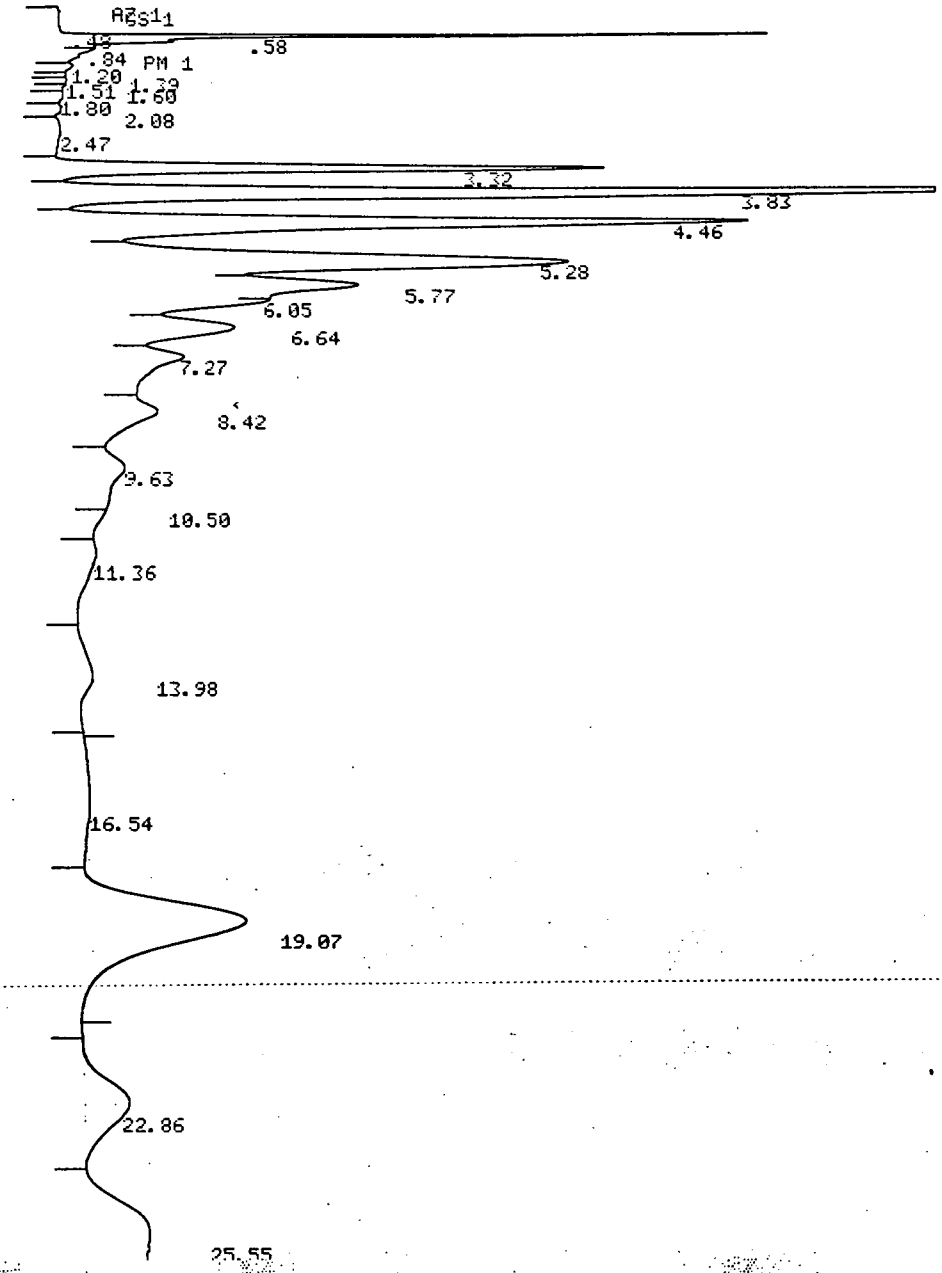
08/28/87 22:25:20 CH= "A" PS= 1.

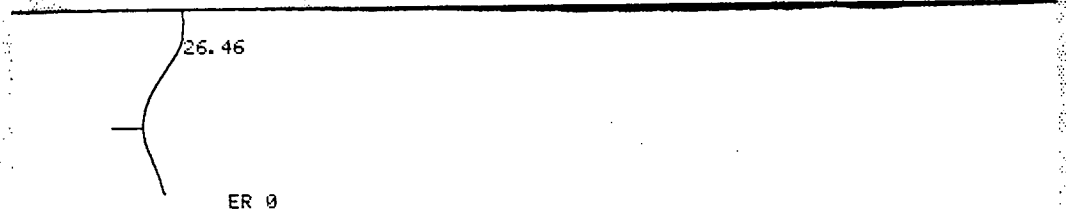
FILE 1. METHOD 0. RUN 294 INDEX 294

PEAK#	AREA%	RT	AREA	BC
1	0.012	0.07	687	02
2	0.002	0.23	141	03
3	8.851	0.65	505941	02
4	8.486	0.72	485089	08
5	0.019	1.18	1088	05
6	0.05	1.31	2870	05
7	0.108	1.51	6185	05
8	0.042	1.87	2386	05
9	0.016	2.13	943	06
10	0.155	2.42	8871	07
11	0.039	2.81	2232	05
12	5.984	3.3	342033	02
13	0.663	3.8	37927	02
14	1.347	4.37	76972	02
15	0.473	4.96	27050	02
16	0.647	5.24	36990	02
17	0.564	5.75	32255	02
18	1.771	6.1	101230	02
19	1.512	6.91	86453	02
20	9.541	7.51	545386	02
21	4.288	8.01	245138	02
22	3.454	8.99	197418	02
23	3.981	10.11	227543	02
24	3.673	11.17	209967	03
25	2.645	12.57	151209	02
26	3.595	13.99	205472	02
27	3.714	14.79	212315	03
28	0.123	16.52	7054	02
29	1.368	17.8	78171	02
30	15.988	19.63	913943	02
31	6.991	20.74	399622	02
32	2.151	22.98	122930	03
33	7.745	26.73	442743	01
TOTAL	100.		5716254	

14558-6 10:1 SIGMA300 8/29/87 AT= 8

CHANNEL A INJECT 08/29/87 13:08:42

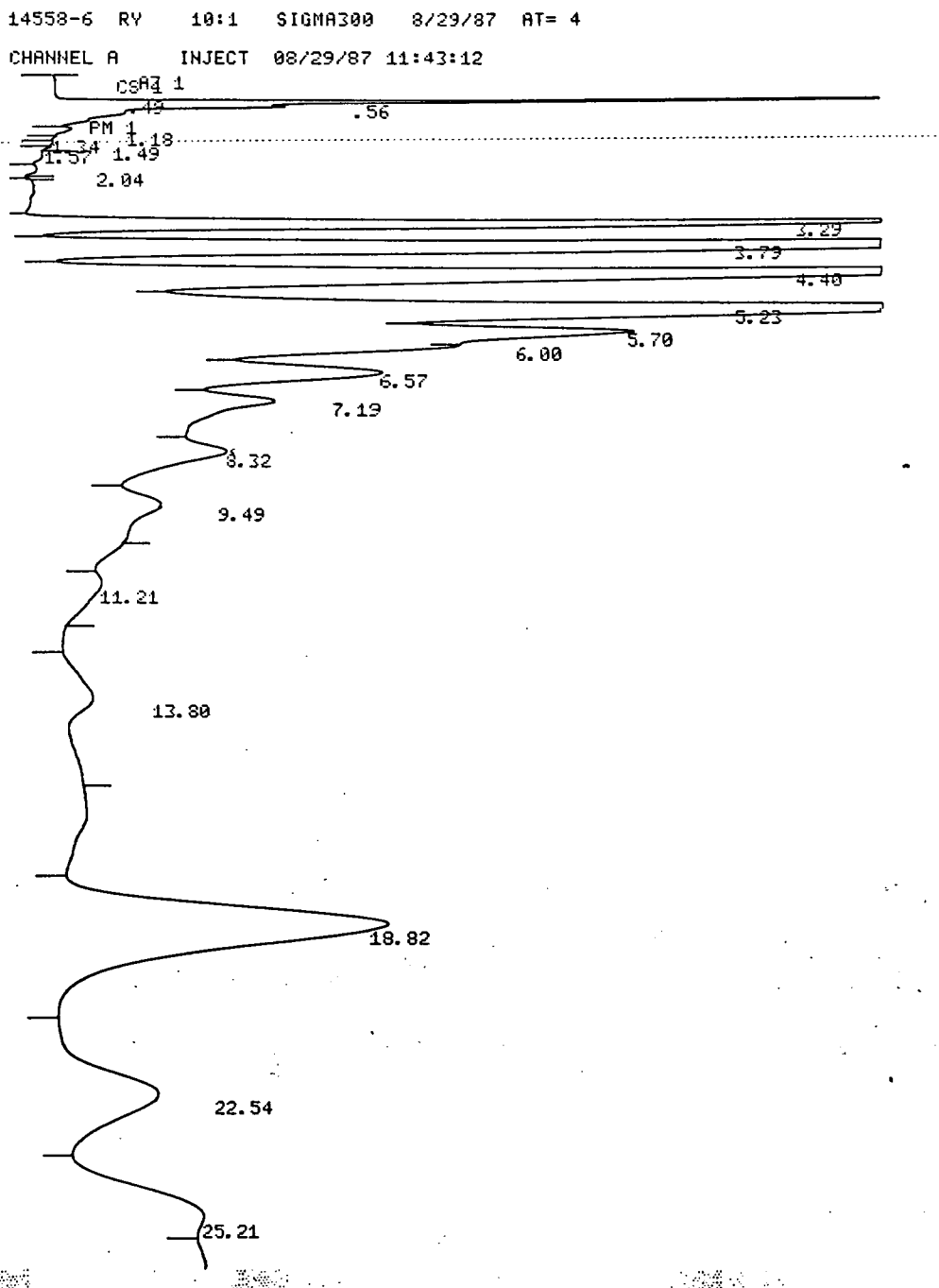


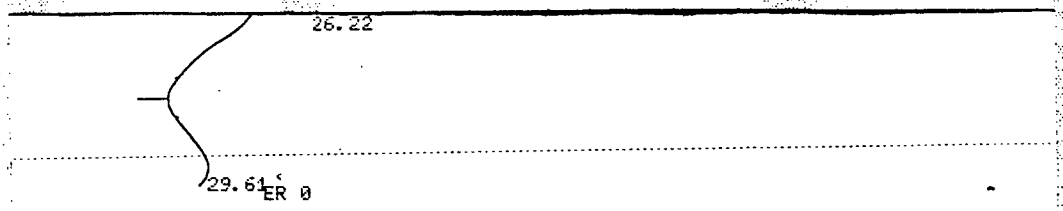


08/29/87 13:08:42 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 4 INDEX 4

PEAK#	AREA%	RT	AREA BC
1	0.069	0.48	1183 02
2	2.762	0.58	47265 02
3	0.463	0.84	7930 02
4	0.167	1.2	2853 02
5	0.057	1.39	983 02
6	0.084	1.51	1446 02
7	0.059	1.6	1007 02
8	0.096	1.8	1651 02
9	0.066	2.08	1138 02
10	0.141	2.47	2406 02
11	5.458	3.32	93401 02
12	12.89	3.83	220592 02
13	11.355	4.46	194309 02
14	12.379	5.28	211842 02
15	7.11	5.77	121677 02
16	3.221	6.05	55124 02
17	5.103	6.64	87327 02
18	5.527	7.27	94581 02
19	4.323	8.42	73983 02
20	3.393	9.63	58070 02
21	0.903	10.5	15447 02
22	1.238	11.36	21178 02
23	0.542	13.98	9270 03
24	0.652	16.54	11165 02
25	10.439	19.07	178635 03
26	3.024	22.86	51756 02
27	4.099	25.55	70153 02
28	4.377	26.46	74911 03
TOTAL	100.		1711283

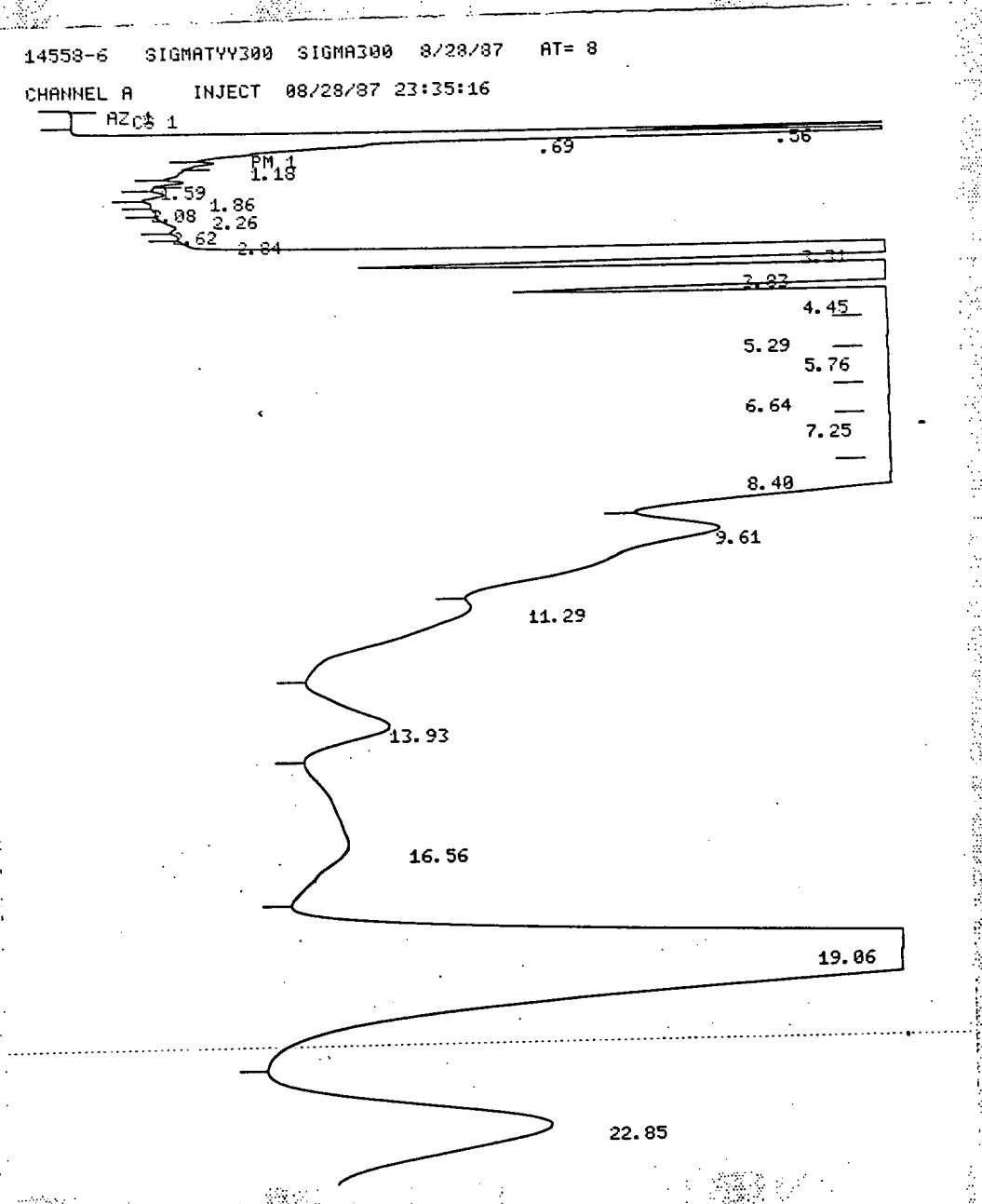

14558-6 RY 10:1 SIGMA300 8/29/87 AT= 4
CHANNEL A INJECT 08/29/87 11:43:12
.56
1.18
1.49
2.04
3.29
3.79
4.40
5.23
5.70
6.00
6.57
7.19
8.32
9.49
11.21
13.80
18.82
22.54
25.21

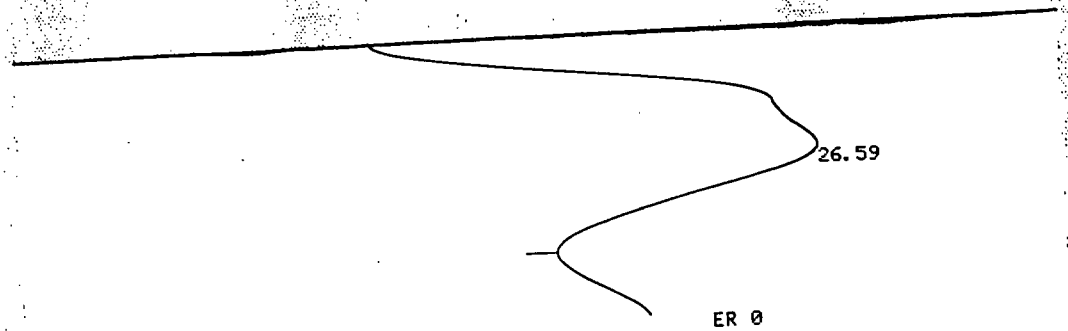


08/29/87 11:43:12 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 2 INDEX 2

PEAK#	AREA%	RT	AREA	BC
1	0.074	0.49	1203	02
2	3.434	0.56	55575	02
3	0.134	1.18	2169	02
4	0.034	1.34	551	02
5	0.037	1.49	594	02
6	0.016	1.57	259	03
7	0.04	2.04	649	01
8	6.136	3.29	99300	02
9	14.353	3.79	232296	02
10	12.48	4.4	201982	02
11	13.451	5.23	217700	02
12	7.6	5.7	123000	02
13	3.162	6.	51173	02
14	5.006	6.57	81026	02
15	4.726	7.19	76480	02
16	2.985	8.32	48314	02
17	1.074	9.49	17376	03
18	0.314	11.21	5089	01
19	0.452	13.8	7322	01
20	11.323	18.82	183251	02
21	3.421	22.54	55373	02
22	4.14	25.21	67002	02
23	5.308	26.22	85899	02
24	0.299	29.61	4840	03
TOTAL	100.		1618423	


14558-6 SIGMATYY300 SIGMA300 8/28/87 AT= 8
CHANNEL A INJECT 08/28/87 23:35:16
AZO$ 1
.69
.56
PM 1
1.18
1.59
1.86
2.08
2.26
2.62
2.84
4.45
5.29
5.76
6.64
7.25
8.40
9.61
11.29
13.93
16.56
19.06
22.85



ER 0

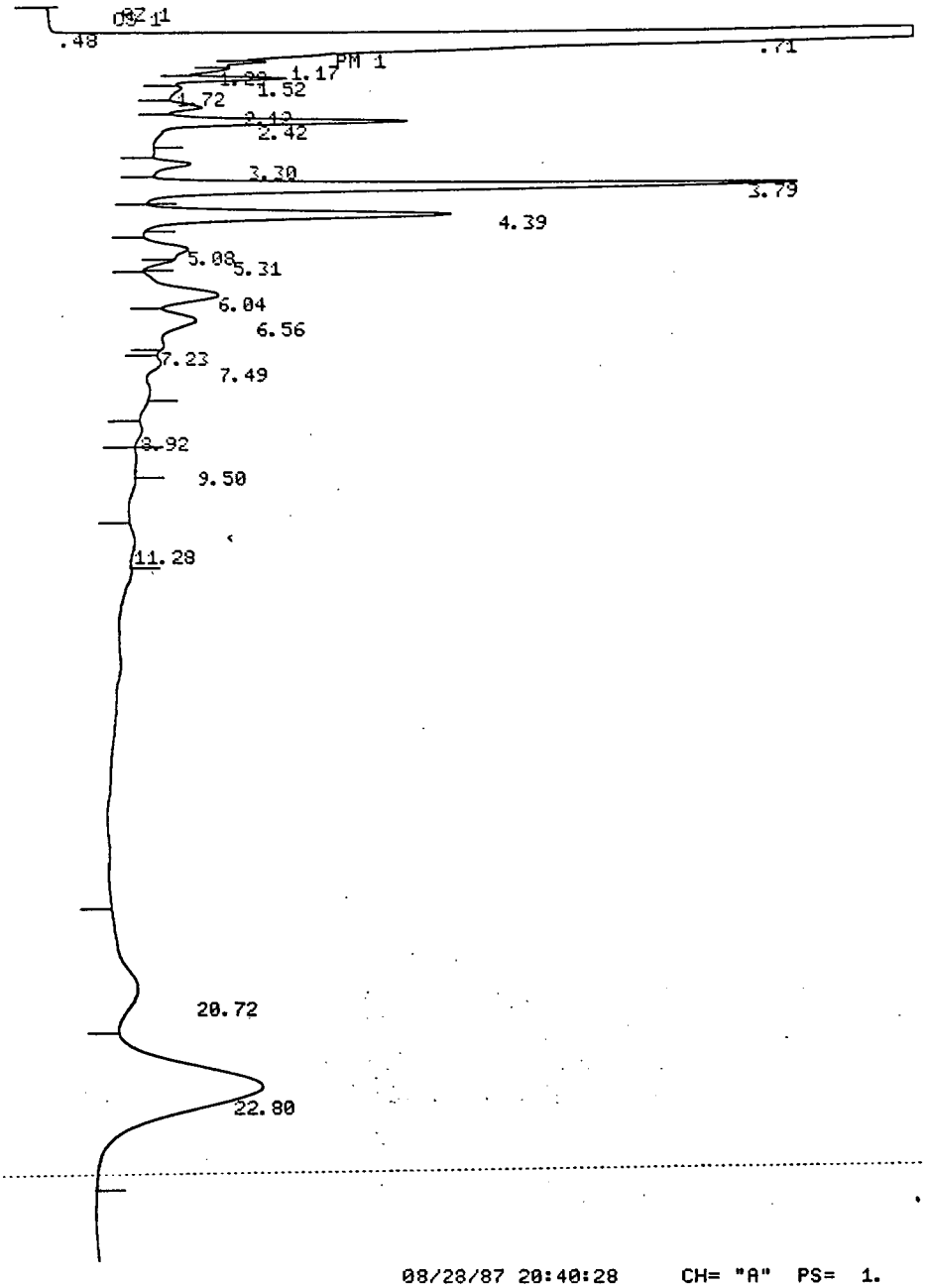
08/28/87 23:35:16 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 296 INDEX 296

PEAK#	AREA%	RT	AREA BC
1	0.289	0.56	54920 02
2	1.895	0.69	359955 08
3	0.009	1.18	1644 05
4	0.011	1.59	2098 05
5	0.011	1.86	2098 06
6	0.004	2.08	753 06
7	0.003	2.26	595 06
8	0.01	2.62	1924 06
9	0.002	2.84	355 06
10	5.058	3.31	960621 02
11	13.932	3.83	2646012 02
12	11.781	4.45	2237541 02
13	13.055	5.29	2479581 02
14	11.268	5.76	2140125 02
15	5.994	6.64	1138464 02
16	6.495	7.25	1233642 02
17	4.763	8.4	904619 02
18	4.836	9.61	918476 02
19	2.266	11.29	430345 02
20	1.582	13.93	300530 02
21	2.007	16.56	381278 02
22	7.891	19.06	1498740 02
23	1.707	22.85	324290 02
24	5.129	26.59	974182 03
TOTAL	100.		18992788

14558-7 SIGMA300 8/28/87 AT= 4

CHANNEL A INJECT 08/28/87 20:40:28



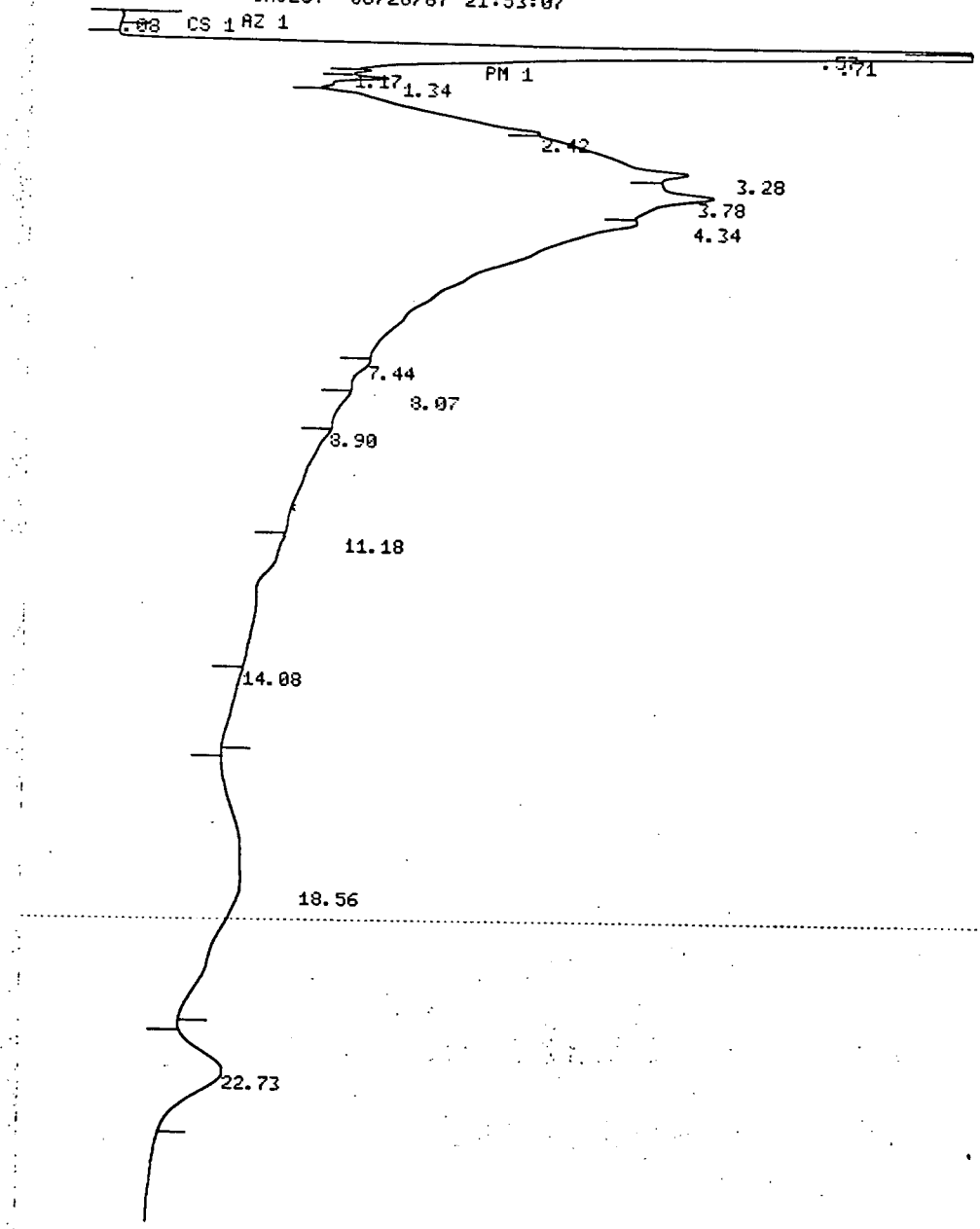
08/28/87 20:40:28 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 291 INDEX 291

PEAK#	AREA%	RT	AREA	BC
1	0.007	0.48	55	02
2	59.983	0.71	500699	02
3	1.361	1.17	11362	02
4	1.329	1.29	11091	02
5	1.676	1.52	13990	02
6	1.28	1.72	10682	02
7	1.194	2.12	9968	02
8	2.759	2.42	23029	03
9	0.412	3.3	3442	02
10	7.229	3.79	60347	03
11	3.848	4.39	32118	01
12	0.801	5.08	6686	02
13	0.2	5.31	1673	03
14	1.65	6.04	13777	02
15	1.588	6.56	13258	02
16	0.075	7.23	628	02
17	0.334	7.49	2790	03
18	0.077	8.92	639	01
19	0.033	9.5	273	01
20	0.132	11.28	1099	01
21	2.524	20.72	21069	02
22	11.508	22.8	96058	03
TOTAL	100.		834733	

14558-8 SIGMA300 8/28/87 AT= 8

CHANNEL A INJECT 08/28/87 21:53:07



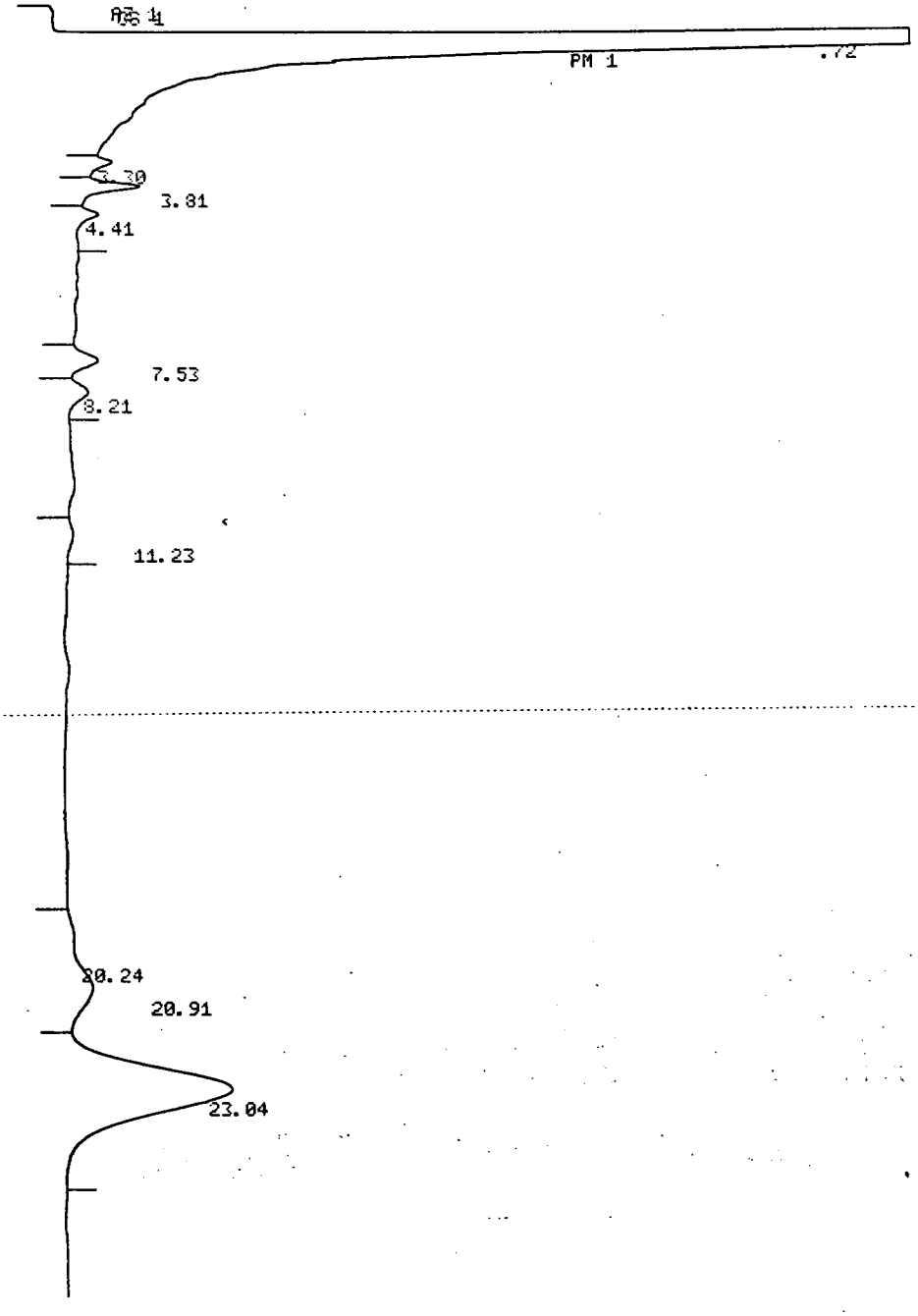
08/28/87 21:53:07 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 293 INDEX 293

PEAK#	AREA%	RT	AREA BC
1	0.01	0.08	374 01
2	1.414	0.57	54712 02
3	11.277	0.71	436370 02
4	0.747	1.17	28894 02
5	1.928	1.34	74591 02
6	7.594	2.42	293869 02
7	12.942	3.28	500786 02
8	11.602	3.78	448964 02
9	26.888	4.34	1040450 02
10	3.777	7.44	146163 02
11	3.827	8.07	148094 02
12	7.557	8.9	292428 02
13	4.778	11.18	184892 02
14	0.76	14.08	29420 03
15	3.452	18.56	133572 01
16	1.447	22.73	55999 01
TOTAL	100.		3869578

14553-9 SIGMA 300 8/28/87 AT= 4

CHANNEL A INJECT 08/28/87 09:33:51



08/28/87 09:33:51 CH= "A" PS= 1.

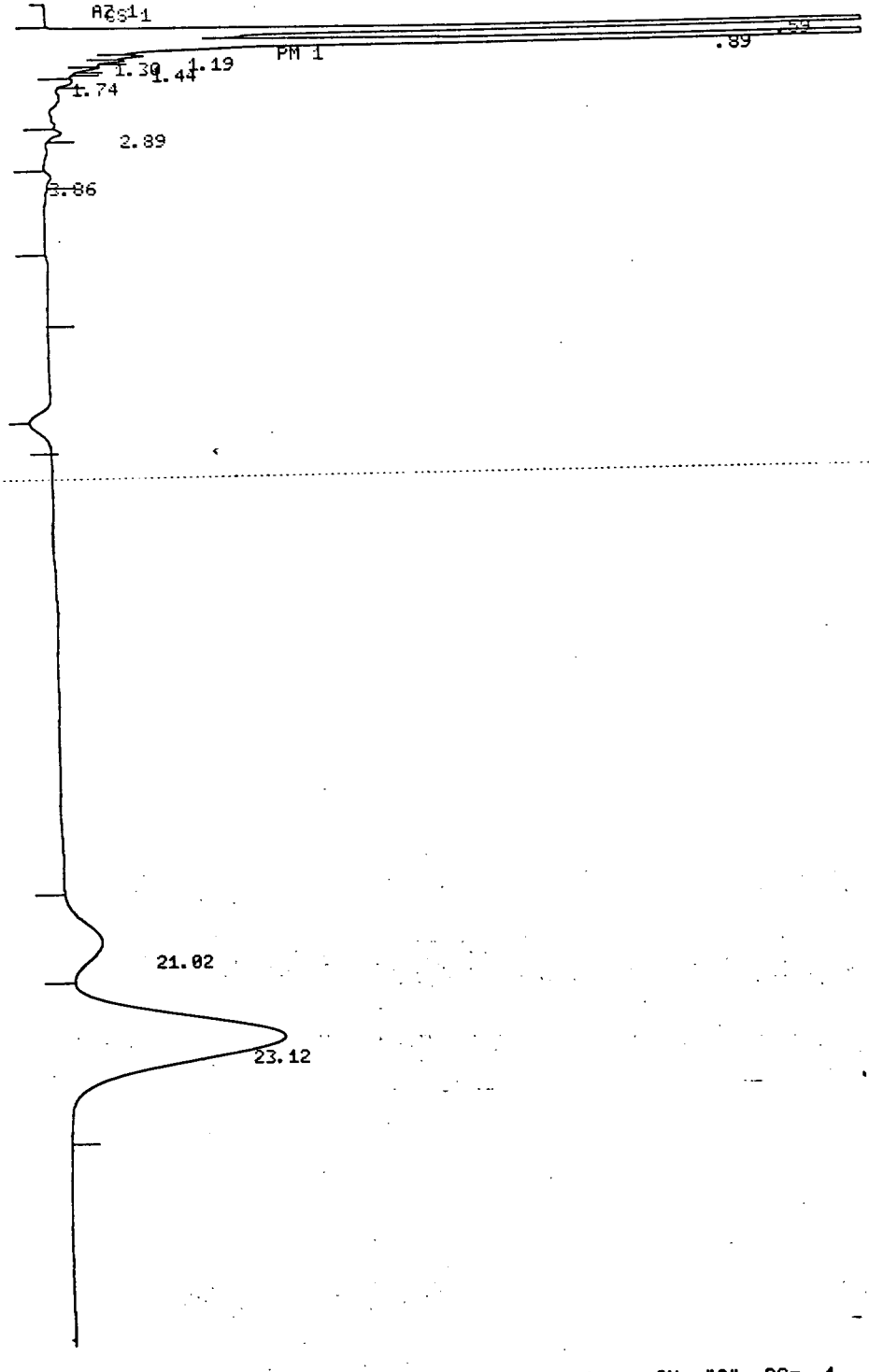
FILE 1. METHOD 0. RUN 274 INDEX 274

PEAK#	AREA%	RT	AREA BC
1	82.64	0.72	692561 02
2	0.904	3.3	7576 02
3	1.198	3.81	10037 02
4	0.41	4.41	3435 03
5	0.479	7.53	4018 02
6	0.383	8.21	3208 03
7	0.128	11.23	1072 01
8	0.336	20.24	2820 02
9	1.602	20.91	13425 02
10	11.92	23.04	99896 03
TOTAL	100.		838048

577

14558-10 SIGMA 300 8/28/87 AT= 4

CHANNEL A INJECT 08/28/87 08:29:52

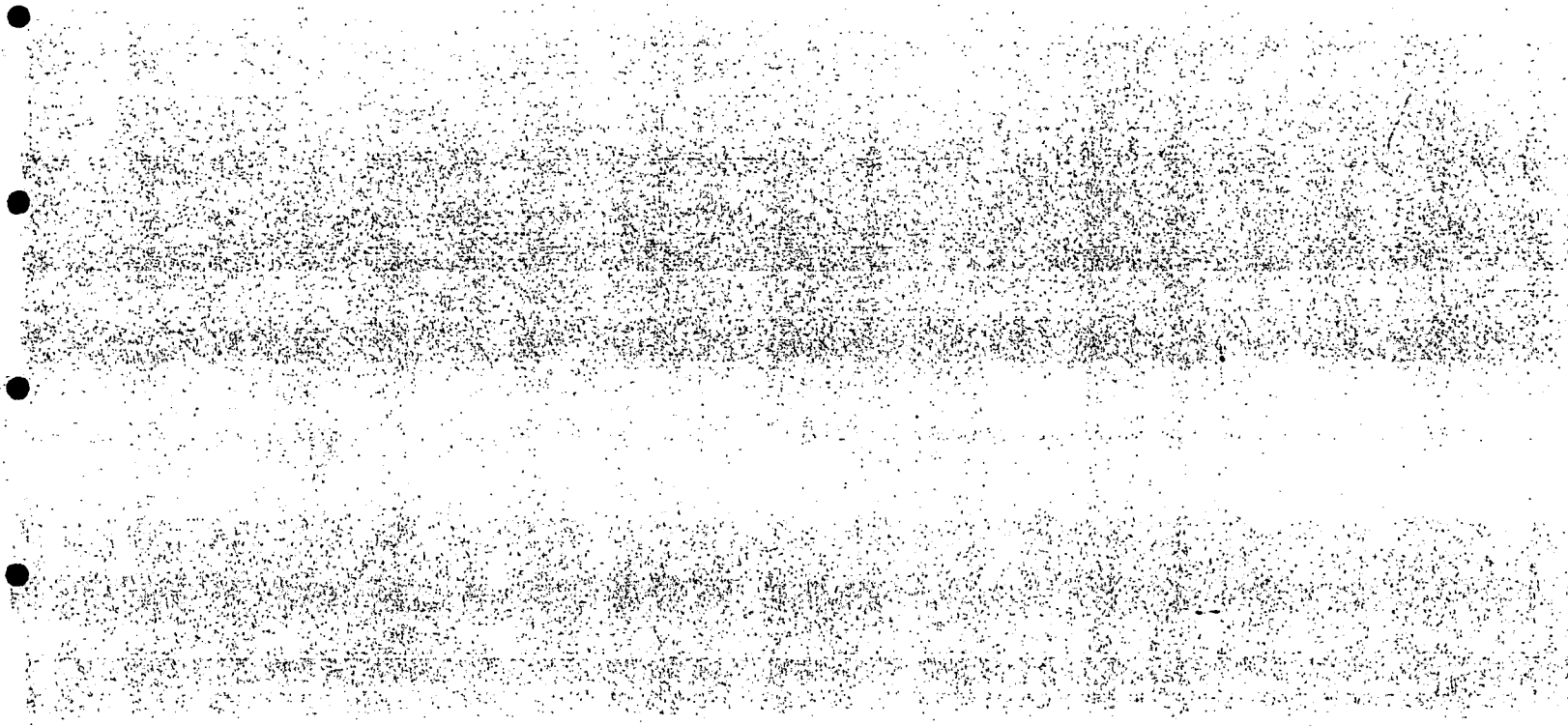


08/28/87 08:29:52 CH= "A" PS= 1.

FILE 1. METHOD 0. RUN 272 INDEX 272

PEAK#	AREA%	RT	AREA BC
1	12.018	0.59	99709 02
2	68.264	0.89	566370 08
3	0.088	1.19	733 06
4	0.068	1.3	564 07
5	0.029	1.44	242 05
6	0.067	1.74	552 01
7	0.088	2.89	730 01
8	0.063	3.86	523 01
9	2.403	21.02	19934 02
10	16.913	23.12	140320 03

GC CONFIRMATION CHROMATOGRAMS



Channel #.....3 Time:19:36:58 Date:MON 31 AUG 87
Run #1

Sample name.....14558-5
Data file.....4:A4558004
Method name.....CONFIRM

Author.....PALMER
Instrument.....2065-81
Column.....10% SP2100
Notes.....

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....19:06:39 Acq. date....MON 31 AUG 87
Start PW.....10.00 sec. End PW.....30.00 sec.
Slope sens.....5.00 uv/sec.

Area reject....0
peaks found..30

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.375			56.703	11198506	1041193	BB
2	0.682			0.028	5482	1925	BB
3	0.877			0.004	816	478	BB
4	1.090			0.061	12026	2764	BB
5	1.263			0.006	1172	328	BB
6	1.421			0.033	6496	1613	BB
7	1.532			0.007	1328	427	BB
8	1.887			0.066	13018	1101	BB
9	2.438			2.684	530125	60599	BB
10	3.062			0.472	93287	7526	BB
11	3.386			0.345	68046	7193	BB
12	3.702			0.039	7715	952	BB
13	4.141			0.324	63985	3900	BB
14	4.578			0.327	64558	5573	BB
15	4.891			0.088	17309	1983	BB
16	5.552			0.449	88640	5210	BB
17	5.860			1.759	347364	21248	BB
18	6.705			1.750	345597	11309	BB
19	7.758			0.311	61415	1976	BB
20	8.099			0.736	145436	7702	BB
21	8.807			0.118	23328	1159	BB
22	9.471			2.427	479360	17103	BB
23	10.932			3.497	690609	20850	BB
24	12.276			6.674	1318079	25236	BB
25	14.267			4.303	849759	11866	BB
26	16.235			4.684	925103	10881	BB
27	19.276			5.836	1152592	18974	BB
28	22.440			3.803	751078	9991	BB

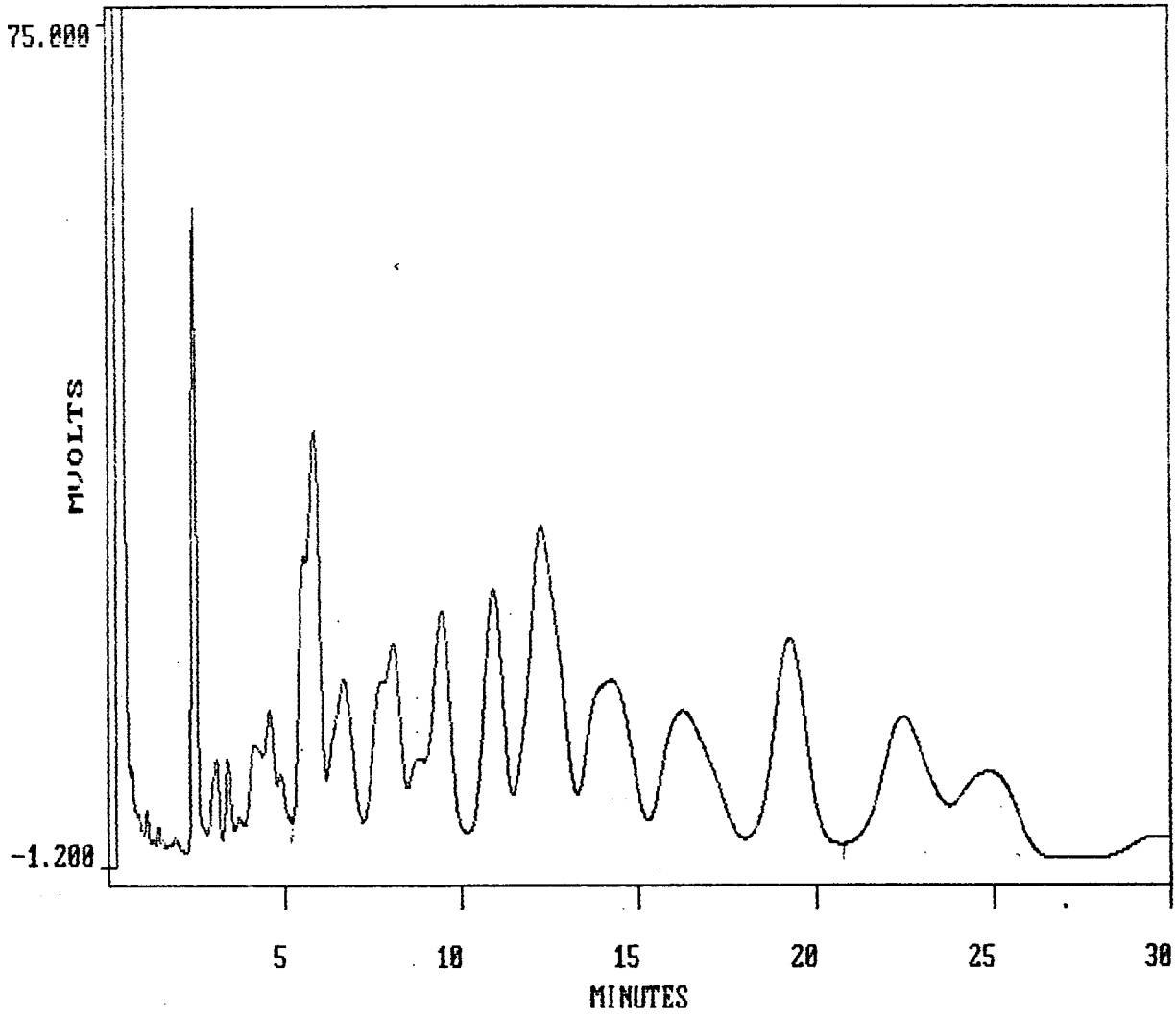
29	24.896	2.283	450905	5238	BB
30	29.568	0.183	36212	597	BB
TOTALS		100.000	19749346		

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:20:15:07 Date:MON 31 AUG 87

Time:19:06:39 Date:MON 31 AUG 87
Method:CONFIRM

FILE: A4558004 RANGE (MIN.): 0.017 TO 30.000



Channel #.....3 Time:20:08:25 Date:MON 31 AUG 87
Run #1

NOT USED

Sample name.....14558-6 10:1
Data file.....4:A4558005
Method name.....CONFIRM

Author.....PALMER
Instrument.....2065-81
Column.....10% SP2100
Notes.....
10:1 DIL

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....19:38:06 Acq. date....MON 31 AUG 87
Start PW.....10.00 sec. End PW.....30.00 sec.
Slope sens.....5.00 uv/sec.

Area reject....0
peaks found..24

AREA PERCENT REPORT

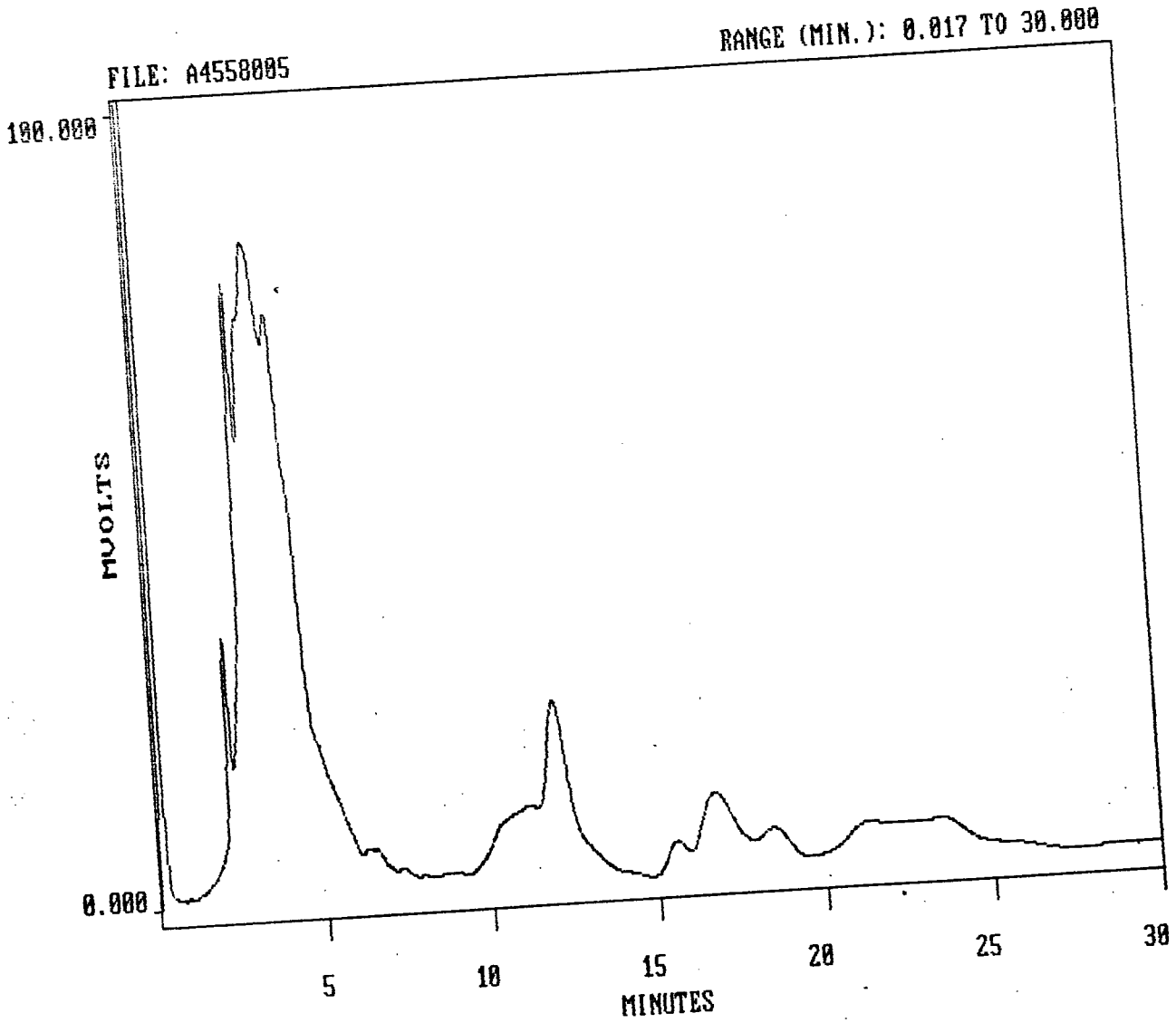
Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.153			60.526	4110351	661279	BB
2	0.634			0.008	552	204	BB
3	0.719			0.003	225	102	BB
4	0.830			0.011	744	246	BB
5	0.920			0.016	1055	239	BB
6	2.284			2.380	161606	21325	BB
7	2.927			4.386	297851	31989	BB
8	3.255			0.583	39596	2299	BB
9	3.581			3.650	247853	11466	BB
10	4.135			5.155	350113	13202	BB
11	6.325			0.086	5815	485	BB
12	6.560			0.097	6585	517	BB
13	7.306			0.144	9763	626	BB
14	7.914			0.019	1307	104	BB
15	8.612			0.039	2640	140	BB
16	11.265			2.430	165006	1230	BB
17	12.080			8.914	605332	16201	BB
18	15.608			1.189	80733	2538	BB
19	16.792			5.873	398843	7180	BB
20	18.470			1.646	111779	2449	BB
21	21.354			1.407	95555	1473	BB
22	22.183			0.044	2970	84	BB
23	23.510			1.255	85229	1474	BB
24	28.625			0.141	9557	174	BB
TOTALS				100.000	6791060		

NOT USED

Time:20:17:40 Date:MON 31 AUG 87

RECONSTRUCT SCREEN DUMP
Data Acquisition

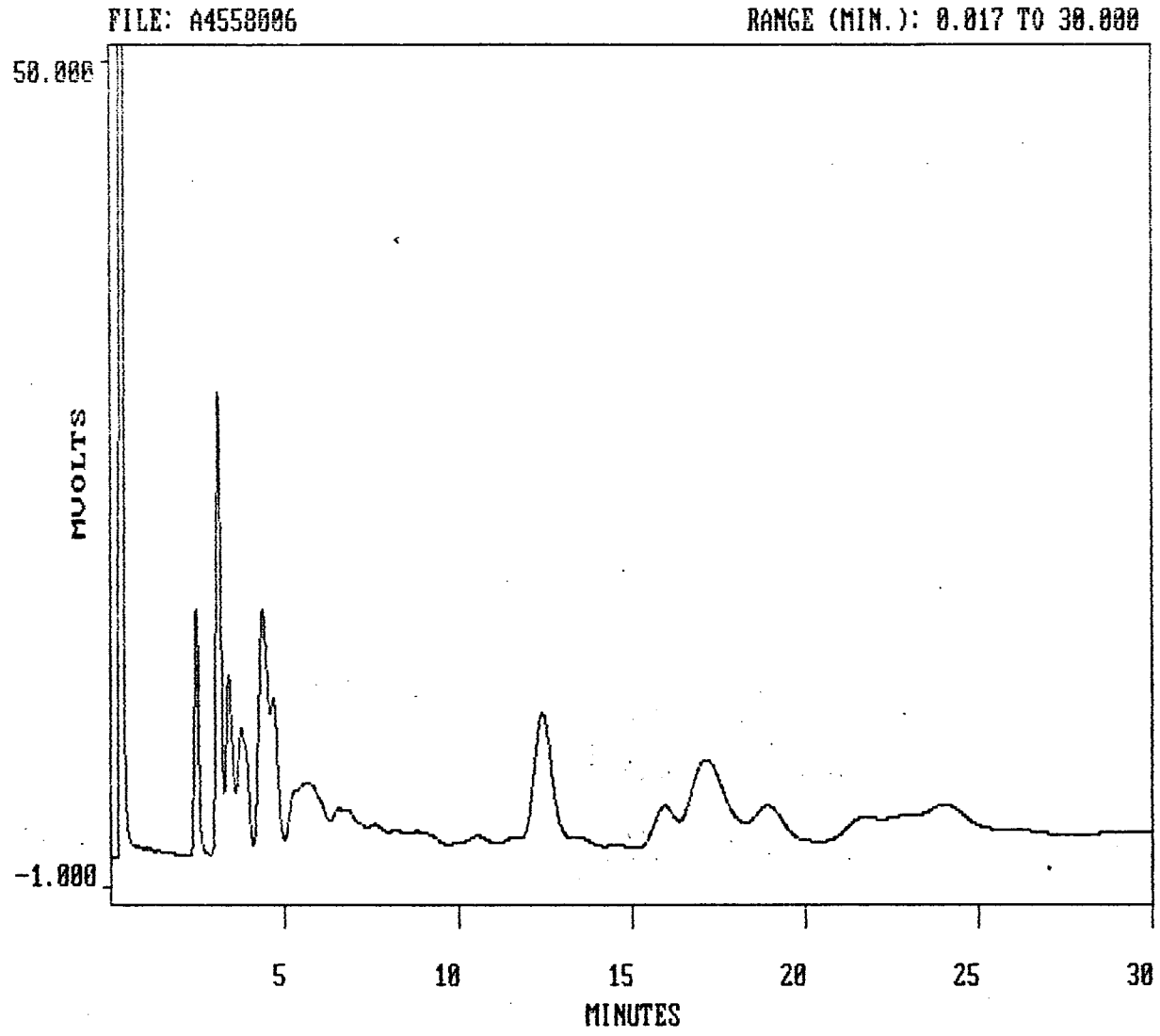
Time:19:38:06 Date:MON 31 AUG 87
Method:CONFIRM



RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:10:02:56 Date:TUE 01 SEP 87

Time:09:11:10 Date:TUE 01 SEP 87
Method:CONFIRM



Channel #.....3 Time:09:41:27 Date:TUE 01 SEP 87
Run #1

Sample name.....14558-6 10:1
Data file.....4:A4553006
Method name.....CONFIRM

Author.....PALMER
Instrument.....2065-81
Column.....10% SP2100
Notes.....
10:1 DIL

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....09:11:10 Acq. date....TUE 01 SEP 87
Start PW.....10.00 sec. End PW.....30.00 sec.
Slope sens.....5.00 uv/sec.

Area reject....0
peaks found..28

AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.327			67.517	3524159	610840	BB
2	0.810			0.008	411	145	BB
3	0.896			0.004	216	107	BB
4	1.005			0.010	529	188	BB
5	1.092			0.012	639	163	BB
6	1.374			0.014	705	137	BB
7	1.721			0.020	1032	90	BB
8	2.477			2.509	130959	15982	BB
9	3.120			4.897	255611	27711	BB
10	3.416			1.326	69197	7517	BB
11	3.769			1.719	89714	5195	BB
12	4.403			2.819	147144	10228	BB
13	4.697			0.607	31679	3053	BB
14	5.605			3.027	158014	3144	BB
15	6.570			0.120	6283	439	BB
16	6.819			0.044	2297	187	BB
17	7.580			0.115	6023	367	BB
18	8.216			0.045	2355	160	BB
19	8.777			0.275	14367	313	BB
20	10.550			0.311	16224	480	BB
21	11.588			0.068	3528	177	BB
22	12.416			5.150	268793	7943	BB
23	15.955			1.054	55039	1634	BB
24	17.143			4.202	219333	4005	BB
25	18.928			1.339	69882	1521	BB
26	21.713			0.609	31768	619	BB
27	24.062			2.020	105446	1316	BB
28	29.242			0.159	8325	120	BB

TOTALS	100.000	5219672

Channel #.....3 Time:17:54:41 Date:MON 31 AUG 87
Run #1

Sample name.....1260 MED STD
Data file.....4:A4558001
Method name.....CONFIRM

Author.....PALMER
Instrument.....2065-81
Column.....10% SP2100
Notes.....
1472-205I

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....17:24:24 Acq. date....MON 31 AUG 87
Start PW.....10.00 sec. End PW.....20.00 sec.
Slope sens.....5.00 uv/sec.

Area reject....0
peaks found..23

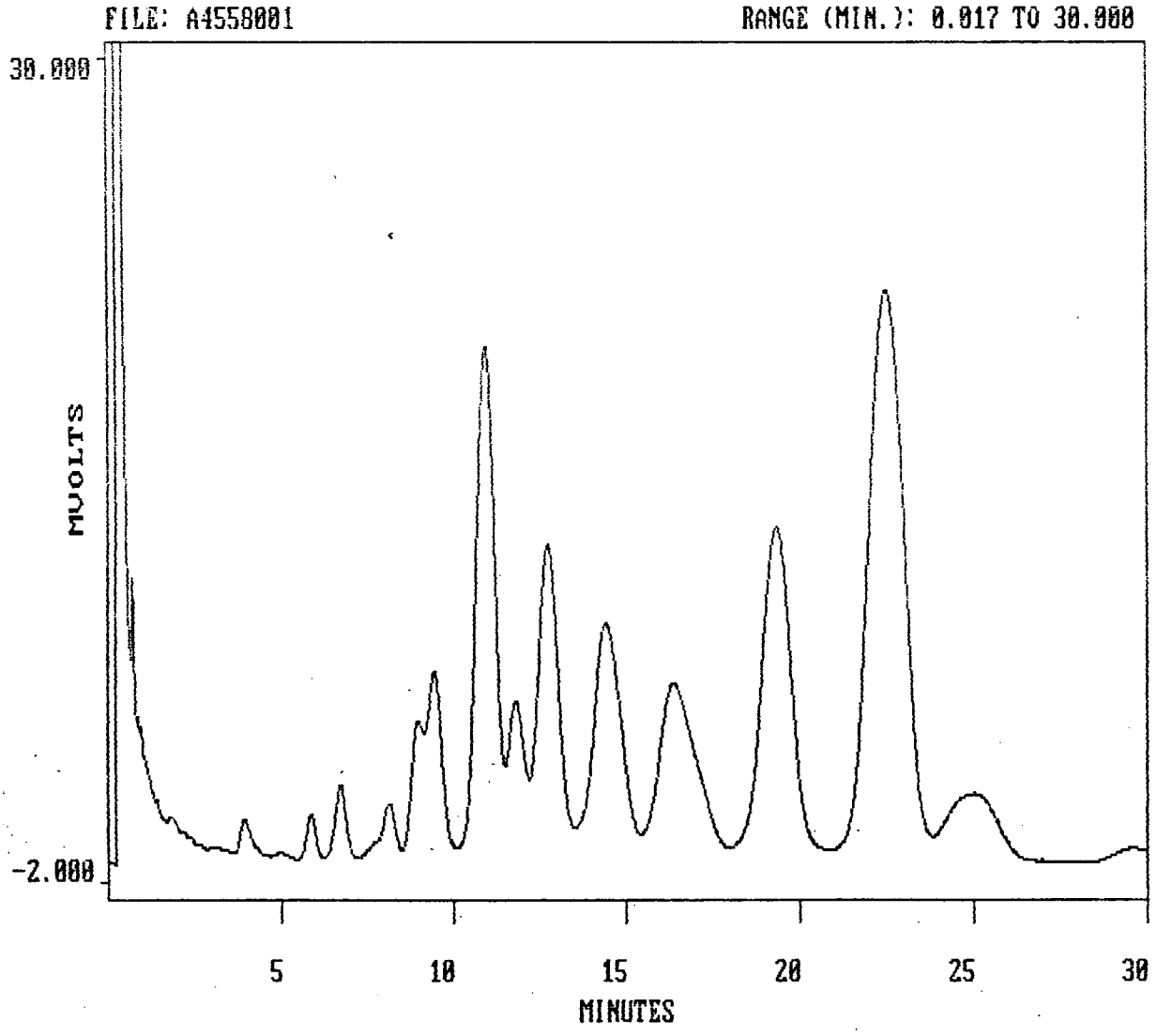
AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.358			68.374	10119090	1042258	BB
2	0.727			0.081	12024	4079	BB
3	0.964			0.007	1095	524	BB
4	1.419			0.007	1043	285	BB
5	1.817			0.028	4178	333	BB
6	2.369			0.004	617	120	BB
7	3.025			0.011	1629	106	BB
8	3.928			0.194	28749	1366	BB
9	4.972			0.025	3690	178	BB
10	5.854			0.207	30628	1775	BB
11	6.700			0.424	62769	2965	BB
12	8.123			0.374	55297	1964	BB
13	8.969			0.281	41617	2046	BB
14	9.461			0.602	89044	4222	BB
15	10.940			4.235	626710	18459	BB
16	11.808			0.412	61012	2879	BB
17	12.744			2.429	359439	10402	BB
18	14.433			2.820	417302	8383	BB
19	16.386			2.851	421962	6289	BB
20	19.355			4.990	738456	13011	BB
21	22.490			10.328	1528552	22473	BB
22	25.013			1.235	182755	2142	BB
23	29.620			0.080	11901	225	BB
TOTALS				100.000	14799559		

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:18:55:18 Date:MON 31 AUG 87

Time:17:24:24 Date:MON 31 AUG 87
Method:CONFIRM



Channel #.....3 Time:18:29:22 Date:MON 31 AUG 87
Run #1

Sample name.....MIX A MED STD
Data file.....4:A4558002
Method name.....CONFIRM

Author.....PALMER
Instrument.....2065-81
Column.....10% SP2100
Notes.....
1495-59A

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....17:59:06 Acq. date....MON 31 AUG 87
Start PW.....10.00 sec. End PW.....30.00 sec.
Slope sens.....5.00 uv/sec.

Area reject....0
peaks found..16

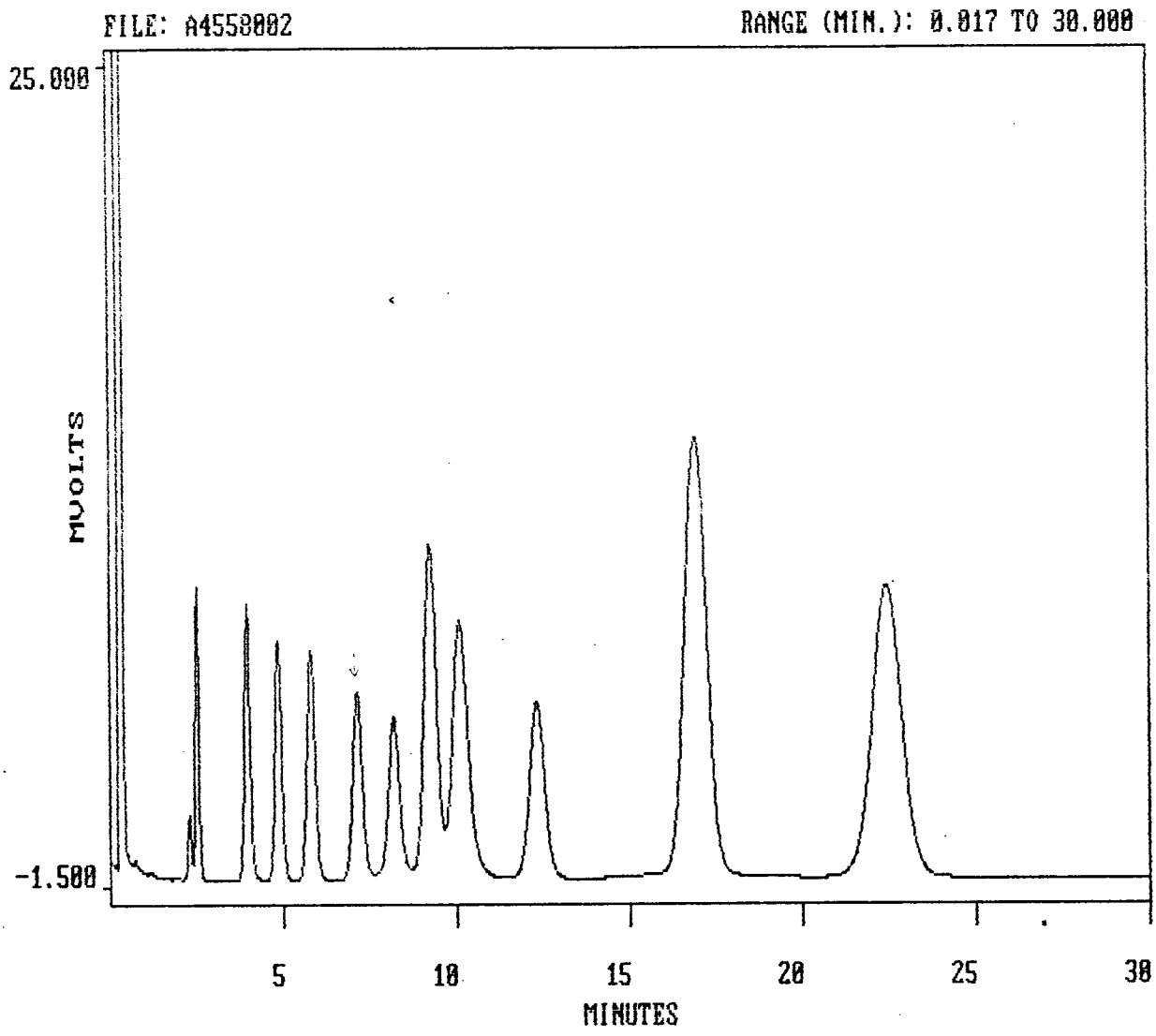
AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.335			66.066	4886121	869870	BB
2	0.739			0.010	761	186	BB
3	1.179			0.009	697	105	BB
4	1.936			0.004	282	38	BB
5	2.301			0.142	10519	1792	BB
6	2.525			0.849	62825	9694	BB
7	3.972			1.393	103052	9293	BB
8	4.870			1.419	104960	8081	BB
9	5.808			1.629	120466	7789	BB
10	7.136			1.561	115480	6185	BB
11	8.195			1.502	111085	5201	BB
12	9.257			3.163	233929	10198	BB
13	10.103			2.843	210288	7557	BB
14	12.318			2.412	178376	5921	BB
15	16.941			9.056	669749	14758	BB
16	22.454			7.940	587248	9816	BB
TOTALS				100.000	7395838		

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:18:57:49 Date:MON 31 AUG 87

Time:17:59:06 Date:MON 31 AUG 87
Method:CONFIRM



Channel #.....3 Time:19:04:08 Date:MON 31 AUG 87
Run #1

Sample name.....MIX B MED STD
Data file.....4:A4558003
Method name.....CONFIRM

Author.....PALMER
Instrument.....2065-81
Column.....10% SP2100
Notes.....
1495-59E

Run time.....30.00 min.
Acq. time.....18:33:37
Start PW.....10.00 sec.
Slope sens.....5.00 uv/sec.

Delay time...0.00 min.
Acq. date....MON 31 AUG 87
End PW.....30.00 sec.

Area reject....0
peaks found..19

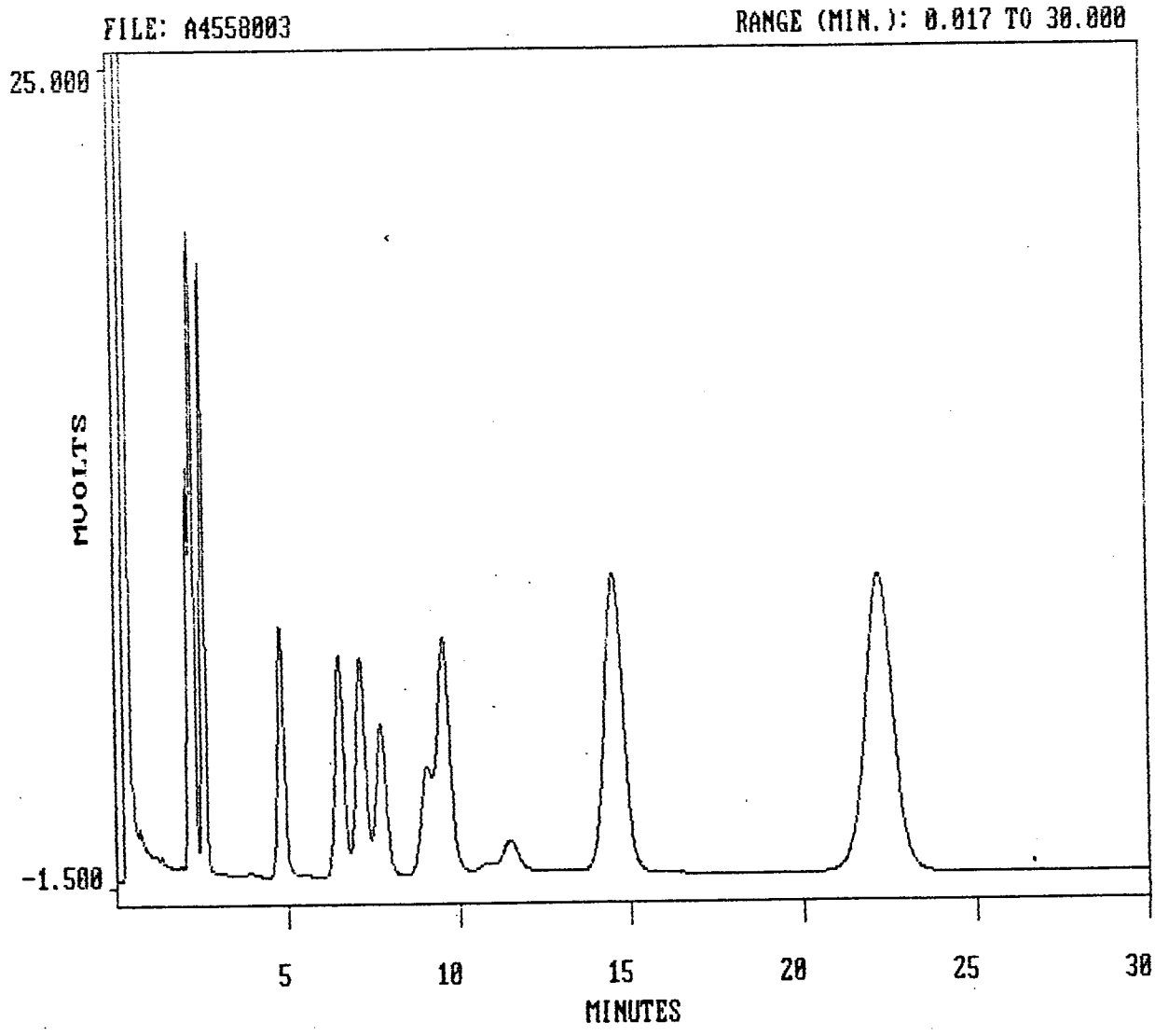
AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.
1	0.342			80.703	7457796	1048780
2	0.716			0.014	1317	362
3	1.149			0.006	555	105
4	1.324			0.007	638	166
5	1.898			0.005	483	80
6	2.137			0.349	32285	6201
7	2.270			0.968	89482	14829
8	2.568			1.601	147954	20257
9	3.905			0.012	1149	9
10	4.822			1.208	111661	841
11	6.518			1.233	113921	695
12	7.137			1.151	106345	639
13	7.726			0.817	75491	433
14	9.078			0.239	22103	123
15	9.570			1.313	121368	591
16	10.825			0.020	1846	8
17	11.479			0.263	24314	88
18	14.556			4.051	374340	99
19	22.236			6.038	557993	100
TOTALS				100.000	9241041	

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:20:12:49 Date:MON 31 AUG 87

Time:18:33:37 Date:MON 31 AUG 87
Method:CONFIRM



Channel #.....3 Time:11:48:18 Date:THU 03 SEP 87
Run #1

Sample name.....MIX B MED
Data file.....4:A4558007
Method name.....CONFIRM

Author.....PALMER
Instrument.....2065-81
Column.....10% SP2100
Notes.....

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....11:18:02 Acq. date....THU 03 SEP 87
Start PW.....10.00 sec. End PW.....30.00 sec.
Slope sens.....5.00 uv/sec.

Area reject....0
peaks found..18

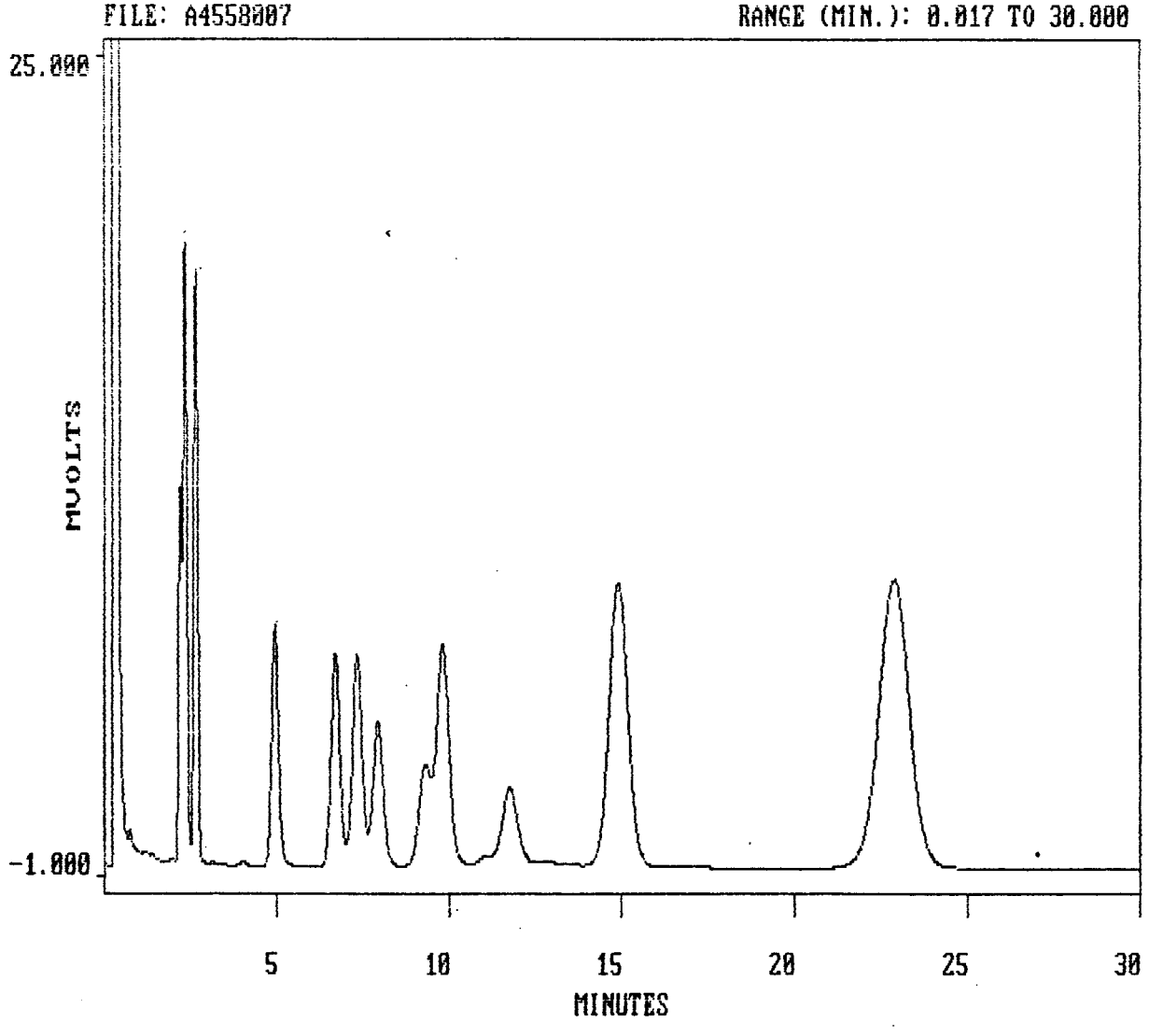
AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.375			82.029	8336014	1044168	BB
2	0.752			0.015	1573	401	BB
3	1.195			0.009	914	130	BB
4	1.378			0.006	614	123	BB
5	1.969			0.005	499	84	BB
6	2.209			0.323	32803	6119	BB
7	2.346			0.833	84623	13999	BB
8	2.651			1.412	143540	19308	BB
9	4.022			0.015	1508	129	BB
10	4.959			1.065	108242	7966	BB
11	6.692			1.085	110308	6640	BB
12	7.323			1.015	103136	6082	BB
13	7.930			0.727	73891	4126	BB
14	9.311			0.231	23430	1270	BB
15	9.816			1.126	114420	5498	BB
16	11.771			0.794	80687	2465	BB
17	14.927			3.526	358306	9383	BB
18	22.901			5.784	587735	9529	BB
TOTALS				100.000	10162243		

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:14:47:20 Date:THU 03 SEP 87

Time:11:18:02 Date:THU 03 SEP 87
Method:CONFIRM



Channel #.....3 Time:14:31:17 Date:THU 03 SEP 87
Run #1

Sample name.....14558-1
Data file.....4:A4558009
Method name.....CONFIRM

Author.....PALMER
Instrument.....2065-81
Column.....10% SP2100
Notes.....

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....13:59:59 Acq. date....THU 03 SEP 87
Start PW.....10.00 sec. End PW.....30.00 sec.
Slope sens.....5.00 uv/sec.

Area reject....0
peaks found..29

AREA PERCENT REPORT

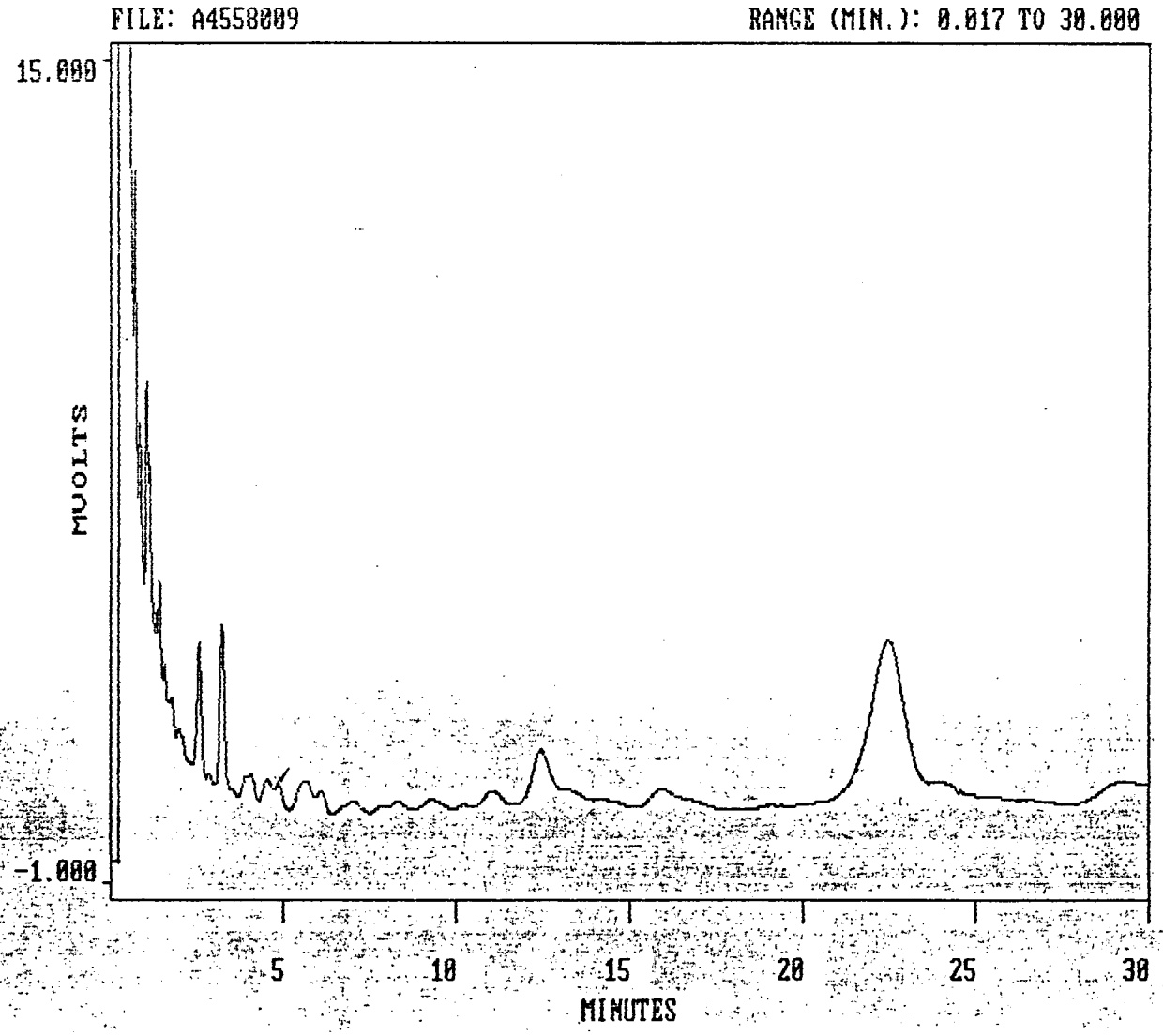
Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.392			95.715	10049872	1041182	BB
2	0.716			0.115	12037	4561	BB
3	0.840			0.071	7495	1941	BB
4	1.047			0.291	30601	4389	BB
5	1.323			0.010	1079	421	BB
6	1.422			0.050	5268	1414	BB
7	1.572			0.017	1805	508	BB
8	1.784			0.026	2701	462	BB
9	1.997			0.025	2636	275	BB
10	2.570			0.212	22211	2621	BB
11	2.870			0.009	948	151	BB
12	3.241			0.303	31796	3346	BB
13	4.067			0.075	7874	441	BB
14	4.547			0.043	4464	327	BB
15	4.871			0.025	2607	232	BB
16	5.650			0.101	10597	422	BB
17	6.113			0.030	3142	238	BB
18	7.042			0.080	8435	266	BB
19	7.858			0.010	1099	62	BB
20	8.352			0.024	2558	137	BB
21	9.306			0.044	4608	164	BB
22	10.253			0.008	850	54	BB
23	11.053			0.084	8826	299	BB
24	12.464			0.298	31243	946	BB
25	15.946			0.250	26272	390	BB
26	19.128			0.021	2188	48	BB
27	22.480			1.907	200233	3021	BB
28	23.950			0.027	2875	69	BB

29	29.382	0.128	13435	177	88
TOTALS		100.000	10499755		

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:14:52:18 Date:THU 03 SEP 87

Time:13:59:59 Date:THU 03 SEP 87
Method:CONFIRM



Channel #.....3 Time:15:47:38 Date:THU 03 SEP 87
Run #1

Sample name.....14558-2
Data file.....4:A4558011
Method name.....CONFIRM

Author.....PALMER
Instrument.....2065-81
Column.....10% SP2100
Notes.....

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....15:17:15 Acq. date....THU 03 SEP 87
Start PW.....10.00 sec. End PW.....30.00 sec.
Slope sens.....5.00 uv/sec.

Area reject....0
peaks found..9

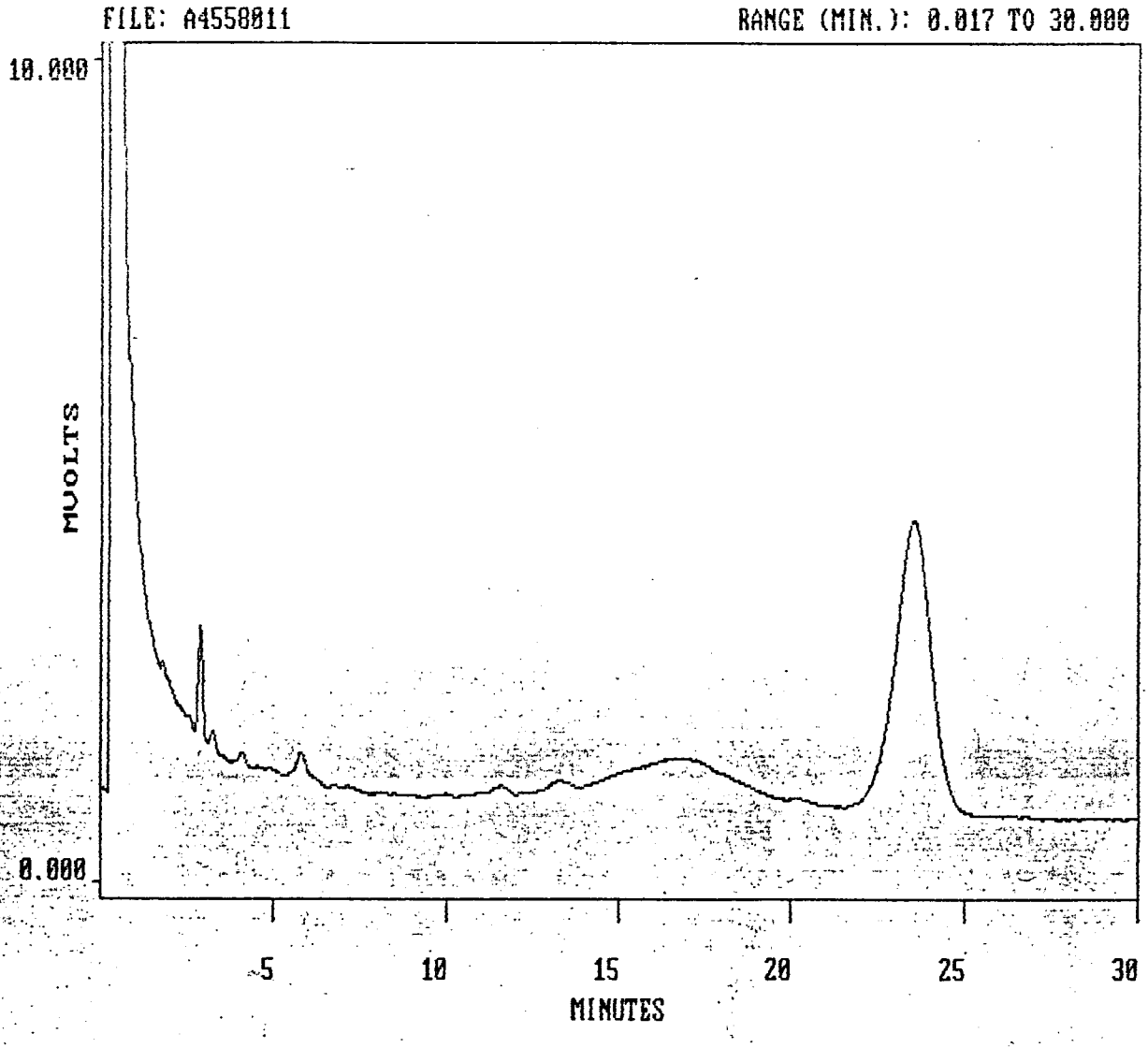
AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.408			97.121	10515615	1041818	BB
2	1.807			0.016	1718	170	BB
3	2.892			0.104	11282	1366	BB
4	3.253			0.007	744	119	BB
5	4.125			0.013	1455	134	BB
6	5.806			0.078	8445	349	BB
7	13.283			0.011	1198	56	BB
8	16.850			0.205	22187	217	BB
9	23.540			2.444	264668	3670	BB
TOTALS				100.000	10827312		

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:16:22:36 Date:THU 03 SEP 87

Time:15:17:15 Date:THU 03 SEP 87
Method:CONFIRM



600

Channel #.....3 Time:13:43:39 Date:THU 03 SEP 87
Run #1

Sample name.....14558-4
Data file.....4:A4558008
Method name.....CONFIRM

Author.....PALMER
Instrument.....2065-81
Column.....10% SP2100
Notes.....

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....13:13:21 Acq. date....THU 03 SEP 87
Start PW.....10.00 sec. End PW.....30.00 sec.
Slope sens.....5.00 uv/sec.

Area reject....0
peaks found..29

AREA PERCENT REPORT

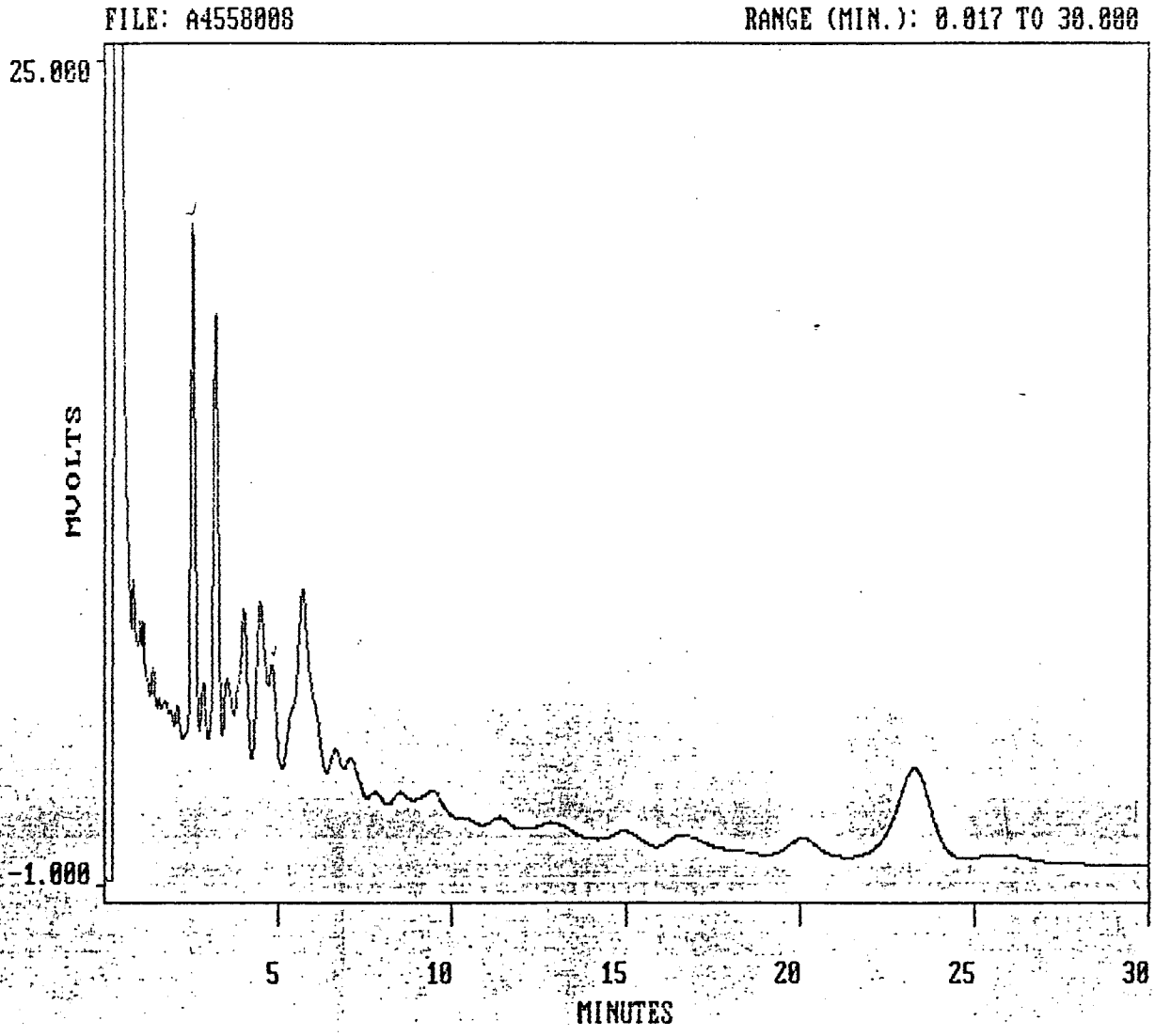
Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.381			89.090	7950906	978946	BB
2	0.836			0.075	6649	1780	BB
3	1.034			0.024	2134	808	BB
4	1.122			0.041	3618	1168	BB
5	1.413			0.060	5350	1115	BB
6	1.577			0.014	1249	350	BB
7	1.765			0.023	2018	305	BB
8	1.912			0.015	1342	273	BB
9	2.111			0.057	5089	838	BB
10	2.552			1.564	139587	16879	BB
11	2.854			0.120	10748	1614	BB
12	3.212			1.456	129932	14016	BB
13	3.533			0.195	17377	1579	BB
14	4.026			0.624	55703	4263	BB
15	4.494			0.598	53347	3900	BB
16	4.832			0.169	15111	1515	BB
17	5.728			1.907	170149	5768	BB
18	6.666			0.116	10336	698	BB
19	7.101			0.136	12123	625	BB
20	7.813			0.035	3079	207	BB
21	8.533			0.079	7075	339	BB
22	9.456			0.211	18798	595	BB
23	11.382			0.085	7568	284	BB
24	12.847			0.116	10353	234	BB
25	14.939			0.152	13557	322	BB
26	16.644			0.295	26288	421	BB
27	20.078			0.361	32250	579	BB
28	23.278			2.241	200029	2906	BB

29	25.650	0.144	12859	137	BB
TOTALS		100.000	8924624		

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:14:49:59 Date:THU 03 SEP 87

Time:13:13:21 Date:THU 03 SEP 87
Method:CONFIRM



Channel #.....3 Time:15:13:02 Date:THU 03 SEP 87
Run #1

Sample name.....14558-7
Data file.....4:A4558010
Method name.....CONFIRM

Author.....PALMER
Instrument.....2065-81
Column.....10% SP2100
Notes.....

Run time.....30.00 min. Delay time...0.00 min.
Acq. time.....14:42:22 Acq. date....THU 03 SEP 87
Start PW.....10.00 sec. End PW.....30.00 sec.
Slope sens.....5.00 uv/sec.

Area reject....0
peaks found..24

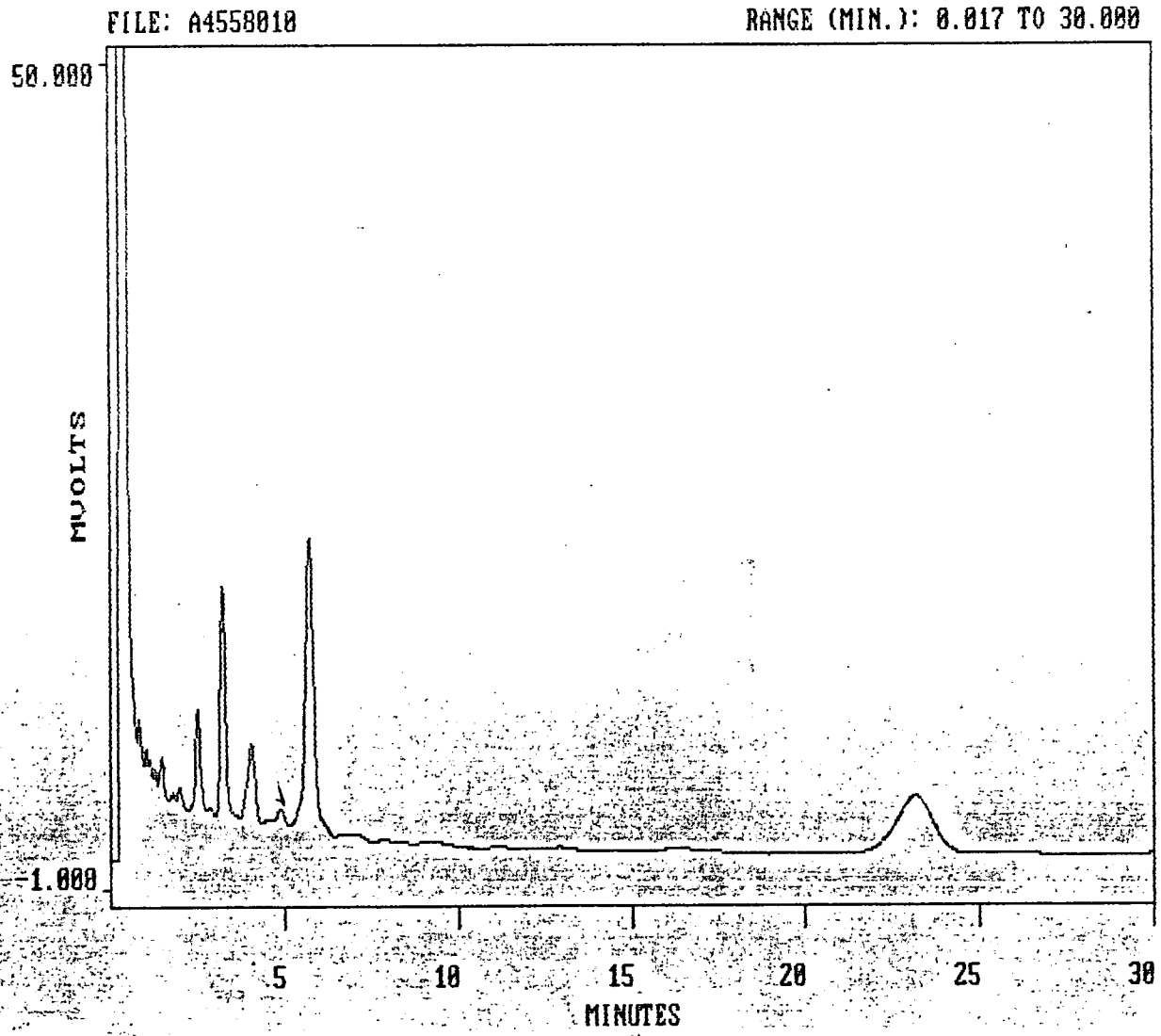
AREA PERCENT REPORT

Peak	R.T.(min)	R/S	Peak name	Area %	Area	Peak Ht.	BL
1	0.355			87.883	6965689	843012	BB
2	0.840			0.104	8239	1824	BB
3	1.047			0.035	2789	936	BB
4	1.139			0.024	1938	596	BB
5	1.276			0.031	2456	646	BB
6	1.482			0.167	13205	2119	BB
7	1.792			0.034	2681	495	BB
8	2.001			0.091	7219	1058	BB
9	2.521			0.716	56758	6285	BB
10	2.867			0.033	2600	385	BB
11	3.246			1.907	151162	14800	BB
12	4.069			0.887	70289	4787	BB
13	4.538			0.021	1688	162	BB
14	4.898			0.132	10476	838	BB
15	5.738			3.980	315445	18842	BB
16	6.683			0.019	1544	123	BB
17	7.048			0.032	2512	135	BB
18	7.842			0.039	3128	151	BB
19	9.319			0.126	9968	250	BB
20	11.136			0.039	3096	118	BB
21	12.917			0.058	4617	135	BB
22	16.367			0.144	11388	242	BB
23	19.777			0.017	1314	35	BB
24	23.177			3.481	275892	3692	BB
TOTALS				100.000	7926093		

RECONSTRUCT SCREEN DUMP
Data Acquisition

Time:15:35:53 Date:THU 03 SEP 87

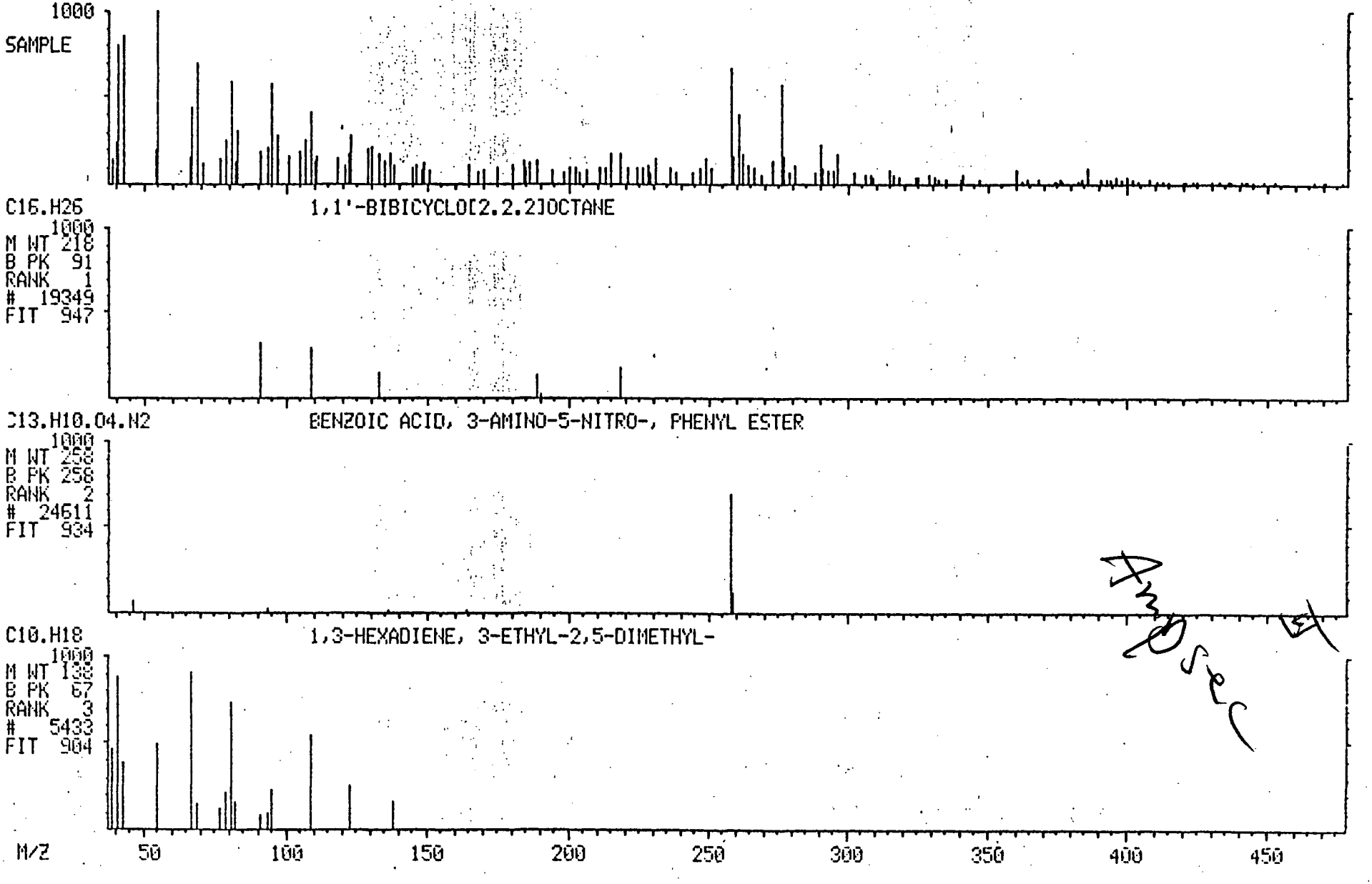
Time:14:42:22 Date:THU 03 SEP 87
Method:CONFIRM



MID LIBRARY SEARCH
08/25/87 19:58:00 + 36:34
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N1R #2283
CALI: 14558N1R # 2

BASE M/Z: 55
RIC: 450047.



MID Library Search Data: 14558N1R #2283 Base m/z: 55
08/25/87 19:58:00 + 36:34 Cali: 14558N1R # 2 RIC: 450047.
Sample: 14558-1
Conds.: 10.07GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

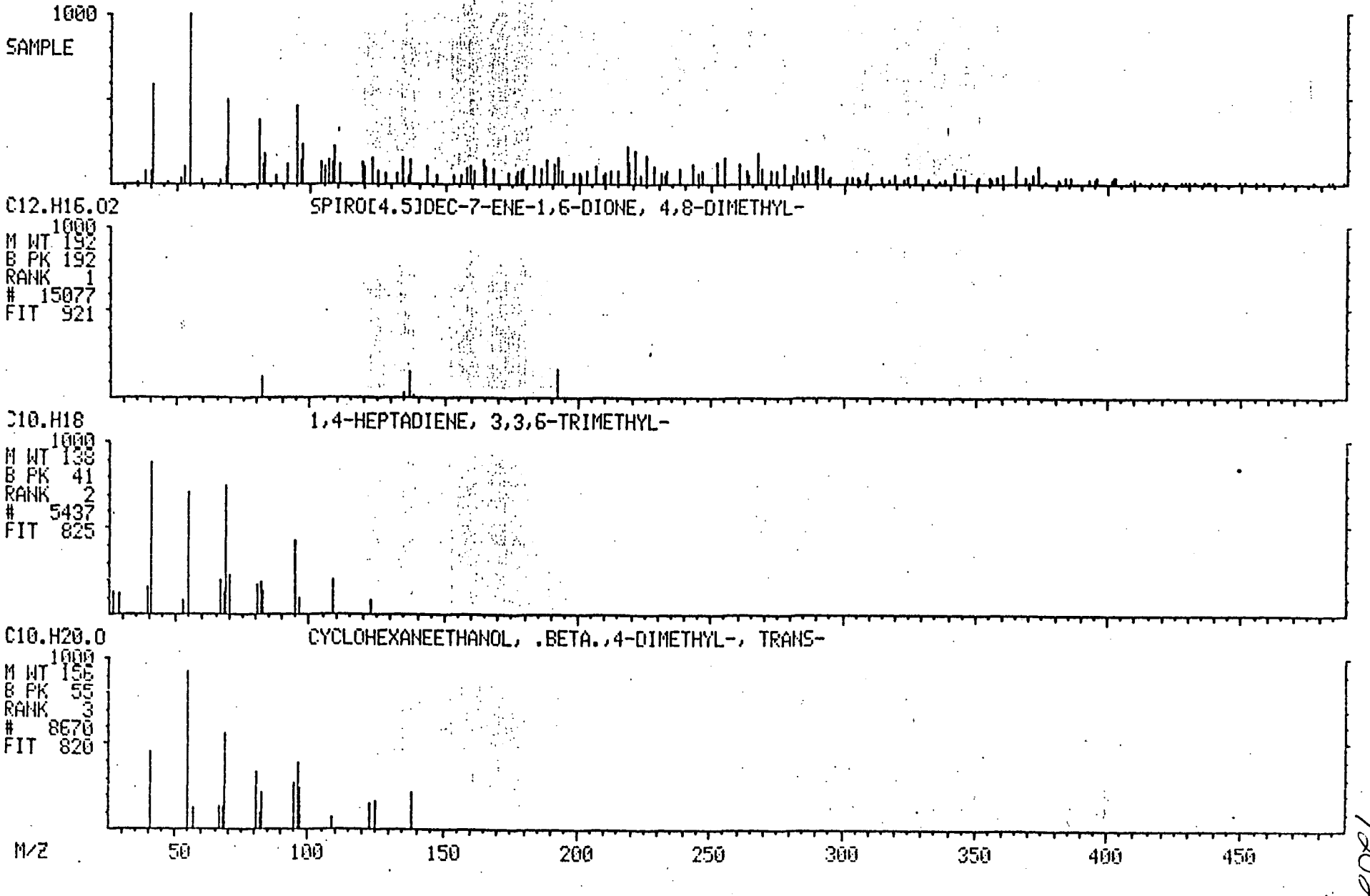
Rank	In.	Name
1	19349	1,1'-BIBICYCLO[2.2.2]OCTANE
2	24611	BENZOIC ACID, 3-AMINO-5-NITRO-, PHENYL ESTER
3	5433	1,3-HEXADIENE, 3-ETHYL-2,5-DIMETHYL-
4	5419	CYCLOPROPANE, 1,1,2-TRIMETHYL-3-(2-METHYL-1-PROPENYL)-
5	7890	1,4-UNDECADIENE, (Z)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H26	218	91	46	947	47
2	C13.H10.O4.N2	258	258	71	934	73
3	C10.H18	138	67	144	904	144
4	C10.H18	138	41	117	877	126
5	C11.H20	152	41	118	868	131

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	69576-82-5
2	———	———	———	———	55076-34-1
3	———	———	———	———	62338-07-2
4	———	———	———	———	54764-57-7
5	———	———	———	———	55976-14-2

MID LIBRARY SEARCH
08/25/87 19:58:00 + 36:43
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N1R #2293 BASE M/Z: 55
CALI: 14558N1R # 2 RIC: 274943.



1803

MID Library Search Data: 14558N1R #2293 Base m/z: 55
08/25/87 19:58:00 + 36:43 Cali: 14558N1R # 2 RIC: 274943.
Sample: 14558-1
Conds.: 10.07GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

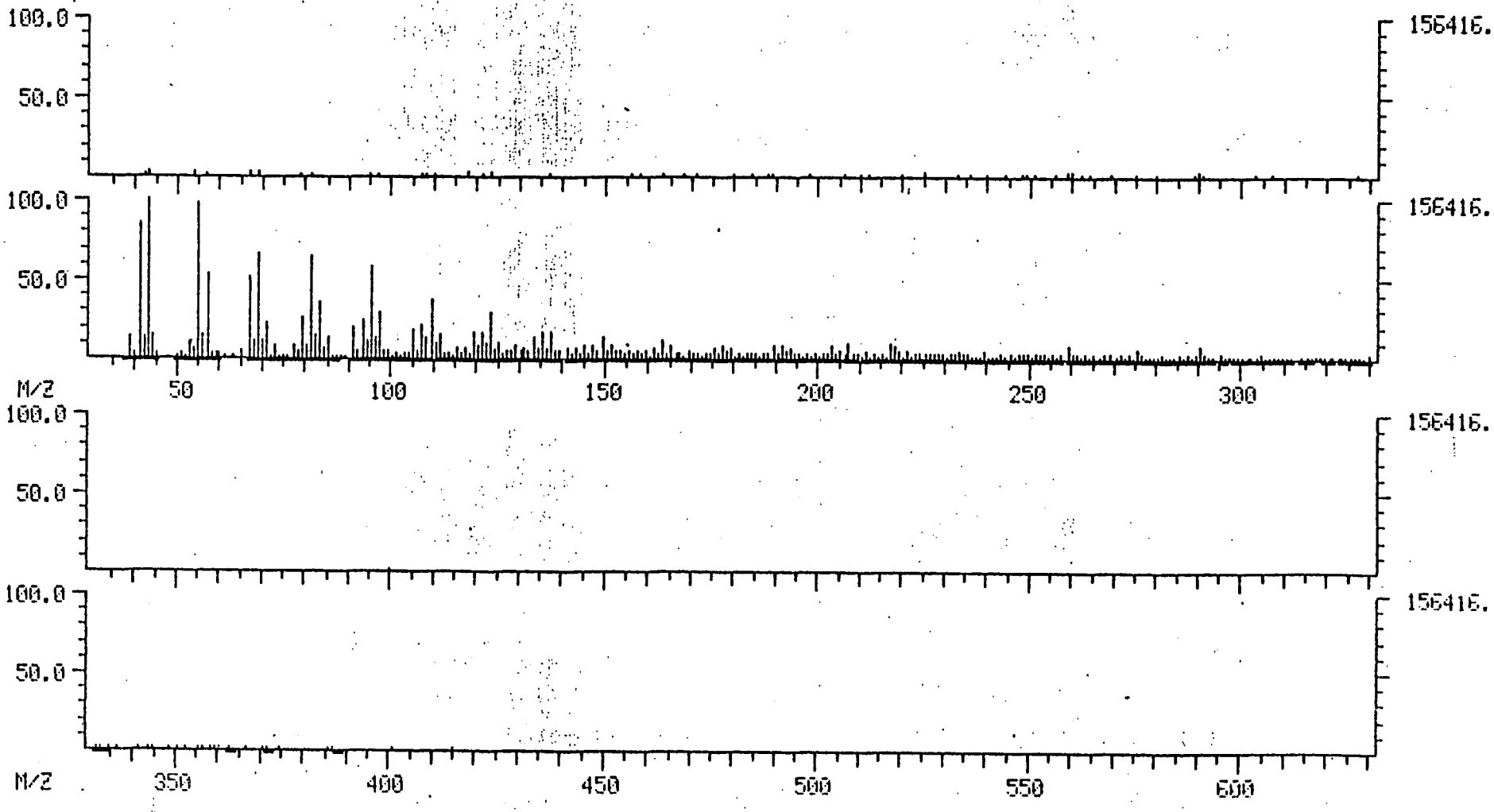
Rank	In.	Name
1	15077	SPIRO[4.5]DEC-7-ENE-1,6-DIONE, 4,8-DIMETHYL-
2	5437	1,4-HEPTADIENE, 3,3,6-TRIMETHYL-
3	8670	CYCLOHEXANEETHANOL, .BETA.,4-DIMETHYL-, TRANS-
4	15471	2(1H)-BENZOCYCLOOCTENONE, DECAHYDRO-4A-METHYL-, TRANS-(-)-
5	13165	1,6-DECADIENE, 2,6,9-TRIMETHYL-, (E)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H16.O2	192	192	23	921	25
2	C10.H18	138	41	97	825	113
3	C10.H20.O	156	55	106	820	122
4	C13.H22.O	194	55	108	787	131
5	C13.H24	180	41	84	786	95

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	69494-14-0
2	———	———	———	———	74498-89-8
3	———	———	———	———	5113-94-0
4	———	———	———	———	55103-66-7
5	———	———	———	———	69690-72-8

MID DUAL MASS SPECTRUM
08/25/87 19:58:00 + 38:13
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

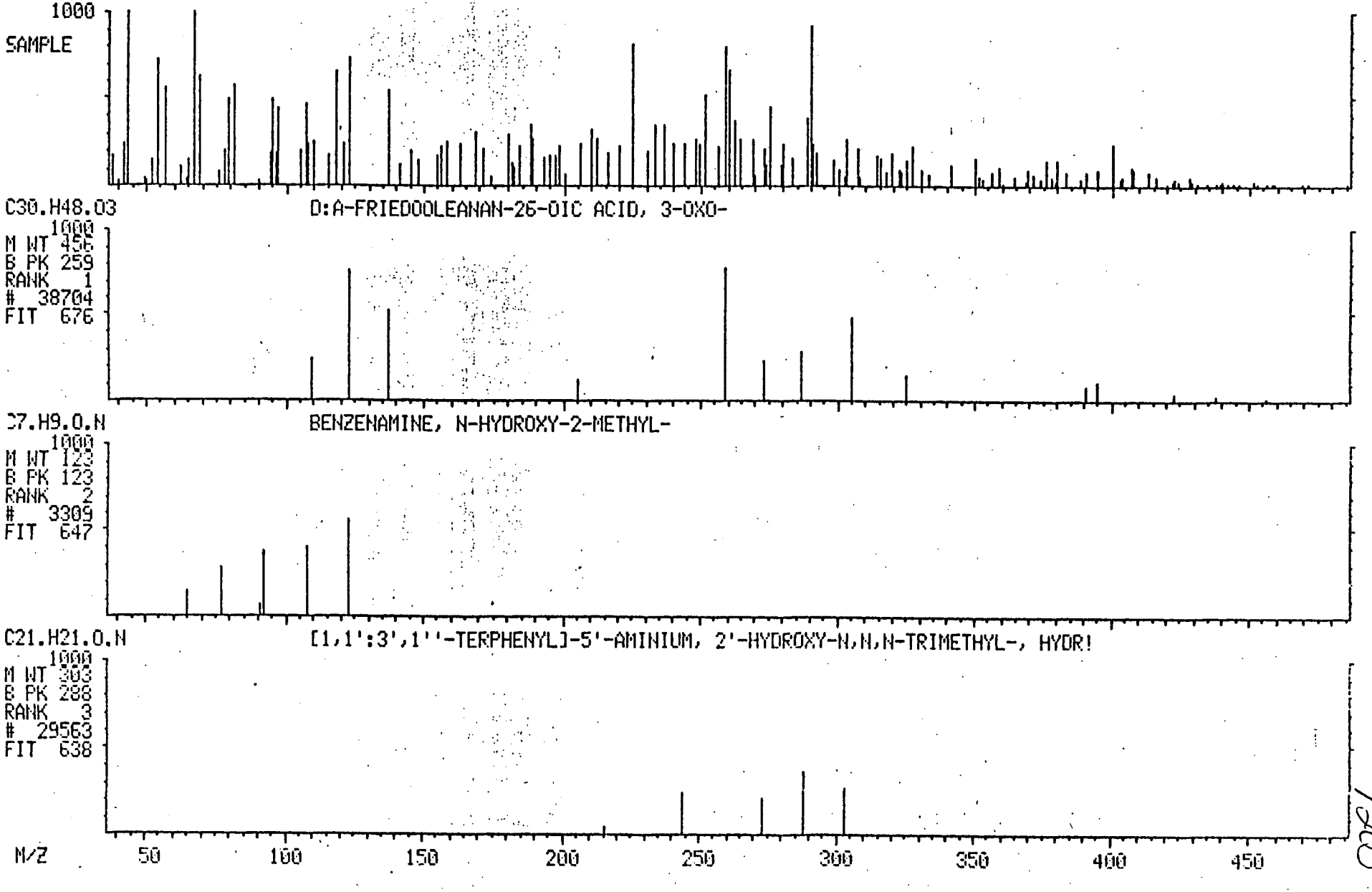
DATA: 14558N1R #2386 BASE M/Z: 67/ 43
CALI: 14558N1R #2 RIC: 187135./ 3010550.



1204

MID LIBRARY SEARCH
08/25/87 19:58:00 + 38:13
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N1R #2386 BASE M/Z: 67
CALI: 14558N1R # 2 RIC: 183039.



1205

MID Library Search Data: 14558N1R #2386 Base m/z: 67
08/25/87 19:58:00 + 38:13 Cali: 14558N1R # 2 RIC: 183039.
Sample: 14558-1
Conds.: 10.07GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	38704	D:A-FRIEDOOLEANAN-26-OIC ACID, 3-OXO-
2	3309	BENZENAMINE, N-HYDROXY-2-METHYL-
3	29563	[1,1':3',1''-TERPHENYL]-5'-AMINIUM, 2'-HYDROXY-N,N,N-TRIMETHYL-, HY*
4	26485	10H-PHENOXAPHOSPHINE, 2-ETHYL-10-HYDROXY-8-METHYL-, 10-OXIDE
5	29997	1H-CYCLOBUTA[JK]PHENANTHREN-4-OL, 2,3,3A,4,4A,5,9B,9C-OCTAHYDRO-4-(*

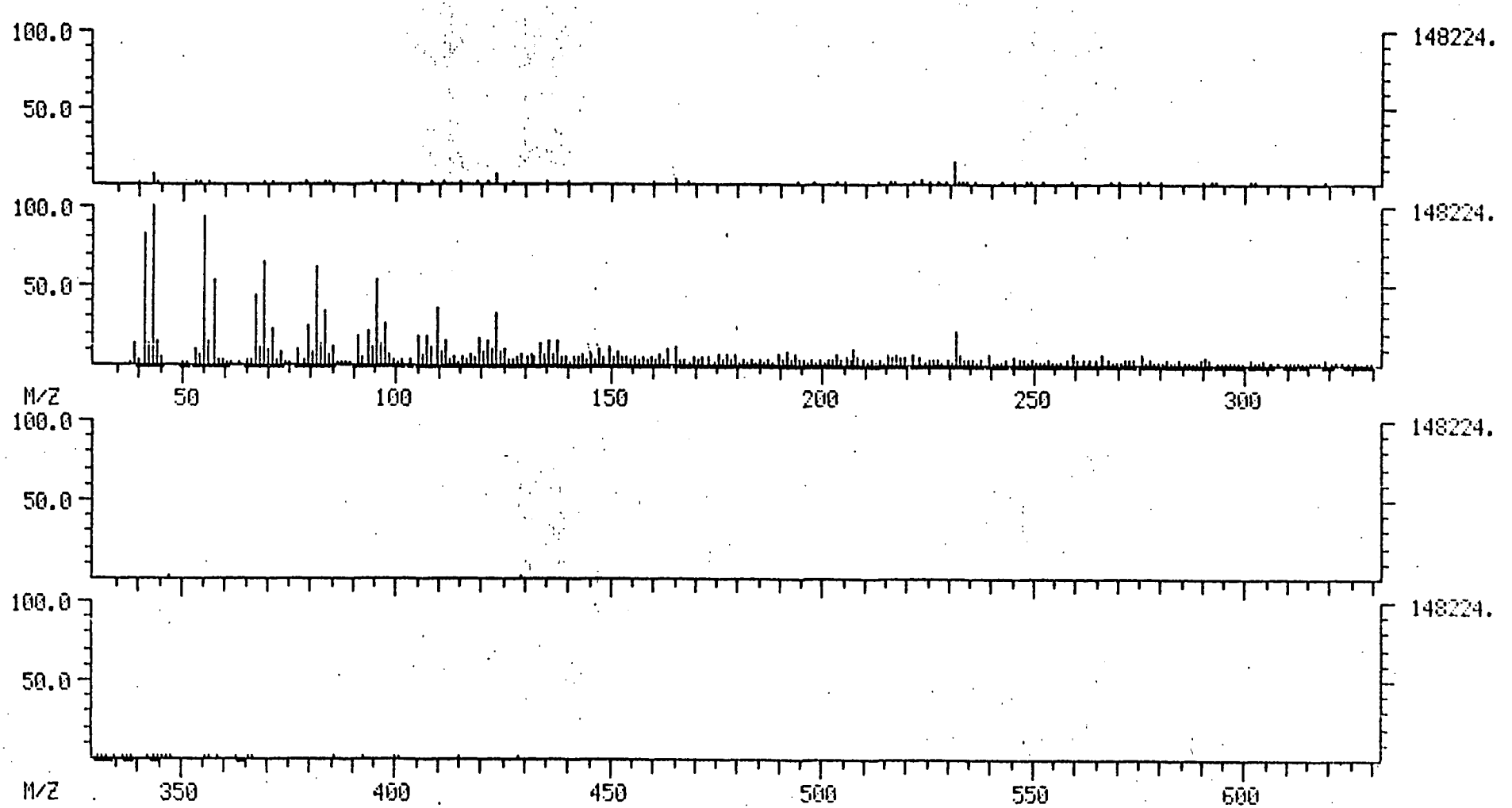
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C30.H48.O3	456	259	66	676	97
2	C7.H9.O.N	123	123	14	647	21
3	C21.H21.O.N	303	288	21	638	33
4	C15.H15.O3.P	274	259	87	625	101
5	C20.H24.O.N2	308	123	62	624	77

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	51024-97-6
2	___	___	___	___	611-22-3
3	___	___	___	___	61219-71-4
4	___	___	___	___	36360-91-5
5	___	___	___	___	69634-33-9

MID DUAL MASS SPECTRUM
08/25/87 19:58:00 + 39:18
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N1R #2454
CALI: 14558N1R #2

BASE M/Z: 231/ 43
RIC: 220927./ 2793470.

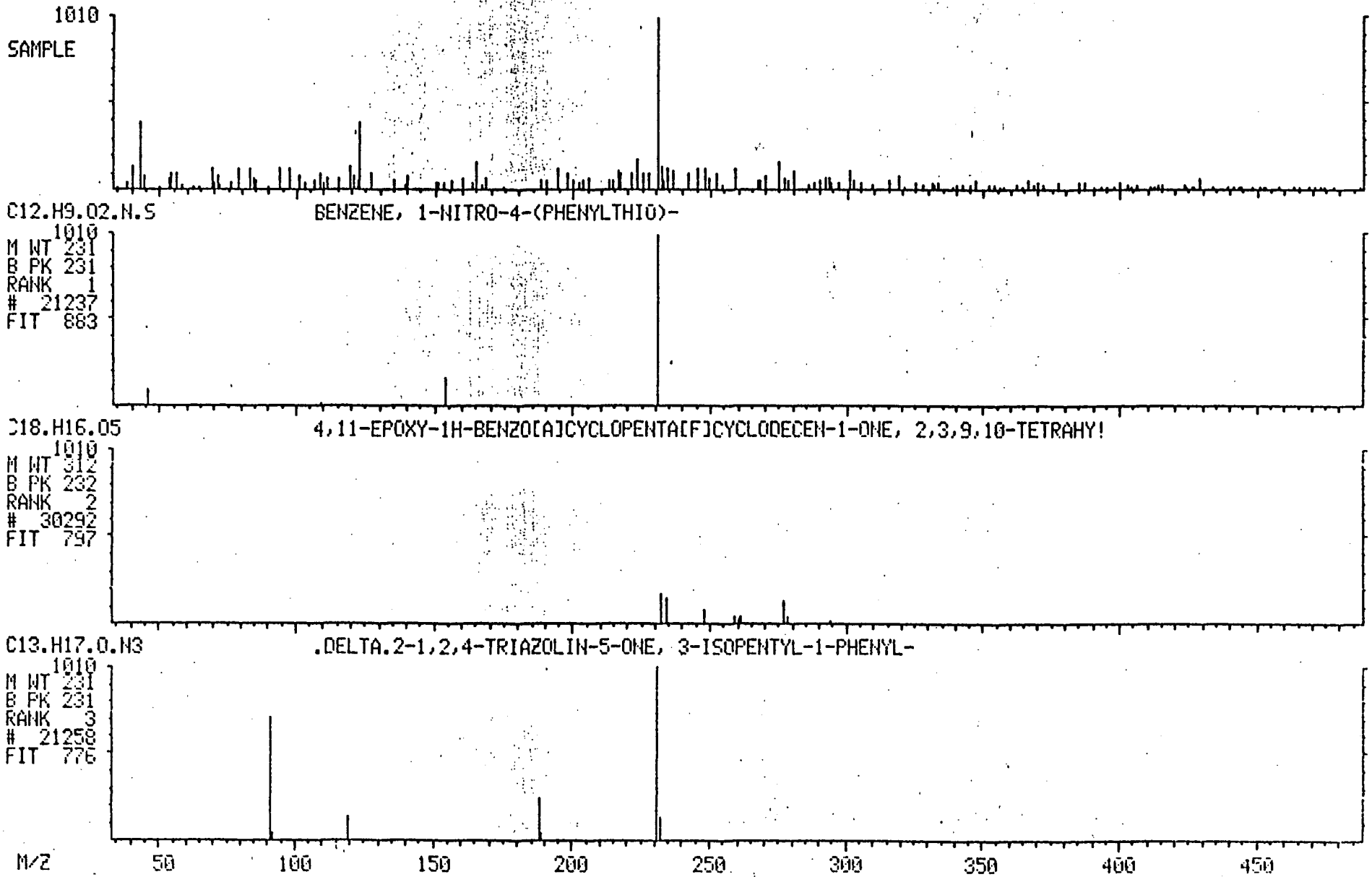


1207

MID LIBRARY SEARCH
08/25/87 19:58:00 + 39:18
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N1R #2454
CALI: 14558N1R # 2

BASE M/Z: 231
RIC: 213247.



1208

MID Library Search Data: 14558N1R #2454 Base m/z: 231
08/25/87 19:58:00 + 39:18 Cali: 14558N1R # 2 RIC: 213247.
Sample: 14558-1
Conds.: 10.07GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	21237	BENZENE, 1-NITRO-4-(PHENYLTHIO)-
2	30292	4,11-EPOXY-1H-BENZO[A]CYCLOPENTA[F]CYCLODECEN-1-ONE, 2,3,9,10-TETRA*
3	21258	.DELTA.2-1,2,4-TRIAZOLIN-5-ONE, 3-ISOPENTYL-1-PHENYL-
4	21257	.DELTA.2-1,2,4-TRIAZOLIN-5-ONE, 3-PENTYL-1-PHENYL-
5	21254	.DELTA.2-1,2,4-TRIAZOLIN-5-ONE, 3-(1-ETHYLPROPYL)-1-PHENYL-

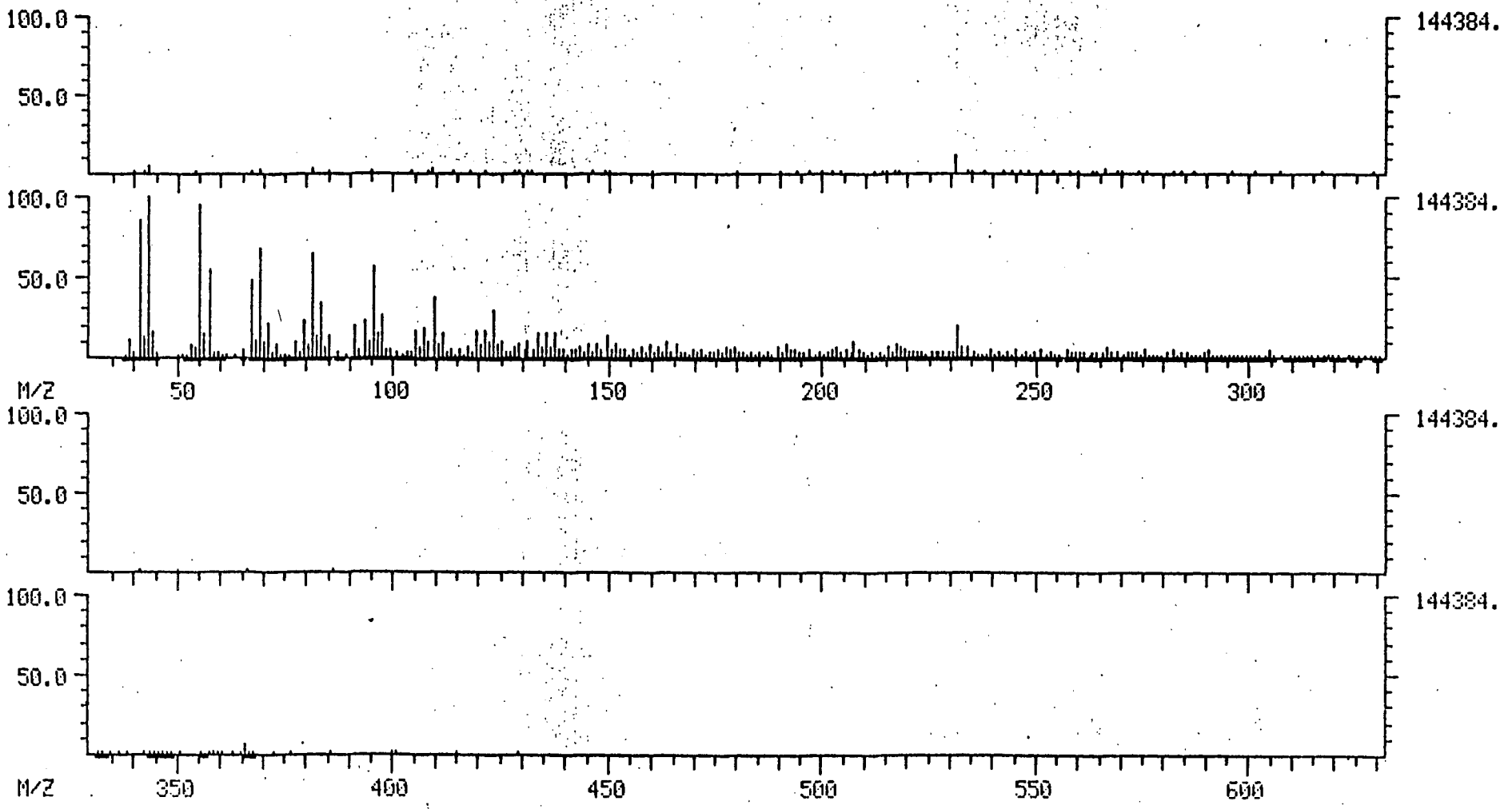
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H9.O2.N.S	231	231	105	883	119
2	C18.H16.O5	312	232	68	797	77
3	C13.H17.O.N3	231	231	116	776	143
4	C13.H17.O.N3	231	231	113	755	142
5	C13.H17.O.N3	231	231	107	720	135

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	952-97-6
2	———	———	———	———	55081-21-5
3	———	———	———	———	28669-34-3
4	———	———	———	———	28669-30-9
5	———	———	———	———	5507-95-9

MID DUAL MASS SPECTRUM
08/25/87 19:58:00 + 39:22
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 289 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N1R #2458
CALI: 14558N1R #2

BASE M/Z: 231/ 43
RIC: 200703./ 2846710.

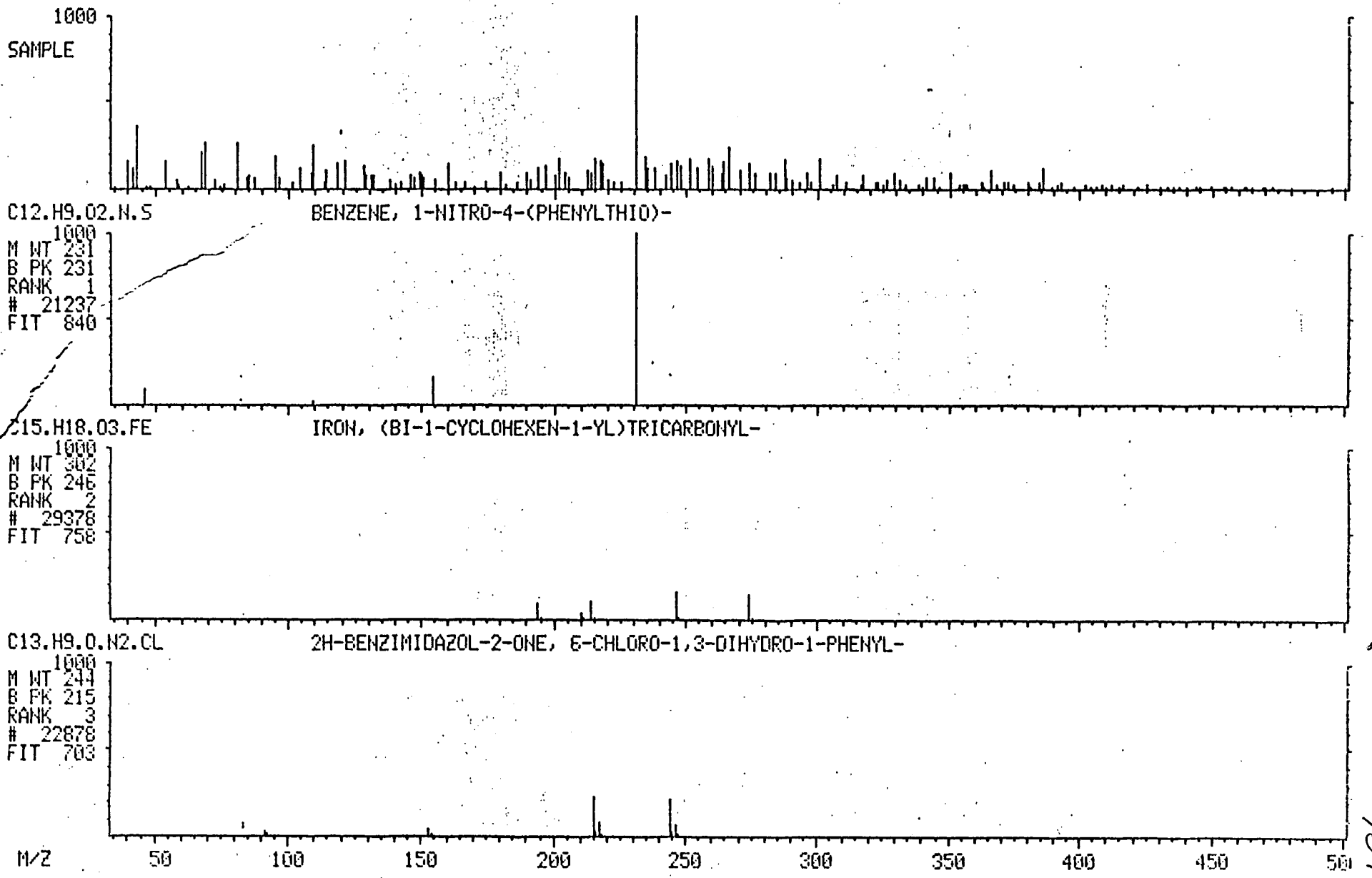


210

MID LIBRARY SEARCH
08/25/87 19:58:00 + 39:22
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N1R #2458
CALI: 14558N1R # 2

BASE M/Z: 231
RIC: 194047.



12/11

MID Library Search Data: 14558N1R #2458 Base m/z: 231
08/25/87 19:58:00 + 39:22 Cali: 14558N1R # 2 RIC: 194047.
Sample: 14558-1
Conds.: 10.07GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	21237	BENZENE, 1-NITRO-4-(PHENYLTHIO)-
2	29378	IRON, (BI-1-CYCLOHEXEN-1-YL)TRICARBONYL-
3	22878	2H-BENZIMIDAZOL-2-ONE, 6-CHLORO-1,3-DIHYDRO-1-PHENYL-
4	38126	D:A-FRIEDOOLEANANE-1,3-DIONE
5	36556	9,10-PHENANTHRENEDIONE, 7-[2-(ACETYLOXY)-1-METHYLETHYL]-1,2,3,4,4A,*

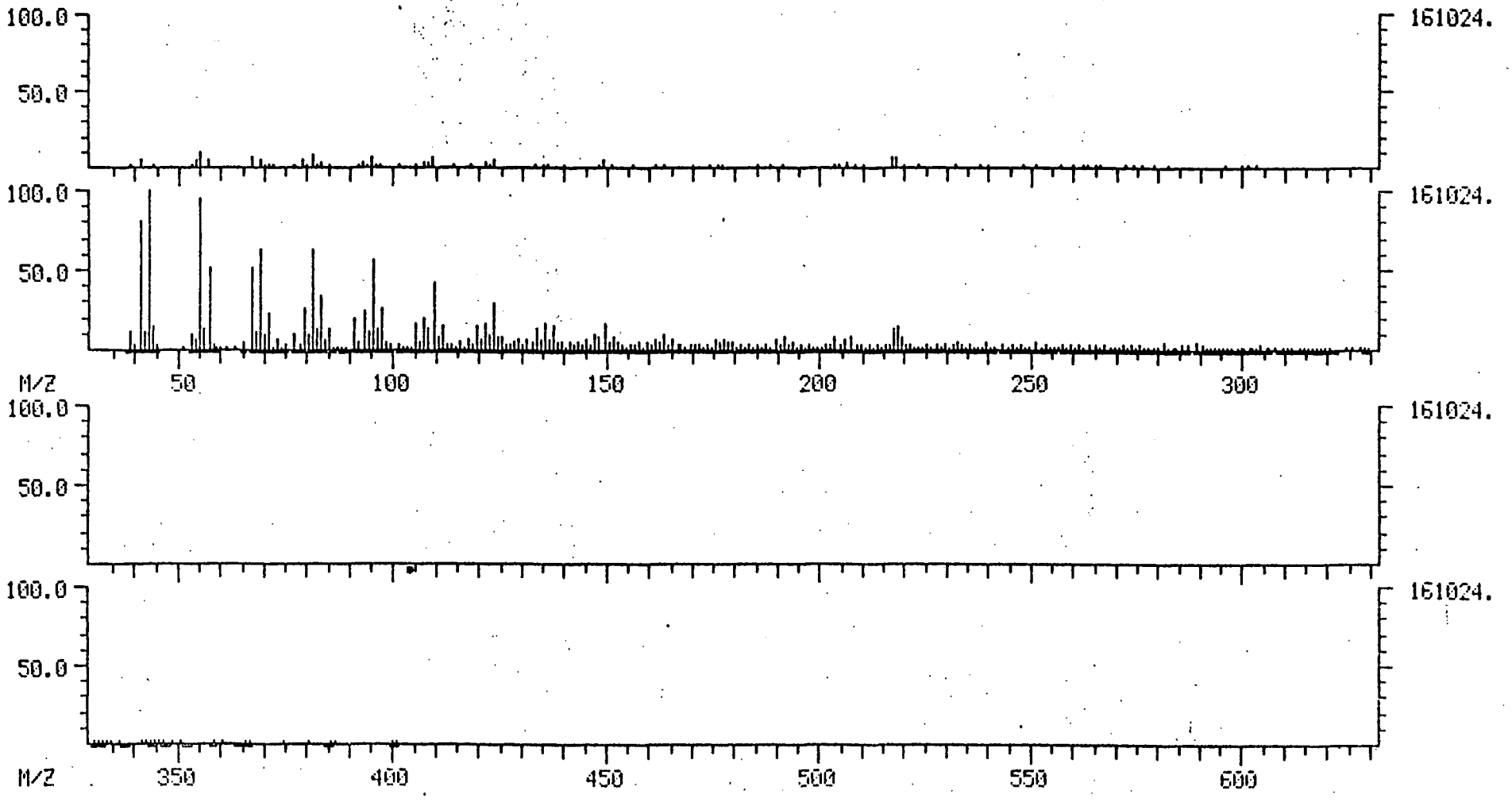
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H9.O2.N.S	231	231	85	840	96
2	C15.H18.O3.FE	302	246	47	758	55
3	C13.H9.O.N2.CL	244	215	49	703	59
4	C30.H48.O2	440	260	64	678	77
5	C22.H28.O7	404	234	65	635	98

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	952-97-6
2	___	___	___	___	12216-15-8
3	___	___	___	___	54986-47-9
4	___	___	___	___	32768-97-1
5	___	___	___	___	66584-97-2

MID DUAL MASS SPECTRUM
08/25/87 19:58:00 + 39:46
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML, 1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N1R #2483
CALI: 14558N1R #2

BASE M/Z: 55/ 43
RIC: 357375./ 2998270.

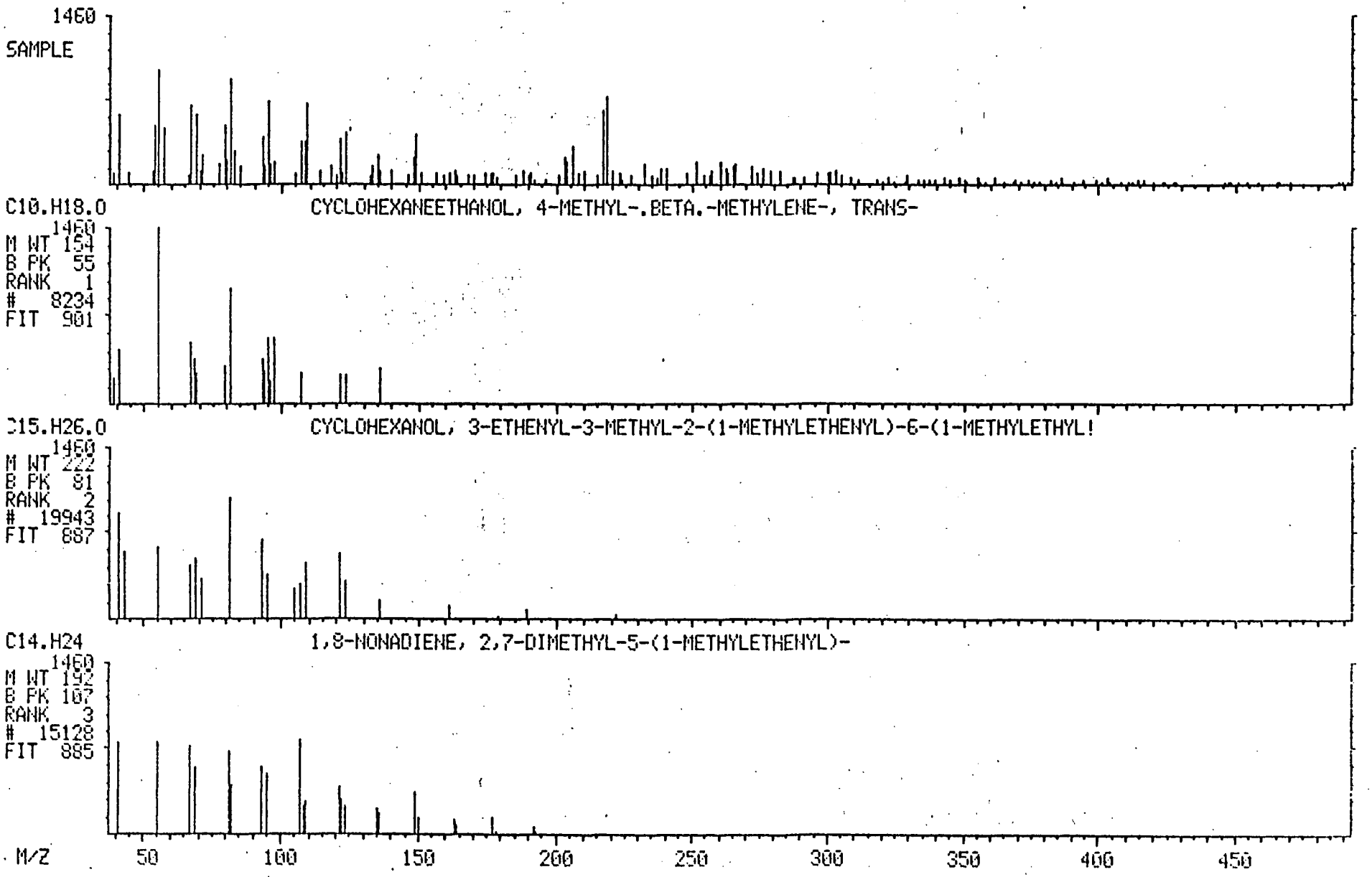


1213

MID LIBRARY SEARCH
08/25/87 19:58:00 + 39:46
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N1R #2483
CALI: 14558N1R # 2

BASE M/Z: 55
RIC: 335871.



12/4

MID Library Search Data: 14558N1R #2483 Base m/z: 55
08/25/87 19:58:00 + 39:46 Cali: 14558N1R # 2 RIC: 335871.
Sample: 14558-1
Conds.: 10.07GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

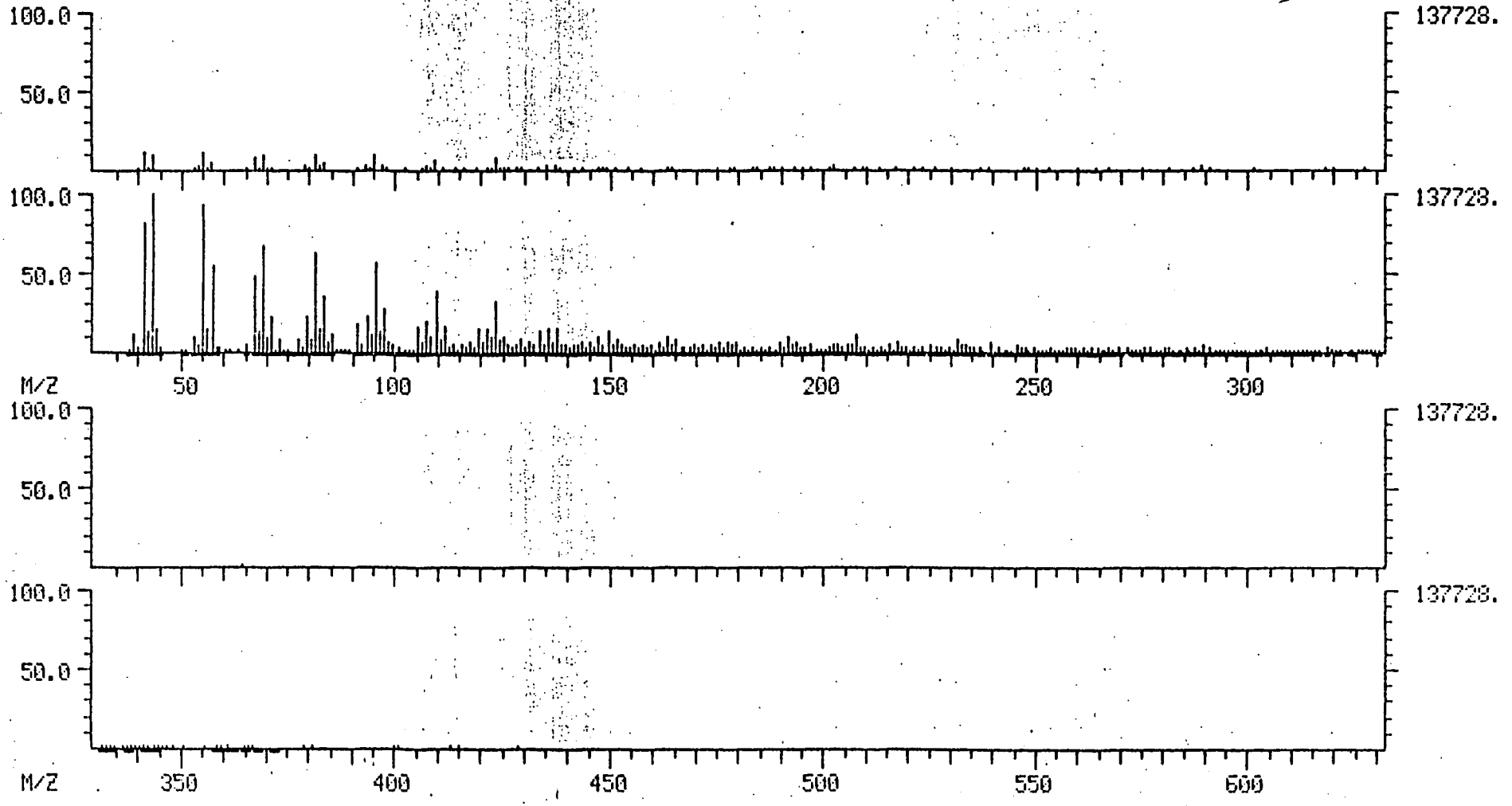
Rank	In.	Name
1	8234	CYCLOHEXANEETHANOL, 4-METHYL-.BETA.-METHYLENE-, TRANS-
2	19943	CYCLOHEXANOL, 3-ETHENYL-3-METHYL-2-(1-METHYLETHENYL)-6-(1-METHYLETH*
3	15128	1,8-NONADIENE, 2,7-DIMETHYL-5-(1-METHYLETHENYL)-
4	15276	CYCLODODECANECARBONITRILE
5	21383	2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-M*

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H18.O	154	55	157	901	164
2	C15.H26.O	222	81	161	887	174
3	C14.H24	192	107	207	885	222
4	C13.H23.N	193	41	102	867	116
5	C15.H20.O2	232	81	228	838	256

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	15714-12-2
2	___	___	___	___	35727-45-8
3	___	___	___	___	68702-20-5
4	___	___	___	___	69300-13-6
5	___	___	___	___	28290-35-9

MID DUAL MASS SPECTRUM
08/25/87 19:58:00 + 40:53
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

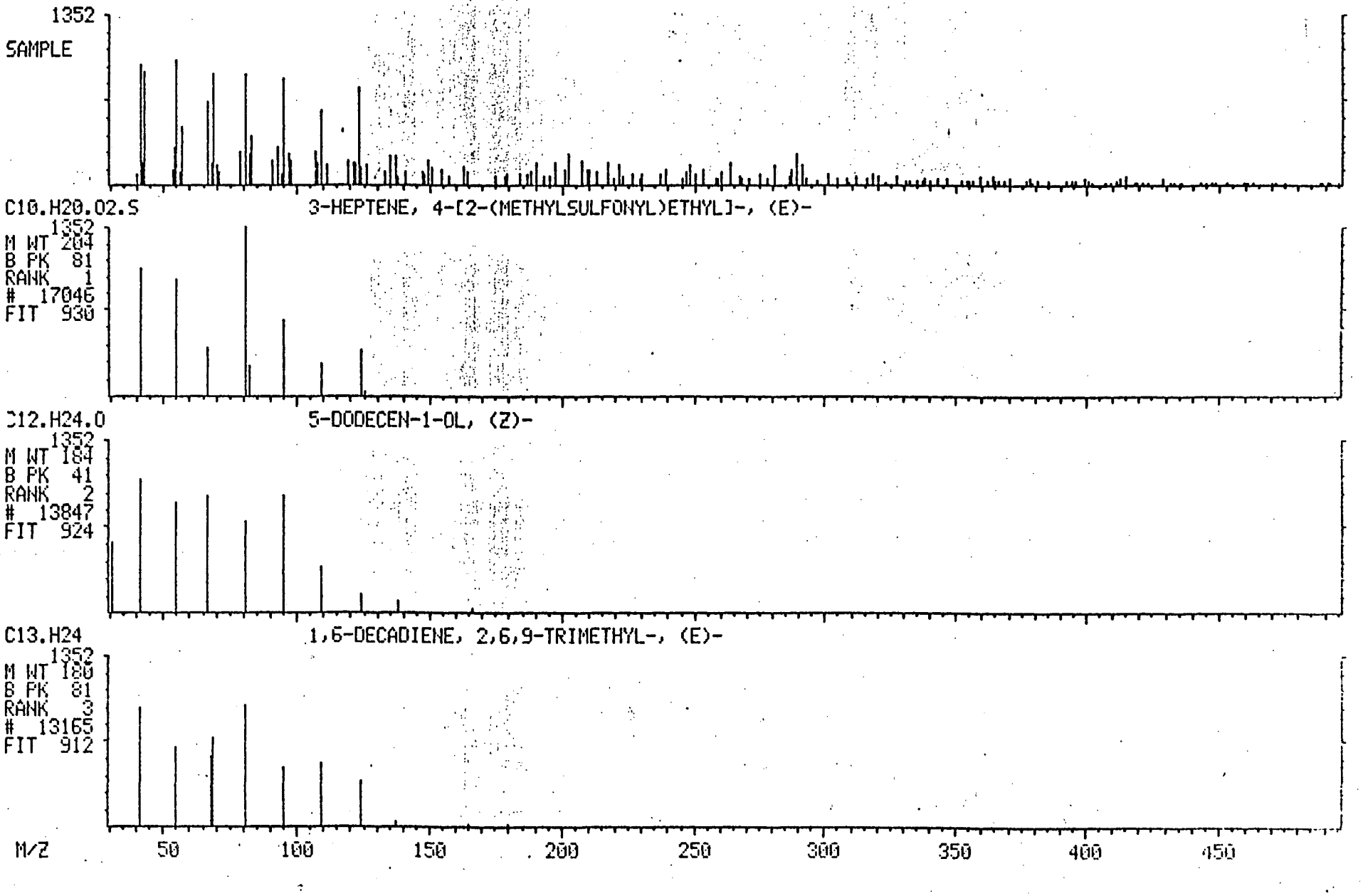
DATA: 14558N1R #2553 BASE M/Z: 55/ 43
CALI: 14558N1R #2 RIC: 382463./ 2613240.



1216

MID LIBRARY SEARCH
08/25/87 19:58:00 + 40:53
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N1R #2553 BASE M/Z: 55
CALI: 14558N1R # 2 RIC: 340479.



MID Library Search Data: 14558N1R #2553 Base m/z: 55
08/25/87 19:58:00 + 40:53 Cali: 14558N1R # 2 RIC: 340479.
Sample: 14558-1
Conds.: 10.07GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	17046	3-HEPTENE, 4-[2-(METHYLSULFONYL)ETHYL]-, (E)-
2	13847	5-DODECEN-1-OL, (Z)-
3	13165	1,6-DECADIENE, 2,6,9-TRIMETHYL-, (E)-
4	5404	CYCLOPROPANE, TETRAMETHYLPROPYLIDENE-
5	25402	1H-INDENE, 5-BUTYL-6-HEXYLOCTAHYDRO-

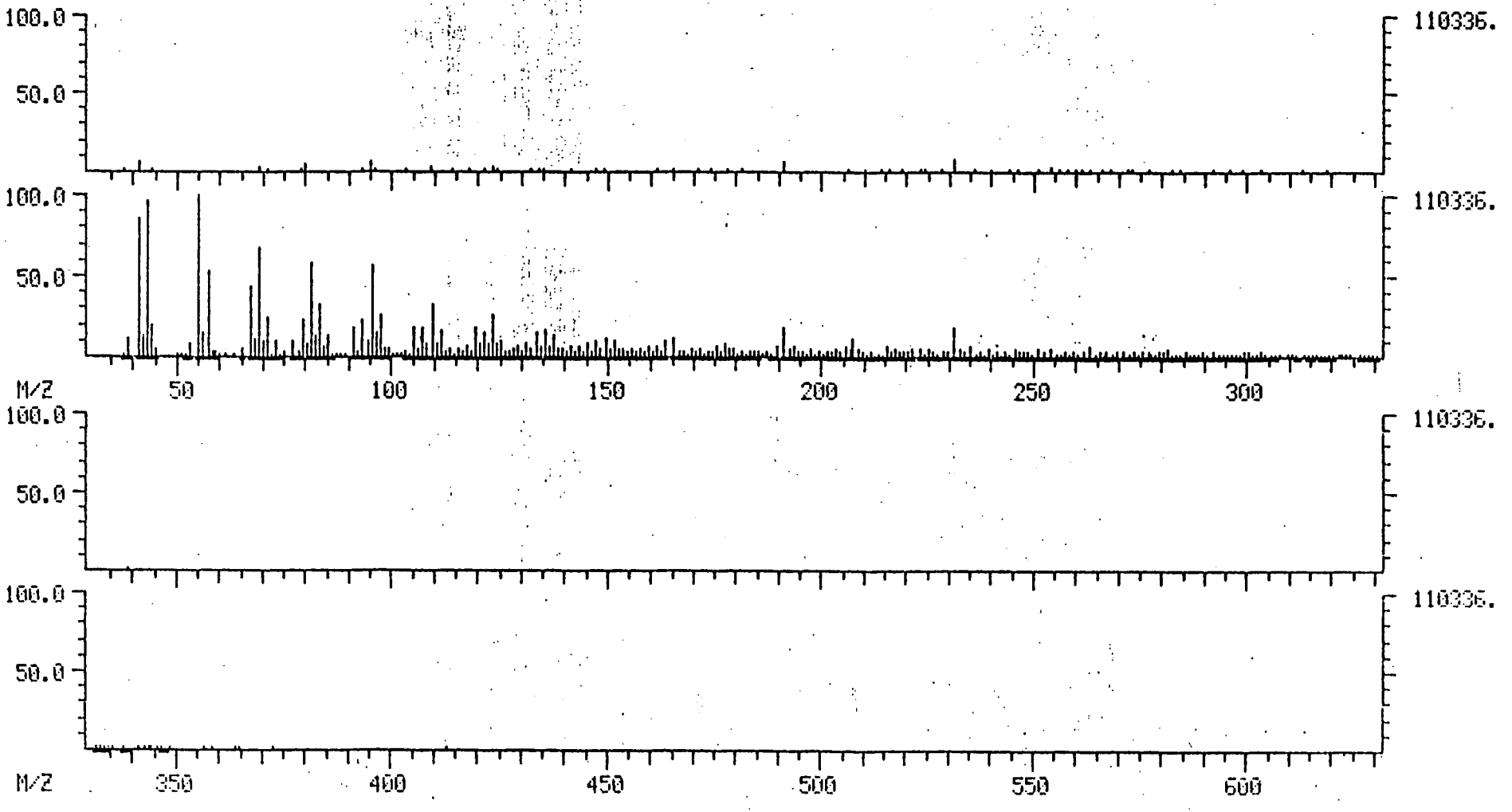
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H20.O2.S	204	81	113	930	115
2	C12.H24.O	184	41	109	924	117
3	C13.H24	180	81	122	912	123
4	C10.H18	138	81	175	896	181
5	C19.H36	264	41	241	892	259

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	67428-49-3
2	___	___	___	___	40642-38-4
3	___	___	___	___	69690-72-8
4	___	___	___	___	24519-04-8
5	___	___	___	___	55044-36-5

MID DUAL MASS SPECTRUM
08/25/87 19:58:00 + 43:30
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N1R #2716
CALI: 14558N1R #2

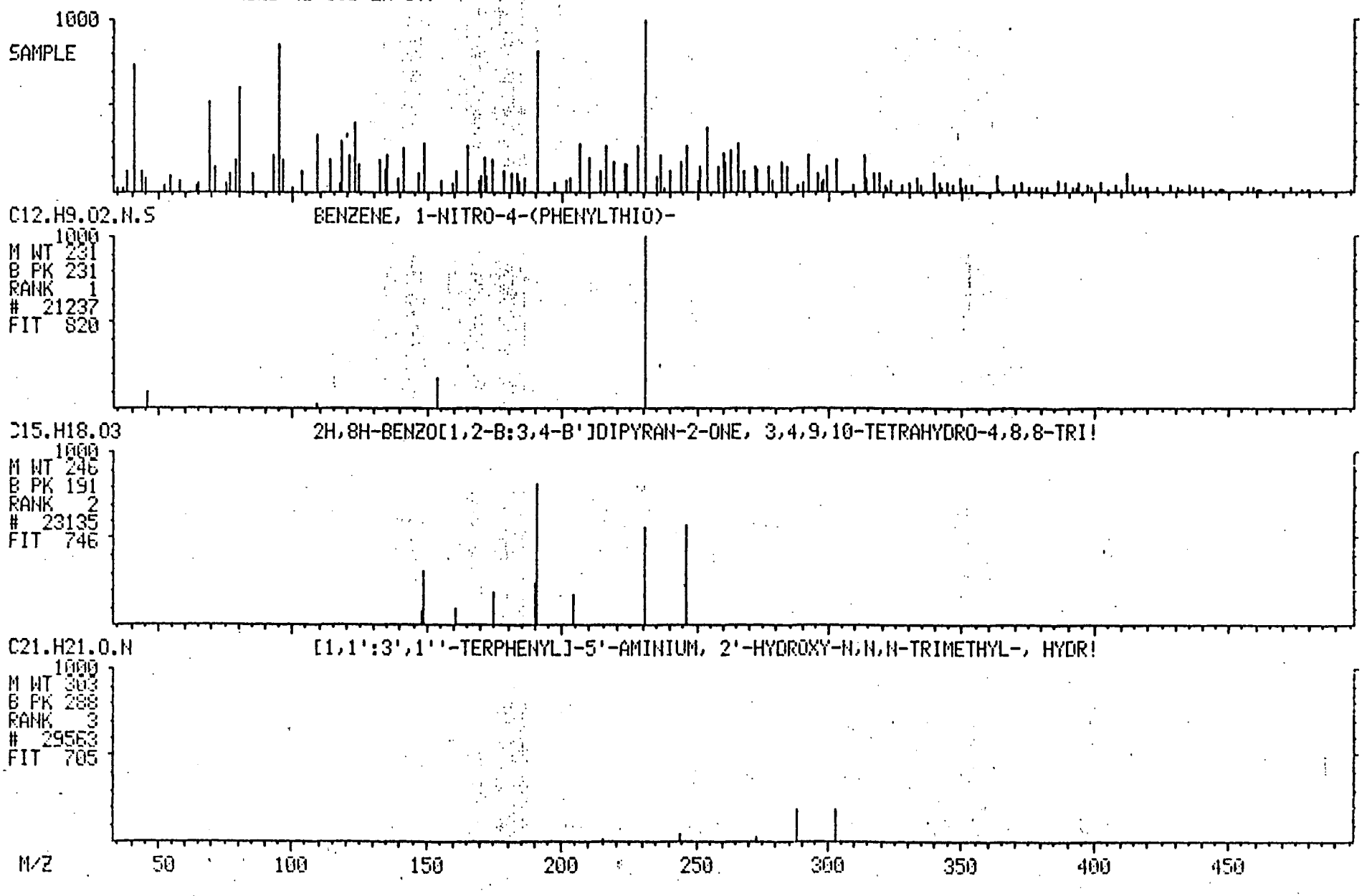
BASE M/Z: 231/ 55
RIC: 171007./ 2097150.



6/C1

MID LIBRARY SEARCH
08/25/87 19:58:00 + 43:30
SAMPLE: 14558-1
CONDS.: 10.07GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N1R #2716 BASE M/Z: 231
CALI: 14558N1R # 2 RIC: 168447.



1030

MID Library Search Data: 14558N1R #2716 Base m/z: 231
08/25/87 19:58:00 + 43:30 Cali: 14558N1R # 2 RIC: 168447.
Sample: 14558-1
Conds.: 10.07GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	21237	BENZENE, 1-NITRO-4-(PHENYLTHIO)-
2	23135	2H,8H-BENZO[1,2-B:3,4-B']DIPYRAN-2-ONE, 3,4,9,10-TETRAHYDRO-4,8,8-T*
3	29563	[1,1':3',1''-TERPHENYL]-5'-AMINIUM, 2'-HYDROXY-N,N,N-TRIMETHYL-, HY*
4	17530	CYCLOHEXANONE, 2,3,3-TRIMETHYL-2-(3-METHYL-1,3-BUTADIENYL)-, (Z)-
5	32073	ANDROSTANE-17-CARBOXYLIC ACID, 3-OXO-, METHYL ESTER, (5.ALPHA.,17.B*

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H9.O2.N.S	231	231	56	820	63
2	C15.H18.O3	246	191	98	746	124
3	C21.H21.O.N	303	288	26	705	27
4	C14.H22.O	206	41	102	688	143
5	C21.H32.O3	332	231	80	655	118

Rank	Ret. Time	B.P: Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	952-97-6
2	___	___	___	___	42299-67-2
3	___	___	___	___	61219-71-4
4	___	___	___	___	69296-90-8
5	___	___	___	___	4139-88-2

1222

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSA0811746

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-2

Sample wt/vol: 10.1 (g/mL) G Lab File ID: 14558N2R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 22 dec. Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/25/87

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
100-51-6	Benzyl Alcohol	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
39638-32-9	bis(2-Chloroisopropyl)Ether	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
65-85-0	Benzoic Acid	2100	U
111-91-1	bis(2-Chloroethoxy)Methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	420	U
91-57-6	2-Methylnaphthalene	68	J
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	2100	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethyl Phthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U

1223

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSAOS11746

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-2

Sample wt/vol: 10.1 (g/mL) G Lab File ID: 14558N2R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 22 dec. _____ Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/25/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2100	U
83-32-9	Acenaphthene	420	U
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	420	U
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
7005-72-3	4-Chlorophenyl-phenylether	420	U
86-73-7	Fluorene	420	U
100-10-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-Methylphenol	2100	U
86-30-6	N-Nitrosodiphenylamine (1)	74	J
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	330	J
120-12-7	Anthracene	420	U
84-74-2	Di-n-Butylphthalate	180	J
206-44-0	Fluoranthene	420	U
129-00-0	Pyrene	180	J
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	850	U
56-55-3	Benzo(a)Anthracene	420	U
218-01-9	Chrysene	420	U
117-81-7	bis(2-Ethylhexyl)Phthalate	250	BJ
117-84-0	Di-n-Octyl Phthalate	420	U
205-99-2	Benzo(b)Fluoranthene	420	U
207-08-9	Benzo(k)Fluoranthene	420	U
50-32-8	Benzo(a)Pyrene	420	U
193-39-5	Indeno(1,2,3-cd)Pyrene	420	U
53-70-3	Dibenz(a,h)Anthracene	420	U
191-24-2	Benzo(g,h,i)Perylene	420	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSA0811746

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14538-2

Sample wt/vol: 10.1 (g/mL) G Lab File ID: 14538N2R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 22 dec. _____ Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/25/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.00

Number TICs found: 0

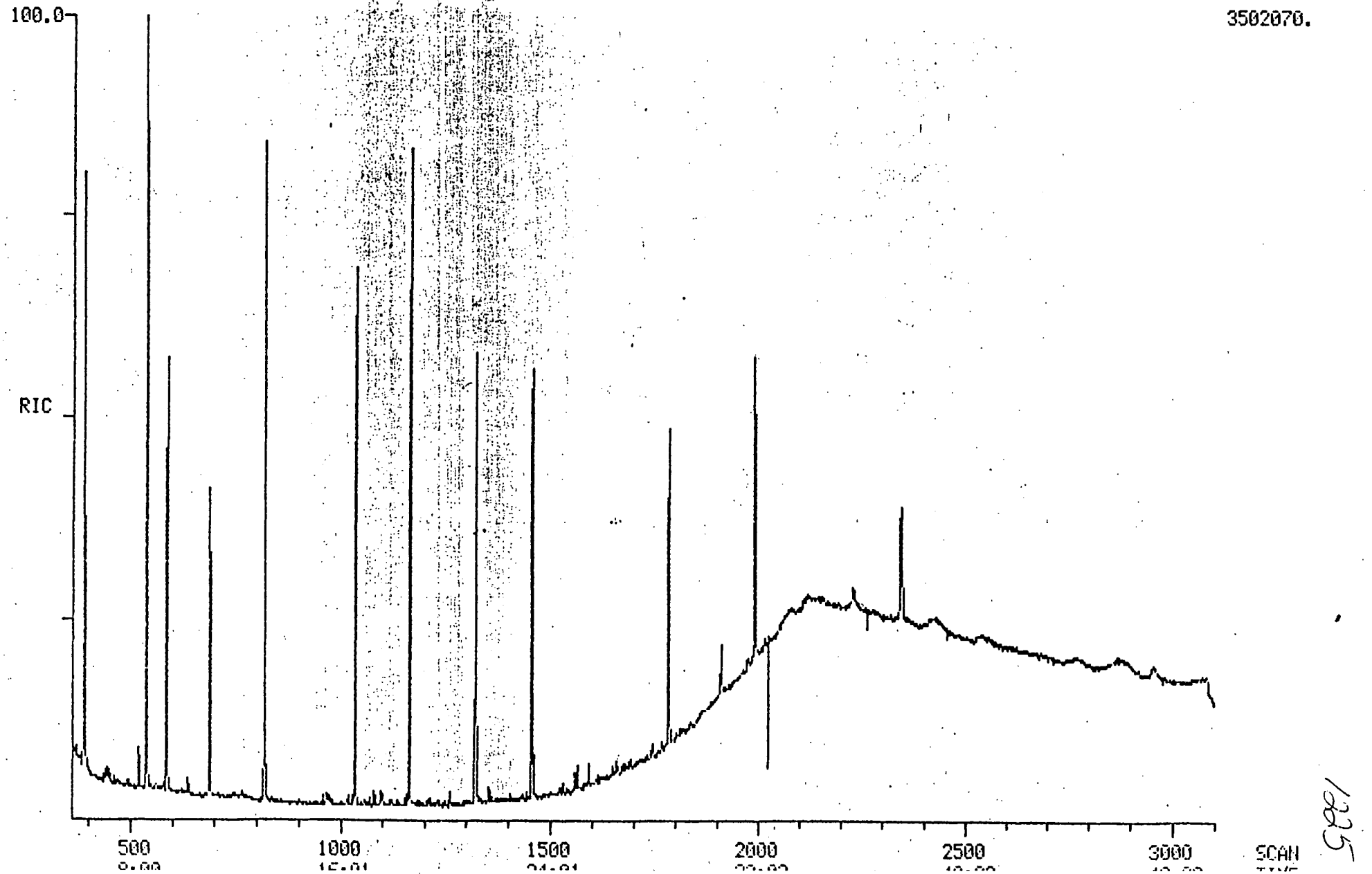
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

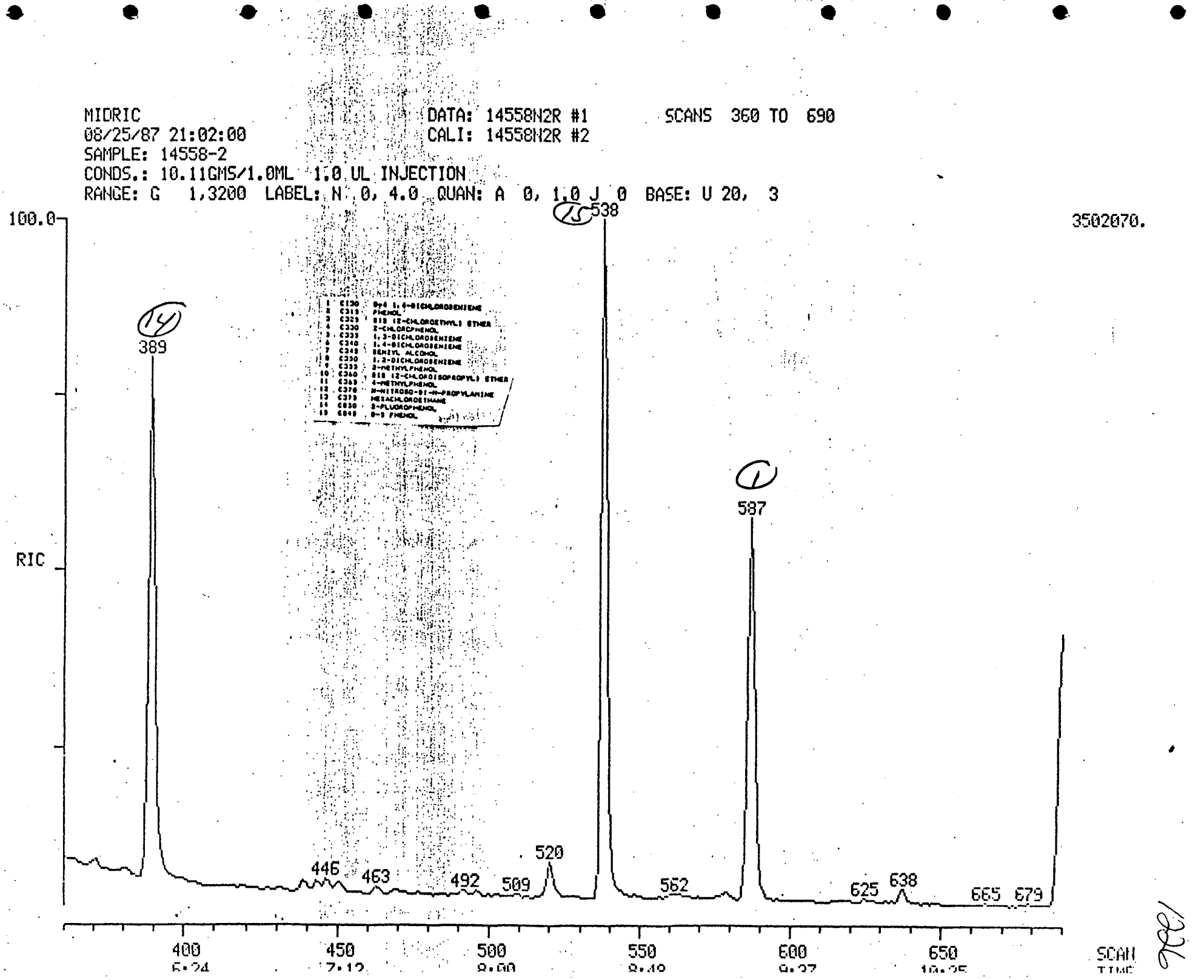
MIDRIC
08/25/87 21:02:00
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N, 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558N2R #1
CALI: 14558N2R #2

SCANS 360 TO 3100



605


MIDRIC
08/25/87 21:02:00
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558N2R #1
CALI: 14558N2R #2
SCANS 360 TO 690
100.0
3502070.
RIC
14
389
IS
538
1
587
446
463
492
509
520
562
625
638
665
679
400
450
500
550
600
650
SCAN

Quantitation Report File: 14558N2R

Data: 14558N2R.TI
08/25/87 21:02:00
Sample: 14558-2
Conds.: 10.11GMS/1.0ML 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14588N2R

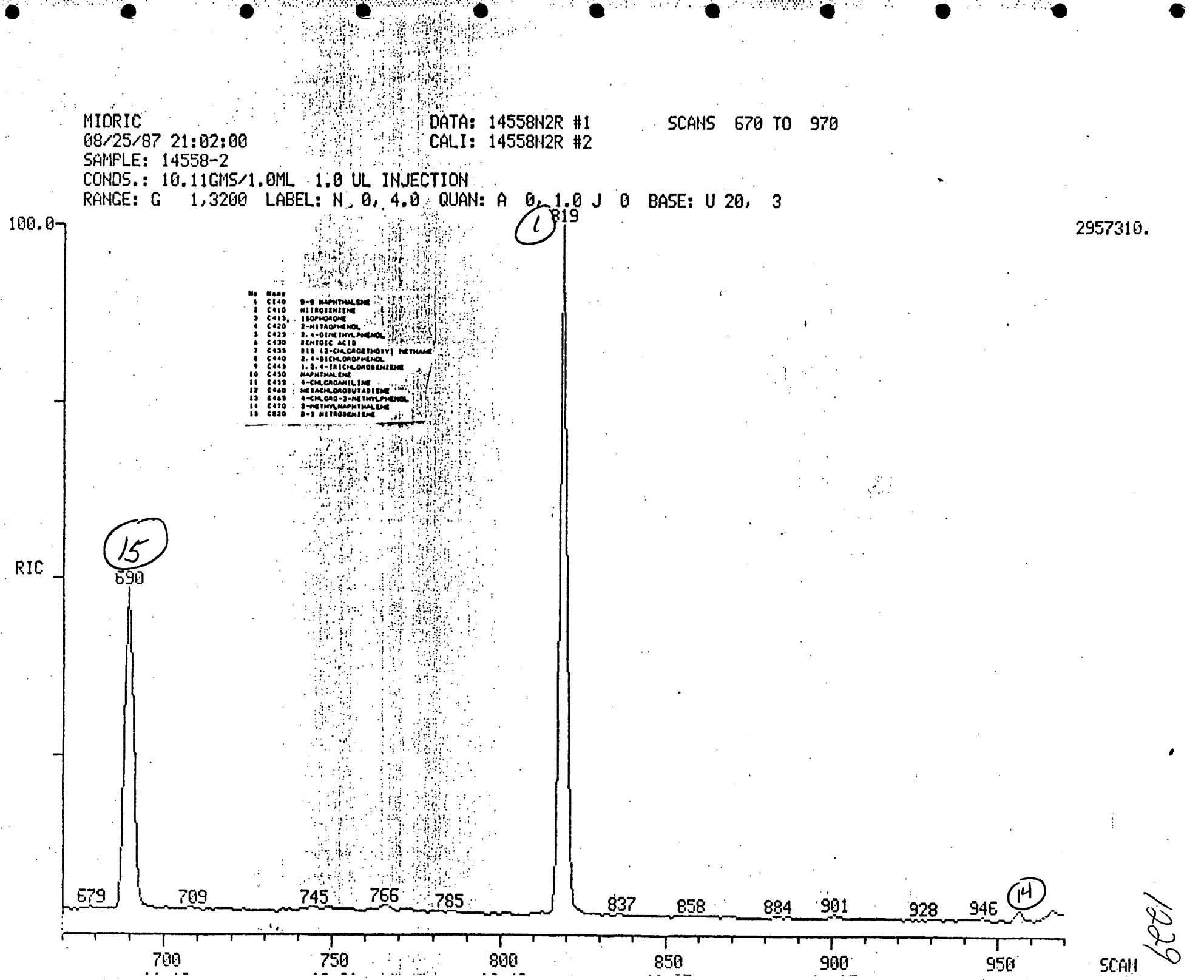
AMOUNT=AREA *,REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	D-4 1,4-DICHLOROBENZENE	(INT. STD.)
2	C315	PHENOL	*
3	C325	BIS (2-CHLOROETHYL) ETHER	
4	C330	2-CHLOROPHENOL	
5	C335	1,3-DICHLOROBENZENE	
6	C340	1,4-DICHLOROBENZENE	*
7	C345	BENZYL ALCOHOL	
8	C350	1,2-DICHLOROBENZENE	
9	C355	2-METHYLPHENOL	
10	C360	BIS (2-CHLOROISOPROPYL) ETHER	
11	C365	4-METHYLPHENOL	
12	C370	N-NITROSO-DI-N-PROPYLAMINE	**
13	C375	HEXACHLOROETHANE	
14	CS50	2-FLUOROPHENOL	(SURROGATE)
15	CS45	D-5 PHENOL	(SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	587	9:24	1	1.000	A BV	581632.	40.000 NG	20.31
2	94	540	8:39	1	0.920	A VV	~~23115.~~	~~0.851 NG~~	~~0.43~~ NO
3	93	546	8:45	1	0.930	A*VB	~~4442.~~	~~0.182 NG~~	~~0.09~~ NO
4	128	557	8:55	1	0.949	A BB	~~3712.~~	~~0.180 NG~~	~~0.09~~ NO
5	146	577	9:14	1	0.983	A*BB	~~1056.~~	~~0.049 NG~~	~~0.02~~ NO
6	146	590	9:27	1	1.005	A*BB	~~1696.~~	~~0.076 NG~~	~~0.04~~ NO
7	108	617	9:53	1	1.051	A*VV	~~4932.~~	~~0.365 NG~~	~~0.19~~ NO
8	146	621	9:57	1	1.058	A*BB	~~672.~~	~~0.031 NG~~	~~0.02~~ NO
9	108	643	10:18	1	1.095	A*BB	~~2699~~	~~0.149 NG~~	~~0.08~~ NO
10	45	648	10:23	1	1.104	A*BB	~~3717.~~	~~0.077 NG~~	~~0.04~~ NO
11	108	668	10:42	1	1.138	A*BB	~~3488.~~	~~0.181 NG~~	~~0.09~~ NO
12	70	670	10:44	1	1.141	A*BV	~~10785.~~	~~0.412 NG~~	~~0.21~~ NO
13	117	678	10:51	1	1.155	A*BB	~~1952.~~	~~0.190 NG~~	~~0.10~~ NO
14	112	389	6:14	1	0.663	A BB	1256130.	74.394 NG	37.78 YES
15	99	538	8:37	1	0.917	A BB	1802440.	79.791 NG	40.52 YES

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:40	1.00	0.920	1.00	0.85	50.00	0.032	1.870	0.02
3	8:50	0.99	0.939	0.99	0.18	50.00	0.006	1.677	0.00
4	8:56	1.00	0.949	1.00	0.18	50.00	0.005	1.420	0.00
5	9:19	0.99	0.990	0.99	0.05	50.00	0.001	1.492	0.00
6	9:28	1.00	1.005	1.00	0.08	50.00	0.002	1.537	0.00
7	9:54	1.00	1.051	1.00	0.37	50.00	0.007	0.910	0.01
8	9:59	1.00	1.060	1.00	0.03	50.00	0.001	1.511	0.00
9	10:18	1.00	1.094	1.00	0.15	50.00	0.004	1.238	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	10:22	1.00	1.100	1.00	0.08	50.00	0.005	3.341	0.00
11	10:43	1.00	1.138	1.00	0.18	50.00	0.005	1.327	0.00
12	10:45	1.00	1.141	1.00	0.41	50.00	0.015	1.798	0.01
13	10:51	1.00	1.151	1.00	0.19	50.00	0.003	0.705	0.00
14	6:15	1.00	0.663	1.00	74.39	50.00	1.728	1.161	1.49
15	8:38	1.00	0.917	1.00	79.79	50.00	2.479	1.554	1.60


MIDRIC
08/25/87 21:02:00
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558N2R #1
CALI: 14558N2R #2
SCANS 670 TO 970
100.0
2957310.
RIC
1
819
15
690
679
709
745
766
785
837
858
884
901
928
946
14
700
750
800
850
900
950
SCAN
1229

1230

Quantitation Report File: 14558N2R

Data: 14558N2R.TI
08/25/87 21:02:00
Sample: 14558-2
Conds.: 10.11GMS/1.0ML 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14588N2R

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

No	Name		
1	CI40	D-8 NAPHTHALENE	(INT. STD.)
2	C410	NITROBENZENE	
3	C415	ISOPHORONE	
4	C420	2-NITROPHENOL	*
5	C425	2,4-DIMETHYLPHENOL	
6	C430	BENZOIC ACID	
7	C435	BIS (2-CHLOROETHOXY) METHANE	
8	C440	2,4-DICHLOROPHENOL	*
9	C445	1,2,4-TRICHLOROBENZENE	
10	C450	NAPHTHALENE	
11	C455	4-CHLOROANILINE	
12	C460	HEXACHLOROBUTADIENE	*
13	C465	4-CHLORO-3-METHYLPHENOL	*
14	C470	2-METHYLNAPHTHALENE	
15	CS20	D-5 NITROBENZENE	(SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	136	819	13:07	1	1.000	A BV	2242390.	40.000 NG	51.29
2	77	690	11:03	1	0.842	A*BB	~~9272.~~	~~0.282 NG~~	~~0.36~~ NO QQJ
3	82	736	11:47	1	0.899	A*BV	~~4779.~~	~~0.081 NG~~	~~0.10~~ NO QQJ
4	139	756	12:06	1	0.923	A*BB	~~2298.~~	~~0.232 NG~~	~~0.30~~ NO QQJ
5	122	770	12:20	1	0.940	A BB	~~294.~~	~~0.023 NG~~	~~0.03~~ NO QQJ
6	122	782	12:31	1	0.955	A*VB	~~2048.~~	~~0.176 NG~~	~~0.23~~ NO QQJ
7	93	786	12:35	1	0.960	A*BB	~~3797.~~	~~0.118 NG~~	~~0.15~~ NO QQJ
8	162	800	12:49	1	0.977	A BB	~~352.~~	~~0.029 NG~~	~~0.03~~ NO QQJ
9	180	812	13:00	1	0.991	A BB	~~3296.~~	~~0.176 NG~~	~~0.23~~ NO QQJ
10	128	822	13:10	1	1.004	A*BB	~~4960.~~	~~0.087 NG~~	~~0.11~~ NO QQJ
11	127	843	13:30	1	1.029	A BB	~~640.~~	~~0.026 NG~~	~~0.03~~ NO QQJ
12	NOT FOUND								
13	107	934	14:57	1	1.140	A*BV	~~1888.~~	~~0.074 NG~~	~~0.09~~ NO QQJ
14	142	957	15:20	1	1.168	A BB	20704.	0.540 NG	0.69 YES QQJ
15	82	690	11:03	1	0.842	A VV	1105680.	36.153 NG	46.36 YES QQJ

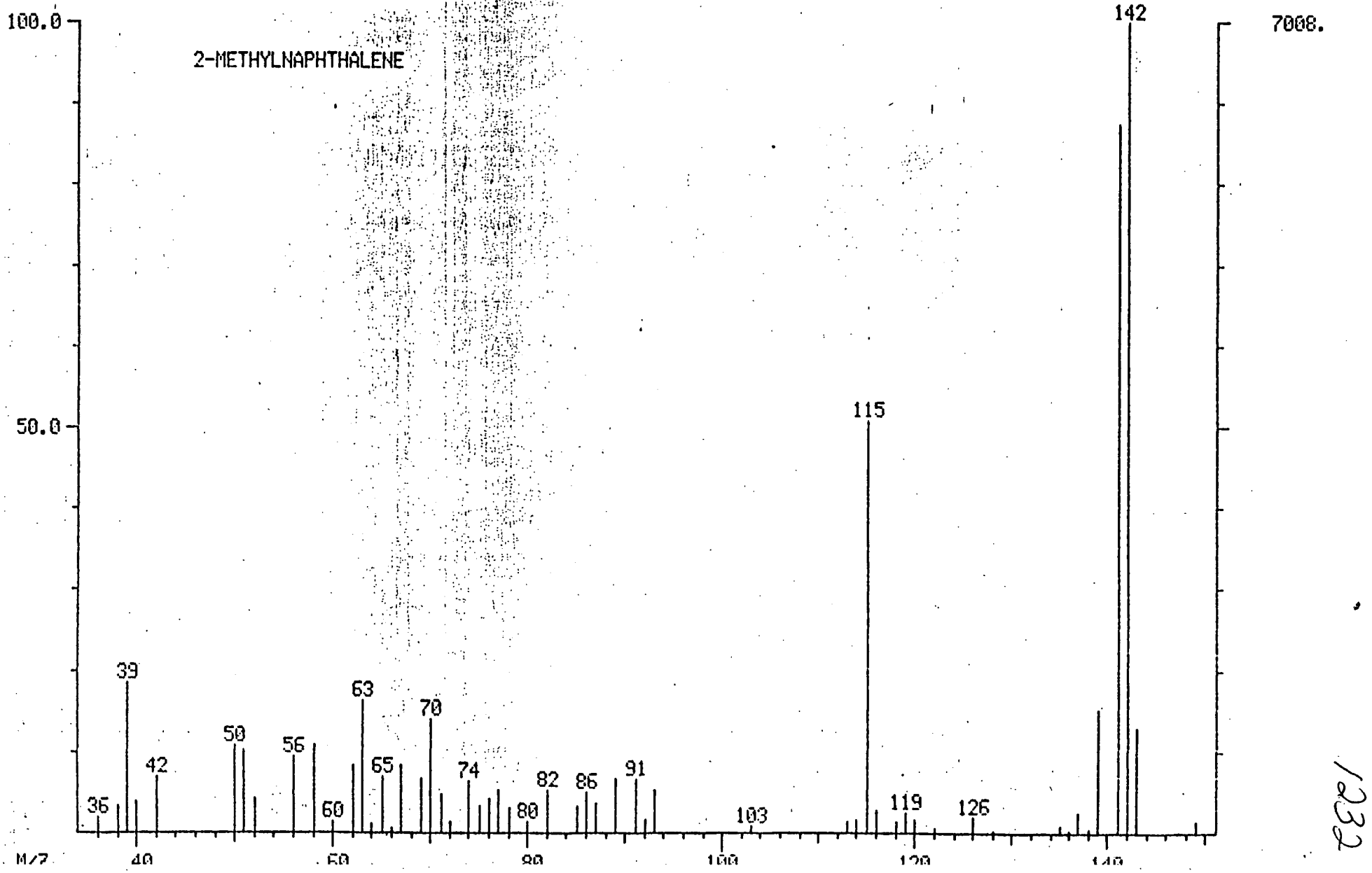
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	11:08	0.99	0.848	0.99	0.28	50.00	0.003	0.585	0.01
3	11:48	1.00	0.899	1.00	0.08	50.00	0.002	1.098	0.00
4	12:05	1.00	0.920	1.00	0.23	50.00	0.001	0.170	0.00
5	12:16	1.01	0.934	1.01	0.02	50.00	0.000	0.292	0.00
6	12:36	0.99	0.960	0.99	0.18	50.00	0.001	0.208	0.00
7	12:33	1.00	0.956	1.00	0.12	50.00	0.001	0.573	0.00
8	12:46	1.00	0.972	1.00	0.02	50.00	0.000	0.320	0.00
9	13:01	1.00	0.991	1.00	0.18	50.00	0.001	0.333	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
10	13:11	1.00	1.004	1.00	0.09	50.00	0.002	1.020	0.00
11	13:27	1.00	1.024	1.00	0.03	50.00	0.000	0.441	0.00
12	13:47		1.050						
13	15:01	1.00	1.144	1.00	0.07	50.00	0.001	0.455	0.00
14	15:20	1.00	1.167	1.00	0.54	50.00	0.007	0.684	0.01
15	11:04	1.00	0.843	1.00	36.15	50.00	0.394	0.546	0.72

MID MASS SPECTRUM
08/25/87 21:02:00 + 15:20
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 148 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #957
CALI: 14558N2R #2

BASE M/Z: 142
RIC: 36608.

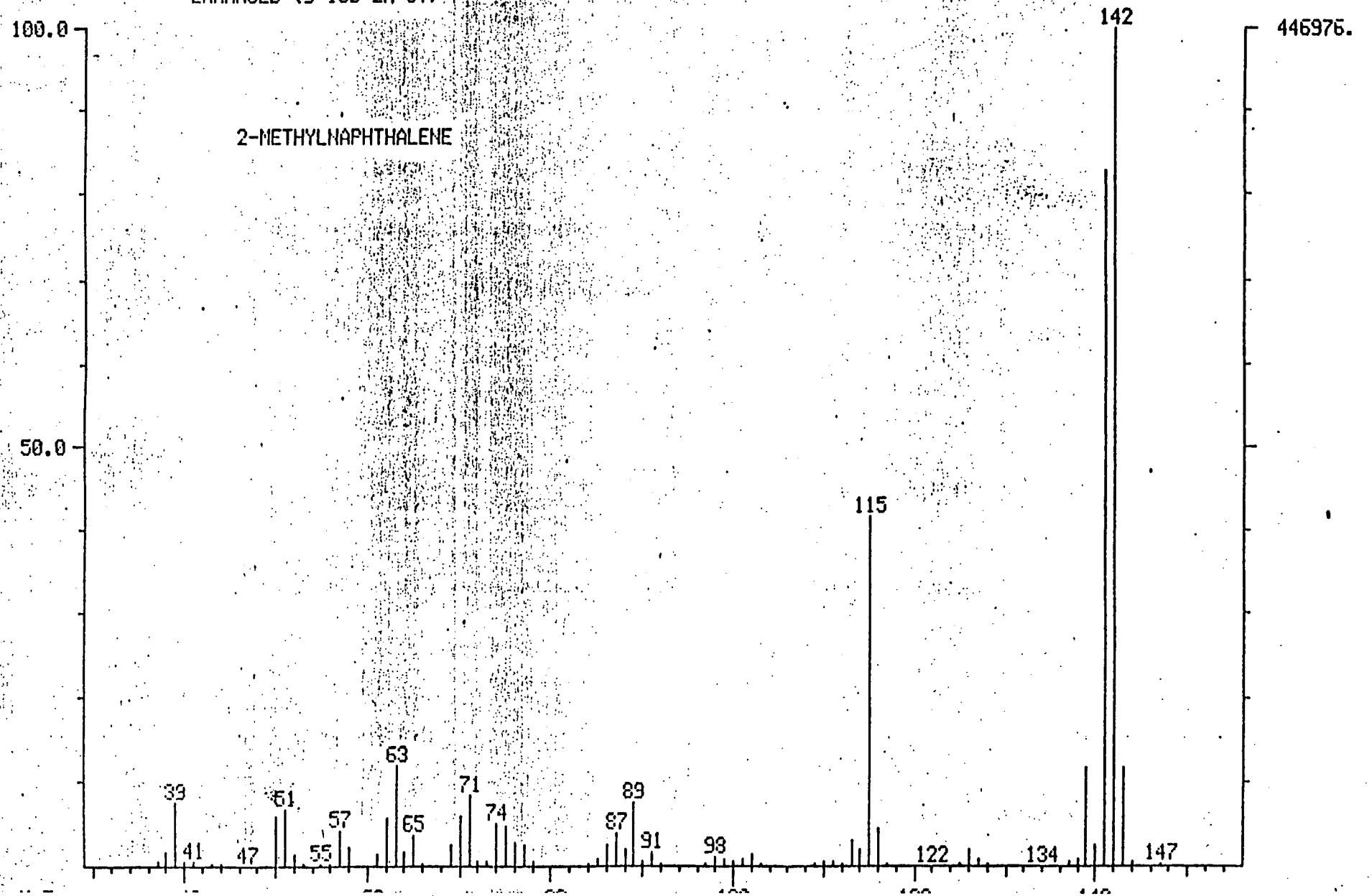


1232

MID MASS SPECTRUM
03/17/87 17:10:00 + 18:15
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 171 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1137
CALI: HSC50317 #2

BASE M/Z: 142
RIC: 1699830.

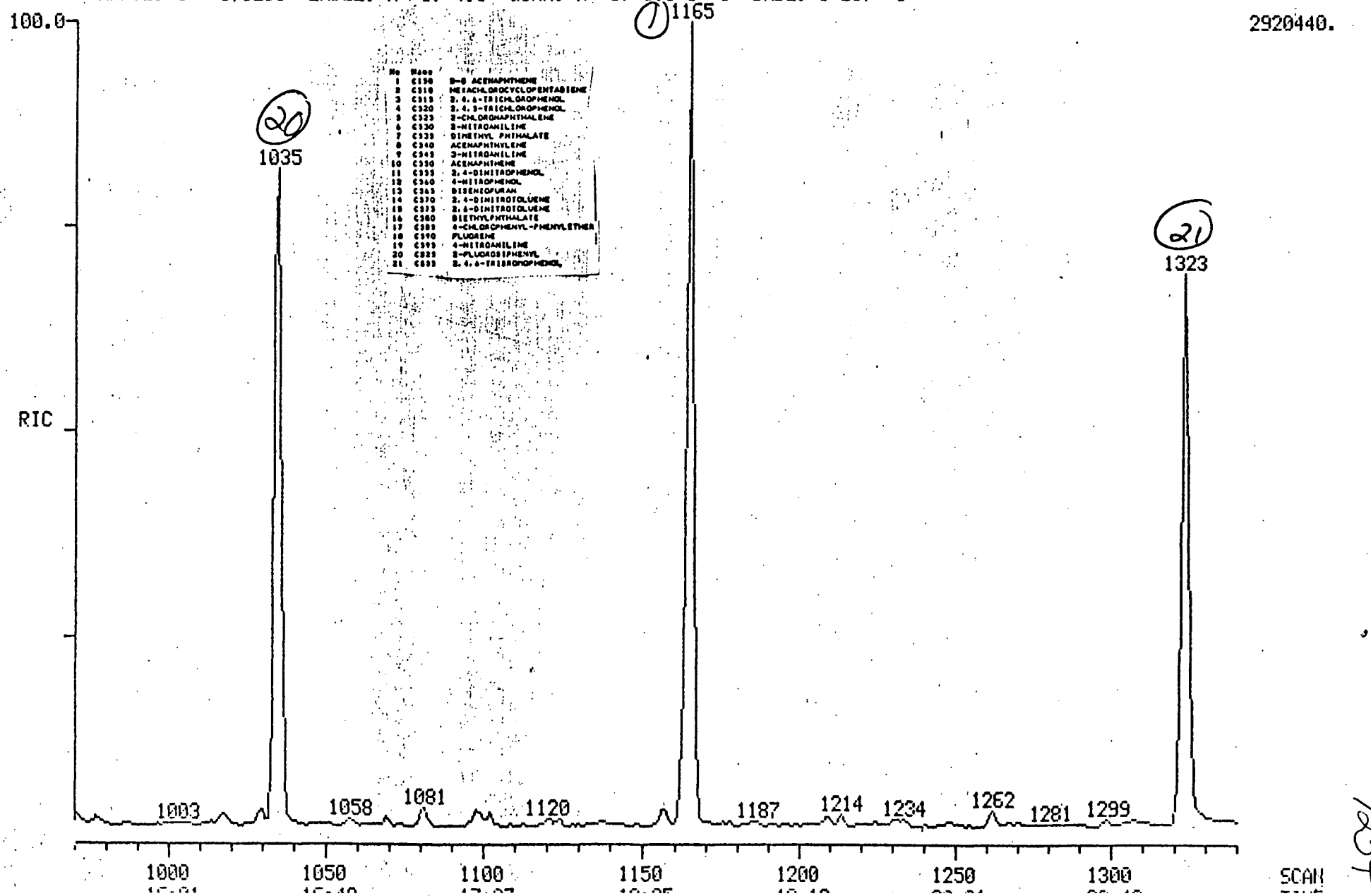


1233

MIDRIC
08/25/87 21:02:00
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558N2R #1
CALI: 14558N2R #2

SCANS 970 TO 1340



Quantitation Report File: 14558N2R

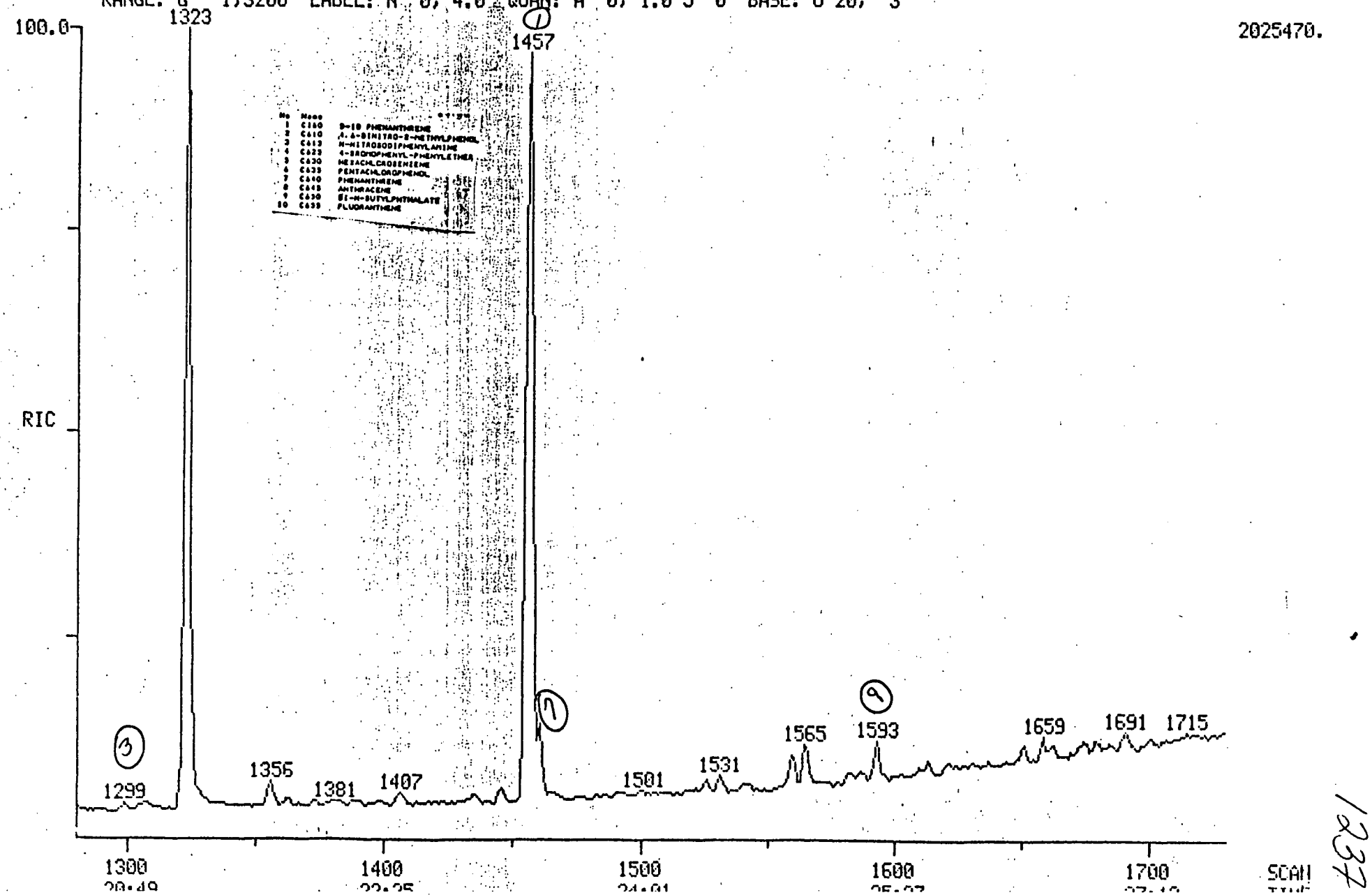
Data: 14558N2R.TI
08/25/87 21:02:00
Sample: 14558-2
Conds.: 10.11GMS/1.0ML 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14588N2R

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

No	Name		
1	C150	D-8 ACENAPHTHENE	(INT. STD.)
2	C510	HEXACHLOROCYCLOPENTADIENE	**
3	C515	2,4,6-TRICHLOROPHENOL	*
4	C520	2,4,5-TRICHLOROPHENOL	
5	C525	2-CHLORONAPHTHALENE	
6	C530	2-NITROANILINE	
7	C535	DIMETHYL PHTHALATE	
8	C540	ACENAPHTHYLENE	
9	C545	3-NITROANILINE	
10	C550	ACENAPHTHENE	*
11	C555	2,4-DINITROPHENOL	**
12	C560	4-NITROPHENOL	**
13	C565	DIBENZOFURAN	
14	C570	2,4-DINITROTOLUENE	
15	C543	2,6-DINITROTOLUENE	
16	C580	DIETHYLPHTHALATE	
17	C585	4-CHLOROPHENYL-PHENYLETHER	
18	C590	FLUORENE	
19	C595	4-NITROANILINE	
20	CS25	2-FLUOROBIPHENYL	(SURROGATE)
21	CS55	2,4,6-TRIBROMOPHENOL	(SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	164	1165	18:39	1	1.000	A BB	1308760.	40.000	NG	24.78	
2	NOT FOUND										
3	NOT FOUND										
4	NOT FOUND										
5	162	1046	16:45	1	0.898	A BB	~~1152.~~	~~0.030~~	~~NG~~	~~0.02~~	NO
6	65	1081	17:19	1	0.928	A*BB	~~2272.~~	~~0.102~~	~~NG~~	~~0.06~~	NO
7	163	1125	18:01	1	0.966	A*BB	~~768.~~	~~0.015~~	~~NG~~	~~0.01~~	NO
8	152	1137	18:13	1	0.976	A*BB	~~2944.~~	~~0.050~~	~~NG~~	~~0.03~~	NO
9	138	1163	18:37	1	0.998	A BB	~~576.~~	~~0.056~~	~~NG~~	~~0.03~~	NO
10	153	1170	18:44	1	1.004	A BB	~~2496.~~	~~0.062~~	~~NG~~	~~0.04~~	NO
11	NOT FOUND										
12	139	1203	19:16	1	1.033	A BB	~~832.~~	~~0.162~~	~~NG~~	~~0.10~~	NO
13	168	1203	19:16	1	1.033	A BB	~~1728.~~	~~0.031~~	~~NG~~	~~0.02~~	NO
14	89	1214	19:27	1	1.042	A BB	~~256.~~	~~0.016~~	~~NG~~	~~0.01~~	NO
15	NOT FOUND										
16	149	1267	20:17	1	1.088	A*BB	~~7552.~~	~~0.134~~	~~NG~~	~~0.08~~	NO
17	NOT FOUND										
18	166	1270	20:20	1	1.090	A BB	~~4096.~~	~~0.094~~	~~NG~~	~~0.06~~	NO
19	138	1291	20:40	1	1.108	A BB	~~288.~~	~~0.022~~	~~NG~~	~~0.02~~	NO
20	172	1035	16:35	1	0.888	A BV	1531760.	39.746	NG	24.62	YES
21	330	1323	21:11	1	1.136	A BV	365728.	80.894	NG	50.11	YES

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:04		0.860						
3	16:20		0.875						
4	16:27		0.881						
5	16:51	0.99	0.902	1.00	0.03	50.00	0.001	1.160	0.00
6	17:19	1.00	0.927	1.00	0.10	50.00	0.001	0.681	0.00
7	18:02	1.00	0.966	1.00	0.02	50.00	0.000	1.519	0.00
8	18:10	1.00	0.973	1.00	0.05	50.00	0.002	1.815	0.00
9	18:37	1.00	0.997	1.00	0.06	50.00	0.000	0.313	0.00
10	18:45	1.00	1.004	1.00	0.06	50.00	0.002	1.215	0.00
11	18:57		1.015						
12	19:14	1.00	1.030	1.00	0.16	50.00	0.001	0.156	0.00
13	19:16	1.00	1.032	1.00	0.03	50.00	0.001	1.717	0.00
14	19:27	1.00	1.041	1.00	0.02	50.00	0.000	0.475	0.00
15	18:13		0.976						
16	20:18	1.00	1.087	1.00	0.14	50.00	0.005	1.702	0.00
17	20:25		1.093						
18	20:22	1.00	1.091	1.00	0.09	50.00	0.003	1.325	0.00
19	20:35	1.00	1.102	1.01	0.03	50.00	0.000	0.277	0.00
20	16:35	1.00	0.889	1.00	39.75	50.00	0.936	1.178	0.79
21	21:12	1.00	1.136	1.00	80.89	50.00	0.224	0.138	1.62


MIDRIC
08/25/87 21:02:00
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558N2R #1
CALI: 14558N2R #2
SCANS 1280 TO 1730
100.0
2025470.
RIC
1323
1457
1299
1356
1381
1407
1501
1531
1565
1593
1659
1691
1715
1300
1400
1500
1600
1700
SCAN

1238

Quantitation Report File: 14558N2R

Data: 14558N2R.TI
08/25/87 21:02:00
Sample: 14558-2
Conds.: 10.11GMS/1.0ML 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14588N2R

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

No	Name		
1	C160	D-10 PHENANTHRENE	(INT. STD.)
2	C610	4,6-DINITRO-2-METHYLPHENOL	
3	C615	N-NITROSODIPHENYLAMINE	*
4	C625	4-BROMOPHENYL-PHENYLETHER	
5	C630	HEXACHLOROBENZENE	
6	C635	PENTACHLOROPHENOL	*
7	C640	PHENANTHRENE	
8	C645	ANTHRACENE	
9	C650	DI-N-BUTYLPHTHALATE	
10	C655	FLUORANTHENE	*

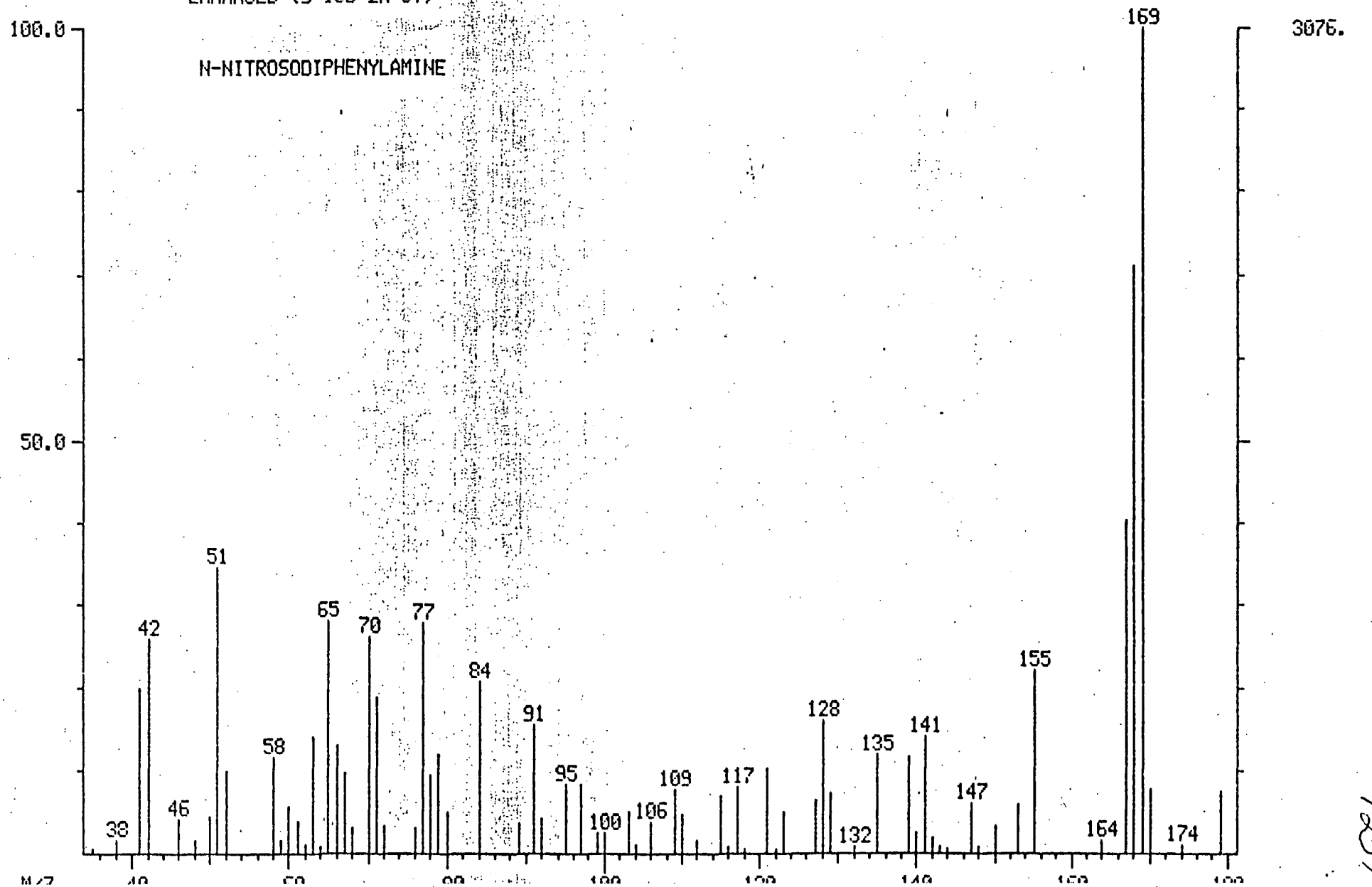
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	188	1456	23:19	1	1.000	A BB	1828090.	40.000 NG	88.85	
2	NOT FOUND									
3	169	1299	20:48	1	0.892	A BV	13966.	0.586 NG	1.30	yes OOJ
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	178	1461	23:24	1	1.003	A BV	123488.	2.571 NG	5.71	yes OOJ
8	178	1470	23:32	1	1.010	A VB	~~7228.~~	~~0.147 NG~~	~~0.33~~	NO OOJ
9	149	1593	25:31	1	1.094	A BV	101460.	1.410 NG	3.13	yes OOJ
10	202	1700	27:13	1	1.168	A VB	~~14963.~~	~~0.302 NG~~	~~0.67~~	NO OOJ

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	23:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:43		0.888						
3	20:50	1.00	0.893	1.00	0.59	50.00	0.006	0.521	0.01
4	21:57		0.941						
5	22:23		0.960						
6	22:59		0.985						
7	23:25	1.00	1.003	1.00	2.57	50.00	0.054	1.051	0.05
8	23:33	1.00	1.010	1.00	0.15	50.00	0.003	1.073	0.00
9	25:32	1.00	1.094	1.00	1.41	50.00	0.044	1.574	0.03
10	27:15	1.00	1.168	1.00	0.30	50.00	0.007	1.079	0.01

MID MASS SPECTRUM
08/25/87 21:02:00 + 20:48
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 192 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #1299
CALI: 14558N2R #2

BASE M/Z: 169
RIC: 24384.

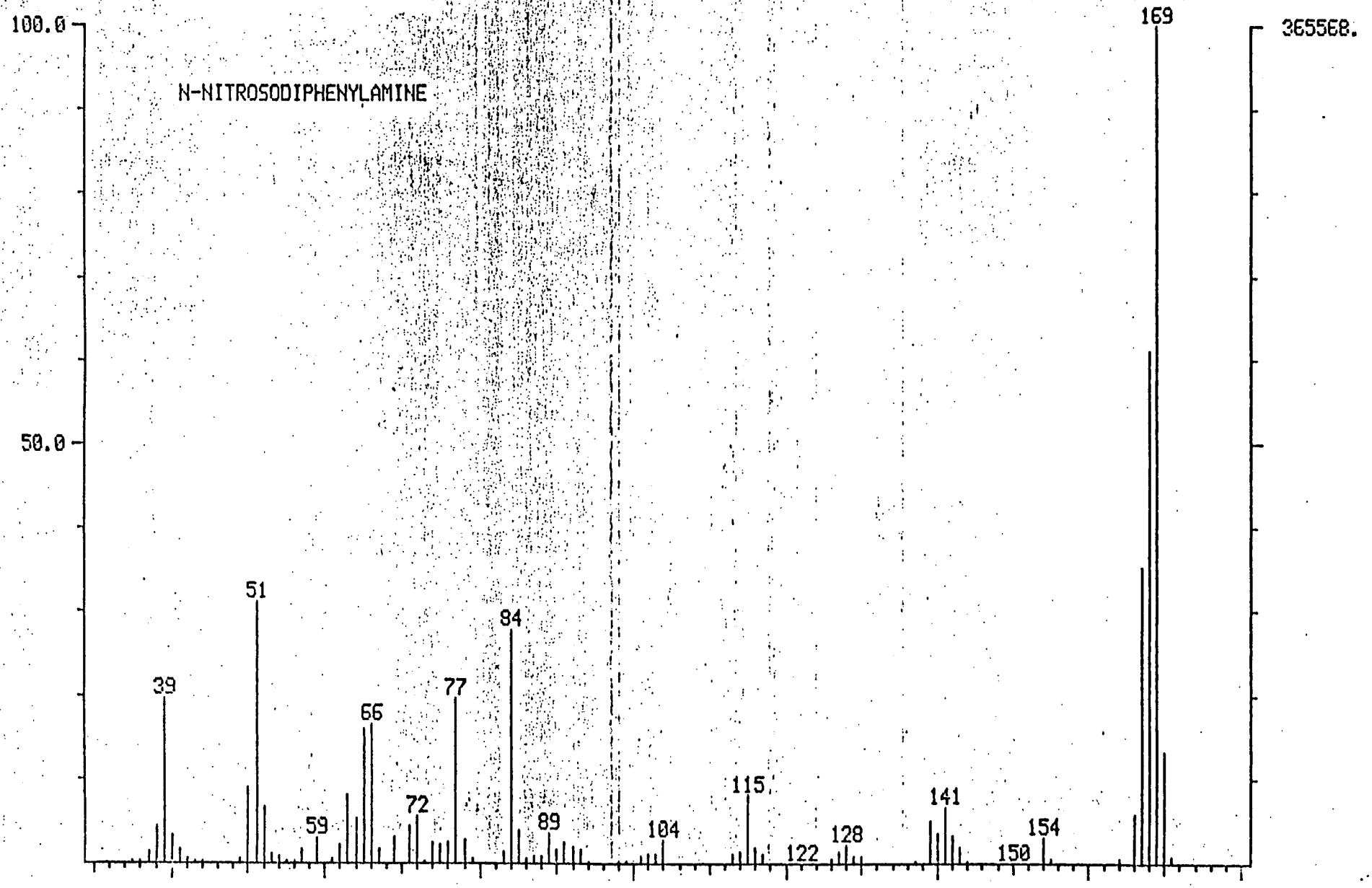


1239

MID MASS SPECTRUM
08/04/87 10:47:00 + 21:24
SAMPLE: HSL STANDARD 50NG
CONDS.: 1UL INJ.
GC TEMP: 199 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: N0804A5A #1324
CALI: N0804A5A #2

BASE M/Z: 169
RIC: 1808380.

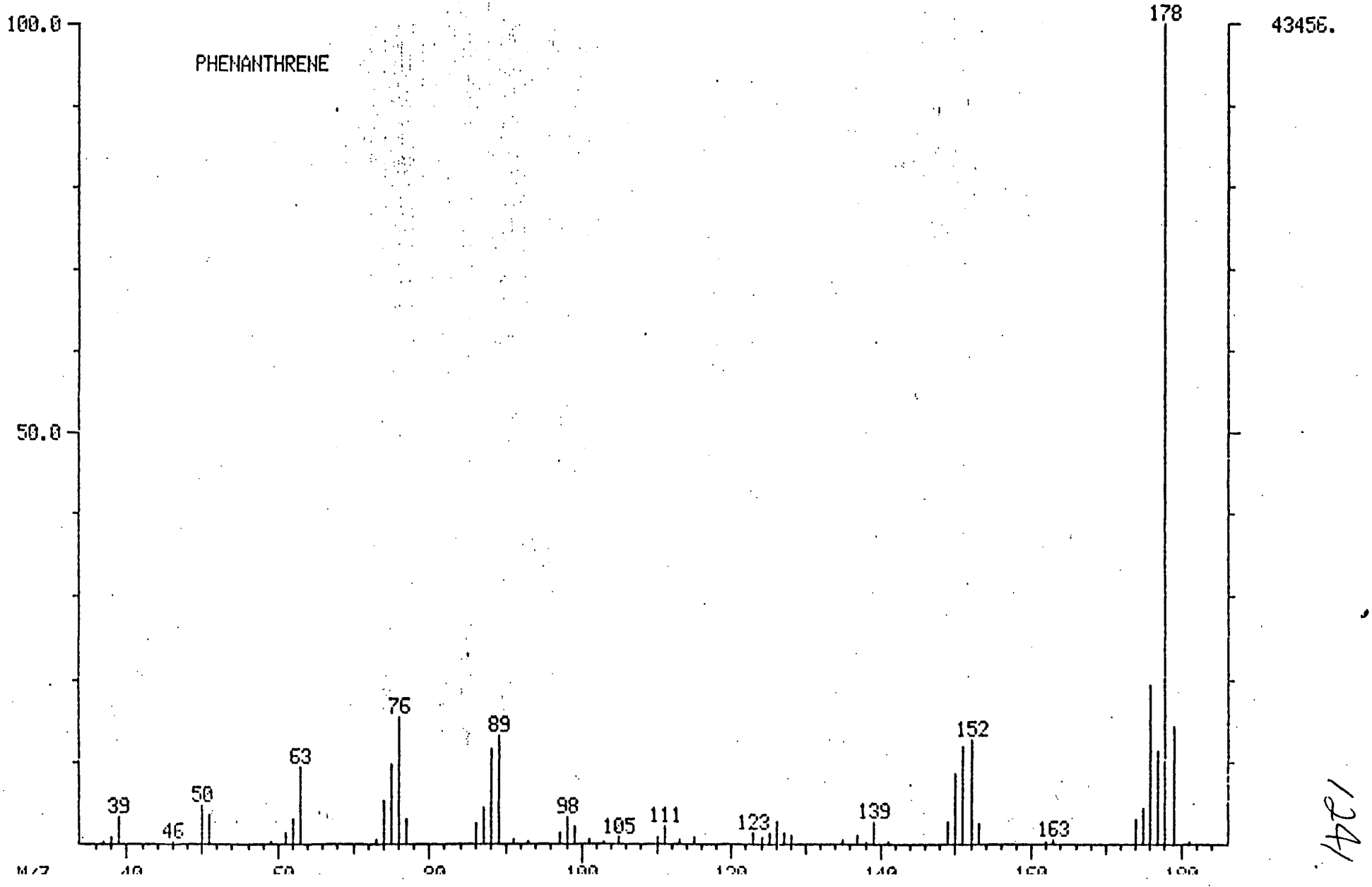


1240

MID MASS SPECTRUM
08/25/87 21:02:00 + 23:24
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 213 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #1461
CALI: 14558N2R #2

BASE M/Z: 178
RIC: 135936.

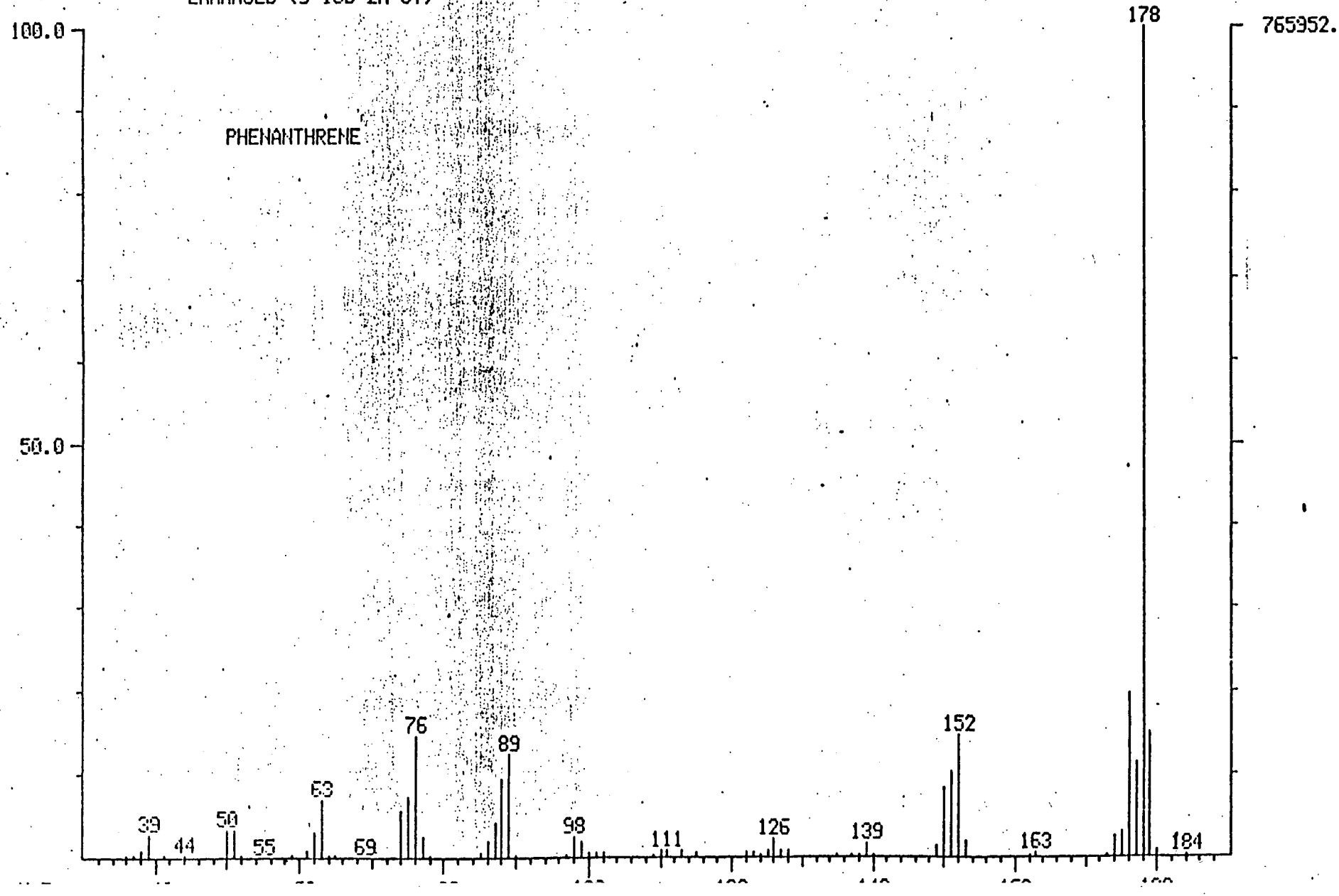


1241

MID MASS SPECTRUM
03/17/87 17:10:00 + 26:47
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 240 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1668
CALI: HSC50317 #2

BASE M/Z: 178
RIC: 2232310.

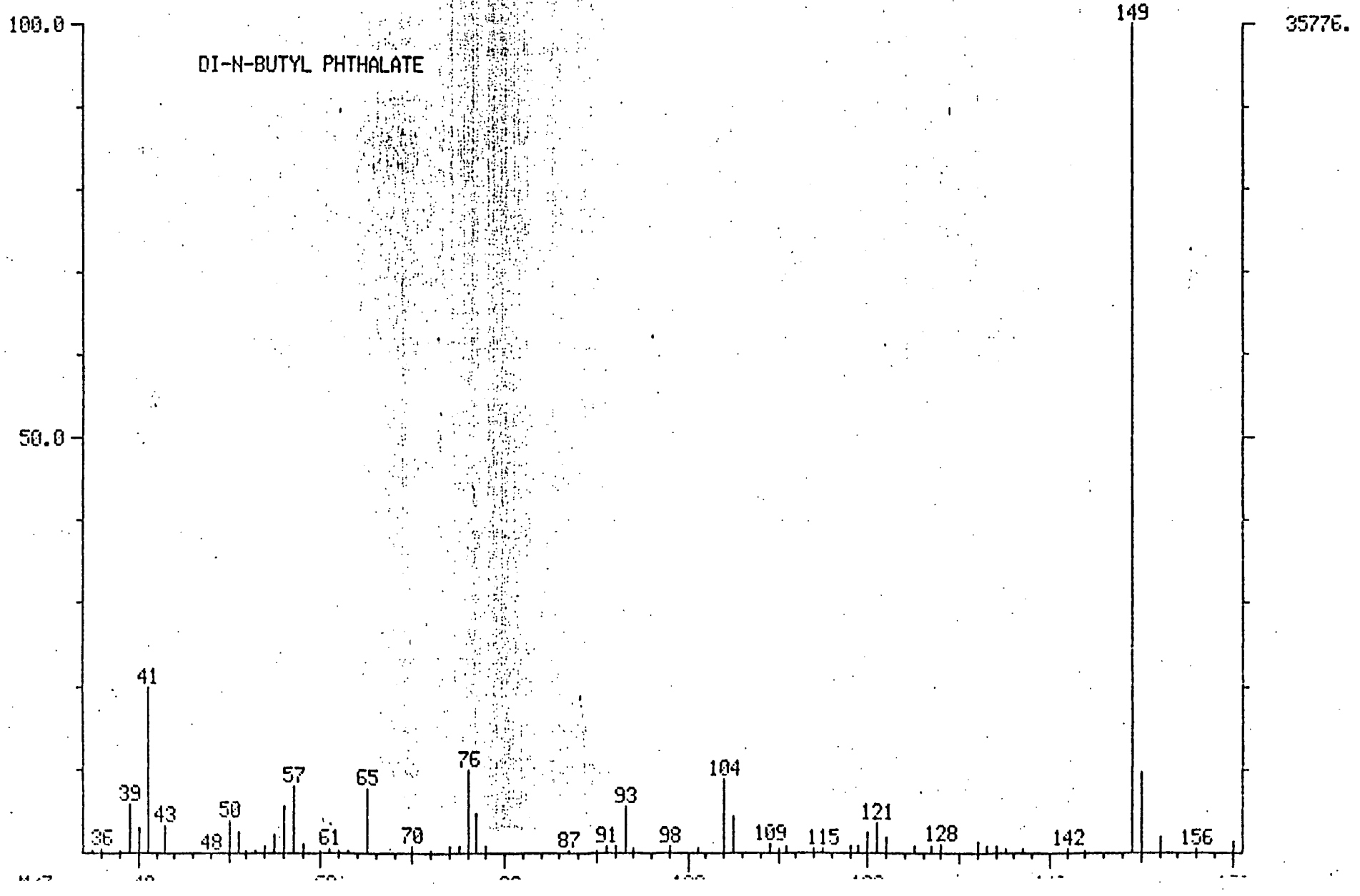


1242

MID MASS SPECTRUM
08/25/87 21:02:00 + 25:31
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 230 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #1593
CALI: 14558N2R #2

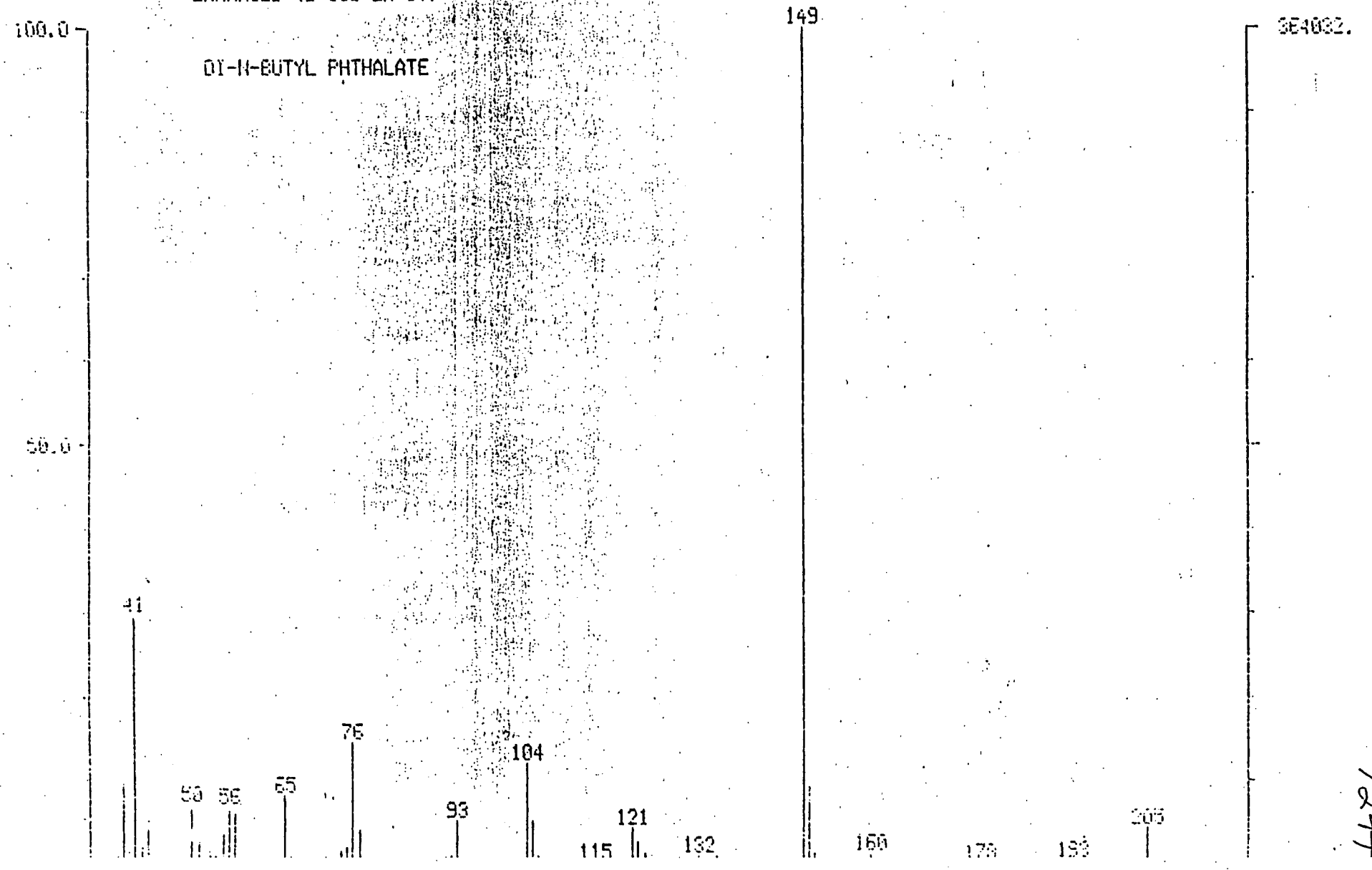
BASE M/Z: 149
RIC: 95360.



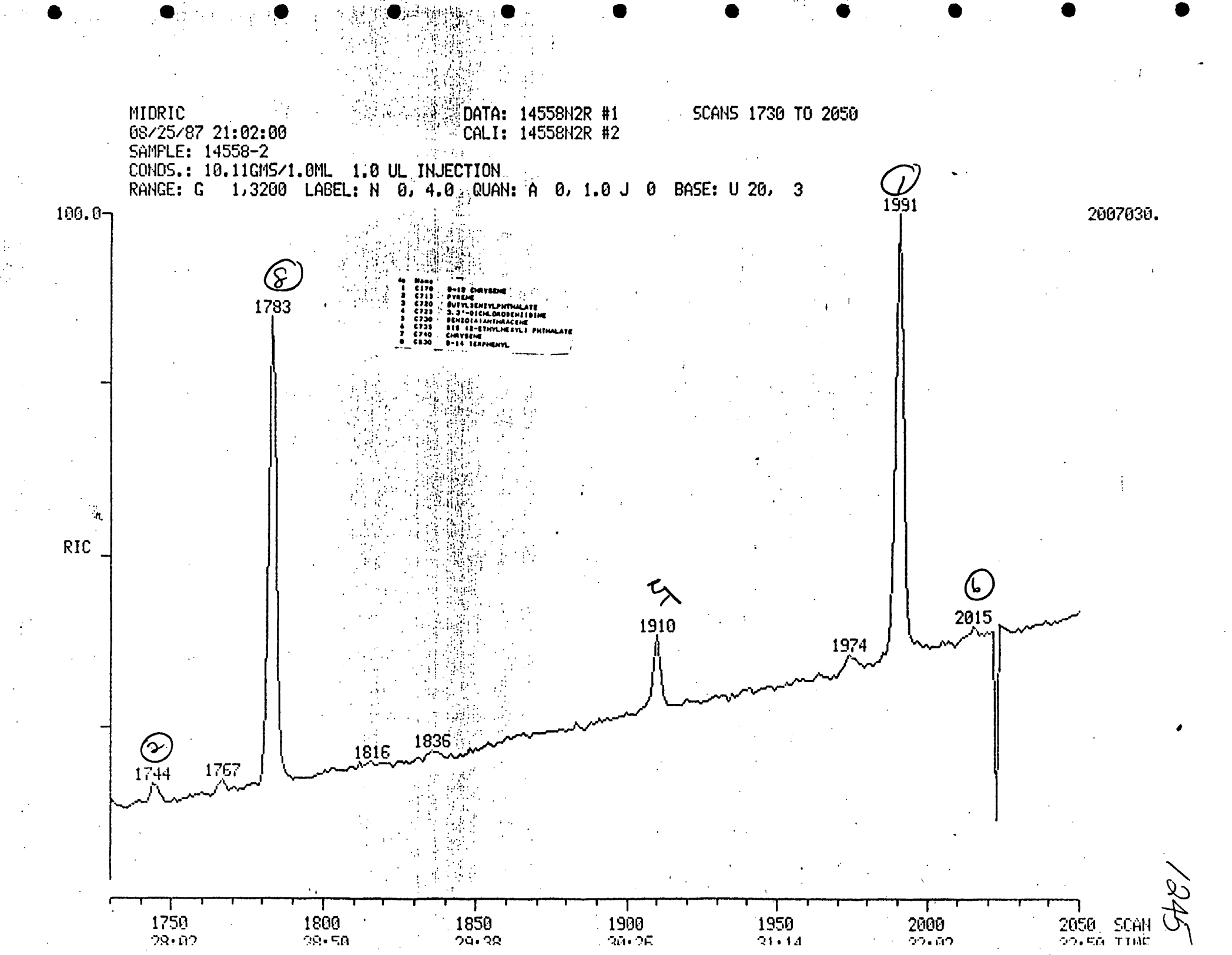
1243

MID MASS SPECTRUM
10/20/86 1:28:00 + 29:06
SAMPLE: HSL STANDARD 10/20/86 A.M.
CONDS.: 80 NG INJECTION
GC TEMP: 260 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSA801020A #1801 BASE M/Z: 149
CALI: HSA801020A #2 RIC: 1003520.



1244


MIDRIC
08/25/87 21:02:00
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558N2R #1
CALI: 14558N2R #2
SCANS 1730 TO 2050
100.0
RIC
2007030.
1744
1767
1783
1816
1836
1910
1974
1991
2015
1750
1800
1850
1900
1950
2000
2050
SCAN

Quantitation Report File: 14558N2R

Data: 14558N2R.TI
08/25/87 21:02:00
Sample: 14558-2
Conds.: 10.11GMS/1.0ML 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14588N2R

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

No	Name		
1	CI70	D-12 CHRYSENE	(INT. STD.)
2	C715	PYRENE	
3	C720	BUTYLBENZYLPHTHALATE	
4	C725	3,3'-DICHLOROBENZIDINE	
5	C730	BENZO(A)ANTHRACENE	
6	C745	BIS(2-ETHYLHEXYL) PHTHALATE	
7	C740	CHRYSENE	
8	CS30	D-14 TERPHENYL	(SURROGATE)

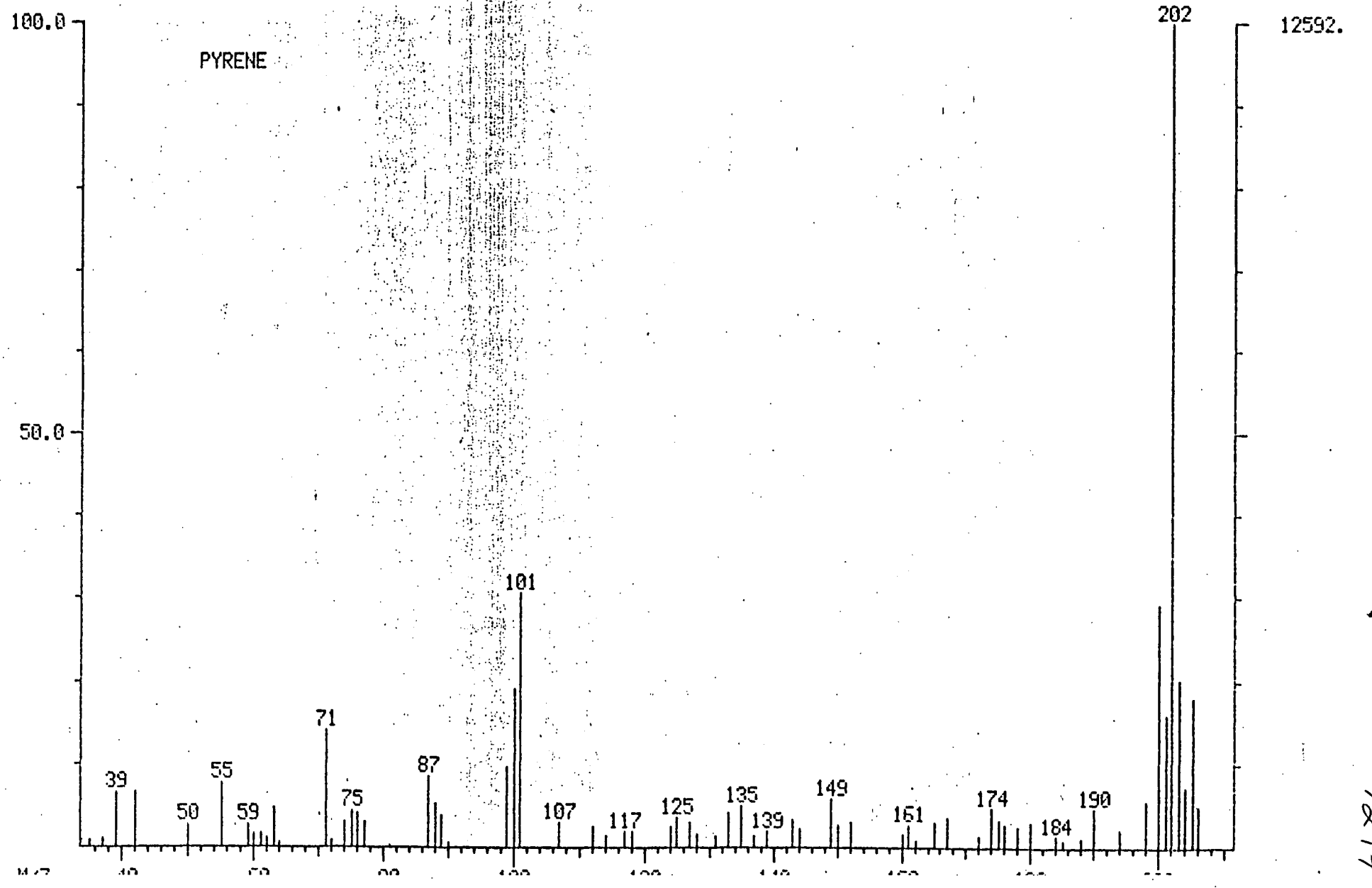
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	240	1991	31:53	1	1.000	A BV	1197820.	40.000 NG	42.66	
2	202	1744	27:56	1	0.876	M XX	52288.	1.413 NG	1.51	yes DOU
3	149	1897	30:23	1	0.953	A*VV	~~13571.~~	~~0.430 NG~~	~~0.43~~	no DOU
4	252	1990	31:52	1	0.999	A BV	~~7110.~~	~~0.762 NG~~	~~0.61~~	no DOU
5	228	1987	31:49	1	0.998	A BV	~~11782.~~	~~0.350 NG~~	~~0.37~~	no DOU
6	149	2015	32:16	1	1.012	A VB	68596.	1.981 NG	2.11	yes DOU
7	228	1996	31:58	1	1.003	A VV	~~23527.~~	~~0.901 NG~~	~~0.96~~	no DOU
8	244	1783	28:33	1	0.896	A BB	1131950.	47.905 NG	51.09	yes DOU

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	31:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	27:57	1.00	0.876	1.00	1.41	50.00	0.035	1.236	0.03
3	30:19	1.00	0.950	1.00	0.45	50.00	0.007	0.786	0.01
4	31:52	1.00	0.999	1.00	0.76	50.00	0.005	0.311	0.02
5	31:51	1.00	0.998	1.00	0.35	50.00	0.008	1.125	0.01
6	32:18	1.00	1.013	1.00	1.98	50.00	0.046	1.156	0.04
7	32:00	1.00	1.003	1.00	0.90	50.00	0.019	1.058	0.02
8	28:34	1.00	0.896	1.00	47.91	50.00	0.756	0.789	0.96

MID MASS SPECTRUM
08/25/87 21:02:00 + 27:56
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 250 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #1744
CALI: 14558N2R #2

BASE M/Z: 202
RIC: 65920.

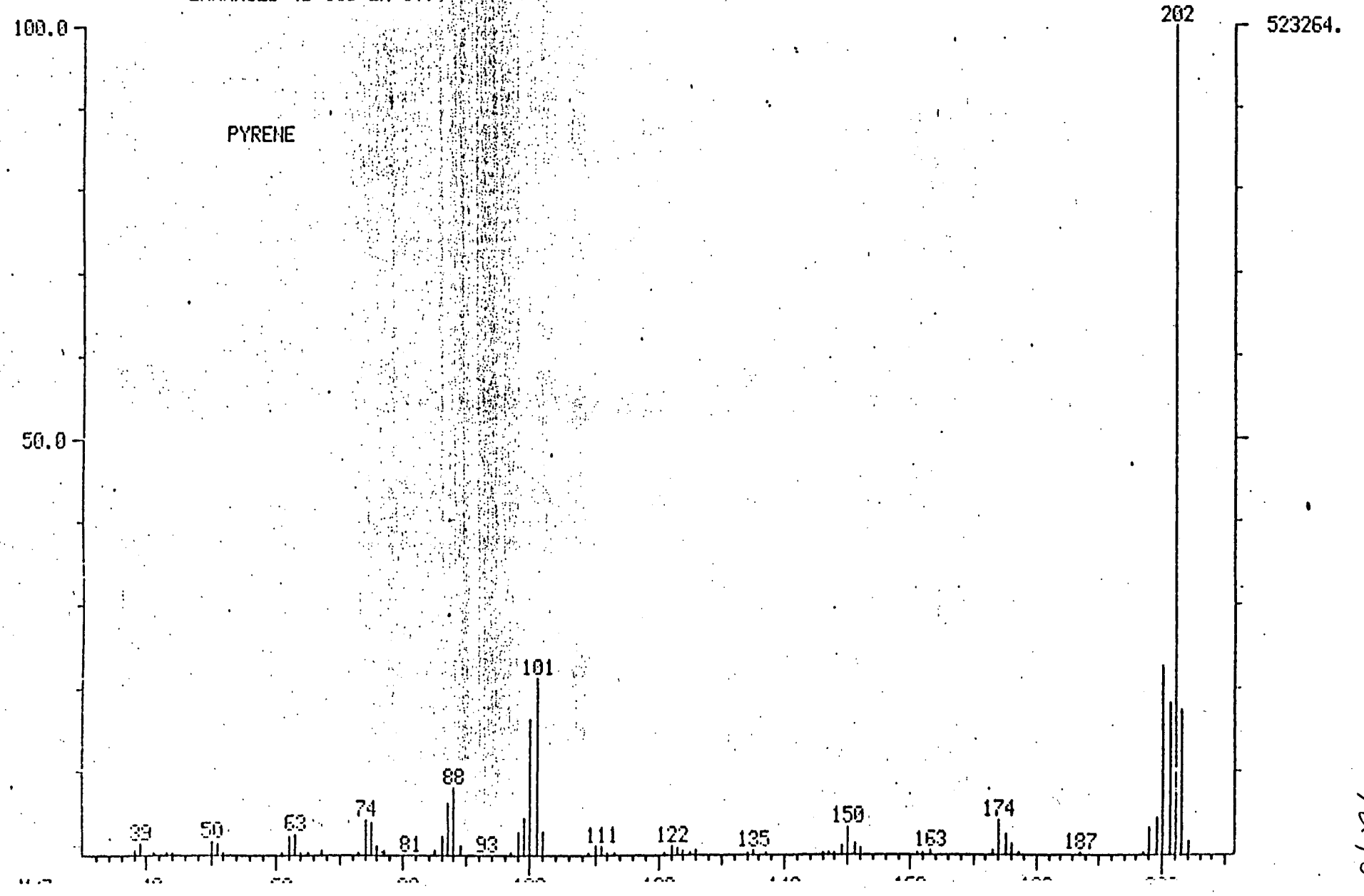


1247

MID MASS SPECTRUM
03/17/87 17:10:00 + 31:34
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 279 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1966
CALI: HSC50317 #2

BASE M/Z: 202
RIC: 1476600.

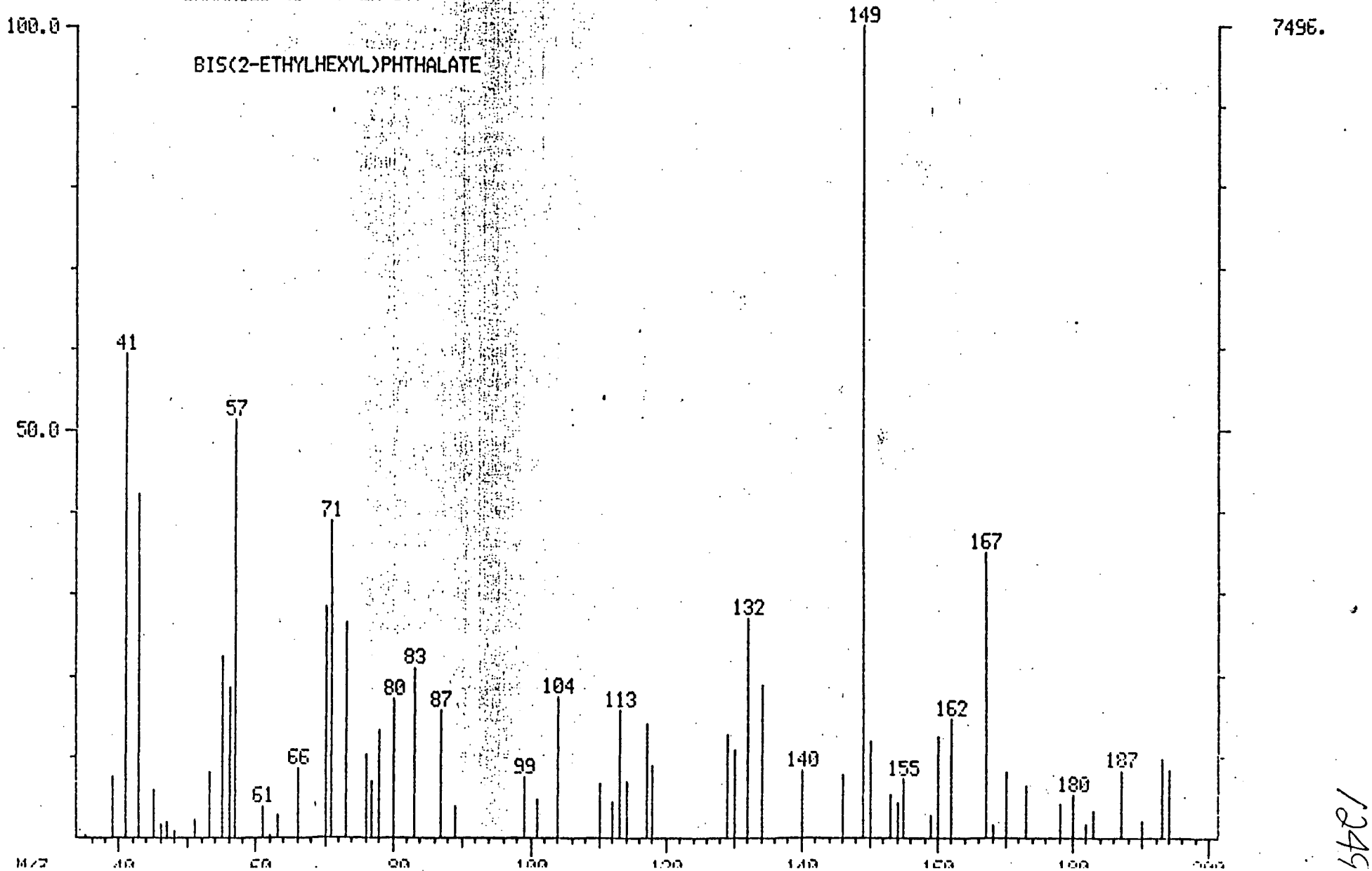


1248

MID MASS SPECTRUM
08/25/87 21:02:00 + 32:16
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 284 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #2015
CALI: 14558N2R #2

BASE M/Z: 149
RIC: 87168.

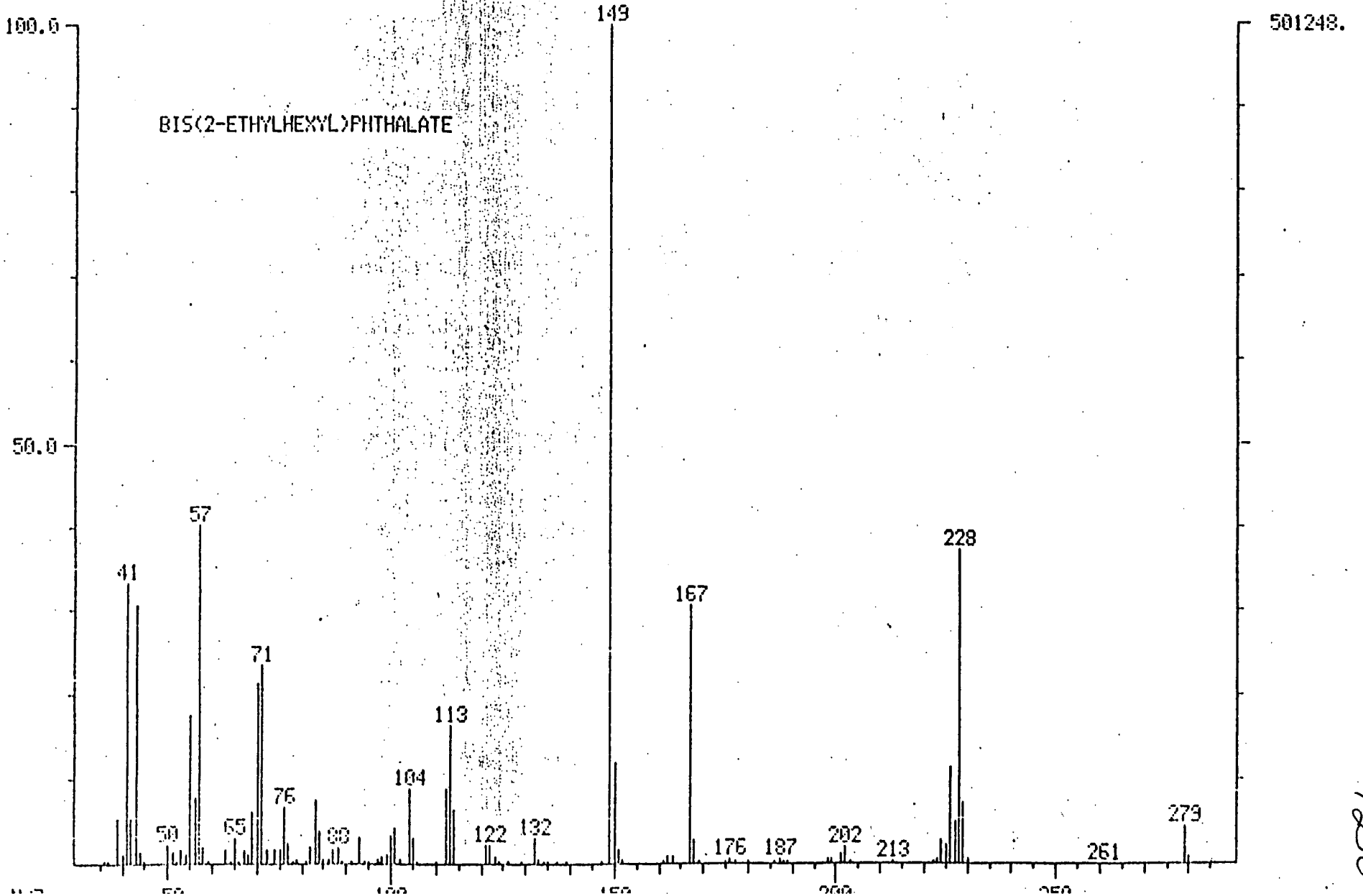


1249

MID MASS SPECTRUM
03/17/87 17:10:00 + 36:26
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #2269
CALI: HSC50317 #2

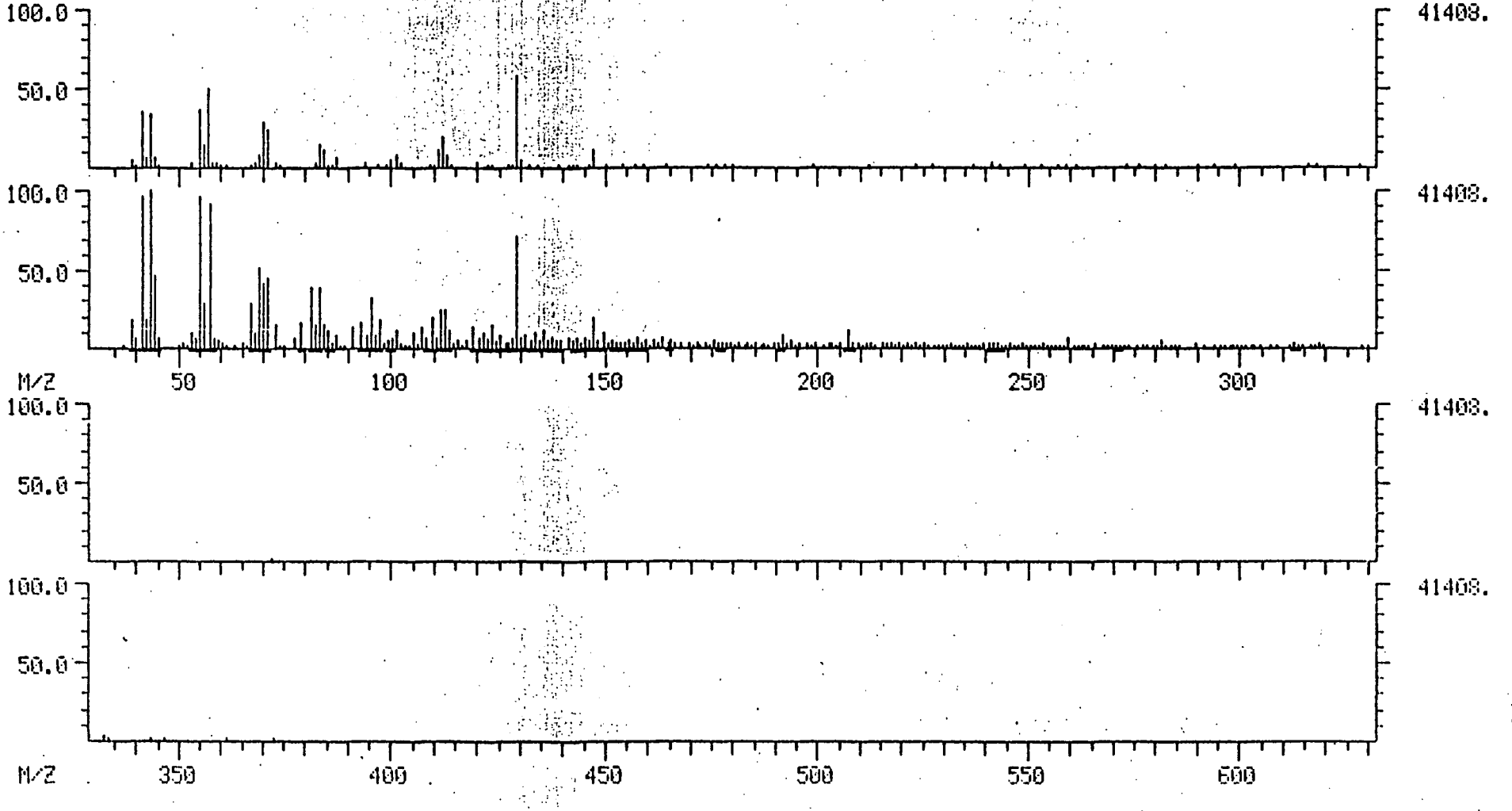
BASE M/Z: 149
RIC: 2727930.



1250

MID DUAL MASS SPECTRUM
08/25/87 21:02:00 + 30:35
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 271 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #1910 BASE M/Z: 129/ 43
CALI: 14558N2R #2 RIC: 225535./ 766975.

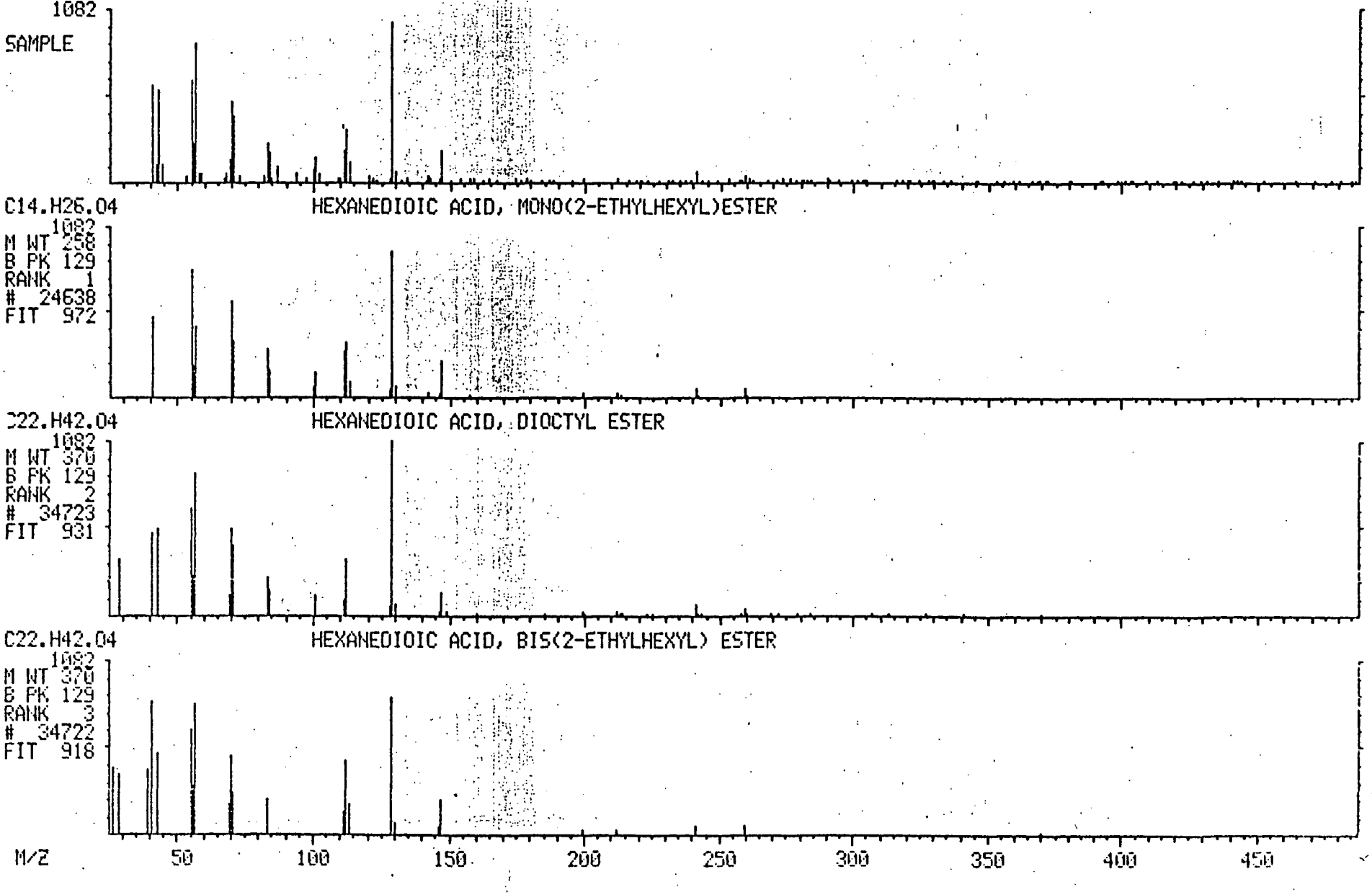


1951

MID LIBRARY SEARCH
08/25/87 21:02:00 + 30:35
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #1910
CALI: 14558N2R # 2

BASE M/Z: 129
RIC: 215551.



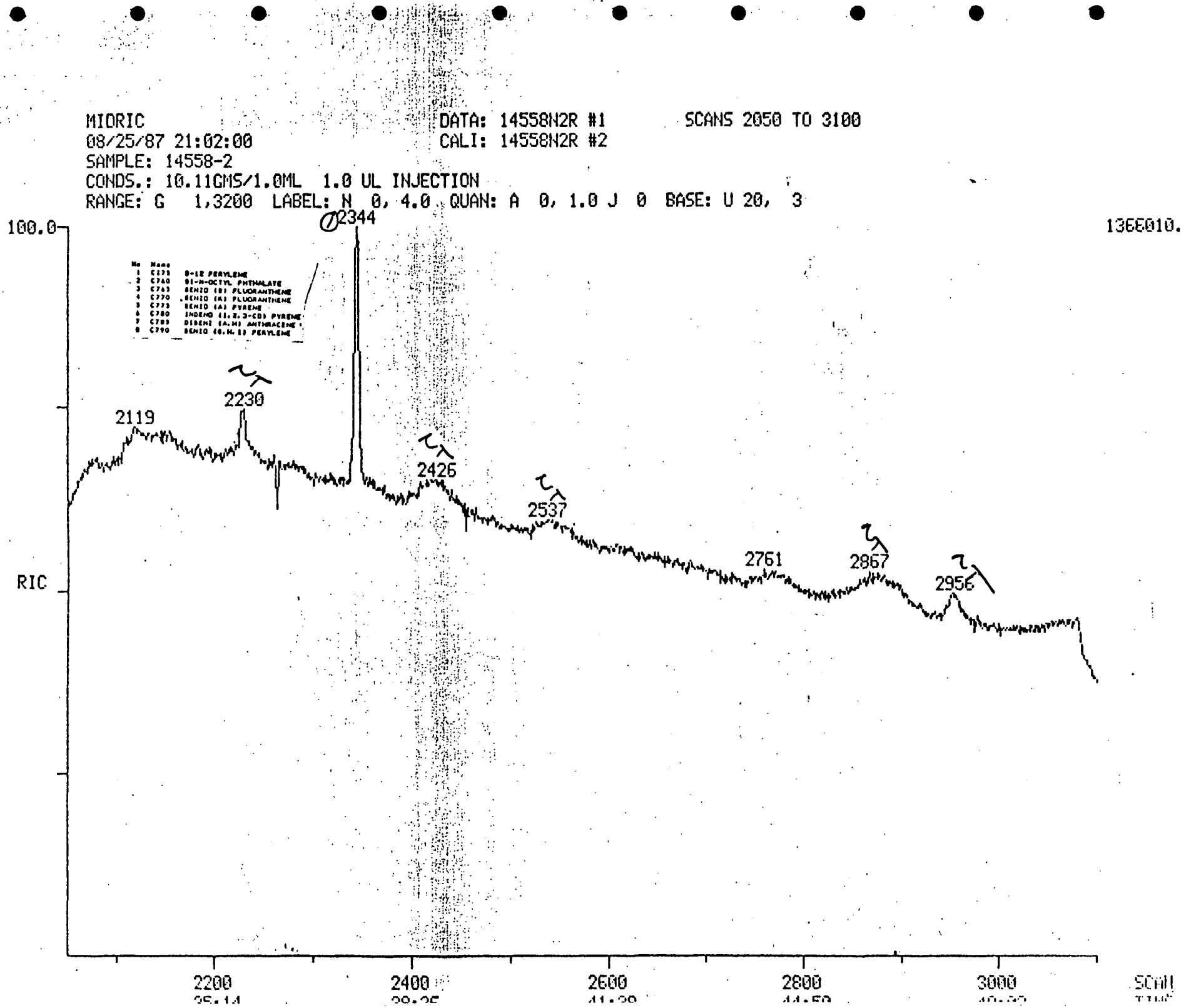
1252

MID Library Search Data: 14558N2R #1910 Base m/z: 129
08/25/87 21:02:00 + 30:35 Cali: 14558N2R # 2 RIC: 215551.
Sample: 14558-2
Conds.: 10.11GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	24638	HEXANEDIOIC ACID, MONO(2-ETHYLHEXYL)ESTER
2	34723	HEXANEDIOIC ACID, DIOCTYL ESTER
3	34722	HEXANEDIOIC ACID, BIS(2-ETHYLHEXYL) ESTER
4	11038	1-DECENE, 2,4-DIMETHYL-
5	13915	DECANE, 2,6,7-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H26.O4	258	129	569	972	576
2	C22.H42.O4	370	129	561	931	592
3	C22.H42.O4	370	129	519	918	558
4	C12.H24	168	57	324	912	338
5	C13.H28	184	57	292	902	301

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	4337-65-9
2	___	___	___	___	123-79-5
3	___	___	___	___	103-23-1
4	___	___	___	___	55170-80-4
5	___	___	___	___	62108-25-2


MIDRIC
08/25/87 21:02:00
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558N2R #1
CALI: 14558N2R #2
SCANS 2050 TO 3100
13EE010.
100.0
RIC
2119
2230
2344
2426
2537
2761
2867
2956
2200
2400
2600
2800
3000
SCAN

1254

Quantitation Report File: 14558N2R

Data: 14558N2R.TI
08/25/87 21:02:00
Sample: 14558-2
Conds.: 10.11GMS/1.0ML 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14588N2R

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

No	Name		
1	CI75	D-12 PERYLENE	(INT. STD.)
2	C760	DI-N-OCTYL PHTHALATE	*
3	C765	BENZO (B) FLUORANTHENE	
4	C770	BENZO (K) FLUORANTHENE	
5	C775	BENZO (A) PYRENE	*
6	C780	INDENO (1,2,3-CD) PYRENE	
7	C785	DIBENZ (A,H) ANTHRACENE	
8	C790	BENZO (G,H,I) PERYLENE	

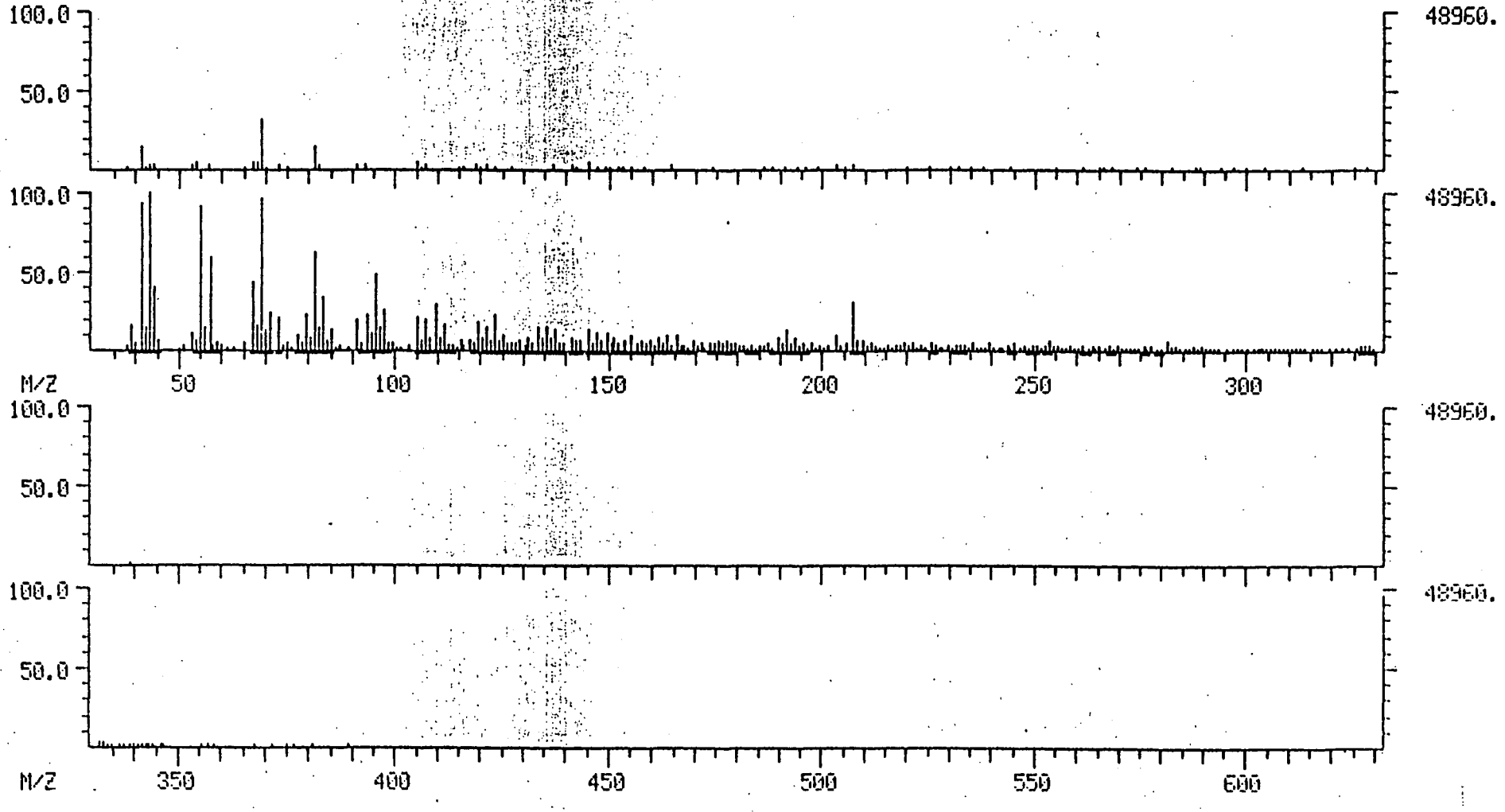
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	2344	37:32	1	1.000	A BV	853837.	40.000 NG	94.88
2	149	2149	34:25	1	0.917	A*BV	~~14922.~~	~~0.122 NG~~	~~0.27~~ NO
3	252	2232	35:45	1	0.952	A*BB	~~14844.~~	~~0.341 NG~~	~~0.81~~ NO
4	252	2232	35:45	1	0.952	A BB	~~12352.~~	~~0.296 NG~~	~~0.70~~ NO
5	252	2326	37:15	1	0.992	A BB	~~8000.~~	~~0.248 NG~~	~~0.57~~ NO
6	276	2777	44:28	1	1.185	A*BV	~~1917.~~	~~0.115 NG~~	~~0.27~~ NO
7	278	2794	44:45	1	1.192	A*BB	~~4512.~~	~~0.321 NG~~	~~0.76~~ NO
8	276	2911	46:37	1	1.242	A*BB	~~10284.~~	~~0.706 NG~~	~~1.67~~ NO

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	37:33	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	34:27	1.00	0.917	1.00	0.12	50.00	0.014	5.718	0.00
3	35:48	1.00	0.953	1.00	0.34	50.00	0.014	2.053	0.01
4	35:53	1.00	0.956	1.00	0.31	50.00	0.012	1.888	0.01
5	37:17	1.00	0.993	1.00	0.25	50.00	0.007	1.514	0.00
6	44:24	1.00	1.182	1.00	0.11	50.00	0.002	0.741	0.00
7	44:42	1.00	1.190	1.00	0.32	50.00	0.004	0.658	0.01
8	46:28	1.00	1.238	1.00	0.71	50.00	0.010	0.682	0.01

MID DUAL MASS SPECTRUM
08/25/87 21:02:00 + 35:43
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #2230
CALI: 14558N2R #2

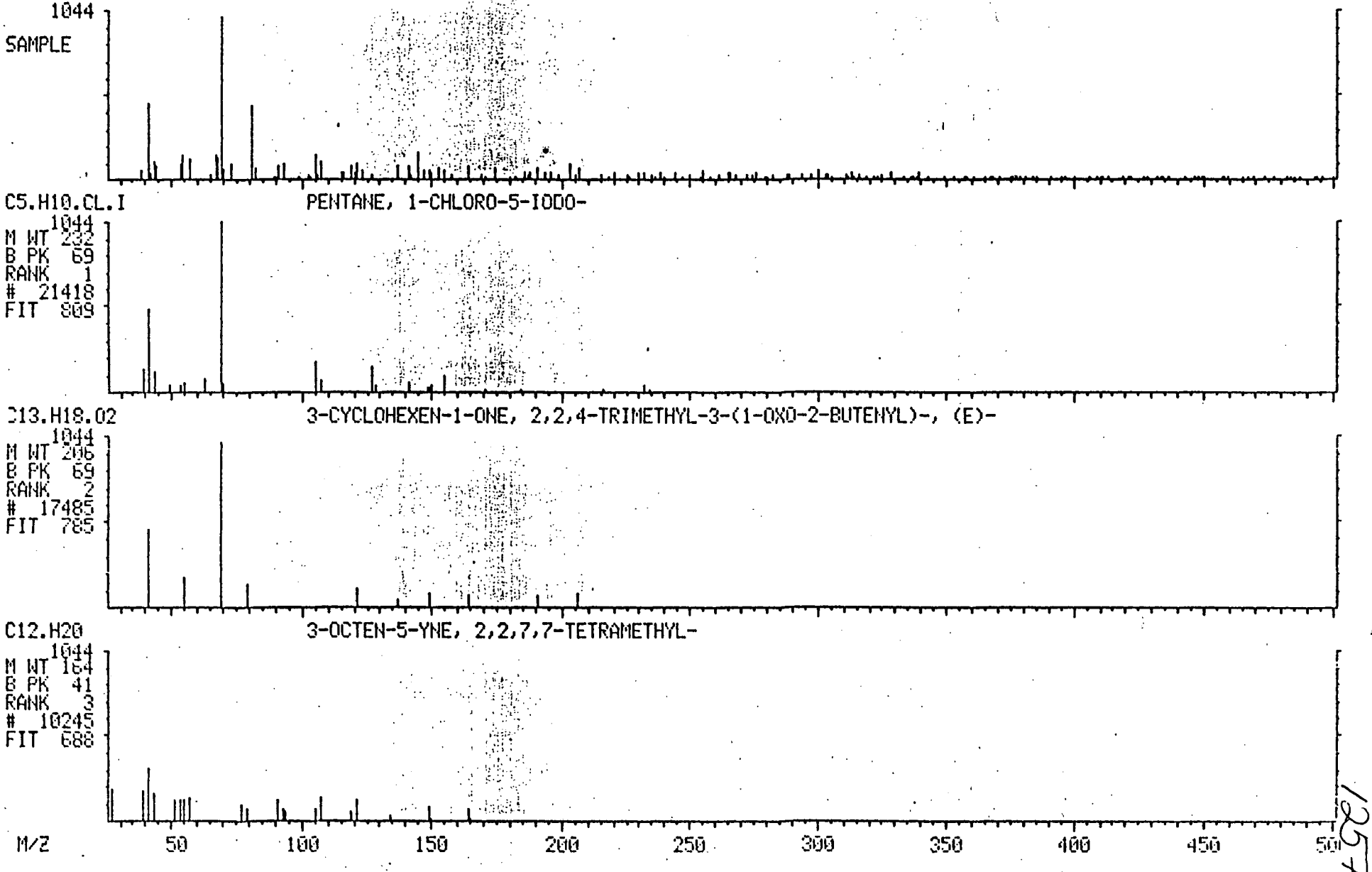
BASE M/Z: 69/ 43
RIC: 114303./ 1012730.



126

MID LIBRARY SEARCH
08/25/87 21:02:00 + 35:43
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #2230 BASE M/Z: 69
CALI: 14558N2R # 2 RIC: 110847.



1254

MID Library Search Data: 14558N2R #2230 Base m/z: 69
08/25/87 21:02:00 + 35:43 Cali: 14558N2R # 2 RIC: 110847.
Sample: 14558-2
Conds.: 10.11GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

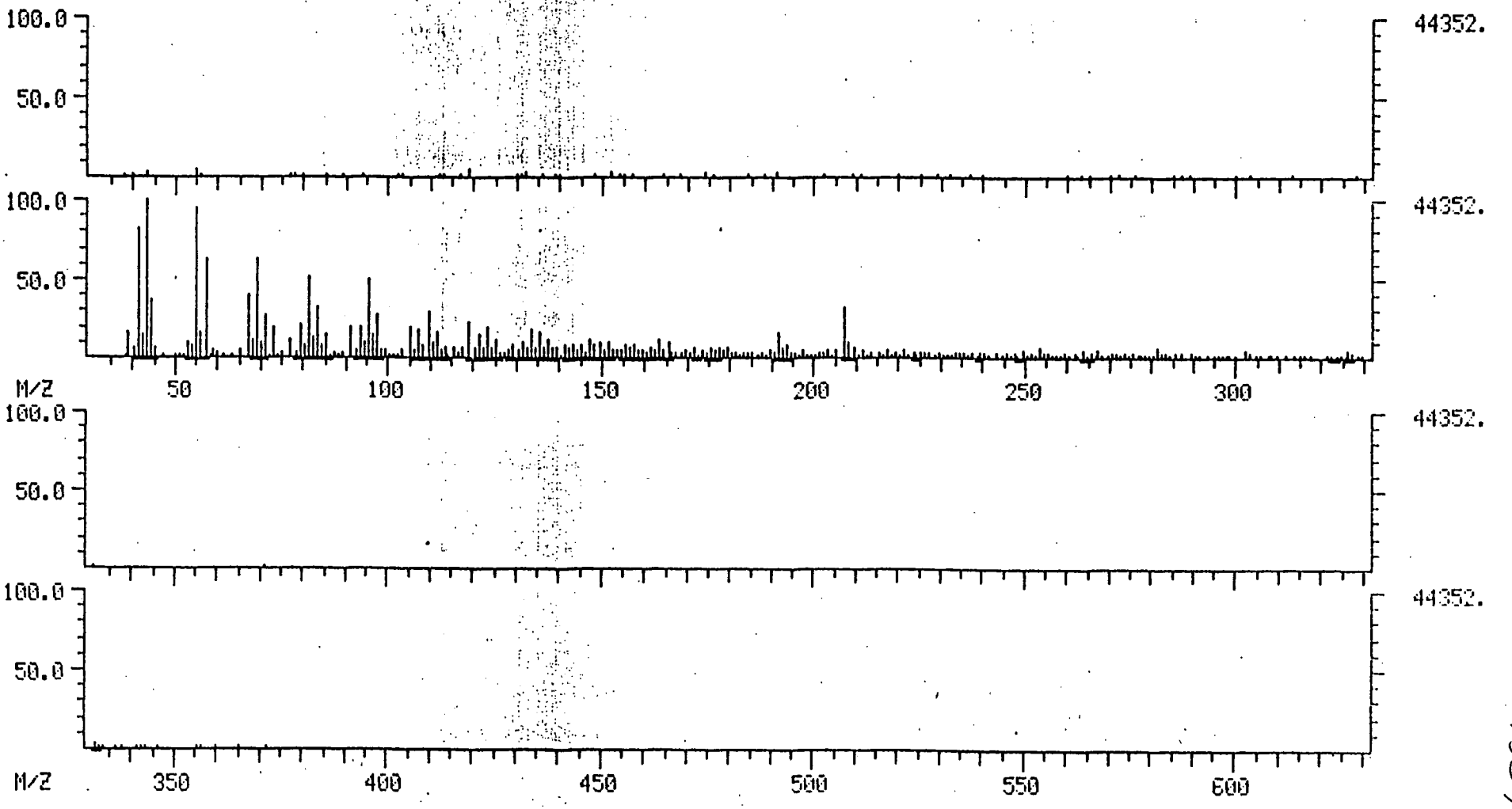
Rank	In.	Name
1	21418	PENTANE, 1-CHLORO-5-IODO-
2	17485	3-CYCLOHEXEN-1-ONE, 2,2,4-TRIMETHYL-3-(1-OXO-2-BUTENYL)-, (E)-
3	10245	3-OCTEN-5-YNE, 2,2,7,7-TETRAMETHYL-
4	19328	FURAN, 3-(4,8-DIMETHYL-3,7-NONADIENYL)-, (E)-
5	20735	2-PROPANAMINE, N-[(2,3-DIMETHYL-2-BUTENYL)OXY]-N-(1,1-DIMETHYLETHYL*

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C5.H10.CL.I	232	69	139	809	161
2	C13.H18.O2	206	69	108	785	137
3	C12.H20	164	41	84	688	117
4	C15.H22.O	218	69	147	678	207
5	C14.H29.O.N	227	145	33	672	34

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	60274-60-4
2	—	—	—	—	54382-50-2
3	—	—	—	—	55682-74-1
4	—	—	—	—	23262-34-2
5	—	—	—	—	64927-32-8

MID DUAL MASS SPECTRUM
08/25/87 21:02:00 + 38:51
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

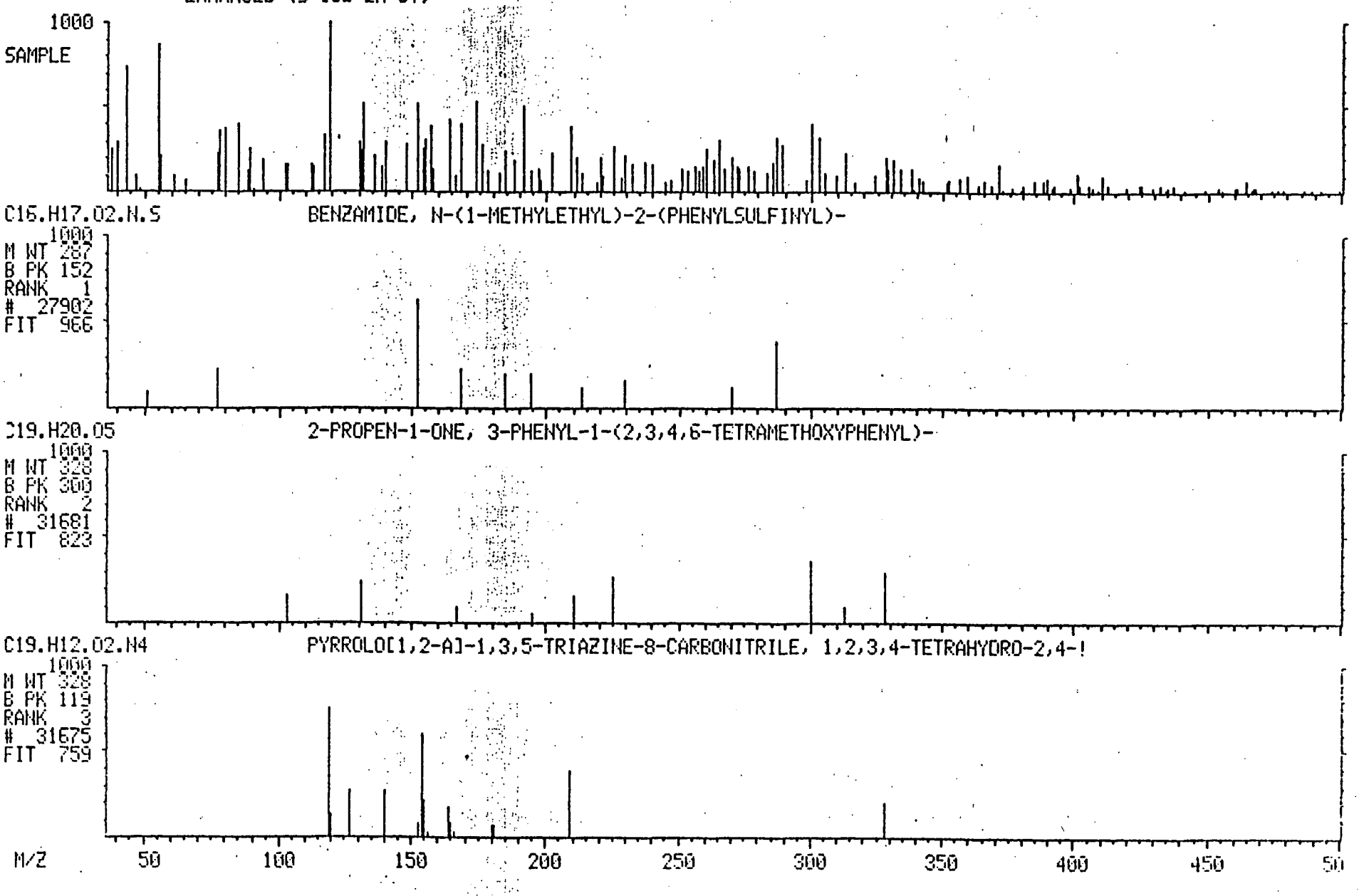
DATA: 14558N2R #2426 BASE M/Z: 119/ 43
CALI: 14558N2R #2 RIC: 57855./ 885759.



1259

MID LIBRARY SEARCH
08/25/87 21:02:00 + 38:51
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #2426 BASE M/Z: 119
CALI: 14558N2R # 2 RIC: 56575.



MID Library Search — Data: 14558N2R #2426 Base m/z: 119
08/25/87 21:02:00 + 38:51 Cali: 14558N2R # 2 RIC: 56575.
Sample: 14558-2
Conds.: 10.11GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

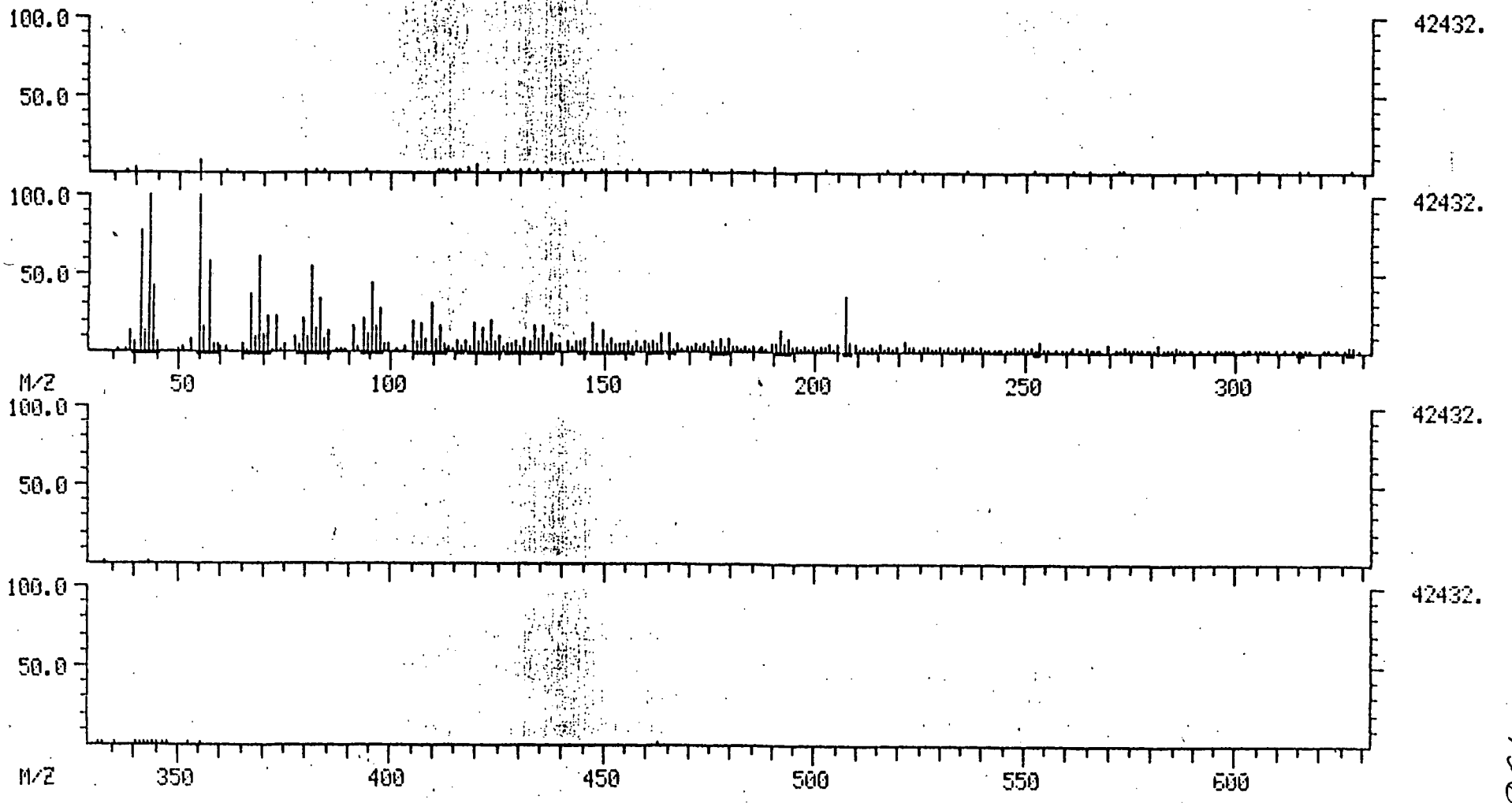
Rank	In.	Name
1	27902	BENZAMIDE, N-(1-METHYLETHYL)-2-(PHENYLSULFINYL)-
2	31681	2-PROPEN-1-ONE, 3-PHENYL-1-(2,3,4,6-TETRAMETHOXYPHENYL)-
3	31675	PYRROLO[1,2-A]-1,3,5-TRIAZINE-8-CARBONITRILE, 1,2,3,4-TETRAHYDRO-2,*
4	37474	CYTIDINE, N-ACETYL-N-METHYL-, 2',3',5'-TRIACETATE
5	27900	QUINOLINE, 1,2,3,4-TETRAHYDRO-1-[(4-METHYLPHENYL)SULFONYL]-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H17.02.N.S	287	152	97	966	98
2	C19.H20.05	328	300	66	823	78
3	C19.H12.02.N4	328	119	81	759	101
4	C18.H23.09.N3	425	139	45	684	59
5	C16.H17.02.N.S	287	132	35	662	43

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	65838-75-7
2	—	—	—	—	63878-53-5
3	—	—	—	—	54450-44-1
4	—	—	—	—	55760-29-7
5	—	—	—	—	24310-24-5

MID DUAL MASS SPECTRUM
08/25/87 21:02:00 + 40:38
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

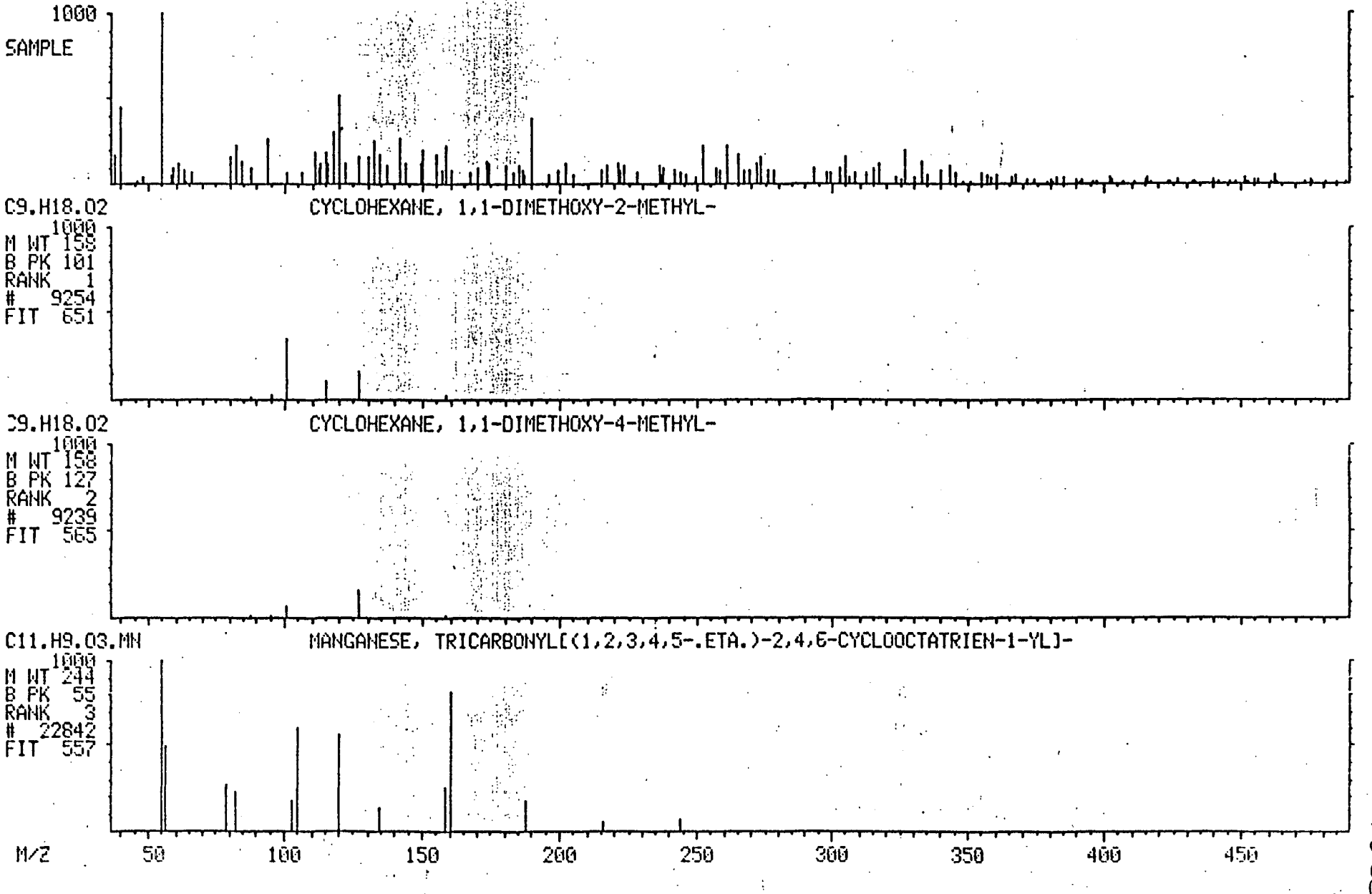
DATA: 14558N2R #2537 BASE M/Z: 55/ 43
CALI: 14558N2R #2 RIC: 50943./ 813055.



1264

MID LIBRARY SEARCH
08/25/87 21:02:00 + 40:38
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #2537 BASE M/Z: 55
CALI: 14558N2R # 2 RIC: 49919.



1263

MID Library Search Data: 14558N2R #2537 Base m/z: 55
08/25/87 21:02:00 + 40:38 Cali: 14558N2R # 2 RIC: 49919.
Sample: 14558-2
Conds.: 10.11GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	9254	CYCLOHEXANE, 1,1-DIMETHOXY-2-METHYL-
2	9239	CYCLOHEXANE, 1,1-DIMETHOXY-4-METHYL-
3	22842	MANGANESE, TRICARBONYL[(1,2,3,4,5-.ETA.)-2,4,6-CYCLOOCTATRIEN-1-YL]-
4	35189	BENZENE, 1,4-DICHLORO-2,5-BIS(TRICHLOROMETHYL)-
5	12368	BENZIMIDAZOLE, 2-ISOPROPYL-, 3-OXIDE

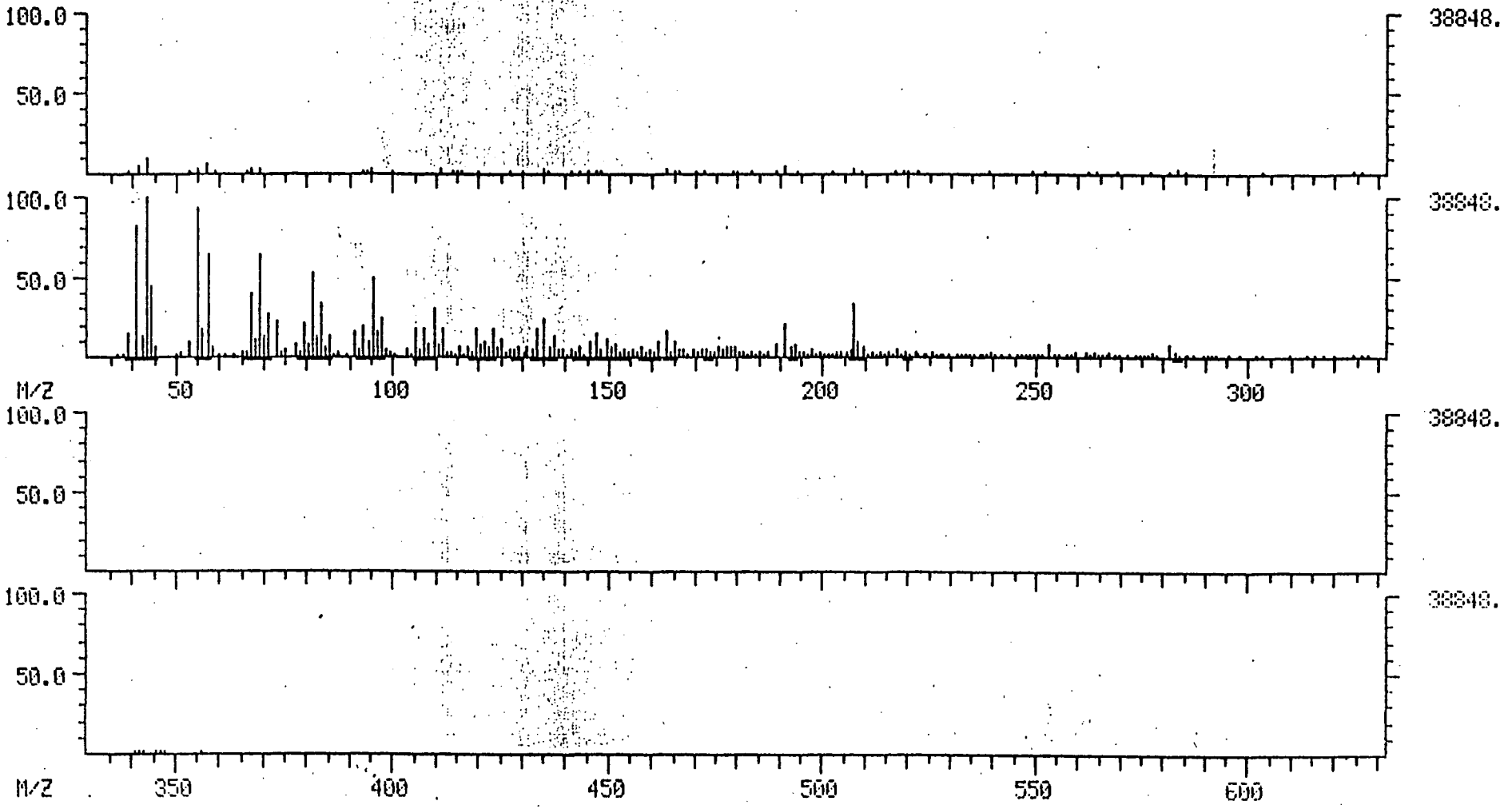
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18.O2	158	101	23	651	24
2	C9.H18.O2	158	127	16	565	16
3	C11.H9.O3.MN	244	55	49	557	73
4	C8.H2.CL8	378	343	39	553	45
5	C10.H12.O.N2	176	158	35	500	55

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	38574-09-3
2	___	___	___	___	18349-20-7
3	___	___	___	___	49626-38-2
4	___	___	___	___	2142-29-2
5	___	___	___	___	16007-54-8

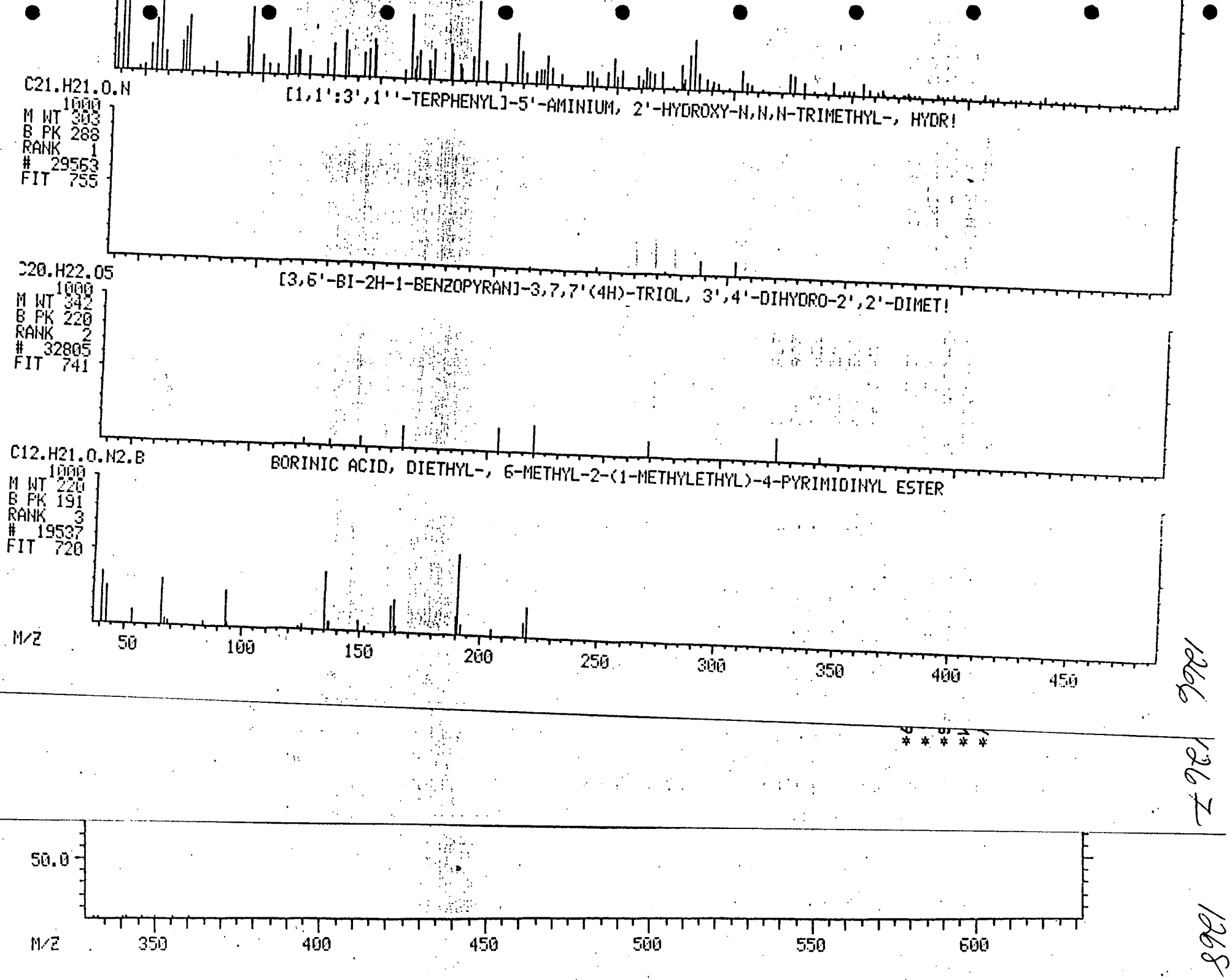
MID DUAL MASS SPECTRUM
08/25/87 21:02:00 + 45:55
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #2867
CALI: 14558N2R #2

BASE M/Z: 43/ 43
RIC: 55103./ 711679.



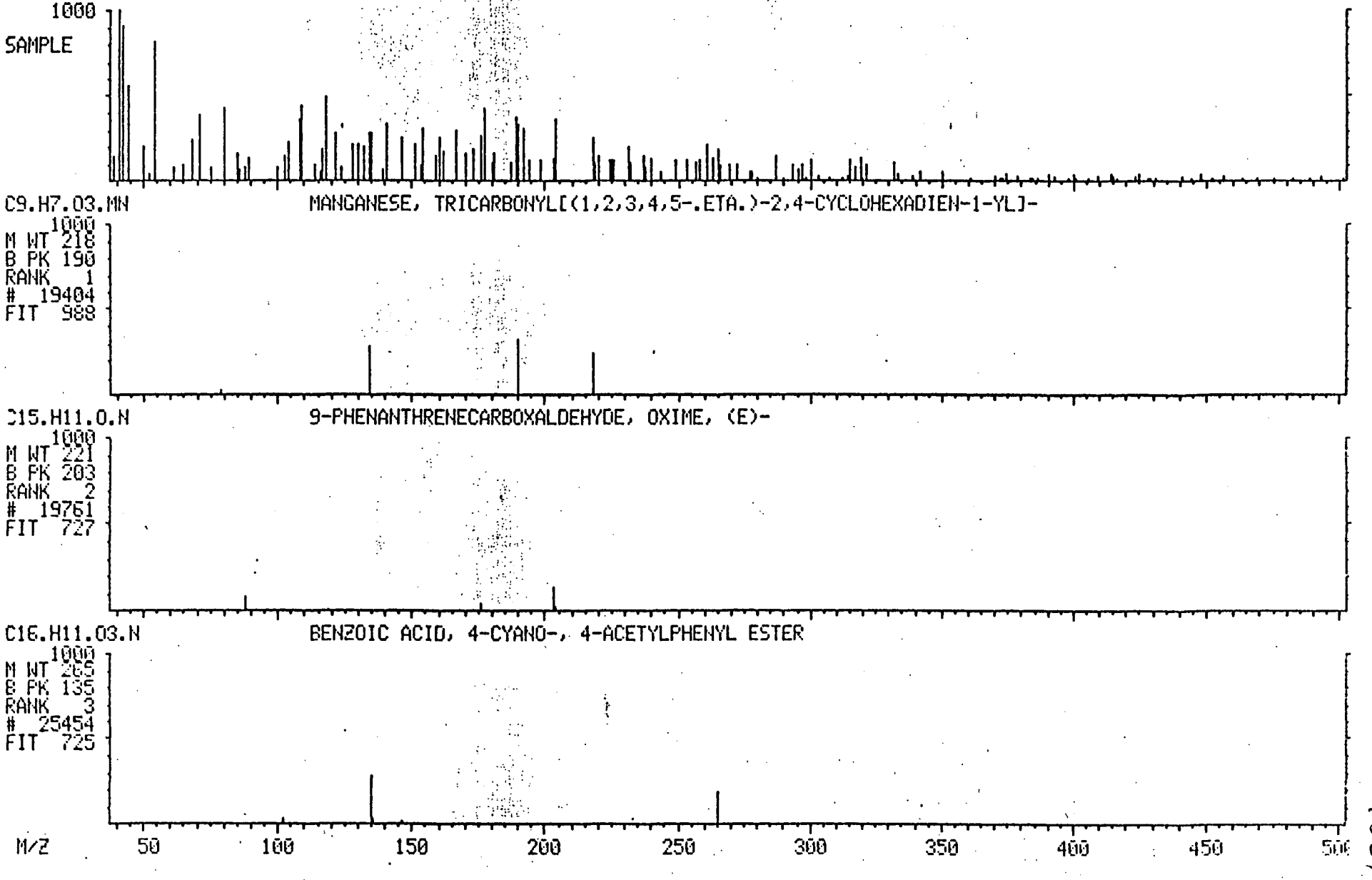
1265


C21.H21.O.N
[1,1':3',1''-TERPHENYL]-5'-AMINIUM, 2'-HYDROXY-N,N,N-TRIMETHYL-, HYDR!
1000
M WT 303
B PK 288
RANK 1
29563
FIT 755
C20.H22.O5
[3,6'-BI-2H-1-BENZOPYRAN]-3,7,7'(4H)-TRIOL, 3',4'-DIHYDRO-2',2'-DIMET!
1000
M WT 342
B PK 220
RANK 2
32805
FIT 741
C12.H21.O.N2.B
BORINIC ACID, DIETHYL-, 6-METHYL-2-(1-METHYLETHYL)-4-PYRIMIDINYL ESTER
1000
M WT 220
B PK 191
RANK 3
19537
FIT 720
M/Z
50
100
150
200
250
300
350
400
450
50.0
M/Z
350
400
450
500
550
600

MID LIBRARY SEARCH
08/25/87 21:02:00 + 47:20
SAMPLE: 14558-2
CONDS.: 10.11GMS/1.0ML 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N2R #2956
CALI: 14558N2R # 2

BASE M/Z: 41
RIC: 52159.



6981

MID Library Search Data: 14558N2R #2956 Base m/z: 41
08/25/87 21:02:00 + 47:20 Cali: 14558N2R # 2 RIC: 52159.
Sample: 14558-2
Conds.: 10.11GMS/1.0ML 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	19404	MANGANESE, TRICARBONYL[(1,2,3,4,5-.ETA.)-2,4-CYCLOHEXADIEN-1-YL]-
2	19761	9-PHENANTHRENECARBOXALDEHYDE, OXIME, (E)-
3	25454	BENZOIC ACID, 4-CYANO-, 4-ACETYLPHENYL ESTER
4	8407	2,5-PYRROLIDINEDIONE, 3-(1-AMINOETHYLIDENE)-4-METHYL-
5	19349	1,1'-BIBICYCLO[2.2.2]OCTANE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H7.O3.MN	218	190	48	988	49
2	C15.H11.O.N	221	203	36	727	36
3	C16.H11.O3.N	265	135	29	725	31
4	C7.H10.O2.N2	154	68	16	707	20
5	C16.H26	218	91	52	684	71

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	12108-14-4
2	___	___	___	___	51873-96-2
3	___	___	___	___	53327-07-4
4	___	___	___	___	58467-29-1
5	___	___	___	___	69576-82-5

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSA0911749

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-5

Sample wt/vol: 10.3 (g/mL) G Lab File ID: 14558N5R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 50 dec. Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/25/87

GPC Cleanup: (Y/N) N pH: Dilution Factor: 0.333

CAS NO.	COMPOUND	CONCENTRATION UNITS; (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2500	
111-44-4	bis(2-Chloroethyl)Ether	2000	U
95-57-8	2-Chlorophenol	2000	U
541-73-1	1,3-Dichlorobenzene	2000	U
106-46-7	1,4-Dichlorobenzene	2000	U
100-51-6	Benzyl Alcohol	2000	U
95-50-1	1,2-Dichlorobenzene	2700	
95-48-7	2-Methylphenol	2000	U
39638-32-9	bis(2-Chloroisopropyl)Ether	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
65-85-0	Benzoic Acid	9600	U
111-91-1	bis(2-Chloroethoxy)Methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	2000	U
91-20-3	Naphthalene	4200	
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
59-50-7	4-Chloro-3-Methylphenol	2000	U
91-57-6	2-Methylnaphthalene	2000	U
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	9600	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	9600	U
131-11-3	Dimethyl Phthalate	2000	U
208-96-8	Acenaphthylene	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U

1272

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B3A011749

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-5

Sample wt/vol: 10.3 (g/mL) G Lab File ID: 14558NSR

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 50 dec. Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/25/87

GPC Cleanup: (Y/N) N pH: Dilution Factor: 0.333

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	9600	U
83-32-9	Acenaphthene	8700	
51-28-5	2,4-Dinitrophenol	9600	U
100-02-7	4-Nitrophenol	9600	U
132-64-9	Dibenzofuran	4400	
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
86-73-7	Fluorene	7200	
100-10-6	4-Nitroaniline	9600	U
534-52-1	4,6-Dinitro-2-Methylphenol	9600	U
86-30-6	N-Nitrosodiphenylamine (1)	2000	U
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
87-86-5	Pentachlorophenol	9600	U
85-01-8	Phenanthrene	67000	
120-12-7	Anthracene	19000	
84-74-2	Di-n-Butylphthalate	2000	U
206-44-0	Fluoranthene	110000	
129-00-0	Pyrene	87000	
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	4000	U
56-55-3	Benzo(a)Anthracene	61000	
218-01-9	Chrysene	60000	
117-81-7	bis(2-Ethylhexyl)Phthalate	5000	B
117-84-0	Di-n-Octyl Phthalate	2000	U
205-99-2	Benzo(b)Fluoranthene	68000	
207-08-9	Benzo(k)Fluoranthene	74000	
50-32-8	Benzo(a)Pyrene	44000	
193-39-5	Indeno(1,2,3-cd)Pyrene	44000	
53-70-3	Dibenz(a,h)Anthracene	2000	U
191-24-2	Benzo(g,h,i)Perylene	2000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSA081749

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-5

Sample wt/vol: 10.3 (g/mL) G Lab File ID: 14558N5R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 50 dec. Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/25/87

GPC Cleanup: (Y/N) N pH: Dilution Factor: 0.333

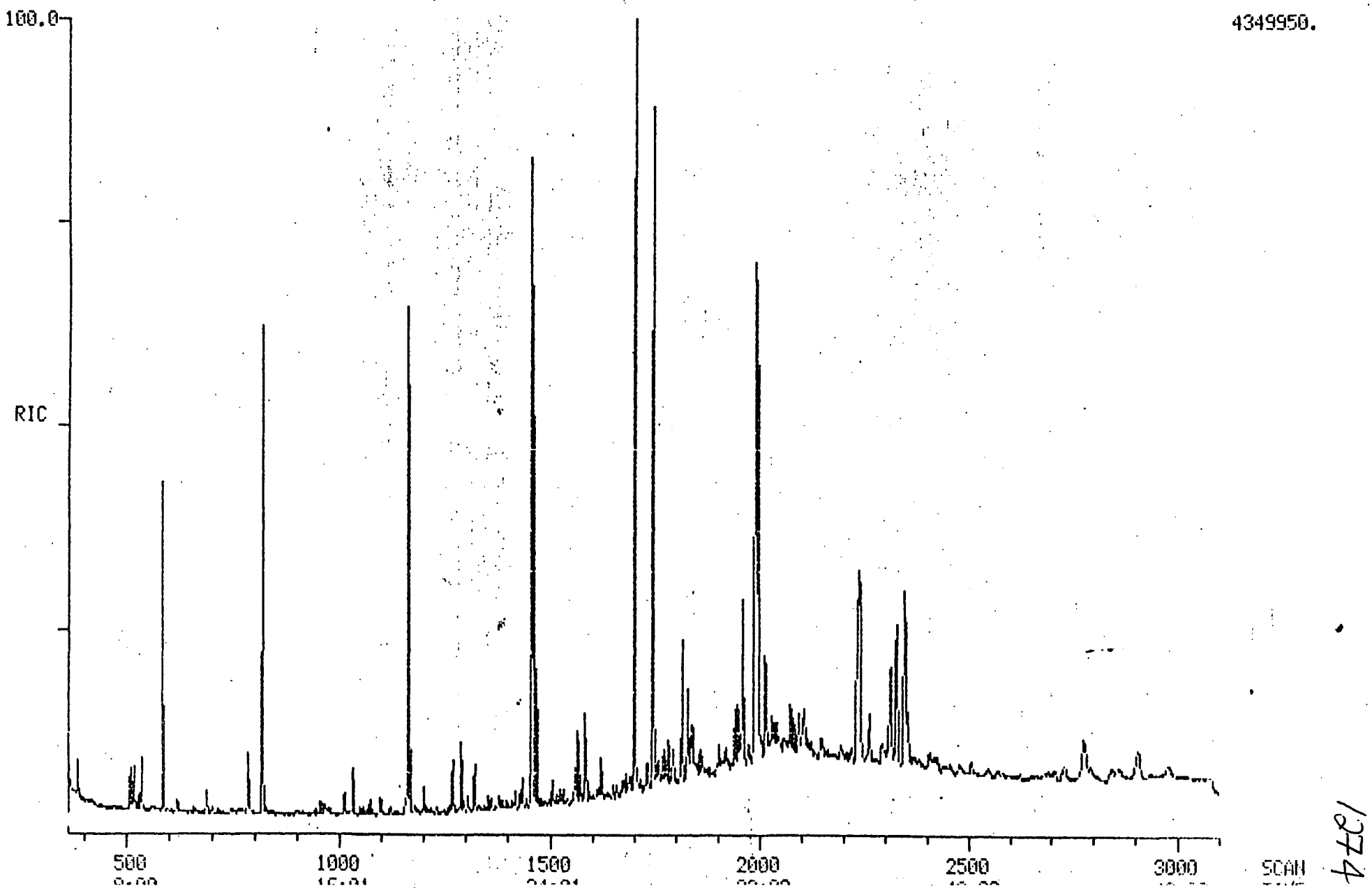
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

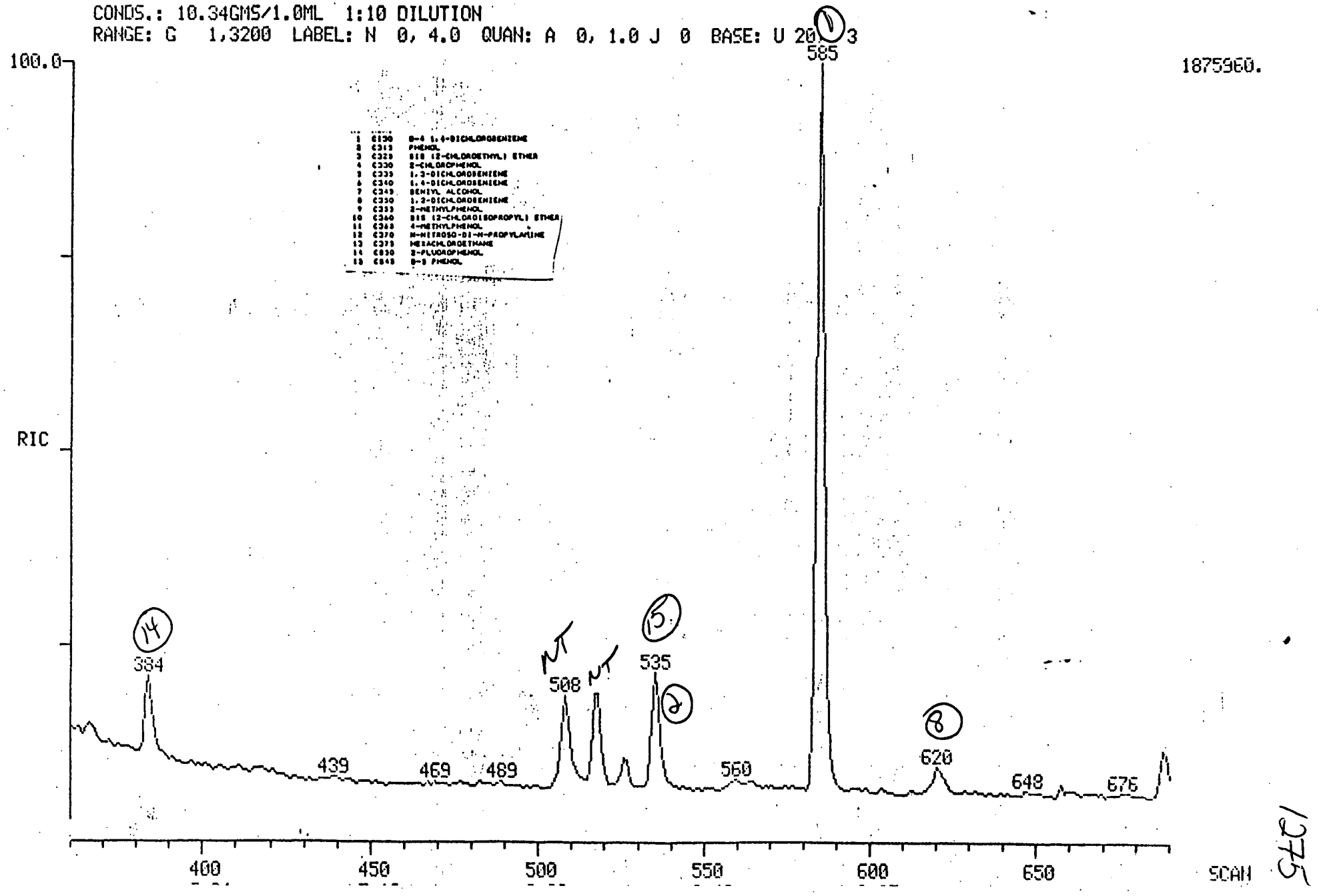
MIDRIC
08/25/87 23:23:00
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558N5R #1
CALI: 14558N5R #2

SCANS 360 TO 3100



1274


MIDRIC
08/25/87 23:23:00
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20
DATA: 14558N5R #1
CALI: 14558N5R #2
SCANS 360 TO 690
100.0
1875960.
RIC
585
384
439
469
489
508
535
560
620
648
676
NT
NT
400
450
500
550
600
650
SCAN

Quantitation Report File: 14558N5R

Data: 14558N5R.TI
08/25/87 23:23:00
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558N5R

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

No	Name		
1	CI30	D-4 1,4-DICHLOROBENZENE	(INT. STD.)
2	C315	PHENOL	*
3	C325	BIS (2-CHLOROETHYL) ETHER	
4	C330	2-CHLOROPHENOL	
5	C335	1,3-DICHLOROBENZENE	
6	C340	1,4-DICHLOROBENZENE	*
7	C345	BENZYL ALCOHOL	
8	C350	1,2-DICHLOROBENZENE	
9	C355	2-METHYLPHENOL	
10	C360	BIS (2-CHLOROISOPROPYL) ETHER	
11	C365	4-METHYLPHENOL	
12	C370	N-NITROSO-DI-N-PROPYLAMINE	**
13	C375	HEXACHLOROETHANE	
14	CS50	2-FLUOROPHENOL	(SURROGATE)
15	CS45	D-5 PHENOL	(SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	152	585	9:22	1	1.000	A BV	540896.	40.000 NG	67.90	
2	94	537	8:36	1	0.918	A BV	32704.	1.293 NG	2.20	YES DOV
3	93	545	8:44	1	0.932	A VB	~~5236.~~	~~0.229 NG~~	0.39	NO DOV
4	128	547	8:46	1	0.935	A*VB	~~1952.~~	~~0.102 NG~~	0.17	NO DOV
5	146	567	9:05	1	0.969	A*BB	~~704.~~	~~0.034 NG~~	0.06	NO DOV
6	146	588	9:25	1	1.005	A*BB	~~6080.~~	~~0.289 NG~~	0.49	NO DOV
7	108	603	9:39	1	1.031	A BB	~~832.~~	~~0.067 NG~~	0.11	NO DOV
8	146	620	9:56	1	1.060	A BB	28448.	1.376 NG	2.34	YES DOV
9	108	641	10:16	1	1.096	A*BB	~~2688.~~	~~0.157 NG~~	0.27	NO DOV
10	45	649	10:24	1	1.109	A*BV	~~2391.~~	~~0.047 NG~~	0.08	NO DOV
11	108	668	10:42	1	1.142	A BB	~~6624.~~	~~0.361 NG~~	0.61	NO DOV
12	70	667	10:41	1	1.140	A BB	~~1408.~~	~~0.055 NG~~	0.09	NO DOV
13	117	671	10:45	1	1.147	A BB	~~928.~~	~~0.088 NG~~	0.15	NO DOV
14	112	384	6:09	1	0.656	A BB	107116.	6.703 NG	11.38	YES DOV
15	99	535	8:34	1	0.915	A BV	172400.	8.109 NG	13.77	YES DOV

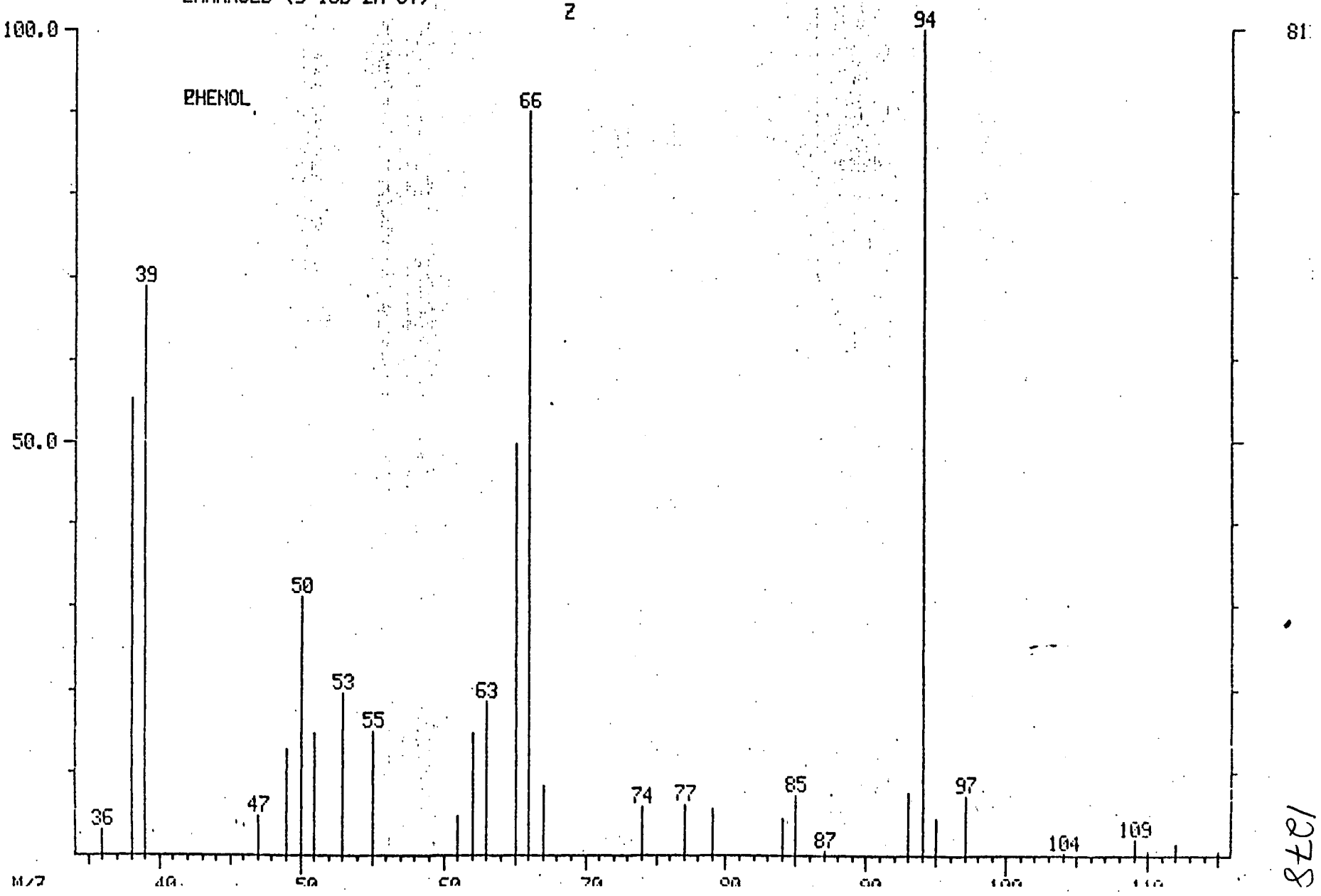
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:25	0.99	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:40	0.99	0.920	1.00	1.29	50.00	0.048	1.870	0.03
3	8:50	0.99	0.939	0.99	0.23	50.00	0.008	1.691	0.00
4	8:56	0.98	0.949	0.99	0.10	50.00	0.003	1.410	0.00
5	9:18	0.98	0.988	0.98	0.03	50.00	0.001	1.540	0.00
6	9:28	0.99	1.005	1.00	0.29	50.00	0.009	1.555	0.01
7	9:53	0.98	1.049	0.98	0.07	50.00	0.001	0.918	0.00
8	9:59	1.00	1.060	1.00	1.38	50.00	0.042	1.529	0.03
9	10:18	1.00	1.094	1.00	0.16	50.00	0.004	1.265	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
10	10:21	1.00	1.099	1.01	0.05	50.00	0.004	3.763	0.00
11	10:43	1.00	1.138	1.00	0.36	50.00	0.010	1.356	0.01
12	10:45	0.99	1.141	1.00	0.05	50.00	0.002	1.903	0.00
13	10:51	0.99	1.151	1.00	0.09	50.00	0.001	0.780	0.00
14	6:14	0.99	0.662	0.99	6.70	50.00	0.158	1.182	0.13
15	8:37	0.99	0.915	1.00	8.11	50.00	0.255	1.572	0.16

MID MASS SPECTRUM
08/25/87 23:23:00 + 8:36
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 94 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #537
CALI: 14558N5R #2

BASE M/Z: 94
RIC: 54464.

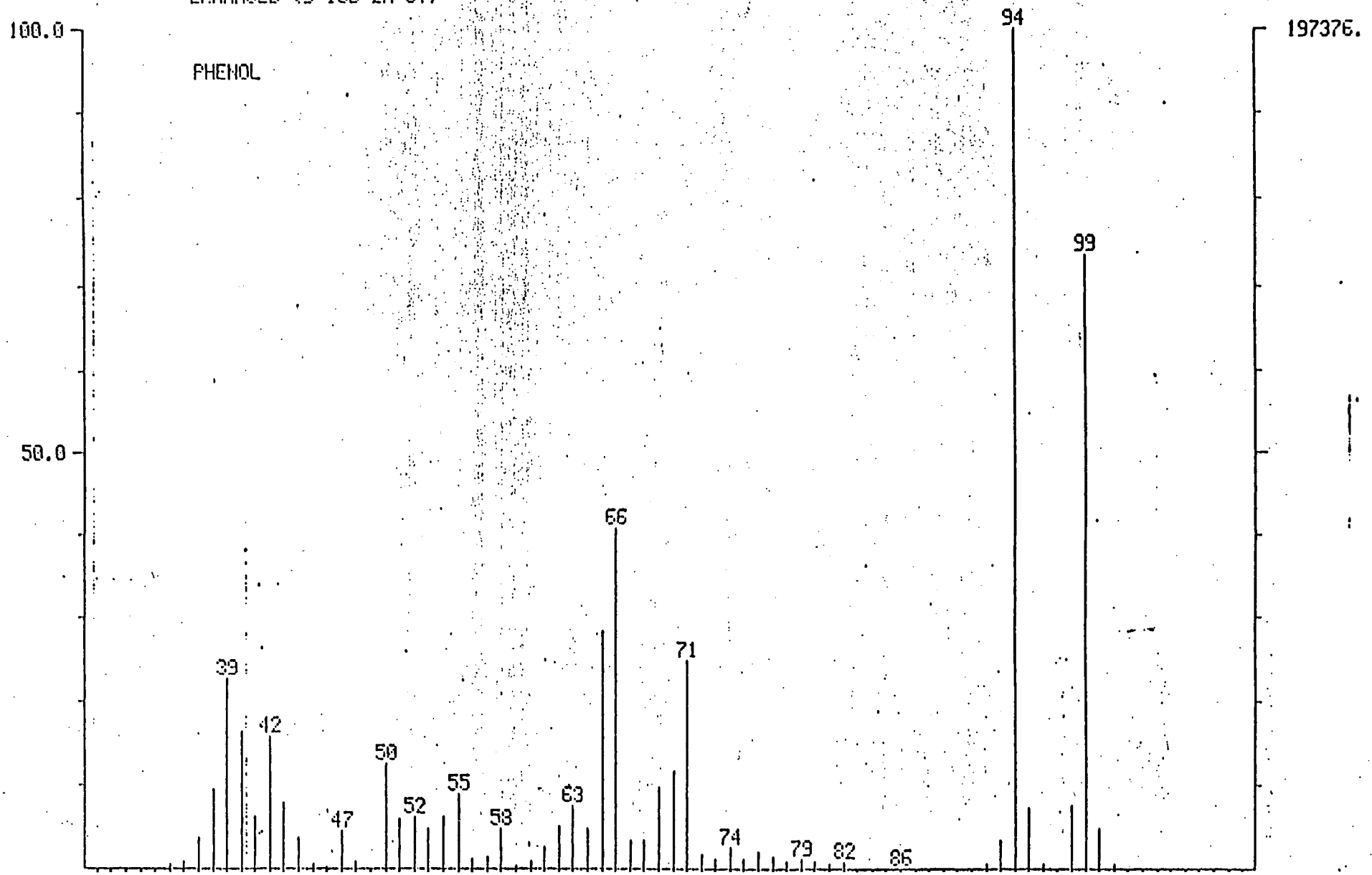


1278

MID MASS SPECTRUM
01/02/86 11:37:00 + 11:05
SAMPLE: HSL STANDARD-C 1/2/86
CONDS.: 80 NG INJECTED
GC TEMP: 116 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC80102 #691
CALI: HSC80102 #2

BASE M/Z: 94
RIC: 980932.

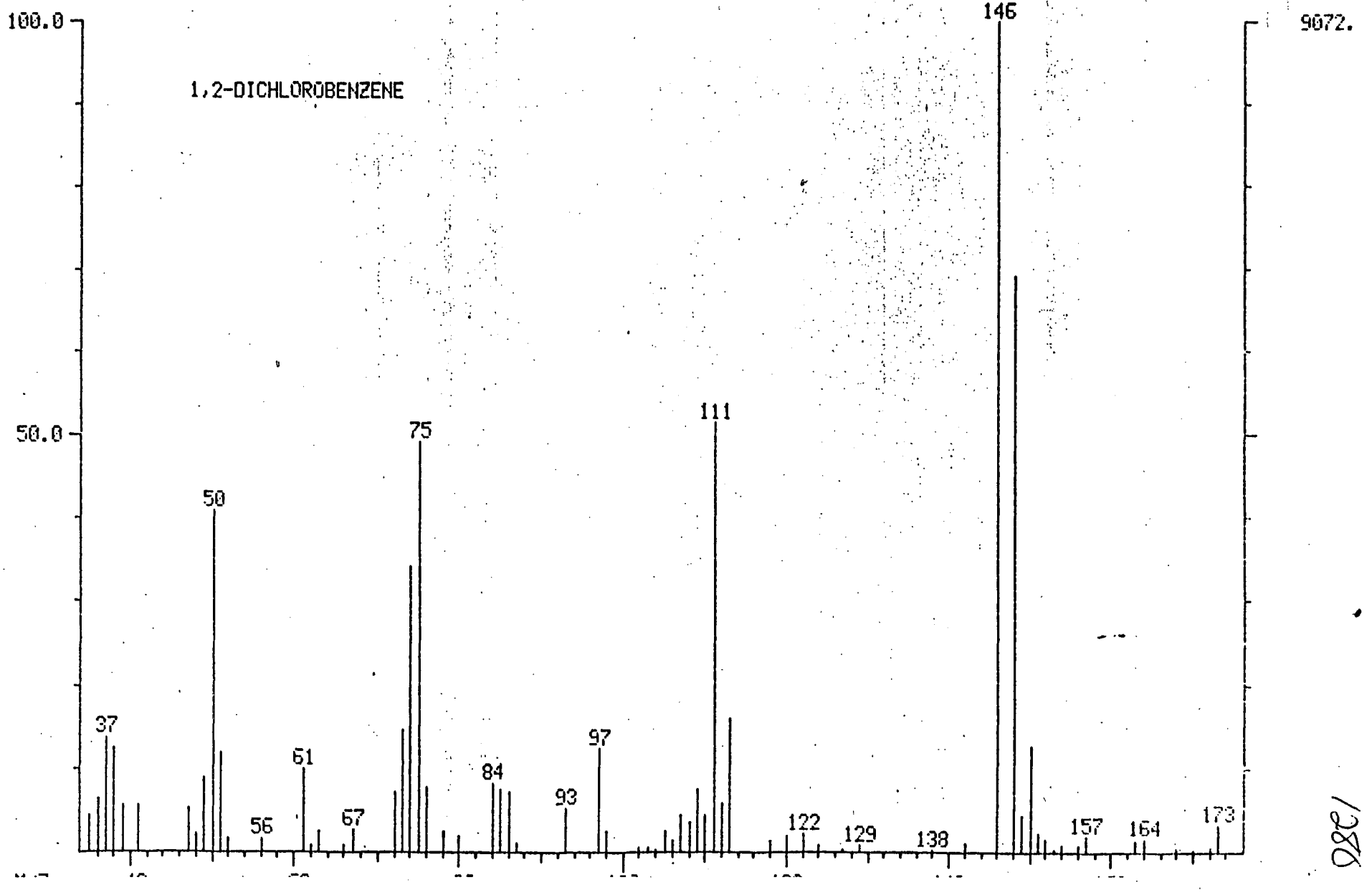


1279

MID MASS SPECTRUM
08/25/87 23:23:00 + 9:56
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 104 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #620
CALI: 14558N5R #2

BASE M/Z: 146
RIC: 59200.

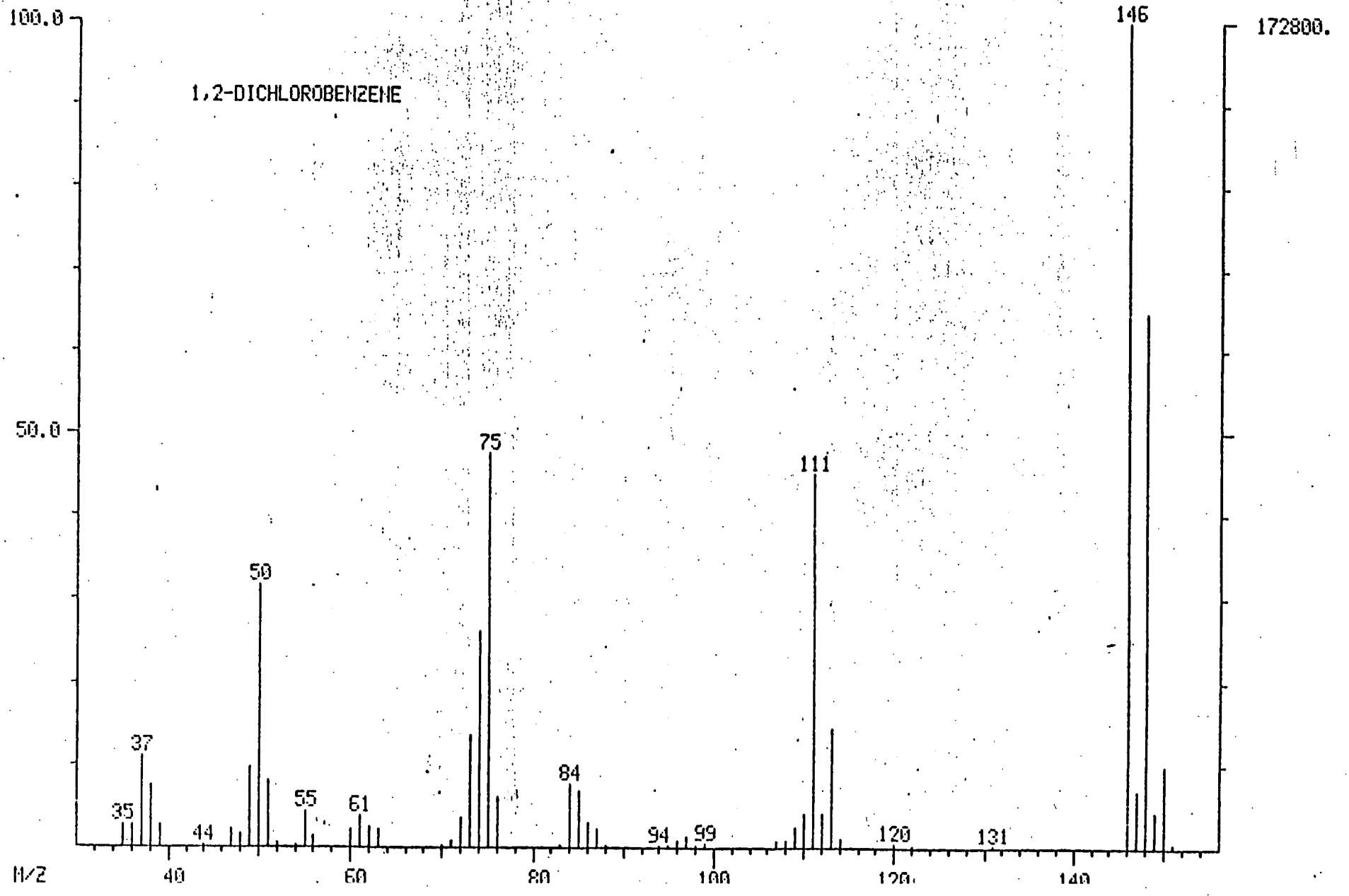


281

MID MASS SPECTRUM
03/17/87 17:10:00 + 12:37
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 126 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #786
CALI: HSC50317 #2

BASE M/Z: 146
RIC: 830464.

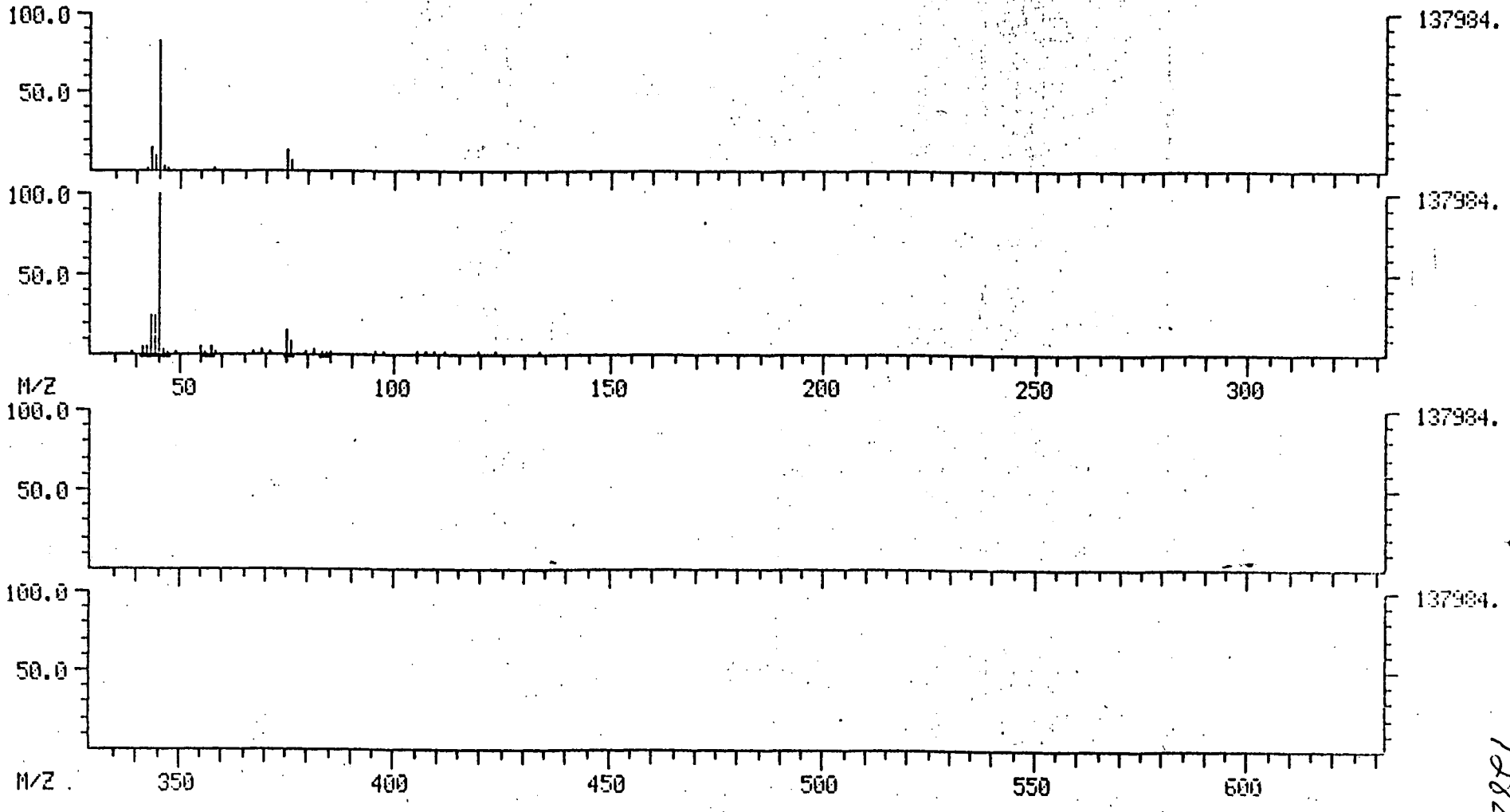


1881

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 8:08
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 90 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #508
CALI: 14558N5R #2

BASE M/Z: 45/ 45
RIC: 197887./ 346111.

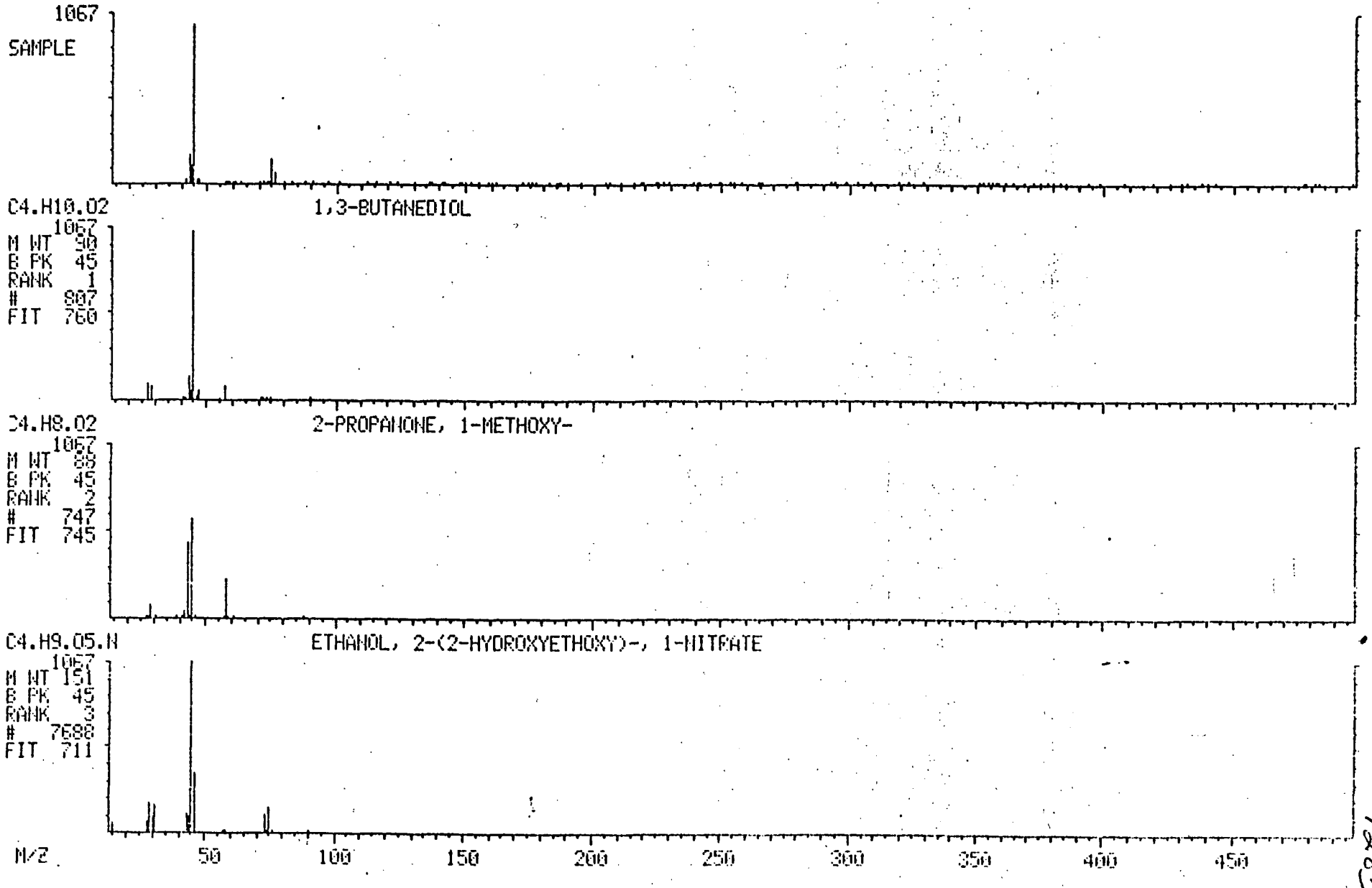


2821

MID LIBRARY SEARCH
08/25/87 23:23:00 + 8:08
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R # 508
CALI: 14558N5R # 2

BASE M/Z: 45
RIC: 196351.



1285

MID Library Search Data: 14558N5R # 509 Base m/z: 45
08/25/87 23:23:00 + 8:08 Cali: 14558N5R # 2 RIC: 196351.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	807	1,3-BUTANEDIOL
2	747	2-PROPANONE, 1-METHOXY-
3	7688	ETHANOL, 2-(2-HYDROXYETHOXY)-, 1-NITRATE
4	808	2-PROPANOL, 1-METHOXY-
5	41	METHANETHIAL, HOMOPOLYMER

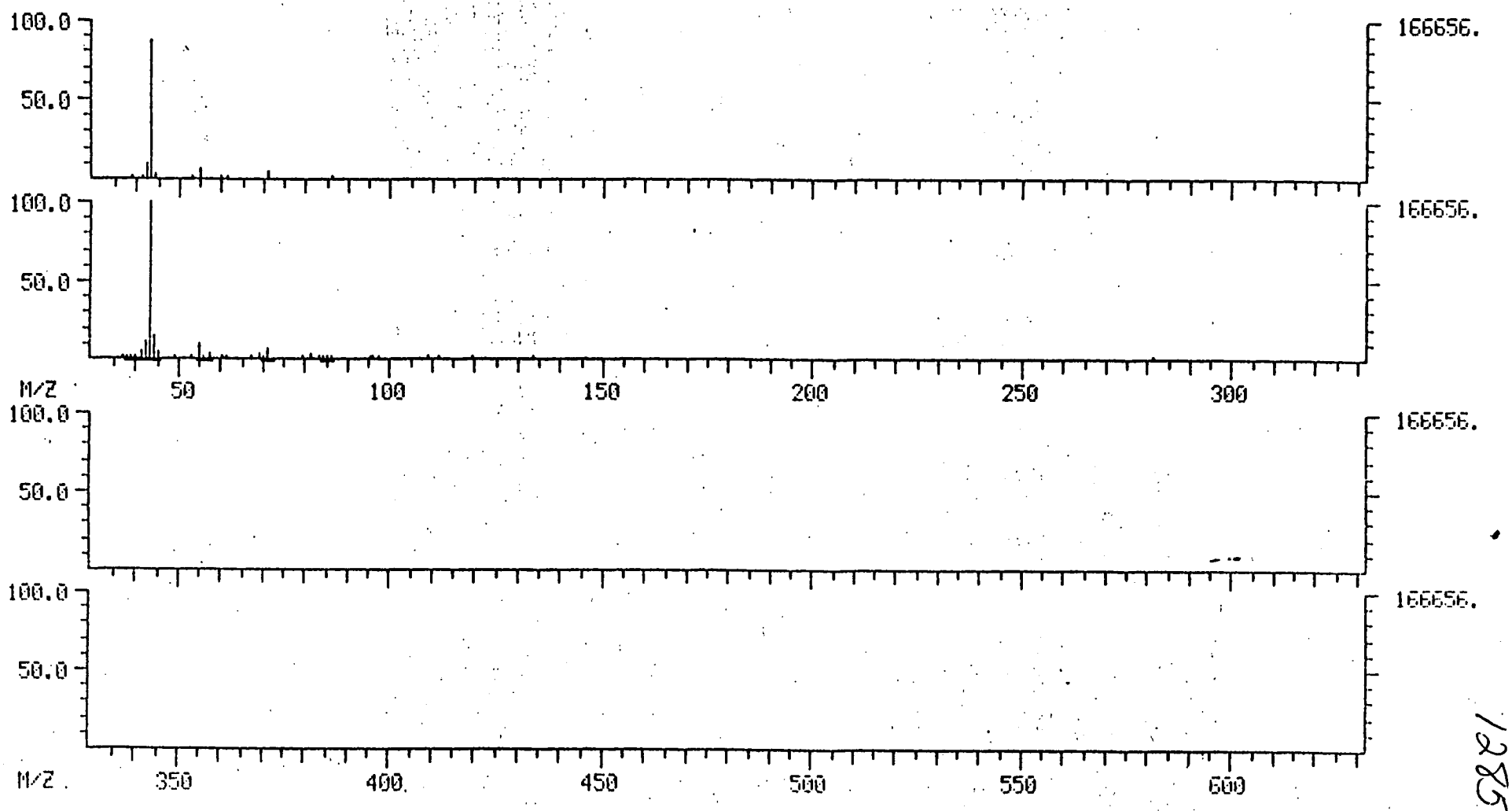
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C4. H10. O2	90	45	574	760	641
2	C4. H8. O2	88	45	478	745	507
3	C4. H9. O5. N	151	45	571	711	670
4	C4. H10. O2	90	45	519	689	610
5	C. H2. SX	46	45	377	685	411

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	___	___	___	___	107-88-0
2	___	___	___	___	5878-19-3
3	___	___	___	___	20633-16-3
4	___	___	___	___	107-98-2
5	___	___	___	___	30699-99-1

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 8:18
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 91 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #518
CALI: 14558N5R #2

BASE M/Z: 43/ 43
RIC: 210943./ 351743.

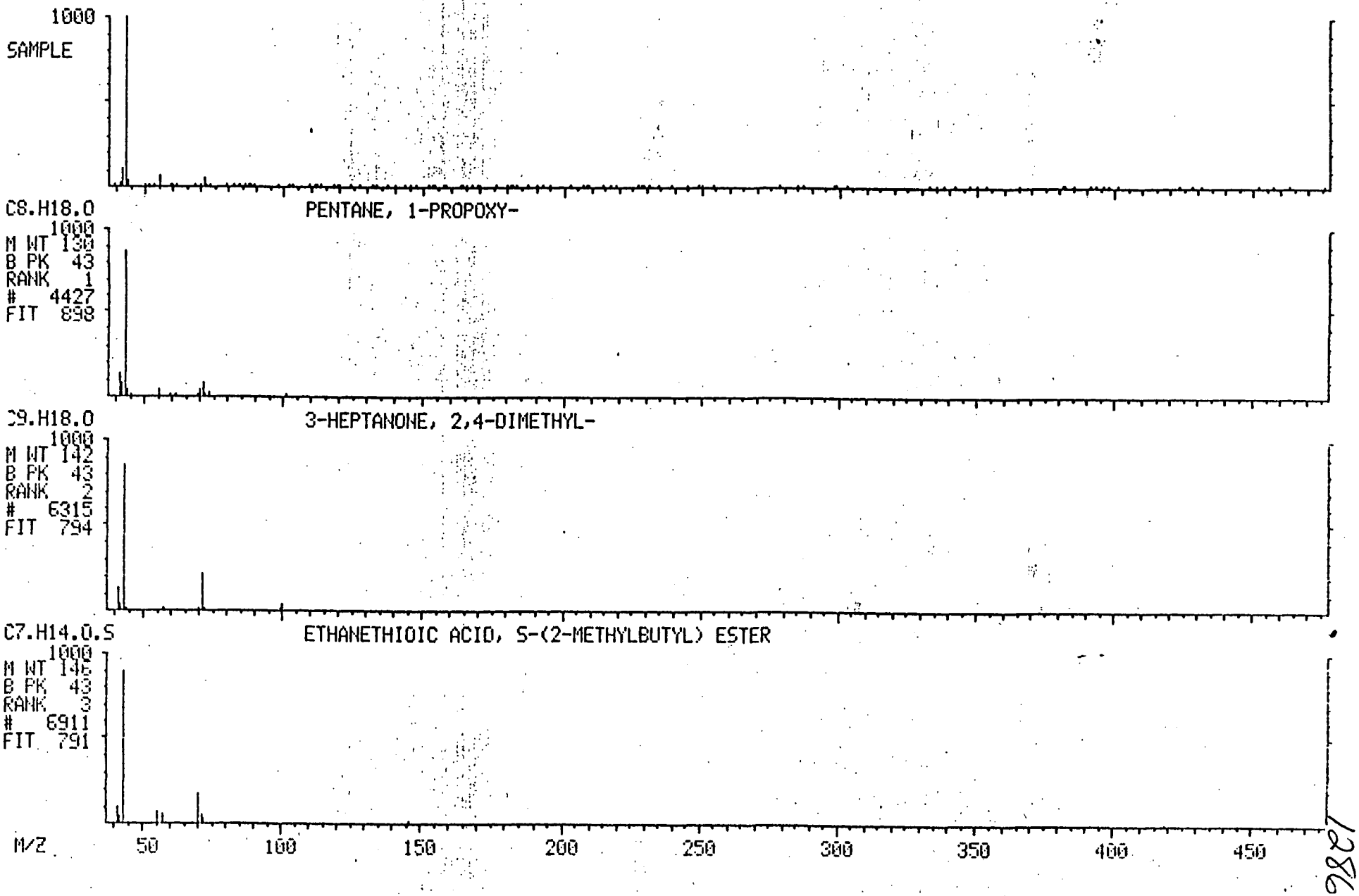


1285

MID LIBRARY SEARCH
08/25/87 23:23:00 + 8:18
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R # 518
CALI: 14558N5R # 2

BASE M/Z: 43
RIC: 207871.



MID Library Search Data: 14558N5R # 518 Base m/z: 43
08/25/87 23:23:00 + 8:18 Cali: 14558N5R # 2 RIC: 207871.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

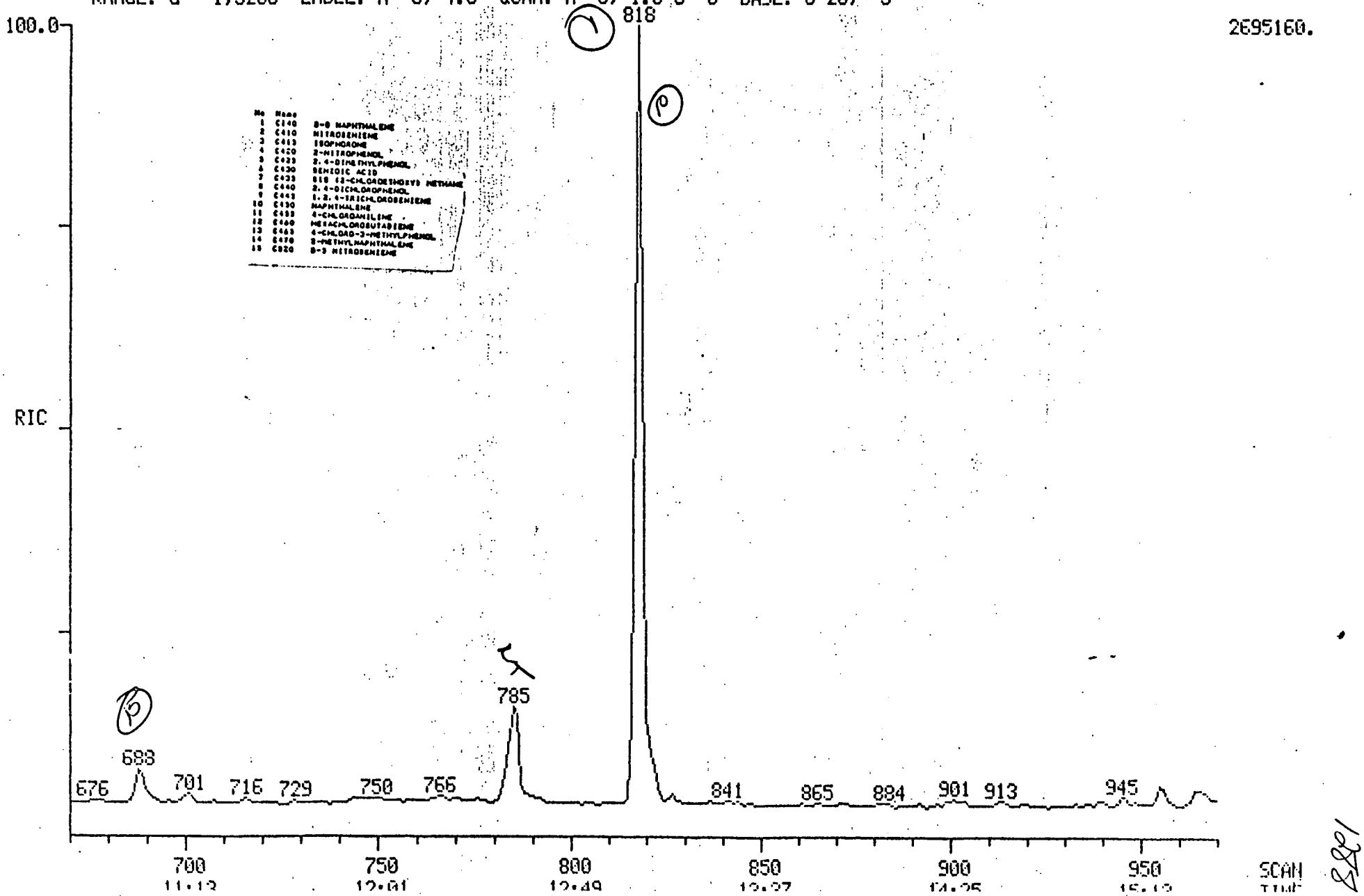
Rank	In.	Name
1	4427	PENTANE, 1-PROPOXY-
2	6315	3-HEPTANONE, 2,4-DIMETHYL-
3	6911	ETHANETHIOIC ACID, S-(2-METHYLBUTYL) ESTER
4	6221	3,4-HEXANEDIONE, 2,5-DIMETHYL-
5	4359	2-BUTANOL, 3-METHYL-, ACETATE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H18.O	130	43	710	898	730
2	C9.H18.O	142	43	577	794	636
3	C7.H14.O.S	146	43	593	791	626
4	C8.H14.O2	142	43	577	786	668
5	C7.H14.O2	130	43	621	782	663

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	18641-82-2
2	———	———	———	———	18641-71-9
3	———	———	———	———	69078-80-4
4	———	———	———	———	4388-87-8
5	———	———	———	———	5343-96-4

MIDRIC
08/25/87 23:23:00
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558N5R #1 SCANS 670 TO 970
CALI: 14558N5R #2



Quantitation Report File: 2

Data: 14558N5R.TI
08/25/87 23:23:00
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558N5R

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

No	Name		
1	CI40	D-8 NAPHTHALENE	(INT. STD.)
2	C410	NITROBENZENE	
3	C415	ISOPHORONE	
4	C420	2-NITROPHENOL	*
5	C425	2,4-DIMETHYLPHENOL	
6	C430	BENZOIC ACID	
7	C435	BIS (2-CHLOROETHOXY) METHANE	
8	C440	2,4-DICHLOROPHENOL	*
9	C445	1,2,4-TRICHLOROBENZENE	
10	C450	NAPHTHALENE	
11	C455	4-CHLOROANILINE	
12	C460	HEXACHLOROBUTADIENE	*
13	C465	4-CHLORO-3-METHYLPHENOL	*
14	C470	2-METHYLNAPHTHALENE	
15	CS20	D-5 NITROBENZENE	(SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	136	818	13:06	1	1.000	A BB	2156430.	40.000 NG	86.33	
2	77	689	11:02	1	0.842	A BB	~~1751.~~	~~0.062 NG~~	~~0.13~~	NO
3	82	731	11:42	1	0.894	A*BB	~~6629.~~	~~0.112 NG~~	~~0.24~~	NO
4	139	750	12:01	1	0.917	A*BB	~~222.~~	~~0.091 NG~~	~~0.20~~	NO
5	122	763	12:13	1	0.933	A BB	~~592.~~	~~0.038 NG~~	~~0.08~~	NO
6	122	783	12:32	1	0.957	A VB	~~2752.~~	~~0.246 NG~~	~~0.53~~	NO
7	93	779	12:29	1	0.952	A*BB	~~7215.~~	~~0.235 NG~~	~~0.51~~	NO
8	162	795	12:44	1	0.972	A BB	~~323.~~	~~0.017 NG~~	~~0.04~~	NO
9	180	816	13:04	1	0.998	A BB	~~172.~~	~~0.011 NG~~	~~0.02~~	NO
10	128	821	13:09	1	1.004	A BB	119008.	2.164 NG	4.67	YES
11	127	843	13:30	1	1.031	A*BB	~~1569.~~	~~0.066 NG~~	~~0.14~~	NO
12	NOT FOUND									
13	107	942	15:05	1	1.152	A VB	~~4145.~~	~~0.169 NG~~	~~0.36~~	NO
14	142	964	15:26	1	1.178	A VB	~~756.~~	~~0.020 NG~~	~~0.04~~	NO
15	82	688	11:01	1	0.841	M XX	91328.	3.105 NG	6.70	YES

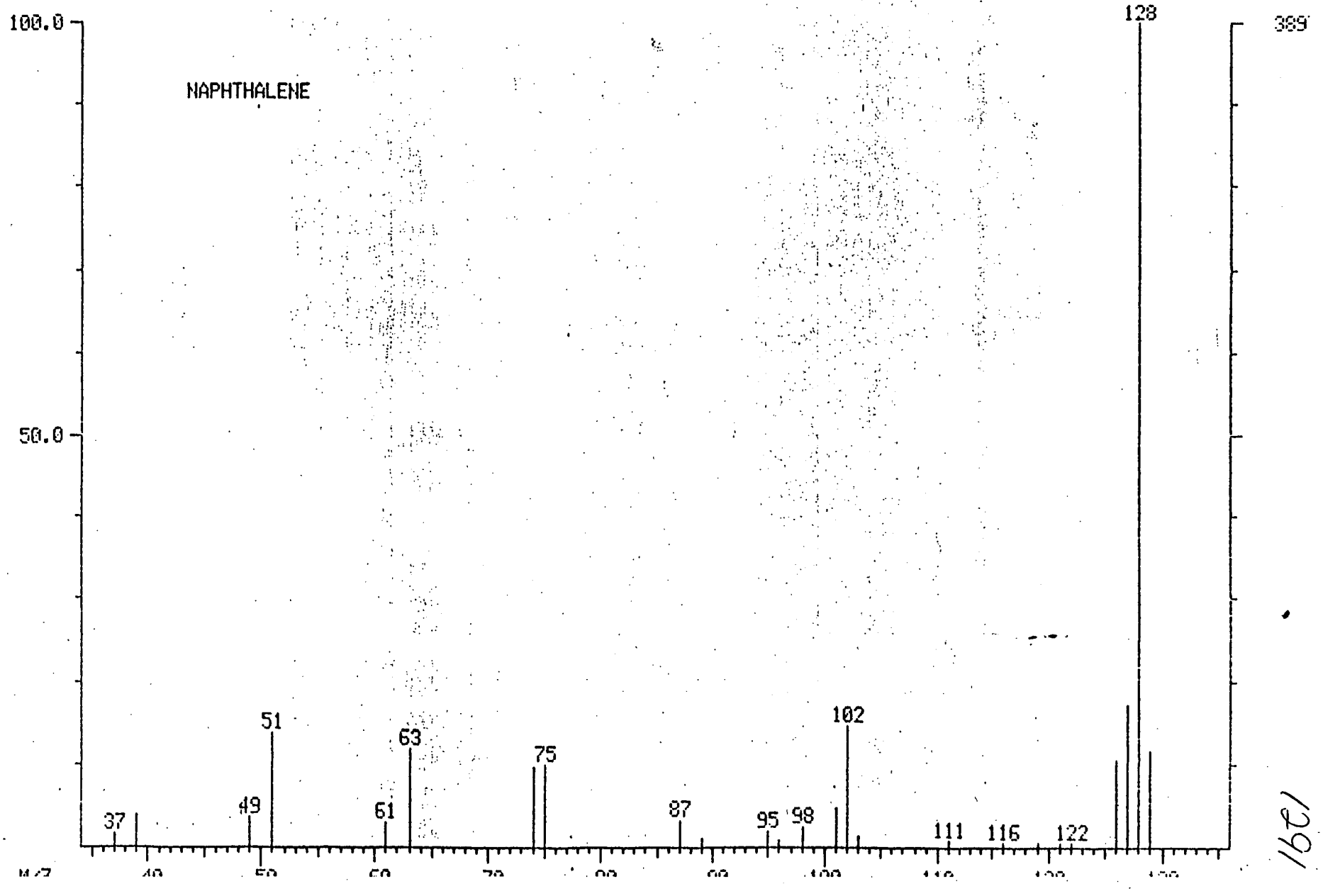
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	11:08	0.99	0.848	0.99	0.06	50.00	0.001	0.585	0.00
3	11:48	0.99	0.899	0.99	0.11	50.00	0.002	1.098	0.00
4	12:05	0.99	0.920	1.00	0.09	50.00	0.000	0.170	0.00
5	12:16	1.00	0.934	1.00	0.04	50.00	0.000	0.292	0.00
6	12:36	0.99	0.960	1.00	0.25	50.00	0.001	0.208	0.00
7	12:33	0.99	0.956	1.00	0.23	50.00	0.003	0.573	0.00
8	12:46	1.00	0.972	1.00	0.02	50.00	0.000	0.320	0.00
9	13:01	1.00	0.991	1.01	0.01	50.00	0.000	0.333	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
10	13:11	1.00	1.004	1.00	2.16	50.00	0.044	1.020	0.04
11	13:27	1.00	1.024	1.01	0.07	50.00	0.001	0.441	0.00
12	13:47		1.050						
13	15:01	1.00	1.144	1.01	0.17	50.00	0.002	0.455	0.00
14	15:20	1.01	1.167	1.01	0.02	50.00	0.000	0.684	0.00
15	11:04	1.00	0.843	1.00	3.11	50.00	0.034	0.546	0.06

MID MASS SPECTRUM
08/25/87 23:23:00 + 13:09
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 130 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #821
CALI: 14558N5R #2

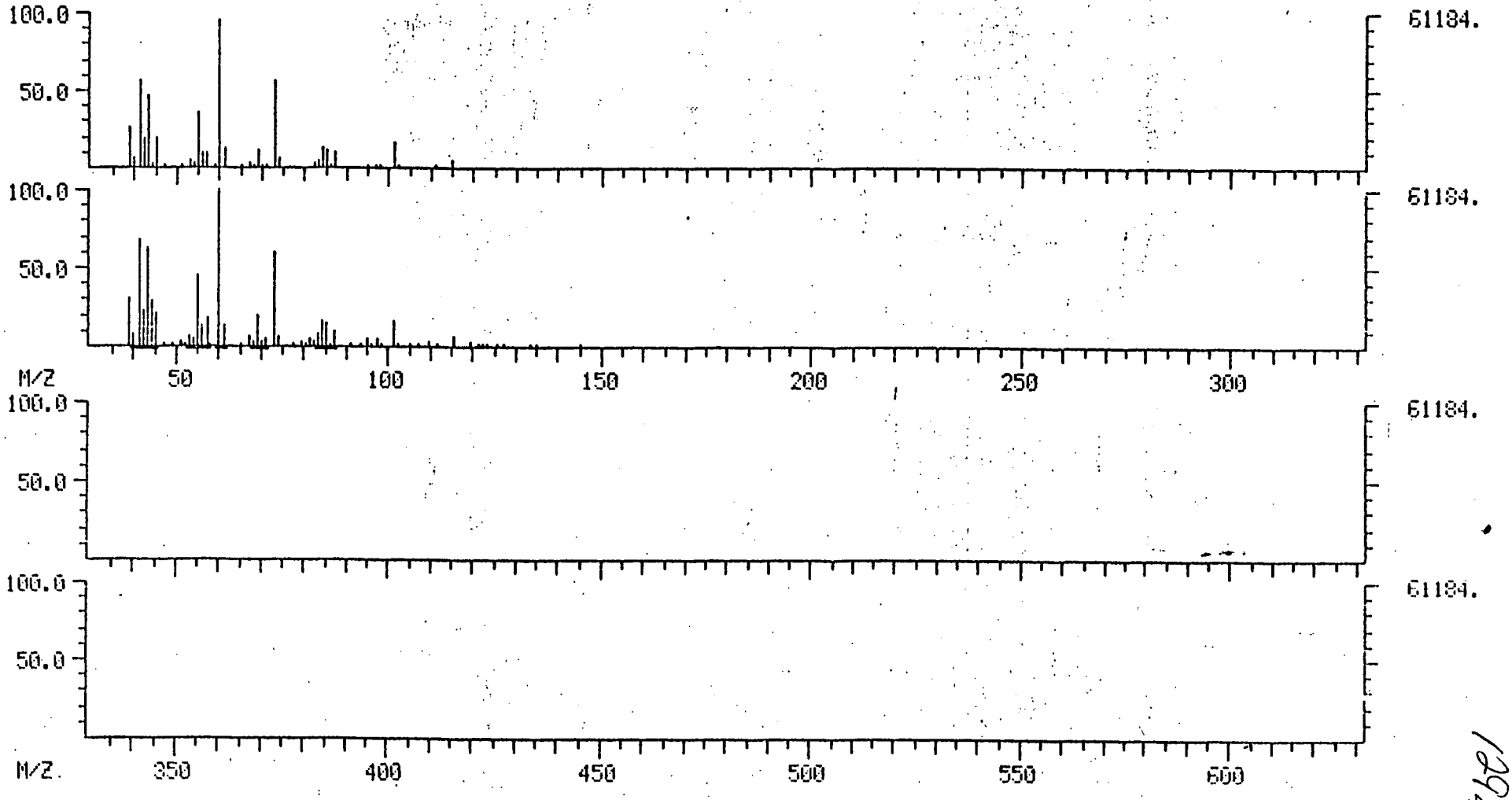
BASE M/Z: 128
RIC: 93568.



MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 12:34
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 126 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #785
CALI: 14558N5R #2

BASE M/Z: 60/ 60
RIC: 313855./ 431615.

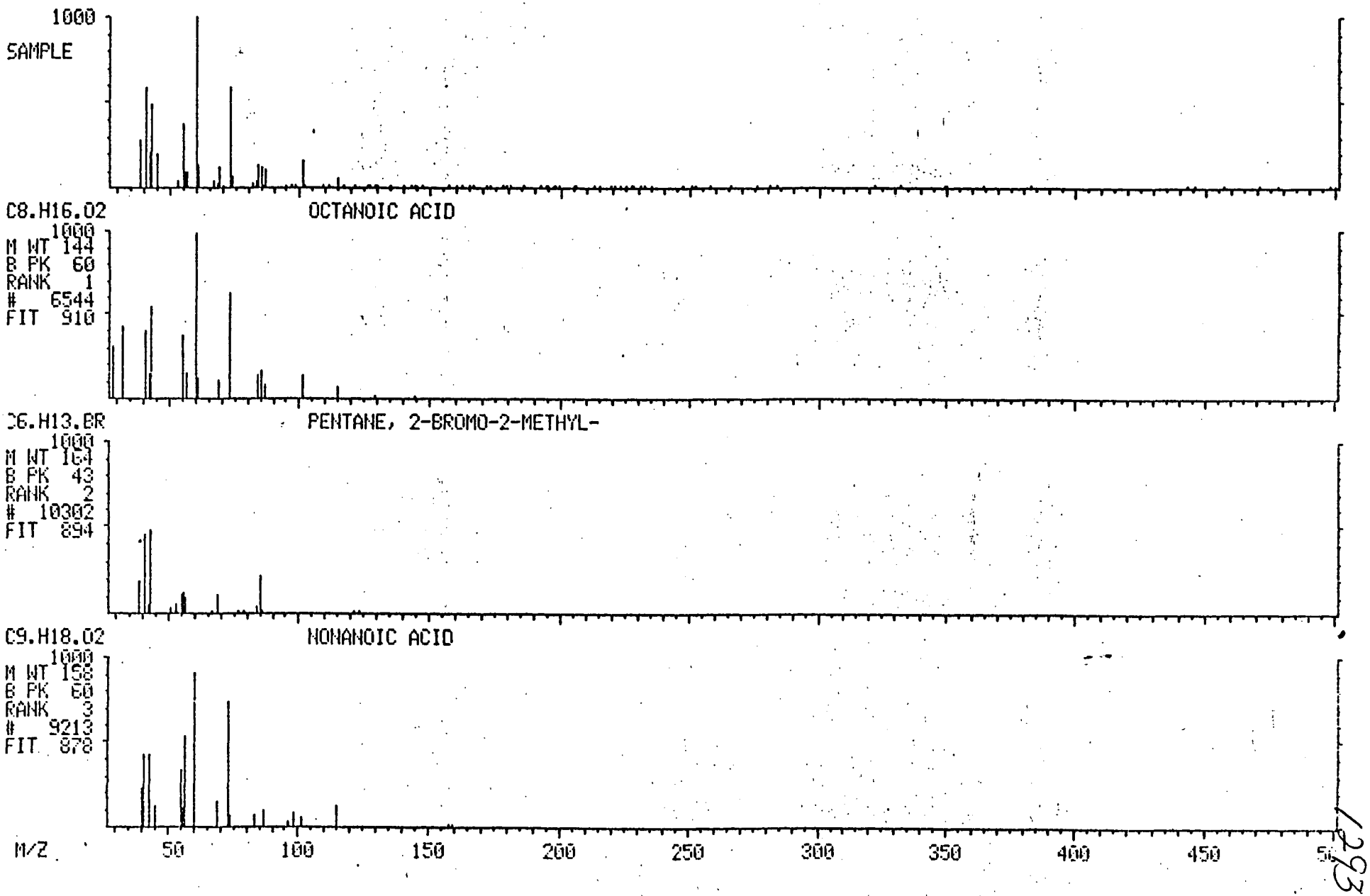


1292

MID LIBRARY SEARCH
08/25/87 23:23:00 + 12:34
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R # 785
CALI: 14558N5R # 2

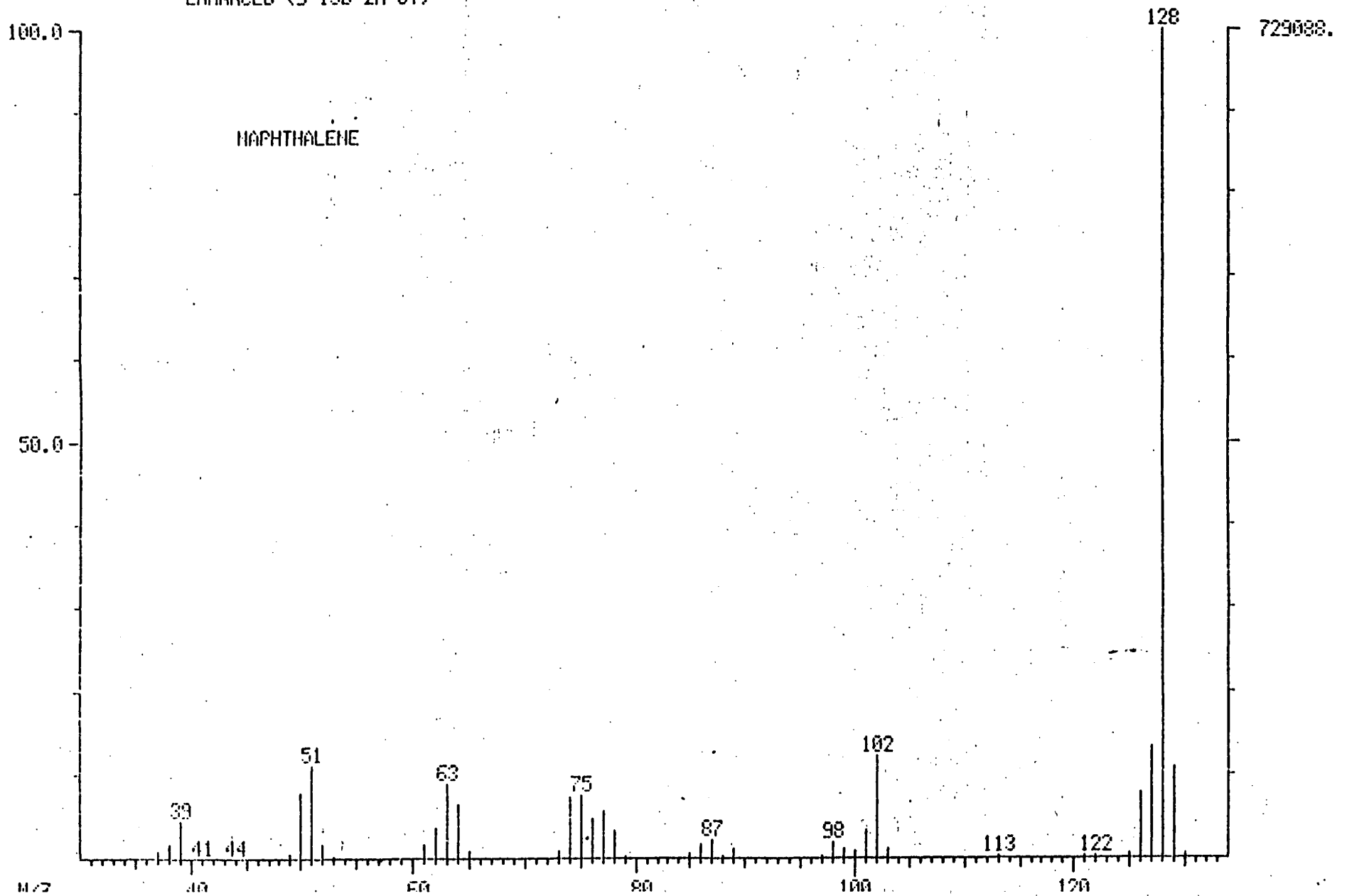
BASE M/Z: 60
RIC: 299519.



MID MASS SPECTRUM
03/17/87 17:10:00 + 16:02
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 153 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #999
CALI: HSC50317 #2

BASE M/Z: 128
RIC: 1744830.



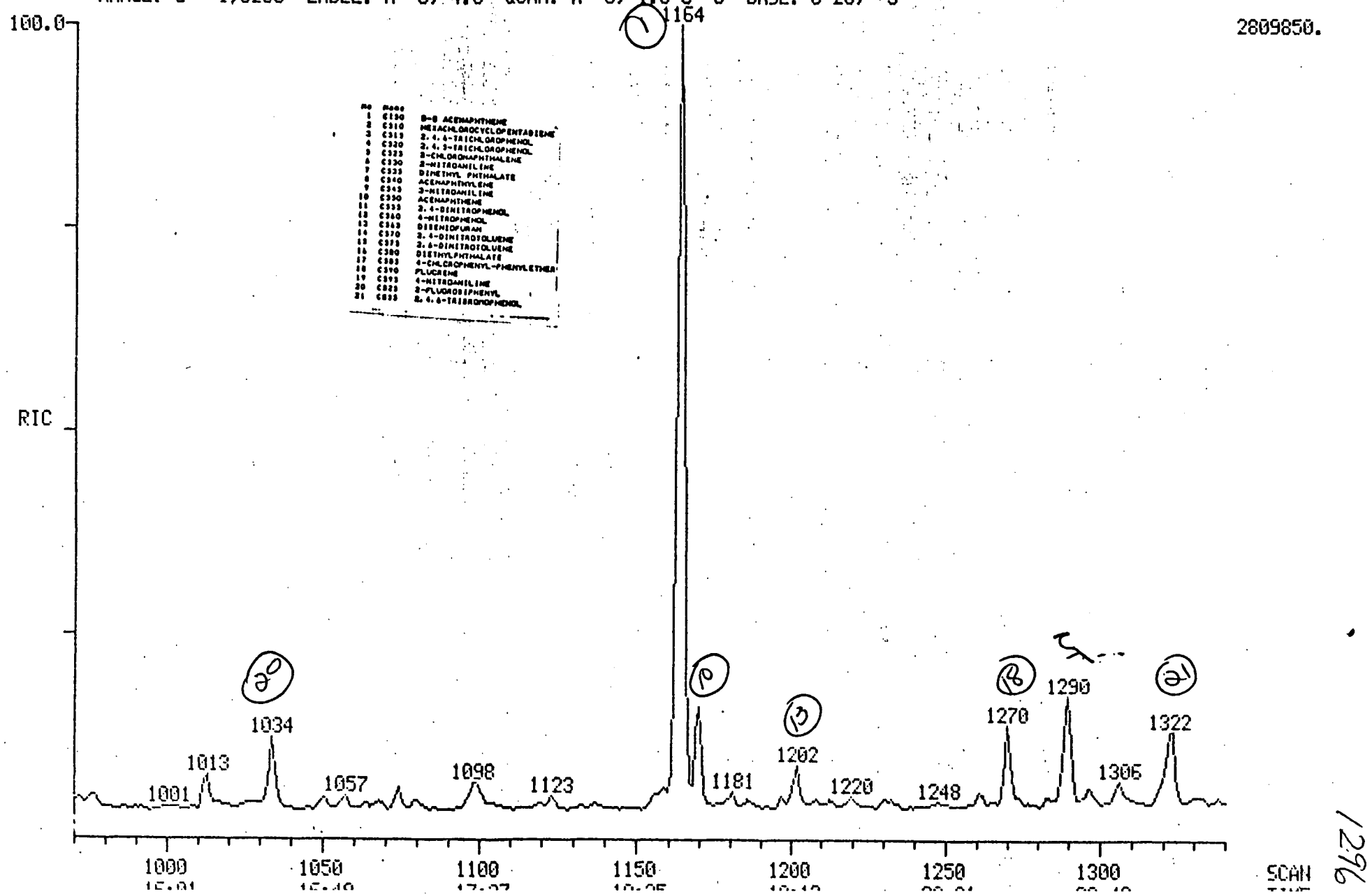
1294

MID Library Search Data: 14558N5R # 785 Base m/z: 60
08/25/87 23:23:00 + 12:34 Cali: 14558N5R # 2 RIC: 299519.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	6544	OCTANOIC ACID
2	10302	PENTANE, 2-BROMO-2-METHYL-
3	9213	NONANOIC ACID
4	6556	2H-PYRAN, TETRAHYDRO-2-(1-METHYLETHOXY)-
5	2677	HEXANOIC ACID (DOT)

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C8. H16. 02	144	60	718	910	783
2	C6. H13. BR	164	43	367	894	378
3	C9. H18. 02	158	60	650	878	687
4	C8. H16. 02	144	41	379	871	399
5	C6. H12. 02	116	60	608	855	693

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	___	___	___	___	124-07-2
2	___	___	___	___	4283-80-1
3	___	___	___	___	112-05-0
4	___	___	___	___	1927-70-4
5	___	___	___	___	142-62-1


MIDRIC
08/25/87 23:23:00
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558N5R #1
CALI: 14558N5R #2
SCANS 970 TO 1340
100.0
2809850.
RIC
1164
1034
1013
1001
1057
1098
1123
1181
1202
1220
1248
1270
1290
1306
1322
1000
1050
1100
1150
1200
1250
1300
SCAN

Quantitation Report File: 14558N5R

Data: 14558N5R.TI
08/25/87 23:23:00
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558N5R

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

No	Name		
1	CI50	D-8 ACENAPHTHENE	(INT. STD.)
2	C510	HEXACHLOROCYCLOPENTADIENE	**
3	C515	2,4,6-TRICHLOROPHENOL	*
4	C520	2,4,5-TRICHLOROPHENOL	
5	C525	2-CHLORONAPHTHALENE	
6	C530	2-NITROANILINE	
7	C535	DIMETHYL PHTHALATE	
8	C540	ACENAPHTHYLENE	
9	C545	3-NITROANILINE	
10	C550	ACENAPHTHENE	*
11	C555	2,4-DINITROPHENOL	**
12	C560	4-NITROPHENOL	**
13	C565	DIBENZOFURAN	
14	C570	2,4-DINITROTOLUENE	
15	C543	2,6-DINITROTOLUENE	
16	C580	DIETHYLPHTHALATE	
17	C585	4-CHLOROPHENYL-PHENYLETHER	
18	C590	FLUORENE	
19	C595	4-NITROANILINE	
20	CS25	2-FLUOROBIPHENYL	(SURROGATE)
21	CS55	2,4,6-TRIBROMOPHENOL	(SURROGATE)

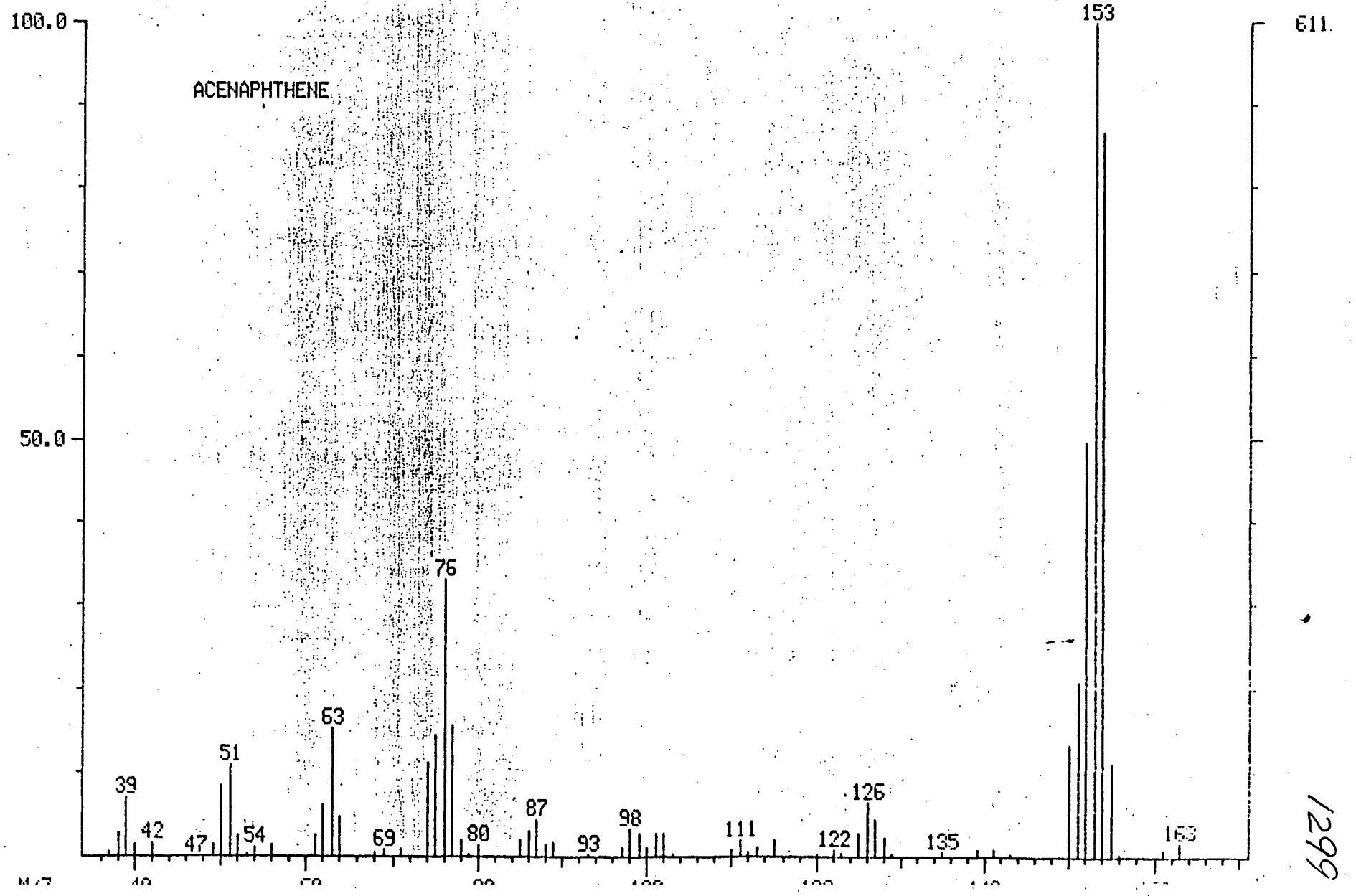
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	164	1164	18:38	1	1.000	A BB	1300900.	40.000	NG	56.90	
2	NOT FOUND										
3	196	1026	16:26	1	0.881	A BB	~~1429.~~	~~0.091~~	NG	0.13	NO QQ
4	NOT FOUND										
5	162	1057	16:56	1	0.908	A BB	~~224.~~	~~0.006~~	NG	0.01	NO QQ
6	65	1080	17:18	1	0.928	A BV	~~1703.~~	~~0.081~~	NG	0.12	NO QQ
7	163	1124	18:00	1	0.966	A*BB	~~1672.~~	~~0.034~~	NG	0.05	NO QQ
8	152	1133	18:09	1	0.973	A VB	~~6864.~~	~~0.152~~	NG	0.22	NO QQ
9	138	1167	18:41	1	1.003	A*BB	~~1152.~~	~~0.105~~	NG	0.15	NO QQ
10	153	1170	18:44	1	1.005	A BB	176832.	4.443	NG	6.32	YES QQ
11	184	1182	18:56	1	1.015	A BB	~~224.~~	~~0.139~~	NG	0.20	NO QQ
12	139	1202	19:15	1	1.033	A BV	~~47724.~~	~~8.732~~	NG	~~12.42~~	NO QQ
13	168	1202	19:15	1	1.033	A BB	127968.	2.235	NG	3.18	YES QQ
14	NOT FOUND										
15	165	1130	18:06	1	0.971	A BB	~~1171.~~	~~0.116~~	NG	0.16	NO QQ
16	149	1266	20:16	1	1.088	A*BB	~~6455.~~	~~0.117~~	NG	0.17	NO QQ
17	204	1277	20:27	1	1.097	A BB	~~224.~~	~~0.016~~	NG	0.01	NO QQ
18	166	1270	20:20	1	1.091	A BV	159344.	3.617	NG	5.14	YES QQ
19	138	1283	20:33	1	1.102	A*BB	~~992.~~	~~0.113~~	NG	0.16	NO QQ
20	172	1034	16:34	1	0.888	A BB	136320.	3.692	NG	5.25	YES QQ
21	330	1322	21:10	1	1.136	A BB	41088.	6.622	NG	9.42	YES QQ

No	Rat(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:04		0.860						
3	16:20	1.01	0.875	1.01	0.09	50.00	0.001	0.376	0.00
4	16:27		0.881						
5	16:31	1.00	0.902	1.01	0.01	50.00	0.000	1.110	0.00
6	17:19	1.00	0.927	1.00	0.08	50.00	0.001	0.721	0.00
7	18:03	1.00	0.967	1.00	0.03	50.00	0.001	1.518	0.00
8	18:11	1.00	0.973	1.00	0.15	50.00	0.005	1.790	0.00
9	18:38	1.00	0.998	1.00	0.10	50.00	0.001	0.338	0.00
10	18:46	1.00	1.005	1.00	4.44	50.00	0.109	1.224	0.09
11	18:58	1.00	1.015	1.00	0.14	50.00	0.000	0.049	0.00
12	19:15	1.00	1.031	1.00	8.73	50.00	0.042	0.238	0.17
13	19:17	1.00	1.033	1.00	2.24	50.00	0.079	1.760	0.04
14	19:27		1.042						
15	18:14	0.99	0.977	0.99	0.11	50.00	0.001	0.333	0.00
16	20:18	1.00	1.087	1.00	0.12	50.00	0.004	1.692	0.00
17	20:26	1.00	1.094	1.00	0.01	50.00	0.000	0.661	0.00
18	20:22	1.00	1.091	1.00	3.62	50.00	0.098	1.355	0.07
19	20:36	1.00	1.103	1.00	0.11	50.00	0.001	0.270	0.00
20	16:35	1.00	0.889	1.00	3.69	50.00	0.084	1.135	0.07
21	21:13	1.00	1.136	1.00	6.62	50.00	0.025	0.191	0.13

MID MASS SPECTRUM
08/25/87 23:23:00 + 18:44
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 176 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1170
CALI: 14558N5R #2

BASE M/Z: 153
RIC: 296960.

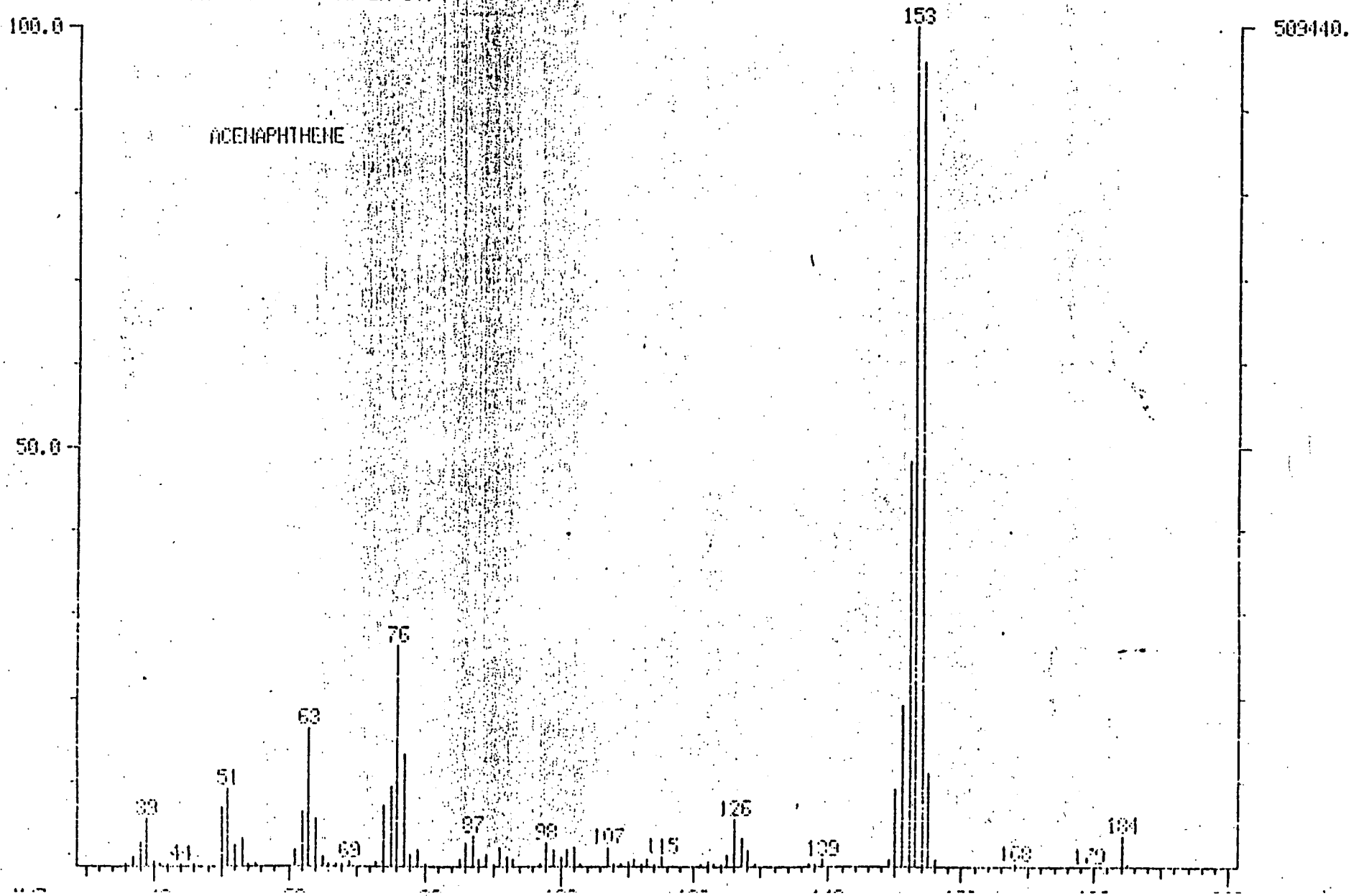


1299

MID MASS SPECTRUM
03/17/87 17:10:00 + 21:54
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 201 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1364
CALI: HSC50317 #2

BASE M/Z: 153
RIC: 2363390.

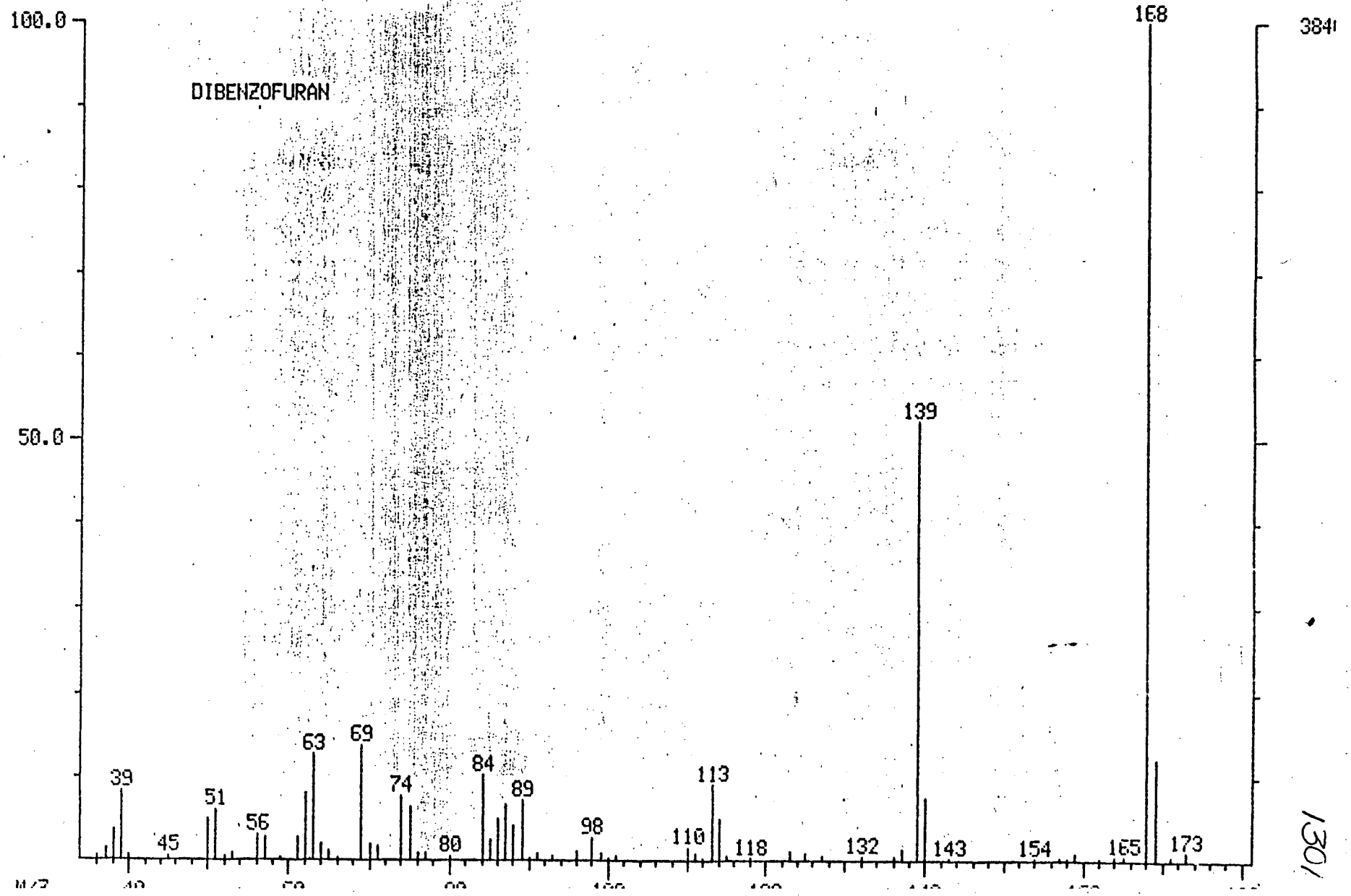


1306

MID MASS SPECTRUM
08/25/87 23:23:00 + 19:15
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 179 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1202
CALI: 14558N5R #2

BASE M/Z: 168
RIC: 131072.



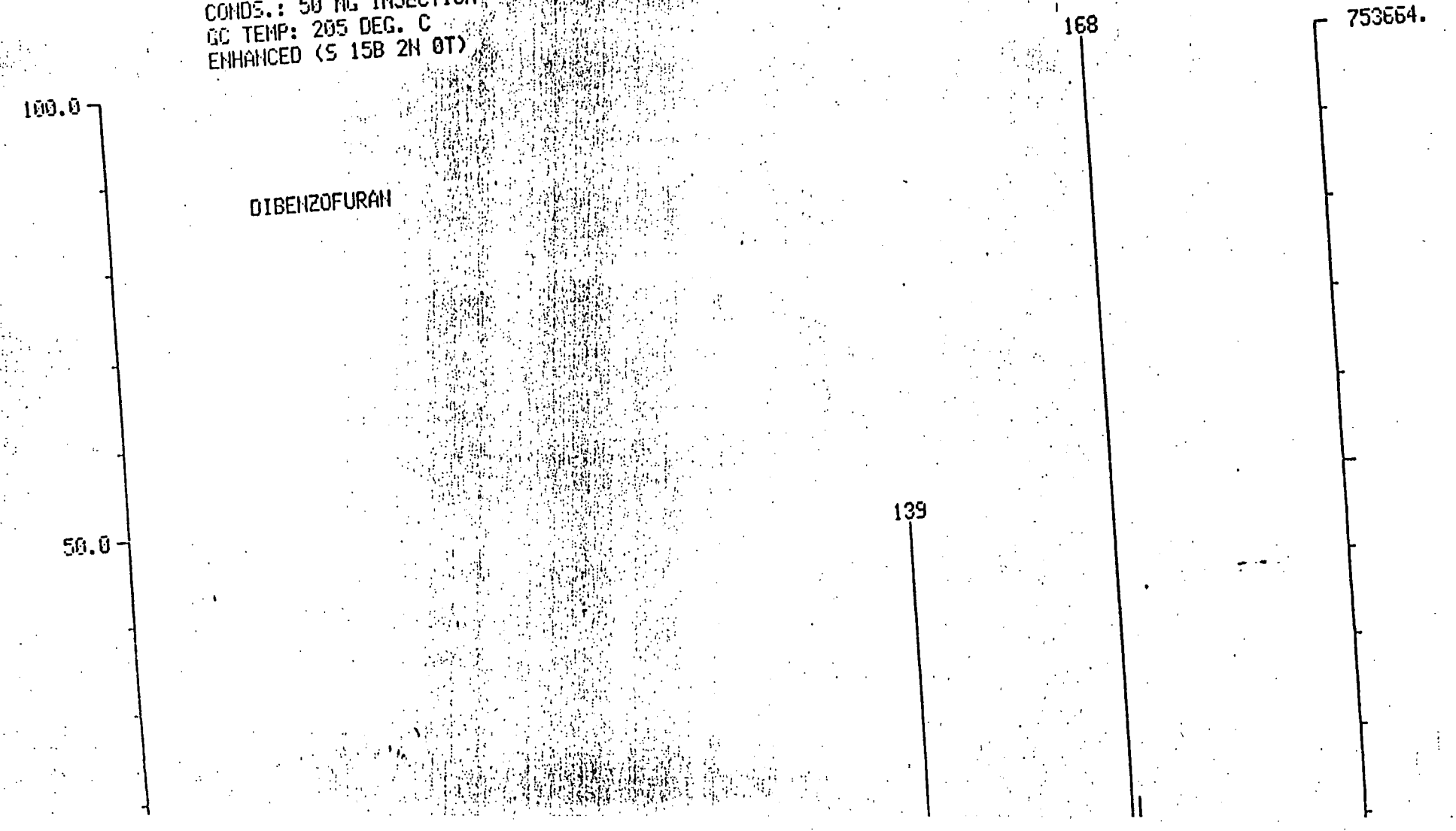
1301

MID MASS SPECTRUM
03/17/87 17:10:00 + 22:25
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 205 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1396
CALI: HSC50317 #2

BASE M/Z: 168
RIC: 2174970.

DIBENZOFURAN

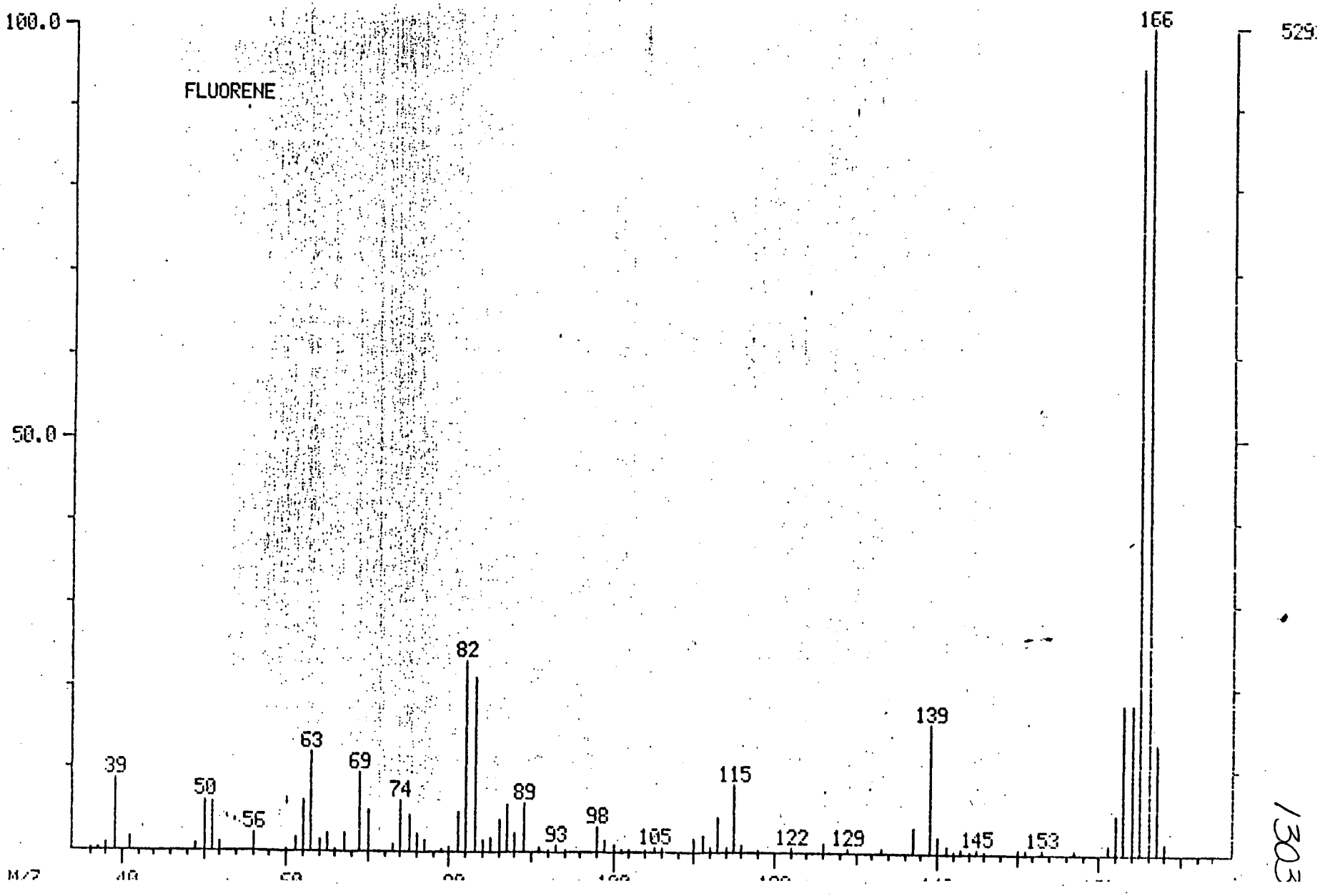


1302

MID MASS SPECTRUM
08/25/87 23:23:00 + 20:20
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 188 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1270
CALI: 14558N5R #2

BASE M/Z: 166
RIC: 244224.

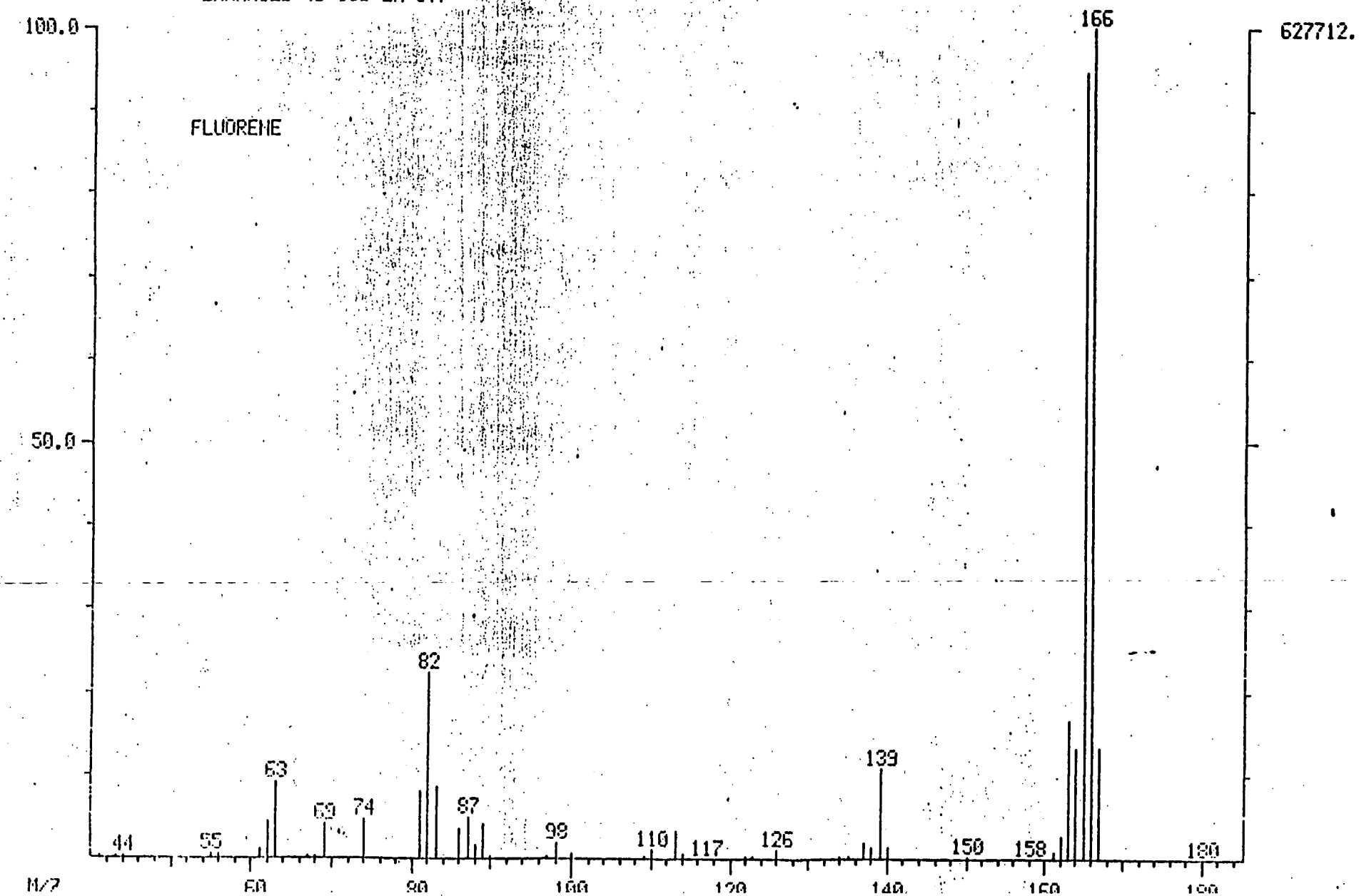


1303

MID MASS SPECTRUM
03/17/87 17:10:00 + 23:34
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 214 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1468
CALI: HSC50317 #2

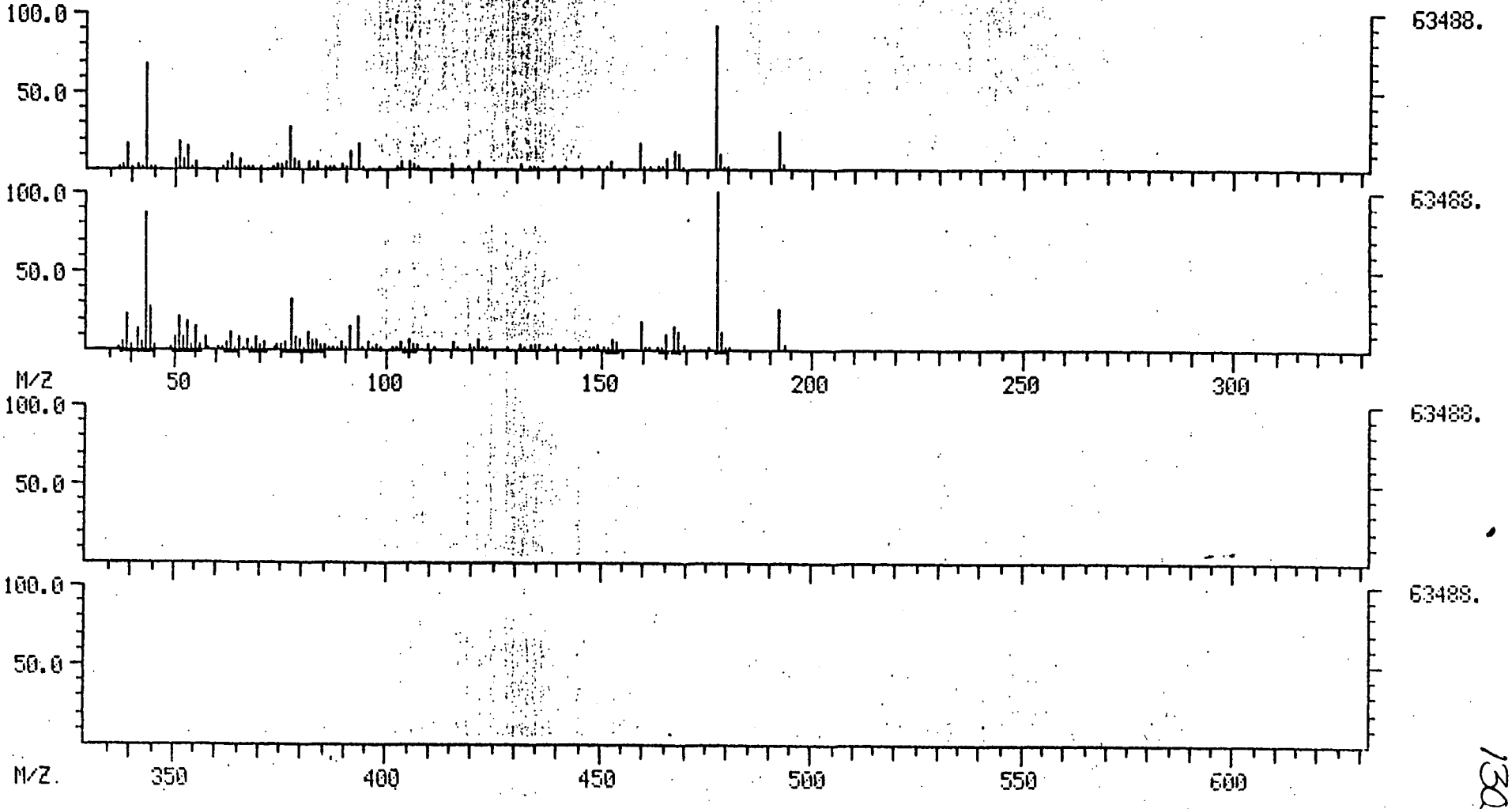
BASE M/Z: 166
RIC: 2183160.



1304

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 20:40
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 191 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1290 BASE M/Z: 177/ 177
CALI: 14558N5R #2 RIC: 338431./ 489983.

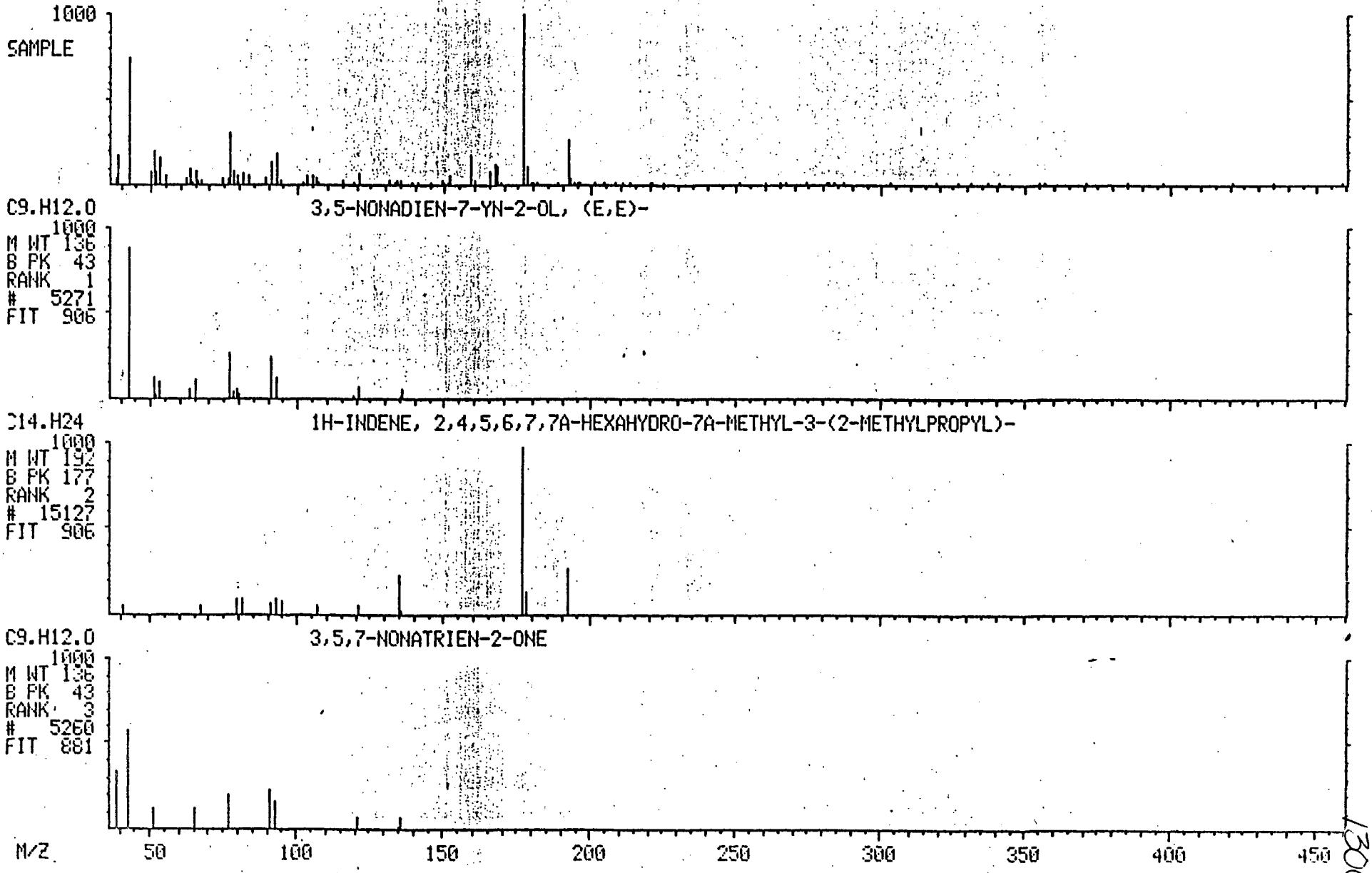


1305

MID LIBRARY SEARCH
08/25/87 23:23:00 + 20:40
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1290
CALI: 14558N5R # 2

BASE M/Z: 177
RIC: 307199.



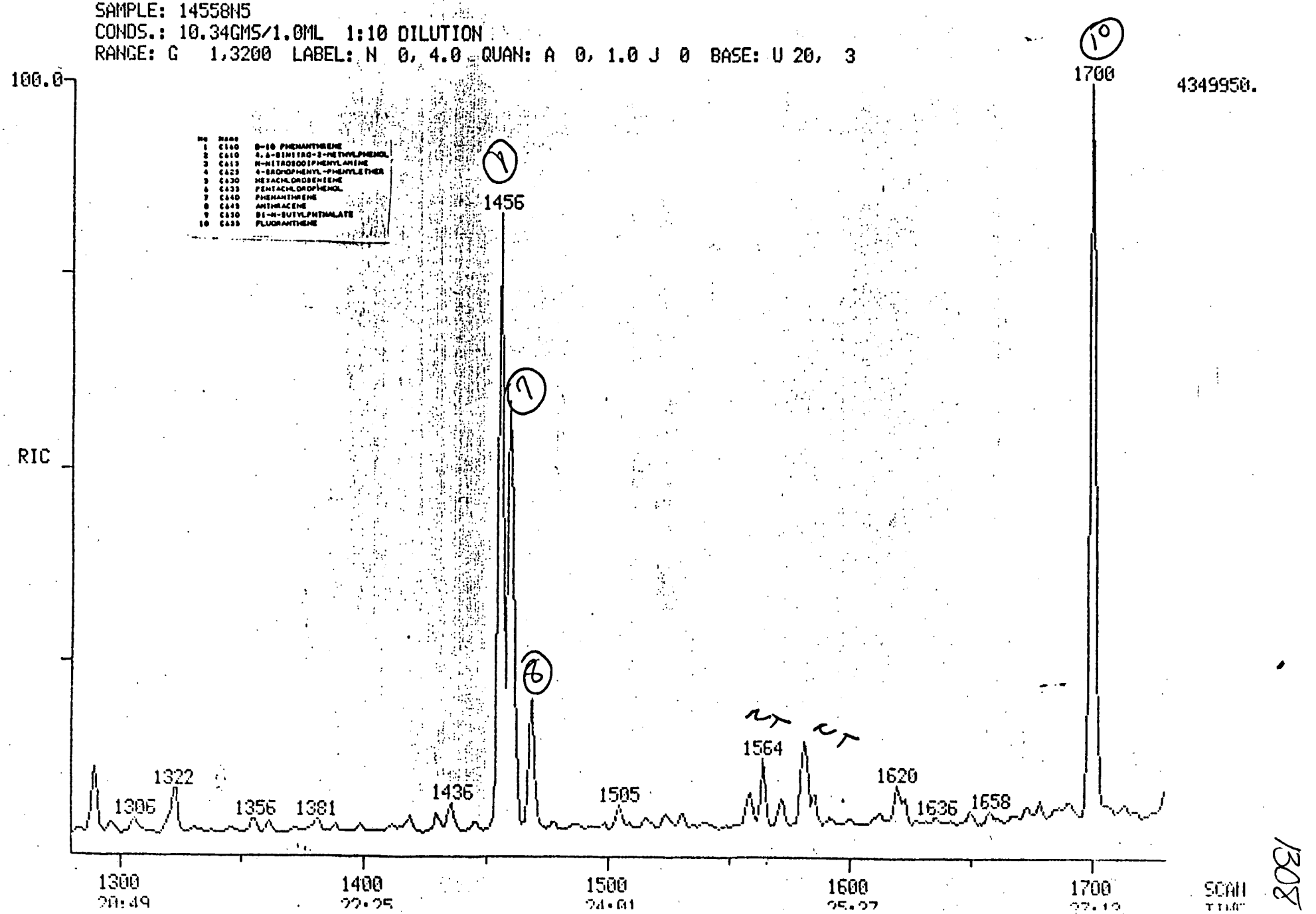
1306

MID Library Search — Data: 14558N5R #1290 — Base m/z: 177
08/25/87 23:23:00 + 20:40 — Cali: 14558N5R # 2 — RIC: 307199.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	5271	3,5-NONADIEN-7-YN-2-OL, (E,E)-
2	15127	1H-INDENE, 2,4,5,6,7,7A-HEXAHYDRO-7A-METHYL-3-(2-METHYLPROPYL)-
3	5260	3,5,7-NONATRIEN-2-ONE
4	1853	CYCLOPROPENE, 1-METHYL-3-(2-METHYLCYCLOPROPYL)-
5	8010	HYDROPEROXIDE, 1-METHYL-1-PHENYLETHYL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H12.O	136	43	214	906	228
2	C14.H24	192	177	460	906	478
3	C9.H12.O	136	43	172	881	188
4	C8.H12	108	93	147	866	162
5	C9.H12.O2	152	43	190	843	207

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	43142-43-4
2	—	—	—	—	66708-26-7
3	—	—	—	—	17609-32-4
4	—	—	—	—	61142-26-5
5	—	—	—	—	80-15-9


MIDRIC
08/25/87 23:23:00
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558N5R #1
CALI: 14558N5R #2
SCANS 1280 TO 1730
100.0
RIC
4349950.
1456
1700
1322
1305
1356
1381
1435
1505
1564
1620
1635
1658
1300
1400
1500
1600
1700
SCAN

Quantitation Report File: 14558N5R

Data: 14558N5R.TI
08/25/87 23:23:00
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558N5R

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

No	Name		
1	CI60	D-10 PHENANTHRENE	(INT. STD.)
2	C610	4,6-DINITRO-2-METHYLPHENOL	
3	C615	N-NITROSODIPHENYLAMINE	*
4	C625	4-BROMOPHENYL-PHENYLETHER	
5	C630	HEXACHLOROBENZENE	
6	C635	PENTACHLOROPHENOL	*
7	C640	PHENANTHRENE	
8	C645	ANTHRACENE	
9	C650	DI-N-BUTYLPHTHALATE	
10	C655	FLUORANTHENE	*

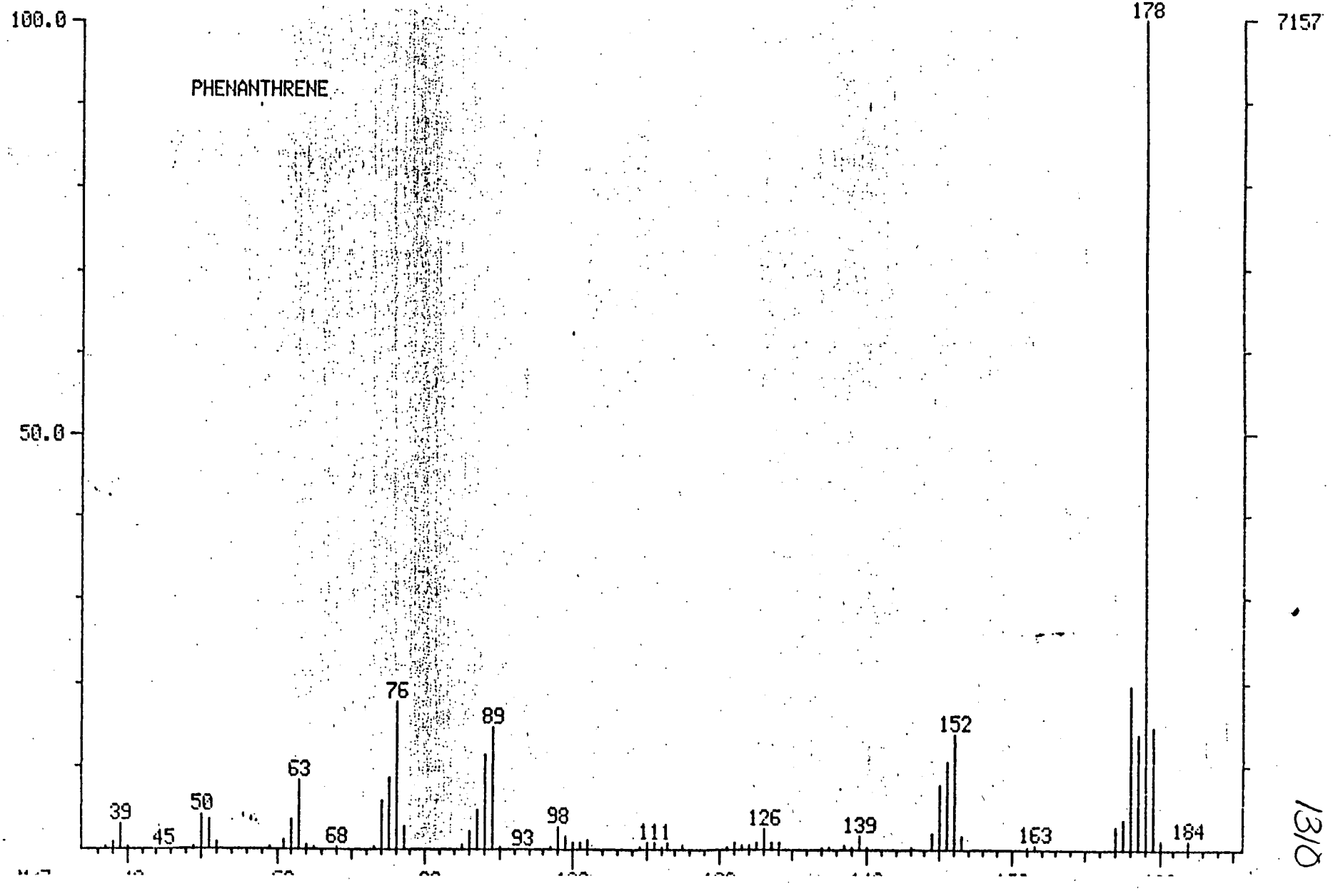
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	188	1456	23:19	1	1.000	A BV	2559280.	40.000 NG	26.26	
2	NOT FOUND									
3	169	1289	20:39	1	0.885	A VV	~~6174.~~	~~0.190 NG~~	~~0.12~~	NO QQU
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	178	1460	23:23	1	1.003	A BV	2345970.	34.232 NG	22.47	YES QQU
8	178	1468	23:31	1	1.008	A VV	687856.	10.098 NG	6.63	YES QQU
9	149	1592	25:30	1	1.093	A VB	~~31463.~~	~~0.317 NG~~	0.21	NO QQU
10	202	1700	27:13	1	1.168	A BV	4069880.	67.487 NG	44.31	YES QQU

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	23:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:44		0.888						
3	20:51	0.99	0.893	0.99	0.19	50.00	0.002	0.533	0.00
4	21:58		0.941						
5	22:24		0.960						
6	22:59		0.984						
7	23:26	1.00	1.003	1.00	34.23	50.00	0.733	1.071	0.68
8	23:34	1.00	1.010	1.00	10.10	50.00	0.215	1.065	0.20
9	25:33	1.00	1.094	1.00	0.32	50.00	0.010	1.553	0.01
10	27:15	1.00	1.167	1.00	67.49	50.00	1.272	0.943	1.35

MID MASS SPECTRUM
08/25/87 23:23:00 + 23:23
SAMPLE: 14558N5
CONDS.: 10.34GM5/1.0ML 1:10 DILUTION
GC TEMP: 213 DEG. C.
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1460
CALI: 14558N5R #2

BASE M/Z: 178
RIC: 2236410.

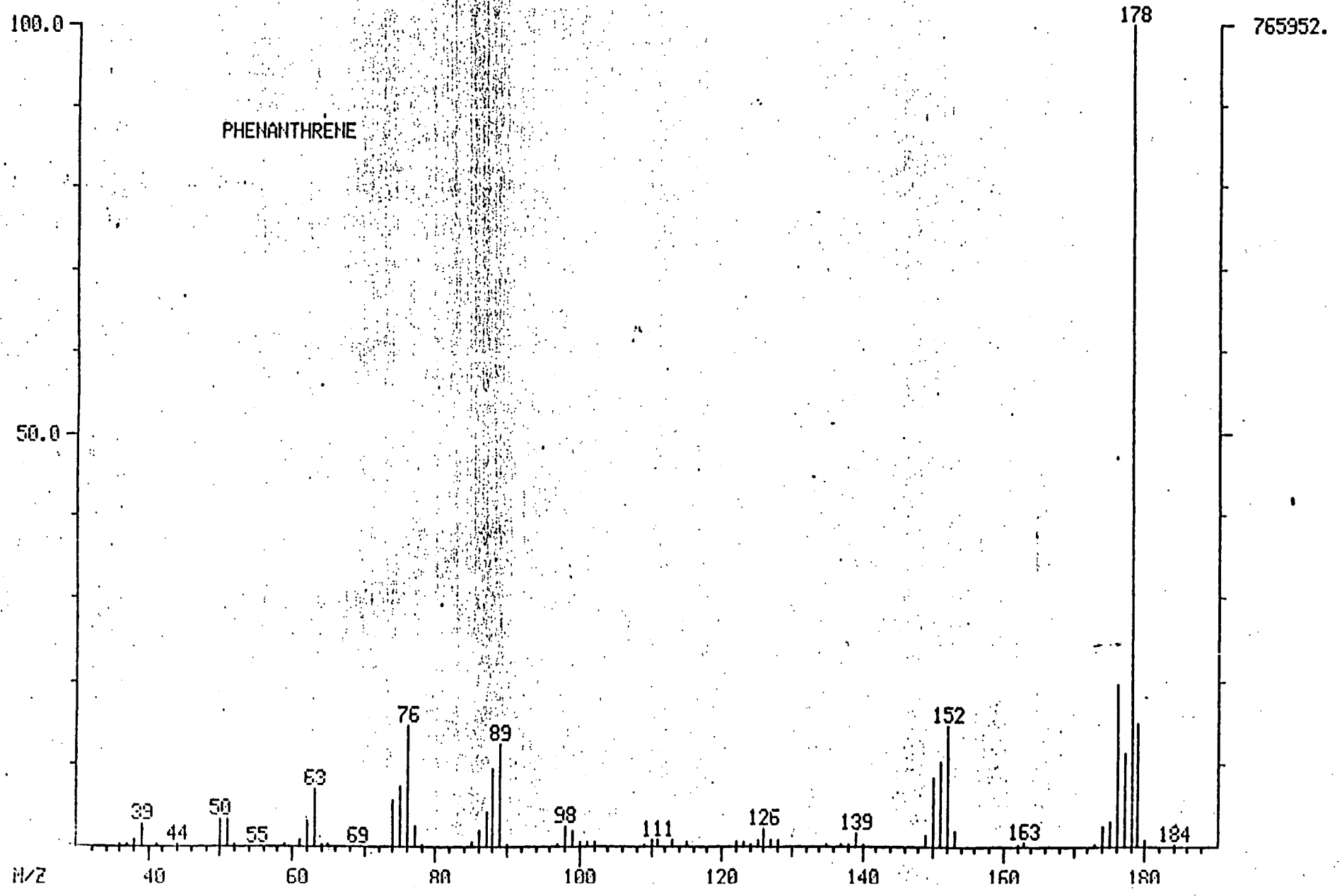


130

MID MASS SPECTRUM
03/17/87 17:10:00 + 26:47
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 240 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1668
CALI: HSC50317 #2

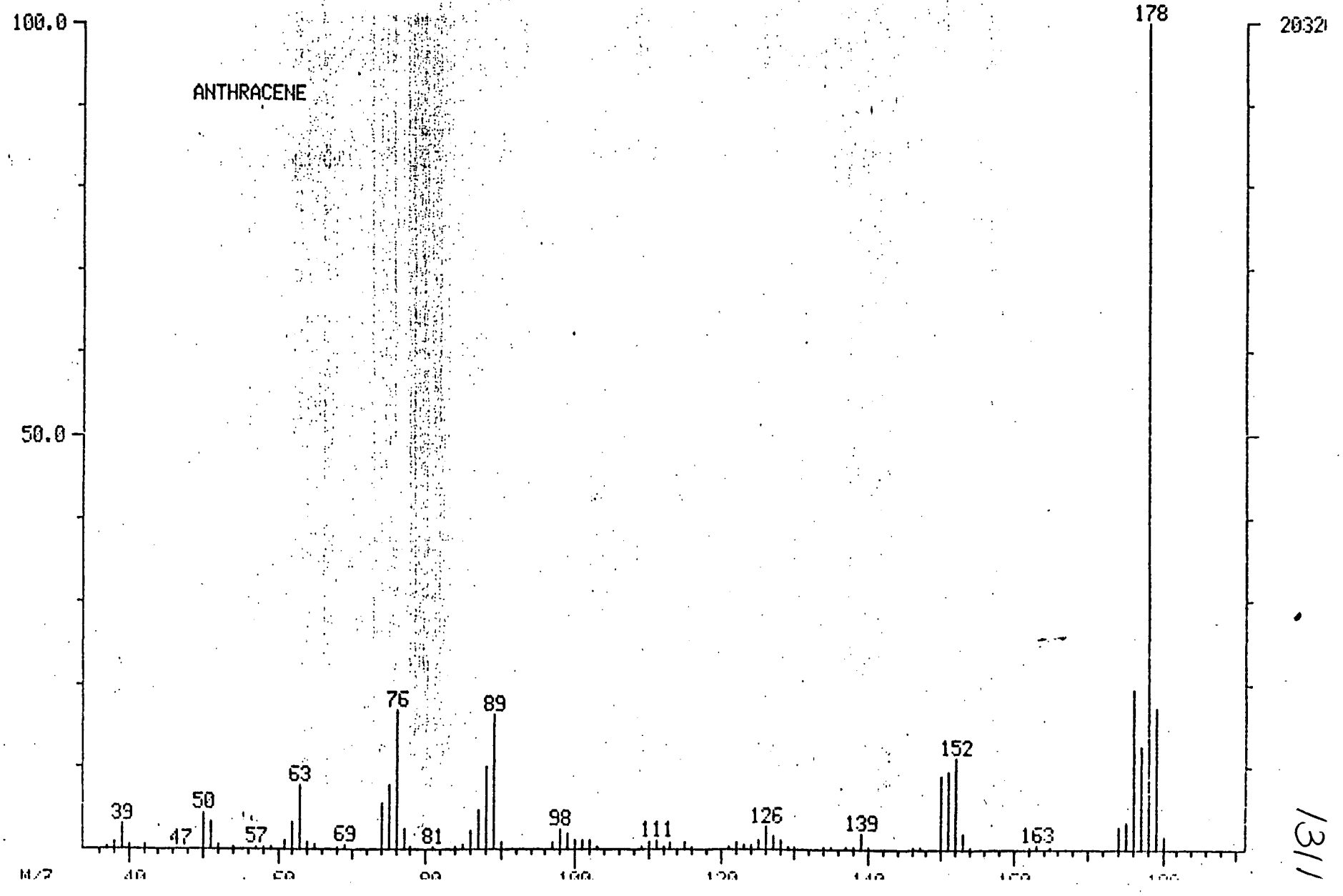
BASE M/Z: 178
RIC: 2232310.



MID MASS SPECTRUM
08/25/87 23:23:00 + 23:31
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 214 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1468
CALI: 14558N5R #2

BASE M/Z: 178
RIC: 640000.

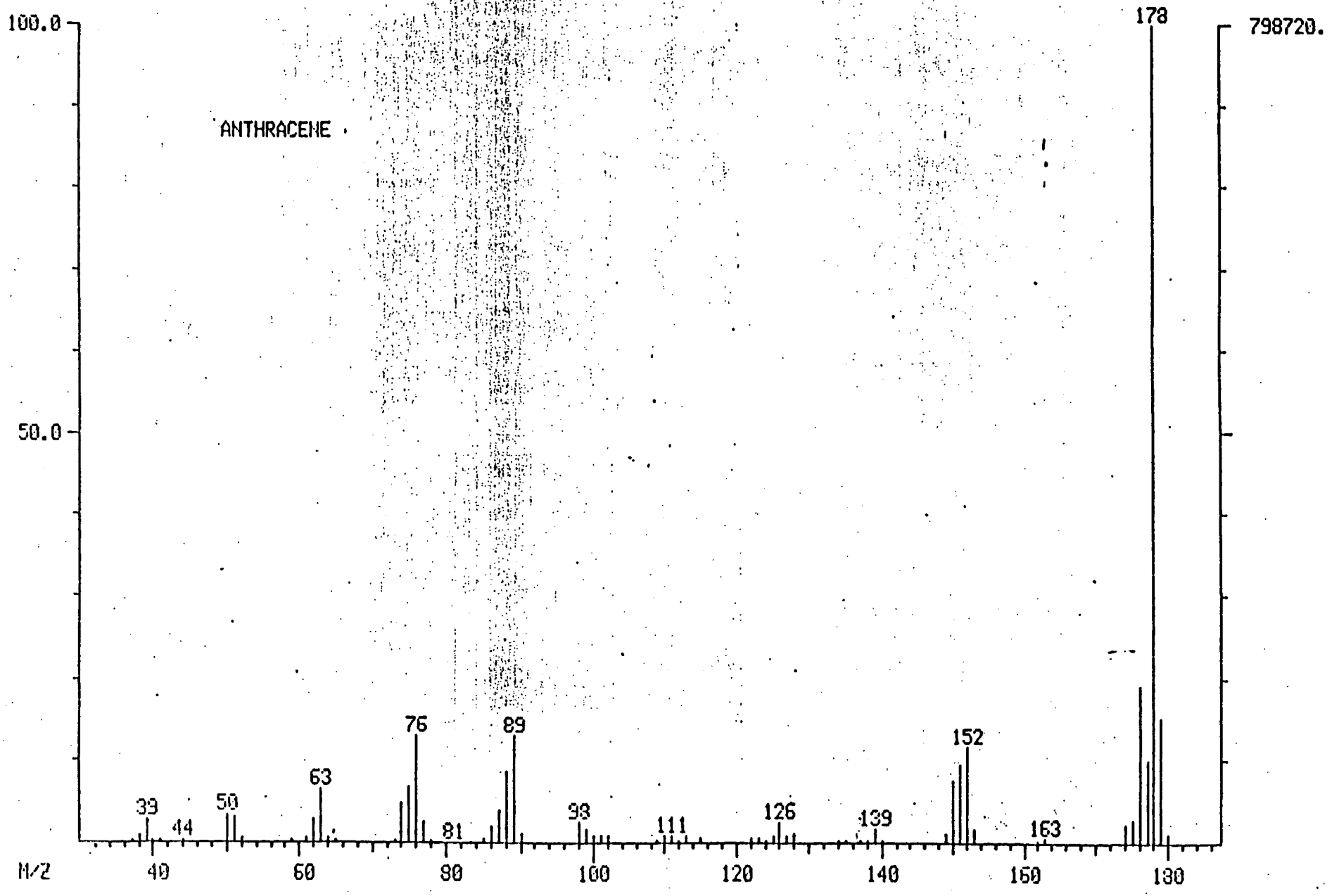


13/1

MID MASS SPECTRUM
03/17/87 17:10:00 + 26:56
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 242 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1677
CALI: HSC50317 #2

BASE M/Z: 178
RIC: 2252790.

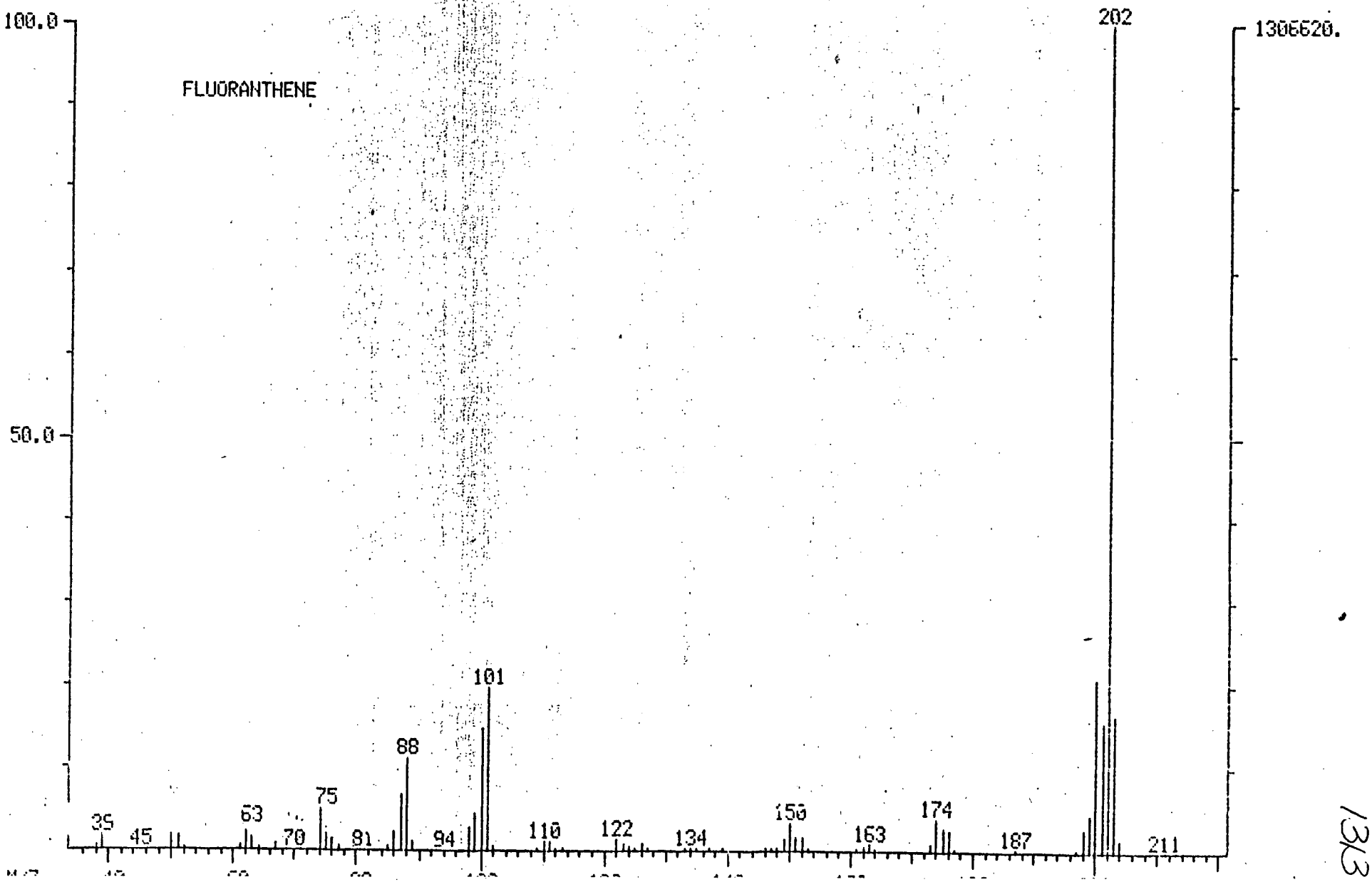


13/2

MID MASS SPECTRUM
08/25/87 23:23:00 + 27:13
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 244 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1700
CALI: 14558N5R #2

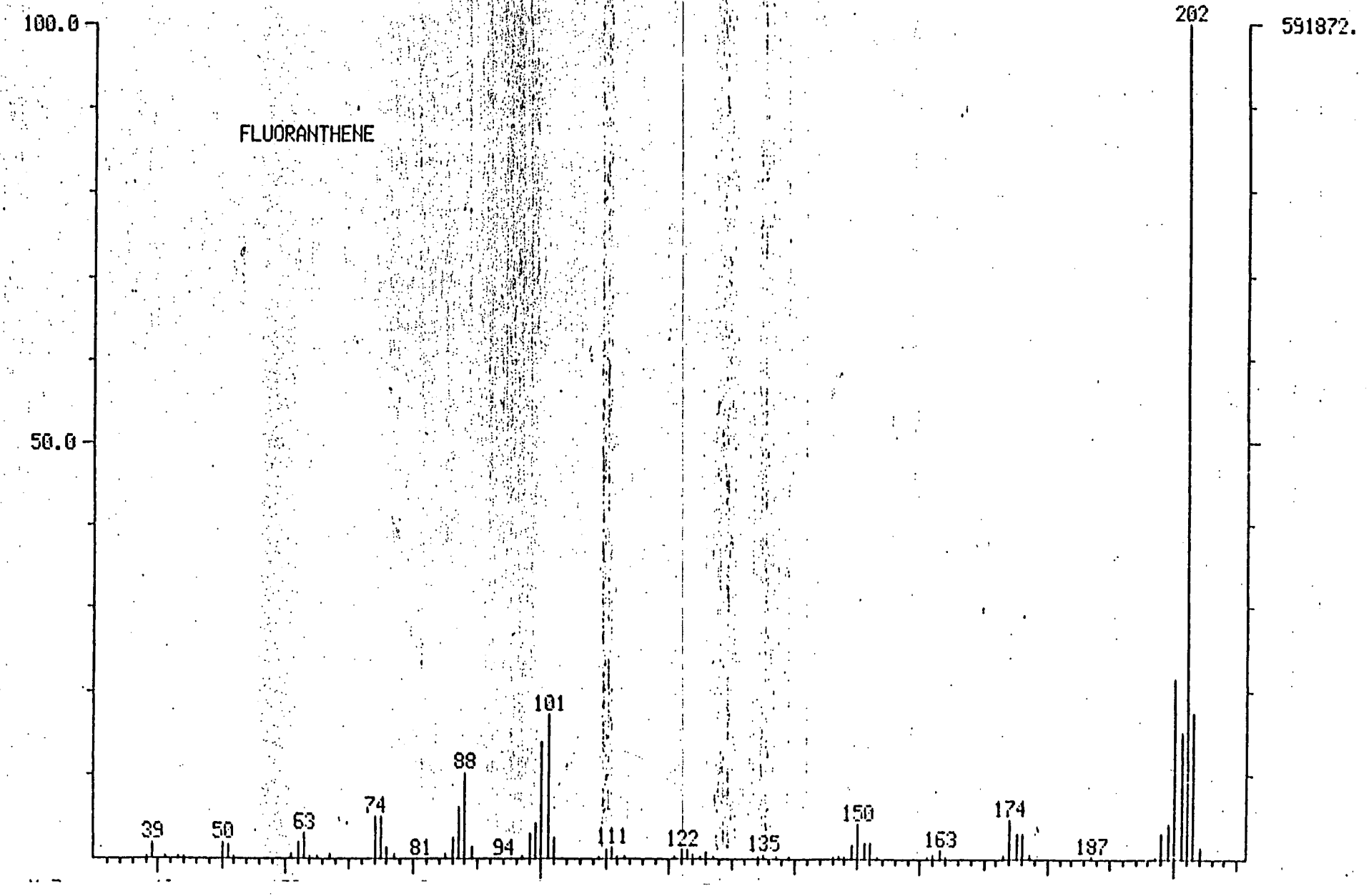
BASE M/Z: 202
RIC: 3682300.



MID MASS SPECTRUM
03/17/87 17:10:00 + 30:48
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 273 DEG. C
ENHANCED (S 15B 2N 0T)

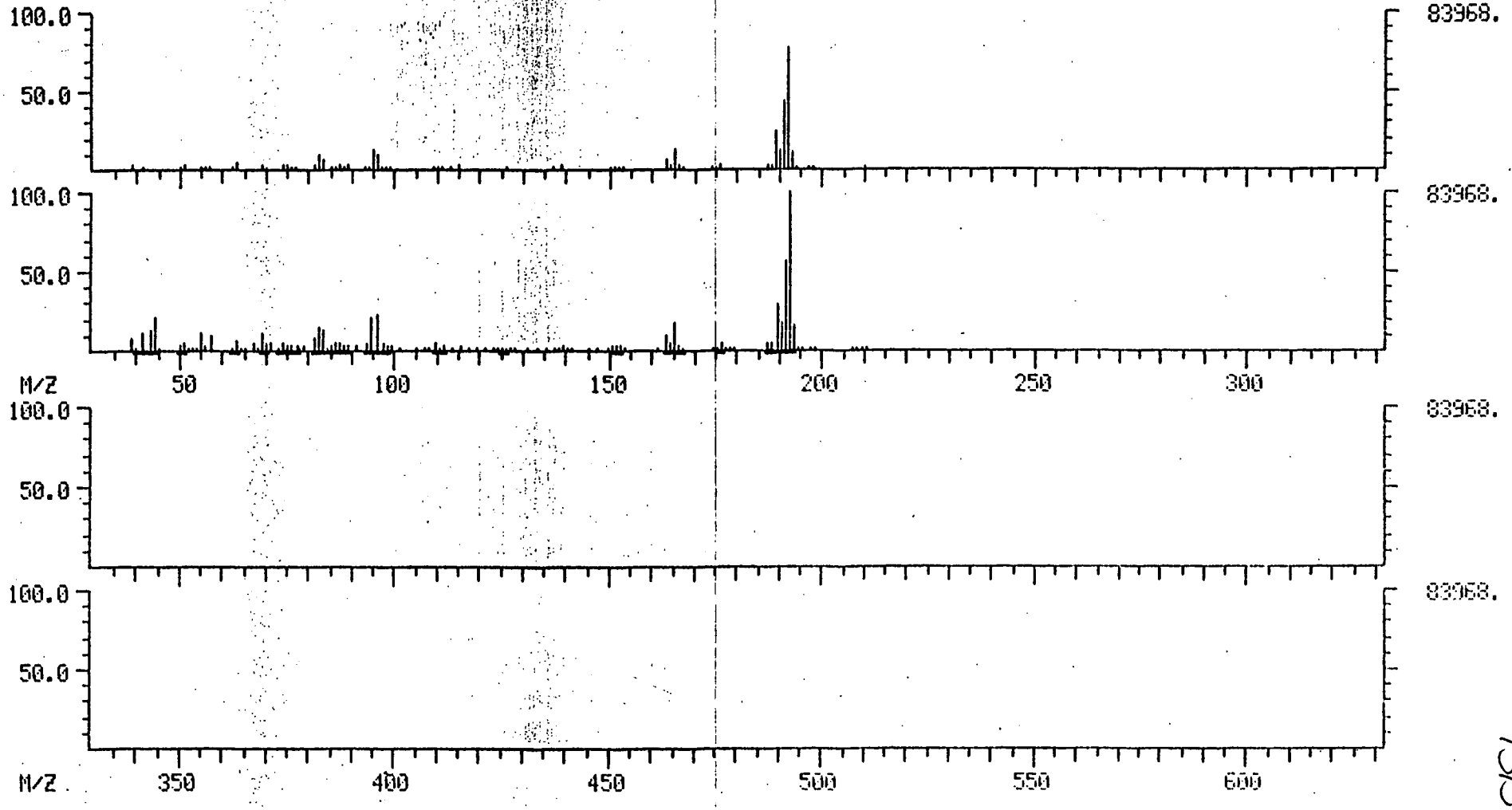
DATA: HSC50317 #1918
CALI: HSC50317 #2

BASE M/Z: 202
RIC: 1685500.



MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 25:03
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 227 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1564 BASE M/Z: 192/ 192
CALI: 14558N5R #2 RIC: 302591./ 545791.

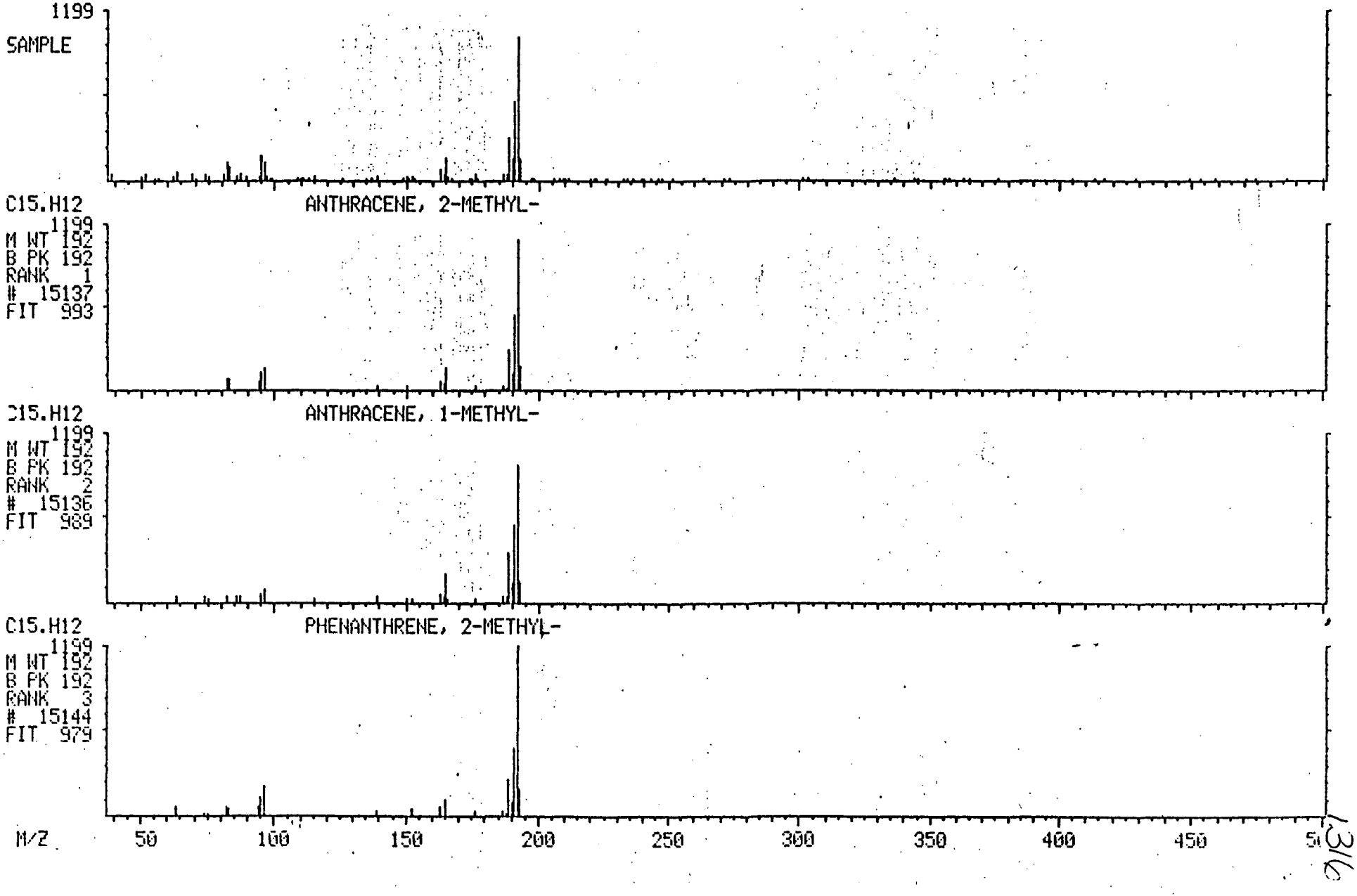


13/5

MID LIBRARY SEARCH
08/25/87 23:23:00 + 25:03
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1564
CALI: 14558N5R # 2

BASE M/Z: 192
RIC: 273407.



MID Library Search Data: 14558N5R #1564 Base m/z: 192
08/25/87 23:23:00 + 25:03 Cali: 14558N5R # 2 RIC: 273407.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N 0T)

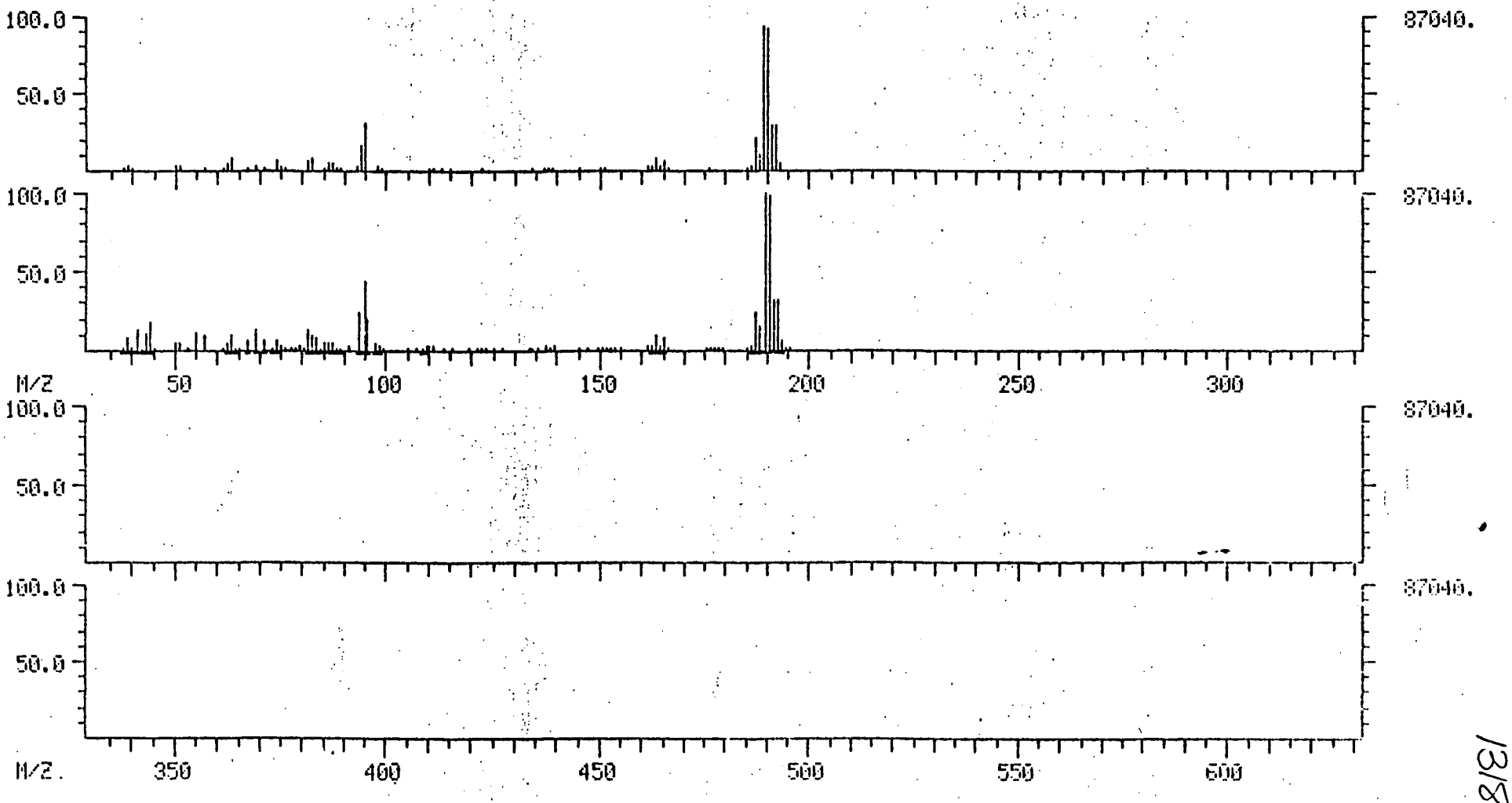
Rank	In.	Name
1	15137	ANTHRACENE, 2-METHYL-
2	15136	ANTHRACENE, 1-METHYL-
3	15144	PHENANTHRENE, 2-METHYL-
4	15139	PHENANTHRENE, 4-METHYL-
5	15141	PHENANTHRENE, 3-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H12	192	192	825	993	825
2	C15.H12	192	192	853	989	853
3	C15.H12	192	192	817	979	817
4	C15.H12	192	192	812	979	822
5	C15.H12	192	192	823	978	827

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	———	———	———	———	613-12-7
2	———	———	———	———	610-48-0
3	———	———	———	———	2531-84-2
4	———	———	———	———	832-64-4
5	———	———	———	———	832-71-3

MID DUAL MASS SPECTRUM
09/25/87 23:23:00 + 25:19
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 228 DEG. C
ENHANCED (S 15B 2N 0T)

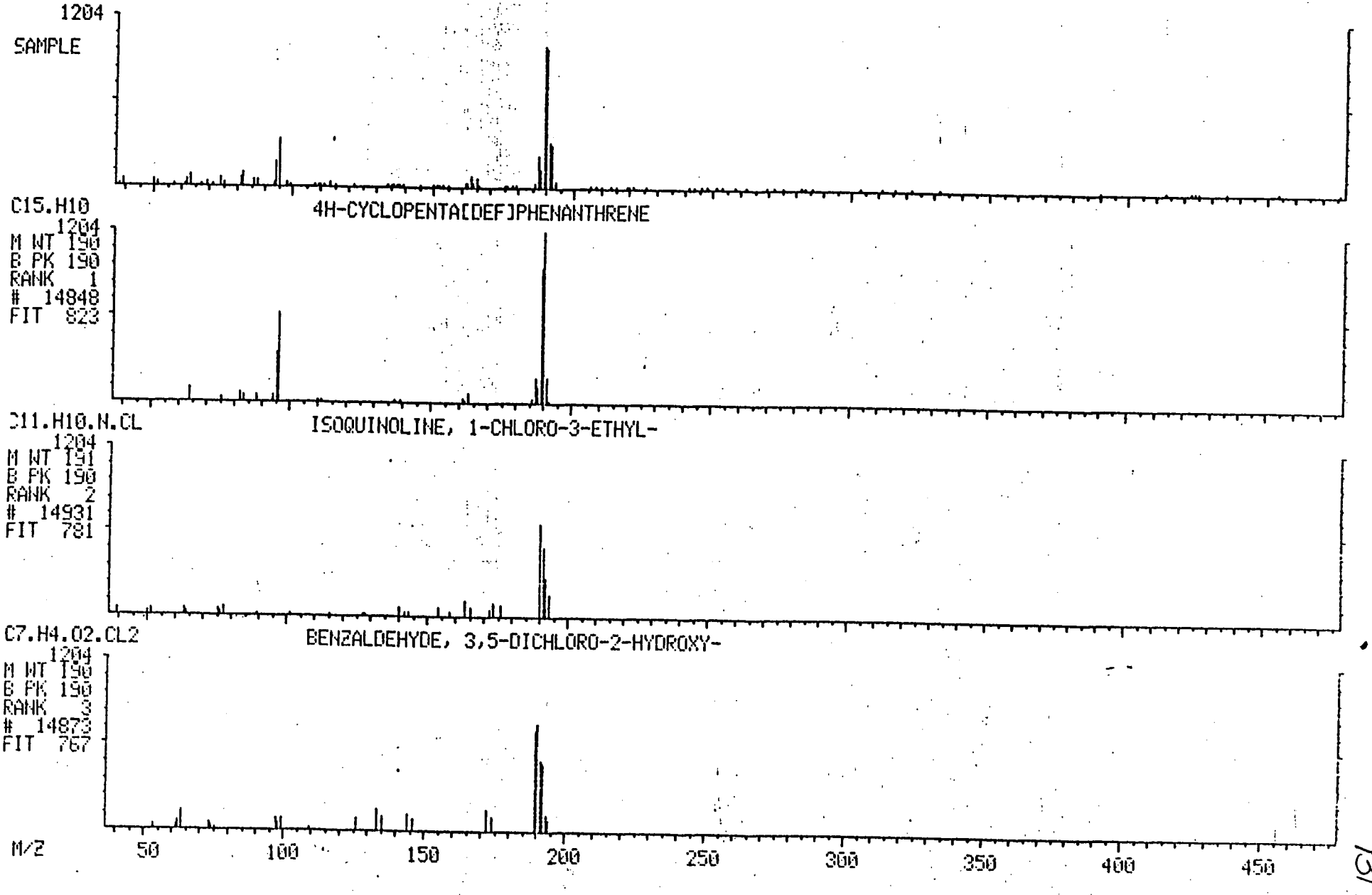
DATA: 14558N5R #1581 BASE M/Z: 189/ 189
CALI: 14558N5R #2 RIC: 420351./ 639999.



MID LIBRARY SEARCH
08/25/87 23:23:00 + 25:19
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1581
CALI: 14558N5R # 2

BASE M/Z: 189
RIC: 401407.

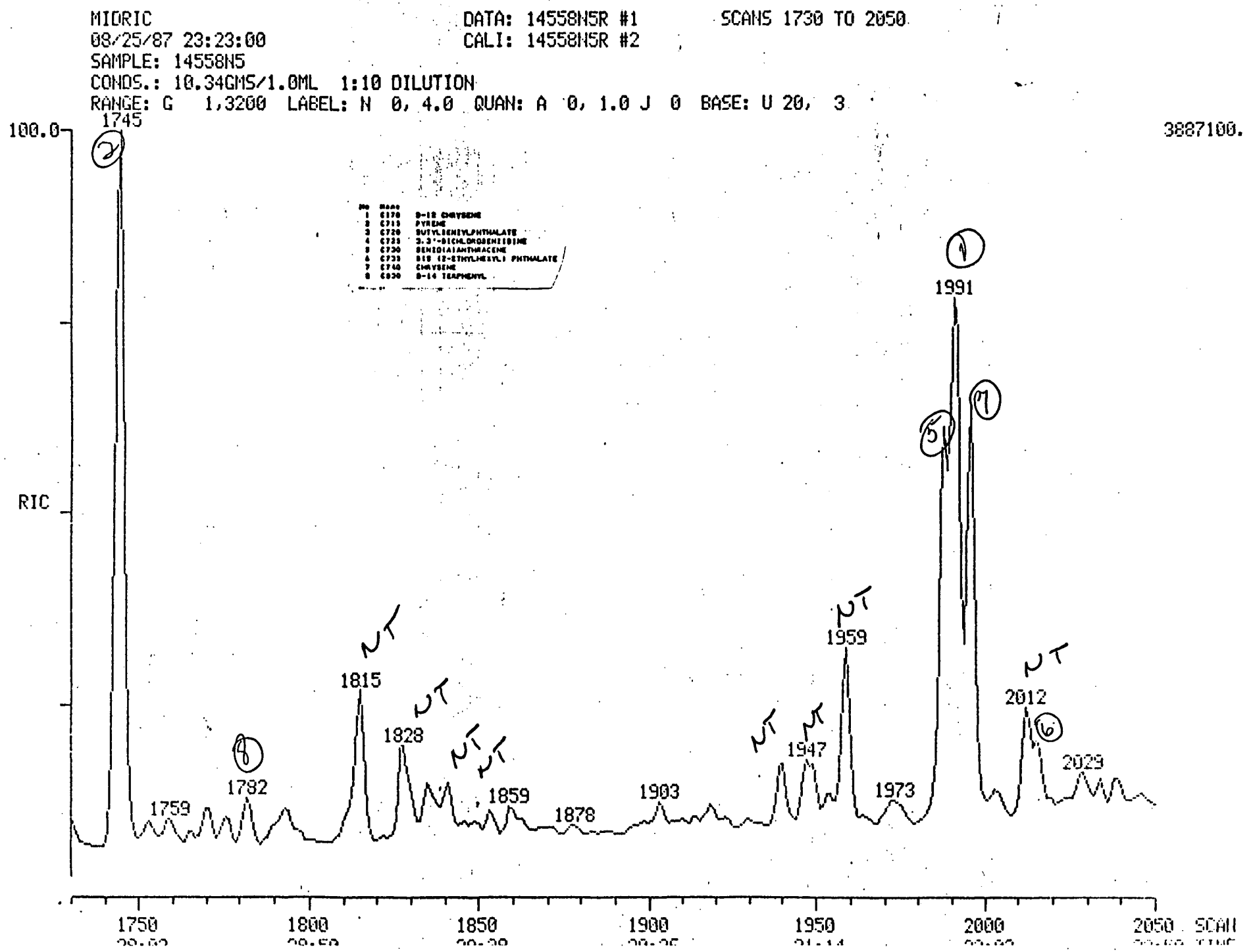


MID Library Search Data: 14558N5R #1581 Base m/z: 189
08/25/87 23:23:00 + 25:19. Cali: 14558N5R # 2 RIC: 401407.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	14848	4H-CYCLOPENTA[DEF]PHENANTHRENE
2	14931	ISOQUINOLINE, 1-CHLORO-3-ETHYL-
3	14873	BENZALDEHYDE, 3,5-DICHLORO-2-HYDROXY-
4	14963	9H-FLUORENE-2-CARBONITRILE
5	15077	SPIRO[4.5]DEC-7-ENE-1,6-DIONE, 4,8-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H10	190	190	706	823	797
2	C11.H10.N.CL	191	190	363	781	439
3	C7.H4.O2.CL2	190	190	526	767	649
4	C14.H9.N	191	191	585	722	590
5	C12.H16.O2	192	137	67	708	67

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	203-64-5
2	___	___	___	___	55150-52-2
3	___	___	___	___	90-60-8
4	___	___	___	___	2523-48-0
5	___	___	___	___	69494-14-0


MIDRIC
08/25/87 23:23:00
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558N5R #1
CALI: 14558N5R #2
SCANS 1730 TO 2050
100.0
RIC
3887100.
1745
1759
1782
1815
1828
1859
1878
1903
1947
1959
1973
1991
2012
2029
NT
1750
1800
1850
1900
1950
2000
2050
SCAN

1321

Quantitation Report File: 14558N5R

Data: 14558N5R.TI
08/25/87 23:23:00
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558N5R

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

No	Name		
1	CI70	D-12 CHRYSENE	(INT. STD.)
2	C715	PYRENE	
3	C720	BUTYLBENZYLPHTHALATE	
4	C725	3,3'-DICHLOROBENZIDINE	
5	C730	BENZO(A)ANTHRACENE	
6	C745	BIS(2-ETHYLHEXYL) PHTHALATE	
7	C740	CHRYSENE	
8	CS30	D-14 TERPHENYL	(SURROGATE)

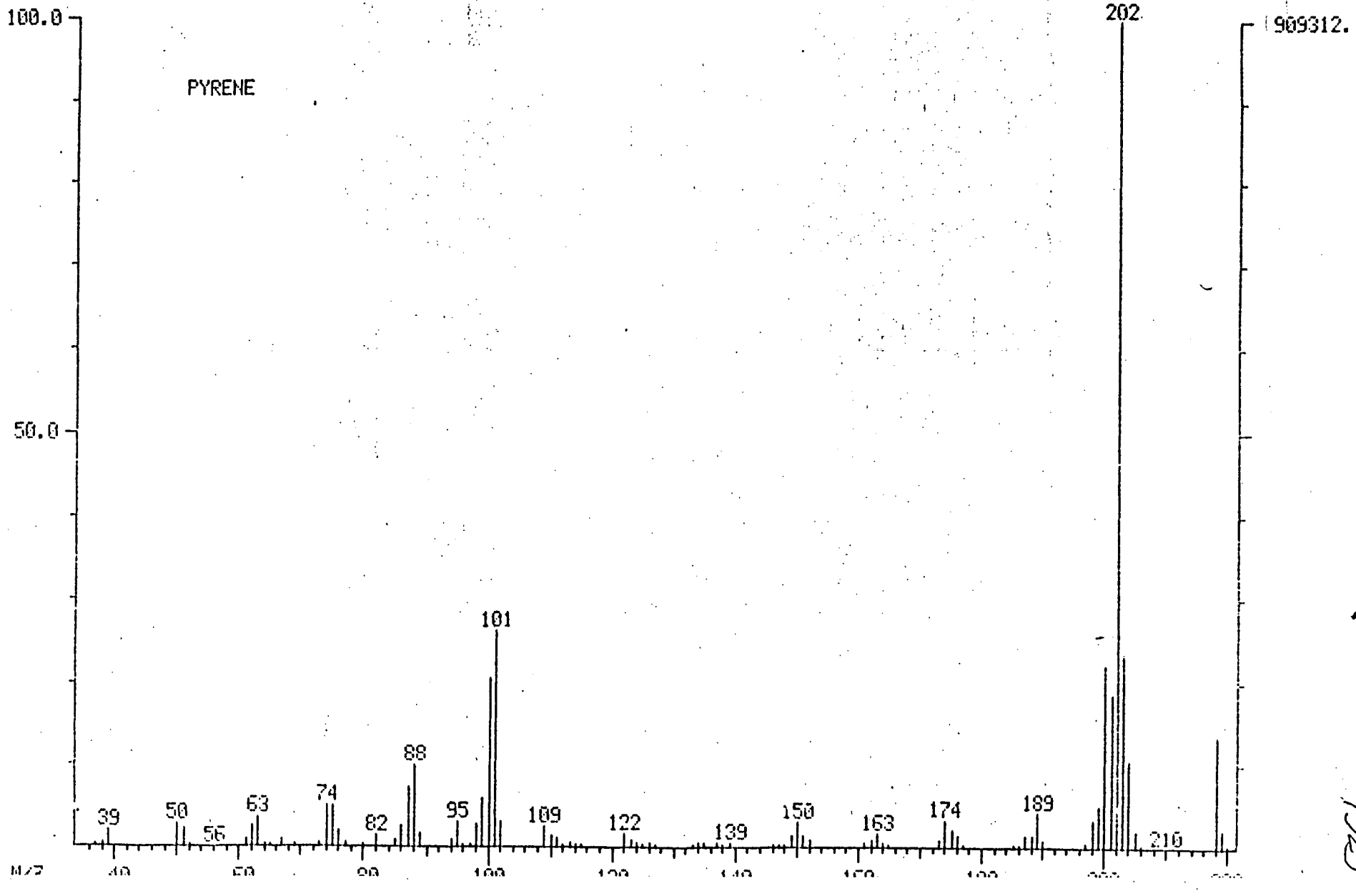
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	240	1991	31:53	1	1.000	A BB	2373150.	40.000 NG	25.88	
2	202	1744	27:56	1	0.876	A BV	3293650.	44.913 NG	29.06	YES QQV
3	149	1891	30:17	1	0.950	A*VV	~~4750.~~	~~0.145 NG~~	~~0.09~~	NO QQV
4	252	1987	31:49	1	0.998	A*BB	~~928.~~	~~0.050 NG~~	~~0.03~~	NO QQV
5	228	1988	31:50	1	0.998	A BV	2102610.	31.515 NG	20.39	YES QQV
6	149	2015	32:16	1	1.012	A BV	176100.	2.567 NG	1.66	YES QQV
7	228	1996	31:58	1	1.003	A VB	1954800.	31.148 NG	20.15	YES QQV
8	244	1782	28:32	1	0.895	M XX	197856.	4.226 NG	2.73	YES QQV

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	31:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	27:57	1.00	0.876	1.00	44.91	50.00	1.110	1.236	0.90
3	30:19	1.00	0.950	1.00	0.14	50.00	0.002	0.786	0.00
4	31:52	1.00	0.999	1.00	0.05	50.00	0.000	0.311	0.00
5	31:51	1.00	0.998	1.00	31.52	50.00	0.709	1.125	0.63
6	32:18	1.00	1.013	1.00	2.57	50.00	0.059	1.156	0.05
7	32:00	1.00	1.003	1.00	31.15	50.00	0.659	1.058	0.62
8	28:34	1.00	0.896	1.00	4.23	50.00	0.067	0.789	0.08

MID MASS SPECTRUM
08/25/87 23:23:00 + 27:57
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 250 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1745
CALI: 14558N5R #2

BASE M/Z: 202
RIC: 3252220.

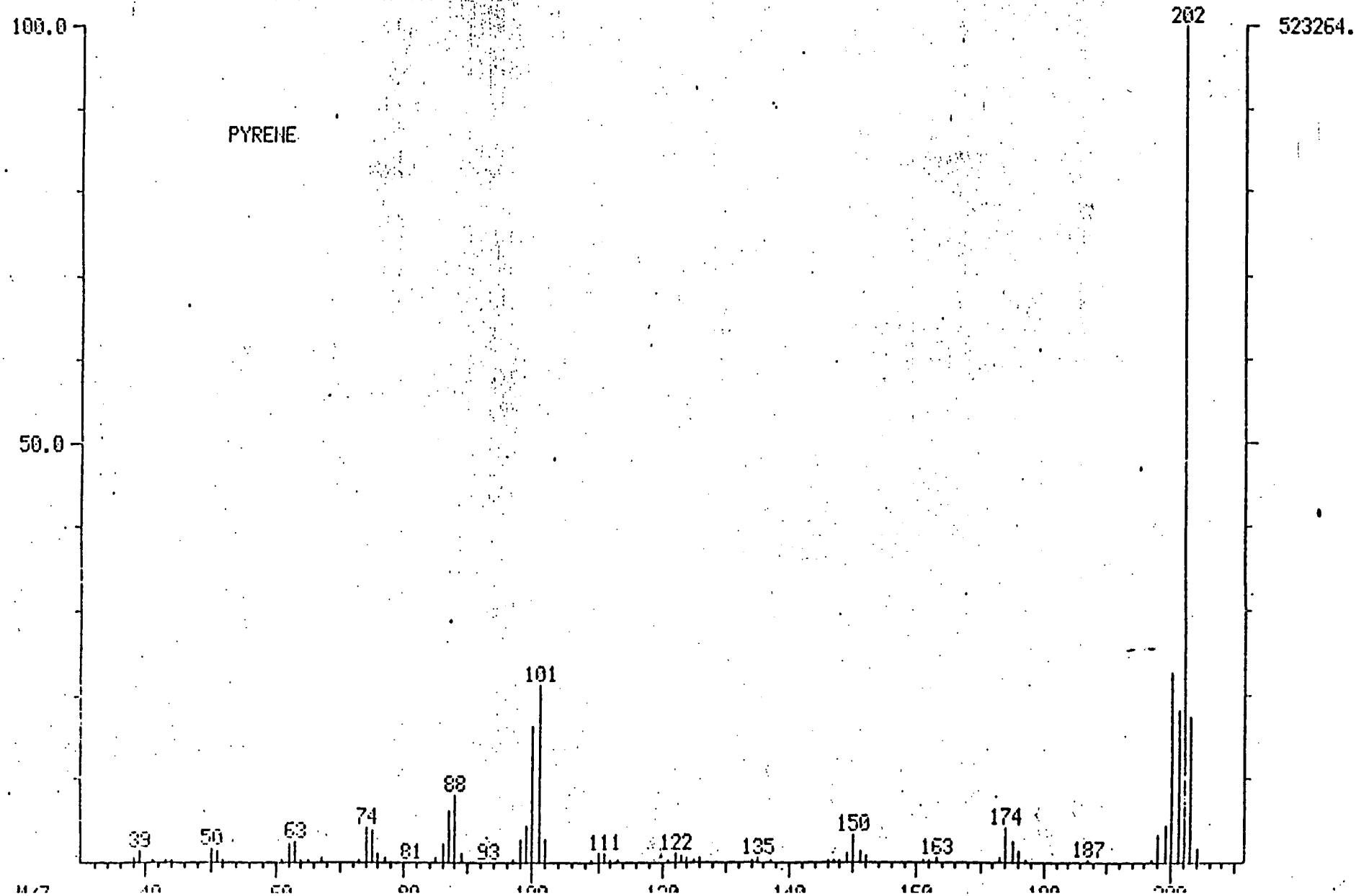


1323

MID MASS SPECTRUM
03/17/87 17:10:00 + 31:34
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 279 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1966
CALI: HSC50317 #2

BASE M/Z: 202
RIC: 1476600.

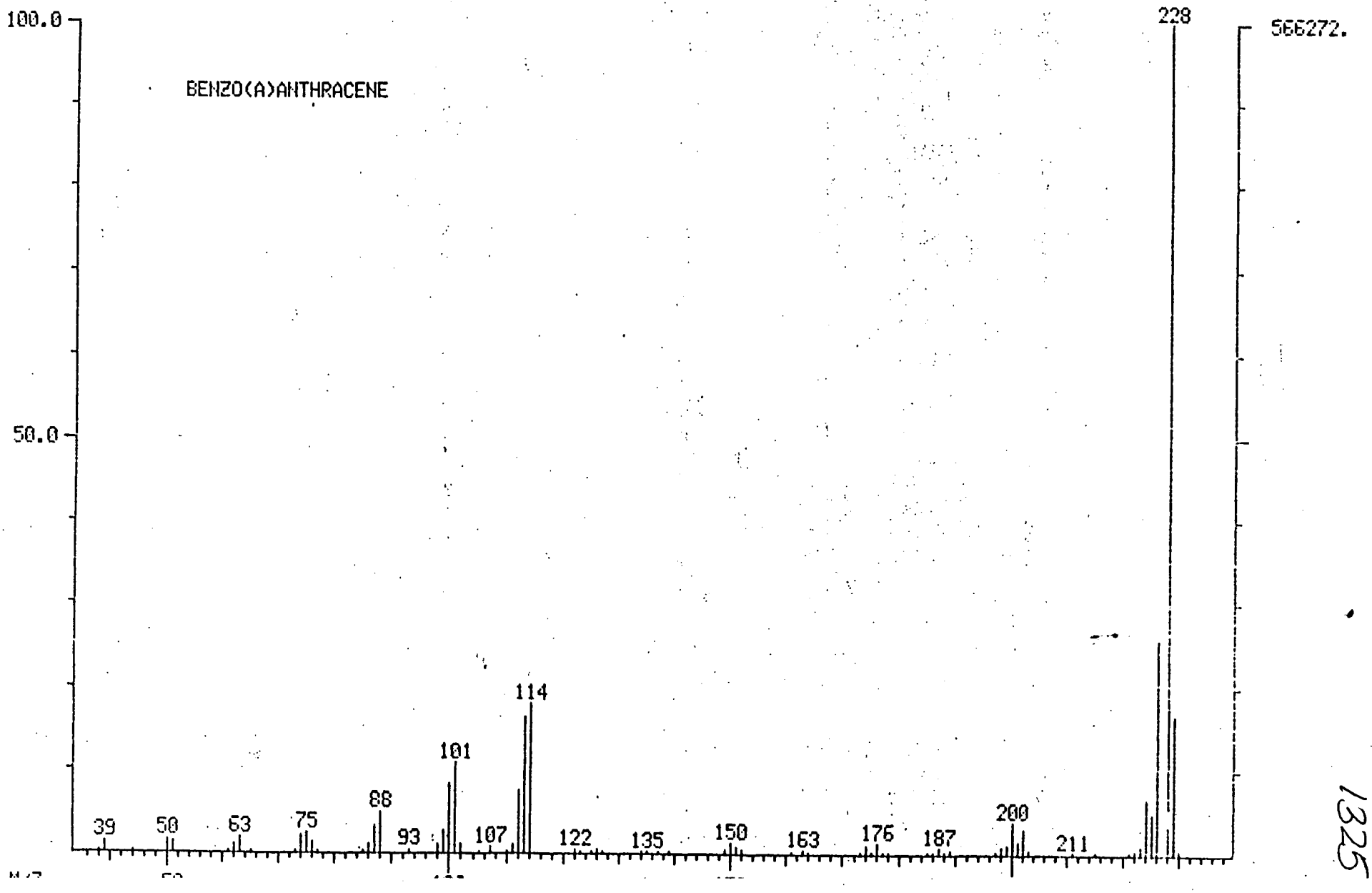


1324

MID MASS SPECTRUM
08/25/87 23:23:00 + 31:50
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 281 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1988
CALI: 14558N5R #2

BASE M/Z: 228
RIC: 1572860.

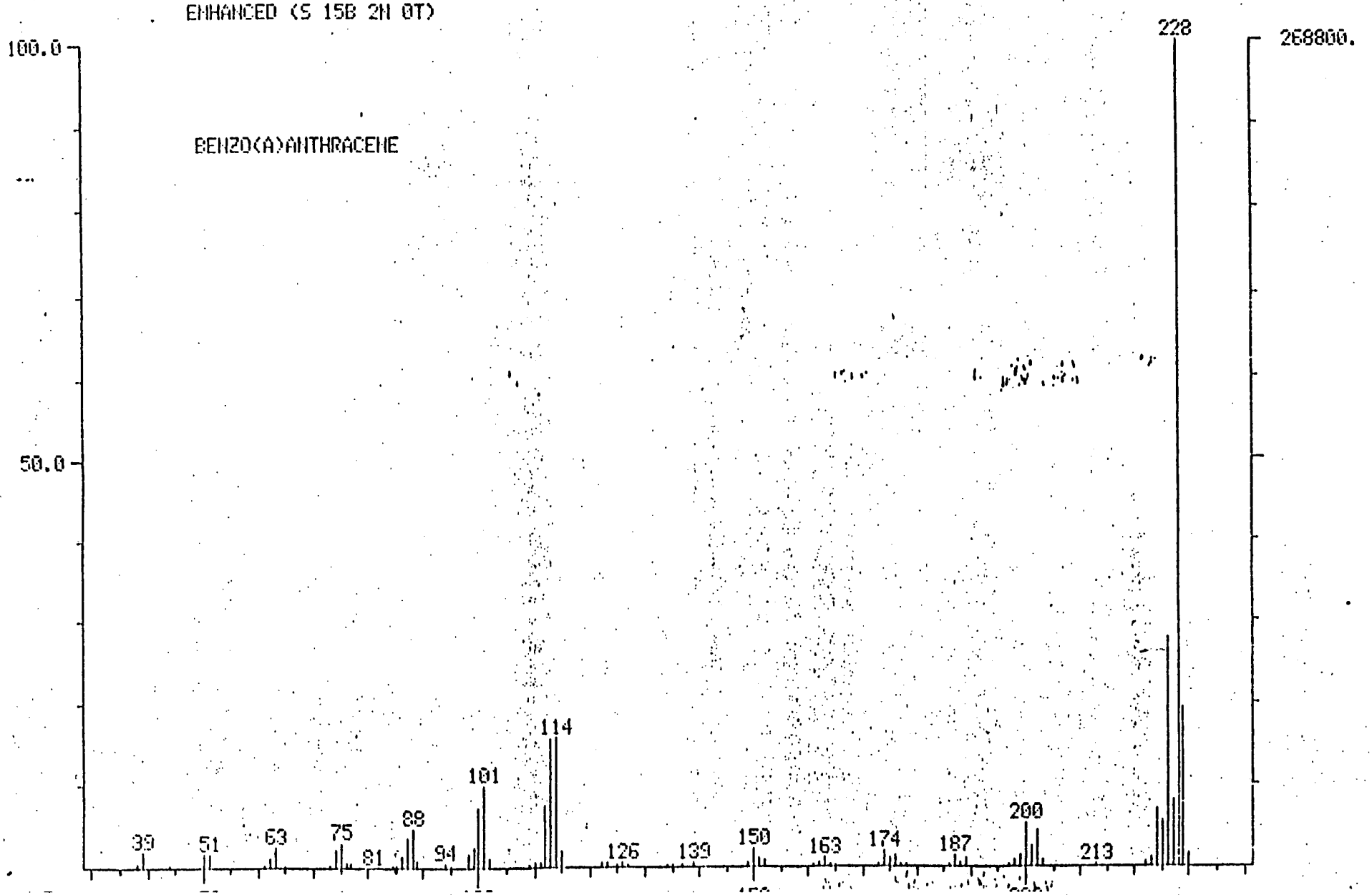


1325

MID MASS SPECTRUM
03/17/87 17:10:00 + 36:12
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 289 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #2255
CALI: HSC50317 #2

BASE M/Z: 228
RIC: 806912.

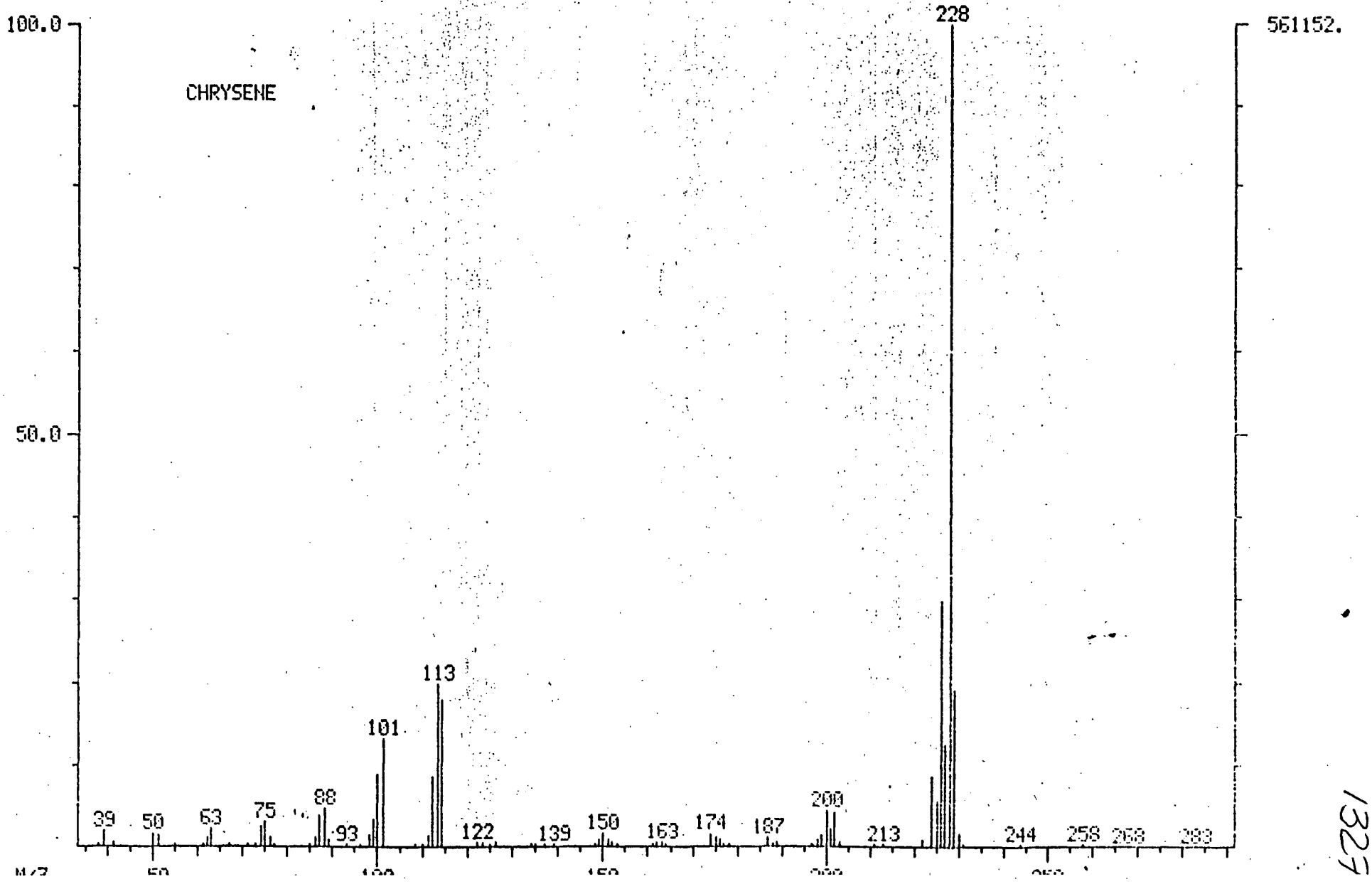


1326

MID MASS SPECTRUM
08/25/87 23:23:00 + 31:58
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 282 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1996
CALI: 14558N5R #2

BASE M/Z: 228
RIC: 1748990.

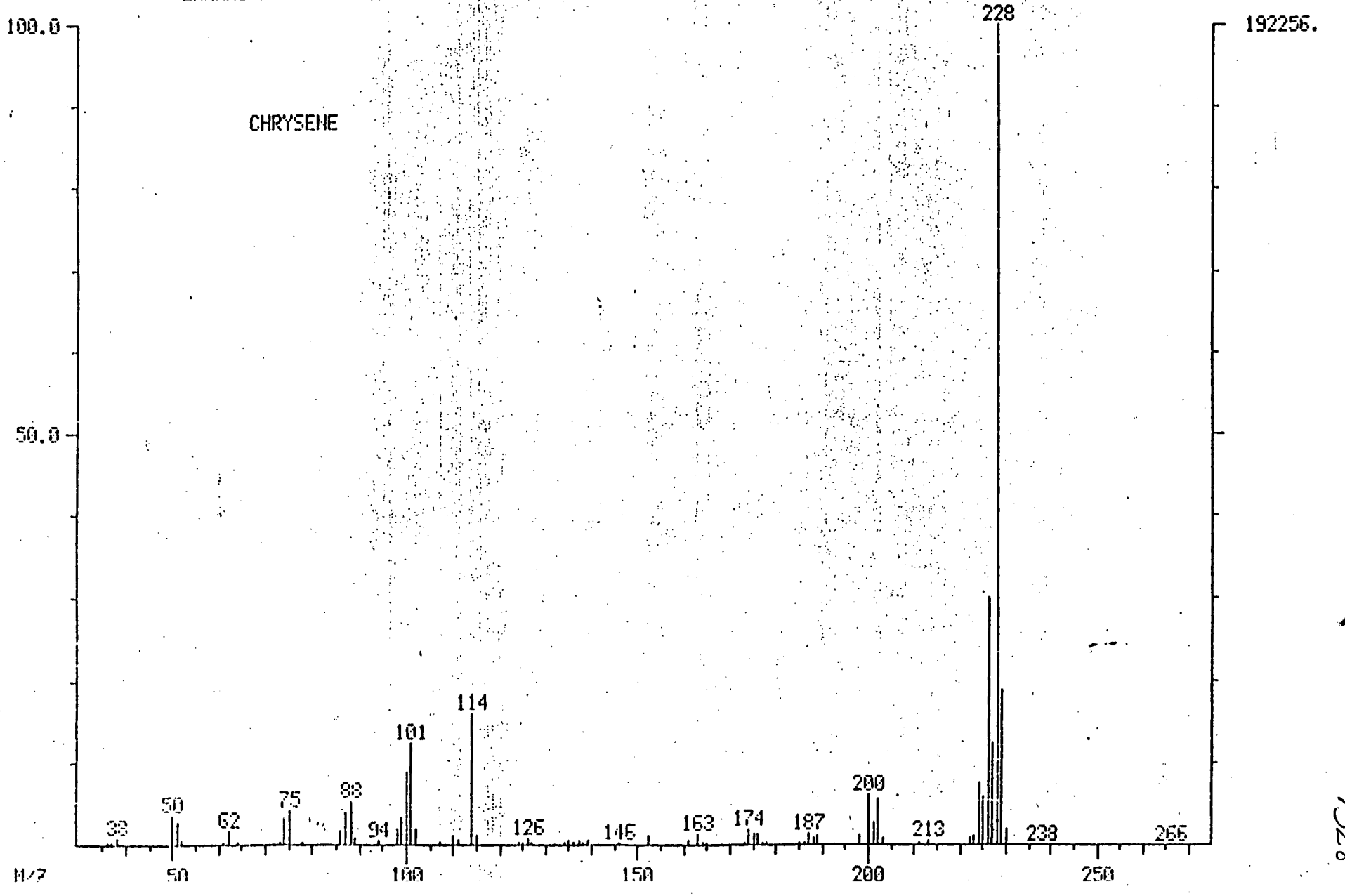


1327

MID MASS SPECTRUM
03/17/87 17:10:00 + 36:28
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 289 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #2271
CALI: HSC50317 #2

BASE M/Z: 228
RIC: 562176.

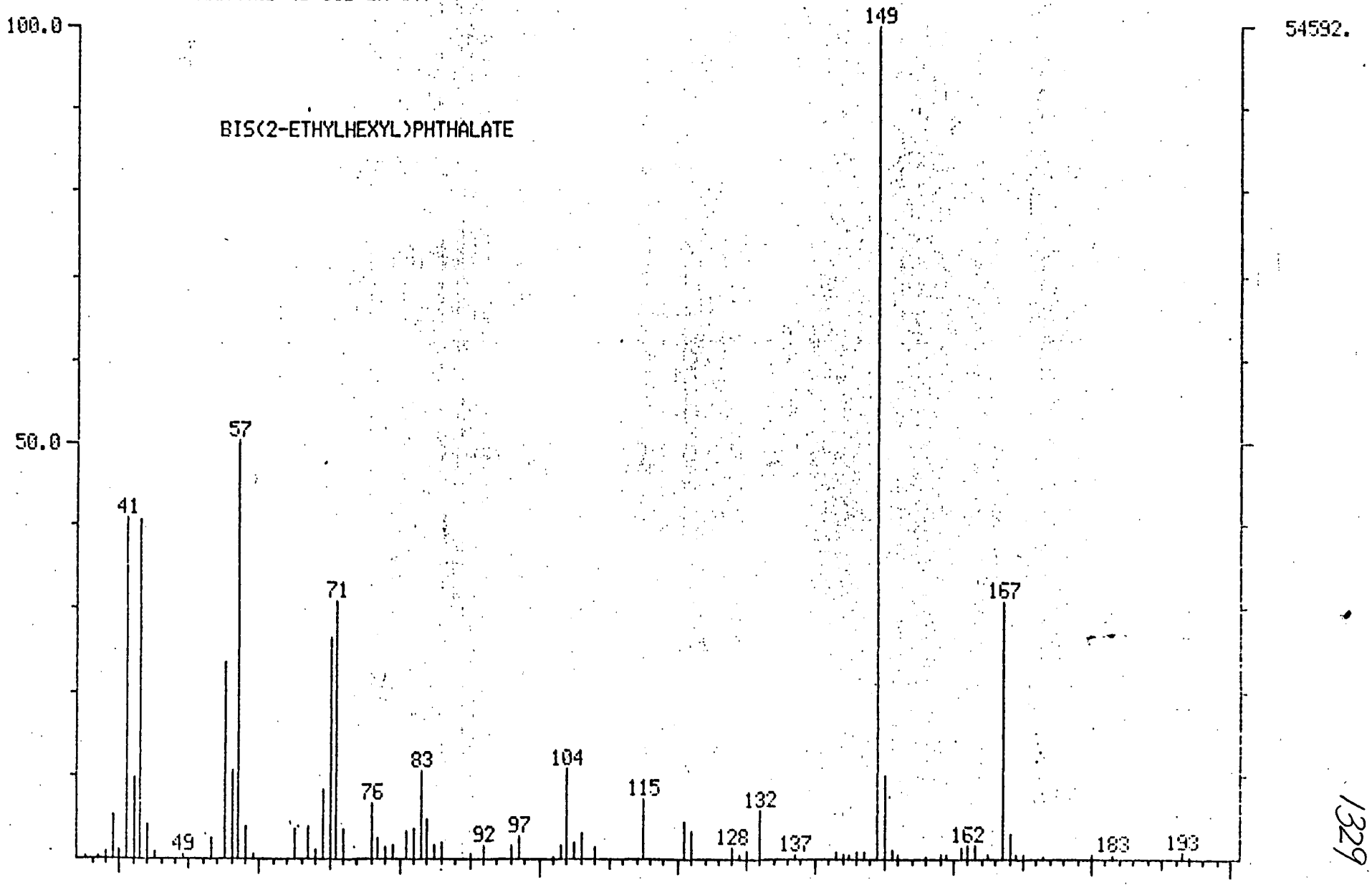


1328

MID MASS SPECTRUM
08/25/87 23:23:00 + 32:16
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 285 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2015
CALI: 14558N5R #2

BASE M/Z: 149
RIC: 300032.

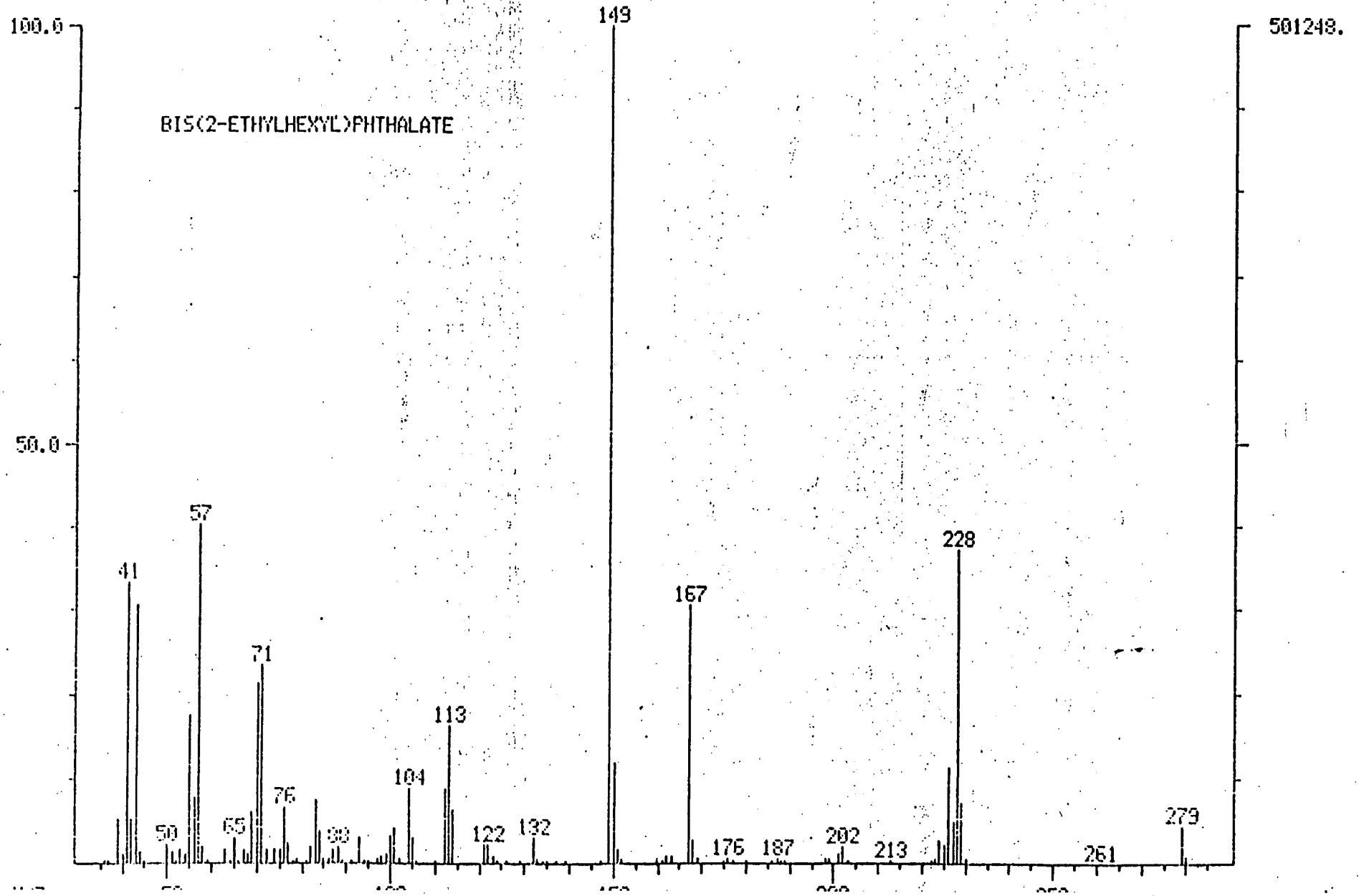


1329

MID MASS SPECTRUM
03/17/87 17:10:00 + 36:26
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #2269
CALI: HSC50317 #2

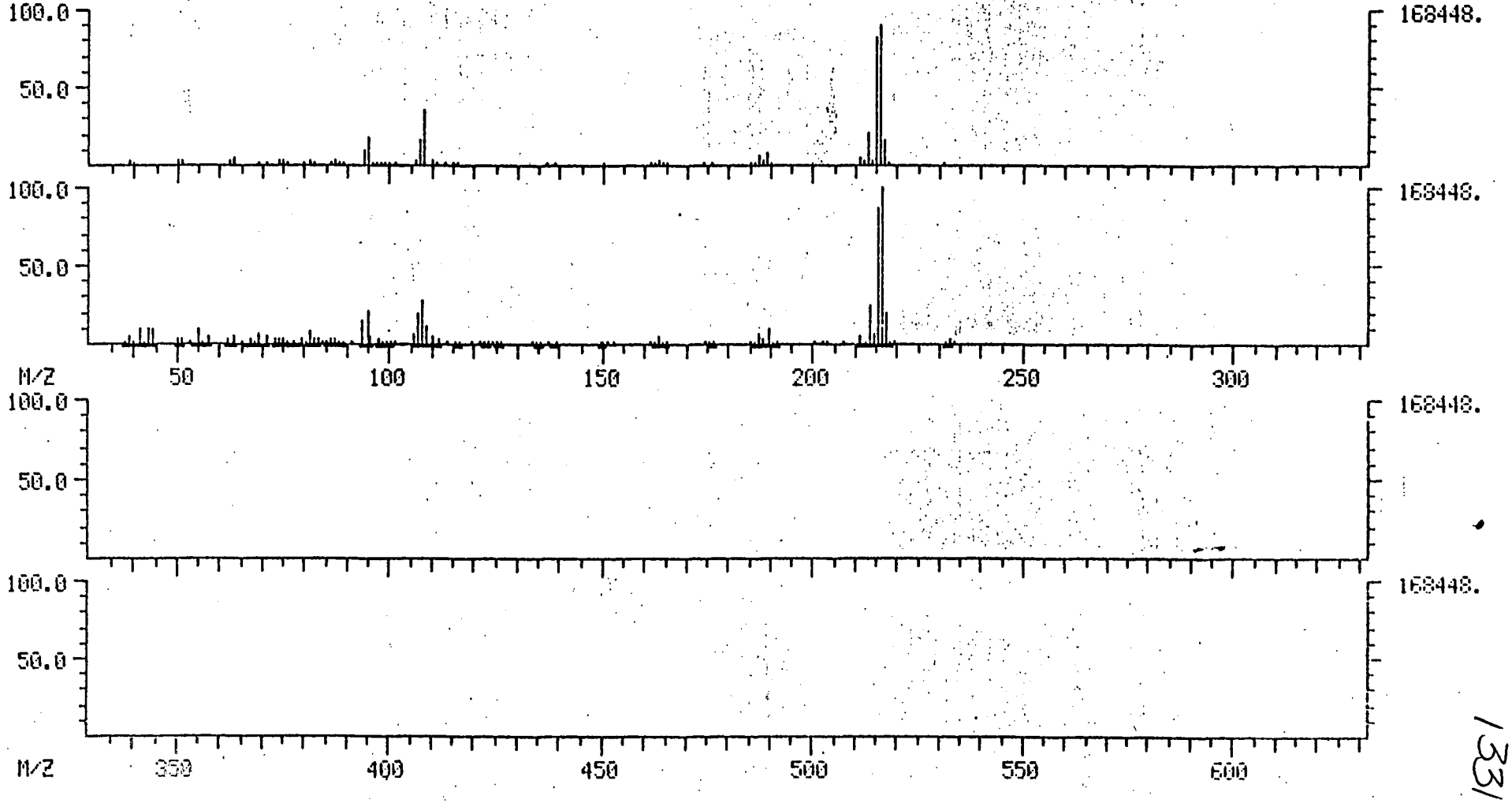
BASE M/Z: 149
RIC: 2727930.



1330

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 29:04
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 259 DEG. C
ENHANCED (S 15B 2N 0T)

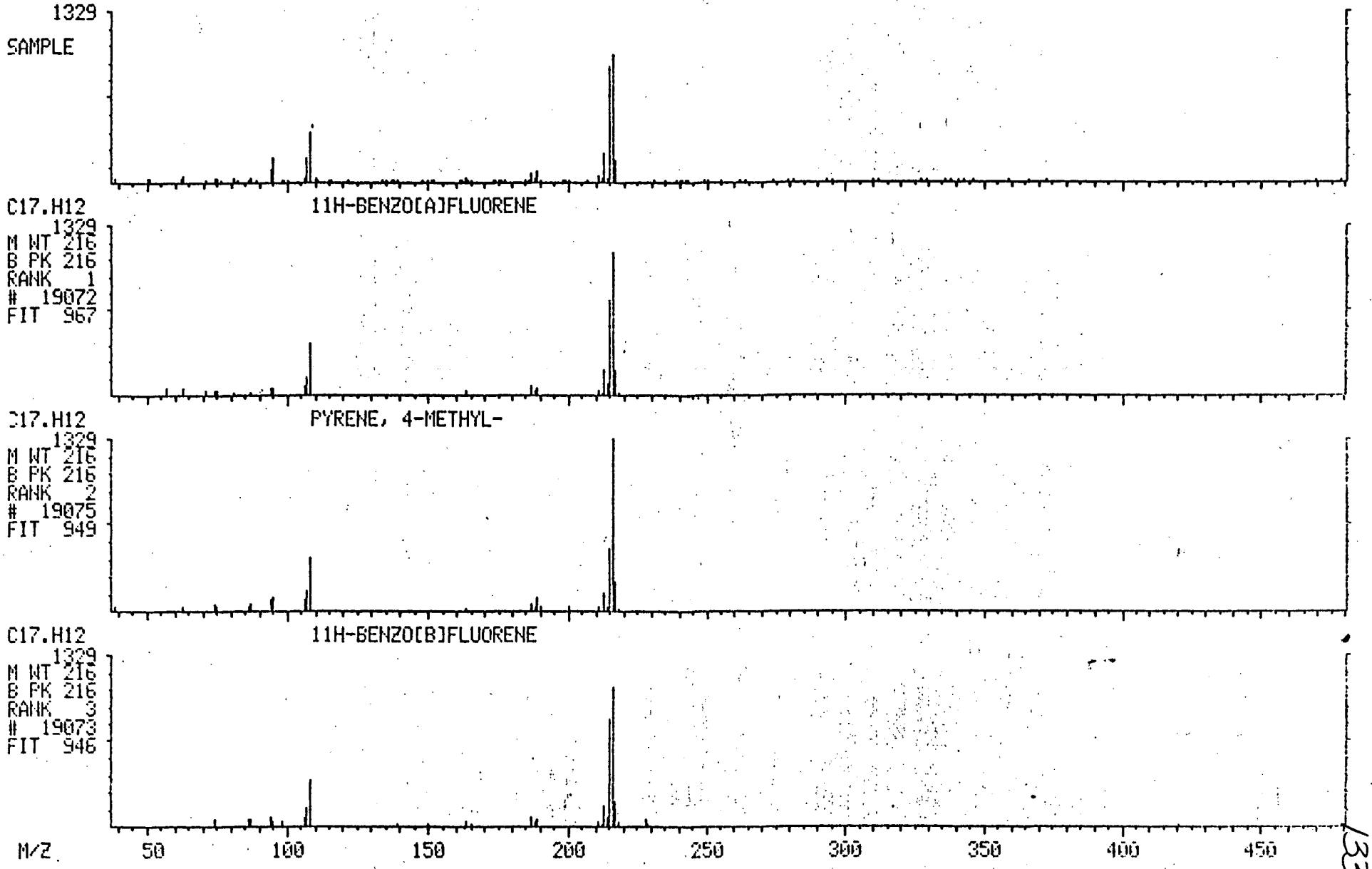
DATA: 14558N5R #1815 BASE M/Z: 216/ 216
CALI: 14558N5R #2 RIC: 702463./ 1042430.



MID LIBRARY SEARCH
08/25/87 23:23:00 + 29:04
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1815
CALI: 14558N5R # 2

BASE M/Z: 216
RIC: 658431.



MID Library Search Data: 14558N5R #1815 Base m/z: 216
08/25/87 23:23:00 + 29:04 Call: 14558N5R # 2 RIC: 658431.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

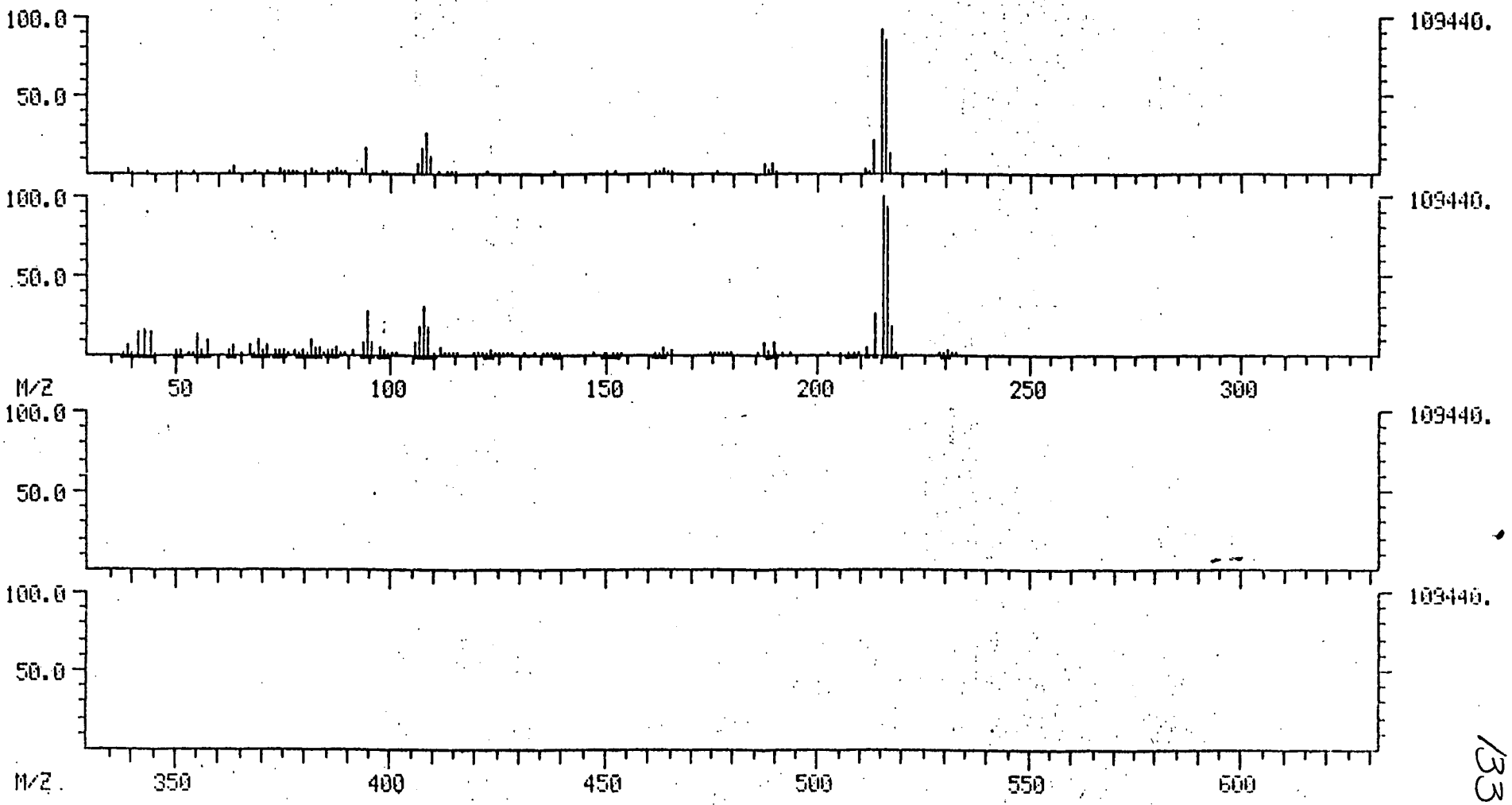
Rank	In.	Name
1	19072	11H-BENZO[A]FLUORENE
2	19075	PYRENE, 4-METHYL-
3	19073	11H-BENZO[B]FLUORENE
4	19076	PYRENE, 2-METHYL-
5	19074	PYRENE, 1-METHYL-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C17. H12	216	216	870	967	881
2	C17. H12	216	216	853	949	859
3	C17. H12	216	216	853	946	884
4	C17. H12	216	216	844	943	860
5	C17. H12	216	216	826	929	871

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

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 29:16
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 261 DEG. C
ENHANCED (S 15B 2N 0T)

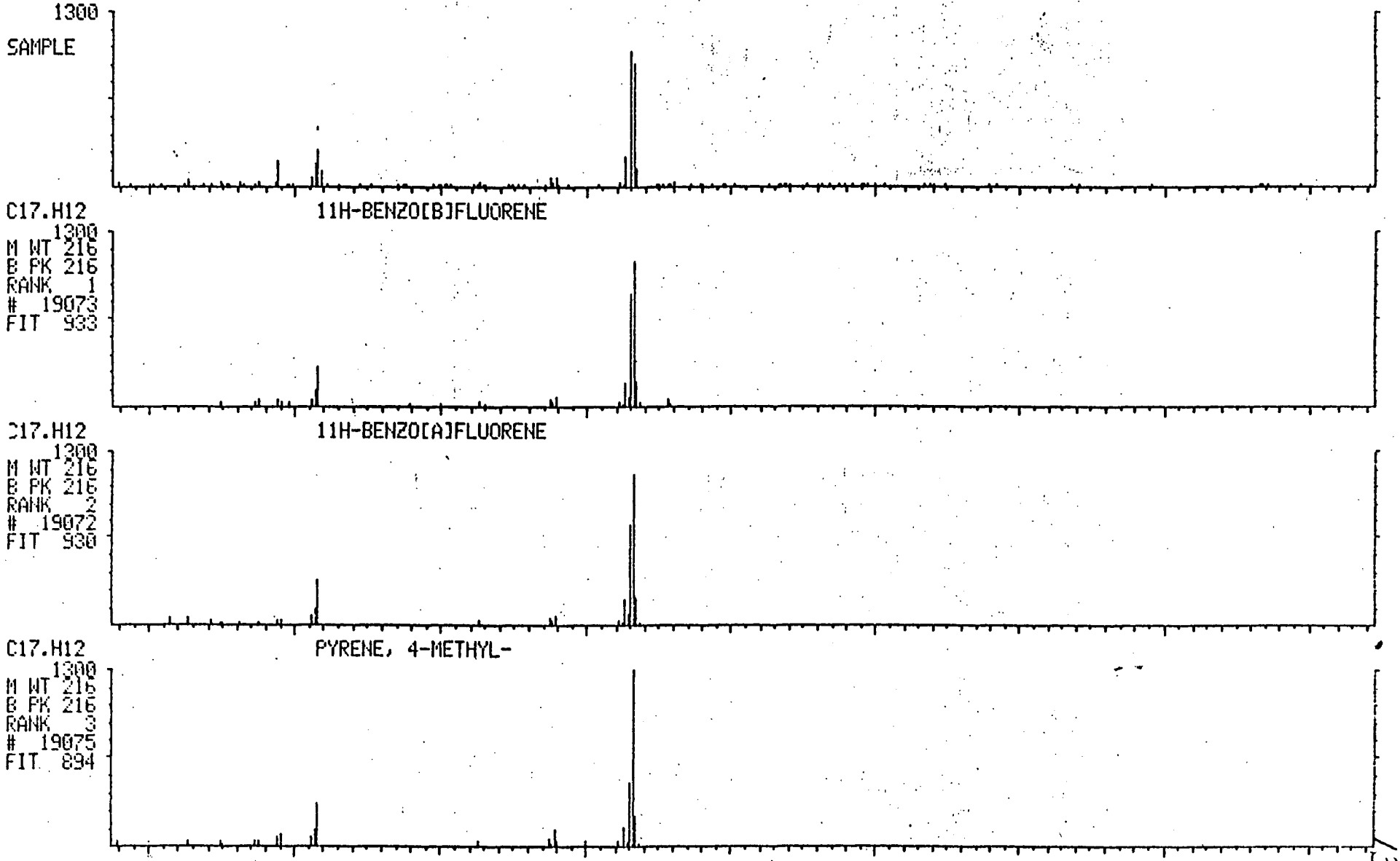
DATA: 14558N5R #1828 BASE M/Z: 215/ 215
CALI: 14558N5R #2 RIC: 434687./ 774143.



MID LIBRARY SEARCH
08/25/87 23:23:00 + 29:16
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1828
CALI: 14558N5R # 2

BASE M/Z: 215
RIC: 415231.



MID Library Search Data: 14558N5R #1828 Base m/z: 215
08/25/87 23:23:00 + 29:16 Cali: 14558N5R # 2 RIC: 415231.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

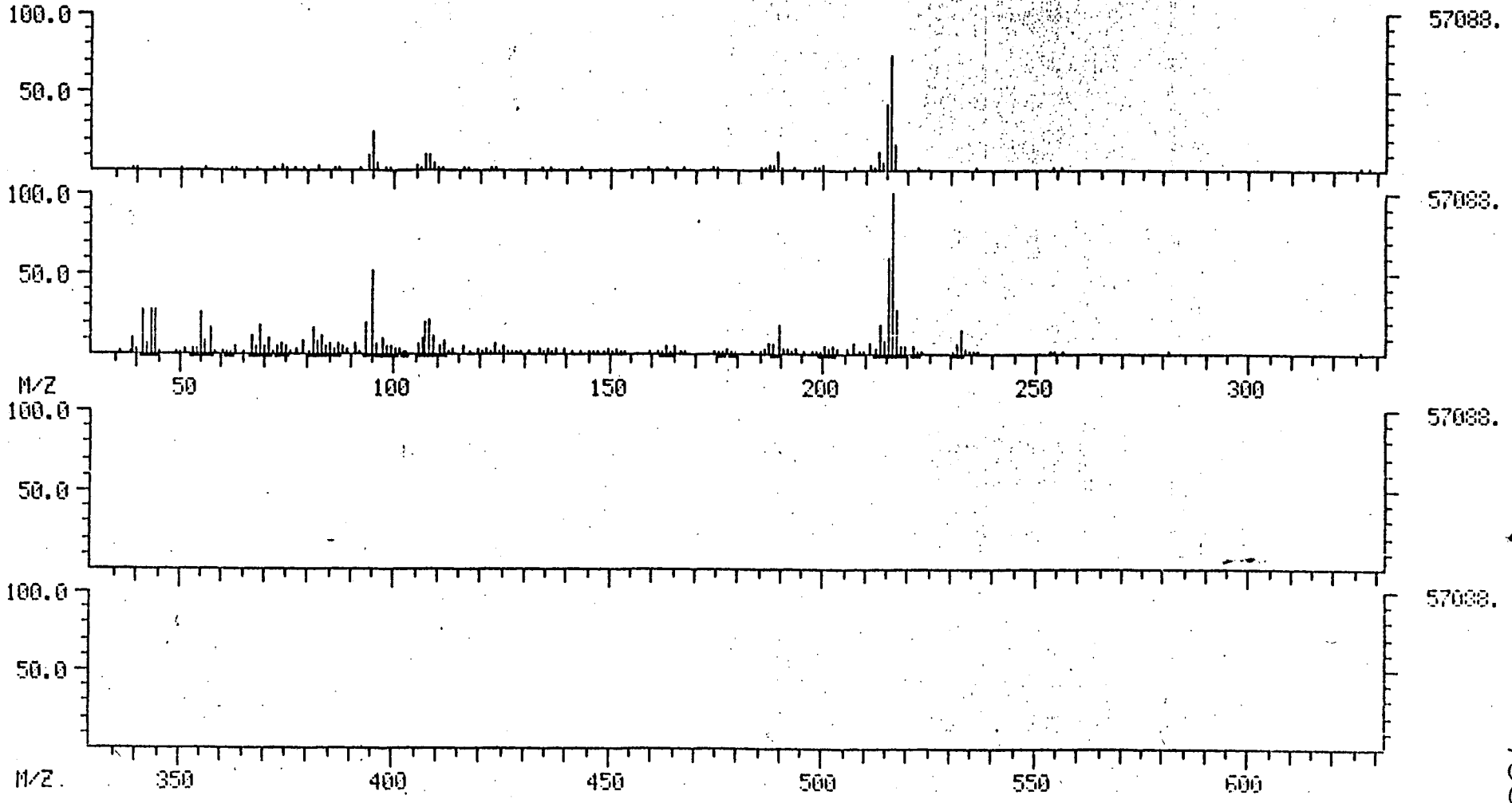
Rank	In.	Name
1	19073	11H-BENZO[B]FLUORENE
2	19072	11H-BENZO[A]FLUORENE
3	19075	PYRENE, 4-METHYL-
4	19076	PYRENE, 2-METHYL-
5	24095	BENZENE, THIOBIS[CHLORO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C17.H12	216	216	823	933	859
2	C17.H12	216	216	815	930	855
3	C17.H12	216	216	781	894	817
4	C17.H12	216	216	767	882	818
5	C12.H8.S.CL2	254	108	92	878	101

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	243-17-4
2	———	———	———	———	238-84-6
3	———	———	———	———	3353-12-6
4	———	———	———	———	3442-78-2
5	———	———	———	———	29349-72-2

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 29:23
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 262 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1835 BASE M/Z: 216/ 216
CALI: 14558N5R #2 RIC: 183807./ 578559.

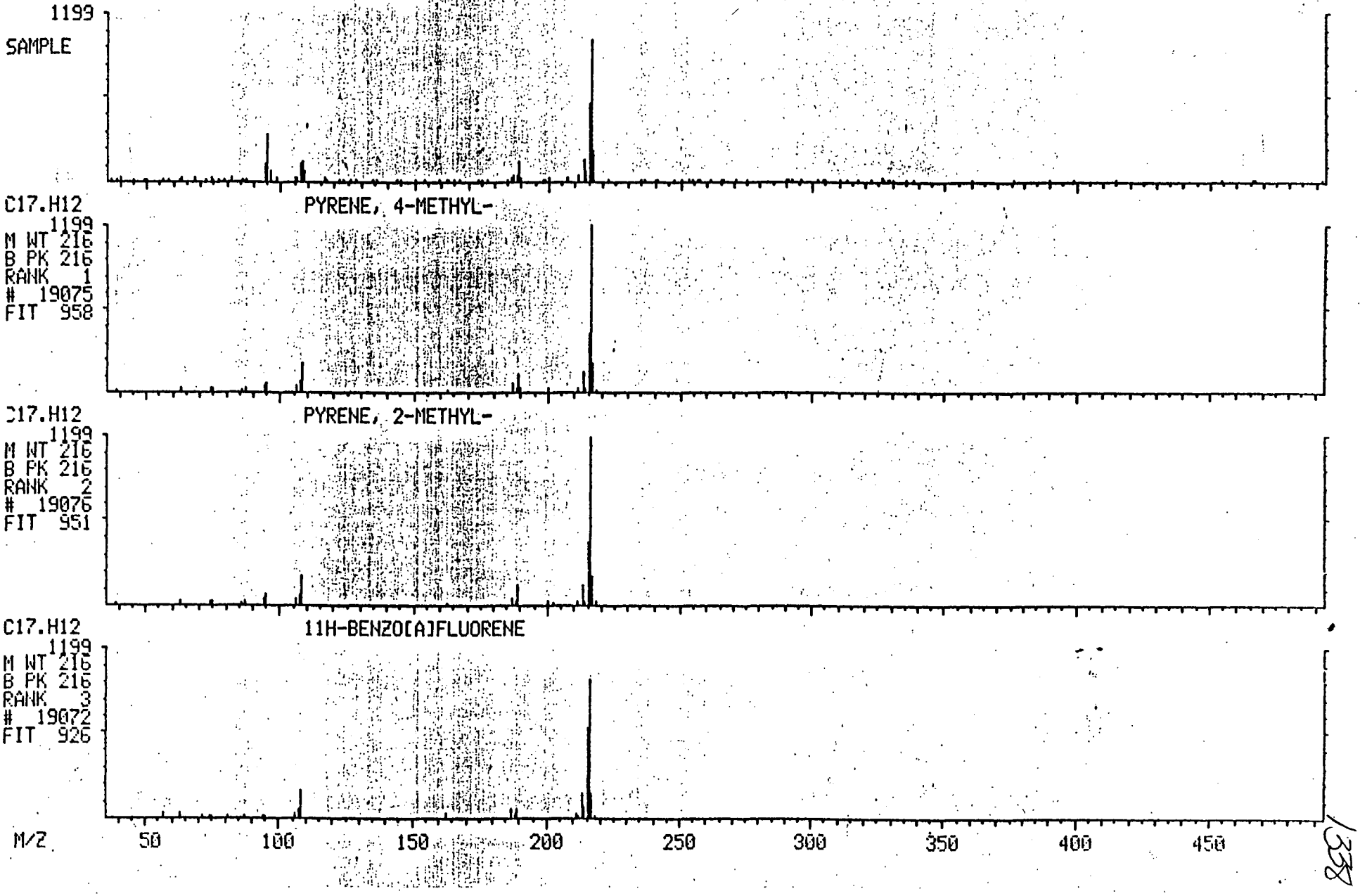


133

MID LIBRARY SEARCH
08/25/87 23:23:00 + 29:23
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1835
CALI: 14558N5R # 2

BASE M/Z: 216
RIC: 174079.



MID Library Search Data: 14558N5R #1835 Base m/z: 216
08/25/87 23:23:00 + 29:23 Cali: 14558N5R # 2 RIC: 174079.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

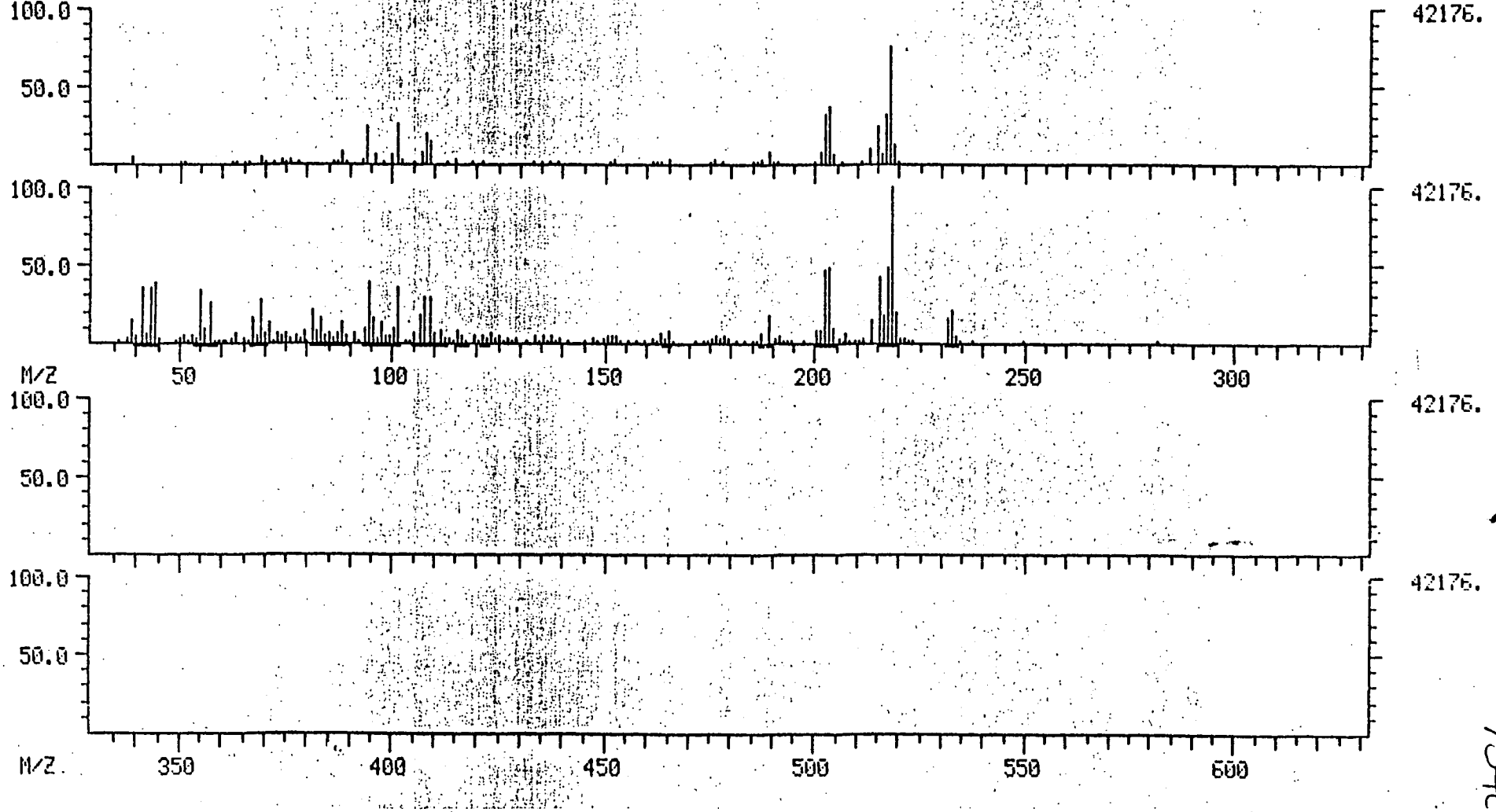
Rank	In.	Name
1	19075	PYRENE, 4-METHYL-
2	19076	PYRENE, 2-METHYL-
3	19072	11H-BENZO[A]FLUORENE
4	19074	PYRENE, 1-METHYL-
5	19073	11H-BENZO[B]FLUORENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C17.H12	216	216	782	958	787
2	C17.H12	216	216	768	951	783
3	C17.H12	216	216	735	926	753
4	C17.H12	216	216	742	921	784
5	C17.H12	216	216	722	903	757

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

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 29:29
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 262 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1841 BASE M/Z: 218/ 218
CALI: 14558N5R #2 RIC: 199423./ 573439.

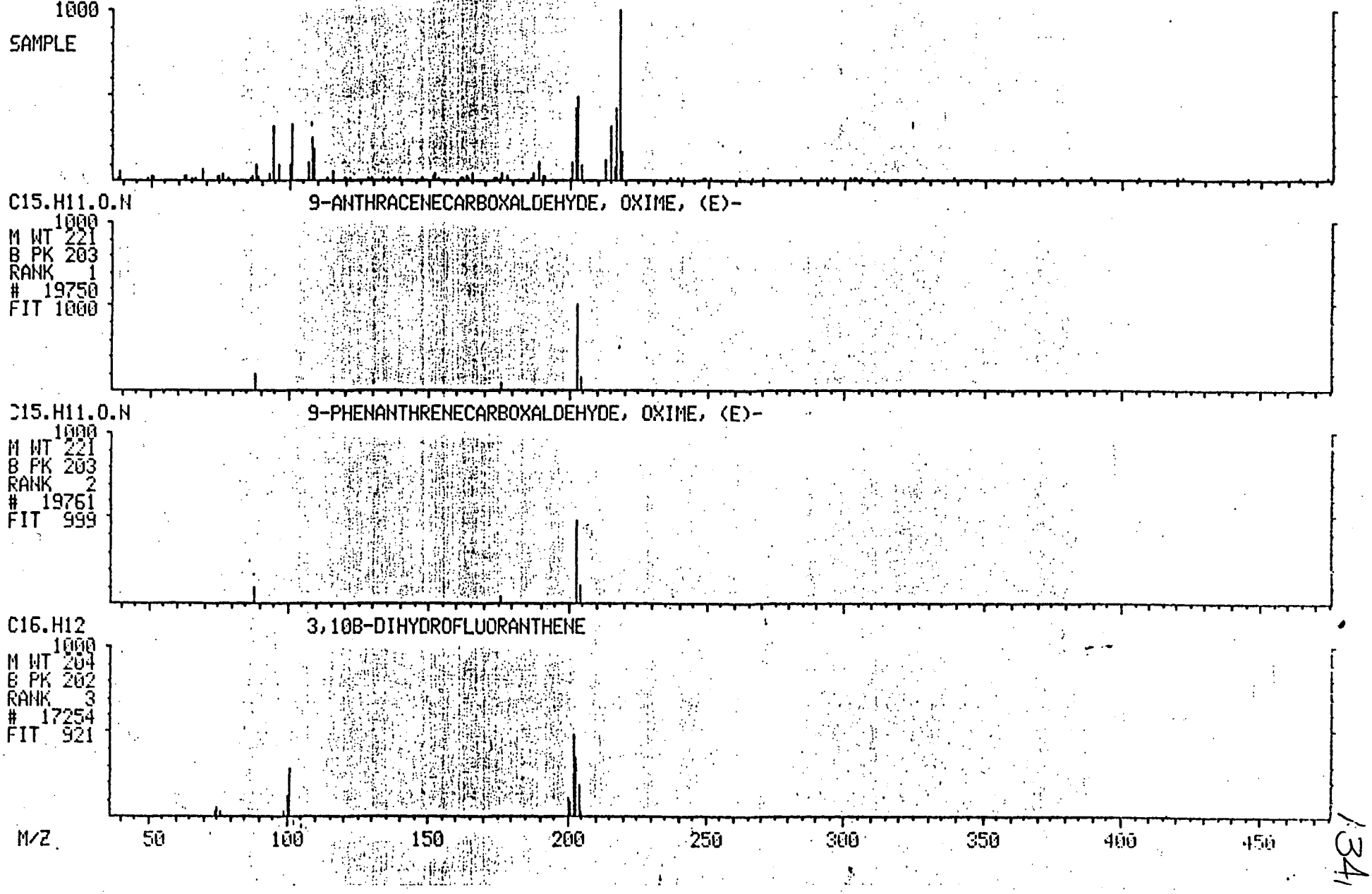


1340

MID LIBRARY SEARCH
08/25/87 23:23:00 + 29:29
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1841
CALI: 14558N5R # 2

BASE M/Z: 218
RIC: 189951.



134

MID Library Search Data: 14558N5R #1841 Base m/z: 218
08/25/87 23:23:00 + 29:29 Cali: 14558N5R # 2 RIC: 189951.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

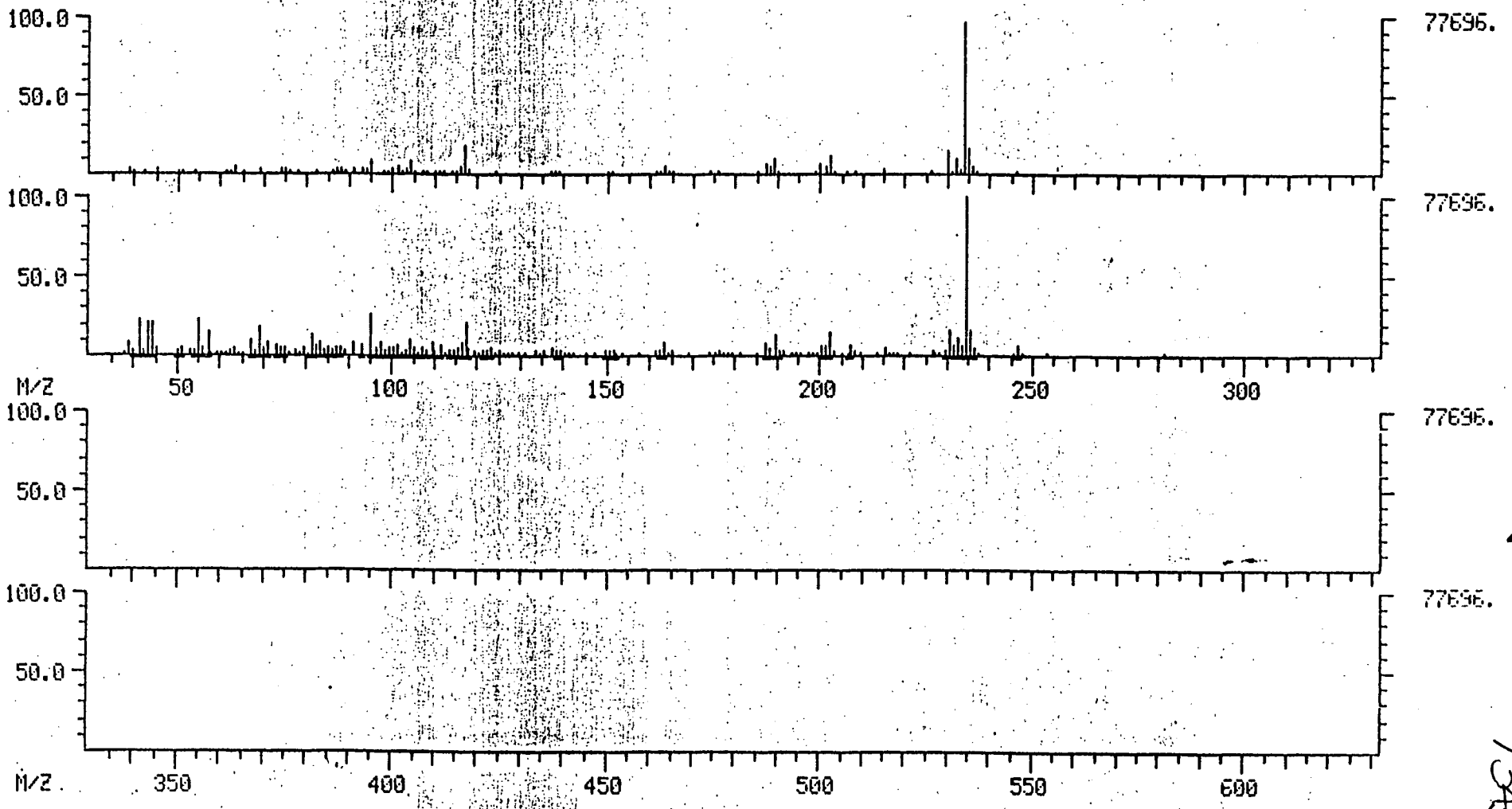
Rank	In.	Name
1	19750	9-ANTHRACENECARBOXALDEHYDE, OXIME, (E)-
2	19761	9-PHENANTHRENECARBOXALDEHYDE, OXIME, (E)-
3	17254	3,10B-DIHYDROFLUORANTHENE
4	19349	1,1'-BIBICYCLO[2.2.2]OCTANE
5	19321	BENZIMIDAZO[2,1-A]ISOQUINOLINE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H11.O.N	221	203	135	1000	135
2	C15.H11.O.N	221	203	135	999	135
3	C16.H12	204	202	260	921	269
4	C16.H26	218	218	245	921	264
5	C15.H10.N2	218	218	335	908	341

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	1942-19-4
2	___	___	___	___	51873-96-2
3	___	___	___	___	37980-07-7
4	___	___	___	___	69576-82-5
5	___	___	___	___	239-44-1

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 31:04
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 275 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1940 BASE M/Z: 234/ 234
CALI: 14558N5R #2 RIC: 294399./ 667647.

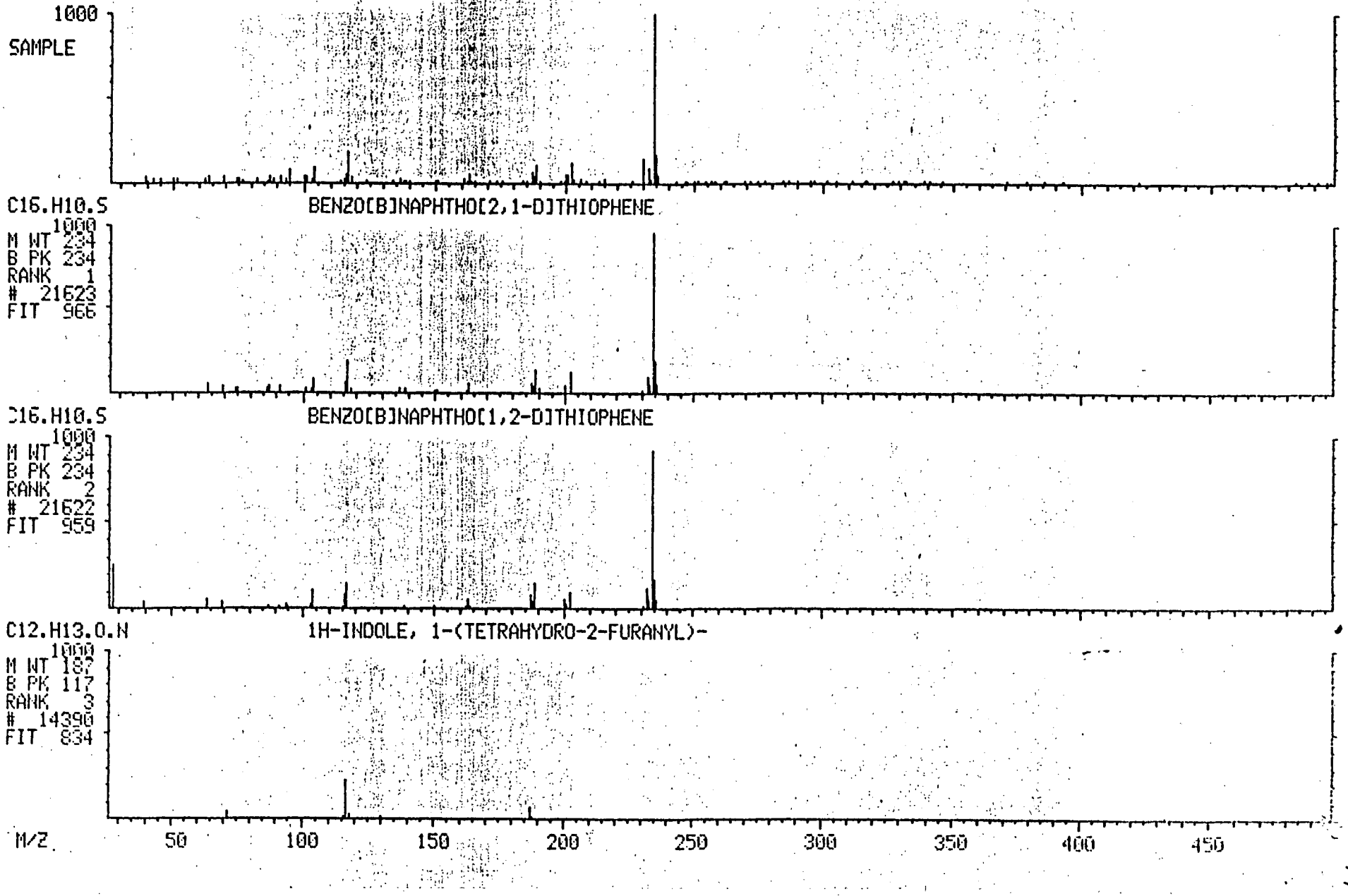


/34

MID LIBRARY SEARCH
08/25/87 23:23:00 + 31:04
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1940
CALI: 14558N5R # 2

BASE M/Z: 234
RIC: 264191.



/344

MID Library Search Data: 14558N5R #1940 Base m/z: 234
08/25/87 23:23:00 + 31:04 Cali: 14558N5R # 2 RIC: 264191.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

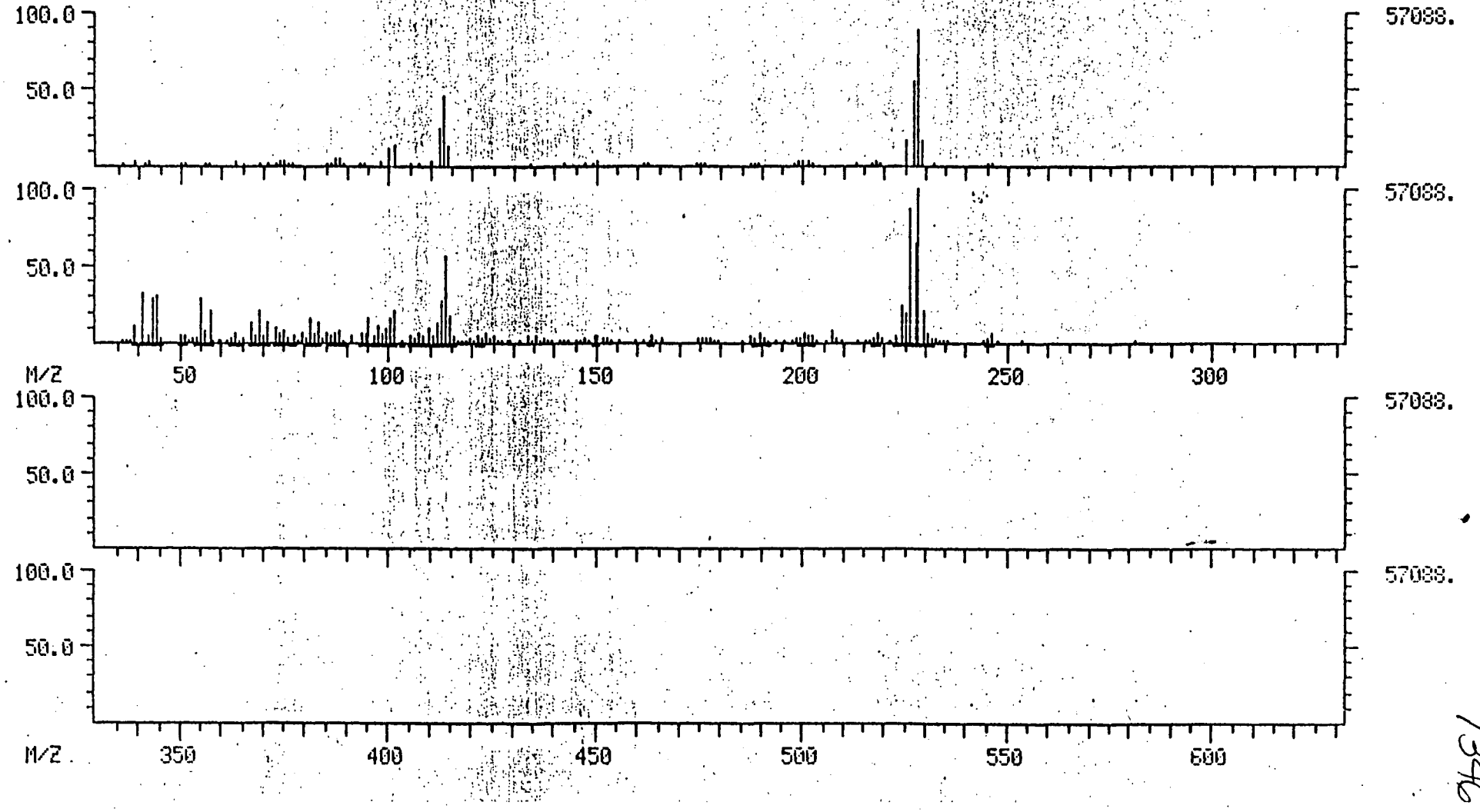
Rank	In.	Name
1	21623	BENZO[B]NAPHTHO[2,1-D]THIOPHENE
2	21622	BENZO[B]NAPHTHO[1,2-D]THIOPHENE
3	14390	1H-INDOLE, 1-(TETRAHYDRO-2-FURANYL)-
4	21165	7H-BENZ[DE]ANTHRACEN-7-ONE
5	21659	BENZENESULFENYL CHLORIDE, PENTAFLUORO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H10.S	234	234	801	966	801
2	C16.H10.S	234	234	749	959	768
3	C12.H13.O.N	187	117	72	834	79
4	C17.H10.O	230	230	197	790	214
5	C6.S.CL.F5	234	234	448	771	509

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	239-35-0
2	———	———	———	———	205-43-6
3	———	———	———	———	50640-00-1
4	———	———	———	———	82-05-3
5	———	———	———	———	27918-31-6

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 31:11
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 276 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1947 BASE M/Z: 228/ 228
CALI: 14558N5R #2 RIC: 228095./ 695295.

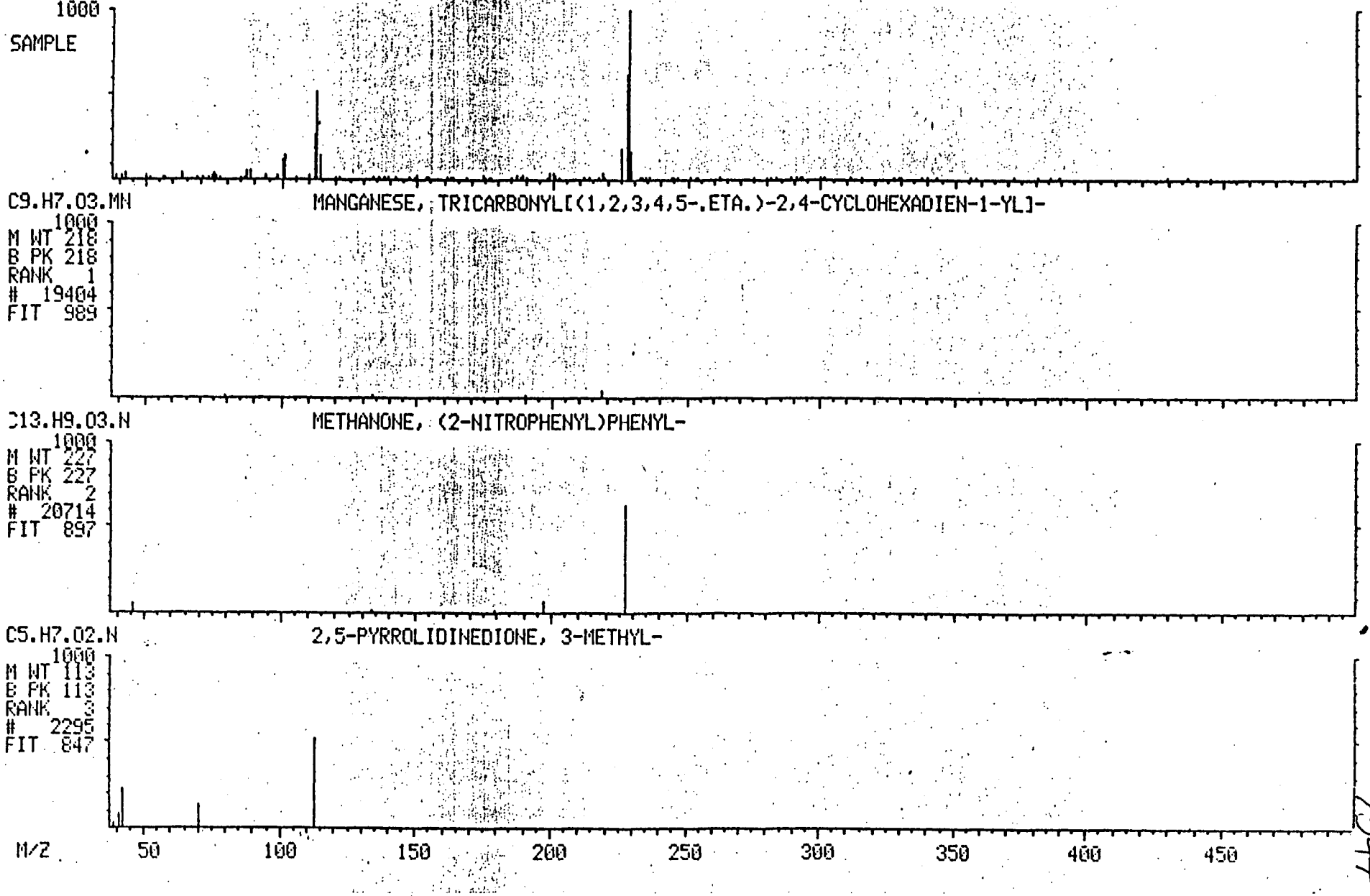


1346

MID LIBRARY SEARCH
08/25/87 23:23:00 + 31:11
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1947
CALI: 14558N5R # 2

BASE M/Z: 228
RIC: 219647.



1347

MID Library Search Data: 14558N5R #1947 Base m/z: 228
08/25/87 23:23:00 + 31:11 Cali: 14558N5R # 2 RIC: 219647.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

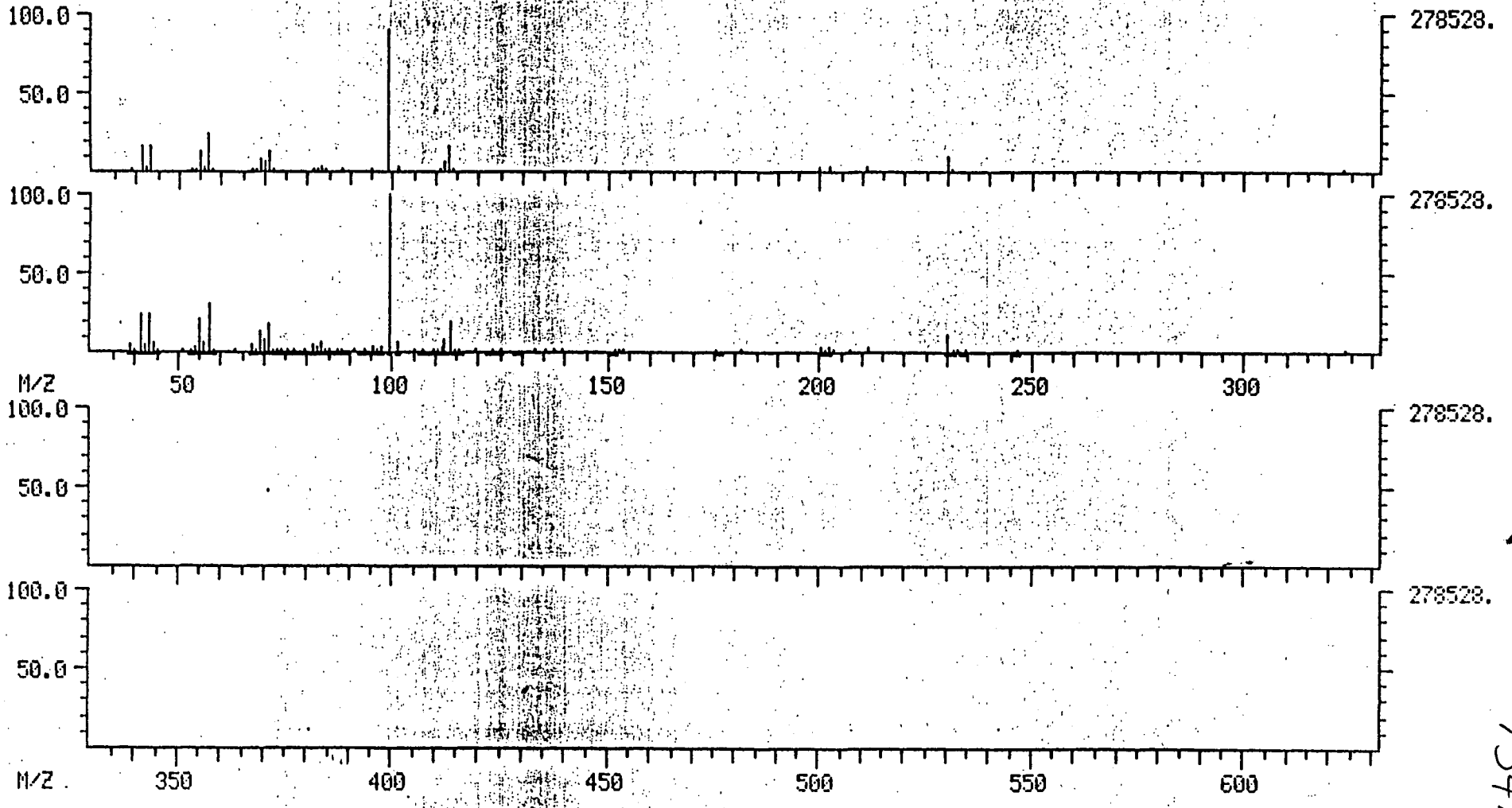
Rank	In.	Name
1	19404	MANGANESE, TRICARBONYL[(1,2,3,4,5-.ETA.)-2,4-CYCLOHEXADIEN-1-YL]-
2	20714	METHANONE, (2-NITROPHENYL)PHENYL-
3	2295	2,5-PYRROLIDINEDIONE, 3-METHYL-
4	16473	1,2,4,5-TETRAZINE, 1,4-DIBUTYLHEXAHYDRO-
5	20921	3,6-PHENANTHRENEDICARBONITRILE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H7.O3.MN	218	218	18	989	18
2	C13.H9.O3.N	227	227	174	897	194
3	C5.H7.O2.N	113	113	71	847	80
4	C10.H24.N4	200	113	139	822	149
5	C16.H8.N2	228	228	559	821	595

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	12108-14-4
2	___	___	___	___	2243-79-0
3	___	___	___	___	5615-90-7
4	___	___	___	___	35035-70-2
5	___	___	___	___	18930-78-4

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 31:22
SAMPLE: 14558N5
CONDS.: 10.34GM5/1.0ML 1:10 DILUTION
GC TEMP: 277 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1959 BASE M/Z: 99/ 99
CALI: 14558N5R #2 RIC: 795647./ 1232890.

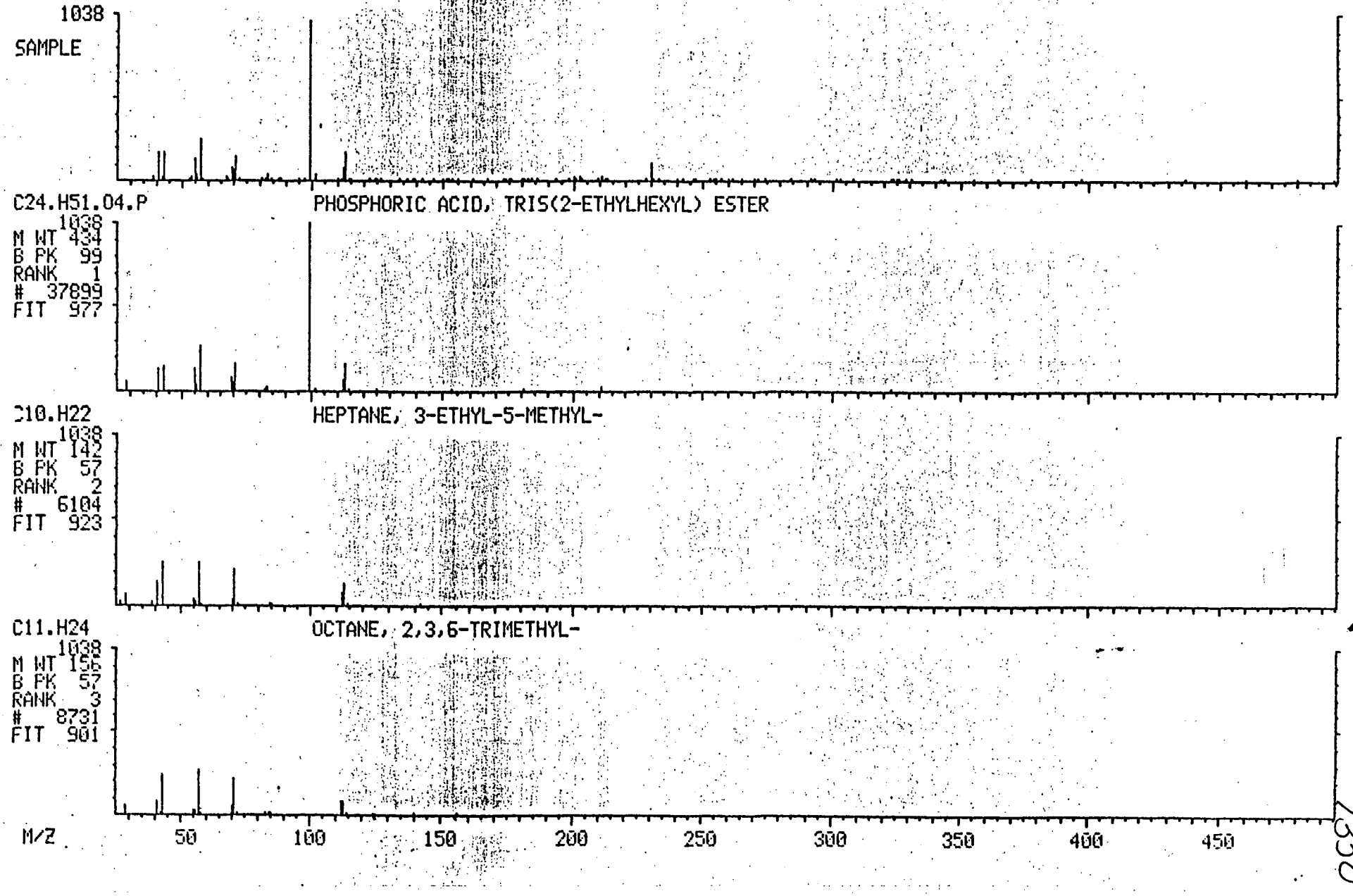


1349

MID LIBRARY SEARCH
08/25/87 23:23:00 + 31:22
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #1959
CALI: 14558N5R # 2

BASE M/Z: 99
RIC: 773119.



1350

MID Library Search Data: 14558N5R #1959 Base m/z: 99
08/25/87 23:23:00 + 31:22 Cali: 14558N5R # 2 RIC: 773119.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N 0T)

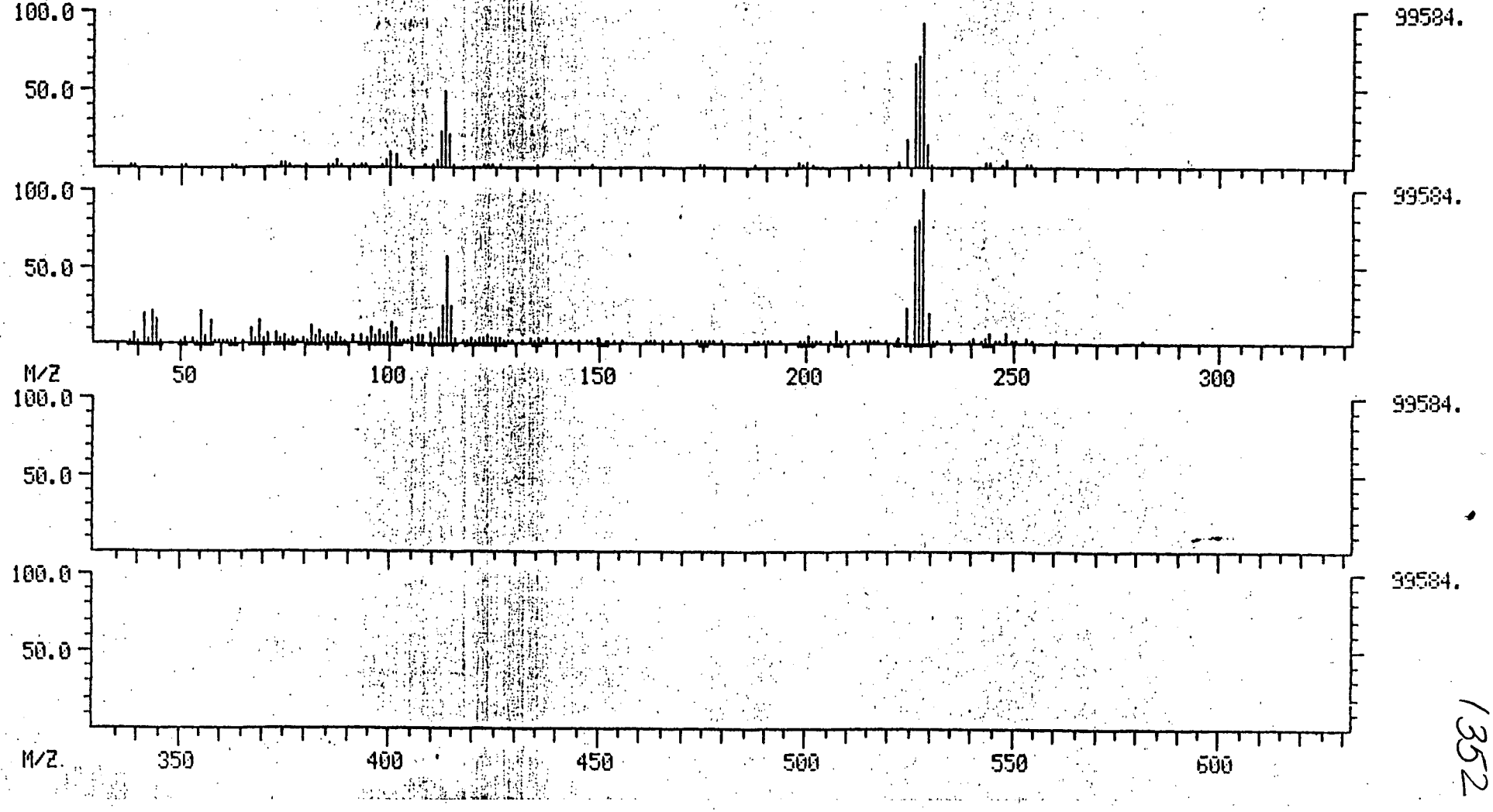
Rank	In.	Name
1	37899	PHOSPHORIC ACID, TRIS(2-ETHYLHEXYL) ESTER
2	6104	HEPTANE, 3-ETHYL-5-METHYL-
3	8731	OCTANE, 2,3,6-TRIMETHYL-
4	6089	HEPTANE, 5-ETHYL-2-METHYL-
5	3759	1-HEXENE, 3,5,5-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C24.H51.O4.P	434	99	715	977	721
2	C10.H22	142	57	285	923	297
3	C11.H24	156	57	289	901	299
4	C10.H22	142	43	288	891	304
5	C9.H18	126	57	209	884	224

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	78-42-2
2	___	___	___	___	52896-90-9
3	___	___	___	___	62016-33-5
4	___	___	___	___	13475-78-0
5	___	___	___	___	4316-65-8

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 32:13
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 284 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2012 BASE M/Z: 228/ 228
CALI: 14558N5R #2 RIC: 486399./ 954367.

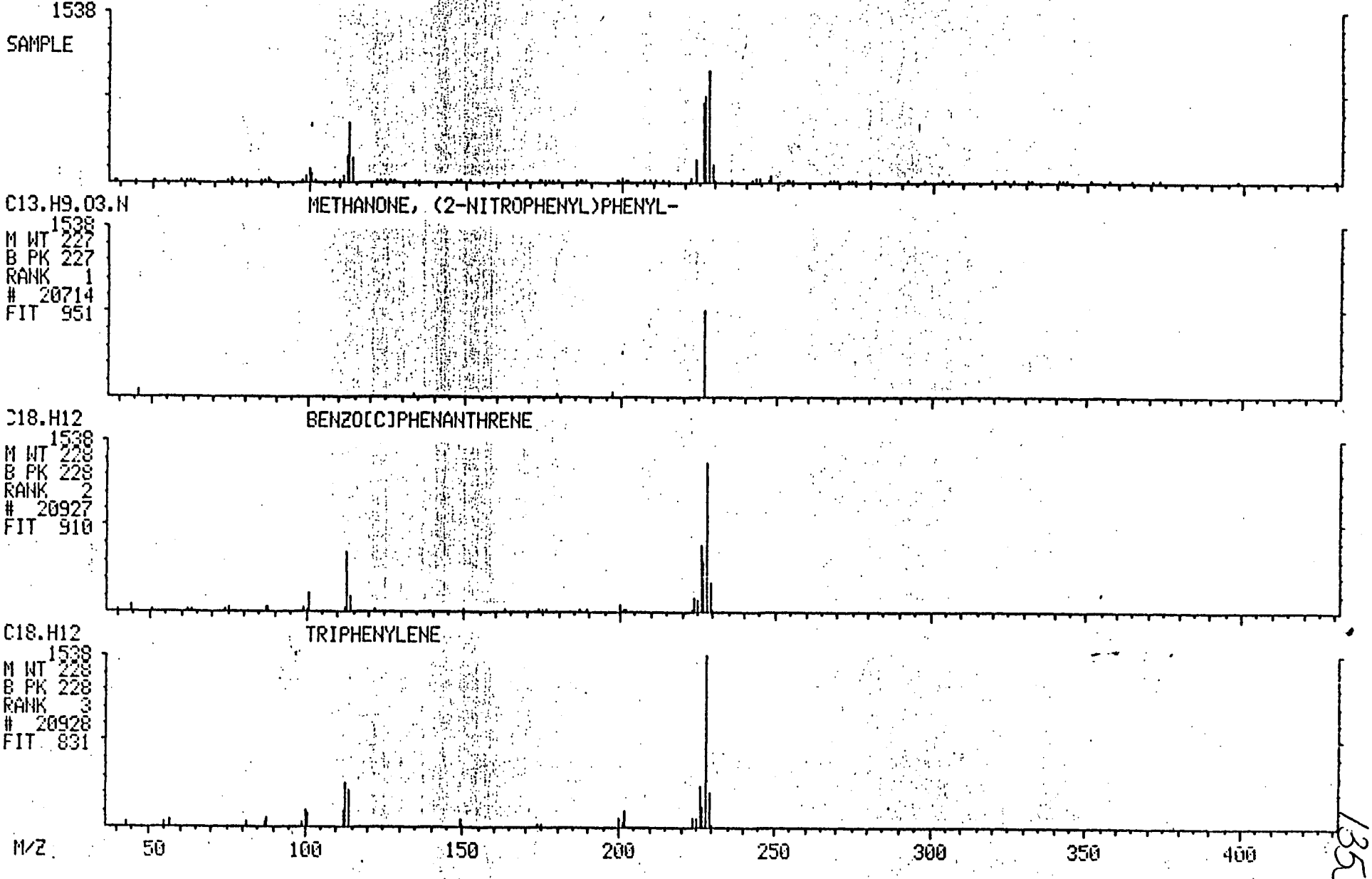


1352

MID LIBRARY SEARCH
08/25/87 23:23:00 + 32:13
SAMPLE: 14558N5
CONDS.: 10.34GM5/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2012
CALI: 14558N5R # 2

BASE M/Z: 228
RIC: 472063.

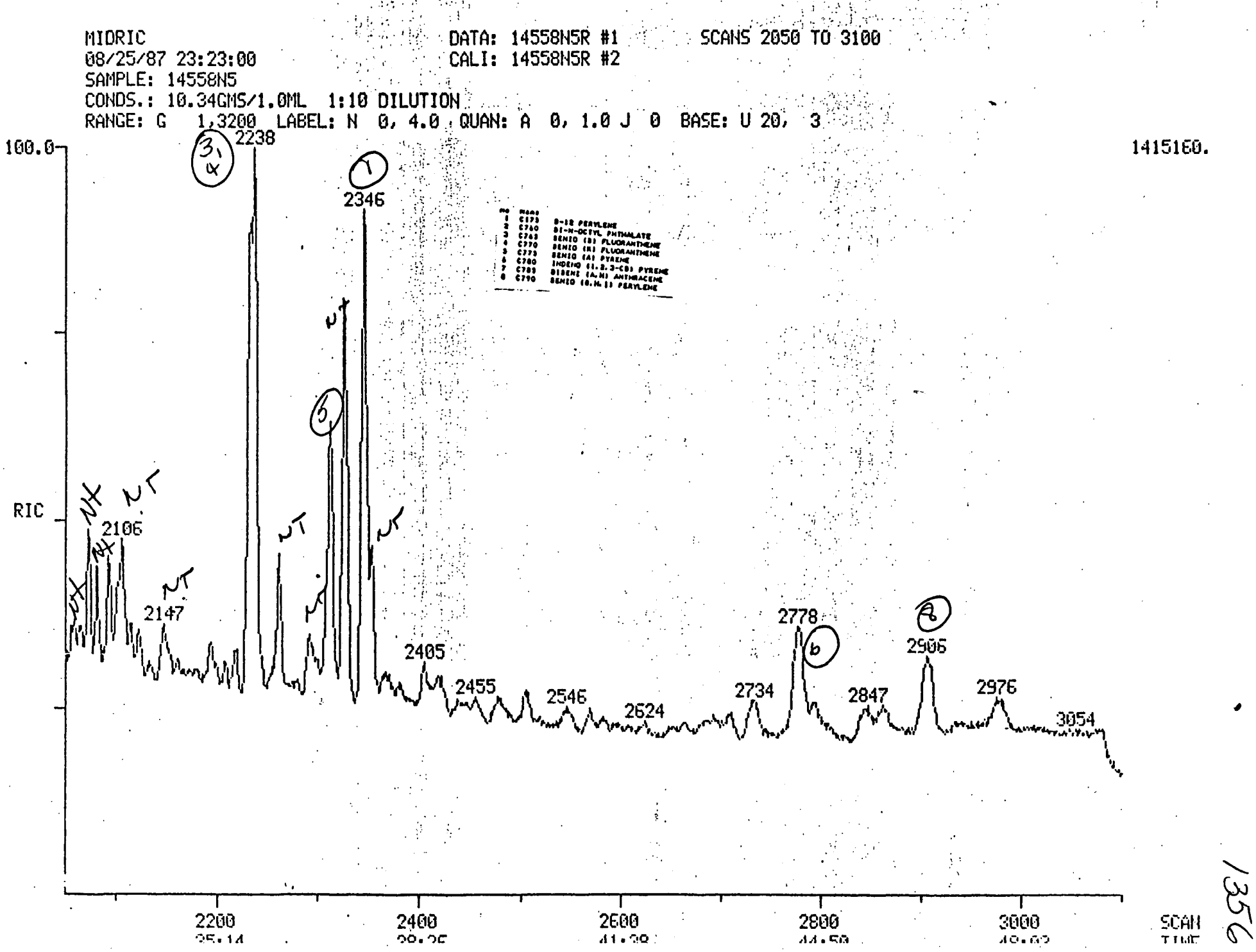


MID Library Search Data: 14558N5R #2012 Base m/z: 228
08/25/87 23:23:00 + 32:13 Cali: 14558N5R # 2 RIC: 472063.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	20714	METHANONE, (2-NITROPHENYL)PHENYL-
2	20927	BENZO[C]PHENANTHRENE
3	20928	TRIPHENYLENE
4	20929	CHRYSENE
5	20926	NAPHTHACENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H9.O3.N	227	227	176	951	185
2	C18.H12	228	228	789	910	827
3	C18.H12	228	228	708	831	743
4	C18.H12	228	228	692	804	715
5	C18.H12	228	228	685	787	699

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	2243-79-0
2	———	———	———	———	195-19-7
3	———	———	———	———	217-59-4
4	———	———	———	———	218-01-9
5	———	———	———	———	92-24-0


MIDRIC
08/25/87 23:23:00
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558N5R #1
CALI: 14558N5R #2
SCANS 2050 TO 3100
100.0
1415160.
RIC
2238
2346
2106
2147
2405
2455
2546
2624
2734
2778
2847
2905
2976
3054
NT
2200
2400
2600
2800
3000
SCAN
TIME

1356

Quantitation Report -- File: 14558N5R

Data: 14558N5R.TI
08/25/87 23:23:00
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558N5R

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

No	Name		
1	CI75	D-12 PERYLENE	(INT. STD.)
2	C760	DI-N-OCTYL PHTHALATE	*
3	C765	BENZO (B) FLUORANTHENE	
4	C770	BENZO (K) FLUORANTHENE	
5	C775	BENZO (A) PYRENE	*
6	C780	INDENO (1,2,3-CD) PYRENE	
7	C785	DIBENZ (A,H) ANTHRACENE	
8	C790	BENZO (G,H,I) PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	264	2346	37:34	1	1.000	A BB	1604490.	40.000	NG	21.84	
2	149	2153	34:29	1	0.918	A*VB	~~7557.~~	~~0.044~~	~~NG~~	0.02	NO QQ
3	252	2238	35:50	1	0.954	A BB	2896920.	40.326	NG	22.02	YES QQ
4	252	2238	35:50	1	0.954	A BB	~~2874920.~~	~~40.898~~	~~NG~~	22.33	NO QQ
5	252	2326	37:15	1	0.991	A BV	1387020.	23.848	NG	13.02	YES QQ
6	276	2779	44:30	1	1.185	A BB	669908.	17.990	NG	9.82	YES QQ
7	278	2792	44:43	1	1.190	A VV	~~150236.~~	~~4.605~~	~~NG~~	~~2.51~~	NO QQ
8	276	2906	46:32	1	1.239	A BB	516584.	15.443	NG	8.43	YES QQ

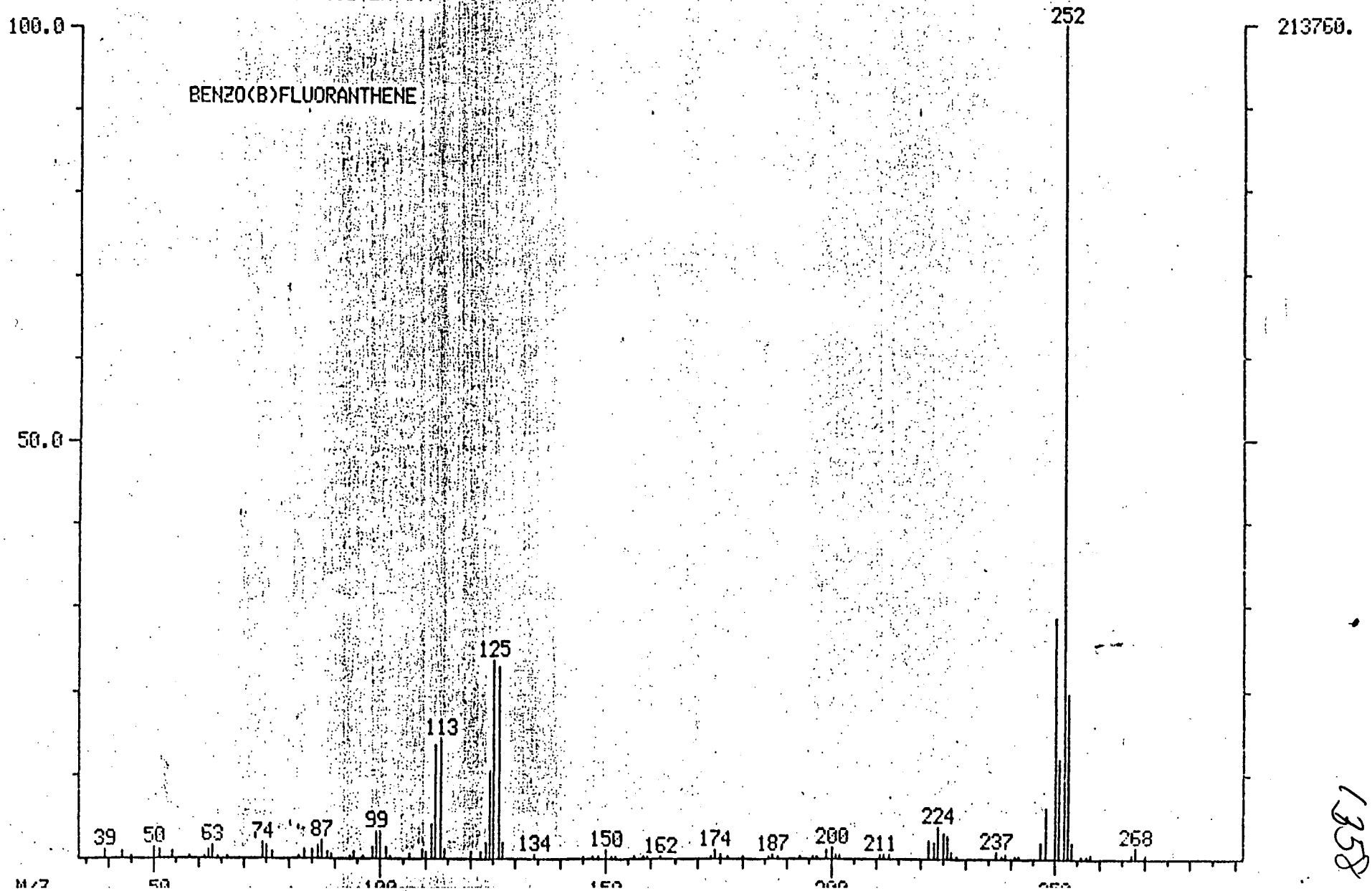
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	37:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	34:28	1.00	0.916	1.00	0.04	50.00	0.004	4.264	0.00
3	35:48	1.00	0.951	1.00	40.33	50.00	1.444	1.791	0.81
4	35:55	1.00	0.955	1.00	40.90	50.00	1.444	1.766	0.82
5	37:19	1.00	0.992	1.00	23.85	50.00	0.692	1.450	0.48
6	44:31	1.00	1.183	1.00	17.99	50.00	0.334	0.928	0.36
7	44:50	1.00	1.192	1.00	4.60	50.00	0.075	0.813	0.09
8	46:37	1.00	1.239	1.00	15.44	50.00	0.258	0.834	0.31

MID MASS SPECTRUM
08/25/87 23:23:00 + 35:50
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 289 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2238
CALI: 14558N5R #2

BASE M/Z: 252
RIC: 718848.

BENZO(B)FLUORANTHENE

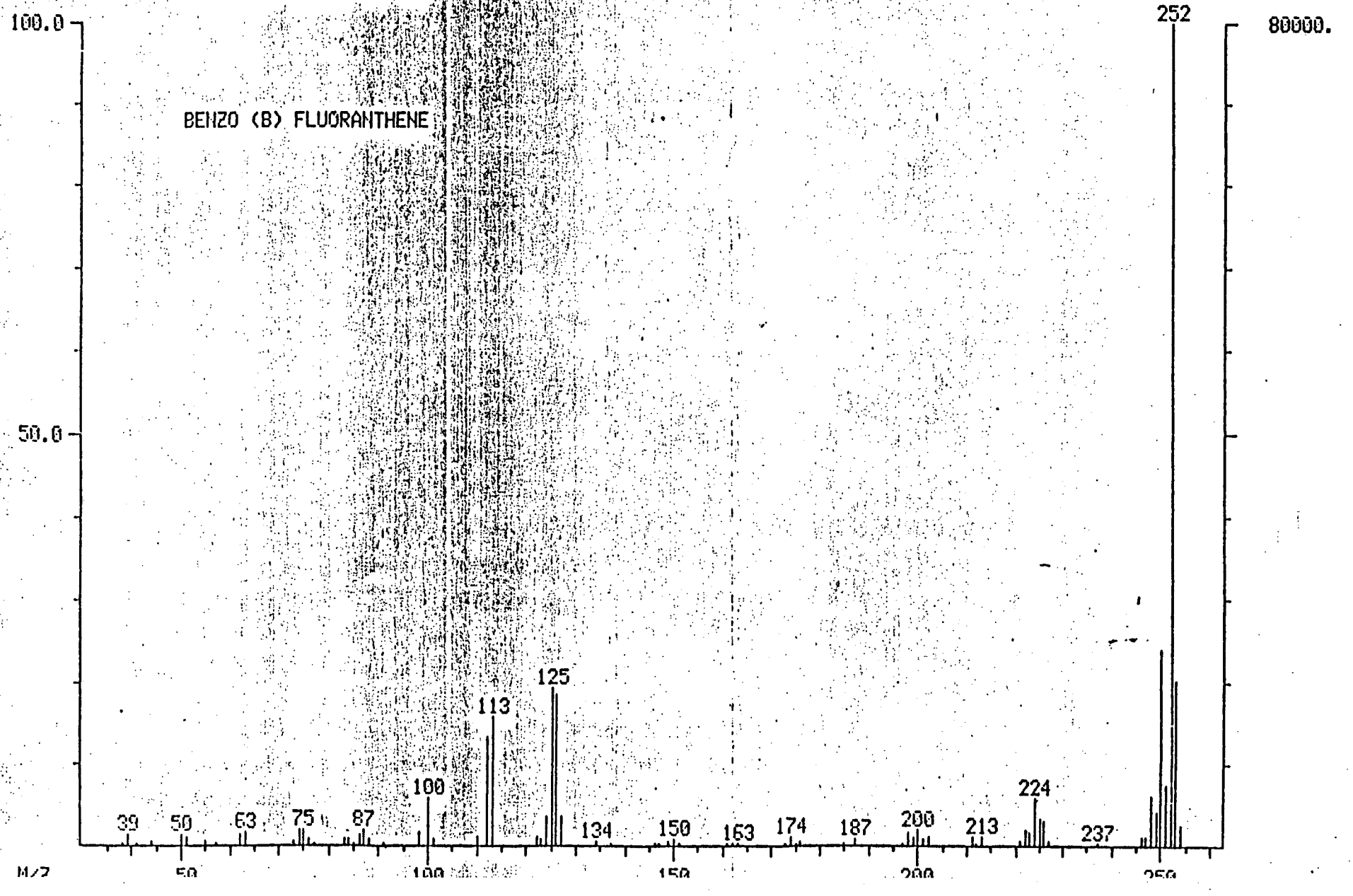


1458

MID MASS SPECTRUM
03/17/87 17:10:00 + 43:15
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #2694
CALI: HSC50317 #2

BASE M/Z: 252
RIC: 247552.

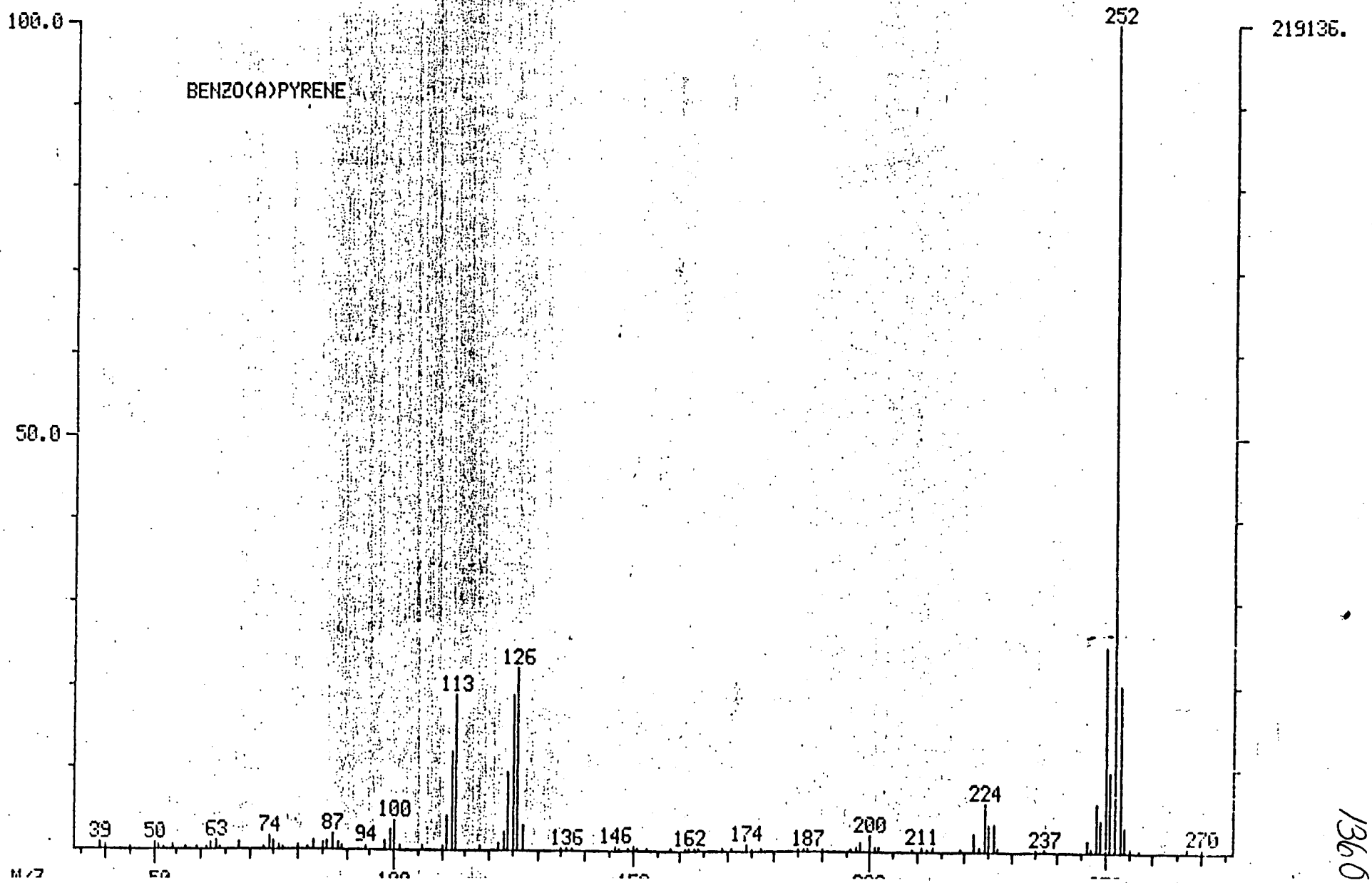


1359

MID MASS SPECTRUM
08/25/87 23:23:00 + 37:15
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2326
CALI: 14558N5R #2

BASE M/Z: 252
RIC: 704512.

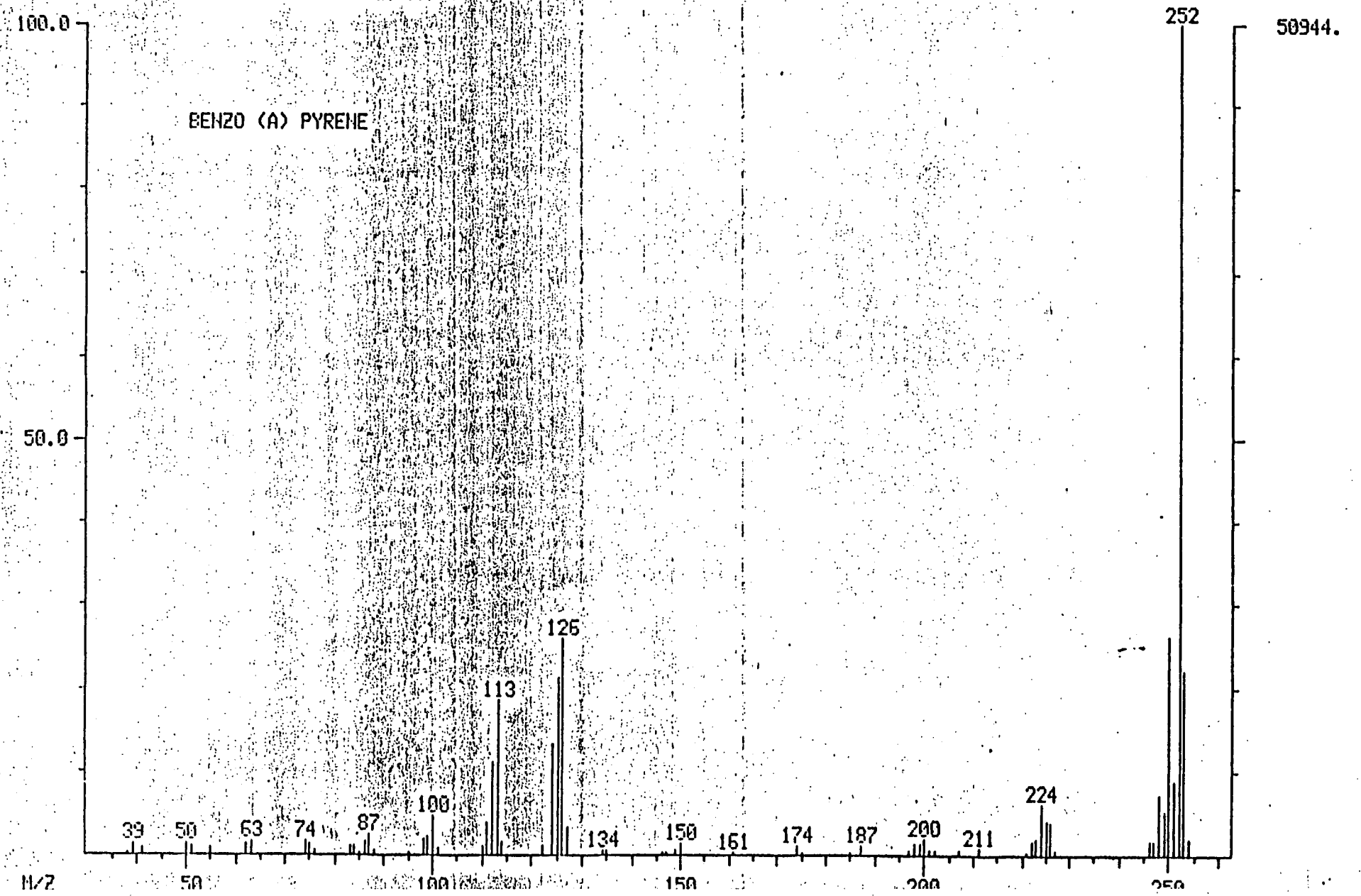


1360

MID MASS SPECTRUM
03/17/87 17:10:00 + 46:07
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #2872
CALI: HSC50317 #2

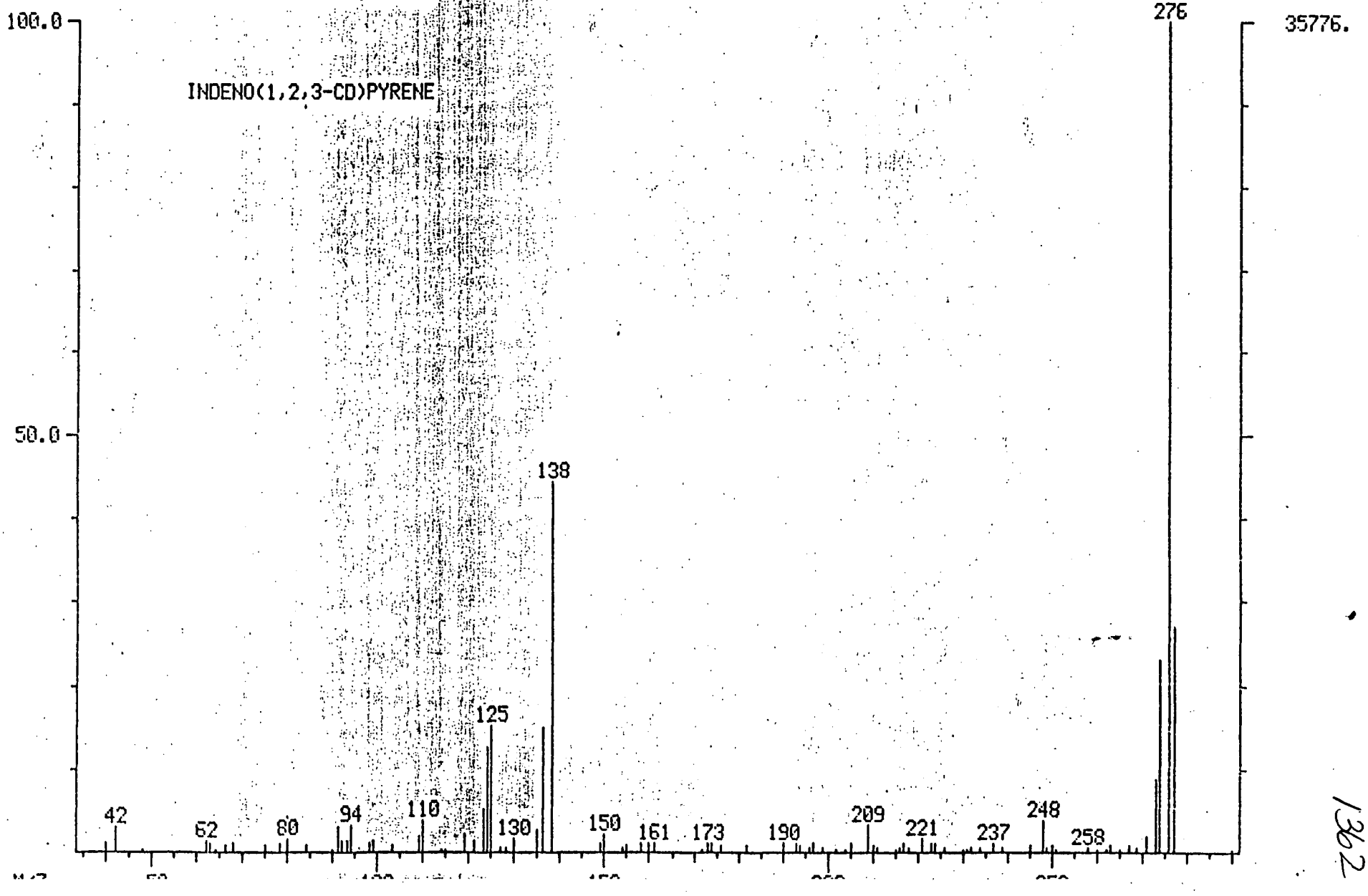
BASE M/Z: 252
RIC: 173568.



MID MASS SPECTRUM
08/25/87 23:23:00 + 44:30
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2779
CALI: 14558N5R #2

BASE M/Z: 276
RIC: 122880.

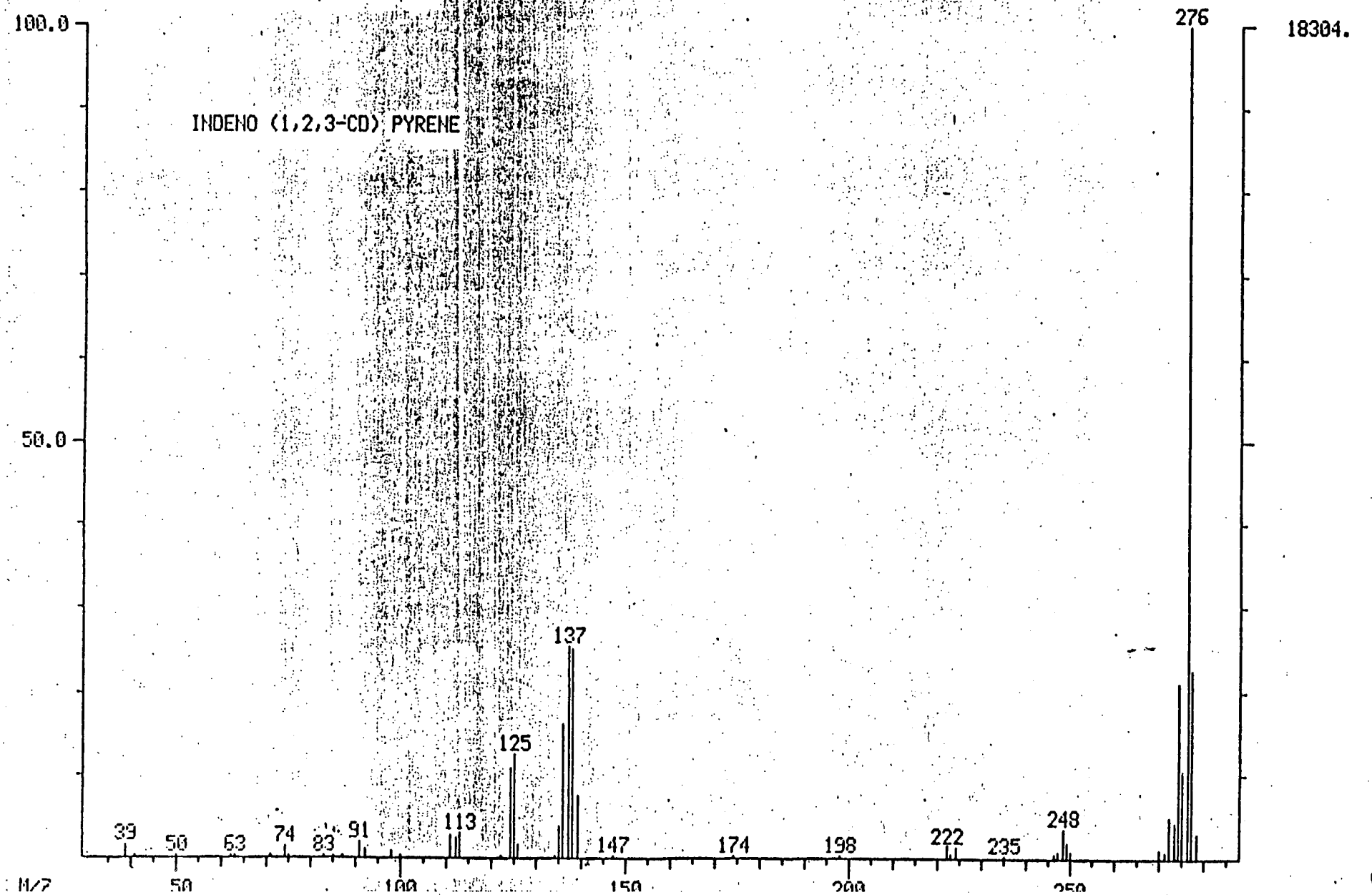


1362

MID MASS SPECTRUM
03/17/87 17:10:00 + 59:34
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #3710
CALI: HSC50317 #2

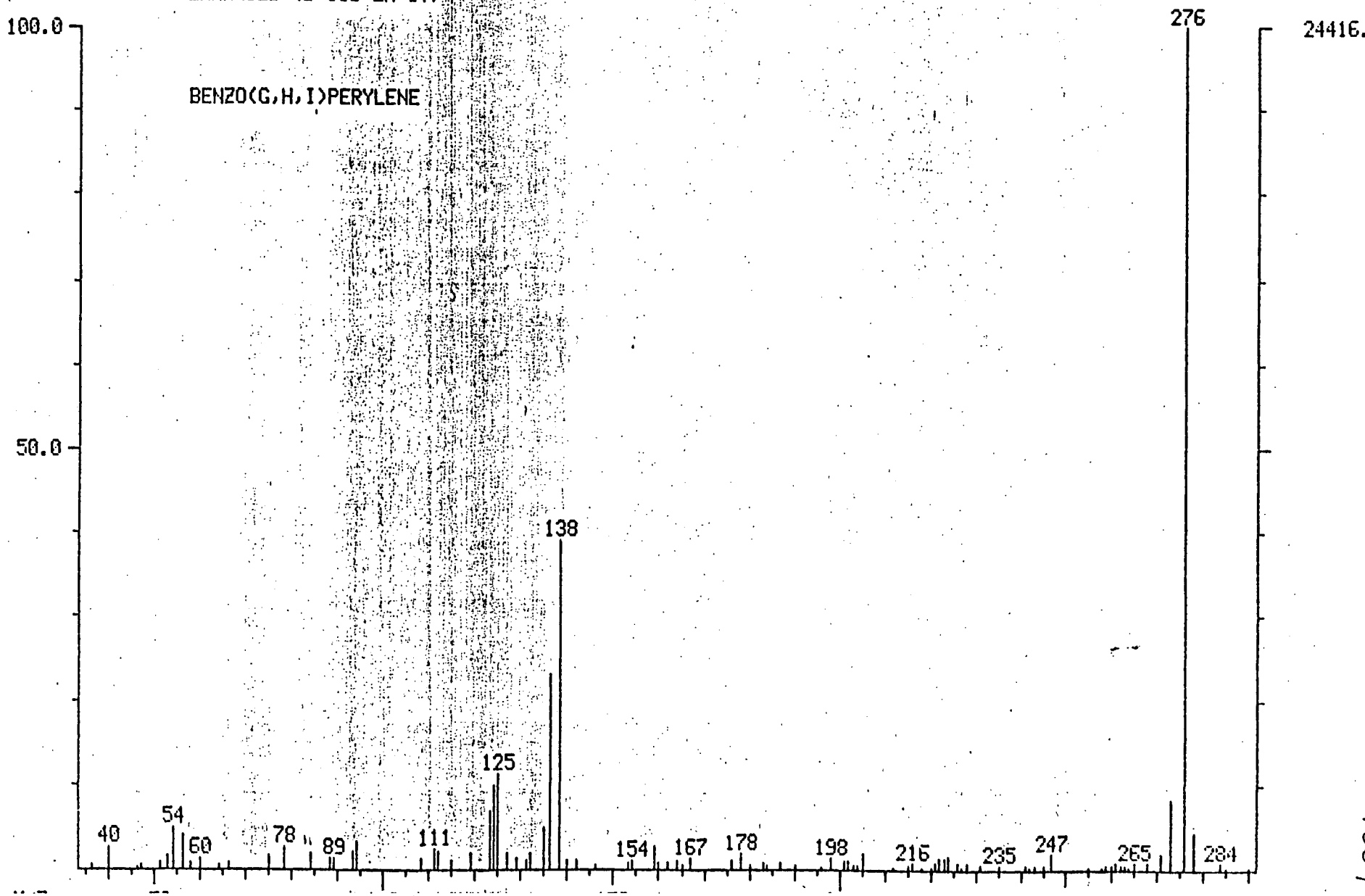
BASE M/Z: 276
RIC: 55296.



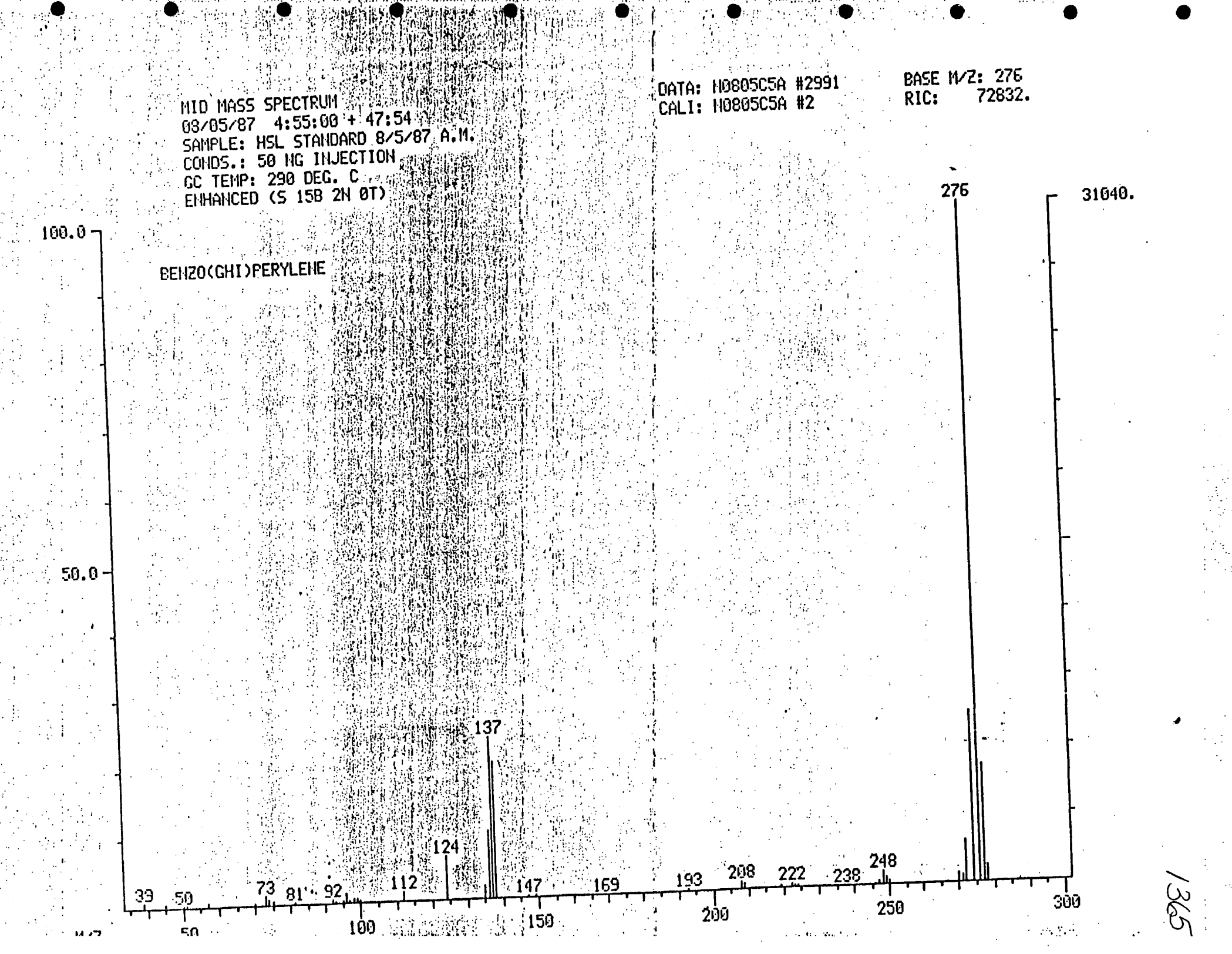
MID MASS SPECTRUM
08/25/87 23:23:00 +,46:32
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML, 1:10 DILUTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2906
CALI: 14558N5R #2

BASE M/Z: 276
RIC: 76160.



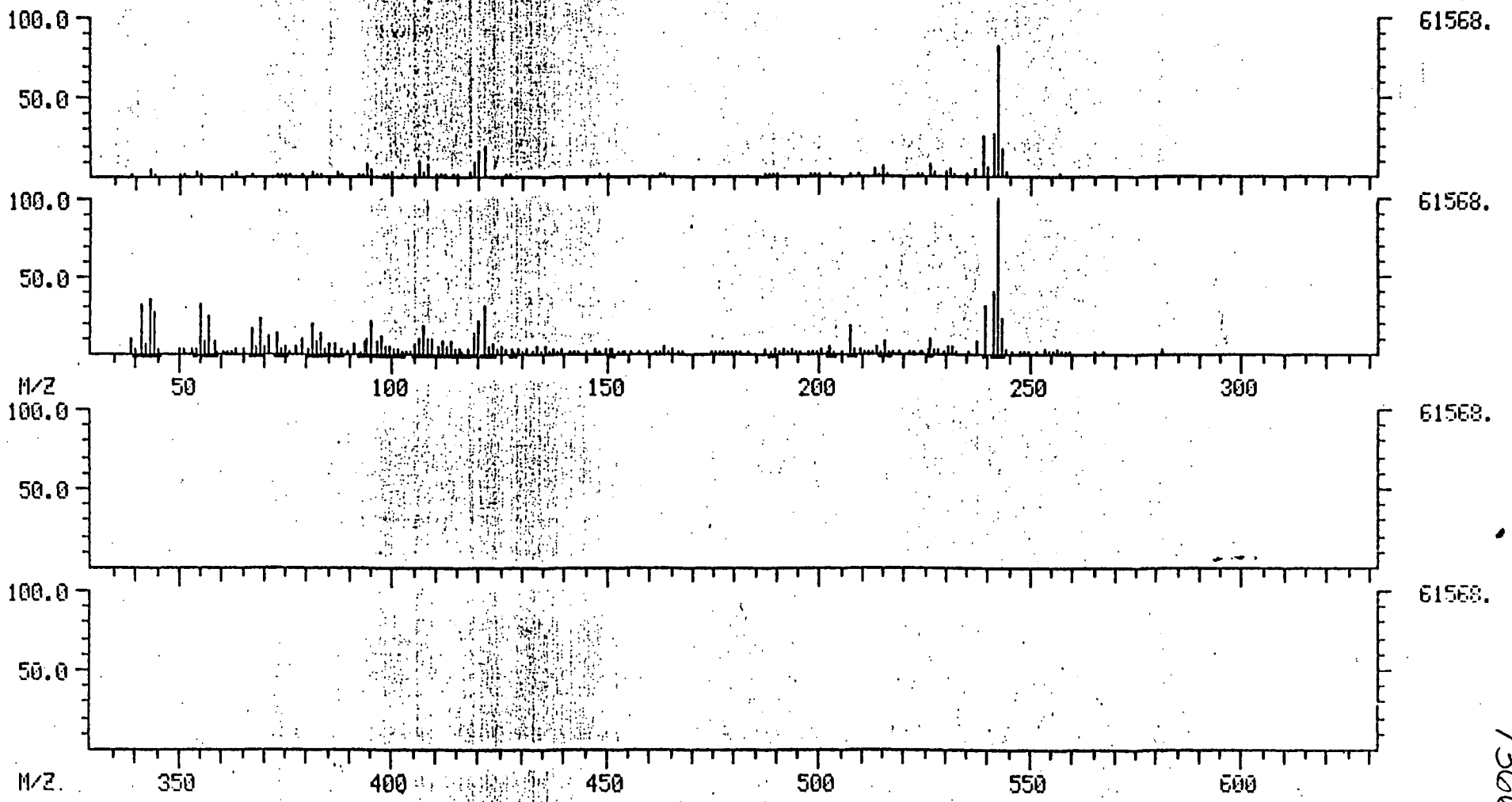
1364


MID MASS SPECTRUM
08/05/87 4:55:00 + 47:54
SAMPLE: HSL STANDARD 8/5/87 A.M.
CONDS.: 50 NG INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)
DATA: H0805C5A #2991
CALI: H0805C5A #2
BASE M/Z: 276
RIC: 72832.
BENZO(GHI)PERYLENE
100.0
50.0
276
31040.
137
124
39
50
73
81
92
112
147
169
193
208
222
238
248
50
100
150
200
250
300

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 33:12
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2073
CALI: 14558N5R #2

BASE M/Z: 242/ 242
RIC: 237823./ 691199.

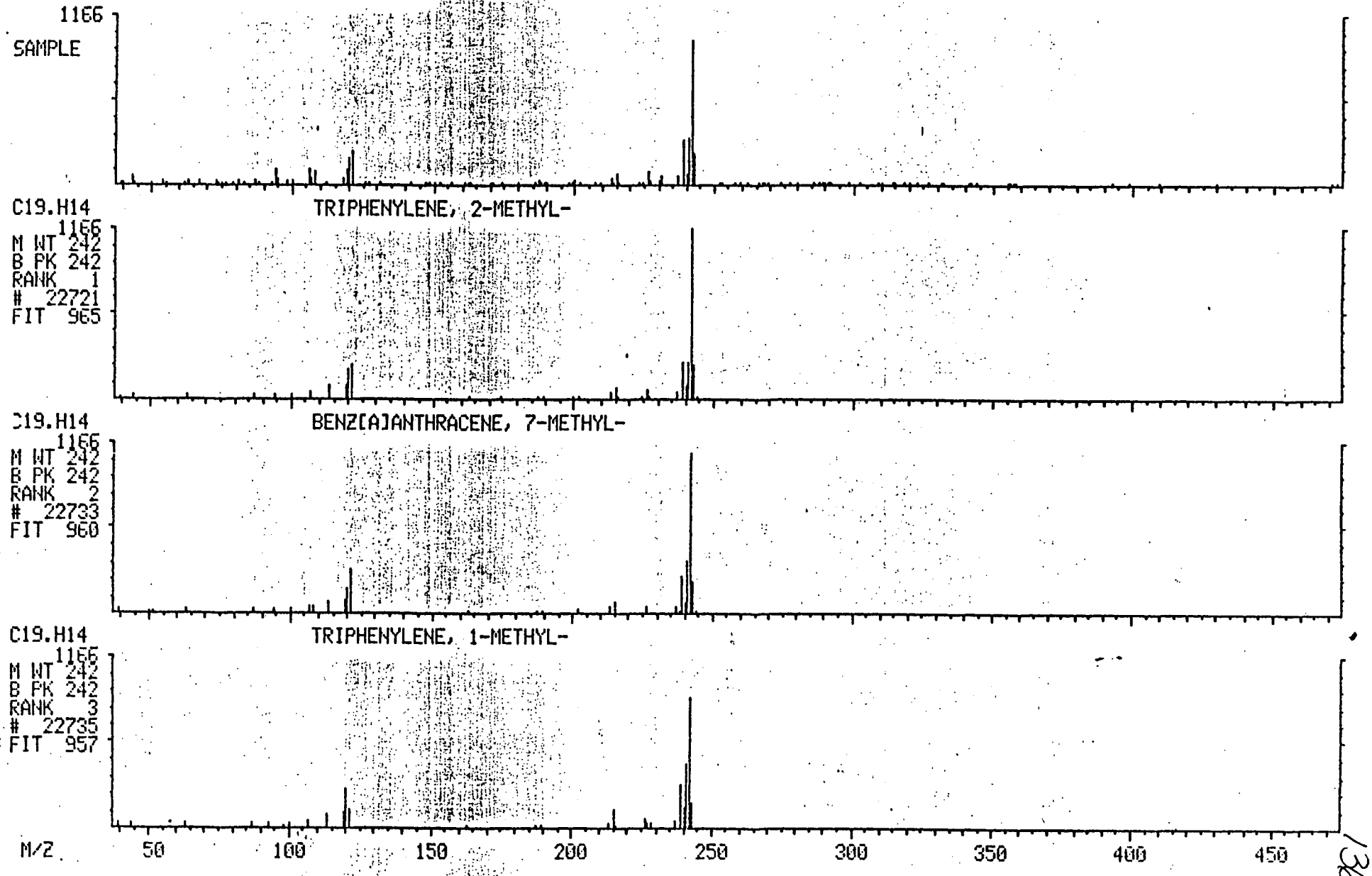


1366

MID LIBRARY SEARCH
08/25/87 23:23:00 + 33:12
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2073
CALI: 14558N5R # 2

BASE M/Z: 242
RIC: 222207.



1367

MID Library Search Data: 14558N5R #2073 Base m/z: 242
08/25/87 23:23:00 + 33:12 Cali: 14558N5R # 2 RIC: 222207.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

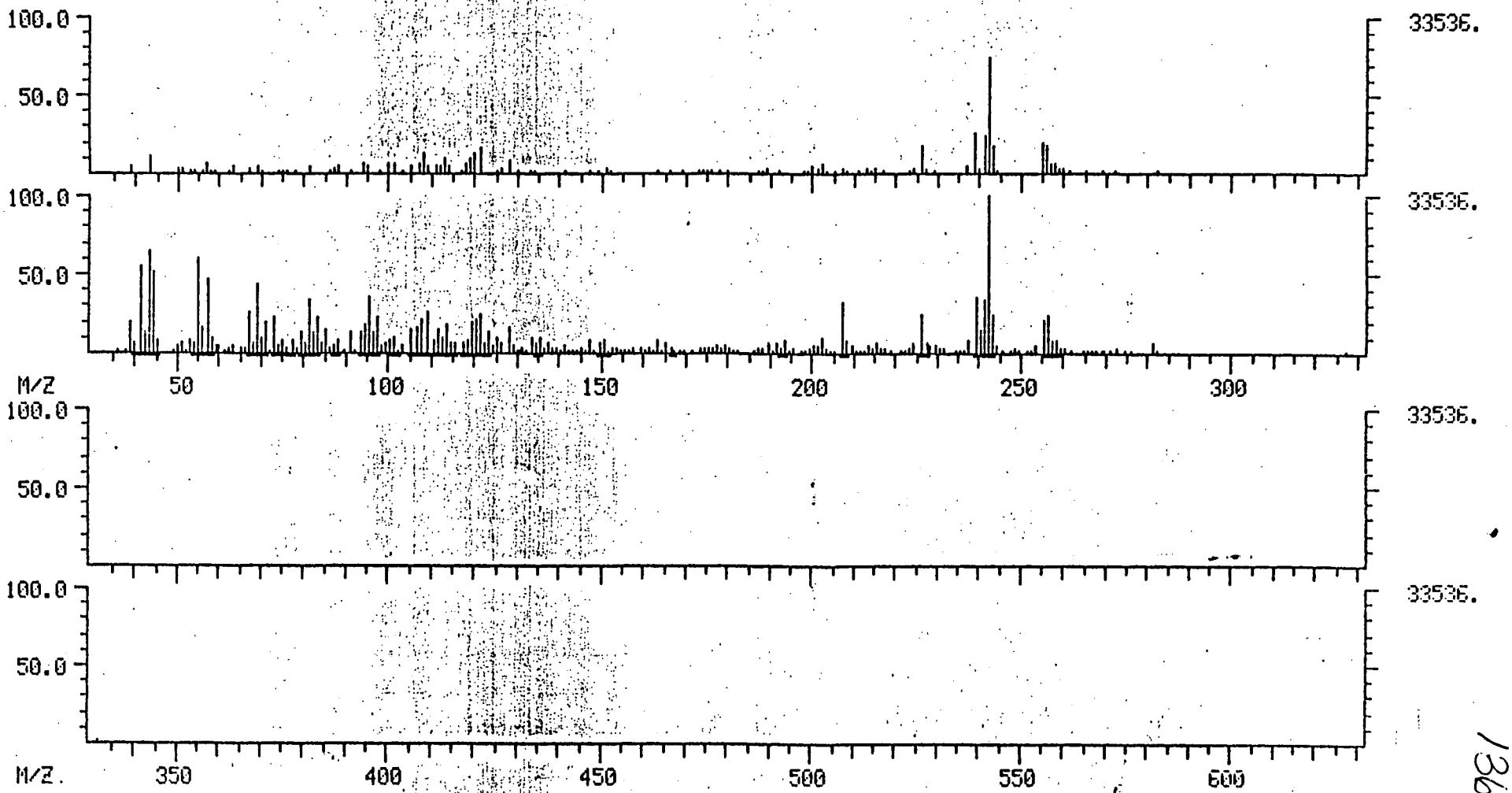
Rank	In.	Name
1	22721	TRIPHENYLENE, 2-METHYL-
2	22733	BENZ[A]ANTHRACENE, 7-METHYL-
3	22735	TRIPHENYLENE, 1-METHYL-
4	22738	CHRYSENE, 3-METHYL-
5	22729	BENZ[A]ANTHRACENE, 12-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H14	242	242	782	965	801
2	C19.H14	242	242	764	960	787
3	C19.H14	242	242	751	957	772
4	C19.H14	242	242	771	955	791
5	C19.H14	242	242	759	951	785

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	———	———	———	———	1705-84-6
2	———	———	———	———	2541-69-7
3	———	———	———	———	2871-91-2
4	———	———	———	———	3351-31-3
5	———	———	———	———	2422-79-9

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 33:20
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML ; 1:10 DILUTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2081 BASE M/Z: 242/ 242
CALI: 14558N5R #2 RIC: 178943./ 624639.

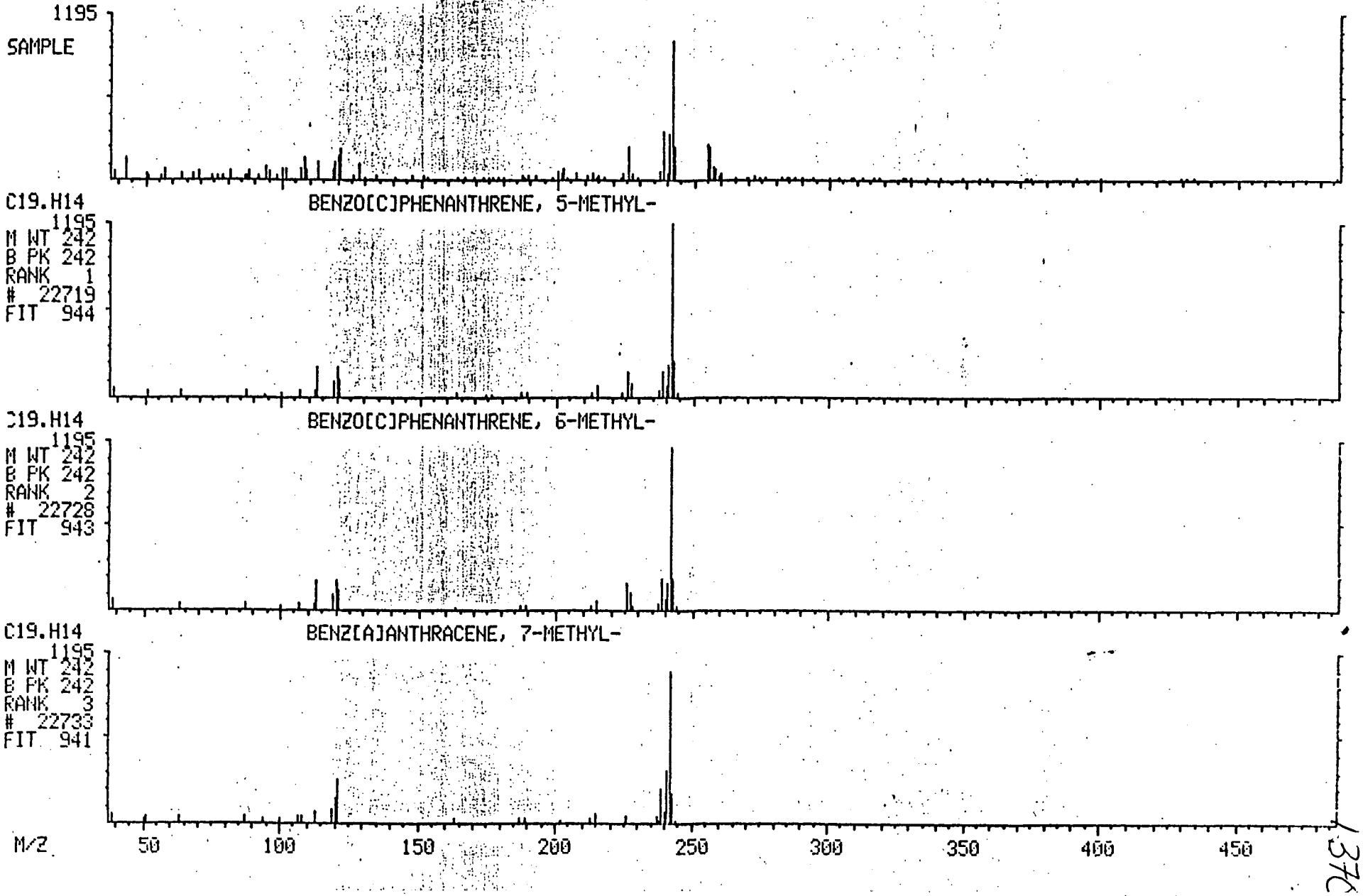


1369

MID LIBRARY SEARCH
08/25/87 23:23:00 + 33:20
SAMPLE: 14558N5
CONDS.: 10.34GMS/1,0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2081
CALI: 14558N5R # 2

BASE M/Z: 242
RIC: 160767.



MID Library Search Data: 14558N5R #2081 Base m/z: 242
08/25/87 23:23:00 + 33:20 Cali: 14558N5R # 2 RIC: 160767.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

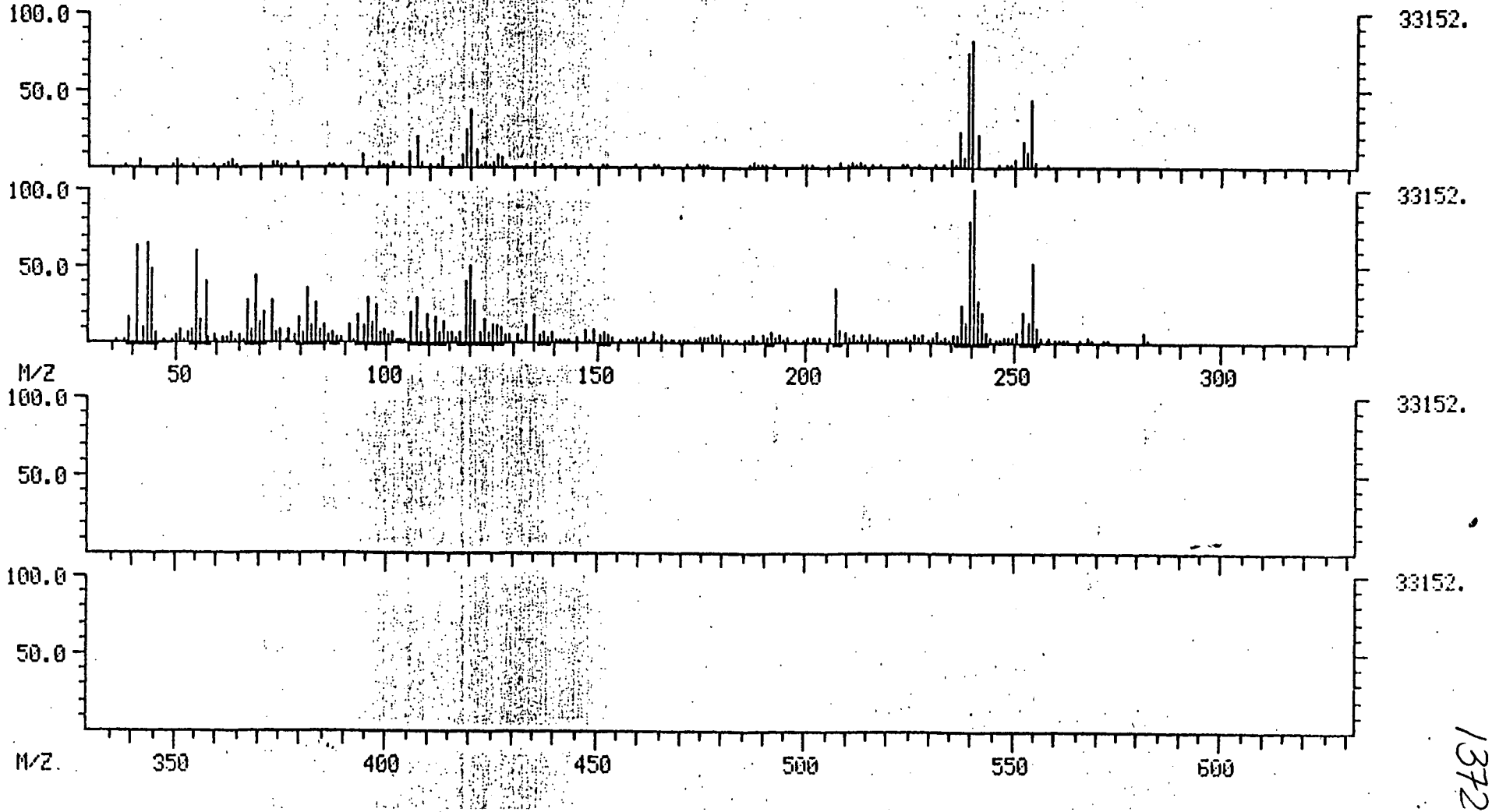
Rank	In.	Name
1	22719	BENZO[C]PHENANTHRENE, 5-METHYL-
2	22728	BENZO[C]PHENANTHRENE, 6-METHYL-
3	22733	BENZ[A]ANTHRACENE, 7-METHYL-
4	22738	CHRYSENE, 3-METHYL-
5	22739	CHRYSENE, 5-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H14	242	242	568	944	579
2	C19.H14	242	242	546	943	561
3	C19.H14	242	242	575	941	583
4	C19.H14	242	242	579	941	587
5	C19.H14	242	242	570	936	585

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	652-04-0
2	___	___	___	___	2381-34-2
3	___	___	___	___	2541-69-7
4	___	___	___	___	3351-31-3
5	___	___	___	___	3697-24-3

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 33:31
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 289 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2093 BASE M/Z: 240/ 240
CALI: 14558N5R #2 RIC: 193023./ 643071.

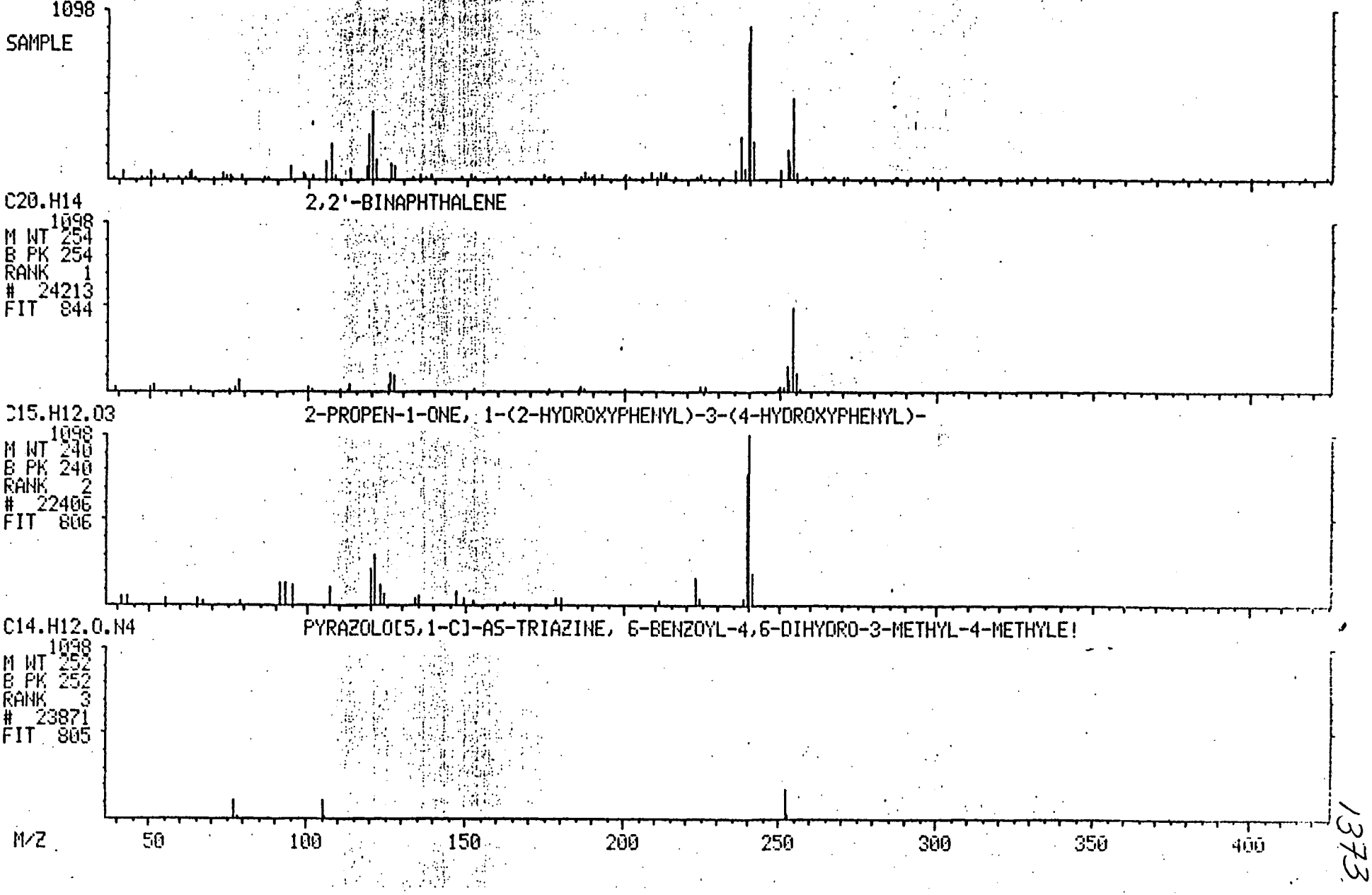


1372

MID LIBRARY SEARCH
08/25/87 23:23:00 + 33:31
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2093
CALI: 14558N5R # 2

BASE M/Z: 240
RIC: 180479.



1373

MID Library Search Data: 14558N5R #2093 Base m/z: 240
08/25/87 23:23:00 + 33:31 Cali: 14558N5R # 2 RIC: 180479.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N 0T)

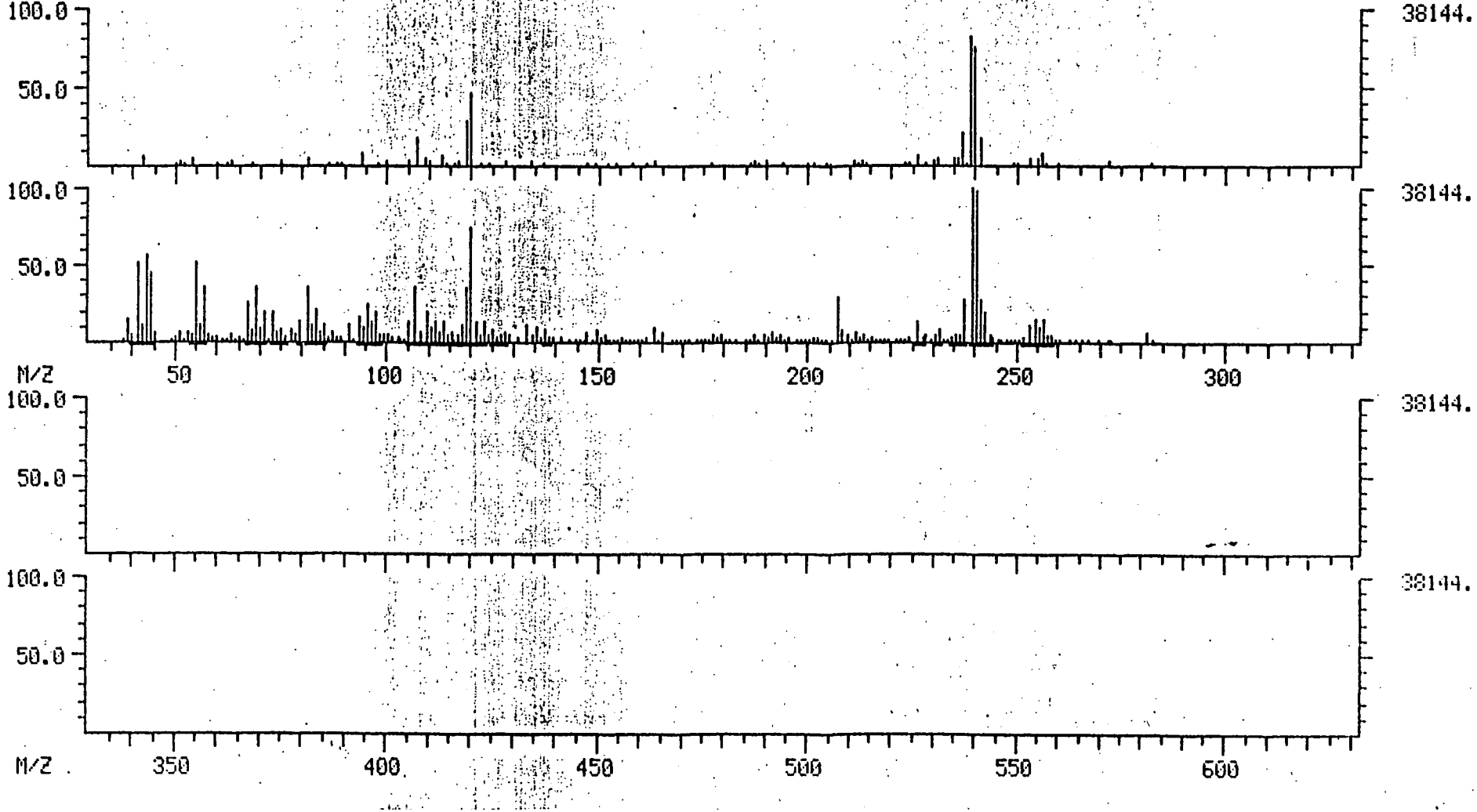
Rank	In.	Name
1	24213	2,2'-BINAPHTHALENE
2	22406	2-PROPEN-1-ONE, 1-(2-HYDROXYPHENYL)-3-(4-HYDROXYPHENYL)-
3	23871	PYRAZOLO[5,1-C]-AS-TRIAZINE, 6-BENZOYL-4,6-DIHYDRO-3-METHYL-4-METHY*
4	21982	BENZOIC ACID, 4-CYANO-, 4-METHYLPHENYL ESTER
5	24154	METHANONE, (6-METHYL-1,3-BENZODIOXOL-5-YL)(4-METHYLPHENYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C20.H14	254	254	211	844	240
2	C15.H12.O3	240	240	425	806	500
3	C14.H12.O.N4	252	252	57	805	66
4	C15.H11.O2.N	237	237	68	775	68
5	C16.H14.O3	254	239	394	740	427

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	———	———	———	———	612-78-2
2	———	———	———	———	13323-66-5
3	———	———	———	———	6763-76-4
4	———	———	———	———	32792-63-5
5	———	———	———	———	52806-36-7

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 33:44
SAMPLE: 14558N5
CONDS.: 10.34GM5/1.0ML 1:10 DILUTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2106 BASE M/Z: 239/ 239
CALI: 14558N5R #2 RIC: 183295./ 672767.

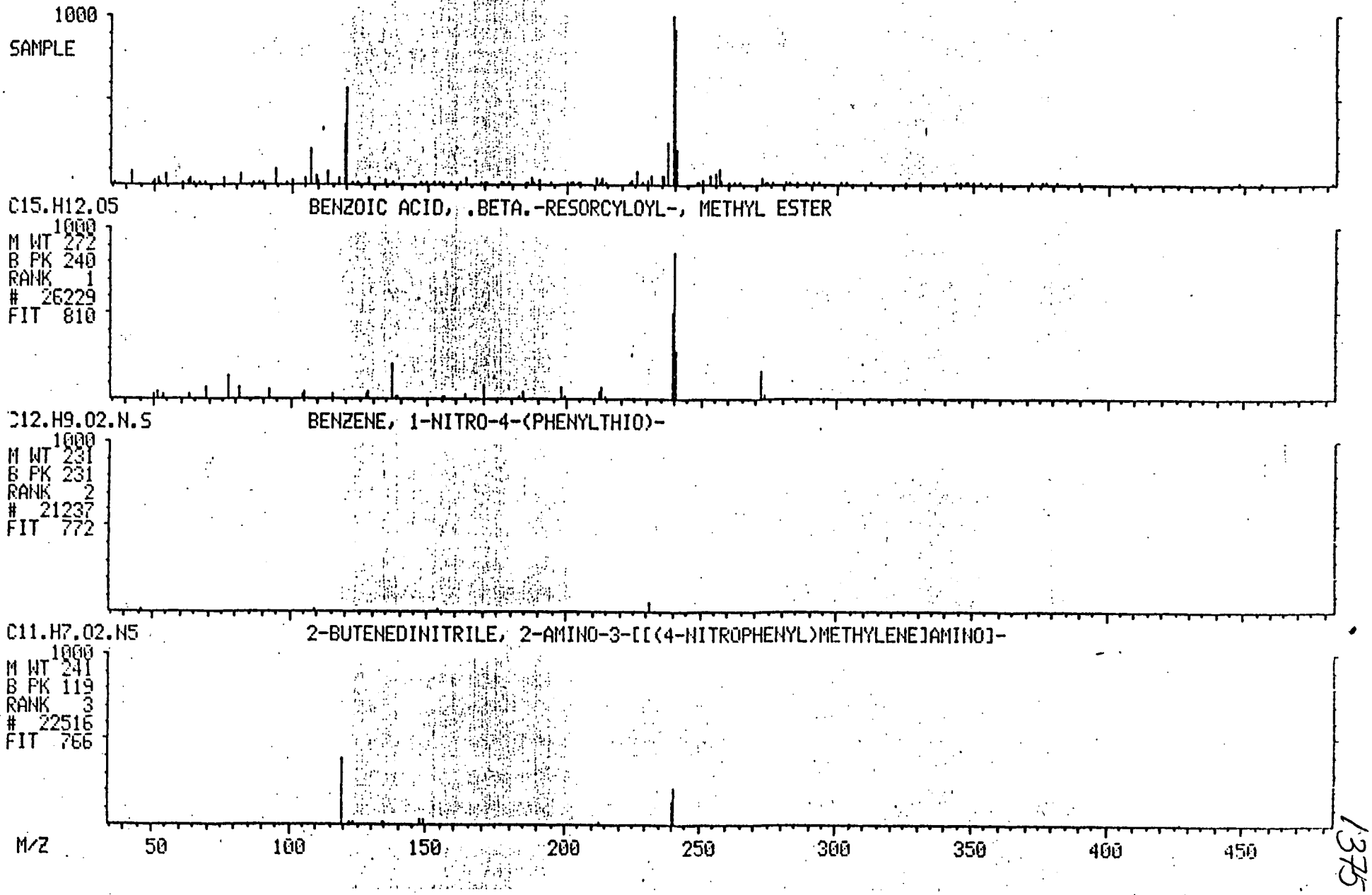


1374

MID LIBRARY SEARCH
08/25/87 23:23:00 + 33:44
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2106
CALI: 14558N5R # 2

BASE M/Z: 239
RIC: 179967.



1375

MID Library Search Data: 14558N5R #2106 Base m/z: 239
08/25/87 23:23:00 + 33:44 Cali: 14558N5R # 2 RIC: 179967.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

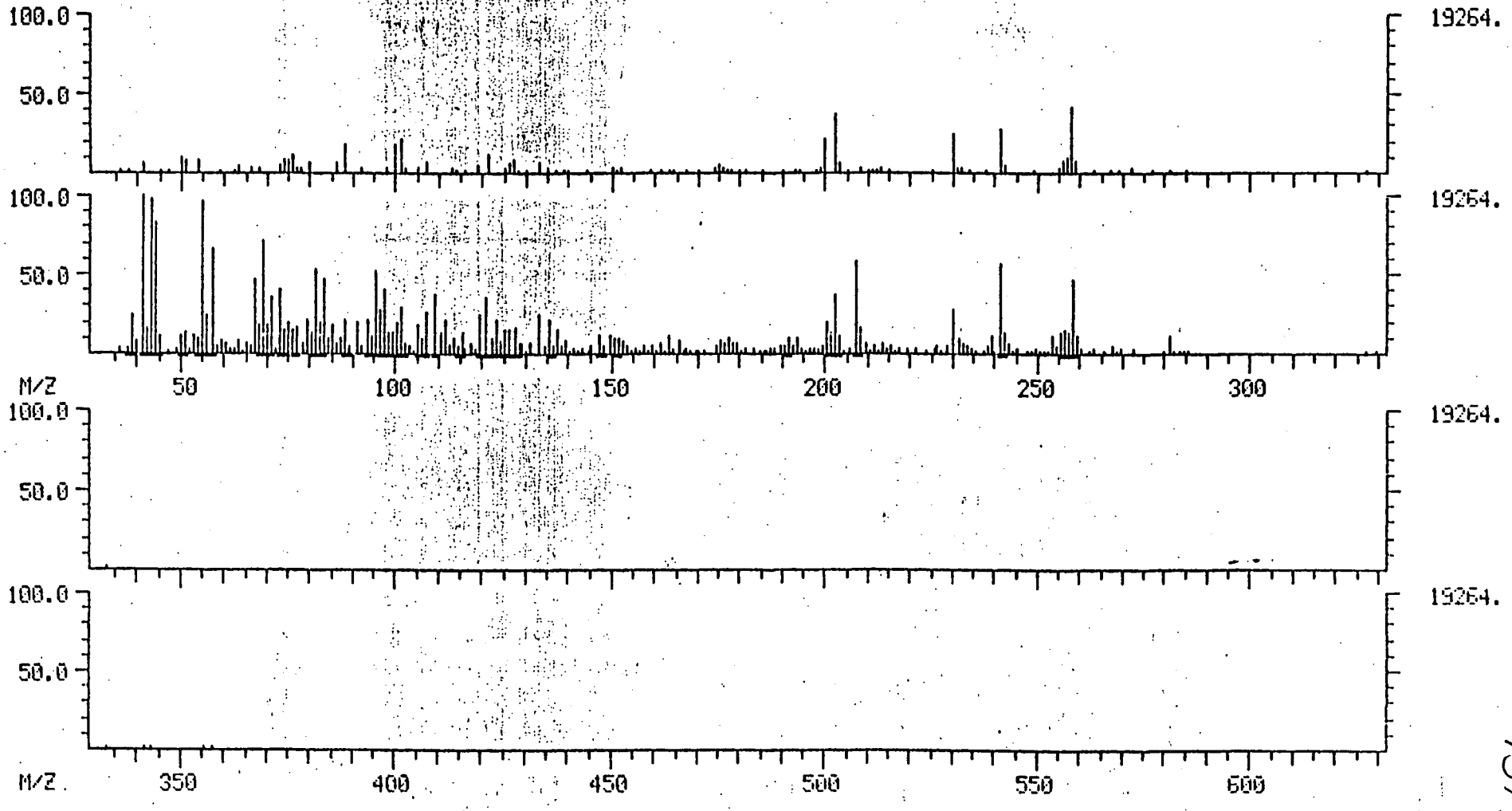
Rank	In.	Name
1	26229	BENZOIC ACID, .BETA.-RESORCYLOYL-, METHYL ESTER
2	21237	BENZENE, 1-NITRO-4-(PHENYLTHIO)-
3	22516	2-BUTENEDINITRILE, 2-AMINO-3-[[(4-NITROPHENYL)METHYLENE]AMINO]-
4	22374	BENZALDEHYDE, M-HYDROXY-, AZINE
5	2295	2,5-PYRROLIDINEDIONE, 3-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H12.O5	272	240	430	810	475
2	C12.H9.O2.N.S	231	231	14	772	15
3	C11.H7.O2.N5	241	119	239	766	248
4	C14.H12.O2.N2	240	240	480	748	546
5	C5.H7.O2.N	113	113	9	730	12

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	21147-36-4
2	___	___	___	___	952-97-6
3	___	___	___	___	55083-92-6
4	___	___	___	___	18428-76-7
5	___	___	___	___	5615-90-7

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 34:23
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2147 BASE M/Z: 258/ 41
CALI: 14558N5R #2 RIC: 101119./ 513535.

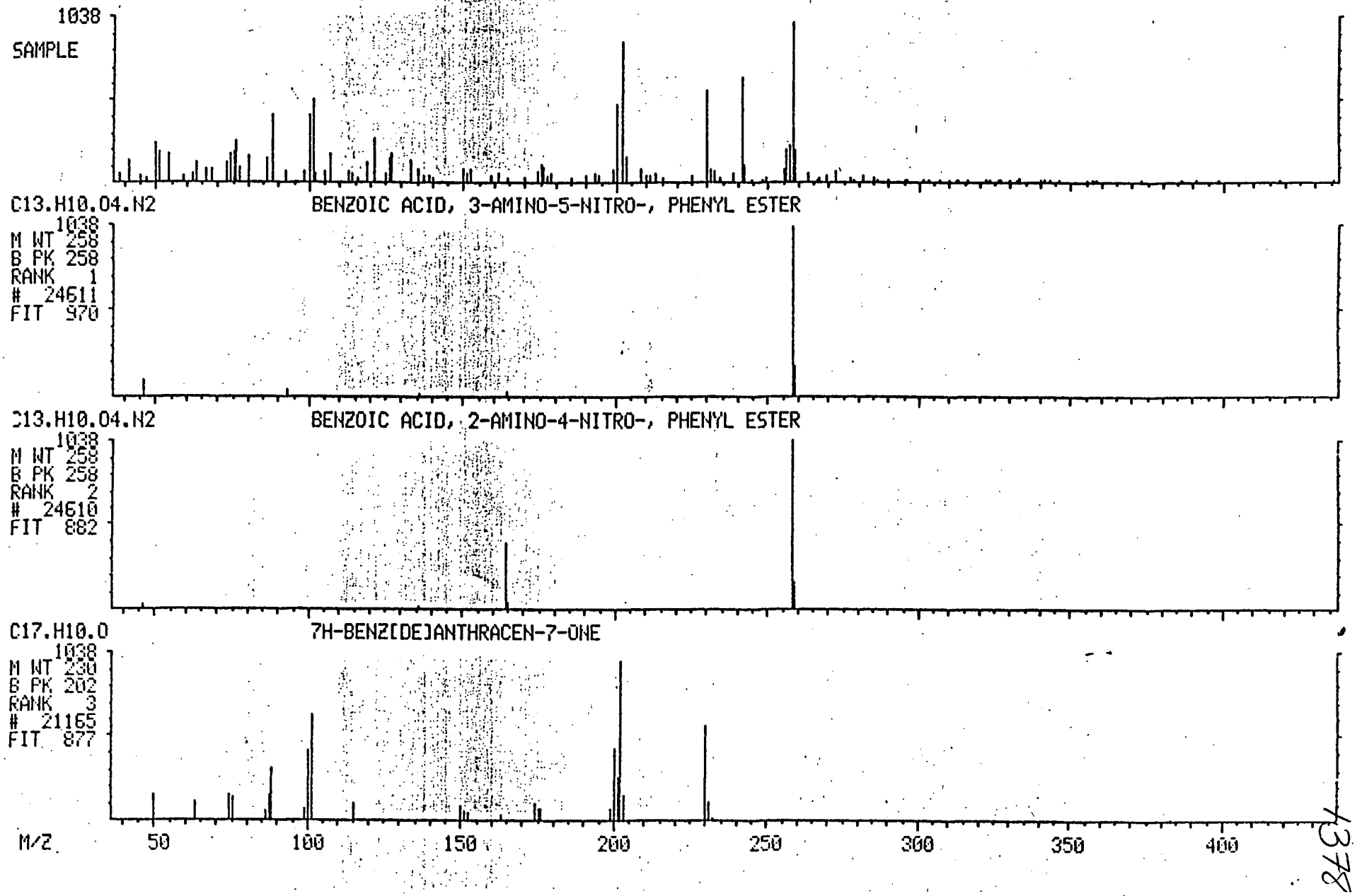


13747

MID LIBRARY SEARCH
08/25/87 23:23:00 + 34:23
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2147
CALI: 14558N5R # 2

BASE M/Z: 258
RIC: 96895.



1378

1379

1380

arch
:00 + 34:23

Data: 14558N5R #2147
Cali: 14558N5R # 2

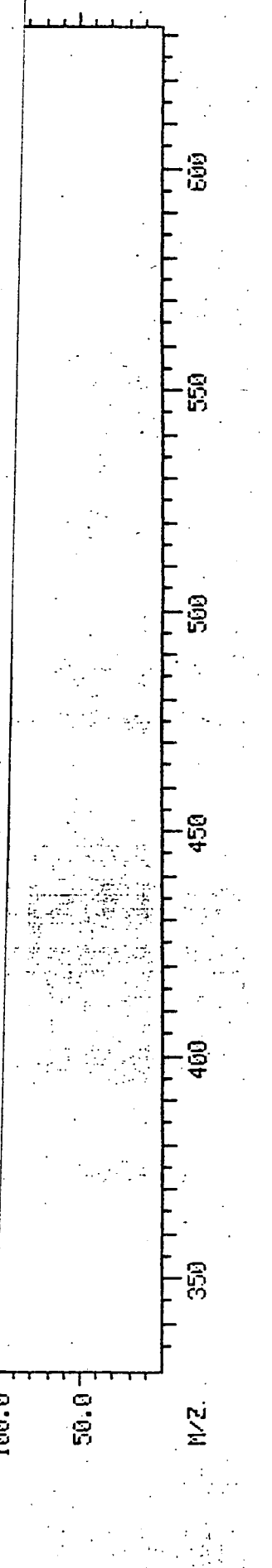
Base m/z: 258
RIC: 96895.

MS/1.0ML 1:10 DILUTION
3 2N OT)

Name
C ACID, 3-AMINO-5-NITRO-, PHENYL ESTER
C ACID, 2-AMINO-4-NITRO-, PHENYL ESTER
Z[DE]ANTHRACEN-7-ONE
1,2-B:5,4-B']DIFURAN-4,8-DIONE, 2-[1-(HYDROXYMETHYL)VINYL]-5-*
C ACID, 4-HYDROXY-3-(3-HYDROXYBENZOYL)-

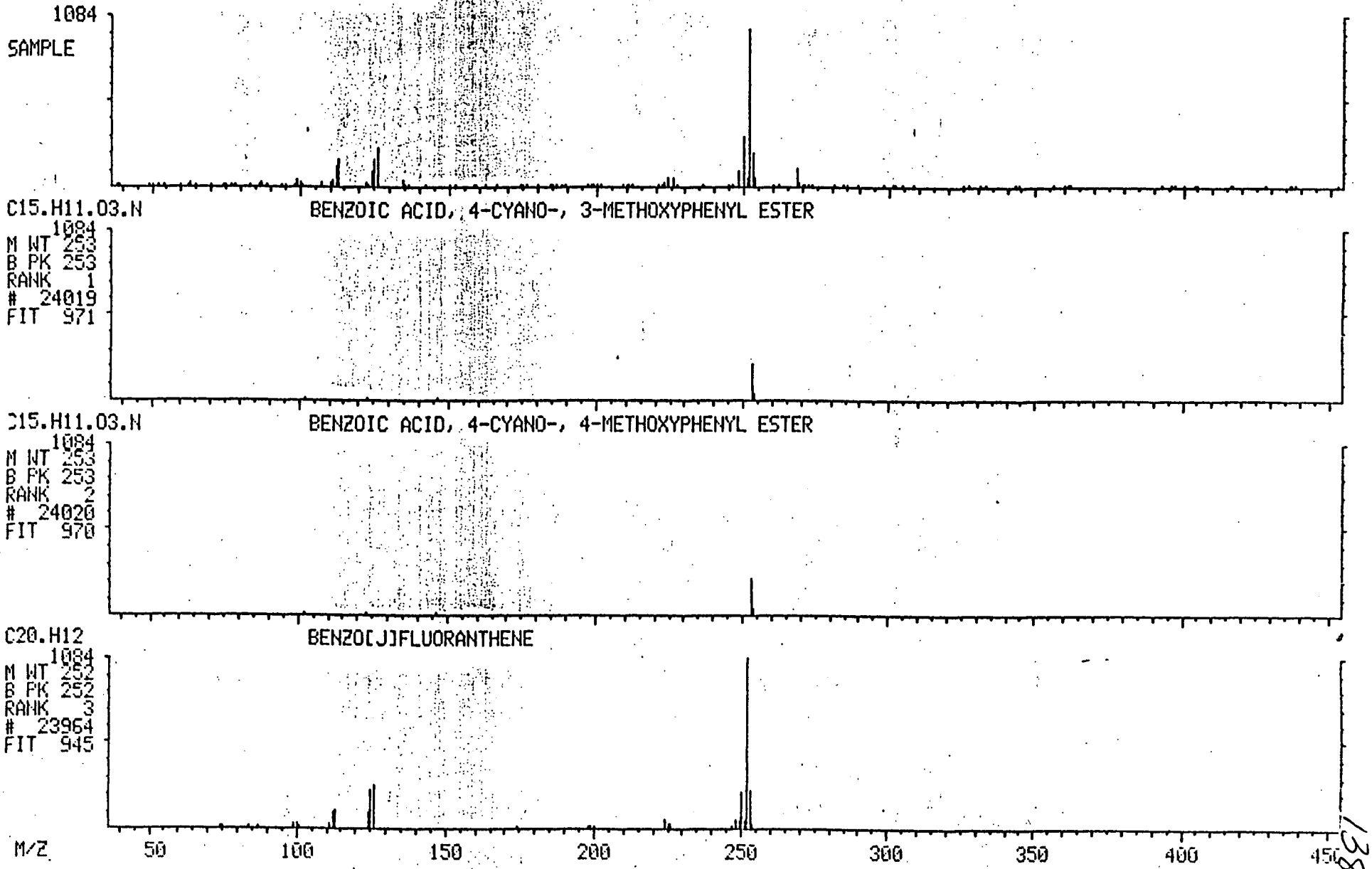
	M.Wt	B.Pk	Purity	Fit	RFit
04. N2	258	258	150	970	155
04. N2	258	258	137	882	140
	230	202	332	877	372
05	258	258	181	871	204
05	258	258	273	869	300

e	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
	—	—	—	55076-34-1
	—	—	—	55076-31-8
	—	—	—	82-05-3
	—	—	—	26962-41-4
	—	—	—	68595-48-2



MID LIBRARY SEARCH
08/25/87 23:23:00 + 36:14
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2262 BASE M/Z: 252
CALI: 14558N5R # 2 RIC: 246015.



1871

MID Library Search Data: 14558N5R #2262 Base m/z: 252
08/25/87 23:23:00 + 36:14 Cali: 14558N5R # 2 RIC: 246015.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

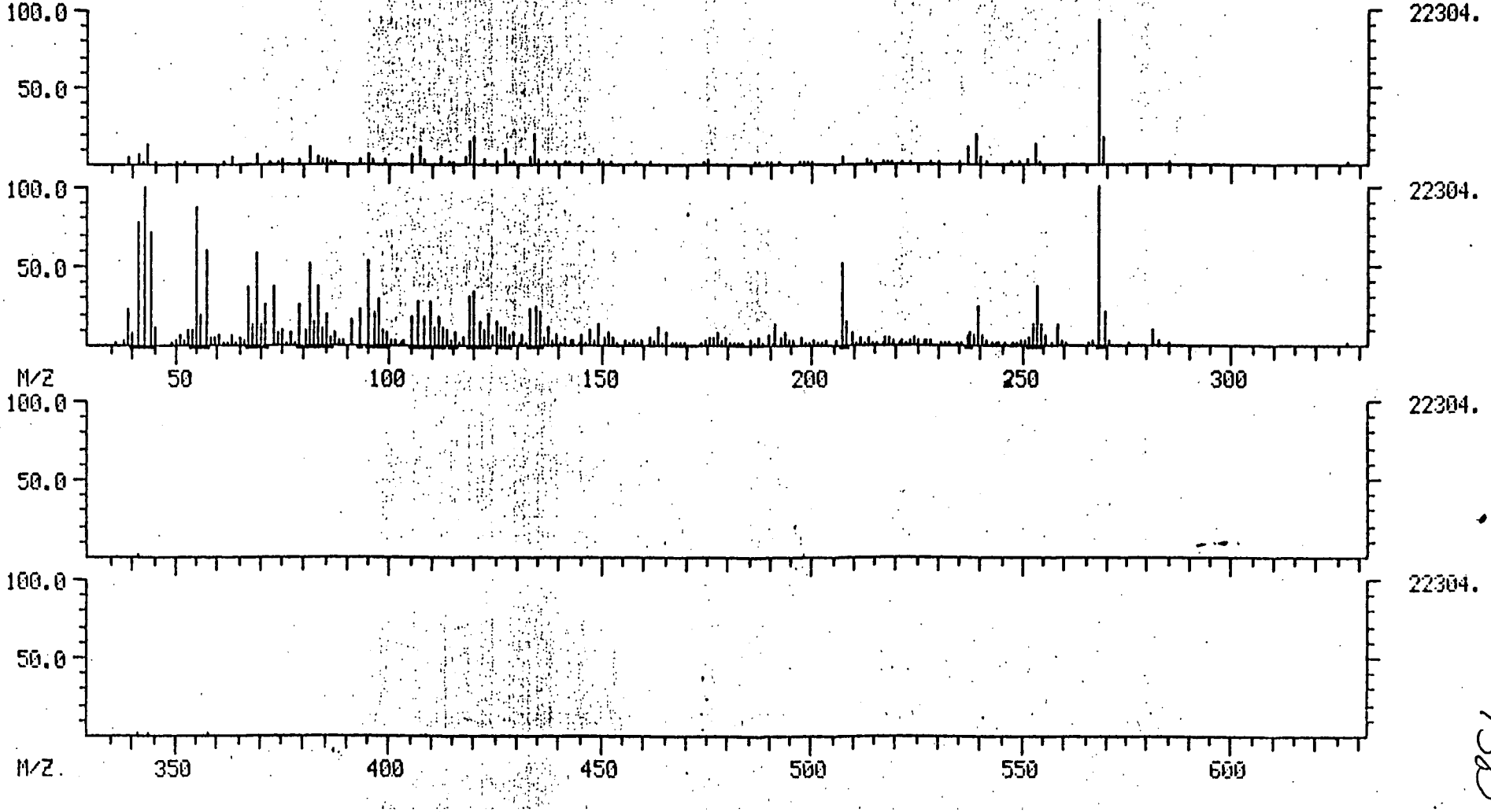
Rank	In.	Name
1	24019	BENZOIC ACID, 4-CYANO-, 3-METHOXYPHENYL ESTER
2	24020	BENZOIC ACID, 4-CYANO-, 4-METHOXYPHENYL ESTER
3	23964	BENZO[J]FLUORANTHENE
4	23961	BENZO[A]PYRENE
5	23966	BENZO[K]FLUORANTHENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H11.03.N	253	253	93	971	94
2	C15.H11.03.N	253	253	93	970	94
3	C20.H12	252	252	764	945	798
4	C20.H12	252	252	760	945	788
5	C20.H12	252	252	757	942	792

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	53327-11-0
2	———	———	———	———	53327-12-1
3	———	———	———	———	205-82-3
4	———	———	———	———	50-32-8
5	———	———	———	———	207-08-9

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 36:42
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2292 BASE M/Z: 268/ 43
CALI: 14558N5R #2 RIC: 99967./ 495103.

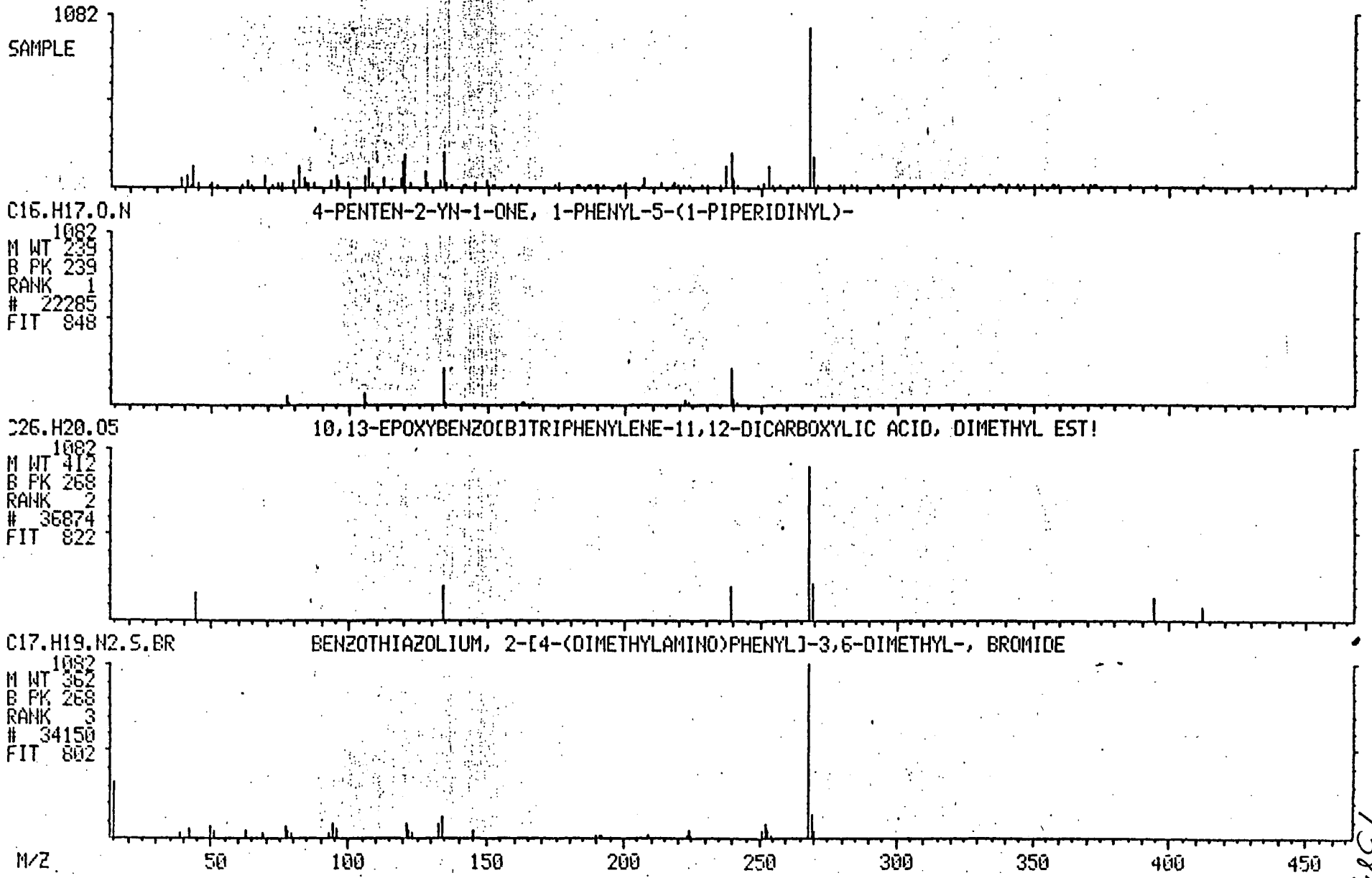


1323

MID LIBRARY SEARCH
08/25/87 23:23:00 + 36:42
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2292
CALI: 14558N5R # 2

BASE M/Z: 268
RIC: 96383.



1324

MID Library Search Data: 14558N5R #2292 Base m/z: 268
08/25/87 23:23:00 + 36:42 Cali: 14558N5R # 2 RIC: 96383.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

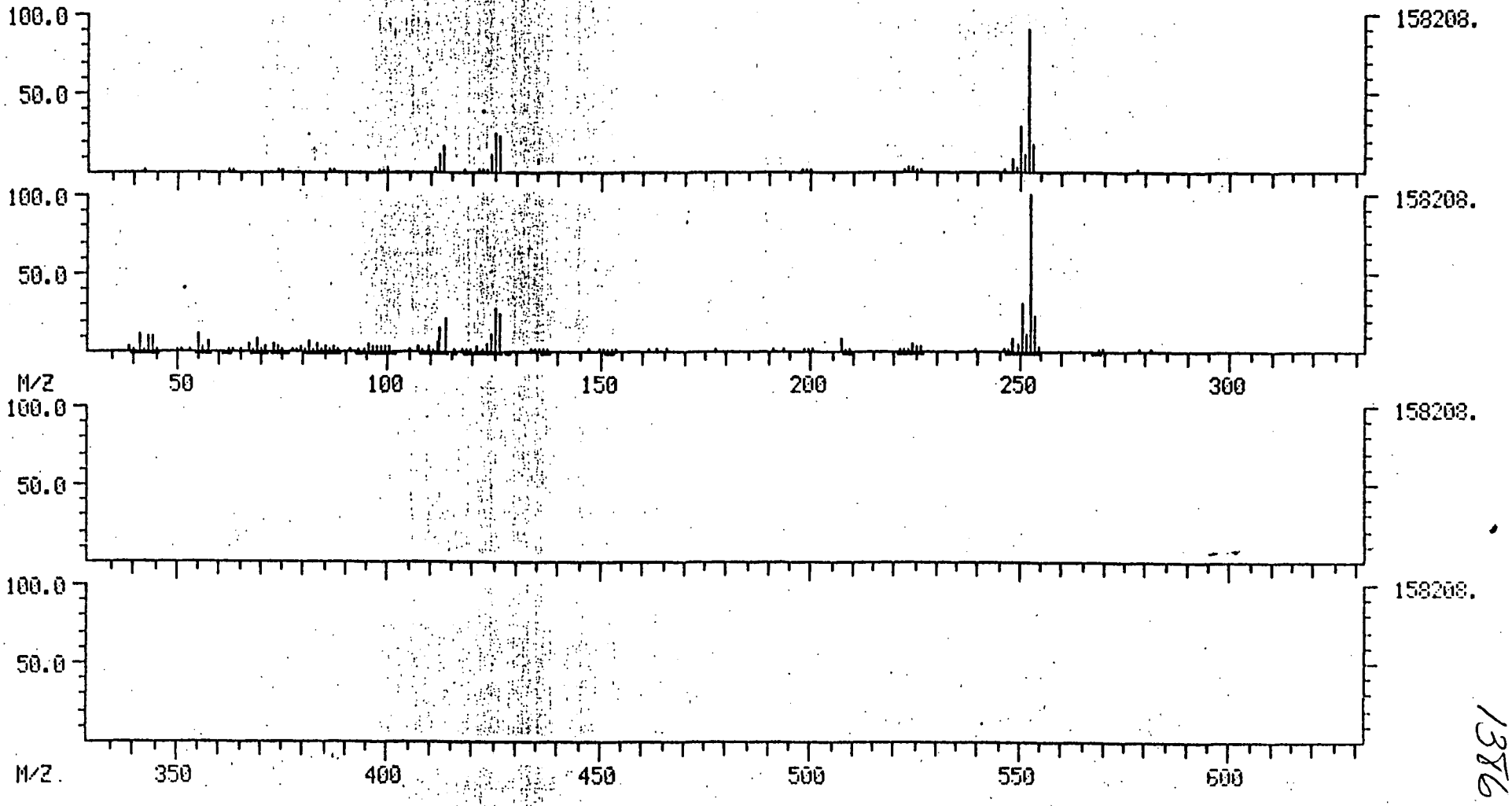
Rank	In.	Name
1	22285	4-PENTEN-2-YN-1-ONE, 1-PHENYL-5-(1-PIPERIDINYL)-
2	36874	10,13-EPOXYBENZO[B]TRIPHENYLENE-11,12-DICARBOXYLIC ACID, DIMETHYL E*
3	34150	BENZOTHIAZOLIUM, 2-[4-(DIMETHYLAMINO)PHENYL]-3,6-DIMETHYL-, BROMIDE
4	25778	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-7-METHOXY-3-PHENYL-
5	25713	METHANE, DIIODO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H17.O.N	239	239	114	848	131
2	C26.H20.O5	412	268	399	822	457
3	C17.H19.N2.S.BR	362	268	423	802	513
4	C16.H12.O4	268	268	424	792	437
5	C.H2.I2	268	268	342	766	346

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	———	———	———	———	29743-42-8
2	———	———	———	———	55331-84-5
3	———	———	———	———	47070-04-2
4	———	———	———	———	2555-24-0
5	———	———	———	———	75-11-6

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 37:03
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 289 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2313 BASE M/Z: 252/ 252
CALI: 14558N5R #2 RIC: 483839./ 889855.

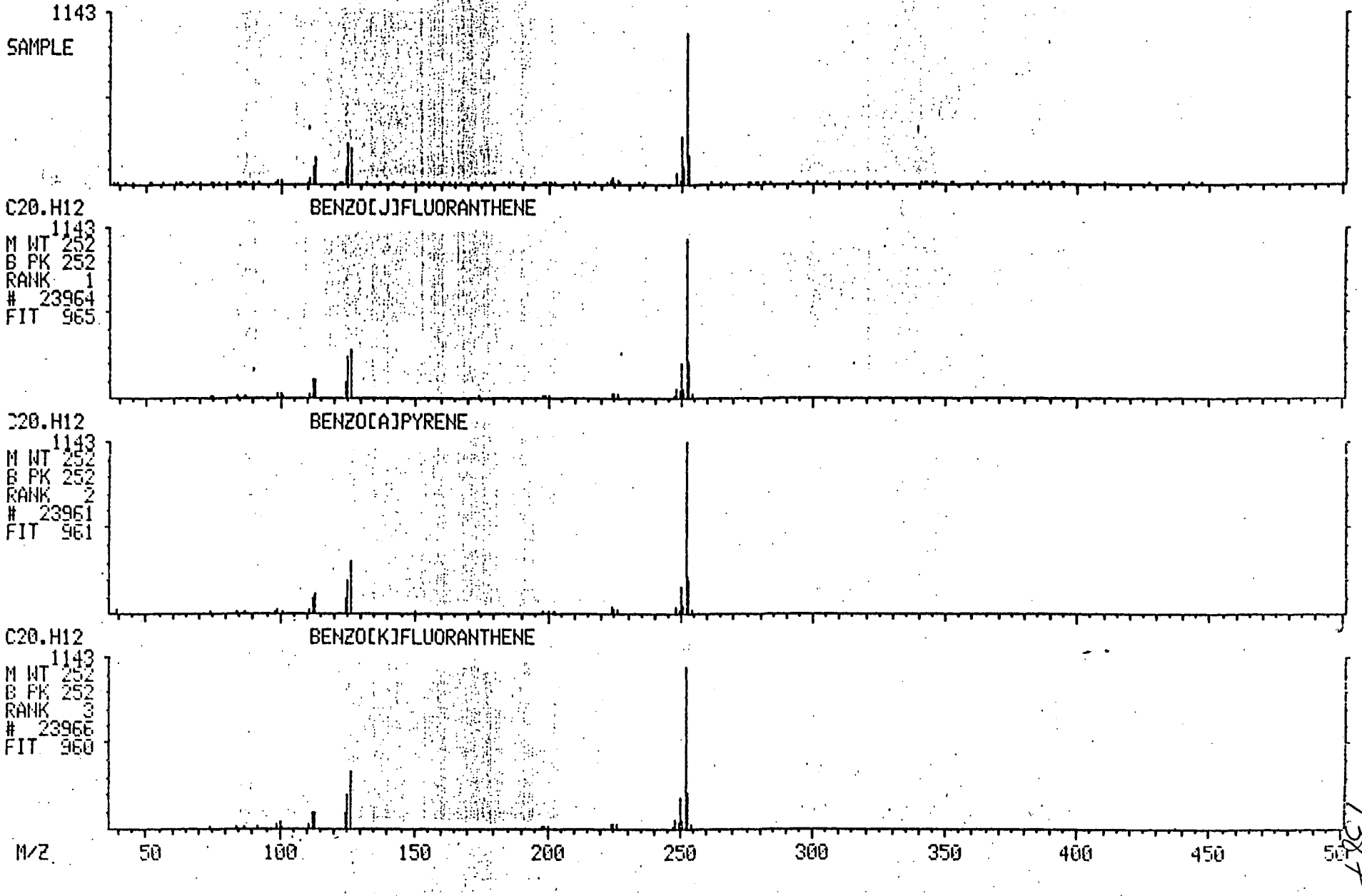


1376

MID LIBRARY SEARCH
08/25/87 23:23:00 + 37:03
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2313
CALI: 14558N5R # 2

BASE M/Z: 252
RIC: 474623.



1327

MID Library Search Data: 14558N5R #2313 Base m/z: 252
08/25/87 23:23:00 + 37:03 Cali: 14558N5R # 2 RIC: 474623.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

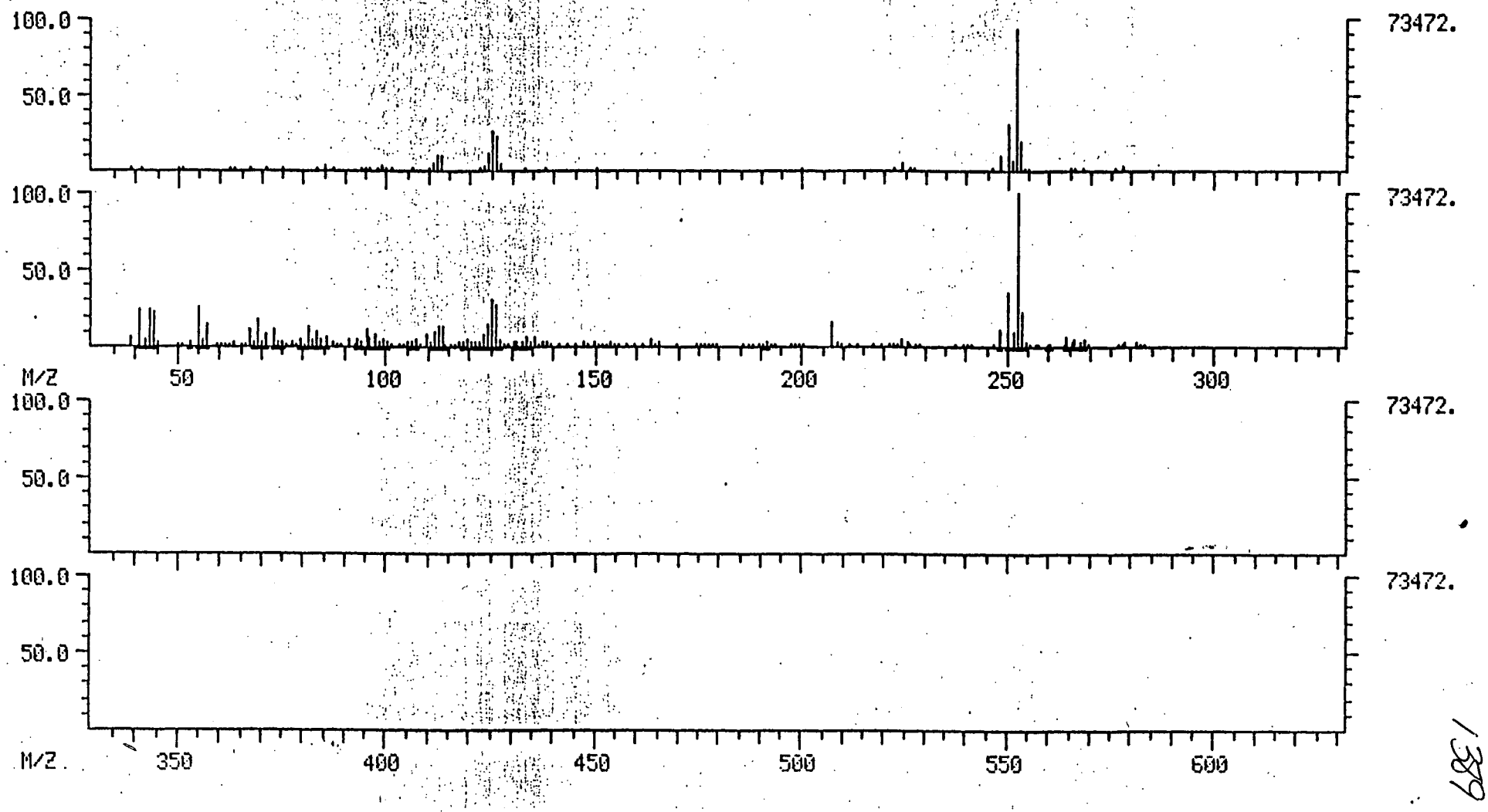
Rank	In.	Name
1	23964	BENZO[J]FLUORANTHENE
2	23961	BENZO[A]PYRENE
3	23966	BENZO[K]FLUORANTHENE
4	23965	BENZ[E]ACEPHENANTHRYLENE
5	23962	BENZO[E]PYRENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C20.H12	252	252	885	965	904
2	C20.H12	252	252	878	961	892
3	C20.H12	252	252	880	960	898
4	C20.H12	252	252	880	958	899
5	C20.H12	252	252	870	952	908

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

MID DUAL MASS SPECTRUM
08/25/87 23:23:00 + 37:42
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2354 BASE M/Z: 252/ 252
CALI: 14558N5R #2 RIC: 243711./ 664575.

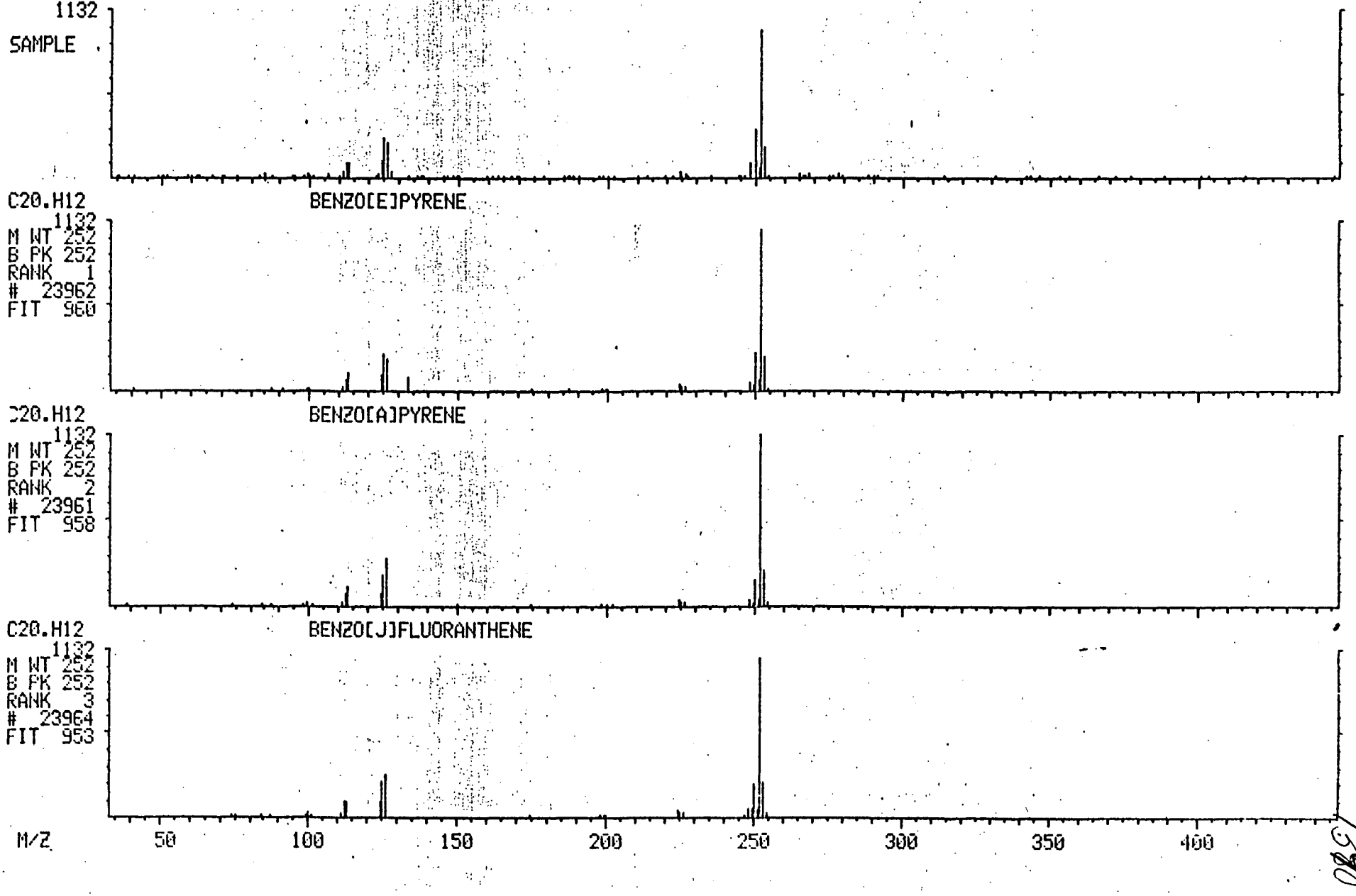


389/

MID LIBRARY SEARCH
08/25/87 23:23:00 + 37:42
SAMPLE: 14558N5
CONDS.: 10.34GMS/1.0ML 1:10 DILUTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N5R #2354
CALI: 14558N5R # 2

BASE M/Z: 252
RIC: 238591.



MID Library Search Data: 14558N5R #2354 Base m/z: 252
08/25/87 23:23:00 + 37:42 Cali: 14558N5R # 2 RIC: 238591.
Sample: 14558N5
Conds.: 10.34GMS/1.0ML 1:10 DILUTION
Enhanced (S 15B 2N OT)

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

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C20.H12	252	252	814	960	834
2	C20.H12	252	252	810	958	825
3	C20.H12	252	252	805	953	834
4	C20.H12	252	252	801	950	828
5	C20.H12	252	252	800	946	829

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

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSA0S1:750

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-6

Sample wt/vol: 10.4 (g/mL) G Lab File ID: 14558RN6

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 30 dec. Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/26/87

GPC Cleanup: (Y/N) N pH: Dilution Factor: 0.333

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	1400	U
111-44-4	bis(2-Chloroethyl)Ether	1400	U
95-57-8	2-Chlorophenol	1400	U
541-73-1	1,3-Dichlorobenzene	1400	U
106-46-7	1,4-Dichlorobenzene	1400	U
100-51-6	Benzyl Alcohol	1400	U
95-50-1	1,2-Dichlorobenzene	1400	U
95-48-7	2-Methylphenol	1400	U
39638-32-9	bis(2-Chloroisopropyl)Ether	1400	U
106-44-5	4-Methylphenol	1400	U
621-64-7	N-Nitroso-Di-n-Propylamine	1400	U
67-72-1	Hexachloroethane	1400	U
98-95-3	Nitrobenzene	1400	U
78-59-1	Isophorone	1400	U
88-75-5	2-Nitrophenol	1400	U
105-67-9	2,4-Dimethylphenol	1400	U
65-85-0	Benzoic Acid	6900	U
111-91-1	bis(2-Chloroethoxy)Methane	1400	U
120-83-2	2,4-Dichlorophenol	1400	U
120-82-1	1,2,4-Trichlorobenzene	1400	U
91-20-3	Naphthalene	12000	
106-47-8	4-Chloroaniline	1400	U
87-68-3	Hexachlorobutadiene	1400	U
59-50-7	4-Chloro-3-Methylphenol	1400	U
91-57-6	2-Methylnaphthalene	1400	U
77-47-4	Hexachlorocyclopentadiene	1400	U
88-06-2	2,4,6-Trichlorophenol	1400	U
95-95-4	2,4,5-Trichlorophenol	6900	U
91-58-7	2-Chloronaphthalene	1400	U
88-74-4	2-Nitroaniline	6900	U
131-11-3	Dimethyl Phthalate	1400	U
208-96-8	Acenaphthylene	1400	U
606-20-2	2,6-Dinitrotoluene	1400	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSA011750

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-6

Sample wt/vol: 10.4 (g/mL) G Lab File ID: 14558RN6

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 30 dec. _____ Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/26/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.333

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	6900	U
83-32-9	Acenaphthene	1400	U
51-28-5	2,4-Dinitrophenol	6900	U
100-02-7	4-Nitrophenol	6900	U
132-64-9	Dibenzofuran	11000	
121-14-2	2,4-Dinitrotoluene	1400	U
84-66-2	Diethylphthalate	1400	U
7005-72-3	4-Chlorophenyl-phenylether	1400	U
86-73-7	Fluorene	1400	U
100-10-6	4-Nitroaniline	6900	U
534-52-1	4,6-Dinitro-2-Methylphenol	6900	U
86-30-6	N-Nitrosodiphenylamine (1)	1400	U
101-55-3	4-Bromophenyl-phenylether	1400	U
118-74-1	Hexachlorobenzene	1400	U
87-86-5	Pentachlorophenol	6900	U
85-01-8	Phenanthrene	33000	
120-12-7	Anthracene	1400	U
84-74-2	Di-n-Butylphthalate	17000	
206-44-0	Fluoranthene	1400	U
129-00-0	Pyrene	5800	
85-68-7	Butylbenzylphthalate	1400	U
91-94-1	3,3'-Dichlorobenzidine	2800	U
56-55-3	Benzo(a)Anthracene	1400	U
218-01-9	Chrysene	12000	
117-81-7	bis(2-Ethylhexyl)Phthalate	1400	U
117-84-0	Di-n-Octyl Phthalate	1400	U
205-99-2	Benzo(b)Fluoranthene	4200	
207-08-9	Benzo(k)Fluoranthene	1400	U
50-32-8	Benzo(a)Pyrene	2900	
193-39-5	Indeno(1,2,3-cd)Pyrene	1400	U
53-70-3	Dibenz(a,h)Anthracene	1400	U
191-24-2	Benzo(g,h,i)Perylene	1400	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSA0811750

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14538 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14538-6

Sample wt/vol: 10.4 (g/mL) G Lab File ID: 14538RN6

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 30 dec. _____ Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/26/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.333

Number TICs found: 0

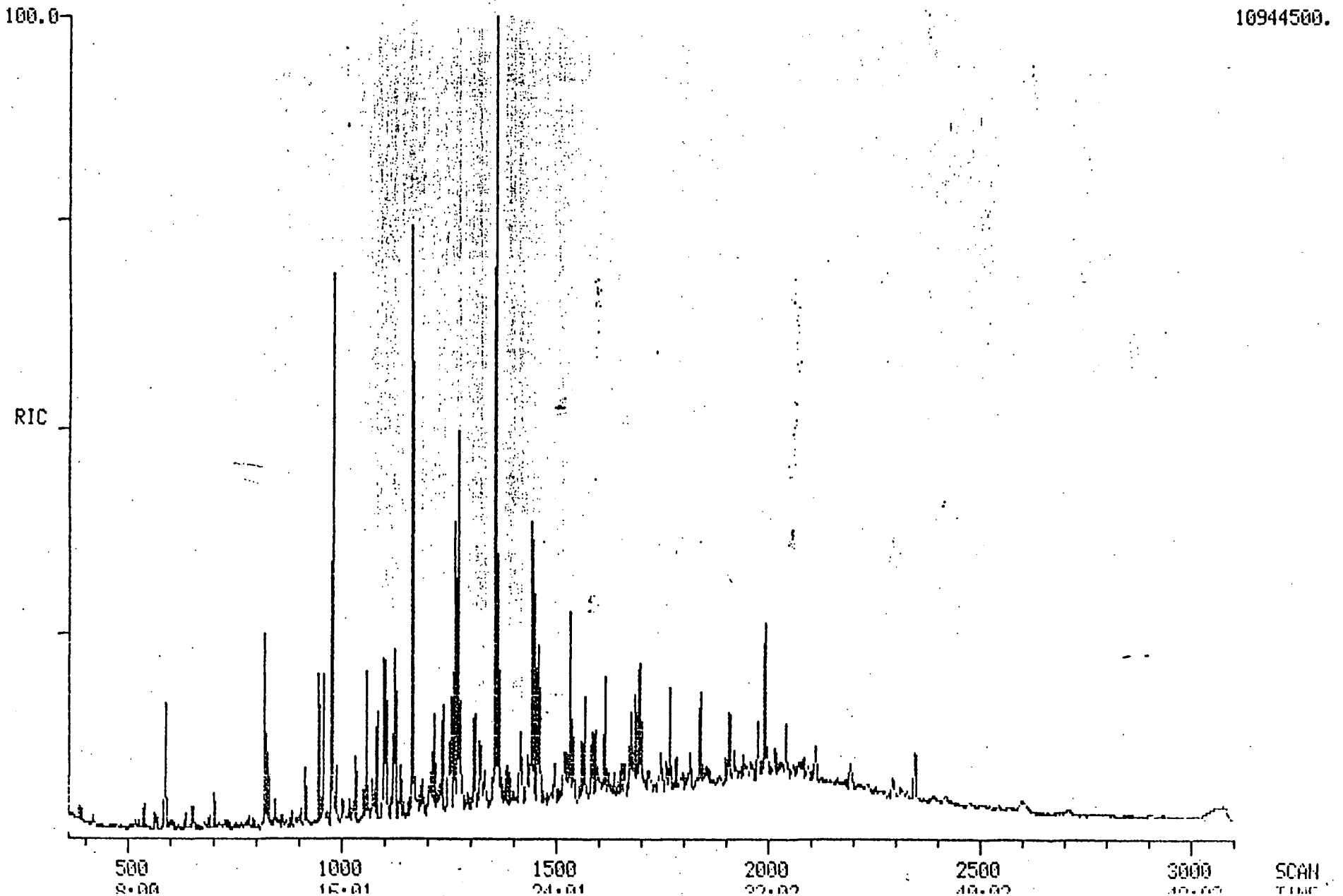
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

MIDRIC
08/26/87 0:43:00
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML;1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558RN6 #1
CALI: 14558RN6 #2

SCANS 360 TO 3100

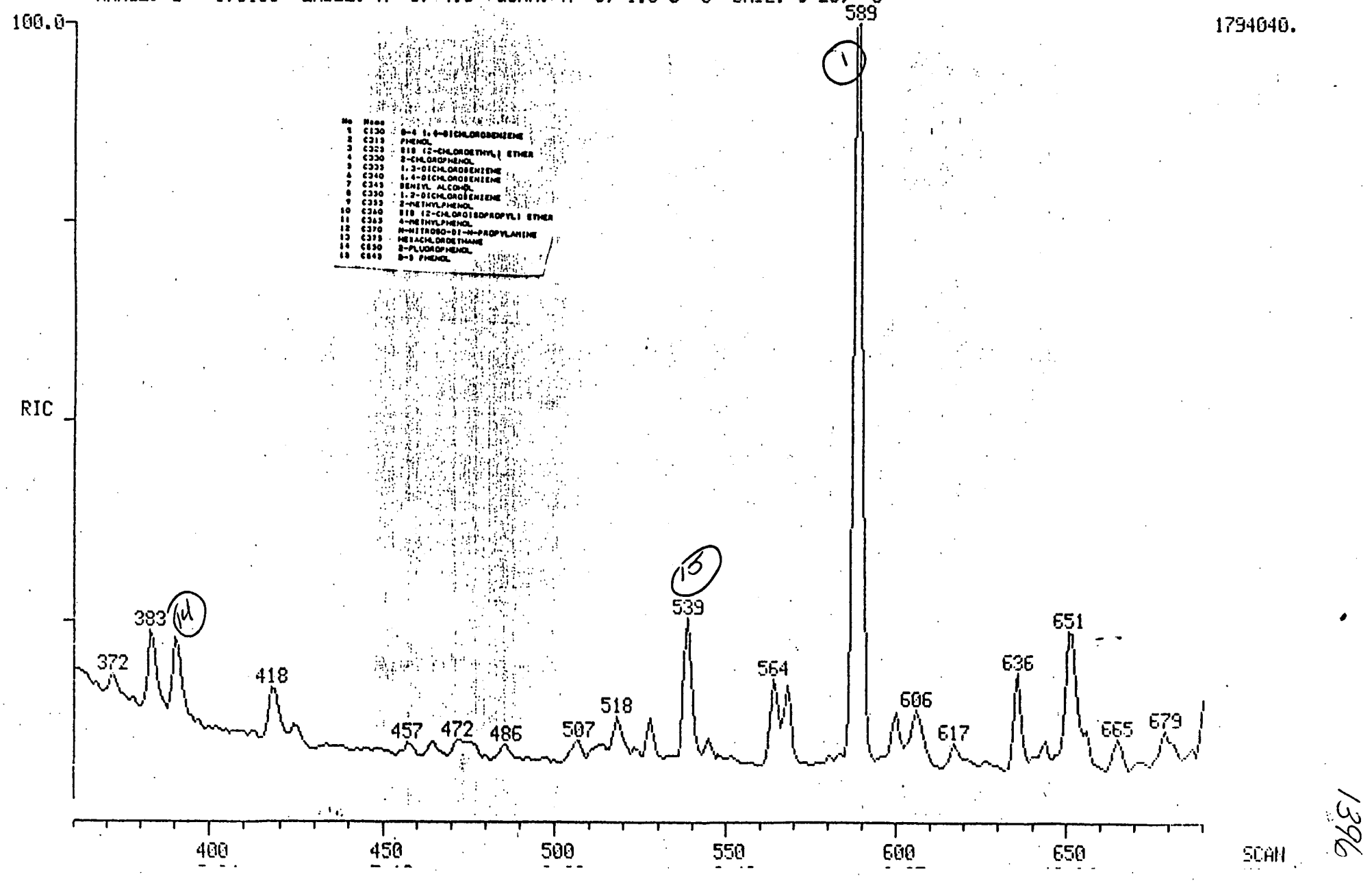


1385

MIDRIC
08/26/87 0:43:00
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558RN6 #1
CALI: 14558RN6 #2

SCANS 360 TO 690



1396

Quantitation Report File: 14558RN6

Data: 14558RN6.TI
08/26/87 0:43:00
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558RN6

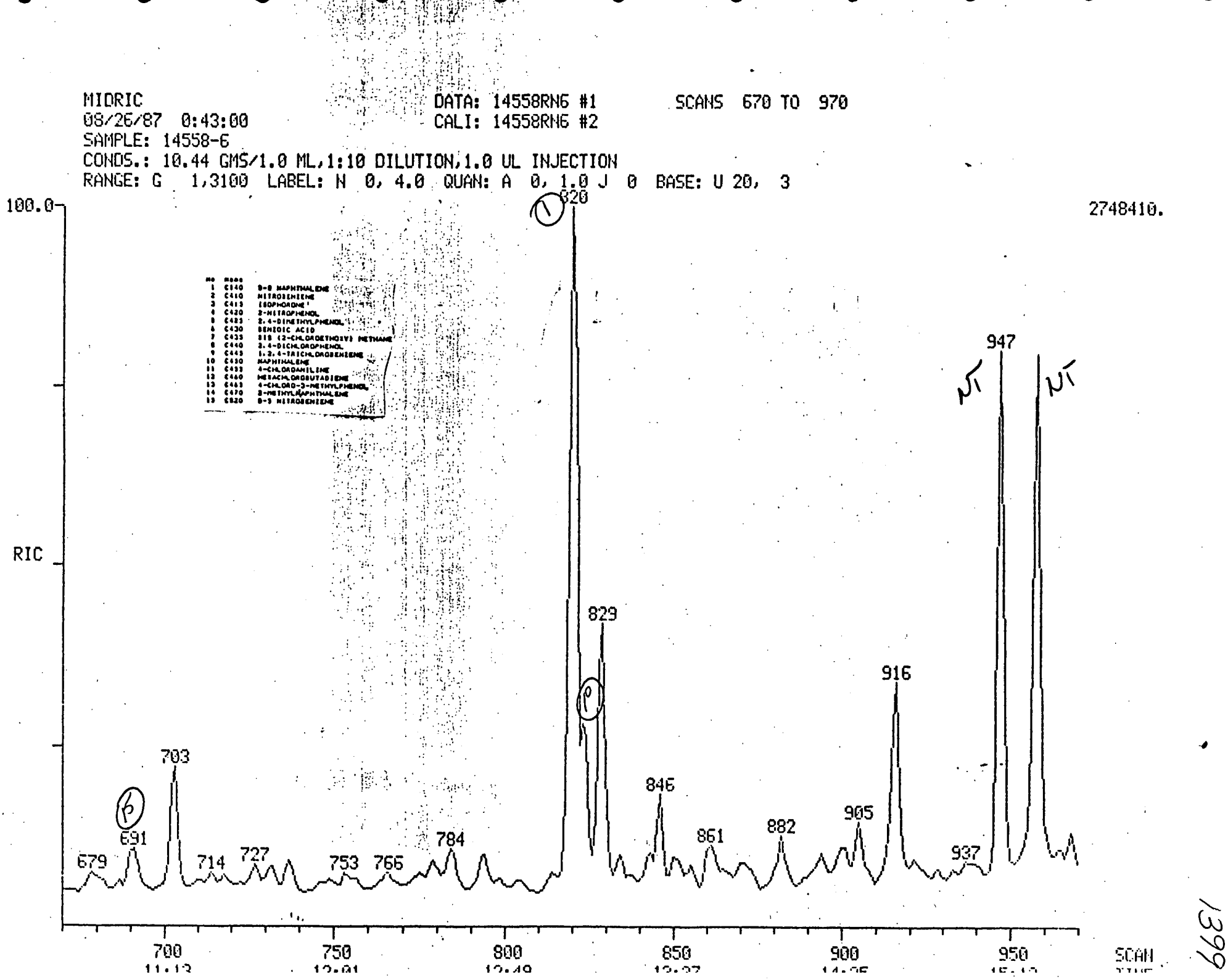
AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name		
1	CI30	D-4 1,4-DICHLOROBENZENE	(INT. STD.)
2	C315	PHENOL	*
3	C325	BIS (2-CHLOROETHYL) ETHER	
4	C330	2-CHLOROPHENOL	
5	C335	1,3-DICHLOROBENZENE	
6	C340	1,4-DICHLOROBENZENE	*
7	C345	BENZYL ALCOHOL	
8	C350	1,2-DICHLOROBENZENE	
9	C355	2-METHYLPHENOL	
10	C360	BIS (2-CHLOROISOPROPYL) ETHER	
11	C365	4-METHYLPHENOL	
12	C370	N-NITROSO-DI-N-PROPYLAMINE	**
13	C375	HEXACHLOROETHANE	
14	CS50	2-FLUOROPHENOL	(SURROGATE)
15	CS45	D-5 PHENOL	(SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	152	588	9:25	1	1.000	A BB	587105.	40.000 NG	69.34	
2	94	533	8:32	1	0.906	A BB	~~2130.~~	~~0.080 NG~~	~~0.16~~	NO QQV
3	93	544	8:43	1	0.925	A VB	~~6026.~~	~~0.213 NG~~	~~0.42~~	NO QQV
4	128	553	8:51	1	0.940	A*BV	~~2982.~~	~~0.109 NG~~	~~0.17~~	NO QQV
5	146	571	9:09	1	0.971	A*BB	~~832.~~	~~0.037 NG~~	~~0.06~~	NO QQV
6	146	588	9:25	1	1.000	A BB	~~640.~~	~~0.029 NG~~	~~0.05~~	NO QQV
7	108	624	10:00	1	1.061	A BB	~~1501.~~	~~0.112 NG~~	~~0.19~~	NO QQV
8	146	625	10:01	1	1.063	A*BB	~~1676.~~	~~0.076 NG~~	~~0.13~~	NO QQV
9	108	644	10:19	1	1.095	A*VV	~~3156.~~	~~0.186 NG~~	~~0.32~~	NO QQV
10	NOT FOUND									
11	108	669	10:43	1	1.138	A*BB	~~2032.~~	~~0.117 NG~~	~~0.20~~	NO QQV
12	70	674	10:48	1	1.146	A BB	~~7712.~~	~~0.276 NG~~	~~0.48~~	NO QQV
13	117	679	10:52	1	1.155	A*VV	~~7111.~~	~~0.796 NG~~	~~1.38~~	NO QQV
14	112	390	6:15	1	0.663	A BB	110479.	6.369 NG	11.04	YES QQV
15	99	539	8:38	1	0.917	A BB	213662.	9.259 NG	16.05	YES QQV

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:40	0.99	0.920	0.99	0.09	50.00	0.003	1.870	0.00
3	8:50	0.99	0.939	0.99	0.24	50.00	0.008	1.691	0.00
4	8:56	0.99	0.949	0.99	0.10	50.00	0.003	1.410	0.00
5	9:18	0.98	0.988	0.98	0.04	50.00	0.001	1.540	0.00
6	9:28	0.99	1.005	0.99	0.03	50.00	0.001	1.555	0.00
7	9:53	1.01	1.049	1.01	0.11	50.00	0.002	0.918	0.00
8	9:59	1.00	1.060	1.00	0.08	50.00	0.002	1.529	0.00
9	10:18	1.00	1.094	1.00	0.19	50.00	0.005	1.265	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	10:21		1.099						
11	10:43	1.00	1.138	1.00	0.12	50.00	0.003	1.356	0.00
12	10:45	1.00	1.141	1.00	0.28	50.00	0.011	1.903	0.01
13	10:51	1.00	1.151	1.00	0.80	50.00	0.012	0.780	0.02
14	6:14	1.00	0.662	1.00	6.37	50.00	0.151	1.182	0.13
15	8:37	1.00	0.915	1.00	9.26	50.00	0.291	1.572	0.19


MIDRIC
08/26/87 0:43:00
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558RN6 #1
CALI: 14558RN6 #2
SCANS 670 TO 970
100.0
2748410.
RIC
SCAN
700
750
800
850
900
950
679
691
703
714
727
753
766
784
820
829
846
861
882
905
916
937
947

Quantitation Report File: 14558RN6

Data: 14558RN6.TI
08/26/87 0:43:00
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558RN6

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

No	Name		
1	C140	D-8 NAPHTHALENE	(INT. STD.)
2	C410	NITROBENZENE	
3	C415	ISOPHORONE	
4	C420	2-NITROPHENOL	*
5	C425	2,4-DIMETHYLPHENOL	
6	C430	BENZOIC ACID	
7	C435	BIS (2-CHLOROETHOXY) METHANE	
8	C440	2,4-DICHLOROPHENOL	*
9	C445	1,2,4-TRICHLOROBENZENE	
10	C450	NAPHTHALENE	
11	C455	4-CHLOROANILINE	
12	C460	HEXACHLOROBUTADIENE	*
13	C465	4-CHLORO-3-METHYLPHENOL	*
14	C470	2-METHYLNAPHTHALENE	
15	CS20	D-5 NITROBENZENE	(SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	136	820	13:08	1	1.000	A BB	2250490.	40.000 NG	74.70	
2	77	700	11:13	1	0.854	A*BB	~~5423~~	~~0.171 NG~~	~~0.32~~	NO QQQ
3	82	737	11:48	1	0.899	A VB	~~11272.~~	~~0.182 NG~~	~~0.34~~	NO QQQ
4	139	757	12:07	1	0.923	A BV	~~1573~~	~~0.141 NG~~	~~0.31~~	NO QQQ
5	122	764	12:14	1	0.932	A*BB	~~768~~	~~0.047 NG~~	~~0.09~~	NO QQQ
6	122	781	12:30	1	0.952	A*VB	~~8276.~~	~~0.282 NG~~	~~0.53~~	NO QQQ
7	93	779	12:29	1	0.950	A*BB	~~11261.~~	~~0.350 NG~~	~~0.65~~	NO QQQ
8	162	803	12:52	1	0.979	A*BB	~~2208~~	~~0.123 NG~~	~~0.23~~	NO QQQ
9	180	805	12:54	1	0.982	A BB	~~394~~	~~0.020 NG~~	~~0.04~~	NO QQQ
10	128	823	13:11	1	1.004	A*BV	485192.	8.452 NG	15.78	YES QQQ
11	127	843	13:30	1	1.028	A*BV	~~1856.~~	~~0.075 NG~~	~~0.14~~	NO QQQ
12	NOT FOUND									
13	107	946	15:09	1	1.154	A VB	~~7535.~~	~~0.372 NG~~	~~0.70~~	NO QQQ
14	NOT FOUND									
15	82	691	11:04	1	0.843	A BB	101628.	3.311 NG	6.18	YES QQQ

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	11:08	1.01	0.848	1.01	0.17	50.00	0.002	0.585	0.00
3	11:48	1.00	0.899	1.00	0.18	50.00	0.004	1.098	0.00
4	12:05	1.00	0.920	1.00	0.16	50.00	0.001	0.170	0.00
5	12:16	1.00	0.934	1.00	0.05	50.00	0.000	0.292	0.00
6	12:36	0.99	0.960	0.99	0.28	50.00	0.001	0.208	0.01
7	12:33	0.99	0.956	0.99	0.35	50.00	0.004	0.573	0.01
8	12:46	1.01	0.972	1.01	0.12	50.00	0.001	0.320	0.00
9	13:01	0.99	0.991	0.99	0.02	50.00	0.000	0.333	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
10	13:11	1.00	1.004	1.00	8.45	50.00	0.172	1.020	0.17
11	13:27	1.00	1.024	1.00	0.07	50.00	0.001	0.441	0.00
12	13:47		1.050						
13	15:01	1.01	1.144	1.01	0.37	50.00	0.003	0.455	0.01
14	15:20		1.167						
15	11:04	1.00	0.843	1.00	3.31	50.00	0.036	0.546	0.07

1402

Quantitation Report File: 14558RN6

Data: 14558RN6.TI
08/26/87 0:43:00
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558RN6

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

No	Name		
1	C140	D-8 NAPHTHALENE	(INT. STD.)
2	C410	NITROBENZENE	
3	C415	ISOPHORONE	
4	C420	2-NITROPHENOL	*
5	C425	2,4-DIMETHYLPHENOL	
6	C430	BENZOIC ACID	
7	C435	BIS (2-CHLOROETHOXY) METHANE	
8	C440	2,4-DICHLOROPHENOL	*
9	C445	1,2,4-TRICHLOROBENZENE	
10	C450	NAPHTHALENE	
11	C455	4-CHLOROANILINE	
12	C460	HEXACHLOROBUTADIENE	*
13	C465	4-CHLORO-3-METHYLPHENOL	*
14	C470	2-METHYLNAPHTHALENE	
15	CS20	D-5 NITROBENZENE	(SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	136	820	13:08	1	1.000	A BB	2250490.	40.000 NG	79.38	
2	77	700	11:13	1	0.854	A*BB	~~5633.~~	~~0.143 NG~~	~~0.32~~	ND ND
3	82	737	11:48	1	0.899	A VB	~~11272.~~	~~0.178 NG~~	~~0.31~~	ND ND
4	139	757	12:07	1	0.923	A BV	~~1579.~~	~~0.111 NG~~	~~0.27~~	ND ND
5	122	764	12:14	1	0.932	A*BB	~~768.~~	~~0.045 NG~~	~~0.08~~	ND ND
6	122	781	12:30	1	0.952	A*VB	~~3276.~~	~~0.284 NG~~	~~0.56~~	ND ND
7	93	779	12:29	1	0.950	A*BB	~~11284.~~	~~0.336 NG~~	~~0.67~~	ND ND
8	162	803	12:52	1	0.979	A*BB	~~2209.~~	~~0.139 NG~~	~~0.24~~	ND NDJ
9	180	805	12:54	1	0.982	A BB	~~834.~~	~~0.029 NG~~	~~0.04~~	ND ND
10	128	823	13:11	1	1.004	A*BV	485192.	8.199 NG	16.27	YES QQ
11	127	843	13:30	1	1.028	A*BV	~~1856.~~	~~0.070 NG~~	~~0.14~~	ND ND
12	NOT FOUND									
13	107	946	15:09	1	1.154	A VB	~~7526.~~	~~0.333 NG~~	~~0.66~~	ND ND
14	NOT FOUND									
15	82	684	10:57	1	0.834	A*VV	16542.	0.503 NG	1.00	YES ND

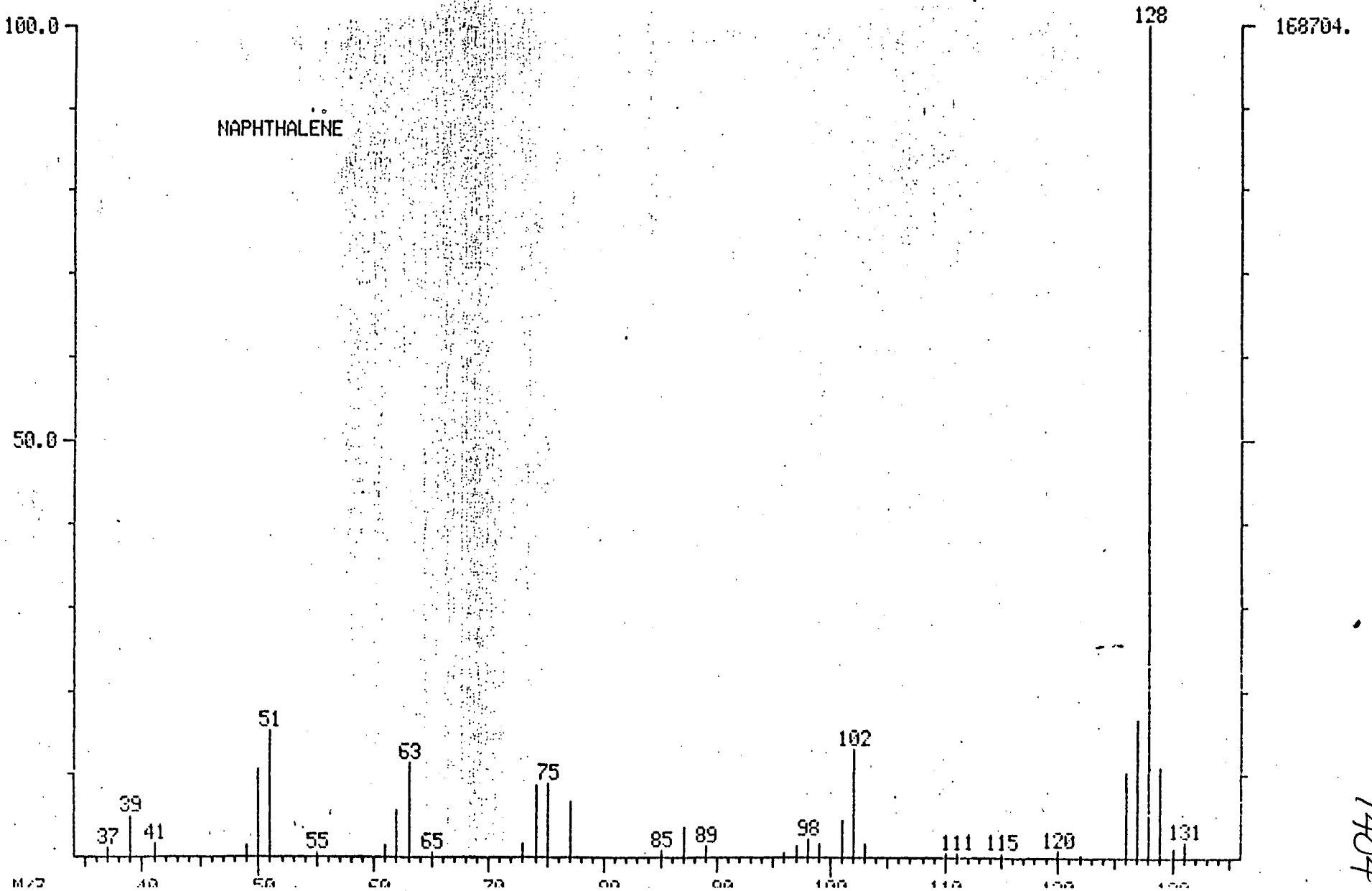
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	11:07	1.01	0.846	1.01	0.16	50.00	0.002	0.616	0.00
3	11:49	1.00	0.900	1.00	0.17	50.00	0.004	1.157	0.00
4	12:04	1.01	0.918	1.01	0.14	50.00	0.001	0.194	0.00
5	12:16	1.00	0.934	1.00	0.05	50.00	0.000	0.303	0.00
6	12:38	0.99	0.962	0.99	0.23	50.00	0.001	0.206	0.01
7	12:33	0.99	0.956	0.99	0.34	50.00	0.004	0.597	0.01
8	12:47	1.01	0.973	1.01	0.12	50.00	0.001	0.326	0.00
9	13:01	0.99	0.991	0.99	0.02	50.00	0.000	0.349	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
10	13:12	1.00	1.005	1.00	8.20	50.00	0.172	1.052	0.16
11	13:27	1.00	1.024	1.00	0.07	50.00	0.001	0.473	0.00
12	13:47		1.050						
13	15:02	1.01	1.145	1.01	0.33	50.00	0.003	0.509	0.01
14	15:20		1.167						
15	11:04	0.99	0.843	0.99	0.50	50.00	0.006	0.585	0.01

MID MASS SPECTRUM
08/26/87 0:43:00 + 13:11
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 131 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #823
CALI: 14558RN6 #2

BASE M/Z: 128
RIC: 432128.

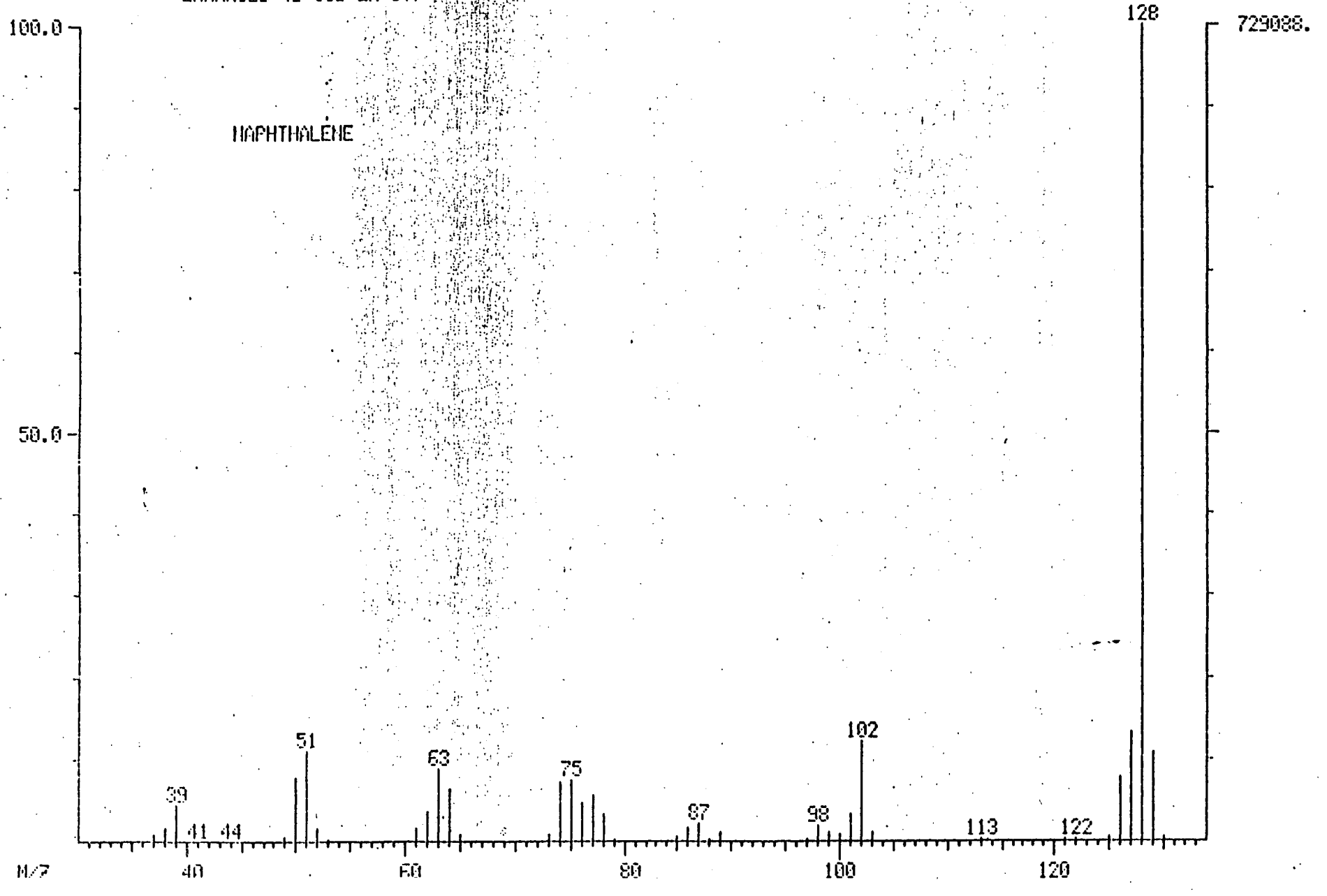


1404

MID MASS SPECTRUM
03/17/87 17:10:00 + 16:02
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 153 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #999
CALI: HSC50317 #2

BASE M/Z: 128
RIC: 1744890.

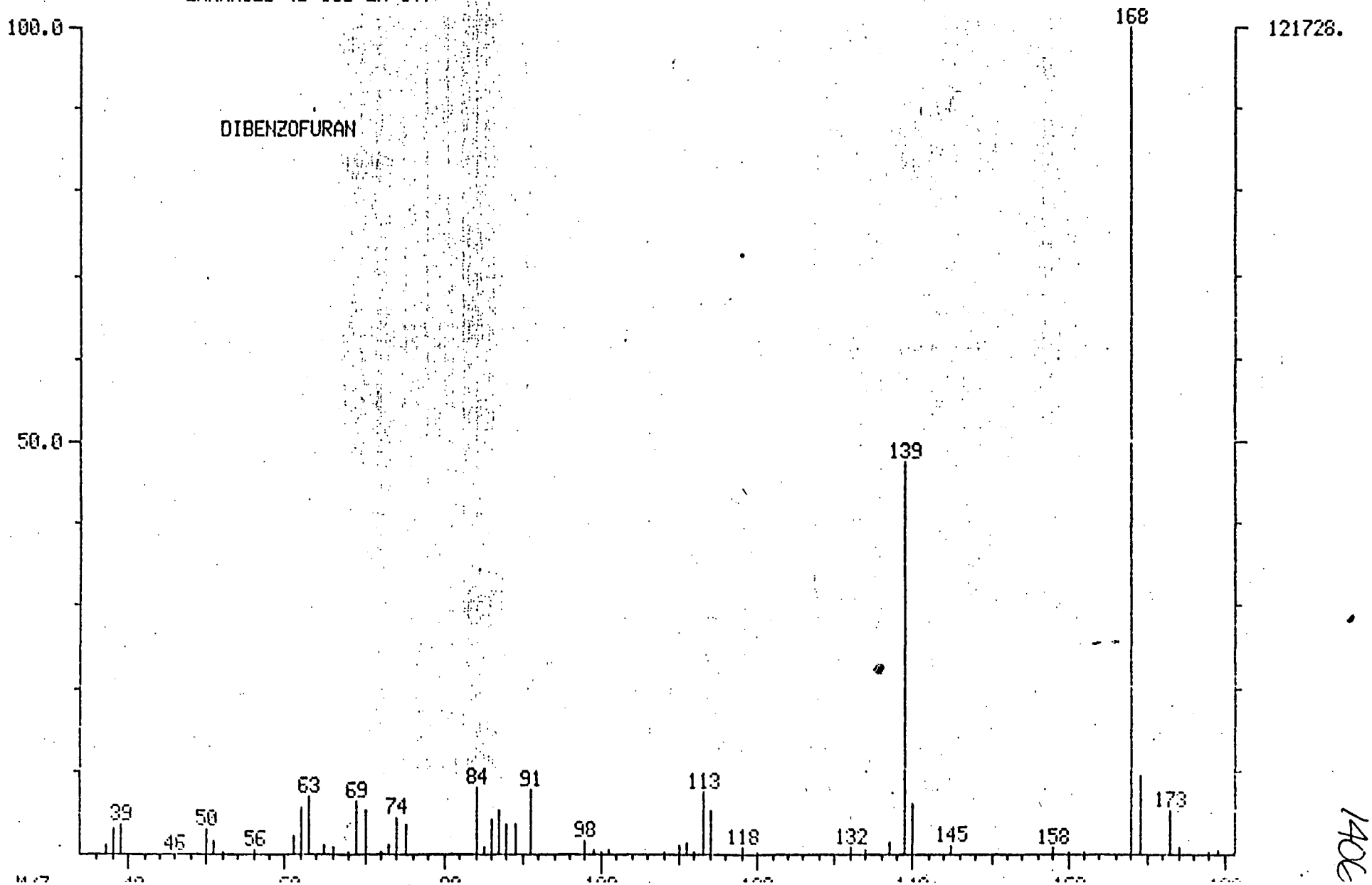


1405

MID MASS SPECTRUM
08/26/87 0:43:00 + 19:16
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 179 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1203
CALI: 14558RN6 #2

BASE M/Z: 168
RIC: 345088.

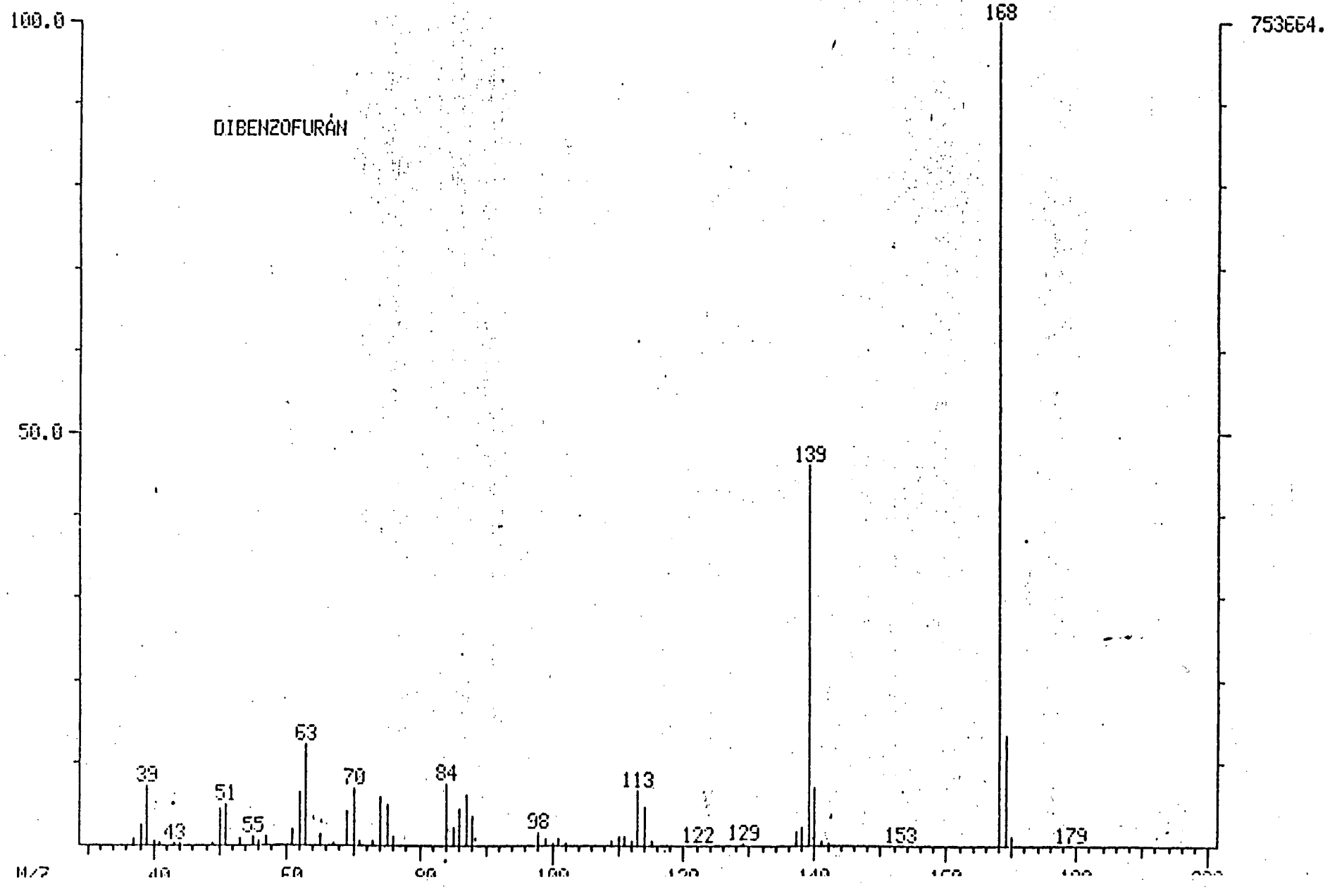


1406

MID MASS SPECTRUM
03/17/87 17:10:00 + 22:25
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 205 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1396
CALI: HSC50317 #2

BASE M/Z: 168
RIC: 2174970.

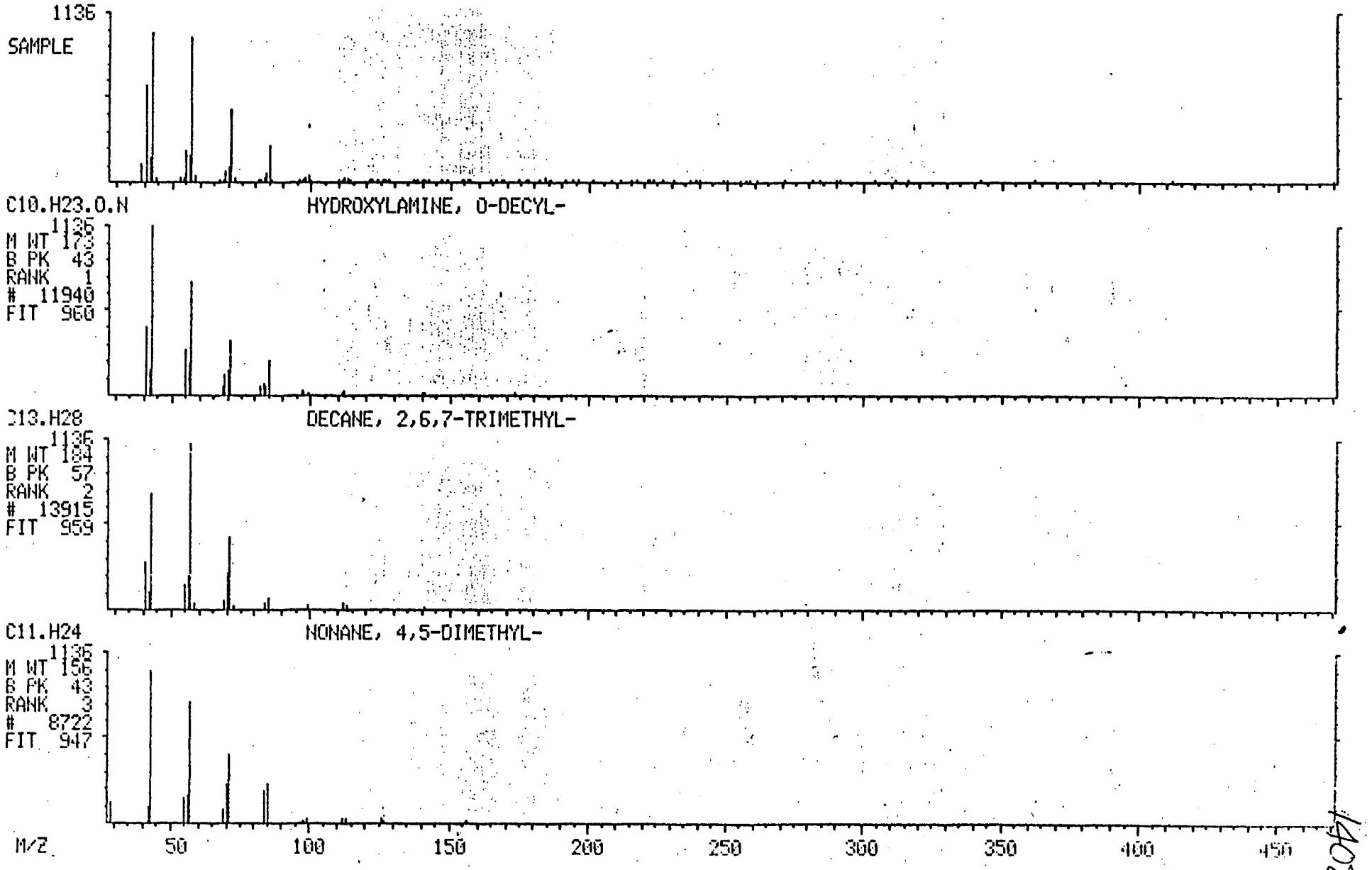


140

MID LIBRARY SEARCH
08/26/87 0:43:00 + 15:10
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 # 947
CALI: 14558RN6 # 2

BASE M/Z: 43
RIC: 1701880.



2041

MID Library Search Data: 14558RN6 # 947 Base m/z: 43
08/26/87 0:43:00 + 15:10 Cali: 14558RN6 # 2 RIC: 1701880.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	11940	HYDROXYLAMINE, O-DECYL-
2	13915	DECANE, 2,6,7-TRIMETHYL-
3	8722	NONANE, 4,5-DIMETHYL-
4	13874	UNDECANE, 2,7-DIMETHYL-
5	6090	HEXANE, 2,2,3,3-TETRAMETHYL-

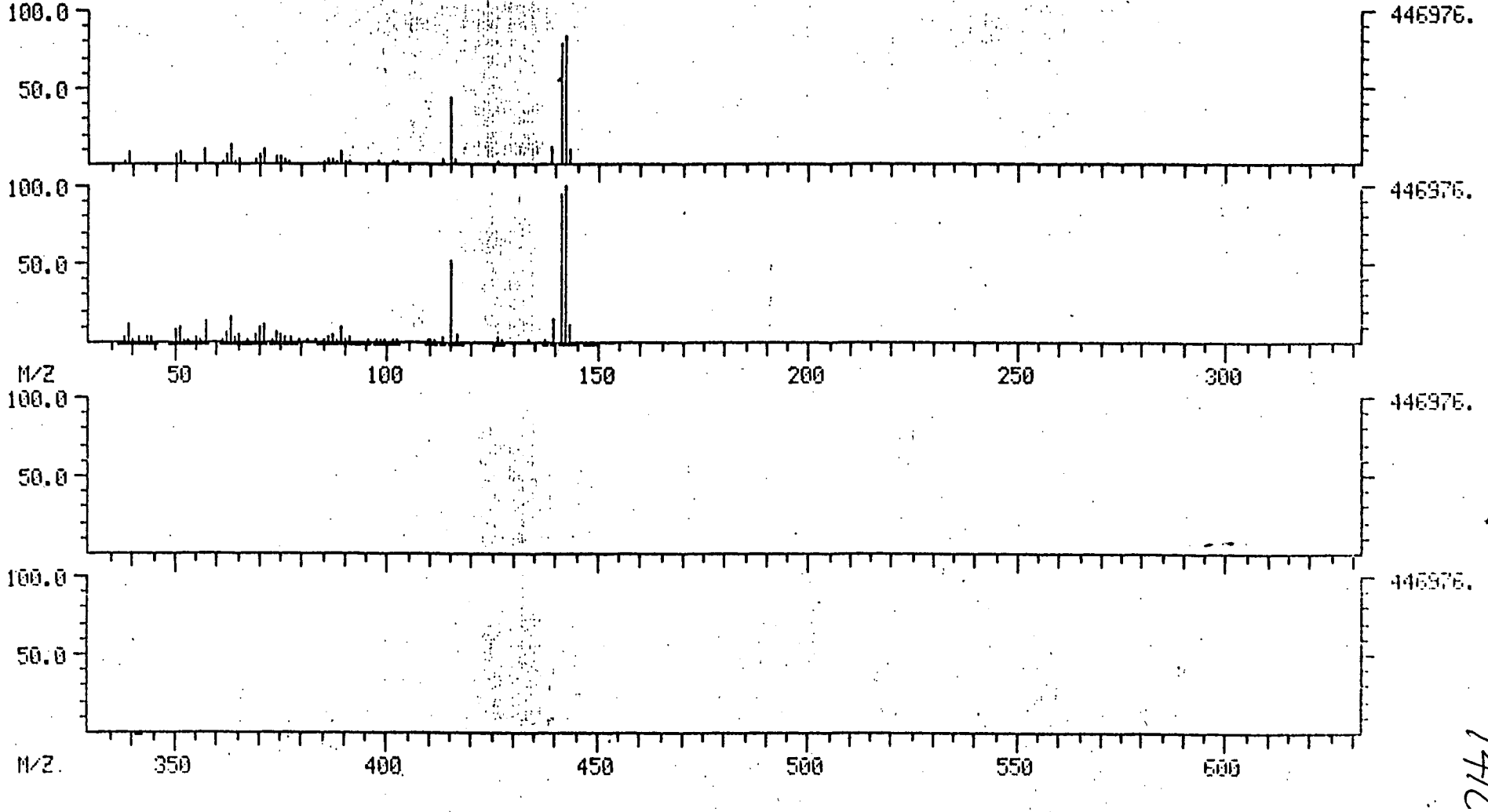
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H23.O.N	173	43	819	960	822
2	C13.H28	184	57	817	959	817
3	C11.H24	156	43	726	947	738
4	C13.H28	184	43	802	944	822
5	C10.H22	142	57	780	943	780

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	29812-79-1
2	———	———	———	———	62108-25-2
3	———	———	———	———	17302-23-7
4	———	———	———	———	17301-24-5
5	———	———	———	———	13475-81-5

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 15:21
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 148 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #958
CALI: 14558RN6 #2

BASE M/Z: 142/ 142
RIC: 1652730./ 2170870.

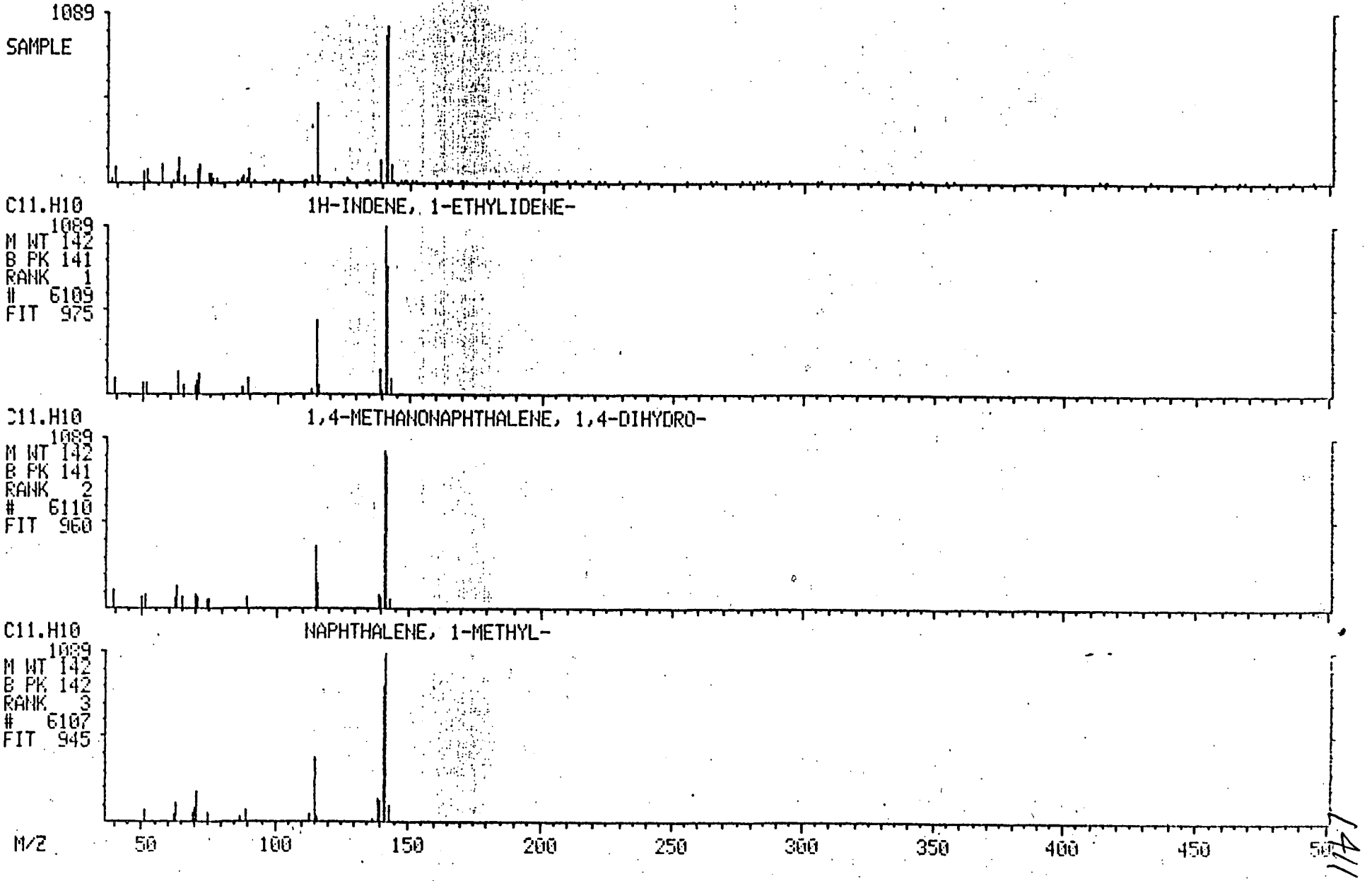


14/0

MID LIBRARY SEARCH
08/26/87 0:43:00 + 15:21
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 # 958
CALI: 14558RN6 # 2

BASE M/Z: 142
RIC: 1585150.



1411

MID Library Search Data: 14558RN6 # 958 Base m/z: 142
08/26/87 0:43:00 + 15:21 Cali: 14558RN6 # 2 RIC: 1585150.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	6109	1H-INDENE, 1-ETHYLIDENE-
2	6110	1,4-METHANONAPHTHALENE, 1,4-DIHYDRO-
3	6107	NAPHTHALENE, 1-METHYL-
4	6108	NAPHTHALENE, 2-METHYL-
5	6416	3,5-PYRIDINEDICARBONITRILE, 4-METHYL-

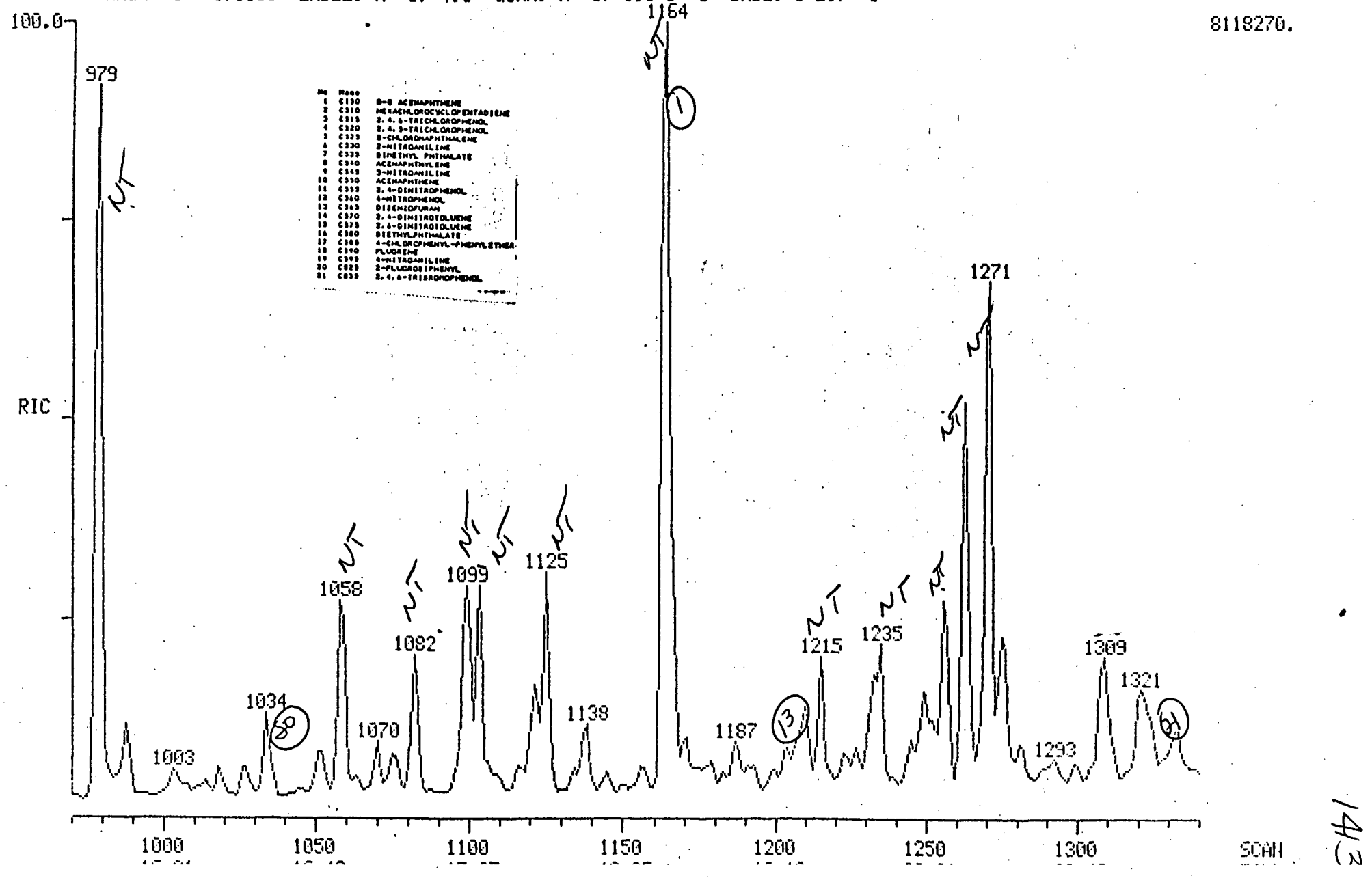
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H10	142	141	865	975	881
2	C11.H10	142	141	859	960	879
3	C11.H10	142	142	835	945	879
4	C11.H10	142	142	811	929	870
5	C8.H5.N3	143	143	119	870	128

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	2471-83-2
2	___	___	___	___	4453-90-1
3	___	___	___	___	90-12-0
4	___	___	___	___	91-57-6
5	___	___	___	___	4574-75-8

MIDRIC
08/26/87 0:43:00
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558RN6 #1
CALI: 14558RN6 #2

SCANS 970 TO 1340



No	Mass	
1	C130	D-8 ACENAPHTHENE
2	C310	HEXACHLOROCYCLOPENTADIENE
3	C315	2,4,6-TRICHLOROPHENOL
4	C320	2,4,5-TRICHLOROPHENOL
5	C323	2-CHLORONAPHTHALENE
6	C330	2-NITROANILINE
7	C333	DIMETHYL PHTHALATE
8	C340	ACENAPHTHYLENE
9	C343	3-NITROANILINE
10	C350	ACENAPHTHENE
11	C355	2,4-DINITROPHENOL
12	C360	4-NITROPHENOL
13	C365	DIBENZOFURAN
14	C370	2,6-DINITROTOLUENE
15	C375	2,4-DINITROTOLUENE
16	C380	DIETHYLPHTHALATE
17	C383	4-CHLOROPHENYL-PHENYLETHER
18	C390	FLUORENE
19	C393	4-NITROANILINE
20	C403	2-FLUOROBIPHENYL
21	C410	2,4,6-TRIBROMOPHENOL

1432

Quantitation Report File: 14558RN6

Data: 14558RN6.TI
08/26/87 0:43:00
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558RN6

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

No	Name		
1	C150	D-8 ACENAPHTHENE	(INT. STD.)
2	C510	HEXACHLOROCYCLOPENTADIENE	**
3	C515	2,4,6-TRICHLOROPHENOL	*
4	C520	2,4,5-TRICHLOROPHENOL	
5	C525	2-CHLORONAPHTHALENE	
6	C530	2-NITROANILINE	
7	C535	DIMETHYL PHTHALATE	
8	C540	ACENAPHTHYLENE	
9	C545	3-NITROANILINE	
10	C550	ACENAPHTHENE	*
11	C555	2,4-DINITROPHENOL	**
12	C560	4-NITROPHENOL	**
13	C565	DIBENZOFURAN	
14	C570	2,4-DINITROTOLUENE	
15	C543	2,6-DINITROTOLUENE	
16	C580	DIETHYLPHTHALATE	
17	C585	4-CHLOROPHENYL-PHENYLETHER	
18	C590	FLUORENE	
19	C595	4-NITROANILINE	
20	CS25	2-FLUOROBIPHENYL	(SURROGATE)
21	CS55	2,4,6-TRIBROMOPHENOL	(SURROGATE)

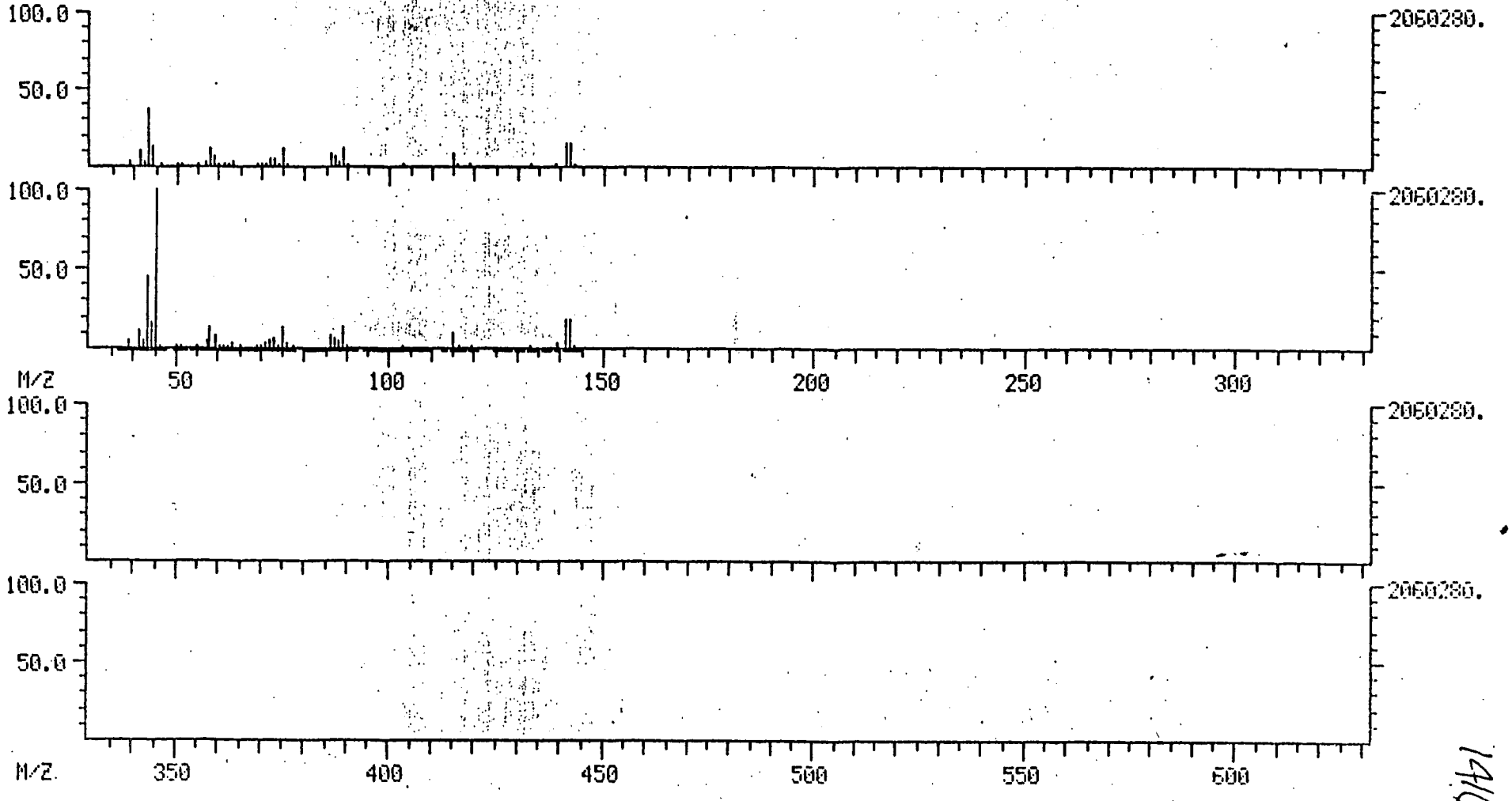
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	164	1166	18:40	1	1.000	A BB	1292840.	40.000 NG	42.55	
2	NOT FOUND									
3	196	1023	16:23	1	0.877	A*BV	~~800.~~	~~0.064 NG~~	~~0.07~~ NO	OOJ
4	196	1027	16:27	1	0.881	A*BB	~~1212.~~	~~0.101 NG~~	~~0.11~~ NO	OOJ
5	162	1053	16:52	1	0.903	A BB	~~688.~~	~~0.017 NG~~	~~0.02~~ NO	OOJ
6	65	1082	17:20	1	0.928	A VB	~~26157.~~	~~1.126 NG~~	~~1.21~~ NO	OOJ
7	163	1144	18:19	1	0.981	A BV	~~3534.~~	~~0.072 NG~~	~~0.08~~ NO	OOJ
8	152	1137	18:13	1	0.975	A BB	~~64962.~~	~~1.123 NG~~	~~1.19~~ NO	OOJ
9	NOT FOUND									
10	153	1179	18:53	1	1.011	A*VV	~~28912.~~	~~0.731 NG~~	~~0.78~~ NO	OOJ
11	NOT FOUND									
12	139	1203	19:16	1	1.032	A BV	~~243206.~~	~~31.551 NG~~	~~33.56~~ NO	OOJ
13	168	1203	19:16	1	1.032	A BB	434744.	7.642 NG	8.13 YES	OOJ
14	89	1215	19:27	1	1.042	A*VB	~~21858.~~	~~1.368 NG~~	~~1.46~~ NO	OOJ
15	165	1136	18:12	1	0.974	A*BV	~~3491.~~	~~0.325 NG~~	~~0.35~~ NO	OOJ
16	149	1268	20:18	1	1.087	A BB	~~49137.~~	~~0.899 NG~~	~~0.96~~ NO	OOJ
17	204	1272	20:22	1	1.091	A*BB	~~2176.~~	~~0.102 NG~~	~~0.11~~ NO	OOJ
18	166	1272	20:22	1	1.091	A VB	~~69114.~~	~~1.837 NG~~	~~1.95~~ NO	OOJ
19	138	1280	20:30	1	1.098	A*BB	~~4032.~~	~~0.462 NG~~	~~0.49~~ NO	OOJ
20	172	1035	16:35	1	0.888	A BV	165920.	4.522 NG	4.81 YES	OOJ
21	330	1324	21:12	1	1.136	A BB	12640.	2.050 NG	2.18 YES	OOJ

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:04		0.860						
3	16:20	1.00	0.875	1.00	0.07	50.00	0.000	0.376	0.00
4	16:27	1.00	0.881	1.00	0.10	50.00	0.001	0.403	0.00
5	16:51	1.00	0.902	1.00	0.02	50.00	0.000	1.110	0.00
6	17:19	1.00	0.927	1.00	1.14	50.00	0.016	0.721	0.02
7	18:03	1.02	0.967	1.02	0.07	50.00	0.002	1.518	0.00
8	18:11	1.00	0.973	1.00	1.12	50.00	0.040	1.790	0.02
9	18:38		0.998						
10	18:46	1.01	1.005	1.01	0.73	50.00	0.018	1.224	0.01
11	18:58		1.015						
12	19:15	1.00	1.031	1.00	31.55	50.00	0.150	0.238	0.63
13	19:17	1.00	1.033	1.00	7.64	50.00	0.269	1.760	0.15
14	19:27	1.00	1.042	1.00	1.37	50.00	0.014	0.494	0.03
15	18:14	1.00	0.977	1.00	0.32	50.00	0.002	0.333	0.01
16	20:18	1.00	1.087	1.00	0.90	50.00	0.030	1.692	0.02
17	20:26	1.00	1.094	1.00	0.10	50.00	0.001	0.661	0.00
18	20:22	1.00	1.091	1.00	1.84	50.00	0.050	1.355	0.04
19	20:36	1.00	1.103	1.00	0.46	50.00	0.002	0.270	0.01
20	16:35	1.00	0.889	1.00	4.52	50.00	0.103	1.135	0.09
21	21:13	1.00	1.136	1.00	2.05	50.00	0.008	0.191	0.04

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 15:41
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 151 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #979
CALI: 14558RN6 #2

BASE M/Z: 43/ 45
RIC: 4382710./ 7413750.

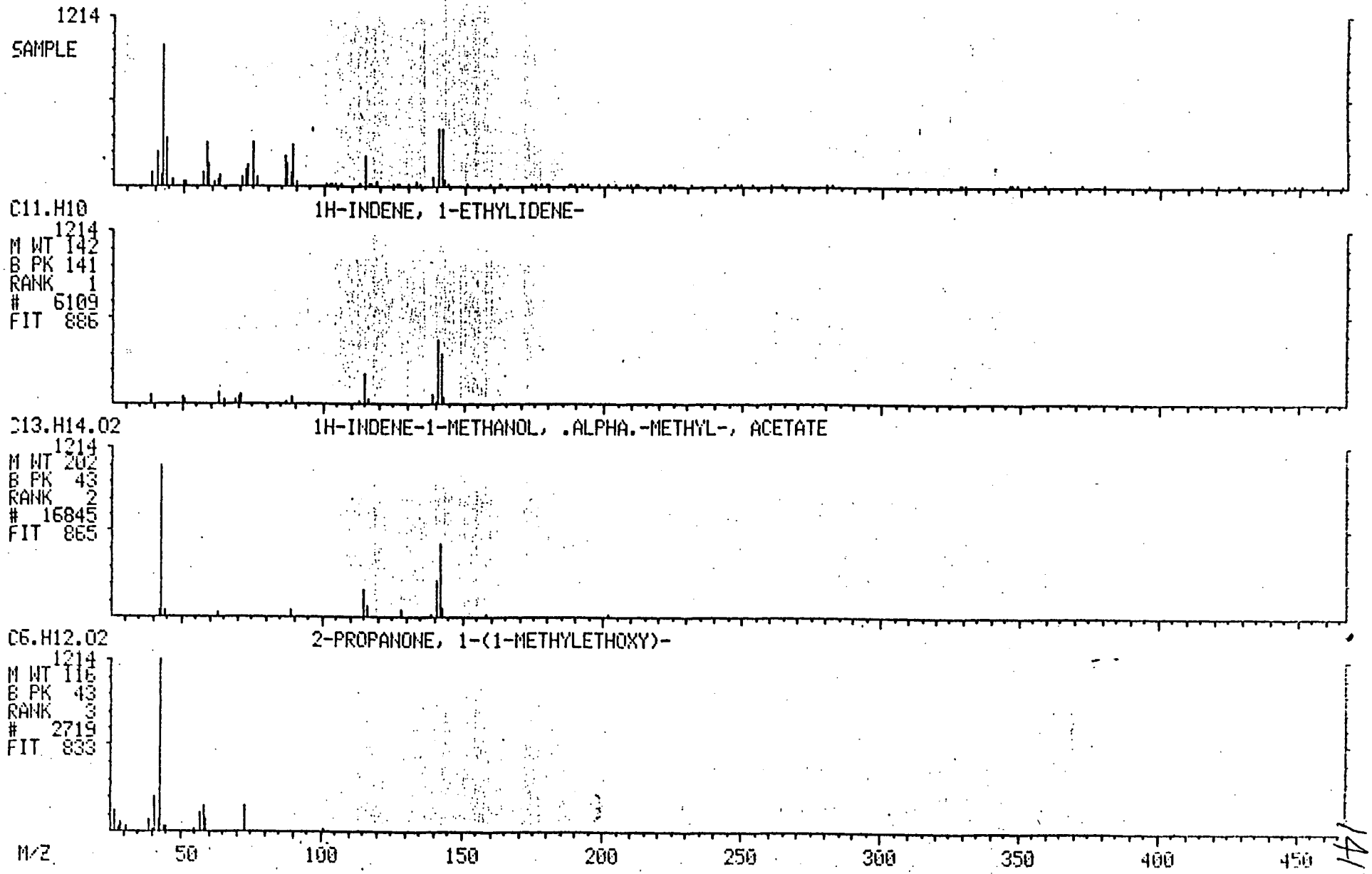


1416

MID LIBRARY SEARCH
08/26/87 0:43:00 + 15:41
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 # 979
CALI: 14558RN6 # 2

BASE M/Z: 43
RIC: 4108280.



1417

MID Library Search Data: 14558RN6 # 979 Base m/z: 43
08/26/87 0:43:00 + 15:41 Cali: 14558RN6 # 2 RIC: 4108280.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	6109	1H-INDENE, 1-ETHYLIDENE-
2	16845	1H-INDENE-1-METHANOL, .ALPHA.-METHYL-, ACETATE
3	2719	2-PROPANONE, 1-(1-METHYLETHOXY)-
4	1408	BUTANAMIDE, N-METHYL-
5	4365	1,3-DIOXOLANE, 2,2,4,5-TETRAMETHYL-, CIS-

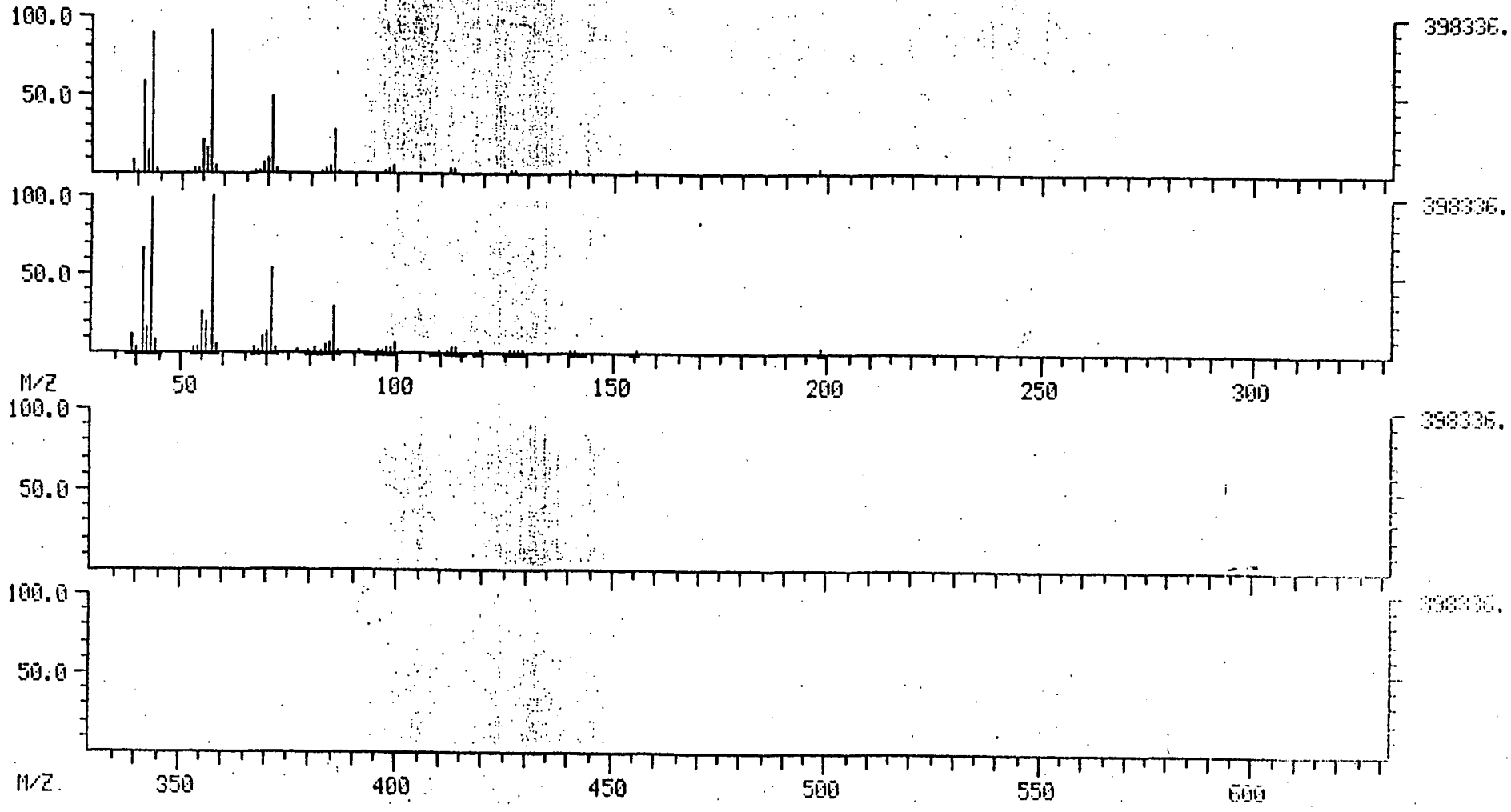
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C11.H10	142	141	451	886	474
2	C13.H14.O2	202	43	508	865	528
3	C6.H12.O2	116	43	237	833	263
4	C5.H11.O.N	101	43	223	828	228
5	C7.H14.O2	130	43	325	819	364

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	2471-83-2
2	___	___	___	___	63839-85-0
3	___	___	___	___	42781-12-4
4	___	___	___	___	17794-44-4
5	___	___	___	___	17226-65-2

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 16:57
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 161 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1058
CALI: 14558RN6 #2

BASE M/Z: 57/ 57
RIC: 1802230./ 2195450.

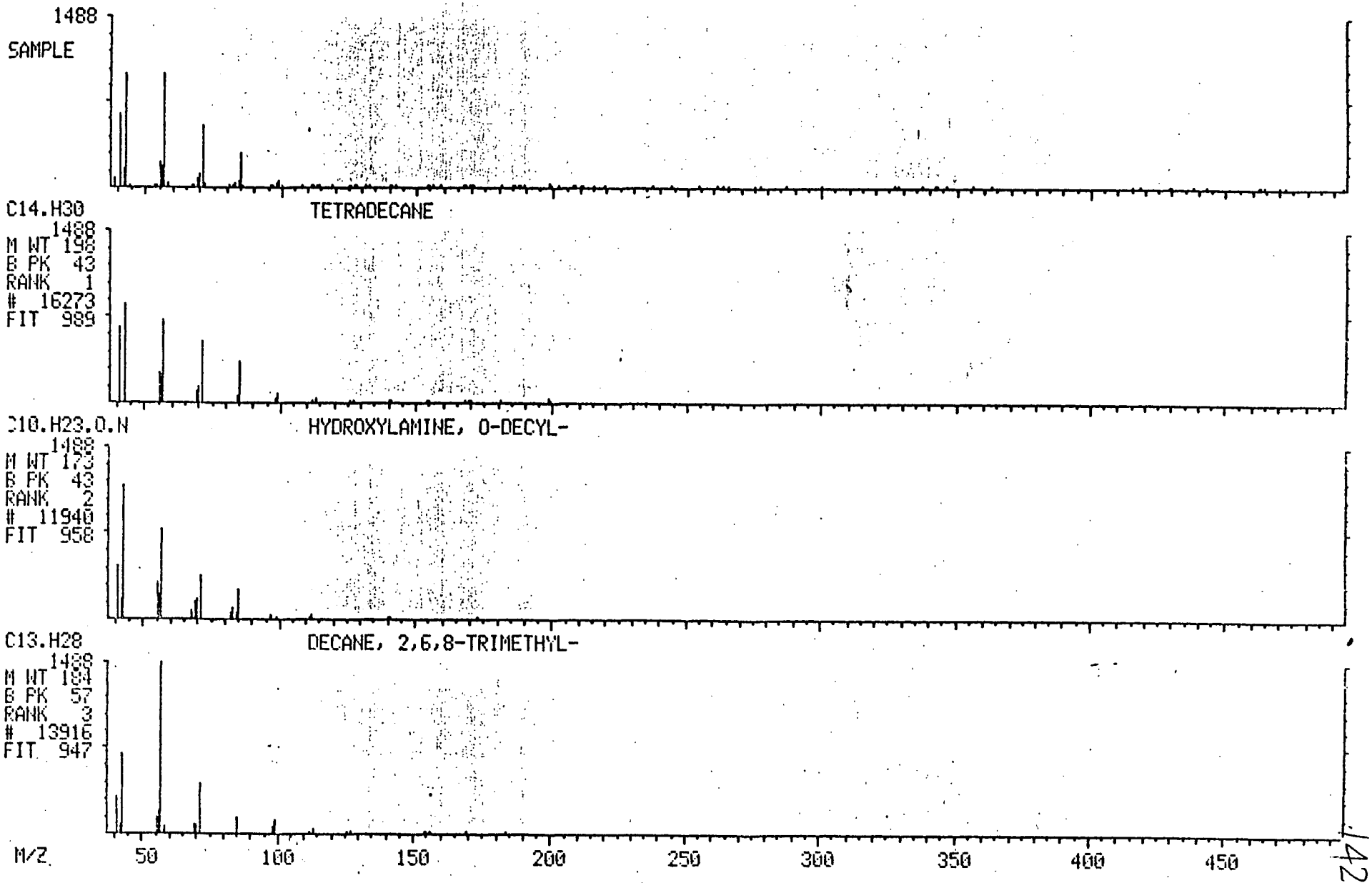


1419

MID LIBRARY SEARCH
08/26/87 0:43:00 + 16:57
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1058
CALI: 14558RN6 # 2

BASE M/Z: 57
RIC: 1785850.



1420

MID Library Search Data: 14558RN6 #1058 Base m/z: 57
08/26/87 0:43:00 + 16:57 Cali: 14558RN6 # 2 RIC: 1785850.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	16273	TETRADECANE
2	11940	HYDROXYLAMINE, O-DECYL-
3	13916	DECANE, 2,6,8-TRIMETHYL-
4	18538	DODECANE, 2,6,11-TRIMETHYL-
5	8722	NONANE, 4,5-DIMETHYL-

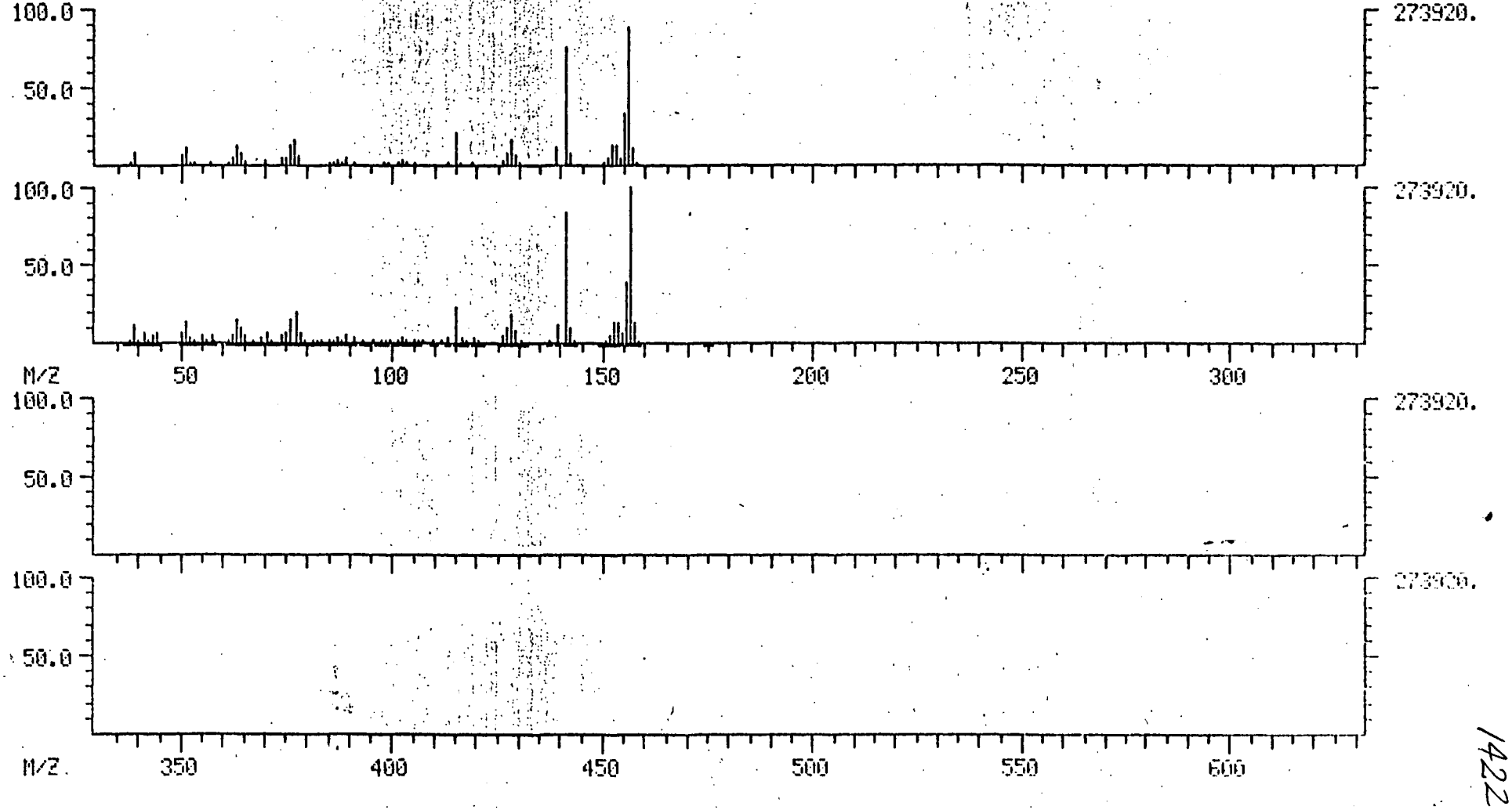
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H30	198	43	864	989	864
2	C10.H23.O.N	173	43	810	958	812
3	C13.H28	184	57	805	947	809
4	C15.H32	212	57	786	945	811
5	C11.H24	156	43	717	945	728

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	629-59-4
2	___	___	___	___	29812-79-1
3	___	___	___	___	62108-26-3
4	___	___	___	___	31295-56-4
5	___	___	___	___	17302-23-7

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 17:20
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 164 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1082
CALI: 14558RN6 #2

BASE M/Z: 156/ 156
RIC: 1290230./ 1683450.

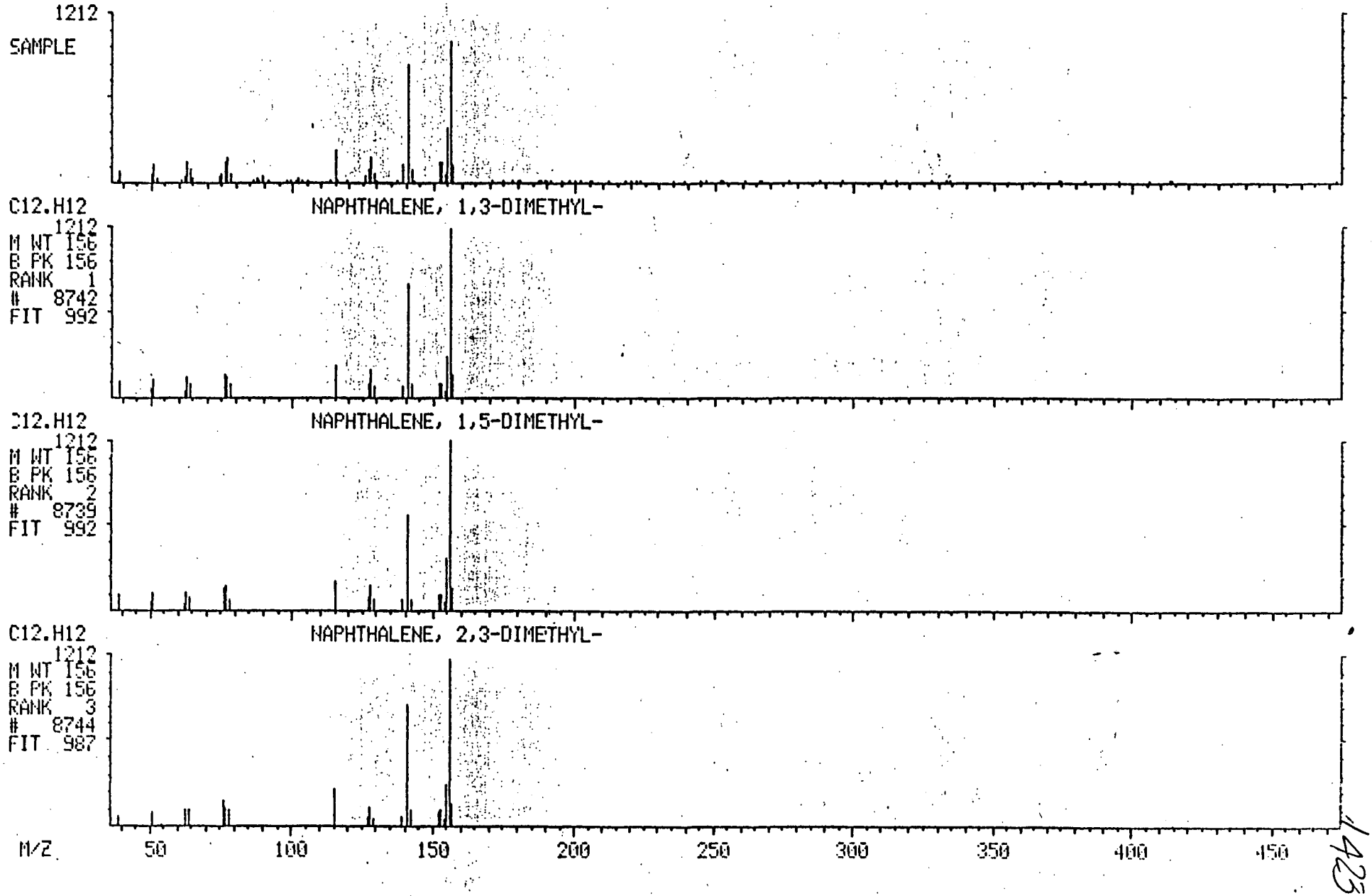


1422

MID LIBRARY SEARCH
08/26/87 0:43:00 + 17:20
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1082
CALI: 14558RN6 # 2

BASE M/Z: 156
RIC: 1226750.



MID Library Search Data: 14558RN6 #1082 Base m/z: 156
08/26/87 0:43:00 + 17:20 Cali: 14558RN6 # 2 RIC: 1226750.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	8742	NAPHTHALENE, 1,3-DIMETHYL-
2	8739	NAPHTHALENE, 1,5-DIMETHYL-
3	8744	NAPHTHALENE, 2,3-DIMETHYL-
4	8746	NAPHTHALENE, 2,7-DIMETHYL-
5	8741	NAPHTHALENE, 1,7-DIMETHYL-

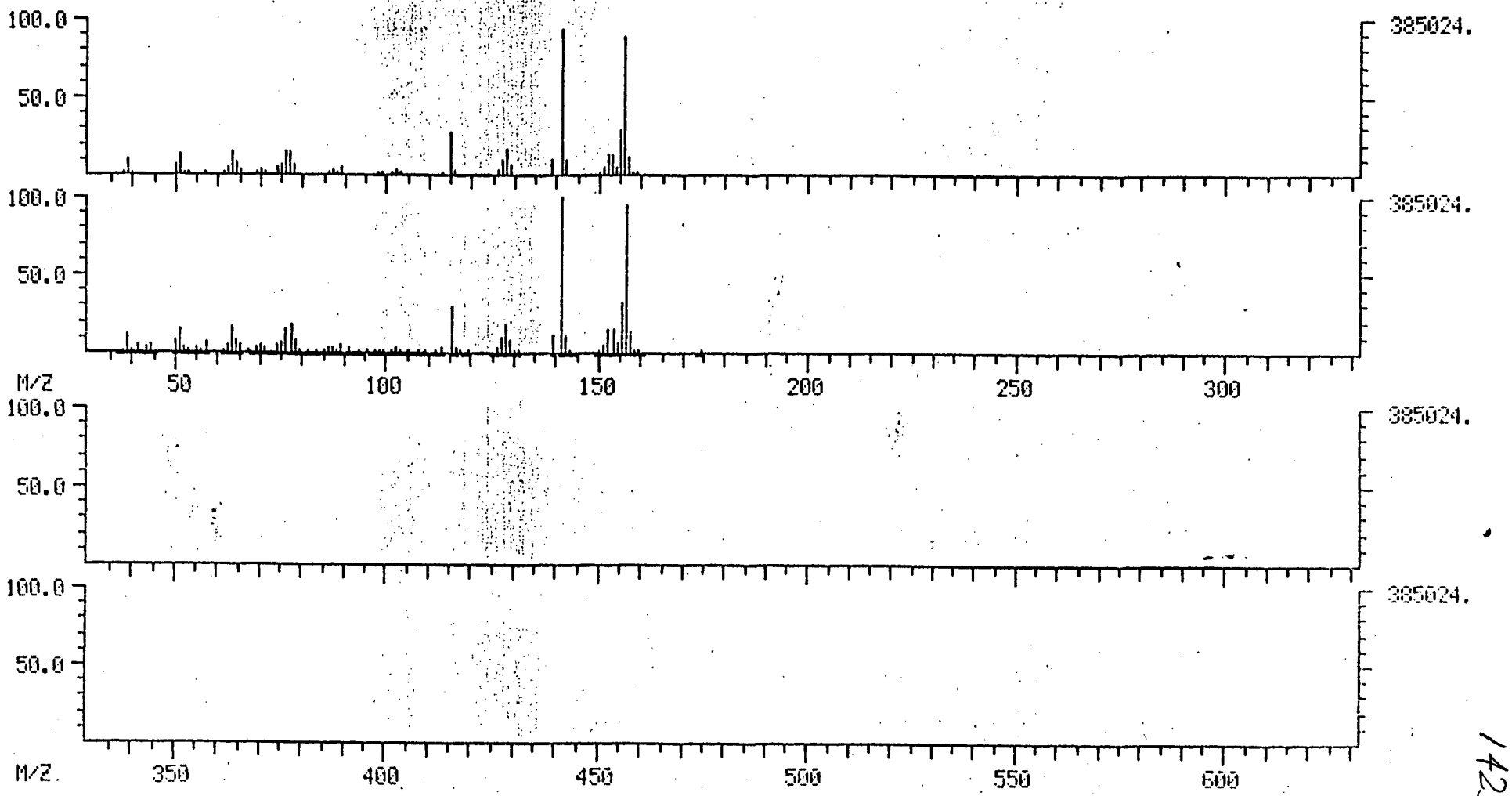
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H12	156	156	903	992	903
2	C12.H12	156	156	904	992	904
3	C12.H12	156	156	889	987	889
4	C12.H12	156	156	899	987	899
5	C12.H12	156	156	888	985	897

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	575-41-7
2	———	———	———	———	571-61-9
3	———	———	———	———	581-40-8
4	———	———	———	———	582-16-1
5	———	———	———	———	575-37-1

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 17:36
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 166 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1099
CALI: 14558RN6 #2

BASE M/Z: 141/ 141
RIC: 1937400./ 2371580.

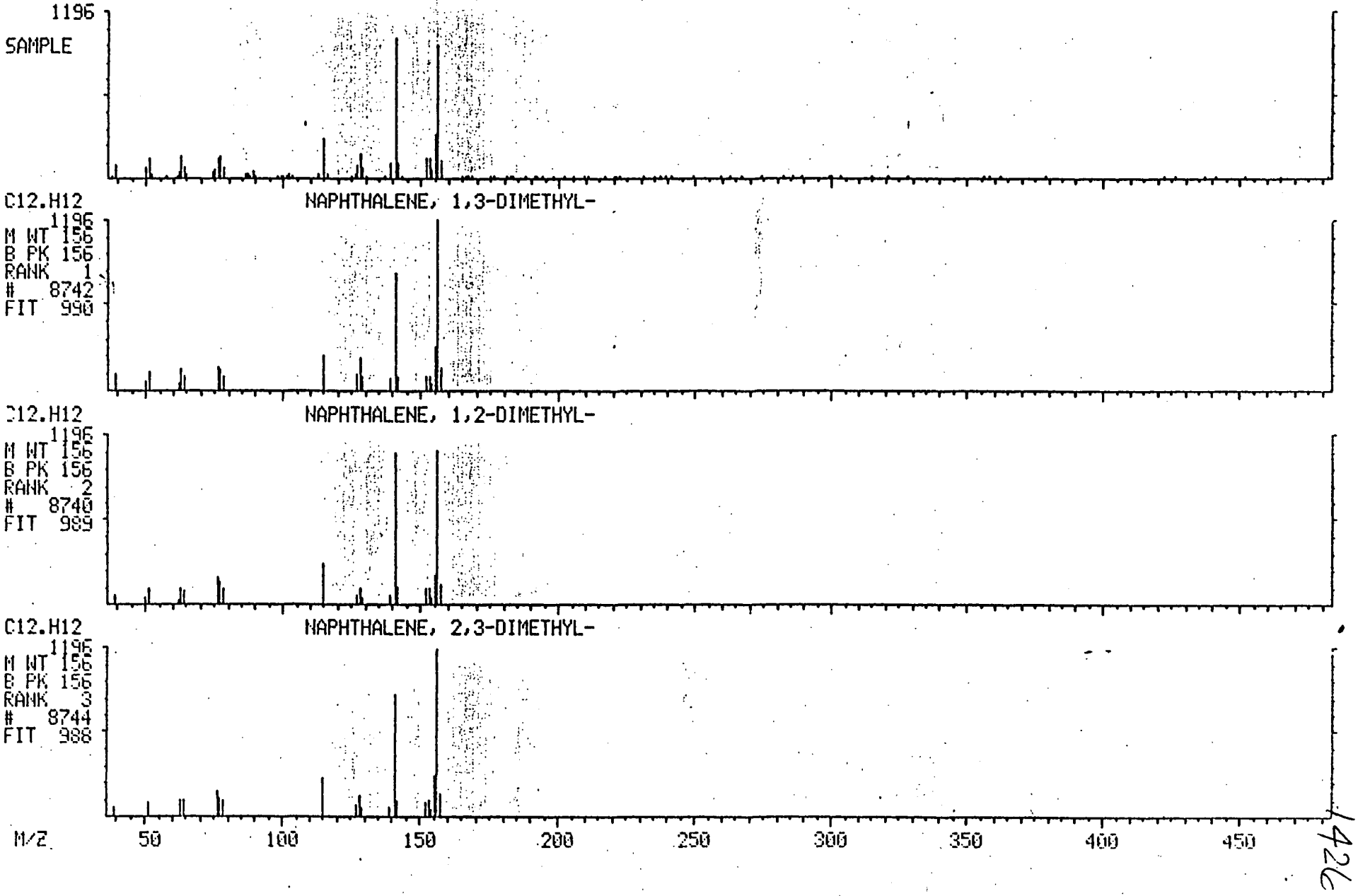


1425

MID LIBRARY SEARCH
08/26/87 0:43:00 + 17:36
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1099
CALI: 14558RN6 # 2

BASE M/Z: 141
RIC: 1851390.



MID Library Search Data: 14558RN6 #1099 Base m/z: 141
08/26/87 0:43:00 + 17:36 Cali: 14558RN6 # 2 RIC: 1851390.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	8742	NAPHTHALENE, 1,3-DIMETHYL-
2	8740	NAPHTHALENE, 1,2-DIMETHYL-
3	8744	NAPHTHALENE, 2,3-DIMETHYL-
4	8739	NAPHTHALENE, 1,5-DIMETHYL-
5	8741	NAPHTHALENE, 1,7-DIMETHYL-

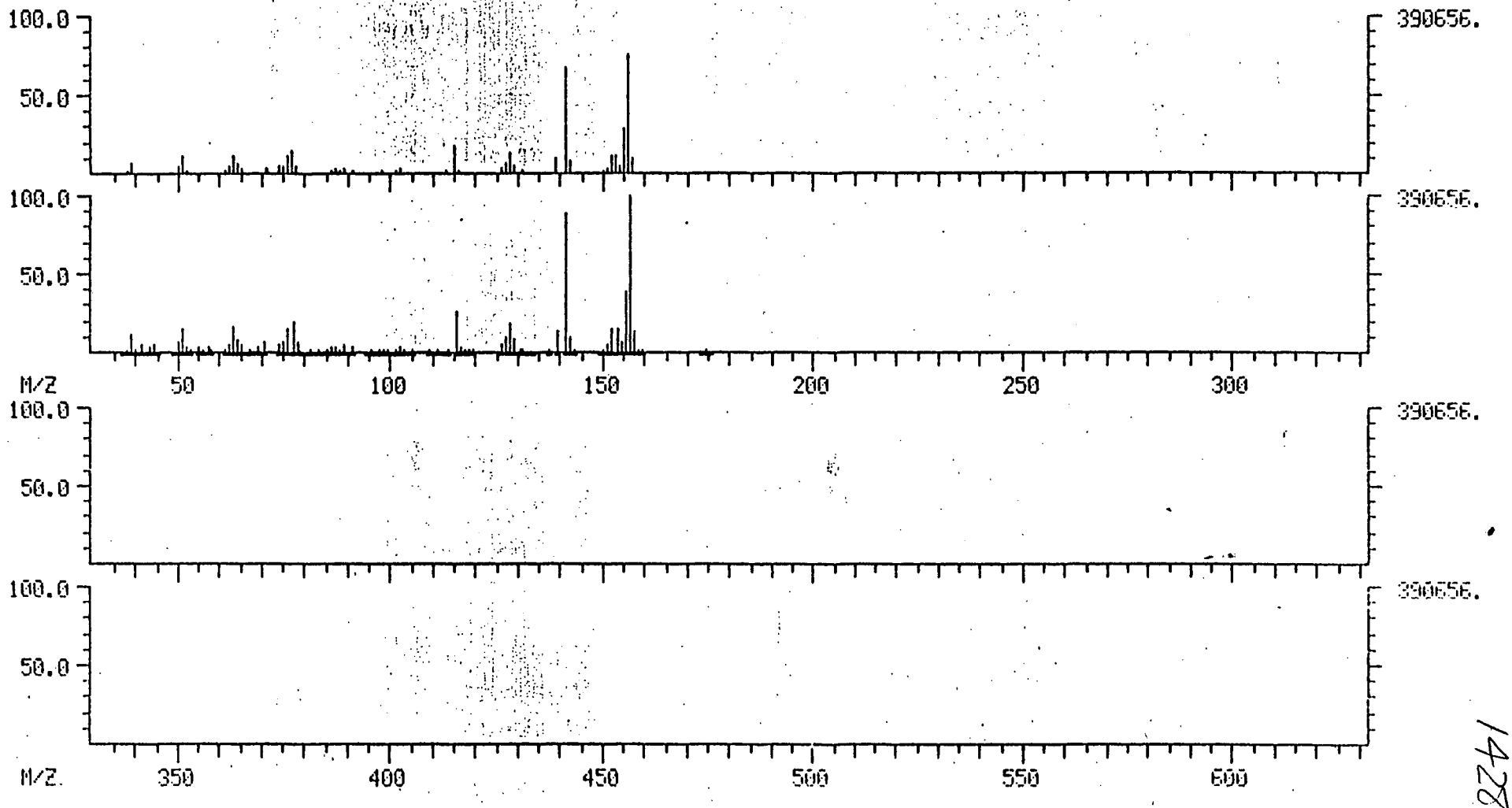
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H12	156	156	903	990	903
2	C12.H12	156	156	903	989	903
3	C12.H12	156	156	891	988	891
4	C12.H12	156	156	898	985	898
5	C12.H12	156	156	887	982	896

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	575-41-7
2	———	———	———	———	573-98-8
3	———	———	———	———	581-40-8
4	———	———	———	———	571-61-9
5	———	———	———	———	575-37-1

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 17:40
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 166 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1103
CALI: 14558RN6 #2

BASE M/Z: 156/ 156
RIC: 1597430./ 2367480.

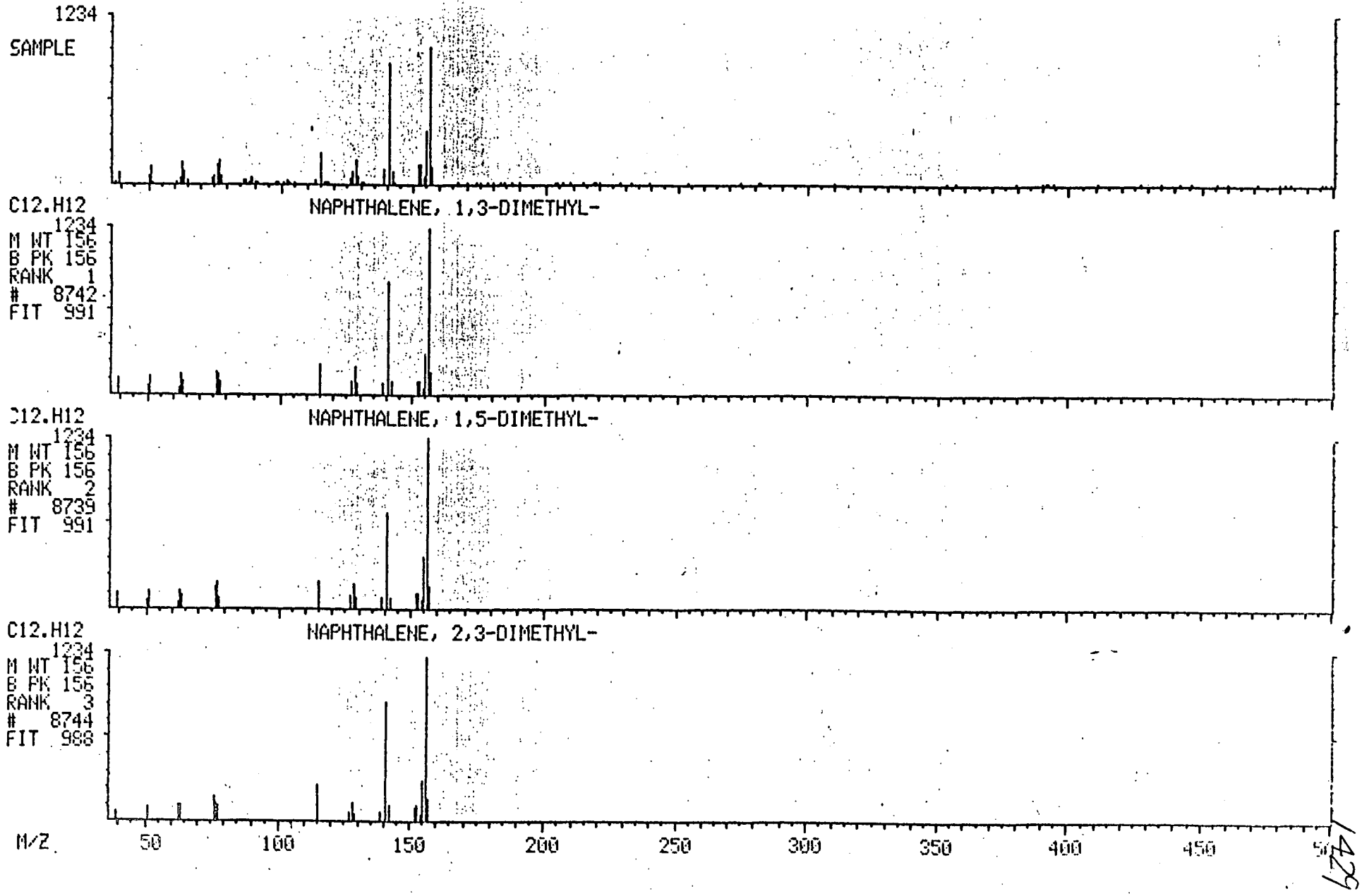


1428

MID LIBRARY SEARCH
08/26/87 0:43:00 + 17:40
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1103
CALI: 14558RN6 # 2

BASE M/Z: 156
RIC: 1531900.



MID Library Search Data: 14558RN6 #1103 Base m/z: 156
08/26/87 0:43:00 + 17:40 Cali: 14558RN6 # 2 RIC: 1531900.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	8742	NAPHTHALENE, 1,3-DIMETHYL-
2	8739	NAPHTHALENE, 1,5-DIMETHYL-
3	8744	NAPHTHALENE, 2,3-DIMETHYL-
4	8741	NAPHTHALENE, 1,7-DIMETHYL-
5	8746	NAPHTHALENE, 2,7-DIMETHYL-

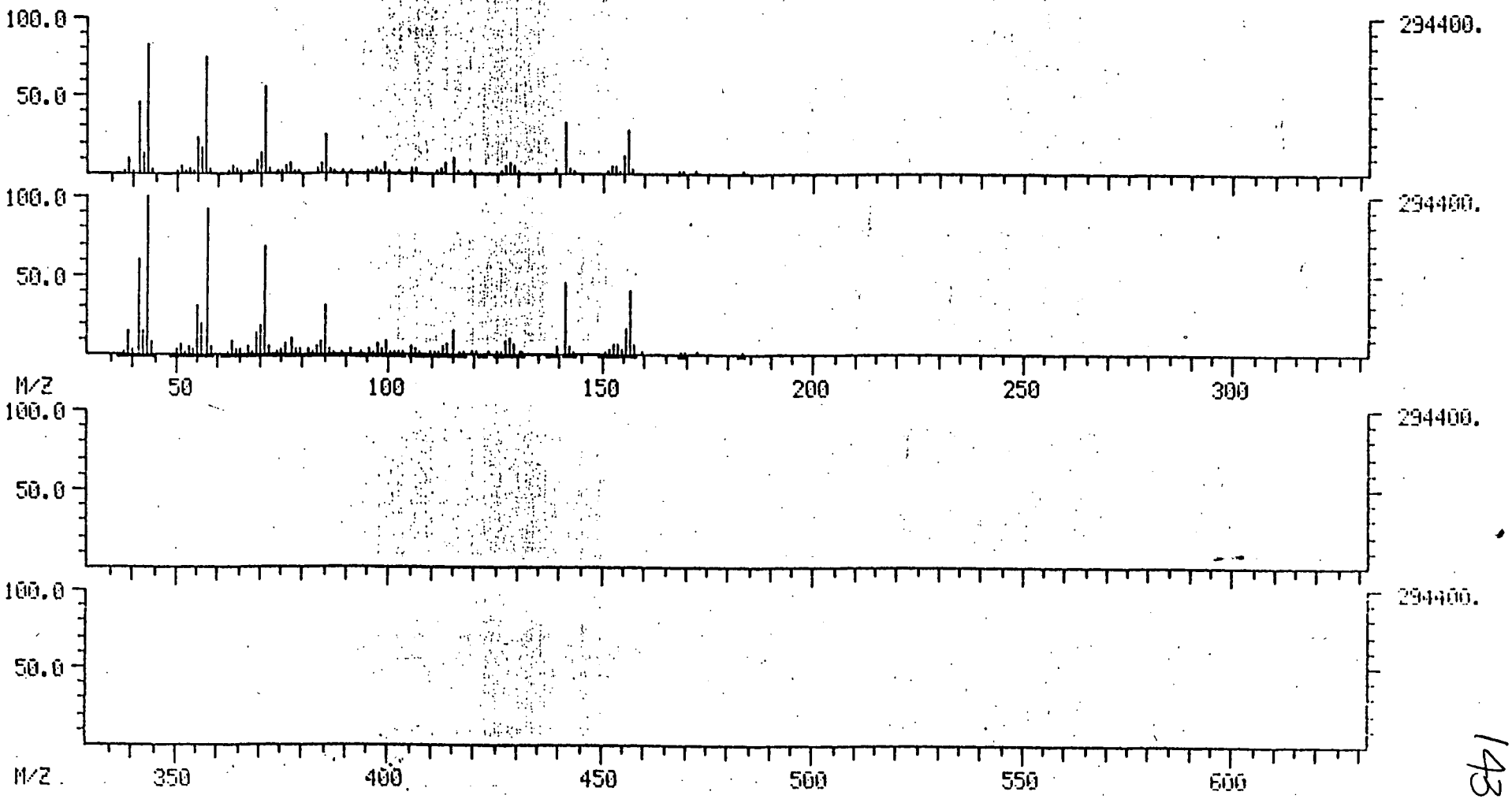
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H12	156	156	900	991	900
2	C12.H12	156	156	900	991	900
3	C12.H12	156	156	888	988	888
4	C12.H12	156	156	886	985	895
5	C12.H12	156	156	894	985	894

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	575-41-7
2	___	___	___	___	571-61-9
3	___	___	___	___	581-40-8
4	___	___	___	___	575-37-1
5	___	___	___	___	582-16-1

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 18:01
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 170 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1125
CALI: 14558RN6 #2

BASE M/Z: 43/ 43
RIC: 1814520./ 2494460.

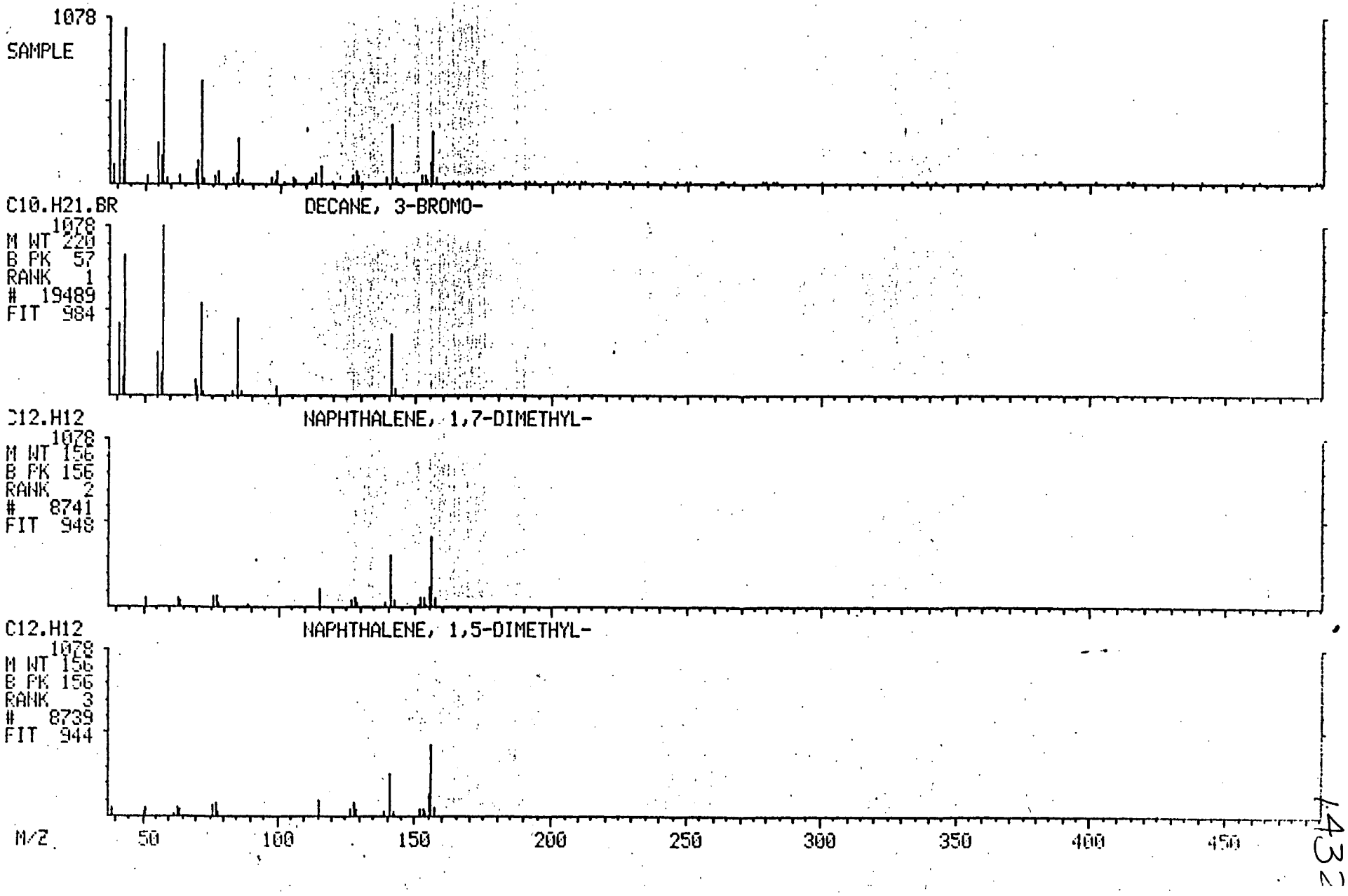


1431

MID LIBRARY SEARCH
08/26/87 0:43:00 + 18:01
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1125
CALI: 14558RN6 # 2

BASE M/Z: 43
RIC: 1667070.



MID Library Search Data: 14558RN6 #1125 Base m/z: 43
08/26/87 0:43:00 + 18:01 Cali: 14558RN6 # 2 RIC: 1667070.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	19489	DECANE, 3-BROMO-
2	8741	NAPHTHALENE, 1,7-DIMETHYL-
3	8739	NAPHTHALENE, 1,5-DIMETHYL-
4	8742	NAPHTHALENE, 1,3-DIMETHYL-
5	8737	NAPHTHALENE, 1,8-DIMETHYL-

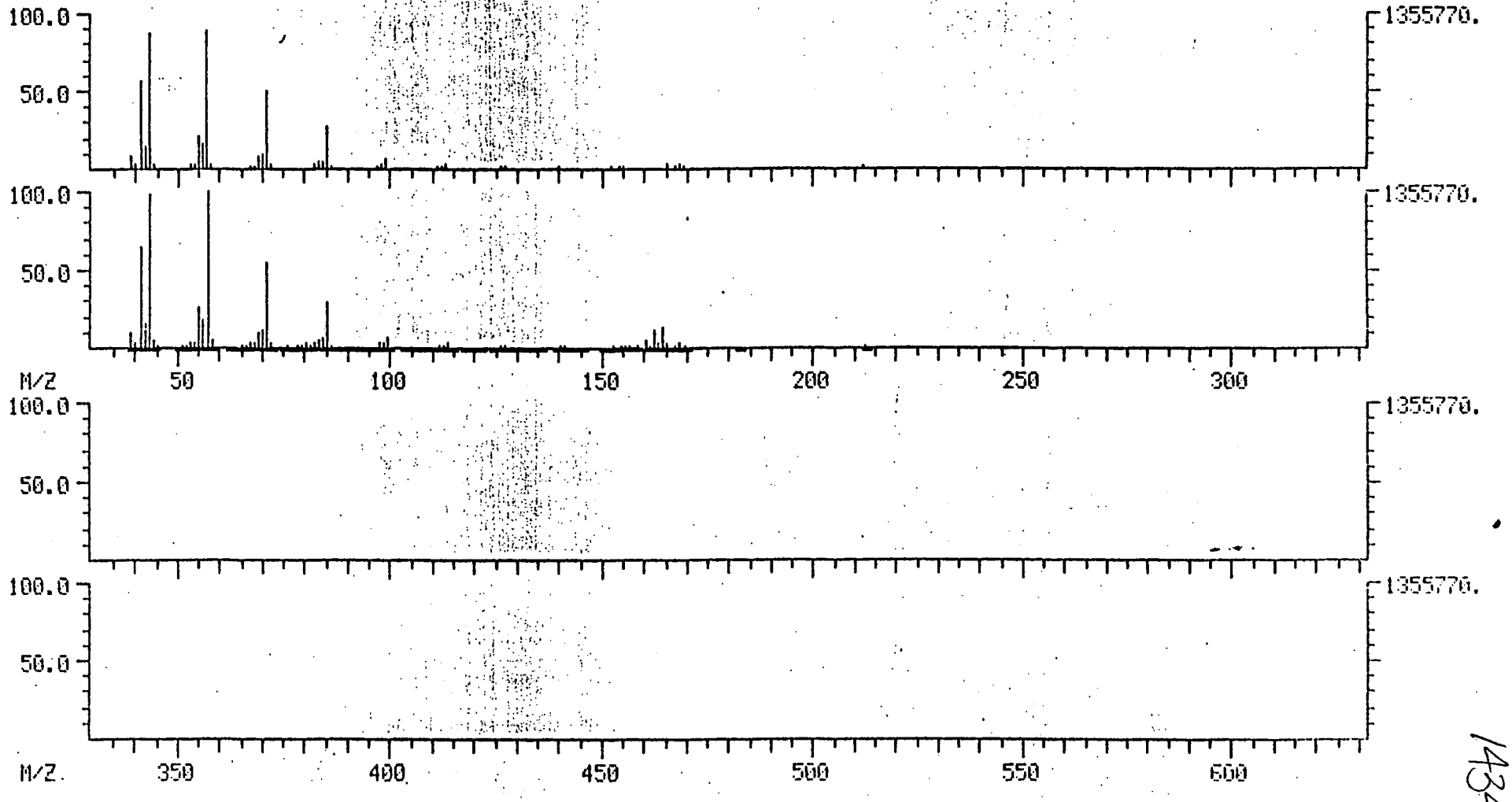
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H21.BR	220	57	559	984	559
2	C12.H12	156	156	383	948	399
3	C12.H12	156	156	390	944	405
4	C12.H12	156	156	390	943	406
5	C12.H12	156	156	379	938	398

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	30571-71-2
2	___	___	___	___	575-37-1
3	___	___	___	___	571-61-9
4	___	___	___	___	575-41-7
5	___	___	___	___	569-41-5

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 18:38
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 175 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1164
CALI: 14558RN6 #2

BASE M/Z: 57/ 57
RIC: 6365180./ 8060920.

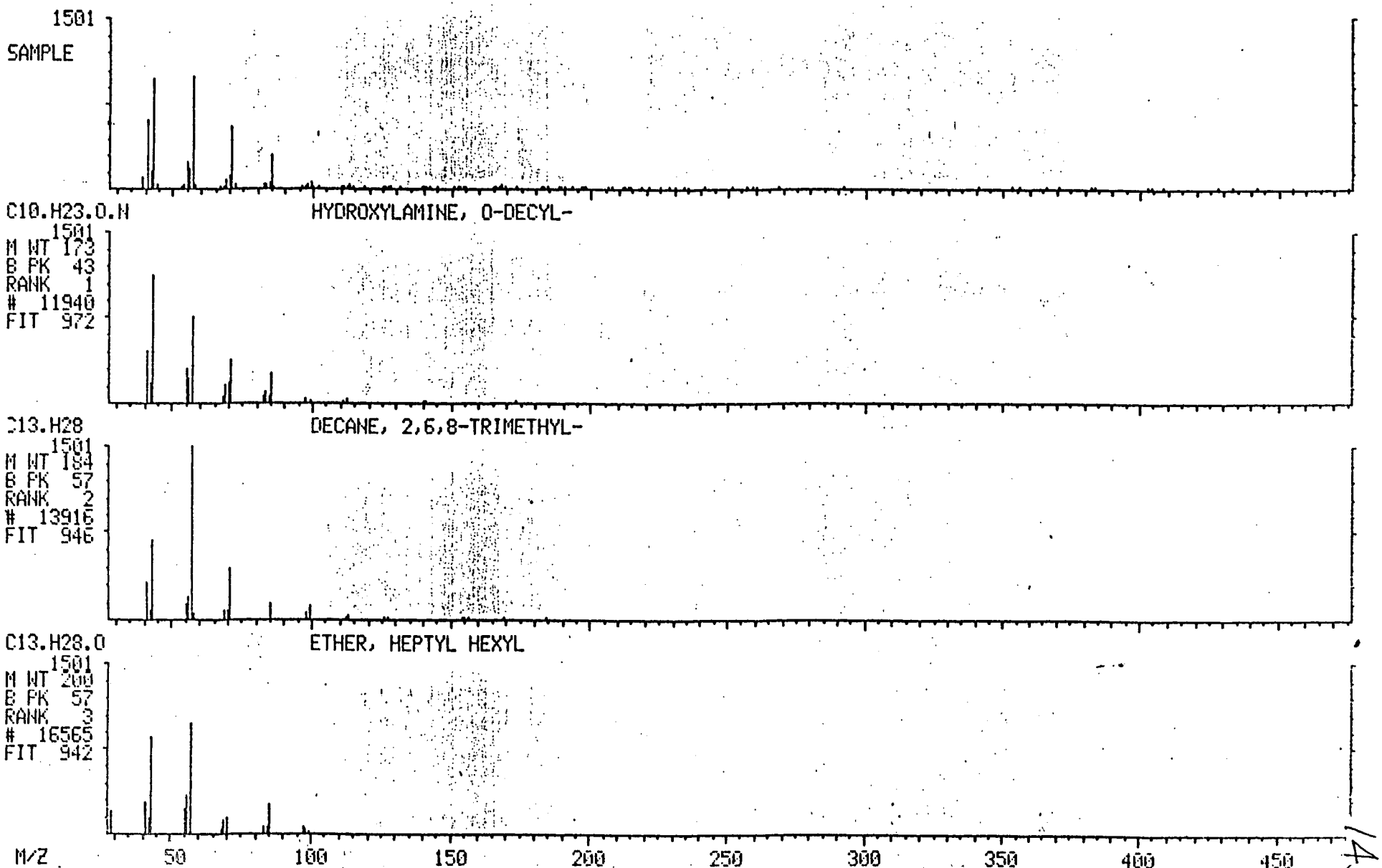


1434

MID LIBRARY SEARCH
08/26/87 0:43:00 + 18:38
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1164
CALI: 14558RN6 # 2

BASE M/Z: 57
RIC: 6291450.



MID Library Search Data: 14558RN6 #1164 Base m/z: 57
08/26/87 0:43:00 + 18:38 Cali: 14558RN6 # 2 RIC: 6291450.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	11940	HYDROXYLAMINE, O-DECYL-
2	13916	DECANE, 2,6,8-TRIMETHYL-
3	16565	ETHER, HEPTYL HEXYL
4	8733	OCTANE, 2,4,6-TRIMETHYL-
5	8722	NONANE, 4,5-DIMETHYL-

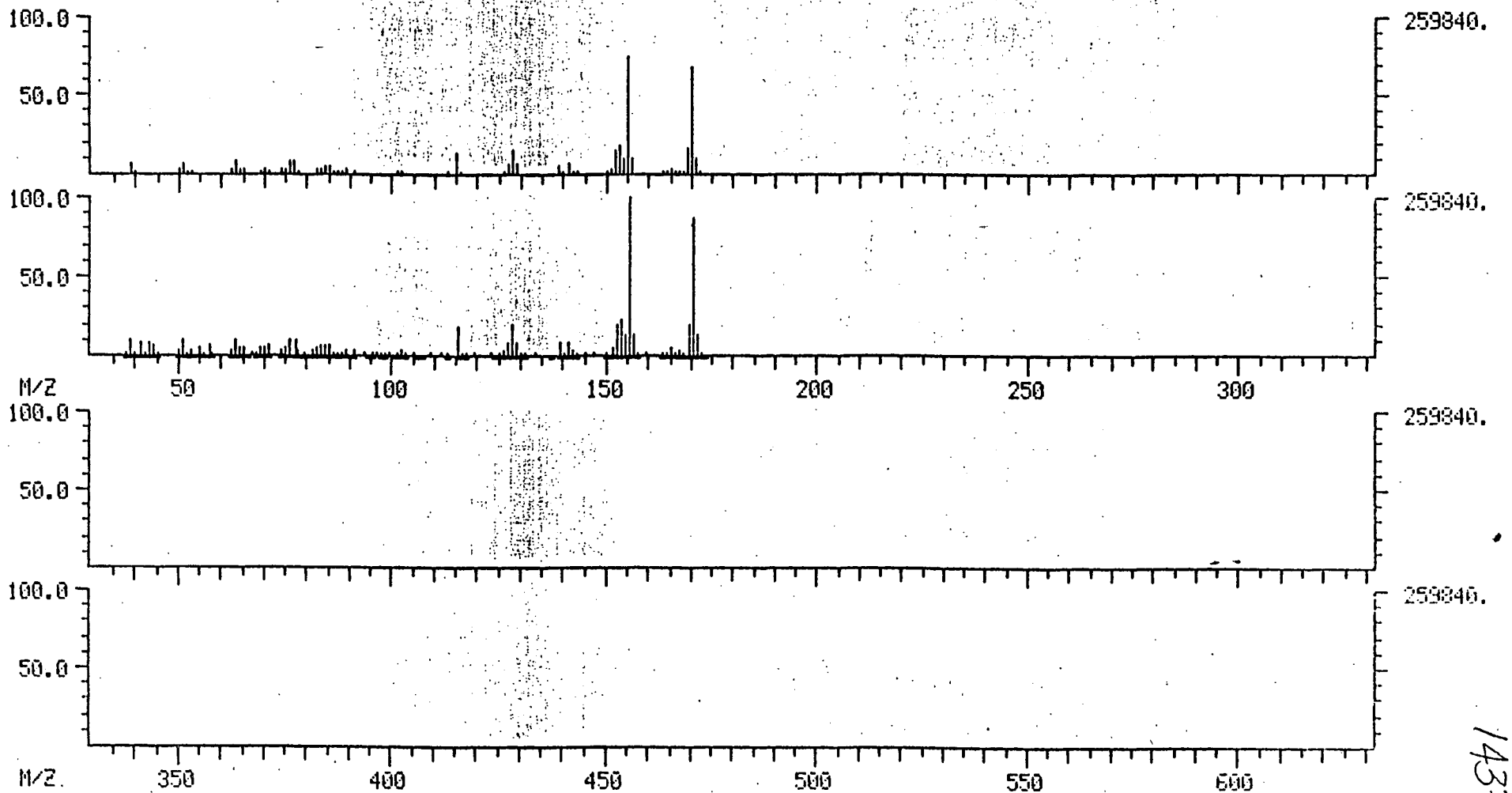
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H23.O.N	173	43	775	972	775
2	C13.H28	184	57	755	946	757
3	C13.H28.O	200	57	622	942	639
4	C11.H24	156	57	719	942	738
5	C11.H24	156	43	670	941	683

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	29812-79-1
2	___	___	___	___	62108-26-3
3	___	___	___	___	7289-40-9
4	___	___	___	___	62016-37-9
5	___	___	___	___	17302-23-7

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 19:27
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 181 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1215
CALI: 14558RN6 #2

BASE M/Z: 155/ 155
RIC: 1033210./ 1632250.

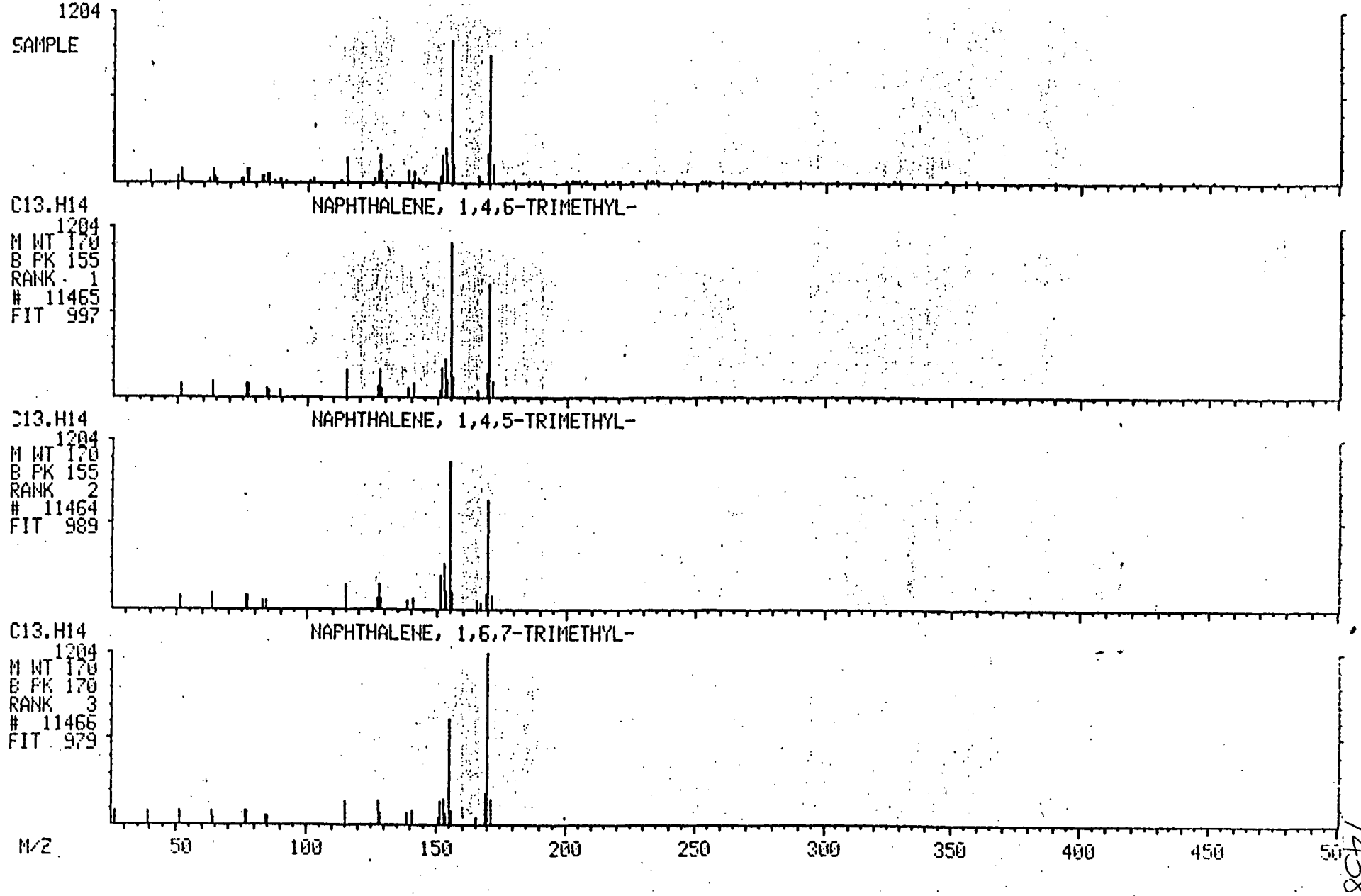


1437

MID LIBRARY SEARCH
08/26/87 0:43:00 + 19:27
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1215
CALI: 14558RN6 # 2

BASE M/Z: 155
RIC: 957439.



MID Library Search Data: 14558RN6 #1215 Base m/z: 155
08/26/87 0:43:00 + 19:27 Cali: 14558RN6 # 2 RIC: 957439.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	11465	NAPHTHALENE, 1,4,6-TRIMETHYL-
2	11464	NAPHTHALENE, 1,4,5-TRIMETHYL-
3	11466	NAPHTHALENE, 1,6,7-TRIMETHYL-
4	11462	NAPHTHALENE, 2,3,6-TRIMETHYL-
5	11467	NAPHTHALENE, 1,3,6-TRIMETHYL-

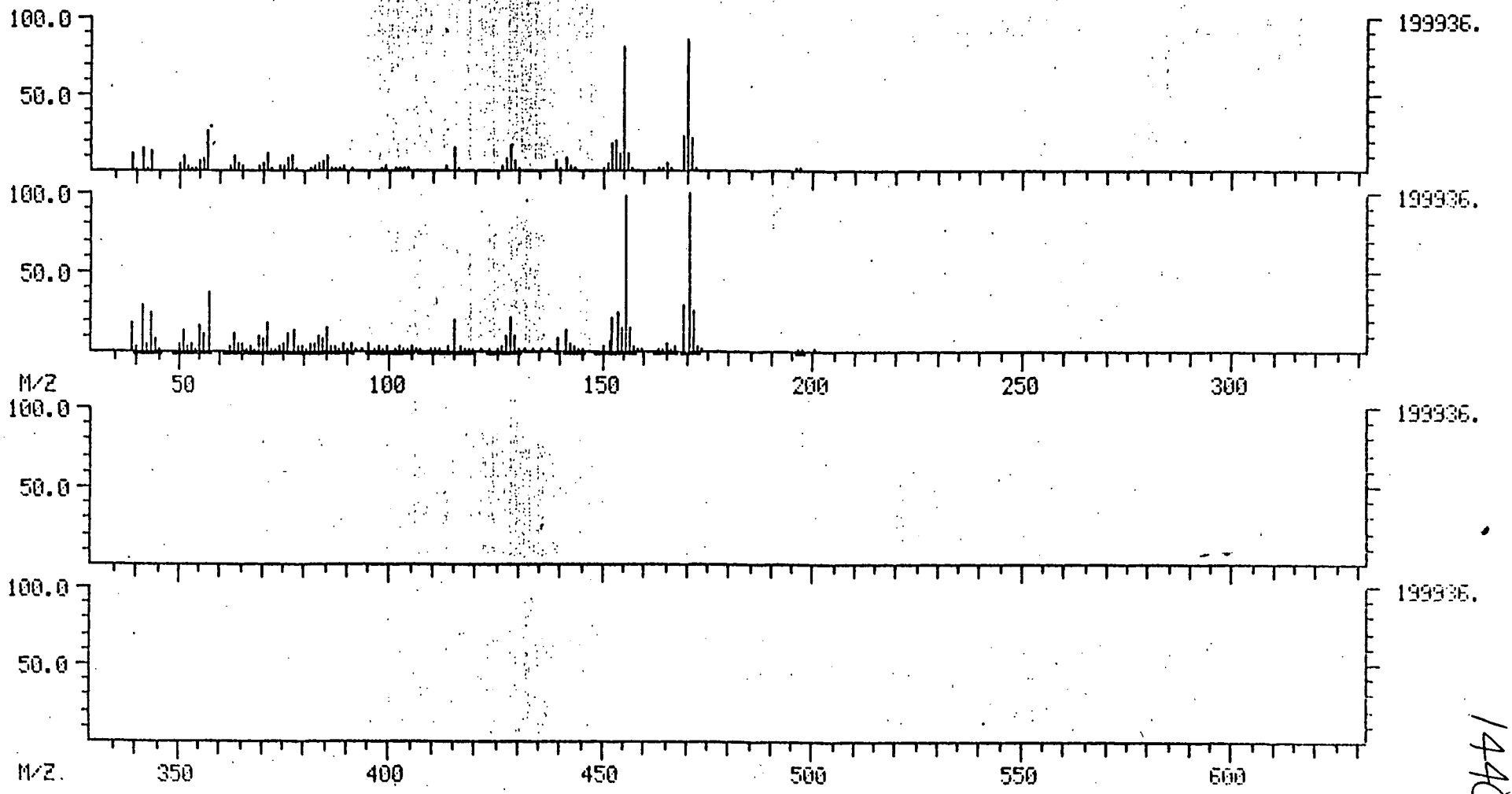
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H14	170	155	902	997	902
2	C13.H14	170	155	883	989	883
3	C13.H14	170	170	876	979	881
4	C13.H14	170	170	878	978	882
5	C13.H14	170	170	669	976	669

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	2131-42-2
2	———	———	———	———	2131-41-1
3	———	———	———	———	2245-38-7
4	———	———	———	———	829-26-5
5	———	———	———	———	3031-08-1

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 19:47
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 184 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1235
CALI: 14558RN6 #2

BASE M/Z: 170/ 170
RIC: 1187830./ 1763320.

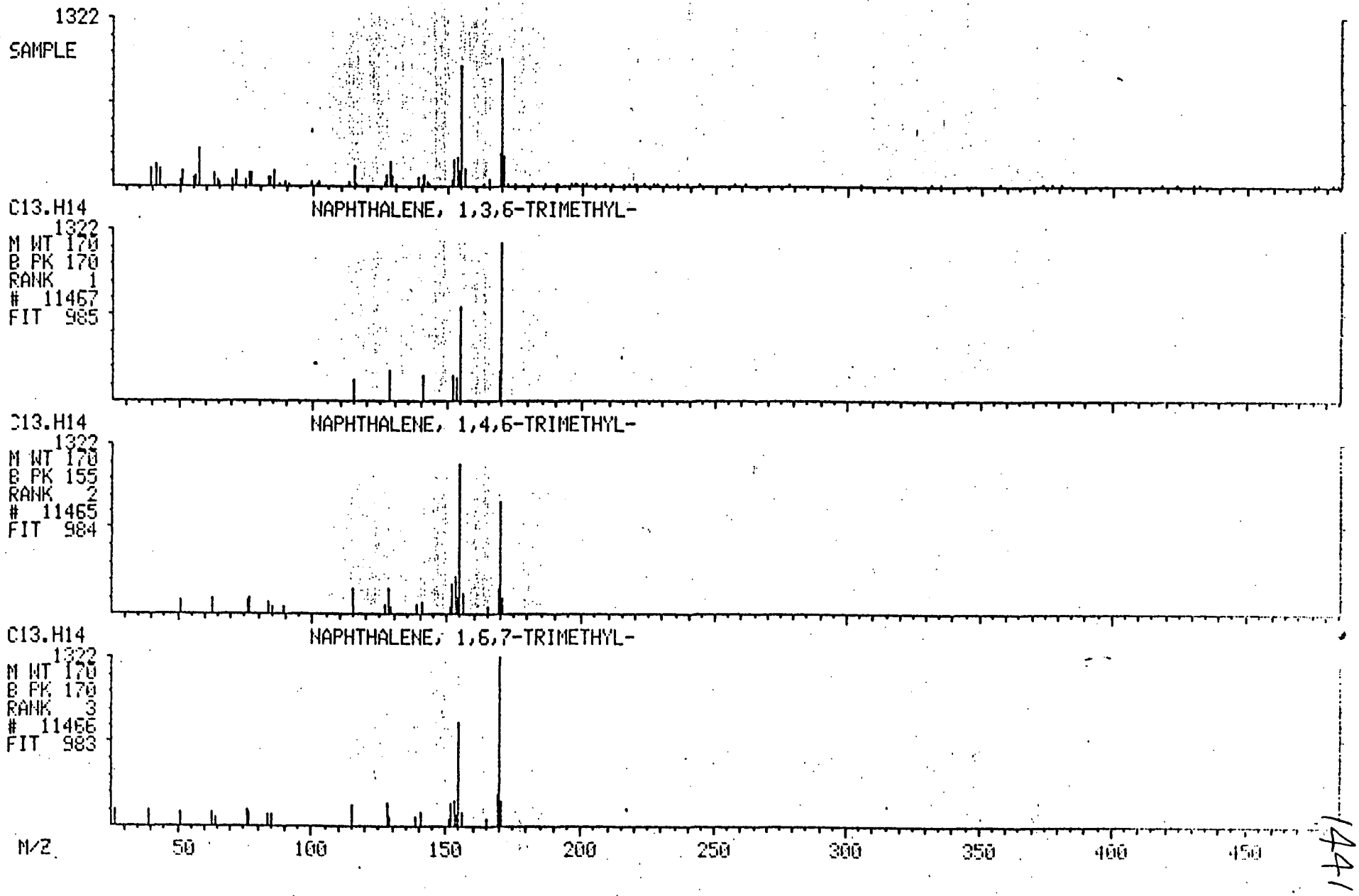


1440

MID LIBRARY SEARCH
08/26/87 0:43:00 + 19:47
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1235
CALI: 14558RN6 # 2

BASE M/Z: 170
RIC: 1081340.



1441

MID Library Search — Data: 14558RN6 #1235 — Base m/z: 170
08/26/87 0:43:00 + 19:47 — Cali: 14558RN6 # 2 — RIC: 1081340.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	11467	NAPHTHALENE, 1,3,6-TRIMETHYL-
2	11465	NAPHTHALENE, 1,4,6-TRIMETHYL-
3	11466	NAPHTHALENE, 1,6,7-TRIMETHYL-
4	11462	NAPHTHALENE, 2,3,6-TRIMETHYL-
5	11464	NAPHTHALENE, 1,4,5-TRIMETHYL-

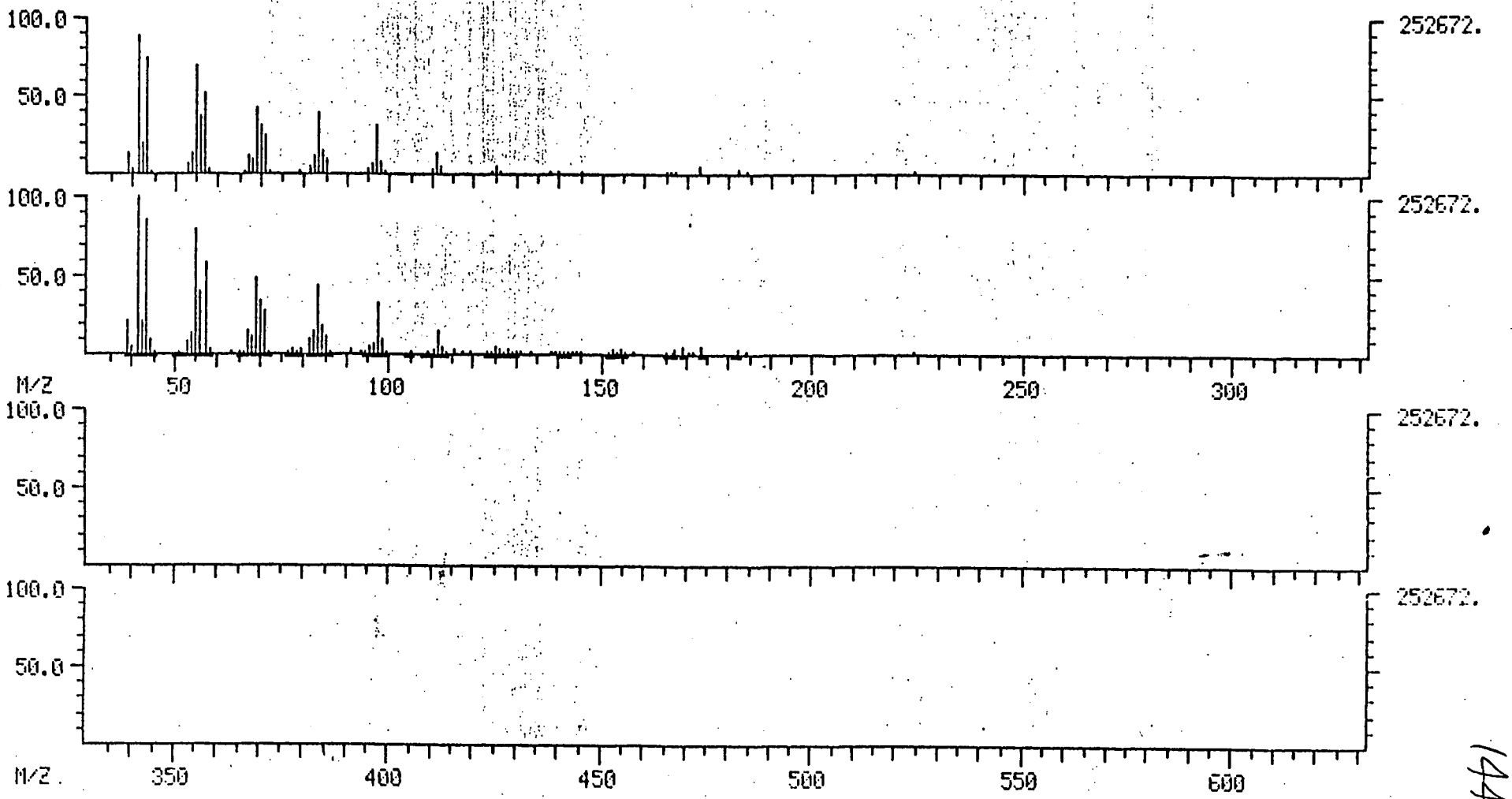
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H14	170	170	599	985	599
2	C13.H14	170	155	822	984	822
3	C13.H14	170	170	815	983	820
4	C13.H14	170	170	818	983	822
5	C13.H14	170	155	784	962	796

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	3031-08-1
2	———	———	———	———	2131-42-2
3	———	———	———	———	2245-38-7
4	———	———	———	———	829-26-5
5	———	———	———	———	2131-41-1

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 20:07
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 185 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1256
CALI: 14558RN6 #2

BASE M/Z: 41/ 41
RIC: 1714170./ 2187260.

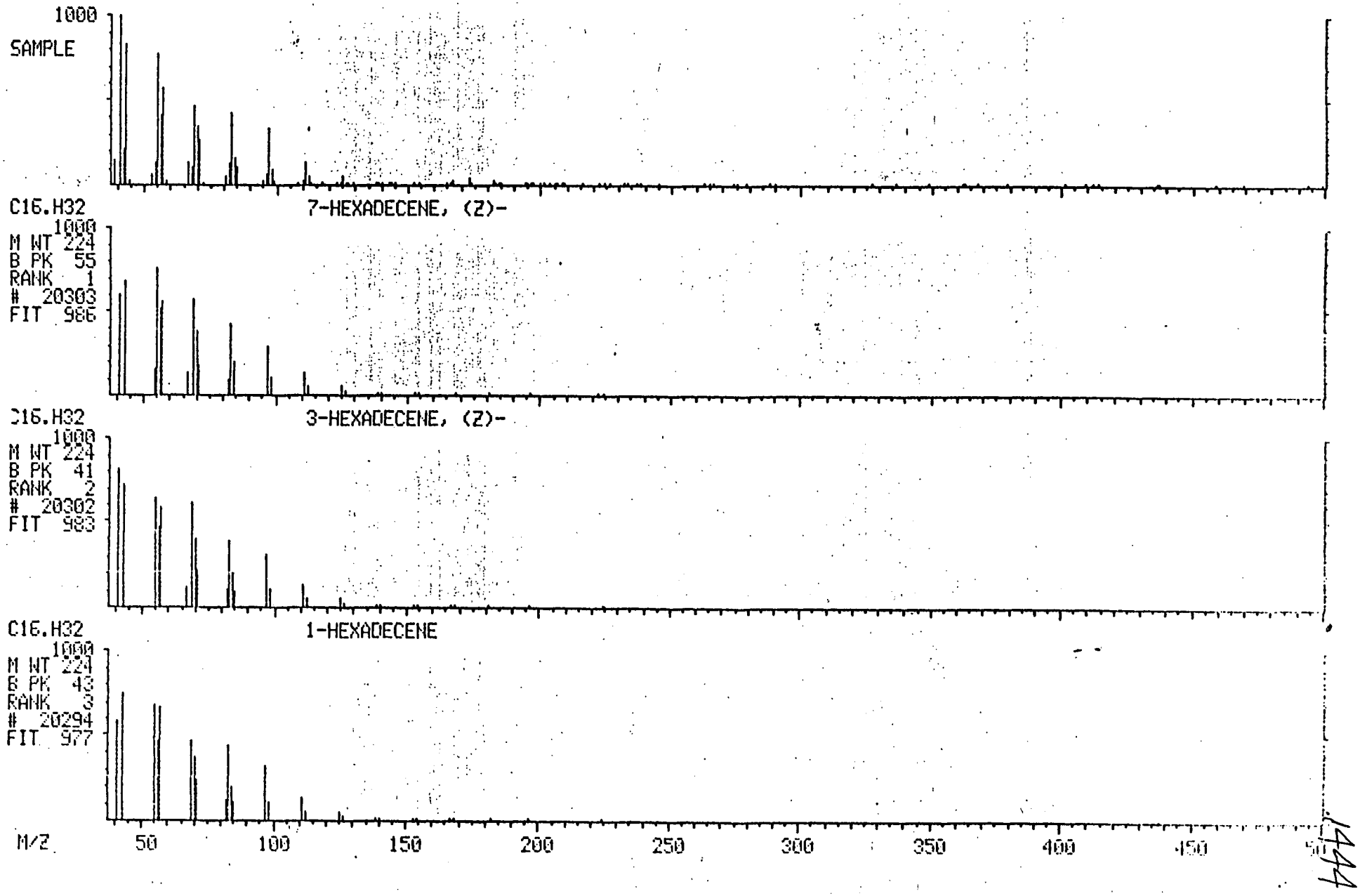


144

MID LIBRARY SEARCH
08/26/87 0:43:00 + 20:07
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1256
CALI: 14558RN6 # 2

BASE M/Z: 41
RIC: 1697790.



1444

MID Library Search Data: 14558RN6 #1256 Base m/z: 41
08/25/87 0:43:00 + 20:07 Cali: 14558RN6 # 2 RIC: 1697790.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	20303	7-HEXADECENE, (Z)-
2	20302	3-HEXADECENE, (Z)-
3	20294	1-HEXADECENE
4	15936	3-TETRADECENE, (E)-
5	20293	CYCLOHEXADECANE

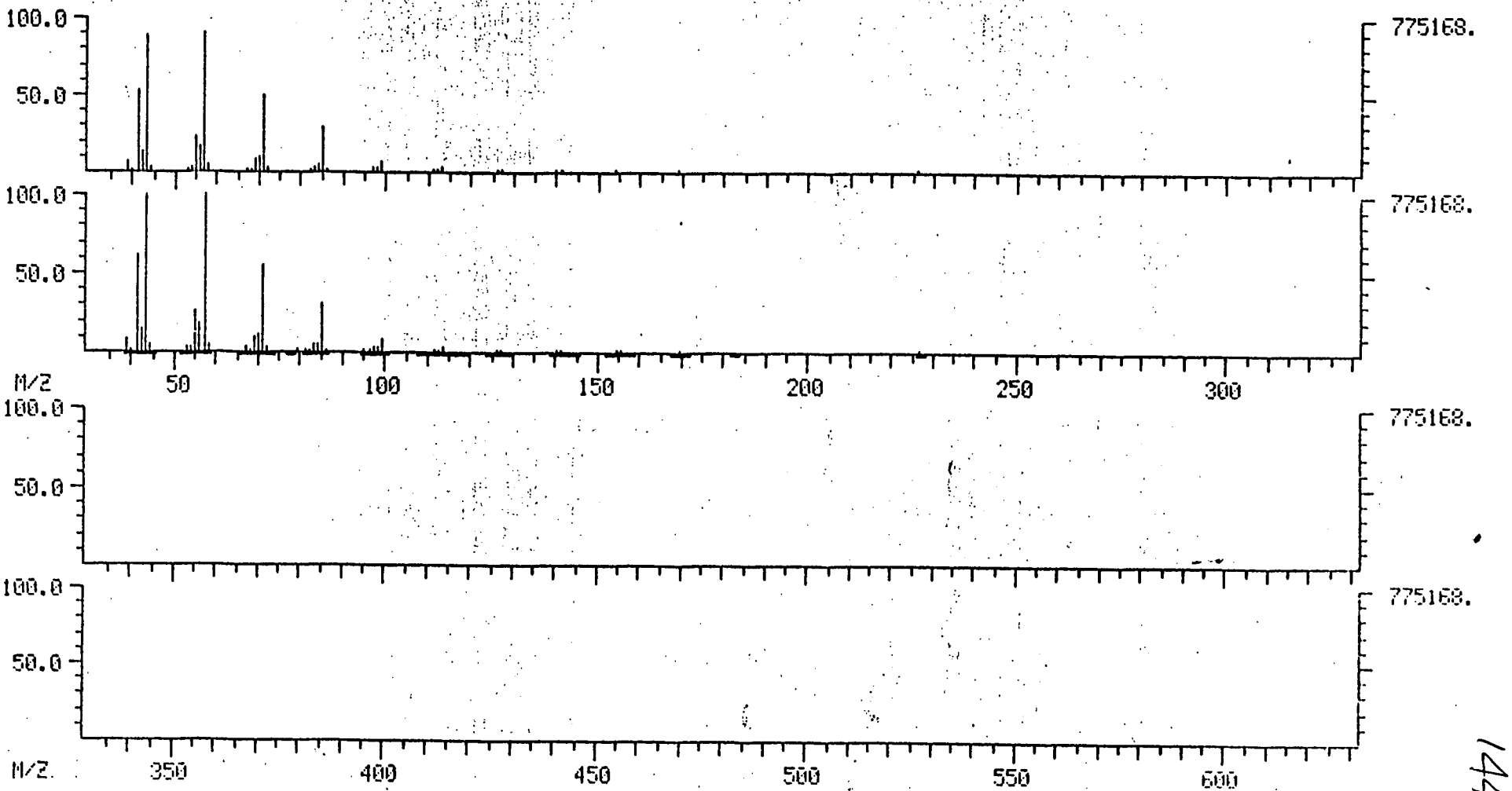
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H32	224	55	793	986	796
2	C16.H32	224	41	801	983	805
3	C16.H32	224	43	790	977	796
4	C14.H28	196	41	759	973	762
5	C16.H32	224	55	780	967	790

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	———	———	———	———	35507-09-6
2	———	———	———	———	34303-81-6
3	———	———	———	———	629-73-2
4	———	———	———	———	41446-68-8
5	———	———	———	———	295-65-8

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 20:14
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 188 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1263
CALI: 14558RN6 #2

BASE M/Z: 57/ 57
RIC: 3522550./ 4173820.

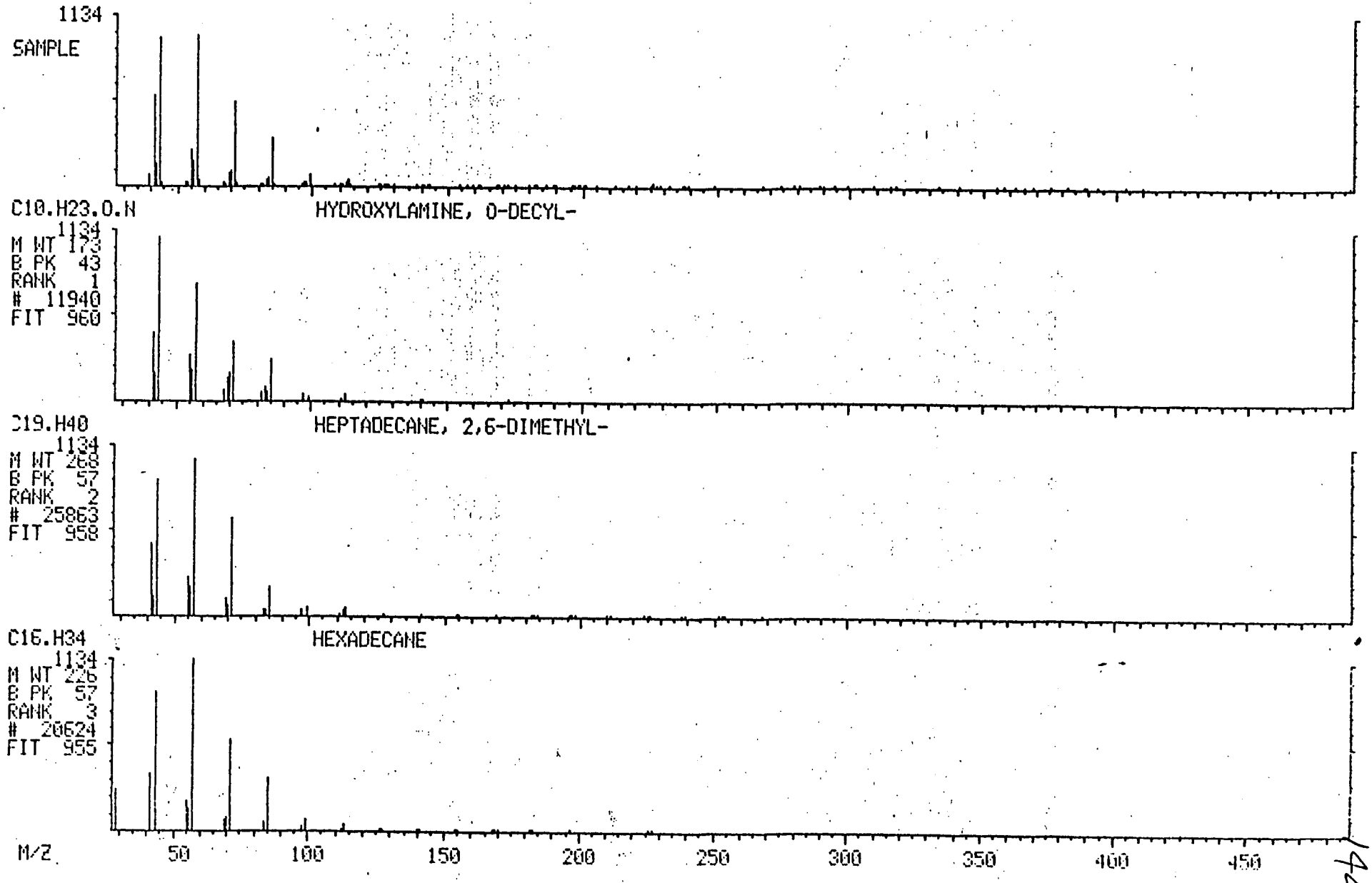


1446

MID LIBRARY SEARCH
08/26/87 0:43:00 + 20:14
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1263
CALI: 14558RN6 # 2

BASE M/Z: 57
RIC: 3506170.



44

MID Library Search Data: 14558RN6 #1263 Base m/z: 57
08/26/87 0:43:00 + 20:14 Cali: 14558RN6 # 2 RIC: 3506170.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	11940	HYDROXYLAMINE, O-DECYL-
2	25863	HEPTADECANE, 2,6-DIMETHYL-
3	20624	HEXADECANE
4	18538	DODECANE, 2,6,11-TRIMETHYL-
5	13874	UNDECANE, 2,7-DIMETHYL-

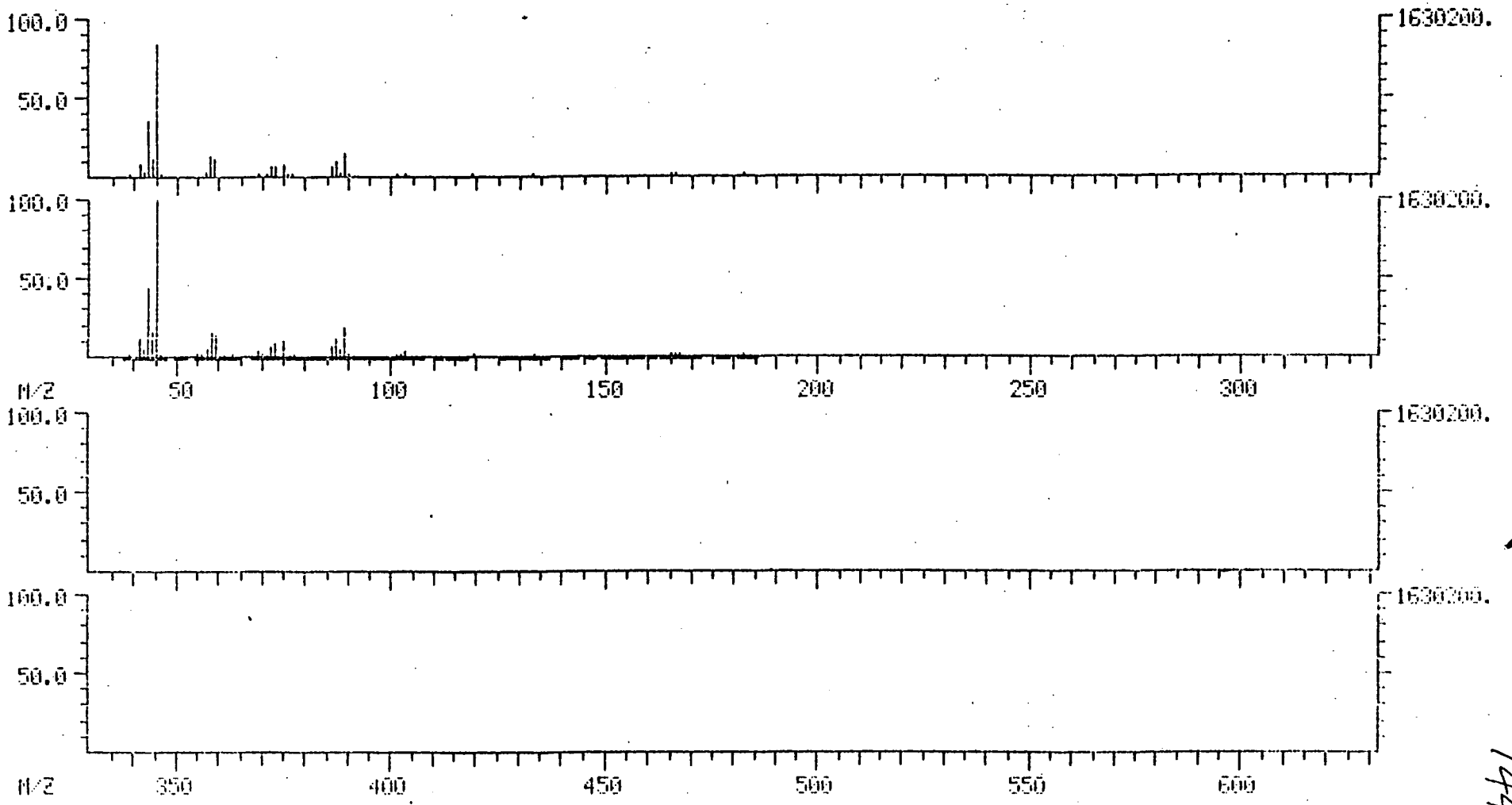
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H23.O.N	173	43	812	960	814
2	C19.H40	268	57	852	958	862
3	C16.H34	226	57	833	955	865
4	C15.H32	212	57	793	948	818
5	C13.H28	184	43	788	944	806

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	29812-79-1
2	___	___	___	___	54105-67-8
3	___	___	___	___	544-76-3
4	___	___	___	___	31295-56-4
5	___	___	___	___	17301-24-5

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 20:21
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 189 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1271
CALI: 14558RN6 #2

BASE M/Z: 45/ 45
RIC: 4194300./ 5365750.

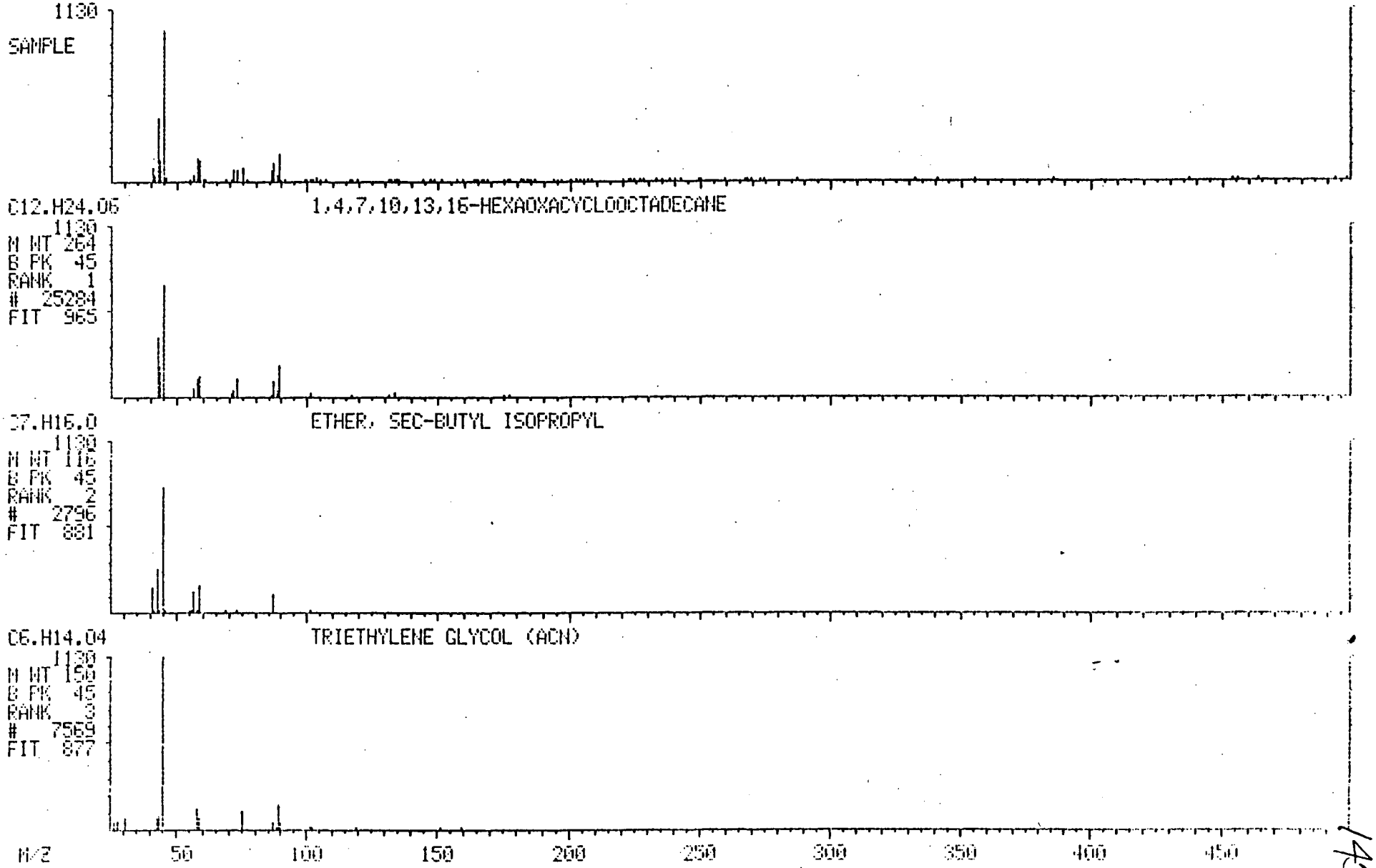


1449

MID LIBRARY SEARCH
08/26/87 0:43:00 + 20:21
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1271
CALI: 14558RN6 # 2

BASE M/Z: 45
RIC: 4091900.



MID Library Search Data: 14558RN6 #1271 Base m/z: 45
08/26/87 0:43:00 + 20:21 Cali: 14558RN6 # 2 RIC: 4091900.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	25284	1,4,7,10,13,16-HEXAOXACYCLOOCTADECANE
2	2796	ETHER, SEC-BUTYL ISOPROPYL
3	7569	TRIETHYLENE GLYCOL (ACN)
4	6966	PROPANE, 2,2'-[ETHYLIDENEBIS(OXY)]BIS-
5	1408	BUTANAMIDE, N-METHYL-

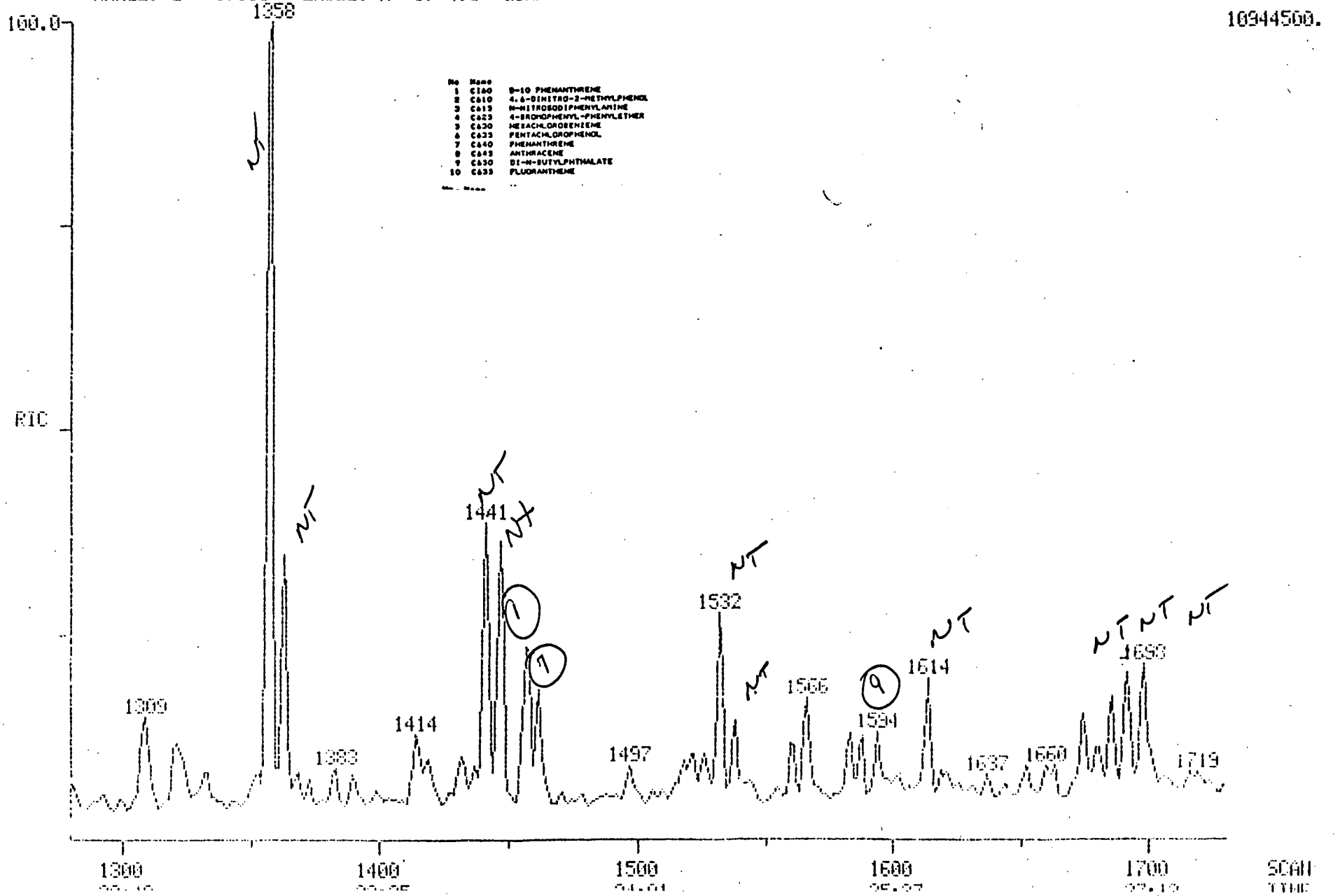
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H24.O6	264	45	735	965	735
2	C7.H16.O	116	45	543	881	546
3	C6.H14.O4	150	45	611	877	643
4	C8.H18.O2	146	45	603	870	617
5	C5.H11.O.N	101	43	244	848	244

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	----	----	----	----	17455-13-9
2	----	----	----	----	18641-81-1
3	----	----	----	----	112-27-6
4	----	----	----	----	4285-59-0
5	----	----	----	----	17794-44-4

MIDRIC
08/26/87 0:43:00
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558RN6 #1
CALI: 14558RN6 #2

SCANS 1280 TO 1730



No	Name
1	C160 9-10 PHENANTHRENE
2	C610 4,6-DINITRO-2-METHYLPHENOL
3	C615 N-NITROSODIPHENYLAMINE
4	C625 4-BROMOPHENYL-PHENYLETHER
5	C630 HEXACHLOROBENZENE
6	C635 PENTACHLOROPHENOL
7	C640 PHENANTHRENE
8	C645 ANTHRACENE
9	C650 DI-N-BUTYLPHTHALATE
10	C655 FLUORANTHENE

1452

1453

Quantitation Report File: 14558RN6

Data: 14558RN6.TI
08/26/87 0:43:00
Sample: 14558-6
Conds.: 10.44 GME/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DNM Analyst: WAF Acct. No.: 14558RN6

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

No	Name		
1	C160	D-10 PHENANTHRENE	(INT. STD.)
2	C610	4,6-DINITRO-2-METHYLPHENOL	
3	C615	N-NITROSODIPHENYLAMINE	*
4	C625	4-BROMOPHENYL-PHENYLETHER	
5	C630	HEXACHLOROBENZENE	
6	C635	PENTACHLOROPHENOL	*
7	C640	PHENANTHRENE	
8	C645	ANTHRACENE	
9	C650	DI-N-BUTYLPHTHALATE	
10	C655	FLUORANTHENE	*

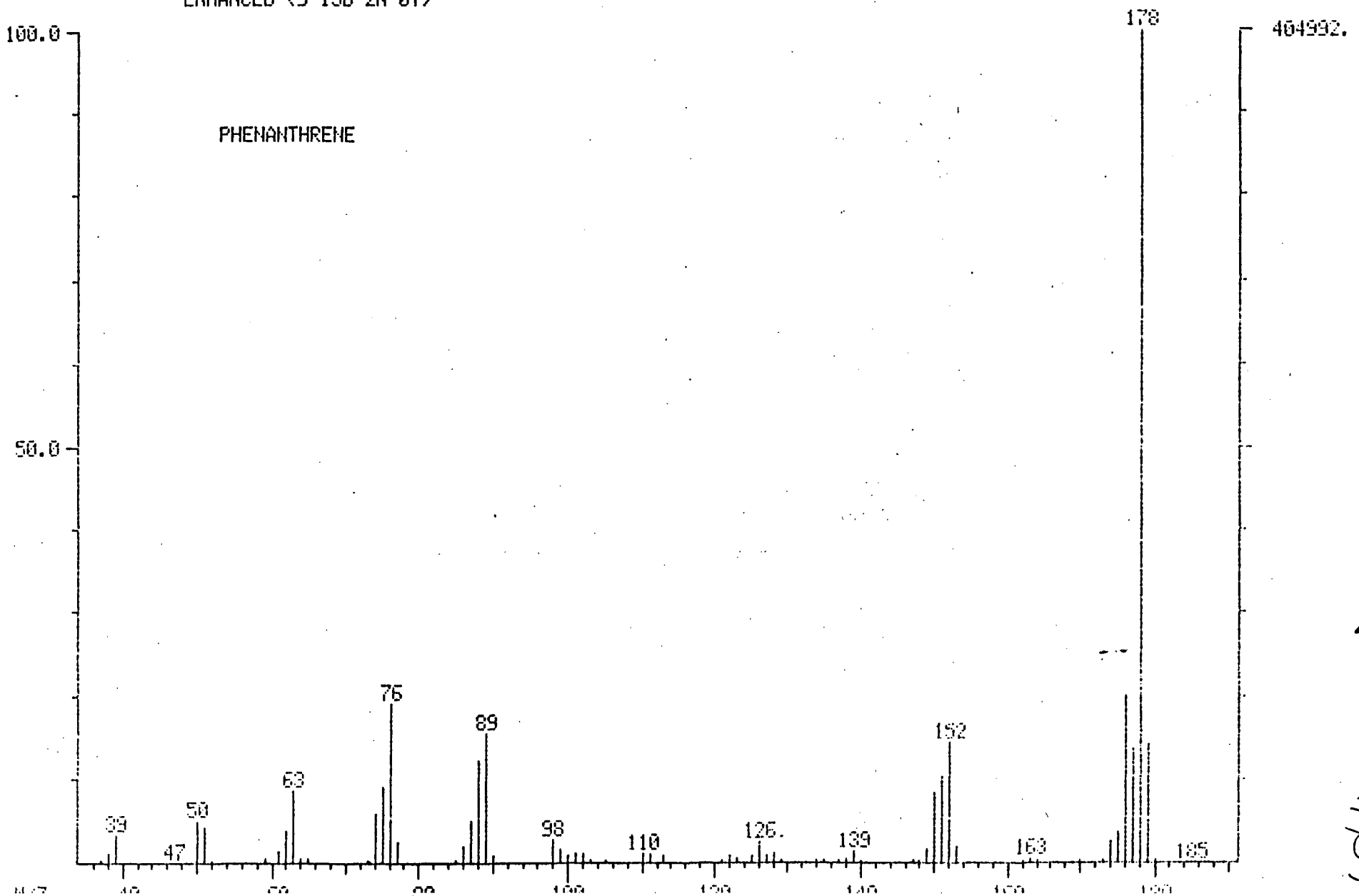
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	188	1457	23:20	1	1.000	A BV	1868030.	40.000 NG	46.16	
2	NOT FOUND									
3	169	1304	20:53	1	0.895	A*BV	~~181174~~	~~7.272 NG~~	~~8.39~~ NO	ODU
4	248	1375	22:01	1	0.944	A BB	~~412.~~	~~0.043 NG~~	~~0.05~~ NO	ODU
5	NOT FOUND									
6	NOT FOUND									
7	178	1462	23:25	1	1.003	A BV	1183500.	23.660 NG	27.30	YES ODU
8	178	1470	23:32	1	1.009	A*VB	~~11663.~~	~~0.285 NG~~	~~0.33~~ NO	ODU
9	149	1594	25:32	1	1.094	A BB	898437.	12.385 NG	14.29	YES ODU
10	202	1701	27:14	1	1.167	A BV	~~139626.~~	~~2.968 NG~~	~~3.42~~ NO	ODU

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	23:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:44		0.888						
3	20:51	1.00	0.893	1.00	7.27	50.00	0.078	0.533	0.15
4	21:58	1.00	0.941	1.00	0.04	50.00	0.000	0.221	0.00
5	22:24		0.960						
6	22:59		0.984						
7	23:26	1.00	1.003	1.00	23.66	50.00	0.507	1.071	0.47
8	23:34	1.00	1.010	1.00	0.34	50.00	0.007	1.065	0.01
9	25:33	1.00	1.094	1.00	12.38	50.00	0.385	1.553	0.25
10	27:15	1.00	1.167	1.00	2.97	50.00	0.056	0.943	0.06

MID MASS SPECTRUM
08/26/87 0:43:00 + 23:25
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 213 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1462
CALI: 14558RN6 #2

BASE M/Z: 178
RIC: 1288190.

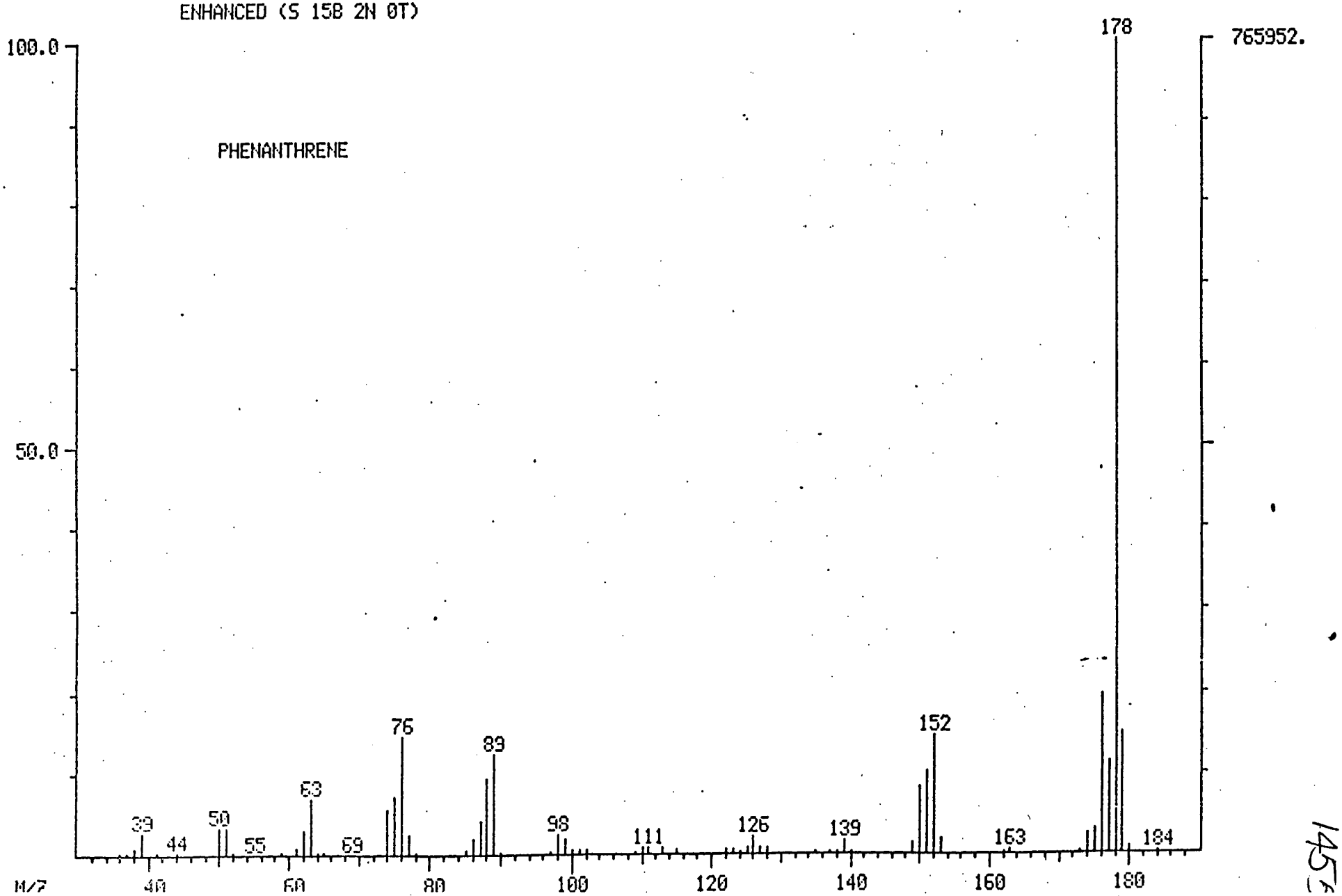


1454

MID MASS SPECTRUM
03/17/87 17:10:00 + 26:47
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 240 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1668
CALI: HSC50317 #2

BASE M/Z: 178
RIC: 2232310.

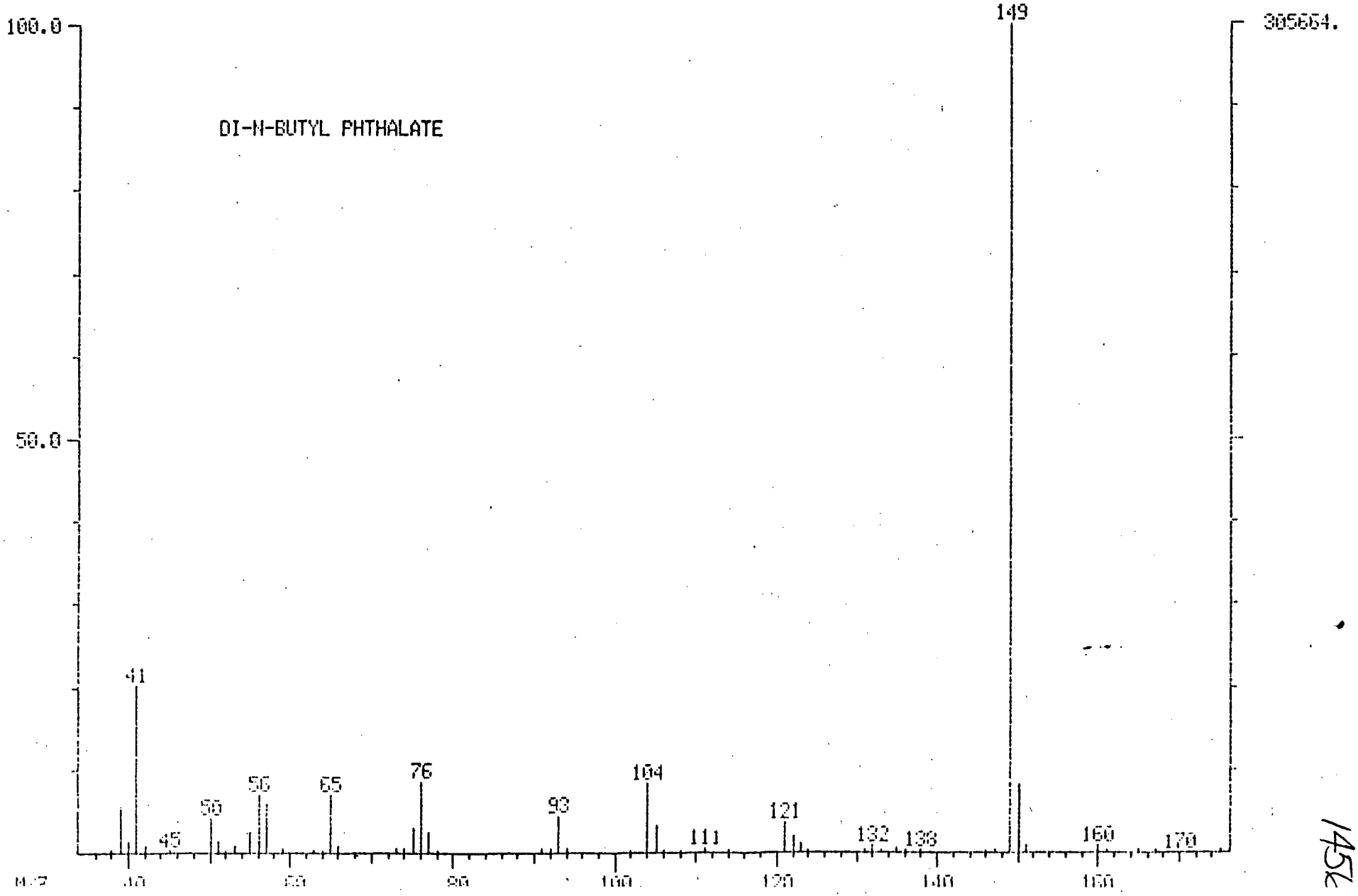


145

MID MASS SPECTRUM
08/26/87 0:43:00 + 25:32
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 230 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1594
CALI: 14558RN6 #2

BASE M/Z: 149
RIC: 706560.



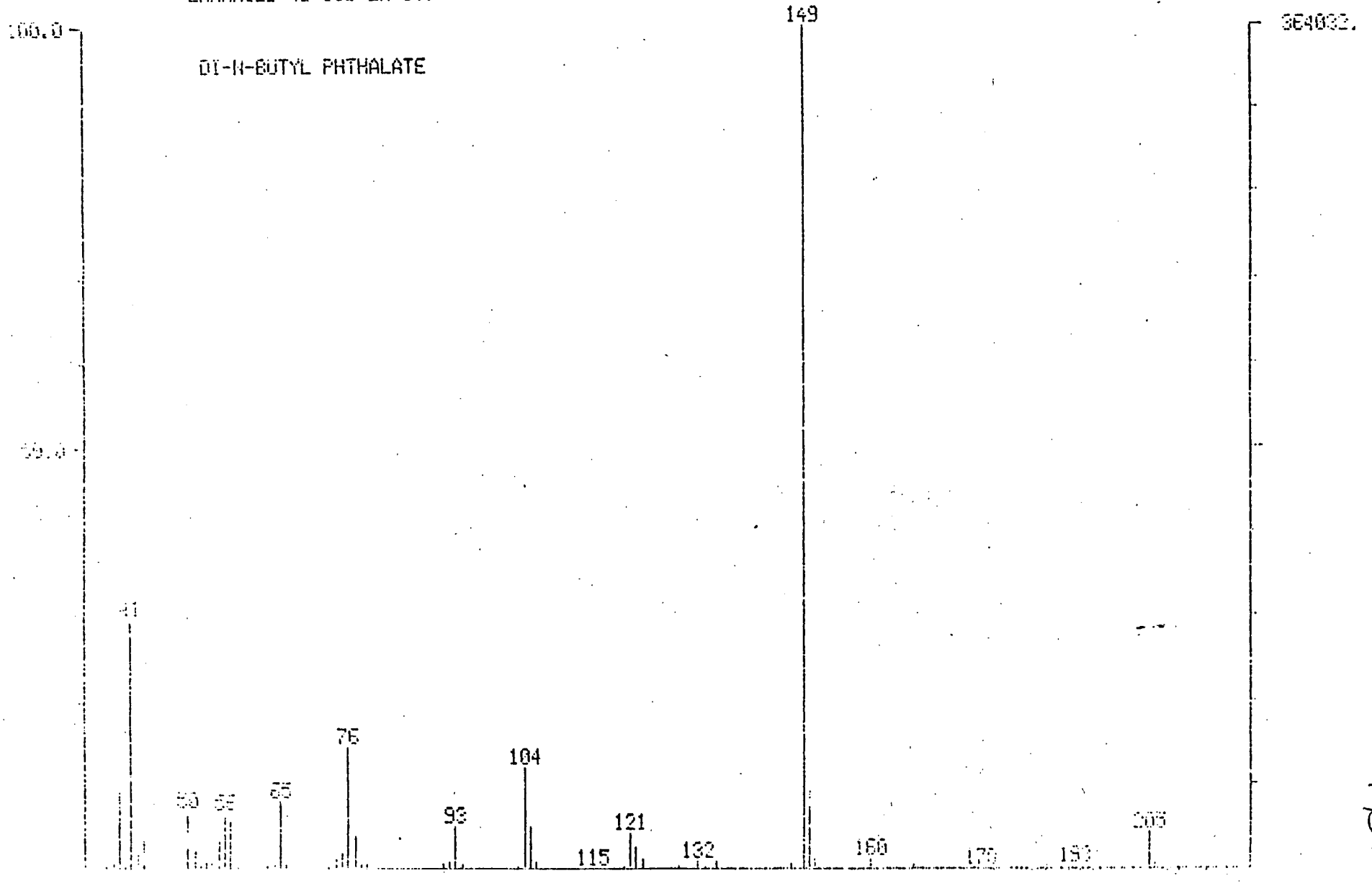
1457

MID MASS SPECTRUM
10/20/86 1:28:00 + 29:06
SAMPLE: HSL STANDARD 10/20/86 A.M.
COMDS.: 80 NG INJECTION
GC TEMP: 260 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSA801020A #1801
CALI: HSA801020A #2

BASE M/Z: 149
RIC: 1003520.

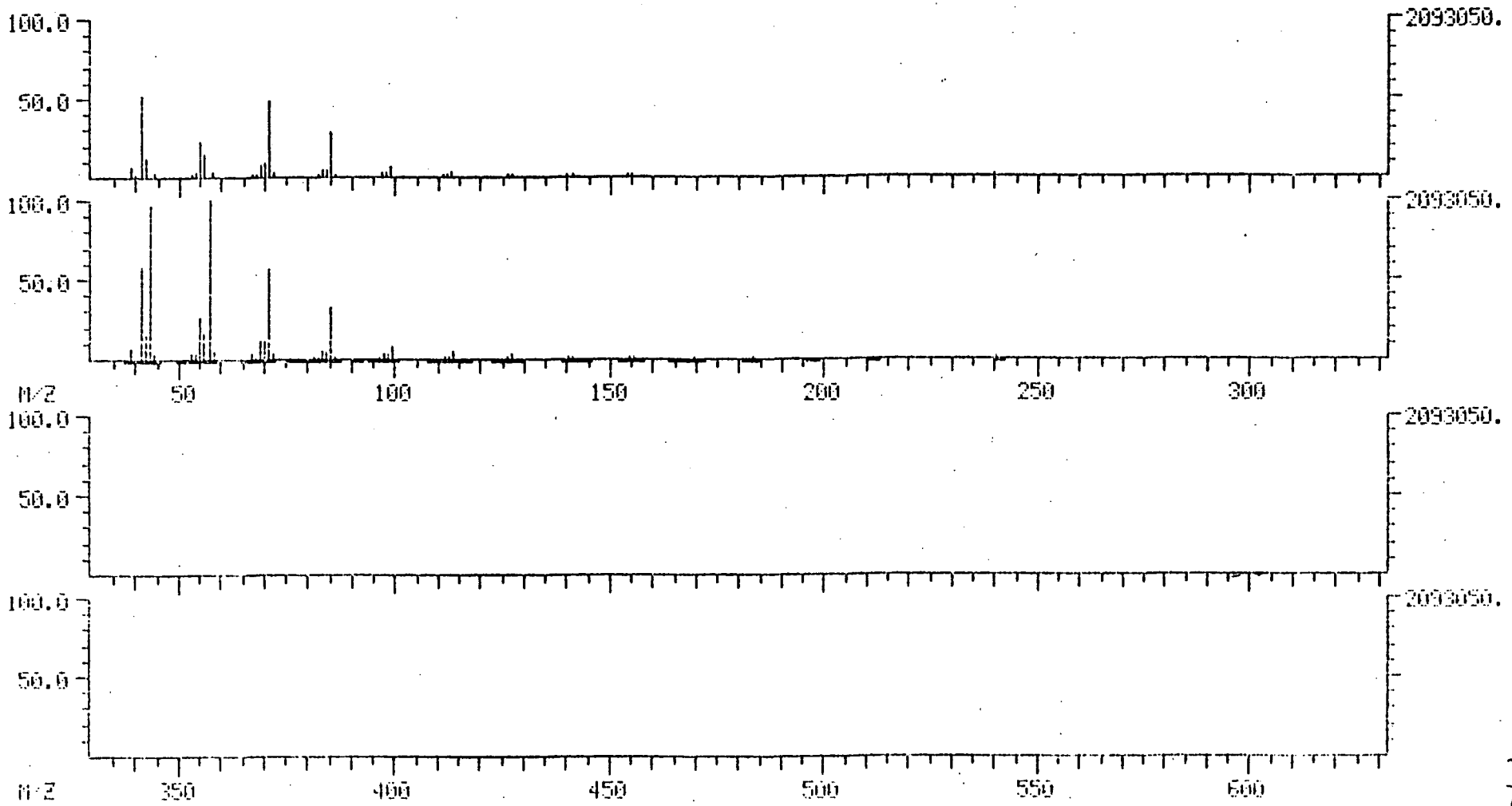
DI-N-BUTYL PHTHALATE



1457

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 21:45
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 200 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1358 BASE M/Z: 41/ 57
CALI: 14558RN6 #2 RIC: 5652470./10780000.

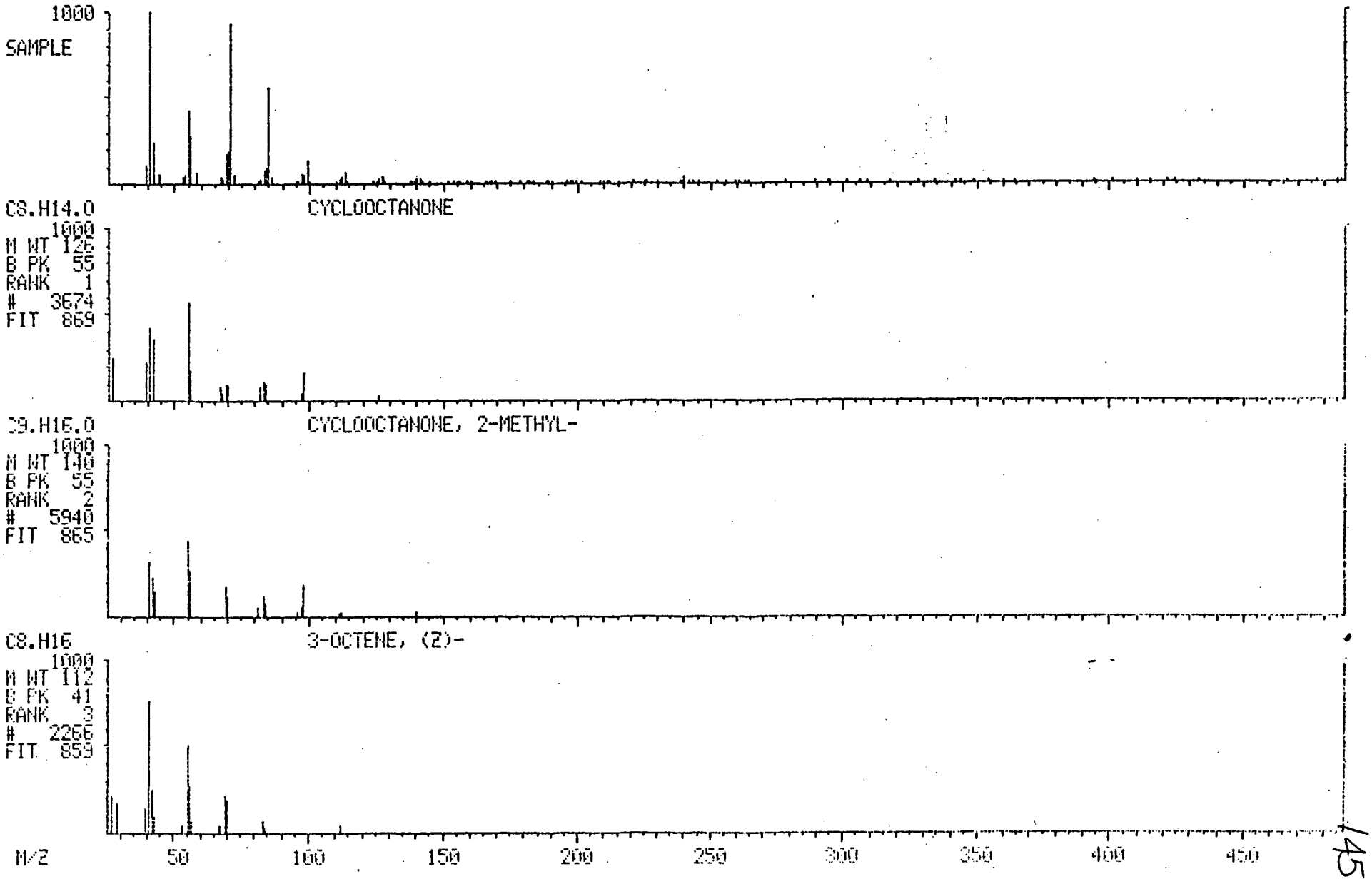


1458

MID LIBRARY SEARCH
08/26/87 0:43:00 + 21:45
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1358
CALI: 14558RN6 # 2

BASE M/Z: 41
RIC: 5603320.



MID Library Search Data: 14558RN6 #1358 Base m/z: 41
08/28/87 0:43:00 - 21:45 Cali: 14558RN6 # 2 RIC: 5603320.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML/1:10 DILUTION, 1.0 UL INJECTION
Enhanced (E 158 2N 0T)

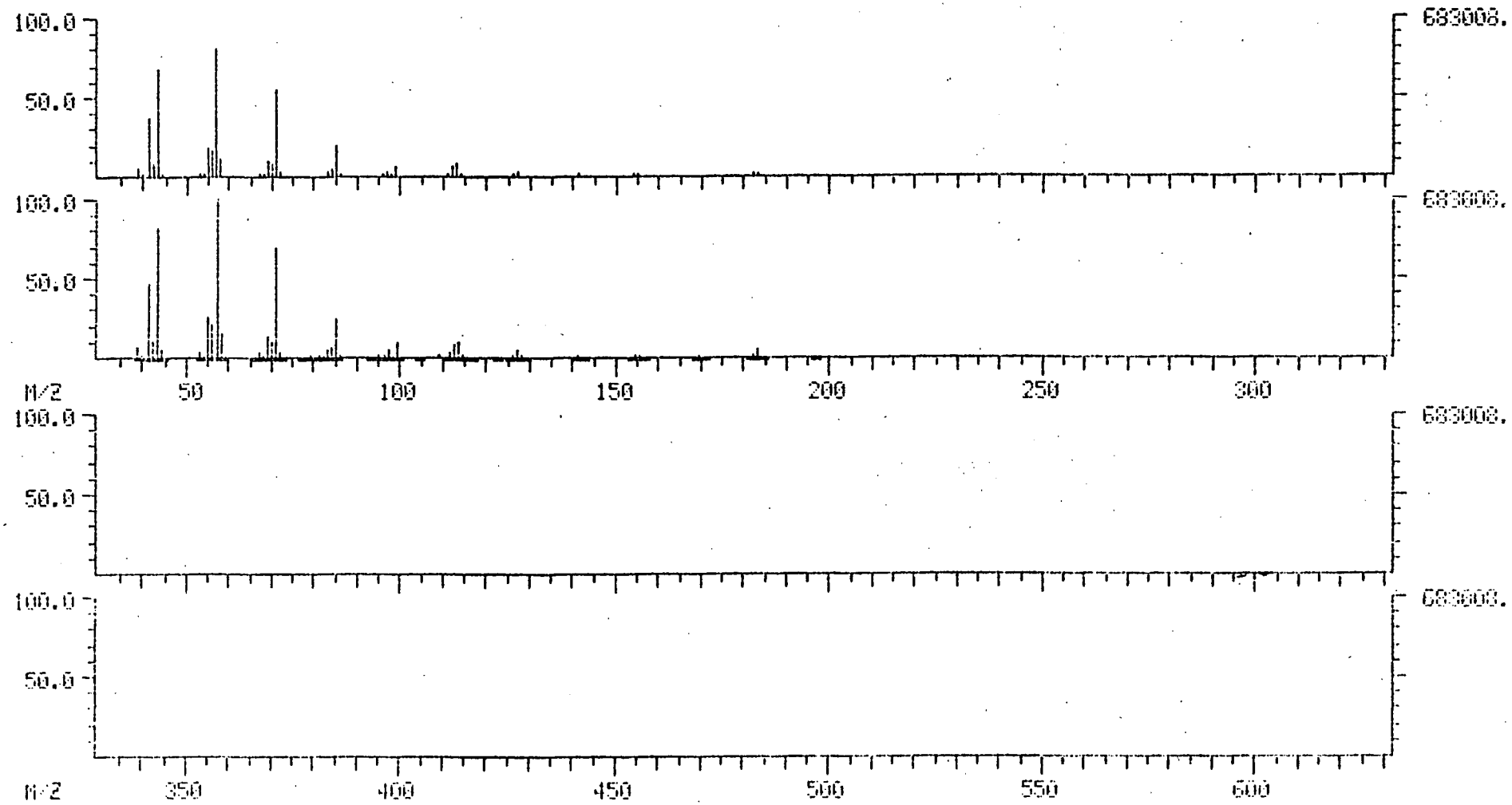
Rank	In.	Name
1	3674	CYCLOOCTANONE
2	3740	CYCLOOCTANONE, 2-METHYL-
3	3266	3-OCTENE, (Z)-
4	3271	HEPTANE, 4-METHYLENE-
5	3757	CYCLOPENTANE, 1-METHYL-2-PROPYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H14.O	126	55	367	869	383
2	C9.H16.O	140	55	358	865	374
3	C8.H16	112	41	333	859	380
4	C8.H16	112	56	332	856	342
5	C9.H18	126	55	356	855	381

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	502-49-8
2	———	———	———	———	10363-27-6
3	———	———	———	———	14850-22-7
4	———	———	———	———	15918-08-8
5	———	———	———	———	3728-57-2

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 21:50
SAMPLE: 14558-6
CONDS.: 10.44 CMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 200 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1363 BASE M/Z: 57/ 57
CALI: 14558RN6 #2 RIC: 2764790./ 3747830.

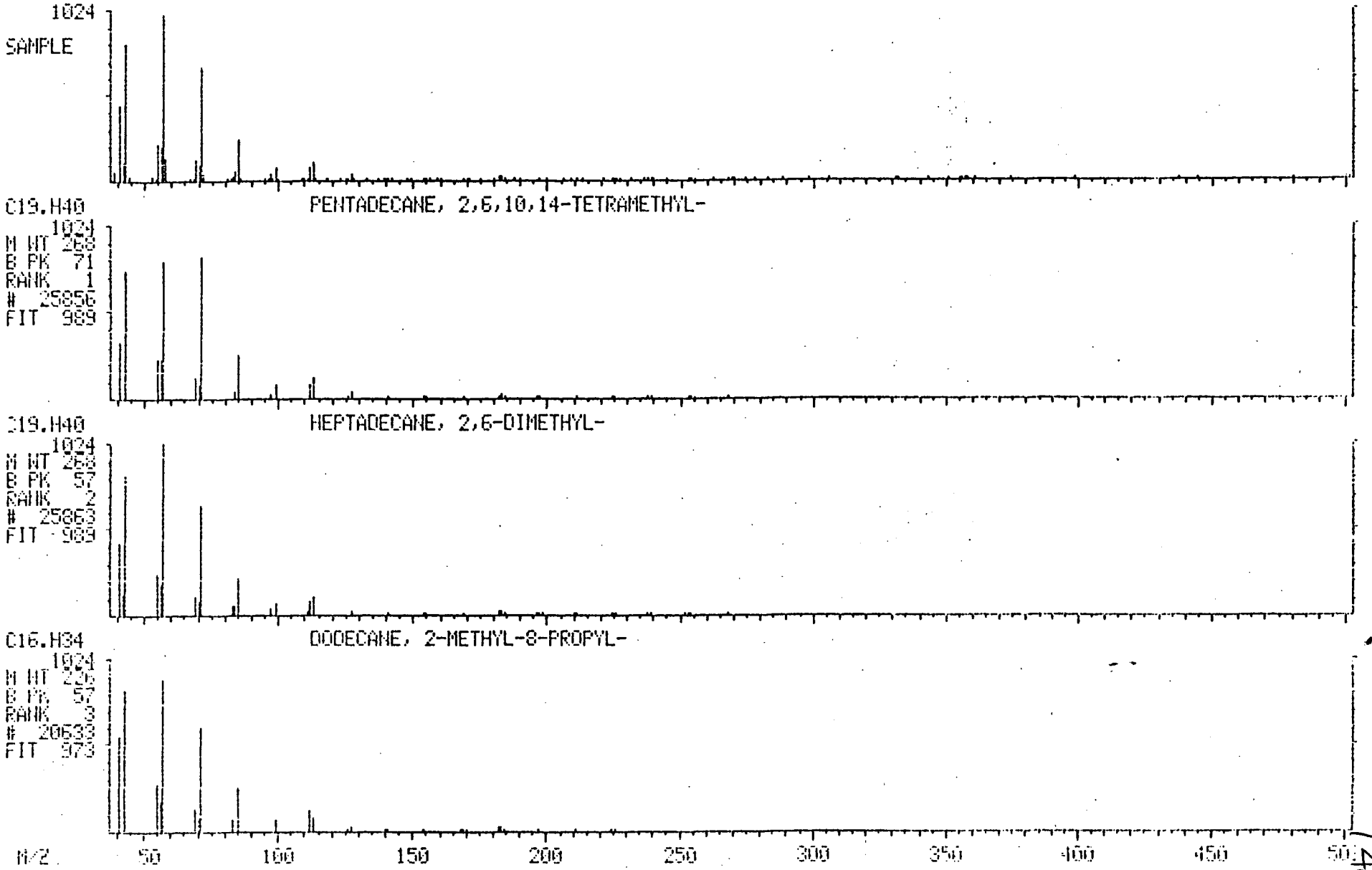


1461

MID LIBRARY SEARCH
08/26/87 0:43:00 + 21:50
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1363
CALI: 14558RN6 # 2

BASE M/Z: 57
RIC: 2744310.



1462

MID Library Search Data: 14558RN6 #1363 Base m/z: 57
08/26/87 0:43:00 + 21:50 Cali: 14558RN6 # 2 RIC: 2744310.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	25856	PENTADECANE, 2,6,10,14-TETRAMETHYL-
2	25863	HEPTADECANE, 2,6-DIMETHYL-
3	20633	DODECANE, 2-METHYL-8-PROPYL-
4	20637	TRIDECANE, 5-PROPYL-
5	20625	PENTADECANE, 2-METHYL-

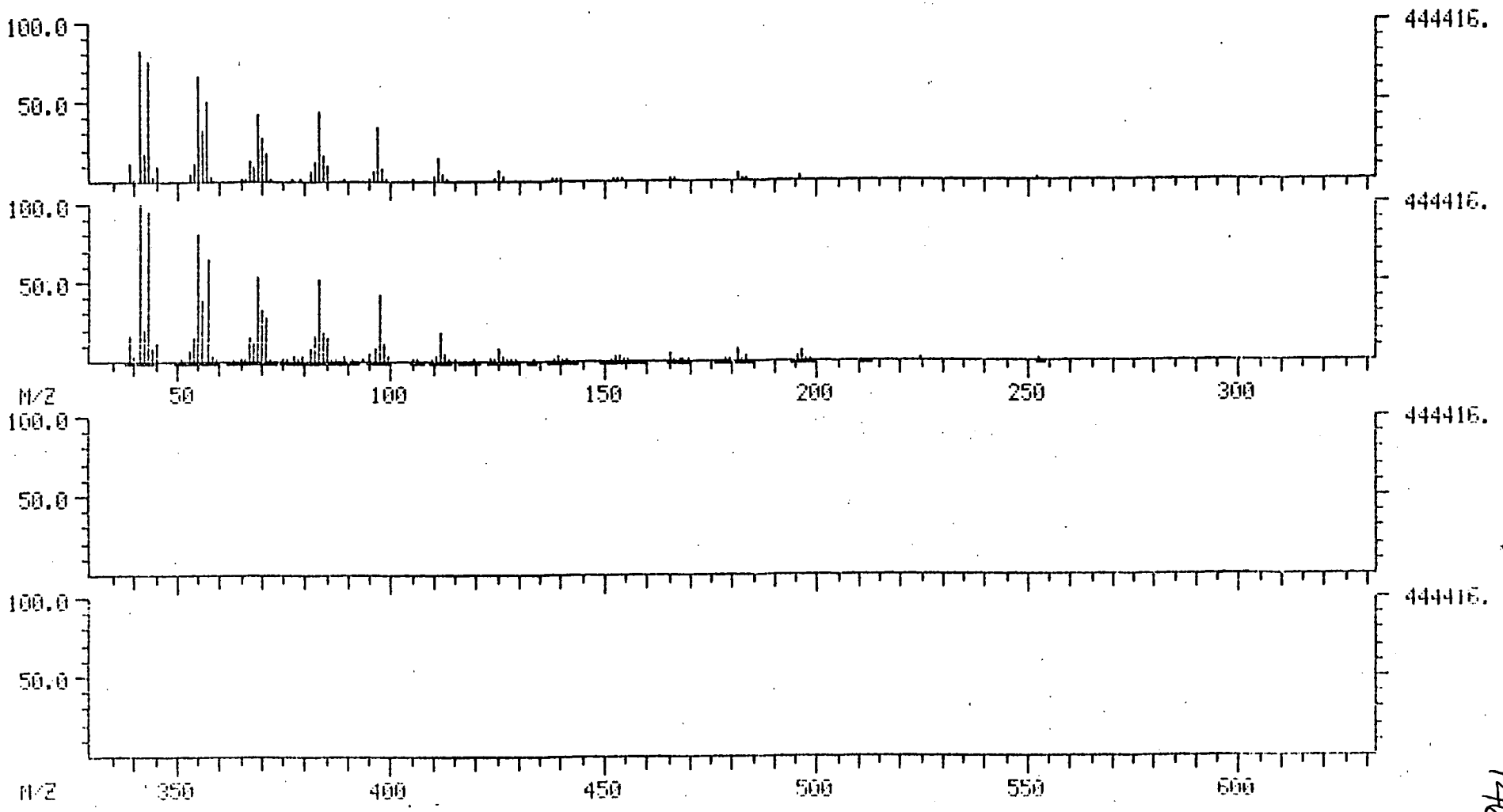
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	71	865	989	866
2	C19.H40	268	57	887	989	890
3	C16.H34	226	57	816	973	825
4	C16.H34	226	57	819	972	831
5	C16.H34	226	57	805	964	810

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	----	----	----	----	1921-70-6
2	----	----	----	----	54105-67-8
3	----	----	----	----	55045-07-3
4	----	----	----	----	55045-11-9
5	----	----	----	----	1560-93-6

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 23:05
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 210 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1441
CALI: 14558RN6 #2

BASE M/Z: 41/ 41
RIC: 3117050./ 4227070.

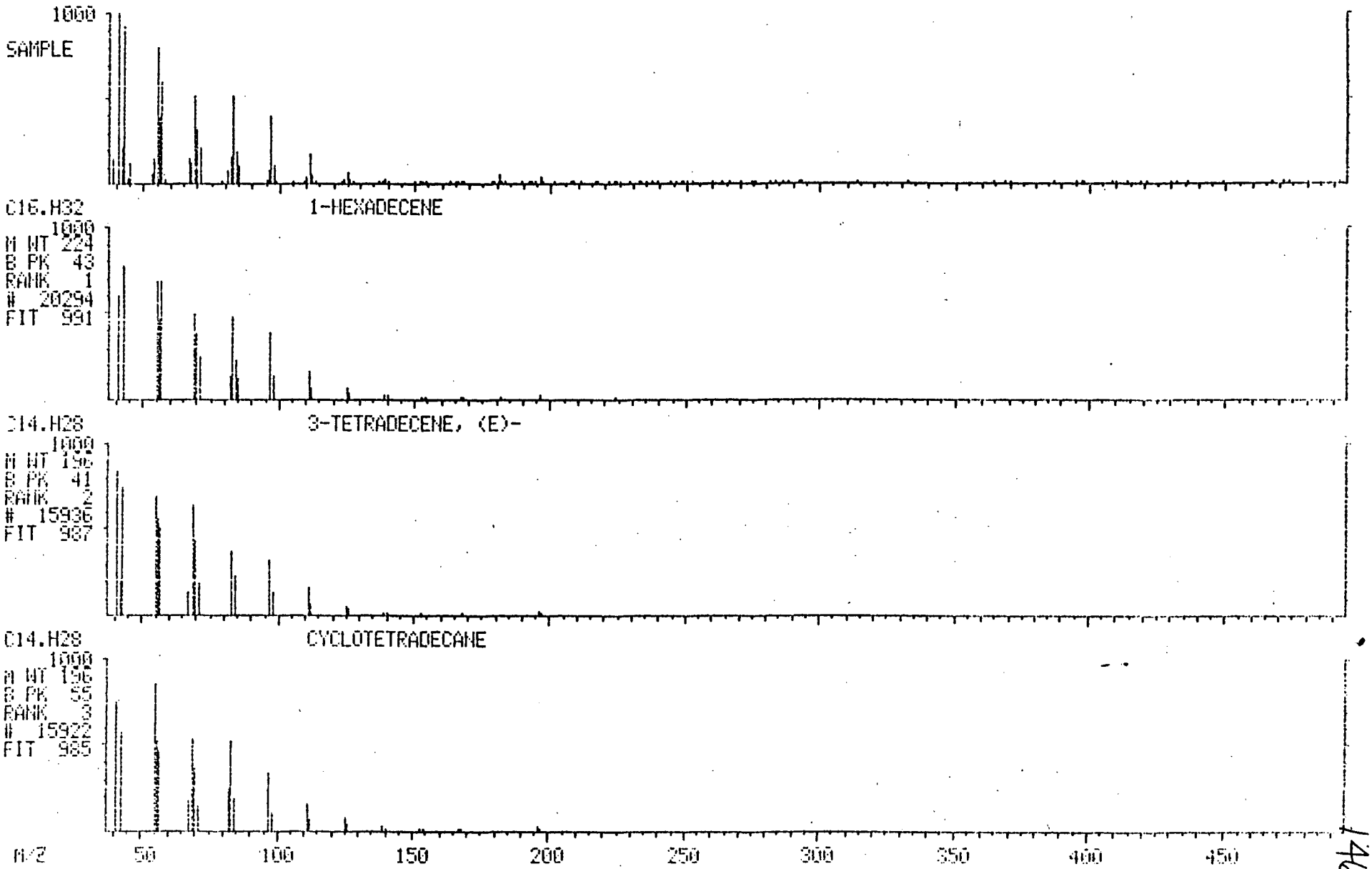


1462

MID LIBRARY SEARCH
08/26/87 0:43:00 + 23:05
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 158 2N 0T)

DATA: 14558RN6 #1441
CALI: 14558RN6 # 2

BASE M/Z: 41
RIC: 3047420.



MID Library Search Data: 14558RN6 #1441 Base m/z: 41
08/26/87 0:43:00 + 23:03 Cali: 14558RN6 # 2 RIC: 3047420.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	20294	1-HEXADECENE
2	15936	3-TETRADECENE, (E)-
3	15922	CYCLOTETRADECANE
4	15933	7-TETRADECENE, (E)-
5	15932	7-TETRADECENE, (Z)-

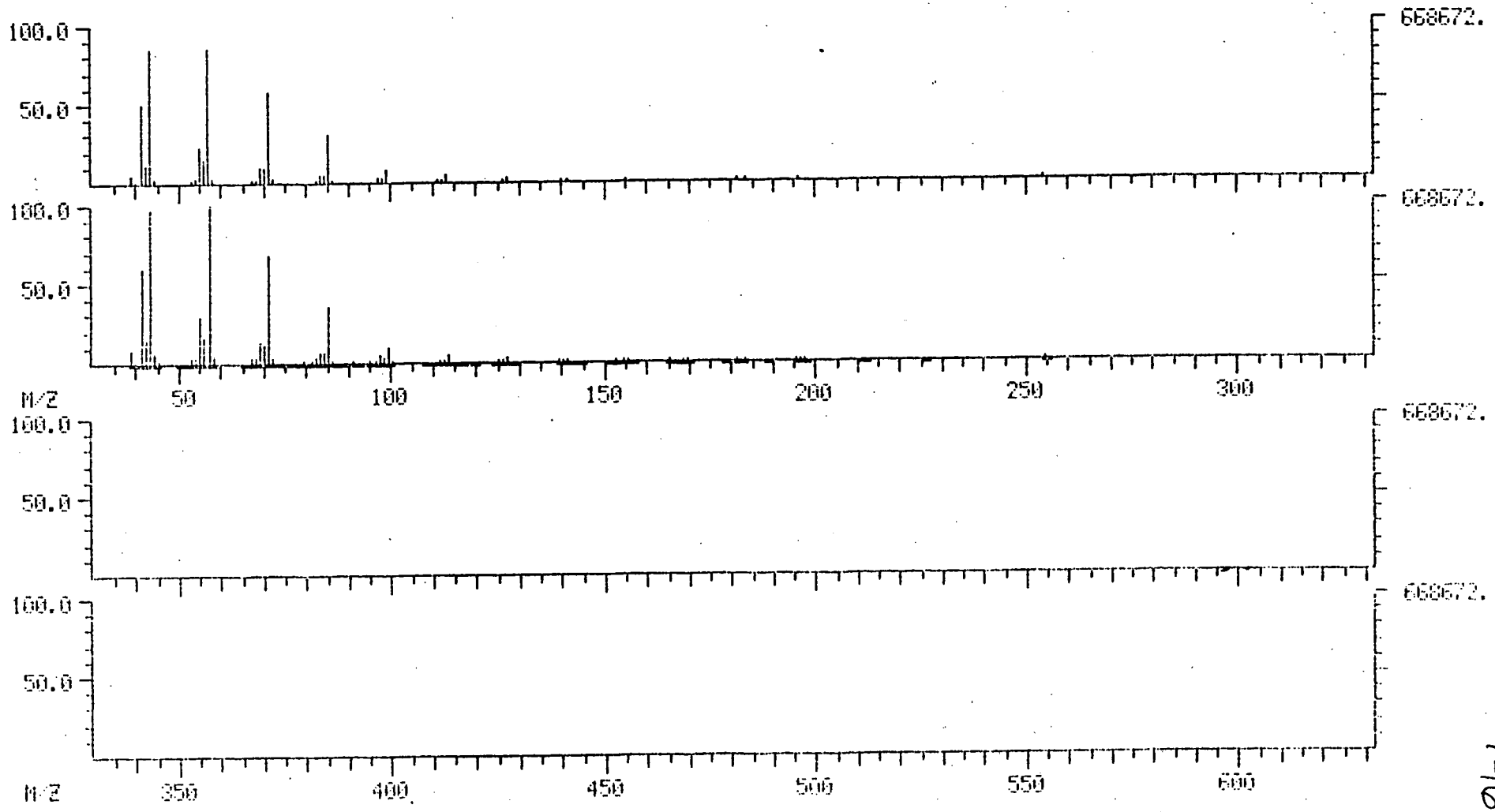
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H32	224	43	777	991	777
2	C14.H28	196	41	758	987	758
3	C14.H28	196	55	765	985	765
4	C14.H28	196	55	749	984	749
5	C14.H28	196	55	756	981	756

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	----	----	----	----	629-73-2
2	----	----	----	----	41446-68-8
3	----	----	----	----	295-17-0
4	----	----	----	----	41446-63-3
5	----	----	----	----	41446-60-0

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 23:10
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 211 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1447
CALI: 14558RN6 #2

BASE M/Z: 57/ 57
RIC: 3063800./ 3948540.

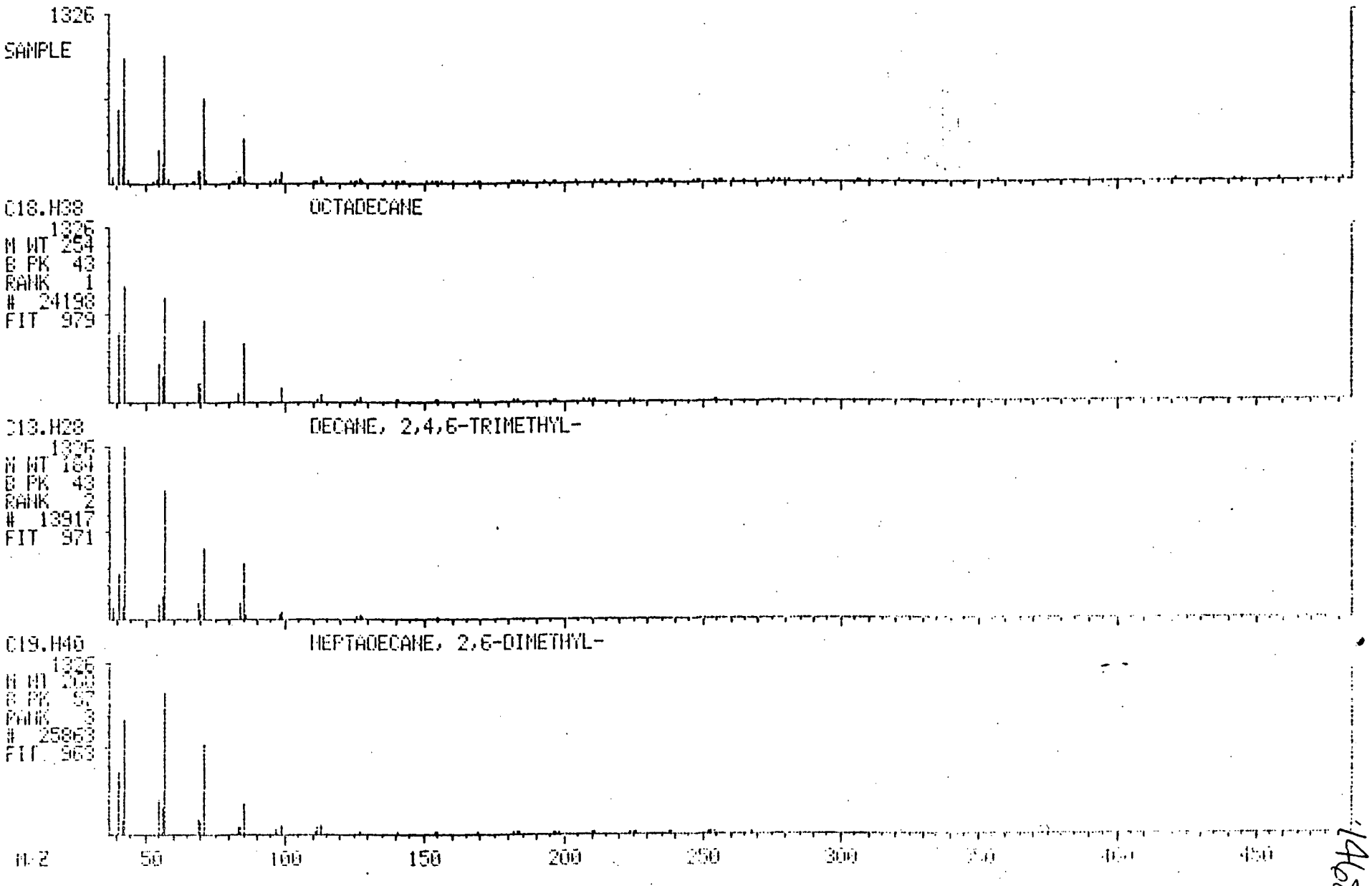


1467

MID LIBRARY SEARCH
08/26/87 0:43:00 + 23:10
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1447
CALI: 14558RN6 # 2

BASE M/Z: 57
RIC: 3047420.



1468

MID Library Search Data: 14558RN6 #1447 Base m/z: 57
08/26/87 0:43:00 + 23:10 Cali: 14558RN6 # 2 RIC: 3047420.
Sample: 14558-6
Conds.: 10.44 GMB/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (8 150 EN 07)

Rank	In.	Name
1	24198	OCTADECANE
2	13917	DECANE, 2, 4, 6-TRIMETHYL-
3	23862	HEPTADECANE, 2, 6-DIMETHYL-
4	11940	HYDROXYLAMINE, O-DECYL-
5	36166	IRON, TRICARBONYL(N-(PHENYL-2-PYRIDINYLMETHYLENE)BENZENAMINE-N, N')-

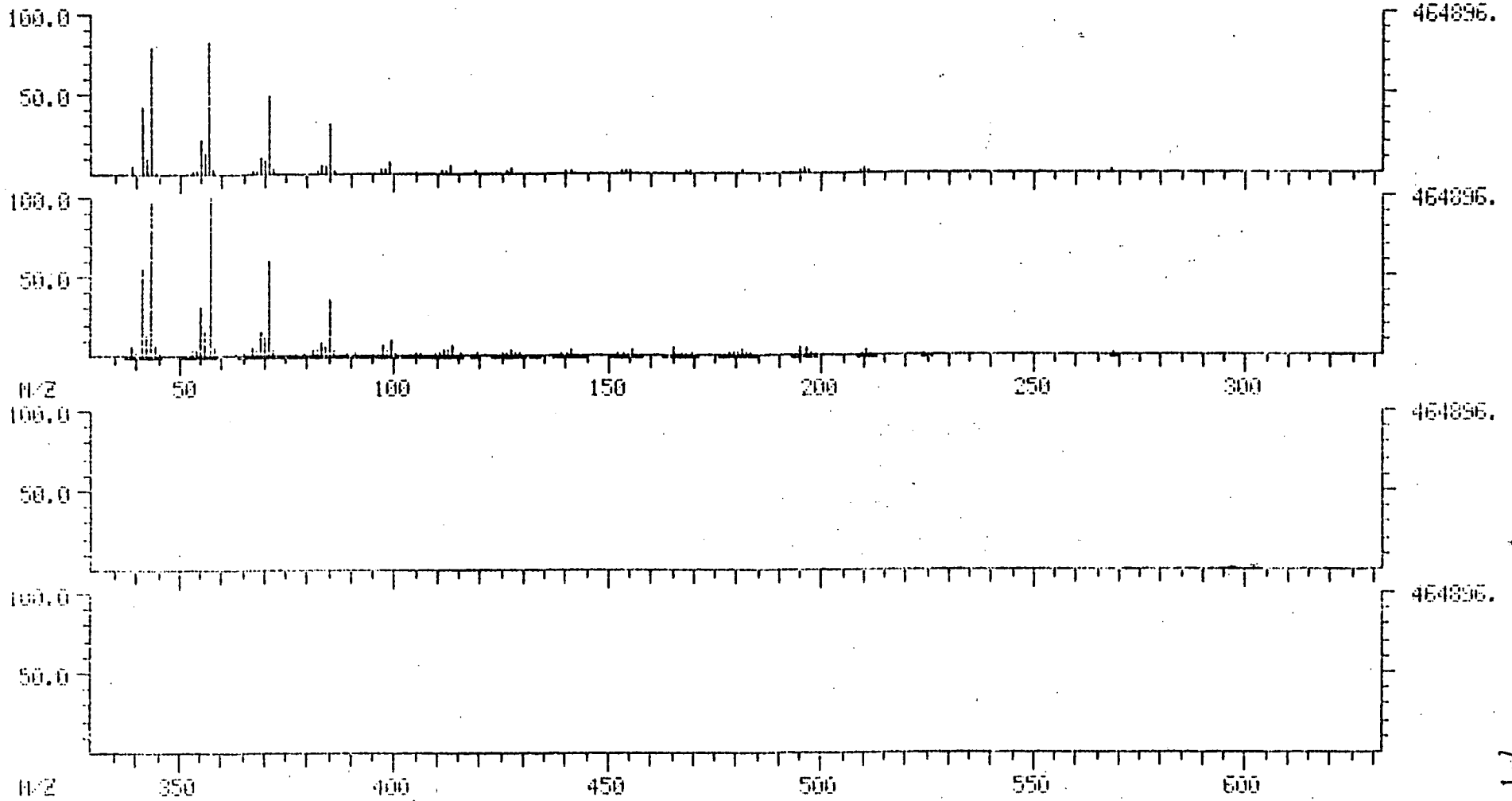
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H38	254	43	836	979	845
2	C13.H28	184	43	779	971	779
3	C19.H40	268	57	850	963	856
4	C10 H23.O.N	173	43	780	958	782
5	C21.H14.O3.N2.FE	398	57	825	958	846

Rank	Ret. Time	S.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	----	----	----	----	593-45-3
2	----	----	----	----	62108-27-4
3	----	----	----	----	54105-67-8
4	----	----	----	----	29812-79-1
5	----	----	----	----	74764-11-7

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 24:32
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 222 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1532
CALI: 14558RN6 #2

BASE M/Z: 57/ 57
RIC: 2091000./ 3010550.

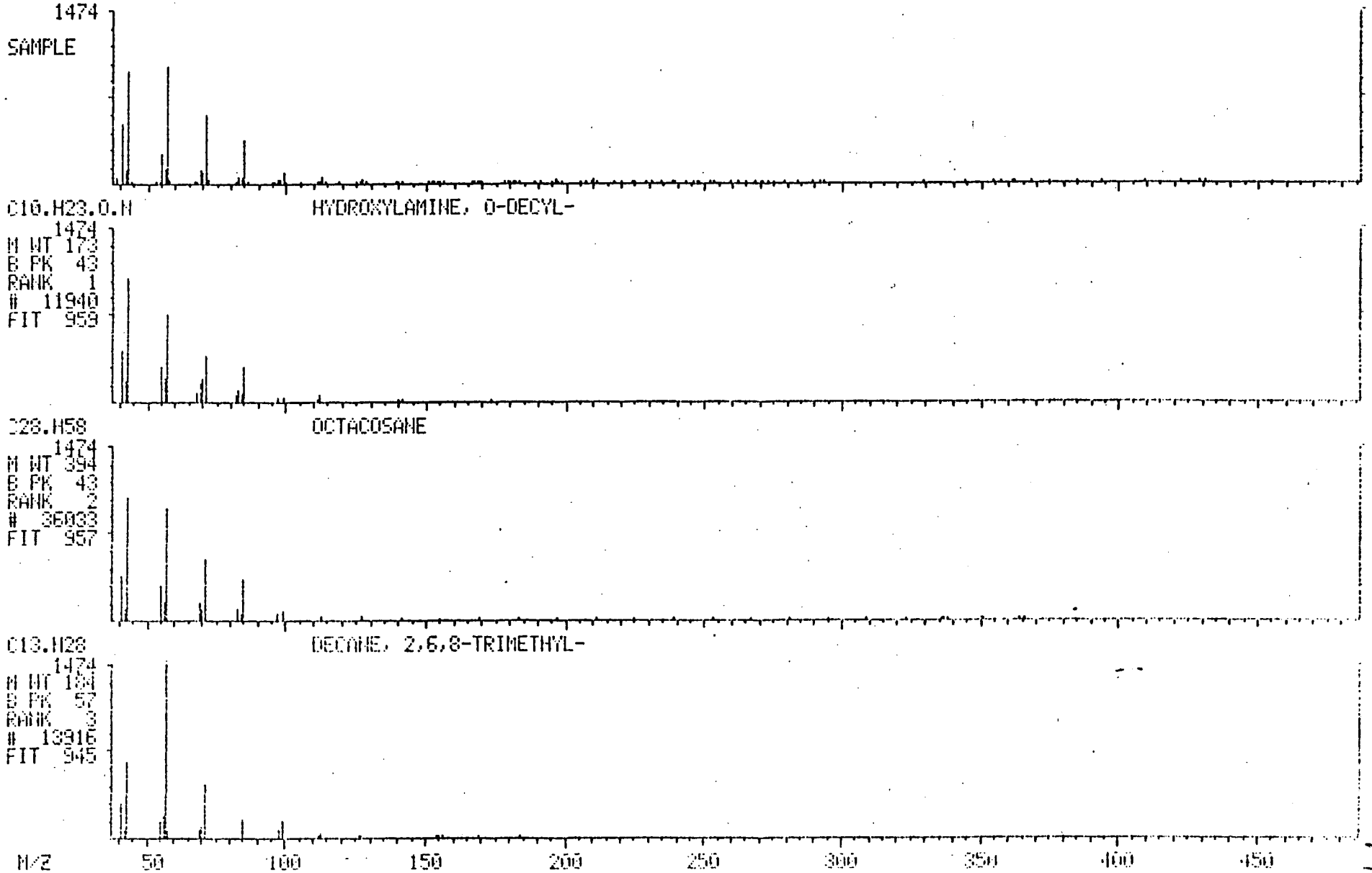


147C

MID LIBRARY SEARCH
08/26/87 0:43:00 + 24:32
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1532
CALI: 14558RN6 # 2

BASE M/Z: 57
RIC: 2058230.



1471

1472

MID Library Search Data: 14558RN6 #1532 Base m/z: 57
08/26.87 0:43:00 + 24:32 Cali: 14558RN6 # 2 RIC: 2058230.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

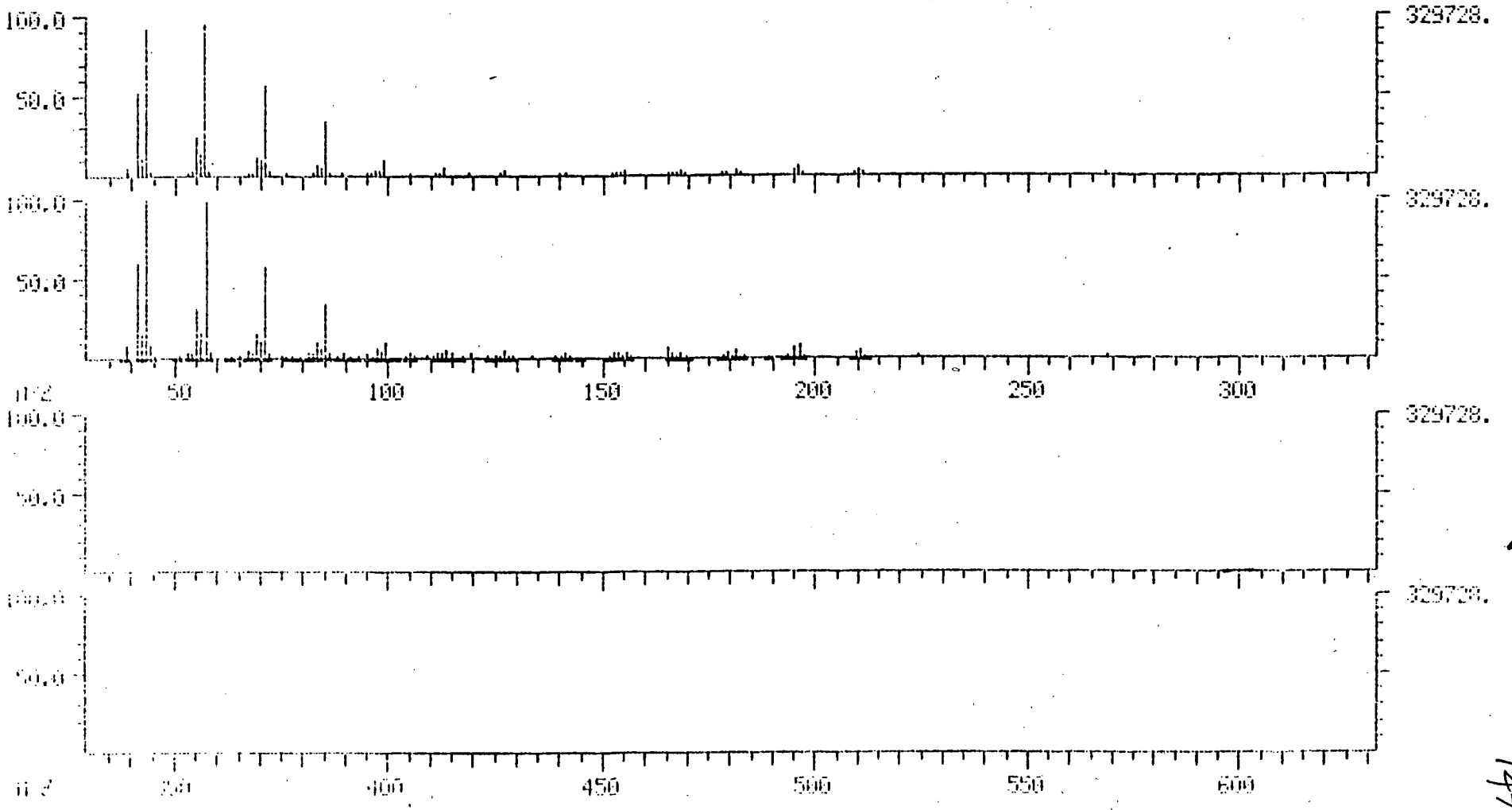
Rank	In.	Name
1	11940	HYDROXYLAMINE, O-DECYL-
2	36033	OCTACOSANE
3	13916	DECANE, 2,6,8-TRIMETHYL-
4	13880	UNDECANE, 3,8-DIMETHYL-
5	8733	OCTANE, 2,4,6-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H23.O.N	173	43	675	959	678
2	C28.H58	394	43	713	957	739
3	C13.H28	184	57	675	945	678
4	C13.H28	184	43	658	944	678
5	C11.H24	156	57	636	944	651

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	29812-79-1
2	___	___	___	___	630-02-4
3	___	___	___	___	62108-26-3
4	___	___	___	___	17301-30-3
5	___	___	___	___	62016-37-9

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 24:33
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 222 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1533 BASE M/Z: 57/ 43
CALI: 14558RN6 #2 RIC: 1767420./ 2293750.

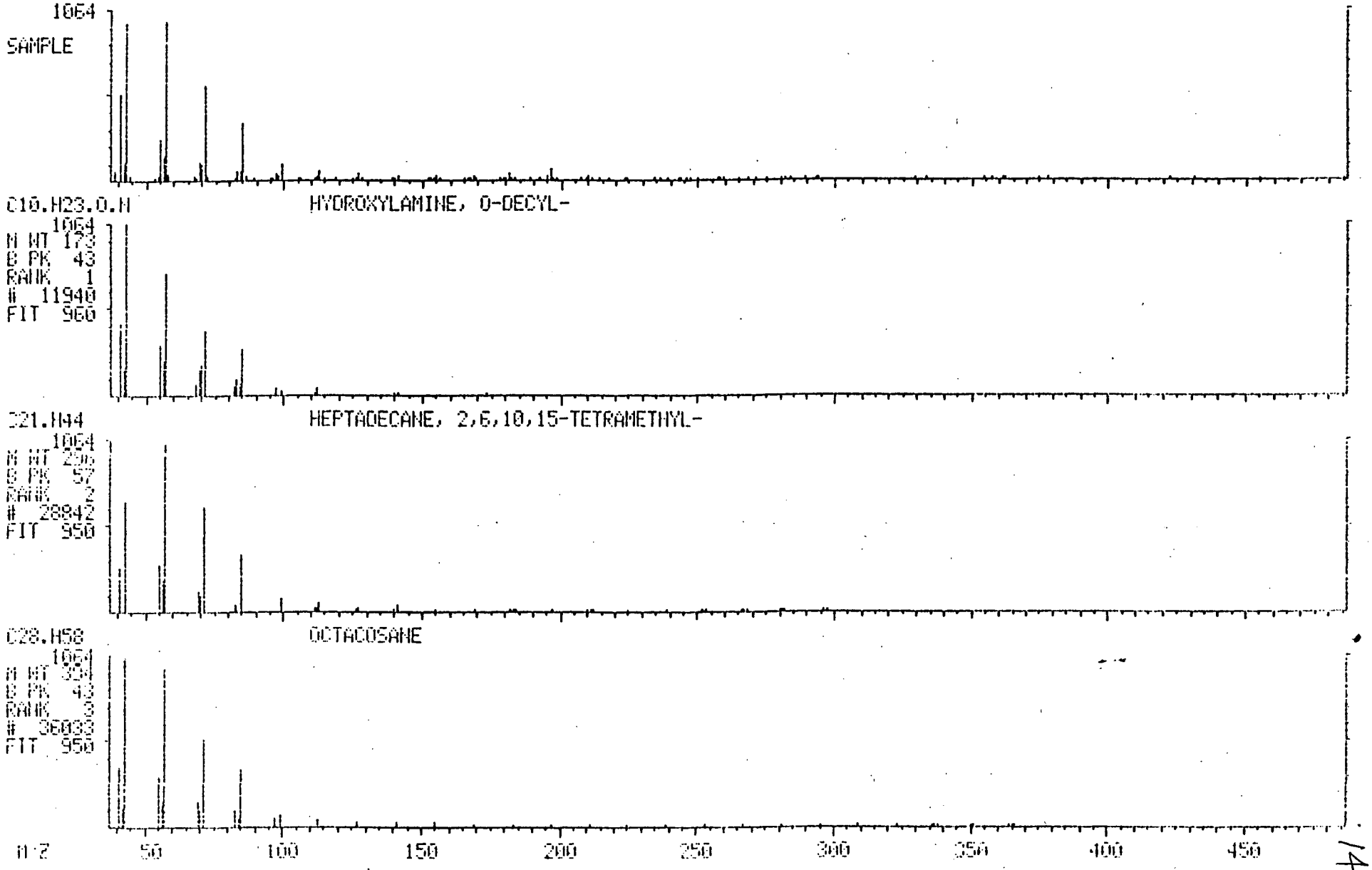


1473

MID LIBRARY SEARCH
08/26/87 0:43:00 + 24:33
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1533
CALI: 14558RN6 # 2

BASE M/Z: 57
RIC: 1730550.



MID Library Search Data: 1455SRN6 #1523 Base m/z: 57
08/26/87 0:43:00 + 24:33 Cali: 1455SRN6 # 2 RIC: 1730550.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

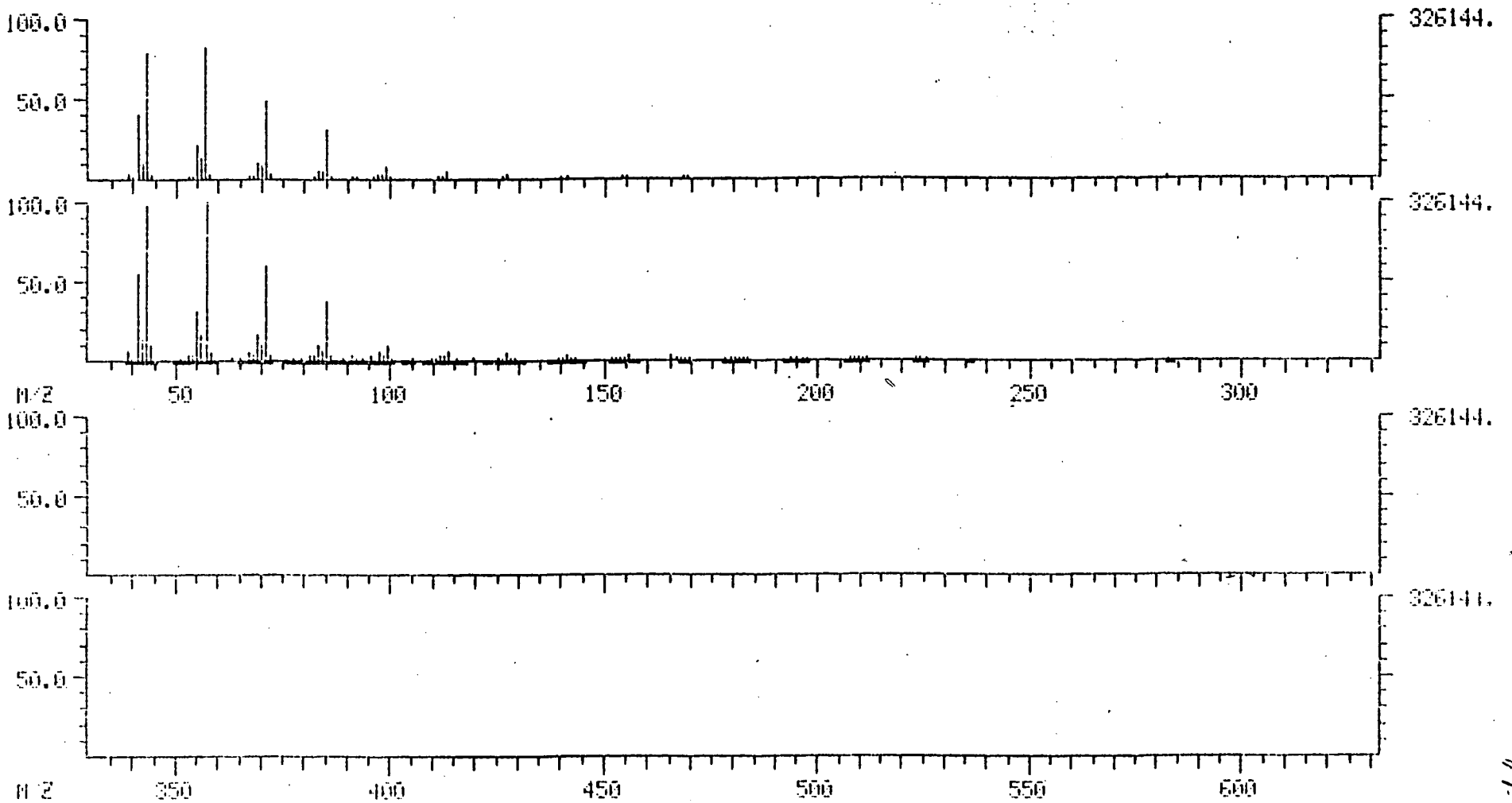
Rank	In.	Name
1	11940	HYDROXYLAMINE, O-DECYL-
2	29842	HEPTADECANE, 2,6,10,15-TETRAMETHYL-
3	36033	OCTACOSANE
4	13916	DECANE, 2,6,8-TRIMETHYL-
5	13890	UNDECANE, 3,8-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H23.O.N	173	43	653	960	656
2	C21.H44	296	57	700	950	709
3	C28.H58	394	43	683	950	713
4	C13.H28	184	57	654	945	656
5	C13.H28	184	43	635	942	654

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	----	----	----	----	29812-79-1
2	----	----	----	----	54833-48-6
3	----	----	----	----	630-02-4
4	----	----	----	----	62108-26-3
5	----	----	----	----	17301-30-3

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 25:51
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 232 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1614 BASE M/Z: 57/ 57
CALI: 14558RN6 #2 RIC: 1409020./ 2129910.

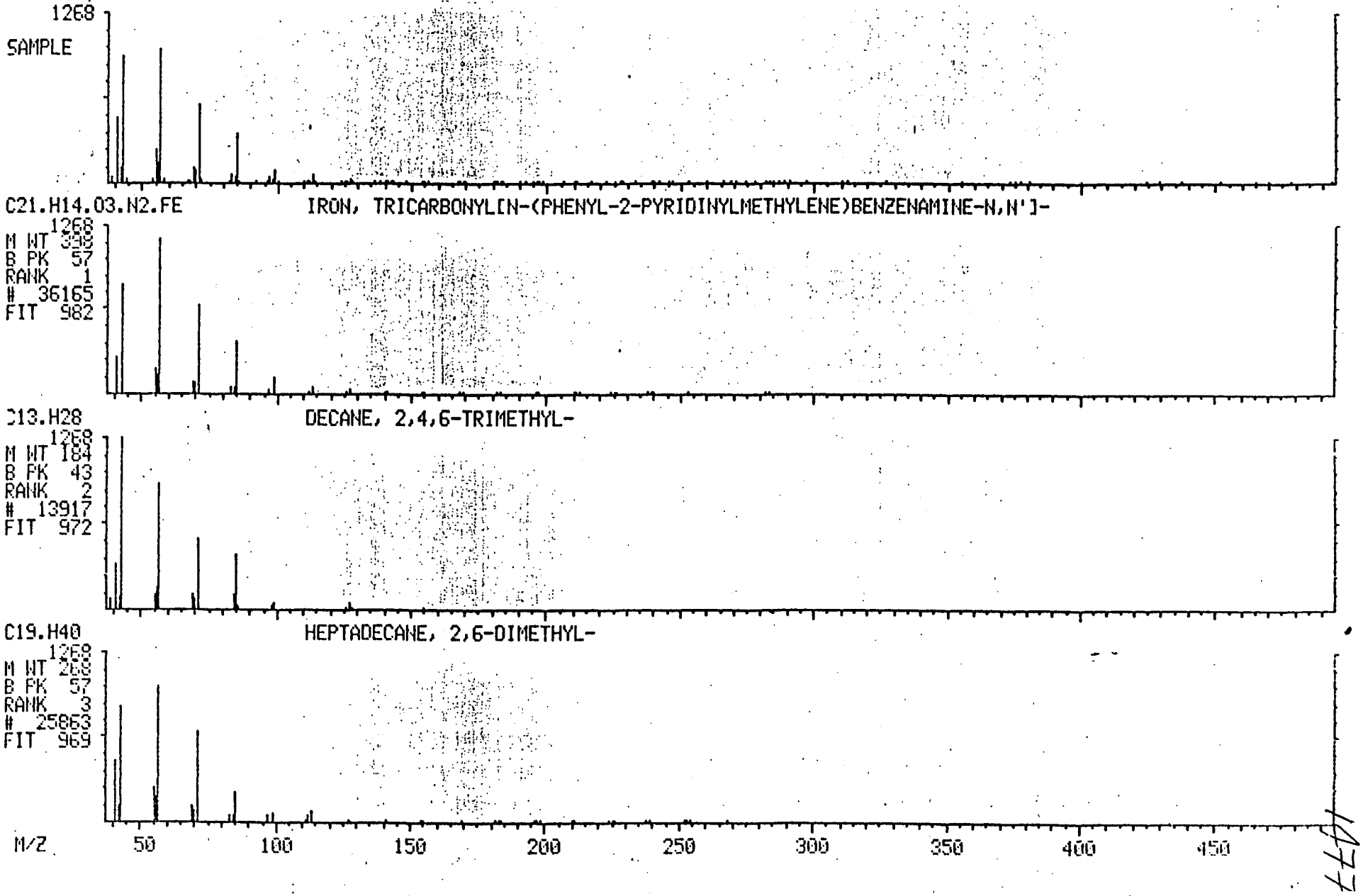


1476

MID LIBRARY SEARCH
08/26/87 0:43:00 + 25:51
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1614
CALI: 14558RN6 # 2

BASE M/Z: 57
RIC: 1388540.



1073

MID Library Search Data: 14558RN6 #1614 Base m/z: 57
08/26/87 0:43:00 + 25:51 Cali: 14558RN6 # 2 RIC: 1388540.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	36165	IRON, 'TRICARBONYL[N-(PHENYL-2-PYRIDINYLMETHYLENE)BENZENAMINE-N,N']-
2	13917	DECANE, 2,4,6-TRIMETHYL-
3	25863	HEPTADECANE, 2,6-DIMETHYL-
4	30170	DOCOSANE
5	36033	OCTACOSANE

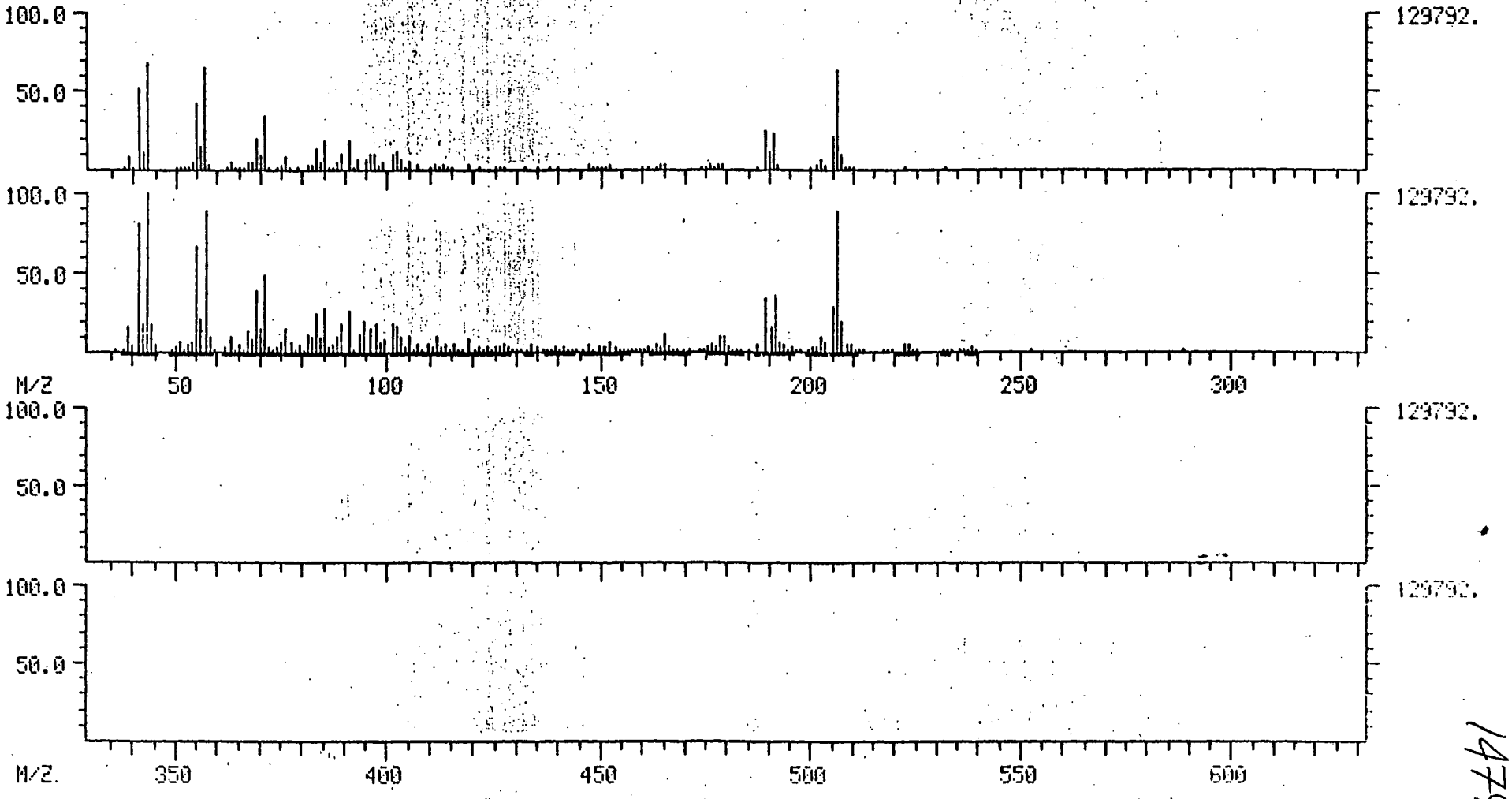
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C21.H14.O3.N2.FE	398	57	851	982	855
2	C13.H28	184	43	743	972	743
3	C19.H40	268	57	828	969	835
4	C22.H46	310	57	807	966	822
5	C28.H58	394	43	788	961	815

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	74764-11-7
2	___	___	___	___	62108-27-4
3	___	___	___	___	54105-67-8
4	___	___	___	___	629-97-0
5	___	___	___	___	630-02-4

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 27:00
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 242 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1686
CALI: 14558RN6 #2

BASE M/Z: 43/ 43
RIC: 1032190./ 1904630.

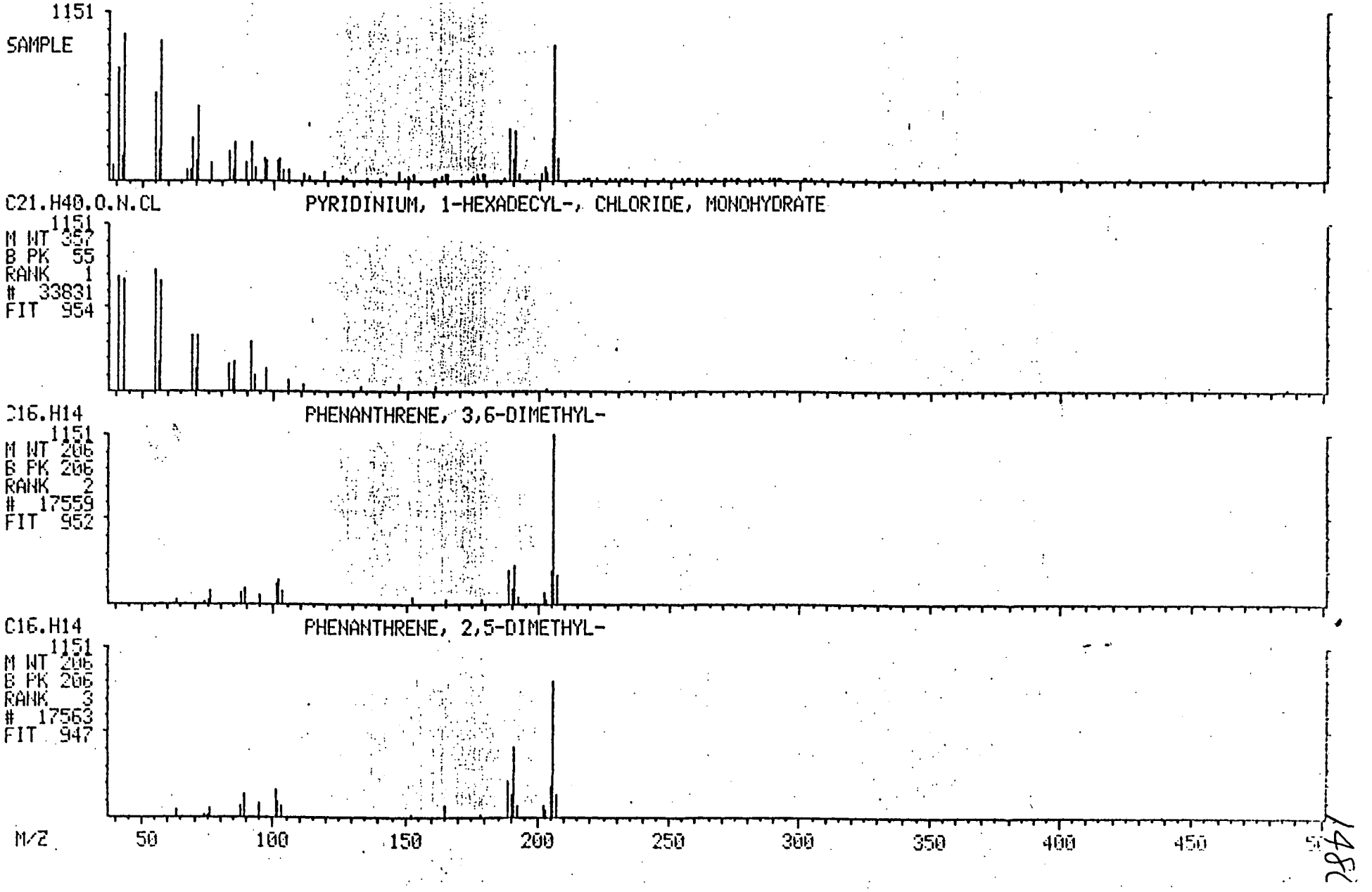


1479

MID LIBRARY SEARCH
08/26/87 0:43:00 + 27:00
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1686
CALI: 14558RN6 # 2

BASE M/Z: 43
RIC: 899071.



148

MID Library Search Data: 14558RN6 #1686 Base m/z: 43
08/26/87 0:43:00 + 27:00 Cali: 14558RN6 # 2 RIC: 899071.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	33831	PYRIDINIUM, 1-HEXADECYL-, CHLORIDE, MONOHYDRATE
2	17559	PHENANTHRENE, 3,6-DIMETHYL-
3	17563	PHENANTHRENE, 2,5-DIMETHYL-
4	17562	PHENANTHRENE, 2,3-DIMETHYL-
5	14632	1H-1,2,4-TRIAZOLIUM, 3-HYDROXY-4,5-DIMETHYL-1-PHENYL-, HYDROXIDE, I*

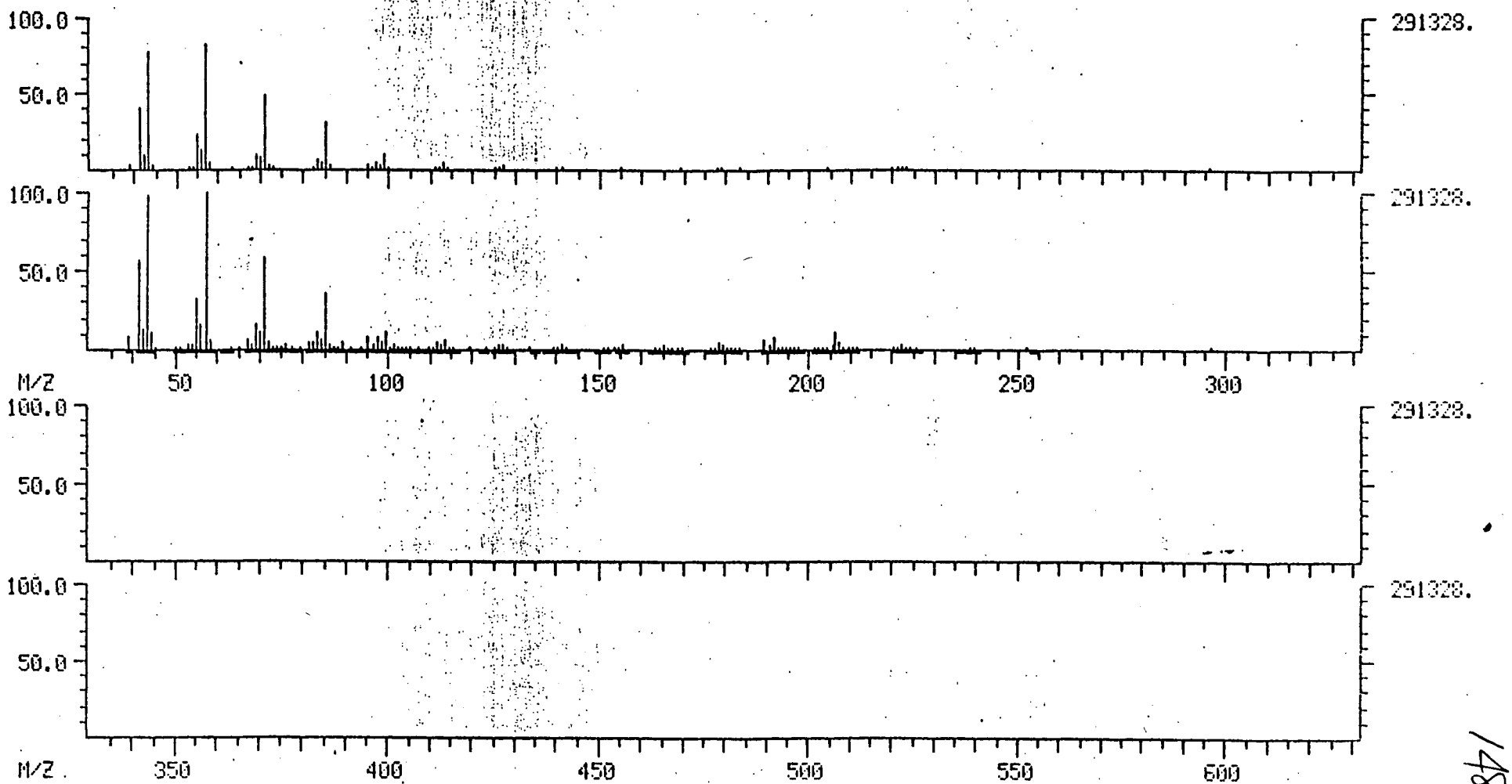
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C21.H40.O.N.CL	357	55	325	954	331
2	C16.H14	206	206	497	952	513
3	C16.H14	206	206	495	947	513
4	C16.H14	206	206	480	946	495
5	C10.H11.O.N3	189	189	94	941	95

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	6004-24-6
2	___	___	___	___	1576-67-6
3	___	___	___	___	3674-66-6
4	___	___	___	___	3674-65-5
5	___	___	___	___	40727-00-2

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 27:06
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 243 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1692
CALI: 14558RN6 #2

BASE M/Z: 57/ 57
RIC: 1320950./ 2252790.

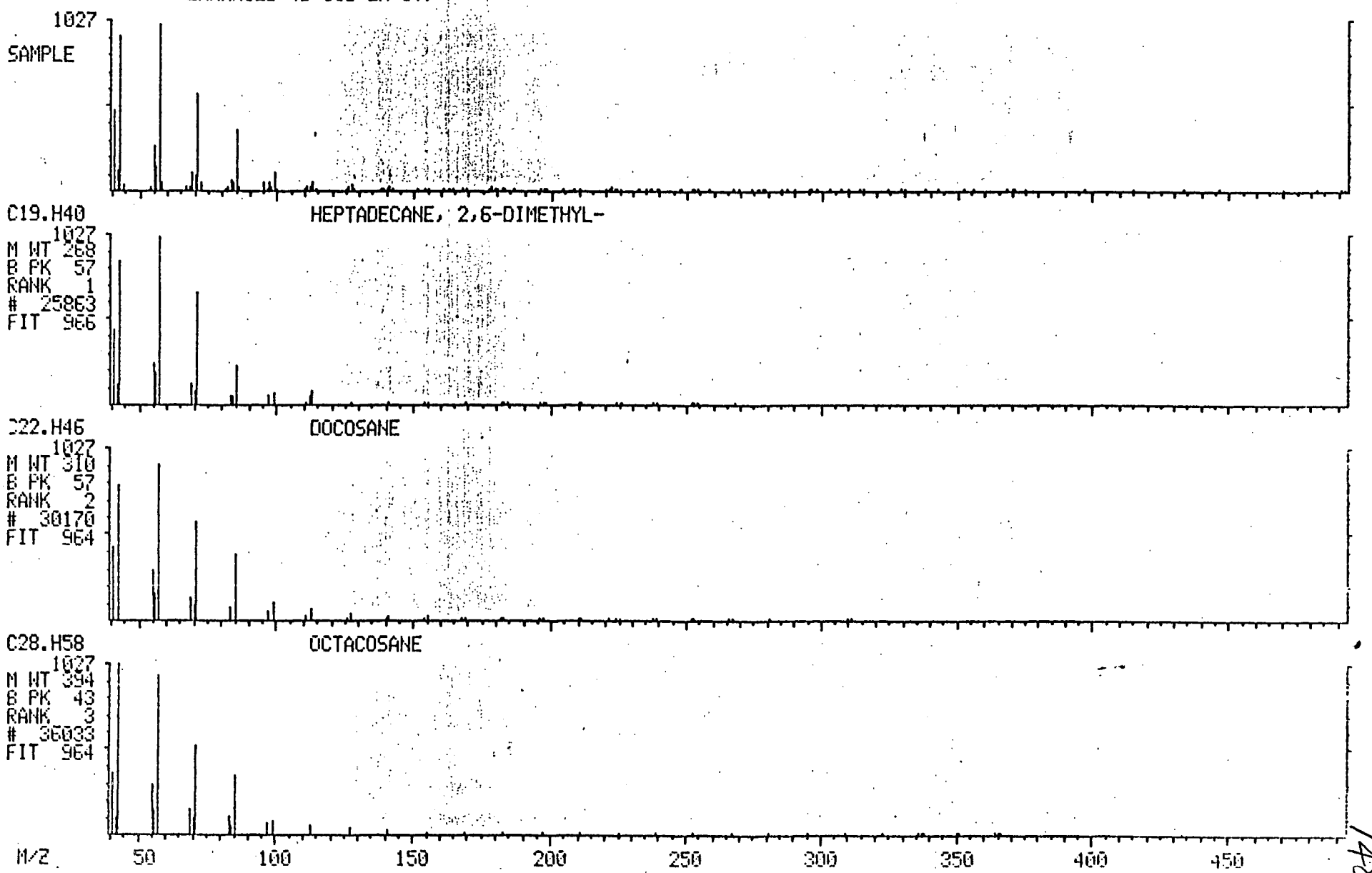


1482

MID LIBRARY SEARCH
08/26/87 0:43:00 + 27:06
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1692
CALI: 14558RN6 # 2

BASE M/Z: 57
RIC: 1286140.



1483

MID Library Search Data: 14558RN6 #1692 Base m/z: 57
08/26/87 0:43:00 + 27:06 Cali: 14558RN6 # 2 RIC: 1286140.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	25863	HEPTADECANE, 2,6-DIMETHYL-
2	30170	DOCOSANE
3	36033	OCTACOSANE
4	11940	HYDROXYLAMINE, O-DECYL-
5	39695	PENTATRIACONTANE

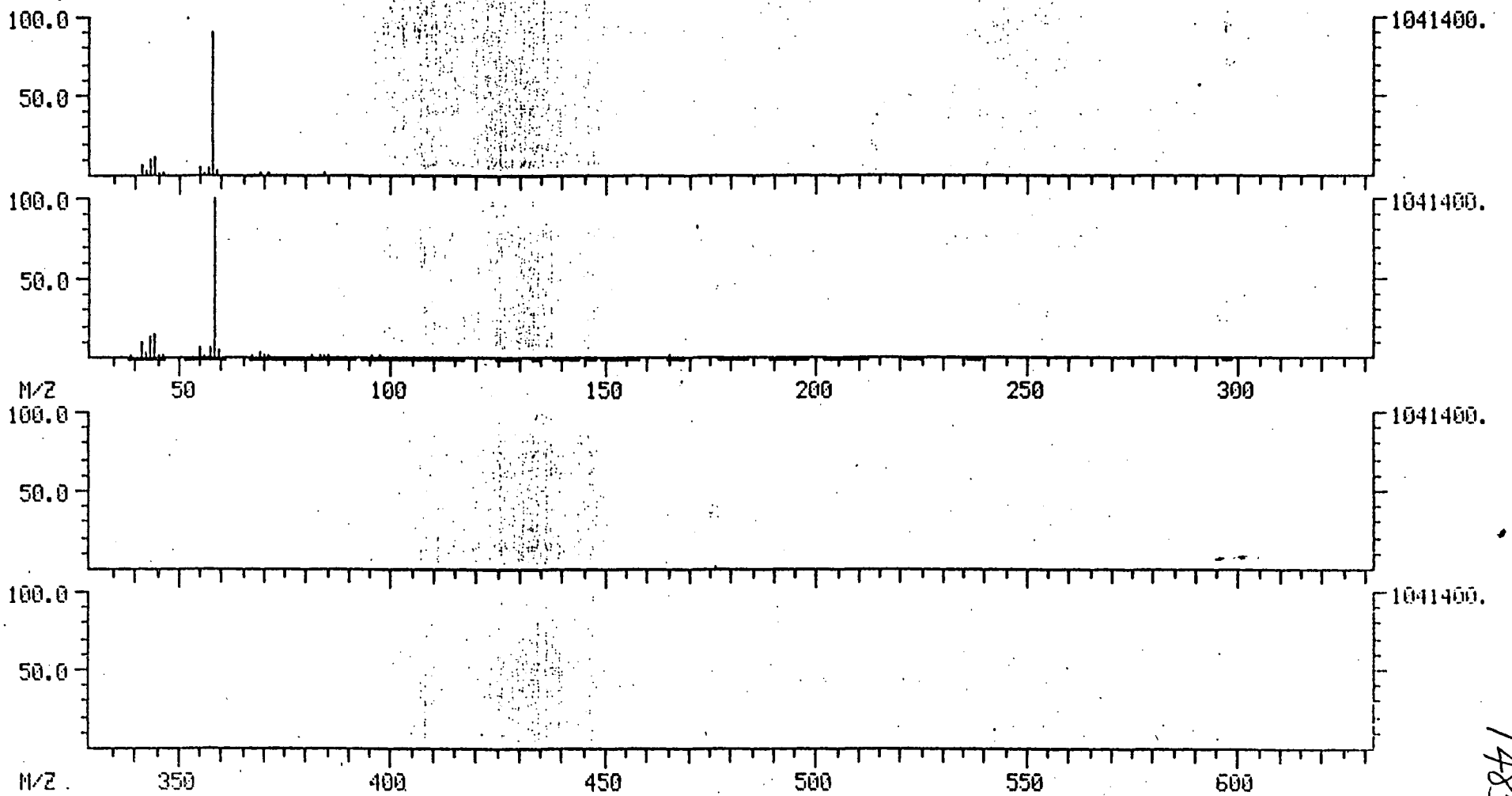
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	57	750	966	756
2	C22.H46	310	57	739	964	752
3	C28.H58	394	43	715	964	734
4	C10.H23.O.N	173	43	683	961	685
5	C35.H72	492	57	723	959	740

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	54105-67-8
2	___	___	___	___	629-97-0
3	___	___	___	___	630-02-4
4	___	___	___	___	29812-79-1
5	___	___	___	___	630-07-9

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 27:12
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 243 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1698
CALI: 14558RN6 #2

BASE M/Z: 58/ 58
RIC: 1560570./ 2326520.

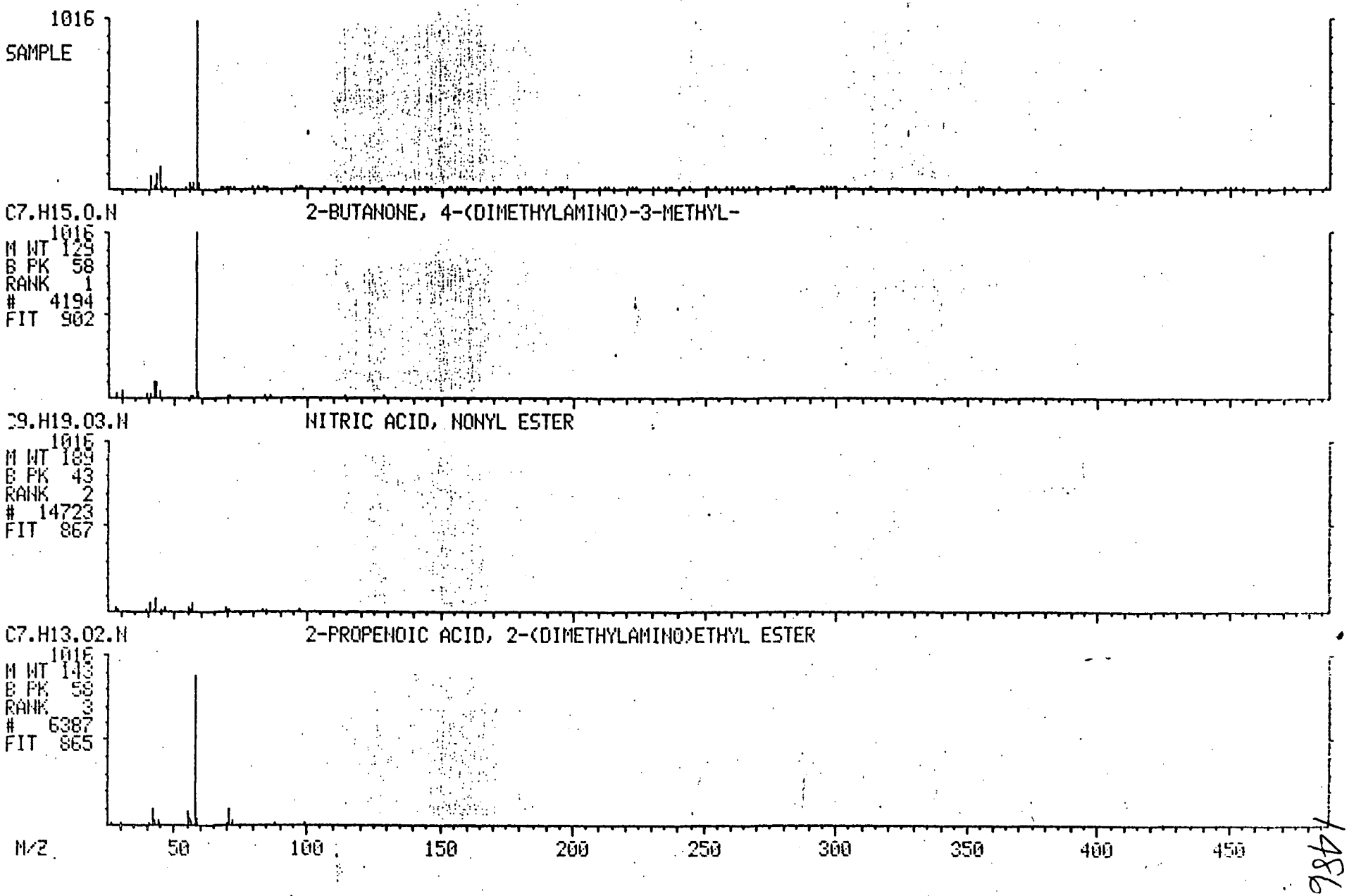


1485

MID LIBRARY SEARCH
08/26/87 0:43:00 + 27:12
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1698
CALI: 14558RN6 # 2

BASE M/Z: 58
RIC: 1550330.



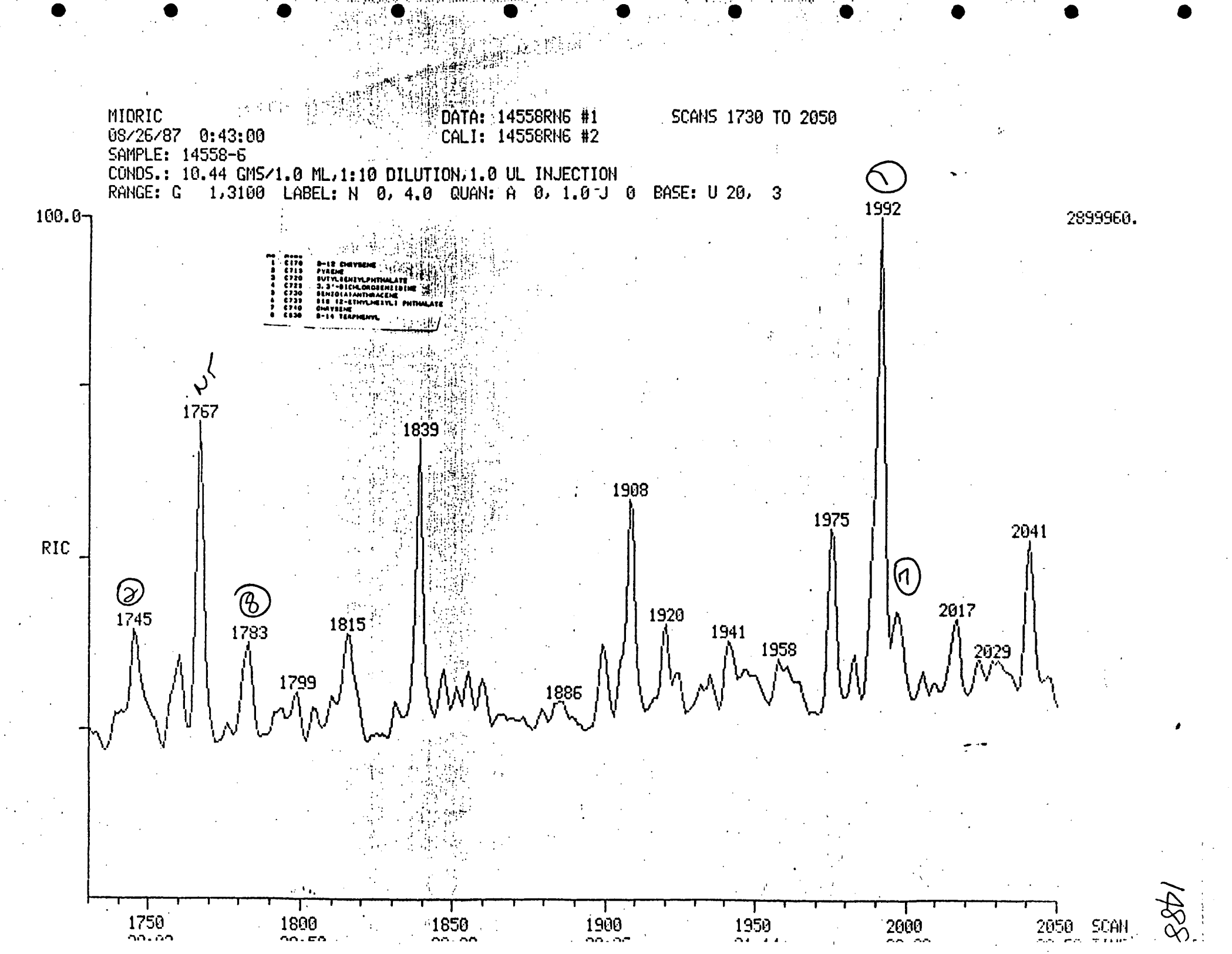
4986

MID Library Search Data: 14558RN6 #1698 Base m/z: 58
08/26/87 0:43:00 + 27:12 Cali: 14558RN6 # 2 RIC: 1550330.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	4194	2-BUTANONE, 4-(DIMETHYLAMINO)-3-METHYL-
2	14723	NITRIC ACID, NONYL ESTER
3	6387	2-PROPENOIC ACID, 2-(DIMETHYLAMINO)ETHYL ESTER
4	1491	1,2-ETHANEDIAMINE, N,N,N'-TRIMETHYL-
5	6173	2-PROPENAMIDE, N-[2-(DIMETHYLAMINO)ETHYL]-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C7.H15.O.N	129	58	724	902	758
2	C9.H19.O3.N	189	43	166	867	181
3	C7.H13.O2.N	143	58	706	865	726
4	C5.H14.N2	102	58	684	860	740
5	C7.H14.O.N2	142	58	696	852	715

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	22104-62-7
2	___	___	___	___	20633-13-0
3	___	___	___	___	2439-35-2
4	___	___	___	___	142-25-6
5	___	___	___	___	925-76-8


MIDRIC
08/26/87 0:43:00
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558RN6 #1
CALI: 14558RN6 #2
SCANS 1730 TO 2050
100.0
2899960.
RIC
1745
1767
1783
1799
1815
1839
1886
1908
1920
1941
1958
1975
1992
2017
2029
2041
1750
1800
1850
1900
1950
2000
2050
SCAN

Quantitation Report File: 14558RN6

Data: 14558RN6.TI
08/26/87 0:43:00
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558RN6

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

No	Name		
1	CI70	D-12 CHRYSENE	(INT. STD.)
2	C715	PYRENE	
3	C720	BUTYLBENZYLPHTHALATE	
4	C725	3,3'-DICHLOROBENZIDINE	
5	C730	BENZO(A)ANTHRACENE	
6	C745	BIS(2-ETHYLHEXYL) PHTHALATE	
7	C740	CHRYSENE	
8	CS30	D-14 TERPHENYL	(SURROGATE)

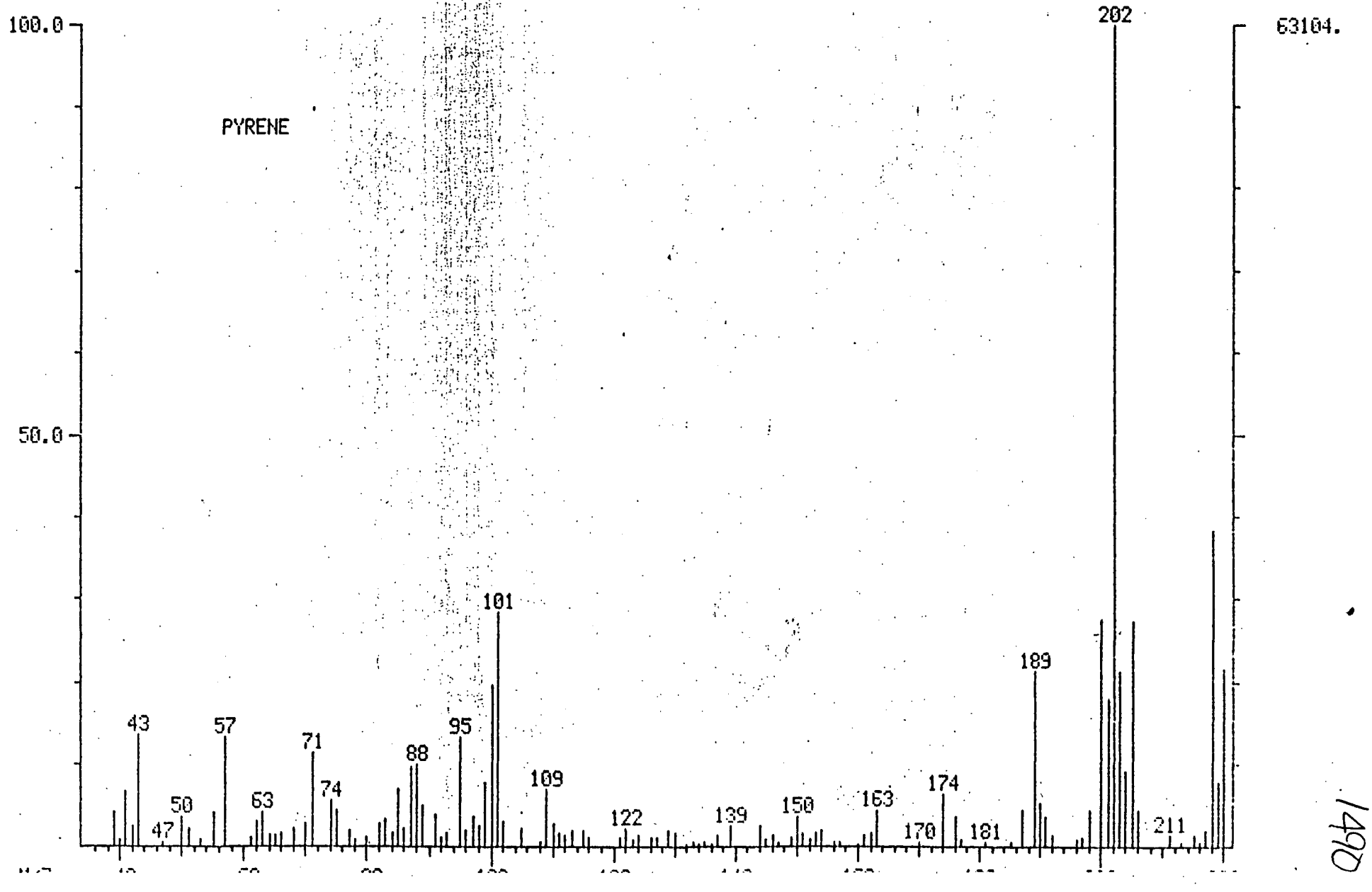
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	240	1992	31:54	1	1.000	A VV	1732130.	40.000 NG	65.95	
2	202	1745	27:57	1	0.876	A VB	226048.	3.710 NG	6.12	YES QQU
3	149	1892	30:18	1	0.950	A BV	~~5931.~~	~~0.153 NG~~	~~0.25~~	NO QQU
4	252	1985	31:47	1	0.996	A BB	~~2816.~~	~~0.174 NG~~	~~0.29~~	NO QQU
5	228	1989	31:51	1	0.998	A BV	~~170919.~~	~~3.469 NG~~	~~5.72~~	NO QQU
6	149	2016	32:17	1	1.012	A VB	~~22774.~~	~~0.410 NG~~	~~0.68~~	NO QQU
7	228	1996	31:58	1	1.002	A VV	396192.	8.578 NG	14.14	YES QQU
8	244	1783	28:33	1	0.895	A BB	153760.	4.161 NG	6.86	YES QQU

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	31:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	27:59	1.00	0.876	1.00	3.71	50.00	0.104	1.407	0.07
3	30:20	1.00	0.950	1.00	0.15	50.00	0.003	0.882	0.00
4	31:53	1.00	0.998	1.00	0.17	50.00	0.001	0.373	0.00
5	31:52	1.00	0.998	1.00	3.47	50.00	0.079	1.137	0.07
6	32:19	1.00	1.012	1.00	0.41	50.00	0.011	1.283	0.01
7	32:01	1.00	1.003	1.00	8.58	50.00	0.183	1.067	0.17
8	28:35	1.00	0.895	1.00	4.16	50.00	0.071	0.853	0.08

MID MASS SPECTRUM
08/26/87 0:43:00 + 27:57
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 250 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1745
CALI: 14558RN6 #2

BASE M/Z: 202
RIC: 417280.

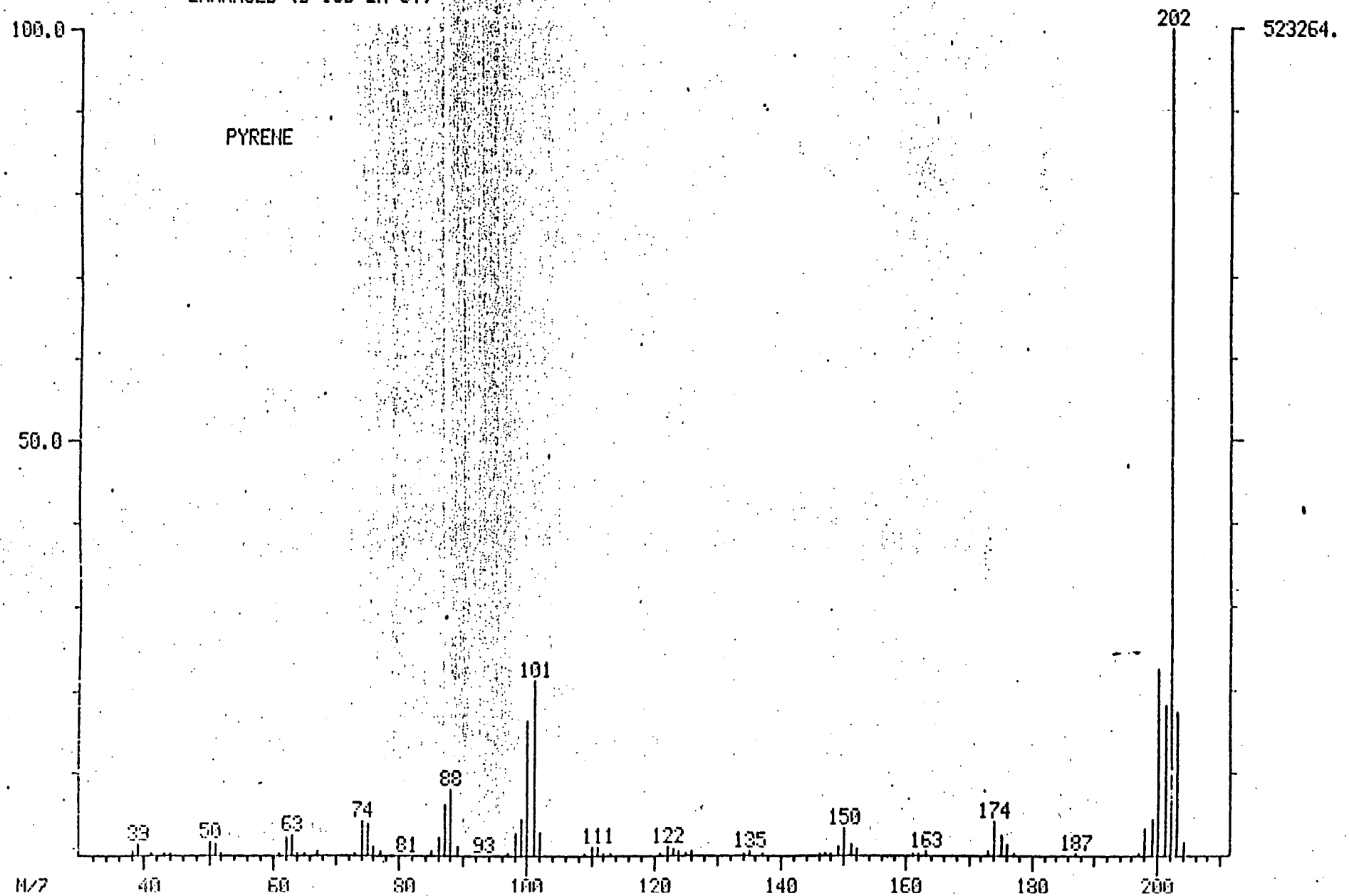


1490

MID MASS SPECTRUM
03/17/87 17:10:00 + 31:34
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 279 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1966
CALI: HSC50317 #2

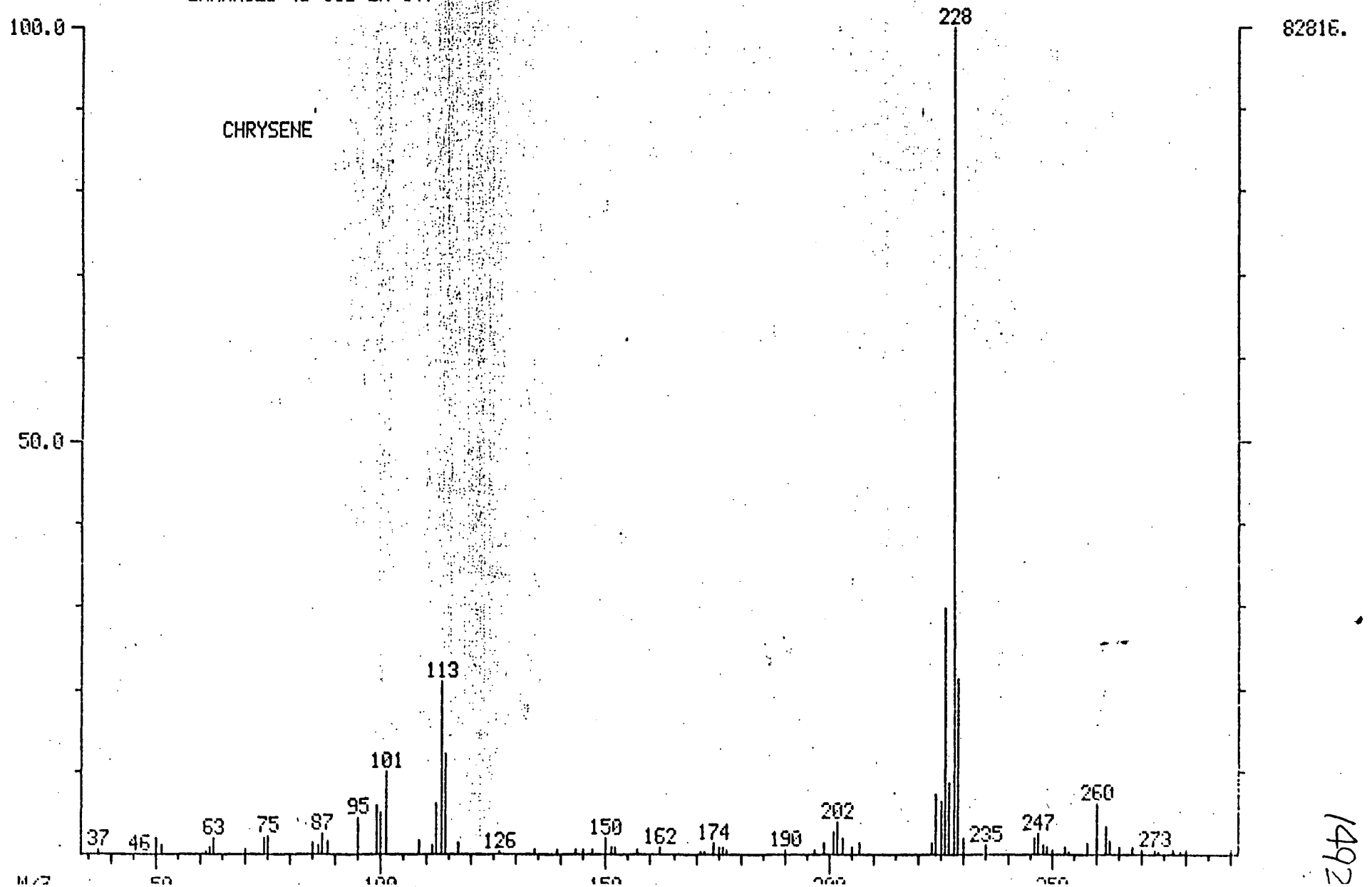
BASE M/Z: 202
RIC: 1476600.



MID MASS SPECTRUM
08/26/87 0:43:00 + 31:58
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 282 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1996
CALI: 14558RN6 #2

BASE M/Z: 228
RIC: 262144.

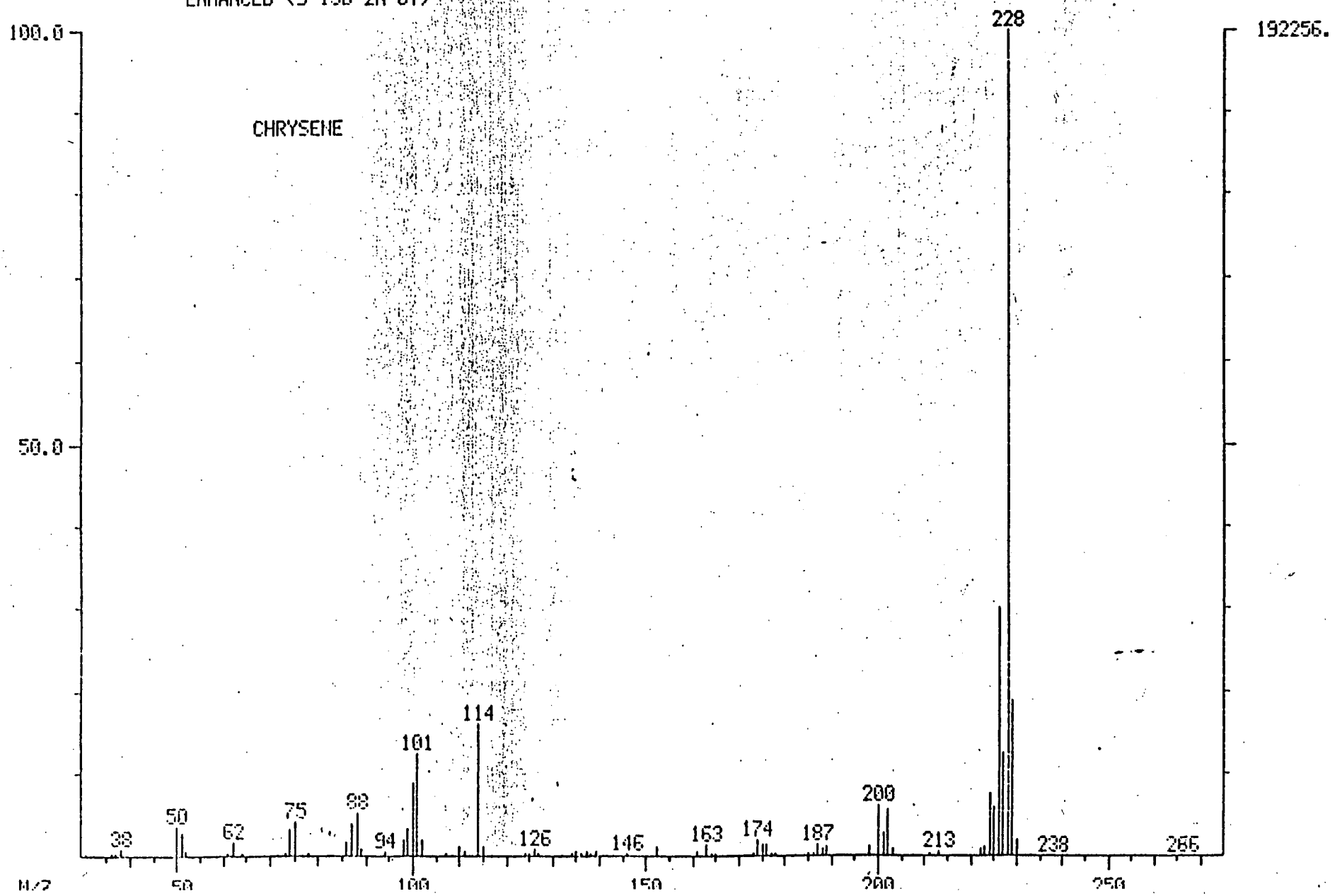


1492

MID MASS SPECTRUM
03/17/87 17:10:00 + 36:28
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 289 DEG. C.
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #2271
CALI: HSC50317 #2

BASE M/Z: 228
RIC: 562176.

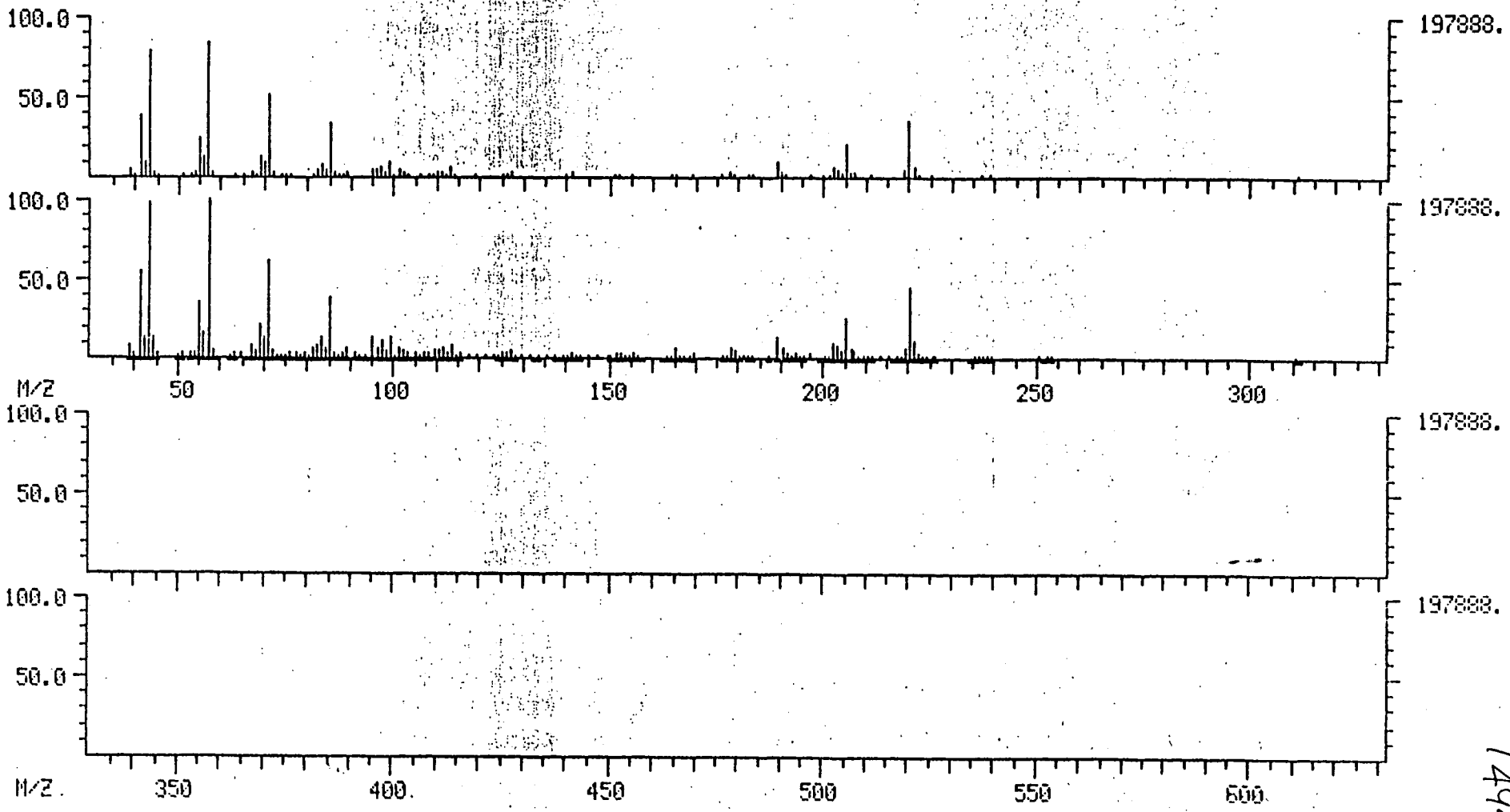


1492

MID DUAL MASS SPECTRUM
08/26/87 0:43:00 + 28:18
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 252 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1767
CALI: 14558RN6 #2

BASE M/Z: 57/ 57
RIC: 1300470./ 2023420.

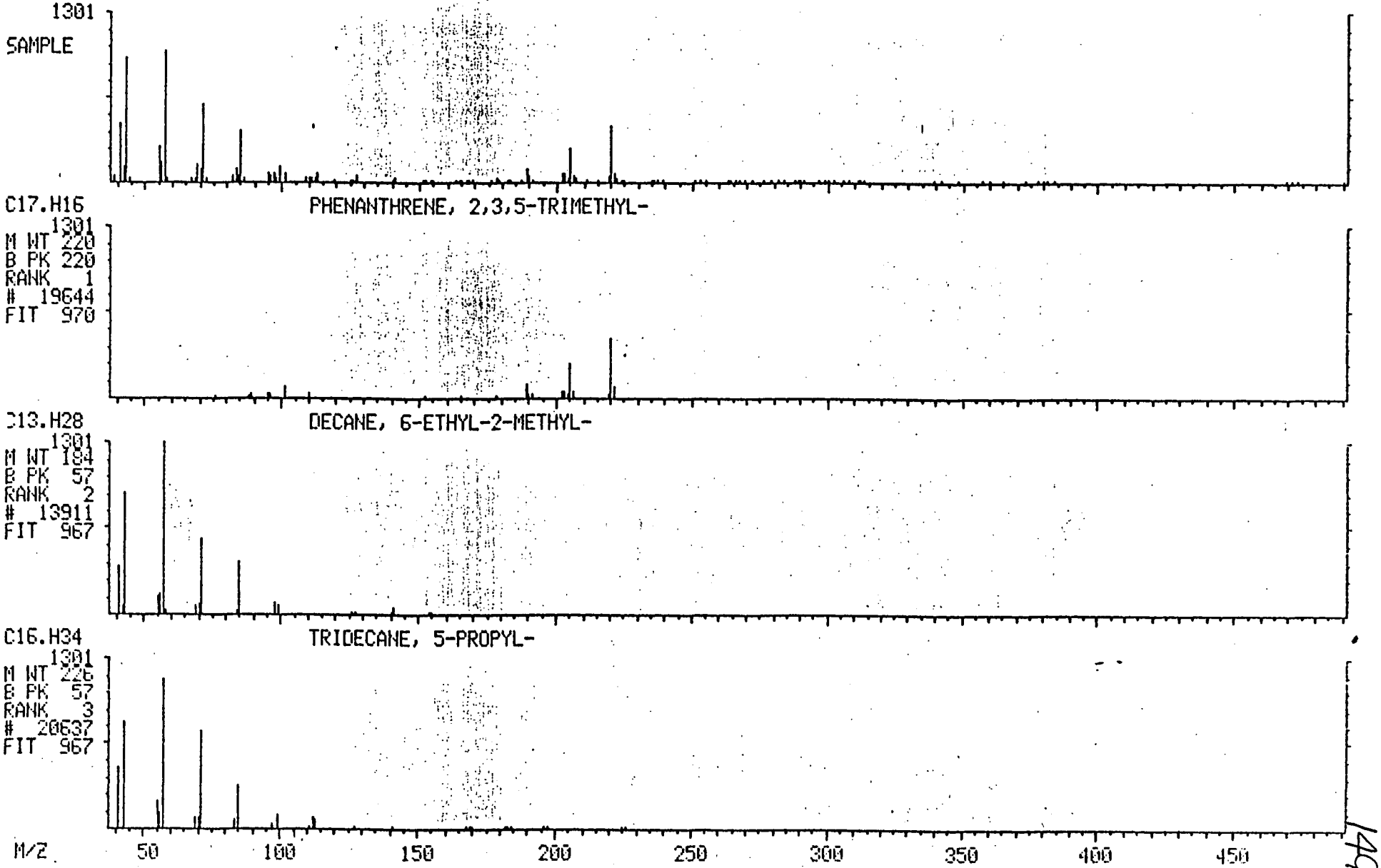


1494

MID LIBRARY SEARCH
08/26/87 0:43:00 + 28:18
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #1767
CALI: 14558RN6 # 2

BASE M/Z: 57
RIC: 1181690.



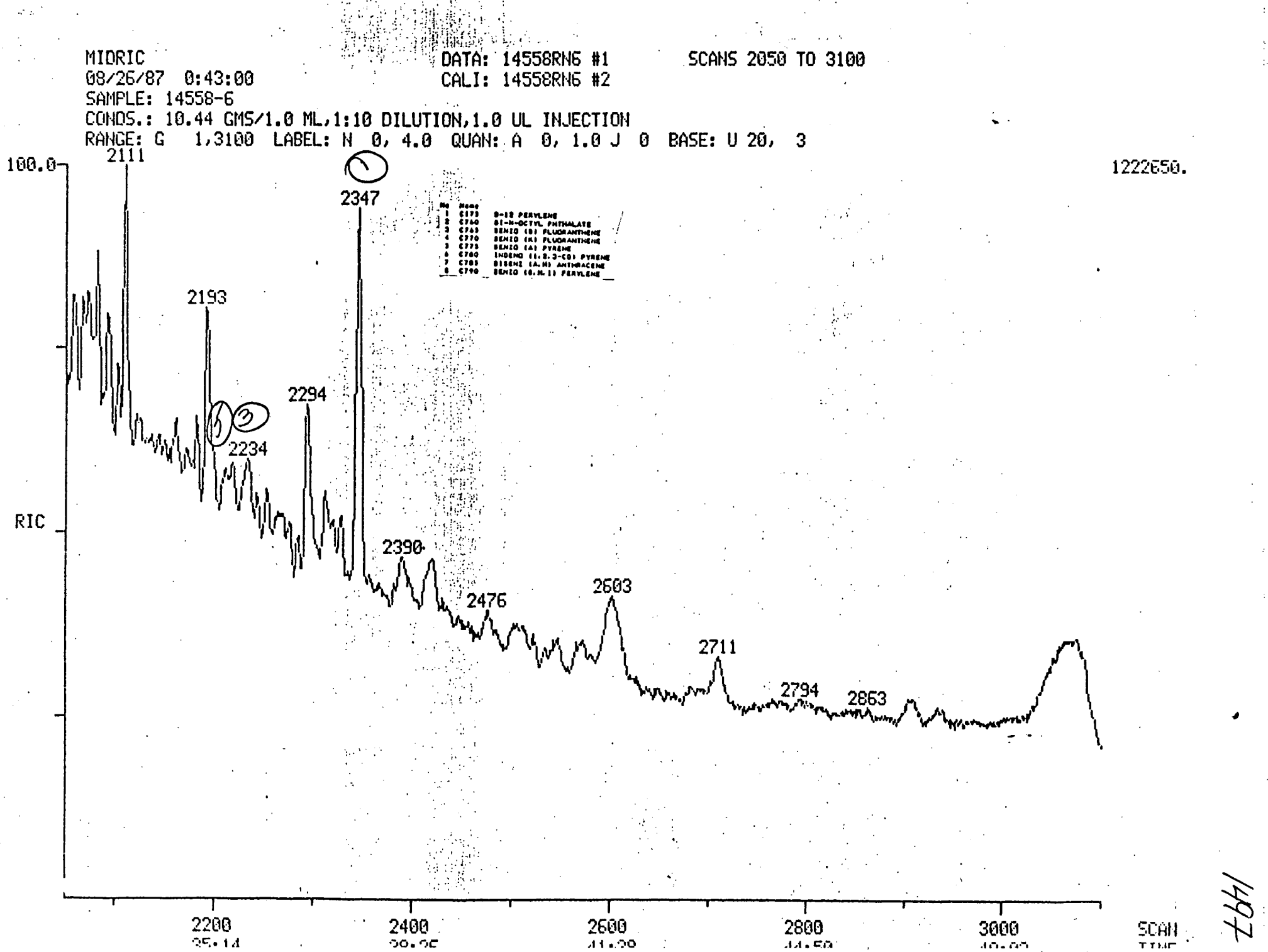
1405

MID Library Search Data: 14558RN6 #1767 Base m/z: 57
08/26/87 0:43:00 + 28:18 Cali: 14558RN6 # 2 RIC: 1181690.
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	19644	PHENANTHRENE, 2,3,5-TRIMETHYL-
2	13911	DECANE, 6-ETHYL-2-METHYL-
3	20637	TRIDECANE, 5-PROPYL-
4	11940	HYDROXYLAMINE, O-DECYL-
5	28693	DODECANE, 1-IODO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C17.H16	220	220	397	970	406
2	C13.H28	184	57	394	967	394
3	C16.H34	226	57	413	967	415
4	C10.H23.O.N	173	43	405	966	406
5	C12.H25.I	296	57	381	966	385

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	3674-73-5
2	———	———	———	———	62108-21-8
3	———	———	———	———	55045-11-9
4	———	———	———	———	29812-79-1
5	———	———	———	———	4292-19-7


MIDRIC
08/26/87 0:43:00
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558RN6 #1
CALI: 14558RN6 #2
SCANS 2050 TO 3100
100.0
1222650.
RIC
2111
2347
2193
2294
2234
2390
2476
2603
2711
2794
2863
2200
2400
2600
2800
3000
SCAN

1497

1498

Quantitation Report File: 14558RN6

Data: 14558RN6.TI
08/26/87 0:43:00
Sample: 14558-6
Conds.: 10.44 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558RN6

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

No	Name		
1	CI75	D-12 PERYLENE	(INT. STD.)
2	C760	DI-N-OCTYL PHTHALATE	*
3	C765	BENZO (B) FLUORANTHENE	
4	C770	BENZO (K) FLUORANTHENE	
5	C775	BENZO (A) PYRENE	*
6	C780	INDENO (1,2,3-CD) PYRENE	
7	C785	DIBENZ (A,H) ANTHRACENE	
8	C790	BENZO (G,H,I) PERYLENE	

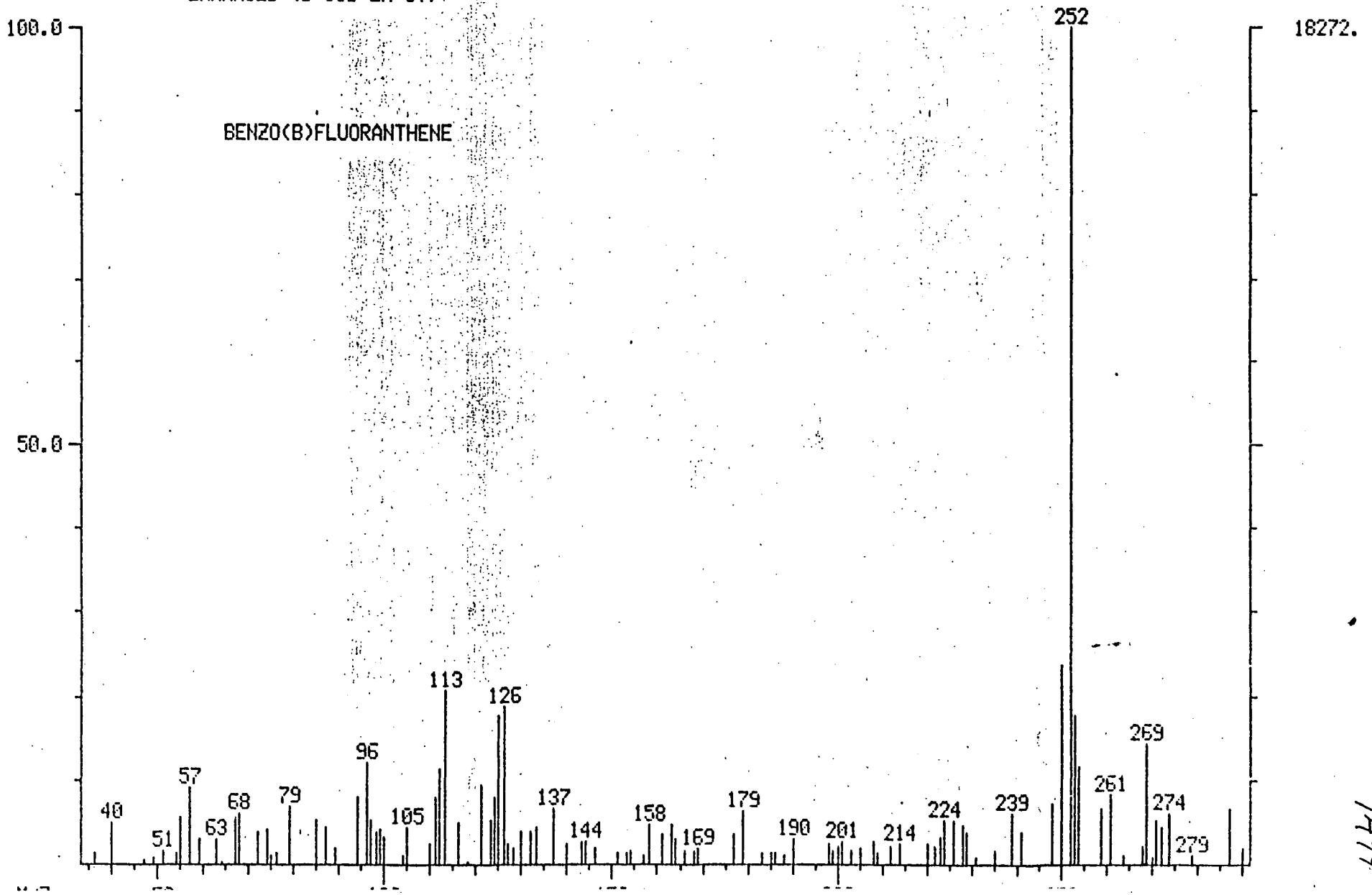
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	264	2347	37:35	1	1.000	A BB	1209210.	40.000 NG	75.99	
2	149	2151	34:27	1	0.916	A*BV	~~5796.~~	~~0.045 NG~~	~~0.09~~ NO	DDU
3	252	2234	35:47	1	0.952	A BB	188812.	3.487 NG	6.63 YES	DDU
4	252	2234	35:47	1	0.952	A BB	~~188812.~~	~~3.537 NG~~	~~6.72~~ NO	DDU
5	252	2327	37:16	1	0.991	A VB	97752.	2.230 NG	4.24 YES	DDU
6	276	2776	44:27	1	1.183	A BV	~~18887.~~	~~0.673 NG~~	~~1.28~~ NO	DDU
7	278	2792	44:43	1	1.190	A BV	~~21652.~~	~~0.881 NG~~	~~1.67~~ NO	DDU
8	276	2911	46:37	1	1.240	A BB	~~45052.~~	~~1.787 NG~~	~~3.39~~ NO	DDU

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	37:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	34:28	1.00	0.916	1.00	0.04	50.00	0.004	4.264	0.00
3	35:48	1.00	0.951	1.00	3.49	50.00	0.125	1.791	0.07
4	35:55	1.00	0.955	1.00	3.54	50.00	0.125	1.766	0.07
5	37:19	1.00	0.992	1.00	2.23	50.00	0.065	1.450	0.04
6	44:31	1.00	1.183	1.00	0.67	50.00	0.012	0.928	0.01
7	44:50	1.00	1.192	1.00	0.88	50.00	0.014	0.813	0.02
8	46:37	1.00	1.239	1.00	1.79	50.00	0.030	0.834	0.04

MID MASS SPECTRUM
08/26/87 0:43:00 + 35:47
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #2234
CALI: 14558RN6 #2

BASE M/Z: 252
RIC: 111488.

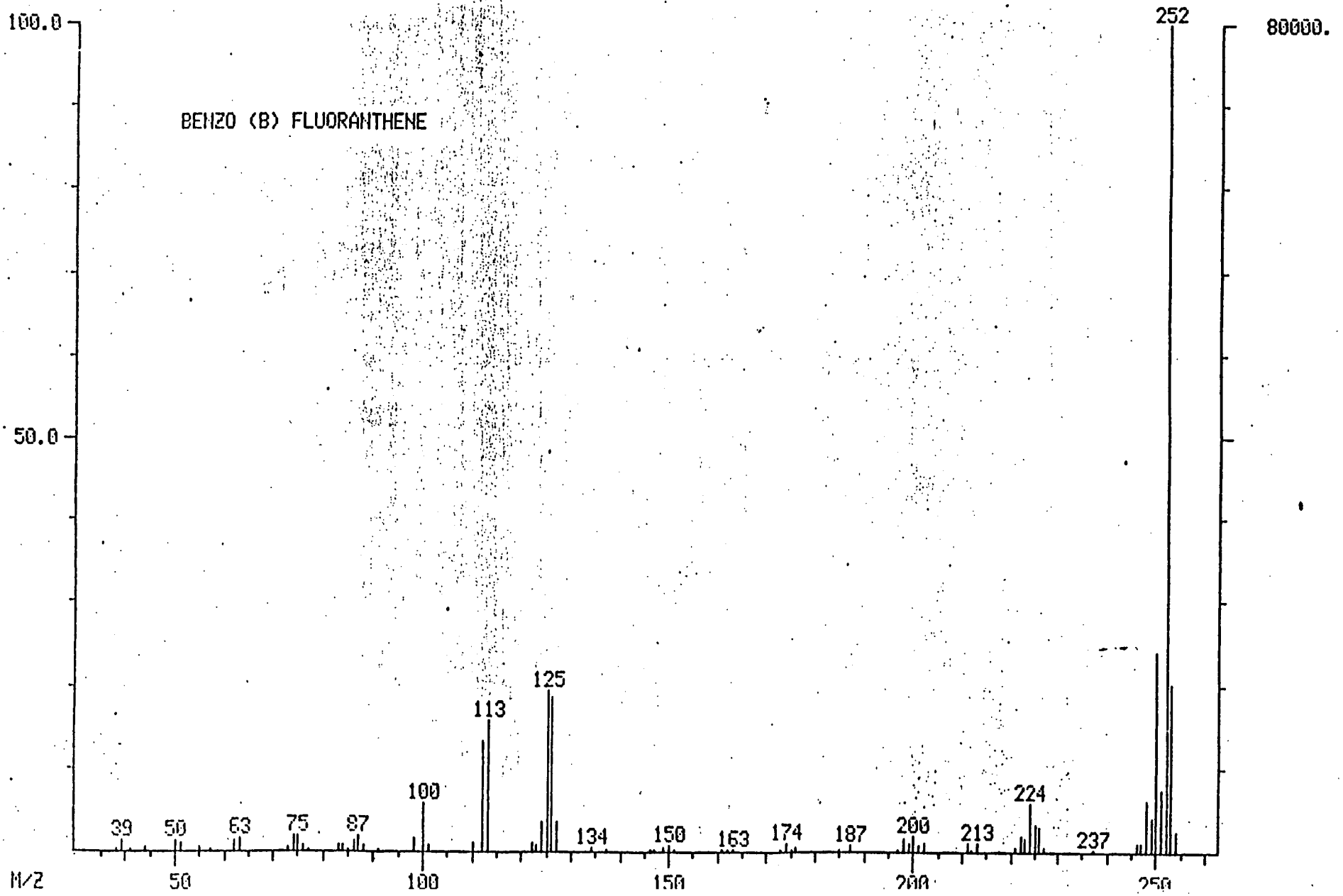


66H

MID MASS SPECTRUM
03/17/87 17:10:00 + 43:15
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #2694
CALI: HSC50317 #2

BASE M/Z: 252
RIC: 247552.

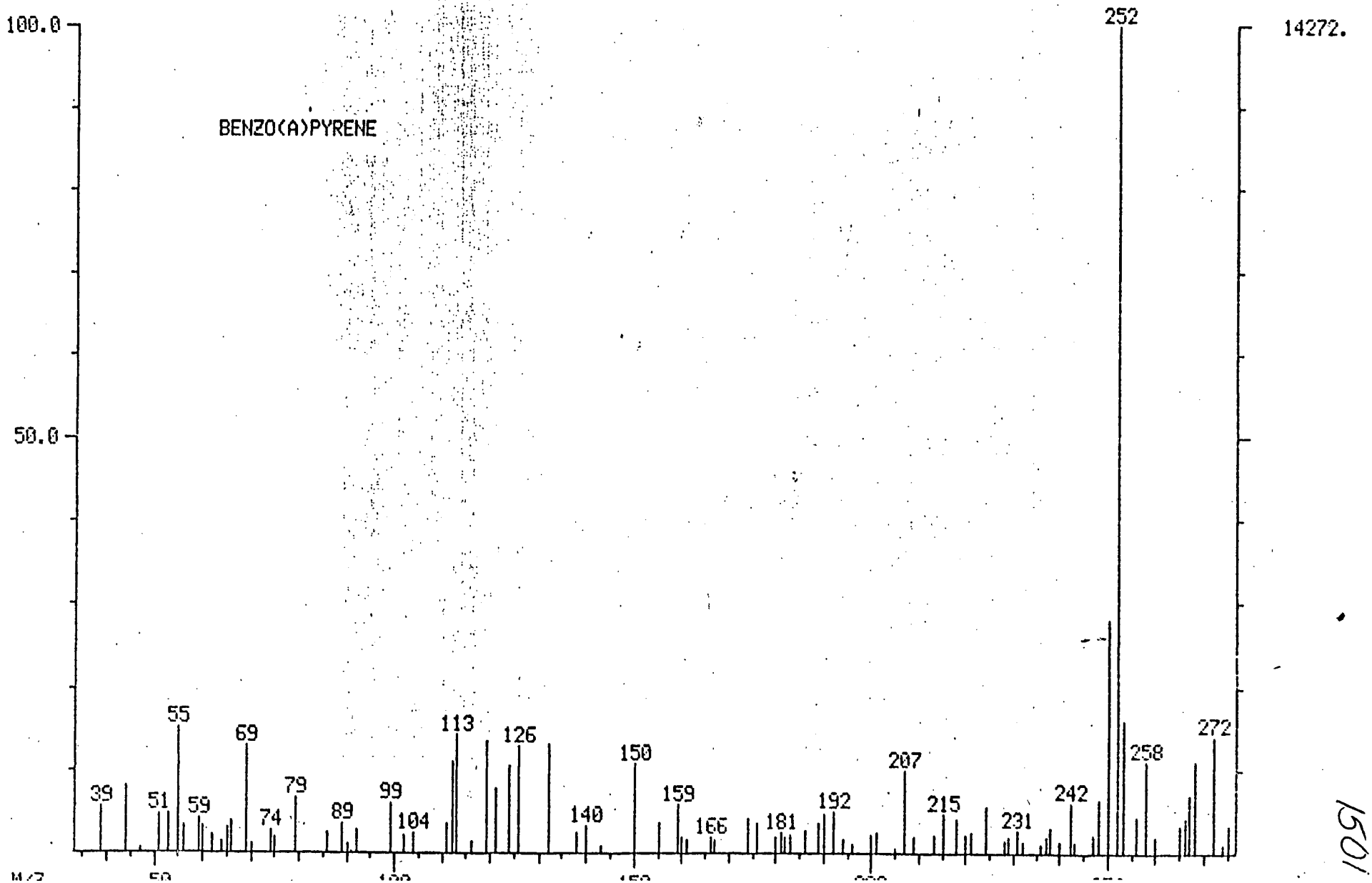


1500

MID MASS SPECTRUM
08/26/87 0:43:00 + 37:16
SAMPLE: 14558-6
CONDS.: 10.44 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN6 #2327
CALI: 14558RN6 #2

BASE M/Z: 252
RIC: 87296.

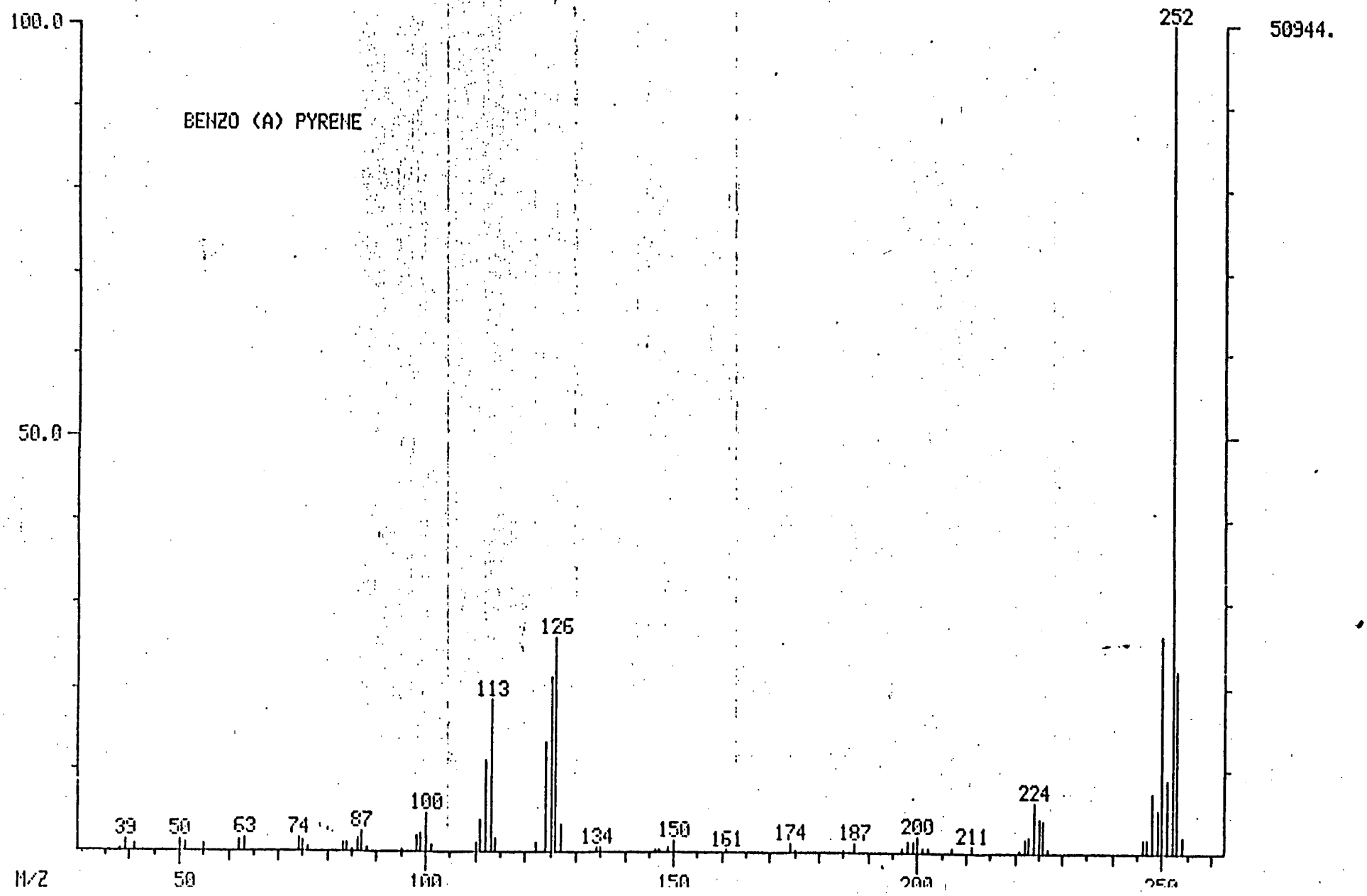


1501

MID MASS SPECTRUM
03/17/87 17:10:00 + 46:07
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #2872
CALI: HSC50317 #2

BASE M/Z: 252
RIC: 173568.



1502

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSA081175I

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-7

Sample wt/vol: 10.3 (g/mL) G Lab File ID: 14558BN7

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 47 dec. Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/26/87

GPC Cleanup: (Y/N) N pH: Dilution Factor: 0.333

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	1900	U
111-44-4	bis(2-Chloroethyl)Ether	1900	U
95-57-8	2-Chlorophenol	1900	U
541-73-1	1,3-Dichlorobenzene	1900	U
106-46-7	1,4-Dichlorobenzene	1900	U
100-51-6	Benzyl Alcohol	1900	U
95-50-1	1,2-Dichlorobenzene	1900	U
95-48-7	2-Methylphenol	1900	U
39638-32-9	bis(2-Chloroisopropyl)Ether	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-Di-n-Propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
65-85-0	Benzoic Acid	9100	U
111-91-1	bis(2-Chloroethoxy)Methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
59-50-7	4-Chloro-3-Methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	9100	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	9100	U
131-11-3	Dimethyl Phthalate	1900	U
208-96-8	Acenaphthylene	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U

1504

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SSA081175

Lab Name: ANALYTIKEM Contract:

Lab Code: Case No.: 14558 SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 14558-7

Sample wt/vol: 10.3 (g/mL) G Lab File ID: 14558FN7

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 47 dec. Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/26/87

GPC Cleanup: (Y/N) N pH: Dilution Factor: 0.333

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	9100	U
83-32-9	Acenaphthene	1900	U
51-28-5	2,4-Dinitrophenol	9100	U
100-02-7	4-Nitrophenol	9100	U
132-64-9	Dibenzofuran	1900	U
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethylphthalate	1900	U
7005-72-3	4-Chlorophenyl-phenylether	1900	U
86-73-7	Fluorene	1900	U
100-10-6	4-Nitroaniline	9100	U
534-52-1	4,6-Dinitro-2-Methylphenol	9100	U
86-30-6	N-Nitrosodiphenylamine (1)	1900	U
101-55-3	4-Bromophenyl-phenylether	1900	U
118-74-1	Hexachlorobenzene	1900	U
87-86-5	Pentachlorophenol	9100	U
85-01-8	Phenanthrene	1200	J
120-12-7	Anthracene	1900	U
84-74-2	Di-n-Butylphthalate	990	J
206-44-0	Fluoranthene	1900	U
129-00-0	Pyrene	1200	J
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	3700	U
56-55-3	Benzo(a)Anthracene	530	J
218-01-9	Chrysene	1900	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1900	U
117-84-0	Di-n-Octyl Phthalate	1900	U
205-99-2	Benzo(b)Fluoranthene	1900	U
207-08-9	Benzo(k)Fluoranthene	1900	U
50-32-8	Benzo(a)Pyrene	1900	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1900	U
53-70-3	Dibenz(a,h)Anthracene	1900	U
191-24-2	Benzo(g,h,i)Perylene	1900	U

(1) - Cannot be separated from Diphenylamine

1505

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

88A0911751

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-7

Sample wt/vol: 10.3 (g/mL) G Lab File ID: W14558N7

Level: (low/med) LOW Date Received: 06/11/87

% Moisture: not dec. 47 dec. _____ Date Extracted: 06/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 06/26/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.333

Number TICs found: 0

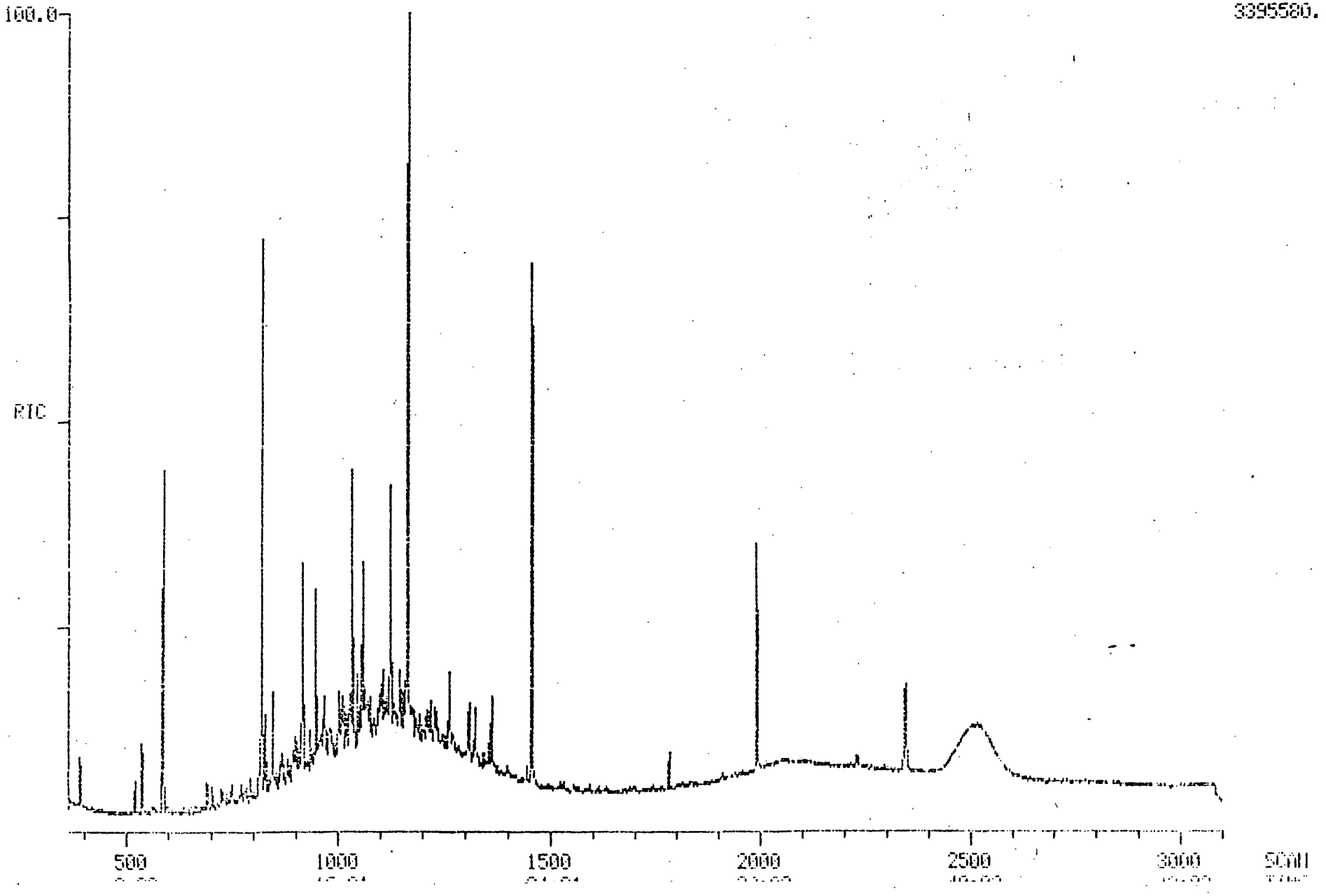
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

MIDRIC
08/26/87 1:58:00
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558RN7 #1
CALI: 14558RN7 #2

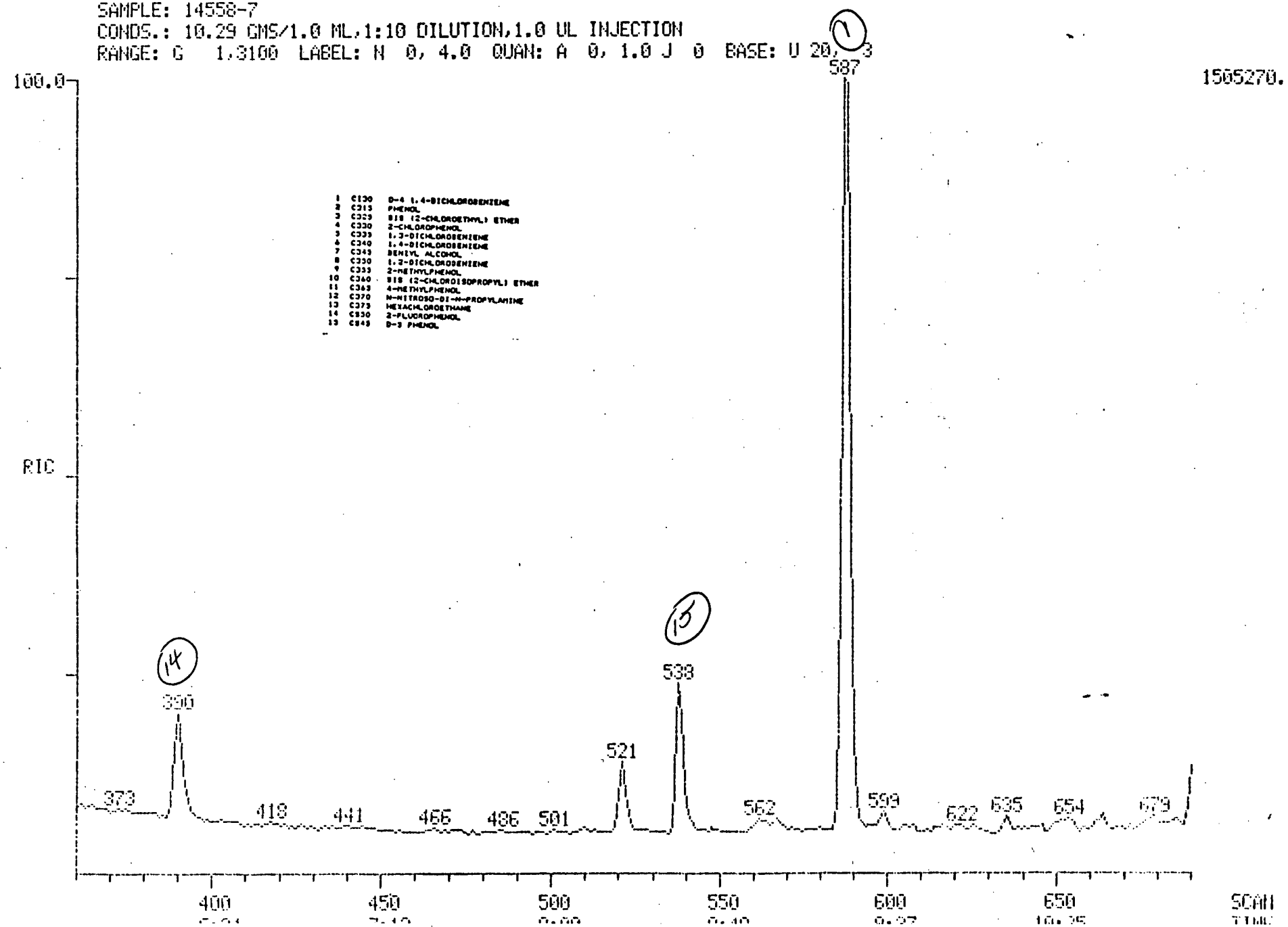
SCANS 360 TO 3100



1506

MIDRIC
08/26/87 1:58:00
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1.3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558RN7 #1
CALI: 14558RN7 #2
SCANS 360 TO 690



1607

1508

Quantitation Report File: 14558RN7

Data 14558RN7.TI
08/26/87 1:58:00
Sample: 14558-7
Conc.: 10.29 GMS/1.0 ML 1:10 DILUTION, 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DMM Analyst: WAF Acct. No.: 14558RN7

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

No	Name		
1	C130	D-4 1,4-DICHLOROBENZENE	(INT. STD.)
2	C315	PHENOL	*
3	C325	BIS (2-CHLOROETHYL) ETHER	
4	C330	2-CHLOROPHENOL	
5	C335	1,3-DICHLOROBENZENE	
6	C340	1,4-DICHLOROBENZENE	*
7	C345	BENZYL ALCOHOL	
8	C350	1,2-DICHLOROBENZENE	
9	C355	2-METHYLPHENOL	
10	C360	BIS (2-CHLOROISOPROPYL) ETHER	
11	C365	4-METHYLPHENOL	
12	C370	N-NITROSO-DI-N-PROPYLAMINE	**
13	C375	HEXACHLOROETHANE	
14	C530	2-FLUOROPHENOL	(SURROGATE)
15	C545	D-5 PHENOL	(SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	152	587	9:24	1	1.000	A BB	482912.	40.000	NG	67.88	
2	94	540	8:39	1	0.920	A BV	~~2134.~~	~~0.139~~	NG	0.24	ND
3	93	551	8:49	1	0.939	A*VV	~~5593.~~	~~0.266~~	NG	0.45	ND
4	128	555	8:53	1	0.945	A BB	~~640.~~	~~0.037~~	NG	0.06	ND
5	146	581	9:18	1	0.990	A BB	~~256.~~	~~0.014~~	NG	0.02	ND
6	146	589	9:26	1	1.003	A BB	~~256.~~	~~0.014~~	NG	0.02	ND
7	108	613	9:49	1	1.044	A*BB	~~1728.~~	~~0.157~~	NG	0.27	ND
8	146	625	10:01	1	1.065	A BB	~~320.~~	0.018	NG	0.03	ND
9	108	641	10:16	1	1.092	A*BB	~~1472.~~	~~0.093~~	NG	0.17	ND
10	45	648	10:23	1	1.104	A BB	~~1856.~~	~~0.046~~	NG	0.08	ND
11	108	668	10:42	1	1.138	A BV	~~2080.~~	~~0.130~~	NG	0.22	ND
12	NOT FOUND										
13	117	674	10:48	1	1.148	A BB	~~1280.~~	~~0.150~~	NG	0.26	ND
14	112	390	6:15	1	0.664	A BB	124508.	8.881	NG	15.07	YES
15	99	538	8:37	1	0.917	A BV	168321.	8.974	NG	15.23	YES

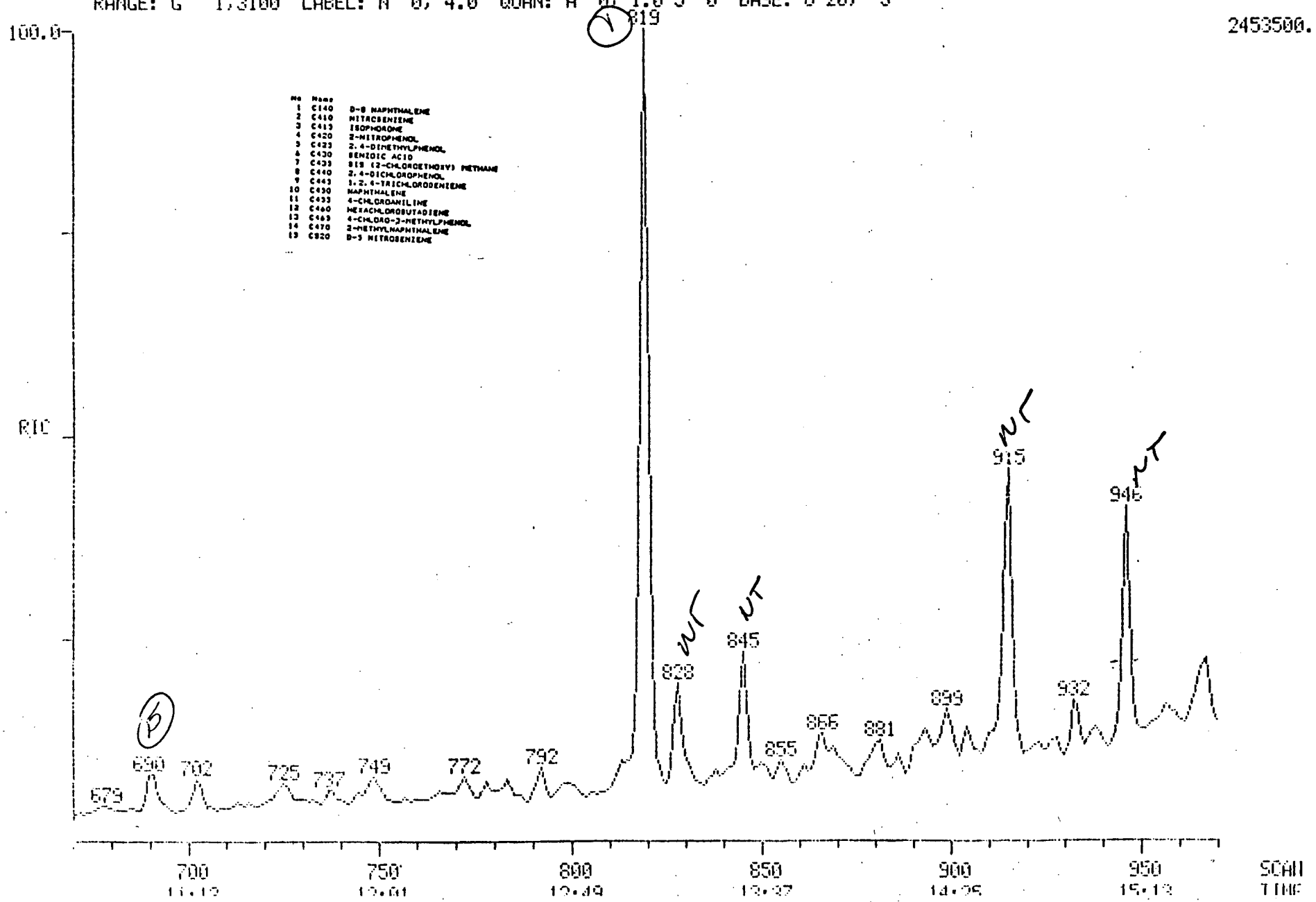
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:40	1.00	0.920	1.00	0.14	50.00	0.005	1.870	0.00
3	8:50	1.00	0.939	1.00	0.27	50.00	0.009	1.677	0.01
4	8:56	0.99	0.949	1.00	0.04	50.00	0.001	1.420	0.00
5	9:19	1.00	0.990	1.00	0.01	50.00	0.000	1.492	0.00
6	9:28	1.00	1.005	1.00	0.01	50.00	0.000	1.537	0.00
7	9:54	0.99	1.051	0.99	0.16	50.00	0.003	0.910	0.00
8	9:59	1.00	1.060	1.00	0.02	50.00	0.001	1.511	0.00
9	10:18	1.00	1.094	1.00	0.10	50.00	0.002	1.238	0.00

No	Rat(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
10	10:22	1.00	1.100	1.00	0.05	50.00	0.003	3.341	0.00
11	10:43	1.00	1.138	1.00	0.13	50.00	0.003	1.327	0.00
12	10:45		1.141						
13	10:51	1.00	1.151	1.00	0.15	50.00	0.002	0.705	0.00
14	6:15	1.00	0.663	1.00	8.88	50.00	0.206	1.161	0.18
15	8:38	1.00	0.917	1.00	8.97	50.00	0.279	1.554	0.18

MIDRIC
08/26/87 1:58:00
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558RN7 #1
CALI: 14558RN7 #2

SCANS 670 TO 970



No	Name	
1	C140	D-8 NAPHTHALENE
2	C410	NITROBENZENE
3	C415	ISOPHORONE
4	C420	2-NITROPHENOL
5	C425	2,4-DIMETHYLPHENOL
6	C430	BENZOIC ACID
7	C435	BIS (2-CHLOROETHOXY) METHANE
8	C440	2,4-DICHLOROPHENOL
9	C445	1,2,4-TRICHLOROBENZENE
10	C450	NAPHTHALENE
11	C455	4-CHLOROANILINE
12	C460	HEXACHLOROBUTADIENE
13	C465	4-CHLORO-3-METHYLPHENOL
14	C470	2-METHYLNAPHTHALENE
15	C520	D-5 NITROBENZENE

1510

Quantitation Report File: 14558RN7

Data: 14558RN7.TI
08/26/87 1:58:00
Sample: 14558-7
Conds.: 10.39 GMS/1.0 ML 1:10 DILUTION 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14552RN7

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

No	Name		
1	C140	D-8 NAPHTHALENE	(INT. STD.)
2	C410	NITROBENZENE	
3	C415	ISOPHORONE	
4	C420	2-NITROPHENOL	*
5	C425	2,4-DIMETHYLPHENOL	
6	C430	BENZOIC ACID	
7	C435	BIS (2-CHLOROETHOXY) METHANE	
8	C440	2,4-DICHLOROPHENOL	*
9	C445	1,2,4-TRICHLOROBENZIENE	
10	C450	NAPHTHALENE	
11	C455	4-CHLOROANILINE	
12	C460	HEXACHLOROBUTADIENE	*
13	C465	4-CHLORO-3-METHYLPHENOL	*
14	C470	2-METHYLNAPHTHALENE	
15	CS20	D-5 NITROBENZENE	(SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	136	819	13:07	1	1.000	A BV	2029440.	40.000 NG	88.50	
2	77	690	11:03	1	0.842	A BB	~~1655.~~	~~0.056 NG~~	~~0.12~~	NO
3	82	736	11:47	1	0.899	A BB	~~2112.~~	~~0.038 NG~~	~~0.08~~	NO
4	139	756	12:06	1	0.923	A*BB	~~1654.~~	~~0.193 NG~~	~~0.43~~	NO
5	122	763	12:13	1	0.932	A BV	~~672.~~	~~0.045 NG~~	~~0.10~~	NO
6	122	785	12:34	1	0.958	A*BB	~~1056.~~	~~0.100 NG~~	~~0.22~~	NO
7	93	778	12:28	1	0.950	A*BB	~~1061.~~	~~0.140 NG~~	~~0.31~~	NO
8	162	795	12:44	1	0.971	A BB	~~326.~~	~~0.020 NG~~	~~0.04~~	NO
9	180	820	13:08	1	1.001	A*BB	~~1056.~~	~~0.062 NG~~	~~0.14~~	NO
10	128	822	13:10	1	1.004	A*BV	~~11840.~~	~~0.229 NG~~	~~0.51~~	NO
11	127	844	13:31	1	1.031	A*BB	~~2523.~~	~~0.113 NG~~	~~0.25~~	NO
12	NOT FOUND									
13	107	928	14:52	1	1.133	A BB	~~1772.~~	~~0.078 NG~~	~~0.17~~	NO
14	142	956	15:19	1	1.167	A BV	~~17264.~~	~~0.555 NG~~	~~1.23~~	NO
15	82	690	11:03	1	0.842	A VV	98740.	3.567 NG	7.89	YES

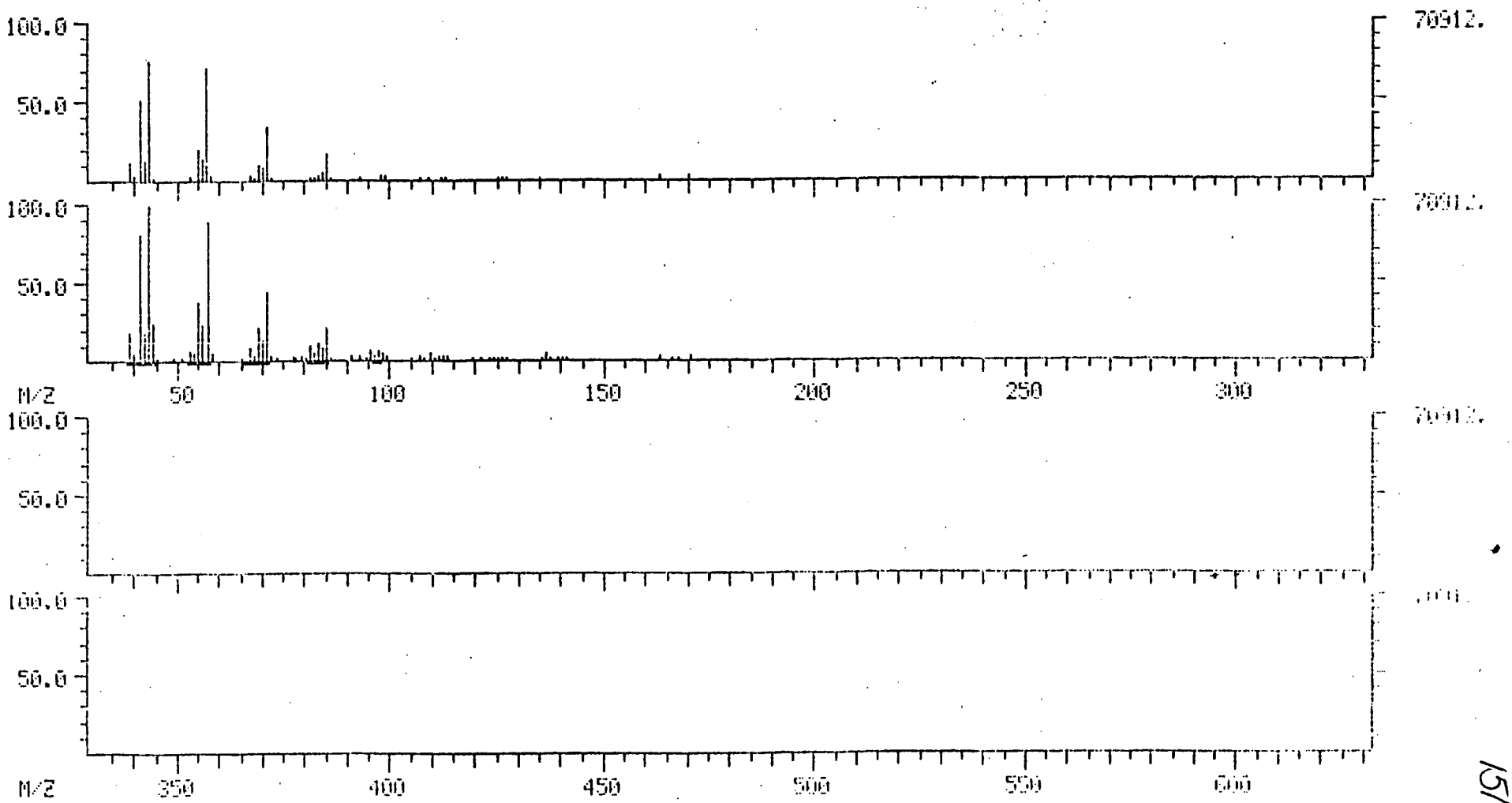
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	11:08	0.99	0.843	0.99	0.06	50.00	0.001	0.585	0.00
3	11:48	1.00	0.899	1.00	0.04	50.00	0.001	1.098	0.00
4	12:05	1.00	0.920	1.00	0.19	50.00	0.001	0.170	0.00
5	12:16	1.00	0.934	1.00	0.05	50.00	0.000	0.292	0.00
6	12:36	1.00	0.960	1.00	0.10	50.00	0.000	0.208	0.00
7	12:33	0.99	0.956	0.99	0.14	50.00	0.002	0.573	0.00
8	12:46	1.00	0.972	1.00	0.02	50.00	0.000	0.320	0.00
9	13:01	1.01	0.991	1.01	0.06	50.00	0.000	0.333	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	13:11	1.00	1.004	1.00	0.23	50.00	0.005	1.020	0.00
11	13:27	1.00	1.024	1.01	0.11	50.00	0.001	0.441	0.00
12	13:47		1.050						
13	15:01	0.99	1.144	0.99	0.08	50.00	0.001	0.455	0.00
14	15:20	1.00	1.167	1.00	0.55	50.00	0.008	0.684	0.01
15	11:04	1.00	0.843	1.00	3.57	50.00	0.039	0.546	0.07

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 13:16
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 131 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #828
CALI: 14558RN7 #2

BASE M/Z: 43/ 43
RIC: 280575./ 480767.

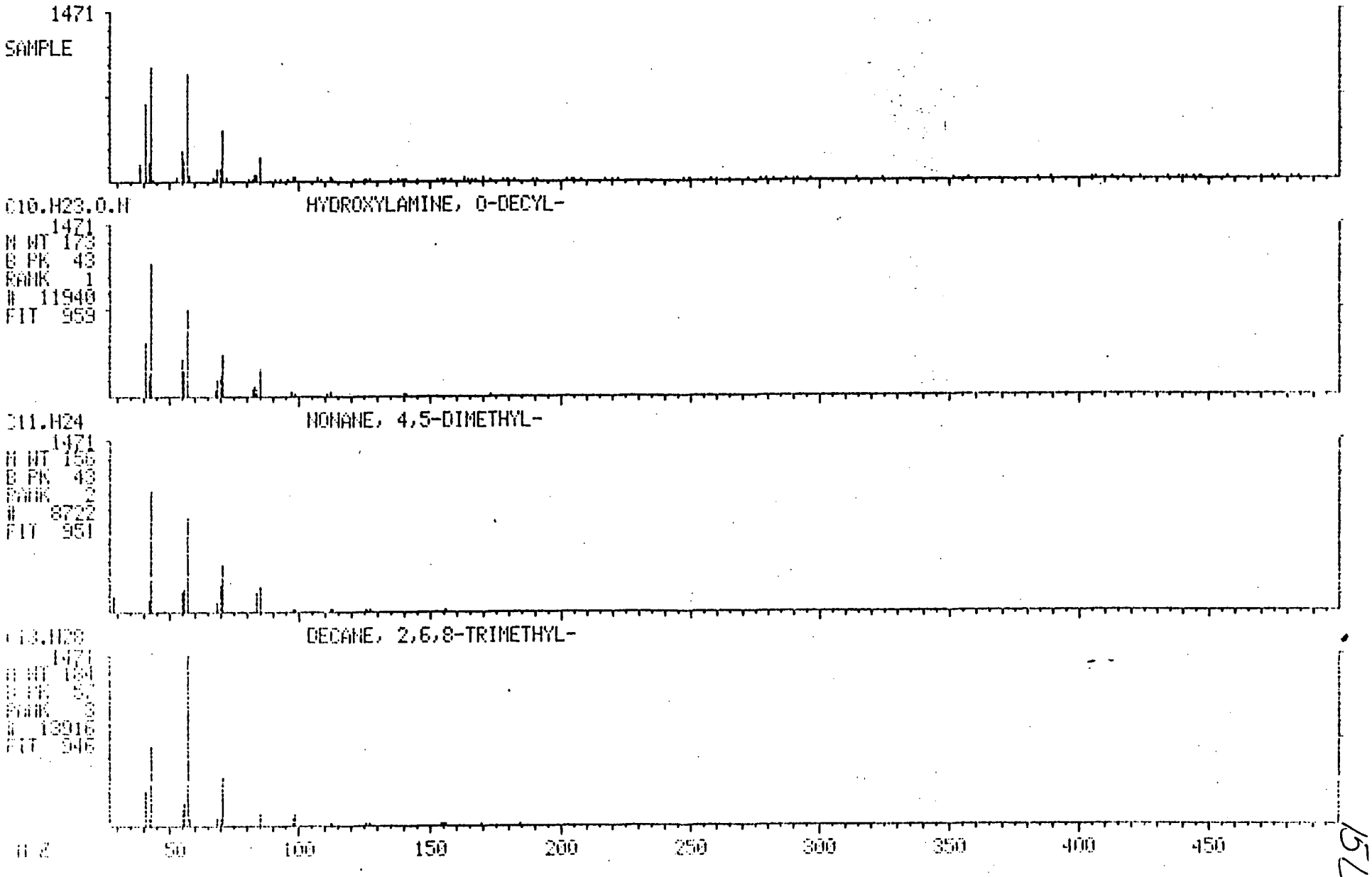


15/2

MID LIBRARY SEARCH
08/26/87 1:58:00 + 13:16
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RH7 # 828
CALI: 14558RH7 # 2

BASE M/Z: 43
RIC: 274431.



MID Library Search Data: 14558RN7 # 823 Base m/z: 43
08/26/87 1:58:00 + 13:16 Cali: 14558RN7 # 2 RIC: 274431.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B EN OT)

Rank	In.	Name
1	11940	HYDROXYLAMINE, O-DECYL-
2	8722	NONANE, 4,5-DIMETHYL-
3	13916	DECANE, 2,6,8-TRIMETHYL-
4	13912	DECANE, 2,5,6-TRIMETHYL-
5	6090	HEXANE, 2,2,3,3-TETRAMETHYL-

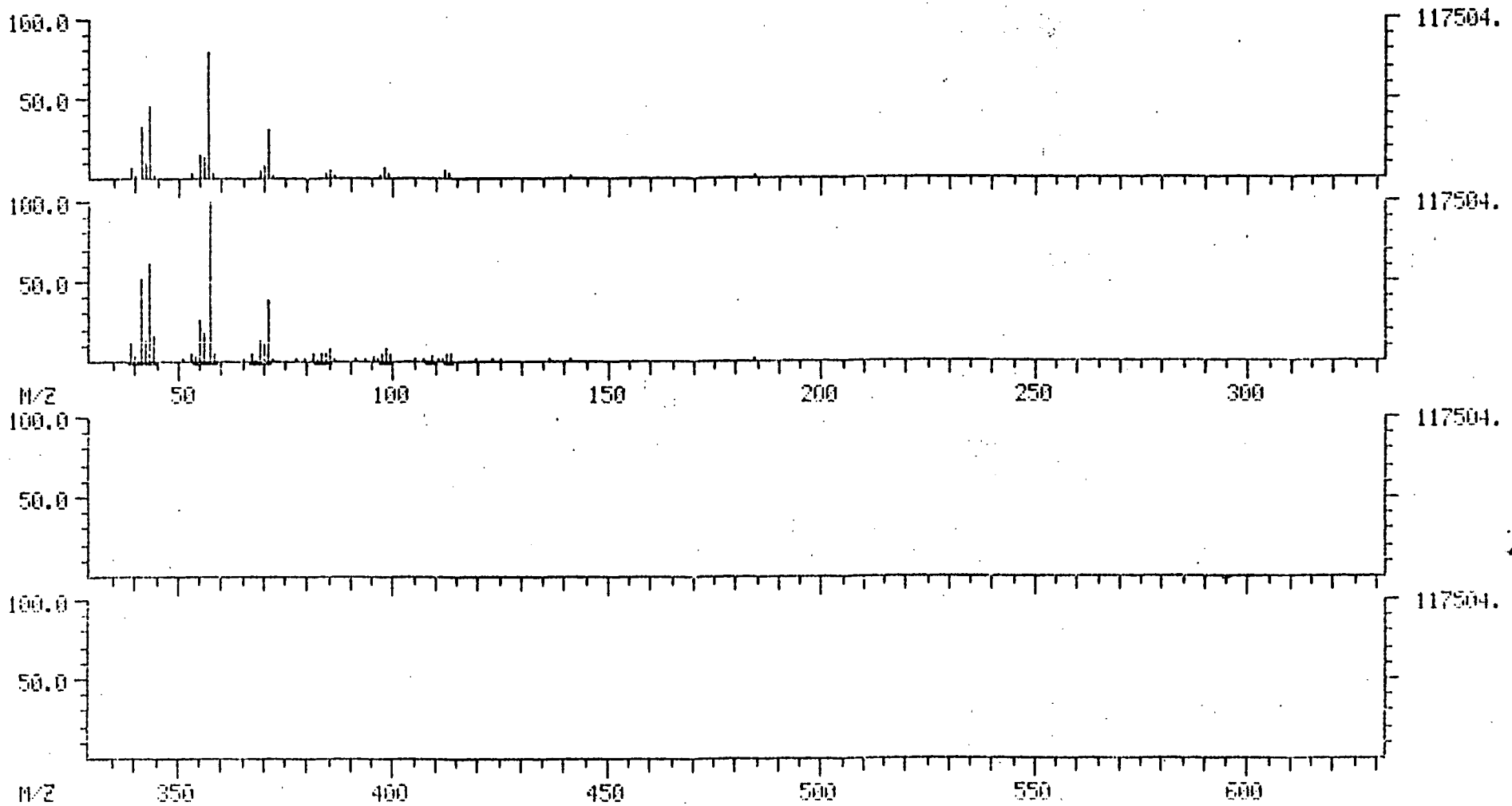
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H23.O.N	173	43	723	959	738
2	C11.H24	156	43	640	951	652
3	C13.H28	184	57	713	946	716
4	C13.H28	184	57	730	943	730
5	C10.H22	142	57	693	942	698

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	29812-79-1
2	___	___	___	___	17302-23-7
3	___	___	___	___	62108-26-3
4	___	___	___	___	62108-23-0
5	___	___	___	___	13475-81-5

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 13:32
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 133 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #845
CALI: 14558RN7 #2

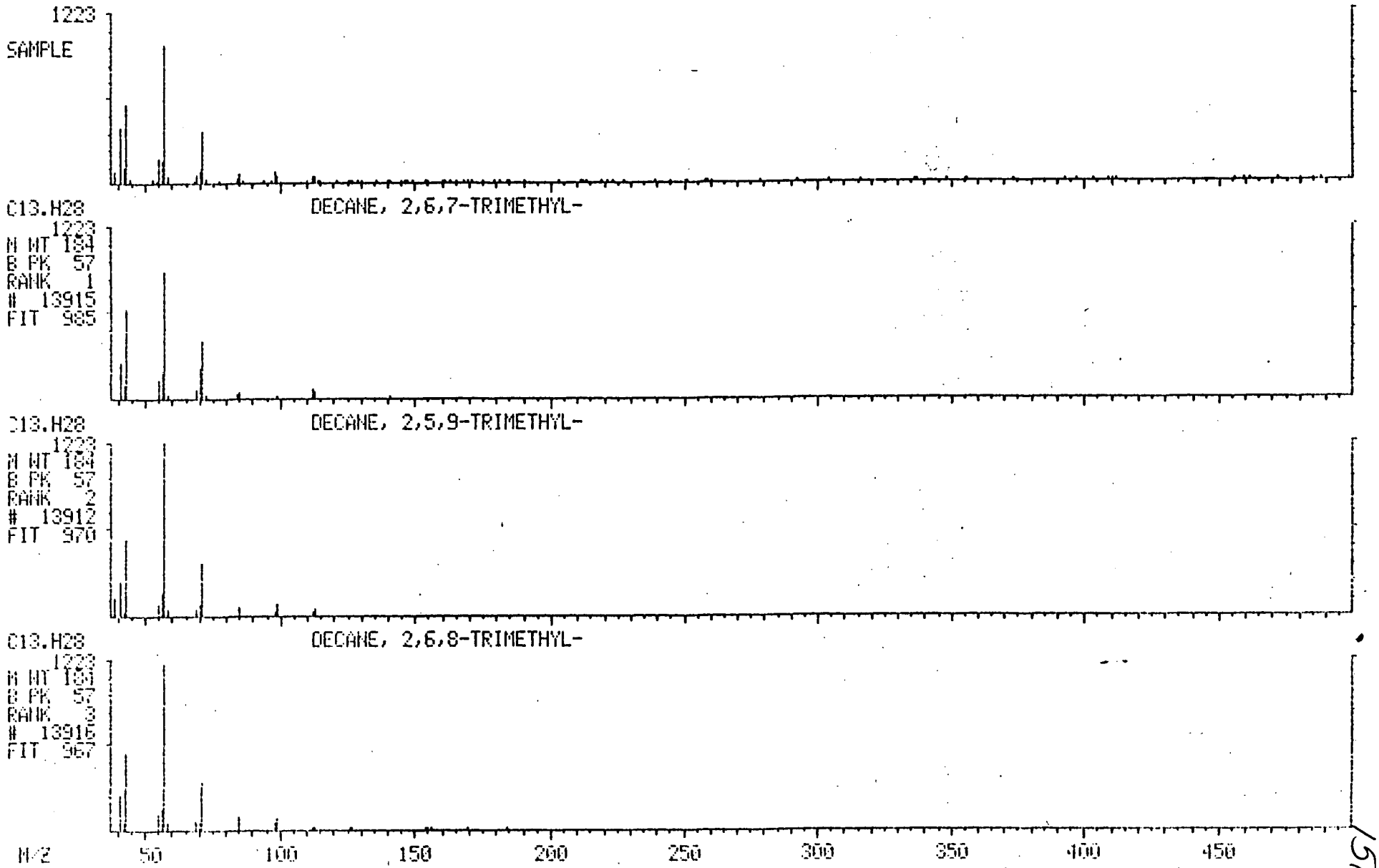
BASE M/Z: 57/ 57
RIC: 344575./ 566271.



MID LIBRARY SEARCH
08/26/87 1:58:00 + 13:32
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 # 845
CALI: 14558RN7 # 2

BASE M/Z: 57
RIC: 340991.



MID Library Search Data: 14558RN7 # 845 Base m/z: 57
08/26/87 1:58:00 + 13:32 Cali: 14558RN7 # 2 RIC: 340991.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	13915	DECANE, 2,6,7-TRIMETHYL-
2	13912	DECANE, 2,5,9-TRIMETHYL-
3	13916	DECANE, 2,6,8-TRIMETHYL-
4	16290	TRIDECANE, 7-METHYL-
5	8732	OCTANE, 2,3,7-TRIMETHYL-

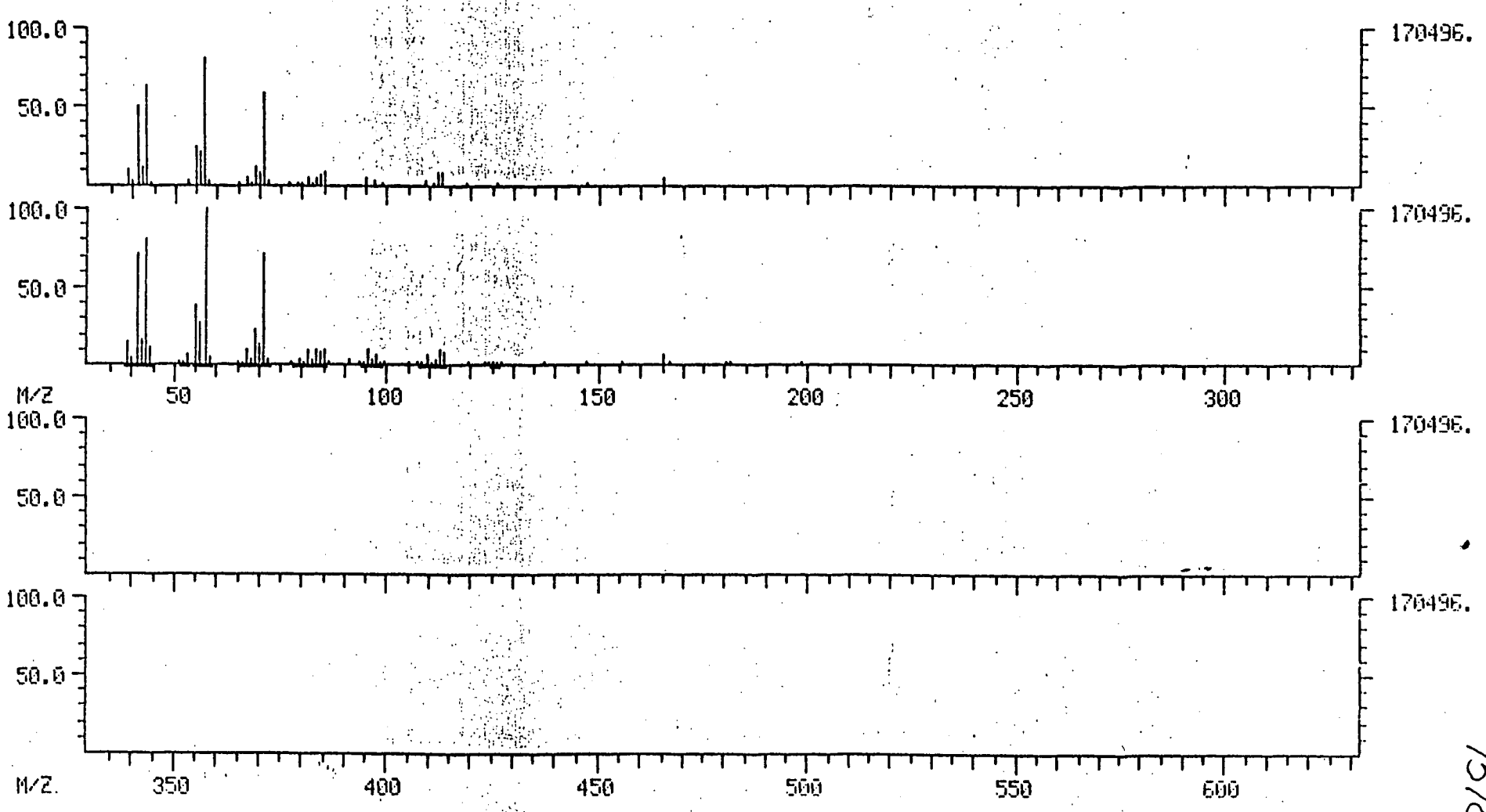
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H28	184	57	814	985	814
2	C13.H28	184	57	819	970	819
3	C13.H28	184	57	825	967	826
4	C14.H30	198	57	795	947	817
5	C11.H24	156	57	740	943	762

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	----	----	----	----	62108-25-2
2	----	----	----	----	62108-22-9
3	----	----	----	----	62108-26-3
4	----	----	----	----	26730-14-3
5	----	----	----	----	62016-34-6

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 14:39
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 142 DEG. C
ENHANCED (S 15B 2W 0T)

DATA: 14558RN7 #915
CALI: 14558RN7 #2

BASE M/Z: 57/ 57
RIC: 761855./ 1107960.

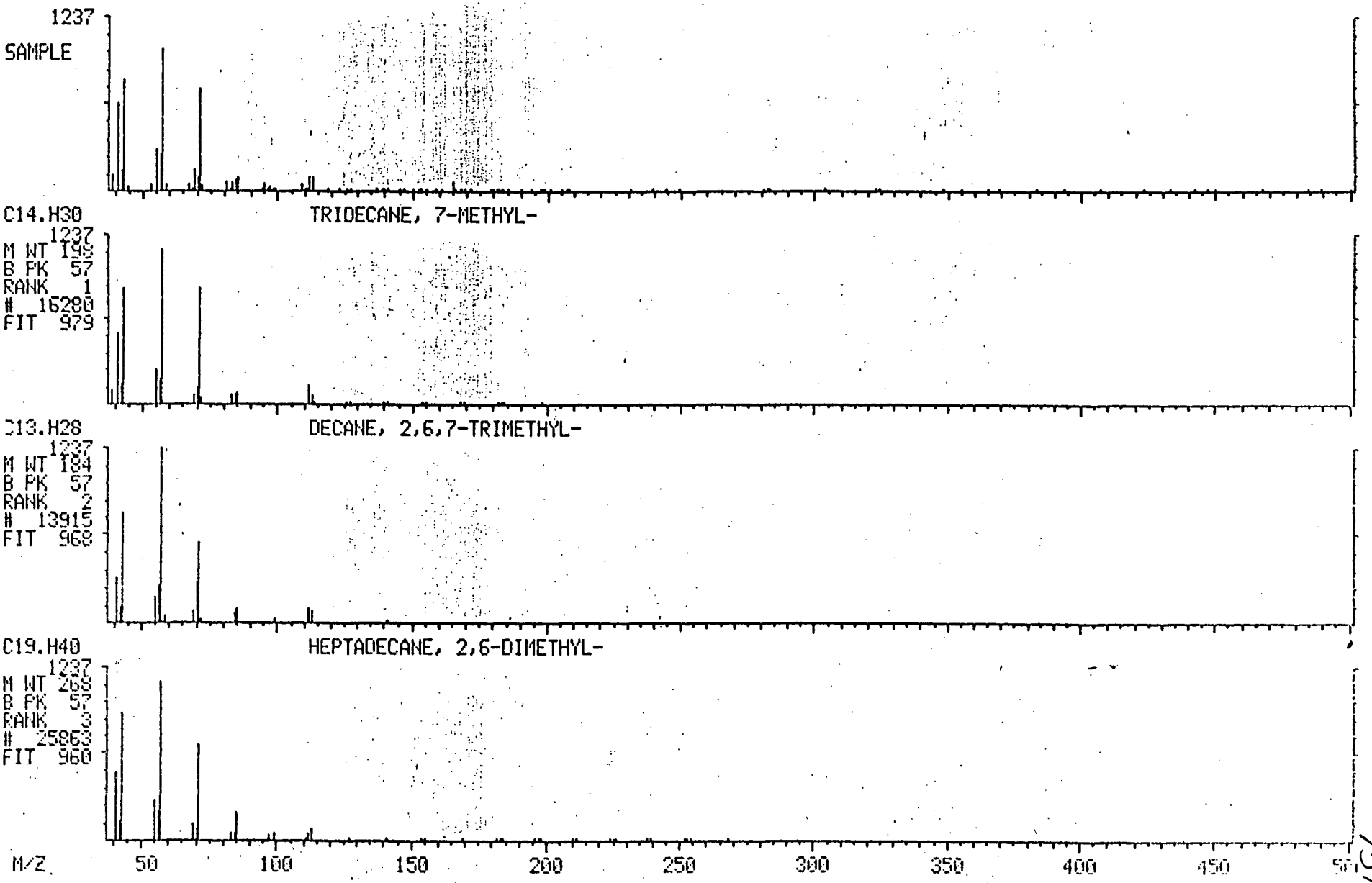


2/51

MID LIBRARY SEARCH
08/26/87 1:58:00 + 14:39
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML;1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 # 915
CALI: 14558RN7 # 2

BASE M/Z: 57
RIC: 741375.



1519

MID Library Search Data: 14558RN7 # 915 Base m/z: 57
08/26/87 1:58:00 + 14:39 Cali: 14558RN7 # 2 RIC: 741375.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	16280	TRIDECANE, 7-METHYL-
2	13915	DECANE, 2,6,7-TRIMETHYL-
3	25863	HEPTADECANE, 2,6-DIMETHYL-
4	11940	HYDROXYLAMINE, O-DECYL-
5	8732	OCTANE, 2,3,7-TRIMETHYL-

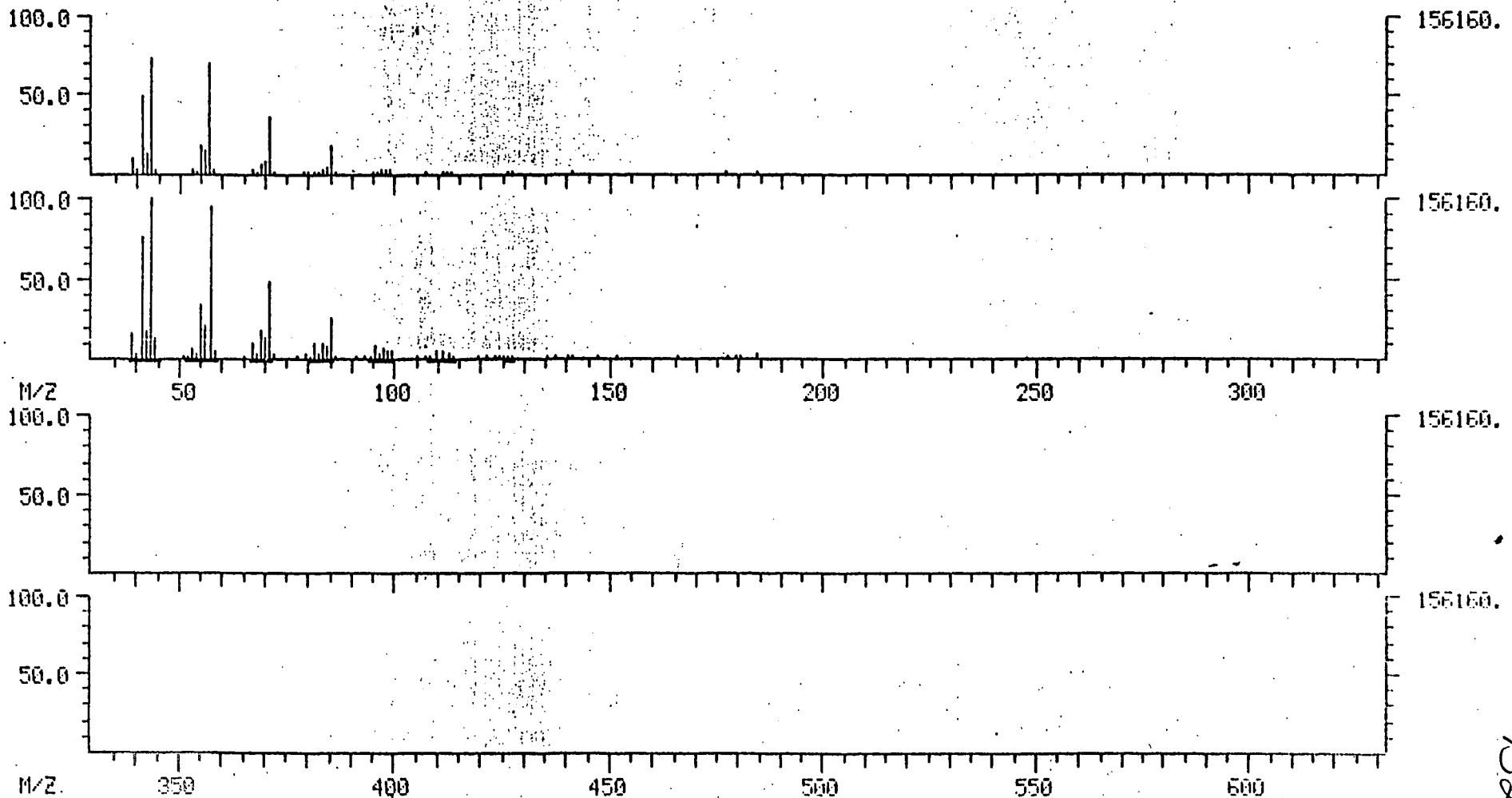
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H30	198	57	794	979	799
2	C13.H28	184	57	743	968	743
3	C19.H40	268	57	773	960	785
4	C10.H23.O.N	173	43	727	949	730
5	C11.H24	156	57	712	946	733

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	26730-14-3
2	___	___	___	___	62108-25-2
3	___	___	___	___	54105-67-8
4	___	___	___	___	29812-79-1
5	___	___	___	___	62016-34-6

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 15:09
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 147 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #946
CALI: 14558RN7 #2

BASE M/Z: 43/ 43
RIC: 601087./ 1009660.

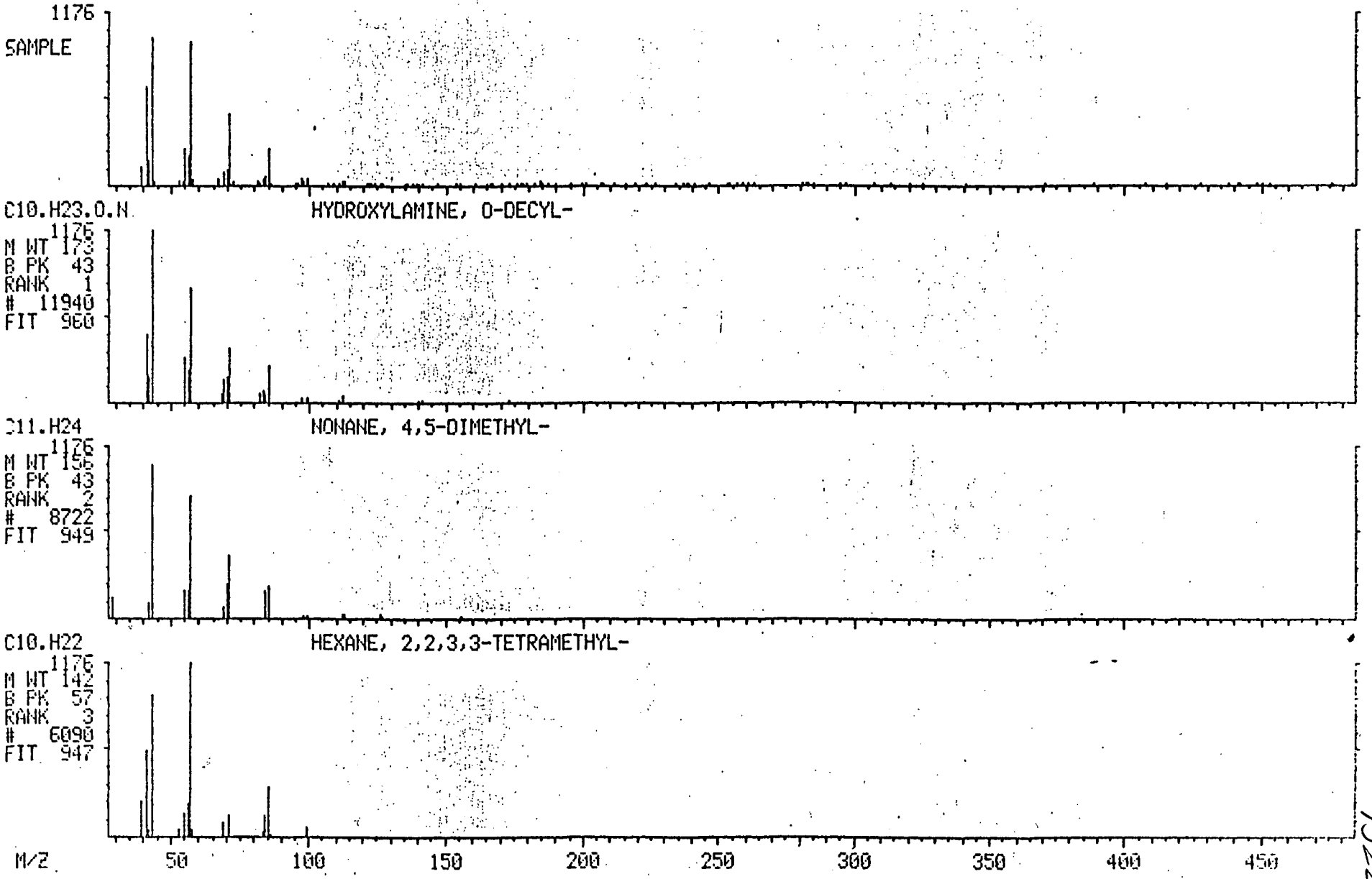


1521

MID LIBRARY SEARCH
08/26/87 1:58:00 + 15:09
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 # 946
CALI: 14558RN7 # 2

BASE M/Z: 43
RIC: 585727.



1522

MID Library Search Data: 14558RN7 # 946 Base m/z: 43
08/26/87 1:58:00 + 15:09 Cali: 14558RN7 # 2 RIC: 585727.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	11940	HYDROXYLAMINE, O-DECYL-
2	8722	NONANE, 4,5-DIMETHYL-
3	6090	HEXANE, 2,2,3,3-TETRAMETHYL-
4	13916	DECANE, 2,6,8-TRIMETHYL-
5	13913	DECANE, 2,5,6-TRIMETHYL-

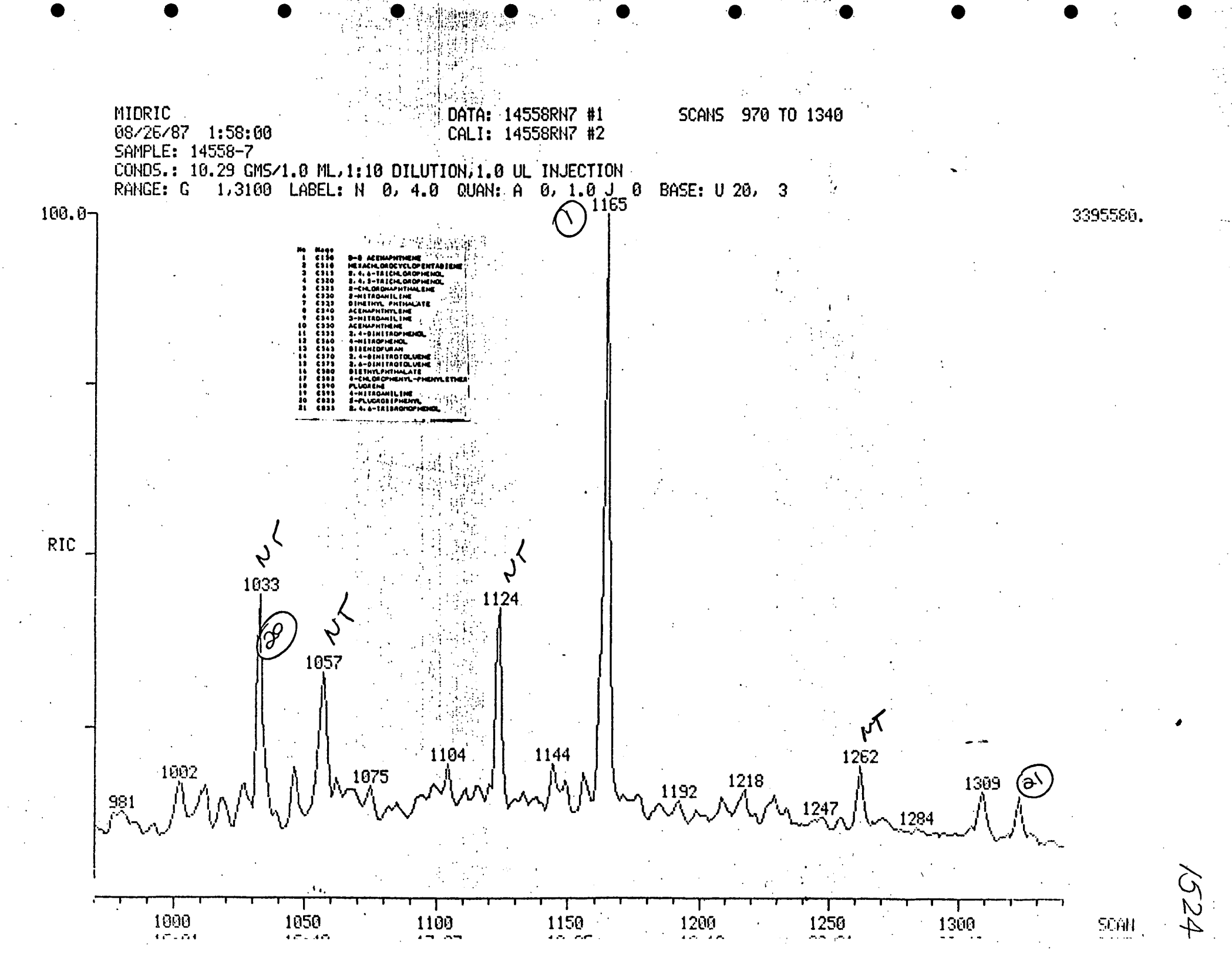
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H23.O.N	173	43	754	960	768
2	C11.H24	156	43	658	949	673
3	C10.H22	142	57	713	947	713
4	C13.H28	184	57	749	943	750
5	C13.H28	184	57	743	939	744

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	29812-79-1
2	———	———	———	———	17302-23-7
3	———	———	———	———	13475-81-5
4	———	———	———	———	62108-26-3
5	———	———	———	———	62108-23-0

MIDRIC
08/26/87 1:58:00
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558RN7 #1
CALI: 14558RN7 #2

SCANS 970 TO 1340



1524

1525

Quantitation Report File: 14558RN7

Data: 14558RN7.TI
08/26/87 1:58:00
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558RN7

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

No	Name		
1	CI50	D-8 ACENAPHTHENE	(INT. STD.)
2	C510	HEXACHLOROCYCLOPENTADIENE	**
3	C515	2,4,6-TRICHLOROPHENOL	*
4	C520	2,4,5-TRICHLOROPHENOL	
5	C525	2-CHLORONAPHTHALENE	
6	C530	2-NITROANILINE	
7	C535	DIMETHYL PHTHALATE	
8	C540	ACENAPHTHYLENE	
9	C545	3-NITROANILINE	
10	C550	ACENAPHTHENE	*
11	C555	2,4-DINITROPHENOL	**
12	C560	4-NITROPHENOL	**
13	C565	DIBENZOFURAN	
14	C570	2,4-DINITROTOLUENE	
15	C543	2,6-DINITROTOLUENE	
16	C580	DIETHYLPHTHALATE	
17	C585	4-CHLOROPHENYL-PHENYLETHER	
18	C590	FLUORENE	
19	C595	4-NITROANILINE	
20	CS25	2-FLUOROBIPHENYL	(SURROGATE)
21	CS55	2,4,6-TRIBROMOPHENOL	(SURROGATE)

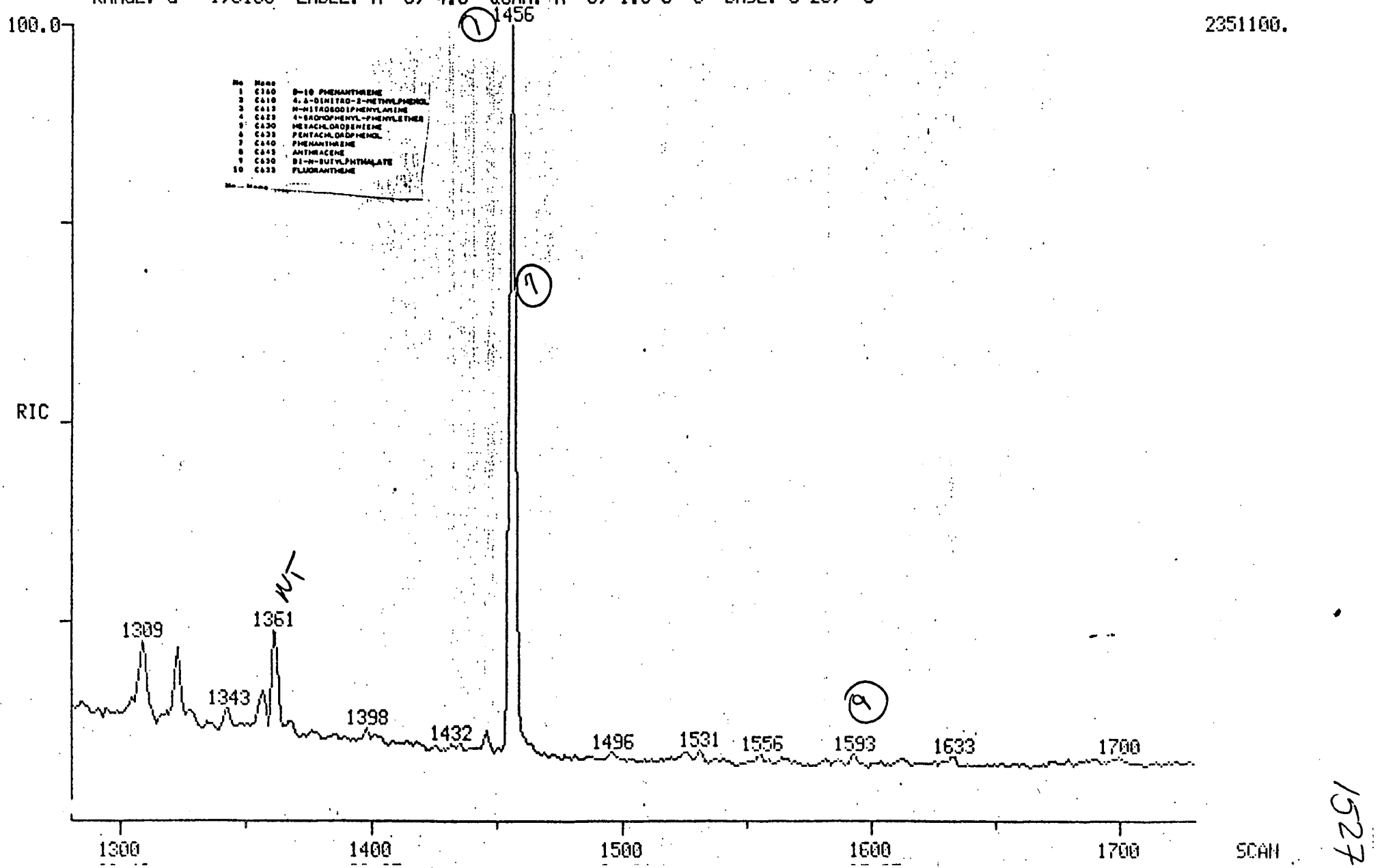
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	164	1165	18:39	1	1.000	A VB	1231680.	40.000 NG	71.16	
2	NOT FOUND									
3	196	1020	16:20	1	0.876	A*BB	~~2592.~~	~~0.217~~ NG	0.39	ND
4	196	1027	16:27	1	0.882	A*VV	~~4677.~~	~~0.362~~ NG	0.64	ND
5	162	1048	16:47	1	0.900	A BB	~~960.~~	~~0.027~~ NG	0.05	ND
6	65	1077	17:15	1	0.924	A*VV	~~9966.~~	~~0.475~~ NG	0.85	ND
7	163	1120	17:56	1	0.961	A*BV	~~5460.~~	~~0.117~~ NG	0.21	ND
8	152	1135	18:11	1	0.974	A*BB	~~6305.~~	~~0.113~~ NG	0.20	ND
9	138	1169	18:43	1	1.003	A*BB	~~4764.~~	~~0.493~~ NG	0.88	ND
10	153	1175	18:49	1	1.009	A*BB	~~6942.~~	~~0.186~~ NG	0.33	ND
11	NOT FOUND									
12	139	1202	19:15	1	1.032	A BV	~~5742.~~	~~1.193~~ NG	2.13	ND
13	168	1203	19:16	1	1.033	A VB	~~6176.~~	~~0.117~~ NG	0.21	ND
14	89	1216	19:28	1	1.044	A*BB	~~2752.~~	~~0.188~~ NG	0.33	ND
15	165	1138	18:13	1	0.977	A BV	~~3649.~~	~~0.358~~ NG	0.64	ND
16	149	1266	20:16	1	1.087	A*BV	~~7602.~~	~~0.145~~ NG	0.26	ND
17	204	1271	20:21	1	1.091	A BB	~~748.~~	~~0.038~~ NG	0.07	ND
18	166	1271	20:21	1	1.091	A VV	~~8320.~~	~~0.204~~ NG	0.36	ND
19	138	1283	20:33	1	1.101	A*VV	~~3728.~~	~~0.437~~ NG	0.78	ND
20	172	1035	16:35	1	0.888	A BB	153856.	4.242 NG	7.55	YES
21	330	1323	21:11	1	1.136	A BB	31040.	7.295 NG	12.98	YES

No	Rat(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:04		0.860						
3	16:20	1.00	0.875	1.00	0.22	50.00	0.002	0.387	0.00
4	16:27	1.00	0.881	1.00	0.36	50.00	0.003	0.420	0.01
5	16:51	1.00	0.902	1.00	0.03	50.00	0.001	1.160	0.00
6	17:19	1.00	0.927	1.00	0.48	50.00	0.006	0.681	0.01
7	18:02	0.99	0.966	1.00	0.12	50.00	0.004	1.519	0.00
8	18:10	1.00	0.973	1.00	0.11	50.00	0.004	1.815	0.00
9	18:37	1.01	0.997	1.01	0.49	50.00	0.003	0.313	0.01
10	18:45	1.00	1.004	1.00	0.19	50.00	0.005	1.215	0.00
11	18:57		1.015						
12	19:14	1.00	1.030	1.00	1.20	50.00	0.004	0.156	0.02
13	19:16	1.00	1.032	1.00	0.12	50.00	0.004	1.717	0.00
14	19:27	1.00	1.041	1.00	0.19	50.00	0.002	0.475	0.00
15	18:13	1.00	0.976	1.00	0.36	50.00	0.002	0.331	0.01
16	20:18	1.00	1.087	1.00	0.15	50.00	0.005	1.702	0.00
17	20:25	1.00	1.093	1.00	0.04	50.00	0.000	0.655	0.00
18	20:22	1.00	1.091	1.00	0.20	50.00	0.005	1.325	0.00
19	20:35	1.00	1.102	1.00	0.44	50.00	0.002	0.277	0.01
20	16:35	1.00	0.889	1.00	4.24	50.00	0.100	1.178	0.08
21	21:12	1.00	1.136	1.00	7.30	50.00	0.020	0.138	0.15

MIDRIC
08/26/87 1:58:00
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558RN7 #1
CALI: 14558RN7 #2

SCANS 1280 TO 1730



1527

1528

Quantitation Report File: 14558RN7

Data: 14558RN7.TI
08/26/87 1:58:00
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558RN7

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

No	Name		
1	CI60	D-10 PHENANTHRENE	(INT. STD.)
2	C610	4,6-DINITRO-2-METHYLPHENOL	
3	C615	N-NITROSODIPHENYLAMINE	*
4	C625	4-BROMOPHENYL-PHENYLETHER	
5	C630	HEXACHLOROBENZENE	
6	C635	PENTACHLOROPHENOL	*
7	C640	PHENANTHRENE	
8	C645	ANTHRACENE	
9	C650	DI-N-BUTYLPHTHALATE	
10	C655	FLUORANTHENE	*

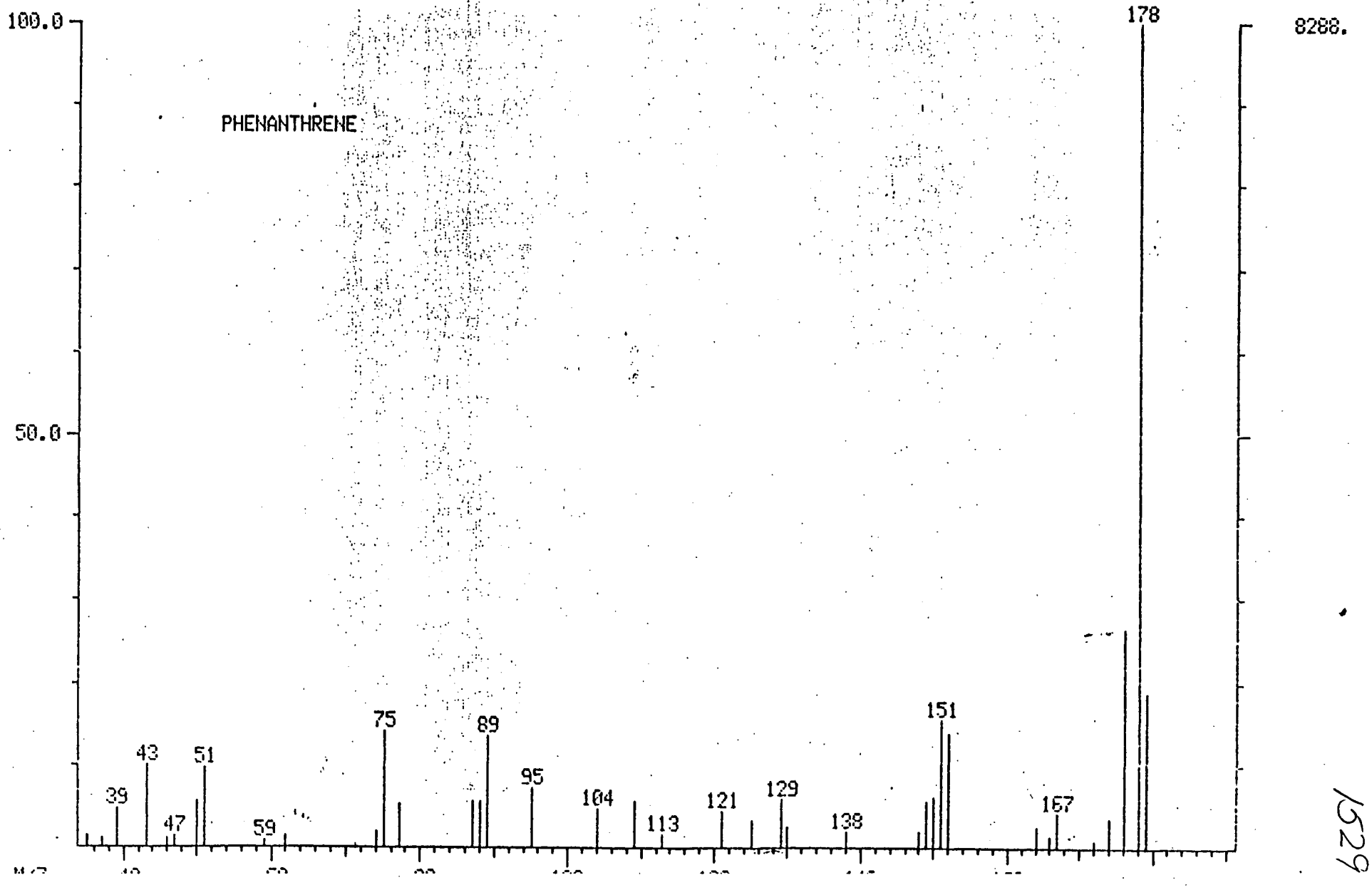
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	188	1456	23:19	1	1.000	A BB	1746570.	40.000 NG	95.44
2	198	1290	20:40	1	0.886	A BB	~~192.~~	~~0.119~~ NG	0.28
3	169	1291	20:40	1	0.887	A*BB	~~4213.~~	~~0.185~~ NG	0.44
4	248	1363	21:50	1	0.936	A BB	~~352.~~	~~0.036~~ NG	0.09
5	NOT FOUND								
6	NOT FOUND								
7	178	1461	23:24	1	1.003	A VV	28896.	0.630 NG	1.50
8	178	1470	23:32	1	1.010	A BB	~~4311.~~	~~0.092~~ NG	0.22
9	149	1593	25:31	1	1.094	A BB	37100.	0.540 NG	1.29
10	202	1700	27:13	1	1.168	A BV	~~14560.~~	~~0.309~~ NG	0.74

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	23:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:43	1.00	0.888	1.00	0.12	50.00	0.000	0.037	0.00
3	20:50	0.99	0.893	0.99	0.19	50.00	0.002	0.521	0.00
4	21:57	0.99	0.941	0.99	0.04	50.00	0.000	0.224	0.00
5	22:23		0.960						
6	22:59		0.985						
7	23:25	1.00	1.003	1.00	0.63	50.00	0.013	1.051	0.01
8	23:33	1.00	1.010	1.00	0.09	50.00	0.002	1.073	0.00
9	25:32	1.00	1.094	1.00	0.54	50.00	0.017	1.574	0.01
10	27:15	1.00	1.168	1.00	0.31	50.00	0.007	1.079	0.01

MID MASS SPECTRUM
08/26/87 1:58:00 + 23:24
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 213 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #1461
CALI: 14558RN7 #2

BASE M/Z: 178
RIC: 31232.

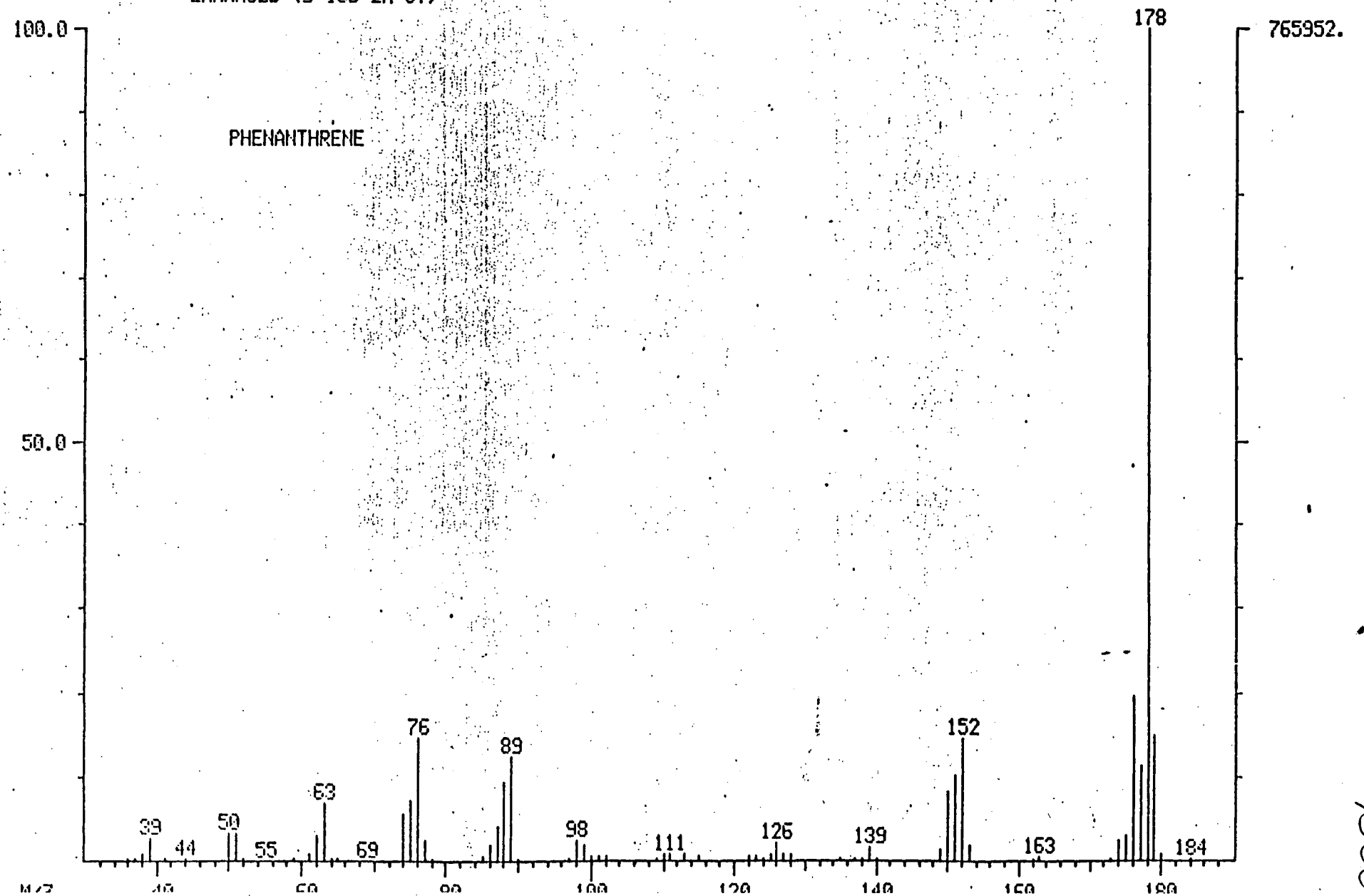


1529

MID MASS SPECTRUM
03/17/87 17:10:00 + 26:47
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 240 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1668
CALI: HSC50317 #2

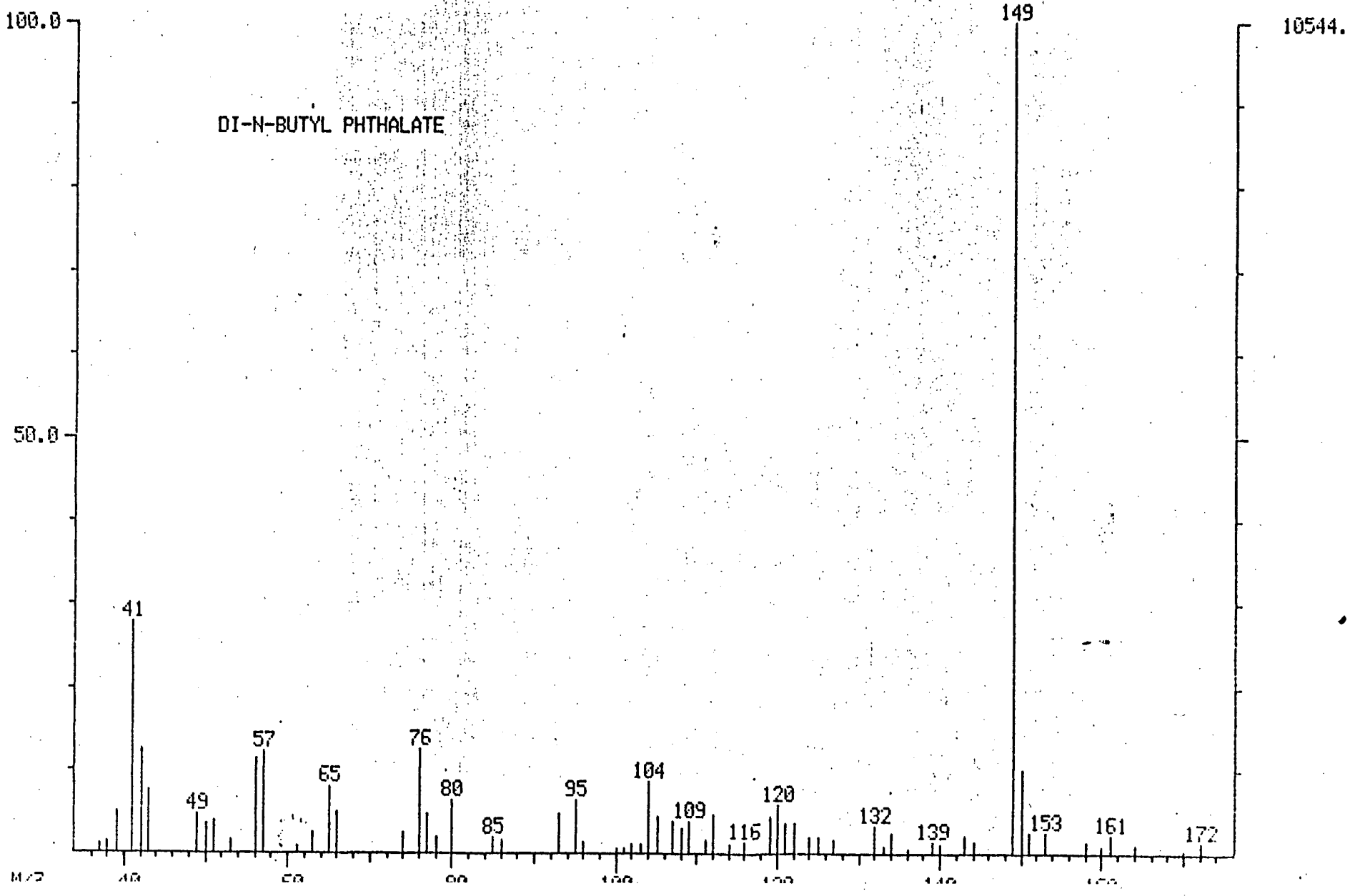
BASE M/Z: 178
RIC: 2232310.



MID MASS SPECTRUM
08/26/87 1:58:00 + 25:31
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 230 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #1593
CALI: 14558RN7 #2

BASE M/Z: 149
RIC: 42112.



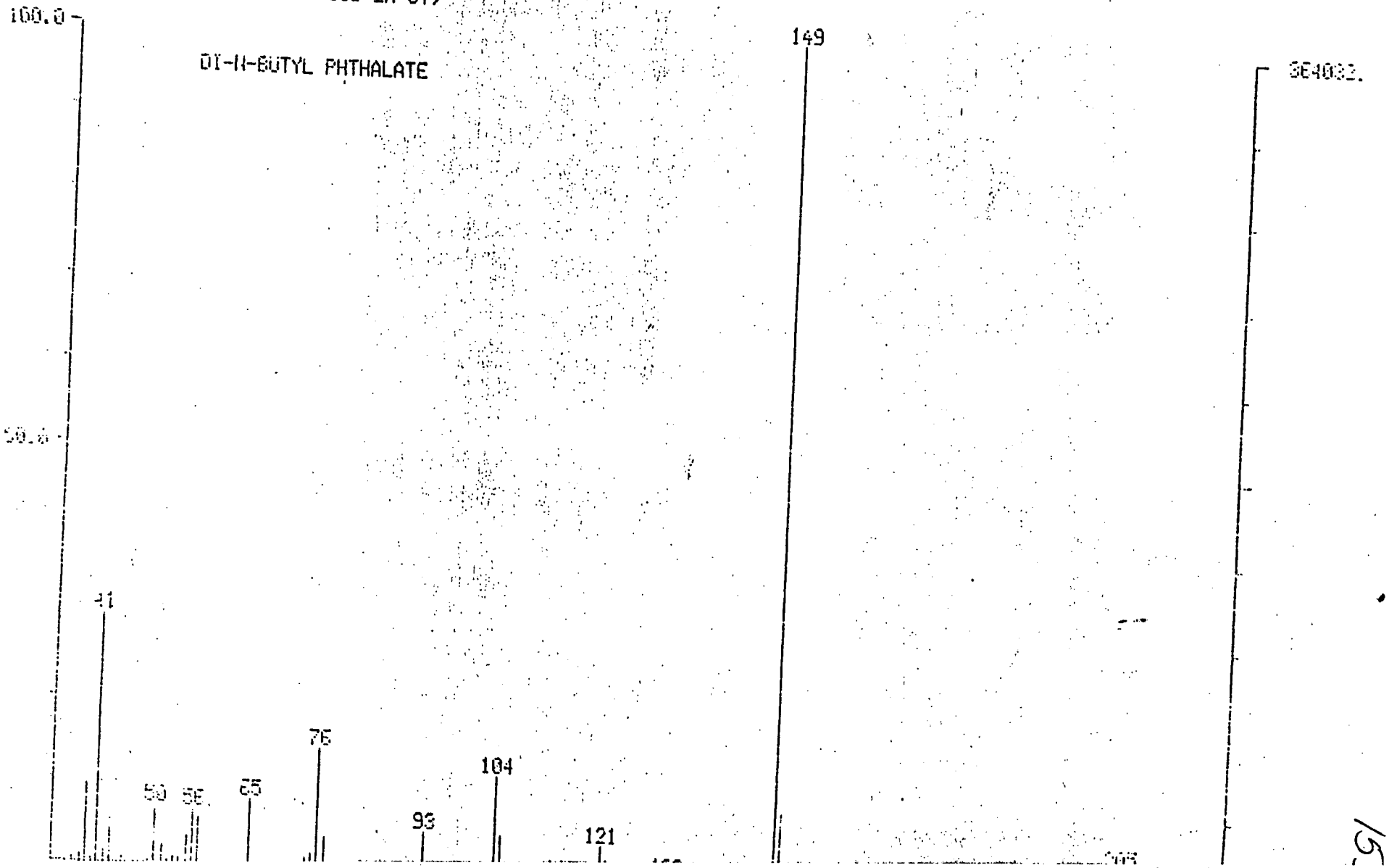
153/

MID MASS SPECTRUM
10/20/86 1:28:00 + 29:06
SAMPLE: HSL STANDARD 10/20/86 A.M.
COMDS.: 80 NG INJECTION
GC TEMP: 260 DEG. C
ENHANCED (S 156 2N 0T)

DI-N-BUTYL PHTHALATE

DATA: HSA801020A #1801
CALI: HSA801020A #2

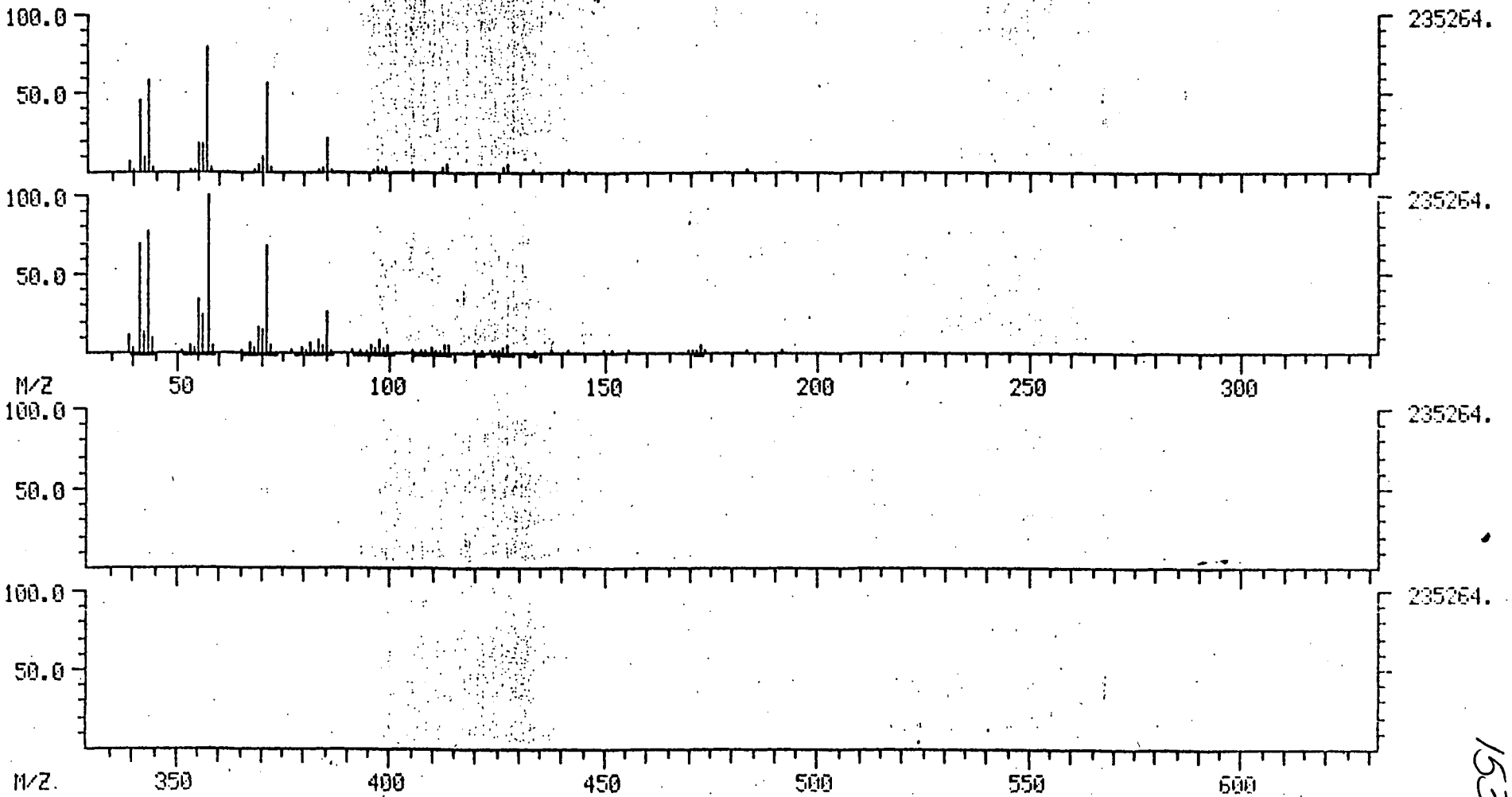
BASE M/Z: 149
RIC: 1003520.



MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 16:33
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML/1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 157 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #1033
CALI: 14558RN7 #2

BASE M/Z: 57/ 57
RIC: 920575./ 1492990.

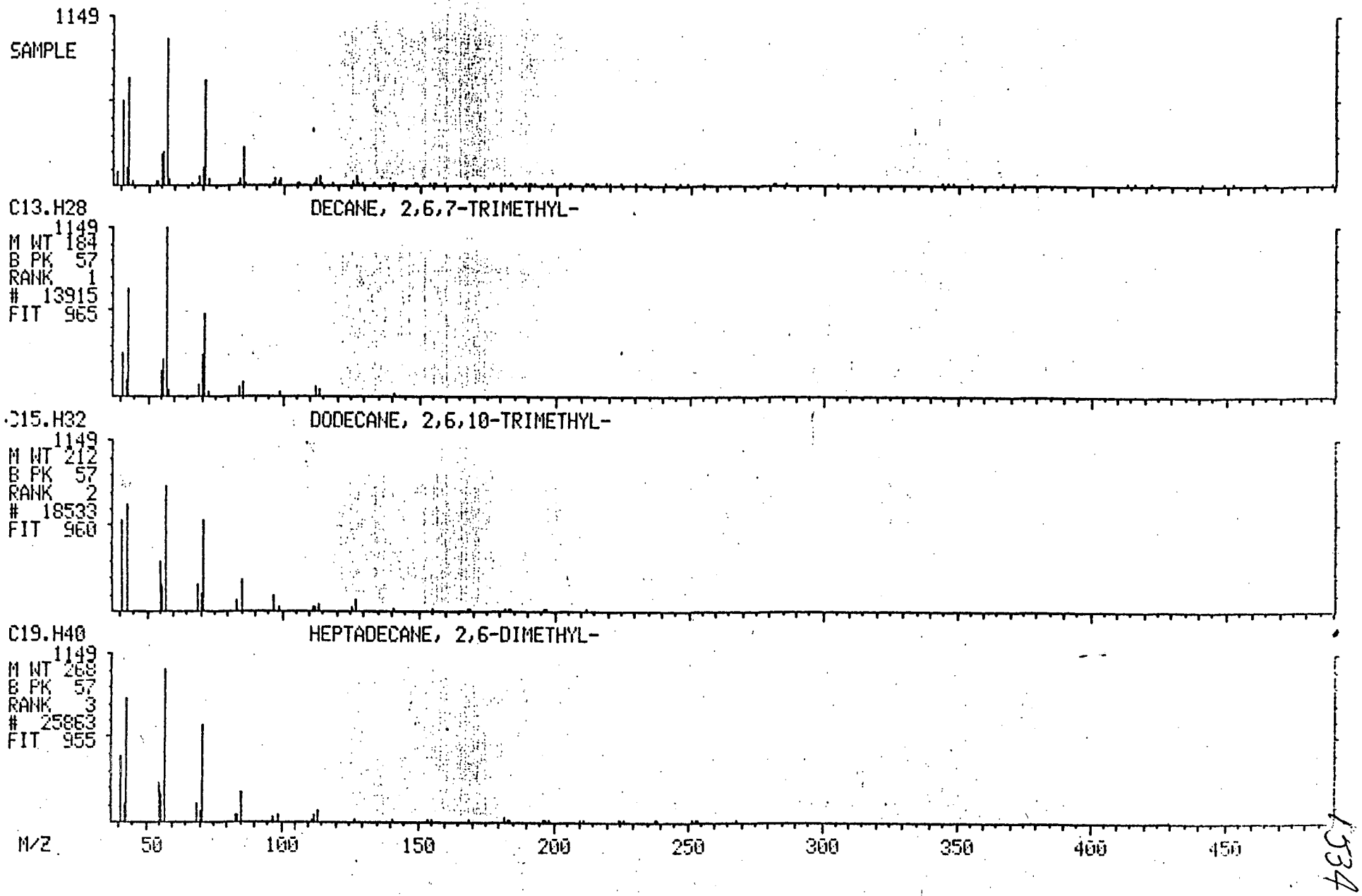


1533

MID LIBRARY SEARCH
08/26/87 1:58:00 + 16:33
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML;1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #1033
CALI: 14558RN7 # 2

BASE M/Z: 57
RIC: 907263.



1534

MID Library Search Data: 14558RN7 #1033 Base m/z: 57
08/26/87 1:58:00 + 16:33 Cali: 14558RN7 # 2 RIC: 907263.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	13915	DECANE, 2,6,7-TRIMETHYL-
2	18533	DODECANE, 2,6,10-TRIMETHYL-
3	25863	HEPTADECANE, 2,6-DIMETHYL-
4	18541	DODECANE, 2,7,10-TRIMETHYL-
5	13920	NONANE, 5-(2-METHYLPROPYL)-

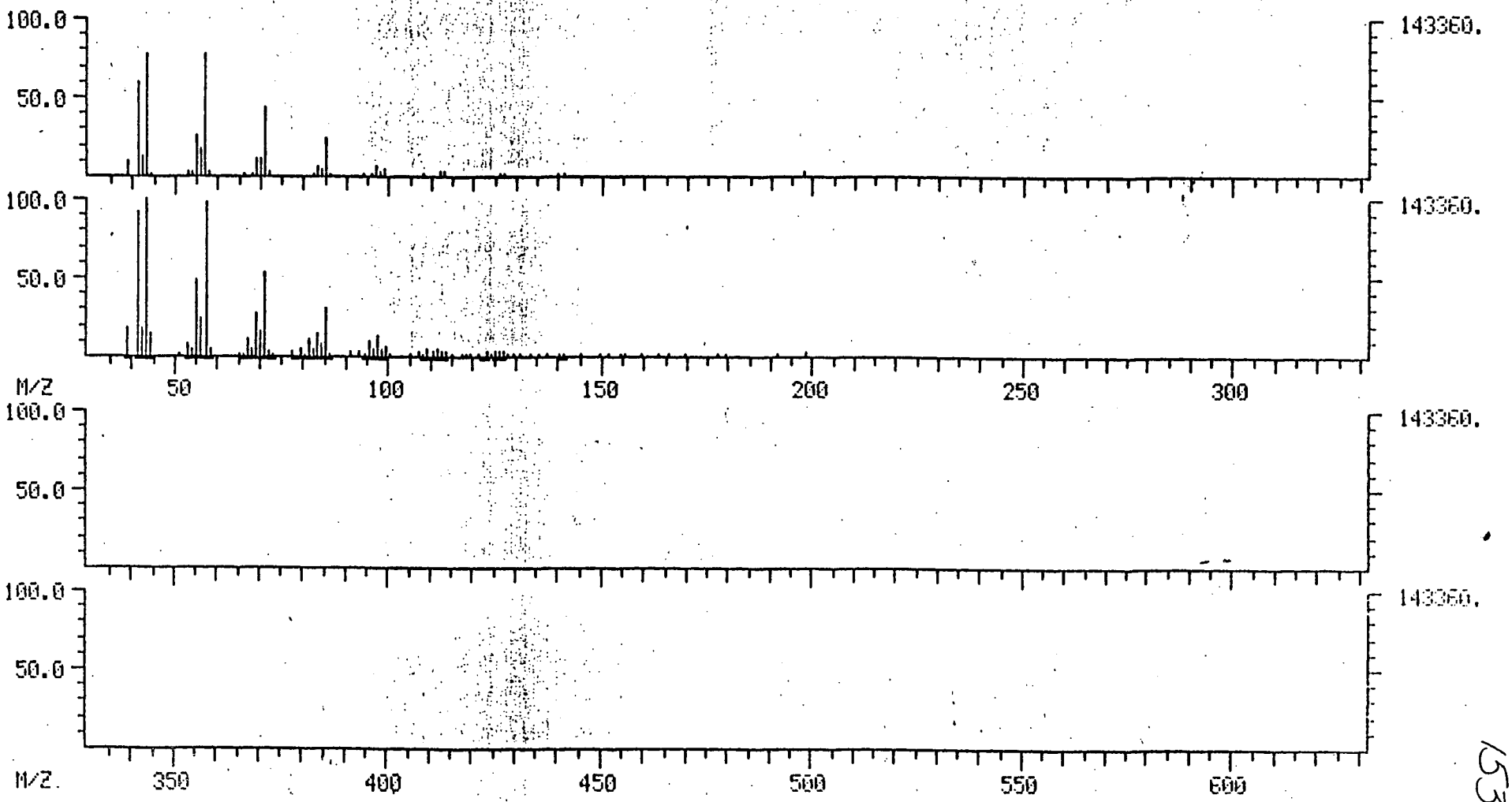
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H28	184	57	788	965	788
2	C15.H32	212	57	825	960	831
3	C19.H40	268	57	831	955	853
4	C15.H32	212	57	804	952	835
5	C13.H28	184	43	761	952	776

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	———	———	———	———	62108-25-2
2	———	———	———	———	3891-98-3
3	———	———	———	———	54105-67-8
4	———	———	———	———	74645-98-0
5	———	———	———	———	62185-53-9

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 16:56
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 161 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #1057
CALI: 14558RN7 #2

BASE M/Z: 57/ 43
RIC: 652287./ 1103870.

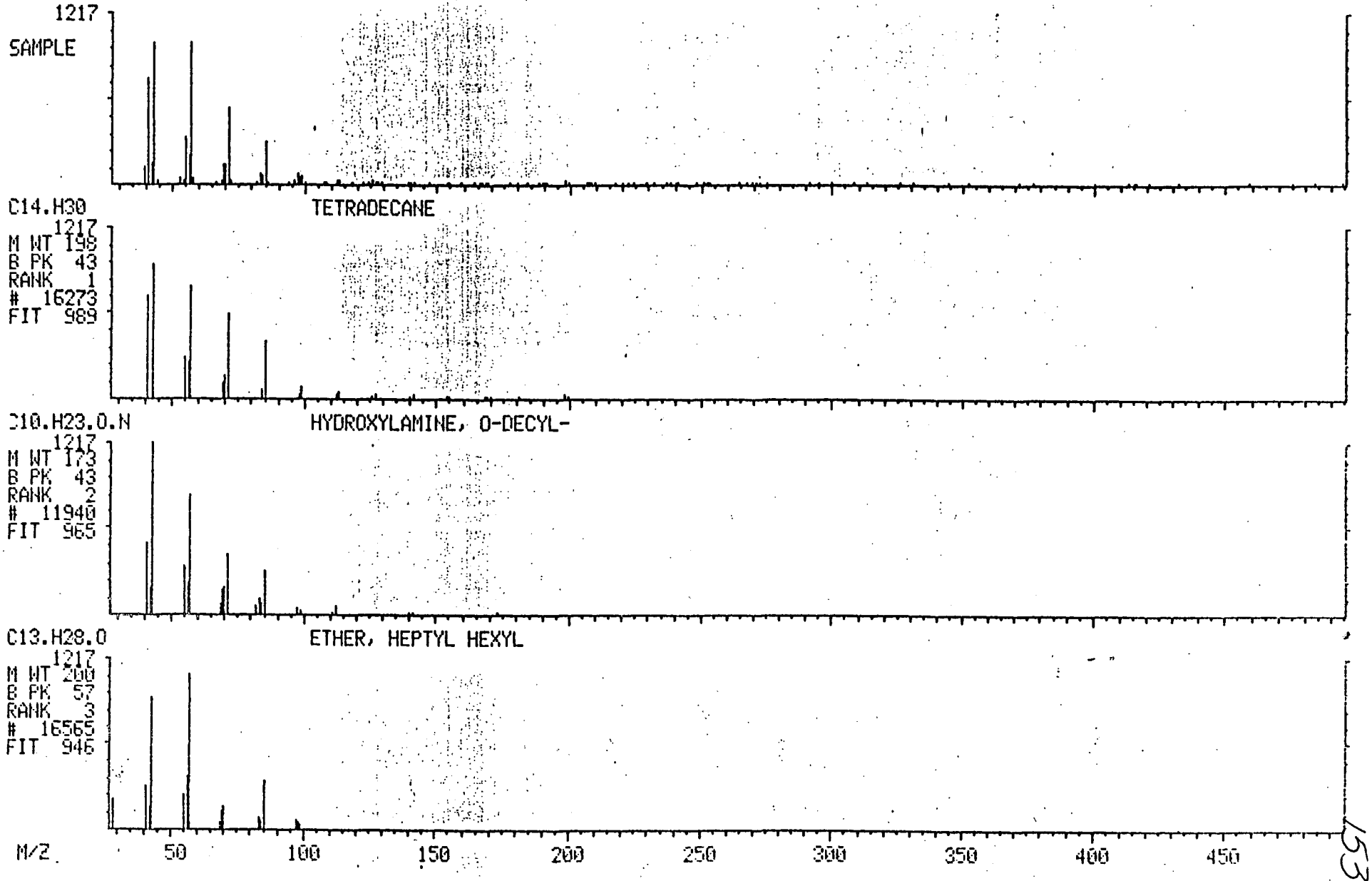


1536

MID LIBRARY SEARCH
08/26/87 1:58:00 + 16:56
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #1057
CALI: 14558RN7 # 2

BASE M/Z: 57
RIC: 641023.



153

1538

MID Library Search Data: 14558RN7 #1057 Base m/z: 57
08/26/87 1:58:00 + 16:56 Cali: 14558RN7 # 2 RIC: 641023.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	16273	TETRADECANE
2	11940	HYDROXYLAMINE, O-DECYL-
3	16565	ETHER, HEPTYL HEXYL
4	8722	NONANE, 4,5-DIMETHYL-
5	39452	DECANEDIOIC ACID, DIDECYL ESTER

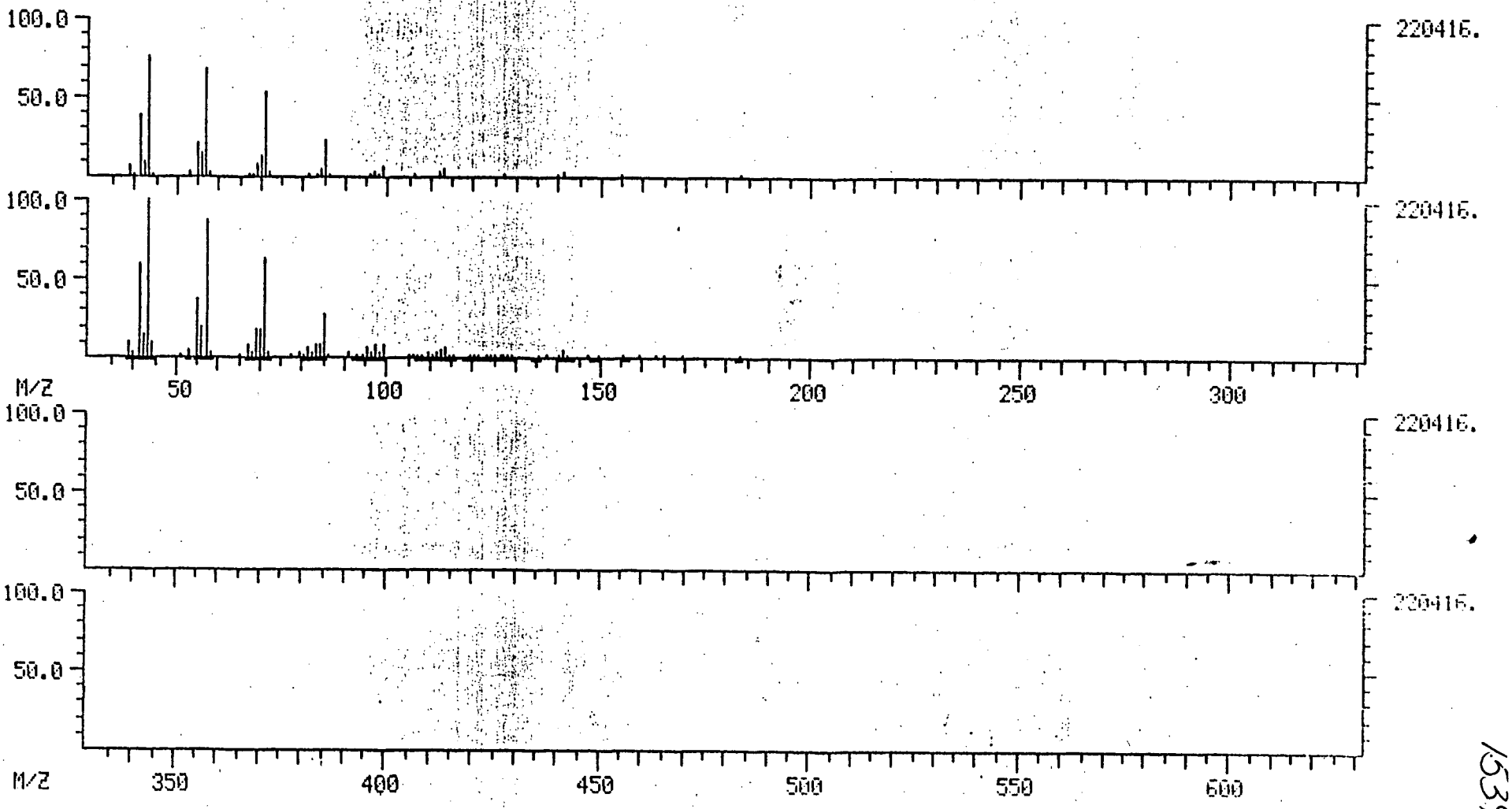
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H30	198	43	799	989	802
2	C10.H23.O.N	173	43	773	965	783
3	C13.H28.O	200	57	643	946	660
4	C11.H24	156	43	657	945	671
5	C30.H58.O4	482	57	736	940	747

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	629-59-4
2	———	———	———	———	29812-79-1
3	———	———	———	———	7289-40-9
4	———	———	———	———	17302-23-7
5	———	———	———	———	2432-89-5

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 18:00
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 169 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #1124
CALI: 14558RN7 #2

BASE M/Z: 43/ 43
RIC: 886783./ 1425400.

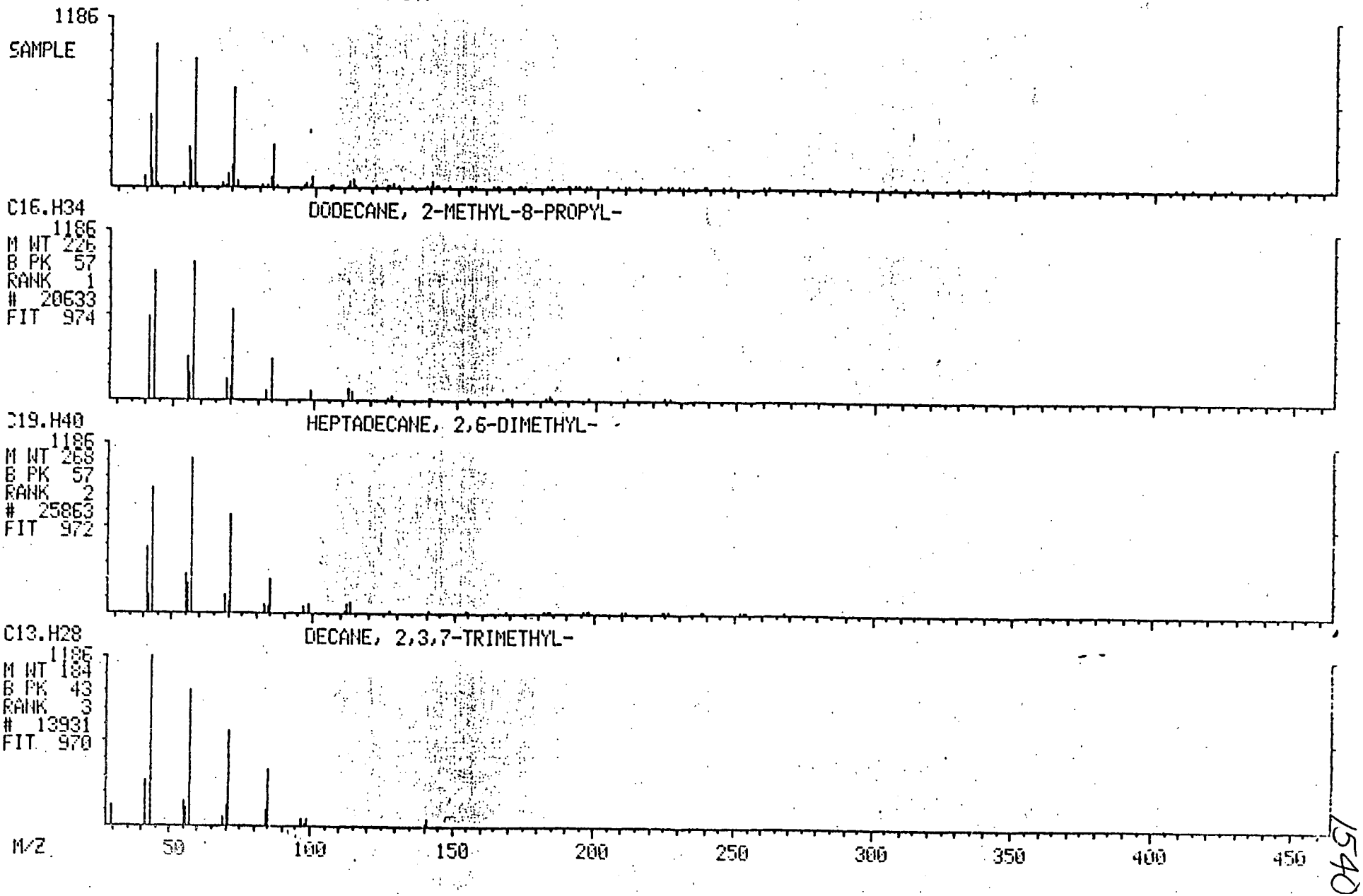


1539

MID LIBRARY SEARCH
08/26/87 1:58:00 + 18:00
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 158 2N 0T)

DATA: 14558RN7 #1124
CALI: 14558RN7 # 2

BASE M/Z: 43
RIC: 870399.



1540

MID Library Search Data: 14558RN7 #1124 Base m/z: 43
08/26/87 1:58:00 + 18:00 Cali: 14558RN7 # 2 RIC: 870399.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	20633	DODECANE, 2-METHYL-8-PROPYL-
2	25863	HEPTADECANE, 2,6-DIMETHYL-
3	13931	DECANE, 2,3,7-TRIMETHYL-
4	20637	TRIDECANE, 5-PROPYL-
5	13915	DECANE, 2,6,7-TRIMETHYL-

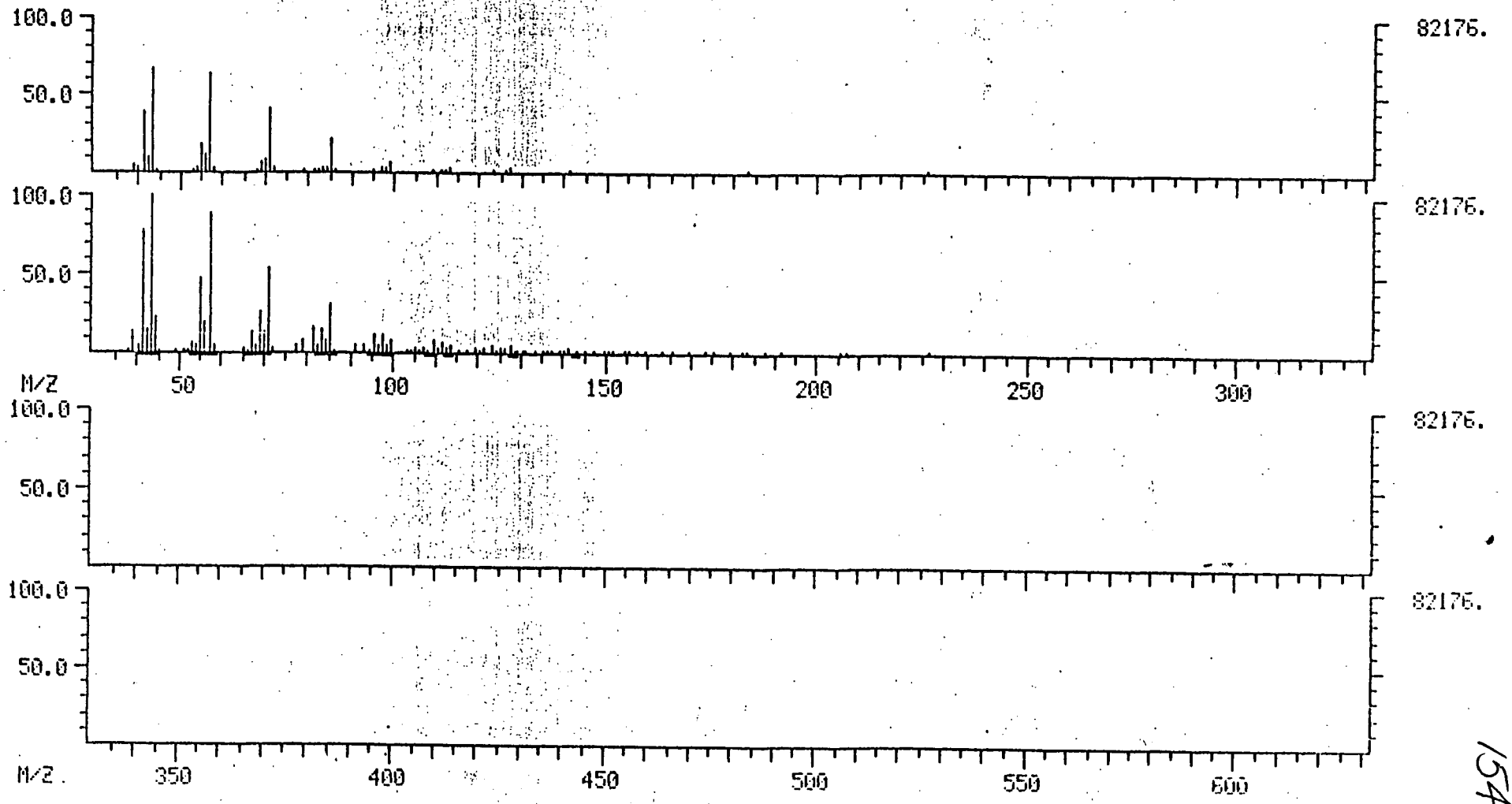
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H34	226	57	809	974	811
2	C19.H40	268	57	848	972	851
3	C13.H28	184	43	749	970	761
4	C16.H34	226	57	799	966	800
5	C13.H28	184	57	786	962	786

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	———	———	———	———	55045-07-3
2	———	———	———	———	54105-67-8
3	———	———	———	———	62238-13-5
4	———	———	———	———	55045-11-9
5	———	———	———	———	62108-25-2

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 20:13
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 187 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #1262
CALI: 14558RN7 #2

BASE M/Z: 43/ 43
RIC: 297471./ 662527.

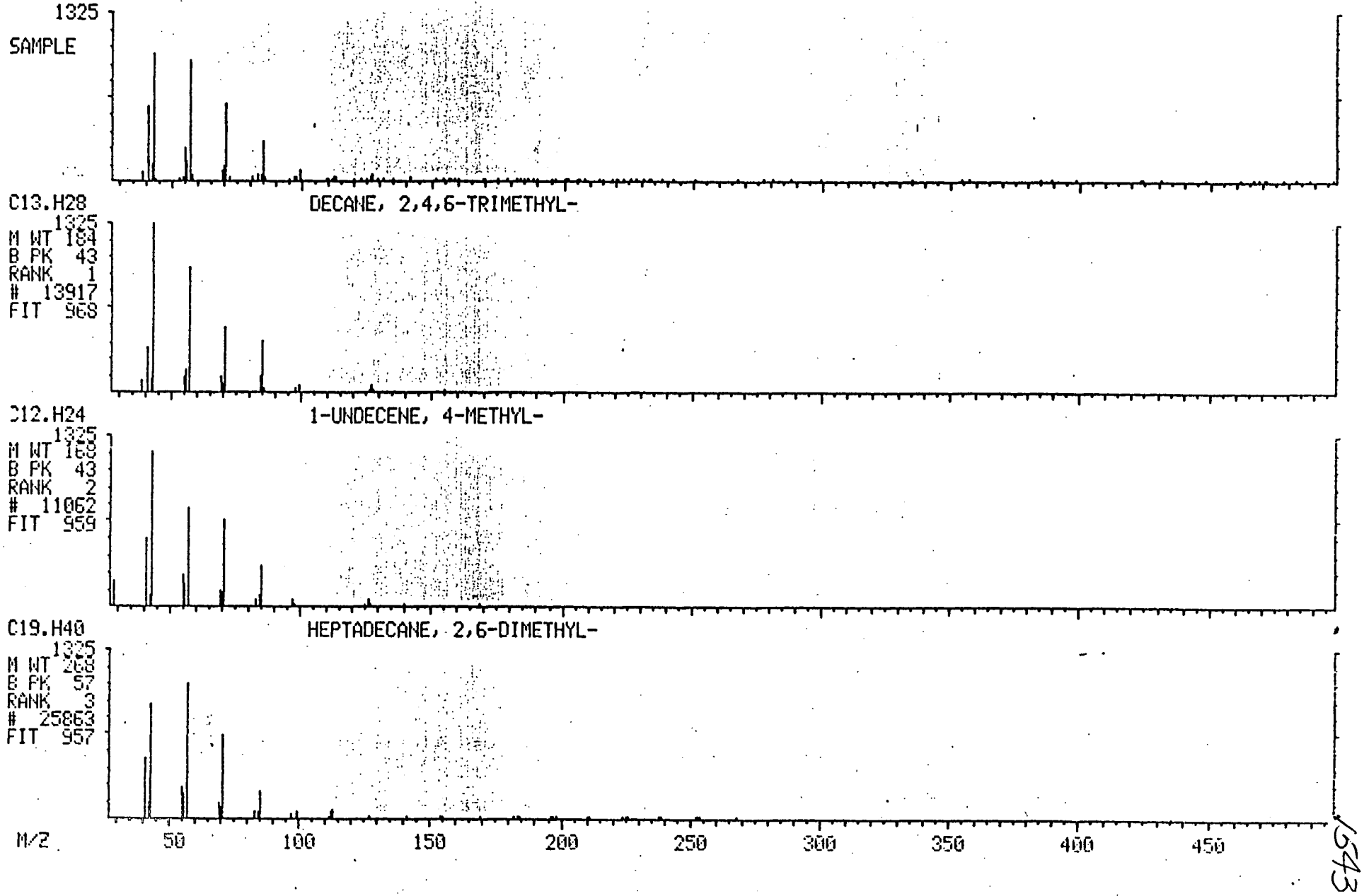


1542

MID LIBRARY SEARCH
08/26/87 1:58:00 + 20:13
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #1262
CALI: 14558RN7 # 2

BASE M/Z: 43
RIC: 287743.



1543

MID Library Search Data: 14558RN7 #1262 Base m/z: 43
08/26/87 1:58:00 + 20:13 Cali: 14558RN7 # 2 RIC: 287743.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	13917	DECANE, 2,4,6-TRIMETHYL-
2	11062	1-UNDECENE, 4-METHYL-
3	25863	HEPTADECANE, 2,6-DIMETHYL-
4	13904	UNDECANE, 5,7-DIMETHYL-
5	8728	OCTANE, 5-ETHYL-2-METHYL-

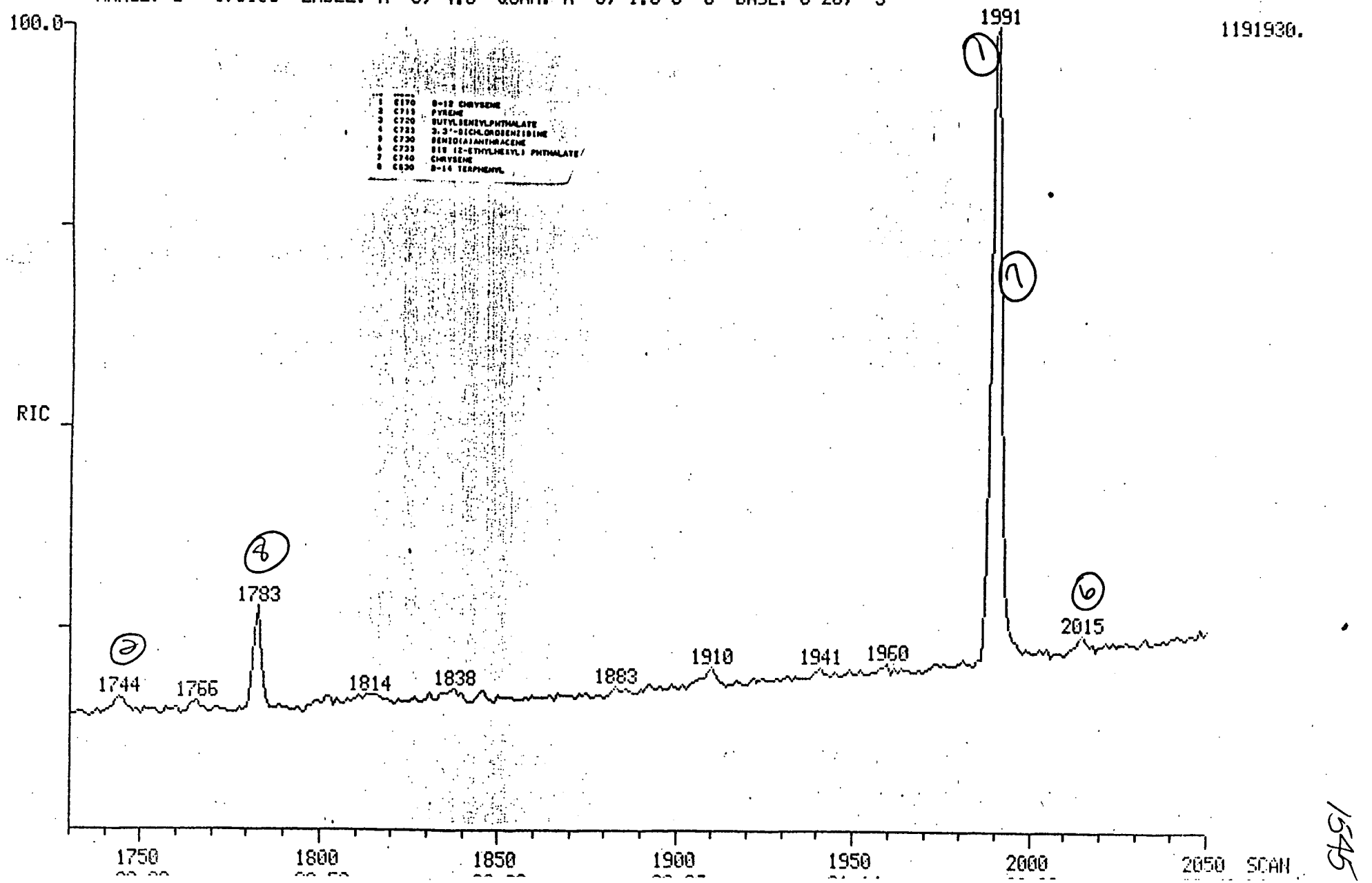
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H28	184	43	728	968	732
2	C12.H24	168	43	708	959	725
3	C19.H40	268	57	776	957	788
4	C13.H28	184	43	700	948	716
5	C11.H24	156	43	679	946	703

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	62108-27-4
2	___	___	___	___	74630-39-0
3	___	___	___	___	54105-67-8
4	___	___	___	___	17312-83-3
5	___	___	___	___	62016-18-6

MIDRIC
08/26/87 1:58:00
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558RN7 #1
CALI: 14558RN7 #2

SCANS 1730 TO 2050



1545

Quantitation Report File: 14558RN7

Data: 14558RN7.TI
08/26/87 1:58:00
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558RN7

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

No	Name		
1	CI70	D-12 CHRYSENE	(INT. STD.)
2	C715	PYRENE	
3	C720	BUTYLBENZYLPHTHALATE	
4	C725	3,3'-DICHLOROBENZIDINE	
5	C730	BENZO(A)ANTHRACENE	
6	C745	BIS(2-ETHYLHEXYL) PHTHALATE	
7	C740	CHRYSENE	
8	CS30	D-14 TERPHENYL	(SURROGATE)

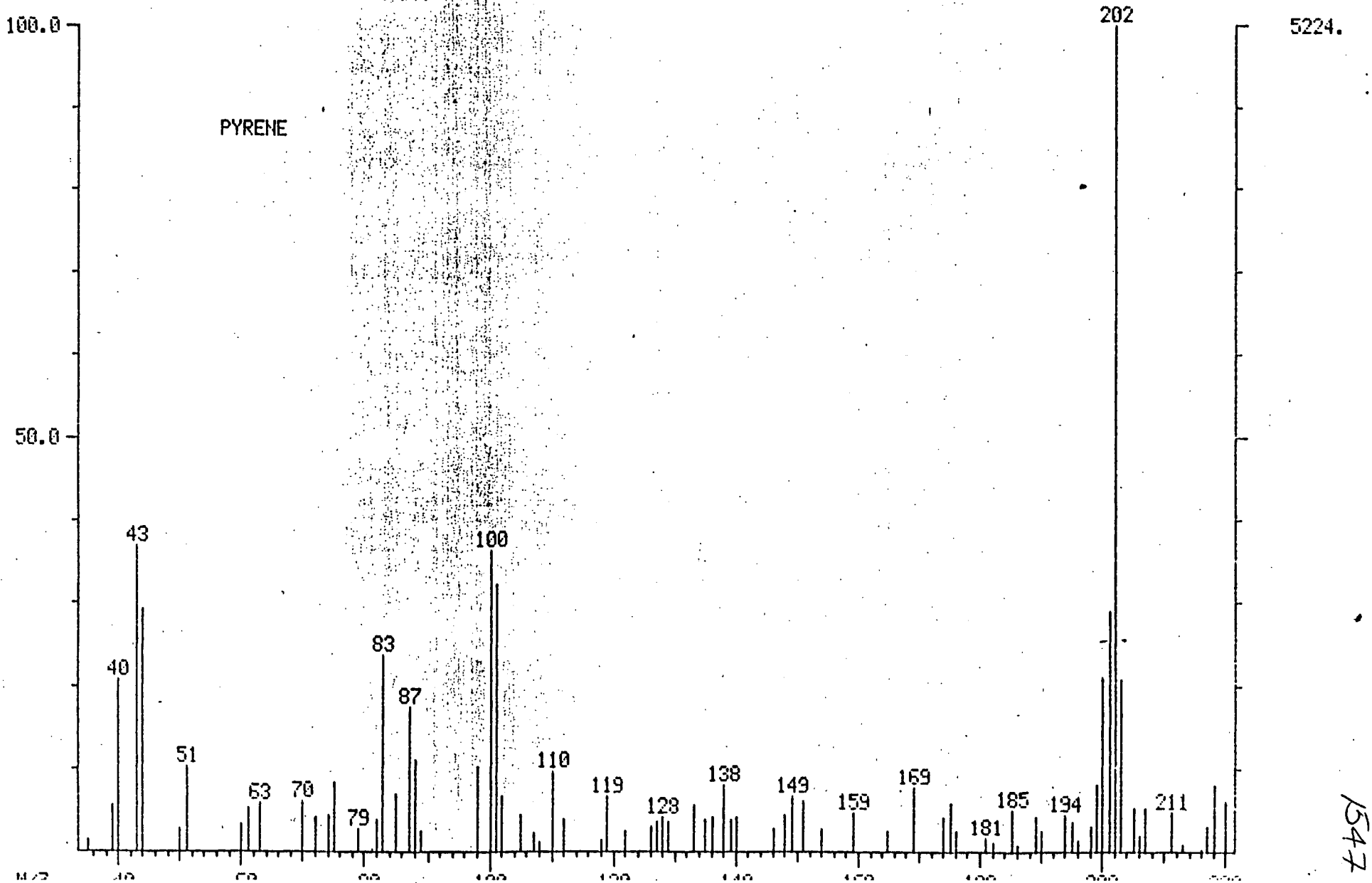
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	240	1990	31:52	1	1.000	A BB	887817.	40.000	NG	81.59	
2	202	1744	27:56	1	0.876	A BB	18080.	0.659	NG	1.34	YES QQQ
3	149	1891	30:17	1	0.950	A*VB	~~4974.~~	~~0.235~~	NG	0.58	NO QQQ
4	252	1988	31:50	1	0.999	A*BB	~~8040.~~	~~0.440~~	NG	0.90	NO QQQ
5	228	1987	31:49	1	0.998	A BV	~~7261.~~	~~0.291~~	NG	0.59	NO QQQ
6	149	2015	32:16	1	1.013	A VV	~~17374.~~	~~0.677~~	NG	1.38	NO QQQ
7	228	1995	31:57	1	1.003	A VB	~~12523.~~	~~0.533~~	NG	1.09	NO QQQ
8	244	1783	28:33	1	0.896	A BB	107488.	6.137	NG	12.52	YES QQQ

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	31:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	27:57	1.00	0.876	1.00	0.66	50.00	0.016	1.236	0.01
3	30:19	1.00	0.950	1.00	0.29	50.00	0.004	0.786	0.01
4	31:52	1.00	0.999	1.00	0.44	50.00	0.003	0.311	0.01
5	31:51	1.00	0.998	1.00	0.29	50.00	0.007	1.125	0.01
6	32:18	1.00	1.013	1.00	0.68	50.00	0.016	1.156	0.01
7	32:00	1.00	1.003	1.00	0.53	50.00	0.011	1.058	0.01
8	28:34	1.00	0.896	1.00	6.14	50.00	0.097	0.789	0.12

MID MASS SPECTRUM
08/26/87 1:58:00 + 27:56
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 250 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #1744
CALI: 14558RN7 #2

BASE M/Z: 202
RIC: 38528.

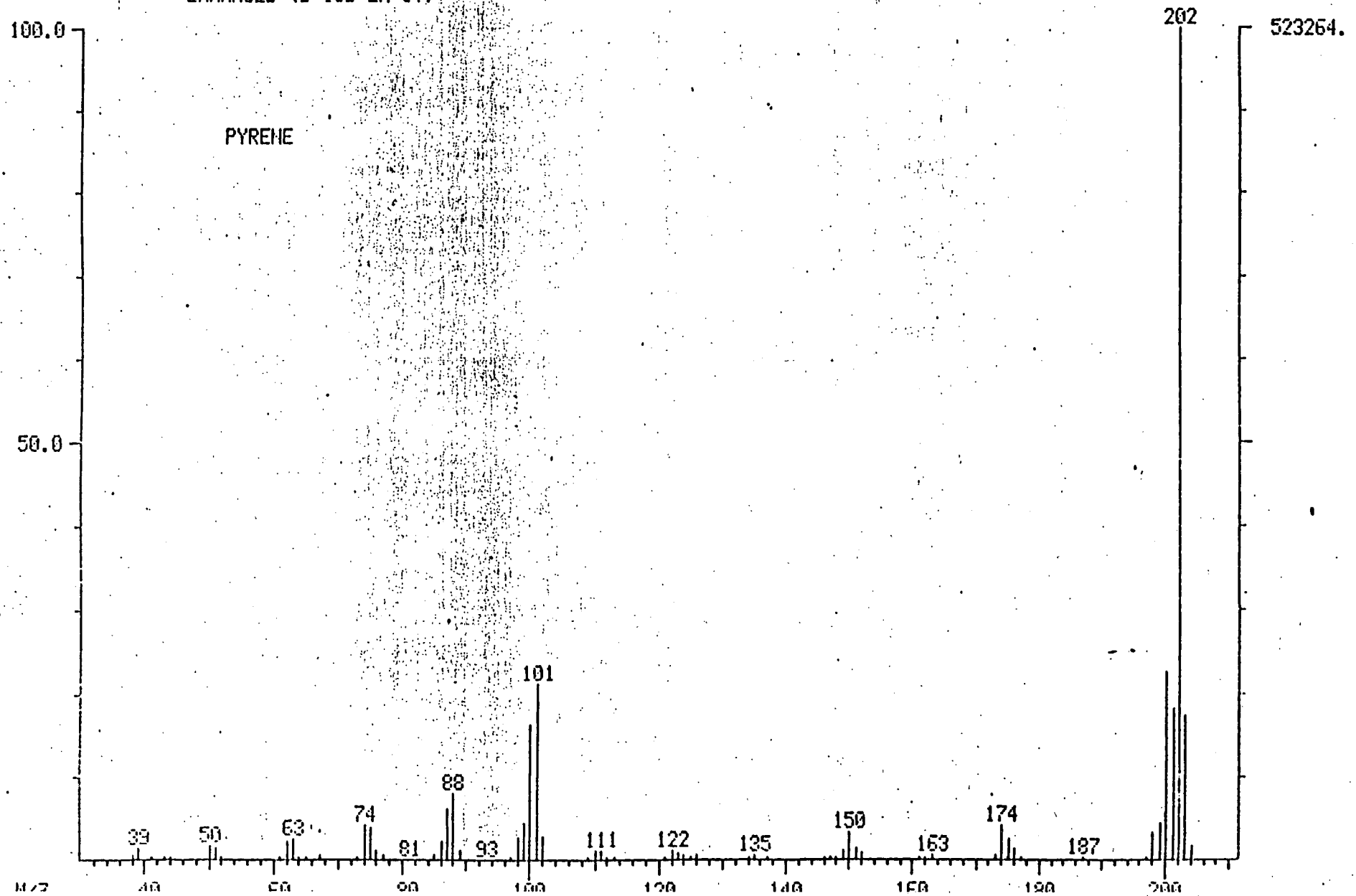


1547

MID MASS SPECTRUM
03/17/87 17:10:00 + 31:34
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 279 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1966
CALI: HSC50317 #2

BASE M/Z: 202
RIC: 1476600.

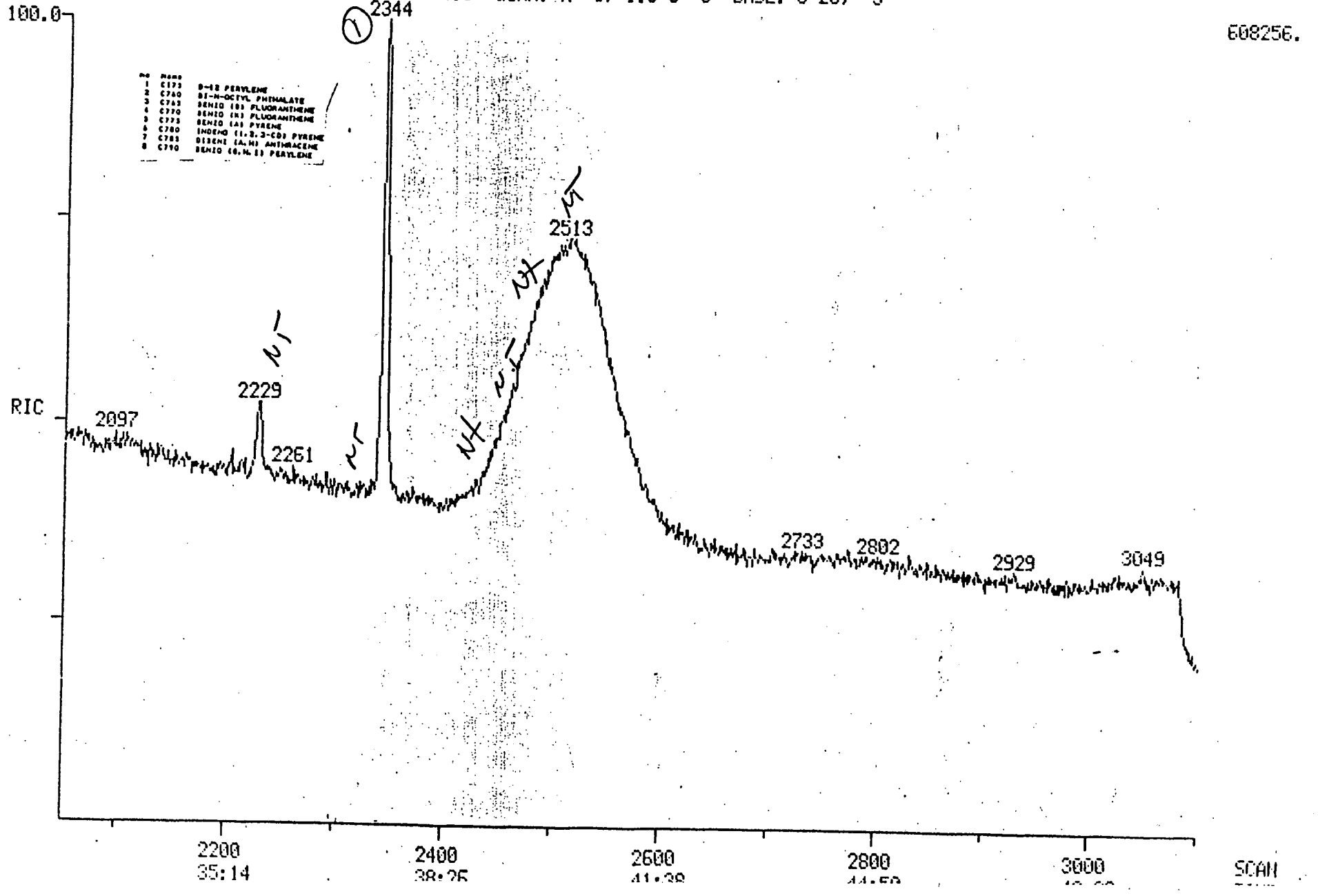


1548

MIDRIC
08/26/87 1:58:00
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
RANGE: G 1,3100 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558RN7 #1
CALI: 14558RN7 #2

SCANS 2050 TO 3100



1549

Quantitation Report File: 14558RN7

Data: 14558RN7.TI
08/26/87 1:58:00
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558RN7

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

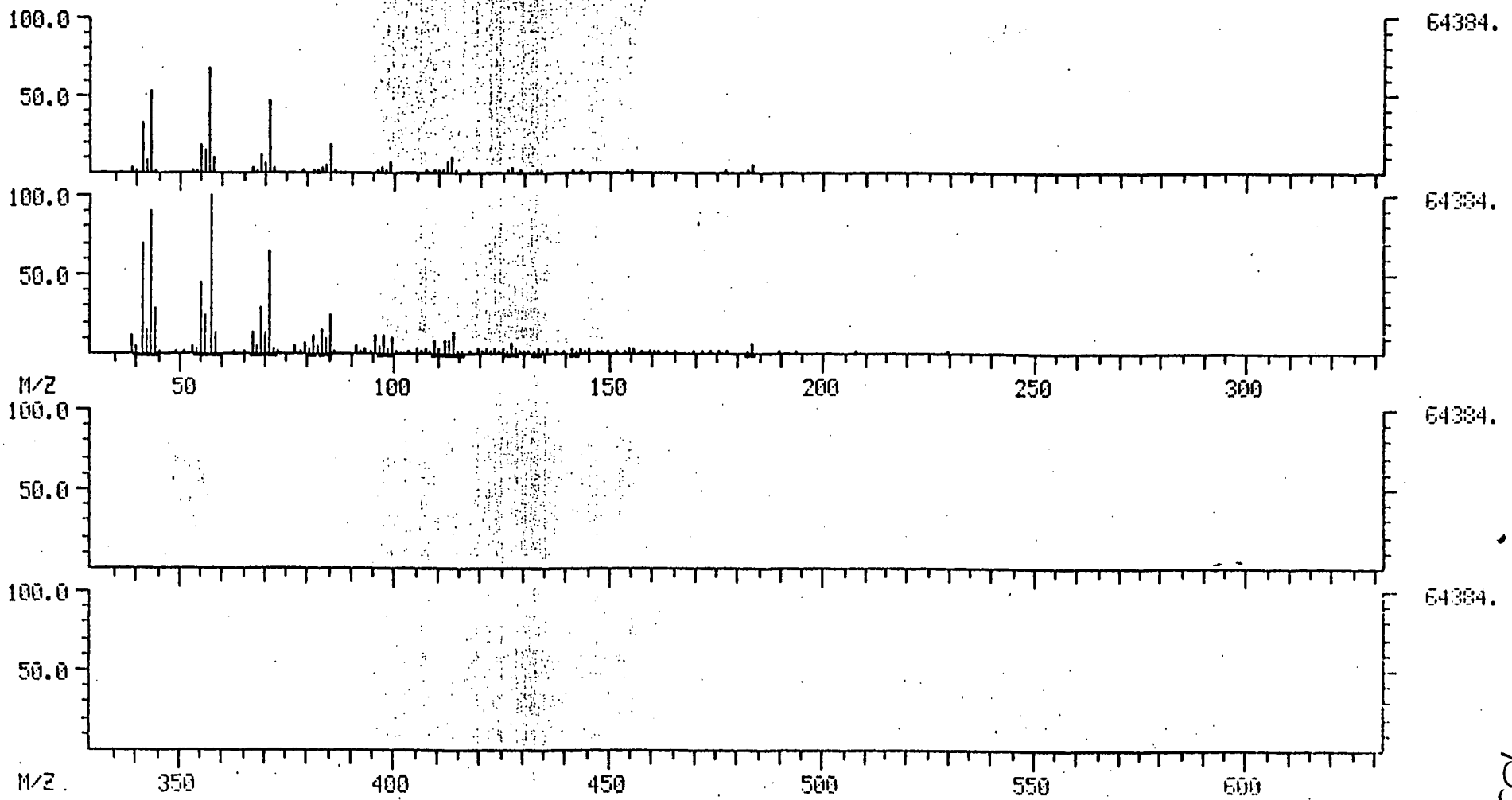
No	Name		
1	CI75	D-12 PERYLENE	(INT. STD.)
2	C760	DI-N-OCTYL PHTHALATE	*
3	C765	BENZO (B) FLUORANTHENE	
4	C770	BENZO (K) FLUORANTHENE	
5	C775	BENZO (A) PYRENE	*
6	C780	INDENO (1,2,3-CD) PYRENE	
7	C785	DIBENZ (A,H) ANTHRACENE	
8	C790	BENZO (G,H,I) PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	264	2344	37:32	1	1.000	A BB	642732.	40.000 NG	97.68
2	149	2147	34:23	1	0.916	A BB	~~4654.~~	~~0.051~~ NG	0.12
3	252	2231	35:44	1	0.952	A*BB	~~8896.~~	~~0.270~~ NG	0.66
4	NOT FOUND								
5	252	2325	37:14	1	0.992	A*BB	~~6400.~~	~~0.263~~ NG	0.64
6	276	2777	44:28	1	1.185	A VB	~~1760.~~	~~0.148~~ NG	0.36
7	278	2791	44:42	1	1.191	A*BB	~~672.~~	~~0.064~~ NG	0.16
8	276	2903	46:29	1	1.238	A BB	~~1696.~~	~~0.155~~ NG	0.38

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	37:33	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	34:27	1.00	0.917	1.00	0.05	50.00	0.006	5.718	0.00
3	35:48	1.00	0.953	1.00	0.27	50.00	0.011	2.053	0.01
4	35:53		0.956						
5	37:17	1.00	0.993	1.00	0.26	50.00	0.008	1.514	0.01
6	44:24	1.00	1.182	1.00	0.15	50.00	0.002	0.741	0.00
7	44:42	1.00	1.190	1.00	0.06	50.00	0.001	0.658	0.00
8	46:28	1.00	1.238	1.00	0.15	50.00	0.002	0.682	0.00

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 21:48
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 200 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #1361 BASE M/Z: 57/ 57
CALI: 14558RN7 #2 RIC: 254719./ 549887.

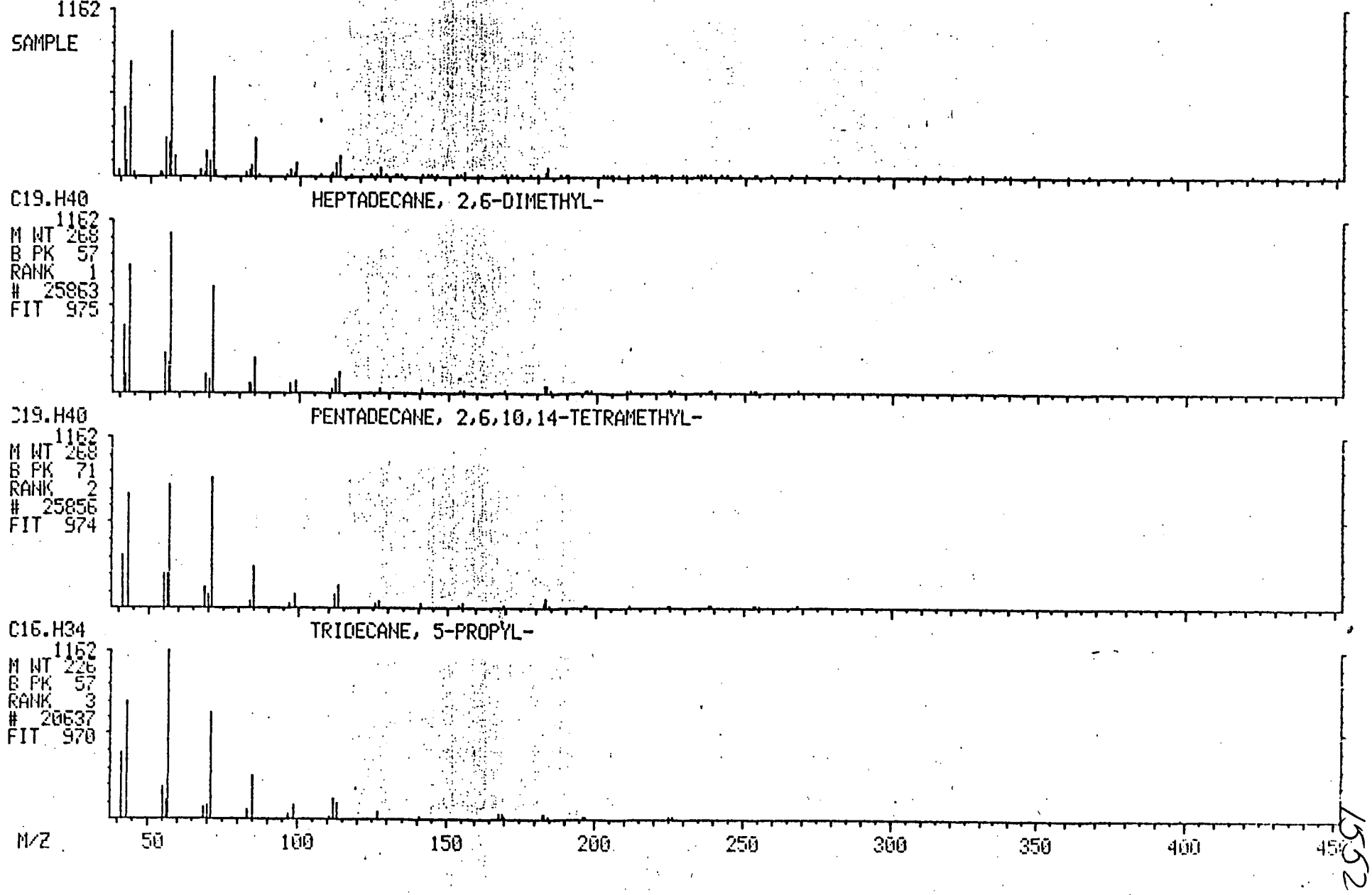


1551

MID LIBRARY SEARCH
08/26/87 1:58:00 + 21:48
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #1361
CALI: 14558RN7 # 2

BASE M/Z: 57
RIC: 246271.



1552

MID Library Search Data: 14558RN7 #1361 Base m/z: 57
08/26/87 1:58:00 + 21:48 Cali: 14558RN7 # 2 RIC: 246271.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	25863	HEPTADECANE, 2,6-DIMETHYL-
2	25856	PENTADECANE, 2,6,10,14-TETRAMETHYL-
3	20637	TRIDECANE, 5-PROPYL-
4	20633	DODECANE, 2-METHYL-8-PROPYL-
5	13915	DECANE, 2,6,7-TRIMETHYL-

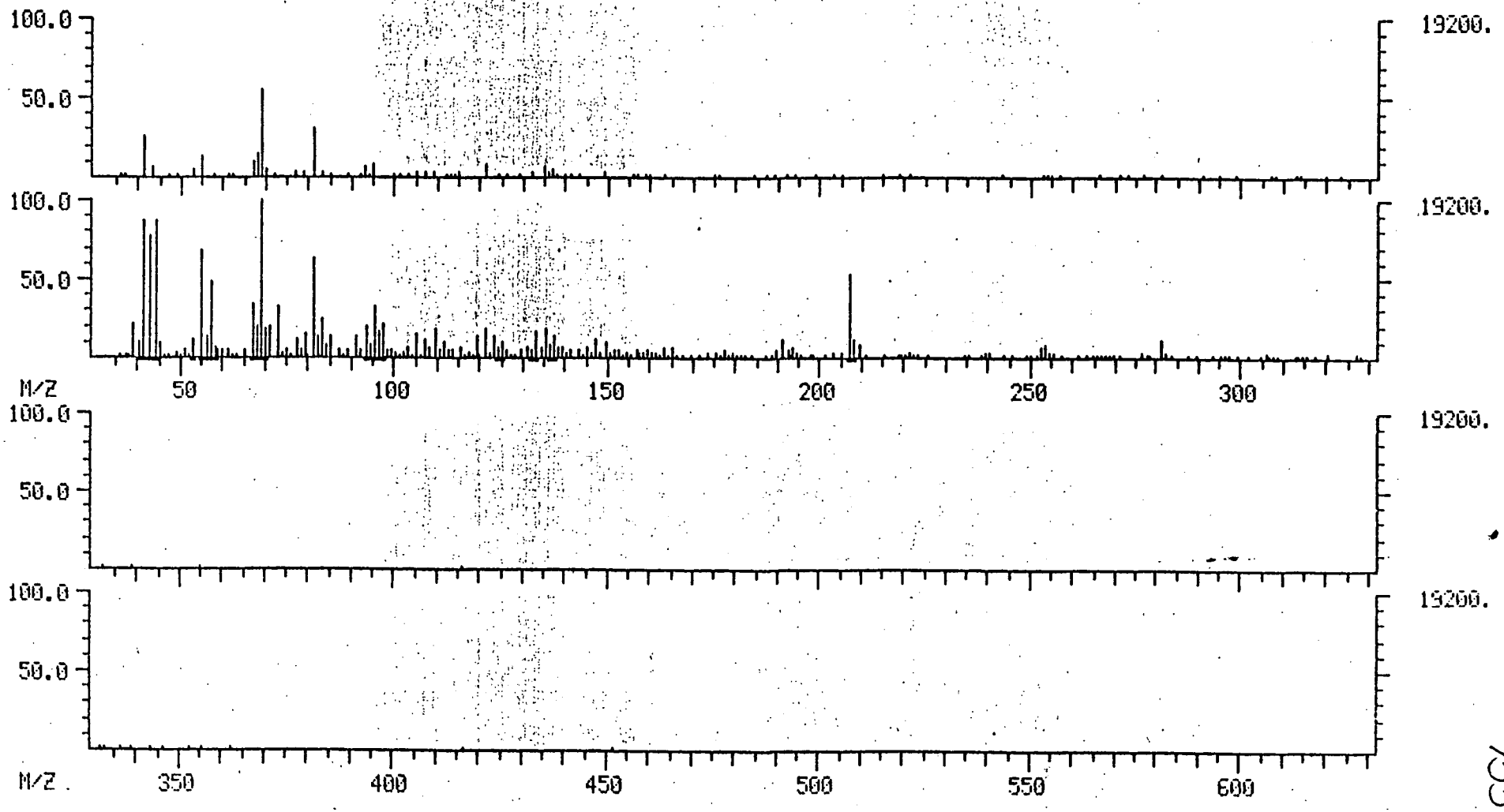
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H40	268	57	765	975	777
2	C19.H40	268	71	742	974	754
3	C16.H34	226	57	715	970	720
4	C16.H34	226	57	702	959	716
5	C13.H28	184	57	669	958	669

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	54105-67-8
2	___	___	___	___	1921-70-6
3	___	___	___	___	55045-11-9
4	___	___	___	___	55045-07-3
5	___	___	___	___	62108-25-2

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 35:42
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #2229
CALI: 14558RN7 #2

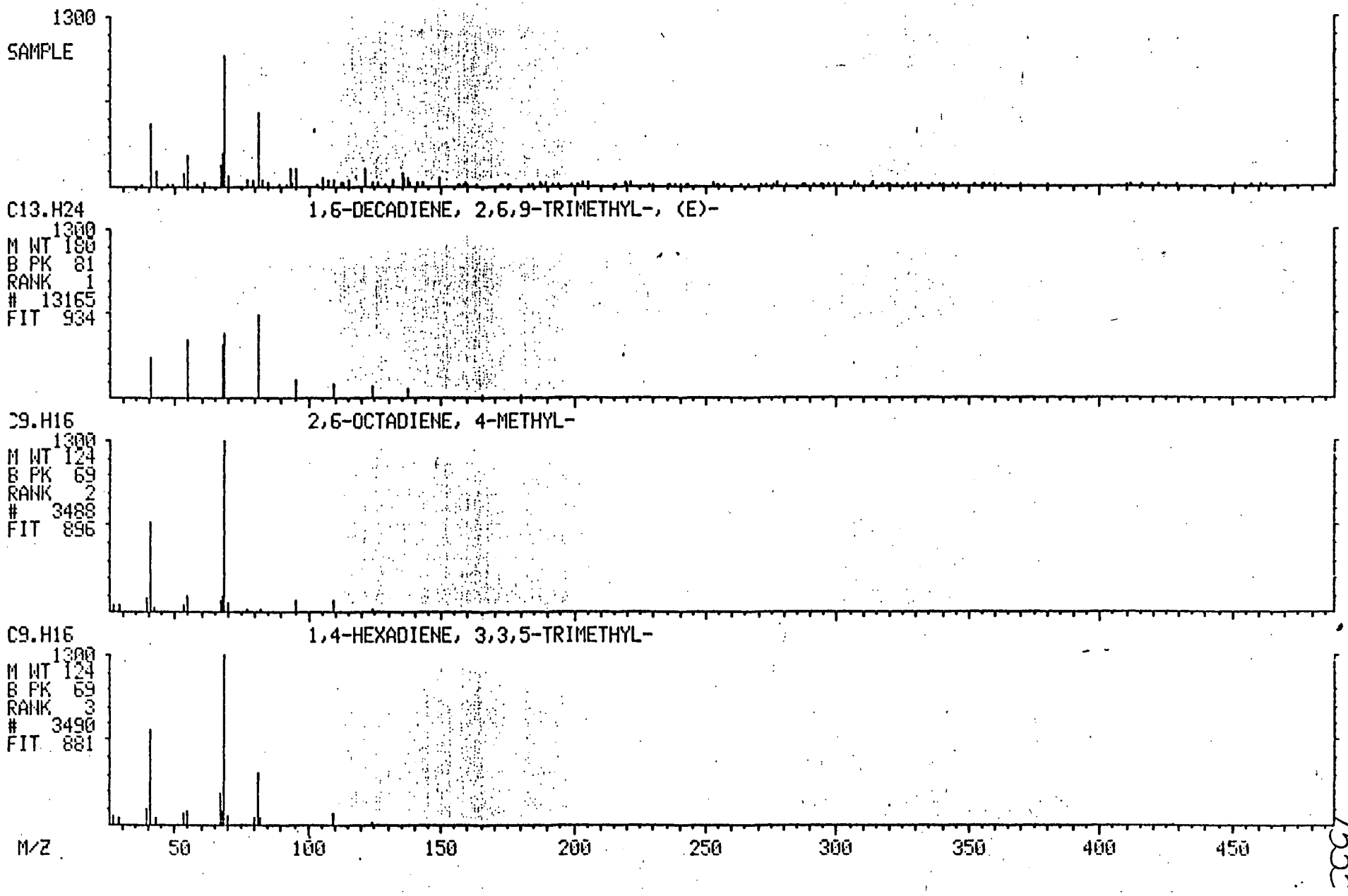
BASE M/Z: 69/ 69
RIC: 65663./ 321023.



MID LIBRARY SEARCH
08/26/87 1:58:00 + 35:42
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #2229
CALI: 14558RN7 # 2

BASE M/Z: 69
RIC: 63871.



MID Library Search Data: 14558RN7 #2229 Base m/z: 69
08/26/87 1:58:00 + 35:42 Cali: 14558RN7 # 2 RIC: 63871.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	13165	1,6-DECADIENE, 2,6,9-TRIMETHYL-, (E)-
2	3488	2,6-OCTADIENE, 4-METHYL-
3	3490	1,4-HEXADIENE, 3,3,5-TRIMETHYL-
4	21279	3,7,11-TRIDECATRIENENITRILE, 4,8,12-TRIMETHYL-
5	20281	5,10-PENTADECADIEN-1-OL, (Z,E)-

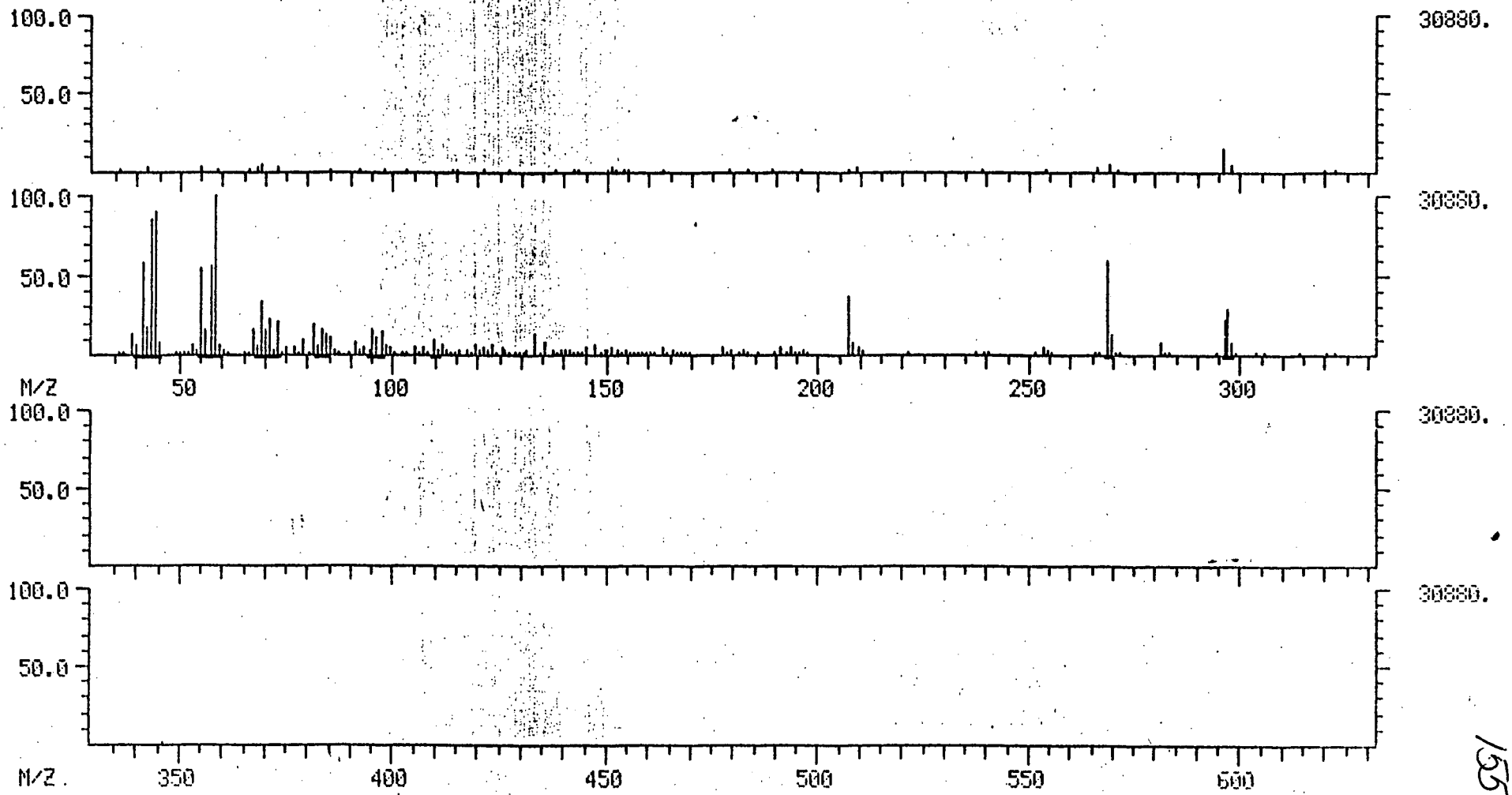
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H24	180	81	267	934	270
2	C9.H16	124	69	219	896	232
3	C9.H16	124	69	257	881	278
4	C16.H25.N	231	69	342	880	366
5	C15.H28.O	224	67	178	843	185

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	69690-72-8
2	___	___	___	___	74498-94-5
3	___	___	___	___	74753-00-7
4	___	___	___	___	6006-01-5
5	___	___	___	___	64275-60-1

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 39:48
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 289 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #2485
CALI: 14558RN7 #2

BASE M/Z: 296/ 58
RIC: 35327./ 403455.

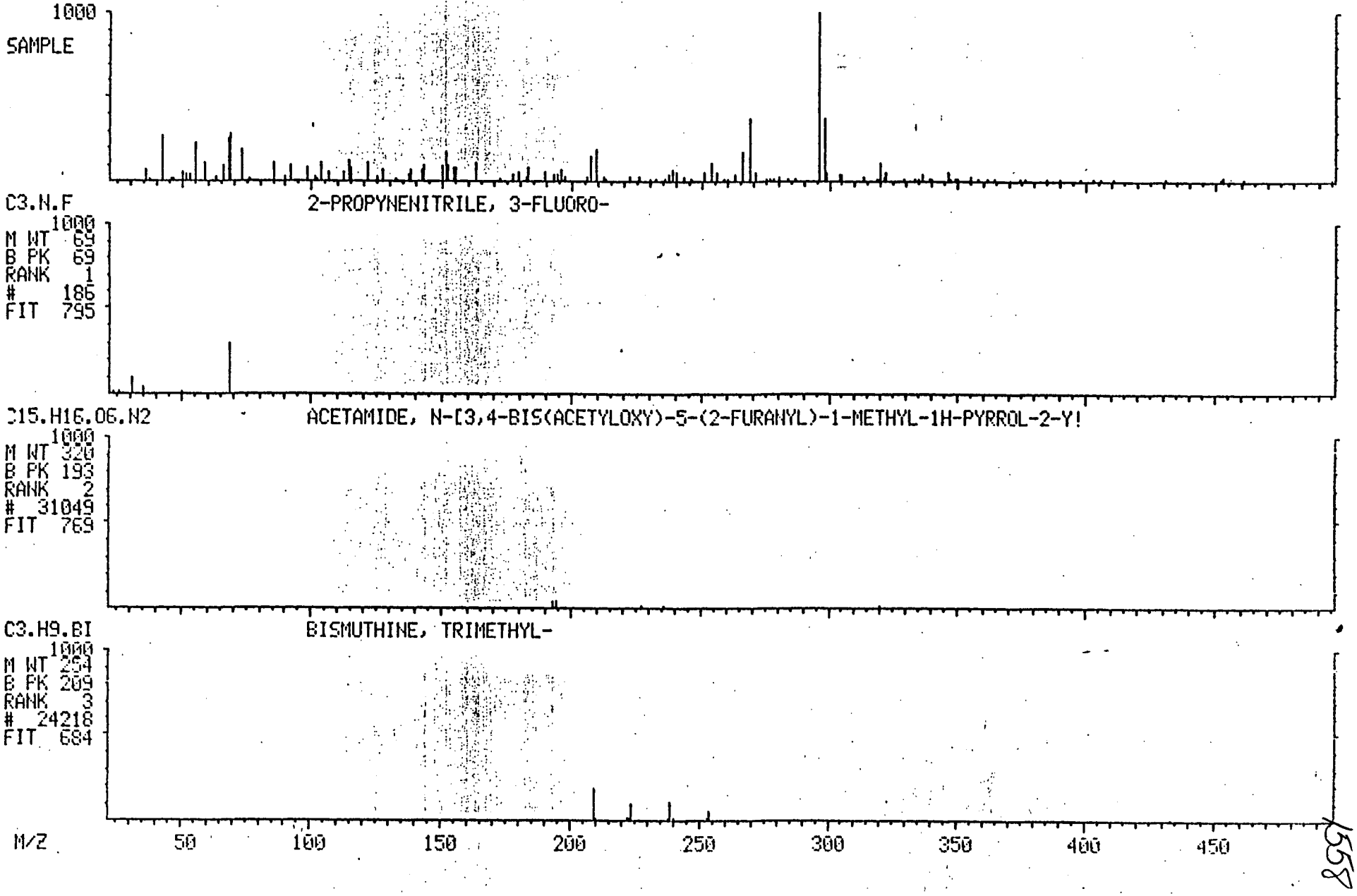


1557

MID LIBRARY SEARCH
08/26/87 1:58:00 + 39:48
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #2485
CALI: 14558RN7 # 2

BASE M/Z: 296
RIC: 34943.



MID Library Search Data: 14558RN7 #2485 Base m/z: 296
08/26/87 1:58:00 + 39:48 Cali: 14558RN7 # 2 RIC: 34943.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

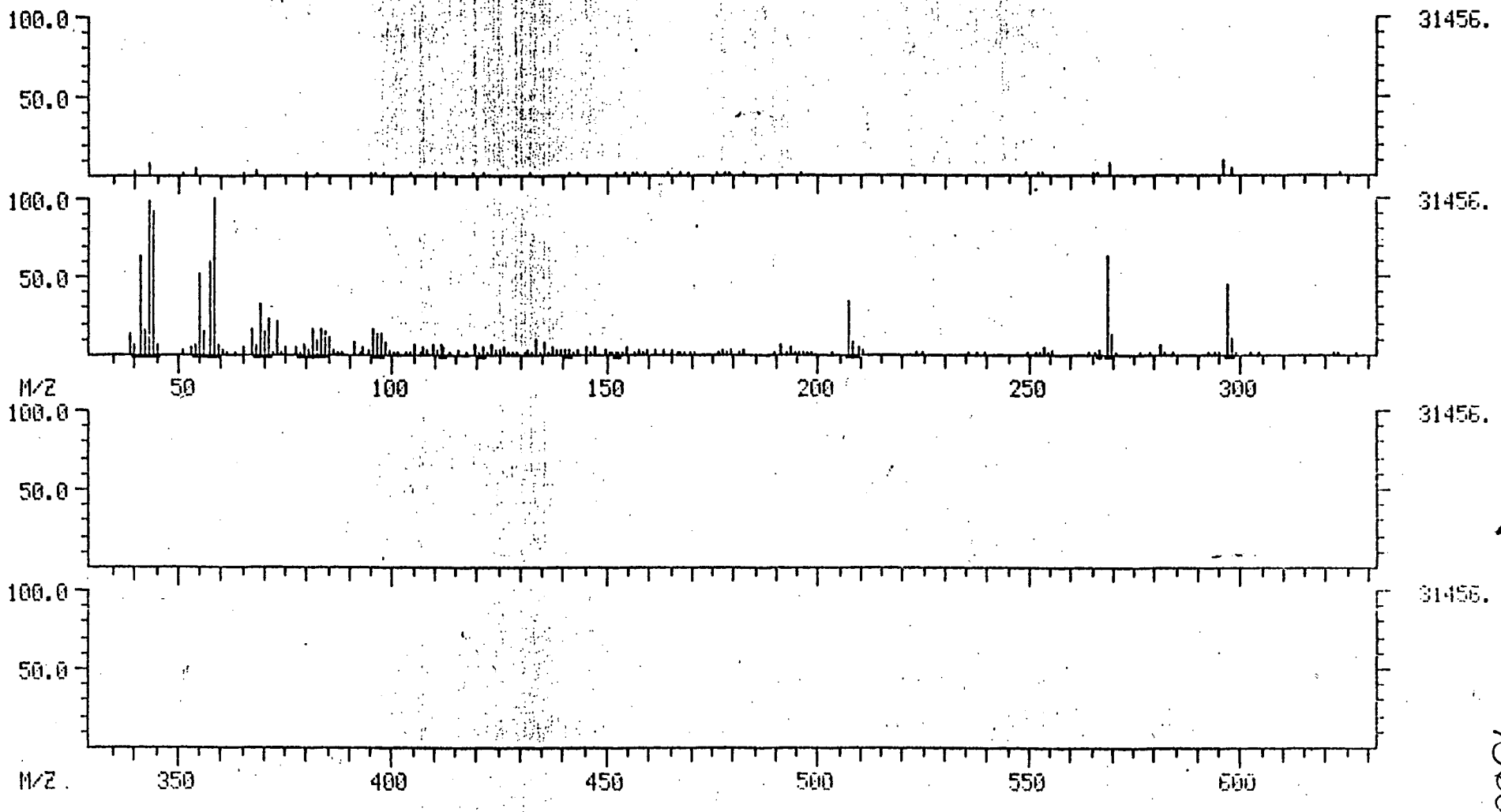
Rank	In.	Name
1	186	2-PROPYNENITRILE, 3-FLUORO-
2	31049	ACETAMIDE, N-[3,4-BIS(ACETYLOXY)-5-(2-FURANYL)-1-METHYL-1H-PYRROL-2*
3	24218	BISMUTHINE, TRIMETHYL-
4	24154	METHANONE, (6-METHYL-1,3-BENZODIOXOL-5-YL)(4-METHYLPHENYL)-
5	21423	4-PYRIMIDINOL, 2,6-BIS(TRIFLUOROMETHYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C3.N.F	69	69	12	795	14
2	C15.H16.O6.N2	320	193	26	769	28
3	C3.H9.BI	254	209	46	684	60
4	C16.H14.O3	254	239	33	677	46
5	C6.H2.O.N2.F6	232	69	38	628	51

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	32038-83-8
2	———	———	———	———	50618-96-7
3	———	———	———	———	593-91-9
4	———	———	———	———	52806-36-7
5	———	———	———	———	884-30-0

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 39:52
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #2489 BASE M/Z: 296/ 58
CALI: 14558RN7 #2 RIC: 35519./ 412159.

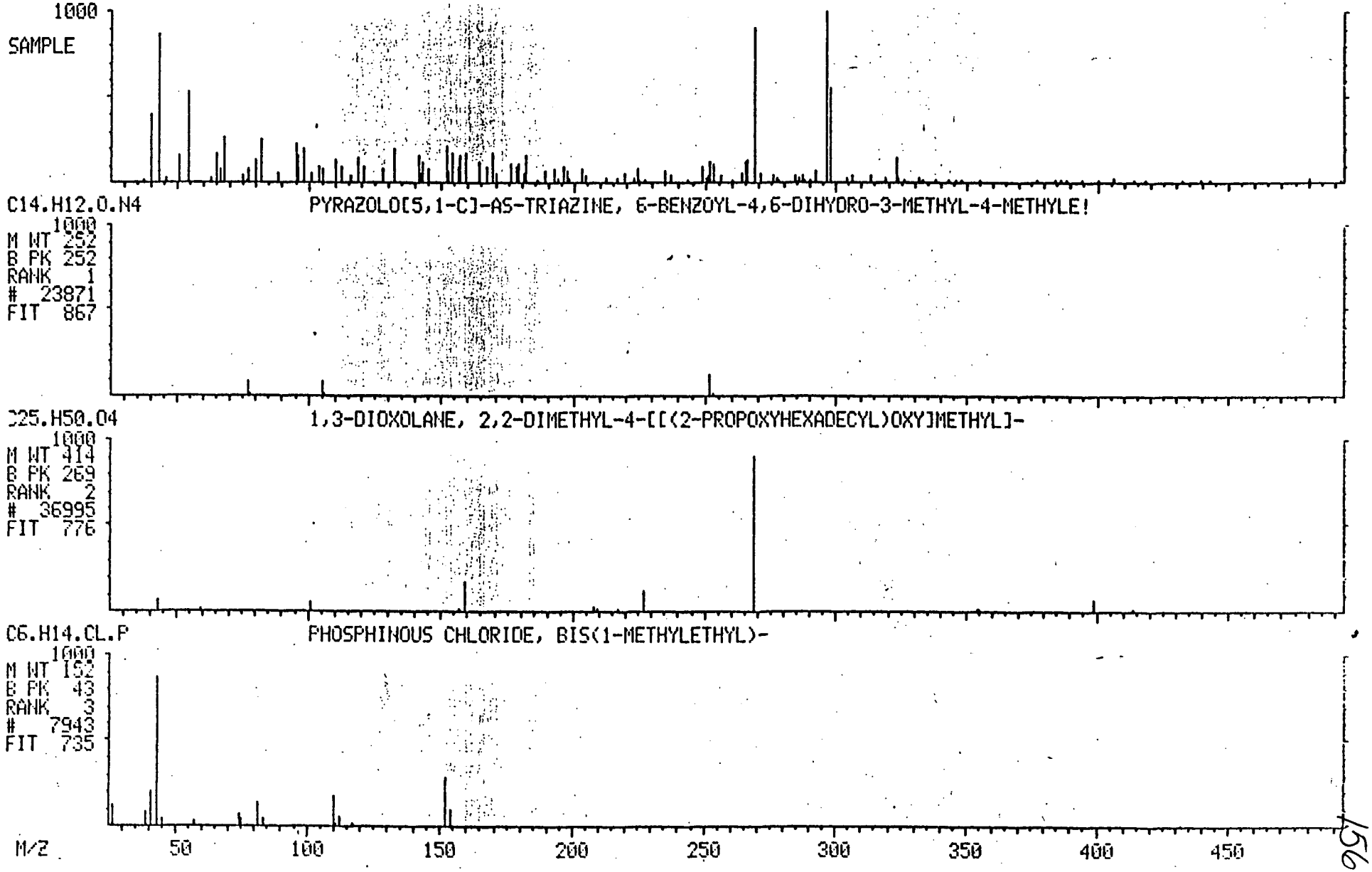


1560

MID LIBRARY SEARCH
08/26/87 1:58:00 + 39:52
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #2489
CALI: 14558RN7 # 2

BASE M/Z: 296
RIC: 34879.



1691

MID Library Search Data: 14558RN7 #2489 Base m/z: 296
08/26/87 1:58:00 + 39:52 Cali: 14558RN7 # 2 RIC: 34879.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	23871	PYRAZOLO[5,1-C]-AS-TRIAZINE, 6-BENZOYL-4,6-DIHYDRO-3-METHYL-4-METHY*
2	36995	1,3-DIOXOLANE, 2,2-DIMETHYL-4-[[(2-PROPOXYHEXADECYL)OXY]METHYL]-
3	7943	PHOSPHINOUS CHLORIDE, BIS(1-METHYLETHYL)-
4	13585	3-PENTEN-2-ONE, 5,5-DICHLORO-4-METHOXY-, (E)-
5	15327	1,4-BENZENEDIOL, DIACETATE

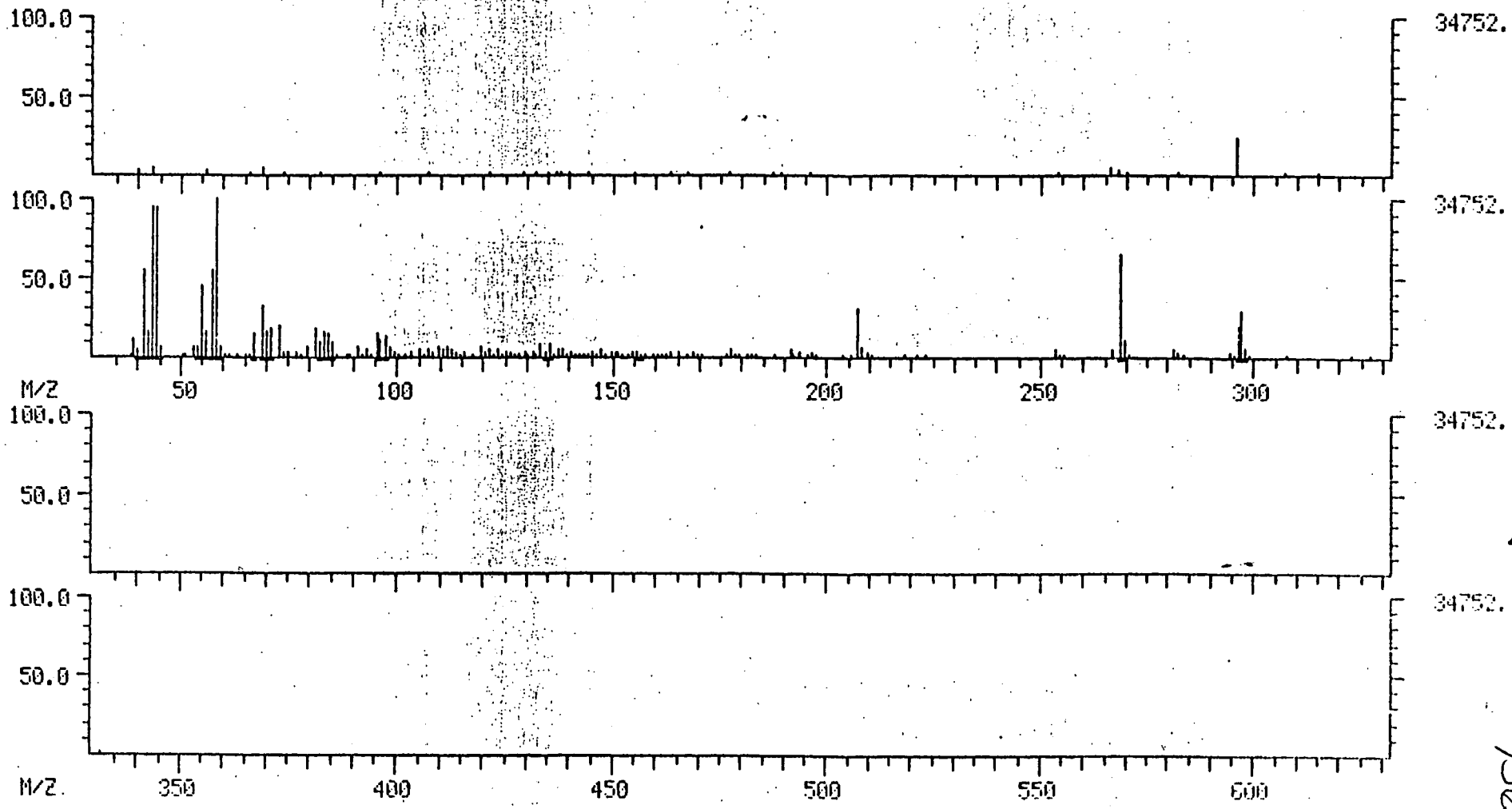
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H12.O.N4	252	252	29	867	30
2	C25.H50.O4	414	269	129	776	145
3	C6.H14.CL.P	152	43	44	735	58
4	C6.H8.O2.CL2	182	43	40	732	51
5	C10.H10.O4	194	152	50	694	54

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	———	———	———	———	6763-76-4
2	———	———	———	———	56256-28-1
3	———	———	———	———	40244-90-4
4	———	———	———	———	61203-75-6
5	———	———	———	———	1205-91-0

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 40:02
SAMPLE: 14558-7
CONDS.: 10.29 CMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #2500
CALI: 14558RH7 #2

BASE M/Z: 296/ 58
RIC: 36991./ 431103.

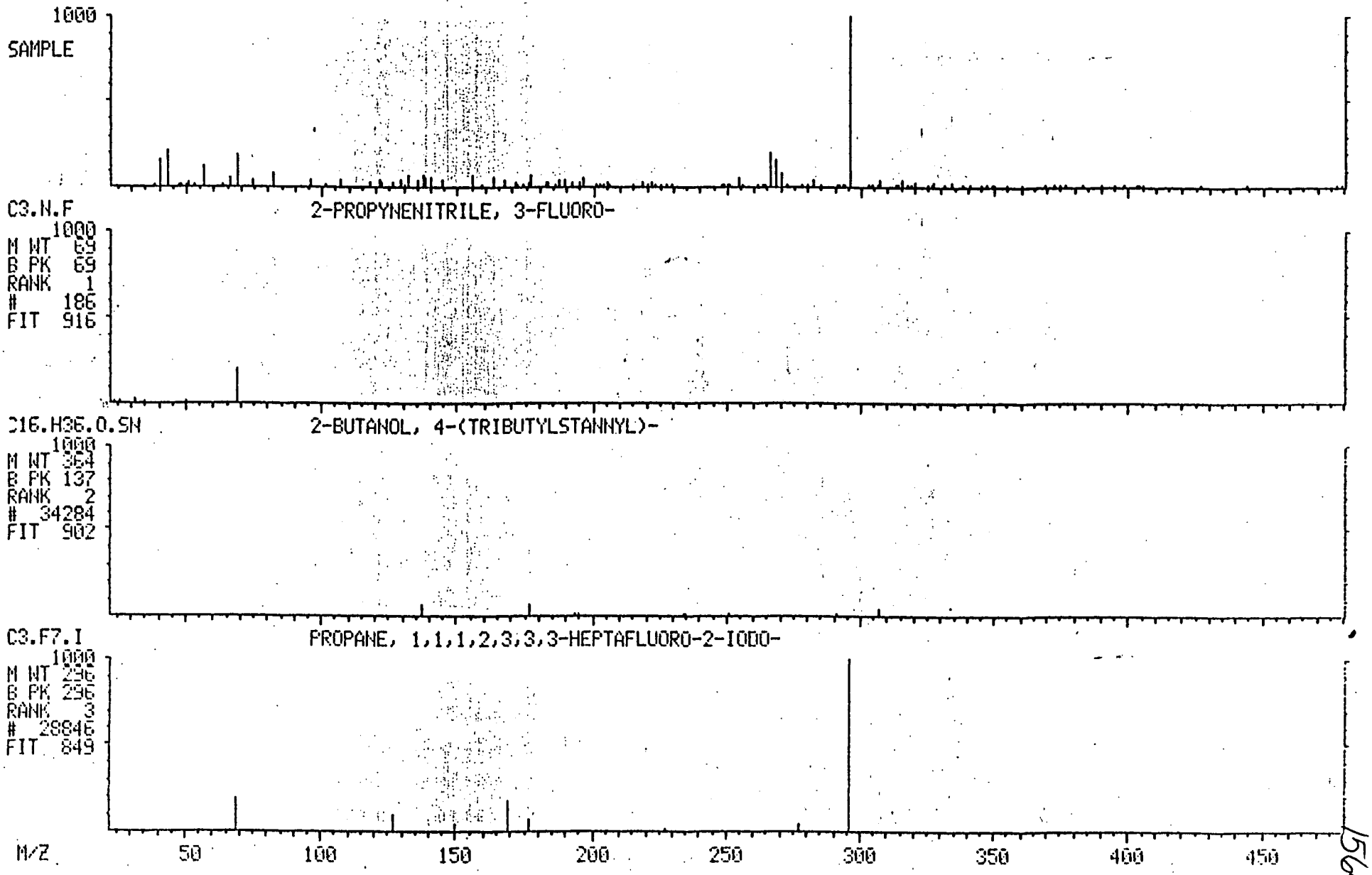


1563

MID LIBRARY SEARCH
08/26/87 1:58:00 + 40:02
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #2500
CALI: 14558RN7 # 2

BASE M/Z: 296
RIC: 36735.



1564

MID Library Search Data: 14558RN7 #2500 Base m/z: 296
08/26/87 1:58:00 + 40:02 Cali: 14558RN7 # 2 RIC: 36735.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

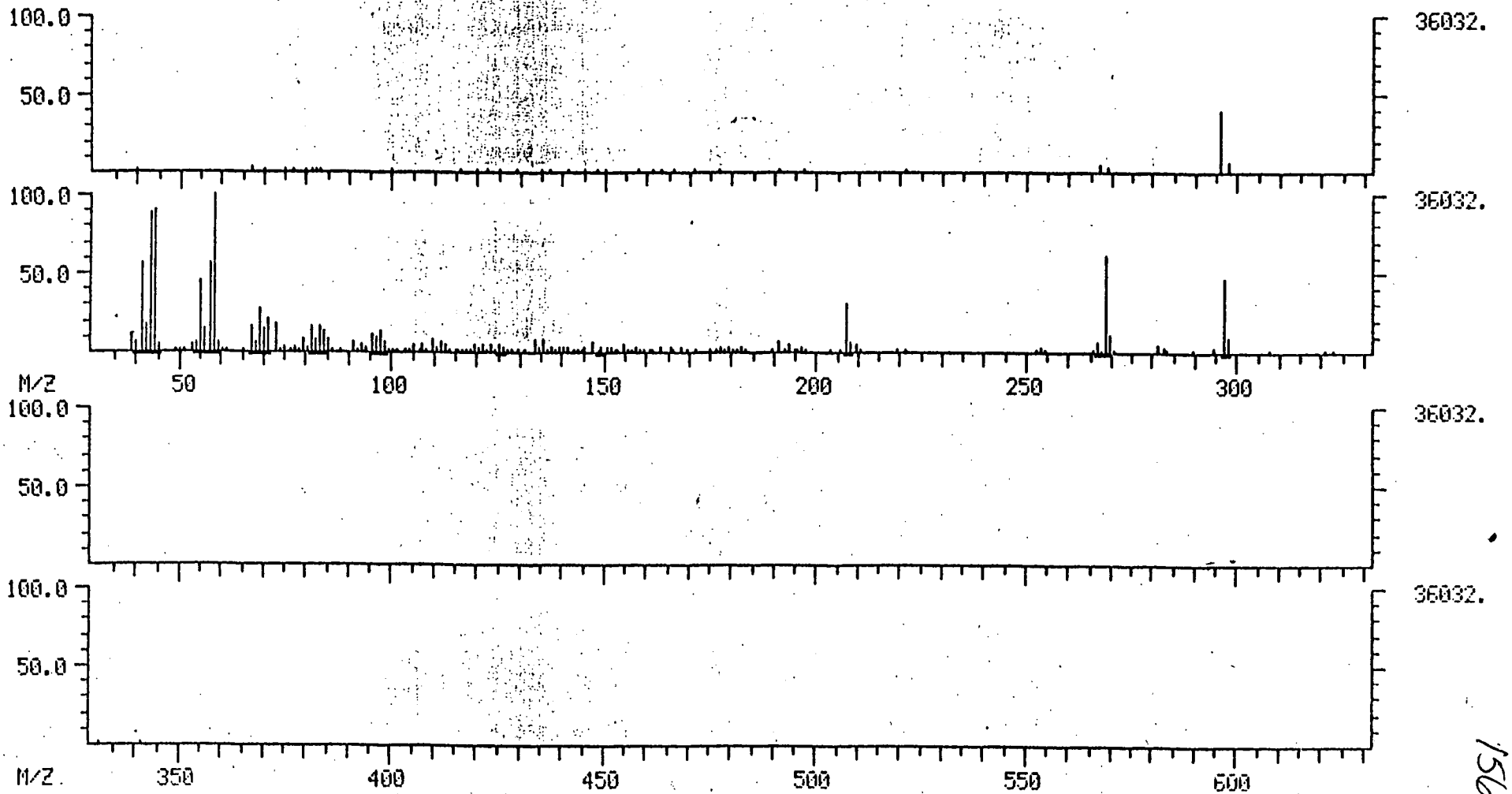
Rank	In.	Name
1	186	2-PROPYNENITRILE, 3-FLUORO-
2	34284	2-BUTANOL, 4-(TRIBUTYLSTANNYL)-
3	28846	PROPANE, 1,1,1,2,3,3,3-HEPTAFLUORO-2-IODO-
4	8624	PIPERIDINE, 1-(1-OXOBUTYL)-
5	34285	1-PROPANOL, 2-METHYL-3-(TRIBUTYLSTANNYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C3.N.F	69	69	15	916	16
2	C16.H36.O.SN	364	137	44	902	48
3	C3.F7.I	296	296	313	849	369
4	C9.H17.O.N	155	140	19	824	23
5	C16.H36.O.SN	364	177	40	817	45

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	32038-83-8
2	___	___	___	___	30988-55-7
3	___	___	___	___	677-69-0
4	___	___	___	___	4637-70-1
5	___	___	___	___	31123-79-2

MID DUAL MASS SPECTRUM
08/26/87 1:58:00 + 40:15
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
GC TEMP: 290 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #2513 BASE M/Z: 296/ 58
CALI: 14558RN7 #2 RIC: 44735./ 441343.

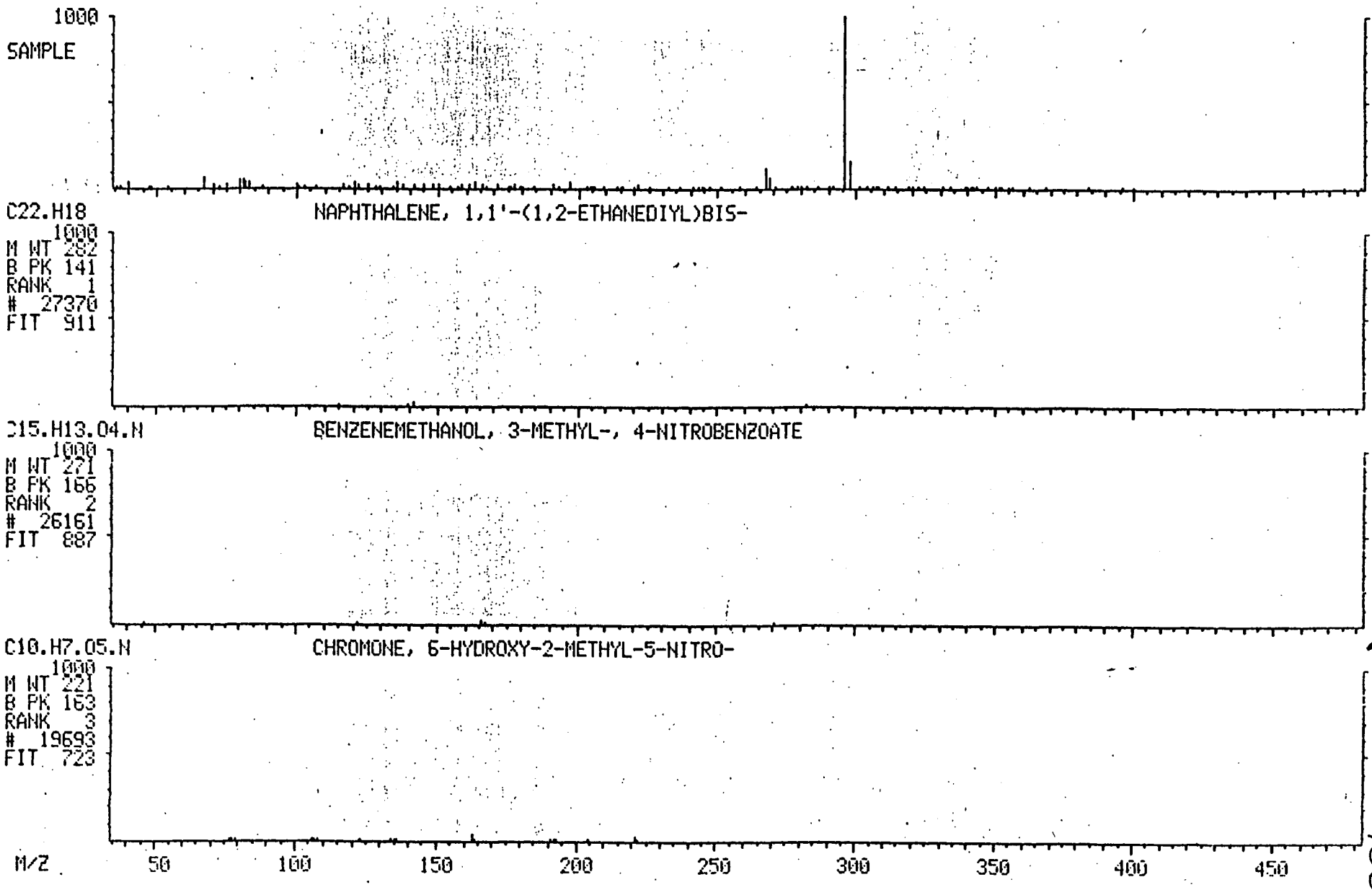


1516

MID LIBRARY SEARCH
08/26/87 1:58:00 + 40:15
SAMPLE: 14558-7
CONDS.: 10.29 GMS/1.0 ML,1:10 DILUTION,1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558RN7 #2513
CALI: 14558RN7 # 2

BASE M/Z: 296
RIC: 43775.



1567

MID Library Search Data: 14558RN7 #2513 Base m/z: 296
08/26/87 1:58:00 + 40:15 Cali: 14558RN7 # 2 RIC: 43775.
Sample: 14558-7
Conds.: 10.29 GMS/1.0 ML, 1:10 DILUTION, 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	27370	NAPHTHALENE, 1,1'-(1,2-ETHANEDIYL)BIS-
2	26161	BENZENEMETHANOL, 3-METHYL-, 4-NITROBENZOATE
3	19693	CHROMONE, 6-HYDROXY-2-METHYL-5-NITRO-
4	25668	NAPHTHALENE, 1-CHLORO-2,6-DIMETHOXY-5-NITRO-
5	26162	BENZENEMETHANOL, 4-METHYL-, 4-NITROBENZOATE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C22.H18	282	141	13	911	14
2	C15.H13.O4.N	271	166	19	887	19
3	C10.H7.O5.N	221	163	33	723	42
4	C12.H10.O4.N.CL	267	267	97	714	130
5	C15.H13.O4.N	271	166	15	709	15

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	———	———	———	———	15374-45-5
2	———	———	———	———	53218-08-9
3	———	———	———	———	30095-72-8
4	———	———	———	———	25314-98-1
5	———	———	———	———	53218-09-0

1659

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSA0811748

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-4

Sample wt/vol: 10.4 (g/mL) G Lab File ID: 14558N4R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 23 dec. _____ Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/25/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.333

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1300	U
111-44-4	bis(2-Chloroethyl)Ether	1300	U
95-57-8	2-Chlorophenol	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
100-51-6	Benzyl Alcohol	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
95-48-7	2-Methylphenol	1300	U
39638-32-9	bis(2-Chloroisopropyl)Ether	1300	U
106-44-5	4-Methylphenol	1300	U
621-64-7	N-Nitroso-Di-n-Propylamine	1300	U
67-72-1	Hexachloroethane	1300	U
98-95-3	Nitrobenzene	1300	U
78-59-1	Isophorone	1300	U
88-75-5	2-Nitrophenol	1300	U
105-67-9	2,4-Dimethylphenol	1300	U
65-85-0	Benzoic Acid	6200	U
111-91-1	bis(2-Chloroethoxy)Methane	1300	U
120-83-2	2,4-Dichlorophenol	1300	U
120-82-1	1,2,4-Trichlorobenzene	1300	U
91-20-3	Naphthalene	1300	U
106-47-8	4-Chloroaniline	1300	U
87-68-3	Hexachlorobutadiene	1300	U
59-50-7	4-Chloro-3-Methylphenol	1300	U
91-57-6	2-Methylnaphthalene	34000	
77-47-4	Hexachlorocyclopentadiene	1300	U
88-06-2	2,4,6-Trichlorophenol	1300	U
95-95-4	2,4,5-Trichlorophenol	6200	U
91-58-7	2-Chloronaphthalene	1300	U
88-74-4	2-Nitroaniline	6200	U
131-11-3	Dimethyl Phthalate	1300	U
208-96-8	Acenaphthylene	1300	U
606-20-2	2,6-Dinitrotoluene	1300	U

1660

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BSAC811742

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-4

Sample wt/vol: 10.4 (g/mL) G Lab File ID: 14558N4R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 23 dec. _____ Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/25/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.333

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	6200	U
83-32-9	Acenaphthene	1300	U
51-28-5	2,4-Dinitrophenol	6200	U
100-02-7	4-Nitrophenol	6200	U
132-64-9	Dibenzofuran	1300	U
121-14-2	2,4-Dinitrotoluene	1300	U
84-66-2	Diethylphthalate	1300	U
7005-72-3	4-Chlorophenyl-phenylether	1300	U
86-73-7	Fluorene	1300	U
100-10-6	4-Nitroaniline	6200	U
534-52-1	4,6-Dinitro-2-Methylphenol	6200	U
86-30-6	N-Nitrosodiphenylamine (1)	1300	U
101-55-3	4-Bromophenyl-phenylether	1300	U
118-74-1	Hexachlorobenzene	1300	U
87-86-5	Pentachlorophenol	6200	U
85-01-8	Phenanthrene	10000	
120-12-7	Anthracene	1300	U
84-74-2	Di-n-Butylphthalate	1300	U
206-44-0	Fluoranthene	1300	U
129-00-0	Pyrene	3400	
85-68-7	Butylbenzylphthalate	1300	U
91-94-1	3,3'-Dichlorobenzidine	2600	U
56-55-3	Benzo(a)Anthracene	1300	U
218-01-9	Chrysene	980	J
117-81-7	bis(2-Ethylhexyl)Phthalate	1300	U
117-84-0	Di-n-Octyl Phthalate	1300	U
205-99-2	Benzo(b)Fluoranthene	960	J
207-08-9	Benzo(k)Fluoranthene	1300	U
50-32-8	Benzo(a)Pyrene	1300	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1300	U
53-70-3	Dibenz(a,h)Anthracene	1300	U
191-24-2	Benzo(g,h,i)Perylene	1300	U

(1) - Cannot be separated from Diphenylamine

1661

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

BSA0811748

Lab Name: ANALYTIKEM Contract: _____

Lab Code: _____ Case No.: 14558 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 14558-4

Sample wt/vol: 10.4 (g/mL) G Lab File ID: 14558N4R

Level: (low/med) LOW Date Received: 08/11/87

% Moisture: not dec. 23 dec. ____ Date Extracted: 08/24/87

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 08/25/87

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 0.333

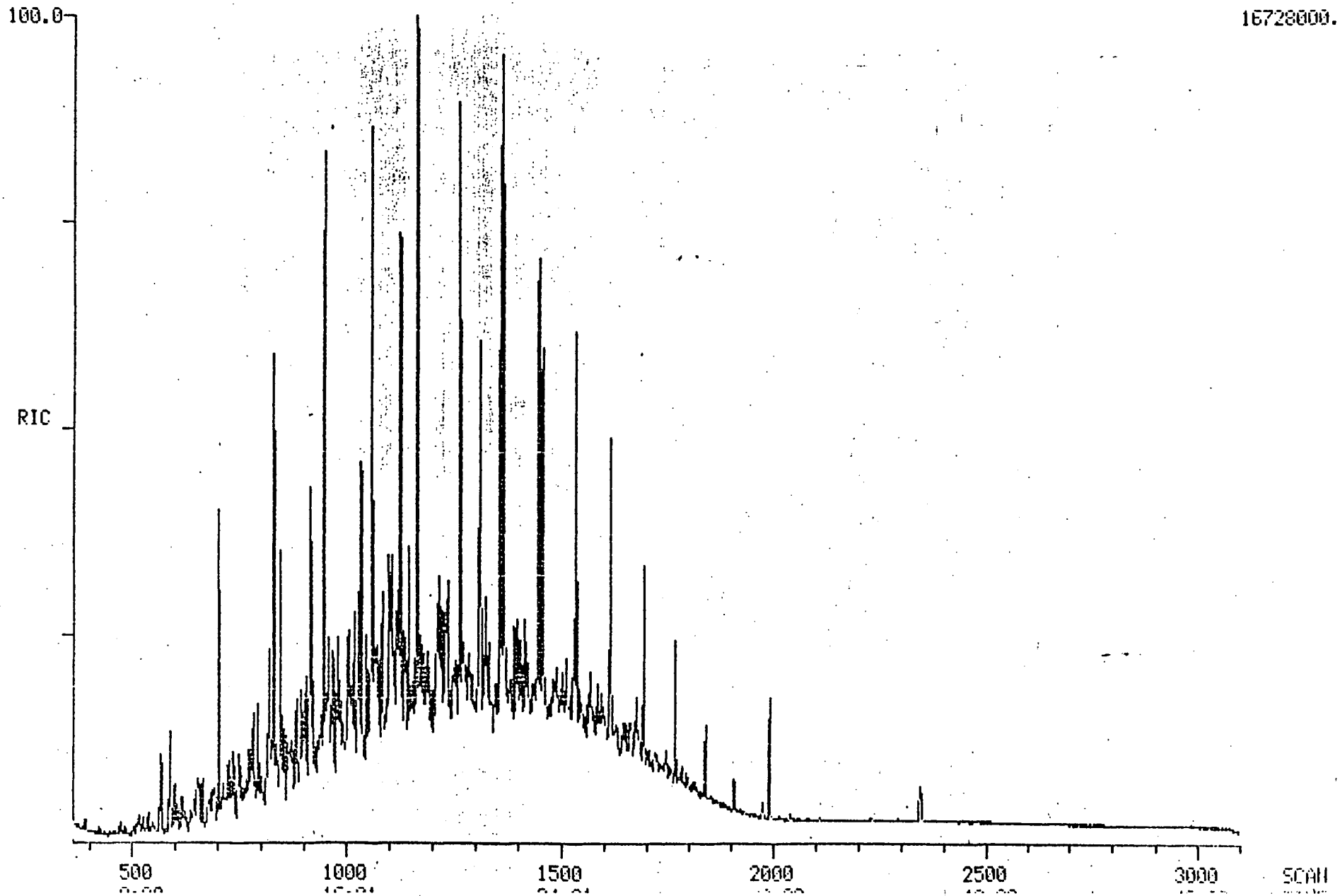
Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

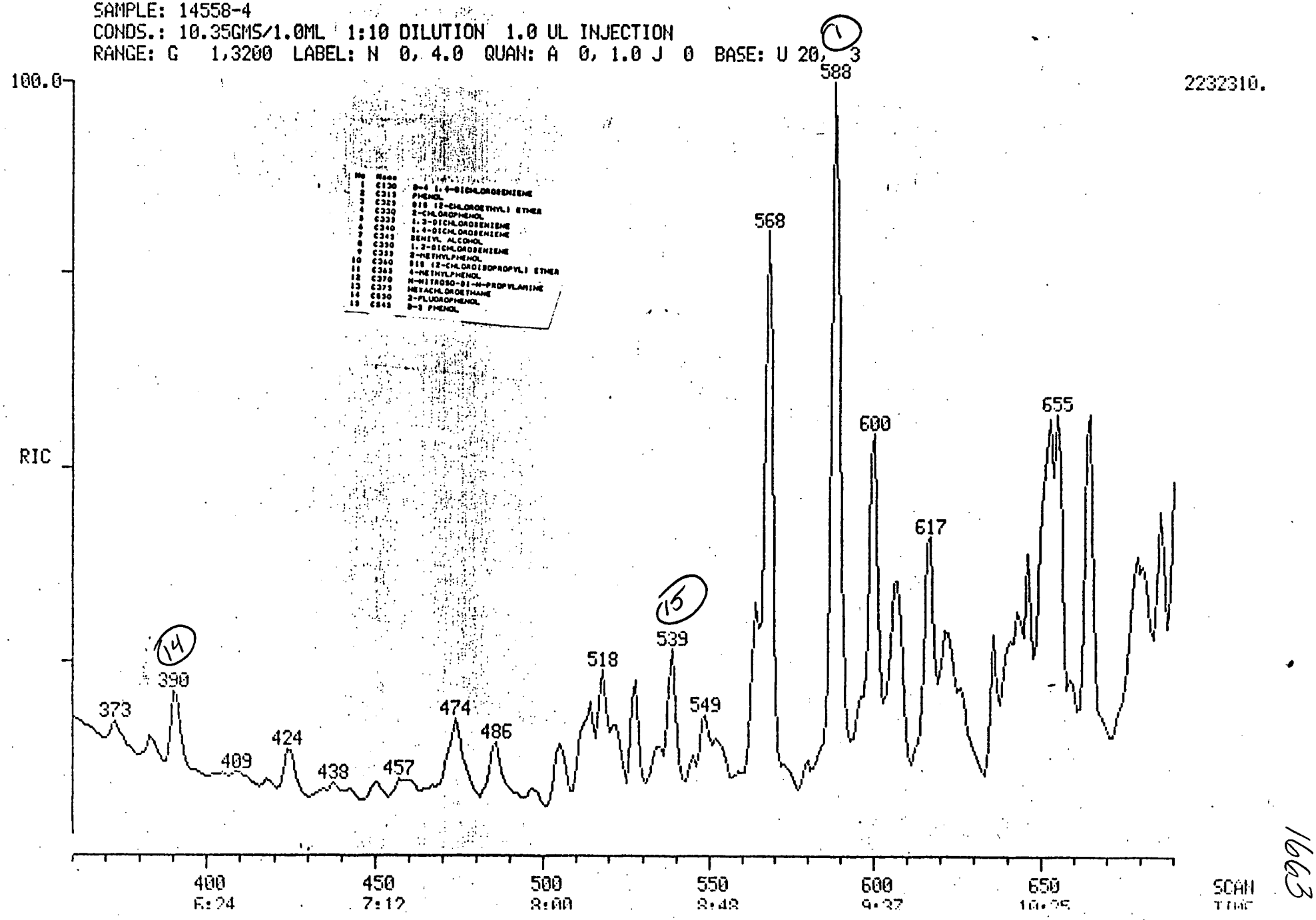
MIDRIC
08/25/87 22:19:00
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558N4R #1
CALI: 14558N4R #2

SCANS 360 TO 3100



1662


MIDRIC
08/25/87 22:19:00
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558N4R #1
CALI: 14558N4R #2
SCANS 360 TO 690
100.0
2232310.
RIC
588
568
655
600
617
539
518
549
474
390
373
486
424
409
438
457
400
450
500
550
600
650
SCAN

1664

Quantitation Report File: 14558N4R

Data: 14558N4R.TI
08/25/87 22:19:00
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558N4R

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

No	Name		
1	CI30	D-4 1,4-DICHLOROBENZENE	(INT. STD.)
2	C315	PHENOL	*
3	C325	BIS (2-CHLOROETHYL) ETHER	
4	C330	2-CHLOROPHENOL	
5	C335	1,3-DICHLOROBENZENE	
6	C340	1,4-DICHLOROBENZENE	*
7	C345	BENZYL ALCOHOL	
8	C350	1,2-DICHLOROBENZENE	
9	C355	2-METHYLPHENOL	
10	C360	BIS (2-CHLOROISOPROPYL) ETHER	
11	C365	4-METHYLPHENOL	
12	C370	N-NITROSO-DI-N-PROPYLAMINE	**
13	C375	HEXACHLOROETHANE	
14	CS50	2-FLUOROPHENOL	(SURROGATE)
15	CS45	D-5 PHENOL	(SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	152	588	9:25	1	1.000	A BB	564488.	40.000 NG	64.42	
2	NOT FOUND									
3	93	545	8:44	1	0.927	A BB	~~2147.~~	~~0.103 NG~~	~~0.17~~	NO QQV
4	128	547	8:46	1	0.930	A BB	~~576.~~	~~0.029 NG~~	~~0.05~~	NO QQV
5	NOT FOUND									
6	146	588	9:25	1	1.000	A BB	~~800.~~	~~0.037 NG~~	~~0.06~~	NO QQV
7	108	619	9:55	1	1.053	A*BV	~~5781.~~	~~0.466 NG~~	~~0.75~~	NO QQV
8	146	621	9:57	1	1.056	A BB	~~224.~~	~~0.011 NG~~	~~0.02~~	NO QQV
9	108	648	10:23	1	1.102	A BB	~~2464.~~	~~0.141 NG~~	~~0.23~~	NO QQV
10	45	650	10:25	1	1.105	A BV	~~3299.~~	~~0.070 NG~~	~~0.11~~	NO QQV
11	108	671	10:45	1	1.141	A BB	~~4704.~~	~~0.251 NG~~	~~0.40~~	NO QQV
12	70	677	10:51	1	1.151	A BV	~~42888.~~	~~1.690 NG~~	~~2.72~~	NO QQV
13	NOT FOUND									
14	112	390	6:15	1	0.663	A BB	149262.	9.109 NG	14.67	YES QQV
15	99	539	8:38	1	0.917	A BV	223381.	10.189 NG	16.41	YES QQV

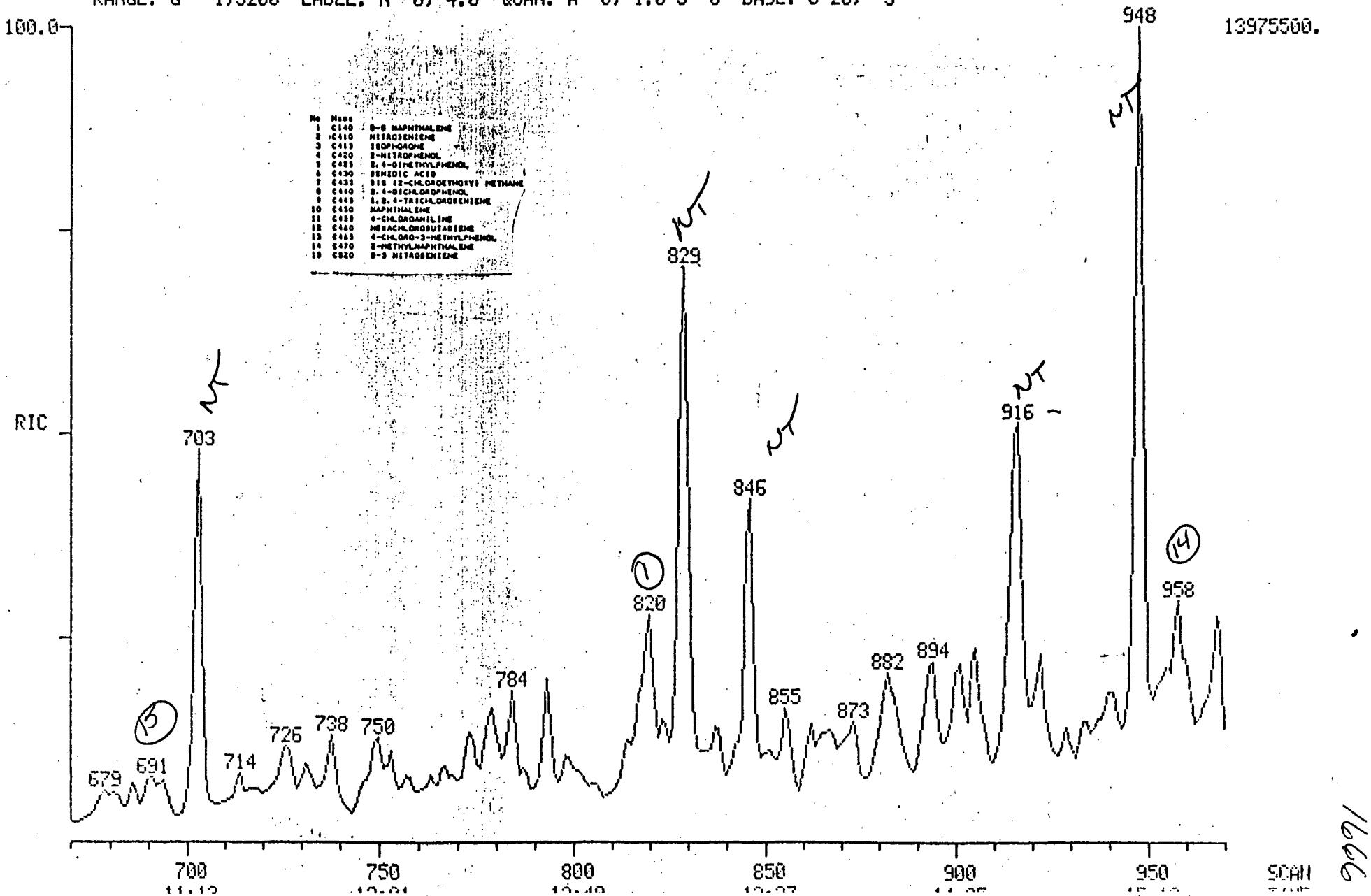
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:25	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:40		0.920						
3	8:50	0.99	0.939	0.99	0.10	50.00	0.003	1.677	0.00
4	8:56	0.98	0.949	0.98	0.03	50.00	0.001	1.420	0.00
5	9:19		0.990						
6	9:28	0.99	1.005	0.99	0.04	50.00	0.001	1.537	0.00
7	9:54	1.00	1.051	1.00	0.47	50.00	0.008	0.910	0.01
8	9:59	1.00	1.060	1.00	0.01	50.00	0.000	1.511	0.00
9	10:18	1.01	1.094	1.01	0.14	50.00	0.003	1.238	0.00

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	10:22	1.00	1.100	1.00	0.07	50.00	0.005	3.341	0.00
11	10:43	1.00	1.138	1.00	0.25	50.00	0.007	1.327	0.01
12	10:45	1.01	1.141	1.01	1.69	50.00	0.061	1.798	0.03
13	10:51		1.151						
14	6:15	1.00	0.663	1.00	9.11	50.00	0.212	1.161	0.18
15	8:38	1.00	0.917	1.00	10.19	50.00	0.317	1.554	0.20

MIDRIC
08/25/87 22:19:00
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558N4R #1
CALI: 14558N4R #2

SCANS 670 TO 970



1667

Quantitation Report File: 14558N4R

Data: 14558N4R.TI
08/25/87 22:19:00
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558N4R

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

No	Name		
1	CI40	D-8 NAPHTHALENE	(INT. STD.)
2	C410	NITROBENZENE	
3	C415	ISOPHORONE	
4	C420	2-NITROPHENOL	*
5	C425	2,4-DIMETHYLPHENOL	
6	C430	BENZOIC ACID	
7	C435	BIS (2-CHLOROETHOXY) METHANE	
8	C440	2,4-DICHLOROPHENOL	*
9	C445	1,2,4-TRICHLOROBENZENE	
10	C450	NAPHTHALENE	
11	C455	4-CHLOROANILINE	
12	C460	HEXACHLOROBUTADIENE	*
13	C465	4-CHLORO-3-METHYLPHENOL	*
14	C470	2-METHYLNAPHTHALENE	
15	CS20	D-5 NITROBENZENE	(SURROGATE)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	136	820	13:08	1	1.000	A BV	2323900.	40.000 NG	45.44	
2	77	699	11:12	1	0.852	A BB	~~19118.~~	~~0.534 NG~~	~~0.61~~	No QQQ
3	NOT FOUND									
4	139	758	12:08	1	0.924	A BV	~~9775.~~	~~0.991 NG~~	~~1.13~~	No QQQ
5	122	767	12:17	1	0.935	A*VB	~~7209.~~	~~0.425 NG~~	~~0.48~~	
6	122	787	12:36	1	0.960	A VB	~~14216.~~	~~1.228 NG~~	~~1.29~~	No QQQ
7	93	780	12:29	1	0.951	A BB	~~30042.~~	~~0.903 NG~~	~~1.03~~	No QQQ
8	162	803	12:52	1	0.979	A BB	~~16672.~~	~~0.898 NG~~	~~1.02~~	No QQQ
9	180	812	13:00	1	0.990	A VV	~~8997.~~	~~0.464 NG~~	~~0.53~~	No QQQ
10	128	823	13:11	1	1.004	A VV	~~370300.~~	~~6.230 NG~~	~~7.10~~	No QQQ
11	127	838	13:25	1	1.022	A*BB	~~32842.~~	~~1.281 NG~~	~~1.45~~	No QQQ
12	NOT FOUND									
13	107	942	15:05	1	1.149	A BV	~~60946.~~	~~2.399 NG~~	~~2.61~~	No QQQ
14	142	958	15:21	1	1.168	A VB	1074060.	27.016 NG	30.69	Yes QQQ
15	82	691	11:04	1	0.843	A*VV	181984.	5.742 NG	6.52	Yes QQQ

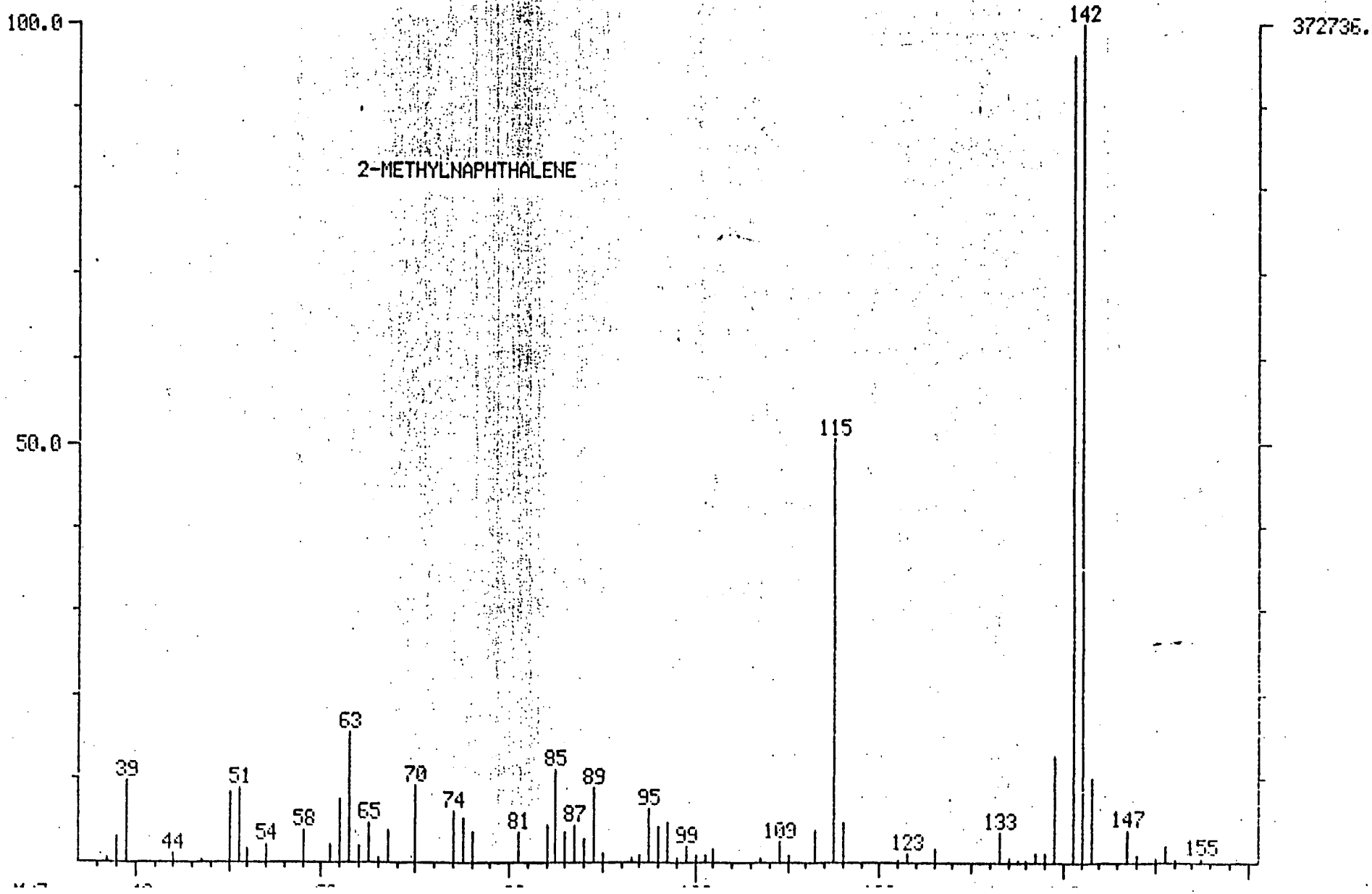
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	13:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	11:08	1.01	0.848	1.01	0.53	50.00	0.006	0.585	0.01
3	11:48		0.899						
4	12:05	1.01	0.920	1.01	0.99	50.00	0.003	0.170	0.02
5	12:16	1.00	0.934	1.00	0.42	50.00	0.002	0.292	0.01
6	12:36	1.00	0.960	1.00	1.23	50.00	0.005	0.208	0.02
7	12:33	0.99	0.956	0.99	0.90	50.00	0.010	0.573	0.02
8	12:46	1.01	0.972	1.01	0.90	50.00	0.006	0.320	0.02
9	13:01	1.00	0.991	1.00	0.46	50.00	0.003	0.333	0.01

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
10	13:11	1.00	1.004	1.00	6.25	50.00	0.128	1.020	0.13
11	13:27	1.00	1.024	1.00	1.28	50.00	0.011	0.441	0.03
12	13:47		1.050						
13	15:01	1.00	1.144	1.00	2.30	50.00	0.021	0.455	0.05
14	15:20	1.00	1.167	1.00	27.02	50.00	0.370	0.684	0.54
15	11:04	1.00	0.843	1.00	5.74	50.00	0.063	0.546	0.11

MID MASS SPECTRUM
08/25/87 22:19:00 + 15:21
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 148 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #958
CALI: 14558N4R #2

BASE M/Z: 142
RIC: 1744890.

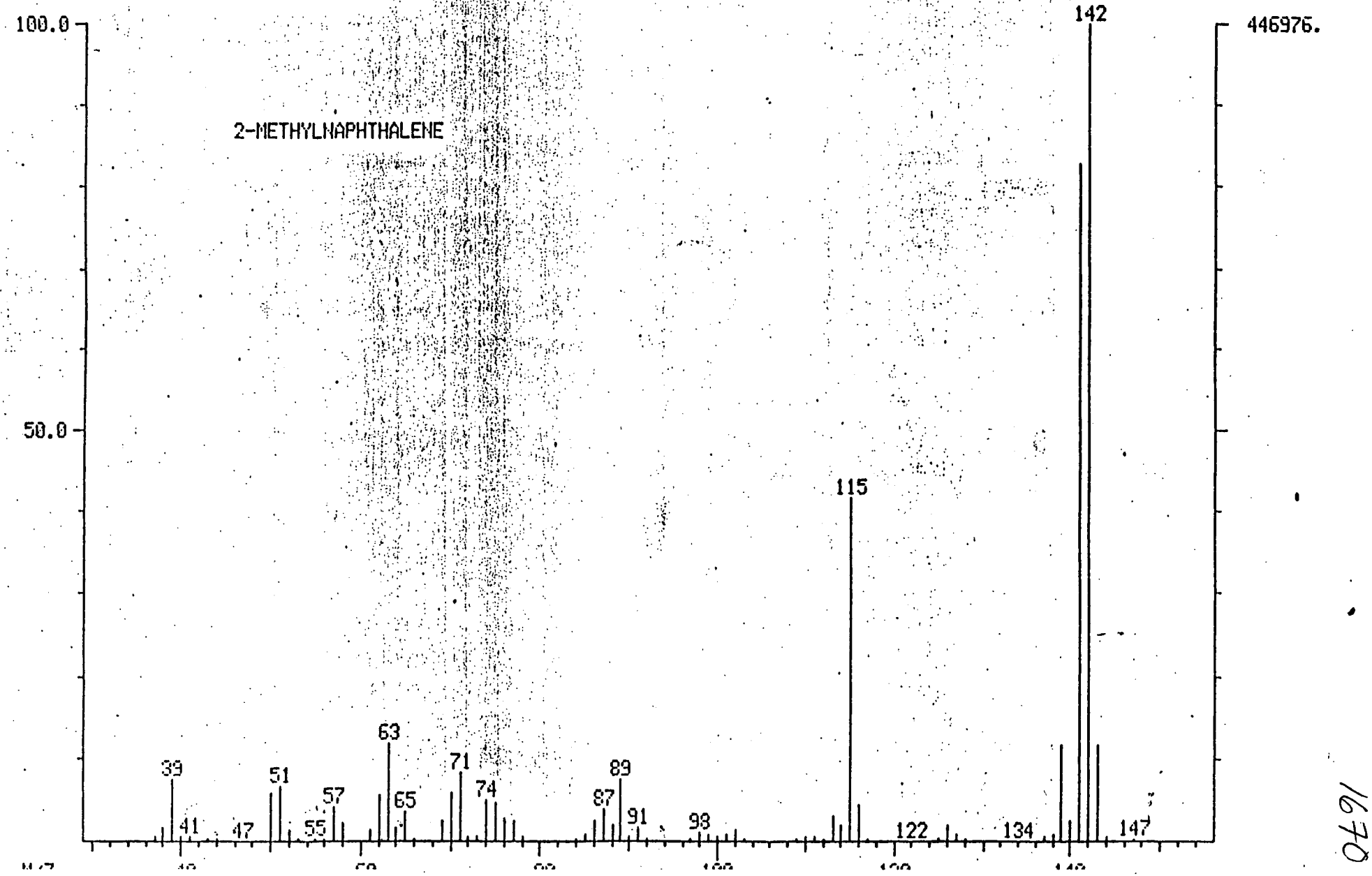


1669

MID MASS SPECTRUM
03/17/87 17:10:00 + 18:15
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 171 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1137
CALI: HSC50317 #2

BASE M/Z: 142
RIC: 1699830.

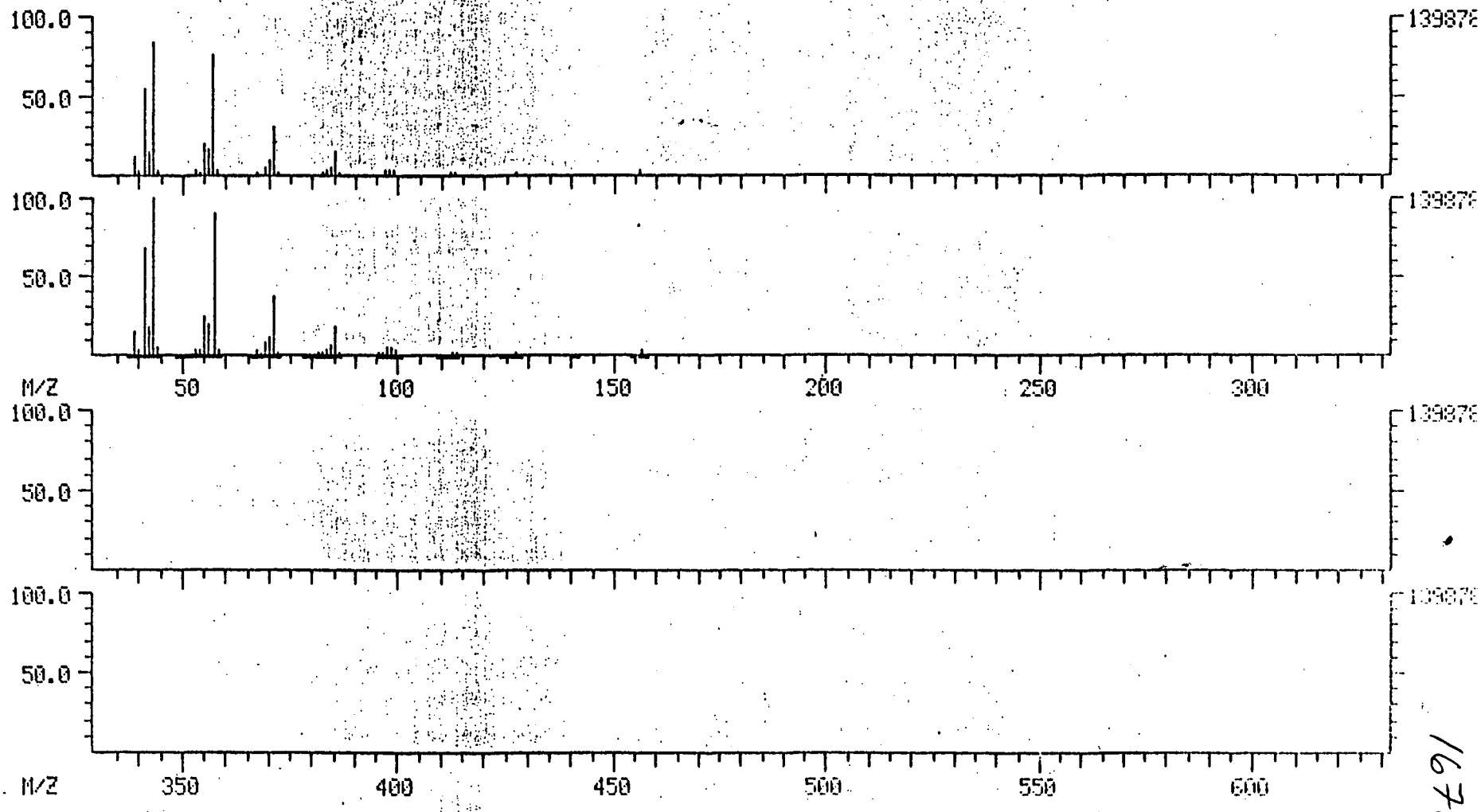


1670

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 11:15
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 115 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #703
CALI: 14558N4R #2

BASE M/Z: 43/ 43
RIC: 5390330./ 6651900.

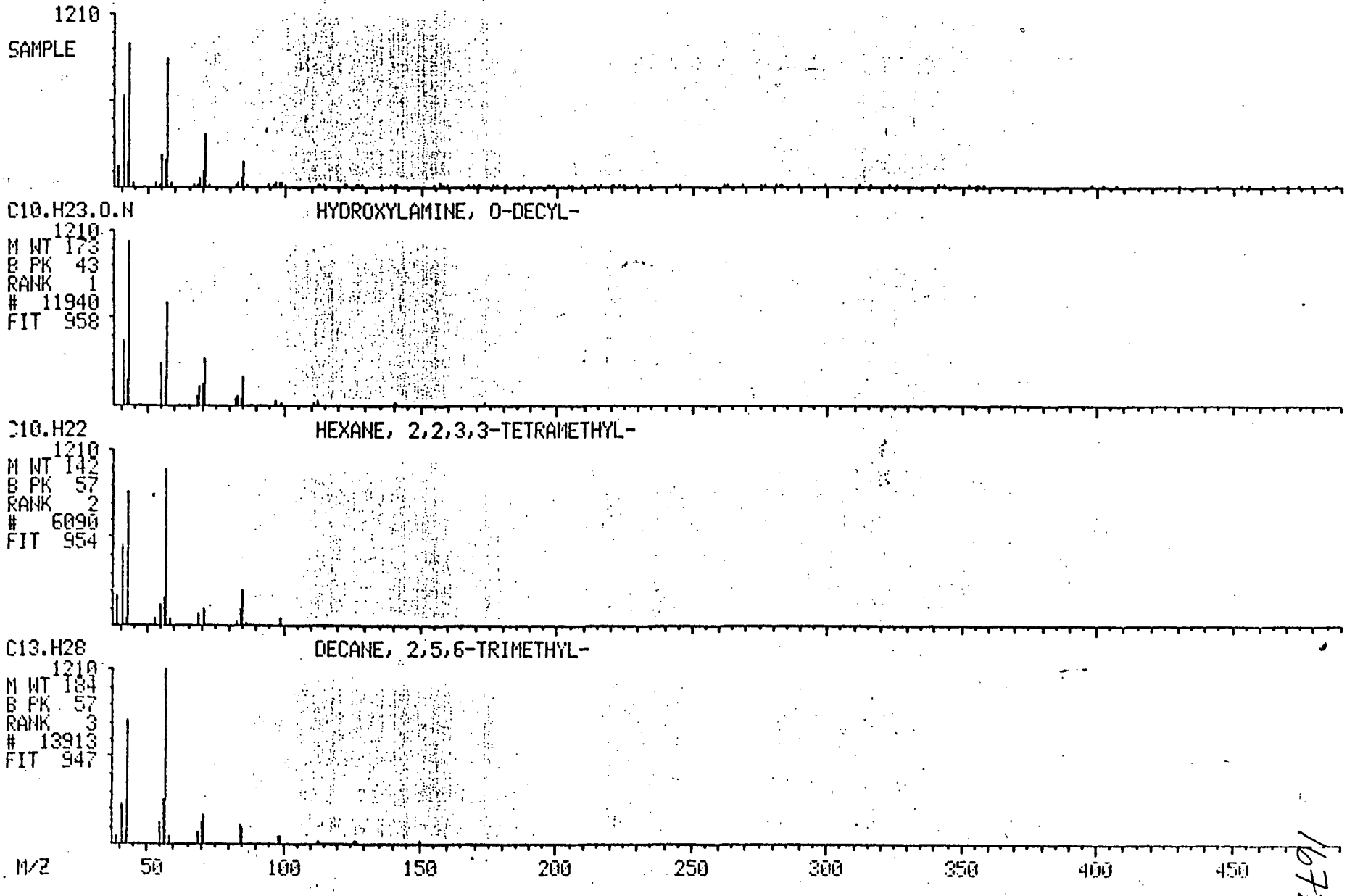


1671

MID LIBRARY SEARCH
08/25/87 22:19:00 + 11:15
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R # 703
CALI: 14558N4R # 2

BASE M/Z: 43
RIC: 5332990.



1672

MID Library Search Data: 14558N4R # 703 Base m/z: 43
08/25/87 22:19:00 + 11:15 Cali: 14558N4R # 2 RIC: 5332990.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	11940	HYDROXYLAMINE, O-DECYL-
2	6090	HEXANE, 2,2,3,3-TETRAMETHYL-
3	13913	DECANE, 2,5,6-TRIMETHYL-
4	8722	NONANE, 4,5-DIMETHYL-
5	16565	ETHER, HEPTYL HEXYL

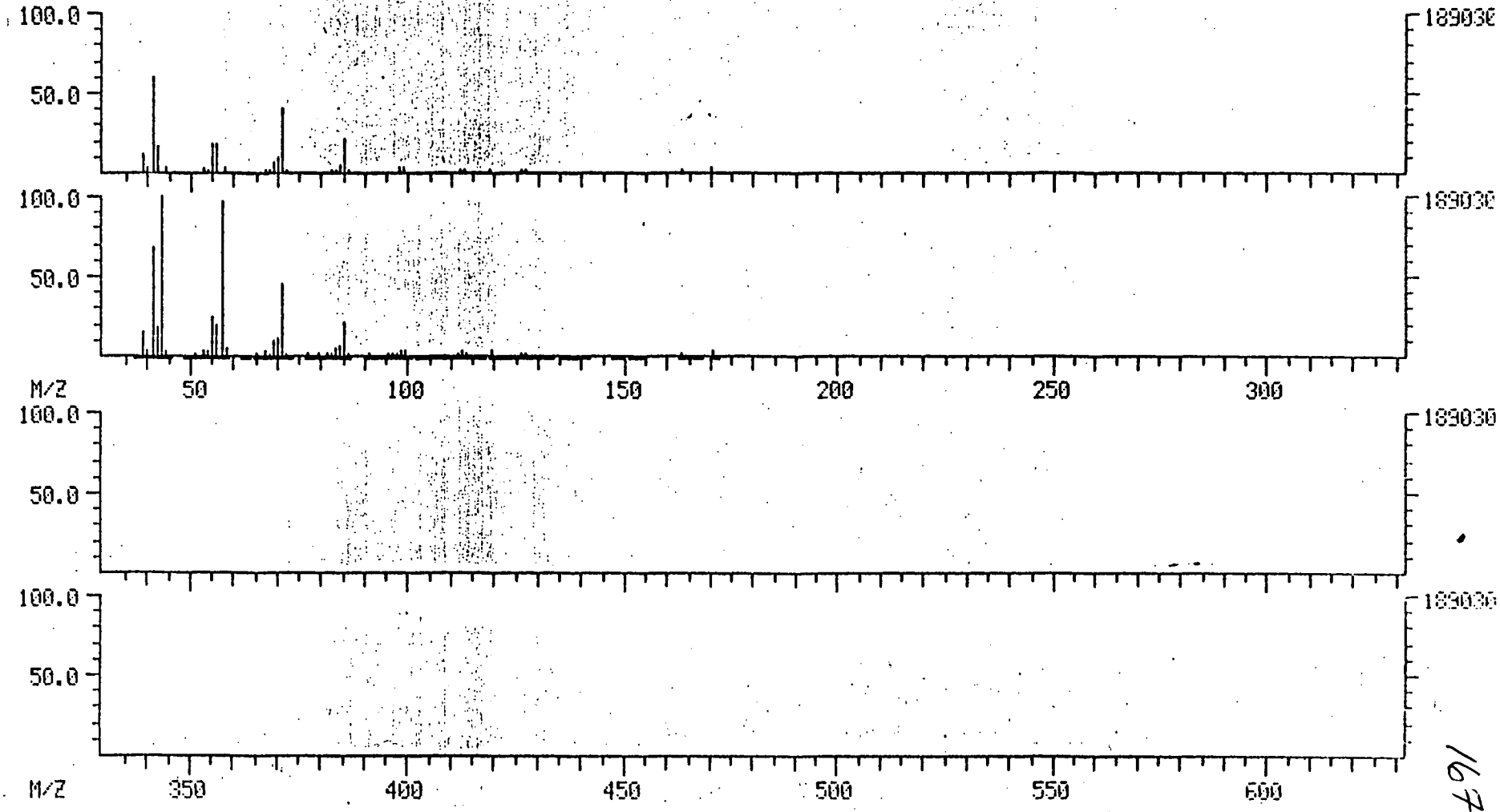
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H23.O.N	173	43	833	958	840
2	C10.H22	142	57	809	954	809
3	C13.H28	184	57	844	947	845
4	C11.H24	156	43	745	947	760
5	C13.H28.O	200	57	721	939	745

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	29812-79-1
2	___	___	___	___	13475-81-5
3	___	___	___	___	62108-23-0
4	___	___	___	___	17302-23-7
5	___	___	___	___	7289-40-9

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 13:17
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 132 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #829
CALI: 14558N4R #2

BASE M/Z: 41/ 43
RIC: 4816890./ 9732090.

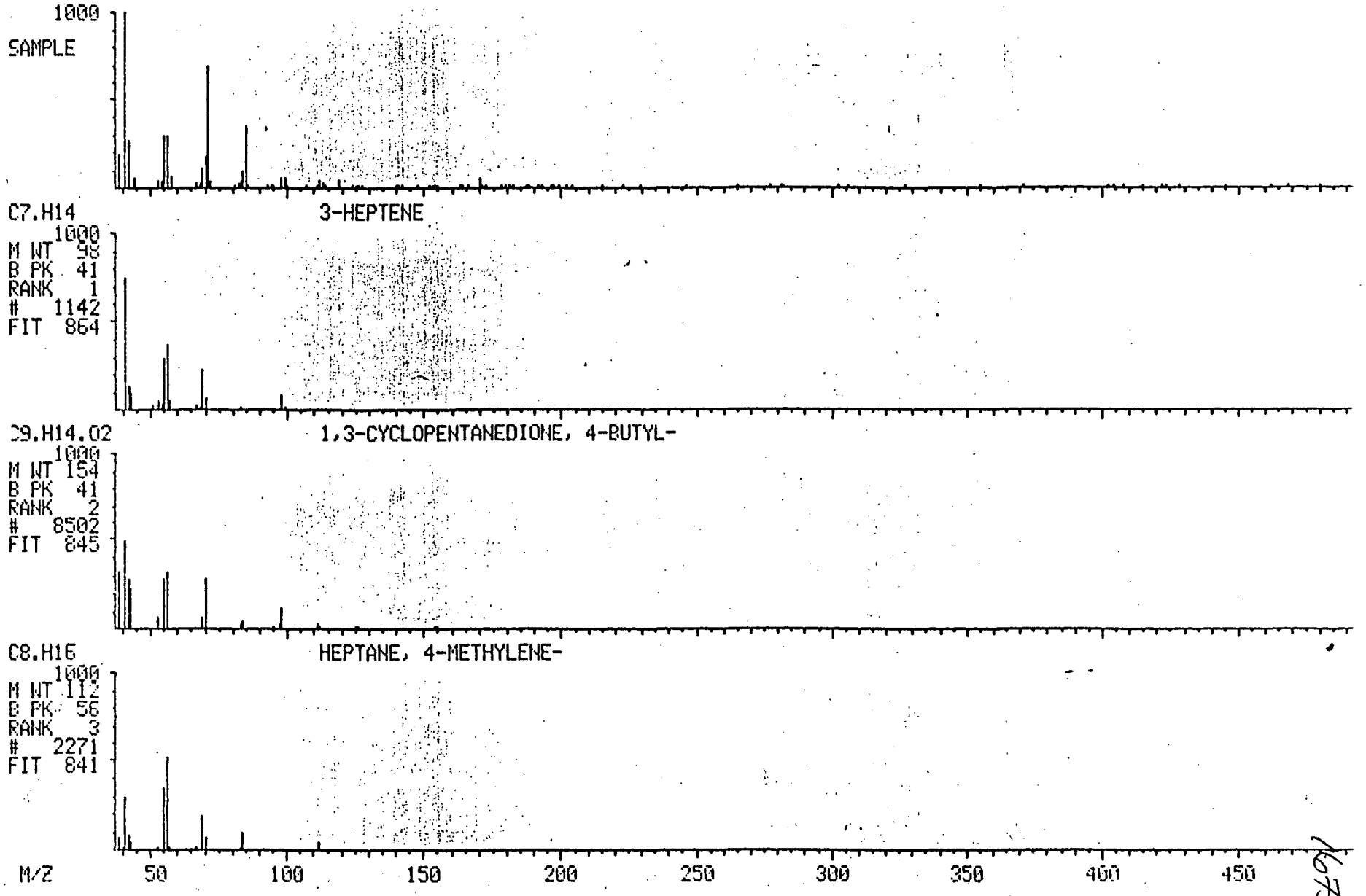


1674

MID LIBRARY SEARCH
08/25/87 22:19:00 + 13:17
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R # 829
CALI: 14558N4R # 2

BASE M/Z: 41
RIC: 4734970.



1675

1676

MID Library Search Data: 14558N4R # 829 Base m/z: 41
08/25/87 22:19:00 + 13:17 Cali: 14558N4R # 2 RIC: 4734970.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	1142	3-HEPTENE
2	8502	1,3-CYCLOPENTANEDIONE, 4-BUTYL-
3	2271	HEPTANE, 4-METHYLENE-
4	1141	2-HEPTENE
5	3700	CYCLOHEPTANONE, 3-METHYL-, (R)-

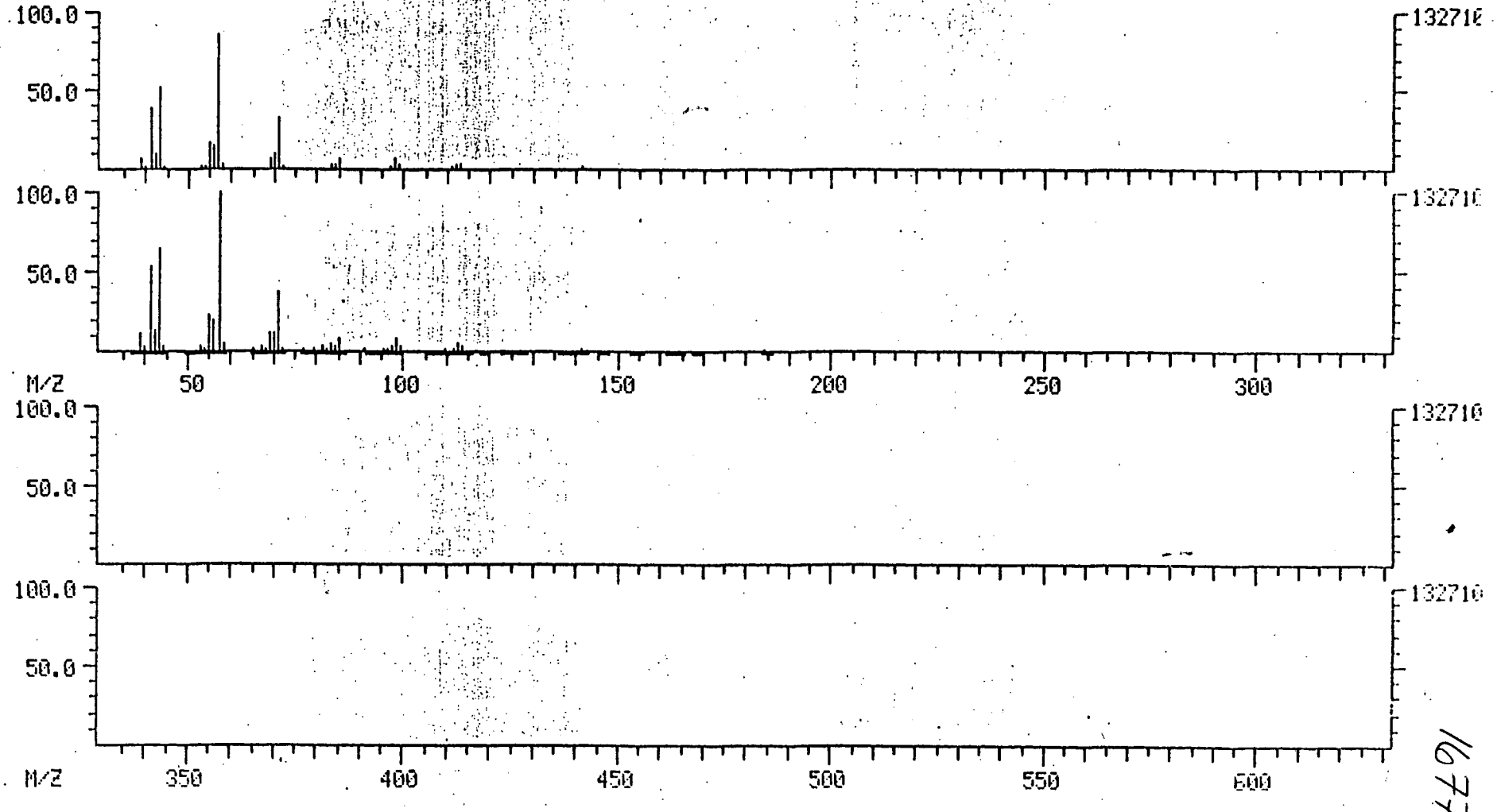
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C7. H14	98	41	399	864	428
2	C9. H14. O2	154	41	427	845	466
3	C8. H16	112	56	401	841	412
4	C7. H14	98	41	387	838	423
5	C8. H14. O	126	41	412	827	438

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	___	___	___	___	592-78-9
2	___	___	___	___	54244-72-3
3	___	___	___	___	15918-08-8
4	___	___	___	___	592-77-8
5	___	___	___	___	13609-58-0

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 13:33
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 134 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #846
CALI: 14558N4R #2

BASE M/Z: 57/ 57
RIC: 4341750./ 5799930.

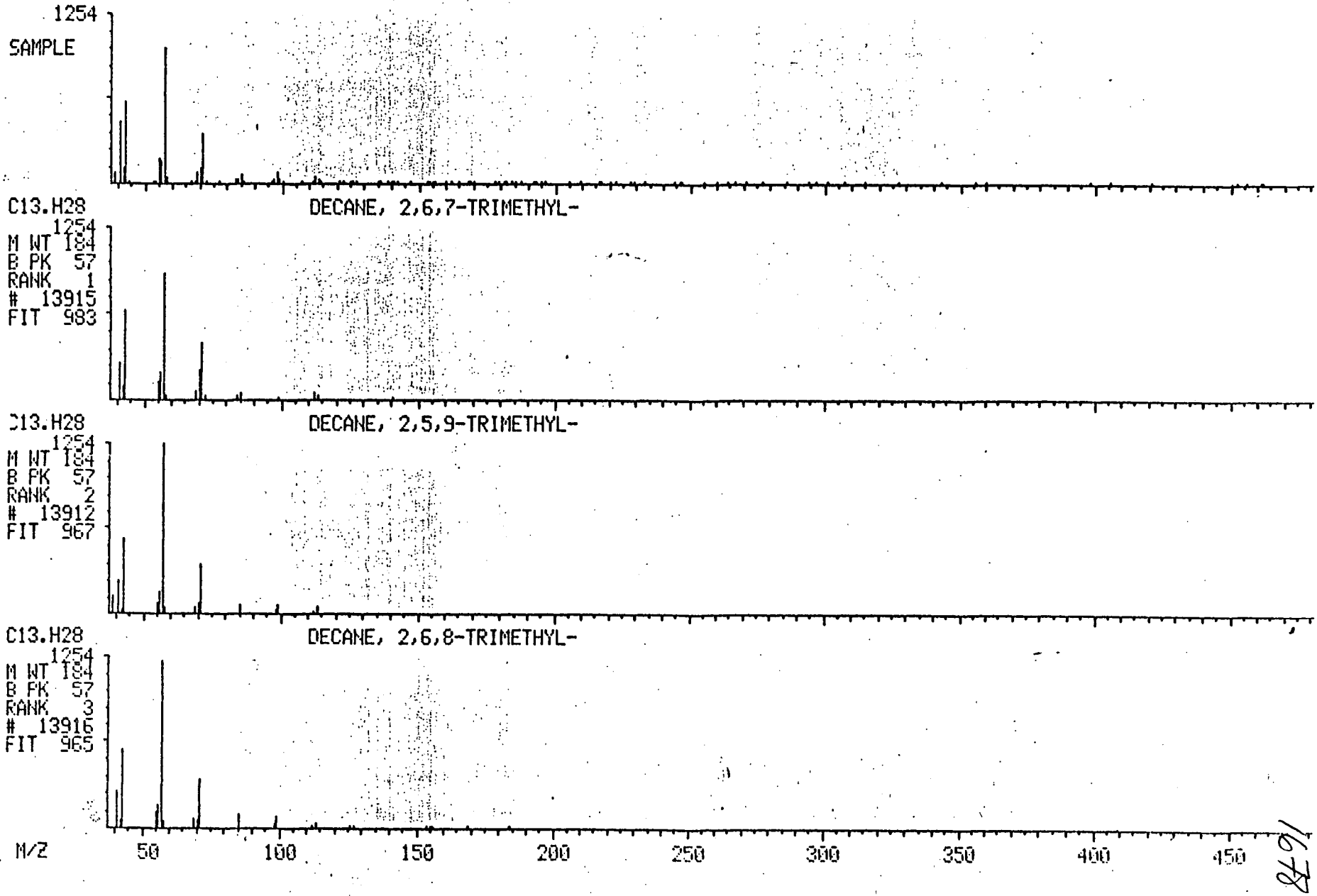


1677

MID LIBRARY SEARCH
08/25/87 22:19:00 + 13:33
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R # 846
CALI: 14558N4R # 2

BASE M/Z: 57
RIC: 4308990.



678

MID Library Search Data: 14558N4R # 846 Base m/z: 57
08/25/87 22:19:00 + 13:33 Cali: 14558N4R # 2 RIC: 4308990.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	13915	DECANE, 2,6,7-TRIMETHYL-
2	13912	DECANE, 2,5,9-TRIMETHYL-
3	13916	DECANE, 2,6,8-TRIMETHYL-
4	16280	TRIDECANE, 7-METHYL-
5	13913	DECANE, 2,5,6-TRIMETHYL-

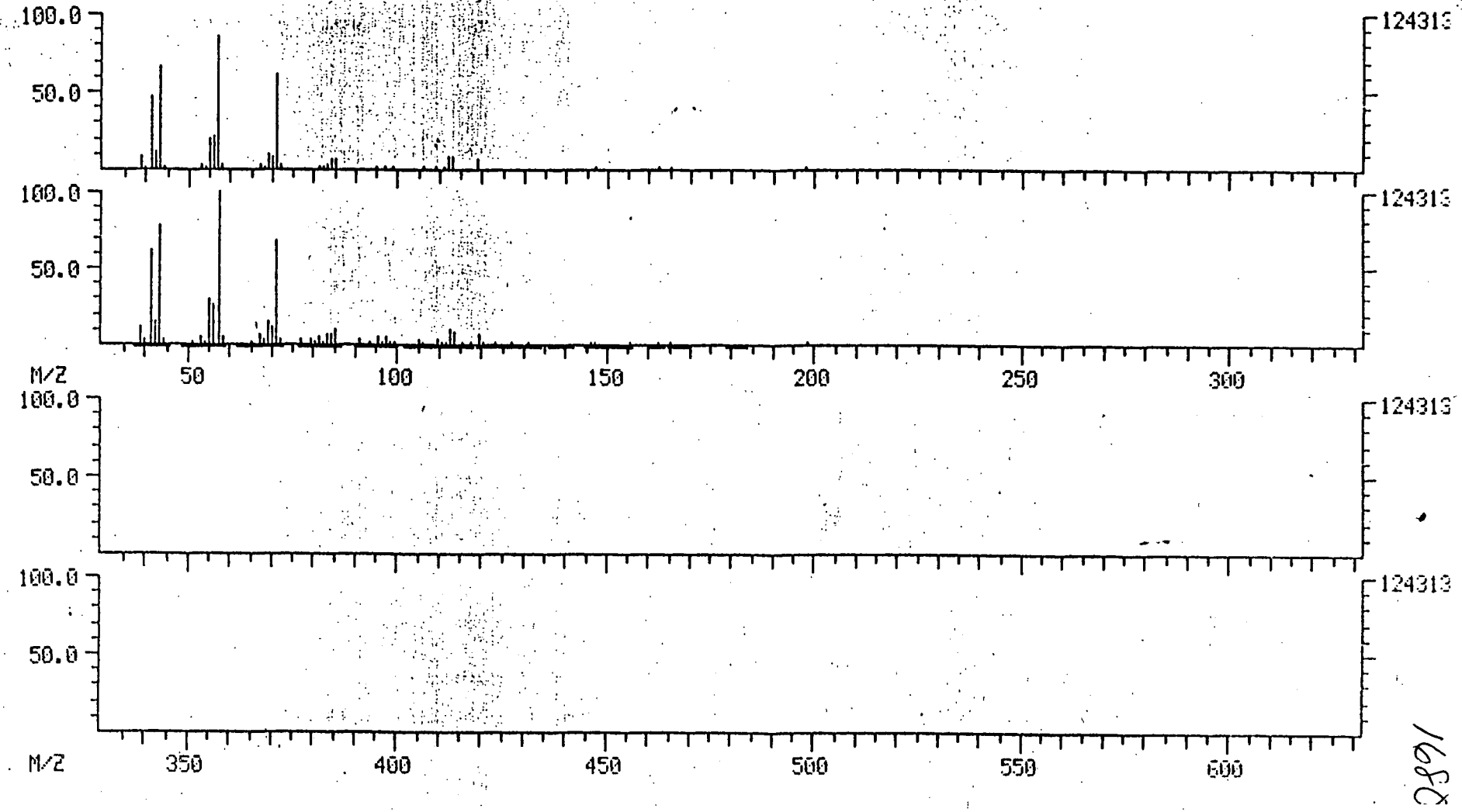
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H28	184	57	838	983	838
2	C13.H28	184	57	844	967	844
3	C13.H28	184	57	849	965	849
4	C14.H30	198	57	845	963	853
5	C13.H28	184	57	822	949	822

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	62108-25-2
2	___	___	___	___	62108-22-9
3	___	___	___	___	62108-26-3
4	___	___	___	___	26730-14-3
5	___	___	___	___	62108-23-0

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 14:40
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 143 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #916
CALI: 14558N4R #2

BASE M/Z: 57/ 57
RIC: 5201910./ 7135230.

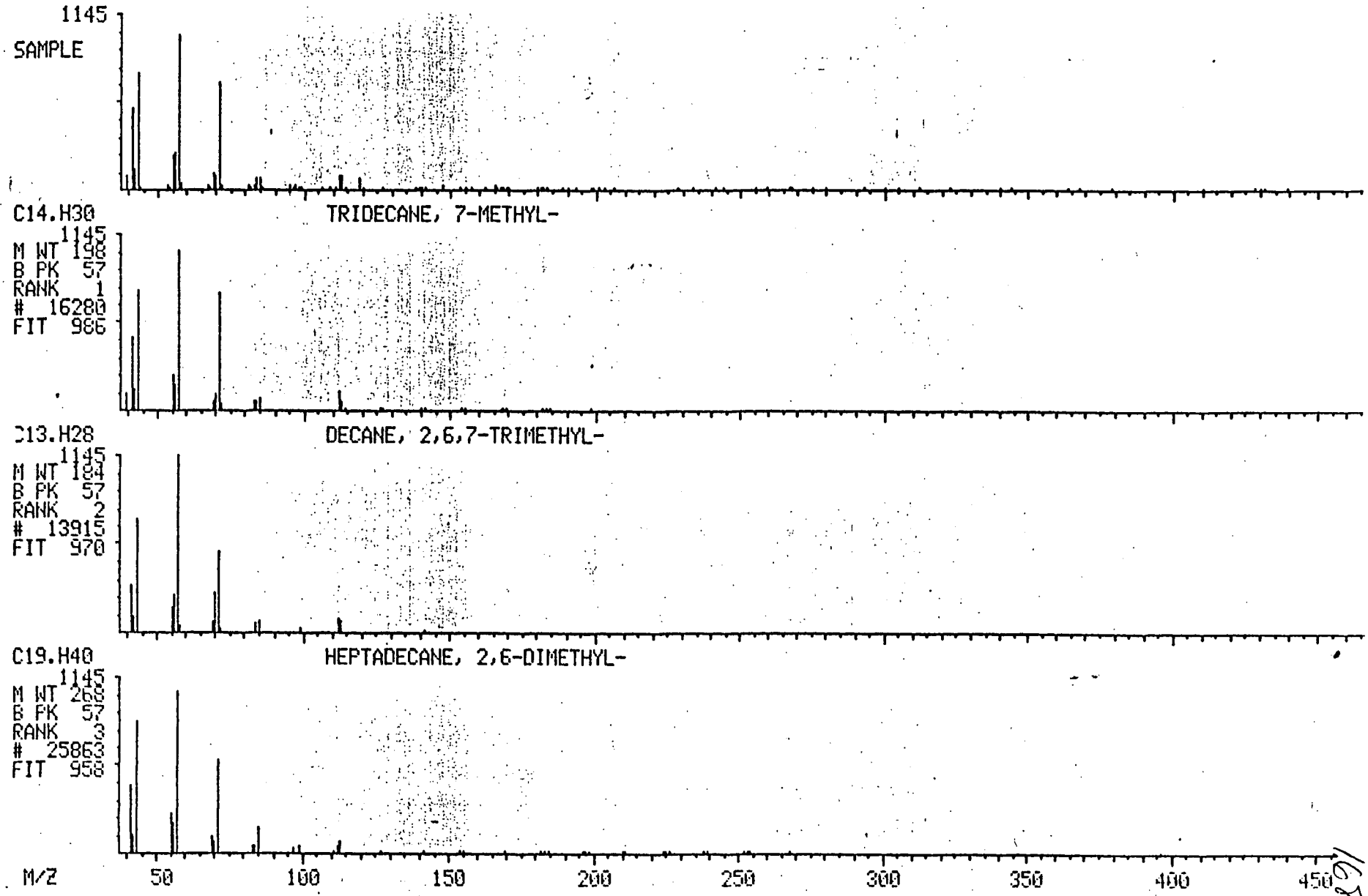


1681

MID LIBRARY SEARCH
08/25/87 22:19:00 + 14:40
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R # 916
CALI: 14558N4R # 2

BASE M/Z: 57
RIC: 5128190.



1687

MID Library Search Data: 14558N4R # 916 Base m/z: 57
08/25/87 22:19:00 + 14:40 Cali: 14558N4R # 2 RIC: 5128190.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	16280	TRIDECANE, 7-METHYL-
2	13915	DECANE, 2,6,7-TRIMETHYL-
3	25863	HEPTADECANE, 2,6-DIMETHYL-
4	8732	OCTANE, 2,3,7-TRIMETHYL-
5	16565	ETHER, HEPTYL HEXYL

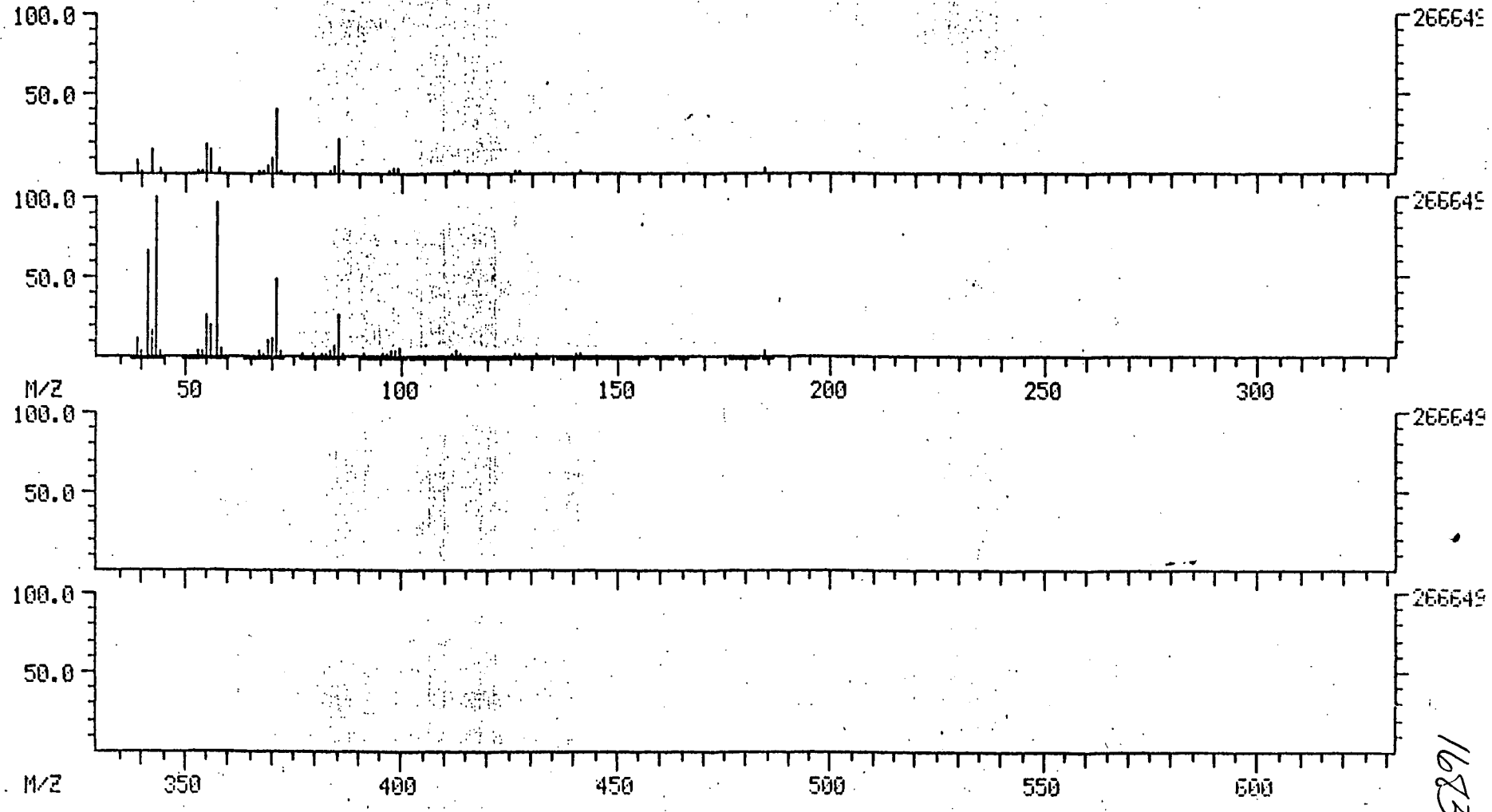
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H30	198	57	836	986	839
2	C13.H28	184	57	789	970	789
3	C19.H40	268	57	804	958	817
4	C11.H24	156	57	765	957	786
5	C13.H28.O	200	57	556	948	570

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	26730-14-3
2	___	___	___	___	62108-25-2
3	___	___	___	___	54105-67-8
4	___	___	___	___	62016-34-6
5	___	___	___	___	7289-40-9

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 15:11
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 147 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #948
CALI: 14558N4R #2

BASE M/Z: 71/ 43
RIC: 4898810./13811700.

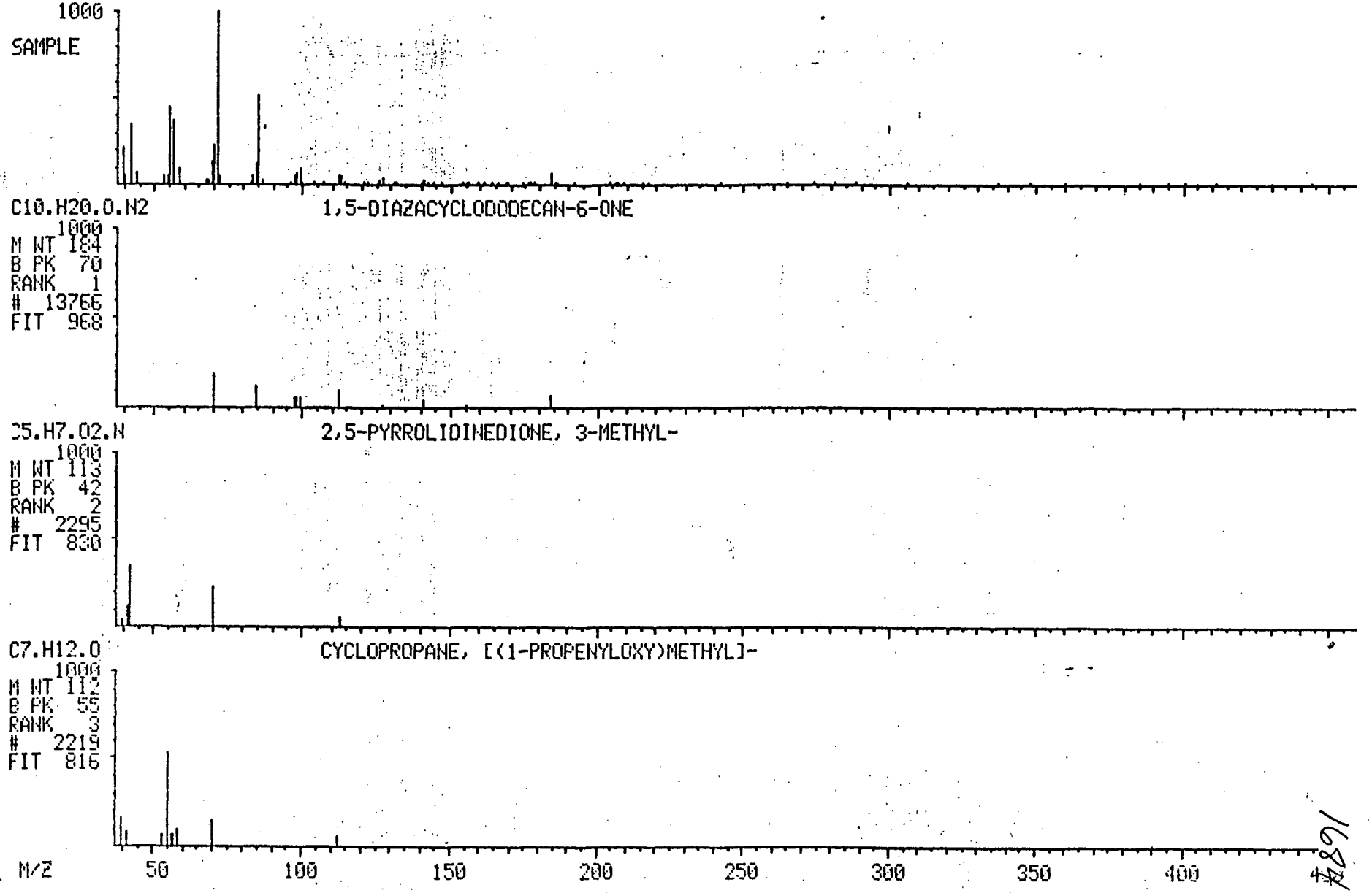


183

MID LIBRARY SEARCH
08/25/87 22:19:00 + 15:11
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R # 948
CALI: 14558N4R # 2

BASE M/Z: 71
RIC: 4874230.



1687A

MID Library Search Data: 14558N4R # 948 Base m/z: 71
08/25/87 22:19:00 + 15:11 Cali: 14558N4R # 2 RIC: 4874230.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	13766	1,5-DIAZACYCLODODECAN-6-ONE
2	2295	2,5-PYRROLIDINEDIONE, 3-METHYL-
3	2219	CYCLOPROPANE, [(1-PROPENYLOXY)METHYL]-
4	3757	CYCLOPENTANE, 1-METHYL-2-PROPYL-
5	2271	HEPTANE, 4-METHYLENE-

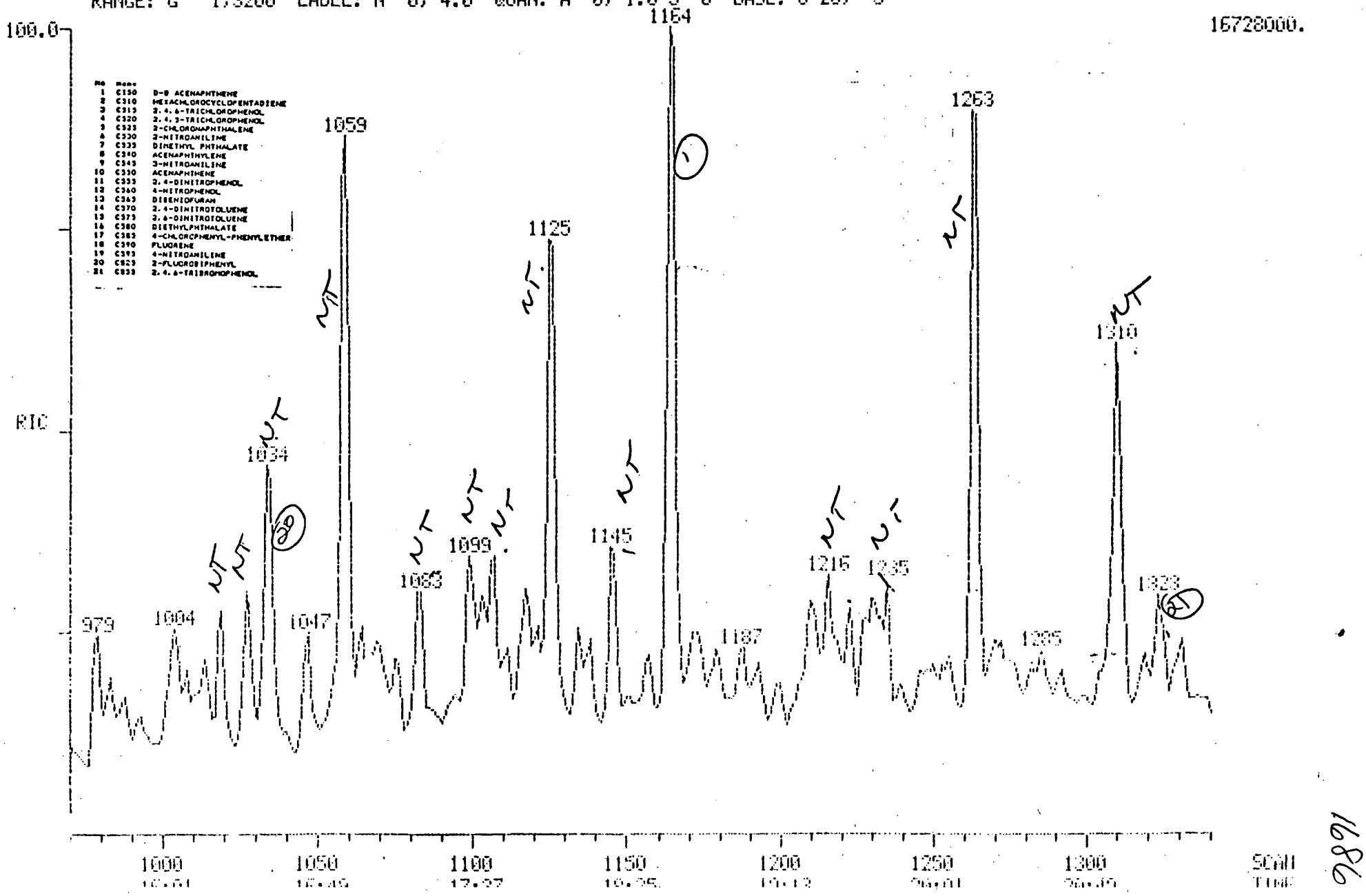
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H20.O.N2	184	70	221	968	221
2	C5.H7.O2.N	113	42	112	830	128
3	C7.H12.O	112	55	209	816	232
4	C9.H18	126	55	301	781	351
5	C8.H16	112	56	286	781	327

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	67370-72-3
2	___	___	___	___	5615-90-7
3	___	___	___	___	64340-98-3
4	___	___	___	___	3728-57-2
5	___	___	___	___	15918-08-8

MIDRIC
08/25/87 22:19:00
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558N4R #1
CALI: 14558N4R #2

SCANS 970 TO 1340



PK	mass	
1	C350	D-B ACENAPHTHENE
2	C310	HEXACHLOROCYCLOPENTADIENE
3	C313	2,4,6-TRICHLOROPHENOL
4	C320	2,4,5-TRICHLOROPHENOL
5	C323	2-CHLORONAPHTHALENE
6	C330	2-NITROANILINE
7	C335	DIMETHYL PHTHALATE
8	C340	ACENAPHTHYLENE
9	C343	3-NITROANILINE
10	C350	ACENAPHTHENE
11	C353	2,4-DINITROPHENOL
12	C360	4-NITROPHENOL
13	C363	DIBENZOFURAN
14	C370	2,6-DINITROTOLUENE
15	C373	2,4-DINITROTOLUENE
16	C380	DIETHYLPHTHALATE
17	C383	4-CHLOROPHENYL-PHENYLETHER
18	C390	FLUORENE
19	C393	4-NITROANILINE
20	C823	2-FLUOROBIPHENYL
21	C838	2,4,6-TRIBROMOPHENOL

9891

1687

Quantitation Report File: 14558N4R

Data: 14558N4R.TI
08/25/87 22:19:00
Sample: 14558-4
Conds.: 10.350MG/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558N4R

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

No	Name		
1	CI50	D-8 ACENAPHTHENE	(INT. STD.)
2	C510	HEXACHLOROCYCLOPENTADIENE	**
3	C515	2,4,6-TRICHLOROPHENOL	*
4	C520	2,4,5-TRICHLOROPHENOL	
5	C525	2-CHLORONAPHTHALENE	
6	C530	2-NITROANILINE	
7	C535	DIMETHYL PHTHALATE	
8	C540	ACENAPHTHYLENE	
9	C545	3-NITROANILINE	
10	C550	ACENAPHTHENE	*
11	C555	2,4-DINITROPHENOL	**
12	C560	4-NITROPHENOL	**
13	C565	DIBENZOFURAN	
14	C570	2,4-DINITROTOLUENE	
15	C543	2,6-DINITROTOLUENE	
16	C580	DIETHYLPHTHALATE	
17	C585	4-CHLOROPHENYL-PHENYLETHER	
18	C590	FLUORENE	
19	C595	4-NITROANILINE	
20	CS25	2-FLUOROBIPHENYL	(SURROGATE)
21	CS55	2,4,6-TRIBROMOPHENOL	(SURROGATE)

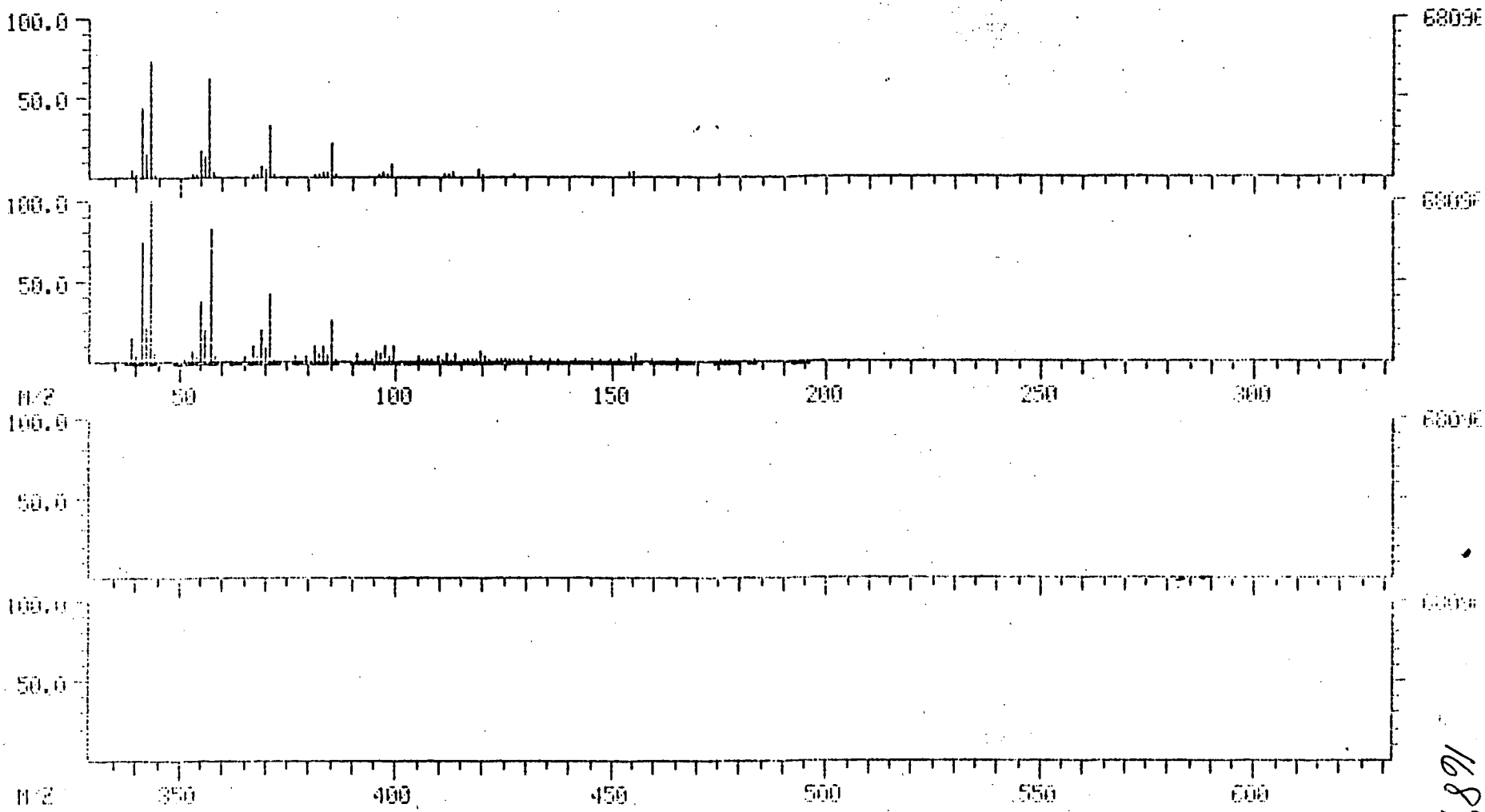
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	164	1166	18:40	1	1.000	A BV	1346120.	40.000 NG	35.05	
2	NOT FOUND									
3	196	1030	16:30	1	0.883	A VB	~~33647.~~	~~2.966 NG~~	~~2.60~~	No QQU
4	196	1040	16:39	1	0.892	A VB	~~2561.~~	~~0.183 NG~~	~~0.16~~	NO QQU
5	162	1054	16:53	1	0.904	A*BB	~~6741.~~	~~0.178 NG~~	~~0.16~~	NO QQU
6	65	1083	17:21	1	0.929	A*BB	~~63774.~~	~~3.742 NG~~	~~3.28~~	No QQU
7	163	1125	18:01	1	0.965	A*VB	~~29636.~~	~~0.580 NG~~	~~0.51~~	No QQU
8	152	1138	18:13	1	0.976	A BB	~~75784.~~	~~1.241 NG~~	~~1.09~~	NO QQU
9	138	1163	18:37	1	0.997	A BB	~~7908.~~	~~0.661 NG~~	0.58	NO QQU
10	153	1172	18:46	1	1.005	A VV	~~94810.~~	~~2.368 NG~~	~~2.07~~	NO QQU
11	184	1186	19:00	1	1.017	A VB	~~1772.~~	~~1.384 NG~~	~~1.21~~	NO QQU
12	139	1203	19:16	1	1.032	A BV	~~195711.~~	~~20.227 NG~~	~~17.73~~	NO QQU
13	168	1203	19:16	1	1.032	A BV	~~143087.~~	~~2.562 NG~~	~~2.25~~	NO QQU
14	89	1215	19:27	1	1.042	A*VB	~~107464.~~	~~8.723 NG~~	~~3.90~~	NO QQU
15	165	1136	18:12	1	0.974	A BV	~~24124.~~	~~2.179 NG~~	~~1.93~~	NO QQU
16	149	1272	20:22	1	1.091	A*BB	~~8874.~~	~~0.597 NG~~	~~0.47~~	NO QQU
17	204	1272	20:22	1	1.091	A VV	~~22816.~~	~~1.085 NG~~	~~0.91~~	NO QQU
18	166	1272	20:22	1	1.091	A BB	~~248172.~~	~~5.454 NG~~	~~4.78~~	NO QQU
19	138	1295	20:35	1	1.102	A BB	~~9794~~	~~1.051 NG~~	~~0.92~~	NO QQU
20	172	1036	16:35	1	0.869	A BB	189152.	4.772 NG	4.18	YES QQU
21	330	1324	21:12	1	1.136	A BB	75552.	16.247 NG	14.24	YES QQU

No	Rat(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	18:40	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	16:04		0.860						
3	18:20	1.01	0.975	1.01	2.97	50.00	0.023	0.387	0.06
4	18:27	1.01	0.981	1.01	0.18	50.00	0.002	0.420	0.00
5	18:31	1.00	0.902	1.00	0.18	50.00	0.004	1.160	0.00
6	17:19	1.00	0.927	1.00	3.74	50.00	0.051	0.681	0.07
7	18:02	1.00	0.966	1.00	0.58	50.00	0.018	1.519	0.01
8	18:10	1.00	0.973	1.00	1.24	50.00	0.045	1.815	0.02
9	18:37	1.00	0.997	1.00	0.67	50.00	0.004	0.313	0.01
10	18:45	1.00	1.004	1.00	2.37	50.00	0.059	1.215	0.05
11	18:57	1.00	1.015	1.00	1.38	50.00	0.001	0.038	0.03
12	19:14	1.00	1.030	1.00	20.23	50.00	0.063	0.156	0.40
13	19:16	1.00	1.032	1.00	2.56	50.00	0.088	1.717	0.05
14	19:27	1.00	1.041	1.00	6.73	50.00	0.064	0.475	0.13
15	18:13	1.00	0.976	1.00	2.20	50.00	0.015	0.331	0.04
16	20:18	1.00	1.087	1.00	0.54	50.00	0.018	1.702	0.01
17	20:25	1.00	1.093	1.00	1.04	50.00	0.014	0.655	0.02
18	20:22	1.00	1.091	1.00	5.45	50.00	0.145	1.325	0.11
19	20:35	1.00	1.102	1.00	1.05	50.00	0.006	0.277	0.02
20	16:35	1.00	0.889	1.00	4.77	50.00	0.112	1.178	0.10
21	21:12	1.00	1.136	1.00	16.25	50.00	0.045	0.138	0.32

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 16:19
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 156 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558NAR #1019
CALI: 14558NAR #2

BASE M/Z: 43/ 43
RIC: 2441210./ 4562940.

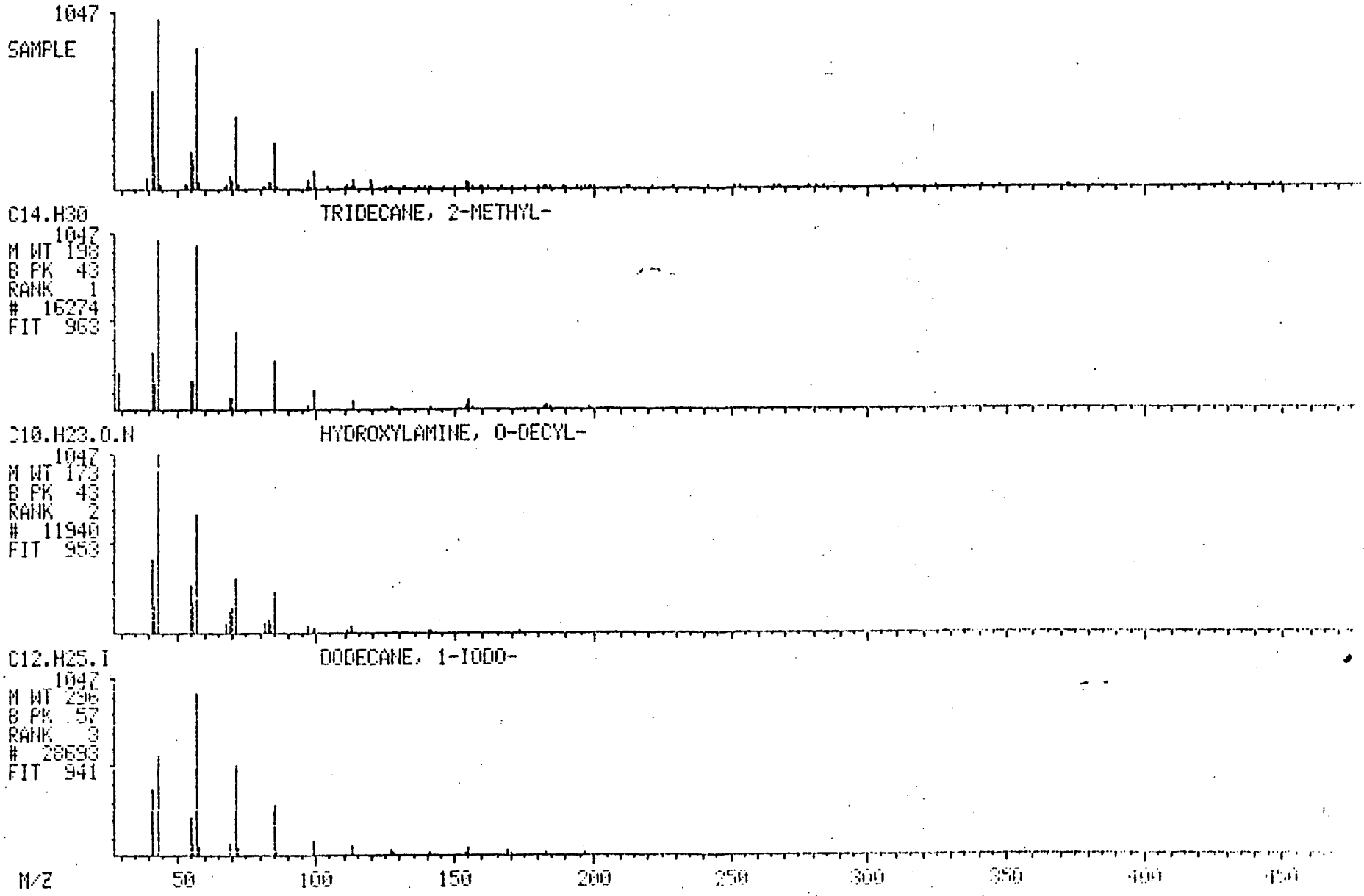


1889

MID LIBRARY SEARCH
08/25/87 22:19:00 + 16:19
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558NHR #1019
CALI: 14558NHR # 2

BASE M/Z: 43
RIC: 2420730.



MID Library Search Data: 14538N4R #1019 Base m/z: 43
08/25/87 22:19:00 + 16:19 Calib: 14538N4R # 2 RIC: 2420730.
Sample: 14538-4
Concn: 10.38mg/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 152 2N 0T)

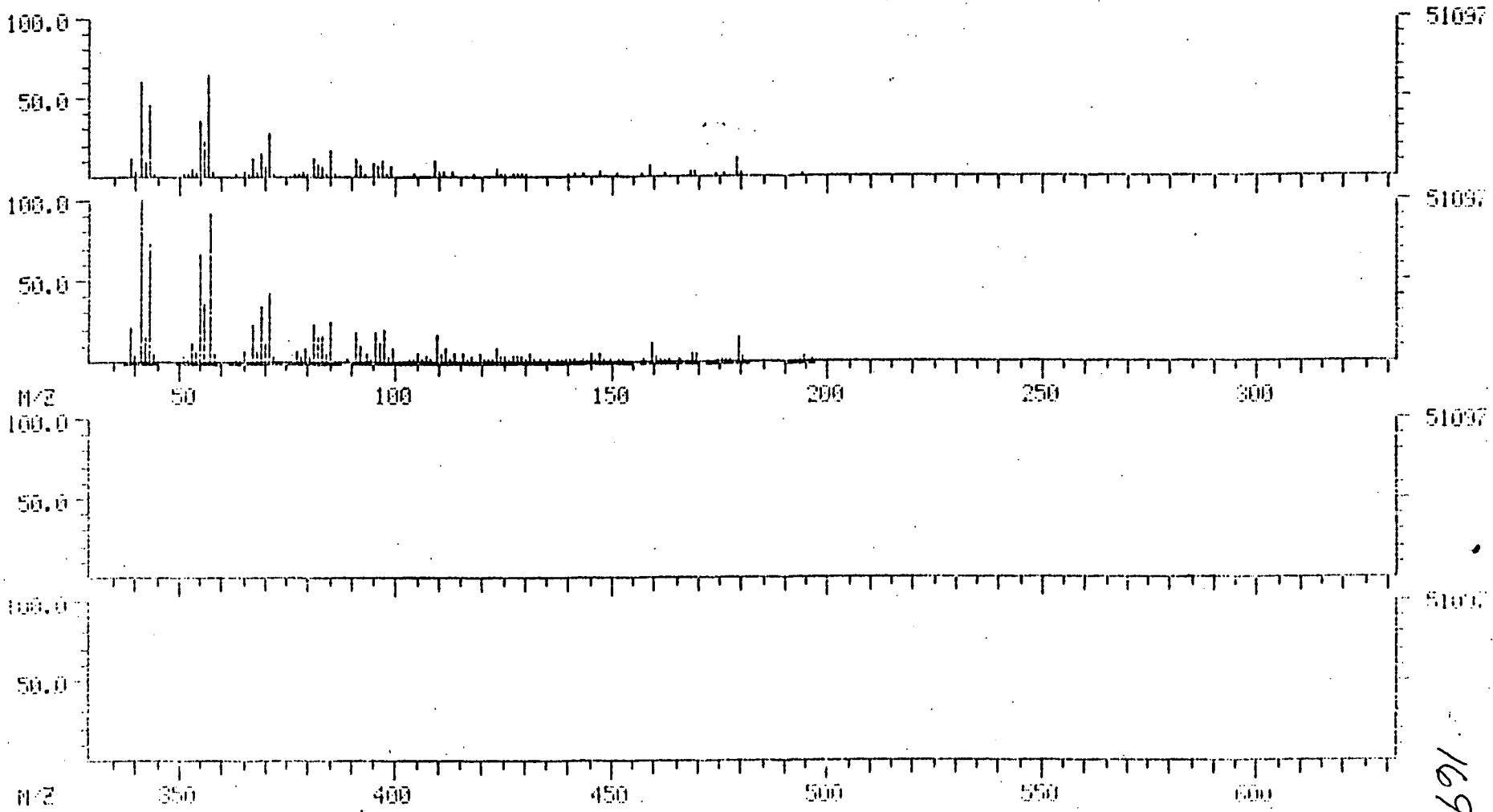
Rank	In.	Name
1	16274	TRIDECANE, 2-METHYL-
2	17240	HYDROXYLAMINE, O-DECYL-
3	28e72	DODECANE, 1-IODO-
4	13716	DECANE, 2,6,8-TRIMETHYL-
5	13885	UNDECANE, 3-ETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H30	198	43	785	963	806
2	C10.H23.O.N	173	43	739	953	742
3	C12.H25.I	296	57	722	941	737
4	C13.H28	184	57	757	939	758
5	C13.H28	184	43	758	936	782

Rank	Ret Time	S.P. Int.	UB. Par 1	UB. Par 2	C.A.S. #
1	----	----	----	----	1560-96-9
2	----	----	----	----	29812-79-1
3	----	----	----	----	4292-19-7
4	----	----	----	----	62108-26-3
5	----	----	----	----	17312-58-2

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 16:27
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 157 DEG. C
ENHANCED (S 15B 2N 0T)

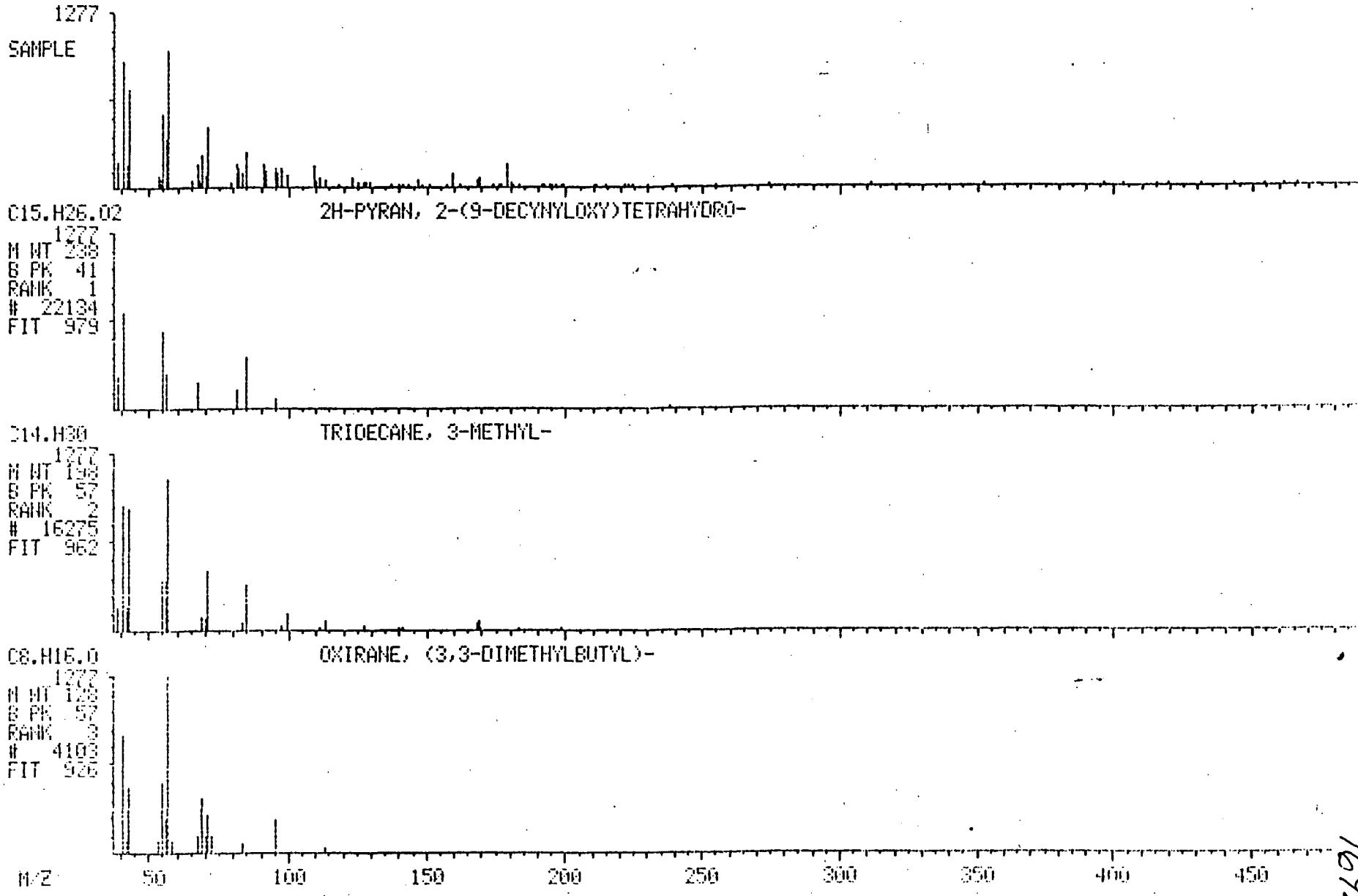
DATA: 14558N4R #1027 BASE M/Z: 57/ 41
CALI: 14558N4R #2 RIC: 2736120./ 4938920.



1691

MID LIBRARY SEARCH
08/25/87 22:19:00 + 16:27
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1027 BASE M/Z: 57
CALI: 14558N4R # 2 RIC: 2543610.



1662

MID Library Search Data: 14558N4R #1027 Base m/z: 57
08/25/87 22:19:00 + 16:27 Cali: 14558N4R # 3 RIC: 2543610.
Sample: 14558-4
Conc.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 158 2N 0T)

Rank	In.	Name
1	22134	2H-PYRAN, 2-(9-DECYNYLOXY)TETRAHYDRO-
2	16275	TRIDECANE, 3-METHYL-
3	4103	OXIRANE, (3,3-DIMETHYLBUTYL)-
4	22446	OXIRANE, TETRADECYL-
5	15533	DODECANE, 2,6,10-TRIMETHYL-

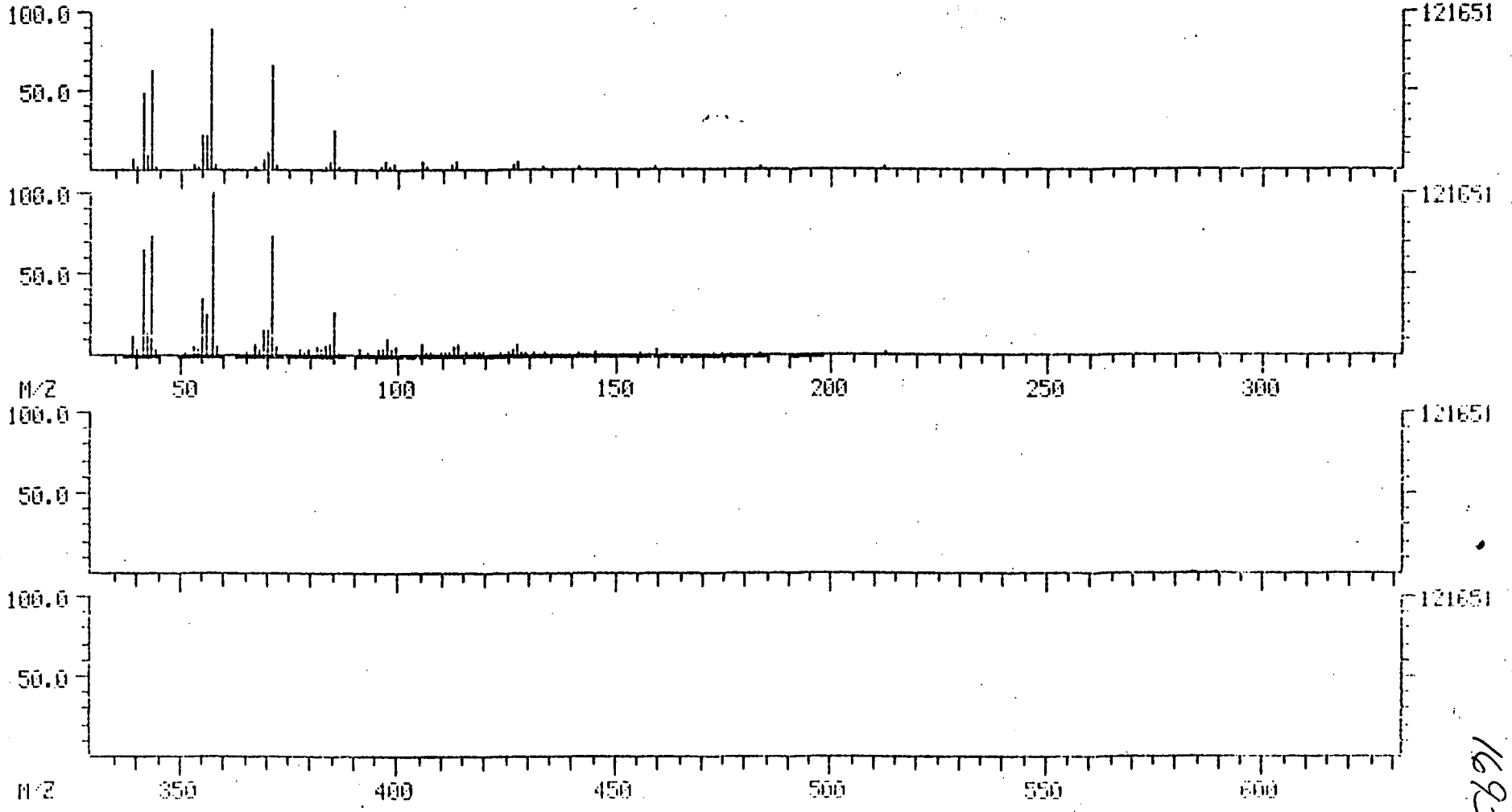
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H26.O2	238	41	262	979	262
2	C14.H30	198	57	565	962	569
3	C8.H16.O	128	57	446	926	467
4	C16.H32.O	240	41	508	908	526
5	C15.H32	212	57	505	906	531

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	19754-58-6
2	___	___	___	___	6418-41-3
3	___	___	___	___	53907-77-0
4	___	___	___	___	7320-37-8
5	___	___	___	___	3891-98-3

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 16:34
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 158 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558NAR #1034
CALI: 14558NAR #2

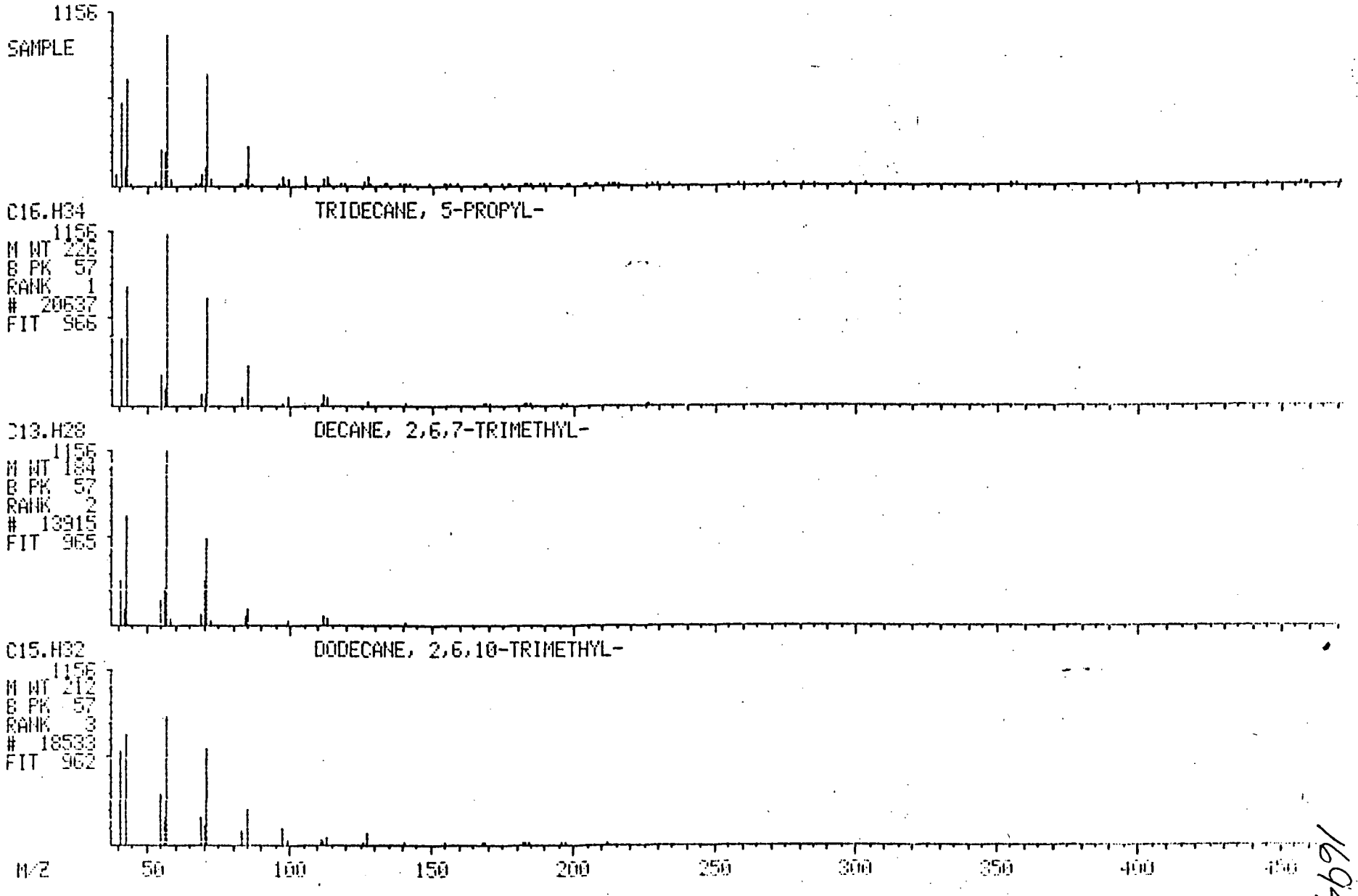
BASE M/Z: 57/ 57
RIC: 5406710./ 7E51320.



MID LIBRARY SEARCH
08/25/87 22:19:00 + 16:34
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1034
CALI: 14558N4R # 2

BASE M/Z: 57
RIC: 5332990.



1694

MID Library Search Data: 14558N4R #1034 Base m/z: 57
08/25/87 22:19:00 + 16:34 Cali: 14558N4R # 2 RIC: 5332990.
Sample: 14558-4
Conds.: 10.350MG/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	20637	TRIDECANE, 5-PROPYL-
2	13915	DECANE, 2,6,7-TRIMETHYL-
3	18503	DODECANE, 2,6,10-TRIMETHYL-
4	25863	HEPTADECANE, 2,6-DIMETHYL-
5	18541	DODECANE, 2,7,10-TRIMETHYL-

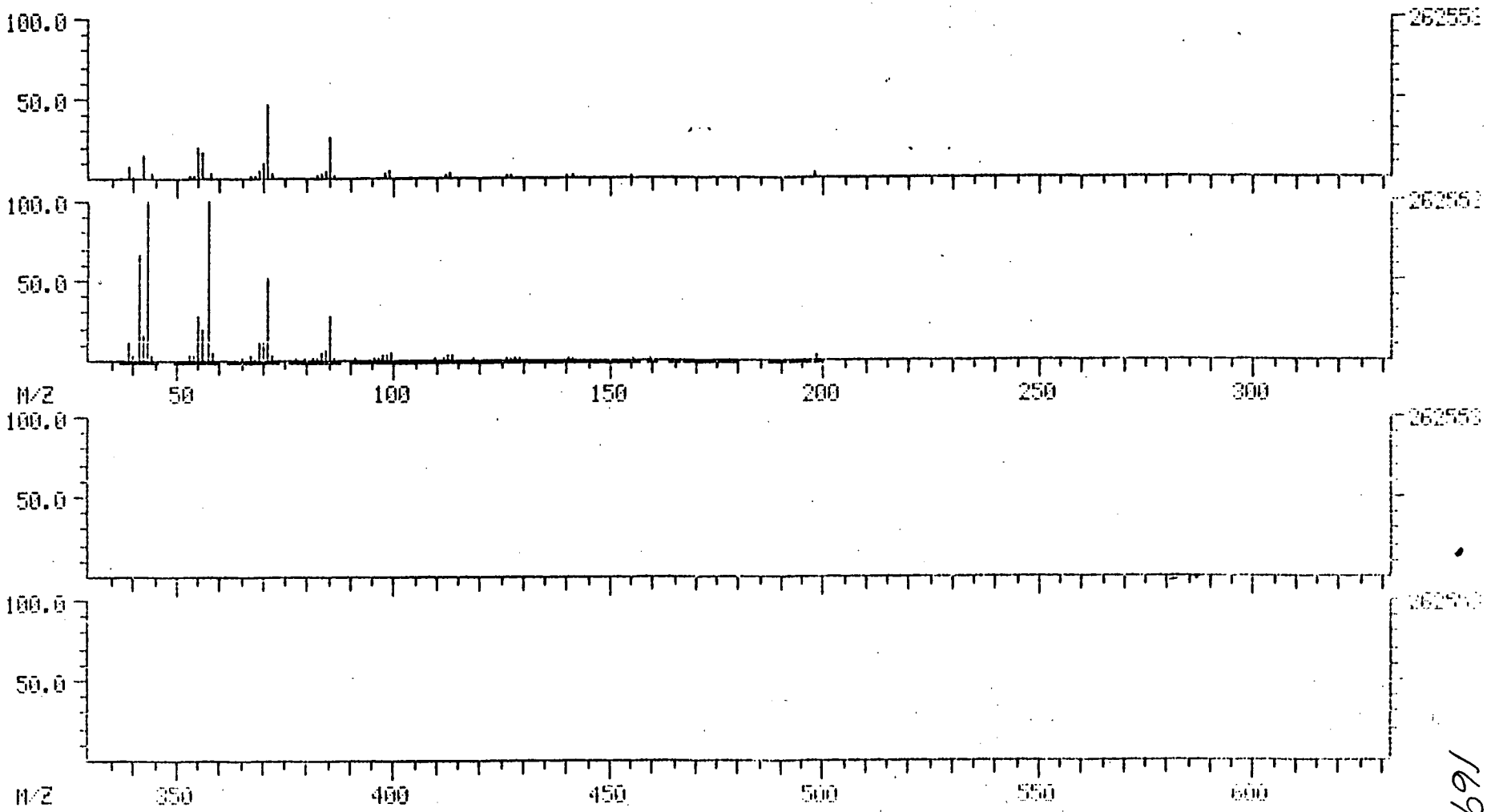
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C16.H34	226	57	796	966	801
2	C13.H28	184	57	771	965	771
3	C15.H32	212	57	814	962	825
4	C19.H40	268	57	822	961	838
5	C15.H32	212	57	792	956	820

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	55045-11-9
2	___	___	___	___	62108-25-2
3	___	___	___	___	3891-98-3
4	___	___	___	___	54105-67-8
5	___	___	___	___	74645-98-0

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 16:58
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 161 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1059
CALI: 14558N4R #2

BASE M/Z: 71/ 43
RIC: 5300220./14221300.

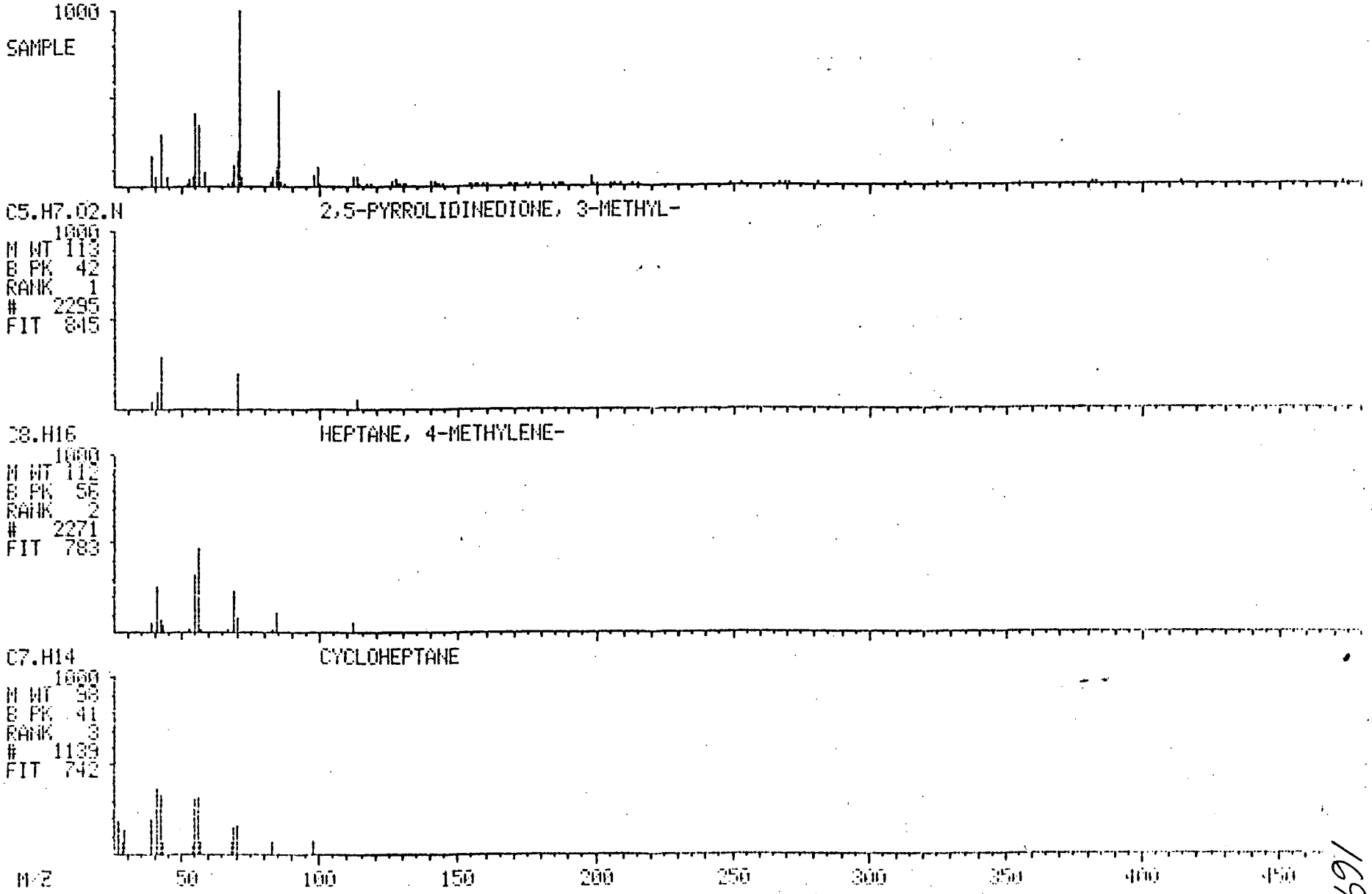


1696

MID LIBRARY SEARCH
08/25/87 22:19:00 + 16:58
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1059
CALI: 14558N4R # 2

BASE M/Z: 71
RIC: 5283830.



1692

1698

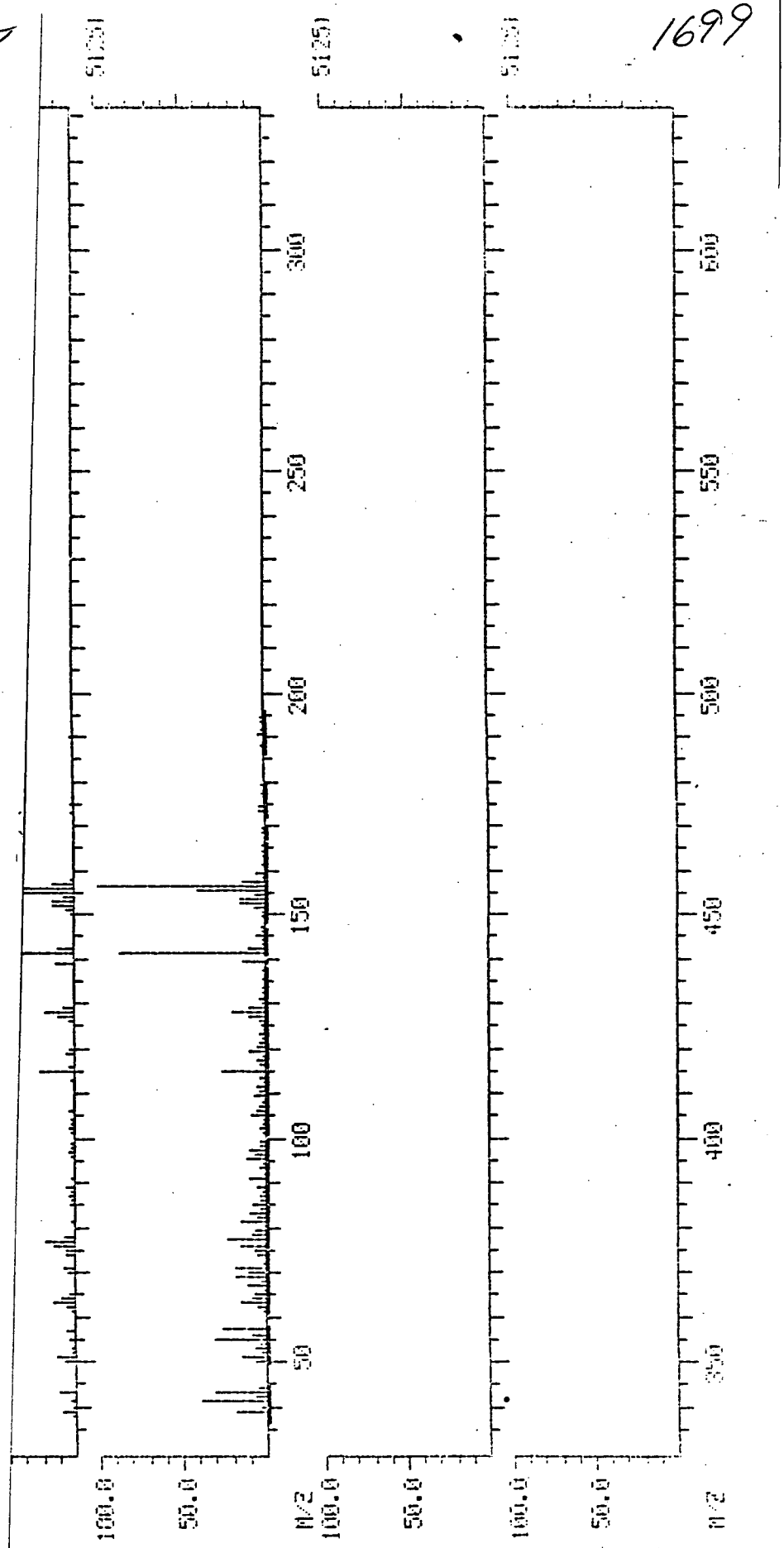
1059 Base m/z: 71
2 RIC: 5283830.

INJECTION

Pk	Purity	Fit	RFit
42	106	845	120
56	270	783	308
[illegible]	234	742	310
55	247	735	318
56	510	723	529

Par. 2	C. A. S. #
	5615-90-7
	15918-08-8
	291-64-5
	930-89-2
	22058-71-5

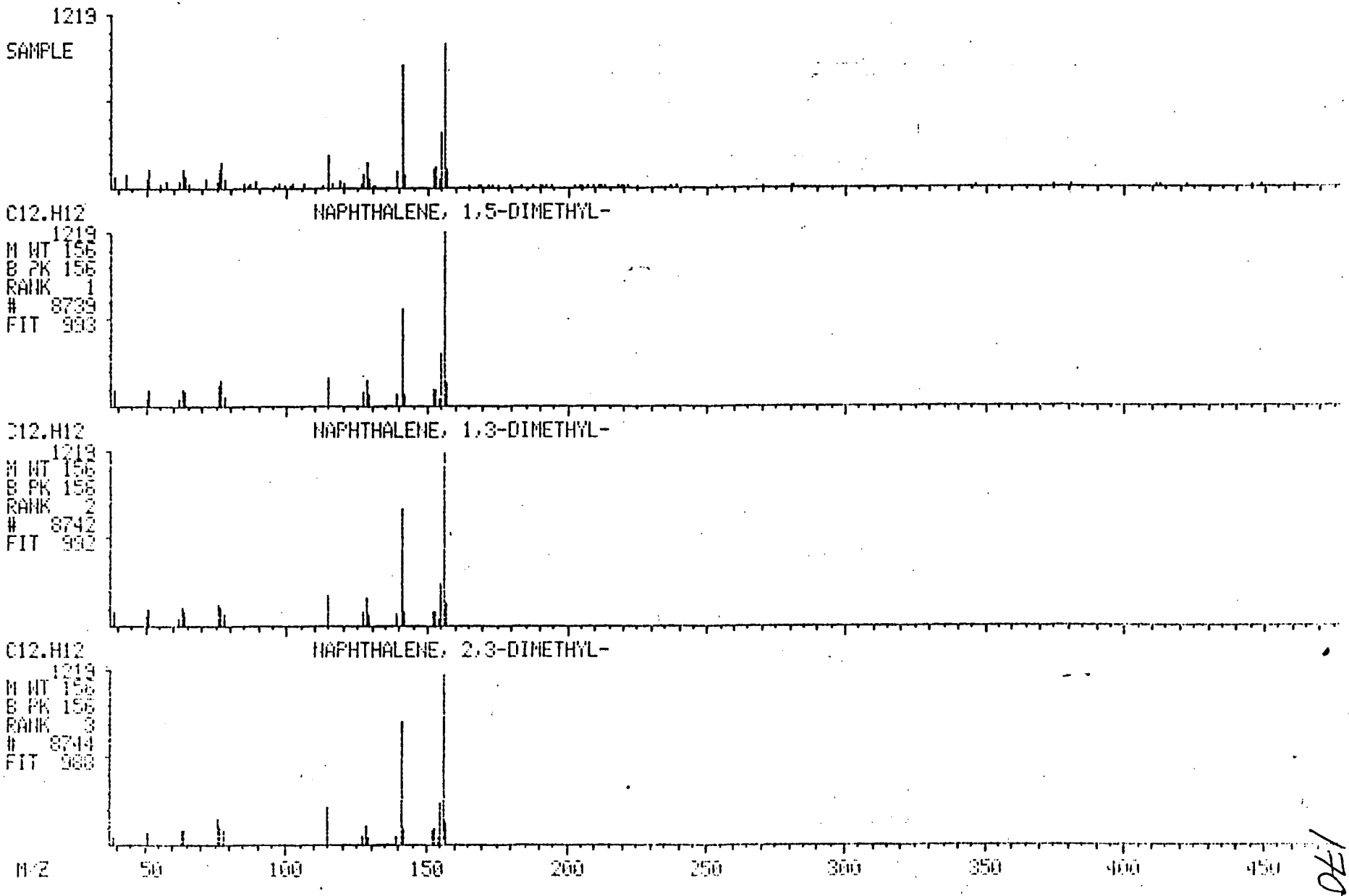
1699



MID LIBRARY SEARCH
08/25/87 22:19:00 + 17:20
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558NNR #1082
CALI: 14558N4R # 2

BASE M/Z: 156
RIC: 2617340.



2041

MID Library Search Data: 14558N4R #1082 Base m/z: 156
08/25/87 22:19:00 + 17:20 Cali: 14558N4R # 2 RIC: 2617340.
Sample: 14558-4
Conds: 10 350MS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (8 15B 2N 0T)

Rank	In.	Name
1	8739	NAPHTHALENE, 1,5-DIMETHYL-
2	8742	NAPHTHALENE, 1,2-DIMETHYL-
3	8744	NAPHTHALENE, 2,3-DIMETHYL-
4	8746	NAPHTHALENE, 2,7-DIMETHYL-
5	8741	NAPHTHALENE, 1,7-DIMETHYL-

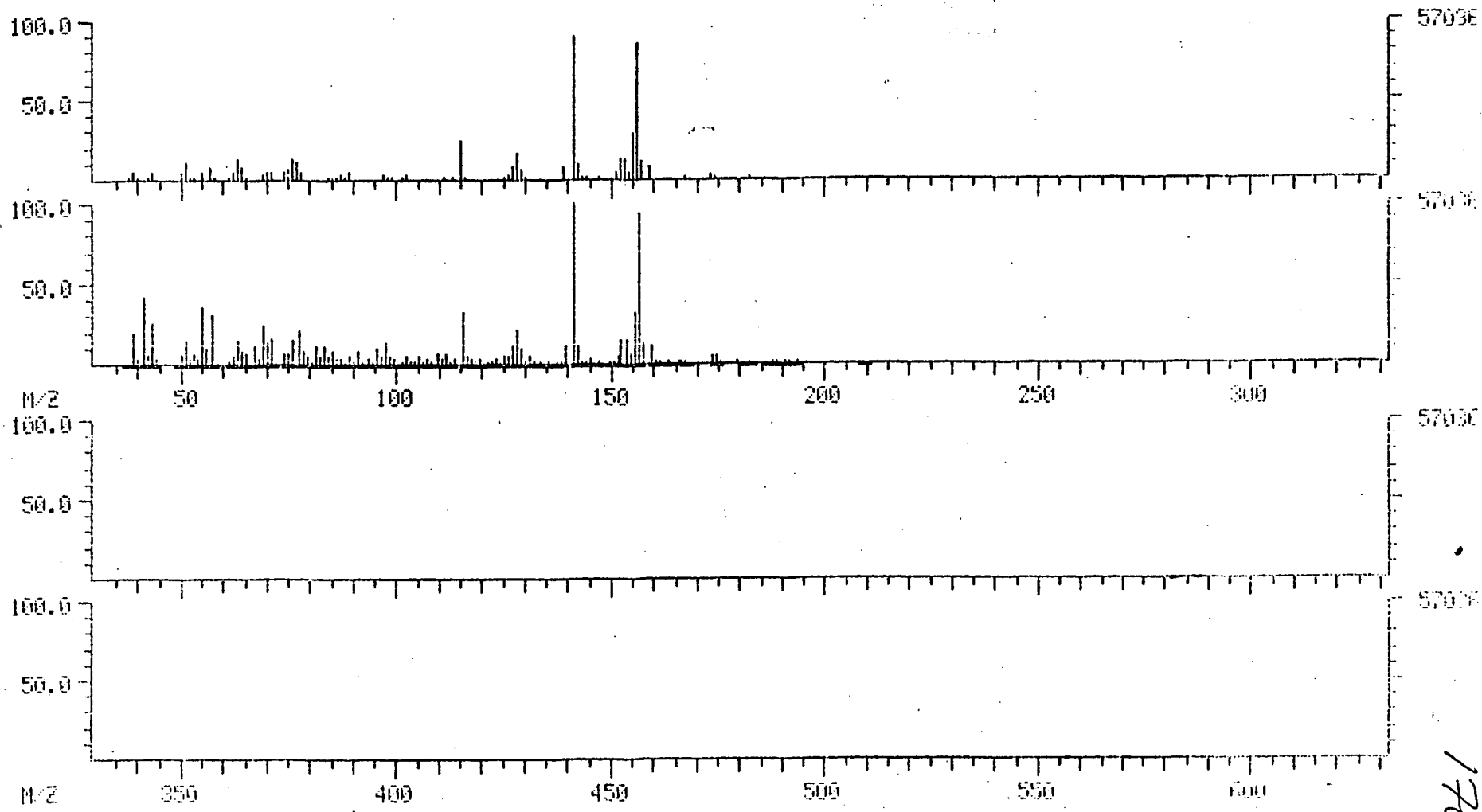
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H12	156	156	868	993	868
2	C12.H12	156	156	867	992	867
3	C12.H12	156	156	854	988	854
4	C12.H12	156	156	862	986	862
5	C12.H12	156	156	853	985	861

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	571-61-9
2	___	___	___	___	575-41-7
3	___	___	___	___	581-40-8
4	___	___	___	___	582-16-1
5	___	___	___	___	575-37-1

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 17:36
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 166 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1099
CALI: 14558N4R #2

BASE M/Z: 141/ 141
RIC: 2977790./ 5775350.

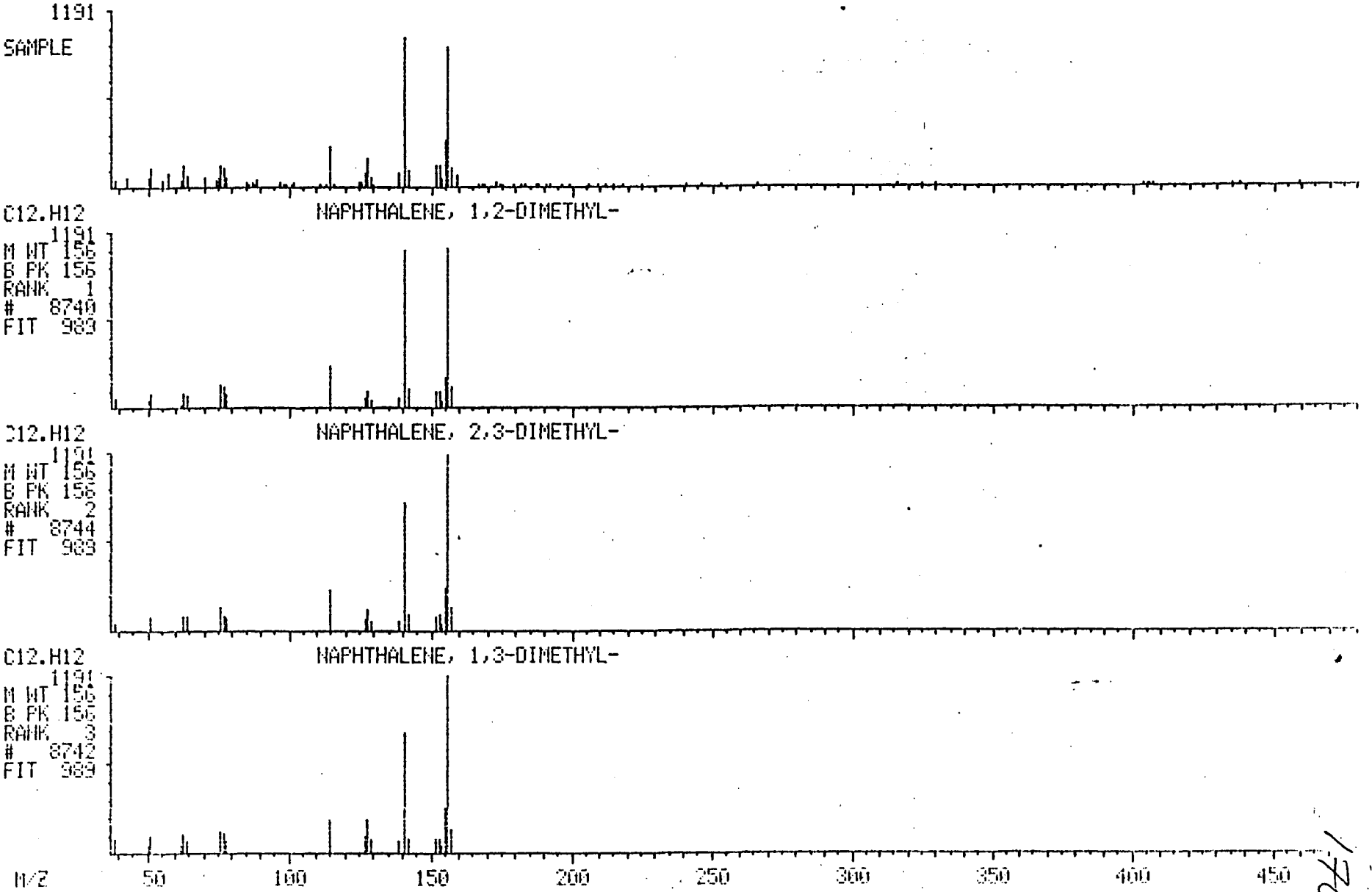


170.

MID LIBRARY SEARCH
08/25/87 22:19:00 + 17:36
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1099
CALI: 14558N4R # 2

BASE M/Z: 141
RIC: 2768890.



1703

MID Library Search Data: 14558N4R #1099 Base m/z: 141
08/25/87 22:19:00 + 17:36 Cali: 14558N4R # 2 RIC: 2768890.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

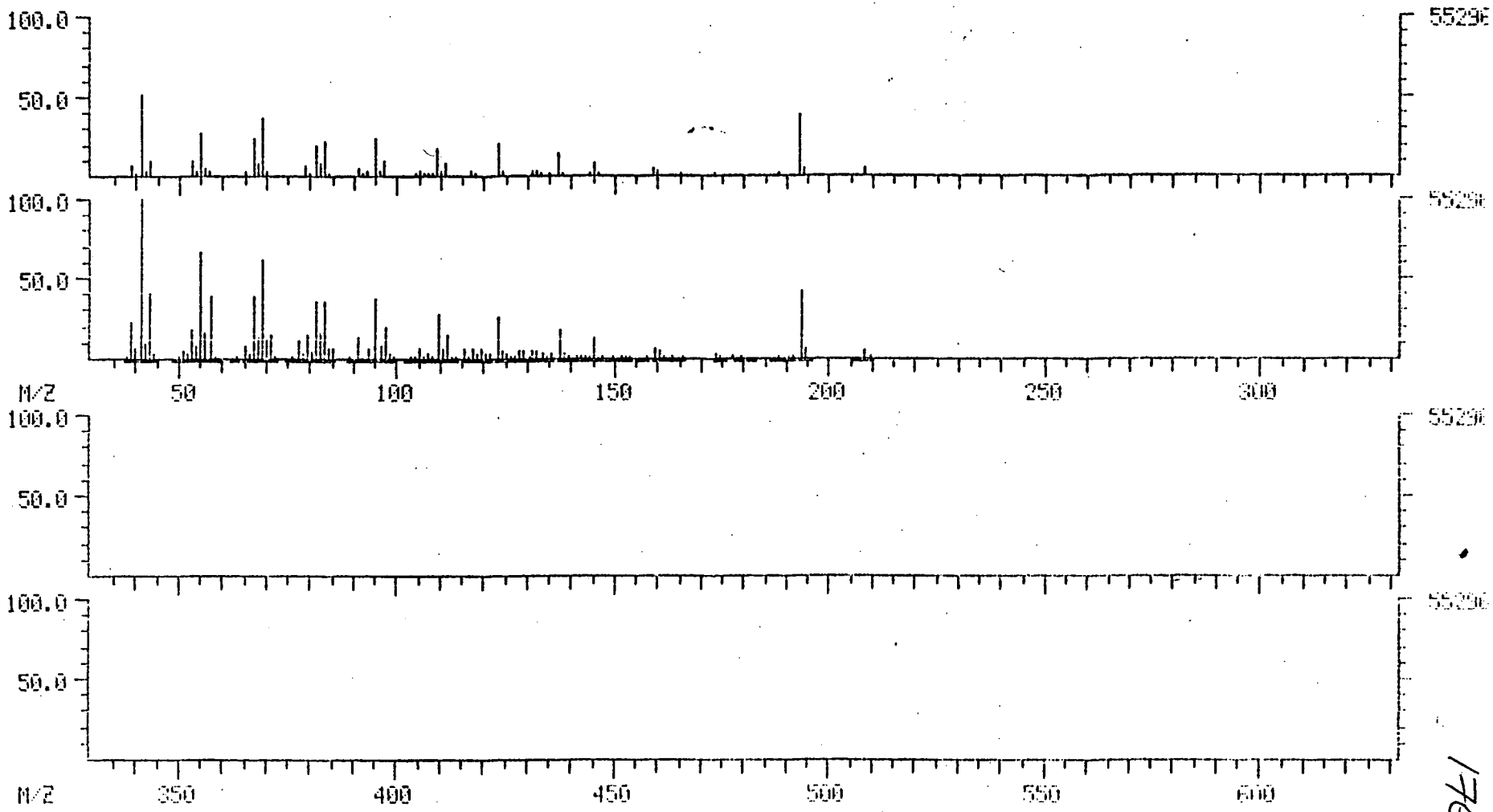
Rank	In.	Name
1	8740	NAPHTHALENE, 1,2-DIMETHYL-
2	8744	NAPHTHALENE, 2,3-DIMETHYL-
3	8742	NAPHTHALENE, 1,3-DIMETHYL-
4	8739	NAPHTHALENE, 1,5-DIMETHYL-
5	8738	NAPHTHALENE, 1,4-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H12	156	156	845	989	845
2	C12.H12	156	156	836	989	836
3	C12.H12	156	156	845	989	845
4	C12.H12	156	156	839	982	839
5	C12.H12	156	156	827	982	834

Rank	Ret.Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	573-98-8
2	___	___	___	___	581-40-8
3	___	___	___	___	575-41-7
4	___	___	___	___	571-61-9
5	___	___	___	___	571-58-4

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 17:44
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 167 DEG. C
ENHANCED (S 15B 2N 0T)

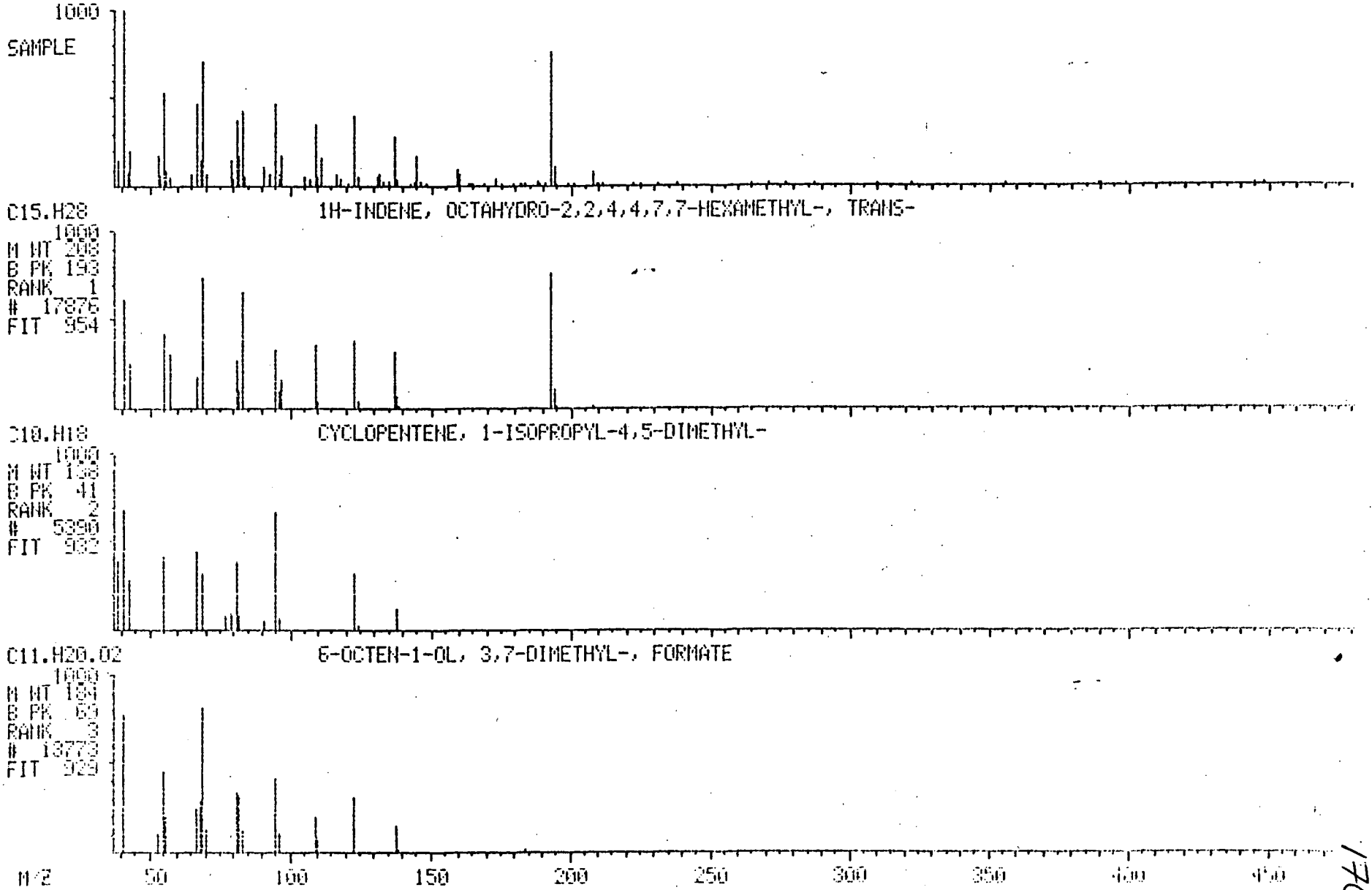
DATA: 14558N4R #1107 BASE M/Z: 41/ 41
CALI: 14558N4R #2 RIC: 2625530./ 5726200.



1705

MID LIBRARY SEARCH
08/25/87 22:19:00 + 17:44
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1107 BASE M/Z: 41
CALI: 14558N4R # 2 RIC: 2568190.



1706

MID Library Search Data: 14558N4R #1107 Base m/z: 41
08/25/87 22:19:00 - 17:44 Cali: 14558N4R # 2 RIC: 2568190.
Sample 14558-4
Conds 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B EN OT)

Rank	In.	Name
1	17976	1H-INDENE, OCTAHYDRO-2,2,4,4,7,7-HEXAMETHYL-, TRANS-
2	8340	CYCLOPENTENE, 1-ISOPROPYL-4,5-DIMETHYL-
3	13770	6-OCTEN-1-OL, 3,7-DIMETHYL-, FORMATE
4	8405	PROPANE, 2-(2-ISOPROPYLIDENE-3-METHYLCYCLOPROPYL)-, TRANS-
5	18942	CYCLODECENE, 3-BROMO-

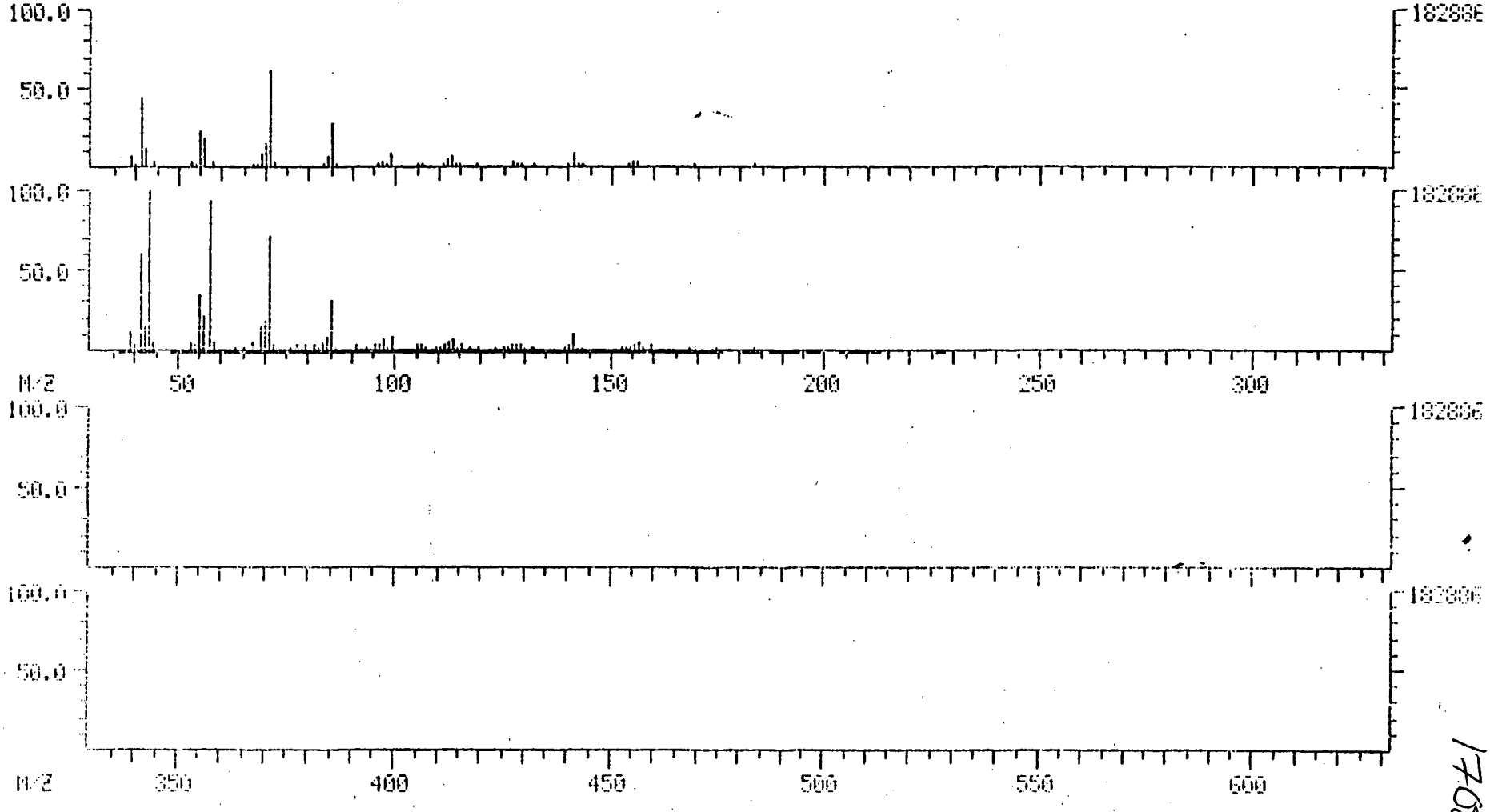
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H28	208	193	700	954	702
2	C10.H18	138	41	365	932	372
3	C11.H20.O2	184	69	436	929	440
4	C10.H18	138	67	353	928	360
5	C10.H17.BR	216	81	342	918	351

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	----	----	----	----	54832-83-6
2	----	----	----	----	7712-74-5
3	----	----	----	----	105-85-1
4	----	----	----	----	24524-51-4
5	----	----	----	----	56325-56-5

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 18:01
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 169 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1125
CALI: 14558N4R #2

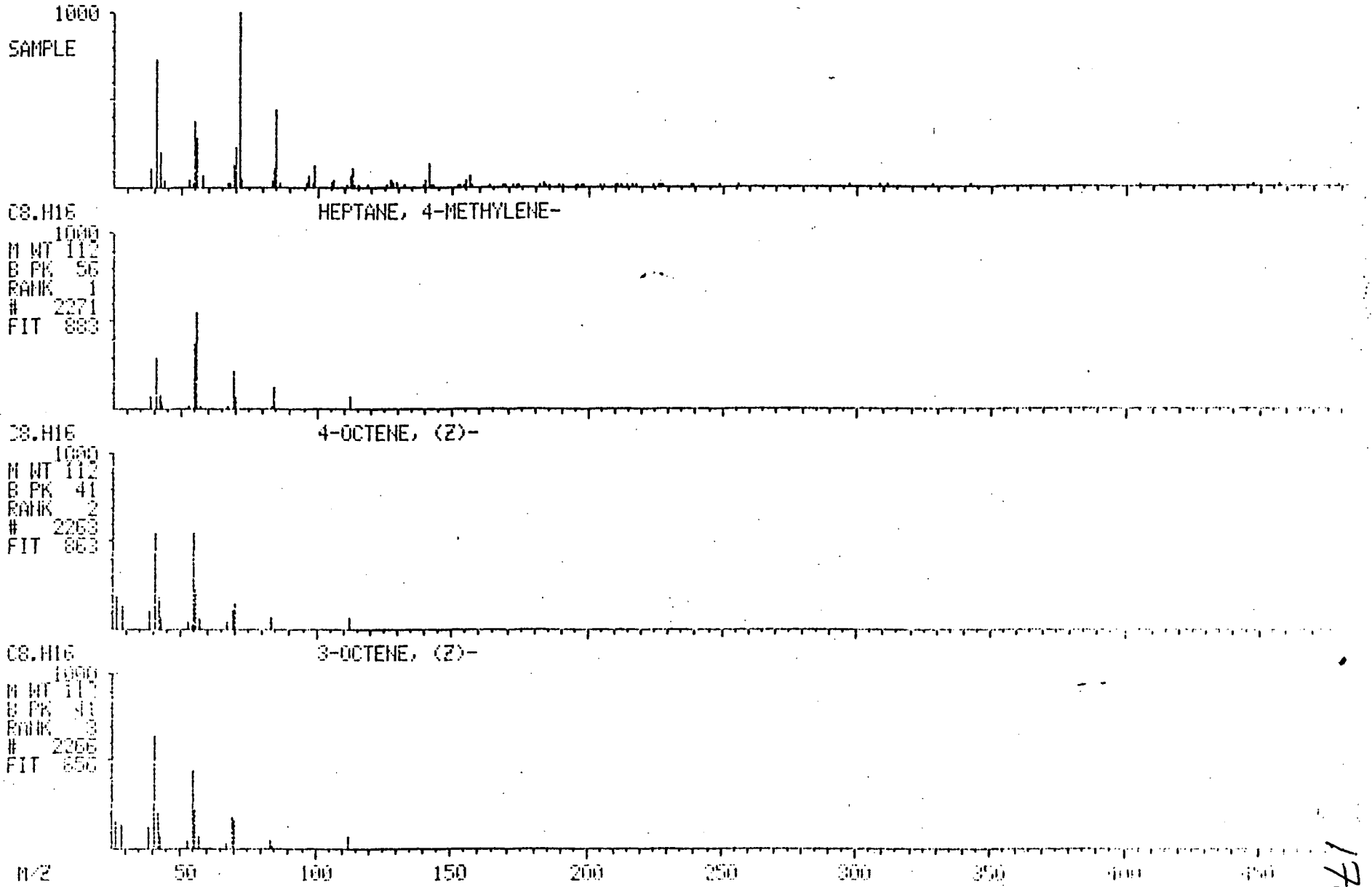
BASE M/Z: 71/ 43
RIC: 5898230./12140500.



1408

MID LIBRARY SEARCH
08/25/87 22:19:00 + 18:01
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1125 BASE M/Z: 71
CALI: 14558N4R # 2 RIC: 5668860.



1709

MID Library Search Data: 14558N4R #1125 Base m/z: 71
08/24/87 22:19:00 - 18:01 Cal: 14558N4R # 2 RIC: 5666860.
Sample: 14558-4
Conc: 10.2696MG.1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (E 158 EN OT)

Rank	In.	Name
1	2271	HEPTANE 4-METHYLENE-
2	2252	4-OCTENE, (Z)-
3	2266	3-OCTENE, (Z)-
4	2251	CYCLOHEPTANE, METHYL-
5	5998	2,5-PYRROLIDINEDIONE, 3-ETHYL-4-METHYL-

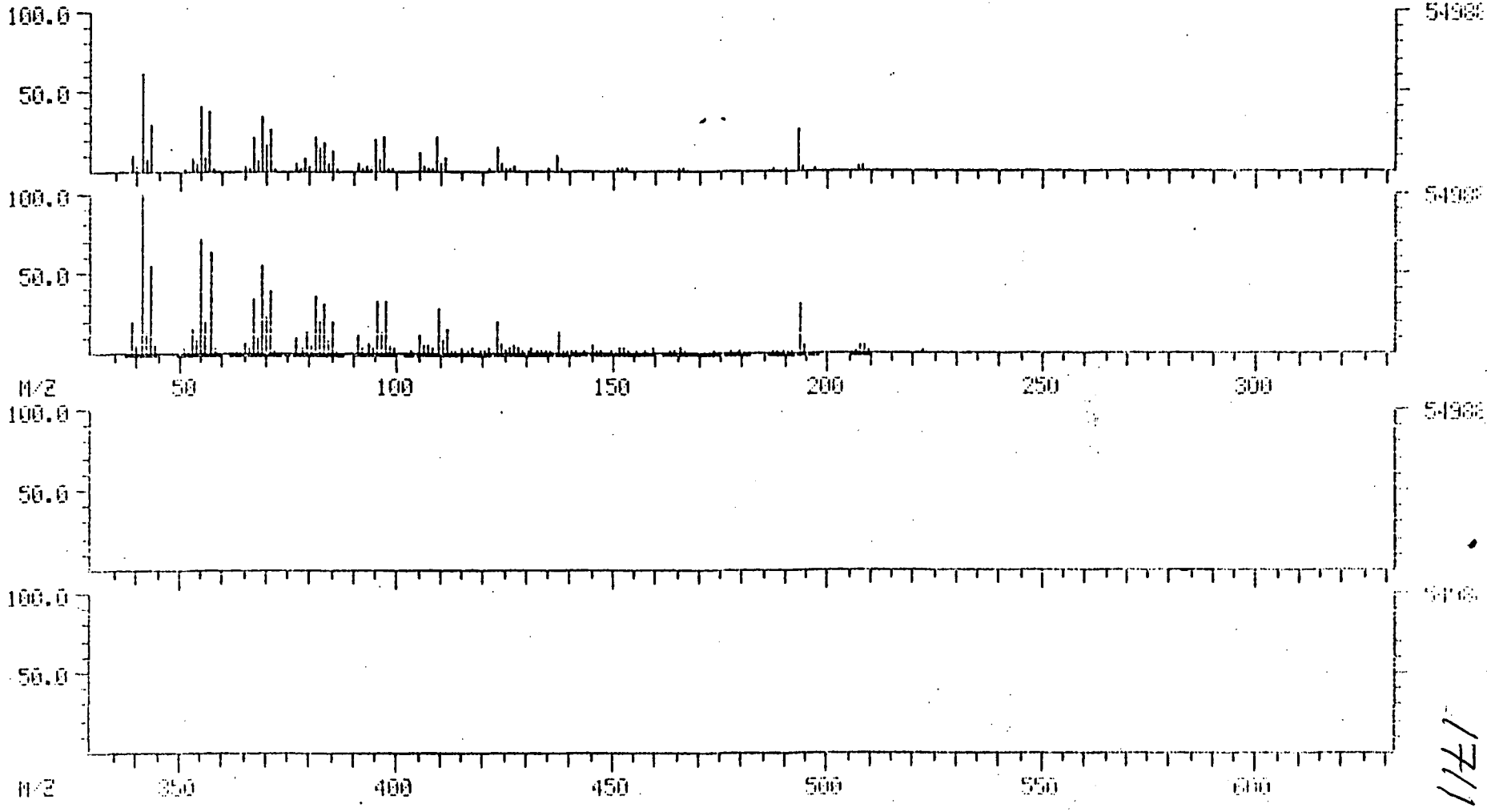
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H16	112	56	282	883	289
2	C8.H16	112	41	260	863	294
3	C8.H16	112	41	274	856	309
4	C8.H16	112	55	286	841	304
5	C7.H11.O2.N	141	70	260	836	260

Rank	Ret.Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	15918-08-8
2	___	___	___	___	7642-15-1
3	___	___	___	___	14850-22-7
4	___	___	___	___	4126-78-7
5	___	___	___	___	58501-92-1

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 18:20
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 172 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1145
CALI: 14558N4R #2

BASE M/Z: 41/ 41
RIC: 3477500./ 5922810.

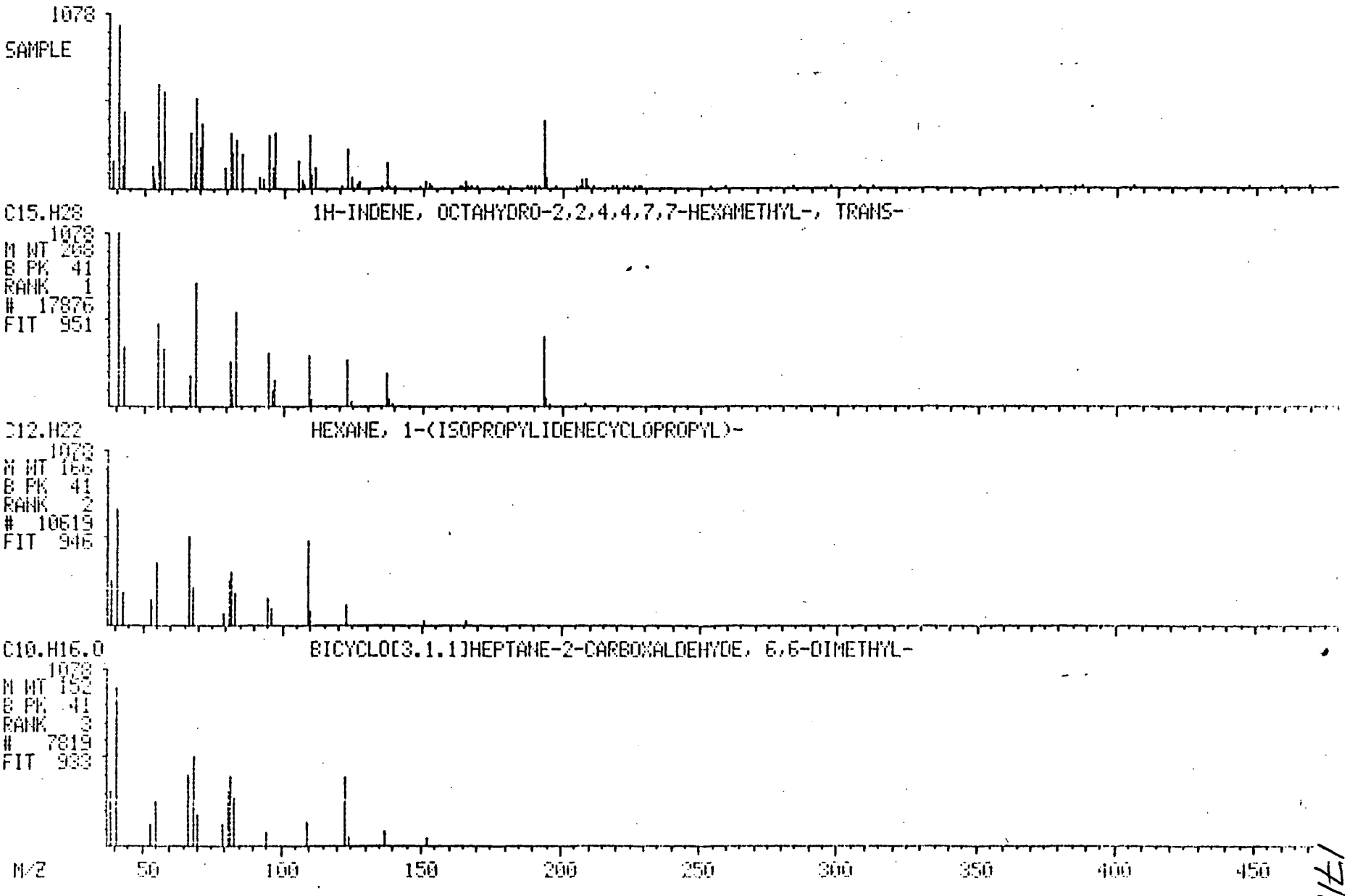


171

MIO LIBRARY SEARCH
08/25/87 22:19:00 + 18:20
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1145
CALI: 14558N4R # 2

BASE M/Z: 41
RIC: 3252220.



1/2

MID Library Search Data: 14556N4R #1145 Base m/z: 41
08/25/87 22:19:00 + 18:20 Cali: 14556N4R # 2 RIC: 3252220.
Sample: 14368-4
Conds.: 10.356MG/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	17876	1H-INDENE, OCTAHYDRO-2,2,4,4,7,7-HEXAMETHYL-, TRANS-
2	10619	HEXANE, 1-(ISOPROPYLIDENECYCLOPROPYL)-
3	7819	BICYCLO[3.1.1]HEPTANE-2-CARBOXALDEHYDE, 6,6-DIMETHYL-
4	2646	6-OCTEN-1-OL, 3,7-DIMETHYL-
5	23953	DODECANE 6-CYCLOHEXYL-, 6-CYCLOHEXYL-

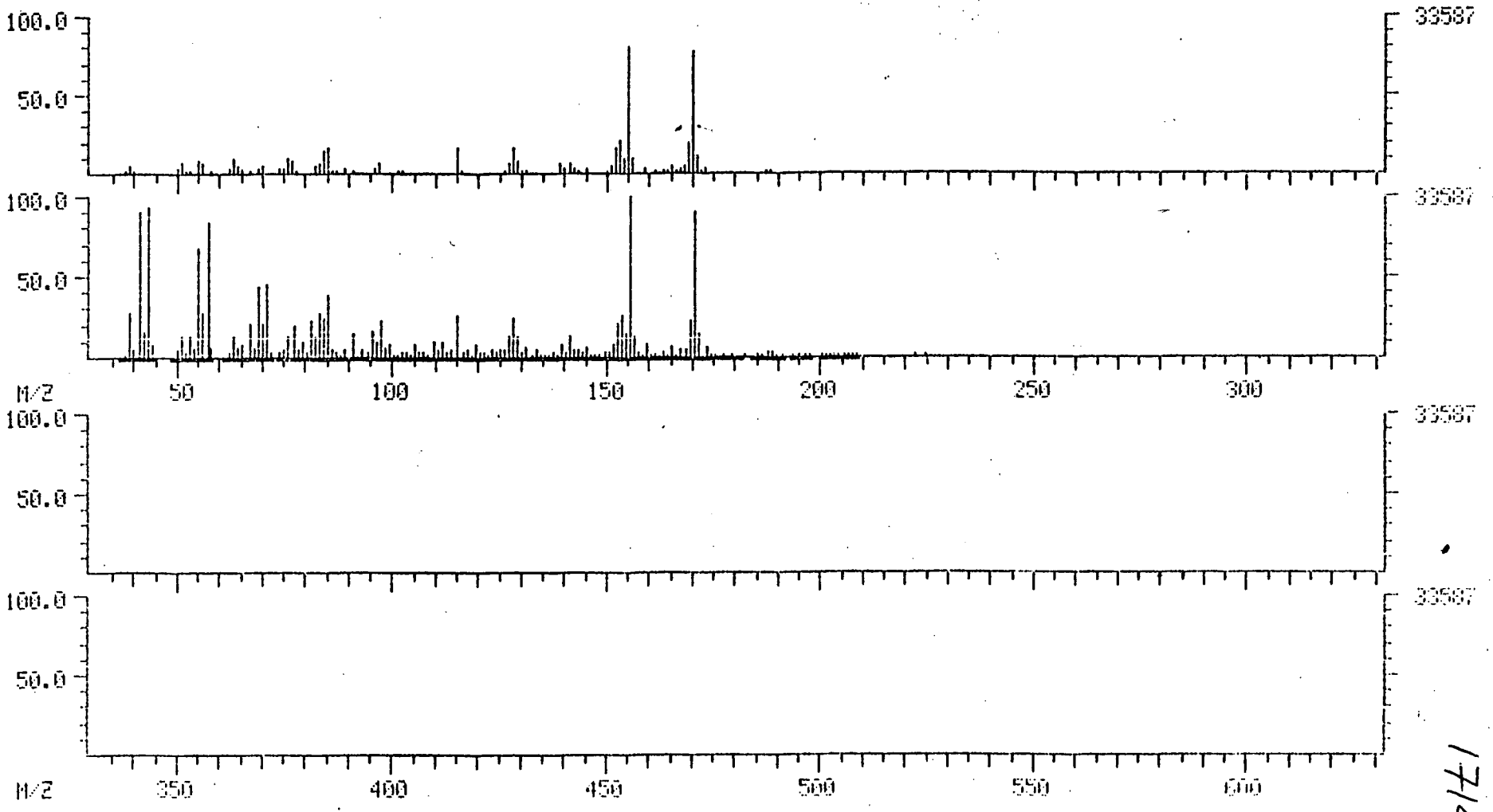
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H28	208	41	653	951	656
2	C12.H22	166	41	408	946	408
3	C10.H16.O	152	41	442	933	442
4	C10.H20.O	156	41	446	931	457
5	C18.H36	252	57	412	930	420

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	54832-83-6
2	___	___	___	___	24524-53-6
3	___	___	___	___	4764-14-1
4	___	___	___	___	106-22-9
5	___	___	___	___	13151-86-5

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 19:28
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 181 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1216
CALI: 14558N4R #2

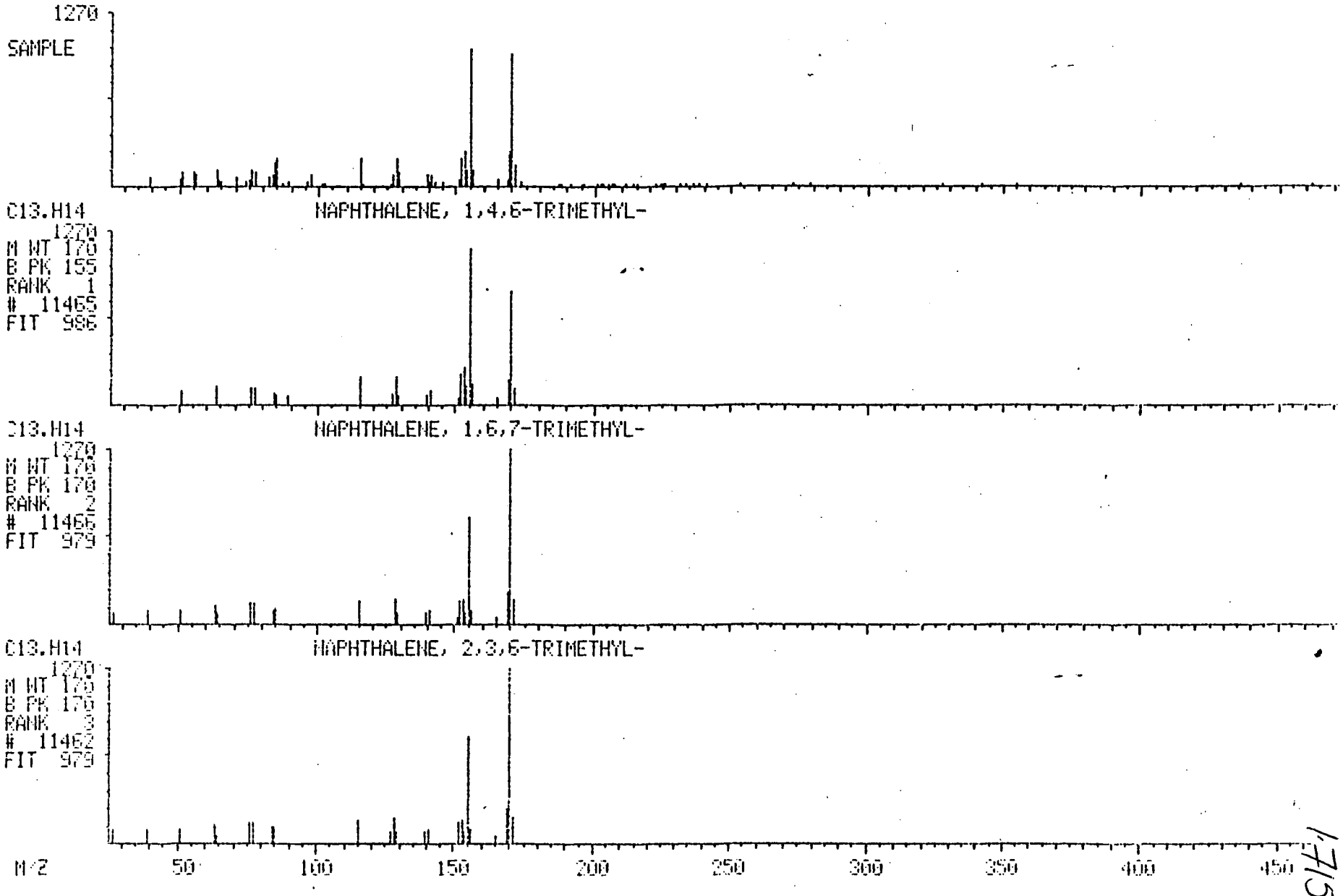
BASE M/Z: 155/ 155
RIC: 1765370./ 5332990.



MID LIBRARY SEARCH
08/25/87 22:19:00 + 19:28
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1216
CALI: 14558N4R # 2

BASE M/Z: 155
RIC: 1607670.



1715

MID Library Search Data: 14558N4R #1216 Base m/z: 155
08/25/87 22:19:00 + 19:28 Cali: 14558N4R # 2 RIC: 1607670.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (8 15B 2N OT)

Rank	In.	Name
1	11465	NAPHTHALENE, 1,4,6-TRIMETHYL-
2	11466	NAPHTHALENE, 1,6,7-TRIMETHYL-
3	11462	NAPHTHALENE, 2,3,6-TRIMETHYL-
4	11467	NAPHTHALENE, 1,3,6-TRIMETHYL-
5	11464	NAPHTHALENE, 1,4,5-TRIMETHYL-

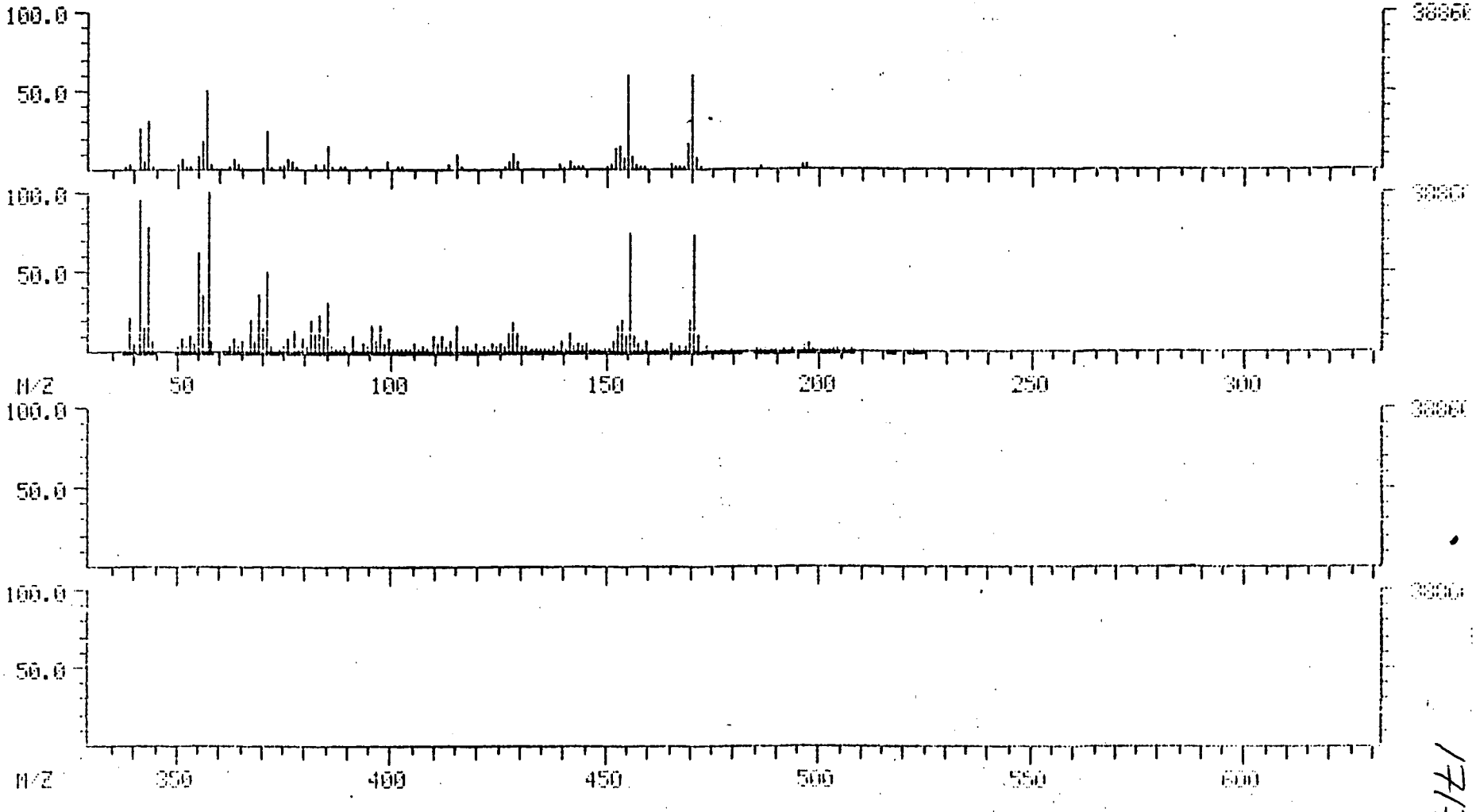
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H14	170	155	838	986	838
2	C13.H14	170	170	821	979	825
4	C13.H14	170	170	824	979	827
4	C13.H14	170	170	607	977	607
5	C13.H14	170	155	797	971	809

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	2131-42-2
2	___	___	___	___	2245-38-7
3	___	___	___	___	829-26-5
4	___	___	___	___	3031-08-1
5	___	___	___	___	2131-41-1

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 19:47
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 184 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558NAR #1235
CALI: 14558NAR #2

BASE M/Z: 170/ 57
RIC: 2011130./ 5210110.

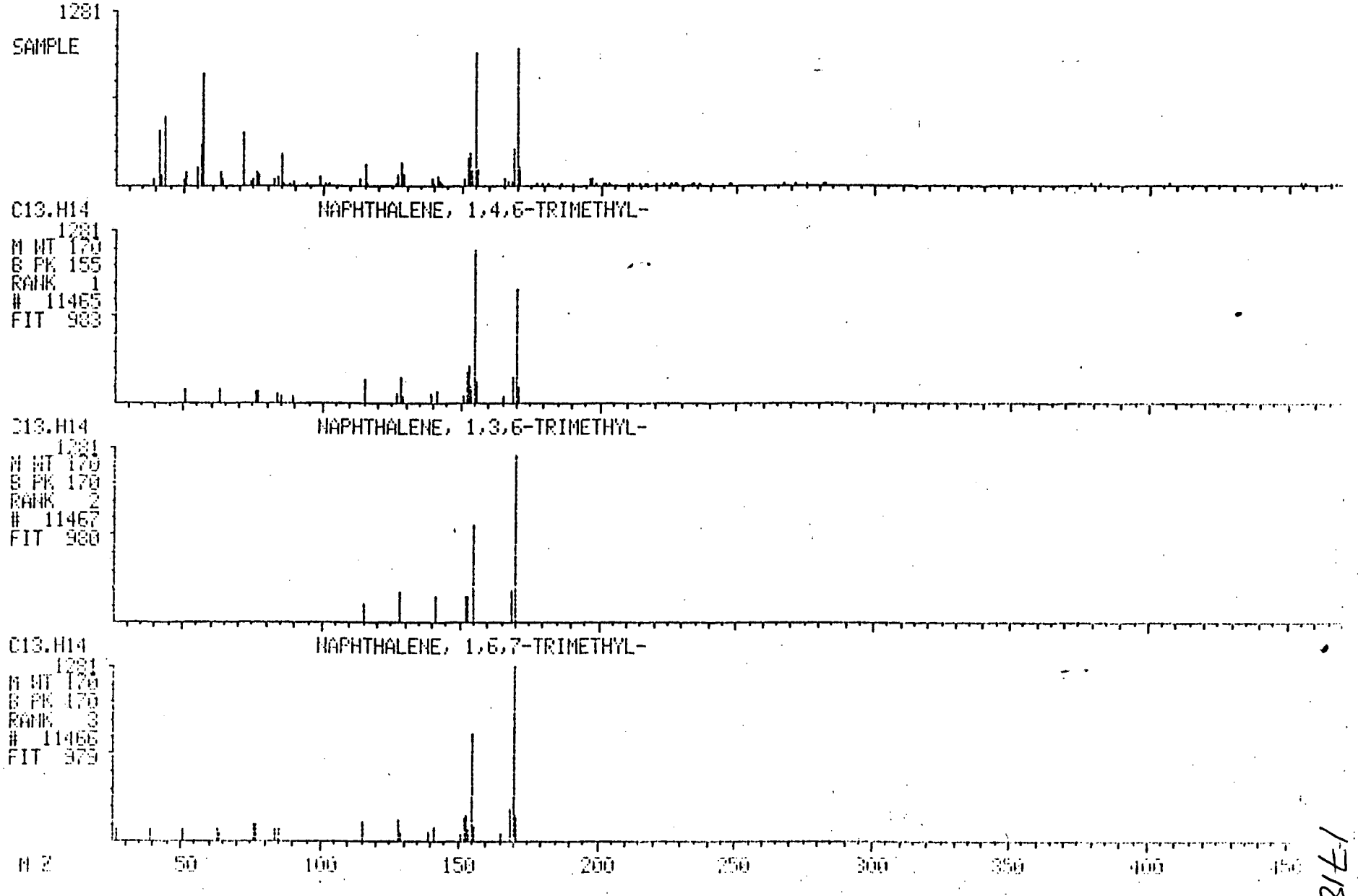


171

MID LIBRARY SEARCH
08/25/87 22:19:00 + 19:47
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1235
CALI: 14558N4R # 2

BASE M/Z: 170
RIC: 1888250.



814-1

MID Library Search Data: 14558N4R #1235 Base m/z: 170
08/25/87 22:19:00 + 19:47 Cali: 14558N4R # 2 RIC: 1888250.
Sample: 14558-4
Conds.: 10.35GME/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 153 3N OT)

Rank	In.	Name
1	11465	NAPHTHALENE, 1,4,6-TRIMETHYL-
2	11467	NAPHTHALENE, 1,3,6-TRIMETHYL-
3	11466	NAPHTHALENE, 1,6,7-TRIMETHYL-
4	11462	NAPHTHALENE, 2,3,6-TRIMETHYL-
5	11464	NAPHTHALENE, 1,4,5-TRIMETHYL-

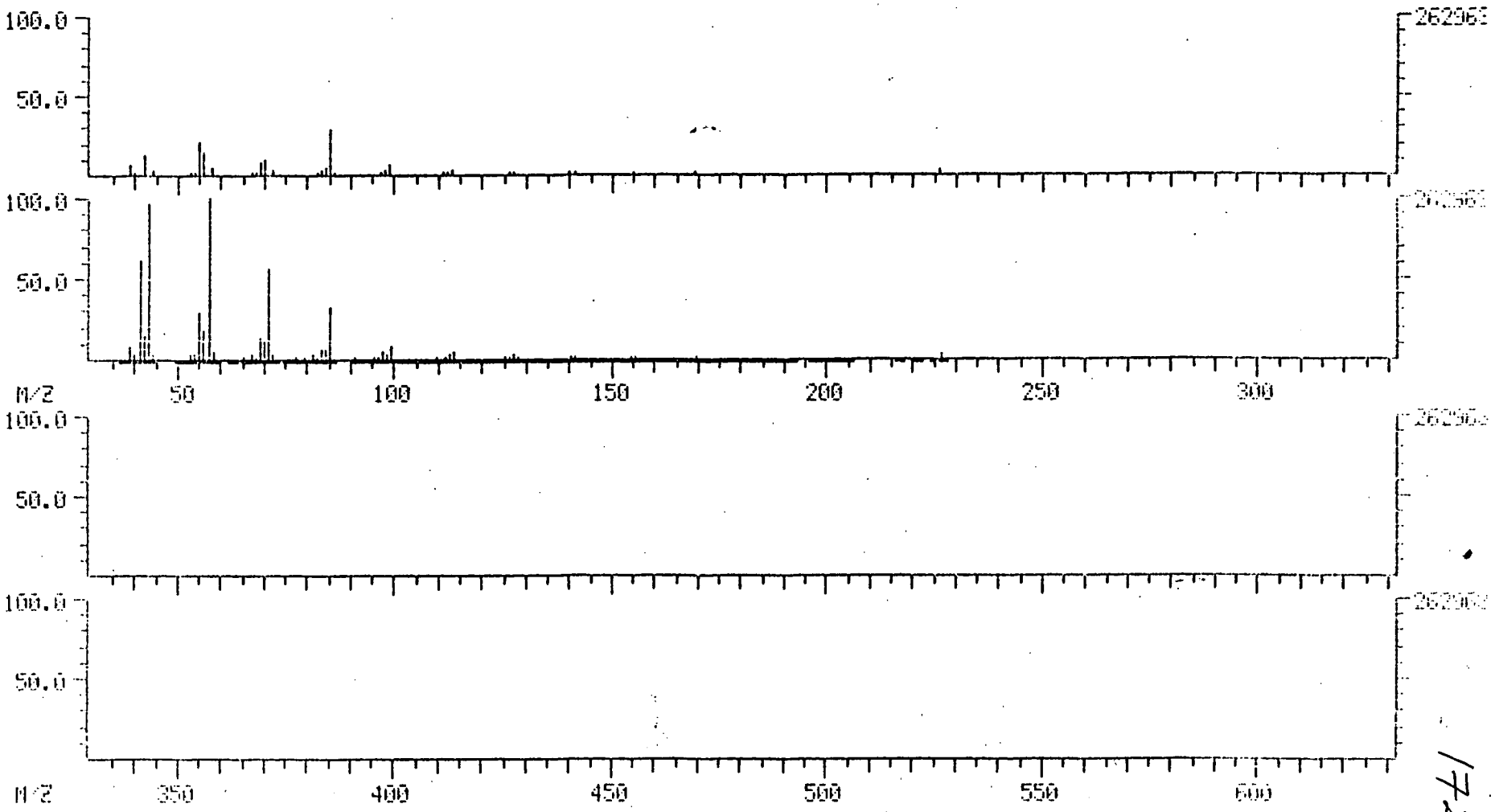
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C13.H14	170	155	710	983	710
2	C13.H14	170	170	531	980	531
3	C13.H14	170	170	699	979	701
4	C13.H14	170	170	700	979	702
5	C13.H14	170	155	676	975	682

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	2131-42-2
2	___	___	___	___	3031-08-1
3	___	___	___	___	2245-38-7
4	___	___	___	___	829-26-5
5	___	___	___	___	2131-41-1

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 20:14
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 187 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1263
CALI: 14558N4R #2

BASE M/Z: 85/ 57
RIC: 4456440./14811100.

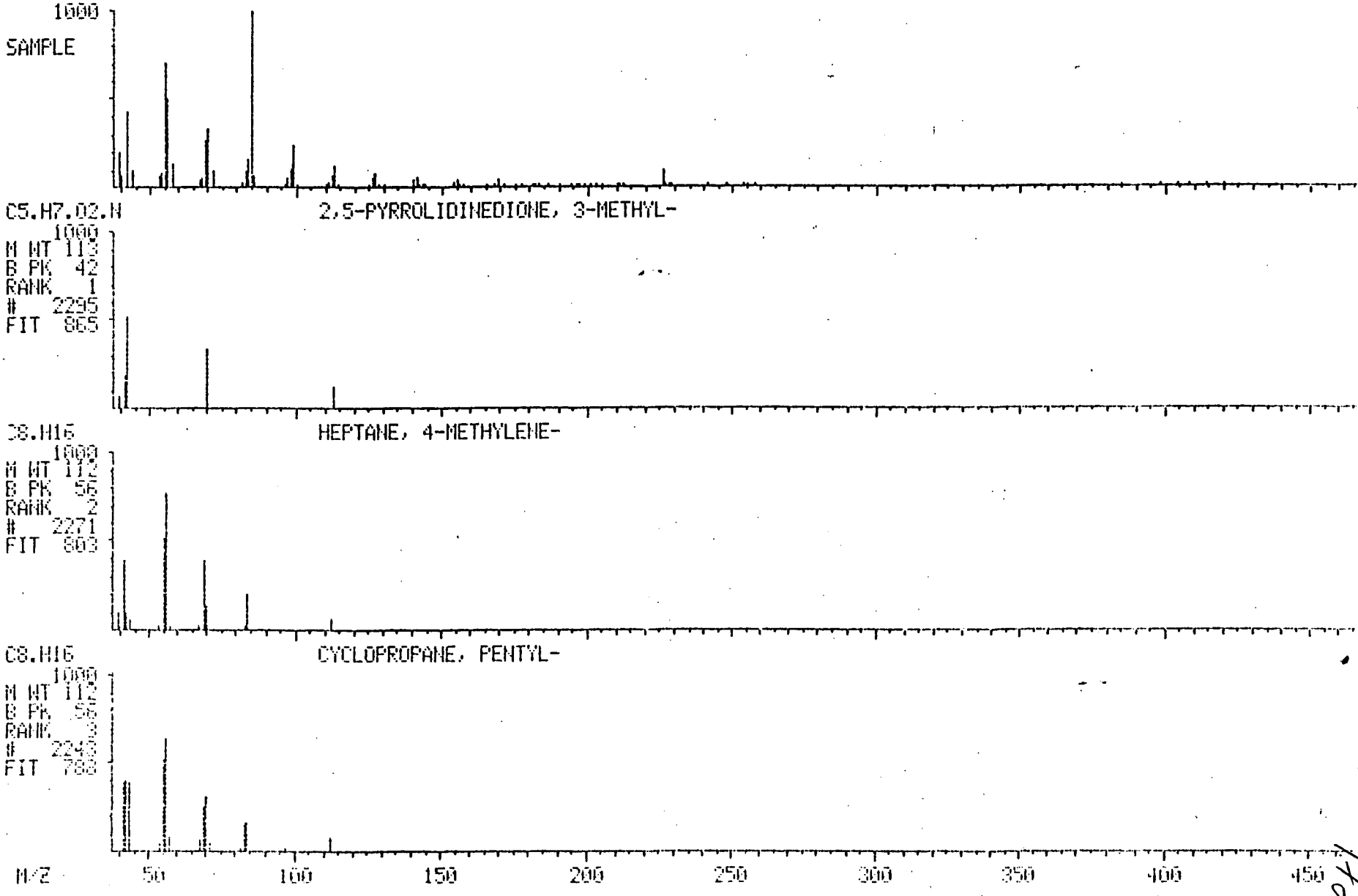


1720

MID LIBRARY SEARCH
08/25/87 22:19:00 + 20:14
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1263
CALI: 14558N4R # 2

BASE M/Z: 85
RIC: 4423670.



1241

MID Library Search — Data: 14558N4R #1263 — Base m/z: 85
08/28/87 22:19:00 + 20:14 — Cali: 14558N4R # 2 — RIC: 4423670.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	2295	2,5-PYRROLIDINEDIONE, 3-METHYL-
2	2271	HEPTANE, 4-METHYLENE-
3	2243	CYCLOPROPANE, PENTYL-
4	2117	1H-1,3-DIAZEPINE, 4,5,6,7-TETRAHYDRO-2-METHYL-
5	2205	CYCLOBUTANONE, 2,3,3-TRIMETHYL-

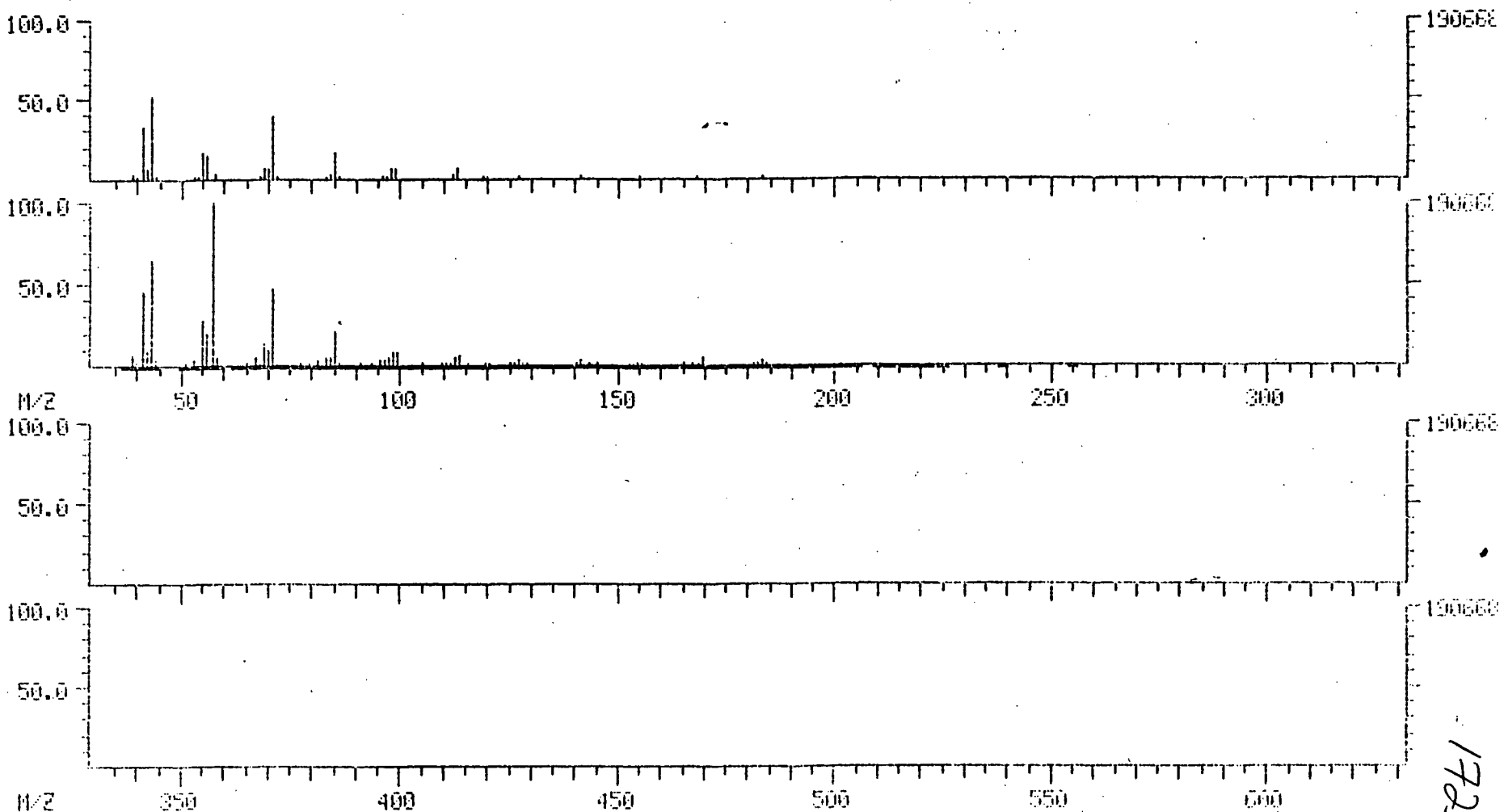
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C5.H7.O2.N	113	42	120	865	135
2	C8.H16	112	56	309	803	350
3	C8.H16	112	56	300	788	371
4	C6.H12.N2	112	55	268	778	273
5	C7.H12.O	112	55	252	777	303

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	5615-90-7
2	___	___	___	___	15918-08-8
3	___	___	___	___	2511-91-3
4	___	___	___	___	18237-68-8
5	___	___	___	___	28290-01-9

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 20:59
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 194 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558NAR #1310
CALI: 14558NAR #2

BASE M/Z: 43/ 57
RIC: 4898810./10010600.

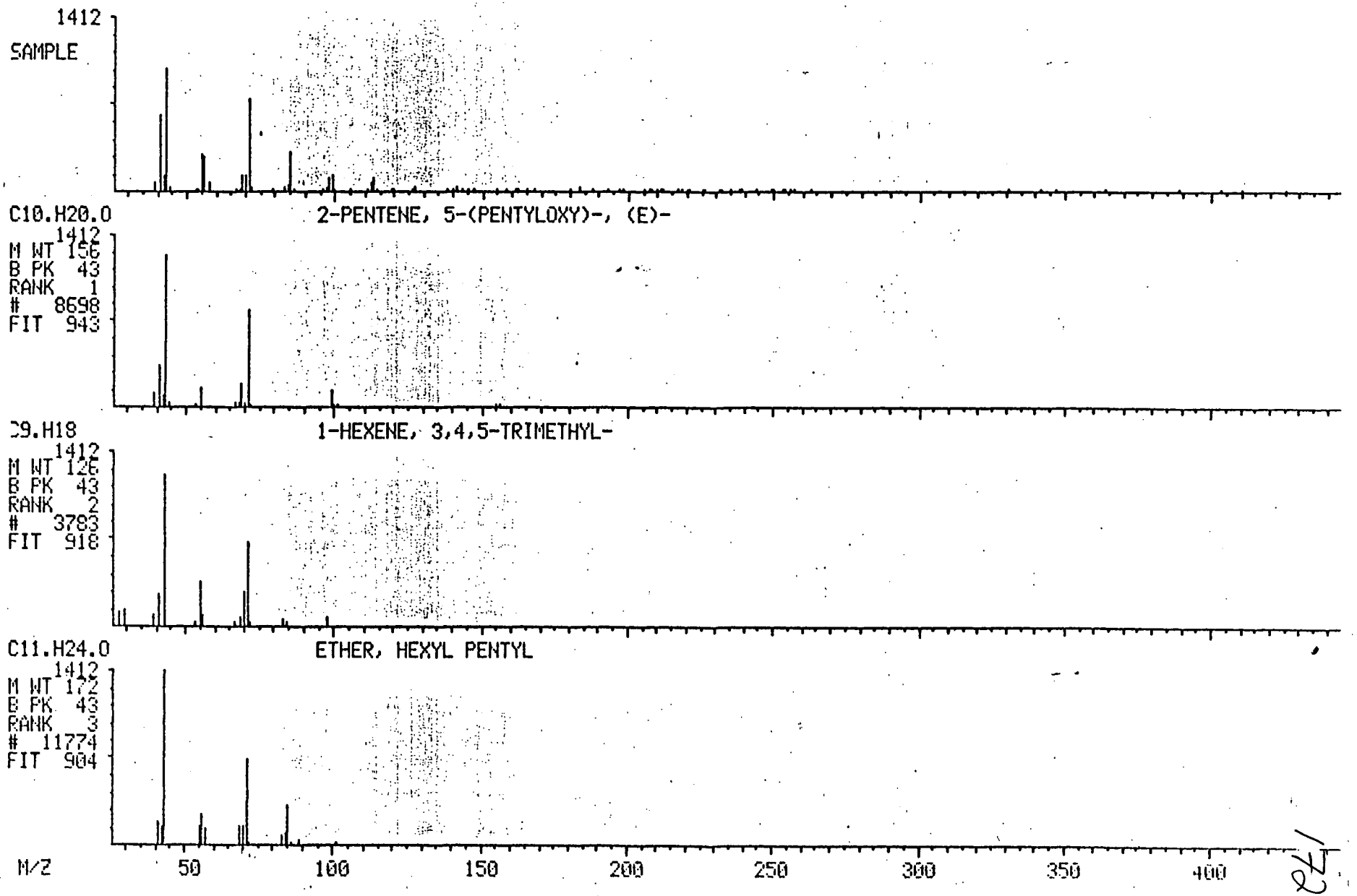


1723

MID LIBRARY SEARCH
08/25/87 22:19:00 + 20:59
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1310
CALI: 14558N4R # 2

BASE M/Z: 43
RIC: 4857850.



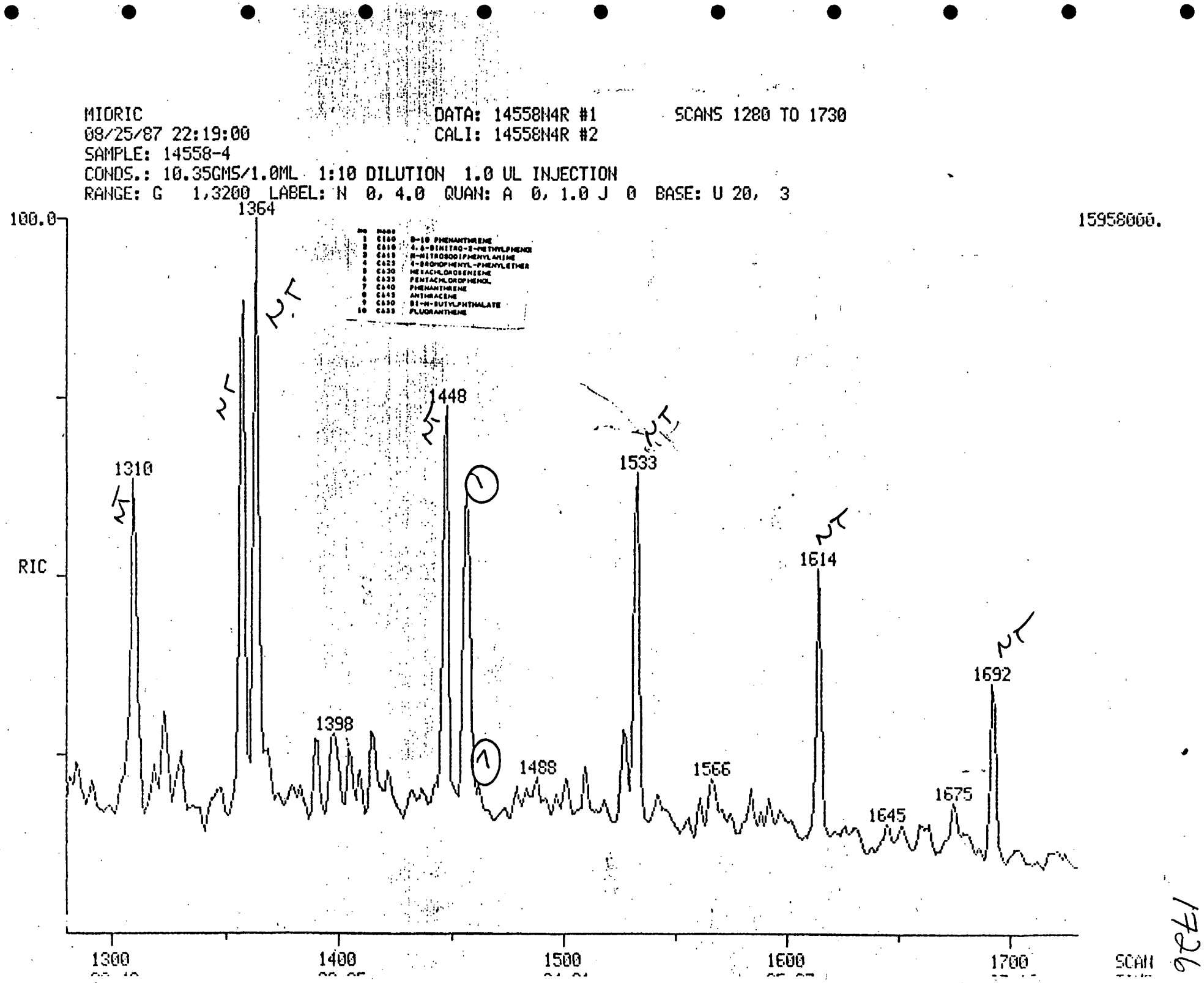
1284

MID Library Search Data: 14558N4R #1310 Base m/z: 43
08/25/87 22:19:00 + 20:59 Cali: 14558N4R # 2 RIC: 4857850.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	8698	2-PENTENE, 5-(PENTYLOXY)-, (E)-
2	3783	1-HEXENE, 3,4,5-TRIMETHYL-
3	11774	ETHER, HEXYL PENTYL
4	1563	HYDROXYLAMINE, O-(3-METHYLBUTYL)-
5	1126	CYCLOBUTANONE, 2,3-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H20.O	156	43	525	943	527
2	C9.H18	126	43	537	918	556
3	C11.H24.O	172	43	576	904	610
4	C5.H13.O.N	103	43	481	900	514
5	C6.H10.O	98	56	215	857	215

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	56052-85-8
2	___	___	___	___	56728-10-0
3	___	___	___	___	32357-83-8
4	___	___	___	___	19411-65-5
5	___	___	___	___	38559-13-6


MIORIC
08/25/87 22:19:00
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
DATA: 14558N4R #1
CALI: 14558N4R #2
SCANS 1280 TO 1730
100.0
15958000.
RIC
1364
1448
1310
1533
1614
1692
1398
1488
1566
1645
1675
1300
1400
1500
1600
1700
SCAN

Quantitation Report File: 14558N4R

Data: 14558N4R.TI
08/25/87 22:19:00
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558N4R

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

No	Name		
1	C160	D-10 PHENANTHRENE	(INT. STD.)
2	C610	4,6-DINITRO-2-METHYLPHENOL	
3	C615	N-NITROSODIPHENYLAMINE	*
4	C625	4-BROMOPHENYL-PHENYLETHER	
5	C630	HEXACHLOROBENZENE	
6	C635	PENTACHLOROPHENOL	*
7	C640	PHENANTHRENE	
8	C645	ANTHRACENE	
9	C650	DI-N-BUTYLPHTHALATE	
10	C655	FLUORANTHENE	*

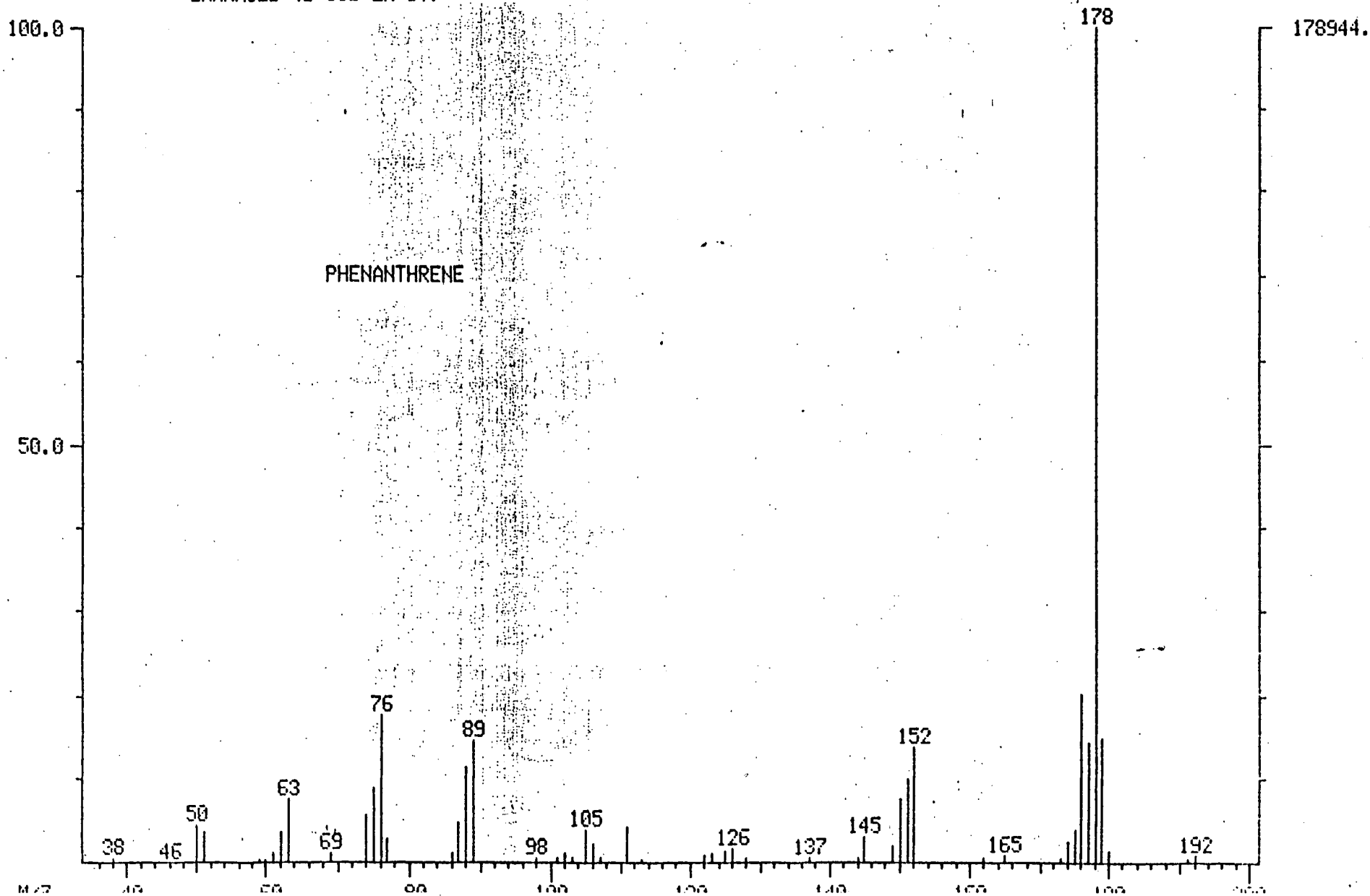
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	188	1457	23:20	1	1.000	A BV	2709860.	40.000 NG	58.08	
2	198	1294	20:43	1	0.888	A*BB	~~6240.~~	~~2.470 NG~~	~~3.59~~	NO QQQ
3	169	1304	20:53	1	0.895	A*BV	~~485906.~~	~~13.743 NG~~	19.98	No QQQ
4	248	1372	21:58	1	0.942	A*VB	~~12971.~~	~~0.856 NG~~	~~1.24~~	NO QQQ
5	NOT FOUND									
6	266	1436	23:00	1	0.986	A*BB	~~16176.~~	~~1.806 NG~~	~~2.62~~	NO QQQ
7	178	1462	23:25	1	1.003	A*BV	582712.	8.184 NG	11.88	Yes QQQ
8	178	1474	23:36	1	1.012	A VV	~~83440~~	~~1.148 NG~~	~~1.67~~	NO QQQ
9	149	1602	25:39	1	1.100	A BB	~~1756.~~	~~0.016 NG~~	~~0.02~~	NO QQQ
10	202	1721	27:34	1	1.181	A VV	~~45256.~~	~~0.627 NG~~	~~0.91~~	NO QQQ

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	23:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	20:43	1.00	0.888	1.00	2.47	50.00	0.002	0.037	0.05
3	20:50	1.00	0.893	1.00	13.76	50.00	0.143	0.521	0.28
4	21:57	1.00	0.941	1.00	0.86	50.00	0.004	0.224	0.02
5	22:23		0.960						
6	22:59	1.00	0.985	1.00	1.81	50.00	0.005	0.132	0.04
7	23:25	1.00	1.003	1.00	8.18	50.00	0.172	1.051	0.16
8	23:33	1.00	1.010	1.00	1.15	50.00	0.025	1.073	0.02
9	25:32	1.01	1.094	1.01	0.02	50.00	0.001	1.574	0.00
10	27:15	1.01	1.168	1.01	0.63	50.00	0.014	1.079	0.01

MID MASS SPECTRUM
08/25/87 22:19:00 + 23:25
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 213 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1462
CALI: 14558N4R #2

BASE M/Z: 178
RIC: 573440.

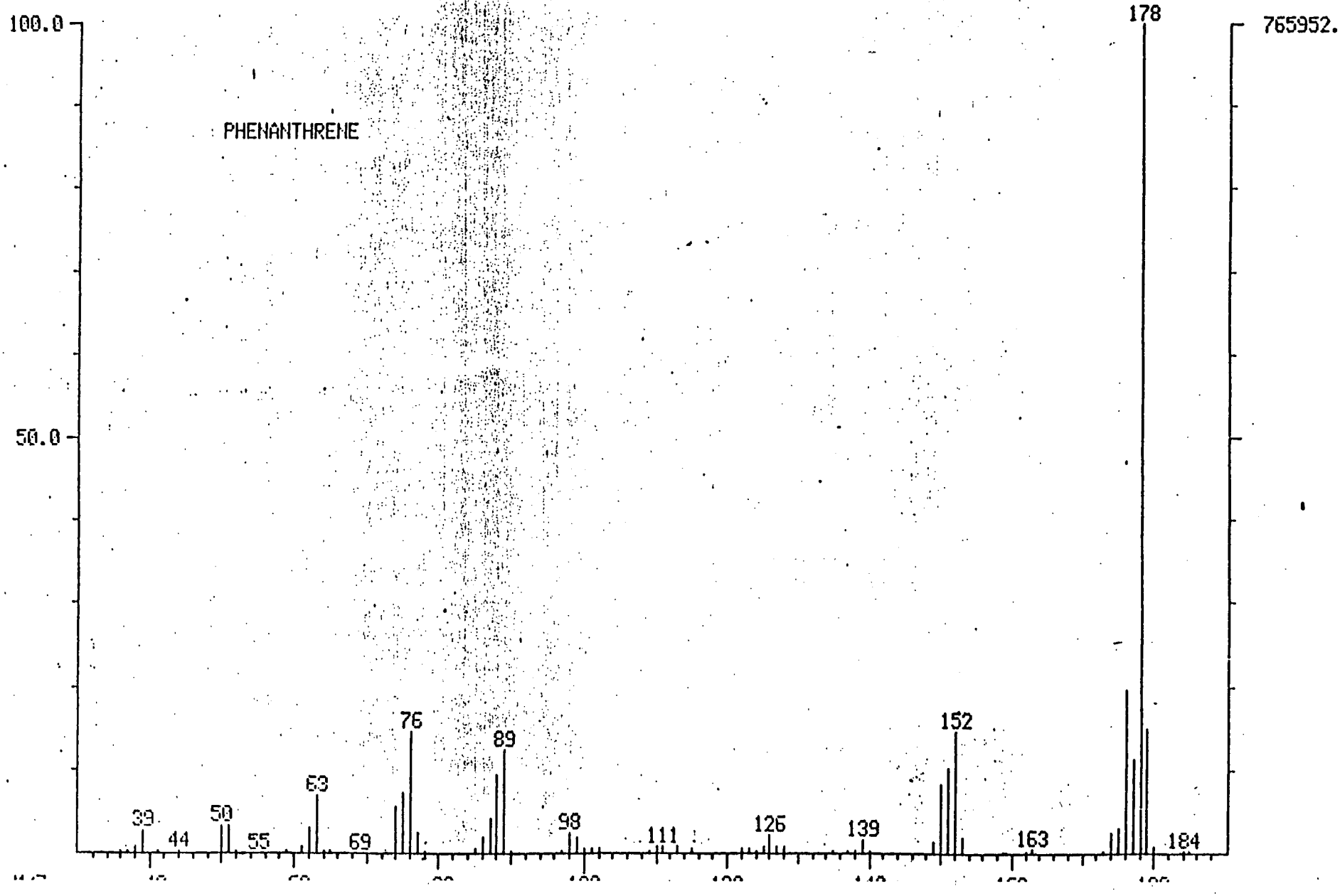


1738

MID MASS SPECTRUM
03/17/87 17:10:00 + 26:47
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 240 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1668
CALI: HSC50317 #2

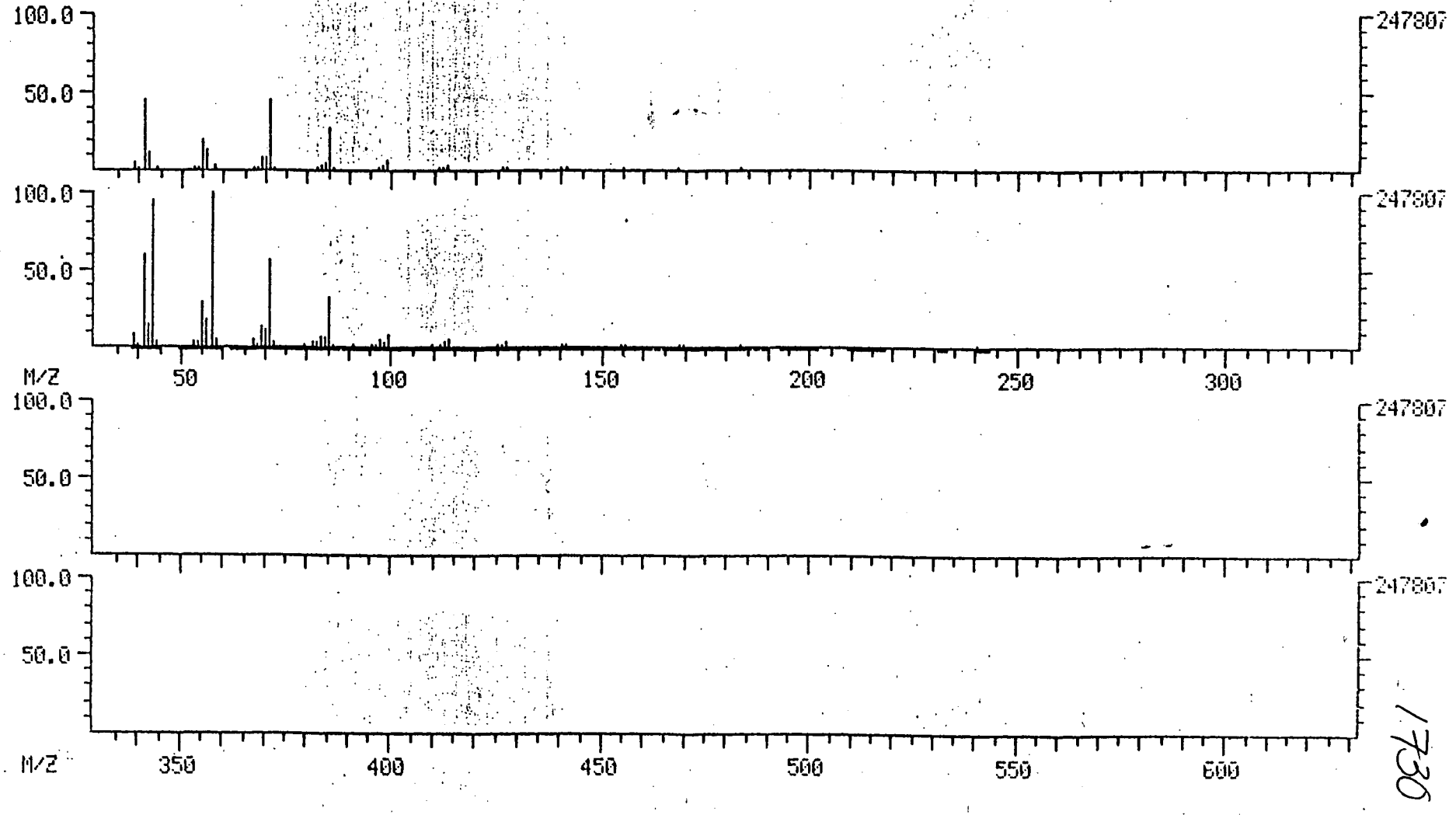
BASE M/Z: 178
RIC: 2232310.



1729

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 21:45
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 199 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1358 BASE M/Z: 41/ 57
CALI: 14558N4R #2 RIC: 5963770./13910000.

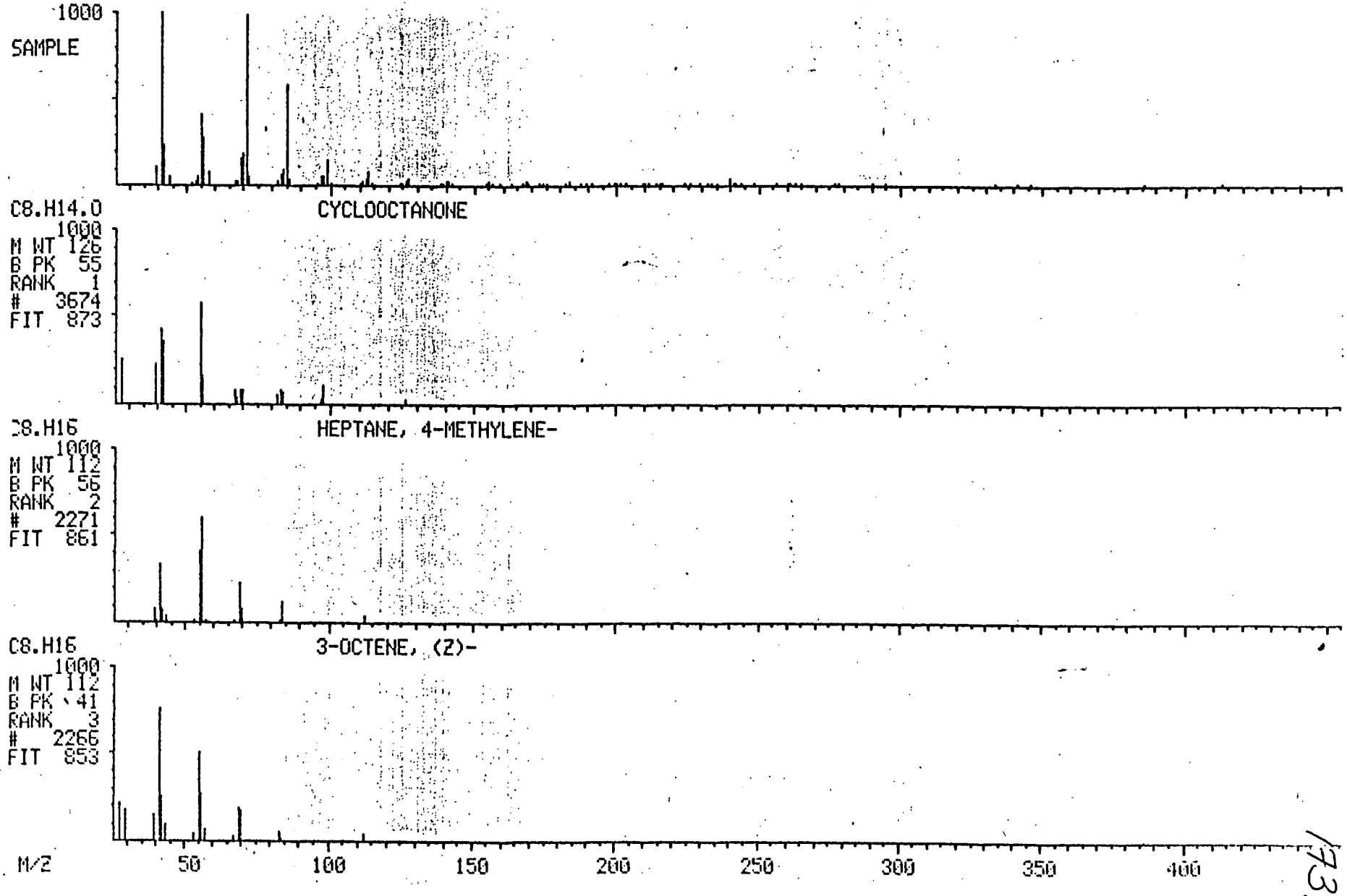


1730

MID LIBRARY SEARCH
08/25/87 22:19:00 + 21:45
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1358
CALI: 14558N4R # 2

BASE M/Z: 41
RIC: 5906430.



731

MID Library Search Data: 14558N4R #1358 Base m/z: 41
08/25/87 22:19:00 + 21:45 Cali: 14558N4R # 2 RIC: 5906430.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	3674	CYCLOOCTANONE
2	2271	HEPTANE, 4-METHYLENE-
3	2266	3-OCTENE, (Z)-
4	2263	4-OCTENE, (Z)-
5	3757	CYCLOPENTANE, 1-METHYL-2-PROPYL-

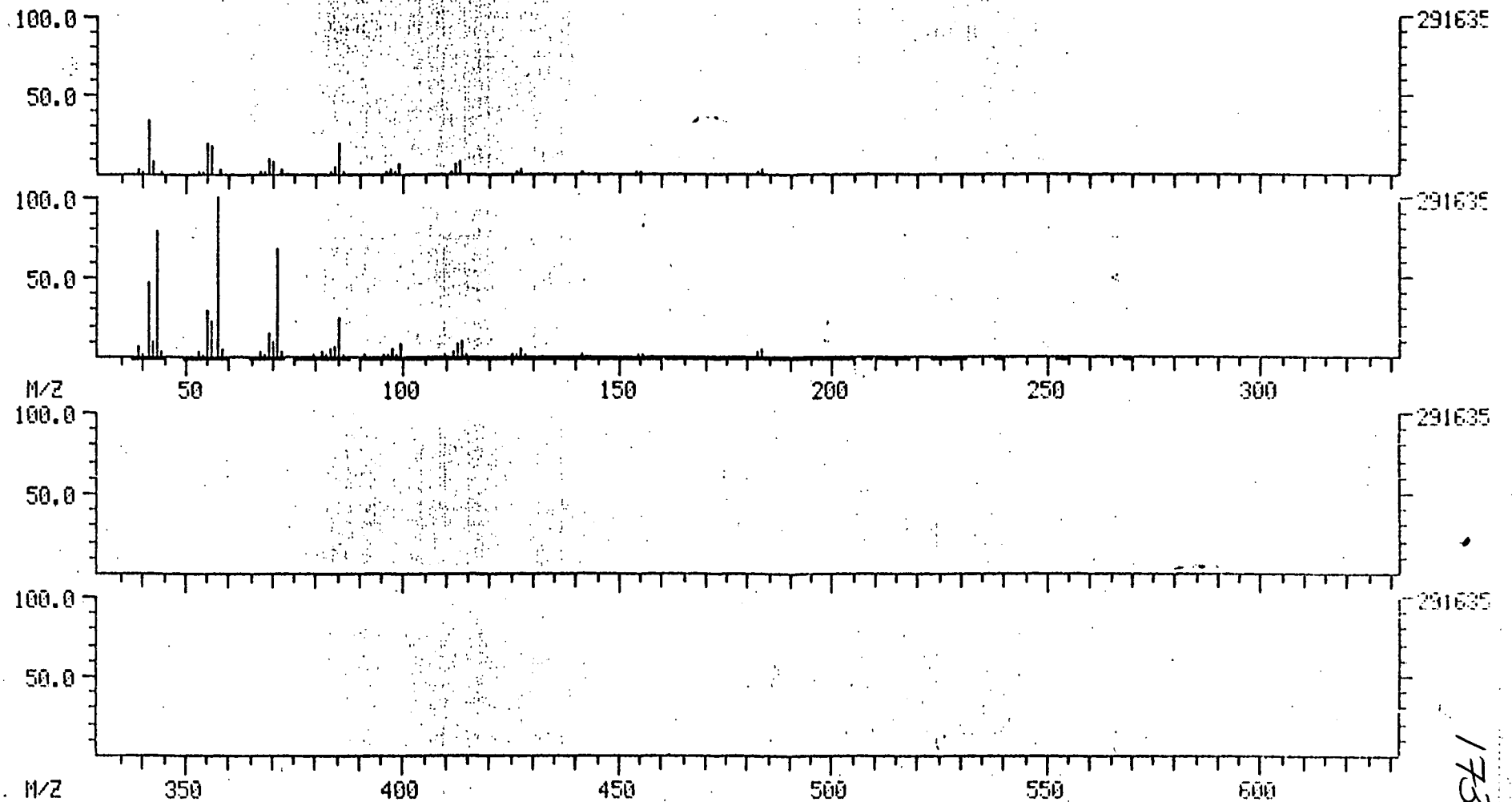
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H14.O	126	55	353	873	370
2	C8.H16	112	56	321	861	330
3	C8.H16	112	41	318	853	363
4	C8.H16	112	41	305	851	351
5	C9.H18	126	55	339	850	363

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	502-49-8
2	___	___	___	___	15918-08-8
3	___	___	___	___	14850-22-7
4	___	___	___	___	7642-15-1
5	___	___	___	___	3728-57-2

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 21:51
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 200 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1364
CALI: 14558N4R #2

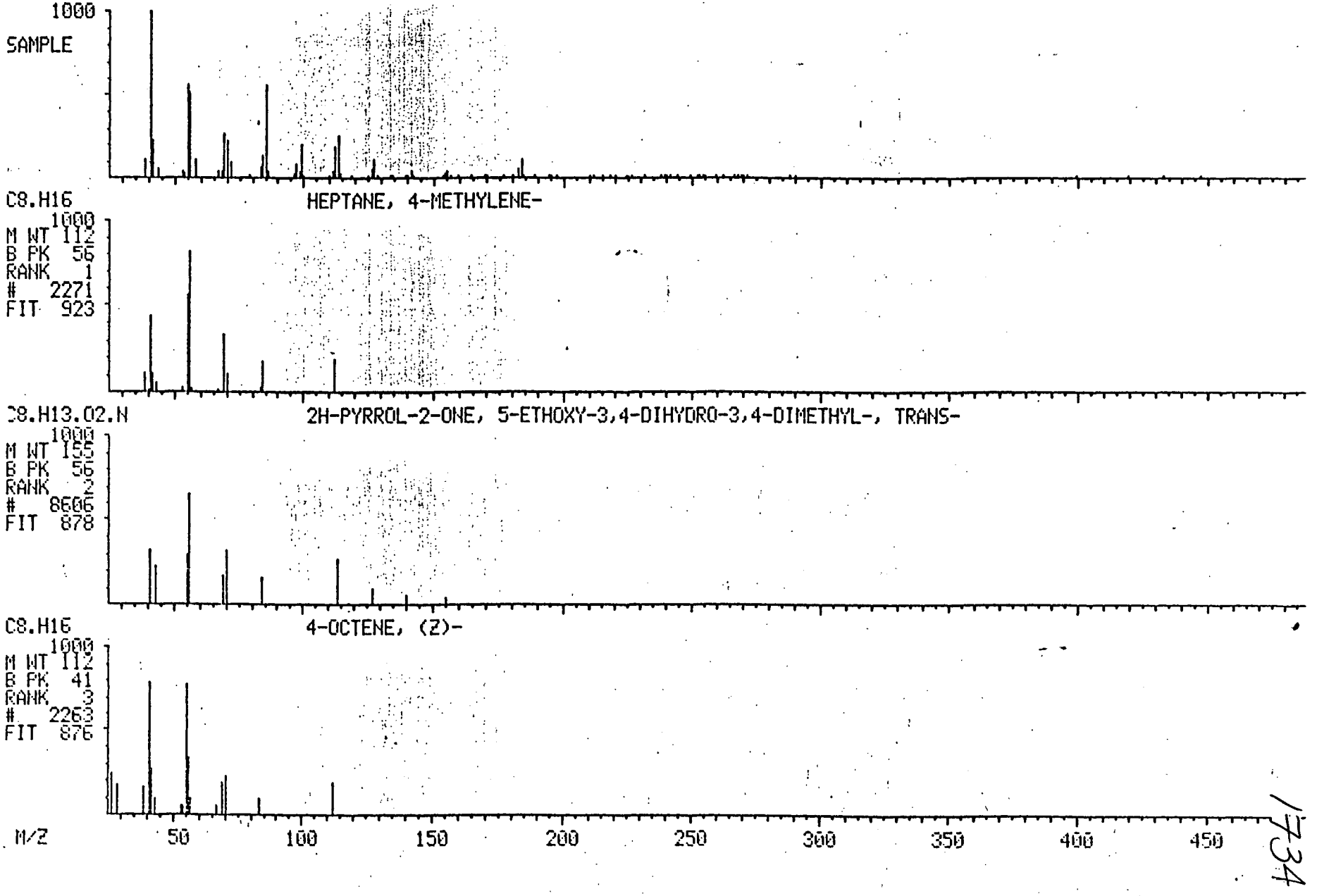
BASE M/Z: 41/ 57
RIC: 5554170./15679400.



1733

MID LIBRARY SEARCH
08/25/87 22:19:00 + 21:51
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1364 BASE M/Z: 41
CALI: 14558N4R # 2 RIC: 5488630.



MID Library Search Data: 14558N4R #1364 Base m/z: 41
08/25/87 22:19:00 + 21:51 Cali: 14558N4R # 2 RIC: 5488630.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	2271	HEPTANE, 4-METHYLENE-
2	8606	2H-PYRROL-2-ONE, 5-ETHOXY-3,4-DIHYDRO-3,4-DIMETHYL-, TRANS-
3	2263	4-OCTENE, (Z)-
4	2266	3-OCTENE, (Z)-
5	2267	4-OCTENE, (E)-

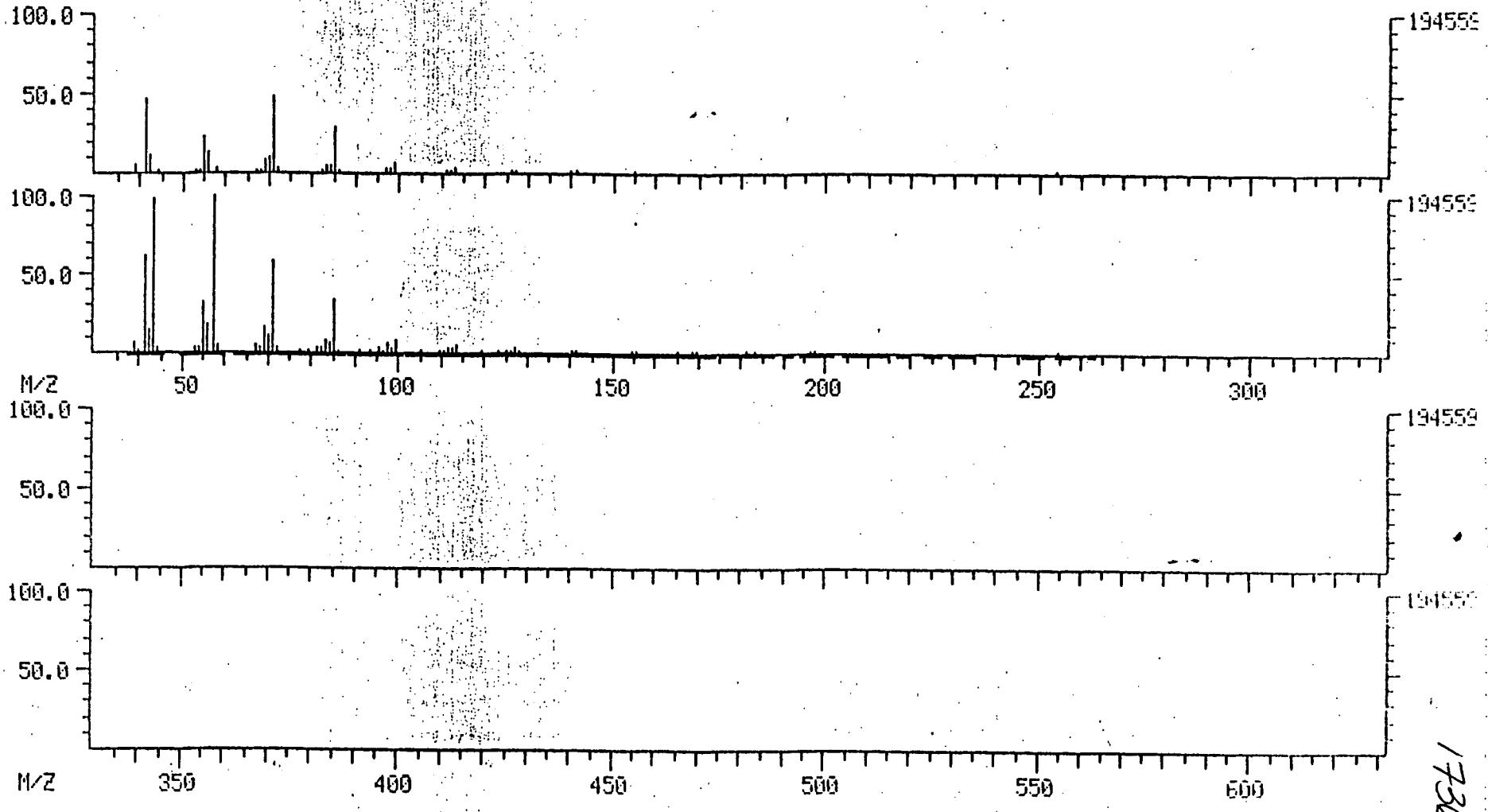
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H16	112	56	412	923	422
2	C8.H13.O2.N	155	56	402	878	424
3	C8.H16	112	41	372	876	415
4	C8.H16	112	41	389	873	433
5	C8.H16	112	41	377	848	427

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	15918-08-8
2	___	___	___	___	64833-42-7
3	___	___	___	___	7642-15-1
4	___	___	___	___	14850-22-7
5	___	___	___	___	14850-23-8

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 23:11
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 211 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1448
CALI: 14558N4R #2

BASE M/Z: 71/ 57
RIC: 4997110./11485100.

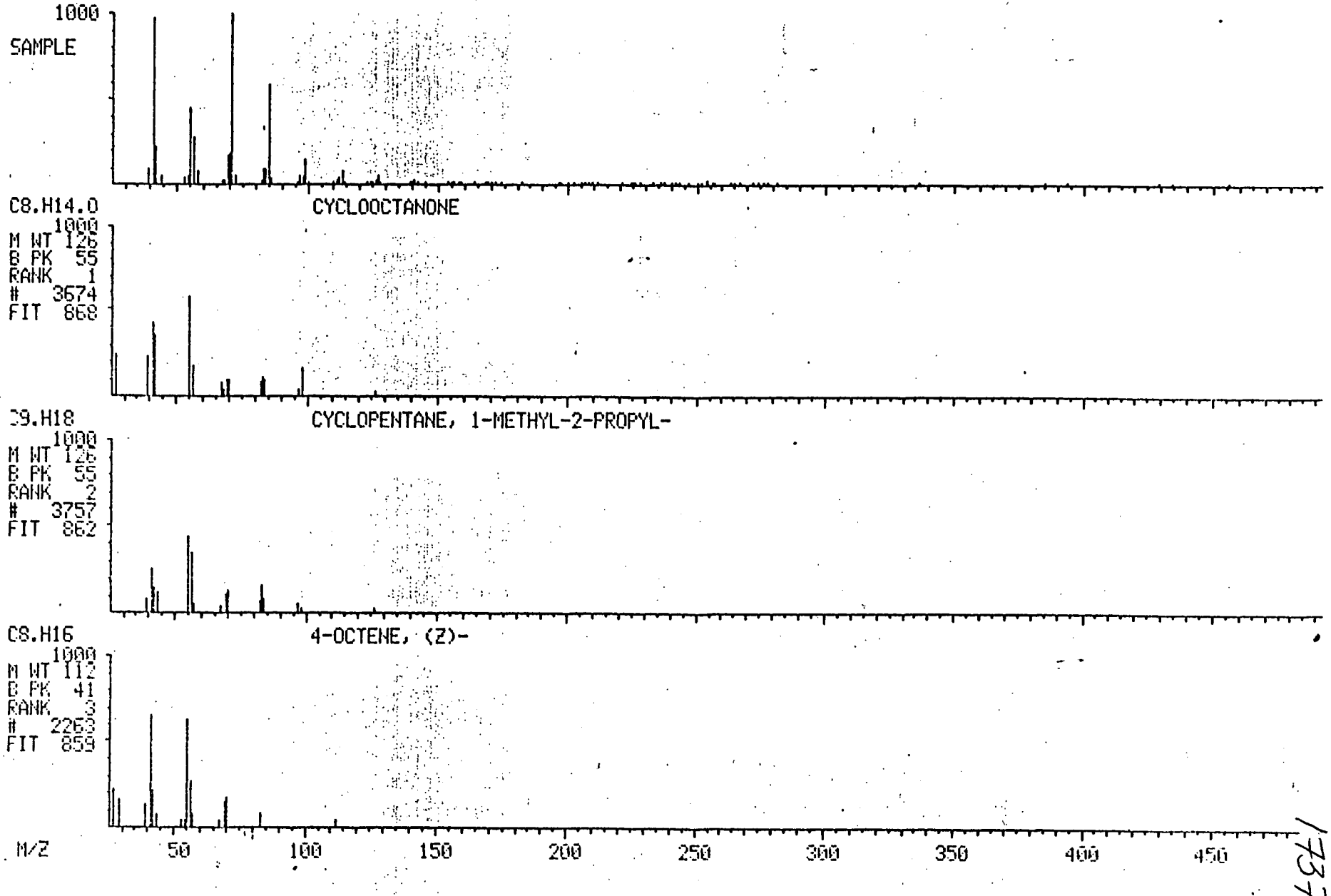


1736

MID LIBRARY SEARCH
08/25/87 22:19:00 + 23:11
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1448
CALI: 14558N4R # 2

BASE M/Z: 71
RIC: 4964350.



1737

MID Library Search Data: 14558N4R #1448 Base m/z: 71
08/25/87 22:19:00 + 23:11 Cali: 14558N4R # 2 RIC: 4964350.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

Rank	In.	Name
1	3674	CYCLOOCTANONE
2	3757	CYCLOPENTANE, 1-METHYL-2-PROPYL-
3	2263	4-OCTENE, (Z)-
4	2271	HEPTANE, 4-METHYLENE-
5	2266	3-OCTENE, (Z)-

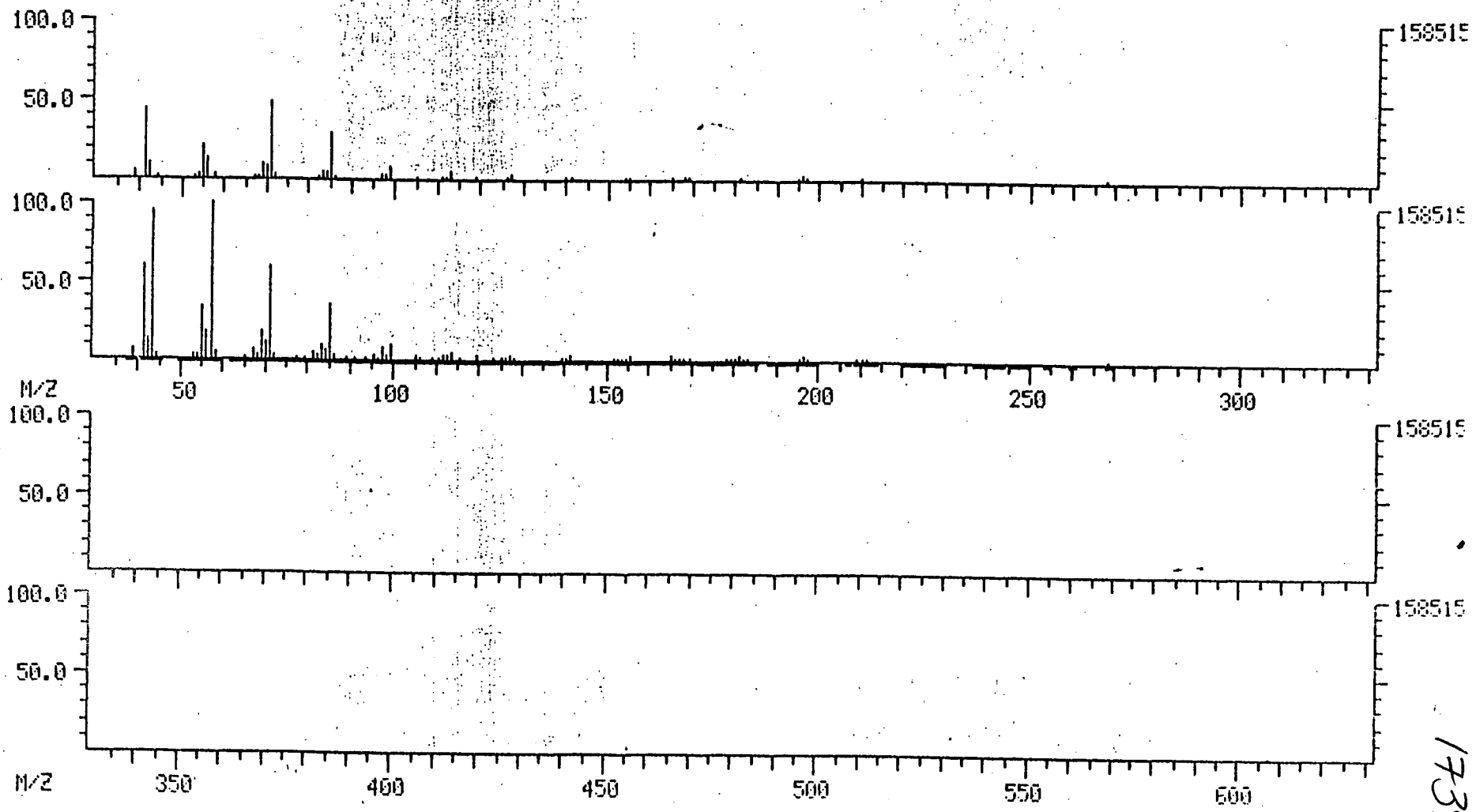
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H14.O	126	55	353	868	368
2	C9.H18	126	55	346	862	370
3	C8.H16	112	41	311	859	356
4	C8.H16	112	56	323	859	332
5	C8.H16	112	41	323	858	367

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	___	___	___	___	502-49-8
2	___	___	___	___	3728-57-2
3	___	___	___	___	7642-15-1
4	___	___	___	___	15918-08-8
5	___	___	___	___	14850-22-7

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 24:33
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 222 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1533
CALI: 14558N4R #2

BASE M/Z: 71/ 57
RIC: 4399100./10010600.

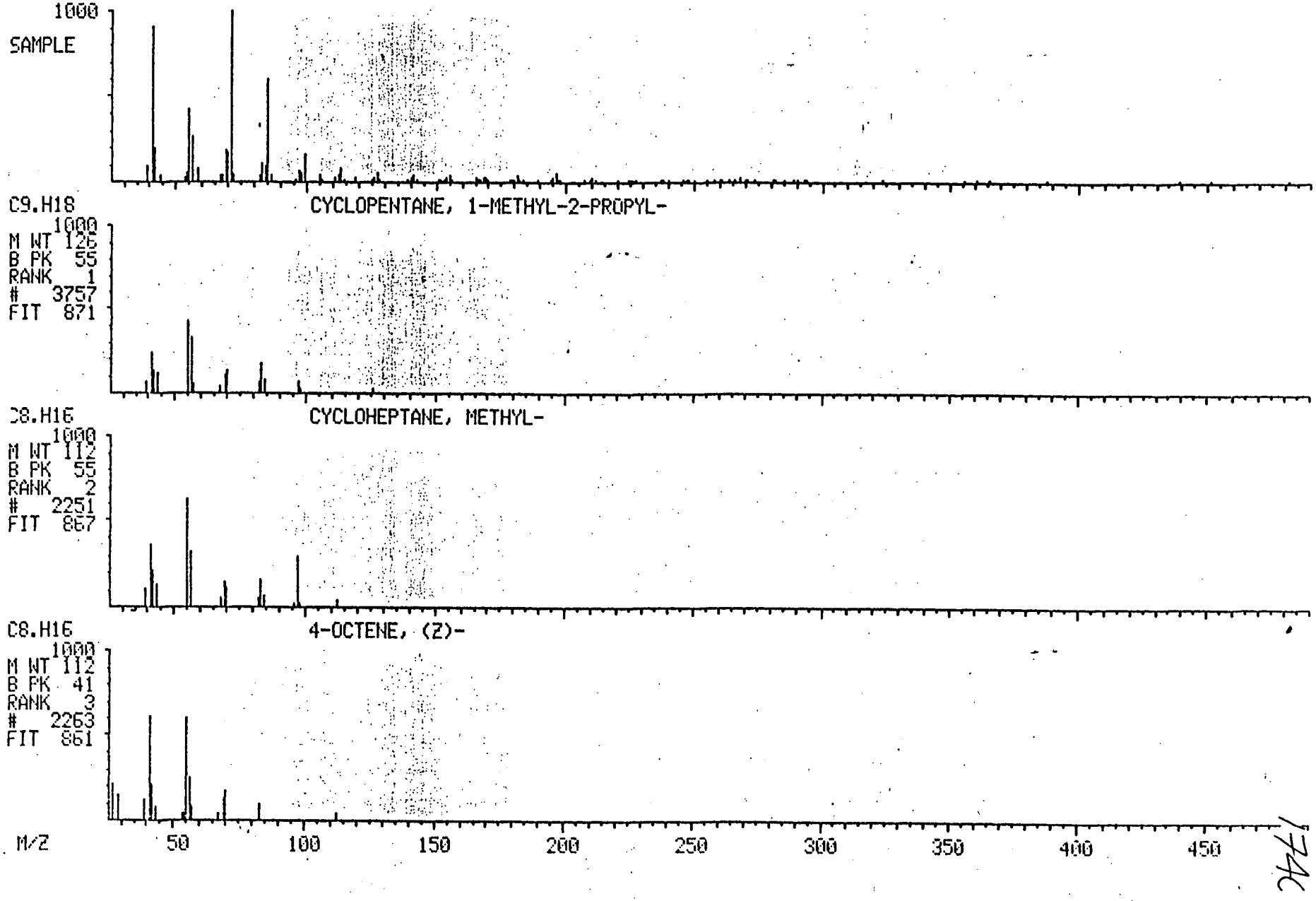


1739

MID LIBRARY SEARCH
08/25/87 22:19:00 + 24:33
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1533
CALI: 14558N4R # 2

BASE M/Z: 71
RIC: 4300790.



74

MID Library Search Data: 14558N4R #1533 Base m/z: 71
08/25/87 22:19:00 + 24:33 Cali: 14558N4R # 2 RIC: 4300790.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

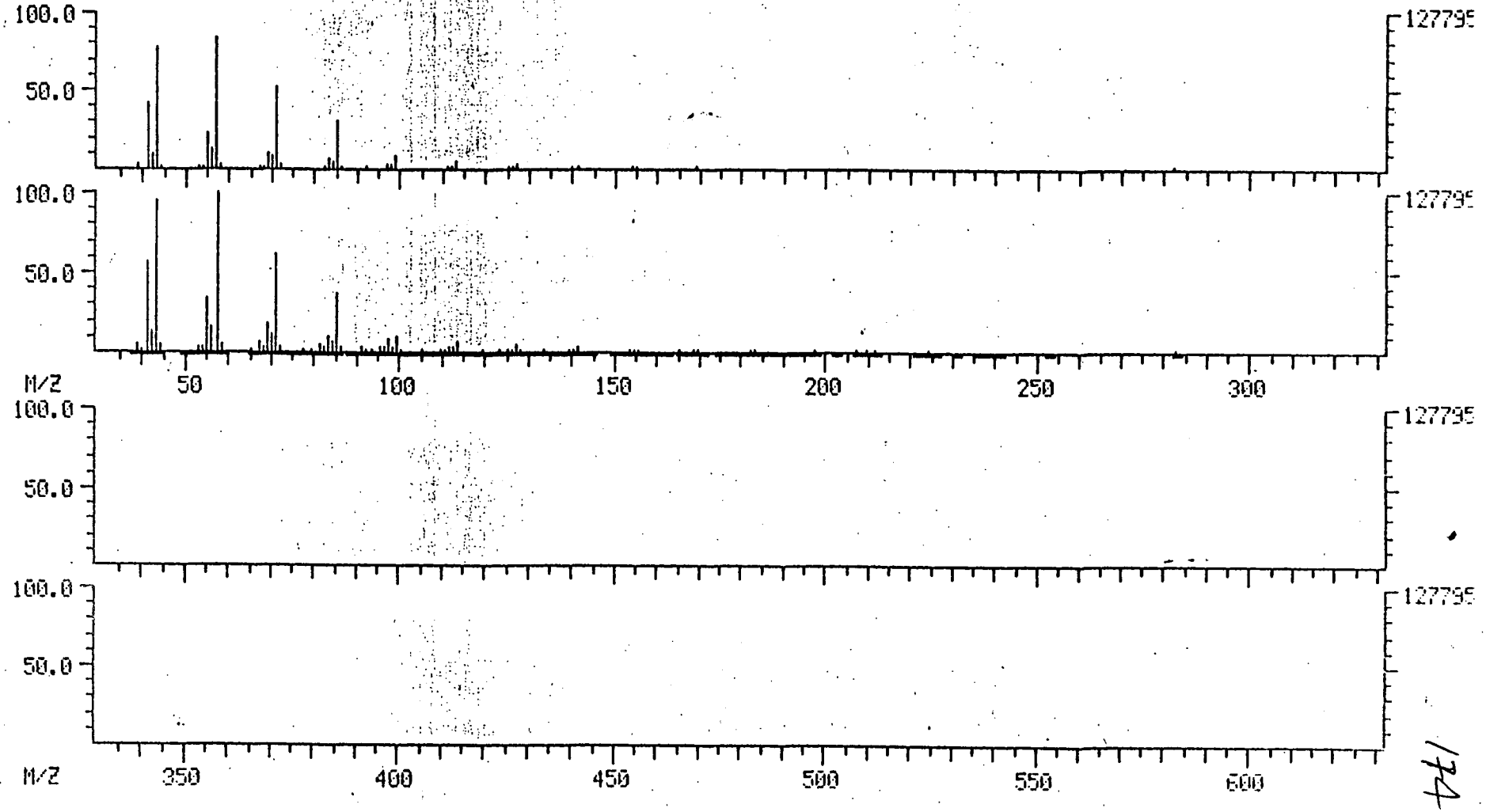
Rank	In.	Name
1	3757	CYCLOPENTANE, 1-METHYL-2-PROPYL-
2	2251	CYCLOHEPTANE, METHYL-
3	2263	4-OCTENE, (Z)-
4	2266	3-OCTENE, (Z)-
5	2271	HEPTANE, 4-METHYLENE-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H18	126	55	292	871	311
2	C8.H16	112	55	294	867	304
3	C8.H16	112	41	255	861	290
4	C8.H16	112	41	265	861	301
5	C8.H16	112	56	265	860	272

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	3728-57-2
2	___	___	___	___	4126-78-7
3	___	___	___	___	7642-15-1
4	___	___	___	___	14850-22-7
5	___	___	___	___	15918-08-8

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 25:51
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 233 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1614 BASE M/Z: 57/ 57
CALI: 14558N4R #2 RIC: 5537790./ 8044540.

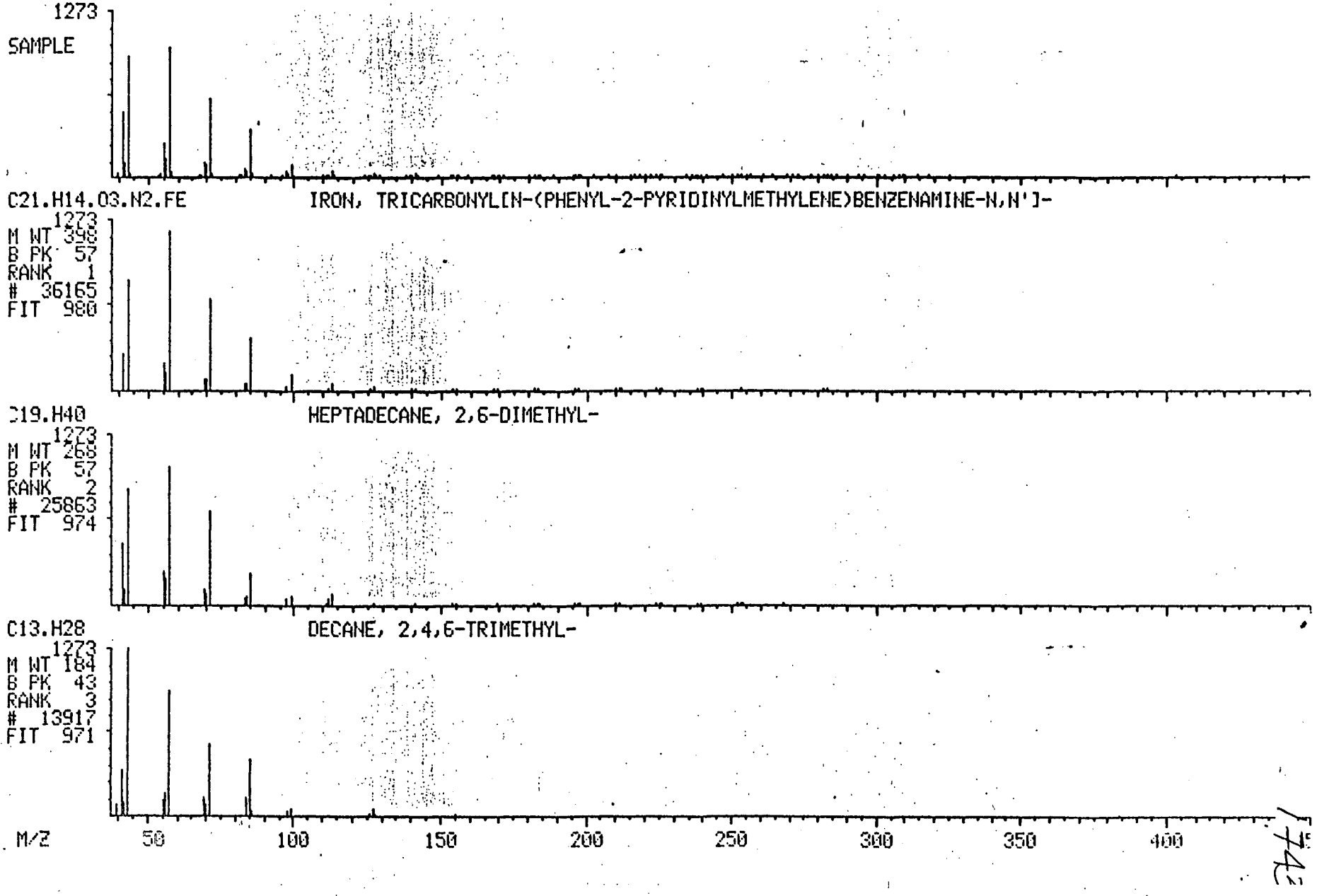


174

MID LIBRARY SEARCH
08/25/87 22:19:00 + 25:51
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1614
CALI: 14558N4R # 2

BASE M/Z: 57
RIC: 5513210.



MID Library Search Data: 14558N4R #1614 Base m/z: 57
08/25/87 22:19:00 + 25:51 Cali: 14558N4R # 2 RIC: 5513210.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N 0T)

Rank	In.	Name
1	36165	IRON, TRICARBONYL[N-(PHENYL-2-PYRIDINYLMETHYLENE)BENZENAMINE-N,N']-
2	25863	HEPTADECANE, 2,6-DIMETHYL-
3	13917	DECANE, 2,4,6-TRIMETHYL-
4	30170	DOCOSANE
5	39944	HEXATRIACONTANE

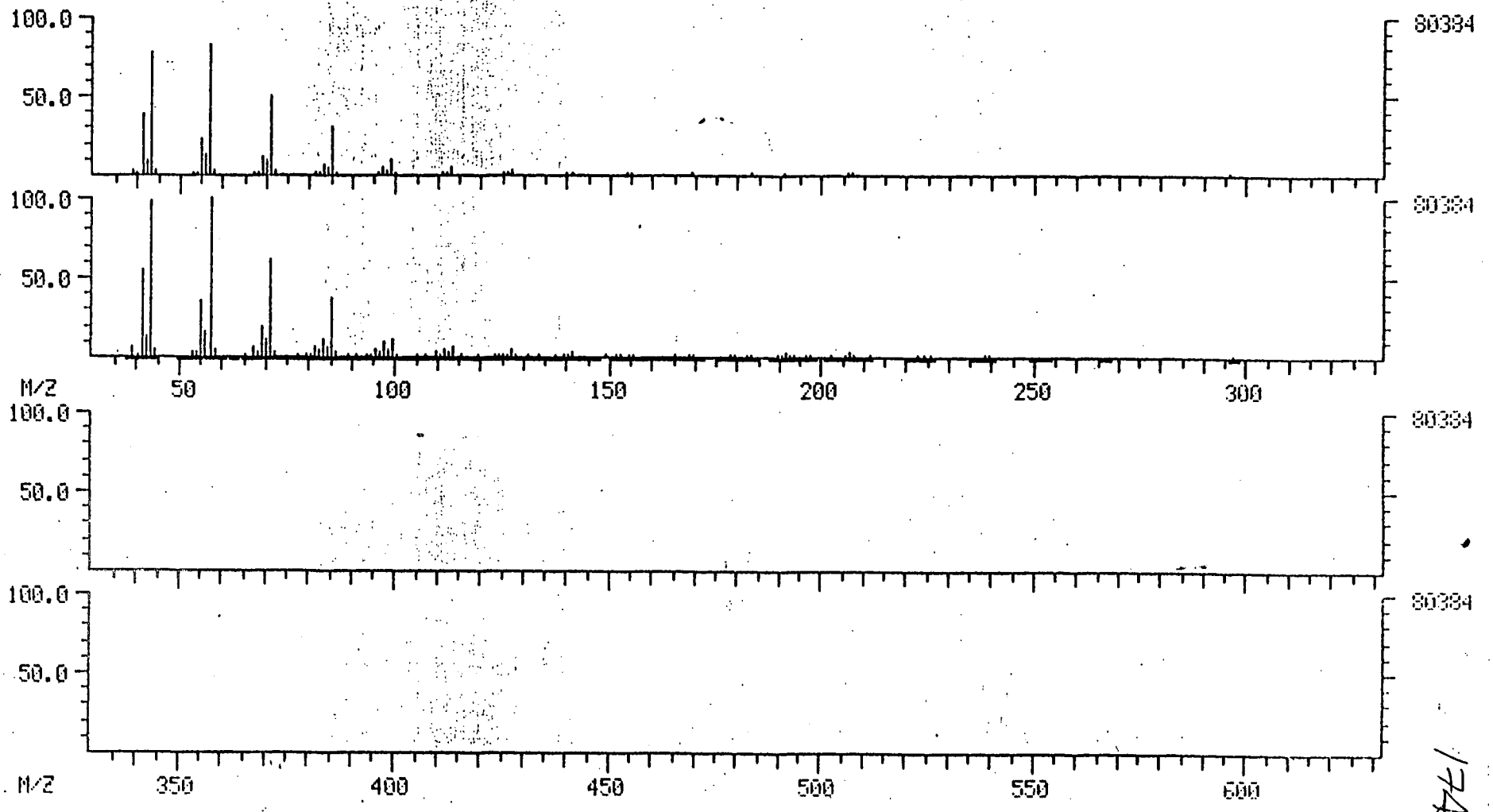
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C21.H14.O3.N2.FE	398	57	855	980	862
2	C19.H40	268	57	841	974	845
3	C13.H28	184	43	752	971	752
4	C22.H46	310	57	811	962	829
5	C36.H74	506	57	810	961	827

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	74764-11-7
2	—	—	—	—	54105-67-8
3	—	—	—	—	62108-27-4
4	—	—	—	—	629-97-0
5	—	—	—	—	630-06-8

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 27:06
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 243 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1692
CALI: 14558N4R #2

BASE M/Z: 57/ 57
RIC: 3592190./ 5496830.

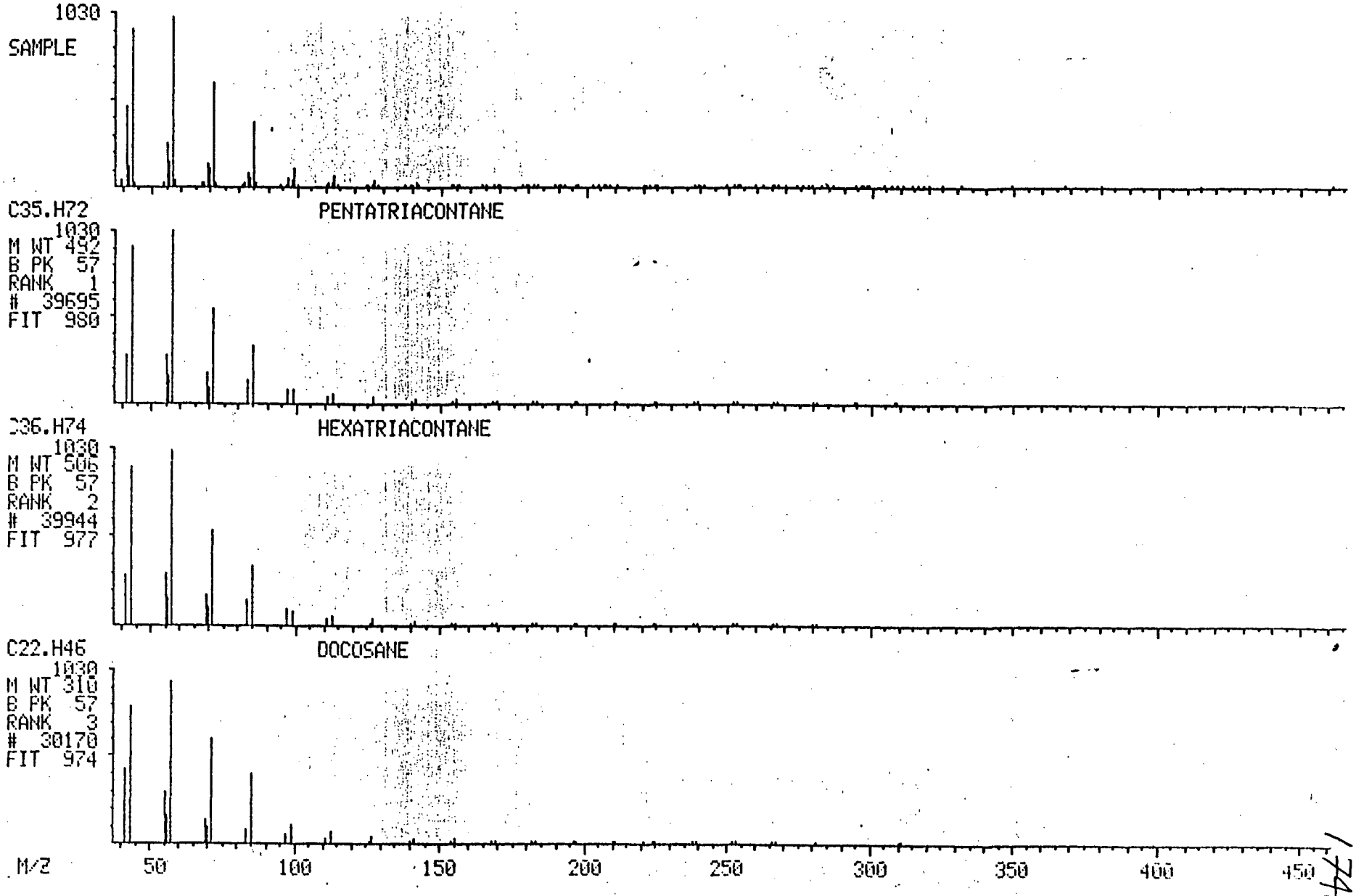


1745

MID LIBRARY SEARCH
08/25/87 22:19:00 + 27:06
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1692
CALI: 14558N4R # 2

BASE M/Z: 57
RIC: 3530750.



1/74

MID Library Search Data: 14558N4R #1692 Base m/z: 57
08/25/87 22:19:00 + 27:06 Cali: 14558N4R # 2 RIC: 3530750.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

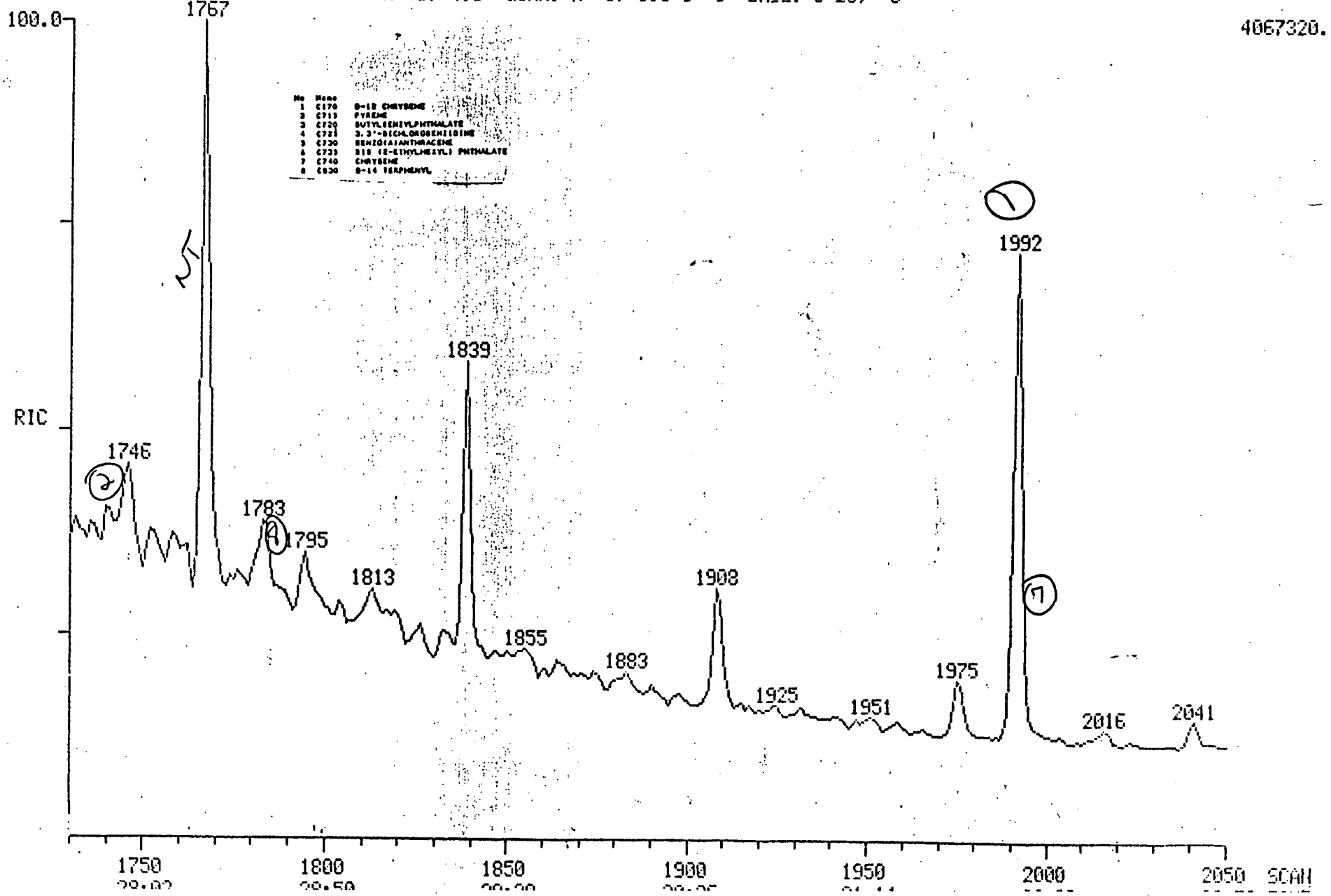
Rank	In.	Name
1	39695	PENTATRIACONTANE
2	39944	HEXATRIACONTANE
3	30170	DOCOSANE
4	28942	HEPTADECANE, 2,6,10,15-TETRAMETHYL-
5	13917	DECANE, 2,4,6-TRIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C35.H72	492	57	778	980	783
2	C36.H74	506	57	781	977	788
3	C22.H46	310	57	780	974	794
4	C21.H44	296	57	763	974	772
5	C13.H28	184	43	695	971	695

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	630-07-9
2	—	—	—	—	630-06-8
3	—	—	—	—	629-97-0
4	—	—	—	—	54833-48-6
5	—	—	—	—	62108-27-4

MIDRIC
08/25/87 22:19:00
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558N4R #1 SCANS 1730 TO 2050
CALI: 14558N4R #2



1748

1749

Quantitation Report File: 14558N4R

Data: 14558N4R.TI
08/25/87 22:19:00
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558N4R

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

No	Name		
1	CI70	D-12 CHRYSENE	(INT. STD.)
2	C715	PYRENE	
3	C720	BUTYLBENZYLPHTHALATE	
4	C725	3,3'-DICHLOROBENZIDINE	
5	C730	BENZO(A)ANTHRACENE	
6	C745	BIS(2-ETHYLHEXYL) PHTHALATE	
7	C740	CHRYSENE	
8	CS30	D-14 TERPHENYL	(SURROGATE)

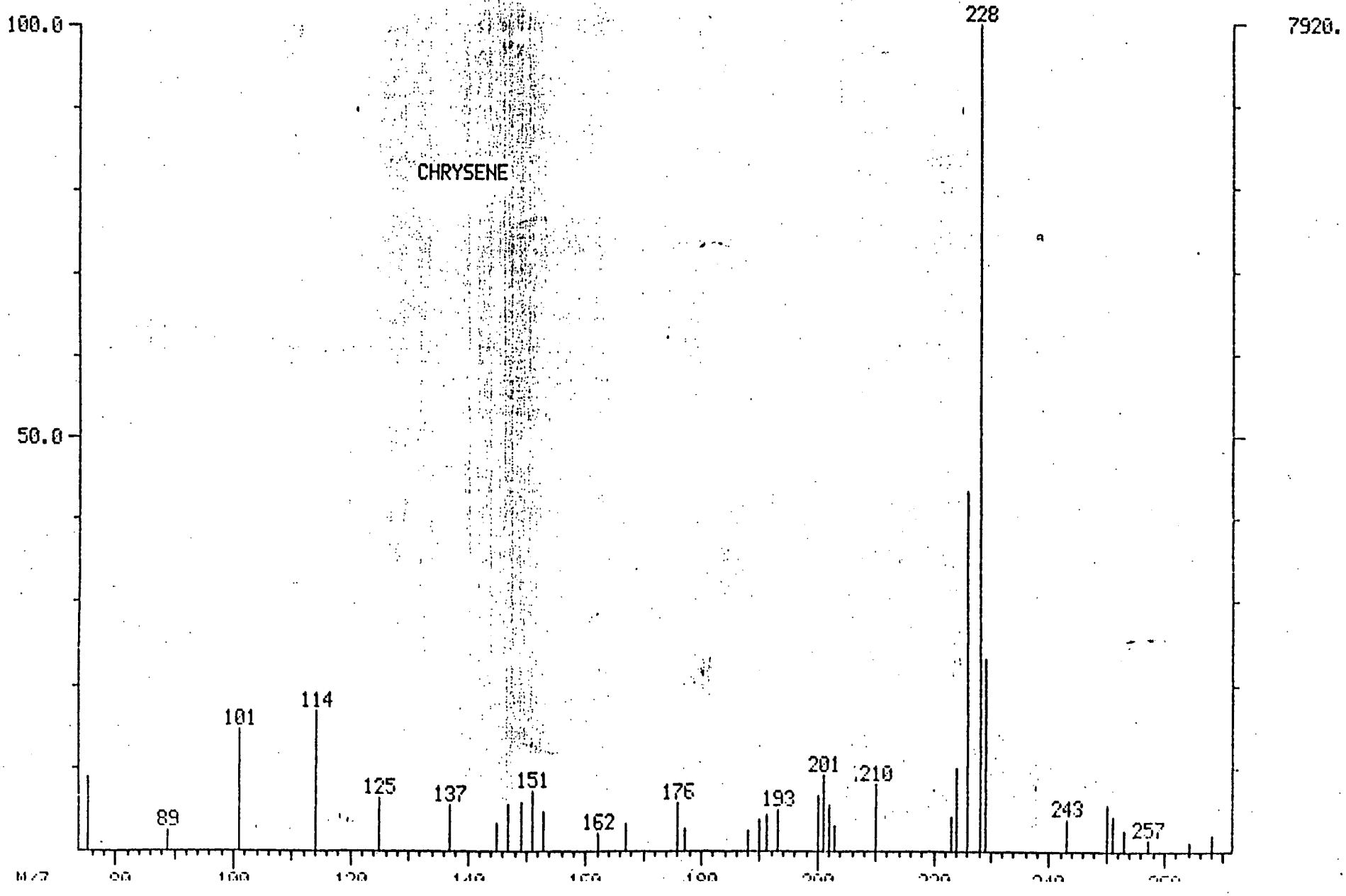
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot	
1	240	1992	31:54	1	1.000	A BV	2082870.	40.000	NG	79.53	
2	202	1745	27:57	1	0.876	A VB	176128.	2.736	NG	5.44	Yes DDJ
3	149	1895	30:21	1	0.951	A BB	~~3372.~~	~~0.033~~	~~NG~~	~~0.16~~	NO DDJ
4	252	1988	31:50	1	0.998	A BV	~~1312.~~	~~0.081~~	~~NG~~	~~0.16~~	NO DDJ
5	228	1988	31:50	1	0.998	A BV	~~27588.~~	~~0.471~~	~~NG~~	~~0.94~~	NO DDJ
6	149	2016	32:17	1	1.012	A BB	~~21327.~~	~~0.354~~	~~NG~~	~~0.70~~	NO DDJ
7	228	1996	31:58	1	1.002	A VV	43122.	0.783	NG	1.56	Yes DDJ
8	244	1784	28:34	1	0.896	A BV	237731.	5.786	NG	11.50	Yes DDJ

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	31:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	27:57	1.00	0.876	1.00	2.74	50.00	0.068	1.236	0.05
3	30:19	1.00	0.950	1.00	0.08	50.00	0.001	0.786	0.00
4	31:52	1.00	0.999	1.00	0.08	50.00	0.001	0.311	0.00
5	31:51	1.00	0.998	1.00	0.47	50.00	0.011	1.125	0.01
6	32:18	1.00	1.013	1.00	0.35	50.00	0.008	1.156	0.01
7	32:00	1.00	1.003	1.00	0.78	50.00	0.017	1.058	0.02
8	28:34	1.00	0.896	1.00	5.79	50.00	0.091	0.789	0.12

MID MASS SPECTRUM
08/25/87 22:19:00 + 31:58
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 282 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1996
CALI: 14558N4R #2

BASE M/Z: 228
RIC: 33152.

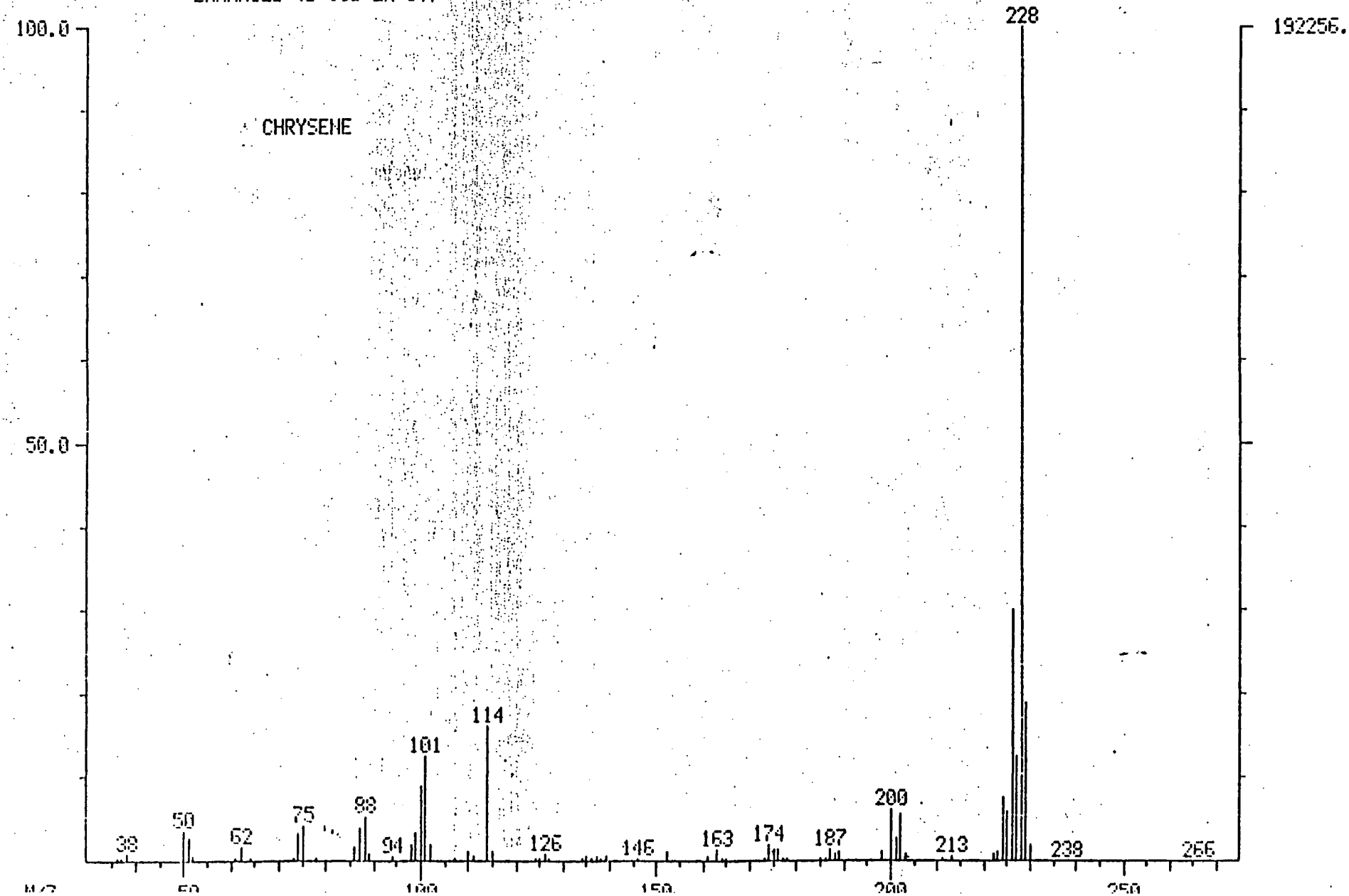


1750

MID MASS SPECTRUM
03/17/87 17:10:00 + 36:28
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 289 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #2271
CALI: HSC50317 #2

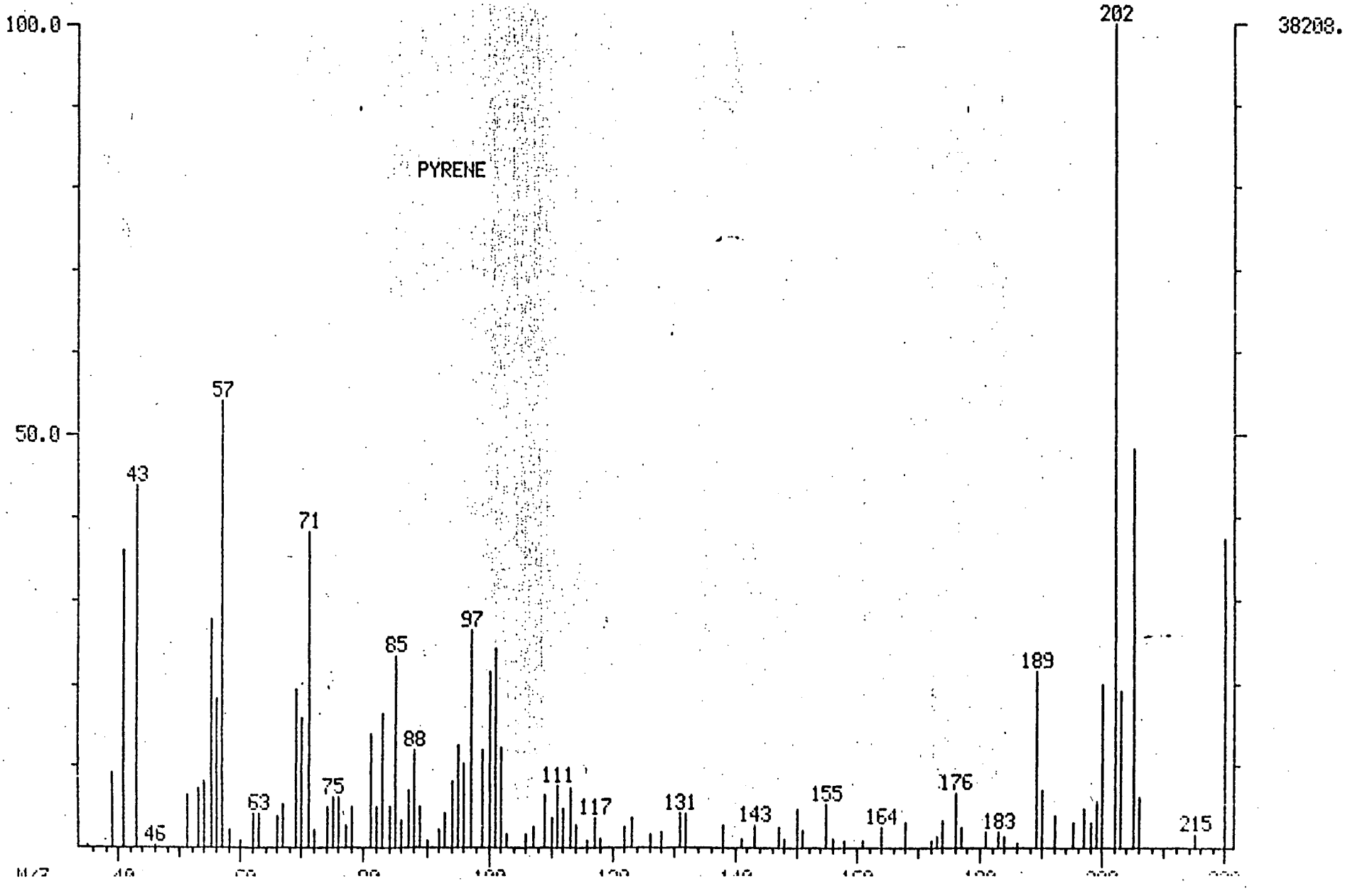
BASE M/Z: 228
RIC: 562176.



MID MASS SPECTRUM
08/25/87 22:19:00 + 27:57
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 250 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1745
CALI: 14558N4R #2

BASE M/Z: 202
RIC: 385536.

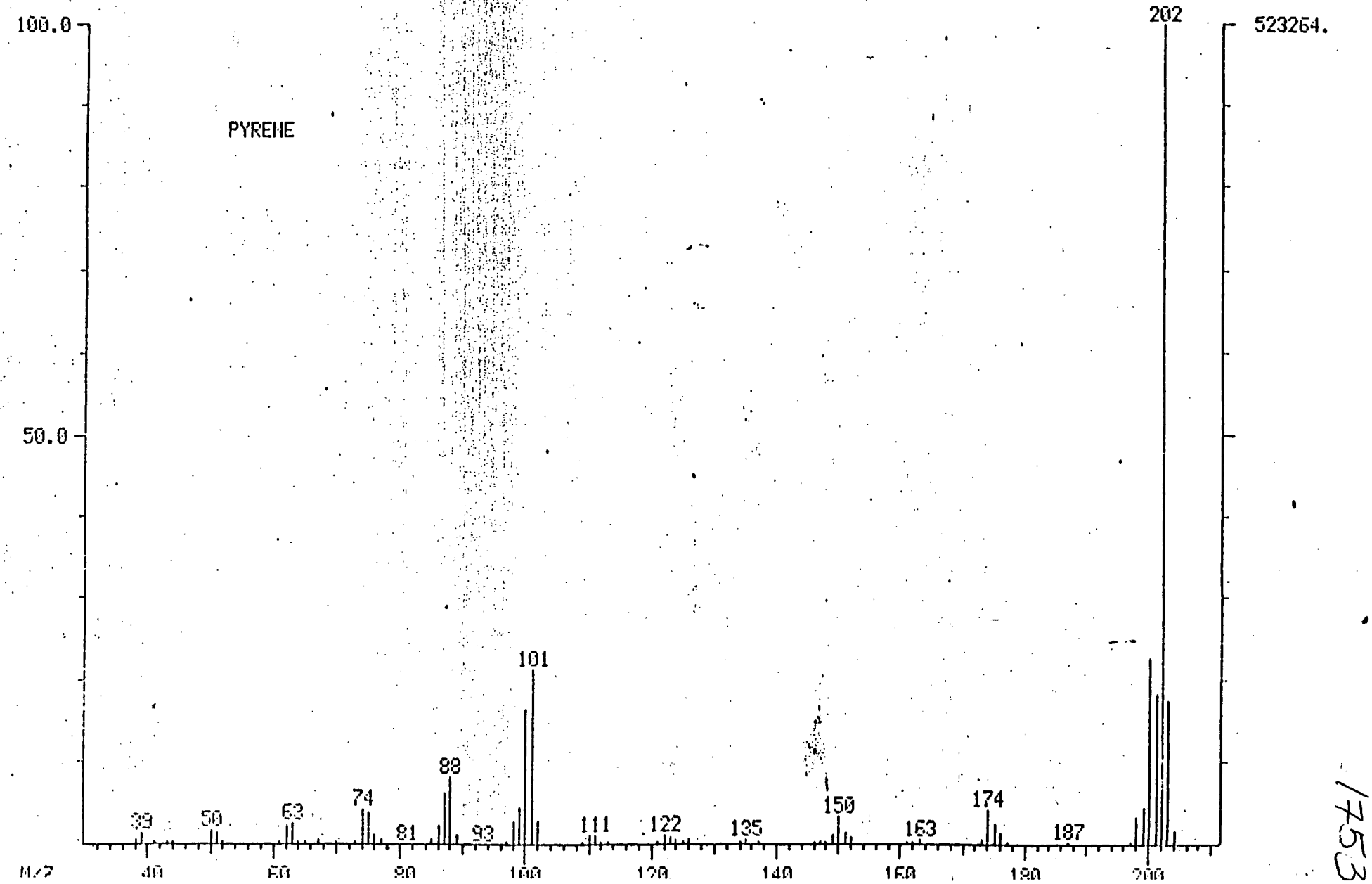


1752

MID MASS SPECTRUM
03/17/87 17:10:00 + 31:34
SAMPLE: HSL STANDARD 3/17/87
CONDS.: 50 NG INJECTION
GC TEMP: 279 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: HSC50317 #1966
CALI: HSC50317 #2

BASE M/Z: 202
RIC: 1476600.

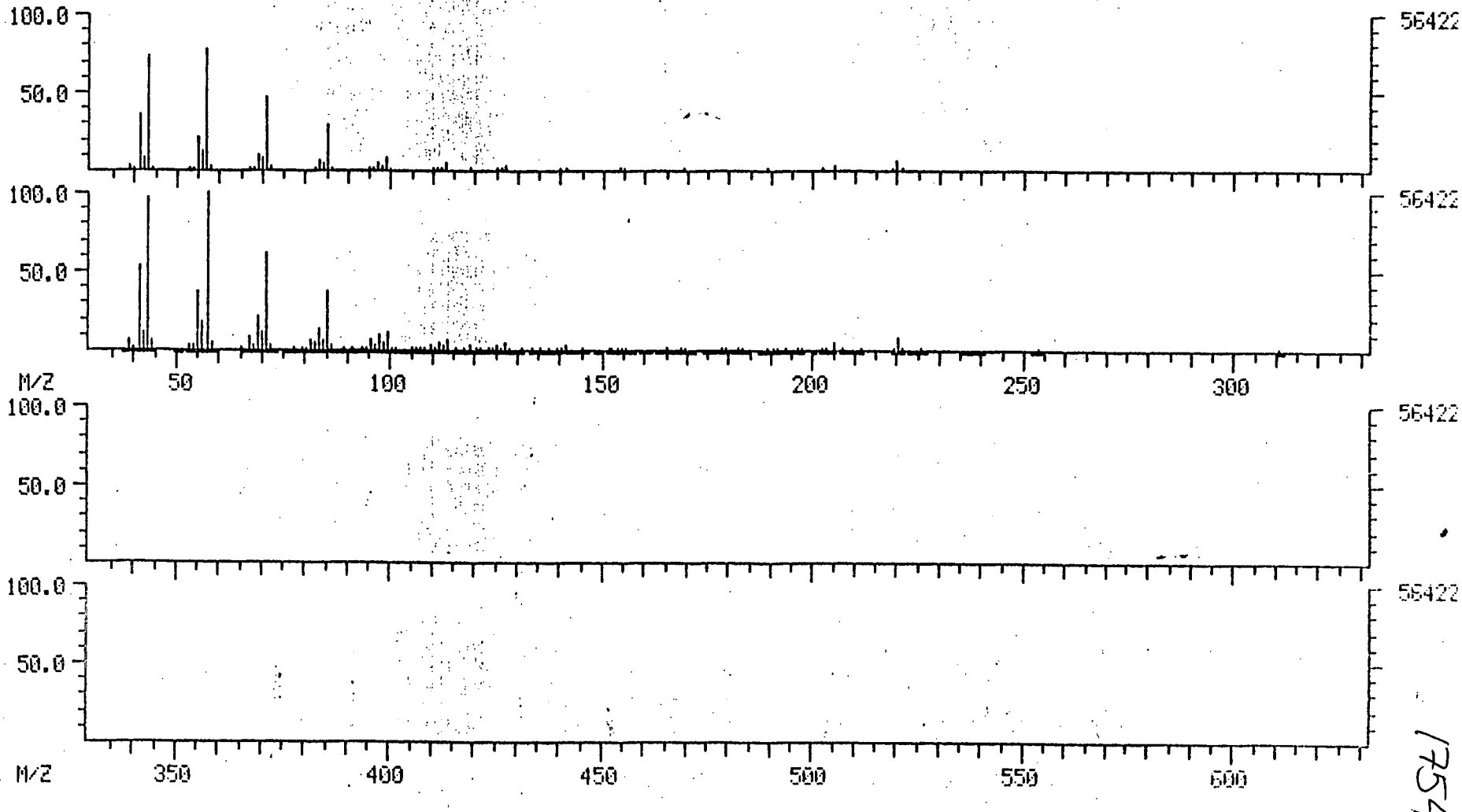


1753

MID DUAL MASS SPECTRUM
08/25/87 22:19:00 + 28:18
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
GC TEMP: 252 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1767
CALI: 14558N4R #2

BASE M/Z: 57/ 57
RIC: 2400250./ 4034550.

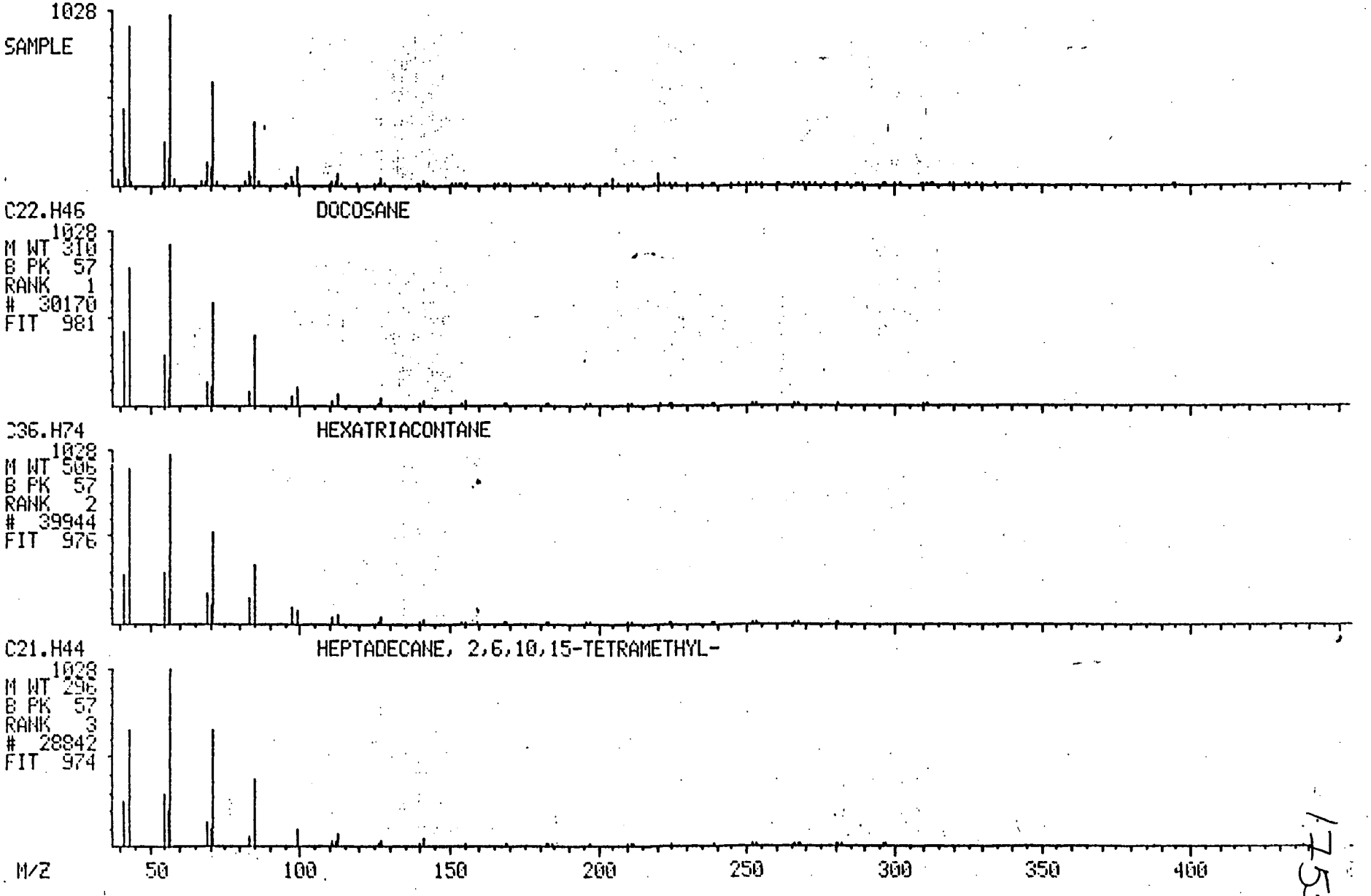


1754

MID LIBRARY SEARCH
08/25/87 22:19:00 + 28:18
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
ENHANCED (S 15B 2N 0T)

DATA: 14558N4R #1767
CALI: 14558N4R # 2

BASE M/Z: 57
RIC: 2355190.



MID Library Search Data: 14558N4R #1767 Base m/z: 57
08/25/87 22:19:00 + 28:18 Cali: 14558N4R # 2 RIC: 2355190.
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Enhanced (S 15B 2N OT)

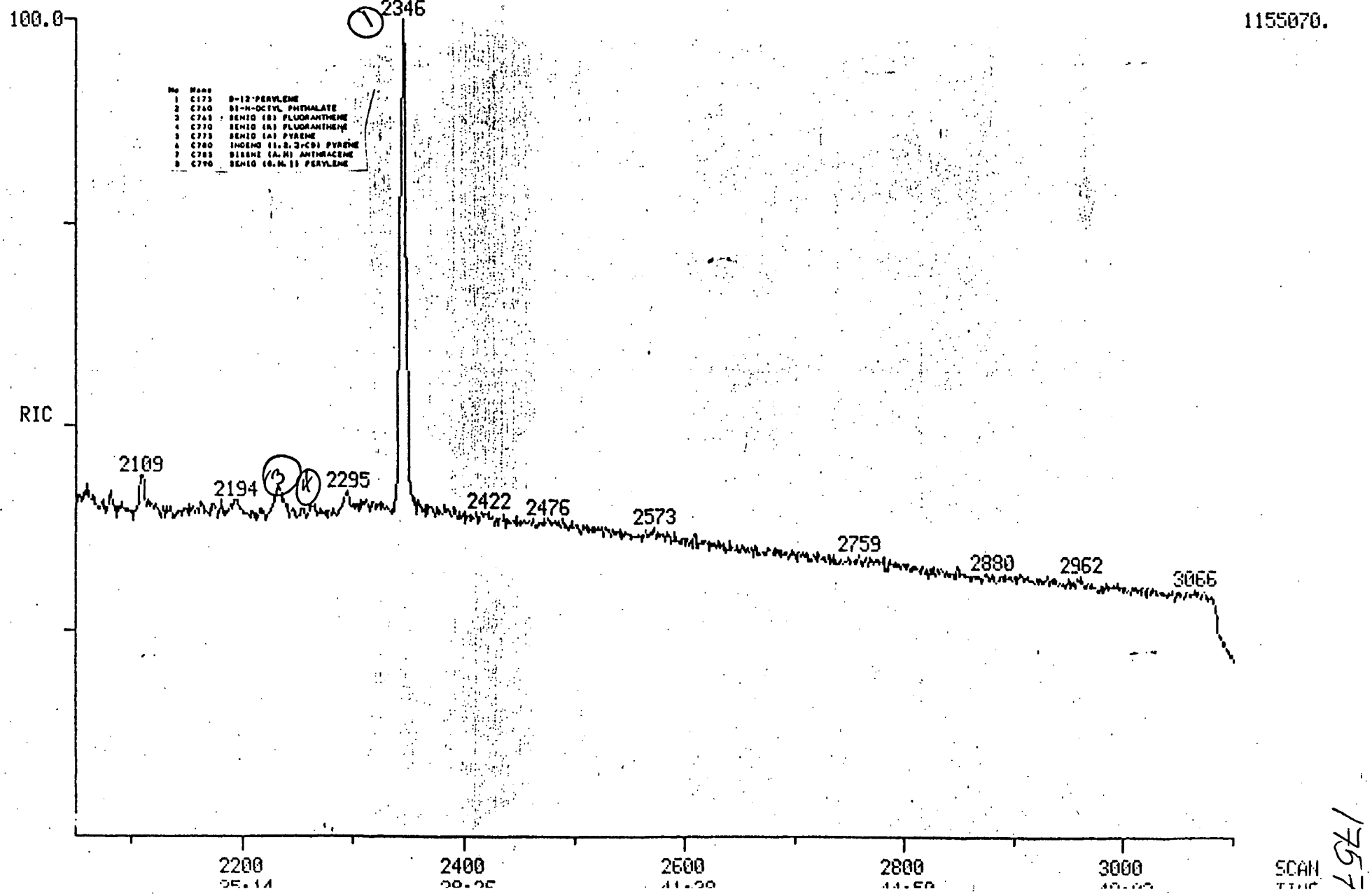
Rank	In.	Name
1	30170	DOCOSANE
2	39944	HEXATRIACONTANE
3	28842	HEPTADECANE, 2,6,10,15-TETRAMETHYL-
4	39695	PENTATRIACONTANE
5	36033	OCTACOSANE

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C22. H46	310	57	746	981	753
2	C36. H74	506	57	721	976	729
3	C21. H44	296	57	700	974	707
4	C35. H72	492	57	714	972	724
5	C28. H58	394	43	700	966	718

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	629-97-0
2	—	—	—	—	630-06-8
3	—	—	—	—	54833-48-6
4	—	—	—	—	630-07-9
5	—	—	—	—	630-02-4

MIDRIC
08/25/87 22:19:00
SAMPLE: 14558-4
CONDS.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
RANGE: G 1,3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 14558N4R #1 SCANS 2050 TO 3100
CALI: 14558N4R #2



1767

1758

Quantitation Report File: 14558N4R

Data: 14558N4R.TI
08/25/87 22:19:00
Sample: 14558-4
Conds.: 10.35GMS/1.0ML 1:10 DILUTION 1.0 UL INJECTION
Formula: Instrument: 5100 Weight: 0.000
Submitted by: DWM Analyst: WAF Acct. No.: 14558N4R

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

No	Name		
1	CI75	D-12 PERYLENE	(INT. STD.)
2	C760	DI-N-OCTYL PHTHALATE	*
3	C765	BENZO (B) FLUORANTHENE	
4	C770	BENZO (K) FLUORANTHENE	
5	C775	BENZO (A) PYRENE	*
6	C780	INDENO (1,2,3-CD) PYRENE	
7	C785	DIBENZ (A,H) ANTHRACENE	
8	C790	BENZO (G,H,I) PERYLENE	

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot	
1	264	2346	37:34	1	1.000	A BV	1278060.	40.000 NG	92.46	
2	149	2153	34:29	1	0.918	A VB	~~1373.~~	~~0.008 NG~~	~~0.02~~	ND 00J
3	252	2233	35:46	1	0.952	A*BB	50336.	0.767 NG	1.77	Yes 00J
4	252	2233	35:46	1	0.952	A*BB	~~50336.~~	~~0.884 NG~~	~~1.93~~	ND 00J
5	252	2327	37:16	1	0.992	A`BB	~~23252.~~	~~0.431 NG~~	~~1.11~~	ND 00J
6	276	2778	44:29	1	1.184	A*BB	~~12152.~~	~~0.556 NG~~	~~1.28~~	ND 00J
7	278	2795	44:46	1	1.191	A*BB	~~3200.~~	~~0.152 NG~~	~~0.35~~	ND 00J
8	276	2908	46:34	1	1.240	A BV	~~10154.~~	~~0.466 NG~~	~~1.08~~	ND 00J

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	37:33	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	34:27	1.00	0.917	1.00	0.01	50.00	0.001	5.718	0.00
3	35:48	1.00	0.953	1.00	0.77	50.00	0.032	2.053	0.02
4	35:53	1.00	0.956	1.00	0.83	50.00	0.032	1.888	0.02
5	37:17	1.00	0.993	1.00	0.48	50.00	0.015	1.514	0.01
6	44:24	1.00	1.182	1.00	0.56	50.00	0.008	0.741	0.01
7	44:42	1.00	1.190	1.00	0.15	50.00	0.002	0.658	0.00
8	46:28	1.00	1.238	1.00	0.47	50.00	0.006	0.682	0.01

DATE SUBMITTED: 8/11/87 SAMPLED 8/11/87 DUE 8/27/87 A- NO: 14558 1759

SAMPLED BY: CLIENT ✓ A-

QTY	MATRIX
2	AQ
	ORG
9	SOLID
	BIPHASE
	OTHER
11	TOTAL

VERBALS DUE

EXTRA COPIES

CUSTOMER: NJ DEP/DHWM/BSA

ADDRESS: 65 Prospect Street
Trenton, NJ 08625

CONTACT: Al Pleva

APPROVED: LAB MS 8/13 MKTG 8/13 SALES PERSON

PROJECT NAME:

App. Method: IFB, SW846/600, X085, Disposal, ECRA
Vol. Holding Times: AQ 5 7 14, Non-AQ 10 14 Days

QC On These Samples (Y) N
COC with Report (Y) N
Sampling Descript. Y (N)
Data Package (I) II N
Rept. on a dry weight basis (Y) N

Special Instruction/Concerns

Sample Disposition - Bottle

Qty.	Type	Received properly preserv'd YES	NO	DONE AT LAB	N/A
3	950 ml Amber Organic				
1	500 ml Amber H_2SO_4				
9	950 ml Amber unpres.				
1	500 ml Nalgene HNO_3				
1	500 ml Nalgene NaOH				
26	40 ml Vial Sets				
	Others:				
	Others:				

A-No.	Matrix A/O/S	Client Designation/Description
-1	S	BSA 0811745
-2	S	BSA 0811746
-3	S	BSA 0811747
-4	S	BSA 0811748
-5	S	BSA 0811749
-6	S	BSA 0811750
-7	S	BSA 0811751
-8	S	BSA 0811752
-9	S	BSA 0811753
-10	A	BSA 0811754 FIELD BLANK
-11	A	BSA 0811755 TRIP BLANK

GC and GC/MS

Org.: (PP) HSL TCLP

11	(Volatiles) ✓		
	Vols-Top 10		
11	(Vols-Top 15) ✓		
10	(Semivolatiles) ✓		
	AE		
	BN		
	SVOA Top 20		
10	(SVOA Top 25) ✓		
10	(PCBs) ✓		
10	(PP-Pest) ✓		
	SDW Pest/Herb		
	PHC-GC		
	AC & AC		
	Gen. FID		

Metals

10	(Prep) ✓
10	(PP MET) ✓
	RCRA
	HSL
	SB
	AS
	BA
	BE
	CD
	CR
	CU
	FE
	PB
	MG
	MN
	HG
	NI
	SE
	AG
	TL
	ZN

General Methods

	PHC-IR
10	(CN-D) ✓
10	(PHEN) ✓
	ALKAL
	ASH
	BOD
	BS+W
	BTU
	CHLORIDE
	CHROME-6
	COD
	COLOR
	CN-A
	FLUORIDE
	HARDNESS
	H_2O-DS
	NITRATE
	NH_3-D
	O + G
	PO_4
	SO_4
	SP. COND

	SP. GRAV
	SULFIDE
	TDS
	TKN
	TOC
	T PHOS
9	(TS) #1-9 ✓
	TSS
	T SUL
	TURB
	TVS
	T Coli-MF
	F Coli-MF

RCRA Anal.

	Flashpt.
	pH
	Reactivity
	EP Proc.
	TCLP Proc.

Other Analysis

1780

Form DEP-060
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD WITH SHUTTLE

Use One Form for Each Sample — *Shaded Areas for DEP Field Use Only*

NAME OF UNIT AND ADDRESS: DHWM / BPA 05 Prospect ST, Trenton NJ

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name ____ Title ____ Agency ____

Name ____ Title ____ Agency ____

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle: __/__/__ | Military Time: | Laboratory Affixed Sample Shuttle Seal No.:

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample:
Name: C Whittaker Title: HSMS IV
Name: R Gervasio Title: S.E.C
Name: ____ Title: ____

Date Laboratory Sample Shuttle Seal No.: 0880 A / 0881 B | Broken: 8/11/87 | Time (Mil) Seal Broken and Sampling Begun: 1040

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA 081745	1 Glass	1000 mL	Soil #1
	2 Glass	40 mL	

LAB CONTROL NO.: ____

Cooler #3

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8/11/87 | Military Time: 1430 | Field Affixed Sample Shuttle Seal No.: 0880 B / 0881 B

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample: Name ____ Title ____

Field Sample Seal No. ____ | Date Broken: __/__/__ | Military Time Seal Broken ____

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
R Gervasio	Bernadette Fini	8/11/87	1500	Del to Lab
Bernadette Fini	Steven M. Wilcox	8/14/87	1630	VOA Prep
Steven M. Wilcox	Bernadette Fini	8/14/87	1700	Storage
Steven M. Wilcox	[illegible]	8/14/87	1705	VOA Extract
Bernadette Fini	Lisa A. Stofel	8/17/87	0810	VOA Run
Lisa A. Stofel	Bernadette Fini	8/17/87	1600	Storage
Bernadette Fini	Anthony Cavalieri	8/18/87	1701	AE/BN & Pest/PCB Prep
Anthony Cavalieri	Bernadette Fini	8/19/87	0110	Storage
Bernadette Fini	Paula D. McClatchie	8/19/87	1454	TS
Paula D. McClatchie	Bernadette Fini	8/19/87	1534	Storage
Anthony Cavalieri	Susan Yost	8/19/87	2255	AE/BN Extract
Anthony Cavalieri	Judith A. Crone	8/20/87	0815	Pest/PCB Extract
Bernadette Fini	Paula D. McClatchie	8/21/87	0833	TS Redo
Paula D. McClatchie	Bernadette Fini	8/21/87	1030	Storage
Bernadette Fini	Norman F. Hyer	8/22/87	2050	Metals Prep
Norman F. Hyer	Bernadette Fini	8/22/87	2200	Storage

COPIES: Gold - Container/Shuttle Preparation Receipt — Pink - Field Sampler Receipt

1780

1761

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
Norman L Hayes	Tommy Welch	8/22/87	2240	METALS Extract
Bernadette Fini	× Anthony Casalino	8/24/87	1622	AE/BN Reprep
× Anthony Casalino	Bernadette Fini	8/25/87	0044	Storage
× Anthony Casalino	Debora Ann Vogt	8/25/87	0900	AE/BN Extract
Bernadette Fini	Edith Green	8/28/87	0210	CN-D
Edith Green	Bernadette Fini	8/28/87	0800	STORAGE
Bernadette Fini	Glenn Sidler	8/31/87	0803	Phenol
Glenn Sidler	Bernadette Fini	8/31/87	1602	STORAGE

1762

Form DEP-060
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD WITH SHUTTLE

Use One Form for Each Sample — *Shaded Areas for DEP Field Use Only*

NAME OF UNIT AND ADDRESS: DHLUM/BPA, 65 Prospect ST, Trenton NJ 08618

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	Title	Agency
Name	Title	Agency

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle: —/—/— | Military Time | Laboratory Affixed Sample Shuttle Seal No.

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample:
Name C. Whitaker Title HSMS IV
Name R Gervase Title S.E.T
Name E. Gavin Title HSMS

Date Laboratory Sample Shuttle Seal No. 0880A 0881A — Broken 8/11/87 — Time (Mil) Seal Broken and Sampling Begun 1040

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA0811746	1 glass	1 l	Soil #2
	2 glass	40 ml	

LAB CONTROL NO.: _____

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8/11/87 — Military Time: 1430 — Field Affixed Sample Shuttle Seal No. 0880B 0881B

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample: Name — Title

Field Sample Seal No. — Date Broken —/—/— — Military Time Seal Broken

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
R Gervase	Bernadette Fini	8/11/87	1500	Del to Lab
Bernadette Fini	Steve M. Wilcox	8/14/87	1630	VOA Prep
Steve M. Wilcox	Bernadette Fini	8/14/87	1700	Storage
Steve M. Wilcox	[illegible]	8/14/87	1705	VOA Extract
Bernadette Fini	Lisa A. Stefel	8/17/87	0810	VOA Run
Lisa A. Stefel	Bernadette Fini	8/17/87	1600	Storage
Bernadette Fini	Anthony Casalino	8/18/87	1701	AE/BN & Pest/PCB Prep
Anthony Casalino	Bernadette Fini	8/18/87	0110	Storage
Bernadette Fini	Paula D. McPhatter	8/19/87	1454	TS
Paula D. McPhatter	Bernadette Fini	8/19/87	1534	Storage
Anthony Casalino	Susan Hoy	8/19/87	2255	AE/BN Extract
Anthony Casalino	Judith A. Corpora	8/20/87	0815	Pest/PCB Extract
Bernadette Fini	Paula D. McPhatter	8/21/87	0833	TS Redo
Paula D. McPhatter	Bernadette Fini	8/21/87	1030	Storage
Bernadette Fini	[illegible]	8/22/87	2050	Metals Prep.
[illegible]	Bernadette Fini	8/22/87	2200	Storage

COPIES: Gold - Container/Shuttle Preparation Receipt; Yellow - Analyst Chain of Custody; Pink - Field Sampler Receipt; White - Sample Custodians Chain of Custody

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[illegible]	Darwin Weller	8/22/87	2240	Metals Extract
Bernadette Fini	Anthony Casalino	8/24/87	1622	AE IBN Reprep
Anthony Casalino	Bernadette Fini	8/25/87	0044	Storage
Anthony Casalino	Debora Ann Vogt	8/25/87	0900	AE IBN Extract
Bernadette Fini	Edith Green	8/25/87	0210	CN-D
Edith Green	Bernadette Fini	8/28/87	0800	Storage
Bernadette Fini	Glenn Sidler	8/31/87	0803	Phenol
Glenn Sidler	Bernadette Fini	8/31/87	1620	Storage

1764

Form DEP-060
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD WITH SHUTTLE

Use One Form for Each Sample — *Shaded Areas for DEP Field Use Only*

NAME OF UNIT AND ADDRESS: DHWM/BPA, 65 Prospect ST, Trenton NJ 08618

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	Title	Agency

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle: __/__/__ | Military Time: | Laboratory Affixed Sample Shuttle Seal No.:

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample:

Name	Title
E Gavin	HSMS IV
R Gervasio	SEIT
C Whittaker	HSMS IV

Date Laboratory Sample Shuttle Seal No.: 0880A 0881A — Broken: 8/11/87 — Time (Mil) Seal Broken and Sampling Begun: 1040

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA0811747	1- Glass	1-liter	Soil #3
	2 glass	40 ml	
LAB CONTROL NO.			Cooler #3

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8/11/87 — Military Time: 1430 — Field Affixed Sample Shuttle Seal No.: 0880B 0881B

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample — Name: — Title:

Field Sample Seal No.: — Date Broken: __/__/__ — Military Time Seal Broken:

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
R Gervasio	Bernadette Fini	8/11/87	1500	Del to Lab
Bernadette Fini	Steven M Wilcox	8/14/87	1630	VOA Prep.
Steven M. Wilcox	Bernadette Fini	8/14/87	1700	STORAGE
Steven M. Wilcox	[illegible]	8/14/87	1705	VOA Extract
Bernadette Fini	Lisa A. Stiefel	8/17/87	0810	VOA RUN
Lisa A. Stiefel	Bernadette Fini	8/17/87	1600	STORAGE
Bernadette Fini	Anthony Casalino	8/18/87	1701	AE/BN & PEST/PCB Prep.
Anthony Casalino	Bernadette Fini	8/18/87	0110	STORAGE
Bernadette Fini	Carla D McPhatter	8/19/87	1454	TS
Carla D McPhatter	Bernadette Fini	8/19/87	1534	Storage
Anthony Casalino	Susan Gorz	8/19/87	2255	AE/BN Extract
Anthony Casalino	Judith A Corona	8/20/87	0815	PEST/PCB Extract
Bernadette Fini	Carla D McPhatter	8/21/87	0833	TS Redo
Carla D McPhatter	Bernadette Fini	8/21/87	1030	Storage
Bernadette Fini	Norman T. Hayes	8/22/87	2050	METALS Prep
Norman T. Hayes	Bernadette Fini	8/22/87	2200	Storage

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Yellow - Analyst Chain of Custody* *Pink - Field Sampler Receipt* *White - Sample Custodians Chain of Custody*

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[illegible]	[illegible]	8/22/87	2240	Metals Extract.
Bernadette Fini	[illegible]	8/24/87	1622	AE/BN RePrep
[illegible]	Bernadette Fini	8/25/87	0044	Storage
[illegible]	[illegible]	8/25/87	0900	AE/BN Extract
Bernadette Fini	Edith Thorn	8/28/87	0210	CN-D
Edith Thorn	Bernadette Fini	8/28/87	0800	Storage
Bernadette Fini	Glenn Miller	8/31/87	0803	Phenol
Glenn Miller	Bernadette Fini	8/31/87	1620	Storage

1766

Form DEP-060
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD WITH SHUTTLE

Use One Form for Each Sample — *Shaded Areas for DEP Field Use Only*

NAME OF UNIT AND ADDRESS: DHWM/BPA, 65 Prospect St Trenton NJ 08618

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	Title	Agency
Name	Title	Agency

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle: __/__/__ | Military Time | Laboratory Affixed Sample Shuttle Seal No.

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample:
Name R Gervasio Title SP Tch
Name R Nichols Title Sr Tch
Name D Gray Title HSMS II

Date Laboratory Sample Shuttle Seal No. 0880A 0881A Broken 8/11/87 | Time (Mil) Seal Broken and Sampling Begun 1040

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA0811748	1 Glass	1 Ltr	Soil #4
	2 Glass	40 mL	

LAB CONTROL NO.

Cooler #3

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8/11/87 | Military Time 1430 | Field Affixed Sample Shuttle Seal No. 0880B 0881B

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample: Name Title

Field Sample Seal No. | Date Broken __/__/__ | Military Time Seal Broken

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
R Gervasio	Bernadette Fini	8/11/87	1500	Del to Lab
Bernadette Fini	Steven M. Wilcox	8/14/87	1630	VOA PREP
Steven M. Wilcox	Bernadette Fini	8/14/87	1700	STORAGE
Steven M. Wilcox	[illegible]	8/14/87	1705	VOA EXTRACT
Bernadette Fini	Lisa A. Shelor	8/17/87	0810	VOA RUN
Lisa A. Shelor	Bernadette Fini	8/17/87	1600	STORAGE
Bernadette Fini	Anthony Casalea	8/18/87	1701	AE/BN & PEST/PCB PREP
Anthony Casalea	Bernadette Fini	8/18/87	0110	STORAGE
Bernadette Fini	Paula D. McShatter	8/19/87	1454	TS
Paula D. McShatter	Bernadette Fini	8/19/87	1534	STORAGE
Anthony Casalea	Susan Yom	8/19/87	2255	AE/BN Extract
Anthony Casalea	Judith A. Orgne	8/20/87	0815	PEST/PCB Extract
Bernadette Fini	Paula D. McShatter	8/21/87	0833	TS Redo
Paula D. McShatter	Bernadette Fini	8/21/87	1030	STORAGE
Bernadette Fini	[illegible]	8/22/87	2050	Metals Prep.
[illegible]	Bernadette Fini	8/22/87	2200	STORAGE

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Pink - Field Sampler Receipt*
Yellow - Analyst Chain of Custody *White - Sample Custodians Chain of Custody*

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[illegible]	Tommy Wells	8/22/87	2240	metals Extracts
Bernadette Fini	Anthony Casalino	8/24/87	1632	AE/BN Reprep
Anthony Casalino	Bernadette Fini	8/25/87	0044	Storage
Anthony Casalino	Delvera Ann Vogt	8/25/87	0900	AE/BN Extract
Bernadette Fini	Edith Green	8/25/87	0210	CN-D
Edith Green	Bernadette Fini	8/25/87	0800	Storage
Bernadette Fini	Glenn Gilles	8/31/87	0803	Phenol
Glenn Gilles	Bernadette Fini	8/31/87	1620	Storage

1768

Form DEP-060
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD WITH SHUTTLE

Use One Form for Each Sample — *Shaded Areas for DEP Field Use Only*

NAME OF UNIT AND ADDRESS: DHWM / BPA, 65 Prospect ST, Trenton NJ 08618

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	Title	Agency
Name	Title	Agency

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle: —/—/— | Military Time | Laboratory Affixed Sample Shuttle Seal No.

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample:
Name R Gervasio — Title Super Tech
Name R Nichols — Title Sr Tech
Name D Gray — Title Hsrs II

Date Laboratory Sample Shuttle Seal No. 0881A 0880A — Broken 8/11/87 — Time (Mil) Seal Broken and Sampling Begun 1040

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA 011749	2- Glass 1- Glass	40 ml 1- Liter	Soil AS

LAB CONTROL NO. _____

Cooler #3 C

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8/11/87 | Military Time | Field Affixed Sample Shuttle Seal No. 0881B 0880B

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample — Name — Title

Field Sample Seal No. 0881B 0880B | Date Broken —/—/— | Military Time Seal Broken

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
R Gervasio	Bernadette Fini	8/11/87	1500	Del to Lab
Bernadette Fini	Steve M. Wilcox	8/14/87	1630	VOA Prep
Steve M. Wilcox	Bernadette Fini	8/14/87	1700	Storage
Steve M. Wilcox	[illegible]	8/14/87	1705	VOA Extract
Bernadette Fini	Lisa A. Stufel	8/17/87	0810	VOA Run
Lisa A. Stufel	Bernadette Fini	8/17/87	1600	Storage
Bernadette Fini	Anthony Cavallo	8/18/87	1701	AE/BN & Pest/PCB Prep
Anthony Cavallo	Bernadette Fini	8/18/87	0110	Storage
Bernadette Fini	Lisa A. Stufel	8/19/87	1037	VOA Run
Lisa A. Stufel	Bernadette Fini	8/19/87	1305	Storage
Bernadette Fini	Carla D. McPhatter	8/19/87	1454	TS
Carla D. McPhatter	Bernadette Fini	8/19/87	1534	Storage
Anthony Cavallo	Susan Gay	8/19/87	2255	AE/BN Extract
Anthony Cavallo	Judith A. Crane	8/20/87	0815	Pest/PCB Extract
Bernadette Fini	Carla D. McPhatter	8/21/87	0833	TS Redo
Carla D. McPhatter	Bernadette Fini	8/21/87	1030	Storage

COPIES: Gold - Container/Shuttle Preparation Receipt; Yellow - Analyst Chain of Custody; Pink - Field Sampler Receipt; White - Sample Custodians Chain of Custody

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
Bernadette Fini	Norman T. Hayes	8/22/87	2050	Metals Prep
Norman T. Hayes	Bernadette Fini	8/22/87	2200	Storage
Norman T. Hayes	Tommy Weil	8/22/87	2240	Metals Extract
Bernadette Fini	× Anthony Casales	8/24/87	1622	AE/BN Re Prep
× Anthony Casales	Bernadette Fini	8/25/87	0044	Storage
× Anthony Casales	DeLoya Ann Vogt	8/25/87	0900	AE/BN Extract
Bernadette Fini	Edith Green	8/25/87	0210	CN-D
Edith Green	Bernadette Fini	8/25/87	0800	Storage
Bernadette Fini	Glenn Siller	8/31/87	0803	Phenol
Glenn Siller	Bernadette Fini	8/31/87	1620	Storage

Form DEP-060
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD WITH SHUTTLE

Use One Form for Each Sample

Shaded Areas for DEP Field Use Only

NAME OF UNIT AND ADDRESS: DHWM / BPA, 6S Prospect ST Trenton NJ 08618

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	Title	Agency
Name	Title	Agency

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle: ___/___/___ | Military Time | Laboratory Affixed Sample Shuttle Seal No.

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample:
Name: Dick Gervasio — Title: S.E.T.
Name: Dennis Gray — Title: WSMS IV
Name: — Title:

Date Laboratory Sample Shuttle Seal No.: 0880A / 0881A — Broken: 8/11/87 — Time (Mil) Seal Broken and Sampling Begun: 1640

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA 0811750	1 - Gloss	1 - 1L	Soil #6
	2 Glass	cond	
			Cobbler #3

LAB CONTROL NO.: ___

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8/11/87 — Military Time: 1430 — Field Affixed Sample Shuttle Seal No.: 0880B / 0881B

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample: Name ___ Title ___

Field Sample Seal No. | Date Broken ___/___/___ | Military Time Seal Broken

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
R Gervasio	Bernadette Finn	8/11/87	1500	Del to Lab
Bernadette Finn	Steve Milliken	8/14/87	1630	VOA Prep
Steve Milliken	Bernadette Finn	8/14/87	1700	STORAGE
Steve Milliken	[illegible]	8/14/87	1705	VOA Extract
Bernadette Finn	Brian A. Stufel	8/17/87	0810	VOA Run
Brian A. Stufel	Bernadette Finn	8/17/87	1600	STORAGE
Bernadette Finn	Anthony Cavallo	8/18/87	1701	AE/BN & Pest/PCB Prep
Anthony Cavallo	Bernadette Finn	8/19/87	0110	STORAGE
Bernadette Finn	Brian A. Stufel	8/19/87	1037	VOA Run
Brian A. Stufel	Bernadette Finn	8/19/87	1305	STORAGE
Bernadette Finn	Linda D. McKnatt	8/19/87	1454	TS
Linda D. McKnatt	Bernadette Finn	8/19/87	1534	STORAGE
Bernadette Finn	Bruce C. Shurell	8/19/87	1937	VOA Run
Bruce C. Shurell	Bernadette Finn	8/19/87	1945	STORAGE
Anthony Cavallo	Susan Goss	8/19/87	2255	AE/BN Extract
Anthony Cavallo	Judith A. Corona	8/20/87	0815	Pest/PCB Extract

COPIES: Gold - Container/Shuttle Preparation Receipt; Yellow - Analyst Chain of Custody; Pink - Field Sampler Receipt; White - Sample Custodians Chain of Custody

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
Bernadette Fini	Carl D McPhatt	8/21/87	0833	TS Redo
Carl D McPhatt	Bernadette Fini	8/21/87	1030	Storage
Bernadette Fini	Norman T Hyer	8/22/87	2050	Metals Prep
Norman T Hyer	Bernadette Fini	8/22/87	2200	Storage
Norman T Hyer	Tommy Wall	8/22/87	2250	Metals Extract
Bernadette Fini	Anthony Casales	8/24/87	1622	AE/BN Re Prep
Anthony Casales	Bernadette Fini	8/25/87	0040	Storage
Anthony Casales	Debora Ann Vogt	8/25/87	0900	AE/BN Extract
Bernadette Fini	Edith Green	8/25/87	0210	CN-D
Edith Green	Bernadette Fini	8/25/87	0800	Storage
Bernadette Fini	Glenn Gillis	8/31/87	0803	Phenol
Glenn Gillis	Bernadette Fini	8/31/87	1620	Storage

1772

Form DEP-060
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD WITH SHUTTLE

Use One Form for Each Sample — *Shaded Areas for DEP Field Use Only*

NAME OF UNIT AND ADDRESS: D Hunn / BPA 6J Prospect ST, Trenton NJ

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	Title	Agency
Name	Title	Agency

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle ___/___/___ | Military Time | Laboratory Affixed Sample Shuttle Seal No.

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample

Name	Title
Dick Gervasio	S.E.T.

Date Laboratory Sample Shuttle Seal No. 0880A 0881A Broken 8/11/87 | Time (Mil) Seal Broken and Sampling Begun 1040

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA 6811751	1 glass	1 l	Soil #7
	2 glass	40 ml.	
LAB CONTROL NO.			Cooler #3

Date Sampling Completed & Field Seal Affixed to Sample Shuttle 8/11/87 | Military Time 1430 | Field Affixed Sample Shuttle Seal No. 0880B 0881B

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample — Name — Title

Field Sample Seal No. | Date Broken ___/___/___ | Military Time Seal Broken

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
R Gervasio	Bernadette Fini	8/11/87	1500	Del to Lab
Bernadette Fini	Steve M. Walcot	8/14/87	1630	VOA BE ~~Storage~~ PREP
Steve M. Walcot	Bernadette Fini	8/14/87	1700	Storage
Steve M. Walcot	[illegible]	8/14/87	1705	VOA Extract
Bernadette Fini	Lisa A. Strefel	8/17/87	0810	VOA RUN
Lisa A. Strefel	Bernadette Fini	8/17/87	1600	Storage
Bernadette Fini	Anthony Casalino	8/18/87	1701	AE/BN & PEST/PCB Prep
Anthony Casalino	Bernadette Fini	8/19/87	0110	Storage
Bernadette Fini	Lisa A. Strefel	8/19/87	1937	VOA RUN
Lisa A. Strefel	Bernadette Fini	8/19/87	1305	Storage
Bernadette Fini	Carla D McPhatter	8/19/87	1454	TS
Carla D McPhatter	Bernadette Fini	8/19/87	1534	Storage
Anthony Casalino	Susan Dong	8/19/87	2255	AE/BN Extract
Anthony Casalino	Judith A. Corona	8/20/87	0815	PEST/PCB Extract
Bernadette Fini	Carla D McPhatter	8/21/87	0833	TS Redo
Carla D McPhatter	Bernadette Fini	8/21/87	1030	Storage

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Yellow - Analyst Chain of Custody* *Pink - Field Sampler Receipt* *White - Sample Custodians Chain of Custody*

1772

17

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
Bernadette Fini	Norman Z Hyer	8/22/87	2050	Metals Prep
Norman Z Hyer	Bernadette Fini	8/22/87	2200	STORAGE
Norman Z Hyer	Jimmy Weller	8/22/87	2250	Metals Extract
Bernadette Fini	× Anthony Casalino	8/24/87	1622	AE IBN Re Prep
× Anthony Casalino	Bernadette Fini	8/25/87	0044	Storage
× Anthony Casalino	Deborah Ann Vogt	8/25/87	0900	AE IBN Extract
Bernadette Fini	Edith Green	8/28/87	0210	CN-D
Edith Green	Bernadette Fini	8/28/87	0800	Storage
Bernadette Fini	Glenn Miller	8/31/87	0803	Phenol
Glenn Miller	Bernadette Fini	8/31/87	1620	STORAGE

1774

Form DEP-060
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD WITH SHUTTLE

Use One Form for Each Sample — *Shaded Areas for DEP Field Use Only*

NAME OF UNIT AND ADDRESS: Datum / BPA 6E Prospect St Trenton NJ 08618

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	Title	Agency
Name	Title	Agency

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle: __/__/__ | Military Time | Laboratory Affixed Sample Shuttle Seal No.

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample:
Name Ray Nichols — Title Sr. Env Spec
Name Richard Gervasio — Title SET
Name Dennis Gray — Title HSM ~~S~~ TV

Date Laboratory Sample Shuttle Seal No. 0881A 0880A — Broken 8/11/87 — Time (Mil) Seal Broken and Sampling Begun 1040

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA 081752	1 glass	1 l	Soil #8
	2 glass	40 ml.	
			Cooler #3

LAB CONTROL NO. _____

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8/11/87 — Military Time 1430 — Field Affixed Sample Shuttle Seal No. 0881B 0880B

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample — Name — Title

Field Sample Seal No. 0881B 0880B — Date Broken __/__/__ — Military Time Seal Broken

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
R Servas	Bernadette Fini	8/11/87	1500	Del to Lab
Bernadette Fini	Steve M Wilcox	8/14/87	1630	VOA Prep
Steve M Wilcox	Bernadette Fini	8/14/87	1700	STORAGE
Steve M Wilcox	[illegible]	8/14/87	1705	VOA Extract
Bernadette Fini	[illegible]	8/17/87	0810	VOA Run
[illegible]	Bernadette Fini	8/17/87	1600	STORAGE
Bernadette Fini	Anthony Casella	8/18/87	1701	AE/BN & Pest/PCB Prep
Anthony Casella	Bernadette Fini	8/19/87	0110	STORAGE
Bernadette Fini	Carla D McWhatter	8/19/87	1454	TS
Carla D McWhatter	Bernadette Fini	8/19/87	1534	STORAGE
x Anthony Casella	[illegible]	8/19/87	2255	AE/BN Extract
x Anthony Casella	Judith A Conroy	8/20/87	0815	Pest/PCB Extract
Bernadette Fini	Carla D McWhatter	8/21/87	0833	TS Redo
Carla D McWhatter	Bernadette Fini	8/21/87	1030	STORAGE
Bernadette Fini	[illegible]	8/20/87	2050	Metals Prep
[illegible]	Bernadette Fini	8/22/87	2200	STORAGE

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Yellow - Analyst Chain of Custody* *Pink - Field Sampler Receipt* *White - Sample Custodians Chain of Custody*

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
[illegible]	Tommy Welch	8/22/87	2240	Metals Extract
Bernadette Fini	Anthony Casalino	8/24/87	1622	AE/BN Reprep
Anthony Casalino	Bernadette Fini	8/25/87	0044	Storage
Anthony Casalino	[illegible]	8/25/87	0900	AE/BN Extract
Bernadette Fini	Edith Green	8/25/87	0210	CN-D
Edith Green	Bernadette Fini	8/28/87	0800	Storage
Bernadette Fini	Glenn Sitler	8/31/87	0803	Phenol
Glenn Sitler	Bernadette Fini	8/31/87	1620	Storage

Form DEP-060
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD WITH SHUTTLE

Use One Form for Each Sample

Shaded Areas for DEP Field Use Only

NAME OF UNIT AND ADDRESS: DHHM/BPA 6C Prospect St, Trenton NJ 08618

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name _____ Title _____ Agency _____

Name _____ Title _____ Agency _____

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle: ___/___/___ | Military Time: | Laboratory Affixed Sample Shuttle Seal No.:

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample:
Name R Gervasio Title Sup Tch
Name R Nichols Title Sr Tch
Name D Gray Title HSRS II

Date Laboratory Sample Shuttle Seal No.: 0880A / 0881A | Broken: 8/11/87 | Time (Mil) Seal Broken and Sampling Begun: 1040

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA081753	1 1 Ltr. Glass	1 Lt	Background Soil #9
	2 Glass	40 ML	

LAB CONTROL NO. _____

Cooler #3

Date Sampling Completed & Field Seal Affixed to Sample Shuttle: 8/11/87 | Military Time: 1430 | Field Affixed Sample Shuttle Seal No.: 0880B / 0881B

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample: Name _____ Title _____

Field Sample Seal No. _____ | Date Broken ___/___/___ | Military Time Seal Broken _____

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
R Gervasio	Bernadette Fini	8/11/87	1500	Del to lab
Bernadette Fini	Lisa M. Wilson	8/14/87	1630	VOA Prep
Lisa M. Wilson	Bernadette Fini	8/14/87	1700	Storage
Steven M. Wilson	Bernadette Fini	8/14/87	1705	VOA Extract
Bernadette Fini	Lisa A. Shiels	8/17/87	0810	VOA Run
Lisa A. Shiels	Bernadette Fini	8/17/87	1600	Storage
Bernadette Fini	Anthony Casalino	8/18/87	1701	AE/BN & Pest/PCB Prep
Anthony Casalino	Bernadette Fini	8/19/87	0110	Storage
Bernadette Fini	Lisa A. Shiels	8/19/87	1037	VOA Run
Lisa A. Shiels	Bernadette Fini	8/19/87	1305	Storage
Bernadette Fini	Carla D. McBattle	8/19/87	1454	TS
Carla D. McBattle	Bernadette Fini	8/19/87	1534	Storage
Bernadette Fini	Lisa C. Shiels	8/19/87	2145	VOA Run
Lisa C. Shiels	Bernadette Fini	8/19/87	2155	Storage
Anthony Casalino	Susan Gross	8/19/87	2255	AE/BN Extract
Anthony Casalino	Judith A. Cosenza	8/20/87	0815	Pest/PCB Extract

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Yellow - Analyst Chain of Custody* *Pink - Field Sampler Receipt* *White - Sample Custodians Chain of Custody*

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTOD
Bernadette Fini	Carla D McChatter	8/21/87	0833	TS Redo
Carla D McChatter	Bernadette Fini	8/21/87	1030	Storage
Bernadette Fini	[illegible]	8/22/87	2050	Metals Prep
[illegible]	Bernadette Fini	8/22/87	2200	Storage
[illegible]	Tammy Welch	8/22/87	2250	Metals Extract
Bernadette Fini	Anthony Casalino	8/24/87	1622	AE/BN Deprep
Anthony Casalino	Bernadette Fini	8/25/87	0044	Storage
Anthony Casalino	Delvora Ann Voigt	8/25/87	0900	AE/BN Extract
Bernadette Fini	Edith Green	8/25/87	0210	CN-D
Edith Green	Bernadette Fini	8/25/87	0800	Storage
Bernadette Fini	Glenn Sillers	8/31/87	0803	Phenol
Glenn Sillers	Bernadette Fini	8/31/87	1620	Storage

177

Form DEP-060
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD WITH SHUTTLE

Use One Form for Each Sample

Shaded Areas for DEP Field Use Only

NAME OF UNIT AND ADDRESS: DHWM/BPA 65 Prospect St, Trenton NJ 08618

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	Title	Agency

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle ___/___/___ | Military Time | Laboratory Affixed Sample Shuttle Seal No.

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample

Name	Title
R Gervasio	S.E.T
R Nichols	Sr Spec.
D. Gray	Hsms IV

Date Laboratory Sample Shuttle Seal No. 0883A 0884A Broken 8/11/87 | Time (Mil) Seal Broken and Sampling Begun 1035

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA 0811754	3 Glass	1-1 ltr	Field Blank
	1- Glass	500 ml	
	2- plastic	500 ml	
	4 glass	4 ml	

LAB CONTROL NO.

Date Sampling Completed & Field Seal Affixed to Sample Shuttle 8/11/87 | Military Time 1430 | Field Affixed Sample Shuttle Seal No. 0884B 0884B

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Name | Title

Field Sample Seal No. | Date Broken ___/___/___ | Military Time Seal Broken

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
R Gervasio	Bernadette Fini	8/11/87	1500	Del to Lab
Bernadette Fini	[illegible]	8/12/87	0830	Via Storage
Bernadette Fini	Anthony Casalena	8/18/87	1701	AE/BN & Pest/PCB Prep - Sample deplete
Anthony Casalena	Susan Gors	8/19/87	1800	AE/BN Extract
Anthony Casalena	Judith A. Corona	8/19/87	1800	Pest/PCB Extract
Bernadette Fini	[illegible]	8/22/87	2050	Metals Prep
[illegible]	Bernadette Fini	8/22/87	2200	Storage
[illegible]	Tommy Weber	8/22/87	2250	Metals Extract
Bernadette Fini	Edith Green	8/25/87	0210	CN-D
Edith Green	Bernadette Fini	8/25/87	0800	STORAGE
Bernadette Fini	Glenn Sidler	8/31/87	0803	Phenol
Glenn Sidler	Bernadette Fini	8/31/87	1630	STORAGE

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Yellow - Analyst Chain of Custody* *Pink - Field Sampler Receipt* *White - Sample Custodians Chain of Custody*

1779

Form DEP-060
10/86

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

CHAIN OF CUSTODY RECORD WITH SHUTTLE

Use One Form for Each Sample *Shaded Areas for DEP Field Use Only*

NAME OF UNIT AND ADDRESS: DHWM / BPA 65 Prospect St Trenton NJ 08618

Name of Person(s) Preparing Container(s) for Sample Shuttle

Name	Title	Agency
Name	Title	Agency

Date above-mentioned Person(s) Placed Container(s) in Sample Shuttle	Military Time	Laboratory Affixed Sample Shuttle Seal No.
___/___/___		

Name of Person(s) Breaking Laboratory Seal on Sample Shuttle and Taking Field Sample

Name	Title
R Gervasio	S.E.T

Date Laboratory Sample Shuttle Seal No. 0884-A 0883A Broken 8/11/87

Time (Mil) Seal Broken and Sampling Begun 1035

FIELD SAMPLE NUMBER	CONTAINER NUMBER(S)	VOLUME OF CONTAINERS	DESCRIPTION OF SAMPLE
BSA 0811755	4 - Glass	40 ml	Trip Blank

LAB CONTROL NO.

Date Sampling Completed & Field Seal Affixed to Sample Shuttle 8/11/87 Military Time 1430

Field Affixed Sample Shuttle Seal No. 0884B 0883B

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample Name Title

Field Sample Seal No. Date Broken ___/___/___ Military Time Seal Broken

SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	DATE	TIME	REASON FOR CHANGE OF CUSTODY
R Gervasio	Bernadette Fini	8/11/87	1500	Del to Lab
Bernadette Fini	[illegible]	8/12/87	0830	Voa Storage

COPIES: *Gold - Container/Shuttle Preparation Receipt* *Pink - Field Sampler Receipt*
Yellow - Analyst Chain of Custody *White - Sample Custodians Chain of Custody*